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1.325 safe-stable-stringify 1.1.1
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1.326 logform 2.3.0
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1.327 queue 1.1.0
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1.328 modern-go-concurrent 0.0.0-20180306012644-bacd9c7ef1dd

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1.329 go-readline 0.0.0-20180603132655-2972be24d48e

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1.332 oklog-run 1.1.0

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1.333 godbus 5.0.4

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1.334 oneofone-xxhash 1.2.8

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1.337 google-go-cmp 0.5.5

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1.338 spf13-pflag 1.0.5

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1.339 x-text 0.3.7

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1.347 azure-pipeline-go 0.2.3

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1.348 jaeger-lib 2.4.1+incompatible

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1.356 h2non-go-is-svg 0.0.0-20160927212452-35e8c4b0612c

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1.357 go-testing-interface 1.14.1

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1.381 texttheater-golang-levenshtein 1.0.1

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1.383 fluent-bit-go 0.0.0-20190925192703-ea13c021720c

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1.384 cyberdelia-go-metrics-graphite 0.0.0-20161219230853-39f87cc3b432

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1.399 scrub 2.6.1-1build2

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1.400 libjte2 1.22-3build1

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1.417 coredns-caddy 1.1.1
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1.444 hashicorp-golang-lru 0.5.4

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1.477 github.com/clbanning/mxj 1.8.4

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1.478 go-flowrate 0.0.0-20140419014527-cca7078d478f

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1.479 github.com/moby/locker 1.0.1

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1.480 logr 1.2.0

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1.481 sigs.k8s.io/json 0.0.0-20211020170558-c049b76a60c6

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1.482 log4j-api 2.17.1

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1.483 log4j-to-slf4j 2.17.1

1.483.1 Available under license

1.484 python-requests 2.27.1

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1.485 github.com/eapache/channels 1.1.0

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1.486 go-playground-universal-translator 0.0.0-20170327191703-71201497bace

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1.487 github.com/makenowjust/heredoc 1.0.0

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1.488 go-debug 1.1.0

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1.489 urllib3 1.26.8

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1.490 go-grpc-prometheus 1.2.1-0.20191002090509-6af20e3a5340

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1.491 tcl-expect 5.45.4-2build1

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1.492 github.com/mitchellh/hashstructure/v2 2.0.2

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1.493 mwitkow-go-conntrack 0.0.0-20190716064945-2f068394615f

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1.494 google-apis 1.4.1

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1.495 xorm.io/xorm 0.8.2

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1.496 cheekybits/genny 1.0.0

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1.497 gopkg.in/mail.v2 2.3.1

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1.498 jessevdk-go-flags 1.5.0

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1.500 xorm.io/core 0.7.3

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1.501 xorm.io/builder 0.3.6

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1.502 go-diff 1.1.0

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1.503 emirpasic/gods 1.12.0

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1.508 go-runewidth 0.0.13

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1.509 chokidar 3.5.3

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1.510 pault.ag/go/sniff 0.0.0-20200207005214-cf7e4d167732

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1.511 github.com/mitchellh/go-ps 1.0.0

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1.512 gopkg.in/go-playground/pool.v3 3.1.1

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1.532 github.com/alecthomas/kingpin 1.3.8-0.20210301060133-17f40c25f497

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1.578 hashicorp-serf 0.9.6

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1.584 python-setuptools 61.3.0

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1.585 google-golang-org-appengine 1.6.7

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1.586 github.com/godbus/dbus/v5 5.0.4

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1.587 migrate 4.7.0

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1.588 golang-glog 1.0.0

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1.589 shibumi-go-pathspec 1.3.0

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1.590 cavium-liquidio 3.1.2

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1.591 opencontainers-runtime-spec 1.0.2

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1.592 gopkg.in/mcuadros/go-syslog.v2 2.3.0

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1.593 minimatch 4.2.1

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1.594 requests-unixsocket 0.3.0

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1.595 github.com/h2non/go-is-svg 0.0.0-20160927212452-35e8c4b0612c

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1.596 github.com/cockroachdb/redact 1.1.3

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1.597 sprig 2.22.0+incompatible

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1.601 godbus 5.1.0

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1.602 treeprint 1.1.0

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1.603 github.com/thanos-community/galaxycache 0.0.0-20211122094458-3a32041a1f1e

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1.604 mmap-go 1.1.0

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1.605 kubernetes 23.6.0

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1.619 gorilla-websocket 1.4.2

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1.620 levenshtein 1.1.1

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1.622 go-sysconf 0.3.10

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1.623 numcpus 0.4.0

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1.624 serf 0.9.6

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1.625 open-ldap 2.4.45+dfsg-1ubuntu1.10

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1.630 globintersection 0.1.0

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1.631 go-redis-redis 8.11.5

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1.632 go-wordwrap 1.0.1

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1.633 libsemanage2 3.3-1build2

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1.634 gmp 6.2.1+dfsg-3ubuntu1

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1.636 hostname 3.23ubuntu2

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1.637 xz 5.2.5-2ubuntu1

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1.638 berkeley-db 5.3.28+dfsg1-0.8ubuntu3

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1.639 base-passwd 3.5.52build1

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1.640 libsepol 3.3-1build1

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1.642 libnettle6 3.7.3-1build2

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1.644 init-system-helpers 1.62

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1.645 libseccomp 2.5.3-2ubuntu2

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1.648 libcap-ng 0.7.9-2.2build3

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1.651 libgcrypt 1.9.4-3ubuntu3

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1.652 pcre 8.39-13ubuntu0.22.04.1

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1.666 debconf 1.5.79ubuntu1

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1.668 cdebconf 0.261ubuntu1

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1.669 lsb 11.1.0ubuntu4

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1.670 libgpg-error 1.43-3

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1.710 python-certifi 2020.06.20

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1.711 listenablefuture 9999.0-empty-to-avoid-conflict-with-guava

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1.718 go.starlark.net 0.0.0-20220328144851-d1966c6b9fcd

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1.727 libasounddata 1.2.6.1-1ubuntu1

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1.755 github.com/go-kit/log 0.2.1

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1.756 libtirpc 1.3.2-2ubuntu0.1

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1.793 certificate-transparency-go 1.1.3

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1.794 githubcomgoopenapistrfmt 0.21.3

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1.797 libsemanage-common 3.4-1

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1.798 jetty-util 9.4.48.v20220622

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1.814 dbus-glib 0.112-2build1

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1.1084 github.com/exponent-io/jsonpath 0.0.0-20210407135951-1de76d718b3f

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1.1085 diskv 2.0.1+incompatible

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1.1086 github.com/dgraph-io/ristretto 0.1.1

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1.1087 jbig-kit 2.1-3.1ubuntu0.22.04.1

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1.2204 open-vm-tools 12.3.5-3~ubuntu0.22.04.1

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1.2226 github.com/go-ldap/ldap/v3 3.4.6

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1.2233 github.com/rivo/uniseg 0.4.7

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1.2564 github.com/dennwc/varint 1.0.0

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1.2565 githubcomgoopenapijsonpointer 0.20.0

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1.2566 coreos-go-semver 0.3.1

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1.2567 common 0.46.0

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1.2568 github.com/golang-sql/sqlexp 0.1.0

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1.2569 github.com/golang-sql/civil 0.0.0-20220223132316-b832511892a9

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1.2573 github.com/cloudflare/circl 1.3.7

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1.2574 github.com/tklauser/numcpus 0.6.1

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1.2584 go-autorest 0.9.23

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1.2585 go.uber.org/atomi 1.11.0

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1.2586 github.com/fatih/camelcase 1.0.0

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1.2587 gopkgin 0.9.1

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1.2588 github.com/zeebo/xxh3 1.0.2

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1.2589 github.com/mdlayher/socket 0.4.1

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1.2590 gopkg.in/ini.v1 1.67.0

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1.2616 github.com/alecthomas/kingpin/v2 2.4.0

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1.2846 github.com/azure/azure-sdk-for-go/sdk/storage/azblob 1.3.0

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1.2851 github.com/dennwc/btrfs 0.0.0-20240418142341-0167142bde7a

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1.3231 github.com/cilium/ebpf 0.16.0

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1.3232 go.mongodb.org-mongo-driver 1.17.1

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1.3288 github.com/ovh/go-ovh 1.6.0

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1.3292 go.opentelemetry.io/otel/sdk 1.29.0

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1.3293 go.opentelemetry.io/otel/exporters/otlp/otlptrace/otlptracehttp 1.29.0

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1.3294 githubcommiekgdns 1.1.62

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1.3295 github.com/grpc-ecosystem/grpc-gateway/v2 2.22.0

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1.3296 google.golang.org/genproto/googleapis/rpc 0.0.0-20240903143218-8af14fe29dc1

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1.3341 github.com/containerd/errdefs 0.3.0

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1.3421 google-golang-org-genproto-googleapis-api 0.0.0-20240827150818-7e3bb234dfed

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1.3422 github.com/googleapis/enterprise-certificate-proxy 0.3.4

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1.3423 go-etcd-io-bbolt 1.3.11

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1.3424 github.com/masterminds/sprig/v3 3.3.0

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1.3425 cloud.google.com/go/auth 0.9.3

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1.3426 golang-org-x-exp 0.0.0-20240909161429-701f63a606c0

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1.3491 github.com/cncf/xds/go 0.0.0-20240905190251-b4127c9b8d78
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1.4367 luajit 2.1.1725248936

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1.4423 github.com/containerd/cgroups/v3 3.0.4

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1.4769 github.com/prometheus/pushgateway 1.9.0

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1.4770 github.com/grafana/loki 2.8.2

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1.4771 open-telemetry-opentelemetry-collector-contrib 0.116.0

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1.4772 github.com/hetznercloud/hcloud-go/v2 2.17.1

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1.4773 nomad 0.0.0-20241218080744-e3ac00f30eec

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1.4776 go.opentelemetry.io/otel/exporters/otlp/otlptrace/otlptracegrpc 1.33.0

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1.4778 github.com/prometheus/sigv4 0.1.0

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1.4779 google-pprof 0.0.0-20241210010833-40e02aabc2ad

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1.4800 github.com/efficientgo/core 1.0.0-rc.3

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1.4816 contrib-propagators-autoprop 0.54.0

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1.4817 github.com/seiflotfy/cuckoofilter 0.0.0-20240715131351-a2f2c23f1771

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1.4876 go.opentelemetry.io/otel/sdk/metric 1.34.0

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1.4877 go.opentelemetry.io/otel/exporters/otlp/otlpmetric/otlpmetrichttp 1.34.0

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1.4966 github.com/go-logr/stdr 1.2.2

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1.5015 gnutls 3.7.3-4ubuntu1.6

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1.5016 libpython3.10-minimal 3.10.12-1~22.04.9

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1.5026 backports.tarfile 1.2.0

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1.5029 golang-glog 1.2.2

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1.5033 x-oauth2 0.26.0

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1.5034 libcap 2.44-1ubuntu0.22.04.2

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1.5035 foreground-child 3.3.1

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1.5036 python3-jinja2 3.0.3-1ubuntu0.3

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1.5048 luajit 2.1.1739575274

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1.5049 go-json 0.10.5

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1.5050 github.com/goccy/go-json 0.10.5

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1.5051 apache2-data 2.4.52-1ubuntu4.13

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1.5052 libsnmp-base 5.9.1+dfsg-1ubuntu2.7

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1.5079 github.com/containers/image/v5 5.32.2

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1.5080 streams 0.0.0-20241203114243-53c3e5d79744

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1.5082 github.com/operator-framework/api 0.27.0

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1.5091 github.com/operator-framework/operator-manifest-tools 0.8.0

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1.5214 github.com/shirou/gopsutil/v4 4.25.1

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1.19 openssl 1.0.2k

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1.30 commons-beanutils 1.9.4

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1.32 argparse 0.8.1

1.33 libsodium 1.0.16

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* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/RetainedWith.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/ReflectionSupport.java
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* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/Weak.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/AutoreleasePool.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/WeakOuter.java

1.35 jboss-logging 3.3.0.Final

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1.36 mchange-commons-java 0.2.15

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table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,

in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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1.37 java-semver 0.9.0

1.38 logback-access 1.2.3

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* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/metadata/CascadableDescriptor.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/ConstraintTarget.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/metadata/GroupConversionDescriptor.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/metadata/CrossParameterDescriptor.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/spi/package-info.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/executable/package-info.java
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* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/package-info.java
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* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraintvalidation/ValidationTarget.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraintvalidation/package-info.java
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* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/metadata/BeanDescriptor.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/DecimalMax.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/groups/package-info.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/ConstraintViolation.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/Validator.java
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* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/MessageInterpolator.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/ConstraintValidatorContext.java
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*
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* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/ConstraintValidatorFactory.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/ValidatorFactory.java
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* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/ConstraintDeclarationException.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/Validation.java
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* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/ConstraintDefinitionException.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/spi/ValidationProvider.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/ValidationException.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/Null.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/Valid.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/groups/Default.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/OverridesAttribute.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/Min.java

* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/UnexpectedTypeException.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/bootstrap/GenericBootstrap.java
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* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/ConstraintValidator.java
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* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/metadata/Scope.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/metadata/PropertyDescriptor.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/metadata/ElementDescriptor.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/NotNull.java
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---

tools/shhopt.c, tools/shhopt.h:

Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both
traditional one-character options, and GNU'ish
--long-options.
Keywords: programming, library, lib, commandline, options
Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
Primary-site: http://www.ifi.uio.no/~sverrehu/pub-unix/
Alternate-site: sunsite.unc.edu /pub/Linux/libs

shhopt-1.1.2.tar.gz
Platforms: Requires ANSI C-compiler.
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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel

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1.57 jackson-module-afterburner 2.9.10

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1.62 flowrate 0.0.0-20140419014527-cca7078d478f

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- javaee_web_services_1_3.xsd
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- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd

- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
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1.73 gods 1.12.0

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1.78 x-kit 0.0.0

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1.79 drbd 8.9.10-2ubuntu0.1

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1.80.1 Available under license :

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Version 2.1, February 1999

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1.82 jackson-module-parameter-names 2.10.5

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1.84 go-playground-locales 0.12.1

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1.85 commons-lang3 3.11

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1.87 fs-minipass 2.1.0

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1.88 log4j-over-slf4j 1.7.30

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* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/spi/LoggerFactory.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/NDC.java
*

/opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/Appender.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/BasicConfigurator.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/ConsoleAppender.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/spi/LoggerRepository.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/Layout.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/WriterAppender.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/xml/DOMConfigurator.java
*
/opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/SimpleLayout.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/spi/LoggingEvent.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/RollingFileAppender.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/spi/HierarchyEventListener.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/PatternLayout.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/Logger.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/Level.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/Category.java
*
/opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/Priority.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/spi/ErrorHandler.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/spi/OptionHandler.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/FileAppender.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/LogManager.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/AppenderSkeleton.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/helpers/LogLog.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/PropertyConfigurator.java

*
/opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/Log4jLoggerFactory.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/MDC.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/spi/Filter.java

1.89 jetty-setuid-java 1.0.4

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* /opt/ws_local/PERMITS_SQL/1088629606_1599838102.52/0/jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/SetUIDListener.java
* /opt/ws_local/PERMITS_SQL/1088629606_1599838102.52/0/jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/SetUIDServer.java
* /opt/ws_local/PERMITS_SQL/1088629606_1599838102.52/0/jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/SetUID.java
* /opt/ws_local/PERMITS_SQL/1088629606_1599838102.52/0/jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/Group.java
* /opt/ws_local/PERMITS_SQL/1088629606_1599838102.52/0/jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/RLimit.java
*
/opt/ws_local/PERMITS_SQL/1088629606_1599838102.52/0/jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/Passwd.java

1.90 jackson-datatype-joda 2.10.5

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1.91 jackson-module-afterburner 2.10.5

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1.92 jackson-datatype-guava 2.10.5

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* /opt/cola/permits/1088629522_1607121849.73/0/jackson-datatype-guava-2-10-5-jar/META-INF/MANIFEST.MF

1.93 protobuf 1.3.2

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1.94 bcpkix-fips 1.0.3

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```
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   * Base constructor.
   * <p>
   * The authorizer attempts to perform matching (including the use of the wildcard) in accordance with RFC 6125.
   * </p>
   * <p>
   * Known suffixes is a list of public domain suffixes that can't be used as wild cards for
   * example *.com, or c*c.com, as a dns wildcard could match every/most .com domains if a registrar were issue it.
   * If *.com is in the known suffixes list will not be allowed to match.
   * </p>
   *
   * @param knownSuffixes a set of suffixes that cannot be wild-carded, e.g. { ".com", ".net", ".org" }
   */
```

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1093422976_1600923322.73/0/bcpkix-fips-1-0-3-sources-1-jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java

1.95 zlib 1.2.11

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1.96 commons-lang3 3.1

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1.97 lz4 1.8.1

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1.126 jackson-jaxrs-base 2.10.5

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1.139 jetty-util-ajax 9.4.35.v20201120

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with

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http://openjdk.java.net/legal/gplv2+ce.html

OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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* java.sun.security.ssl

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org.ow2.asm:asm-commons
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
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org.apache.tomcat:tomcat-util-scan
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with

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http://openjdk.java.net/legal/gplv2+ce.html

OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
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org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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 * javax.annotation:javax.annotation-api
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If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
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org.apache.tomcat:tomcat-util

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org.eclipse.jetty.toolchain:jetty-schemas

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1.145 go-grpc-prometheus 1.2.0

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1.146 pflag 1.0.5

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1.149 zlib 1.2.11

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1.151 inf 0.9.1

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1.152 hashicorp-serf 0.8.5

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1.154 pflag 1.0.5

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* /opt/cola/permits/1125633757_1611366886.61/0/lua-lua-v5-2-3-0-g7ea44b5-tar-gz/lua-lua-7ea44b5/lua.h

1.162 expect 5.45.4-2build1

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1.165 which 2.0.2

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1.166 go-sockaddr 1.0.2

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1.167 errors 0.9.1

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1.168 robfig-cron 3.0.1

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tools/shhopt.c, tools/shhopt.h:

Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both
traditional one-character options, and GNU'ish
--long-options.
Keywords: programming, library, lib, commandline, options
Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
Primary-site: http://www.ifi.uio.no/~sverrehu/pub-unix/
Alternate-site: sunsite.unc.edu /pub/Linux/libs
shhopt-1.1.2.tar.gz
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1.170 httpcomponents-core 4.4.13

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1.171 commons-lang3 2.6

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Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/common-annotations-api

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1.174 jul-to-slf4j 1.7.30

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* /opt/cola/permits/1135864176_1613618002.1/0/jul-to-slf4j-1-7-30-sources-1-jar/org/slf4j/bridge/SLF4JBridgeHandler.java

1.175 javassist 3.22.0-CR2

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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/Annotation.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/EnumMemberValue.java
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/ArrayMemberValue.java

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*
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/BooleanMemberValue.java
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/InnerClassesAttribute.java
*
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/runtime/Cflow.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/AnnotationImpl.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/FactoryHelper.java
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/SyntheticAttribute.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/tools/reflect/Reflection.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/expr/Instanceof.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/SecurityActions.java
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/SyntaxError.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/tools/reflect/CannotReflectException.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformCall.java
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/NoSuchClassError.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/stackmap/TypedBlock.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/CodeConverter.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformNewClass.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/Visitor.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/CtMember.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ByteArray.java
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/expr/Cast.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/ProxyFactory.java
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/CannotCompileException.java
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/analysis/SubroutineScanner.java
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/expr/NewArray.java
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/ProxyObjectOutputStream.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformAccessArrayField.java
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/expr/Expr.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/ClassPoolTail.java
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/tools/reflect/Metalevel.java
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/analysis/Frame.java
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ConstPool.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/analysis/Type.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/StackMapTable.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/util/HotSwapAgent.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/MemberCodeGen.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/ClassMap.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/CompileError.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/tools/rmi/RemoteException.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ConstantAttribute.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/AccessorMaker.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/SerializedProxy.java

1.176 inf 0.9.1

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1.177 go-yaml 2.3.0

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1.178 jakarta-annotation-api 1.3.5

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Source Code

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* https://github.com/eclipse-ee4j/common-annotations-api

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1.179 x-text 0.3.3

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1.180 jcl-over-slf4j 1.7.30

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* /opt/cola/permits/1135880174_1613624046.95/0/jcl-over-slf4j-1-7-30-sources-1-jar/org/apache/commons/logging/impl/SLF4JLogFactory.java
* /opt/cola/permits/1135880174_1613624046.95/0/jcl-over-slf4j-1-7-30-sources-1-jar/org/apache/commons/logging/LogConfigurationException.java
* /opt/cola/permits/1135880174_1613624046.95/0/jcl-over-slf4j-1-7-30-sources-1-jar/org/apache/commons/logging/Log.java
* /opt/cola/permits/1135880174_1613624046.95/0/jcl-over-slf4j-1-7-30-sources-1-jar/org/apache/commons/logging/impl/SimpleLog.java
* /opt/cola/permits/1135880174_1613624046.95/0/jcl-over-slf4j-1-7-30-sources-1-jar/org/apache/commons/logging/impl/NoOpLog.java
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1.181 jakarta-validation-api 2.0.2

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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/CascadableDescriptor.java
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*
/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ExecutableDescriptor.java
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/MessageInterpolator.java
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/Unwrapping.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/ValueExtractor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraintvalidation/ValidationTarget.java
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/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/MethodDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/UnexpectedTypeException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/BeanDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Digits.java
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*
/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintViolation.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintDefinitionException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ValidateUnwrappedValue.java
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 /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/GroupConversionDescriptor.java
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/bootstrap/GenericBootstrap.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/MethodType.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/ValueExtractorDeclarationException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ConstructorDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraintvalidation/package-info.java
*
 /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/AssertTrue.java
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/ValueExtractorDefinitionException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/BootstrapConfiguration.java
*
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/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ReturnValueDescriptor.java
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Validation.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ValidatorContext.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/NotBlank.java
*
/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/spi/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Constraint.java
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/CrossParameterDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ClockProvider.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Configuration.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/executable/ValidateOnExecution.java
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ConstraintDescriptor.java
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintValidator.java
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Positive.java
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/spi/ConfigurationState.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Payload.java

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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/META-INF/maven/jakarta.validation/jakarta.validation-api/pom.xml

1.182 jakarta-ws-rs-api 2.1.6

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1.187 commons-codec 1.15

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1.188 go-yaml 2.4.0

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1.189 jakarta-ws-rs-api 2.1.5

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1.190 get-caller-file 2.0.5

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1.191 spdx-expression-parse 3.0.1

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1.192 jersey-entity-filtering 2.28

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1.195 txw2 2.3.0

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1.199 hk2-utils 2.6.1

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* https://github.com/eclipse-ee4j/glassfish-hk2
* https://github.com/eclipse-ee4j/glassfish-fighterfish

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1.200 hk2-api 2.6.1

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1.202 jakarta-inject 2.6.1

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1.208 python-jsonpointer 2.0-0ubuntu1

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1.209 python-jsonschema 3.2.0-0ubuntu2

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1.210 x-crypto v0.0.0-20200622213623-75b288015ac9

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1.211 javax-inject 2.5.0-b32

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* /opt/cola/permits/1142539714_1615393722.4/0/javax-inject-2-5-0-b32-sources-5-jar/javax/inject/package-info.java
* /opt/cola/permits/1142539714_1615393722.4/0/javax-inject-2-5-0-b32-sources-5-jar/javax/inject/Singleton.java
* /opt/cola/permits/1142539714_1615393722.4/0/javax-inject-2-5-0-b32-sources-5-jar/javax/inject/Scope.java
* /opt/cola/permits/1142539714_1615393722.4/0/javax-inject-2-5-0-b32-sources-5-jar/javax/inject/Named.java
* /opt/cola/permits/1142539714_1615393722.4/0/javax-inject-2-5-0-b32-sources-5-jar/javax/inject/Inject.java
* /opt/cola/permits/1142539714_1615393722.4/0/javax-inject-2-5-0-b32-sources-5-jar/javax/inject/Qualifier.java

1.212 jersey-metainf-services 2.33

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```

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
<program>  Copyright (C) <year>  <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

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1.215 source-map 2.1.3+incompatible

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1.216 x-crypto 0.12.0

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1.217 jackson-datatype-guava 2.9.10

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1.218 ms 2.1.3

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1.219 mxj 1.8.4

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1.220 commons-codec 1.11

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1.224 go-yaml v2.2.4

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1.234 amqp-client 5.10.0

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```
// Features is a bitmask of feature flags
type Features uint

const FeatureNone Features = 0

func (f Features) HasFeature(flag Features) bool {
 return false
}
```

otp
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The Masterminds

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mgo - MongoDB driver for Go

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```
<PageHeader as |p|>
 <p.levelLeft>
  <h1 class="title is-3">License</h1>
 </p.levelLeft>
</PageHeader>
<MessageError @model={{model}} />
{{#if isTemporary}}
 <section class="box is-sideless is-fullwidth">
  <AlertBanner
   @type="warning"
   @message="Your temporary license expires in {{date-from-now expirationTime}} and your vault will seal.
Please enter a valid license below."
   @class="license-warning"
   data-test-cluster-status
   data-test-warning-text
  />
  <span class="title is-5" data-test-temp-license>Temporary license</span>
  <form {{action "saveModel" text on="submit"}}>
   <div class="box is-shadowless is-fullwidth is-marginless">
    <div class="field">
     <label for="license-id" class="is-label">License</label>
     <div class="control">
      {{input id="license-id" value=text autocomplete="off" class="input" data-test-text-input="data-test-text-
input"}}
     </div>
    </div>
   </div>
   <div class="field">
```

```
        <div class="control">
          <button type="submit" class="button is-primary" data-test-save-button>Save</button>
        </div>
      </div>
    </form>
  </section>
{{else}}
  <section class="box is-sideless is-fullwidth">
    <span class="title is-5">Details</span>
    {{#if showForm}}
      <form {{action "saveModel" text on="submit"}}>
        <div class="field">
          <label for="license-id" class="is-label">License</label>
          <div class="control">
            {{input id="license-id" value=text autocomplete="off" class="input" data-test-text-input="data-test-text-
input"}}
          </div>
        </div>
        <div class="field is-grouped">
          <div class="control">
            <button type="submit" class="button is-primary" data-test-save-button>Save</button>
          </div>
          <div class="control">
            <button type="button" {{action "toggleForm"}} class="button" data-test-cancel-button>Cancel</button>
          </div>

    </div>
      </form>
    {{else}}
      <div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">
        {{info-table-row label="License ID" value=licenseId}}
        {{#info-table-row label="Valid from" value=startTime}}
          {{date-format model.startTime 'MMM DD, YYYY hh:mm:ss A'}} to {{date-format expirationTime 'MMM
DD, YYYY hh:mm:ss A'}}
        {{/info-table-row}}
      </div>
      <div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">
        <div class="control">
          <button type="button" {{action "toggleForm"}} class="button" data-test-enter-button>Enter new
license</button>
        </div>
      </div>
    {{/if}}
    </section>
  {{/if}}
<section class="box is-sideless is-marginless is-shadowless is-fullwidth">
  <span class="title is-5">Features</span>
  <div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">
```

```
  {{#each featuresInfo as |info|}}
    {{#info-table-row label=info.name value=(if
 info.active "Active" "Not Active") data-test-feature-row="data-test-feature-row"}}
      {{#if info.active}}
      <Icon
        @glyph="check-circle-outline"
        @size="l"
        class="icon-true"
        aria-hidden="true"
      /><span data-test-feature-status>Active {{#if info.count}}&mdash;
       {{info.count}} standby nodes allotted{{/if}}</span>
      {{else}}
        <Icon
          @glyph="cancel-circle-outline"
          @size="l"
          class="icon-false"
          aria-hidden="true"
        /><span data-test-feature-status>Not Active</span>
      {{/if}}
    {{/info-table-row}}
  {{/each}}
 </div>
</section>
```

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 @expirationTime={{model.expirationTime}}
 @licenseId={{model.licenseId}}
 @features={{model.features}}
 @text={{model.text}}
 @saveModel={{action "saveModel"}}
 @model={{model}}
/>
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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package github

import (
 "context"
 "fmt"
)

// LicensesService handles communication with the license related
// methods of the GitHub API.
//
// GitHub API docs: https://developer.github.com/v3/licenses/
type LicensesService service

// RepositoryLicense represents the license for a repository.
type RepositoryLicense struct {
 Name *string `json:"name,omitempty"`
 Path *string `json:"path,omitempty"`

 SHA         *string  `json:"sha,omitempty"`
 Size        *int     `json:"size,omitempty"`
 URL         *string  `json:"url,omitempty"`
 HTMLURL     *string  `json:"html_url,omitempty"`
 GitURL      *string  `json:"git_url,omitempty"`
 DownloadURL *string  `json:"download_url,omitempty"`
 Type        *string  `json:"type,omitempty"`
 Content     *string  `json:"content,omitempty"`
 Encoding    *string  `json:"encoding,omitempty"`
 License
     *License `json:"license,omitempty"`
}

func (l RepositoryLicense) String() string {
 return Stringify(l)
```

```
}

// License represents an open source license.
type License struct {
 Key  *string `json:"key,omitempty"`
 Name *string `json:"name,omitempty"`
 URL  *string `json:"url,omitempty"`

 SPDXID         *string   `json:"spdx_id,omitempty"`
 HTMLURL        *string   `json:"html_url,omitempty"`
 Featured       *bool     `json:"featured,omitempty"`
 Description    *string   `json:"description,omitempty"`
 Implementation *string   `json:"implementation,omitempty"`
 Permissions    *[]string `json:"permissions,omitempty"`
 Conditions     *[]string `json:"conditions,omitempty"`
 Limitations    *[]string `json:"limitations,omitempty"`
 Body           *string   `json:"body,omitempty"`
}

func (l License) String() string {
 return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s
 *LicensesService) List(ctx context.Context) ([]*License, *Response, error) {
 req, err := s.client.NewRequest("GET", "licenses", nil)
 if err != nil {
  return nil, nil, err
 }

 var licenses []*License
 resp, err := s.client.Do(ctx, req, &licenses)
 if err != nil {
  return nil, resp, err
 }

 return licenses, resp, nil
}

// Get extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
 u := fmt.Sprintf("licenses/%s", licenseName)
```

```
 req, err := s.client.NewRequest("GET", u, nil)
 if err != nil {
  return nil, nil, err
 }

 license := new(License)
 resp, err := s.client.Do(ctx, req, license)
 if err != nil {
  return nil, resp, err
 }

 return license, resp, nil
}
```

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---
layout: "api"
page_title: "/sys/license - HTTP API"
sidebar_title: "<code>/sys/license</code>"
sidebar_current: "api-http-system-license"
description: |-
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Vault.

`/sys/license`

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The `/sys/license` endpoint is used to view and update the license used in
Vault.

Read License

This endpoint returns information about the currently installed license.

Method	Path
`GET`	`/sys/license`

Sample Request

```
$ curl \
  --header "X-Vault-Token: ..." \
  http://127.0.0.1:8200/v1/sys/license
```

Sample Response

```json
{
 "data": {
   "expiration_time": "2017-11-14T16:34:36.546753-05:00",
   "features": [
     "UI",
     "HSM",
     "Performance Replication",
     "DR Replication"
   ],
   "license_id": "temporary",
    "start_time": "2017-11-14T16:04:36.546753-05:00"
 },
 "warnings": [
   "time left on license is 29m33s"
 ]
}
```

Install License

This endpoint is used to install a license into Vault.

Method	Path
`PUT`	`/sys/license`

Parameters

- `text` `(string: <required>)` The text of the license.

DR Secondary Specific Parameters

 - `dr_operation_token` `(string: <required>)` - DR operation token used to authorize this request.

Sample Payload

```json
{
 "text": "01ABCDEFG..."
}
```

Sample Request

```
$ curl \
   --header "X-Vault-Token: ..." \
   --request PUT \
   --data @payload.json \
   http://127.0.0.1:8200/v1/sys/license
```

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1.236 zstd 1.3.6

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1.237 os-service-types 1.7.0

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1.238 ply 3.11

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PLY (Python Lex-Yacc) Version 3.11

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Introduction
==========

PLY is a 100% Python implementation of the common parsing tools lex and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc.
  If you know how to use these tools in C, you will find PLY
  to be similar.

- PLY provides *very* extensive error reporting and diagnostic
  information to assist in parser construction. The original
  implementation was developed for instructional purposes. As
  a result, the system tries to identify the most common types
  of errors made by novice users.

- PLY provides full support for empty productions, error recovery,
  precedence specifiers, and moderately ambiguous grammars.

- Parsing is based on LR-parsing which is fast, memory efficient,
  better suited to large grammars, and which has a number of nice
  properties when dealing with syntax errors and other parsing problems.
  Currently, PLY builds its parsing tables using the LALR(1)
  algorithm used in yacc.

- PLY uses Python introspection features to build lexers and parsers.
  This greatly simplifies the task of parser construction since it reduces
  the number of files and eliminates the need to run a separate lex/yacc
  tool before running your program.

- PLY can be used to build parsers for "real" programming languages.
  Although it is not ultra-fast due to its Python implementation,
  PLY can be used to parse grammars consisting of several hundred
  rules (as might be found for a language like C). The lexer and LR
  parser are also reasonably efficient when parsing typically
  sized programs. People have used PLY to build parsers for

C, C++, ADA, and other real programming languages.

How to Use
==========

PLY consists of two files : lex.py and yacc.py. These are contained within the 'ply' directory which may also be used as a Python package. To use PLY, simply copy the 'ply' directory to your project and import lex and yacc from the associated 'ply' package. For example:

```
import ply.lex as lex
import ply.yacc as yacc
```

Alternatively, you can copy just the files lex.py and yacc.py individually and use them as modules. For example:

```
import lex
import yacc
```

The file setup.py can be used to install
ply using distutils.

The file doc/ply.html contains complete documentation on how to use the system.

The example directory contains several different examples including a PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

Requirements
============
PLY requires the use of Python 2.6 or greater. However, you should use the latest Python release if possible. It should work on just about any platform. PLY has been tested with both CPython and Jython. It also seems to work with IronPython.

Resources
=========
More information about PLY can be obtained on the PLY webpage at:

http://www.dabeaz.com/ply

For a detailed overview of parsing theory, consult the excellent book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown may also be useful.

The GitHub page for PLY can be found at:

https://github.com/dabeaz/ply

An old and
relatively inactive discussion group for PLY is found at:

http://groups.google.com/group/ply-hack

Acknowledgments
==========
A special thanks is in order for all of the students in CS326 who
suffered through about 25 different versions of these tools :-).

The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x.
Andrew Waters and Markus Schoepflin were instrumental in reporting bugs
and testing a revised LALR(1) implementation for PLY-2.0.

Special Note for PLY-3.0
==========
PLY-3.0 the first PLY release to support Python 3. However, backwards
compatibility with Python 2.6 is still preserved. PLY provides dual
Python 2/3 compatibility by restricting its implementation to a common
subset of basic language features. You should not convert PLY using
2to3--it is not necessary and may in fact break the implementation.

Example
=======

Here is a simple example showing a PLY implementation
of a calculator
with variables.

```
# ------------------------------------------------------------------------------
# calc.py
#
# A simple calculator with variables.
# ------------------------------------------------------------------------------

tokens = (
    'NAME','NUMBER',
    'PLUS','MINUS','TIMES','DIVIDE','EQUALS',
    'LPAREN','RPAREN',
    )

# Tokens
```

```
t_PLUS    = r'\+'
t_MINUS   = r'-'
t_TIMES   = r'\*'
t_DIVIDE  = r'/'
t_EQUALS  = r'='
t_LPAREN  = r'\('
t_RPAREN  = r'\)'
t_NAME    = r'[a-zA-Z_][a-zA-Z0-9_]*'

def t_NUMBER(t):
    r'\d+'
    t.value = int(t.value)
    return t

# Ignored characters
t_ignore = " \t"

def t_newline(t):
    r'\n+'
    t.lexer.lineno += t.value.count("\n")

def t_error(t):
    print("Illegal character '%s'" % t.value[0])
    t.lexer.skip(1)

# Build the lexer
import ply.lex as lex
lex.lex()

# Precedence
rules for the arithmetic operators
precedence = (
    ('left','PLUS','MINUS'),
    ('left','TIMES','DIVIDE'),
    ('right','UMINUS'),
    )

# dictionary of names (for storing variables)
names = { }

def p_statement_assign(p):
    'statement : NAME EQUALS expression'
    names[p[1]] = p[3]

def p_statement_expr(p):
    'statement : expression'
    print(p[1])
```

```
def p_expression_binop(p):
    '''expression : expression PLUS expression
                  | expression MINUS expression
                  | expression TIMES expression
                  | expression DIVIDE expression'''
    if p[2] == '+'  : p[0] = p[1] + p[3]
    elif p[2] == '-': p[0] = p[1] - p[3]
    elif p[2] == '*': p[0] = p[1] * p[3]
    elif p[2] == '/': p[0] = p[1] / p[3]

def p_expression_uminus(p):
    'expression : MINUS expression %prec UMINUS'
    p[0] = -p[2]

def p_expression_group(p):
    'expression : LPAREN
expression RPAREN'
    p[0] = p[2]

def p_expression_number(p):
    'expression : NUMBER'
    p[0] = p[1]

def p_expression_name(p):
    'expression : NAME'
    try:
        p[0] = names[p[1]]
    except LookupError:
        print("Undefined name '%s'" % p[1])
        p[0] = 0

def p_error(p):
    print("Syntax error at '%s'" % p.value)

import ply.yacc as yacc
yacc.yacc()

while True:
    try:
        s = raw_input('calc > ')   # use input() on Python 3
    except EOFError:
        break
    yacc.parse(s)
```

Bug Reports and Patches
==========

My goal with PLY is to simply have a decent lex/yacc implementation
for Python. As a general rule, I don't spend huge amounts of time
working on it unless I receive very specific bug reports and/or
patches to fix problems. I also try to incorporate submitted feature
requests and enhancements into each new version. Please visit the PLY
github page
 at https://github.com/dabeaz/ply to submit issues and pull
requests. To contact me about bugs and/or new features, please send
email to dave@dabeaz.com.

-- Dave

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1.239 yocto-queue 0.1.0

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1.241 pstree-remy 1.1.8

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Since May 20 2000, it is maintained by Roland Bauerschmidt
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1.257 ubuntu-keyring 2021.03.26

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1.260 jsbn 1.1.0

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Found in path(s):
* /opt/cola/permits/1171050096_1622796423.2/0/dropwizard-validation-1-3-29-sources-jar/io/dropwizard/validation/InterpolationHelper.java

1.280 dropwizard-forms 1.3.29

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procfs provides functions to retrieve system, kernel and process
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1.292 jackson-datatype-jdk8 2.10.5

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Manifest-Version: 1.0
Bnd-LastModified: 1595301005506
Build-Jdk: 1.8.0_162
Built-By: tatu
Bundle-Description: Add-on module for Jackson (http://jackson.codehaus
.org) to supportJDK 8 data types.
Bundle-DocURL: https://github.com/FasterXML/jackson-modules-java8/jack
son-datatype-jdk8
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Jackson datatype: jdk8
Bundle-SymbolicName: com.fasterxml.jackson.datatype.jackson-datatype-j
dk8
Bundle-Vendor: FasterXML
Bundle-Version: 2.10.5
Created-By: Apache Maven Bundle Plugin
Export-Package: com.fasterxml.jackson.datatype.jdk8;version="2.10.5";u
ses:="com.fasterxml.jackson.core,com.fasterxml.jackson.core.io,com.fa
sterxml.jackson.databind,com.fasterxml.jackson.databind.deser,com.fas
terxml.jackson.databind.deser.std,com.fasterxml.jackson.databind.json
FormatVisitors,com.fasterxml.jackson.databind.jsontype,com.fasterxml.
 jackson.databind.ser,com.fasterxml.jackson.databind.ser.impl,com.fast
erxml.jackson.databind.ser.std,com.fasterxml.jackson.databind.type,co
m.fasterxml.jackson.databind.util"

Implementation-Build-Date: 2020-07-21 03:09:44+0000
Implementation-Title: Jackson datatype: jdk8
Implementation-Vendor: FasterXML
Implementation-Vendor-Id: com.fasterxml.jackson.datatype
Implementation-Version: 2.10.5
Import-Package: com.fasterxml.jackson.core;version="[2.10,3)",com.fast
erxml.jackson.core.io;version="[2.10,3)",com.fasterxml.jackson.core.u
til;version="[2.10,3)",com.fasterxml.jackson.databind;version="[2.10,
3)",com.fasterxml.jackson.databind.deser;version="[2.10,3)",com.faste
rxml.jackson.databind.deser.std;version="[2.10,3)",com.fasterxml.jack
son.databind.jsonFormatVisitors;version="[2.10,3)",com.fasterxml.jack
son.databind.jsontype;version="[2.10,3)",com.fasterxml.jackson.databi
nd.ser;version="[2.10,3)",com.fasterxml.jackson.databind.ser.impl;ver
 sion="[2.10,3)",com.fasterxml.jackson.databind.ser.std;version="[2.10
,3)",com.fasterxml.jackson.databind.type;version="[2.10,3)",com.faste
rxml.jackson.databind.util;version="[2.10,3)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Specification-Title: Jackson datatype: jdk8
Specification-Vendor: FasterXML
Specification-Version: 2.10.5
Tool: Bnd-4.2.0.201903051501
X-Compile-Source-JDK: 1.8
X-Compile-Target-JDK: 1.8

Found in path(s):
* /opt/cola/permits/1154615874_1618867970.74/0/jackson-datatype-jdk8-2-10-5-5-jar/META-INF/MANIFEST.MF

1.293 zstd 1.4.5

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1.294 msgpack 3.3.0

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1.295 diff 5.0.0

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1.296 net 1.0.2

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1.298 ssh-import-id 5.11-0ubuntu1

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[Misc
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 */
```

[zlib]

```
/* zlib.h -- interface of
```

the 'zlib' general purpose compression library
version 1.2.3, July 18th, 2005

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Jean-loup
Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for
Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt
(zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).
*/

[dialyzer]

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[edoc, syntax_tools]

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[eldap]

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1.307 go-grpc-prometheus v1.2.0

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1.308 x-crypto v0.0.0-20210817164053-32db794688a5

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1.314 command-exists 1.2.8

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1.316 python-chardet 4.0.0-1

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1.317 libhtml-tree-perl 5.07-2

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```
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under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the
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```
Yoyodyne, Inc., hereby disclaims all
copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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exception, it need not include source code for modules which are standard
libraries that accompany the operating system on which the
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<signature of Ty Coon>, 1 April 1989
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1.323 libhtml-tagset-perl 3.20-4

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README for HTML::Tagset

HTML::Tagset

This module contains data tables useful in dealing with HTML.

It provides no functions or methods.

PREREQUISITES

This suite requires Perl 5.

HTML::Tagset doesn't use any nonstandard modules.

INSTALLATION

You install HTML::Tagset, as you would install any perl module library, by running these commands:

```
perl Makefile.PL
make
make test
make install
```

If you want to install a private copy of HTML::Tagset in your home directory, then you should try to produce the initial Makefile with something like this command:

```
perl Makefile.PL LIB=~/perl
```

DOCUMENTATION

POD-format documentation is included in Tagset.pm. POD is readable with the 'perldoc' utility. See ChangeLog for recent changes.

MACPERL INSTALLATION NOTES

Don't bother with the makefiles. Just make a HTML directory in your MacPerl site_lib or lib directory, and move Tagset.pm into there.

SUPPORT

Questions, bug reports, and suggestions for HTML::Tagset should just be sent to me at sburke@cpan.org

AVAILABILITY

The latest version of HTML::Tagset is available from the Comprehensive Perl Archive Network (CPAN). Visit <http://www.perl.com/CPAN/> to find a CPAN site near you.

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=head1 CAVEATS

You may find it useful to alter the behavior of modules (like
C<HTML::Element> or C<HTML::TreeBuilder>) that use C<HTML::Tagset>'s
data tables by altering the data tables themselves. You are welcome
to try, but be careful; and be aware that different modules may or may
react differently to the data tables being changed.

Note that it may be inappropriate to use these tables for I<producing>
HTML -- for example, C<%isHeadOrBodyElement> lists the tagnames
for all elements that can appear either in the head or in the body,
such as "script". That doesn't mean that I am saying your code that
produces HTML should feel free to put script elements in either place!
If you are producing programs that spit out HTML, you should be
I<intimately> familiar with the DTDs for HTML or XHTML (available at
C<http://www.w3.org/>), and you should slavishly obey them, not
the data tables in this document.

=head1 SEE ALSO

L<HTML::Element>,
 L<HTML::TreeBuilder>, L<HTML::LinkExtor>

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Copyright 2005-2008 Andy Lester.

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=head1 ACKNOWLEDGEMENTS

Most of the code/data in this module was adapted from code written
by Gisle Aas for C<HTML::Element>, C<HTML::TreeBuilder>, and
C<HTML::LinkExtor>. Then it was maintained by Sean M. Burke.

=head1 AUTHOR

Current maintainer: Andy Lester, C<< <andy at petdance.com> >>

=head1 BUGS

Please report any bugs or feature requests to
C<bug-html-tagset at rt.cpan.org>, or through the web interface at
L<http://rt.cpan.org/NoAuth/ReportBug.html?Queue=HTML-Tagset>. I will
be notified, and then you'll automatically be notified of progress on
your bug as I make changes.

=cut

Found in path(s):
* /opt/cola/permits/1205072192_1632168884.18/0/libhtml-tagset-perl-3-20-orig-1-tar-gz/HTML-Tagset-3.20/Tagset.pm

1.324 jakarta-el 3.0.4

1.324.1 Available under license :

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1.325 safe-stable-stringify 1.1.1

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1.339 x-text 0.3.7

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1.340 blackfriday 2.1.0

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1.341 aec 1.0.0

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1.342 units 0.0.0-20180711220420-6950e57a87ea

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1.343 golang-genproto 0.0.0-20190819201941-24fa4b261c55

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1.344 go-ieproxy 0.0.1

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1.345 fullsailor-pkcs7 0.0.0-20190404230743-d7302db945fa

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1.346 kelseyhightower-envconfig 1.4.0

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1.347 azure-pipeline-go 0.2.3

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1.348 jaeger-lib 2.4.1+incompatible

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1.349 geo 0.0.0-20190916061304-5b978397cfec

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1.360 go-hclog 0.16.2

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1.361 uuid 1.3.0

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1.362 go-redis-redis 6.15.9+incompatible

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1.364 opentracing-contrib-go-grpc 0.0.0-20210225150812-73cb765af46e

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1.365 promrus 1.2.0

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1.375 jersey-bean-validation 2.33

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1.387 golang 1.12.17

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1.390 md5-simd 1.1.2

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1.393 fwd 1.1.1

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1.396 go-shellwords 1.0.12

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1.397 opentracing-go 1.2.0

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@c
@c %**start of header

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(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
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be optional: if the application does not supply it, the square
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machine-readable source code, which
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medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
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compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
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uses the
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Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the
object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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1.403 jigit 1.22-3build1

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1.410 mime 1.6.0

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1.412 shebang-regex 3.0.0

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1.413 bcrypt 3.2.0

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1.415 rimraf 2.6.2

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1.417 coredns-caddy 1.1.1

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1.430 argparse 1.0.10

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1.432 string-width 4.2.3

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1.433 async 3.2.2

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1.434 core-util-is 1.0.3

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1.435 jackson 2.15.0

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1.436 python-setuptools 59.6.0

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1.437 x-net 0.0.0-20211209124913-491a49abca63

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1.438 go-capability 0.0.0-20200815063812-42c35b437635

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1.439 locales 0.12.1

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1.440 coreos-go-systemd 0.0.0-20190719114852-fd7a80b32e1f

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1.441 clientmodel 0.2.0

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1.442 universal-translator 0.0.0-20170327191703-71201497bace

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1.443 sigs-k8s-io-yaml 1.2.0

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  site: string
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1.447 golang.zx2c4.com/wireguard/wgctrl 0.0.0-20200324154536-ceff61240acf

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1.450 gounits 0.4.0

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1.451 mux 1.7.4

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1.452 msgpack 1.0.3

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1.453 intern 1.0.0

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1.454 githubcommattngocolorable 0.1.8

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1.455 gopkg-in-square-go-jose-v2 2.6.0

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1.457 json-iterator-go 1.1.12

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1.458 githubcomghodssyaml 1.0.1-0.20190212211648-25d852aebe32

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1.459 golang-mock 1.6.0

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Aaron Jacobs <jacobsa@google.com> <aaronjjacobs@gmail.com>
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David Symonds <dsymonds@golang.org>
Ryan Barrett <ryanb@google.com>
package empty_interface

//go:generate mockgen -package empty_interface -destination mock.go -source input.go -
copyright_file=mock_copyright_header

type Empty interface{}

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// Package empty_interface is a generated GoMock package.
package empty_interface

import (
 gomock "github.com/golang/mock/gomock"
)

// MockEmpty is a mock of Empty interface.
type MockEmpty struct {
 ctrl     *gomock.Controller
 recorder *MockEmptyMockRecorder
}

// MockEmptyMockRecorder is the mock recorder for MockEmpty.
type MockEmptyMockRecorder struct {
 mock *MockEmpty
}

// NewMockEmpty creates a new mock instance.
func NewMockEmpty(ctrl *gomock.Controller) *MockEmpty {
 mock := &MockEmpty{ctrl: ctrl}
 mock.recorder = &MockEmptyMockRecorder{mock}
 return mock
}

// EXPECT returns an object that allows the caller to indicate expected use.
func (m *MockEmpty) EXPECT() *MockEmptyMockRecorder
 {
 return m.recorder
}
```

1.460 json-iterator-go 1.1.11

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any
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1.475 github.com/moby/spdystream 0.2.0

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1.476 go-difflib 1.0.1-0.20181226105442-5d4384ee4fb2

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1.477 github.com/clbanning/mxj 1.8.4

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1.478 go-flowrate 0.0.0-20140419014527-cca7078d478f

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1.479 github.com/moby/locker 1.0.1

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1.480 logr 1.2.0

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1.484 python-requests 2.27.1

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1.485 github.com/eapache/channels 1.1.0

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1.486 go-playground-universal-translator 0.0.0-20170327191703-71201497bace

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1.487 github.com/makenowjust/heredoc 1.0.0

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1.488 go-debug 1.1.0

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1.489 urllib3 1.26.8

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1.490 go-grpc-prometheus 1.2.1-0.20191002090509-6af20e3a5340

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1.491 tcl-expect 5.45.4-2build1

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1.492 github.com/mitchellh/hashstructure/v2 2.0.2

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1.493 mwitkow-go-conntrack 0.0.0-20190716064945-2f068394615f

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1.494 google-apis 1.4.1

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1.495 xorm.io/xorm 0.8.2

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1.496 cheekybits/genny 1.0.0

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1.497 gopkg.in/mail.v2 2.3.1

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1.498 jessevdk-go-flags 1.5.0

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1.499 kuberesolver 2.4.0+incompatible

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1.500 xorm.io/core 0.7.3

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1.501 xorm.io/builder 0.3.6

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1.502 go-diff 1.1.0

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1.503 emirpasic/gods 1.12.0

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1.504 go-context 0.0.0-20150711004518-d14ea06fba99

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1.505 json-iterator-go 1.1.7

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1.506 levenshtein 1.2.1

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1.507 go-metrics 0.0.1

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1.508 go-runewidth 0.0.13

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1.509 chokidar 3.5.3

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1.510 pault.ag/go/sniff 0.0.0-20200207005214-cf7e4d167732

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1.511 github.com/mitchellh/go-ps 1.0.0

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1.512 gopkg.in/go-playground/pool.v3 3.1.1

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1.513 glibc 2.27-3ubuntu1

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1.516 profiler 1.1.1

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1.517 stateless4j 2.5.0

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1.518 gofuzz 1.2.0

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1.530 gcfg 1.5.0

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1.532 github.com/alecthomas/kingpin 1.3.8-0.20210301060133-17f40c25f497

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1.533 github.com/themihai/gomemcache 0.0.0-20180902122335-24332e2d58ab

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1.534 apm 1.11.0

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1.538 multierror 0.0.0-20140124173710-69b34d4ec901

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1.539 willf-bitset 1.1.11

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1.542 xxhash 0.8.1-1

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1.548 cpp 11.2.0-1ubuntu1

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Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both
        traditional one-character options, and GNU'ish
        --long-options.
Keywords: programming, library, lib, commandline, options
Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
Primary-site: http://www.ifi.uio.no/~sverrehu/pub-unix/
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  shhopt-1.1.2.tar.gz
Platforms: Requires ANSI C-compiler.
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1.550 keyutils 1.5.8

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore

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Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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to use the modified definitions.)

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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b) Give prominent notice with the combined library of the fact
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1.551 future 5.1.0

1.551.1 Available under license :

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Contributor Covenant Code of Conduct

Our Pledge

We as members, contributors, and leaders pledge to make participation in our
community a harassment-free experience for everyone, regardless of age, body
size, visible or invisible disability, ethnicity, sex characteristics, gender
identity and expression, level of experience, education, socio-economic status,
nationality, personal appearance, race, religion, or sexual identity
and orientation.

We pledge to act and interact in ways that contribute to an open, welcoming,
diverse, inclusive, and healthy community.

Our Standards

Examples of behavior that contributes to a positive environment for our community include:

* Demonstrating empathy and kindness toward other people
* Being respectful of differing opinions, viewpoints, and experiences
* Giving and gracefully accepting constructive feedback
* Accepting responsibility and apologizing to those affected by our mistakes, and learning from the experience
* Focusing on what is best not just for us as individuals, but for the overall community

Examples of unacceptable behavior include:

* The use of sexualized language or imagery, and sexual attention or advances of any kind
* Trolling, insulting or derogatory comments, and personal or political attacks
* Public or private harassment
* Publishing others' private information, such as a physical or email address, without their explicit permission
* Other conduct which could reasonably be considered inappropriate in a professional setting

Enforcement Responsibilities

Community leaders are responsible for clarifying and enforcing our standards of acceptable behavior and will take appropriate and fair corrective action in response to any behavior that they deem inappropriate, threatening, offensive, or harmful.

Community leaders have the right and responsibility to remove, edit, or reject comments, commits, code, wiki edits, issues, and other contributions that are not aligned to this Code of Conduct, and will communicate reasons for moderation decisions when appropriate.

Scope

This Code of Conduct applies within all community spaces, and also applies when an individual is officially representing the community in public spaces. Examples of representing our community include using an official e-mail address, posting via an official social media account, or acting as an appointed representative at an online or offline event.

Enforcement

Instances of abusive, harassing, or otherwise unacceptable behavior may be reported to the project lead.
All complaints will be reviewed and investigated promptly and fairly.

All community leaders are obligated to respect the privacy and security of the reporter of any incident.

Enforcement Guidelines

Community leaders will follow these Community Impact Guidelines in determining the consequences for any action they deem in violation of this Code of Conduct:

1. Correction

Community Impact: Use of inappropriate language or other behavior deemed unprofessional or unwelcome in the community.

Consequence: A private, written warning from community leaders, providing clarity around the nature of the violation and an explanation of why the behavior was inappropriate. A public apology may be requested.

2. Warning

Community Impact: A violation through a single incident or series of actions.

Consequence: A warning with consequences for continued behavior. No interaction with the people involved, including unsolicited interaction with those enforcing the Code of Conduct, for a specified period of time. This includes avoiding interactions in community spaces as well as external channels like social media. Violating these terms may lead to a temporary or permanent ban.

3. Temporary Ban

Community Impact: A serious violation of community standards, including sustained inappropriate behavior.

Consequence: A temporary ban from any sort of interaction or public communication with the community for a specified period of time. No public or private interaction with the people involved, including unsolicited interaction with those enforcing the Code of Conduct, is allowed during this period. Violating these terms may lead to a permanent ban.

4. Permanent Ban

Community Impact: Demonstrating a pattern of violation of community standards, including sustained inappropriate behavior, harassment of an individual, or aggression toward or disparagement of classes of individuals.

Consequence: A permanent ban from any sort of public interaction within the community.

Attribution

This Code of Conduct is adapted from the [Contributor Covenant][homepage], version 2.0, available at https://www.contributor-covenant.org/version/2/0/code_of_conduct.html.

Community Impact Guidelines were inspired by [Mozilla's code of conduct enforcement ladder](https://github.com/mozilla/diversity).

[homepage]: https://www.contributor-covenant.org

For
 answers to common questions about this code of conduct, see the FAQ at https://www.contributor-covenant.org/faq. Translations are available at https://www.contributor-covenant.org/translations.

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* /opt/cola/permits/1271961303_1645142519.38/0/future-develop-zip/future-develop/CONDUCT.md
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Package: dummy
Version: 0.1
Title: A Dummy Package
Description: A package placeholder to trick 'usethis' to stop at the folder where this DESCRIPTION file lives rather than traversing higher up in the directory structure. This protects against bugs such as the one described in https://github.com/r-lib/lifecycle/issues/52.
Authors@R: person("Dummy", "Dummyson", role="aut", email = "dummy@dummy.org")
License: GPL (>= 3)
Imports:
  lifecycle
RdMacros: lifecycle

Found in path(s):
* /opt/cola/permits/1271961303_1645142519.38/0/future-develop-zip/future-develop/revdep/DESCRIPTION
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Package: future
Version: 1.23.0-9006
Title: Unified Parallel and Distributed Processing in R for Everyone
Imports:
  digest,

```
  globals (>= 0.14.0),
  listenv (>= 0.8.0),
  parallel,
  parallelly (>= 1.30.0),
  tools,
  utils
Suggests:
  RhpcBLASctl,
  R.rsp,
  markdown
VignetteBuilder: R.rsp
Authors@R: c(person("Henrik", "Bengtsson", role=c("aut", "cre", "cph"),
                                 email = "henrikb@braju.com"))
Description: The purpose of this package is to provide a lightweight and
  unified Future API for sequential and parallel processing of R
  expression via futures.  The simplest way to evaluate an expression
  in parallel is to use `x %<-% { expression }` with `plan(multisession)`.
  This package implements sequential, multicore, multisession, and
  cluster futures.  With these, R expressions can be evaluated on the
  local machine, in parallel a set of local
 machines, or distributed
  on a mix of local and remote machines.
  Extensions to this package implement additional backends for
  processing futures via compute cluster schedulers, etc.
  Because of its unified API, there is no need to modify any code in order
  switch from sequential on the local machine to, say, distributed
  processing on a remote compute cluster.
  Another strength of this package is that global variables and functions
  are automatically identified and exported as needed, making it
  straightforward to tweak existing code to make use of futures.
License: LGPL (>= 2.1)
LazyLoad: TRUE
ByteCompile: TRUE
URL: https://future.futureverse.org, https://github.com/HenrikBengtsson/future
BugReports: https://github.com/HenrikBengtsson/future/issues
RoxygenNote: 7.1.2
Roxygen: list(markdown = TRUE)

Found in path(s):
* /opt/cola/permits/1271961303_1645142519.38/0/future-develop-zip/future-develop/DESCRIPTION
```

1.552 error_prone_annotations 2.11.0

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Found in path(s):
* /opt/cola/permits/1272059458_1644966512.83/0/error-prone-annotations-2-11-0-jar/META-INF/maven/com.google.errorprone/error_prone_annotations/pom.xml

1.553 workerpool 6.2.0

1.553.1 Available under license :

```
/**
* workerpool.js
* https://github.com/josdejong/workerpool
*
* Offload tasks to a pool of workers on node.js and in the browser.
*
* @version 6.2.0
* @date    2022-01-15
*
* @license
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1.554 minimatch 3.1.2

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1.555 itsdangerous 2.1.0

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1.556 jackson-jaxrs-base 2.9.9

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1.560 go-git-gcfg 1.5.0

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1.561 jul-to-slf4j 1.7.36

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* /opt/cola/permits/1281455938_1646319090.87/0/jul-to-slf4j-1-7-36-sources-jar/org/slf4j/bridge/SLF4JBridgeHandler.java

1.562 brace-expansion 2.0.1

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1.563 spf13-pflag 1.0.1

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1.564 log4j-over-slf4j 1.7.36

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1.565 container-storage-interface-spec 1.5.0

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1.566 go-jmespath 0.4.0

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1.567 xstrings 1.3.2

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1.572 tablewriter 0.0.5

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1.573 mitchellh-copystructure 1.2.0

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1.585 google-golang-org-appengine 1.6.7

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1.586 github.com/godbus/dbus/v5 5.0.4

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1.587 migrate 4.7.0

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1.588 golang-glog 1.0.0

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1.589 shibumi-go-pathspec 1.3.0

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1.596 github.com/cockroachdb/redact 1.1.3

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1.597 sprig 2.22.0+incompatible

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1.603 github.com/thanos-community/galaxycache 0.0.0-

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1.604 mmap-go 1.1.0

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1.609 glob 0.2.3

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1.610 golang-protobuf-extensions 1.0.2-0.20181231171920-c182affec369

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1.611 logfmt 0.5.0

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1.612 fsnotify 1.4.7

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1.613 goexpect 0.0.0-20210430020637-ab937bf7fd6f

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1.614 go-colorable 0.1.8

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1.615 color 1.10.0

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1.616 lumberjack 2.0.0

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1.617 prometheus-client 0.9.0

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1.618 cmux 0.1.5

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#
# Auto-generated with:
#  git log --oneline --pretty=format:'%an <%aE>' | sort -u
#
Andreas Jaekle <andreas@jaekle.net>
Dmitri Shuralyov <shurcooL@gmail.com>
Ethan Mosbaugh <emosbaugh@gmail.com>
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Soheil Hassas Yeganeh <soheil@cs.toronto.edu>
Tamir Duberstein <tamir@cockroachlabs.com>
Tamir Duberstein <tamird@gmail.com>
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1.619 gorilla-websocket 1.4.2

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1.621 gorilla-websocket 1.5.0

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```
--
-- Accedian Enterprise Specific MIB: Structure of Management Information
--
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--


ACCEDIAN-SMI DEFINITIONS ::= BEGIN

IMPORTS
  MODULE-IDENTITY, OBJECT-IDENTITY, OBJECT-TYPE, NOTIFICATION-TYPE, enterprises
     FROM SNMPv2-SMI
  MODULE-COMPLIANCE, OBJECT-GROUP, NOTIFICATION-GROUP
     FROM SNMPv2-CONF;

accedianMIB MODULE-IDENTITY
  LAST-UPDATED "200608060100Z"
```

```
  ORGANIZATION "Accedian Networks, Inc."
  CONTACT-INFO
        "Accedian Technical Assistance Center
         Accedian Networks, Inc.
         2351 Alfred-Nobel blvd., Suite N-410
         Saint-Laurent, Quebec Canada H4S 2A9
         E-mail: support@accedian.com"
  DESCRIPTION
        "The Structure of Management Information for Accedian Networks."

  REVISION "200608060100Z"
      -- 6 Aug 2006
  DESCRIPTION
        "Initial version of MIB module ACCEDIAN-SMI."

  ::= { enterprises 22420 }

--
-- Accedian MIB tree structure
--

acdProducts OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "The root of Accedian's Product OIDs."
  ::= { accedianMIB 1 }

acdMibs OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "The root of Accedian's MIB objects."
  ::= { accedianMIB 2 }

acdTraps OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "The root of Accedian's Trap OIDs."
  ::= { accedianMIB 3 }

  id OBJECT IDENTIFIER ::= {acdTraps 1}

  objectId OBJECT-TYPE
     SYNTAX OCTET STRING (SIZE (0..255))
     MAX-ACCESS  read-write
     STATUS current
     DESCRIPTION
        "The Monitored Object Id in Skylight Analytics"
     ::= {acdTraps 2}
```

```
skylightObjectName OBJECT-TYPE
   SYNTAX OCTET STRING (SIZE (0..255))
   MAX-ACCESS  read-write
   STATUS current
    DESCRIPTION
      "The Monitored Object Name in Skylight Analytics"
   ::= {acdTraps 3}

objectType OBJECT-TYPE
   SYNTAX OCTET STRING (SIZE (0..255))
   MAX-ACCESS  read-write
   STATUS current
   DESCRIPTION
      "The Monitored Object Type in Skylight Analytics"
   ::= {acdTraps 4}

direction OBJECT-TYPE
   SYNTAX OCTET STRING (SIZE (0..255))
   MAX-ACCESS  read-write
   STATUS current
   DESCRIPTION
      "Direction of measurement"
   ::= {acdTraps 5}

policy OBJECT-TYPE
   SYNTAX OCTET STRING (SIZE (0..255))
   MAX-ACCESS  read-write
   STATUS current
   DESCRIPTION
      "The ID of AlertPolicy hat was used to trigger this Alert"
   ::= {acdTraps 6}

metric OBJECT-TYPE
   SYNTAX OCTET STRING (SIZE (0..255))
   MAX-ACCESS  read-write
   STATUS current
   DESCRIPTION
      "The assoicated metric"
   ::= {acdTraps 7}

 alertType OBJECT-TYPE
   SYNTAX OCTET STRING (SIZE (0..255))
   MAX-ACCESS  read-write
   STATUS current
   DESCRIPTION
      "The alert type"
   ::= {acdTraps 8}
```

```
source OBJECT-TYPE
   SYNTAX OCTET STRING (SIZE (0..255))
   MAX-ACCESS  read-write
   STATUS current
   DESCRIPTION
      "The entity that detected the alert"
   ::= {acdTraps 9}

processedTime OBJECT-TYPE
   SYNTAX OCTET STRING (SIZE (0..255))
   MAX-ACCESS  read-write
   STATUS current
   DESCRIPTION
      "The time when this alert was processed"
   ::= {acdTraps 10}

startTime OBJECT-TYPE
   SYNTAX OCTET STRING (SIZE (0..255))
   MAX-ACCESS  read-write
   STATUS current
   DESCRIPTION
      "The time when this alert actually started"
   ::= {acdTraps 11}

timestamp OBJECT-TYPE
   SYNTAX OCTET STRING (SIZE (0..255))
   MAX-ACCESS  read-write
   STATUS current

  DESCRIPTION
      "The trap timestamp"
   ::= {acdTraps 12}

policyName OBJECT-TYPE
   SYNTAX OCTET STRING (SIZE (0..255))
   MAX-ACCESS  read-write
   STATUS current
   DESCRIPTION
      "The name of the policy that was configured to raise the alert"
   ::= {acdTraps 13}

alertState OBJECT-TYPE
   SYNTAX OCTET STRING (SIZE (0..255))
   MAX-ACCESS  read-write
   STATUS current
   DESCRIPTION
      "The current alert state"
```

```
    ::= {acdTraps 14}

thresholdValue OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE (0..255))
    MAX-ACCESS  read-write
    STATUS current
    DESCRIPTION
        "The configured  threshold value"
    ::= {acdTraps 15}


metaDataKey1 OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE (0..255))
    MAX-ACCESS  read-write
    STATUS current
    DESCRIPTION
        "Alert Metadata Key Name 1"
    ::= {acdTraps 16}

metaDataKey2 OBJECT-TYPE
     SYNTAX OCTET STRING (SIZE (0..255))
    MAX-ACCESS  read-write
    STATUS current
    DESCRIPTION
        "Alert Metadata Key Name 2"
    ::= {acdTraps 17}

metaDataKey3 OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE (0..255))
    MAX-ACCESS  read-write
    STATUS current
    DESCRIPTION
        "Alert Metadata Key Name 3"
    ::= {acdTraps 18}

metaDataKey4 OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE (0..255))
    MAX-ACCESS  read-write
    STATUS current
    DESCRIPTION
        "Alert Metadata Key Name 4"
    ::= {acdTraps 19}

metaDataKey5 OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE (0..255))
    MAX-ACCESS  read-write
    STATUS current
    DESCRIPTION
```

```
        "Alert Metadata Key Name 5"
    ::= {acdTraps 20}

  metaDataVal1 OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE (0..255))
    MAX-ACCESS  read-write
    STATUS current
    DESCRIPTION
        "Alert Metadata
 Value 1"
    ::= {acdTraps 21}

  metaDataVal2 OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE (0..255))
    MAX-ACCESS  read-write
    STATUS current
    DESCRIPTION
        "Alert Metadata Value 2"
    ::= {acdTraps 22}

  metaDataVal3 OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE (0..255))
    MAX-ACCESS  read-write
    STATUS current
    DESCRIPTION
        "Alert Metadata Value 3"
    ::= {acdTraps 23}

  metaDataVal4 OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE (0..255))
    MAX-ACCESS  read-write
    STATUS current
    DESCRIPTION
        "Alert Metadata Value 4"
    ::= {acdTraps 24}

  metaDataVal5 OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE (0..255))
    MAX-ACCESS  read-write
    STATUS current
    DESCRIPTION
        "Alert Metadata Value 5"
    ::= {acdTraps 25}

acdTrapsConformance OBJECT IDENTIFIER ::= { acdTraps 500 }

acdTrapsCompliances  OBJECT IDENTIFIER ::= { acdTrapsConformance
```

```
 1 }
acdTrapsGroups       OBJECT IDENTIFIER ::= { acdTrapsConformance 2 }

acdTrapsNotifications OBJECT IDENTIFIER ::= { acdTraps 50 }

acdTrapSkylight NOTIFICATION-TYPE
  OBJECTS  {  objectId,
              skylightObjectName,
              objectType,
              direction,
              policy,
              metric,
              alertType,
              source,
              processedTime,
              startTime,
              timestamp,
              policyName,
              alertState,
              thresholdValue,
              metaDataKey1,
              metaDataKey2,
              metaDataKey3,
              metaDataKey4,
              metaDataKey5,
              metaDataVal1,
              metaDataVal2,
              metaDataVal3,
              metaDataVal4,
              metaDataVal5 }
  STATUS      current
  DESCRIPTION
     "The SNMP trap that is generated by Skylight Analytics
     when a policies threshold
 is crossed"

  ::= { acdTrapsNotifications 1 }


acdTrapsSkylightGroup OBJECT-GROUP
  OBJECTS {   objectId,
              skylightObjectName,
              objectType,
              direction,
              policy,
              metric,
              alertType,
              source,
```

```
            processedTime,
            startTime,
            timestamp,
            policyName,
            alertState,
            thresholdValue,
            metaDataKey1,
            metaDataKey2,
            metaDataKey3,
            metaDataKey4,
            metaDataKey5,
            metaDataVal1,
            metaDataVal2,
            metaDataVal3,
            metaDataVal4,
            metaDataVal5
    }
    STATUS      current
    DESCRIPTION
      "."
    ::= { acdTrapsGroups 1 }


acdTrapsSkylightNotificationsGroup NOTIFICATION-GROUP
    NOTIFICATIONS {
      acdTrapSkylight
    }
    STATUS      current
    DESCRIPTION
      "Objects for Skylight Notifications group."
    ::= { acdTraps 100 }

acdTrapsSkylightComplience MODULE-COMPLIANCE
    STATUS      current
    DESCRIPTION
      "The compliance statement for support of the skylight module."
    MODULE
      MANDATORY-GROUPS {
        acdTrapsSkylightGroup,
        acdTrapsSkylightNotificationsGroup
      }
    ::= { acdTrapsCompliances 1}

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--  products for SNMP modules containing experimental MIB definitions.
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--    1) IETF work-in-process MIBs which have not been assigned a permanent
--       object identifier by the IANA.
```

```
--    2) Accedian work-in-process MIBs that have not achieved final
--       production quality or field experience.
--   NOTE: Support for MIBs under the this OID subtree is temporary and
--         changes to objects may occur without notice."

acdExperiment  OBJECT IDENTIFIER ::=
 { accedianMIB 4 }

acdServices OBJECT-IDENTITY
   STATUS  current
   DESCRIPTION
         "The root of Accedian's Services OIDs."
   ::= { accedianMIB 5 }



END
```

Found in path(s):
* /opt/cola/permits/1329091805_1736774020.4675434/0/adh-roadrunner-0-580-0-tar-gz/adh-roadrunner-0.580.0/mibs/ACCEDIAN-SMI.mib
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* /opt/cola/permits/1329091805_1736774020.4675434/0/adh-roadrunner-0-580-0-tar-gz/adh-roadrunner-0.580.0/main.go
* /opt/cola/permits/1329091805_1736774020.4675434/0/adh-roadrunner-0-580-0-tar-gz/adh-roadrunner-0.580.0/cmd/data.go
* /opt/cola/permits/1329091805_1736774020.4675434/0/adh-roadrunner-0-580-0-tar-gz/adh-roadrunner-0.580.0/cmd/root.go
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* /opt/cola/permits/1329091805_1736774020.4675434/0/adh-roadrunner-0-580-0-tar-gz/adh-roadrunner-0.580.0/cmd/version.go
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* /opt/cola/permits/1329091805_1736774020.4675434/0/adh-roadrunner-0-580-0-tar-gz/adh-roadrunner-0.580.0/cmd/embedded.go
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* /opt/cola/permits/1329091805_1736774020.4675434/0/adh-roadrunner-0-580-0-tar-gz/adh-roadrunner-0.580.0/datasources/openMetricsParsing.go

1.622 go-sysconf 0.3.10

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```
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1.627 semantic-version 2.10.0

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1.628 kubernetes-apimachinery 0.23.4

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1.629 tdb 1.46.5

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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
 @echo " MKDIR pic"
 @mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:  $(BSD_LIB)

$(BSD_LIB): $(OBJS)
 (cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
 $(MV) pic/$(BSD_LIB) .
 $(RM) -f ../$(BSD_LIB)
 (cd ..; $(LN) $(LINK_BUILD_FLAGS) \
  `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
 @echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
 @$(INSTALL_PROGRAM) $(BSD_LIB) \
  $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
 @-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs
```

```
uninstall-shlibs uninstall::
 $(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
 $(RM)
 -rf pic
 $(RM) -f $(BSD_LIB)
 $(RM) -f ../$(BSD_LIB)
```

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==========
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
 /*
-   Unix SMB/CIFS implementation.
+   trivial database library - standalone version

-   trivial database library - private includes
-
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Gadi Oxman, August 1995

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Theodore Ts'o
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That's all there is to it!
This is the Debian GNU/Linux prepackaged version of the EXT2 file
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the ss
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This package was put together by Yann Dirson <dirson@debian.org>,
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1.630 globintersection 0.1.0

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1.638 berkeley-db 5.3.28+dfsg1-0.8ubuntu3

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The "Library", below, refers to any such software library or work

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in the event an application does not supply such function or
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its purpose remains meaningful.

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1.641 libffi 3.4.2-4

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1.646 findutils 4.8.0-1ubuntu3

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That's all there is to it!

1.652 pcre 8.39-13ubuntu0.22.04.1

1.652.1 Available under license :

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THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
Email local part: ph10
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1.653 libtasn 4.18.0-4build1

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1.657 bzip2 1.0.8-5build1

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

1.658 libsepol2 3.3-1build1

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1.659 sed 4.8-1ubuntu2

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If the program does terminal interaction, make it output a short
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1.660 keyutils 1.6.1-2ubuntu3

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Appendix: How to Apply These Terms to Your New Programs

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the

Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of
Section 6.
Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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* /opt/cola/permits/1343603013_1655136462.2288256/0/debianutils-5-5-orig-tar-xz/debianutils-5.5/po4a/de/run-parts.8

1.663 acl 2.3.1-1

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1.665 grep 3.7-1build1

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1.672 tdb 1.46.5

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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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This is the Debian GNU/Linux prepackaged version of the static EXT2
file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
<card@masi.ibp.fr>.

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```
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
 @echo " MKDIR pic"
 @mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:  $(BSD_LIB)

$(BSD_LIB): $(OBJS)
 (cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
 $(MV) pic/$(BSD_LIB) .
 $(RM) -f ../$(BSD_LIB)
 (cd ..; $(LN) $(LINK_BUILD_FLAGS) \
  `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
 @echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
 @$(INSTALL_PROGRAM) $(BSD_LIB) \
  $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
 @-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
 $(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
 $(RM)
 -rf pic
 $(RM) -f $(BSD_LIB)
 $(RM) -f ../$(BSD_LIB)
```

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This is the Debian GNU/Linux prepackaged version of the translation
files of the EXT2 file system utilities. The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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Index: tdbsa/tdb.c
==========
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
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Gadi Oxman, August 1995

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Theodore Ts'o
23-June-2007

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library,
or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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That's all there is to it!
This is the Debian GNU/Linux prepackaged version of the EXT2 file
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library. It is currently
distributed together with the EXT2 file system utilities, which are
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This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
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1.673 selinux 3.3-1build2

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1.674 libxcrypt 4.4.27-1

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man/bitstring.3bsd
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1.679 liblocale-gettext-perl 1.07-4build3

1.679.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
---
abstract: 'Perl bindings for POSIX i18n gettext functions'
author:
 - 'Kim Vandry <vandry.ORG>'
build_requires:
 ExtUtils::MakeMaker: 0
configure_requires:
 ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.66, CPAN::Meta::Converter version 2.120921'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: 1.4
name: Locale-gettext
no_index:
 directory:
   - t
   - inc
```

requires: {}
resources:
 license: http://dev.perl.org/licenses/
 repository: https://github.com/vandry/Perl-Locale-gettext
version: 1.07

Found in path(s):
* /opt/cola/permits/1343982498_1655185891.8647282/0/liblocale-gettext-perl-1-07-orig-1-tar-gz/Locale-gettext-1.07/META.yml
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Locale::gettext
version 1.07

This is a perl5 module quickly written to gain access to
the C library functions for internatialization. They
work just like the C versions.

As of version 1.04, an object oriented interface more
suitable to native Perl programs is available.

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specified in the Perl README file.

Changes

1.07 Fix test failures caused by $LANGUAGE being set

1.06 Bugfix: #104667 Makefile.PL libaries need to be listed after .o files
 Bugfix: #104668 ensure availability of locale API, correct typo in documentation
 Add META.yml (Fixes #91921)

1.05 Bugfix: [cpan #13042] useless #ifdef should be #if
 Bugfix: [cpan #13044] make test fails when using POSIX locale

1.04 Add several
 functions provided by the GNU gettext library
 Create object oriented interface

1.03 Fix error in README file

1.02 Include a License

1.01 Changed from "gettext" to "Locale::gettext" (i.e.
 moved under Locale::) on the advice of several
 people

 Small "lint" fix from schwern@starmedia.net

1.00 Initial version

TODO

A TIEHASH interface

Here's a quick tutorial.

Note that your vendor's implementation of these functions
may be a bit different, but I think that in general these
are quite standard POSIX functions.

Kim Vandry <vandry@TZoNE.ORG>
Mlink Internet <http://www.Mlink.NET>
July 1996

INTERNATIONALIZING YOUR PROGRAM

Step 1

If you've already written your code, you need to
wrap the gettext() function around all of the
text strings. Needless to say, this is much easier if
you do it while you write.

```
# create object for oo interface
my $d = Locale::gettext->domain("my_program");

print "Welcome to my program\n";

# oo
print $d->get("Welcome
 to my program"), "\n";

# traditional
print gettext("Welcome to my program"), "\n";
```

Note that you probably don't want to include that newline
in the gettext() call, nor any formatting codes such as

HTML tags. The argument to gettext() is the text string
in the default language or locale. This is known as the
C locale and should probably be usually English.

Step 2

Do the apropriate initializations at the beginning of your
program:

```
#
use POSIX;     # for setlocale()
use Locale::gettext;
#
# The following statement initializes the locale handling
# code in the C library. Normally, it causes it to read
# in the environment variables that determine the current
# locale.
#
# The first parameter is the category you would
# like to initialize locale information for. You can use
# LC_ALL for this, which will set locale information for
# all categories, including LC_CTYPE, LC_TIME, LC_NUMERIC,
# etc..
#
# I recommend that you set only LC_MESSAGES (text strings)
# or LC_CTYPE (character
 sets) and LC_TIME (time
# conventions) too at most. You may find that if you set
# LC_NUMERIC or some other categories, you will start
# outputting decimal numbers with strange thousand separators
# and decimal points and they will be unparseable in
# other countries.
#
# The second parameter is the locale name. If it is an
# empty string, then this information will be fetched from
# environment variables.
#
# Note that setlocale() will cause every part of your
# program to start operating in the new, non default (C)
# locale, including C library functions. So don't be
# surprised if POSIX::ctime returns "Montag, 22. Juli 1996,
# 12:08:25 Uhr EDT" instead of "Mon Jul 22 12:08:25 EDT 1996"
# If you set LC_TIME or LC_ALL using setlocale().
#
setlocale(LC_MESSAGES, "");
#
# Decide on a unique identifier that will distinguish your
```

```
# program's text strings in the LC_MESSAGES database. This
# would usually be the name of your program
#
# By default, locale information is found in OS dependant
#
 system directories such as /usr/lib/locale, or any directory
# found in the $PATH-like environment variable $NLSPATH.
# I recommend that you do _not_ install files in /usr. If
# your program is installed in a directory tree such as
# /opt/my_package_name/{bin,man,lib,etc}, then you could
# use /opt/my_package_name/locale to store locale information
# specific to your program, or you could put in somewhere
# in /usr/local/lib.
#
# Wherever you put it, if it is not one of the default
# directories, you will need to call bindtextdomain() to
# tell the library where to find your files. The first
# parameter is your database's identifier that you chose
# above.
#
# oo interface:

my $d = Locale::gettext->domain("my_domain");
$d->dir("/opt/my_package_name/locale");

# traditional interface:
bindtextdomain("my_domain", "/opt/my_package_name/locale");
textdomain("my_domain");

# That's it for the initializations
```

Step 3

Test to see if your program still works after all these
 mods :-)

Step 4

TRANSLATE!

Read msgfmt(1) for details on this. Basically, for each locale
other than the default, you need to create a file like this:
(Note: I do not speak German, I'm making an attempt here :-)
Call this file with the .po extension.

--BEGIN

```
domain "my_domain"

msgid  "Welcome to my program"
msgstr "Willkommen in mein Program"

msgid  "Help"
msgstr "Hilfe"
--END
```

The "msgid" parameter must match exactly the argument to the gettext() function, and "msgstr" is the corresponding translation.

You can use the xgettext(1) utility to initially construct this file from all of the gettext() calls in your source code. It was designed for C but it works OK with perl.

Step 5

Compile the .po file

```
$ msgfmt my_file.po
```

This will create a file called my_domain.mo (default messages.mo) which you should place in the <locale>/LC_MESSAGES/my_domain.mo subdirectory of either a system default directory, a directory in $NLSPATH, or the directory argument to bindtextdomain().
Replace
 <locale> with the name of the locale for which this file is created.

For example:

```
$ mkdir -p /opt/my_package/locale/de/LC_MESSAGES
$ mkdir -p /opt/my_package/locale/fr/LC_MESSAGES
$ cd /path/to/my/source/code
$ cd de
$ msgfmt my_domain.po
$ mv my_domain.mo /opt/my_package/locale/de/LC_MESSAGES
$ cd ../fr
$ msgfmt my_domain.po
$ mv my_domain.mo /opt/my_package/locale/fr/LC_MESSAGES
```

Step 6

Test it out

$ my_program
Welcome to my program
$ LANG=fr my_program
Bienvenue à mon programme
$ LANG=de my_program
Willkommen in mein Program

(Or, set only the messages category instead of the whole locale)

$ LC_MESSAGES=fr
$ export LC_MESSAGES
$ my_program
Bienvenue à mon programme

Found in path(s):
* /opt/cola/permits/1343982498_1655185891.8647282/0/liblocale-gettext-perl-1-07-orig-1-tar-gz/Locale-gettext-1.07/README

1.680 gdbm 1.23-1

1.680.1 Available under license :

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1.685 libpng 1.6.37-3build5

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1.689 npth 1.6-3build2

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1.690 patch 2.7.6-7build2

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1.697 libdeflate 1.10-2

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1.698 libjpeg 8c-2ubuntu10

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1.700 go-hclog 1.2.0

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1.701 sphinx 4.3.2-1

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1.704 go-grpc-prometheus 1.2.0

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1.705 go-kit-log 0.2.1

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1.706 go-pkcs12 0.2.0

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1.710 python-certifi 2020.06.20

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
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@(#) $RCSfile: certdata.txt,v $
$Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.711 listenablefuture 9999.0-empty-to-avoid-conflict-with-guava

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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* Regular
expression support

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1986 John Gilmore hoptoad!gnu
1987 James A. Woods ames!jaw
1993 Christopher Seiwald seiwald@vix.com
2000, 2002 Christopher Seiwald <seiwald@perforce.com>
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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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1.718 go.starlark.net 0.0.0-20220328144851-d1966c6b9fcd

1.718.1 Available under license :

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1.719 aws-sdk-go-v2 1.16.2

1.719.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
```

```
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
```

```
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
```

```
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
```

```
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string
```

```
 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err
 = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack,
 options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
```

```
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil
 {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
```

```
      with:
        path: new-ref
        fetch-depth: 0
    - name: Get Diff
      run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
    - name: Get Target Files
      run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
       uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
```

```
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
```

```
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity *types.DatetimeRange

 //
 Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
```

```
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
```

```
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
```

```
 return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
```

```
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {
```

```
 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
```

```
 if
 err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
```

```
 }
}
```

AWS SDK for Go

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```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
```

```
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string
```

```
 //
 Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err
 != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
```

```
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return
 nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
```

```
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}
```

```
type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
 err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

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```
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package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if
```

```
err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}
```

1.720 gonum 0.11.0

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1.721 shared-mime-info 2.1-2

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1.724 libedit 3.1-20210910-1build1

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference

directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.728 libmnl 1.0.4-3build2

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application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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When a "work that uses the Library" uses material from a header file
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Otherwise, if the work is a derivative of the Library, you may
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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1.729 xauth 1.1-1build2

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1.735 libmaxminddb 1.5.2-1build2

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1.736 libicu70 70.1-2

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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
```

```
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation
 rules
%.$(STATIC_O): $(srcdir)/%.c
 $(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
 $(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
 $(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
 $(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<


## Dependency rules
%.d: $(srcdir)/%.c
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.c) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.cc) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'
```

```
## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
 $(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
 $(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

##  Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup
```

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1.737 elfutils 0.186-1build1

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1.738 icu 70.1-2

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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
```

```
STATIC_O = ao

## Compilation
 rules
%.$(STATIC_O): $(srcdir)/%.c
 $(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
 $(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
 $(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
 $(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<


## Dependency rules
%.d: $(srcdir)/%.c
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.c) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.cc) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
 $(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
 $(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

##  Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup
```

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 * snprintf.c - a portable implementation of snprintf
*
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3GPP TS 26.073
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*

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1.753 publicsuffix-go 0.15.1-0.20210511084619-b1f36a2d6c0b

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1.754 x-crypto 0.0.0-20220722155217-630584e8d5aa

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1.755 github.com/go-kit/log 0.2.1

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1.756 libtirpc 1.3.2-2ubuntu0.1

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1.757 kubernetes-client 0.23.3

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1.758 influxdata-tail 1.0.1-0.20210707231403-b283181d1fa7

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1.759 kubernetes-api 0.23.4

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1.761 sqlx 1.3.5

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1.768 ruamel-yaml 0.15.89-3build1

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1.775 pep517 0.12.0

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1.776 idna 3.3

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1.777 libterm-readkey-perl 2.38-1build4

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Term::ReadKey 2.36 - Change terminal modes, and perform non-blocking reads.

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This module, ReadKey, provides ioctl control for terminals and Win32 consoles
so the input modes can be changed (thus allowing reads of a single character at a time), and also provides non-blocking reads of stdin, as well as several other terminal related features, including retrieval/modification of the screen size, and retrieval/modification of the control characters. Installation requires MakeMaker 3.5 or higher (MakeMaker 3.7 is included with perl 5.001, so now is a good time to upgrade if you haven't already.)

To install, unpack somewhere, type "perl Makefile.PL", and then "make test". If the compilation and the tests are successful, then change to root and run "make install".

As of 2.17 the interactive test has been removed as the default for the convenience of automated installers, CPAN-Testers and so on. The non interactive tests whilst confirming that the module has built correctly and has a good chance of working correctly cannot determine whether the effect as observed on the screen is correct so you might want to run:

```
perl -Mblib
example/test.pl interactive
```

before you run 'make install'.

Also from 2.17 this module has to provide its own support for compilers that can't take function prototypes as with Perl 5.8.0 this last vestige of support for non-ANSI compilers will disappear. The requirement for an ANSI C compiler has been present since Perl 5.005 so it is likely that

at some point in the future this module will follow that requirement too.
If you have any difficulties with older Perl's please contact the maintainer.

The module has support for Win32 since version 2.10. Version 2.17 has been tested with ActivePerl build 623 and Visual Studio 6 and found to work as expected, but do not be surprised if it fails with another compiler or distribution. There are some limitations, with the ReadLine call being unavailable, and ReadKey possibly generating bad results if you are reading from multiple consoles, and key repeat is used. For Win32 users without a C compiler there is a precompiled version of this module available
as a package for ActivePerl, it is probably a few versions behind the latest release but has been reported to work well.

VERY IMPORTANT: In 2.00, the ReadKey/ReadLine arguments changed. Now, if you want a call that is non-blocking and returns immediately if no character is waiting, please call it with -1, instead of 1. Positive arguments now indicate a timeout, so 1 would wait a second before timing out.

As older versions will accept -1, it is reccomended to change all code that uses ReadMode.

The terminal mode function is controlled by the "ReadMode" function, which takes a single numeric argument, and an optional filehandle. This argument should be one of the following:

0: (Reset) Restore original settings.

1: (Cooked) Change to what is commonly the default mode, echo on, buffered, signals enabled, Xon/Xoff possibly enabled, and 8-bit mode possibly disabled.

2: (Cooked-Invisible) Same as 1, just with echo off. Nice for reading passwords.

3:
(CBreak) Echo off, unbuffered, signals enabled, Xon/Xoff possibly enabled, and 8-bit mode possibly enabled.

4: (Raw) Echo off, unbuffered, signals disabled, Xon/Xoff disabled, and 8-bit mode possibly disabled.

5: (Really-Raw) Echo off, unbuffered, signals disabled, Xon/Xoff disabled, 8-bit mode enabled if parity permits, and CR to CR/LF translation turned off.

If you just need to read a key at a time, then modes 3 or 4 are probably sufficient. Mode 4 is a tad more flexible, but needs a bit more work to control. If you use ReadMode 3, then you should install a SIGINT or END handler to reset the terminal (via ReadMode 0) if the user aborts the program via ^C. (For any mode, an END handler consisting of "ReadMode 0" is actually a good idea.)

Non-blocking support is provided via the ReadKey and ReadLine functions. If they are passed no argument, or an argument of zero, they will act like a normal getc(STDIN) or scalar(<STDIN>). If they are passed a negative argument, then they will immediatly return undef if no input is present. If passed a positive argument, then they will wait until that time in seconds has passed before returning undef. In most situations, you will probably want to use "ReadKey -1".

Note that a non-blocking ReadLine probably won't do what you expect, although it is perfectly predictable, and that the ReadMode will have to be 1 or 0 for it to make sense at all.

A routine is also provided to get the current terminal size, "GetTerminalSize". This will either return a four value array containing the width and height of the screen in characters and then in pixels, or nothing (if the OS can't return that info). SetTerminalSize allows the stored settings to be modified. Note that this does _not_ change the physical size of the screen, it will only change the size reported by GetTerminalSize, and other programs that check the terminal size in the same manner.

GetControlChars returns a hash containing all of the valid control characters, such as ("INTERRUPT" => "\x3", etc.). SetControlChars takes an array (or a hash) as a parameter that should consist of similar name/value pairs and will modify the control character settings.

Note that it is entirely possible that there are portability problems with the routines in ReadKey.xs. If you find any problems, including compilation failures, or control characters not supported by Set/GetControlChars, _please_ tell me about them, by mailing the maintainer at jns@gellyfish.co.uk, or lastly contacting perl5-porters@perl.org. Any problems will get fixed if at all possible, but that's not going to happen if I don't know about them.

The code is available at https://github.com/jonathanstowe/TermReadKey so as ever patches are kindly welcomed, especially for platforms such as Windows that I am unable to test on.

Oh, you may also be interested in the Configure.pm module. It provides tools to make porting stuff easier -- calling the compiler,

finding headers, etc.
It contains documentation inside it, and you are welcome to use it in your
own modules. If you make use of it, I'd be grateful for a message sent to
the above address.

Found in path(s):
* /opt/cola/permits/1402400313_1661783000.2195435/0/libterm-readkey-perl-2-38-orig-1-tar-gz/TermReadKey-2.38/README
No license file was found, but licenses were detected in source scan.

```
#! perl

package Term::ReadKey;

# This also needs to be adjusted in the generated code below
# and in the Makefile.PL
use vars qw($VERSION);

$VERSION = '2.38';

use Config;
use File::Basename qw(&basename &dirname);
use File::Spec;
use Cwd;

# List explicitly here the variables you want Configure to
# generate.  Metaconfig only looks for shell variables, so you
# have to mention them as if they were shell variables, not
# %Config entries.  Thus you write
#  $startperl
# to ensure Configure will look for $Config{startperl}.
# Wanted:  $archlibexp

# This forces PL files to create target in same directory as PL file.
# This is so that make depend always knows where to find PL derivatives.
my $origdir = cwd;
my $dir = dirname($0);
chdir $dir;
my $file = 'ReadKey.pm';

open OUT, ">", $file or die "Can't create $file: $!";

print "Creating $file\n";

print OUT <<'!FIRSTPART';
# -*- buffer-read-only: t -*-
#
# This file
```

```
 is auto-generated. ***ANY*** changes here will be lost
#
package Term::ReadKey;

use strict;
use warnings;

=head1 NAME

Term::ReadKey - A perl module for simple terminal control

=head1 SYNOPSIS

  use Term::ReadKey;
  ReadMode 4; # Turn off controls keys
  while (not defined ($key = ReadKey(-1))) {
     # No key yet
  }
  print "Get key $key\n";
  ReadMode 0; # Reset tty mode before exiting

=head1 DESCRIPTION

Term::ReadKey is a compiled perl module dedicated to providing simple
control over terminal driver modes (cbreak, raw, cooked, etc.,) support for
non-blocking reads, if the architecture allows, and some generalized handy
functions for working with terminals. One of the main goals is to have the
functions as portable as possible, so you can just plug in "use
Term::ReadKey" on any architecture and have a good likelihood of it working.

Version 2.30.01:
Added handling of arrows, page up/down, home/end, insert/delete keys
under Win32. These keys emit xterm-compatible
 sequences.
Works with Term::ReadLine::Perl.

=over 4

=item ReadMode MODE [, Filehandle]

Takes an integer argument or a string synonym (case insensitive), which
can currently be one of the following values:

  INT   SYNONYM    DESCRIPTION

  0    'restore'   Restore original settings.

  1    'normal'    Change to what is commonly the default mode,
```

echo on, buffered, signals enabled, Xon/Xoff
possibly enabled, and 8-bit mode possibly disabled.

2 'noecho' Same as 1, just with echo off. Nice for
reading passwords.

3 'cbreak' Echo off, unbuffered, signals enabled, Xon/Xoff
possibly enabled, and 8-bit mode possibly enabled.

4 'raw' Echo off, unbuffered, signals disabled, Xon/Xoff
disabled, and 8-bit mode possibly disabled.

5 'ultra-raw' Echo off, unbuffered, signals disabled, Xon/Xoff
disabled, 8-bit mode enabled
if parity permits,
and CR to CR/LF translation turned off.

These functions are automatically applied to the STDIN handle if no other handle is supplied. Modes 0 and 5 have some special properties worth mentioning: not only will mode 0 restore original settings, but it cause the next ReadMode call to save a new set of default settings. Mode 5 is similar to mode 4, except no CR/LF translation is performed, and if possible, parity will be disabled (only if not being used by the terminal, however. It is no different from mode 4 under Windows.)

If you just need to read a key at a time, then modes 3 or 4 are probably sufficient. Mode 4 is a tad more flexible, but needs a bit more work to control. If you use ReadMode 3, then you should install a SIGINT or END handler to reset the terminal (via ReadMode 0) if the user aborts the program via C<^C>. (For any mode, an END handler consisting of "ReadMode 0" is actually a good idea.)

If you are executing another program
that may be changing the terminal mode,
you will either want to say

```
ReadMode 1;          # same as ReadMode 'normal'
system('someprogram');
ReadMode 1;
```

which resets the settings after the program has run, or:

```
$somemode=1;
ReadMode 0;          # same as ReadMode 'restore'
system('someprogram');
ReadMode 1;
```

which records any changes the program may have made, before resetting the mode.

=item ReadKey MODE [, Filehandle]

Takes an integer argument, which can currently be one of the following values:

```
  0    Perform a normal read using getc
  -1   Perform a non-blocked read
  >0   Perform a timed read
```

If the filehandle is not supplied, it will default to STDIN. If there is nothing waiting in the buffer during a non-blocked read, then undef will be returned. In most situations, you will probably want to use C<ReadKey -1>.

I<NOTE> that if the OS does not provide any known mechanism for non-blocking reads, then a C<ReadKey -1> can die with a fatal
 error. This will hopefully
not be common.

If MODE is greater then zero, then ReadKey will use it as a timeout value in seconds (fractional seconds are allowed), and won't return C<undef> until that time expires.

I<NOTE>, again, that some OS's may not support this timeout behaviour.

If MODE is less then zero, then this is treated as a timeout of zero, and thus will return immediately if no character is waiting. A MODE of zero, however, will act like a normal getc.

I<NOTE>, there are currently some limitations with this call under Windows. It may be possible that non-blocking reads will fail when reading repeating keys from more then one console.

=item ReadLine MODE [, Filehandle]

Takes an integer argument, which can currently be one of the following values:

```
  0    Perform a normal read using scalar(<FileHandle>)
  -1   Perform a non-blocked read
  >0   Perform a timed read
```

If there is nothing waiting in the buffer during a non-blocked read, then undef will be returned.

I<NOTE>,
 that if the OS does not provide any known mechanism for
non-blocking reads, then a C<ReadLine 1> can die with a fatal
error. This will hopefully not be common.

I<NOTE> that a non-blocking test is only performed for the first character
in the line, not the entire line. This call will probably B<not> do what
you assume, especially with C<ReadMode> MODE values higher then 1. For
example, pressing Space and then Backspace would appear to leave you
where you started, but any timeouts would now be suspended.

B<This call is currently not available under Windows>.

=item GetTerminalSize [Filehandle]

Returns either an empty array if this operation is unsupported, or a four
element array containing: the width of the terminal in characters, the
height of the terminal in character, the width in pixels, and the height in
pixels. (The pixel size will only be valid in some environments.)

I<NOTE>, under Windows, this function must be called with an B<output>
filehandle, such as C<STDOUT>,
 or a handle opened to C<CONOUT$>.

=item SetTerminalSize WIDTH,HEIGHT,XPIX,YPIX [, Filehandle]

Return -1 on failure, 0 otherwise.

I<NOTE> that this terminal size is only for B<informative> value, and
changing the size via this mechanism will B<not> change the size of
the screen. For example, XTerm uses a call like this when
it resizes the screen. If any of the new measurements vary from the old, the
OS will probably send a SIGWINCH signal to anything reading that tty or pty.

B<This call does not work under Windows>.

=item GetSpeed [, Filehandle]

Returns either an empty array if the operation is unsupported, or a two
value array containing the terminal in and out speeds, in B<decimal>. E.g,
an in speed of 9600 baud and an out speed of 4800 baud would be returned as
(9600,4800). Note that currently the in and out speeds will always be
identical in some OS's.

B<No speeds are reported under Windows>.

=item GetControlChars [, Filehandle]

Returns an array containing key/value pairs
suitable for a hash. The pairs
consist of a key, the name of the control character/signal, and the value
of that character, as a single character.

B<This call does nothing under Windows>.

Each key will be an entry from the following list:

```
DISCARD
DSUSPEND
EOF
EOL
EOL2
ERASE
ERASEWORD
INTERRUPT
KILL
MIN
QUIT
QUOTENEXT
REPRINT
START
STATUS
STOP
SUSPEND
SWITCH
TIME
```

Thus, the following will always return the current interrupt character,
regardless of platform.

```
%keys = GetControlChars;
$int = $keys{INTERRUPT};
```

=item SetControlChars [, Filehandle]

Takes an array containing key/value pairs, as a hash will produce. The pairs
should consist of a key that is the name of a legal control
character/signal, and the value should be either a single character, or a
number in the range 0-255. SetControlChars will die with a runtime error if
an invalid character name is passed or there is an error changing the
settings. The list of valid names is easily available via

```
%cchars
= GetControlChars();
@cnames = keys %cchars;
```

B<This call does nothing under Windows>.

=back

=head1 AUTHOR

Kenneth Albanowski <kjahds@kjahds.com>

Currently maintained by Jonathan Stowe <jns@gellyfish.co.uk>

=head1 SUPPORT

The code is maintained at

    https://github.com/jonathanstowe/TermReadKey

Please feel free to fork and suggest patches.

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    or fitness for a particular purpose.

=cut

```
use vars qw($VERSION);

$VERSION = '2.38';

require Exporter;
require DynaLoader;

use vars qw(@ISA @EXPORT_OK @EXPORT);

@ISA = qw(Exporter DynaLoader);

# Items to export into callers namespace by default
# (move infrequently used names to @EXPORT_OK below)

@EXPORT = qw(
 ReadKey
 ReadMode
 ReadLine
 GetTerminalSize
 SetTerminalSize
 GetSpeed
 GetControlChars
 SetControlChars
);

@EXPORT_OK = qw();

bootstrap Term::ReadKey;

# Should we use LINES and COLUMNS to try and get the terminal size?
# Change this to zero
 if you have systems where these are commonly
# set to erroneous values. (But if either are near zero, they won't be
# used anyhow.)

use vars qw($UseEnv $CurrentMode %modes);

$UseEnv = 1;

$CurrentMode = 0;

%modes = (                          # lowercase is canonical
   original    => 0,
   restore     => 0,
   normal      => 1,
   noecho      => 2,
   cbreak      => 3,
```

```
   raw         => 4,
   'ultra-raw' => 5
);

# reduce Carp memory footprint, only load when needed
sub croak { require Carp; goto &Carp::croak; }
sub carp  { require Carp; goto &Carp::carp; }

sub ReadMode
{
   my $mode = $modes{ lc $_[0] };  # lowercase is canonical
   my $fh = normalizehandle( ( @_ > 1 ? $_[1] : \*STDIN ) );

   if ( defined($mode) )    { $CurrentMode = $mode }
   elsif ( $_[0] =~ /^\d/ ) { $CurrentMode = $_[0] }
   else                     { croak("Unknown terminal mode `$_[0]'"); }

   SetReadMode($CurrentMode, $fh);
}

sub normalizehandle
{
   my ($file) = @_; # allows fake signature
 optimization

   no strict;
   # print "Handle = $file\n";
   if ( ref($file) ) { return $file; }    # Reference is fine

   # if ($file =~ /^\*/) { return $file; } # Type glob is good
   if ( ref( \$file ) eq 'GLOB' ) { return $file; }    # Glob is good

   # print "Caller = ",(caller(1))[0],"\n";
   return \*{ ( ( caller(1) )[0] ) . "::$file" };
}

sub GetTerminalSize
{
   my $file = normalizehandle( ( @_ > 0 ? $_[0] : \*STDOUT ) );

   my (@results, @fail);

   if ( &termsizeoptions() & 1 )                    # VIO
   {
      @results = GetTermSizeVIO($file);
      push( @fail, "VIOGetMode call" );
   }
   elsif ( &termsizeoptions() & 2 )                  # GWINSZ
```

```
  {
     @results = GetTermSizeGWINSZ($file);
     push( @fail, "TIOCGWINSZ ioctl" );
  }
  elsif ( &termsizeoptions() & 4 )                    # GSIZE
  {
     @results = GetTermSizeGSIZE($file);
     push( @fail, "TIOCGSIZE ioctl" );
  }
  elsif ( &termsizeoptions() & 8
)                   # WIN32
  {
     @results = GetTermSizeWin32($file);
     push( @fail, "Win32 GetConsoleScreenBufferInfo call" );
  }
  else
  {
     @results = ();
  }

  if ( @results < 4 and $UseEnv )
  {
     my ($C) = defined( $ENV{COLUMNS} ) ? $ENV{COLUMNS} : 0;
     my ($L) = defined( $ENV{LINES} )   ? $ENV{LINES}   : 0;
     if ( ( $C >= 2 ) and ( $L >= 2 ) )
     {
        @results = ( $C + 0, $L + 0, 0, 0 );
     }
     push( @fail, "COLUMNS and LINES environment variables" );
  }

  if ( @results < 4 && $^O ne 'MSWin32')
  {
     my ($prog) = "resize";

     # Workaround for Solaris path silliness
     if ( -f "/usr/openwin/bin/resize" ) {
        $prog = "/usr/openwin/bin/resize";
     }

     my ($resize) = scalar(`$prog 2>/dev/null`);
     if (defined $resize
        and (  $resize =~ /COLUMNS\s*=\s*(\d+)/
           or $resize =~ /setenv\s+COLUMNS\s+'?(\d+)/ )
       )
     {
         $results[0] = $1;
        if (   $resize =~ /LINES\s*=\s*(\d+)/
```

```
            or $resize =~ /setenv\s+LINES\s+'?(\d+)/ )
        {
            $results[1] = $1;
            @results[ 2, 3 ] = ( 0, 0 );
        }
        else
        {
            @results = ();
        }
    }
    else
    {
        @results = ();
    }
    push( @fail, "resize program" );
  }

  if ( @results < 4 && $^O ne 'MSWin32' )
  {
    my ($prog) = "stty size";

    my ($stty) = scalar(`$prog 2>/dev/null`);
    if (defined $stty
        and (  $stty =~ /(\d+) (\d+)/ )
       )
    {
        $results[0] = $2;
        $results[1] = $1;
        @results[ 2, 3 ] = ( 0, 0 );
    }
    else
    {
        @results = ();
    }
    push( @fail, "stty program" );
  }

  if ( @results != 4 )
  {
    carp("Unable to get Terminal Size."
         . join( "", map( " The $_ didn't
work.", @fail ) ));
return undef;
  }

  @results;
}
```

```
!FIRSTPART

close OUT;
# preload the XS module needed for the blockoptions() expansions below
# does not work with miniperl
package Term::ReadKey;
require DynaLoader;
our @ISA = qw(DynaLoader);

print "Bootstrapping the XS for blockoptions: ";
bootstrap Term::ReadKey or die;
print blockoptions()."\n";

open OUT, ">>", $file or die "Can't append to $file: $!";
print OUT "# blockoptions: \n";
if ( &blockoptions() & 1 )    # Use nodelay
{
   print OUT "#nodelay\n";
   if ( &blockoptions() & 2 )    #poll
   {
       print OUT <<'!NO!SUBS!';
# poll
sub ReadKey {
 my $File = normalizehandle((@_>1?$_[1]:\*STDIN));
 if (defined $_[0] && $_[0] > 0) {
     if ($_[0]) {
         return undef if &pollfile($File,$_[0]) == 0;
     }
 }
 if (defined $_[0] && $_[0] < 0) { &setnodelay($File,1); }
 my $value = getc $File;
 if (defined $_[0] && $_[0] < 0) { &setnodelay($File,0); }
 $value;
}
sub ReadLine {
   my $File = normalizehandle((@_>1?$_[1]:\*STDIN));
    if (defined $_[0] && $_[0] > 0) {
       if ($_[0]) {
           return undef if &pollfile($File,$_[0]) == 0;
       }
   }
   if (defined $_[0] && $_[0] < 0) { &setnodelay($File,1) };
   my $value = scalar(<$File>);
   if (defined $_[0] && $_[0] < 0) { &setnodelay($File,0) };
   $value;
}
!NO!SUBS!
```

```
   }
   elsif ( &blockoptions() & 4 )    #select
   {
      print OUT <<'!NO!SUBS!';
#select
sub ReadKey {
   my $File = normalizehandle((@_>1?$_[1]:\*STDIN));
   if (defined $_[0] && $_[0] > 0) {
      if ($_[0]) { return undef if &selectfile($File,$_[0]) == 0 }
   }
   if (defined $_[0] && $_[0] < 0) { &setnodelay($File,1); }
   my $value = getc $File;
   if (defined $_[0] && $_[0] < 0) { &setnodelay($File,0); }
   $value;
}
sub ReadLine {
   my $File = normalizehandle((@_>1?$_[1]:\*STDIN));
   if (defined $_[0] && $_[0] > 0) {
      if ($_[0]) { return undef if &selectfile($File,$_[0]) == 0 }
   }
   if (defined $_[0] && $_[0]
 < 0) { &setnodelay($File,1) };
   my $value = scalar(<$File>);
   if (defined $_[0] && $_[0] < 0) { &setnodelay($File,0) };
   $value;
}
!NO!SUBS!

   }
   else
   {    #nothing
      print OUT <<'!NO!SUBS!';
sub ReadKey {
   my $File = normalizehandle((@_>1?$_[1]:\*STDIN));
   if (defined $_[0] && $_[0] > 0) {
    # Nothing better seems to exist, so I just use time-of-day
    # to timeout the read. This isn't very exact, though.
    $starttime = time;
    $endtime = $starttime + $_[0];
      &setnodelay($File,1);
      my $value;
    while (time < $endtime) { # This won't catch wraparound!
         $value = getc $File;
         last if defined($value);
    }
      &setnodelay($File,0);
      return $value;
   }
```

```
   if (defined $_[0] && $_[0] < 0) { &setnodelay($File,1); }
   my $value = getc $File;
   if (defined $_[0] && $_[0] < 0) { &setnodelay($File,0); }
   $value;
}
sub ReadLine {
   my $File = normalizehandle((@_>1?$_[1]:\*STDIN));
   if
 (defined $_[0] && $_[0] > 0) {
    # Nothing better seems to exist, so I just use time-of-day
    # to timeout the read. This isn't very exact, though.
    $starttime = time;
    $endtime = $starttime + $_[0];
       &setnodelay($File,1);
       my $value;
    while (time < $endtime) { # This won't catch wraparound!
           $value = scalar(<$File>);
           last if defined($value);
    }
       &setnodelay($File,0);
       return $value;
   }
   if (defined $_[0] && $_[0] < 0) { &setnodelay($File,1) };
   my $value = scalar(<$File>);
   if (defined $_[0] && $_[0] < 0) { &setnodelay($File,0) };
   $value;
}
!NO!SUBS!

   }
}
else {
   print OUT "#no nodelay\n";

   if ( &blockoptions() & 2 )    # Use poll
   {
       print OUT <<'!NO!SUBS!';
#poll
sub ReadKey {
   my $File = normalizehandle((@_>1?$_[1]:\*STDIN));
   if (defined $_[0] && $_[0] != 0) {
       return undef if &pollfile($File,$_[0]) == 0
   }
   getc $File;
}
sub ReadLine {
   my $File = normalizehandle((@_>1?$_[1]:\*STDIN));
```

```
    if (defined $_[0] && $_[0] != 0 ) {
        return undef if &pollfile($File,$_[0]) == 0;
    }
    scalar(<$File>);
}
!NO!SUBS!

    }
    elsif ( &blockoptions() & 4 )    # Use select
    {
        print OUT <<'!NO!SUBS!';
#select
sub ReadKey {
    my $File = normalizehandle((@_>1?$_[1]:\*STDIN));
    if (defined $_[0] && $_[0] != 0) {
        return undef if &selectfile($File,$_[0]) == 0
    }
    getc $File;
}
sub ReadLine {
    my $File = normalizehandle((@_>1?$_[1]:\*STDIN));
    if (defined $_[0] && $_[0] != 0) {
        return undef if &selectfile($File,$_[0]) == 0;
    }
    scalar(<$File>);
}
!NO!SUBS!

    }
    elsif ( &blockoptions() & 8 )    # Use Win32
    {
        print OUT <<'!NO!SUBS!';
#Win32
sub ReadKey {
    my $File = normalizehandle((@_>1?$_[1]:\*STDIN));
    if ($_[0] || $CurrentMode >= 3) {
        Win32PeekChar($File, $_[0]);
    } else {
 getc $File;
    }
    #if ($_[0]!=0) {return undef if !Win32PeekChar($File, $_[0])};
     #getc $File;
}
sub ReadLine {
    my $File = normalizehandle((@_>1?$_[1]:\*STDIN));
    #if ($_[0]!=0) {return undef if !Win32PeekChar($File, $_[0])};
    #scalar(<$File>);
    if ($_[0]) {
```

```
      croak("Non-blocking ReadLine is not supported on this architecture")
   }
   scalar(<$File>);
}
!NO!SUBS!

   }
   else
   {
      print OUT <<'!NO!SUBS!';
sub ReadKey {
   my $File = normalizehandle((@_>1?$_[1]:\*STDIN));
   if ($_[0]) {
      croak("Non-blocking ReadKey is not supported on this architecture")
   }
   getc $File;
}
sub ReadLine {
   my $File = normalizehandle((@_>1?$_[1]:\*STDIN));
   if ($_[0]) {
     croak("Non-blocking ReadLine is not supported on this architecture")
   }
   scalar(<$File>);
}
!NO!SUBS!

   }
}

print OUT <<'EOF';
1;
# ex: set ro:
EOF

close OUT;
if (-s $file < 1000) {
   warn "WARNING: $file probably too small";
} else {
   print "Done\n";
}
```

Found in path(s):
* /opt/cola/permits/1402400313_1661783000.2195435/0/libterm-readkey-perl-2-38-orig-1-tar-gz/TermReadKey-2.38/ReadKey.pm.PL
No license file was found, but licenses were detected in source scan.

/*

```
  ppport.h -- Perl/Pollution/Portability Version 3.21

  Automatically created by Devel::PPPort running under perl 5.014004.

  Do NOT edit this file directly! -- Edit PPPort_pm.PL and the
  includes in parts/inc/ instead.

  Use 'perldoc ppport.h' to view the documentation below.

----------------------------------------------------------------------

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.21

=head1 SYNOPSIS

 perl ppport.h [options] [source files]

 Searches current directory for files if no [source files] are given

 --help                      show short help

 --version                   show version

 --patch=file                write one patch file with changes
 --copy=suffix               write changed copies with suffix
 --diff=program              use diff program and options

 --compat-version=version
   provide compatibility with Perl version
 --cplusplus                 accept C++ comments

 --quiet                     don't output anything except fatal errors
 --nodiag                    don't show diagnostics
 --nohints                   don't show hints
 --nochanges                 don't suggest changes
 --nofilter                  don't filter input files

 --strip                     strip all script and doc functionality from
                             ppport.h

 --list-provided             list provided API
```

```
 --list-unsupported          list unsupported API
 --api-info=name             show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl
installations back to 5.003, and has been tested up to 5.11.5.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given,
 a single patch file will be created if
any changes are suggested. This requires a working diff program
to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with
the given suffix that contains the suggested changes. This does
not require any external programs. Note that this does not
automagially add a dot between the original filename and the
suffix. If you want the dot, you have to include it in the option
argument.

If neither C<--patch> or C<--copy> are given, the default is to
simply print the diffs for each file. This requires either
C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default
is to use C<Text::Diff>, when installed, and output unified
context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given
Perl version. The default is to check for compatibility with Perl
```

version 5.003.
You can use this option to reduce the output
of F<ppport.h> if you intend to be backward compatible only
down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and
replace them with C style comments for portability reasons.
Using this option instructs F<ppport.h> to leave C++
comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability
alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability
notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints
unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking
like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>.
This
reduces the size of F<ppport.h> dramatically and may be useful
if you want to include F<ppport.h> in smaller modules without
increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows
you to undo the stripping, but only if an appropriate C<Devel::PPPort>
module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by
F<ppport.h>. Also lists if it must be explicitly requested,
if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by
F<ppport.h> and below which version of Perl they probably
won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>.
If I<name> is surrounded by slashes, it is interpreted as a regular
expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible
across
 differing versions of Perl itself, certain steps need to be taken.

=over 4

=item *

Including this header is the first major one. This alone will give you
access to a large part of the Perl API that hasn't been available in
earlier Perl releases. Use

   perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using
global Perl variables without the C<PL_> prefix is deprecated. Also,
some API functions used to have a C<perl_> prefix. Using this form is
also deprecated. You can safely use the supported API, as F<ppport.h>
will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in
earlier versions of Perl, and that can't be provided using a macro, you

have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

```
#define NEED_function
#define NEED_variable
```

For a global function or variable (used in multiple source files), use:

```
#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL
```

Note that you mustn't have more than one global request for the same function or variable in your project.

Function / Variable	Static Request	Global Request
PL_parser	NEED_PL_parser	NEED_PL_parser_GLOBAL
PL_signals	NEED_PL_signals	NEED_PL_signals_GLOBAL
eval_pv()	NEED_eval_pv	NEED_eval_pv_GLOBAL
grok_bin()	NEED_grok_bin	NEED_grok_bin_GLOBAL
grok_hex()	NEED_grok_hex	NEED_grok_hex_GLOBAL
grok_number()	NEED_grok_number	NEED_grok_number_GLOBAL
grok_numeric_radix()	NEED_grok_numeric_radix	NEED_grok_numeric_radix_GLOBAL
grok_oct()	NEED_grok_oct	NEED_grok_oct_GLOBAL
load_module()	NEED_load_module	NEED_load_module_GLOBAL
my_snprintf()	NEED_my_snprintf	NEED_my_snprintf_GLOBAL
my_sprintf()	NEED_my_sprintf	NEED_my_sprintf_GLOBAL
my_strlcat()	NEED_my_strlcat	NEED_my_strlcat_GLOBAL
my_strlcpy()	NEED_my_strlcpy	NEED_my_strlcpy_GLOBAL
newCONSTSUB()	NEED_newCONSTSUB	NEED_newCONSTSUB_GLOBAL
newRV_noinc()	NEED_newRV_noinc	NEED_newRV_noinc_GLOBAL
newSV_type()	NEED_newSV_type	NEED_newSV_type_GLOBAL
newSVpvn_flags()	NEED_newSVpvn_flags	NEED_newSVpvn_flags_GLOBAL
newSVpvn_share()	NEED_newSVpvn_share	NEED_newSVpvn_share_GLOBAL
pv_display()	NEED_pv_display	NEED_pv_display_GLOBAL
pv_escape()	NEED_pv_escape	NEED_pv_escape_GLOBAL

```
  pv_pretty()             NEED_pv_pretty             NEED_pv_pretty_GLOBAL
  sv_2pv_flags()          NEED_sv_2pv_flags          NEED_sv_2pv_flags_GLOBAL
  sv_2pvbyte()            NEED_sv_2pvbyte            NEED_sv_2pvbyte_GLOBAL
  sv_catpvf_mg()          NEED_sv_catpvf_mg          NEED_sv_catpvf_mg_GLOBAL
  sv_catpvf_mg_nocontext()  NEED_sv_catpvf_mg_nocontext  NEED_sv_catpvf_mg_nocontext_GLOBAL
  sv_pvn_force_flags()    NEED_sv_pvn_force_flags    NEED_sv_pvn_force_flags_GLOBAL
  sv_setpvf_mg()          NEED_sv_setpvf_mg
NEED_sv_setpvf_mg_GLOBAL
  sv_setpvf_mg_nocontext()  NEED_sv_setpvf_mg_nocontext  NEED_sv_setpvf_mg_nocontext_GLOBAL
  vload_module()          NEED_vload_module          NEED_vload_module_GLOBAL
  vnewSVpvf()             NEED_vnewSVpvf             NEED_vnewSVpvf_GLOBAL
  warner()                NEED_warner                NEED_warner_GLOBAL
```

To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<DPPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

```
  #define DPPP_NAMESPACE MyOwnNamespace_
  #include "ppport.h"
```

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, F<ppport.h> can be run as a Perl script to check your source code. Simply say:

```
  perl ppport.h
```

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

```
  perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff
```

If you only want your code to be scanned without any suggestions
for changes, use:

```
perl ppport.h --nochanges
```

You can specify a different C<diff> program or options, using
the C<--diff> option:

```
perl ppport.h --diff='diff -C 10'
```

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

```
perl ppport.h --copy=.new
```

To display portability information for the C<newSVpvn>
 function,
use:

```
perl ppport.h --api-info=newSVpvn
```

Since the argument to C<--api-info> can be a regular expression,
you can use

```
perl ppport.h --api-info=/_nomg$/
```

to display portability information for all C<_nomg> functions or

```
perl ppport.h --api-info=/./
```

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during
the compilation of this module, please check if newer versions
of either this module or C<Devel::PPPort> are available on CPAN
before sending a bug report.

If F<ppport.h> was generated using the latest version of
C<Devel::PPPort> and is causing failure of this module, please
file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4

```
=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.

=item
 5.

Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort>
module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2013, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval '${^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }
```

```
my $VERSION = 3.21;

my %opt = (
 quiet     => 0,
 diag      => 1,
 hints     => 1,
 changes   => 1,
 cplusplus => 0,
 filter    => 1,
 strip     => 0,
 version   => 0,
);

my($ppport) = $0 =~ /([\w.]+)$/;
my $LF = '(?:\r\n|[\r\n])';   # line feed
my $HS = "[ \t]";             # horizontal whitespace

# Never use C comments in this file!
my $ccs  = '/'.'*';
my
 $cce  = '*'.'/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
 require Getopt::Long;
 Getopt::Long::GetOptions(\%opt, qw(
   help quiet diag! filter! hints! changes! cplusplus strip version
   patch=s copy=s diff=s compat-version=s
   list-provided list-unsupported api-info=s
 )) or usage();
};

if ($@ and grep /^-/, @ARGV) {
 usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
 die "Getopt::Long not found. Please don't use any options.\n";
}

if ($opt{version}) {
 print "This is $0 $VERSION.\n";
 exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{'compat-version'}) {
```

```
 my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
 if ($@) {
   die "Invalid version number format: '$opt{'compat-version'}'\n";
 }
 die "Only Perl 5 is supported\n" if $r != 5;
 die "Invalid version number: $opt{'compat-version'}\n" if $v >= 1000 || $s >= 1000;
 $opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
}
else {
 $opt{'compat-version'} = 5;
}

my
 %API = map { /^(\w+)\|([^|]*)\|([^|]*)\|(\w*)$/
             ? ( $1 => {
                  ($2                 ? ( base     => $2 ) : ()),
                  ($3                 ? ( todo     => $3 ) : ()),
                  (index($4, 'v') >= 0 ? ( varargs  => 1  ) : ()),
                  (index($4, 'p') >= 0 ? ( provided => 1  ) : ()),
                  (index($4, 'n') >= 0 ? ( nothxarg => 1  ) : ()),
                 } )
             : die "invalid spec: $_" } qw(
AvFILLp|5.004050||p
AvFILL|||
BhkDISABLE||5.019003|
BhkENABLE||5.019003|
BhkENTRY_set||5.019003|
BhkENTRY|||
BhkFLAGS|||
CALL_BLOCK_HOOKS|||
CLASS|||n
CPERLscope|5.005000||p
CX_CURPAD_SAVE|||
CX_CURPAD_SV|||
CopFILEAV|5.006000||p
CopFILEGV_set|5.006000||p
CopFILEGV|5.006000||p
CopFILESV|5.006000||p
CopFILE_set|5.006000||p
CopFILE|5.006000||p
CopSTASHPV_set|5.006000||p
CopSTASHPV|5.006000||p
CopSTASH_eq|5.006000||p
CopSTASH_set|5.006000||p
CopSTASH|5.006000||p
CopyD|5.009002|5.004050|p
Copy||5.004050|
CvPADLIST||5.008001|
```

CvSTASH|||
CvWEAKOUTSIDE|||
DEFSV_set|5.010001||p
DEFSV|5.004050||p
END_EXTERN_C|5.005000||p
ENTER|||
ERRSV|5.004050||p
EXTEND|||
EXTERN_C|5.005000||p
F0convert|||n
FREETMPS|||
GIMME_V||5.004000|n
GIMME|||n
GROK_NUMERIC_RADIX|5.007002||p
G_ARRAY|||
G_DISCARD|||
G_EVAL|||
G_METHOD|5.006001||p
G_NOARGS|||
G_SCALAR|||
G_VOID||5.004000|
GetVars|||
GvAV|||
GvCV|||
GvHV|||
GvSVn|5.009003||p
GvSV|||
Gv_AMupdate||5.011000|
HEf_SVKEY||5.004000|
HeHASH||5.004000|
HeKEY||5.004000|
HeKLEN||5.004000|
HePV||5.004000|
HeSVKEY_force||5.004000|
HeSVKEY_set||5.004000|
HeSVKEY||5.004000|
HeUTF8||5.010001|
HeVAL||5.004000|
HvENAMELEN||5.015004|
HvENAMEUTF8||5.015004|
HvENAME||5.013007|
HvNAMELEN_get|5.009003||p
HvNAMELEN||5.015004|
HvNAMEUTF8||5.015004|
HvNAME_get|5.009003||p
HvNAME|||
INT2PTR|5.006000||p
IN_LOCALE_COMPILETIME|5.007002||p

IN_LOCALE_RUNTIME|5.007002||p
IN_LOCALE|5.007002||p
IN_PERL_COMPILETIME|5.008001||p
IS_NUMBER_GREATER_THAN_UV_MAX|5.007002||p
IS_NUMBER_INFINITY|5.007002||p
IS_NUMBER_IN_UV|5.007002||p
IS_NUMBER_NAN|5.007003||p
IS_NUMBER_NEG|5.007002||p
IS_NUMBER_NOT_INT|5.007002||p
IVSIZE|5.006000||p
IVTYPE|5.006000||p
IVdf|5.006000||p
LEAVE|||
LINKLIST||5.013006|
LVRET|||
MARK|||
MULTICALL||5.019003|
MY_CXT_CLONE|5.009002||p
MY_CXT_INIT|5.007003||p
MY_CXT|5.007003||p
MoveD|5.009002|5.004050|p
Move||5.004050|
NOOP|5.005000||p
NUM2PTR|5.006000||p
NVTYPE|5.006000||p
NVef|5.006001||p
NVff|5.006001||p
NVgf|5.006001||p
Newxc|5.009003||p
Newxz|5.009003||p
Newx|5.009003||p
Nullav|||
Nullch|||
Nullcv|||
Nullhv|||
Nullsv|||
OP_CLASS||5.013007|
OP_DESC||5.007003|
OP_NAME||5.007003|
ORIGMARK|||
PAD_BASE_SV|||
PAD_CLONE_VARS|||
PAD_COMPNAME_FLAGS|||
PAD_COMPNAME_GEN_set|||
PAD_COMPNAME_GEN|||
PAD_COMPNAME_OURSTASH|||
PAD_COMPNAME_PV|||
PAD_COMPNAME_TYPE|||

PAD_RESTORE_LOCAL|||
PAD_SAVE_LOCAL|||
PAD_SAVE_SETNULLPAD|||
PAD_SETSV|||
PAD_SET_CUR_NOSAVE|||
PAD_SET_CUR|||
PAD_SVl|||
PAD_SV|||
PERLIO_FUNCS_CAST|5.009003||p
PERLIO_FUNCS_DECL|5.009003||p
PERL_ABS|5.008001||p
PERL_BCDVERSION|5.019002||p
PERL_GCC_BRACE_GROUPS_FORBIDDEN|5.008001||p
PERL_HASH|5.004000||p
PERL_INT_MAX|5.004000||p
PERL_INT_MIN|5.004000||p
PERL_LONG_MAX|5.004000||p
PERL_LONG_MIN|5.004000||p
PERL_MAGIC_arylen|5.007002||p
PERL_MAGIC_backref|5.007002||p
PERL_MAGIC_bm|5.007002||p
PERL_MAGIC_collxfrm|5.007002||p
PERL_MAGIC_dbfile|5.007002||p
PERL_MAGIC_dbline|5.007002||p
PERL_MAGIC_defelem|5.007002||p
PERL_MAGIC_envelem|5.007002||p
PERL_MAGIC_env|5.007002||p
PERL_MAGIC_ext|5.007002||p
PERL_MAGIC_fm|5.007002||p
PERL_MAGIC_glob|5.019002||p
PERL_MAGIC_isaelem|5.007002||p
PERL_MAGIC_isa|5.007002||p
PERL_MAGIC_mutex|5.019002||p
PERL_MAGIC_nkeys|5.007002||p
PERL_MAGIC_overload_elem|5.019002||p
PERL_MAGIC_overload_table|5.007002||p
PERL_MAGIC_overload|5.019002||p
PERL_MAGIC_pos|5.007002||p
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yyerror_pvn|||
yyerror_pv|||
yyerror|||
yylex|||
yyparse|||
yyunlex|||
yywarn|||
);

if
 (exists $opt{'list-unsupported'}) {
 my $f;
 for $f (sort { lc $a cmp lc $b } keys %API) {
```

```
  next unless $API{$f}{todo};
  print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
 }
 exit 0;
}

# Scan for possible replacement candidates

my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);

sub find_api
{
 my $code = shift;
 $code =~ s{
  / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
 | "[^"\\]*(?:\\.[^"\\]*)*"
 | '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
 grep { exists $API{$_} } $code =~ /(\w+)/mg;
}

while (<DATA>) {
 if ($hint) {
  my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
  if (m{^\s*\*\s(.*?)\s*$}) {
    for (@{$hint->[1]}) {
      $h->{$_} ||= '';  # suppress warning with older perls
      $h->{$_} .= "$1\n";
    }
  }
  else { undef $hint }
 }

 $hint = [$1, [split /,?\s+/, $2]]
    if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};

 if ($define) {
  if ($define->[1] =~ /\\$/) {
    $define->[1] .= $_;
  }
  else {
    if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
      my @n = find_api($define->[1]);
      push @{$depends{$define->[0]}}, @n if @n
    }
    undef $define;
  }
```

```
 }

 $define = [$1, $2] if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)};

 if ($function) {
   if (/^}/) {
     if (exists $API{$function->[0]}) {
       my @n = find_api($function->[1]);
       push @{$depends{$function->[0]}}, @n if @n
     }
     undef $function;
   }
   else {
     $function->[1] .= $_;
   }
 }

 $function = [$1, ''] if m{^DPPP_\(my_(\w+)\)};

 $replace     = $1 if m{^\s*$rccs\s+Replace:\s+(\d+)\s+$rcce\s*$};
 $replace{$2} = $1 if $replace
 and m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+)};
 $replace{$2} = $1 if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+).*$rccs\s+Replace\s+$rcce};
 $replace{$1} = $2 if m{^\s*$rccs\s+Replace (\w+) with (\w+)\s+$rcce\s*$};

 if (m{^\s*$rccs\s+(\w+(\s*,\s*\w+)*)\s+depends\s+on\s+(\w+(\s*,\s*\w+)*)\s+$rcce\s*$}) {
   my @deps = map { s/\s+//g; $_ } split /,/, $3;
   my $d;
   for $d (map { s/\s+//g; $_ } split /,/, $1) {
     push @{$depends{$d}}, @deps;
   }
 }

 $need{$1} = 1 if m{^#if\s+defined\(NEED_(\w+)(?:_GLOBAL)?\)};
}

for (values %depends) {
 my %s;
 $_ = [sort grep !$s{$_}++, @$_];
}

if (exists $opt{'api-info'}) {
 my $f;
 my $count = 0;
 my $match = $opt{'api-info'} =~ m!^/(.*)/$! ? $1 : "^\Q$opt{'api-info'}\E$";
 for $f (sort { lc $a cmp lc $b } keys %API) {
   next unless $f =~ /$match/;
   print "\n=== $f ===\n\n";
```

```
  my $info = 0;
  if ($API{$f}{base} || $API{$f}{todo}) {
    my $base = format_version($API{$f}{base} || $API{$f}{todo});

   print "Supported at least starting from perl-$base.\n";
    $info++;
  }
  if ($API{$f}{provided}) {
    my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
    print "Support by $ppport provided back to perl-$todo.\n";
    print "Support needs to be explicitly requested by NEED_$f.\n" if exists $need{$f};
    print "Depends on: ", join(', ', @{$depends{$f}}), ".\n" if exists $depends{$f};
    print "\n$hints{$f}" if exists $hints{$f};
    print "\nWARNING:\n$warnings{$f}" if exists $warnings{$f};
    $info++;
  }
  print "No portability information available.\n" unless $info;
  $count++;
 }
 $count or print "Found no API matching '$opt{'api-info'}'.";
 print "\n";
 exit 0;
}

if (exists $opt{'list-provided'}) {
 my $f;
 for $f (sort { lc $a cmp lc $b } keys %API) {
   next unless $API{$f}{provided};
   my @flags;
   push @flags, 'explicit' if exists $need{$f};
   push @flags, 'depend'   if exists $depends{$f};
   push @flags, 'hint'
     if exists $hints{$f};
   push @flags, 'warning'  if exists $warnings{$f};
   my $flags = @flags ? '  ['.join(', ', @flags).']' : '';
   print "$f$flags\n";
 }
 exit 0;
}

my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;

if (@ARGV) {
 my %seen;
 for (@ARGV) {
   if (-e) {
```

```
    if (-f) {
      push @files, $_ unless $seen{$_}++;
    }
    else { warn "'$_' is not a file.\n" }
  }
  else {
    my @new = grep { -f } glob $_
        or warn "'$_' does not exist.\n";
    push @files, grep { !$seen{$_}++ } @new;
  }
 }
}
else {
 eval {
  require File::Find;
  File::Find::find(sub {
    $File::Find::name =~ /($srcext)$/i
        and push @files, $File::Find::name;
  }, '.');
 };
 if ($@) {
  @files = map { glob "*$_" } @srcext;
 }
}

if (!@ARGV || $opt{filter}) {
 my(@in, @out);
 my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
 for (@files) {
   my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
  push @{ $out ? \@out : \@in }, $_;
 }
 if (@ARGV && @out) {
  warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
 }
 @files = @in;
}

die "No input files given!\n" unless @files;

my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;

for $filename (@files) {
 unless (open IN, "<$filename") {
  warn "Unable to read from $filename: $!\n";
```

```
  next;
}

info("Scanning $filename ...");

my $c = do { local $/; <IN> };
close IN;

my %file = (orig => $c, changes => 0);

# Temporarily remove C/XS comments and strings from the code
my @ccom;

$c =~ s{
  ( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
  | ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
  | "[^"\\]*(?:\\.[^"\\]*)*"
  | '[^'\\]*(?:\\.[^'\\]*)*'
  | / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*
) )
}{ defined $2 and push @ccom, $2;
   defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;

$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;

my $func;

for $func (keys %API) {
  my $match = $func;
  $match .= "|$revreplace{$func}" if exists $revreplace{$func};
  if ($c =~ /\b(?:Perl_)?($match)\b/) {
    $file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
    $file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
    if (exists $API{$func}{provided}) {
      $file{uses_provided}{$func}++;
      if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
        $file{uses}{$func}++;
        my @deps = rec_depend($func);
        if (@deps) {
          $file{uses_deps}{$func} = \@deps;
          for (@deps) {
            $file{uses}{$_} = 0 unless exists $file{uses}{$_};
          }
        }
        for ($func, @deps) {
```

```
      $file{needs}{$_} = 'static' if exists $need{$_};
        }
      }
    }
    if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
      if ($c =~ /\b$func\b/) {
        $file{uses_todo}{$func}++;
      }
    }
  }
}

while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
  if (exists $need{$2}) {
    $file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
  }
  else { warning("Possibly wrong #define $1 in $filename") }
}

for (qw(uses needs uses_todo needed_global needed_static)) {
  for $func (keys %{$file{$_}}) {
    push @{$global{$_}{$func}}, $filename;
  }
}

$files{$filename} = \%file;
}

# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
 if (@{$global{needs}{$need}} > 1) {
  my @targets = @{$global{needs}{$need}};
  my @t = grep $files{$_}{needed_global}{$need}, @targets;
  @targets = @t if @t;
  @t = grep /\.xs$/i, @targets;
  @targets = @t if @t;
  my
 $target = shift @targets;
  $files{$target}{needs}{$need} = 'global';
  for (@{$global{needs}{$need}}) {
    $files{$_}{needs}{$need} = 'extern' if $_ ne $target;
  }
 }
}

for $filename (@files) {
```

```
exists $files{$filename} or next;

info("=== Analyzing $filename ===");

my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $warnings = 0;

for $func (sort keys %{$file{uses_Perl}}) {
  if ($API{$func}{varargs}) {
    unless ($API{$func}{nothxarg}) {
      my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)]*\))}
                        { $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);
      if ($changes) {
        warning("Doesn't pass interpreter argument aTHX to Perl_$func");
        $file{changes} += $changes;
      }
    }
  }
  else {
    warning("Uses Perl_$func instead of $func");
    $file{changes} += ($c =~ s{\bPerl_$func(\s*)\((\s*aTHX_?)?\s*}
                          {$func$1(}g);
  }
}

 for $func (sort keys %{$file{uses_replace}}) {
  warning("Uses $func instead of $replace{$func}");
  $file{changes} += ($c =~ s/\b$func\b/$replace{$func}/g);
}

for $func (sort keys %{$file{uses_provided}}) {
  if ($file{uses}{$func}) {
    if (exists $file{uses_deps}{$func}) {
      diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));
    }
    else {
      diag("Uses $func");
    }
  }
  $warnings += hint($func);
}

unless ($opt{quiet}) {
  for $func (sort keys %{$file{uses_todo}}) {
    print "*** WARNING: Uses $func, which may not be portable below perl ",
          format_version($API{$func}{todo}), ", even with '$ppport'\n";
```

```
    $warnings++;
  }
}

for $func (sort keys %{$file{needed_static}}) {
  my $message = '';
  if (not exists $file{uses}{$func}) {
    $message = "No need to define NEED_$func if $func is never used";
  }
  elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
     $message = "No need to define NEED_$func when already needed globally";
  }
  if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
  }
}

for $func (sort keys %{$file{needed_global}}) {
  my $message = '';
  if (not exists $global{uses}{$func}) {
    $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
  }
  elsif (exists $file{needs}{$func}) {
    if ($file{needs}{$func} eq 'extern') {
      $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
    }
    elsif ($file{needs}{$func} eq 'static') {
      $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
    }
  }
  if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
  }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
  my $pp = '';

  for $func
(sort keys %{$file{needs}}) {
    my $type = $file{needs}{$func};
    next if $type eq 'extern';
    my $suffix = $type eq 'global' ? '_GLOBAL' : '';
    unless (exists $file{"needed_$type"}{$func}) {
```

```
      if ($type eq 'global') {
        diag("Files [@{$global{needs}{$func}}] need $func, adding global request");
      }
      else {
        diag("File needs $func, adding static request");
      }
      $pp .= "#define NEED_$func$suffix\n";
    }
  }

  if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
    $pp = '';
    $file{changes}++;
  }

  unless ($file{has_inc_ppport}) {
    diag("Needs to include '$ppport'");
    $pp .= qq(#include "$ppport"\n)
  }

  if ($pp) {
    $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*?)^/$1$pp/ms)
                  || ($c =~ s/^(?=$HS*#$HS*include.*\Q$ppport\E)/$pp/m)
                  || ($c =~ s/^($HS*#$HS*include.*XSUB.*\s*?)^/$1$pp/m)
                  || ($c =~ s/^/$pp/);
  }
}
else {
  if ($file{has_inc_ppport}) {
    diag("No need to include '$ppport'");
    $file{changes} += ($c =~ s/^$HS*?#$HS*include.*\Q$ppport\E.*?$LF//m);
  }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
  if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
    $cppc++;
    $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
  }
  else {
    $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
  }
}
```

```
if ($cppc) {
  my $s = $cppc != 1 ? 's' : '';
  warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : '';
my $warn = $warnings ? " ($warnings warning$s)" : '';
info("Analysis completed$warn");

if ($file{changes}) {
  if (exists $opt{copy}) {
    my $newfile = "$filename$opt{copy}";
    if (-e $newfile) {
      error("'$newfile' already exists, refusing to write copy of '$filename'");
    }
    else {
      local
*F;
      if (open F, ">$newfile") {
        info("Writing copy of '$filename' with changes to '$newfile'");
        print F $c;
        close F;
      }
      else {
        error("Cannot open '$newfile' for writing: $!");
      }
    }
  }
  elsif (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
      unless ($patch_opened) {
        if (open PATCH, ">$opt{patch}") {
          $patch_opened = 1;
        }
        else {
          error("Cannot open '$opt{patch}' for writing: $!");
          delete $opt{patch};
          $opt{changes} = 1;
          goto fallback;
        }
      }
      mydiff(\*PATCH, $filename, $c);
    }
    else {
fallback:
      info("Suggested changes:");
      mydiff(\*STDOUT, $filename, $c);
    }
```

```
  }
  else {
    my $s = $file{changes} == 1 ? '' : 's';
    info("$file{changes} potentially required change$s detected");
  }
 }
 else {
  info("Looks good");
 }
}

close
 PATCH if $patch_opened;

exit 0;


sub try_use { eval "use @_;"; return $@ eq '' }

sub mydiff
{
 local *F = shift;
 my($file, $str) = @_;
 my $diff;

 if (exists $opt{diff}) {
  $diff = run_diff($opt{diff}, $file, $str);
 }

 if (!defined $diff and try_use('Text::Diff')) {
  $diff = Text::Diff::diff($file, \$str, { STYLE => 'Unified' });
  $diff = <<HEADER . $diff;
--- $file
+++ $file.patched
HEADER
 }

 if (!defined $diff) {
  $diff = run_diff('diff -u', $file, $str);
 }

 if (!defined $diff) {
  $diff = run_diff('diff', $file, $str);
 }

 if (!defined $diff) {
  error("Cannot generate a diff. Please install Text::Diff or use --copy.");
  return;
```

```
 }

 print F $diff;
}

sub run_diff
{
 my($prog, $file, $str) = @_;
 my $tmp = 'dpppptemp';
 my $suf = 'aaa';
 my $diff = '';
 local *F;

 while (-e "$tmp.$suf") { $suf++ }
 $tmp = "$tmp.$suf";

 if (open F, ">$tmp") {
   print F $str;
   close F;

   if (open F, "$prog $file $tmp |") {
     while (<F>)
 {
       s/\Q$tmp\E/$file.patched/;
       $diff .= $_;
     }
     close F;
     unlink $tmp;
     return $diff;
   }

   unlink $tmp;
 }
 else {
   error("Cannot open '$tmp' for writing: $!");
 }

 return undef;
}

sub rec_depend
{
 my($func, $seen) = @_;
 return () unless exists $depends{$func};
 $seen = {%{$seen||{}}};
 return () if $seen->{$func}++;
 my %s;
 grep !$s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
```

```
}

sub parse_version
{
 my $ver = shift;

 if ($ver =~ /^(\d+)\.(\d+)\.(\d+)$/) {
   return ($1, $2, $3);
 }
 elsif ($ver !~ /^\d+\.[\d_]+$/) {
   die "cannot parse version '$ver'\n";
 }

 $ver =~ s/_//g;
 $ver =~ s/$/000000/;

 my($r,$v,$s) = $ver =~ /(\d+)\.(\d{3})(\d{3})/;

 $v = int $v;
 $s = int $s;

 if ($r < 5 || ($r == 5 && $v < 6)) {
   if ($s % 10) {
     die "cannot parse version '$ver'\n";
   }
 }

 return ($r, $v, $s);
}

sub format_version
{
 my $ver = shift;

 $ver =~ s/$/000000/;
 my($r,$v,$s) =
 $ver =~ /(\d+)\.(\d{3})(\d{3})/;

 $v = int $v;
 $s = int $s;

 if ($r < 5 || ($r == 5 && $v < 6)) {
   if ($s % 10) {
     die "invalid version '$ver'\n";
   }
   $s /= 10;

   $ver = sprintf "%d.%03d", $r, $v;
```

```
  $s > 0 and $ver .= sprintf "_%02d", $s;

  return $ver;
 }

 return sprintf "%d.%d.%d", $r, $v, $s;
}

sub info
{
 $opt{quiet} and return;
 print @_, "\n";
}

sub diag
{
 $opt{quiet} and return;
 $opt{diag} and print @_, "\n";
}

sub warning
{
 $opt{quiet} and return;
 print "*** ", @_, "\n";
}

sub error
{
 print "*** ERROR: ", @_, "\n";
}

my %given_hints;
my %given_warnings;
sub hint
{
 $opt{quiet} and return;
 my $func = shift;
 my $rv = 0;
 if (exists $warnings{$func} && !$given_warnings{$func}++) {
  my $warn = $warnings{$func};
  $warn =~ s!^!*** !mg;
  print "*** WARNING: $func\n", $warn;
  $rv++;
 }
 if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
  my $hint = $hints{$func};
  $hint =~ s/^/   /mg;
  print
```

```
 "   --- hint for $func ---\n", $hint;
 }
 $rv;
}

sub usage
{
 my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
 my %M = ( 'I' => '*' );
 $usage =~ s/^\s*perl\s+\S+/$^X $0/;
 $usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;

 print <<ENDUSAGE;

Usage: $usage

See perldoc $0 for details.

ENDUSAGE

 exit 2;
}

sub strip
{
 my $self = do { local(@ARGV,$/)=($0); <> };
 my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)^=\w+/ms;
 $copy =~ s/^(?=\S+)/    /gms;
 $self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
 $self =~ s/^SKIP.*(?=^__DATA__)/SKIP
if (\@ARGV && \$ARGV[0] eq '--unstrip') {
 eval { require Devel::PPPort };
 \$@ and die "Cannot require Devel::PPPort, please install.\\n";
 if (eval \$Devel::PPPort::VERSION < $VERSION) {
   die "$0 was originally generated with Devel::PPPort $VERSION.\\n"
     . "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\\n"
     . "Please install a newer version, or --unstrip will not work.\\n";
  }
 Devel::PPPort::WriteFile(\$0);
 exit 0;
}
print <<END;

Sorry, but this is a stripped version of \$0.

To be able to use its original script and doc functionality,
please try to regenerate this file using:
```

```
 \$^X \$0 --unstrip

END
/ms;
 my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
 $c =~ s{
   / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
 | ( "[^"\\]*(?:\\.[^"\\]*)*"
   | '[^'\\]*(?:\\.[^'\\]*)*' )
 | ($HS+) }{ defined $2 ? ' ' : ($1 || '') }gsex;
 $c =~ s!\s+$!!mg;
 $c =~ s!^$LF!!mg;
 $c =~ s!^\s*#\s*!#!mg;
 $c =~ s!^\s+!!mg;

 open OUT, ">$0" or die "cannot strip $0: $!\n";
 print OUT "$pl$c\n";

 exit 0;
}

__DATA__
*/
```

Found in path(s):
* /opt/cola/permits/1402400313_1661783000.2195435/0/libterm-readkey-perl-2-38-orig-1-tar-gz/TermReadKey-2.38/ppport.h
No license file was found, but licenses were detected in source scan.

```
---
abstract: 'Change terminal modes, and perform non-blocking reads.'
author:
 - 'Kenneth Albanowski'
 - 'Jonathan Stowe'
build_requires:
 ExtUtils::MakeMaker: '6.58'
configure_requires:
 ExtUtils::MakeMaker: '6.58'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.34, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: '1.4'
name: TermReadKey
no_index:
 file:
   - Configure.pm
```

```
 package:
   - Configure
provides:
 Term::ReadKey:
   file: ReadKey.pm.PL
   version: '2.38'
resources:
 repository: https://github.com/jonathanstowe/TermReadKey.git
version: '2.38'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'
```

Found in path(s):
* /opt/cola/permits/1402400313_1661783000.2195435/0/libterm-readkey-perl-2-38-orig-1-tar-gz/TermReadKey-2.38/META.yml

1.778 pwgen 2.08-2build1

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```
Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: pwgen
Upstream-Contact: tytso@mit.edu
Source: https://github.com/tytso/pwgen

Files: *
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<signature of Ty Coon>, 1 April 1989
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1.783 popt 1.18-3build1

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1.788 mitchellh-mapstructure 1.5.0

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1.789 defusedxml 0.7.1

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1.790 pyparsing 3.0.7

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1.791 github.com/chai2010/gettext-go 1.0.2

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1.793 certificate-transparency-go 1.1.3

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1.798 jetty-util 9.4.48.v20220622

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* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-el-api

Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.801 vixie-cron 3.0pl1-137ubuntu3

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* /opt/cola/permits/1411214203_1665121727.5478497/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.h
*
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* /opt/cola/permits/1411214203_1665121727.5478497/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.1
* /opt/cola/permits/1411214203_1665121727.5478497/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.5
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*
* @(#)bitstring.h 5.2
 (Berkeley) 4/4/90
*/

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* /opt/cola/permits/1411214203_1665121727.5478497/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/do_command.c
*
 /opt/cola/permits/1411214203_1665121727.5478497/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/misc.c
* /opt/cola/permits/1411214203_1665121727.5478497/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/entry.c
* /opt/cola/permits/1411214203_1665121727.5478497/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/database.c
* /opt/cola/permits/1411214203_1665121727.5478497/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.c
* /opt/cola/permits/1411214203_1665121727.5478497/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/env.c

* /opt/cola/permits/1411214203_1665121727.5478497/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.c
* /opt/cola/permits/1411214203_1665121727.5478497/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/job.c
* /opt/cola/permits/1411214203_1665121727.5478497/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/config.h
* /opt/cola/permits/1411214203_1665121727.5478497/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/user.c
*
 /opt/cola/permits/1411214203_1665121727.5478497/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.h
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Vixie Cron V3.0
December 27, 1993
[V2.2 was some time in 1992]
[V2.1 was May 29, 1991]
[V2.0 was July 5, 1990]
[V2.0-beta
 was December 9, 1988]
[V1.0 was May 6, 1987]
Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It
is functionally based on the SysV cron, which means that each user can have
their own crontab file (all crontab files are stored in a read-protected
directory, usually /var/cron/tabs). No direct support is provided for
'at'; you can continue to run 'atrun' from the crontab as you have been
doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files
"allow" and "deny" in /var/cron can be used to control access to the
"crontab" command (which installs crontabs). It hasn't been tested on
SysV, although some effort has gone into making the port an easy one.

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please, don't flame me for wanting my work to see a wider distribution.

To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll
have to go edit a couple of files... So, here's the checklist:

```
 Read all the FEATURES, INSTALL, and CONVERSION files
 Edit config.h
 Edit Makefile
  (both of these files have instructions inside; note that
   some things in config.h are definable in Makefile and are
   therefore surrounded by #ifndef...#endif)
 'make'
 'su' and 'make install'
  (you may have to install the man pages by hand)
 kill your existing cron process
  (actually you can run your existing cron if you want, but why?)
 build new crontabs using /usr/lib/{crontab,crontab.local}
  (either put them all in "root"'s crontab, or divide it up
   and rip out all the 'su' commands, collapse the lengthy
   lists into
 ranges with steps -- basically, this step is
   as much work as you want to make it)
 start up the new cron
  (must be done as root)
 watch it. test it with 'crontab -r' and watch the daemon track your
  changes.
 if you like it, change your /etc/{rc,rc.local} to use it instead of
  the old one.
```

$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp $

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*/
```

$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp $

Read the comments at the top of the Makefile, then edit the area marked
'configurable
 stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the
top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since
both the daemon and the `crontab' program will do this the first time they
run if they don't exist. You do need to have a /var, though -- just "mkdir
/var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var"
if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you
change the Makefile. These will have to be created by hand, but if you are
a long-time Usenet user you probably have them already. /usr/local/man is
where I keep my man pages, but I have the source for `man' and you probably
do not. Therefore you may have to put the man pages into /usr/man/manl,
which will be hard since there will be name collisions. (Note that the man
command was originally written by
 Bill Joy before he left Berkeley, and it
contains no AT&T code, so it is in UUNET's archive of freely-distributable
BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL
 to be /usr/bin/sendmail even though sendmail is installed in /usr/lib.
 you should check this out.

say:
 make all

su and say:
 make install

Note that if I can get you to "su and say" something just by asking, you have
a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file
for help on this.

Use the `crontab' command to install all the little pieces you just created.
Some examples (see below before trying any of these!)

```
crontab -u uucp -r /usr/lib/uucp/crontab.src
crontab -u news -r /usr/lib/news/crontab.src
crontab -u root -r /usr/adm/crontab.src
```

Notes on above examples: (1) the .src files are copied at the time the
command is issued; changing the source files later will have
no effect until
they are reinstalled with another `crontab -r' command. (2) The crontab
command will affect the crontab of the person using the command unless `-u
USER' is given; `-u' only works for root. When using most `su' commands
under most BSD's, `crontab' will still think of you as yourself even though
you may think of yourself as root -- so use `-u' liberally. (3) the `-r'
option stands for `replace'; check the man page for crontab(1) for other
possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up
/etc/cron. Comment it out and add a line to start the new cron daemon
-- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron
(or whatever); no '&' is needed since the daemon forks itself and the
process you executed returns immediately.

ATT notes: for those people unfortunate enough to
be stuck on a AT&T UNIX,
you will need the public-domain "libndir", found in the B News source and in
any comp.sources.unix archive. You will also need to hack the code some.

Found in path(s):
* /opt/cola/permits/1411214203_1665121727.5478497/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/INSTALL

1.802 cracklib 2.9.6-3.4build4

1.802.1 Available under license :

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Version 2.1, February 1999

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the free library to free
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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
This package was debianized by Jean Pierre LeJacq
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version
2.7.19-1. The current maintainer is Jan Dittberner
<jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

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Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:

CrackLib was originally licensed with a variant of the Artistic
license. In the interests of wider acceptance and more modern
licensing, it was switched with the original author's blessing to GPL
v2.

This approval was carried out in email discussions in 2005, and has
been reconfirmed as of 2007-10-01 with the following email from Alec
Muffett. Cracklib's license was changed from the GPL to the LGPL after

consensus of all previous developers in October 2008, effective with
release 2.8.15 released on 2009-11-19. See the email discussion below
for both license changes.

EFFECTIVE
 OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively
involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't
actually a license change, just a
clarification of the licensing that was already in place.=20

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
>
Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> directly
> > and see if he wants to relicense his code as LGPL... but at this
> point,
> > it was enough to just get it consistent and documented as to what
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> > released under. This wasn't actually a license change, just a
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> not
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>=20
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the
> place of a
> library to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small

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From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
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This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address
that was used at the time. For any future emails regarding this, please
use
nneul@neulinger.org.

From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
 by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
 by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
 by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
 for <nneul@neulinger.org>; Mon, 1 Oct
 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
 by rutherford.zen.co.uk with esmtp (Exim 4.50)
 id 1IcOcX-0004Qt-6L
 for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status:
 RO
Content-Length: 585
Lines: 21

>
> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>

> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
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-- Nathan
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Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
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Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
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 for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from
 [82.68.43.14] (helo=[192.168.1.3])
 by rutherford.zen.co.uk with esmtp (Exim 4.50)
 id 1IcOcX-0004Qt-6L
 for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
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585
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The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.803 cron 3.0pl1-137ubuntu3

1.803.1 Available under license :

No license file was found, but licenses were detected in source scan.

#/* Copyright 1988,1990,1993 by Paul Vixie
* All rights reserved
*
* Distribute freely, except: don't remove my name from the source or
* documentation (don't take credit for my work), mark your changes (don't
* get me blamed for your possible bugs), don't alter or remove this
* notice. May be sold if buildable source is provided to buyer. No
* warrantee of any kind, express or implied, is included with this
* software; use at your own risk, responsibility for damages (if any) to
* anyone resulting from the use of this software rests entirely with the
* user.
*
* Send bug reports, bug fixes, enhancements, requests, flames, etc., and
* I'll try to keep a version up to date. I can be reached as follows:
* Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul

```
# */

Vixie Cron V3.0
December 27, 1993
[V2.2 was some time in 1992]
[V2.1 was May 29, 1991]
[V2.0 was July 5, 1990]
[V2.0-beta
 was December 9, 1988]
[V1.0 was May 6, 1987]
Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems.  It
is functionally based on the SysV cron, which means that each user can have
their own crontab file (all crontab files are stored in a read-protected
directory, usually /var/cron/tabs).  No direct support is provided for
'at'; you can continue to run 'atrun' from the crontab as you have been
doing.  If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files
"allow" and "deny" in /var/cron can be used to control access to the
"crontab" command (which installs crontabs).  It hasn't been tested on
SysV, although some effort has gone into making the port an easy one.

This is more or less the copyright that USENET contributed software usually
has.  Since ATT couldn't use this version if they had to freely distribute
source, and since I'd love to see them use it, I'll offer some
 rediculously
low license fee just to have them take it.  In the unlikely event that they
do this, I will continue to support and distribute the pseudo-PD version, so
please, don't flame me for wanting my work to see a wider distribution.

To use this: Sorry, folks, there is no cutesy 'Configure' script.  You'll
have to go edit a couple of files... So, here's the checklist:

 Read all the FEATURES, INSTALL, and CONVERSION files
 Edit config.h
 Edit Makefile
  (both of these files have instructions inside; note that
   some things in config.h are definable in Makefile and are
   therefore surrounded by #ifndef...#endif)
 'make'
 'su' and 'make install'
  (you may have to install the man pages by hand)
 kill your existing cron process
  (actually you can run your existing cron if you want, but why?)
 build new crontabs using /usr/lib/{crontab,crontab.local}
  (either put them all in "root"'s crontab, or divide it up
```

and rip out all the 'su' commands, collapse the lengthy
lists into
ranges with steps -- basically, this step is
as much work as you want to make it)
start up the new cron
(must be done as root)
watch it. test it with 'crontab -r' and watch the daemon track your
changes.
if you like it, change your /etc/{rc,rc.local} to use it instead of
the old one.

$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp $

Found in path(s):
* /opt/cola/permits/1411214195_1662634382.433482/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/README
No license file was found, but licenses were detected in source scan.

.\" All rights reserved.
.\" Redistribution and use in source and binary forms are permitted
.\" provided that the above copyright notice and this paragraph are
.\" duplicated in all such forms and that any documentation,
.\" advertising materials, and other materials related to such
.\" distribution and use acknowledge that the software was developed
.\" by the University of California, Berkeley. The name of the
.\" University may not be used to endorse or promote products derived
.\" from this software without specific prior written permission.
.\" WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Found in path(s):
* /opt/cola/permits/1411214195_1662634382.433482/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/bitstring.3
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.\" * All rights reserved
.\" * Distribute freely, except: don't remove my name from the source or

Found in path(s):
* /opt/cola/permits/1411214195_1662634382.433482/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/crontab.5
* /opt/cola/permits/1411214195_1662634382.433482/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/crontab.1
* /opt/cola/permits/1411214195_1662634382.433482/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.8
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* @(#)bitstring.h 5.2
 (Berkeley) 4/4/90
*/

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* /opt/cola/permits/1411214195_1662634382.433482/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/user.c
* /opt/cola/permits/1411214195_1662634382.433482/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/job.c
*
 /opt/cola/permits/1411214195_1662634382.433482/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/entry.c
* /opt/cola/permits/1411214195_1662634382.433482/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/do_command.c
* /opt/cola/permits/1411214195_1662634382.433482/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/env.c
* /opt/cola/permits/1411214195_1662634382.433482/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/misc.c
* /opt/cola/permits/1411214195_1662634382.433482/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.h
* /opt/cola/permits/1411214195_1662634382.433482/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/compat.c
* /opt/cola/permits/1411214195_1662634382.433482/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.c
* /opt/cola/permits/1411214195_1662634382.433482/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/crontab.c
* /opt/cola/permits/1411214195_1662634382.433482/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/database.c
*
 /opt/cola/permits/1411214195_1662634382.433482/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/config.h
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* /opt/cola/permits/1411214195_1662634382.433482/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/pathnames.h
*
 /opt/cola/permits/1411214195_1662634382.433482/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/compat.h
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```

$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp $

Read the comments at the top of the Makefile, then edit the area marked
'configurable
 stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the
top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since
both the daemon and the `crontab' program will do this the first time they
run if they don't exist. You do need to have a /var, though -- just "mkdir
/var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var"
if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you
change the Makefile. These will have to be created by hand, but if you are

a long-time Usenet user you probably have them already. /usr/local/man is where I keep my man pages, but I have the source for `man' and you probably do not. Therefore you may have to put the man pages into /usr/man/manl, which will be hard since there will be name collisions. (Note that the man command was originally written by
Bill Joy before he left Berkeley, and it
contains no AT&T code, so it is in UUNET's archive of freely-distributable BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL
to be /usr/bin/sendmail even though sendmail is installed in /usr/lib.
you should check this out.

say:
make all

su and say:
make install

Note that if I can get you to "su and say" something just by asking, you have a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file for help on this.

Use the `crontab' command to install all the little pieces you just created. Some examples (see below before trying any of these!)

```
crontab -u uucp -r /usr/lib/uucp/crontab.src
crontab -u news -r /usr/lib/news/crontab.src
crontab -u root -r /usr/adm/crontab.src
```

Notes on above examples: (1) the .src files are copied at the time the command is issued; changing the source files later will have
no effect until
they are reinstalled with another `crontab -r' command. (2) The crontab command will affect the crontab of the person using the command unless `-u USER' is given; `-u' only works for root. When using most `su' commands under most BSD's, `crontab' will still think of you as yourself even though you may think of yourself as root -- so use `-u' liberally. (3) the `-r' option stands for `replace'; check the man page for crontab(1) for other possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up /etc/cron. Comment it out and add a line to start the new cron daemon -- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron
(or whatever); no '&' is needed since the daemon forks itself and the
process you executed returns immediately.

ATT notes: for those people unfortunate enough to
be stuck on a AT&T UNIX,
you will need the public-domain "libndir", found in the B News source and in
any comp.sources.unix archive. You will also need to hack the code some.

Found in path(s):
* /opt/cola/permits/1411214195_1662634382.433482/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/INSTALL

1.804 python-httplib2 0.20.2-2

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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1.806 xkeyboard-config 2.33-1

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1.807 libxmlb 0.3.6-2build1

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 xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
 xmlns:xi="http://www.w3.org/2001/XInclude"
 xmlns:db="http://docbook.org/ns/docbook">

 <xsl:template name="isc.copyright.format">
   <xsl:param name="text"/>
   <xsl:value-of select="$isc.copyright.leader"/>
   <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
   <xsl:text>&#10;</xsl:text>
   <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
   <xsl:if test="translate($rest, '&#9;&#32;', '')">

     <xsl:call-template name="isc.copyright.format">
       <xsl:with-param name="text" select="$rest"/>
     </xsl:call-template>
   </xsl:if>
 </xsl:template>

 <xsl:variable name="isc.copyright.text">
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 <xsl:variable name="isc.copyright">
   <xsl:call-template name="isc.copyright.format">
     <xsl:with-param name="text">
       <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
   <xsl:text>Copyright (C) </xsl:text>
   <xsl:call-template name="copyright.years">
     <xsl:with-param name="years" select="year"/>
   </xsl:call-template>
   <xsl:text> </xsl:text>
   <xsl:value-of select="holder"/>
         <xsl:value-of select="$isc.copyright.breakline"/>
   <xsl:text>&#10;</xsl:text>
 </xsl:for-each>
 <xsl:value-of
 select="$isc.copyright.text"/>
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1.816 libnl3 3.5.0-0.1

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1.817 parted 3.4-2build1

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1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

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distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this
License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
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containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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components (compiler, kernel, and so on) of the operating system on
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1.819 libusb 1.0.25-1ubuntu2

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 xmlns:db="http://docbook.org/ns/docbook">

 <xsl:template name="isc.copyright.format">
   <xsl:param name="text"/>
   <xsl:value-of select="$isc.copyright.leader"/>
   <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
   <xsl:text>&#10;</xsl:text>
   <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
   <xsl:if test="translate($rest, '&#9;&#32;', '')">

     <xsl:call-template name="isc.copyright.format">
       <xsl:with-param name="text" select="$rest"/>
     </xsl:call-template>
   </xsl:if>
 </xsl:template>

 <xsl:variable name="isc.copyright.text">
   <xsl:text>
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   </xsl:text>
 </xsl:variable>

 <xsl:variable name="isc.copyright">
   <xsl:call-template name="isc.copyright.format">
     <xsl:with-param name="text">
       <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
   <xsl:text>Copyright (C) </xsl:text>
   <xsl:call-template name="copyright.years">
```

```
    <xsl:with-param name="years" select="year"/>
   </xsl:call-template>
   <xsl:text> </xsl:text>
   <xsl:value-of select="holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
   <xsl:text>&#10;</xsl:text>
 </xsl:for-each>
 <xsl:value-of
 select="$isc.copyright.text"/>
    </xsl:with-param>
   </xsl:call-template>
 </xsl:variable>
</xsl:stylesheet>

<!--
 - Local variables:
 - mode: sgml
 - End:
-->
```

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1.822 gsettings-desktop-schemas 42.0-1ubuntu1

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting

the free library to free
software only, so we use the Lesser General Public License.

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any

application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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must be distributed under the terms of Sections 1 and 2 above on a
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If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
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5. A program that contains no derivative of any portion of the
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work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that
uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the
object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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1.823 lvm2 2.03.11-2.1ubuntu4

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves,
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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1.829 libtext-iconv-perl 1.7-7build3

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Text::Iconv Version 1.6

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Description

This module provides a Perl interface to the iconv() codeset
conversion function, as defined by the Single UNIX Specification. For
more details see the POD documentation embedded in the file Iconv.pm,
which will also be installed as Text::Iconv(3) man page.

Prerequisites

Your system should be compliant with the Single UNIX Specification or

at least provide iconv_open(), iconv() and iconv_close() functions compliant with it.

Note that the possible conversions and the quality of the conversions depend on the available iconv conversion tables and algorithms, which are in most cases supplied by the operating system vendor. Some systems also allow you to build your own tables (e.g., HP-UX, Tru64 UNIX, and AIX provide the genxlt(1) command).

It is also possible to use a separate iconv library such as GNU libiconv package, just make sure that the desired library is found (see <http://www.gnu.org/directory/localization/libiconv.html>).

Building the module

Since the Single UNIX Specification only specifies an interface, several issues are left to the implementation to define, namely:

1. The supported codesets
2. The supported conversions
3. The names for the supported codesets

Please check your system documentation for the above points.

The module can be built using this sequence of commands:

```
perl Makefile.PL
make
make test
```

On some systems, the iconv functions are in libc; on others (and when you want to use a separate iconv library, such as GNU libiconv), you have to link with -liconv. Makefile.PL tries to automatically detect this. However, if your iconv library is in a non-standard path, you might have to help it. You can specify library and include paths like this:

```
perl Makefile.PL LIBS='-L/path/to/lib' INC='-I/path/to/include
```

You might also have to do this if you have multiple iconv implementations installed and want to use a specific one.

The purpose of the test scripts (run by "make test") is to check if an iconv library can be found, and if the iconv functions can be called. It is neither intended to find out which conversions are supported,

nor to test the quality of the conversions provided by your iconv library. However, since the iconv functions can only be tested by calling them, which in turn requires the specification of codesets to be converted. The test scripts try some conversions which seem to be widely supported. Conversions not supported by your iconv implementation are skipped, but for the purpose outlined above this is no problem, as it shows that the iconv functions are working. There is no standard way to find out which conversions are supported by an implementation.

This is also the reason why Text::Iconv can't provide platform-independent support for codeset identifiers (even if it it would be nice to have).

Installation

```
make install
```

Feedback

Text::Iconv was tested on various platforms and with different iconv implementations.

If you built Text::Iconv on a platform where you needed to specify additional libraries, or where none of the codeset identifiers in the test scripts are supported, please drop me a note.

Thanks

Thanks go to all those who reported bugs and suggested features.

Michael Piotrowski <mxp@dynalabs.de>

Found in path(s):
* /opt/cola/permits/1411689615_1662667649.5366168/0/libtext-iconv-perl-1-7-orig-2-tar-bz2/Text-Iconv-1.7/README
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/1411689615_1662667649.5366168/0/libtext-iconv-perl-1-7-orig-2-tar-bz2/Text-Iconv-1.7/README: binary file matches

Found in path(s):
* /bin/grep

1.830 x-kit 0.5.0ubuntu5

1.830.1 Available under license :

This package has been debianized by Alberto Milone
<albertomilone@alice.it> on September 21, 2007.

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1.831 libteam 1.31-1build2

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1.833 pygobject 3.42.1-0ubuntu1

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1.840 libtext-charwidth-perl 0.04-10build3

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Text::CharWidth version 0.04
==========

This is a module to provide equivalent feature as wcwidth(3) and
wcswidth(3). This also provides mblen(3) equivalent subroutine.

mbwidth() and mbswidth() are provided subroutines corresponding
wcwidth(3) and wcswidth(3) in C language. The prefix "mb" expresses
that they handles "multibyte character" in C meaning, i.e., character
encoding specified by LC_CTYPE locale.

These subroutines are used to get the width of characters on terminal.
Though most characters have width of 1, there are exceptions.
Fullwidth characters are characters with width of 2. Most of east
Asian characters such as Hiragana, Katakana, Hangul, Han Ideogram
are fullwidth. Combining characters are characters with width of 0.
Unicode has many combining characters like diacritical marks. There
are languages which need combining characters such as Thai and
Vietnamese.

Thus, if you would
like to format international texts on terminal,
you will have to be aware of variation of character width and will
want to use this module.

mblen() returns the number of bytes for the first character of
the given string. In 8bit character encodings, it is always 1.
However, in multibyte encodings, this may be more than 1.

The parameter is given in locale encoding, not UTF-8 string.
(Of course locale encoding is UTF-8 in UTF-8 locales.)

Prerequisites

This module requires your system to have wcwidth(), wcswidth(), and
mblen() functions which are complian with the Single Unix Specification.

Build and Install

Please use standard way to build and install this module:

```
perl Makefile.PL
make
make install
```

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=head1 NAME

Text::CharWidth - Get number of occupied columns of a string on terminal

=head1 SYNOPSIS

```
use Text::CharWidth qw(mbwidth mbswidth mblen);
mbwidth(string);
mbswidth(string);
mblen(string);
```

=head1 DESCRIPTION

This module supplies features similar as wcwidth(3) and wcswidth(3)
in C language.

Characters have its own width on terminal depending on locale.
For example, ASCII characters occupy one column per character,
east Asian fullwidth characters (like Hiragana or Han Ideograph)
occupy two columns per character, and combining characters (apperaring
in ISO-8859-11 Thai, Unicode, and so on) occupy zero columns per
character. mbwidth() gives the width of the first character of
the given string and mbswidth() gives the width of the whole given
string.

The names of mbwidth and mbswidth came from "multibyte" versions
of wcwidth and
 wcswidth which are "wide character" versions.

I<mblen(string)> returns number of bytes of the first character of the
string. Please note that a character may consist of multiple
bytes in multibyte encodings such as UTF-8, EUC-JP, EUC-KR,
GB2312, or Big5.

I<mbwidth(string)> returns the width of the first character of the
string. I<mbswidth(string)> returns the width of the whole string.

Parameters are to be given in locale encodings, not always in UTF-8.

=head1 SEE ALSO

locale(5), wcwidth(3), wcswidth(3)

=head1 AUTHOR

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=cut

Found in path(s):
* /opt/cola/permits/1411688463_1662667752.3869967/0/libtext-charwidth-perl-0-04-orig-2-tar-bz2/libtext-charwidth-perl-0.04.orig/CharWidth.pm
No license file was found, but licenses were detected in source scan.

/* ppport.h -- Perl/Pollution/Portability Version 2.0002
*

```
* Automatically Created by Devel::PPPort on Thu Jun 19 12:28:11 2003
*
* Do NOT edit this file directly! -- Edit PPPort.pm instead.
*
* Version 2.x, Copyright (C) 2001, Paul Marquess.
* Version 1.x, Copyright (C) 1999, Kenneth Albanowski.
* This code may be used and distributed under the same license as any
* version of Perl.
*
* This version of ppport.h is designed to support operation with Perl
* installations back to 5.004, and has been tested up to 5.8.0.
*
* If this version of ppport.h is failing during the compilation of this
* module, please check if a newer version of Devel::PPPort is available
* on CPAN before sending a bug report.
*
* If you are using the latest version of Devel::PPPort and it is failing
* during compilation of this module, please send a report to perlbug@perl.com
*
* Include all following information:
*
*
  1. The complete output from running "perl -V"
*
*  2. This file.
*
*  3. The name & version of the module you were trying to build.
*
*  4. A full log of the build that failed.
*
*  5. Any other information that you think could be relevant.
*
*
* For the latest version of this code, please retreive the Devel::PPPort
* module from CPAN.
*
*/
```

Found in path(s):
* /opt/cola/permits/1411688463_1662667752.3869967/0/libtext-charwidth-perl-0-04-orig-2-tar-bz2/libtext-charwidth-perl-0.04.orig/ppport.h

1.841 mtr 0.95-1

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1.842 snowball 2.2.0-1build1

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1.843 dosfs-tools 4.2-1build3

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1.847 libxrender 0.9.10-1build4

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1.849 groff 1.22.4-8build1

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src/preproc/grn/gprint.h
src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp

. The `gxditview' output device. It is based on X11's `xditview' program
and thus has the X license.

src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

src/include/DviChar.h
src/include/XFontName.h

src/libs/libxutil/DviChar.c
src/libs/libxutil/XFontName.c

Macro Packages

. The -mdoc macro set, using the BSD license.

tmac/doc.tmac
tmac/doc-old.tmac
tmac/doc-common
tmac/doc-ditroff
tmac/doc-nroff
tmac/doc-syms
tmac/groff_mdoc.man

. The -me macro set, using the BSD license.

tmac/e.tmac
tmac/groff_me.man
doc/meintro.me
doc/meintro_fr.me
doc/meref.me

Hyphenation Patterns

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of the TeX system written by Donald E. Knuth; the master file can be found at

ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex .

It has been renamed for consistency, i.e., to make patterns available under the filenames `hyphen.<language>', e.g. `hyphen.de' or `hyphen.uk'.

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. The file `tmac/hyphen.fr' contains the
same patterns as the file
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. The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehypht-x-2017-03-31.pat' and `dehyphn-x-2017-03-31.pat' (for TeX), respectively, which can be found at

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. The file `tmac/hyphen.cs' contains the same patterns as the file `czhyphen.tex' (for TeX), which can be found in the archive

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@Ci{$Id: manual.of,v 1.167.1.2 2018/06/26 15:49:07 roberto Exp $}
@C{[(----------}
@manual{

@sect1{@title{Introduction}

Lua is a powerful, efficient, lightweight, embeddable scripting language.
It supports procedural programming,
object-oriented programming, functional programming,
data-driven programming, and data description.

Lua combines simple procedural syntax with powerful data description
constructs based on associative arrays and extensible semantics.
Lua is dynamically typed,
runs by interpreting bytecode with a register-based
virtual machine,
and has automatic memory management with
incremental garbage collection,
making it ideal for configuration, scripting,
and rapid prototyping.

Lua is implemented as a library, written in @emphx{clean C},
the common subset of @N{Standard C} and C++.
The Lua distribution includes a host program called @id{lua},
which
 uses the Lua library to offer a complete,
standalone Lua interpreter,
for interactive or batch use.
Lua is intended to be used both as a powerful, lightweight,
embeddable scripting language for any program that needs one,
and as a powerful but lightweight and efficient stand-alone language.

As an extension language, Lua has no notion of a @Q{main} program:
it works @emph{embedded} in a host client,
called the @emph{embedding program} or simply the @emphx{host}.
(Frequently, this host is the stand-alone @id{lua} program.)
The host program can invoke functions to execute a piece of Lua code,
can write and read Lua variables,
and can register @N{C functions} to be called by Lua code.
Through the use of @N{C functions}, Lua can be augmented to cope with
a wide range of different domains,
thus creating customized programming languages sharing a syntactical framework.

Lua is free software,
and is provided as usual with no guarantees,
as stated in its license.
The implementation

described in this manual is available
at Lua's official web site, @id{www.lua.org}.

Like any other reference manual,
this document is dry in places.
For a discussion of the decisions behind the design of Lua,
see the technical papers available at Lua's web site.
For a detailed introduction to programming in Lua,
see Roberto's book, @emphx{Programming in Lua}.

}

@C{----------}
@sect1{basic| @title{Basic Concepts}

This section describes the basic concepts of the language.

@sect2{TypesSec| @title{Values and Types}

Lua is a @emph{dynamically typed language}.
This means that
variables do not have types; only values do.
There are no type definitions in the language.
All values carry their own type.

All values in Lua are @emph{first-class values}.
This means that all values can be stored in variables,
passed as arguments to other functions, and returned as results.

There are eight @x{basic types} in Lua:
@def{nil}, @def{boolean},
@def{number},
@def{string}, @def{function}, @def{userdata},
@def{thread}, and @def{table}.
The type @emph{nil} has one single value, @nil,
whose main property is to be different from any other value;
it usually represents the absence of a useful value.
The type @emph{boolean} has two values, @false and @true.
Both @nil and @false make a condition false;
any other value makes it true.
The type @emph{number} represents both
integer numbers and real (floating-point) numbers.
The type @emph{string} represents immutable sequences of bytes.
@index{eight-bit clean}
Lua is 8-bit clean:
strings can contain any 8-bit value,
including @x{embedded zeros} (@Char{\0}).

Lua is also encoding-agnostic;
it makes no assumptions about the contents of a string.

The type @emph{number} uses two internal representations,
or two @x{subtypes},
one called @def{integer} and the other called @def{float}.
Lua has explicit rules about when each representation is used,
but it also converts between them automatically
as needed @see{coercion}.
Therefore,
the programmer may choose to mostly ignore the difference
between integers and floats
or to assume complete control over the representation of each number.
Standard Lua uses 64-bit integers and double-precision (64-bit) floats,
but you can also compile Lua so that it
uses 32-bit integers and/or single-precision (32-bit) floats.
The option with 32 bits for both integers and floats
is particularly attractive
for small machines and embedded systems.
(See macro @id{LUA_32BITS} in file @id{luaconf.h}.)

Lua can call (and manipulate) functions written in Lua and
functions written in C @see{functioncall}.
Both are represented by the type @emph{function}.

The type @emph{userdata} is provided to allow arbitrary @N{C data} to
be stored in Lua variables.
A userdata value represents a block of raw memory.
There are two kinds of userdata:
@emphx{full userdata},
which is an object with a block of memory managed by Lua,
and @emphx{light userdata},
which
is simply a @N{C pointer} value.
Userdata has no predefined operations in Lua,
except assignment and identity test.
By using @emph{metatables},
the programmer can define operations for full userdata values
@see{metatable}.
Userdata values cannot be created or modified in Lua,
only through the @N{C API}.
This guarantees the integrity of data owned by the host program.

The type @def{thread} represents independent threads of execution
and it is used to implement coroutines @see{coroutine}.
Lua threads are not related to operating-system threads.
Lua supports coroutines on all systems,
even those that do not support threads natively.

The type @emph{table} implements @x{associative arrays},
that is, @x{arrays} that can have as indices not only numbers,
but any Lua value except @nil and @x{NaN}.
(@emphx{Not a Number} is a special value used to represent
undefined or unrepresentable numerical results, such as @T{0/0}.)
Tables can be @emph{heterogeneous};
that is, they can contain values of
all types (except @nil).
Any key with value @nil is not considered part of the table.
Conversely, any key that is not part of a table has
an associated value @nil.

Tables are the sole data-structuring mechanism in Lua;
they can be used to represent ordinary arrays, lists,
symbol tables, sets, records, graphs, trees, etc.
To represent @x{records}, Lua uses the field name as an index.
The language supports this representation by
providing @id{a.name} as syntactic sugar for @T{a["name"]}.
There are several convenient ways to create tables in Lua
@see{tableconstructor}.

Like indices,
the values of table fields can be of any type.
In particular,
because functions are first-class values,
table fields can contain functions.
Thus tables can also carry @emph{methods} @see{func-def}.

The indexing of tables follows
the definition of raw equality in the language.
The expressions @T{a[i]} and @T{a[j]}
denote the same table element
if and only if @id{i} and @id{j} are raw equal
(that is, equal
without metamethods).
In particular, floats with integral values
are equal to their respective integers
(e.g., @T{1.0 == 1}).
To avoid ambiguities,
any float with integral value used as a key
is converted to its respective integer.
For instance, if you write @T{a[2.0] = true},
the actual key inserted into the table will be the
integer @T{2}.
(On the other hand,
2 and @St{2} are different Lua values and therefore
denote different table entries.)

Tables, functions, threads, and (full) userdata values are @emph{objects}:
variables do not actually @emph{contain} these values,
only @emph{references} to them.
Assignment, parameter passing, and function returns
always manipulate references to such values;
these operations do not imply any kind of copy.

The library function @Lid{type} returns a string describing the type
of a given value @see{predefined}.

}

@sect2{globalenv| @title{Environments and the Global Environment}

As will be discussed in @refsec{variables} and @refsec{assignment},
any
reference to a free name
(that is, a name not bound to any declaration) @id{var}
is syntactically translated to @T{_ENV.var}.
Moreover, every chunk is compiled in the scope of
an external local variable named @id{_ENV} @see{chunks},
so @id{_ENV} itself is never a free name in a chunk.

Despite the existence of this external @id{_ENV} variable and
the translation of free names,
@id{_ENV} is a completely regular name.
In particular,
you can define new variables and parameters with that name.
Each reference to a free name uses the @id{_ENV} that is
visible at that point in the program,
following the usual visibility rules of Lua @see{visibility}.

Any table used as the value of @id{_ENV} is called an @def{environment}.

Lua keeps a distinguished environment called the @def{global environment}.
This value is kept at a special index in the C registry @see{registry}.
In Lua, the global variable @Lid{_G} is initialized with this same value.
(@Lid{_G} is never used internally.)

When Lua
loads a chunk,
the default value for its @id{_ENV} upvalue
is the global environment @seeF{load}.
Therefore, by default,
free names in Lua code refer to entries in the global environment
(and, therefore, they are also called @def{global variables}).

Moreover, all standard libraries are loaded in the global environment
and some functions there operate on that environment.
You can use @Lid{load} (or @Lid{loadfile})
to load a chunk with a different environment.
(In C, you have to load the chunk and then change the value
of its first upvalue.)

}

@sect2{error| @title{Error Handling}

Because Lua is an embedded extension language,
all Lua actions start from @N{C code} in the host program
calling a function from the Lua library.
(When you use Lua standalone,
the @id{lua} application is the host program.)
Whenever an error occurs during
the compilation or execution of a Lua chunk,
control returns to the host,
which can take appropriate measures
(such as printing an error message).

Lua code
can explicitly generate an error by calling the
@Lid{error} function.
If you need to catch errors in Lua,
you can use @Lid{pcall} or @Lid{xpcall}
to call a given function in @emphx{protected mode}.

Whenever there is an error,
an @def{error object} (also called an @def{error message})
is propagated with information about the error.
Lua itself only generates errors whose error object is a string,
but programs may generate errors with
any value as the error object.
It is up to the Lua program or its host to handle such error objects.

When you use @Lid{xpcall} or @Lid{lua_pcall},
you may give a @def{message handler}
to be called in case of errors.
This function is called with the original error object
and returns a new error object.
It is called before the error unwinds the stack,
so that it can gather more information about the error,
for instance by inspecting the stack and creating a stack traceback.
This message handler is still protected by the protected call;
so, an error inside

the message handler
will call the message handler again.
If this loop goes on for too long,
Lua breaks it and returns an appropriate message.
(The message handler is called only for regular runtime errors.
It is not called for memory-allocation errors
nor for errors while running finalizers.)

}

@sect2{metatable| @title{Metatables and Metamethods}

Every value in Lua can have a @emph{metatable}.
This @def{metatable} is an ordinary Lua table
that defines the behavior of the original value
under certain special operations.
You can change several aspects of the behavior
of operations over a value by setting specific fields in its metatable.
For instance, when a non-numeric value is the operand of an addition,
Lua checks for a function in the field @St{__add} of the value's metatable.
If it finds one,
Lua calls this function to perform the addition.

The key for each event in a metatable is a string
with the event name prefixed by two underscores;
the corresponding values are called @def{metamethods}.
In
the previous example, the key is @St{__add}
and the metamethod is the function that performs the addition.
Unless stated otherwise,
metamethods should be function values.

You can query the metatable of any value
using the @Lid{getmetatable} function.
Lua queries metamethods in metatables using a raw access @seeF{rawget}.
So, to retrieve the metamethod for event @id{ev} in object @id{o},
Lua does the equivalent to the following code:
@verbatim{
rawget(getmetatable(@rep{o}) or {}, "__@rep{ev}")
}

You can replace the metatable of tables
using the @Lid{setmetatable} function.
You cannot change the metatable of other types from Lua code
(except by using the @link{debuglib|debug library});
you should use the @N{C API} for that.

Tables and full userdata have individual metatables

(although multiple tables and userdata can share their metatables).
Values of all other types share one single metatable per type;
that is, there is one single metatable for all numbers,
one for all
 strings, etc.
By default, a value has no metatable,
but the string library sets a metatable for the string type @see{strlib}.

A metatable controls how an object behaves in
arithmetic operations, bitwise operations,
order comparisons, concatenation, length operation, calls, and indexing.
A metatable also can define a function to be called
when a userdata or a table is @link{GC|garbage collected}.

For the unary operators (negation, length, and bitwise NOT),
the metamethod is computed and called with a dummy second operand,
equal to the first one.
This extra operand is only to simplify Lua's internals
(by making these operators behave like a binary operation)
and may be removed in future versions.
(For most uses this extra operand is irrelevant.)

A detailed list of events controlled by metatables is given next.
Each operation is identified by its corresponding key.

@description{

@item{@idx{__add}|
the addition (@T{+}) operation.
If any operand for an addition is not a number
(nor
 a string coercible to a number),
Lua will try to call a metamethod.
First, Lua will check the first operand (even if it is valid).
If that operand does not define a metamethod for @idx{__add},
then Lua will check the second operand.
If Lua can find a metamethod,
it calls the metamethod with the two operands as arguments,
and the result of the call
(adjusted to one value)
is the result of the operation.
Otherwise,
it raises an error.
}

@item{@idx{__sub}|
the subtraction (@T{-}) operation.
Behavior similar to the addition operation.

}

@item{@idx{__mul}|
the multiplication (@T{*}) operation.
Behavior similar to the addition operation.
}

@item{@idx{__div}|
the division (@T{/}) operation.
Behavior similar to the addition operation.
}

@item{@idx{__mod}|
the modulo (@T{%}) operation.
Behavior similar to the addition operation.
}

@item{@idx{__pow}|
the exponentiation (@T{^}) operation.
Behavior similar to the addition operation.
}

@item{@idx{__unm}|
the negation (unary @T{-}) operation.
Behavior
 similar to the addition operation.
}

@item{@idx{__idiv}|
the floor division (@T{//}) operation.
Behavior similar to the addition operation.
}

@item{@idx{__band}|
the bitwise AND (@T{&}) operation.
Behavior similar to the addition operation,
except that Lua will try a metamethod
if any operand is neither an integer
nor a value coercible to an integer @see{coercion}.
}

@item{@idx{__bor}|
the bitwise OR (@T{|}) operation.
Behavior similar to the bitwise AND operation.
}

@item{@idx{__bxor}|
the bitwise exclusive OR (binary @T{~}) operation.

Behavior similar to the bitwise AND operation.
}

@item{@idx{__bnot}|
the bitwise NOT (unary @T{~}) operation.
Behavior similar to the bitwise AND operation.
}

@item{@idx{__shl}|
the bitwise left shift (@T{<<}) operation.
Behavior similar to the bitwise AND operation.
}

@item{@idx{__shr}|
the bitwise right shift (@T{>>}) operation.
Behavior similar to the bitwise AND operation.
}

@item{@idx{__concat}|
the concatenation (@T{..}) operation.
Behavior
 similar to the addition operation,
except that Lua will try a metamethod
if any operand is neither a string nor a number
(which is always coercible to a string).
}

@item{@idx{__len}|
the length (@T{#}) operation.
If the object is not a string,
Lua will try its metamethod.
If there is a metamethod,
Lua calls it with the object as argument,
and the result of the call
(always adjusted to one value)
is the result of the operation.
If there is no metamethod but the object is a table,
then Lua uses the table length operation @see{len-op}.
Otherwise, Lua raises an error.
}

@item{@idx{__eq}|
the equal (@T{==}) operation.
Behavior similar to the addition operation,
except that Lua will try a metamethod only when the values
being compared are either both tables or both full userdata
and they are not primitively equal.
The result of the call is always converted to a boolean.

}

@item{@idx{__lt}|
the less than (@T{<}) operation.
Behavior similar to the addition operation,
except that
 Lua will try a metamethod only when the values
being compared are neither both numbers nor both strings.
The result of the call is always converted to a boolean.
}

@item{@idx{__le}|
the less equal (@T{<=}) operation.
Unlike other operations,
the less-equal operation can use two different events.
First, Lua looks for the @idx{__le} metamethod in both operands,
like in the less than operation.
If it cannot find such a metamethod,
then it will try the @idx{__lt} metamethod,
assuming that @T{a <= b} is equivalent to @T{not (b < a)}.
As with the other comparison operators,
the result is always a boolean.
(This use of the @idx{__lt} event can be removed in future versions;
it is also slower than a real @idx{__le} metamethod.)
}

@item{@idx{__index}|
The indexing access operation @T{table[key]}.
This event happens when @id{table} is not a table or
when @id{key} is not present in @id{table}.
The metamethod is looked up in @id{table}.

Despite the name,
the metamethod for this event can be either
 a function or a table.
If it is a function,
it is called with @id{table} and @id{key} as arguments,
and the result of the call
(adjusted to one value)
is the result of the operation.
If it is a table,
the final result is the result of indexing this table with @id{key}.
(This indexing is regular, not raw,
and therefore can trigger another metamethod.)
}

@item{@idx{__newindex}|
The indexing assignment @T{table[key] = value}.

Like the index event,
this event happens when @id{table} is not a table or
when @id{key} is not present in @id{table}.
The metamethod is looked up in @id{table}.

Like with indexing,
the metamethod for this event can be either a function or a table.
If it is a function,
it is called with @id{table}, @id{key}, and @id{value} as arguments.
If it is a table,
Lua does an indexing assignment to this table with the same key and value.
(This assignment is regular, not raw,
and therefore can trigger another metamethod.)

Whenever there is a @idx{__newindex} metamethod,
Lua
 does not perform the primitive assignment.
(If necessary,
the metamethod itself can call @Lid{rawset}
to do the assignment.)
}

@item{@idx{__call}|
The call operation @T{func(args)}.
This event happens when Lua tries to call a non-function value
(that is, @id{func} is not a function).
The metamethod is looked up in @id{func}.
If present,
the metamethod is called with @id{func} as its first argument,
followed by the arguments of the original call (@id{args}).
All results of the call
are the result of the operation.
(This is the only metamethod that allows multiple results.)
}

}

It is a good practice to add all needed metamethods to a table
before setting it as a metatable of some object.
In particular, the @idx{__gc} metamethod works only when this order
is followed @see{finalizers}.

Because metatables are regular tables,
they can contain arbitrary fields,
not only the event names defined above.
Some functions in the standard library
(e.g., @Lid{tostring})
use other fields in metatables

for their own purposes.

}

@sect2{GC| @title{Garbage Collection}

Lua performs automatic memory management.
This means that
you do not have to worry about allocating memory for new objects
or freeing it when the objects are no longer needed.
Lua manages memory automatically by running
a @def{garbage collector} to collect all @emph{dead objects}
(that is, objects that are no longer accessible from Lua).
All memory used by Lua is subject to automatic management:
strings, tables, userdata, functions, threads, internal structures, etc.

Lua implements an incremental mark-and-sweep collector.
It uses two numbers to control its garbage-collection cycles:
the @def{garbage-collector pause} and
the @def{garbage-collector step multiplier}.
Both use percentage points as units
(e.g., a value of 100 means an internal value of 1).

The garbage-collector pause
controls how long the collector waits before starting a new cycle.
Larger values make the collector less aggressive.
Values smaller than
100 mean the collector will not wait to
start a new cycle.
A value of 200 means that the collector waits for the total memory in use
to double before starting a new cycle.

The garbage-collector step multiplier
controls the relative speed of the collector relative to
memory allocation.
Larger values make the collector more aggressive but also increase
the size of each incremental step.
You should not use values smaller than 100,
because they make the collector too slow and
can result in the collector never finishing a cycle.
The default is 200,
which means that the collector runs at @Q{twice}
the speed of memory allocation.

If you set the step multiplier to a very large number
(larger than 10% of the maximum number of
bytes that the program may use),
the collector behaves like a stop-the-world collector.

If you then set the pause to 200,
the collector behaves as in old Lua versions,
doing a complete collection every time Lua doubles its
memory usage.

You can change these numbers
by calling @Lid{lua_gc} in C
or @Lid{collectgarbage} in Lua.
You can also use these functions to control
the collector directly (e.g., stop and restart it).

@sect3{finalizers| @title{Garbage-Collection Metamethods}

You can set garbage-collector metamethods for tables
and, using the @N{C API},
for full userdata @see{metatable}.
These metamethods are also called @def{finalizers}.
Finalizers allow you to coordinate Lua's garbage collection
with external resource management
(such as closing files, network or database connections,
or freeing your own memory).

For an object (table or userdata) to be finalized when collected,
you must @emph{mark} it for finalization.
@index{mark (for finalization)}
You mark an object for finalization when you set its metatable
and the metatable has a field indexed by the string @St{__gc}.
Note that if you set a metatable without a @idx{__gc} field
and later create that field in the metatable,
the object will not be marked for finalization.

When a marked
object becomes garbage,
it is not collected immediately by the garbage collector.
Instead, Lua puts it in a list.
After the collection,
Lua goes through that list.
For each object in the list,
it checks the object's @idx{__gc} metamethod:
If it is a function,
Lua calls it with the object as its single argument;
if the metamethod is not a function,
Lua simply ignores it.

At the end of each garbage-collection cycle,
the finalizers for objects are called in
the reverse order that the objects were marked for finalization,

among those collected in that cycle;
that is, the first finalizer to be called is the one associated
with the object marked last in the program.
The execution of each finalizer may occur at any point during
the execution of the regular code.

Because the object being collected must still be used by the finalizer,
that object (and other objects accessible only through it)
must be @emph{resurrected} by Lua.@index{resurrection}
Usually, this resurrection is transient,
and the
 object memory is freed in the next garbage-collection cycle.
However, if the finalizer stores the object in some global place
(e.g., a global variable),
then the resurrection is permanent.
Moreover, if the finalizer marks a finalizing object for finalization again,
its finalizer will be called again in the next cycle where the
object is unreachable.
In any case,
the object memory is freed only in a GC cycle where
the object is unreachable and not marked for finalization.

When you close a state @seeF{lua_close},
Lua calls the finalizers of all objects marked for finalization,
following the reverse order that they were marked.
If any finalizer marks objects for collection during that phase,
these marks have no effect.

}

@sect3{weak-table| @title{Weak Tables}

A @def{weak table} is a table whose elements are
@def{weak references}.
A weak reference is ignored by the garbage collector.
In other words,
if the only references to an object are weak references,
then the garbage collector
 will collect that object.

A weak table can have weak keys, weak values, or both.
A table with weak values allows the collection of its values,
but prevents the collection of its keys.
A table with both weak keys and weak values allows the collection of
both keys and values.
In any case, if either the key or the value is collected,
the whole pair is removed from the table.
The weakness of a table is controlled by the

@idx{__mode} field of its metatable.
If the @idx{__mode} field is a string containing the @N{character @Char{k}},
the keys in the table are weak.
If @idx{__mode} contains @Char{v},
the values in the table are weak.

A table with weak keys and strong values
is also called an @def{ephemeron table}.
In an ephemeron table,
a value is considered reachable only if its key is reachable.
In particular,
if the only reference to a key comes through its value,
the pair is removed.

Any change in the weakness of a table may take effect only
at the next collect cycle.
In particular, if
you change the weakness to a stronger mode,
Lua may still collect some items from that table
before the change takes effect.

Only objects that have an explicit construction
are removed from weak tables.
Values, such as numbers and @x{light @N{C functions}},
are not subject to garbage collection,
and therefore are not removed from weak tables
(unless their associated values are collected).
Although strings are subject to garbage collection,
they do not have an explicit construction,
and therefore are not removed from weak tables.

Resurrected objects
(that is, objects being finalized
and objects accessible only through objects being finalized)
have a special behavior in weak tables.
They are removed from weak values before running their finalizers,
but are removed from weak keys only in the next collection
after running their finalizers, when such objects are actually freed.
This behavior allows the finalizer to access properties
associated with the object through weak tables.

If a weak
table is among the resurrected objects in a collection cycle,
it may not be properly cleared until the next cycle.

}

}

@sect2{coroutine| @title{Coroutines}

Lua supports coroutines,
also called @emphx{collaborative multithreading}.
A coroutine in Lua represents an independent thread of execution.
Unlike threads in multithread systems, however,
a coroutine only suspends its execution by explicitly calling
a yield function.

You create a coroutine by calling @Lid{coroutine.create}.
Its sole argument is a function
that is the main function of the coroutine.
The @id{create} function only creates a new coroutine and
returns a handle to it (an object of type @emph{thread});
it does not start the coroutine.

You execute a coroutine by calling @Lid{coroutine.resume}.
When you first call @Lid{coroutine.resume},
passing as its first argument
a thread returned by @Lid{coroutine.create},
the coroutine starts its execution by
calling its main function.
Extra arguments passed to @Lid{coroutine.resume}
are passed
as arguments to that function.
After the coroutine starts running,
it runs until it terminates or @emph{yields}.

A coroutine can terminate its execution in two ways:
normally, when its main function returns
(explicitly or implicitly, after the last instruction);
and abnormally, if there is an unprotected error.
In case of normal termination,
@Lid{coroutine.resume} returns @true,
plus any values returned by the coroutine main function.
In case of errors, @Lid{coroutine.resume} returns @false
plus an error object.

A coroutine yields by calling @Lid{coroutine.yield}.
When a coroutine yields,
the corresponding @Lid{coroutine.resume} returns immediately,
even if the yield happens inside nested function calls
(that is, not in the main function,
but in a function directly or indirectly called by the main function).
In the case of a yield, @Lid{coroutine.resume} also returns @true,
plus any values passed to @Lid{coroutine.yield}.
The next time you resume the same coroutine,

it
 continues its execution from the point where it yielded,
with the call to @Lid{coroutine.yield} returning any extra
arguments passed to @Lid{coroutine.resume}.

Like @Lid{coroutine.create},
the @Lid{coroutine.wrap} function also creates a coroutine,
but instead of returning the coroutine itself,
it returns a function that, when called, resumes the coroutine.
Any arguments passed to this function
go as extra arguments to @Lid{coroutine.resume}.
@Lid{coroutine.wrap} returns all the values returned by @Lid{coroutine.resume},
except the first one (the boolean error code).
Unlike @Lid{coroutine.resume},
@Lid{coroutine.wrap} does not catch errors;
any error is propagated to the caller.

As an example of how coroutines work,
consider the following code:
@verbatim{
```
function foo (a)
 print("foo", a)
 return coroutine.yield(2*a)
end

co = coroutine.create(function (a,b)
    print("co-body", a, b)
    local r = foo(a+1)
    print("co-body", r)
    local r, s = coroutine.yield(a+b,
 a-b)
    print("co-body", r, s)
    return b, "end"
end)

print("main", coroutine.resume(co, 1, 10))
print("main", coroutine.resume(co, "r"))
print("main", coroutine.resume(co, "x", "y"))
print("main", coroutine.resume(co, "x", "y"))
```
}
When you run it, it produces the following output:
@verbatim{
```
co-body 1       10
foo     2
main    true    4
co-body r
main    true    11      -9
co-body x       y
```

```
main    true    10      end
main    false   cannot resume dead coroutine
}
```

You can also create and manipulate coroutines through the C API:
see functions @Lid{lua_newthread}, @Lid{lua_resume},
and @Lid{lua_yield}.

}

}

@C{----------}
@sect1{language| @title{The Language}

This section describes the lexis, the syntax, and the semantics of Lua.
In other words,
this section describes
which tokens are valid,
how they can be combined,
and what their combinations mean.

Language constructs will be explained using the usual extended
 BNF notation,
in which
@N{@bnfrep{@rep{a}} means 0} or more @rep{a}'s, and
@N{@bnfopt{@rep{a}} means} an optional @rep{a}.
Non-terminals are shown like @bnfNter{non-terminal},
keywords are shown like @rw{kword},
and other terminal symbols are shown like @bnfter{=}.
The complete syntax of Lua can be found in @refsec{BNF}
at the end of this manual.

@sect2{lexical| @title{Lexical Conventions}

Lua is a @x{free-form} language.
It ignores spaces (including new lines) and comments
between lexical elements (@x{tokens}),
except as delimiters between @x{names} and @x{keywords}.

@def{Names}
(also called @def{identifiers})
in Lua can be any string of letters,
digits, and underscores,
not beginning with a digit and
not being a reserved word.
Identifiers are used to name variables, table fields, and labels.

The following @def{keywords} are reserved
and cannot be used as names:
@index{reserved words}
@verbatim{
and break do else elseif end
false for function
goto if in
local nil not or repeat return
then true until while
}

Lua is a case-sensitive language:
@id{and} is a reserved word, but @id{And} and @id{AND}
are two different, valid names.
As a convention,
programs should avoid creating
names that start with an underscore followed by
one or more uppercase letters (such as @Lid{_VERSION}).

The following strings denote other @x{tokens}:
@verbatim{
+ - * / % ^ #
& ~ | << >> //
== ~= <= >= < > =
( ) { } [ ] ::
; : , ...
}

A @def{short literal string}
can be delimited by matching single or double quotes,
and can contain the following C-like escape sequences:
@Char{\a} (bell),
@Char{\b} (backspace),
@Char{\f} (form feed),
@Char{\n} (newline),
@Char{\r} (carriage return),
@Char{\t} (horizontal tab),
@Char{\v} (vertical tab),
@Char{\\} (backslash),
@Char{\"} (quotation mark [double
quote]),
and @Char{\'} (apostrophe [single quote]).
A backslash followed by a line break
results in a newline in the string.
The escape sequence @Char{\z} skips the following span
of white-space characters,
including line breaks;

it is particularly useful to break and indent a long literal string
into multiple lines without adding the newlines and spaces
into the string contents.
A short literal string cannot contain unescaped line breaks
nor escapes not forming a valid escape sequence.

We can specify any byte in a short literal string by its numeric value
(including @x{embedded zeros}).
This can be done
with the escape sequence @T{\x@rep{XX}},
where @rep{XX} is a sequence of exactly two hexadecimal digits,
or with the escape sequence @T{\@rep{ddd}},
where @rep{ddd} is a sequence of up to three decimal digits.
(Note that if a decimal escape sequence is to be followed by a digit,
it must be expressed using exactly three digits.)

The @x{UTF-8} encoding of a @x{Unicode} character
can
be inserted in a literal string with
the escape sequence @T{\u{@rep{XXX}}}
(note the mandatory enclosing brackets),
where @rep{XXX} is a sequence of one or more hexadecimal digits
representing the character code point.

Literal strings can also be defined using a long format
enclosed by @def{long brackets}.
We define an @def{opening long bracket of level @rep{n}} as an opening
square bracket followed by @rep{n} equal signs followed by another
opening square bracket.
So, an opening long bracket of @N{level 0} is written as @T{[[}, @C{]]}
an opening long bracket of @N{level 1} is written as @T{[=[}, @C{]]}
and so on.
A @emph{closing long bracket} is defined similarly;
for instance,
a closing long bracket of @N{level 4} is written as @C{[[} @T{]====]}.
A @def{long literal} starts with an opening long bracket of any level and
ends at the first closing long bracket of the same level.
It can contain any text except a closing bracket of the same level.
Literals in this bracketed form can run
for several lines,
do not interpret any escape sequences,
and ignore long brackets of any other level.
Any kind of end-of-line sequence
(carriage return, newline, carriage return followed by newline,
or newline followed by carriage return)
is converted to a simple newline.

For convenience,

when the opening long bracket is immediately followed by a newline,
the newline is not included in the string.
As an example, in a system using ASCII
(in which @Char{a} is coded @N{as 97},
newline is coded @N{as 10}, and @Char{1} is coded @N{as 49}),
the five literal strings below denote the same string:
@verbatim{
a = 'alo\n123'"
a = "alo\n123\""
a = '\97lo\10\04923'"
a = [[alo
123"]]
a = [==[
alo
123"]==]
}

Any byte in a literal string not
explicitly affected by the previous rules represents itself.
However, Lua opens files for parsing in text mode,
and the system file functions may have problems with
some control characters.
So, it is safer to represent
non-text data as a quoted literal with
explicit
 escape sequences for the non-text characters.

A @def{numeric constant} (or @def{numeral})
can be written with an optional fractional part
and an optional decimal exponent,
marked by a letter @Char{e} or @Char{E}.
Lua also accepts @x{hexadecimal constants},
which start with @T{0x} or @T{0X}.
Hexadecimal constants also accept an optional fractional part
plus an optional binary exponent,
marked by a letter @Char{p} or @Char{P}.
A numeric constant with a radix point or an exponent
denotes a float;
otherwise,
if its value fits in an integer,
it denotes an integer.
Examples of valid integer constants are
@verbatim{
3 345 0xff 0xBEBADA
}
Examples of valid float constants are
@verbatim{
3.0 3.1416 314.16e-2 0.31416E1 34e1

0x0.1E 0xA23p-4 0X1.921FB54442D18P+1
}

A @def{comment} starts with a double hyphen (@T{--})
anywhere outside a string.
If the text immediately after @T{--} is not an opening long bracket,
the comment is a @def{short comment},
which runs until
 the end of the line.
Otherwise, it is a @def{long comment},
which runs until the corresponding closing long bracket.
Long comments are frequently used to disable code temporarily.

}

@sect2{variables| @title{Variables}

Variables are places that store values.
There are three kinds of variables in Lua:
global variables, local variables, and table fields.

A single name can denote a global variable or a local variable
(or a function's formal parameter,
which is a particular kind of local variable):
@Produc{
@producname{var}@producbody{@bnfNter{Name}}
}
@bnfNter{Name} denotes identifiers, as defined in @See{lexical}.

Any variable name is assumed to be global unless explicitly declared
as a local @see{localvar}.
@x{Local variables} are @emph{lexically scoped}:
local variables can be freely accessed by functions
defined inside their scope @see{visibility}.

Before the first assignment to a variable, its value is @nil.

Square brackets are used to index a table:
@Produc{
@producname{var}@producbody{prefixexp
 @bnfter{[} exp @bnfter{]}}
}
The meaning of accesses to table fields can be changed via metatables
@see{metatable}.

The syntax @id{var.Name} is just syntactic sugar for
@T{var["Name"]}:
@Produc{

@producname{var}@producbody{prefixexp @bnfter{.} @bnfNter{Name}}
}

An access to a global variable @id{x}
is equivalent to @id{_ENV.x}.
Due to the way that chunks are compiled,
@id{_ENV} is never a global name @see{globalenv}.

}

@sect2{stats| @title{Statements}

Lua supports an almost conventional set of @x{statements},
similar to those in Pascal or C.
This set includes
assignments, control structures, function calls,
and variable declarations.

@sect3{@title{Blocks}

A @x{block} is a list of statements,
which are executed sequentially:
@Produc{
@producname{block}@producbody{@bnfrep{stat}}
}
Lua has @def{empty statements}
that allow you to separate statements with semicolons,
start a block with a semicolon
or write two semicolons in sequence:
@Produc{
@producname{stat}@producbody{@bnfter{;}}
}

Function
 calls and assignments
can start with an open parenthesis.
This possibility leads to an ambiguity in Lua's grammar.
Consider the following fragment:
@verbatim{
a = b + c
(print or io.write)('done')
}
The grammar could see it in two ways:
@verbatim{
a = b + c(print or io.write)('done')

a = b + c; (print or io.write)('done')
}

The current parser always sees such constructions
in the first way,
interpreting the open parenthesis
as the start of the arguments to a call.
To avoid this ambiguity,
it is a good practice to always precede with a semicolon
statements that start with a parenthesis:
@verbatim{
;(print or io.write)('done')
}

A block can be explicitly delimited to produce a single statement:
@Produc{
@producname{stat}@producbody{@Rw{do} block @Rw{end}}
}
Explicit blocks are useful
to control the scope of variable declarations.
Explicit blocks are also sometimes used to
add a @Rw{return} statement in the middle
of another block @see{control}.

}

@sect3{chunks|
 @title{Chunks}

The unit of compilation of Lua is called a @def{chunk}.
Syntactically,
a chunk is simply a block:
@Produc{
@producname{chunk}@producbody{block}
}

Lua handles a chunk as the body of an anonymous function
with a variable number of arguments
@see{func-def}.
As such, chunks can define local variables,
receive arguments, and return values.
Moreover, such anonymous function is compiled as in the
scope of an external local variable called @id{_ENV} @see{globalenv}.
The resulting function always has @id{_ENV} as its only upvalue,
even if it does not use that variable.

A chunk can be stored in a file or in a string inside the host program.
To execute a chunk,
Lua first @emph{loads} it,
precompiling the chunk's code into instructions for a virtual machine,
and then Lua executes the compiled code

with an interpreter for the virtual machine.

Chunks can also be precompiled into binary form;
see program @idx{luac} and function @Lid{string.dump} for details.
Programs in
 source and compiled forms are interchangeable;
Lua automatically detects the file type and acts accordingly @seeF{load}.

}

@sect3{assignment| @title{Assignment}

Lua allows @x{multiple assignments}.
Therefore, the syntax for assignment
defines a list of variables on the left side
and a list of expressions on the right side.
The elements in both lists are separated by commas:
@Produc{
@producname{stat}@producbody{varlist @bnfter{=} explist}
@producname{varlist}@producbody{var @bnfrep{@bnfter{,} var}}
@producname{explist}@producbody{exp @bnfrep{@bnfter{,} exp}}
}
Expressions are discussed in @See{expressions}.

Before the assignment,
the list of values is @emph{adjusted} to the length of
the list of variables.@index{adjustment}
If there are more values than needed,
the excess values are thrown away.
If there are fewer values than needed,
the list is extended with as many @nil's as needed.
If the list of expressions ends with a function call,
then all values returned by that call enter
 the list of values,
before the adjustment
(except when the call is enclosed in parentheses; see @See{expressions}).

The assignment statement first evaluates all its expressions
and only then the assignments are performed.
Thus the code
@verbatim{
i = 3
i, a[i] = i+1, 20
}
sets @T{a[3]} to 20, without affecting @T{a[4]}
because the @id{i} in @T{a[i]} is evaluated (to 3)
before it is @N{assigned 4}.
Similarly, the line

@verbatim{
x, y = y, x
}
exchanges the values of @id{x} and @id{y},
and
@verbatim{
x, y, z = y, z, x
}
cyclically permutes the values of @id{x}, @id{y}, and @id{z}.

An assignment to a global name @T{x = val}
is equivalent to the assignment
@T{_ENV.x = val} @see{globalenv}.

The meaning of assignments to table fields and
global variables (which are actually table fields, too)
can be changed via metatables @see{metatable}.

}

@sect3{control| @title{Control Structures}
The control structures
@Rw{if}, @Rw{while}, and @Rw{repeat} have the usual meaning and
familiar syntax:
@index{while-do
 statement}
@index{repeat-until statement}
@index{if-then-else statement}
@Produc{
@producname{stat}@producbody{@Rw{while} exp @Rw{do} block @Rw{end}}
@producname{stat}@producbody{@Rw{repeat} block @Rw{until} exp}
@producname{stat}@producbody{@Rw{if} exp @Rw{then} block
 @bnfrep{@Rw{elseif} exp @Rw{then} block}
  @bnfopt{@Rw{else} block} @Rw{end}}
}
Lua also has a @Rw{for} statement, in two flavors @see{for}.

The @x{condition expression} of a
control structure can return any value.
Both @false and @nil are considered false.
All values different from @nil and @false are considered true
(in particular, the number 0 and the empty string are also true).

In the @Rw{repeat}@En@Rw{until} loop,
the inner block does not end at the @Rw{until} keyword,
but only after the condition.
So, the condition can refer to local variables
declared inside the loop block.

The @Rw{goto} statement transfers the program control to a label.
For syntactical reasons,
labels in Lua are considered
statements too:
@index{goto statement}
@index{label}
@Produc{
@producname{stat}@producbody{@Rw{goto} Name}
@producname{stat}@producbody{label}
@producname{label}@producbody{@bnfter{::} Name @bnfter{::}}
}

A label is visible in the entire block where it is defined,
except
inside nested blocks where a label with the same name is defined and
inside nested functions.
A goto may jump to any visible label as long as it does not
enter into the scope of a local variable.

Labels and empty statements are called @def{void statements},
as they perform no actions.

The @Rw{break} statement terminates the execution of a
@Rw{while}, @Rw{repeat}, or @Rw{for} loop,
skipping to the next statement after the loop:
@index{break statement}
@Produc{
@producname{stat}@producbody{@Rw{break}}
}
A @Rw{break} ends the innermost enclosing loop.

The @Rw{return} statement is used to return values
from a function or a chunk
(which is an anonymous function).
@index{return statement}
Functions can return more than
one value,
so the syntax for the @Rw{return} statement is
@Produc{
@producname{stat}@producbody{@Rw{return} @bnfopt{explist} @bnfopt{@bnfter{;}}}
}

The @Rw{return} statement can only be written
as the last statement of a block.
If it is really necessary to @Rw{return} in the middle of a block,
then an explicit inner block can be used,
as in the idiom @T{do return end},

because now @Rw{return} is the last statement in its (inner) block.

}

@sect3{for| @title{For Statement}

@index{for statement}
The @Rw{for} statement has two forms:
one numerical and one generic.

The numerical @Rw{for} loop repeats a block of code while a
control variable runs through an arithmetic progression.
It has the following syntax:
@Produc{
@producname{stat}@producbody{@Rw{for} @bnfNter{Name} @bnfter{=}
 exp @bnfter{,} exp @bnfopt{@bnfter{,} exp} @Rw{do} block @Rw{end}}
}
The @emph{block} is repeated for @emph{name} starting at the value of
the first @emph{exp}, until it passes the second @emph{exp} by steps
 of the
third @emph{exp}.
More precisely, a @Rw{for} statement like
@verbatim{
for v = @rep{e1}, @rep{e2}, @rep{e3} do @rep{block} end
}
is equivalent to the code:
@verbatim{
do
 local @rep{var}, @rep{limit}, @rep{step} = tonumber(@rep{e1}), tonumber(@rep{e2}), tonumber(@rep{e3})
 if not (@rep{var} and @rep{limit} and @rep{step}) then error() end
 @rep{var} = @rep{var} - @rep{step}
 while true do
   @rep{var} = @rep{var} + @rep{step}
   if (@rep{step} >= 0 and @rep{var} > @rep{limit}) or (@rep{step} < 0 and @rep{var} < @rep{limit}) then
     break
   end
   local v = @rep{var}
   @rep{block}
 end
end
}

Note the following:
@itemize{

@item{
All three control expressions are evaluated only once,
before the loop starts.

They must all result in numbers.
}

@item{
@T{@rep{var}}, @T{@rep{limit}}, and @T{@rep{step}} are invisible variables.
The names shown here are for explanatory purposes only.
}

@item{
If the third expression (the step) is absent,
then a step @N{of 1} is used.
}

@item{
You
 can use @Rw{break} and @Rw{goto} to exit a @Rw{for} loop.
}

@item{
The loop variable @T{v} is local to the loop body.
If you need its value after the loop,
assign it to another variable before exiting the loop.
}

}

The generic @Rw{for} statement works over functions,
called @def{iterators}.
On each iteration, the iterator function is called to produce a new value,
stopping when this new value is @nil.
The generic @Rw{for} loop has the following syntax:
@Produc{
@producname{stat}@producbody{@Rw{for} namelist @Rw{in} explist
                @Rw{do} block @Rw{end}}
@producname{namelist}@producbody{@bnfNter{Name} @bnfrep{@bnfter{,} @bnfNter{Name}}}
}
A @Rw{for} statement like
@verbatim{
for @rep{var_1}, @Cdots, @rep{var_n} in @rep{explist} do @rep{block} end
}
is equivalent to the code:
@verbatim{
do
 local @rep{f}, @rep{s}, @rep{var} = @rep{explist}
 while true do
   local @rep{var_1}, @Cdots, @rep{var_n} = @rep{f}(@rep{s}, @rep{var})
   if @rep{var_1} == nil then

```
 break end
   @rep{var} = @rep{var_1}
   @rep{block}
 end
end
}
Note the following:
@itemize{

@item{
@T{@rep{explist}} is evaluated only once.
Its results are an @emph{iterator} function,
a @emph{state},
and an initial value for the first @emph{iterator variable}.
}

@item{
@T{@rep{f}}, @T{@rep{s}}, and @T{@rep{var}} are invisible variables.
The names are here for explanatory purposes only.
}

@item{
You can use @Rw{break} to exit a @Rw{for} loop.
}

@item{
The loop variables @T{@rep{var_i}} are local to the loop;
you cannot use their values after the @Rw{for} ends.
If you need these values,
then assign them to other variables before breaking or exiting the loop.
}

}

}

@sect3{funcstat| @title{Function Calls as Statements}
To allow possible side-effects,
function calls can be executed as statements:
@Produc{
@producname{stat}@producbody{functioncall}
}
In this case, all returned values are thrown away.
Function calls are explained in @See{functioncall}.

}

@sect3{localvar| @title{Local
```

```
 Declarations}
@x{Local variables} can be declared anywhere inside a block.
The declaration can include an initial assignment:
@Produc{
@producname{stat}@producbody{@Rw{local} namelist @bnfopt{@bnfter{=} explist}}
}
If present, an initial assignment has the same semantics
of a multiple assignment @see{assignment}.
Otherwise, all variables are initialized with @nil.

A chunk is also a block @see{chunks},
and so local variables can be declared in a chunk outside any explicit block.

The visibility rules for local variables are explained in @See{visibility}.

}

}

@sect2{expressions| @title{Expressions}

The basic expressions in Lua are the following:
@Produc{
@producname{exp}@producbody{prefixexp}
@producname{exp}@producbody{@Rw{nil} @Or @Rw{false} @Or @Rw{true}}
@producname{exp}@producbody{@bnfNter{Numeral}}
@producname{exp}@producbody{@bnfNter{LiteralString}}
@producname{exp}@producbody{functiondef}
@producname{exp}@producbody{tableconstructor}
@producname{exp}@producbody{@bnfter{...}}
@producname{exp}@producbody{exp
 binop exp}
@producname{exp}@producbody{unop exp}
@producname{prefixexp}@producbody{var @Or functioncall @Or
                        @bnfter{(} exp @bnfter{)}}
}

Numerals and literal strings are explained in @See{lexical};
variables are explained in @See{variables};
function definitions are explained in @See{func-def};
function calls are explained in @See{functioncall};
table constructors are explained in @See{tableconstructor}.
Vararg expressions,
denoted by three dots (@Char{...}), can only be used when
directly inside a vararg function;
they are explained in @See{func-def}.

Binary operators comprise arithmetic operators @see{arith},
```

bitwise operators @see{bitwise},
relational operators @see{rel-ops}, logical operators @see{logic},
and the concatenation operator @see{concat}.
Unary operators comprise the unary minus @see{arith},
the unary bitwise NOT @see{bitwise},
the unary logical @Rw{not} @see{logic},
and the unary @def{length operator}
@see{len-op}.

Both function calls and vararg expressions can result in multiple values.
If a function call is used as a statement @see{funcstat},
then its return list is adjusted to zero elements,
thus discarding all returned values.
If an expression is used as the last (or the only) element
of a list of expressions,
then no adjustment is made
(unless the expression is enclosed in parentheses).
In all other contexts,
Lua adjusts the result list to one element,
either discarding all values except the first one
or adding a single @nil if there are no values.

Here are some examples:
@verbatim{

```
f()              -- adjusted to 0 results
g(f(), x)        -- f() is adjusted to 1 result
g(x, f())        -- g gets x plus all results from f()
a,b,c = f(), x   -- f() is adjusted to 1 result (c gets nil)
a,b = ...        -- a gets the first vararg argument, b gets
                 -- the second (both a and b can get nil if there
                 -- is no corresponding vararg
 argument)

a,b,c = x, f()   -- f() is adjusted to 2 results
a,b,c = f()      -- f() is adjusted to 3 results
return f()       -- returns all results from f()
return ...       -- returns all received vararg arguments
return x,y,f()   -- returns x, y, and all results from f()
{f()}            -- creates a list with all results from f()
{...}            -- creates a list with all vararg arguments
{f(), nil}       -- f() is adjusted to 1 result
}
```

Any expression enclosed in parentheses always results in only one value.
Thus,
@T{(f(x,y,z))} is always a single value,
even if @id{f} returns several values.
(The value of @T{(f(x,y,z))} is the first value returned by @id{f}

or @nil if @id{f} does not return any values.)

@sect3{arith| @title{Arithmetic Operators}
Lua supports the following @x{arithmetic operators}:
@description{
@item{@T{+}|addition}
@item{@T{-}|subtraction}
@item{@T{*}|multiplication}
@item{@T{/}|float division}
@item{@T{//}|floor division}
@item{@T{%}|modulo}
@item{@T{^}|exponentiation}
@item{@T{-}|unary
 minus}
}

With the exception of exponentiation and float division,
the arithmetic operators work as follows:
If both operands are integers,
the operation is performed over integers and the result is an integer.
Otherwise, if both operands are numbers
or strings that can be converted to
numbers @see{coercion},
then they are converted to floats,
the operation is performed following the usual rules
for floating-point arithmetic
(usually the @x{IEEE 754} standard),
and the result is a float.

Exponentiation and float division (@T{/})
always convert their operands to floats
and the result is always a float.
Exponentiation uses the @ANSI{pow},
so that it works for non-integer exponents too.

Floor division (@T{//}) is a division
that rounds the quotient towards minus infinity,
that is, the floor of the division of its operands.

Modulo is defined as the remainder of a division
that rounds the quotient towards minus infinity (floor division).

In
 case of overflows in integer arithmetic,
all operations @emphx{wrap around},
according to the usual rules of two-complement arithmetic.

(In other words,
they return the unique representable integer
that is equal modulo @M{2@sp{64}} to the mathematical result.)
}

@sect3{bitwise| @title{Bitwise Operators}
Lua supports the following @x{bitwise operators}:
@description{
@item{@T{&}|bitwise AND}
@item{@T{@VerBar}|bitwise OR}
@item{@T{~}|bitwise exclusive OR}
@item{@T{>>}|right shift}
@item{@T{<<}|left shift}
@item{@T{~}|unary bitwise NOT}
}

All bitwise operations convert its operands to integers
@see{coercion},
operate on all bits of those integers,
and result in an integer.

Both right and left shifts fill the vacant bits with zeros.
Negative displacements shift to the other direction;
displacements with absolute values equal to or higher than
the number of bits in an integer
result in zero (as all bits are shifted out).

}

@sect3{coercion| @title{Coercions and Conversions}
Lua provides
 some automatic conversions between some
types and representations at run time.
Bitwise operators always convert float operands to integers.
Exponentiation and float division
always convert integer operands to floats.
All other arithmetic operations applied to mixed numbers
(integers and floats) convert the integer operand to a float;
this is called the @def{usual rule}.
The C API also converts both integers to floats and
floats to integers, as needed.
Moreover, string concatenation accepts numbers as arguments,
besides strings.

Lua also converts strings to numbers,
whenever a number is expected.

In a conversion from integer to float,

if the integer value has an exact representation as a float,
that is the result.
Otherwise,
the conversion gets the nearest higher or
the nearest lower representable value.
This kind of conversion never fails.

The conversion from float to integer
checks whether the float has an exact representation as an integer
(that is, the float has an integral
 value and
it is in the range of integer representation).
If it does, that representation is the result.
Otherwise, the conversion fails.

The conversion from strings to numbers goes as follows:
First, the string is converted to an integer or a float,
following its syntax and the rules of the Lua lexer.
(The string may have also leading and trailing spaces and a sign.)
Then, the resulting number (float or integer)
is converted to the type (float or integer) required by the context
(e.g., the operation that forced the conversion).

All conversions from strings to numbers
accept both a dot and the current locale mark
as the radix character.
(The Lua lexer, however, accepts only a dot.)

The conversion from numbers to strings uses a
non-specified human-readable format.
For complete control over how numbers are converted to strings,
use the @id{format} function from the string library
@seeF{string.format}.

}

@sect3{rel-ops| @title{Relational Operators}
Lua supports the following @x{relational
 operators}:
@description{
@item{@T{==}|equality}
@item{@T{~=}|inequality}
@item{@T{<}|less than}
@item{@T{>}|greater than}
@item{@T{<=}|less or equal}
@item{@T{>=}|greater or equal}
}
These operators always result in @false or @true.

Equality (@T{==}) first compares the type of its operands.
If the types are different, then the result is @false.
Otherwise, the values of the operands are compared.
Strings are compared in the obvious way.
Numbers are equal if they denote the same mathematical value.

Tables, userdata, and threads
are compared by reference:
two objects are considered equal only if they are the same object.
Every time you create a new object
(a table, userdata, or thread),
this new object is different from any previously existing object.
A closure is always equal to itself.
Closures with any detectable difference
(different behavior, different definition) are always different.
Closures created at different times but with no detectable differences
may be classified as
 equal or not
(depending on internal caching details).

You can change the way that Lua compares tables and userdata
by using the @Q{eq} metamethod @see{metatable}.

Equality comparisons do not convert strings to numbers
or vice versa.
Thus, @T{"0"==0} evaluates to @false,
and @T{t[0]} and @T{t["0"]} denote different
entries in a table.

The operator @T{~=} is exactly the negation of equality (@T{==}).

The order operators work as follows.
If both arguments are numbers,
then they are compared according to their mathematical values
(regardless of their subtypes).
Otherwise, if both arguments are strings,
then their values are compared according to the current locale.
Otherwise, Lua tries to call the @Q{lt} or the @Q{le}
metamethod @see{metatable}.
A comparison @T{a > b} is translated to @T{b < a}
and @T{a >= b} is translated to @T{b <= a}.

Following the @x{IEEE 754} standard,
@x{NaN} is considered neither smaller than,
nor equal to, nor greater than any value (including itself).

}

@sect3{logic|
 @title{Logical Operators}
The @x{logical operators} in Lua are
@Rw{and}, @Rw{or}, and @Rw{not}.
Like the control structures @see{control},
all logical operators consider both @false and @nil as false
and anything else as true.

The negation operator @Rw{not} always returns @false or @true.
The conjunction operator @Rw{and} returns its first argument
if this value is @false or @nil;
otherwise, @Rw{and} returns its second argument.
The disjunction operator @Rw{or} returns its first argument
if this value is different from @nil and @false;
otherwise, @Rw{or} returns its second argument.
Both @Rw{and} and @Rw{or} use @x{short-circuit evaluation};
that is,
the second operand is evaluated only if necessary.
Here are some examples:
@verbatim{
10 or 20 --> 10
10 or error() --> 10
nil or "a" --> "a"
nil and 10 --> nil
false and error() --> false
false and nil --> false
false or nil --> nil
10 and 20 --> 20
}
(In this manual,
@T{-->}
 indicates the result of the preceding expression.)

}

@sect3{concat| @title{Concatenation}
The string @x{concatenation} operator in Lua is
denoted by two dots (@Char{..}).
If both operands are strings or numbers, then they are converted to
strings according to the rules described in @See{coercion}.
Otherwise, the @idx{__concat} metamethod is called @see{metatable}.

}

@sect3{len-op| @title{The Length Operator}

The length operator is denoted by the unary prefix operator @T{#}.

The length of a string is its number of bytes
(that is, the usual meaning of string length when each
character is one byte).

The length operator applied on a table
returns a @x{border} in that table.
A @def{border} in a table @id{t} is any natural number
that satisfies the following condition:
@verbatim{
(border == 0 or t[border] ~= nil) and t[border + 1] == nil
}
In words,
a border is any (natural) index in a table
where a non-nil value is followed by a nil value
(or zero, when index 1 is nil).

A
table with exactly one border is called a @def{sequence}.
For instance, the table @T{{10, 20, 30, 40, 50}} is a sequence,
as it has only one border (5).
The table @T{{10, 20, 30, nil, 50}} has two borders (3 and 5),
and therefore it is not a sequence.
The table @T{{nil, 20, 30, nil, nil, 60, nil}}
has three borders (0, 3, and 6),
so it is not a sequence, too.
The table @T{{}} is a sequence with border 0.
Note that non-natural keys do not interfere
with whether a table is a sequence.

When @id{t} is a sequence,
@T{#t} returns its only border,
which corresponds to the intuitive notion of the length of the sequence.
When @id{t} is not a sequence,
@T{#t} can return any of its borders.
(The exact one depends on details of
the internal representation of the table,
which in turn can depend on how the table was populated and
the memory addresses of its non-numeric keys.)

The computation of the length of a table
has a guaranteed worst time of @M{O(log n)},
where @M{n} is the largest natural key
in the table.

A program can modify the behavior of the length operator for
any value but strings through the @idx{__len} metamethod @see{metatable}.

}

@sect3{prec| @title{Precedence}
@x{Operator precedence} in Lua follows the table below,
from lower to higher priority:
@verbatim{
or
and
< > <= >= ~= ==
|
~
&
<< >>
..
+ -
* / // %
unary operators (not # - ~)
^
}
As usual,
you can use parentheses to change the precedences of an expression.
The concatenation (@Char{..}) and exponentiation (@Char{^})
operators are right associative.
All other binary operators are left associative.

}

@sect3{tableconstructor| @title{Table Constructors}
Table @x{constructors} are expressions that create tables.
Every time a constructor is evaluated, a new table is created.
A constructor can be used to create an empty table
or to create a table and initialize some of its fields.
The general syntax for constructors is
@Produc{
@producname{tableconstructor}@producbody{@bnfter{@Open}
 @bnfopt{fieldlist} @bnfter{@Close}}
@producname{fieldlist}@producbody{field @bnfrep{fieldsep field} @bnfopt{fieldsep}}
@producname{field}@producbody{@bnfter{[} exp @bnfter{]} @bnfter{=} exp @Or
        @bnfNter{Name} @bnfter{=} exp @Or exp}
@producname{fieldsep}@producbody{@bnfter{,} @Or @bnfter{;}}
}

Each field of the form @T{[exp1] = exp2} adds to the new table an entry
with key @id{exp1} and value @id{exp2}.
A field of the form @T{name = exp} is equivalent to
@T{["name"] = exp}.
Finally, fields of the form @id{exp} are equivalent to
@T{[i] = exp}, where @id{i} are consecutive integers

starting with 1.
Fields in the other formats do not affect this counting.
For example,
@verbatim{
a = { [f(1)] = g; "x", "y"; x = 1, f(x), [30] = 23; 45 }
}
is equivalent to
@verbatim{
do
 local t = {}
 t[f(1)] = g
 t[1] = "x"   -- 1st exp
 t[2] = "y"   -- 2nd exp
 t.x = 1   -- t["x"] = 1
 t[3] = f(x)   -- 3rd exp
 t[30] = 23
 t[4] = 45
        -- 4th exp
 a = t
end
}

The order of the assignments in a constructor is undefined.
(This order would be relevant only when there are repeated keys.)

If the last field in the list has the form @id{exp}
and the expression is a function call or a vararg expression,
then all values returned by this expression enter the list consecutively
@see{functioncall}.

The field list can have an optional trailing separator,
as a convenience for machine-generated code.

}

@sect3{functioncall| @title{Function Calls}
A @x{function call} in Lua has the following syntax:
@Produc{
@producname{functioncall}@producbody{prefixexp args}
}
In a function call,
first @bnfNter{prefixexp} and @bnfNter{args} are evaluated.
If the value of @bnfNter{prefixexp} has type @emph{function},
then this function is called
with the given arguments.
Otherwise, the @bnfNter{prefixexp} @Q{call} metamethod is called,
having as first argument the value of @bnfNter{prefixexp},
followed by the original call arguments

@see{metatable}.

The
form
@Produc{
@producname{functioncall}@producbody{prefixexp @bnfter{:} @bnfNter{Name} args}
}
can be used to call @Q{methods}.
A call @T{v:name(@rep{args})}
is syntactic sugar for @T{v.name(v,@rep{args})},
except that @id{v} is evaluated only once.

Arguments have the following syntax:
@Produc{
@producname{args}@producbody{@bnfter{(} @bnfopt{explist} @bnfter{)}}
@producname{args}@producbody{tableconstructor}
@producname{args}@producbody{@bnfNter{LiteralString}}
}
All argument expressions are evaluated before the call.
A call of the form @T{f{@rep{fields}}} is
syntactic sugar for @T{f({@rep{fields}})};
that is, the argument list is a single new table.
A call of the form @T{f'@rep{string}'}
(or @T{f"@rep{string}"} or @T{f[[@rep{string}]]})
is syntactic sugar for @T{f('@rep{string}')};
that is, the argument list is a single literal string.

A call of the form @T{return @rep{functioncall}} is called
a @def{tail call}.
Lua implements @def{proper tail calls}
(or @emph{proper
tail recursion}):
in a tail call,
the called function reuses the stack entry of the calling function.
Therefore, there is no limit on the number of nested tail calls that
a program can execute.
However, a tail call erases any debug information about the
calling function.
Note that a tail call only happens with a particular syntax,
where the @Rw{return} has one single function call as argument;
this syntax makes the calling function return exactly
the returns of the called function.
So, none of the following examples are tail calls:
@verbatim{
return (f(x)) -- results adjusted to 1
return 2 * f(x)
return x, f(x) -- additional results
f(x); return -- results discarded

```
return x or f(x)     -- results adjusted to 1
}

}

@sect3{func-def| @title{Function Definitions}

The syntax for function definition is
@Produc{
@producname{functiondef}@producbody{@Rw{function} funcbody}
@producname{funcbody}@producbody{@bnfter{(} @bnfopt{parlist} @bnfter{)} block @Rw{end}}
}

The
 following syntactic sugar simplifies function definitions:
@Produc{
@producname{stat}@producbody{@Rw{function} funcname funcbody}
@producname{stat}@producbody{@Rw{local} @Rw{function} @bnfNter{Name} funcbody}
@producname{funcname}@producbody{@bnfNter{Name} @bnfrep{@bnfter{.} @bnfNter{Name}}
@bnfopt{@bnfter{:} @bnfNter{Name}}}
}
The statement
@verbatim{
function f () @rep{body} end
}
translates to
@verbatim{
f = function () @rep{body} end
}
The statement
@verbatim{
function t.a.b.c.f () @rep{body} end
}
translates to
@verbatim{
t.a.b.c.f = function () @rep{body} end
}
The statement
@verbatim{
local function f () @rep{body} end
}
translates to
@verbatim{
local f; f = function () @rep{body} end
}
not to
@verbatim{
local f = function () @rep{body} end
```

}
(This only makes a difference when the body of the function
contains references to @id{f}.)

A function definition is an executable expression,
whose value has type @emph{function}.
When Lua precompiles a chunk,
all its function bodies are
 precompiled too.
Then, whenever Lua executes the function definition,
the function is @emph{instantiated} (or @emph{closed}).
This function instance (or @emphx{closure})
is the final value of the expression.

Parameters act as local variables that are
initialized with the argument values:
@Produc{
@producname{parlist}@producbody{namelist @bnfopt{@bnfter{,} @bnfter{...}} @Or
 @bnfter{...}}
}
When a function is called,
the list of @x{arguments} is adjusted to
the length of the list of parameters,
unless the function is a @def{vararg function},
which is indicated by three dots (@Char{...})
at the end of its parameter list.
A vararg function does not adjust its argument list;
instead, it collects all extra arguments and supplies them
to the function through a @def{vararg expression},
which is also written as three dots.
The value of this expression is a list of all actual extra arguments,
similar to a function with multiple results.
If a vararg expression is used inside another expression
or
 in the middle of a list of expressions,
then its return list is adjusted to one element.
If the expression is used as the last element of a list of expressions,
then no adjustment is made
(unless that last expression is enclosed in parentheses).

As an example, consider the following definitions:
@verbatim{
function f(a, b) end
function g(a, b, ...) end
function r() return 1,2,3 end
}
Then, we have the following mapping from arguments to parameters and

to the vararg expression:
@verbatim{
CALL PARAMETERS

f(3) a=3, b=nil
f(3, 4) a=3, b=4
f(3, 4, 5) a=3, b=4
f(r(), 10) a=1, b=10
f(r()) a=1, b=2

g(3) a=3, b=nil, ... --> (nothing)
g(3, 4) a=3, b=4, ... --> (nothing)
g(3, 4, 5, 8) a=3, b=4, ... --> 5 8
g(5, r()) a=5, b=1, ... --> 2 3
}

Results are returned using the @Rw{return} statement @see{control}.
If control reaches the end of a function
without encountering a @Rw{return} statement,
then
the function returns with no results.

@index{multiple return}
There is a system-dependent limit on the number of values
that a function may return.
This limit is guaranteed to be larger than 1000.

The @emphx{colon} syntax
is used for defining @def{methods},
that is, functions that have an implicit extra parameter @idx{self}.
Thus, the statement
@verbatim{
function t.a.b.c:f (@rep{params}) @rep{body} end
}
is syntactic sugar for
@verbatim{
t.a.b.c.f = function (self, @rep{params}) @rep{body} end
}

}

}

@sect2{visibility| @title{Visibility Rules}

@index{visibility}
Lua is a lexically scoped language.
The scope of a local variable begins at the first statement after

its declaration and lasts until the last non-void statement
of the innermost block that includes the declaration.
Consider the following example:
@verbatim{
```
x = 10                -- global variable
do                    -- new block
 local x = x          -- new 'x', with value 10
 print(x)             --> 10
 x =
 x+1
 do                   -- another block
   local x = x+1      -- another 'x'
   print(x)           --> 12
 end
 print(x)             --> 11
end
print(x)              --> 10  (the global one)
```
}

Notice that, in a declaration like @T{local x = x},
the new @id{x} being declared is not in scope yet,
and so the second @id{x} refers to the outside variable.

Because of the @x{lexical scoping} rules,
local variables can be freely accessed by functions
defined inside their scope.
A local variable used by an inner function is called
an @def{upvalue}, or @emphx{external local variable},
inside the inner function.

Notice that each execution of a @Rw{local} statement
defines new local variables.
Consider the following example:
@verbatim{
```
a = {}
local x = 20
for i=1,10 do
 local y = 0
 a[i] = function () y=y+1; return x+y end
end
```
}
The loop creates ten closures
(that is, ten instances of the anonymous function).
Each of these closures uses a different @id{y} variable,
while all of them share
 the same @id{x}.

}

}

@C{----------}
@sect1{API| @title{The Application Program Interface}

@index{C API}
This section describes the @N{C API} for Lua, that is,
the set of @N{C functions} available to the host program to communicate
with Lua.
All API functions and related types and constants
are declared in the header file @defid{lua.h}.

Even when we use the term @Q{function},
any facility in the API may be provided as a macro instead.
Except where stated otherwise,
all such macros use each of their arguments exactly once
(except for the first argument, which is always a Lua state),
and so do not generate any hidden side-effects.

As in most @N{C libraries},
the Lua API functions do not check their arguments for validity or consistency.
However, you can change this behavior by compiling Lua
with the macro @defid{LUA_USE_APICHECK} defined.

The Lua library is fully reentrant:
it has no global variables.
It keeps all information
 it needs in a dynamic structure,
called the @def{Lua state}.

Each Lua state has one or more threads,
which correspond to independent, cooperative lines of execution.
The type @Lid{lua_State} (despite its name) refers to a thread.
(Indirectly, through the thread, it also refers to the
Lua state associated to the thread.)

A pointer to a thread must be passed as the first argument to
every function in the library, except to @Lid{lua_newstate},
which creates a Lua state from scratch and returns a pointer
to the @emph{main thread} in the new state.

@sect2{@title{The Stack}

Lua uses a @emph{virtual stack} to pass values to and from C.
Each element in this stack represents a Lua value

(@nil, number, string, etc.).
Functions in the API can access this stack through the
Lua state parameter that they receive.

Whenever Lua calls C, the called function gets a new stack,
which is independent of previous stacks and of stacks of
@N{C functions} that are still active.
This stack initially
 contains any arguments to the @N{C function}
and it is where the @N{C function} can store temporary
Lua values and must push its results
to be returned to the caller @seeC{lua_CFunction}.

For convenience,
most query operations in the API do not follow a strict stack discipline.
Instead, they can refer to any element in the stack
by using an @emph{index}:@index{index (API stack)}
A positive index represents an absolute stack position
(starting @N{at 1});
a negative index represents an offset relative to the top of the stack.
More specifically, if the stack has @rep{n} elements,
then @N{index 1} represents the first element
(that is, the element that was pushed onto the stack first)
and
@N{index @rep{n}} represents the last element;
@N{index @num{-1}} also represents the last element
(that is, the element at @N{the top})
and index @M{-n} represents the first element.

}

@sect2{stacksize| @title{Stack Size}

When you interact with the Lua API,
you are responsible for ensuring consistency.
In
 particular,
@emph{you are responsible for controlling stack overflow}.
You can use the function @Lid{lua_checkstack}
to ensure that the stack has enough space for pushing new elements.

Whenever Lua calls C,
it ensures that the stack has space for
at least @defid{LUA_MINSTACK} extra slots.
@id{LUA_MINSTACK} is defined as 20,
so that usually you do not have to worry about stack space
unless your code has loops pushing elements onto the stack.

When you call a Lua function
without a fixed number of results @seeF{lua_call},
Lua ensures that the stack has enough space for all results,
but it does not ensure any extra space.
So, before pushing anything in the stack after such a call
you should use @Lid{lua_checkstack}.

}

@sect2{@title{Valid and Acceptable Indices}

Any function in the API that receives stack indices
works only with @emphx{valid indices} or @emphx{acceptable indices}.

A @def{valid index} is an index that refers to a
position that stores a modifiable Lua value.
It
 comprises stack indices @N{between 1} and the stack top
(@T{1 @leq abs(index) @leq top})
@index{stack index}
plus @def{pseudo-indices},
which represent some positions that are accessible to @N{C code}
but that are not in the stack.
Pseudo-indices are used to access the registry @see{registry}
and the upvalues of a @N{C function} @see{c-closure}.

Functions that do not need a specific mutable position,
but only a value (e.g., query functions),
can be called with acceptable indices.
An @def{acceptable index} can be any valid index,
but it also can be any positive index after the stack top
within the space allocated for the stack,
that is, indices up to the stack size.
(Note that 0 is never an acceptable index.)
Except when noted otherwise,
functions in the API work with acceptable indices.

Acceptable indices serve to avoid extra tests
against the stack top when querying the stack.
For instance, a @N{C function} can query its third argument
without the need to first check whether there
 is a third argument,
that is, without the need to check whether 3 is a valid index.

For functions that can be called with acceptable indices,
any non-valid index is treated as if it
contains a value of a virtual type @defid{LUA_TNONE},
which behaves like a nil value.

}

@sect2{c-closure| @title{C Closures}

When a @N{C function} is created,
it is possible to associate some values with it,
thus creating a @def{@N{C closure}}
@seeC{lua_pushcclosure};
these values are called @def{upvalues} and are
accessible to the function whenever it is called.

Whenever a @N{C function} is called,
its upvalues are located at specific pseudo-indices.
These pseudo-indices are produced by the macro
@Lid{lua_upvalueindex}.
The first upvalue associated with a function is at index
@T{lua_upvalueindex(1)}, and so on.
Any access to @T{lua_upvalueindex(@rep{n})},
where @rep{n} is greater than the number of upvalues of the
current function
(but not greater than 256,
which is one plus the maximum number of upvalues
 in a closure),
produces an acceptable but invalid index.

}

@sect2{registry| @title{Registry}

Lua provides a @def{registry},
a predefined table that can be used by any @N{C code} to
store whatever Lua values it needs to store.
The registry table is always located at pseudo-index
@defid{LUA_REGISTRYINDEX}.
Any @N{C library} can store data into this table,
but it must take care to choose keys
that are different from those used
by other libraries, to avoid collisions.
Typically, you should use as key a string containing your library name,
or a light userdata with the address of a @N{C object} in your code,
or any Lua object created by your code.
As with variable names,
string keys starting with an underscore followed by
uppercase letters are reserved for Lua.

The integer keys in the registry are used
by the reference mechanism @seeC{luaL_ref}

and by some predefined values.
Therefore, integer keys must not be used for other purposes.

When you create a new Lua state,
its registry comes
with some predefined values.
These predefined values are indexed with integer keys
defined as constants in @id{lua.h}.
The following constants are defined:
@description{
@item{@defid{LUA_RIDX_MAINTHREAD}| At this index the registry has
the main thread of the state.
(The main thread is the one created together with the state.)
}

@item{@defid{LUA_RIDX_GLOBALS}| At this index the registry has
the @x{global environment}.
}
}

}

@sect2{C-error|@title{Error Handling in C}

Internally, Lua uses the C @id{longjmp} facility to handle errors.
(Lua will use exceptions if you compile it as C++;
search for @id{LUAI_THROW} in the source code for details.)
When Lua faces any error
(such as a @x{memory allocation error} or a type error)
it @emph{raises} an error;
that is, it does a long jump.
A @emphx{protected environment} uses @id{setjmp}
to set a recovery point;
any error jumps to the most recent active recovery point.

Inside a @N{C function} you can raise an error by calling @Lid{lua_error}.

Most
functions in the API can raise an error,
for instance due to a @x{memory allocation error}.
The documentation for each function indicates whether
it can raise errors.

If an error happens outside any protected environment,
Lua calls a @def{panic function} (see @Lid{lua_atpanic})
and then calls @T{abort},
thus exiting the host application.
Your panic function can avoid this exit by

never returning
(e.g., doing a long jump to your own recovery point outside Lua).

The panic function,
as its name implies,
is a mechanism of last resort.
Programs should avoid it.
As a general rule,
when a @N{C function} is called by Lua with a Lua state,
it can do whatever it wants on that Lua state,
as it should be already protected.
However,
when C code operates on other Lua states
(e.g., a Lua argument to the function,
a Lua state stored in the registry, or
the result of @Lid{lua_newthread}),
it should use them only in API calls that cannot raise errors.

The panic function runs as if it were a
 @x{message handler} @see{error};
in particular, the error object is at the top of the stack.
However, there is no guarantee about stack space.
To push anything on the stack,
the panic function must first check the available space @see{stacksize}.

}

@sect2{continuations|@title{Handling Yields in C}

Internally, Lua uses the C @id{longjmp} facility to yield a coroutine.
Therefore, if a @N{C function} @id{foo} calls an API function
and this API function yields
(directly or indirectly by calling another function that yields),
Lua cannot return to @id{foo} any more,
because the @id{longjmp} removes its frame from the C stack.

To avoid this kind of problem,
Lua raises an error whenever it tries to yield across an API call,
except for three functions:
@Lid{lua_yieldk}, @Lid{lua_callk}, and @Lid{lua_pcallk}.
All those functions receive a @def{continuation function}
(as a parameter named @id{k}) to continue execution after a yield.

We need to set some terminology to explain continuations.
We
 have a @N{C function} called from Lua which we will call
the @emph{original function}.
This original function then calls one of those three functions in the C API,

which we will call the @emph{callee function},
that then yields the current thread.
(This can happen when the callee function is @Lid{lua_yieldk},
or when the callee function is either @Lid{lua_callk} or @Lid{lua_pcallk}
and the function called by them yields.)

Suppose the running thread yields while executing the callee function.
After the thread resumes,
it eventually will finish running the callee function.
However,
the callee function cannot return to the original function,
because its frame in the C stack was destroyed by the yield.
Instead, Lua calls a @def{continuation function},
which was given as an argument to the callee function.
As the name implies,
the continuation function should continue the task
of the original function.

As an illustration, consider the following function:
@verbatim{
```
int original_function
 (lua_State *L) {
 ...     /* code 1 */
 status = lua_pcall(L, n, m, h);  /* calls Lua */
 ...     /* code 2 */
}
```
}
Now we want to allow
the Lua code being run by @Lid{lua_pcall} to yield.
First, we can rewrite our function like here:
@verbatim{
```
int k (lua_State *L, int status, lua_KContext ctx) {
 ...  /* code 2 */
}

int original_function (lua_State *L) {
 ...     /* code 1 */
 return k(L, lua_pcall(L, n, m, h), ctx);
}
```
}
In the above code,
the new function @id{k} is a
@emph{continuation function} (with type @Lid{lua_KFunction}),
which should do all the work that the original function
was doing after calling @Lid{lua_pcall}.
Now, we must inform Lua that it must call @id{k} if the Lua code
being executed by @Lid{lua_pcall} gets interrupted in some way
(errors or yielding),

so we rewrite the code as here,
replacing @Lid{lua_pcall} by @Lid{lua_pcallk}:
@verbatim{
int original_function (lua_State *L) {
 ... /* code 1 */
 return k(L, lua_pcallk(L, n, m, h, ctx2, k), ctx1);
}
}
Note
 the external, explicit call to the continuation:
Lua will call the continuation only if needed, that is,
in case of errors or resuming after a yield.
If the called function returns normally without ever yielding,
@Lid{lua_pcallk} (and @Lid{lua_callk}) will also return normally.
(Of course, instead of calling the continuation in that case,
you can do the equivalent work directly inside the original function.)

Besides the Lua state,
the continuation function has two other parameters:
the final status of the call plus the context value (@id{ctx}) that
was passed originally to @Lid{lua_pcallk}.
(Lua does not use this context value;
it only passes this value from the original function to the
continuation function.)
For @Lid{lua_pcallk},
the status is the same value that would be returned by @Lid{lua_pcallk},
except that it is @Lid{LUA_YIELD} when being executed after a yield
(instead of @Lid{LUA_OK}).
For @Lid{lua_yieldk} and @Lid{lua_callk},
the status is always @Lid{LUA_YIELD} when
 Lua calls the continuation.
(For these two functions,
Lua will not call the continuation in case of errors,
because they do not handle errors.)
Similarly, when using @Lid{lua_callk},
you should call the continuation function
with @Lid{LUA_OK} as the status.
(For @Lid{lua_yieldk}, there is not much point in calling
directly the continuation function,
because @Lid{lua_yieldk} usually does not return.)

Lua treats the continuation function as if it were the original function.
The continuation function receives the same Lua stack
from the original function,
in the same state it would be if the callee function had returned.
(For instance,
after a @Lid{lua_callk} the function and its arguments are
removed from the stack and replaced by the results from the call.)

It also has the same upvalues.
Whatever it returns is handled by Lua as if it were the return
of the original function.

}

@sect2{@title{Functions and Types}

Here we list all functions and types from the @N{C API} in
alphabetical
 order.
Each function has an indicator like this:
@apii{o,p,x}

The first field, @T{o},
is how many elements the function pops from the stack.
The second field, @T{p},
is how many elements the function pushes onto the stack.
(Any function always pushes its results after popping its arguments.)
A field in the form @T{x|y} means the function can push (or pop)
@T{x} or @T{y} elements,
depending on the situation;
an interrogation mark @Char{?} means that
we cannot know how many elements the function pops/pushes
by looking only at its arguments
(e.g., they may depend on what is on the stack).
The third field, @T{x},
tells whether the function may raise errors:
@Char{-} means the function never raises any error;
@Char{m} means the function may raise out-of-memory errors
and errors running a @idx{__gc} metamethod;
@Char{e} means the function may raise any errors
(it can run arbitrary Lua code,
either directly or through metamethods);
@Char{v} means the function may raise an error on purpose.

@APIEntry{int
 lua_absindex (lua_State *L, int idx);|
@apii{0,0,-}

Converts the @x{acceptable index} @id{idx}
into an equivalent @x{absolute index}
(that is, one that does not depend on the stack top).

}

```
@APIEntry{
typedef void * (*lua_Alloc) (void *ud,
                             void *ptr,
                             size_t osize,
                             size_t nsize);|
```

The type of the @x{memory-allocation function} used by Lua states.
The allocator function must provide a
functionality similar to @id{realloc},
but not exactly the same.
Its arguments are
@id{ud}, an opaque pointer passed to @Lid{lua_newstate};
@id{ptr}, a pointer to the block being allocated/reallocated/freed;
@id{osize}, the original size of the block or some code about what
is being allocated;
and @id{nsize}, the new size of the block.

When @id{ptr} is not @id{NULL},
@id{osize} is the size of the block pointed by @id{ptr},
that is, the size given when it was allocated or reallocated.

When @id{ptr} is
 @id{NULL},
@id{osize} encodes the kind of object that Lua is allocating.
@id{osize} is any of
@Lid{LUA_TSTRING}, @Lid{LUA_TTABLE}, @Lid{LUA_TFUNCTION},
@Lid{LUA_TUSERDATA}, or @Lid{LUA_TTHREAD} when (and only when)
Lua is creating a new object of that type.
When @id{osize} is some other value,
Lua is allocating memory for something else.

Lua assumes the following behavior from the allocator function:

When @id{nsize} is zero,
the allocator must behave like @id{free}
and return @id{NULL}.

When @id{nsize} is not zero,
the allocator must behave like @id{realloc}.
The allocator returns @id{NULL}
if and only if it cannot fulfill the request.
Lua assumes that the allocator never fails when
@T{osize >= nsize}.

Here is a simple implementation for the @x{allocator function}.
It is used in the auxiliary library by @Lid{luaL_newstate}.
@verbatim{
static void *l_alloc (void *ud, void *ptr, size_t osize,

```
                                  size_t nsize) {
 (void)ud;  (void)osize;  /* not
 used */
 if (nsize == 0) {
   free(ptr);
   return NULL;
 }
 else
   return realloc(ptr, nsize);
}
}
```

Note that @N{Standard C} ensures
that @T{free(NULL)} has no effect and that
@T{realloc(NULL,size)} is equivalent to @T{malloc(size)}.
This code assumes that @id{realloc} does not fail when shrinking a block.
(Although @N{Standard C} does not ensure this behavior,
it seems to be a safe assumption.)

}

@APIEntry{void lua_arith (lua_State *L, int op);|
@apii{2|1,1,e}

Performs an arithmetic or bitwise operation over the two values
(or one, in the case of negations)
at the top of the stack,
with the value at the top being the second operand,
pops these values, and pushes the result of the operation.
The function follows the semantics of the corresponding Lua operator
(that is, it may call metamethods).

The value of @id{op} must be one of the following constants:
@description{

@item{@defid{LUA_OPADD}| performs addition (@T{+})}
@item{@defid{LUA_OPSUB}| performs subtraction (@T{-})}
@item{@defid{LUA_OPMUL}|
 performs multiplication (@T{*})}
@item{@defid{LUA_OPDIV}| performs float division (@T{/})}
@item{@defid{LUA_OPIDIV}| performs floor division (@T{//})}
@item{@defid{LUA_OPMOD}| performs modulo (@T{%})}
@item{@defid{LUA_OPPOW}| performs exponentiation (@T{^})}
@item{@defid{LUA_OPUNM}| performs mathematical negation (unary @T{-})}
@item{@defid{LUA_OPBNOT}| performs bitwise NOT (@T{~})}
@item{@defid{LUA_OPBAND}| performs bitwise AND (@T{&})}
@item{@defid{LUA_OPBOR}| performs bitwise OR (@T{|})}
@item{@defid{LUA_OPBXOR}| performs bitwise exclusive OR (@T{~})}
@item{@defid{LUA_OPSHL}| performs left shift (@T{<<})}

@item{@defid{LUA_OPSHR}| performs right shift (@T{>>})}

}

}

@APIEntry{lua_CFunction lua_atpanic (lua_State *L, lua_CFunction panicf);|
@apii{0,0,-}

Sets a new panic function and returns the old one @see{C-error}.

}

@APIEntry{void lua_call (lua_State *L, int nargs, int nresults);|
@apii{nargs+1,nresults,e}

Calls a function.

To call a function you
 must use the following protocol:
first, the function to be called is pushed onto the stack;
then, the arguments to the function are pushed
in direct order;
that is, the first argument is pushed first.
Finally you call @Lid{lua_call};
@id{nargs} is the number of arguments that you pushed onto the stack.
All arguments and the function value are popped from the stack
when the function is called.
The function results are pushed onto the stack when the function returns.
The number of results is adjusted to @id{nresults},
unless @id{nresults} is @defid{LUA_MULTRET}.
In this case, all results from the function are pushed;
Lua takes care that the returned values fit into the stack space,
but it does not ensure any extra space in the stack.
The function results are pushed onto the stack in direct order
(the first result is pushed first),
so that after the call the last result is on the top of the stack.

Any error inside the called function is propagated upwards
(with a @id{longjmp}).

The following
 example shows how the host program can do the
equivalent to this Lua code:
@verbatim{
a = f("how", t.x, 14)
}

Here it is @N{in C}:
@verbatim{
```
lua_getglobal(L, "f");                /* function to be called */
lua_pushliteral(L, "how");                    /* 1st argument */
lua_getglobal(L, "t");                /* table to be indexed */
lua_getfield(L, -1, "x");       /* push result of t.x (2nd arg) */
lua_remove(L, -2);                /* remove 't' from the stack */
lua_pushinteger(L, 14);                       /* 3rd argument */
lua_call(L, 3, 1);     /* call 'f' with 3 arguments and 1 result */
lua_setglobal(L, "a");                        /* set global 'a' */
```
}
Note that the code above is @emph{balanced}:
at its end, the stack is back to its original configuration.
This is considered good programming practice.

}

@APIEntry{
```
void lua_callk (lua_State *L,
            int nargs,
            int nresults,
            lua_KContext ctx,
            lua_KFunction
 k);|
```
@apii{nargs + 1,nresults,e}

This function behaves exactly like @Lid{lua_call},
but allows the called function to yield @see{continuations}.

}

@APIEntry{typedef int (*lua_CFunction) (lua_State *L);|

Type for @N{C functions}.

In order to communicate properly with Lua,
a @N{C function} must use the following protocol,
which defines the way parameters and results are passed:
a @N{C function} receives its arguments from Lua in its stack
in direct order (the first argument is pushed first).
So, when the function starts,
@T{lua_gettop(L)} returns the number of arguments received by the function.
The first argument (if any) is at index 1
and its last argument is at index @T{lua_gettop(L)}.
To return values to Lua, a @N{C function} just pushes them onto the stack,
in direct order (the first result is pushed first),
and returns the number of results.
Any other value in the stack below the results will be properly

discarded by Lua.
Like a Lua function, a @N{C function} called
 by Lua can also return
many results.

As an example, the following function receives a variable number
of numeric arguments and returns their average and their sum:
@verbatim{
```
static int foo (lua_State *L) {
 int n = lua_gettop(L);    /* number of arguments */
 lua_Number sum = 0.0;
 int i;
 for (i = 1; i <= n; i++) {
   if (!lua_isnumber(L, i)) {
     lua_pushliteral(L, "incorrect argument");
     lua_error(L);
   }
   sum += lua_tonumber(L, i);
 }
 lua_pushnumber(L, sum/n);        /* first result */
 lua_pushnumber(L, sum);         /* second result */
 return 2;                   /* number of results */
}
```
}

}

@APIEntry{int lua_checkstack (lua_State *L, int n);|
@apii{0,0,-}

Ensures that the stack has space for at least @id{n} extra slots
(that is, that you can safely push up to @id{n} values into it).
It returns false if it cannot fulfill the request,
either because it would cause the stack
to be larger than a fixed maximum size
(typically at least several thousand
 elements) or
because it cannot allocate memory for the extra space.
This function never shrinks the stack;
if the stack already has space for the extra slots,
it is left unchanged.

}

@APIEntry{void lua_close (lua_State *L);|

@apii{0,0,-}

Destroys all objects in the given Lua state
(calling the corresponding garbage-collection metamethods, if any)
and frees all dynamic memory used by this state.
In several platforms, you may not need to call this function,
because all resources are naturally released when the host program ends.
On the other hand, long-running programs that create multiple states,
such as daemons or web servers,
will probably need to close states as soon as they are not needed.

}

@APIEntry{int lua_compare (lua_State *L, int index1, int index2, int op);|
@apii{0,0,e}

Compares two Lua values.
Returns 1 if the value at index @id{index1} satisfies @id{op}
when compared with the value at index @id{index2},
following the semantics of the corresponding Lua operator
(that
 is, it may call metamethods).
Otherwise @N{returns 0}.
Also @N{returns 0} if any of the indices is not valid.

The value of @id{op} must be one of the following constants:
@description{

@item{@defid{LUA_OPEQ}| compares for equality (@T{==})}
@item{@defid{LUA_OPLT}| compares for less than (@T{<})}
@item{@defid{LUA_OPLE}| compares for less or equal (@T{<=})}

}

}

@APIEntry{void lua_concat (lua_State *L, int n);|
@apii{n,1,e}

Concatenates the @id{n} values at the top of the stack,
pops them, and leaves the result at the top.
If @N{@T{n} is 1}, the result is the single value on the stack
(that is, the function does nothing);
if @id{n} is 0, the result is the empty string.
Concatenation is performed following the usual semantics of Lua
@see{concat}.

}

@APIEntry{void lua_copy (lua_State *L, int fromidx, int toidx);|
@apii{0,0,-}

Copies the element at index @id{fromidx}
into the valid index @id{toidx},
replacing the value at that position.
Values at other positions are not affected.

}

@APIEntry{void
 lua_createtable (lua_State *L, int narr, int nrec);|
@apii{0,1,m}

Creates a new empty table and pushes it onto the stack.
Parameter @id{narr} is a hint for how many elements the table
will have as a sequence;
parameter @id{nrec} is a hint for how many other elements
the table will have.
Lua may use these hints to preallocate memory for the new table.
This preallocation is useful for performance when you know in advance
how many elements the table will have.
Otherwise you can use the function @Lid{lua_newtable}.

}

@APIEntry{int lua_dump (lua_State *L,
                lua_Writer writer,
                void *data,
                int strip);|
@apii{0,0,-}

Dumps a function as a binary chunk.
Receives a Lua function on the top of the stack
and produces a binary chunk that,
if loaded again,
results in a function equivalent to the one dumped.
As it produces parts of the chunk,
@Lid{lua_dump} calls function @id{writer} @seeC{lua_Writer}
with the
 given @id{data}
to write them.

If @id{strip} is true,
the binary representation may not include all debug information
about the function,
to save space.

The value returned is the error code returned by the last
call to the writer;
@N{0 means} no errors.

This function does not pop the Lua function from the stack.

}

@APIEntry{int lua_error (lua_State *L);|
@apii{1,0,v}

Generates a Lua error,
using the value at the top of the stack as the error object.
This function does a long jump,
and therefore never returns
@seeC{luaL_error}.

}

@APIEntry{int lua_gc (lua_State *L, int what, int data);|
@apii{0,0,m}

Controls the garbage collector.

This function performs several tasks,
according to the value of the parameter @id{what}:
@description{

@item{@id{LUA_GCSTOP}|
stops the garbage collector.
}

@item{@id{LUA_GCRESTART}|
restarts the garbage collector.
}

@item{@id{LUA_GCCOLLECT}|
performs a full garbage-collection cycle.
}

@item{@id{LUA_GCCOUNT}|
returns the current amount of memory
 (in Kbytes) in use by Lua.
}

@item{@id{LUA_GCCOUNTB}|
returns the remainder of dividing the current amount of bytes of

memory in use by Lua by 1024.
}

@item{@id{LUA_GCSTEP}|
performs an incremental step of garbage collection.
}

@item{@id{LUA_GCSETPAUSE}|
sets @id{data} as the new value
for the @emph{pause} of the collector @see{GC}
and returns the previous value of the pause.
}

@item{@id{LUA_GCSETSTEPMUL}|
sets @id{data} as the new value for the @emph{step multiplier} of
the collector @see{GC}
and returns the previous value of the step multiplier.
}

@item{@id{LUA_GCISRUNNING}|
returns a boolean that tells whether the collector is running
(i.e., not stopped).
}

}

For more details about these options,
see @Lid{collectgarbage}.

}

@APIEntry{lua_Alloc lua_getallocf (lua_State *L, void **ud);|
@apii{0,0,-}

Returns the @x{memory-allocation function} of a given state.
If @id{ud} is not @id{NULL}, Lua stores in @T{*ud} the
opaque pointer given when the memory-allocator function was set.

}

@APIEntry{int
 lua_getfield (lua_State *L, int index, const char *k);|
@apii{0,1,e}

Pushes onto the stack the value @T{t[k]},
where @id{t} is the value at the given index.
As in Lua, this function may trigger a metamethod
for the @Q{index} event @see{metatable}.

Returns the type of the pushed value.

}

@APIEntry{void *lua_getextraspace (lua_State *L);|
@apii{0,0,-}

Returns a pointer to a raw memory area associated with the
given Lua state.
The application can use this area for any purpose;
Lua does not use it for anything.

Each new thread has this area initialized with a copy
of the area of the @x{main thread}.

By default, this area has the size of a pointer to void,
but you can recompile Lua with a different size for this area.
(See @id{LUA_EXTRASPACE} in @id{luaconf.h}.)

}

@APIEntry{int lua_getglobal (lua_State *L, const char *name);|
@apii{0,1,e}

Pushes onto the stack the value of the global @id{name}.
Returns the type of that value.

}

@APIEntry{int lua_geti (lua_State
 *L, int index, lua_Integer i);|
@apii{0,1,e}

Pushes onto the stack the value @T{t[i]},
where @id{t} is the value at the given index.
As in Lua, this function may trigger a metamethod
for the @Q{index} event @see{metatable}.

Returns the type of the pushed value.

}

@APIEntry{int lua_getmetatable (lua_State *L, int index);|
@apii{0,0|1,-}

If the value at the given index has a metatable,
the function pushes that metatable onto the stack and @N{returns 1}.

Otherwise,
the function @N{returns 0} and pushes nothing on the stack.

}

@APIEntry{int lua_gettable (lua_State *L, int index);|
@apii{1,1,e}

Pushes onto the stack the value @T{t[k]},
where @id{t} is the value at the given index
and @id{k} is the value at the top of the stack.

This function pops the key from the stack,
pushing the resulting value in its place.
As in Lua, this function may trigger a metamethod
for the @Q{index} event @see{metatable}.

Returns the type of the pushed value.

}

@APIEntry{int lua_gettop (lua_State
 *L);|
@apii{0,0,-}

Returns the index of the top element in the stack.
Because indices start @N{at 1},
this result is equal to the number of elements in the stack;
in particular, @N{0 means} an empty stack.

}

@APIEntry{int lua_getuservalue (lua_State *L, int index);|
@apii{0,1,-}

Pushes onto the stack the Lua value associated with the full userdata
at the given index.

Returns the type of the pushed value.

}

@APIEntry{void lua_insert (lua_State *L, int index);|
@apii{1,1,-}

Moves the top element into the given valid index,
shifting up the elements above this index to open space.
This function cannot be called with a pseudo-index,

because a pseudo-index is not an actual stack position.

}

@APIEntry{typedef @ldots lua_Integer;|

The type of integers in Lua.

By default this type is @id{long long},
(usually a 64-bit two-complement integer),
but that can be changed to @id{long} or @id{int}
(usually a 32-bit two-complement integer).
(See @id{LUA_INT_TYPE} in @id{luaconf.h}.)

Lua also
 defines the constants
@defid{LUA_MININTEGER} and @defid{LUA_MAXINTEGER},
with the minimum and the maximum values that fit in this type.

}

@APIEntry{int lua_isboolean (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is a boolean,
and @N{0 otherwise}.

}

@APIEntry{int lua_iscfunction (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is a @N{C function},
and @N{0 otherwise}.

}

@APIEntry{int lua_isfunction (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is a function
(either C or Lua), and @N{0 otherwise}.

}

@APIEntry{int lua_isinteger (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is an integer
(that is, the value is a number and is represented as an integer),
and @N{0 otherwise}.

}

@APIEntry{int lua_islightuserdata (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is a light userdata,
and @N{0 otherwise}.

}

@APIEntry{int
 lua_isnil (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is @nil,
and @N{0 otherwise}.

}

@APIEntry{int lua_isnone (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the given index is not valid,
and @N{0 otherwise}.

}

@APIEntry{int lua_isnoneornil (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the given index is not valid
or if the value at this index is @nil,
and @N{0 otherwise}.

}

@APIEntry{int lua_isnumber (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is a number
or a string convertible to a number,
and @N{0 otherwise}.

}

@APIEntry{int lua_isstring (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is a string
or a number (which is always convertible to a string),
and @N{0 otherwise}.

}

@APIEntry{int lua_istable (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is a table,
and @N{0 otherwise}.

}

@APIEntry{int
 lua_isthread (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is a thread,
and @N{0 otherwise}.

}

@APIEntry{int lua_isuserdata (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is a userdata
(either full or light), and @N{0 otherwise}.

}

@APIEntry{int lua_isyieldable (lua_State *L);|
@apii{0,0,-}

Returns 1 if the given coroutine can yield,
and @N{0 otherwise}.

}

@APIEntry{typedef @ldots lua_KContext;|

The type for continuation-function contexts.
It must be a numeric type.
This type is defined as @id{intptr_t}

when @id{intptr_t} is available,
so that it can store pointers too.
Otherwise, it is defined as @id{ptrdiff_t}.

}

@APIEntry{
typedef int (*lua_KFunction) (lua_State *L, int status, lua_KContext ctx);|

Type for continuation functions @see{continuations}.

}

@APIEntry{void lua_len (lua_State *L, int index);|
@apii{0,1,e}

Returns the length of the value at the given index.
It is equivalent to
 the @Char{#} operator in Lua @see{len-op} and
may trigger a metamethod for the @Q{length} event @see{metatable}.
The result is pushed on the stack.

}

@APIEntry{
int lua_load (lua_State *L,
	lua_Reader reader,
	void *data,
	const char *chunkname,
	const char *mode);|
@apii{0,1,-}

Loads a Lua chunk without running it.
If there are no errors,
@id{lua_load} pushes the compiled chunk as a Lua
function on top of the stack.
Otherwise, it pushes an error message.

The return values of @id{lua_load} are:
@description{

@item{@Lid{LUA_OK}| no errors;}

@item{@defid{LUA_ERRSYNTAX}|
syntax error during precompilation;}

@item{@Lid{LUA_ERRMEM}|
@x{memory allocation (out-of-memory) error};}

@item{@Lid{LUA_ERRGCMM}|
error while running a @idx{__gc} metamethod.
(This error has no relation with the chunk being loaded.
It is generated by the garbage collector.)
}

}

The @id{lua_load} function uses a user-supplied @id{reader} function
to read the
chunk @seeC{lua_Reader}.
The @id{data} argument is an opaque value passed to the reader function.

The @id{chunkname} argument gives a name to the chunk,
which is used for error messages and in debug information @see{debugI}.

@id{lua_load} automatically detects whether the chunk is text or binary
and loads it accordingly (see program @idx{luac}).
The string @id{mode} works as in function @Lid{load},
with the addition that
a @id{NULL} value is equivalent to the string @St{bt}.

@id{lua_load} uses the stack internally,
so the reader function must always leave the stack
unmodified when returning.

If the resulting function has upvalues,
its first upvalue is set to the value of the @x{global environment}
stored at index @id{LUA_RIDX_GLOBALS} in the registry @see{registry}.
When loading main chunks,
this upvalue will be the @id{_ENV} variable @see{globalenv}.
Other upvalues are initialized with @nil.

}

@APIEntry{lua_State *lua_newstate (lua_Alloc f, void *ud);|
@apii{0,0,-}

Creates a new
thread running in a new, independent state.
Returns @id{NULL} if it cannot create the thread or the state
(due to lack of memory).
The argument @id{f} is the @x{allocator function};
Lua does all memory allocation for this state
through this function @seeF{lua_Alloc}.
The second argument, @id{ud}, is an opaque pointer that Lua
passes to the allocator in every call.

}

@APIEntry{void lua_newtable (lua_State *L);|
@apii{0,1,m}

Creates a new empty table and pushes it onto the stack.
It is equivalent to @T{lua_createtable(L, 0, 0)}.

}

@APIEntry{lua_State *lua_newthread (lua_State *L);|
@apii{0,1,m}

Creates a new thread, pushes it on the stack,
and returns a pointer to a @Lid{lua_State} that represents this new thread.
The new thread returned by this function shares with the original thread
its global environment,
but has an independent execution stack.

There is no explicit function to close or to destroy a thread.
Threads are subject to garbage collection,
like any Lua object.

}

@APIEntry{void
 *lua_newuserdata (lua_State *L, size_t size);|
@apii{0,1,m}

This function allocates a new block of memory with the given size,
pushes onto the stack a new full userdata with the block address,
and returns this address.
The host program can freely use this memory.

}

@APIEntry{int lua_next (lua_State *L, int index);|
@apii{1,2|0,e}

Pops a key from the stack,
and pushes a key@En{}value pair from the table at the given index
(the @Q{next} pair after the given key).
If there are no more elements in the table,
then @Lid{lua_next} returns 0 (and pushes nothing).

A typical traversal looks like this:
@verbatim{

```
/* table is in the stack at index 't' */
lua_pushnil(L);  /* first key */
while (lua_next(L, t) != 0) {
 /* uses 'key' (at index -2) and 'value' (at index -1) */
 printf("%s - %s\n",
        lua_typename(L, lua_type(L, -2)),
        lua_typename(L, lua_type(L, -1)));
 /* removes 'value'; keeps 'key' for next iteration */
 lua_pop(L, 1);
}
}
```

While traversing a table,
do
 not call @Lid{lua_tolstring} directly on a key,
unless you know that the key is actually a string.
Recall that @Lid{lua_tolstring} may change
the value at the given index;
this confuses the next call to @Lid{lua_next}.

See function @Lid{next} for the caveats of modifying
the table during its traversal.

}

@APIEntry{typedef @ldots lua_Number;|

The type of floats in Lua.

By default this type is double,
but that can be changed to a single float or a long double.
(See @id{LUA_FLOAT_TYPE} in @id{luaconf.h}.)

}

@APIEntry{int lua_numbertointeger (lua_Number n, lua_Integer *p);|

Converts a Lua float to a Lua integer.
This macro assumes that @id{n} has an integral value.
If that value is within the range of Lua integers,
it is converted to an integer and assigned to @T{*p}.
The macro results in a boolean indicating whether the
conversion was successful.
(Note that this range test can be tricky to do
correctly without this macro,
due to roundings.)

This macro may evaluate its arguments

more than once.

}

@APIEntry{int lua_pcall (lua_State *L, int nargs, int nresults, int msgh);|
@apii{nargs + 1,nresults|1,-}

Calls a function in protected mode.

Both @id{nargs} and @id{nresults} have the same meaning as
in @Lid{lua_call}.
If there are no errors during the call,
@Lid{lua_pcall} behaves exactly like @Lid{lua_call}.
However, if there is any error,
@Lid{lua_pcall} catches it,
pushes a single value on the stack (the error object),
and returns an error code.
Like @Lid{lua_call},
@Lid{lua_pcall} always removes the function
and its arguments from the stack.

If @id{msgh} is 0,
then the error object returned on the stack
is exactly the original error object.
Otherwise, @id{msgh} is the stack index of a
@emph{message handler}.
(This index cannot be a pseudo-index.)
In case of runtime errors,
this function will be called with the error object
and its return value will be the object
returned on the stack by @Lid{lua_pcall}.

Typically, the message handler is used to add
more debug
information to the error object, such as a stack traceback.
Such information cannot be gathered after the return of @Lid{lua_pcall},
since by then the stack has unwound.

The @Lid{lua_pcall} function returns one of the following constants
(defined in @id{lua.h}):
@description{

@item{@defid{LUA_OK} (0)|
success.}

@item{@defid{LUA_ERRRUN}|
a runtime error.
}

```
@item{@defid{LUA_ERRMEM}|
@x{memory allocation error}.
For such errors, Lua does not call the @x{message handler}.
}

@item{@defid{LUA_ERRERR}|
error while running the @x{message handler}.
}

@item{@defid{LUA_ERRGCMM}|
error while running a @idx{__gc} metamethod.
For such errors, Lua does not call the @x{message handler}
(as this kind of error typically has no relation
with the function being called).
}

}

}

@APIEntry{
int lua_pcallk (lua_State *L,
            int nargs,
            int nresults,
            int msgh,
            lua_KContext ctx,
            lua_KFunction k);|
@apii{nargs + 1,nresults|1,-}

This
 function behaves exactly like @Lid{lua_pcall},
but allows the called function to yield @see{continuations}.

}

@APIEntry{void lua_pop (lua_State *L, int n);|
@apii{n,0,-}

Pops @id{n} elements from the stack.

}

@APIEntry{void lua_pushboolean (lua_State *L, int b);|
@apii{0,1,-}

Pushes a boolean value with value @id{b} onto the stack.
```

}

@APIEntry{void lua_pushcclosure (lua_State *L, lua_CFunction fn, int n);|
@apii{n,1,m}

Pushes a new @N{C closure} onto the stack.

When a @N{C function} is created,
it is possible to associate some values with it,
thus creating a @x{@N{C closure}} @see{c-closure};
these values are then accessible to the function whenever it is called.
To associate values with a @N{C function},
first these values must be pushed onto the stack
(when there are multiple values, the first value is pushed first).
Then @Lid{lua_pushcclosure}
is called to create and push the @N{C function} onto the stack,
with the argument @id{n} telling how many values will
be
associated with the function.
@Lid{lua_pushcclosure} also pops these values from the stack.

The maximum value for @id{n} is 255.

When @id{n} is zero,
this function creates a @def{light @N{C function}},
which is just a pointer to the @N{C function}.
In that case, it never raises a memory error.

}

@APIEntry{void lua_pushcfunction (lua_State *L, lua_CFunction f);|
@apii{0,1,-}

Pushes a @N{C function} onto the stack.
This function receives a pointer to a @N{C function}
and pushes onto the stack a Lua value of type @id{function} that,
when called, invokes the corresponding @N{C function}.

Any function to be callable by Lua must
follow the correct protocol to receive its parameters
and return its results @seeC{lua_CFunction}.

}

@APIEntry{const char *lua_pushfstring (lua_State *L, const char *fmt, ...);|
@apii{0,1,e}

Pushes onto the stack a formatted string

and returns a pointer to this string.
It is similar to the @ANSI{sprintf},
but has some important differences:
@itemize{

@item{
You
 do not have to allocate space for the result:
the result is a Lua string and Lua takes care of memory allocation
(and deallocation, through garbage collection).
}

@item{
The conversion specifiers are quite restricted.
There are no flags, widths, or precisions.
The conversion specifiers can only be
@Char{%%} (inserts the character @Char{%}),
@Char{%s} (inserts a zero-terminated string, with no size restrictions),
@Char{%f} (inserts a @Lid{lua_Number}),
@Char{%I} (inserts a @Lid{lua_Integer}),
@Char{%p} (inserts a pointer as a hexadecimal numeral),
@Char{%d} (inserts an @T{int}),
@Char{%c} (inserts an @T{int} as a one-byte character), and
@Char{%U} (inserts a @T{long int} as a @x{UTF-8} byte sequence).
}

}

Unlike other push functions,
this function checks for the stack space it needs,
including the slot for its result.

}

@APIEntry{void lua_pushglobaltable (lua_State *L);|
@apii{0,1,-}

Pushes the @x{global environment} onto the stack.

}

@APIEntry{void lua_pushinteger (lua_State
 *L, lua_Integer n);|
@apii{0,1,-}

Pushes an integer with value @id{n} onto the stack.

}

@APIEntry{void lua_pushlightuserdata (lua_State *L, void *p);|
@apii{0,1,-}

Pushes a light userdata onto the stack.

Userdata represent @N{C values} in Lua.
A @def{light userdata} represents a pointer, a @T{void*}.
It is a value (like a number):
you do not create it, it has no individual metatable,
and it is not collected (as it was never created).
A light userdata is equal to @Q{any}
light userdata with the same @N{C address}.

}

@APIEntry{const char *lua_pushliteral (lua_State *L, const char *s);|
@apii{0,1,m}

This macro is equivalent to @Lid{lua_pushstring},
but should be used only when @id{s} is a literal string.

}

@APIEntry{const char *lua_pushlstring (lua_State *L, const char *s, size_t len);|
@apii{0,1,m}

Pushes the string pointed to by @id{s} with size @id{len}
onto the stack.
Lua makes (or reuses) an internal copy of the given string,
so the memory at @id{s} can be freed
 or reused immediately after
the function returns.
The string can contain any binary data,
including @x{embedded zeros}.

Returns a pointer to the internal copy of the string.

}

@APIEntry{void lua_pushnil (lua_State *L);|
@apii{0,1,-}

Pushes a nil value onto the stack.

}

@APIEntry{void lua_pushnumber (lua_State *L, lua_Number n);|

@apii{0,1,-}

Pushes a float with value @id{n} onto the stack.

}

@APIEntry{const char *lua_pushstring (lua_State *L, const char *s);|
@apii{0,1,m}

Pushes the zero-terminated string pointed to by @id{s}
onto the stack.
Lua makes (or reuses) an internal copy of the given string,
so the memory at @id{s} can be freed or reused immediately after
the function returns.

Returns a pointer to the internal copy of the string.

If @id{s} is @id{NULL}, pushes @nil and returns @id{NULL}.

}

@APIEntry{int lua_pushthread (lua_State *L);|
@apii{0,1,-}

Pushes the thread represented by @id{L} onto the stack.
Returns 1 if this thread is the @x{main thread} of its state.

}

@APIEntry{void
 lua_pushvalue (lua_State *L, int index);|
@apii{0,1,-}

Pushes a copy of the element at the given index
onto the stack.

}

@APIEntry{
const char *lua_pushvfstring (lua_State *L,
                const char *fmt,
                va_list argp);|
@apii{0,1,m}

Equivalent to @Lid{lua_pushfstring}, except that it receives a @id{va_list}
instead of a variable number of arguments.

}

@APIEntry{int lua_rawequal (lua_State *L, int index1, int index2);|
@apii{0,0,-}

Returns 1 if the two values in indices @id{index1} and
@id{index2} are primitively equal
(that is, without calling the @idx{__eq} metamethod).
Otherwise @N{returns 0}.
Also @N{returns 0} if any of the indices are not valid.

}

@APIEntry{int lua_rawget (lua_State *L, int index);|
@apii{1,1,-}

Similar to @Lid{lua_gettable}, but does a raw access
(i.e., without metamethods).

}

@APIEntry{int lua_rawgeti (lua_State *L, int index, lua_Integer n);|
@apii{0,1,-}

Pushes onto the stack the
 value @T{t[n]},
where @id{t} is the table at the given index.
The access is raw,
that is, it does not invoke the @idx{__index} metamethod.

Returns the type of the pushed value.

}

@APIEntry{int lua_rawgetp (lua_State *L, int index, const void *p);|
@apii{0,1,-}

Pushes onto the stack the value @T{t[k]},
where @id{t} is the table at the given index and
@id{k} is the pointer @id{p} represented as a light userdata.
The access is raw;
that is, it does not invoke the @idx{__index} metamethod.

Returns the type of the pushed value.

}

@APIEntry{size_t lua_rawlen (lua_State *L, int index);|
@apii{0,0,-}

Returns the raw @Q{length} of the value at the given index:
for strings, this is the string length;
for tables, this is the result of the length operator (@Char{#})
with no metamethods;
for userdata, this is the size of the block of memory allocated
for the userdata;
for other values, it @N{is 0}.

}

@APIEntry{void lua_rawset (lua_State *L, int index);|
@apii{2,0,m}

Similar to @Lid{lua_settable},
 but does a raw assignment
(i.e., without metamethods).

}

@APIEntry{void lua_rawseti (lua_State *L, int index, lua_Integer i);|
@apii{1,0,m}

Does the equivalent of @T{t[i] = v},
where @id{t} is the table at the given index
and @id{v} is the value at the top of the stack.

This function pops the value from the stack.
The assignment is raw,
that is, it does not invoke the @idx{__newindex} metamethod.

}

@APIEntry{void lua_rawsetp (lua_State *L, int index, const void *p);|
@apii{1,0,m}

Does the equivalent of @T{t[p] = v},
where @id{t} is the table at the given index,
@id{p} is encoded as a light userdata,
and @id{v} is the value at the top of the stack.

This function pops the value from the stack.
The assignment is raw,
that is, it does not invoke @idx{__newindex} metamethod.

}

@APIEntry{

```
typedef const char * (*lua_Reader) (lua_State *L,
                                    void *data,
                                    size_t *size);|
```

The reader function used by @Lid{lua_load}.
Every
 time it needs another piece of the chunk,
@Lid{lua_load} calls the reader,
passing along its @id{data} parameter.
The reader must return a pointer to a block of memory
with a new piece of the chunk
and set @id{size} to the block size.
The block must exist until the reader function is called again.
To signal the end of the chunk,
the reader must return @id{NULL} or set @id{size} to zero.
The reader function may return pieces of any size greater than zero.

}

@APIEntry{void lua_register (lua_State *L, const char *name, lua_CFunction f);|
@apii{0,0,e}

Sets the @N{C function} @id{f} as the new value of global @id{name}.
It is defined as a macro:
@verbatim{
#define lua_register(L,n,f) \
     (lua_pushcfunction(L, f), lua_setglobal(L, n))
}

}

@APIEntry{void lua_remove (lua_State *L, int index);|
@apii{1,0,-}

Removes the element at the given valid index,
shifting down the elements above this index to fill the gap.
This function cannot be called with a pseudo-index,
because
 a pseudo-index is not an actual stack position.

}

@APIEntry{void lua_replace (lua_State *L, int index);|
@apii{1,0,-}

Moves the top element into the given valid index
without shifting any element
(therefore replacing the value at that given index),

and then pops the top element.

}

@APIEntry{int lua_resume (lua_State *L, lua_State *from, int nargs);|
@apii{?,?,-}

Starts and resumes a coroutine in the given thread @id{L}.

To start a coroutine,
you push onto the thread stack the main function plus any arguments;
then you call @Lid{lua_resume},
with @id{nargs} being the number of arguments.
This call returns when the coroutine suspends or finishes its execution.
When it returns, the stack contains all values passed to @Lid{lua_yield},
or all values returned by the body function.
@Lid{lua_resume} returns
@Lid{LUA_YIELD} if the coroutine yields,
@Lid{LUA_OK} if the coroutine finishes its execution
without errors,
or an error code in case of errors @seeC{lua_pcall}.

In case of errors,
the
 stack is not unwound,
so you can use the debug API over it.
The error object is on the top of the stack.

To resume a coroutine,
you remove any results from the last @Lid{lua_yield},
put on its stack only the values to
be passed as results from @id{yield},
and then call @Lid{lua_resume}.

The parameter @id{from} represents the coroutine that is resuming @id{L}.
If there is no such coroutine,
this parameter can be @id{NULL}.

}

@APIEntry{void lua_rotate (lua_State *L, int idx, int n);|
@apii{0,0,-}

Rotates the stack elements between the valid index @id{idx}
and the top of the stack.
The elements are rotated @id{n} positions in the direction of the top,
for a positive @id{n},
or @T{-n} positions in the direction of the bottom,

for a negative @id{n}.
The absolute value of @id{n} must not be greater than the size
of the slice being rotated.
This function cannot be called with a pseudo-index,
because a pseudo-index is not an actual stack position.

}

@APIEntry{void lua_setallocf
 (lua_State *L, lua_Alloc f, void *ud);|
@apii{0,0,-}

Changes the @x{allocator function} of a given state to @id{f}
with user data @id{ud}.

}

@APIEntry{void lua_setfield (lua_State *L, int index, const char *k);|
@apii{1,0,e}

Does the equivalent to @T{t[k] = v},
where @id{t} is the value at the given index
and @id{v} is the value at the top of the stack.

This function pops the value from the stack.
As in Lua, this function may trigger a metamethod
for the @Q{newindex} event @see{metatable}.

}

@APIEntry{void lua_setglobal (lua_State *L, const char *name);|
@apii{1,0,e}

Pops a value from the stack and
sets it as the new value of global @id{name}.

}

@APIEntry{void lua_seti (lua_State *L, int index, lua_Integer n);|
@apii{1,0,e}

Does the equivalent to @T{t[n] = v},
where @id{t} is the value at the given index
and @id{v} is the value at the top of the stack.

This function pops the value from the stack.
As in Lua, this function may trigger a metamethod
for the @Q{newindex} event

@see{metatable}.

}

@APIEntry{void lua_setmetatable (lua_State *L, int index);|
@apii{1,0,-}

Pops a table from the stack and
sets it as the new metatable for the value at the given index.

}

@APIEntry{void lua_settable (lua_State *L, int index);|
@apii{2,0,e}

Does the equivalent to @T{t[k] = v},
where @id{t} is the value at the given index,
@id{v} is the value at the top of the stack,
and @id{k} is the value just below the top.

This function pops both the key and the value from the stack.
As in Lua, this function may trigger a metamethod
for the @Q{newindex} event @see{metatable}.

}

@APIEntry{void lua_settop (lua_State *L, int index);|
@apii{?,?,-}

Accepts any index, @N{or 0},
and sets the stack top to this index.
If the new top is larger than the old one,
then the new elements are filled with @nil.
If @id{index} @N{is 0}, then all stack elements are removed.

}

@APIEntry{void lua_setuservalue (lua_State *L, int index);|
@apii{1,0,-}

Pops a value from the stack and sets it as
the
new value associated to the full userdata at the given index.

}

@APIEntry{typedef struct lua_State lua_State;|

An opaque structure that points to a thread and indirectly
(through the thread) to the whole state of a Lua interpreter.
The Lua library is fully reentrant:
it has no global variables.
All information about a state is accessible through this structure.

A pointer to this structure must be passed as the first argument to
every function in the library, except to @Lid{lua_newstate},
which creates a Lua state from scratch.

}

@APIEntry{int lua_status (lua_State *L);|
@apii{0,0,-}

Returns the status of the thread @id{L}.

The status can be 0 (@Lid{LUA_OK}) for a normal thread,
an error code if the thread finished the execution
of a @Lid{lua_resume} with an error,
or @defid{LUA_YIELD} if the thread is suspended.

You can only call functions in threads with status @Lid{LUA_OK}.
You can resume threads with status @Lid{LUA_OK}
(to start a new coroutine) or @Lid{LUA_YIELD}
(to
 resume a coroutine).

}

@APIEntry{size_t lua_stringtonumber (lua_State *L, const char *s);|
@apii{0,1,-}

Converts the zero-terminated string @id{s} to a number,
pushes that number into the stack,
and returns the total size of the string,
that is, its length plus one.
The conversion can result in an integer or a float,
according to the lexical conventions of Lua @see{lexical}.
The string may have leading and trailing spaces and a sign.
If the string is not a valid numeral,
returns 0 and pushes nothing.
(Note that the result can be used as a boolean,
true if the conversion succeeds.)

}

@APIEntry{int lua_toboolean (lua_State *L, int index);|

@apii{0,0,-}

Converts the Lua value at the given index to a @N{C boolean}
value (@N{0 or 1}).
Like all tests in Lua,
@Lid{lua_toboolean} returns true for any Lua value
different from @false and @nil;
otherwise it returns false.
(If you want to accept only actual boolean values,
use @Lid{lua_isboolean} to test the value's type.)

}

@APIEntry{lua_CFunction
 lua_tocfunction (lua_State *L, int index);|
@apii{0,0,-}

Converts a value at the given index to a @N{C function}.
That value must be a @N{C function};
otherwise, returns @id{NULL}.

}

@APIEntry{lua_Integer lua_tointeger (lua_State *L, int index);|
@apii{0,0,-}

Equivalent to @Lid{lua_tointegerx} with @id{isnum} equal to @id{NULL}.

}

@APIEntry{lua_Integer lua_tointegerx (lua_State *L, int index, int *isnum);|
@apii{0,0,-}

Converts the Lua value at the given index
to the signed integral type @Lid{lua_Integer}.
The Lua value must be an integer,
or a number or string convertible to an integer @see{coercion};
otherwise, @id{lua_tointegerx} @N{returns 0}.

If @id{isnum} is not @id{NULL},
its referent is assigned a boolean value that
indicates whether the operation succeeded.

}

@APIEntry{const char *lua_tolstring (lua_State *L, int index, size_t *len);|
@apii{0,0,m}

Converts the Lua value at the given index to a @N{C string}.
If @id{len} is not @id{NULL},
it sets @T{*len}
 with the string length.
The Lua value must be a string or a number;
otherwise, the function returns @id{NULL}.
If the value is a number,
then @id{lua_tolstring} also
@emph{changes the actual value in the stack to a string}.
(This change confuses @Lid{lua_next}
when @id{lua_tolstring} is applied to keys during a table traversal.)

@id{lua_tolstring} returns a pointer
to a string inside the Lua state.
This string always has a zero (@Char{\0})
after its last character (as @N{in C}),
but can contain other zeros in its body.

Because Lua has garbage collection,
there is no guarantee that the pointer returned by @id{lua_tolstring}
will be valid after the corresponding Lua value is removed from the stack.

}

@APIEntry{lua_Number lua_tonumber (lua_State *L, int index);|
@apii{0,0,-}

Equivalent to @Lid{lua_tonumberx} with @id{isnum} equal to @id{NULL}.

}

@APIEntry{lua_Number lua_tonumberx (lua_State *L, int index, int *isnum);|
@apii{0,0,-}

Converts the Lua value at the given index
to the
 @N{C type} @Lid{lua_Number} @seeC{lua_Number}.
The Lua value must be a number or a string convertible to a number
@see{coercion};
otherwise, @Lid{lua_tonumberx} @N{returns 0}.

If @id{isnum} is not @id{NULL},
its referent is assigned a boolean value that
indicates whether the operation succeeded.

}

@APIEntry{const void *lua_topointer (lua_State *L, int index);|

@apii{0,0,-}

Converts the value at the given index to a generic
@N{C pointer} (@T{void*}).
The value can be a userdata, a table, a thread, or a function;
otherwise, @id{lua_topointer} returns @id{NULL}.
Different objects will give different pointers.
There is no way to convert the pointer back to its original value.

Typically this function is used only for hashing and debug information.

}

@APIEntry{const char *lua_tostring (lua_State *L, int index);|
@apii{0,0,m}

Equivalent to @Lid{lua_tolstring} with @id{len} equal to @id{NULL}.

}

@APIEntry{lua_State *lua_tothread (lua_State *L, int index);|
@apii{0,0,-}

Converts the
 value at the given index to a Lua thread
(represented as @T{lua_State*}).
This value must be a thread;
otherwise, the function returns @id{NULL}.

}

@APIEntry{void *lua_touserdata (lua_State *L, int index);|
@apii{0,0,-}

If the value at the given index is a full userdata,
returns its block address.
If the value is a light userdata,
returns its pointer.
Otherwise, returns @id{NULL}.

}

@APIEntry{int lua_type (lua_State *L, int index);|
@apii{0,0,-}

Returns the type of the value in the given valid index,
or @id{LUA_TNONE} for a non-valid (but acceptable) index.
The types returned by @Lid{lua_type} are coded by the following constants

defined in @id{lua.h}:
@defid{LUA_TNIL} (0),
@defid{LUA_TNUMBER},
@defid{LUA_TBOOLEAN},
@defid{LUA_TSTRING},
@defid{LUA_TTABLE},
@defid{LUA_TFUNCTION},
@defid{LUA_TUSERDATA},
@defid{LUA_TTHREAD},
and
@defid{LUA_TLIGHTUSERDATA}.

}

@APIEntry{const char *lua_typename (lua_State *L, int tp);|
@apii{0,0,-}

Returns the name of the type encoded by the value
@id{tp},
which must be one the values returned by @Lid{lua_type}.

}

@APIEntry{typedef @ldots lua_Unsigned;|

The unsigned version of @Lid{lua_Integer}.

}

@APIEntry{int lua_upvalueindex (int i);|
@apii{0,0,-}

Returns the pseudo-index that represents the @id{i}-th upvalue of
the running function @see{c-closure}.

}

@APIEntry{const lua_Number *lua_version (lua_State *L);|
@apii{0,0,-}

Returns the address of the version number
(a C static variable)
stored in the Lua core.
When called with a valid @Lid{lua_State},
returns the address of the version used to create that state.
When called with @id{NULL},
returns the address of the version running the call.

```
}

@APIEntry{
typedef int (*lua_Writer) (lua_State *L,
                    const void* p,
                    size_t sz,
                    void* ud);|

The type of the writer function used by @Lid{lua_dump}.
Every time it produces another piece of chunk,
@Lid{lua_dump} calls the writer,
passing along the buffer
 to be written (@id{p}),
its size (@id{sz}),
and the @id{data} parameter supplied to @Lid{lua_dump}.

The writer returns an error code:
@N{0 means} no errors;
any other value means an error and stops @Lid{lua_dump} from
calling the writer again.

}

@APIEntry{void lua_xmove (lua_State *from, lua_State *to, int n);|
@apii{?,?,-}

Exchange values between different threads of the same state.

This function pops @id{n} values from the stack @id{from},
and pushes them onto the stack @id{to}.

}

@APIEntry{int lua_yield (lua_State *L, int nresults);|
@apii{?,?,e}

This function is equivalent to @Lid{lua_yieldk},
but it has no continuation @see{continuations}.
Therefore, when the thread resumes,
it continues the function that called
the function calling @id{lua_yield}.

}


@APIEntry{
int lua_yieldk (lua_State *L,
            int nresults,
```

```
            lua_KContext ctx,
            lua_KFunction k);|
```
@apii{?,?,e}

Yields a coroutine (thread).

When a @N{C function} calls @Lid{lua_yieldk},
the
 running coroutine suspends its execution,
and the call to @Lid{lua_resume} that started this coroutine returns.
The parameter @id{nresults} is the number of values from the stack
that will be passed as results to @Lid{lua_resume}.

When the coroutine is resumed again,
Lua calls the given @x{continuation function} @id{k} to continue
the execution of the @N{C function} that yielded @see{continuations}.
This continuation function receives the same stack
from the previous function,
with the @id{n} results removed and
replaced by the arguments passed to @Lid{lua_resume}.
Moreover,
the continuation function receives the value @id{ctx}
that was passed to @Lid{lua_yieldk}.

Usually, this function does not return;
when the coroutine eventually resumes,
it continues executing the continuation function.
However, there is one special case,
which is when this function is called
from inside a line or a count hook @see{debugI}.
In that case, @id{lua_yieldk} should be called with no continuation
(probably
 in the form of @Lid{lua_yield}) and no results,
and the hook should return immediately after the call.
Lua will yield and,
when the coroutine resumes again,
it will continue the normal execution
of the (Lua) function that triggered the hook.

This function can raise an error if it is called from a thread
with a pending C call with no continuation function,
or it is called from a thread that is not running inside a resume
(e.g., the main thread).

}

}

@sect2{debugI| @title{The Debug Interface}

Lua has no built-in debugging facilities.
Instead, it offers a special interface
by means of functions and @emph{hooks}.
This interface allows the construction of different
kinds of debuggers, profilers, and other tools
that need @Q{inside information} from the interpreter.

```
@APIEntry{
typedef struct lua_Debug {
 int event;
 const char *name;          /* (n) */
 const char *namewhat;      /* (n) */
 const char *what;          /* (S) */
 const char *source;        /*
 (S) */
 int currentline;           /* (l) */
 int linedefined;           /* (S) */
 int lastlinedefined;       /* (S) */
 unsigned char nups;        /* (u) number of upvalues */
 unsigned char nparams;     /* (u) number of parameters */
 char isvararg;             /* (u) */
 char istailcall;           /* (t) */
 char short_src[LUA_IDSIZE]; /* (S) */
 /* private part */
 @rep{other fields}
} lua_Debug;
|
```

A structure used to carry different pieces of
information about a function or an activation record.
@Lid{lua_getstack} fills only the private part
of this structure, for later use.
To fill the other fields of @Lid{lua_Debug} with useful information,
call @Lid{lua_getinfo}.

The fields of @Lid{lua_Debug} have the following meaning:
@description{

@item{@id{source}|
the name of the chunk that created the function.
If @T{source} starts with a @Char{@At},
it means that the function was defined in a file where
the file name follows the @Char{@At}.
If @T{source} starts with

a @Char{=},
the remainder of its contents describe the source in a user-dependent manner.
Otherwise,
the function was defined in a string where
@T{source} is that string.
}

@item{@id{short_src}|
a @Q{printable} version of @T{source}, to be used in error messages.
}

@item{@id{linedefined}|
the line number where the definition of the function starts.
}

@item{@id{lastlinedefined}|
the line number where the definition of the function ends.
}

@item{@id{what}|
the string @T{"Lua"} if the function is a Lua function,
@T{"C"} if it is a @N{C function},
@T{"main"} if it is the main part of a chunk.
}

@item{@id{currentline}|
the current line where the given function is executing.
When no line information is available,
@T{currentline} is set to @num{-1}.
}

@item{@id{name}|
a reasonable name for the given function.
Because functions in Lua are first-class values,
they do not have a fixed name:
some functions can be the value of multiple global variables,
while others can be stored only in a table
field.
The @T{lua_getinfo} function checks how the function was
called to find a suitable name.
If it cannot find a name,
then @id{name} is set to @id{NULL}.
}

@item{@id{namewhat}|
explains the @T{name} field.
The value of @T{namewhat} can be
@T{"global"}, @T{"local"}, @T{"method"},

@T{"field"}, @T{"upvalue"}, or @T{""} (the empty string),
according to how the function was called.
(Lua uses the empty string when no other option seems to apply.)
}

@item{@id{istailcall}|
true if this function invocation was called by a tail call.
In this case, the caller of this level is not in the stack.
}

@item{@id{nups}|
the number of upvalues of the function.
}

@item{@id{nparams}|
the number of fixed parameters of the function
(always @N{0 for} @N{C functions}).
}

@item{@id{isvararg}|
true if the function is a vararg function
(always true for @N{C functions}).
}

}

}

@APIEntry{lua_Hook lua_gethook (lua_State *L);|
@apii{0,0,-}

Returns the current hook function.

}

@APIEntry{int lua_gethookcount
 (lua_State *L);|
@apii{0,0,-}

Returns the current hook count.

}

@APIEntry{int lua_gethookmask (lua_State *L);|
@apii{0,0,-}

Returns the current hook mask.

}

@APIEntry{int lua_getinfo (lua_State *L, const char *what, lua_Debug *ar);|
@apii{0|1,0|1|2,e}

Gets information about a specific function or function invocation.

To get information about a function invocation,
the parameter @id{ar} must be a valid activation record that was
filled by a previous call to @Lid{lua_getstack} or
given as argument to a hook @seeC{lua_Hook}.

To get information about a function, you push it onto the stack
and start the @id{what} string with the character @Char{>}.
(In that case,
@id{lua_getinfo} pops the function from the top of the stack.)
For instance, to know in which line a function @id{f} was defined,
you can write the following code:
@verbatim{
lua_Debug ar;
lua_getglobal(L, "f"); /* get global 'f' */
lua_getinfo(L, ">S", &ar);
printf("%d\n", ar.linedefined);
}

Each character in the
 string @id{what}
selects some fields of the structure @id{ar} to be filled or
a value to be pushed on the stack:
@description{

@item{@Char{n}| fills in the field @id{name} and @id{namewhat};
}

@item{@Char{S}|
fills in the fields @id{source}, @id{short_src},
@id{linedefined}, @id{lastlinedefined}, and @id{what};
}

@item{@Char{l}| fills in the field @id{currentline};
}

@item{@Char{t}| fills in the field @id{istailcall};
}

@item{@Char{u}| fills in the fields
@id{nups}, @id{nparams}, and @id{isvararg};
}

@item{@Char{f}|
pushes onto the stack the function that is
running at the given level;
}

@item{@Char{L}|
pushes onto the stack a table whose indices are the
numbers of the lines that are valid on the function.
(A @emph{valid line} is a line with some associated code,
that is, a line where you can put a break point.
Non-valid lines include empty lines and comments.)

If this option is given together with option @Char{f},
its table is pushed after the function.
}

}

This function
returns 0 on error
(for instance, an invalid option in @id{what}).

}

@APIEntry{const char *lua_getlocal (lua_State *L, const lua_Debug *ar, int n);|
@apii{0,0|1,-}

Gets information about a local variable of
a given activation record or a given function.

In the first case,
the parameter @id{ar} must be a valid activation record that was
filled by a previous call to @Lid{lua_getstack} or
given as argument to a hook @seeC{lua_Hook}.
The index @id{n} selects which local variable to inspect;
see @Lid{debug.getlocal} for details about variable indices
and names.

@Lid{lua_getlocal} pushes the variable's value onto the stack
and returns its name.

In the second case, @id{ar} must be @id{NULL} and the function
to be inspected must be at the top of the stack.
In this case, only parameters of Lua functions are visible
(as there is no information about what variables are active)
and no values are pushed onto the stack.

Returns @id{NULL} (and pushes nothing)
when the index is greater than
the
 number of active local variables.

}

@APIEntry{int lua_getstack (lua_State *L, int level, lua_Debug *ar);|
@apii{0,0,-}

Gets information about the interpreter runtime stack.

This function fills parts of a @Lid{lua_Debug} structure with
an identification of the @emph{activation record}
of the function executing at a given level.
@N{Level 0} is the current running function,
whereas level @M{n+1} is the function that has called level @M{n}
(except for tail calls, which do not count on the stack).
When there are no errors, @Lid{lua_getstack} returns 1;
when called with a level greater than the stack depth,
it returns 0.

}

@APIEntry{const char *lua_getupvalue (lua_State *L, int funcindex, int n);|
@apii{0,0|1,-}

Gets information about the @id{n}-th upvalue
of the closure at index @id{funcindex}.
It pushes the upvalue's value onto the stack
and returns its name.
Returns @id{NULL} (and pushes nothing)
when the index @id{n} is greater than the number of upvalues.

For @N{C functions}, this
 function uses the empty string @T{""}
as a name for all upvalues.
(For Lua functions,
upvalues are the external local variables that the function uses,
and that are consequently included in its closure.)

Upvalues have no particular order,
as they are active through the whole function.
They are numbered in an arbitrary order.

}

@APIEntry{typedef void (*lua_Hook) (lua_State *L, lua_Debug *ar);|

Type for debugging hook functions.

Whenever a hook is called, its @id{ar} argument has its field
@id{event} set to the specific event that triggered the hook.
Lua identifies these events with the following constants:
@defid{LUA_HOOKCALL}, @defid{LUA_HOOKRET},
@defid{LUA_HOOKTAILCALL}, @defid{LUA_HOOKLINE},
and @defid{LUA_HOOKCOUNT}.
Moreover, for line events, the field @id{currentline} is also set.
To get the value of any other field in @id{ar},
the hook must call @Lid{lua_getinfo}.

For call events, @id{event} can be @id{LUA_HOOKCALL},
the normal value, or @id{LUA_HOOKTAILCALL}, for a tail
call;
in this case, there will be no corresponding return event.

While Lua is running a hook, it disables other calls to hooks.
Therefore, if a hook calls back Lua to execute a function or a chunk,
this execution occurs without any calls to hooks.

Hook functions cannot have continuations,
that is, they cannot call @Lid{lua_yieldk},
@Lid{lua_pcallk}, or @Lid{lua_callk} with a non-null @id{k}.

Hook functions can yield under the following conditions:
Only count and line events can yield;
to yield, a hook function must finish its execution
calling @Lid{lua_yield} with @id{nresults} equal to zero
(that is, with no values).

}

@APIEntry{void lua_sethook (lua_State *L, lua_Hook f, int mask, int count);|
@apii{0,0,-}

Sets the debugging hook function.

Argument @id{f} is the hook function.
@id{mask} specifies on which events the hook will be called:
it is formed by a bitwise OR of the constants
@defid{LUA_MASKCALL},
@defid{LUA_MASKRET},
@defid{LUA_MASKLINE},
and @defid{LUA_MASKCOUNT}.
The

@id{count} argument is only meaningful when the mask
includes @id{LUA_MASKCOUNT}.
For each event, the hook is called as explained below:
@description{

@item{The call hook| is called when the interpreter calls a function.
The hook is called just after Lua enters the new function,
before the function gets its arguments.
}

@item{The return hook| is called when the interpreter returns from a function.
The hook is called just before Lua leaves the function.
There is no standard way to access the values
to be returned by the function.
}

@item{The line hook| is called when the interpreter is about to
start the execution of a new line of code,
or when it jumps back in the code (even to the same line).
(This event only happens while Lua is executing a Lua function.)
}

@item{The count hook| is called after the interpreter executes every
@T{count} instructions.
(This event only happens while Lua is executing a Lua function.)
}

}

A hook is disabled by setting @id{mask} to zero.

}

@APIEntry{const
char *lua_setlocal (lua_State *L, const lua_Debug *ar, int n);|
@apii{0|1,0,-}

Sets the value of a local variable of a given activation record.
It assigns the value at the top of the stack
to the variable and returns its name.
It also pops the value from the stack.

Returns @id{NULL} (and pops nothing)
when the index is greater than
the number of active local variables.

Parameters @id{ar} and @id{n} are as in function @Lid{lua_getlocal}.

}

@APIEntry{const char *lua_setupvalue (lua_State *L, int funcindex, int n);|
@apii{0|1,0,-}

Sets the value of a closure's upvalue.
It assigns the value at the top of the stack
to the upvalue and returns its name.
It also pops the value from the stack.

Returns @id{NULL} (and pops nothing)
when the index @id{n} is greater than the number of upvalues.

Parameters @id{funcindex} and @id{n} are as in function @Lid{lua_getupvalue}.

}

@APIEntry{void *lua_upvalueid (lua_State *L, int funcindex, int n);|
@apii{0,0,-}

Returns a unique identifier
 for the upvalue numbered @id{n}
from the closure at index @id{funcindex}.

These unique identifiers allow a program to check whether different
closures share upvalues.
Lua closures that share an upvalue
(that is, that access a same external local variable)
will return identical ids for those upvalue indices.

Parameters @id{funcindex} and @id{n} are as in function @Lid{lua_getupvalue},
but @id{n} cannot be greater than the number of upvalues.

}

@APIEntry{
void lua_upvaluejoin (lua_State *L, int funcindex1, int n1,
                      int funcindex2, int n2);|
@apii{0,0,-}

Make the @id{n1}-th upvalue of the Lua closure at index @id{funcindex1}
refer to the @id{n2}-th upvalue of the Lua closure at index @id{funcindex2}.

}

}

}

@C{----------}
@sect1{@title{The Auxiliary Library}

@index{lauxlib.h}
The @def{auxiliary library} provides several convenient functions
to interface C with Lua.
While the basic
API provides the primitive functions for all
interactions between C and Lua,
the auxiliary library provides higher-level functions for some
common tasks.

All functions and types from the auxiliary library
are defined in header file @id{lauxlib.h} and
have a prefix @id{luaL_}.

All functions in the auxiliary library are built on
top of the basic API,
and so they provide nothing that cannot be done with that API.
Nevertheless, the use of the auxiliary library ensures
more consistency to your code.

Several functions in the auxiliary library use internally some
extra stack slots.
When a function in the auxiliary library uses less than five slots,
it does not check the stack size;
it simply assumes that there are enough slots.

Several functions in the auxiliary library are used to
check @N{C function} arguments.
Because the error message is formatted for arguments
(e.g., @St{bad argument #1}),
you should not use these functions for other stack values.

Functions called @id{luaL_check*}
always
raise an error if the check is not satisfied.

@sect2{@title{Functions and Types}

Here we list all functions and types from the auxiliary library
in alphabetical order.

@APIEntry{void luaL_addchar (luaL_Buffer *B, char c);|

@apii{?,?,m}

Adds the byte @id{c} to the buffer @id{B}
@seeC{luaL_Buffer}.

}

@APIEntry{void luaL_addlstring (luaL_Buffer *B, const char *s, size_t l);|
@apii{?,?,m}

Adds the string pointed to by @id{s} with length @id{l} to
the buffer @id{B}
@seeC{luaL_Buffer}.
The string can contain @x{embedded zeros}.

}

@APIEntry{void luaL_addsize (luaL_Buffer *B, size_t n);|
@apii{?,?,-}

Adds to the buffer @id{B} @seeC{luaL_Buffer}
a string of length @id{n} previously copied to the
buffer area @seeC{luaL_prepbuffer}.

}

@APIEntry{void luaL_addstring (luaL_Buffer *B, const char *s);|
@apii{?,?,m}

Adds the zero-terminated string pointed to by @id{s}
to the buffer @id{B}
@seeC{luaL_Buffer}.

}

@APIEntry{void luaL_addvalue (luaL_Buffer *B);|
@apii{1,?,m}

Adds
 the value at the top of the stack
to the buffer @id{B}
@seeC{luaL_Buffer}.
Pops the value.

This is the only function on string buffers that can (and must)
be called with an extra element on the stack,
which is the value to be added to the buffer.

```
}

@APIEntry{
void luaL_argcheck (lua_State *L,
                int cond,
                int arg,
                const char *extramsg);|
@apii{0,0,v}

Checks whether @id{cond} is true.
If it is not, raises an error with a standard message @seeF{luaL_argerror}.

}

@APIEntry{int luaL_argerror (lua_State *L, int arg, const char *extramsg);|
@apii{0,0,v}

Raises an error reporting a problem with argument @id{arg}
of the @N{C function} that called it,
using a standard message
that includes @id{extramsg} as a comment:
@verbatim{
bad argument #@rep{arg} to '@rep{funcname}' (@rep{extramsg})
}
This function never returns.

}

@APIEntry{typedef struct luaL_Buffer luaL_Buffer;|

Type for a @def{string buffer}.

A string buffer allows @N{C
 code} to build Lua strings piecemeal.
Its pattern of use is as follows:
@itemize{

@item{First declare a variable @id{b} of type @Lid{luaL_Buffer}.}

@item{Then initialize it with a call @T{luaL_buffinit(L, &b)}.}

@item{
Then add string pieces to the buffer calling any of
the @id{luaL_add*} functions.
}

@item{
Finish by calling @T{luaL_pushresult(&b)}.
```

This call leaves the final string on the top of the stack.
}

}

If you know beforehand the total size of the resulting string,
you can use the buffer like this:
@itemize{

@item{First declare a variable @id{b} of type @Lid{luaL_Buffer}.}

@item{Then initialize it and preallocate a space of
size @id{sz} with a call @T{luaL_buffinitsize(L, &b, sz)}.}

@item{Then copy the string into that space.}

@item{
Finish by calling @T{luaL_pushresultsize(&b, sz)},
where @id{sz} is the total size of the resulting string
copied into that space.
}

}

During its normal operation,
a string buffer uses a variable number of stack slots.
So, while using
 a buffer, you cannot assume that you know where
the top of the stack is.
You can use the stack between successive calls to buffer operations
as long as that use is balanced;
that is,
when you call a buffer operation,
the stack is at the same level
it was immediately after the previous buffer operation.
(The only exception to this rule is @Lid{luaL_addvalue}.)
After calling @Lid{luaL_pushresult} the stack is back to its
level when the buffer was initialized,
plus the final string on its top.

}

@APIEntry{void luaL_buffinit (lua_State *L, luaL_Buffer *B);|
@apii{0,0,-}

Initializes a buffer @id{B}.
This function does not allocate any space;
the buffer must be declared as a variable

@seeC{luaL_Buffer}.

}

@APIEntry{char *luaL_buffinitsize (lua_State *L, luaL_Buffer *B, size_t sz);|
@apii{?,?,m}

Equivalent to the sequence
@Lid{luaL_buffinit}, @Lid{luaL_prepbuffsize}.

}

@APIEntry{int luaL_callmeta (lua_State *L, int obj, const char *e);|
@apii{0,0|1,e}

Calls a metamethod.

If the object
 at index @id{obj} has a metatable and this
metatable has a field @id{e},
this function calls this field passing the object as its only argument.
In this case this function returns true and pushes onto the
stack the value returned by the call.
If there is no metatable or no metamethod,
this function returns false (without pushing any value on the stack).

}

@APIEntry{void luaL_checkany (lua_State *L, int arg);|
@apii{0,0,v}

Checks whether the function has an argument
of any type (including @nil) at position @id{arg}.

}

@APIEntry{lua_Integer luaL_checkinteger (lua_State *L, int arg);|
@apii{0,0,v}

Checks whether the function argument @id{arg} is an integer
(or can be converted to an integer)
and returns this integer cast to a @Lid{lua_Integer}.

}

@APIEntry{const char *luaL_checklstring (lua_State *L, int arg, size_t *l);|
@apii{0,0,v}

Checks whether the function argument @id{arg} is a string
and returns this string;
if @id{l} is not @id{NULL} fills @T{*l}
with the string's length.

This
 function uses @Lid{lua_tolstring} to get its result,
so all conversions and caveats of that function apply here.

}

@APIEntry{lua_Number luaL_checknumber (lua_State *L, int arg);|
@apii{0,0,v}

Checks whether the function argument @id{arg} is a number
and returns this number.

}

@APIEntry{
int luaL_checkoption (lua_State *L,
                int arg,
                const char *def,
                const char *const lst[]);|
@apii{0,0,v}

Checks whether the function argument @id{arg} is a string and
searches for this string in the array @id{lst}
(which must be NULL-terminated).
Returns the index in the array where the string was found.
Raises an error if the argument is not a string or
if the string cannot be found.

If @id{def} is not @id{NULL},
the function uses @id{def} as a default value when
there is no argument @id{arg} or when this argument is @nil.

This is a useful function for mapping strings to @N{C enums}.
(The usual convention in Lua libraries
 is
to use strings instead of numbers to select options.)

}

@APIEntry{void luaL_checkstack (lua_State *L, int sz, const char *msg);|
@apii{0,0,v}

Grows the stack size to @T{top + sz} elements,

raising an error if the stack cannot grow to that size.
@id{msg} is an additional text to go into the error message
(or @id{NULL} for no additional text).

}

@APIEntry{const char *luaL_checkstring (lua_State *L, int arg);|
@apii{0,0,v}

Checks whether the function argument @id{arg} is a string
and returns this string.

This function uses @Lid{lua_tolstring} to get its result,
so all conversions and caveats of that function apply here.

}

@APIEntry{void luaL_checktype (lua_State *L, int arg, int t);|
@apii{0,0,v}

Checks whether the function argument @id{arg} has type @id{t}.
See @Lid{lua_type} for the encoding of types for @id{t}.

}

@APIEntry{void *luaL_checkudata (lua_State *L, int arg, const char *tname);|
@apii{0,0,v}

Checks whether the function argument @id{arg} is a userdata
of the
 type @id{tname} @seeC{luaL_newmetatable} and
returns the userdata address @seeC{lua_touserdata}.

}

@APIEntry{void luaL_checkversion (lua_State *L);|
@apii{0,0,v}

Checks whether the core running the call,
the core that created the Lua state,
and the code making the call are all using the same version of Lua.
Also checks whether the core running the call
and the core that created the Lua state
are using the same address space.

}

@APIEntry{int luaL_dofile (lua_State *L, const char *filename);|

@apii{0,?,e}

Loads and runs the given file.
It is defined as the following macro:
@verbatim{
(luaL_loadfile(L, filename) || lua_pcall(L, 0, LUA_MULTRET, 0))
}
It returns false if there are no errors
or true in case of errors.

}

@APIEntry{int luaL_dostring (lua_State *L, const char *str);|
@apii{0,?,-}

Loads and runs the given string.
It is defined as the following macro:
@verbatim{
(luaL_loadstring(L, str) || lua_pcall(L, 0, LUA_MULTRET, 0))
}
It returns false if there are no errors
or true
 in case of errors.

}

@APIEntry{int luaL_error (lua_State *L, const char *fmt, ...);|
@apii{0,0,v}

Raises an error.
The error message format is given by @id{fmt}
plus any extra arguments,
following the same rules of @Lid{lua_pushfstring}.
It also adds at the beginning of the message the file name and
the line number where the error occurred,
if this information is available.

This function never returns,
but it is an idiom to use it in @N{C functions}
as @T{return luaL_error(@rep{args})}.

}

@APIEntry{int luaL_execresult (lua_State *L, int stat);|
@apii{0,3,m}

This function produces the return values for
process-related functions in the standard library

(@Lid{os.execute} and @Lid{io.close}).

}

@APIEntry{
int luaL_fileresult (lua_State *L, int stat, const char *fname);|
@apii{0,1|3,m}

This function produces the return values for
file-related functions in the standard library
(@Lid{io.open}, @Lid{os.rename}, @Lid{file:seek}, etc.).

}

@APIEntry{int luaL_getmetafield (lua_State
 *L, int obj, const char *e);|
@apii{0,0|1,m}

Pushes onto the stack the field @id{e} from the metatable
of the object at index @id{obj} and returns the type of the pushed value.
If the object does not have a metatable,
or if the metatable does not have this field,
pushes nothing and returns @id{LUA_TNIL}.

}

@APIEntry{int luaL_getmetatable (lua_State *L, const char *tname);|
@apii{0,1,m}

Pushes onto the stack the metatable associated with name @id{tname}
in the registry @seeC{luaL_newmetatable}
(@nil if there is no metatable associated with that name).
Returns the type of the pushed value.

}

@APIEntry{int luaL_getsubtable (lua_State *L, int idx, const char *fname);|
@apii{0,1,e}

Ensures that the value @T{t[fname]},
where @id{t} is the value at index @id{idx},
is a table,
and pushes that table onto the stack.
Returns true if it finds a previous table there
and false if it creates a new table.

}

```
@APIEntry{
const char *luaL_gsub (lua_State *L,
                       const char *s,
                        const char *p,
                       const char *r);|
@apii{0,1,m}

Creates a copy of string @id{s} by replacing
any occurrence of the string @id{p}
with the string @id{r}.
Pushes the resulting string on the stack and returns it.

}

@APIEntry{lua_Integer luaL_len (lua_State *L, int index);|
@apii{0,0,e}

Returns the @Q{length} of the value at the given index
as a number;
it is equivalent to the @Char{#} operator in Lua @see{len-op}.
Raises an error if the result of the operation is not an integer.
(This case only can happen through metamethods.)

}

@APIEntry{
int luaL_loadbuffer (lua_State *L,
                     const char *buff,
                     size_t sz,
                     const char *name);|
@apii{0,1,-}

Equivalent to @Lid{luaL_loadbufferx} with @id{mode} equal to @id{NULL}.

}


@APIEntry{
int luaL_loadbufferx (lua_State *L,
                      const char *buff,
                      size_t sz,
                      const char *name,

               const char *mode);|
@apii{0,1,-}

Loads a buffer as a Lua chunk.
This function uses @Lid{lua_load} to load the chunk in the
```

buffer pointed to by @id{buff} with size @id{sz}.

This function returns the same results as @Lid{lua_load}.
@id{name} is the chunk name,
used for debug information and error messages.
The string @id{mode} works as in function @Lid{lua_load}.

}

@APIEntry{int luaL_loadfile (lua_State *L, const char *filename);|
@apii{0,1,m}

Equivalent to @Lid{luaL_loadfilex} with @id{mode} equal to @id{NULL}.

}

@APIEntry{int luaL_loadfilex (lua_State *L, const char *filename,
const char *mode);|
@apii{0,1,m}

Loads a file as a Lua chunk.
This function uses @Lid{lua_load} to load the chunk in the file
named @id{filename}.
If @id{filename} is @id{NULL},
then it loads from the standard input.
The first line in the file is ignored if it starts with a @T{#}.

The string @id{mode} works as in function @Lid{lua_load}.

This function
returns the same results as @Lid{lua_load},
but it has an extra error code @defid{LUA_ERRFILE}
for file-related errors
(e.g., it cannot open or read the file).

As @Lid{lua_load}, this function only loads the chunk;
it does not run it.

}

@APIEntry{int luaL_loadstring (lua_State *L, const char *s);|
@apii{0,1,-}

Loads a string as a Lua chunk.
This function uses @Lid{lua_load} to load the chunk in
the zero-terminated string @id{s}.

This function returns the same results as @Lid{lua_load}.

Also as @Lid{lua_load}, this function only loads the chunk;
it does not run it.

}

@APIEntry{void luaL_newlib (lua_State *L, const luaL_Reg l[]);|
@apii{0,1,m}

Creates a new table and registers there
the functions in list @id{l}.

It is implemented as the following macro:
@verbatim{
(luaL_newlibtable(L,l), luaL_setfuncs(L,l,0))
}
The array @id{l} must be the actual array,
not a pointer to it.

}

@APIEntry{void luaL_newlibtable (lua_State *L, const luaL_Reg l[]);|
@apii{0,1,m}

Creates a new
 table with a size optimized
to store all entries in the array @id{l}
(but does not actually store them).
It is intended to be used in conjunction with @Lid{luaL_setfuncs}
@seeF{luaL_newlib}.

It is implemented as a macro.
The array @id{l} must be the actual array,
not a pointer to it.

}

@APIEntry{int luaL_newmetatable (lua_State *L, const char *tname);|
@apii{0,1,m}

If the registry already has the key @id{tname},
returns 0.
Otherwise,
creates a new table to be used as a metatable for userdata,
adds to this new table the pair @T{__name = tname},
adds to the registry the pair @T{[tname] = new table},

and returns 1.
(The entry @idx{__name} is used by some error-reporting functions.)

In both cases pushes onto the stack the final value associated
with @id{tname} in the registry.

}

@APIEntry{lua_State *luaL_newstate (void);|
@apii{0,0,-}

Creates a new Lua state.
It calls @Lid{lua_newstate} with an
allocator based on the @N{standard C} @id{realloc} function
and then sets a panic function
 @see{C-error} that prints
an error message to the standard error output in case of fatal
errors.

Returns the new state,
or @id{NULL} if there is a @x{memory allocation error}.

}

@APIEntry{void luaL_openlibs (lua_State *L);|
@apii{0,0,e}

Opens all standard Lua libraries into the given state.

}

@APIEntry{
T luaL_opt (L, func, arg, dflt);|
@apii{0,0,e}

This macro is defined as follows:
@verbatim{
(lua_isnoneornil(L,(arg)) ? (dflt) : func(L,(arg)))
}
In words, if the argument @id{arg} is nil or absent,
the macro results in the default @id{dflt}.
Otherwise, it results in the result of calling @id{func}
with the state @id{L} and the argument index @id{arg} as
arguments.
Note that it evaluates the expression @id{dflt} only if needed.

}

```
@APIEntry{
lua_Integer luaL_optinteger (lua_State *L,
                        int arg,
                        lua_Integer d);|
@apii{0,0,v}

If the function argument @id{arg} is an integer
(or convertible to an integer),
returns this integer.
If
 this argument is absent or is @nil,
returns @id{d}.
Otherwise, raises an error.

}

@APIEntry{
const char *luaL_optlstring (lua_State *L,
                        int arg,
                        const char *d,
                        size_t *l);|
@apii{0,0,v}

If the function argument @id{arg} is a string,
returns this string.
If this argument is absent or is @nil,
returns @id{d}.
Otherwise, raises an error.

If @id{l} is not @id{NULL},
fills the position @T{*l} with the result's length.
If the result is @id{NULL}
(only possible when returning @id{d} and @T{d == NULL}),
its length is considered zero.

This function uses @Lid{lua_tolstring} to get its result,
so all conversions and caveats of that function apply here.

}

@APIEntry{lua_Number luaL_optnumber (lua_State *L, int arg, lua_Number d);|
@apii{0,0,v}

If the function argument @id{arg} is a number,
returns this number.
If this argument is absent or is @nil,
returns @id{d}.
Otherwise, raises an error.
```

```
}

@APIEntry{
const
 char *luaL_optstring (lua_State *L,
                       int arg,
                       const char *d);|
@apii{0,0,v}

If the function argument @id{arg} is a string,
returns this string.
If this argument is absent or is @nil,
returns @id{d}.
Otherwise, raises an error.

}

@APIEntry{char *luaL_prepbuffer (luaL_Buffer *B);|
@apii{?,?,m}

Equivalent to @Lid{luaL_prepbuffsize}
with the predefined size @defid{LUAL_BUFFERSIZE}.

}

@APIEntry{char *luaL_prepbuffsize (luaL_Buffer *B, size_t sz);|
@apii{?,?,m}

Returns an address to a space of size @id{sz}
where you can copy a string to be added to buffer @id{B}
@seeC{luaL_Buffer}.
After copying the string into this space you must call
@Lid{luaL_addsize} with the size of the string to actually add
it to the buffer.

}

@APIEntry{void luaL_pushresult (luaL_Buffer *B);|
@apii{?,1,m}

Finishes the use of buffer @id{B} leaving the final string on
the top of the stack.

}

@APIEntry{void luaL_pushresultsize (luaL_Buffer
```

```
 *B, size_t sz);|
@apii{?,1,m}

Equivalent to the sequence @Lid{luaL_addsize}, @Lid{luaL_pushresult}.

}

@APIEntry{int luaL_ref (lua_State *L, int t);|
@apii{1,0,m}

Creates and returns a @def{reference},
in the table at index @id{t},
for the object at the top of the stack (and pops the object).

A reference is a unique integer key.
As long as you do not manually add integer keys into table @id{t},
@Lid{luaL_ref} ensures the uniqueness of the key it returns.
You can retrieve an object referred by reference @id{r}
by calling @T{lua_rawgeti(L, t, r)}.
Function @Lid{luaL_unref} frees a reference and its associated object.

If the object at the top of the stack is @nil,
@Lid{luaL_ref} returns the constant @defid{LUA_REFNIL}.
The constant @defid{LUA_NOREF} is guaranteed to be different
from any reference returned by @Lid{luaL_ref}.

}

@APIEntry{
typedef struct luaL_Reg {
 const char *name;
 lua_CFunction func;
} luaL_Reg;
|

Type for arrays of functions to be registered by
@Lid{luaL_setfuncs}.
@id{name}
 is the function name and @id{func} is a pointer to
the function.
Any array of @Lid{luaL_Reg} must end with a sentinel entry
in which both @id{name} and @id{func} are @id{NULL}.

}

@APIEntry{
void luaL_requiref (lua_State *L, const char *modname,
                    lua_CFunction openf, int glb);|
```

@apii{0,1,e}

If @id{modname} is not already present in @Lid{package.loaded},
calls function @id{openf} with string @id{modname} as an argument
and sets the call result in @T{package.loaded[modname]},
as if that function has been called through @Lid{require}.

If @id{glb} is true,
also stores the module into global @id{modname}.

Leaves a copy of the module on the stack.

}

@APIEntry{void luaL_setfuncs (lua_State *L, const luaL_Reg *l, int nup);|
@apii{nup,0,m}

Registers all functions in the array @id{l}
@seeC{luaL_Reg} into the table on the top of the stack
(below optional upvalues, see next).

When @id{nup} is not zero,
all functions are created sharing @id{nup} upvalues,
which
 must be previously pushed on the stack
on top of the library table.
These values are popped from the stack after the registration.

}

@APIEntry{void luaL_setmetatable (lua_State *L, const char *tname);|
@apii{0,0,-}

Sets the metatable of the object at the top of the stack
as the metatable associated with name @id{tname}
in the registry @seeC{luaL_newmetatable}.

}

@APIEntry{
typedef struct luaL_Stream {
 FILE *f;
 lua_CFunction closef;
} luaL_Stream;
|

The standard representation for @x{file handles},
which is used by the standard I/O library.

A file handle is implemented as a full userdata,
with a metatable called @id{LUA_FILEHANDLE}
(where @id{LUA_FILEHANDLE} is a macro with the actual metatable's name).
The metatable is created by the I/O library
@seeF{luaL_newmetatable}.

This userdata must start with the structure @id{luaL_Stream};
it can contain other data after this initial structure.
Field @id{f} points to the corresponding C stream
(or it can be @id{NULL} to
 indicate an incompletely created handle).
Field @id{closef} points to a Lua function
that will be called to close the stream
when the handle is closed or collected;
this function receives the file handle as its sole argument and
must return either @Rw{true} (in case of success)
or @nil plus an error message (in case of error).
Once Lua calls this field,
it changes the field value to @id{NULL}
to signal that the handle is closed.

}

@APIEntry{void *luaL_testudata (lua_State *L, int arg, const char *tname);|
@apii{0,0,m}

This function works like @Lid{luaL_checkudata},
except that, when the test fails,
it returns @id{NULL} instead of raising an error.

}

@APIEntry{const char *luaL_tolstring (lua_State *L, int idx, size_t *len);|
@apii{0,1,e}

Converts any Lua value at the given index to a @N{C string}
in a reasonable format.
The resulting string is pushed onto the stack and also
returned by the function.
If @id{len} is not @id{NULL},
the function also sets @T{*len} with the string length.

If
 the value has a metatable with a @idx{__tostring} field,
then @id{luaL_tolstring} calls the corresponding metamethod
with the value as argument,
and uses the result of the call as its result.

```
}

@APIEntry{
void luaL_traceback (lua_State *L, lua_State *L1, const char *msg,
                     int level);|
@apii{0,1,m}

Creates and pushes a traceback of the stack @id{L1}.
If @id{msg} is not @id{NULL} it is appended
at the beginning of the traceback.
The @id{level} parameter tells at which level
to start the traceback.

}

@APIEntry{const char *luaL_typename (lua_State *L, int index);|
@apii{0,0,-}

Returns the name of the type of the value at the given index.

}

@APIEntry{void luaL_unref (lua_State *L, int t, int ref);|
@apii{0,0,-}

Releases reference @id{ref} from the table at index @id{t}
@seeC{luaL_ref}.
The entry is removed from the table,
so that the referred object can be collected.
The reference @id{ref} is also freed to be used again.

If @id{ref} is @Lid{LUA_NOREF} or
 @Lid{LUA_REFNIL},
@Lid{luaL_unref} does nothing.

}

@APIEntry{void luaL_where (lua_State *L, int lvl);|
@apii{0,1,m}

Pushes onto the stack a string identifying the current position
of the control at level @id{lvl} in the call stack.
Typically this string has the following format:
@verbatim{
@rep{chunkname}:@rep{currentline}:
}
@N{Level 0} is the running function,
```

@N{level 1} is the function that called the running function,
etc.

This function is used to build a prefix for error messages.

}

}

}

@C{----------}
@sect1{libraries| @title{Standard Libraries}

The standard Lua libraries provide useful functions
that are implemented directly through the @N{C API}.
Some of these functions provide essential services to the language
(e.g., @Lid{type} and @Lid{getmetatable});
others provide access to @Q{outside} services (e.g., I/O);
and others could be implemented in Lua itself,
but are quite useful or have critical performance
 requirements that
deserve an implementation in C (e.g., @Lid{table.sort}).

All libraries are implemented through the official @N{C API}
and are provided as separate @N{C modules}.
Currently, Lua has the following standard libraries:
@itemize{

@item{@link{predefined|basic library};}

@item{@link{corolib|coroutine library};}

@item{@link{packlib|package library};}

@item{@link{strlib|string manipulation};}

@item{@link{utf8|basic UTF-8 support};}

@item{@link{tablib|table manipulation};}

@item{@link{mathlib|mathematical functions} (sin, log, etc.);}

@item{@link{iolib|input and output};}

@item{@link{oslib|operating system facilities};}

@item{@link{debuglib|debug facilities}.}

}
Except for the basic and the package libraries,
each library provides all its functions as fields of a global table
or as methods of its objects.

To have access to these libraries,
the @N{C host} program should call the @Lid{luaL_openlibs} function,
which opens all standard libraries.
Alternatively,
the
 host program can open them individually by using
@Lid{luaL_requiref} to call
@defid{luaopen_base} (for the basic library),
@defid{luaopen_package} (for the package library),
@defid{luaopen_coroutine} (for the coroutine library),
@defid{luaopen_string} (for the string library),
@defid{luaopen_utf8} (for the UTF8 library),
@defid{luaopen_table} (for the table library),
@defid{luaopen_math} (for the mathematical library),
@defid{luaopen_io} (for the I/O library),
@defid{luaopen_os} (for the operating system library),
and @defid{luaopen_debug} (for the debug library).
These functions are declared in @defid{lualib.h}.

@sect2{predefined| @title{Basic Functions}

The basic library provides core functions to Lua.
If you do not include this library in your application,
you should check carefully whether you need to provide
implementations for some of its facilities.

@LibEntry{assert (v [, message])|

Calls @Lid{error} if
the value of its argument @id{v} is false (i.e., @nil or @false);
otherwise,
 returns all its arguments.
In case of error,
@id{message} is the error object;
when absent, it defaults to @St{assertion failed!}

}

@LibEntry{collectgarbage ([opt [, arg]])|

This function is a generic interface to the garbage collector.
It performs different functions according to its first argument, @id{opt}:
@description{

@item{@St{collect}|
performs a full garbage-collection cycle.
This is the default option.
}

@item{@St{stop}|
stops automatic execution of the garbage collector.
The collector will run only when explicitly invoked,
until a call to restart it.
}

@item{@St{restart}|
restarts automatic execution of the garbage collector.
}

@item{@St{count}|
returns the total memory in use by Lua in Kbytes.
The value has a fractional part,
so that it multiplied by 1024
gives the exact number of bytes in use by Lua
(except for overflows).
}

@item{@St{step}|
performs a garbage-collection step.
The step @Q{size} is controlled by @id{arg}.
With a zero value,
the collector will
 perform one basic (indivisible) step.
For non-zero values,
the collector will perform as if that amount of memory
(in KBytes) had been allocated by Lua.
Returns @Rw{true} if the step finished a collection cycle.
}

@item{@St{setpause}|
sets @id{arg} as the new value for the @emph{pause} of
the collector @see{GC}.
Returns the previous value for @emph{pause}.
}

@item{@St{setstepmul}|
sets @id{arg} as the new value for the @emph{step multiplier} of
the collector @see{GC}.

Returns the previous value for @emph{step}.
}

@item{@St{isrunning}|
returns a boolean that tells whether the collector is running
(i.e., not stopped).
}

}

}

@LibEntry{dofile ([filename])|
Opens the named file and executes its contents as a Lua chunk.
When called without arguments,
@id{dofile} executes the contents of the standard input (@id{stdin}).
Returns all values returned by the chunk.
In case of errors, @id{dofile} propagates the error
to its caller (that is, @id{dofile} does not run in protected mode).

}

@LibEntry{error
 (message [, level])|
Terminates the last protected function called
and returns @id{message} as the error object.
Function @id{error} never returns.

Usually, @id{error} adds some information about the error position
at the beginning of the message, if the message is a string.
The @id{level} argument specifies how to get the error position.
With @N{level 1} (the default), the error position is where the
@id{error} function was called.
@N{Level 2} points the error to where the function
that called @id{error} was called; and so on.
Passing a @N{level 0} avoids the addition of error position information
to the message.

}

@LibEntry{_G|
A global variable (not a function) that
holds the @x{global environment} @see{globalenv}.
Lua itself does not use this variable;
changing its value does not affect any environment,
nor vice versa.

}

@LibEntry{getmetatable (object)|

If @id{object} does not have a metatable, returns @nil.
Otherwise,
if the object's metatable has a @idx{__metatable}
 field,
returns the associated value.
Otherwise, returns the metatable of the given object.

}

@LibEntry{ipairs (t)|

Returns three values (an iterator function, the table @id{t}, and 0)
so that the construction
@verbatim{
for i,v in ipairs(t) do @rep{body} end
}
will iterate over the key@En{}value pairs
(@T{1,t[1]}), (@T{2,t[2]}), @ldots,
up to the first nil value.

}

@LibEntry{load (chunk [, chunkname [, mode [, env]]])|

Loads a chunk.

If @id{chunk} is a string, the chunk is this string.
If @id{chunk} is a function,
@id{load} calls it repeatedly to get the chunk pieces.
Each call to @id{chunk} must return a string that concatenates
with previous results.
A return of an empty string, @nil, or no value signals the end of the chunk.

If there are no syntactic errors,
returns the compiled chunk as a function;
otherwise, returns @nil plus the error message.

If the resulting function has upvalues,
the first upvalue is set to the value of @id{env},
if that parameter is given,
or
 to the value of the @x{global environment}.
Other upvalues are initialized with @nil.
(When you load a main chunk,
the resulting function will always have exactly one upvalue,

the @id{_ENV} variable @see{globalenv}.
However,
when you load a binary chunk created from a function @seeF{string.dump},
the resulting function can have an arbitrary number of upvalues.)
All upvalues are fresh, that is,
they are not shared with any other function.

@id{chunkname} is used as the name of the chunk for error messages
and debug information @see{debugI}.
When absent,
it defaults to @id{chunk}, if @id{chunk} is a string,
or to @St{=(load)} otherwise.

The string @id{mode} controls whether the chunk can be text or binary
(that is, a precompiled chunk).
It may be the string @St{b} (only @x{binary chunk}s),
@St{t} (only text chunks),
or @St{bt} (both binary and text).
The default is @St{bt}.

Lua does not check the consistency of binary chunks.
Maliciously crafted binary chunks can crash
the interpreter.

}

@LibEntry{loadfile
([filename [, mode [, env]]])|

Similar to @Lid{load},
but gets the chunk from file @id{filename}
or from the standard input,
if no file name is given.

}

@LibEntry{next (table [, index])|

Allows a program to traverse all fields of a table.
Its first argument is a table and its second argument
is an index in this table.
@id{next} returns the next index of the table
and its associated value.
When called with @nil as its second argument,
@id{next} returns an initial index
and its associated value.
When called with the last index,
or with @nil in an empty table,

@id{next} returns @nil.
If the second argument is absent, then it is interpreted as @nil.
In particular,
you can use @T{next(t)} to check whether a table is empty.

The order in which the indices are enumerated is not specified,
@emph{even for numeric indices}.
(To traverse a table in numerical order,
use a numerical @Rw{for}.)

The behavior of @id{next} is undefined if,
during the traversal,
you assign
 any value to a non-existent field in the table.
You may however modify existing fields.
In particular, you may clear existing fields.

}

@LibEntry{pairs (t)|

If @id{t} has a metamethod @idx{__pairs},
calls it with @id{t} as argument and returns the first three
results from the call.

Otherwise,
returns three values: the @Lid{next} function, the table @id{t}, and @nil,
so that the construction
@verbatim{
for k,v in pairs(t) do @rep{body} end
}
will iterate over all key@En{}value pairs of table @id{t}.

See function @Lid{next} for the caveats of modifying
the table during its traversal.

}

@LibEntry{pcall (f [, arg1, @Cdots])|

Calls function @id{f} with
the given arguments in @def{protected mode}.
This means that any error @N{inside @T{f}} is not propagated;
instead, @id{pcall} catches the error
and returns a status code.
Its first result is the status code (a boolean),
which is true if the call succeeds without errors.
In such case, @id{pcall} also returns all results from the call,

after
 this first result.
In case of any error, @id{pcall} returns @false plus the error message.

}

@LibEntry{print (@Cdots)|
Receives any number of arguments
and prints their values to @id{stdout},
using the @Lid{tostring} function to convert each argument to a string.
@id{print} is not intended for formatted output,
but only as a quick way to show a value,
for instance for debugging.
For complete control over the output,
use @Lid{string.format} and @Lid{io.write}.

}

@LibEntry{rawequal (v1, v2)|
Checks whether @id{v1} is equal to @id{v2},
without invoking the @idx{__eq} metamethod.
Returns a boolean.

}

@LibEntry{rawget (table, index)|
Gets the real value of @T{table[index]},
without invoking the @idx{__index} metamethod.
@id{table} must be a table;
@id{index} may be any value.

}

@LibEntry{rawlen (v)|
Returns the length of the object @id{v},
which must be a table or a string,
without invoking the @idx{__len} metamethod.
Returns an integer.

}

@LibEntry{rawset (table, index, value)|
Sets
 the real value of @T{table[index]} to @id{value},
without invoking the @idx{__newindex} metamethod.
@id{table} must be a table,
@id{index} any value different from @nil and @x{NaN},
and @id{value} any Lua value.

This function returns @id{table}.

}

@LibEntry{select (index, @Cdots)|

If @id{index} is a number,
returns all arguments after argument number @id{index};
a negative number indexes from the end (@num{-1} is the last argument).
Otherwise, @id{index} must be the string @T{"#"},
and @id{select} returns the total number of extra arguments it received.

}

@LibEntry{setmetatable (table, metatable)|

Sets the metatable for the given table.
(To change the metatable of other types from Lua code,
you must use the @link{debuglib|debug library}.)
If @id{metatable} is @nil,
removes the metatable of the given table.
If the original metatable has a @idx{__metatable} field,
raises an error.

This function returns @id{table}.

}

@LibEntry{tonumber (e [, base])|

When called with
 no @id{base},
@id{tonumber} tries to convert its argument to a number.
If the argument is already a number or
a string convertible to a number,
then @id{tonumber} returns this number;
otherwise, it returns @nil.

The conversion of strings can result in integers or floats,
according to the lexical conventions of Lua @see{lexical}.
(The string may have leading and trailing spaces and a sign.)

When called with @id{base},
then @id{e} must be a string to be interpreted as
an integer numeral in that base.
The base may be any integer between 2 and 36, inclusive.
In bases @N{above 10}, the letter @Char{A} (in either upper or lower case)

@N{represents 10}, @Char{B} @N{represents 11}, and so forth,
with @Char{Z} representing 35.
If the string @id{e} is not a valid numeral in the given base,
the function returns @nil.

}

@LibEntry{tostring (v)|
Receives a value of any type and
converts it to a string in a human-readable format.
(For complete control of how numbers are converted,
use @Lid{string.format}.)

If
 the metatable of @id{v} has a @idx{__tostring} field,
then @id{tostring} calls the corresponding value
with @id{v} as argument,
and uses the result of the call as its result.

}

@LibEntry{type (v)|
Returns the type of its only argument, coded as a string.
The possible results of this function are
@St{nil} (a string, not the value @nil),
@St{number},
@St{string},
@St{boolean},
@St{table},
@St{function},
@St{thread},
and @St{userdata}.

}

@LibEntry{_VERSION|

A global variable (not a function) that
holds a string containing the running Lua version.
The current value of this variable is @St{Lua 5.3}.

}

@LibEntry{xpcall (f, msgh [, arg1, @Cdots])|

This function is similar to @Lid{pcall},
except that it sets a new @x{message handler} @id{msgh}.

}

}

@sect2{corolib| @title{Coroutine Manipulation}

This library comprises the operations to manipulate coroutines,
which come inside the table @defid{coroutine}.
See @See{coroutine} for a general description of coroutines.

@LibEntry{coroutine.create
(f)|

Creates a new coroutine, with body @id{f}.
@id{f} must be a function.
Returns this new coroutine,
an object with type @T{"thread"}.

}

@LibEntry{coroutine.isyieldable ()|

Returns true when the running coroutine can yield.

A running coroutine is yieldable if it is not the main thread and
it is not inside a non-yieldable @N{C function}.

}

@LibEntry{coroutine.resume (co [, val1, @Cdots])|

Starts or continues the execution of coroutine @id{co}.
The first time you resume a coroutine,
it starts running its body.
The values @id{val1}, @ldots are passed
as the arguments to the body function.
If the coroutine has yielded,
@id{resume} restarts it;
the values @id{val1}, @ldots are passed
as the results from the yield.

If the coroutine runs without any errors,
@id{resume} returns @true plus any values passed to @id{yield}
(when the coroutine yields) or any values returned by the body function
(when the coroutine terminates).
If there is any error,
@id{resume}

returns @false plus the error message.

}

@LibEntry{coroutine.running ()|

Returns the running coroutine plus a boolean,
true when the running coroutine is the main one.

}

@LibEntry{coroutine.status (co)|

Returns the status of coroutine @id{co}, as a string:
@T{"running"},
if the coroutine is running (that is, it called @id{status});
@T{"suspended"}, if the coroutine is suspended in a call to @id{yield},
or if it has not started running yet;
@T{"normal"} if the coroutine is active but not running
(that is, it has resumed another coroutine);
and @T{"dead"} if the coroutine has finished its body function,
or if it has stopped with an error.

}

@LibEntry{coroutine.wrap (f)|

Creates a new coroutine, with body @id{f}.
@id{f} must be a function.
Returns a function that resumes the coroutine each time it is called.
Any arguments passed to the function behave as the
extra arguments to @id{resume}.
Returns the same values returned by @id{resume},
except the first boolean.
In case of error,
propagates the error.

}

@LibEntry{coroutine.yield (@Cdots)|

Suspends the execution of the calling coroutine.
Any arguments to @id{yield} are passed as extra results to @id{resume}.

}

}

@sect2{packlib| @title{Modules}

The package library provides basic
facilities for loading modules in Lua.
It exports one function directly in the global environment:
@Lid{require}.
Everything else is exported in a table @defid{package}.

@LibEntry{require (modname)|

Loads the given module.
The function starts by looking into the @Lid{package.loaded} table
to determine whether @id{modname} is already loaded.
If it is, then @id{require} returns the value stored
at @T{package.loaded[modname]}.
Otherwise, it tries to find a @emph{loader} for the module.

To find a loader,
@id{require} is guided by the @Lid{package.searchers} sequence.
By changing this sequence,
we can change how @id{require} looks for a module.
The following explanation is based on the default configuration
for @Lid{package.searchers}.

First
 @id{require} queries @T{package.preload[modname]}.
If it has a value,
this value (which must be a function) is the loader.
Otherwise @id{require} searches for a Lua loader using the
path stored in @Lid{package.path}.
If that also fails, it searches for a @N{C loader} using the
path stored in @Lid{package.cpath}.
If that also fails,
it tries an @emph{all-in-one} loader @seeF{package.searchers}.

Once a loader is found,
@id{require} calls the loader with two arguments:
@id{modname} and an extra value dependent on how it got the loader.
(If the loader came from a file,
this extra value is the file name.)
If the loader returns any non-nil value,
@id{require} assigns the returned value to @T{package.loaded[modname]}.
If the loader does not return a non-nil value and
has not assigned any value to @T{package.loaded[modname]},
then @id{require} assigns @Rw{true} to this entry.
In any case, @id{require} returns the
final value of @T{package.loaded[modname]}.

If there is any error
 loading or running the module,
or if it cannot find any loader for the module,
then @id{require} raises an error.

}

@LibEntry{package.config|

A string describing some compile-time configurations for packages.
This string is a sequence of lines:
@itemize{

@item{The first line is the @x{directory separator} string.
Default is @Char{\} for @x{Windows} and @Char{/} for all other systems.}

@item{The second line is the character that separates templates in a path.
Default is @Char{;}.}

@item{The third line is the string that marks the
substitution points in a template.
Default is @Char{?}.}

@item{The fourth line is a string that, in a path in @x{Windows},
is replaced by the executable's directory.
Default is @Char{!}.}

@item{The fifth line is a mark to ignore all text after it
when building the @id{luaopen_} function name.
Default is @Char{-}.}

}

}

@LibEntry{package.cpath|

The path used by @Lid{require} to search for a @N{C loader}.

Lua initializes the @N{C path} @Lid{package.cpath}
 in the same way
it initializes the Lua path @Lid{package.path},
using the environment variable @defid{LUA_CPATH_5_3},
or the environment variable @defid{LUA_CPATH},
or a default path defined in @id{luaconf.h}.

}

@LibEntry{package.loaded|

A table used by @Lid{require} to control which
modules are already loaded.
When you require a module @id{modname} and
@T{package.loaded[modname]} is not false,
@Lid{require} simply returns the value stored there.

This variable is only a reference to the real table;
assignments to this variable do not change the
table used by @Lid{require}.

}

@LibEntry{package.loadlib (libname, funcname)|

Dynamically links the host program with the @N{C library} @id{libname}.

If @id{funcname} is @St{*},
then it only links with the library,
making the symbols exported by the library
available to other dynamically linked libraries.
Otherwise,
it looks for a function @id{funcname} inside the library
and returns this function as a @N{C function}.
So, @id{funcname}
 must follow the @Lid{lua_CFunction} prototype
@seeC{lua_CFunction}.

This is a low-level function.
It completely bypasses the package and module system.
Unlike @Lid{require},
it does not perform any path searching and
does not automatically adds extensions.
@id{libname} must be the complete file name of the @N{C library},
including if necessary a path and an extension.
@id{funcname} must be the exact name exported by the @N{C library}
(which may depend on the @N{C compiler} and linker used).

This function is not supported by @N{Standard C}.
As such, it is only available on some platforms
(Windows, Linux, Mac OS X, Solaris, BSD,
plus other Unix systems that support the @id{dlfcn} standard).

}

@LibEntry{package.path|

The path used by @Lid{require} to search for a Lua loader.

At start-up, Lua initializes this variable with
the value of the environment variable @defid{LUA_PATH_5_3} or
the environment variable @defid{LUA_PATH} or
with a default path defined in @id{luaconf.h},
if those
environment variables are not defined.
Any @St{;;} in the value of the environment variable
is replaced by the default path.

}

@LibEntry{package.preload|

A table to store loaders for specific modules
@seeF{require}.

This variable is only a reference to the real table;
assignments to this variable do not change the
table used by @Lid{require}.

}

@LibEntry{package.searchers|

A table used by @Lid{require} to control how to load modules.

Each entry in this table is a @def{searcher function}.
When looking for a module,
@Lid{require} calls each of these searchers in ascending order,
with the module name (the argument given to @Lid{require}) as its
sole parameter.
The function can return another function (the module @def{loader})
plus an extra value that will be passed to that loader,
or a string explaining why it did not find that module
(or @nil if it has nothing to say).

Lua initializes this table with four searcher functions.

The first searcher simply looks for a loader in
the
@Lid{package.preload} table.

The second searcher looks for a loader as a Lua library,
using the path stored at @Lid{package.path}.
The search is done as described in function @Lid{package.searchpath}.

The third searcher looks for a loader as a @N{C library},
using the path given by the variable @Lid{package.cpath}.
Again,
the search is done as described in function @Lid{package.searchpath}.
For instance,
if the @N{C path} is the string
@verbatim{
"./?.so;./?.dll;/usr/local/?/init.so"
}
the searcher for module @id{foo}
will try to open the files @T{./foo.so}, @T{./foo.dll},
and @T{/usr/local/foo/init.so}, in that order.
Once it finds a @N{C library},
this searcher first uses a dynamic link facility to link the
application with the library.
Then it tries to find a @N{C function} inside the library to
be used as the loader.
The name of this @N{C function} is the string @St{luaopen_}
concatenated with a copy of the module name where each dot
is replaced by an underscore.
Moreover, if
 the module name has a hyphen,
its suffix after (and including) the first hyphen is removed.
For instance, if the module name is @id{a.b.c-v2.1},
the function name will be @id{luaopen_a_b_c}.

The fourth searcher tries an @def{all-in-one loader}.
It searches the @N{C path} for a library for
the root name of the given module.
For instance, when requiring @id{a.b.c},
it will search for a @N{C library} for @id{a}.
If found, it looks into it for an open function for
the submodule;
in our example, that would be @id{luaopen_a_b_c}.
With this facility, a package can pack several @N{C submodules}
into one single library,
with each submodule keeping its original open function.

All searchers except the first one (preload) return as the extra value
the file name where the module was found,
as returned by @Lid{package.searchpath}.
The first searcher returns no extra value.

}

@LibEntry{package.searchpath (name, path [, sep [, rep]])|

Searches for the given @id{name} in the given @id{path}.

A path
 is a string containing a sequence of
@emph{templates} separated by semicolons.
For each template,
the function replaces each interrogation mark (if any)
in the template with a copy of @id{name}
wherein all occurrences of @id{sep}
(a dot, by default)
were replaced by @id{rep}
(the system's directory separator, by default),
and then tries to open the resulting file name.

For instance, if the path is the string
@verbatim{
"./?.lua;./?.lc;/usr/local/?/init.lua"
}
the search for the name @id{foo.a}
will try to open the files
@T{./foo/a.lua}, @T{./foo/a.lc}, and
@T{/usr/local/foo/a/init.lua}, in that order.

Returns the resulting name of the first file that it can
open in read mode (after closing the file),
or @nil plus an error message if none succeeds.
(This error message lists all file names it tried to open.)

}

}

@sect2{strlib| @title{String Manipulation}

This library provides generic functions for string manipulation,
such as finding and extracting substrings, and pattern matching.
When
 indexing a string in Lua, the first character is at @N{position 1}
(not @N{at 0}, as in C).
Indices are allowed to be negative and are interpreted as indexing backwards,
from the end of the string.
Thus, the last character is at position @num{-1}, and so on.

The string library provides all its functions inside the table
@defid{string}.
It also sets a @x{metatable for strings}
where the @idx{__index} field points to the @id{string} table.
Therefore, you can use the string functions in object-oriented style.

For instance, @T{string.byte(s,i)}
can be written as @T{s:byte(i)}.

The string library assumes one-byte character encodings.

@LibEntry{string.byte (s [, i [, j]])|
Returns the internal numeric codes of the characters @T{s[i]},
@T{s[i+1]}, @ldots, @T{s[j]}.
The default value for @id{i} @N{is 1};
the default value for @id{j} @N{is @id{i}}.
These indices are corrected
following the same rules of function @Lid{string.sub}.

Numeric codes are not necessarily portable across
platforms.

}

@LibEntry{string.char (@Cdots)|
Receives zero or more integers.
Returns a string with length equal to the number of arguments,
in which each character has the internal numeric code equal
to its corresponding argument.

Numeric codes are not necessarily portable across platforms.

}

@LibEntry{string.dump (function [, strip])|

Returns a string containing a binary representation
(a @emph{binary chunk})
of the given function,
so that a later @Lid{load} on this string returns
a copy of the function (but with new upvalues).
If @id{strip} is a true value,
the binary representation may not include all debug information
about the function,
to save space.

Functions with upvalues have only their number of upvalues saved.
When (re)loaded,
those upvalues receive fresh instances containing @nil.
(You can use the debug library to serialize
and reload the upvalues of a function
in a way adequate to your needs.)

}

@LibEntry{string.find (s, pattern [, init [, plain]])|

Looks for the
first match of
@id{pattern} @see{pm} in the string @id{s}.
If it finds a match, then @id{find} returns the indices @N{of @T{s}}
where this occurrence starts and ends;
otherwise, it returns @nil.
A third, optional numeric argument @id{init} specifies
where to start the search;
its default value @N{is 1} and can be negative.
A value of @true as a fourth, optional argument @id{plain}
turns off the pattern matching facilities,
so the function does a plain @Q{find substring} operation,
with no characters in @id{pattern} being considered magic.
Note that if @id{plain} is given, then @id{init} must be given as well.

If the pattern has captures,
then in a successful match
the captured values are also returned,
after the two indices.

}

@LibEntry{string.format (formatstring, @Cdots)|

Returns a formatted version of its variable number of arguments
following the description given in its first argument (which must be a string).
The format string follows the same rules as the @ANSI{sprintf}.
The
only differences are that the options/modifiers
@T{*}, @id{h}, @id{L}, @id{l}, @id{n},
and @id{p} are not supported
and that there is an extra option, @id{q}.

The @id{q} option formats a string between double quotes,
using escape sequences when necessary to ensure that
it can safely be read back by the Lua interpreter.
For instance, the call
@verbatim{
string.format('%q', 'a string with "quotes" and \n new line')
}
may produce the string:
@verbatim{
"a string with \"quotes\" and \
new line"

}

Options
@id{A}, @id{a}, @id{E}, @id{e}, @id{f},
@id{G}, and @id{g} all expect a number as argument.
Options @id{c}, @id{d},
@id{i}, @id{o}, @id{u}, @id{X}, and @id{x}
expect an integer.
When Lua is compiled with a C89 compiler,
options @id{A} and @id{a} (hexadecimal floats)
do not support any modifier (flags, width, length).

Option @id{s} expects a string;
if its argument is not a string,
it is converted to one following the same rules of @Lid{tostring}.
If the option has any modifier (flags,
 width, length),
the string argument should not contain @x{embedded zeros}.

}

@LibEntry{string.gmatch (s, pattern)|
Returns an iterator function that,
each time it is called,
returns the next captures from @id{pattern} @see{pm}
over the string @id{s}.
If @id{pattern} specifies no captures,
then the whole match is produced in each call.

As an example, the following loop
will iterate over all the words from string @id{s},
printing one per line:
@verbatim{
s = "hello world from Lua"
for w in string.gmatch(s, "%a+") do
 print(w)
end
}
The next example collects all pairs @T{key=value} from the
given string into a table:
@verbatim{
t = {}
s = "from=world, to=Lua"
for k, v in string.gmatch(s, "(%w+)=(%w+)") do
 t[k] = v
end
}

For this function, a caret @Char{^} at the start of a pattern does not
work as an anchor, as this would prevent the iteration.

}

@LibEntry{string.gsub (s, pattern, repl [, n])|
Returns a copy of @id{s}
in which all (or the first @id{n}, if given)
occurrences of
 the @id{pattern} @see{pm} have been
replaced by a replacement string specified by @id{repl},
which can be a string, a table, or a function.
@id{gsub} also returns, as its second value,
the total number of matches that occurred.
The name @id{gsub} comes from @emph{Global SUBstitution}.

If @id{repl} is a string, then its value is used for replacement.
The @N{character @T{%}} works as an escape character:
any sequence in @id{repl} of the form @T{%@rep{d}},
with @rep{d} between 1 and 9,
stands for the value of the @rep{d}-th captured substring.
The sequence @T{%0} stands for the whole match.
The sequence @T{%%} stands for a @N{single @T{%}}.

If @id{repl} is a table, then the table is queried for every match,
using the first capture as the key.

If @id{repl} is a function, then this function is called every time a
match occurs, with all captured substrings passed as arguments,
in order.

In any case,
if the pattern specifies no captures,
then it behaves as if the whole pattern was inside
 a capture.

If the value returned by the table query or by the function call
is a string or a number,
then it is used as the replacement string;
otherwise, if it is @Rw{false} or @nil,
then there is no replacement
(that is, the original match is kept in the string).

Here are some examples:
@verbatim{
x = string.gsub("hello world", "(%w+)", "%1 %1")
--> x="hello hello world world"

```
x = string.gsub("hello world", "%w+", "%0 %0", 1)
--> x="hello hello world"

x = string.gsub("hello world from Lua", "(%w+)%s*(%w+)", "%2 %1")
--> x="world hello Lua from"

x = string.gsub("home = $HOME, user = $USER", "%$(%w+)", os.getenv)
--> x="home = /home/roberto, user = roberto"

x = string.gsub("4+5 = $return 4+5$", "%$(.-)%$", function (s)
     return load(s)()
   end)
--> x="4+5 = 9"

local t = {name="lua", version="5.3"}
x = string.gsub("$name-$version.tar.gz", "%$(%w+)", t)
--> x="lua-5.3.tar.gz"
}

}

@LibEntry{string.len (s)|
Receives a string and returns its length.
The empty string @T{""} has
 length 0.
Embedded zeros are counted,
so @T{"a\000bc\000"} has length 5.

}

@LibEntry{string.lower (s)|
Receives a string and returns a copy of this string with all
uppercase letters changed to lowercase.
All other characters are left unchanged.
The definition of what an uppercase letter is depends on the current locale.

}

@LibEntry{string.match (s, pattern [, init])|
Looks for the first @emph{match} of
@id{pattern} @see{pm} in the string @id{s}.
If it finds one, then @id{match} returns
the captures from the pattern;
otherwise it returns @nil.
If @id{pattern} specifies no captures,
then the whole match is returned.
A third, optional numeric argument @id{init} specifies
where to start the search;
```

its default value @N{is 1} and can be negative.

}

@LibEntry{string.pack (fmt, v1, v2, @Cdots)|

Returns a binary string containing the values @id{v1}, @id{v2}, etc.
packed (that is, serialized in binary form)
according to the format string @id{fmt} @see{pack}.

}

@LibEntry{string.packsize
(fmt)|

Returns the size of a string resulting from @Lid{string.pack}
with the given format.
The format string cannot have the variable-length options
@Char{s} or @Char{z} @see{pack}.

}

@LibEntry{string.rep (s, n [, sep])|
Returns a string that is the concatenation of @id{n} copies of
the string @id{s} separated by the string @id{sep}.
The default value for @id{sep} is the empty string
(that is, no separator).
Returns the empty string if @id{n} is not positive.

(Note that it is very easy to exhaust the memory of your machine
with a single call to this function.)

}

@LibEntry{string.reverse (s)|
Returns a string that is the string @id{s} reversed.

}

@LibEntry{string.sub (s, i [, j])|
Returns the substring of @id{s} that
starts at @id{i} and continues until @id{j};
@id{i} and @id{j} can be negative.
If @id{j} is absent, then it is assumed to be equal to @num{-1}
(which is the same as the string length).
In particular,
the call @T{string.sub(s,1,j)} returns a prefix of @id{s}
with

length @id{j},
and @T{string.sub(s, -i)} (for a positive @id{i})
returns a suffix of @id{s}
with length @id{i}.

If, after the translation of negative indices,
@id{i} is less than 1,
it is corrected to 1.
If @id{j} is greater than the string length,
it is corrected to that length.
If, after these corrections,
@id{i} is greater than @id{j},
the function returns the empty string.

}

@LibEntry{string.unpack (fmt, s [, pos])|

Returns the values packed in string @id{s} @seeF{string.pack}
according to the format string @id{fmt} @see{pack}.
An optional @id{pos} marks where
to start reading in @id{s} (default is 1).
After the read values,
this function also returns the index of the first unread byte in @id{s}.

}

@LibEntry{string.upper (s)|
Receives a string and returns a copy of this string with all
lowercase letters changed to uppercase.
All other characters are left unchanged.
The definition of what a lowercase letter is depends on the current locale.

}

@sect3{pm| @title{Patterns}

Patterns
in Lua are described by regular strings,
which are interpreted as patterns by the pattern-matching functions
@Lid{string.find},
@Lid{string.gmatch},
@Lid{string.gsub},
and @Lid{string.match}.
This section describes the syntax and the meaning
(that is, what they match) of these strings.

@sect4{@title{Character Class:}
A @def{character class} is used to represent a set of characters.
The following combinations are allowed in describing a character class:
@description{

@item{@rep{x}|
(where @rep{x} is not one of the @emphx{magic characters}
@T{^$()%.[]*+-?})
represents the character @emph{x} itself.
}

@item{@T{.}| (a dot) represents all characters.}

@item{@T{%a}| represents all letters.}

@item{@T{%c}| represents all control characters.}

@item{@T{%d}| represents all digits.}

@item{@T{%g}| represents all printable characters except space.}

@item{@T{%l}| represents all lowercase letters.}

@item{@T{%p}| represents all punctuation characters.}

@item{@T{%s}| represents all space
characters.}

@item{@T{%u}| represents all uppercase letters.}

@item{@T{%w}| represents all alphanumeric characters.}

@item{@T{%x}| represents all hexadecimal digits.}

@item{@T{%@rep{x}}| (where @rep{x} is any non-alphanumeric character)
represents the character @rep{x}.
This is the standard way to escape the magic characters.
Any non-alphanumeric character
(including all punctuation characters, even the non-magical)
can be preceded by a @Char{%}
when used to represent itself in a pattern.
}

@item{@T{[@rep{set}]}|
represents the class which is the union of all
characters in @rep{set}.
A range of characters can be specified by
separating the end characters of the range,

in ascending order, with a @Char{-}.
All classes @T{%}@emph{x} described above can also be used as
components in @rep{set}.
All other characters in @rep{set} represent themselves.
For example, @T{[%w_]} (or @T{[_%w]})
represents all alphanumeric characters plus the underscore,
@T{[0-7]} represents the octal digits,
and
 @T{[0-7%l%-]} represents the octal digits plus
the lowercase letters plus the @Char{-} character.

You can put a closing square bracket in a set
by positioning it as the first character in the set.
You can put a hyphen in a set
by positioning it as the first or the last character in the set.
(You can also use an escape for both cases.)

The interaction between ranges and classes is not defined.
Therefore, patterns like @T{[%a-z]} or @T{[a-%%]}
have no meaning.
}

@item{@T{[^@rep{set}]}|
represents the complement of @rep{set},
where @rep{set} is interpreted as above.
}

}
For all classes represented by single letters (@T{%a}, @T{%c}, etc.),
the corresponding uppercase letter represents the complement of the class.
For instance, @T{%S} represents all non-space characters.

The definitions of letter, space, and other character groups
depend on the current locale.
In particular, the class @T{[a-z]} may not be equivalent to @T{%l}.

}

@sect4{@title{Pattern Item:}
A @def{pattern item}
 can be
@itemize{

@item{
a single character class,
which matches any single character in the class;
}

@item{
a single character class followed by @Char{*},
which matches zero or more repetitions of characters in the class.
These repetition items will always match the longest possible sequence;
}

@item{
a single character class followed by @Char{+},
which matches one or more repetitions of characters in the class.
These repetition items will always match the longest possible sequence;
}

@item{
a single character class followed by @Char{-},
which also matches zero or more repetitions of characters in the class.
Unlike @Char{*},
these repetition items will always match the shortest possible sequence;
}

@item{
a single character class followed by @Char{?},
which matches zero or one occurrence of a character in the class.
It always matches one occurrence if possible;
}

@item{
@T{%@rep{n}}, for @rep{n} between 1 and 9;
such item matches a substring equal to the @rep{n}-th captured string
(see
 below);
}

@item{
@T{%b@rep{xy}}, where @rep{x} and @rep{y} are two distinct characters;
such item matches strings that start @N{with @rep{x}}, end @N{with @rep{y}},
and where the @rep{x} and @rep{y} are @emph{balanced}.
This means that, if one reads the string from left to right,
counting @M{+1} for an @rep{x} and @M{-1} for a @rep{y},
the ending @rep{y} is the first @rep{y} where the count reaches 0.
For instance, the item @T{%b()} matches expressions with
balanced parentheses.
}

@item{
@T{%f[@rep{set}]}, a @def{frontier pattern};
such item matches an empty string at any position such that
the next character belongs to @rep{set}
and the previous character does not belong to @rep{set}.

The set @rep{set} is interpreted as previously described.
The beginning and the end of the subject are handled as if
they were the character @Char{\0}.
}

}

}

@sect4{@title{Pattern:}
A @def{pattern} is a sequence of pattern items.
A caret @Char{^} at the beginning of a pattern anchors the match
 at the
beginning of the subject string.
A @Char{$} at the end of a pattern anchors the match at the
end of the subject string.
At other positions,
@Char{^} and @Char{$} have no special meaning and represent themselves.

}

@sect4{@title{Captures:}
A pattern can contain sub-patterns enclosed in parentheses;
they describe @def{captures}.
When a match succeeds, the substrings of the subject string
that match captures are stored (@emph{captured}) for future use.
Captures are numbered according to their left parentheses.
For instance, in the pattern @T{"(a*(.)%w(%s*))"},
the part of the string matching @T{"a*(.)%w(%s*)"} is
stored as the first capture (and therefore has @N{number 1});
the character matching @St{.} is captured with @N{number 2},
and the part matching @St{%s*} has @N{number 3}.

As a special case, the empty capture @T{()} captures
the current string position (a number).
For instance, if we apply the pattern @T{"()aa()"} on the
string @T{"flaaap"}, there will be two captures:
 @N{3 and 5}.

}

}

@sect3{pack| @title{Format Strings for Pack and Unpack}

The first argument to @Lid{string.pack},
@Lid{string.packsize}, and @Lid{string.unpack}

is a format string,
which describes the layout of the structure being created or read.

A format string is a sequence of conversion options.
The conversion options are as follows:
@description{
@item{@T{<}|sets little endian}
@item{@T{>}|sets big endian}
@item{@T{=}|sets native endian}
@item{@T{![@rep{n}]}|sets maximum alignment to @id{n}
(default is native alignment)}
@item{@T{b}|a signed byte (@id{char})}
@item{@T{B}|an unsigned byte (@id{char})}
@item{@T{h}|a signed @id{short} (native size)}
@item{@T{H}|an unsigned @id{short} (native size)}
@item{@T{l}|a signed @id{long} (native size)}
@item{@T{L}|an unsigned @id{long} (native size)}
@item{@T{j}|a @id{lua_Integer}}
@item{@T{J}|a @id{lua_Unsigned}}
@item{@T{T}|a @id{size_t} (native size)}
@item{@T{i[@rep{n}]}|a signed @id{int} with @id{n} bytes
(default is native size)}
@item{@T{I[@rep{n}]}|an
 unsigned @id{int} with @id{n} bytes
(default is native size)}
@item{@T{f}|a @id{float} (native size)}
@item{@T{d}|a @id{double} (native size)}
@item{@T{n}|a @id{lua_Number}}
@item{@T{c@rep{n}}|a fixed-sized string with @id{n} bytes}
@item{@T{z}|a zero-terminated string}
@item{@T{s[@emph{n}]}|a string preceded by its length
coded as an unsigned integer with @id{n} bytes
(default is a @id{size_t})}
@item{@T{x}|one byte of padding}
@item{@T{X@rep{op}}|an empty item that aligns
according to option @id{op}
(which is otherwise ignored)}
@item{@Char{ }|(empty space) ignored}
}
(A @St{[@rep{n}]} means an optional integral numeral.)
Except for padding, spaces, and configurations
(options @St{xX <=>!}),
each option corresponds to an argument (in @Lid{string.pack})
or a result (in @Lid{string.unpack}).

For options @St{!@rep{n}}, @St{s@rep{n}}, @St{i@rep{n}}, and @St{I@rep{n}},
@id{n} can be any integer between 1 and 16.
All integral options check overflows;

@Lid{string.pack}
checks whether the given value fits in the given size;
@Lid{string.unpack} checks whether the read value fits in a Lua integer.

Any format string starts as if prefixed by @St{!1=},
that is,
with maximum alignment of 1 (no alignment)
and native endianness.

Alignment works as follows:
For each option,
the format gets extra padding until the data starts
at an offset that is a multiple of the minimum between the
option size and the maximum alignment;
this minimum must be a power of 2.
Options @St{c} and @St{z} are not aligned;
option @St{s} follows the alignment of its starting integer.

All padding is filled with zeros by @Lid{string.pack}
(and ignored by @Lid{string.unpack}).

}

}

@sect2{utf8| @title{UTF-8 Support}

This library provides basic support for @x{UTF-8} encoding.
It provides all its functions inside the table @defid{utf8}.
This library does not provide any support for @x{Unicode} other
than the handling of the encoding.
Any operation that needs the meaning of a character,
such
as character classification, is outside its scope.

Unless stated otherwise,
all functions that expect a byte position as a parameter
assume that the given position is either the start of a byte sequence
or one plus the length of the subject string.
As in the string library,
negative indices count from the end of the string.

@LibEntry{utf8.char (@Cdots)|
Receives zero or more integers,
converts each one to its corresponding UTF-8 byte sequence
and returns a string with the concatenation of all these sequences.

}

@LibEntry{utf8.charpattern|
The pattern (a string, not a function) @St{[\0-\x7F\xC2-\xF4][\x80-\xBF]*}
@see{pm},
which matches exactly one UTF-8 byte sequence,
assuming that the subject is a valid UTF-8 string.

}

@LibEntry{utf8.codes (s)|

Returns values so that the construction
@verbatim{
for p, c in utf8.codes(s) do @rep{body} end
}
will iterate over all characters in string @id{s},
with @id{p} being the position (in bytes) and @id{c} the code point
of each
character.
It raises an error if it meets any invalid byte sequence.

}

@LibEntry{utf8.codepoint (s [, i [, j]])|
Returns the codepoints (as integers) from all characters in @id{s}
that start between byte position @id{i} and @id{j} (both included).
The default for @id{i} is 1 and for @id{j} is @id{i}.
It raises an error if it meets any invalid byte sequence.

}

@LibEntry{utf8.len (s [, i [, j]])|
Returns the number of UTF-8 characters in string @id{s}
that start between positions @id{i} and @id{j} (both inclusive).
The default for @id{i} is @num{1} and for @id{j} is @num{-1}.
If it finds any invalid byte sequence,
returns a false value plus the position of the first invalid byte.

}

@LibEntry{utf8.offset (s, n [, i])|
Returns the position (in bytes) where the encoding of the
@id{n}-th character of @id{s}
(counting from position @id{i}) starts.
A negative @id{n} gets characters before position @id{i}.
The default for @id{i} is 1 when @id{n} is non-negative
and @T{#s + 1} otherwise,

so
that @T{utf8.offset(s, -n)} gets the offset of the
@id{n}-th character from the end of the string.
If the specified character is neither in the subject
nor right after its end,
the function returns @nil.

As a special case,
when @id{n} is 0 the function returns the start of the encoding
of the character that contains the @id{i}-th byte of @id{s}.

This function assumes that @id{s} is a valid UTF-8 string.

}

}

@sect2{tablib| @title{Table Manipulation}

This library provides generic functions for table manipulation.
It provides all its functions inside the table @defid{table}.

Remember that, whenever an operation needs the length of a table,
all caveats about the length operator apply @see{len-op}.
All functions ignore non-numeric keys
in the tables given as arguments.

@LibEntry{table.concat (list [, sep [, i [, j]]])|

Given a list where all elements are strings or numbers,
returns the string @T{list[i]..sep..list[i+1] @Cdots sep..list[j]}.
The default value for @id{sep} is the
empty string,
the default for @id{i} is 1,
and the default for @id{j} is @T{#list}.
If @id{i} is greater than @id{j}, returns the empty string.

}

@LibEntry{table.insert (list, [pos,] value)|

Inserts element @id{value} at position @id{pos} in @id{list},
shifting up the elements
@T{list[pos], list[pos+1], @Cdots, list[#list]}.
The default value for @id{pos} is @T{#list+1},
so that a call @T{table.insert(t,x)} inserts @id{x} at the end
of list @id{t}.

}

@LibEntry{table.move (a1, f, e, t [,a2])|

Moves elements from table @id{a1} to table @id{a2},
performing the equivalent to the following
multiple assignment:
@T{a2[t],@Cdots = a1[f],@Cdots,a1[e]}.
The default for @id{a2} is @id{a1}.
The destination range can overlap with the source range.
The number of elements to be moved must fit in a Lua integer.

Returns the destination table @id{a2}.

}

@LibEntry{table.pack (@Cdots)|

Returns a new table with all arguments stored into keys 1, 2, etc.
and with a field @St{n} with the total number
 of arguments.
Note that the resulting table may not be a sequence.

}

@LibEntry{table.remove (list [, pos])|

Removes from @id{list} the element at position @id{pos},
returning the value of the removed element.
When @id{pos} is an integer between 1 and @T{#list},
it shifts down the elements
@T{list[pos+1], list[pos+2], @Cdots, list[#list]}
and erases element @T{list[#list]};
The index @id{pos} can also be 0 when @T{#list} is 0,
or @T{#list + 1};
in those cases, the function erases the element @T{list[pos]}.

The default value for @id{pos} is @T{#list},
so that a call @T{table.remove(l)} removes the last element
of list @id{l}.

}

@LibEntry{table.sort (list [, comp])|

Sorts list elements in a given order, @emph{in-place},
from @T{list[1]} to @T{list[#list]}.

If @id{comp} is given,
then it must be a function that receives two list elements
and returns true when the first element must come
before the second in the final order
(so that, after the sort,
@T{i < j} implies @T{not comp(list[j],list[i])}).
If
 @id{comp} is not given,
then the standard Lua operator @T{<} is used instead.

Note that the @id{comp} function must define
a strict partial order over the elements in the list;
that is, it must be asymmetric and transitive.
Otherwise, no valid sort may be possible.

The sort algorithm is not stable:
elements considered equal by the given order
may have their relative positions changed by the sort.

}

@LibEntry{table.unpack (list [, i [, j]])|

Returns the elements from the given list.
This function is equivalent to
@verbatim{
return list[i], list[i+1], @Cdots, list[j]
}
By default, @id{i} @N{is 1} and @id{j} is @T{#list}.

}

}

@sect2{mathlib| @title{Mathematical Functions}

This library provides basic mathematical functions.
It provides all its functions and constants inside the table @defid{math}.
Functions with the annotation @St{integer/float} give
integer results for integer arguments
and float results for float (or mixed) arguments.
Rounding functions
(@Lid{math.ceil},
 @Lid{math.floor}, and @Lid{math.modf})
return an integer when the result fits in the range of an integer,
or a float otherwise.

@LibEntry{math.abs (x)|

Returns the absolute value of @id{x}. (integer/float)

}

@LibEntry{math.acos (x)|

Returns the arc cosine of @id{x} (in radians).

}

@LibEntry{math.asin (x)|

Returns the arc sine of @id{x} (in radians).

}

@LibEntry{math.atan (y [, x])|

@index{atan2}
Returns the arc tangent of @T{y/x} (in radians),
but uses the signs of both arguments to find the
quadrant of the result.
(It also handles correctly the case of @id{x} being zero.)

The default value for @id{x} is 1,
so that the call @T{math.atan(y)}
returns the arc tangent of @id{y}.

}

@LibEntry{math.ceil (x)|

Returns the smallest integral value larger than or equal to @id{x}.

}

@LibEntry{math.cos (x)|

Returns the cosine of @id{x} (assumed to be in radians).

}

@LibEntry{math.deg (x)|

Converts the angle @id{x} from radians to degrees.

}

@LibEntry{math.exp
(x)|

Returns the value @M{e@sp{x}}
(where @id{e} is the base of natural logarithms).

}

@LibEntry{math.floor (x)|

Returns the largest integral value smaller than or equal to @id{x}.

}

@LibEntry{math.fmod (x, y)|

Returns the remainder of the division of @id{x} by @id{y}
that rounds the quotient towards zero. (integer/float)

}

@LibEntry{math.huge|

The float value @idx{HUGE_VAL},
a value larger than any other numeric value.

}

@LibEntry{math.log (x [, base])|

Returns the logarithm of @id{x} in the given base.
The default for @id{base} is @M{e}
(so that the function returns the natural logarithm of @id{x}).

}

@LibEntry{math.max (x, @Cdots)|

Returns the argument with the maximum value,
according to the Lua operator @T{<}. (integer/float)

}

@LibEntry{math.maxinteger|
An integer with the maximum value for an integer.

}

@LibEntry{math.min (x, @Cdots)|

Returns the argument with the minimum value,
according to the Lua operator @T{<}. (integer/float)

}

@LibEntry{math.mininteger|
An
 integer with the minimum value for an integer.

}

@LibEntry{math.modf (x)|

Returns the integral part of @id{x} and the fractional part of @id{x}.
Its second result is always a float.

}

@LibEntry{math.pi|

The value of @M{@pi}.

}

@LibEntry{math.rad (x)|

Converts the angle @id{x} from degrees to radians.

}

@LibEntry{math.random ([m [, n]])|

When called without arguments,
returns a pseudo-random float with uniform distribution
in the range @C{(} @M{[0,1)}. @C{]}
When called with two integers @id{m} and @id{n},
@id{math.random} returns a pseudo-random integer
with uniform distribution in the range @M{[m, n]}.
(The value @M{n-m} cannot be negative and must fit in a Lua integer.)
The call @T{math.random(n)} is equivalent to @T{math.random(1,n)}.

This function is an interface to the underling
pseudo-random generator function provided by C.

}

@LibEntry{math.randomseed (x)|

Sets @id{x} as the @Q{seed}
for the pseudo-random generator:
equal seeds produce equal sequences of
 numbers.

}

@LibEntry{math.sin (x)|

Returns the sine of @id{x} (assumed to be in radians).

}

@LibEntry{math.sqrt (x)|

Returns the square root of @id{x}.
(You can also use the expression @T{x^0.5} to compute this value.)

}

@LibEntry{math.tan (x)|

Returns the tangent of @id{x} (assumed to be in radians).

}

@LibEntry{math.tointeger (x)|

If the value @id{x} is convertible to an integer,
returns that integer.
Otherwise, returns @nil.

}

@LibEntry{math.type (x)|

Returns @St{integer} if @id{x} is an integer,
@St{float} if it is a float,
or @nil if @id{x} is not a number.

}

@LibEntry{math.ult (m, n)|

Returns a boolean,

true if and only if integer @id{m} is below integer @id{n} when
they are compared as @x{unsigned integers}.

}

}

@sect2{iolib| @title{Input and Output Facilities}

The I/O library provides two different styles for file manipulation.
The first one uses implicit file handles;
that is, there are operations to set a default input file and a
default output file,
and
 all input/output operations are over these default files.
The second style uses explicit file handles.

When using implicit file handles,
all operations are supplied by table @defid{io}.
When using explicit file handles,
the operation @Lid{io.open} returns a file handle
and then all operations are supplied as methods of the file handle.

The table @id{io} also provides
three predefined file handles with their usual meanings from C:
@defid{io.stdin}, @defid{io.stdout}, and @defid{io.stderr}.
The I/O library never closes these files.

Unless otherwise stated,
all I/O functions return @nil on failure
(plus an error message as a second result and
a system-dependent error code as a third result)
and some value different from @nil on success.
In non-POSIX systems,
the computation of the error message and error code
in case of errors
may be not @x{thread safe},
because they rely on the global C variable @id{errno}.

@LibEntry{io.close ([file])|

Equivalent to @T{file:close()}.
Without a @id{file},
 closes the default output file.

}

@LibEntry{io.flush ()|

Equivalent to @T{io.output():flush()}.

}

@LibEntry{io.input ([file])|

When called with a file name, it opens the named file (in text mode),
and sets its handle as the default input file.
When called with a file handle,
it simply sets this file handle as the default input file.
When called without arguments,
it returns the current default input file.

In case of errors this function raises the error,
instead of returning an error code.

}

@LibEntry{io.lines ([filename, @Cdots])|

Opens the given file name in read mode
and returns an iterator function that
works like @T{file:lines(@Cdots)} over the opened file.
When the iterator function detects the end of file,
it returns no values (to finish the loop) and automatically closes the file.

The call @T{io.lines()} (with no file name) is equivalent
to @T{io.input():lines("*l")};
that is, it iterates over the lines of the default input file.
In this case, the iterator does
 not close the file when the loop ends.

In case of errors this function raises the error,
instead of returning an error code.

}

@LibEntry{io.open (filename [, mode])|

This function opens a file,
in the mode specified in the string @id{mode}.
In case of success,
it returns a new file handle.

The @id{mode} string can be any of the following:
@description{

@item{@St{r}| read mode (the default);}
@item{@St{w}| write mode;}
@item{@St{a}| append mode;}
@item{@St{r+}| update mode, all previous data is preserved;}
@item{@St{w+}| update mode, all previous data is erased;}
@item{@St{a+}| append update mode, previous data is preserved,
 writing is only allowed at the end of file.}
}
The @id{mode} string can also have a @Char{b} at the end,
which is needed in some systems to open the file in binary mode.

}

@LibEntry{io.output ([file])|

Similar to @Lid{io.input}, but operates over the default output file.

}

@LibEntry{io.popen (prog [, mode])|

This function is system dependent and is not
 available
on all platforms.

Starts program @id{prog} in a separated process and returns
a file handle that you can use to read data from this program
(if @id{mode} is @T{"r"}, the default)
or to write data to this program
(if @id{mode} is @T{"w"}).

}

@LibEntry{io.read (@Cdots)|

Equivalent to @T{io.input():read(@Cdots)}.

}

@LibEntry{io.tmpfile ()|

In case of success,
returns a handle for a temporary file.
This file is opened in update mode
and it is automatically removed when the program ends.

}

@LibEntry{io.type (obj)|

Checks whether @id{obj} is a valid file handle.
Returns the string @T{"file"} if @id{obj} is an open file handle,
@T{"closed file"} if @id{obj} is a closed file handle,
or @nil if @id{obj} is not a file handle.

}

@LibEntry{io.write (@Cdots)|

Equivalent to @T{io.output():write(@Cdots)}.

}

@LibEntry{file:close ()|

Closes @id{file}.
Note that files are automatically closed when
their handles are garbage collected,
but that takes an unpredictable amount of
time to happen.

When closing a file handle created with @Lid{io.popen},
@Lid{file:close} returns the same values
returned by @Lid{os.execute}.

}

@LibEntry{file:flush ()|

Saves any written data to @id{file}.

}

@LibEntry{file:lines (@Cdots)|

Returns an iterator function that,
each time it is called,
reads the file according to the given formats.
When no format is given,
uses @St{l} as a default.
As an example, the construction
@verbatim{
for c in file:lines(1) do @rep{body} end
}
will iterate over all characters of the file,

starting at the current position.
Unlike @Lid{io.lines}, this function does not close the file
when the loop ends.

In case of errors this function raises the error,
instead of returning an error code.

}

@LibEntry{file:read (@Cdots)|

Reads the file @id{file},
according to the given formats, which specify what to read.
For each format,
the function returns a string or a number with the characters read,
or @nil if it cannot read data with the specified format.
(In
 this latter case,
the function does not read subsequent formats.)
When called without formats,
it uses a default format that reads the next line
(see below).

The available formats are
@description{

@item{@St{n}|
reads a numeral and returns it as a float or an integer,
following the lexical conventions of Lua.
(The numeral may have leading spaces and a sign.)
This format always reads the longest input sequence that
is a valid prefix for a numeral;
if that prefix does not form a valid numeral
(e.g., an empty string, @St{0x}, or @St{3.4e-}),
it is discarded and the function returns @nil.
}

@item{@St{a}|
reads the whole file, starting at the current position.
On end of file, it returns the empty string.
}

@item{@St{l}|
reads the next line skipping the end of line,
returning @nil on end of file.
This is the default format.
}

@item{@St{L}|
reads the next line keeping the end-of-line character (if present),
returning @nil on end of file.
}

@item{@emph{number}|
reads a string with
 up to this number of bytes,
returning @nil on end of file.
If @id{number} is zero,
it reads nothing and returns an empty string,
or @nil on end of file.
}

}
The formats @St{l} and @St{L} should be used only for text files.

}

@LibEntry{file:seek ([whence [, offset]])|

Sets and gets the file position,
measured from the beginning of the file,
to the position given by @id{offset} plus a base
specified by the string @id{whence}, as follows:
@description{
@item{@St{set}| base is position 0 (beginning of the file);}
@item{@St{cur}| base is current position;}
@item{@St{end}| base is end of file;}
}
In case of success, @id{seek} returns the final file position,
measured in bytes from the beginning of the file.
If @id{seek} fails, it returns @nil,
plus a string describing the error.

The default value for @id{whence} is @T{"cur"},
and for @id{offset} is 0.
Therefore, the call @T{file:seek()} returns the current
file position, without changing it;
the call @T{file:seek("set")} sets the position
 to the
beginning of the file (and returns 0);
and the call @T{file:seek("end")} sets the position to the
end of the file, and returns its size.

}

@LibEntry{file:setvbuf (mode [, size])|

Sets the buffering mode for an output file.
There are three available modes:
@description{

@item{@St{no}|
no buffering; the result of any output operation appears immediately.
}

@item{@St{full}|
full buffering; output operation is performed only
when the buffer is full or when
you explicitly @T{flush} the file @seeF{io.flush}.
}

@item{@St{line}|
line buffering; output is buffered until a newline is output
or there is any input from some special files
(such as a terminal device).
}

}
For the last two cases, @id{size}
specifies the size of the buffer, in bytes.
The default is an appropriate size.

}

@LibEntry{file:write (@Cdots)|

Writes the value of each of its arguments to @id{file}.
The arguments must be strings or numbers.

In case of success, this function returns @id{file}.
Otherwise it
returns @nil plus a string describing the error.

}

}

@sect2{oslib| @title{Operating System Facilities}

This library is implemented through table @defid{os}.

@LibEntry{os.clock ()|

Returns an approximation of the amount in seconds of CPU time
used by the program.

}

@LibEntry{os.date ([format [, time]])|

Returns a string or a table containing date and time,
formatted according to the given string @id{format}.

If the @id{time} argument is present,
this is the time to be formatted
(see the @Lid{os.time} function for a description of this value).
Otherwise, @id{date} formats the current time.

If @id{format} starts with @Char{!},
then the date is formatted in Coordinated Universal Time.
After this optional character,
if @id{format} is the string @St{*t},
then @id{date} returns a table with the following fields:
@id{year}, @id{month} (1@En{}12), @id{day} (1@En{}31),
@id{hour} (0@En{}23), @id{min} (0@En{}59), @id{sec} (0@En{}61),
@id{wday} (weekday, 1@En{}7, Sunday @N{is 1}),
@id{yday}
 (day of the year, 1@En{}366),
and @id{isdst} (daylight saving flag, a boolean).
This last field may be absent
if the information is not available.

If @id{format} is not @St{*t},
then @id{date} returns the date as a string,
formatted according to the same rules as the @ANSI{strftime}.

When called without arguments,
@id{date} returns a reasonable date and time representation that depends on
the host system and on the current locale.
(More specifically, @T{os.date()} is equivalent to @T{os.date("%c")}.)

In non-POSIX systems,
this function may be not @x{thread safe}
because of its reliance on @CId{gmtime} and @CId{localtime}.

}

@LibEntry{os.difftime (t2, t1)|

Returns the difference, in seconds,
from time @id{t1} to time @id{t2}

(where the times are values returned by @Lid{os.time}).
In @x{POSIX}, @x{Windows}, and some other systems,
this value is exactly @id{t2}@M{-}@id{t1}.

}

@LibEntry{os.execute ([command])|

This function is equivalent to the @ANSI{system}.
It passes @id{command}
 to be executed by an operating system shell.
Its first result is @true
if the command terminated successfully,
or @nil otherwise.
After this first result
the function returns a string plus a number,
as follows:
@description{

@item{@St{exit}|
the command terminated normally;
the following number is the exit status of the command.
}

@item{@St{signal}|
the command was terminated by a signal;
the following number is the signal that terminated the command.
}

}

When called without a @id{command},
@id{os.execute} returns a boolean that is true if a shell is available.

}

@LibEntry{os.exit ([code [, close]])|

Calls the @ANSI{exit} to terminate the host program.
If @id{code} is @Rw{true},
the returned status is @idx{EXIT_SUCCESS};
if @id{code} is @Rw{false},
the returned status is @idx{EXIT_FAILURE};
if @id{code} is a number,
the returned status is this number.
The default value for @id{code} is @Rw{true}.

If the optional second argument @id{close} is true,

closes the Lua state before
 exiting.

}

@LibEntry{os.getenv (varname)|

Returns the value of the process environment variable @id{varname},
or @nil if the variable is not defined.

}

@LibEntry{os.remove (filename)|

Deletes the file (or empty directory, on @x{POSIX} systems)
with the given name.
If this function fails, it returns @nil,
plus a string describing the error and the error code.
Otherwise, it returns true.

}

@LibEntry{os.rename (oldname, newname)|

Renames the file or directory named @id{oldname} to @id{newname}.
If this function fails, it returns @nil,
plus a string describing the error and the error code.
Otherwise, it returns true.

}

@LibEntry{os.setlocale (locale [, category])|

Sets the current locale of the program.
@id{locale} is a system-dependent string specifying a locale;
@id{category} is an optional string describing which category to change:
@T{"all"}, @T{"collate"}, @T{"ctype"},
@T{"monetary"}, @T{"numeric"}, or @T{"time"};
the default category is @T{"all"}.
The function returns
 the name of the new locale,
or @nil if the request cannot be honored.

If @id{locale} is the empty string,
the current locale is set to an implementation-defined native locale.
If @id{locale} is the string @St{C},
the current locale is set to the standard C locale.

When called with @nil as the first argument,
this function only returns the name of the current locale
for the given category.

This function may be not @x{thread safe}
because of its reliance on @CId{setlocale}.

}

@LibEntry{os.time ([table])|

Returns the current time when called without arguments,
or a time representing the local date and time specified by the given table.
This table must have fields @id{year}, @id{month}, and @id{day},
and may have fields
@id{hour} (default is 12),
@id{min} (default is 0),
@id{sec} (default is 0),
and @id{isdst} (default is @nil).
Other fields are ignored.
For a description of these fields, see the @Lid{os.date} function.

The values in these fields do not need to be inside their valid
ranges.
For instance, if @id{sec} is -10,
it means -10 seconds from the time specified by the other fields;
if @id{hour} is 1000,
it means +1000 hours from the time specified by the other fields.

The returned value is a number, whose meaning depends on your system.
In @x{POSIX}, @x{Windows}, and some other systems,
this number counts the number
of seconds since some given start time (the @Q{epoch}).
In other systems, the meaning is not specified,
and the number returned by @id{time} can be used only as an argument to
@Lid{os.date} and @Lid{os.difftime}.

}

@LibEntry{os.tmpname ()|

Returns a string with a file name that can
be used for a temporary file.
The file must be explicitly opened before its use
and explicitly removed when no longer needed.

In @x{POSIX} systems,
this function also creates a file with that name,

to avoid security risks.
(Someone else might create the file with wrong permissions
in the time between getting the name and creating the file.)
You still have to
 open the file to use it
and to remove it (even if you do not use it).

When possible,
you may prefer to use @Lid{io.tmpfile},
which automatically removes the file when the program ends.

}

}

@sect2{debuglib| @title{The Debug Library}

This library provides
the functionality of the @link{debugI|debug interface} to Lua programs.
You should exert care when using this library.
Several of its functions
violate basic assumptions about Lua code
(e.g., that variables local to a function
cannot be accessed from outside;
that userdata metatables cannot be changed by Lua code;
that Lua programs do not crash)
and therefore can compromise otherwise secure code.
Moreover, some functions in this library may be slow.

All functions in this library are provided
inside the @defid{debug} table.
All functions that operate over a thread
have an optional first argument which is the
thread to operate over.
The default is always the current thread.

@LibEntry{debug.debug ()|

Enters an interactive mode with
 the user,
running each string that the user enters.
Using simple commands and other debug facilities,
the user can inspect global and local variables,
change their values, evaluate expressions, and so on.
A line containing only the word @id{cont} finishes this function,
so that the caller continues its execution.

Note that commands for @id{debug.debug} are not lexically nested
within any function and so have no direct access to local variables.

}

@LibEntry{debug.gethook ([thread])|

Returns the current hook settings of the thread, as three values:
the current hook function, the current hook mask,
and the current hook count
(as set by the @Lid{debug.sethook} function).

}

@LibEntry{debug.getinfo ([thread,] f [, what])|

Returns a table with information about a function.
You can give the function directly
or you can give a number as the value of @id{f},
which means the function running at level @id{f} of the call stack
of the given thread:
@N{level 0} is the current function (@id{getinfo}
itself);
@N{level 1} is the function that called @id{getinfo}
(except for tail calls, which do not count on the stack);
and so on.
If @id{f} is a number larger than the number of active functions,
then @id{getinfo} returns @nil.

The returned table can contain all the fields returned by @Lid{lua_getinfo},
with the string @id{what} describing which fields to fill in.
The default for @id{what} is to get all information available,
except the table of valid lines.
If present,
the option @Char{f}
adds a field named @id{func} with the function itself.
If present,
the option @Char{L}
adds a field named @id{activelines} with the table of
valid lines.

For instance, the expression @T{debug.getinfo(1,"n").name} returns
a name for the current function,
if a reasonable name can be found,
and the expression @T{debug.getinfo(print)}
returns a table with all available information
about the @Lid{print} function.

}

@LibEntry{debug.getlocal ([thread,] f, local)|

This function returns the name
 and the value of the local variable
with index @id{local} of the function at level @id{f} of the stack.
This function accesses not only explicit local variables,
but also parameters, temporaries, etc.

The first parameter or local variable has @N{index 1}, and so on,
following the order that they are declared in the code,
counting only the variables that are active
in the current scope of the function.
Negative indices refer to vararg arguments;
@num{-1} is the first vararg argument.
The function returns @nil if there is no variable with the given index,
and raises an error when called with a level out of range.
(You can call @Lid{debug.getinfo} to check whether the level is valid.)

Variable names starting with @Char{(} (open parenthesis) @C{)}
represent variables with no known names
(internal variables such as loop control variables,
and variables from chunks saved without debug information).

The parameter @id{f} may also be a function.
In that case, @id{getlocal} returns only the
 name of function parameters.

}

@LibEntry{debug.getmetatable (value)|

Returns the metatable of the given @id{value}
or @nil if it does not have a metatable.

}

@LibEntry{debug.getregistry ()|

Returns the registry table @see{registry}.

}

@LibEntry{debug.getupvalue (f, up)|

This function returns the name and the value of the upvalue
with index @id{up} of the function @id{f}.

The function returns @nil if there is no upvalue with the given index.

Variable names starting with @Char{(} (open parenthesis) @C{)}
represent variables with no known names
(variables from chunks saved without debug information).

}

@LibEntry{debug.getuservalue (u)|

Returns the Lua value associated to @id{u}.
If @id{u} is not a full userdata,
returns @nil.

}

@LibEntry{debug.sethook ([thread,] hook, mask [, count])|

Sets the given function as a hook.
The string @id{mask} and the number @id{count} describe
when the hook will be called.
The string mask may have any combination of the following characters,
with
 the given meaning:
@description{
@item{@Char{c}| the hook is called every time Lua calls a function;}
@item{@Char{r}| the hook is called every time Lua returns from a function;}
@item{@Char{l}| the hook is called every time Lua enters a new line of code.}
}
Moreover,
with a @id{count} different from zero,
the hook is called also after every @id{count} instructions.

When called without arguments,
@Lid{debug.sethook} turns off the hook.

When the hook is called, its first argument is a string
describing the event that has triggered its call:
@T{"call"} (or @T{"tail call"}),
@T{"return"},
@T{"line"}, and @T{"count"}.
For line events,
the hook also gets the new line number as its second parameter.
Inside a hook,
you can call @id{getinfo} with @N{level 2} to get more information about
the running function
(@N{level 0} is the @id{getinfo} function,
and @N{level 1} is the hook function).

}

@LibEntry{debug.setlocal ([thread,] level, local, value)|

This function assigns the value @id{value}
 to the local variable
with index @id{local} of the function at level @id{level} of the stack.
The function returns @nil if there is no local
variable with the given index,
and raises an error when called with a @id{level} out of range.
(You can call @id{getinfo} to check whether the level is valid.)
Otherwise, it returns the name of the local variable.

See @Lid{debug.getlocal} for more information about
variable indices and names.

}

@LibEntry{debug.setmetatable (value, table)|

Sets the metatable for the given @id{value} to the given @id{table}
(which can be @nil).
Returns @id{value}.

}

@LibEntry{debug.setupvalue (f, up, value)|

This function assigns the value @id{value} to the upvalue
with index @id{up} of the function @id{f}.
The function returns @nil if there is no upvalue
with the given index.
Otherwise, it returns the name of the upvalue.

}

@LibEntry{debug.setuservalue (udata, value)|

Sets the given @id{value} as
the Lua value associated to the given @id{udata}.
@id{udata}
 must be a full userdata.

Returns @id{udata}.

}

@LibEntry{debug.traceback ([thread,] [message [, level]])|

If @id{message} is present but is neither a string nor @nil,
this function returns @id{message} without further processing.
Otherwise,
it returns a string with a traceback of the call stack.
The optional @id{message} string is appended
at the beginning of the traceback.
An optional @id{level} number tells at which level
to start the traceback
(default is 1, the function calling @id{traceback}).

}

@LibEntry{debug.upvalueid (f, n)|

Returns a unique identifier (as a light userdata)
for the upvalue numbered @id{n}
from the given function.

These unique identifiers allow a program to check whether different
closures share upvalues.
Lua closures that share an upvalue
(that is, that access a same external local variable)
will return identical ids for those upvalue indices.

}

@LibEntry{debug.upvaluejoin (f1, n1, f2, n2)|

Make the @id{n1}-th upvalue of the Lua closure @id{f1}
refer
 to the @id{n2}-th upvalue of the Lua closure @id{f2}.

}

}

}

@C{----------}
@sect1{lua-sa| @title{Lua Standalone}

Although Lua has been designed as an extension language,
to be embedded in a host @N{C program},
it is also frequently used as a standalone language.
An interpreter for Lua as a standalone language,

called simply @id{lua},
is provided with the standard distribution.
The @x{standalone interpreter} includes
all standard libraries, including the debug library.
Its usage is:
@verbatim{
lua [options] [script [args]]
}
The options are:
@description{
@item{@T{-e @rep{stat}}| executes string @rep{stat};}
@item{@T{-l @rep{mod}}| @Q{requires} @rep{mod} and assigns the
 result to global @@rep{mod};}
@item{@T{-i}| enters interactive mode after running @rep{script};}
@item{@T{-v}| prints version information;}
@item{@T{-E}| ignores environment variables;}
@item{@T{--}| stops handling options;}
@item{@T{-}| executes
 @id{stdin} as a file and stops handling options.}
}
After handling its options, @id{lua} runs the given @emph{script}.
When called without arguments,
@id{lua} behaves as @T{lua -v -i}
when the standard input (@id{stdin}) is a terminal,
and as @T{lua -} otherwise.

When called without option @T{-E},
the interpreter checks for an environment variable @defid{LUA_INIT_5_3}
(or @defid{LUA_INIT} if the versioned name is not defined)
before running any argument.
If the variable content has the format @T{@At@rep{filename}},
then @id{lua} executes the file.
Otherwise, @id{lua} executes the string itself.

When called with option @T{-E},
besides ignoring @id{LUA_INIT},
Lua also ignores
the values of @id{LUA_PATH} and @id{LUA_CPATH},
setting the values of
@Lid{package.path} and @Lid{package.cpath}
with the default paths defined in @id{luaconf.h}.

All options are handled in order, except @T{-i} and @T{-E}.
For instance, an invocation like
@verbatim{
$ lua -e'a=1' -e 'print(a)' script.lua
}
will

first set @id{a} to 1, then print the value of @id{a},
and finally run the file @id{script.lua} with no arguments.
(Here @T{$} is the shell prompt. Your prompt may be different.)

Before running any code,
@id{lua} collects all command-line arguments
in a global table called @id{arg}.
The script name goes to index 0,
the first argument after the script name goes to index 1,
and so on.
Any arguments before the script name
(that is, the interpreter name plus its options)
go to negative indices.
For instance, in the call
@verbatim{
$ lua -la b.lua t1 t2
}
the table is like this:
@verbatim{
arg = { [-2] = "lua", [-1] = "-la",
    [0] = "b.lua",
    [1] = "t1", [2] = "t2" }
}
If there is no script in the call,
the interpreter name goes to index 0,
followed by the other arguments.
For instance, the call
@verbatim{
$ lua -e "print(arg[1])"
}
will print @St{-e}.
If there is a script,
the script is called with arguments
@T{arg[1]}, @Cdots, @T{arg[#arg]}.
(Like all chunks in Lua,
the
script is compiled as a vararg function.)

In interactive mode,
Lua repeatedly prompts and waits for a line.
After reading a line,
Lua first try to interpret the line as an expression.
If it succeeds, it prints its value.
Otherwise, it interprets the line as a statement.
If you write an incomplete statement,
the interpreter waits for its completion
by issuing a different prompt.

If the global variable @defid{_PROMPT} contains a string,
then its value is used as the prompt.
Similarly, if the global variable @defid{_PROMPT2} contains a string,
its value is used as the secondary prompt
(issued during incomplete statements).

In case of unprotected errors in the script,
the interpreter reports the error to the standard error stream.
If the error object is not a string but
has a metamethod @idx{__tostring},
the interpreter calls this metamethod to produce the final message.
Otherwise, the interpreter converts the error object to a string
and adds a stack traceback to it.

When finishing normally,
the
 interpreter closes its main Lua state
@seeF{lua_close}.
The script can avoid this step by
calling @Lid{os.exit} to terminate.

To allow the use of Lua as a
script interpreter in Unix systems,
the standalone interpreter skips
the first line of a chunk if it starts with @T{#}.
Therefore, Lua scripts can be made into executable programs
by using @T{chmod +x} and @N{the @T{#!}} form,
as in
@verbatim{
#!/usr/local/bin/lua
}
(Of course,
the location of the Lua interpreter may be different in your machine.
If @id{lua} is in your @id{PATH},
then
@verbatim{
#!/usr/bin/env lua
}
is a more portable solution.)

}

@sect1{incompat| @title{Incompatibilities with the Previous Version}

Here we list the incompatibilities that you may find when moving a program
from @N{Lua 5.2} to @N{Lua 5.3}.
You can avoid some incompatibilities by compiling Lua with

appropriate options (see file @id{luaconf.h}).
However,
all these compatibility options will be removed in the future.

Lua versions can always
change the C API in ways that
do not imply source-code changes in a program,
such as the numeric values for constants
or the implementation of functions as macros.
Therefore,
you should not assume that binaries are compatible between
different Lua versions.
Always recompile clients of the Lua API when
using a new version.

Similarly, Lua versions can always change the internal representation
of precompiled chunks;
precompiled chunks are not compatible between different Lua versions.

The standard paths in the official distribution may
change between versions.

@sect2{@title{Changes in the Language}
@itemize{

@item{
The main difference between @N{Lua 5.2} and @N{Lua 5.3} is the
introduction of an integer subtype for numbers.
Although this change should not affect @Q{normal} computations,
some computations
(mainly those that involve some kind of overflow)
can give different results.

You can fix these differences by forcing a number to be a float
(in @N{Lua 5.2} all numbers were float),
in
particular writing constants with an ending @T{.0}
or using @T{x = x + 0.0} to convert a variable.
(This recommendation is only for a quick fix
for an occasional incompatibility;
it is not a general guideline for good programming.
For good programming,
use floats where you need floats
and integers where you need integers.)
}

@item{
The conversion of a float to a string now adds a @T{.0} suffix

to the result if it looks like an integer.
(For instance, the float 2.0 will be printed as @T{2.0},
not as @T{2}.)
You should always use an explicit format
when you need a specific format for numbers.

(Formally this is not an incompatibility,
because Lua does not specify how numbers are formatted as strings,
but some programs assumed a specific format.)
}

@item{
The generational mode for the garbage collector was removed.
(It was an experimental feature in @N{Lua 5.2}.)
}

}

}

@sect2{@title{Changes in the Libraries}
@itemize{

@item{
The @id{bit32} library has been deprecated.
It is
 easy to require a compatible external library or,
better yet, to replace its functions with appropriate bitwise operations.
(Keep in mind that @id{bit32} operates on 32-bit integers,
while the bitwise operators in @N{Lua 5.3} operate on Lua integers,
which by default have @N{64 bits}.)
}

@item{
The Table library now respects metamethods
for setting and getting elements.
}

@item{
The @Lid{ipairs} iterator now respects metamethods and
its @idx{__ipairs} metamethod has been deprecated.
}

@item{
Option names in @Lid{io.read} do not have a starting @Char{*} anymore.
For compatibility, Lua will continue to accept (and ignore) this character.
}

```
@item{
The following functions were deprecated in the mathematical library:
@id{atan2}, @id{cosh}, @id{sinh}, @id{tanh}, @id{pow},
@id{frexp}, and @id{ldexp}.
You can replace @T{math.pow(x,y)} with @T{x^y};
you can replace @id{math.atan2} with @id{math.atan},
which now accepts one or two arguments;
you can replace @T{math.ldexp(x,exp)} with @T{x
 * 2.0^exp}.
For the other operations,
you can either use an external library or
implement them in Lua.
}

@item{
The searcher for C loaders used by @Lid{require}
changed the way it handles versioned names.
Now, the version should come after the module name
(as is usual in most other tools).
For compatibility, that searcher still tries the old format
if it cannot find an open function according to the new style.
(@N{Lua 5.2} already worked that way,
but it did not document the change.)
}

@item{
The call @T{collectgarbage("count")} now returns only one result.
(You can compute that second result from the fractional part
of the first result.)
}

}

}

@sect2{@title{Changes in the API}

@itemize{

@item{
Continuation functions now receive as arguments what they needed
to get through @id{lua_getctx},
so @id{lua_getctx} has been removed.
Adapt your code accordingly.
}

@item{
```

Function @Lid{lua_dump} has an extra parameter, @id{strip}.
Use 0 as the value of this parameter to get the old behavior.
}

@item{
Functions
 to inject/project unsigned integers
(@id{lua_pushunsigned}, @id{lua_tounsigned}, @id{lua_tounsignedx},
@id{luaL_checkunsigned}, @id{luaL_optunsigned})
were deprecated.
Use their signed equivalents with a type cast.
}

@item{
Macros to project non-default integer types
(@id{luaL_checkint}, @id{luaL_optint}, @id{luaL_checklong}, @id{luaL_optlong})
were deprecated.
Use their equivalent over @Lid{lua_Integer} with a type cast
(or, when possible, use @Lid{lua_Integer} in your code).
}

}

}

}

@C{[==========}

@sect1{BNF| @title{The Complete Syntax of Lua}

Here is the complete syntax of Lua in extended BNF.
As usual in extended BNF,
@bnfNter{{A}} means 0 or more @bnfNter{A}s,
and @bnfNter{[A]} means an optional @bnfNter{A}.
(For operator precedences, see @See{prec};
for a description of the terminals
@bnfNter{Name}, @bnfNter{Numeral},
and @bnfNter{LiteralString}, see @See{lexical}.)
@index{grammar}

@Produc{

@producname{chunk}@producbody{block}

@producname{block}@producbody{@bnfrep{stat}

```
 @bnfopt{retstat}}

@producname{stat}@producbody{
 @bnfter{;}
@OrNL varlist @bnfter{=} explist
@OrNL functioncall
@OrNL label
@OrNL   @Rw{break}
@OrNL   @Rw{goto} Name
@OrNL @Rw{do} block @Rw{end}
@OrNL @Rw{while} exp @Rw{do} block @Rw{end}
@OrNL @Rw{repeat} block @Rw{until} exp
@OrNL @Rw{if} exp @Rw{then} block
 @bnfrep{@Rw{elseif} exp @Rw{then} block}
 @bnfopt{@Rw{else} block} @Rw{end}
@OrNL @Rw{for} @bnfNter{Name} @bnfter{=} exp @bnfter{,} exp @bnfopt{@bnfter{,} exp}
 @Rw{do} block @Rw{end}
@OrNL   @Rw{for} namelist @Rw{in} explist @Rw{do} block @Rw{end}
@OrNL @Rw{function} funcname funcbody
@OrNL @Rw{local} @Rw{function} @bnfNter{Name} funcbody
@OrNL @Rw{local} namelist @bnfopt{@bnfter{=} explist}
}

@producname{retstat}@producbody{@Rw{return}
                        @bnfopt{explist} @bnfopt{@bnfter{;}}}

@producname{label}@producbody{@bnfter{::} Name @bnfter{::}}

@producname{funcname}@producbody{@bnfNter{Name}
 @bnfrep{@bnfter{.} @bnfNter{Name}}
                      @bnfopt{@bnfter{:} @bnfNter{Name}}}

@producname{varlist}@producbody{var @bnfrep{@bnfter{,} var}}

@producname{var}@producbody{
 @bnfNter{Name}
@Or prefixexp @bnfter{[} exp @bnfter{]}
@Or prefixexp @bnfter{.} @bnfNter{Name}
}

@producname{namelist}@producbody{@bnfNter{Name} @bnfrep{@bnfter{,} @bnfNter{Name}}}


@producname{explist}@producbody{exp @bnfrep{@bnfter{,} exp}}

@producname{exp}@producbody{
 @Rw{nil}
@Or @Rw{false}
```

```
@Or @Rw{true}
@Or @bnfNter{Numeral}
@Or @bnfNter{LiteralString}
@Or @bnfter{...}
@Or functiondef
@OrNL prefixexp
@Or tableconstructor
@Or exp binop exp
@Or unop exp
}

@producname{prefixexp}@producbody{var @Or functioncall @Or @bnfter{(} exp @bnfter{)}}

@producname{functioncall}@producbody{
 prefixexp args
@Or prefixexp @bnfter{:} @bnfNter{Name} args
}

@producname{args}@producbody{
 @bnfter{(} @bnfopt{explist} @bnfter{)}
@Or tableconstructor
@Or @bnfNter{LiteralString}
}

@producname{functiondef}@producbody{@Rw{function}
 funcbody}

@producname{funcbody}@producbody{@bnfter{(} @bnfopt{parlist} @bnfter{)} block @Rw{end}}

@producname{parlist}@producbody{namelist @bnfopt{@bnfter{,} @bnfter{...}}
 @Or @bnfter{...}}

@producname{tableconstructor}@producbody{@bnfter{@Open} @bnfopt{fieldlist} @bnfter{@Close}}

@producname{fieldlist}@producbody{field @bnfrep{fieldsep field} @bnfopt{fieldsep}}

@producname{field}@producbody{@bnfter{[} exp @bnfter{]} @bnfter{=} exp @Or @bnfNter{Name}
@bnfter{=} exp @Or exp}

@producname{fieldsep}@producbody{@bnfter{,} @Or @bnfter{;}}

@producname{binop}@producbody{
 @bnfter{+} @Or @bnfter{-} @Or @bnfter{*} @Or @bnfter{/} @Or @bnfter{//}
   @Or @bnfter{^} @Or @bnfter{%}
       @OrNL
 @bnfter{&} @Or @bnfter{~} @Or @bnfter{|} @Or @bnfter{>>} @Or @bnfter{<<}
   @Or @bnfter{..}
       @OrNL
```

```
 @bnfter{<} @Or @bnfter{<=} @Or @bnfter{>} @Or @bnfter{>=}
   @Or @bnfter{==} @Or @bnfter{~=}
      @OrNL
 @Rw{and} @Or @Rw{or}}

@producname{unop}@producbody{@bnfter{-}
 @Or @Rw{not} @Or @bnfter{#} @Or
 @bnfter{~}}

}

}

@C{]==================================================================}

}
@C{)]-----------------------------------------------------------------------}
```

Found in path(s):
* /opt/cola/permits/1411688757_1711515715.9631464/0/lua-5-3-6-1-tar-gz/lua-5.3.6/manual/manual.of
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header = string.gsub(header, "All rights reserved",

Found in path(s):
* /opt/cola/permits/1411688757_1711515715.9631464/0/lua-5-3-6-1-tar-gz/lua-5.3.6/manual/2html

1.851 libepoxy 1.5.10-1

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1.852 ssl-cert 1.1.2

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1.853 libusbmuxd 2.0.2-3build2

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* /opt/cola/permits/1411689152_1665237124.402532/0/chardet-1-0-tar-gz/chardet-1.0/chardet/euctwfreq.py
*
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Metadata-Version: 1.0
Name: chardet
Version: 1.0
Summary: Universal encoding detector
Home-page: http://chardet.feedparser.org/
Author: Mark Pilgrim
Author-email: mark@diveintomark.org
License: LGPL
Download-URL: http://chardet.feedparser.org/download/
Description: Universal character encoding detector

Detects
- ASCII, UTF-8, UTF-16 (2 variants), UTF-32 (4 variants)
- Big5, GB2312, EUC-TW, HZ-GB-2312, ISO-2022-CN (Traditional and Simplified Chinese)
- EUC-JP, SHIFT_JIS, ISO-2022-JP (Japanese)
- EUC-KR, ISO-2022-KR (Korean)
- KOI8-R, MacCyrillic, IBM855, IBM866, ISO-8859-5, windows-1251 (Cyrillic)
- ISO-8859-2, windows-1250 (Hungarian)
- ISO-8859-5, windows-1251 (Bulgarian)
- windows-1252 (English)
- ISO-8859-7, windows-1253 (Greek)
- ISO-8859-8, windows-1255 (Visual and Logical
Hebrew)
- TIS-620 (Thai)

Requires Python 2.1 or later

Keywords: encoding,i18n,xml
Platform: POSIX
Platform: Windows
Classifier: Development Status :: 4 - Beta
Classifier: Environment :: Other Environment
Classifier: Intended Audience :: Developers
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Classifier: Programming Language :: Python
Classifier: Topic :: Software Development :: Libraries :: Python Modules

Classifier: Topic :: Text Processing :: Linguistic

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Found in path(s):
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1.855 usbutils 014-1build1

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written offer, valid for at least three years
and valid for as
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline

functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the

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* Bob Schlaermann
Dynamic chip feature detection (a.k.a. generic chip support) in

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* Mark M. Hoffman
Many improvements to the libsensors configuration file scanner.
* Jean Delvare
New libsensors API, and migration of sensors and sensord thereto.
Many optimizations in libsensors and sensors.
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Rewrite of sensors-detect.
Support for multiple configuration files in libsensors.

1.862 iucode-tool 2.3.1-1build1

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GPL-2.0+
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GPL-2.0-or-later
GPL-2.0-with-GCC-exception
GPL-2.0-with-autoconf-exception
GPL-2.0-with-bison-exception
GPL-2.0-with-classpath-exception
GPL-2.0-with-font-exception
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GPL-3.0-only
GPL-3.0-or-later
GPL-3.0-with-GCC-exception
GPL-3.0-with-autoconf-exception
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NBPL-1.0
NCGL-UK-2.0
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NIST-PD-fallback
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NLPL
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NRL
NTP
NTP-0
Naumen
Net-SNMP

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Newsletr
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Nunit
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OCCT-PL
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ODbL-1.0
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OLDAP-2.6
OLDAP-2.7
OLDAP-2.8
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OPUBL-1.0
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OSL-1.1
OSL-2.0
OSL-2.1
OSL-3.0

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PDDL-1.0
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PHP-3.01
PSF-2.0
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Parity-7.0.0
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PolyForm-Noncommercial-1.0.0
PolyForm-Small-Business-1.0.0
PostgreSQL
Python-2.0
QPL-1.0
Qhull
RHeCos-1.1
RPL-1.1
RPL-1.5
RPSL-1.0
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RSCPL
Rdisc
Ruby
SAX-PD
SCEA
SGI-B-1.0
SGI-B-1.1
SGI-B-2.0
SHL-0.5
SHL-0.51
SISSL
SISSL-1.2
SMLNJ
SMPPL
SNIA
SPL-1.0
SSH-OpenSSH
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Sleepycat
Spencer-86
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Wsuipa
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X11-distribute-modifications-variant
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XSkat
Xerox
Xnet
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YPL-1.1
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ZPL-2.0
ZPL-2.1
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Zend-2.0
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Zimbra-1.4
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bzip2-1.0.6
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copyleft-next-0.3.1
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etalab-2.0
gSOAP-1.3b
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iMatix
libpng-2.0
libselinux-1.0
libtiff
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xinetd
xpp
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Autoconf-exception-2.0
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Bootloader-exception
CLISP-exception-2.0
Classpath-exception-2.0
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Otherwise, if the work is a derivative of the Library, you may distribute the
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1.866 libblockdev 2.26-1

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from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the

Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library,
if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
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specified in Subsection 6a, above, for a charge no more
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1.867 man-db 2.10.2-1

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(For example, a function in a library to compute square roots has

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1.870 bash-completion 2.11-5ubuntu1

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into
another language. (Hereinafter, translation is
included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation

and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any

application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding

machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that
uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the
object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
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modification of the work for the customer's own use and reverse

engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is

normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
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It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
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1.872 libftdi 1.5-5build3

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary

GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if
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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do

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subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
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4. You may copy and distribute the Library (or a portion or
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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
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If such an object file uses only numerical parameters, data

structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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1.878 jansson 2.13.1-1.1build3

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1.879 python-keyring 23.5.0-1

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``Source code'' for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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If a facility in the modified Library refers to a function or a
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table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
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root function must still compute square roots.)
@end enumerate

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If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
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@item
A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a ``work that uses the Library''. Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a ``work that uses the Library'' with the Library
creates an executable that is a derivative of the Library (because
it
contains portions of the Library), rather than a ``work that uses the
library''. The executable is therefore covered by this License.
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that is part of the Library, the object code for the work may be a
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If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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@item
As an exception to the Sections above, you may also combine or
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@enumerate a
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@subheading END OF TERMS AND CONDITIONS

@page
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The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
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form) with the major components (compiler, kernel, and so on) of the
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@page
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and a brief idea of what it does.}
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1.881 libsmbios 2.4.3-1build1

1.881.1 Available under license :

```
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*
* Whom: Steve Mertz <steve@dragon-ware.com>
* Date: 20010111
* Why:  Because I couldn't find one that I liked. So I wrote this one.
*
*/
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1.884 strace 5.16-0ubuntu3

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1.888 dctrl-tools 2.24-3build2

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machine-readable source code for the Library including whatever

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1.890 libnfnetlink 1.0.1-3build3

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1.891 cairo 1.16.0-5ubuntu2

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1.893 time 1.9-0.1build2

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Version 3, 29 June 2007

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1.894 bolt 0.9.2-1

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the
object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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of these things:

a) Accompany
the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
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with the Library, with the complete machine-readable "work that
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user can modify the Library and then relink to produce a modified

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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1.897 linux-base 4.5ubuntu9

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1.899 libjcat 0.1.9-1

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1.900 libplist 2.2.0-6build2

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1.904 fonts-ubuntu 0.83-6ubuntu1

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Ubuntu Font Family Licensing FAQ

Stylistic Foundations

The Ubuntu Font Family is the first time that a libre typeface has been designed professionally and explicitly with the intent of developing a public and long-term community-based development process.

When developing an open project, it is generally necessary to have firm foundations: a font needs to maintain harmony within itself even across many type designers and writing systems. For the [1]Ubuntu Font Family, the process has been guided with the type foundry Dalton Maag setting the project up with firm stylistic foundation covering several left-to-right scripts: Latin, Greek and Cyrillic; and right-to-left scripts: Arabic and Hebrew (due in 2011).

With this starting point the community will, under the supervision of [2]Canonical and [3]Dalton Maag, be able to build on the existing font sources to expand their character coverage. Ultimately everybody will be
able to use the Ubuntu Font Family in their own written languages across the whole of Unicode (and this will take some time!).

Licensing

The licence chosen by any free software project is one of the foundational decisions that sets out how derivatives and contributions can occur, and in turn what kind of community will form around the project.

Using a licence that is compatible with other popular licences is a powerful constraint because of the [4]network effects: the freedom to share improvements between projects allows free software to reach high-quality over time. Licence-proliferation leads to many incompatible licences, undermining the network effect, the freedom to share and ultimately making the libre movement that Ubuntu is a part of less effective. For all kinds of software, writing a new licence is not

to be taken lightly and is a choice that needs to be thoroughly justified if this path is taken.

Today it is not clear to Canonical what the best licence for a font project like the Ubuntu Font Family is: one that starts life designed by professionals and continues with the full range of community development, from highly commercial work in new directions to curious beginners' experimental contributions. The fast and steady pace of the Ubuntu release cycle means that an interim libre licence has been necessary to enable the consideration of the font family as part of Ubuntu 10.10 operating system release.

Before taking any decision on licensing, Canonical as sponsor and backer of the project has reviewed the many existing licenses used for libre/open fonts and engaged the stewards of the most popular licenses in detailed discussions. The current interim licence is the first step in progressing the state-of-the-art in licensing for libre/open font development.

The public discussion must now involve everyone in the (comparatively new) area of the libre/open font community; including font users, software freedom advocates, open source supporters and existing libre font developers. Most importantly, the minds and wishes of professional type designers considering entering the free software business community must be taken on board.

Conversations and discussion has taken place, privately, with individuals from the following groups (generally speaking personally on behalf of themselves, rather than their affiliations):

* [5]SIL International
* [6]Open Font Library
* [7]Software Freedom Law Center
* [8]Google Font API

Document embedding

One issue highlighted early on in the survey of existing font licences is that of document embedding. Almost all font licences, both free and unfree, permit embedding a font into a document to a certain degree. Embedding a font with other works that make up a document creates a "combined work" and copyleft would normally require the whole document to be distributed under the terms of the font licence. As beautiful as the font might be, such a licence makes a font too restrictive for useful general purpose digital publishing.

The situation is not entirely unique to fonts and is encountered also with tools such as GNU Bison: a vanilla GNU GPL licence would require anything generated with Bison to be made available under the terms of the GPL as well. To avoid this, Bison is [9]published with an additional permission to the GPL which allows the output of Bison to be made available under any licence.

The conflict between licensing of fonts and licensing of documents, is addressed in two popular libre font licences, the SIL OFL and GNU GPL:

* [10]SIL Open Font Licence: When OFL fonts are embedded in a document, the OFL's terms do not apply to that document. (See [11]OFL-FAQ for details.
* [12]GPL Font Exception: The situation is resolved by granting an additional permission to allow documents to not be covered by the GPL. (The exception is being reviewed).

The Ubuntu Font Family must also resolve this conflict, ensuring that if the font is embedded and then extracted it is once again clearly under the terms of its libre licence.

Long-term licensing

Those individuals involved, especially from Ubuntu and Canonical, are interested in finding a long-term libre licence that finds broad favour across the whole libre/open font community. The deliberation during the past months has been on how to licence the Ubuntu Font Family in the short-term, while knowingly encouraging everyone to pursue a long-term goal.

* [13]Copyright assignment will be required so that the Ubuntu Font Family's licensing can be progressively expanded to one (or more) licences, as best practice continues to evolve within the libre/open font community.
* Canonical will support and fund legal work on libre font licensing.

  It is recognised that the cost and time commitments required are likely to be significant. We invite other capable parties to join in supporting this activity.

The GPL version 3 (GPLv3) will be used for Ubuntu Font Family build scripts and the CC-BY-SA for associated documentation and non-font content: all items which do not end up embedded in general works and documents.

Ubuntu Font Licence

For the short-term only, the initial licence is the [14]Ubuntu Font License (UFL). This is loosely inspired from the work on the SIL

OFL 1.1, and seeks to clarify the issues that arose during discussions and legal review, from the perspective of the backers, Canonical Ltd. Those already using established licensing models such as the GPL, OFL or Creative Commons licensing should have no worries about continuing to use them. The Ubuntu Font Licence (UFL) and the SIL Open Font Licence (SIL OFL) are not identical and should not be confused with each other. Please read the terms precisely. The UFL is only intended as an interim license, and the overriding aim is to support the creation of a more suitable and generic libre font licence. As soon as such a licence is developed, the Ubuntu Font Family will migrate to itmade possible by copyright assignment in the interium. Between the OFL 1.1, and the UFL 1.0, the following changes are made to produce the Ubuntu Font Licence:

* Clarification:

1. Document embedding (see [15]embedding section above).
2. Apply at point of distribution, instead of receipt
3. Author vs. copyright holder disambiguation (type designers are authors, with the copyright holder normally being the funder)
4. Define "Propagate" (for internationalisation, similar to the GPLv3)
5. Define "Substantially Changed"
6. Trademarks are explicitly not transferred
7. Refine renaming requirement

Streamlining:

8. Remove "not to be sold separately" clause
9. Remove "Reserved Font Name(s)" declaration

A visual demonstration of how these points were implemented can be found in the accompanying coloured diff between SIL OFL 1.1 and the Ubuntu Font Licence 1.0: [16]ofl-1.1-ufl-1.0.diff.html

References

1. http://font.ubuntu.com/
2. http://www.canonical.com/
3. http://www.daltonmaag.com/
4. http://en.wikipedia.org/wiki/Network_effect
5. http://scripts.sil.org/
6. http://openfontlibrary.org/
7. http://www.softwarefreedom.org/
8. http://code.google.com/webfonts
9. http://www.gnu.org/licenses/gpl-faq.html#CanIUseGPLToolsForNF
10. http://scripts.sil.org/OFL_web
11. http://scripts.sil.org/OFL-FAQ_web
12. http://www.gnu.org/licenses/gpl-faq.html#FontException
13. https://launchpad.net/~uff-contributors
14. http://font.ubuntu.com/ufl/ubuntu-font-licence-1.0.txt

15. http://font.ubuntu.com/ufl/FAQ.html#embedding
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Ty Coon, President of Vice

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1.908 libxml-parser-perl 2.46-3build1

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*/

Found in path(s):
* /opt/cola/permits/1411690030_1662671678.0428326/0/libxml-parser-perl-2-46-orig-1-tar-gz/XML-Parser-2.46/Expat/encoding.h
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* /opt/cola/permits/1411690030_1662671678.0428326/0/libxml-parser-perl-2-46-orig-1-tar-gz/XML-Parser-2.46/Parser.pm
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---
abstract: 'A perl module for parsing XML documents'
author:
 - 'Clark Cooper (coopercc@netheaven.com)'
build_requires:
 ExtUtils::MakeMaker: '0'
 Test::More: '0'
 warnings: '0'
configure_requires:
 ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.34, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: '1.4'
name: XML-Parser
no_index:
 directory:
   - t
   - inc
requires:
 LWP::UserAgent: '0'
 perl: '5.00405'
resources:
 bugtracker: https://github.com/toddr/XML-Parser/issues
 repository: http://github.com/toddr/XML-Parser

version: '2.46'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
* /opt/cola/permits/1411690030_1662671678.0428326/0/libxml-parser-perl-2-46-orig-1-tar-gz/XML-Parser-2.46/META.yml
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```
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** Expat.xs
**
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**
*/
```

Found in path(s):
* /opt/cola/permits/1411690030_1662671678.0428326/0/libxml-parser-perl-2-46-orig-1-tar-gz/XML-Parser-2.46/Expat/Expat.xs
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```
# LWPExternEnt.pl
#
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package XML::Parser;

use URI;
use URI::file;
use LWP::UserAgent;

##
## Note that this external entity handler reads the entire entity into
## memory, so it will choke on huge ones. It would be really nice if
## LWP::UserAgent optionally returned us an IO::Handle.
##

sub lwp_ext_ent_handler {
 my ($xp, $base, $sys) = @_;  # We don't use public id

 my $uri;
```

```
 if (defined $base) {
   # Base may have been set by parsefile, which is agnostic about
   # whether its a file or URI.
   my $base_uri = new URI($base);
   unless (defined $base_uri->scheme) {
     $base_uri = URI->new_abs($base_uri, URI::file->cwd);
   }

   $uri = URI->new_abs($sys, $base_uri);
 }
 else {
   $uri = new URI($sys);
   unless (defined $uri->scheme)
 {
     $uri = URI->new_abs($uri, URI::file->cwd);
   }
 }

 my $ua = $xp->{_lwpagent};
 unless (defined $ua) {
   $ua = $xp->{_lwpagent} = new LWP::UserAgent();
   $ua->env_proxy();
 }

 my $req = new HTTP::Request('GET', $uri);

 my $res = $ua->request($req);
 if ($res->is_error) {
   $xp->{ErrorMessage} .= "\n" . $res->status_line . " $uri";
   return undef;
 }

 $xp->{_BaseStack} ||= [];
 push(@{$xp->{_BaseStack}}, $base);

 $xp->base($uri);

 return $res->content;
}  # End lwp_ext_ent_handler

sub lwp_ext_ent_cleanup {
 my ($xp) = @_;

 $xp->base(pop(@{$xp->{_BaseStack}}));
}  # End lwp_ext_ent_cleanup

1;
```

Found in path(s):
* /opt/cola/permits/1411690030_1662671678.0428326/0/libxml-parser-perl-2-46-orig-1-tar-gz/XML-Parser-2.46/Parser/LWPExternEnt.pl
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<!ENTITY book "La Peste: Albert Camus,
© 1947 %pub;. &rights;" >]]>

Found in path(s):
* /opt/cola/permits/1411690030_1662671678.0428326/0/libxml-parser-perl-2-46-orig-1-tar-gz/XML-Parser-2.46/samples/REC-xml-19980210.xml

1.909 mailcap 3.70+nmu1ubuntu1

1.909.1 Available under license :

Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Source: https://salsa.debian.org/debian/mailcap

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It contains public information compiled from around the 'net and many people.
.
The "update-mime" program was written by Brian White and has been
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1.910 cdrkit 1.1.11-3.2ubuntu1

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1.911 dbus-python 1.2.18-3build1

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1.919 python-cffi 1.15.0-1build2

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1.920 tcl 8.6.12+dfsg-1build1

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1.921 xorg 7.7+23ubuntu2

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Source Package: xorg

Debian/Ubuntu package authors: Branden Robinson, Fabio M. Di Nitto, Daniel Stone and others

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1.922 pciutils 3.7.0-6

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The

threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the
object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany
the work with the complete corresponding
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate

properly with a modified version of the library, if
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interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally
distributed (in either source or binary form) with the major
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which the executable runs, unless that component itself accompanies
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It may happen that this requirement contradicts the license
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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under the terms of Sections 1 and 2 above provided that you accompany
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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.936 protobuf-go 1.27.1

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1.937 libsensors-config 3.6.0-7ubuntu1

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1.940 python-six 1.16.0-3ubuntu1

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1.941 jq 1.6-2.1ubuntu3

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1.942 python3-netifaces 0.11.0-1build2

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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When a "work that uses the Library" uses material from a header file

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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* /opt/cola/permits/1416429943_1712755749.2194924/0/libnlgenl-tar/libnlgenl.txt

1.944 libsensors5 3.6.0-7ubuntu1

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* Mark M. Hoffman
 Many improvements to the libsensors configuration file scanner.
* Jean Delvare
 New libsensors API, and migration of sensors and sensord thereto.
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```
@C{[(----------------------------------------------------------------------}
@manual{

@sect1{@title{Introduction}

Lua is a powerful, efficient, lightweight, embeddable scripting language.
It supports procedural programming,
object-oriented programming, functional programming,
data-driven programming, and data description.

Lua combines simple procedural syntax with powerful data description
constructs based on associative arrays and extensible semantics.
Lua is dynamically typed,
runs by interpreting bytecode with a register-based
virtual machine,
and has automatic memory management with
incremental garbage collection,
making it ideal for configuration, scripting,
and rapid prototyping.

Lua is implemented as a library, written in @emphx{clean C},
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standalone Lua interpreter,
for interactive or batch use.
Lua is intended to be used both as a powerful, lightweight,
embeddable scripting language for any program that needs one,
and as a powerful but lightweight and efficient stand-alone language.

As an extension language, Lua has no notion of a @Q{main} program:
it works @emph{embedded} in a host client,
called the @emph{embedding program} or simply the @emphx{host}.
(Frequently, this host is the stand-alone @id{lua} program.)
The host program can invoke functions to execute a piece of Lua code,
can write and read Lua variables,
and can register @N{C functions} to be called by Lua code.
Through the use of @N{C functions}, Lua can be augmented to cope with
a wide range of different domains,
thus creating customized programming languages sharing a syntactical framework.

Lua is free software,
and is provided as usual with no guarantees,
as stated in its license.
The implementation
 described in this manual is available
at Lua's official web site, @id{www.lua.org}.
```

Like any other reference manual,
this document is dry in places.
For a discussion of the decisions behind the design of Lua,
see the technical papers available at Lua's web site.
For a detailed introduction to programming in Lua,
see Roberto's book, @emphx{Programming in Lua}.

}

@C{----------}
@sect1{basic| @title{Basic Concepts}

This section describes the basic concepts of the language.

@sect2{TypesSec| @title{Values and Types}

Lua is a @emph{dynamically typed language}.
This means that
variables do not have types; only values do.
There are no type definitions in the language.
All values carry their own type.

All values in Lua are @emph{first-class values}.
This means that all values can be stored in variables,
passed as arguments to other functions, and returned as results.

There are eight @x{basic types} in Lua:
@def{nil}, @def{boolean},
@def{number},
@def{string}, @def{function}, @def{userdata},
@def{thread}, and @def{table}.
The type @emph{nil} has one single value, @nil,
whose main property is to be different from any other value;
it usually represents the absence of a useful value.
The type @emph{boolean} has two values, @false and @true.
Both @nil and @false make a condition false;
any other value makes it true.
The type @emph{number} represents both
integer numbers and real (floating-point) numbers.
The type @emph{string} represents immutable sequences of bytes.
@index{eight-bit clean}
Lua is 8-bit clean:
strings can contain any 8-bit value,
including @x{embedded zeros} (@Char{\0}).
Lua is also encoding-agnostic;
it makes no assumptions about the contents of a string.

The type @emph{number} uses two internal representations,
or two @x{subtypes},
one called @def{integer} and the other called @def{float}.
Lua has explicit rules about when each representation is used,
but it also converts between them automatically
as needed @see{coercion}.
Therefore,
the programmer may choose to mostly ignore the difference
between integers and floats
or to assume complete control over the representation of each number.
Standard Lua uses 64-bit integers and double-precision (64-bit) floats,
but you can also compile Lua so that it
uses 32-bit integers and/or single-precision (32-bit) floats.
The option with 32 bits for both integers and floats
is particularly attractive
for small machines and embedded systems.
(See macro @id{LUA_32BITS} in file @id{luaconf.h}.)

Lua can call (and manipulate) functions written in Lua and
functions written in C @see{functioncall}.
Both are represented by the type @emph{function}.

The type @emph{userdata} is provided to allow arbitrary @N{C data} to
be stored in Lua variables.
A userdata value represents a block of raw memory.
There are two kinds of userdata:
@emphx{full userdata},
which is an object with a block of memory managed by Lua,
and @emphx{light userdata},
which
is simply a @N{C pointer} value.
Userdata has no predefined operations in Lua,
except assignment and identity test.
By using @emph{metatables},
the programmer can define operations for full userdata values
@see{metatable}.
Userdata values cannot be created or modified in Lua,
only through the @N{C API}.
This guarantees the integrity of data owned by the host program.

The type @def{thread} represents independent threads of execution
and it is used to implement coroutines @see{coroutine}.
Lua threads are not related to operating-system threads.
Lua supports coroutines on all systems,
even those that do not support threads natively.

The type @emph{table} implements @x{associative arrays},

that is, @x{arrays} that can have as indices not only numbers,
but any Lua value except @nil and @x{NaN}.
(@emphx{Not a Number} is a special value used to represent
undefined or unrepresentable numerical results, such as @T{0/0}.)
Tables can be @emph{heterogeneous};
that is, they can contain values of
all types (except @nil).
Any key with value @nil is not considered part of the table.
Conversely, any key that is not part of a table has
an associated value @nil.

Tables are the sole data-structuring mechanism in Lua;
they can be used to represent ordinary arrays, lists,
symbol tables, sets, records, graphs, trees, etc.
To represent @x{records}, Lua uses the field name as an index.
The language supports this representation by
providing @id{a.name} as syntactic sugar for @T{a["name"]}.
There are several convenient ways to create tables in Lua
@see{tableconstructor}.

Like indices,
the values of table fields can be of any type.
In particular,
because functions are first-class values,
table fields can contain functions.
Thus tables can also carry @emph{methods} @see{func-def}.

The indexing of tables follows
the definition of raw equality in the language.
The expressions @T{a[i]} and @T{a[j]}
denote the same table element
if and only if @id{i} and @id{j} are raw equal
(that is, equal
without metamethods).
In particular, floats with integral values
are equal to their respective integers
(e.g., @T{1.0 == 1}).
To avoid ambiguities,
any float with integral value used as a key
is converted to its respective integer.
For instance, if you write @T{a[2.0] = true},
the actual key inserted into the table will be the
integer @T{2}.
(On the other hand,
2 and @St{2} are different Lua values and therefore
denote different table entries.)

Tables, functions, threads, and (full) userdata values are @emph{objects}:
variables do not actually @emph{contain} these values,
only @emph{references} to them.
Assignment, parameter passing, and function returns
always manipulate references to such values;
these operations do not imply any kind of copy.

The library function @Lid{type} returns a string describing the type
of a given value @see{predefined}.

}

@sect2{globalenv| @title{Environments and the Global Environment}

As will be discussed in @refsec{variables} and @refsec{assignment},
any
reference to a free name
(that is, a name not bound to any declaration) @id{var}
is syntactically translated to @T{_ENV.var}.
Moreover, every chunk is compiled in the scope of
an external local variable named @id{_ENV} @see{chunks},
so @id{_ENV} itself is never a free name in a chunk.

Despite the existence of this external @id{_ENV} variable and
the translation of free names,
@id{_ENV} is a completely regular name.
In particular,
you can define new variables and parameters with that name.
Each reference to a free name uses the @id{_ENV} that is
visible at that point in the program,
following the usual visibility rules of Lua @see{visibility}.

Any table used as the value of @id{_ENV} is called an @def{environment}.

Lua keeps a distinguished environment called the @def{global environment}.
This value is kept at a special index in the C registry @see{registry}.
In Lua, the global variable @Lid{_G} is initialized with this same value.
(@Lid{_G} is never used internally.)

When Lua
loads a chunk,
the default value for its @id{_ENV} upvalue
is the global environment @seeF{load}.
Therefore, by default,
free names in Lua code refer to entries in the global environment
(and, therefore, they are also called @def{global variables}).
Moreover, all standard libraries are loaded in the global environment
and some functions there operate on that environment.

You can use @Lid{load} (or @Lid{loadfile})
to load a chunk with a different environment.
(In C, you have to load the chunk and then change the value
of its first upvalue.)

}

@sect2{error| @title{Error Handling}

Because Lua is an embedded extension language,
all Lua actions start from @N{C code} in the host program
calling a function from the Lua library.
(When you use Lua standalone,
the @id{lua} application is the host program.)
Whenever an error occurs during
the compilation or execution of a Lua chunk,
control returns to the host,
which can take appropriate measures
(such as printing an error message).

Lua code
can explicitly generate an error by calling the
@Lid{error} function.
If you need to catch errors in Lua,
you can use @Lid{pcall} or @Lid{xpcall}
to call a given function in @emphx{protected mode}.

Whenever there is an error,
an @def{error object} (also called an @def{error message})
is propagated with information about the error.
Lua itself only generates errors whose error object is a string,
but programs may generate errors with
any value as the error object.
It is up to the Lua program or its host to handle such error objects.

When you use @Lid{xpcall} or @Lid{lua_pcall},
you may give a @def{message handler}
to be called in case of errors.
This function is called with the original error object
and returns a new error object.
It is called before the error unwinds the stack,
so that it can gather more information about the error,
for instance by inspecting the stack and creating a stack traceback.
This message handler is still protected by the protected call;
so, an error inside
the message handler
will call the message handler again.

If this loop goes on for too long,
Lua breaks it and returns an appropriate message.
(The message handler is called only for regular runtime errors.
It is not called for memory-allocation errors
nor for errors while running finalizers.)

}

@sect2{metatable| @title{Metatables and Metamethods}

Every value in Lua can have a @emph{metatable}.
This @def{metatable} is an ordinary Lua table
that defines the behavior of the original value
under certain special operations.
You can change several aspects of the behavior
of operations over a value by setting specific fields in its metatable.
For instance, when a non-numeric value is the operand of an addition,
Lua checks for a function in the field @St{__add} of the value's metatable.
If it finds one,
Lua calls this function to perform the addition.

The key for each event in a metatable is a string
with the event name prefixed by two underscores;
the corresponding values are called @def{metamethods}.
In
 the previous example, the key is @St{__add}
and the metamethod is the function that performs the addition.
Unless stated otherwise,
metamethods should be function values.

You can query the metatable of any value
using the @Lid{getmetatable} function.
Lua queries metamethods in metatables using a raw access @seeF{rawget}.
So, to retrieve the metamethod for event @id{ev} in object @id{o},
Lua does the equivalent to the following code:
@verbatim{
rawget(getmetatable(@rep{o}) or {}, "__@rep{ev}")
}

You can replace the metatable of tables
using the @Lid{setmetatable} function.
You cannot change the metatable of other types from Lua code
(except by using the @link{debuglib|debug library});
you should use the @N{C API} for that.

Tables and full userdata have individual metatables
(although multiple tables and userdata can share their metatables).
Values of all other types share one single metatable per type;

that is, there is one single metatable for all numbers,
one for all
 strings, etc.
By default, a value has no metatable,
but the string library sets a metatable for the string type @see{strlib}.

A metatable controls how an object behaves in
arithmetic operations, bitwise operations,
order comparisons, concatenation, length operation, calls, and indexing.
A metatable also can define a function to be called
when a userdata or a table is @link{GC|garbage collected}.

For the unary operators (negation, length, and bitwise NOT),
the metamethod is computed and called with a dummy second operand,
equal to the first one.
This extra operand is only to simplify Lua's internals
(by making these operators behave like a binary operation)
and may be removed in future versions.
(For most uses this extra operand is irrelevant.)

A detailed list of events controlled by metatables is given next.
Each operation is identified by its corresponding key.

@description{

@item{@idx{__add}|
the addition (@T{+}) operation.
If any operand for an addition is not a number
(nor
 a string coercible to a number),
Lua will try to call a metamethod.
First, Lua will check the first operand (even if it is valid).
If that operand does not define a metamethod for @idx{__add},
then Lua will check the second operand.
If Lua can find a metamethod,
it calls the metamethod with the two operands as arguments,
and the result of the call
(adjusted to one value)
is the result of the operation.
Otherwise,
it raises an error.
}

@item{@idx{__sub}|
the subtraction (@T{-}) operation.
Behavior similar to the addition operation.
}

@item{@idx{__mul}|
the multiplication (@T{*}) operation.
Behavior similar to the addition operation.
}

@item{@idx{__div}|
the division (@T{/}) operation.
Behavior similar to the addition operation.
}

@item{@idx{__mod}|
the modulo (@T{%}) operation.
Behavior similar to the addition operation.
}

@item{@idx{__pow}|
the exponentiation (@T{^}) operation.
Behavior similar to the addition operation.
}

@item{@idx{__unm}|
the negation (unary @T{-}) operation.
Behavior
 similar to the addition operation.
}

@item{@idx{__idiv}|
the floor division (@T{//}) operation.
Behavior similar to the addition operation.
}

@item{@idx{__band}|
the bitwise AND (@T{&}) operation.
Behavior similar to the addition operation,
except that Lua will try a metamethod
if any operand is neither an integer
nor a value coercible to an integer @see{coercion}.
}

@item{@idx{__bor}|
the bitwise OR (@T{|}) operation.
Behavior similar to the bitwise AND operation.
}

@item{@idx{__bxor}|
the bitwise exclusive OR (binary @T{~}) operation.
Behavior similar to the bitwise AND operation.
}

@item{@idx{__bnot}|
the bitwise NOT (unary @T{~}) operation.
Behavior similar to the bitwise AND operation.
}

@item{@idx{__shl}|
the bitwise left shift (@T{<<}) operation.
Behavior similar to the bitwise AND operation.
}

@item{@idx{__shr}|
the bitwise right shift (@T{>>}) operation.
Behavior similar to the bitwise AND operation.
}

@item{@idx{__concat}|
the concatenation (@T{..}) operation.
Behavior
 similar to the addition operation,
except that Lua will try a metamethod
if any operand is neither a string nor a number
(which is always coercible to a string).
}

@item{@idx{__len}|
the length (@T{#}) operation.
If the object is not a string,
Lua will try its metamethod.
If there is a metamethod,
Lua calls it with the object as argument,
and the result of the call
(always adjusted to one value)
is the result of the operation.
If there is no metamethod but the object is a table,
then Lua uses the table length operation @see{len-op}.
Otherwise, Lua raises an error.
}

@item{@idx{__eq}|
the equal (@T{==}) operation.
Behavior similar to the addition operation,
except that Lua will try a metamethod only when the values
being compared are either both tables or both full userdata
and they are not primitively equal.
The result of the call is always converted to a boolean.
}

@item{@idx{__lt}|
the less than (@T{<}) operation.
Behavior similar to the addition operation,
except that
 Lua will try a metamethod only when the values
being compared are neither both numbers nor both strings.
The result of the call is always converted to a boolean.
}

@item{@idx{__le}|
the less equal (@T{<=}) operation.
Unlike other operations,
the less-equal operation can use two different events.
First, Lua looks for the @idx{__le} metamethod in both operands,
like in the less than operation.
If it cannot find such a metamethod,
then it will try the @idx{__lt} metamethod,
assuming that @T{a <= b} is equivalent to @T{not (b < a)}.
As with the other comparison operators,
the result is always a boolean.
(This use of the @idx{__lt} event can be removed in future versions;
it is also slower than a real @idx{__le} metamethod.)
}

@item{@idx{__index}|
The indexing access operation @T{table[key]}.
This event happens when @id{table} is not a table or
when @id{key} is not present in @id{table}.
The metamethod is looked up in @id{table}.

Despite the name,
the metamethod for this event can be either
 a function or a table.
If it is a function,
it is called with @id{table} and @id{key} as arguments,
and the result of the call
(adjusted to one value)
is the result of the operation.
If it is a table,
the final result is the result of indexing this table with @id{key}.
(This indexing is regular, not raw,
and therefore can trigger another metamethod.)
}

@item{@idx{__newindex}|
The indexing assignment @T{table[key] = value}.
Like the index event,
this event happens when @id{table} is not a table or

when @id{key} is not present in @id{table}.
The metamethod is looked up in @id{table}.

Like with indexing,
the metamethod for this event can be either a function or a table.
If it is a function,
it is called with @id{table}, @id{key}, and @id{value} as arguments.
If it is a table,
Lua does an indexing assignment to this table with the same key and value.
(This assignment is regular, not raw,
and therefore can trigger another metamethod.)

Whenever there is a @idx{__newindex} metamethod,
Lua
does not perform the primitive assignment.
(If necessary,
the metamethod itself can call @Lid{rawset}
to do the assignment.)
}

@item{@idx{__call}|
The call operation @T{func(args)}.
This event happens when Lua tries to call a non-function value
(that is, @id{func} is not a function).
The metamethod is looked up in @id{func}.
If present,
the metamethod is called with @id{func} as its first argument,
followed by the arguments of the original call (@id{args}).
All results of the call
are the result of the operation.
(This is the only metamethod that allows multiple results.)
}

}

It is a good practice to add all needed metamethods to a table
before setting it as a metatable of some object.
In particular, the @idx{__gc} metamethod works only when this order
is followed @see{finalizers}.

Because metatables are regular tables,
they can contain arbitrary fields,
not only the event names defined above.
Some functions in the standard library
(e.g., @Lid{tostring})
use other fields in metatables
for their own purposes.

}

@sect2{GC| @title{Garbage Collection}

Lua performs automatic memory management.
This means that
you do not have to worry about allocating memory for new objects
or freeing it when the objects are no longer needed.
Lua manages memory automatically by running
a @def{garbage collector} to collect all @emph{dead objects}
(that is, objects that are no longer accessible from Lua).
All memory used by Lua is subject to automatic management:
strings, tables, userdata, functions, threads, internal structures, etc.

Lua implements an incremental mark-and-sweep collector.
It uses two numbers to control its garbage-collection cycles:
the @def{garbage-collector pause} and
the @def{garbage-collector step multiplier}.
Both use percentage points as units
(e.g., a value of 100 means an internal value of 1).

The garbage-collector pause
controls how long the collector waits before starting a new cycle.
Larger values make the collector less aggressive.
Values smaller than
 100 mean the collector will not wait to
start a new cycle.
A value of 200 means that the collector waits for the total memory in use
to double before starting a new cycle.

The garbage-collector step multiplier
controls the relative speed of the collector relative to
memory allocation.
Larger values make the collector more aggressive but also increase
the size of each incremental step.
You should not use values smaller than 100,
because they make the collector too slow and
can result in the collector never finishing a cycle.
The default is 200,
which means that the collector runs at @Q{twice}
the speed of memory allocation.

If you set the step multiplier to a very large number
(larger than 10% of the maximum number of
bytes that the program may use),
the collector behaves like a stop-the-world collector.
If you then set the pause to 200,
the collector behaves as in old Lua versions,

doing a complete collection every time Lua doubles its
memory usage.

You can change these numbers
by calling @Lid{lua_gc} in C
or @Lid{collectgarbage} in Lua.
You can also use these functions to control
the collector directly (e.g., stop and restart it).

@sect3{finalizers| @title{Garbage-Collection Metamethods}

You can set garbage-collector metamethods for tables
and, using the @N{C API},
for full userdata @see{metatable}.
These metamethods are also called @def{finalizers}.
Finalizers allow you to coordinate Lua's garbage collection
with external resource management
(such as closing files, network or database connections,
or freeing your own memory).

For an object (table or userdata) to be finalized when collected,
you must @emph{mark} it for finalization.
@index{mark (for finalization)}
You mark an object for finalization when you set its metatable
and the metatable has a field indexed by the string @St{__gc}.
Note that if you set a metatable without a @idx{__gc} field
and later create that field in the metatable,
the object will not be marked for finalization.

When a marked
object becomes garbage,
it is not collected immediately by the garbage collector.
Instead, Lua puts it in a list.
After the collection,
Lua goes through that list.
For each object in the list,
it checks the object's @idx{__gc} metamethod:
If it is a function,
Lua calls it with the object as its single argument;
if the metamethod is not a function,
Lua simply ignores it.

At the end of each garbage-collection cycle,
the finalizers for objects are called in
the reverse order that the objects were marked for finalization,
among those collected in that cycle;
that is, the first finalizer to be called is the one associated

with the object marked last in the program.
The execution of each finalizer may occur at any point during
the execution of the regular code.

Because the object being collected must still be used by the finalizer,
that object (and other objects accessible only through it)
must be @emph{resurrected} by Lua.@index{resurrection}
Usually, this resurrection is transient,
and the
 object memory is freed in the next garbage-collection cycle.
However, if the finalizer stores the object in some global place
(e.g., a global variable),
then the resurrection is permanent.
Moreover, if the finalizer marks a finalizing object for finalization again,
its finalizer will be called again in the next cycle where the
object is unreachable.
In any case,
the object memory is freed only in a GC cycle where
the object is unreachable and not marked for finalization.

When you close a state @seeF{lua_close},
Lua calls the finalizers of all objects marked for finalization,
following the reverse order that they were marked.
If any finalizer marks objects for collection during that phase,
these marks have no effect.

}

@sect3{weak-table| @title{Weak Tables}

A @def{weak table} is a table whose elements are
@def{weak references}.
A weak reference is ignored by the garbage collector.
In other words,
if the only references to an object are weak references,
then the garbage collector
 will collect that object.

A weak table can have weak keys, weak values, or both.
A table with weak values allows the collection of its values,
but prevents the collection of its keys.
A table with both weak keys and weak values allows the collection of
both keys and values.
In any case, if either the key or the value is collected,
the whole pair is removed from the table.
The weakness of a table is controlled by the
@idx{__mode} field of its metatable.
If the @idx{__mode} field is a string containing the @N{character @Char{k}},

the keys in the table are weak.
If @idx{__mode} contains @Char{v},
the values in the table are weak.

A table with weak keys and strong values
is also called an @def{ephemeron table}.
In an ephemeron table,
a value is considered reachable only if its key is reachable.
In particular,
if the only reference to a key comes through its value,
the pair is removed.

Any change in the weakness of a table may take effect only
at the next collect cycle.
In particular, if
you change the weakness to a stronger mode,
Lua may still collect some items from that table
before the change takes effect.

Only objects that have an explicit construction
are removed from weak tables.
Values, such as numbers and @x{light @N{C functions}},
are not subject to garbage collection,
and therefore are not removed from weak tables
(unless their associated values are collected).
Although strings are subject to garbage collection,
they do not have an explicit construction,
and therefore are not removed from weak tables.

Resurrected objects
(that is, objects being finalized
and objects accessible only through objects being finalized)
have a special behavior in weak tables.
They are removed from weak values before running their finalizers,
but are removed from weak keys only in the next collection
after running their finalizers, when such objects are actually freed.
This behavior allows the finalizer to access properties
associated with the object through weak tables.

If a weak
table is among the resurrected objects in a collection cycle,
it may not be properly cleared until the next cycle.

}

}

@sect2{coroutine| @title{Coroutines}

Lua supports coroutines,
also called @emphx{collaborative multithreading}.
A coroutine in Lua represents an independent thread of execution.
Unlike threads in multithread systems, however,
a coroutine only suspends its execution by explicitly calling
a yield function.

You create a coroutine by calling @Lid{coroutine.create}.
Its sole argument is a function
that is the main function of the coroutine.
The @id{create} function only creates a new coroutine and
returns a handle to it (an object of type @emph{thread});
it does not start the coroutine.

You execute a coroutine by calling @Lid{coroutine.resume}.
When you first call @Lid{coroutine.resume},
passing as its first argument
a thread returned by @Lid{coroutine.create},
the coroutine starts its execution by
calling its main function.
Extra arguments passed to @Lid{coroutine.resume}
are passed
as arguments to that function.
After the coroutine starts running,
it runs until it terminates or @emph{yields}.

A coroutine can terminate its execution in two ways:
normally, when its main function returns
(explicitly or implicitly, after the last instruction);
and abnormally, if there is an unprotected error.
In case of normal termination,
@Lid{coroutine.resume} returns @true,
plus any values returned by the coroutine main function.
In case of errors, @Lid{coroutine.resume} returns @false
plus an error object.

A coroutine yields by calling @Lid{coroutine.yield}.
When a coroutine yields,
the corresponding @Lid{coroutine.resume} returns immediately,
even if the yield happens inside nested function calls
(that is, not in the main function,
but in a function directly or indirectly called by the main function).
In the case of a yield, @Lid{coroutine.resume} also returns @true,
plus any values passed to @Lid{coroutine.yield}.
The next time you resume the same coroutine,
it

continues its execution from the point where it yielded,
with the call to @Lid{coroutine.yield} returning any extra
arguments passed to @Lid{coroutine.resume}.

Like @Lid{coroutine.create},
the @Lid{coroutine.wrap} function also creates a coroutine,
but instead of returning the coroutine itself,
it returns a function that, when called, resumes the coroutine.
Any arguments passed to this function
go as extra arguments to @Lid{coroutine.resume}.
@Lid{coroutine.wrap} returns all the values returned by @Lid{coroutine.resume},
except the first one (the boolean error code).
Unlike @Lid{coroutine.resume},
@Lid{coroutine.wrap} does not catch errors;
any error is propagated to the caller.

As an example of how coroutines work,
consider the following code:
@verbatim{
```
function foo (a)
 print("foo", a)
 return coroutine.yield(2*a)
end

co = coroutine.create(function (a,b)
    print("co-body", a, b)
    local r = foo(a+1)
    print("co-body", r)
    local r, s = coroutine.yield(a+b,
 a-b)
    print("co-body", r, s)
    return b, "end"
end)

print("main", coroutine.resume(co, 1, 10))
print("main", coroutine.resume(co, "r"))
print("main", coroutine.resume(co, "x", "y"))
print("main", coroutine.resume(co, "x", "y"))
```
}
When you run it, it produces the following output:
@verbatim{
```
co-body 1       10
foo     2
main    true    4
co-body r
main    true    11      -9
co-body x       y
main    true    10      end
```

```
main    false   cannot resume dead coroutine
}

You can also create and manipulate coroutines through the C API:
see functions @Lid{lua_newthread}, @Lid{lua_resume},
and @Lid{lua_yield}.

}

}


@C{----------------------------------------------------------------------}
@sect1{language| @title{The Language}

This section describes the lexis, the syntax, and the semantics of Lua.
In other words,
this section describes
which tokens are valid,
how they can be combined,
and what their combinations mean.

Language constructs will be explained using the usual extended
 BNF notation,
in which
@N{@bnfrep{@rep{a}} means 0} or more @rep{a}'s, and
@N{@bnfopt{@rep{a}} means} an optional @rep{a}.
Non-terminals are shown like @bnfNter{non-terminal},
keywords are shown like @rw{kword},
and other terminal symbols are shown like @bnfter{=}.
The complete syntax of Lua can be found in @refsec{BNF}
at the end of this manual.

@sect2{lexical| @title{Lexical Conventions}

Lua is a @x{free-form} language.
It ignores spaces (including new lines) and comments
between lexical elements (@x{tokens}),
except as delimiters between @x{names} and @x{keywords}.

@def{Names}
(also called @def{identifiers})
in Lua can be any string of letters,
digits, and underscores,
not beginning with a digit and
not being a reserved word.
Identifiers are used to name variables, table fields, and labels.
```

The following @def{keywords} are reserved
and cannot be used as names:
@index{reserved words}
@verbatim{
and break do else elseif end
false for function
goto if in
local nil not or repeat return
then true until while
}

Lua is a case-sensitive language:
@id{and} is a reserved word, but @id{And} and @id{AND}
are two different, valid names.
As a convention,
programs should avoid creating
names that start with an underscore followed by
one or more uppercase letters (such as @Lid{_VERSION}).

The following strings denote other @x{tokens}:
@verbatim{
+ - * / % ^ #
& ~ | << >> //
== ~= <= >= < > =
( ) { } [ ] ::
; : , ...
}

A @def{short literal string}
can be delimited by matching single or double quotes,
and can contain the following C-like escape sequences:
@Char{\a} (bell),
@Char{\b} (backspace),
@Char{\f} (form feed),
@Char{\n} (newline),
@Char{\r} (carriage return),
@Char{\t} (horizontal tab),
@Char{\v} (vertical tab),
@Char{\\} (backslash),
@Char{\"} (quotation mark [double
quote]),
and @Char{\'} (apostrophe [single quote]).
A backslash followed by a line break
results in a newline in the string.
The escape sequence @Char{\z} skips the following span
of white-space characters,
including line breaks;
it is particularly useful to break and indent a long literal string

into multiple lines without adding the newlines and spaces
into the string contents.
A short literal string cannot contain unescaped line breaks
nor escapes not forming a valid escape sequence.

We can specify any byte in a short literal string by its numeric value
(including @x{embedded zeros}).
This can be done
with the escape sequence @T{\x@rep{XX}},
where @rep{XX} is a sequence of exactly two hexadecimal digits,
or with the escape sequence @T{\@rep{ddd}},
where @rep{ddd} is a sequence of up to three decimal digits.
(Note that if a decimal escape sequence is to be followed by a digit,
it must be expressed using exactly three digits.)

The @x{UTF-8} encoding of a @x{Unicode} character
can
be inserted in a literal string with
the escape sequence @T{\u{@rep{XXX}}}
(note the mandatory enclosing brackets),
where @rep{XXX} is a sequence of one or more hexadecimal digits
representing the character code point.

Literal strings can also be defined using a long format
enclosed by @def{long brackets}.
We define an @def{opening long bracket of level @rep{n}} as an opening
square bracket followed by @rep{n} equal signs followed by another
opening square bracket.
So, an opening long bracket of @N{level 0} is written as @T{[[}, @C{]]}
an opening long bracket of @N{level 1} is written as @T{[=[}, @C{]]}
and so on.
A @emph{closing long bracket} is defined similarly;
for instance,
a closing long bracket of @N{level 4} is written as @C{[[} @T{]====]}.
A @def{long literal} starts with an opening long bracket of any level and
ends at the first closing long bracket of the same level.
It can contain any text except a closing bracket of the same level.
Literals in this bracketed form can run
for several lines,
do not interpret any escape sequences,
and ignore long brackets of any other level.
Any kind of end-of-line sequence
(carriage return, newline, carriage return followed by newline,
or newline followed by carriage return)
is converted to a simple newline.

For convenience,
when the opening long bracket is immediately followed by a newline,

the newline is not included in the string.
As an example, in a system using ASCII
(in which @Char{a} is coded @N{as 97},
newline is coded @N{as 10}, and @Char{1} is coded @N{as 49}),
the five literal strings below denote the same string:
@verbatim{
a = 'alo\n123'"
a = "alo\n123\""
a = '\97lo\10\04923'"
a = [[alo
123"]]
a = [==[
alo
123"]==]
}

Any byte in a literal string not
explicitly affected by the previous rules represents itself.
However, Lua opens files for parsing in text mode,
and the system file functions may have problems with
some control characters.
So, it is safer to represent
non-text data as a quoted literal with
explicit
 escape sequences for the non-text characters.

A @def{numeric constant} (or @def{numeral})
can be written with an optional fractional part
and an optional decimal exponent,
marked by a letter @Char{e} or @Char{E}.
Lua also accepts @x{hexadecimal constants},
which start with @T{0x} or @T{0X}.
Hexadecimal constants also accept an optional fractional part
plus an optional binary exponent,
marked by a letter @Char{p} or @Char{P}.
A numeric constant with a radix point or an exponent
denotes a float;
otherwise,
if its value fits in an integer,
it denotes an integer.
Examples of valid integer constants are
@verbatim{
3 345 0xff 0xBEBADA
}
Examples of valid float constants are
@verbatim{
3.0 3.1416 314.16e-2 0.31416E1 34e1
0x0.1E 0xA23p-4 0X1.921FB54442D18P+1

}

A @def{comment} starts with a double hyphen (@T{--})
anywhere outside a string.
If the text immediately after @T{--} is not an opening long bracket,
the comment is a @def{short comment},
which runs until
 the end of the line.
Otherwise, it is a @def{long comment},
which runs until the corresponding closing long bracket.
Long comments are frequently used to disable code temporarily.

}

@sect2{variables| @title{Variables}

Variables are places that store values.
There are three kinds of variables in Lua:
global variables, local variables, and table fields.

A single name can denote a global variable or a local variable
(or a function's formal parameter,
which is a particular kind of local variable):
@Produc{
@producname{var}@producbody{@bnfNter{Name}}
}
@bnfNter{Name} denotes identifiers, as defined in @See{lexical}.

Any variable name is assumed to be global unless explicitly declared
as a local @see{localvar}.
@x{Local variables} are @emph{lexically scoped}:
local variables can be freely accessed by functions
defined inside their scope @see{visibility}.

Before the first assignment to a variable, its value is @nil.

Square brackets are used to index a table:
@Produc{
@producname{var}@producbody{prefixexp
 @bnfter{[} exp @bnfter{]}}
}
The meaning of accesses to table fields can be changed via metatables
@see{metatable}.

The syntax @id{var.Name} is just syntactic sugar for
@T{var["Name"]}:
@Produc{
@producname{var}@producbody{prefixexp @bnfter{.} @bnfNter{Name}}

}

An access to a global variable @id{x}
is equivalent to @id{_ENV.x}.
Due to the way that chunks are compiled,
@id{_ENV} is never a global name @see{globalenv}.

}

@sect2{stats| @title{Statements}

Lua supports an almost conventional set of @x{statements},
similar to those in Pascal or C.
This set includes
assignments, control structures, function calls,
and variable declarations.

@sect3{@title{Blocks}

A @x{block} is a list of statements,
which are executed sequentially:
@Produc{
@producname{block}@producbody{@bnfrep{stat}}
}
Lua has @def{empty statements}
that allow you to separate statements with semicolons,
start a block with a semicolon
or write two semicolons in sequence:
@Produc{
@producname{stat}@producbody{@bnfter{;}}
}

Function
 calls and assignments
can start with an open parenthesis.
This possibility leads to an ambiguity in Lua's grammar.
Consider the following fragment:
@verbatim{
a = b + c
(print or io.write)('done')
}
The grammar could see it in two ways:
@verbatim{
a = b + c(print or io.write)('done')

a = b + c; (print or io.write)('done')
}
The current parser always sees such constructions

in the first way,
interpreting the open parenthesis
as the start of the arguments to a call.
To avoid this ambiguity,
it is a good practice to always precede with a semicolon
statements that start with a parenthesis:
@verbatim{
;(print or io.write)('done')
}

A block can be explicitly delimited to produce a single statement:
@Produc{
@producname{stat}@producbody{@Rw{do} block @Rw{end}}
}
Explicit blocks are useful
to control the scope of variable declarations.
Explicit blocks are also sometimes used to
add a @Rw{return} statement in the middle
of another block @see{control}.

}

@sect3{chunks|
 @title{Chunks}

The unit of compilation of Lua is called a @def{chunk}.
Syntactically,
a chunk is simply a block:
@Produc{
@producname{chunk}@producbody{block}
}

Lua handles a chunk as the body of an anonymous function
with a variable number of arguments
@see{func-def}.
As such, chunks can define local variables,
receive arguments, and return values.
Moreover, such anonymous function is compiled as in the
scope of an external local variable called @id{_ENV} @see{globalenv}.
The resulting function always has @id{_ENV} as its only upvalue,
even if it does not use that variable.

A chunk can be stored in a file or in a string inside the host program.
To execute a chunk,
Lua first @emph{loads} it,
precompiling the chunk's code into instructions for a virtual machine,
and then Lua executes the compiled code
with an interpreter for the virtual machine.

Chunks can also be precompiled into binary form;
see program @idx{luac} and function @Lid{string.dump} for details.
Programs in
 source and compiled forms are interchangeable;
Lua automatically detects the file type and acts accordingly @seeF{load}.

}

@sect3{assignment| @title{Assignment}

Lua allows @x{multiple assignments}.
Therefore, the syntax for assignment
defines a list of variables on the left side
and a list of expressions on the right side.
The elements in both lists are separated by commas:
@Produc{
@producname{stat}@producbody{varlist @bnfter{=} explist}
@producname{varlist}@producbody{var @bnfrep{@bnfter{,} var}}
@producname{explist}@producbody{exp @bnfrep{@bnfter{,} exp}}
}
Expressions are discussed in @See{expressions}.

Before the assignment,
the list of values is @emph{adjusted} to the length of
the list of variables.@index{adjustment}
If there are more values than needed,
the excess values are thrown away.
If there are fewer values than needed,
the list is extended with as many @nil's as needed.
If the list of expressions ends with a function call,
then all values returned by that call enter
 the list of values,
before the adjustment
(except when the call is enclosed in parentheses; see @See{expressions}).

The assignment statement first evaluates all its expressions
and only then the assignments are performed.
Thus the code
@verbatim{
i = 3
i, a[i] = i+1, 20
}
sets @T{a[3]} to 20, without affecting @T{a[4]}
because the @id{i} in @T{a[i]} is evaluated (to 3)
before it is @N{assigned 4}.
Similarly, the line
@verbatim{

```
x, y = y, x
}
exchanges the values of @id{x} and @id{y},
and
@verbatim{
x, y, z = y, z, x
}
cyclically permutes the values of @id{x}, @id{y}, and @id{z}.

An assignment to a global name @T{x = val}
is equivalent to the assignment
@T{_ENV.x = val} @see{globalenv}.

The meaning of assignments to table fields and
global variables (which are actually table fields, too)
can be changed via metatables @see{metatable}.

}

@sect3{control| @title{Control Structures}
The control structures
@Rw{if}, @Rw{while}, and @Rw{repeat} have the usual meaning and
familiar syntax:
@index{while-do
 statement}
@index{repeat-until statement}
@index{if-then-else statement}
@Produc{
@producname{stat}@producbody{@Rw{while} exp @Rw{do} block @Rw{end}}
@producname{stat}@producbody{@Rw{repeat} block @Rw{until} exp}
@producname{stat}@producbody{@Rw{if} exp @Rw{then} block
 @bnfrep{@Rw{elseif} exp @Rw{then} block}
  @bnfopt{@Rw{else} block} @Rw{end}}
}
Lua also has a @Rw{for} statement, in two flavors @see{for}.

The @x{condition expression} of a
control structure can return any value.
Both @false and @nil are considered false.
All values different from @nil and @false are considered true
(in particular, the number 0 and the empty string are also true).

In the @Rw{repeat}@En@Rw{until} loop,
the inner block does not end at the @Rw{until} keyword,
but only after the condition.
So, the condition can refer to local variables
declared inside the loop block.
```

The @Rw{goto} statement transfers the program control to a label.
For syntactical reasons,
labels in Lua are considered
statements too:
@index{goto statement}
@index{label}
@Produc{
@producname{stat}@producbody{@Rw{goto} Name}
@producname{stat}@producbody{label}
@producname{label}@producbody{@bnfter{::} Name @bnfter{::}}
}

A label is visible in the entire block where it is defined,
except
inside nested blocks where a label with the same name is defined and
inside nested functions.
A goto may jump to any visible label as long as it does not
enter into the scope of a local variable.

Labels and empty statements are called @def{void statements},
as they perform no actions.

The @Rw{break} statement terminates the execution of a
@Rw{while}, @Rw{repeat}, or @Rw{for} loop,
skipping to the next statement after the loop:
@index{break statement}
@Produc{
@producname{stat}@producbody{@Rw{break}}
}
A @Rw{break} ends the innermost enclosing loop.

The @Rw{return} statement is used to return values
from a function or a chunk
(which is an anonymous function).
@index{return statement}
Functions can return more than
one value,
so the syntax for the @Rw{return} statement is
@Produc{
@producname{stat}@producbody{@Rw{return} @bnfopt{explist} @bnfopt{@bnfter{;}}}
}

The @Rw{return} statement can only be written
as the last statement of a block.
If it is really necessary to @Rw{return} in the middle of a block,
then an explicit inner block can be used,
as in the idiom @T{do return end},
because now @Rw{return} is the last statement in its (inner) block.

```
}

@sect3{for| @title{For Statement}

@index{for statement}
The @Rw{for} statement has two forms:
one numerical and one generic.

The numerical @Rw{for} loop repeats a block of code while a
control variable runs through an arithmetic progression.
It has the following syntax:
@Produc{
@producname{stat}@producbody{@Rw{for} @bnfNter{Name} @bnfter{=}
 exp @bnfter{,} exp @bnfopt{@bnfter{,} exp} @Rw{do} block @Rw{end}}
}
The @emph{block} is repeated for @emph{name} starting at the value of
the first @emph{exp}, until it passes the second @emph{exp} by steps
 of the
third @emph{exp}.
More precisely, a @Rw{for} statement like
@verbatim{
for v = @rep{e1}, @rep{e2}, @rep{e3} do @rep{block} end
}
is equivalent to the code:
@verbatim{
do
 local @rep{var}, @rep{limit}, @rep{step} = tonumber(@rep{e1}), tonumber(@rep{e2}), tonumber(@rep{e3})
 if not (@rep{var} and @rep{limit} and @rep{step}) then error() end
 @rep{var} = @rep{var} - @rep{step}
 while true do
   @rep{var} = @rep{var} + @rep{step}
   if (@rep{step} >= 0 and @rep{var} > @rep{limit}) or (@rep{step} < 0 and @rep{var} < @rep{limit}) then
     break
   end
   local v = @rep{var}
   @rep{block}
 end
end
}

Note the following:
@itemize{

@item{
All three control expressions are evaluated only once,
before the loop starts.
They must all result in numbers.
```

```
}

@item{
@T{@rep{var}}, @T{@rep{limit}}, and @T{@rep{step}} are invisible variables.
The names shown here are for explanatory purposes only.
}

@item{
If the third expression (the step) is absent,
then a step @N{of 1} is used.
}

@item{
You
 can use @Rw{break} and @Rw{goto} to exit a @Rw{for} loop.
}

@item{
The loop variable @T{v} is local to the loop body.
If you need its value after the loop,
assign it to another variable before exiting the loop.
}

}

The generic @Rw{for} statement works over functions,
called @def{iterators}.
On each iteration, the iterator function is called to produce a new value,
stopping when this new value is @nil.
The generic @Rw{for} loop has the following syntax:
@Produc{
@producname{stat}@producbody{@Rw{for} namelist @Rw{in} explist
                @Rw{do} block @Rw{end}}
@producname{namelist}@producbody{@bnfNter{Name} @bnfrep{@bnfter{,} @bnfNter{Name}}}
}
A @Rw{for} statement like
@verbatim{
for @rep{var_1}, @Cdots, @rep{var_n} in @rep{explist} do @rep{block} end
}
is equivalent to the code:
@verbatim{
do
 local @rep{f}, @rep{s}, @rep{var} = @rep{explist}
 while true do
   local @rep{var_1}, @Cdots, @rep{var_n} = @rep{f}(@rep{s}, @rep{var})
   if @rep{var_1} == nil then
 break end
   @rep{var} = @rep{var_1}
```

```
   @rep{block}
 end
end
}
Note the following:
@itemize{

@item{
@T{@rep{explist}} is evaluated only once.
Its results are an @emph{iterator} function,
a @emph{state},
and an initial value for the first @emph{iterator variable}.
}

@item{
@T{@rep{f}}, @T{@rep{s}}, and @T{@rep{var}} are invisible variables.
The names are here for explanatory purposes only.
}

@item{
You can use @Rw{break} to exit a @Rw{for} loop.
}

@item{
The loop variables @T{@rep{var_i}} are local to the loop;
you cannot use their values after the @Rw{for} ends.
If you need these values,
then assign them to other variables before breaking or exiting the loop.
}

}

}

@sect3{funcstat| @title{Function Calls as Statements}
To allow possible side-effects,
function calls can be executed as statements:
@Produc{
@producname{stat}@producbody{functioncall}
}
In this case, all returned values are thrown away.
Function calls are explained in @See{functioncall}.

}

@sect3{localvar| @title{Local
 Declarations}
@x{Local variables} can be declared anywhere inside a block.
```

The declaration can include an initial assignment:
@Produc{
@producname{stat}@producbody{@Rw{local} namelist @bnfopt{@bnfter{=} explist}}
}
If present, an initial assignment has the same semantics
of a multiple assignment @see{assignment}.
Otherwise, all variables are initialized with @nil.

A chunk is also a block @see{chunks},
and so local variables can be declared in a chunk outside any explicit block.

The visibility rules for local variables are explained in @See{visibility}.

}

}

@sect2{expressions| @title{Expressions}

The basic expressions in Lua are the following:
@Produc{
@producname{exp}@producbody{prefixexp}
@producname{exp}@producbody{@Rw{nil} @Or @Rw{false} @Or @Rw{true}}
@producname{exp}@producbody{@bnfNter{Numeral}}
@producname{exp}@producbody{@bnfNter{LiteralString}}
@producname{exp}@producbody{functiondef}
@producname{exp}@producbody{tableconstructor}
@producname{exp}@producbody{@bnfter{...}}
@producname{exp}@producbody{exp
 binop exp}
@producname{exp}@producbody{unop exp}
@producname{prefixexp}@producbody{var @Or functioncall @Or
                @bnfter{(} exp @bnfter{)}}
}

Numerals and literal strings are explained in @See{lexical};
variables are explained in @See{variables};
function definitions are explained in @See{func-def};
function calls are explained in @See{functioncall};
table constructors are explained in @See{tableconstructor}.
Vararg expressions,
denoted by three dots (@Char{...}), can only be used when
directly inside a vararg function;
they are explained in @See{func-def}.

Binary operators comprise arithmetic operators @see{arith},
bitwise operators @see{bitwise},
relational operators @see{rel-ops}, logical operators @see{logic},

and the concatenation operator @see{concat}.
Unary operators comprise the unary minus @see{arith},
the unary bitwise NOT @see{bitwise},
the unary logical @Rw{not} @see{logic},
and the unary @def{length operator}
@see{len-op}.

Both function calls and vararg expressions can result in multiple values.
If a function call is used as a statement @see{funcstat},
then its return list is adjusted to zero elements,
thus discarding all returned values.
If an expression is used as the last (or the only) element
of a list of expressions,
then no adjustment is made
(unless the expression is enclosed in parentheses).
In all other contexts,
Lua adjusts the result list to one element,
either discarding all values except the first one
or adding a single @nil if there are no values.

Here are some examples:
@verbatim{

```
f()                -- adjusted to 0 results
g(f(), x)          -- f() is adjusted to 1 result
g(x, f())          -- g gets x plus all results from f()
a,b,c = f(), x     -- f() is adjusted to 1 result (c gets nil)
a,b = ...          -- a gets the first vararg argument, b gets
                   -- the second (both a and b can get nil if there
                   -- is no corresponding vararg
 argument)

a,b,c = x, f()     -- f() is adjusted to 2 results
a,b,c = f()        -- f() is adjusted to 3 results
return f()         -- returns all results from f()
return ...         -- returns all received vararg arguments
return x,y,f()     -- returns x, y, and all results from f()
{f()}              -- creates a list with all results from f()
{...}              -- creates a list with all vararg arguments
{f(), nil}         -- f() is adjusted to 1 result
```

}

Any expression enclosed in parentheses always results in only one value.
Thus,
@T{(f(x,y,z))} is always a single value,
even if @id{f} returns several values.
(The value of @T{(f(x,y,z))} is the first value returned by @id{f}
or @nil if @id{f} does not return any values.)

@sect3{arith| @title{Arithmetic Operators}
Lua supports the following @x{arithmetic operators}:
@description{
@item{@T{+}|addition}
@item{@T{-}|subtraction}
@item{@T{*}|multiplication}
@item{@T{/}|float division}
@item{@T{//}|floor division}
@item{@T{%}|modulo}
@item{@T{^}|exponentiation}
@item{@T{-}|unary
 minus}
}

With the exception of exponentiation and float division,
the arithmetic operators work as follows:
If both operands are integers,
the operation is performed over integers and the result is an integer.
Otherwise, if both operands are numbers
or strings that can be converted to
numbers @see{coercion},
then they are converted to floats,
the operation is performed following the usual rules
for floating-point arithmetic
(usually the @x{IEEE 754} standard),
and the result is a float.

Exponentiation and float division (@T{/})
always convert their operands to floats
and the result is always a float.
Exponentiation uses the @ANSI{pow},
so that it works for non-integer exponents too.

Floor division (@T{//}) is a division
that rounds the quotient towards minus infinity,
that is, the floor of the division of its operands.

Modulo is defined as the remainder of a division
that rounds the quotient towards minus infinity (floor division).

In
 case of overflows in integer arithmetic,
all operations @emphx{wrap around},
according to the usual rules of two-complement arithmetic.
(In other words,
they return the unique representable integer

that is equal modulo @M{2@sp{64}} to the mathematical result.)
}

@sect3{bitwise| @title{Bitwise Operators}
Lua supports the following @x{bitwise operators}:
@description{
@item{@T{&}|bitwise AND}
@item{@T{@VerBar}|bitwise OR}
@item{@T{~}|bitwise exclusive OR}
@item{@T{>>}|right shift}
@item{@T{<<}|left shift}
@item{@T{~}|unary bitwise NOT}
}

All bitwise operations convert its operands to integers
@see{coercion},
operate on all bits of those integers,
and result in an integer.

Both right and left shifts fill the vacant bits with zeros.
Negative displacements shift to the other direction;
displacements with absolute values equal to or higher than
the number of bits in an integer
result in zero (as all bits are shifted out).

}

@sect3{coercion| @title{Coercions and Conversions}
Lua provides
 some automatic conversions between some
types and representations at run time.
Bitwise operators always convert float operands to integers.
Exponentiation and float division
always convert integer operands to floats.
All other arithmetic operations applied to mixed numbers
(integers and floats) convert the integer operand to a float;
this is called the @def{usual rule}.
The C API also converts both integers to floats and
floats to integers, as needed.
Moreover, string concatenation accepts numbers as arguments,
besides strings.

Lua also converts strings to numbers,
whenever a number is expected.

In a conversion from integer to float,
if the integer value has an exact representation as a float,
that is the result.

Otherwise,
the conversion gets the nearest higher or
the nearest lower representable value.
This kind of conversion never fails.

The conversion from float to integer
checks whether the float has an exact representation as an integer
(that is, the float has an integral
value and
it is in the range of integer representation).
If it does, that representation is the result.
Otherwise, the conversion fails.

The conversion from strings to numbers goes as follows:
First, the string is converted to an integer or a float,
following its syntax and the rules of the Lua lexer.
(The string may have also leading and trailing spaces and a sign.)
Then, the resulting number (float or integer)
is converted to the type (float or integer) required by the context
(e.g., the operation that forced the conversion).

All conversions from strings to numbers
accept both a dot and the current locale mark
as the radix character.
(The Lua lexer, however, accepts only a dot.)

The conversion from numbers to strings uses a
non-specified human-readable format.
For complete control over how numbers are converted to strings,
use the @id{format} function from the string library
@seeF{string.format}.

}

@sect3{rel-ops| @title{Relational Operators}
Lua supports the following @x{relational
operators}:
@description{
@item{@T{==}|equality}
@item{@T{~=}|inequality}
@item{@T{<}|less than}
@item{@T{>}|greater than}
@item{@T{<=}|less or equal}
@item{@T{>=}|greater or equal}
}
These operators always result in @false or @true.

Equality (@T{==}) first compares the type of its operands.

If the types are different, then the result is @false.
Otherwise, the values of the operands are compared.
Strings are compared in the obvious way.
Numbers are equal if they denote the same mathematical value.

Tables, userdata, and threads
are compared by reference:
two objects are considered equal only if they are the same object.
Every time you create a new object
(a table, userdata, or thread),
this new object is different from any previously existing object.
A closure is always equal to itself.
Closures with any detectable difference
(different behavior, different definition) are always different.
Closures created at different times but with no detectable differences
may be classified as
 equal or not
(depending on internal caching details).

You can change the way that Lua compares tables and userdata
by using the @Q{eq} metamethod @see{metatable}.

Equality comparisons do not convert strings to numbers
or vice versa.
Thus, @T{"0"==0} evaluates to @false,
and @T{t[0]} and @T{t["0"]} denote different
entries in a table.

The operator @T{~=} is exactly the negation of equality (@T{==}).

The order operators work as follows.
If both arguments are numbers,
then they are compared according to their mathematical values
(regardless of their subtypes).
Otherwise, if both arguments are strings,
then their values are compared according to the current locale.
Otherwise, Lua tries to call the @Q{lt} or the @Q{le}
metamethod @see{metatable}.
A comparison @T{a > b} is translated to @T{b < a}
and @T{a >= b} is translated to @T{b <= a}.

Following the @x{IEEE 754} standard,
@x{NaN} is considered neither smaller than,
nor equal to, nor greater than any value (including itself).

}

@sect3{logic|

@title{Logical Operators}
The @x{logical operators} in Lua are
@Rw{and}, @Rw{or}, and @Rw{not}.
Like the control structures @see{control},
all logical operators consider both @false and @nil as false
and anything else as true.

The negation operator @Rw{not} always returns @false or @true.
The conjunction operator @Rw{and} returns its first argument
if this value is @false or @nil;
otherwise, @Rw{and} returns its second argument.
The disjunction operator @Rw{or} returns its first argument
if this value is different from @nil and @false;
otherwise, @Rw{or} returns its second argument.
Both @Rw{and} and @Rw{or} use @x{short-circuit evaluation};
that is,
the second operand is evaluated only if necessary.
Here are some examples:
@verbatim{
10 or 20 --> 10
10 or error() --> 10
nil or "a" --> "a"
nil and 10 --> nil
false and error() --> false
false and nil --> false
false or nil --> nil
10 and 20 --> 20
}
(In this manual,
@T{-->}
indicates the result of the preceding expression.)

}

@sect3{concat| @title{Concatenation}
The string @x{concatenation} operator in Lua is
denoted by two dots (@Char{..}).
If both operands are strings or numbers, then they are converted to
strings according to the rules described in @See{coercion}.
Otherwise, the @idx{__concat} metamethod is called @see{metatable}.

}

@sect3{len-op| @title{The Length Operator}

The length operator is denoted by the unary prefix operator @T{#}.

The length of a string is its number of bytes

(that is, the usual meaning of string length when each
character is one byte).

The length operator applied on a table
returns a @x{border} in that table.
A @def{border} in a table @id{t} is any natural number
that satisfies the following condition:
@verbatim{
(border == 0 or t[border] ~= nil) and t[border + 1] == nil
}
In words,
a border is any (natural) index in a table
where a non-nil value is followed by a nil value
(or zero, when index 1 is nil).

A
 table with exactly one border is called a @def{sequence}.
For instance, the table @T{{10, 20, 30, 40, 50}} is a sequence,
as it has only one border (5).
The table @T{{10, 20, 30, nil, 50}} has two borders (3 and 5),
and therefore it is not a sequence.
The table @T{{nil, 20, 30, nil, nil, 60, nil}}
has three borders (0, 3, and 6),
so it is not a sequence, too.
The table @T{{}} is a sequence with border 0.
Note that non-natural keys do not interfere
with whether a table is a sequence.

When @id{t} is a sequence,
@T{#t} returns its only border,
which corresponds to the intuitive notion of the length of the sequence.
When @id{t} is not a sequence,
@T{#t} can return any of its borders.
(The exact one depends on details of
the internal representation of the table,
which in turn can depend on how the table was populated and
the memory addresses of its non-numeric keys.)

The computation of the length of a table
has a guaranteed worst time of @M{O(log n)},
where @M{n} is the largest natural key
 in the table.

A program can modify the behavior of the length operator for
any value but strings through the @idx{__len} metamethod @see{metatable}.

}

@sect3{prec| @title{Precedence}
@x{Operator precedence} in Lua follows the table below,
from lower to higher priority:
@verbatim{
or
and
< > <= >= ~= ==
|
~
&
<< >>
..
+ -
* / // %
unary operators (not # - ~)
^
}
As usual,
you can use parentheses to change the precedences of an expression.
The concatenation (@Char{..}) and exponentiation (@Char{^})
operators are right associative.
All other binary operators are left associative.

}

@sect3{tableconstructor| @title{Table Constructors}
Table @x{constructors} are expressions that create tables.
Every time a constructor is evaluated, a new table is created.
A constructor can be used to create an empty table
or to create a table and initialize some of its fields.
The general syntax for constructors is
@Produc{
@producname{tableconstructor}@producbody{@bnfter{@Open}
 @bnfopt{fieldlist} @bnfter{@Close}}
@producname{fieldlist}@producbody{field @bnfrep{fieldsep field} @bnfopt{fieldsep}}
@producname{field}@producbody{@bnfter{[} exp @bnfter{]} @bnfter{=} exp @Or
        @bnfNter{Name} @bnfter{=} exp @Or exp}
@producname{fieldsep}@producbody{@bnfter{,} @Or @bnfter{;}}
}

Each field of the form @T{[exp1] = exp2} adds to the new table an entry
with key @id{exp1} and value @id{exp2}.
A field of the form @T{name = exp} is equivalent to
@T{["name"] = exp}.
Finally, fields of the form @id{exp} are equivalent to
@T{[i] = exp}, where @id{i} are consecutive integers
starting with 1.
Fields in the other formats do not affect this counting.

For example,
@verbatim{
a = { [f(1)] = g; "x", "y"; x = 1, f(x), [30] = 23; 45 }
}
is equivalent to
@verbatim{
```
do
 local t = {}
 t[f(1)] = g
 t[1] = "x"         -- 1st exp
 t[2] = "y"         -- 2nd exp
 t.x = 1            -- t["x"] = 1
 t[3] = f(x)        -- 3rd exp
 t[30] = 23
 t[4] = 45
        -- 4th exp
 a = t
end
```
}

The order of the assignments in a constructor is undefined.
(This order would be relevant only when there are repeated keys.)

If the last field in the list has the form @id{exp}
and the expression is a function call or a vararg expression,
then all values returned by this expression enter the list consecutively
@see{functioncall}.

The field list can have an optional trailing separator,
as a convenience for machine-generated code.

}

@sect3{functioncall| @title{Function Calls}
A @x{function call} in Lua has the following syntax:
@Produc{
@producname{functioncall}@producbody{prefixexp args}
}
In a function call,
first @bnfNter{prefixexp} and @bnfNter{args} are evaluated.
If the value of @bnfNter{prefixexp} has type @emph{function},
then this function is called
with the given arguments.
Otherwise, the @bnfNter{prefixexp} @Q{call} metamethod is called,
having as first argument the value of @bnfNter{prefixexp},
followed by the original call arguments
@see{metatable}.

The
form
@Produc{
@producname{functioncall}@producbody{prefixexp @bnfter{:} @bnfNter{Name} args}
}
can be used to call @Q{methods}.
A call @T{v:name(@rep{args})}
is syntactic sugar for @T{v.name(v,@rep{args})},
except that @id{v} is evaluated only once.

Arguments have the following syntax:
@Produc{
@producname{args}@producbody{@bnfter{(} @bnfopt{explist} @bnfter{)}}
@producname{args}@producbody{tableconstructor}
@producname{args}@producbody{@bnfNter{LiteralString}}
}
All argument expressions are evaluated before the call.
A call of the form @T{f{@rep{fields}}} is
syntactic sugar for @T{f({@rep{fields}})};
that is, the argument list is a single new table.
A call of the form @T{f'@rep{string}'}
(or @T{f"@rep{string}"} or @T{f[[@rep{string}]]})
is syntactic sugar for @T{f('@rep{string}')};
that is, the argument list is a single literal string.

A call of the form @T{return @rep{functioncall}} is called
a @def{tail call}.
Lua implements @def{proper tail calls}
(or @emph{proper
tail recursion}):
in a tail call,
the called function reuses the stack entry of the calling function.
Therefore, there is no limit on the number of nested tail calls that
a program can execute.
However, a tail call erases any debug information about the
calling function.
Note that a tail call only happens with a particular syntax,
where the @Rw{return} has one single function call as argument;
this syntax makes the calling function return exactly
the returns of the called function.
So, none of the following examples are tail calls:
@verbatim{
return (f(x)) -- results adjusted to 1
return 2 * f(x)
return x, f(x) -- additional results
f(x); return -- results discarded
return x or f(x) -- results adjusted to 1
}

}

@sect3{func-def| @title{Function Definitions}

The syntax for function definition is
@Produc{
@producname{functiondef}@producbody{@Rw{function} funcbody}
@producname{funcbody}@producbody{@bnfter{(} @bnfopt{parlist} @bnfter{)} block @Rw{end}}
}

The
following syntactic sugar simplifies function definitions:
@Produc{
@producname{stat}@producbody{@Rw{function} funcname funcbody}
@producname{stat}@producbody{@Rw{local} @Rw{function} @bnfNter{Name} funcbody}
@producname{funcname}@producbody{@bnfNter{Name} @bnfrep{@bnfter{.} @bnfNter{Name}}
@bnfopt{@bnfter{:} @bnfNter{Name}}}
}
The statement
@verbatim{
function f () @rep{body} end
}
translates to
@verbatim{
f = function () @rep{body} end
}
The statement
@verbatim{
function t.a.b.c.f () @rep{body} end
}
translates to
@verbatim{
t.a.b.c.f = function () @rep{body} end
}
The statement
@verbatim{
local function f () @rep{body} end
}
translates to
@verbatim{
local f; f = function () @rep{body} end
}
not to
@verbatim{
local f = function () @rep{body} end
}
(This only makes a difference when the body of the function

contains references to @id{f}.)

A function definition is an executable expression,
whose value has type @emph{function}.
When Lua precompiles a chunk,
all its function bodies are
 precompiled too.
Then, whenever Lua executes the function definition,
the function is @emph{instantiated} (or @emph{closed}).
This function instance (or @emphx{closure})
is the final value of the expression.

Parameters act as local variables that are
initialized with the argument values:
@Produc{
@producname{parlist}@producbody{namelist @bnfopt{@bnfter{,} @bnfter{...}} @Or
 @bnfter{...}}
}
When a function is called,
the list of @x{arguments} is adjusted to
the length of the list of parameters,
unless the function is a @def{vararg function},
which is indicated by three dots (@Char{...})
at the end of its parameter list.
A vararg function does not adjust its argument list;
instead, it collects all extra arguments and supplies them
to the function through a @def{vararg expression},
which is also written as three dots.
The value of this expression is a list of all actual extra arguments,
similar to a function with multiple results.
If a vararg expression is used inside another expression
or
 in the middle of a list of expressions,
then its return list is adjusted to one element.
If the expression is used as the last element of a list of expressions,
then no adjustment is made
(unless that last expression is enclosed in parentheses).

As an example, consider the following definitions:
@verbatim{
function f(a, b) end
function g(a, b, ...) end
function r() return 1,2,3 end
}
Then, we have the following mapping from arguments to parameters and
to the vararg expression:
@verbatim{

CALL PARAMETERS

f(3) a=3, b=nil
f(3, 4) a=3, b=4
f(3, 4, 5) a=3, b=4
f(r(), 10) a=1, b=10
f(r()) a=1, b=2

g(3) a=3, b=nil, ... --> (nothing)
g(3, 4) a=3, b=4, ... --> (nothing)
g(3, 4, 5, 8) a=3, b=4, ... --> 5 8
g(5, r()) a=5, b=1, ... --> 2 3
}

Results are returned using the @Rw{return} statement @see{control}.
If control reaches the end of a function
without encountering a @Rw{return} statement,
then
the function returns with no results.

@index{multiple return}
There is a system-dependent limit on the number of values
that a function may return.
This limit is guaranteed to be larger than 1000.

The @emphx{colon} syntax
is used for defining @def{methods},
that is, functions that have an implicit extra parameter @idx{self}.
Thus, the statement
@verbatim{
function t.a.b.c:f (@rep{params}) @rep{body} end
}
is syntactic sugar for
@verbatim{
t.a.b.c.f = function (self, @rep{params}) @rep{body} end
}

}

}

@sect2{visibility| @title{Visibility Rules}

@index{visibility}
Lua is a lexically scoped language.
The scope of a local variable begins at the first statement after
its declaration and lasts until the last non-void statement
of the innermost block that includes the declaration.

Consider the following example:

```
@verbatim{
x = 10                -- global variable
do                    -- new block
 local x = x          -- new 'x', with value 10
 print(x)             --> 10
 x =
 x+1
 do                   -- another block
   local x = x+1      -- another 'x'
   print(x)           --> 12
 end
 print(x)             --> 11
end
print(x)              --> 10  (the global one)
}
```

Notice that, in a declaration like @T{local x = x},
the new @id{x} being declared is not in scope yet,
and so the second @id{x} refers to the outside variable.

Because of the @x{lexical scoping} rules,
local variables can be freely accessed by functions
defined inside their scope.
A local variable used by an inner function is called
an @def{upvalue}, or @emphx{external local variable},
inside the inner function.

Notice that each execution of a @Rw{local} statement
defines new local variables.
Consider the following example:

```
@verbatim{
a = {}
local x = 20
for i=1,10 do
 local y = 0
 a[i] = function () y=y+1; return x+y end
end
}
```

The loop creates ten closures
(that is, ten instances of the anonymous function).
Each of these closures uses a different @id{y} variable,
while all of them share
 the same @id{x}.

}

}

@C{----------}
@sect1{API| @title{The Application Program Interface}

@index{C API}
This section describes the @N{C API} for Lua, that is,
the set of @N{C functions} available to the host program to communicate
with Lua.
All API functions and related types and constants
are declared in the header file @defid{lua.h}.

Even when we use the term @Q{function},
any facility in the API may be provided as a macro instead.
Except where stated otherwise,
all such macros use each of their arguments exactly once
(except for the first argument, which is always a Lua state),
and so do not generate any hidden side-effects.

As in most @N{C libraries},
the Lua API functions do not check their arguments for validity or consistency.
However, you can change this behavior by compiling Lua
with the macro @defid{LUA_USE_APICHECK} defined.

The Lua library is fully reentrant:
it has no global variables.
It keeps all information
 it needs in a dynamic structure,
called the @def{Lua state}.

Each Lua state has one or more threads,
which correspond to independent, cooperative lines of execution.
The type @Lid{lua_State} (despite its name) refers to a thread.
(Indirectly, through the thread, it also refers to the
Lua state associated to the thread.)

A pointer to a thread must be passed as the first argument to
every function in the library, except to @Lid{lua_newstate},
which creates a Lua state from scratch and returns a pointer
to the @emph{main thread} in the new state.

@sect2{@title{The Stack}

Lua uses a @emph{virtual stack} to pass values to and from C.
Each element in this stack represents a Lua value
(@nil, number, string, etc.).
Functions in the API can access this stack through the

Lua state parameter that they receive.

Whenever Lua calls C, the called function gets a new stack,
which is independent of previous stacks and of stacks of
@N{C functions} that are still active.
This stack initially
 contains any arguments to the @N{C function}
and it is where the @N{C function} can store temporary
Lua values and must push its results
to be returned to the caller @seeC{lua_CFunction}.

For convenience,
most query operations in the API do not follow a strict stack discipline.
Instead, they can refer to any element in the stack
by using an @emph{index}:@index{index (API stack)}
A positive index represents an absolute stack position
(starting @N{at 1});
a negative index represents an offset relative to the top of the stack.
More specifically, if the stack has @rep{n} elements,
then @N{index 1} represents the first element
(that is, the element that was pushed onto the stack first)
and
@N{index @rep{n}} represents the last element;
@N{index @num{-1}} also represents the last element
(that is, the element at @N{the top})
and index @M{-n} represents the first element.

}

@sect2{stacksize| @title{Stack Size}

When you interact with the Lua API,
you are responsible for ensuring consistency.
In
 particular,
@emph{you are responsible for controlling stack overflow}.
You can use the function @Lid{lua_checkstack}
to ensure that the stack has enough space for pushing new elements.

Whenever Lua calls C,
it ensures that the stack has space for
at least @defid{LUA_MINSTACK} extra slots.
@id{LUA_MINSTACK} is defined as 20,
so that usually you do not have to worry about stack space
unless your code has loops pushing elements onto the stack.

When you call a Lua function
without a fixed number of results @seeF{lua_call},

Lua ensures that the stack has enough space for all results,
but it does not ensure any extra space.
So, before pushing anything in the stack after such a call
you should use @Lid{lua_checkstack}.

}

@sect2{@title{Valid and Acceptable Indices}

Any function in the API that receives stack indices
works only with @emphx{valid indices} or @emphx{acceptable indices}.

A @def{valid index} is an index that refers to a
position that stores a modifiable Lua value.
It
 comprises stack indices @N{between 1} and the stack top
(@T{1 @leq abs(index) @leq top})
@index{stack index}
plus @def{pseudo-indices},
which represent some positions that are accessible to @N{C code}
but that are not in the stack.
Pseudo-indices are used to access the registry @see{registry}
and the upvalues of a @N{C function} @see{c-closure}.

Functions that do not need a specific mutable position,
but only a value (e.g., query functions),
can be called with acceptable indices.
An @def{acceptable index} can be any valid index,
but it also can be any positive index after the stack top
within the space allocated for the stack,
that is, indices up to the stack size.
(Note that 0 is never an acceptable index.)
Except when noted otherwise,
functions in the API work with acceptable indices.

Acceptable indices serve to avoid extra tests
against the stack top when querying the stack.
For instance, a @N{C function} can query its third argument
without the need to first check whether there
 is a third argument,
that is, without the need to check whether 3 is a valid index.

For functions that can be called with acceptable indices,
any non-valid index is treated as if it
contains a value of a virtual type @defid{LUA_TNONE},
which behaves like a nil value.

}

@sect2{c-closure| @title{C Closures}

When a @N{C function} is created,
it is possible to associate some values with it,
thus creating a @def{@N{C closure}}
@seeC{lua_pushcclosure};
these values are called @def{upvalues} and are
accessible to the function whenever it is called.

Whenever a @N{C function} is called,
its upvalues are located at specific pseudo-indices.
These pseudo-indices are produced by the macro
@Lid{lua_upvalueindex}.
The first upvalue associated with a function is at index
@T{lua_upvalueindex(1)}, and so on.
Any access to @T{lua_upvalueindex(@rep{n})},
where @rep{n} is greater than the number of upvalues of the
current function
(but not greater than 256,
which is one plus the maximum number of upvalues
 in a closure),
produces an acceptable but invalid index.

}

@sect2{registry| @title{Registry}

Lua provides a @def{registry},
a predefined table that can be used by any @N{C code} to
store whatever Lua values it needs to store.
The registry table is always located at pseudo-index
@defid{LUA_REGISTRYINDEX}.
Any @N{C library} can store data into this table,
but it must take care to choose keys
that are different from those used
by other libraries, to avoid collisions.
Typically, you should use as key a string containing your library name,
or a light userdata with the address of a @N{C object} in your code,
or any Lua object created by your code.
As with variable names,
string keys starting with an underscore followed by
uppercase letters are reserved for Lua.

The integer keys in the registry are used
by the reference mechanism @seeC{luaL_ref}
and by some predefined values.
Therefore, integer keys must not be used for other purposes.

When you create a new Lua state,
its registry comes
with some predefined values.
These predefined values are indexed with integer keys
defined as constants in @id{lua.h}.
The following constants are defined:
@description{
@item{@defid{LUA_RIDX_MAINTHREAD}| At this index the registry has
the main thread of the state.
(The main thread is the one created together with the state.)
}

@item{@defid{LUA_RIDX_GLOBALS}| At this index the registry has
the @x{global environment}.
}
}

}

@sect2{C-error|@title{Error Handling in C}

Internally, Lua uses the C @id{longjmp} facility to handle errors.
(Lua will use exceptions if you compile it as C++;
search for @id{LUAI_THROW} in the source code for details.)
When Lua faces any error
(such as a @x{memory allocation error} or a type error)
it @emph{raises} an error;
that is, it does a long jump.
A @emphx{protected environment} uses @id{setjmp}
to set a recovery point;
any error jumps to the most recent active recovery point.

Inside a @N{C function} you can raise an error by calling @Lid{lua_error}.

Most
functions in the API can raise an error,
for instance due to a @x{memory allocation error}.
The documentation for each function indicates whether
it can raise errors.

If an error happens outside any protected environment,
Lua calls a @def{panic function} (see @Lid{lua_atpanic})
and then calls @T{abort},
thus exiting the host application.
Your panic function can avoid this exit by
never returning
(e.g., doing a long jump to your own recovery point outside Lua).

The panic function,
as its name implies,
is a mechanism of last resort.
Programs should avoid it.
As a general rule,
when a @N{C function} is called by Lua with a Lua state,
it can do whatever it wants on that Lua state,
as it should be already protected.
However,
when C code operates on other Lua states
(e.g., a Lua argument to the function,
a Lua state stored in the registry, or
the result of @Lid{lua_newthread}),
it should use them only in API calls that cannot raise errors.

The panic function runs as if it were a
@x{message handler} @see{error};
in particular, the error object is at the top of the stack.
However, there is no guarantee about stack space.
To push anything on the stack,
the panic function must first check the available space @see{stacksize}.

}

@sect2{continuations|@title{Handling Yields in C}

Internally, Lua uses the C @id{longjmp} facility to yield a coroutine.
Therefore, if a @N{C function} @id{foo} calls an API function
and this API function yields
(directly or indirectly by calling another function that yields),
Lua cannot return to @id{foo} any more,
because the @id{longjmp} removes its frame from the C stack.

To avoid this kind of problem,
Lua raises an error whenever it tries to yield across an API call,
except for three functions:
@Lid{lua_yieldk}, @Lid{lua_callk}, and @Lid{lua_pcallk}.
All those functions receive a @def{continuation function}
(as a parameter named @id{k}) to continue execution after a yield.

We need to set some terminology to explain continuations.
We
have a @N{C function} called from Lua which we will call
the @emph{original function}.
This original function then calls one of those three functions in the C API,
which we will call the @emph{callee function},
that then yields the current thread.

(This can happen when the callee function is @Lid{lua_yieldk},
or when the callee function is either @Lid{lua_callk} or @Lid{lua_pcallk}
and the function called by them yields.)

Suppose the running thread yields while executing the callee function.
After the thread resumes,
it eventually will finish running the callee function.
However,
the callee function cannot return to the original function,
because its frame in the C stack was destroyed by the yield.
Instead, Lua calls a @def{continuation function},
which was given as an argument to the callee function.
As the name implies,
the continuation function should continue the task
of the original function.

As an illustration, consider the following function:
@verbatim{
```
int original_function
 (lua_State *L) {
 ...     /* code 1 */
 status = lua_pcall(L, n, m, h);  /* calls Lua */
 ...     /* code 2 */
}
```
}
Now we want to allow
the Lua code being run by @Lid{lua_pcall} to yield.
First, we can rewrite our function like here:
@verbatim{
```
int k (lua_State *L, int status, lua_KContext ctx) {
 ...  /* code 2 */
}

int original_function (lua_State *L) {
 ...     /* code 1 */
 return k(L, lua_pcall(L, n, m, h), ctx);
}
```
}
In the above code,
the new function @id{k} is a
@emph{continuation function} (with type @Lid{lua_KFunction}),
which should do all the work that the original function
was doing after calling @Lid{lua_pcall}.
Now, we must inform Lua that it must call @id{k} if the Lua code
being executed by @Lid{lua_pcall} gets interrupted in some way
(errors or yielding),
so we rewrite the code as here,
replacing @Lid{lua_pcall} by @Lid{lua_pcallk}:

@verbatim{
int original_function (lua_State *L) {
 ... /* code 1 */
 return k(L, lua_pcallk(L, n, m, h, ctx2, k), ctx1);
}
}
Note
 the external, explicit call to the continuation:
Lua will call the continuation only if needed, that is,
in case of errors or resuming after a yield.
If the called function returns normally without ever yielding,
@Lid{lua_pcallk} (and @Lid{lua_callk}) will also return normally.
(Of course, instead of calling the continuation in that case,
you can do the equivalent work directly inside the original function.)

Besides the Lua state,
the continuation function has two other parameters:
the final status of the call plus the context value (@id{ctx}) that
was passed originally to @Lid{lua_pcallk}.
(Lua does not use this context value;
it only passes this value from the original function to the
continuation function.)
For @Lid{lua_pcallk},
the status is the same value that would be returned by @Lid{lua_pcallk},
except that it is @Lid{LUA_YIELD} when being executed after a yield
(instead of @Lid{LUA_OK}).
For @Lid{lua_yieldk} and @Lid{lua_callk},
the status is always @Lid{LUA_YIELD} when
 Lua calls the continuation.
(For these two functions,
Lua will not call the continuation in case of errors,
because they do not handle errors.)
Similarly, when using @Lid{lua_callk},
you should call the continuation function
with @Lid{LUA_OK} as the status.
(For @Lid{lua_yieldk}, there is not much point in calling
directly the continuation function,
because @Lid{lua_yieldk} usually does not return.)

Lua treats the continuation function as if it were the original function.
The continuation function receives the same Lua stack
from the original function,
in the same state it would be if the callee function had returned.
(For instance,
after a @Lid{lua_callk} the function and its arguments are
removed from the stack and replaced by the results from the call.)
It also has the same upvalues.
Whatever it returns is handled by Lua as if it were the return

of the original function.

}

@sect2{@title{Functions and Types}

Here we list all functions and types from the @N{C API} in
alphabetical
 order.
Each function has an indicator like this:
@apii{o,p,x}

The first field, @T{o},
is how many elements the function pops from the stack.
The second field, @T{p},
is how many elements the function pushes onto the stack.
(Any function always pushes its results after popping its arguments.)
A field in the form @T{x|y} means the function can push (or pop)
@T{x} or @T{y} elements,
depending on the situation;
an interrogation mark @Char{?} means that
we cannot know how many elements the function pops/pushes
by looking only at its arguments
(e.g., they may depend on what is on the stack).
The third field, @T{x},
tells whether the function may raise errors:
@Char{-} means the function never raises any error;
@Char{m} means the function may raise out-of-memory errors
and errors running a @idx{__gc} metamethod;
@Char{e} means the function may raise any errors
(it can run arbitrary Lua code,
either directly or through metamethods);
@Char{v} means the function may raise an error on purpose.

@APIEntry{int
 lua_absindex (lua_State *L, int idx);|
@apii{0,0,-}

Converts the @x{acceptable index} @id{idx}
into an equivalent @x{absolute index}
(that is, one that does not depend on the stack top).

}

@APIEntry{
typedef void * (*lua_Alloc) (void *ud,

```
                void *ptr,
                size_t osize,
                size_t nsize);|
```

The type of the @x{memory-allocation function} used by Lua states.
The allocator function must provide a
functionality similar to @id{realloc},
but not exactly the same.
Its arguments are
@id{ud}, an opaque pointer passed to @Lid{lua_newstate};
@id{ptr}, a pointer to the block being allocated/reallocated/freed;
@id{osize}, the original size of the block or some code about what
is being allocated;
and @id{nsize}, the new size of the block.

When @id{ptr} is not @id{NULL},
@id{osize} is the size of the block pointed by @id{ptr},
that is, the size given when it was allocated or reallocated.

When @id{ptr} is
 @id{NULL},
@id{osize} encodes the kind of object that Lua is allocating.
@id{osize} is any of
@Lid{LUA_TSTRING}, @Lid{LUA_TTABLE}, @Lid{LUA_TFUNCTION},
@Lid{LUA_TUSERDATA}, or @Lid{LUA_TTHREAD} when (and only when)
Lua is creating a new object of that type.
When @id{osize} is some other value,
Lua is allocating memory for something else.

Lua assumes the following behavior from the allocator function:

When @id{nsize} is zero,
the allocator must behave like @id{free}
and return @id{NULL}.

When @id{nsize} is not zero,
the allocator must behave like @id{realloc}.
The allocator returns @id{NULL}
if and only if it cannot fulfill the request.
Lua assumes that the allocator never fails when
@T{osize >= nsize}.

Here is a simple implementation for the @x{allocator function}.
It is used in the auxiliary library by @Lid{luaL_newstate}.
@verbatim{
```
static void *l_alloc (void *ud, void *ptr, size_t osize,
                      size_t nsize) {
 (void)ud;  (void)osize;  /* not
```

```
 used */
 if (nsize == 0) {
   free(ptr);
   return NULL;
 }
 else
   return realloc(ptr, nsize);
}
}
```

Note that @N{Standard C} ensures
that @T{free(NULL)} has no effect and that
@T{realloc(NULL,size)} is equivalent to @T{malloc(size)}.
This code assumes that @id{realloc} does not fail when shrinking a block.
(Although @N{Standard C} does not ensure this behavior,
it seems to be a safe assumption.)

}

@APIEntry{void lua_arith (lua_State *L, int op);|
@apii{2|1,1,e}

Performs an arithmetic or bitwise operation over the two values
(or one, in the case of negations)
at the top of the stack,
with the value at the top being the second operand,
pops these values, and pushes the result of the operation.
The function follows the semantics of the corresponding Lua operator
(that is, it may call metamethods).

The value of @id{op} must be one of the following constants:
@description{

@item{@defid{LUA_OPADD}| performs addition (@T{+})}
@item{@defid{LUA_OPSUB}| performs subtraction (@T{-})}
@item{@defid{LUA_OPMUL}|
 performs multiplication (@T{*})}
@item{@defid{LUA_OPDIV}| performs float division (@T{/})}
@item{@defid{LUA_OPIDIV}| performs floor division (@T{//})}
@item{@defid{LUA_OPMOD}| performs modulo (@T{%})}
@item{@defid{LUA_OPPOW}| performs exponentiation (@T{^})}
@item{@defid{LUA_OPUNM}| performs mathematical negation (unary @T{-})}
@item{@defid{LUA_OPBNOT}| performs bitwise NOT (@T{~})}
@item{@defid{LUA_OPBAND}| performs bitwise AND (@T{&})}
@item{@defid{LUA_OPBOR}| performs bitwise OR (@T{|})}
@item{@defid{LUA_OPBXOR}| performs bitwise exclusive OR (@T{~})}
@item{@defid{LUA_OPSHL}| performs left shift (@T{<<})}
@item{@defid{LUA_OPSHR}| performs right shift (@T{>>})}

}

}

@APIEntry{lua_CFunction lua_atpanic (lua_State *L, lua_CFunction panicf);|
@apii{0,0,-}

Sets a new panic function and returns the old one @see{C-error}.

}

@APIEntry{void lua_call (lua_State *L, int nargs, int nresults);|
@apii{nargs+1,nresults,e}

Calls a function.

To call a function you
 must use the following protocol:
first, the function to be called is pushed onto the stack;
then, the arguments to the function are pushed
in direct order;
that is, the first argument is pushed first.
Finally you call @Lid{lua_call};
@id{nargs} is the number of arguments that you pushed onto the stack.
All arguments and the function value are popped from the stack
when the function is called.
The function results are pushed onto the stack when the function returns.
The number of results is adjusted to @id{nresults},
unless @id{nresults} is @defid{LUA_MULTRET}.
In this case, all results from the function are pushed;
Lua takes care that the returned values fit into the stack space,
but it does not ensure any extra space in the stack.
The function results are pushed onto the stack in direct order
(the first result is pushed first),
so that after the call the last result is on the top of the stack.

Any error inside the called function is propagated upwards
(with a @id{longjmp}).

The following
 example shows how the host program can do the
equivalent to this Lua code:
@verbatim{
a = f("how", t.x, 14)
}
Here it is @N{in C}:
@verbatim{

```
lua_getglobal(L, "f");                /* function to be called */
lua_pushliteral(L, "how");                    /* 1st argument */
lua_getglobal(L, "t");                /* table to be indexed */
lua_getfield(L, -1, "x");       /* push result of t.x (2nd arg) */
lua_remove(L, -2);                /* remove 't' from the stack */
lua_pushinteger(L, 14);                       /* 3rd argument */
lua_call(L, 3, 1);     /* call 'f' with 3 arguments and 1 result */
lua_setglobal(L, "a");                        /* set global 'a' */
}
```

Note that the code above is @emph{balanced}:
at its end, the stack is back to its original configuration.
This is considered good programming practice.

}

@APIEntry{

```
void lua_callk (lua_State *L,
            int nargs,
            int nresults,
            lua_KContext ctx,
            lua_KFunction
 k);|
```

@apii{nargs + 1,nresults,e}

This function behaves exactly like @Lid{lua_call},
but allows the called function to yield @see{continuations}.

}

@APIEntry{typedef int (*lua_CFunction) (lua_State *L);|

Type for @N{C functions}.

In order to communicate properly with Lua,
a @N{C function} must use the following protocol,
which defines the way parameters and results are passed:
a @N{C function} receives its arguments from Lua in its stack
in direct order (the first argument is pushed first).
So, when the function starts,
@T{lua_gettop(L)} returns the number of arguments received by the function.
The first argument (if any) is at index 1
and its last argument is at index @T{lua_gettop(L)}.
To return values to Lua, a @N{C function} just pushes them onto the stack,
in direct order (the first result is pushed first),
and returns the number of results.
Any other value in the stack below the results will be properly
discarded by Lua.
Like a Lua function, a @N{C function} called

by Lua can also return
many results.

As an example, the following function receives a variable number
of numeric arguments and returns their average and their sum:
@verbatim{
```
static int foo (lua_State *L) {
 int n = lua_gettop(L);    /* number of arguments */
 lua_Number sum = 0.0;
 int i;
 for (i = 1; i <= n; i++) {
   if (!lua_isnumber(L, i)) {
     lua_pushliteral(L, "incorrect argument");
     lua_error(L);
   }
   sum += lua_tonumber(L, i);
 }
 lua_pushnumber(L, sum/n);        /* first result */
 lua_pushnumber(L, sum);         /* second result */
 return 2;                   /* number of results */
}
```
}

}

@APIEntry{int lua_checkstack (lua_State *L, int n);|
@apii{0,0,-}

Ensures that the stack has space for at least @id{n} extra slots
(that is, that you can safely push up to @id{n} values into it).
It returns false if it cannot fulfill the request,
either because it would cause the stack
to be larger than a fixed maximum size
(typically at least several thousand
 elements) or
because it cannot allocate memory for the extra space.
This function never shrinks the stack;
if the stack already has space for the extra slots,
it is left unchanged.

}

@APIEntry{void lua_close (lua_State *L);|
@apii{0,0,-}

Destroys all objects in the given Lua state
(calling the corresponding garbage-collection metamethods, if any)
and frees all dynamic memory used by this state.
In several platforms, you may not need to call this function,
because all resources are naturally released when the host program ends.
On the other hand, long-running programs that create multiple states,
such as daemons or web servers,
will probably need to close states as soon as they are not needed.

}

@APIEntry{int lua_compare (lua_State *L, int index1, int index2, int op);|
@apii{0,0,e}

Compares two Lua values.
Returns 1 if the value at index @id{index1} satisfies @id{op}
when compared with the value at index @id{index2},
following the semantics of the corresponding Lua operator
(that
 is, it may call metamethods).
Otherwise @N{returns 0}.
Also @N{returns 0} if any of the indices is not valid.

The value of @id{op} must be one of the following constants:
@description{

@item{@defid{LUA_OPEQ}| compares for equality (@T{==})}
@item{@defid{LUA_OPLT}| compares for less than (@T{<})}
@item{@defid{LUA_OPLE}| compares for less or equal (@T{<=})}

}

}

@APIEntry{void lua_concat (lua_State *L, int n);|
@apii{n,1,e}

Concatenates the @id{n} values at the top of the stack,
pops them, and leaves the result at the top.
If @N{@T{n} is 1}, the result is the single value on the stack
(that is, the function does nothing);
if @id{n} is 0, the result is the empty string.
Concatenation is performed following the usual semantics of Lua
@see{concat}.

}

@APIEntry{void lua_copy (lua_State *L, int fromidx, int toidx);|

@apii{0,0,-}

Copies the element at index @id{fromidx}
into the valid index @id{toidx},
replacing the value at that position.
Values at other positions are not affected.

}

@APIEntry{void
 lua_createtable (lua_State *L, int narr, int nrec);|
@apii{0,1,m}

Creates a new empty table and pushes it onto the stack.
Parameter @id{narr} is a hint for how many elements the table
will have as a sequence;
parameter @id{nrec} is a hint for how many other elements
the table will have.
Lua may use these hints to preallocate memory for the new table.
This preallocation is useful for performance when you know in advance
how many elements the table will have.
Otherwise you can use the function @Lid{lua_newtable}.

}

@APIEntry{int lua_dump (lua_State *L,
                lua_Writer writer,
                void *data,
                int strip);|
@apii{0,0,-}

Dumps a function as a binary chunk.
Receives a Lua function on the top of the stack
and produces a binary chunk that,
if loaded again,
results in a function equivalent to the one dumped.
As it produces parts of the chunk,
@Lid{lua_dump} calls function @id{writer} @seeC{lua_Writer}
with the
 given @id{data}
to write them.

If @id{strip} is true,
the binary representation may not include all debug information
about the function,
to save space.

The value returned is the error code returned by the last

call to the writer;
@N{0 means} no errors.

This function does not pop the Lua function from the stack.

}

@APIEntry{int lua_error (lua_State *L);|
@apii{1,0,v}

Generates a Lua error,
using the value at the top of the stack as the error object.
This function does a long jump,
and therefore never returns
@seeC{luaL_error}.

}

@APIEntry{int lua_gc (lua_State *L, int what, int data);|
@apii{0,0,m}

Controls the garbage collector.

This function performs several tasks,
according to the value of the parameter @id{what}:
@description{

@item{@id{LUA_GCSTOP}|
stops the garbage collector.
}

@item{@id{LUA_GCRESTART}|
restarts the garbage collector.
}

@item{@id{LUA_GCCOLLECT}|
performs a full garbage-collection cycle.
}

@item{@id{LUA_GCCOUNT}|
returns the current amount of memory
 (in Kbytes) in use by Lua.
}

@item{@id{LUA_GCCOUNTB}|
returns the remainder of dividing the current amount of bytes of
memory in use by Lua by 1024.
}

```
@item{@id{LUA_GCSTEP}|
performs an incremental step of garbage collection.
}

@item{@id{LUA_GCSETPAUSE}|
sets @id{data} as the new value
for the @emph{pause} of the collector @see{GC}
and returns the previous value of the pause.
}

@item{@id{LUA_GCSETSTEPMUL}|
sets @id{data} as the new value for the @emph{step multiplier} of
the collector @see{GC}
and returns the previous value of the step multiplier.
}

@item{@id{LUA_GCISRUNNING}|
returns a boolean that tells whether the collector is running
(i.e., not stopped).
}

}

For more details about these options,
see @Lid{collectgarbage}.

}

@APIEntry{lua_Alloc lua_getallocf (lua_State *L, void **ud);|
@apii{0,0,-}

Returns the @x{memory-allocation function} of a given state.
If @id{ud} is not @id{NULL}, Lua stores in @T{*ud} the
opaque pointer given when the memory-allocator function was set.

}

@APIEntry{int
 lua_getfield (lua_State *L, int index, const char *k);|
@apii{0,1,e}

Pushes onto the stack the value @T{t[k]},
where @id{t} is the value at the given index.
As in Lua, this function may trigger a metamethod
for the @Q{index} event @see{metatable}.

Returns the type of the pushed value.
```

}

@APIEntry{void *lua_getextraspace (lua_State *L);|
@apii{0,0,-}

Returns a pointer to a raw memory area associated with the
given Lua state.
The application can use this area for any purpose;
Lua does not use it for anything.

Each new thread has this area initialized with a copy
of the area of the @x{main thread}.

By default, this area has the size of a pointer to void,
but you can recompile Lua with a different size for this area.
(See @id{LUA_EXTRASPACE} in @id{luaconf.h}.)

}

@APIEntry{int lua_getglobal (lua_State *L, const char *name);|
@apii{0,1,e}

Pushes onto the stack the value of the global @id{name}.
Returns the type of that value.

}

@APIEntry{int lua_geti (lua_State
 *L, int index, lua_Integer i);|
@apii{0,1,e}

Pushes onto the stack the value @T{t[i]},
where @id{t} is the value at the given index.
As in Lua, this function may trigger a metamethod
for the @Q{index} event @see{metatable}.

Returns the type of the pushed value.

}

@APIEntry{int lua_getmetatable (lua_State *L, int index);|
@apii{0,0|1,-}

If the value at the given index has a metatable,
the function pushes that metatable onto the stack and @N{returns 1}.
Otherwise,
the function @N{returns 0} and pushes nothing on the stack.

}

@APIEntry{int lua_gettable (lua_State *L, int index);|
@apii{1,1,e}

Pushes onto the stack the value @T{t[k]},
where @id{t} is the value at the given index
and @id{k} is the value at the top of the stack.

This function pops the key from the stack,
pushing the resulting value in its place.
As in Lua, this function may trigger a metamethod
for the @Q{index} event @see{metatable}.

Returns the type of the pushed value.

}

@APIEntry{int lua_gettop (lua_State
 *L);|
@apii{0,0,-}

Returns the index of the top element in the stack.
Because indices start @N{at 1},
this result is equal to the number of elements in the stack;
in particular, @N{0 means} an empty stack.

}

@APIEntry{int lua_getuservalue (lua_State *L, int index);|
@apii{0,1,-}

Pushes onto the stack the Lua value associated with the full userdata
at the given index.

Returns the type of the pushed value.

}

@APIEntry{void lua_insert (lua_State *L, int index);|
@apii{1,1,-}

Moves the top element into the given valid index,
shifting up the elements above this index to open space.
This function cannot be called with a pseudo-index,
because a pseudo-index is not an actual stack position.

}

@APIEntry{typedef @ldots lua_Integer;|

The type of integers in Lua.

By default this type is @id{long long},
(usually a 64-bit two-complement integer),
but that can be changed to @id{long} or @id{int}
(usually a 32-bit two-complement integer).
(See @id{LUA_INT_TYPE} in @id{luaconf.h}.)

Lua also
 defines the constants
@defid{LUA_MININTEGER} and @defid{LUA_MAXINTEGER},
with the minimum and the maximum values that fit in this type.

}

@APIEntry{int lua_isboolean (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is a boolean,
and @N{0 otherwise}.

}

@APIEntry{int lua_iscfunction (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is a @N{C function},
and @N{0 otherwise}.

}

@APIEntry{int lua_isfunction (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is a function
(either C or Lua), and @N{0 otherwise}.

}

@APIEntry{int lua_isinteger (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is an integer
(that is, the value is a number and is represented as an integer),

and @N{0 otherwise}.

}

@APIEntry{int lua_islightuserdata (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is a light userdata,
and @N{0 otherwise}.

}

@APIEntry{int
 lua_isnil (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is @nil,
and @N{0 otherwise}.

}

@APIEntry{int lua_isnone (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the given index is not valid,
and @N{0 otherwise}.

}

@APIEntry{int lua_isnoneornil (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the given index is not valid
or if the value at this index is @nil,
and @N{0 otherwise}.

}

@APIEntry{int lua_isnumber (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is a number
or a string convertible to a number,
and @N{0 otherwise}.

}

@APIEntry{int lua_isstring (lua_State *L, int index);|

@apii{0,0,-}

Returns 1 if the value at the given index is a string
or a number (which is always convertible to a string),
and @N{0 otherwise}.

}

@APIEntry{int lua_istable (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is a table,
and @N{0 otherwise}.

}

@APIEntry{int
 lua_isthread (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is a thread,
and @N{0 otherwise}.

}

@APIEntry{int lua_isuserdata (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is a userdata
(either full or light), and @N{0 otherwise}.

}

@APIEntry{int lua_isyieldable (lua_State *L);|
@apii{0,0,-}

Returns 1 if the given coroutine can yield,
and @N{0 otherwise}.

}

@APIEntry{typedef @ldots lua_KContext;|

The type for continuation-function contexts.
It must be a numeric type.
This type is defined as @id{intptr_t}
when @id{intptr_t} is available,
so that it can store pointers too.

Otherwise, it is defined as @id{ptrdiff_t}.

}

@APIEntry{
typedef int (*lua_KFunction) (lua_State *L, int status, lua_KContext ctx);|

Type for continuation functions @see{continuations}.

}

@APIEntry{void lua_len (lua_State *L, int index);|
@apii{0,1,e}

Returns the length of the value at the given index.
It is equivalent to
 the @Char{#} operator in Lua @see{len-op} and
may trigger a metamethod for the @Q{length} event @see{metatable}.
The result is pushed on the stack.

}

@APIEntry{
int lua_load (lua_State *L,
	lua_Reader reader,
	void *data,
	const char *chunkname,
	const char *mode);|
@apii{0,1,-}

Loads a Lua chunk without running it.
If there are no errors,
@id{lua_load} pushes the compiled chunk as a Lua
function on top of the stack.
Otherwise, it pushes an error message.

The return values of @id{lua_load} are:
@description{

@item{@Lid{LUA_OK}| no errors;}

@item{@defid{LUA_ERRSYNTAX}|
syntax error during precompilation;}

@item{@Lid{LUA_ERRMEM}|
@x{memory allocation (out-of-memory) error};}

@item{@Lid{LUA_ERRGCMM}|

error while running a @idx{__gc} metamethod.
(This error has no relation with the chunk being loaded.
It is generated by the garbage collector.)
}

}

The @id{lua_load} function uses a user-supplied @id{reader} function
to read the
chunk @seeC{lua_Reader}.
The @id{data} argument is an opaque value passed to the reader function.

The @id{chunkname} argument gives a name to the chunk,
which is used for error messages and in debug information @see{debugI}.

@id{lua_load} automatically detects whether the chunk is text or binary
and loads it accordingly (see program @idx{luac}).
The string @id{mode} works as in function @Lid{load},
with the addition that
a @id{NULL} value is equivalent to the string @St{bt}.

@id{lua_load} uses the stack internally,
so the reader function must always leave the stack
unmodified when returning.

If the resulting function has upvalues,
its first upvalue is set to the value of the @x{global environment}
stored at index @id{LUA_RIDX_GLOBALS} in the registry @see{registry}.
When loading main chunks,
this upvalue will be the @id{_ENV} variable @see{globalenv}.
Other upvalues are initialized with @nil.

}

@APIEntry{lua_State *lua_newstate (lua_Alloc f, void *ud);|
@apii{0,0,-}

Creates a new
thread running in a new, independent state.
Returns @id{NULL} if it cannot create the thread or the state
(due to lack of memory).
The argument @id{f} is the @x{allocator function};
Lua does all memory allocation for this state
through this function @seeF{lua_Alloc}.
The second argument, @id{ud}, is an opaque pointer that Lua
passes to the allocator in every call.

}

@APIEntry{void lua_newtable (lua_State *L);|
@apii{0,1,m}

Creates a new empty table and pushes it onto the stack.
It is equivalent to @T{lua_createtable(L, 0, 0)}.

}

@APIEntry{lua_State *lua_newthread (lua_State *L);|
@apii{0,1,m}

Creates a new thread, pushes it on the stack,
and returns a pointer to a @Lid{lua_State} that represents this new thread.
The new thread returned by this function shares with the original thread
its global environment,
but has an independent execution stack.

There is no explicit function to close or to destroy a thread.
Threads are subject to garbage collection,
like any Lua object.

}

@APIEntry{void
 *lua_newuserdata (lua_State *L, size_t size);|
@apii{0,1,m}

This function allocates a new block of memory with the given size,
pushes onto the stack a new full userdata with the block address,
and returns this address.
The host program can freely use this memory.

}

@APIEntry{int lua_next (lua_State *L, int index);|
@apii{1,2|0,e}

Pops a key from the stack,
and pushes a key@En{}value pair from the table at the given index
(the @Q{next} pair after the given key).
If there are no more elements in the table,
then @Lid{lua_next} returns 0 (and pushes nothing).

A typical traversal looks like this:
@verbatim{
/* table is in the stack at index 't' */
lua_pushnil(L); /* first key */

```
while (lua_next(L, t) != 0) {
 /* uses 'key' (at index -2) and 'value' (at index -1) */
 printf("%s - %s\n",
        lua_typename(L, lua_type(L, -2)),
        lua_typename(L, lua_type(L, -1)));
 /* removes 'value'; keeps 'key' for next iteration */
 lua_pop(L, 1);
}
}
```

While traversing a table,
do
 not call @Lid{lua_tolstring} directly on a key,
unless you know that the key is actually a string.
Recall that @Lid{lua_tolstring} may change
the value at the given index;
this confuses the next call to @Lid{lua_next}.

See function @Lid{next} for the caveats of modifying
the table during its traversal.

}

@APIEntry{typedef @ldots lua_Number;|

The type of floats in Lua.

By default this type is double,
but that can be changed to a single float or a long double.
(See @id{LUA_FLOAT_TYPE} in @id{luaconf.h}.)

}

@APIEntry{int lua_numbertointeger (lua_Number n, lua_Integer *p);|

Converts a Lua float to a Lua integer.
This macro assumes that @id{n} has an integral value.
If that value is within the range of Lua integers,
it is converted to an integer and assigned to @T{*p}.
The macro results in a boolean indicating whether the
conversion was successful.
(Note that this range test can be tricky to do
correctly without this macro,
due to roundings.)

This macro may evaluate its arguments
 more than once.

}

@APIEntry{int lua_pcall (lua_State *L, int nargs, int nresults, int msgh);|
@apii{nargs + 1,nresults|1,-}

Calls a function in protected mode.

Both @id{nargs} and @id{nresults} have the same meaning as
in @Lid{lua_call}.
If there are no errors during the call,
@Lid{lua_pcall} behaves exactly like @Lid{lua_call}.
However, if there is any error,
@Lid{lua_pcall} catches it,
pushes a single value on the stack (the error object),
and returns an error code.
Like @Lid{lua_call},
@Lid{lua_pcall} always removes the function
and its arguments from the stack.

If @id{msgh} is 0,
then the error object returned on the stack
is exactly the original error object.
Otherwise, @id{msgh} is the stack index of a
@emph{message handler}.
(This index cannot be a pseudo-index.)
In case of runtime errors,
this function will be called with the error object
and its return value will be the object
returned on the stack by @Lid{lua_pcall}.

Typically, the message handler is used to add
 more debug
information to the error object, such as a stack traceback.
Such information cannot be gathered after the return of @Lid{lua_pcall},
since by then the stack has unwound.

The @Lid{lua_pcall} function returns one of the following constants
(defined in @id{lua.h}):
@description{

@item{@defid{LUA_OK} (0)|
success.}

@item{@defid{LUA_ERRRUN}|
a runtime error.
}

@item{@defid{LUA_ERRMEM}|

```
@x{memory allocation error}.
For such errors, Lua does not call the @x{message handler}.
}

@item{@defid{LUA_ERRERR}|
error while running the @x{message handler}.
}

@item{@defid{LUA_ERRGCMM}|
error while running a @idx{__gc} metamethod.
For such errors, Lua does not call the @x{message handler}
(as this kind of error typically has no relation
with the function being called).
}

}

}

@APIEntry{
int lua_pcallk (lua_State *L,
            int nargs,
            int nresults,
            int msgh,
            lua_KContext ctx,
            lua_KFunction k);|
@apii{nargs + 1,nresults|1,-}

This
 function behaves exactly like @Lid{lua_pcall},
but allows the called function to yield @see{continuations}.

}

@APIEntry{void lua_pop (lua_State *L, int n);|
@apii{n,0,-}

Pops @id{n} elements from the stack.

}

@APIEntry{void lua_pushboolean (lua_State *L, int b);|
@apii{0,1,-}

Pushes a boolean value with value @id{b} onto the stack.

}
```

@APIEntry{void lua_pushcclosure (lua_State *L, lua_CFunction fn, int n);|
@apii{n,1,m}

Pushes a new @N{C closure} onto the stack.

When a @N{C function} is created,
it is possible to associate some values with it,
thus creating a @x{@N{C closure}} @see{c-closure};
these values are then accessible to the function whenever it is called.
To associate values with a @N{C function},
first these values must be pushed onto the stack
(when there are multiple values, the first value is pushed first).
Then @Lid{lua_pushcclosure}
is called to create and push the @N{C function} onto the stack,
with the argument @id{n} telling how many values will
be
associated with the function.
@Lid{lua_pushcclosure} also pops these values from the stack.

The maximum value for @id{n} is 255.

When @id{n} is zero,
this function creates a @def{light @N{C function}},
which is just a pointer to the @N{C function}.
In that case, it never raises a memory error.

}

@APIEntry{void lua_pushcfunction (lua_State *L, lua_CFunction f);|
@apii{0,1,-}

Pushes a @N{C function} onto the stack.
This function receives a pointer to a @N{C function}
and pushes onto the stack a Lua value of type @id{function} that,
when called, invokes the corresponding @N{C function}.

Any function to be callable by Lua must
follow the correct protocol to receive its parameters
and return its results @seeC{lua_CFunction}.

}

@APIEntry{const char *lua_pushfstring (lua_State *L, const char *fmt, ...);|
@apii{0,1,e}

Pushes onto the stack a formatted string
and returns a pointer to this string.
It is similar to the @ANSI{sprintf},

but has some important differences:
@itemize{

@item{
You
 do not have to allocate space for the result:
the result is a Lua string and Lua takes care of memory allocation
(and deallocation, through garbage collection).
}

@item{
The conversion specifiers are quite restricted.
There are no flags, widths, or precisions.
The conversion specifiers can only be
@Char{%%} (inserts the character @Char{%}),
@Char{%s} (inserts a zero-terminated string, with no size restrictions),
@Char{%f} (inserts a @Lid{lua_Number}),
@Char{%I} (inserts a @Lid{lua_Integer}),
@Char{%p} (inserts a pointer as a hexadecimal numeral),
@Char{%d} (inserts an @T{int}),
@Char{%c} (inserts an @T{int} as a one-byte character), and
@Char{%U} (inserts a @T{long int} as a @x{UTF-8} byte sequence).
}

}

Unlike other push functions,
this function checks for the stack space it needs,
including the slot for its result.

}

@APIEntry{void lua_pushglobaltable (lua_State *L);|
@apii{0,1,-}

Pushes the @x{global environment} onto the stack.

}

@APIEntry{void lua_pushinteger (lua_State
 *L, lua_Integer n);|
@apii{0,1,-}

Pushes an integer with value @id{n} onto the stack.

}

@APIEntry{void lua_pushlightuserdata (lua_State *L, void *p);|

@apii{0,1,-}

Pushes a light userdata onto the stack.

Userdata represent @N{C values} in Lua.
A @def{light userdata} represents a pointer, a @T{void*}.
It is a value (like a number):
you do not create it, it has no individual metatable,
and it is not collected (as it was never created).
A light userdata is equal to @Q{any}
light userdata with the same @N{C address}.

}

@APIEntry{const char *lua_pushliteral (lua_State *L, const char *s);|
@apii{0,1,m}

This macro is equivalent to @Lid{lua_pushstring},
but should be used only when @id{s} is a literal string.

}

@APIEntry{const char *lua_pushlstring (lua_State *L, const char *s, size_t len);|
@apii{0,1,m}

Pushes the string pointed to by @id{s} with size @id{len}
onto the stack.
Lua makes (or reuses) an internal copy of the given string,
so the memory at @id{s} can be freed
 or reused immediately after
the function returns.
The string can contain any binary data,
including @x{embedded zeros}.

Returns a pointer to the internal copy of the string.

}

@APIEntry{void lua_pushnil (lua_State *L);|
@apii{0,1,-}

Pushes a nil value onto the stack.

}

@APIEntry{void lua_pushnumber (lua_State *L, lua_Number n);|
@apii{0,1,-}

Pushes a float with value @id{n} onto the stack.

}

@APIEntry{const char *lua_pushstring (lua_State *L, const char *s);|
@apii{0,1,m}

Pushes the zero-terminated string pointed to by @id{s}
onto the stack.
Lua makes (or reuses) an internal copy of the given string,
so the memory at @id{s} can be freed or reused immediately after
the function returns.

Returns a pointer to the internal copy of the string.

If @id{s} is @id{NULL}, pushes @nil and returns @id{NULL}.

}

@APIEntry{int lua_pushthread (lua_State *L);|
@apii{0,1,-}

Pushes the thread represented by @id{L} onto the stack.
Returns 1 if this thread is the @x{main thread} of its state.

}

@APIEntry{void
 lua_pushvalue (lua_State *L, int index);|
@apii{0,1,-}

Pushes a copy of the element at the given index
onto the stack.

}

@APIEntry{
const char *lua_pushvfstring (lua_State *L,
                const char *fmt,
                va_list argp);|
@apii{0,1,m}

Equivalent to @Lid{lua_pushfstring}, except that it receives a @id{va_list}
instead of a variable number of arguments.

}

@APIEntry{int lua_rawequal (lua_State *L, int index1, int index2);|

@apii{0,0,-}

Returns 1 if the two values in indices @id{index1} and
@id{index2} are primitively equal
(that is, without calling the @idx{__eq} metamethod).
Otherwise @N{returns 0}.
Also @N{returns 0} if any of the indices are not valid.

}

@APIEntry{int lua_rawget (lua_State *L, int index);|
@apii{1,1,-}

Similar to @Lid{lua_gettable}, but does a raw access
(i.e., without metamethods).

}

@APIEntry{int lua_rawgeti (lua_State *L, int index, lua_Integer n);|
@apii{0,1,-}

Pushes onto the stack the
 value @T{t[n]},
where @id{t} is the table at the given index.
The access is raw,
that is, it does not invoke the @idx{__index} metamethod.

Returns the type of the pushed value.

}

@APIEntry{int lua_rawgetp (lua_State *L, int index, const void *p);|
@apii{0,1,-}

Pushes onto the stack the value @T{t[k]},
where @id{t} is the table at the given index and
@id{k} is the pointer @id{p} represented as a light userdata.
The access is raw;
that is, it does not invoke the @idx{__index} metamethod.

Returns the type of the pushed value.

}

@APIEntry{size_t lua_rawlen (lua_State *L, int index);|
@apii{0,0,-}

Returns the raw @Q{length} of the value at the given index:

```
for strings, this is the string length;
for tables, this is the result of the length operator (@Char{#})
with no metamethods;
for userdata, this is the size of the block of memory allocated
for the userdata;
for other values, it @N{is 0}.

}

@APIEntry{void lua_rawset (lua_State *L, int index);|
@apii{2,0,m}

Similar to @Lid{lua_settable},
 but does a raw assignment
(i.e., without metamethods).

}

@APIEntry{void lua_rawseti (lua_State *L, int index, lua_Integer i);|
@apii{1,0,m}

Does the equivalent of @T{t[i] = v},
where @id{t} is the table at the given index
and @id{v} is the value at the top of the stack.

This function pops the value from the stack.
The assignment is raw,
that is, it does not invoke the @idx{__newindex} metamethod.

}

@APIEntry{void lua_rawsetp (lua_State *L, int index, const void *p);|
@apii{1,0,m}

Does the equivalent of @T{t[p] = v},
where @id{t} is the table at the given index,
@id{p} is encoded as a light userdata,
and @id{v} is the value at the top of the stack.

This function pops the value from the stack.
The assignment is raw,
that is, it does not invoke @idx{__newindex} metamethod.

}

@APIEntry{
typedef const char * (*lua_Reader) (lua_State *L,
                                    void *data,
```

size_t *size);|

The reader function used by @Lid{lua_load}.
Every
 time it needs another piece of the chunk,
@Lid{lua_load} calls the reader,
passing along its @id{data} parameter.
The reader must return a pointer to a block of memory
with a new piece of the chunk
and set @id{size} to the block size.
The block must exist until the reader function is called again.
To signal the end of the chunk,
the reader must return @id{NULL} or set @id{size} to zero.
The reader function may return pieces of any size greater than zero.

}

@APIEntry{void lua_register (lua_State *L, const char *name, lua_CFunction f);|
@apii{0,0,e}

Sets the @N{C function} @id{f} as the new value of global @id{name}.
It is defined as a macro:
@verbatim{
#define lua_register(L,n,f) \
    (lua_pushcfunction(L, f), lua_setglobal(L, n))
}

}

@APIEntry{void lua_remove (lua_State *L, int index);|
@apii{1,0,-}

Removes the element at the given valid index,
shifting down the elements above this index to fill the gap.
This function cannot be called with a pseudo-index,
because
 a pseudo-index is not an actual stack position.

}

@APIEntry{void lua_replace (lua_State *L, int index);|
@apii{1,0,-}

Moves the top element into the given valid index
without shifting any element
(therefore replacing the value at that given index),
and then pops the top element.

}

@APIEntry{int lua_resume (lua_State *L, lua_State *from, int nargs);|
@apii{?,?,-}

Starts and resumes a coroutine in the given thread @id{L}.

To start a coroutine,
you push onto the thread stack the main function plus any arguments;
then you call @Lid{lua_resume},
with @id{nargs} being the number of arguments.
This call returns when the coroutine suspends or finishes its execution.
When it returns, the stack contains all values passed to @Lid{lua_yield},
or all values returned by the body function.
@Lid{lua_resume} returns
@Lid{LUA_YIELD} if the coroutine yields,
@Lid{LUA_OK} if the coroutine finishes its execution
without errors,
or an error code in case of errors @seeC{lua_pcall}.

In case of errors,
the
 stack is not unwound,
so you can use the debug API over it.
The error object is on the top of the stack.

To resume a coroutine,
you remove any results from the last @Lid{lua_yield},
put on its stack only the values to
be passed as results from @id{yield},
and then call @Lid{lua_resume}.

The parameter @id{from} represents the coroutine that is resuming @id{L}.
If there is no such coroutine,
this parameter can be @id{NULL}.

}

@APIEntry{void lua_rotate (lua_State *L, int idx, int n);|
@apii{0,0,-}

Rotates the stack elements between the valid index @id{idx}
and the top of the stack.
The elements are rotated @id{n} positions in the direction of the top,
for a positive @id{n},
or @T{-n} positions in the direction of the bottom,
for a negative @id{n}.
The absolute value of @id{n} must not be greater than the size

of the slice being rotated.
This function cannot be called with a pseudo-index,
because a pseudo-index is not an actual stack position.

}

@APIEntry{void lua_setallocf
 (lua_State *L, lua_Alloc f, void *ud);|
@apii{0,0,-}

Changes the @x{allocator function} of a given state to @id{f}
with user data @id{ud}.

}

@APIEntry{void lua_setfield (lua_State *L, int index, const char *k);|
@apii{1,0,e}

Does the equivalent to @T{t[k] = v},
where @id{t} is the value at the given index
and @id{v} is the value at the top of the stack.

This function pops the value from the stack.
As in Lua, this function may trigger a metamethod
for the @Q{newindex} event @see{metatable}.

}

@APIEntry{void lua_setglobal (lua_State *L, const char *name);|
@apii{1,0,e}

Pops a value from the stack and
sets it as the new value of global @id{name}.

}

@APIEntry{void lua_seti (lua_State *L, int index, lua_Integer n);|
@apii{1,0,e}

Does the equivalent to @T{t[n] = v},
where @id{t} is the value at the given index
and @id{v} is the value at the top of the stack.

This function pops the value from the stack.
As in Lua, this function may trigger a metamethod
for the @Q{newindex} event
 @see{metatable}.

}

@APIEntry{void lua_setmetatable (lua_State *L, int index);|
@apii{1,0,-}

Pops a table from the stack and
sets it as the new metatable for the value at the given index.

}

@APIEntry{void lua_settable (lua_State *L, int index);|
@apii{2,0,e}

Does the equivalent to @T{t[k] = v},
where @id{t} is the value at the given index,
@id{v} is the value at the top of the stack,
and @id{k} is the value just below the top.

This function pops both the key and the value from the stack.
As in Lua, this function may trigger a metamethod
for the @Q{newindex} event @see{metatable}.

}

@APIEntry{void lua_settop (lua_State *L, int index);|
@apii{?,?,-}

Accepts any index, @N{or 0},
and sets the stack top to this index.
If the new top is larger than the old one,
then the new elements are filled with @nil.
If @id{index} @N{is 0}, then all stack elements are removed.

}

@APIEntry{void lua_setuservalue (lua_State *L, int index);|
@apii{1,0,-}

Pops a value from the stack and sets it as
the
 new value associated to the full userdata at the given index.

}

@APIEntry{typedef struct lua_State lua_State;|

An opaque structure that points to a thread and indirectly
(through the thread) to the whole state of a Lua interpreter.

The Lua library is fully reentrant:
it has no global variables.
All information about a state is accessible through this structure.

A pointer to this structure must be passed as the first argument to
every function in the library, except to @Lid{lua_newstate},
which creates a Lua state from scratch.

}

@APIEntry{int lua_status (lua_State *L);|
@apii{0,0,-}

Returns the status of the thread @id{L}.

The status can be 0 (@Lid{LUA_OK}) for a normal thread,
an error code if the thread finished the execution
of a @Lid{lua_resume} with an error,
or @defid{LUA_YIELD} if the thread is suspended.

You can only call functions in threads with status @Lid{LUA_OK}.
You can resume threads with status @Lid{LUA_OK}
(to start a new coroutine) or @Lid{LUA_YIELD}
(to
 resume a coroutine).

}

@APIEntry{size_t lua_stringtonumber (lua_State *L, const char *s);|
@apii{0,1,-}

Converts the zero-terminated string @id{s} to a number,
pushes that number into the stack,
and returns the total size of the string,
that is, its length plus one.
The conversion can result in an integer or a float,
according to the lexical conventions of Lua @see{lexical}.
The string may have leading and trailing spaces and a sign.
If the string is not a valid numeral,
returns 0 and pushes nothing.
(Note that the result can be used as a boolean,
true if the conversion succeeds.)

}

@APIEntry{int lua_toboolean (lua_State *L, int index);|
@apii{0,0,-}

Converts the Lua value at the given index to a @N{C boolean}
value (@N{0 or 1}).
Like all tests in Lua,
@Lid{lua_toboolean} returns true for any Lua value
different from @false and @nil;
otherwise it returns false.
(If you want to accept only actual boolean values,
use @Lid{lua_isboolean} to test the value's type.)

}

@APIEntry{lua_CFunction
 lua_tocfunction (lua_State *L, int index);|
@apii{0,0,-}

Converts a value at the given index to a @N{C function}.
That value must be a @N{C function};
otherwise, returns @id{NULL}.

}

@APIEntry{lua_Integer lua_tointeger (lua_State *L, int index);|
@apii{0,0,-}

Equivalent to @Lid{lua_tointegerx} with @id{isnum} equal to @id{NULL}.

}

@APIEntry{lua_Integer lua_tointegerx (lua_State *L, int index, int *isnum);|
@apii{0,0,-}

Converts the Lua value at the given index
to the signed integral type @Lid{lua_Integer}.
The Lua value must be an integer,
or a number or string convertible to an integer @see{coercion};
otherwise, @id{lua_tointegerx} @N{returns 0}.

If @id{isnum} is not @id{NULL},
its referent is assigned a boolean value that
indicates whether the operation succeeded.

}

@APIEntry{const char *lua_tolstring (lua_State *L, int index, size_t *len);|
@apii{0,0,m}

Converts the Lua value at the given index to a @N{C string}.
If @id{len} is not @id{NULL},

it sets @T{*len}
 with the string length.
The Lua value must be a string or a number;
otherwise, the function returns @id{NULL}.
If the value is a number,
then @id{lua_tolstring} also
@emph{changes the actual value in the stack to a string}.
(This change confuses @Lid{lua_next}
when @id{lua_tolstring} is applied to keys during a table traversal.)

@id{lua_tolstring} returns a pointer
to a string inside the Lua state.
This string always has a zero (@Char{\0})
after its last character (as @N{in C}),
but can contain other zeros in its body.

Because Lua has garbage collection,
there is no guarantee that the pointer returned by @id{lua_tolstring}
will be valid after the corresponding Lua value is removed from the stack.

}

@APIEntry{lua_Number lua_tonumber (lua_State *L, int index);|
@apii{0,0,-}

Equivalent to @Lid{lua_tonumberx} with @id{isnum} equal to @id{NULL}.

}

@APIEntry{lua_Number lua_tonumberx (lua_State *L, int index, int *isnum);|
@apii{0,0,-}

Converts the Lua value at the given index
to the
 @N{C type} @Lid{lua_Number} @seeC{lua_Number}.
The Lua value must be a number or a string convertible to a number
@see{coercion};
otherwise, @Lid{lua_tonumberx} @N{returns 0}.

If @id{isnum} is not @id{NULL},
its referent is assigned a boolean value that
indicates whether the operation succeeded.

}

@APIEntry{const void *lua_topointer (lua_State *L, int index);|
@apii{0,0,-}

Converts the value at the given index to a generic
@N{C pointer} (@T{void*}).
The value can be a userdata, a table, a thread, or a function;
otherwise, @id{lua_topointer} returns @id{NULL}.
Different objects will give different pointers.
There is no way to convert the pointer back to its original value.

Typically this function is used only for hashing and debug information.

}

@APIEntry{const char *lua_tostring (lua_State *L, int index);|
@apii{0,0,m}

Equivalent to @Lid{lua_tolstring} with @id{len} equal to @id{NULL}.

}

@APIEntry{lua_State *lua_tothread (lua_State *L, int index);|
@apii{0,0,-}

Converts the
 value at the given index to a Lua thread
(represented as @T{lua_State*}).
This value must be a thread;
otherwise, the function returns @id{NULL}.

}

@APIEntry{void *lua_touserdata (lua_State *L, int index);|
@apii{0,0,-}

If the value at the given index is a full userdata,
returns its block address.
If the value is a light userdata,
returns its pointer.
Otherwise, returns @id{NULL}.

}

@APIEntry{int lua_type (lua_State *L, int index);|
@apii{0,0,-}

Returns the type of the value in the given valid index,
or @id{LUA_TNONE} for a non-valid (but acceptable) index.
The types returned by @Lid{lua_type} are coded by the following constants
defined in @id{lua.h}:
@defid{LUA_TNIL} (0),

@defid{LUA_TNUMBER},
@defid{LUA_TBOOLEAN},
@defid{LUA_TSTRING},
@defid{LUA_TTABLE},
@defid{LUA_TFUNCTION},
@defid{LUA_TUSERDATA},
@defid{LUA_TTHREAD},
and
@defid{LUA_TLIGHTUSERDATA}.

}

@APIEntry{const char *lua_typename (lua_State *L, int tp);|
@apii{0,0,-}

Returns the name of the type encoded by the value
@id{tp},
which must be one the values returned by @Lid{lua_type}.

}

@APIEntry{typedef @ldots lua_Unsigned;|

The unsigned version of @Lid{lua_Integer}.

}

@APIEntry{int lua_upvalueindex (int i);|
@apii{0,0,-}

Returns the pseudo-index that represents the @id{i}-th upvalue of
the running function @see{c-closure}.

}

@APIEntry{const lua_Number *lua_version (lua_State *L);|
@apii{0,0,-}

Returns the address of the version number
(a C static variable)
stored in the Lua core.
When called with a valid @Lid{lua_State},
returns the address of the version used to create that state.
When called with @id{NULL},
returns the address of the version running the call.

}

```
@APIEntry{
typedef int (*lua_Writer) (lua_State *L,
                    const void* p,
                    size_t sz,
                    void* ud);|

The type of the writer function used by @Lid{lua_dump}.
Every time it produces another piece of chunk,
@Lid{lua_dump} calls the writer,
passing along the buffer
 to be written (@id{p}),
its size (@id{sz}),
and the @id{data} parameter supplied to @Lid{lua_dump}.

The writer returns an error code:
@N{0 means} no errors;
any other value means an error and stops @Lid{lua_dump} from
calling the writer again.

}

@APIEntry{void lua_xmove (lua_State *from, lua_State *to, int n);|
@apii{?,?,-}

Exchange values between different threads of the same state.

This function pops @id{n} values from the stack @id{from},
and pushes them onto the stack @id{to}.

}

@APIEntry{int lua_yield (lua_State *L, int nresults);|
@apii{?,?,e}

This function is equivalent to @Lid{lua_yieldk},
but it has no continuation @see{continuations}.
Therefore, when the thread resumes,
it continues the function that called
the function calling @id{lua_yield}.

}


@APIEntry{
int lua_yieldk (lua_State *L,
          int nresults,
          lua_KContext ctx,
          lua_KFunction k);|
```

@apii{?,?,e}

Yields a coroutine (thread).

When a @N{C function} calls @Lid{lua_yieldk},
the
 running coroutine suspends its execution,
and the call to @Lid{lua_resume} that started this coroutine returns.
The parameter @id{nresults} is the number of values from the stack
that will be passed as results to @Lid{lua_resume}.

When the coroutine is resumed again,
Lua calls the given @x{continuation function} @id{k} to continue
the execution of the @N{C function} that yielded @see{continuations}.
This continuation function receives the same stack
from the previous function,
with the @id{n} results removed and
replaced by the arguments passed to @Lid{lua_resume}.
Moreover,
the continuation function receives the value @id{ctx}
that was passed to @Lid{lua_yieldk}.

Usually, this function does not return;
when the coroutine eventually resumes,
it continues executing the continuation function.
However, there is one special case,
which is when this function is called
from inside a line or a count hook @see{debugI}.
In that case, @id{lua_yieldk} should be called with no continuation
(probably
 in the form of @Lid{lua_yield}) and no results,
and the hook should return immediately after the call.
Lua will yield and,
when the coroutine resumes again,
it will continue the normal execution
of the (Lua) function that triggered the hook.

This function can raise an error if it is called from a thread
with a pending C call with no continuation function,
or it is called from a thread that is not running inside a resume
(e.g., the main thread).

}

}

@sect2{debugI| @title{The Debug Interface}

Lua has no built-in debugging facilities.
Instead, it offers a special interface
by means of functions and @emph{hooks}.
This interface allows the construction of different
kinds of debuggers, profilers, and other tools
that need @Q{inside information} from the interpreter.

```
@APIEntry{
typedef struct lua_Debug {
 int event;
 const char *name;          /* (n) */
 const char *namewhat;      /* (n) */
 const char *what;          /* (S) */
 const char *source;        /*
 (S) */
 int currentline;           /* (l) */
 int linedefined;           /* (S) */
 int lastlinedefined;       /* (S) */
 unsigned char nups;        /* (u) number of upvalues */
 unsigned char nparams;     /* (u) number of parameters */
 char isvararg;             /* (u) */
 char istailcall;           /* (t) */
 char short_src[LUA_IDSIZE]; /* (S) */
 /* private part */
 @rep{other fields}
} lua_Debug;
|
```

A structure used to carry different pieces of
information about a function or an activation record.
@Lid{lua_getstack} fills only the private part
of this structure, for later use.
To fill the other fields of @Lid{lua_Debug} with useful information,
call @Lid{lua_getinfo}.

The fields of @Lid{lua_Debug} have the following meaning:
@description{

@item{@id{source}|
the name of the chunk that created the function.
If @T{source} starts with a @Char{@At},
it means that the function was defined in a file where
the file name follows the @Char{@At}.
If @T{source} starts with
 a @Char{=},
the remainder of its contents describe the source in a user-dependent manner.
Otherwise,

the function was defined in a string where
@T{source} is that string.
}

@item{@id{short_src}|
a @Q{printable} version of @T{source}, to be used in error messages.
}

@item{@id{linedefined}|
the line number where the definition of the function starts.
}

@item{@id{lastlinedefined}|
the line number where the definition of the function ends.
}

@item{@id{what}|
the string @T{"Lua"} if the function is a Lua function,
@T{"C"} if it is a @N{C function},
@T{"main"} if it is the main part of a chunk.
}

@item{@id{currentline}|
the current line where the given function is executing.
When no line information is available,
@T{currentline} is set to @num{-1}.
}

@item{@id{name}|
a reasonable name for the given function.
Because functions in Lua are first-class values,
they do not have a fixed name:
some functions can be the value of multiple global variables,
while others can be stored only in a table
field.
The @T{lua_getinfo} function checks how the function was
called to find a suitable name.
If it cannot find a name,
then @id{name} is set to @id{NULL}.
}

@item{@id{namewhat}|
explains the @T{name} field.
The value of @T{namewhat} can be
@T{"global"}, @T{"local"}, @T{"method"},
@T{"field"}, @T{"upvalue"}, or @T{""} (the empty string),
according to how the function was called.
(Lua uses the empty string when no other option seems to apply.)

}

@item{@id{istailcall}|
true if this function invocation was called by a tail call.
In this case, the caller of this level is not in the stack.
}

@item{@id{nups}|
the number of upvalues of the function.
}

@item{@id{nparams}|
the number of fixed parameters of the function
(always @N{0 for} @N{C functions}).
}

@item{@id{isvararg}|
true if the function is a vararg function
(always true for @N{C functions}).
}

}

}

@APIEntry{lua_Hook lua_gethook (lua_State *L);|
@apii{0,0,-}

Returns the current hook function.

}

@APIEntry{int lua_gethookcount
 (lua_State *L);|
@apii{0,0,-}

Returns the current hook count.

}

@APIEntry{int lua_gethookmask (lua_State *L);|
@apii{0,0,-}

Returns the current hook mask.

}

@APIEntry{int lua_getinfo (lua_State *L, const char *what, lua_Debug *ar);|

@apii{0|1,0|1|2,e}

Gets information about a specific function or function invocation.

To get information about a function invocation,
the parameter @id{ar} must be a valid activation record that was
filled by a previous call to @Lid{lua_getstack} or
given as argument to a hook @seeC{lua_Hook}.

To get information about a function, you push it onto the stack
and start the @id{what} string with the character @Char{>}.
(In that case,
@id{lua_getinfo} pops the function from the top of the stack.)
For instance, to know in which line a function @id{f} was defined,
you can write the following code:
@verbatim{
lua_Debug ar;
lua_getglobal(L, "f"); /* get global 'f' */
lua_getinfo(L, ">S", &ar);
printf("%d\n", ar.linedefined);
}

Each character in the
 string @id{what}
selects some fields of the structure @id{ar} to be filled or
a value to be pushed on the stack:
@description{

@item{@Char{n}| fills in the field @id{name} and @id{namewhat};
}

@item{@Char{S}|
fills in the fields @id{source}, @id{short_src},
@id{linedefined}, @id{lastlinedefined}, and @id{what};
}

@item{@Char{l}| fills in the field @id{currentline};
}

@item{@Char{t}| fills in the field @id{istailcall};
}

@item{@Char{u}| fills in the fields
@id{nups}, @id{nparams}, and @id{isvararg};
}

@item{@Char{f}|
pushes onto the stack the function that is

running at the given level;
}

@item{@Char{L}|
pushes onto the stack a table whose indices are the
numbers of the lines that are valid on the function.
(A @emph{valid line} is a line with some associated code,
that is, a line where you can put a break point.
Non-valid lines include empty lines and comments.)

If this option is given together with option @Char{f},
its table is pushed after the function.
}

}

This function
returns 0 on error
(for instance, an invalid option in @id{what}).

}

@APIEntry{const char *lua_getlocal (lua_State *L, const lua_Debug *ar, int n);|
@apii{0,0|1,-}

Gets information about a local variable of
a given activation record or a given function.

In the first case,
the parameter @id{ar} must be a valid activation record that was
filled by a previous call to @Lid{lua_getstack} or
given as argument to a hook @seeC{lua_Hook}.
The index @id{n} selects which local variable to inspect;
see @Lid{debug.getlocal} for details about variable indices
and names.

@Lid{lua_getlocal} pushes the variable's value onto the stack
and returns its name.

In the second case, @id{ar} must be @id{NULL} and the function
to be inspected must be at the top of the stack.
In this case, only parameters of Lua functions are visible
(as there is no information about what variables are active)
and no values are pushed onto the stack.

Returns @id{NULL} (and pushes nothing)
when the index is greater than
the

number of active local variables.

}

@APIEntry{int lua_getstack (lua_State *L, int level, lua_Debug *ar);|
@apii{0,0,-}

Gets information about the interpreter runtime stack.

This function fills parts of a @Lid{lua_Debug} structure with
an identification of the @emph{activation record}
of the function executing at a given level.
@N{Level 0} is the current running function,
whereas level @M{n+1} is the function that has called level @M{n}
(except for tail calls, which do not count on the stack).
When there are no errors, @Lid{lua_getstack} returns 1;
when called with a level greater than the stack depth,
it returns 0.

}

@APIEntry{const char *lua_getupvalue (lua_State *L, int funcindex, int n);|
@apii{0,0|1,-}

Gets information about the @id{n}-th upvalue
of the closure at index @id{funcindex}.
It pushes the upvalue's value onto the stack
and returns its name.
Returns @id{NULL} (and pushes nothing)
when the index @id{n} is greater than the number of upvalues.

For @N{C functions}, this
function uses the empty string @T{""}
as a name for all upvalues.
(For Lua functions,
upvalues are the external local variables that the function uses,
and that are consequently included in its closure.)

Upvalues have no particular order,
as they are active through the whole function.
They are numbered in an arbitrary order.

}

@APIEntry{typedef void (*lua_Hook) (lua_State *L, lua_Debug *ar);|

Type for debugging hook functions.

Whenever a hook is called, its @id{ar} argument has its field
@id{event} set to the specific event that triggered the hook.
Lua identifies these events with the following constants:
@defid{LUA_HOOKCALL}, @defid{LUA_HOOKRET},
@defid{LUA_HOOKTAILCALL}, @defid{LUA_HOOKLINE},
and @defid{LUA_HOOKCOUNT}.
Moreover, for line events, the field @id{currentline} is also set.
To get the value of any other field in @id{ar},
the hook must call @Lid{lua_getinfo}.

For call events, @id{event} can be @id{LUA_HOOKCALL},
the normal value, or @id{LUA_HOOKTAILCALL}, for a tail
call;
in this case, there will be no corresponding return event.

While Lua is running a hook, it disables other calls to hooks.
Therefore, if a hook calls back Lua to execute a function or a chunk,
this execution occurs without any calls to hooks.

Hook functions cannot have continuations,
that is, they cannot call @Lid{lua_yieldk},
@Lid{lua_pcallk}, or @Lid{lua_callk} with a non-null @id{k}.

Hook functions can yield under the following conditions:
Only count and line events can yield;
to yield, a hook function must finish its execution
calling @Lid{lua_yield} with @id{nresults} equal to zero
(that is, with no values).

}

@APIEntry{void lua_sethook (lua_State *L, lua_Hook f, int mask, int count);|
@apii{0,0,-}

Sets the debugging hook function.

Argument @id{f} is the hook function.
@id{mask} specifies on which events the hook will be called:
it is formed by a bitwise OR of the constants
@defid{LUA_MASKCALL},
@defid{LUA_MASKRET},
@defid{LUA_MASKLINE},
and @defid{LUA_MASKCOUNT}.
The
@id{count} argument is only meaningful when the mask
includes @id{LUA_MASKCOUNT}.
For each event, the hook is called as explained below:
@description{

@item{The call hook| is called when the interpreter calls a function.
The hook is called just after Lua enters the new function,
before the function gets its arguments.
}

@item{The return hook| is called when the interpreter returns from a function.
The hook is called just before Lua leaves the function.
There is no standard way to access the values
to be returned by the function.
}

@item{The line hook| is called when the interpreter is about to
start the execution of a new line of code,
or when it jumps back in the code (even to the same line).
(This event only happens while Lua is executing a Lua function.)
}

@item{The count hook| is called after the interpreter executes every
@T{count} instructions.
(This event only happens while Lua is executing a Lua function.)
}

}

A hook is disabled by setting @id{mask} to zero.

}

@APIEntry{const
 char *lua_setlocal (lua_State *L, const lua_Debug *ar, int n);|
@apii{0|1,0,-}

Sets the value of a local variable of a given activation record.
It assigns the value at the top of the stack
to the variable and returns its name.
It also pops the value from the stack.

Returns @id{NULL} (and pops nothing)
when the index is greater than
the number of active local variables.

Parameters @id{ar} and @id{n} are as in function @Lid{lua_getlocal}.

}

@APIEntry{const char *lua_setupvalue (lua_State *L, int funcindex, int n);|
@apii{0|1,0,-}

Sets the value of a closure's upvalue.
It assigns the value at the top of the stack
to the upvalue and returns its name.
It also pops the value from the stack.

Returns @id{NULL} (and pops nothing)
when the index @id{n} is greater than the number of upvalues.

Parameters @id{funcindex} and @id{n} are as in function @Lid{lua_getupvalue}.

}

@APIEntry{void *lua_upvalueid (lua_State *L, int funcindex, int n);|
@apii{0,0,-}

Returns a unique identifier
 for the upvalue numbered @id{n}
from the closure at index @id{funcindex}.

These unique identifiers allow a program to check whether different
closures share upvalues.
Lua closures that share an upvalue
(that is, that access a same external local variable)
will return identical ids for those upvalue indices.

Parameters @id{funcindex} and @id{n} are as in function @Lid{lua_getupvalue},
but @id{n} cannot be greater than the number of upvalues.

}

@APIEntry{
void lua_upvaluejoin (lua_State *L, int funcindex1, int n1,
                      int funcindex2, int n2);|
@apii{0,0,-}

Make the @id{n1}-th upvalue of the Lua closure at index @id{funcindex1}
refer to the @id{n2}-th upvalue of the Lua closure at index @id{funcindex2}.

}

}

}

@C{----------}
@sect1{@title{The Auxiliary Library}

@index{lauxlib.h}
The @def{auxiliary library} provides several convenient functions
to interface C with Lua.
While the basic
API provides the primitive functions for all
interactions between C and Lua,
the auxiliary library provides higher-level functions for some
common tasks.

All functions and types from the auxiliary library
are defined in header file @id{lauxlib.h} and
have a prefix @id{luaL_}.

All functions in the auxiliary library are built on
top of the basic API,
and so they provide nothing that cannot be done with that API.
Nevertheless, the use of the auxiliary library ensures
more consistency to your code.

Several functions in the auxiliary library use internally some
extra stack slots.
When a function in the auxiliary library uses less than five slots,
it does not check the stack size;
it simply assumes that there are enough slots.

Several functions in the auxiliary library are used to
check @N{C function} arguments.
Because the error message is formatted for arguments
(e.g., @St{bad argument #1}),
you should not use these functions for other stack values.

Functions called @id{luaL_check*}
always
raise an error if the check is not satisfied.

@sect2{@title{Functions and Types}

Here we list all functions and types from the auxiliary library
in alphabetical order.

@APIEntry{void luaL_addchar (luaL_Buffer *B, char c);|
@apii{?,?,m}

Adds the byte @id{c} to the buffer @id{B}
@seeC{luaL_Buffer}.

}

@APIEntry{void luaL_addlstring (luaL_Buffer *B, const char *s, size_t l);|
@apii{?,?,m}

Adds the string pointed to by @id{s} with length @id{l} to
the buffer @id{B}
@seeC{luaL_Buffer}.
The string can contain @x{embedded zeros}.

}

@APIEntry{void luaL_addsize (luaL_Buffer *B, size_t n);|
@apii{?,?,-}

Adds to the buffer @id{B} @seeC{luaL_Buffer}
a string of length @id{n} previously copied to the
buffer area @seeC{luaL_prepbuffer}.

}

@APIEntry{void luaL_addstring (luaL_Buffer *B, const char *s);|
@apii{?,?,m}

Adds the zero-terminated string pointed to by @id{s}
to the buffer @id{B}
@seeC{luaL_Buffer}.

}

@APIEntry{void luaL_addvalue (luaL_Buffer *B);|
@apii{1,?,m}

Adds
 the value at the top of the stack
to the buffer @id{B}
@seeC{luaL_Buffer}.
Pops the value.

This is the only function on string buffers that can (and must)
be called with an extra element on the stack,
which is the value to be added to the buffer.

}

@APIEntry{
void luaL_argcheck (lua_State *L,

```
                int cond,
                int arg,
                const char *extramsg);|
@apii{0,0,v}

Checks whether @id{cond} is true.
If it is not, raises an error with a standard message @seeF{luaL_argerror}.

}

@APIEntry{int luaL_argerror (lua_State *L, int arg, const char *extramsg);|
@apii{0,0,v}

Raises an error reporting a problem with argument @id{arg}
of the @N{C function} that called it,
using a standard message
that includes @id{extramsg} as a comment:
@verbatim{
bad argument #@rep{arg} to '@rep{funcname}' (@rep{extramsg})
}
This function never returns.

}

@APIEntry{typedef struct luaL_Buffer luaL_Buffer;|

Type for a @def{string buffer}.

A string buffer allows @N{C
 code} to build Lua strings piecemeal.
Its pattern of use is as follows:
@itemize{

@item{First declare a variable @id{b} of type @Lid{luaL_Buffer}.}

@item{Then initialize it with a call @T{luaL_buffinit(L, &b)}.}

@item{
Then add string pieces to the buffer calling any of
the @id{luaL_add*} functions.
}

@item{
Finish by calling @T{luaL_pushresult(&b)}.
This call leaves the final string on the top of the stack.
}

}
```

If you know beforehand the total size of the resulting string,
you can use the buffer like this:
@itemize{

@item{First declare a variable @id{b} of type @Lid{luaL_Buffer}.}

@item{Then initialize it and preallocate a space of
size @id{sz} with a call @T{luaL_buffinitsize(L, &b, sz)}.}

@item{Then copy the string into that space.}

@item{
Finish by calling @T{luaL_pushresultsize(&b, sz)},
where @id{sz} is the total size of the resulting string
copied into that space.
}

}

During its normal operation,
a string buffer uses a variable number of stack slots.
So, while using
 a buffer, you cannot assume that you know where
the top of the stack is.
You can use the stack between successive calls to buffer operations
as long as that use is balanced;
that is,
when you call a buffer operation,
the stack is at the same level
it was immediately after the previous buffer operation.
(The only exception to this rule is @Lid{luaL_addvalue}.)
After calling @Lid{luaL_pushresult} the stack is back to its
level when the buffer was initialized,
plus the final string on its top.

}

@APIEntry{void luaL_buffinit (lua_State *L, luaL_Buffer *B);|
@apii{0,0,-}

Initializes a buffer @id{B}.
This function does not allocate any space;
the buffer must be declared as a variable
@seeC{luaL_Buffer}.

}

@APIEntry{char *luaL_buffinitsize (lua_State *L, luaL_Buffer *B, size_t sz);|
@apii{?,?,m}

Equivalent to the sequence
@Lid{luaL_buffinit}, @Lid{luaL_prepbuffsize}.

}

@APIEntry{int luaL_callmeta (lua_State *L, int obj, const char *e);|
@apii{0,0|1,e}

Calls a metamethod.

If the object
 at index @id{obj} has a metatable and this
metatable has a field @id{e},
this function calls this field passing the object as its only argument.
In this case this function returns true and pushes onto the
stack the value returned by the call.
If there is no metatable or no metamethod,
this function returns false (without pushing any value on the stack).

}

@APIEntry{void luaL_checkany (lua_State *L, int arg);|
@apii{0,0,v}

Checks whether the function has an argument
of any type (including @nil) at position @id{arg}.

}

@APIEntry{lua_Integer luaL_checkinteger (lua_State *L, int arg);|
@apii{0,0,v}

Checks whether the function argument @id{arg} is an integer
(or can be converted to an integer)
and returns this integer cast to a @Lid{lua_Integer}.

}

@APIEntry{const char *luaL_checklstring (lua_State *L, int arg, size_t *l);|
@apii{0,0,v}

Checks whether the function argument @id{arg} is a string
and returns this string;
if @id{l} is not @id{NULL} fills @T{*l}
with the string's length.

This
 function uses @Lid{lua_tolstring} to get its result,
so all conversions and caveats of that function apply here.

}

@APIEntry{lua_Number luaL_checknumber (lua_State *L, int arg);|
@apii{0,0,v}

Checks whether the function argument @id{arg} is a number
and returns this number.

}

@APIEntry{
int luaL_checkoption (lua_State *L,
                int arg,
                const char *def,
                const char *const lst[]);|
@apii{0,0,v}

Checks whether the function argument @id{arg} is a string and
searches for this string in the array @id{lst}
(which must be NULL-terminated).
Returns the index in the array where the string was found.
Raises an error if the argument is not a string or
if the string cannot be found.

If @id{def} is not @id{NULL},
the function uses @id{def} as a default value when
there is no argument @id{arg} or when this argument is @nil.

This is a useful function for mapping strings to @N{C enums}.
(The usual convention in Lua libraries
 is
to use strings instead of numbers to select options.)

}

@APIEntry{void luaL_checkstack (lua_State *L, int sz, const char *msg);|
@apii{0,0,v}

Grows the stack size to @T{top + sz} elements,
raising an error if the stack cannot grow to that size.
@id{msg} is an additional text to go into the error message
(or @id{NULL} for no additional text).

}

@APIEntry{const char *luaL_checkstring (lua_State *L, int arg);|
@apii{0,0,v}

Checks whether the function argument @id{arg} is a string
and returns this string.

This function uses @Lid{lua_tolstring} to get its result,
so all conversions and caveats of that function apply here.

}

@APIEntry{void luaL_checktype (lua_State *L, int arg, int t);|
@apii{0,0,v}

Checks whether the function argument @id{arg} has type @id{t}.
See @Lid{lua_type} for the encoding of types for @id{t}.

}

@APIEntry{void *luaL_checkudata (lua_State *L, int arg, const char *tname);|
@apii{0,0,v}

Checks whether the function argument @id{arg} is a userdata
of the
 type @id{tname} @seeC{luaL_newmetatable} and
returns the userdata address @seeC{lua_touserdata}.

}

@APIEntry{void luaL_checkversion (lua_State *L);|
@apii{0,0,v}

Checks whether the core running the call,
the core that created the Lua state,
and the code making the call are all using the same version of Lua.
Also checks whether the core running the call
and the core that created the Lua state
are using the same address space.

}

@APIEntry{int luaL_dofile (lua_State *L, const char *filename);|
@apii{0,?,e}

Loads and runs the given file.
It is defined as the following macro:

@verbatim{
(luaL_loadfile(L, filename) || lua_pcall(L, 0, LUA_MULTRET, 0))
}
It returns false if there are no errors
or true in case of errors.

}

@APIEntry{int luaL_dostring (lua_State *L, const char *str);|
@apii{0,?,-}

Loads and runs the given string.
It is defined as the following macro:
@verbatim{
(luaL_loadstring(L, str) || lua_pcall(L, 0, LUA_MULTRET, 0))
}
It returns false if there are no errors
or true
 in case of errors.

}

@APIEntry{int luaL_error (lua_State *L, const char *fmt, ...);|
@apii{0,0,v}

Raises an error.
The error message format is given by @id{fmt}
plus any extra arguments,
following the same rules of @Lid{lua_pushfstring}.
It also adds at the beginning of the message the file name and
the line number where the error occurred,
if this information is available.

This function never returns,
but it is an idiom to use it in @N{C functions}
as @T{return luaL_error(@rep{args})}.

}

@APIEntry{int luaL_execresult (lua_State *L, int stat);|
@apii{0,3,m}

This function produces the return values for
process-related functions in the standard library
(@Lid{os.execute} and @Lid{io.close}).

}

```
@APIEntry{
int luaL_fileresult (lua_State *L, int stat, const char *fname);|
@apii{0,1|3,m}

This function produces the return values for
file-related functions in the standard library
(@Lid{io.open}, @Lid{os.rename}, @Lid{file:seek}, etc.).

}

@APIEntry{int luaL_getmetafield (lua_State
 *L, int obj, const char *e);|
@apii{0,0|1,m}

Pushes onto the stack the field @id{e} from the metatable
of the object at index @id{obj} and returns the type of the pushed value.
If the object does not have a metatable,
or if the metatable does not have this field,
pushes nothing and returns @id{LUA_TNIL}.

}

@APIEntry{int luaL_getmetatable (lua_State *L, const char *tname);|
@apii{0,1,m}

Pushes onto the stack the metatable associated with name @id{tname}
in the registry @seeC{luaL_newmetatable}
(@nil if there is no metatable associated with that name).
Returns the type of the pushed value.

}

@APIEntry{int luaL_getsubtable (lua_State *L, int idx, const char *fname);|
@apii{0,1,e}

Ensures that the value @T{t[fname]},
where @id{t} is the value at index @id{idx},
is a table,
and pushes that table onto the stack.
Returns true if it finds a previous table there
and false if it creates a new table.

}

@APIEntry{
const char *luaL_gsub (lua_State *L,
                       const char *s,
```

```
                 const char *p,
                const char *r);|
@apii{0,1,m}
```

Creates a copy of string @id{s} by replacing
any occurrence of the string @id{p}
with the string @id{r}.
Pushes the resulting string on the stack and returns it.

}

```
@APIEntry{lua_Integer luaL_len (lua_State *L, int index);|
@apii{0,0,e}
```

Returns the @Q{length} of the value at the given index
as a number;
it is equivalent to the @Char{#} operator in Lua @see{len-op}.
Raises an error if the result of the operation is not an integer.
(This case only can happen through metamethods.)

}

```
@APIEntry{
int luaL_loadbuffer (lua_State *L,
                const char *buff,
                size_t sz,
                const char *name);|
@apii{0,1,-}
```

Equivalent to @Lid{luaL_loadbufferx} with @id{mode} equal to @id{NULL}.

}

```
@APIEntry{
int luaL_loadbufferx (lua_State *L,
                 const char *buff,
                 size_t sz,
                 const char *name,

           const char *mode);|
@apii{0,1,-}
```

Loads a buffer as a Lua chunk.
This function uses @Lid{lua_load} to load the chunk in the
buffer pointed to by @id{buff} with size @id{sz}.

This function returns the same results as @Lid{lua_load}.

@id{name} is the chunk name,
used for debug information and error messages.
The string @id{mode} works as in function @Lid{lua_load}.

}

@APIEntry{int luaL_loadfile (lua_State *L, const char *filename);|
@apii{0,1,m}

Equivalent to @Lid{luaL_loadfilex} with @id{mode} equal to @id{NULL}.

}

@APIEntry{int luaL_loadfilex (lua_State *L, const char *filename,
const char *mode);|
@apii{0,1,m}

Loads a file as a Lua chunk.
This function uses @Lid{lua_load} to load the chunk in the file
named @id{filename}.
If @id{filename} is @id{NULL},
then it loads from the standard input.
The first line in the file is ignored if it starts with a @T{#}.

The string @id{mode} works as in function @Lid{lua_load}.

This function
returns the same results as @Lid{lua_load},
but it has an extra error code @defid{LUA_ERRFILE}
for file-related errors
(e.g., it cannot open or read the file).

As @Lid{lua_load}, this function only loads the chunk;
it does not run it.

}

@APIEntry{int luaL_loadstring (lua_State *L, const char *s);|
@apii{0,1,-}

Loads a string as a Lua chunk.
This function uses @Lid{lua_load} to load the chunk in
the zero-terminated string @id{s}.

This function returns the same results as @Lid{lua_load}.

Also as @Lid{lua_load}, this function only loads the chunk;

it does not run it.

}

@APIEntry{void luaL_newlib (lua_State *L, const luaL_Reg l[]);|
@apii{0,1,m}

Creates a new table and registers there
the functions in list @id{l}.

It is implemented as the following macro:
@verbatim{
(luaL_newlibtable(L,l), luaL_setfuncs(L,l,0))
}
The array @id{l} must be the actual array,
not a pointer to it.

}

@APIEntry{void luaL_newlibtable (lua_State *L, const luaL_Reg l[]);|
@apii{0,1,m}

Creates a new
 table with a size optimized
to store all entries in the array @id{l}
(but does not actually store them).
It is intended to be used in conjunction with @Lid{luaL_setfuncs}
@seeF{luaL_newlib}.

It is implemented as a macro.
The array @id{l} must be the actual array,
not a pointer to it.

}

@APIEntry{int luaL_newmetatable (lua_State *L, const char *tname);|
@apii{0,1,m}

If the registry already has the key @id{tname},
returns 0.
Otherwise,
creates a new table to be used as a metatable for userdata,
adds to this new table the pair @T{__name = tname},
adds to the registry the pair @T{[tname] = new table},
and returns 1.
(The entry @idx{__name} is used by some error-reporting functions.)

In both cases pushes onto the stack the final value associated
with @id{tname} in the registry.

}

@APIEntry{lua_State *luaL_newstate (void);|
@apii{0,0,-}

Creates a new Lua state.
It calls @Lid{lua_newstate} with an
allocator based on the @N{standard C} @id{realloc} function
and then sets a panic function
 @see{C-error} that prints
an error message to the standard error output in case of fatal
errors.

Returns the new state,
or @id{NULL} if there is a @x{memory allocation error}.

}

@APIEntry{void luaL_openlibs (lua_State *L);|
@apii{0,0,e}

Opens all standard Lua libraries into the given state.

}

@APIEntry{
T luaL_opt (L, func, arg, dflt);|
@apii{0,0,e}

This macro is defined as follows:
@verbatim{
(lua_isnoneornil(L,(arg)) ? (dflt) : func(L,(arg)))
}
In words, if the argument @id{arg} is nil or absent,
the macro results in the default @id{dflt}.
Otherwise, it results in the result of calling @id{func}
with the state @id{L} and the argument index @id{arg} as
arguments.
Note that it evaluates the expression @id{dflt} only if needed.

}

@APIEntry{
lua_Integer luaL_optinteger (lua_State *L,
                int arg,

```
                        lua_Integer d);|
@apii{0,0,v}

If the function argument @id{arg} is an integer
(or convertible to an integer),
returns this integer.
If
 this argument is absent or is @nil,
returns @id{d}.
Otherwise, raises an error.

}

@APIEntry{
const char *luaL_optlstring (lua_State *L,
                        int arg,
                        const char *d,
                        size_t *l);|
@apii{0,0,v}

If the function argument @id{arg} is a string,
returns this string.
If this argument is absent or is @nil,
returns @id{d}.
Otherwise, raises an error.

If @id{l} is not @id{NULL},
fills the position @T{*l} with the result's length.
If the result is @id{NULL}
(only possible when returning @id{d} and @T{d == NULL}),
its length is considered zero.

This function uses @Lid{lua_tolstring} to get its result,
so all conversions and caveats of that function apply here.

}

@APIEntry{lua_Number luaL_optnumber (lua_State *L, int arg, lua_Number d);|
@apii{0,0,v}

If the function argument @id{arg} is a number,
returns this number.
If this argument is absent or is @nil,
returns @id{d}.
Otherwise, raises an error.

}
```

```
@APIEntry{
const
 char *luaL_optstring (lua_State *L,
                       int arg,
                       const char *d);|
@apii{0,0,v}

If the function argument @id{arg} is a string,
returns this string.
If this argument is absent or is @nil,
returns @id{d}.
Otherwise, raises an error.

}

@APIEntry{char *luaL_prepbuffer (luaL_Buffer *B);|
@apii{?,?,m}

Equivalent to @Lid{luaL_prepbuffsize}
with the predefined size @defid{LUAL_BUFFERSIZE}.

}

@APIEntry{char *luaL_prepbuffsize (luaL_Buffer *B, size_t sz);|
@apii{?,?,m}

Returns an address to a space of size @id{sz}
where you can copy a string to be added to buffer @id{B}
@seeC{luaL_Buffer}.
After copying the string into this space you must call
@Lid{luaL_addsize} with the size of the string to actually add
it to the buffer.

}

@APIEntry{void luaL_pushresult (luaL_Buffer *B);|
@apii{?,1,m}

Finishes the use of buffer @id{B} leaving the final string on
the top of the stack.

}

@APIEntry{void luaL_pushresultsize (luaL_Buffer
 *B, size_t sz);|
@apii{?,1,m}

Equivalent to the sequence @Lid{luaL_addsize}, @Lid{luaL_pushresult}.
```

}

@APIEntry{int luaL_ref (lua_State *L, int t);|
@apii{1,0,m}

Creates and returns a @def{reference},
in the table at index @id{t},
for the object at the top of the stack (and pops the object).

A reference is a unique integer key.
As long as you do not manually add integer keys into table @id{t},
@Lid{luaL_ref} ensures the uniqueness of the key it returns.
You can retrieve an object referred by reference @id{r}
by calling @T{lua_rawgeti(L, t, r)}.
Function @Lid{luaL_unref} frees a reference and its associated object.

If the object at the top of the stack is @nil,
@Lid{luaL_ref} returns the constant @defid{LUA_REFNIL}.
The constant @defid{LUA_NOREF} is guaranteed to be different
from any reference returned by @Lid{luaL_ref}.

}

@APIEntry{
typedef struct luaL_Reg {
 const char *name;
 lua_CFunction func;
} luaL_Reg;
|

Type for arrays of functions to be registered by
@Lid{luaL_setfuncs}.
@id{name}
 is the function name and @id{func} is a pointer to
the function.
Any array of @Lid{luaL_Reg} must end with a sentinel entry
in which both @id{name} and @id{func} are @id{NULL}.

}

@APIEntry{
void luaL_requiref (lua_State *L, const char *modname,
                    lua_CFunction openf, int glb);|
@apii{0,1,e}

If @id{modname} is not already present in @Lid{package.loaded},
calls function @id{openf} with string @id{modname} as an argument

and sets the call result in @T{package.loaded[modname]},
as if that function has been called through @Lid{require}.

If @id{glb} is true,
also stores the module into global @id{modname}.

Leaves a copy of the module on the stack.

}

@APIEntry{void luaL_setfuncs (lua_State *L, const luaL_Reg *l, int nup);|
@apii{nup,0,m}

Registers all functions in the array @id{l}
@seeC{luaL_Reg} into the table on the top of the stack
(below optional upvalues, see next).

When @id{nup} is not zero,
all functions are created sharing @id{nup} upvalues,
which
 must be previously pushed on the stack
on top of the library table.
These values are popped from the stack after the registration.

}

@APIEntry{void luaL_setmetatable (lua_State *L, const char *tname);|
@apii{0,0,-}

Sets the metatable of the object at the top of the stack
as the metatable associated with name @id{tname}
in the registry @seeC{luaL_newmetatable}.

}

@APIEntry{
typedef struct luaL_Stream {
 FILE *f;
 lua_CFunction closef;
} luaL_Stream;
|

The standard representation for @x{file handles},
which is used by the standard I/O library.

A file handle is implemented as a full userdata,
with a metatable called @id{LUA_FILEHANDLE}
(where @id{LUA_FILEHANDLE} is a macro with the actual metatable's name).

The metatable is created by the I/O library
@seeF{luaL_newmetatable}.

This userdata must start with the structure @id{luaL_Stream};
it can contain other data after this initial structure.
Field @id{f} points to the corresponding C stream
(or it can be @id{NULL} to
 indicate an incompletely created handle).
Field @id{closef} points to a Lua function
that will be called to close the stream
when the handle is closed or collected;
this function receives the file handle as its sole argument and
must return either @Rw{true} (in case of success)
or @nil plus an error message (in case of error).
Once Lua calls this field,
it changes the field value to @id{NULL}
to signal that the handle is closed.

}

@APIEntry{void *luaL_testudata (lua_State *L, int arg, const char *tname);|
@apii{0,0,m}

This function works like @Lid{luaL_checkudata},
except that, when the test fails,
it returns @id{NULL} instead of raising an error.

}

@APIEntry{const char *luaL_tolstring (lua_State *L, int idx, size_t *len);|
@apii{0,1,e}

Converts any Lua value at the given index to a @N{C string}
in a reasonable format.
The resulting string is pushed onto the stack and also
returned by the function.
If @id{len} is not @id{NULL},
the function also sets @T{*len} with the string length.

If
 the value has a metatable with a @idx{__tostring} field,
then @id{luaL_tolstring} calls the corresponding metamethod
with the value as argument,
and uses the result of the call as its result.

}

@APIEntry{

```
void luaL_traceback (lua_State *L, lua_State *L1, const char *msg,
                     int level);|
```
@apii{0,1,m}

Creates and pushes a traceback of the stack @id{L1}.
If @id{msg} is not @id{NULL} it is appended
at the beginning of the traceback.
The @id{level} parameter tells at which level
to start the traceback.

}

@APIEntry{const char *luaL_typename (lua_State *L, int index);|
@apii{0,0,-}

Returns the name of the type of the value at the given index.

}

@APIEntry{void luaL_unref (lua_State *L, int t, int ref);|
@apii{0,0,-}

Releases reference @id{ref} from the table at index @id{t}
@seeC{luaL_ref}.
The entry is removed from the table,
so that the referred object can be collected.
The reference @id{ref} is also freed to be used again.

If @id{ref} is @Lid{LUA_NOREF} or
 @Lid{LUA_REFNIL},
@Lid{luaL_unref} does nothing.

}

@APIEntry{void luaL_where (lua_State *L, int lvl);|
@apii{0,1,m}

Pushes onto the stack a string identifying the current position
of the control at level @id{lvl} in the call stack.
Typically this string has the following format:
@verbatim{
@rep{chunkname}:@rep{currentline}:
}
@N{Level 0} is the running function,
@N{level 1} is the function that called the running function,
etc.

This function is used to build a prefix for error messages.

```
}

}

}


@C{-----------------------------------------------------------------------}
@sect1{libraries| @title{Standard Libraries}

The standard Lua libraries provide useful functions
that are implemented directly through the @N{C API}.
Some of these functions provide essential services to the language
(e.g., @Lid{type} and @Lid{getmetatable});
others provide access to @Q{outside} services (e.g., I/O);
and others could be implemented in Lua itself,
but are quite useful or have critical performance
 requirements that
deserve an implementation in C (e.g., @Lid{table.sort}).

All libraries are implemented through the official @N{C API}
and are provided as separate @N{C modules}.
Currently, Lua has the following standard libraries:
@itemize{

@item{@link{predefined|basic library};}

@item{@link{corolib|coroutine library};}

@item{@link{packlib|package library};}

@item{@link{strlib|string manipulation};}

@item{@link{utf8|basic UTF-8 support};}

@item{@link{tablib|table manipulation};}

@item{@link{mathlib|mathematical functions} (sin, log, etc.);}

@item{@link{iolib|input and output};}

@item{@link{oslib|operating system facilities};}

@item{@link{debuglib|debug facilities}.}

}
Except for the basic and the package libraries,
```

each library provides all its functions as fields of a global table
or as methods of its objects.

To have access to these libraries,
the @N{C host} program should call the @Lid{luaL_openlibs} function,
which opens all standard libraries.
Alternatively,
the
 host program can open them individually by using
@Lid{luaL_requiref} to call
@defid{luaopen_base} (for the basic library),
@defid{luaopen_package} (for the package library),
@defid{luaopen_coroutine} (for the coroutine library),
@defid{luaopen_string} (for the string library),
@defid{luaopen_utf8} (for the UTF8 library),
@defid{luaopen_table} (for the table library),
@defid{luaopen_math} (for the mathematical library),
@defid{luaopen_io} (for the I/O library),
@defid{luaopen_os} (for the operating system library),
and @defid{luaopen_debug} (for the debug library).
These functions are declared in @defid{lualib.h}.

@sect2{predefined| @title{Basic Functions}

The basic library provides core functions to Lua.
If you do not include this library in your application,
you should check carefully whether you need to provide
implementations for some of its facilities.

@LibEntry{assert (v [, message])|

Calls @Lid{error} if
the value of its argument @id{v} is false (i.e., @nil or @false);
otherwise,
 returns all its arguments.
In case of error,
@id{message} is the error object;
when absent, it defaults to @St{assertion failed!}

}

@LibEntry{collectgarbage ([opt [, arg]])|

This function is a generic interface to the garbage collector.
It performs different functions according to its first argument, @id{opt}:
@description{

@item{@St{collect}|
performs a full garbage-collection cycle.
This is the default option.
}

@item{@St{stop}|
stops automatic execution of the garbage collector.
The collector will run only when explicitly invoked,
until a call to restart it.
}

@item{@St{restart}|
restarts automatic execution of the garbage collector.
}

@item{@St{count}|
returns the total memory in use by Lua in Kbytes.
The value has a fractional part,
so that it multiplied by 1024
gives the exact number of bytes in use by Lua
(except for overflows).
}

@item{@St{step}|
performs a garbage-collection step.
The step @Q{size} is controlled by @id{arg}.
With a zero value,
the collector will
 perform one basic (indivisible) step.
For non-zero values,
the collector will perform as if that amount of memory
(in KBytes) had been allocated by Lua.
Returns @Rw{true} if the step finished a collection cycle.
}

@item{@St{setpause}|
sets @id{arg} as the new value for the @emph{pause} of
the collector @see{GC}.
Returns the previous value for @emph{pause}.
}

@item{@St{setstepmul}|
sets @id{arg} as the new value for the @emph{step multiplier} of
the collector @see{GC}.
Returns the previous value for @emph{step}.
}

@item{@St{isrunning}|

returns a boolean that tells whether the collector is running
(i.e., not stopped).
}

}

}

@LibEntry{dofile ([filename])|
Opens the named file and executes its contents as a Lua chunk.
When called without arguments,
@id{dofile} executes the contents of the standard input (@id{stdin}).
Returns all values returned by the chunk.
In case of errors, @id{dofile} propagates the error
to its caller (that is, @id{dofile} does not run in protected mode).

}

@LibEntry{error
 (message [, level])|
Terminates the last protected function called
and returns @id{message} as the error object.
Function @id{error} never returns.

Usually, @id{error} adds some information about the error position
at the beginning of the message, if the message is a string.
The @id{level} argument specifies how to get the error position.
With @N{level 1} (the default), the error position is where the
@id{error} function was called.
@N{Level 2} points the error to where the function
that called @id{error} was called; and so on.
Passing a @N{level 0} avoids the addition of error position information
to the message.

}

@LibEntry{_G|
A global variable (not a function) that
holds the @x{global environment} @see{globalenv}.
Lua itself does not use this variable;
changing its value does not affect any environment,
nor vice versa.

}

@LibEntry{getmetatable (object)|

If @id{object} does not have a metatable, returns @nil.

Otherwise,
if the object's metatable has a @idx{__metatable}
 field,
returns the associated value.
Otherwise, returns the metatable of the given object.

}

@LibEntry{ipairs (t)|

Returns three values (an iterator function, the table @id{t}, and 0)
so that the construction
@verbatim{
for i,v in ipairs(t) do @rep{body} end
}
will iterate over the key@En{}value pairs
(@T{1,t[1]}), (@T{2,t[2]}), @ldots,
up to the first nil value.

}

@LibEntry{load (chunk [, chunkname [, mode [, env]]])|

Loads a chunk.

If @id{chunk} is a string, the chunk is this string.
If @id{chunk} is a function,
@id{load} calls it repeatedly to get the chunk pieces.
Each call to @id{chunk} must return a string that concatenates
with previous results.
A return of an empty string, @nil, or no value signals the end of the chunk.

If there are no syntactic errors,
returns the compiled chunk as a function;
otherwise, returns @nil plus the error message.

If the resulting function has upvalues,
the first upvalue is set to the value of @id{env},
if that parameter is given,
or
 to the value of the @x{global environment}.
Other upvalues are initialized with @nil.
(When you load a main chunk,
the resulting function will always have exactly one upvalue,
the @id{_ENV} variable @see{globalenv}.
However,
when you load a binary chunk created from a function @seeF{string.dump},
the resulting function can have an arbitrary number of upvalues.)

All upvalues are fresh, that is,
they are not shared with any other function.

@id{chunkname} is used as the name of the chunk for error messages
and debug information @see{debugI}.
When absent,
it defaults to @id{chunk}, if @id{chunk} is a string,
or to @St{=(load)} otherwise.

The string @id{mode} controls whether the chunk can be text or binary
(that is, a precompiled chunk).
It may be the string @St{b} (only @x{binary chunk}s),
@St{t} (only text chunks),
or @St{bt} (both binary and text).
The default is @St{bt}.

Lua does not check the consistency of binary chunks.
Maliciously crafted binary chunks can crash
the interpreter.

}

@LibEntry{loadfile
([filename [, mode [, env]]])|

Similar to @Lid{load},
but gets the chunk from file @id{filename}
or from the standard input,
if no file name is given.

}

@LibEntry{next (table [, index])|

Allows a program to traverse all fields of a table.
Its first argument is a table and its second argument
is an index in this table.
@id{next} returns the next index of the table
and its associated value.
When called with @nil as its second argument,
@id{next} returns an initial index
and its associated value.
When called with the last index,
or with @nil in an empty table,
@id{next} returns @nil.
If the second argument is absent, then it is interpreted as @nil.
In particular,
you can use @T{next(t)} to check whether a table is empty.

The order in which the indices are enumerated is not specified,
@emph{even for numeric indices}.
(To traverse a table in numerical order,
use a numerical @Rw{for}.)

The behavior of @id{next} is undefined if,
during the traversal,
you assign
 any value to a non-existent field in the table.
You may however modify existing fields.
In particular, you may clear existing fields.

}

@LibEntry{pairs (t)|

If @id{t} has a metamethod @idx{__pairs},
calls it with @id{t} as argument and returns the first three
results from the call.

Otherwise,
returns three values: the @Lid{next} function, the table @id{t}, and @nil,
so that the construction
@verbatim{
for k,v in pairs(t) do @rep{body} end
}
will iterate over all key@En{}value pairs of table @id{t}.

See function @Lid{next} for the caveats of modifying
the table during its traversal.

}

@LibEntry{pcall (f [, arg1, @Cdots])|

Calls function @id{f} with
the given arguments in @def{protected mode}.
This means that any error @N{inside @T{f}} is not propagated;
instead, @id{pcall} catches the error
and returns a status code.
Its first result is the status code (a boolean),
which is true if the call succeeds without errors.
In such case, @id{pcall} also returns all results from the call,
after
 this first result.
In case of any error, @id{pcall} returns @false plus the error message.

}

@LibEntry{print (@Cdots)|
Receives any number of arguments
and prints their values to @id{stdout},
using the @Lid{tostring} function to convert each argument to a string.
@id{print} is not intended for formatted output,
but only as a quick way to show a value,
for instance for debugging.
For complete control over the output,
use @Lid{string.format} and @Lid{io.write}.

}

@LibEntry{rawequal (v1, v2)|
Checks whether @id{v1} is equal to @id{v2},
without invoking the @idx{__eq} metamethod.
Returns a boolean.

}

@LibEntry{rawget (table, index)|
Gets the real value of @T{table[index]},
without invoking the @idx{__index} metamethod.
@id{table} must be a table;
@id{index} may be any value.

}

@LibEntry{rawlen (v)|
Returns the length of the object @id{v},
which must be a table or a string,
without invoking the @idx{__len} metamethod.
Returns an integer.

}

@LibEntry{rawset (table, index, value)|
Sets
 the real value of @T{table[index]} to @id{value},
without invoking the @idx{__newindex} metamethod.
@id{table} must be a table,
@id{index} any value different from @nil and @x{NaN},
and @id{value} any Lua value.

This function returns @id{table}.

}

@LibEntry{select (index, @Cdots)|

If @id{index} is a number,
returns all arguments after argument number @id{index};
a negative number indexes from the end (@num{-1} is the last argument).
Otherwise, @id{index} must be the string @T{"#"},
and @id{select} returns the total number of extra arguments it received.

}

@LibEntry{setmetatable (table, metatable)|

Sets the metatable for the given table.
(To change the metatable of other types from Lua code,
you must use the @link{debuglib|debug library}.)
If @id{metatable} is @nil,
removes the metatable of the given table.
If the original metatable has a @idx{__metatable} field,
raises an error.

This function returns @id{table}.

}

@LibEntry{tonumber (e [, base])|

When called with
 no @id{base},
@id{tonumber} tries to convert its argument to a number.
If the argument is already a number or
a string convertible to a number,
then @id{tonumber} returns this number;
otherwise, it returns @nil.

The conversion of strings can result in integers or floats,
according to the lexical conventions of Lua @see{lexical}.
(The string may have leading and trailing spaces and a sign.)

When called with @id{base},
then @id{e} must be a string to be interpreted as
an integer numeral in that base.
The base may be any integer between 2 and 36, inclusive.
In bases @N{above 10}, the letter @Char{A} (in either upper or lower case)
@N{represents 10}, @Char{B} @N{represents 11}, and so forth,
with @Char{Z} representing 35.
If the string @id{e} is not a valid numeral in the given base,
the function returns @nil.

}

@LibEntry{tostring (v)|
Receives a value of any type and
converts it to a string in a human-readable format.
(For complete control of how numbers are converted,
use @Lid{string.format}.)

If
 the metatable of @id{v} has a @idx{__tostring} field,
then @id{tostring} calls the corresponding value
with @id{v} as argument,
and uses the result of the call as its result.

}

@LibEntry{type (v)|
Returns the type of its only argument, coded as a string.
The possible results of this function are
@St{nil} (a string, not the value @nil),
@St{number},
@St{string},
@St{boolean},
@St{table},
@St{function},
@St{thread},
and @St{userdata}.

}

@LibEntry{_VERSION|

A global variable (not a function) that
holds a string containing the running Lua version.
The current value of this variable is @St{Lua 5.3}.

}

@LibEntry{xpcall (f, msgh [, arg1, @Cdots])|

This function is similar to @Lid{pcall},
except that it sets a new @x{message handler} @id{msgh}.

}

}

@sect2{corolib| @title{Coroutine Manipulation}

This library comprises the operations to manipulate coroutines,
which come inside the table @defid{coroutine}.
See @See{coroutine} for a general description of coroutines.

@LibEntry{coroutine.create
(f)|

Creates a new coroutine, with body @id{f}.
@id{f} must be a function.
Returns this new coroutine,
an object with type @T{"thread"}.

}

@LibEntry{coroutine.isyieldable ()|

Returns true when the running coroutine can yield.

A running coroutine is yieldable if it is not the main thread and
it is not inside a non-yieldable @N{C function}.

}

@LibEntry{coroutine.resume (co [, val1, @Cdots])|

Starts or continues the execution of coroutine @id{co}.
The first time you resume a coroutine,
it starts running its body.
The values @id{val1}, @ldots are passed
as the arguments to the body function.
If the coroutine has yielded,
@id{resume} restarts it;
the values @id{val1}, @ldots are passed
as the results from the yield.

If the coroutine runs without any errors,
@id{resume} returns @true plus any values passed to @id{yield}
(when the coroutine yields) or any values returned by the body function
(when the coroutine terminates).
If there is any error,
@id{resume}
returns @false plus the error message.

}

@LibEntry{coroutine.running ()|

Returns the running coroutine plus a boolean,
true when the running coroutine is the main one.

}

@LibEntry{coroutine.status (co)|

Returns the status of coroutine @id{co}, as a string:
@T{"running"},
if the coroutine is running (that is, it called @id{status});
@T{"suspended"}, if the coroutine is suspended in a call to @id{yield},
or if it has not started running yet;
@T{"normal"} if the coroutine is active but not running
(that is, it has resumed another coroutine);
and @T{"dead"} if the coroutine has finished its body function,
or if it has stopped with an error.

}

@LibEntry{coroutine.wrap (f)|

Creates a new coroutine, with body @id{f}.
@id{f} must be a function.
Returns a function that resumes the coroutine each time it is called.
Any arguments passed to the function behave as the
extra arguments to @id{resume}.
Returns the same values returned by @id{resume},
except the first boolean.
In case of error,
 propagates the error.

}

@LibEntry{coroutine.yield (@Cdots)|

Suspends the execution of the calling coroutine.
Any arguments to @id{yield} are passed as extra results to @id{resume}.

}

}

@sect2{packlib| @title{Modules}

The package library provides basic
facilities for loading modules in Lua.

It exports one function directly in the global environment:
@Lid{require}.
Everything else is exported in a table @defid{package}.

@LibEntry{require (modname)|

Loads the given module.
The function starts by looking into the @Lid{package.loaded} table
to determine whether @id{modname} is already loaded.
If it is, then @id{require} returns the value stored
at @T{package.loaded[modname]}.
Otherwise, it tries to find a @emph{loader} for the module.

To find a loader,
@id{require} is guided by the @Lid{package.searchers} sequence.
By changing this sequence,
we can change how @id{require} looks for a module.
The following explanation is based on the default configuration
for @Lid{package.searchers}.

First
@id{require} queries @T{package.preload[modname]}.
If it has a value,
this value (which must be a function) is the loader.
Otherwise @id{require} searches for a Lua loader using the
path stored in @Lid{package.path}.
If that also fails, it searches for a @N{C loader} using the
path stored in @Lid{package.cpath}.
If that also fails,
it tries an @emph{all-in-one} loader @seeF{package.searchers}.

Once a loader is found,
@id{require} calls the loader with two arguments:
@id{modname} and an extra value dependent on how it got the loader.
(If the loader came from a file,
this extra value is the file name.)
If the loader returns any non-nil value,
@id{require} assigns the returned value to @T{package.loaded[modname]}.
If the loader does not return a non-nil value and
has not assigned any value to @T{package.loaded[modname]},
then @id{require} assigns @Rw{true} to this entry.
In any case, @id{require} returns the
final value of @T{package.loaded[modname]}.

If there is any error
loading or running the module,
or if it cannot find any loader for the module,

then @id{require} raises an error.

}

@LibEntry{package.config|

A string describing some compile-time configurations for packages.
This string is a sequence of lines:
@itemize{

@item{The first line is the @x{directory separator} string.
Default is @Char{\} for @x{Windows} and @Char{/} for all other systems.}

@item{The second line is the character that separates templates in a path.
Default is @Char{;}.}

@item{The third line is the string that marks the
substitution points in a template.
Default is @Char{?}.}

@item{The fourth line is a string that, in a path in @x{Windows},
is replaced by the executable's directory.
Default is @Char{!}.}

@item{The fifth line is a mark to ignore all text after it
when building the @id{luaopen_} function name.
Default is @Char{-}.}

}

}

@LibEntry{package.cpath|

The path used by @Lid{require} to search for a @N{C loader}.

Lua initializes the @N{C path} @Lid{package.cpath}
 in the same way
it initializes the Lua path @Lid{package.path},
using the environment variable @defid{LUA_CPATH_5_3},
or the environment variable @defid{LUA_CPATH},
or a default path defined in @id{luaconf.h}.

}

@LibEntry{package.loaded|

A table used by @Lid{require} to control which

modules are already loaded.
When you require a module @id{modname} and
@T{package.loaded[modname]} is not false,
@Lid{require} simply returns the value stored there.

This variable is only a reference to the real table;
assignments to this variable do not change the
table used by @Lid{require}.

}

@LibEntry{package.loadlib (libname, funcname)|

Dynamically links the host program with the @N{C library} @id{libname}.

If @id{funcname} is @St{*},
then it only links with the library,
making the symbols exported by the library
available to other dynamically linked libraries.
Otherwise,
it looks for a function @id{funcname} inside the library
and returns this function as a @N{C function}.
So, @id{funcname}
 must follow the @Lid{lua_CFunction} prototype
@seeC{lua_CFunction}.

This is a low-level function.
It completely bypasses the package and module system.
Unlike @Lid{require},
it does not perform any path searching and
does not automatically adds extensions.
@id{libname} must be the complete file name of the @N{C library},
including if necessary a path and an extension.
@id{funcname} must be the exact name exported by the @N{C library}
(which may depend on the @N{C compiler} and linker used).

This function is not supported by @N{Standard C}.
As such, it is only available on some platforms
(Windows, Linux, Mac OS X, Solaris, BSD,
plus other Unix systems that support the @id{dlfcn} standard).

}

@LibEntry{package.path|

The path used by @Lid{require} to search for a Lua loader.

At start-up, Lua initializes this variable with

the value of the environment variable @defid{LUA_PATH_5_3} or
the environment variable @defid{LUA_PATH} or
with a default path defined in @id{luaconf.h},
if those
 environment variables are not defined.
Any @St{;;} in the value of the environment variable
is replaced by the default path.

}

@LibEntry{package.preload|

A table to store loaders for specific modules
@seeF{require}.

This variable is only a reference to the real table;
assignments to this variable do not change the
table used by @Lid{require}.

}

@LibEntry{package.searchers|

A table used by @Lid{require} to control how to load modules.

Each entry in this table is a @def{searcher function}.
When looking for a module,
@Lid{require} calls each of these searchers in ascending order,
with the module name (the argument given to @Lid{require}) as its
sole parameter.
The function can return another function (the module @def{loader})
plus an extra value that will be passed to that loader,
or a string explaining why it did not find that module
(or @nil if it has nothing to say).

Lua initializes this table with four searcher functions.

The first searcher simply looks for a loader in
 the
@Lid{package.preload} table.

The second searcher looks for a loader as a Lua library,
using the path stored at @Lid{package.path}.
The search is done as described in function @Lid{package.searchpath}.

The third searcher looks for a loader as a @N{C library},
using the path given by the variable @Lid{package.cpath}.
Again,

the search is done as described in function @Lid{package.searchpath}.
For instance,
if the @N{C path} is the string
@verbatim{
"./?.so;./?.dll;/usr/local/?/init.so"
}
the searcher for module @id{foo}
will try to open the files @T{./foo.so}, @T{./foo.dll},
and @T{/usr/local/foo/init.so}, in that order.
Once it finds a @N{C library},
this searcher first uses a dynamic link facility to link the
application with the library.
Then it tries to find a @N{C function} inside the library to
be used as the loader.
The name of this @N{C function} is the string @St{luaopen_}
concatenated with a copy of the module name where each dot
is replaced by an underscore.
Moreover, if
 the module name has a hyphen,
its suffix after (and including) the first hyphen is removed.
For instance, if the module name is @id{a.b.c-v2.1},
the function name will be @id{luaopen_a_b_c}.

The fourth searcher tries an @def{all-in-one loader}.
It searches the @N{C path} for a library for
the root name of the given module.
For instance, when requiring @id{a.b.c},
it will search for a @N{C library} for @id{a}.
If found, it looks into it for an open function for
the submodule;
in our example, that would be @id{luaopen_a_b_c}.
With this facility, a package can pack several @N{C submodules}
into one single library,
with each submodule keeping its original open function.

All searchers except the first one (preload) return as the extra value
the file name where the module was found,
as returned by @Lid{package.searchpath}.
The first searcher returns no extra value.

}

@LibEntry{package.searchpath (name, path [, sep [, rep]])|

Searches for the given @id{name} in the given @id{path}.

A path

is a string containing a sequence of
@emph{templates} separated by semicolons.
For each template,
the function replaces each interrogation mark (if any)
in the template with a copy of @id{name}
wherein all occurrences of @id{sep}
(a dot, by default)
were replaced by @id{rep}
(the system's directory separator, by default),
and then tries to open the resulting file name.

For instance, if the path is the string
@verbatim{
"./?.lua;./?.lc;/usr/local/?/init.lua"
}
the search for the name @id{foo.a}
will try to open the files
@T{./foo/a.lua}, @T{./foo/a.lc}, and
@T{/usr/local/foo/a/init.lua}, in that order.

Returns the resulting name of the first file that it can
open in read mode (after closing the file),
or @nil plus an error message if none succeeds.
(This error message lists all file names it tried to open.)

}

}

@sect2{strlib| @title{String Manipulation}

This library provides generic functions for string manipulation,
such as finding and extracting substrings, and pattern matching.
When
indexing a string in Lua, the first character is at @N{position 1}
(not @N{at 0}, as in C).
Indices are allowed to be negative and are interpreted as indexing backwards,
from the end of the string.
Thus, the last character is at position @num{-1}, and so on.

The string library provides all its functions inside the table
@defid{string}.
It also sets a @x{metatable for strings}
where the @idx{__index} field points to the @id{string} table.
Therefore, you can use the string functions in object-oriented style.
For instance, @T{string.byte(s,i)}
can be written as @T{s:byte(i)}.

The string library assumes one-byte character encodings.

@LibEntry{string.byte (s [, i [, j]])|
Returns the internal numeric codes of the characters @T{s[i]},
@T{s[i+1]}, @ldots, @T{s[j]}.
The default value for @id{i} @N{is 1};
the default value for @id{j} @N{is @id{i}}.
These indices are corrected
following the same rules of function @Lid{string.sub}.

Numeric codes are not necessarily portable across
platforms.

}

@LibEntry{string.char (@Cdots)|
Receives zero or more integers.
Returns a string with length equal to the number of arguments,
in which each character has the internal numeric code equal
to its corresponding argument.

Numeric codes are not necessarily portable across platforms.

}

@LibEntry{string.dump (function [, strip])|

Returns a string containing a binary representation
(a @emph{binary chunk})
of the given function,
so that a later @Lid{load} on this string returns
a copy of the function (but with new upvalues).
If @id{strip} is a true value,
the binary representation may not include all debug information
about the function,
to save space.

Functions with upvalues have only their number of upvalues saved.
When (re)loaded,
those upvalues receive fresh instances containing @nil.
(You can use the debug library to serialize
and reload the upvalues of a function
in a way adequate to your needs.)

}

@LibEntry{string.find (s, pattern [, init [, plain]])|

Looks for the
first match of
@id{pattern} @see{pm} in the string @id{s}.
If it finds a match, then @id{find} returns the indices @N{of @T{s}}
where this occurrence starts and ends;
otherwise, it returns @nil.
A third, optional numeric argument @id{init} specifies
where to start the search;
its default value @N{is 1} and can be negative.
A value of @true as a fourth, optional argument @id{plain}
turns off the pattern matching facilities,
so the function does a plain @Q{find substring} operation,
with no characters in @id{pattern} being considered magic.
Note that if @id{plain} is given, then @id{init} must be given as well.

If the pattern has captures,
then in a successful match
the captured values are also returned,
after the two indices.

}

@LibEntry{string.format (formatstring, @Cdots)|

Returns a formatted version of its variable number of arguments
following the description given in its first argument (which must be a string).
The format string follows the same rules as the @ANSI{sprintf}.
The
only differences are that the options/modifiers
@T{*}, @id{h}, @id{L}, @id{l}, @id{n},
and @id{p} are not supported
and that there is an extra option, @id{q}.

The @id{q} option formats a string between double quotes,
using escape sequences when necessary to ensure that
it can safely be read back by the Lua interpreter.
For instance, the call
@verbatim{
string.format('%q', 'a string with "quotes" and \n new line')
}
may produce the string:
@verbatim{
"a string with \"quotes\" and \
new line"
}

Options

@id{A}, @id{a}, @id{E}, @id{e}, @id{f},
@id{G}, and @id{g} all expect a number as argument.
Options @id{c}, @id{d},
@id{i}, @id{o}, @id{u}, @id{X}, and @id{x}
expect an integer.
When Lua is compiled with a C89 compiler,
options @id{A} and @id{a} (hexadecimal floats)
do not support any modifier (flags, width, length).

Option @id{s} expects a string;
if its argument is not a string,
it is converted to one following the same rules of @Lid{tostring}.
If the option has any modifier (flags,
 width, length),
the string argument should not contain @x{embedded zeros}.

}

@LibEntry{string.gmatch (s, pattern)|
Returns an iterator function that,
each time it is called,
returns the next captures from @id{pattern} @see{pm}
over the string @id{s}.
If @id{pattern} specifies no captures,
then the whole match is produced in each call.

As an example, the following loop
will iterate over all the words from string @id{s},
printing one per line:
@verbatim{
s = "hello world from Lua"
for w in string.gmatch(s, "%a+") do
 print(w)
end
}
The next example collects all pairs @T{key=value} from the
given string into a table:
@verbatim{
t = {}
s = "from=world, to=Lua"
for k, v in string.gmatch(s, "(%w+)=(%w+)") do
 t[k] = v
end
}

For this function, a caret @Char{^} at the start of a pattern does not
work as an anchor, as this would prevent the iteration.

}

@LibEntry{string.gsub (s, pattern, repl [, n])|
Returns a copy of @id{s}
in which all (or the first @id{n}, if given)
occurrences of
 the @id{pattern} @see{pm} have been
replaced by a replacement string specified by @id{repl},
which can be a string, a table, or a function.
@id{gsub} also returns, as its second value,
the total number of matches that occurred.
The name @id{gsub} comes from @emph{Global SUBstitution}.

If @id{repl} is a string, then its value is used for replacement.
The @N{character @T{%}} works as an escape character:
any sequence in @id{repl} of the form @T{%@rep{d}},
with @rep{d} between 1 and 9,
stands for the value of the @rep{d}-th captured substring.
The sequence @T{%0} stands for the whole match.
The sequence @T{%%} stands for a @N{single @T{%}}.

If @id{repl} is a table, then the table is queried for every match,
using the first capture as the key.

If @id{repl} is a function, then this function is called every time a
match occurs, with all captured substrings passed as arguments,
in order.

In any case,
if the pattern specifies no captures,
then it behaves as if the whole pattern was inside
 a capture.

If the value returned by the table query or by the function call
is a string or a number,
then it is used as the replacement string;
otherwise, if it is @Rw{false} or @nil,
then there is no replacement
(that is, the original match is kept in the string).

Here are some examples:
@verbatim{
x = string.gsub("hello world", "(%w+)", "%1 %1")
--> x="hello hello world world"

x = string.gsub("hello world", "%w+", "%0 %0", 1)
--> x="hello hello world"

```
x = string.gsub("hello world from Lua", "(%w+)%s*(%w+)", "%2 %1")
--> x="world hello Lua from"

x = string.gsub("home = $HOME, user = $USER", "%$(%w+)", os.getenv)
--> x="home = /home/roberto, user = roberto"

x = string.gsub("4+5 = $return 4+5$", "%$(.-)%$", function (s)
     return load(s)()
   end)
--> x="4+5 = 9"

local t = {name="lua", version="5.3"}
x = string.gsub("$name-$version.tar.gz", "%$(%w+)", t)
--> x="lua-5.3.tar.gz"
}

}

@LibEntry{string.len (s)|
Receives a string and returns its length.
The empty string @T{""} has
 length 0.
Embedded zeros are counted,
so @T{"a\000bc\000"} has length 5.

}

@LibEntry{string.lower (s)|
Receives a string and returns a copy of this string with all
uppercase letters changed to lowercase.
All other characters are left unchanged.
The definition of what an uppercase letter is depends on the current locale.

}

@LibEntry{string.match (s, pattern [, init])|
Looks for the first @emph{match} of
@id{pattern} @see{pm} in the string @id{s}.
If it finds one, then @id{match} returns
the captures from the pattern;
otherwise it returns @nil.
If @id{pattern} specifies no captures,
then the whole match is returned.
A third, optional numeric argument @id{init} specifies
where to start the search;
its default value @N{is 1} and can be negative.

}
```

@LibEntry{string.pack (fmt, v1, v2, @Cdots)|

Returns a binary string containing the values @id{v1}, @id{v2}, etc.
packed (that is, serialized in binary form)
according to the format string @id{fmt} @see{pack}.

}

@LibEntry{string.packsize
(fmt)|

Returns the size of a string resulting from @Lid{string.pack}
with the given format.
The format string cannot have the variable-length options
@Char{s} or @Char{z} @see{pack}.

}

@LibEntry{string.rep (s, n [, sep])|
Returns a string that is the concatenation of @id{n} copies of
the string @id{s} separated by the string @id{sep}.
The default value for @id{sep} is the empty string
(that is, no separator).
Returns the empty string if @id{n} is not positive.

(Note that it is very easy to exhaust the memory of your machine
with a single call to this function.)

}

@LibEntry{string.reverse (s)|
Returns a string that is the string @id{s} reversed.

}

@LibEntry{string.sub (s, i [, j])|
Returns the substring of @id{s} that
starts at @id{i} and continues until @id{j};
@id{i} and @id{j} can be negative.
If @id{j} is absent, then it is assumed to be equal to @num{-1}
(which is the same as the string length).
In particular,
the call @T{string.sub(s,1,j)} returns a prefix of @id{s}
with
length @id{j},
and @T{string.sub(s, -i)} (for a positive @id{i})
returns a suffix of @id{s}

with length @id{i}.

If, after the translation of negative indices,
@id{i} is less than 1,
it is corrected to 1.
If @id{j} is greater than the string length,
it is corrected to that length.
If, after these corrections,
@id{i} is greater than @id{j},
the function returns the empty string.

}

@LibEntry{string.unpack (fmt, s [, pos])|

Returns the values packed in string @id{s} @seeF{string.pack}
according to the format string @id{fmt} @see{pack}.
An optional @id{pos} marks where
to start reading in @id{s} (default is 1).
After the read values,
this function also returns the index of the first unread byte in @id{s}.

}

@LibEntry{string.upper (s)|
Receives a string and returns a copy of this string with all
lowercase letters changed to uppercase.
All other characters are left unchanged.
The definition of what a lowercase letter is depends on the current locale.

}

@sect3{pm| @title{Patterns}

Patterns
 in Lua are described by regular strings,
which are interpreted as patterns by the pattern-matching functions
@Lid{string.find},
@Lid{string.gmatch},
@Lid{string.gsub},
and @Lid{string.match}.
This section describes the syntax and the meaning
(that is, what they match) of these strings.

@sect4{@title{Character Class:}
A @def{character class} is used to represent a set of characters.
The following combinations are allowed in describing a character class:

@description{

@item{@rep{x}|
(where @rep{x} is not one of the @emphx{magic characters}
@T{^$()%.[]*+-?})
represents the character @emph{x} itself.
}

@item{@T{.}| (a dot) represents all characters.}

@item{@T{%a}| represents all letters.}

@item{@T{%c}| represents all control characters.}

@item{@T{%d}| represents all digits.}

@item{@T{%g}| represents all printable characters except space.}

@item{@T{%l}| represents all lowercase letters.}

@item{@T{%p}| represents all punctuation characters.}

@item{@T{%s}| represents all space
characters.}

@item{@T{%u}| represents all uppercase letters.}

@item{@T{%w}| represents all alphanumeric characters.}

@item{@T{%x}| represents all hexadecimal digits.}

@item{@T{%@rep{x}}| (where @rep{x} is any non-alphanumeric character)
represents the character @rep{x}.
This is the standard way to escape the magic characters.
Any non-alphanumeric character
(including all punctuation characters, even the non-magical)
can be preceded by a @Char{%}
when used to represent itself in a pattern.
}

@item{@T{[@rep{set}]}|
represents the class which is the union of all
characters in @rep{set}.
A range of characters can be specified by
separating the end characters of the range,
in ascending order, with a @Char{-}.
All classes @T{%}@emph{x} described above can also be used as
components in @rep{set}.

All other characters in @rep{set} represent themselves.
For example, @T{[%w_]} (or @T{[_%w]})
represents all alphanumeric characters plus the underscore,
@T{[0-7]} represents the octal digits,
and
@T{[0-7%l%-]} represents the octal digits plus
the lowercase letters plus the @Char{-} character.

You can put a closing square bracket in a set
by positioning it as the first character in the set.
You can put a hyphen in a set
by positioning it as the first or the last character in the set.
(You can also use an escape for both cases.)

The interaction between ranges and classes is not defined.
Therefore, patterns like @T{[%a-z]} or @T{[a-%%]}
have no meaning.
}

@item{@T{[^@rep{set}]}|
represents the complement of @rep{set},
where @rep{set} is interpreted as above.
}

}
For all classes represented by single letters (@T{%a}, @T{%c}, etc.),
the corresponding uppercase letter represents the complement of the class.
For instance, @T{%S} represents all non-space characters.

The definitions of letter, space, and other character groups
depend on the current locale.
In particular, the class @T{[a-z]} may not be equivalent to @T{%l}.

}

@sect4{@title{Pattern Item:}
A @def{pattern item}
can be
@itemize{

@item{
a single character class,
which matches any single character in the class;
}

@item{
a single character class followed by @Char{*},
which matches zero or more repetitions of characters in the class.

These repetition items will always match the longest possible sequence;
}

@item{
a single character class followed by @Char{+},
which matches one or more repetitions of characters in the class.
These repetition items will always match the longest possible sequence;
}

@item{
a single character class followed by @Char{-},
which also matches zero or more repetitions of characters in the class.
Unlike @Char{*},
these repetition items will always match the shortest possible sequence;
}

@item{
a single character class followed by @Char{?},
which matches zero or one occurrence of a character in the class.
It always matches one occurrence if possible;
}

@item{
@T{%@rep{n}}, for @rep{n} between 1 and 9;
such item matches a substring equal to the @rep{n}-th captured string
(see
 below);
}

@item{
@T{%b@rep{xy}}, where @rep{x} and @rep{y} are two distinct characters;
such item matches strings that start @N{with @rep{x}}, end @N{with @rep{y}},
and where the @rep{x} and @rep{y} are @emph{balanced}.
This means that, if one reads the string from left to right,
counting @M{+1} for an @rep{x} and @M{-1} for a @rep{y},
the ending @rep{y} is the first @rep{y} where the count reaches 0.
For instance, the item @T{%b()} matches expressions with
balanced parentheses.
}

@item{
@T{%f[@rep{set}]}, a @def{frontier pattern};
such item matches an empty string at any position such that
the next character belongs to @rep{set}
and the previous character does not belong to @rep{set}.
The set @rep{set} is interpreted as previously described.
The beginning and the end of the subject are handled as if
they were the character @Char{\0}.

}

}

}

@sect4{@title{Pattern:}
A @def{pattern} is a sequence of pattern items.
A caret @Char{^} at the beginning of a pattern anchors the match
 at the
beginning of the subject string.
A @Char{$} at the end of a pattern anchors the match at the
end of the subject string.
At other positions,
@Char{^} and @Char{$} have no special meaning and represent themselves.

}

@sect4{@title{Captures:}
A pattern can contain sub-patterns enclosed in parentheses;
they describe @def{captures}.
When a match succeeds, the substrings of the subject string
that match captures are stored (@emph{captured}) for future use.
Captures are numbered according to their left parentheses.
For instance, in the pattern @T{"(a*(.)%w(%s*))"},
the part of the string matching @T{"a*(.)%w(%s*)"} is
stored as the first capture (and therefore has @N{number 1});
the character matching @St{.} is captured with @N{number 2},
and the part matching @St{%s*} has @N{number 3}.

As a special case, the empty capture @T{()} captures
the current string position (a number).
For instance, if we apply the pattern @T{"()aa()"} on the
string @T{"flaaap"}, there will be two captures:
 @N{3 and 5}.

}

}

@sect3{pack| @title{Format Strings for Pack and Unpack}

The first argument to @Lid{string.pack},
@Lid{string.packsize}, and @Lid{string.unpack}
is a format string,
which describes the layout of the structure being created or read.

A format string is a sequence of conversion options.
The conversion options are as follows:
@description{
@item{@T{<}|sets little endian}
@item{@T{>}|sets big endian}
@item{@T{=}|sets native endian}
@item{@T{![@rep{n}]}|sets maximum alignment to @id{n}
(default is native alignment)}
@item{@T{b}|a signed byte (@id{char})}
@item{@T{B}|an unsigned byte (@id{char})}
@item{@T{h}|a signed @id{short} (native size)}
@item{@T{H}|an unsigned @id{short} (native size)}
@item{@T{l}|a signed @id{long} (native size)}
@item{@T{L}|an unsigned @id{long} (native size)}
@item{@T{j}|a @id{lua_Integer}}
@item{@T{J}|a @id{lua_Unsigned}}
@item{@T{T}|a @id{size_t} (native size)}
@item{@T{i[@rep{n}]}|a signed @id{int} with @id{n} bytes
(default is native size)}
@item{@T{I[@rep{n}]}|an
 unsigned @id{int} with @id{n} bytes
(default is native size)}
@item{@T{f}|a @id{float} (native size)}
@item{@T{d}|a @id{double} (native size)}
@item{@T{n}|a @id{lua_Number}}
@item{@T{c@rep{n}}|a fixed-sized string with @id{n} bytes}
@item{@T{z}|a zero-terminated string}
@item{@T{s[@emph{n}]}|a string preceded by its length
coded as an unsigned integer with @id{n} bytes
(default is a @id{size_t})}
@item{@T{x}|one byte of padding}
@item{@T{X@rep{op}}|an empty item that aligns
according to option @id{op}
(which is otherwise ignored)}
@item{@Char{ }|(empty space) ignored}
}
(A @St{[@rep{n}]} means an optional integral numeral.)
Except for padding, spaces, and configurations
(options @St{xX <=>!}),
each option corresponds to an argument (in @Lid{string.pack})
or a result (in @Lid{string.unpack}).

For options @St{!@rep{n}}, @St{s@rep{n}}, @St{i@rep{n}}, and @St{I@rep{n}},
@id{n} can be any integer between 1 and 16.
All integral options check overflows;
@Lid{string.pack}
 checks whether the given value fits in the given size;
@Lid{string.unpack} checks whether the read value fits in a Lua integer.

Any format string starts as if prefixed by @St{!1=},
that is,
with maximum alignment of 1 (no alignment)
and native endianness.

Alignment works as follows:
For each option,
the format gets extra padding until the data starts
at an offset that is a multiple of the minimum between the
option size and the maximum alignment;
this minimum must be a power of 2.
Options @St{c} and @St{z} are not aligned;
option @St{s} follows the alignment of its starting integer.

All padding is filled with zeros by @Lid{string.pack}
(and ignored by @Lid{string.unpack}).

}

}

@sect2{utf8| @title{UTF-8 Support}

This library provides basic support for @x{UTF-8} encoding.
It provides all its functions inside the table @defid{utf8}.
This library does not provide any support for @x{Unicode} other
than the handling of the encoding.
Any operation that needs the meaning of a character,
such
as character classification, is outside its scope.

Unless stated otherwise,
all functions that expect a byte position as a parameter
assume that the given position is either the start of a byte sequence
or one plus the length of the subject string.
As in the string library,
negative indices count from the end of the string.

@LibEntry{utf8.char (@Cdots)|
Receives zero or more integers,
converts each one to its corresponding UTF-8 byte sequence
and returns a string with the concatenation of all these sequences.

}

@LibEntry{utf8.charpattern|

The pattern (a string, not a function) @St{[\0-\x7F\xC2-\xF4][\x80-\xBF]*}
@see{pm},
which matches exactly one UTF-8 byte sequence,
assuming that the subject is a valid UTF-8 string.

}

@LibEntry{utf8.codes (s)|

Returns values so that the construction
@verbatim{
for p, c in utf8.codes(s) do @rep{body} end
}
will iterate over all characters in string @id{s},
with @id{p} being the position (in bytes) and @id{c} the code point
of each
character.
It raises an error if it meets any invalid byte sequence.

}

@LibEntry{utf8.codepoint (s [, i [, j]])|
Returns the codepoints (as integers) from all characters in @id{s}
that start between byte position @id{i} and @id{j} (both included).
The default for @id{i} is 1 and for @id{j} is @id{i}.
It raises an error if it meets any invalid byte sequence.

}

@LibEntry{utf8.len (s [, i [, j]])|
Returns the number of UTF-8 characters in string @id{s}
that start between positions @id{i} and @id{j} (both inclusive).
The default for @id{i} is @num{1} and for @id{j} is @num{-1}.
If it finds any invalid byte sequence,
returns a false value plus the position of the first invalid byte.

}

@LibEntry{utf8.offset (s, n [, i])|
Returns the position (in bytes) where the encoding of the
@id{n}-th character of @id{s}
(counting from position @id{i}) starts.
A negative @id{n} gets characters before position @id{i}.
The default for @id{i} is 1 when @id{n} is non-negative
and @T{#s + 1} otherwise,
so
that @T{utf8.offset(s, -n)} gets the offset of the
@id{n}-th character from the end of the string.

If the specified character is neither in the subject
nor right after its end,
the function returns @nil.

As a special case,
when @id{n} is 0 the function returns the start of the encoding
of the character that contains the @id{i}-th byte of @id{s}.

This function assumes that @id{s} is a valid UTF-8 string.

}

}

@sect2{tablib| @title{Table Manipulation}

This library provides generic functions for table manipulation.
It provides all its functions inside the table @defid{table}.

Remember that, whenever an operation needs the length of a table,
all caveats about the length operator apply @see{len-op}.
All functions ignore non-numeric keys
in the tables given as arguments.

@LibEntry{table.concat (list [, sep [, i [, j]]])|

Given a list where all elements are strings or numbers,
returns the string @T{list[i]..sep..list[i+1] @Cdots sep..list[j]}.
The default value for @id{sep} is the
 empty string,
the default for @id{i} is 1,
and the default for @id{j} is @T{#list}.
If @id{i} is greater than @id{j}, returns the empty string.

}

@LibEntry{table.insert (list, [pos,] value)|

Inserts element @id{value} at position @id{pos} in @id{list},
shifting up the elements
@T{list[pos], list[pos+1], @Cdots, list[#list]}.
The default value for @id{pos} is @T{#list+1},
so that a call @T{table.insert(t,x)} inserts @id{x} at the end
of list @id{t}.

}

@LibEntry{table.move (a1, f, e, t [,a2])|

Moves elements from table @id{a1} to table @id{a2},
performing the equivalent to the following
multiple assignment:
@T{a2[t],@Cdots = a1[f],@Cdots,a1[e]}.
The default for @id{a2} is @id{a1}.
The destination range can overlap with the source range.
The number of elements to be moved must fit in a Lua integer.

Returns the destination table @id{a2}.

}

@LibEntry{table.pack (@Cdots)|

Returns a new table with all arguments stored into keys 1, 2, etc.
and with a field @St{n} with the total number
 of arguments.
Note that the resulting table may not be a sequence.

}

@LibEntry{table.remove (list [, pos])|

Removes from @id{list} the element at position @id{pos},
returning the value of the removed element.
When @id{pos} is an integer between 1 and @T{#list},
it shifts down the elements
@T{list[pos+1], list[pos+2], @Cdots, list[#list]}
and erases element @T{list[#list]};
The index @id{pos} can also be 0 when @T{#list} is 0,
or @T{#list + 1};
in those cases, the function erases the element @T{list[pos]}.

The default value for @id{pos} is @T{#list},
so that a call @T{table.remove(l)} removes the last element
of list @id{l}.

}

@LibEntry{table.sort (list [, comp])|

Sorts list elements in a given order, @emph{in-place},
from @T{list[1]} to @T{list[#list]}.
If @id{comp} is given,
then it must be a function that receives two list elements
and returns true when the first element must come

before the second in the final order
(so that, after the sort,
@T{i < j} implies @T{not comp(list[j],list[i])}).
If
 @id{comp} is not given,
then the standard Lua operator @T{<} is used instead.

Note that the @id{comp} function must define
a strict partial order over the elements in the list;
that is, it must be asymmetric and transitive.
Otherwise, no valid sort may be possible.

The sort algorithm is not stable:
elements considered equal by the given order
may have their relative positions changed by the sort.

}

@LibEntry{table.unpack (list [, i [, j]])|

Returns the elements from the given list.
This function is equivalent to
@verbatim{
return list[i], list[i+1], @Cdots, list[j]
}
By default, @id{i} @N{is 1} and @id{j} is @T{#list}.

}

}

@sect2{mathlib| @title{Mathematical Functions}

This library provides basic mathematical functions.
It provides all its functions and constants inside the table @defid{math}.
Functions with the annotation @St{integer/float} give
integer results for integer arguments
and float results for float (or mixed) arguments.
Rounding functions
(@Lid{math.ceil},
 @Lid{math.floor}, and @Lid{math.modf})
return an integer when the result fits in the range of an integer,
or a float otherwise.

@LibEntry{math.abs (x)|

Returns the absolute value of @id{x}. (integer/float)

}

@LibEntry{math.acos (x)|

Returns the arc cosine of @id{x} (in radians).

}

@LibEntry{math.asin (x)|

Returns the arc sine of @id{x} (in radians).

}

@LibEntry{math.atan (y [, x])|

@index{atan2}
Returns the arc tangent of @T{y/x} (in radians),
but uses the signs of both arguments to find the
quadrant of the result.
(It also handles correctly the case of @id{x} being zero.)

The default value for @id{x} is 1,
so that the call @T{math.atan(y)}
returns the arc tangent of @id{y}.

}

@LibEntry{math.ceil (x)|

Returns the smallest integral value larger than or equal to @id{x}.

}

@LibEntry{math.cos (x)|

Returns the cosine of @id{x} (assumed to be in radians).

}

@LibEntry{math.deg (x)|

Converts the angle @id{x} from radians to degrees.

}

@LibEntry{math.exp

(x)|

Returns the value @M{e@sp{x}}
(where @id{e} is the base of natural logarithms).

}

@LibEntry{math.floor (x)|

Returns the largest integral value smaller than or equal to @id{x}.

}

@LibEntry{math.fmod (x, y)|

Returns the remainder of the division of @id{x} by @id{y}
that rounds the quotient towards zero. (integer/float)

}

@LibEntry{math.huge|

The float value @idx{HUGE_VAL},
a value larger than any other numeric value.

}

@LibEntry{math.log (x [, base])|

Returns the logarithm of @id{x} in the given base.
The default for @id{base} is @M{e}
(so that the function returns the natural logarithm of @id{x}).

}

@LibEntry{math.max (x, @Cdots)|

Returns the argument with the maximum value,
according to the Lua operator @T{<}. (integer/float)

}

@LibEntry{math.maxinteger|
An integer with the maximum value for an integer.

}

@LibEntry{math.min (x, @Cdots)|

Returns the argument with the minimum value,
according to the Lua operator @T{<}. (integer/float)

}

@LibEntry{math.mininteger|
An
 integer with the minimum value for an integer.

}

@LibEntry{math.modf (x)|

Returns the integral part of @id{x} and the fractional part of @id{x}.
Its second result is always a float.

}

@LibEntry{math.pi|

The value of @M{@pi}.

}

@LibEntry{math.rad (x)|

Converts the angle @id{x} from degrees to radians.

}

@LibEntry{math.random ([m [, n]])|

When called without arguments,
returns a pseudo-random float with uniform distribution
in the range @C{(} @M{[0,1)}. @C{]}
When called with two integers @id{m} and @id{n},
@id{math.random} returns a pseudo-random integer
with uniform distribution in the range @M{[m, n]}.
(The value @M{n-m} cannot be negative and must fit in a Lua integer.)
The call @T{math.random(n)} is equivalent to @T{math.random(1,n)}.

This function is an interface to the underling
pseudo-random generator function provided by C.

}

@LibEntry{math.randomseed (x)|

Sets @id{x} as the @Q{seed}
for the pseudo-random generator:
equal seeds produce equal sequences of
 numbers.

}

@LibEntry{math.sin (x)|

Returns the sine of @id{x} (assumed to be in radians).

}

@LibEntry{math.sqrt (x)|

Returns the square root of @id{x}.
(You can also use the expression @T{x^0.5} to compute this value.)

}

@LibEntry{math.tan (x)|

Returns the tangent of @id{x} (assumed to be in radians).

}

@LibEntry{math.tointeger (x)|

If the value @id{x} is convertible to an integer,
returns that integer.
Otherwise, returns @nil.

}

@LibEntry{math.type (x)|

Returns @St{integer} if @id{x} is an integer,
@St{float} if it is a float,
or @nil if @id{x} is not a number.

}

@LibEntry{math.ult (m, n)|

Returns a boolean,
true if and only if integer @id{m} is below integer @id{n} when
they are compared as @x{unsigned integers}.

}

}

@sect2{iolib| @title{Input and Output Facilities}

The I/O library provides two different styles for file manipulation.
The first one uses implicit file handles;
that is, there are operations to set a default input file and a
default output file,
and
 all input/output operations are over these default files.
The second style uses explicit file handles.

When using implicit file handles,
all operations are supplied by table @defid{io}.
When using explicit file handles,
the operation @Lid{io.open} returns a file handle
and then all operations are supplied as methods of the file handle.

The table @id{io} also provides
three predefined file handles with their usual meanings from C:
@defid{io.stdin}, @defid{io.stdout}, and @defid{io.stderr}.
The I/O library never closes these files.

Unless otherwise stated,
all I/O functions return @nil on failure
(plus an error message as a second result and
a system-dependent error code as a third result)
and some value different from @nil on success.
In non-POSIX systems,
the computation of the error message and error code
in case of errors
may be not @x{thread safe},
because they rely on the global C variable @id{errno}.

@LibEntry{io.close ([file])|

Equivalent to @T{file:close()}.
Without a @id{file},
 closes the default output file.

}

@LibEntry{io.flush ()|

Equivalent to @T{io.output():flush()}.

}

@LibEntry{io.input ([file])|

When called with a file name, it opens the named file (in text mode),
and sets its handle as the default input file.
When called with a file handle,
it simply sets this file handle as the default input file.
When called without arguments,
it returns the current default input file.

In case of errors this function raises the error,
instead of returning an error code.

}

@LibEntry{io.lines ([filename, @Cdots])|

Opens the given file name in read mode
and returns an iterator function that
works like @T{file:lines(@Cdots)} over the opened file.
When the iterator function detects the end of file,
it returns no values (to finish the loop) and automatically closes the file.

The call @T{io.lines()} (with no file name) is equivalent
to @T{io.input():lines("*l")};
that is, it iterates over the lines of the default input file.
In this case, the iterator does
 not close the file when the loop ends.

In case of errors this function raises the error,
instead of returning an error code.

}

@LibEntry{io.open (filename [, mode])|

This function opens a file,
in the mode specified in the string @id{mode}.
In case of success,
it returns a new file handle.

The @id{mode} string can be any of the following:
@description{
@item{@St{r}| read mode (the default);}
@item{@St{w}| write mode;}

@item{@St{a}| append mode;}
@item{@St{r+}| update mode, all previous data is preserved;}
@item{@St{w+}| update mode, all previous data is erased;}
@item{@St{a+}| append update mode, previous data is preserved,
 writing is only allowed at the end of file.}
}
The @id{mode} string can also have a @Char{b} at the end,
which is needed in some systems to open the file in binary mode.

}

@LibEntry{io.output ([file])|

Similar to @Lid{io.input}, but operates over the default output file.

}

@LibEntry{io.popen (prog [, mode])|

This function is system dependent and is not
 available
on all platforms.

Starts program @id{prog} in a separated process and returns
a file handle that you can use to read data from this program
(if @id{mode} is @T{"r"}, the default)
or to write data to this program
(if @id{mode} is @T{"w"}).

}

@LibEntry{io.read (@Cdots)|

Equivalent to @T{io.input():read(@Cdots)}.

}

@LibEntry{io.tmpfile ()|

In case of success,
returns a handle for a temporary file.
This file is opened in update mode
and it is automatically removed when the program ends.

}

@LibEntry{io.type (obj)|

Checks whether @id{obj} is a valid file handle.
Returns the string @T{"file"} if @id{obj} is an open file handle,
@T{"closed file"} if @id{obj} is a closed file handle,
or @nil if @id{obj} is not a file handle.

}

@LibEntry{io.write (@Cdots)|

Equivalent to @T{io.output():write(@Cdots)}.

}

@LibEntry{file:close ()|

Closes @id{file}.
Note that files are automatically closed when
their handles are garbage collected,
but that takes an unpredictable amount of
time to happen.

When closing a file handle created with @Lid{io.popen},
@Lid{file:close} returns the same values
returned by @Lid{os.execute}.

}

@LibEntry{file:flush ()|

Saves any written data to @id{file}.

}

@LibEntry{file:lines (@Cdots)|

Returns an iterator function that,
each time it is called,
reads the file according to the given formats.
When no format is given,
uses @St{l} as a default.
As an example, the construction
@verbatim{
for c in file:lines(1) do @rep{body} end
}
will iterate over all characters of the file,
starting at the current position.
Unlike @Lid{io.lines}, this function does not close the file

when the loop ends.

In case of errors this function raises the error,
instead of returning an error code.

}

@LibEntry{file:read (@Cdots)|

Reads the file @id{file},
according to the given formats, which specify what to read.
For each format,
the function returns a string or a number with the characters read,
or @nil if it cannot read data with the specified format.
(In
 this latter case,
the function does not read subsequent formats.)
When called without formats,
it uses a default format that reads the next line
(see below).

The available formats are
@description{

@item{@St{n}|
reads a numeral and returns it as a float or an integer,
following the lexical conventions of Lua.
(The numeral may have leading spaces and a sign.)
This format always reads the longest input sequence that
is a valid prefix for a numeral;
if that prefix does not form a valid numeral
(e.g., an empty string, @St{0x}, or @St{3.4e-}),
it is discarded and the function returns @nil.
}

@item{@St{a}|
reads the whole file, starting at the current position.
On end of file, it returns the empty string.
}

@item{@St{l}|
reads the next line skipping the end of line,
returning @nil on end of file.
This is the default format.
}

@item{@St{L}|
reads the next line keeping the end-of-line character (if present),

returning @nil on end of file.
}

@item{@emph{number}|
reads a string with
 up to this number of bytes,
returning @nil on end of file.
If @id{number} is zero,
it reads nothing and returns an empty string,
or @nil on end of file.
}

}
The formats @St{l} and @St{L} should be used only for text files.

}

@LibEntry{file:seek ([whence [, offset]])|

Sets and gets the file position,
measured from the beginning of the file,
to the position given by @id{offset} plus a base
specified by the string @id{whence}, as follows:
@description{
@item{@St{set}| base is position 0 (beginning of the file);}
@item{@St{cur}| base is current position;}
@item{@St{end}| base is end of file;}
}
In case of success, @id{seek} returns the final file position,
measured in bytes from the beginning of the file.
If @id{seek} fails, it returns @nil,
plus a string describing the error.

The default value for @id{whence} is @T{"cur"},
and for @id{offset} is 0.
Therefore, the call @T{file:seek()} returns the current
file position, without changing it;
the call @T{file:seek("set")} sets the position
 to the
beginning of the file (and returns 0);
and the call @T{file:seek("end")} sets the position to the
end of the file, and returns its size.

}

@LibEntry{file:setvbuf (mode [, size])|

Sets the buffering mode for an output file.

There are three available modes:
@description{

@item{@St{no}|
no buffering; the result of any output operation appears immediately.
}

@item{@St{full}|
full buffering; output operation is performed only
when the buffer is full or when
you explicitly @T{flush} the file @seeF{io.flush}.
}

@item{@St{line}|
line buffering; output is buffered until a newline is output
or there is any input from some special files
(such as a terminal device).
}

}
For the last two cases, @id{size}
specifies the size of the buffer, in bytes.
The default is an appropriate size.

}

@LibEntry{file:write (@Cdots)|

Writes the value of each of its arguments to @id{file}.
The arguments must be strings or numbers.

In case of success, this function returns @id{file}.
Otherwise it
returns @nil plus a string describing the error.

}

}

@sect2{oslib| @title{Operating System Facilities}

This library is implemented through table @defid{os}.

@LibEntry{os.clock ()|

Returns an approximation of the amount in seconds of CPU time
used by the program.

}

@LibEntry{os.date ([format [, time]])|

Returns a string or a table containing date and time,
formatted according to the given string @id{format}.

If the @id{time} argument is present,
this is the time to be formatted
(see the @Lid{os.time} function for a description of this value).
Otherwise, @id{date} formats the current time.

If @id{format} starts with @Char{!},
then the date is formatted in Coordinated Universal Time.
After this optional character,
if @id{format} is the string @St{*t},
then @id{date} returns a table with the following fields:
@id{year}, @id{month} (1@En{}12), @id{day} (1@En{}31),
@id{hour} (0@En{}23), @id{min} (0@En{}59), @id{sec} (0@En{}61),
@id{wday} (weekday, 1@En{}7, Sunday @N{is 1}),
@id{yday}
 (day of the year, 1@En{}366),
and @id{isdst} (daylight saving flag, a boolean).
This last field may be absent
if the information is not available.

If @id{format} is not @St{*t},
then @id{date} returns the date as a string,
formatted according to the same rules as the @ANSI{strftime}.

When called without arguments,
@id{date} returns a reasonable date and time representation that depends on
the host system and on the current locale.
(More specifically, @T{os.date()} is equivalent to @T{os.date("%c")}.)

In non-POSIX systems,
this function may be not @x{thread safe}
because of its reliance on @CId{gmtime} and @CId{localtime}.

}

@LibEntry{os.difftime (t2, t1)|

Returns the difference, in seconds,
from time @id{t1} to time @id{t2}
(where the times are values returned by @Lid{os.time}).
In @x{POSIX}, @x{Windows}, and some other systems,

this value is exactly @id{t2}@M{-}@id{t1}.

}

@LibEntry{os.execute ([command])|

This function is equivalent to the @ANSI{system}.
It passes @id{command}
 to be executed by an operating system shell.
Its first result is @true
if the command terminated successfully,
or @nil otherwise.
After this first result
the function returns a string plus a number,
as follows:
@description{

@item{@St{exit}|
the command terminated normally;
the following number is the exit status of the command.
}

@item{@St{signal}|
the command was terminated by a signal;
the following number is the signal that terminated the command.
}

}

When called without a @id{command},
@id{os.execute} returns a boolean that is true if a shell is available.

}

@LibEntry{os.exit ([code [, close]])|

Calls the @ANSI{exit} to terminate the host program.
If @id{code} is @Rw{true},
the returned status is @idx{EXIT_SUCCESS};
if @id{code} is @Rw{false},
the returned status is @idx{EXIT_FAILURE};
if @id{code} is a number,
the returned status is this number.
The default value for @id{code} is @Rw{true}.

If the optional second argument @id{close} is true,
closes the Lua state before

exiting.

}

@LibEntry{os.getenv (varname)|

Returns the value of the process environment variable @id{varname},
or @nil if the variable is not defined.

}

@LibEntry{os.remove (filename)|

Deletes the file (or empty directory, on @x{POSIX} systems)
with the given name.
If this function fails, it returns @nil,
plus a string describing the error and the error code.
Otherwise, it returns true.

}

@LibEntry{os.rename (oldname, newname)|

Renames the file or directory named @id{oldname} to @id{newname}.
If this function fails, it returns @nil,
plus a string describing the error and the error code.
Otherwise, it returns true.

}

@LibEntry{os.setlocale (locale [, category])|

Sets the current locale of the program.
@id{locale} is a system-dependent string specifying a locale;
@id{category} is an optional string describing which category to change:
@T{"all"}, @T{"collate"}, @T{"ctype"},
@T{"monetary"}, @T{"numeric"}, or @T{"time"};
the default category is @T{"all"}.
The function returns
the name of the new locale,
or @nil if the request cannot be honored.

If @id{locale} is the empty string,
the current locale is set to an implementation-defined native locale.
If @id{locale} is the string @St{C},
the current locale is set to the standard C locale.

When called with @nil as the first argument,

this function only returns the name of the current locale
for the given category.

This function may be not @x{thread safe}
because of its reliance on @CId{setlocale}.

}

@LibEntry{os.time ([table])|

Returns the current time when called without arguments,
or a time representing the local date and time specified by the given table.
This table must have fields @id{year}, @id{month}, and @id{day},
and may have fields
@id{hour} (default is 12),
@id{min} (default is 0),
@id{sec} (default is 0),
and @id{isdst} (default is @nil).
Other fields are ignored.
For a description of these fields, see the @Lid{os.date} function.

The values in these fields do not need to be inside their valid
ranges.
For instance, if @id{sec} is -10,
it means -10 seconds from the time specified by the other fields;
if @id{hour} is 1000,
it means +1000 hours from the time specified by the other fields.

The returned value is a number, whose meaning depends on your system.
In @x{POSIX}, @x{Windows}, and some other systems,
this number counts the number
of seconds since some given start time (the @Q{epoch}).
In other systems, the meaning is not specified,
and the number returned by @id{time} can be used only as an argument to
@Lid{os.date} and @Lid{os.difftime}.

}

@LibEntry{os.tmpname ()|

Returns a string with a file name that can
be used for a temporary file.
The file must be explicitly opened before its use
and explicitly removed when no longer needed.

In @x{POSIX} systems,
this function also creates a file with that name,
to avoid security risks.

(Someone else might create the file with wrong permissions
in the time between getting the name and creating the file.)
You still have to
 open the file to use it
and to remove it (even if you do not use it).

When possible,
you may prefer to use @Lid{io.tmpfile},
which automatically removes the file when the program ends.

}

}

@sect2{debuglib| @title{The Debug Library}

This library provides
the functionality of the @link{debugI|debug interface} to Lua programs.
You should exert care when using this library.
Several of its functions
violate basic assumptions about Lua code
(e.g., that variables local to a function
cannot be accessed from outside;
that userdata metatables cannot be changed by Lua code;
that Lua programs do not crash)
and therefore can compromise otherwise secure code.
Moreover, some functions in this library may be slow.

All functions in this library are provided
inside the @defid{debug} table.
All functions that operate over a thread
have an optional first argument which is the
thread to operate over.
The default is always the current thread.

@LibEntry{debug.debug ()|

Enters an interactive mode with
 the user,
running each string that the user enters.
Using simple commands and other debug facilities,
the user can inspect global and local variables,
change their values, evaluate expressions, and so on.
A line containing only the word @id{cont} finishes this function,
so that the caller continues its execution.

Note that commands for @id{debug.debug} are not lexically nested

within any function and so have no direct access to local variables.

}

@LibEntry{debug.gethook ([thread])|

Returns the current hook settings of the thread, as three values:
the current hook function, the current hook mask,
and the current hook count
(as set by the @Lid{debug.sethook} function).

}

@LibEntry{debug.getinfo ([thread,] f [, what])|

Returns a table with information about a function.
You can give the function directly
or you can give a number as the value of @id{f},
which means the function running at level @id{f} of the call stack
of the given thread:
@N{level 0} is the current function (@id{getinfo}
itself);
@N{level 1} is the function that called @id{getinfo}
(except for tail calls, which do not count on the stack);
and so on.
If @id{f} is a number larger than the number of active functions,
then @id{getinfo} returns @nil.

The returned table can contain all the fields returned by @Lid{lua_getinfo},
with the string @id{what} describing which fields to fill in.
The default for @id{what} is to get all information available,
except the table of valid lines.
If present,
the option @Char{f}
adds a field named @id{func} with the function itself.
If present,
the option @Char{L}
adds a field named @id{activelines} with the table of
valid lines.

For instance, the expression @T{debug.getinfo(1,"n").name} returns
a name for the current function,
if a reasonable name can be found,
and the expression @T{debug.getinfo(print)}
returns a table with all available information
about the @Lid{print} function.

}

@LibEntry{debug.getlocal ([thread,] f, local)|

This function returns the name
 and the value of the local variable
with index @id{local} of the function at level @id{f} of the stack.
This function accesses not only explicit local variables,
but also parameters, temporaries, etc.

The first parameter or local variable has @N{index 1}, and so on,
following the order that they are declared in the code,
counting only the variables that are active
in the current scope of the function.
Negative indices refer to vararg arguments;
@num{-1} is the first vararg argument.
The function returns @nil if there is no variable with the given index,
and raises an error when called with a level out of range.
(You can call @Lid{debug.getinfo} to check whether the level is valid.)

Variable names starting with @Char{(} (open parenthesis) @C{)}
represent variables with no known names
(internal variables such as loop control variables,
and variables from chunks saved without debug information).

The parameter @id{f} may also be a function.
In that case, @id{getlocal} returns only the
 name of function parameters.

}

@LibEntry{debug.getmetatable (value)|

Returns the metatable of the given @id{value}
or @nil if it does not have a metatable.

}

@LibEntry{debug.getregistry ()|

Returns the registry table @see{registry}.

}

@LibEntry{debug.getupvalue (f, up)|

This function returns the name and the value of the upvalue
with index @id{up} of the function @id{f}.
The function returns @nil if there is no upvalue with the given index.

Variable names starting with @Char{(} (open parenthesis) @C{)}
represent variables with no known names
(variables from chunks saved without debug information).

}

@LibEntry{debug.getuservalue (u)|

Returns the Lua value associated to @id{u}.
If @id{u} is not a full userdata,
returns @nil.

}

@LibEntry{debug.sethook ([thread,] hook, mask [, count])|

Sets the given function as a hook.
The string @id{mask} and the number @id{count} describe
when the hook will be called.
The string mask may have any combination of the following characters,
with
 the given meaning:
@description{
@item{@Char{c}| the hook is called every time Lua calls a function;}
@item{@Char{r}| the hook is called every time Lua returns from a function;}
@item{@Char{l}| the hook is called every time Lua enters a new line of code.}
}
Moreover,
with a @id{count} different from zero,
the hook is called also after every @id{count} instructions.

When called without arguments,
@Lid{debug.sethook} turns off the hook.

When the hook is called, its first argument is a string
describing the event that has triggered its call:
@T{"call"} (or @T{"tail call"}),
@T{"return"},
@T{"line"}, and @T{"count"}.
For line events,
the hook also gets the new line number as its second parameter.
Inside a hook,
you can call @id{getinfo} with @N{level 2} to get more information about
the running function
(@N{level 0} is the @id{getinfo} function,
and @N{level 1} is the hook function).

}

@LibEntry{debug.setlocal ([thread,] level, local, value)|

This function assigns the value @id{value}
 to the local variable
with index @id{local} of the function at level @id{level} of the stack.
The function returns @nil if there is no local
variable with the given index,
and raises an error when called with a @id{level} out of range.
(You can call @id{getinfo} to check whether the level is valid.)
Otherwise, it returns the name of the local variable.

See @Lid{debug.getlocal} for more information about
variable indices and names.

}

@LibEntry{debug.setmetatable (value, table)|

Sets the metatable for the given @id{value} to the given @id{table}
(which can be @nil).
Returns @id{value}.

}

@LibEntry{debug.setupvalue (f, up, value)|

This function assigns the value @id{value} to the upvalue
with index @id{up} of the function @id{f}.
The function returns @nil if there is no upvalue
with the given index.
Otherwise, it returns the name of the upvalue.

}

@LibEntry{debug.setuservalue (udata, value)|

Sets the given @id{value} as
the Lua value associated to the given @id{udata}.
@id{udata}
 must be a full userdata.

Returns @id{udata}.

}

@LibEntry{debug.traceback ([thread,] [message [, level]])|

If @id{message} is present but is neither a string nor @nil,
this function returns @id{message} without further processing.
Otherwise,
it returns a string with a traceback of the call stack.
The optional @id{message} string is appended
at the beginning of the traceback.
An optional @id{level} number tells at which level
to start the traceback
(default is 1, the function calling @id{traceback}).

}

@LibEntry{debug.upvalueid (f, n)|

Returns a unique identifier (as a light userdata)
for the upvalue numbered @id{n}
from the given function.

These unique identifiers allow a program to check whether different
closures share upvalues.
Lua closures that share an upvalue
(that is, that access a same external local variable)
will return identical ids for those upvalue indices.

}

@LibEntry{debug.upvaluejoin (f1, n1, f2, n2)|

Make the @id{n1}-th upvalue of the Lua closure @id{f1}
refer
 to the @id{n2}-th upvalue of the Lua closure @id{f2}.

}

}

}

@C{----------}
@sect1{lua-sa| @title{Lua Standalone}

Although Lua has been designed as an extension language,
to be embedded in a host @N{C program},
it is also frequently used as a standalone language.
An interpreter for Lua as a standalone language,
called simply @id{lua},

is provided with the standard distribution.
The @x{standalone interpreter} includes
all standard libraries, including the debug library.
Its usage is:
@verbatim{
lua [options] [script [args]]
}
The options are:
@description{
@item{@T{-e @rep{stat}}| executes string @rep{stat};}
@item{@T{-l @rep{mod}}| @Q{requires} @rep{mod} and assigns the
 result to global @@rep{mod};}
@item{@T{-i}| enters interactive mode after running @rep{script};}
@item{@T{-v}| prints version information;}
@item{@T{-E}| ignores environment variables;}
@item{@T{--}| stops handling options;}
@item{@T{-}| executes
 @id{stdin} as a file and stops handling options.}
}
After handling its options, @id{lua} runs the given @emph{script}.
When called without arguments,
@id{lua} behaves as @T{lua -v -i}
when the standard input (@id{stdin}) is a terminal,
and as @T{lua -} otherwise.

When called without option @T{-E},
the interpreter checks for an environment variable @defid{LUA_INIT_5_3}
(or @defid{LUA_INIT} if the versioned name is not defined)
before running any argument.
If the variable content has the format @T{@At@rep{filename}},
then @id{lua} executes the file.
Otherwise, @id{lua} executes the string itself.

When called with option @T{-E},
besides ignoring @id{LUA_INIT},
Lua also ignores
the values of @id{LUA_PATH} and @id{LUA_CPATH},
setting the values of
@Lid{package.path} and @Lid{package.cpath}
with the default paths defined in @id{luaconf.h}.

All options are handled in order, except @T{-i} and @T{-E}.
For instance, an invocation like
@verbatim{
$ lua -e'a=1' -e 'print(a)' script.lua
}
will

first set @id{a} to 1, then print the value of @id{a},
and finally run the file @id{script.lua} with no arguments.
(Here @T{$} is the shell prompt. Your prompt may be different.)

Before running any code,
@id{lua} collects all command-line arguments
in a global table called @id{arg}.
The script name goes to index 0,
the first argument after the script name goes to index 1,
and so on.
Any arguments before the script name
(that is, the interpreter name plus its options)
go to negative indices.
For instance, in the call
@verbatim{
$ lua -la b.lua t1 t2
}
the table is like this:
@verbatim{
arg = { [-2] = "lua", [-1] = "-la",
    [0] = "b.lua",
    [1] = "t1", [2] = "t2" }
}
If there is no script in the call,
the interpreter name goes to index 0,
followed by the other arguments.
For instance, the call
@verbatim{
$ lua -e "print(arg[1])"
}
will print @St{-e}.
If there is a script,
the script is called with arguments
@T{arg[1]}, @Cdots, @T{arg[#arg]}.
(Like all chunks in Lua,
the
script is compiled as a vararg function.)

In interactive mode,
Lua repeatedly prompts and waits for a line.
After reading a line,
Lua first try to interpret the line as an expression.
If it succeeds, it prints its value.
Otherwise, it interprets the line as a statement.
If you write an incomplete statement,
the interpreter waits for its completion
by issuing a different prompt.

If the global variable @defid{_PROMPT} contains a string,
then its value is used as the prompt.
Similarly, if the global variable @defid{_PROMPT2} contains a string,
its value is used as the secondary prompt
(issued during incomplete statements).

In case of unprotected errors in the script,
the interpreter reports the error to the standard error stream.
If the error object is not a string but
has a metamethod @idx{__tostring},
the interpreter calls this metamethod to produce the final message.
Otherwise, the interpreter converts the error object to a string
and adds a stack traceback to it.

When finishing normally,
the
 interpreter closes its main Lua state
@seeF{lua_close}.
The script can avoid this step by
calling @Lid{os.exit} to terminate.

To allow the use of Lua as a
script interpreter in Unix systems,
the standalone interpreter skips
the first line of a chunk if it starts with @T{#}.
Therefore, Lua scripts can be made into executable programs
by using @T{chmod +x} and @N{the @T{#!}} form,
as in
@verbatim{
#!/usr/local/bin/lua
}
(Of course,
the location of the Lua interpreter may be different in your machine.
If @id{lua} is in your @id{PATH},
then
@verbatim{
#!/usr/bin/env lua
}
is a more portable solution.)

}

@sect1{incompat| @title{Incompatibilities with the Previous Version}

Here we list the incompatibilities that you may find when moving a program
from @N{Lua 5.2} to @N{Lua 5.3}.
You can avoid some incompatibilities by compiling Lua with

appropriate options (see file @id{luaconf.h}).
However,
all these compatibility options will be removed in the future.

Lua versions can always
change the C API in ways that
do not imply source-code changes in a program,
such as the numeric values for constants
or the implementation of functions as macros.
Therefore,
you should not assume that binaries are compatible between
different Lua versions.
Always recompile clients of the Lua API when
using a new version.

Similarly, Lua versions can always change the internal representation
of precompiled chunks;
precompiled chunks are not compatible between different Lua versions.

The standard paths in the official distribution may
change between versions.

@sect2{@title{Changes in the Language}
@itemize{

@item{
The main difference between @N{Lua 5.2} and @N{Lua 5.3} is the
introduction of an integer subtype for numbers.
Although this change should not affect @Q{normal} computations,
some computations
(mainly those that involve some kind of overflow)
can give different results.

You can fix these differences by forcing a number to be a float
(in @N{Lua 5.2} all numbers were float),
in
particular writing constants with an ending @T{.0}
or using @T{x = x + 0.0} to convert a variable.
(This recommendation is only for a quick fix
for an occasional incompatibility;
it is not a general guideline for good programming.
For good programming,
use floats where you need floats
and integers where you need integers.)
}

@item{
The conversion of a float to a string now adds a @T{.0} suffix

to the result if it looks like an integer.
(For instance, the float 2.0 will be printed as @T{2.0},
not as @T{2}.)
You should always use an explicit format
when you need a specific format for numbers.

(Formally this is not an incompatibility,
because Lua does not specify how numbers are formatted as strings,
but some programs assumed a specific format.)
}

@item{
The generational mode for the garbage collector was removed.
(It was an experimental feature in @N{Lua 5.2}.)
}

}

}

@sect2{@title{Changes in the Libraries}
@itemize{

@item{
The @id{bit32} library has been deprecated.
It is
 easy to require a compatible external library or,
better yet, to replace its functions with appropriate bitwise operations.
(Keep in mind that @id{bit32} operates on 32-bit integers,
while the bitwise operators in @N{Lua 5.3} operate on Lua integers,
which by default have @N{64 bits}.)
}

@item{
The Table library now respects metamethods
for setting and getting elements.
}

@item{
The @Lid{ipairs} iterator now respects metamethods and
its @idx{__ipairs} metamethod has been deprecated.
}

@item{
Option names in @Lid{io.read} do not have a starting @Char{*} anymore.
For compatibility, Lua will continue to accept (and ignore) this character.
}

```
@item{
The following functions were deprecated in the mathematical library:
@id{atan2}, @id{cosh}, @id{sinh}, @id{tanh}, @id{pow},
@id{frexp}, and @id{ldexp}.
You can replace @T{math.pow(x,y)} with @T{x^y};
you can replace @id{math.atan2} with @id{math.atan},
which now accepts one or two arguments;
you can replace @T{math.ldexp(x,exp)} with @T{x
 * 2.0^exp}.
For the other operations,
you can either use an external library or
implement them in Lua.
}

@item{
The searcher for C loaders used by @Lid{require}
changed the way it handles versioned names.
Now, the version should come after the module name
(as is usual in most other tools).
For compatibility, that searcher still tries the old format
if it cannot find an open function according to the new style.
(@N{Lua 5.2} already worked that way,
but it did not document the change.)
}

@item{
The call @T{collectgarbage("count")} now returns only one result.
(You can compute that second result from the fractional part
of the first result.)
}

}

}

@sect2{@title{Changes in the API}

@itemize{

@item{
Continuation functions now receive as arguments what they needed
to get through @id{lua_getctx},
so @id{lua_getctx} has been removed.
Adapt your code accordingly.
}

@item{
```

Function @Lid{lua_dump} has an extra parameter, @id{strip}.
Use 0 as the value of this parameter to get the old behavior.
}

@item{
Functions
 to inject/project unsigned integers
(@id{lua_pushunsigned}, @id{lua_tounsigned}, @id{lua_tounsignedx},
@id{luaL_checkunsigned}, @id{luaL_optunsigned})
were deprecated.
Use their signed equivalents with a type cast.
}

@item{
Macros to project non-default integer types
(@id{luaL_checkint}, @id{luaL_optint}, @id{luaL_checklong}, @id{luaL_optlong})
were deprecated.
Use their equivalent over @Lid{lua_Integer} with a type cast
(or, when possible, use @Lid{lua_Integer} in your code).
}

}

}

}

@C{[==========}

@sect1{BNF| @title{The Complete Syntax of Lua}

Here is the complete syntax of Lua in extended BNF.
As usual in extended BNF,
@bnfNter{{A}} means 0 or more @bnfNter{A}s,
and @bnfNter{[A]} means an optional @bnfNter{A}.
(For operator precedences, see @See{prec};
for a description of the terminals
@bnfNter{Name}, @bnfNter{Numeral},
and @bnfNter{LiteralString}, see @See{lexical}.)
@index{grammar}

@Produc{

@producname{chunk}@producbody{block}

@producname{block}@producbody{@bnfrep{stat}

```
 @bnfopt{retstat}}

@producname{stat}@producbody{
 @bnfter{;}
@OrNL varlist @bnfter{=} explist
@OrNL functioncall
@OrNL label
@OrNL   @Rw{break}
@OrNL   @Rw{goto} Name
@OrNL @Rw{do} block @Rw{end}
@OrNL @Rw{while} exp @Rw{do} block @Rw{end}
@OrNL @Rw{repeat} block @Rw{until} exp
@OrNL @Rw{if} exp @Rw{then} block
 @bnfrep{@Rw{elseif} exp @Rw{then} block}
 @bnfopt{@Rw{else} block} @Rw{end}
@OrNL @Rw{for} @bnfNter{Name} @bnfter{=} exp @bnfter{,} exp @bnfopt{@bnfter{,} exp}
 @Rw{do} block @Rw{end}
@OrNL   @Rw{for} namelist @Rw{in} explist @Rw{do} block @Rw{end}
@OrNL @Rw{function} funcname funcbody
@OrNL @Rw{local} @Rw{function} @bnfNter{Name} funcbody
@OrNL @Rw{local} namelist @bnfopt{@bnfter{=} explist}
}

@producname{retstat}@producbody{@Rw{return}
                        @bnfopt{explist} @bnfopt{@bnfter{;}}}

@producname{label}@producbody{@bnfter{::} Name @bnfter{::}}

@producname{funcname}@producbody{@bnfNter{Name}
 @bnfrep{@bnfter{.} @bnfNter{Name}}
                      @bnfopt{@bnfter{:} @bnfNter{Name}}}

@producname{varlist}@producbody{var @bnfrep{@bnfter{,} var}}

@producname{var}@producbody{
 @bnfNter{Name}
@Or prefixexp @bnfter{[} exp @bnfter{]}
@Or prefixexp @bnfter{.} @bnfNter{Name}
}

@producname{namelist}@producbody{@bnfNter{Name} @bnfrep{@bnfter{,} @bnfNter{Name}}}


@producname{explist}@producbody{exp @bnfrep{@bnfter{,} exp}}

@producname{exp}@producbody{
 @Rw{nil}
@Or @Rw{false}
```

```
@Or @Rw{true}
@Or @bnfNter{Numeral}
@Or @bnfNter{LiteralString}
@Or @bnfter{...}
@Or functiondef
@OrNL prefixexp
@Or tableconstructor
@Or exp binop exp
@Or unop exp
}

@producname{prefixexp}@producbody{var @Or functioncall @Or @bnfter{(} exp @bnfter{)}}

@producname{functioncall}@producbody{
 prefixexp args
@Or prefixexp @bnfter{:} @bnfNter{Name} args
}

@producname{args}@producbody{
 @bnfter{(} @bnfopt{explist} @bnfter{)}
@Or tableconstructor
@Or @bnfNter{LiteralString}
}

@producname{functiondef}@producbody{@Rw{function}
 funcbody}

@producname{funcbody}@producbody{@bnfter{(} @bnfopt{parlist} @bnfter{)} block @Rw{end}}

@producname{parlist}@producbody{namelist @bnfopt{@bnfter{,} @bnfter{...}}
 @Or @bnfter{...}}

@producname{tableconstructor}@producbody{@bnfter{@Open} @bnfopt{fieldlist} @bnfter{@Close}}

@producname{fieldlist}@producbody{field @bnfrep{fieldsep field} @bnfopt{fieldsep}}

@producname{field}@producbody{@bnfter{[} exp @bnfter{]} @bnfter{=} exp @Or @bnfNter{Name}
@bnfter{=} exp @Or exp}

@producname{fieldsep}@producbody{@bnfter{,} @Or @bnfter{;}}

@producname{binop}@producbody{
 @bnfter{+} @Or @bnfter{-} @Or @bnfter{*} @Or @bnfter{/} @Or @bnfter{//}
   @Or @bnfter{^} @Or @bnfter{%}
      @OrNL
 @bnfter{&} @Or @bnfter{~} @Or @bnfter{|} @Or @bnfter{>>} @Or @bnfter{<<}
   @Or @bnfter{..}
      @OrNL
```

```
 @bnfter{<} @Or @bnfter{<=} @Or @bnfter{>} @Or @bnfter{>=}
   @Or @bnfter{==} @Or @bnfter{~=}
      @OrNL
 @Rw{and} @Or @Rw{or}}

@producname{unop}@producbody{@bnfter{-}
 @Or @Rw{not} @Or @bnfter{#} @Or
 @bnfter{~}}

}

}

@C{]==================================================================}

}
@C{)]-----------------------------------------------------------------}
```

Found in path(s):
* /opt/cola/permits/1416429675_1718202873.411109/0/v5-3-6-zip/lua-5.3.6/manual/manual.of

1.946 pci-ids 0.0~2022.01.22-1

1.946.1 Available under license :

No license file was found, but licenses were detected in source scan.

This repository contains the history of the pci.ids file, which is
automatically generated from the PCI ID Database at http://pci-ids.ucw.cz/.

The contents of the database and the generated files can be distributed under
the terms of either the GNU General Public License (version 2 or later) or of
the 3-clause BSD License.

The database is a compilation of factual data, and as such the copyright
only covers the aggregation and formatting. The copyright is held by
Martin Mares and Albert Pool.

Found in path(s):
* /opt/cola/permits/1416430019_1665448593.5758924/0/pci-ids-0-0-2020-03-20-orig-tar-xz/pci.ids-0.0~2020.03.20/README
No license file was found, but licenses were detected in source scan.

```
#
# List of PCI ID's
#
# Version: 2020.03.20
# Date:    2020-03-20 03:15:02
```

```
#
# Maintained by Albert Pool, Martin Mares, and other volunteers from
# the PCI ID Project at https://pci-ids.ucw.cz/.
#
# New data are always welcome, especially if they are accurate. If you have
# anything to contribute, please follow the instructions at the web site.
#
# This file can be distributed under either the GNU General Public License
# (version 2 or higher) or the 3-clause BSD License.
#
# The database is a compilation of factual data, and as such the copyright
# only covers the aggregation and formatting. The copyright is held by
# Martin Mares and Albert Pool.
#

# Vendors, devices and subsystems. Please keep sorted.

# Syntax:
# vendor  vendor_name
# device  device_name    <-- single tab
#  subvendor subdevice  subsystem_name <-- two tabs

0001  SafeNet (wrong ID)
0010  Allied Telesis, Inc (Wrong ID)
# This is a relabelled RTL-8139
 8139
  AT-2500TX V3 Ethernet
0014  Loongson Technology LLC
 7a00  Hyper Transport Bridge Controller
 7a02  APB (Advanced Peripheral Bus) Controller
 7a03  Gigabit Ethernet Controller
 7a04  OTG USB Controller
 7a05  Vivante GPU (Graphics Processing Unit)
 7a06  DC (Display Controller)
 7a07  HDA (High Definition Audio) Controller
 7a08  SATA AHCI Controller
 7a09  PCI-to-PCI Bridge
 7a0b  SPI Controller
 7a0c  LPC Controller
 7a0f  DMA (Direct Memory Access) Controller
 7a14  EHCI USB Controller
 7a15  Vivante GPU (Graphics Processing Unit)
 7a19  PCI-to-PCI Bridge
 7a24  OHCI USB Controller
 7a29  PCI-to-PCI Bridge
001c  PEAK-System Technik GmbH
 0001  PCAN-PCI CAN-Bus controller
  001c 0004  2 Channel CAN Bus SJC1000
```

```
  001c 0005  2 Channel CAN Bus SJC1000 (Optically Isolated)
003d  Lockheed Martin-Marietta Corp
# Real TJN ID is e159, but they got it wrong several times --mj
0059  Tiger Jet Network Inc. (Wrong ID)
0070  Hauppauge computer works Inc.
 7801  WinTV HVR-1800 MCE
0071
  Nebula Electronics Ltd.
0095  Silicon Image, Inc. (Wrong ID)
 0680  Ultra ATA/133 IDE RAID CONTROLLER CARD
# Wrong ID used in subsystem ID of the TELES.S0/PCI 2.x ISDN adapter
00a7  Teles AG (Wrong ID)
0100  nCipher Security
0123  General Dynamics
0128  Dell (wrong ID)
# 018a is not LevelOne but there is a board misprogrammed
018a  LevelOne
 0106  FPC-0106TX misprogrammed [RTL81xx]
01de  Oxide Computer Company
# 021b is not Compaq but there is a board misprogrammed
021b  Compaq Computer Corporation
 8139  HNE-300 (RealTek RTL8139c) [iPaq Networking]
0270  Hauppauge computer works Inc. (Wrong ID)
0291  Davicom Semiconductor, Inc. (Wrong ID)
# SpeedStream is Efficient Networks, Inc, a Siemens Company
02ac  SpeedStream
 1012  1012 PCMCIA 10/100 Ethernet Card [RTL81xx]
02e0  XFX Pine Group Inc. (Wrong ID)
0303  Hewlett-Packard Company (Wrong ID)
0308  ZyXEL Communications Corporation (Wrong ID)
0315  SK-Electronics Co., Ltd.
0357  TTTech Computertechnik AG (Wrong ID)
 000a  TTP-Monitoring
 Card V2.0
0432  SCM Microsystems, Inc.
 0001  Pluto2 DVB-T Receiver for PCMCIA [EasyWatch MobilSet]
0497  Dell Inc. (wrong ID)
0675  Dynalink
 1700  IS64PH ISDN Adapter
 1702  IS64PH ISDN Adapter
 1703  ISDN Adapter (PCI Bus, DV, W)
 1704  ISDN Adapter (PCI Bus, D, C)
0721  Sapphire, Inc.
0777  Ubiquiti Networks, Inc.
0795  Wired Inc.
 6663  Butane II (MPEG2 encoder board)
 6666  MediaPress (MPEG2 encoder board)
07d1  D-Link System Inc
```

0824 T1042 [Freescale]
0925 VIA Technologies, Inc. (Wrong ID)
0a89 BREA Technologies Inc
0b0b Rhino Equipment Corp.
0105 R1T1
0205 R4FXO
0206 RCB4FXO 4-channel FXO analog telephony card
0305 R4T1
0405 R8FXX
0406 RCB8FXX 8-channel modular analog telephony card
0505 R24FXX
0506 RCB24FXS 24-Channel FXS analog telephony card
0605 R2T1
0705 R24FXS
0706 RCB24FXO 24-Channel FXO analog telephony card
0905 R1T3 Single T3 Digital Telephony Card
0906 RCB24FXX 24-channel modular analog telephony card
0a06 RCB672FXX 672-channel modular
analog telephony card
0e11 Compaq Computer Corporation
0001 PCI to EISA Bridge
0002 PCI to ISA Bridge
0046 Smart Array 64xx
0e11 4091 Smart Array 6i
0e11 409a Smart Array 641
0e11 409b Smart Array 642
0e11 409c Smart Array 6400
0e11 409d Smart Array 6400 EM
0049 NC7132 Gigabit Upgrade Module
004a NC6136 Gigabit Server Adapter
005a Remote Insight II board - Lights-Out
007c NC7770 1000BaseTX
007d NC6770 1000BaseTX
0085 NC7780 1000BaseTX
00b1 Remote Insight II board - PCI device
00bb NC7760
00ca NC7771
00cb NC7781
00cf NC7772
00d0 NC7782
00d1 NC7783
00e3 NC7761
0508 Netelligent 4/16 Token Ring
1000 Triflex/Pentium Bridge, Model 1000
2000 Triflex/Pentium Bridge, Model 2000
3032 QVision 1280/p
3033 QVision 1280/p
3034 QVision 1280/p

4000 4000 [Triflex]
4040 Integrated Array
4048 Compaq Raid LC2
4050 Smart Array 4200
4051 Smart Array 4250ES
4058 Smart Array 431
4070 Smart Array 5300
4080 Smart Array 5i
4082 Smart
Array 532
4083 Smart Array 5312
4091 Smart Array 6i
409a Smart Array 641
409b Smart Array 642
409c Smart Array 6400
409d Smart Array 6400 EM
6010 HotPlug PCI Bridge 6010
7020 USB Controller
a0ec Fibre Channel Host Controller
a0f0 Advanced System Management Controller
 0e11 b0f3 ProLiant DL360
a0f3 Triflex PCI to ISA Bridge
a0f7 PCI Hotplug Controller
 8086 002a PCI Hotplug Controller A
 8086 002b PCI Hotplug Controller B
a0f8 ZFMicro Chipset USB
a0fc FibreChannel HBA Tachyon
ae10 Smart-2/P RAID Controller
 0e11 4030 Smart-2/P Array Controller
 0e11 4031 Smart-2SL Array Controller
 0e11 4032 Smart Array 3200 Controller
 0e11 4033 Smart Array 3100ES Controller
 0e11 4034 Smart Array 221 Controller
ae29 MIS-L
ae2a MPC
ae2b MIS-E
ae31 System Management Controller
ae32 Netelligent 10/100 TX PCI UTP
ae33 Triflex Dual EIDE Controller
ae34 Netelligent 10 T PCI UTP
ae35 Integrated NetFlex-3/P
ae40 Netelligent Dual 10/100 TX PCI
UTP
ae43 Netelligent Integrated 10/100 TX UTP
ae69 CETUS-L
ae6c Northstar
ae6d NorthStar CPU to PCI Bridge
b011 Netelligent 10/100 TX Embedded UTP

b012 Netelligent 10 T/2 PCI UTP/Coax
b01e NC3120 Fast Ethernet NIC
b01f NC3122 Fast Ethernet NIC
b02f NC1120 Ethernet NIC
b030 Netelligent 10/100 TX UTP
b04a 10/100 TX PCI Intel WOL UTP Controller
b060 Smart Array 5300 Controller
b0c6 NC3161 Fast Ethernet NIC
b0c7 NC3160 Fast Ethernet NIC
b0d7 NC3121 Fast Ethernet NIC
b0dd NC3131 Fast Ethernet NIC
b0de NC3132 Fast Ethernet Module
b0df NC6132 Gigabit Module
b0e0 NC6133 Gigabit Module
b0e1 NC3133 Fast Ethernet Module
b123 NC6134 Gigabit NIC
b134 NC3163 Fast Ethernet NIC
b13c NC3162 Fast Ethernet NIC
b144 NC3123 Fast Ethernet NIC
b163 NC3134 Fast Ethernet NIC
b164 NC3165 Fast Ethernet Upgrade Module
b178 Smart Array 5i/532
 0e11 4080 Smart Array 5i
 0e11 4082 Smart Array 532
 0e11 4083 Smart Array 5312
b1a4 NC7131 Gigabit Server Adapter
b200
 Memory Hot-Plug Controller
b203 Integrated Lights Out Controller
b204 Integrated Lights Out Processor
c000 Remote Insight Lights-Out Edition
f130 NetFlex-3/P ThunderLAN 1.0
f150 NetFlex-3/P ThunderLAN 2.3
0e55 HaSoTec GmbH
0eac SHF Communication Technologies AG
 0008 Ethernet Powerlink Managing Node 01
0f62 Acrox Technologies Co., Ltd.
1000 Broadcom / LSI
 0001 53c810
  1000 1000 LSI53C810AE PCI to SCSI I/O Processor
 0002 53c820
 0003 53c825
  1000 1000 LSI53C825AE PCI to SCSI I/O Processor (Ultra Wide)
 0004 53c815
 0005 53c810AP
 0006 53c860
  1000 1000 LSI53C860E PCI to Ultra SCSI I/O Processor
 000a 53c1510

0e11 b143 Integrated Dual Channel Wide Ultra2 SCSI Controller
1000 1000 LSI53C1510 PCI to Dual Channel Wide Ultra2 SCSI Controller (Nonintelligent mode)
000b 53C896/897
0e11 6004 EOB003 Series SCSI host adapter
1000 1000 LSI53C896/7 PCI to Dual Channel Ultra2 SCSI Multifunction Controller
1000 1010 LSI22910 PCI to Dual Channel
Ultra2 SCSI host adapter
1000 1020 LSI21002 PCI to Dual Channel Ultra2 SCSI host adapter
13e9 1000 6221L-4U (Dual U2W SCSI, dual 10/100TX, graphics)
000c 53c895
1000 1010 LSI8951U PCI to Ultra2 SCSI host adapter
1000 1020 LSI8952U PCI to Ultra2 SCSI host adapter
1de1 3906 DC-390U2B SCSI adapter
1de1 3907 DC-390U2W
000d 53c885
000f 53c875
0e11 7004 Embedded Ultra Wide SCSI Controller
1000 1000 LSI53C876/E PCI to Dual Channel SCSI Controller
1000 1010 LSI22801 PCI to Dual Channel Ultra SCSI host adapter
1000 1020 LSI22802 PCI to Dual Channel Ultra SCSI host adapter
1092 8760 FirePort 40 Dual SCSI Controller
1775 10d0 V5D Single Board Computer Wide Ultra SCSI
1775 10d1 V5D Single Board Computer Ultra SCSI
1de1 3904 DC390F/U Ultra Wide SCSI Adapter
4c53 1000 CC7/CR7/CP7/VC7/VP7/VR7 mainboard
4c53 1050 CT7 mainboard
0010 53C1510
0e11 4040 Integrated Smart Array Controller
0e11 4048 RAID LC2 Controller
1000 1000 53C1510 PCI
to Dual Channel Wide Ultra2 SCSI Controller (Intelligent mode)
0012 53c895a
1000 1000 LSI53C895A PCI to Ultra2 SCSI Controller
0013 53c875a
1000 1000 LSI53C875A PCI to Ultra SCSI Controller
0014 MegaRAID Tri-Mode SAS3516
1028 1f3a PERC H745 Adapter
1028 1f3b PERC H745 Front
1028 1fd4 PERC H745P MX
1137 020e UCSC-RAID-M5 12G Modular RAID Controller
1d49 0602 ThinkSystem RAID 930-16i 4GB Flash PCIe 12Gb Adapter
1d49 0604 ThinkSystem RAID 930-8e 4GB Flash PCIe 12Gb Adapter
1d49 0607 ThinkSystem RAID 930-16i 8GB Flash PCIe 12Gb Adapter
8086 352d Integrated RAID Module RMSP3AD160F
8086 9460 RAID Controller RSP3TD160F
8086 9480 RAID Controller RSP3MD088F
0015 MegaRAID Tri-Mode SAS3416
1028 1f3c PERC H345 Adapter

```
 1028 1f3d  PERC H345 Front
 1d49 0503  ThinkSystem RAID 530-16i PCIe 12Gb Adapter
0016  MegaRAID Tri-Mode SAS3508
 1028 1fc9  PERC H840 Adapter
 1028 1fcb  PERC H740P Adapter
 1028 1fcd  PERC H740P Mini
 1028 1fcf  PERC H740P Mini
 1d49
0601  ThinkSystem RAID 930-8i 2GB Flash PCIe 12Gb Adapter
 1d49 0603  ThinkSystem RAID 930-24i 4GB Flash PCIe 12Gb Adapter
 8086 352e  Integrated RAID Module RMSP3CD080F
 8086 352f  Integrated RAID Module RMSP3HD080E
 8086 9461  RAID Controller RSP3DD080F
0017  MegaRAID Tri-Mode SAS3408
 1d49 0500  ThinkSystem RAID 530-8i PCIe 12Gb Adapter
 1d49 0502  ThinkSystem RAID 530-8i Dense Adapter
 8086 3528  Integrated RAID RMSP3LD060
 8086 3529  Integrated RAID RMSP3LD060
 8086 9441  RAID Controller RSP3WD080E
001b  MegaRAID Tri-Mode SAS3504
 1d49 0605  ThinkSystem RAID 930-4i 2GB Flash Flex Adapter
001c  MegaRAID Tri-Mode SAS3404
 1d49 0501  ThinkSystem RAID 530-4i Flex Adapter
0020  53c1010 Ultra3 SCSI Adapter
 1000 1000  LSI53C1010-33 PCI to Dual Channel Ultra160 SCSI Controller
 107b 1040  Server Onboard 53C1010-33
 1de1 1020  DC-390U3W
0021  53c1010 66MHz  Ultra3 SCSI Adapter
 1000 1000  LSI53C1000/1000R/1010R/1010-66 PCI to Ultra160 SCSI Controller
 1000
1010  Asus TR-DLS onboard 53C1010-66
 103c 1300  Ultra160 SCSI [AB306A]
 103c 1310  Ultra160 SCSI [A9918A]
 103c 1330  Ultra160 SCSI [A7059A]
 103c 1340  Ultra160 SCSI [A7060A]
 124b 1070  PMC-USCSI3
 4c53 1080  CT8 mainboard
 4c53 1300  P017 mezzanine (32-bit PMC)
 4c53 1310  P017 mezzanine (64-bit PMC)
002f  MegaRAID SAS 2208 IOV [Thunderbolt]
 1028 1f39  SPERC8-e
 1028 1f3e  SPERC 8
0030  53c1030 PCI-X Fusion-MPT Dual Ultra320 SCSI
 0e11 00da  ProLiant ML 350
 1028 0123  LSI Logic 1020/1030
 1028 014a  LSI Logic 1020/1030
 1028 016c  PowerEdge 1850 MPT Fusion SCSI/RAID (Perc 4)
 1028 0183  LSI Logic 1020/1030
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 1028 018a  PERC 4/IM
 1028 1010  LSI U320 SCSI Controller
 103c 12c5  Ultra320 SCSI [A7173A]
 103c 1323  Core I/O LAN/SCSI Combo [AB314A]
 103c 3108  Single Channel Ultra320 SCSI HBA G2
 103c 322a  SC11Xe Ultra320 Single Channel PCIe x4 SCSI Host Bus Adapter (412911-B21)
 124b 1170  PMC-USCSI320
# VMware's emulation of this device. Was missing from the
 list.
 15ad 1976  LSI Logic Parallel SCSI Controller
 1734 1052  PRIMERGY BX/RX/TX S2 series onboard SCSI(IME)
0031  53c1030ZC PCI-X Fusion-MPT Dual Ultra320 SCSI
0032  53c1035 PCI-X Fusion-MPT Dual Ultra320 SCSI
 1000 1000  LSI53C1020/1030 PCI-X to Ultra320 SCSI Controller
0033  1030ZC_53c1035 PCI-X Fusion-MPT Dual Ultra320 SCSI
0040  53c1035 PCI-X Fusion-MPT Dual Ultra320 SCSI
 1000 0033  MegaRAID SCSI 320-2XR
 1000 0066  MegaRAID SCSI 320-2XRWS
0041  53C1035ZC PCI-X Fusion-MPT Dual Ultra320 SCSI
0050  SAS1064 PCI-X Fusion-MPT SAS
 1028 1f04  SAS 5/E
 1028 1f09  SAS 5i/R
0052  MegaRAID SAS-3 3216/3224 [Cutlass]
0053  MegaRAID SAS-3 3216/3224 [Cutlass]
 1000 9350  MegaRAID SAS 9341-16i
 1000 9351  MegaRAID SAS 9341-24i
0054  SAS1068 PCI-X Fusion-MPT SAS
 1028 1f04  SAS 5/E Adapter Controller
 1028 1f05  SAS 5/i Adapter Controller
 1028 1f06  SAS 5/i Integrated Controller
 1028 1f07  SAS 5/iR Integrated RAID Controller
 1028 1f08  SAS 5/iR Integrated RAID Controller
 1028
1f09  SAS 5/iR Adapter RAID Controller
 15ad 1976  SAS Controller
0055  SAS1068 PCI-X Fusion-MPT SAS
 1033 8336  SAS1068
0056  SAS1064ET PCI-Express Fusion-MPT SAS
 1014 03bb  ServeRAID BR10il SAS/SATA Controller v2
 8086 34dc  AXX4SASMOD RAID Controller
0057  M1064E MegaRAID SAS
 8086 346c  Embedded Software RAID Technology II (ESTRII)
0058  SAS1068E PCI-Express Fusion-MPT SAS
 1000 3140  SAS3081E-R 8-Port SAS/SATA Host Bus Adapter
 1028 021d  SAS 6/iR Integrated Workstations RAID Controller
 1028 1f0e  SAS 6/iR Adapter RAID Controller
 1028 1f0f  SAS 6/iR Integrated Blades RAID Controller
 1028 1f10  SAS 6/iR Integrated RAID Controller
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103c 3229 SC44Ge Host Bus Adapter
0059 MegaRAID SAS 8208ELP/8208ELP
005a SAS1066E PCI-Express Fusion-MPT SAS
005b MegaRAID SAS 2208 [Thunderbolt]
1000 9265 MegaRAID SAS 9265-8i
1000 9266 MegaRAID SAS 9266-8i
1000 9267 MegaRAID SAS 9267-8i
1000 9268 MegaRAID SAS 9265CV-8i / 9270CV-8i
1000 9269 MegaRAID SAS
9266-4i
1000 9270 MegaRAID SAS 9270-8i
1000 9271 MegaRAID SAS 9271-8i
1000 9272 MegaRAID SAS 9272-8i
1000 9273 MegaRAID SAS 9270CV-8i
1000 9274 MegaRAID SAS 9270-4i
1000 9275 MegaRAID SAS 9271-8iCC
1000 9276 MegaRAID SAS 9271-4i
1000 9285 MegaRAID SAS 9285-8e
1000 9288 MegaRAID SAS 9285CV-8e
1000 9290 MegaRAID SAS 9286-8e
1000 9291 MegaRAID SAS 9286CV-8e
1000 9295 MegaRAID SAS 9286CV-8eCC
1014 040b ServeRAID M5110 SAS/SATA Controller
1014 040c ServeRAID M5120 SAS/SATA Controller
1014 0412 ServeRAID M5110e SAS/SATA Controller
1028 1f2d PERC H810 Adapter
1028 1f30 PERC H710 Embedded
1028 1f31 PERC H710P Adapter
1028 1f33 PERC H710P Mini (for blades)
1028 1f34 PERC H710P Mini (for monolithics)
1028 1f35 PERC H710 Adapter
1028 1f37 PERC H710 Mini (for blades)
1028 1f38 PERC H710 Mini (for monolithics)
15d9 0690 LSI MegaRAID ROMB
8086 3510 RMS25PB080 RAID Controller
8086 3511 RMS25PB040 RAID Controller
8086 3512
RMT3PB080 RAID Controller
8086 3513 Integrated RAID Module RMS25CB080
8086 3514 RMS25CB040 RAID Controller
8086 351c RMS25PB080N RAID Controller
8086 351d RMS25CB080N RAID Controller
8086 9265 RS25DB080 RAID Controller
8086 9268 RS25AB080 RAID Controller
8086 9285 RS25NB008 RAID Controller
8086 9288 RS25SB008 RAID Controller
005c SAS1064A PCI-X Fusion-MPT SAS
005d MegaRAID SAS-3 3108 [Invader]

1000 9361 MegaRAID SAS 9361-8i
1000 9363 MegaRAID SAS 9361-4i
1000 9364 MegaRAID SAS 9364-8i
1000 936a MegaRAID SAS 9364-8i
1028 1f41 PERC H830 Adapter
1028 1f42 PERC H730P Adapter
1028 1f43 PERC H730 Adapter
1028 1f47 PERC H730P Mini
1028 1f48 PERC H730P Mini (for blades)
1028 1f49 PERC H730 Mini
1028 1f4a PERC H730 Mini (for blades)
1028 1f4d PERC FD33xS
1028 1f4f PERC H730P Slim
1028 1f54 PERC FD33xD
1028 1fd1 PERC H730P MX
17aa 1052 ThinkServer RAID 720i
17aa 1053 ThinkServer RAID 720ix
1bd4 0014 12G SAS3108
2G
1bd4 0015 12G SAS3108 4G
1d49 0600 ThinkSystem RAID 730-8i 1GB Cache PCIe 12Gb Adapter
1d49 0608 ThinkSystem RAID 730-8i 2GB Flash PCIe 12Gb Adapter
1d49 0609 ThinkSystem RAID 730-8i 4GB Flash PCIe 12Gb Adapter
8086 351e RMS3CC080 RAID Controller
8086 351f RMS3CC040 RAID Controller
8086 9360 RS3DC080 RAID Controller
8086 9362 RS3DC040 RAID Controller
8086 9380 RS3SC008 RAID Controller
8086 9381 RS3MC044 RAID Controller
005e SAS1066 PCI-X Fusion-MPT SAS
005f MegaRAID SAS-3 3008 [Fury]
1028 1f44 PERC H330 Adapter
1028 1f4b PERC H330 Mini
1028 1f4c PERC H330 Mini (for blades)
1028 1f4d PERC H330 Embedded (for monolithic)
1054 306a SAS 3004 iMR ROMB
1d49 04db ServeRAID M1210 SAS/SATA Controller
1d49 0504 ThinkSystem RAID 520-8i PCIe 12Gb Adapter
0060 MegaRAID SAS 1078
1000 1006 MegaRAID SAS 8888ELP
1000 100a MegaRAID SAS 8708ELP
1000 100e MegaRAID SAS 8884E
1000 100f MegaRAID SAS 8708E
1000 1010 MegaRAID SATA 350-8ELP
1000
1011 MegaRAID SATA 350-4ELP
1000 1012 MegaRAID SAS 8704ELP
1000 1016 MegaRAID SAS 8880EM2

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1014 0363  MegaRAID SAS PCI Express ROMB
1014 0364  SystemX MegaRAID SAS 8808E
1014 0365  SystemX MegaRAID SAS 8884E
1014 0379  SystemX MegaRAID SAS 8880EM2
1028 1f0a  PERC 6/E Adapter RAID Controller
1028 1f0b  PERC 6/i Adapter RAID Controller
1028 1f0c  PERC 6/i Integrated RAID Controller
1028 1f0d  PERC 6/i Integrated RAID Controller
1028 1f11  CERC 6/i Integrated RAID Controller
1033 835a  MegaRAID SAS PCI Express ROMB
1043 824d  MegaRAID SAS PCI Express ROMB
1170 002f  MegaRAID SAS PCI Express ROMB
1170 0036  MegaRAID SAS PCI Express ROMB
15d9 c080  MegaRAID SAS PCI Express ROMB
17aa 6b7c  MegaRAID SAS PCI Express ROMB
18a1 0003  LSI MegaRAID SAS PCI Express ROMB
8086 1006  RAID Controller SRCSAS28EP
8086 100a  RAID Controller SRCSAS28EV
8086 1010  RAID Controller SRCSATA28E
8086 34cc  Integrated RAID Controller SROMBSAS28E
8086 34cd
Integrated RAID Controller SROMBSAS28E
8086 3505  Integrated RAID Controller SROMBSASMP2
0062  SAS1078 PCI-Express Fusion-MPT SAS
1000 0062  SAS1078 PCI-Express Fusion-MPT SAS
0064  SAS2116 PCI-Express Fusion-MPT SAS-2 [Meteor]
1000 3030  9200-16e 6Gb/s SAS/SATA PCIe x8 External HBA
1000 30c0  SAS 9201-16i
1000 30d0  9201-16e 6Gb/s SAS/SATA PCIe x8 External HBA
0065  SAS2116 PCI-Express Fusion-MPT SAS-2 [Meteor]
006e  SAS2308 PCI-Express Fusion-MPT SAS-2
0070  SAS2004 PCI-Express Fusion-MPT SAS-2 [Spitfire]
1000 3010  SAS9211-4i
1014 040e  ServeRAID H1110
0071  MR SAS HBA 2004
0072  SAS2008 PCI-Express Fusion-MPT SAS-2 [Falcon]
1000 3040  9210-8i
1000 3080  9200-8e [LSI SAS 6Gb/s SAS/SATA PCIe x8 External HBA]
1000 30b0  9200-8e [LSI SAS 6Gb/s SAS/SATA PCIe x8 External HBA]
1028 1f1c  6Gbps SAS HBA Adapter
1028 1f1d  PERC H200 Adapter
1028 1f1e  PERC H200 Integrated
1028 1f1f  PERC H200 Modular
1028 1f20  PERC H200 Embedded
1028 1f22  PERC H200
Internal Tape Adapter
# Fujitsu D2607 SAS2008 HBA controller
1734 1177  HBA Ctrl SAS 6G 0/1 [D2607]
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1bd4 000d 6G SAS2008IT
1bd4 000e 6G SAS2008IR
1bd4 000f 6G SAS2008IT SA5248
1bd4 0010 6G SAS2008IR SA5248
8086 350f RMS2LL040 RAID Controller
8086 3700 SSD 910 Series
0073 MegaRAID SAS 2008 [Falcon]
1000 9240 MegaRAID SAS 9240-8i
1000 9241 MegaRAID SAS 9240-4i
1000 92a0 MegaRAID SAS 9220-8i
1014 03b1 ServeRAID M1015 SAS/SATA Controller
1014 040d ServeRAID M1115 SAS/SATA Controller
1028 1f4e PERC H310 Adapter
1028 1f4f PERC H310 Integrated
1028 1f50 PERC H310 Mini Blades
1028 1f51 PERC H310 Mini Monolithics
1028 1f52 PERC H310 Embedded1
1028 1f53 PERC H310 Embedded2
1028 1f54 PERC H310 Reserved
1028 1f78 PERC H310
1054 3035 LSI MegaRAID SAS 9240-8i
1137 0072 2004 iMR ROMB
1137 0073 2008 ROMB
1137 00b0 UCSC RAID SAS 2008M-8i
1137 00b1 UCSC RAID SAS 2008M-8i
1137 00c2 UCS E-Series Double Wide
1137 00c3 UCS E-Series
Single Wide
15d9 0400 Supermicro SMC2008-iMR
1734 1177 RAID Ctrl SAS 6G 0/1 (D2607)
17aa 1051 ThinkServer RAID 510i
8086 350d RMS2AF040 RAID Controller
8086 9240 RAID Controller RS2WC080
8086 9241 RAID Controller RS2WC040
0074 SAS2108 PCI-Express Fusion-MPT SAS-2 [Liberator]
0076 SAS2108 PCI-Express Fusion-MPT SAS-2 [Liberator]
0077 SAS2108 PCI-Express Fusion-MPT SAS-2 [Liberator]
0079 MegaRAID SAS 2108 [Liberator]
1000 9251 MegaRAID SAS 9260-4ix
1000 9256 MegaRAID SAS 9260-8ix
1000 9260 MegaRAID SAS 9260-4i
1000 9261 MegaRAID SAS 9260-8i
1000 9262 MegaRAID SAS 9262-8i
1000 9263 MegaRAID SAS 9261-8i
1000 9264 MegaRAID SAS 9264-8i
1000 9267 MegaRAID SAS 9260CV-4i
1000 9268 MegaRAID SAS 9260CV-8i
1000 9275 MegaRAID SAS 9280-8ex

1000 9276 MR9260-16i
1000 9280 MegaRAID SAS 9280-8e
1000 9281 MegaRAID SAS 9281-8E
1000 9282 MegaRAID SAS 9280-4i4e
1000 9290 MegaRAID SAS 9280DE-24i4e
1014 03b2 ServeRAID M5015 SAS/SATA
Controller
1014 03b3 ServeRAID M5025 SAS/SATA Controller
1028 1f15 PERC H800 Adapter
1028 1f16 PERC H700 Adapter
1028 1f17 PERC H700 Integrated
1028 1f18 PERC H700 Modular
1028 1f1a PERC H800 Proto Adapter
1028 1f1b PERC H700 Integrated
1043 8480 PIKE-2108 16PD
1734 1176 RAID Ctrl SAS 6G 5/6 512MB (D2616)
1734 1177 RAID Ctrl SAS 6G 0/1 (D2607)
8086 350b RMS2MH080 RAID Controller
8086 9256 MegaRAID SAS 9260DE-8i RS2BL080DE
8086 9260 RAID Controller RS2BL040
8086 9261 RAID Controller RS2BL080
8086 9264 RAID Controller RT3WB080 Warm Beach (Caster Lite)
8086 9267 RAID Controller RS2VB040
8086 9268 RAID Controller RS2VB080
8086 9275 RAID Controller RS2PI008DE
8086 9276 RAID Controller RS2WG160
8086 9280 RAID Controller RS2PI008
8086 9282 RAID Controller RS2MB044
8086 9290 RAID Controller RS2SG244
007c MegaRAID SAS 1078DE
1014 0395 ServeRAID-AR10is SAS/SATA Controller
007e SSS6200 PCI-Express Flash SSD
1000 0504 Nytro
NWD-BLP4-800
1000 0507 Nytro NWD-BLP4-1600
1000 0581 Nytro NWD-BLP4-400
1000 100d Nytro NWD-BFH6-1200
1000 100e Nytro NWD-BFH8-1600
1000 107e Nytro NWD-BFH8-3200
1000 1310 Nytro XP6302-8B1536
1000 1311 Nytro XP6302-8B2048
1000 1314 Nytro XP6302-8B4096
1000 150c Nytro XP6210-4A2048
1000 150f Nytro XP6210-4B2048
1000 160b Nytro XP6209-4A1024
1000 1613 Nytro XP6209-4B2048
108e 050a Nytro ELP4x200_4d_n
108e 0581 Nytro ELP4x100_4d_n

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0080  SAS2208 PCI-Express Fusion-MPT SAS-2
0081  SAS2208 PCI-Express Fusion-MPT SAS-2
0082  SAS2208 PCI-Express Fusion-MPT SAS-2
0083  SAS2208 PCI-Express Fusion-MPT SAS-2
0084  SAS2208 PCI-Express Fusion-MPT SAS-2
0085  SAS2208 PCI-Express Fusion-MPT SAS-2
0086  SAS2308 PCI-Express Fusion-MPT SAS-2
 15d9 0690  Onboard MegaRAID SAS2208 [Thunderbolt]
 15d9 0691  Onboard SAS2308 PCI-Express Fusion-MPT SAS-2
0087  SAS2308 PCI-Express Fusion-MPT SAS-2
 1000 3020  9207-8i SAS2.1 HBA
 1000 3030  SAS9207-4i4e
 1000
3040  9207-8e SAS2.1 HBA
 1000 3050  SAS9217-8i
 1000 3060  SAS9217-4i4e
 1014 0472  N2125 External Host Bus Adapter
 1590 0041  H220i
 1590 0042  H221 / 9207-8e
 1590 0044  H220i
 1bd4 0009  6G SAS2308IR
 1bd4 000a  6G SAS2308IT
 8086 3000  RS25GB008 RAID Controller
 8086 3060  RS25FB044 RAID Controller
 8086 3516  RMS25JB080 RAID Controller
 8086 3517  RMS25JB040 RAID Controller
 8086 3518  RMS25KB080 RAID Controller
 8086 3519  RMS25KB040 RAID Controller
 8086 351a  RMS25LB040 RAID Controller
 8086 351b  RMS25LB080 RAID Controller
008f  53c875J
 1092 8000  FirePort 40 SCSI Controller
 1092 8760  FirePort 40 Dual SCSI Host Adapter
0090  SAS3108 PCI-Express Fusion-MPT SAS-3
0091  SAS3108 PCI-Express Fusion-MPT SAS-3
0094  SAS3108 PCI-Express Fusion-MPT SAS-3
0095  SAS3108 PCI-Express Fusion-MPT SAS-3
0096  SAS3004 PCI-Express Fusion-MPT SAS-3
0097  SAS3008 PCI-Express Fusion-MPT SAS-3
 1000 3090  SAS9311-8i
 1000 30a0  SAS9300-8e
 1000 30e0  SAS9300-8i
 1000
3130  SAS 9300-16i
 1028 1f45  HBA330 Adapter
 1028 1f46  12Gbps HBA
 1028 1f53  HBA330 Mini
 1028 1fd2  HBA330 MX
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  1028 1fd3  HBA330 MMZ
# Supermicro AOC-S3008L-L8e uses 0808 for their SAS3008 SAS controller
  15d9 0808  AOC-S3008L-L8e
  1bd4 000b  12G SAS3008IR
  1bd4 000c  12G SAS3008IT
  1bd4 0011  Inspur 12Gb 8i-3008 IT SAS HBA
  1bd4 0012  12Gb SAS3008IR UDM
  1bd4 0026  12G SAS3008IT RACK
  1bd4 0027  12G SAS3008IMR RACK
  1bd4 0028  12G SAS3008IR RACK
 00ab  SAS3516 Fusion-MPT Tri-Mode RAID On Chip (ROC)
# 8 Internal and 8 External port channel 9400 HBA
  1000 3040  HBA 9400-8i8e
  8086 3530  Integrated RAID Module RMSP3JD160J
 00ac  SAS3416 Fusion-MPT Tri-Mode I/O Controller Chip (IOC)
# Channel 16 internal port HBA
  1000 3000  HBA 9400-16i
# Channel 16 external port HBA
  1000 3020  HBA 9400-16e
  1028 1fe3  HBA345 Adapter
  1028 1fe4  HBA345 Front
  1d49 0201  ThinkSystem 430-16i SAS/SATA 12Gb HBA
  1d49 0203  ThinkSystem 430-16e SAS/SATA 12Gb HBA
  8086 3000
  RAID Controller RSP3QD160J
  8086 3020  RAID Controller RSP3GD016J
 00ae  SAS3508 Fusion-MPT Tri-Mode RAID On Chip (ROC)
 00af  SAS3408 Fusion-MPT Tri-Mode I/O Controller Chip (IOC)
  1000 3010  HBA 9400-8i
# 9400 Channel 8 external port HBA
  1000 3030  HBA 9400-8e
  1d49 0200  ThinkSystem 430-8i SAS/SATA 12Gb HBA
  1d49 0202  ThinkSystem 430-8e SAS/SATA 12Gb HBA
  1d49 0204  ThinkSystem 430-8i SAS/SATA 12Gb Dense HBA
 00be  SAS3504 Fusion-MPT Tri-Mode RAID On Chip (ROC)
 00bf  SAS3404 Fusion-MPT Tri-Mode I/O Controller Chip (IOC)
 00c0  SAS3324 PCI-Express Fusion-MPT SAS-3
 00c1  SAS3324 PCI-Express Fusion-MPT SAS-3
 00c2  SAS3324 PCI-Express Fusion-MPT SAS-3
 00c3  SAS3324 PCI-Express Fusion-MPT SAS-3
 00c4  SAS3224 PCI-Express Fusion-MPT SAS-3
 00c5  SAS3316 PCI-Express Fusion-MPT SAS-3
 00c6  SAS3316 PCI-Express Fusion-MPT SAS-3
 00c7  SAS3316 PCI-Express Fusion-MPT SAS-3
 00c8  SAS3316 PCI-Express Fusion-MPT SAS-3
 00c9  SAS3216 PCI-Express Fusion-MPT SAS-3
 00ce  MegaRAID SAS-3
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 3316 [Intruder]
  1000 9371  MegaRAID SAS 9361-16i
  1000 9390  MegaRAID SAS 9380-8i8e
 00cf  MegaRAID SAS-3 3324 [Intruder]
  1000 9370  MegaRAID SAS 9361-24i
 00d0  SAS3716 Fusion-MPT Tri-Mode RAID Controller Chip (ROC)
# 9405W 16 internal port channel HBA
  1000 3050  HBA 9405W-16i
# 9405W 8 internal and 8 external port channel HBA
  1000 3070  HBA 9405W-8i8e
 00d1  SAS3616 Fusion-MPT Tri-Mode I/O Controller Chip (IOC)
# 9405W 16 external port Channel HBA
  1000 3080  HBA 9405W-16e
# 9405W 16 internal port Channel HBA
  1000 3090  HBA 9405W-16i
 00d3  MegaRAID Tri-Mode SAS3716W
 00e0  Fusion-MPT 12GSAS/PCIe Unsupported SAS39xx
 00e1  Fusion-MPT 12GSAS/PCIe SAS39xx
 00e2  Fusion-MPT 12GSAS/PCIe Secure SAS39xx
 00e3  Fusion-MPT 12GSAS/PCIe Unsupported SAS39xx
 00e4  Fusion-MPT 12GSAS/PCIe Unsupported SAS38xx
# Invalid part
  1028 200b  HBA355i Adapter Invalid
# Invalid part
  1028 200c  HBA355i Front Invalid
# Invalid part
  1028 200d  HBA355e Adapter Invalid
# Invalid part
  1028 200e
  HBA350i MX Invalid
# Soft Secure
 00e5  Fusion-MPT 12GSAS/PCIe SAS38xx
# Soft Secure
  1028 200b  HBA355i Adapter
# Soft Secure
  1028 200c  HBA355i Front
# Soft Secure
  1028 200d  HBA355e Adapter
# Soft Secure
  1028 200e  HBA350i MX
  1d49 0205  ThinkSystem 440-16i SAS/SATA PCIe Gen4 12Gb Internal HBA
  1d49 0206  ThinkSystem 440-16e SAS/SATA PCIe Gen4 12Gb HBA
 00e6  Fusion-MPT 12GSAS/PCIe Secure SAS38xx
  1028 200b  HBA355i Adapter
  1028 200c  HBA355i Front
  1028 200d  HBA355e Adapter
  1028 200e  HBA355i MX
  1d49 0205  ThinkSystem 440-16i SAS/SATA PCIe Gen4 12Gb Internal HBA
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  1d49 0206  ThinkSystem 440-16e SAS/SATA PCIe Gen4 12Gb HBA
 00e7  Fusion-MPT 12GSAS/PCIe Unsupported SAS38xx
# Tampered part
  1028 200b  HBA355i Adapter Tampered
# Tampered part
  1028 200c  HBA355i Front Tampered
# Tampered part
  1028 200d  HBA355e Adapter Tampered
# Tampered part
  1028 200e  HBA350i MX Tampered
 02b0  Virtual Endpoint on PCIe Switch
  1d49 0001  ThinkSystem 1610-4P NVMe Switch Adapter
  1d49
 0002  ThinkSystem 810-4P NVMe Switch Adapter
 02b1  Virtual Endpoint on PCIe Switch (9749)
  1d49 0004  ThinkSystem 1610-8P NVMe Switch Adapter
 0407  MegaRAID
  1000 0530  MegaRAID 530 SCSI 320-0X RAID Controller
  1000 0531  MegaRAID 531 SCSI 320-4X RAID Controller
  1000 0532  MegaRAID 532 SCSI 320-2X RAID Controller
  1028 0531  PowerEdge Expandable RAID Controller 4/QC
  1028 0533  PowerEdge Expandable RAID Controller 4/QC
  8086 0530  MegaRAID Intel RAID Controller SRCZCRX
  8086 0532  MegaRAID Intel RAID Controller SRCU42X
 0408  MegaRAID
  1000 0001  MegaRAID SCSI 320-1E RAID Controller
  1000 0002  MegaRAID SCSI 320-2E RAID Controller
  1025 004d  MegaRAID ACER ROMB-2E RAID Controller
  1028 0001  PowerEdge RAID Controller PERC4e/SC
  1028 0002  PowerEdge RAID Controller PERC4e/DC
  1028 0012  PowerEdge RAID Controller RAC4
  1028 0015  PowerEdge RAID Controller PERC5
  1028 1f03  PowerEdge RAID Controller PERC5
  1734 1065  FSC MegaRAID PCI Express ROMB
  8086 0002
  MegaRAID Intel RAID Controller SRCU42E
  8086 3449  MegaRAID Intel RAID Controller SROMBU
 0409  MegaRAID
  1000 3004  MegaRAID SATA 300-4X RAID Controller
  1000 3008  MegaRAID SATA 300-8X RAID Controller
  8086 3008  MegaRAID RAID Controller SRCS28X
  8086 3431  MegaRAID RAID Controller Alief SROMBU42E
  8086 3499  MegaRAID RAID Controller Harwich SROMBU42E
 0411  MegaRAID SAS 1068
  1000 1001  MegaRAID SAS 8408E
  1000 1002  MegaRAID SAS 8480E
  1000 1003  MegaRAID SAS 8344ELP
  1000 1004  MegaRAID SAS 8308ELP
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1000 1008 MegaRAID SAS 84016E
1000 100c MegaRAID SATA 300-12E
1000 100d MegaRAID SATA 300-16E
1000 2004 MegaRAID SATA 300-8ELP
1000 2005 MegaRAID SATA 300-4ELP
1033 8287 MegaRAID SAS PCI Express ROMB
1054 3016 MegaRAID SAS RoMB Server
1734 1081 MegaRAID SAS PCI Express ROMB
1734 10a3 MegaRAID SAS PCI Express ROMB
8086 1001 RAID Controller SRCSAS18E
8086 1003 RAID Controller SRCSAS144E
8086 3500 SROMBSAS18E RAID Controller
8086 3501 SROMBSAS18E
RAID Controller
8086 3504 SROMBSAS18E RAID Controller
0413 MegaRAID SAS 1068 [Verde ZCR]
1000 1005 MegaRAID SAS 8300XLP
0621 FC909 Fibre Channel Adapter
0622 FC929 Fibre Channel Adapter
1000 1020 44929 O Dual Fibre Channel card
0623 FC929 LAN
0624 FC919 Fibre Channel Adapter
0625 FC919 LAN
0626 FC929X Fibre Channel Adapter
1000 1010 7202-XP-LC Dual Fibre Channel card
0627 FC929X LAN
0628 FC919X Fibre Channel Adapter
0629 FC919X LAN
0640 FC949X Fibre Channel Adapter
0642 FC939X Fibre Channel Adapter
0646 FC949ES Fibre Channel Adapter
0701 83C885 NT50 DigitalScape Fast Ethernet
0702 Yellowfin G-NIC gigabit ethernet
1318 0000 PEI100X
0804 SA2010
0805 SA2010ZC
0806 SA2020
0807 SA2020ZC
0901 61C102
1000 63C815
10e0 MegaRAID 12GSAS/PCIe Unsupported SAS39xx
1028 1ae0 PERC H755 Adapter - Invalid Device
1028 1ae1 PERC H755 Front - Invalid Device
1028 1ae2 PERC H755N Front - Invalid Device
1028 1ae3 PERC H755 MX -
Invalid Device
10e1 MegaRAID 12GSAS/PCIe SAS39xx
1028 1ae0 PERC H755 Adapter

1028 1ae1 PERC H755 Front
1028 1ae2 PERC H755N Front
1028 1ae3 PERC H755 MX
1d49 060a ThinkSystem RAID 940-8i 4GB Flash PCIe Gen4 12Gb Adapter
1d49 060b ThinkSystem RAID 940-8i 8GB Flash PCIe Gen4 12Gb Adapter
1d49 060c ThinkSystem RAID 940-16i 8GB Flash PCIe Gen4 12Gb Adapter
1d49 060d ThinkSystem RAID 940-16i 8GB Flash PCIe Gen4 12Gb Internal Adapter
1d49 060e ThinkSystem RAID 940-32i 8GB Flash PCIe Gen4 12Gb Adapter
1d49 060f ThinkSystem RAID 940-8e 4GB Flash PCIe Gen4 12Gb Adapter
10e2 MegaRAID 12GSAS/PCIe Secure SAS39xx
1028 1ae0 PERC H755 Adapter
1028 1ae1 PERC H755 Front
1028 1ae2 PERC H755N Front
1028 1ae3 PERC H755 MX
1d49 060a ThinkSystem RAID 940-8i 4GB Flash PCIe Gen4 12Gb Adapter
1d49 060b ThinkSystem RAID 940-8i 8GB Flash PCIe Gen4 12Gb Adapter
1d49 060c ThinkSystem RAID 940-16i 8GB Flash PCIe Gen4 12Gb Adapter
1d49 060d ThinkSystem RAID 940-16i
8GB Flash PCIe Gen4 12Gb Internal Adapter
1d49 060e ThinkSystem RAID 940-32i 8GB Flash PCIe Gen4 12Gb Adapter
1d49 060f ThinkSystem RAID 940-8e 4GB Flash PCIe Gen4 12Gb Adapter
10e3 MegaRAID 12GSAS/PCIe Unsupported SAS39xx
1028 1ae0 PERC H755 Adapter - Tampered Device
1028 1ae1 PERC H755 Front - Tampered Device
1028 1ae2 PERC H755N Front - Tampered Device
1028 1ae3 PERC H755 MX - Tampered Device
10e4 MegaRAID 12GSAS/PCIe Unsupported SAS38xx
10e5 MegaRAID 12GSAS/PCIe SAS38xx
10e6 MegaRAID 12GSAS/PCIe Secure SAS38xx
10e7 MegaRAID 12GSAS/PCIe Unsupported SAS38xx
1960 MegaRAID
1000 0518 MegaRAID 518 SCSI 320-2 Controller
1000 0520 MegaRAID 520 SCSI 320-1 Controller
1000 0522 MegaRAID 522 i4 133 RAID Controller
1000 0523 MegaRAID SATA 150-6 RAID Controller
1000 4523 MegaRAID SATA 150-4 RAID Controller
1000 a520 MegaRAID ZCR SCSI 320-0 Controller
1028 0518 MegaRAID 518 DELL PERC 4/DC RAID Controller
1028 0520 MegaRAID 520 DELL PERC
4/SC RAID Controller
1028 0531 PowerEdge Expandable RAID Controller 4/QC
1028 0533 PowerEdge Expandable RAID Controller 4/QC
8086 0520 MegaRAID RAID Controller SRCU41L
8086 0523 MegaRAID RAID Controller SRCS16
3050 SAS2008 PCI-Express Fusion-MPT SAS-2
6001 DX1 Multiformat Broadcast HD/SD Encoder/Decoder
1001 Kolter Electronic
0010 PCI 1616 Measurement card with 32 digital I/O lines

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0011  OPTO-PCI Opto-Isolated digital I/O board
0012  PCI-AD/DA Analogue I/O board
0013  PCI-OPTO-RELAIS Digital I/O board with relay outputs
0014  PCI-Counter/Timer Counter Timer board
0015  PCI-DAC416 Analogue output board
0016  PCI-MFB Analogue I/O board
0017  PROTO-3 PCI Prototyping board
9100  INI-9100/9100W SCSI Host
# nee ATI Technologies, Inc.
1002  Advanced Micro Devices, Inc. [AMD/ATI]
1304  Kaveri
1305  Kaveri
1306  Kaveri
1307  Kaveri
1308  Kaveri HDMI/DP Audio Controller
 17aa 3988  Z50-75
1309  Kaveri [Radeon R6/R7 Graphics]
 17aa 3830  Z50-75
130a  Kaveri [Radeon
R6 Graphics]
130b  Kaveri [Radeon R4 Graphics]
130c  Kaveri [Radeon R7 Graphics]
130d  Kaveri [Radeon R6 Graphics]
130e  Kaveri [Radeon R5 Graphics]
130f  Kaveri [Radeon R7 Graphics]
1310  Kaveri
1311  Kaveri
1312  Kaveri
1313  Kaveri [Radeon R7 Graphics]
1314  Wrestler HDMI Audio
 174b 1001  PURE Fusion Mini
1315  Kaveri [Radeon R5 Graphics]
1316  Kaveri [Radeon R5 Graphics]
1317  Kaveri
1318  Kaveri [Radeon R5 Graphics]
131b  Kaveri [Radeon R4 Graphics]
131c  Kaveri [Radeon R7 Graphics]
131d  Kaveri [Radeon R6 Graphics]
13e9  Ariel
1478  Navi 10 XL Upstream Port of PCI Express Switch
1479  Navi 10 XL Downstream Port of PCI Express Switch
154c  Kryptos
154e  Garfield
1551  Arlene
1552  Pooky
1561  Anubis
15d8  Picasso
 103c 8615  Pavilion Laptop 15-cw1xxx
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17aa 5124 ThinkPad E595
15dd Raven Ridge [Radeon Vega Series / Radeon Vega Mobile Series]
103c 83c6 Radeon Vega 8 Mobile
1458 d000 Radeon RX Vega 11
15de Raven/Raven2/Fenghuang HDMI/DP Audio
Controller
103c 8615 Pavilion Laptop 15-cw1xxx
17aa 5124 ThinkPad E595
15df Raven/Raven2/Fenghuang/Renoir Cryptographic Coprocessor
103c 8615 Pavilion Laptop 15-cw1xxx
15ff Fenghuang [Zhongshan Subor Z+]
1607 Arden
1636 Renoir
1714 BeaverCreek HDMI Audio [Radeon HD 6500D and 6400G-6600G series]
103c 168b ProBook 4535s
3150 RV380/M24 [Mobility Radeon X600]
103c 0934 nx8220
3151 RV380 GL [FireMV 2400]
3152 RV370/M22 [Mobility Radeon X300]
3154 RV380/M24 GL [Mobility FireGL V3200]
3155 RV380 GL [FireMV 2400]
3171 RV380 GL [FireMV 2400] (Secondary)
3e50 RV380 [Radeon X600]
3e54 RV380 GL [FireGL V3200]
3e70 RV380 [Radeon X600] (Secondary)
4136 RS100 [Mobility IGP 320M]
4137 RS200 [Radeon IGP 340]
4144 R300 [Radeon 9500]
4146 R300 [Radeon 9700 PRO]
4147 R300 GL [FireGL Z1]
4148 R350 [Radeon 9800/9800 SE]
4150 RV350 [Radeon 9550/9600/X1050 Series]
1002 0002 R9600 Pro primary (Asus OEM for HP)
1002 0003 R9600 Pro secondary (Asus
OEM for HP)
1002 4722 All-in-Wonder 2006 AGP Edition
1458 4024 GV-R96128D
148c 2064 R96A-C3N
148c 2066 R96A-C3N
174b 7c19 Atlantis Radeon 9600 Pro
174b 7c29 GC-R9600PRO
17ee 2002 Radeon 9600 256Mb Primary
18bc 0101 GC-R9600PRO (Primary)
4151 RV350 [Radeon 9600 Series]
1043 c004 A9600SE
174b 7c37 Radeon 9600SE 128M DDR V/D/VO
4152 RV360 [Radeon 9600/X1050 Series]
1002 0002 Radeon 9600XT

1002 4772 All-in-Wonder 9600 XT
1043 c002 Radeon 9600 XT TVD
1043 c01a A9600XT/TD
1462 9510 RX9600XT (MS-8951)
174b 7c29 Radeon 9600XT
1787 4002 Radeon 9600 XT
4153 RV350 [Radeon 9550]
1043 010c A9550GE/TD
1462 932c RX9550SE-TD128 (MS-8932)
4154 RV350 GL [FireGL T2]
4155 RV350 [Radeon 9600]
4157 RV350 GL [FireGL T2]
4158 68800AX [Graphics Ultra Pro PCI]
4164 R300 [Radeon 9500 PRO] (Secondary)
4165 R300 [Radeon 9700 PRO] (Secondary)
4166 R300 [Radeon 9700 PRO] (Secondary)
4168 RV350 [Radeon 9800 SE] (Secondary)
4170 RV350
[Radeon 9550/9600/X1050 Series] (Secondary)
1002 0003 R9600 Pro secondary (Asus OEM for HP)
1002 4723 All-in-Wonder 2006 AGP Edition (Secondary)
1458 4025 GV-R96128D (Secondary)
148c 2067 R96A-C3N (Secondary)
174b 7c28 GC-R9600PRO (Secondary)
17ee 2003 Radeon 9600 256Mb (Secondary)
18bc 0100 GC-R9600PRO (Secondary)
4171 RV350 [Radeon 9600] (Secondary)
1043 c005 A9600SE (Secondary)
174b 7c36 Radeon 9600SE 128M DDR V/D/VO (secondary)
4172 RV350 [Radeon 9600/X1050 Series] (Secondary)
1002 0003 Radeon 9600XT (Secondary)
1002 4773 All-in-Wonder 9600 XT (Secondary)
1043 c003 A9600XT (Secondary)
1043 c01b A9600XT/TD (Secondary)
174b 7c28 Radeon 9600XT (Secondary)
1787 4003 Radeon 9600 XT (Secondary)
4173 RV350 [Radeon 9550] (Secondary)
1043 010d A9550GE/TD (Secondary)
4242 R200 [All-In-Wonder Radeon 8500 DV]
1002 02aa Radeon 8500 AIW DV Edition
4243 R200 PCI Bridge [All-in-Wonder Radeon 8500DV]
4336 RS100 [Radeon IGP 320M]
1002
4336 Pavilion ze4300 ATI Radeon Mobility U1 (IGP 320 M)
103c 0024 Pavilion ze4400 builtin Video
161f 2029 eMachines M5312 builtin Video
4337 RS200M [Radeon IGP 330M/340M/345M/350M]
1014 053a ThinkPad R40e

103c 0850 Radeon IGP 345M
4341 SB200 AC97 Audio Controller
4342 SB200 PCI to PCI Bridge
4345 SB200 EHCI USB Controller
4346 Crayola 6 [XENOS Parent Die (XBOX 360)]
4347 SB200 OHCI USB Controller #1
4348 SB200 OHCI USB Controller #2
4349 SB200 IDE Controller
434c SB200 PCI to LPC Bridge
434d SB200 AC97 Modem Controller
4353 SB200 SMBus Controller
4354 215CT [Mach64 CT PCI]
4358 Mach64 CX [Graphics Xpression]
4361 SB300 AC'97 Audio Controller
4362 SB300 PCI to PCI Bridge
4363 SB300 SMBus Controller
4365 SB300 USB Controller (EHCI)
4367 SB300 USB Controller (EHCI)
4368 SB300 USB Controller (EHCI)
4369 SB300 IDE Controller
436c SB300 PCI to LPC Bridge
436d SB300 AC97 Modem Controller
436e SB300 Serial ATA Controller
4370 IXP SB400
AC'97 Audio Controller
1025 0079 Aspire 5024WLMMi
1025 0091 Aspire 5032WXMi
103c 2a05 Pavilion t3030.de Desktop PC
103c 308b MX6125
105b 0c81 Realtek ALC 653
107b 0300 MX6421
1462 0131 MS-1013 Notebook
4371 IXP SB4x0 PCI-PCI Bridge
103c 308b MX6125
1462 7217 Aspire L250
4372 IXP SB4x0 SMBus Controller
1025 0080 Aspire 5024WLMMi
103c 2a20 Pavilion t3030.de Desktop PC
103c 308b MX6125
1462 0131 MS-1013 Notebook
1462 7217 Aspire L250
4373 IXP SB4x0 USB2 Host Controller
1025 0080 Aspire 5024WLMMi
103c 2a20 Pavilion t3030.de Desktop PC
103c 308b MX6125
1462 7217 Aspire L250
4374 IXP SB4x0 USB Host Controller
103c 2a20 Pavilion t3030.de Desktop PC

103c 308b MX6125
1462 7217 Aspire L250
4375 IXP SB4x0 USB Host Controller
1025 0080 Aspire 5024WLMMi
103c 2a20 Pavilion t3030.de Desktop PC
103c 308b MX6125
1462 7217 Aspire L250
4376 IXP SB4x0 IDE Controller
1025 0080 Aspire 5024WLMMi
103c 2a20 Pavilion
t3030.de Desktop PC
103c 308b MX6125
1462 0131 MS-1013 Notebook
1462 7217 Aspire L250
4377 IXP SB4x0 PCI-ISA Bridge
1025 0080 Aspire 5024WLMi
103c 2a20 Pavilion t3030.de Desktop PC
103c 308b MX6125
1462 7217 Aspire L250
4378 IXP SB400 AC'97 Modem Controller
1025 0080 Aspire 5024WLMMi
103c 308b MX6125
1462 0131 MS-1013 Notebook
4379 IXP SB4x0 Serial ATA Controller
1462 7141 Aspire L250
437a IXP SB400 Serial ATA Controller
1002 4379 4379 Serial ATA Controller
1002 437a 437A Serial ATA Controller
1462 7141 Aspire L250
14f1 8800 Leadtek WinFast TV2000XP Expert
437b IXP SB4x0 High Definition Audio Controller
1002 437b IXP SB4x0 High Definition Audio Controller
10cf 1326 Fujitsu Lifebook A3040
1734 10b8 Realtek High Definition Audio
4380 SB600 Non-Raid-5 SATA
103c 2813 DC5750 Microtower
1179 ff50 Satellite P305D-S8995E
1458 b003 GA-MA790FX-DS5 (rev. 1.0)
1458 b005 Gigabyte GA-MA69G-S3H Motherboard
1462 7327 K9AG
Neo2
17f2 5999 KI690-AM2 Motherboard
4381 SB600 SATA Controller (RAID 5 mode)
4382 SB600 AC97 Audio
4383 SBx00 Azalia (Intel HDA)
1019 2120 A785GM-M
103c 1611 Pavilion dm1z-3000
103c 280a DC5750 Microtower

1043 8230 M3A78-EH Motherboard
1043 836c M4A785TD Motherboard
1043 8410 M4A89GTD PRO/USB3 Motherboard
1043 841b M5A88-V EVO
1043 8445 M5A78L LE
105b 0e13 N15235/A74MX mainboard / AMD SB700
1179 ff50 Satellite P305D-S8995E
1458 a022 GA-MA770-DS3rev2.0 Motherboard
17f2 5000 KI690-AM2 Motherboard
4384 SBx00 PCI to PCI Bridge
4385 SBx00 SMBus Controller
1019 2120 A785GM-M
103c 1611 Pavilion DM1Z-3000
103c 280a DC5750 Microtower
1043 82ef M3A78-EH Motherboard
1043 8389 M4A785TD Motherboard
105b 0e13 N15235/A74MX mainboard / AMD SB700
1179 ff50 Satellite P305D-S8995E
1458 4385 GA-MA770-DS3rev2.0 Motherboard
1462 7368 K9AG Neo2
15d9 a811 H8DGU
174b 1001 PURE Fusion Mini
17f2 5000 KI690-AM2 Motherboard
4386
SB600 USB Controller (EHCI)
103c 280a DC5750 Microtower
1179 ff50 Satellite P305D-S8995E
1462 7368 K9AG Neo2
17f2 5000 KI690-AM2 Motherboard
4387 SB600 USB (OHCI0)
103c 280a DC5750 Microtower
1179 ff50 Satellite P305D-S8995E
1462 7368 K9AG Neo2
17f2 5000 KI690-AM2 Motherboard
4388 SB600 USB (OHCI1)
103c 280a DC5750 Microtower
1179 ff50 Satellite P305D-S8995E
1462 7368 K9AG Neo2
17f2 5000 KI690-AM2 Motherboard
4389 SB600 USB (OHCI2)
103c 280a DC5750 Microtower
1179 ff50 Satellite P305D-S8995E
1462 7368 K9AG Neo2
17f2 5000 KI690-AM2 Motherboard
438a SB600 USB (OHCI3)
103c 280a DC5750 Microtower
1179 ff50 Satellite P305D-S8995E
1462 7368 K9AG Neo2

17f2 5000 KI690-AM2 Motherboard
438b SB600 USB (OHCI4)
103c 280a DC5750 Microtower
1179 ff50 Satellite P305D-S8995E
1462 7368 K9AG Neo2
17f2 5000 KI690-AM2 Motherboard
438c SB600 IDE
103c 280a DC5750 Microtower
1179 ff50 Satellite P305D-S8995E
1458 5002
Gigabyte GA-MA69G-S3H Motherboard
1462 7368 K9AG Neo2
17f2 5000 KI690-AM2 Motherboard
438d SB600 PCI to LPC Bridge
103c 280a DC5750 Microtower
1179 ff50 Satellite P305D-S8995E
1462 7368 K9AG Neo2
17f2 5000 KI690-AM2 Motherboard
438e SB600 AC97 Modem
4390 SB7x0/SB8x0/SB9x0 SATA Controller [IDE mode]
1043 82ef M3A78-EH Motherboard
1043 8389 M4A785TD Motherboard
105b 0e13 N15235/A74MX mainboard / AMD SB700
1458 b002 GA-MA770-DS3rev2.0 Motherboard
1849 4390 Motherboard (one of many)
4391 SB7x0/SB8x0/SB9x0 SATA Controller [AHCI mode]
103c 1609 ProLiant MicroServer N36L
103c 1611 Pavilion DM1Z-3000
1043 82ef M3A78-EH Motherboard
1043 8443 M5A88-V EVO
1043 84dd M5A99X EVO (R1.0) SB950
105b 0e13 N15235/A74MX mainboard / AMD SB700
174b 1001 PURE Fusion Mini
4392 SB7x0/SB8x0/SB9x0 SATA Controller [Non-RAID5 mode]
105b 0e13 N15235/A74MX mainboard / AMD SB700
4393 SB7x0/SB8x0/SB9x0 SATA Controller [RAID5 mode]
4394 SB7x0/SB8x0/SB9x0
SATA Controller [AHCI mode]
4395 SB8x0/SB9x0 SATA Controller [Storage mode]
4396 SB7x0/SB8x0/SB9x0 USB EHCI Controller
1019 2120 A785GM-M
103c 1609 ProLiant MicroServer N36L
103c 1611 Pavilion DM1Z-3000
1043 82ef M3A78-EH Motherboard
1043 8443 M5A88-V EVO
105b 0e13 N15235/A74MX mainboard / AMD SB700
15d9 a811 H8DGU
174b 1001 PURE Fusion Mini

4397 SB7x0/SB8x0/SB9x0 USB OHCI0 Controller
 1019 2120 A785GM-M
 103c 1609 ProLiant MicroServer N36L
 103c 1611 Pavilion DM1Z-3000
 1043 82ef M3A78-EH Motherboard
 1043 8443 M5A88-V EVO
 105b 0e13 N15235/A74MX mainboard / AMD SB700
 15d9 a811 H8DGU
 174b 1001 PURE Fusion Mini
4398 SB7x0 USB OHCI1 Controller
 1019 2120 A785GM-M
 1043 82ef M3A78-EH Motherboard
 105b 0e13 N15235/A74MX mainboard / AMD SB700
 15d9 a811 H8DGU
4399 SB7x0/SB8x0/SB9x0 USB OHCI2 Controller
 1019 2120 A785GM-M
 1043 82ef M3A78-EH Motherboard
 1043 8443 M5A88-V EVO
 105b 0e13 N15235/A74MX mainboard / AMD
SB700
 174b 1001 PURE Fusion Mini
439c SB7x0/SB8x0/SB9x0 IDE Controller
 1002 4392 MSI MS-7713 motherboard
 1019 2120 A785GM-M
 103c 1609 ProLiant MicroServer N36L
 1043 82ef M3A78-EH Motherboard
 105b 0e13 N15235/A74MX mainboard / AMD SB700
439d SB7x0/SB8x0/SB9x0 LPC host controller
 1019 2120 A785GM-M
 103c 1609 ProLiant MicroServer N36L
 103c 1611 Pavilion DM1Z-3000
 1043 82ef M3A78-EH Motherboard
 1043 8443 M5A88-V EVO
 105b 0e13 N15235/A74MX mainboard / AMD SB700
 174b 1001 PURE Fusion Mini
43a0 SB700/SB800/SB900 PCI to PCI bridge (PCIE port 0)
43a1 SB700/SB800/SB900 PCI to PCI bridge (PCIE port 1)
43a2 SB900 PCI to PCI bridge (PCIE port 2)
43a3 SB900 PCI to PCI bridge (PCIE port 3)
4437 RS250 [Mobility Radeon 7000 IGP]
4554 210888ET [Mach64 ET]
4630 XENOS Parent Die (XBOX 360)
4631 XENOS Daughter Die (XBOX 360)
4654 Mach64 VT
4742 Rage 3 [3D Rage PRO AGP 2X]
 1002 0040 Rage Pro Turbo AGP 2X
 1002 0044 Rage Pro Turbo AGP 2X
 1002

0061 Rage Pro AIW AGP 2X
 1002 0062 Rage Pro AIW AGP 2X
 1002 0063 Rage Pro AIW AGP 2X
 1002 0080 Rage Pro Turbo AGP 2X
 1002 0084 Rage Pro Turbo AGP 2X
 1002 4742 Rage Pro Turbo AGP 2X
 1002 8001 Rage Pro Turbo AGP 2X
 1028 0082 Rage Pro Turbo AGP 2X
 1028 4082 Optiplex GX1 Onboard Display Adapter
 1028 8082 Rage Pro Turbo AGP 2X
 1028 c082 Rage Pro Turbo AGP 2X
 8086 4152 Xpert 98D AGP 2X
 8086 464a Rage Pro Turbo AGP 2X
4744 Rage 3 [3D Rage PRO AGP 1X]
 1002 4744 Rage Pro Turbo AGP
 8086 4d55 Rage 3D Pro AGP 1X [Intel MU440EX]
4749 3D Rage PRO PCI
 1002 0061 Rage Pro AIW
 1002 0062 Rage Pro AIW
474d Rage XL AGP 2X
 1002 0004 Xpert 98 RXL AGP 2X
 1002 0008 Xpert 98 RXL AGP 2X
 1002 0080 Rage XL AGP 2X
 1002 0084 Xpert 98 AGP 2X
 1002 474d Rage XL AGP
 1033 806a Rage XL AGP
474e Rage XC AGP
 1002 474e Rage XC AGP
474f Rage XL
 1002 0008 Rage XL
 1002 474f Rage XL
4750 3D Rage Pro PCI
 1002 0040 Rage Pro Turbo
 1002
0044 Rage Pro Turbo
 1002 0080 Rage Pro Turbo
 1002 0084 Rage Pro Turbo
 1002 4750 Rage Pro Turbo
4752 Rage 3 [Rage XL PCI]
 0e11 001e Proliant Rage XL
 1002 0008 Rage XL
 1002 4752 Proliant Rage XL
 1002 8008 Rage XL
 1014 0240 eServer xSeries server mainboard
 1028 00ce PowerEdge 1400
 1028 00d1 PowerEdge 2550
 1028 00d9 PowerEdge 2500
 1028 0134 PowerEdge 600SC

1028 014a PowerEdge 1750
1028 0165 PowerEdge 750
103c 10e1 NetServer Rage XL
103c 3208 ProLiant DL140 G2
107b 6400 6400 Server
1734 007a PRIMERGY RX/TX series onboard VGA
1734 1073 Primergy Econel 200 D2020 mainboard
8086 3411 SDS2 Mainboard
8086 3427 S875WP1-E mainboard
8086 5744 S845WD1-E mainboard
4753 Rage XC
1002 4753 Rage XC
4754 Mach64 GT/GT-B [3D Rage I/II]
4755 Mach64 GT-B [3D Rage II+ DVD]
4756 Rage 2 [3D Rage IIC PCI]
1002 4756 Rage IIC
4757 Rage 2 [3D Rage IIC AGP]
1002 4757 Rage IIC AGP
1028 0089 Rage 3D IIC
1028 008e PowerEdge 1300
onboard video
1028 4082 Rage 3D IIC
1028 8082 Rage 3D IIC
1028 c082 Rage 3D IIC
4758 Mach64 GX [WinTurbo]
4759 Rage 3 [3D Rage IIC PCI]
475a 3D Rage IIC AGP
1002 0084 Rage 3D Pro AGP 2x XPERT 98
1002 0087 Rage 3D IIC
1002 475a Rage IIC AGP
4845 Xilleon 220 HBIU for HDTV2
4846 Xilleon 220 IDE for HDTV2
4847 Xilleon 220 USB for HDTV2
4848 Xilleon 220 DAIO-0 for HDTV2
4849 Xilleon 220 DAIO-1 for HDTV2
484a Xilleon 220 LPC for HDTV2
4850 Xilleon 215 HBIU for X215
4851 Xilleon 215 IDE for X215
4852 Xilleon 215 USB for X215
4853 Xilleon 215 DAIO-0 for X215
4854 Xilleon 215 DAIO-1 for X215
4855 Xilleon 225 HBIU for X225
4856 Xilleon 225 IDE for X225
4857 Xilleon 225 USB for X225
4858 Xilleon 225 DAIO-0 for X225
4859 Xilleon 225 DAIO-1 for X225
4860 Xilleon 210 HBIU for X210
4861 Xilleon 210 IDE for X210

4862 Xilleon 210 USB for X210
4863 Xilleon 210 DAIO-0 for X210
4864 Xilleon 210 DAIO-1 for X210
4865 Xilleon 226 HBIU for
X226
4866 Xilleon 226 IDE for X226
4867 Xilleon 226 USB for X226
4868 Xilleon 226 DAIO-0 for X226
4869 Xilleon 226 DAIO-1 for X226
486a Xilleon 240S HBIU for X240S
486b Xilleon 240H HBIU for X240H
486c Xilleon 240S USB for X240S
486d Xilleon 240H USB for X240H
486e Xilleon 250 USB 1.1 for X250
486f Xilleon 260 USB 1.1 for X260
4870 Xilleon 250 HBIU for X250
4871 Xilleon 250 IDE for X250
4872 Xilleon 234/235 HBIU for X234/X235
4873 Xilleon 244/245 HBIU for X244/X245
4874 Xilleon 234/235 USB 1.1 for X234/X235
4875 Xilleon 260 HBIU for X260
4876 Xilleon 260 IDE for X260
4877 Xilleon 244/245 USB 1.1 for X244/X245
4878 Xilleon 270 HBIU for X270
487b Xilleon 242 HBIU for X242
487d Xilleon 242 USB 1.1 for X242
4880 Xilleon 254 HBIU for X254
4881 Xilleon 254 USB 1.1 for X254
4882 Xilleon 255 HBIU for X255
4883 Xilleon 255 USB 1.1 for X255
4884 Xilleon 243 HBIU for X243
4885 Xilleon 243 USB 1.1 for X243
4886 Xilleon 233 HBIU for X233
4887
Xilleon 233 USB 1.1 for X233
4888 Xilleon 143 HBIU for X143
4889 Xilleon 143 HBIU for X143L
488a Xilleon 143 HBIU for X143S
4966 RV250 [Radeon 9000 Series]
10f1 0002 RV250 If [Tachyon G9000 PRO]
148c 2039 RV250 If [Radeon 9000 Pro "Evil Commando"]
1509 9a00 RV250 If [Radeon 9000 "AT009"]
1681 0040 RV250 If [3D prophet 9000]
174b 7176 Radeon 9000 Pro
174b 7192 RV250 If [Radeon 9000 "Atlantis"]
17af 2005 RV250 If [Excalibur Radeon 9000 Pro]
17af 2006 RV250 If [Excalibur Radeon 9000]
496e RV250 [Radeon 9000] (Secondary)

4a49 R420 [Radeon X800 PRO/GTO AGP]
 174b 2620 R420 [Radeon X800 GTO AGP]
4a4a R420 [Radeon X800 GT AGP]
4a4b R420 [Radeon X800 AGP Series]
4a4d R420 GL [FireGL X3-256]
4a4e RV420/M18 [Mobility Radeon 9800]
4a4f R420 [Radeon X850 AGP]
4a50 R420 [Radeon X800 XT Platinum Edition AGP]
4a54 R420 [Radeon X800 VE AGP]
 1002 4422 All-In-Wonder X800 VE AGP
4a69 R420 [Radeon X800 PRO/GTO] (Secondary)
4a6a R420 [Radeon X800]
(Secondary)
4a6b R420 [Radeon X800 XT AGP] (Secondary)
4a70 R420 [Radeon X800 XT Platinum Edition AGP] (Secondary)
4a74 R420 [Radeon X800 VE] (Secondary)
4b49 R481 [Radeon X850 XT AGP]
4b4b R481 [Radeon X850 PRO AGP]
4b4c R481 [Radeon X850 XT Platinum Edition AGP]
4b69 R481 [Radeon X850 XT AGP] (Secondary)
4b6b R481 [Radeon X850 PRO AGP] (Secondary)
4b6c R481 [Radeon X850 XT Platinum Edition AGP] (Secondary)
4c42 Mach64 LT [3D Rage LT PRO AGP]
 0e11 b0e7 Rage LT Pro (Compaq Presario 5240)
 0e11 b0e8 Rage 3D LT Pro
 0e11 b10e 3D Rage LT Pro (Compaq Armada 1750)
 1002 0040 Rage LT Pro AGP 2X
 1002 0044 Rage LT Pro AGP 2X
 1002 4c42 Rage LT Pro AGP 2X
 1002 8001 Rage LT Pro AGP 2X
 1028 0085 Rage 3D LT Pro
4c46 Rage Mobility 128 AGP 2X/Mobility M3
 1002 0155 IBM Thinkpad A22p
 1014 0155 Thinkpad A22p
 1028 00b1 Latitude C600
4c47 3D Rage IIC PCI / Mobility Radeon 7500/7500C
4c49 3D Rage LT PRO PCI
 1002 0004 Rage LT Pro
 1002 0040 Rage
LT Pro
 1002 0044 Rage LT Pro
 1002 4c49 Rage LT Pro
4c4d Rage Mobility AGP 2x Series
 0e11 b111 Armada M700
 0e11 b160 Armada E500
 1002 0084 Xpert 98 AGP 2X (Mobility)
 1014 0154 ThinkPad A20m/A21m
 1028 00aa Latitude CPt

1028 00bb Latitude CPx
1179 ff00 Satellite 1715XCDS laptop
13bd 1019 PC-AR10
4c50 Rage 3 LT [3D Rage LT PRO PCI]
1002 4c50 Rage LT Pro
4c52 M1 [Rage Mobility-M1 PCI]
1033 8112 Versa Note VXi
4c54 264LT [Mach64 LT]
4c57 RV200/M7 [Mobility Radeon 7500]
1014 0517 ThinkPad T30
1014 0530 ThinkPad T4x Series
1028 00e6 Radeon Mobility M7 LW (Dell Inspiron 8100)
1028 012a Latitude C640
1043 1622 Mobility Radeon M7 (L3C/S)
144d c006 Radeon Mobility M7 LW in vpr Matrix 170B4
4c58 RV200/M7 GL [Mobility FireGL 7800]
4c59 RV100/M6 [Rage/Radeon Mobility Series]
0e11 b111 Evo N600c
1014 0235 ThinkPad A30/A30p (2652/2653)
1014 0239 ThinkPad X22/X23/X24
103c 0025 XE4500 Notebook
104d 80e7 VAIO PCG-GR214EP/GR214MP/GR215MP/GR314MP/GR315MP
104d
8140 PCG-Z1SP laptop
1509 1930 Medion MD9703
4c66 RV250/M9 GL [Mobility FireGL 9000/Radeon 9000]
1014 054d ThinkPad T41
4c6e RV250/M9 [Mobility Radeon 9000] (Secondary)
4d46 Rage Mobility 128 AGP 4X/Mobility M4
4d52 Theater 550 PRO PCI [ATI TV Wonder 550]
4d53 Theater 550 PRO PCIe
4e44 R300 [Radeon 9700/9700 PRO]
1002 515e Radeon ES1000
1002 5965 Radeon ES1000
4e45 R300 [Radeon 9500 PRO/9700]
1002 0002 Radeon R300 NE [Radeon 9500 Pro]
1681 0002 Hercules 3D Prophet 9500 PRO [Radeon 9500 Pro]
4e46 R300 [Radeon 9600 TX]
4e47 R300 GL [FireGL X1]
4e48 R350 [Radeon 9800 Series]
4e49 R350 [Radeon 9800]
4e4a R360 [Radeon 9800 XXL/XT]
1002 4e4a R360 [Radeon 9800 XT]
4e4b R350 GL [FireGL X2 AGP Pro]
4e50 RV350/M10 / RV360/M11 [Mobility Radeon 9600 (PRO) / 9700]
1025 005a TravelMate 290
1025 0064 Extensa 3000 series laptop: ATI RV360/M11 [Mobility Radeon 9700]
103c 088c NC8000 laptop

103c 0890 NC6000
laptop
144d c00c P35 notebook
1462 0311 MSI M510A
1734 1055 Amilo M1420W
4e51 RV350 [Radeon 9550/9600/X1050 Series]
4e52 RV350/M10 [Mobility Radeon 9500/9700 SE]
144d c00c P35 notebook
4e54 RV350/M10 GL [Mobility FireGL T2]
4e56 RV360/M12 [Mobility Radeon 9550]
4e64 R300 [Radeon 9700 PRO] (Secondary)
4e65 R300 [Radeon 9500 PRO] (Secondary)
1002 0003 Radeon R300 NE [Radeon 9500 Pro]
1681 0003 Hercules 3D Prophet 9500 PRO [Radeon 9500 Pro] (Secondary)
4e66 RV350 [Radeon 9600] (Secondary)
4e67 R300 GL [FireGL X1] (Secondary)
4e68 R350 [Radeon 9800 PRO] (Secondary)
4e69 R350 [Radeon 9800] (Secondary)
4e6a RV350 [Radeon 9800 XT] (Secondary)
1002 4e6a R360 [Radeon 9800 XT] (Secondary)
1002 4e71 M10 NQ [Radeon Mobility 9600]
4e71 RV350/M10 [Mobility Radeon 9600] (Secondary)
4f72 RV250 [Radeon 9000 Series]
4f73 RV250 [Radeon 9000 Series] (Secondary)
5044 All-In-Wonder 128 PCI
1002 0028 Rage 128 AIW
1002 0029 Rage 128 AIW
5046 Rage
4 [Rage 128 PRO AGP 4X TMDS]
1002 0004 Rage Fury Pro
1002 0008 Rage Fury Pro/Xpert 2000 Pro
1002 0014 Rage Fury Pro
1002 0018 Rage Fury Pro/Xpert 2000 Pro
1002 0028 Rage 128 Pro AIW AGP
1002 002a Rage 128 Pro AIW AGP
1002 0048 Rage Fury Pro
1002 2000 Rage Fury MAXX AGP 4x (TMDS) (VGA device)
1002 2001 Rage Fury MAXX AGP 4x (TMDS) (Extra device?!)
5050 Rage128 [Xpert 128 PCI]
1002 0008 Xpert 128
5052 Rage 128 PRO AGP 4X TMDS
5144 R100 [Radeon 7200 / All-In-Wonder Radeon]
1002 0008 Radeon 7000/Radeon VE
1002 0009 Radeon 7000/Radeon
1002 000a Radeon 7000/Radeon
1002 001a Radeon 7000/Radeon
1002 0029 Radeon AIW
1002 0038 Radeon 7000/Radeon

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	1002 0039  Radeon 7000/Radeon
	1002 008a  Radeon 7000/Radeon
	1002 00ba  Radeon 7000/Radeon
	1002 0139  Radeon 7000/Radeon
	1002 028a  Radeon 7000/Radeon
	1002 02aa  Radeon AIW
	1002 053a  Radeon 7000/Radeon
	5148  R200 GL [FireGL 8800]
	1002 010a  FireGL 8800 64Mb
	1002 0152  FireGL 8800
	128Mb
	1002 0162  FireGL 8700 32Mb
	1002 0172  FireGL 8700 64Mb
	514c  R200 [Radeon 8500/8500 LE]
	1002 003a  Radeon R200 QL [Radeon 8500 LE]
	1002 013a  Radeon 8500
	148c 2026  R200 QL [Radeon 8500 Evil Master II Multi Display Edition]
	1681 0010  Radeon 8500 [3D Prophet 8500 128Mb]
	174b 7149  Radeon 8500 LE
	1787 0f08  Radeon R200 QL [PowerMagic Radeon 8500]
	514d  R200 [Radeon 9100]
	5157  RV200 [Radeon 7500/7500 LE]
	1002 013a  Radeon 7500
	1002 0f2b  ALL-IN-WONDER VE PCI
	1002 103a  Dell Optiplex GX260
	1458 4000  RV200 QW [RADEON 7500 PRO MAYA AR]
	148c 2024  RV200 QW [Radeon 7500LE Dual Display]
	148c 2025  RV200 QW [Radeon 7500 Evil Master Multi Display Edition]
	148c 2036  RV200 QW [Radeon 7500 PCI Dual Display]
	174b 7146  RV200 QW [Radeon 7500 LE]
	174b 7147  Radeon 7500 LE
	174b 7161  Radeon RV200 QW [Radeon 7500 LE]
	17af 0202  RV200 QW [Excalibur Radeon 7500LE]
	5159  RV100 [Radeon 7000 / Radeon VE]
	1002 000a  Radeon 7000/Radeon VE
	1002 000b  Radeon
	7000
	1002 0038  Radeon 7000/Radeon VE
	1002 003a  Radeon 7000/Radeon VE
	1002 00ba  Radeon 7000/Radeon VE
	1002 013a  Radeon 7000/Radeon VE
	1002 0908  XVR-100 (supplied by Sun)
	# The IBM card doubles as an ATI PCI video adapter
	1014 029a  Remote Supervisor Adapter II (RSA2)
	1014 02c8  eServer xSeries server mainboard
	1028 016c  PowerEdge 1850 Embedded Radeon 7000/VE
	1028 016d  PowerEdge 2850 Embedded Radeon 7000-M
	1028 0170  PowerEdge 6850 Embedded Radeon 7000/VE
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1028 019a PowerEdge SC1425
103c 1292 Radeon 7000
1043 c00a A7000/T/64M
1458 4002 RV100 QY [RADEON 7000 PRO MAYA AV Series]
148c 2003 RV100 QY [Radeon 7000 Multi-Display Edition]
148c 2023 RV100 QY [Radeon 7000 Evil Master Multi-Display]
148c 2081 RV6DE
174b 0280 Radeon RV100 QY [Radeon 7000/VE]
174b 7112 Radeon VE 7000
174b 7c28 Radeon VE 7000 DDR
1787 0202 RV100 QY [Excalibur Radeon 7000]
17ee 1001 Radeon 7000 64MB DDR + DVI
515e ES1000
1028 01bb PowerEdge 1955 Embedded
ATI ES1000
1028 01df PowerEdge SC440
1028 01e6 PowerEdge 860
1028 01f0 PowerEdge R900 Embedded ATI ES1000
1028 0205 PowerEdge 2970 Embedded ATI ES1000
1028 020b PowerEdge T605 Embedded ATI ES1000
1028 020f PowerEdge R300 Embedded ATI ES1000
1028 0210 PowerEdge T300 Embedded ATI ES1000
1028 0221 PowerEdge R805 Embedded ATI ES1000
1028 0223 PowerEdge R905 Embedded ATI ES1000
1028 0225 PowerEdge T105 Embedded ATI ES1000
1028 023c PowerEdge R200 Embedded ATI ES1000
103c 1304 Integrity iLO2 Advanced KVM VGA [AD307A]
15d9 8680 X7DVL-E-O motherboard
15d9 9680 X7DBN Motherboard
8086 3476 S5000PSLSATA Server Board
5245 Rage 128 GL PCI
1002 0008 Xpert 128
1002 0028 Rage 128 AIW
1002 0029 Rage 128 AIW
1002 0068 Rage 128 AIW
5246 Rage 128 (Rage 4) series
1002 0004 Magnum/Xpert 128/Xpert 99
1002 0008 Rage 128 AGP 2x
1002 0028 Rage 128 AIW AGP
1002 0044 Rage Fury/Xpert 128/Xpert 2000
1002 0068 Rage 128 AIW AGP
1002 0448
Rage Fury
524b Rage 128 VR PCI
524c Rage 128 VR AGP
1002 0008 Xpert 99/Xpert 2000
1002 0088 Xpert 99
5346 Rage 128 SF/4x AGP 2x

1002 0048 RAGE 128 16MB VGA TVOUT AMC PAL
534d Rage 128 4X AGP 4x
1002 0008 Xpert 99/Xpert 2000
1002 0018 Xpert 2000
5354 Mach 64 VT
1002 5654 Mach 64 reference
5446 Rage 128 PRO Ultra AGP 4x
1002 0004 Rage Fury Pro
1002 0008 Rage Fury Pro/Xpert 2000 Pro
1002 0018 Rage Fury Pro/Xpert 2000 Pro
1002 0028 Rage 128 AIW Pro AGP
1002 0029 Rage 128 AIW
1002 002a Rage 128 AIW Pro AGP
1002 002b Rage 128 AIW
1002 0048 Xpert 2000 Pro
5452 Rage 128 PRO Ultra4XL VR-R AGP
1002 001c Rage 128 Pro 4XL
103c 1279 Rage 128 Pro 4XL
5460 RV370/M22 [Mobility Radeon X300]
1775 1100 CR11/VR11 Single Board Computer
5461 RV370/M22 [Mobility Radeon X300]
5462 RV380/M24C [Mobility Radeon X600 SE]
5464 RV370/M22 GL [Mobility FireGL V3100]
5549 R423 [Radeon X800 GTO]
554a R423 [Radeon X800 XT Platinum Edition]
554b
R423 [Radeon X800 GT/SE]
1002 0302 Radeon X800 SE
554d R430 [Radeon X800 XL]
1002 0322 All-In-Wonder X800 XL
1458 2124 GV-R80L256V-B (AGP)
554e R430 [All-In-Wonder X800 GT]
554f R430 [Radeon X800]
5550 R423 GL [FireGL V7100]
5551 R423 GL [FireGL V5100]
5569 R423 [Radeon X800 PRO] (Secondary)
556b R423 [Radeon X800 GT] (Secondary)
556d R430 [Radeon X800 XL] (Secondary)
1458 2125 GV-R80L256V-B (AGP)
556f R430 [Radeon X800] (Secondary)
5571 R423 GL [FireGL V5100] (Secondary)
564b RV410/M26 GL [Mobility FireGL V5000]
564f RV410/M26 [Mobility Radeon X700 XL]
5652 RV410/M26 [Mobility Radeon X700]
5653 RV410/M26 [Mobility Radeon X700]
1025 0080 Aspire 5024WLMi
103c 0940 Compaq NW8240 Mobile Workstation
5654 Mach64 VT [Video Xpression]

1002 5654 Mach64VT Reference
5655 264VT3 [Mach64 VT3]
5656 Mach64 VT4 [Video Xpression+]
5657 RV410 [Radeon X550 XTX / X700]
5830 RS300 Host Bridge
5831 RS300 Host Bridge
5832 RS300 Host Bridge
5833
RS300 Host Bridge
5834 RS300 [Radeon 9100 IGP]
5835 RS300M [Mobility Radeon 9100 IGP]
5838 RS300 AGP Bridge
5854 RS480 [Radeon Xpress 200 Series] (Secondary)
5874 RS480 [Radeon Xpress 1150] (Secondary)
5940 RV280 [Radeon 9200 PRO] (Secondary)
17af 2021 Excalibur Radeon 9250 (Secondary)
5941 RV280 [Radeon 9200] (Secondary)
1458 4019 Radeon 9200
174b 7c12 Radeon 9200
17af 200d Excalibur Radeon 9200
18bc 0050 GC-R9200-C3 (Secondary)
5944 RV280 [Radeon 9200 SE PCI]
5950 RS480/RS482/RS485 Host Bridge
1025 0080 Aspire 5024WLMMi
103c 280a DC5750 Microtower
103c 2a20 Pavilion t3030.de Desktop PC
103c 308b MX6125
1462 0131 MS-1013 Notebook
1462 7217 Aspire L250
5951 RX480/RX482 Host Bridge
5952 RD580 Host Bridge
5954 RS480 [Radeon Xpress 200 Series]
1002 5954 RV370 [Radeon Xpress 200G Series]
5955 RS480M [Mobility Radeon Xpress 200]
1002 5955 RS480 0x5955 [Radeon XPRESS 200M 5955 (PCIE)]
103c 308b MX6125
1462 0131
MS-1013 Notebook
5956 RD790 Host Bridge
5957 RX780/RX790 Host Bridge
1849 5957 A770CrossFire Motherboard
5958 RD780 Host Bridge
5960 RV280 [Radeon 9200 PRO]
17af 2020 Excalibur Radeon 9250
5961 RV280 [Radeon 9200]
1002 2f72 All-in-Wonder 9200 Series
1019 4c30 Radeon 9200 VIVO
12ab 5961 YUAN SMARTVGA Radeon 9200

1458 4018 Radeon 9200
174b 7c13 Radeon 9200
17af 200c Excalibur Radeon 9200
18bc 0050 Radeon 9200 Game Buster
18bc 0051 GC-R9200-C3
18bc 0053 Radeon 9200 Game Buster VIVO
5962 RV280 [Radeon 9200]
5964 RV280 [Radeon 9200 SE]
1002 5964 Radeon 9200 SE, 64-bit 128MB DDR, 200/166MHz
1043 c006 Radeon 9200 SE / TD / 128M
1458 4018 Radeon 9200 SE
1458 4032 Radeon 9200 SE 128MB
147b 6191 R9200SE-DT
148c 2073 CN-AG92E
174b 7c13 Radeon 9200 SE
1787 5964 Excalibur 9200SE VIVO 128M
17af 2012 Radeon 9200 SE Excalibur
18bc 0170 Sapphire Radeon 9200 SE 128MB Game Buster
18bc 0173 GC-R9200L(SE)-C3H [Radeon 9200 Game
Buster]
5965 RV280 GL [FireMV 2200 PCI]
5974 RS482/RS485 [Radeon Xpress 1100/1150]
103c 280a DC5750 Microtower
1462 7141 Aspire L250
5975 RS482M [Mobility Radeon Xpress 200]
5978 RX780/RD790 PCI to PCI bridge (external gfx0 port A)
1849 5957 A770CrossFire Motherboard
5979 RD790 PCI to PCI bridge (external gfx0 port B)
597a RD790 PCI to PCI bridge (PCI express gpp port A)
597b RX780/RD790 PCI to PCI bridge (PCI express gpp port B)
597c RD790 PCI to PCI bridge (PCI express gpp port C)
597d RX780/RD790 PCI to PCI bridge (PCI express gpp port D)
597e RD790 PCI to PCI bridge (PCI express gpp port E)
1849 5957 A770CrossFire Motherboard
597f RD790 PCI to PCI bridge (PCI express gpp port F)
1849 5957 A770CrossFire Motherboard
5980 RD790 PCI to PCI bridge (external gfx1 port A)
5981 RD790 PCI to PCI bridge (external gfx1 port B)
5982 RD790 PCI to PCI bridge (NB-SB link)
5a10 RD890 Northbridge only dual slot (2x16) PCI-e GFX Hydra part
5a11 RD890 Northbridge
only single slot PCI-e GFX Hydra part
5a12 RD890 Northbridge only dual slot (2x8) PCI-e GFX Hydra part
15d9 a811 H8DGU
5a13 RD890S/SR5650 Host Bridge
5a14 RD9x0/RX980 Host Bridge
5a15 RD890 PCI to PCI bridge (PCI express gpp port A)
5a16 RD890/RD9x0/RX980 PCI to PCI bridge (PCI Express GFX port 0)

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5a17  RD890/RD9x0 PCI to PCI bridge (PCI Express GFX port 1)
5a18  RD890/RD9x0/RX980 PCI to PCI bridge (PCI Express GPP Port 0)
 15d9 a811  H8DGU
5a19  RD890/RD9x0/RX980 PCI to PCI bridge (PCI Express GPP Port 1)
5a1a  RD890/RD9x0/RX980 PCI to PCI bridge (PCI Express GPP Port 2)
5a1b  RD890/RD9x0/RX980 PCI to PCI bridge (PCI Express GPP Port 3)
5a1c  RD890/RD9x0/RX980 PCI to PCI bridge (PCI Express GPP Port 4)
5a1d  RD890/RD9x0/RX980 PCI to PCI bridge (PCI Express GPP Port 5)
5a1e  RD890/RD9x0/RX980 PCI to PCI bridge (PCI Express GPP2 Port 0)
5a1f  RD890/RD990 PCI to PCI bridge (PCI Express GFX2 port 0)
 15d9 a811  H8DGU
5a20  RD890/RD990 PCI to PCI bridge (PCI
Express GFX2 port 1)
5a23  RD890S/RD990 I/O Memory Management Unit (IOMMU)
5a31  RC410 Host Bridge
5a33  RS400 Host Bridge
5a34  RS4xx PCI Express Port [ext gfx]
5a36  RC4xx/RS4xx PCI Express Port 1
5a37  RC4xx/RS4xx PCI Express Port 2
5a38  RC4xx/RS4xx PCI Express Port 3
5a39  RC4xx/RS4xx PCI Express Port 4
5a3f  RC4xx/RS4xx PCI Bridge [int gfx]
 1462 7217  Aspire L250
5a41  RS400 [Radeon Xpress 200]
5a42  RS400M [Radeon Xpress 200M]
5a61  RC410 [Radeon Xpress 200/1100]
5a62  RC410M [Mobility Radeon Xpress 200M]
5b60  RV370 [Radeon X300]
 1043 002a  Extreme AX300SE-X
 1043 032e  Extreme AX300/TD
 1458 2102  GV-RX30S128D (X300SE)
 1462 0400  RX300SE-TD128E (MS-8940 REV:200)
 1462 0402  RX300SE-TD128E (MS-8940)
 174b 0500  Radeon X300 (PCIE)
 196d 1086  X300SE HM
5b62  RV370 [Radeon X600/X600 SE]
5b63  RV370 [Radeon X300/X550/X1050 Series]
5b64  RV370 GL [FireGL V3100]
5b65  RV370 GL [FireMV 2200]
5b66  RV370X
5b70  RV370 [Radeon X300 SE]
# RX300SE-TD128E
 1462
0403  Radeon X300 SE 128MB DDR
 174b 0501  Radeon X300 SE
 196d 1087  Radeon X300 SE HyperMemory
5b72  RV380 [Radeon X300/X550/X1050 Series] (Secondary)
5b73  RV370 [Radeon X300/X550/X1050 Series] (Secondary)
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5b74 RV370 GL [FireGL V3100] (Secondary)
5b75 RV370 GL [FireMV 2200] (Secondary)
5c61 RV280/M9+ [Mobility Radeon 9200 AGP]
5c63 RV280/M9+ [Mobility Radeon 9200 AGP]
 1002 5c63 Apple iBook G4 2004
 144d c00c P30 notebook
5d44 RV280 [Radeon 9200 SE] (Secondary)
 1458 4019 Radeon 9200 SE (Secondary)
 1458 4032 Radeon 9200 SE 128MB
 147b 6190 R9200SE-DT (Secondary)
 174b 7c12 Radeon 9200 SE (Secondary)
 1787 5965 Excalibur 9200SE VIVO 128M (Secondary)
 17af 2013 Radeon 9200 SE Excalibur (Secondary)
 18bc 0171 Radeon 9200 SE 128MB Game Buster (Secondary)
 18bc 0172 GC-R9200L(SE)-C3H [Radeon 9200 Game Buster]
5d45 RV280 GL [FireMV 2200 PCI] (Secondary)
5d48 R423/M28 [Mobility Radeon X800 XT]
5d49 R423/M28 GL [Mobility FireGL V5100]
5d4a
R423/M28 [Mobility Radeon X800]
5d4d R480 [Radeon X850 XT Platinum Edition]
5d4e R480 [Radeon X850 SE]
5d4f R480 [Radeon X800 GTO]
5d50 R480 GL [FireGL V7200]
5d52 R480 [Radeon X850 XT]
 1002 0b12 PowerColor X850XT PCIe (Primary)
5d57 R423 [Radeon X800 XT]
5d6d R480 [Radeon X850 XT Platinum Edition] (Secondary)
5d6f R480 [Radeon X800 GTO] (Secondary)
5d72 R480 [Radeon X850 XT] (Secondary)
 1002 0b13 PowerColor X850XT PCIe (Secondary)
5d77 R423 [Radeon X800 XT] (Secondary)
5e48 RV410 GL [FireGL V5000]
5e49 RV410 [Radeon X700 Series]
5e4a RV410 [Radeon X700 XT]
5e4b RV410 [Radeon X700 PRO]
5e4c RV410 [Radeon X700 SE]
5e4d RV410 [Radeon X700]
 148c 2116 Bravo X700
5e4f RV410 [Radeon X700]
 1569 1e4f Radeon X550 XT
5e6b RV410 [Radeon X700 PRO] (Secondary)
5e6d RV410 [Radeon X700] (Secondary)
 148c 2117 Bravo X700 (Secondary)
5f57 R423 [Radeon X800 XT]
6600 Mars [Radeon HD 8670A/8670M/8750M]
 103c 1952 ProBook 455 G1
6601 Mars [Radeon

HD 8730M]
 103c 2100 FirePro M4100
6604 Opal XT [Radeon R7 M265/M365X/M465]
 1025 0776 Aspire V5 Radeon R7 M265
 103c 8006 FirePro M4170
 103c 814f Litho XT [Radeon R7 M365X]
 103c 82aa Litho XT [Radeon R7 M465]
 17aa 3643 Radeon R7 A360
6605 Opal PRO [Radeon R7 M260X]
 103c 2259 FirePro M4150
6606 Mars XTX [Radeon HD 8790M]
 1028 0684 FirePro W4170M
6607 Mars LE [Radeon HD 8530M / R5 M240]
6608 Oland GL [FirePro W2100]
 13cc 3d28 MXRT-2600
6610 Oland XT [Radeon HD 8670 / R7 250/350]
 1019 0030 Radeon HD 8670
 1028 2120 Radeon R7 250
 1028 2322 Radeon R7 250
 1462 2910 Radeon HD 8670
 1462 2911 Radeon HD 8670
 148c 7350 Radeon R7 350
 1642 3c81 Radeon HD 8670
 1642 3c91 Radeon HD 8670
 1642 3f09 Radeon R7 350
6611 Oland [Radeon HD 8570 / R7 240/340 / Radeon 520 OEM]
 1028 210b Radeon R5 240 OEM
 1642 1869 Radeon 520 OEM
 174b 4248 Radeon R7 240 OEM
 174b a240 Radeon R7 240 OEM
 174b d340 Radeon R7 340 OEM
 1b0a 90d3 Radeon R7
240 OEM
6613 Oland PRO [Radeon R7 240/340]
 148c 7340 Radeon R7 340
 1682 7240 R7 240 2048 MB
6631 Oland
6640 Saturn XT [FirePro M6100]
 106b 014b Tropo XT [Radeon R9 M380 Mac Edition]
6641 Saturn PRO [Radeon HD 8930M]
6646 Bonaire XT [Radeon R9 M280X]
6647 Saturn PRO/XT [Radeon R9 M270X/M280X]
 1043 223d N551ZU laptop Radeon R9 M280X
6649 Bonaire [FirePro W5100]
 1002 0b0c FirePro W4300
 103c 0b0c Bonaire [FirePro W4300]
 103c 230c FirePro W5100
 13cc 3d2a MXRT-5600

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6650  Bonaire
6651  Bonaire
6658  Bonaire XTX [Radeon R7 260X/360]
 1043 04d3  AMD Radeon R7 260X
 148c 0907  Radeon R7 360
 1682 0907  Radeon R7 360
 1682 7360  Radeon R7 360
665c  Bonaire XT [Radeon HD 7790/8770 / R7 360 / R9 260/360 OEM]
 1043 0452  Radeon HD 7790 DirectCU II OC
# R7790-1GD5/OC
 1462 2930  Radeon HD 7790 OC
 1462 2932  Radeon HD 8770
 1462 2934  Radeon R9 260 OEM
 1462 2938  Radeon R9 360 OEM
 148c 0907  Radeon R7 360
 148c 9260  Radeon R9 260 OEM
 148c 9360
 Radeon R9 360 OEM
 1682 0907  Radeon R7 360
# FX-779A-CDB4 / FX-779A-CDBC
 1682 3310  Radeon HD 7790 Black Edition 2 GB
# 100356OCL / 11210-01-20G
 174b e253  Radeon HD 7790 Dual-X OC
 1787 2329  Radeon HD 7790 TurboDuo
665d  Bonaire [Radeon R7 200 Series]
665f  Tobago PRO [Radeon R7 360 / R9 360 OEM]
 1028 0b04  Radeon R9 360 OEM
 1462 2938  Radeon R9 360 OEM
 1462 3271  Radeon R9 360 OEM
 1682 7360  Radeon R7 360
6660  Sun XT [Radeon HD 8670A/8670M/8690M / R5 M330 / M430 / Radeon 520 Mobile]
 1028 05ea  Radeon HD 8670M
 1028 06bf  Radeon R5 M335
 103c 1970  Radeon HD 8670M
 103c 80be  Radeon R5 M330
 103c 8136  Radeon R5 M330
 103c 8329  Radeon R7 M520
 17aa 3633  Radeon R5 A330
 17aa 3804  Radeon R5 M330
 17aa 3809  Radeon R5 M330
 17aa 381a  Radeon R5 M430
 17aa 390c  Radeon R5 M330
6663  Sun PRO [Radeon HD 8570A/8570M]
 1025 0846  Radeon HD 8570A
 17aa 3805  Radeon HD 8570M
6664  Jet XT [Radeon R5 M240]
6665  Jet PRO [Radeon R5 M230 / R7 M260DX / Radeon
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520 Mobile]
 17aa 1309  Z50-75 Radeon R7 M260DX
 17aa 368f  Radeon R5 A230
6667  Jet ULT [Radeon R5 M230]
666f  Sun LE [Radeon HD 8550M / R5 M230]
66a0  Vega 20 [Radeon Instinct]
66a1  Vega 20
66a2  Vega 20
66a3  Vega 20
66a7  Vega 20 [Radeon Pro Vega 20]
66af  Vega 20 [Radeon VII]
6704  Cayman PRO GL [FirePro V7900]
6707  Cayman LE GL [FirePro V5900]
6718  Cayman XT [Radeon HD 6970]
6719  Cayman PRO [Radeon HD 6950]
671c  Antilles [Radeon HD 6990]
671d  Antilles [Radeon HD 6990]
671f  Cayman CE [Radeon HD 6930]
6720  Blackcomb [Radeon HD 6970M/6990M]
 1028 048f  Radeon HD 6990M
 1028 0490  Alienware M17x R3 Radeon HD 6970M
 1028 04a4  FirePro M8900
 1028 04ba  Radeon HD 6990M
 1028 053f  FirePro M8900
 106b 0b00  Radeon HD 6970M
 1558 5102  Radeon HD 6970M
 1558 5104  Radeon HD 6990M
 1558 7201  Radeon HD 6990M
 174b e188  Radeon HD 6970M
6738  Barts XT [Radeon HD 6870]
# HD-687A-ZDFC
 1682 3103  Radeon HD 8670
 1787 201a  Barts XT [Radeon HD 6870 X2]
 1787
201b  Barts XT [Radeon HD 6870 X2]
6739  Barts PRO [Radeon HD 6850]
 1043 03b4  EAH6850 [Radeon HD 6850]
673e  Barts LE [Radeon HD 6790]
 148c 7720  Radeon HD 7720 OEM
6740  Whistler [Radeon HD 6730M/6770M/7690M XT]
 1019 238c  Radeon HD 6730M
 1019 238e  Radeon HD 6730M
 1019 2391  Radeon HD 6730M
 1019 2392  Radeon HD 6770M
 1028 04a3  Precision M4600
 1028 053e  FirePro M5950
 103c 1630  FirePro M5950
 103c 1631  FirePro M5950
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103c 164b Radeon HD 6730M
103c 164e Radeon HD 6730M
103c 1657 Radeon HD 6770M
103c 1658 Radeon HD 6770M
103c 165a Radeon HD 6770M
103c 165b Radeon HD 6770M
103c 1688 Radeon HD 6770M
103c 1689 Radeon HD 6770M
103c 168a Radeon HD 6770M
103c 185e Radeon HD 7690M XT
103c 3388 Radeon HD 6770M
103c 3389 Radeon HD 6770M
103c 3582 Radeon HD 6770M
103c 366c Radeon HD 6730M
1043 1d02 Radeon HD 6730M
1043 1d12 Radeon HD 6730M
104d 9084 Radeon HD 6730M
104d 9085 Radeon HD 6730M
144d b074 Radeon
HD 6730M
144d b077 Radeon HD 6730M
144d b084 Radeon HD 6730M
144d b088 Radeon HD 6730M
17aa 3982 Radeon HD 6730M
6741 Whistler [Radeon HD 6630M/6650M/6750M/7670M/7690M]
1019 238e Radeon HD 6650M
1019 238f Radeon HD 6650M
1025 0379 Radeon HD 6650M
1025 037b Radeon HD 6650M
1025 037e Radeon HD 6650M
1025 0382 Radeon HD 6650M
1025 0384 Radeon HD 6650M
1025 0385 Radeon HD 6650M
1025 0386 Radeon HD 6650M
1025 0387 Radeon HD 6650M
1025 0388 Radeon HD 6650M
1025 0442 Radeon HD 6650M
1025 0451 Radeon HD 6650M
1025 0489 Radeon HD 6650M
1025 048b Radeon HD 6650M
1025 048c Radeon HD 6650M
1025 050a Radeon HD 6650M
1025 050b Radeon HD 6650M
1025 050c Radeon HD 6650M
1025 050e Radeon HD 6650M
1025 050f Radeon HD 6650M
1025 0513 Radeon HD 6650M
1025 0514 Radeon HD 6650M

1025 0515 Radeon HD 6650M
1025 0516 Radeon HD 6650M
1025 051e Radeon HD 6650M
1025 051f Radeon HD 6650M
1025 0520 Radeon HD 6650M
1025
0521 Radeon HD 6650M
1025 052a Radeon HD 6650M
1025 0555 Radeon HD 6650M
1025 0556 Radeon HD 6650M
1025 055d Radeon HD 6650M
1025 055e Radeon HD 6650M
1025 056d Radeon HD 6650M
1025 059a Radeon HD 6650M
1025 059b Radeon HD 6650M
1025 059e Radeon HD 6650M
1025 059f Radeon HD 6650M
1025 0600 Radeon HD 6650M
1025 0605 Radeon HD 6650M
1025 0606 Radeon HD 6650M
1025 0619 Radeon HD 6650M
1028 04c1 Radeon HD 6630M
1028 04c5 Radeon HD 6630M
1028 04cd Radeon HD 6630M
1028 04d7 Radeon HD 6630M
1028 04d9 Radeon HD 6630M
1028 052d Radeon HD 6630M
103c 1617 Radeon HD 6650M
103c 1646 Radeon HD 6750M
103c 1647 Radeon HD 6650M
103c 164b Radeon HD 6650M
103c 164e Radeon HD 6650M
103c 1688 Radeon HD 6750M
103c 1689 Radeon HD 6750M
103c 168a Radeon HD 6750M
103c 1860 Radeon HD 7690M
103c 3385 Radeon HD 6630M
103c 3560 Radeon HD 6750M
103c 358d Radeon HD 6750M
103c 3590 Radeon HD 6750M
103c 3593 Radeon
HD 6750M
103c 366c Radeon HD 6650M
1043 1cd2 Radeon HD 6650M
1043 2121 Radeon HD 6650M
1043 2122 Radeon HD 6650M
1043 2123 Radeon HD 6650M
1043 2125 Radeon HD 7670M

1043 2127 Radeon HD 7670M
104d 907b Radeon HD 6630M
104d 9080 Radeon HD 6630M
104d 9081 Radeon HD 6630M
106b 00e2 MacBookPro8,2 [Core i7, 15", Late 2011]
1179 fd63 Radeon HD 6630M
1179 fd65 Radeon HD 6630M
144d c093 Radeon HD 6650M
144d c0ac Radeon HD 6650M
144d c0b3 Radeon HD 6750M
144d c539 Radeon HD 6630M
144d c609 Radeon HD 6630M
152d 0914 Radeon HD 6650M
17aa 21e1 Radeon HD 6630M
17aa 3970 Radeon HD 6650M
17aa 3976 Radeon HD 6650M
1854 0907 Radeon HD 6650M
6742 Whistler LE [Radeon HD 6610M/7610M]
1002 6570 Turks [Radeon HD 6570]
1019 2393 Radeon HD 6610M
1043 1d82 K53SK Laptop Radeon HD 7610M
1179 fb22 Radeon HD 7610M
1179 fb23 Radeon HD 7610M
1179 fb27 Radeon HD 7610M
1179 fb2a Radeon HD 7610M
1179 fb2c Radeon HD 7610M
1179
fb30 Radeon HD 7610M
1179 fb31 Radeon HD 7610M
1179 fb32 Radeon HD 7610M
1179 fb38 Radeon HD 7610M
1179 fb39 Radeon HD 7610M
1179 fb3a Radeon HD 7610M
1179 fb3b Radeon HD 7610M
1179 fb40 Radeon HD 7610M
1179 fb41 Radeon HD 7610M
1179 fb47 Radeon HD 7610M
1179 fb48 Radeon HD 7610M
1179 fb49 Radeon HD 7610M
1179 fb51 Radeon HD 7610M
1179 fb52 Radeon HD 7610M
1179 fb53 Radeon HD 7610M
1179 fb56 Radeon HD 7610M
1179 fb81 Radeon HD 7610M
1179 fb82 Radeon HD 7610M
1179 fb83 Radeon HD 7610M
1179 fc56 Radeon HD 7610M
1179 fcd4 Radeon HD 7610M

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 1179 fcee  Radeon HD 7610M
 1458 6570  Turks [Radeon HD 6570]
 1462 6570  Turks [Radeon HD 6570]
 148c 6570  Turks [Radeon HD 6570]
 1682 6570  Turks [Radeon HD 6570]
 174b 5570  Turks [Radeon HD 5570]
 174b 6570  Turks [Radeon HD 6570]
 174b 7570  Turks [Radeon HD 7570]
 174b 8510  Turks [Radeon HD 8510]
 174b 8570  Turks [Radeon HD 8570]
 1787 6570  Turks [Radeon HD 6570]
 17af
6570  Turks [Radeon HD 6570]
 8086 2111  Radeon HD 6625M
6743  Whistler [Radeon E6760]
6749  Turks GL [FirePro V4900]
 15c3 2b06  MED-X4900
674a  Turks GL [FirePro V3900]
 13cc 3d22  MXRT-2500
 15c3 0106  MED-X3900
6750  Onega [Radeon HD 6650A/7650A]
 1462 2670  Radeon HD 6670A
 17aa 3079  Radeon HD 7650A
 17aa 307a  Radeon HD 6650A
 17aa 3087  Radeon HD 7650A
 17aa 3618  Radeon HD 6650A
 17aa 3623  Radeon HD 6650A
 17aa 3627  Radeon HD 6650A
6751  Turks [Radeon HD 7650A/7670A]
 1028 0548  Radeon HD 7650A
 1462 2671  Radeon HD 7670A
 1462 2672  Radeon HD 7670A
 1462 2680  Radeon HD 7650A
 1462 2681  Radeon HD 7650A
 17aa 3087  Radeon HD 7650A
6758  Turks XT [Radeon HD 6670/7670]
 1028 0b0e  Radeon HD 6670
 103c 6882  Radeon HD 6670
 1462 250a  Radeon HD 7670
 148c 7670  Radeon HD 7670
 1545 7670  Radeon HD 7670
 1682 3300  Radeon HD 7670
 174b 7670  Radeon HD 7670
 174b e181  Radeon HD 6670
 1787 2309  Radeon HD 6670
6759  Turks PRO [Radeon HD 6570/7570/8550]
 103c
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3130 Radeon HD 6570
 1043 0403 Radeon HD 6570
 1462 2500 Radeon HD 6570
 1462 2509 Radeon HD 7570
 148c 7570 Radeon HD 7570
 1642 3a67 Radeon HD 6570
 1682 3280 Radeon HD 7570
 1682 3530 Radeon HD 8550
 174b 7570 Radeon HD 7570
 174b e142 Radeon HD 6570
 174b e181 Radeon HD 6570
 1b0a 908f Radeon HD 6570
 1b0a 9090 Radeon HD 6570
 1b0a 9091 Radeon HD 6570
 1b0a 9092 Radeon HD 6570
 1b0a 909e Radeon HD 6570
 1b0a 90b5 Radeon HD 7570
 1b0a 90b6 Radeon HD 7570
675b Turks [Radeon HD 7600 Series]
675d Turks PRO [Radeon HD 7570]
675f Turks LE [Radeon HD 5570/6510/7510/8510]
 148c 6510 Radeon HD 6510
 148c 6530 Radeon HD 6530
 148c 7510 Radeon HD 7510
 1545 7570 Radeon HD 7570
 174b 6510 Radeon HD 6510
 174b 7510 Radeon HD 7510
 174b 8510 Radeon HD 8510
 1787 2012 Radeon HD 5570 2GB GDDR3
 1787 2314 Radeon HD 5570 1GB DDR2/GDDR3
6760 Seymour [Radeon HD 6400M/7400M Series]
 1002 0124 Radeon HD 6470M
 1002 0134 Radeon
HD 6470M
 1019 238b Radeon HD 6470M
 1019 238e Radeon HD 6470M
 1019 2390 Radeon HD 6470M
 1019 9985 Radeon HD 6470M
 1028 04c1 Radeon HD 6470M
 1028 04c3 Radeon HD 6470M
 1028 04ca Radeon HD 6470M
 1028 04cb Radeon HD 6470M
 1028 04cc Vostro 3350
 1028 04d1 Radeon HD 6470M
 1028 04d3 Radeon HD 6470M
 1028 04d7 Radeon HD 6470M
 1028 0502 Radeon HD 6470M
 1028 0503 Radeon HD 6470M

1028 0506 Radeon HD 6470M
1028 0507 Radeon HD 6470M
1028 0514 Radeon HD 6470M
1028 051c Radeon HD 6450M
1028 051d Radeon HD 6450M
103c 161a Radeon HD 6470M
103c 161b Radeon HD 6470M
103c 161e Radeon HD 6470M
103c 161f Radeon HD 6470M
103c 1622 Radeon HD 6450M
103c 1623 Radeon HD 6450M
103c 164a Radeon HD 6470M
103c 164d Radeon HD 6470M
103c 1651 Radeon HD 6470M
103c 1656 Radeon HD 6490M
103c 1658 Radeon HD 6490M
103c 1659 Radeon HD 6490M
103c 165b Radeon HD 6490M
103c 165d Radeon HD 6470M
103c 165f Radeon HD 6470M
103c
1661 Radeon HD 6470M
103c 1663 Radeon HD 6470M
103c 1665 Radeon HD 6470M
103c 1667 Radeon HD 6470M
103c 1669 Radeon HD 6470M
103c 166b Radeon HD 6470M
103c 166c Radeon HD 6470M
103c 166e Radeon HD 6470M
103c 1670 Radeon HD 6470M
103c 1672 Radeon HD 6470M
103c 167a Radeon HD 6470M
103c 167b Radeon HD 6470M
103c 167d Radeon HD 6490M
103c 167f Radeon HD 6490M
103c 168c Radeon HD 6470M
103c 168f Radeon HD 6470M
103c 1694 Radeon HD 6470M
103c 1696 Radeon HD 6470M
103c 1698 Radeon HD 6470M
103c 169a Radeon HD 6470M
103c 169c Radeon HD 6490M
103c 1855 Radeon HD 7450M
103c 1859 Radeon HD 7450M
103c 185c Radeon HD 7450M
103c 185d Radeon HD 7470M
103c 185f Radeon HD 7470M
103c 1863 Radeon HD 7450M

103c 355c Radeon HD 6490M
103c 355f Radeon HD 6490M
103c 3563 Radeon HD 6470M
103c 3565 Radeon HD 6470M
103c 3567 Radeon HD 6470M
103c 3569 Radeon HD 6470M
103c 3581 Radeon HD 6490M
103c 3584 Radeon
HD 6470M
103c 358c Radeon HD 6490M
103c 358f Radeon HD 6490M
103c 3592 Radeon HD 6490M
103c 3596 Radeon HD 6490M
103c 366b Radeon HD 6470M
103c 3671 FirePro M3900
103c 3673 Radeon HD 6470M
1043 100a Radeon HD 7470M
1043 100c Radeon HD 6470M
1043 101b Radeon HD 6470M
1043 101c Radeon HD 6470M
1043 102a Radeon HD 7450M
1043 102c Radeon HD 6470M
1043 104b Radeon HD 7470M
1043 105d Radeon HD 7470M
1043 106b Radeon HD 7470M
1043 106d Radeon HD 7470M
1043 107d Radeon HD 7470M
1043 1cb2 Radeon HD 6470M
1043 1d22 Radeon HD 6470M
1043 1d32 Radeon HD 6470M
1043 2001 Radeon HD 6470M
1043 2002 Radeon HD 7470M
1043 2107 Radeon HD 7470M
1043 2108 Radeon HD 7470M
1043 2109 Radeon HD 7470M
1043 84a0 Radeon HD 6470M
1043 84e9 Radeon HD 6470M
1043 8515 Radeon HD 7470M
1043 8517 Radeon HD 7470M
1043 855a Radeon HD 7470M
104d 907b Radeon HD 6470M
104d 9081 Radeon HD 6470M
104d 9084 Radeon HD 6470M
104d
9085 Radeon HD 6470M
1179 0001 Radeon HD 6450M
1179 0003 Radeon HD 6450M
1179 0004 Radeon HD 6450M

1179 fb22 Radeon HD 7470M
1179 fb23 Radeon HD 7470M
1179 fb2c Radeon HD 7470M
1179 fb31 Radeon HD 7470M
1179 fb32 Radeon HD 7470M
1179 fb33 Radeon HD 7470M
1179 fb38 Radeon HD 7470M
1179 fb39 Radeon HD 7470M
1179 fb3a Radeon HD 7470M
1179 fb40 Radeon HD 7470M
1179 fb41 Radeon HD 7470M
1179 fb42 Radeon HD 7470M
1179 fb47 Radeon HD 7470M
1179 fb48 Radeon HD 7470M
1179 fb51 Radeon HD 7470M
1179 fb52 Radeon HD 7470M
1179 fb53 Radeon HD 7470M
1179 fb81 Radeon HD 7470M
1179 fb82 Radeon HD 7470M
1179 fb83 Radeon HD 7470M
1179 fc51 Radeon HD 6470M
1179 fc52 Radeon HD 7470M
1179 fc56 Radeon HD 7470M
1179 fcd3 Radeon HD 7470M
1179 fcd4 Radeon HD 7470M
1179 fcee Radeon HD 7470M
1179 fdee Radeon HD 7470M
144d b074 Radeon HD 6470M
144d b084 Radeon HD 6470M
144d c095 Radeon HD 6470M
144d c0b3 Radeon
HD 6490M
144d c538 Radeon HD 6470M
144d c581 Radeon HD 6470M
144d c589 Radeon HD 6470M
144d c609 Radeon HD 7470M
144d c625 Radeon HD 7470M
144d c636 Radeon HD 7450M
1462 10ac Radeon HD 6470M
152d 0916 Radeon HD 6470M
17aa 21e5 Radeon HD 6470M
17aa 3900 Radeon HD 7450M
17aa 3902 Radeon HD 7450M
17aa 3969 Radeon HD 6470M
17aa 3970 Radeon HD 7450M
17aa 3976 Radeon HD 6470M
17aa 397b Radeon HD 6470M
17aa 397d Radeon HD 6470M

17aa 5101 Radeon HD 7470M
17aa 5102 Radeon HD 7450M
17aa 5103 Radeon HD 7450M
17aa 5106 Radeon HD 7450M
1854 0897 Radeon HD 6470M
1854 0900 Radeon HD 6470M
1854 0908 Radeon HD 6470M
1854 2015 Radeon HD 6470M
6761 Seymour LP [Radeon HD 6430M]
6763 Seymour [Radeon E6460]
6764 Seymour [Radeon HD 6400M Series]
6765 Seymour [Radeon HD 6400M Series]
6766 Caicos
6767 Caicos
6768 Caicos
6770 Caicos [Radeon HD 6450A/7450A]
17aa 308d Radeon HD 7450A
17aa 3623 Radeon HD 6450A
17aa 3627
Radeon HD 6450A
17aa 3629 Radeon HD 6450A
17aa 363c Radeon HD 6450A
17aa 3658 Radeon HD 7470A
6771 Caicos XTX [Radeon HD 8490 / R5 235X OEM]
6772 Caicos [Radeon HD 7450A]
6778 Caicos XT [Radeon HD 7470/8470 / R5 235/310 OEM]
1019 0024 Radeon HD 7470
1019 0027 Radeon HD 8470
1028 2120 Radeon HD 7470
1462 b491 Radeon HD 8470
1462 b492 Radeon HD 8470
1462 b493 Radeon HD 8470 OEM
1462 b499 Radeon R5 235 OEM
1642 3c65 Radeon HD 8470
1642 3c75 Radeon HD 8470
174b 8145 Radeon HD 8470
174b d145 Radeon R5 235 OEM
174b d335 Radeon R5 310 OEM
174b e145 Radeon HD 7470
17aa 3694 Radeon R5 A220
6779 Caicos [Radeon HD 6450/7450/8450 / R5 230 OEM]
1019 0016 Radeon HD 6450
1019 0017 Radeon HD 6450
1019 0018 Radeon HD 6450
1028 2120 Radeon HD 6450
103c 2128 Radeon HD 6450
103c 2aee Radeon HD 7450A
1092 6450 Radeon HD 6450

1462 2125 Radeon HD 6450
1462 2346 Radeon HD 7450
1462 2490 Radeon HD 6450
1462 2494 Radeon
HD 6450
1462 2496 Radeon HD 7450
148c 7450 Radeon HD 7450
148c 8450 Radeon HD 8450 OEM
1545 7470 Radeon HD 7470
1642 3a65 Radeon HD 6450
1642 3a66 Radeon HD 7450
1642 3a75 Radeon HD 6450
1642 3a76 Radeon HD 7450
1682 3200 Radeon HD 7450
174b 7450 Radeon HD 7450
174b e127 Radeon HD 6450
174b e153 Radeon HD 6450
174b e164 Radeon HD 6450 1 GB DDR3
174b e180 Radeon HD 6450
174b e201 Radeon HD 6450
17af 8450 Radeon HD 8450 OEM
1b0a 9096 Radeon HD 6450
1b0a 9097 Radeon HD 6450
1b0a 90a8 Radeon HD 6450A
1b0a 90b1 Radeon HD 6450
1b0a 90b3 Radeon HD 7450A
1b0a 90bb Radeon HD 7450A
677b Caicos PRO [Radeon HD 7450]
6780 Tahiti XT GL [FirePro W9000]
6784 Tahiti [FirePro Series Graphics Adapter]
6788 Tahiti [FirePro Series Graphics Adapter]
678a Tahiti PRO GL [FirePro Series]
1002 030c FirePro W8000
1002 0310 FirePro S9000
1002 0420 Radeon Sky 700
1002 0422 Radeon Sky 900
1002 0710 FirePro S9050
1002 0b0e
FirePro S10000 Passive
1002 0b2a FirePro S10000
1028 030c FirePro W8000
1028 0710 FirePro S9000
6798 Tahiti XT [Radeon HD 7970/8970 OEM / R9 280X]
1002 3000 Tahiti XT2 [Radeon HD 7970 GHz Edition]
1002 3001 Tahiti XTL [Radeon R9 280X]
1002 4000 Radeon HD 8970 OEM
1043 041c HD 7970 DirectCU II
1043 0420 HD 7970 DirectCU II TOP

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  1043 0444  HD 7970 DirectCU II TOP
  1043 0448  HD 7970 DirectCU II TOP
  1043 044a  Tahiti XT2 [Matrix HD 7970]
  1043 044c  Tahiti XT2 [Matrix HD 7970 Platinum]
  1043 3001  Tahiti XTL [ROG Matrix R9 280X]
  1043 3006  Tahiti XTL [Radeon R9 280X DirectCU II TOP]
  1043 9999  ARES II
  106b 0127  FirePro D700
  106b 0128  FirePro D700
  1092 3000  Tahiti XT2 [Radeon HD 7970 GHz Edition]
  1458 2261  Tahiti XT2 [Radeon HD 7970 GHz Edition OC]
# GV-R928XOC-3GD
  1458 3001  Tahiti XTL [Radeon R9 280X OC]
  1462 2774  HD 7970 TwinFrozr III Boost Edition OC
  1682 3001  Tahiti XTL [Radeon R9 280X]
  1682 3211  Double D HD 7970 Black Edition
#
 FX-797A-TNBC
  1682 3213  HD 7970 Black Edition
  1682 3214  Double D HD 7970
  1787 201c  HD 7970 IceQ X²
# Radeon HD 7970 X2
  1787 2317  Radeon HD 7990
  1787 3000  Tahiti XT2 [Radeon HD 7970 GHz Edition]
 679a  Tahiti PRO [Radeon HD 7950/8950 OEM / R9 280]
  1002 0b01  Radeon HD 8950 OEM
  1002 3000  Tahiti PRO2 [Radeon HD 7950 Boost]
  1462 3000  Radeon HD 8950 OEM
  174b a003  Radeon R9 280
 679b  Malta [Radeon HD 7990/8990 OEM]
  1002 0b28  Radeon HD 8990 OEM
  1002 0b2a  Radeon HD 7990
  1462 8036  Radeon HD 8990 OEM
  148c 8990  Radeon HD 8990 OEM
 679e  Tahiti LE [Radeon HD 7870 XT]
  106b 0125  FirePro D500
  106b 0126  FirePro D500
  1787 2328  Radeon HD 7870 Black Edition 2 GB GDDR5 [2GBD5-2DHV3E]
 679f  Tahiti
 67a0  Hawaii XT GL [FirePro W9100]
  1002 0335  FirePro S9150
  1002 0735  FirePro S9170
  1028 031f  FirePro W9100
  1028 0335  FirePro S9150
 67a1  Hawaii PRO GL [FirePro W8100]
  1002 0335  FirePro S9100
  1028 0335  FirePro S9100
 67a2  Hawaii GL
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67a8 Hawaii
67a9
 Hawaii
67aa Hawaii
67b0 Hawaii XT / Grenada XT [Radeon R9 290X/390X]
 1028 0b00 Grenada XT [Radeon R9 390X]
 103c 6566 Radeon R9 390X
 1043 046a R9 290X DirectCU II
 1043 046c R9 290X DirectCU II OC
 1043 0474 Matrix R9 290X Platinum
 1043 0476 ARES III
 1043 04d7 Radeon R9 390X
 1043 04db Radeon R9 390X
 1043 04df Radeon R9 390X
 1043 04e9 Radeon R9 390X
 1458 227c R9 290X WindForce 3X OC
 1458 2281 R9 290X WindForce 3X OC
 1458 228c R9 290X WindForce 3X
 1458 228d R9 290X WindForce 3X OC
 1458 2290 R9 290X WindForce 3X
 1458 22bc Radeon R9 390X
 1458 22c1 Grenada PRO [Radeon R9 390]
 1462 2015 Radeon R9 390X
 1462 3070 R9 290X Lightning
 1462 3071 R9 290X Lightning
 1462 3072 R9 290X Lightning LE
 1462 3080 R9 290X Gaming
 1462 3082 R9 290X Gaming OC
 148c 2347 Devil 13 Dual Core R9 290X
 148c 2357 Grenada XT [Radeon R9 390X]
 1682 9290 Double Dissipation R9 290X
 1682 9395 Grenada XT [Radeon R9 390X]
 174b 0e34
Radeon R9 390X
 174b e282 Vapor-X R9 290X Tri-X OC
 174b e285 R9 290X Tri-X OC
 174b e324 Grenada XT2 [Radeon R9 390X]
 1787 2020 R9 290X IceQ X² Turbo
 1787 2357 Grenada XT [Radeon R9 390X]
67b1 Hawaii PRO [Radeon R9 290/390]
 1043 04dd STRIX R9 390
 148c 2358 Radeon R9 390
 174b e324 Sapphire Nitro R9 390
67b9 Vesuvius [Radeon R9 295X2]
67be Hawaii LE
67c0 Ellesmere [Radeon Pro WX 7100 Mobile]
67c2 Ellesmere [Radeon Pro V7300X / V7350x2]
67c4 Ellesmere [Radeon Pro WX 7100]

1002 0336 Radeon Pro Duo
1002 1336 Radeon Pro Duo
67c7 Ellesmere [Radeon Pro WX 5100]
67ca Ellesmere [Polaris10]
67cc Ellesmere [Polaris10]
67cf Ellesmere [Polaris10]
67d0 Ellesmere [Radeon Pro V7300X / V7350x2]
67df Ellesmere [Radeon RX 470/480/570/570X/580/580X/590]
1002 0b37 Radeon RX 480
1028 1722 Radeon RX 570X
1028 1723 Radeon RX 580X
1043 04a8 Radeon RX 480
1043 04b0 Radeon RX 470
1043 04fb Radeon RX 480
1043 04fd Radeon RX 480 8GB
1043 056a
Radeon RX 590
106b 0161 Radeon Pro 580
106b 0162 Radeon Pro 575
106b 0163 Radeon Pro 570
1458 22f0 Radeon RX 570
1458 22f7 Radeon RX 570 Gaming 4G
1462 3411 Radeon RX 470
1462 3413 Radeon RX 480 Gaming X 8GB
1462 3416 Radeon RX 570
1462 3418 Radeon RX 580 Armor 4G OC
1462 341e Radeon RX 570 Armor 4G OC
1462 8a92 Radeon RX 580
148c 2372 Radeon RX 480 [Red Dragon]
148c 2373 Radeon RX 470
1682 9470 Radeon RX 470
1682 9480 Radeon RX 480
1682 9588 Radeon RX 580 XTR
1682 c570 Radeon RX 570
174b e347 Radeon RX 470/480
174b e349 Radeon RX 470
1787 a470 Radeon RX 470
1787 a480 Radeon RX 480
1849 5001 Phantom Gaming X RX 580 OC
1849 5030 Phantom Gaming D Radeon RX580 8G OC
1da2 e353 Radeon RX 570 Pulse 4GB
1da2 e366 Nitro+ Radeon RX 570/580/590
67e0 Baffin [Radeon Pro WX 4170]
103c 8270 Radeon Pro WX 4170
103c 8272 Radeon Pro WX 4170
67e1 Baffin [Polaris11]
67e3 Baffin [Radeon Pro WX 4100]
67e8 Baffin [Radeon

Pro WX 4130/4150]
1028 075d Radeon Pro WX 4150
1028 07b0 Radeon Pro WX 4130/4150
1028 07b1 Radeon Pro WX 4130
1028 175d Radeon Pro WX 4150
1028 17b0 Radeon Pro WX 4130/4150
1028 17b1 Radeon Pro WX 4130
103c 8275 Radeon Pro WX 4150
103c 8277 Radeon Pro WX 4150
67e9 Baffin [Polaris11]
67eb Baffin [Radeon Pro V5300X]
67ef Baffin [Radeon RX 460/560D / Pro 450/455/460/555/555X/560/560X]
1028 1703 RX 560D OEM OC 2 GB
103c 3421 Radeon RX 460
106b 0160 Radeon Pro 460
106b 0166 Radeon Pro 455
106b 0167 Radeon Pro 450
106b 0179 Radeon Pro 560
106b 017a Radeon Pro 555
106b 018f Radeon Pro 560X
106b 0190 Radeon Pro 555X
1642 1727 Polaris 21 XL [Radeon RX 560D]
1682 956d Polaris 21 XL [Radeon RX 560D]
67ff Baffin [Radeon RX 550 640SP / RX 560/560X]
1002 0b04 Radeon RX 560
1028 1721 Radeon RX 560X
1028 1726 Radeon RX 560DX
103c 8479 Radeon RX 560X Mobile
1043 04bc Radeon RX 560
1043 052f Radeon RX 560
1458 22ed
Radeon RX 560
148c 2381 Radeon RX 560
1682 9560 Radeon RX 560
1da2 e348 Radeon RX 560
1da2 e367 Radeon RX 550 640SP
6800 Wimbledon XT [Radeon HD 7970M]
1002 0124 Radeon HD 7970M
8086 2110 Radeon HD 7970M
8086 2111 Radeon HD 7970M
6801 Neptune XT [Radeon HD 8970M]
1002 0124 Radeon HD 8970M
1462 1117 Radeon R9 M290X
8086 2110 Radeon HD 8970M
8086 2111 Radeon HD 8970M
6802 Wimbledon
6806 Neptune
6808 Pitcairn XT GL [FirePro W7000]

1002 0310 FirePro S7000
1002 0420 Radeon Sky 500
103c 030c MED-X7000
13cc 3d25 MXRT-7500
15c3 030c MED-X7000
6809 Pitcairn LE GL [FirePro W5000]
13cc 3d23 MXRT-5500
13cc 3d24 MXRT-5550
15c3 0b06 MED-X5000
6810 Curacao XT / Trinidad XT [Radeon R7 370 / R9 270X/370X]
106b 012a FirePro D300
106b 012b FirePro D300
148c 0908 Radeon R9 370 OEM
1682 7370 Radeon R7 370
6811 Curacao PRO [Radeon R7 370 / R9 270/370 OEM]
1028 0b00 Trinidad PRO [Radeon R9 370 OEM]
1043 2016 Trinidad
PRO [Radeon R9 370 OEM]
1458 2016 Trinidad PRO [Radeon R9 370 OEM]
1462 2016 Trinidad PRO [Radeon R9 370 OEM]
1462 3050 R9 270 Gaming OC
148c 2016 Trinidad PRO [Radeon R9 370 OEM]
1682 2015 Trinidad PRO [Radeon R7 370]
174b 2015 NITRO Radeon R7 370
174b 2016 Trinidad PRO [Radeon R9 370 OEM]
1787 2016 Trinidad PRO [Radeon R9 370 OEM]
6816 Pitcairn
6817 Pitcairn
6818 Pitcairn XT [Radeon HD 7870 GHz Edition]
1002 0b05 Radeon HD 8870 OEM
174b 8b04 Radeon HD 8860
6819 Pitcairn PRO [Radeon HD 7850 / R7 265 / R9 270 1024SP]
1043 042c Radeon HD 7850
1682 7269 Radeon R9 270 1024SP
1682 9278 Radeon R9 270 1024SP
174b a008 Radeon R9 270 1024SP
174b e221 Radeon HD 7850 2GB GDDR5 DVI-I/DVI-D/HDMI/DP
6820 Venus XTX [Radeon HD 8890M / R9 M275X/M375X]
103c 1851 Radeon HD 7750M
17aa 3643 Radeon R9 A375
17aa 3801 Radeon R9 M275
17aa 3824 Radeon R9 M375
6821 Venus XT [Radeon HD 8870M / R9 M270X/M370X]
1002 031e FirePro SX4000
1028
05cc FirePro M5100
1028 15cc FirePro M5100
106b 0149 Radeon R9 M370X Mac Edition

6822 Venus PRO [Radeon E8860]
6823 Venus PRO [Radeon HD 8850M / R9 M265X]
6825 Heathrow XT [Radeon HD 7870M]
 1028 053f FirePro M6000
 1028 05cd FirePro M6000
 1028 15cd FirePro M6000
 103c 176c FirePro M6000
 8086 2111 Chelsea PRO
6826 Chelsea LP [Radeon HD 7700M Series]
6827 Heathrow PRO [Radeon HD 7850M/8850M]
6828 Cape Verde PRO [FirePro W600]
 15c3 2b1e MED-X6000
6829 Cape Verde
682a Venus PRO
682b Cape Verde PRO / Venus LE / Tropo PRO-L [Radeon HD 8830M / R7 250 / R7 M465X]
 0128 079c Radeon R7 465X
 1462 3012 Radeon R7 250
682c Cape Verde GL [FirePro W4100]
682d Chelsea XT GL [FirePro M4000]
682f Chelsea LP [Radeon HD 7730M]
 103c 1851 Radeon HD 7750M
6835 Cape Verde PRX [Radeon R9 255 OEM]
6837 Cape Verde LE [Radeon HD 7730/8730]
 1462 2796 Radeon HD 8730
 1462 8092 Radeon HD 8730
 148c 8730 Radeon HD 8730
 1787 3000 Radeon HD 6570
683d
 Cape Verde XT [Radeon HD 7770/8760 / R7 250X]
 1002 0030 Radeon HD 8760 OEM
 1019 0030 Radeon HD 8760 OEM
 103c 6890 Radeon HD 8760 OEM
 1043 8760 Radeon HD 8760 OEM
 1462 2710 R7770-PMD1GD5
 174b 8304 Radeon HD 8760 OEM
683f Cape Verde PRO [Radeon HD 7750/8740 / R7 250E]
 1462 2790 Radeon HD 8740
 1462 2791 Radeon HD 8740
 1642 3b97 Radeon HD 8740
6840 Thames [Radeon HD 7500M/7600M Series]
 1025 050e Radeon HD 7670M
 1025 050f Radeon HD 7670M
 1025 0513 Radeon HD 7670M
 1025 0514 Radeon HD 7670M
 1025 056d Radeon HD 7670M
 1025 059a Radeon HD 7670M
 1025 059b Radeon HD 7670M
 1025 059e Radeon HD 7670M

1025 0600 Radeon HD 7670M
1025 0606 Radeon HD 7670M
1025 0696 Radeon HD 7650M
1025 0697 Radeon HD 7650M
1025 0698 Radeon HD 7650M
1025 0699 Radeon HD 7650M
1025 0757 Radeon HD 7670M
1028 056a Radeon HD 7670M
1028 056e Radeon HD 7670M
1028 0598 Radeon HD 7670M
1028 059d Radeon HD 7670M
1028 05a3 Radeon HD 7670M
1028
05b9 Radeon HD 7670M
1028 05bb Radeon HD 7670M
103c 1789 FirePro M2000
103c 17f1 Radeon HD 7570M
103c 17f4 Radeon HD 7650M
103c 1813 Radeon HD 7590M
103c 182f Radeon HD 7670M
103c 1830 Radeon HD 7670M
103c 1835 Radeon HD 7670M
103c 183a Radeon HD 7670M
103c 183c Radeon HD 7670M
103c 183e Radeon HD 7670M
103c 1840 Radeon HD 7670M
103c 1842 Radeon HD 7670M
103c 1844 Radeon HD 7670M
103c 1848 Radeon HD 7670M
103c 184a Radeon HD 7670M
103c 184c Radeon HD 7670M
103c 1895 Radeon HD 7670M
103c 1897 Radeon HD 7670M
103c 18a5 Radeon HD 7670M
103c 18a7 Radeon HD 7670M
103c 18f4 Radeon HD 7670M
1043 100a Radeon HD 7670M
1043 104b Radeon HD 7670M
1043 10dc Radeon HD 7670M
1043 2121 Radeon HD 7670M
1043 2122 Radeon HD 7670M
1043 2123 Radeon HD 7670M
1043 2125 Radeon HD 7670M
1043 2127 Radeon HD 7670M
1179 fb11 Radeon HD 7670M
1179 fb22 Radeon HD 7670M
1179 fb23 Radeon HD 7670M
1179 fb2c Radeon

HD 7670M
1179 fb31 Radeon HD 7670M
1179 fb32 Radeon HD 7670M
1179 fb38 Radeon HD 7670M
1179 fb39 Radeon HD 7670M
1179 fb3a Radeon HD 7670M
1179 fb40 Radeon HD 7670M
1179 fb41 Radeon HD 7670M
1179 fb47 Radeon HD 7670M
1179 fb48 Radeon HD 7670M
1179 fb51 Radeon HD 7670M
1179 fb52 Radeon HD 7670M
1179 fb53 Radeon HD 7670M
1179 fb81 Radeon HD 7670M
1179 fb82 Radeon HD 7670M
1179 fb83 Radeon HD 7670M
1179 fc56 Radeon HD 7670M
1179 fcd4 Radeon HD 7670M
1179 fcee Radeon HD 7670M
144d c0c5 Radeon HD 7690M
144d c0ce Radeon HD 7670M
144d c0da Radeon HD 7670M
17aa 3970 Radeon HD 7670M
17aa 397b Radeon HD 7670M
17aa 5101 Radeon HD 7670M
17aa 5102 Radeon HD 7670M
17aa 5103 Radeon HD 7670M
6841 Thames [Radeon HD 7550M/7570M/7650M]
1028 0561 Radeon HD 7650M
1028 056c Radeon HD 7650M
1028 057f Radeon HD 7570M
103c 17f1 Radeon HD 7570M
103c 17f4 Radeon HD 7650M
103c 1813 Radeon HD 7570M
103c 183a Radeon
HD 7650M
103c 183c Radeon HD 7650M
103c 183e Radeon HD 7650M
103c 1840 Radeon HD 7650M
103c 1842 Radeon HD 7650M
103c 1844 Radeon HD 7650M
1043 100a Radeon HD 7650M
1043 104b Radeon HD 7650M
1043 10dc Radeon HD 7650M
1043 2134 Radeon HD 7650M
1179 0001 Radeon HD 7570M
1179 0002 Radeon HD 7570M
1179 fb43 Radeon HD 7550M

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  1179 fb91  Radeon HD 7550M
  1179 fb92  Radeon HD 7550M
  1179 fb93  Radeon HD 7550M
  1179 fba2  Radeon HD 7550M
  1179 fba3  Radeon HD 7550M
  144d c0c7  Radeon HD 7550M
 6842  Thames LE [Radeon HD 7000M Series]
 6843  Thames [Radeon HD 7670M]
 6860  Vega 10 [Radeon Instinct MI25]
  1002 0c35  Radeon PRO V320
  1002 6c75  Radeon PRO V320
  106b 017c  Radeon Pro Vega 64
 6861  Vega 10 XT [Radeon PRO WX 9100]
 6862  Vega 10 XT [Radeon PRO SSG]
 6863  Vega 10 XTX [Radeon Vega Frontier Edition]
 6864  Vega
 6867  Vega 10 XL [Radeon Pro Vega 56]
 6868  Vega 10 [Radeon PRO WX 8100/8200]
 686c  Vega 10 [Radeon Instinct MI25 MxGPU]
 687f
  Vega 10 XL/XT [Radeon RX Vega 56/64]
  1002 0b36  RX Vega64
  1002 6b76  RX Vega56
 6880  Lexington [Radeon HD 6550M]
  103c 163c  Pavilion dv6 Radeon HD 6550M
 6888  Cypress XT [FirePro V8800]
 6889  Cypress PRO [FirePro V7800]
  1002 0301  FirePro V7800P
  13cc 3d1f  MXRT-7400
 688a  Cypress XT [FirePro V9800]
  1002 030c  FirePro V9800P
 688c  Cypress XT GL [FireStream 9370]
 688d  Cypress PRO GL [FireStream 9350]
 6898  Cypress XT [Radeon HD 5870]
  1002 0b00  Radeon HD 5870 Eyefinity Edition
  106b 00d0  Radeon HD 5870 Mac Edition
# R5870-PM2D1G
  1462 8032  Radeon HD 5870 1 GB GDDR5
  174b 6870  Radeon HD 6870 1600SP Edition
 6899  Cypress PRO [Radeon HD 5850]
# EAH5850
  1043 0330  Radeon HD 5850
  174b 237b  Radeon HD 5850 X2
  174b 6850  Radeon HD 6850 1440SP Edition
 689b  Cypress PRO [Radeon HD 6800 Series]
 689c  Hemlock [Radeon HD 5970]
  1043 0352  ARES
 689d  Hemlock [Radeon HD 5970]
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689e Cypress LE [Radeon HD 5830]
68a0 Broadway XT [Mobility Radeon HD 5870]
 1028
12ef FirePro M7820
 103c 1520 FirePro M7820
68a1 Broadway PRO [Mobility Radeon HD 5850]
 106b 00cc iMac MC511 Mobility Radeon HD 5850 MXM Module
68a8 Granville [Radeon HD 6850M/6870M]
 1025 0442 Radeon HD 6850M
 1025 0451 Radeon HD 6850M
 1025 050a Radeon HD 6850M
 1025 050b Radeon HD 6850M
 1025 050c Radeon HD 6850M
 1025 050e Radeon HD 6850M
 1025 050f Radeon HD 6850M
 1025 0513 Radeon HD 6850M
 1025 0514 Radeon HD 6850M
 1025 0515 Radeon HD 6850M
 1025 0516 Radeon HD 6850M
 1025 0525 Radeon HD 6850M
 1025 0526 Radeon HD 6850M
 1025 056d Radeon HD 6850M
 1028 048f Radeon HD 6870M
 1028 0490 Radeon HD 6870M
 1028 04b9 Radeon HD 6870M
 1028 04ba Radeon HD 6870M
 103c 159b Radeon HD 6850M
 144d c0ad Radeon HD 6850M
68a9 Juniper XT [FirePro V5800]
 13cc 3d1e MXRT-5400
 13cc 3d20 MXRT-5450
68b8 Juniper XT [Radeon HD 5770]
 106b 00cf MacPro5,1 [Mac Pro 2.8GHz DDR3]
68b9 Juniper LE [Radeon HD 5670 640SP Edition]
68ba Juniper
XT [Radeon HD 6770]
68be Juniper PRO [Radeon HD 5750]
 148c 3000 Radeon HD 6750
68bf Juniper PRO [Radeon HD 6750]
 174b 6750 Radeon HD 6750
68c0 Madison [Mobility Radeon HD 5730 / 6570M]
 1019 2383 Mobility Radeon HD 5730
 1028 02a2 Mobility Radeon HD 5730
 1028 02fe Mobility Radeon HD 5730
 1028 0419 Mobility Radeon HD 5730
 103c 147d Mobility Radeon HD 5730
 103c 1521 Madison XT [FirePro M5800]
 103c 1593 Mobility Radeon HD 6570

103c 1596 Mobility Radeon HD 6570
103c 1599 Mobility Radeon HD 6570
1043 1c22 Mobility Radeon HD 5730
17aa 3927 Mobility Radeon HD 5730
17aa 3952 Mobility Radeon HD 5730
17aa 3978 Radeon HD 6570M
68c1 Madison [Mobility Radeon HD 5650/5750 / 6530M/6550M]
1025 0205 Mobility Radeon HD 5650
1025 0293 Mobility Radeon HD 5650
1025 0294 Mobility Radeon HD 5650
1025 0296 Mobility Radeon HD 5650
1025 0308 Mobility Radeon HD 5650
1025 030a Mobility Radeon HD 5650
1025 0311 Mobility Radeon HD 5650
1025 0312
Mobility Radeon HD 5650
1025 031c Mobility Radeon HD 5650
1025 031d Mobility Radeon HD 5650
1025 033d Mobility Radeon HD 5650
1025 033e Mobility Radeon HD 5650
1025 033f Mobility Radeon HD 5650
1025 0346 Mobility Radeon HD 5650
1025 0347 Aspire 7740G
1025 0348 Mobility Radeon HD 5650
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1025 035b Mobility Radeon HD 5650
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1025 0364 Mobility Radeon HD 5650
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1025 0366 Mobility Radeon HD 5650
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1025 0368 Mobility Radeon HD 5650
1025 036c Mobility Radeon HD 5650
1025 036d Mobility Radeon HD 5650
1025 036e Mobility
Radeon HD 5650
1025 036f Mobility Radeon HD 5650
1025 0372 Mobility Radeon HD 5650
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1025 037a Mobility Radeon HD 5650
1025 037b Mobility Radeon HD 5650
1025 037e Mobility Radeon HD 5650
1025 037f Mobility Radeon HD 5650
1025 0382 Mobility Radeon HD 5650
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1025 0412 Mobility Radeon HD 5650
1025 0418 Mobility Radeon HD 5650
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1025 0425 Mobility
Radeon HD 5650
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1025 042e Mobility Radeon HD 5650
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1025 0432 Mobility Radeon HD 5650
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1025 0442 Mobility Radeon HD 5650
1025 044c Mobility Radeon HD 5650
1025 044e Mobility Radeon HD 5650
1025 0451 Mobility Radeon HD 5650
1025 0454 Mobility Radeon HD 5650
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1025 0475 Mobility Radeon HD 5650
1025 0476 Mobility Radeon HD 5650
1025 0487 Mobility Radeon HD 5650
1025 0489 Mobility Radeon HD 5650
1025 0498 Mobility Radeon HD 5650
1025 0517 Radeon HD 6550M
1025 051a Radeon HD 6550M
1025 051b Radeon HD 6550M
1025 051c Radeon HD 6550M
1025 051d Radeon HD 6550M
1025 0525 Radeon HD 6550M
1025 0526 Radeon HD 6550M
1025 052b Radeon HD 6550M

1025 052c Radeon HD 6550M
1025 053c Radeon HD 6550M
1025 053d Radeon HD 6550M
1025 053e Radeon HD 6550M
1025 053f Radeon HD 6550M
1025 0607 Radeon
HD 6550M
1028 041b Mobility Radeon HD 5650
1028 0447 Mobility Radeon HD 5650
1028 0448 Mobility Radeon HD 5650
1028 0456 Mobility Radeon HD 5650
1028 0457 Mobility Radeon HD 5650
103c 1436 Mobility Radeon HD 5650
103c 1437 Mobility Radeon HD 5650
103c 1440 Mobility Radeon HD 5650
103c 1448 Mobility Radeon HD 5650
103c 1449 Mobility Radeon HD 5650
103c 144a Mobility Radeon HD 5650
103c 144b Mobility Radeon HD 5650
103c 147b Mobility Radeon HD 5650
103c 149c Mobility Radeon HD 5650
103c 149e Mobility Radeon HD 5650
103c 1521 Madison Pro [FirePro M5800]
1043 1bc2 Mobility Radeon HD 5650
104d 9071 Mobility Radeon HD 5650
104d 9077 Mobility Radeon HD 5650
104d 9081 Mobility Radeon HD 5650
1179 fd00 Mobility Radeon HD 5650
1179 fd12 Mobility Radeon HD 5650
1179 fd1a Mobility Radeon HD 5650
1179 fd30 Mobility Radeon HD 5650
1179 fd31 Mobility Radeon HD 5650
1179 fd50 Mobility Radeon HD 5650
1179 fd52 Radeon
HD 6530M
1179 fd63 Radeon HD 6530M
1179 fd65 Radeon HD 6530M
1179 fdd0 Mobility Radeon HD 5650
1179 fdd2 Radeon HD 6530M
144d c07e Mobility Radeon HD 5650
144d c085 Mobility Radeon HD 5650
14c0 0043 Mobility Radeon HD 5650
14c0 004d Mobility Radeon HD 5650
17aa 3928 Mobility Radeon HD 5650
17aa 3951 Mobility Radeon HD 5650
17aa 3977 Radeon HD 6550M
68c7 Pinewood [Mobility Radeon HD 5570/6550A]
1462 2241 Mobility Radeon HD 5570

1462 2243 Mobility Radeon HD 5570
1462 2244 Mobility Radeon HD 5570
1462 2245 Radeon HD 6550A
1462 2246 Radeon HD 6550A
68c8 Redwood XT GL [FirePro V4800]
68c9 Redwood PRO GL [FirePro V3800]
13cc 3d1d MXRT-2400
68d8 Redwood XT [Radeon HD 5670/5690/5730]
1028 68e0 Radeon HD 5670
174b 5690 Radeon HD 5690
174b 5730 Radeon HD 5730
174b e151 Radeon HD 5670
1787 3000 Radeon HD 5730
17af 3010 Radeon HD 5730
17af 3011 Radeon HD 5690
68d9 Redwood PRO [Radeon HD 5550/5570/5630/6510/6610/7570]
103c
6870 Radeon HD 5570
103c 6872 Radeon HD 5570
1043 03ce Radeon HD 5550
1462 2151 Radeon HD 5570
1462 2240 Radeon HD 5570
148c 3000 Radeon HD 6510
148c 3001 Radeon HD 6610
1545 5550 Radeon HD 5550
1545 7570 Radeon HD 7570
1642 3985 Radeon HD 5570
1642 3996 Radeon HD 5570
174b 3000 Radeon HD 6510
174b 6510 Radeon HD 6510
174b 6610 Radeon HD 6610
174b e142 Radeon HD 5570
1787 3000 Radeon HD 6510
17af 3000 Radeon HD 6510
17af 3010 Radeon HD 5630
68da Redwood LE [Radeon HD 5550/5570/5630/6390/6490/7570]
148c 3000 Radeon HD 6390
148c 3001 Radeon HD 6490
1545 7570 Radeon HD 7570
174b 3000 Radeon HD 6390
174b 5570 Radeon HD 5570
174b 5630 Radeon HD 5630
174b 6490 Radeon HD 6490
1787 3000 Radeon HD 5630
17af 3000 Radeon HD 6390
17af 3010 Radeon HD 5630
68de Redwood
68e0 Park [Mobility Radeon HD 5430/5450/5470]

1028 0404 Mobility Radeon HD 5450
1028 0414 Mobility Radeon HD 5450
1028 0434 Mobility
Radeon HD 5450
103c 1433 Mobility Radeon HD 5450
103c 1434 Mobility Radeon HD 5450
103c 1469 Mobility Radeon HD 5450
103c 146b Mobility Radeon HD 5450
103c 1486 TouchSmart tm2-2050er discrete GPU (Mobility Radeon HD 5450)
103c 1622 Mobility Radeon HD 5450
103c 1623 Mobility Radeon HD 5450
103c eeee Mobility Radeon HD 5450
104d 9076 Mobility Radeon HD 5450
1682 304e Caicos [Radeon HD 5450]
1682 6000 Caicos [Radeon HD 5450]
17aa 9e52 FirePro M3800
17aa 9e53 FirePro M3800
68e1 Park [Mobility Radeon HD 5430]
1043 041f Caicos [Radeon HD 7350]
1043 3000 Caicos [Radeon HD 5450]
148c 3000 Caicos [Radeon HD 5450]
148c 3001 Caicos [Radeon HD 6230]
148c 3002 Caicos [Radeon HD 6250]
148c 3003 Caicos [Radeon HD 6350]
148c 7350 Caicos [Radeon HD 7350]
148c 8350 Caicos [Radeon HD 8350]
1545 5450 Caicos [Radeon HD 5450]
1545 7350 Caicos [Radeon HD 7350]
1682 3000 Caicos [Radeon HD 5450]
1682 6000 Caicos [Radeon HD 5450]
1682
7350 Caicos [Radeon HD 7350]
174b 3000 Caicos [Radeon HD 5450]
174b 5470 Caicos [Radeon HD 5470]
174b 6000 Caicos [Radeon HD 5450]
174b 6230 Caicos [Radeon HD 6230]
174b 6350 Caicos [Radeon HD 6350]
174b 7350 Caicos [Radeon HD 7350]
1787 3000 Caicos [Radeon HD 5450]
17af 3000 Caicos [Radeon HD 5450]
17af 3001 Caicos [Radeon HD 6230]
17af 3014 Caicos [Radeon HD 6350]
17af 3015 Caicos [Radeon HD 7350]
17af 8350 Caicos [Radeon HD 8350 OEM]
68e4 Robson CE [Radeon HD 6370M/7370M]
1019 2386 Radeon HD 6350M
1019 2387 Radeon HD 6350M
1019 238d Radeon HD 6370M

1019 238e Radeon HD 6370M
1025 0382 Radeon HD 6370M
1025 0489 Radeon HD 6370M
1025 048a Radeon HD 6370M
1025 048b Radeon HD 6370M
1025 048c Radeon HD 6370M
1028 04c1 Radeon HD 6370M
1028 04ca Radeon HD 6370M
1028 04cc Radeon HD 6370M
1028 04cd Radeon HD 6370M
1028 04d7 Radeon HD 6370M
103c 1411 Radeon HD 6370M
103c 1421 Radeon HD 6370M
103c 1426
Radeon HD 6370M
103c 1428 Radeon HD 6370M
103c 142a Radeon HD 6370M
103c 142b Radeon HD 6370M
103c 143a Radeon HD 6370M
103c 143c Radeon HD 6370M
103c 1445 Radeon HD 6370M
103c 162c Radeon HD 6370M
103c 162d Radeon HD 6370M
103c 162e Radeon HD 6370M
103c 162f Radeon HD 6370M
103c 1639 Radeon HD 6370M
103c 163a Radeon HD 6370M
103c 163b Radeon HD 6370M
103c 163c Radeon HD 6370M
103c 163d Radeon HD 6370M
103c 163e Radeon HD 6370M
103c 163f Radeon HD 6370M
103c 1641 Radeon HD 6370M
103c 1643 Radeon HD 6370M
103c 3578 Radeon HD 6370M
103c 357a Radeon HD 6370M
103c 3673 Radeon HD 6370M
103c 3675 Radeon HD 6370M
1043 1c92 Radeon HD 6370M
1043 84a1 Radeon HD 6370M
1043 84ad Radeon HD 6370M
104d 9081 Radeon HD 6370M
1545 7350 Cedar [Radeon HD 7350]
1558 4510 Radeon HD 6370M
1558 5505 Radeon HD 6370M
174b 5450 Cedar [Radeon HD 5450]
17aa 21dd Radeon HD 6370M
17aa 21e9 Radeon HD 6370M

17aa 3971
Radeon HD 6370M
17aa 3972 Radeon HD 7370M
17aa 397a Radeon HD 6370M/7370M
17aa 397b Radeon HD 6370M/7370M
17aa 397f Radeon HD 7370M
68e5 Robson LE [Radeon HD 6330M]
1179 fd3c Radeon HD 6330M
1179 fd50 Radeon HD 6330M
1179 fd52 Radeon HD 6330M
1179 fd63 Radeon HD 6330M
1179 fd65 Radeon HD 6330M
1179 fd73 Radeon HD 6330M
1179 fd75 Radeon HD 6330M
1179 fdd0 Radeon HD 6330M
1179 fdd2 Radeon HD 6330M
1179 fdea Radeon HD 6330M
1179 fdf8 Radeon HD 6330M
148c 5450 Cedar [Radeon HD 5450]
148c 6350 Cedar [Radeon HD 6350]
148c 7350 Cedar [Radeon HD 7350]
148c 8350 Cedar [Radeon HD 8350]
1545 7350 Cedar [Radeon HD 7350]
68e8 Cedar
68e9 Cedar [ATI FirePro (FireGL) Graphics Adapter]
68f1 Cedar GL [FirePro 2460]
68f2 Cedar GL [FirePro 2270]
68f8 Cedar [Radeon HD 7300 Series]
68f9 Cedar [Radeon HD 5000/6000/7350/8350 Series]
1019 0001 Radeon HD 5450
1019 0002 Radeon HD 5450
1019 0019 Radeon HD 6350
1025 0518 Radeon
HD 5450
1025 0519 Radeon HD 5450
1028 010e XPS 8300
1028 2126 Radeon HD 6350
103c 2126 Radeon HD 6350
103c 2aac Radeon HD 5450
103c 2aae Radeon HD 5450
103c 3580 Radeon HD 5450
1043 0386 Radeon HD 5450
1043 03c2 EAH5450 SILENT/DI/512MD2 (LP)
1462 2130 Radeon HD 5450
1462 2131 Radeon HD 5450
1462 2133 Radeon HD 6350
1462 2180 Radeon HD 5450
1462 2181 Radeon HD 5450

1462 2182 Radeon HD 6350
1462 2183 Radeon HD 6350
1462 2230 Radeon HD 5450
1462 2231 Radeon HD 5450
1462 2495 Radeon HD 6350
148c 3001 Radeon HD 5530/6250
148c 3002 Radeon HD 6290
148c 3003 Radeon HD 6230
148c 3004 Radeon HD 6350
148c 7350 Radeon HD 7350
148c 8350 Radeon HD 8350
1545 7350 Radeon HD 7350
1642 3983 Radeon HD 5450
1642 3984 Radeon HD 6350
1642 3987 Radeon HD 6350
1642 3997 Radeon HD 5450
1642 3a05 Radeon HD 5450
1642 3b31 Radeon HD 6350A
1682 3270 Radeon HD 7350
174b 3000 Radeon HD 6230
174b 3987 Radeon HD 6350
174b
5470 Radeon HD 5470
174b 5490 Radeon HD 5490
174b 5530 Radeon HD 5530
174b 6230 Radeon HD 6230
174b 6250 Radeon HD 6250
174b 6290 Radeon HD 6290
174b 6350 Radeon HD 6350
174b 7350 Radeon HD 7350
174b 8350 Radeon HD 8350
174b e127 Radeon HD 5450
174b e145 Radeon HD 5450
174b e153 Radeon HD 5450
1787 3000 Radeon HD 5470
1787 3001 Radeon HD 5530
1787 3002 Radeon HD 5490
17aa 3602 Radeon HD 5450
17aa 3603 Radeon HD 5450
17aa 360f Radeon HD 5450
17aa 3619 Radeon HD 5450
17af 3000 Radeon HD 6250
17af 3001 Radeon HD 6230
17af 3002 Radeon HD 6290
17af 3011 Radeon HD 5470
17af 3012 Radeon HD 5490
17af 3013 Radeon HD 5470
17af 3014 Radeon HD 6350

68fa Cedar [Radeon HD 7350/8350 / R5 220]
1019 0019 Radeon HD 7350
1019 0021 Radeon HD 7350
1019 0022 Radeon HD 7350
1019 0026 Radeon HD 8350
103c 2adf Radeon HD 7350A
103c 2ae8 Radeon HD 7350A
1043 8350 Radeon HD 8350
1462 2128 Radeon HD 7350
1462
2184 Radeon HD 7350
1462 2186 Radeon HD 7350
1462 2495 Radeon HD 7350
1462 b490 Radeon HD 7350
1642 3985 Radeon HD 7350
174b 3510 Radeon HD 8350
174b 3521 Radeon R5 220
174b 3522 Radeon R5 220
174b 7350 Radeon HD 7350
174b 8153 Radeon HD 8350
174b e127 Radeon HD 7350
174b e153 Radeon HD 7350
174b e180 Radeon HD 7350
17af 3015 Radeon HD 7350
68fe Cedar LE
6900 Topaz XT [Radeon R7 M260/M265 / M340/M360 / M440/M445 / 530/535 / 620/625 Mobile]
1025 1056 Radeon R7 M360 / R8 M365DX
1028 0640 Radeon R7 M260/M265
1028 0643 Radeon R7 M260/M265
1028 067f Radeon R7 M260
1028 0767 Radeon R7 M445
1028 0810 Radeon 530
1028 130a Radeon R7 M260
103c 2263 Radeon R7 M260
103c 2269 Radeon R7 M260
103c 22c6 Radeon R7 M260
103c 22c8 Radeon R7 M260
103c 2b45 Radeon R7 A360
103c 808c Radeon R7 M260
103c 8099 Radeon R7 M360
103c 80b5 Radeon R7 M360
103c 80b9 Radeon R7 M360
103c 811c Radeon R7 M340
103c 8226
Radeon R7 M440
10cf 1906 Radeon R7 M260
1170 9979 Radeon R7 M360
1179 f903 Radeon R7 M260

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 1179 f922  Radeon R7 M260
 1179 f923  Radeon R7 M260
 1179 f934  Radeon R7 M260
 17aa 3822  Radeon R7 M360
 17aa 3824  Radeon R7 M360
 17aa 5021  Radeon R7 M260
6901  Topaz PRO [Radeon R5 M255]
 103c 1318  Radeon R6 M255DX
6907  Meso XT [Radeon R5 M315]
6921  Amethyst XT [Radeon R9 M295X]
6929  Tonga XT GL [FirePro S7150]
692b  Tonga PRO GL [FirePro W7100]
 13cc 3d2b  MXRT-7600
692f  Tonga XTV GL [FirePro S7150V]
6938  Tonga XT / Amethyst XT [Radeon R9 380X / R9 M295X]
 1043 04f5  Radeon R9 380X
 1043 04f7  Radeon R9 380X
 106b 013a  Radeon R9 M295X Mac Edition
 1458 22c8  Radeon R9 380X
 148c 2350  Radeon R9 380X
 1682 9385  Radeon R9 380X
 174b e308  Radeon R9 380X Nitro 4G D5
 17af 2006  Radeon R9 380X
6939  Tonga PRO [Radeon R9 285/380]
 148c 9380  Radeon R9 380
# Make naming scheme consistent
 174b e308  Radeon R9 380 Nitro 4G D5
694c  Polaris 22 XT [Radeon
RX Vega M GH]
694e  Polaris 22 XL [Radeon RX Vega M GL]
694f  Polaris 22 MGL XL [Radeon Pro WX Vega M GL]
6980  Polaris12
6981  Lexa XT [Radeon PRO WX 3200]
6985  Lexa XT [Radeon PRO WX 3100]
6986  Polaris12
6987  Lexa [Radeon 540X/550X/630 / RX 640 / E9171 MCM]
6995  Lexa XT [Radeon PRO WX 2100]
699f  Lexa PRO [Radeon 540/540X/550/550X / RX 540X/550/550X]
 1028 1720  Radeon RX 550X
 148c 2380  Lexa XL [Radeon RX 550]
 1da2 e367  Lexa PRO [Radeon RX 550]
69a0  Vega 12
69a1  Vega 12
69a2  Vega 12
69a3  Vega 12
69af  Vega 12 [Radeon Pro Vega 20]
6fdf  Polaris 20 XL [Radeon RX 580 2048SP]
700f  RS100 AGP Bridge
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7010 RS200/RS250 AGP Bridge
7100 R520 [Radeon X1800 XT]
7101 R520/M58 [Mobility Radeon X1800 XT]
7102 R520/M58 [Mobility Radeon X1800]
7104 R520 GL [FireGL V7200]
 13cc 3d0a MXRT-5100
7109 R520 [Radeon X1800 XL]
 1002 0322 All-in-Wonder X1800XL
 1002 0d02 Radeon X1800 CrossFire Edition
710a R520 [Radeon X1800 GTO]
 1002 0b12 Radeon X1800
GTO²
710b R520 [Radeon X1800 GTO]
710e R520 GL [FireGL V7300]
 13cc 3d0c MXRT-5150
710f R520 GL [FireGL V7350]
 13cc 3d0e MXRT-7100
7120 R520 [Radeon X1800] (Secondary)
7124 R520 GL [FireGL V7200] (Secondary)
 13cc 3d0b MXRT-5100 (Secondary)
7129 R520 [Radeon X1800] (Secondary)
 1002 0323 All-In-Wonder X1800 XL (Secondary)
 1002 0d03 Radeon X1800 CrossFire Edition (Secondary)
712e R520 GL [FireGL V7300] (Secondary)
 13cc 3d0d MXRT-5150 (Secondary)
712f R520 GL [FireGL V7350] (Secondary)
 13cc 3d0f MXRT-7100 (Secondary)
7140 RV515 [Radeon X1300/X1550/X1600 Series]
7142 RV515 PRO [Radeon X1300/X1550 Series]
 1002 0322 All-in-Wonder 2006 PCI-E Edition
 1043 0142 EAX1300PRO/TD/256M
7143 RV505 [Radeon X1300/X1550 Series]
7145 RV515/M54 [Mobility Radeon X1400]
 17aa 2006 Thinkpad T60 model 2007
7146 RV515 [Radeon X1300/X1550]
 1002 0322 All-in-Wonder 2006 PCI-E Edition
 1545 1996 Radeon X1300 512MB PCI-e
7147 RV505 [Radeon X1550 64-bit]
7149
 RV515/M52 [Mobility Radeon X1300]
714a RV515/M52 [Mobility Radeon X1300]
7152 RV515 GL [FireGL V3300]
7153 RV515 GL [FireGL V3350]
715f RV505 CE [Radeon X1550 64-bit]
7162 RV515 PRO [Radeon X1300/X1550 Series] (Secondary)
 1002 0323 All-in-Wonder 2006 PCI-E Edition (Secondary)
7163 RV505 [Radeon X1550 Series] (Secondary)
7166 RV515 [Radeon X1300/X1550 Series] (Secondary)

1002 0323 All-in-Wonder 2006 PCI-E Edition (Secondary)
1545 1997 Radeon X1300 512MB PCI-e (Secondary)
7167 RV515 [Radeon X1550 64-bit] (Secondary)
7172 RV515 GL [FireGL V3300] (Secondary)
7173 RV515 GL [FireGL V3350] (Secondary)
7181 RV516 [Radeon X1600/X1650 Series]
7183 RV516 [Radeon X1300/X1550 Series]
7186 RV516/M64 [Mobility Radeon X1450]
7187 RV516 [Radeon X1300/X1550 Series]
7188 RV516/M64-S [Mobility Radeon X2300]
103c 30c1 6910p
718a RV516/M64 [Mobility Radeon X2300]
718b RV516/M62 [Mobility Radeon X1350]
1071 8209 Medion MIM 2240 Notebook PC [MD98100]
718c
RV516/M62-CSP64 [Mobility Radeon X1350]
718d RV516/M64-CSP128 [Mobility Radeon X1450]
7193 RV516 [Radeon X1550 Series]
7196 RV516/M62-S [Mobility Radeon X1350]
719b RV516 GL [FireMV 2250]
13cc 3d12 MXRT-1150
13cc 3d14 MXRT-2150
719f RV516 [Radeon X1550 Series]
71a0 RV516 [Radeon X1300/X1550 Series] (Secondary)
71a1 RV516 [Radeon X1600/X1650 Series] (Secondary)
71a3 RV516 [Radeon X1300/X1550 Series] (Secondary)
71a7 RV516 [Radeon X1300/X1550 Series] (Secondary)
71bb RV516 GL [FireMV 2250] (Secondary)
13cc 3d13 MXRT-1150 (Secondary)
13cc 3d15 MXRT-2150 (Secondary)
71c0 RV530 [Radeon X1600 XT/X1650 GTO]
1002 e160 Radeon X1650 GTO
174b e160 Radeon X1650 GTO
71c1 RV535 [Radeon X1650 PRO]
174b 0880 Radeon X1700 FSC
71c2 RV530 [Radeon X1600 PRO]
71c4 RV530/M56 GL [Mobility FireGL V5200]
17aa 2007 ThinkPad T60p
71c5 RV530/M56-P [Mobility Radeon X1600]
103c 309f Compaq nx9420 Notebook
103c 30a3 Compaq NW8440
1043 10b2 A6J-Q008
106b
0080 MacBook Pro
71c6 RV530LE [Radeon X1600/X1650 PRO]
71c7 RV535 [Radeon X1650 PRO]
1787 3000 PowerColor X1650 PRO AGP
71ce RV530 [Radeon X1300 XT/X1600 PRO]

71d2 RV530 GL [FireGL V3400]
 13cc 3d08 MXRT-2100
71d4 RV530/M66 GL [Mobility FireGL V5250]
71d5 RV530/M66-P [Mobility Radeon X1700]
71d6 RV530/M66-XT [Mobility Radeon X1700]
71de RV530/M66 [Mobility Radeon X1700/X2500]
71e0 RV530 [Radeon X1600] (Secondary)
 174b e161 Radeon X1600 GTO (Secondary)
71e1 RV535 [Radeon X1650 PRO] (Secondary)
 174b 0881 Radeon X1700 FSC (Secondary)
71e2 RV530 [Radeon X1600] (Secondary)
71e6 RV530 [Radeon X1650] (Secondary)
71e7 RV535 [Radeon X1650 PRO] (Secondary)
 1787 3001 Radeon X1650 PRO AGP
71f2 RV530 GL [FireGL V3400] (Secondary)
 13cc 3d09 MXRT-2100 (Secondary)
7210 RV550/M71 [Mobility Radeon HD 2300]
7211 RV550/M71 [Mobility Radeon X2300 HD]
7240 R580+ [Radeon X1950 XTX]
 1002 0d02 Radeon X1950 CrossFire Edition
7244 R580+ [Radeon X1950
XT]
7248 R580 [Radeon X1950]
7249 R580 [Radeon X1900 XT]
 1002 0412 All-In-Wonder X1900
 1002 0b12 Radeon X1900 XT/XTX
 1002 0d02 Radeon X1900 CrossFire Edition
 1043 0160 Radeon X1900 XTX 512 MB GDDR3
724b R580 [Radeon X1900 GT]
 1002 0b12 Radeon X1900 (Primary)
 1002 0b13 Radeon X1900 (Secondary)
724e R580 GL [FireGL V7350]
7269 R580 [Radeon X1900 XT] (Secondary)
726b R580 [Radeon X1900 GT] (Secondary)
726e R580 [AMD Stream Processor] (Secondary)
7280 RV570 [Radeon X1950 PRO]
7288 RV570 [Radeon X1950 GT]
7291 RV560 [Radeon X1650 XT]
 1462 0810 Radeon X1700 SE
7293 RV560 [Radeon X1650 GT]
72a0 RV570 [Radeon X1950 PRO] (Secondary)
72a8 RV570 [Radeon X1950 GT] (Secondary)
72b1 RV560 [Radeon X1650 XT] (Secondary)
72b3 RV560 [Radeon X1650 GT] (Secondary)
7300 Fiji [Radeon R9 FURY / NANO Series]
 1002 0b36 Radeon R9 FURY X / NANO
 1002 1b36 Radeon Pro Duo
 1043 049e Radeon R9 FURY

1043 04a0 Radeon R9 FURY X
174b e329 Radeon R9 FURY
7310
Navi 10
7312 Navi 10 [Radeon Pro W5700]
731f Navi 10 [Radeon RX 5600 OEM/5600 XT / 5700/5700 XT]
7340 Navi 14 [Radeon RX 5500/5500M / Pro 5500M]
7341 Navi 14 [Radeon Pro W5500]
7347 Navi 14 [Radeon Pro W5500M]
734f Navi 14 [Radeon Pro W5300M]
7833 RS350 Host Bridge
7834 RS350 [Radeon 9100 PRO/XT IGP]
7835 RS350M [Mobility Radeon 9000 IGP]
7838 RS350 AGP Bridge
7910 RS690 Host Bridge
1179 ff50 Satellite P305D-S8995E
17f2 5000 KI690-AM2 Motherboard
7911 RS690/RS740 Host Bridge
1002 7910 RS690/RS740 Host Bridge
7912 RS690/RS740 PCI to PCI Bridge (Internal gfx)
7913 RS690 PCI to PCI Bridge (PCI Express Graphics Port 0)
7915 RS690 PCI to PCI Bridge (PCI Express Port 1)
7916 RS690 PCI to PCI Bridge (PCI Express Port 2)
7917 RS690 PCI to PCI Bridge (PCI Express Port 3)
1002 7910 RS690 PCI to PCI Bridge
7919 RS690 HDMI Audio [Radeon Xpress 1200 Series]
1179 7919 Satellite P305D-S8995E
17f2 5000 KI690-AM2 Motherboard
791e RS690 [Radeon
X1200]
1462 7327 K9AG Neo2
17f2 5000 KI690-AM2 Motherboard
791f RS690M [Radeon Xpress 1200/1250/1270]
1179 ff50 Satellite P305D-S8995E
7930 RS600 Host Bridge
7932 RS600 PCI to PCI Bridge (Internal gfx)
7933 RS600 PCI to PCI Bridge (PCI Express Graphics Port 0)
7935 RS600 PCI to PCI Bridge (PCI Express Port 1)
7936 RS600 PCI to PCI Bridge (PCI Express Port 2)
7937 RS690 PCI to PCI Bridge (PCI Express Port 3)
793b RS600 HDMI Audio [Radeon Xpress 1250]
793f RS690M [Radeon Xpress 1200/1250/1270] (Secondary)
7941 RS600 [Radeon Xpress 1250]
7942 RS600M [Radeon Xpress 1250]
796e RS740 [Radeon 2100]
105b 0e13 N15235/A74MX mainboard
9400 R600 [Radeon HD 2900 PRO/XT]
1002 2552 Radeon HD 2900 XT

1002 3000 Radeon HD 2900 PRO
1002 3142 HIS Radeon HD 2900XT 512MB GDDR3 VIVO PCIe
9401 R600 [Radeon HD 2900 XT]
9403 R600 [Radeon HD 2900 PRO]
9405 R600 [Radeon HD 2900 GT]
940a R600 GL [FireGL V8650]
13cc 3d16 MXRT-7200
940b R600 GL [FireGL
V8600]
940f R600 GL [FireGL V7600]
9440 RV770 [Radeon HD 4870]
9441 R700 [Radeon HD 4870 X2]
9442 RV770 [Radeon HD 4850]
1002 0502 MSI Radeon HD 4850 512MB GDDR3
174b e810 Radeon HD 4850 512MB GDDR3
9443 R700 [Radeon HD 4850 X2]
9444 RV770 GL [FirePro V8750]
9446 RV770 GL [FirePro V7760]
944a RV770/M98L [Mobility Radeon HD 4850]
944b RV770/M98 [Mobility Radeon HD 4850 X2]
944c RV770 LE [Radeon HD 4830]
944e RV770 CE [Radeon HD 4710]
174b 3261 Radeon HD 4810
9450 RV770 GL [FireStream 9270]
9452 RV770 GL [FireStream 9250]
9456 RV770 GL [FirePro V8700]
945a RV770/M98-XT [Mobility Radeon HD 4870]
9460 RV790 [Radeon HD 4890]
9462 RV790 [Radeon HD 4860]
946a RV770 GL [FirePro M7750]
9480 RV730/M96 [Mobility Radeon HD 4650/5165]
103c 3628 Mobility Radeon HD 4650 [dv6-1190en]
9488 RV730/M96-XT [Mobility Radeon HD 4670]
9489 RV730/M96 GL [Mobility FireGL V5725]
9490 RV730 XT [Radeon HD 4670]
174b e880 Radeon HD 4670 512MB GDDR3 Dual DVI-I/TVO
9491
RV730/M96-CSP [Radeon E4690]
9495 RV730 [Radeon HD 4600 AGP Series]
1002 0028 Radeon HD 4650/4670 AGP
1092 0028 Radeon HD 4670 AGP 512MB DDR2
1458 0028 Radeon HD 4650 AGP
1682 0028 Radeon HD 4650 AGP
174b 0028 Radeon HD 4650 AGP DDR2
9498 RV730 PRO [Radeon HD 4650]
949c RV730 GL [FirePro V7750]
13cc 3d1b MXRT-7300
949e RV730 GL [FirePro V5700]

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949f  RV730 GL [FirePro V3750]
94a0  RV740/M97 [Mobility Radeon HD 4830]
94a1  RV740/M97-XT [Mobility Radeon HD 4860]
94a3  RV740/M97 GL [FirePro M7740]
94b3  RV740 PRO [Radeon HD 4770]
94b4  RV740 PRO [Radeon HD 4750]
94c1  RV610 [Radeon HD 2400 PRO/XT]
 1028 0211  Optiplex 755
 1028 0d02  Optiplex 755
94c3  RV610 [Radeon HD 2400 PRO]
 1028 0302  Radeon HD 2400 Pro
 174b e400  Radeon HD 2400 PRO
 18bc 3550  Radeon HD 2400 PRO
94c4  RV610 LE [Radeon HD 2400 PRO AGP]
94c5  RV610 [Radeon HD 2400 LE]
94c7  RV610 [Radeon HD 2350]
94c8  RV610/M74 [Mobility Radeon HD 2400 XT]
94c9  RV610/M72-S
[Mobility Radeon HD 2400]
 1002 94c9  Radeon HD2400
94cb  RV610 [Radeon E2400]
94cc  RV610 LE [Radeon HD 2400 PRO PCI]
9500  RV670 [Radeon HD 3850 X2]
9501  RV670 [Radeon HD 3870]
 174b e620  Radeon HD 3870
9504  RV670/M88 [Mobility Radeon HD 3850]
9505  RV670 [Radeon HD 3690/3850]
 148c 3000  Radeon HD 3850
 174b 3000  Radeon HD 3690/3850
 1787 3000  Radeon HD 3690
9506  RV670/M88 [Mobility Radeon HD 3850 X2]
9507  RV670 [Radeon HD 3830]
9508  RV670/M88-XT [Mobility Radeon HD 3870]
9509  RV670/M88 [Mobility Radeon HD 3870 X2]
950f  R680 [Radeon HD 3870 X2]
9511  RV670 GL [FireGL V7700]
9513  RV670 [Radeon HD 3850 X2]
9515  RV670 PRO [Radeon HD 3850 AGP]
9519  RV670 GL [FireStream 9170]
9540  RV710 [Radeon HD 4550]
954f  RV710 [Radeon HD 4350/4550]
 1462 1618  R4350 MD512H (MS-V161)
9552  RV710/M92 [Mobility Radeon HD 4330/4350/4550]
 1028 1103  M92 [Mobility Radeon HD 4330]
# GV-R435OC-512I/FF1
 1458 21ac  Radeon HD 4350
# GV-R455HM-512I/F41
 1458 21ed  Radeon
```

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 HD 4550
# 113-100928-J01
  148c 3000  Radeon HD 4350 Go! Green 512MB GDDR3
# 113-2E172001-003
  174b 3000  Radeon HD 4350/4550 HyperMemory DDR2
 9553  RV710/M92 [Mobility Radeon HD 4530/4570/545v]
  1025 015e  Mobility Radeon HD 4570
  1025 017d  Mobility Radeon HD 4570
  1025 0205  Mobility Radeon HD 4570 / 545v
  1025 0206  Mobility Radeon HD 4570
  1025 0237  Mobility Radeon HD 4570
  1028 02be  Mobility Radeon HD 4570 / 545v
  1028 02e8  Mobility Radeon HD 4530
  103c 143c  Mobility Radeon HD 545v
  103c 1446  Mobility Radeon HD 545v
  103c 3624  Mobility Radeon HD 4530
  103c 3628  Mobility Radeon HD 4530
  103c 3636  Mobility Radeon HD 4530
  1043 1b32  Mobility Radeon HD 4570
  1043 1b42  Mobility Radeon HD 4570
  104d 9056  Mobility Radeon HD 4570
  1179 ff82  Satellite L505-13T GPU (Mobility Radeon HD 5145)
  144d c07f  Mobility Radeon HD 545v
  144d c571  Mobility Radeon HD 545v
  1462 1006  Mobility Radeon HD 545v
  17aa 2129  Mobility Radeon HD 545v
  17aa 215b  Mobility
 Radeon HD 545v
  17aa 21bb  Mobility Radeon HD 545v
 9555  RV710/M92 [Mobility Radeon HD 4350/4550]
  103c 1411  ProBook 4720s GPU (Mobility Radeon HD 4350)
 9557  RV711 GL [FirePro RG220]
 955f  RV710/M92 [Mobility Radeon HD 4330]
 9580  RV630 [Radeon HD 2600 PRO]
 9581  RV630/M76 [Mobility Radeon HD 2600]
 9583  RV630/M76 [Mobility Radeon HD 2600 XT/2700]
  106b 0083  iMac 7,1
  1734 1107  Mobility Radeon HD 2700
 9586  RV630 XT [Radeon HD 2600 XT AGP]
 9587  RV630 PRO [Radeon HD 2600 PRO AGP]
 9588  RV630 XT [Radeon HD 2600 XT]
  1458 216c  Radeon HD 2600 XT, 256MB GDDR3, 2x DVI, TV-out, PCIe (GV-RX26T256H)
 9589  RV630 PRO [Radeon HD 2600 PRO]
# Rebranded HD 2600 PRO
  1787 3000  Radeon HD 3610
 958a  RV630 [Radeon HD 2600 X2]
 958b  RV630/M76 [Mobility Radeon HD 2600 XT]
 958c  RV630 GL [FireGL V5600]
```

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 13cc 3d18  MXRT-5200
958d  RV630 GL [FireGL V3600]
9591  RV635/M86 [Mobility Radeon HD 3650]
 1002 9591  Mobility Radeon HD 3650
9593  RV635/M86 [Mobility Radeon HD 3670]
9595
 RV635/M86 GL [Mobility FireGL V5700]
9596  RV635 PRO [Radeon HD 3650 AGP]
 1043 0028  EAH3650 SILENT/HTDI/512M/A
9597  RV635 PRO [Radeon HD 3650 AGP]
9598  RV635 [Radeon HD 3650/3750/4570/4580]
 1002 9598  Mobility Radeon HD 3600
 1043 01d6  EAH3650 Silent
 1043 3001  Radeon HD 4570
 174b 3001  Radeon HD 3750
 174b 4580  RV635 PRO [Radeon HD 4580]
 17af 3011  RV635 PRO [Radeon HD 4580]
9599  RV635 PRO [Radeon HD 3650 AGP]
95c0  RV620 PRO [Radeon HD 3470]
 1002 95c0  Mobility Radeon HD 3470
95c2  RV620/M82 [Mobility Radeon HD 3410/3430]
95c4  RV620/M82 [Mobility Radeon HD 3450/3470]
 1002 95c4  Mobility Radeon HD 3400
95c5  RV620 LE [Radeon HD 3450]
 1028 0342  OptiPlex 980
95c6  RV620 LE [Radeon HD 3450 AGP]
95c9  RV620 LE [Radeon HD 3450 PCI]
95cc  RV620 GL [FirePro V3700]
95cd  RV620 GL [FirePro 2450]
95cf  RV620 GL [FirePro 2260]
960f  RS780 HDMI Audio [Radeon 3000/3100 / HD 3200/3300]
9610  RS780 [Radeon HD 3200]
 1458 d000  GA-MA78GM-S2H Motherboard
9611
 RS780C [Radeon 3100]
9612  RS780M [Mobility Radeon HD 3200]
9613  RS780MC [Mobility Radeon HD 3100]
9614  RS780D [Radeon HD 3300]
9616  RS780L [Radeon 3000]
9640  Sumo [Radeon HD 6550D]
9641  Sumo [Radeon HD 6620G]
9642  SuperSumo [Radeon HD 6370D]
9643  SuperSumo [Radeon HD 6380G]
9644  SuperSumo [Radeon HD 6410D]
9645  SuperSumo [Radeon HD 6410D]
9647  Sumo [Radeon HD 6520G]
9648  Sumo [Radeon HD 6480G]
9649  SuperSumo [Radeon HD 6480G]
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964a  Sumo [Radeon HD 6530D]
964b  Sumo
964c  Sumo
964e  Sumo
964f  Sumo
970f  RS880 HDMI Audio [Radeon HD 4200 Series]
 1019 2120  A785GM-M
 1043 83a2  M4A785TD Motherboard
 1043 843e  M5A88-V EVO
9710  RS880 [Radeon HD 4200]
 1019 2120  A785GM-M
 1043 83a2  M4A785TD Motherboard
9712  RS880M [Mobility Radeon HD 4225/4250]
 103c 1609  ProLiant MicroServer N36L
9713  RS880M [Mobility Radeon HD 4100]
9714  RS880 [Radeon HD 4290]
9715  RS880 [Radeon HD 4250]
 1043 843e  M5A88-V EVO
# Radeon HD 6250 too?
9802  Wrestler
[Radeon HD 6310]
 174b 1001  PURE Fusion Mini
9803  Wrestler [Radeon HD 6310]
9804  Wrestler [Radeon HD 6250]
9805  Wrestler [Radeon HD 6250]
9806  Wrestler [Radeon HD 6320]
9807  Wrestler [Radeon HD 6290]
9808  Wrestler [Radeon HD 7340]
9809  Wrestler [Radeon HD 7310]
980a  Wrestler [Radeon HD 7290]
9830  Kabini [Radeon HD 8400 / R3 Series]
9831  Kabini [Radeon HD 8400E]
9832  Kabini [Radeon HD 8330]
 1849 9832  QC5000-ITX/PH
9833  Kabini [Radeon HD 8330E]
9834  Kabini [Radeon HD 8210]
9835  Kabini [Radeon HD 8310E]
9836  Kabini [Radeon HD 8280 / R3 Series]
9837  Kabini [Radeon HD 8280E]
9838  Kabini [Radeon HD 8240 / R3 Series]
9839  Kabini [Radeon HD 8180]
983d  Temash [Radeon HD 8250/8280G]
9840  Kabini HDMI/DP Audio
 1849 9840  QC5000-ITX/PH
9850  Mullins [Radeon R3 Graphics]
9851  Mullins [Radeon R4/R5 Graphics]
 1179 f928  Beema [Radeon R5 Graphics]
9852  Mullins [Radeon R2 Graphics]
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9853  Mullins [Radeon R2 Graphics]
9854  Mullins [Radeon R3E Graphics]
9855
 Mullins [Radeon R6 Graphics]
9856  Mullins [Radeon R1E/R2E Graphics]
9857  Mullins [Radeon APU XX-2200M with R2 Graphics]
9858  Mullins
9859  Mullins
985a  Mullins
985b  Mullins
985c  Mullins
985d  Mullins
985e  Mullins
985f  Mullins
9874  Wani [Radeon R5/R6/R7 Graphics]
 1002 1871  Radeon R5 Graphics
 1002 1e20  Radeon R7 Graphics
 1028 06bd  Radeon R6 Graphics
 103c 2b44  Radeon R6 Graphics
 103c 8221  Radeon R5 Graphics
 103c 8223  Radeon R5 Graphics
 103c 8238  Radeon R7 Graphics
 103c 8353  Radeon R7 Graphics
 1458 d000  Radeon R7 Graphics
 17aa 5113  Radeon R6 Graphics
 17aa 5116  Radeon R6 Graphics
 17aa 5118  Radeon R5 Graphics
9890  Amur
98c0  Nolan
98e4  Stoney [Radeon R2/R3/R4/R5 Graphics]
9900  Trinity [Radeon HD 7660G]
 103c 1985  Pavilion 17-e163sg Notebook PC
# AMD A10-5800K CPU
9901  Trinity [Radeon HD 7660D]
9902  Trinity HDMI Audio Controller
 103c 194e  ProBook 455 G1 Notebook
 103c 1985  Pavilion 17-e163sg Notebook PC
9903
 Trinity [Radeon HD 7640G]
 103c 194e  ProBook 455 G1 Notebook
 103c 1952  ProBook 455 G1 Notebook
9904  Trinity [Radeon HD 7560D]
9905  Trinity GL [FirePro A300]
9906  Trinity GL [FirePro A320]
9907  Trinity [Radeon HD 7620G]
9908  Trinity [Radeon HD 7600G]
9909  Trinity [Radeon HD 7500G]
990a  Trinity [Radeon HD 7500G]
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990b  Richland [Radeon HD 8650G]
990c  Richland [Radeon HD 8670D]
990d  Richland [Radeon HD 8550G]
990e  Richland [Radeon HD 8570D]
990f  Richland [Radeon HD 8610G]
9910  Trinity [Radeon HD 7660G]
9913  Trinity [Radeon HD 7640G]
9917  Trinity [Radeon HD 7620G]
9918  Trinity [Radeon HD 7600G]
9919  Trinity [Radeon HD 7500G]
991e  Bishop
9920  Liverpool [Playstation 4 APU]
9921  Liverpool HDMI/DP Audio Controller
9922  Starshp
9923  Starsha2 [Kingston/Clayton]
9924  Gladius
9925  Kingston/Clayton/Jupiter/Gladius/Montego HDMI Controller
9926  Jupiter
9990  Trinity 2 [Radeon HD 7520G]
9991  Trinity 2 [Radeon HD 7540D]
9992  Trinity 2 [Radeon
HD 7420G]
9993  Trinity 2 [Radeon HD 7480D]
9994  Trinity 2 [Radeon HD 7400G]
9995  Richland [Radeon HD 8450G]
9996  Richland [Radeon HD 8470D]
9997  Richland [Radeon HD 8350G]
9998  Richland [Radeon HD 8370D]
9999  Richland [Radeon HD 8510G]
999a  Richland [Radeon HD 8410G]
999b  Richland [Radeon HD 8310G]
999c  Richland [Radeon HD 8650D]
# AMD Quad-Core A8-Series APU A8-6500T with Radeon HD 8550D
999d  Richland [Radeon HD 8550D]
99a0  Trinity 2 [Radeon HD 7520G]
99a2  Trinity 2 [Radeon HD 7420G]
99a4  Trinity 2 [Radeon HD 7400G]
aa00  R600 HDMI Audio [Radeon HD 2900 GT/PRO/XT]
aa01  RV635 HDMI Audio [Radeon HD 3650/3730/3750]
aa08  RV630 HDMI Audio [Radeon HD 2600 PRO/XT / HD 3610]
aa10  RV610 HDMI Audio [Radeon HD 2350 PRO / 2400 PRO/XT / HD 3410]
 174b aa10  Radeon HD 2400 PRO
 18bc aa10  Radeon HD 2400 PRO
aa18  RV670/680 HDMI Audio [Radeon HD 3690/3800 Series]
aa20  RV635 HDMI Audio [Radeon HD 3650/3730/3750]
aa28  RV620 HDMI Audio [Radeon HD 3450/3470/3550/3570]
aa30
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 RV770 HDMI Audio [Radeon HD 4850/4870]
 174b aa30  Radeon HD 4850 512MB GDDR3 PCI-E Dual Slot Fansink
aa38  RV710/730 HDMI Audio [Radeon HD 4000 series]
 103c 3628  dv6-1190en
aa50  Cypress HDMI Audio [Radeon HD 5830/5850/5870 / 6850/6870 Rebrand]
aa58  Juniper HDMI Audio [Radeon HD 5700 Series]
# 5500, 5600 and mobile 5700 series
aa60  Redwood HDMI Audio [Radeon HD 5000 Series]
 1025 033d  Mobility Radeon HD 5650
 1025 0347  Aspire 7740G
aa68  Cedar HDMI Audio [Radeon HD 5400/6300/7300 Series]
 1028 aa68  XPS 8300
aa80  Cayman/Antilles HDMI Audio [Radeon HD 6930/6950/6970/6990]
aa88  Barts HDMI Audio [Radeon HD 6790/6850/6870 / 7720 OEM]
aa90  Turks HDMI Audio [Radeon HD 6500/6600 / 6700M Series]
 1028 04a3  Precision M4600
aa98  Caicos HDMI Audio [Radeon HD 6450 / 7450/8450/8490 OEM / R5 230/235/235X OEM]
 174b aa98  Radeon HD 6450 1GB DDR3
aaa0  Tahiti HDMI Audio [Radeon HD 7870 XT / 7950/7970]
aab0  Oland/Hainan/Cape Verde/Pitcairn HDMI Audio [Radeon
HD 7000 Series]
aab8  Tiran HDMI Audio
aac0  Tobago HDMI Audio [Radeon R7 360 / R9 360 OEM]
aac8  Hawaii HDMI Audio [Radeon R9 290/290X / 390/390X]
aad8  Tonga HDMI Audio [Radeon R9 285/380]
 174b aad8  Radeon R9 285/380 HDMI Audio
aae0  Baffin HDMI/DP Audio [Radeon RX 550 640SP / RX 560/560X]
aae8  Fiji HDMI/DP Audio [Radeon R9 Nano / FURY/FURY X]
aaf0  Ellesmere HDMI Audio [Radeon RX 470/480 / 570/580/590]
aaf8  Vega 10 HDMI Audio [Radeon Vega 56/64]
ab00  Baffin HDMI/DP Audio [Radeon RX 550 640SP / RX 560/560X]
ab08  Polaris 22 HDMI Audio
ab10  Lexa HDMI Audio
ab18  Vega 12 HDMI Audio
ab20  Vega 20 HDMI Audio [Radeon VII]
ab38  Navi 10 HDMI Audio
ac00  Theater 506 World-Wide Analog Decoder
ac01  Theater 506 World-Wide Analog Decoder
ac02  TV Wonder HD 600 PCIe
ac03  Theater 506 PCIe
ac04  Theater 506 USB
ac05  Theater 506 USB
ac06  Theater 506 External USB
ac07  Theater 506 External USB
ac08  Theater 506A World-Wide Analog Decoder + Demodulator
ac09  Theater
506A World-Wide Analog Decoder + Demodulator
ac0a  Theater 506A PCIe
```

ac0b Theater 506A PCIe
ac0c Theater 506A USB
ac0d Theater 506A USB
ac0e Theater 506A External USB
ac0f Theater 506A External USB
ac12 Theater HD T507 (DVB-T) TV tuner/capture device
cab0 RS100 Host Bridge
cab2 RS200 Host Bridge
cab3 RS250 Host Bridge
cbb2 RS200 Host Bridge
1003 ULSI Systems
0201 US201
1004 VLSI Technology Inc
0005 82C592-FC1
0006 82C593-FC1
0007 82C594-AFC2
0008 82C596/7 [Wildcat]
0009 82C597-AFC2
000c 82C541 [Lynx]
000d 82C543 [Lynx]
0101 82C532
0102 82C534 [Eagle]
0103 82C538
0104 82C535
0105 82C147
0200 82C975
0280 82C925
0304 QSound ThunderBird PCI Audio
1004 0304 QSound ThunderBird PCI Audio
122d 1206 DSP368 Audio
1483 5020 XWave Thunder 3D Audio
0305 QSound ThunderBird PCI Audio Gameport
1004 0305 QSound ThunderBird PCI Audio Gameport
122d 1207 DSP368 Audio Gameport
1483 5021 XWave Thunder 3D Audio Gameport
0306 QSound
ThunderBird PCI Audio Support Registers
1004 0306 QSound ThunderBird PCI Audio Support Registers
122d 1208 DSP368 Audio Support Registers
1483 5022 XWave Thunder 3D Audio Support Registers
0307 SAA7785 ThunderBird PCI Audio
1004 0703 Philips Rhythmic Edge PSC703
1004 0705 Philips Seismic Edge PSC705
1004 0706 Philips Acoustic Edge PSC706
0308 SAA7785 ThunderBird PCI Audio Gameport
0702 VAS96011 [Golden Gate II]
0703 Tollgate
1005 Avance Logic Inc. [ALI]

2064 ALG2032/2064
2128 ALG2364A
2301 ALG2301
2302 ALG2302
2364 ALG2364
2464 ALG2364A
2501 ALG2564A/25128A
1006 Reply Group
1007 NetFrame Systems Inc
1008 Epson
100a Phoenix Technologies
100b National Semiconductor Corporation
0001 DP83810
0002 87415/87560 IDE
000e 87560 Legacy I/O
000f FireWire Controller
0011 NS87560 National PCI System I/O
0012 USB Controller
0020 DP83815 (MacPhyter) Ethernet Controller
103c 0024 Pavilion ze4400 builtin Network
12d9 000c Aculab E1/T1
PMXc cPCI carrier card
1385 f311 FA311 / FA312 (FA311 with WoL HW)
1385 f312 FA312 (rev. A1) Fast Ethernet PCI Adapter
0021 PC87200 PCI to ISA Bridge
0022 DP83820 10/100/1000 Ethernet Controller
1186 4900 DGE-500T
1385 621a GA621
1385 622a GA622T
0028 Geode GX2 Host Bridge
002a CS5535 South Bridge
002b CS5535 ISA bridge
002d CS5535 IDE
002e CS5535 Audio
002f CS5535 USB
0030 Geode GX2 Graphics Processor
0035 DP83065 [Saturn] 10/100/1000 Ethernet Controller
0500 SCx200 Bridge
0501 SCx200 SMI
0502 SCx200, SC1100 IDE controller
100b 0502 IDE Controller
0503 SCx200, SC1100 Audio Controller
100b 0503 XpressAudio controller
0504 SCx200 Video
0505 SCx200 XBus
0510 SC1100 Bridge
100b 0500 GPIO and LPC support bridge
0511 SC1100 SMI & ACPI

100b 0501 SC1100 SMI & ACPI bridge
0515 SC1100 XBus
100b 0505 SC1100 PCI to XBus bridge
d001 87410 IDE
100c Tseng Labs Inc
3202 ET4000/W32p rev A
3205 ET4000/W32p rev B
3206 ET4000/W32p
rev C
3207 ET4000/W32p rev D
3208 ET6000
4702 ET6300
100d AST Research Inc
100e Weitek
9000 P9000 Viper
9001 P9000 Viper
9002 P9000 Viper
9100 P9100 Viper Pro/SE
1010 Video Logic, Ltd.
1011 Digital Equipment Corporation
0001 DECchip 21050
0002 DECchip 21040 [Tulip]
0004 DECchip 21030 [TGA]
0007 NVRAM [Zephyr NVRAM]
0008 KZPSA [KZPSA]
0009 DECchip 21140 [FasterNet]
1025 0310 21140 Fast Ethernet
10b8 2001 SMC9332BDT EtherPower 10/100
10b8 2002 SMC9332BVT EtherPower T4 10/100
10b8 2003 SMC9334BDT EtherPower 10/100 (1-port)
1109 2400 ANA-6944A/TX Fast Ethernet
1112 2300 RNS2300 Fast Ethernet
1112 2320 RNS2320 Fast Ethernet
1112 2340 RNS2340 Fast Ethernet
1113 1207 EN-1207-TX Fast Ethernet
1186 1100 DFE-500TX Fast Ethernet
1186 1112 DFE-570TX Fast Ethernet
1186 1140 DFE-660 Cardbus Ethernet 10/100
1186 1142 DFE-660 Cardbus Ethernet 10/100
11f6 0503 Freedomline Fast Ethernet
1282 9100 AEF-380TXD Fast Ethernet
1385
1100 FA310TX Fast Ethernet
2646 0001 KNE100TX Fast Ethernet
000a 21230 Video Codec
000d PBXGB [TGA2]
000f DEFPA FDDI PCI-to-PDQ Interface Chip [PFI]
1011 def1 FDDI controller (DEFPA)

103c def1 FDDI controller (3X-DEFPA)
0014 DECchip 21041 [Tulip Pass 3]
1186 0100 DE-530+
0016 DGLPB [OPPO]
0017 PV-PCI Graphics Controller (ZLXp-L)
0018 Memory Channel interface
0019 DECchip 21142/43
1011 500a DE500A Fast Ethernet
1011 500b DE500B Fast Ethernet
1014 0001 10/100 EtherJet Cardbus
1025 0315 ALN315 Fast Ethernet
1033 800c PC-9821-CS01 100BASE-TX Interface Card
1033 800d PC-9821NR-B06 100BASE-TX Interface Card
103c 125a 10/100Base-TX (PCI) [A5506B]
108d 0016 Rapidfire 2327 10/100 Ethernet
108d 0017 GoCard 2250 Ethernet 10/100 Cardbus
10b8 2005 SMC8032DT Extreme Ethernet 10/100
10b8 8034 SMC8034 Extreme Ethernet 10/100
10ef 8169 Cardbus Fast Ethernet
1109 2a00 ANA-6911A/TX Fast Ethernet
1109 2b00 ANA-6911A/TXC Fast Ethernet
1109
3000 ANA-6922/TX Fast Ethernet
1113 1207 Cheetah Fast Ethernet
1113 2220 Cardbus Fast Ethernet
115d 0002 Cardbus Ethernet 10/100
1179 0203 Fast Ethernet
1179 0204 Cardbus Fast Ethernet
1186 1100 DFE-500TX Fast Ethernet
1186 1101 DFE-500TX Fast Ethernet
1186 1102 DFE-500TX Fast Ethernet
1186 1112 DFE-570TX Quad Fast Ethernet
11f0 4235 21143 [FASTLine-II UTP 10/100]
1259 2800 AT-2800Tx Fast Ethernet
1266 0004 Eagle Fast EtherMAX
12af 0019 NetFlyer Cardbus Fast Ethernet
1374 0001 Cardbus Ethernet Card 10/100
1374 0002 Cardbus Ethernet Card 10/100
1374 0007 Cardbus Ethernet Card 10/100
1374 0008 Cardbus Ethernet Card 10/100
1385 2100 FA510
1395 0001 10/100 Ethernet CardBus PC Card
13d1 ab01 EtherFast 10/100 Cardbus (PCMPC200)
1498 000a TPMC880-10 10/100Base-T and 10Base2 PMC Ethernet Adapter
1498 000b TPMC880-11 Single 10/100Base-T PMC Ethernet Adapter
1498 000c TPMC880-12 Single 10Base2 PMC Ethernet Adapter
14cb

0100 LNDL-100N 100Base-TX Ethernet PC Card
1668 2000 FastNet Pro (PE2000)
2646 0001 KNE100TX
2646 0002 KNE-CB4TX
8086 0001 EtherExpress PRO/100 Mobile CardBus 32
001a Farallon PN9000SX Gigabit Ethernet
0021 DECchip 21052
0022 DECchip 21150
0023 DECchip 21150
0024 DECchip 21152
0025 DECchip 21153
0026 DECchip 21154
0034 56k Modem Cardbus
1374 0003 56k Modem Cardbus
0045 DECchip 21553
0046 DECchip 21554
0e11 4050 Smart Array 4200 Controller
0e11 4051 Smart Array 4250ES Controller
0e11 4058 Smart Array 431 Controller
103c 10c2 NetRAID-4M
12d9 000a IP Telephony card
4c53 1050 CT7 mainboard
4c53 1051 CE7 mainboard
9005 0364 5400S (Mustang)
9005 0365 5400S (Mustang)
9005 1364 Dell PowerEdge RAID Controller 2
9005 1365 Dell PowerEdge RAID Controller 2
e4bf 1000 CC8-1-BLUES
1065 StrongARM DC21285
1069 0020 DAC960P / DAC1164P
1012 Micronics Computers Inc
1013 Cirrus Logic
0038 GD 7548
0040 GD 7555 Flat Panel
GUI Accelerator
004c GD 7556 Video/Graphics LCD/CRT Ctrlr
00a0 GD 5430/40 [Alpine]
00a2 GD 5432 [Alpine]
00a4 GD 5434-4 [Alpine]
00a8 GD 5434-8 [Alpine]
00ac GD 5436 [Alpine]
00b0 GD 5440
00b8 GD 5446
1af4 1100 QEMU Virtual Machine
00bc GD 5480
1013 00bc CL-GD5480
00d0 GD 5462
00d2 GD 5462 [Laguna I]

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00d4  GD 5464 [Laguna]
00d5  GD 5464 BD [Laguna]
00d6  GD 5465 [Laguna]
 13ce 8031  Barco Metheus 2 Megapixel, Dual Head
 13cf 8031  Barco Metheus 2 Megapixel, Dual Head
00e8  GD 5436U
1100  CL 6729
1110  PD 6832 PCMCIA/CardBus Ctrlr
1112  PD 6834 PCMCIA/CardBus Ctrlr
1113  PD 6833 PCMCIA/CardBus Ctrlr
1200  GD 7542 [Nordic]
1202  GD 7543 [Viking]
1204  GD 7541 [Nordic Light]
4000  MD 5620 [CLM Data Fax Voice]
4400  CD 4400
6001  CS 4610/11 [CrystalClear SoundFusion Audio Accelerator]
 1014 1010  CS4610 SoundFusion Audio Accelerator
6003  CS 4614/22/24/30 [CrystalClear SoundFusion Audio Accelerator]
 1013 4280  Crystal SoundFusion PCI Audio Accelerator
 1014
0153  ThinkPad 600X/A20m
 153b 112e  DMX XFire 1024
 153b 1136  SiXPack 5.1+
 1681 0050  Game Theater XP
 1681 a010  Gamesurround Fortissimo II
 1681 a011  Gamesurround Fortissimo III 7.1
 5053 3357  Santa Cruz
6004  CS 4614/22/24 [CrystalClear SoundFusion Audio Accelerator]
6005  Crystal CS4281 PCI Audio
 1013 4281  Crystal CS4281 PCI Audio
 10cf 10a8  Crystal CS4281 PCI Audio
 10cf 10a9  Crystal CS4281 PCI Audio
 10cf 10aa  Crystal CS4281 PCI Audio
 10cf 10ab  Crystal CS4281 PCI Audio
 10cf 10ac  Crystal CS4281 PCI Audio
 10cf 10ad  Crystal CS4281 PCI Audio
 10cf 10b4  Crystal CS4281 PCI Audio
 1179 0001  Crystal CS4281 PCI Audio
 14c0 000c  Crystal CS4281 PCI Audio
1014  IBM
0002  PCI to MCA Bridge
0005  Processor to I/O Controller [Alta Lite]
0007  Processor to I/O Controller [Alta MP]
000a  PCI to ISA Bridge (IBM27-82376) [Fire Coral]
0017  CPU to PCI Bridge
0018  TR Auto LANstreamer
001b  GXT-150P
001c  Carrera
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001d  SCSI-2 FAST PCI Adapter
(82G2675)
0020  GXT1000 Graphics Adapter
0022  PCI to PCI Bridge (IBM27-82351)
002d  Processor to I/O Controller [Python]
002e  SCSI RAID Adapter [ServeRAID]
 1014 002e  ServeRAID-3x
 1014 022e  ServeRAID-4H
0031  2 Port Serial Adapter
# AS400 iSeries PCI sync serial card
 1014 0031  2721 WAN IOA - 2 Port Sync Serial Adapter
0036  PCI to 32-bit LocalBus Bridge [Miami]
0037  PowerPC to PCI Bridge (IBM27-82660)
003a  CPU to PCI Bridge
003c  GXT250P/GXT255P Graphics Adapter
003e  16/4 Token ring UTP/STP controller
 1014 003e  Token-Ring Adapter
 1014 00cd  Token-Ring Adapter + Wake-On-LAN
 1014 00ce  16/4 Token-Ring Adapter 2
 1014 00cf  16/4 Token-Ring Adapter Special
 1014 00e4  High-Speed 100/16/4 Token-Ring Adapter
 1014 00e5  16/4 Token-Ring Adapter 2 + Wake-On-LAN
 1014 016d  iSeries 2744 Card
0045  SSA Adapter
0046  MPIC interrupt controller
0047  PCI to PCI Bridge
0048  PCI to PCI Bridge
0049  Warhead SCSI Controller
004e  ATM Controller (14104e00)
004f
 ATM Controller (14104f00)
0050  ATM Controller (14105000)
0053  25 MBit ATM Controller
0054  GXT500P/GXT550P Graphics Adapter
0057  MPEG PCI Bridge
0058  SSA Adapter [Advanced SerialRAID/X]
005e  GXT800P Graphics Adapter
007c  ATM Controller (14107c00)
007d  3780IDSP [MWave]
008b  EADS PCI to PCI Bridge
008e  GXT3000P Graphics Adapter
0090  GXT 3000P
 1014 008e  GXT-3000P
0091  SSA Adapter
0095  20H2999 PCI Docking Bridge
0096  Chukar chipset SCSI controller
 1014 0097  iSeries 2778 DASD IOA
 1014 0098  iSeries 2763 DASD IOA
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1014 0099 iSeries 2748 DASD IOA
009f PCI 4758 Cryptographic Accelerator
00a5 ATM Controller (1410a500)
00a6 ATM 155MBPS MM Controller (1410a600)
00b7 GXT2000P Graphics Adapter
1092 00b8 FireGL1 AGP 32Mb
00b8 GXT2000P Graphics Adapter
00be ATM 622MBPS Controller (1410be00)
00dc Advanced Systems Management Adapter (ASMA)
00fc CPC710 Dual Bridge and Memory Controller (PCI-64)
0105 CPC710 Dual Bridge and Memory Controller
(PCI-32)
010f Remote Supervisor Adapter (RSA)
0142 Yotta Video Compositor Input
1014 0143 Yotta Input Controller (ytin)
0144 Yotta Video Compositor Output
1014 0145 Yotta Output Controller (ytout)
0156 405GP PLB to PCI Bridge
015e 622Mbps ATM PCI Adapter
0160 64bit/66MHz PCI ATM 155 MMF
016e GXT4000P Graphics Adapter
0170 GXT6000P Graphics Adapter
1092 0172 Fire GL2
1092 0173 Fire GL3
1092 0174 Fire GL4
1092 0184 Fire GL4s
017d GXT300P Graphics Adapter
0180 Snipe chipset SCSI controller
1014 0241 iSeries 2757 DASD IOA
1014 0264 Quad Channel PCI-X U320 SCSI RAID Adapter (2780)
0188 EADS-X PCI-X to PCI-X Bridge
01a7 PCI-X to PCI-X Bridge
01bd ServeRAID Controller
1014 01bd ServeRAID 4Lx
1014 01be ServeRAID-4M
1014 01bf ServeRAID-4L
1014 0208 ServeRAID-4Mx
1014 020e ServeRAID-4Lx
1014 022e ServeRAID-4H
1014 0258 ServeRAID-5i
1014 0259 ServeRAID-5i
01c1 64bit/66MHz PCI ATM 155 UTP
01e6 Cryptographic Accelerator
01ef
PowerPC 440GP PCI Bridge
1734 102b PCEAS PCI-X Dual Port ESCON Adapter
1734 10f8 PCEAT PCI-Express Dual Port ESCON Adapter
01ff 10/100 Mbps Ethernet

0219 Multiport Serial Adapter
 1014 021a Dual RVX
 1014 0251 Internal Modem/RVX
 1014 0252 Quad Internal Modem
021b GXT6500P Graphics Adapter
021c GXT4500P Graphics Adapter
0233 GXT135P Graphics Adapter
028c Citrine chipset SCSI controller
 1014 028d Dual Channel PCI-X DDR SAS RAID Adapter (572E)
 1014 02be Dual Channel PCI-X DDR U320 SCSI RAID Adapter (571B)
 1014 02c0 Dual Channel PCI-X DDR U320 SCSI Adapter (571A)
 1014 030d PCI-X DDR Auxiliary Cache Adapter (575B)
02a1 Calgary PCI-X Host Bridge
02bd Obsidian chipset SCSI controller
 1014 02c1 PCI-X DDR 3Gb SAS Adapter (572A/572C)
 1014 02c2 PCI-X DDR 3Gb SAS RAID Adapter (572B/571D)
 1014 0338 PCI-X DDR Auxiliary Cache Adapter (575C)
0302 Winnipeg PCI-X Host Bridge
0308 CalIOC2 PCI-E Root Port
0311 FC 5740/1954 4-Port 10/100/1000 Base-TX
PCI-X Adapter for POWER
0314 ZISC 036 Neural accelerator card
032d Axon - Cell Companion Chip
 1014 03a1 PCIe PowerXCell 8i Cell Accelerator Board
0339 Obsidian-E PCI-E SCSI controller
 1014 030a PCIe 3Gb SAS RAID Adapter (574E)
 1014 033a PCIe 3Gb SAS Adapter (57B3)
 1014 035c PCIe x8 Internal 3Gb SAS adapter (57CC)
 1014 0360 PCI-E Auxiliary Cache Adapter (57B7)
033d PCI-E IPR SAS Adapter (FPGA)
 1014 033c PCIe2 1.8GB Cache 6Gb SAS RAID Adapter Tri-port (57B5)
 1014 0353 PCIe2 3.1GB Cache 6Gb SAS RAID Enclosure (57C3)
 1014 0354 PCIe2 6Gb SAS Adapter Dual-port (57C4)
 1014 0356 PCIe2 1.8GB Cache 6Gb SAS RAID & SSD Adapter (574D)
 1014 035f PCIe2 6Gb SAS Adapter Quad-port (57B2)
034a PCI-E IPR SAS Adapter (ASIC)
 1014 033b PCIe2 6Gb SAS RAID Adapter Quad-port (57B4)
 1014 0355 PCIe2 3.6GB Cache 6Gb SAS RAID Adapter Quad-port (57B1)
 1014 0357 PCIe2 6Gb SAS Adapter Quad-port (57C6)
 1014 035d PCIe3 1.8GB Cache RAID SAS Adapter Quad-port 6GB (57C8)
 1014
035e PCIe2 3.6GB Cache 6Gb SAS RAID Adapter Quad-port (57CE)
 1014 03fb PCIe3 28GB Cache RAID SAS Enclosure 6Gb x 16 (57D5)
 1014 03fe PCIe3 x8 Cache SAS RAID Internal Adapter 6Gb (57D8)
 1014 03ff PCIe3 x8 SAS RAID Internal Adapter 6Gb (57D7)
 1014 0474 PCIe3 x16 Cache SAS RAID Internal Adapter 6Gb (57EB)
 1014 0475 PCIe3 x16 SAS RAID Internal Adapter 6Gb (57EC)
 1014 0499 PCIe3 x16 Cache SAS RAID Internal Adapter 6Gb (57ED)

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 1014 049a  PCIe3 x16 SAS RAID Internal Adapter 6Gb (57EE)
 1014 04c7  PCIe3 x 8 Cache SAS RAID Internal Adapter 6GB(2CCA)
 1014 04c8  PCIe3 x 8 Cache SAS RAID Internal Adapter 6GB(2CD2)
 1014 04c9  PCIe3 x 8 Cache SAS RAID Internal Adapter 6GB(2CCD)
03dc  POWER8 Host Bridge (PHB3)
044b  GenWQE Accelerator Adapter
04aa  Flash Adapter 90 (PCIe2 0.9TB)
04c1  POWER9 Host Bridge (PHB4)
04da  PCI-E IPR SAS+ Adapter (ASIC)
 1014 04fb  PCIe3 x16 20GB Cache 12Gb Quad SAS RAID+ Adapter(580B)
 1014 04fc  PCIe3 x8 12Gb Quad SAS RAID+ Adapter(580A)
04ed
 Internal Shared Memory (ISM) virtual PCI device
3022  QLA3022 Network Adapter
4022  QLA3022 Network Adapter
ffff  MPIC-2 interrupt controller
1015  LSI Logic Corp of Canada
1016  ICL Personal Systems
1017  SPEA Software AG
5343  SPEA 3D Accelerator
1018  Unisys Systems
1019  Elitegroup Computer Systems
101a  AT&T GIS (NCR)
0005  100VG ethernet
0007  BYNET BIC4G/2C/2G
 101a 0019  BYNET BIC2C
 101a 001c  BYNET BIC2G
 101a 001f  BYNET BIC4G
0009  PQS Memory Controller
000a  BYNET BPCI Adapter
000b  BYNET 4 Port BYA Switch (BYA4P)
000c  BYNET 4 Port BYA Switch (BYA4G)
0010  NCR AMC Memory Controller
1dc1  BYNET BIC2M/BIC4M/BYA4M
 101a 0019  BIC2M
 101a 001f  BIC4M
 101a 0ece  BYA4M
1fa8  BYNET Multi-port BIC Adapter (XBIC Based)
 101a 00c3  BYNET BIC2SE
101b  Vitesse Semiconductor
# Maxim VSC452 Super BMC Controller with Video
0452  VSC452 [SuperBMC]
101c  Western Digital
0193  33C193A
0196  33C196A
0197  33C197A
0296  33C296A
3193  7193
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3197  7197
3296
 33C296A
4296  34C296
9710  Pipeline 9710
9712  Pipeline 9712
c24a  90C
# ID for Newly Acquired Storage Products from Vitesse
101d  Maxim Integrated Products
101e  American Megatrends Inc.
0009  MegaRAID 428 Ultra RAID Controller (rev 03)
1960  MegaRAID
 101e 0471  MegaRAID 471 Enterprise 1600 RAID Controller
 101e 0475  MegaRAID 475 Express 500/500LC RAID Controller
 101e 0477  MegaRAID 477 Elite 3100 RAID Controller
 101e 0493  MegaRAID 493 Elite 1600 RAID Controller
 101e 0494  MegaRAID 494 Elite 1650 RAID Controller
 101e 0503  MegaRAID 503 Enterprise 1650 RAID Controller
 101e 0511  MegaRAID 511 i4 IDE RAID Controller
 101e 0522  MegaRAID 522 i4133 RAID Controller
 1028 0471  PowerEdge RAID Controller 3/QC
 1028 0475  PowerEdge RAID Controller 3/SC
 1028 0493  PowerEdge RAID Controller 3/DC
 1028 0511  PowerEdge Cost Effective RAID Controller ATA100/4Ch
 103c 60e7  NetRAID-1M
 103c 60e8  NetRaid 2M [AMI MegaRaid 493]
9010  MegaRAID 428 Ultra RAID Controller
9030
 EIDE Controller
9031  EIDE Controller
9032  EIDE & SCSI Controller
9033  SCSI Controller
9040  Multimedia card
9060  MegaRAID 434 Ultra GT RAID Controller
9063  MegaRAC
 101e 0767  Dell Remote Assistant Card 2
101f  PictureTel
1020  Hitachi Computer Products
1021  OKI Electric Industry Co. Ltd.
1022  Advanced Micro Devices, Inc. [AMD]
1100  K8 [Athlon64/Opteron] HyperTransport Technology Configuration
1101  K8 [Athlon64/Opteron] Address Map
1102  K8 [Athlon64/Opteron] DRAM Controller
1103  K8 [Athlon64/Opteron] Miscellaneous Control
1200  Family 10h Processor HyperTransport Configuration
1201  Family 10h Processor Address Map
1202  Family 10h Processor DRAM Controller
1203  Family 10h Processor Miscellaneous Control
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1204 Family 10h Processor Link Control
1300 Family 11h Processor HyperTransport Configuration
1301 Family 11h Processor Address Map
1302 Family 11h Processor DRAM Controller
1303 Family 11h Processor Miscellaneous Control
1304 Family
11h Processor Link Control
1305 Griffin Function 5
1306 Griffin Function 6
1307 Griffin Function 7
1308 Kaveri Audio Controller
1314 Wrestler/Bheem/Ontario/Krishna Audio Controller
13e0 Ariel Root Complex
13e1 Ariel IOMMU
13e2 Ariel PCIe Dummy Host Bridge
13e3 Ariel PCIe GPP Bridge
13e4 Ariel PCIe Dummy Host Bridge
13e5 Ariel Internal PCIe GPP Bridge 0 to Bus A
13e6 Ariel Internal PCIe GPP Bridge 0 to Bus B
13e7 Ariel SMBus Controller
13e8 Ariel LPC Bridge
13e9 Ariel Internal GPU
13ea Ariel HD Audio Controller
13eb Ariel HD Audio Coprocessor
13ec Ariel Cryptographic Coprocessor
13ed Ariel USB 3.1 Type C: Gen2 x 1port + DP Alt Mode
13ee Ariel USB 3.1 Type A: Gen2 x 2 ports
13ef Ariel ZCN/MP4
13f0 Ariel Device 24: Function 0
13f1 Ariel Device 24: Function 1
13f2 Ariel Device 24: Function 2
13f3 Ariel Device 24: Function 3
13f4 Ariel Device 24: Function 4
13f5 Ariel Device 24: Function 5
13f6 Ariel Device 24: Function 6
13f7 Ariel
Device 24: Function 7
1400 Family 15h (Models 10h-1fh) Processor Function 0
1401 Family 15h (Models 10h-1fh) Processor Function 1
1402 Family 15h (Models 10h-1fh) Processor Function 2
1403 Family 15h (Models 10h-1fh) Processor Function 3
1404 Family 15h (Models 10h-1fh) Processor Function 4
1405 Family 15h (Models 10h-1fh) Processor Function 5
1410 Family 15h (Models 10h-1fh) Processor Root Complex
103c 1985 Pavilion 17-e163sg Notebook PC
1412 Family 15h (Models 10h-1fh) Processor Root Port
1022 1234 Trinity A-series APU
1413 Family 15h (Models 10h-1fh) Processor Root Port

1414 Family 15h (Models 10h-1fh) Processor Root Port
1022 1234 Trinity A-series APU
1415 Family 15h (Models 10h-1fh) Processor Root Port
1416 Family 15h (Models 10h-1fh) Processor Root Port
1417 Family 15h (Models 10h-1fh) Processor Root Port
1418 Family 15h (Models 10h-1fh) Processor Root Port
1419 Family 15h (Models 10h-1fh) I/O Memory Management Unit
141a Family 15h (Models
30h-3fh) Processor Function 0
141b Family 15h (Models 30h-3fh) Processor Function 1
141c Family 15h (Models 30h-3fh) Processor Function 2
141d Family 15h (Models 30h-3fh) Processor Function 3
141e Family 15h (Models 30h-3fh) Processor Function 4
141f Family 15h (Models 30h-3fh) Processor Function 5
1422 Family 15h (Models 30h-3fh) Processor Root Complex
1423 Family 15h (Models 30h-3fh) I/O Memory Management Unit
1424 Family 15h (Models 30h-3fh) Processor Root Port
1425 Kaveri P2P Bridge for GFX PCIe Port [1:0]
1426 Family 15h (Models 30h-3fh) Processor Root Port
142e Liverpool Processor HT configuration
142f Liverpool Processor Address Maps
1430 Liverpool Processor DRAM configuration
1431 Liverpool Processor Misc configuration
1432 Liverpool Processor PM configuration
1433 Liverpool Processor NB Performance Monitor
1434 Liverpool Processor SPLL Configuration
1436 Liverpool Processor Root Complex
1437 Liverpool I/O Memory Management Unit
1438 Liverpool
UMI PCIe Dummy Host Bridge
1439 Family 16h Processor Functions 5:1
143a Kingston/Clayton/Gladius/Montego Root Complex
143b Kingston/Clayton/Gladius/Montego P2P Bridge for UMI Link
1440 Matisse Device 24: Function 0
1441 Matisse Device 24: Function 1
1442 Matisse Device 24: Function 2
1443 Matisse Device 24: Function 3
1444 Matisse Device 24: Function 4
1445 Matisse Device 24: Function 5
1446 Matisse Device 24: Function 6
1447 Matisse Device 24: Function 7
1448 Renoir Device 24: Function 0
1449 Renoir Device 24: Function 1
144a Renoir Device 24: Function 2
144b Renoir Device 24: Function 3
144c Renoir Device 24: Function 4
144d Renoir Device 24: Function 5
144e Renoir Device 24: Function 6

144f Renoir Device 24: Function 7
1450 Family 17h (Models 00h-0fh) Root Complex
1451 Family 17h (Models 00h-0fh) I/O Memory Management Unit
1452 Family 17h (Models 00h-1fh) PCIe Dummy Host Bridge
1453 Family 17h (Models 00h-0fh) PCIe GPP Bridge
1454
Family 17h (Models 00h-0fh) Internal PCIe GPP Bridge 0 to Bus B
1455 Zeppelin/Renoir PCIe Dummy Function
1456 Family 17h (Models 00h-0fh) Platform Security Processor
1457 Family 17h (Models 00h-0fh) HD Audio Controller
145a Zeppelin/Raven/Raven2 PCIe Dummy Function
145b Zeppelin Non-Transparent Bridge
145c Family 17h (Models 00h-0fh) USB 3.0 Host Controller
145d Zeppelin Switch Upstream (PCIE SW.US)
145e Zeppelin Switch Downstream (PCIE SW.DS)
145f Zeppelin USB 3.0 Host controller
1460 Family 17h (Models 00h-0fh) Data Fabric: Device 18h; Function 0
1461 Family 17h (Models 00h-0fh) Data Fabric: Device 18h; Function 1
1462 Family 17h (Models 00h-0fh) Data Fabric: Device 18h; Function 2
1463 Family 17h (Models 00h-0fh) Data Fabric: Device 18h; Function 3
1464 Family 17h (Models 00h-0fh) Data Fabric: Device 18h; Function 4
1465 Family 17h (Models 00h-0fh) Data Fabric: Device 18h; Function 5
1466 Family 17h (Models 00h-0fh) Data Fabric: Device 18h; Function
6
1467 Family 17h (Models 00h-0fh) Data Fabric: Device 18h; Function 7
1468 Zeppelin Cryptographic Coprocessor NTBCCP
1480 Starship/Matisse Root Complex
1462 7c37 X570-A PRO motherboard
1481 Starship/Matisse IOMMU
1482 Starship/Matisse PCIe Dummy Host Bridge
1483 Starship/Matisse GPP Bridge
1484 Starship/Matisse Internal PCIe GPP Bridge 0 to bus[E:B]
1485 Starship/Matisse Reserved SPP
1486 Starship/Matisse Cryptographic Coprocessor PSPCPP
1487 Starship/Matisse HD Audio Controller
1462 9c37 X570-A PRO motherboard
1488 Starship Reserved SSP
1489 Starship Reserved SSP
148a Starship/Matisse PCIe Dummy Function
148b Starship/Matisse Non-Transparent Bridge
148c Starship USB 3.0 Host Controller
148d Starship/Matisse Switch Upstream (PCIE SW.US)
148e Starship/Matisse Switch Downstream (PCIE SW.DS)
148f Starship Reserved SSP
1490 Starship Device 24; Function 0
1491 Starship Device 24; Function 1
1492 Starship Device 24; Function 2
1493 Starship

Device 24; Function 3
1494 Starship Device 24; Function 4
1495 Starship Device 24; Function 5
1496 Starship Device 24; Function 6
1497 Starship Device 24; Function 7
1498 Starship/Matisse PTDMA
1499 Starship/Matisse NVMe
149a Starship PCIe GPP Bridge [1:0]
149b Starship Reserved SSP
149c Matisse USB 3.0 Host Controller
1462 7c37 X570-A PRO motherboard
1510 Family 14h Processor Root Complex
174b 1001 PURE Fusion Mini
1512 Family 14h Processor Root Port
1513 Family 14h Processor Root Port
1514 Family 14h Processor Root Port
1515 Family 14h Processor Root Port
1516 Family 14h Processor Root Port
1530 Family 16h Processor Function 0
1531 Family 16h Processor Function 1
1532 Family 16h Processor Function 2
1533 Family 16h Processor Function 3
1534 Family 16h Processor Function 4
1535 Family 16h Processor Function 5
1536 Family 16h Processor Root Complex
1849 1536 QC5000-ITX/PH
1537 Kabini/Mullins PSP-Platform Security Processor
1538
Family 16h Processor Function 0
1539 Kabini P2P Bridge for PCIe Ports[4:0]
1540 Kryptos/Cato/Garfield/Garfield+/Arlene/Pooky HT Configuration
1541 Kryptos/Cato/Garfield/Garfield+/Arlene/Pooky Address Maps
1542 Kryptos/Cato/Garfield/Garfield+/Arlene/Pooky DRAM Configuration
1543 Kryptos/Cato/Garfield/Garfield+/Arlene/Pooky Miscellaneous Configuration
1544 Kryptos/Cato/Garfield/Garfield+/Arlene/Pooky PM Configuration
1545 Kryptos/Cato/Garfield/Garfield+/Arlene/Pooky NB Performance Monitor
1546 Kryptos/Cato/Garfield/Garfield+/Arlene/Pooky Root Complex
1547 Kryptos/Cato/Garfield/Garfield+/Arlene/Pooky IOMMU
1548 Kryptos/Cato/Garfield/Garfield+/Arlene/Pooky UMI PCIe Dummy Host Bridge
1549 Kryptos/Cato/Garfield/Garfield+ P2P Bridge for PCIe Port [3:0]
154a Kryptos/Cato/Garfield/Garfield+/Arlene/Pooky Audio Processor
154b Kryptos/Cato/Garfield/Garfield+/Arlene/Pooky Security Processor
154d Kryptos/Cato/Garfield/Garfield+/Arlene/Pooky/Anubis HDMI Controller
154f
Anubis Audio Processor
1550 Garfield+/Arlene/Pooky/Anubis SPLL Configuration
1553 Arlene/Pooky P2P Bridge for PCIE (3:0)
155b Anubis Root Complex

155c Anubis IOMMU
155d Anubis UMI PCIe Dummy Bridge
155e Anubis P2P Bridge for PCIe Ports [4:0]
1560 Anubis Security Processor
1566 Family 16h (Models 30h-3fh) Processor Root Complex
1567 Mullins IOMMU
156b Family 16h (Models 30h-3fh) Host Bridge
1570 Family 15h (Models 60h-6fh) Processor Function 0
1571 Family 15h (Models 60h-6fh) Processor Function 1
1572 Family 15h (Models 60h-6fh) Processor Function 2
1573 Family 15h (Models 60h-6fh) Processor Function 3
1574 Family 15h (Models 60h-6fh) Processor Function 4
1575 Family 15h (Models 60h-6fh) Processor Function 5
1576 Family 15h (Models 60h-6fh) Processor Root Complex
1577 Family 15h (Models 60h-6fh) I/O Memory Management Unit
1578 Carrizo Platform Security Processor
1579 Carrizo Audio Processor
157a Family 15h (Models 60h-6fh) Audio Controller
157b
Family 15h (Models 60h-6fh) Host Bridge
157c Family 15h (Models 60h-6fh) Processor Root Port
157d Carrizo Audio Dummy Host Bridge
157e Carrizo Audio Controller
1580 Family 16h (Models 30h-3fh) Processor Function 0
1581 Family 16h (Models 30h-3fh) Processor Function 1
1582 Family 16h (Models 30h-3fh) Processor Function 2
1583 Family 16h (Models 30h-3fh) Processor Function 3
1584 Family 16h (Models 30h-3fh) Processor Function 4
1585 Family 16h (Models 30h-3fh) Processor Function 5
1590 Amur/Nolan HT Configuration
1591 Amur/Nolan Address Maps
1592 Amur/Nolan DRAM Configuration
1593 Amur/Nolan Miscellaneous Configuration
1594 Amur/Nolan PM Configuration
1595 Amur/Nolan NB Performance Monitor
1596 Amur/Nolan Root Complex
1597 Amur/Nolan IOMMU
1598 Amur/Nolan Platform Security Processor
1599 Amur/Nolan PCIe Dummy Host Bridge
159d Amur Function 6: Gasket
15b0 Stoney HT Configuration
15b1 Stoney Address Maps
15b2 Stoney DRAM Configuration
15b3
Stoney Miscellaneous Configuration
15b4 Stoney PM Configuration
15b5 Stoney NB Performance Monitor
15bc Stoney PCIe [GFX,GPP] Bridge [4:0]

15be Stoney Audio Processor
15d0 Raven/Raven2 Root Complex
 103c 8615 Pavilion Laptop 15-cw1xxx
15d1 Raven/Raven2 IOMMU
 103c 8615 Pavilion Laptop 15-cw1xxx
15d2 Raven/Raven2 PCIe Dummy Host Bridge
15d3 Raven/Raven2 PCIe GPP Bridge [6:0]
15d4 FireFlight USB 3.1
15d5 FireFlight USB 3.1
15da Raven/Raven2 PCIe Dummy Host Bridge
15db Raven/Raven2 Internal PCIe GPP Bridge 0 to Bus A
15dc Raven/Raven2 Internal PCIe GPP Bridge 0 to Bus B
15de Raven/Raven2/FireFlight HD Audio Controller
15df Family 17h (Models 10h-1fh) Platform Security Processor
 17aa 5124 ThinkPad E595
15e0 Raven USB 3.1
 103c 8615 Pavilion Laptop 15-cw1xxx
 17aa 5124 ThinkPad E595
15e1 Raven USB 3.1
 103c 8615 Pavilion Laptop 15-cw1xxx
 17aa 5124 ThinkPad E595
15e2 Raven/Raven2/FireFlight/Renoir Audio Processor
 17aa 5124 ThinkPad E595
15e3
 Family 17h (Models 10h-1fh) HD Audio Controller
 103c 8615 Pavilion Laptop 15-cw1xxx
 17aa 5124 ThinkPad E595
15e4 Raven/Raven2/Renoir Sensor Fusion Hub
15e5 Raven2 USB 3.1
15e6 Raven/Raven2/Renoir Non-Sensor Fusion Hub KMDF driver
 1022 15e4 Raven/Raven2/Renoir Sensor Fusion Hub
15e8 Raven/Raven2 Device 24: Function 0
15e9 Raven/Raven2 Device 24: Function 1
15ea Raven/Raven2 Device 24: Function 2
15eb Raven/Raven2 Device 24: Function 3
15ec Raven/Raven2 Device 24: Function 4
15ed Raven/Raven2 Device 24: Function 5
15ee Raven/Raven2 Device 24: Function 6
15ef Raven/Raven2 Device 24: Function 7
15f0 FireFlight Device 24: Function 0
15f1 FireFlight Device 24: Function 1
15f2 FireFlight Device 24: Function 2
15f3 FireFlight Device 24: Function 3
15f4 FireFlight Device 24: Function 4
15f5 FireFlight Device 24: Function 5
15f6 FireFlight Device 24: Function 6
15f7 FireFlight Device 24: Function 7
15f8 FireFlight Root Complex

15f9 FireFlight
IOMMU
15fa FireFlight PCIe Dummy Host Bridge
15fb FireFlight PCIe GPP Bride 3:0
15fc FireFlight PCIe Dummy Host Bridge
15fd FireFlight Internal PCIe GPP Bridge 0 to Bus A
15fe FireFlight Internal PCIe GPP Bridge 0 to Bus B
15ff FireFlight Bus A; Device 0: Function 0: Internal GPU
1600 Family 15h Processor Function 0
1601 Family 15h Processor Function 1
1602 Family 15h Processor Function 2
1603 Family 15h Processor Function 3
1604 Family 15h Processor Function 4
1605 Family 15h Processor Function 5
1606 Arden Security Processor
1608 Arden Device 18h: Function 0
1609 Arden Device 18h: Function 1
160a Arden Device 18h: Function 2
160b Arden Device 18h: Function 3
160c Arden Device 18h: Function 4
160d Arden Device 18h: Function 5
160e Arden Device 18h: Function 6
160f Arden Device 18h: Function 7
1620 Anubis HT Configuration
1621 Anubis Address Maps
1622 Anubis DRAM Configuration
1623 Anubis Miscellaneous Configuration
1624 Anubis
PM Configuration
1625 Anubis NB Performance Monitor
1626 Arden Root Complex
1627 Arden IOMMU
1628 Arden PCIe Dummy Host Bridge
1629 Arden PCIe GPP Bridge
162a Arden Internal PCIe GPP Bridge 0 to bus X
162b Arden PCIe Non-Transparent Bridge
1630 Renoir Root Complex
1631 Renoir IOMMU
1632 Renoir PCIe Dummy Host Bridge
1633 Renoir PCIe GPP Bridge
1634 Renoir PCIe GPP Bridge
1635 Renoir Internal PCIe GPP Bridge to Bus
1637 Renoir HD Audio Controller
1639 Renoir USB 3.1
1641 Renoir 10GbE Controller Port 0 (XGBE0/1)
1642 Renoir WLAN
1643 Renoir BT
1644 Renoir I2S

1700 Family 12h/14h Processor Function 0
1701 Family 12h/14h Processor Function 1
1702 Family 12h/14h Processor Function 2
1703 Family 12h/14h Processor Function 3
1704 Family 12h/14h Processor Function 4
1705 Family 12h Processor Root Complex
1706 Llano P2P Bridge to external GPU
1707 Family 12h Processor Root Port
1708 Family 12h Processor Root Port
1709 Family 12h Processor
Root Port
170a Family 12h Processor Root Port
170b Family 12h Processor Root Port
170c Family 12h Processor Root Port
170d Family 12h Processor Root Port
1716 Family 12h/14h Processor Function 5
1718 Family 12h/14h Processor Function 6
1719 Family 12h/14h Processor Function 7
2000 79c970 [PCnet32 LANCE]
 1014 2000 NetFinity 10/100 Fast Ethernet
 1022 2000 PCnet - Fast 79C971
 103c 104c Ethernet with LAN remote power Adapter
 103c 1064 Ethernet with LAN remote power Adapter
 103c 1065 Ethernet with LAN remote power Adapter
 103c 106c Ethernet with LAN remote power Adapter
 103c 106e Ethernet with LAN remote power Adapter
 103c 10ea Ethernet with LAN remote power Adapter
 1113 1220 EN1220 10/100 Fast Ethernet
 1259 2450 AT-2450 10/100 Fast Ethernet
 1259 2454 AT-2450v4 10Mb Ethernet Adapter
 1259 2700 AT-2700TX 10/100 Fast Ethernet
 1259 2701 AT-2700FX 100Mb Ethernet
 1259 2702 AT-2700FTX 10/100 Mb Fiber/Copper Fast Ethernet
 1259 2703 AT-2701FX
 1259
2704 AT-2701FTX 10/100 Mb Fiber/Copper Fast Ethernet
 4c53 1000 CC7/CR7/CP7/VC7/VP7/VR7 mainboard
 4c53 1010 CP5/CR6 mainboard
 4c53 1020 VR6 mainboard
 4c53 1030 PC5 mainboard
 4c53 1040 CL7 mainboard
 4c53 1060 PC7 mainboard
2001 79c978 [HomePNA]
 1092 0a78 Multimedia Home Network Adapter
 1668 0299 ActionLink Home Network Adapter
2003 Am 1771 MBW [Alchemy]
2020 53c974 [PCscsi]
 1af4 1100 QEMU Virtual Machine

2040 79c974
2080 CS5536 [Geode companion] Host Bridge
2081 Geode LX Video
2082 Geode LX AES Security Block
208f CS5536 GeodeLink PCI South Bridge
2090 CS5536 [Geode companion] ISA
2091 CS5536 [Geode companion] FLASH
2093 CS5536 [Geode companion] Audio
2094 CS5536 [Geode companion] OHC
2095 CS5536 [Geode companion] EHC
2096 CS5536 [Geode companion] UDC
2097 CS5536 [Geode companion] UOC
209a CS5536 [Geode companion] IDE
3000 ELanSC520 Microcontroller
43a0 Hudson PCI to PCI bridge (PCIE port 0)
43a1 Hudson PCI to
PCI bridge (PCIE port 1)
43a2 Hudson PCI to PCI bridge (PCIE port 2)
43a3 Hudson PCI to PCI bridge (PCIE port 3)
43b0 X370 Series Chipset PCIe Upstream Port
 1849 43c6 Fatal1ty X370 Professional Gaming
43b1 X399 Series Chipset PCIe Bridge
43b4 300 Series Chipset PCIe Port
43b5 X370 Series Chipset SATA Controller
 1849 43c8 Fatal1ty X370 Professional Gaming
43b6 X399 Series Chipset SATA Controller
43b7 300 Series Chipset SATA Controller
43b9 X370 Series Chipset USB 3.1 xHCI Controller
 1849 43d0 Fatal1ty X370 Professional Gaming
43ba X399 Series Chipset USB 3.1 xHCI Controller
43bb 300 Series Chipset USB 3.1 xHCI Controller
43c6 400 Series Chipset PCIe Bridge
43c7 400 Series Chipset PCIe Port
43c8 400 Series Chipset SATA Controller
43d5 400 Series Chipset USB 3.1 XHCI Controller
57a3 Matisse PCIe GPP Bridge
57a4 Matisse PCIe GPP Bridge
57ad Matisse Switch Upstream
7006 AMD-751 [Irongate] System Controller
7007 AMD-751 [Irongate] AGP Bridge
700a
 AMD-IGR4 AGP Host to PCI Bridge
700b AMD-IGR4 PCI to PCI Bridge
700c AMD-760 MP [IGD4-2P] System Controller
700d AMD-760 MP [IGD4-2P] AGP Bridge
700e AMD-760 [IGD4-1P] System Controller
700f AMD-760 [IGD4-1P] AGP Bridge
7400 AMD-755 [Cobra] ISA

7401 AMD-755 [Cobra] IDE
7403 AMD-755 [Cobra] ACPI
7404 AMD-755 [Cobra] USB
7408 AMD-756 [Viper] ISA
7409 AMD-756 [Viper] IDE
740b AMD-756 [Viper] ACPI
740c AMD-756 [Viper] USB
7410 AMD-766 [ViperPlus] ISA
7411 AMD-766 [ViperPlus] IDE
7413 AMD-766 [ViperPlus] ACPI
7414 AMD-766 [ViperPlus] USB
7440 AMD-768 [Opus] ISA
 1043 8044 A7M-D Mainboard
7441 AMD-768 [Opus] IDE
7443 AMD-768 [Opus] ACPI
 1043 8044 A7M-D Mainboard
7445 AMD-768 [Opus] Audio
7446 AMD-768 [Opus] MC97 Modem
7448 AMD-768 [Opus] PCI
7449 AMD-768 [Opus] USB
7450 AMD-8131 PCI-X Bridge
7451 AMD-8131 PCI-X IOAPIC
7454 AMD-8151 System Controller
7455 AMD-8151 AGP Bridge
7458 AMD-8132 PCI-X Bridge
7459 AMD-8132 PCI-X
IOAPIC
7460 AMD-8111 PCI
 161f 3017 HDAMB
7461 AMD-8111 USB
7462 AMD-8111 Ethernet
7463 AMD-8111 USB EHCI
7464 AMD-8111 USB OHCI
 161f 3017 HDAMB
7468 AMD-8111 LPC
 161f 3017 HDAMB
7469 AMD-8111 IDE
 1022 2b80 AMD-8111 IDE [Quartet]
 161f 3017 HDAMB
746a AMD-8111 SMBus 2.0
746b AMD-8111 ACPI
 161f 3017 HDAMB
746d AMD-8111 AC97 Audio
 161f 3017 HDAMB
746e AMD-8111 MC97 Modem
756b AMD-8111 ACPI
7800 FCH SATA Controller [IDE mode]
7801 FCH SATA Controller [AHCI mode]

103c 168b ProBook 4535s Notebook
103c 194e ProBook 455 G1 Notebook
17aa 3988 Z50-75
1849 7801 QC5000-ITX/PH
7802 FCH SATA Controller [RAID mode]
7803 FCH SATA Controller [RAID mode]
7804 FCH SATA Controller [AHCI mode]
103c 1985 Pavilion 17-e163sg Notebook PC
7805 FCH SATA Controller [RAID mode]
7806 FCH SD Flash Controller
7807 FCH USB OHCI Controller
103c 194e ProBook 455 G1 Notebook
103c 1985 Pavilion 17-e163sg Notebook PC
17aa 3988 Z50-75
1849
7807 QC5000-ITX/PH
7808 FCH USB EHCI Controller
103c 194e ProBook 455 G1 Notebook
103c 1985 Pavilion 17-e163sg Notebook PC
17aa 3988 Z50-75
1849 7808 QC5000-ITX/PH
7809 FCH USB OHCI Controller
103c 194e ProBook 455 G1 Notebook
17aa 3988 Z50-75
780a Kabini/Mullins SATA Raid/AHCI Mode (DotHill driver)
780b FCH SMBus Controller
103c 194e ProBook 455 G1 Notebook
103c 1985 Pavilion 17-e163sg Notebook PC
17aa 3988 Z50-75
1849 780b QC5000-ITX/PH
780c FCH IDE Controller
780d FCH Azalia Controller
103c 194e ProBook 455 G1 Notebook
103c 1985 Pavilion 17-e163sg Notebook PC
1043 8444 F2A85-M Series
17aa 3988 Z50-75
1849 8892 QC5000-ITX/PH
780e FCH LPC Bridge
103c 194e ProBook 455 G1 Notebook
103c 1985 Pavilion 17-e163sg Notebook PC
17aa 3988 Z50-75
1849 780e QC5000-ITX/PH
780f FCH PCI Bridge
7812 FCH USB XHCI Controller
7813 FCH SD Flash Controller
7814 FCH USB XHCI Controller
103c 194e ProBook 455 G1 Notebook
103c

1985 Pavilion 17-e163sg Notebook PC
17aa 3988 Z50-75
1849 7814 QC5000-ITX/PH
7900 FCH SATA Controller [IDE mode]
7901 FCH SATA Controller [AHCI mode]
103c 8615 Pavilion Laptop 15-cw1xxx
1462 7c37 X570-A PRO motherboard
7902 FCH SATA Controller [RAID mode]
7903 FCH SATA Controller [RAID mode]
7904 FCH SATA Controller [AHCI mode]
7906 FCH SD Flash Controller
7908 FCH USB EHCI Controller
790b FCH SMBus Controller
103c 8615 Pavilion Laptop 15-cw1xxx
1462 7c37 X570-A PRO motherboard
17aa 5124 ThinkPad E595
790e FCH LPC Bridge
103c 8615 Pavilion Laptop 15-cw1xxx
1462 7c37 X570-A PRO motherboard
17aa 5124 ThinkPad E595
790f FCH PCI Bridge
7914 FCH USB XHCI Controller
9600 RS780 Host Bridge
1043 82ee M378A-CM Motherboard
1043 82f1 M3A78-EH Motherboard
9601 RS880 Host Bridge
1019 2120 A785GM-M
103c 1609 ProLiant MicroServer N36L
1043 83a2 M4A785-M Mainboard
1043 843e M5A88-V EVO
9602 RS780/RS880 PCI to PCI bridge (int
gfx)
9603 RS780 PCI to PCI bridge (ext gfx port 0)
103c 1609 ProLiant MicroServer N36L
9604 RS780/RS880 PCI to PCI bridge (PCIE port 0)
9605 RS780/RS880 PCI to PCI bridge (PCIE port 1)
9606 RS780 PCI to PCI bridge (PCIE port 2)
103c 1609 ProLiant MicroServer N36L
9607 RS780/RS880 PCI to PCI bridge (PCIE port 3)
9608 RS780/RS880 PCI to PCI bridge (PCIE port 4)
9609 RS780/RS880 PCI to PCI bridge (PCIE port 5)
960a RS780 PCI to PCI bridge (NB-SB link)
960b RS780 PCI to PCI bridge (ext gfx port 1)
1023 Trident Microsystems
0194 82C194
2000 4DWave DX
2001 4DWave NX
122d 1400 Trident PCI288-Q3DII (NX)

2100 CyberBlade XP4m32
2200 XGI Volari XP5
8400 CyberBlade/i7
 1023 8400 CyberBlade i7 AGP
8420 CyberBlade/i7d
 0e11 b15a CyberBlade i7 AGP
8500 CyberBlade/i1
8520 CyberBlade i1
 0e11 b16e CyberBlade i1 AGP
 1023 8520 CyberBlade i1 AGP
8620 CyberBlade/i1
 1014 0502 ThinkPad R30/T30
 1014 1025 Travelmate 352TE
8820 CyberBlade XPAi1
9320
 TGUI 9320
9350 GUI Accelerator
9360 Flat panel GUI Accelerator
9382 Cyber 9382 [Reference design]
9383 Cyber 9383 [Reference design]
9385 Cyber 9385 [Reference design]
9386 Cyber 9386
9388 Cyber 9388
9397 Cyber 9397
939a Cyber 9397DVD
9420 TGUI 9420
9430 TGUI 9430
9440 TGUI 9440
9460 TGUI 9460
9470 TGUI 9470
9520 Cyber 9520
9525 Cyber 9525
9540 Cyber 9540
9660 TGUI 9660/938x/968x
9680 TGUI 9680
9682 TGUI 9682
9683 TGUI 9683
9685 ProVIDIA 9685
9750 3DImage 9750
 1014 9750 3DImage 9750
 1023 9750 3DImage 9750
9753 TGUI 9753
9754 TGUI 9754
9759 TGUI 975
9783 TGUI 9783
9785 TGUI 9785
9850 3DImage 9850
9880 Blade 3D PCI/AGP

1023 9880 Blade 3D
9910 CyberBlade/XP
9930 CyberBlade/XPm
9960 CyberBlade XP2
1024 Zenith Data Systems
1025 Acer Incorporated [ALI]
1435 M1435
1445 M1445
1449 M1449
1451 M1451
1461 M1461
1489 M1489
1511 M1511
1512 ALI M1512 Aladdin
1513 M1513
1521 ALI M1521 Aladdin III
CPU Bridge
10b9 1521 ALI M1521 Aladdin III CPU Bridge
1523 ALI M1523 ISA Bridge
10b9 1523 ALI M1523 ISA Bridge
1531 M1531 Northbridge [Aladdin IV/IV+]
1533 M1533 PCI-to-ISA Bridge
10b9 1533 ALI M1533 Aladdin IV/V ISA South Bridge
1535 M1535 PCI Bridge + Super I/O + FIR
1541 M1541 Northbridge [Aladdin V]
10b9 1541 ALI M1541 Aladdin V/V+ AGP+PCI North Bridge
1542 M1542 Northbridge [Aladdin V]
1543 M1543 PCI-to-ISA Bridge + Super I/O + FIR
1561 M1561 Northbridge [Aladdin 7]
1621 M1621 Northbridge [Aladdin-Pro II]
1631 M1631 Northbridge+3D Graphics [Aladdin TNT2]
1641 M1641 Northbridge [Aladdin-Pro IV]
1647 M1647 [MaGiK1] PCI North Bridge
1671 M1671 Northbridge [ALADDiN-P4]
1672 Northbridge [CyberALADDiN-P4]
3141 M3141
3143 M3143
3145 M3145
3147 M3147
3149 M3149
3151 M3151
3307 M3307 MPEG-I Video Controller
3309 M3309 MPEG-II Video w/ Software Audio Decoder
3321 M3321 MPEG-II Audio/Video Decoder
5212 M4803
5215 ALI PCI EIDE Controller
5217

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 M5217H
 5219  M5219
 5225  M5225
 5229  M5229
 5235  M5235
 5237  M5237 PCI USB Host Controller
 5240  EIDE Controller
 5241  PCMCIA Bridge
 5242  General Purpose Controller
 5243  PCI to PCI Bridge Controller
 5244  Floppy Disk Controller
 5247  M1541 PCI to PCI Bridge
 5251  M5251 P1394 Controller
 5427  PCI to AGP Bridge
 5451  M5451 PCI AC-Link Controller Audio Device
 5453  M5453 PCI AC-Link Controller Modem Device
 7101  M7101 PCI PMU Power Management Controller
  10b9 7101  M7101 PCI PMU Power Management Controller
# should be 1022:9602
 9602  AMD RS780/RS880 PCI to PCI bridge (int gfx)
1028  Dell
 0001  PowerEdge Expandable RAID Controller 2/Si
  1028 0001  PowerEdge 2400
 0002  PowerEdge Expandable RAID Controller 3/Di
  1028 0002  PowerEdge 4400
  1028 00d1  PERC 3/DiV [Viper]
  1028 00d9  PERC 3/DiL [Lexus]
 0003  PowerEdge Expandable RAID Controller 3/Si
  1028 0003  PowerEdge 2450
# PowerEdge Codename Iguana
 0004  PowerEdge Expandable RAID Controller 3/Di [Iguana]
  1028
 0004  PERC 3/DiF [Iguana]
 0006  PowerEdge Expandable RAID Controller 3/Di
 0007  Remote Access Card III
 0008  Remote Access Card III
 0009  Remote Access Card III: BMC/SMIC device not present
 000a  PowerEdge Expandable RAID Controller 3/Di
  1028 0106  PERC 3/DiJ [Jaguar]
  1028 011b  PERC 3/DiD [Dagger]
  1028 0121  PERC 3/DiB [Boxster]
 000c  Embedded Remote Access or ERA/O
 000d  Embedded Remote Access: BMC/SMIC device
 000e  PowerEdge Expandable RAID controller 4/Di
 000f  PowerEdge Expandable RAID controller 4/Di
  1028 014a  PowerEdge 1750
 0010  Remote Access Card 4
 0011  Remote Access Card 4 Daughter Card
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0012  Remote Access Card 4 Daughter Card Virtual UART
0013  PowerEdge Expandable RAID controller 4
 1028 016c  PowerEdge Expandable RAID Controller 4e/Si
 1028 016d  PowerEdge Expandable RAID Controller 4e/Di
 1028 016e  PowerEdge Expandable RAID Controller 4e/Di
 1028 016f  PowerEdge Expandable RAID Controller 4e/Di
 1028 0170  PowerEdge Expandable RAID
Controller 4e/Di
0014  Remote Access Card 4 Daughter Card SMIC interface
0015  PowerEdge Expandable RAID controller 5
 1028 1f01  PERC 5/E Adapter RAID Controller
 1028 1f02  PERC 5/i Adapter RAID Controller
 1028 1f03  PERC 5/i Integrated RAID Controller
0016  PowerEdge Expandable RAID controller S300
 1028 1f24  PERC S300 Controller
# NV-RAM Adapter used in Dell DR appliances
0073  NV-RAM Adapter
1029  Siemens Nixdorf IS
102a  LSI Logic
0000  HYDRA
0010  ASPEN
001f  AHA-2940U2/U2W /7890/7891 SCSI Controllers
 9005 000f  2940U2W SCSI Controller
 9005 0106  2940U2W SCSI Controller
 9005 a180  2940U2W SCSI Controller
00c5  AIC-7899 U160/m SCSI Controller
 1028 00c5  PowerEdge 2550/2650/4600
00cf  AIC-7899P U160/m
 1028 0106  PowerEdge 4600
 1028 0121  PowerEdge 2650
102b  Matrox Electronics Systems Ltd.
# DJ: I've a suspicion that 0010 is a duplicate of 0d10.
0010  MGA-I [Impression?]
0100  MGA 1064SG [Mystique]
0518  MGA-II [Athena]
0519  MGA 2064W [Millennium]
051a
 MGA 1064SG [Mystique]
 102b 0100  MGA-1064SG Mystique
 102b 1100  MGA-1084SG Mystique
 102b 1200  MGA-1084SG Mystique
 1100 102b  MGA-1084SG Mystique
 110a 0018  Scenic Pro C5 (D1025)
051b  MGA 2164W [Millennium II]
 102b 051b  MGA-2164W Millennium II
 102b 1100  MGA-2164W Millennium II
 102b 1200  MGA-2164W Millennium II
 102b 2100  MGA-2164W Millennium II
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051e MGA 1064SG [Mystique] AGP
051f MGA 2164W [Millennium II] AGP
102b 2100 MGA-2164WA [Millennium II A]
0520 MGA G200
102b dbc2 G200 Multi-Monitor
102b dbc8 G200 Multi-Monitor
102b dbe2 G200 Multi-Monitor
102b dbe8 G200 Multi-Monitor
102b ff03 Millennium G200 SD
102b ff04 Marvel G200
0521 MGA G200 AGP
1014 ff03 Millennium G200 AGP
102b 48e9 Mystique G200 AGP
102b 48f8 Millennium G200 SD AGP
102b 4a60 Millennium G200 LE AGP
102b 4a64 Millennium G200 AGP
102b c93c Millennium G200 AGP
102b c9b0 Millennium G200 AGP
102b c9bc Millennium G200 AGP
102b ca60 Millennium
G250 LE AGP
102b ca6c Millennium G250 AGP
102b dbbc Millennium G200 AGP
102b dbc2 Millennium G200 MMS (Dual G200)
102b dbc3 G200 Multi-Monitor
102b dbc8 Millennium G200 MMS (Dual G200)
102b dbd2 G200 Multi-Monitor
102b dbd3 G200 Multi-Monitor
102b dbd4 G200 Multi-Monitor
102b dbd5 G200 Multi-Monitor
102b dbd8 G200 Multi-Monitor
102b dbd9 G200 Multi-Monitor
102b dbe2 Millennium G200 MMS (Quad G200)
102b dbe3 G200 Multi-Monitor
102b dbe8 Millennium G200 MMS (Quad G200)
102b dbf2 G200 Multi-Monitor
102b dbf3 G200 Multi-Monitor
102b dbf4 G200 Multi-Monitor
102b dbf5 G200 Multi-Monitor
102b dbf8 G200 Multi-Monitor
102b dbf9 G200 Multi-Monitor
102b f806 Mystique G200 Video AGP
102b ff00 MGA-G200 AGP
102b ff02 Mystique G200 AGP
102b ff03 Millennium G200A AGP
102b ff04 Marvel G200 AGP
110a 0032 MGA-G200 AGP
0522 MGA G200e [Pilot] ServerEngines (SEP1)

103c 31fa ProLiant DL140 G3
0525 MGA G400/G450
0e11 b16f
MGA-G400 AGP
102b 0328 Millennium G400 16Mb SDRAM
102b 0338 Millennium G400 16Mb SDRAM
102b 0378 Millennium G400 32Mb SDRAM
102b 0541 Millennium G450 Dual Head
102b 0542 Millennium G450 Dual Head LX
102b 0543 Millennium G450 Single Head LX
102b 0641 Millennium G450 32Mb SDRAM Dual Head
102b 0642 Millennium G450 32Mb SDRAM Dual Head LX
102b 0643 Millennium G450 32Mb SDRAM Single Head LX
102b 07c0 Millennium G450 Dual Head LE
102b 07c1 Millennium G450 SDR Dual Head LE
102b 0d41 Millennium G450 Dual Head PCI
102b 0d42 Millennium G450 Dual Head LX PCI
102b 0d43 Millennium G450 32Mb Dual Head PCI
102b 0e00 Marvel G450 eTV
102b 0e01 Marvel G450 eTV
102b 0e02 Marvel G450 eTV
102b 0e03 Marvel G450 eTV
102b 0f80 Millennium G450 Low Profile
102b 0f81 Millennium G450 Low Profile
102b 0f82 Millennium G450 Low Profile DVI
102b 0f83 Millennium G450 Low Profile DVI
102b 19d8 Millennium G400 16Mb SGRAM
102b 19f8 Millennium G400
32Mb SGRAM
102b 2159 Millennium G400 Dual Head 16Mb
102b 2179 Millennium G400 MAX/Dual Head 32Mb
102b 217d Millennium G400 Dual Head Max
102b 23c0 Millennium G450
102b 23c1 Millennium G450
102b 23c2 Millennium G450 DVI
102b 23c3 Millennium G450 DVI
102b 2f58 Millennium G400
102b 2f78 Millennium G400
102b 3693 Marvel G400 AGP
102b 5dd0 4Sight II
102b 5f50 4Sight II
102b 5f51 4Sight II
102b 5f52 4Sight II
102b 9010 Millennium G400 Dual Head
1458 0400 GA-G400
1705 0001 Millennium G450 32MB SGRAM
1705 0002 Millennium G450 16MB SGRAM
1705 0003 Millennium G450 32MB

1705 0004 Millennium G450 16MB
0527 Parhelia
102b 0840 Parhelia 128Mb
102b 0850 Parhelia 256MB
102b 0870 MED2mp-DVI
102b 0880 P-256 Edge Overlap Controller
0528 Parhelia
102b 1020 Parhelia 128MB
102b 1030 Parhelia 256 MB Dual DVI
102b 1040 MED2mp-DVI
102b 1050 Sono S20
102b 1060 PJ-30L
102b 1070 PJ-40L
102b 1421 MED5mp
102b 1431 MED3mp-DVI
102b
1451 MED5mp-DVI
102b 1491 MED2mp-DVI
102b 14b1 MED3mp-DVI
102b 14c1 MED5mp-DVI
102b 14e1 Parhelia PCI 256MB
102b 14f1 Parhelia Precision SGT
102b 1501 ATC-4MP
102b 1511 ATC-4MP
102b 1521 TheatreVUE T30
102b 1531 TheatreVUE T20
102b 1541 MED2mp-DVI
102b 1551 MED3mp-DVI
102b 1561 MED5mp-DVI
102b 1571 Parhelia DL256 PCI
102b 1591 Parhelia Precision SDT
102b 15a1 MED4mp-DVI
102b 2011 Parhelia HR256
102b 2021 QID Pro
102b 2061 PJ-40LP
102b 2081 EWS Quad
102b 2411 PPX-OUT8
102b 2421 VPX-OUT8
102b 2441 PPX-OUT4
102b 2451 VPX-OUT4
102b 2491 LPX-OUT4
0530 MGA G200EV
0532 MGA G200eW WPCM450
1028 0235 PowerEdge R710 MGA G200eW WPCM450
1028 0236 PowerEdge R610 MGA G200eW WPCM450
1028 0237 PowerEdge T610 MGA G200eW WPCM450
1028 0287 PowerEdge M610 MGA G200eW WPCM450
1028 028c PowerEdge R410 MGA G200eW WPCM450

1028 028d PowerEdge T410 MGA G200eW WPCM450
1028 029c PowerEdge M710 MGA G200eW
WPCM450
1028 02a4 PowerEdge T310 MGA G200eW WPCM450
15d9 0605 X8SIL
15d9 0624 X9SCM-F Motherboard
15d9 066b X9SRL-F
15d9 a811 H8DGU
0533 MGA G200EH
103c 3381 iLO4
0534 G200eR2
1028 04f7 PowerEdge R320 server
0536 Integrated Matrox G200eW3 Graphics Controller
0538 MGA G200eH3
1590 00e4 iLO5 VGA
0540 M91XX
102b 2080 M9140 LP PCIe x16
102b 20c0 Xenia
102b 20c1 Xenia Pro
102b 2100 M9120 PCIe x16
102b 2140 M9125 PCIe x16
102b 2180 M9120 Plus LP PCIe x16
102b 21c0 M9120 Plus LP PCIe x1
102b 2200 VDA1164 Output Board
102b 2240 M9148 LP PCIe x16
102b 2241 M9138 LP PCIe x16
102b 2280 M9188 ATX PCIe x16
102b 22c0 M9128 LP PCIe x16
0550 SV2
102b 00c0 MURA-IPX-I4EF
102b 00c1 MURA-IPX-I4DF
102b 00c3 MURA-IPX-I4DHF
102b 00c5 MURA-IPX-I4EHF
0d10 MGA Ultima/Impression
1000 MGA G100 [Productiva]
102b ff01 Productiva G100
102b ff05 Productiva G100 Multi-Monitor
1001 MGA G100 [Productiva] AGP
102b 1001 MGA-G100
AGP
102b ff00 MGA-G100 AGP
102b ff01 MGA-G100 Productiva AGP
102b ff03 Millennium G100 AGP
102b ff04 MGA-G100 AGP
102b ff05 MGA-G100 Productiva AGP Multi-Monitor
110a 001e MGA-G100 AGP
2007 MGA Mistral
2527 Millennium G550

PCI\VEN_102B&DEV_2527&SUBSYS_0F42102B&REV_01
102b 0f42 Matrox G550 Low Profile PCI
102b 0f83 Millennium G550
102b 0f84 Millennium G550 Dual Head DDR 32Mb
102b 1e41 Millennium G550
102b 22c0 G550 PCIe
102b 2300 Millennium G550 LP PCIE
2537 Millennium P650/P750
102b 1820 Millennium P750 64MB
102b 1830 Millennium P650 64MB
102b 1850 RAD2mp
102b 1860 RAD3mp
102b 1880 Sono S10
102b 1c10 QID 128MB
102b 2811 Millennium P650 Low-profile PCI 64MB
102b 2821 Millennium P650 Low-profile PCI
102b 2841 RAD PCI
102b 2851 Spectrum PCI
102b 2871 EpicA TC2
102b 2c11 QID Low-profile PCI
102b 2c21 QID LP PCI LW
102b 2c31 QID LP PCI
102b 2c41 EpicA TC4
102b 3001 Extio F1400
102b 3011 Extio
F1220
102b 3041 RG-200DL
102b 3051 RG-400SL
102b 3061 Extio F1420
102b 3081 Extio F1240
2538 Millennium P650 PCIe
102b 0847 RAD PCIe
102b 08c7 Millennium P650 PCIe 128MB
102b 0907 Millennium P650 PCIe 64MB
102b 0947 Parhelia APVe
102b 0987 ATC PCIe 4MP
102b 1047 Millennium P650 LP PCIe 128MB
102b 1087 Millennium P650 LP PCIe 64MB
102b 1801 Millennium P650 PCIe x1
102b 2538 Parhelia APVe
102b 3007 QID Low-profile PCIe
102b 3087 Aurora VX3mp
102b 30c7 QID LP PCIe
2539 Millennium P690
102b 0040 Millennium P690 PCIe x16
102b 0042 ONYX
102b 0043 SPECTRA
102b 0080 Millennium P690 Plus LP PCIe x16

102b 0081 Millennium P690 LP PCIe x16
102b 0082 RAD LPX PCIe x16
102b 00c0 Millennium P690 Plus LP PCI
102b 00c2 Millennium P690 LP PCI
102b 00c3 RAD LPX PCI
102b 0101 Millennium P690 PCI
102b 0140 Millennium P690 LP PCIe x1
102b 0180 Display Wall IP Decode 128 MB
4164 Morphis QxT frame grabber
43b4 Morphis
Qxt encoding engine
4510 Morphis COM port
4536 VIA Framegrabber
4686 Concord GX (customized Intel 82541)
475b Solios eCL/XCL-B frame grabber
475d Vio frame grabber family
102b 4b90 Vio Duo frame grabber (single channel)
102b 4b91 Vio Duo frame grabber
102b 4b92 Vio Analog frame grabber
102b 4b93 Vio SDI Frame Grabber
102b 4b94 Vio DVI-A frame grabber
475f Solios (single-Full) CL frame grabber
102b 475f Solios eCL/XCL-F frame grabber
102b 4d5f Solios eV-CL (single-Full) frame grabber
102b 4e5f Solios eM-CL (single-Full) frame grabber
47a1 Solios eA/XA frame grabber
102b 4be0 Solios eA/XA (single) frame grabber
102b 4be1 Solios eA/XA (dual) frame grabber
102b 4be2 Solios eA/XA (quad) frame grabber
47a2 Solios COM port
47c1 Solios (dual-Base/single-Medium) CL frame grabber
102b 0000 Solios frame grabber
102b 4b80 Solios eCL/XCL (single-Medium) frame grabber
102b 4b81 Solios eCL/XCL (dual-Base) frame grabber
102b 4d80 Solios
eV-CL (single-Medium) frame grabber
102b 4d81 Solios eV-CL (dual-Base) frame grabber
102b 4e80 Solios eM-CL (single-Medium) frame grabber
102b 4e81 Solios eM-CL (dual-Base) frame grabber
47c2 Solios COM port
4949 Radient frame grabber family
102b 0010 Radient eCL (Single-full) frame grabber
102b 0011 Radient eCLV (Single-full) frame grabber
102b 0020 Radient eCL (Dual-base) frame grabber
102b 0030 Radient eCL (Dual-full) frame grabber
102b 0040 Radient eCL (Quad-base) frame grabber
102b 0050 Radient eCL (Golden) frame grabber
102b 1010 Radient eV-CXP (quad CXP-6) frame grabber

102b 1015 Radient eV-CXP (dual CXP-6) frame grabber
102b 1020 Radient eV-CXP (quad CXP-3) frame grabber
102b 1050 Radient eV-CXP (Golden) frame grabber
4cdc Morphis JPEG2000 accelerator
4f54 Morphis (e)Quad frame grabber
4fc5 Morphis (e)Dual frame grabber
5e10 Morphis aux I/O
6573 Shark 10/100 Multiport SwitchNIC
102c Chips and Technologies
00b8 F64310
00c0
F69000 HiQVideo
102c 00c0 F69000 HiQVideo
4c53 1000 CC7/CR7/CP7/VC7/VP7/VR7 mainboard
4c53 1010 CP5/CR6 mainboard
4c53 1020 VR6 mainboard
4c53 1030 PC5 mainboard
4c53 1050 CT7 mainboard
4c53 1051 CE7 mainboard
00d0 F65545
00d8 F65545
00dc F65548
00e0 F65550
00e4 F65554
00e5 F65555 HiQVPro
0e11 b049 Armada 1700 Laptop Display Controller
1179 0001 Satellite Pro/Satellite
00f0 F68554
00f4 F68554 HiQVision
00f5 F68555
0c30 F69030
4c53 1000 CC7/CR7/CP7/VC7/VP7/VR7 mainboard
4c53 1050 CT7 mainboard
4c53 1051 CE7 mainboard
4c53 1080 CT8 mainboard
102d Wyse Technology Inc.
50dc 3328 Audio
102e Olivetti Advanced Technology
102f Toshiba America
0009 r4x00
000a TX3927 MIPS RISC PCI Controller
0020 ATM Meteor 155
102f 00f8 ATM Meteor 155
0030 TC35815CF PCI 10/100 Mbit Ethernet Controller
0031 TC35815CF PCI 10/100 Mbit Ethernet Controller with WOL
0032 TC35815CF PCI 10/100 Mbit Ethernet Controller on TX4939
0105 TC86C001

[goku-s] IDE
0106 TC86C001 [goku-s] USB 1.1 Host
0107 TC86C001 [goku-s] USB Device Controller
0108 TC86C001 [goku-s] I2C/SIO/GPIO Controller
0180 TX4927/38 MIPS RISC PCI Controller
0181 TX4925 MIPS RISC PCI Controller
0182 TX4937 MIPS RISC PCI Controller
01b4 Celleb platform IDE interface
01b5 SCC USB 2.0 EHCI controller
01b6 SCC USB 1.1 OHCI controller
1030 TMC Research
1031 Miro Computer Products AG
5601 DC20 ASIC
5607 Video I/O & motion JPEG compressor
5631 Media 3D
6057 MiroVideo DC10/DC30+
1032 Compaq
1033 NEC Corporation
0000 Vr4181A USB Host or Function Control Unit
0001 PCI to 486-like bus Bridge
0002 PCI to VL98 Bridge
0003 ATM Controller
0004 R4000 PCI Bridge
0005 PCI to 486-like bus Bridge
0006 PC-9800 Graphic Accelerator
0007 PCI to UX-Bus Bridge
0008 PC-9800 Graphic Accelerator
0009 PCI to PC9800 Core-Graph Bridge
0016 PCI to VL Bridge
001a [Nile II]
0021 Vrc4373 [Nile I]
0029 PowerVR PCX1
002a PowerVR 3D
002c
Star Alpha 2
002d PCI to C-bus Bridge
0035 OHCI USB Controller
1033 0035 USB Controller
103c 1293 USB add-in card
103c 1294 USB 2.0 add-in card
1179 0001 USB
1186 0035 DUB-C2 USB 2.0 2-port 32-bit cardbus controller
12ee 7000 Root Hub
14c2 0105 PTI-205N USB 2.0 Host Controller
1799 0001 Root Hub
1931 000a GlobeTrotter Fusion Quad Lite (PPP data)
1931 000b GlobeTrotter Fusion Quad Lite (GSM data)
807d 0035 PCI-USB2 (OHCI subsystem)

003b PCI to C-bus Bridge
003e NAPCCARD Cardbus Controller
0046 PowerVR PCX2 [midas]
005a Vrc5074 [Nile 4]
0063 uPD72862 [Firewarden] IEEE1394 OHCI 1.0 Link Controller
0067 PowerVR Neon 250 Chipset
 1010 0020 PowerVR Neon 250 AGP 32Mb
 1010 0080 PowerVR Neon 250 AGP 16Mb
 1010 0088 PowerVR Neon 250 16Mb
 1010 0090 PowerVR Neon 250 AGP 16Mb
 1010 0098 PowerVR Neon 250 16Mb
 1010 00a0 PowerVR Neon 250 AGP 32Mb
 1010 00a8 PowerVR Neon 250 32Mb
 1010 0120 PowerVR Neon 250 AGP 32Mb
0072 uPD72874
IEEE1394 OHCI 1.1 3-port PHY-Link Ctrlr
0074 56k Voice Modem
 1033 8014 RCV56ACF 56k Voice Modem
009b Vrc5476
00a5 VRC4173
00a6 VRC5477 AC97
00cd uPD72870 [Firewarden] IEEE1394a OHCI 1.0 Link/3-port PHY Controller
 12ee 8011 Root hub
00ce uPD72871 [Firewarden] IEEE1394a OHCI 1.0 Link/1-port PHY Controller
00df Vr4131
00e0 uPD72010x USB 2.0 Controller
 1186 f100 DUB-C2 USB 2.0 2-port 32-bit cardbus controller
 12ee 7001 Root hub
 14c2 0205 PTI-205N USB 2.0 Host Controller
 1799 0002 Root Hub
 807d 1043 PCI-USB2 (EHCI subsystem)
00e7 uPD72873 [Firewarden] IEEE1394a OHCI 1.1 Link/2-port PHY Controller
00f2 uPD72874 [Firewarden] IEEE1394a OHCI 1.1 Link/3-port PHY Controller
00f3 uPD6113x Multimedia Decoder/Processor [EMMA2]
010c VR7701
0125 uPD720400 PCI Express - PCI/PCI-X Bridge
013a Dual Tuner/MPEG Encoder
0194 uPD720200 USB 3.0 Host Controller
 1028 04a3 Precision M4600
 1028 04b2 Vostro 3350
 1028 04da Vostro 3750
 1043 8413 P8P67
Deluxe Motherboard
 104d 907a Vaio VPCF1
 1af4 1100 QEMU Virtual Machine
 1b96 0001 USB 3.0 PCIe Card
01e7 uPD72873 [Firewarden] IEEE1394a OHCI 1.1 Link/2-port PHY Controller
01f2 uPD72874 [Firewarden] IEEE1394a OHCI 1.1 Link/3-port PHY Controller

1034 Framatome Connectors USA Inc.
1035 Comp. & Comm. Research Lab
1036 Future Domain Corp.
0000 TMC-18C30 [36C70]
1037 Hitachi Micro Systems
1038 AMP, Inc
1039 Silicon Integrated Systems [SiS]
0001 AGP Port (virtual PCI-to-PCI bridge)
0002 AGP Port (virtual PCI-to-PCI bridge)
0003 AGP Port (virtual PCI-to-PCI bridge)
0004 PCI-to-PCI bridge
1039 0000 PCIe x16 port
0006 85C501/2/3
0008 SiS85C503/5513 (LPC Bridge)
0009 5595 Power Management Controller
000a PCI-to-PCI bridge
1039 0000 PCIe x1 port
0016 SiS961/2/3 SMBus controller
0018 SiS85C503/5513 (LPC Bridge)
0163 163 802.11b/g Wireless LAN Adapter
0180 RAID bus controller 180 SATA/PATA [SiS]
0181 SATA
0182 182 SATA/RAID Controller
1734 1095
D2030-A1
0186 AHCI Controller (0106)
0190 190 Ethernet Adapter
0191 191 Gigabit Ethernet Adapter
1043 8139 P5SD2-FM/S mainboard
0200 5597/5598/6326 VGA
1039 0000 SiS5597 SVGA (Shared RAM)
0204 82C204
0205 SG86C205
0300 300/305 PCI/AGP VGA Display Adapter
107d 2720 Leadtek WinFast VR300
0310 315H PCI/AGP VGA Display Adapter
0315 315 PCI/AGP VGA Display Adapter
0325 315PRO PCI/AGP VGA Display Adapter
0330 330 [Xabre] PCI/AGP VGA Display Adapter
0406 85C501/2
0496 85C496
0530 530 Host
0540 540 Host
0550 550 Host
0597 5513C
0601 85C601
0620 620 Host
0630 630 Host

0633 633 Host
0635 635 Host
0645 SiS645 Host & Memory & AGP Controller
0646 SiS645DX Host & Memory & AGP Controller
0648 645xx
0649 SiS649 Host
0650 650/M650 Host
0651 651 Host
0655 655 Host
0660 660 Host
0661 661FX/M661FX/M661MX Host
0662 662 Host
0671 671MX
0730 730 Host
0733 733 Host
0735 735 Host
0740 740 Host
0741 741/741GX/M741 Host
1849
0741 K7S41/K7S41GX motherboard
0745 745 Host
0746 746 Host
0755 755 Host
0760 760/M760 Host
0761 761/M761 Host
1734 1099 D2030-A1 Motherboard
0900 SiS900 PCI Fast Ethernet
1019 0a14 K7S5A motherboard
1039 0900 SiS900 10/100 Ethernet Adapter onboard
1043 8035 CUSI-FX motherboard
1043 80a7 Motherboard P4S800D-X
1462 0900 MS-6701 motherboard
0961 SiS961 [MuTIOL Media IO]
0962 SiS962 [MuTIOL Media IO] LPC Controller
0963 SiS963 [MuTIOL Media IO] LPC Controller
0964 SiS964 [MuTIOL Media IO] LPC Controller
0965 SiS965 [MuTIOL Media IO]
0966 SiS966 [MuTIOL Media IO]
0968 SiS968 [MuTIOL Media IO]
1180 SATA Controller / IDE mode
1182 SATA Controller / RAID mode
1039 0180 SiS 966 4-port SATA controller
1183 SATA Controller / IDE mode
1039 0180 SiS 966 4-port SATA controller
1184 AHCI Controller / RAID mode
1185 AHCI IDE Controller (0106)
3602 83C602
5107 5107

5300 SiS540 PCI Display Adapter
5315 550 PCI/AGP VGA Display Adapter
5401
 486 PCI Chipset
5511 5511/5512
5513 5513 IDE Controller
 1019 0970 P6STP-FL motherboard
 1039 5513 SiS5513 EIDE Controller (A,B step)
 1043 8035 CUSI-FX motherboard
 1462 7010 MS-6701 motherboard
 1631 5513 GA-8SIML Rev1.0 Motherboard
 1734 1095 D2030-A1 Motherboard
5517 5517
5571 5571
5581 5581 Pentium Chipset
5582 5582
5591 5591/5592 Host
5596 5596 Pentium Chipset
5597 5597 [SiS5582]
5600 5600 Host
6204 Video decoder & MPEG interface
6205 VGA Controller
6236 6236 3D-AGP
6300 630/730 PCI/AGP VGA Display Adapter
 1019 0970 P6STP-FL motherboard
 1043 8035 CUSI-FX motherboard
 104d 80e2 VAIO PCV-J200
6306 530/620 PCI/AGP VGA Display Adapter
6325 65x/M650/740 PCI/AGP VGA Display Adapter
 1039 6325 SiS 651 onboard [Asus P4SC-EA]
 1631 1004 SiS 651C onboard [Gigabyte GA-8SIML Rev1.0]
6326 86C326 5598/6326
 1039 6326 SiS6326 GUI Accelerator
 1092 0a50 SpeedStar A50
 1092 0a70 SpeedStar A70
 1092 4910 SpeedStar A70
 1092
4920 SpeedStar A70
 10b0 6326 S6110-B (AGP)
 1569 6326 SiS6326 GUI Accelerator
6330 661/741/760 PCI/AGP or 662/761Gx PCIE VGA Display Adapter
 1039 6330 [M]661xX/[M]741[GX]/[M]760 PCI/AGP VGA Adapter
 1043 8113 SiS Real 256E (ASUS P5S800-VM motherboard)
 1458 d000 SiS661FX GUI 2D/3D Accelerator
 1734 1099 D2030-A1
6350 770/670 PCIE VGA Display Adapter
6351 771/671 PCIE VGA Display Adapter
7001 USB 1.1 Controller

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 1019 0a14  K7S5A motherboard
 1039 7000  Onboard USB Controller
 1462 5470  ECS K7SOM+ motherboard
 1462 7010  MS-6701 motherboard
 1734 1095  D2030-A1 Motherboard
7002  USB 2.0 Controller
 1462 5470  K7SOM+ 5.2C Motherboard
 1462 7010  MS-6701 motherboard
 1509 7002  Onboard USB Controller
 1734 1095  D2030-A1
7007  FireWire Controller
 1462 701d  MS-6701
7012  SiS7012 AC'97 Sound Controller
 1019 0f05  A928 (i-Buddie)
 1039 7012  SiS 7012 onboard [Asus P4SC-EA] AC'97 Sound Controller
 1043 818f  A8S-X Motherboard
 13f6 0300  CMI9739(A)
on ECS K7S series motherboard
 1462 5850  MSI 648 Max (MS-6585)
 1462 7010  MS-6701 motherboard
 15bd 1001  DFI 661FX motherboard
 1734 109f  D2030-A1 Motherboard
 1849 7012  K7S41GX motherboard
# There are may be different modem codecs here (Intel537 compatible and incompatible)
7013  AC'97 Modem Controller
7016  SiS7016 PCI Fast Ethernet Adapter
 1039 7016  SiS7016 10/100 Ethernet Adapter
7018  SiS PCI Audio Accelerator
 1014 01b6  SiS PCI Audio Accelerator
 1014 01b7  SiS PCI Audio Accelerator
 1019 7018  SiS PCI Audio Accelerator
 1025 000e  SiS PCI Audio Accelerator
 1025 0018  SiS PCI Audio Accelerator
 1039 7018  SiS PCI Audio Accelerator
 1043 1453  SiS PCI Audio Accelerator
 1043 800b  SiS PCI Audio Accelerator
 104d 80e2  VAIO PCV-J200
 1054 7018  SiS PCI Audio Accelerator
 107d 5330  SiS PCI Audio Accelerator
 107d 5350  SiS PCI Audio Accelerator
 1170 3209  SiS PCI Audio Accelerator
 1462 400a  SiS PCI Audio Accelerator
 14a4 2089  SiS PCI Audio Accelerator
 14cd
2194  SiS PCI Audio Accelerator
 14ff 1100  SiS PCI Audio Accelerator
 152d 8808  SiS PCI Audio Accelerator
 1558 1103  SiS PCI Audio Accelerator
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1558 2200 SiS PCI Audio Accelerator
1563 7018 SiS PCI Audio Accelerator
15c5 0111 SiS PCI Audio Accelerator
270f a171 SiS PCI Audio Accelerator
a0a0 0022 SiS PCI Audio Accelerator
7019 SiS7019 Audio Accelerator
7502 Azalia Audio Controller
1043 81a1 P5SD2-FM/S mainboard
103a Seiko Epson Corporation
103b Tatung Corp. Of America
103c Hewlett-Packard Company
1005 A4977A Visualize EG
1008 Visualize FX
1028 Tach TL Fibre Channel Host Adapter
1029 Tach XL2 Fibre Channel Host Adapter
107e 000f Interphase 5560 Fibre Channel Adapter
9004 9210 1Gb/2Gb Family Fibre Channel Controller
9004 9211 1Gb/2Gb Family Fibre Channel Controller
102a Tach TS Fibre Channel Host Adapter
107e 000e Interphase 5540/5541 Fibre Channel Adapter
9004 9110 1Gb/2Gb Family Fibre Channel Controller
9004 9111
1Gb/2Gb Family Fibre Channel Controller
1030 J2585A DeskDirect 10/100VG NIC
1031 J2585B HP 10/100VG PCI LAN Adapter
103c 1040 J2973A DeskDirect 10BaseT NIC
103c 1041 J2585B DeskDirect 10/100VG NIC
103c 1042 J2970A DeskDirect 10BaseT/2 NIC
1040 J2973A DeskDirect 10BaseT NIC
1041 J2585B DeskDirect 10/100 NIC
1042 J2970A DeskDirect 10BaseT/2 NIC
1048 Diva Serial [GSP] Multiport UART
103c 1049 Tosca Console
103c 104a Tosca Secondary
103c 104b Maestro SP2
103c 1223 Superdome Console
103c 1226 Keystone SP2
103c 1227 Powerbar SP2
103c 1282 Everest SP2
103c 1301 Diva RMP3
1054 PCI Local Bus Adapter
1064 79C970 PCnet Ethernet Controller
108b Visualize FXe
10c1 NetServer Smart IRQ Router
10ed TopTools Remote Control
10f0 rio System Bus Adapter
10f1 rio I/O Controller
1219 NetServer PCI Hot-Plug Controller

121a NetServer SMIC Controller
121b NetServer Legacy COM Port Decoder
121c NetServer PCI COM Port Decoder
1229 zx1 System
Bus Adapter
122a zx1 I/O Controller
122e PCI-X Local Bus Adapter
127b sx1000 System Bus Adapter
127c sx1000 I/O Controller
128d Diva [GSP] Management Board
1290 Auxiliary Diva Serial Port
 103c 1291 Diva SP2
1291 Auxiliary Diva Serial Port
12b4 zx1 QuickSilver AGP8x Local Bus Adapter
12eb sx2000 System Bus Adapter
12ec sx2000 I/O Controller
12ee PCI-X 2.0 Local Bus Adapter
1302 RMP-3 Shared Memory Driver
1303 RMP-3 (Remote Management Processor)
22f6 iLO5 Virtual USB Controller
 1590 00e4 iLO5 Standard Virtual USB Controller
2910 E2910A PCIBus Exerciser
2925 E2925A 32 Bit, 33 MHzPCI Exerciser & Analyzer
3206 Adaptec Embedded Serial ATA HostRAID
3220 Smart Array P600
 103c 3225 3 Gb/s SAS RAID
3230 Smart Array Controller
 103c 3223 Smart Array P800
 103c 3234 P400 SAS Controller
 103c 3235 P400i SAS Controller
 103c 3237 E500 SAS Controller
 103c 323d P700m SAS Controller
3238 Smart Array E200i (SAS Controller)
 103c 3211 Smart Array
E200i
 103c 3212 Smart Array E200
3239 Smart Array Gen9 Controllers
 103c 21bd P244br
 103c 21be P741m
 103c 21bf H240ar
 103c 21c0 P440ar
 103c 21c1 P840ar
 103c 21c2 P440
 103c 21c3 P441
 103c 21c4 Smart Array
 103c 21c5 P841
 103c 21c6 H244br
 103c 21c7 H240

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 103c 21c8  H241
 103c 21c9  Smart Array
 103c 21ca  P246br
 103c 21cb  P840
 103c 21cc  Smart Array
 103c 21cd  P240nr
 103c 21ce  H240nr
323a  Smart Array G6 controllers
 103c 3241  Smart Array P212
 103c 3243  Smart Array P410
 103c 3245  Smart Array P410i
 103c 3247  Smart Array P411
 103c 3249  Smart Array P812
 103c 324a  Smart Array 712m (Mezzanine RAID controller)
 103c 324b  Smart Array P711m (Mezzanine RAID controller)
323b  Smart Array Gen8 Controllers
 103c 3350  P222
 103c 3351  P420
 103c 3352  P421
 103c 3354  P420i
 103c 3355  P220i
323c  Smart Array Gen8+ Controllers
 103c 1920  P430i
 103c 1921  P830i
 103c 1922  P430
 103c 1923  P431
 103c 1924  P830
 103c
1925  Smart Array
 103c 1926  P731m
 103c 1928  P230i
3300  Integrated Lights-Out Standard Virtual USB Controller
 103c 3304  iLO2
 103c 3305  iLO2
 103c 3309  iLO2 GXL/iLO3 GXE
 103c 330e  iLO3
 103c 3381  iLO4
3301  Integrated Lights-Out Standard Serial Port
 103c 3304  iLO2
 103c 3305  iLO2
 103c 330e  iLO3
 103c 3381  iLO4
# Virtual serial port which is presented on a Java applet
3302  Integrated Lights-Out Standard KCS Interface
 103c 3304  iLO2
 103c 3305  iLO2
 103c 330e  iLO3
 103c 3381  iLO4
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 3305  Integrated Lights-Out (iLO2) Controller
 3306  Integrated Lights-Out Standard Slave Instrumentation & System Support
  103c 330e  iLO3
  103c 3381  iLO4
  1590 00e4  iLO5
 3307  Integrated Lights-Out Standard Management Processor Support and Messaging
# HP DL380 G6
  103c 3309  iLO 2
  103c 330e  iLO3
  103c 3381  iLO4
 3308  Integrated Lights-Out Standard MS Watchdog Timer
  103c 330e  iLO3
  103c 3381  iLO4
 4030  zx2 System Bus Adapter
 4031  zx2 I/O Controller
 4037
  PCIe Local Bus Adapter
 9602  AMD RS780/RS880 PCI to PCI bridge (int gfx)
  103c 1609  ProLiant MicroServer N36L
103e  Solliday Engineering
103f  Synopsys/Logic Modeling Group
1040  Accelgraphics Inc.
1041  Computrend
1042  Micron
 1000  PC Tech RZ1000
 1001  PC Tech RZ1001
 3000  Samurai_0
 3010  Samurai_1
 3020  Samurai_IDE
1043  ASUSTeK Computer Inc.
 0464  Radeon R9 270x GPU
 0521  RX580 [RX 580 Dual O8G]
 0675  ISDNLink P-IN100-ST-D
  0675 1704  ISDN Adapter (PCI Bus, D, C)
  0675 1707  ISDN Adapter (PCI Bus, DV, W)
  10cf 105e  ISDN Adapter (PCI Bus, DV, W)
# Should be 1022:9602
 9602  AMD RS780/RS880 PCI to PCI bridge (int gfx)
  1043 83a2  M4A785TD Motherboard
1044  Adaptec (formerly DPT)
 1012  Domino RAID Engine
 a400  SmartCache/Raid I-IV Controller
 a500  PCI Bridge
 a501  SmartRAID V Controller
  1044 c001  PM1554U2 Ultra2 Single Channel
  1044 c002  PM1654U2 Ultra2 Single Channel
  1044 c003  PM1564U3 Ultra3 Single Channel
  1044 c004  PM1564U3 Ultra3 Dual Channel
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1044
c005 PM1554U2 Ultra2 Single Channel (NON ACPI)
1044 c00a PM2554U2 Ultra2 Single Channel
1044 c00b PM2654U2 Ultra2 Single Channel
1044 c00c PM2664U3 Ultra3 Single Channel
1044 c00d PM2664U3 Ultra3 Dual Channel
1044 c00e PM2554U2 Ultra2 Single Channel (NON ACPI)
1044 c00f PM2654U2 Ultra2 Single Channel (NON ACPI)
1044 c014 PM3754U2 Ultra2 Single Channel (NON ACPI)
1044 c015 PM3755U2B Ultra2 Single Channel (NON ACPI)
1044 c016 PM3755F Fibre Channel (NON ACPI)
1044 c01e PM3757U2 Ultra2 Single Channel
1044 c01f PM3757U2 Ultra2 Dual Channel
1044 c020 PM3767U3 Ultra3 Dual Channel
1044 c021 PM3767U3 Ultra3 Quad Channel
1044 c028 PM2865U3 Ultra3 Single Channel
1044 c029 PM2865U3 Ultra3 Dual Channel
1044 c02a PM2865F Fibre Channel
1044 c03c 2000S Ultra3 Single Channel
1044 c03d 2000S Ultra3 Dual Channel
1044 c03e 2000F Fibre Channel
1044 c046 3000S Ultra3 Single Channel
1044 c047 3000S Ultra3 Dual Channel
1044 c048 3000F
Fibre Channel
1044 c050 5000S Ultra3 Single Channel
1044 c051 5000S Ultra3 Dual Channel
1044 c052 5000F Fibre Channel
1044 c05a 2400A UDMA Four Channel
1044 c05b 2400A UDMA Four Channel DAC
1044 c064 3010S Ultra3 Dual Channel
1044 c065 3410S Ultra160 Four Channel
1044 c066 3010S Fibre Channel
a511 SmartRAID V Controller
1044 c032 ASR-2005S I2O Zero Channel
1044 c035 ASR-2010S I2O Zero Channel
c066 3010S Ultra3 Dual Channel
1045 OPTi Inc.
a0f8 82C750 [Vendetta] USB Controller
c101 92C264
c178 92C178
c556 82X556 [Viper]
c557 82C557 [Viper-M]
c558 82C558 [Viper-M ISA+IDE]
c567 82C750 [Vendetta], device 0
c568 82C750 [Vendetta], device 1
c569 82C579 [Viper XPress+ Chipset]
c621 82C621 [Viper-M/N+]

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c700  82C700 [FireStar]
c701  82C701 [FireStar Plus]
c814  82C814 [Firebridge 1]
c822  82C822
c824  82C824
c825  82C825 [Firebridge 2]
c832  82C832
c861  82C861 OHCI USB Host
c881  82C881 [FireLink] 1394 OHCI Link Controller
c895
 82C895
c935  EV1935 ECTIVA MachOne PCIAudio
d568  82C825 [Firebridge 2]
d721  IDE [FireStar]
1046  IPC Corporation, Ltd.
1047  Genoa Systems Corp
1048  Elsa AG
0c60  Gladiac MX
0d22  Quadro4 900XGL [ELSA GLoria4 900XGL]
1000  QuickStep 1000
3000  QuickStep 3000
8901  Gloria XL
  1048 0935  GLoria XL (Virge)
1049  Fountain Technologies, Inc.
# nee SGS Thomson Microelectronics
104a  STMicroelectronics
0000  STLS2F Host Bridge
0008  STG 2000X
0009  STG 1764X
0010  STG4000 [3D Prophet Kyro Series]
  104a 4018  ST PowerVR Kyro (64MB AGP TVO)
# 64MB AGP
  1681 0010  PowerVR Kyro II [3D Prophet 4500]
  1681 0028  3D Prophet 4000XT
  1681 c010  3D Prophet 4500 TV-Out
  1681 c069  3D Prophet 4000XT
0201  STPC Vega Northbridge
0209  STPC Consumer/Industrial North- and Southbridge
020a  STPC Atlas/ConsumerS/Consumer IIA Northbridge
020b  STPC Consumer II ISA Bridge
0210  STPC Atlas ISA Bridge
021a  STPC Consumer S Southbridge
021b  STPC Consumer IIA Southbridge
0220  STPC Industrial
PCI to PCCard bridge
0228  STPC Atlas IDE
0229  STPC Vega IDE
0230  STPC Atlas/Vega OHCI USB Controller
```

0238 STPC Vega LAN
0500 ST70137 [Unicorn] ADSL DMT Transceiver
104a 0500 BeWAN ADSL PCI st
0564 STPC Client Northbridge
0981 21x4x DEC-Tulip compatible 10/100 Ethernet
1746 STG 1764X
2774 21x4x DEC-Tulip compatible 10/100 Ethernet
3520 MPEG-II decoder card
55cc STPC Client Southbridge
104b BusLogic
0140 BT-946C (old) [multimaster 01]
1040 BT-946C (BA80C30) [MultiMaster 10]
8130 Flashpoint LT
104c Texas Instruments
0500 100 MBit LAN Controller
0508 TMS380C2X Compressor Interface
1000 Eagle i/f AS
104c PCI1510 PC card Cardbus Controller
3d04 TVP4010 [Permedia]
3d07 TVP4020 [Permedia 2]
1011 4d10 Comet
1040 000f AccelStar II
1040 0011 AccelStar II
1048 0a31 WINNER 2000
1048 0a32 GLoria Synergy
1048 0a34 GLoria Synergy
1048 0a35 GLoria Synergy
1048 0a36 GLoria Synergy
1048 0a43 GLoria Synergy
1048 0a44 GLoria
Synergy
107d 2633 WinFast 3D L2300
1092 0126 FIRE GL 1000 PRO
1092 0127 FIRE GL 1000 PRO
1092 0136 FIRE GL 1000 PRO
1092 0141 FIRE GL 1000 PRO
1092 0146 FIRE GL 1000 PRO
1092 0148 FIRE GL 1000 PRO
1092 0149 FIRE GL 1000 PRO
1092 0152 FIRE GL 1000 PRO
1092 0154 FIRE GL 1000 PRO
1092 0155 FIRE GL 1000 PRO
1092 0156 FIRE GL 1000 PRO
1092 0157 FIRE GL 1000 PRO
1097 3d01 Jeronimo Pro
1102 100f Graphics Blaster Extreme
3d3d 0100 Reference Permedia 2 3D
8000 PCILynx/PCILynx2 IEEE 1394 Link Layer Controller

105e 8003 FireBoard200
1443 8003 FireBoard200
1443 8005 FireBoard400
1443 8006 FireBoard400
e4bf 1010 CF1-1-SNARE
e4bf 1020 CF1-2-SNARE
e4bf 1040 FireCompact400
8009 TSB12LV22 IEEE-1394 Controller
104d 8032 8032 OHCI i.LINK (IEEE 1394) Controller
1443 8010 FireBoard400-OHCI
8017 PCI4410 FireWire Controller
8019 TSB12LV23 IEEE-1394 Controller
11bd 000a Studio DV500-1394
11bd 000e Studio DV
1443 8010
FireBoard400-OHCI
e4bf 1010 CF2-1-CYMBAL
8020 TSB12LV26 IEEE-1394 Controller (Link)
1028 00d8 Precision 530
104d 80e2 VAIO PCV-J200
11bd 000f Studio DV500-1394
11bd 001c Excalibur 4.1
1443 8010 FireBoard400-OHCI
8021 TSB43AA22 IEEE-1394 Controller (PHY/Link Integrated)
104d 80df Vaio PCG-FX403
104d 80e7 VAIO PCG-GR214EP/GR214MP/GR215MP/GR314MP/GR315MP
8022 TSB43AB22 IEEE-1394a-2000 Controller (PHY/Link) [iOHCI-Lynx]
104c 8023 TSB43AB22/A IEEE-1394a-2000 Controller (PHY/Link)
8023 TSB43AB22A IEEE-1394a-2000 Controller (PHY/Link) [iOHCI-Lynx]
1028 0168 Precision Workstation 670 Mainboard
103c 088c NC8000 laptop
1043 808b K8N4/A8N Series Mainboard
1043 815b P5W DH Deluxe Motherboard
1443 8023 FireCard400
8086 5044 Desktop Board DP35DP
8024 TSB43AB23 IEEE-1394a-2000 Controller (PHY/Link)
107d 6620 Winfast DV2000 FireWire Controller
1443 8024 FireBoard Blue
1458 1000 Motherboard
8025 TSB82AA2 IEEE-1394b Link Layer Controller
1043
813c P5P series mainboard
1443 8025 FireBoard800
1458 1000 GA-K8N Ultra-9 Mainboard
1546 8025 FWB-PCI01
17fc 8025 GIC3800
8026 TSB43AB21 IEEE-1394a-2000 Controller (PHY/Link)
1025 0035 TravelMate 660

1025 003c Aspire 2001WLCi (Compaq CL50 motherboard)
103c 0025 XE4500 Notebook
103c 006a NX9500
1043 808d A7V333 mainboard.
8027 PCI4451 IEEE-1394 Controller
1028 00e5 Latitude C810
1028 00e6 PCI4451 IEEE-1394 Controller (Dell Inspiron 8100)
8029 PCI4510 IEEE-1394 Controller
1028 0163 Latitude D505
1028 0196 Inspiron 5160
1071 8160 MIM2900
802b PCI7410,7510,7610 OHCI-Lynx Controller
1028 0139 Latitude D400
1028 014e PCI7410,7510,7610 OHCI-Lynx Controller (Latitude D800)
802e PCI7x20 1394a-2000 OHCI Two-Port PHY/Link-Layer Controller
1028 018d Inspiron 700m/710m
8031 PCIxx21/PCIxx11/PCIx515 PC Card Controller
1025 0064 Extensa 3000 series laptop
1025 0080 Aspire 5024WLMi
103c 0934 Compaq nw8240/nx8220
103c 0944
Compaq nc6220 Notebook PC
103c 099c NX6110/NC6120
103c 308b MX6125
8032 OHCI Compliant IEEE 1394 Host Controller
1025 0064 Extensa 3000 series laptop
1025 0080 Aspire 5024WLMi
103c 0934 Compaq nw8240/nx8220
103c 099c NX6110/NC6120
103c 308b MX6125
8033 PCIxx21/PCIxx11 Flash Media Controller
1025 0064 Extensa 3000 series laptop
1025 0080 Aspire 5024WLMi
103c 0934 Compaq nw8240/nx8220
103c 0944 Compaq nc6220 Notebook PC
103c 099c NX6110/NC6120
103c 308b MX6125
8034 PCIxx21/PCIxx11 SD Host Controller
1025 0080 Aspire 5024WLMi
103c 0934 Compaq nw8240/nx8220
103c 0944 Compaq nc6220 Notebook PC
103c 099c NX6110/NC6120
103c 308b MX6125
8035 PCIxx21/PCIxx11 Smart Card Controller
103c 0934 Compaq nw8240/nx8220
103c 0944 Compaq nc6220 Notebook PC
103c 099c NX6110/NC6120
8036 PCI6515 Cardbus Controller

8038 PCI6515 SmartCard Controller
8039 PCIxx12 Cardbus Controller
 103c 309f Compaq nx9420 Notebook
 103c 30a1
NC2400
 103c 30a3 Compaq nw8440
 104d 902d VAIO VGN-NR120E
803a PCIxx12 OHCI Compliant IEEE 1394 Host Controller
 103c 309f nx9420
 103c 30a1 NC2400
 103c 30a3 Compaq nw8440
 104d 902d VAIO VGN-NR120E
803b PCIxx12 Flash Media Controller
 103c 309f nx9420
 103c 30a3 Compaq nw8440
 104d 8212 VAIO VGN-N21E
 104d 902d VAIO VGN-NR120E
803c PCIxx12 SDA Standard Compliant SD Host Controller
 103c 309f nx9420
 103c 30a3 Compaq nw8440
803d PCIxx12 GemCore based SmartCard controller
 103c 309f Compaq nx9420 Notebook
 103c 30a1 NC2400
 103c 30a3 nc8430
 103c 30aa nc6310
8101 TSB43DB42 IEEE-1394a-2000 Controller (PHY/Link)
8201 PCI1620 Firmware Loading Function
8204 PCI7410/7510/7610 PCI Firmware Loading Function
 1028 0139 Latitude D400
 1028 014e Latitude D800
8231 XIO2000(A)/XIO2200A PCI Express-to-PCI Bridge
 5678 1234 DC-1394 PCIe
8232 XIO3130 PCI Express Switch (Upstream)
8233 XIO3130 PCI Express Switch (Downstream)
8235 XIO2200A IEEE-1394a-2000
Controller (PHY/Link)
 5678 1234 DC-1394 PCIe
823e XIO2213A/B/XIO2221 PCI Express to PCI Bridge [Cheetah Express]
823f XIO2213A/B/XIO2221 IEEE-1394b OHCI Controller [Cheetah Express]
 1546 803c FWB-PCIE1X11B
8240 XIO2001 PCI Express-to-PCI Bridge
8241 TUSB73x0 SuperSpeed USB 3.0 xHCI Host Controller
 1014 04b2 S824 (8286-42A)
8400 ACX 100 22Mbps Wireless Interface
 1186 3b00 DWL-650+ PC Card cardbus 22Mbs Wireless Adapter [AirPlus]
 1186 3b01 DWL-520+ 22Mbps PCI Wireless Adapter
 1395 2201 WL22-PC
 16ab 8501 WL-8305 IEEE802.11b+ Wireless LAN PCI Adapter

8401 ACX 100 22Mbps Wireless Interface
8888 Multicore DSP+ARM KeyStone II SOC
9000 Wireless Interface (of unknown type)
9065 TMS320DM642
9066 ACX 111 54Mbps Wireless Interface
0308 3404 G-102 v1 802.11g Wireless Cardbus Adapter
0308 3406 G-162 v2 802.11g Wireless Cardbus Adapter
104c 9066 WL212 Sitecom Wireless Network PCI-Card 100M (Version 1)
Found in Philips ADSL ANNEX A WLAN
Router SNA6500/18 sold by Belgacom
104c 9067 TNETW1130GVF
104c 9096 Trendnet TEW-412PC Wireless PCI Adapter (Version A)
1186 3b04 DWL-G520+ Wireless PCI Adapter
1186 3b05 DWL-G650+ AirPlusG+ CardBus Wireless LAN
1186 3b08 AirPlus G DWL-G630 Wireless Cardbus Adapter (rev.B1)
1385 4c00 WG311v2 802.11g Wireless PCI Adapter
13d1 aba0 SWLMP-54108 108Mbps Wireless mini PCI card 802.11g+
14ea ab07 GW-NS54GM Wireless Cardbus Adapter
16ec 010d USR5416 802.11g Wireless Turbo PCI Adapter
16ec 010e USR5410 802.11g Wireless Cardbus Adapter
1737 0033 WPC54G v2 802.11g Wireless-G Notebook Adapter
17cf 0032 G-162 v1 802.11g Wireless Cardbus Adapter
17cf 0033 Z-Com XG650 Wireless miniPCI 802.11b/g
187e 340b G-302 v2 802.11g Wireless PCI Adapter
187e 340c G-360 v2 802.11g Wireless PCI Adapter
a001 TDC1570
a100 TDC1561
a102 TNETA1575 HyperSAR Plus w/PCI Host i/f & UTOPIA i/f
a106 TMS320C6414 TMS320C6415 TMS320C6416
175c 5000 ASI50xx Audio Adapter
175c
6400 ASI6400 Cobranet series
175c 8700 ASI87xx Radio Tuner card
ac10 PCI1050
ac11 PCI1053
ac12 PCI1130
ac13 PCI1031
ac15 PCI1131
ac16 PCI1250
1014 0092 ThinkPad 600
ac17 PCI1220
ac18 PCI1260
ac19 PCI1221
ac1a PCI1210
ac1b PCI1450
0e11 b113 Armada M700
1014 0130 ThinkPad 600X/A21m/T20/T22
ac1c PCI1225

0e11 b121 Armada E500
1028 0088 Latitude CPi A400XT
ac1d PCI1251A
ac1e PCI1211
ac1f PCI1251B
ac20 TI 2030
ac21 PCI2031
ac22 PCI2032 PCI Docking Bridge
ac23 PCI2250 PCI-to-PCI Bridge
ac28 PCI2050 PCI-to-PCI Bridge
ac2c PCI2060 PCI-to-PCI Bridge
ac30 PCI1260 PC card Cardbus Controller
ac40 PCI4450 PC card Cardbus Controller
ac41 PCI4410 PC card Cardbus Controller
ac42 PCI4451 PC card Cardbus Controller
1028 00e6 PCI4451 PC card CardBus Controller (Inspiron 8100)
ac44 PCI4510 PC card Cardbus Controller
1028 0149 Inspiron 5100
1028 0163 Latitude D505
1028 0196 Inspiron 5160
1071 8160 MIM2000
ac46 PCI4520
PC card Cardbus Controller
1014 0552 ThinkPad
ac47 PCI7510 PC card Cardbus Controller
1028 0139 Latitude D400
1028 013f Precision M60
1028 014e Latitude D800
ac48 PCI7610 PC Card Cardbus Controller
ac49 PCI7410 PC Card Cardbus Controller
ac4a PCI7510/7610 CardBus Bridge
1028 0139 Latitude D400
1028 014e Latitude D800
ac4b PCI7610 SD/MMC controller
ac4c PCI7610 Memory Stick controller
ac50 PCI1410 PC card Cardbus Controller
ac51 PCI1420 PC card Cardbus Controller
0e11 004e Evo N600c
1014 0148 ThinkPad A20m
1014 023b ThinkPad T23
1028 00b1 Latitude C600
1028 012a Latitude C640
1033 80cd Versa Note VXi
10cf 1095 Lifebook S-4510/C6155
e4bf 1000 CP2-2-HIPHOP
ac52 PCI1451 PC card Cardbus Controller
ac53 PCI1421 PC card Cardbus Controller
ac54 PCI1620 PC Card Controller

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	103c 08b0  tc1100 tablet
ac55  PCI1520 PC card Cardbus Controller
	1014 0512  ThinkPad T30/T40
	103c 0025  XE4500 Notebook
ac56  PCI1510 PC card Cardbus
Controller
	1014 0512  ThinkPad R50e
	1014 0528  ThinkPad R40e
	17aa 2012  ThinkPad T60/R60 series
ac60  PCI2040 PCI to DSP Bridge Controller
	175c 5100  ASI51xx Audio Adapter
	175c 6100  ASI61xx Audio Adapter
	175c 6200  ASI62xx Audio Adapter
	175c 8800  ASI88xx Audio Adapter
	186f 3001  WR-G303 PCI radio receiver
	186f 3005  WR-G305 PCI radio receiver
	186f 3101  WR-G313 PCI radio receiver
	186f 3105  WR-G315 PCI radio receiver
ac8d  PCI 7620
ac8e  PCI7420 CardBus Controller
	1028 018d  Inspiron 700m/710m
ac8f  PCI7420/7620 SD/MS-Pro Controller
	1028 018d  Inspiron 700m/710m
b001  TMS320C6424
fe00  FireWire Host Controller
fe03  12C01A FireWire Host Controller
104d  Sony Corporation
8004  DTL-H2500 [Playstation development board]
8009  CXD1947Q i.LINK Controller
800c  DTL-H800 [PS1 sound development board]
8039  CXD3222 i.LINK Controller
8047  PS2 TOOL MRP
8056  Rockwell HCF 56K modem
808a  Memory Stick Controller
80ff  PS2 Performance Analyzer
814a  PS2
Performance Analyzer
8183  ATHENS [PS3 prototype developer interface card]
81b0  BM-1 [PSP TOOL Board Management Device]
81c3  VO-4 [PSP TOOL Video Output Device]
81ce  SxS Pro memory card
81ff  PS3 TOOL MRP
8200  PS3 TOOL RSX Tracing FPGA
820e  CXD9208GP [PS3 PS2 emulation subsystem adapter]
# 2nd ID
905c  SxS Pro memory card
# 2nd ID
907f  SxS Pro+ memory card
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908f Aeolia ACPI
909e Aeolia Ethernet Controller (Marvell Yukon 2 Family)
909f Aeolia SATA AHCI Controller
90a0 Aeolia SD/MMC Host Controller
90a1 Aeolia PCI Express Glue and Miscellaneous Devices
90a2 Aeolia DMA Controller
90a3 Aeolia Memory (DDR3/SPM)
90a4 Aeolia USB 3.0 xHCI Host Controller
90bc SxS Pro+ memory card
90c8 Belize ACPI
90c9 Belize Ethernet Controller
90ca Belize SATA AHCI Controller
90cb Belize SD/MMC Host Controller
90cc Belize PCI Express Glue and Miscellaneous Devices
90cd Belize DMA Controller
90ce Belize Memory (DDR3/SPM)
90cf Belize USB 3.0 xHCI Host Controller
90d7
 Baikal ACPI
90d8 Baikal Ethernet Controller
90d9 Baikal SATA AHCI Controller
90da Baikal SD/MMC Host Controller
90db Baikal PCI Express Glue and Miscellaneous Devices
90dc Baikal DMA Controller
90dd Baikal Memory (DDR3/SPM)
90de Baikal USB 3.0 xHCI Host Controller
104e Oak Technology, Inc
0017 OTI-64017
0107 OTI-107 [Spitfire]
0109 Video Adapter
0111 OTI-64111 [Spitfire]
0217 OTI-64217
0317 OTI-64317
104f Co-time Computer Ltd
1050 Winbond Electronics Corp
0000 NE2000
0001 W83769F
0033 W89C33D 802.11 a/b/g BB/MAC
0105 W82C105
0840 W89C840
 1050 0001 W89C840 Ethernet Adapter
 1050 0840 W89C840 Ethernet Adapter
0940 W89C940
5a5a W89C940F
6692 W6692
 1043 1702 ISDN Adapter (PCI Bus, D, W)
 1043 1703 ISDN Adapter (PCI Bus, DV, W)
 1043 1707 ISDN Adapter (PCI Bus, DV, W)

144f 1702 ISDN Adapter (PCI Bus, D, W)
144f 1703 ISDN Adapter (PCI Bus, DV, W)
144f 1707 ISDN Adapter (PCI Bus, DV, W)
9921 W99200F MPEG-1 Video Encoder
9922
W99200F/W9922PF MPEG-1/2 Video Encoder
9970 W9970CF
1051 Anigma, Inc.
1052 ?Young Micro Systems
1053 Young Micro Systems
1054 Hitachi, Ltd
3009 2Gbps Fibre Channel to PCI HBA 3009
300a 4Gbps Fibre Channel to PCI-X HBA 300a
300b 4Gbps Fibre Channel to PCI-X HBA 300b
300f ColdFusion 3 Chipset Processor to I/O Controller
3010 ColdFusion 3 Chipset Memory Controller Hub
3011 ColdFusion 3e Chipset Processor to I/O Controller
3012 ColdFusion 3e Chipset Memory Controller Hub
3017 Unassigned Hitachi Shared FC Device 3017
301b Virtual VGA Device
301d PCIe-to-PCIe Bridge with Virtualization IO Assist Feature
3020 FIVE-EX based Fibre Channel to PCIe HBA
302c M001 PCI Express Switch Upstream Port
302d M001 PCI Express Switch Downstream Port
3070 Hitachi FIVE-FX Fibre Channel to PCIe HBA
3505 SH7751 PCI Controller (PCIC)
350e SH7751R PCI Controller (PCIC)
1055 Microchip Technology / SMSC
9130 SLC90E66 [Victory66] IDE
9460 SLC90E66 [Victory66] ISA
9462
SLC90E66 [Victory66] USB
9463 SLC90E66 [Victory66] ACPI
e420 LAN9420/LAN9420i
1056 ICL
Motorola made a mistake and used 1507 instead of 1057 in some chips. Please look at the 1507 entry as well when updating this.
1057 Motorola
0001 MPC105 [Eagle]
0002 MPC106 [Grackle]
0003 MPC8240 [Kahlua]
0004 MPC107
0006 MPC8245 [Unity]
0008 MPC8540
0009 MPC8560
0012 MPC8548 [PowerQUICC III]
0100 MC145575 [HFC-PCI]
0431 KTI829c 100VG

1073 Nokia N770
1219 Nokia N800
1801 DSP56301 Digital Signal Processor
14fb 0101 Transas Radar Imitator Board [RIM]
14fb 0102 Transas Radar Imitator Board [RIM-2]
14fb 0202 Transas Radar Integrator Board [RIB-2]
14fb 0611 1 channel CAN bus Controller [CanPci-1]
14fb 0612 2 channels CAN bus Controller [CanPci-2]
14fb 0613 3 channels CAN bus Controller [CanPci-3]
14fb 0614 4 channels CAN bus Controller [CanPci-4]
14fb 0621 1 channel CAN bus Controller [CanPci2-1]
14fb 0622 2 channels CAN bus Controller [CanPci2-2]
14fb
0810 Transas VTS Radar Integrator Board [RIB-4]
175c 4200 ASI4215 Audio Adapter
175c 4300 ASI43xx Audio Adapter
175c 4400 ASI4401 Audio Adapter
ecc0 0010 Darla
ecc0 0020 Gina
ecc0 0030 Layla rev.0
ecc0 0031 Layla rev.1
ecc0 0040 Darla24 rev.0
ecc0 0041 Darla24 rev.1
ecc0 0050 Gina24 rev.0
ecc0 0051 Gina24 rev.1
ecc0 0070 Mona rev.0
ecc0 0071 Mona rev.1
ecc0 0072 Mona rev.2
18c0 MPC8265A/8266/8272
18c1 MPC8271/MPC8272
3052 SM56 Data Fax Modem
3410 DSP56361 Digital Signal Processor
ecc0 0050 Gina24 rev.0
ecc0 0051 Gina24 rev.1
ecc0 0060 Layla24
ecc0 0070 Mona rev.0
ecc0 0071 Mona rev.1
ecc0 0072 Mona rev.2
ecc0 0080 Mia rev.0
ecc0 0081 Mia rev.1
ecc0 0090 Indigo
ecc0 00a0 Indigo IO
ecc0 00b0 Indigo DJ
ecc0 0100 3G
4801 Raven
4802 Falcon
4803 Hawk
4806 CPX8216

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# MPC7410 PowerPC microprocessor and PCI host bridge
 480b  MPC7410
 4d68  20268
 5600  SM56 PCI Modem
  1057 0300  SM56
 PCI Speakerphone Modem
  1057 0301  SM56 PCI Voice Modem
  1057 0302  SM56 PCI Fax Modem
  1057 5600  SM56 PCI Voice modem
  13d2 0300  SM56 PCI Speakerphone Modem
  13d2 0301  SM56 PCI Voice modem
  13d2 0302  SM56 PCI Fax Modem
  1436 0300  SM56 PCI Speakerphone Modem
  1436 0301  SM56 PCI Voice modem
  1436 0302  SM56 PCI Fax Modem
  144f 100c  SM56 PCI Fax Modem
  1494 0300  SM56 PCI Speakerphone Modem
  1494 0301  SM56 PCI Voice modem
  14c8 0300  SM56 PCI Speakerphone Modem
  14c8 0302  SM56 PCI Fax Modem
  1668 0300  SM56 PCI Speakerphone Modem
  1668 0302  SM56 PCI Fax Modem
 5608  Wildcard X100P
 5803  MPC5200
 5806  MCF54 Coldfire
 5808  MPC8220
 5809  MPC5200B
 6400  MPC190 Security Processor (S1 family, encryption)
 6405  MPC184 Security Processor (S1 family)
1058  Electronics & Telecommunications RSH
1059  Kontron
105a  Promise Technology, Inc.
 0d30  PDC20265 (FastTrak100 Lite/Ultra100)
  1043 8042  AV7266-E South Bridge Promise RAID
  105a 4d33  Ultra100
 0d38  20263
  105a
 4d39  Fasttrak66
 1275  20275
 3318  PDC20318 (SATA150 TX4)
 3319  PDC20319 (FastTrak S150 TX4)
  105a 3319  FastTrak S150 TX4 4 port SATA PCI board
  8086 3427  S875WP1-E mainboard
 3371  PDC20371 (FastTrak S150 TX2plus)
 3373  PDC20378 (FastTrak 378/SATA 378)
  1043 80f5  K8V Deluxe/PC-DL Deluxe motherboard
  1462 590d  KT6 Delta-FIS2R (MS-6590)
  1462 702e  K8T NEO FIS2R motherboard
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3375 PDC20375 (SATA150 TX2plus)
3376 PDC20376 (FastTrak 376)
 1043 809e A7V8X motherboard
3515 PDC40719 [FastTrak TX4300/TX4310]
3519 PDC40519 (FastTrak TX4200)
3570 PDC20771 [FastTrak TX2300]
3571 PDC20571 (FastTrak TX2200)
3574 PDC20579 SATAII 150 IDE Controller
3577 PDC40779 (SATA 300 779)
3d17 PDC40718 (SATA 300 TX4)
3d18 PDC20518/PDC40518 (SATAII 150 TX4)
3d73 PDC40775 (SATA 300 TX2plus)
3d75 PDC20575 (SATAII150 TX2plus)
3f20 PDC42819 [FastTrak TX2650/TX4650]
4302 80333 [SuperTrak EX4350]
4d30 PDC20267 (FastTrak100/Ultra100)
 105a 4d33 Ultra100
 105a 4d39 FastTrak100
 8086
5744 S845WD1-E mainboard
4d33 20246
 105a 4d33 20246 IDE Controller
4d38 PDC20262 (FastTrak66/Ultra66)
 105a 4d30 Ultra Device on SuperTrak
 105a 4d33 Ultra66
 105a 4d39 FastTrak66
4d68 PDC20268 [Ultra100 TX2]
 105a 4d68 Ultra100 TX2
4d69 20269
 105a 4d68 Ultra133TX2
5275 PDC20276 (MBFastTrak133 Lite)
 1043 807e A7V333 motherboard.
 105a 0275 SuperTrak SX6000 IDE
 105a 1275 MBFastTrak133 Lite (tm) Controller (RAID mode)
 1458 b001 MBUltra 133
5300 DC5300
6268 PDC20270 (FastTrak100 LP/TX2/TX4)
 105a 4d68 FastTrak100 TX2
6269 PDC20271 (FastTrak TX2000)
 105a 6269 FastTrak TX2/TX2000
6300 PDC81731 [FastTrak SX8300]
6621 PDC20621 (FastTrak S150 SX4/FastTrak SX4000 lite)
6622 PDC20621 [SATA150 SX4] 4 Channel IDE RAID Controller
6624 PDC20621 [FastTrak SX4100]
6626 PDC20618 (Ultra 618)
6629 PDC20619 (FastTrak TX4000)
7275 PDC20277 (SBFastTrak133 Lite)
8002 SATAII150 SX8

8350 80333 [SuperTrak EX8350/EX16350], 80331 [SuperTrak EX8300/EX16300]
8650 81384 [SuperTrak EX SAS and SATA RAID Controller]
105a 4600 SuperTrak EX4650A
105a 4601 SuperTrak EX4650
105a 4610 SuperTrak EX4650EL
105a 8600 SuperTrak EX8650EL
105a 8601 SuperTrak EX8650A
105a 8602 SuperTrak EX8654
105a 8603 SuperTrak EX8658
105a 8604 SuperTrak EX8650
105a 8610 SuperTrak EX8650M
105a a600 SuperTrak EX12650
105a b600 SuperTrak EX16650
105a b601 SuperTrak EX16654
105a b602 SuperTrak EX16658
8760 PM8010 [SuperTrak EX SAS and SATA 6G RAID Controller]
c350 80333 [SuperTrak EX12350]
e350 80333 [SuperTrak EX24350]
105b Foxconn International, Inc.
105c Wipro Infotech Limited
105d Number 9 Computer Company
2309 Imagine 128
2339 Imagine 128-II
105d 0000 Imagine 128 series 2 4Mb VRAM
105d 0001 Imagine 128 series 2 4Mb VRAM
105d 0002 Imagine 128 series 2 4Mb VRAM
105d 0003 Imagine 128 series 2 4Mb VRAM
105d 0004 Imagine 128 series 2 4Mb VRAM
105d 0005 Imagine 128 series 2 4Mb VRAM
105d
0006 Imagine 128 series 2 4Mb VRAM
105d 0007 Imagine 128 series 2 4Mb VRAM
105d 0008 Imagine 128 series 2e 4Mb DRAM
105d 0009 Imagine 128 series 2e 4Mb DRAM
105d 000a Imagine 128 series 2 8Mb VRAM
105d 000b Imagine 128 series 2 8Mb H-VRAM
11a4 000a Barco Metheus 5 Megapixel
13cc 0000 Barco Metheus 5 Megapixel
13cc 0004 Barco Metheus 5 Megapixel
13cc 0005 Barco Metheus 5 Megapixel
13cc 0006 Barco Metheus 5 Megapixel
13cc 0008 Barco Metheus 5 Megapixel
13cc 0009 Barco Metheus 5 Megapixel
13cc 000a Barco Metheus 5 Megapixel
13cc 000c Barco Metheus 5 Megapixel
493d Imagine 128 T2R [Ticket to Ride]
11a4 000a Barco Metheus 5 Megapixel, Dual Head

11a4 000b Barco Metheus 5 Megapixel, Dual Head
13cc 0002 Barco Metheus 4 Megapixel, Dual Head
13cc 0003 Barco Metheus 5 Megapixel, Dual Head
13cc 0007 Barco Metheus 5 Megapixel, Dual Head
13cc 0008 Barco Metheus 5 Megapixel, Dual Head
13cc 0009 Barco Metheus 5 Megapixel, Dual
Head
13cc 000a Barco Metheus 5 Megapixel, Dual Head
5348 Revolution 4
105d 0037 Revolution IV-FP AGP (For SGI 1600SW)
11a4 0028 PVS5600M
11a4 0038 PVS5600D
105e Vtech Computers Ltd
105f Infotronic America Inc
1060 United Microelectronics [UMC]
0001 UM82C881
0002 UM82C886
0101 UM8673F
0881 UM8881
0886 UM8886F
0891 UM8891A
1001 UM886A
673a UM8886BF
673b EIDE Master/DMA
8710 UM8710
886a UM8886A
8881 UM8881F
8886 UM8886F
888a UM8886A
8891 UM8891A
9017 UM9017F
9018 UM9018
9026 UM9026
e881 UM8881N
e886 UM8886N
e88a UM8886N
e891 UM8891N
1061 I.I.T.
0001 AGX016
0002 IIT3204/3501
1062 Maspar Computer Corp
1063 Ocean Office Automation
1064 Alcatel
1102 Dynamite 2840 (ADSL PCI modem)
1065 Texas Microsystems
1066 PicoPower Technology
0000 PT80C826
0001 PT86C521 [Vesuvius v1] Host Bridge

0002 PT86C523 [Vesuvius v3] PCI-ISA Bridge Master
0003 PT86C524 [Nile] PCI-to-PCI Bridge
0004 PT86C525 [Nile-II] PCI-to-PCI Bridge
0005
National PC87550 System Controller
8002 PT86C523 [Vesuvius v3] PCI-ISA Bridge Slave
1067 Mitsubishi Electric
0301 AccelGraphics AccelECLIPSE
0304 AccelGALAXY A2100 [OEM Evans & Sutherland]
0308 Tornado 3000 [OEM Evans & Sutherland]
1002 VG500 [VolumePro Volume Rendering Accelerator]
1068 Diversified Technology
1069 Mylex Corporation
0001 DAC960P
0002 DAC960PD
0010 DAC960PG
0020 DAC960LA
0050 AcceleRAID 352/170/160 support Device
1069 0050 AcceleRAID 352 support Device
1069 0052 AcceleRAID 170 support Device
1069 0054 AcceleRAID 160 support Device
b166 AcceleRAID 600/500/400/Sapphire support Device
1014 0242 iSeries 2872 DASD IOA
1014 0266 Dual Channel PCI-X U320 SCSI Adapter
1014 0278 Dual Channel PCI-X U320 SCSI RAID Adapter
1014 02d3 Dual Channel PCI-X U320 SCSI Adapter
1014 02d4 Dual Channel PCI-X U320 SCSI RAID Adapter
1069 0200 AcceleRAID 400, Single Channel, PCI-X, U320, SCSI RAID
1069 0202 AcceleRAID Sapphire, Dual Channel,
PCI-X, U320, SCSI RAID
1069 0204 AcceleRAID 500, Dual Channel, Low-Profile, PCI-X, U320, SCSI RAID
1069 0206 AcceleRAID 600, Dual Channel, PCI-X, U320, SCSI RAID
ba55 eXtremeRAID 1100 support Device
ba56 eXtremeRAID 2000/3000 support Device
1069 0030 eXtremeRAID 3000 support Device
1069 0040 eXtremeRAID 2000 support Device
ba57 eXtremeRAID 4000/5000 support Device
1069 0072 eXtremeRAID 5000 support Device
106a Aten Research Inc
106b Apple Inc.
0001 Bandit PowerPC host bridge
0002 Grand Central I/O
0003 Control Video
0004 PlanB Video-In
0007 O'Hare I/O
000c DOS on Mac
000e Hydra Mac I/O
0010 Heathrow Mac I/O

0017 Paddington Mac I/O
0018 UniNorth FireWire
0019 KeyLargo USB
001e UniNorth Internal PCI
001f UniNorth PCI
0020 UniNorth AGP
0021 UniNorth GMAC (Sun GEM)
0022 KeyLargo Mac I/O
0024 UniNorth/Pangea GMAC (Sun GEM)
0025 KeyLargo/Pangea Mac I/O
0026 KeyLargo/Pangea USB
0027 UniNorth/Pangea AGP
0028 UniNorth/Pangea
PCI
0029 UniNorth/Pangea Internal PCI
002d UniNorth 1.5 AGP
002e UniNorth 1.5 PCI
002f UniNorth 1.5 Internal PCI
0030 UniNorth/Pangea FireWire
0031 UniNorth 2 FireWire
 106b 5811 iBook G4 2004
0032 UniNorth 2 GMAC (Sun GEM)
0033 UniNorth 2 ATA/100
0034 UniNorth 2 AGP
0035 UniNorth 2 PCI
0036 UniNorth 2 Internal PCI
003b UniNorth/Intrepid ATA/100
003e KeyLargo/Intrepid Mac I/O
003f KeyLargo/Intrepid USB
 1af4 1100 QEMU Virtual Machine
0040 K2 KeyLargo USB
0041 K2 KeyLargo Mac/IO
0042 K2 FireWire
0043 K2 ATA/100
0045 K2 HT-PCI Bridge
0046 K2 HT-PCI Bridge
0047 K2 HT-PCI Bridge
0048 K2 HT-PCI Bridge
0049 K2 HT-PCI Bridge
004a CPC945 HT Bridge
004b U3 AGP
004c K2 GMAC (Sun GEM)
004f Shasta Mac I/O
0050 Shasta IDE
0051 Shasta (Sun GEM)
0052 Shasta Firewire
0053 Shasta PCI Bridge
0054 Shasta PCI Bridge

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 0055  Shasta PCI Bridge
 0056  U4 PCIe
 0057  U3 HT Bridge
 0058  U3L AGP Bridge
 0059  U3H AGP Bridge
 005b  CPC945 PCIe
 Bridge
 0066  Intrepid2 AGP Bridge
 0067  Intrepid2 PCI Bridge
 0068  Intrepid2 PCI Bridge
 0069  Intrepid2 ATA/100
 006a  Intrepid2 Firewire
 006b  Intrepid2 GMAC (Sun GEM)
 0074  U4 HT Bridge
# should be 14e4:1645
 1645  Broadcom NetXtreme BCM5701 Gigabit Ethernet
 1801  T2 Bridge Controller
 1802  T2 Secure Enclave Processor
 1803  Apple Audio Device
 2001  S1X NVMe Controller
 2002  S3ELab NVMe Controller
 2003  S3X NVMe Controller
 2005  ANS2 NVMe Controller
106c  Hynix Semiconductor
 8139  8139c 100BaseTX Ethernet Controller
 8801  Dual Pentium ISA/PCI Motherboard
 8802  PowerPC ISA/PCI Motherboard
 8803  Dual Window Graphics Accelerator
 8804  LAN Controller
 8805  100-BaseT LAN
106d  Sequent Computer Systems
106e  DFI, Inc
106f  City Gate Development Ltd
1070  Daewoo Telecom Ltd
1071  Mitac
 8160  Mitac 8060B Mobile Platform
1072  GIT Co Ltd
1073  Yamaha Corporation
 0001  3D GUI Accelerator
 0002  YGV615 [RPA3 3D-Graphics Controller]
 0003  YMF-740
 0004  YMF-724
  1073 0004
  YMF724-Based PCI Audio Adapter
 0005  DS1 Audio
  1073 0005  DS-XG PCI Audio CODEC
 0006  DS1 Audio
 0008  DS1 Audio
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1073 0008 DS-XG PCI Audio CODEC
000a DS1L Audio
1073 0004 DS-XG PCI Audio CODEC
1073 000a DS-XG PCI Audio CODEC
8086 4d55 DS-XG PCI Audio CODEC [Intel MU440EX]
000c YMF-740C [DS-1L Audio Controller]
107a 000c DS-XG PCI Audio CODEC
000d YMF-724F [DS-1 Audio Controller]
1073 000d DS-XG PCI Audio CODEC
0010 YMF-744B [DS-1S Audio Controller]
1073 0006 DS-XG PCI Audio CODEC
1073 0010 DS-XG PCI Audio CODEC
0012 YMF-754 [DS-1E Audio Controller]
1073 0012 DS-XG PCI Audio Codec
0020 DS-1 Audio
1000 SW1000XG [XG Factory]
2000 DS2416 Digital Mixing Card
1073 2000 DS2416 Digital Mixing Card
1074 NexGen Microsystems
4e78 82c500/1
1075 Advanced Integrations Research
1076 Chaintech Computer Co. Ltd
1077 QLogic Corp.
1016 ISP10160 Single Channel Ultra3 SCSI Processor
1020 ISP1020 Fast-wide SCSI
1022 ISP1022 Fast-wide SCSI
1080
ISP1080 SCSI Host Adapter
1216 ISP12160 Dual Channel Ultra3 SCSI Processor
101e 8471 QLA12160 on AMI MegaRAID
101e 8493 QLA12160 on AMI MegaRAID
1240 ISP1240 SCSI Host Adapter
1280 ISP1280 SCSI Host Adapter
1634 FastLinQ QL45000 Series 40GbE Controller
1077 e4f1 FastLinQ QL45212H 40GbE Adapter
1077 e4f2 FastLinQ QL45211H 40GbE Adapter
1077 e4f3 FastLinQ QL45412H 40GbE Adapter
1077 e4f4 FastLinQ QL45411H 40GbE Adapter
1644 FastLinQ QL45000 Series 100GbE Controller
1077 e4f8 FastLinQ QL45611H 100GbE Adapter
1654 FastLinQ QL45000 Series 50GbE Controller
1077 0032 QL45212 Flex 50Gb 2-port Ethernet Adapter
1590 0223 Synergy 6810C 25/50Gb Ethernet Adapter
1590 0287 Synergy 6820C 25/50Gb CNA
1656 FastLinQ QL45000 Series 25GbE Controller
1077 0033 QL45214 Flex 25Gb 4-port Ethernet Adapter
1077 02a7 QL45212-DE 25GbE Adapter
1077 e4f6 FastLinQ QL45211H 25GbE Adapter

1077 e4f7 FastLinQ QL45212H 25GbE Adapter
1590 0245 10/20/25GbE 2P 4820c
CNA
165c FastLinQ QL45000 Series 10/25/40/50GbE Controller (FCoE)
1077 0034 QL45262 Flex 50Gb 2-port Ethernet Adapter w/ iSCSI/FCoE
1077 e4f1 FastLinQ QL45462H 40GbE FCoE Adapter
1077 e4f2 FastLinQ QL45461H 40GbE FCoE Adapter
1590 0245 10/20/25GbE 2P 4820c CNA FCoE
165e FastLinQ QL45000 Series 10/25/40/50GbE Controller (iSCSI)
1077 0034 QL45262 Flex 50Gb 2-port Ethernet Adapter w/ iSCSI/FCoE
1077 e4f1 FastLinQ QL45462H 40GbE iSCSI Adapter
1077 e4f2 FastLinQ QL45461H 40GbE iSCSI Adapter
1590 0245 10/20/25GbE 2P 4820c CNA iSCSI
1664 FastLinQ QL45000 Series Gigabit Ethernet Controller (SR-IOV VF)
1077 e4f1 FastLinQ QL45462H 40GbE Adapter (SR-IOV VF)
1077 e4f2 FastLinQ QL45461H 40GbE Adapter (SR-IOV VF)
1077 e4f3 FastLinQ QL45412H 40GbE Adapter (SR-IOV VF)
1077 e4f4 FastLinQ QL45411H 40GbE Adapter (SR-IOV VF)
1077 e4f6 FastLinQ QL45211H 25GbE Adapter (SR-IOV VF)
1077 e4f7 FastLinQ QL45212H 25GbE Adapter (SR-IOV VF)
1077 e4f8 FastLinQ QL45611H
100GbE Adapter (SR-IOV VF)
1590 0245 10/20/25GbE 2P 4820c CNA SRIOV
2020 ISP2020A Fast!SCSI Basic Adapter
2031 ISP8324-based 16Gb Fibre Channel to PCI Express Adapter
103c 17e7 SN1000Q 16Gb Single Port Fibre Channel Adapter
103c 17e8 SN1000Q 16Gb Dual Port Fibre Channel Adapter
103c 1939 QMH2672 16Gb Dual Port Fibre Channel Adapter
103c 8002 3830C 16G Fibre Channel Host Bus Adapter
2071 ISP2714-based 16/32Gb Fibre Channel to PCIe Adapter
1077 0283 QLE2764 Quad Port 32Gb Fibre Channel to PCIe Adapter
1077 029e QLE2694 Quad Port 16Gb Fibre Channel to PCIe Adapter
1077 02a2 QLE2694L Quad Port 16Gb Fibre Channel to PCIe Adapter
1077 02ad QLE2694U Quad Port 16/32Gb Fibre Channel to PCIe Adapter
2081 ISP2814-based 64/32G Fibre Channel to PCIe Controller
1077 02e1 QLE2874 Quad Port 64GFC PCIe Gen4 x16 Adapter
1077 02e3 QLE2774 Quad Port 32GFC PCIe Gen4 x16 Adapter
2100 QLA2100 64-bit Fibre Channel Adapter
1077 0001 QLA2100 64-bit Fibre Channel
Adapter
2200 QLA2200 64-bit Fibre Channel Adapter
1077 0002 QLA2200
2261 ISP2722-based 16/32Gb Fibre Channel to PCIe Adapter
1077 0299 QLE2740 Single Port 32Gb Fibre Channel to PCIe Adapter
1077 029a QLE2742 Dual Port 32Gb Fibre Channel to PCIe Adapter
1077 029b QLE2690 Single Port 16Gb Fibre Channel to PCIe Adapter
1077 029c QLE2692 Dual Port 16Gb Fibre Channel to PCIe Adapter
1077 02a7 QLE2690 Single Port 16Gb FC to PCIe Gen3 x8 Adapter

1077 02a8 QLE2692 Dual Port 16Gb FC to PCIe Gen3 x8 Adapter
1077 02ab QLE2740 Single Port 32Gb FC to PCIe Gen3 x8 Adapter
1077 02ac QLE2742 Dual Port 32Gb FC to PCIe Gen3 x8 Adapter
1077 02b8 2x16Gb QME2692 FC HBA
1077 02b9 2x32Gb QME2742 FC HBA
1590 00f9 StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter
1590 00fa StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter
1590 0203 StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter
1590 0204 StoreFabric SN1600Q
32Gb Dual Port Fibre Channel Host Bus Adapter
1590 022d 5830C 32Gb Dual Port Fibre Channel Adapter
2281 ISP2812-based 64/32G Fibre Channel to PCIe Controller
1077 02e2 QLE2872 Dual Port 64GFC PCIe Gen4 x8 Adapter
1077 02e4 QLE2772 Dual Port 32GFC PCIe Gen4 x8 Adapter
1077 02ee QLE2870 Single Port 64GFC PCIe Gen4 x8 Adapter
1077 02f0 QLE2770 Single Port 32GFC PCIe Gen4 x8 Adapter
1077 02f2 QLogic 1x32Gb QLE2770 FC HBA
1077 02f3 QLogic 2x32Gb QLE2772 FC HBA
1590 02d3 SN1610Q - 1P Enhanced 32GFC Single Port Fibre Channel Host Bus Adapter
1590 02d4 SN1610Q – 2P Enhanced 32GFC Dual Port Fibre Channel Host Bus Adapter
2300 QLA2300 64-bit Fibre Channel Adapter
2312 ISP2312-based 2Gb Fibre Channel to PCI-X HBA
103c 0131 2Gb Fibre Channel - Single port [A7538A]
103c 12ba 2Gb Fibre Channel - Dual port [A6826A]
2322 ISP2322-based 2Gb Fibre Channel to PCI-X HBA
2422 ISP2422-based 4Gb Fibre Channel to PCI-X HBA
103c 12d7 4Gb Fibre Channel [AB379A]
103c
12dd 4Gb Fibre Channel [AB429A]
2432 ISP2432-based 4Gb Fibre Channel to PCI Express HBA
103c 7040 FC1142SR 4Gb 1-port PCIe Fibre Channel Host Bus Adapter [HPAE311A]
1077 0137 QLE2460 4 GB PCI-X Host-Bus-Adapter
2532 ISP2532-based 8Gb Fibre Channel to PCI Express HBA
1014 041e FC EN0Y/EN12 PCIe2 LP 8 Gb 4-port Fibre Channel Adapter for POWER
103c 3262 StorageWorks 81Q
103c 3263 StorageWorks 82Q
1077 015c QLE2560 PCI Express to 8Gb FC Single Channel
1077 015d QLE2562 PCI Express to 8Gb FC Dual Channel
1077 015e QLE2564 PCI Express to 8Gb FC Quad Channel
1077 0167 QME2572 Dual Port FC8 HBA Mezzanine
1590 00fc StoreFabric 84Q 8Gb Quad Port Fibre Channel Host Bus Adapter
2971 ISP2684
3022 ISP4022-based Ethernet NIC
3032 ISP4032-based Ethernet IPv6 NIC
4010 ISP4010-based iSCSI TOE HBA
4022 ISP4022-based iSCSI TOE HBA
4032 ISP4032-based iSCSI TOE IPv6 HBA
5432 SP232-based 4Gb Fibre Channel to PCI Express HBA

6312 SP202-based 2Gb Fibre Channel
to PCI-X HBA
6322 SP212-based 2Gb Fibre Channel to PCI-X HBA
7220 IBA7220 InfiniBand HCA
7322 IBA7322 QDR InfiniBand HCA
8000 10GbE Converged Network Adapter (TCP/IP Networking)
8001 10GbE Converged Network Adapter (FCoE)
1014 03af FC 5708/5270 10 Gb FCoE PCIe Dual Port Adapter for POWER
8020 cLOM8214 1/10GbE Controller
1028 1f64 QMD8262-k 10G DP bNDC KR
103c 3346 CN1000Q Dual Port Converged Network Adapter
103c 3733 NC523SFP 10Gb 2-port Server Adapter
1077 0203 8200 Series Single Port 10GbE Converged Network Adapter (TCP/IP Networking)
1077 0207 8200 Series Dual Port 10GbE Converged Network Adapter (TCP/IP Networking)
1077 020b 3200 Series Dual Port 10Gb Intelligent Ethernet Adapter
1077 020c 3200 Series Quad Port 1Gb Intelligent Ethernet Adapter
1077 020f 3200 Series Single Port 10Gb Intelligent Ethernet Adapter
1077 0210 QME8242-k 10GbE Dual Port Mezzanine Card
1077 0233 QME8262-k 10GbE Dual Port Mezzanine Card
8021 8200 Series 10GbE
Converged Network Adapter (FCoE)
103c 3348 CN1000Q Dual Port Converged Network Adapter
1077 0211 QME8242-k 10GbE Dual Port Mezzanine Card, FCoE
8022 8200 Series 10GbE Converged Network Adapter (iSCSI)
103c 3347 CN1000Q Dual Port Converged Network Adapter
1077 0212 QME8242-k 10GbE Dual Port Mezzanine Card, iSCSI
8030 ISP8324 1/10GbE Converged Network Controller
1077 0243 8300 Series Single Port 10GbE Converged Network Adapter (TCP/IP Networking)
1077 0246 8300 Series Dual Port 10GbE Converged Network Adapter (TCP/IP Networking)
8031 8300 Series 10GbE Converged Network Adapter (FCoE)
8032 8300 Series 10GbE Converged Network Adapter (iSCSI)
8070 FastLinQ QL41000 Series 10/25/40/50GbE Controller
1077 0001 10GE 2P QL41162HxRJ-DE Adapter
1077 0002 10GE 2P QL41112HxCU-DE Adapter
1077 0004 4x10GE QL41164HFCU CNA
1077 0005 QLogic 4x10GE QL41164HMRJ CNA
1077 0006 QLogic 4x10GE QL41164HMCU CNA
1077 0007 QLogic 2x1GE+2x10GE QL41264HMCU CNA
1077 0009
QLogic 2x1GE+2x10GE QL41162HMRJ CNA
1077 000b 25GE 2P QL41262HxCU-DE Adapter
1077 000f 2x25GE QL41262HMKR CNA
1077 0010 2x25GE QL41232HMKR NIC
1077 0011 FastLinQ QL41212HLCU 25GbE Adapter
1077 0012 FastLinQ QL41112H 10GbE Adapter
1077 0019 QL41232HOCU - Dual Port 25/10GbE SFP28 OCP Adapter
1077 0039 QLogic QL41262 PCIe 25Gb 2-Port SFP28 Ethernet Adapter
1077 0053 QLogic 2x25GE QL41232HQCU NIC

1077 0054 2x10GE QL41132HQRJ NIC
1077 0055 QLogic 2x10GE QL41132HQCU NIC
1077 0056 2x10GE QL41132HxRJ NIC
1077 0057 2x25GE QL41232HxCU NIC
1077 0065 QLogic 4x10GE QL41154HQRJ CNA
1077 0066 QLogic 4x10GE QL41154HQCU CNA
1077 0068 10GbE 2p SFP+ QL41132HLCU-HC Adapter
1077 0069 10GbE 2p BASE-T QL41132HQRJ-HC OCP3 Adapter
1077 0070 10GbE 2p BASE-T QL41132HLRJ-HC Adapter
1077 0071 10GbE 2p SFP+ QL41132HQCU-HC OCP3 Adapter
1077 0072 10GbE 4p SFP+ QL41134HLCU-HC Adapter
1077 0073 10/25GbE 2p SFP28 QL41232HQCU-HC OCP3 Adapter
1077 0074 10/25GbE
2p SFP28 QL41232HLCU-HC Adapter
1590 021a 10GbE 2P QL41162HLRJ-HP Adapter
1590 021b 10GbE 2P QL41162HLRJ-HP Adapter
1590 021d 10/25GbE 2P QL41222HLCU-HP Adapter
1590 021e 10/25GbE 2P QL41162HMRJ-HP Adapter
1590 021f 10/25GbE 2P QL41262HMCU-HP Adapter
1590 0220 10/25GbE 2P QL41122HLRJ-HP Adapter
1590 02bd 10Gb 2P 524SFP+ NIC
8080 FastLinQ QL41000 Series 10/25/40/50GbE Controller (FCoE)
1077 0001 10GE 2P QL41162HxRJ-DE Adapter
1077 0002 10GE 2P QL41112HxCU-DE Adapter
1077 0004 4x10GE QL41164HFCU CNA
1077 0005 QLogic 4x10GE QL41164HMRJ CNA
1077 0006 QLogic 4x10GE QL41164HMCU CNA
1077 0007 QLogic 2x1GE+2x10GE QL41264HMCU CNA
1077 0009 QLogic 2x1GE+2x10GE QL41162HMRJ CNA
1077 000b 25GE 2P QL41262HxCU-DE Adapter
1077 000c QLogic 2x25GE QL41262HMCU CNA
1077 000d FastLinQ QL41262H 25GbE FCoE Adapter
1077 000e FastLinQ QL41162H 10GbE FCoE Adapter
1077 000f 2x25GE QL41262HMKR CNA
1590 021a 10GbE 2P QL41162HLRJ-HP Adapter
1590
021b 10GbE 2P QL41162HLRJ-HP Adapter
8084 FastLinQ QL41000 Series 10/25/40/50GbE Controller (iSCSI)
1077 0001 10GE 2P QL41162HxRJ-DE Adapter
1077 0002 10GE 2P QL41112HxCU-DE Adapter
1077 0003 4x10GE QL41164HxRJ CNA
1077 0004 4x10GE QL41164HFCU CNA
1077 0005 QLogic 4x10GE QL41164HMRJ CNA
1077 0006 QLogic 4x10GE QL41164HMCU CNA
1077 0007 QLogic 2x25GE QL41262HMCU CNA
1077 0009 QLogic 2x1GE+2x10GE QL41162HMRJ CNA
1077 000b 25GE 2P QL41262HxCU-DE Adapter
1077 000c QLogic 2x25GE QL41262HMCU CNA

1077 000d FastLinQ QL41262H 25GbE iSCSI Adapter
1077 000e FastLinQ QL41162H 10GbE iSCSI Adapter
1077 000f 2x25GE QL41262HMKR CNA
1077 0065 QLogic 4x10GE QL41154HQRJ CNA
1077 0066 QLogic 4x10GE QL41154HQCU CNA
1590 021a 10GbE 2P QL41162HLRJ-HP Adapter
1590 021b 10GbE 2P QL41162HLRJ-HP Adapter
8090 FastLinQ QL41000 Series Gigabit Ethernet Controller (SR-IOV VF)
1077 0001 25GE 2P QL41262HxCU-DE Adapter
1077 0002 10GE 2P QL41112HxCU-DE Adapter
1077
0003 4x10GE QL41164HxRJ CNA
1077 0004 4x10GE QL41164HFCU CNA
1077 0005 QLogic 4x10GE QL41164HMRJ CNA
1077 0006 QLogic 4x10GE QL41164HMCU CNA
1077 0007 QLogic 2x1GE+2x10GE QL41264HMCU CNA
1077 0009 QLogic 2x1GE+2x10GE QL41162HMRJ CNA
1077 000b 25GE 2P QL41262HxCU-DE Adapter
1077 000c QLogic 2x25GE QL41262HMCU CNA
1077 000d FastLinQ QL41262H 25GbE FCoE Adapter (SR-IOV VF)
1077 000e FastLinQ QL41162H 10GbE iSCSI Adapter (SR-IOV VF)
1077 000f 2x25GE QL41262HMKR CNA
1077 0010 2x25GE QL41232HMKR NIC
1077 0011 FastLinQ QL41212H 25GbE Adapter (SR-IOV VF)
1077 0012 FastLinQ QL41112H 10GbE Adapter (SR-IOV VF)
1077 0053 QLogic 2x25GE QL41232HQCU NIC
1077 0054 QLogic 2x10GE QL41132HQRJ NIC
1077 0055 QLogic 2x10GE QL41132HQCU NIC
1077 0056 2x10GE QL41132HxRJ NIC
1077 0057 2x25GE QL41232HxCU NIC
1077 0065 QLogic 4x10GE QL41154HQRJ CNA
1077 0066 QLogic 4x10GE QL41154HQCU CNA
1590 021a 10GbE 2P QL41162HLRJ-HP Adapter
1590 021b
10GbE 2P QL41162HLRJ-HP Adapter
1590 021e 10/25GbE 2P QL41162HMRJ-HP Adapter
1590 021f 10/25GbE 2P QL41262HMCU-HP Adapter
1590 02bd 10Gb 2P 524SFP+ NIC
8430 ISP8324 1/10GbE Converged Network Controller (NIC VF)
8431 8300 Series 10GbE Converged Network Adapter (FCoE VF)
8432 ISP2432M-based 10GbE Converged Network Adapter (CNA)
1078 Cyrix Corporation
0000 5510 [Grappa]
0001 PCI Master
0002 5520 [Cognac]
0100 5530 Legacy [Kahlua]
0101 5530 SMI [Kahlua]
0102 5530 IDE [Kahlua]

0103 5530 Audio [Kahlua]
0104 5530 Video [Kahlua]
0400 ZFMicro PCI Bridge
0401 ZFMicro Chipset SMI
0402 ZFMicro Chipset IDE
0403 ZFMicro Expansion Bus
1079 I-Bus
107a NetWorth
formerly Gateway 2000 / acquired by Acer Inc.
107b Gateway, Inc.
107c LG Electronics [Lucky Goldstar Co. Ltd]
107d LeadTek Research Inc.
0000 P86C850
107e Interphase Corporation
0001 5515 ATM Adapter [Flipper]
0002 100 VG AnyLan Controller
0004 5526 Fibre Channel Host Adapter
0005 x526 Fibre
Channel Host Adapter
0008 5525/5575 ATM Adapter (155 Mbit) [Atlantic]
9003 5535-4P-BRI-ST
9007 5535-4P-BRI-U
9008 5535-1P-SR
900c 5535-1P-SR-ST
900e 5535-1P-SR-U
9011 5535-1P-PRI
9013 5535-2P-PRI
9023 5536-4P-BRI-ST
9027 5536-4P-BRI-U
9031 5536-1P-PRI
9033 5536-2P-PRI
107f Data Technology Corporation
0802 SL82C105
1080 Contaq Microsystems
0600 82C599
c691 Cypress CY82C691
c693 82c693
1081 Supermac Technology
0d47 Radius PCI to NuBUS Bridge
1082 EFA Corporation of America
1083 Forex Computer Corporation
0001 FR710
1084 Parador
1086 J. Bond Computer Systems
1087 Cache Computer
1088 Microcomputer Systems (M) Son
1089 Data General Corporation
Formerly Bit3 Computer Corp.

108a SBS Technologies
0001 VME Bridge Model 617
0010 VME Bridge Model 618
0040 dataBLIZZARD
3000 VME Bridge Model 2706
108c Oakleigh Systems Inc.
108d Olicom
0001 Token-Ring 16/4 PCI Adapter (3136/3137)
0002 16/4 Token Ring
0004 RapidFire OC-3139/3140 Token-Ring
16/4 PCI Adapter
108d 0004 OC-3139/3140 RapidFire Token-Ring 16/4 Adapter
0005 GoCard 3250 Token-Ring 16/4 CardBus PC Card
0006 OC-3530 RapidFire Token-Ring 100
0007 RapidFire 3141 Token-Ring 16/4 PCI Fiber Adapter
108d 0007 OC-3141 RapidFire Token-Ring 16/4 Adapter
0008 RapidFire 3540 HSTR 100/16/4 PCI Adapter
108d 0008 OC-3540 RapidFire HSTR 100/16/4 Adapter
0011 OC-2315
0012 OC-2325
0013 OC-2183/2185
0014 OC-2326
0019 OC-2327/2250 10/100 Ethernet Adapter
108d 0016 OC-2327 Rapidfire 10/100 Ethernet Adapter
108d 0017 OC-2250 GoCard 10/100 Ethernet Adapter
0021 OC-6151/6152 [RapidFire ATM 155]
0022 ATM Adapter
108e Oracle/SUN
0001 EBUS
1000 EBUS
1001 Happy Meal 10/100 Ethernet [hme]
1100 RIO EBUS
108e 1100 RIO EBUS on Blade 100 motherboard
1101 RIO 10/100 Ethernet [eri]
108e 1101 RIO GEM on Blade 100 motherboard
1102 RIO 1394
108e 1102 RIO 1394 on Blade 100 motherboard
1103 RIO USB
108e 1103 RIO USB on Blade 100 motherboard
1647
Broadcom 570x 10/100/1000 Ethernet [bge]
1648 Broadcom 570x 10/100/1000 Ethernet [bge]
16a7 Broadcom 570x 10/100/1000 Ethernet [bge]
16a8 Broadcom 570x 10/100/1000 Ethernet [bge]
2bad GEM 10/100/1000 Ethernet [ge]
5000 Simba Advanced PCI Bridge
108e 5000 Netra AX1105-500
5043 SunPCI Co-processor

5ca0 Crypto Accelerator 6000 [mca]
6300 Intel 21554 PCI-PCI bus bridge [db21554]
6301 Intel 21554 PCI-PCI bus bridge [db21554]
6302 Intel 21554 PCI-PCI bus bridge [db21554]
6303 Intel 21554 PCI-PCI bus bridge [db21554]
6310 Intel 21554 PCI-PCI bus bridge [db21554]
6311 Intel 21554 PCI-PCI bus bridge [db21554]
6312 Intel 21554 PCI-PCI bus bridge [db21554]
6313 Intel 21554 PCI-PCI bus bridge [db21554]
6320 Intel 21554 PCI-PCI bus bridge [db21554]
6323 Intel 21554 PCI-PCI bus bridge [db21554]
6330 Intel 21554 PCI-PCI bus bridge [db21554]
6331 Intel 21554 PCI-PCI bus bridge [db21554]
6332 Intel 21554 PCI-PCI bus bridge [db21554]
6333 Intel
21554 PCI-PCI bus bridge [db21554]
6340 Intel 21554 PCI-PCI bus bridge [db21554]
6343 Intel 21554 PCI-PCI bus bridge [db21554]
6350 Intel 21554 PCI-PCI bus bridge [db21554]
6353 Intel 21554 PCI-PCI bus bridge [db21554]
6722 Intel 21554 PCI-PCI bus bridge [db21554]
676e SunPCiIII
7063 SunPCiII / SunPCiIIpro
8000 Psycho PCI Bus Module
8001 Schizo PCI Bus Module
8002 Schizo+ PCI Bus Module
80f0 PCIe switch [px]
80f8 PCIe switch [px]
9010 PCIe/PCI bridge switch [pxb_plx]
9020 PCIe/PCI bridge switch [pxb_plx]
9102 Davicom Fast Ethernet driver for Davicom DM9102A [dmfe]
a000 Psycho UPA-PCI Bus Module [pcipsy]
a001 Psycho UPA-PCI Bus Module [pcipsy]
108e a001 Ultra IIe on Blade 100 motherboard
a801 Schizo Fireplane-PCI bus bridge module [pcisch]
aaaa Multithreaded Shared 10GbE Ethernet Network Controller
abba Cassini 10/100/1000
abcd Multithreaded 10-Gigabit Ethernet Network Controller
c416 Sun Fire System/System Controller Interface chip [sbbc]
108f
Systemsoft
1090 Compro Computer Services, Inc.
4610 PCI RTOM
4620 GPIO HSD
1091 Intergraph Corporation
0020 3D graphics processor
0021 3D graphics processor w/Texturing
0040 3D graphics frame buffer

0041 3D graphics frame buffer
0060 Proprietary bus bridge
00e4 Powerstorm 4D50T
0720 Motion JPEG codec
0780 Intense3D Wildcat 3410 (MSMT496)
07a0 Sun Expert3D-Lite Graphics Accelerator
1091 Sun Expert3D Graphics Accelerator
1092 Diamond Multimedia Systems
0028 Viper V770
1092 4a00 Viper V770 32MB
00a0 Speedstar Pro SE
00a8 Speedstar 64
0550 Viper V550
08d4 Supra 2260 Modem
094c SupraExpress 56i Pro
1001 Video Crunch It 1001 capture card
1092 Viper V330
6120 Maximum DVD
8810 Stealth SE
8811 Stealth 64/SE
8880 Stealth
8881 Stealth
88b0 Stealth 64
88b1 Stealth 64
88c0 Stealth 64
88c1 Stealth 64
88d0 Stealth 64
88d1 Stealth 64
88f0 Stealth 64
88f1 Stealth 64
9999 DMD-I0928-1 "Monster sound" sound chip
1093 National
Instruments
0160 PCI-DIO-96
0162 PCI-MIO-16XE-50
0fe1 PXI-8320
1150 PCI-6533 (PCI-DIO-32HS)
1170 PCI-MIO-16XE-10
1180 PCI-MIO-16E-1
1190 PCI-MIO-16E-4
11b0 PXI-6070E
11c0 PXI-6040E
11d0 PXI-6030E
1270 PCI-6032E
1290 PCI-6704
12b0 PCI-6534
1310 PCI-6602
1320 PXI-6533

1330 PCI-6031E
1340 PCI-6033E
1350 PCI-6071E
1360 PXI-6602
13c0 PXI-6508
1490 PXI-6534
14e0 PCI-6110
14f0 PCI-6111
1580 PXI-6031E
15b0 PXI-6071E
1710 PXI-6509
17c0 PXI-5690
17d0 PCI-6503
1870 PCI-6713
1880 PCI-6711
18b0 PCI-6052E
18c0 PXI-6052E
1920 PXI-6704
1930 PCI-6040E
19c0 PCI-4472
1aa0 PXI-4110
1ad0 PCI-6133
1ae0 PXI-6133
1e30 PCI-6624
1e40 PXI-6624
1e50 PXI-5404
2410 PCI-6733
2420 PXI-6733
2430 PCI-6731
2470 PCI-4474
24a0 PCI-4065
24b0 PXI-4200
24f0 PXI-4472
2510 PCI-4472
2520 PCI-4474
27a0 PCI-6123
27b0 PXI-6123
2880 DAQCard-6601
2890 PCI-6036E
28a0 PXI-4461
28b0 PCI-6013
28c0 PCI-6014
28d0 PCI-5122
28e0
PXI-5122
29f0 PXI-7334
2a00 PXI-7344
2a60 PCI-6023E

2a70 PCI-6024E
2a80 PCI-6025E
2ab0 PXI-6025E
2b10 PXI-6527
2b20 PCI-6527
2b80 PXI-6713
2b90 PXI-6711
2c60 PCI-6601
2c70 PXI-6601
2c80 PCI-6035E
2c90 PCI-6703
2ca0 PCI-6034E
2cb0 PCI-7344
2cc0 PXI-6608
2d20 PXI-5600
2db0 PCI-6608
2dc0 PCI-4070
2dd0 PXI-4070
2eb0 PXI-4472
2ec0 PXI-6115
2ed0 PCI-6115
2ee0 PXI-6120
2ef0 PCI-6120
2fd1 PCI-7334
2fd2 PCI-7350
2fd3 PCI-7342
2fd5 PXI-7350
2fd6 PXI-7342
7003 PCI-6551
7004 PXI-6551
700b PXI-5421
700c PCI-5421
701a VXIpc-87xB
701b VXIpc-770
7023 PXI-2593
7027 PCI-MXI-2 Universal
702c PXI-7831R
702d PCI-7831R
702e PXI-7811R
702f PCI-7811R
7030 PCI-CAN (Series 2)
7031 PCI-CAN/2 (Series 2)
7032 PCI-CAN/LS (Series 2)
7033 PCI-CAN/LS2 (Series 2)
7034 PCI-CAN/DS (Series 2)
7035 PXI-8460 (Series 2, 1 port)
7036 PXI-8460 (Series 2, 2 ports)
7037 PXI-8461 (Series 2, 1 port)

7038 PXI-8461 (Series
2, 2 ports)
7039 PXI-8462 (Series 2)
703f PXI-2566
7040 PXI-2567
7044 MXI-4 Connection Monitor
7047 PXI-6653
704c PXI-2530
704f PXI-4220
7050 PXI-4204
7055 PXI-7830R
7056 PCI-7830R
705a PCI-CAN/XS (Series 2)
705b PCI-CAN/XS2 (Series 2)
705c PXI-8464 (Series 2, 1 port)
705d PXI-8464 (Series 2, 2 ports)
705e cRIO-9102
7060 PXI-5610
7064 PXI-1045 Trigger Routing Module
7065 PXI-6652
7066 PXI-6651
7067 PXI-2529
7068 PCI-CAN/SW (Series 2)
7069 PCI-CAN/SW2 (Series 2)
706a PXI-8463 (Series 2, 1 port)
706b PXI-8463 (Series 2, 2 ports)
7073 PCI-6723
7074 PXI-7833R
7075 PXI-6552
7076 PCI-6552
707c PXI-1428
707e PXI-4462
7080 PXI-8430/2 (RS-232) Interface
7081 PXI-8431/2 (RS-485) Interface
7083 PCI-7833R
7085 PCI-6509
7086 PXI-6528
7087 PCI-6515
7088 PCI-6514
708c PXI-2568
708d PXI-2569
70a9 PCI-6528
70aa PCI-6229
70ab PCI-6259
70ac PCI-6289
70ad PXI-6251
70ae PXI-6220
70af PCI-6221

70b0 PCI-6220
70b1
PXI-6229
70b2 PXI-6259
70b3 PXI-6289
70b4 PCI-6250
70b5 PXI-6221
70b6 PCI-6280
70b7 PCI-6254
70b8 PCI-6251
70b9 PXI-6250
70ba PXI-6254
70bb PXI-6280
70bc PCI-6284
70bd PCI-6281
70be PXI-6284
70bf PXI-6281
70c0 PCI-6143
70c3 PCI-6511
70c4 PXI-7330
70c5 PXI-7340
70c6 PCI-7330
70c7 PCI-7340
70c8 PCI-6513
70c9 PXI-6515
70ca PCI-1405
70cc PCI-6512
70cd PXI-6514
70ce PXI-1405
70cf PCIe-GPIB
70d0 PXI-2570
70d1 PXI-6513
70d2 PXI-6512
70d3 PXI-6511
70d4 PCI-6722
70d6 PXI-4072
70d7 PXI-6541
70d8 PXI-6542
70d9 PCI-6541
70da PCI-6542
70db PCI-8430/2 (RS-232) Interface
70dc PCI-8431/2 (RS-485) Interface
70dd PXI-8430/4 (RS-232) Interface
70de PXI-8431/4 (RS-485) Interface
70df PCI-8430/4 (RS-232) Interface
70e0 PCI-8431/4 (RS-485) Interface
70e1 PXI-2532
70e2 PXI-8430/8 (RS-232) Interface

70e3 PXI-8431/8 (RS-485) Interface
70e4 PCI-8430/8 (RS-232) Interface
70e5 PCI-8431/8 (RS-485) Interface
70e6 PXI-8430/16
(RS-232) Interface
70e7 PCI-8430/16 (RS-232) Interface
70e8 PXI-8432/2 (Isolated RS-232) Interface
70e9 PXI-8433/2 (Isolated RS-485) Interface
70ea PCI-8432/2 (Isolated RS-232) Interface
70eb PCI-8433/2 (Isolated RS-485) Interface
70ec PXI-8432/4 (Isolated RS-232) Interface
70ed PXI-8433/4 (Isolated RS-485) Interface
70ee PCI-8432/4 (Isolated RS-232) Interface
70ef PCI-8433/4 (Isolated RS-485) Interface
70f0 PXI-5922
70f1 PCI-5922
70f2 PCI-6224
70f3 PXI-6224
70f6 cRIO-9101
70f7 cRIO-9103
70f8 cRIO-9104
70ff PXI-6723
7100 PXI-6722
7104 PCIx-1429
7105 PCIe-1429
710a PXI-4071
710d PXI-6143
710e PCIe-GPIB
710f PXI-5422
7110 PCI-5422
7111 PXI-5441
7119 PXI-6561
711a PXI-6562
711b PCI-6561
711c PCI-6562
7120 PCI-7390
7121 PXI-5122EX
7122 PCI-5122EX
7123 PXIe-5653
7124 PCI-6510
7125 PCI-6516
7126 PCI-6517
7127 PCI-6518
7128 PCI-6519
7137 PXI-2575
713c PXI-2585
713d PXI-2586
7142 PXI-4224

7144 PXI-5124
7145
PCI-5124
7146 PCI-6132
7147 PXI-6132
7148 PCI-6122
7149 PXI-6122
714c PXI-5114
714d PCI-5114
7150 PXI-2564
7152 PCI-5640R
7156 PXI-1044 Trigger Routing Module
715d PCI-1426
7167 PXI-5412
7168 PCI-5412
716b PCI-6230
716c PCI-6225
716d PXI-6225
716f PCI-4461
7170 PCI-4462
7171 PCI-6010
7174 PXI-8360
7177 PXI-6230
717d PCIe-6251
717f PCIe-6259
7187 PCI-1410
718b PCI-6521
718c PXI-6521
7191 PCI-6154
7193 PXI-7813R
7194 PCI-7813R
7195 PCI-8254R
7197 PXI-5402
7198 PCI-5402
719f PCIe-6535
71a0 PCIe-6536
71a3 PXI-5650
71a4 PXI-5652
71a5 PXI-2594
71a7 PXI-2595
71a9 PXI-2596
71aa PXI-2597
71ab PXI-2598
71ac PXI-2599
71ad PCI-GPIB+
71ae PCIe-1430
71b7 PXI-1056 Trigger Routing Module
71b8 PXI-1045 Trigger Routing Module

71b9 PXI-1044 Trigger Routing Module
71bb PXI-2584
71bc PCI-6221 (37-pin)
71bf PCIe-1427
71c5 PCI-6520
71c6 PXI-2576
71c7 cRIO-9072
71dc PCI-1588
71e0 PCI-6255
71e1
 PXI-6255
71e2 PXI-5406
71e3 PCI-5406
71fc PXI-4022
7209 PCI-6233
720a PXI-6233
720b PCI-6238
720c PXI-6238
7260 PXI-5142
7261 PCI-5142
726d PXI-5651
7273 PXI-4461
7274 PXI-4462
7279 PCI-6232
727a PXI-6232
727b PCI-6239
727c PXI-6239
727e SMBus Controller
 1093 75ac PXIe-8388
 1093 75ad PXIe-8389
 1093 7650 PXIe-8381
 1093 8360 PXIe-8360
 1093 8370 PXIe-8370
 1093 8375 PXIe-8375
7281 PCI-6236
7282 PXI-6236
7283 PXI-2554
7288 PXIe-5611
7293 PCIe-8255R
729d cRIO-9074
72a4 PCIe-4065
72a7 PCIe-6537
72a8 PXI-5152
72a9 PCI-5152
72aa PXI-5105
72ab PCI-5105
72b8 PXI-6682
72d0 PXI-2545

72d1 PXI-2546
72d2 PXI-2547
72d3 PXI-2548
72d4 PXI-2549
72d5 PXI-2555
72d6 PXI-2556
72d7 PXI-2557
72d8 PXI-2558
72d9 PXI-2559
72e8 PXIe-6251
72e9 PXIe-6259
72ef PXI-4498
72f0 PXI-4496
72fb PXIe-6672
730e PXI-4130
730f PXI-5922EX
7310 PCI-5922EX
731c PXI-2535
731d PXI-2536
7322 PXIe-6124
7327 PXI-6529
732c
 VXI-8360T
7331 PXIe-5602
7332 PXIe-5601
7333 PXI-5900
7335 PXI-2533
7336 PXI-2534
7342 PXI-4461
7349 PXI-5154
734a PCI-5154
7357 PXI-4065
7359 PXI-4495
7370 PXI-4461
7373 sbRIO-9601
7374 IOtech-9601
7375 sbRIO-9602
7378 sbRIO-9641
737d PXI-5124EX
7384 PXI-7851R
7385 PXI-7852R
7386 PCIe-7851R
7387 PCIe-7852R
7390 PXI-7841R
7391 PXI-7842R
7392 PXI-7853R
7393 PCIe-7841R
7394 PCIe-7842R

7397 sbRIO-9611
7398 sbRIO-9612
7399 sbRIO-9631
739a sbRIO-9632
739b sbRIO-9642
73a1 PXIe-4498
73a2 PXIe-4496
73a5 PXIe-5641R
73a7 PXI-8250 Chassis Monitor Module
73a8 PXI-8511 CAN/LS
73a9 PXI-8511 CAN/LS
73aa PXI-8512 CAN/HS
73ab PXI-8512 CAN/HS
73ac PXI-8513 CAN/XS
73ad PXI-8513 CAN/XS
73af PXI-8516 LIN
73b1 PXI-8517 FlexRay
73b2 PXI-8531 CANopen
73b3 PXI-8531 CANopen
73b4 PXI-8532 DeviceNet
73b5 PXI-8532 DeviceNet
73b6 PCI-8511 CAN/LS
73b7 PCI-8511 CAN/LS
73b8 PCI-8512 CAN/HS
73b9 PCI-8512 CAN/HS
73ba
PCI-8513 CAN/XS
73bb PCI-8513 CAN/XS
73bd PCI-8516 LIN
73bf PCI-8517 FlexRay
73c0 PCI-8531 CANopen
73c1 PCI-8531 CANopen
73c2 PCI-8532 DeviceNet
73c3 PCI-8532 DeviceNet
73c5 PXIe-2527
73c6 PXIe-2529
73c8 PXIe-2530
73c9 PXIe-2532
73ca PXIe-2569
73cb PXIe-2575
73cc PXIe-2593
73d5 PXI-7951R
73d6 PXI-7952R
73d7 PXI-7953R
73e1 PXI-7854R
73ec PXI-7954R
73ed cRIO-9073
73f0 PXI-5153

73f1 PCI-5153
73f4 PXI-2515
73f6 cRIO-9111
73f7 cRIO-9112
73f8 cRIO-9113
73f9 cRIO-9114
73fa cRIO-9116
73fb cRIO-9118
7404 PXI-4132
7405 PXIe-6674T
7406 PXIe-6674
740e PCIe-8430/16 (RS-232) Interface
740f PCIe-8430/8 (RS-232) Interface
7410 PCIe-8431/16 (RS-485) Interface
7411 PCIe-8431/8 (RS-485) Interface
7414 PCIe-GPIB+
741c PXI-5691
741d PXI-5695
743c CSC-3059
7448 PXI-2510
7454 PXI-2512
7455 PXI-2514
7456 PXIe-2512
7457 PXIe-2514
745a PXI-6682H
745e PXI-5153EX
745f PCI-5153EX
7460 PXI-5154EX
7461 PCI-5154EX
746d
PXIe-5650
746e PXIe-5651
746f PXIe-5652
7472 PXI-2800
7495 PXIe-5603
7497 PXIe-5605
74ae PXIe-2515
74b4 PXI-2531
74b5 PXIe-2531
74c1 PXIe-8430/16 (RS-232) Interface
74c2 PXIe-8430/8 (RS-232) Interface
74c3 PXIe-8431/16 (RS-485) Interface
74c4 PXIe-8431/8 (RS-485) Interface
74d5 PXIe-5630
74d9 PCIe-8432/2 (Isolated RS-232) Interface
74da PCIe-8433/2 (Isolated RS-485) Interface
74db PCIe-8432/4 (Isolated RS-232) Interface
74dc PCIe-8433/4 (Isolated RS-485) Interface

74e8 NI 9148
7515 PCIe-8430/2 (RS-232) Interface
7516 PCIe-8430/4 (RS-232) Interface
7517 PCIe-8431/2 (RS-485) Interface
7518 PCIe-8431/4 (RS-485) Interface
751b cRIO-9081
751c cRIO-9082
7528 PXIe-4497
7529 PXIe-4499
752a PXIe-4492
7539 NI 9157
753a NI 9159
7598 PXI-2571
75a4 PXI-4131A
75b1 PCIe-7854R
75ba PXI-2543
75bb PXIe-2543
75e5 PXI-6683
75e6 PXI-6683H
75ef PXIe-5632
761c VXI-8360LT
761f PXI-2540
7620 PXIe-2540
7621 PXI-2541
7622
PXIe-2541
7626 NI 9154
7627 NI 9155
7638 PXI-2720
7639 PXI-2722
763a PXIe-2725
763b PXIe-2727
763c PXI-4465
764b PXIe-2790
764c PXI-2520
764d PXI-2521
764e PXI-2522
764f PXI-2523
7654 PXI-2796
7655 PXI-2797
7656 PXI-2798
7657 PXI-2799
765d PXI-2542
765e PXIe-2542
765f PXI-2544
7660 PXIe-2544
766d PCIe-6535B
766e PCIe-6536B

766f PCIe-6537B
76a3 PXIe-6535B
76a4 PXIe-6536B
76a5 PXIe-6537B
783e PXI-8368
9020 PXI-2501
9030 PXI-2503
9040 PXI-2527
9050 PXI-2565
9060 PXI-2590
9070 PXI-2591
9080 PXI-2580
9090 PCI-4021
90a0 PXI-4021
a001 PCI-MXI-2
b001 PCI-1408
b011 PXI-1408
b021 PCI-1424
b022 PXI-1424
b031 PCI-1413
b041 PCI-1407
b051 PXI-1407
b061 PCI-1411
b071 PCI-1422
b081 PXI-1422
b091 PXI-1411
b0b1 PCI-1409
b0c1 PXI-1409
b0e1 PCI-1428
c4c4 PXIe/PCIe Device
1093 728a PXIe-5421
1093 728b PXIe-5442
1093 728d PXIe-5451
1093 72a2 PXIe-5122
1093 72da PXIe-5422
1093 72f7
PXIe-6535
1093 72f8 PXIe-6536
1093 72f9 PXIe-6537
1093 7326 PCIe-6509
1093 736c PXIe-4140
1093 738b PXIe-5622
1093 73c4 PXIe-5450
1093 73c7 PXIe-6545
1093 73d4 PXIe-6544
1093 7425 PCIe-6320
1093 7427 PCIe-6321
1093 7428 PXIe-6323

1093 7429 PCIe-6323
1093 742a PXIe-6341
1093 742b PCIe-6341
1093 742c PXIe-6343
1093 742d PCIe-6343
1093 742f PCIe-6351
1093 7431 PCIe-6353
1093 7432 PXIe-6361
1093 7433 PCIe-6361
1093 7434 PXIe-6363
1093 7435 PCIe-6363
1093 7436 PXIe-6356
1093 7437 PXIe-6358
1093 7438 PXIe-6366
1093 7439 PXIe-6368
1093 7468 PXIe-5185
1093 7469 PXIe-5186
1093 7492 PXIe-4300
1093 7498 PXIe-6548
1093 7499 PXIe-6547
1093 74a8 PXIe-4330
1093 74a9 PXIe-4331
1093 74b1 PXIe-4154
1093 74b2 PXIe-4353
1093 74b6 PCIe-1433
1093 74cd PXIe-5643R
1093 74d0 PXIe-7961R
1093 74dd PXIe-6376
1093 74de PXIe-6378
1093 74e2 PXIe-7962R
1093 74e3 PXIe-7965R
1093 74e5 PXIe-4844
1093
74f3 PCIe-5140
1093 753c PXIe-1435
1093 7548 PXIe-5622 (25MHz DDC)
1093 754d PCIe-5155
1093 7551 PXIe-6556
1093 7553 PCIe-1473R
1093 7570 PCIe-1474R
1093 7571 PXIe-1475R
1093 7572 PXIe-1476R
1093 75a2 PXIe-5693
1093 75a3 PXIe-5694
1093 75a5 PXIe-4141
1093 75ce PXIe-7966R
1093 75cf PXIe-4357
1093 75d2 PXIe-RevB-5643R

1093 75d3 PXIe-5644R
1093 75ee PXIe-5645R
1093 7613 PXIe-6555
1093 7619 PXIe-5185
1093 761a PXIe-5186
1093 7629 PXIe-4142
1093 762a PXIe-4143
1093 762b PXIe-4138
1093 762c PXIe-4144
1093 762d PXIe-4145
1093 762e PXIe-5606
1093 7644 PXIe-4841
1093 764a PCIe-8237R-S
1093 7658 PXIe-5162 (4CH)
1093 76ab PXIe-4322
1093 76ad PXIe-4112
1093 76ae PXIe-4113
1093 76b5 PXIe-7971R
1093 76b6 PXIe-7972R
1093 76b7 PXIe-7975R
1093 76b8 PXIe-5696
1093 76b9 PXIe-5654
1093 76c8 PXIe-6614
1093 76c9 PXIe-6612
1093 76cb PXIe-5646R
1093 76cc PXIe-5162 (2CH)
1093 76ce
CVS-1459
1093 76d0 PXIe-5160 (2CH)
1093 76d1 PXIe-5160 (4CH)
1093 76dc PXIe-4610
1093 76ec PXIe-2524
1093 76ed PXIe-2525
1093 76ee PXIe-2526
1093 76ef PXIe-2737
1093 76f0 PXIe-2738
1093 76f1 PXIe-2739
1093 76fb PCIe-1473R-LX110
1093 76fc PXIe-5105
1093 76fd PXIe-5114
1093 76fe PXIe-5644R
1093 76ff PXIe-5644R
1093 7700 PXIe-5644R
1093 7701 PXIe-5645R
1093 7702 PXIe-5645R
1093 7703 PXIe-5645R
1093 770c PXIe-4139
1093 7711 PXIe-4464

1093 7712 PXIe-4463
1093 7716 PCIe-6612
1093 771d Unconfigured CA4 Switch
1093 771e PXIe-4339
1093 7735 cRIO-9033
1093 773e PXIe-5624R
1093 774b cRIO-9031
1093 774d cRIO-9034
1093 7755 cRIO-9030
1093 7768 PXIe-2747
1093 7769 PXIe-2748
1093 776a PXIe-2746
1093 7777 PXIe-7976R
1093 7782 PXIe-5646R
1093 7783 PXIe-5646R
1093 7784 PXIe-5646R
1093 7790 PXIe-5170R (4CH)
1093 7791 PXIe-5170R (8CH)
1093 7793 PXIe-5171R (8CH)
1093 77a5 PXIe-6345
1093
77a6 PXIe-6355
1093 77a7 PXIe-6365
1093 77a8 PXIe-6375
1093 77aa CVS-1458
1093 77ad IC-3173
1093 77b4 PXIe-7820R
1093 77b5 PXIe-7821R
1093 77b6 PXIe-7822R
1093 77b9 cRIO-9038
1093 77ba PXIe-4136
1093 77bb PXIe-4137
1093 77c0 PXIe-5624R
1093 77c1 PXIe-5624R
1093 77c2 PXIe-5624R
1093 77ca PXIe-6738
1093 77cb PXIe-6739
1093 77db cRIO-9035
1093 77dc cRIO-9036
1093 77dd cRIO-9039
1093 7802 PXIe-4302
1093 7803 PXIe-4303
1093 7805 PXIe-4305
1093 786f PXIe-4163
1093 788e PXIe-4304
1093 78f8 NI FlexRIO Module (KU035)
1093 78f9 NI FlexRIO Module (KU040)
1093 78fa NI FlexRIO Module (KU060)

1093 78ff PXIe-4162
1093 7995 PXIe-7911R
1093 7996 PXIe-7912R
1093 7997 PXIe-7915R
1093 79d3 NI FlexRIO PCIe Module (KU035)
1093 79d4 NI FlexRIO PCIe Module (KU040)
1093 79d5 NI FlexRIO PCIe Module (KU060)
c801 PCI-GPIB
c811 PCI-GPIB+
c821 PXI-GPIB
c831 PMC-GPIB
c840 PCI-GPIB
d130 PCI-232/2 Interface
d140
PCI-232/4 Interface
d150 PCI-232/8 Interface
d160 PCI-485/2 Interface
d170 PCI-485/4 Interface
d190 PXI-8422/2 (Isolated RS-232) Interface
d1a0 PXI-8422/4 (Isolated RS-232) Interface
d1b0 PXI-8423/2 (Isolated RS-485) Interface
d1c0 PXI-8423/4 (Isolated RS-485) Interface
d1d0 PXI-8420/2 (RS-232) Interface
d1e0 PXI-8420/4 (RS-232) Interface
d1f0 PXI-8420/8 (RS-232) Interface
d1f1 PXI-8420/16 (RS-232) Interface
d230 PXI-8421/2 (RS-485) Interface
d240 PXI-8421/4 (RS-485) Interface
d250 PCI-232/2 (Isolated) Interface
d260 PCI-485/2 (Isolated) Interface
d270 PCI-232/4 (Isolated) Interface
d280 PCI-485/4 (Isolated) Interface
d290 PCI-485/8 Interface
d2a0 PXI-8421/8 (RS-485) Interface
d2b0 PCI-232/16 Interface
e111 PCI-CAN
e131 PXI-8461 (1 port)
e141 PCI-CAN/LS
e151 PXI-8460 (1 port)
e211 PCI-CAN/2
e231 PXI-8461 (2 ports)
e241 PCI-CAN/LS2
e251 PXI-8460 (2 ports)
e261 PCI-CAN/DS
e271 PXI-8462
f110 VMEpc-650
f120 VXIpc-650
fe00

VXIpc-87x
fe41 VXIpc-860
fe51 VXIpc-74x
fe61 VXIpc-850
fe70 VXIpc-880
1094 First International Computers [FIC]
nee CMD Technology Inc
1095 Silicon Image, Inc.
0240 Adaptec AAR-1210SA SATA HostRAID Controller
0640 PCI0640
0643 PCI0643
0646 PCI0646
0647 PCI0647
0648 PCI0648
1043 8025 CUBX motherboard
0649 SiI 0649 Ultra ATA/100 PCI to ATA Host Controller
0e11 005d Integrated Ultra ATA-100 Dual Channel Controller
0e11 007e Integrated Ultra ATA-100 IDE RAID Controller
101e 0649 AMI MegaRAID IDE 100 Controller
0650 PBC0650A
0670 USB0670
1095 0670 USB0670
0673 USB0673
0680 PCI0680 Ultra ATA-133 Host Controller
1095 0680 SiI 0680 ATA/133 Controller
1095 3680 Winic W-680 (Silicon Image 680 based)
3112 SiI 3112 [SATALink/SATARaid] Serial ATA Controller
1095 3112 SiI 3112 SATALink Controller
1095 6112 SiI 3112 SATARaid Controller
9005 0250 SATAConnect 1205SA Host Controller
3114 SiI 3114 [SATALink/SATARaid] Serial ATA
Controller
1043 8167 A8N-SLI Deluxe/Premium Mainboard
1095 3114 SiI 3114 SATALink Controller
1095 6114 SiI 3114 SATARaid Controller
3124 SiI 3124 PCI-X Serial ATA Controller
1095 3124 SiI 3124 PCI-X Serial ATA Controller
3132 SiI 3132 Serial ATA Raid II Controller
3512 SiI 3512 [SATALink/SATARaid] Serial ATA Controller
1095 3512 SiI 3512 SATALink Controller
1095 6512 SiI 3512 SATARaid Controller
3531 SiI 3531 [SATALink/SATARaid] Serial ATA Controller
17c0 4083 Medion WIM 2210 Notebook PC [MD96850]
1096 Alacron
1097 Appian Technology
1098 Quantum Designs (H.K.) Ltd
0001 QD-8500
0002 QD-8580

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1099  Samsung Electronics Co., Ltd
109a  Packard Bell
109b  Gemlight Computer Ltd.
109c  Megachips Corporation
109d  Zida Technologies Ltd.
109e  Brooktree Corporation
 0310  Bt848 Video Capture
 032e  Bt878 Video Capture
 0350  Bt848 Video Capture
 0351  Bt849A Video capture
 0369  Bt878 Video Capture
  1002 0001  TV-Wonder
  1002 0003  TV-Wonder/VE
 036c  Bt879(??)
 Video Capture
  13e9 0070  Win/TV (Video Section)
 036e  Bt878 Video Capture
  0000 0001  Euresys Picolo PCIe
  0070 13eb  WinTV Series
  0070 ff01  Viewcast Osprey 200
  0071 0101  DigiTV PCI
  107d 6606  WinFast TV 2000
  11bd 0012  PCTV pro (TV + FM stereo receiver)
  11bd 001c  PCTV Sat (DBC receiver)
  127a 0001  Bt878 Mediastream Controller NTSC
  127a 0002  Bt878 Mediastream Controller PAL BG
  127a 0003  Bt878a Mediastream Controller PAL BG
  127a 0048  Bt878/832 Mediastream Controller
  144f 3000  MagicTView CPH060 - Video
  1461 0002  TV98 Series (TV/No FM/Remote)
  1461 0003  AverMedia UltraTV PCI 350
  1461 0004  AVerTV WDM Video Capture
  1461 0761  AverTV DVB-T
  1461 0771  AverMedia AVerTV DVB-T 771
  14f1 0001  Bt878 Mediastream Controller NTSC
  14f1 0002  Bt878 Mediastream Controller PAL BG
  14f1 0003  Bt878a Mediastream Controller PAL BG
  14f1 0048  Bt878/832 Mediastream Controller
  1822 0001  VisionPlus DVB card
  1851 1850  FlyVideo'98 - Video
  1851 1851  FlyVideo
 II
  1852 1852  FlyVideo'98 - Video (with FM Tuner)
  18ac d500  DViCO FusionHDTV5 Lite
  270f fc00  Digitop DTT-1000
# Vendor/ID appear to be randomly chosen
  aa00 1460  Spectra8 CardA Input0
# Vendor/ID appear to be randomly chosen
```

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  aa01 1461  Spectra8 CardA Input1
# Vendor/ID appear to be randomly chosen
  aa02 1462  Spectra8 CardA Input2
# Vendor/ID appear to be randomly chosen
  aa03 1463  Spectra8 CardA Input3
# Vendor/ID appear to be randomly chosen
  aa04 1464  Spectra8 CardB Input0
# Vendor/ID appear to be randomly chosen
  aa05 1465  Spectra8 CardB Input1
# Vendor/ID appear to be randomly chosen
  aa06 1466  Spectra8 CardB Input2
# Vendor/ID appear to be randomly chosen
  aa07 1467  Spectra8 CardB Input3
# Vendor/ID appear to be randomly chosen
  aa08 1468  Spectra8 CardC Input0
# Vendor/ID appear to be randomly chosen
  aa09 1469  Spectra8 CardC Input1
# Vendor/ID appear to be randomly chosen
  aa0a 146a  Spectra8 CardC Input2
# Vendor/ID appear to be randomly chosen
  aa0b
 146b  Spectra8 CardC Input3
# Vendor/ID appear to be randomly chosen
  aa0c 146c  Spectra8 CardD Input0
# Vendor/ID appear to be randomly chosen
  aa0d 146d  Spectra8 CardD Input1
# Vendor/ID appear to be randomly chosen
  aa0e 146e  Spectra8 CardD Input2
# Vendor/ID appear to be randomly chosen
  aa0f 146f  Spectra8 CardD Input3
  bd11 1200  PCTV pro (TV + FM stereo receiver)
 036f  Bt879 Video Capture
  127a 0044  Bt879 Video Capture NTSC
  127a 0122  Bt879 Video Capture PAL I
  127a 0144  Bt879 Video Capture NTSC
  127a 0222  Bt879 Video Capture PAL BG
  127a 0244  Bt879a Video Capture NTSC
  127a 0322  Bt879 Video Capture NTSC
  127a 0422  Bt879 Video Capture NTSC
  127a 1122  Bt879 Video Capture PAL I
  127a 1222  Bt879 Video Capture PAL BG
  127a 1322  Bt879 Video Capture NTSC
  127a 1522  Bt879a Video Capture PAL I
  127a 1622  Bt879a Video Capture PAL BG
  127a 1722  Bt879a Video Capture NTSC
  14f1 0044  Bt879 Video Capture NTSC
  14f1 0122  Bt879 Video Capture PAL I
  14f1
```

0144 Bt879 Video Capture NTSC
14f1 0222 Bt879 Video Capture PAL BG
14f1 0244 Bt879a Video Capture NTSC
14f1 0322 Bt879 Video Capture NTSC
14f1 0422 Bt879 Video Capture NTSC
14f1 1122 Bt879 Video Capture PAL I
14f1 1222 Bt879 Video Capture PAL BG
14f1 1322 Bt879 Video Capture NTSC
14f1 1522 Bt879a Video Capture PAL I
14f1 1622 Bt879a Video Capture PAL BG
14f1 1722 Bt879a Video Capture NTSC
1851 1850 FlyVideo'98 - Video
1851 1851 FlyVideo II
1852 1852 FlyVideo'98 - Video (with FM Tuner)
0370 Bt880 Video Capture
1851 1850 FlyVideo'98
1851 1851 FlyVideo'98 EZ - video
1852 1852 FlyVideo'98 (with FM Tuner)
0878 Bt878 Audio Capture
0000 0001 Euresys Picolo PCIe
0070 13eb WinTV Series
0070 ff01 Viewcast Osprey 200
0071 0101 DigiTV PCI
1002 0001 TV-Wonder
1002 0003 TV-Wonder/VE
11bd 0012 PCTV pro (TV + FM stereo receiver, audio section)
11bd 001c PCTV Sat (DBC receiver)
127a 0001 Bt878 Video Capture (Audio Section)
127a
0002 Bt878 Video Capture (Audio Section)
127a 0003 Bt878 Video Capture (Audio Section)
127a 0048 Bt878 Video Capture (Audio Section)
13e9 0070 Win/TV (Audio Section)
144f 3000 MagicTView CPH060 - Audio
1461 0002 Avermedia PCTV98 Audio Capture
1461 0003 UltraTV PCI 350
1461 0004 AVerTV WDM Audio Capture
1461 0761 AVerTV DVB-T
1461 0771 AverMedia AVerTV DVB-T 771
14f1 0001 Bt878 Video Capture (Audio Section)
14f1 0002 Bt878 Video Capture (Audio Section)
14f1 0003 Bt878 Video Capture (Audio Section)
14f1 0048 Bt878 Video Capture (Audio Section)
1822 0001 VisionPlus DVB Card
18ac d500 DViCO FusionHDTV5 Lite
270f fc00 Digitop DTT-1000
bd11 1200 PCTV pro (TV + FM stereo receiver, audio section)
0879 Bt879 Audio Capture

127a 0044 Bt879 Video Capture (Audio Section)
127a 0122 Bt879 Video Capture (Audio Section)
127a 0144 Bt879 Video Capture (Audio Section)
127a 0222 Bt879 Video Capture (Audio Section)
127a 0244
Bt879 Video Capture (Audio Section)
127a 0322 Bt879 Video Capture (Audio Section)
127a 0422 Bt879 Video Capture (Audio Section)
127a 1122 Bt879 Video Capture (Audio Section)
127a 1222 Bt879 Video Capture (Audio Section)
127a 1322 Bt879 Video Capture (Audio Section)
127a 1522 Bt879 Video Capture (Audio Section)
127a 1622 Bt879 Video Capture (Audio Section)
127a 1722 Bt879 Video Capture (Audio Section)
14f1 0044 Bt879 Video Capture (Audio Section)
14f1 0122 Bt879 Video Capture (Audio Section)
14f1 0144 Bt879 Video Capture (Audio Section)
14f1 0222 Bt879 Video Capture (Audio Section)
14f1 0244 Bt879 Video Capture (Audio Section)
14f1 0322 Bt879 Video Capture (Audio Section)
14f1 0422 Bt879 Video Capture (Audio Section)
14f1 1122 Bt879 Video Capture (Audio Section)
14f1 1222 Bt879 Video Capture (Audio Section)
14f1 1322 Bt879 Video Capture (Audio Section)
14f1 1522 Bt879 Video Capture (Audio Section)
14f1 1622 Bt879 Video Capture
(Audio Section)
14f1 1722 Bt879 Video Capture (Audio Section)
0880 Bt880 Audio Capture
2115 BtV 2115 Mediastream controller
2125 BtV 2125 Mediastream controller
2164 BtV 2164
2165 BtV 2165
8230 Bt8230 ATM Segment/Reassembly Ctrlr (SRC)
8472 Bt8472
8474 Bt8474
109f Trigem Computer Inc.
10a0 Meidensha Corporation
10a1 Juko Electronics Ind. Co. Ltd
10a2 Quantum Corporation
10a3 Everex Systems Inc
10a4 Globe Manufacturing Sales
10a5 Smart Link Ltd.
3052 SmartPCI562 56K Modem
5449 SmartPCI561 modem
10a6 Informtech Industrial Ltd.
10a7 Benchmarq Microelectronics
10a8 Sierra Semiconductor

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 0000  STB Horizon 64
10a9  Silicon Graphics Intl. Corp.
 0001  Crosstalk to PCI Bridge
 0002  Linc I/O controller
 0003  IOC3 I/O controller
 0004  O2 MACE
 0005  RAD Audio
 0006  HPCEX
 0007  RPCEX
 0008  DiVO VIP
 0009  AceNIC Gigabit Ethernet
  10a9 8002  AceNIC Gigabit Ethernet
 0010  AMP Video I/O
 0011  GRIP
 0012  SGH PSHAC GSN
 0208  SSIM1 SAS Adapter
 1001  Magic Carpet
 1002
  Lithium
 1003  Dual JPEG 1
 1004  Dual JPEG 2
 1005  Dual JPEG 3
 1006  Dual JPEG 4
 1007  Dual JPEG 5
 1008  Cesium
 100a  IOC4 I/O controller
 1504  SSIM1 Fibre Channel Adapter
 2001  Fibre Channel
 2002  ASDE
 4001  TIO-CE PCI Express Bridge
 4002  TIO-CE PCI Express Port
 8001  O2 1394
 8002  G-net NT
# PCIe x1 Low Profile
 802b  REACT external interrupt controller
10aa  ACC Microelectronics
 0000  ACCM 2188
 2051  2051 CPU bridge
 5842  2051 ISA bridge
10ab  Digicom
10ac  Honeywell IAC
10ad  Symphony Labs
 0001  W83769F
 0003  SL82C103
 0005  SL82C105
 0103  SL82c103
 0105  SL82c105
 0565  W83C553F/W83C554F
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10ae Cornerstone Technology
10af Micro Computer Systems Inc
10b0 CardExpert Technology
10b1 Cabletron Systems Inc
10b2 Raytheon Company
10b3 Databook Inc
3106 DB87144
b106 DB87144
10b4 STB Systems Inc
1b1d Velocity 128 3D
10b4 237e Velocity 4400
10b5 PLX Technology, Inc.
0001 i960 PCI bus interface
0557 PCI9030 32-bit 33MHz PCI <-> IOBus Bridge
10b5
9030 Digium Tormenta 2 T400P-SS7 or E400P-SS7 Quad T1 or E1 PCI card
1000 PCI9030 32-bit 33MHz PCI <-> IOBus Bridge
10b5 9030 ATCOM AT400P Quad T1 PCI card
1024 Acromag, Inc. IndustryPack Carrier Card
1042 Brandywine / jxi2, Inc. - PMC-SyncClock32, IRIG A & B, Nasa 36
106a Dual OX16C952 4 port serial adapter [Megawolf Romulus/4]
1076 VScom 800 8 port serial adaptor
1077 VScom 400 4 port serial adaptor
1078 VScom 210 2 port serial and 1 port parallel adaptor
1103 VScom 200 2 port serial adaptor
1146 VScom 010 1 port parallel adaptor
1147 VScom 020 2 port parallel adaptor
2000 PCI9030 32-bit 33MHz PCI <-> IOBus Bridge
10b5 9030 ATCOM AE400P Quad E1 PCI card
2540 IXXAT CAN-Interface PC-I 04/PCI
2724 Thales PCSM Security Card
3376 Cosateq 4 Port CAN Card
4000 PCI9030 32-bit 33MHz PCI <-> IOBus Bridge
10b5 9030 Tormenta 3 Varion V400P/ATCOM TE400P Quad E1/T1/J1 PCI card
4001 PCI9030 32-bit 33MHz PCI <-> IOBus Bridge
10b5 9030 ATCOM A400PE
Quad E1 PCI card
4002 PCI9030 32-bit 33MHz PCI <-> IOBus Bridge
10b5 9030 ATCOM A400PT Quad T1 PCI card
6140 PCI6140 32-bit 33MHz PCI-to-PCI Bridge
6150 PCI6150 32-bit 33MHz PCI-to-PCI Bridge
6152 PCI6152 32-bit 66MHz PCI-to-PCI Bridge
6154 PCI6154 64-bit 66MHz PCI-to-PCI Bridge
6254 PCI6254 64-bit 66MHz PCI-to-PCI Bridge
6466 PCI6466 64-bit 66MHz PCI-to-PCI Bridge
6520 PCI6520 64-bit 133MHz PCI-X-to-PCI-X Bridge
6540 PCI6540 64-bit 133MHz PCI-X-to-PCI-X Bridge
1775 1100 CR11 Single Board Computer

4c53 10e0 PSL09 PrPMC
6541 PCI6540/6466 PCI-PCI bridge (non-transparent mode, primary side)
1775 1100 CR11 Single Board Computer
4c53 10e0 PSL09 PrPMC
6542 PCI6540/6466 PCI-PCI bridge (non-transparent mode, secondary side)
1775 1100 CR11 Single Board Computer
4c53 10e0 PSL09 PrPMC
8111 PEX 8111 PCI Express-to-PCI Bridge
8112 PEX8112 x1 Lane PCI Express-to-PCI Bridge
8114 PEX 8114 PCI Express-to-PCI/PCI-X Bridge
8311 PEX8311 x1 Lane PCI Express-to-Generic
Local Bus Bridge
8505 PEX 8505 5-lane, 5-port PCI Express Switch
8508 PEX 8508 8-lane, 5-port PCI Express Switch
8509 PEX 8509 8-lane, 8-port PCI Express Switch
8512 PEX 8512 12-lane, 5-port PCI Express Switch
8516 PEX 8516 Versatile PCI Express Switch
8517 PEX 8517 16-lane, 5-port PCI Express Switch
8518 PEX 8518 16-lane, 5-port PCI Express Switch
8524 PEX 8524 24-lane, 6-port PCI Express Switch
8525 PEX 8525 24-lane, 5-port PCI Express Switch
8532 PEX 8532 Versatile PCI Express Switch
8533 PEX 8533 32-lane, 6-port PCI Express Switch
8547 PEX 8547 48-lane, 3-port PCI Express Switch
8548 PEX 8548 48-lane, 9-port PCI Express Switch
8603 PEX 8603 3-lane, 3-Port PCI Express Gen 2 (5.0 GT/s) Switch
8604 PEX 8604 4-lane, 4-Port PCI Express Gen 2 (5.0 GT/s) Switch
8605 PEX 8605 PCI Express 4-port Gen2 Switch
8606 PEX 8606 6 Lane, 6 Port PCI Express Gen 2 (5.0 GT/s) Switch
8608 PEX 8608 8-lane, 8-Port PCI Express Gen 2 (5.0 GT/s) Switch
8609
PEX 8609 8-lane, 8-Port PCI Express Gen 2 (5.0 GT/s) Switch with DMA
8612 PEX 8612 12-lane, 4-Port PCI Express Gen 2 (5.0 GT/s) Switch
8613 PEX 8613 12-lane, 3-Port PCI Express Gen 2 (5.0 GT/s) Switch
8614 PEX 8614 12-lane, 12-Port PCI Express Gen 2 (5.0 GT/s) Switch
8615 PEX 8615 12-lane, 12-Port PCI Express Gen 2 (5.0 GT/s) Switch with DMA
8616 PEX 8616 16-lane, 4-Port PCI Express Gen 2 (5.0 GT/s) Switch
8617 PEX 8617 16-lane, 4-Port PCI Express Gen 2 (5.0 GT/s) Switch with P2P
8618 PEX 8618 16-lane, 16-Port PCI Express Gen 2 (5.0 GT/s) Switch
8619 PEX 8619 16-lane, 16-Port PCI Express Gen 2 (5.0 GT/s) Switch with DMA
8624 PEX 8624 24-lane, 6-Port PCI Express Gen 2 (5.0 GT/s) Switch [ExpressLane]
13a3 1845 DX1845 Acceleration Card
8625 PEX 8625 24-lane, 24-Port PCI Express Gen 2 (5.0 GT/s) Switch
8632 PEX 8632 32-lane, 12-Port PCI Express Gen 2 (5.0 GT/s) Switch
8636 PEX 8636 36-lane, 24-Port PCI Express Gen 2 (5.0 GT/s) Switch
8647 PEX 8647 48-Lane, 3-Port
PCI Express Gen 2 (5.0 GT/s) Switch
8648 PEX 8648 48-lane, 12-Port PCI Express Gen 2 (5.0 GT/s) Switch

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8649  PEX 8649 48-lane, 12-Port PCI Express Gen 2 (5.0 GT/s) Switch
8664  PEX 8664 64-lane, 16-Port PCI Express Gen 2 (5.0 GT/s) Switch
8680  PEX 8680 80-lane, 20-Port PCI Express Gen 2 (5.0 GT/s) Multi-Root Switch
8696  PEX 8696 96-lane, 24-Port PCI Express Gen 2 (5.0 GT/s) Multi-Root Switch
8717  PEX 8717 16-lane, 8-Port PCI Express Gen 3 (8.0 GT/s) Switch with DMA
8718  PEX 8718 16-Lane, 5-Port PCI Express Gen 3 (8.0 GT/s) Switch
8724  PEX 8724 24-Lane, 6-Port PCI Express Gen 3 (8 GT/s) Switch, 19 x 19mm FCBGA
8732  PEX 8732 32-lane, 8-Port PCI Express Gen 3 (8.0 GT/s) Switch
8734  PEX 8734 32-lane, 8-Port PCI Express Gen 3 (8.0GT/s) Switch
8747  PEX 8747 48-Lane, 5-Port PCI Express Gen 3 (8.0 GT/s) Switch
8748  PEX 8748 48-Lane, 12-Port PCI Express Gen 3 (8 GT/s) Switch, 27 x 27mm FCBGA
# This is the Non-Transparent-Bridge Virtualized Port as presented by the PLX
 PEX 8732 chip, the physical bridges show up at 10b5:8732
87b0  PEX 8732 32-lane, 8-Port PCI Express Gen 3 (8.0 GT/s) Switch
 1093 7761  PXIe-8830mc
9016  PLX 9016 8-port serial controller
9030  PCI9030 32-bit 33MHz PCI <-> IOBus Bridge
 10b5 2695  Hilscher CIF50-PB/DPS Profibus
 10b5 2862  Alpermann+Velte PCL PCI LV (3V/5V): Timecode Reader Board
 10b5 2906  Alpermann+Velte PCI TS (3V/5V): Time Synchronisation Board
 10b5 2940  Alpermann+Velte PCL PCI D (3V/5V): Timecode Reader Board
 10b5 2977  IXXAT iPC-I XC16/PCI CAN Board
 10b5 2978  SH ARC-PCIu/SH ARC-PCI104/SH ARC-PCIe SOHARD ARCNET card
 10b5 3025  Alpermann+Velte PCL PCI L (3V/5V): Timecode Reader Board
 10b5 3068  Alpermann+Velte PCL PCI HD (3V/5V): Timecode Reader Board
 10b5 3463  Alpermann+Velte PCL PCI D (v2) (3V/5V): Timecode Reader Board
 10b5 3591  PLURA PCL PCI L (v2) (3.3V/5V): Time Code Reader Board
 12fe 0111  CPCI-ASIO4 (ESD 4-port Serial Interface Board)
 1369 9c01  VX222v2
 1369 9d01  VX222-Mic
 1369
9d02  VX222-Mic
 1369 9e01  PCX924v2
 1369 9f01  PCX924-Mic
 1369 9f02  PCX924-Mic
 1369 a001  PCX22v2
 1369 a701  LCM220v2
 1369 a801  LCM200
 1397 3136  4xS0-ISDN PCI Adapter
 1397 3137  S2M-E1-ISDN PCI Adapter
 1518 0200  ThinkIO-C
 15ed 1002  MCCS 8-port Serial Hot Swap
 15ed 1003  MCCS 16-port Serial Hot Swap
# MIL-STD-1553B Board
 e1c5 0001  TE1-PCI
 e1c5 0005  TA1-PCI
 e1c5 0006  TA1-PCI4
9036  9036
```

9050 PCI <-> IOBus Bridge
10b5 1067 IXXAT CAN i165
10b5 114e Wasco WITIO PCI168extended
10b5 1169 Wasco OPTOIO32standard 32 digital in, 32 digital out
10b5 1172 IK220 (Heidenhain)
10b5 2036 SatPak GPS
10b5 2221 Alpermann+Velte PCL PCI LV: Timecode Reader Board
10b5 2273 SH ARC-PCI SOHARD ARCNET card
10b5 2431 Alpermann+Velte PCL PCI D: Timecode Reader Board
10b5 2905 Alpermann+Velte PCI TS: Time Synchronisation Board
10b5 3196 Goramo PLX200SYN sync serial card
10b5 9050 PCI-I04 PCI Passive PC/CAN Interface
1369 8901 PCX11+
PCI
1369 8f01 VX222
1369 9401 PCX924
1369 9501 PCX22
1498 0362 TPMC866 8 Channel Serial Card
1522 0001 RockForce 4 Port V.90 Data/Fax/Voice Modem
1522 0002 RockForce 2 Port V.90 Data/Fax/Voice Modem
1522 0003 RockForce 6 Port V.90 Data/Fax/Voice Modem
1522 0004 RockForce 8 Port V.90 Data/Fax/Voice Modem
1522 0010 RockForce2000 4 Port V.90 Data/Fax/Voice Modem
1522 0020 RockForce2000 2 Port V.90 Data/Fax/Voice Modem
15ed 1000 Macrolink MCCS 8-port Serial
15ed 1001 Macrolink MCCS 16-port Serial
15ed 1002 Macrolink MCCS 8-port Serial Hot Swap
15ed 1003 Macrolink MCCS 16-port Serial Hot Swap
5654 2036 OpenSwitch 6 Telephony card
5654 3132 OpenSwitch 12 Telephony card
5654 5634 OpenLine4 Telephony Card
d531 c002 PCIntelliCAN 2xSJA1000 CAN bus
d84d 4006 EX-4006 1P
d84d 4008 EX-4008 1P EPP/ECP
d84d 4014 EX-4014 2P
d84d 4018 EX-4018 3P EPP/ECP
d84d 4025 EX-4025 1S(16C550) RS-232
d84d 4027 EX-4027 1S(16C650) RS-232
d84d 4028
EX-4028 1S(16C850) RS-232
d84d 4036 EX-4036 2S(16C650) RS-232
d84d 4037 EX-4037 2S(16C650) RS-232
d84d 4038 EX-4038 2S(16C850) RS-232
d84d 4052 EX-4052 1S(16C550) RS-422/485
d84d 4053 EX-4053 2S(16C550) RS-422/485
d84d 4055 EX-4055 4S(16C550) RS-232
d84d 4058 EX-4055 4S(16C650) RS-232
d84d 4065 EX-4065 8S(16C550) RS-232

d84d 4068 EX-4068 8S(16C650) RS-232
d84d 4078 EX-4078 2S(16C552) RS-232+1P
9052 PCI9052 PCI <-> IOBus Bridge
9054 PCI9054 32-bit 33MHz PCI <-> IOBus Bridge
10b5 2455 Wessex Techology PHIL-PCI
10b5 2696 Innes Corp AM Radcap card
10b5 2717 Innes Corp Auricon card
10b5 2844 Innes Corp TVS Encoder card
12c7 4001 Intel Dialogic DM/V960-4T1 PCI
12d9 0002 PCI Prosody Card rev 1.5
14b4 d100 Dektec DTA-100
14b4 d114 Dektec DTA-120
16df 0011 PIKA PrimeNet MM PCI
16df 0012 PIKA PrimeNet MM cPCI 8
16df 0013 PIKA PrimeNet MM cPCI 8 (without CAS Signaling)
16df 0014 PIKA PrimeNet MM cPCI 4
16df 0015 PIKA Daytona
MM
16df 0016 PIKA InLine MM
9056 PCI9056 32-bit 66MHz PCI <-> IOBus Bridge
10b5 2979 CellinkBlade 11 - CPCI board VoATM AAL1
10b5 3268 IXXAT iPC-I XC16/PCIe CAN Board
10b5 3334 Cambridge Pixel HPx Radar Input Card
10b5 3352 Alpermann+Velte PCL PCIe HD: Timecode Reader Board
10b5 3353 Alpermann+Velte PCL PCIe D: Timecode Reader Board
10b5 3354 Alpermann+Velte PCL PCIe LV: Timecode Reader Board
10b5 3355 Alpermann+Velte PCL PCIe L: Timecode Reader Board
10b5 3415 Alpermann+Velte PCIe TS: Time Synchronisation Board
10b5 3493 Alpermann+Velte PCL PCIe 3G: Timecode Reader Board
10b5 3565 Cambridge Pixel HPx Radar Output Card
1369 c001 LX6464ES
1369 c201 LX1616ES
14b4 d10a DekTec DTA-110T
14b4 d128 Dektec DTA-140
14b4 d140 Dektec DTA-140
1a0e 006f Dektec DTA-111
9060 PCI9060 32-bit 33MHz PCI <-> IOBus Bridge
906d 9060SD
125c 0640 Aries 16000P
906e 9060ES
9080 PCI9080 32-bit; 33MHz PCI <-> IOBus Bridge
103c 10eb (Agilent)
E2777B 83K Series Optical Communication Interface
103c 10ec (Agilent) E6978-66442 PCI CIC
10b5 1123 Sectra KK631 encryption board
10b5 9080 9080 [real subsystem ID not set]
12d9 0002 PCI Prosody Card
12df 4422 4422PCI ["Do-All" Telemetry Data Acquisition System]

1369 9601 PCX822np
1369 a102 PCX822v2
1369 a201 PCX442
1369 a301 LCM440v2
1369 a401 VX822
1369 a402 VX822v2
1369 a901 LCM420
1369 aa01 VX820v2
1517 000b ECSG-1R3ADC-PMC Clock synthesizer
9656 PCI9656 PCI <-> IOBus Bridge
1517 000f ECDR-GC314-PMC Receiver
1885 0700 Tsunami FPGA PMC with Altera Stratix S40
1885 0701 Tsunami FPGA PMC with Altera Stratix S30
9733 PEX 9733 33-lane, 9-port PCI Express Gen 3 (8.0 GT/s) Switch
1d49 0001 ThinkSystem 1610-4P NVMe Switch Adapter
1d49 0002 ThinkSystem 810-4P NVMe Switch Adapter
9749 PEX 9749 49-lane, 13-port PCI Express Gen 3 (8.0 GT/s) Switch
1d49 0004 ThinkSystem 1610-8P NVMe Switch Adapter
a100 Blackmagic Design DeckLink
bb04
B&B 3PCIOSD1A Isolated PCI Serial
c001 CronyxOmega-PCI (8-port RS232)
d00d PCI9030 32-bit 33MHz PCI <-> IOBus Bridge
10b5 9030 Digium Tormenta 2 T400P or E400P Quad T1 or E1 PCI card
d33d PCI9030 32-bit 33MHz PCI <-> IOBus Bridge
10b5 9030 Tormenta 3 Varion V401PT Quad T1/J1 PCI card
d44d PCI9030 32-bit 33MHz PCI <-> IOBus Bridge
10b5 17f6 Allo CP100P/E 1-port E1/T1/J1 PCI/PCIe card
10b5 17f7 Allo CP400P/E 4-port E1/T1/J1 PCI/PCIe card
10b5 17f8 Allo CP200P/E 2-port E1/T1/J1 PCI/PCIe card
10b5 9030 Tormenta 3 Varion V401PE Quad E1 PCI card
10b6 Madge Networks
0001 Smart 16/4 PCI Ringnode
0002 Smart 16/4 PCI Ringnode Mk2
10b6 0002 Smart 16/4 PCI Ringnode Mk2
10b6 0006 16/4 CardBus Adapter
0003 Smart 16/4 PCI Ringnode Mk3
0e11 b0fd Compaq NC4621 PCI, 4/16, WOL
10b6 0003 Smart 16/4 PCI Ringnode Mk3
10b6 0007 Presto PCI Plus Adapter
0004 Smart 16/4 PCI Ringnode Mk1
0006 16/4 Cardbus Adapter
10b6 0006 16/4 CardBus Adapter
0007
Presto PCI Adapter
10b6 0007 Presto PCI
0009 Smart 100/16/4 PCI-HS Ringnode
10b6 0009 Smart 100/16/4 PCI-HS Ringnode

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 000a  Token Ring 100/16/4 Ringnode/Ringrunner
  10b6 000a  Token Ring 100/16/4 Ringnode/Ringrunner
 000b  16/4 CardBus Adapter Mk2
  10b6 0008  16/4 CardBus Adapter Mk2
  10b6 000b  16/4 Cardbus Adapter Mk2
 000c  RapidFire 3140V2 16/4 TR Adapter
  10b6 000c  RapidFire 3140V2 16/4 TR Adapter
 1000  Collage 25/155 ATM Client Adapter
 1001  Collage 155 ATM Server Adapter
10b7  3Com Corporation
 0001  3c985 1000BaseSX (SX/TX)
# wrong ID?
  9850 0001  3c985B-SX
 0013  AR5212 802.11abg NIC (3CRDAG675)
  10b7 2031  3CRDAG675 11a/b/g Wireless PCI Adapter
 0910  3C910-A01
 1006  MINI PCI type 3B Data Fax Modem
 1007  Mini PCI 56k Winmodem
  10b7 615b  Mini PCI 56K Modem
  10b7 615c  Mini PCI 56K Modem
 1201  3c982-TXM 10/100baseTX Dual Port A [Hydra]
 1202  3c982-TXM 10/100baseTX Dual Port B [Hydra]
 1700  3c940 10/100/1000Base-T [Marvell]
  1043 80eb  A7V600/P4P800/K8V
 motherboard
  10b7 0010  3C940 Gigabit LOM Ethernet Adapter
  10b7 0020  3C941 Gigabit LOM Ethernet Adapter
  147b 1407  KV8-MAX3 motherboard
 3390  3c339 TokenLink Velocity
 3590  3c359 TokenLink Velocity XL
  10b7 3590  TokenLink Velocity XL Adapter (3C359/359B)
 4500  3c450 HomePNA [Tornado]
 5055  3c555 Laptop Hurricane
 5057  3c575 Megahertz 10/100 LAN CardBus [Boomerang]
  10b7 5a57  3C575 Megahertz 10/100 LAN Cardbus PC Card
 5157  3cCFE575BT Megahertz 10/100 LAN CardBus [Cyclone]
  10b7 5b57  3C575 Megahertz 10/100 LAN Cardbus PC Card
 5257  3cCFE575CT CardBus [Cyclone]
  10b7 5c57  FE575C-3Com 10/100 LAN CardBus-Fast Ethernet
 5900  3c590 10BaseT [Vortex]
 5920  3c592 EISA 10mbps Demon/Vortex
 5950  3c595 100BaseTX [Vortex]
 5951  3c595 100BaseT4 [Vortex]
 5952  3c595 100Base-MII [Vortex]
 5970  3c597 EISA Fast Demon/Vortex
 5b57  3c595 Megahertz 10/100 LAN CardBus [Boomerang]
  10b7 5b57  3C575 Megahertz 10/100 LAN Cardbus PC Card
 6000  3CRSHPW796 [OfficeConnect Wireless
```

CardBus]
6001 3com 3CRWE154G72 [Office Connect Wireless LAN Adapter]
6055 3c556 Hurricane CardBus [Cyclone]
6056 3c556B CardBus [Tornado]
 10b7 6556 10/100 Mini PCI Ethernet Adapter
6560 3cCFE656 CardBus [Cyclone]
 10b7 656a 3CCFEM656 10/100 LAN+56K Modem CardBus
6561 3cCFEM656 10/100 LAN+56K Modem CardBus
 10b7 656b 3CCFEM656 10/100 LAN+56K Modem CardBus
6562 3cCFEM656B 10/100 LAN+Winmodem CardBus [Cyclone]
 10b7 656b 3CCFEM656B 10/100 LAN+56K Modem CardBus
6563 3cCFEM656B 10/100 LAN+56K Modem CardBus
 10b7 656b 3CCFEM656 10/100 LAN+56K Modem CardBus
6564 3cXFEM656C 10/100 LAN+Winmodem CardBus [Tornado]
7646 3cSOHO100-TX Hurricane
7770 3CRWE777 PCI Wireless Adapter [Airconnect]
7940 3c803 FDDILink UTP Controller
7980 3c804 FDDILink SAS Controller
7990 3c805 FDDILink DAS Controller
80eb 3c940B 10/100/1000Base-T
8811 Token ring
9000 3c900 10BaseT [Boomerang]
9001 3c900 10Mbps Combo [Boomerang]
9004 3c900B-TPO Etherlink XL [Cyclone]
 10b7 9004
 3C900B-TPO Etherlink XL TPO 10Mb
9005 3c900B-Combo Etherlink XL [Cyclone]
 10b7 9005 3C900B-Combo Etherlink XL Combo
9006 3c900B-TPC Etherlink XL [Cyclone]
900a 3c900B-FL 10base-FL [Cyclone]
9050 3c905 100BaseTX [Boomerang]
9051 3c905 100BaseT4 [Boomerang]
9054 3C905B-TX Fast Etherlink XL PCI
 10b7 9054 3C905B-TX Fast Etherlink XL PCI
9055 3c905B 100BaseTX [Cyclone]
 1028 0080 3C905B Fast Etherlink XL 10/100
 1028 0081 3C905B Fast Etherlink XL 10/100
 1028 0082 3C905B Fast Etherlink XL 10/100
 1028 0083 3C905B Fast Etherlink XL 10/100
 1028 0084 3C905B Fast Etherlink XL 10/100
 1028 0085 3C905B Fast Etherlink XL 10/100
 1028 0086 3C905B Fast Etherlink XL 10/100
 1028 0087 3C905B Fast Etherlink XL 10/100
 1028 0088 3C905B Fast Etherlink XL 10/100
 1028 0089 3C905B Fast Etherlink XL 10/100
 1028 0090 3C905B Fast Etherlink XL 10/100
 1028 0091 3C905B Fast Etherlink XL 10/100
 1028 0092 3C905B Fast Etherlink XL 10/100

1028 0093 3C905B Fast
Etherlink XL 10/100
1028 0094 3C905B Fast Etherlink XL 10/100
1028 0095 3C905B Fast Etherlink XL 10/100
1028 0096 3C905B Fast Etherlink XL 10/100
1028 0097 3C905B Fast Etherlink XL 10/100
1028 0098 3C905B Fast Etherlink XL 10/100
1028 0099 3C905B Fast Etherlink XL 10/100
10b7 9055 3C905B Fast Etherlink XL 10/100
9056 3c905B-T4 Fast EtherLink XL [Cyclone]
9058 3c905B Deluxe Etherlink 10/100/BNC [Cyclone]
905a 3c905B-FX Fast Etherlink XL FX 100baseFx [Cyclone]
9200 3c905C-TX/TX-M [Tornado]
1028 0095 3C920 Integrated Fast Ethernet Controller
1028 0097 3C920 Integrated Fast Ethernet Controller
1028 00b4 OptiPlex GX110
1028 00d8 Precision 530
1028 00fe Optiplex GX240
1028 012a 3C920 Integrated Fast Ethernet Controller [Latitude C640]
10b7 1000 3C905CX-TX/TX-M Fast Etherlink for PC Management NIC
10b7 7000 10/100 Mini PCI Ethernet Adapter
10f1 2466 Tiger MPX S2466 (3C920 Integrated Fast Ethernet Controller)
144d c005 X10 Laptop
9201
3C920B-EMB Integrated Fast Ethernet Controller [Tornado]
1043 80ab A7N8X Deluxe onboard 3C920B-EMB Integrated Fast Ethernet Controller
9202 3Com 3C920B-EMB-WNM Integrated Fast Ethernet Controller
9210 3C920B-EMB-WNM Integrated Fast Ethernet Controller
9300 3CSOHO100B-TX 910-A01 [tulip]
9800 3c980-TX Fast Etherlink XL Server Adapter [Cyclone]
10b7 9800 3c980-TX Fast Etherlink XL Server Adapter
9805 3c980-C 10/100baseTX NIC [Python-T]
10b7 1201 EtherLink Server 10/100 Dual Port A
10b7 1202 EtherLink Server 10/100 Dual Port B
10b7 9805 3c980 10/100baseTX NIC [Python-T]
10f1 2462 Thunder K7 S2462
9900 3C990-TX [Typhoon]
9902 3CR990-TX-95 [Typhoon 56-bit]
9903 3CR990-TX-97 [Typhoon 168-bit]
9904 3C990B-TX-M/3C990BSVR [Typhoon2]
10b7 1000 3CR990B-TX-M [Typhoon2]
10b7 2000 3CR990BSVR [Typhoon2 Server]
9905 3CR990-FX-95/97/95 [Typhon Fiber]
10b7 1101 3CR990-FX-95 [Typhoon Fiber 56-bit]
10b7 1102 3CR990-FX-97 [Typhoon Fiber 168-bit]
10b7 2101
3CR990-FX-95 Server [Typhoon Fiber 56-bit]
10b7 2102 3CR990-FX-97 Server [Typhoon Fiber 168-bit]

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9908  3CR990SVR95 [Typhoon Server 56-bit]
9909  3CR990SVR97 [Typhoon Server 168-bit]
990a  3C990SVR [Typhoon Server]
990b  3C990SVR [Typhoon Server]
10b8  Standard Microsystems Corp [SMC]
0005  83c170 EPIC/100 Fast Ethernet Adapter
  1055 e000  LANEPIC 10/100 [EVB171Q-PCI]
  1055 e002  LANEPIC 10/100 [EVB171G-PCI]
  10b8 a011  EtherPower II 10/100
  10b8 a014  EtherPower II 10/100
  10b8 a015  EtherPower II 10/100
  10b8 a016  EtherPower II 10/100
  10b8 a017  EtherPower II 10/100
0006  83c175 EPIC/100 Fast Ethernet Adapter
  1055 e100  LANEPIC Cardbus Fast Ethernet Adapter
  1055 e102  LANEPIC Cardbus Fast Ethernet Adapter
  1055 e300  LANEPIC Cardbus Fast Ethernet Adapter
  1055 e302  LANEPIC Cardbus Fast Ethernet Adapter
  10b8 a012  LANEPIC Cardbus Fast Ethernet Adapter
  13a2 8002  LANEPIC Cardbus Fast Ethernet Adapter
  13a2 8006  LANEPIC Cardbus Fast Ethernet Adapter
1000
 FDC 37c665
1001  FDC 37C922
a011  83C170QF
b106  SMC34C90
# Split off ALi Corporation in 2003
10b9  ULi Electronics Inc.
0101  CMI8338/C3DX PCI Audio Device
0111  C-Media CMI8738/C3DX Audio Device (OEM)
  10b9 0111  C-Media CMI8738/C3DX Audio Device (OEM)
0780  Multi-IO Card
0782  Multi-IO Card
1435  M1435
1445  M1445
1449  M1449
1451  M1451
1461  M1461
1489  M1489
1511  M1511 [Aladdin]
1512  M1512 [Aladdin]
1513  M1513 [Aladdin]
1521  M1521 [Aladdin III]
  10b9 1521  ALI M1521 Aladdin III CPU Bridge
1523  M1523
  10b9 1523  ALI M1523 ISA Bridge
1531  M1531 [Aladdin IV]
1533  M1533/M1535/M1543 PCI to ISA Bridge [Aladdin IV/V/V+]
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1014 053b ThinkPad R40e
10b9 1533 ALi M1533 Aladdin IV/V ISA Bridge
1541 M1541
10b9 1541 ALI M1541 Aladdin V/V+ AGP System Controller
1543 M1543
1563 M1563 HyperTransport South Bridge
10b9 1563 ASRock 939Dual-SATA2 Motherboard
1849 1563 ASRock 939Dual-SATA2 Motherboard
1573 PCI to LPC Controller
1575 M1575 South
Bridge
1621 M1621
1631 ALI M1631 PCI North Bridge Aladdin Pro III
1632 M1632M Northbridge+Trident
1641 ALI M1641 PCI North Bridge Aladdin Pro IV
1644 M1644/M1644T Northbridge+Trident
1646 M1646 Northbridge+Trident
1647 M1647 Northbridge [MAGiK 1 / MobileMAGiK 1]
1651 M1651/M1651T Northbridge [Aladdin-Pro 5/5M,Aladdin-Pro 5T/5TM]
1671 M1671 Super P4 Northbridge [AGP4X,PCI and SDR/DDR]
1672 M1672 Northbridge [CyberALADDiN-P4]
1681 M1681 P4 Northbridge [AGP8X,HyperTransport and SDR/DDR]
1687 M1687 K8 Northbridge [AGP8X and HyperTransport]
1689 M1689 K8 Northbridge [Super K8 Single Chip]
1695 M1695 Host Bridge
1697 M1697 HTT Host Bridge
3141 M3141
3143 M3143
3145 M3145
3147 M3147
3149 M3149
3151 M3151
3307 M3307
3309 M3309
3323 M3325 Video/Audio Decoder
5212 M4803
5215 MS4803
5217 M5217H
5219 M5219
5225 M5225
5228 M5228 ALi ATA/RAID Controller
5229 M5229 IDE
1014 050f ThinkPad R30
1014 053d ThinkPad R40e
103c 0024 Pavilion
ze4400 builtin IDE
103c 0025 XE4500 Notebook
1043 8053 A7A266 Motherboard IDE

1849 5229 ASRock 939Dual-SATA2 Motherboard IDE (PATA)
5235 M5225
5237 USB 1.1 Controller
1014 0540 ThinkPad R40e
103c 0024 Pavilion ze4400 builtin USB
103c 0025 XE4500 Notebook
104d 810f VAIO PCG-U1 USB/OHCI Revision 1.0
10b9 5237 ASRock 939Dual-SATA2 Motherboard
1849 5237 ASRock 939Dual-SATA2 Motherboard
5239 USB 2.0 Controller
10b9 5239 ASRock 939Dual-SATA2 Motherboard
1849 5239 ASRock 939Dual-SATA2 Motherboard
5243 M1541 PCI to AGP Controller
5246 AGP8X Controller
5247 PCI to AGP Controller
5249 M5249 HTT to PCI Bridge
524b PCI Express Root Port
524c PCI Express Root Port
524d PCI Express Root Port
524e PCI Express Root Port
5251 M5251 P1394 OHCI 1.0 Controller
5253 M5253 P1394 OHCI 1.1 Controller
5261 M5261 Ethernet Controller
5263 ULi 1689,1573 integrated ethernet.
5281 ALi M5281 Serial ATA / RAID Host Controller
5287 ULi 5287 SATA
5288
ULi M5288 SATA
1043 8056 A8R-MVP Mainboard
5289 ULi 5289 SATA
5450 Lucent Technologies Soft Modem AMR
5451 M5451 PCI AC-Link Controller Audio Device
1014 0506 ThinkPad R30
1014 053e ThinkPad R40e
103c 0024 Pavilion ze4400 builtin Audio
103c 0025 XE4500 Notebook
5453 M5453 PCI AC-Link Controller Modem Device
5455 M5455 PCI AC-Link Controller Audio Device
10b9 5455 ASRock 939Dual-SATA2 Motherboard
1849 0850 ASRock 939Dual-SATA2 Motherboard
5457 M5457 AC'97 Modem Controller
1014 0535 ThinkPad R40e
103c 0024 Pavilion ze4400 builtin Modem Device
103c 0025 XE4500 Notebook
5459 SmartLink SmartPCI561 56K Modem
545a SmartLink SmartPCI563 56K Modem
5461 HD Audio Controller
5471 M5471 Memory Stick Controller

5473 M5473 SD-MMC Controller
7101 M7101 Power Management Controller [PMU]
1014 0510 ThinkPad R30
1014 053c ThinkPad R40e
103c 0024 Pavilion ze4400
103c 0025 XE4500 Notebook
1849 7101 ASRock 939Dual-SATA2 Motherboard
10ba
Mitsubishi Electric Corp.
0301 AccelGraphics AccelECLIPSE
0304 AccelGALAXY A2100 [OEM Evans & Sutherland]
0308 Tornado 3000 [OEM Evans & Sutherland]
10dd 0024 Tornado 3000
1002 VG500 [VolumePro Volume Rendering Accelerator]
10bb Dapha Electronics Corporation
10bc Advanced Logic Research
10bd Surecom Technology
0e34 NE-34
10be Tseng Labs International Co.
10bf Most Inc
10c0 Boca Research Inc.
10c1 ICM Co., Ltd.
10c2 Auspex Systems Inc.
10c3 Samsung Semiconductors, Inc.
10c4 Award Software International Inc.
10c5 Xerox Corporation
10c6 Rambus Inc.
10c7 Media Vision
10c8 Neomagic Corporation
0001 NM2070 [MagicGraph 128]
0002 NM2090 [MagicGraph 128V]
0003 NM2093 [MagicGraph 128ZV]
0004 NM2160 [MagicGraph 128XD]
1014 00ba MagicGraph 128XD
1025 1007 MagicGraph 128XD
1028 0074 MagicGraph 128XD
1028 0075 MagicGraph 128XD
1028 007d MagicGraph 128XD
1028 007e MagicGraph 128XD
1033 802f MagicGraph 128XD
104d 801b MagicGraph 128XD
104d
802f MagicGraph 128XD
104d 830b MagicGraph 128XD
10ba 0e00 MagicGraph 128XD
10c8 0004 MagicGraph 128XD
10cf 1029 MagicGraph 128XD
10f7 8308 MagicGraph 128XD

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	10f7 8309  MagicGraph 128XD
	10f7 830b  MagicGraph 128XD
	10f7 830d  MagicGraph 128XD
	10f7 8312  MagicGraph 128XD
	0005  NM2200 [MagicGraph 256AV]
	1014 00dd  ThinkPad 570
	1028 0088  Latitude CPi A
	0006  NM2360 [MagicMedia 256ZX]
	1014 0152  ThinkPad 600X
	0016  NM2380 [MagicMedia 256XL+]
	10c8 0016  MagicMedia 256XL+
	0025  NM2230 [MagicGraph 256AV+]
	0083  NM2093 [MagicGraph 128ZV+]
	8005  NM2200 [MagicMedia 256AV Audio]
	0e11 b0d1  MagicMedia 256AV Audio Device on Discovery
	0e11 b126  MagicMedia 256AV Audio Device on Durango
	1014 00dd  ThinkPad 390/i1720/i1721
	1025 1003  MagicMedia 256AV Audio Device on TravelMate 720
	1028 0088  Latitude CPi A
	1028 008f  MagicMedia 256AV Audio Device on Colorado Inspiron
	103c 0007  MagicMedia 256AV Audio Device on Voyager II
	103c 0008  MagicMedia 256AV
	Audio Device on Voyager III
	103c 000d  MagicMedia 256AV Audio Device on Omnibook 900
	10c8 8005  MagicMedia 256AV Audio Device on FireAnt
	110a 8005  MagicMedia 256AV Audio Device
	14c0 0004  MagicMedia 256AV Audio Device
	8006  NM2360 [MagicMedia 256ZX Audio]
	8016  NM2380 [MagicMedia 256XL+ Audio]
10c9  Dataexpert Corporation
10ca  Fujitsu Microelectr., Inc.
10cb  Omron Corporation
# nee Mentor ARC Inc
10cc  Mai Logic Incorporated
	0660  Articia S Host Bridge
	0661  Articia S PCI Bridge
10cd  Advanced System Products, Inc
	1100  ASC1100
	1200  ASC1200 [(abp940) Fast SCSI-II]
	1300  ASC1300 / ASC3030 [ABP940-U / ABP960-U / ABP3925]
	10cd 1310  ASC1300/3030 SCSI adapter
	1195 1320  Ultra-SCSI CardBus PC Card REX CB31
	2300  ABP940-UW
	2500  ABP940-U2W
	2700  ABP3950-U3W
10ce  Radius
# nee Citicorp TTI
10cf  Fujitsu Limited.
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01ef PCEA4 PCI-Express Dual Port ESCON Adapter
1414 On-board USB 1.1 companion controller
1415 On-board USB 2.0 EHCI controller
1422 E8410 nVidia
graphics adapter
142d HD audio (Realtek ALC262)
1430 82566MM Intel 1Gb copper LAN interface
1623 PCEA4 PCI-Express Dual Port ESCON Adapter
2001 mb86605
200c MB86613L IEEE1394 OHCI 1.0 Controller
2010 MB86613S IEEE1394 OHCI 1.1 Controller
2019 MB86295S [CORAL P]
201e MB86296S [CORAL PA]
202b MB86297A [Carmine Graphics Controller]
10d1 FuturePlus Systems Corp.
10d2 Molex Incorporated
10d3 Jabil Circuit Inc
10d4 Hualon Microelectronics
10d5 Autologic Inc.
10d6 Cetia
10d7 BCM Advanced Research
10d8 Advanced Peripherals Labs
10d9 Macronix, Inc. [MXIC]
0431 MX98715
0512 MX98713
0531 MX987x5
1186 1200 DFE-540TX ProFAST 10/100 Adapter
8625 MX86250
8626 Macronix MX86251 + 3Dfx Voodoo Rush
8888 MX86200
10da Compaq IPG-Austin
0508 TC4048 Token Ring 4/16
3390 Tl3c3x9
10db Rohm LSI Systems, Inc.
10dc CERN/ECP/EDU
0001 STAR/RD24 SCI-PCI (PMC)
0002 TAR/RD24 SCI-PCI (PMC)
0021 HIPPI destination
0022 HIPPI source
10dc ATT2C15-3 FPGA
10dd Evans
& Sutherland
0100 Lightning 1200
10dd 0023 Lightning 1200 15+16M
10de NVIDIA Corporation
0008 NV1 [STG2000X-B Series]
0009 NV1 [NV1 Series]
0018 NV3 [Riva 128]

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0019  NV3 [Riva 128ZX]
0020  NV4 [Riva TNT]
 1043 0200  V3400 TNT
 1048 0c18  Erazor II SGRAM
 1048 0c19  Erazor II
 1048 0c1b  Erazor II
 1048 0c1c  Erazor II
 1092 0550  Viper V550
 1092 0552  Viper V550
 1092 4804  Viper V550
 1092 4808  Viper V550
 1092 4810  Viper V550
 1092 4812  Viper V550
 1092 4815  Viper V550
 1092 4820  Viper V550 with TV out
 1092 4822  Viper V550
 1092 4904  Viper V550
 1092 4914  Viper V550
 1092 8225  Viper V550
 10b4 273d  Velocity 4400
 10b4 273e  Velocity 4400
 10b4 2740  Velocity 4400
 10de 0020  Riva TNT
 1102 1015  Graphics Blaster CT6710
 1102 1016  Graphics Blaster RIVA TNT
0028  NV5 [Riva TNT2 / TNT2 Pro]
 1043 0200  AGP-V3800 SGRAM
 1043 0201  AGP-V3800 SDRAM
 1043 0205  PCI-V3800
 1043 4000  AGP-V3800PRO
 1048 0c21  Synergy II
 1048 0c28  Erazor
III
 1048 0c29  Erazor III
 1048 0c2a  Erazor III
 1048 0c2b  Erazor III
 1048 0c31  Erazor III Pro
 1048 0c32  Erazor III Pro
 1048 0c33  Erazor III Pro
 1048 0c34  Erazor III Pro
 107d 2134  WinFast 3D S320 II + TV-Out
 1092 4804  Viper V770
 1092 4a00  Viper V770
 1092 4a02  Viper V770 Ultra
 1092 5a00  RIVA TNT2/TNT2 Pro
 1092 5a40  Viper V770D AGP
 1092 6a02  Viper V770 Ultra
 1092 7a02  Viper V770 Ultra
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	10de 0005  RIVA TNT2 Pro
	10de 000f  Compaq NVIDIA TNT2 Pro
	1102 1020  3D Blaster RIVA TNT2
	1102 1026  3D Blaster RIVA TNT2 Digital
	1462 8806  MS-8806 AGPhantom Graphics Card
	14af 5810  Maxi Gamer Xentor
	0029  NV5 [Riva TNT2 Ultra]
	1043 0200  AGP-V3800 Deluxe
	1043 0201  AGP-V3800 Ultra SDRAM
	1043 0205  PCI-V3800 Ultra
	1048 0c2e  Erazor III Ultra
	1048 0c2f  Erazor III Ultra
	1048 0c30  Erazor III Ultra
	1102 1021  3D Blaster RIVA TNT2 Ultra
	1102 1029  3D Blaster RIVA TNT2 Ultra
	1102 102f  3D Blaster RIVA TNT2 Ultra
	14af 5820  Maxi Gamer
	Xentor 32
	4843 4f34  Dynamite
	002a  NV5 [Riva TNT2]
	002b  NV5 [Riva TNT2]
	002c  NV5 [Vanta / Vanta LT]
	1043 0200  AGP-V3800 Combat SDRAM
	1043 0201  AGP-V3800 Combat
	1048 0c20  TNT2 Vanta
	1048 0c21  TNT2 Vanta
	1048 0c25  TNT2 Vanta 16MB
	1092 6820  Viper V730
	1102 1031  CT6938 VANTA 8MB
	1102 1034  CT6894 VANTA 16MB
	14af 5008  Maxi Gamer Phoenix 2
	002d  NV5 [Riva TNT2 Model 64 / Model 64 Pro]
	1043 0200  AGP-V3800M
	1043 0201  AGP-V3800M
	1048 0c3a  Erazor III LT
	1048 0c3b  Erazor III LT
	107d 2137  WinFast 3D S325
	10de 0006  RIVA TNT2 Model 64/Model 64 Pro
	10de 001e  M64 AGP4x
	1102 1023  CT6892 RIVA TNT2 Value
	1102 1024  CT6932 RIVA TNT2 Value 32Mb
	1102 102c  CT6931 RIVA TNT2 Value [Jumper]
	1102 1030  CT6931 RIVA TNT2 Value
	# S26361-D1243-V116
	110a 006f  GM1000-16
	# S26361-D1243-V216
	110a 0081  GM1000-16
	1462 8808  MSI-8808
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14af 5620 Gamer Cougar Video Edition
1554 1041 Pixelview RIVA TNT2 M64
1569 002d Palit Microsystems Daytona
TNT2 M64
0034 MCP04 SMBus
0035 MCP04 IDE
0036 MCP04 Serial ATA Controller
0037 MCP04 Ethernet Controller
0038 MCP04 Ethernet Controller
003a MCP04 AC'97 Audio Controller
003b MCP04 USB Controller
003c MCP04 USB Controller
003d MCP04 PCI Bridge
003e MCP04 Serial ATA Controller
0040 NV40 [GeForce 6800 Ultra]
0041 NV40 [GeForce 6800]
1043 817b V9999 Gamer Edition
107d 2992 WinFast A400
1458 310f Geforce 6800 GV-N6812
0042 NV40 [GeForce 6800 LE]
107d 299b WinFast A400 LE
0043 NV40 [GeForce 6800 XE]
0044 NV40 [GeForce 6800 XT]
0045 NV40 [GeForce 6800 GT]
1043 817d V9999GT
1458 3140 GV-N68T256D
0047 NV40 [GeForce 6800 GS]
1682 2109 GeForce 6800 GS
0048 NV40 [GeForce 6800 XT]
004e NV40GL [Quadro FX 4000]
0050 CK804 ISA Bridge
1043 815a K8N4/A8N Series Mainboard
10f1 2865 Tomcat K8E (S2865)
1458 0c11 GA-K8N Ultra-9 Mainboard
1462 7100 MSI K8N Diamond
1462 7125 K8N Neo4-F mainboard
147b 1c1a KN8-Ultra Mainboard
1565
3402 NF4 AM2L Mainboard
0051 CK804 ISA Bridge
1028 0225 PowerEdge T105 ISA Bridge
0052 CK804 SMBus
1028 0225 PowerEdge T105 SMBus
1043 815a K8N4/A8N Series Mainboard
10f1 2865 Tomcat K8E (S2865)
1458 0c11 GA-K8N Ultra-9 Mainboard
1462 7100 MSI K8N Diamond
1462 7125 K8N Neo4-F mainboard

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 147b 1c1a  KN8-Ultra Mainboard
 1565 3402  NF4 AM2L Mainboard
0053  CK804 IDE
 1043 815a  K8N4/A8N Series Mainboard
 10f1 2865  Tomcat K8E (S2865)
 1458 5002  GA-K8N Ultra-9 Mainboard
 1462 7100  MSI K8N Diamond
 1462 7125  K8N Neo4-F mainboard
 147b 1c1a  KN8-Ultra Mainboard
 1565 3402  NF4 AM2L Mainboard
0054  CK804 Serial ATA Controller
 1028 0225  PowerEdge T105 Serial ATA
 1043 815a  A8N Series Mainboard
 10f1 2865  Tomcat K8E (S2865)
 1458 b003  GA-K8N Ultra-9 Mainboard
 1462 7100  MSI K8N Diamond
 1462 7125  K8N Neo4-F mainboard
 147b 1c1a  KN8-Ultra Mainboard
 1565 5401  NF4 AM2L Mainboard
0055  CK804 Serial ATA Controller
 1028 0225  PowerEdge
T105 Serial ATA
 1043 815a  K8N4/A8N Series Mainboard
 10f1 2865  Tomcat K8E (S2865)
 1458 b003  GA-K8N Ultra-9 Mainboard
 1462 7125  K8N Neo4-F mainboard
 147b 1c1a  KN8-Ultra Mainboard
 1565 5401  NF4 AM2L Mainboard
0056  CK804 Ethernet Controller
0057  CK804 Ethernet Controller
 1043 8141  K8N4/A8N Series Mainboard
 10de cb84  NF4 Lanparty
 10f1 2865  Tomcat K8E (S2865)
 1458 e000  GA-K8N Ultra-9 Mainboard
 1462 7100  MSI K8N Diamond
 1462 7125  K8N Neo4-F mainboard
 147b 1c1a  KN8-Ultra Mainboard
 1565 2501  NF4 AM2L Mainboard
0058  CK804 AC'97 Modem
0059  CK804 AC'97 Audio Controller
 1043 812a  K8N4/A8N Series Mainboard
 10f1 2865  Tomcat K8E (S2865)
 1462 7585  K8N Neo4-F mainboard
 147b 1c1a  KN8-Ultra Mainboard
 1565 8211  NF4 AM2L Mainboard
005a  CK804 USB Controller
 1028 0225  PowerEdge T105 onboard USB
 1043 815a  K8N4/A8N Series Mainboard
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10f1 2865 Tomcat K8E (S2865)
1458 5004 GA-K8N Ultra-9 Mainboard
1462 7100 MSI K8N Diamond
1462 7125
K8N Neo4-F mainboard
147b 1c1a KN8-Ultra Mainboard
1565 3402 NF4 AM2L Mainboard
005b CK804 USB Controller
1028 0225 PowerEdge T105 onboard USB
1043 815a K8N4/A8N Series Mainboard
10f1 2865 Tomcat K8E (S2865)
1458 5004 GA-K8N Ultra-9 Mainboard
1462 7100 MSI K8N Diamond
1462 7125 K8N Neo4-F mainboard
147b 1c1a KN8-Ultra Mainboard
1565 3402 NF4 AM2L Mainboard
005c CK804 PCI Bridge
005d CK804 PCIE Bridge
005e CK804 Memory Controller
1028 0225 PowerEdge T105 Memory Controller
1043 815a A8N Series Mainboard
10de 005e ECS Elitegroup NFORCE3-A939 motherboard.
10f1 2865 Tomcat K8E (S2865)
10f1 2891 Thunder K8SRE Mainboard
1458 5000 GA-K8N Ultra-9 Mainboard
1462 7100 K8N Diamond Mainboard
1462 7125 K8N Neo4-F Mainboard
147b 1c1a KN8-Ultra Mainboard
1565 3402 NF4 AM2L Mainboard
005f CK804 Memory Controller
0060 nForce2 ISA Bridge
1043 80ad A7N8X Mainboard
147b 1c02 NF7-S/NF7 (nVidia-nForce2) 2.X
a0a0 03ba UK79G-1394
motherboard
0064 nForce2 SMBus (MCP)
147b 1c02 NF7-S/NF7 (nVidia-nForce2) 2.X
a0a0 03bb UK79G-1394 motherboard
0065 nForce2 IDE
10de 0c11 nForce 2 EIDE Controller
a0a0 03b2 UK79G-1394 motherboard
0066 nForce2 Ethernet Controller
1043 80a7 A7N8X Mainboard onboard nForce2 Ethernet
10de 0c11 nForce MCP-T Networking Adapter
a0a0 03b3 UK79G-1394 motherboard
0067 nForce2 USB Controller
1043 0c11 A7N8X Mainboard
a0a0 03b4 UK79G-1394 motherboard

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0068  nForce2 USB Controller
 1043 0c11  A7N8X Mainboard
 a0a0 03b4  UK79G-1394 motherboard
006a  nForce2 AC97 Audio Controler (MCP)
 1043 8095  nForce2 AC97 Audio Controller (MCP)
 a0a0 0304  UK79G-1394 motherboard
006b  nForce Audio Processing Unit
 10de 006b  nForce2 MCP Audio Processing Unit
 a0a0 0304  UK79G-1394 motherboard
006c  nForce2 External PCI Bridge
006d  nForce2 PCI Bridge
006e  nForce2 FireWire (IEEE 1394) Controller
 a0a0 0306  UK79G-1394 motherboard
0080  MCP2A ISA bridge
 147b 1c09
 NV7 Motherboard
0084  MCP2A SMBus
 147b 1c09  NV7 Motherboard
0085  MCP2A IDE
 147b 1c09  NV7 Motherboard
0086  MCP2A Ethernet Controller
0087  MCP2A USB Controller
 147b 1c09  NV7 Motherboard
0088  MCP2A USB Controller
 147b 1c09  NV7 Motherboard
008a  MCP2S AC'97 Audio Controller
 147b 1c09  NV7 Motherboard
008b  MCP2A PCI Bridge
008c  MCP2A Ethernet Controller
008e  nForce2 Serial ATA Controller
0090  G70 [GeForce 7800 GTX]
0091  G70 [GeForce 7800 GTX]
0092  G70 [GeForce 7800 GT]
0093  G70 [GeForce 7800 GS]
0095  G70 [GeForce 7800 SLI]
0097  G70 [GeForce GTS 250]
0098  G70M [GeForce Go 7800]
0099  G70M [GeForce Go 7800 GTX]
009d  G70GL [Quadro FX 4500]
00a0  NV0A [Aladdin TNT2 IGP]
 14af 5810  Maxi Gamer Xentor
00c0  NV41 [GeForce 6800 GS]
00c1  NV41 [GeForce 6800]
00c2  NV41 [GeForce 6800 LE]
00c3  NV41 [GeForce 6800 XT]
00c5  NV41
00c6  NV41
00c7  NV41
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00c8  NV41M [GeForce Go 6800]
00c9  NV41M [GeForce Go 6800 Ultra]
00cc  NV41GLM [Quadro FX Go1400]
00cd
 NV42GL [Quadro FX 3450/4000 SDI]
 10de 029b  Quadro FX 3450
00ce  NV41GL [Quadro FX 1400]
00cf  NV41
00d0  nForce3 LPC Bridge
00d1  nForce3 Host Bridge
00d2  nForce3 AGP Bridge
00d3  CK804 Memory Controller
00d4  nForce3 SMBus
00d5  nForce3 IDE
00d6  nForce3 Ethernet
00d7  nForce3 USB 1.1
00d8  nForce3 USB 2.0
00d9  nForce3 Audio
00da  nForce3 Audio
00dd  nForce3 PCI Bridge
00df  CK8S Ethernet Controller
 1043 80a7  K8N-E
 105b 0c43  Winfast NF3250K8AA
 147b 1c0b  NF8 Mainboard
00e0  nForce3 250Gb LPC Bridge
 1043 813f  K8N-E
 10de 0c11  Winfast NF3250K8AA
 1462 7030  K8N Neo-FSR v2.0
 147b 1c0b  NF8 Mainboard
 1849 00e0  Motherboard (one of many)
00e1  nForce3 250Gb Host Bridge
 1043 813f  K8N-E
 1462 7030  K8N Neo-FSR v2.0
 147b 1c0b  NF8 Mainboard
 1849 00e1  Motherboard (one of many)
00e2  nForce3 250Gb AGP Host to PCI Bridge
00e3  nForce3 Serial ATA Controller
 1043 813f  K8N-E
 105b 0c43  Winfast NF3250K8AA
 147b 1c0b  NF8 Mainboard
 1849
00e3  Motherboard (one of many)
00e4  nForce 250Gb PCI System Management
 1043 813f  K8N-E
 105b 0c43  Winfast NF3250K8AA
 1462 7030  K8N Neo-FSR v2.0
 147b 1c0b  NF8 Mainboard
 1849 00e4  Motherboard (one of many)
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00e5  CK8S Parallel ATA Controller (v2.5)
 1043 813f  K8N-E
 105b 0c43  Winfast NF3250K8AA
 1462 7030  K8N Neo-FSR v2.0
 147b 1c0b  NF8 Mainboard
 1849 00e5  Motherboard (one of many)
 f849 00e5  Motherboard (one of many)
00e6  CK8S Ethernet Controller
00e7  CK8S USB Controller
 1043 813f  K8N-E
 105b 0c43  Winfast NF3250K8AA
 1462 7030  K8N Neo-FSR v2.0
 147b 1c0b  NF8 Mainboard
 1849 00e7  Motherboard (one of many)
00e8  nForce3 EHCI USB 2.0 Controller
 1043 813f  K8N-E
 105b 0c43  Winfast NF3250K8AA
 1462 7030  K8N Neo-FSR v2.0
 147b 1c0b  NF8 Mainboard
 1849 00e8  Motherboard (one of many)
00ea  nForce3 250Gb AC'97 Audio Controller
 1043 819d  K8N-E
 105b 0c43  Winfast NF3250K8AA
 1462 b010  K8N Neo-FSR v2.0
 147b 1c0b  NF8 Mainboard
00ed
 nForce3 250Gb PCI-to-PCI Bridge
00ee  nForce3 Serial ATA Controller 2
00f1  NV43 [GeForce 6600 GT]
 1043 81a6  N6600GT TD 128M AGP
 1043 81c6  N6600GT TD 128M AGP
 1458 3150  GV-N66T128VP
 1554 1191  PixelView PV-N43UA (128KD)
 1682 2119  GeForce 6600 GT AGP
00f2  NV43 [GeForce 6600]
 1554 1194  PixelView PV-N43AT (256KD)
 1682 211c  GeForce 6600 256MB DDR DUAL DVI TV
00f3  NV43 [GeForce 6200]
00f4  NV43 [GeForce 6600 LE]
00f5  G71 [GeForce 7800 GS]
00f6  NV43 [GeForce 6800 GS/XT]
 1682 217e  XFX GeForce 6800 XTreme 256MB DDR3 AGP
00f8  NV45GL [Quadro FX 3400/4400]
00f9  NV40 [GeForce 6800 GT/GTO/Ultra]
 10de 00f9  NV40 [GeForce 6800 GT]
 1682 2120  GEFORCE 6800 GT PCI-E
00fa  NV39 [GeForce PCX 5750]
00fb  NV35 [GeForce PCX 5900]
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00fc NV37GL [Quadro FX 330/GeForce PCX 5300]
00fd NV37GL [Quadro PCI-E Series]
00fe NV38GL [Quadro FX 1300]
00ff NV19 [GeForce PCX 4300]
0100 NV10 [GeForce 256 SDR]
 1043 0200 AGP-V6600 SGRAM
 1043 0201 AGP-V6600 SDRAM
 1043
4008 AGP-V6600 SGRAM
 1043 4009 AGP-V6600 SDRAM
 1048 0c41 Erazor X
 1048 0c43 ERAZOR X PCI
 1048 0c48 Synergy Force
 1102 102d CT6941 GeForce 256
 14af 5022 3D Prophet SE
0101 NV10 [GeForce 256 DDR]
 1043 0202 AGP-V6800 DDR
 1043 400a AGP-V6800 DDR SGRAM
 1043 400b AGP-V6800 DDR SDRAM
 1048 0c42 Erazor X
 107d 2822 WinFast GeForce 256
 1102 102e CT6970/CT6971
 14af 5021 3D Prophet DDR-DVI
0103 NV10GL [Quadro]
 1048 0c40 GLoria II-64
 1048 0c44 GLoria II
 1048 0c45 GLoria II
 1048 0c4a GLoria II-64 Pro
 1048 0c4b GLoria II-64 Pro DVII
 10a9 9002 VPro VR3
0110 NV11 [GeForce2 MX/MX 400]
 1043 4015 AGP-V7100 Pro
 1043 4021 V7100 Deluxe Combo
 1043 4031 V7100 Pro with TV output
 1048 0c60 Gladiac MX
 1048 0c61 Gladiac 511PCI
 1048 0c63 Gladiac 511TV-OUT 32MB
 1048 0c64 Gladiac 511TV-OUT 64MB
 1048 0c65 Gladiac 511TWIN
 1048 0c66 Gladiac 311
 10b0 0001 GeForce2 MX Jumbo TV
 10de 0091 Dell OEM GeForce 2 MX 400
 10de
00a1 Apple OEM GeForce2 MX
 1462 8523 MS-8852
 1462 8817 MSI GeForce2 MX400 Pro32S [MS-8817]
 14af 7102 3D Prophet II MX
 14af 7103 3D Prophet II MX Dual-Display

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 1545 0023  Xtasy Rev. B2
 1554 1081  MVGA-NVG11AM(400)
0111  NV11 [GeForce2 MX200]
0112  NV11M [GeForce2 Go]
0113  NV11GL [Quadro2 MXR/EX/Go]
 1028 00e5  Quadro2 Go
0140  NV43 [GeForce 6600 GT]
 1458 3125  GV-NX66T128D
 1458 3126  GV-NX66T256DE
 1462 8939  MS-8983
0141  NV43 [GeForce 6600]
 1043 81b0  EN6600 Silencer
 107d 593a  LR2A22 128MB TV OUT
 107d 597b  WINFAST PX6600
 1458 3124  GV-NX66128DP Turbo Force Edition
0142  NV43 [GeForce 6600 LE]
0143  NV43 [GeForce 6600 VE]
0144  NV43M [GeForce Go 6600]
0145  NV43 [GeForce 6610 XL]
0146  NV43M [GeForce Go6200 TE / 6600 TE]
0147  NV43 [GeForce 6700 XL]
0148  NV43M [GeForce Go 6600]
0149  NV43M [GeForce Go 6600 GT]
014a  NV43 [Quadro NVS 440]
014b  NV43
014d  NV43GL [Quadro FX 550]
014e  NV43GL [Quadro FX 540]
014f  NV43 [GeForce 6200]
0150
 NV15 [GeForce2 GTS/Pro]
 1043 4016  V7700 AGP Video Card
 1043 402a  AGP-V7700
 1048 0c50  Gladiac
 1048 0c52  Gladiac-64
 107d 2840  WinFast GeForce2 GTS with TV output
 107d 2842  WinFast GeForce 2 Pro
 10de 002e  GeForce2 GTS
 1462 815a  MS-8815
 1462 8831  Creative GeForce2 Pro
0151  NV15 [GeForce2 Ti]
 1043 405f  V7700Ti
 1462 5506  Creative 3D Blaster GeForce2 Titanium
 1462 8364  MS-8836
0152  NV15 [GeForce2 Ultra]
 1048 0c56  GLADIAC Ultra
0153  NV15GL [Quadro2 Pro]
0160  NV44 [GeForce 6500]
0161  NV44 [GeForce 6200 TurboCache]
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0162  NV44 [GeForce 6200 SE TurboCache]
0163  NV44 [GeForce 6200 LE]
0164  NV44M [GeForce Go 6200]
0165  NV44 [Quadro NVS 285]
0166  NV44M [GeForce Go 6400]
0167  NV44M [GeForce Go 6200]
0168  NV44M [GeForce Go 6400]
0169  NV44 [GeForce 6250]
016a  NV44 [GeForce 7100 GS]
016d  NV44
016e  NV44
016f  NV44
0170  NV17 [GeForce4 MX 460]
 1462 8630  MS-8863
0171  NV17 [GeForce4 MX 440]
 10b0 0002  Gainward Pro/600 TV
 10de
0008  Apple OEM GeForce4 MX 440
 1462 8661  G4MX440-VTP
 1462 8730  MX440SES-T (MS-8873)
 1462 8743  MS-8874
 1462 8852  GeForce4 MX440 PCI
 147b 8f00  Abit Siluro GeForce4MX440
0172  NV17 [GeForce4 MX 420]
 1462 8730  MS-8873
 1462 8784  MS-8878
0173  NV17 [GeForce4 MX 440-SE]
0174  NV17M [GeForce4 440 Go]
0175  NV17M [GeForce4 420 Go]
0176  NV17M [GeForce4 420 Go 32M]
 103c 08b0  tc1100 tablet
 144d c005  X10 Laptop
 4c53 1090  Cx9 / Vx9 mainboard
0177  NV17M [GeForce4 460 Go]
0178  NV17GL [Quadro4 550 XGL]
0179  NV17M [GeForce4 440 Go 64M]
 10de 0179  GeForce4 MX (Mac)
017a  NV17GL [Quadro NVS]
017b  NV17GL [Quadro4 550 XGL]
017c  NV17GL [Quadro4 500 GoGL]
017f  NV17
0181  NV18 [GeForce4 MX 440 AGP 8x]
 1043 8063  GeForce4 MX 440 AGP 8X
 1043 806f  V9180 Magic
 1462 8880  MS-StarForce GeForce4 MX 440 with AGP8X
 1462 8900  MS-8890 GeForce 4 MX440 AGP8X
 1462 9350  MSI GeForce4 MX T8X with AGP8X
 147b 8f0d  Siluro GF4 MX-8X
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1554 1111 PixelView MVGA-NVG18A
0182
NV18 [GeForce4 MX 440SE AGP 8x]
0183 NV18 [GeForce4 MX 420 AGP 8x]
0184 NV18 [GeForce4 MX]
0185 NV18 [GeForce4 MX 4000]
0186 NV18M [GeForce4 448 Go]
0187 NV18M [GeForce4 488 Go]
0188 NV18GL [Quadro4 580 XGL]
0189 NV18 [GeForce4 MX with AGP8X (Mac)]
018a NV18GL [Quadro NVS 280 SD]
018b NV18GL [Quadro4 380 XGL]
018c NV18GL [Quadro NVS 50 PCI]
018d NV18M [GeForce4 448 Go]
0190 G80 [GeForce 8800 GTS / 8800 GTX]
0191 G80 [GeForce 8800 GTX]
0192 G80 [GeForce 8800 GTS]
0193 G80 [GeForce 8800 GTS]
107d 20bd WinFast PX 8800 GTS TDH
0194 G80 [GeForce 8800 Ultra]
0197 G80GL [Tesla C870]
019d G80GL [Quadro FX 5600]
019e G80GL [Quadro FX 4600]
01a0 nForce 220/420 NV1A [GeForce2 MX]
01a4 nForce CPU bridge
01ab nForce 420 Memory Controller (DDR)
01ac nForce 220/420 Memory Controller
01ad nForce 220/420 Memory Controller
01b0 nForce Audio Processing Unit
01b1 nForce AC'97 Audio Controller
01b2 nForce ISA Bridge
01b4 nForce PCI
System Management
01b7 nForce AGP to PCI Bridge
01b8 nForce PCI-to-PCI bridge
01bc nForce IDE
01c1 nForce AC'97 Modem Controller
01c2 nForce USB Controller
01c3 nForce Ethernet Controller
01d0 G72 [GeForce 7350 LE]
01d1 G72 [GeForce 7300 LE]
107d 5efa WinFast PX7300LE-TD128
107d 5efb WinFast PX7300LE-TD256
1462 0345 7300LE PCI Express Graphics Adapter
01d2 G72 [GeForce 7550 LE]
01d3 G72 [GeForce 7200 GS / 7300 SE]
1043 8203 EN7300SE
1043 8250 EN7200GS

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01d5  G72
01d6  G72M [GeForce Go 7200]
01d7  G72M [Quadro NVS 110M/GeForce Go 7300]
01d8  G72M [GeForce Go 7400]
 1028 01d7  XPS M1210
01d9  G72M [GeForce Go 7450]
01da  G72M [Quadro NVS 110M]
01db  G72M [Quadro NVS 120M]
01dc  G72GLM [Quadro FX 350M]
01dd  G72 [GeForce 7500 LE]
01de  G72GL [Quadro FX 350]
 10de 01dc  Quadro  FX Go350M
01df  G72 [GeForce 7300 GS]
01e0  nForce2 IGP2
 147b 1c09  NV7 Motherboard
01e8  nForce2 AGP
01ea  nForce2 Memory Controller 0
 a0a0 03b9  UK79G-1394 motherboard
01eb
 nForce2 Memory Controller 1
 a0a0 03b9  UK79G-1394 motherboard
01ec  nForce2 Memory Controller 2
 a0a0 03b9  UK79G-1394 motherboard
01ed  nForce2 Memory Controller 3
 a0a0 03b9  UK79G-1394 motherboard
01ee  nForce2 Memory Controller 4
 10de 01ee  MSI Delta-L nForce2 memory controller
 a0a0 03b9  UK79G-1394 motherboard
01ef  nForce2 Memory Controller 5
 a0a0 03b9  UK79G-1394 motherboard
01f0  NV1F C17 [GeForce4 MX IGP]
 a0a0 03b5  UK79G-1394 motherboard
0200  NV20 [GeForce3]
 1043 402f  AGP-V8200 DDR
 1048 0c70  GLADIAC 920
0201  NV20 [GeForce3 Ti 200]
0202  NV20 [GeForce3 Ti 500]
 1043 405b  V8200 T5
 1545 002f  Xtasy 6964
0203  NV20GL [Quadro DCC]
0211  NV48 [GeForce 6800]
0212  NV48 [GeForce 6800 LE]
0215  NV48 [GeForce 6800 GT]
0218  NV48 [GeForce 6800 XT]
0221  NV44A [GeForce 6200]
 1043 81e1  N6200/TD/256M/A
 3842 a341  256A8N341DX
0222  NV44 [GeForce 6200 A-LE]
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0224  NV44
0240  C51PV [GeForce 6150]
 1043 81cd  A8N-VM CSM
 1462 7207
 K8NGM2 series
0241  C51 [GeForce 6150 LE]
0242  C51G [GeForce 6100]
 105b 0cad  Winfast 6100K8MB
0243  C51 PCI Express Bridge
0244  C51 [GeForce Go 6150]
 103c 30b5  Presario V3242AU
 103c 30b7  Presario V6133CL
 10de 0244  GeForce Go 6150
0245  C51 [Quadro NVS 210S/GeForce 6150LE]
0246  C51 PCI Express Bridge
0247  C51 [GeForce Go 6100]
 1043 1382  MCP51 PCI-X GeForce Go 6100
0248  C51 PCI Express Bridge
0249  C51 PCI Express Bridge
024a  C51 PCI Express Bridge
024b  C51 PCI Express Bridge
024c  C51 PCI Express Bridge
024d  C51 PCI Express Bridge
024e  C51 PCI Express Bridge
024f  C51 PCI Express Bridge
0250  NV25 [GeForce4 Ti 4600]
0251  NV25 [GeForce4 Ti 4400]
 1043 8023  v8440 GeForce 4 Ti4400
 10de 0251  PNY GeForce4 Ti 4400
 1462 8710  PNY GeForce4 Ti 4400
0252  NV25 [GeForce4 Ti]
0253  NV25 [GeForce4 Ti 4200]
 107d 2896  WinFast A250 LE TD (Dual VGA/TV-out/DVI)
 147b 8f09  Siluro (Dual VGA/TV-out/DVI)
0258  NV25GL [Quadro4 900 XGL]
0259  NV25GL [Quadro4
750 XGL]
025b  NV25GL [Quadro4 700 XGL]
0260  MCP51 LPC Bridge
 103c 2a34  Pavilion a1677c
 103c 30b7  Presario V6133CL
 1043 81bc  A8N-VM CSM Mainboard
 1458 5001  GA-M55plus-S3G
 1462 7207  K8NGM2 series
0261  MCP51 LPC Bridge
 105b 0cad  Winfast 6100K8MB
0262  MCP51 LPC Bridge
0263  MCP51 LPC Bridge
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0264  MCP51 SMBus
 103c 2a34  Pavilion a1677c
 103c 30b7  Presario V6133CL
 1043 81bc  A8N-VM CSM Mainboard
 105b 0cad  Winfast 6100K8MB
 1462 7207  K8NGM2 series
0265  MCP51 IDE
 103c 2a34  Pavilion a1677c
 103c 30b7  Presario V6133CL
 1043 81bc  A8N-VM CSM Mainboard
 1462 7207  K8NGM2 series
# Foxconn has used a wrong vendor ID for this one
 f05b 0cad  Winfast 6100K8MB
0266  MCP51 Serial ATA Controller
 103c 2a34  Pavilion a1677c
 103c 30b7  Presario V6133CL
 1043 81bc  A8N-VM CSM Mainboard
 1462 7207  K8NGM2 series
0267  MCP51 Serial ATA Controller
 103c 2a34  Pavilion a1677c
 1043 81bc  A8N-VM CSM Mainboard
 1462 7207  K8NGM2 series
0268  MCP51
Ethernet Controller
0269  MCP51 Ethernet Controller
 103c 2a34  Pavilion a1677c
 103c 30b7  Presario V6133CL
 1043 8141  A8N-VM CSM Mainboard
 1462 7207  K8NGM2 series
026a  MCP51 MCI
026b  MCP51 AC97 Audio Controller
 105b 0cad  Winfast 6100K8MB
026c  MCP51 High Definition Audio
 103c 2a34  Pavilion a1677c
 103c 30b5  Presario V3242AU
 103c 30b7  Presario V6133CL
 10de cb84  ASUSTeK Computer Inc. A8N-VM CSM Mainboard
 1462 7207  K8NGM2 series
026d  MCP51 USB Controller
 103c 2a34  Pavilion a1677c
 103c 30b7  Presario V6133CL
 1043 81bc  A8N-VM CSM Mainboard
 105b 0cad  Winfast 6100K8MB
 1462 7207  K8NGM2 series
026e  MCP51 USB Controller
 103c 2a34  Pavilion a1677c
 103c 30b7  Presario V6133CL
 1043 81bc  A8N-VM CSM Mainboard
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 105b 0cad  Winfast 6100K8MB
 1462 7207  K8NGM2 series
026f  MCP51 PCI Bridge
 103c 30b7  Presario V6133CL
0270  MCP51 Host Bridge
 103c 2a34  Pavilion a1677c
 103c 30b7  Presario V6133CL
 1043 81bc  A8N-VM CSM Mainboard
 105b 0cad
 Winfast 6100K8MB
 1458 5001  GA-M55plus-S3G
 1462 7207  K8NGM2 series
0271  MCP51 PMU
 103c 30b5  Presario V3242AU
 103c 30b7  Presario V6133CL
0272  MCP51 Memory Controller 0
 103c 2a34  Pavilion a1677c
 105b 0cad  Winfast 6100K8MB
027e  C51 Memory Controller 2
 103c 2a34  Pavilion a1677c
 103c 30b7  Presario V6133CL
 1043 81cd  A8N-VM CSM Mainboard
 1458 5000  GA-M55plus-S3G
 1462 7207  K8NGM2 series
027f  C51 Memory Controller 3
 103c 2a34  Pavilion a1677c
 103c 30b7  Presario V6133CL
 1043 81cd  A8N-VM CSM Mainboard
 1458 5000  GA-M55plus-S3G
 1462 7207  K8NGM2 series
0280  NV28 [GeForce4 Ti 4800]
0281  NV28 [GeForce4 Ti 4200 AGP 8x]
0282  NV28 [GeForce4 Ti 4800 SE]
0286  NV28M [GeForce4 Ti 4200 Go AGP 8x]
0288  NV28GL [Quadro4 980 XGL]
0289  NV28GL [Quadro4 780 XGL]
028c  NV28GLM [Quadro4 Go700]
0290  G71 [GeForce 7900 GTX]
0291  G71 [GeForce 7900 GT/GTO]
 10de 042b  NX7900GTO-T2D512E [7900 GTO]
0292  G71 [GeForce 7900 GS]
0293  G71 [GeForce 7900
GX2]
0294  G71 [GeForce 7950 GX2]
0295  G71 [GeForce 7950 GT]
 1043 8225  GeForce 7950 GT
 107d 2a68  WinFast PX7950GT TDH
 1462 0663  NX7950GT-VT2D512EZ-HD
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0297  G71M [GeForce Go 7950 GTX]
0298  G71M [GeForce Go 7900 GS]
0299  G71M [GeForce Go 7900 GTX]
029a  G71GLM [Quadro FX 2500M]
029b  G71GLM [Quadro FX 1500M]
029c  G71GL [Quadro FX 5500]
029d  G71GL [Quadro FX 3500]
 1028 019b  G71GLM [Quadro FX 3500M]
029e  G71GL [Quadro FX 1500]
029f  G71GL [Quadro FX 4500 X2]
# Xbox Graphics Processing Unit (Integrated). GeForce3 derivative (NV20 < NV2A < NV25).
02a0  NV2A [XGPU]
02a5  MCPX CPU Bridge
02a6  MCPX Memory Controller
02e0  G73 [GeForce 7600 GT]
 02e0 2249  GF 7600GT 560M 256MB DDR3 DUAL DVI TV
02e1  G73 [GeForce 7600 GS]
 1682 222b  PV-T73K-UAL3 (256MB)
 1682 2247  GF 7600GS 512MB DDR2
02e2  G73 [GeForce 7300 GT]
02e3  G71 [GeForce 7900 GS]
02e4  G71 [GeForce 7950 GT]
 1682 2271  PV-T71A-YDF7 (512MB)
02f0  C51 Host Bridge
 103c 2a34  Pavilion a1677c
 103c
30b7  Presario V6133CL
 1043 81cd  A8N-VM CSM Mainboard
 1462 7207  K8NGM2 series
02f1  C51 Host Bridge
 1458 5000  GA-M55plus-S3G
02f2  C51 Host Bridge
02f3  C51 Host Bridge
02f4  C51 Host Bridge
02f5  C51 Host Bridge
02f6  C51 Host Bridge
02f7  C51 Host Bridge
02f8  C51 Memory Controller 5
 103c 2a34  Pavilion a1677c
 103c 30b7  Presario V6133CL
 1043 81cd  A8N-VM CSM Mainboard
 1458 5000  GA-M55plus-S3G
 1462 7207  K8NGM2 series
02f9  C51 Memory Controller 4
 103c 2a34  Pavilion a1677c
 103c 30b7  Presario V6133CL
 1043 81cd  A8N-VM CSM Mainboard
 1458 5000  GA-M55plus-S3G
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 1462 7207  K8NGM2 series
02fa  C51 Memory Controller 0
 103c 2a34  Pavilion a1677c
 103c 30b7  Presario V6133CL
 1043 81cd  A8N-VM CSM Mainboard
 1458 5000  GA-M55plus-S3G
 1462 7207  K8NGM2 series
02fb  C51 PCI Express Bridge
02fc  C51 PCI Express Bridge
 103c 30b7  Presario V6133CL
02fd  C51 PCI Express Bridge
 103c 30b7  Presario V6133CL
02fe  C51 Memory Controller 1
 103c
2a34  Pavilion a1677c
 103c 30b7  Presario V6133CL
 1043 81cd  A8N-VM CSM Mainboard
 1458 5000  GA-M55plus-S3G
 1462 7207  K8NGM2 series
02ff  C51 Host Bridge
 103c 2a34  Pavilion a1677c
 103c 30b7  Presario V6133CL
 1043 81cd  A8N-VM CSM Mainboard
 1458 5000  GA-M55plus-S3G
 1462 7207  K8NGM2 series
0300  NV30 [GeForce FX]
0301  NV30 [GeForce FX 5800 Ultra]
0302  NV30 [GeForce FX 5800]
0308  NV30GL [Quadro FX 2000]
0309  NV30GL [Quadro FX 1000]
0311  NV31 [GeForce FX 5600 Ultra]
0312  NV31 [GeForce FX 5600]
0314  NV31 [GeForce FX 5600XT]
 1043 814a  V9560XT/TD
0316  NV31M
0318  NV31GL
031a  NV31M [GeForce FX Go5600]
031b  NV31M [GeForce FX Go5650]
031c  NV31GLM [Quadro FX Go700]
0320  NV34 [GeForce FX 5200]
0321  NV34 [GeForce FX 5200 Ultra]
0322  NV34 [GeForce FX 5200]
 1043 02fb  V9250 Magic
 1043 8180  V9520-X/TD/128M
 107d 2967  WinFast A340T 128MB
 1462 9110  MS-8911 (FX5200-TD128)
 1462 9171  MS-8917 (FX5200-T128)
 1462 9360  MS-8936 (FX5200-T128)
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 1682
1351  GeForce FX 5200
0323  NV34 [GeForce FX 5200LE]
0324  NV34M [GeForce FX Go5200 64M]
 1028 0196  Inspiron 5160
 103c 006a  Pavilion ZD7000 laptop
 1071 8160  MIM2000
0325  NV34M [GeForce FX Go5250]
0326  NV34 [GeForce FX 5500]
 1458 310d  GeForce FX 5500 128 MB
 1682 2034  GeForce 5500 256 MB
0327  NV34 [GeForce FX 5100]
0328  NV34M [GeForce FX Go5200 32M/64M]
0329  NV34M [GeForce FX Go5200]
 10de 0010  Powerbook G4
032a  NV34GL [Quadro NVS 280 PCI]
032b  NV34GL [Quadro FX 500/600 PCI]
032c  NV34M [GeForce FX Go5300 / Go5350]
032d  NV34M [GeForce FX Go5100]
032e  NV34
032f  NV34 [GeForce FX 5200]
0330  NV35 [GeForce FX 5900 Ultra]
 1043 8137  V9950 Ultra / 256 MB
0331  NV35 [GeForce FX 5900]
 1043 8145  V9950GE
0332  NV35 [GeForce FX 5900XT]
0333  NV38 [GeForce FX 5950 Ultra]
0334  NV35 [GeForce FX 5900ZT]
 1462 9373  FX5900ZT-VTD128 (MS-8937)
0338  NV35GL [Quadro FX 3000]
033f  NV35GL [Quadro FX 700]
0341  NV36 [GeForce FX 5700 Ultra]
 1462
9380  MS-8938 (FX5700U-TD128)
0342  NV36 [GeForce FX 5700]
0343  NV36 [GeForce FX 5700LE]
0344  NV36 [GeForce FX 5700VE]
0347  NV36M [GeForce FX Go5700]
 103c 006a  NX9500
0348  NV36M [GeForce FX Go5700]
034c  NV36 [Quadro FX Go1000]
034d  NV36
034e  NV36GL [Quadro FX 1100]
0360  MCP55 LPC Bridge
0361  MCP55 LPC Bridge
 1028 0221  PowerEdge R805 MCP55 LPC Bridge
0362  MCP55 LPC Bridge
 147b 1c24  KN9 series mainboard
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0363  MCP55 LPC Bridge
0364  MCP55 LPC Bridge
 1028 0221  PowerEdge R805 MCP55 LPC Bridge
0365  MCP55 LPC Bridge
0366  MCP55 LPC Bridge
0367  MCP55 LPC Bridge
0368  MCP55 SMBus Controller
 1028 020c  PowerEdge M605 MCP55 SMBus
 1028 0221  PowerEdge R805 MCP55 SMBus
 147b 1c24  KN9 series mainboard
0369  MCP55 Memory Controller
 147b 1c24  KN9 series mainboard
036a  MCP55 Memory Controller
036b  MCP55 SMU
036c  MCP55 USB Controller
 1028 020c  PowerEdge M605 MCP55 USB Controller
 1028 0221  PowerEdge R805 MCP55 USB Controller
 147b 1c24
 KN9 series mainboard
036d  MCP55 USB Controller
 1028 020c  PowerEdge M605 MCP55 USB Controller
 1028 0221  PowerEdge R805 MCP55 USB Controller
 147b 1c24  KN9 series mainboard
036e  MCP55 IDE
 147b 1c24  KN9 series mainboard
0370  MCP55 PCI bridge
0371  MCP55 High Definition Audio
 147b 1c24  KN9 series mainboard
0372  MCP55 Ethernet
0373  MCP55 Ethernet
 147b 1c24  KN9 series mainboard
0374  MCP55 PCI Express bridge
0375  MCP55 PCI Express bridge
0376  MCP55 PCI Express bridge
0377  MCP55 PCI Express bridge
0378  MCP55 PCI Express bridge
037a  MCP55 Memory Controller
037e  MCP55 SATA Controller
037f  MCP55 SATA Controller
 1028 0221  PowerEdge R805 MCP55 SATA Controller
 147b 1c24  KN9 series mainboard
038b  G73 [GeForce 7650 GS]
0390  G73 [GeForce 7650 GS]
0391  G73 [GeForce 7600 GT]
 1458 3427  GV-NX76T128D-RH
 1462 0452  NX7600GT-VT2D256E
0392  G73 [GeForce 7600 GS]
 1462 0622  NX7600GS-T2D256EH
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0393  G73 [GeForce 7300 GT]
 10de 0412  NX7300GT-TD256EH
 1462
0412  NX7300GT-TD256EH
0394  G73 [GeForce 7600 LE]
0395  G73 [GeForce 7300 GT]
0396  G73
0397  G73M [GeForce Go 7700]
0398  G73M [GeForce Go 7600]
 1025 006c  Aspire 9814WKMi
0399  G73M [GeForce Go 7600 GT]
039a  G73M [Quadro NVS 300M]
039b  G73M [GeForce Go 7900 SE]
039c  G73GLM [Quadro FX 550M]
 10de 039c  Quadro FX 560M
039d  G73
039e  G73GL [Quadro FX 560]
039f  G73
03a0  C55 Host Bridge
03a1  C55 Host Bridge
03a2  C55 Host Bridge
03a3  C55 Host Bridge
03a4  C55 Host Bridge
03a5  C55 Host Bridge
03a6  C55 Host Bridge
03a7  C55 Host Bridge
03a8  C55 Memory Controller
03a9  C55 Memory Controller
03aa  C55 Memory Controller
03ab  C55 Memory Controller
03ac  C55 Memory Controller
03ad  C55 Memory Controller
03ae  C55 Memory Controller
03af  C55 Memory Controller
03b0  C55 Memory Controller
03b1  C55 Memory Controller
03b2  C55 Memory Controller
03b3  C55 Memory Controller
03b4  C55 Memory Controller
03b5  C55 Memory Controller
03b6  C55 Memory
Controller
03b7  C55 PCI Express bridge
03b8  C55 PCI Express bridge
03b9  C55 PCI Express bridge
03ba  C55 Memory Controller
03bb  C55 PCI Express bridge
03bc  C55 Memory Controller
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03d0  C61 [GeForce 6150SE nForce 430]
 1028 020e  Inspiron 531
03d1  C61 [GeForce 6100 nForce 405]
03d2  C61 [GeForce 6100 nForce 400]
03d5  C61 [GeForce 6100 nForce 420]
03d6  C61 [GeForce 7025 / nForce 630a]
03e0  MCP61 LPC Bridge
 1028 020e  Inspiron 531
 1849 03e0  939NF6G-VSTA Board
03e1  MCP61 LPC Bridge
 1043 83a4  M4N68T series motherboard
03e2  MCP61 Host Bridge
 1043 83a4  M4N68T series motherboard
03e3  MCP61 LPC Bridge
03e4  MCP61 High Definition Audio
03e5  MCP61 Ethernet
03e6  MCP61 Ethernet
03e7  MCP61 SATA Controller
03e8  MCP61 PCI Express bridge
 1028 020e  Inspiron 531
 1849 03e8  939NF6G-VSTA Board
03e9  MCP61 PCI Express bridge
 1028 020e  Inspiron 531
 1849 03e9  939NF6G-VSTA Board
03ea  MCP61 Memory Controller
 1028 020e  Inspiron 531
 1849 03ea
 939NF6G-VSTA Board
03eb  MCP61 SMBus
 1028 020e  Inspiron 531
 1043 83a4  M4N68T series motherboard
 1849 03eb  939NF6G-VSTA Board
03ec  MCP61 IDE
 1025 0392  ET1350
 1028 020e  Inspiron 531
 1043 83a4  M4N68T series motherboard
 1849 03ec  939NF6G-VSTA Board
03ee  MCP61 Ethernet
03ef  MCP61 Ethernet
 1025 8000  ET1350
 1028 020e  Inspiron 531
 1043 83a4  M4N68T series motherboard
 1849 03ef  939NF6G-VSTA Board
03f0  MCP61 High Definition Audio
 1028 020e  Inspiron 531
 1043 8415  M4N68T series motherboard
 1849 0888  939NF6G-VSTA Board
03f1  MCP61 USB 1.1 Controller
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 1028 020e  Inspiron 531
 1043 83a4  M4N68T series motherboard
 1849 03f1  939NF6G-VSTA Board
03f2  MCP61 USB 2.0 Controller
 1028 020e  Inspiron 531
 1043 83a4  M4N68T series motherboard
 1849 03f2  939NF6G-VSTA Board
03f3  MCP61 PCI bridge
 1028 020e  Inspiron 531
 1849 03f3  939NF6G-VSTA Board
03f4  MCP61 SMU
03f5  MCP61 Memory Controller
 1028 020e  Inspiron 531
 1043 83a4  M4N68T series
motherboard
 1849 03eb  939NF6G-VSTA Board
03f6  MCP61 SATA Controller
 1028 020e  Inspiron 531
 1043 83a4  M4N68T series motherboard
 1849 03f6  939NF6G-VSTA Board
03f7  MCP61 SATA Controller
0400  G84 [GeForce 8600 GTS]
 1043 8241  EN8600GTS
0401  G84 [GeForce 8600 GT]
0402  G84 [GeForce 8600 GT]
 1458 3455  GV-NX86T512H
 1462 0910  NX8600GT-T2D256EZ
0403  G84 [GeForce 8600 GS]
0404  G84 [GeForce 8400 GS]
 1462 1230  NX8400GS-TD256E
0405  G84M [GeForce 9500M GS]
0406  G84 [GeForce 8300 GS]
0407  G84M [GeForce 8600M GT]
0408  G84M [GeForce 9650M GS]
0409  G84M [GeForce 8700M GT]
040a  G84GL [Quadro FX 370]
040b  G84GLM [Quadro NVS 320M]
040c  G84GLM [Quadro FX 570M]
 17aa 20d9  ThinkPad T61p
040d  G84GLM [Quadro FX 1600M]
040e  G84GL [Quadro FX 570]
040f  G84GL [Quadro FX 1700]
0410  G92 [GeForce GT 330]
0414  G92 [GeForce 9800 GT]
0418  G92 [GeForce GT 330 OEM]
0420  G86 [GeForce 8400 SE]
0421  G86 [GeForce 8500 GT]
 1462 0960  NX8500GT-TD512EH/M2
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0422
G86 [GeForce 8400 GS]
0423 G86 [GeForce 8300 GS]
0424 G86 [GeForce 8400 GS]
0425 G86M [GeForce 8600M GS]
1025 0121 Aspire 5920G
1043 1514 F3SV
0426 G86M [GeForce 8400M GT]
0427 G86M [GeForce 8400M GS]
103c 30cc Pavilion dv6700
103c 30cf Pavilion dv9668eg Laptop
0428 G86M [GeForce 8400M G]
0429 G86M [Quadro NVS 140M]
17aa 20d8 ThinkPad T61
042a G86M [Quadro NVS 130M]
042b G86M [Quadro NVS 135M]
042c G86 [GeForce 9400 GT]
042d G86GLM [Quadro FX 360M]
042e G86M [GeForce 9300M G]
042f G86 [Quadro NVS 290]
0440 MCP65 LPC Bridge
0441 MCP65 LPC Bridge
0442 MCP65 LPC Bridge
103c 30cf Pavilion dv9668eg Laptop
0443 MCP65 LPC Bridge
0444 MCP65 Memory Controller
103c 30cf Pavilion dv9668eg Laptop
0445 MCP65 Memory Controller
0446 MCP65 SMBus
103c 30cf Pavilion dv9668eg Laptop
0447 MCP65 SMU
103c 30cf Pavilion dv9500/9600/9700 series
0448 MCP65 IDE
103c 30cf Pavilion dv9668eg Laptop
0449 MCP65 PCI bridge
10de cb84
HP Pavilion dv9668eg Laptop
044a MCP65 High Definition Audio
103c 30cf Pavilion dv9668eg Laptop
044b MCP65 High Definition Audio
044c MCP65 AHCI Controller
044d MCP65 AHCI Controller
044e MCP65 AHCI Controller
044f MCP65 AHCI Controller
0450 MCP65 Ethernet
103c 30cf Pavilion dv9668eg Laptop
0451 MCP65 Ethernet
0452 MCP65 Ethernet

0453 MCP65 Ethernet
0454 MCP65 USB 1.1 OHCI Controller
 103c 30cf Pavilion dv9668eg Laptop
0455 MCP65 USB 2.0 EHCI Controller
 103c 30cf Pavilion dv9668eg Laptop
0456 MCP65 USB Controller
0457 MCP65 USB Controller
0458 MCP65 PCI Express bridge
 10de 0000 MCP65 PCI Express bridge
0459 MCP65 PCI Express bridge
 10de 0000 MCP65 PCI Express bridge
045a MCP65 PCI Express bridge
 10de 0000 MCP65 PCI Express bridge
045b MCP65 PCI Express bridge
 10de 0000 MCP65 PCI Express bridge
045c MCP65 SATA Controller
045d MCP65 SATA Controller
 103c 30cf Pavilion dv9668eg Laptop
045e MCP65 SATA Controller
045f MCP65
SATA Controller
0531 C67 [GeForce 7150M / nForce 630M]
0533 C67 [GeForce 7000M / nForce 610M]
053a C68 [GeForce 7050 PV / nForce 630a]
053b C68 [GeForce 7050 PV / nForce 630a]
 1043 8308 M2N68-AM Motherboard
053e C68 [GeForce 7025 / nForce 630a]
0541 MCP67 Memory Controller
0542 MCP67 SMBus
 1043 8308 M2N68-AM Motherboard
0543 MCP67 Co-processor
0547 MCP67 Memory Controller
 1043 8308 M2N68-AM Motherboard
 1849 0547 ALiveNF7G-HDready
0548 MCP67 ISA Bridge
 1043 8308 M2N68-AM Motherboard
054c MCP67 Ethernet
 1043 8308 M2N68-AM Motherboard
 1849 054c ALiveNF7G-HDready, MCP67 Gigabit Ethernet
054d MCP67 Ethernet
054e MCP67 Ethernet
054f MCP67 Ethernet
0550 MCP67 AHCI Controller
 1043 8308 M2N68-AM Motherboard
0554 MCP67 AHCI Controller
 1043 8308 M2N68-AM Motherboard
0555 MCP67 SATA Controller
 1043 8308 M2N68-AM Motherboard

055c MCP67 High Definition Audio
 1043 8290 M2N68-AM Motherboard
055d MCP67 High Definition Audio
055e
 MCP67 OHCI USB 1.1 Controller
 1043 8308 M2N68-AM Motherboard
055f MCP67 EHCI USB 2.0 Controller
 1043 8308 M2N68-AM Motherboard
0560 MCP67 IDE Controller
 f043 8308 M2N68-AM Motherboard
0561 MCP67 PCI Bridge
0562 MCP67 PCI Express Bridge
 1849 0562 ALiveNF7G-HDready
0563 MCP67 PCI Express Bridge
0568 MCP78S [GeForce 8200] Memory Controller
 103c 2a9e Pavilion p6310f
 1043 82e8 M3N72-D
 1462 7508 K9N2GM-FIH
 1849 0568 K10N78FullHD-hSLI R3.0 Memory Controller
0569 MCP78S [GeForce 8200] PCI Express Bridge
 103c 2a9e Pavilion p6310f
 1043 82e8 M3N72-D
 1462 7508 K9N2GM-FIH
 1849 0569 K10N78FullHD-hSLI R3.0 PCI Express Bridge
056a MCP73 [nForce 630i] USB 2.0 Controller (EHCI)
 1019 297a MCP73PVT-SM
 147b 1c3e I-N73V motherboard
056c MCP73 IDE Controller
 1019 297a MCP73PVT-SM
 147b 1c3e I-N73V motherboard
 1afa 7150 JW-IN7150-HD
056d MCP73 PCI Express bridge
 1019 297a MCP73PVT-SM
 10de cb73 MCP73 PCI Bridge
056e MCP73 PCI Express
bridge
 1019 297a MCP73PVT-SM
 10de 0000 MCP73 PCIe x16 port
056f MCP73 PCI Express bridge
 1019 297a MCP73PVT-SM
 10de 0000 MCP73 PCIe x1 port
05b1 NF200 PCIe 2.0 switch
05b8 NF200 PCIe 2.0 switch for GTX 295
05be NF200 PCIe 2.0 switch for Quadro Plex S4 / Tesla S870 / Tesla S1070 / Tesla S2050
05e0 GT200b [GeForce GTX 295]
05e1 GT200 [GeForce GTX 280]
05e2 GT200 [GeForce GTX 260]
05e3 GT200b [GeForce GTX 285]

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 1682 2490  GX-285N-ZDF
05e6  GT200b [GeForce GTX 275]
05e7  GT200GL [Tesla C1060 / M1060]
 10de 0595  Tesla T10 Processor
 10de 068f  Tesla T10 Processor
 10de 0697  Tesla M1060
 10de 0714  Tesla M1060
 10de 0743  Tesla M1060
05ea  GT200 [GeForce GTX 260]
05eb  GT200 [GeForce GTX 295]
05ed  GT200GL [Quadro Plex 2200 D2]
05f1  GT200 [GeForce GTX 280]
05f2  GT200 [GeForce GTX 260]
05f8  GT200GL [Quadro Plex 2200 S4]
05f9  GT200GL [Quadro CX]
05fd  GT200GL [Quadro FX 5800]
05fe  GT200GL [Quadro FX 4800]
05ff  GT200GL [Quadro FX 3800]
0600
 G92 [GeForce 8800 GTS 512]
0601  G92 [GeForce 9800 GT]
0602  G92 [GeForce 8800 GT]
0603  G92 [GeForce GT 230 OEM]
0604  G92 [GeForce 9800 GX2]
0605  G92 [GeForce 9800 GT]
0606  G92 [GeForce 8800 GS]
0607  G92 [GeForce GTS 240]
0608  G92M [GeForce 9800M GTX]
0609  G92M [GeForce 8800M GTS]
 106b 00a7  GeForce 8800 GS
060a  G92M [GeForce GTX 280M]
060b  G92M [GeForce 9800M GT]
060c  G92M [GeForce 8800M GTX]
060d  G92 [GeForce 8800 GS]
060f  G92M [GeForce GTX 285M]
0610  G92 [GeForce 9600 GSO]
 1682 2385  GeForce 9600 GSO 768mb
0611  G92 [GeForce 8800 GT]
 107d 2ab0  Winfast PX8800 GT PCI-E
 1462 1170  NX8800GT series model V117 2xDVI+TV
 19da 1040  ZT-88TES2P-FSP
0612  G92 [GeForce 9800 GTX / 9800 GTX+]
0613  G92 [GeForce 9800 GTX+]
0614  G92 [GeForce 9800 GT]
 107d 2ab3  WinFast PX9800 GT (S-Fanpipe)
0615  G92 [GeForce GTS 250]
 3842 1150  GeForce GTS 250 P/N 512-P3-1150-TR
# Overclocked
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	3842 1151  GeForce GTS 250 P/N 512-P3-1151-TR
	3842 1155  GeForce
	GTS 250 P/N 01G-P3-1155-TR
	# Overclocked
	3842 1156  GeForce GTS 250 P/N 01G-P3-1156-TR
	0617  G92M [GeForce 9800M GTX]
	0618  G92M [GeForce GTX 260M]
	0619  G92GL [Quadro FX 4700 X2]
	061a  G92GL [Quadro FX 3700]
	061b  G92GL [Quadro VX 200]
	061c  G92GLM [Quadro FX 3600M]
	061d  G92GLM [Quadro FX 2800M]
	061e  G92GLM [Quadro FX 3700M]
	061f  G92GLM [Quadro FX 3800M]
	0620  G94 [GeForce 9800 GT]
	0621  G94 [GeForce GT 230]
	0622  G94 [GeForce 9600 GT]
	107d 2ac1  WinFast PX9600GT 1024MB
	1458 3481  GV-NX96T512HP
	0623  G94 [GeForce 9600 GS]
	0624  G94 [GeForce 9600 GT Green Edition]
	0625  G94 [GeForce 9600 GSO 512]
	0626  G94 [GeForce GT 130]
	0627  G94 [GeForce GT 140]
	0628  G94M [GeForce 9800M GTS]
	062a  G94M [GeForce 9700M GTS]
	062b  G94M [GeForce 9800M GS]
	062c  G94M [GeForce 9800M GTS]
	062d  G94 [GeForce 9600 GT]
	062e  G94 [GeForce 9600 GT]
	106b 0605  GeForce GT 130
	062f  G94 [GeForce 9800 S]
	0630  G94 [GeForce 9600 GT]
	0631  G94M [GeForce GTS 160M]
	0632  G94M [GeForce
	GTS 150M]
	0633  G94 [GeForce GT 220]
	0635  G94 [GeForce 9600 GSO]
	0637  G94 [GeForce 9600 GT]
	0638  G94GL [Quadro FX 1800]
	063a  G94GLM [Quadro FX 2700M]
	063f  G94 [GeForce 9600 GE]
	0640  G96C [GeForce 9500 GT]
	0641  G96C [GeForce 9400 GT]
	1682 4009  PV-T94G-ZAFG
	0642  G96 [D9M-10]
	0643  G96 [GeForce 9500 GT]
	0644  G96 [GeForce 9500 GS]
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174b 9600 Geforce 9500GS 512M DDR2 V/D/HDMI
0645 G96C [GeForce 9500 GS]
0646 G96C [GeForce GT 120]
0647 G96CM [GeForce 9600M GT]
0648 G96CM [GeForce 9600M GS]
0649 G96CM [GeForce 9600M GT]
1043 202d GeForce GT 220M
064a G96M [GeForce 9700M GT]
064b G96M [GeForce 9500M G]
064c G96CM [GeForce 9650M GT]
064e G96C [GeForce 9600 GSO / 9800 GT]
0651 G96CM [GeForce G 110M]
0652 G96CM [GeForce GT 130M]
152d 0850 GeForce GT 240M LE
0653 G96CM [GeForce GT 120M]
0654 G96CM [GeForce GT 220M]
1043 14a2 GeForce GT 320M
1043 14d2 GeForce GT 320M
0655 G96 [GeForce GT 120 Mac Edition]
0656 G96 [GeForce GT
120 Mac Edition]
0658 G96GL [Quadro FX 380]
0659 G96CGL [Quadro FX 580]
065a G96GLM [Quadro FX 1700M]
065b G96C [GeForce 9400 GT]
065c G96GLM [Quadro FX 770M]
065d G96 [GeForce 9500 GA / 9600 GT / GTS 250]
065f G96C [GeForce G210]
06c0 GF100 [GeForce GTX 480]
06c4 GF100 [GeForce GTX 465]
06ca GF100M [GeForce GTX 480M]
06cb GF100 [GeForce GTX 480]
06cd GF100 [GeForce GTX 470]
06d0 GF100GL
06d1 GF100GL [Tesla C2050 / C2070]
10de 0771 Tesla C2050
10de 0772 Tesla C2070
06d2 GF100GL [Tesla M2070]
10de 0774 Tesla M2070
10de 0830 Tesla M2070
10de 0842 Tesla M2070
10de 088f Tesla X2070
10de 0908 Tesla M2070
06d8 GF100GL [Quadro 6000]
06d9 GF100GL [Quadro 5000]
06da GF100GLM [Quadro 5000M]
06dc GF100GL [Quadro 6000]
06dd GF100GL [Quadro 4000]

06de GF100GL [Tesla T20 Processor]
 10de 0773 Tesla S2050
 10de 082f Tesla M2050
 10de 0840 Tesla X2070
 10de 0842 Tesla M2050
 10de 0846 Tesla M2050
 10de 0866 Tesla M2050
 10de
0907 Tesla M2050
 10de 091e Tesla M2050
06df GF100GL [Tesla M2070-Q]
 10de 084d Tesla M2070-Q
 10de 087f Tesla M2070-Q
06e0 G98 [GeForce 9300 GE]
 107d 5a96 Geforce 9300GE
06e1 G98 [GeForce 9300 GS]
06e2 G98 [GeForce 8400]
06e3 G98 [GeForce 8300 GS]
06e4 G98 [GeForce 8400 GS Rev. 2]
 1458 3475 GV-NX84S256HE [GeForce 8400 GS]
06e5 G98M [GeForce 9300M GS]
06e6 G98 [GeForce G 100]
06e7 G98 [GeForce 9300 SE]
06e8 G98M [GeForce 9200M GS]
 103c 360b GeForce 9200M GE
06e9 G98M [GeForce 9300M GS]
 1043 19b2 U6V laptop
06ea G98M [Quadro NVS 150M]
06eb G98M [Quadro NVS 160M]
06ec G98M [GeForce G 105M]
06ed G98 [GeForce 9600 GT / 9800 GT]
06ee G98 [GeForce 9600 GT / 9800 GT]
06ef G98M [GeForce G 103M]
06f1 G98M [GeForce G 105M]
06f8 G98 [Quadro NVS 420]
06f9 G98GL [Quadro FX 370 LP]
06fa G98 [Quadro NVS 450]
06fb G98GLM [Quadro FX 370M]
06fd G98 [Quadro NVS 295]
06ff G98 [HICx16 + Graphics]
 10de 0711 HICx8 + Graphics
0751 MCP78S
[GeForce 8200] Memory Controller
 103c 2a9e Pavilion p6310f
 1043 82e8 M3N72-D
 1462 7508 K9N2GM-FIH
 1849 0751 K10N78FullHD-hSLI R3.0 Memory Controller
0752 MCP78S [GeForce 8200] SMBus

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  103c 2a9e  Pavilion p6310f
  1043 82e8  M3N72-D
  1462 7508  K9N2GM-FIH
  1849 0752  K10N78FullHD-hSLI R3.0 SMBus
 0753  MCP78S [GeForce 8200] Co-Processor
  103c 2a9e  Pavilion p6310f
  1043 82e8  M3N72-D
  1462 7508  K9N2GM-FIH
  1849 0753  K10N78FullHD-hSLI R3.0 Co-Processor
 0754  MCP78S [GeForce 8200] Memory Controller
  103c 2a9e  Pavilion p6310f
  1043 82e8  M3N72-D
  1462 7508  K9N2GM-FIH
  1849 0754  K10N78FullHD-hSLI R3.0 Memory Controller
 0759  MCP78S [GeForce 8200] IDE
  1043 82e8  M3N72-D
  1462 7508  K9N2GM-FIH
  1849 0759  K10N78FullHD-hSLI R3.0 IDE
 075a  MCP78S [GeForce 8200] PCI Bridge
  103c 2a9e  Pavilion p6310f
  1043 82e8  M3N72-D
  1849 075a  K10N78FullHD-hSLI R3.0 PCI Bridge
 075b  MCP78S [GeForce 8200] PCI Express Bridge
  103c 2a9e  Pavilion p6310f
  1043 82e8  M3N72-D
  1462
 7508  K9N2GM-FIH
  1849 075b  K10N78FullHD-hSLI R3.0 PCI Express Bridge
 075c  MCP78S [GeForce 8200] LPC Bridge
  103c 2a9e  Pavilion p6310f
  1462 7508  K9N2GM-FIH
  1849 075c  K10N78FullHD-hSLI R3.0 LPC Bridge
 075d  MCP78S [GeForce 8200] LPC Bridge
  1043 82e8  M3N72-D
 0760  MCP77 Ethernet
  103c 2a9e  Pavilion p6310f
  1043 82e8  M3N72-D
  1462 7508  K9N2GM-FIH
  1849 0760  K10N78FullHD-hSLI R3.0 Ethernet
 0761  MCP77 Ethernet
 0762  MCP77 Ethernet
 0763  MCP77 Ethernet
 0774  MCP72XE/MCP72P/MCP78U/MCP78S High Definition Audio
  103c 2a9e  Pavilion p6310f
# has a Realtek ALC1200 HDAudio Codec
  1043 82fe  M3N72-D
  1462 7508  K9N2GM-FIH
  1849 3662  K10N78FullHD-hSLI R3.0 High Definition Audio
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0778 MCP78S [GeForce 8200] PCI Express Bridge
 103c 2a9e Pavilion p6310f
 1043 82e8 M3N72-D
 1462 7508 K9N2GM-FIH
 1849 0778 K10N78FullHD-hSLI R3.0 PCI Express Bridge
077a MCP78S [GeForce 8200] PCI Bridge
 103c 2a9e Pavilion p6310f
 1043 82e8 M3N72-D
 1462 7508
K9N2GM-FIH
 1849 077a K10N78FullHD-hSLI R3.0 PCI Bridge
077b MCP78S [GeForce 8200] OHCI USB 1.1 Controller
 103c 2a9e Pavilion p6310f
 1043 82e8 M3N72-D
 1462 7508 K9N2GM-FIH
 1849 077b K10N78FullHD-hSLI R3.0 OHCI USB 1.1 Controller
077c MCP78S [GeForce 8200] EHCI USB 2.0 Controller
 103c 2a9e Pavilion p6310f
 1043 82e8 M3N72-D
 1462 7508 K9N2GM-FIH
 1849 077c K10N78FullHD-hSLI R3.0 EHCI USB 2.0 Controller
077d MCP78S [GeForce 8200] OHCI USB 1.1 Controller
 103c 2a9e Pavilion p6310f
 1043 82e8 M3N72-D
 1462 7508 K9N2GM-FIH
 1849 077d K10N78FullHD-hSLI R3.0 OHCI USB 1.1 Controller
077e MCP78S [GeForce 8200] EHCI USB 2.0 Controller
 103c 2a9e Pavilion p6310f
 1043 82e8 M3N72-D
 1462 7508 K9N2GM-FIH
 1849 077e K10N78FullHD-hSLI R3.0 EHCI USB 2.0 Controller
07c0 MCP73 Host Bridge
 1afa 7150 JW-IN7150-HD
07c1 MCP73 Host Bridge
 1019 297a MCP73PVT-SM
07c2 MCP73 Host Bridge
07c3 MCP73 Host Bridge
 147b 1c3e I-N73V motherboard
07c5 MCP73
Host Bridge
07c8 MCP73 Memory Controller
 1019 297a MCP73PVT-SM
 147b 1c3e I-N73V motherboard
 1afa 7150 JW-IN7150-HD
07cb nForce 610i/630i memory controller
 1019 297a MCP73PVT-SM
 147b 1c3e I-N73V motherboard
 1afa 7150 JW-IN7150-HD

07cd nForce 610i/630i memory controller
 1019 297a MCP73PVT-SM
 147b 1c3e I-N73V motherboard
 1afa 7150 JW-IN7150-HD
07ce nForce 610i/630i memory controller
 1019 297a MCP73PVT-SM
 147b 1c3e I-N73V motherboard
 1afa 7150 JW-IN7150-HD
07cf nForce 610i/630i memory controller
 1019 297a MCP73PVT-SM
 147b 1c3e I-N73V motherboard
 1afa 7150 JW-IN7150-HD
07d0 nForce 610i/630i memory controller
 1019 297a MCP73PVT-SM
 147b 1c3e I-N73V motherboard
 1afa 7150 JW-IN7150-HD
07d1 nForce 610i/630i memory controller
 1019 297a MCP73PVT-SM
 147b 1c3e I-N73V motherboard
 1afa 7150 JW-IN7150-HD
07d2 nForce 610i/630i memory controller
 1019 297a MCP73PVT-SM
 147b 1c3e I-N73V motherboard
 1afa 7150 JW-IN7150-HD
07d3
 nForce 610i/630i memory controller
 1019 297a MCP73PVT-SM
 147b 1c3e I-N73V motherboard
 1afa 7150 JW-IN7150-HD
07d6 nForce 610i/630i memory controller
 1019 297a MCP73PVT-SM
 147b 1c3e I-N73V motherboard
 1afa 7150 JW-IN7150-HD
07d7 MCP73 LPC Bridge
 1019 297a MCP73PVT-SM
 147b 1c3e I-N73V motherboard
 1afa 7150 JW-IN7150-HD
07d8 MCP73 SMBus
 1019 297a MCP73PVT-SM
 147b 1c3e I-N73V motherboard
 1afa 7150 JW-IN7150-HD
07d9 MCP73 Memory Controller
 1019 297a MCP73PVT-SM
 147b 1c3e I-N73V motherboard
 1afa 7150 JW-IN7150-HD
07da MCP73 Co-processor
 1afa 7150 JW-IN7150-HD
07dc MCP73 Ethernet

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 147b 1c3e  I-N73V motherboard
07dd  MCP73 Ethernet
07de  MCP73 Ethernet
07df  MCP73 Ethernet
07e0  C73 [GeForce 7150 / nForce 630i]
 1afa 7150  JW-IN7150-HD
07e1  C73 [GeForce 7100 / nForce 630i]
 1019 297a  MCP73PVT-SM
07e2  C73 [GeForce 7050 / nForce 630i]
07e3  C73 [GeForce 7050 / nForce 610i]
 147b 1c3e  I-N73V motherboard
07e5  C73
[GeForce 7100 / nForce 620i]
07f0  MCP73 SATA Controller (IDE mode)
 147b 1c3e  I-N73V motherboard
07f4  GeForce 7100/nForce 630i SATA
 1019 297a  MCP73PVT-SM
 147b 1c3e  I-N73V motherboard
07f8  MCP73 SATA RAID Controller
 147b 1c3e  I-N73V motherboard
07fc  MCP73 High Definition Audio
 1019 297a  MCP73PVT-SM
 10de 07fc  MCP73 High Definition Audio
 147b 1c3e  I-N73V motherboard
07fe  MCP73 OHCI USB 1.1 Controller
 1019 297a  MCP73PVT-SM
 147b 1c3e  I-N73V motherboard
 1afa 7150  JW-IN7150-HD
0840  C77 [GeForce 8200M]
0844  C77 [GeForce 9100M G]
0845  C77 [GeForce 8200M G]
0846  C77 [GeForce 9200]
0847  C78 [GeForce 9100]
 103c 2a9e  Pavilion p6310f
0848  C77 [GeForce 8300]
0849  C77 [GeForce 8200]
 1462 7508  K9N2GM-FIH
 1849 0849  K10N78FullHD-hSLI R3.0 GeForce 8200
084a  C77 [nForce 730a]
084b  C77 [GeForce 8200]
084c  C77 [nForce 780a/980a SLI]
084d  C77 [nForce 750a SLI]
 1043 82e8  M3N72-D mGPU
084f  C77 [GeForce 8100 / nForce 720a]
0860  C79 [GeForce
9300]
0861  C79 [GeForce 9400]
0862  C79 [GeForce 9400M G]
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0863  C79 [GeForce 9400M]
 106b 00aa  MacBook5,1
0864  C79 [GeForce 9300]
0865  C79 [GeForce 9300 / ION]
0866  C79 [GeForce 9400M G]
 106b 00b1  GeForce 9400M
0867  C79 [GeForce 9400]
 106b 00ad  iMac 9,1
0868  C79 [nForce 760i SLI]
0869  MCP7A [GeForce 9400]
086a  C79 [GeForce 9400]
086c  C79 [GeForce 9300 / nForce 730i]
086d  C79 [GeForce 9200]
086e  C79 [GeForce 9100M G]
086f  MCP79 [GeForce 8200M G]
0870  C79 [GeForce 9400M]
0871  C79 [GeForce 9200]
0872  C79 [GeForce G102M]
 1043 19b4  GeForce G102M
 1043 1aa2  GeForce G102M
 1043 1c02  GeForce G102M
 1043 1c42  GeForce G205M
0873  C79 [GeForce G102M]
 1043 19b4  GeForce G102M
 1043 1c12  GeForce G102M
 1043 1c52  GeForce G205M
0874  C79 [ION]
0876  C79 [GeForce 9400M / ION]
087a  C79 [GeForce 9400]
087d  C79 [ION]
 19da a123  IONITX-F-E
087e  C79 [ION LE]
087f  C79 [ION LE]
08a0  MCP89 [GeForce 320M]
08a2  MCP89 [GeForce 320M]
08a3
 MCP89 [GeForce 320M]
08a4  MCP89 [GeForce 320M]
08a5  MCP89 [GeForce 320M]
0a20  GT216 [GeForce GT 220]
 1043 8311  ENGT220/DI/1GD3(LP)/V2
0a21  GT216M [GeForce GT 330M]
0a22  GT216 [GeForce 315]
0a23  GT216 [GeForce 210]
0a26  GT216 [GeForce 405]
0a27  GT216 [GeForce 405]
0a28  GT216M [GeForce GT 230M]
0a29  GT216M [GeForce GT 330M]
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0a2a  GT216M [GeForce GT 230M]
0a2b  GT216M [GeForce GT 330M]
0a2c  GT216M [NVS 5100M]
0a2d  GT216M [GeForce GT 320M]
0a30  GT216 [GeForce 505]
0a32  GT216 [GeForce GT 415]
0a34  GT216M [GeForce GT 240M]
0a35  GT216M [GeForce GT 325M]
0a38  GT216GL [Quadro 400]
0a3c  GT216GLM [Quadro FX 880M]
0a60  GT218 [GeForce G210]
0a62  GT218 [GeForce 205]
0a63  GT218 [GeForce 310]
0a64  GT218 [ION]
0a65  GT218 [GeForce 210]
 1043 8334  EN210 SILENT
 1458 36a9  GV-N210D3-1GI (rev. 6.0/6.1)
 1462 8094  N210 [Geforce 210] PCIe graphics adapter
0a66  GT218 [GeForce 310]
0a67  GT218 [GeForce 315]
0a68  GT218M [GeForce G 105M]
0a69  GT218M
[GeForce G 105M]
0a6a  GT218M [NVS 2100M]
0a6c  GT218M [NVS 3100M]
 1028 040b  Latitude E6510
 17aa 2142  ThinkPad T410
0a6e  GT218M [GeForce 305M]
0a6f  GT218M [ION]
0a70  GT218M [GeForce 310M]
0a71  GT218M [GeForce 305M]
0a72  GT218M [GeForce 310M]
0a73  GT218M [GeForce 305M]
0a74  GT218M [GeForce G210M]
 1b0a 903a  GeForce G210
0a75  GT218M [GeForce 310M]
0a76  GT218M [ION 2]
0a78  GT218GL [Quadro FX 380 LP]
0a7a  GT218M [GeForce 315M]
 104d 907e  GeForce 315M
 1179 fc50  GeForce 315M
 1179 fc61  GeForce 315M
 1179 fc71  GeForce 315M
 1179 fc90  GeForce 315M
 1179 fcc0  GeForce 315M
 1179 fcd0  GeForce 315M
 1179 fce2  GeForce 315M
 1179 fcf2  GeForce 315M
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1179 fd16 GeForce 315M
1179 fd40 GeForce 315M
1179 fd50 GeForce 315M
1179 fd52 GeForce 315M
1179 fd61 GeForce 315M
1179 fd71 GeForce 315M
1179 fd92 GeForce 315M
1179 fd96 GeForce 315M
1179 fdd0 GeForce 315M
1179 fdd2 GeForce 315M
1179 fdfe GeForce 315M
144d c0a2 GeForce
315M
144d c0b2 GeForce 315M
144d c581 GeForce 315M
144d c587 GeForce 315M
144d c588 GeForce 315M
144d c597 GeForce 315M
144d c606 GeForce 315M
1462 aa51 GeForce 405
1462 aa58 GeForce 405
1462 ac71 GeForce 405
1462 ac81 GeForce 315M
1462 ac82 GeForce 405
1462 ae33 GeForce 405
1642 3980 GeForce 405
17aa 3950 GeForce 405M
17aa 397d GeForce 405M
1b0a 2091 GeForce 315M
1b0a 90b4 GeForce 405
1bfd 0003 GeForce 405
1bfd 8006 GeForce 405
1bfd 8007 GeForce 315M
0a7b GT218 [GeForce 505]
0a7c GT218GLM [Quadro FX 380M]
0a80 MCP79 Host Bridge
0a81 MCP79 Host Bridge
0a82 MCP79 Host Bridge
0a83 MCP79 Host Bridge
0a84 MCP79 Host Bridge
0a85 MCP79 Host Bridge
0a86 MCP79 Host Bridge
0a87 MCP79 Host Bridge
0a88 MCP79 Memory Controller
0a89 MCP79 Memory Controller
0a98 MCP79 Memory Controller
10de cb79 iMac 9,1
0aa0 MCP79 PCI Express Bridge

10de cb79 Apple iMac 9,1
0aa2 MCP79 SMBus
10de cb79 Apple iMac
9,1
19da a123 IONITX-F-E
0aa3 MCP79 Co-processor
10de cb79 Apple iMac 9,1
19da a123 IONITX-F-E
0aa4 MCP79 Memory Controller
19da a123 IONITX-F-E
0aa5 MCP79 OHCI USB 1.1 Controller
10de cb79 Apple iMac 9,1
19da a123 IONITX-F-E
0aa6 MCP79 EHCI USB 2.0 Controller
10de cb79 Apple iMac 9,1
19da a123 IONITX-F-E
0aa7 MCP79 OHCI USB 1.1 Controller
10de cb79 Apple iMac 9,1
19da a123 IONITX-F-E
0aa8 MCP79 OHCI USB 1.1 Controller
0aa9 MCP79 EHCI USB 2.0 Controller
10de cb79 Apple iMac 9,1
19da a123 IONITX-F-E
0aaa MCP79 EHCI USB 2.0 Controller
0aab MCP79 PCI Bridge
10de cb79 Apple iMac 9,1
0aac MCP79 LPC Bridge
0aad MCP79 LPC Bridge
19da a123 IONITX-F-E
0aae MCP79 LPC Bridge
10de cb79 Apple iMac 9,1
0aaf MCP79 LPC Bridge
0ab0 MCP79 Ethernet
10de cb79 Apple iMac 9,1
19da a123 IONITX-F-E
0ab1 MCP79 Ethernet
0ab2 MCP79 Ethernet
0ab3 MCP79 Ethernet
0ab4 MCP79 SATA Controller
19da a123 IONITX-F-E
0ab5 MCP79 SATA
Controller
0ab6 MCP79 SATA Controller
0ab7 MCP79 SATA Controller
0ab8 MCP79 AHCI Controller
0ab9 MCP79 AHCI Controller
10de cb79 Apple iMac 9,1
0aba MCP79 AHCI Controller

0abb MCP79 AHCI Controller
0abc MCP79 RAID Controller
0abd MCP79 RAID Controller
0abe MCP79 RAID Controller
0abf MCP79 RAID Controller
0ac0 MCP79 High Definition Audio
 10de cb79 Apple iMac 9,1
0ac1 MCP79 High Definition Audio
0ac2 MCP79 High Definition Audio
0ac3 MCP79 High Definition Audio
0ac4 MCP79 PCI Express Bridge
 10de cb79 Apple iMac 9,1
0ac5 MCP79 PCI Express Bridge
0ac6 MCP79 PCI Express Bridge
 10de cb79 Apple iMac 9,1
0ac7 MCP79 PCI Express Bridge
 10de cb79 Apple iMac 9,1
0ac8 MCP79 PCI Express Bridge
0ad0 MCP78S [GeForce 8200] SATA Controller (non-AHCI mode)
 1462 7508 K9N2GM-FIH
 1849 0ad0 K10N78FullHD-hSLI R3.0 IDE
0ad4 MCP78S [GeForce 8200] AHCI Controller
 103c 2a9e Pavilion p6310f
 1043 82e8 M3N72-D
 1849 0ad4 K10N78FullHD-hSLI R3.0 AHCI
Controller
0ad8 MCP78S [GeForce 8200] SATA Controller (RAID mode)
0be2 GT216 HDMI Audio Controller
 1043 8311 ENGT220/DI/1GD3(LP)/V2
0be3 High Definition Audio Controller
 1028 040b Latitude E6510
 10de 066d G98 [GeForce 8400GS]
 1462 8094 N210 [Geforce 210] PCIe graphics adapter
0be4 High Definition Audio Controller
0be5 GF100 High Definition Audio Controller
0be9 GF106 High Definition Audio Controller
 1558 8687 CLEVO/KAPOK W860CU
 3842 1452 GeForce GTS 450
0bea GF108 High Definition Audio Controller
 3842 1430 GeForce GT 430
0beb GF104 High Definition Audio Controller
 1462 2322 N460GTX Cyclone 1GD5/OC
0bee GF116 High Definition Audio Controller
0bf0 Tegra2 PCIe x4 Bridge
0bf1 Tegra2 PCIe x2 Bridge
0ca0 GT215 [GeForce GT 330]
0ca2 GT215 [GeForce GT 320]
0ca3 GT215 [GeForce GT 240]

0ca4 GT215 [GeForce GT 340]
0ca5 GT215 [GeForce GT 220]
0ca7 GT215 [GeForce GT 330]
0ca8 GT215M [GeForce GTS 260M]
0ca9 GT215M [GeForce GTS 250M]
0cac
 GT215 [GeForce GT 220/315]
0caf GT215M [GeForce GT 335M]
0cb0 GT215M [GeForce GTS 350M]
0cb1 GT215M [GeForce GTS 360M]
0cbc GT215GLM [Quadro FX 1800M]
0d60 MCP89 HOST Bridge
0d68 MCP89 Memory Controller
0d69 MCP89 Memory Controller
0d76 MCP89 PCI Express Bridge
0d79 MCP89 SMBus
0d7a MCP89 Co-Processor
0d7b MCP89 Memory Controller
0d7d MCP89 Ethernet
0d80 MCP89 LPC Bridge
0d85 MCP89 SATA Controller
0d88 MCP89 SATA Controller (AHCI mode)
0d89 MCP89 SATA Controller (AHCI mode)
0d8d MCP89 SATA Controller (RAID mode)
0d94 MCP89 High Definition Audio
0d9c MCP89 OHCI USB 1.1 Controller
0d9d MCP89 EHCI USB 2.0 Controller
0dc0 GF106 [GeForce GT 440]
0dc4 GF106 [GeForce GTS 450]
0dc5 GF106 [GeForce GTS 450 OEM]
0dc6 GF106 [GeForce GTS 450 OEM]
0dcd GF106M [GeForce GT 555M]
0dce GF106M [GeForce GT 555M]
0dd1 GF106M [GeForce GTX 460M]
 1558 8687 CLEVO/KAPOK W860CU
0dd2 GF106M [GeForce GT 445M]
0dd3 GF106M [GeForce GT 435M]
0dd6 GF106M
[GeForce GT 550M]
0dd8 GF106GL [Quadro 2000]
 10de 0914 Quadro 2000D
0dda GF106GLM [Quadro 2000M]
0de0 GF108 [GeForce GT 440]
0de1 GF108 [GeForce GT 430]
 3842 1430 GeForce GT 430
0de2 GF108 [GeForce GT 420]
0de3 GF108M [GeForce GT 635M]
0de4 GF108 [GeForce GT 520]

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0de5  GF108 [GeForce GT 530]
0de7  GF108 [GeForce GT 610]
0de8  GF108M [GeForce GT 620M]
0de9  GF108M [GeForce GT 620M/630M/635M/640M LE]
 1025 0692  GeForce GT 620M
 1025 0725  GeForce GT 620M
 1025 0728  GeForce GT 620M
 1025 072b  GeForce GT 620M
 1025 072e  GeForce GT 620M
 1025 0753  GeForce GT 620M
 1025 0754  GeForce GT 620M
 17aa 3977  GeForce GT 640M LE
 1b0a 2210  GeForce GT 635M
0dea  GF108M [GeForce 610M]
 17aa 365a  GeForce 615
 17aa 365b  GeForce 615
 17aa 365e  GeForce 615
 17aa 3660  GeForce 615
 17aa 366c  GeForce 615
0deb  GF108M [GeForce GT 555M]
0dec  GF108M [GeForce GT 525M]
0ded  GF108M [GeForce GT 520M]
0dee  GF108M [GeForce GT 415M]
0def  GF108M [NVS 5400M]
0df0
 GF108M [GeForce GT 425M]
0df1  GF108M [GeForce GT 420M]
0df2  GF108M [GeForce GT 435M]
0df3  GF108M [GeForce GT 420M]
0df4  GF108M [GeForce GT 540M]
 152d 0952  GeForce GT 630M
 152d 0953  GeForce GT 630M
0df5  GF108M [GeForce GT 525M]
0df6  GF108M [GeForce GT 550M]
0df7  GF108M [GeForce GT 520M]
0df8  GF108GL [Quadro 600]
0df9  GF108GLM [Quadro 500M]
0dfa  GF108GLM [Quadro 1000M]
0dfc  GF108GLM [NVS 5200M]
0e08  GF119 HDMI Audio Controller
 1043 83a0  ENGT520 SILENT
# 1024MB with passive cooling (heatsink)
 10b0 104a  Gainward GeForce GT 610
0e09  GF110 High Definition Audio Controller
0e0a  GK104 HDMI Audio Controller
0e0b  GK106 HDMI Audio Controller
0e0c  GF114 HDMI Audio Controller
0e0f  GK208 HDMI/DP Audio Controller
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0e12 TegraK1 PCIe x4 Bridge
0e13 TegraK1 PCIe x1 Bridge
0e1a GK110 High Definition Audio Controller
0e1b GK107 HDMI Audio Controller
 103c 197b ZBook 15
 1043 8428 GTX650-DC-1GD5
0e1c Tegra3+ PCIe x4 Bridge
0e1d Tegra3+
PCIe x2 Bridge
0e22 GF104 [GeForce GTX 460]
 1462 2322 N460GTX Cyclone 1GD5/OC
0e23 GF104 [GeForce GTX 460 SE]
0e24 GF104 [GeForce GTX 460 OEM]
0e30 GF104M [GeForce GTX 470M]
0e31 GF104M [GeForce GTX 485M]
0e3a GF104GLM [Quadro 3000M]
0e3b GF104GLM [Quadro 4000M]
0f00 GF108 [GeForce GT 630]
0f01 GF108 [GeForce GT 620]
0f02 GF108 [GeForce GT 730]
0f03 GF108 [GeForce GT 610]
0f06 GF108 [GeForce GT 730]
0fb0 GM200 High Definition Audio
0fb8 GP108 High Definition Audio Controller
0fb9 GP107GL High Definition Audio Controller
0fba GM206 High Definition Audio Controller
0fbb GM204 High Definition Audio Controller
0fbc GM107 High Definition Audio Controller [GeForce 940MX]
0fc0 GK107 [GeForce GT 640 OEM]
0fc1 GK107 [GeForce GT 640]
0fc2 GK107 [GeForce GT 630 OEM]
0fc5 GK107 [GeForce GT 1030]
0fc6 GK107 [GeForce GTX 650]
 1043 8428 GTX650-DC-1GD5
0fc8 GK107 [GeForce GT 740]
0fc9 GK107 [GeForce GT 730]
0fcd GK107M [GeForce GT 755M]
0fce
GK107M [GeForce GT 640M LE]
0fd1 GK107M [GeForce GT 650M]
 1043 1597 GeForce GT 650M
 1043 15a7 GeForce GT 650M
 1043 2103 N56VZ
 1043 2105 GeForce GT 650M
 1043 2141 GeForce GT 650M
0fd2 GK107M [GeForce GT 640M]
 1028 054f GeForce GT 640M
 1028 055f GeForce GT 640M

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	1028 0595  GeForce GT 640M LE
	1028 05b2  GeForce GT 640M LE
	0fd3  GK107M [GeForce GT 640M LE]
	0fd4  GK107M [GeForce GTX 660M]
	0fd5  GK107M [GeForce GT 650M Mac Edition]
	0fd8  GK107M [GeForce GT 640M Mac Edition]
	0fd9  GK107M [GeForce GT 645M]
	0fdb  GK107M
	0fdf  GK107M [GeForce GT 740M]
	0fe0  GK107M [GeForce GTX 660M Mac Edition]
	0fe1  GK107M [GeForce GT 730M]
	0fe2  GK107M [GeForce GT 745M]
	0fe3  GK107M [GeForce GT 745M]
	103c 2b16  GeForce GT 745A
	17aa 3675  GeForce GT 745A
	0fe4  GK107M [GeForce GT 750M]
	0fe5  GK107 [GeForce K340 USM]
	0fe6  GK107 [GRID K1 NVS USM]
	# GRID K1 USM
	0fe7  GK107GL [GRID K100 vGPU]
	10de 101e  GRID K100
	0fe9  GK107M [GeForce GT 750M Mac Edition]
	0fea  GK107M
	[GeForce GT 755M Mac Edition]
	0fec  GK107M [GeForce 710A]
	0fed  GK107M [GeForce 820M]
	0fee  GK107M [GeForce 810M]
	0fef  GK107GL [GRID K340]
	0ff1  GK107 [NVS 1000]
	0ff2  GK107GL [GRID K1]
	0ff3  GK107GL [Quadro K420]
	0ff5  GK107GL [GRID K1 Tesla USM]
	0ff6  GK107GLM [Quadro K1100M]
	103c 197b  ZBook 15
	# GRID K1 Quadro USM
	0ff7  GK107GL [GRID K140Q vGPU]
	10de 1037  GRID K140Q
	0ff8  GK107GLM [Quadro K500M]
	0ff9  GK107GL [Quadro K2000D]
	0ffa  GK107GL [Quadro K600]
	0ffb  GK107GLM [Quadro K2000M]
	0ffc  GK107GLM [Quadro K1000M]
	0ffd  GK107 [NVS 510]
	0ffe  GK107GL [Quadro K2000]
	0fff  GK107GL [Quadro 410]
	1001  GK110B [GeForce GTX TITAN Z]
	1003  GK110 [GeForce GTX Titan LE]
	1004  GK110 [GeForce GTX 780]
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  3842 0784  GK110B [GeForce GTX 780 SC w/ ACX Cooler]
  3842 1784  GK110B [GeForce GTX 780 Dual FTW w/ ACX Cooler]
  3842 1788  GK110B [GeForce GTX 780 Dual Classified w/ ACX Cooler]
 1005  GK110 [GeForce GTX TITAN]
  1043 8451  GTXTITAN-6GD5
# Reference Model
  10de
 1035  GeForce GTX Titan
# 06G-P4-2790-KR
  3842 2790  GeForce GTX Titan
# 06G-P4-2791-KR
  3842 2791  GeForce GTX Titan SC
# 06G-P4-2793-KR
  3842 2793  GeForce GTX Titan SC Signature
# 06G-P4-2794-KR
  3842 2794  GeForce GTX Titan SC Hydro Copper
# 06G-P4-2795-KR
  3842 2795  GeForce GTX Titan SC Hydro Copper Signature
 1007  GK110 [GeForce GTX 780 Rev. 2]
 1008  GK110 [GeForce GTX 780 Ti 6GB]
 100a  GK110B [GeForce GTX 780 Ti]
 100c  GK110B [GeForce GTX TITAN Black]
 101e  GK110GL [Tesla K20X]
 101f  GK110GL [Tesla K20]
 1020  GK110GL [Tesla K20X]
 1021  GK110GL [Tesla K20Xm]
 1022  GK110GL [Tesla K20c]
 1023  GK110BGL [Tesla K40m]
  10de 097e  12GB Computational Accelerator
 1024  GK180GL [Tesla K40c]
 1026  GK110GL [Tesla K20s]
 1027  GK110BGL [Tesla K40st]
 1028  GK110GL [Tesla K20m]
 1029  GK110BGL [Tesla K40s]
 102a  GK110BGL [Tesla K40t]
 102d  GK210GL [Tesla K80]
 102e  GK110BGL [Tesla K40d]
 102f  GK110BGL [Tesla Stella Solo]
 103a  GK110GL [Quadro K6000]
 103c  GK110GL [Quadro
 K5200]
 103f  GK110BGL [Tesla Stella SXM]
 1040  GF119 [GeForce GT 520]
  1043 83a0  ENGT520 SILENT
 1042  GF119 [GeForce 510]
 1045  GF119
 1048  GF119 [GeForce 605]
 1049  GF119 [GeForce GT 620 OEM]
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 104a  GF119 [GeForce GT 610]
# 1024MB with passive cooling (heatsink)
  10b0 104a  Gainward GeForce GT 610
 104b  GF119 [GeForce GT 625 OEM]
 104c  GF119 [GeForce GT 705]
 104d  GF119 [GeForce GT 710]
 1050  GF119M [GeForce GT 520M]
 1051  GF119M [GeForce GT 520MX]
 1052  GF119M [GeForce GT 520M]
 1054  GF119M [GeForce 410M]
 1055  GF119M [GeForce 410M]
 1056  GF119M [NVS 4200M]
 1057  GF119M [Quadro NVS 4200M]
 1058  GF119M [GeForce 610M]
  103c 2aed  GeForce 610
  103c 2af1  GeForce 610
  1043 10ac  GeForce GT 610M
  1043 10bc  GeForce GT 610M
  1043 1652  GeForce GT 610M
  17aa 367a  GeForce 610M
  17aa 3682  GeForce 800A
  17aa 3687  GeForce 800A
  17aa 3692  GeForce 705A
  17aa 3695  GeForce 800A
  17aa a117  GeForce 610M
 1059  GF119M [GeForce 610M]
 105a  GF119M [GeForce 610M]
  1043
 2111  GeForce GT 610M
  1043 2112  GeForce GT 610M
 105b  GF119M [GeForce 705M]
  103c 2afb  GeForce 705A
  17aa 309d  GeForce 705A
  17aa 30b1  GeForce 800A
  17aa 30f3  GeForce 705A
  17aa 36a1  GeForce 800A
 107c  GF119 [NVS 315]
 107d  GF119 [NVS 310]
 1080  GF110 [GeForce GTX 580]
 1081  GF110 [GeForce GTX 570]
  10de 087e  Leadtek WinFast GTX 570
 1082  GF110 [GeForce GTX 560 Ti OEM]
 1084  GF110 [GeForce GTX 560 OEM]
 1086  GF110 [GeForce GTX 570 Rev. 2]
 1087  GF110 [GeForce GTX 560 Ti 448 Cores]
 1088  GF110 [GeForce GTX 590]
 1089  GF110 [GeForce GTX 580 Rev. 2]
 108b  GF110 [GeForce GTX 580]
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108e GF110GL [Tesla C2090]
1091 GF110GL [Tesla M2090]
 10de 088e Tesla X2090
 10de 0891 Tesla X2090
 10de 0974 Tesla X2090
 10de 098d Tesla X2090
1094 GF110GL [Tesla M2075]
 10de 0888 Tesla M2075
1096 GF110GL [Tesla C2050 / C2075]
 10de 0910 Tesla C2075
 10de 0911 Tesla C2050
109a GF100GLM [Quadro 5010M]
109b GF100GL [Quadro 7000]
 10de 0918 Quadro 7000
10c0
 GT218 [GeForce 9300 GS Rev. 2]
10c3 GT218 [GeForce 8400 GS Rev. 3]
10c5 GT218 [GeForce 405]
10d8 GT218 [NVS 300]
10ef GP102 HDMI Audio Controller
10f0 GP104 High Definition Audio Controller
10f1 GP106 High Definition Audio Controller
10f7 TU102 High Definition Audio Controller
10f8 TU104 HD Audio Controller
10f9 TU106 High Definition Audio Controller
 1043 8673 TURBO-RTX2070-8G
1140 GF117M [GeForce 610M/710M/810M/820M / GT 620M/625M/630M/720M]
 1019 0799 GeForce 820M
 1019 999f GeForce GT 720M
 1025 0600 GeForce GT 620M
 1025 0606 GeForce GT 620M
 1025 064a GeForce GT 620M
 1025 064c GeForce GT 620M
 1025 067a GeForce GT 620M
 1025 0680 GeForce GT 620M
 1025 0686 GeForce 710M
 1025 0689 GeForce 710M
 1025 068b GeForce 710M
 1025 068d GeForce 710M
 1025 068e GeForce 710M
 1025 0691 GeForce 710M
 1025 0692 GeForce GT 620M
 1025 0694 GeForce GT 620M
 1025 0702 GeForce GT 620M
 1025 0719 GeForce GT 620M
 1025 0725 GeForce
GT 620M
 1025 0728 GeForce GT 620M

1025 072b GeForce GT 620M
1025 072e GeForce GT 620M
1025 0732 GeForce GT 620M
1025 0763 GeForce GT 720M
1025 0773 GeForce 710M
1025 0774 GeForce 710M
1025 0776 GeForce GT 720M
1025 077a GeForce 710M
1025 077b GeForce 710M
1025 077c GeForce 710M
1025 077d GeForce 710M
1025 077e GeForce 710M
1025 077f GeForce 710M
1025 0781 GeForce GT 720M
1025 0798 GeForce GT 720M
1025 0799 GeForce GT 720M
1025 079b GeForce GT 720M
1025 079c GeForce GT 720M
1025 0807 GeForce GT 720M
1025 0821 GeForce GT 720M
1025 0823 GeForce GT 720M
1025 0830 GeForce GT 720M
1025 0833 GeForce GT 720M
1025 0837 GeForce GT 720M
1025 083e GeForce 820M
1025 0841 GeForce 710M
1025 0854 GeForce 820M
1025 0855 GeForce 820M
1025 0856 GeForce 820M
1025 0857 GeForce 820M
1025 0858 GeForce 820M
1025 0863 GeForce 820M
1025 0868 GeForce 820M
1025 0869 GeForce 810M
1025 0873 GeForce 820M
1025
0878 GeForce 820M
1025 087b GeForce 820M
1025 087c GeForce 810M
1025 0881 GeForce 820M
1025 088a GeForce 820M
1025 089b GeForce 820M
1025 090f GeForce 820M
1025 0921 GeForce 820M
1025 092e GeForce 810M
1025 092f GeForce 820M
1025 0932 GeForce 820M
1025 093a GeForce 820M

1025 093c GeForce 820M
1025 093f GeForce 820M
1025 0941 GeForce 820M
1025 0945 GeForce 820M
1025 0954 GeForce 820M
1025 0965 GeForce 820M
1028 054d GeForce GT 630M
1028 054e GeForce GT 630M
1028 0554 GeForce GT 620M
1028 0557 GeForce GT 620M
1028 0562 GeForce GT 625M
1028 0565 GeForce GT 630M
1028 0568 GeForce GT 630M
1028 0590 GeForce GT 630M
1028 0592 GeForce GT 625M
1028 0594 GeForce GT 625M
1028 0595 GeForce GT 625M
1028 05a2 GeForce GT 625M
1028 05b1 GeForce GT 625M
1028 05b3 GeForce GT 625M
1028 05da GeForce GT 630M
1028 05de GeForce GT 720M
1028 05e0 GeForce GT 720M
1028 05e8 GeForce GT 630M
1028 05f4 GeForce
GT 720M
1028 060f GeForce GT 720M
1028 064e GeForce 820M
1028 0652 GeForce 820M
1028 0653 GeForce 820M
1028 0655 GeForce 820M
1028 065e GeForce 820M
1028 0662 GeForce 820M
1028 068d GeForce 820M
1028 06ad GeForce 820M
1028 06ae GeForce 820M
1028 06af GeForce 820M
1028 06b0 GeForce 820M
1028 06c0 GeForce 820M
1028 06c1 GeForce 820M
103c 18ef GeForce GT 630M
103c 18f9 GeForce GT 630M
103c 18fb GeForce GT 630M
103c 18fd GeForce GT 630M
103c 18ff GeForce GT 630M
103c 218a GeForce 820M
103c 21bb GeForce 820M
103c 21bc GeForce 820M

103c 220e GeForce 820M
103c 2210 GeForce 820M
103c 2212 GeForce 820M
103c 2214 GeForce 820M
103c 2218 GeForce 820M
103c 225b GeForce 820M
103c 225d GeForce 820M
103c 226d GeForce 820M
103c 226f GeForce 820M
103c 22d2 GeForce 820M
103c 22d9 GeForce 820M
103c 2335 GeForce 820M
103c 2337 GeForce 820M
103c 2aef GeForce GT 720A
103c 2af9 GeForce 710A
1043
10dd NVS 5200M
1043 10ed NVS 5200M
1043 11fd GeForce GT 720M
1043 124d GeForce GT 720M
1043 126d GeForce GT 720M
1043 131d GeForce GT 720M
1043 13fd GeForce GT 720M
1043 14c7 GeForce GT 720M
1043 1507 GeForce GT 620M
1043 15ad GeForce 820M
1043 15ed GeForce 820M
1043 160d GeForce 820M
1043 163d GeForce 820M
1043 166d GeForce 820M
1043 16cd GeForce 820M
1043 16dd GeForce 820M
1043 170d GeForce 820M
1043 176d GeForce 820M
1043 178d GeForce 820M
1043 179d GeForce 820M
1043 17dd GeForce 820M
1043 2132 GeForce GT 620M
1043 2136 NVS 5200M
1043 21ba GeForce GT 720M
1043 21fa GeForce GT 720M
1043 220a GeForce GT 720M
1043 221a GeForce GT 720M
1043 223a GeForce GT 710M
1043 224a GeForce GT 710M
1043 227a GeForce 820M
1043 228a GeForce 820M
1043 232a GeForce 820M

1043 233a GeForce 820M
1043 235a GeForce 820M
1043 236a GeForce 820M
1043 238a GeForce 820M
1043 8595 GeForce GT 720M
1043
85ea GeForce GT 720M
1043 85eb GeForce 820M
1043 85ec GeForce 820M
1043 85ee GeForce GT 720M
1043 85f3 GeForce 820M
1043 860e GeForce 820M
1043 861a GeForce 820M
1043 861b GeForce 820M
1043 8628 GeForce 820M
1043 8643 GeForce 820M
1043 864c GeForce 820M
1043 8652 GeForce 820M
1043 8660 GeForce 820M
1043 8661 GeForce 820M
105b 0dac GeForce GT 720M
105b 0dad GeForce GT 720M
105b 0ef3 GeForce GT 720M
1072 152d GeForce GT 720M
10cf 17f5 GeForce GT 720M
1179 fa01 GeForce 710M
1179 fa02 GeForce 710M
1179 fa03 GeForce 710M
1179 fa05 GeForce 710M
1179 fa11 GeForce 710M
1179 fa13 GeForce 710M
1179 fa18 GeForce 710M
1179 fa19 GeForce 710M
1179 fa21 GeForce 710M
1179 fa23 GeForce 710M
1179 fa2a GeForce 710M
1179 fa32 GeForce 710M
1179 fa33 GeForce 710M
1179 fa36 GeForce 710M
1179 fa38 GeForce 710M
1179 fa42 GeForce 710M
1179 fa43 GeForce 710M
1179 fa45 GeForce 710M
1179 fa47 GeForce
710M
1179 fa49 GeForce 710M
1179 fa58 GeForce 710M
1179 fa59 GeForce 710M

1179 fa88 GeForce 710M
1179 fa89 GeForce 710M
144d b092 GeForce GT 620M
144d c0d5 GeForce GT 630M
144d c0d7 GeForce GT 620M
144d c0e2 NVS 5200M
144d c0e3 NVS 5200M
144d c0e4 NVS 5200M
144d c10d GeForce 820M
144d c652 GeForce GT 620M on NP300E5C series laptop
144d c709 GeForce 710M
144d c711 GeForce 710M
144d c736 GeForce 710M
144d c737 GeForce 710M
144d c745 GeForce 820M
144d c750 GeForce 820M
1462 10b8 GeForce GT 710M
1462 10e9 GeForce GT 720M
1462 1116 GeForce 820M
1462 aa33 GeForce 720M
1462 aaa2 GeForce GT 720M
1462 aaa3 GeForce 820M
1462 acb2 GeForce GT 720M
1462 acc1 GeForce GT 720M
1462 ae61 GeForce 720M
1462 ae65 GeForce GT 720M
1462 ae6a GeForce 820M
1462 ae71 GeForce GT 720M
14c0 0083 GeForce 820M
152d 0926 GeForce 620M
152d 0982 GeForce GT 630M
152d 0983 GeForce GT 630M
152d 1005 GeForce GT 820M
152d
1012 GeForce 710M
152d 1019 GeForce 820M
152d 1030 GeForce GT 630M
152d 1055 GeForce 710M
152d 1067 GeForce GT 720M
152d 1072 GeForce GT 720M
152d 1086 GeForce 820M
152d 1092 GeForce 820M
17aa 2200 NVS 5200M
17aa 2213 GeForce GT 720M
17aa 2220 GeForce GT 720M
17aa 309c GeForce GT 720A
17aa 30b4 GeForce 820A
17aa 30b7 GeForce 720A

17aa 30e4 GeForce 820A
17aa 361b GeForce 820A
17aa 361c GeForce 820A
17aa 361d GeForce 820A
17aa 3656 GeForce GT 620M
17aa 365a GeForce 705M
17aa 365e GeForce 800M
17aa 3661 GeForce 820A
17aa 366c GeForce 800M
17aa 3685 GeForce 800M
17aa 3686 GeForce 800M
17aa 3687 GeForce 705A
17aa 3696 GeForce 820A
17aa 369b GeForce 820A
17aa 369c GeForce 820A
17aa 369d GeForce 820A
17aa 369e GeForce 820A
17aa 36a9 GeForce 820A
17aa 36af GeForce 820A
17aa 36b0 GeForce 820A
17aa 36b6 GeForce 820A
17aa 3800 GeForce GT 720M
17aa 3801 GeForce GT 720M
17aa 3802 GeForce
GT 720M
17aa 3803 GeForce GT 720M
17aa 3804 GeForce GT 720M
17aa 3806 GeForce GT 720M
17aa 3808 GeForce GT 720M
17aa 380d GeForce 820M
17aa 380e GeForce 820M
17aa 380f GeForce 820M
17aa 3811 GeForce 820M
17aa 3812 GeForce 820M
17aa 3813 GeForce 820M
17aa 3816 GeForce 820M
17aa 3818 GeForce 820M
17aa 381a GeForce 820M
17aa 381c GeForce 820M
17aa 3901 GeForce 610M / GT 620M
17aa 3902 GeForce 710M
17aa 3903 GeForce 610M/710M
17aa 3904 GeForce GT 620M/625M
17aa 3905 GeForce GT 720M
17aa 3907 GeForce 820M
17aa 3910 GeForce 720M
17aa 3912 GeForce 720M
17aa 3913 GeForce 820M

17aa 3915 GeForce 820M
17aa 3977 GeForce GT 720M
17aa 3983 GeForce 610M
17aa 5001 GeForce 610M
17aa 5003 GeForce GT 720M
17aa 5005 GeForce 705M
17aa 500d GeForce GT 620M
17aa 5014 GeForce 710M
17aa 5017 GeForce 710M
17aa 5019 GeForce 710M
17aa 501a GeForce 710M
17aa 501f GeForce GT 720M
17aa 5025 GeForce 710M
17aa
5027 GeForce 710M
17aa 502a GeForce 710M
17aa 502b GeForce GT 720M
17aa 502d GeForce 710M
17aa 502e GeForce GT 720M
17aa 502f GeForce GT 720M
17aa 5030 GeForce 705M
17aa 5031 GeForce 705M
17aa 5032 GeForce 820M
17aa 5033 GeForce 820M
17aa 503e GeForce 710M
17aa 503f GeForce 820M
17aa 5040 GeForce 820M
1854 0177 GeForce 710M
1854 0180 GeForce 710M
1854 0190 GeForce GT 720M
1854 0192 GeForce GT 720M
1854 0224 GeForce 820M
1b0a 01c0 GeForce 820M
1b0a 20dd GeForce GT 620M
1b0a 20df GeForce GT 620M
1b0a 210e GeForce 820M
1b0a 2202 GeForce GT 720M
1b0a 90d7 GeForce 820M
1b0a 90dd GeForce 820M
1b50 5530 GeForce 820M
1b6c 5531 GeForce GT 720M
1bab 0106 GeForce 820M
1d05 1013 GeForce 810M
1180 GK104 [GeForce GTX 680]
1043 83f1 GTX680-DC2-2GD5
3842 3682 GeForce GTX 680 Mac Edition
1182 GK104 [GeForce GTX 760 Ti]
1183 GK104 [GeForce GTX 660 Ti]

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1184  GK104 [GeForce GTX 770]
1185  GK104 [GeForce
GTX 660 OEM]
 10de 106f  GK104 [GeForce GTX 760 OEM]
1187  GK104 [GeForce GTX 760]
1188  GK104 [GeForce GTX 690]
1189  GK104 [GeForce GTX 670]
 10de 1074  GK104 [GeForce GTX 760 Ti OEM]
118a  GK104GL [GRID K520]
118b  GK104GL [GRID K2 GeForce USM]
118c  GK104 [GRID K2 NVS USM]
# GRID K2 USM
118d  GK104GL [GRID K200 vGPU]
 10de 101d  GRID K200
118e  GK104 [GeForce GTX 760 OEM]
118f  GK104GL [Tesla K10]
1191  GK104 [GeForce GTX 760 Rev. 2]
1193  GK104 [GeForce GTX 760 Ti OEM]
1194  GK104GL [Tesla K8]
1195  GK104 [GeForce GTX 660 Rev. 2]
1198  GK104M [GeForce GTX 880M]
1199  GK104M [GeForce GTX 870M]
119a  GK104M [GeForce GTX 860M]
119d  GK104M [GeForce GTX 775M Mac Edition]
119e  GK104M [GeForce GTX 780M Mac Edition]
119f  GK104M [GeForce GTX 780M]
11a0  GK104M [GeForce GTX 680M]
11a1  GK104M [GeForce GTX 670MX]
11a2  GK104M [GeForce GTX 675MX Mac Edition]
11a3  GK104M [GeForce GTX 680MX]
 106b 010d  iMac 13,2
11a7  GK104M [GeForce GTX 675MX]
11af  GK104GLM
[GRID IceCube]
11b0  GK104GL [GRID K240Q / K260Q vGPU]
 10de 101a  GRID K240Q
 10de 101b  GRID K260Q
11b1  GK104GL [GRID K2 Tesla USM]
11b4  GK104GL [Quadro K4200]
11b6  GK104GLM [Quadro K3100M]
11b7  GK104GLM [Quadro K4100M]
11b8  GK104GLM [Quadro K5100M]
11b9  GK104GLM
11ba  GK104GL [Quadro K5000]
11bb  GK104GL [Quadro 4100]
11bc  GK104GLM [Quadro K5000M]
11bd  GK104GLM [Quadro K4000M]
11be  GK104GLM [Quadro K3000M]
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11bf  GK104GL [GRID K2]
11c0  GK106 [GeForce GTX 660]
11c2  GK106 [GeForce GTX 650 Ti Boost]
 1043 845b  GeForce GTX 650 Ti Boost DirectCU II OC
 1462 2874  GeForce GTX 650 Ti Boost TwinFrozr II OC
 1569 11c2  GeForce GTX 650 Ti Boost OC
 19da 1281  GeForce GTX 650 Ti Boost OC
 3842 3657  GeForce GTX 650 Ti Boost
 3842 3658  GeForce GTX 650 Ti Boost Superclocked
11c3  GK106 [GeForce GTX 650 Ti OEM]
 10de 1030  GeForce GTX 650 Ti OEM
11c4  GK106 [GeForce GTX 645 OEM]
11c5  GK106 [GeForce GT 740]
11c6  GK106 [GeForce GTX 650 Ti]
11c7  GK106 [GeForce
GTX 750 Ti]
11c8  GK106 [GeForce GTX 650 OEM]
11cb  GK106 [GeForce GT 740]
11e0  GK106M [GeForce GTX 770M]
11e1  GK106M [GeForce GTX 765M]
11e2  GK106M [GeForce GTX 765M]
11e3  GK106M [GeForce GTX 760M]
 17aa 3683  GeForce GTX 760A
11e7  GK106M
11fa  GK106GL [Quadro K4000]
11fc  GK106GLM [Quadro K2100M]
1200  GF114 [GeForce GTX 560 Ti]
1201  GF114 [GeForce GTX 560]
1202  GF114 [GeForce GTX 560 Ti OEM]
1203  GF114 [GeForce GTX 460 SE v2]
1205  GF114 [GeForce GTX 460 v2]
1206  GF114 [GeForce GTX 555]
1207  GF114 [GeForce GT 645 OEM]
1208  GF114 [GeForce GTX 560 SE]
1210  GF114M [GeForce GTX 570M]
1211  GF114M [GeForce GTX 580M]
1212  GF114M [GeForce GTX 675M]
1213  GF114M [GeForce GTX 670M]
1241  GF116 [GeForce GT 545 OEM]
1243  GF116 [GeForce GT 545]
1244  GF116 [GeForce GTX 550 Ti]
1245  GF116 [GeForce GTS 450 Rev. 2]
1246  GF116M [GeForce GT 550M]
1247  GF116M [GeForce GT 555M/635M]
 1043 1752  GeForce GT 555M
 1043 2050  GeForce GT 555M
 1043 2051
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GeForce GT 555M
1043 212a GeForce GT 635M
1043 212b GeForce GT 635M
1043 212c GeForce GT 635M
152d 0930 GeForce GT 635M
1248 GF116M [GeForce GT 555M/635M]
152d 0930 GeForce GT 635M
17c0 10e7 GeForce GT 555M
17c0 10e8 GeForce GT 555M
17c0 10ea GeForce GT 555M
1854 0890 GeForce GT 555M
1854 0891 GeForce GT 555M
1854 1795 GeForce GT 555M
1854 1796 GeForce GT 555M
1854 3005 GeForce GT 555M
1249 GF116 [GeForce GTS 450 Rev. 3]
124b GF116 [GeForce GT 640 OEM]
124d GF116M [GeForce GT 555M/635M]
1028 0491 GeForce GT 555M
1028 0570 GeForce GT 555M
1028 0571 GeForce GT 555M
1462 108d GeForce GT 555M
1462 10cc GeForce GT 635M
1251 GF116M [GeForce GT 560M]
1280 GK208 [GeForce GT 635]
1281 GK208 [GeForce GT 710]
1282 GK208 [GeForce GT 640 Rev. 2]
1284 GK208 [GeForce GT 630 Rev. 2]
1286 GK208 [GeForce GT 720]
1287 GK208B [GeForce GT 730]
1288 GK208B [GeForce GT 720]
1289 GK208 [GeForce GT 710]
128b GK208B [GeForce GT
710]
1043 85f7 GT710-SL-1GD5
1290 GK208M [GeForce GT 730M]
103c 2afa GeForce GT 730A
103c 2b04 GeForce GT 730A
1043 13ad GeForce GT 730M
1043 13cd GeForce GT 730M
1291 GK208M [GeForce GT 735M]
1292 GK208M [GeForce GT 740M]
17aa 3675 GeForce GT 740A
17aa 367c GeForce GT 740A
17aa 3684 GeForce GT 740A
1293 GK208M [GeForce GT 730M]
1294 GK208M [GeForce GT 740M]
1295 GK208M [GeForce 710M]

103c 2b0d GeForce 710A
103c 2b0f GeForce 710A
103c 2b11 GeForce 710A
103c 2b20 GeForce 810A
103c 2b21 GeForce 810A
103c 2b22 GeForce 810A
17aa 367a GeForce 805A
17aa 367c GeForce 710A
1296 GK208M [GeForce 825M]
1298 GK208M [GeForce GT 720M]
1299 GK208BM [GeForce 920M]
17aa 30bb GeForce 920A
17aa 30df GeForce 920A
17aa 36a7 GeForce 920A
17aa 36af GeForce 920M
129a GK208BM [GeForce 910M]
12a0 GK208
12b9 GK208GLM [Quadro K610M]
12ba GK208GLM [Quadro K510M]
1340 GM108M [GeForce 830M]
103c 2b2b GeForce 830A
1341 GM108M
[GeForce 840M]
17aa 3697 GeForce 840A
17aa 3699 GeForce 840A
17aa 369c GeForce 840A
1344 GM108M [GeForce 845M]
1346 GM108M [GeForce 930M]
1347 GM108M [GeForce 940M]
1348 GM108M [GeForce 945M / 945A]
1349 GM108M [GeForce 930M]
134b GM108M [GeForce 940MX]
134d GM108M [GeForce 940MX]
17aa 2248 ThinkPad T570
134e GM108M [GeForce 930MX]
134f GM108M [GeForce 920MX]
137a GM108GLM [Quadro K620M / Quadro M500M]
17aa 505a Quadro M500M
137b GM108GLM [Quadro M520 Mobile]
137d GM108M [GeForce 940A]
1380 GM107 [GeForce GTX 750 Ti]
1381 GM107 [GeForce GTX 750]
1382 GM107 [GeForce GTX 745]
1389 GM107GL [GRID M30]
1390 GM107M [GeForce 845M]
1391 GM107M [GeForce GTX 850M]
17aa 3697 GeForce GTX 850A
17aa a125 GeForce GTX 850A

1392 GM107M [GeForce GTX 860M]
1393 GM107M [GeForce 840M]
1398 GM107M [GeForce 845M]
1399 GM107M [GeForce 945M]
139a GM107M [GeForce GTX 950M]
 17aa 362c GeForce GTX 950A
 17aa 362f GeForce GTX 950A
 17aa 363f
 GeForce GTX 950A
 17aa 3640 GeForce GTX 950A
 17aa 3647 GeForce GTX 950A
 17aa 36b9 GeForce GTX 950A
139b GM107M [GeForce GTX 960M]
 1028 06e4 XPS 15 9550
 103c 2b4c GeForce GTX 960A
139c GM107M [GeForce 940M]
139d GM107M [GeForce GTX 750 Ti]
13b0 GM107GLM [Quadro M2000M]
13b1 GM107GLM [Quadro M1000M]
13b2 GM107GLM [Quadro M600M]
13b3 GM107GLM [Quadro K2200M]
13b4 GM107GLM [Quadro M620 Mobile]
13b6 GM107GLM [Quadro M1200 Mobile]
13b9 GM107GL [NVS 810]
13ba GM107GL [Quadro K2200]
13bb GM107GL [Quadro K620]
13bc GM107GL [Quadro K1200]
13bd GM107GL [Tesla M10]
 10de 110a GRID M40
 10de 1160 Tesla M10
 10de 11d2 GRID M10-8Q
13c0 GM204 [GeForce GTX 980]
 1043 8504 GTX980-4GD5
13c1 GM204
13c2 GM204 [GeForce GTX 970]
13c3 GM204
13d7 GM204M [GeForce GTX 980M]
13d8 GM204M [GeForce GTX 970M]
13d9 GM204M [GeForce GTX 965M]
13da GM204M [GeForce GTX 980 Mobile]
13e7 GM204GL [GeForce GTX 980 Engineering Sample]
13f0 GM204GL [Quadro
M5000]
13f1 GM204GL [Quadro M4000]
13f2 GM204GL [Tesla M60]
 10de 114d GRID M60-1Q
 10de 114e GRID M60-2Q
 10de 1150 GRID M60-8Q

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 10de 11b0  GRID M60-4A
13f3  GM204GL [Tesla M6]
 10de 1184  GRID M6-8Q
13f8  GM204GLM [Quadro M5000M / M5000 SE]
13f9  GM204GLM [Quadro M4000M]
13fa  GM204GLM [Quadro M3000M]
 10de 11c9  Quadro M3000 SE
13fb  GM204GLM [Quadro M5500]
1401  GM206 [GeForce GTX 960]
1402  GM206 [GeForce GTX 950]
1406  GM206 [GeForce GTX 960 OEM]
1407  GM206 [GeForce GTX 750 v2]
1427  GM206M [GeForce GTX 965M]
 103c 825b  OMEN-17-w001nv
1430  GM206GL [Quadro M2000]
1431  GM206GL [Tesla M4]
1436  GM206GLM [Quadro M2200 Mobile]
15f0  GP100GL [Quadro GP100]
15f1  GP100GL
15f7  GP100GL [Tesla P100 PCIe 12GB]
15f8  GP100GL [Tesla P100 PCIe 16GB]
15f9  GP100GL [Tesla P100 SXM2 16GB]
1617  GM204M [GeForce GTX 980M]
1618  GM204M [GeForce GTX 970M]
1619  GM204M [GeForce GTX 965M]
161a  GM204M [GeForce GTX 980 Mobile]
1667  GM204M [GeForce GTX 965M]
1725
 GP100
172e  GP100
172f  GP100
174d  GM108M [GeForce MX130]
174e  GM108M [GeForce MX110]
1789  GM107GL [GRID M3-3020]
179c  GM107 [GeForce 940MX]
 1025 1094  Acer Aspire E5-575G
17c2  GM200 [GeForce GTX TITAN X]
17c8  GM200 [GeForce GTX 980 Ti]
17f0  GM200GL [Quadro M6000]
 10de 1141  VCA 6000
17f1  GM200GL [Quadro M6000 24GB]
17fd  GM200GL [Tesla M40]
1ad6  TU102 USB 3.1 Host Controller
1ad7  TU102 USB Type-C UCSI Controller
1ad8  TU104 USB 3.1 Host Controller
1ad9  TU104 USB Type-C UCSI Controller
1ada  TU106 USB 3.1 Host Controller
 1043 8673  TURBO-RTX2070-8G
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1adb TU106 USB Type-C UCSI Controller
 1043 8673 TURBO-RTX2070-8G
1aeb TU116 High Definition Audio Controller
1aec TU116 USB 3.1 Host Controller
1aed TU116 [GeForce GTX 1650 SUPER]
1b00 GP102 [TITAN X]
1b01 GP102 [GeForce GTX 1080 Ti 10GB]
1b02 GP102 [TITAN Xp]
1b04 GP102
1b06 GP102 [GeForce GTX 1080 Ti]
1b07 GP102 [P102-100]
1b30 GP102GL [Quadro P6000]
1b38 GP102GL [Tesla P40]
1b70
 GP102GL
1b78 GP102GL
1b80 GP104 [GeForce GTX 1080]
1b81 GP104 [GeForce GTX 1070]
1b82 GP104 [GeForce GTX 1070 Ti]
1b83 GP104 [GeForce GTX 1060 6GB]
1b84 GP104 [GeForce GTX 1060 3GB]
1b87 GP104 [P104-100]
1ba0 GP104M [GeForce GTX 1080 Mobile]
1ba1 GP104M [GeForce GTX 1070 Mobile]
 1458 1651 GeForce GTX 1070 Max-Q
 1462 11e8 GeForce GTX 1070 Max-Q
 1462 11e9 GeForce GTX 1070 Max-Q
 1558 9501 GeForce GTX 1070 Max-Q
1ba2 GP104M [GeForce GTX 1070 Mobile]
1ba9 GP104M
1baa GP104M
1bad GP104 [GeForce GTX 1070 Engineering Sample]
1bb0 GP104GL [Quadro P5000]
1bb1 GP104GL [Quadro P4000]
1bb3 GP104GL [Tesla P4]
1bb4 GP104GL [Tesla P6]
1bb5 GP104GLM [Quadro P5200 Mobile]
 103c 842f P5200 [Zbook 17 G5 mobile workstation]
1bb6 GP104GLM [Quadro P5000 Mobile]
1bb7 GP104GLM [Quadro P4000 Mobile]
 1462 11e9 Quadro P4000 Max-Q
1bb8 GP104GLM [Quadro P3000 Mobile]
1bb9 GP104GLM [Quadro P4200 Mobile]
 103c 842f P4200 [Zbook 17 G5 mobile workstation]
1bbb
 GP104GLM [Quadro P3200 Mobile]
 103c 842f P3200 [Zbook 17 G5 moble workstation]
1bc7 GP104 [P104-101]

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1be0  GP104BM [GeForce GTX 1080 Mobile]
 1028 07c0  GeForce GTX 1080 Max-Q
 1458 355b  GeForce GTX 1080 Max-Q
1be1  GP104BM [GeForce GTX 1070 Mobile]
1c00  GP106
1c01  GP106
1c02  GP106 [GeForce GTX 1060 3GB]
1c03  GP106 [GeForce GTX 1060 6GB]
1c04  GP106 [GeForce GTX 1060 5GB]
1c06  GP106 [GeForce GTX 1060 6GB Rev. 2]
1c07  GP106 [P106-100]
1c09  GP106 [P106-090]
1c20  GP106M [GeForce GTX 1060 Mobile]
 17aa 39b9  GeForce GTX 1060 Max-Q 3GB
1c21  GP106M [GeForce GTX 1050 Ti Mobile]
1c22  GP106M [GeForce GTX 1050 Mobile]
1c23  GP106M [GeForce GTX 1060 Mobile Rev. 2]
 1414 0020  GTX 1060 Mobile
1c2d  GP106M
1c30  GP106GL [Quadro P2000]
1c31  GP106GL [Quadro P2200]
1c35  GP106
1c60  GP106BM [GeForce GTX 1060 Mobile 6GB]
 103c 8390  GeForce GTX 1060 Max-Q 6GB
1c61  GP106BM [GeForce GTX 1050 Ti Mobile]
1c62  GP106BM [GeForce GTX 1050 Mobile]
1c70
 GP106GL
1c81  GP107 [GeForce GTX 1050]
1c82  GP107 [GeForce GTX 1050 Ti]
 1043 8613  PH-GTX1050TI-4G
 1458 3763  GV-N105TOC-4GD
1c83  GP107 [GeForce GTX 1050 3GB]
1c8c  GP107M [GeForce GTX 1050 Ti Mobile]
1c8d  GP107M [GeForce GTX 1050 Mobile]
1c8e  GP107M
1c8f  GP107M [GeForce GTX 1050 Ti Max-Q]
1c90  GP107M [GeForce MX150]
1c91  GP107M [GeForce GTX 1050 3 GB Max-Q]
1c92  GP107M [GeForce GTX 1050 Mobile]
1c94  GP107M [GeForce MX350]
1c96  GP107M [GeForce MX350]
1ca7  GP107GL
1ca8  GP107GL
1caa  GP107GL
1cb1  GP107GL [Quadro P1000]
1cb2  GP107GL [Quadro P600]
1cb3  GP107GL [Quadro P400]
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1cb6 GP107GL [Quadro P620]
1cba GP107GLM [Quadro P2000 Mobile]
 103c 842c P2000 [Zbook 15 G5 mobile workstation]
 103c 842f P2000 [Zbook 17 G5 mobile workstation]
1cbb GP107GLM [Quadro P1000 Mobile]
 103c 8429 P1000 [Zbook Studio G5 mobile workstation]
 103c 842c P1000 [Zbook 15 G5 mobile workstation]
 103c 842f P1000 [Zbook 17 G5 mobile workstation]
 103c 8451 P1000
[Zbook Studio x360 G5 mobile workstation]
1cbc GP107GLM [Quadro P600 Mobile]
1cbd GP107GLM [Quadro P620]
1ccc GP107BM [GeForce GTX 1050 Ti Mobile]
1ccd GP107BM [GeForce GTX 1050 Mobile]
1cfa GP107GL [Quadro P2000]
1cfb GP107GL [Quadro P1000]
1d01 GP108 [GeForce GT 1030]
1d10 GP108M [GeForce MX150]
 17aa 225e ThinkPad T480
1d11 GP108M [GeForce MX230]
1d12 GP108M [GeForce MX150]
 1d72 1701 Mi Notebook Pro [GeForce MX150]
1d13 GP108M [GeForce MX250]
1d16 GP108M [GeForce MX330]
1d33 GP108GLM [Quadro P500 Mobile]
1d34 GP108GLM [Quadro P520]
1d52 GP108BM [GeForce MX250]
1d81 GV100 [TITAN V]
1db1 GV100GL [Tesla V100 SXM2 16GB]
1db2 GV100GL [Tesla V100 DGXS 16GB]
1db3 GV100GL [Tesla V100 FHHL 16GB]
1db4 GV100GL [Tesla V100 PCIe 16GB]
1db5 GV100GL [Tesla V100 SXM2 32GB]
1db6 GV100GL [Tesla V100 PCIe 32GB]
1db7 GV100GL [Tesla V100 DGXS 32GB]
1db8 GV100GL [Tesla V100 SXM3 32GB]
 10de 131d Tesla V100-SXM3-32GB-H
1dba GV100GL [Quadro GV100]
 10de
12eb TITAN V CEO Edition
1df0 GV100GL [Tesla PG500-216]
1df2 GV100GL [Tesla PG503-216]
1df5 GV100GL [Tesla V100 SXM2 16GB]
1df6 GV100GL [Tesla V100S PCIe 32GB]
1e02 TU102 [TITAN RTX]
1e04 TU102 [GeForce RTX 2080 Ti]
1e07 TU102 [GeForce RTX 2080 Ti Rev. A]
 1462 3715 RTX 2080 Ti GAMING X TRIO

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1e2d  TU102B
1e2e  TU102B
1e30  TU102GL [Quadro RTX 6000/8000]
 10de 129e  Quadro RTX 8000
 10de 12ba  Quadro RTX 6000
1e36  TU102GL
1e37  TU102GL [GRID RTX T10-4/T10-8/T10-16]
 10de 1347  GRID RTX T10-8
 10de 1348  GRID RTX T10-4
 10de 1370  GRID RTX T10-16
1e38  TU102GL
1e3c  TU102GL
1e3d  TU102GL
1e3e  TU102GL
1e78  TU102GL [Quadro RTX 6000/8000]
 10de 13d8  Quadro RTX 8000
 10de 13d9  Quadro RTX 6000
1e81  TU104 [GeForce RTX 2080 SUPER]
1e82  TU104 [GeForce RTX 2080]
1e84  TU104 [GeForce RTX 2070 SUPER]
1e87  TU104 [GeForce RTX 2080 Rev. A]
1e89  TU104 [GeForce RTX 2060]
1e90  TU104M [GeForce RTX 2080 Mobile]
1eab  TU104M
1eae  TU104M
1eb0  TU104GL
[Quadro RTX 5000]
1eb1  TU104GL [Quadro RTX 4000]
1eb5  TU104GLM [Quadro RTX 5000 Mobile / Max-Q]
1eb6  TU104GLM [Quadro RTX 4000 Mobile / Max-Q]
1eb8  TU104GL [Tesla T4]
1eb9  TU104GL
1ebe  TU104GL
1ec2  TU104 [GeForce RTX 2070 SUPER]
1ec7  TU104 [GeForce RTX 2070 SUPER]
1ed0  TU104BM [GeForce RTX 2080 Mobile]
1f02  TU106 [GeForce RTX 2070]
 1043 8673  TURBO RTX 2070
1f04  TU106
1f06  TU106 [GeForce RTX 2060 SUPER]
1f07  TU106 [GeForce RTX 2070 Rev. A]
1f08  TU106 [GeForce RTX 2060 Rev. A]
1f09  TU106 [GeForce GTX 1660 SUPER]
1f10  TU106M [GeForce RTX 2070 Mobile]
1f11  TU106M [GeForce RTX 2060 Mobile]
1f12  TU106 [GeForce RTX 2060]
1f15  TU106 [GeForce RTX 2060]
1f2e  TU106M
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1f36  TU106GLM [Quadro RTX 3000 Mobile / Max-Q]
1f42  TU106 [GeForce RTX 2060 SUPER]
1f47  TU106 [GeForce RTX 2060 SUPER]
1f50  TU106BM [GeForce RTX 2070 Mobile]
1f51  TU106BM [GeForce RTX 2060 Mobile]
1f81  TU117
1f82  TU117 [GeForce GTX 1650]
1f91  TU117M [GeForce GTX 1650 Mobile
/ Max-Q]
1f92  TU117M [GeForce GTX 1650 Mobile]
1f96  TU117M [GeForce GTX 1650 Mobile / Max-Q]
1fae  TU117GL
1fb8  TU117GLM [Quadro T2000 Mobile / Max-Q]
1fb9  TU117GLM [Quadro T1000 Mobile]
1fbf  TU117GL
2182  TU116 [GeForce GTX 1660 Ti]
2183  TU116
2184  TU116 [GeForce GTX 1660]
2187  TU116 [GeForce GTX 1650 SUPER]
2191  TU116M [GeForce GTX 1660 Ti Mobile]
21ae  TU116GL
21bf  TU116GL
21c4  TU116 [GeForce GTX 1660 SUPER]
21d1  TU116BM [GeForce GTX 1660 Ti Mobile]
10df  Emulex Corporation
0720  OneConnect NIC (Skyhawk)
 103c 1934  FlexFabric 20Gb 2-port 650M Adapter
 103c 1935  FlexFabric 20Gb 2-port 650FLB Adapter
 103c 21d4  StoreFabric CN1200E 10Gb Converged Network Adapter
 103c 220a  FlexFabric 10Gb 2-port 556FLR-SFP+ Adapter
 103c 803f  Ethernet 10Gb 2-port 557SFP+ Adapter
 103c 8144  FlexFabric 10GB 2-port 556FLR-T Adapter
 17aa 1056  ThinkServer OCm14102-UX-L AnyFabric
 17aa 1057  ThinkServer OCm14104-UX-L AnyFabric
 17aa 1059  ThinkServer OCm14104-UT-L
AnyFabric
 17aa 4014  ThinkServer OCm14102-NX-L AnyFabric
0722  OneConnect iSCSI Initiator (Skyhawk)
0723  OneConnect iSCSI Initiator + Target (Skyhawk)
0724  OneConnect FCoE Initiator (Skyhawk)
0728  OneConnect NIC (Skyhawk-VF)
072a  OneConnect iSCSI Initiator (Skyhawk-VF)
072b  OneConnect iSCSI Initiator + Target (Skyhawk-VF)
072c  OneConnect FCoE Initiator (Skyhawk-VF)
1ae5  LP6000 Fibre Channel Host Adapter
e100  Proteus-X: LightPulse IOV Fibre Channel Host Adapter
e131  LightPulse 8Gb/s PCIe Shared I/O Fibre Channel Adapter
e180  Proteus-X: LightPulse IOV Fibre Channel Host Adapter
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e200 LPe15000/LPe16000 Series 8Gb/16Gb Fibre Channel Adapter
 1014 03f1 PCIe2 2-Port 16Gb Fibre Channel Adapter for POWER (FC EL5B; CCIN 577F)
 1014 04e3 PCIe3 4-Port 10GbE SR Adapter for POWER (FC EN15/EN16; CCIN 2CE3)
 1014 04e4 PCIe3 4-Port 10GbE SFP+ Adapter for POWER (FC EN18; CCIN 2CE4)
 10df e280 LPe16002B-M6 2-Port 16Gb Fibre Channel Adapter
 10df e281 LPe16000B-M6 1-Port
16Gb Fibre Channel Adapter
 10df e282 Flex System FC5054 4-port 16Gb FC Adapter
e208 LightPulse 16Gb Fibre Channel Host Adapter (Lancer-VF)
e220 OneConnect NIC (Lancer)
 17aa 1054 ThinkServer LPm16002B-M6-L AnyFabric
 17aa 1055 ThinkServer LPm16004B-M8-L AnyFabric
e240 OneConnect iSCSI Initiator (Lancer)
e260 OneConnect FCoE Initiator (Lancer)
e268 OneConnect 10Gb FCoE Converged Network Adapter (Lancer-VF)
e300 LPe31000/LPe32000 Series 16Gb/32Gb Fibre Channel Adapter
 1014 0614 PCIe3 4-Port 16Gb Fibre Channel Adapter for POWER (FC EN1C/EN1D; CCIN 578E)
 1014 0615 PCIe3 2-Port 32Gb Fibre Channel Adapter for POWER (FC EN1A/EN1B; CCIN 578F)
 10df e300 LPe32002-M2 2-Port 32Gb Fibre Channel Adapter
 10df e301 LPe32000-M2 1-Port 32Gb Fibre Channel Adapter
 10df e310 LPe31002-M6 2-Port 16Gb Fibre Channel Adapter
 10df e311 LPe31000-M6 1-Port 16Gb Fibre Channel Adapter
 10df e312 LPe31004-M6 4-Port 16Gb Fibre Channel Adapter
 10df e320 LPe32002-M2-D 2-Port
32Gb Fibre Channel Adapter
 10df e321 LPe32000-M2-D 1-Port 32Gb Fibre Channel Adapter
 10df e322 LPe31002-M6-D 2-Port 16Gb Fibre Channel Adapter
 10df e323 LPe31000-M6-D 1-Port 16Gb Fibre Channel Adapter
 10df e324 LPm32002-D 2-Port 32Gb Fibre Channel Mezz Card
 10df e325 LPm31002-D 2-Port 16Gb Fibre Channel Mezz Card
 10df e330 LPe32002-M2-L 2-Port 32Gb PCIe Fibre Channel Adapter
 10df e331 LPe32000-M2-L 1-Port 32Gb PCIe Fibre Channel Adapter
 10df e332 LPe31002-M6-L 2-Port 16Gb PCIe Fibre Channel Adapter
 10df e333 LPe31000-M6-L 1-Port 16Gb PCIe Fibre Channel Adapter
 1590 0201 StoreFabric SN1600E 1-Port 32Gb Fibre Channel Adapter
 1590 0202 StoreFabric SN1600E 2-Port 32Gb Fibre Channel Adapter
 1590 0213 StoreFabric SN1200E 1-Port 16Gb Fibre Channel Adapter
 1590 0214 StoreFabric SN1200E 2-Port 16Gb Fibre Channel Adapter
 1590 022e Synergy 5330C 2-Port 32Gb Fibre Channel Mezz Card
f011 Saturn: LightPulse Fibre Channel Host Adapter
f015 Saturn: LightPulse
Fibre Channel Host Adapter
f085 LP850 Fibre Channel Host Adapter
f095 LP952 Fibre Channel Host Adapter
f098 LP982 Fibre Channel Host Adapter
f0a1 Thor LightPulse Fibre Channel Host Adapter
f0a5 Thor LightPulse Fibre Channel Host Adapter
f0b5 Viper LightPulse Fibre Channel Host Adapter

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f0d1  Helios LightPulse Fibre Channel Host Adapter
f0d5  Helios LightPulse Fibre Channel Host Adapter
f0e1  Zephyr LightPulse Fibre Channel Host Adapter
f0e5  Zephyr LightPulse Fibre Channel Host Adapter
f0f5  Neptune LightPulse Fibre Channel Host Adapter
f100  LPe12000 Series 8Gb Fibre Channel Adapter
 1014 038a  8Gb PCI Express Dual Port FC Adapter for POWER
 103c 3282  8Gb Dual-port PCI-e FC HBA
 10df f140  LPe12000-M8-L 1-Port 8Gb PCIe Fibre Channel Adapter
 10df f141  LPe12002-M8-L 2-Port 8Gb PCIe Fibre Channel Adapter
f111  Saturn-X LightPulse Fibre Channel Host Adapter
f112  Saturn-X LightPulse Fibre Channel Host Adapter
f180  LPSe12002 EmulexSecure Fibre Channel Adapter
f400
 LPe35000/LPe36000 Series 32Gb/64Gb Fibre Channel Adapter
 10df f401  LPe35000-M2 1-Port 32Gb Fibre Channel Adapter
 10df f402  LPe35002-M2 2-Port 32Gb Fibre Channel Adapter
 10df f403  LPe36000-M64 1-Port 64Gb Fibre Channel Adapter
 10df f404  LPe36002-M64 2-Port 64Gb Fibre Channel Adapter
 10df f405  LPe35004-M2 4-Port 32Gb Fibre Channel Adapter
 10df f406  LPe35004-X6 4-Port Fibre Channel Adapter
 10df f410  LPe35002-M2-D 2-Port 32Gb Fibre Channel Adapter
 10df f411  LPe35000-M2-D 1-Port 32Gb Fibre Channel Adapter
 10df f418  LPe35000-M2-L 1-Port 32Gb PCIe Fibre Channel Adapter
 10df f419  LPe35002-M2-L 2-Port 32Gb PCIe Fibre Channel Adapter
 1590 02d5  StoreFabric SN1610E 1-Port 32Gb Fibre Channel Adapter
 1590 02d6  StoreFabric SN1610E 2-Port 32Gb Fibre Channel Adapter
f700  LP7000 Fibre Channel Host Adapter
f701  LP7000 Fibre Channel Host Adapter Alternate ID (JX1:2-3, JX2:1-2)
f800  LP8000 Fibre Channel Host Adapter
f801  LP8000 Fibre Channel Host Adapter
Alternate ID (JX1:2-3, JX2:1-2)
f900  LP9000 Fibre Channel Host Adapter
f901  LP9000 Fibre Channel Host Adapter Alternate ID (JX1:2-3, JX2:1-2)
f980  LP9802 Fibre Channel Host Adapter
f981  LP9802 Fibre Channel Host Adapter Alternate ID
f982  LP9802 Fibre Channel Host Adapter Alternate ID
fa00  Thor-X LightPulse Fibre Channel Host Adapter
fb00  Viper LightPulse Fibre Channel Host Adapter
fc00  Thor-X LightPulse Fibre Channel Host Adapter
 10df fc00  LP10000 LightPulse Fibre Channel Host Adapter
fc10  Helios-X LightPulse Fibre Channel Host Adapter
fc20  Zephyr-X LightPulse Fibre Channel Host Adapter
fc40  Saturn-X: LightPulse Fibre Channel Host Adapter
fc50  Proteus-X: LightPulse IOV Fibre Channel Host Adapter
fd00  Helios-X LightPulse Fibre Channel Host Adapter
# Also IBM FC 5759 / FC 1910 for POWER
 10df fd02  LightPulse LP11002 Dual-port 4Gigabit PCI Fibre Channel Adapter
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fd11 Helios-X LightPulse Fibre Channel Host Adapter
fd12 Helios-X LightPulse Fibre Channel
Host Adapter
fe00 Zephyr-X LightPulse Fibre Channel Host Adapter
fe05 Zephyr-X: LightPulse FCoE Adapter
fe11 Zephyr-X LightPulse Fibre Channel Host Adapter
fe12 Zephyr-X LightPulse FCoE Adapter
ff00 Neptune LightPulse Fibre Channel Host Adapter
10e0 Integrated Micro Solutions Inc.
5026 IMS5026/27/28
5027 IMS5027
5028 IMS5028
8849 IMS8849
8853 IMS8853
9128 IMS9128 [Twin turbo 128]
10e1 Tekram Technology Co.,Ltd.
0391 TRM-S1040
10e1 0391 DC-315U SCSI-3 Host Adapter
690c DC-690c
dc29 DC-290
10e2 Aptix Corporation
10e3 Tundra Semiconductor Corp.
0000 CA91C042 [Universe]
0108 Tsi108 Host Bridge for Single PowerPC
0148 Tsi148 [Tempe]
1775 1100 VR11 Single Board Computer
0860 CA91C860 [QSpan]
0862 CA91C862A [QSpan-II]
8111 Tsi381 PCIe to PCI Bridge
8260 CA91L8200B [Dual PCI PowerSpan II]
8261 CA91L8260B [Single PCI PowerSpan II]
a108 Tsi109 Host Bridge for Dual PowerPC
10e4 Tandem Computers
8029 Realtek 8029 Network Card
10e5 Micro Industries
Corporation
10e6 Gainbery Computer Products Inc.
10e7 Vadem
10e8 Applied Micro Circuits Corp.
1072 INES GPIB-PCI (AMCC5920 based)
2011 Q-Motion Video Capture/Edit board
4750 S5930 [Matchmaker]
5920 S5920
8043 LANai4.x [Myrinet LANai interface chip]
8062 S5933_PARASTATION
807d S5933 [Matchmaker]
8088 Kongsberg Spacetec Format Synchronizer
8089 Kongsberg Spacetec Serial Output Board

809c S5933_HEPC3
80b9 Harmonix Hi-Card P8 (4x active ISDN BRI)
80d7 PCI-9112
80d8 PCI-7200
80d9 PCI-9118
80da PCI-9812
80fc APCI1500 Signal processing controller (16 dig. inputs + 16 dig. outputs)
811a PCI-IEEE1355-DS-DE Interface
814c Fastcom ESCC-PCI (Commtech, Inc.)
8170 S5933 [Matchmaker] (Chipset Development Tool)
81e6 Multimedia video controller
828d APCI3001 Signal processing controller (up to 16 analog inputs)
8291 Fastcom 232/8-PCI (Commtech, Inc.)
82c4 Fastcom 422/4-PCI (Commtech, Inc.)
82c5 Fastcom 422/2-PCI (Commtech, Inc.)
82c6 Fastcom
IG422/1-PCI (Commtech, Inc.)
82c7 Fastcom IG232/2-PCI (Commtech, Inc.)
82ca Fastcom 232/4-PCI (Commtech, Inc.)
82db AJA HDNTV HD SDI Framestore
82e2 Fastcom DIO24H-PCI (Commtech, Inc.)
8406 PCIcanx/PCIcan CAN interface [Kvaser AB]
8407 PCIcan II CAN interface (A1021, PCB-07, PCB-08) [Kvaser AB]
8851 S5933 on Innes Corp FM Radio Capture card
e004 X-Gene PCIe bridge
10e9 Alps Electric Co., Ltd.
10ea Integraphics
1680 IGA-1680
1682 IGA-1682
1683 IGA-1683
2000 CyberPro 2000
2010 CyberPro 2000A
5000 CyberPro 5000
5050 CyberPro 5050
5202 CyberPro 5202
CyberPro5202 Audio Function
5252 CyberPro5252
10eb Artists Graphics
0101 3GA
8111 Twist3 Frame Grabber
10ec Realtek Semiconductor Co., Ltd.
0139 RTL-8139/8139C/8139C+ Ethernet Controller
5208 RTS5208 PCI Express Card Reader
5209 RTS5209 PCI Express Card Reader
5227 RTS5227 PCI Express Card Reader
17aa 220e ThinkPad T440p
17aa 2214 ThinkPad X240
5229 RTS5229 PCI Express Card Reader

1025
0813 Aspire R7-571
103c 194e ProBook 455 G1 Notebook
103c 1985 Pavilion 17-e163sg Notebook PC
17aa 3832 Yoga 520
522a RTS522A PCI Express Card Reader
103c 8079 EliteBook 840 G3
103c 825b OMEN-17-w001nv
17aa 5124 ThinkPad E595
5249 RTS5249 PCI Express Card Reader
103c 1909 ZBook 15
524a RTS524A PCI Express Card Reader
5250 RTS5250 PCI Express Card Reader
525a RTS525A PCI Express Card Reader
1028 06dc Latitude E7470
1028 06e4 XPS 15 9550
17aa 224f ThinkPad X1 Carbon 5th Gen
5260 RTS5260 PCI Express Card Reader
5286 RTS5286 PCI Express Card Reader
5287 RTL8411B PCI Express Card Reader
1025 1094 Acer Aspire E5-575G
5288 RTS5288 PCI Express Card Reader
5289 RTL8411 PCI Express Card Reader
1043 1457 K55A Laptop
8029 RTL-8029(AS)
10b8 2011 EZ-Card (SMC1208)
10ec 8029 RTL-8029(AS)
1113 1208 EN1208
1186 0300 DE-528
1259 2400 AT-2400
1af4 1100 QEMU Virtual Machine
8125 RTL8125 2.5GbE Controller
8129 RTL-8129
10ec
8129 RT8129 Fast Ethernet Adapter
11ec 8129 RTL8111/8168 PCIe Gigabit Ethernet (misconfigured)
8136 RTL810xE PCI Express Fast Ethernet controller
103c 1985 RTL8106E on Pavilion 17-e163sg Notebook PC
103c 2a8c Compaq 500B Microtower
103c 2ab1 Pavilion p6774
103c 30cc Pavilion dv6700
1179 ff64 RTL8102E PCI-E Fast Ethernet NIC
17c0 1053 RTL8101e Medion WIM 2210 Notebook PC [MD96850]
8137 RTL8104E PCIe Fast Ethernet Controller
8138 RT8139 (B/C) Cardbus Fast Ethernet Adapter
10ec 8138 RT8139 (B/C) Fast Ethernet Adapter
8139 RTL-8100/8101L/8139 PCI Fast Ethernet Adapter
0357 000a TTP-Monitoring Card V2.0

1025 005a TravelMate 290
1025 8920 ALN-325
1025 8921 ALN-325
103c 006a NX9500
103c 2a20 Pavilion t3030.de Desktop PC
103c 30d9 Presario C700
1043 1045 L8400B, L3C/S, X58LE notebook
1043 8109 P5P800-MX Mainboard
1071 8160 MIM2000
10bd 0320 EP-320X-R
10ec 8139 RTL-8100/8101L/8139 PCI Fast Ethernet Adapter
10f7 8338 Panasonic
CF-Y5 laptop
1113 ec01 LevelOne FNC-0107TX/FNC-0109TX
1186 1104 DFE-520TX Fast Ethernet PCI Adapter (rev. D1)
1186 1300 DFE-538TX
1186 1320 SN5200
1186 8139 DRN-32TX
11f6 8139 FN22-3(A) LinxPRO Ethernet Adapter
1259 2500 AT-2500TX
1259 2503 AT-2500TX/ACPI
1385 f31d FA311 v2
1395 2100 AMB2100
1429 d010 ND010/ND012
1432 9130 EN-9130TX
1436 8139 RT8139
144d c00c P30/P35 notebook
1458 e000 GA-7VM400M/7VT600 Motherboard
1462 0131 MS-1013 Notebook
1462 217c Aspire L250
1462 788c 865PE Neo2-V Mainboard
146c 1439 FE-1439TX
1489 6001 GF100TXRII
1489 6002 GF100TXRA
149c 139a LFE-8139ATX
149c 8139 LFE-8139TX
14cb 0200 LNR-100 Family 10/100 Base-TX Ethernet
1565 2300 P4TSV Onboard LAN (RTL8100B)
1631 7003 Onboard RTL8111 on GA-8SIML Rev1.0 Mainboard
1695 9001 Onboard RTL8101L 10/100 MBit
16ec 00ff USR997900A
1799 5000 F5D5000 PCI Card/Desktop Network PCI Card
1799 5010 F5D5010 CardBus Notebook Network
Card
187e 3303 FN312
1904 8139 RTL8139D Fast Ethernet Adapter
1af4 1100 QEMU Virtual Machine
2646 0001 KNE120TX

8e2e 7000 KF-230TX
8e2e 7100 KF-230TX/2
a0a0 0007 ALN-325C
8167 RTL-8110SC/8169SC Gigabit Ethernet
105b 0e10 RTL-8110SC-GR on a N15235/A74MX mainboard
1458 e000 GA-MA69G-S3H Motherboard
1462 235c P965 Neo MS-7235 mainboard
1462 236c 945P Neo3-F motherboard
8168 RTL8111/8168/8411 PCI Express Gigabit Ethernet Controller
1019 8168 RTL8111/8168 PCI Express Gigabit Ethernet controller
1025 1094 Acer Aspire E5-575G
1028 0283 Vostro 220
1028 04b2 Vostro 3350
1028 04da Vostro 3750
1028 06f2 Latitude 3470
1028 06f3 Latitude 3570
103c 1611 Pavilion DM1Z-3000
103c 1950 ProBook 450/455
103c 2a6f Asus IPIBL-LB Motherboard
103c 825b OMEN-17-w001nv
103c 8615 Pavilion Laptop 15-cw1xxx
1043 11f5 Notebook motherboard (one of many models)
1043 16d5 U6V/U31J laptop
1043 81aa P5B
1043 82c6 M3A78 Series Motherboard
1043
83a3 M4A785/P7P55 Motherboard
1043 8432 P8P67 and other motherboards
1043 8505 P8 series motherboard
105b 0d7c D270S/D250S Motherboard
10ec 8168 RTL8111/8168 PCI Express Gigabit Ethernet controller
144d c652 RTL8168 on a NP300E5C series laptop
1458 e000 Onboard Ethernet
1462 238c Onboard RTL8111b on MSI P965 Platinum Mainboard
1462 345c RTL8111B on MS-7345 Motherboard
1462 368c K9AG Neo2
1462 4180 Wind PC MS-7418
1462 7522 X58 Pro-E
1462 7c37 X570-A PRO motherboard
1775 11cc CC11/CL11
17aa 3814 Z50-75
17aa 5124 ThinkPad E595
1849 8168 Motherboard (one of many)
7470 3468 TG-3468 Gigabit PCI Express Network Adapter
8086 2055 NUC Kit DN2820FYKH
8086 d615 Desktop Board D510MO/D525MW
8169 RTL8169 PCI Gigabit Ethernet Controller
1025 0079 Aspire 5024WLMi

10bd 3202 EP-320G-TX1 32-bit PCI Gigabit Ethernet Adapter
10ec 8169 RTL8169/8110 Family PCI Gigabit Ethernet NIC
1259 c107 CG-LAPCIGT
1371 434e ProG-2000L
1385
311a GA311
1385 5200 GA511 Gigabit PC Card
1458 e000 GA-8I915ME-G Mainboard
1462 030c K8N Neo-FSR v2.0 mainboard
1462 065c Hetis 865GV-E (MS-7065)
1462 702c K8T NEO 2 motherboard
1462 7094 K8T Neo2-F V2.0
16ec 011f USR997903
1734 1091 D2030-A1
a0a0 0449 AK86-L motherboard
8171 RTL8191SEvA Wireless LAN Controller
8172 RTL8191SEvB Wireless LAN Controller
8173 RTL8192SE Wireless LAN Controller
8174 RTL8192SE Wireless LAN Controller
8176 RTL8188CE 802.11b/g/n WiFi Adapter
1043 84b5 PCE-N10
1a3b 1139 AW-NE139H Half-size Mini PCIe Card
8177 RTL8191CE PCIe Wireless Network Adapter
8178 RTL8192CE PCIe Wireless Network Adapter
8179 RTL8188EE Wireless Network Adapter
103c 197d RTL8188EE mini-PCIe card
8180 RTL8180L 802.11b MAC
1385 4700 MA521 802.11b Wireless PC Card
1737 0019 WPC11v4 802.11b Wireless-B Notebook Adapter
8185 RTL-8185 IEEE 802.11a/b/g Wireless LAN Controller
818b RTL8192EE PCIe Wireless Network Adapter
8190
RTL8190 802.11n PCI Wireless Network Adapter
8191 RTL8192CE PCIe Wireless Network Adapter
8192 RTL8192E/RTL8192SE Wireless LAN Controller
8193 RTL8192DE Wireless LAN Controller
8196 RTL8196 Integrated PCI-e Bridge
8197 SmartLAN56 56K Modem
8199 RTL8187SE Wireless LAN Controller
1462 6894 MN54G2 / MS-6894 Wireless Mini PCIe Card
8723 RTL8723AE PCIe Wireless Network Adapter
8812 RTL8812AE 802.11ac PCIe Wireless Network Adapter
8813 RTL8813AE 802.11ac PCIe Wireless Network Adapter
8821 RTL8821AE 802.11ac PCIe Wireless Network Adapter
b723 RTL8723BE PCIe Wireless Network Adapter
10ec 8739 Dell Wireless 1801
17aa b736 Z50-75
b822 RTL8822BE 802.11a/b/g/n/ac WiFi adapter

103c 831b Realtek RTL8822BE 802.11ac 2 × 2 Wi-Fi + Bluetooth 4.2 Combo Adapter (MU-MIMO supported)
17aa 5124 ThinkPad E595
17aa b023 ThinkPad E595
c821 RTL8821CE 802.11ac PCIe Wireless Network Adapter
c822 RTL8822CE 802.11ac PCIe Wireless Network Adapter
d723 RTL8723DE 802.11b/g/n
PCIe Adapter
10ed Ascii Corporation
7310 V7310
10ee Xilinx Corporation
0001 EUROCOM for PCI (ECOMP)
0002 Octal E1/T1 for PCI ETP Card
0007 Default PCIe endpoint ID
0205 Wildcard TE205P
0210 Wildcard TE210P
0300 Spartan 3 Designs (Xilinx IP)
0314 Wildcard TE405P/TE410P (1st Gen)
0405 Wildcard TE405P (2nd Gen)
0410 Wildcard TE410P (2nd Gen)
0600 Xilinx 6 Designs (Xilinx IP)
3fc0 RME Digi96
3fc1 RME Digi96/8
3fc2 RME Digi96/8 Pro
3fc3 RME Digi96/8 Pad
3fc4 RME Digi9652 (Hammerfall)
3fc5 RME Hammerfall DSP
3fc6 RME Hammerfall DSP MADI
7038 FPGA Card XC7VX690T
17aa 402f FPGA XC7VX690T-3FFG1157E
8380 Ellips ProfiXpress Profibus Master
8381 Ellips Santos Frame Grabber
d154 Copley Controls CAN card (PCI-CAN-02)
SED is assigned Xilinx PCI device IDs ebf0 through ebff
ebf0 SED Systems Modulator/Demodulator
ebf1 SED Systems Audio Interface Card
ebf2 SED Systems Common PCI Interface
ebf3 SED Systems PCIe-AXI Bridge
10ef Racore Computer
Products, Inc.
8154 M815x Token Ring Adapter
10f0 Peritek Corporation
10f1 Tyan Computer
2865 Tyan Thunder K8E S2865
5300 Tyan S5380 Mainboard
10f2 Achme Computer, Inc.
10f3 Alaris, Inc.
10f4 S-MOS Systems, Inc.
10f5 NKK Corporation

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 a001  NDR4000 [NR4600 Bridge]
10f6  Creative Electronic Systems SA
10f7  Matsushita Electric Industrial Co., Ltd.
10f8  Altos India Ltd
10f9  PC Direct
10fa  Truevision
 000c  TARGA 1000
10fb  Thesys Gesellschaft fuer Mikroelektronik mbH
 186f  TH 6255
10fc  I-O Data Device, Inc.
# What's in the cardbus end of a Sony ACR-A01 card, comes with newer Vaio CD-RW drives
 0003  Cardbus IDE Controller
 0005  Cardbus SCSI CBSC II
10fd  Soyo Computer, Inc
10fe  Fast Multimedia AG
10ff  NCube
1100  Jazz Multimedia
1101  Initio Corporation
 0002  INI-920 Ultra SCSI Adapter
 1060  INI-A100U2W
 1622  INI-1623 PCI SATA-II Controller
 9100  INI-9100/9100W
 9400  INI-940 Fast Wide SCSI Adapter
 9401  INI-935 Fast Wide SCSI Adapter
 9500  INI-950 SCSI Adapter
 9502
  INI-950P Ultra Wide SCSI Adapter
1102  Creative Labs
 0002  EMU10k1 [Sound Blaster Live! Series]
  100a 1102  SB Live! 5.1 Digital OEM SB0220 EMU10K1-JFF
  1102 0020  CT4670/4850 SBLive! Value
  1102 0021  CT4620 SBLive!
  1102 002f  M002/M003 Integrated SBLive!
  1102 100a  SB0220/0229 SBLive! 5.1 Digital OEM
  1102 4001  E-mu APS
  1102 8022  CT4780 SBLive! Value
  1102 8023  CT4790 SoundBlaster PCI512
  1102 8024  CT4760 SBLive!
  1102 8025  CT1140/SB0040 Integrated SBLive!
  1102 8026  CT4830 SBLive! Value
  1102 8027  CT4832 SBLive! Value
  1102 8028  CT4870 SBLive! Value
  1102 8029  CT4872 SBLive! Value
  1102 802a  CT4890 SoundBlaster PCI256
  1102 802b  CT4891 SoundBlaster PCI256
  1102 8031  CT4831 SBLive! Value
  1102 8032  CT4871 SBLive! Value
  1102 8033  CT4893 SoundBlaster PCI256
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  1102 8035  CT0060 SBLive!
  1102 8040  CT4760 SBLive!
  1102 8050  CT4750 SoundBlaster PCI512
  1102 8051  CT4850 SBLive! Value
  1102 8061  SB060 SBLive! Player 5.1
  1102 8062  SB0100
 SBLive! 5.1
  1102 8063  DXW Integrated SBLive! 5.1
  1102 8064  SB0100/SB0102 SBLive! 5.1
  1102 8065  SB0220/0222 SBLive! 5.1 Digital
  1102 8066  SB0228 SBLive! 5.1 Digital
  1102 8067  SB0220 SBLive! 5.1
  1102 8068  CT0061 SBLive!
  1102 8069  SB0101 SBLive! 5.1 Value
  1102 806a  SB0103 SBLive! 5.1
  1102 806b  SB0105 SBLive! 5.1
  1102 806c  SB0221 SBLive! 5.1
  1102 8071  SB0150 SoundBlaster PCI512
# EMU8008 PCI version of emu8000 chip
 0003  SB AWE64(D)
  1102 0010  CT4600 AWE64D
  1102 0030  CT4650 AWE64D
  1102 0031  CT4655 AWE64D
 0004  EMU10k2/CA0100/CA0102/CA10200 [Sound Blaster Audigy Series]
  1102 0040  SB0090 Audigy Player
# Probably an early engineering sample
  1102 0041  CT4820 SBLive!2
  1102 0042  CT0070 Audigy
  1102 0043  CT0072 Audigy
  1102 0051  SB0090 Audigy Player/Platinum (EX)
  1102 0052  SB0162 Audigy ES
  1102 0053  CT0090/SB0092 Audigy Player/OEM
  1102 0054  SB0161 Audigy ES
  1102 0055  SB0192 Audigy
  1102 0056  SB0191 Audigy
  1102 0057  SB0091 Audigy
  1102
 0058  SB0095 Audigy Player/OEM
  1102 0059  SB0230 Audigy
  1102 005a  SB0231 Audigy
  1102 005b  SB0232 Audigy
  1102 005c  SB0238 Audigy
  1102 1002  SB0240 Audigy 2 Platinum 6.1
  1102 1003  SB0350 Audigy 2 / SB0243 Audigy 2 OEM
  1102 1004  SB0242 Audigy 2
  1102 1005  SB0280 Audigy 2 Platinum Ex
  1102 1006  SB0245 Audigy 2 OEM
  1102 1007  SB0240/SB0244 Audigy 2 Platinum
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	1102 1008  SB0320 Audigy 2
	1102 1009  SB0249 Audigy 2 OEM
	1102 100a  SB0246 Audigy 2
	1102 2001  SB0360 Audigy 2 ZS Platinum Pro
	1102 2002  SB0350 Audigy 2 ZS
	1102 2003  SB0352 Audigy 2 ZS
	1102 2004  SB0355 Audigy 2 ZS
	1102 2005  SB0359 Audigy 2 ZS
	1102 2006  SB035x Audigy 2 OEM
	1102 2007  SB0380 Audigy 4 Pro
	1102 4001  E-MU 1010 [MAEM8810]
	1102 4002  E-MU 0404
	1102 4003  E-MU 1010
	0005  EMU20k1 [Sound Blaster X-Fi Series]
	1102 0021  X-Fi Platinum
	1102 002c  X-Fi XtremeGamer FATAL1TY PRO
	1102 1003  X-Fi XtremeMusic
	# This chip is also known as CA0103 on Sound Blaster 5.1
	SB0680 card.
	0006  EMU10k1X / CA0103 [SB Live! OEM / SB 5.1 / Ectiva 5.1]
	1102 1001  SB0680 Sound Blaster 5.1
	1102 1003  SB0203 SB Live! 5.1 (Dell)
	1102 1004  TP0033 Ectiva Audio 5.1
	0007  CA0106/CA0111 [SB Live!/Audigy/X-Fi Series]
	1102 0007  SBLive! 24bit
	1102 1001  SB0310 Audigy LS
	1102 1002  SB0312 Audigy LS
	1102 1006  SB0410 SBLive! 24-bit
	1102 100a  SB0570 [SB Audigy SE]
	1102 1012  SB0790 X-Fi XA
	1102 1013  Soundblaster X-Fi Xtreme Audio
	1462 1009  K8N Diamond
	0008  CA0108/CA10300 [Sound Blaster Audigy Series]
	1102 0008  EMU0404 Digital Audio System
	1102 1001  SB0400 Audigy 2 Value
	1102 1021  SB0610 Audigy 4 Value
	1102 1022  SBxxx Audigy 2/4 Value
	1102 1023  SB0612 Audigy 2 LS
	1102 1024  SB1550 Audigy 5/Rx
	1102 1101  SBxxxx Audigy 2 SA
	1102 2001  SB0530 Audigy 2 ZS Notebook
	1102 2021  SBxxxx Audigy 4 Notebook
	1102 4002  E-MU 0404
	1102 4003  E-MU 1010
	1102 4004  EMU1010 Digital Audio System [MAEM8960]
	1102 4005  E-MU 0404 [MAEM8984]
	1102
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4007 E-MU 1010 [MAEM8982]
1102 4201 E-MU 0202 [MAEM8950]
0009 CA0110 [Sound Blaster X-Fi Xtreme Audio]
1102 0010 MB0820 Integrated
1102 0018 SB1040 PCI Express
000b EMU20k2 [Sound Blaster X-Fi Titanium Series]
1102 0041 SB0880 [SoundBlaster X-Fi Titanium PCI-e]
1102 0062 SB1270 [SoundBlaster X-Fi Titanium HD]
0012 Sound Core3D [Sound Blaster Recon3D / Z-Series]
1102 0010 SB1570 SB Audigy Fx
4001 SB Audigy FireWire Port
1102 0010 SB Audigy FireWire Port
7002 SB Live! Game Port
1102 0020 Gameport Joystick
7003 SB Audigy Game Port
1102 0040 SB Audigy Game Port
1102 0060 SB Audigy2 MIDI/Game Port
7004 [SB Live! Value] Input device controller
7005 SB Audigy LS Game Port
1102 1001 SB0310 Audigy LS MIDI/Game port
1102 1002 SB0312 Audigy LS MIDI/Game port
7006 [SB X-Fi Xtreme Audio] CA0110-IBG PCIe to PCI Bridge
8938 Ectiva EV1938
1033 80e5 SlimTower-Jim (NEC)
1071 7150 Mitac 7150
110a 5938 Siemens Scenic Mobile 510PIII
13bd
100c Ceres-C (Sharp, Intel BX)
13bd 100d Sharp, Intel Banister
13bd 100e TwinHead P09S/P09S3 (Sharp)
13bd f6f1 Marlin (Sharp)
14ff 0e70 P88TE (TWINHEAD INTERNATIONAL Corp)
14ff c401 Notebook 9100/9200/2000 (TWINHEAD INTERNATIONAL Corp)
156d b400 G400 - Geo (AlphaTop (Taiwan))
156d b550 G560 (AlphaTop (Taiwan))
156d b560 G560 (AlphaTop (Taiwan))
156d b700 G700/U700 (AlphaTop (Taiwan))
156d b795 G795 (AlphaTop (Taiwan))
156d b797 G797 (AlphaTop (Taiwan))
nee Triones Technologies, Inc.
1103 HighPoint Technologies, Inc.
0003 HPT343/345/346/363
0004 HPT366/368/370/370A/372/372N
1103 0001 HPT370A
1103 0004 HPT366 UDMA66 (r1) / HPT368 UDMA66 (r2) / HPT370 UDMA100 (r3) / HPT370 UDMA100 RAID (r4)
1103 0005 HPT370 UDMA100
1103 0006 HPT302/302N

0005 HPT372A/372N
0006 HPT302/302N
0007 HPT371/371N
0008 HPT374
0009 HPT372N
0620 RocketRAID 620 2 Port SATA-III Controller
0622 RocketRAID 622 2 Port SATA-III Controller
0640
RocketRAID 640 4 Port SATA-III Controller
0641 RocketRAID 640L 4 Port SATA-III Controller
0642 RocketRAID 642L SATA-III Controller (2 eSATA ports + 2 internal SATA ports)
0644 RocketRAID 644 4 Port SATA-III Controller (eSATA)
0645 RocketRAID 644L 4 Port SATA-III Controller (eSATA)
0646 RocketRAID 644LS SATA-III Controller (4 eSATA devices connected by 1 SAS cable)
1720 RocketRAID 1720 (2x SATA II RAID Controller)
1740 RocketRAID 1740
1742 RocketRAID 1742
2210 RocketRAID 2210 SATA-II Controller
11ab 11ab 88SX6042
2300 RocketRAID 230x 4 Port SATA-II Controller
2310 RocketRAID 2310 4 Port SATA-II Controller
2320 RocketRAID 2320 SATA-II Controller
2322 RocketRAID 2322 SATA-II Controller
2340 RocketRAID 2340 16 Port SATA-II Controller
2640 RocketRAID 2640 SAS/SATA Controller
2722 RocketRAID 2722
SFF-8087 Mini-SAS 16 port internal
2740 RocketRAID 2740
SFF-8088 Mini-SAS 16 port external
2744 RocketRaid 2744
SFF-8088 8 port external / SFF-8087
24 port internal
2782 RocketRAID 2782
3120 RocketRAID 3120
3220 RocketRAID 3220
3320 RocketRAID 3320
4310 RocketRaid 4310
1104 RasterOps Corp.
1105 Sigma Designs, Inc.
1105 REALmagic Xcard MPEG 1/2/3/4 DVD Decoder
8300 REALmagic Hollywood Plus DVD Decoder
8400 EM840x REALmagic DVD/MPEG-2 Audio/Video Decoder
8401 EM8401 REALmagic DVD/MPEG-2 A/V Decoder
8470 EM8470 REALmagic DVD/MPEG-4 A/V Decoder
8471 EM8471 REALmagic DVD/MPEG-4 A/V Decoder
8475 EM8475 REALmagic DVD/MPEG-4 A/V Decoder
1105 0001 REALmagic X-Card
8476 EM8476 REALmagic DVD/MPEG-4 A/V Decoder

127d 0000 CineView II
8485 EM8485 REALmagic DVD/MPEG-4 A/V Decoder
8486 EM8486 REALmagic DVD/MPEG-4 A/V Decoder
Found in Cisco DMP-4305G
c621 EM8621L Digital Media Processor
c622 EM8622L MPEG-4.10 (H.264) and SMPTE 421M (VC-1) A/V Decoder
1106 VIA Technologies, Inc.
0102 Embedded VIA Ethernet Controller
0130 VT6305 1394.A Controller
0198 P4X600 Host Bridge
0204 K8M800 Host Bridge
0208
PT890 Host Bridge
0238 K8T890 Host Bridge
0258 PT880 Host Bridge
0259 CN333/CN400/PM880 Host Bridge
0269 KT880 Host Bridge
0282 K8T800Pro Host Bridge
1043 80a3 A8V Deluxe
0290 K8M890 Host Bridge
0293 PM896 Host Bridge
0296 P4M800 Host Bridge
0305 VT8363/8365 [KT133/KM133]
1019 0987 K7VZA Mainboard
1043 8033 A7V Mainboard
1043 803e A7V-E Mainboard
1043 8042 A7V133/A7V133-C Mainboard
147b a401 KT7/KT7-RAID/KT7A/KT7A-RAID Mainboard
0308 PT880 Ultra/PT894 Host Bridge
1043 8199 P4V800D-X Mainboard
1849 0308 Motherboard
0314 CN700/VN800/P4M800CE/Pro Host Bridge
0324 CX700/VX700 Host Bridge
0327 P4M890 Host Bridge
0336 K8M890CE Host Bridge
0340 PT900 Host Bridge
0351 K8T890CF Host Bridge
0353 VX800 Host Bridge
0364 CN896/VN896/P4M900 Host Bridge
1043 81ce P5VD2-VM mothervoard
0391 VT8371 [KX133]
0409 VX855/VX875 Host Bridge: Host Control
0410 VX900 Host Bridge: Host Control
0415 VT6415 PATA IDE Host Controller
1043
838f Motherboard
0501 VT8501 [Apollo MVP4]
0505 VT82C505

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# Shares chip with :0576. The VT82C576M has :1571 instead of :0561.
 0561  VT82C576MV
 0571  VT82C586A/B/VT82C686/A/B/VT823x/A/C PIPC Bus Master IDE
  1019 0985  P6VXA Motherboard
  1019 0a81  L7VTA v1.0 Motherboard (KT400-8235)
  1043 8052  VT8233A Bus Master ATA100/66/33 IDE
  1043 808c  A7V8X / A7V333 motherboard
  1043 80a1  A7V8X-X motherboard rev. 1.01
  1043 80ed  A7V600/K8V-X/A8V Deluxe motherboard
  1106 0571  VT82C586/B/VT82C686/A/B/VT8233/A/C/VT8235 PIPC Bus Master IDE
  1179 0001  Magnia Z310
  1297 f641  FX41 motherboard
  1458 5002  GA-7VAX Mainboard
  1462 5901  KT6 Delta-FIS2R (MS-6590)
  1462 7020  K8T NEO 2 motherboard
  1462 7094  K8T Neo2-F V2.0
  1462 7120  KT4AV motherboard
  1462 7181  K8MM3-V mainboard
  147b 1407  KV8-MAX3 motherboard
# probably all K7VT2/4*/6
  1849 0571  K7VT series Motherboards
 0576  VT82C576 3V [Apollo Master]
 0581  CX700/VX700 RAID Controller
# Upgrade bios to get correct ID:
 5324 instead of 0581
  1106 0581  Wrong IDE ID
 0585  VT82C585VP [Apollo VP1/VPX]
 0586  VT82C586/A/B PCI-to-ISA [Apollo VP]
  1106 0000  MVP3 ISA Bridge
 0591  VT8237A SATA 2-Port Controller
 0595  VT82C595 [Apollo VP2]
 0596  VT82C596 ISA [Mobile South]
  1106 0000  VT82C596/A/B PCI to ISA Bridge
  1458 0596  VT82C596/A/B PCI to ISA Bridge
 0597  VT82C597 [Apollo VP3]
 0598  VT82C598 [Apollo MVP3]
 0601  VT8601 [Apollo ProMedia]
 0605  VT8605 [ProSavage PM133]
  103c 1254  D9840-60001 [Brio BA410 Motherboard]
  1043 802c  CUV4X mainboard
 0680  VT82C680 [Apollo P6]
 0686  VT82C686 [Apollo Super South]
  1019 0985  P6VXA Motherboard
  103c 1256  D9840-60001 [Brio BA410 Motherboard]
  1043 802c  CUV4X mainboard
  1043 8033  A7V Mainboard
  1043 803e  A7V-E Mainboard
  1043 8040  A7M266 Mainboard
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1043 8042 A7V133/A7V133-C Mainboard
1106 0000 VT82C686/A PCI to ISA Bridge
1106 0686 VT82C686/A PCI to ISA Bridge
1179 0001 Magnia Z310
147b a702 KG7-Lite Mainboard
0691 VT82C693A/694x
[Apollo PRO133x]
1019 0985 P6VXA Motherboard
1179 0001 Magnia Z310
1458 0691 VT82C691 Apollo Pro System Controller
0693 VT82C693 [Apollo Pro Plus]
0698 VT82C693A [Apollo Pro133 AGP]
0709 VX11 Standard Host Bridge
070a VX11 PCI Express Root Port
070b VX11 PCI Express Root Port
070c VX11 PCI Express Root Port
070d VX11 PCI Express Root Port
070e VX11 PCI Express Root Port
0926 VT82C926 [Amazon]
1000 VT82C570MV
1106 VT82C570MV
1122 VX800/VX820 Chrome 9 HC3 Integrated Graphics
1204 K8M800 Host Bridge
1208 PT890 Host Bridge
1238 K8T890 Host Bridge
1258 PT880 Host Bridge
1259 CN333/CN400/PM880 Host Bridge
1269 KT880 Host Bridge
1282 K8T800Pro Host Bridge
1290 K8M890 Host Bridge
1293 PM896 Host Bridge
1296 P4M800 Host Bridge
1308 PT894 Host Bridge
1314 CN700/VN800/P4M800CE/Pro Host Bridge
1324 CX700/VX700 Host Bridge
1327 P4M890 Host Bridge
1336 K8M890CE Host Bridge
1340 PT900 Host Bridge
1351 VT3351 Host Bridge
1353
VX800/VX820 Error Reporting
1364 CN896/VN896/P4M900 Host Bridge
1409 VX855/VX875 Error Reporting
1410 VX900 Error Reporting
1571 VT82C576M/VT82C586
1595 VT82C595/97 [Apollo VP2/97]
1732 VT1732 [Envy24 II] PCI Multi-Channel Audio Controller
2106 VIA Rhine Family Fast Ethernet Adapter (VT6105)

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  2204  K8M800 Host Bridge
  2208  PT890 Host Bridge
  2238  K8T890 Host Bridge
  2258  PT880 Host Bridge
  2259  CN333/CN400/PM880 CPU Host Bridge
  2269  KT880 Host Bridge
  2282  K8T800Pro Host Bridge
  2290  K8M890 Host Bridge
  2293  PM896 Host Bridge
  2296  P4M800 Host Bridge
  2308  PT894 Host Bridge
  2314  CN700/VN800/P4M800CE/Pro Host Bridge
  2324  CX700/VX700 Host Bridge
  2327  P4M890 Host Bridge
  2336  K8M890CE Host Bridge
  2340  PT900 Host Bridge
  2351  VT3351 Host Bridge
  2353  VX800/VX820 Host Bus Control
  2364  CN896/VN896/P4M900 Host Bridge
  2409  VX855/VX875 Host Bus Control
  2410  VX900 CPU Bus Controller
  287a  VT8251 PCI to PCI Bridge
  287b  VT8251 Host Bridge
  287c  VT8251
  PCIE Root Port
  287d  VT8251 PCIE Root Port
  287e  VT8237/8251 Ultra VLINK Controller
  3022  CLE266
  3038  VT82xx/62xx UHCI USB 1.1 Controller
   0925 1234  onboard UHCI USB 1.1 Controller
   1019 0985  P6VXA Motherboard
   1019 0a81  L7VTA v1.0 Motherboard (KT400-8235)
   1043 8080  A7V333 motherboard
   1043 808c  VT6202 USB2.0 4 port controller
   1043 80a1  A7V8X-X motherboard
   1043 80ed  A7V600/K8V-X/A8V Deluxe motherboard
   1179 0001  Magnia Z310
   1458 5004  GA-7VAX Mainboard
   1462 5901  KT6 Delta-FIS2R (MS-6590)
   1462 7020  K8T NEO 2 motherboard
   1462 7094  K8T Neo2-F V2.0
   1462 7120  KT4AV motherboard
   1462 7181  K8MM3-V mainboard
   147b 1407  KV8-MAX3 motherboard
   182d 201d  CN-029 USB2.0 4 port PCI Card
 # probably all K7VT2/4*/6
   1849 3038  K7VT series Motherboards
   19da a179  ZBOX nano VD01
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1af4 1100 QEMU Virtual Machine
3040 VT82C586B ACPI
3043 VT86C100A [Rhine]
10bd 0000 VT86C100A Fast Ethernet Adapter
1106 0100 VT86C100A Fast Ethernet Adapter
1186 1400
DFE-530TX PCI Fast Ethernet Adapter (rev. A)
3044 VT6306/7/8 [Fire II(M)] IEEE 1394 OHCI Controller
0010 0001 IEEE 1394 4port DCST 1394-3+1B
1025 005a TravelMate 290
103c 2a20 Pavilion t3030.de Desktop PC
103c 2a3b Media Center PC m7590n
1043 808a A8V/A8N/P4P800/P5SD2 series motherboard
1043 81fe Motherboard
1458 1000 GA-7VT600-1394 Motherboard
1462 207d K8NGM2 series motherboard
1462 217d Aspire L250
1462 590d KT6 Delta-FIS2R (MS-6590)
1462 702d K8T NEO 2 motherboard
1462 971d MS-6917
3050 VT82C596 Power Management
3051 VT82C596 Power Management
3053 VT6105M [Rhine-III]
1186 1404 DFE-530TX PCI Fast Ethernet Adapter (rev. D)
3057 VT82C686 [Apollo Super ACPI]
1019 0985 P6VXA Motherboard
1019 0987 K7VZA Motherboard
1043 8033 A7V Mainboard
1043 803e A7V-E Mainboard
1043 8040 A7M266 Mainboard
1043 8042 A7V133/A7V133-C Mainboard
1179 0001 Magnia Z310
3058 VT82C686 AC97 Audio Controller
0e11 0097 SoundMax Digital Integrated
Audio
0e11 b194 Soundmax integrated digital audio
1019 0985 P6VXA Motherboard
1019 0987 K7VZA Motherboard
103c 1251 D9840-60001 [Brio BA410 Motherboard]
1043 1106 A7V133/A7V133-C Mainboard
1106 4511 Onboard Audio on EP7KXA
1106 aa03 VT1612A AC'97 Audio Controller
11d4 5348 AD1881A audio
1458 7600 Onboard Audio
1462 3091 MS-6309 Onboard Audio
1462 3092 MS-6309 v2.x Mainboard (VIA VT1611A codec)
1462 3300 MS-6330 Onboard Audio
1462 3400 MS-6340 (VT8363) motherboard

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	15dd 7609  Onboard Audio
	3059  VT8233/A/8235/8237 AC97 Audio Controller
	1019 0a81  L7VTA v1.0 Motherboard (KT400-8235)
	1019 1841  M811 (VT8367/VT8235/VT6103) [KT333] motherboard
	1019 1877  K8M800-M2 (V2.0) onboard audio
	1043 8095  A7V8X Motherboard (Realtek ALC650 codec)
	1043 80a1  A7V8X-X Motherboard
	1043 80b0  A7V600/K8V-X/K8V Deluxe motherboard (ADI AD1980 codec [SoundMAX])
	1043 80f3  SK8V motherboard
	1043 810d  P5VD1-X (AD1888 codec [SoundMax])
	1043 812a
	A8V Deluxe motherboard (Realtek ALC850 codec)
	10ec 8168  High Definition Audio
	1106 3059  L7VMM2 Motherboard
	1106 4161  K7VT2 motherboard
	1106 4170  PCPartner P4M800-8237R Motherboard
	1106 4552  Soyo KT-600 Dragon Plus (Realtek ALC 650)
	1297 c160  FX41 motherboard (Realtek ALC650 codec)
	1413 147b  KV8 Pro motherboard onboard audio
	1458 a002  GA-7VAX Onboard Audio (Realtek ALC650)
	1462 0080  K8T NEO 2 motherboard
	1462 3800  KT266 onboard audio
	1462 5901  KT6 Delta-FIS2R (MS-6590)
	1462 7181  K8MM3-V mainboard
	147b 1407  KV8-MAX3 motherboard
	1695 300c  Realtek ALC655 audio on EP-8KRA series mainboard
	1849 0850  ASRock 775Dual-880 Pro onboard audio (Realtek ALC850)
	1849 9739  P4VT8 Mainboard (C-Media CMI9739A codec)
	# probably all K7VT2/4*/6
	1849 9761  K7VT series Motherboards
	4005 4710  MSI K7T266 Pro2-RU (MSI-6380 v2) onboard audio (Realtek/ALC 200/200P)
	a0a0 01b6  AK77-8XN onboard audio
	a0a0 0342  AK86-L motherboard
	3065  VT6102/VT6103 [Rhine-II]
	1043
	80a1  A7V8X-X Motherboard
	1043 80ed  A7V600-X Motherboard
	1106 0102  VT6102/6103 [Rhine II] Ethernet Controller
	1186 1400  DFE-530TX PCI Fast Ethernet Adapter (rev. A)
	1186 1401  DFE-530TX PCI Fast Ethernet Adapter (rev. B)
	1186 1402  DFE-530TX PCI Fast Ethernet Adapter (rev. B)
	13b9 1421  LD-10/100AL PCI Fast Ethernet Adapter (rev.B)
	1462 7061  MS-7061
	1462 7181  K8MM3-V mainboard
	147b 1c09  NV7 Motherboard
	1695 3005  VT6103
	# probably all K7VT2/4*/6
	1849 3065  K7VT series Motherboards
```

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# This hosts more than just the Intel 537 codec, it also hosts PCtel (SIL33) and SmartLink (SIL34) codecs
 3068  AC'97 Modem Controller
  1462 309e  MS-6309 Saturn Motherboard
 3074  VT8233 PCI to ISA Bridge
  1043 8052  VT8233A
 3091  VT8633 [Apollo Pro266]
 3099  VT8366/A/7 [Apollo KT266/A/333]
  1019 1841  M811 (VT8367/VT8235/VT6103) [KT333] motherboard
  1043 8064  A7V266-E Mainboard
  1043 807f  A7V333 Mainboard
  1849 3099  K7VT2 motherboard
 3101  VT8653 Host Bridge
 3102
  VT8662 Host Bridge
 3103  VT8615 Host Bridge
 3104  USB 2.0
  0925 1234  onboard EHCI USB 2.0 Controller
  1019 0a81  L7VTA v1.0 Motherboard (KT400-8235)
  1043 808c  A7V8X motherboard
  1043 80a1  A7V8X-X motherboard rev 1.01
  1043 80ed  A7V600/K8V-X/A8V Deluxe motherboard
  1106 3104  USB 2.0 Controller
  1297 f641  FX41 motherboard
  1458 5004  GA-7VAX Mainboard
  1462 5901  KT6 Delta-FIS2R (MS-6590)
  1462 7020  K8T NEO 2 motherboard
  1462 7094  K8T Neo2-F V2.0
  1462 7120  KT4AV motherboard
  1462 7181  K8MM3-V mainboard
  147b 1407  KV8-MAX3 motherboard
  182d 201d  CN-029 USB 2.0 4 port PCI Card
# probably all K7VT2/4*/6
  1849 3104  K7VT series Motherboards
  19da a179  ZBOX nano VD01
 3106  VT6105/VT6106S [Rhine-III]
  1106 0105  VT6106S [Rhine-III]
  1186 1403  DFE-530TX PCI Fast Ethernet Adapter (rev. C)
  1186 1405  DFE-520TX Fast Ethernet PCI Adapter
  1186 1406  DFE-530TX+ rev F2
  1186 1407  DFE-538TX
 3108  K8M800/K8N800/K8N800A [S3 UniChrome Pro]
 3109  VT8233C
 PCI to ISA Bridge
 3112  VT8361 [KLE133] Host Bridge
 3113  VPX/VPX2 PCI to PCI Bridge Controller
 3116  VT8375 [KM266/KL266] Host Bridge
  1297 f641  FX41 motherboard
 3118  CN400/PM800/PM880/PN800/PN880 [S3 UniChrome Pro]
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3119  VT6120/VT6121/VT6122 Gigabit Ethernet Adapter
3122  VT8623 [Apollo CLE266] integrated CastleRock graphics
3123  VT8623 [Apollo CLE266]
3128  VT8753 [P4X266 AGP]
3133  VT3133 Host Bridge
3142  VT6651 WiFi Adapter, 802.11b
3147  VT8233A ISA Bridge
 1043 808c  A7V333 motherboard
3148  P4M266 Host Bridge
3149  VIA VT6420 SATA RAID Controller
 1043 80ed  A7V600/K8V Deluxe/K8V-X/A8V Deluxe motherboard
 1458 b003  GA-7VM400AM(F) Motherboard
 1462 5901  KT6 Delta-FIS2R (MS-6590)
 1462 7020  K8T Neo 2 Motherboard
 1462 7094  K8T Neo2-F V2.0
 1462 7181  K8MM3-V mainboard
 147b 1407  KV8-MAX3 motherboard
 147b 1408  KV7
 1849 3149  K7VT6 motherboard
 a0a0 04ad  AK86-L motherboard
3156  P/KN266 Host Bridge
3157  CX700/VX700 [S3 UniChrome Pro]
3164
 VT6410 ATA133 RAID controller
 1043 80f4  P4P800 Mainboard Deluxe ATX
 1462 7028  915P/G Neo2
3168  P4X333/P4X400/PT800 AGP Bridge
 1849 3168  P4VT8 Mainboard
3177  VT8235 ISA Bridge
 1019 0a81  L7VTA v1.0 Motherboard (KT400-8235)
 1019 1841  M811 (VT8367/VT8235/VT6103) [KT333] motherboard
 1043 808c  A7V8X motherboard
 1043 80a1  A7V8X-X motherboard
 1106 0000  KT4AV motherboard
 1297 f641  FX41 motherboard
 1458 5001  GA-7VAX Mainboard
# probably all K7VT2/4*/6
 1849 3177  K7VT series Motherboards
3178  ProSavageDDR P4N333 Host Bridge
3188  VT8385 [K8T800 AGP] Host Bridge
 1043 80a3  K8V Deluxe/K8V-X motherboard
 147b 1407  KV8-MAX3 motherboard
3189  VT8377 [KT400/KT600 AGP] Host Bridge
 1043 807f  A7V8X motherboard
 1106 0000  KT4AV motherboard (KT400A)
 1458 5000  GA-7VAX Mainboard
# probably all K7VT2/4*/6
 1849 3189  K7VT series Motherboards
```

31b0 VX11 Standard Host Bridge
31b1 VX11 Standard Host Bridge
31b2 VX11 DRAM Controller
31b3 VX11 Power Management
Controller
31b4 VX11 I/O APIC
31b5 VX11 Scratch Device
31b7 VX11 Standard Host Bridge
31b8 VX11 PCI to PCI Bridge
3204 K8M800 Host Bridge
3205 VT8378 [KM400/A] Chipset Host Bridge
 1458 5000 GA-7VM400M Motherboard
3208 PT890 Host Bridge
3213 VPX/VPX2 PCI to PCI Bridge Controller
3218 K8T800M Host Bridge
3227 VT8237 ISA bridge [KT600/K8T800/K8T890 South]
 1043 80ed A7V600/K8V-X/A8V Deluxe motherboard
 1106 3227 DFI KT600-AL / Soltek SL-B9D-FGR Motherboard
 1458 5001 GA-7VT600 Motherboard
 147b 1407 KV8-MAX3 motherboard
 1849 3227 K7VT4 motherboard
3230 K8M890CE/K8N890CE [Chrome 9]
3238 K8T890 Host Bridge
3249 VT6421 IDE/SATA Controller
 1106 3249 VT6421 IDE/SATA Controller
324a CX700/VX700 PCI to PCI Bridge
324b CX700/VX700 Host Bridge
324e CX700/VX700 Internal Module Bus
3253 VT6655 WiFi Adapter, 802.11a/b/g
3258 PT880 Host Bridge
3259 CN333/CN400/PM880 Host Bridge
3260 VIA Chrome9 HC IGP
3269 KT880 Host Bridge
3282 K8T800Pro
Host Bridge
3287 VT8251 PCI to ISA Bridge
3288 VT8237A/VT8251 HDA Controller
 19da a179 ZBOX VD01
3290 K8M890 Host Bridge
3296 P4M800 Host Bridge
3324 CX700/VX700 Host Bridge
3327 P4M890 Host Bridge
3336 K8M890CE Host Bridge
3337 VT8237A PCI to ISA Bridge
3340 PT900 Host Bridge
3343 P4M890 [S3 UniChrome Pro]
3344 CN700/P4M800 Pro/P4M800 CE/VN800 Graphics [S3 UniChrome Pro]
3349 VT8251 AHCI/SATA 4-Port Controller

3351 VT3351 Host Bridge
3353 VX800 PCI to PCI Bridge
3364 CN896/VN896/P4M900 Host Bridge
3371 CN896/VN896/P4M900 [Chrome 9 HC]
3372 VT8237S PCI to ISA Bridge
337a VT8237A PCI to PCI Bridge
337b VT8237A Host Bridge
3403 VT6315 Series Firewire Controller
1043 8374 M5A88-V EVO
1043 8384 P8P67 Deluxe Motherboard
3409 VX855/VX875 DRAM Bus Control
3410 VX900 DRAM Bus Control
19da a179 ZBOX nano VD01
3432 VL80x xHCI USB 3.0 Controller
3456 VX11 Standard Host Bridge
345b VX11 Miscellaneous Bus
3483 VL805 USB 3.0 Host
Controller
3a01 VX11 Graphics [Chrome 645/640]
4149 VIA VT6420 (ATA133) Controller
4204 K8M800 Host Bridge
4208 PT890 Host Bridge
4238 K8T890 Host Bridge
4258 PT880 Host Bridge
4259 CN333/CN400/PM880 Host Bridge
4269 KT880 Host Bridge
4282 K8T800Pro Host Bridge
4290 K8M890 Host Bridge
4293 PM896 Host Bridge
4296 P4M800 Host Bridge
4308 PT894 Host Bridge
4314 CN700/VN800/P4M800CE/Pro Host Bridge
4324 CX700/VX700 Host Bridge
4327 P4M890 Host Bridge
4336 K8M890CE Host Bridge
4340 PT900 Host Bridge
4351 VT3351 Host Bridge
4353 VX800/VX820 Power Management Control
4364 CN896/VN896/P4M900 Host Bridge
4409 VX855/VX875 Power Management Control
4410 VX900 Power Management and Chip Testing Control
19da a179 ZBOX nano VD01
5030 VT82C596 ACPI [Apollo PRO]
5122 VX855/VX875 Chrome 9 HCM Integrated Graphics
5208 PT890 I/O APIC Interrupt Controller
5238 K8T890 I/O APIC Interrupt Controller
5287 VT8251 Serial ATA Controller
5290 K8M890 I/O APIC

Interrupt Controller
5308 PT894 I/O APIC Interrupt Controller
5324 VX800 Serial ATA and EIDE Controller
5327 P4M890 I/O APIC Interrupt Controller
5336 K8M890CE I/O APIC Interrupt Controller
5340 PT900 I/O APIC Interrupt Controller
5351 VT3351 I/O APIC Interrupt Controller
5353 VX800/VX820 APIC and Central Traffic Control
5364 CN896/VN896/P4M900 I/O APIC Interrupt Controller
5372 VT8237/8251 Serial ATA Controller
5409 VX855/VX875 APIC and Central Traffic Control
5410 VX900 APIC and Central Traffic Control
6100 VT85C100A [Rhine II]
6287 SATA RAID Controller
6290 K8M890CE Host Bridge
6327 P4M890 Security Device
6353 VX800/VX820 Scratch Registers
6364 CN896/VN896/P4M900 Security Device
6409 VX855/VX875 Scratch Registers
6410 VX900 Scratch Registers
19da a179 ZBOX nano VD01
7122 VX900 Graphics [Chrome9 HD]
7204 K8M800 Host Bridge
7205 KM400/KN400/P4M800 [S3 UniChrome]
1458 d000 Gigabyte GA-7VM400(A)M(F) Motherboard
1462 7061 MS-7061
7208
PT890 Host Bridge
7238 K8T890 Host Bridge
7258 PT880 Host Bridge
7259 CN333/CN400/PM880 Host Bridge
7269 KT880 Host Bridge
7282 K8T800Pro Host Bridge
7290 K8M890 Host Bridge
7293 PM896 Host Bridge
7296 P4M800 Host Bridge
7308 PT894 Host Bridge
7314 CN700/VN800/P4M800CE/Pro Host Bridge
7324 CX700/VX700 Host Bridge
7327 P4M890 Host Bridge
7336 K8M890CE Host Bridge
7340 PT900 Host Bridge
7351 VT3351 Host Bridge
7353 VX800/VX820 North-South Module Interface Control
7364 CN896/VN896/P4M900 Host Bridge
7409 VX855/VX875 North-South Module Interface Control
7410 VX900 North-South Module Interface Control
19da a179 ZBOX nano VD01

8231 VT8231 [PCI-to-ISA Bridge]
8235 VT8235 ACPI
8305 VT8363/8365 [KT133/KM133 AGP]
8324 CX700/VX700 PCI to ISA Bridge
8353 VX800/VX820 Bus Control and Power Management
8391 VT8371 [KX133 AGP]
8400 MVP4
8409 VX855/VX875 Bus Control and Power Management
8410 VX900 Bus Control and Power Management
 19da a179
 ZBOX VD01
8500 KLE133/PLE133/PLE133T
8501 VT8501 [Apollo MVP4 AGP]
8596 VT82C596 [Apollo PRO AGP]
8597 VT82C597 [Apollo VP3 AGP]
8598 VT82C598/694x [Apollo MVP3/Pro133x AGP]
 1019 0985 P6VXA Motherboard
8601 VT8601 [Apollo ProMedia AGP]
8605 VT8605 [PM133 AGP]
8691 VT82C691 [Apollo Pro]
8693 VT82C693 [Apollo Pro Plus] PCI Bridge
8a25 PL133/PL133T [S3 ProSavage]
8a26 KL133/KL133A/KM133/KM133A [S3 ProSavage]
8d01 PN133/PN133T [S3 Twister]
8d04 KM266/P4M266/P4M266A/P4N266 [S3 ProSavageDDR]
9001 VX900 Serial ATA Controller
9082 Standard AHCI 1.0 SATA Controller
9140 HDMI Audio Device
9201 USB3.0 Controller
9530 Secure Digital Memory Card Controller
95d0 SDIO Host Controller
a208 PT890 PCI to PCI Bridge Controller
a238 K8T890 PCI to PCI Bridge Controller
a327 P4M890 PCI to PCI Bridge Controller
a353 VX8xx South-North Module Interface Control
a364 CN896/VN896/P4M900 PCI to PCI Bridge Controller
a409 VX855/VX875 USB Device Controller
a410
 VX900 PCI Express Root Port 0
b091 VT8633 [Apollo Pro266 AGP]
b099 VT8366/A/7 [Apollo KT266/A/333 AGP]
b101 VT8653 AGP Bridge
b102 VT8362 AGP Bridge
b103 VT8615 AGP Bridge
b112 VT8361 [KLE133] AGP Bridge
b113 VPX/VPX2 I/O APIC Interrupt Controller
b115 VT8363/8365 [KT133/KM133] PCI Bridge
b168 VT8235 PCI Bridge

b188 VT8237/8251 PCI bridge [K8M890/K8T800/K8T890 South]
147b 1407 KV8-MAX3 motherboard
b198 VT8237/VX700 PCI Bridge
b213 VPX/VPX2 I/O APIC Interrupt Controller
b353 VX855/VX875/VX900 PCI to PCI Bridge
b410 VX900 PCI Express Root Port 1
b999 [K8T890 North / VT8237 South] PCI Bridge
c208 PT890 PCI to PCI Bridge Controller
c238 K8T890 PCI to PCI Bridge Controller
c327 P4M890 PCI to PCI Bridge Controller
c340 PT900 PCI to PCI Bridge Controller
c353 VX800/VX820 PCI Express Root Port
c364 CN896/VN896/P4M900 PCI to PCI Bridge Controller
c409 VX855/VX875 EIDE Controller
c410 VX900 PCI Express Root Port 2
d104 VT8237R USB UDCI Controller
d208
PT890 PCI to PCI Bridge Controller
d213 VPX/VPX2 PCI to PCI Bridge Controller
d238 K8T890 PCI to PCI Bridge Controller
d340 PT900 PCI to PCI Bridge Controller
d410 VX900 PCI Express Root Port 3
e208 PT890 PCI to PCI Bridge Controller
e238 K8T890 PCI to PCI Bridge Controller
e340 PT900 PCI to PCI Bridge Controller
e353 VX800/VX820 PCI Express Root Port
e410 VX900 PCI Express Physical Layer Electrical Sub-block
f208 PT890 PCI to PCI Bridge Controller
f238 K8T890 PCI to PCI Bridge Controller
f340 PT900 PCI to PCI Bridge Controller
f353 VX800/VX820 PCI Express Root Port
1107 Stratus Computers
0576 VIA VT82C570MV [Apollo] (Wrong vendor ID!)
1108 Proteon, Inc.
0100 p1690plus_AA
0101 p1690plus_AB
0105 P1690Plus
0108 P1690Plus
0138 P1690Plus
0139 P1690Plus
013c P1690Plus
013d P1690Plus
1109 Cogent Data Technologies, Inc.
1400 EM110TX [EX110TX]
110a Siemens AG
0002 Pirahna 2-port
0005 Tulip controller, power management, switch extender
0006

FSC PINC (I/O-APIC)
0015 FSC Multiprocessor Interrupt Controller
001d FSC Copernicus Management Controller
007b FSC Remote Service Controller, mailbox device
007c FSC Remote Service Controller, shared memory device
007d FSC Remote Service Controller, SMIC device
2101 HST SAPHIR V Primary PCI (ISDN/PMx)
Superfastcom-PCI (Commtech, Inc.) or DSCC4 WAN Adapter
2102 DSCC4 PEB/PEF 20534 DMA Supported Serial Communication Controller with 4 Channels
2104 Eicon Diva 2.02 compatible passive ISDN card
3141 SIMATIC NET CP 5611 / 5621
3142 SIMATIC NET CP 5613 / 5614
3143 SIMATIC NET CP 1613
4021 SIMATIC NET CP 5512 (Profibus and MPI Cardbus Adapter)
4029 SIMATIC NET CP 5613 A2
110a 4029 SIMATIC NET CP 5613 A2
110a c029 SIMATIC NET CP 5614 A2
4035 SIMATIC NET CP 1613 A2
4036 SIMATIC NET CP 1616
4038 SIMATIC NET CP 1604
4069 SIMATIC NET CP 5623
110a 4069 SIMATIC NET CP 5623
110a c069 SIMATIC NET CP 5624
407c SIMATIC NET CP 5612
407d SIMATIC
NET CP 5613 A3
407e SIMATIC NET CP 5622
4083 SIMATIC NET CP 5614 A3
4084 SIMATIC NET CP 1626
4942 FPGA I-Bus Tracer for MBD
6120 SZB6120
110b Chromatic Research Inc.
0001 Mpact Media Processor
0004 Mpact 2
110c Mini-Max Technology, Inc.
110d Znyx Advanced Systems
110e CPU Technology
110f Ross Technology
1110 Powerhouse Systems
6037 Firepower Powerized SMP I/O ASIC
6073 Firepower Powerized SMP I/O ASIC
1111 Santa Cruz Operation
Also claimed to be RNS or Rockwell International, current PCISIG records list Osicom
1112 Osicom Technologies Inc
2200 FDDI Adapter
2300 Fast Ethernet Adapter
2340 4 Port Fast Ethernet Adapter
2400 ATM Adapter

1113 Accton Technology Corporation
1211 SMC2-1211TX
103c 1207 EN-1207D Fast Ethernet Adapter
1113 1211 EN-1207D Fast Ethernet Adapter
1216 EN-1216 Ethernet Adapter
1113 1216 EN1207F series PCI Fast Ethernet Adapter
1113 2220 EN2220A Cardbus Fast Ethernet Adapter
1113 2242 EN2242 10/100 Ethernet
Mini-PCI Card
111a 1020 SpeedStream 1020 PCI 10/100 Ethernet Adaptor [EN-1207F-TX ?]
1217 EN-1217 Ethernet Adapter
5105 10Mbps Network card
9211 EN-1207D Fast Ethernet Adapter
1113 9211 EN-1207D Fast Ethernet Adapter
9511 21x4x DEC-Tulip compatible Fast Ethernet
d301 CPWNA100 (Philips wireless PCMCIA)
ec02 SMC 1244TX v3
ee23 SMCWPCIT-G 108Mbps Wireless PCI adapter
1114 Atmel Corporation
0506 at76c506 802.11b Wireless Network Adaptor
1115 3D Labs
1116 Data Translation
0022 DT3001
0023 DT3002
0024 DT3003
0025 DT3004
0026 DT3005
0027 DT3001-PGL
0028 DT3003-PGL
0051 DT322
0060 DT340
0069 DT332
80c2 DT3162
1117 Datacube, Inc
9500 Max-1C SVGA card
9501 Max-1C image processing
1118 Berg Electronics
1119 ICP Vortex Computersysteme GmbH
0000 GDT 6000/6020/6050
0001 GDT 6000B/6010
0002 GDT 6110/6510
0003 GDT 6120/6520
0004 GDT 6530
0005 GDT 6550
0006 GDT 6117/6517
0007 GDT 6127/6527
0008 GDT 6537
0009 GDT 6557/6557-ECC

000a
GDT 6115/6515
000b GDT 6125/6525
000c GDT 6535
000d GDT 6555/6555-ECC
0100 GDT 6117RP/6517RP
0101 GDT 6127RP/6527RP
0102 GDT 6537RP
0103 GDT 6557RP
0104 GDT 6111RP/6511RP
0105 GDT 6121RP/6521RP
0110 GDT 6117RD/6517RD
0111 GDT 6127RD/6527RD
0112 GDT 6537RD
0113 GDT 6557RD
0114 GDT 6111RD/6511RD
0115 GDT 6121RD/6521RD
0118 GDT 6118RD/6518RD/6618RD
0119 GDT 6128RD/6528RD/6628RD
011a GDT 6538RD/6638RD
011b GDT 6558RD/6658RD
0120 GDT 6117RP2/6517RP2
0121 GDT 6127RP2/6527RP2
0122 GDT 6537RP2
0123 GDT 6557RP2
0124 GDT 6111RP2/6511RP2
0125 GDT 6121RP2/6521RP2
0136 GDT 6113RS/6513RS
0137 GDT 6123RS/6523RS
0138 GDT 6118RS/6518RS/6618RS
0139 GDT 6128RS/6528RS/6628RS
013a GDT 6538RS/6638RS
013b GDT 6558RS/6658RS
013c GDT 6533RS/6633RS
013d GDT 6543RS/6643RS
013e GDT 6553RS/6653RS
013f GDT 6563RS/6663RS
0166 GDT 7113RN/7513RN/7613RN
0167 GDT 7123RN/7523RN/7623RN
0168 GDT 7118RN/7518RN/7518RN
0169 GDT 7128RN/7528RN/7628RN
016a
GDT 7538RN/7638RN
016b GDT 7558RN/7658RN
016c GDT 7533RN/7633RN
016d GDT 7543RN/7643RN
016e GDT 7553RN/7653RN
016f GDT 7563RN/7663RN

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01d6  GDT 4x13RZ
01d7  GDT 4x23RZ
01f6  GDT 8x13RZ
01f7  GDT 8x23RZ
01fc  GDT 8x33RZ
01fd  GDT 8x43RZ
01fe  GDT 8x53RZ
01ff  GDT 8x63RZ
0210  GDT 6519RD/6619RD
0211  GDT 6529RD/6629RD
0260  GDT 7519RN/7619RN
0261  GDT 7529RN/7629RN
02ff  GDT MAXRP
0300  GDT NEWRX
0301  GDT NEWRX2
111a  Efficient Networks, Inc
0000  155P-MF1 (FPGA)
0002  155P-MF1 (ASIC)
0003  ENI-25P ATM
 111a 0000  ENI-25p Miniport ATM Adapter
0005  SpeedStream (LANAI)
 111a 0001  ENI-3010 ATM
 111a 0009  ENI-3060 ADSL (VPI=0)
 111a 0101  ENI-3010 ATM
 111a 0109  ENI-3060CO ADSL (VPI=0)
 111a 0809  ENI-3060 ADSL (VPI=0 or 8)
 111a 0909  ENI-3060CO ADSL (VPI=0 or 8)
 111a 0a09  ENI-3060 ADSL (VPI=<0..15>)
0007  SpeedStream ADSL
 111a 1001  ENI-3061 ADSL [ASIC]
1020  SpeedStream PCI 10/100 Network Card
1203  SpeedStream 1023 Wireless PCI Adapter
111b
 Teledyne Electronic Systems
111c  Tricord Systems Inc.
0001  Powerbis Bridge
# now owned by Microchip Technology
111d  Microsemi / PMC / IDT
0001  IDT77201/77211 155Mbps ATM SAR Controller [NICStAR]
0003  IDT77222/77252 155Mbps ATM MICRO ABR SAR Controller
0004  IDT77V252 155Mbps ATM MICRO ABR SAR Controller
0005  IDT77V222 155Mbps ATM MICRO ABR SAR Controller
8018  PES12N3A 12-lane 3-Port PCI Express Switch
801c  PES24N3A PCI Express Switch
8028  PES4T4 PCI Express Switch
802b  PES8T5A PCI Express Switch
802c  PES16T4 PCI Express Switch
802d  PES16T7 PCI Express Switch
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802e PES24T6 PCI Express Switch
802f PES32T8 PCI Express Switch
8032 PES48T12 PCI Express Switch
8034 PES16/22/34H16 PCI Express Switch
8035 PES32H8 PCI Express Switch
8036 PES48H12 PCI Express Switch
8037 PES64H16 PCI Express Switch
8039 PES3T3 PCI Express Switch
803a PES4T4 PCI Express Switch
803c PES5T5 PCI Express Switch
803d PES6T5 PCI Express Switch
8048 PES8NT2 PCI
Express Switch
8049 PES8NT2 PCI Express Switch
804a PES8NT2 PCI Express Internal NTB
804b PES8NT2 PCI Express External NTB
804c PES16NT2 PCI Express Switch
804d PES16NT2 PCI Express Switch
804e PES16NT2 PCI Express Internal NTB
804f PES16NT2 PCI Express External NTB
8058 PES12NT3 PCI Express Switch
8059 PES12NT3 PCI Express Switch
805a PES12NT3 PCI Express Internal NTB
805b PES12NT3 PCI Express External NTB
805c PES24NT3 PCI Express Switch
805d PES24NT3 PCI Express Switch
805e PES24NT3 PCI Express Internal NTB
805f PES24NT3 PCI Express External NTB
8060 PES16T4G2 PCI Express Gen2 Switch
8061 PES12T3G2 PCI Express Gen2 Switch
8068 PES6T6G2 PCI Express Gen2 Switch
806a PES24T3G2 PCI Express Gen2 Switch
 14c1 000c 10G-PCIE2-8B2
806c PES16T4A/4T4G2 PCI Express Gen2 Switch
806e PES24T6G2 PCI Express Gen2 Switch
806f HIO524G2 PCI Express Gen2 Switch
8077 89HPES64H16G2 64-Lane 16-Port PCIe Gen2 System Interconnect Switch
8088 PES32NT8BG2 PCI Express
Switch
 1093 752f PXIe-8383mc Device
 1093 7543 PXIe-8383mc System Host
 1093 755c PXIe-8364
 1093 755d PXIe-8374
 1093 75ff PXIe-8383mc DMA
 1093 7600 PXIe-8383mc DMA
 1093 7602 PXIe-8384
32-lanes 24-ports Gen.2
808a 89HPES32NT24BG2 PCI Express Switch

32-lanes 24-ports Gen.2
808c 89HPES32NT24AG2 PCI Express Switch
808e PES24NT24G2 PCI Express Switch
808f 89HPES32NT8AG2 32-Lane 8-Port PCIe Gen2 System Interconnect Switch with Non-Transparent Bridging
8090 89HPES16NT16G2 16-Lane 16-Port PCIe Gen2 System Interconnect Switch
8092 89HPES12NT12G2 12-Lane 12-Port PCIe Gen2 System Interconnect Switch
80cf F32P08xG3 [PCIe boot mode]
80d2 F32P08xG3 NVMe controller
111e Eldec
111f Precision Digital Images
4a47 Precision MX Video engine interface
5243 Frame capture bus interface
formerly EMC Corporation
1120 Dell EMC
2306 Unity Fibre Channel Controller
2501 Unity Ethernet Controller
2505 Unity Fibre Channel Controller
1121 Zilog
1122 Multi-tech
Systems, Inc.
1123 Excellent Design, Inc.
1124 Leutron Vision AG
2581 Picport Monochrome
1125 Eurocore
1126 Vigra
1127 FORE Systems Inc
0200 ForeRunner PCA-200 ATM
0210 PCA-200PC
0250 ATM
0300 ForeRunner PCA-200EPC ATM
0310 ATM
0400 ForeRunnerHE ATM Adapter
1127 0400 ForeRunnerHE ATM
1129 Firmworks
112a Hermes Electronics Company, Ltd.
nee Linotype - Hell AG
112b Heidelberger Druckmaschinen AGHeidelberger Druckmaschinen AG
112c Zenith Data Systems
112d Ravicad
112e Infomedia Microelectronics Inc.
112f Dalsa Inc.
0000 MVC IC-PCI
0001 MVC IM-PCI Video frame grabber/processor
0004 PCDig Digital Image Capture
0008 PC-CamLink PCI framegrabber
1130 Computervision
1131 Philips Semiconductors
1561 USB 1.1 Host Controller

1775 c200 C2K onboard USB 1.1 host controller
1562 USB 2.0 Host Controller
1775 c200 C2K onboard USB 2.0 host controller
3400 SmartPCI56(UCB1500) 56K Modem
5400 TriMedia TM1000/1100
12ca 0000 BlueICE
5402 TriMedia
TM1300
1244 0f00 Fritz!Card DSL
15eb 1300 DT1300
15eb 1302 DT1302
15eb 1304 DT1304
15eb 1305 DT1305
15eb 1306 PMCDT1306
15eb 1308 DT1308
15eb 1331 DT1301 with SAA7121
15eb 1337 DT1301 with SAA7127
15eb 2d3d X3D
15eb 7022 PTM1300
5405 TriMedia TM1500
1136 0005 LCP-1500
5406 TriMedia TM1700
540b PNX1005 Media Processor
1131 0020 PNXLite PCI Demo Board
7130 SAA7130 Video Broadcast Decoder
0000 4016 Behold TV 401
0000 4051 Behold TV 405 FM
0000 5051 Behold TV 505 RDS
0000 505b Behold TV 505 RDS
102b 48d0 Matrox CronosPlus
1048 226b ELSA EX-VISION 300TV
107d 6655 WinFast DTV1000S
1131 0000 SAA7130-based TV tuner card
1131 2001 10MOONS PCI TV CAPTURE CARD
1131 2005 Techcom (India) TV Tuner Card (SSD-TV-670)
1458 9006 GT-PS700 DVB-S tuner
1461 050c Nagase Sangyo TransGear 3000TV
1461 10ff AVerMedia DVD EZMaker
1461 2108 AverMedia AverTV/305
1461 2115 AverMedia AverTV Studio 305
153b 1152 Terratec
Cinergy 200 TV
185b c100 Compro VideoMate TV PVR/FM
185b c901 Videomate DVB-T200
5168 0138 LifeView FlyVIDEO2000
5ace 5010 Behold TV 501
5ace 5050 Behold TV 505 FM
7133 SAA7131/SAA7133/SAA7135 Video Broadcast Decoder

0000 4091 Beholder BeholdTV 409 FM
0000 5071 Behold TV 507 RDS
0000 507b Behold TV 507 RDS
0000 5201 Behold TV Columbus
0070 6701 WinTV HVR-1110
1019 4cb5 Elitegroup ECS TVP3XP FM1236 Tuner Card (NTSC,FM)
1043 0210 FlyTV mini Asus Digimatrix
1043 4843 TV-FM 7133
1043 4845 TV-FM 7135
1043 4862 P7131 Dual
1043 4876 My Cinema-P7131 Hybrid
1131 0000 SAA713x-based TV tuner card
1131 2001 Proteus Pro [philips reference design]
1131 2018 Tiger reference design
1131 4ee9 MonsterTV Mobile
1131 7133 Pinnacle PCTV 301i
11bd 002b PCTV Stereo
11bd 002e PCTV 110i (saa7133)
12ab 0800 PURPLE TV
13c2 2804 Technotrend Budget T-3000 Hybrid
1421 0335 Instant TV DVB-T Cardbus
1421 1370 Instant TV (saa7135)
1435
7330 VFG7330
1435 7350 VFG7350
1458 9001 GC-PTV-TAF Hybrid TV card
1458 9002 GT-PTV-TAF-RH DVB-T/Analog TV/FM tuner
1458 9003 GT-PTV-AF-RH Analog TV/FM tuner
1458 9004 GT-P8000 DVB-T/Analog TV/FM tuner
1458 9005 GT-P6000 Analog TV/FM tuner
1458 9008 GT-P5100 Analog TV tuner
1461 1044 AVerTVHD MCE A180
1461 4836 M10D Hybrid DVBT
1461 861e M105 PAL/SECAM/NTSC/FM Tuner
1461 a14b AVerTV Studio 509
1461 a836 M115 DVB-T, PAL/SECAM/NTSC Tuner
1461 f01d DVB-T Super 007
1461 f31f Avermedia AVerTV GO 007 FM
1461 f936 Hybrid+FM PCI (rev A16D)
1462 6231 TV@nywhere Plus
1489 0214 LifeView FlyTV Platinum FM
14c0 1212 LifeView FlyTV Platinum Mini2
153b 1160 Cinergy 250 PCI TV
153b 1162 Terratec Cinergy 400 mobile
17de 7256 PlusTV All In One PI610 card
17de 7350 ATSC 110 Digital / Analog HDTV Tuner
17de 7352 ATSC 115 Digital / Analog HDTV Tuner
185b c100 VideoMate TV

185b c900 VideoMate T750
5168 0306 LifeView FlyDVB-T DUO
5168
0319 LifeView FlyDVB Trio
5168 0502 LifeView FlyDVB-T Duo CardBus
5168 0520 LifeView FlyDVB Trio CardBus
5168 1502 LifeView FlyTV CardBus
5168 2502 LifeView FlyDVB-T CardBus
5168 2520 LifeView FlyDVB-S Duo CardBus
5168 3502 LifeView FlyDVB-T Hybrid CardBus
5168 3520 LifeView FlyDVB Trio N CardBus
5ace 5030 Behold TV 503 FM
5ace 5090 Behold TV 509 FM
5ace 6090 Behold TV 609 FM
5ace 6091 Behold TV 609 FM
5ace 6092 Behold TV 609 RDS
5ace 6093 Behold TV 609 RDS
5ace 6190 Behold TV M6
5ace 6191 Behold TV M63
5ace 6193 Behold TV M6 Extra
5ace 6290 Behold TV H6
5ace 7090 Behold TV A7
5ace 7150 Behold TV H75
5ace 7151 Behold TV H75
5ace 7190 Behold TV H7
5ace 7191 Behold TV H7
5ace 7290 Behold TV T7
5ace 7591 Behold TV X7
5ace 7595 Behold TV X7
7134 SAA7134/SAA7135HL Video Broadcast Decoder
0000 4036 Behold TV 403
0000 4037 Behold TV 403 FM
0000 4071 Behold TV 407 FM
1019 4cb4 Elitegroup ECS TVP3XP
FM1216 Tuner Card(PAL-BG,FM)
1043 0210 Digimatrix TV
1043 4840 TV-FM 7134
1043 4842 TV-FM 7134
1131 0000 SAA713x-based TV tuner card
1131 2004 EUROPA V3 reference design
1131 4e85 SKNet Monster TV
1131 6752 EMPRESS
11bd 002b PCTV Stereo
11bd 002d PCTV 300i DVB-T + PAL
1461 2c00 AverTV Hybrid+FM PCI
1461 9715 AVerTV Studio 307
1461 a70a Avermedia AVerTV 307
1461 a70b AverMedia M156 / Medion 2819

1461 d6ee Cardbus TV/Radio (E500)
1471 b7e9 AVerTV Cardbus plus
153b 1142 Terratec Cinergy 400 TV
153b 1143 Terratec Cinergy 600 TV
153b 1158 Terratec Cinergy 600 TV MK3
1540 9524 ProVideo PV952
16be 0003 Medion 7134
185b c200 Compro VideoMate Gold+ Pal
185b c900 Videomate DVB-T300
1894 a006 KNC One TV-Station DVR
1894 fe01 KNC One TV-Station RDS / Typhoon TV Tuner RDS
5168 0138 FLY TV PRIME 34FM
5168 0300 FlyDVB-S
5ace 5070 Behold TV 507 FM
5ace 6070 Behold TV 607 FM
5ace 6071 Behold TV 607 FM
5ace 6072
Behold TV 607 RDS
5ace 6073 Behold TV 607 RDS
7145 SAA7145
7146 SAA7146
110a 0000 Fujitsu/Siemens DVB-C card rev1.5
110a ffff Fujitsu/Siemens DVB-C card rev1.5
1124 2581 Leutron Vision PicPort
1131 4f56 KNC1 DVB-S Budget
1131 4f60 Fujitsu-Siemens Activy DVB-S Budget Rev AL
1131 4f61 Activy DVB-S Budget Rev GR
1131 5f61 Activy DVB-T Budget
114b 2003 DVRaptor Video Edit/Capture Card
1159 0040 MuTech M-Vision 500 (MV-500 rev. E)
1159 0050 MuTech M-Vision 500 (MV-500 rev. F)
11bd 0006 DV500 Overlay
11bd 000a DV500 Overlay
11bd 000f DV500 Overlay
13c2 0000 Siemens/Technotrend/Hauppauge DVB card rev1.3 or rev1.5
13c2 0001 Technotrend/Hauppauge DVB card rev1.3 or rev1.6
13c2 0002 Technotrend/Hauppauge DVB card rev2.1
13c2 0003 Technotrend/Hauppauge DVB card rev2.1
13c2 0004 Technotrend/Hauppauge DVB card rev2.1
13c2 0006 Technotrend/Hauppauge DVB card rev1.3 or rev1.6
13c2 0008 Technotrend/Hauppauge DVB-T
13c2 000a Octal/Technotrend
DVB-C for iTV
13c2 000e Technotrend/Hauppauge DVB card rev2.3
13c2 1003 Technotrend-Budget/Hauppauge WinTV-NOVA-S DVB card
13c2 1004 Technotrend-Budget/Hauppauge WinTV-NOVA-C DVB card
13c2 1005 Technotrend-Budget/Hauppauge WinTV-NOVA-T DVB card
13c2 100c Technotrend-Budget/Hauppauge WinTV-NOVA-CI DVB card

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	13c2 100f  Technotrend-Budget/Hauppauge WinTV-NOVA-CI DVB card
	13c2 1010  DVB C-1500
	13c2 1011  Technotrend-Budget/Hauppauge WinTV-NOVA-T DVB card
	13c2 1012  DVB T-1500
	13c2 1013  SATELCO Multimedia DVB
	13c2 1016  WinTV-NOVA-SE DVB card
	13c2 1018  DVB S-1401
	13c2 1019  S2-3200
	13c2 1102  Technotrend/Hauppauge DVB card rev2.1
	153b 1155  Cinergy 1200 DVB-S
	153b 1156  Cinergy 1200 DVB-C
	153b 1157  Cinergy 1200 DVB-T
	153b 1176  Cinergy 1200 DVB-C (MK3)
	1894 0020  KNC One DVB-C V1.0
	1894 0023  TVStation DVB-C plus
# http://www.knc1.com/gb.htm
	1894 0054  TV-Station DVB-S
	7160  SAA7160
	1458 9009  E8000 DVB-T/Analog TV/FM tuner
	1461
	1455  AVerTV Hybrid Speedy PCI-E (H788)
	7162  SAA7162
	11bd 0101  Pinnacle PCTV 7010iX TV Card
	7164  SAA7164
	0070 8800  WinTV HVR-2250
	0070 8810  WinTV HVR-2250
	0070 8851  WinTV HVR-2250
	0070 8853  WinTV HVR-2250
	0070 8880  WinTV HVR-2250
	0070 8891  WinTV HVR-2250
	0070 88a0  WinTV HVR-2250
	0070 88a1  WinTV HVR-2250
	0070 8900  WinTV HVR-2200
	0070 8901  WinTV HVR-2200
	0070 8940  WinTV HVR-2200 (submodel 89619)
	0070 8951  WinTV HVR-2200
	0070 8953  WinTV HVR-2200
	0070 8980  WinTV HVR-2200
	0070 8991  WinTV HVR-2200
	0070 8993  WinTV HVR-2200
	0070 89a0  WinTV HVR-2200
	0070 89a1  WinTV HVR-2200
	0070 f120  WinTV HVR-2205
	0070 f123  WinTV HVR-2215
	7231  SAA7231
	5ace 8000  Behold TV H8
	5ace 8001  Behold TV H8
	5ace 8050  Behold TV H85
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5ace 8051 Behold TV H85
5ace 8100 Behold TV A8
5ace 8101 Behold TV A8
5ace 8150 Behold TV A85
5ace 8151 Behold TV A85
5ace 8201 Behold TV T8
9730 SAA9730 Integrated Multimedia and Peripheral Controller
1131
0000 Integrated Multimedia and Peripheral Controller
1132 Mitel Corp.
1133 Dialogic Corporation
7701 Eiconcard C90
7711 Eiconcard C91
7901 EiconCard S90
7902 EiconCard S90
7911 EiconCard S91
7912 EiconCard S91
7921 Eiconcard S92
7941 EiconCard S94
7942 EiconCard S94
7943 EiconCard S94
7944 EiconCard S94
7945 Eiconcard S94
7948 Eiconcard S94 64bit/66MHz
9711 Eiconcard S91 V2
9911 Eiconcard S91 V2
9941 Eiconcard S94 V2
9a41 Eiconcard S94 PCIe
b921 EiconCard P92
b922 EiconCard P92
b923 EiconCard P92
e001 Diva Pro 2.0 S/T
e002 Diva 2.0 S/T PCI
e003 Diva Pro 2.0 U
e004 Diva 2.0 U PCI
e005 Diva 2.01 S/T PCI
e006 Diva CT S/T PCI
e007 Diva CT U PCI
e008 Diva CT Lite S/T PCI
e009 Diva CT Lite U PCI
e00a Diva ISDN+V.90 PCI
e00b Diva ISDN PCI 2.02
e00c Diva 2.02 PCI U
e00d Diva Pro 3.0 PCI
e00e Diva ISDN+CT S/T PCI Rev 2
e010 Diva Server BRI-2M PCI
110a 0021 Fujitsu Siemens ISDN S0
e011 Diva Server BRI S/T

Rev 2
e012 Diva Server 4BRI-8M PCI
e013 4BRI
 1133 1300 Diva V-4BRI-8 PCI v2
 1133 e013 Diva 4BRI-8 PCI v2
e014 Diva Server PRI-30M PCI
e015 Diva PRI PCI v2
e016 Diva Server Voice 4BRI PCI
e017 Diva Server Voice 4BRI Rev 2
 1133 e017 Diva Server Voice 4BRI-8M 2.0 PCI
e018 BRI
 1133 1800 Diva V-BRI-2 PCI v2
 1133 e018 Diva BRI-2 PCI v2
e019 Diva Server Voice PRI Rev 2
 1133 e019 Diva Server Voice PRI 2.0 PCI
e01a Diva BRI-2FX PCI v2
e01b Diva Server Voice BRI-2M 2.0 PCI
 1133 e01b Diva Server Voice BRI-2M 2.0 PCI
e01c PRI
 1133 1c01 Diva PRI/E1/T1-8 PCI v3
 1133 1c02 Diva PRI/T1-24 PCI(e) v3
 1133 1c03 Diva PRI/E1-30 PCI(e) v3
 1133 1c04 Diva PRI/E1/T1-CTI PCI(e) v3
 1133 1c05 Diva V-PRI/T1-24 PCI(e) v3
 1133 1c06 Diva V-PRI/E1-30 PCI(e) v3
 1133 1c07 Diva Server PRI/E1/T1-8 Cornet NQ
 1133 1c08 Diva Server PRI/T1-24 Cornet NQ
 1133 1c09 Diva Server PRI/E1-30 Cornet NQ
 1133 1c0a Diva Server PRI/E1/T1 Cornet NQ
 1133 1c0b Diva
Server V-PRI/T1-24 Cornet NQ
 1133 1c0c Diva Server V-PRI/E1-30 Cornet NQ
e01e 2PRI
 1133 1e01 Diva 2PRI/E1/T1-60 PCI v1
 1133 e01e Diva V-2PRI/E1/T1-60 PCI v1
e020 4PRI
 1133 2001 Diva 4PRI/E1/T1-120 PCI v1
 1133 e020 Diva V-4PRI/E1/T1-120 PCI v1
e022 Analog-2
 1133 2200 Diva V-Analog-2 PCI v1
 1133 e022 Diva Analog-2 PCI v1
e024 Analog-4
 1133 2400 Diva V-Analog-4 PCI v1
 1133 e024 Diva Analog-4 PCI v1
e028 Analog-8
 1133 2800 Diva V-Analog-8 PCI v1
 1133 e028 Diva Analog-8 PCI v1
e02a Diva IPM-300 PCI v1

e02c Diva IPM-600 PCI v1
e02e 4BRI
1133 2e01 Diva V-4BRI-8 PCIe v2
1133 e02e Diva 4BRI-8 PCIe v2
e032 BRI
1133 3201 Diva V-BRI-2 PCIe v2
1133 e032 Diva BRI-2 PCIe v2
e034 Diva BRI-CTI PCI v2
1134 Mercury Computer Systems
0001 Raceway Bridge
0002 Dual PCI to RapidIO Bridge
000b POET Serial RapidIO Bridge
000d POET PSDMS Device
1135 Fuji Xerox Co Ltd
0001 Printer controller
1136 Momentum Data Systems
0002 PCI-JTAG
1137
Cisco Systems Inc
0023 VIC 81 PCIe Upstream Port
0040 VIC PCIe Upstream Port
1137 004f VIC 1280 Dual 40Gb Mezzanine
1137 0084 VIC 1240 Dual 40Gb MLOM
1137 0085 VIC 1225 Dual 10Gb SFP+ PCIe
1137 00cd VIC 1285 Dual 40Gb QSFP+ PCIe
1137 00ce VIC 1225T Dual 10GBaseT PCIe
1137 012a VIC M4308 Dual 40Gb
1137 012c VIC 1340 Dual 40Gb MLOM
1137 012e VIC 1227 Dual 10Gb SFP+ PCIe
1137 0137 VIC 1380 Dual 40Gb Mezzanine
1137 014d VIC 1385 Dual 40Gb PCIe
0041 VIC PCIe Downstream Port
0042 VIC Management Controller
1137 0047 VIC P81E PCIe Management Controller
1137 0085 VIC 1225 PCIe Management Controller
1137 00cd VIC 1285 PCIe Management Controller
1137 00ce VIC 1225T PCIe Management Controller
1137 012e VIC 1227 PCIe Management Controller
1137 014d VIC 1385 PCIe Management Controller
0043 VIC Ethernet NIC
1137 0047 VIC P81E PCIe Ethernet NIC
1137 0048 VIC M81KR Mezzanine Ethernet NIC
1137 004f VIC 1280 Mezzanine Ethernet NIC
1137
0084 VIC 1240 MLOM Ethernet NIC
1137 0085 VIC 1225 PCIe Ethernet NIC
1137 00cd VIC 1285 PCIe Ethernet NIC
1137 00ce VIC 1225T PCIe Ethernet NIC

1137 012a VIC M4308 Ethernet NIC
1137 012c VIC 1340 MLOM Ethernet NIC
1137 012e VIC 1227 PCIe Ethernet NIC
1137 0137 VIC 1380 Mezzanine Ethernet NIC
1137 014d VIC 1385 PCIe Ethernet NIC
1137 015d VIC 1387 MLOM Ethernet NIC
1137 0215 VIC 1440 Mezzanine Ethernet NIC
1137 0216 VIC 1480 MLOM Ethernet NIC
1137 0217 VIC 1455 PCIe Ethernet NIC
1137 0218 VIC 1457 MLOM Ethernet NIC
1137 0219 VIC 1485 PCIe Ethernet NIC
1137 021a VIC 1487 MLOM Ethernet NIC
1137 024a VIC 1495 PCIe Ethernet NIC
1137 024b VIC 1497 MLOM Ethernet NIC
0044 VIC Ethernet NIC Dynamic
1137 0047 VIC P81E PCIe Ethernet NIC Dynamic
1137 0048 VIC M81KR Mezzanine Ethernet NIC Dynamic
1137 004f VIC 1280 Mezzanine Ethernet NIC Dynamic
1137 0084 VIC 1240 MLOM Ethernet NIC Dynamic
1137 0085 VIC 1225 PCIe Ethernet NIC
Dynamic
1137 00cd VIC 1285 PCIe Ethernet NIC Dynamic
1137 00ce VIC 1225T PCIe Ethernet NIC Dynamic
1137 012a VIC M4308 Ethernet NIC Dynamic
1137 012c VIC 1340 MLOM Ethernet NIC Dynamic
1137 012e VIC 1227 PCIe Ethernet NIC Dynamic
1137 0137 VIC 1380 Mezzanine Ethernet NIC Dynamic
1137 014d VIC 1385 PCIe Ethernet NIC Dynamic
0045 VIC FCoE HBA
1137 0047 VIC P81E PCIe FCoE HBA
1137 0048 VIC M81KR Mezzanine FCoE HBA
1137 004f VIC 1280 Mezzanine FCoE HBA
1137 0084 VIC 1240 MLOM FCoE HBA
1137 0085 VIC 1225 PCIe FCoE HBA
1137 00cd VIC 1285 PCIe FCoE HBA
1137 00ce VIC 1225T PCIe FCoE HBA
1137 012a VIC M4308 FCoE HBA
1137 012c VIC 1340 MLOM FCoE HBA
1137 012e VIC 1227 PCIe FCoE HBA
1137 0137 VIC 1380 Mezzanine FCoE HBA
1137 014d VIC 1385 PCIe FCoE HBA
0046 VIC SCSI Controller
1137 012a VIC M4308 SCSI Controller
004e VIC 82 PCIe Upstream Port
0071 VIC SR-IOV VF
007a VIC 1300 PCIe Upstream Port
1137 012a VIC M4308 Dual 40Gb
1137

012c VIC 1340 Dual 40Gb MLOM
1137 0137 VIC 1380 Dual 40Gb Mezzanine
1137 014d VIC 1385 Dual 40Gb PCIe
00cf VIC Userspace NIC
1137 004f VIC 1280 Mezzanine Userspace NIC
1137 0084 VIC 1240 MLOM Userspace NIC
1137 0085 VIC 1225 PCIe Userspace NIC
1137 00cd VIC 1285 PCIe Userspace NIC
1137 00ce VIC 1225T PCIe Userspace NIC
1137 012a VIC M4308 Userspace NIC
1137 012c VIC 1340 MLOM Userspace NIC
1137 012e VIC 1227 PCIe Userspace NIC
1137 0137 VIC 1380 Mezzanine Userspace NIC
023e 1GigE I350 LOM
1138 Ziatech Corporation
8905 8905 [STD 32 Bridge]
1139 Dynamic Pictures, Inc
0001 VGA Compatible 3D Graphics
113a FWB Inc
113b Network Computing Devices
113c Cyclone Microsystems, Inc.
0000 PCI-9060 i960 Bridge
0001 PCI-SDK [PCI i960 Evaluation Platform]
0911 PCI-911 [i960Jx-based Intelligent I/O Controller]
0912 PCI-912 [i960CF-based Intelligent I/O Controller]
0913 PCI-913
0914 PCI-914 [I/O Controller w/ secondary PCI bus]
113d Leading
Edge Products Inc
113e Sanyo Electric Co - Computer Engineering Dept
113f Equinox Systems, Inc.
0808 SST-64P Adapter
1010 SST-128P Adapter
80c0 SST-16P DB Adapter
80c4 SST-16P RJ Adapter
80c8 SST-16P Adapter
8888 SST-4P Adapter
9090 SST-8P Adapter
1140 Intervoice Inc
1141 Crest Microsystem Inc
1142 Alliance Semiconductor Corporation
3210 AP6410
6422 ProVideo 6422
6424 ProVideo 6424
6425 ProMotion AT25
643d ProMotion AT3D
1143 NetPower, Inc
1144 Cincinnati Milacron

0001 Noservo controller
1145 Workbit Corporation
8007 NinjaSCSI-32 Workbit
f007 NinjaSCSI-32 KME
f010 NinjaSCSI-32 Workbit
f012 NinjaSCSI-32 Logitec
f013 NinjaSCSI-32 Logitec
f015 NinjaSCSI-32 Melco
f020 NinjaSCSI-32 Sony PCGA-DVD51
f021 NinjaPATA-32 Delkin Cardbus UDMA
f024 NinjaPATA-32 Delkin Cardbus UDMA
f103 NinjaPATA-32 Delkin Cardbus UDMA
1146 Force Computers
1147 Interface Corp
Nee Schneider & Koch
1148 SysKonnect
4000 FDDI Adapter
0e11 b03b Netelligent
100 FDDI DAS Fibre SC
0e11 b03c Netelligent 100 FDDI SAS Fibre SC
0e11 b03d Netelligent 100 FDDI DAS UTP
0e11 b03e Netelligent 100 FDDI SAS UTP
0e11 b03f Netelligent 100 FDDI SAS Fibre MIC
1148 5521 FDDI SK-5521 (SK-NET FDDI-UP)
1148 5522 FDDI SK-5522 (SK-NET FDDI-UP DAS)
1148 5541 FDDI SK-5541 (SK-NET FDDI-FP)
1148 5543 FDDI SK-5543 (SK-NET FDDI-LP)
1148 5544 FDDI SK-5544 (SK-NET FDDI-LP DAS)
1148 5821 FDDI SK-5821 (SK-NET FDDI-UP64)
1148 5822 FDDI SK-5822 (SK-NET FDDI-UP64 DAS)
1148 5841 FDDI SK-5841 (SK-NET FDDI-FP64)
1148 5843 FDDI SK-5843 (SK-NET FDDI-LP64)
1148 5844 FDDI SK-5844 (SK-NET FDDI-LP64 DAS)
4200 Token Ring adapter
4300 SK-9872 Gigabit Ethernet Server Adapter (SK-NET GE-ZX dual link)
1148 9821 SK-9821 Gigabit Ethernet Server Adapter (SK-NET GE-T)
1148 9822 SK-9822 Gigabit Ethernet Server Adapter (SK-NET GE-T dual link)
1148 9841 SK-9841 Gigabit Ethernet Server Adapter (SK-NET GE-LX)
1148 9842 SK-9842 Gigabit Ethernet
Server Adapter (SK-NET GE-LX dual link)
1148 9843 SK-9843 Gigabit Ethernet Server Adapter (SK-NET GE-SX)
1148 9844 SK-9844 Gigabit Ethernet Server Adapter (SK-NET GE-SX dual link)
1148 9861 SK-9861 Gigabit Ethernet Server Adapter (SK-NET GE-SX Volition)
1148 9862 SK-9862 Gigabit Ethernet Server Adapter (SK-NET GE-SX Volition dual link)
1148 9871 SK-9871 Gigabit Ethernet Server Adapter (SK-NET GE-ZX)
1148 9872 SK-9872 Gigabit Ethernet Server Adapter (SK-NET GE-ZX dual link)
1259 2970 AT-2970SX Gigabit Ethernet Adapter
1259 2971 AT-2970LX Gigabit Ethernet Adapter

1259 2972 AT-2970TX Gigabit Ethernet Adapter
1259 2973 AT-2971SX Gigabit Ethernet Adapter
1259 2974 AT-2971T Gigabit Ethernet Adapter
1259 2975 AT-2970SX/2SC Gigabit Ethernet Adapter
1259 2976 AT-2970LX/2SC Gigabit Ethernet Adapter
1259 2977 AT-2970TX/2TX Gigabit Ethernet Adapter
4320 SK-98xx V2.0 Gigabit Ethernet Adapter [Marvell 88E8001]
1148 0121 Marvell RDK-8001 Adapter
1148
0221 Marvell RDK-8002 Adapter
1148 0321 Marvell RDK-8003 Adapter
1148 0421 Marvell RDK-8004 Adapter
1148 0621 Marvell RDK-8006 Adapter
1148 0721 Marvell RDK-8007 Adapter
1148 0821 Marvell RDK-8008 Adapter
1148 0921 Marvell RDK-8009 Adapter
1148 1121 Marvell RDK-8011 Adapter
1148 1221 Marvell RDK-8012 Adapter
1148 3221 SK-9521 V2.0 10/100/1000Base-T Adapter
1148 5021 SK-9821 V2.0 Gigabit Ethernet 10/100/1000Base-T Adapter
1148 5041 SK-9841 V2.0 Gigabit Ethernet 1000Base-LX Adapter
1148 5043 SK-9843 V2.0 Gigabit Ethernet 1000Base-SX Adapter
1148 5051 SK-9851 V2.0 Gigabit Ethernet 1000Base-SX Adapter
1148 5061 SK-9861 V2.0 Gigabit Ethernet 1000Base-SX Adapter
1148 5071 SK-9871 V2.0 Gigabit Ethernet 1000Base-ZX Adapter
1148 9521 SK-9521 10/100/1000Base-T Adapter
1259 2916 AT-2916T
4400 SK-9Dxx Gigabit Ethernet Adapter
4500 SK-9Mxx Gigabit Ethernet Adapter
9000 SK-9Sxx Gigabit Ethernet Server Adapter PCI-X [Marvell 88E8022]
1148
2100 SK-9S21 10/100/1000Base-T Server Adapter, PCI-X, Copper RJ-45
1148 2200 SK-9S22 10/100/1000Base-T Dual Port Server Adapter, PCI-X, 2 Copper RJ-45
1148 2210 SK-9P22 10/100/1000 Base-T Dual Port PMC card
1148 2220 TPMC-GBE-CO
1148 8100 SK-9S81 1000Base-SX Server Adapter,PCI-X, Fiber SX/LC
1148 8200 SK-9S82 1000Base-SX Dual Port Server Adapter, PCI-X, 2 Fiber SX/LC
1148 8210 SK-9P82 1000 Base-SX Dual Port PMC card
1148 8220 TPMC-GBE-FI
1148 9100 SK-9S91 1000Base-LX Server Adapter,PCI-X, Fiber LX/LC
1148 9200 SK-9S92 1000Base-LX Dual Port Server Adapter, PCI-X, 2 Fiber LX/LC
1259 2973 AT-2971SX v2 Gigabit Adapter
1259 2974 AT-2971T v2 Gigabit Adapter
1259 2978 AT-2971LX Gigabit Adapter
9843 [Fujitsu] Gigabit Ethernet
9e00 SK-9E21D 10/100/1000Base-T Adapter, Copper RJ-45
1148 2100 SK-9E21 Server Adapter
1148 21d0 SK-9E21D 10/100/1000Base-T Adapter

1148 2200 SK-9E22 Server Adapter
1148 8100 SK-9E81 Server Adapter
1148 8200 SK-9E82
Server Adapter
1148 9100 SK-9E91 Server Adapter
1148 9200 SK-9E92 Server Adapter
9e01 SK-9E21M 10/100/1000Base-T Adapter
1149 Win System Corporation
114a VMIC
5565 GE-IP PCI5565,PMC5565 Reflective Memory Node
5579 VMIPCI-5579 (Reflective Memory Card)
5587 VMIPCI-5587 (Reflective Memory Card)
6504 VMIC PCI 7755 FPGA
7587 VMIVME-7587
114b Canopus Co., Ltd
114c Annabooks
114d IC Corporation
114e Nikon Systems Inc
114f Digi International
0002 AccelePort EPC
0003 RightSwitch SE-6
0004 AccelePort Xem
0005 AccelePort Xr
0006 AccelePort Xr,C/X
0009 AccelePort Xr/J
000a AccelePort EPC/J
000c DataFirePRIme T1 (1-port)
000d SyncPort 2-Port (x.25/FR)
0011 AccelePort 8r EIA-232 (IBM)
0012 AccelePort 8r EIA-422
0013 AccelePort Xr
0014 AccelePort 8r EIA-422
0015 AccelePort Xem
0016 AccelePort EPC/X
0017 AccelePort C/X
001a DataFirePRIme E1 (1-port)
001b AccelePort C/X (IBM)
001c AccelePort Xr (SAIP)
001d DataFire RAS T1/E1/PRI
114f
0050 DataFire RAS E1 Adapter
114f 0051 DataFire RAS Dual E1 Adapter
114f 0052 DataFire RAS T1 Adapter
114f 0053 DataFire RAS Dual T1 Adapter
0023 AccelePort RAS
0024 DataFire RAS B4 ST/U
114f 0030 DataFire RAS BRI U Adapter
114f 0031 DataFire RAS BRI S/T Adapter

0026 AccelePort 4r 920
0027 AccelePort Xr 920
0028 ClassicBoard 4
0029 ClassicBoard 8
0034 AccelePort 2r 920
0035 DataFire DSP T1/E1/PRI cPCI
0040 AccelePort Xp
114f 0042 AccelePort 2p PCI
114f 0043 AccelePort 4p PCI
114f 0044 AccelePort 8p PCI
114f 0045 AccelePort 16p PCI
114f 004e AccelePort 32p PCI
0042 AccelePort 2p
0043 AccelePort 4p
0044 AccelePort 8p
0045 AccelePort 16p
004e AccelePort 32p
0070 Datafire Micro V IOM2 (Europe)
0071 Datafire Micro V (Europe)
0072 Datafire Micro V IOM2 (North America)
0073 Datafire Micro V (North America)
00b0 Digi Neo 4
00b1 Digi Neo 8
00c8 Digi Neo 2 DB9
00c9 Digi Neo 2 DB9 PRI
00ca Digi Neo 2 RJ45
00cb Digi Neo
2 RJ45 PRI
00cc Digi Neo 1 422
00cd Digi Neo 1 422 485
00ce Digi Neo 2 422 485
00d0 ClassicBoard 4 422
00d1 ClassicBoard 8 422
00f1 Digi Neo PCI-E 4 port
00f4 Digi Neo 4 (IBM version)
6001 Avanstar
1150 Thinking Machines Corp
1151 JAE Electronics Inc.
1152 Megatek
1153 Land Win Electronic Corp
1154 Melco Inc
1155 Pine Technology Ltd
1156 Periscope Engineering
1157 Avsys Corporation
1158 Voarx R & D Inc
3011 Tokenet/vg 1001/10m anylan
9050 Lanfleet/Truevalue
9051 Lanfleet/Truevalue

1159 MuTech Corporation
0001 MV-1000
0002 MV-1500
115a Harlequin Ltd
115b Parallax Graphics
115c Photron Ltd.
115d Xircom
0003 Cardbus Ethernet 10/100
1014 0181 10/100 EtherJet Cardbus Adapter
1014 1181 10/100 EtherJet Cardbus Adapter
1014 8181 10/100 EtherJet Cardbus Adapter
1014 9181 10/100 EtherJet Cardbus Adapter
115d 0181 Cardbus Ethernet 10/100
115d 0182 RealPort2 CardBus Ethernet 10/100 (R2BE-100)
115d 1181 Cardbus Ethernet 10/100
1179
0181 Cardbus Ethernet 10/100
8086 8181 EtherExpress PRO/100 Mobile CardBus 32 Adapter
8086 9181 EtherExpress PRO/100 Mobile CardBus 32 Adapter
0005 Cardbus Ethernet 10/100
1014 0182 10/100 EtherJet Cardbus Adapter
1014 1182 10/100 EtherJet Cardbus Adapter
115d 0182 Cardbus Ethernet 10/100
115d 1182 Cardbus Ethernet 10/100
0007 Cardbus Ethernet 10/100
1014 0182 10/100 EtherJet Cardbus Adapter
1014 1182 10/100 EtherJet Cardbus Adapter
115d 0182 Cardbus Ethernet 10/100
115d 1182 Cardbus Ethernet 10/100
000b Cardbus Ethernet 10/100
1014 0183 10/100 EtherJet Cardbus Adapter
115d 0183 Cardbus Ethernet 10/100
000c Mini-PCI V.90 56k Modem
000f Cardbus Ethernet 10/100
1014 0183 10/100 EtherJet Cardbus Adapter
115d 0183 Cardbus Ethernet 10/100
00d4 Mini-PCI K56Flex Modem
0101 Cardbus 56k modem
115d 1081 Cardbus 56k Modem
0103 Cardbus Ethernet + 56k Modem
1014 9181 Cardbus 56k Modem
1115 1181 Cardbus Ethernet 100 + 56k Modem
115d
1181 CBEM56G-100 Ethernet + 56k Modem
8086 9181 PRO/100 LAN + Modem56 CardBus
115e Peer Protocols Inc
115f Maxtor Corporation
1160 Megasoft Inc

1161 PFU Limited
1162 OA Laboratory Co Ltd
1163 Rendition
0001 Verite 1000
2000 Verite V2000/V2100/V2200
1092 2000 Stealth II S220
1164 Advanced Peripherals Technologies
1165 Imagraph Corporation
0001 Motion TPEG Recorder/Player with audio
nee ServerWorks
1166 Broadcom
0000 CMIC-LE
0005 CNB20-LE Host Bridge
0006 CNB20HE Host Bridge
0007 CNB20-LE Host Bridge
0008 CNB20HE Host Bridge
0009 CNB20LE Host Bridge
0010 CIOB30
0011 CMIC-HE
0012 CMIC-WS Host Bridge (GC-LE chipset)
0013 CNB20-HE Host Bridge
0014 CMIC-LE Host Bridge (GC-LE chipset)
0015 CMIC-GC Host Bridge
0016 CMIC-GC Host Bridge
0017 GCNB-LE Host Bridge
0031 HT1100 HPX0 HT Host Bridge
0036 BCM5785 [HT1000] PCI/PCI-X Bridge
0101 CIOB-X2 PCI-X I/O Bridge
0103 EPB PCI-Express to PCI-X Bridge
0104 BCM5785 [HT1000] PCI/PCI-X Bridge
0110
CIOB-E I/O Bridge with Gigabit Ethernet
0130 BCM5780 [HT2000] PCI-X bridge
0132 BCM5780 [HT2000] PCI-Express Bridge
1166 0132 HT2000 PCI-Express bridge
0140 HT2100 PCI-Express Bridge
0141 HT2100 PCI-Express Bridge
0142 HT2100 PCI-Express Bridge
0144 HT2100 PCI-Express Bridge
0200 OSB4 South Bridge
0201 CSB5 South Bridge
4c53 1080 CT8 mainboard
0203 CSB6 South Bridge
1734 1012 PRIMERGY RX/TX series
0205 BCM5785 [HT1000] Legacy South Bridge
0211 OSB4 IDE Controller
0212 CSB5 IDE Controller
1028 014a PowerEdge 1750

```
	1028 810b  PowerEdge 1650/2550
	4c53 1080  CT8 mainboard
	0213  CSB6 RAID/IDE Controller
	1028 4134  PowerEdge 600SC
	1028 c134  Poweredge SC600
	1734 1012  PRIMERGY RX/TX series onboard IDE
	0214  BCM5785 [HT1000] IDE
	1028 0205  PowerEdge 2970 HT1000 IDE
	0217  CSB6 IDE Controller
	1028 4134  Poweredge SC600
	021b  HT1100 HD Audio
	0220  OSB4/CSB5 OHCI USB Controller
	4c53 1080  CT8 mainboard
	0221  CSB6 OHCI USB Controller
	1734
	1012  PRIMERGY RX/TX series onboard OHCI
	0223  BCM5785 [HT1000] USB
	1028 0205  PowerEdge 2970 HT1000 USB Controller
	1028 020b  PowerEdge T605 HT1000 USB Controller
	0225  CSB5 LPC bridge
	0227  GCLE-2 Host Bridge
	1734 1012  PRIMERGY RX/TX series
	0230  CSB5 LPC bridge
	4c53 1080  CT8 mainboard
	0234  BCM5785 [HT1000] LPC
	1028 0205  PowerEdge 2970 HT1000 LPC
	1028 020b  PowerEdge T605 HT1000 LPC
	0235  BCM5785 [HT1000] XIOAPIC0-2
	0238  BCM5785 [HT1000] WDTimer
	0240  K2 SATA
	0241  RAIDCore RC4000
	0242  RAIDCore BC4000
	024a  BCM5785 [HT1000] SATA (Native SATA Mode)
	1028 020b  PowerEdge T605 onboard SATA Controller
	# The device starts as 024A, and changes to 024B if set to PATA mode in BIOS
	024b  BCM5785 [HT1000] SATA (PATA/IDE Mode)
	1028 0205  PowerEdge 2970 HT1000 SATA controller
	0406  HT1100 PCI-X Bridge
	0408  HT1100 Legacy Device
	040a  HT1100 ISA-LPC Bridge
	1028 0223  PowerEdge R905 HT1100 ISA-LPC Bridge
	0410  HT1100 SATA Controller (Native SATA Mode)
	0411
	HT1100 SATA Controller (PATA / IDE Mode)
	0412  HT1100 USB OHCI Controller
	0414  HT1100 USB EHCI Controller
	0416  HT1100 USB EHCI Controller (with Debug Port)
	0420  HT1100 PCI-Express Bridge
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0421 HT1100 SAS/SATA Controller
0422 HT1100 PCI-Express Bridge
1167 Mutoh Industries Inc
1168 Thine Electronics Inc
1169 Centre for Development of Advanced Computing
nee Polaris Communications
116a Luminex Software, Inc.
6100 Bus/Tag Channel
6800 Escon Channel
7100 Bus/Tag Channel
7800 Escon Channel
116b Connectware Inc
116c Intelligent Resources Integrated Systems
116d Martin-Marietta
116e Electronics for Imaging
116f Workstation Technology
1170 Inventec Corporation
1171 Loughborough Sound Images Plc
1172 Altera Corporation
00a7 Stratix V
0530 Stratix IV
1173 Adobe Systems, Inc
1174 Bridgeport Machines
1175 Mitron Computer Inc.
1176 SBE Incorporated
1177 Silicon Engineering
1178 Alfa, Inc.
afa1 Fast Ethernet Adapter
1179 Toshiba Corporation
0102
Extended IDE Controller
0103 EX-IDE Type-B
010f NVMe Controller
0110 NVMe SSD Controller Cx5
1028 1ffb Express Flash NVMe 960G (RI) U.2 (CD5)
1028 1ffc Express Flash NVMe 1.92T (RI) U.2 (CD5)
1028 1ffd Express Flash NVMe 3.84T (RI) U.2 (CD5)
1028 1ffe Express Flash NVMe 7.68T (RI) U.2 (CD5)
1179 0001 KIOXIA CM5-R series SSD
1179 0021 KIOXIA CD5 series SSD
1d49 4039 Thinksystem U.2 CM5 NVMe SSD
1d49 403a Thinksystem AIC CM5 NVMe SSD
0113 BG3 NVMe SSD Controller
0115 XG4 NVMe SSD Controller
0404 DVD Decoder card
0406 Tecra Video Capture device
0407 DVD Decoder card (Version 2)
0601 CPU to PCI bridge

1179 0001 Satellite Pro
0602 PCI to ISA bridge
0603 ToPIC95 PCI to CardBus Bridge for Notebooks
0604 PCI-Docking Host bridge
060a ToPIC95
1179 0001 Satellite Pro
060f ToPIC97
1179 0001 Satellite 4010
0617 ToPIC100 PCI to Cardbus Bridge with ZV Support
0618 CPU to PCI and PCI to ISA bridge
0701 FIR Port Type-O
0803 TC6371AF
SD Host Controller
0804 TC6371AF SmartMedia Controller
0805 SD TypA Controller
0d01 FIR Port Type-DO
1179 0001 FIR Port Type-DO
117a A-Trend Technology
117b L G Electronics, Inc.
117c ATTO Technology, Inc.
002c ExpressSAS R380
002d ExpressSAS R348
0030 Ultra320 SCSI Host Adapter
117c 8013 ExpressPCI UL4D
117c 8014 ExpressPCI UL4S
117c 8027 ExpressPCI UL5D
117c 802f ExpressPCI UL5D Low Profile
0033 SAS Adapter
0041 ExpressSAS R30F
0042 ExpressSAS 6Gb/s SAS/SATA HBA
117c 0042 ExpressSAS H680
117c 0043 ExpressSAS H608
117c 0044 ExpressSAS H60F
117c 0045 ExpressSAS H6F0
117c 0046 ExpressSAS H644
117c 004f ExpressSAS M608
117c 0057 ExpressSAS M680
117c 0058 ExpressSAS M644
117c 0059 ExpressSAS W608
117c 005a ExpressSAS W680
117c 005b ExpressSAS W644
0049 ExpressSAS 6Gb SAS/SATA RAID Adapter
117c 0049 ExpressSAS R680
117c 004a ExpressSAS R608
117c 004b ExpressSAS R60F
117c 004c ExpressSAS R6F0
117c 004d ExpressSAS

R644
117c 004e ExpressSAS R648
0064 Celerity FC 16Gb/s Gen 5 Fibre Channel HBA
117c 0063 Celerity FC-161E
117c 0064 Celerity FC-162E
117c 0065 Celerity FC-164E
0094 Celerity FC 16/32Gb/s Gen 6 Fibre Channel HBA
117c 0094 Celerity FC-162P
117c 00a0 Celerity FC-161P
117c 00a1 Celerity FC-164P
117c 00a2 Celerity FC-321E
117c 00a3 Celerity FC-322E
117c 00ac Celerity FC-324E
8013 ExpressPCI UL4D
8014 ExpressPCI UL4S
8027 ExpressPCI UL5D
8070 ExpressSAS 12Gb/s SAS/SATA HBA
117c 0070 ExpressSAS H1280
117c 0071 ExpressSAS H1208
117c 0080 ExpressSAS H1244
8072 ExpressSAS 12Gb/s SAS/SATA HBA
117c 0072 ExpressSAS H12F0
117c 0073 ExpressSAS H120F
117c 0082 ExpressSAS H1288
117d Becton & Dickinson
117e T/R Systems
117f Integrated Circuit Systems
1180 Ricoh Co Ltd
0465 RL5c465
0466 RL5c466
0475 RL5c475
144d c006 vpr Matrix 170B4 CardBus bridge
0476 RL5c476 II
1014 0185 ThinkPad A/T/X Series
1014 0555 ThinkPad
X41
1014 056c ThinkPad Z60t
1028 014f Latitude X300 laptop
1028 0188 Inspiron 6000 laptop
103c 30c0 Compaq 6710b
103c 30c1 Compaq 6910p
1043 1017 X58LE
1043 1237 A6J-Q008
1043 1967 V6800V
1043 1987 A4K and Z81K notebooks, possibly others (mid-2005 machines)
104d 80df Vaio PCG-FX403
104d 80e7 VAIO PCG-GR214EP/GR214MP/GR215MP/GR314MP/GR315MP
104d 814e VAIO GRZ390Z

10f7 8338 Panasonic CF-Y5 laptop
144d c005 X10 Laptop
144d c00c P30/P35 notebook
14ef 0220 PCD-RP-220S
17aa 201c ThinkPad X60/X60s
17aa 20c4 ThinkPad T61/R61
17aa 20c6 ThinkPad R61/T400
0477 RL5c477
0478 RL5c478
1014 0184 ThinkPad A30p
0511 R5C511
0522 R5C522 IEEE 1394 Controller
1014 01cf ThinkPad A30p
1043 1967 V6800V
0551 R5C551 IEEE 1394 Controller
144d c006 vpr Matrix 170B4
0552 R5C552 IEEE 1394 Controller
1014 0511 ThinkPad A/T/X Series
1028 014f Latitude X300 laptop
1028 0188 Inspiron 6000 laptop
1043 1237 A6J-Q008
1043 1757
M2400N laptop
144d c005 X10 Laptop
144d c00c P30/P35 notebook
17aa 201e ThinkPad X60/X60s
0554 R5C554
0575 R5C575 SD Bus Host Adapter
0576 R5C576 SD Bus Host Adapter
0592 R5C592 Memory Stick Bus Host Adapter
1025 0121 Aspire 5920G
1028 01d7 XPS M1210
1028 01f3 Inspiron 1420
1028 022f Inspiron 1525
103c 1521 HP EliteBook 8540w
103c 30b5 Presario V3242AU
103c 30b7 Presario V6133CL
103c 30cc Pavilion dv6700
103c 30cf Pavilion dv95xx/96xx/97xx/98xx series
1043 1017 X58LE
1043 1237 A6J-Q008
1043 1967 V6800V
104d 9035 VAIO VGN-FW11ZRU
144d c018 X20 IV
17aa 20ca ThinkPad T61/T400
0811 R5C811
0822 R5C822 SD/SDIO/MMC/MS/MSPro Host Adapter
1014 0556 ThinkPad X40 / X41 / X60s / Z60t

1014 0598 ThinkPad Z60m
1025 0121 Aspire 5920G
1028 0188 Inspiron 6000 laptop
1028 01a2 Inspiron 9200
1028 01d7 XPS M1210
1028 01f3 Inspiron 1420
1028 022f Inspiron 1525
103c 03b5 Presario V3242AU
103c 30b7 Presario V6133CL
103c
30c1 Compaq 6910p
103c 30cc Pavilion dv6700
103c 30cf Pavilion dv9668eg Laptop
1043 1017 X58LE
1043 1237 A6J-Q008
1043 1967 V6800V
10f7 8338 Panasonic CF-Y5 laptop
144d c018 X20 IV
17aa 201d ThinkPad X60/X60s
17aa 20c7 ThinkPad T61
17aa 20c8 ThinkPad T400/W500
0832 R5C832 IEEE 1394 Controller
1025 0121 Aspire 5920G
1028 01d7 XPS M1210
1028 01f3 Inspiron 1420
1028 022f Inspiron 1525
1028 024d Latitude E4300
103c 30b5 Presario V3242AU
103c 30b7 Presario V6133CL
103c 30c1 Compaq 6910p
103c 30cc Pavilion dv6700
103c 30cf Pavilion dv9668eg Laptop
17aa 20c5 ThinkPad R61
17aa 20c7 ThinkPad R61
0841 R5C841 CardBus/SD/SDIO/MMC/MS/MSPro/xD/IEEE1394
0843 R5C843 MMC Host Controller
1025 0121 Aspire 5920G
1028 01d7 XPS M1210
1028 01f3 Inspiron 1420
1028 01f5 Inspiron 1501
1028 024f Latitude e6500
103c 03b5 Presario V3242AU
103c 1521 HP EliteBook 8540w
103c 30b7 Presario V6133CL
103c 30cf Pavilion
dv9500/9600/9700 series
1043 1017 X58LE
1183 0843 Alienware Aurora m9700

0852 xD-Picture Card Controller
1025 0121 Aspire 5920G
1028 01f3 Inspiron 1420
1028 022f Inspiron 1525
103c 30b5 Presario V3242AU
103c 30b7 Presario V6133CL
103c 30cc Pavilion dv6700
103c 30cf Pavilion dv9668eg Laptop
1043 1967 V6800V
1180 0852 Pavilion 2410us
1324 10cf P7120
17aa 20cb ThinkPad T400
e230 R5U2xx (R5U230 / R5U231 / R5U241) [Memory Stick Host Controller]
e476 CardBus bridge
1028 040a Latitude E6410
1028 040b Latitude E6510
e822 MMC/SD Host Controller
1028 040a Latitude E6410
1028 040b Latitude E6510
17aa 21cf ThinkPad T520
e823 PCIe SDXC/MMC Host Controller
17aa 21cf ThinkPad T520
e832 R5C832 PCIe IEEE 1394 Controller
1028 040a Latitude E6410
1028 040b Latitude E6510
17aa 21cf ThinkPad T520
e852 PCIe xD-Picture Card Controller
1181 Telmatics International
1183 Fujikura Ltd
1184 Forks Inc
1185 Dataworld International
Ltd
1186 D-Link System Inc
1002 DL10050 Sundance Ethernet
1186 1002 DFE-550TX/FX
1186 1012 DFE-580TX
1025 AirPlus Xtreme G DWL-G650 Adapter
1026 AirXpert DWL-AG650 Wireless Cardbus Adapter
1043 AirXpert DWL-AG650 Wireless Cardbus Adapter
1300 RTL8139 Ethernet
1186 1300 DFE-538TX 10/100 Ethernet Adapter
1186 1301 DFE-530TX+ 10/100 Ethernet Adapter
1186 1303 DFE-528TX 10/100 Fast Ethernet PCI Adapter
1340 DFE-690TXD CardBus PC Card
1540 DFE-680TX
1541 DFE-680TXD CardBus PC Card
1561 DRP-32TXD Cardbus PC Card
3300 DWL-510 / DWL-610 802.11b [Realtek RTL8180L]

1186 3300 DWL-610 Wireless Cardbus Adapter
1186 3301 DWL-510 Wireless PCI Adapter
3a10 AirXpert DWL-AG650 Wireless Cardbus Adapter(rev.B)
3a11 AirXpert DWL-AG520 Wireless PCI Adapter(rev.B)
4000 DL2000-based Gigabit Ethernet
4001 DGE-550SX PCI-X Gigabit Ethernet Adapter
4200 DFE-520TX Fast Ethernet PCI Adapter
1186 1103 DFE-520TX Fast Ethernet PCI Adapter (rev. C1)
4300 DGE-528T
Gigabit Ethernet Adapter
1186 4300 DGE-528T PCI Gigabit Ethernet Adapter
rev. B1; RealTek RTL8168E.
1186 4b10 DGE-560T PCI Express (x1) Gigabit Ethernet Adapter
4302 DGE-530T Gigabit Ethernet Adapter (rev.C1) [Realtek RTL8169]
4b00 DGE-560T PCI Express Gigabit Ethernet Adapter
4b01 DGE-530T Gigabit Ethernet Adapter (rev 11)
4b02 DGE-560SX PCI Express Gigabit Ethernet Adapter
4b03 DGE-550T Gigabit Ethernet Adapter V.B1
4c00 Gigabit Ethernet Adapter
1186 4c00 DGE-530T Gigabit Ethernet Adapter
8400 D-Link DWL-650+ CardBus PC Card
1187 Advanced Technology Laboratories, Inc.
1188 Shima Seiki Manufacturing Ltd.
1189 Matsushita Electronics Co Ltd
118a Hilevel Technology
118b Hypertec Pty Limited
118c Corollary, Inc
0014 PCIB [C-bus II to PCI bus host bridge chip]
1117 Intel 8-way XEON Profusion Chipset [Cache Coherency Filter]
118d BitFlow Inc
0001 Raptor-PCI framegrabber
0012 Model 12 Road Runner Frame Grabber
0014 Model 14 Road Runner Frame
Grabber
0024 Model 24 Road Runner Frame Grabber
0044 Model 44 Road Runner Frame Grabber
0112 Model 12 Road Runner Frame Grabber
0114 Model 14 Road Runner Frame Grabber
0124 Model 24 Road Runner Frame Grabber
0144 Model 44 Road Runner Frame Grabber
0212 Model 12 Road Runner Frame Grabber
0214 Model 14 Road Runner Frame Grabber
0224 Model 24 Road Runner Frame Grabber
0244 Model 44 Road Runner Frame Grabber
0312 Model 12 Road Runner Frame Grabber
0314 Model 14 Road Runner Frame Grabber
0324 Model 24 Road Runner Frame Grabber
0344 Model 44 Road Runner Frame Grabber

118e Hermstedt GmbH
118f Green Logic
1190 Tripace
c731 TP-910/920/940 PCI Ultra(Wide) SCSI Adapter
1191 Artop Electronic Corp
0003 SCSI Cache Host Adapter
0004 ATP8400
0005 ATP850UF
0006 ATP860 NO-BIOS
0007 ATP860
0008 ATP865 NO-ROM
0009 ATP865
000a ATP867-A
000b ATP867-B
000d ATP8620
000e ATP8620
8002 AEC6710 SCSI-2 Host Adapter
8010 AEC6712UW SCSI
8020 AEC6712U SCSI
8030
AEC6712S SCSI
8040 AEC6712D SCSI
8050 AEC6712SUW SCSI
8060 AEC6712 SCSI
8080 AEC67160 SCSI
8081 AEC67160S SCSI
808a AEC67162 2-ch. LVD SCSI
1192 Densan Company Ltd
1193 Zeitnet Inc.
0001 1221
0002 1225
1194 Toucan Technology
1195 Ratoc System Inc
1196 Hytec Electronics Ltd
1197 Gage Applied Sciences, Inc.
010c CompuScope 82G 8bit 2GS/s Analog Input Card
1198 Lambda Systems Inc
1199 Attachmate Corporation
0101 Advanced ISCA/PCI Adapter
119a Mind Share, Inc.
119b Omega Micro Inc.
1221 82C092G
119c Information Technology Inst.
119d Bug, Inc. Sapporo Japan
119e Fujitsu Microelectronics Ltd.
0001 FireStream 155
0003 FireStream 50
119f Bull HN Information Systems

1081 BXI Host Channel Adapter
BXI stands for Bull eXascale Interconnect
1101 BXI Host Channel Adapter v1.2
BXI stands for Bull eXascale Interconnect
1121 BXI Host Channel Adapter v1.3
11a0 Convex Computer Corporation
11a1 Hamamatsu Photonics K.K.
11a2 Sierra Research and Technology
11a3
Deuretzbacher GmbH & Co. Eng. KG
11a4 Barco Graphics NV
11a5 Microunity Systems Eng. Inc
11a6 Pure Data Ltd.
11a7 Power Computing Corp.
11a8 Systech Corp.
11a9 InnoSys Inc.
4240 AMCC S933Q Intelligent Serial Card
11aa Actel
Nee Galileo Technology, Inc.
11ab Marvell Technology Group Ltd.
0146 GT-64010/64010A System Controller
0f53 88E6318 Link Street network controller
11ab MV88SE614x SATA II PCI-E controller
138f W8300 802.11 Adapter (rev 07)
1fa6 Marvell W8300 802.11 Adapter
1186 3b08 AirPlus G DWL-G630 Wireless Cardbus Adapter (rev.A1)
1fa7 88W8310 and 88W8000G [Libertas] 802.11g client chipset
1faa 88w8335 [Libertas] 802.11b/g Wireless
1385 4e00 WG511v2 54 Mbps Wireless PC Card
1385 6b00 WG311v3 802.11g Wireless PCI Adapter
1737 0040 WPC54G v5 802.11g Wireless-G Notebook Adapter
2211 88SB2211 PCI Express to PCI Bridge
2a01 88W8335 [Libertas] 802.11b/g Wireless
2a02 88W8361 [TopDog] 802.11n Wireless
07d1 3b02 DIR-615 rev.
A1 Mini PCI Wireless Module
1385 7c00 WN511T RangeMax Next 300 Mbps Wireless PC Card
1385 7c01 WN511T RangeMax Next 300 Mbps Wireless Notebook Adapter
1385 7e00 WN311T RangeMax Next 300 Mbps Wireless PCI Adapter
1799 801b F5D8011 v2 802.11n N1 Wireless Notebook Card
2a08 88W8362e [TopDog] 802.11a/b/g/n Wireless
2a0a 88W8363 [TopDog] 802.11n Wireless
2a0c 88W8363 [TopDog] 802.11n Wireless
2a24 88W8363 [TopDog] 802.11n Wireless
2a2b 88W8687 [TopDog] 802.11b/g Wireless
2a30 88W8687 [TopDog] 802.11b/g Wireless
2a40 88W8366 [TopDog] 802.11n Wireless
2a41 88W8366 [TopDog] 802.11n Wireless

2a42 88W8366 [TopDog] 802.11n Wireless
2a43 88W8366 [TopDog] 802.11n Wireless
2a55 88W8864 [Avastar] 802.11ac Wireless
2b36 88W8764 [Avastar] 802.11n Wireless
2b38 88W8897 [AVASTAR] 802.11ac Wireless
2b40 88W8964 [Avastar] 802.11ac Wireless
4101 OLPC Cafe Controller Secure Digital Controller
4320 88E8001 Gigabit Ethernet Controller
 1019 0f38 Marvell 88E8001 Gigabit
Ethernet Controller (ECS)
 1019 8001 Marvell 88E8001 Gigabit Ethernet Controller (ECS)
 1043 173c Marvell 88E8001 Gigabit Ethernet Controller (Asus)
 1043 811a Marvell 88E8001 Gigabit Ethernet Controller (Asus)
 105b 0c19 Marvell 88E8001 Gigabit Ethernet Controller (Foxconn)
 10b8 b452 EZ Card 1000 (SMC9452TXV.2)
 11ab 0121 Marvell RDK-8001
 11ab 0321 Marvell RDK-8003
 11ab 1021 Marvell RDK-8010
 11ab 4320 Marvell Yukon Gigabit Ethernet 10/100/1000Baset-T Constroller (Asus)
 11ab 5021 Marvell Yukon Gigabit Ethernet 10/100/1000Base-T Controller (64 bit)
 11ab 9521 Marvell Yukon Gigabit Ethernet 10/100/1000Base-T Controller (32 bit)
 1458 e000 Marvell 88E8001 Gigabit Ethernet Controller (Gigabyte)
 147b 1406 Marvell 88E8001 Gigabit Ethernet Controller (Abit)
 15d4 0047 Marvell 88E8001 Gigabit Ethernet Controller (Iwill)
 1695 9025 Marvell 88E8001 Gigabit Ethernet Controller (Epox)
 17f2 1c03 Marvell 88E8001 Gigabit Ethernet Controller (Albatron)
 270f
2803 Marvell 88E8001 Gigabit Ethernet Controller (Chaintech)
4340 88E8021 PCI-X IPMI Gigabit Ethernet Controller
4341 88E8022 PCI-X IPMI Gigabit Ethernet Controller
4342 88E8061 PCI-E IPMI Gigabit Ethernet Controller
4343 88E8062 PCI-E IPMI Gigabit Ethernet Controller
4344 88E8021 PCI-X IPMI Gigabit Ethernet Controller
4345 88E8022 PCI-X IPMI Gigabit Ethernet Controller
4346 88E8061 PCI-E IPMI Gigabit Ethernet Controller
4347 88E8062 PCI-E IPMI Gigabit Ethernet Controller
 4c53 10d0 Telum ASLP10 PrAMC Gigabit Ethernet
4350 88E8035 PCI-E Fast Ethernet Controller
 1179 0001 Marvell 88E8035 Fast Ethernet Controller (Toshiba)
 11ab 3521 Marvell RDK-8035
 1854 000d Marvell 88E8035 Fast Ethernet Controller (LGE)
 1854 000e Marvell 88E8035 Fast Ethernet Controller (LGE)
 1854 000f Marvell 88E8035 Fast Ethernet Controller (LGE)
 1854 0011 Marvell 88E8035 Fast Ethernet Controller (LGE)
 1854 0012 Marvell 88E8035 Fast Ethernet Controller (LGE)
 1854 0016 Marvell
88E8035 Fast Ethernet Controller (LGE)
 1854 0017 Marvell 88E8035 Fast Ethernet Controller (LGE)

1854 0018 Marvell 88E8035 Fast Ethernet Controller (LGE)
1854 0019 Marvell 88E8035 Fast Ethernet Controller (LGE)
1854 001c Marvell 88E8035 Fast Ethernet Controller (LGE)
1854 001e Marvell 88E8035 Fast Ethernet Controller (LGE)
1854 0020 Marvell 88E8035 Fast Ethernet Controller (LGE)
4351 88E8036 PCI-E Fast Ethernet Controller
107b 4009 Marvell 88E8036 Fast Ethernet Controller (Wistron)
10f7 8338 Marvell 88E8036 Fast Ethernet Controller (Panasonic)
1179 0001 Marvell 88E8036 Fast Ethernet Controller (Toshiba)
1179 ff00 Marvell 88E8036 Fast Ethernet Controller (Compal)
1179 ff10 Marvell 88E8036 Fast Ethernet Controller (Inventec)
11ab 3621 Marvell RDK-8036
13d1 ac12 Abocom EFE3K - 10/100 Ethernet Expresscard
161f 203d Marvell 88E8036 Fast Ethernet Controller (Arima)
1854 000d Marvell 88E8036 Fast Ethernet Controller (LGE)
1854 000e Marvell
88E8036 Fast Ethernet Controller (LGE)
1854 000f Marvell 88E8036 Fast Ethernet Controller (LGE)
1854 0011 Marvell 88E8036 Fast Ethernet Controller (LGE)
1854 0012 Marvell 88E8036 Fast Ethernet Controller (LGE)
1854 0016 Marvell 88E8036 Fast Ethernet Controller (LGE)
1854 0017 Marvell 88E8036 Fast Ethernet Controller (LGE)
1854 0018 Marvell 88E8036 Fast Ethernet Controller (LGE)
1854 0019 Marvell 88E8036 Fast Ethernet Controller (LGE)
1854 001c Marvell 88E8036 Fast Ethernet Controller (LGE)
1854 001e Marvell 88E8036 Fast Ethernet Controller (LGE)
1854 0020 Marvell 88E8036 Fast Ethernet Controller (LGE)
4352 88E8038 PCI-E Fast Ethernet Controller
4353 88E8039 PCI-E Fast Ethernet Controller
104d 902d VAIO VGN-NR120E
4354 88E8040 PCI-E Fast Ethernet Controller
1028 022f Inspiron 1525
144d c06a R730 Laptop
144d c072 Notebook N150P
4355 88E8040T PCI-E Fast Ethernet Controller
1179 ff50 Satellite P305D-S8995E
4356 88EC033 PCI-E Fast Ethernet
Controller
4357 88E8042 PCI-E Fast Ethernet Controller
435a 88E8048 PCI-E Fast Ethernet Controller
4360 88E8052 PCI-E ASF Gigabit Ethernet Controller
1043 8134 Marvell 88E8052 Gigabit Ethernet Controller (Asus)
107b 4009 Marvell 88E8052 Gigabit Ethernet Controller (Wistron)
11ab 5221 Marvell RDK-8052
1458 e000 Marvell 88E8052 Gigabit Ethernet Controller (Gigabyte)
1462 052c Marvell 88E8052 Gigabit Ethernet Controller (MSI)
1849 8052 Marvell 88E8052 Gigabit Ethernet Controller (ASRock)
a0a0 0509 Marvell 88E8052 Gigabit Ethernet Controller (Aopen)

4361 88E8050 PCI-E ASF Gigabit Ethernet Controller
 107b 3015 Marvell 88E8050 Gigabit Ethernet Controller (Gateway)
 11ab 5021 Marvell 88E8050 Gigabit Ethernet Controller (Intel)
 8086 3063 D925XCVLK mainboard
 8086 3439 Marvell 88E8050 Gigabit Ethernet Controller (Intel)
4362 88E8053 PCI-E Gigabit Ethernet Controller
 103c 2a0d Marvell 88E8053 Gigabit Ethernet Controller (Asus)
 1043 8142 Marvell
88E8053 Gigabit Ethernet controller PCIe (Asus)
 109f 3197 Marvell 88E8053 Gigabit Ethernet Controller (Trigem)
 10f7 8338 Marvell 88E8053 Gigabit Ethernet Controller (Panasonic)
 10fd a430 Marvell 88E8053 Gigabit Ethernet Controller (SOYO)
 1179 0001 Marvell 88E8053 Gigabit Ethernet Controller (Toshiba)
 1179 ff00 Marvell 88E8053 Gigabit Ethernet Controller (Compal)
 1179 ff10 Marvell 88E8053 Gigabit Ethernet Controller (Inventec)
 11ab 5321 Marvell RDK-8053
 1297 c240 Marvell 88E8053 Gigabit Ethernet Controller (Shuttle)
 1297 c241 Marvell 88E8053 Gigabit Ethernet Controller (Shuttle)
 1297 c242 Marvell 88E8053 Gigabit Ethernet Controller (Shuttle)
 1297 c243 Marvell 88E8053 Gigabit Ethernet Controller (Shuttle)
 1297 c244 Marvell 88E8053 Gigabit Ethernet Controller (Shuttle)
 13d1 ac11 EGE5K - Giga Ethernet Expresscard
 1458 e000 Marvell 88E8053 Gigabit Ethernet Controller (Gigabyte)
 1462 058c Marvell 88E8053 Gigabit Ethernet Controller (MSI)
 14c0
0012 Marvell 88E8053 Gigabit Ethernet Controller (Compal)
 1558 04a0 Marvell 88E8053 Gigabit Ethernet Controller (Clevo)
 15bd 1003 Marvell 88E8053 Gigabit Ethernet Controller (DFI)
 161f 203c Marvell 88E8053 Gigabit Ethernet Controller (Arima)
 161f 203d Marvell 88E8053 Gigabit Ethernet Controller (Arima)
 1695 9029 Marvell 88E8053 Gigabit Ethernet Controller (Epox)
 17f2 2c08 Marvell 88E8053 Gigabit Ethernet Controller (Albatron)
 17ff 0585 Marvell 88E8053 Gigabit Ethernet Controller (Quanta)
 1849 8053 Marvell 88E8053 Gigabit Ethernet Controller (ASRock)
 1854 000b Marvell 88E8053 Gigabit Ethernet Controller (LGE)
 1854 000c Marvell 88E8053 Gigabit Ethernet Controller (LGE)
 1854 0010 Marvell 88E8053 Gigabit Ethernet Controller (LGE)
 1854 0013 Marvell 88E8053 Gigabit Ethernet Controller (LGE)
 1854 0014 Marvell 88E8053 Gigabit Ethernet Controller (LGE)
 1854 0015 Marvell 88E8053 Gigabit Ethernet Controller (LGE)
 1854 001a Marvell 88E8053 Gigabit Ethernet
Controller (LGE)
 1854 001b Marvell 88E8053 Gigabit Ethernet Controller (LGE)
 1854 001d Marvell 88E8053 Gigabit Ethernet Controller (LGE)
 1854 001f Marvell 88E8053 Gigabit Ethernet Controller (LGE)
 1854 0021 Marvell 88E8053 Gigabit Ethernet Controller (LGE)
 1854 0022 Marvell 88E8053 Gigabit Ethernet Controller (LGE)
 270f 2801 Marvell 88E8053 Gigabit Ethernet Controller (Chaintech)

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 a0a0 0506  Marvell 88E8053 Gigabit Ethernet Controller (Aopen)
4363  88E8055 PCI-E Gigabit Ethernet Controller
4364  88E8056 PCI-E Gigabit Ethernet Controller
 1043 81f8  Motherboard
 11ba 00ba  8056 Gigabit Ethernet Controller
4365  88E8070 based Ethernet Controller
4366  88EC036 PCI-E Gigabit Ethernet Controller
4367  88EC032 Ethernet Controller
4368  88EC034 Ethernet Controller
4369  88EC042 Ethernet Controller
436a  88E8058 PCI-E Gigabit Ethernet Controller
 11ab 00ba  Imac 8,1 Wired Ethernet Adapter
436b  88E8071 PCI-E Gigabit Ethernet Controller
436c  88E8072 PCI-E
Gigabit Ethernet Controller
436d  88E8055 PCI-E Gigabit Ethernet Controller
4370  88E8075 PCI-E Gigabit Ethernet Controller
4380  88E8057 PCI-E Gigabit Ethernet Controller
# AVB = "Audio Video Bridging"
4381  Yukon Optima 88E8059 [PCIe Gigabit Ethernet Controller with AVB]
 1259 2803  AT-2814FX
 1259 2804  AT-2874xx
4611  GT-64115 System Controller
4620  GT-64120/64120A/64121A System Controller
4801  GT-48001
5005  Belkin F5D5005 Gigabit Desktop Network PCI Card
5040  MV88SX5040 4-port SATA I PCI-X Controller
5041  MV88SX5041 4-port SATA I PCI-X Controller
5080  MV88SX5080 8-port SATA I PCI-X Controller
5081  MV88SX5081 8-port SATA I PCI-X Controller
5181  88f5181 [Orion-1] ARM SoC
5182  88f5182 [Orion-NAS] ARM SoC
5281  88f5281 [Orion-2] ARM SoC
6041  MV88SX6041 4-port SATA II PCI-X Controller
6042  88SX6042 PCI-X 4-Port SATA-II
6081  MV88SX6081 8-port SATA II PCI-X Controller
6101  88SE6101/6102 single-port PATA133 interface
 1043 82e0  P5K PRO Motherboard
6121
 88SE6111/6121 SATA II / PATA Controller
# 6111: 1 SATA port; 6121: 2 SATA ports
 11ab 6121  88SE6111/6121 1/2 port SATA II + 1 port PATA Controller
6141  88SE614x SATA II PCI-E controller
6145  88SE6145 SATA II PCI-E controller
6180  88F6180 [Kirkwood] ARM SoC
6192  88F6190/6192 [Kirkwood] ARM SoC
6281  88F6281 [Kirkwood] ARM SoC
# This device ID was used for earlier chips.
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6381 MV78xx0 [Discovery Innovation] ARM SoC
6440 88SE6440 SAS/SATA PCIe controller
6450 64560 System Controller
6460 MV64360/64361/64362 System Controller
6480 MV64460/64461/64462 System Controller
1775 c200 C2K CompactPCI single board computer
6485 MV64460/64461/64462 System Controller, Revision B
7042 88SX7042 PCI-e 4-port SATA-II
16b8 434b Tempo SATA E4P
7810 MV78100 [Discovery Innovation] ARM SoC
7820 MV78200 [Discovery Innovation] ARM SoC
7823 MV78230 [Armada XP] ARM SoC
7846 88F6820 [Armada 385] ARM SoC
d40f Bobcat3 Ethernet Switch
f003 GT-64010 Primary Image Piranha Image
Generator
11ac Canon Information Systems Research Aust.
11ad Lite-On Communications Inc
0002 LNE100TX
11ad 0002 LNE100TX
11ad 0003 LNE100TX
11ad f003 LNE100TX
11ad ffff LNE100TX
1385 f004 FA310TX
2646 f002 KNE110TX EtheRx Fast Ethernet
c115 LNE100TX [Linksys EtherFast 10/100]
11ad c001 LNE100TX [ver 2.0]
2646 000b KNE111TX
11ae Aztech System Ltd
11af Avid Technology Inc.
0001 Cinema
ee40 Digidesign Audiomedia III
11b0 V3 Semiconductor Inc.
0002 V300PSC
0292 V292PBC [Am29030/40 Bridge]
0960 V96xPBC
880a Deltacast Delta-HD-22
c960 V96DPC
11b1 Apricot Computers
11b2 Eastman Kodak
11b3 Barr Systems Inc.
11b4 Leitch Technology International
11b5 Radstone Technology Plc
11b6 United Video Corp
11b7 Motorola
11b8 XPoint Technologies, Inc
0001 Quad PeerMaster
11b9 Pathlight Technology Inc.

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c0ed  SSA Controller
11ba  Videotron Corp
11bb  Pyramid Technology
11bc  Network Peripherals Inc
0001  NP-PCI
11bd  Pinnacle Systems Inc.
002e
PCTV 40i
0040  Royal TS Function 1
 11bd 0044  PCTV 2000i Dual DVB-T Pro PCI Tuner 1
 11bd 0045  PCTV Dual Sat Pro PCI 4000i Tuner 1
0041  RoyalTS Function 2
 11bd 0044  PCTV 2000i Dual DVB-T Pro PCI Tuner 2
 11bd 0045  PCTV Dual Sat Pro PCI 4000i Tuner 2
0042  Royal TS Function 3
 11bd 0044  PCTV 2000i Dual DVB-T Pro PCI Common
 11bd 0045  PCTV Dual Sat Pro PCI 4000i Common
0051  PCTV HD 800i
bede  AV/DV Studio Capture Card
11be  International Microcircuits Inc
11bf  Astrodesign, Inc.
11c0  Hewlett Packard
# nee Agere Systems nee Lucent Microelectronics
11c1  LSI Corporation
0440  56k WinModem
 1033 8015  LT WinModem 56k Data+Fax+Voice+Dsvd
 1033 8047  LT WinModem 56k Data+Fax+Voice+Dsvd
 1033 804f  LT WinModem 56k Data+Fax+Voice+Dsvd
 10cf 102c  LB LT Modem V.90 56k
 10cf 104a  BIBLO LT Modem 56k
 10cf 105f  LB2 LT Modem V.90 56k
 1179 0001  Internal V.90 Modem
 11c1 0440  LT WinModem 56k Data+Fax+Voice+Dsvd
 122d 4101  MDP7800-U Modem
 122d 4102  MDP7800SP-U Modem
 13e0
0040  LT WinModem 56k Data+Fax+Voice+Dsvd
 13e0 0440  LT WinModem 56k Data+Fax+Voice+Dsvd
 13e0 0441  LT WinModem 56k Data+Fax+Voice+Dsvd
 13e0 0450  LT WinModem 56k Data+Fax+Voice+Dsvd
 13e0 f100  LT WinModem 56k Data+Fax+Voice+Dsvd
 13e0 f101  LT WinModem 56k Data+Fax+Voice+Dsvd
 144d 2101  LT56PV Modem
 149f 0440  LT WinModem 56k Data+Fax+Voice+Dsvd
0441  56k WinModem
 1033 804d  LT WinModem 56k Data+Fax
 1033 8065  LT WinModem 56k Data+Fax
 1092 0440  Supra 56i
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 1179 0001  Internal V.90 Modem
 11c1 0440  LT WinModem 56k Data+Fax
 11c1 0441  LT WinModem 56k Data+Fax
 122d 4100  MDP7800-U Modem
 13e0 0040  LT WinModem 56k Data+Fax
 13e0 0100  LT WinModem 56k Data+Fax
 13e0 0410  LT WinModem 56k Data+Fax
 13e0 0420  TelePath Internet 56k WinModem
 13e0 0440  LT WinModem 56k Data+Fax
 13e0 0443  LT WinModem 56k Data+Fax
 13e0 f102  LT WinModem 56k Data+Fax
 1416 9804  CommWave 56k Modem
 141d 0440  LT WinModem 56k Data+Fax
 144f 0441  Lucent 56k V.90
DF Modem
 144f 0449  Lucent 56k V.90 DF Modem
 144f 110d  Lucent Win Modem
 1468 0441  Presario 56k V.90 DF Modem
 1668 0440  Lucent Win Modem
0442  56k WinModem
 11c1 0440  LT WinModem 56k Data+Fax+Voice+VoiceView+Dsvd
 11c1 0442  LT WinModem 56k Data+Fax+Voice+VoiceView+Dsvd
 13e0 0412  LT WinModem 56k Data+Fax+Voice+VoiceView+Dsvd
 13e0 0442  LT WinModem 56k Data+Fax+Voice+VoiceView+Dsvd
 13fc 2471  LT WinModem 56k Data+Fax+Voice+VoiceView+Dsvd
 144d 2104  LT56PT Modem
 144f 1104  LT WinModem 56k Data+Fax+Voice+VoiceView+Dsvd
 149f 0440  LT WinModem 56k Data+Fax+Voice+VoiceView+Dsvd
 1668 0440  LT WinModem 56k Data+Fax+Voice+VoiceView+Dsvd
0443  LT WinModem
0444  LT WinModem
0445  LT WinModem
 8086 2203  PRO/100+ MiniPCI (probably an Ambit U98.003.C.00 combo card)
 8086 2204  PRO/100+ MiniPCI on Armada E500
0446  LT WinModem
0447  LT WinModem
0448  WinModem 56k
 1014 0131  Lucent Win Modem
 1033 8066  LT WinModem 56k Data+Fax+Voice+Dsvd
 13e0 0030  56k Voice
Modem
 13e0 0040  LT WinModem 56k Data+Fax+Voice+Dsvd
# Actiontech eth+modem card as used by Dell &c.
 1668 2400  LT WinModem 56k (MiniPCI Ethernet+Modem)
0449  L56xM+S [Mars-2] WinModem 56k
 0e11 b14d  56k V.90 Modem
 1014 018c  ThinkPad 600X
 13e0 0020  LT WinModem 56k Data+Fax
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13e0 0041 TelePath Internet 56k WinModem
1436 0440 Lucent Win Modem
144f 0449 Lucent 56k V.90 DFi Modem
1468 0410 IBM ThinkPad T23
1468 0440 Lucent Win Modem
1468 0449 Presario 56k V.90 DFi Modem
044a F-1156IV WinModem (V90, 56KFlex)
10cf 1072 LB Global LT Modem
13e0 0012 LT WinModem 56k Data+Fax+Voice+VoiceView+Dsvd
13e0 0042 LT WinModem 56k Data+Fax+Voice+VoiceView+Dsvd
144f 1005 LT WinModem 56k Data+Fax+Voice+VoiceView+Dsvd
044b LT WinModem
044c LT WinModem
044d LT WinModem
044e LT WinModem
044f V90 WildWire Modem
0450 LT WinModem
1033 80a8 Versa Note Vxi
144f 4005 Magnia SG20
1468 0450 Evo N600c
0451 LT WinModem
0452 LT WinModem
0453 LT WinModem
0454
LT WinModem
0455 LT WinModem
0456 LT WinModem
0457 LT WinModem
0458 LT WinModem
0459 LT WinModem
045a LT WinModem
045c LT WinModem
0461 V90 WildWire Modem
0462 V90 WildWire Modem
0480 Venus Modem (V90, 56KFlex)
048c V.92 56K WinModem
InPorte Home Internal 56k Modem/fax/answering machine/SMS Features
048f V.92 56k WinModem
0620 Lucent V.92 Data/Fax Modem
2600 StarPro26XX family (SP2601, SP2603, SP2612) DSP
5400 OR3TP12 FPSC
5656 Venus Modem
5801 USB
5802 USS-312 USB Controller
5803 USS-344S USB Controller
5811 FW322/323 [TrueFire] 1394a Controller
103c 2a34 Pavilion a1677c
103c 2a6f Asus IPIBL-LB Motherboard

103c 2a9e Pavilion p6310f
1043 8294 LSI FW322/323 IEEE 1394a FireWire Controller
11bd 000e LSI FW323
8086 524c D865PERL mainboard
9005 0033 Adaptec AFW-2100 (HP) 2102900-R
dead 0800 FireWire Host Bus Adapter
5901 FW643 [TrueFire] PCIe 1394b Controller
11c1 5900 FW643 [TrueFire] PCIe 1394b Controller
1443
0643 FireBoard800-e V.2
1546 0643 FWB-PCIE1X2x
5903 FW533 [TrueFire] PCIe 1394a Controller
8110 T8110 H.100/H.110 TDM switch
12d9 000c E1/T1 PMXc cPCI carrier card
ab10 WL60010 Wireless LAN MAC
ab11 WL60040 Multimode Wireles LAN MAC
11c1 ab12 WaveLAN 11abg Cardbus card (Model 1102)
11c1 ab13 WaveLAN 11abg MiniPCI card (Model 0512)
11c1 ab15 WaveLAN 11abg Cardbus card (Model 1106)
11c1 ab16 WaveLAN 11abg MiniPCI card (Model 0516)
ab20 ORiNOCO PCI Adapter
ab21 Agere Wireless PCI Adapter
ab30 Hermes2 Mini-PCI WaveLAN a/b/g
14cd 2012 Hermes2 Mini-PCI WaveLAN a/b/g
ed00 ET-131x PCI-E Ethernet Controller
ed01 ET-131x PCI-E Ethernet Controller
11c2 Sand Microelectronics
11c3 NEC Corporation
11c4 Document Technologies, Inc
11c5 Shiva Corporation
11c6 Dainippon Screen Mfg. Co. Ltd
11c7 D.C.M. Data Systems
11c8 Dolphin Interconnect Solutions AS
0658 PSB32 SCI-Adapter D31x
d665 PSB64 SCI-Adapter D32x
d667 PSB66 SCI-Adapter D33x
11c9 Magma
0010
16-line serial port w/- DMA
0011 4-line serial port w/- DMA
11ca LSI Systems, Inc
11cb Specialix Research Ltd.
2000 PCI_9050
11cb 0200 SX
11cb b008 I/O8+
4000 SUPI_1
8000 T225
11cc Michels & Kleberhoff Computer GmbH

11cd HAL Computer Systems, Inc.
11ce Netaccess
11cf Pioneer Electronic Corporation
11d0 Lockheed Martin Federal Systems-Manassas
11d1 Auravision
01f7 VxP524
01f9 VxP951
11d2 Intercom Inc.
11d3 Trancell Systems Inc
11d4 Analog Devices
1535 Blackfin BF535 processor
1805 SM56 PCI modem
11d5 Ikon Corporation
0115 10115
0117 10117
11d6 Tekelec Telecom
11d7 Trenton Technology, Inc.
11d8 Image Technologies Development
11d9 TEC Corporation
11da Novell
11db Sega Enterprises Ltd
11dc Questra Corporation
11dd Crosfield Electronics Limited
11de Zoran Corporation
6017 miroVIDEO DC30
6057 ZR36057PQC Video cutting chipset
1031 7efe DC10 Plus
1031 fc00 MiroVIDEO DC50, Motion JPEG Capture/CODEC Board
12f8 8a02 Tekram Video
Kit
13ca 4231 JPEG/TV Card
6120 ZR36120
1328 f001 Cinemaster C DVD Decoder
13c2 0000 MediaFocus Satellite TV Card
1de1 9fff Video Kit C210
11df New Wave PDG
11e0 Cray Communications A/S
11e1 GEC Plessey Semi Inc.
11e2 Samsung Information Systems America
11e3 Quicklogic Corporation
0001 COM-ON-AIR Dosch&Amand DECT
0560 QL5064 Companion Design Demo Board
5030 PC Watchdog
8417 QL5064 [QuickPCI] PCI v2.2 bridge for SMT417 Dual TMS320C6416T PMC Module
11e4 Second Wave Inc
11e5 IIX Consulting
11e6 Mitsui-Zosen System Research
11e7 Toshiba America, Elec. Company

11e8 Digital Processing Systems Inc.
11e9 Highwater Designs Ltd.
11ea Elsag Bailey
11eb Formation Inc.
11ec Coreco Inc
000d Oculus-F/64P
1800 Cobra/C6
11ed Mediamatics
11ee Dome Imaging Systems Inc
11ef Nicolet Technologies B.V.
11f0 Compu-Shack
4231 FDDI
4232 FASTline UTP Quattro
4233 FASTline FO
4234 FASTline UTP
4235 FASTline-II UTP
4236 FASTline-II FO
4731 GIGAline
11f1
Symbios Logic Inc
11f2 Picture Tel Japan K.K.
11f3 Keithley Metrabyte
0011 KPCI-PIO24
11f4 Kinetic Systems Corporation
2915 CAMAC controller
11f5 Computing Devices International
11f6 Compex
0112 ENet100VG4
0113 FreedomLine 100
1401 ReadyLink 2000
2011 RL100-ATX 10/100
11f6 2011 RL100-ATX
2201 ReadyLink 100TX (Winbond W89C840)
11f6 2011 ReadyLink 100TX
9881 RL100TX Fast Ethernet
11f7 Scientific Atlanta
11f8 PMC-Sierra Inc.
5220 BR522x [PMC-Sierra maxRAID SAS Controller]
7364 PM7364 [FREEDM - 32 Frame Engine & Datalink Mgr]
7375 PM7375 [LASAR-155 ATM SAR]
7384 PM7384 [FREEDM - 84P672 Frm Engine & Datalink Mgr]
8000 PM8000 [SPC - SAS Protocol Controller]
8009 PM8009 SPCve 8x6G
8018 PM8018 Adaptec SAS Adaptor ASA-70165H PCIe Gen3 x8 6 Gbps 16-lane 4x SFF-8644
8032 PM8032 Tachyon QE8
117c 003a Celerity FC-81EN Fibre Channel Adapter
117c 003b Celerity FC-82EN Fibre Channel Adapter
117c 003c Celerity FC-84EN Fibre Channel Adapter

117c 403b
ThunderLink FC 1082 Fibre Channel Adapter
8053 PM8053 SXP 12G 24-port SAS/SATA expander
8054 PM8054 SXP 12G 36-port SAS/SATA expander
8055 PM8055 SXP 12G 48-port SAS/SATA expander
8056 PM8056 SXP 12G 68-port SAS/SATA expander
8060 PM8060 SRCv 12G eight-port SAS/SATA RoC
8063 PM8063 SRCv 12G 16-port SAS/SATA RoC
8070 PM8070 Tachyon SPCv 12G eight-port SAS/SATA controller
8071 PM8071 Tachyon SPCve 12G eight-port SAS/SATA controller
8072 PM8072 Tachyon SPCv 12G 16-port SAS/SATA controller
8073 PM8073 Tachyon SPCve 12G 16-port SAS/SATA controller
8531 PM8531 PFX 24xG3 Fanout PCIe Switches
8546 PM8546 B-FEIP PSX 96xG3 PCIe Storage Switch
11f9 I-Cube Inc
11fa Kasan Electronics Company, Ltd.
11fb Datel Inc
11fc Silicon Magic
11fd High Street Consultants
11fe Pepperl+Fuchs Comtrol, Inc.
0001 RocketPort PCI 32-port w/external I/F
0002 RocketPort PCI 8-port w/external I/F
0003 RocketPort PCI 16-port w/external I/F
0004 RocketPort PCI 4-port w/Quad Cable
0005
RocketPort PCI 8-port w/Octa Cable
0006 RocketPort PCI 8-port w/RJ11 connectors
0007 RocketPort PCI 4-port w/RJ45 connectors
0008 RocketPort PCI 8-port w/DB78 SNI connector (Siemens)
0009 RocketPort PCI 16-port w/DB78 SNI connector (Siemens)
000a RocketPort PCI Plus 4-port w/Quad Cable
000b RocketPort PCI Plus 8-port w/Octa Cable
000c RocketModem II 6-port
000d RocketModem 4-port
000e RocketPort PCI Plus 2-port RS-232 w/DB9 connectors
000f RocketPort PCI Plus 2-port SMPTE w/DB9 connectors
0040 RocketPort INFINITY 8-port w/Octa Cable RJ45
0041 RocketPort INFINITY 32-port w/external I/F
0042 RocketPort INFINITY 8-port w/external I/F
0043 RocketPort INFINITY 16-port w/external I/F
0044 RocketPort INFINITY 4-port w/Quad Cable DB
0045 RocketPort INFINITY 8-port w/Octa Cable DB
0046 RocketPort INFINITY 4-port w/external I/F
0047 RocketPort INFINITY 4J (4-port) w/RJ45 connectors
0048 RocketPort INFINITY 4J (4-port) w/RJ45 connectors
004a RocketPort
INFINITY Plus 4-port
004b RocketPort INFINITY Plus 8-port

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 004c  RocketModem INFINITY III 8-port
 004d  RocketModem INFINITY III 4-port
 004e  RocketPort INFINITY Plus 2-port
 004f  RocketPort INFINITY 2-port SMPTE w/DB9 connectors
 0050  RocketPort INFINITY Plus 4-port RJ45
 0051  RocketPort INFINITY Plus 8-port RJ11
 0052  RocketPort INFINITY 8-port SMPTE w/DB9 Connectors
 0060  RocketPort EXPRESS 8-port w/Octa Cable
 0061  RocketPort EXPRESS 32-port w/external I/F
 0062  RocketPort EXPRESS 8-Port w/external I/F
 0063  RocketPort EXPRESS 16-port w/external I/F
 0064  RocketPort EXPRESS 4-port w/Quad Cable
 0065  RocketPort EXPRESS 8-port w/Octa Cable
 0066  RocketPort EXPRESS 4-port w/external I/F
 0067  RocketPort EXPRESS 4J (4-port) w/RJ45 connectors
 0068  RocketPort EXPRESS 8J (8-port) w/RJ11 connectors
 006f  RocketPort EXPRESS SMPTE 2-port
 0072  RocketPort EXPRESS SMPTE 8-port w/external I/F
 0801  RocketPort uPCI 32-port w/external I/F
 0802  RocketPort uPCI 8-port w/external
 I/F
 0803  RocketPort uPCI 16-port w/external I/F
 0805  RocketPort uPCI 8-port w/Octa Cable
 080b  RocketPort Plus uPCI 8-port w/Octa Cable
 080c  RocketModem III 8-port
 080d  RocketModem III 4-port
 080e  RocketPort uPCI 2-port RS232 w/DB9 connectors
 080f  RocketPort uPCI SMPTE 2-port
 0810  RocketPort Plus uPCI 4J (4-port) w/RJ45 connectors
 0811  RocketPort Plus uPCI 8J (8-port) w/RJ11 connectors
 0812  RocketPort Plus uPCI 422 8-port
 0813  RocketModem IV uPCI 8-port
 0814  RocketModem IV uPCI 4-port
 0903  RocketPort Compact PCI 16 port w/external I/F
# 16954 UART
 8015  RocketPort 550 4-port
 8805  RocketPort uPCI 4-port w/Quad Cable
 880b  RocketPort Plus uPCI 4-port w/Quad Cable
 8812  RocketPort Plus uPCI 4-port RS422 w/Quad Cable
11ff  Scion Corporation
 0003  AG-5
1200  CSS Corporation
1201  Vista Controls Corp
1202  Network General Corp.
 4300  Gigabit Ethernet Adapter
  1202 9841  SK-9841 LX
  1202 9842  SK-9841 LX dual link
  1202 9843  SK-9843 SX
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1202 9844 SK-9843
SX dual link
1203 Bayer Corporation, Agfa Division
1204 Lattice Semiconductor Corporation
1965 SB6501 802.11ad Wireless Network Adapter
1205 Array Corporation
1206 Amdahl Corporation
1208 Parsytec GmbH
4853 HS-Link Device
1209 SCI Systems Inc
120a Synaptel
120b Adaptive Solutions
120c Technical Corp.
120d Compression Labs, Inc.
120e Cyclades Corporation
0100 Cyclom-Y below first megabyte
0101 Cyclom-Y above first megabyte
0102 Cyclom-4Y below first megabyte
0103 Cyclom-4Y above first megabyte
0104 Cyclom-8Y below first megabyte
0105 Cyclom-8Y above first megabyte
0200 Cyclades-Z below first megabyte
0201 Cyclades-Z above first megabyte
0300 PC300/RSV or /X21 (2 ports)
0301 PC300/RSV or /X21 (1 port)
0310 PC300/TE (2 ports)
0311 PC300/TE (1 port)
0320 PC300/TE-M (2 ports)
0321 PC300/TE-M (1 port)
0400 PC400
120f Essential Communications
0001 Roadrunner serial HIPPI
1210 Hyperparallel Technologies
1211 Braintech Inc
1213 Applied Intelligent
Systems, Inc.
1214 Performance Technologies, Inc.
1215 Interware Co., Ltd
1216 Purup Prepress A/S
1217 O2 Micro, Inc.
00f7 Firewire (IEEE 1394)
1071 8209 Medion MIM 2240 Notebook PC [MD98100]
1179 ff50 Satellite P305D-S8995E
10f7 1394 OHCI Compliant Host Controller
11f7 OZ600 1394a-2000 Controller
1028 04a3 Precision M4600
13f7 1394 OHCI Compliant Host Controller
6729 OZ6729

673a OZ6730
6832 OZ6832/6833 CardBus Controller
6836 OZ6836/6860 CardBus Controller
6872 OZ6812 CardBus Controller
6925 OZ6922 CardBus Controller
6933 OZ6933/711E1 CardBus/SmartCardBus Controller
 1025 1016 Travelmate 612 TX
6972 OZ601/6912/711E0 CardBus/SmartCardBus Controller
 1014 020c ThinkPad R30
 1028 0152 Latitude D500
 1179 0001 Magnia Z310
7110 OZ711Mx 4-in-1 MemoryCardBus Accelerator
 103c 088c NC8000 laptop
 103c 0890 NC6000 laptop
 1734 106c Amilo A1645
7112 OZ711EC1/M1 SmartCardBus/MemoryCardBus Controller
7113 OZ711EC1 SmartCardBus Controller
 1025
0035 TravelMate 660
7114 OZ711M1/MC1 4-in-1 MemoryCardBus Controller
7120 Integrated MMC/SD Controller
 1071 8209 Medion MIM 2240 Notebook PC [MD98100]
 1179 ff50 Satellite P305D-S8995E
7130 Integrated MS/xD Controller
 1071 8209 Medion MIM 2240 Notebook PC [MD98100]
 1179 ff50 Satellite P305D-S8995E
7134 OZ711MP1/MS1 MemoryCardBus Controller
7135 Cardbus bridge
7136 OZ711SP1 Memory CardBus Controller
71e2 OZ711E2 SmartCardBus Controller
7212 OZ711M2 4-in-1 MemoryCardBus Controller
7213 OZ6933E CardBus Controller
7223 OZ711M3/MC3 4-in-1 MemoryCardBus Controller
 103c 088c NC8000 laptop
 103c 0890 NC6000 laptop
 10cf 11c4 Lifebook P5020D Laptop
7233 OZ711MP3/MS3 4-in-1 MemoryCardBus Controller
8120 Integrated MMC/SD Controller
8130 Integrated MS/MSPRO/xD Controller
8220 OZ600FJ1/OZ900FJ1 SD/MMC Card Reader Controller
8221 OZ600FJ0/OZ900FJ0/OZ600FJS SD/MMC Card Reader Controller
8320 OZ600RJ1/OZ900RJ1 SD/MMC Card Reader Controller
 1028
04a3 Precision M4600
8321 OZ600RJ0/OZ900RJ0/OZ600RJS SD/MMC Card Reader Controller
8330 OZ600 MS/xD Controller
 1028 04a3 Precision M4600
8331 O2 Flash Memory Card

8520 SD/MMC Card Reader Controller
8621 SD/MMC Card Reader Controller
1218 Hybricon Corp.
1219 First Virtual Corporation
121a 3Dfx Interactive, Inc.
0001 Voodoo
0002 Voodoo 2
0003 Voodoo Banshee
1092 0003 Monster Fusion
1092 4000 Monster Fusion
1092 4002 Monster Fusion
1092 4801 Monster Fusion AGP
1092 4803 Monster Fusion AGP
1092 8030 Monster Fusion
1092 8035 Monster Fusion AGP
10b0 0001 Dragon 4000
1102 1017 3D Blaster Banshee PCI (CT6760)
1102 1018 3D Blaster Banshee VE
121a 0001 Voodoo Banshee AGP
121a 0003 Voodoo Banshee AGP SGRAM
121a 0004 Voodoo Banshee
139c 0016 Raven
139c 0017 Raven
14af 0002 Maxi Gamer Phoenix
0004 Voodoo Banshee [Velocity 100]
0005 Voodoo 3
121a 0004 Voodoo3 AGP
121a 0030 Voodoo3 AGP
121a 0031 Voodoo3 AGP
121a
0034 Voodoo3 AGP
121a 0036 Voodoo3 2000 PCI
121a 0037 Voodoo3 AGP
121a 0038 Voodoo3 AGP
121a 003a Voodoo3 AGP
121a 0044 Voodoo3
121a 004b Velocity 100
121a 004c Velocity 200
121a 004d Voodoo3 AGP
121a 004e Voodoo3 AGP
121a 0051 Voodoo3 AGP
121a 0052 Voodoo3 AGP
121a 0057 Voodoo3 3000 PCI
121a 0060 Voodoo3 3500 TV (NTSC)
121a 0061 Voodoo3 3500 TV (PAL)
121a 0062 Voodoo3 3500 TV (SECAM)
0009 Voodoo 4 / Voodoo 5
121a 0003 Voodoo5 PCI 5500

121a 0009 Voodoo5 AGP 5500/6000
0057 Voodoo 3/3000 [Avenger]
121b Advanced Telecommunications Modules
121c Nippon Texaco., Ltd
121d LiPPERT ADLINK Technology GmbH
121e CSPI
0201 Myrinet 2000 Scalable Cluster Interconnect
121f Arcus Technology, Inc.
1220 Ariel Corporation
1220 AMCC 5933 TMS320C80 DSP/Imaging board
1221 Contec Co., Ltd
9172 PO-64L(PCI)H [Isolated Digital Output Board for PCI]
91a2 PO-32L(PCI)H [Isolated Digital Output Board for PCI]
91c3 DA16-16(LPCI)L [Un-insulated
highly precise analog output board for Low Profile PCI]
b152 DIO-96D2-LPCI
c103 ADA16-32/2(PCI)F [High-Speed Analog I/O Board for PCI]
1222 Ancor Communications, Inc.
1223 Artesyn Communication Products
0003 PM/Link
0004 PM/T1
0005 PM/E1
0008 PM/SLS
0009 BajaSpan Resource Target
000a BajaSpan Section 0
000b BajaSpan Section 1
000c BajaSpan Section 2
000d BajaSpan Section 3
000e PM/PPC
1224 Interactive Images
1225 Power I/O, Inc.
1227 EIZO Rugged Solutions
0006 Raptor GFX 8P
0023 Raptor GFX [1100T]
0045 Raptor 4000-L [Linux version]
004a Raptor 4000-LR-L [Linux version]
1228 Norsk Elektro Optikk A/S
1229 Data Kinesis Inc.
122a Integrated Telecom
122b LG Industrial Systems Co., Ltd
122c Sican GmbH
122d Aztech System Ltd
1206 368DSP
1400 Trident PCI288-Q3DII (NX)
50dc 3328 Audio
122d 0001 3328 Audio
80da 3328 Audio
122d 0001 3328 Audio

122e Xyratex
 7722 Napatech XL1
 7724 Napatech XL2/XA
 7729 Napatech XD
122f Andrew
 Corporation
1230 Fishcamp Engineering
1231 Woodward McCoach, Inc.
 04e1 Desktop PCI Telephony 4
 05e1 Desktop PCI Telephony 5/6
 0d00 LightParser
 0d02 LightParser 2
 0d13 Desktop PCI L1/L3 Telephony
1232 GPT Limited
1233 Bus-Tech, Inc.
nee Risq Modular Systems, Inc.
1235 SMART Modular Technologies
1236 Sigma Designs Corporation
 0000 RealMagic64/GX
 6401 REALmagic 64/GX (SD 6425)
1237 Alta Technology Corporation
1238 Adtran
1239 3DO Company
123a Visicom Laboratories, Inc.
123b Seeq Technology, Inc.
123c Century Systems, Inc.
123d Engineering Design Team, Inc.
 0000 EasyConnect 8/32
 0002 EasyConnect 8/64
 0003 EasyIO
123e Simutech, Inc.
nee C-Cube Microsystems / acquired by Magnum Semiconductor
123f LSI Logic
 00e4 MPEG
 8120 DVxplore Codec
  10de 01e1 NVTV PAL
  10de 01e2 NVTV NTSC
  10de 01e3 NVTV PAL
  10de 0248 NVTV NTSC
  10de 0249 NVTV PAL
  11bd 0006 DV500 E4
  11bd 000a DV500 E4
  11bd 000f DV500 E4
  1809 0016 Emuzed MAUI-III PCI PVR FM
 TV
 8888 Cinemaster C 3.0 DVD Decoder
  1002 0001 Cinemaster C 3.0 DVD Decoder
  1002 0002 Cinemaster C 3.0 DVD Decoder

1328 0001 Cinemaster C 3.0 DVD Decoder
1240 Marathon Technologies Corp.
1241 DSC Communications
Formerly Jaycor Networks, Inc.
1242 JNI Corporation
1560 JNIC-1560 PCI-X Fibre Channel Controller
1242 6562 FCX2-6562 Dual Channel PCI-X Fibre Channel Adapter
1242 656a FCX-6562 PCI-X Fibre Channel Adapter
4643 FCI-1063 Fibre Channel Adapter
6562 FCX2-6562 Dual Channel PCI-X Fibre Channel Adapter
656a FCX-6562 PCI-X Fibre Channel Adapter
1243 Delphax
Audio-Visuelles Marketing und Computersysteme
1244 AVM GmbH
0700 B1 ISDN
0800 C4 ISDN
0a00 A1 ISDN [Fritz]
1244 0a00 FRITZ!Card ISDN Controller
0e00 Fritz!Card PCI v2.0 ISDN
0e80 Fritz!Card PCI v2.1 ISDN
1244 0e00 PSB 3100F (AVM KAFKA) [Fritz!Card PCI v2.1]
1100 C2 ISDN
1200 T1 ISDN
2700 Fritz!Card DSL SL
2900 Fritz!Card DSL v2.0
1245 A.P.D., S.A.
1246 Dipix Technologies,
Inc.
1247 Xylon Research, Inc.
1248 Central Data Corporation
1249 Samsung Electronics Co., Ltd.
124a AEG Electrocom GmbH
124b SBS/Greenspring Modular I/O
0040 PCI-40A or cPCI-200 Quad IndustryPack carrier
124b 9080 PCI9080 Bridge
124c Solitron Technologies, Inc.
124d Stallion Technologies, Inc.
0000 EasyConnection 8/32
0002 EasyConnection 8/64
0003 EasyIO
0004 EasyConnection/RA
124e Cylink
124f Infortrend Technology, Inc.
0041 IFT-2000 Series RAID Controller
1250 Hitachi Microcomputer System Ltd
1251 VLSI Solutions Oy
1253 Guzik Technical Enterprises
1254 Linear Systems Ltd.

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 0065  DVB Master FD
 007c  DVB Master Quad/o
1255  Optibase Ltd
 1110  MPEG Forge
 1210  MPEG Fusion
 2110  VideoPlex
 2120  VideoPlex CC
 2130  VideoQuest
1256  Perceptive Solutions, Inc.
 4201  PCI-2220I
 4401  PCI-2240I
 5201  PCI-2000
1257  Vertex Networks, Inc.
1258  Gilbarco, Inc.
# nee Allied Telesyn International
1259  Allied Telesis
 2560  AT-2560 Fast Ethernet Adapter (i82557B)
 2801
  AT-2801FX (RTL-8139)
 a117  RTL81xx Fast Ethernet
 a11e  RTL81xx Fast Ethernet
 a120  21x4x DEC-Tulip compatible 10/100 Ethernet
125a  ABB Power Systems
125b  Asix Electronics Corporation
 1400  AX88141 Fast Ethernet Controller
  1186 1100  AX8814X Based PCI Fast Ethernet Adapter
125c  Aurora Technologies, Inc.
 0101  Saturn 4520P
 0640  Aries 16000P
125d  ESS Technology
 0000  ES336H Fax Modem (Early Model)
 1948  ES1948 Maestro-1
 1968  ES1968 Maestro 2
  1028 0085  ES1968 Maestro-2 PCI
  1033 8051  ES1968 Maestro-2 Audiodrive
 1969  ES1938/ES1946/ES1969 Solo-1 Audiodrive
  1014 0166  ES1969 SOLO-1 AudioDrive on IBM Aptiva Mainboard
  125d 8888  Solo-1 Audio Adapter
  125d 8898  ES1938S TTSOLO1-SL [TerraTec 128i PCI]
  153b 111b  Terratec 128i PCI
 1978  ES1978 Maestro 2E
  0e11 b112  Armada M700/E500
  1033 803c  ES1978 Maestro-2E Audiodrive
  1033 8058  ES1978 Maestro-2E Audiodrive
  1092 4000  Monster Sound MX400
  1179 0001  ES1978 Maestro-2E Audiodrive
 1988  ES1988 Allegro-1
  0e11
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0098  Evo N600c
 1092 4100  Sonic Impact S100
 125d 0431  Allegro AudioDrive
 125d 1988  ESS Allegro-1 Audiodrive
 125d 1998  Allegro AudioDrive
 125d 1999  Allegro-1 AudioDrive
1989  ESS Modem
 125d 1989  ESS Modem
1998  ES1983S Maestro-3i PCI Audio Accelerator
 1028 00b1  Latitude C600
 1028 00e5  Latitude C810
 1028 00e6  ES1983S Maestro-3i (Dell Inspiron 8100)
1999  ES1983S Maestro-3i PCI Modem Accelerator
199a  ES1983S Maestro-3i PCI Audio Accelerator
199b  ES1983S Maestro-3i PCI Modem Accelerator
2808  ES336H Fax Modem (Later Model)
2838  ES2838/2839 SuperLink Modem
2898  ES2898 Modem
 125d 0424  ES56-PI Data Fax Modem
 125d 0425  ES56T-PI Data Fax Modem
 125d 0426  ES56V-PI Data Fax Modem
 125d 0427  VW-PI Data Fax Modem
 125d 0428  ES56ST-PI Data Fax Modem
 125d 0429  ES56SV-PI Data Fax Modem
 147a c001  ES56-PI Data Fax Modem
 148d 1030  HCF WV-PI56 [ESS ES56-PI Data Fax Modem]
 14fe 0428  ES56-PI Data Fax Modem
 14fe 0429  ES56-PI Data
 Fax Modem
125e  Specialvideo Engineering SRL
125f  Concurrent Technologies, Inc.
# 4 x serial ports, 2 x printer ports
 2071  CC PMC/232
# 4 x serial ports, 2 x printer ports
 2084  CC PMC/23P
# 4 x serial ports, RS422
 2091  CC PMC/422
1260  Intersil Corporation
 3872  ISL3872 [Prism 3]
 1468 0202  LAN-Express IEEE 802.11b Wireless LAN
 3873  ISL3874 [Prism 2.5]/ISL3872 [Prism 3]
 10cf 1169  MBH7WM01-8734 802.11b Wireless Mini PCI Card [ISL3874]
 1186 3501  DWL-520 Wireless PCI Adapter (rev A or B) [ISL3874]
 1186 3700  DWL-520 Wireless PCI Adapter (rev E1) [ISL3872]
 1385 4105  MA311 802.11b wireless adapter [ISL3874]
 1668 0414  HWP01170-01 802.11b PCI Wireless Adapter
 16a5 1601  AIR.mate PC-400 PCI Wireless LAN Adapter
 1737 3874  WMP11 v1 802.11b Wireless-B PCI Adapter [ISL3874]
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 4033 7033  PCW200 802.11b Wireless PCI Adapter [ISL3874]
 8086 2510  M3AWEB Wireless 802.11b MiniPCI Adapter
 8086 2513  Wireless 802.11b MiniPCI Adapter
3877  ISL3877 [Prism Indigo]
3886
ISL3886 [Prism Javelin/Prism Xbow]
 17cf 0037  XG-901 and clones Wireless Adapter
3890  ISL3890 [Prism GT/Prism Duette]/ISL3886 [Prism Javelin/Prism Xbow]
 10b8 2802  SMC2802W V1 Wireless PCI Adapter [ISL3890]
 10b8 2835  SMC2835W Wireless Cardbus Adapter
 10b8 a835  SMC2835W V2 Wireless Cardbus Adapter
 1113 4203  WN4201B
 1113 8201  T-Com T-Sinus 154pcicard Wireless PCI Adapter
 1113 b301  T-Sinus 154card Cardbus
 1113 ee03  SMC2802W V2 Wireless PCI Adapter [ISL3886]
 1113 ee08  SMC2835W V3 EU Wireless Cardbus Adapter
 1186 3202  DWL-G650 A1 Wireless Adapter
 1259 c104  CG-WLCB54GT Wireless Adapter
 1260 0000  WG511 v1 54 Mbps Wireless PC Card
 1385 4800  WG511 v2/v3 54 Mbps Wireless PC Card
 16a5 1605  ALLNET ALL0271 Wireless PCI Adapter
 17cf 0014  XG-600 and clones Wireless Adapter
 17cf 0020  XG-900 and clones Wireless Adapter
 187e 3403  G-110 802.11g Wireless Cardbus Adapter
8130  HMP8130 NTSC/PAL Video Decoder
8131  HMP8131 NTSC/PAL Video Decoder
# This is
 probably more likely a HW fault, but I am keeping it for now --mj
 ffff  ISL3886IK
 1260 0000  Senao 3054MP+ (J) mini-PCI WLAN 802.11g adapter
1261  Matsushita-Kotobuki Electronics Industries, Ltd.
1262  ES Computer Company, Ltd.
1263  Sonic Solutions
1264  Aval Nagasaki Corporation
1265  Casio Computer Co., Ltd.
1266  Microdyne Corporation
 0001  NE10/100 Adapter (i82557B)
 1910  NE2000Plus (RT8029) Ethernet Adapter
 1266 1910  NE2000Plus Ethernet Adapter
1267  S. A. Telecommunications
 5352  PCR2101
 5a4b  Telsat Turbo
1268  Tektronix
1269  Thomson-CSF/TTM
126a  Lexmark International, Inc.
126b  Adax, Inc.
126c  Northern Telecom
 1211  10/100BaseTX [RTL81xx]
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126c 802.11b Wireless Ethernet Adapter
126d Splash Technology, Inc.
126e Sumitomo Metal Industries, Ltd.
126f Silicon Motion, Inc.
0501 SM501 VoyagerGX Rev. AA
0510 SM501 VoyagerGX Rev. B
0710 SM710 LynxEM
0712 SM712 LynxEM+
0718 SM718 LynxSE+
0720 SM720 Lynx3DM
0730 SM731 Cougar3DR
0750 SM750
0810 SM810
LynxE
0811 SM811 LynxE
0820 SM820 Lynx3D
0910 SM910
1270 Olympus Optical Co., Ltd.
1271 GW Instruments
1272 Telematics International
1273 Hughes Network Systems
0002 DirecPC
1274 Ensoniq
1171 ES1373 / Creative Labs CT5803 [AudioPCI]
1371 ES1371/ES1373 / Creative Labs CT2518
0e11 0024 AudioPCI on Motherboard Compaq Deskpro
0e11 b1a7 ES1371, ES1373 AudioPCI
1033 80ac ES1371, ES1373 AudioPCI
1042 1854 Tazer
107b 8054 Tabor2
1274 1371 Audio PCI 64V/128/5200 / Creative CT4810/CT5803/CT5806 [Sound Blaster PCI]
1274 8001 CT4751 board
1462 6470 ES1371, ES1373 AudioPCI On Motherboard MS-6147 1.1A
1462 6560 ES1371, ES1373 AudioPCI On Motherboard MS-6156 1.10
1462 6630 ES1371, ES1373 AudioPCI On Motherboard MS-6163BX 1.0A
1462 6631 ES1371, ES1373 AudioPCI On Motherboard MS-6163VIA 1.0A
1462 6632 ES1371, ES1373 AudioPCI On Motherboard MS-6163BX 2.0A
1462 6633 ES1371, ES1373 AudioPCI On Motherboard MS-6163VIA 2.0A
1462 6820 ES1371, ES1373 AudioPCI
On Motherboard MS-6182 1.00
1462 6822 ES1371, ES1373 AudioPCI On Motherboard MS-6182 1.00A
1462 6830 ES1371, ES1373 AudioPCI On Motherboard MS-6183 1.00
1462 6880 ES1371, ES1373 AudioPCI On Motherboard MS-6188 1.00
1462 6900 ES1371, ES1373 AudioPCI On Motherboard MS-6190 1.00
1462 6910 ES1371, ES1373 AudioPCI On Motherboard MS-6191
1462 6930 ES1371, ES1373 AudioPCI On Motherboard MS-6193
1462 6990 ES1371, ES1373 AudioPCI On Motherboard MS-6199BX 2.0A
1462 6991 ES1371, ES1373 AudioPCI On Motherboard MS-6199VIA 2.0A

14a4 2077 ES1371, ES1373 AudioPCI On Motherboard KR639
14a4 2105 ES1371, ES1373 AudioPCI On Motherboard MR800
14a4 2107 ES1371, ES1373 AudioPCI On Motherboard MR801
14a4 2172 ES1371, ES1373 AudioPCI On Motherboard DR739
1509 9902 ES1371, ES1373 AudioPCI On Motherboard KW11
1509 9903 ES1371, ES1373 AudioPCI On Motherboard KW31
1509 9904 ES1371, ES1373 AudioPCI On Motherboard KA11
1509 9905 ES1371, ES1373 AudioPCI On Motherboard
KC13
152d 8801 ES1371, ES1373 AudioPCI On Motherboard CP810E
152d 8802 ES1371, ES1373 AudioPCI On Motherboard CP810
152d 8803 ES1371, ES1373 AudioPCI On Motherboard P3810E
152d 8804 ES1371, ES1373 AudioPCI On Motherboard P3810-S
152d 8805 ES1371, ES1373 AudioPCI On Motherboard P3820-S
270f 2001 ES1371, ES1373 AudioPCI On Motherboard 6CTR
270f 2200 ES1371, ES1373 AudioPCI On Motherboard 6WTX
270f 3000 ES1371, ES1373 AudioPCI On Motherboard 6WSV
270f 3100 ES1371, ES1373 AudioPCI On Motherboard 6WIV2
270f 3102 ES1371, ES1373 AudioPCI On Motherboard 6WIV
270f 7060 ES1371, ES1373 AudioPCI On Motherboard 6ASA2
8086 4249 ES1371, ES1373 AudioPCI On Motherboard BI440ZX
8086 424c ES1371, ES1373 AudioPCI On Motherboard BL440ZX
8086 425a ES1371, ES1373 AudioPCI On Motherboard BZ440ZX
8086 4341 ES1371, ES1373 AudioPCI On Motherboard Cayman
8086 4343 ES1371, ES1373 AudioPCI On Motherboard Cape Cod
8086 4541 D815EEA Motherboard
8086 4649 ES1371,
ES1373 AudioPCI On Motherboard Fire Island
8086 464a ES1371, ES1373 AudioPCI On Motherboard FJ440ZX
8086 4d4f ES1371, ES1373 AudioPCI On Motherboard Montreal
8086 4f43 ES1371, ES1373 AudioPCI On Motherboard OC440LX
8086 5243 ES1371, ES1373 AudioPCI On Motherboard RC440BX
8086 5352 ES1371, ES1373 AudioPCI On Motherboard SunRiver
8086 5643 ES1371, ES1373 AudioPCI On Motherboard Vancouver
8086 5753 ES1371, ES1373 AudioPCI On Motherboard WS440BX
5000 ES1370 [AudioPCI]
5880 5880B / Creative Labs CT5880
1274 2000 Creative CT4810 [Sound Blaster AudioPCI 128]
1274 2003 Creative SoundBlaster AudioPCI 128
1274 5880 Creative CT4750 [Sound Blaster PCI 128]
1274 8001 Sound Blaster 16PCI 4.1ch
1458 a000 5880 AudioPCI On Motherboard 6OXET
1462 6880 5880 AudioPCI On Motherboard MS-6188 1.00
270f 2001 5880 AudioPCI On Motherboard 6CTR
270f 2200 5880 AudioPCI On Motherboard 6WTX
270f 7040 5880 AudioPCI On Motherboard 6ATA4
8001 CT5880 [AudioPCI]
8002

5880A [AudioPCI]
1275 Network Appliance Corporation
1276 Switched Network Technologies, Inc.
1277 Comstream
1278 Transtech Parallel Systems Ltd.
0701 TPE3/TM3 PowerPC Node
0710 TPE5 PowerPC PCI board
1100 PMC-FPGA02
1101 TS-C43 card with 4 ADSP-TS101 processors
1279 Transmeta Corporation
0060 TM8000 Northbridge
0061 TM8000 AGP bridge
0295 Northbridge
0395 LongRun Northbridge
0396 SDRAM controller
0397 BIOS scratchpad
127a Rockwell International
1002 HCF 56k Data/Fax Modem
1092 094c SupraExpress 56i PRO [Diamond SUP2380]
122d 4002 HPG / MDP3858-U
122d 4005 MDP3858-E
122d 4007 MDP3858-A/-NZ
122d 4012 MDP3858-SA
122d 4017 MDP3858-W
122d 4018 MDP3858-W
127a 1002 Rockwell 56K D/F HCF Modem
1003 HCF 56k Data/Fax Modem
0e11 b0bc 229-DF Zephyr
0e11 b114 229-DF Cheetah
1033 802b 229-DF
13df 1003 PCI56RX Modem
13e0 0117 IBM
13e0 0147 IBM F-1156IV+/R3 Spain V.90 Modem
13e0 0197 IBM
13e0 01c7 IBM F-1156IV+/R3 WW
V.90 Modem
13e0 01f7 IBM
1436 1003 IBM
1436 1103 IBM 5614PM3G V.90 Modem
1436 1602 Compaq 229-DF Ducati
1004 HCF 56k Data/Fax/Voice Modem
1048 1500 MicroLink 56k Modem
10cf 1059 Fujitsu 229-DFRT
1005 HCF 56k Data/Fax/Voice/Spkp (w/Handset) Modem
1005 127a AOpen FM56-P
1033 8029 229-DFSV
1033 8054 Modem
10cf 103c Fujitsu

10cf 1055 Fujitsu 229-DFSV
10cf 1056 Fujitsu 229-DFSV
122d 4003 MDP3858SP-U
122d 4006 Packard Bell MDP3858V-E
122d 4008 MDP3858SP-A/SP-NZ
122d 4009 MDP3858SP-E
122d 4010 MDP3858V-U
122d 4011 MDP3858SP-SA
122d 4013 MDP3858V-A/V-NZ
122d 4015 MDP3858SP-W
122d 4016 MDP3858V-W
122d 4019 MDP3858V-SA
13df 1005 PCI56RVP Modem
13e0 0187 IBM
13e0 01a7 IBM
13e0 01b7 IBM DF-1156IV+/R3 Spain V.90 Modem
13e0 01d7 IBM DF-1156IV+/R3 WW V.90 Modem
1436 1005 IBM
1436 1105 IBM
1437 1105 IBM 5614PS3G V.90 Modem
1022 HCF 56k Modem
1436 1303 M3-5614PM3G V.90 Modem
1023 HCF 56k Data/Fax Modem
122d
4020 Packard Bell MDP3858-WE
122d 4023 MDP3858-UE
13e0 0247 IBM F-1156IV+/R6 Spain V.90 Modem
13e0 0297 IBM
13e0 02c7 IBM F-1156IV+/R6 WW V.90 Modem
1436 1203 IBM
1436 1303 IBM
1024 HCF 56k Data/Fax/Voice Modem
1025 HCF 56k Data/Fax/Voice/Spkp (w/Handset) Modem
10cf 106a Fujitsu 235-DFSV
122d 4021 Packard Bell MDP3858V-WE
122d 4022 MDP3858SP-WE
122d 4024 MDP3858V-UE
122d 4025 MDP3858SP-UE
1026 HCF 56k PCI Speakerphone Modem
1032 HCF 56k Modem
1033 HCF 56k Modem
1034 HCF 56k Modem
1035 HCF 56k PCI Speakerphone Modem
1036 HCF 56k Modem
1085 HCF 56k Volcano PCI Modem
2004 HSF 56k Data/Fax/Voice/Spkp (w/Handset) Modem
2005 HCF 56k Data/Fax Modem
104d 8044 229-DFSV

104d 8045 229-DFSV
104d 8055 PBE/Aztech 235W-DFSV
104d 8056 235-DFSV
104d 805a Modem
104d 805f Modem
104d 8074 Modem
2013 HSF 56k Data/Fax Modem
1179 0001 Modem
1179 ff00 Modem
2014 HSF 56k Data/Fax/Voice Modem
10cf 1057 Fujitsu Citicorp
III
122d 4050 MSP3880-U
122d 4055 MSP3880-W
2015 HSF 56k Data/Fax/Voice/Spkp (w/Handset) Modem
10cf 1063 Fujitsu
10cf 1064 Fujitsu
1468 2015 Fujitsu
2016 HSF 56k Data/Fax/Voice/Spkp Modem
122d 4051 MSP3880V-W
122d 4052 MSP3880SP-W
122d 4054 MSP3880V-U
122d 4056 MSP3880SP-U
122d 4057 MSP3880SP-A
4311 Riptide HSF 56k PCI Modem
127a 4311 Ring Modular? Riptide HSF RT HP Dom
13e0 0210 HP-GVC
4320 Riptide PCI Audio Controller
1235 4320 Riptide PCI Audio Controller
4321 Riptide HCF 56k PCI Modem
1235 4321 Hewlett Packard DF
1235 4324 Hewlett Packard DF
13e0 0210 Hewlett Packard DF
144d 2321 Riptide
4322 Riptide PCI Game Controller
1235 4322 Riptide PCI Game Controller
8234 RapidFire 616X ATM155 Adapter
108d 0022 RapidFire 616X ATM155 Adapter
108d 0027 RapidFire 616X ATM155 Adapter
127b Pixera Corporation
127c Crosspoint Solutions, Inc.
127d Vela Research
127e Winnov, L.P.
0010 Videum 1000 Plus
127f Fujifilm
1280
Photoscript Group Ltd.
1281 Yokogawa Electric Corporation

1282 Davicom Semiconductor, Inc.
6585 DM562P V90 Modem
9009 Ethernet 100/10 MBit
9100 21x4x DEC-Tulip compatible 10/100 Ethernet
9102 21x4x DEC-Tulip compatible 10/100 Ethernet
Subsystem ID is main ID reveresed.
0291 8212 DM9102A (DM9102AE, SM9102AF) Ethernet 100/10 MBit
9132 Ethernet 100/10 MBit
1283 Integrated Technology Express, Inc.
673a IT8330G
8152 IT8152F/G Advanced RISC-to-PCI Companion Chip
8211 ITE 8211F Single Channel UDMA 133
1043 8138 P5GD1-VW Mainboard
8212 IT8212 Dual channel ATA RAID controller
1283 0001 IT/ITE8212 Dual channel ATA RAID controller
8213 IT8213 IDE Controller
1458 b000 GA-EG45M-DS2H Mainboard
8330 IT8330G
8872 IT887xF PCI to ISA I/O chip with SMB, GPIO, Serial or Parallel Port
8888 IT8888F/G PCI to ISA Bridge with SMB [Golden Gate]
8889 IT8889F PCI to ISA Bridge
8892 IT8892E PCIe to PCI Bridge
8893 IT8893E PCIe to PCI Bridge
e886 IT8330G
1284
Sahara Networks, Inc.
1285 Platform Technologies, Inc.
0100 AGOGO sound chip (aka ESS Maestro 1)
1286 Mazet GmbH
1287 M-Pact, Inc.
001e LS220D DVD Decoder
001f LS220C DVD Decoder
1288 Timestep Corporation
1289 AVC Technology, Inc.
128a Asante Technologies, Inc.
128b Transwitch Corporation
128c Retix Corporation
128d G2 Networks, Inc.
0021 ATM155 Adapter
128e Hoontech Corporation/Samho Multi Tech Ltd.
0008 ST128 WSS/SB
0009 ST128 SAM9407
000a ST128 Game Port
000b ST128 MPU Port
000c ST128 Ctrl Port
128f Tateno Dennou, Inc.
1290 Sord Computer Corporation
1291 NCS Computer Italia

1292 Tritech Microelectronics Inc
fc02 Pyramid3D TR25202
1293 Media Reality Technology
1294 Rhetorex, Inc.
1295 Imagenation Corporation
0800 PXR800
1000 PXD1000
1296 Kofax Image Products
1297 Holco Enterprise Co, Ltd/Shuttle Computer
1298 Spellcaster Telecommunications Inc.
1299 Knowledge Technology Lab.
129a VMetro, inc.
0615 PBT-615 PCI-X Bus Analyzer
1100 PMC-FPGA05
1106
XMC-FPGA05F, PCI interface
1107 XMC-FPGA05F, PCIe interface
1108 XMC-FPGA05D, PCI interface
1109 XMC-FPGA05D, PCIe interface
129b Image Access
129c Jaycor
129d Compcore Multimedia, Inc.
129e Victor Company of Japan, Ltd.
129f OEC Medical Systems, Inc.
12a0 Allen-Bradley Company
12a1 Simpact Associates, Inc.
12a2 Newgen Systems Corporation
12a3 Lucent Technologies
8105 T8105 H100 Digital Switch
12a4 NTT Electronics Corporation
12a5 Vision Dynamics Ltd.
12a6 Scalable Networks, Inc.
12a7 AMO GmbH
12a8 News Datacom
12a9 Xiotech Corporation
12aa SDL Communications, Inc.
12ab YUAN High-Tech Development Co., Ltd.
0000 MPG160/Kuroutoshikou ITVC15-STVLP
0002 AU8830 [Vortex2] Based Sound Card With A3D Support
0003 T507 (DVB-T) TV tuner/capture device
2300 Club-3D Zap TV2100
3000 MPG-200C PCI DVD Decoder Card
4789 MPC788 MiniPCI Hybrid TV Tuner
fff3 MPG600/Kuroutoshikou ITVC16-STVLP
ffff MPG600/Kuroutoshikou ITVC16-STVLP
12ac Measurex Corporation
12ad

Multidata GmbH
12ae Alteon Networks Inc.
0001 AceNIC Gigabit Ethernet
1014 0104 Gigabit Ethernet-SX PCI Adapter
12ae 0001 Gigabit Ethernet-SX (Universal)
0002 AceNIC Gigabit Ethernet (Copper)
10a9 8002 Acenic Gigabit Ethernet
12ae 0002 Gigabit Ethernet-T (3C986-T)
00fa Farallon PN9100-T Gigabit Ethernet
12af TDK USA Corp
12b0 Jorge Scientific Corp
12b1 GammaLink
12b2 General Signal Networks
12b3 Inter-Face Co Ltd
12b4 FutureTel Inc
12b5 Granite Systems Inc.
12b6 Natural Microsystems
12b7 Cognex Corporation
12b8 Korg
Nee US Robotics
12b9 3Com Corp, Modem Division
1006 WinModem
12b9 005c USR 56k Internal Voice WinModem (Model 3472)
12b9 005e USR 56k Internal WinModem (Models 662975)
12b9 0062 USR 56k Internal Voice WinModem (Model 662978)
12b9 0068 USR 56k Internal Voice WinModem (Model 5690)
12b9 007a USR 56k Internal Voice WinModem (Model 662974)
12b9 007f USR 56k Internal WinModem (Models 5698, 5699)
12b9 0080 USR 56k
Internal WinModem (Models 2975, 3528)
12b9 0081 USR 56k Internal Voice WinModem (Models 2974, 3529)
12b9 0091 USR 56k Internal Voice WinModem (Model 2978)
1007 USR 56k Internal WinModem
12b9 00a3 USR 56k Internal WinModem (Model 3595)
12b9 00c4 U.S. Robotics V.92 Voice Faxmodem (2884A/B/C)
1008 56K FaxModem Model 5610
12b9 00a2 USR 56k Internal FAX Modem (Model 2977)
12b9 00aa USR 56k Internal Voice Modem (Model 2976)
12b9 00ab USR 56k Internal Voice Modem (Model 5609)
12b9 00ac USR 56k Internal Voice Modem (Model 3298)
12b9 00ad USR 56k Internal FAX Modem (Model 5610)
12b9 00d3 USR 56K Internal V92 FAX Modem (Model 5610)
12b9 baba USR 56K Internal Voice Modem 3CP3298-DEL (Model 5601) [Hawk]
12ba BittWare, Inc.
12bb Nippon Unisoft Corporation
12bc Array Microsystems
12bd Computerm Corp.
12be Anchor Chips Inc.

3041 AN3041Q CO-MEM
3042 AN3042Q CO-MEM Lite
12be 3042 Anchor Chips Lite Evaluation Board
12bf Fujifilm Microdevices
12c0 Infimed
12c1
GMM Research Corp
12c2 Mentec Limited
12c3 Holtek Microelectronics Inc
0058 PCI NE2K Ethernet
5598 PCI NE2K Ethernet
12c4 Connect Tech Inc
0001 Blue HEAT/PCI 8 (RS232/CL/RJ11)
0002 Blue HEAT/PCI 4 (RS232)
0003 Blue HEAT/PCI 2 (RS232)
0004 Blue HEAT/PCI 8 (UNIV, RS485)
0005 Blue HEAT/PCI 4+4/6+2 (UNIV, RS232/485)
0006 Blue HEAT/PCI 4 (OPTO, RS485)
0007 Blue HEAT/PCI 2+2 (RS232/485)
0008 Blue HEAT/PCI 2 (OPTO, Tx, RS485)
0009 Blue HEAT/PCI 2+6 (RS232/485)
000a Blue HEAT/PCI 8 (Tx, RS485)
000b Blue HEAT/PCI 4 (Tx, RS485)
000c Blue HEAT/PCI 2 (20 MHz, RS485)
000d Blue HEAT/PCI 2 PTM
0100 NT960/PCI
0201 cPCI Titan - 2 Port
0202 cPCI Titan - 4 Port
0300 CTI PCI UART 2 (RS232)
0301 CTI PCI UART 4 (RS232)
0302 CTI PCI UART 8 (RS232)
0310 CTI PCI UART 1+1 (RS232/485)
0311 CTI PCI UART 2+2 (RS232/485)
0312 CTI PCI UART 4+4 (RS232/485)
0320 CTI PCI UART 2
0321 CTI PCI UART 4
0322 CTI PCI UART 8
0330 CTI PCI UART 2 (RS485)
0331
CTI PCI UART 4 (RS485)
0332 CTI PCI UART 8 (RS485)
12c5 Picture Elements Incorporated
007e Imaging/Scanning Subsystem Engine
007f Imaging/Scanning Subsystem Engine
0081 PCIVST [Grayscale Thresholding Engine]
0085 Video Simulator/Sender
0086 THR2 Multi-scale Thresholder
12c6 Mitani Corporation

12c7 Dialogic Corp
12 Line, 6 port, CT-BUS/SC-BUS, loopstart FXO adaptor.
 0546 Springware D/120JCT-LS
24 Channel, 1 Port, CT-BUS/SC-BUS, T1/PRI adaptor.
 0647 Springware D/240JCT-T1
4 Line, 4 port, CT-BUS/SC-BUS, loopstart FXO adaptor. Revision 01
 0676 Springware D/41JCT-LS
48 Channel, 2 Port, CT-BUS/SC-BUS, T1/PRI adaptor.
 0685 Springware D/480JCT-2T1
12c8 G Force Co, Ltd
12c9 Gigi Operations
12ca Integrated Computing Engines
12cb Antex Electronics Corporation
 0027 SC4 (StudioCard)
 002e StudioCard 2000
12cc Pluto Technologies International
12cd Aims Lab
12ce Netspeed Inc.
12cf Prophet Systems, Inc.
12d0 GDE Systems, Inc.
12d1 PSITech
12d2 NVidia / SGS
 Thomson (Joint Venture)
 0008 NV1
 0009 DAC64
 0018 Riva128
  1048 0c10 VICTORY Erazor
  107b 8030 STB Velocity 128
  1092 0350 Viper V330
  1092 1092 Viper V330
  10b4 1b1b STB Velocity 128
  10b4 1b1d STB Velocity 128
  10b4 1b1e STB Velocity 128, PAL TV-Out
  10b4 1b20 STB Velocity 128 Sapphire
  10b4 1b21 STB Velocity 128
  10b4 1b22 STB Velocity 128 AGP, NTSC TV-Out
  10b4 1b23 STB Velocity 128 AGP, PAL TV-Out
  10b4 1b27 STB Velocity 128 DVD
  10b4 1b88 MVP Pro 128
  10b4 222a STB Velocity 128 AGP
  10b4 2230 STB Velocity 128
  10b4 2232 STB Velocity 128
  10b4 2235 STB Velocity 128 AGP
  2a15 54a3 3DVision-SAGP / 3DexPlorer 3000
 0019 Riva128ZX
 0020 TNT
 0028 TNT2
 0029 UTNT2

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 002c  VTNT2
 00a0  ITNT2
12d3  Vingmed Sound A/S
12d4  Ulticom (Formerly DGM&S)
 0200  T1 Card
12d5  Equator Technologies Inc
 0003  BSP16
 1000  BSP15
12d6  Analogic Corp
12d7  Biotronic SRL
# acquired by Diodes Inc.
12d8  Pericom Semiconductor
 01a7  7C21P100 2-port PCI-X to PCI-X
 Bridge
# 3Port-3Lane PCI Express Switch GreenPacket Family
 0303  PCI Express Switch 3-3
# PI7C9X20508GP 5Port-8Lane PCI Express Switch GreenPacket Family
 0508  PI7C9X20508GP PCI Express Switch 5Port-8Lane
 2304  PI7C9X2G304 EL/SL PCIe2 3-Port/4-Lane Packet Switch
 2404  PI7C9X2G404 EL/SL PCIe2 4-Port/4-Lane Packet Switch
 2608  PI7C9X2G608GP PCIe2 6-Port/8-Lane Packet Switch
 400a  PI7C9X442SL PCI Express Bridge Port
 400e  PI7C9X442SL USB OHCI Controller
 400f  PI7C9X442SL USB EHCI Controller
 71e2  PI7C7300A/PI7C7300D PCI-to-PCI Bridge
 71e3  PI7C7300A/PI7C7300D PCI-to-PCI Bridge (Secondary Bus 2)
 8140  PI7C8140A PCI-to-PCI Bridge
 8148  PI7C8148A/PI7C8148B PCI-to-PCI Bridge
 8150  PCI to PCI Bridge
 8152  PI7C8152A/PI7C8152B/PI7C8152BI PCI-to-PCI Bridge
 8154  PI7C8154A/PI7C8154B/PI7C8154BI PCI-to-PCI Bridge
 e110  PI7C9X110 PCI Express to PCI bridge
  1775 11cc  CC11/CL11 CompactPCI Bridge
 e111  PI7C9X111SL PCIe-to-PCI Reversible Bridge
 e130  PCI Express to PCI-XPI7C9X130 PCI-X
 Bridge
12d9  Aculab PLC
 0002  PCI Prosody
 0004  cPCI Prosody
 0005  Aculab E1/T1 PCI card
 1078  Prosody X class e1000 device
  12d9 000d  Prosody X PCI
  12d9 000e  Prosody X cPCI
12da  True Time Inc.
12db  Annapolis Micro Systems, Inc
12dc  Symicron Computer Communication Ltd.
12dd  Management Graphics
12de  Rainbow Technologies
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0200 CryptoSwift CS200
12df SBS Technologies Inc
12e0 Chase Research
0010 ST16C654 Quad UART
0020 ST16C654 Quad UART
0030 ST16C654 Quad UART
12e1 Nintendo Co, Ltd
12e2 Datum Inc. Bancomm-Timing Division
12e3 Imation Corp - Medical Imaging Systems
12e4 Brooktrout Technology Inc
12e5 Apex Semiconductor Inc
12e6 Cirel Systems
12e7 Sunsgroup Corporation
12e8 Crisc Corp
12e9 GE Spacenet
12ea Zuken
12eb Aureal Semiconductor
0001 Vortex 1
104d 8036 AU8820 Vortex Digital Audio Processor
1092 2000 Sonic Impact A3D
1092 2100 Sonic Impact A3D
1092 2110 Sonic Impact A3D
1092 2200 Sonic Impact A3D
122d 1002 AU8820 Vortex Digital
Audio Processor
12eb 0001 AU8820 Vortex Digital Audio Processor
5053 3355 Montego
50b2 1111 XLerate
0002 Vortex 2
104d 8049 AU8830 Vortex 3D Digital Audio Processor
104d 807b AU8830 Vortex 3D Digital Audio Processor
1092 3000 Monster Sound II
1092 3001 Monster Sound II
1092 3002 Monster Sound II
1092 3003 Monster Sound II
1092 3004 Monster Sound II
12eb 0002 AU8830 Vortex 3D Digital Audio Processor
12eb 0088 AU8830 Vortex 3D Digital Audio Processor
144d 3510 AU8830 Vortex 3D Digital Audio Processor
5053 3356 Montego II
0003 AU8810 Vortex Digital Audio Processor
104d 8049 AU8810 Vortex Digital Audio Processor
104d 8077 AU8810 Vortex Digital Audio Processor
109f 1000 AU8810 Vortex Digital Audio Processor
12eb 0003 AU8810 Vortex Digital Audio Processor
1462 6780 AU8810 Vortex Digital Audio Processor
14a4 2073 AU8810 Vortex Digital Audio Processor
14a4 2091 AU8810 Vortex Digital Audio Processor

14a4 2104 AU8810 Vortex
Digital Audio Processor
14a4 2106 AU8810 Vortex Digital Audio Processor
8803 Vortex 56k Software Modem
12eb 8803 Vortex 56k Software Modem
12ec 3A International, Inc.
12ed Optivision Inc.
12ee Orange Micro
12ef Vienna Systems
12f0 Pentek
12f1 Sorenson Vision Inc
12f2 Gammagraphx, Inc.
12f3 Radstone Technology
12f4 Megatel
12f5 Forks
12f6 Dawson France
12f7 Cognex
12f8 Electronic Design GmbH
0002 VideoMaker
12f9 Four Fold Ltd
12fb Spectrum Signal Processing
0001 PMC-MAI
00f5 F5 Dakar
02ad PMC-2MAI
2adc ePMC-2ADC
3100 PRO-3100
3500 PRO-3500
4d4f Modena
8120 ePMC-8120
da62 Daytona C6201 PCI (Hurricane)
db62 Ingliston XBIF
dc62 Ingliston PLX9054
dd62 Ingliston JTAG/ISP
eddc ePMC-MSDDC
fa01 ePMC-FPGA
12fc Capital Equipment Corp
12fd I2S
12fe ESD Electronic System Design GmbH
12ff Lexicon
1300 Harman International Industries Inc
1302 Computer Sciences Corp
1303 Innovative Integration
0030 X3-SDF 4-channel XMC acquisition board
1304
Juniper Networks
1305 Netphone, Inc
1306 Duet Technologies
Nee ComputerBoards

1307 Measurement Computing
0001 PCI-DAS1602/16
000b PCI-DIO48H
000c PCI-PDISO8
000d PCI-PDISO16
000f PCI-DAS1200
0010 PCI-DAS1602/12
0014 PCI-DIO24H
0015 PCI-DIO24H/CTR3
0016 PCI-DIO48H/CTR15
0017 PCI-DIO96H
0018 PCI-CTR05
0019 PCI-DAS1200/JR
001a PCI-DAS1001
001b PCI-DAS1002
001c PCI-DAS1602JR/16
001d PCI-DAS6402/16
001e PCI-DAS6402/12
001f PCI-DAS16/M1
0020 PCI-DDA02/12
0021 PCI-DDA04/12
0022 PCI-DDA08/12
0023 PCI-DDA02/16
0024 PCI-DDA04/16
0025 PCI-DDA08/16
0026 PCI-DAC04/12-HS
0027 PCI-DAC04/16-HS
0028 PCI-DIO24
0029 PCI-DAS08
002c PCI-INT32
0033 PCI-DUAL-AC5
0034 PCI-DAS-TC
0035 PCI-DAS64/M1/16
0036 PCI-DAS64/M2/16
0037 PCI-DAS64/M3/16
004c PCI-DAS1000
004d PCI-QUAD04
0052 PCI-DAS4020/12
0053 PCIM-DDA06/16
0054 PCI-DIO96
005d PCI-DAS6023
005e PCI-DAS6025
005f PCI-DAS6030
0060 PCI-DAS6031
0061 PCI-DAS6032
0062
PCI-DAS6033
0063 PCI-DAS6034

0064 PCI-DAS6035
0065 PCI-DAS6040
0066 PCI-DAS6052
0067 PCI-DAS6070
0068 PCI-DAS6071
006f PCI-DAS6036
0070 PCI-DAC6702
0078 PCI-DAS6013
0079 PCI-DAS6014
0115 PCIe-DAS1602/16
1308 Jato Technologies Inc.
0001 NetCelerator Adapter
1308 0001 NetCelerator Adapter
1309 AB Semiconductor Ltd
130a Mitsubishi Electric Microcomputer
130b Colorgraphic Communications Corp
130c Ambex Technologies, Inc
130d Accelerix Inc
130e Yamatake-Honeywell Co. Ltd
130f Advanet Inc
1310 Gespac
1311 Videoserver, Inc
1312 Acuity Imaging, Inc
1313 Yaskawa Electric Co.
1315 Wavesat
1316 Teradyne Inc
1317 ADMtek
0981 21x4x DEC-Tulip compatible 10/100 Ethernet
0985 NC100 Network Everywhere Fast Ethernet 10/100
1734 100c Scenic N300 ADMtek AN983 10/100 Mbps PCI Adapter
1985 21x4x DEC-Tulip compatible 10/100 Ethernet
1385 511a FA511
1395 2103 CB100-EZ (4-LED version)
2850 HSP MicroModem 56
5120 ADM5120 OpenGate System-on-Chip
8201
ADM8211 802.11b Wireless Interface
10b8 2635 SMC2635W v1 802.11b Wireless Cardbus Adapter
1317 8201 SMC2635W v2 802.11b Wireless Cardbus Adapter
8211 ADM8211 802.11b Wireless Interface
9511 21x4x DEC-Tulip compatible 10/100 Ethernet
1318 Packet Engines Inc.
0911 GNIC-II PCI Gigabit Ethernet [Hamachi]
1319 Fortemedia, Inc
0801 Xwave QS3000A [FM801]
1319 1319 FM801 PCI Audio
0802 Xwave QS3000A [FM801 game port]
1319 1319 FM801 PCI Joystick

1000 FM801 PCI Audio
1001 FM801 PCI Joystick
131a Finisar Corp.
131c Nippon Electro-Sensory Devices Corp
131d Sysmic, Inc.
131e Xinex Networks Inc
131f Siig Inc
1000 CyberSerial (1-port) 16550
1001 CyberSerial (1-port) 16650
1002 CyberSerial (1-port) 16850
1010 Duet 1S(16550)+1P
1011 Duet 1S(16650)+1P
1012 Duet 1S(16850)+1P
1020 CyberParallel (1-port)
1021 CyberParallel (2-port)
1030 CyberSerial (2-port) 16550
1031 CyberSerial (2-port) 16650
1032 CyberSerial (2-port) 16850
1034 Trio 2S(16550)+1P
1035
Trio 2S(16650)+1P
1036 Trio 2S(16850)+1P
1050 CyberSerial (4-port) 16550
1051 CyberSerial (4-port) 16650
1052 CyberSerial (4-port) 16850
2000 CyberSerial (1-port) 16550
2001 CyberSerial (1-port) 16650
2002 CyberSerial (1-port) 16850
2010 Duet 1S(16550)+1P
2011 Duet 1S(16650)+1P
2012 Duet 1S(16850)+1P
2020 CyberParallel (1-port)
2021 CyberParallel (2-port)
2030 CyberSerial (2-port) 16550
131f 2030 PCI Serial Card
2031 CyberSerial (2-port) 16650
2032 CyberSerial (2-port) 16850
2040 Trio 1S(16550)+2P
2041 Trio 1S(16650)+2P
2042 Trio 1S(16850)+2P
2050 CyberSerial (4-port) 16550
2051 CyberSerial (4-port) 16650
2052 CyberSerial (4-port) 16850
2060 Trio 2S(16550)+1P
2061 Trio 2S(16650)+1P
2062 Trio 2S(16850)+1P
2081 CyberSerial (8-port) ST16654
1320 Crypto AG

1321 Arcobel Graphics BV
1322 MTT Co., Ltd
1323 Dome Inc
1324 Sphere Communications
1325 Salix Technologies, Inc
1326 Seachange international
1327 Voss scientific
1328
quadrant international
1329 Productivity Enhancement
132a Microcom Inc.
132b Broadband Technologies
132c Micrel Inc
132d Integrated Silicon Solution, Inc.
1330 MMC Networks
1331 RadiSys Corporation
0030 ENP-2611
8200 82600 Host Bridge
8201 82600 IDE
8202 82600 USB
8210 82600 PCI Bridge
1332 Micro Memory
5415 MM-5415CN PCI Memory Module with Battery Backup
5425 MM-5425CN PCI 64/66 Memory Module with Battery Backup
6140 MM-6140D
1334 Redcreek Communications, Inc
1335 Videomail, Inc
1337 Third Planet Publishing
1338 BT Electronics
133a Vtel Corp
133b Softcom Microsystems
133c Holontech Corp
133d SS Technologies
133e Virtual Computer Corp
133f SCM Microsystems
1340 Atalla Corp
1341 Kyoto Microcomputer Co
1342 Promax Systems Inc
1343 Phylon Communications Inc
nee Crucial Technology
1344 Micron Technology Inc
5150 RealSSD P320h
5151 RealSSD P320m
5152 RealSSD P320s
5153 RealSSD P325m
5160 RealSSD P420h
5161 RealSSD P420m
5163 RealSSD

P425m
5180 9100 PRO NVMe SSD
5181 9100 MAX NVMe SSD
5190 9200 ECO NVMe SSD
5191 9200 PRO NVMe SSD
5192 9200 MAX NVMe SSD
1345 Arescom Inc
1347 Odetics
1349 Sumitomo Electric Industries, Ltd.
134a DTC Technology Corp.
0001 Domex 536
0002 Domex DMX3194UP SCSI Adapter
134b ARK Research Corp.
134c Chori Joho System Co. Ltd
134d PCTel Inc
2189 HSP56 MicroModem
2486 2304WT V.92 MDC Modem
7890 HSP MicroModem 56
134d 0001 PCT789 adapter
7891 HSP MicroModem 56
134d 0001 HSP MicroModem 56
7892 HSP MicroModem 56
7893 HSP MicroModem 56
7894 HSP MicroModem 56
7895 HSP MicroModem 56
7896 HSP MicroModem 56
7897 HSP MicroModem 56
134e CSTI
134f Algo System Co Ltd
1350 Systec Co. Ltd
1351 Sonix Inc
nee Thales Idatys
1353 Vierling Communication SAS
0002 Proserver
0003 PCI-FUT
0004 PCI-S0
0005 PCI-FUT-S0
1354 Dwave System Inc
1355 Kratos Analytical Ltd
1356 The Logical Co
1359 Prisa Networks
135a Brain Boxes
0a61 UC-324 [VELOCITY RS422/485]
135b
Giganet Inc
135c Quatech Inc
0010 QSC-100
0020 DSC-100

0030 DSC-200/300
0040 QSC-200/300
0050 ESC-100D
0060 ESC-100M
00f0 MPAC-100 Synchronous Serial Card (Zilog 85230)
0170 QSCLP-100
0180 DSCLP-100
0190 SSCLP-100
01a0 QSCLP-200/300
01b0 DSCLP-200/300
01c0 SSCLP-200/300
0258 DSPSX-200/300
135d ABB Network Partner AB
135e Sealevel Systems Inc
5101 Route 56.PCI - Multi-Protocol Serial Interface (Zilog Z16C32)
7101 Single Port RS-232/422/485/530
7201 Dual Port RS-232/422/485 Interface
7202 Dual Port RS-232 Interface
7401 Four Port RS-232 Interface
7402 Four Port RS-422/485 Interface
7801 Eight Port RS-232 Interface
7804 Eight Port RS-232/422/485 Interface
8001 8001 Digital I/O Adapter
135f I-Data International A-S
1360 Meinberg Funkuhren
0101 PCI32 DCF77 Radio Clock
0102 PCI509 DCF77 Radio Clock
0103 PCI510 DCF77 Radio Clock
0104 PCI511 DCF77 Radio Clock
0105 PEX511 DCF77 Radio Clock (PCI Express)
0106 PZF180PEX
High Precision DCF77 Radio Clock (PCI Express)
0201 GPS167PCI GPS Receiver
0202 GPS168PCI GPS Receiver
0203 GPS169PCI GPS Receiver
0204 GPS170PCI GPS Receiver
0205 GPS170PEX GPS Receiver (PCI Express)
0206 GPS180PEX GPS Receiver (PCI Express)
0207 GLN180PEX GPS/GLONASS receiver (PCI Express)
0208 GPS180AMC GPS Receiver (PCI Express / MicroTCA / AdvancedMC)
0209 GNS181PEX GPS/Galileo/GLONASS/BEIDOU receiver (PCI Express)
0301 TCR510PCI IRIG Timecode Reader
0302 TCR167PCI IRIG Timecode Reader
0303 TCR511PCI IRIG Timecode Reader
0304 TCR511PEX IRIG Timecode Reader (PCI Express)
0305 TCR170PEX IRIG Timecode Reader (PCI Express)
0306 TCR180PEX IRIG Timecode Reader (PCI Express)
0501 PTP270PEX PTP/IEEE1588 slave card (PCI Express)

0601 FRC511PEX Free Running Clock (PCI Express)
1361 Soliton Systems K.K.
1362 Fujifacom Corporation
1363 Phoenix Technology Ltd
1364 ATM Communications Inc
1365 Hypercope GmbH
1366 Teijin Seiki Co. Ltd
1367 Hitachi Zosen Corporation
1368
Skyware Corporation
1369 Digigram
136a High Soft Tech
0004 HST Saphir VII mini PCI
0007 HST Saphir III E MultiLink 4
0008 HST Saphir III E MultiLink 8
000a HST Saphir III E MultiLink 2
136b Kawasaki Steel Corporation
ff01 KL5A72002 Motion JPEG
136c Adtek System Science Co Ltd
136d Gigalabs Inc
136f Applied Magic Inc
1370 ATL Products
1371 CNet Technology Inc
434e GigaCard Network Adapter
1371 434e N-Way PCI-Bus Giga-Card 1000/100/10Mbps(L)
1373 Silicon Vision Inc
1374 Silicom Ltd.
0024 Silicom Dual port Giga Ethernet BGE Bypass Server Adapter
0025 Silicom Quad port Giga Ethernet BGE Bypass Server Adapter
0026 Silicom Dual port Fiber Giga Ethernet 546 Bypass Server Adapter
0027 Silicom Dual port Fiber LX Giga Ethernet 546 Bypass Server Adapter
0029 Silicom Dual port Copper Giga Ethernet 546GB Bypass Server Adapter
002a Silicom Dual port Fiber Giga Ethernet 546 TAP/Bypass Server Adapter
002b Silicom Dual port Copper Fast Ethernet 546
TAP/Bypass Server Adapter (PXE2TBI)
002c Silicom Quad port Copper Giga Ethernet 546GB Bypass Server Adapter (PXG4BPI)
002d Silicom Quad port Fiber-SX Giga Ethernet 546GB Bypass Server Adapter (PXG4BPFI)
002e Silicom Quad port Fiber-LX Giga Ethernet 546GB Bypass Server Adapter (PXG4BPFI-LX)
002f Silicom Dual port Fiber-SX Giga Ethernet 546GB Low profile Bypass Server Adapter (PXG2BPFIL)
0030 Silicom Dual port Fiber-LX Giga Ethernet 546GB Low profile Bypass Server Adapter
0031 Silicom Quad port Copper Giga Ethernet PCI-E Bypass Server Adapter
0032 Silicom Dual port Copper Fast Ethernet 546 TAP/Bypass Server Adapter
0034 Silicom Dual port Copper Giga Ethernet PCI-E BGE Bypass Server Adapter
0035 Silicom Quad port Copper Giga Ethernet PCI-E BGE Bypass Server Adapter
0036 Silicom Dual port Fiber Giga Ethernet PCI-E BGE Bypass Server Adapter
0037 Silicom Dual port Copper Ethernet PCI-E Intel based Bypass Server Adapter
0038 Silicom Quad port Copper Ethernet PCI-E Intel

based Bypass Server Adapter
0039 Silicom Dual port Fiber-SX Ethernet PCI-E Intel based Bypass Server Adapter
003a Silicom Dual port Fiber-LX Ethernet PCI-E Intel based Bypass Server Adapter
003b Silicom Dual port Fiber Ethernet PMC Intel based Bypass Server Adapter (PMCX2BPFI)
003c Silicom Dual port Copper Ethernet PCI-X BGE based Bypass Server Adapter (PXG2BPRB)
003d 2-port Copper GBE Bypass with Caviume 1010 PCI-X
003e Silicom Dual port Fiber Giga Ethernet PCI-E 571 TAP/Bypass Server Adapter (PEG2TBFI)
003f Silicom Dual port Copper Giga Ethernet PCI-X 546 TAP/Bypass Server Adapter (PXG2TBI)
0040 Silicom Quad port Fiber-SX Giga Ethernet 571 Bypass Server Adapter (PEG4BPFI)
0042 4-port Copper GBE PMC-X Bypass
0043 Silicom Quad port Fiber-SX Giga Ethernet 546 Bypass Server Adapter (PXG4BPFID)
0045 Silicom 6 port Copper Giga Ethernet 546 Bypass Server Adapter (PXG6BPI)
0046 4-port bypass PCI-E w disconnect low profile
0047 Silicom Dual port Fiber-SX Giga Ethernet
571 Bypass Disconnect Server Adapter (PEG2BPFID)
004a Silicom Quad port Fiber-LX Giga Ethernet 571 Bypass Server Adapter (PEG4BPFI-LX)
004d Dual port Copper Giga Ethernet PCI-E Bypass Server Adapter
0401 Gigabit Ethernet ExpressModule Bypass Server Adapter
0420 Gigabit Ethernet ExpressModule Bypass Server Adapter
0460 Gigabit Ethernet Express Module Bypass Server Adapter
0461 Gigabit Ethernet ExpressModule Bypass Server Adapter
0462 Gigabit Ethernet ExpressModule Bypass Server Adapter
0470 Octal-port Copper Gigabit Ethernet Express Module Bypass Server Adapter
0482 Dual-port Fiber (SR) 10 Gigabit Ethernet ExpressModule Bypass Server Adapter
0483 Dual-port Fiber (LR) 10 Gigabit Ethernet ExpressModule Bypass Server Adapter
1375 Argosystems Inc
1376 LMC
1377 Electronic Equipment Production & Distribution GmbH
1378 Telemann Co. Ltd
1379 Asahi Kasei Microsystems Co Ltd
137a Mark of the Unicorn Inc
0001 PCI-324 Audiowire Interface
137b PPT Vision
137c Iwatsu
Electric Co Ltd
137d Dynachip Corporation
137e Patriot Scientific Corporation
137f Japan Satellite Systems Inc
1380 Sanritz Automation Co Ltd
1381 Brains Co. Ltd
1382 Marian - Electronic & Software
0001 ARC88 audio recording card
2008 Prodif 96 Pro sound system
2048 Prodif Plus sound system
2088 Marc 8 Midi sound system
20c8 Marc A sound system
4008 Marc 2 sound system
4010 Marc 2 Pro sound system

4048 Marc 4 MIDI sound system
4088 Marc 4 Digi sound system
4248 Marc X sound system
4424 TRACE D4 Sound System
1383 Controlnet Inc
1384 Reality Simulation Systems Inc
1385 Netgear
006b WA301 802.11b Wireless PCI Adapter
4100 MA301 802.11b Wireless PCI Adapter
4601 WAG511 802.11a/b/g Dual Band Wireless PC Card
620a GA620 Gigabit Ethernet
630a GA630 Gigabit Ethernet
1386 Video Domain Technologies
1387 Systran Corp
1388 Hitachi Information Technology Co Ltd
1389 Applicom International
0001 PCI1500PFB [Intelligent fieldbus adaptor]
138a Fusion Micromedia
Corp
003d VFS491 Validity Sensor
138b Tokimec Inc
138c Silicon Reality
138d Future Techno Designs pte Ltd
138e Basler GmbH
138f Patapsco Designs Inc
1390 Concept Development Inc
1391 Development Concepts Inc
1392 Medialight Inc
1393 Moxa Technologies Co Ltd
0001 UC7000 Serial
1020 CP-102 (2-port RS-232 PCI)
1021 CP-102UL (2-port RS-232 Universal PCI)
1022 CP-102U (2-port RS-232 Universal PCI)
1023 CP-102UF
1024 CP-102E (2-port RS-232 Smart PCI Express Serial Board)
1025 CP-102EL (2-port RS-232 Smart PCI Express Serial Board)
1040 Smartio C104H/PCI
1041 CP104U (4-port RS-232 Universal PCI)
1042 CP104JU (4-port RS-232 Universal PCI)
1043 CP104EL (4-port RS-232 Smart PCI Express)
1044 POS104UL (4-port RS-232 Universal PCI)
1045 CP-104EL-A (4-port RS-232 PCI Express Serial Board)
1080 CB108 (8-port RS-232 PC/104-plus Module)
1140 CT-114 series
1141 Industrio CP-114
1142 CB114 (4-port RS-232/422/485 PC/104-plus Module)
1143 CP-114UL (4-port

RS-232/422/485 Smart Universal PCI Serial Board)
1144 CP-114EL (4-port RS-232/422/485 Smart PCI Express Serial Board)
1180 CP118U (8-port RS-232/422/485 Smart Universal PCI)
1181 CP118EL (8-port RS-232/422/485 Smart PCI Express)
1182 CP-118EL-A (8-port RS-232/422/485 PCI Express Serial Board)
1320 CP132 (2-port RS-422/485 PCI)
1321 CP132U (2-Port RS-422/485 Universal PCI)
1322 CP-132EL (2-port RS-422/485 Smart PCI Express Serial Board)
1340 CP134U (4-Port RS-422/485 Universal PCI)
1341 CB134I (4-port RS-422/485 PC/104-plus Module)
1380 CP138U (8-port RS-232/422/485 Smart Universal PCI)
1680 Smartio C168H/PCI
1681 CP-168U V2 Smart Serial Board (8-port RS-232)
1682 CP-168EL (8-port RS-232 Smart PCI Express)
1683 CP-168EL-A (8-port RS-232 PCI Express Serial Board)
2040 Intellio CP-204J
2180 Intellio C218 Turbo PCI
3200 Intellio C320 Turbo PCI
1394 Level One Communications
0001 LXT1001 Gigabit Ethernet
1186 4800 DGE-500SX
1394 0001 NetCelerator
Adapter
1395 Ambicom Inc
1396 Cipher Systems Inc
1397 Cologne Chip Designs GmbH
08b4 ISDN network Controller [HFC-4S]
1397 08b4 HFC-4S [Cologne Chip HFC-4S Eval. Board]
1397 b51a HFC-4S [Allo.com BRI card]
1397 b520 HFC-4S [IOB4ST]
1397 b540 HFC-4S [Swyx SX2 QuadBri]
1397 b550 HFC-4S [Junghanns.NET quadBRI]
1397 b556 HFC-4S [Junghanns.NET duoBRI]
1397 b559 HFC-4S [Junghanns.NET duoBRI miniPCI]
1397 b560 HFC-4S [BeroNet BN4S0]
1397 b566 HFC-4S [BeroNet BN2S0]
1397 b567 HFC-4S [BeroNet BN1S0 miniPCI]
1397 b568 HFC-4S [BeroNet BN4S0 miniPCI]
1397 b569 HFC-4S [BeroNet BN2S0 miniPCI]
1397 b620 HFC-4S
1397 b752 HFC-4S [Junghanns.NET quadBRI PCIe]
1397 b761 HFC-4S [BeroNet BN2S0 PCIe]
1397 b762 HFC-4S [BeroNet BN4S0 PCIe]
1397 e884 HFC-4S [OpenVox B200P]
1397 e888 HFC-4S [OpenVox B200P / B400P]
16b8 ISDN network Controller [HFC-8S]
1397 16b8 HFC-8S [Cologne Chip HFC-8S Eval. Board]
1397 b521 HFC-8S [IOB4ST Recording]

1397
b522 HFC-8S [IOB8ST]
1397 b552 HFC-8S [Junghanns.NET octoBRI]
1397 b55b HFC-8S [Junghanns.NET octoBRI]
1397 b562 HFC-8S [BeroNet BN8S0]
1397 b56b HFC-8S [BeroNet BN8S0+]
1397 b622 HFC-8S
1397 e998 HFC-8S [OpenVox B800P]
2bd0 ISDN network controller [HFC-PCI]
0675 1704 ISDN Adapter (PCI Bus, D, C)
0675 1708 ISDN Adapter (PCI Bus, D, C, ACPI)
1397 2bd0 ISDN Board
e4bf 1000 CI1-1-Harp
30b1 ISDN network Controller [HFC-E1]
1397 30b1 HFC-E1 [Cologne Chip HFC-E1 Eval. Board]
1397 b523 HFC-E1 [IOB1E1]
1397 b543 HFC-E1 [Swyx SX2 SinglePRI V2]
1397 b544 HFC-E1 [Swyx SX2 DualPRI V2]
1397 b553 HFC-E1 [Junghanns.NET singleE1]
1397 b554 HFC-E1 [Junghanns.NET doubleE1]
1397 b555 HFC-E1 [Junghanns.NET doubleE1 2.0]
1397 b55a HFC-E1 [Junghanns.NET singleE1 miniPCI]
1397 b563 HFC-E1 [beroNet BN1E1]
1397 b564 HFC-E1 [beroNet BN2E1]
1397 b565 HFC-E1 [beroNet BN2E1+]
1397 b56a HFC-E1 [beroNet BN1E1 miniPCI]
b700 ISDN network controller
PrimuX S0 [HFC-PCI]
f001 GSM Network Controller [HFC-4GSM]
1398 Clarion co. Ltd
1399 Rios systems Co Ltd
139a Alacritech Inc
0001 Quad Port 10/100 Server Accelerator
0003 Single Port 10/100 Server Accelerator
0005 Single Port Gigabit Server Accelerator
139b Mediasonic Multimedia Systems Ltd
139c Quantum 3d Inc
139d EPL limited
139e Media4
139f Aethra s.r.l.
13a0 Crystal Group Inc
13a1 Kawasaki Heavy Industries Ltd
13a2 Ositech Communications Inc
13a3 Hifn Inc.
0005 7751 Security Processor
0006 6500 Public Key Processor
0007 7811 Security Processor
0012 7951 Security Processor

0014 78XX Security Processor
0016 8065 Security Processor
0017 8165 Security Processor
0018 8154 Security Processor
001d 7956 Security Processor
001f 7855 Security Processor
0020 7955 Security Processor
0026 8155 Security Processor
002e 9630 Compression Processor
002f 9725 Compression and Security Processor
13a3 1600 DR1600 Acceleration Card
13a3 1605 DR1605
Acceleration Card
13a3 1610 DR1610 Acceleration Card
13a3 1615 DR1615 Acceleration Card
13a3 1620 DR1620 Acceleration Card
13a3 1625 DR1625 Acceleration Card
0033 8201 Acceleration Processor
13a3 0036 DX1710 Acceleration Card
0034 8202 Acceleration Processor
13a3 0036 DX1720 Acceleration Card
0035 8203 Acceleration Processor
13a3 0036 DX1730 Acceleration Card
0037 8204 Acceleration Processor
13a3 0036 DX1740 Acceleration Card
13a4 Rascom Inc
13a5 Audio Digital Imaging Inc
13a6 Videonics Inc
13a7 Teles AG
13a8 Exar Corp.
0152 XR17C/D152 Dual PCI UART
0154 XR17C154 Quad UART
0158 XR17C158 Octal UART
0252 XR17V252 Dual UART PCI controller
0254 XR17V254 Quad UART PCI controller
0258 XR17V258 Octal UART PCI controller
0352 XR17V3521 Dual PCIe UART
13a9 Siemens Medical Systems, Ultrasound Group
13aa Broadband Networks Inc
13ab Arcom Control Systems Ltd
13ac Motion Media Technology Ltd
13ad Nexus Inc
13ae ALD Technology Ltd
13af T.Sqware
13b0
Maxspeed Corp
13b1 Tamura corporation
13b2 Techno Chips Co. Ltd

13b3 Lanart Corporation
13b4 Wellbean Co Inc
13b5 ARM
13b6 Dlog GmbH
13b7 Logic Devices Inc
13b8 Nokia Telecommunications oy
13b9 Elecom Co Ltd
13ba Oxford Instruments
13bb Sanyo Technosound Co Ltd
13bc Bitran Corporation
13bd Sharp corporation
13be Miroku Jyoho Service Co. Ltd
13bf Sharewave Inc
13c0 Microgate Corporation
0010 SyncLink Adapter v1
0020 SyncLink SCC Adapter
0030 SyncLink Multiport Adapter
0070 SyncLink GT Adapter
0080 SyncLink GT4 Adapter
00a0 SyncLink GT2 Adapter
0210 SyncLink Adapter v2
13c1 3ware Inc
1000 5xxx/6xxx-series PATA-RAID
1001 7xxx/8xxx-series PATA/SATA-RAID
13c1 1001 7xxx/8xxx-series PATA/SATA-RAID
1002 9xxx-series SATA-RAID
1003 9550SX SATA-II RAID PCI-X
1004 9650SE SATA-II RAID PCIe
1005 9690SA SAS/SATA-II RAID PCIe
1010 9750 SAS2/SATA-II RAID PCIe
13c2 Technotrend Systemtechnik GmbH
000e Technotrend/Hauppauge DVB card rev2.3
1019
TTechnoTrend-budget DVB S2-3200
13c3 Janz Computer AG
13c4 Phase Metrics
13c5 Alphi Technology Corp
13c6 Condor Engineering Inc
0520 CEI-520 A429 Card
0620 CEI-620 A429 Card
0820 CEI-820 A429 Card
0830 CEI-830 A429 Card
1004 P-SER Multi-channel PMC to RS-485/422/232 adapter
13c7 Blue Chip Technology Ltd
0adc PCI-ADC
0b10 PCI-PIO
0d10 PCI-DIO
524c PCI-RLY

5744 PCI-WDT
13c8 Apptech Inc
13c9 Eaton Corporation
13ca Iomega Corporation
13cb Yano Electric Co Ltd
13cc Metheus Corporation
13cd Compatible Systems Corporation
13ce Cocom A/S
13cf Studio Audio & Video Ltd
13d0 Techsan Electronics Co Ltd
2103 B2C2 FlexCopII DVB chip / Technisat SkyStar2 DVB card
2104 B2C2 FlexCopIII DVB chip / Technisat SkyStar2 DVB card (rev 01)
2200 B2C2 FlexCopIII DVB chip / Technisat SkyStar2 DVB card
13d1 Abocom Systems Inc
ab02 ADMtek Centaur-C rev 17 [D-Link DFE-680TX] CardBus Fast Ethernet Adapter
ab03 21x4x DEC-Tulip compatible 10/100 Ethernet
ab06 RTL8139
[FE2000VX] CardBus Fast Ethernet Attached Port Adapter
ab08 21x4x DEC-Tulip compatible 10/100 Ethernet
13d2 Shark Multimedia Inc
13d4 Graphics Microsystems Inc
13d5 Media 100 Inc
13d6 K.I. Technology Co Ltd
13d7 Toshiba Engineering Corporation
13d8 Phobos corporation
13d9 Apex PC Solutions Inc
13da Intresource Systems pte Ltd
13db Janich & Klass Computertechnik GmbH
13dc Netboost Corporation
13dd Multimedia Bundle Inc
13de ABB Robotics Products AB
13df E-Tech Inc
0001 PCI56RVP Modem
13df 0001 PCI56RVP Modem
13e0 GVC Corporation
13e1 Silicom Multimedia Systems Inc
13e2 Dynamics Research Corporation
13e3 Nest Inc
13e4 Calculex Inc
13e5 Telesoft Design Ltd
13e6 Argosy research Inc
13e7 NAC Incorporated
13e8 Chip Express Corporation
13e9 Intraserver Technology Inc
13ea Dallas Semiconductor
13eb Hauppauge Computer Works Inc
13ec Zydacron Inc
000a NPC-RC01 Remote control receiver

13ed Raytheion E-Systems
13ee Hayes Microcomputer Products Inc
13ef Coppercom
Inc
13f0 Sundance Technology Inc / IC Plus Corp
0200 IC Plus IP100A Integrated 10/100 Ethernet MAC + PHY
1043 8213 NX1001
0201 ST201 Sundance Ethernet
1021 TC902x Gigabit Ethernet
1023 IP1000 Family Gigabit Ethernet
1043 8180 NX1101
13f1 Oce' - Technologies B.V.
13f2 Ford Microelectronics Inc
13f3 Mcdata Corporation
13f4 Troika Networks, Inc.
1401 Zentai Fibre Channel Adapter
13f5 Kansai Electric Co. Ltd
13f6 C-Media Electronics Inc
0011 CMI8738
0100 CM8338A
13f6 ffff CMI8338/C3DX PCI Audio Device
0101 CM8338B
13f6 0101 CMI8338-031 PCI Audio Device
0111 CMI8738/CMI8768 PCI Audio
1019 0970 P6STP-FL motherboard
1043 8035 CUSI-FX motherboard
1043 8077 CMI8738 6-channel audio controller
1043 80e2 CMI8738 6ch-MX
13f6 0111 CMI8738/C3DX PCI Audio Device
13f6 9761 Theatron Agrippa
153b 1144 Aureon 5.1
153b 1170 Aureon 7.1
1681 a000 Gamesurround MUSE XL
17ab 0604 PSC604 Dynamic Edge
17ab 0605 PSC605 Sonic Edge
17ab 7777
PSC605 Sonic Edge
270f 1103 CT-7NJS Ultra motherboard
270f f462 7NJL1 motherboard
584d 3731 Digital X-Mystique
584d 3741 X-Plosion 7.1
584d 3751 X-Raider 7.1
584d 3761 X-Mystique 7.1 LP
584d 3771 X-Mystique 7.1 LP Value
7284 8384 Striker 7.1
0211 CM8738
5011 CM8888 [Oxygen Express]
13f6 5011 HDA Controller

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8788  CMI8788 [Oxygen HD Audio]
 1043 8269  Virtuoso 200 (Xonar D2)
 1043 8275  Virtuoso 100 (Xonar DX)
 1043 82b7  Virtuoso 200 (Xonar D2X)
 1043 8314  Virtuoso 200 (Xonar HDAV1.3)
 1043 8327  Virtuoso 100 (Xonar DX)
 1043 834f  Virtuoso 100 (Xonar D1)
 1043 835c  Virtuoso 100 (Xonar Essence STX)
 1043 835d  Virtuoso 100 (Xonar ST)
 1043 835e  Virtuoso 200 (Xonar HDAV1.3 Slim)
 1043 838e  Virtuoso 66 (Xonar DS)
 1043 8428  Virtuoso 100 (Xonar Xense)
 1043 8467  CMI8786 (Xonar DG)
 1043 8521  CMI8786 (Xonar DGX)
 1043 8522  Xonar DSX
 1043 85f4  Virtuoso 100 (Xonar Essence STX II)
 13f6 8782  PCI 2.0 HD Audio
 13f6 ffff  CMI8787-HG2PCI
 14c3
1710  HiFier Fantasia
 14c3 1711  HiFier Serenade
 14c3 1713  HiFier Serenade III
 1a58 0910  Barracuda AC-1
 415a 5431  X-Meridian 7.1
 5431 017a  X-Meridian 7.1 2G
 584d 3781  HDA X-Purity 7.1 Platinum
 7284 9761  CLARO
 7284 9781  CLARO halo
 7284 9783  eCLARO
 7284 9787  CLARO II
13f7  Wildfire Communications
13f8  Ad Lib Multimedia Inc
13f9  NTT Advanced Technology Corp.
13fa  Pentland Systems Ltd
13fb  Aydin Corp
13fc  Computer Peripherals International
13fd  Micro Science Inc
13fe  Advantech Co. Ltd
 1240  PCI-1240 4-channel stepper motor controller card
 1600  PCI-16xx series PCI multiport serial board (function 0)
# This board has two PCI functions, appears as two PCI devices
 1601 0002  PCI-1601 2-port unisolated RS-422/485
# This board has two PCI functions, appears as two PCI devices
 1602 0002  PCI-1602 2-port isolated RS-422/485
 1612 0004  PCI-1612 4-port RS-232/422/485
 1603  PCI-1603 2-port isolated RS-232/current loop
 1604  PCI-1604 2-port RS-232
 1680
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PCI-1680 Rev.A1 2-port CAN-bus with isolation protection
16ff PCI-16xx series PCI multiport serial board (function 1: RX/TX steering CPLD)
1601 0000 PCI-1601 2-port unisolated RS-422/485 PCI communications card
1602 0000 PCI-1602 2-port isolated RS-422/485
1612 0000 PCI-1612 4-port RS-232/422/485
1711 PCI-1711 16-channel data acquisition card 12-bit, 100kS/s
1713 PCI-1713 32-channel isolated analog input card
1733 PCI-1733 32-channel isolated digital input card
1734 PCI-1734 32-channel isolated digital output card
1752 PCI-1752 64-channel Isolated Digital Output Card
1754 PCI-1754 64-channel Isolated Digital Input Card
1756 PCI-1756 64-ch Isolated Digital I/O PCI Card
a004 PCI-1612 4-port RS-232/422/485
FPGA bridge to two SJA1000
c302 MIOe-3680 2-Port CAN-Bus MIOe Module with Isolation Protection
13ff Silicon Spice Inc
1400 Artx Inc
1401 9432 TX
1401 CR-Systems A/S
1402 Meilhaus Electronic GmbH
0630 ME-630
0940 ME-94
0950 ME-95
0960
ME-96
1000 ME-1000
100a ME-1000
100b ME-1000
1400 ME-1400
140a ME-1400A
140b ME-1400B
140c ME-1400C
140d ME-1400D
140e ME-1400E
14ea ME-1400EA
14eb ME-1400EB
1604 ME-1600/4U
1608 ME-1600/8U
160c ME-1600/12U
160f ME-1600/16U
168f ME-1600/16U8I
4610 ME-4610
4650 ME-4650
4660 ME-4660
4661 ME-4660I
4662 ME-4660
4663 ME-4660I
4670 ME-4670

4671 ME-4670I
4672 ME-4670S
4673 ME-4670IS
4680 ME-4680
4681 ME-4680I
4682 ME-4680S
4683 ME-4680IS
6004 ME-6000/4
6008 ME-6000/8
600f ME-6000/16
6014 ME-6000I/4
6018 ME-6000I/8
601f ME-6000I/16
6034 ME-6000ISLE/4
6038 ME-6000ISLE/8
603f ME-6000ISLE/16
6044 ME-6000/4/DIO
6048 ME-6000/8/DIO
604f ME-6000/16/DIO
6054 ME-6000I/4/DIO
6058 ME-6000I/8/DIO
605f ME-6000I/16/DIO
6074 ME-6000ISLE/4/DIO
6078 ME-6000ISLE/8/DIO
607f ME-6000ISLE/16/DIO
6104 ME-6100/4
6108 ME-6100/8
610f ME-6100/16
6114 ME-6100I/4
6118 ME-6100I/8
611f ME-6100I/16
6134 ME-6100ISLE/4
6138
ME-6100ISLE/8
613f ME-6100ISLE/16
6144 ME-6100/4/DIO
6148 ME-6100/8/DIO
614f ME-6100/16/DIO
6154 ME-6100I/4/DIO
6158 ME-6100I/8/DIO
615f ME-6100I/16/DIO
6174 ME-6100ISLE/4/DIO
6178 ME-6100ISLE/8/DIO
617f ME-6100ISLE/16/DIO
6259 ME-6200I/9/DIO
6359 ME-6300I/9/DIO
810a ME-8100A
810b ME-8100B

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 820a  ME-8200A
 820b  ME-8200B
1403  Ascor Inc
1404  Fundamental Software Inc
1405  Excalibur Systems Inc
1406  Oce' Printing Systems GmbH
1407  Lava Computer mfg Inc
 0100  Lava Dual Serial
 0101  Lava Quatro A
 0102  Lava Quatro B
 0110  Lava DSerial-PCI Port A
 0111  Lava DSerial-PCI Port B
 0120  Quattro-PCI A
 0121  Quattro-PCI B
 0180  Lava Octo A
 0181  Lava Octo B
 0200  Lava Port Plus
 0201  Lava Quad A
 0202  Lava Quad B
 0220  Lava Quattro PCI Ports A/B
 0221  Lava Quattro PCI Ports C/D
 0400  Lava 8255-PIO-PCI
 0500  Lava Single Serial
 0520  Lava RS422-SS-PCI
 0600  Lava Port 650
 8000  Lava Parallel
 8001  Dual parallel port controller A
 8002  Lava
 Dual Parallel port A
 8003  Lava Dual Parallel port B
 8800  BOCA Research IOPPAR
1408  Aloka Co. Ltd
1409  Timedia Technology Co Ltd
 7168  PCI2S550 (Dual 16550 UART)
  1409 0002  SER4036A3V (2x RS232 port)
  1409 4027  SER4027A (1x RS232 port)
  1409 4037  SER4037A(L) [SUNIX SUN1889] (2x RS232 port)
# Single DC-37 connector
  1409 4056  SER4056A (4x RS232)
  1409 5027  SER4027D
  1409 5037  SER4037D (2x RS232 port)
# Single DC-62 connector
  1409 5066  SER4066R (8x RS232)
# 4x 8p8c connectors
  1409 6056  SER4056D (4x RS232 port)
 7268  SUN1888 (Dual IEEE1284 parallel port)
  1409 0103  PAR4008A
  1409 0104  PAR4018A
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140a DSP Research Inc
Formerly RAMiX, GE Fanuc, GE Intelligent Platforms
140b Abaco Systems, Inc.
140c Elmic Systems Inc
140d Matsushita Electric Works Ltd
140e Goepel Electronic GmbH
140f Salient Systems Corp
1410 Midas lab Inc
1411 Ikos Systems Inc
Nee IC Ensemble Inc.
1412 VIA Technologies Inc.
1712 ICE1712 [Envy24] PCI Multi-Channel I/O Controller
1412
1712 Hoontech ST Audio DSP 24
1412 d630 M-Audio Delta 1010
1412 d631 M-Audio Delta DiO
1412 d632 M-Audio Delta 66
1412 d633 M-Audio Delta 44
1412 d634 M-Audio Delta Audiophile 2496
1412 d635 M-Audio Delta TDIF
1412 d637 M-Audio Delta RBUS
1412 d638 M-Audio Delta 410
1412 d63b M-Audio Delta 1010LT
1412 d63c Digigram VX442
1416 1712 Hoontech ST Audio DSP 24 Media 7.1
153b 1115 EWS88 MT
153b 1125 EWS88 MT (Master)
153b 112b EWS88 D
153b 112c EWS88 D (Master)
153b 1130 EWX 24/96
153b 1138 DMX 6fire 24/96
153b 1151 PHASE88
16ce 1040 Edirol DA-2496
1724 VT1720/24 [Envy24PT/HT] PCI Multi-Channel Audio Controller
10b0 0200 Hollywood@Home 7.1
1412 1724 Albatron PX865PE 7.1
1412 3630 M-Audio Revolution 7.1
1412 3631 M-Audio Revolution 5.1
1412 3632 M-Audio Audiophile 192
153b 1145 Aureon 7.1 Space
153b 1147 Aureon 5.1 Sky
153b 1150 PHASE 22
153b 1153 Aureon 7.1 Universe
17ab 1906 PSC 724 [Ultimate Edge]
270f
f641 ZNF3-150
270f f645 ZNF3-250
3130 4154 MAYA 44 MKII

1413 Addonics
1414 Microsoft Corporation
0001 MN-120 (ADMtek Centaur-C based)
0002 MN-130 (ADMtek Centaur-P based)
5353 Hyper-V virtual VGA
5801 XMA Decoder (Xenon)
5802 SATA Controller - CdRom (Xenon)
5803 SATA Controller - Disk (Xenon)
5804 OHCI Controller 0 (Xenon)
5805 EHCI Controller 0 (Xenon)
5806 OHCI Controller 1 (Xenon)
5807 EHCI Controller 1 (Xenon)
580a Fast Ethernet Adapter (Xenon)
580b Secure Flash Controller (Xenon)
580d System Management Controller (Xenon)
5811 Xenos GPU (Xenon)
1415 Oxford Semiconductor Ltd
8401 OX9162 Mode 1 (8-bit bus)
8403 OX9162 Mode 0 (parallel port)
9500 OX16PCI954 (Quad 16950 UART) function 0 (Disabled)
9501 OX16PCI954 (Quad 16950 UART) function 0 (Uart)
12c4 0201 Titan/cPCI (2 port)
12c4 0202 Titan/cPCI (4 port)
12c4 0203 Titan/cPCI (8 port)
12c4 0210 Titan/104-Plus (8 port, p1-4)
131f 2050 CyberPro (4-port)
Model IO1085,
Part No: JJ-P46012
131f 2051 CyberSerial 4S Plus
15ed 2000 MCCR Serial p0-3 of 8
15ed 2001 MCCR Serial p0-3 of 16
9505 OXuPCI952 (Dual 16C950 UART)
950a EXSYS EX-41092 Dual 16950 Serial adapter
950b OXCB950 Cardbus 16950 UART
9510 OX16PCI954 (Quad 16950 UART) function 1 (Disabled)
12c4 0200 Titan/cPCI (Unused)
9511 OX16PCI954 (Quad 16950 UART) function 1 (8bit bus)
12c4 0211 Titan/104-Plus (8 port, p5-8)
15ed 2000 MCCR Serial p4-7 of 8
15ed 2001 MCCR Serial p4-15 of 16
9512 OX16PCI954 (Quad 16950 UART) function 1 (32bit bus)
9513 OX16PCI954 (Quad 16950 UART) function 1 (parallel port)
9521 OX16PCI952 (Dual 16950 UART)
9523 OX16PCI952 Integrated Parallel Port
c158 OXPCIe952 Dual 16C950 UART
e4bf c504 CP4-SCAT Wireless Technologies Carrier Board
e4bf d551 DU1-MUSTANG Dual-Port RS-485 Interface
c308 EX-44016 16-port serial

1416 Multiwave Innovation pte Ltd
1417 Convergenet Technologies Inc
1418 Kyushu electronics systems Inc
1419 Excel
Switching Corp
141a Apache Micro Peripherals Inc
141b Zoom Telephonics Inc
141d Digitan Systems Inc
141e Fanuc Ltd
141f Visiontech Ltd
1420 Psion Dacom plc
8002 Gold Card NetGlobal 56k+10/100Mb CardBus (Ethernet part)
8003 Gold Card NetGlobal 56k+10/100Mb CardBus (Modem part)
1421 Ads Technologies Inc
1422 Ygrec Systems Co Ltd
1423 Custom Technology Corp.
1424 Videoserver Connections
1425 Chelsio Communications Inc
000b T210 Protocol Engine
000c T204 Protocol Engine
0022 10GbE Ethernet Adapter
0030 T310 10GbE Single Port Adapter
103c 705e PCIe 10GBase-SR [AD386A]
0031 T320 10GbE Dual Port Adapter
0032 T302 1GbE Dual Port Adapter
0033 T304 1GbE Quad Port Adapter
0034 B320 10GbE Dual Port Adapter
0035 S310-CR 10GbE Single Port Adapter
0036 S320-LP-CR 10GbE Dual Port Adapter
0037 N320-G2-CR 10GbE Dual Port Adapter
4001 T420-CR Unified Wire Ethernet Controller
4002 T422-CR Unified Wire Ethernet Controller
4003 T440-CR Unified Wire Ethernet Controller
4004
T420-BCH Unified Wire Ethernet Controller
4005 T440-BCH Unified Wire Ethernet Controller
4006 T440-CH Unified Wire Ethernet Controller
4007 T420-SO Unified Wire Ethernet Controller
4008 T420-CX Unified Wire Ethernet Controller
4009 T420-BT Unified Wire Ethernet Controller
400a T404-BT Unified Wire Ethernet Controller
400b B420-SR Unified Wire Ethernet Controller
400c B404-BT Unified Wire Ethernet Controller
400d T480 Unified Wire Ethernet Controller
400e T440-LP-CR Unified Wire Ethernet Controller
400f T440 [Amsterdam] Unified Wire Ethernet Controller
4080 T480-4080 T480 Unified Wire Ethernet Controller
4081 T440F-4081 T440-FCoE Unified Wire Ethernet Controller

4082 T420-4082 Unified Wire Ethernet Controller
4083 T420X-4083 Unified Wire Ethernet Controller
4084 T440-4084 Unified Wire Ethernet Controller
4085 T420-4085 SFP+ Unified Wire Ethernet Controller
4086 T440-4086 10Gbase-T Unified Wire Ethernet Controller
4087 T440T-4087 Unified
Wire Ethernet Controller
4088 T440-4088 Unified Wire Ethernet Controller
4401 T420-CR Unified Wire Ethernet Controller
4402 T422-CR Unified Wire Ethernet Controller
4403 T440-CR Unified Wire Ethernet Controller
4404 T420-BCH Unified Wire Ethernet Controller
4405 T440-BCH Unified Wire Ethernet Controller
4406 T440-CH Unified Wire Ethernet Controller
4407 T420-SO Unified Wire Ethernet Controller
4408 T420-CX Unified Wire Ethernet Controller
4409 T420-BT Unified Wire Ethernet Controller
440a T404-BT Unified Wire Ethernet Controller
440b B420-SR Unified Wire Ethernet Controller
440c B404-BT Unified Wire Ethernet Controller
440d T480 Unified Wire Ethernet Controller
440e T440-LP-CR Unified Wire Ethernet Controller
440f T440 [Amsterdam] Unified Wire Ethernet Controller
4480 T480-4080 T480 Unified Wire Ethernet Controller
4481 T440F-4081 T440-FCoE Unified Wire Ethernet Controller
4482 T420-4082 Unified Wire Ethernet Controller
4483 T420X-4083 Unified
Wire Ethernet Controller
4484 T440-4084 Unified Wire Ethernet Controller
4485 T420-4085 SFP+ Unified Wire Ethernet Controller
4486 T440-4086 10Gbase-T Unified Wire Ethernet Controller
4487 T440T-4087 Unified Wire Ethernet Controller
4488 T440-4088 Unified Wire Ethernet Controller
4501 T420-CR Unified Wire Storage Controller
4502 T422-CR Unified Wire Storage Controller
4503 T440-CR Unified Wire Storage Controller
4504 T420-BCH Unified Wire Storage Controller
4505 T440-BCH Unified Wire Storage Controller
4506 T440-CH Unified Wire Storage Controller
4507 T420-SO Unified Wire Storage Controller
4508 T420-CX Unified Wire Storage Controller
4509 T420-BT Unified Wire Storage Controller
450a T404-BT Unified Wire Storage Controller
450b B420-SR Unified Wire Storage Controller
450c B404-BT Unified Wire Storage Controller
450d T480 Unified Wire Storage Controller
450e T440-LP-CR Unified Wire Storage Controller
450f T440 [Amsterdam] Unified Wire Storage

Controller
4580 T480-4080 T480 Unified Wire Storage Controller
4581 T440F-4081 T440-FCoE Unified Wire Storage Controller
4582 T420-4082 Unified Wire Storage Controller
4583 T420X-4083 Unified Wire Storage Controller
4584 T440-4084 Unified Wire Storage Controller
4585 T420-4085 SFP+ Unified Wire Storage Controller
4586 T440-4086 10Gbase-T Unified Wire Storage Controller
4587 T440T-4087 Unified Wire Storage Controller
4588 T440-4088 Unified Wire Storage Controller
4601 T420-CR Unified Wire Storage Controller
4602 T422-CR Unified Wire Storage Controller
4603 T440-CR Unified Wire Storage Controller
4604 T420-BCH Unified Wire Storage Controller
4605 T440-BCH Unified Wire Storage Controller
4606 T440-CH Unified Wire Storage Controller
4607 T420-SO Unified Wire Storage Controller
4608 T420-CX Unified Wire Storage Controller
4609 T420-BT Unified Wire Storage Controller
460a T404-BT Unified Wire Storage Controller
460b B420-SR Unified Wire Storage Controller
460c
B404-BT Unified Wire Storage Controller
460d T480 Unified Wire Storage Controller
460e T440-LP-CR Unified Wire Storage Controller
460f T440 [Amsterdam] Unified Wire Storage Controller
4680 T480-4080 T480 Unified Wire Storage Controller
4681 T440F-4081 T440-FCoE Unified Wire Storage Controller
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4683 T420X-4083 Unified Wire Storage Controller
4684 T440-4084 Unified Wire Storage Controller
4685 T420-4085 SFP+ Unified Wire Storage Controller
4686 T440-4086 10Gbase-T Unified Wire Storage Controller
4687 T440T-4087 Unified Wire Storage Controller
4688 T440-4088 Unified Wire Storage Controller
4701 T420-CR Unified Wire Ethernet Controller
4702 T422-CR Unified Wire Ethernet Controller
4703 T440-CR Unified Wire Ethernet Controller
4704 T420-BCH Unified Wire Ethernet Controller
4705 T440-BCH Unified Wire Ethernet Controller
4706 T440-CH Unified Wire Ethernet Controller
4707 T420-SO Unified Wire Ethernet
Controller
4708 T420-CX Unified Wire Ethernet Controller
4709 T420-BT Unified Wire Ethernet Controller
470a T404-BT Unified Wire Ethernet Controller
470b B420-SR Unified Wire Ethernet Controller
470c B404-BT Unified Wire Ethernet Controller

470d T480 Unified Wire Ethernet Controller
470e T440-LP-CR Unified Wire Ethernet Controller
470f T440 [Amsterdam] Unified Wire Ethernet Controller
4780 T480-4080 T480 Unified Wire Ethernet Controller
4781 T440F-4081 T440-FCoE Unified Wire Ethernet Controller
4782 T420-4082 Unified Wire Ethernet Controller
4783 T420X-4083 Unified Wire Ethernet Controller
4784 T440-4084 Unified Wire Ethernet Controller
4785 T420-4085 SFP+ Unified Wire Ethernet Controller
4786 T440-4086 10Gbase-T Unified Wire Ethernet Controller
4787 T440T-4087 Unified Wire Ethernet Controller
4788 T440-4088 Unified Wire Ethernet Controller
4801 T420-CR Unified Wire Ethernet Controller [VF]
4802 T422-CR Unified Wire Ethernet Controller [VF]
4803
T440-CR Unified Wire Ethernet Controller [VF]
4804 T420-BCH Unified Wire Ethernet Controller [VF]
4805 T440-BCH Unified Wire Ethernet Controller [VF]
4806 T440-CH Unified Wire Ethernet Controller [VF]
4807 T420-SO Unified Wire Ethernet Controller [VF]
4808 T420-CX Unified Wire Ethernet Controller [VF]
4809 T420-BT Unified Wire Ethernet Controller [VF]
480a T404-BT Unified Wire Ethernet Controller [VF]
480b B420-SR Unified Wire Ethernet Controller [VF]
480c B404-BT Unified Wire Ethernet Controller [VF]
480d T480 Unified Wire Ethernet Controller [VF]
480e T440-LP-CR Unified Wire Ethernet Controller [VF]
480f T440 [Amsterdam] Unified Wire Ethernet Controller [VF]
4880 T480-4080 T480 Unified Wire Ethernet Controller [VF]
4881 T440F-4081 T440-FCoE Unified Wire Ethernet Controller [VF]
4882 T420-4082 Unified Wire Ethernet Controller [VF]
4883 T420X-4083 Unified Wire Ethernet Controller [VF]
4884 T440-4084 Unified Wire Ethernet Controller [VF]
4885 T420-4085
SFP+ Unified Wire Ethernet Controller [VF]
4886 T440-4086 10Gbase-T Unified Wire Ethernet Controller [VF]
4887 T440T-4087 Unified Wire Ethernet Controller [VF]
4888 T440-4088 Unified Wire Ethernet Controller [VF]
5001 T520-CR Unified Wire Ethernet Controller
193d 1001 510F-B
5002 T522-CR Unified Wire Ethernet Controller
5003 T540-CR Unified Wire Ethernet Controller
5004 T520-BCH Unified Wire Ethernet Controller
5005 T540-BCH Unified Wire Ethernet Controller
5006 T540-CH Unified Wire Ethernet Controller
5007 T520-SO Unified Wire Ethernet Controller
5008 T520-CX Unified Wire Ethernet Controller
5009 T520-BT Unified Wire Ethernet Controller

500a T504-BT Unified Wire Ethernet Controller
500b B520-SR Unified Wire Ethernet Controller
500c B504-BT Unified Wire Ethernet Controller
500d T580-CR Unified Wire Ethernet Controller
500e T540-LP-CR Unified Wire Ethernet Controller
500f T540 [Amsterdam] Unified Wire Ethernet Controller
5010 T580-LP-CR Unified
Wire Ethernet Controller
5011 T520-LL-CR Unified Wire Ethernet Controller
5012 T560-CR Unified Wire Ethernet Controller
5013 T580-CHR Unified Wire Ethernet Controller
5014 T580-SO-CR Unified Wire Ethernet Controller
5015 T502-BT Unified Wire Ethernet Controller
5016 T580-OCP-SO Unified Wire Ethernet Controller
5017 T520-OCP-SO Unified Wire Ethernet Controller
5018 T540-BT Unified Wire Ethernet Controller
5019 T540-LP-BT Unified Wire Ethernet Controller
501a T540-SO-BT Unified Wire Ethernet Controller
501b T540-SO-CR Unified Wire Ethernet Controller
5080 T540-5080 Unified Wire Ethernet Controller
5081 T540-5081 Unified Wire Ethernet Controller
5082 T504-5082 Unified Wire Ethernet Controller
5083 T540-5083 Unified Wire Ethernet Controller
5084 T540-5084 Unified Wire Ethernet Controller
5085 T580-5085 Unified Wire Ethernet Controller
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Unified Wire Ethernet Controller
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5091 T522-5091 Unified Wire Ethernet Controller
5092 T520-5092 Unified Wire Ethernet Controller
5093 T580-5093 Unified Wire Ethernet Controller
5094 T540-5094 Unified Wire Ethernet Controller
5095 T540-5095 Unified Wire Ethernet Controller
5096 T580-5096 Unified Wire Ethernet Controller
5097 T520-5097 Unified Wire Ethernet Controller
5098 T580-5098 Unified Wire Ethernet Controller
5099 T580-5099 Unified Wire Ethernet Controller
509a T520-509A Unified Wire Ethernet Controller
509b T540-509B Unified Wire Ethernet Controller
509c T520-509C Unified Wire Ethernet Controller
509d T540-509D Unified Wire Ethernet Controller
509e T520-509E Unified Wire Ethernet Controller
509f T540-509F Unified Wire Ethernet Controller
50a0 T540-50A0 Unified Wire Ethernet Controller
50a1 T540-50A1 Unified Wire Ethernet Controller

50a2 T580-50A2
Unified Wire Ethernet Controller
50a3 T580-50A3 Unified Wire Ethernet Controller
50a4 T540-50A4 Unified Wire Ethernet Controller
50a5 T522-50A5 Unified Wire Ethernet Controller
50a6 T522-50A6 Unified Wire Ethernet Controller
50a7 T580-50A7 Unified Wire Ethernet Controller
50a8 T580-50A8 Unified Wire Ethernet Controller
50a9 T580-50A9 Unified Wire Ethernet Controller
50aa T580-50AA Unified Wire Ethernet Controller
50ab T520-50AB Unified Wire Ethernet Controller
50ac T540-50AC Unified Wire Ethernet Controller
50ad T520-50AD Unified Wire Ethernet Controller
50ae T540-50AE Unified Wire Ethernet Controller
50af T580-50AF Unified Wire Ethernet Controller
50b0 T520-50B0 Unified Wire Ethernet Controller
5401 T520-CR Unified Wire Ethernet Controller
5402 T522-CR Unified Wire Ethernet Controller
5403 T540-CR Unified Wire Ethernet Controller
5404 T520-BCH Unified Wire Ethernet Controller
5405 T540-BCH Unified Wire Ethernet Controller
5406 T540-CH Unified Wire
Ethernet Controller
5407 T520-SO Unified Wire Ethernet Controller
5408 T520-CX Unified Wire Ethernet Controller
5409 T520-BT Unified Wire Ethernet Controller
540a T504-BT Unified Wire Ethernet Controller
540b B520-SR Unified Wire Ethernet Controller
540c B504-BT Unified Wire Ethernet Controller
540d T580-CR Unified Wire Ethernet Controller
540e T540-LP-CR Unified Wire Ethernet Controller
540f T540 [Amsterdam] Unified Wire Ethernet Controller
5410 T580-LP-CR Unified Wire Ethernet Controller
5411 T520-LL-CR Unified Wire Ethernet Controller
5412 T560-CR Unified Wire Ethernet Controller
5413 T580-CHR Unified Wire Ethernet Controller
5414 T580-SO-CR Unified Wire Ethernet Controller
5415 T502-BT Unified Wire Ethernet Controller
5416 T580-OCP-SO Unified Wire Ethernet Controller
5417 T520-OCP-SO Unified Wire Ethernet Controller
5418 T540-BT Unified Wire Ethernet Controller
5419 T540-LP-BT Unified Wire Ethernet Controller
541a T540-SO-BT Unified Wire Ethernet
Controller
541b T540-SO-CR Unified Wire Ethernet Controller
5480 T540-5080 Unified Wire Ethernet Controller
5481 T540-5081 Unified Wire Ethernet Controller
5482 T504-5082 Unified Wire Ethernet Controller

5483 T540-5083 Unified Wire Ethernet Controller
5484 T540-5084 Unified Wire Ethernet Controller
5485 T580-5085 Unified Wire Ethernet Controller
5486 T580-5086 Unified Wire Ethernet Controller
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5489 T520-5089 Unified Wire Ethernet Controller
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5493 T580-5093 Unified Wire Ethernet Controller
5494 T540-5094 Unified Wire Ethernet Controller
5495 T540-5095 Unified Wire Ethernet Controller
5496 T580-5096 Unified Wire Ethernet Controller
5497 T520-5097 Unified Wire Ethernet Controller
5498 T580-5098 Unified Wire
Ethernet Controller
5499 T580-5099 Unified Wire Ethernet Controller
549a T520-509A Unified Wire Ethernet Controller
549b T540-509B Unified Wire Ethernet Controller
549c T520-509C Unified Wire Ethernet Controller
549d T540-509D Unified Wire Ethernet Controller
549e T520-509E Unified Wire Ethernet Controller
549f T540-509F Unified Wire Ethernet Controller
54a0 T540-50A0 Unified Wire Ethernet Controller
54a1 T540-50A1 Unified Wire Ethernet Controller
54a2 T580-50A2 Unified Wire Ethernet Controller
54a3 T580-50A3 Unified Wire Ethernet Controller
54a4 T540-50A4 Unified Wire Ethernet Controller
54a5 T522-50A5 Unified Wire Ethernet Controller
54a6 T522-50A6 Unified Wire Ethernet Controller
54a7 T580-50A7 Unified Wire Ethernet Controller
54a8 T580-50A8 Unified Wire Ethernet Controller
54a9 T580-50A9 Unified Wire Ethernet Controller
54aa T580-50AA Unified Wire Ethernet Controller
54ab T520-50AB Unified Wire Ethernet Controller
54ac T540-50AC Unified Wire
Ethernet Controller
54ad T520-50AD Unified Wire Ethernet Controller
54ae T540-50AE Unified Wire Ethernet Controller
54af T580-50AF Unified Wire Ethernet Controller
54b0 T520-50B0 Unified Wire Ethernet Controller
5501 T520-CR Unified Wire Storage Controller
5502 T522-CR Unified Wire Storage Controller
5503 T540-CR Unified Wire Storage Controller
5504 T520-BCH Unified Wire Storage Controller
5505 T540-BCH Unified Wire Storage Controller
5506 T540-CH Unified Wire Storage Controller

5507 T520-SO Unified Wire Storage Controller
5508 T520-CX Unified Wire Storage Controller
5509 T520-BT Unified Wire Storage Controller
550a T504-BT Unified Wire Storage Controller
550b B520-SR Unified Wire Storage Controller
550c B504-BT Unified Wire Storage Controller
550d T580-CR Unified Wire Storage Controller
550e T540-LP-CR Unified Wire Storage Controller
550f T540 [Amsterdam] Unified Wire Storage Controller
5510 T580-LP-CR Unified Wire Storage Controller
5511 T520-LL-CR
Unified Wire Storage Controller
5512 T560-CR Unified Wire Storage Controller
5513 T580-CHR Unified Wire Storage Controller
5514 T580-SO-CR Unified Wire Storage Controller
5515 T502-BT Unified Wire Storage Controller
5516 T580-OCP-SO Unified Wire Storage Controller
5517 T520-OCP-SO Unified Wire Storage Controller
5518 T540-BT Unified Wire Storage Controller
5519 T540-LP-BT Unified Wire Storage Controller
551a T540-SO-BT Unified Wire Storage Controller
551b T540-SO-CR Unified Wire Storage Controller
5580 T540-5080 Unified Wire Storage Controller
5581 T540-5081 Unified Wire Storage Controller
5582 T504-5082 Unified Wire Storage Controller
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5584 T540-5084 Unified Wire Storage Controller
5585 T580-5085 Unified Wire Storage Controller
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5588 T570-5088 Unified Wire Storage Controller
5589 T520-5089 Unified Wire
Storage Controller
5590 T540-5090 Unified Wire Storage Controller
5591 T522-5091 Unified Wire Storage Controller
5592 T520-5092 Unified Wire Storage Controller
5593 T580-5093 Unified Wire Storage Controller
5594 T540-5094 Unified Wire Storage Controller
5595 T540-5095 Unified Wire Storage Controller
5596 T580-5096 Unified Wire Storage Controller
5597 T520-5097 Unified Wire Storage Controller
5598 T580-5098 Unified Wire Storage Controller
5599 T580-5099 Unified Wire Storage Controller
559a T520-509A Unified Wire Storage Controller
559b T540-509B Unified Wire Storage Controller
559c T520-509C Unified Wire Storage Controller
559d T540-509D Unified Wire Storage Controller
559e T520-509E Unified Wire Storage Controller

559f T540-509F Unified Wire Storage Controller
55a0 T540-50A0 Unified Wire Storage Controller
55a1 T540-50A1 Unified Wire Storage Controller
55a2 T580-50A2 Unified Wire Storage Controller
55a3 T580-50A3 Unified Wire Storage Controller
55a4
T540-50A4 Unified Wire Storage Controller
55a5 T522-50A5 Unified Wire Storage Controller
55a6 T522-50A6 Unified Wire Storage Controller
55a7 T580-50A7 Unified Wire Storage Controller
55a8 T580-50A8 Unified Wire Storage Controller
55a9 T580-50A9 Unified Wire Storage Controller
55aa T580-50AA Unified Wire Storage Controller
55ab T520-50AB Unified Wire Storage Controller
55ac T540-50AC Unified Wire Storage Controller
55ad T520-50AD Unified Wire Storage Controller
55ae T540-50AE Unified Wire Storage Controller
55af T580-50AF Unified Wire Storage Controller
55b0 T520-50B0 Unified Wire Storage Controller
5601 T520-CR Unified Wire Storage Controller
5602 T522-CR Unified Wire Storage Controller
5603 T540-CR Unified Wire Storage Controller
5604 T520-BCH Unified Wire Storage Controller
5605 T540-BCH Unified Wire Storage Controller
5606 T540-CH Unified Wire Storage Controller
5607 T520-SO Unified Wire Storage Controller
5608 T520-CX Unified Wire Storage
Controller
5609 T520-BT Unified Wire Storage Controller
560a T504-BT Unified Wire Storage Controller
560b B520-SR Unified Wire Storage Controller
560c B504-BT Unified Wire Storage Controller
560d T580-CR Unified Wire Storage Controller
560e T540-LP-CR Unified Wire Storage Controller
560f T540 [Amsterdam] Unified Wire Storage Controller
5610 T580-LP-CR Unified Wire Storage Controller
5611 T520-LL-CR Unified Wire Storage Controller
5612 T560-CR Unified Wire Storage Controller
5613 T580-CHR Unified Wire Storage Controller
5614 T580-SO-CR Unified Wire Storage Controller
5615 T502-BT Unified Wire Storage Controller
5616 T580-OCP-SO Unified Wire Storage Controller
5617 T520-OCP-SO Unified Wire Storage Controller
5618 T540-BT Unified Wire Storage Controller
5619 T540-LP-BT Unified Wire Storage Controller
561a T540-SO-BT Unified Wire Storage Controller
561b T540-SO-CR Unified Wire Storage Controller
5680 T540-5080 Unified Wire Storage Controller

5681
T540-5081 Unified Wire Storage Controller
5682 T504-5082 Unified Wire Storage Controller
5683 T540-5083 Unified Wire Storage Controller
5684 T540-5084 Unified Wire Storage Controller
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5686 T580-5086 Unified Wire Storage Controller
5687 T580-5087 Unified Wire Storage Controller
5688 T570-5088 Unified Wire Storage Controller
5689 T520-5089 Unified Wire Storage Controller
5690 T540-5090 Unified Wire Storage Controller
5691 T522-5091 Unified Wire Storage Controller
5692 T520-5092 Unified Wire Storage Controller
5693 T580-5093 Unified Wire Storage Controller
5694 T540-5094 Unified Wire Storage Controller
5695 T540-5095 Unified Wire Storage Controller
5696 T580-5096 Unified Wire Storage Controller
5697 T520-5097 Unified Wire Storage Controller
5698 T580-5098 Unified Wire Storage Controller
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569a T520-509A Unified Wire Storage Controller
569b T540-509B Unified
Wire Storage Controller
569c T520-509C Unified Wire Storage Controller
569d T540-509D Unified Wire Storage Controller
569e T520-509E Unified Wire Storage Controller
569f T540-509F Unified Wire Storage Controller
56a0 T540-50A0 Unified Wire Storage Controller
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56a2 T580-50A2 Unified Wire Storage Controller
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56a4 T540-50A4 Unified Wire Storage Controller
56a5 T522-50A5 Unified Wire Storage Controller
56a6 T522-50A6 Unified Wire Storage Controller
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56a8 T580-50A8 Unified Wire Storage Controller
56a9 T580-50A9 Unified Wire Storage Controller
56aa T580-50AA Unified Wire Storage Controller
56ab T520-50AB Unified Wire Storage Controller
56ac T540-50AC Unified Wire Storage Controller
56ad T520-50AD Unified Wire Storage Controller
56ae T540-50AE Unified Wire Storage Controller
56af T580-50AF Unified Wire Storage Controller
56b0
T520-50B0 Unified Wire Storage Controller
5701 T520-CR Unified Wire Ethernet Controller
5702 T522-CR Unified Wire Ethernet Controller
5703 T540-CR Unified Wire Ethernet Controller

5704 T520-BCH Unified Wire Ethernet Controller
5705 T540-BCH Unified Wire Ethernet Controller
5706 T540-CH Unified Wire Ethernet Controller
5707 T520-SO Unified Wire Ethernet Controller
5708 T520-CX Unified Wire Ethernet Controller
5709 T520-BT Unified Wire Ethernet Controller
570a T504-BT Unified Wire Ethernet Controller
570b B520-SR Unified Wire Ethernet Controller
570c B504-BT Unified Wire Ethernet Controller
570d T580-CR Unified Wire Ethernet Controller
570e T540-LP-CR Unified Wire Ethernet Controller
570f T540 [Amsterdam] Unified Wire Ethernet Controller
5710 T580-LP-CR Unified Wire Ethernet Controller
5711 T520-LL-CR Unified Wire Ethernet Controller
5712 T560-CR Unified Wire Ethernet Controller
5713 T580-CR Unified Wire Ethernet Controller
5714 T580-SO-CR
Unified Wire Ethernet Controller
5715 T502-BT Unified Wire Ethernet Controller
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5782 T504-5082 Unified Wire Ethernet Controller
5783 T540-5083 Unified Wire Ethernet Controller
5784 T580-5084 Unified Wire Ethernet Controller
5785 T580-5085 Unified Wire Ethernet Controller
5786 T580-5086 Unified Wire Ethernet Controller
5787 T580-5087 Unified Wire Ethernet Controller
5788 T570-5088 Unified Wire Ethernet Controller
5789 T520-5089 Unified Wire Ethernet Controller
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5792 T520-5092 Unified Wire Ethernet Controller
5793 T580-5093 Unified Wire Ethernet Controller
5794 T540-5094 Unified Wire Ethernet Controller
5795 T540-5095 Unified Wire Ethernet Controller
5796 T580-5096 Unified Wire Ethernet Controller
5797 T520-5097 Unified Wire Ethernet Controller
5801 T520-CR
Unified Wire Ethernet Controller [VF]
5802 T522-CR Unified Wire Ethernet Controller [VF]
5803 T540-CR Unified Wire Ethernet Controller [VF]
5804 T520-BCH Unified Wire Ethernet Controller [VF]
5805 T540-BCH Unified Wire Ethernet Controller [VF]
5806 T540-CH Unified Wire Ethernet Controller [VF]
5807 T520-SO Unified Wire Ethernet Controller [VF]
5808 T520-CX Unified Wire Ethernet Controller [VF]
5809 T520-BT Unified Wire Ethernet Controller [VF]
580a T504-BT Unified Wire Ethernet Controller [VF]

580b B520-SR Unified Wire Ethernet Controller [VF]
580c B504-BT Unified Wire Ethernet Controller [VF]
580d T580-CR Unified Wire Ethernet Controller [VF]
580e T540-LP-CR Unified Wire Ethernet Controller [VF]
580f T540 [Amsterdam] Unified Wire Ethernet Controller [VF]
5810 T580-LP-CR Unified Wire Ethernet Controller [VF]
5811 T520-LL-CR Unified Wire Ethernet Controller [VF]
5812 T560-CR Unified Wire Ethernet Controller [VF]
5813 T580-CHR Unified Wire Ethernet Controller
[VF]
5814 T580-SO-CR Unified Wire Ethernet Controller [VF]
5815 T502-BT Unified Wire Ethernet Controller [VF]
5816 T580-OCP-SO Unified Wire Ethernet Controller [VF]
5817 T520-OCP-SO Unified Wire Ethernet Controller [VF]
5818 T540-BT Unified Wire Ethernet Controller [VF]
5819 T540-LP-BT Unified Wire Ethernet Controller [VF]
581a T540-SO-BT Unified Wire Ethernet Controller [VF]
581b T540-SO-CR Unified Wire Ethernet Controller [VF]
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5889 T520-5089 Unified Wire Ethernet Controller
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5890 T540-5090 Unified Wire Ethernet Controller [VF]
5891 T522-5091 Unified Wire Ethernet Controller [VF]
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589c T520-509C Unified Wire Ethernet Controller [VF]
589d T540-509D Unified Wire Ethernet Controller [VF]
589e T520-509E Unified Wire Ethernet Controller [VF]
589f T540-509F Unified Wire Ethernet Controller [VF]
58a0 T540-50A0 Unified Wire Ethernet Controller [VF]
58a1 T540-50A1 Unified Wire Ethernet Controller [VF]
58a2

T580-50A2 Unified Wire Ethernet Controller [VF]
58a3 T580-50A3 Unified Wire Ethernet Controller [VF]
58a4 T540-50A4 Unified Wire Ethernet Controller [VF]
58a5 T522-50A5 Unified Wire Ethernet Controller [VF]
58a6 T522-50A6 Unified Wire Ethernet Controller [VF]
58a7 T580-50A7 Unified Wire Ethernet Controller [VF]
58a8 T580-50A8 Unified Wire Ethernet Controller [VF]
58a9 T580-50A9 Unified Wire Ethernet Controller [VF]
58aa T580-50AA Unified Wire Ethernet Controller [VF]
58ab T520-50AB Unified Wire Ethernet Controller [VF]
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58ae T540-50AE Unified Wire Ethernet Controller [VF]
58af T580-50AF Unified Wire Ethernet Controller [VF]
58b0 T520-50B0 Unified Wire Ethernet Controller [VF]
6001 T6225-CR Unified Wire Ethernet Controller
6002 T6225-SO-CR Unified Wire Ethernet Controller
6003 T6425-CR Unified Wire Ethernet Controller
6004 T6425-SO-CR Unified Wire
Ethernet Controller
6005 T6225-OCP-SO Unified Wire Ethernet Controller
6006 T62100-OCP-SO Unified Wire Ethernet Controller
6007 T62100-LP-CR Unified Wire Ethernet Controller
6008 T62100-SO-CR Unified Wire Ethernet Controller
6009 T6210-BT Unified Wire Ethernet Controller
600d T62100-CR Unified Wire Ethernet Controller
6011 T6225-LL-CR Unified Wire Ethernet Controller
6014 T61100-OCP-SO Unified Wire Ethernet Controller
6015 T6201-BT Unified Wire Ethernet Controller
6080 T6225-6080 Unified Wire Ethernet Controller
6081 T62100-6081 Unified Wire Ethernet Controller
6082 T6225-6082 Unified Wire Ethernet Controller
6083 T62100-6083 Unified Wire Ethernet Controller
6084 T64100-6084 Unified Wire Ethernet Controller
6085 T6240-6085 Unified Wire Ethernet Controller
6086 T6225-6086 Unified Wire Ethernet Controller
6087 T6225-6087 Unified Wire Ethernet Controller
6088 T62100-6088 Unified Wire Ethernet Controller
6089 T62100-6089 Unified Wire Ethernet Controller
608a
T62100-608a Unified Wire Ethernet Controller
6401 T6225-CR Unified Wire Ethernet Controller
6402 T6225-SO-CR Unified Wire Ethernet Controller
6403 T6425-CR Unified Wire Ethernet Controller
6404 T6425-SO-CR Unified Wire Ethernet Controller
6405 T6225-OCP-SO Unified Wire Ethernet Controller
6406 T62100-OCP-SO Unified Wire Ethernet Controller
6407 T62100-LP-CR Unified Wire Ethernet Controller

6408 T62100-SO-CR Unified Wire Ethernet Controller
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6411 T6225-LL-CR Unified Wire Ethernet Controller
6414 T61100-OCP-SO Unified Wire Ethernet Controller
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6480 T6225-6080 Unified Wire Ethernet Controller
6481 T62100-6081 Unified Wire Ethernet Controller
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Unified Wire Ethernet Controller
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6501 T6225-CR Unified Wire Storage Controller
6502 T6225-SO-CR Unified Wire Storage Controller
6503 T6425-CR Unified Wire Storage Controller
6504 T6425-SO-CR Unified Wire Storage Controller
6505 T6225-OCP-SO Unified Wire Storage Controller
6506 T62100-OCP-SO Unified Wire Storage Controller
6507 T62100-LP-CR Unified Wire Storage Controller
6508 T62100-SO-CR Unified Wire Storage Controller
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6587 T6225-6087 Unified Wire Storage Controller
6588 T62100-6088 Unified Wire Storage Controller
6589 T62100-6089 Unified Wire Storage Controller
658a T62100-608a Unified Wire Storage Controller
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6602 T6225-SO-CR Unified Wire Storage Controller
6603 T6425-CR Unified Wire Storage Controller
6604 T6425-SO-CR Unified Wire Storage Controller
6605 T6225-OCP-SO Unified Wire Storage Controller

6606 T62100-OCP-SO Unified Wire Storage Controller
6607 T62100-LP-CR Unified Wire Storage Controller
6608 T62100-SO-CR Unified Wire Storage Controller
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660d T62100-CR Unified Wire Storage Controller
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T6225-LL-CR Unified Wire Storage Controller
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6684 T64100-6084 Unified Wire Storage Controller
6685 T6240-6085 Unified Wire Storage Controller
6686 T6225-6086 Unified Wire Storage Controller
6687 T6225-6087 Unified Wire Storage Controller
6688 T62100-6088 Unified Wire Storage Controller
6689 T62100-6089 Unified Wire Storage Controller
668a T62100-608a Unified Wire Storage Controller
6801 T6225-CR Unified Wire Ethernet Controller [VF]
6802 T6225-SO-CR Unified Wire Ethernet Controller [VF]
6803 T6425-CR Unified Wire Ethernet Controller [VF]
6804 T6425-SO-CR Unified Wire Ethernet Controller [VF]
6805 T6225-OCP-SO Unified Wire Ethernet Controller [VF]
6806
T62100-OCP-SO Unified Wire Ethernet Controller [VF]
6807 T62100-LP-CR Unified Wire Ethernet Controller [VF]
6808 T62100-SO-CR Unified Wire Ethernet Controller [VF]
6809 T6210-BT Unified Wire Ethernet Controller [VF]
680d T62100-CR Unified Wire Ethernet Controller [VF]
6811 T6225-LL-CR Unified Wire Ethernet Controller [VF]
6814 T61100-OCP-SO Unified Wire Ethernet Controller [VF]
6815 T6201-BT Unified Wire Ethernet Controller [VF]
6880 T6225-6080 Unified Wire Ethernet Controller [VF]
6881 T62100-6081 Unified Wire Ethernet Controller [VF]
6882 T6225-6082 Unified Wire Ethernet Controller [VF]
6883 T62100-6083 Unified Wire Ethernet Controller [VF]
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6886 T6225-6086 Unified Wire Ethernet Controller [VF]
6887 T6225-6087 Unified Wire Ethernet Controller [VF]
6888 T62100-6088 Unified Wire Ethernet Controller [VF]
6889 T62100-6089 Unified Wire Ethernet
Controller [VF]
688a T62100-608a Unified Wire Ethernet Controller [VF]
a000 PE10K Unified Wire Ethernet Controller
1426 Storage Technology Corp.

1427 Better On-Line Solutions
1428 Edec Co Ltd
1429 Unex Technology Corp.
142a Kingmax Technology Inc
142b Radiolan
142c Minton Optic Industry Co Ltd
142d Pix stream Inc
142e Vitec Multimedia
4020 VM2-2 [Video Maker 2] MPEG1/2 Encoder
4337 VM2-2-C7 [Video Maker 2 rev. C7] MPEG1/2 Encoder
142f Radicom Research Inc
1430 ITT Aerospace/Communications Division
1431 Gilat Satellite Networks
1432 Edimax Computer Co.
9130 RTL81xx Fast Ethernet
1433 Eltec Elektronik GmbH
Nee Real Time Devices US Inc.
1435 RTD Embedded Technologies, Inc.
4520 PCI4520
6020 SPM6020
6030 SPM6030
6420 SPM186420
6430 SPM176430
6431 SPM176431
7520 DM7520
7540 SDM7540
7820 DM7820
1436 CIS Technology Inc
1437 Nissin Inc Co
1438 Atmel-dream
1439 Outsource Engineering & Mfg. Inc
143a Stargate Solutions Inc
143b Canon Research Center,
America
143c Amlogic Inc
143d Tamarack Microelectronics Inc
143e Jones Futurex Inc
143f Lightwell Co Ltd - Zax Division
1440 ALGOL Corp.
1441 AGIE Ltd
1442 Phoenix Contact GmbH & Co.
1443 Unibrain S.A.
1444 TRW
1445 Logical DO Ltd
1446 Graphin Co Ltd
1447 AIM GmBH
1448 Alesis Studio Electronics
1449 TUT Systems Inc

144a Adlink Technology
6208 PCI-6208V
7250 PCI-7250
7296 PCI-7296
7432 PCI-7432
7433 PCI-7433
7434 PCI-7434
7841 PCI-7841
8133 PCI-8133
8164 PCI-8164
8554 PCI-8554
9111 PCI-9111
9113 PCI-9113
9114 PCI-9114
2-16 MB SRAM, 4x UART, I2C, misc I/O
a001 ADi-BSEC
nee Loronix Information Systems Inc.
144b Verint Systems Inc.
144c Catalina Research Inc
144d Samsung Electronics Co Ltd
1600 Apple PCIe SSD
a800 XP941 PCIe SSD
a802 NVMe SSD Controller SM951/PM951
a804 NVMe SSD Controller SM961/PM961
a808 NVMe SSD Controller SM981/PM981/PM983
1d49 403b Thinksystem U.2 PM983 NVMe SSD
a820 NVMe SSD Controller 171X
1028
1f95 Express Flash NVMe XS1715 SSD 400GB
1028 1f96 Express Flash NVMe XS1715 SSD 800GB
1028 1f97 Express Flash NVMe XS1715 SSD 1600GB
1028 1fa4 Express Flash NVMe SM1715 3.2TB SFF
1028 1fa6 Express Flash NVMe SM1715 3.2TB AIC
1028 1fba Express Flash NVMe SM1715 800GB SFF
1028 1fbb Express Flash NVMe SM1715 1.6TB SFF
1028 1fbc Express Flash NVMe SM1715 1.6TB AIC
a821 NVMe SSD Controller 172X
1028 1fb7 Express Flash NVMe PM1725 3.2TB SFF
1028 1fb8 Express Flash NVMe PM1725 3.2TB AIC
1028 1fb9 Express Flash NVMe PM1725 6.4TB AIC
1028 1fc1 Express Flash NVMe PM1725 800GB SFF
1028 1fc2 Express Flash NVMe PM1725 1.6TB SFF
1028 1fc4 Express Flash NVMe PM1725 1.6TB AIC
a822 NVMe SSD Controller 172Xa/172Xb
1014 0621 PCIe3 1.6TB NVMe Flash Adapter II x8
1014 0622 PCIe3 3.2TB NVMe Flash Adapter II x8
1014 0629 PCIe3 6.4TB NVMe Flash Adapter II x8
1014 064a PCIe3 1.6TB NVMe Flash Adapter III x8

1014 064b PCIe3 3.2TB NVMe Flash Adapter III
x8
1014 064c PCIe3 6.4TB NVMe Flash Adapter III x8
1028 1fd9 Express Flash PM1725a 800GB SFF
1028 1fda Express Flash PM1725a 1.6TB SFF
1028 1fdb Express Flash PM1725a 3.2TB SFF
1028 1fdc Express Flash PM1725a 6.4TB SFF
1028 1fdd Express Flash PM1725a 1.6TB AIC
1028 1fde Express Flash PM1725a 3.2TB AIC
1028 1fdf Express Flash PM1725a 6.4TB AIC
1028 1ff3 Express Flash PM1725b 1.6TB SFF
1028 1ff4 Express Flash PM1725b 3.2TB SFF
1028 1ff5 Express Flash PM1725b 6.4TB SFF
1028 1ff6 Express Flash PM1725b 12.8TB SFF
1028 1ff7 Express Flash PM1725b 1.6TB AIC
1028 1ff8 Express Flash PM1725b 3.2TB AIC
1028 1ff9 Express Flash PM1725b 6.4TB AIC
1028 1ffa Express Flash PM1725b 12.8TB AIC
a824 NVMe SSD Controller PM173X
1028 2040 EMC PowerEdge Express Flash Ent NVMe AGN SED MU U.2 Gen4 1.6TB / AGN MU U.2 Gen4
1.6TB
1028 2041 EMC PowerEdge Express Flash Ent NVMe AGN SED MU U.2 Gen4 3.2TB
1028 2042 EMC PowerEdge Express Flash Ent NVMe AGN SED
MU U.2 Gen4 6.4TB
1028 2043 EMC PowerEdge Express Flash Ent NVMe AGN SED MU U.2 Gen4 12.8TB
1028 2044 EMC PowerEdge Express Flash Ent NVMe AGN SED MU AIC Gen4 1.6TB
1028 2045 EMC PowerEdge Express Flash Ent NVMe AGN SED MU AIC Gen4 3.2TB
1028 2046 EMC PowerEdge Express Flash Ent NVMe AGN SED MU AIC Gen4 6.4TB
1028 2070 EMC PowerEdge Express Flash Ent NVMe AGN SED RI U.2 Gen4 1.92TB
1028 2071 EMC PowerEdge Express Flash Ent NVMe AGN SED RI U.2 Gen4 3.84TB
1028 2072 EMC PowerEdge Express Flash Ent NVMe AGN SED RI U.2 Gen4 7.68TB
144e OLITEC
144f Askey Computer Corp.
1450 Octave Communications Ind.
1451 SP3D Chip Design GmBH
1453 MYCOM Inc
1454 Altiga Networks
1455 Logic Plus Plus Inc
1456 Advanced Hardware Architectures
1457 Nuera Communications Inc
1458 Gigabyte Technology Co., Ltd
1459 DOOIN Electronics
145a Escalate Networks Inc
145b PRAIM SRL
145c Cryptek
145d Gallant Computer Inc
145e Aashima Technology B.V.
145f Baldor Electric Company

0001 NextMove
PCI
1460 DYNARC INC
1461 Avermedia Technologies Inc
a3ce M179
a3cf M179
a836 M115 DVB-T, PAL/SECAM/NTSC Tuner
e836 M115S Hybrid Analog/DVB PAL/SECAM/NTSC Tuner
f436 AVerTV Hybrid+FM
1462 Micro-Star International Co., Ltd. [MSI]
aaf0 Radeon RX 580 Gaming X 8G
1463 Fast Corporation
1464 Interactive Circuits & Systems Ltd
1465 GN NETTEST Telecom DIV.
1466 Designpro Inc.
1467 DIGICOM SPA
1468 AMBIT Microsystem Corp.
1469 Cleveland Motion Controls
formerly IFR.
146a Aeroflex
1.5 GHz to 3.0 GHz x 1Hz
3010 3010 RF Synthesizer
3a11 3011A PXI RF Synthesizer
146b Parascan Technologies Ltd
146c Ruby Tech Corp.
1430 FE-1430TX Fast Ethernet PCI Adapter
146d Tachyon, INC.
146e Williams Electronics Games, Inc.
146f Multi Dimensional Consulting Inc
1470 Bay Networks
1471 Integrated Telecom Express Inc
1472 DAIKIN Industries, Ltd
1473 ZAPEX Technologies Inc
1474 Doug Carson & Associates
1475 PICAZO Communications
1476 MORTARA Instrument Inc
1477 Net
Insight
1478 DIATREND Corporation
1479 TORAY Industries Inc
147a FORMOSA Industrial Computing
147b ABIT Computer Corp.
1084 IP35 [Dark Raider]
147c AWARE, Inc.
147d Interworks Computer Products
147e Matsushita Graphic Communication Systems, Inc.
147f NIHON UNISYS, Ltd.
1480 SCII Telecom

1481 BIOPAC Systems Inc
1482 ISYTEC - Integrierte Systemtechnik GmBH
0001 PCI-16 Host Interface for ITC-16
1483 LABWAY Corporation
1484 Logic Corporation
1485 ERMA - Electronic GmBH
1486 L3 Communications Telemetry & Instrumentation
1487 MARQUETTE Medical Systems
1489 KYE Systems Corporation
148a OPTO
148b INNOMEDIALOGIC Inc.
148c Tul Corporation / PowerColor
148d DIGICOM Systems, Inc.
1003 HCF 56k Data/Fax Modem
148e OSI Plus Corporation
148f Plant Equipment, Inc.
1490 Stone Microsystems PTY Ltd.
1491 ZEAL Corporation
1492 Time Logic Corporation
1493 MAKER Communications
1494 WINTOP Technology, Inc.
1495 TOKAI Communications Industry Co. Ltd
1496 JOYTECH Computer Co.,
Ltd.
1497 SMA Regelsysteme GmBH
1497 SMA Technologie AG
1498 TEWS Technologies GmbH
0330 TPMC816 2 Channel CAN bus controller.
035d TPMC861 4-Channel Isolated Serial Interface RS422/RS485
0385 TPMC901 Extended CAN bus with 2/4/6 CAN controller
21cc TCP460 CompactPCI 16 Channel Serial Interface RS232/RS422
21cd TCP461 CompactPCI 8 Channel Serial Interface RS232/RS422
3064 TPCI100 (2 Slot IndustryPack PCI Carrier)
30c8 TPCI200 4 Slot IndustryPack PCI Carrier
70c8 TPCE200 4 Slot IndustryPack PCIe Carrier
9177 TXMC375 8 channel RS232/RS422/RS485 programmable serial interface
1499 EMTEC CO., Ltd
149a ANDOR Technology Ltd
149b SEIKO Instruments Inc
149c OVISLINK Corp.
149d NEWTEK Inc
0001 Video Toaster for PC
149e Mapletree Networks Inc.
149f LECTRON Co Ltd
14a0 SOFTING GmBH
14a1 Systembase Co Ltd
14a2 Millennium Engineering Inc
14a3 Maverick Networks

14a4 Lite-On Technology Corporation
22f1 M8Pe Series NVMe SSD
Wrong vendor ID used
4318 Broadcom
BCM4318 [AirForce One 54g] 802.11g WLAN Controller
14a5 XIONICS Document Technologies Inc
14a6 INOVA Computers GmBH & Co KG
14a7 MYTHOS Systems Inc
14a8 FEATRON Technologies Corporation
14a9 HIVERTEC Inc
14aa Advanced MOS Technology Inc
14ab Mentor Graphics Corp.
14ac Novaweb Technologies Inc
14ad Time Space Radio AB
14ae CTI, Inc
14af Guillemot Corporation
7102 3D Prophet II MX
14b0 BST Communication Technology Ltd
14b1 Nextcom K.K.
14b2 ENNOVATE Networks Inc
14b3 XPEED Inc
0000 DSL NIC
14b4 PHILIPS Business Electronics B.V.
14b5 Creamware GmBH
0200 Scope
0300 Pulsar
0400 PulsarSRB
0600 Pulsar2
0800 DSP-Board
0900 DSP-Board
0a00 DSP-Board
0b00 DSP-Board
14b6 Quantum Data Corp.
14b7 PROXIM Inc
0001 Symphony 4110
14b8 Techsoft Technology Co Ltd
14b9 Cisco Aironet Wireless Communications
0001 PC4800
0340 PC4800
0350 350 series 802.11b Wireless LAN Adapter
4500 PC4500
4800 Cisco Aironet 340 802.11b Wireless LAN Adapter/Aironet PC4800
a504
Cisco Aironet Wireless 802.11b
a505 Cisco Aironet CB20a 802.11a Wireless LAN Adapter
a506 Cisco Aironet Mini PCI b/g
14ba INTERNIX Inc.
ARCNET interface card based on SMSC COM20022 chip and manufactured for SMSC Japan

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 0600  ARC-PCI/22
14bb  SEMTECH Corporation
14bc  Globespan Semiconductor Inc.
 d002  Pulsar [PCI ADSL Card]
 d00f  Pulsar [PCI ADSL Card]
14bd  CARDIO Control N.V.
14be  L3 Communications
14bf  SPIDER Communications Inc.
14c0  COMPAL Electronics Inc
 1201  X550 10Gb 2P RJ45 OCP Mezz
# now owned by CSP, Inc.
14c1  MYRICOM Inc.
 0008  Myri-10G Dual-Protocol NIC
  14c1 0008  10G-PCIE-8A
  14c1 0009  10G-PCIE-8A (MSI-X firmware)
  14c1 000a  10G-PCIE-8B
 8043  Myrinet 2000 Scalable Cluster Interconnect
  103c 1240  Myrinet M2L-PCI64/2-3.0 LANai 7.4 (HP OEM)
14c2  DTK Computer
14c3  MEDIATEK Corp.
 7630  MT7630e 802.11bgn Wireless Network Adapter
# MT7612E too?
 7662  MT7662E 802.11ac PCI Express Wireless Network Adapter
14c4  IWASAKI Information Systems Co Ltd
14c5
  Automation Products AB
14c6  Data Race Inc
14c7  Modular Technology Holdings Ltd
14c8  Turbocomm Tech. Inc.
14c9  ODIN Telesystems Inc
14ca  PE Logic Corp.
14cb  Billionton Systems Inc
14cc  NAKAYO Telecommunications Inc
14cd  Universal Global Scientific Industrial Co.,Ltd
 0001  USI-1514-1GbaseT [OCP1]
 0002  USI-4227-SFP [OCP2]
 0003  USI-X557-10GbaseT [OCP3]
14ce  Whistle Communications
14cf  TEK Microsystems Inc.
14d0  Ericsson Axe R & D
14d1  Computer Hi-Tech Co Ltd
14d2  Titan Electronics Inc
 8001  VScom 010L 1 port parallel adaptor
 8002  VScom 020L 2 port parallel adaptor
 8010  VScom 100L 1 port serial adaptor
 8011  VScom 110L 1 port serial and 1 port parallel adaptor
 8020  VScom 200L 1 or 2 port serial adaptor
 8021  VScom 210L 2 port serial and 1 port parallel adaptor
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8028 VScom 200I/200I-SI 2-port serial adapter
8040 VScom 400L 4 port serial adaptor
8043 VScom 430L 4-port serial and 3-port parallel adapter
8048 VScom 400I 4-port serial adapter
8080 VScom 800L
8 port serial adaptor
8088 VScom 800I 8-port serial adapter
a000 VScom 010H 1 port parallel adaptor
a001 VScom 100H 1 port serial adaptor
a003 VScom 400H 4 port serial adaptor
a004 VScom 400HF1 4 port serial adaptor
a005 VScom 200H 2 port serial adaptor
a007 VScom PCI800EH (PCIe) 8-port serial adapter Port 1-4
a008 VScom PCI800EH (PCIe) 8-port serial adapter Port 5-8
a009 VScom PCI400EH (PCIe) 4-port serial adapter
e001 VScom 010HV2 1 port parallel adaptor
e010 VScom 100HV2 1 port serial adaptor
e020 VScom 200HV2 2 port serial adaptor
14d3 CIRTECH (UK) Ltd
0002 DTL-T14000 Rev. 1 [PS2 TOOL CD/DVD Emulator]
0003 DTL-T14000 Rev. 2 [PS2 TOOL CD/DVD Emulator]
0004 DTL-T14000 Rev. 3 [PS2 TOOL CD/DVD Emulator]
14d4 Panacom Technology Corp
14d5 Nitsuko Corporation
14d6 Accusys Inc
6101 ACS-61xxx, PCIe to SAS/SATA RAID HBA
6201 ACS-62xxx, External PCIe to SAS/SATA RAID controller
14d7 Hirakawa Hewtech Corp
14d8 HOPF Elektronik GmBH
Formerly SiPackets,
Inc., formerly API NetWorks, Inc., formerly Alpha Processor, Inc.
14d9 Alliance Semiconductor Corporation
0010 AP1011/SP1011 HyperTransport-PCI Bridge [Sturgeon]
9000 AS90L10204/10208 HyperTransport to PCI-X Bridge
14da National Aerospace Laboratories
14db AFAVLAB Technology Inc
2120 TK9902
2182 AFAVLAB Technology Inc. 8-port serial card
14dc Amplicon Liveline Ltd
0000 PCI230
0001 PCI242
0002 PCI244
0003 PCI247
0004 PCI248
0005 PCI249
0006 PCI260
0007 PCI224
0008 PCI234

0009 PCI236
000a PCI272
000b PCI215
14dd Boulder Design Labs Inc
14de Applied Integration Corporation
14df ASIC Communications Corp
14e1 INVERTEX
14e2 INFOLIBRIA
14e3 AMTELCO
14e4 Broadcom Inc. and subsidiaries
0576 BCM43224 802.11a/b/g/n
0800 Sentry5 Chipcommon I/O Controller
0804 Sentry5 PCI Bridge
0805 Sentry5 MIPS32 CPU
0806 Sentry5 Ethernet Controller
080b Sentry5 Crypto Accelerator
080f Sentry5 DDR/SDR RAM Controller
0811 Sentry5 External Interface Core
0816
BCM3302 Sentry5 MIPS32 CPU
1570 720p FaceTime HD Camera
1600 NetXtreme BCM5752 Gigabit Ethernet PCI Express
1028 01c1 Precision 490
1028 01c2 Latitude D620
103c 3015 PCIe LAN on Motherboard
107b 5048 E4500 Onboard
1259 2705 AT-2711FX
1601 NetXtreme BCM5752M Gigabit Ethernet PCI Express
1604 BCM5745X NetXtreme-E Ethernet Partition
1605 BCM5745X NetXtreme-E RDMA Partition
1606 BCM5745X NetXtreme-E RDMA Virtual Function
1609 BCM5745X NetXtreme-E Ethernet Virtual Function
1612 BCM70012 Video Decoder [Crystal HD]
1614 BCM57454 NetXtreme-E 10Gb/25Gb/40Gb/50Gb/100Gb Ethernet
1615 BCM70015 Video Decoder [Crystal HD]
1639 NetXtreme II BCM5709 Gigabit Ethernet
1028 0235 PowerEdge R710 BCM5709 Gigabit Ethernet
1028 0236 PowerEdge R610 BCM5709 Gigabit Ethernet
1028 0237 PowerEdge T610 BCM5709 Gigabit Ethernet
103c 7055 NC382i Integrated Multi-port PCI Express Gigabit Server Adapter
103c 7059 NC382T PCIe Dual Port Multifunction Gigabit Server
Adapter
10a9 8027 Quad port Gigabit Ethernet Controller
163a NetXtreme II BCM5709S Gigabit Ethernet
1028 027b PowerEdge M805 Broadcom NetXtreme II BCM5709S
1028 029c PowerEdge M710 BCM5709S Gigabit Ethernet
103c 171d NC382m Dual Port 1GbE Multifunction BL-c Adapter
103c 7056 NC382i Integrated Quad Port PCI Express Gigabit Server Adapter

1259 2984 AT-2973SX
163b NetXtreme II BCM5716 Gigabit Ethernet
1028 028c PowerEdge R410 BCM5716 Gigabit Ethernet
1028 028d PowerEdge T410 BCM5716 Gigabit Ethernet
1028 02f1 PowerEdge R510 BCM5716 Gigabit Ethernet
163c NetXtreme II BCM5716S Gigabit Ethernet
163d NetXtreme II BCM57811 10-Gigabit Ethernet
1043 858a PEB-10G/57811-1S
163e NetXtreme II BCM57811 10 Gigabit Ethernet Multi Function
163f NetXtreme II BCM57811 10-Gigabit Ethernet Virtual Function
1641 NetXtreme BCM57787 Gigabit Ethernet PCIe
1642 NetXtreme BCM57764 Gigabit Ethernet PCIe
1643 NetXtreme BCM5725 Gigabit Ethernet PCIe
1644 NetXtreme
BCM5700 Gigabit Ethernet
1014 0277 Broadcom Vigil B5700 1000Base-T
1028 00d1 Broadcom BCM5700
1028 0106 Broadcom BCM5700
1028 0109 Broadcom BCM5700 1000Base-T
1028 010a Broadcom BCM5700 1000BaseTX
10b7 1000 3C996-T 1000Base-T
10b7 1001 3C996B-T 1000Base-T
10b7 1002 3C996C-T 1000Base-T
10b7 1003 3C997-T 1000Base-T Dual Port
10b7 1004 3C996-SX 1000Base-SX
10b7 1005 3C997-SX 1000Base-SX Dual Port
10b7 1008 3C942 Gigabit LOM (31X31)
14e4 0002 NetXtreme 1000Base-SX
14e4 0003 NetXtreme 1000Base-SX
14e4 0004 NetXtreme 1000Base-T
14e4 1028 NetXtreme 1000BaseTX
14e4 1644 BCM5700 1000Base-T
1645 NetXtreme BCM5701 Gigabit Ethernet
0e11 007c NC7770 Gigabit Server Adapter (PCI-X, 10/100/1000-T)
0e11 007d NC6770 Gigabit Server Adapter (PCI-X, 1000-SX)
0e11 0085 NC7780 Gigabit Server Adapter (embedded, WOL)
0e11 0099 NC7780 Gigabit Server Adapter (embedded, WOL)
0e11 009a NC7770 Gigabit Server Adapter (PCI-X, 10/100/1000-T)
0e11 00c1
NC6770 Gigabit Server Adapter (PCI-X, 1000-SX)
1028 0121 Broadcom BCM5701 1000Base-T
103c 128a BCM5701 1000Base-T (HP, OEM 3COM)
103c 128b 1000Base-SX (PCI) [A7073A]
103c 12a4 Core Lan 1000Base-T
103c 12c1 IOX Core Lan 1000Base-T [A7109AX]
103c 1300 Core LAN/SCSI Combo [A6794A]
10a9 8010 IO9/IO10 Gigabit Ethernet (Copper)
10a9 8011 Gigabit Ethernet (Copper)

10a9 8012 Gigabit Ethernet (Fiber)
10b7 1004 3C996-SX 1000Base-SX
10b7 1006 3C996B-T 1000Base-T
10b7 1007 3C1000-T 1000Base-T
10b7 1008 3C940-BR01 1000Base-T
14e4 0001 BCM5701 1000Base-T
14e4 0005 BCM5701 1000Base-T
14e4 0006 BCM5701 1000Base-T
14e4 0007 BCM5701 1000Base-SX
14e4 0008 BCM5701 1000Base-T
14e4 1645 NetXtreme BCM5701 Gigabit Ethernet
14e4 8008 BCM5701 1000Base-T
1646 NetXtreme BCM5702 Gigabit Ethernet
0e11 00bb NC7760 1000BaseTX
1028 0126 Broadcom BCM5702 1000BaseTX
14e4 8009 BCM5702 1000BaseTX
1647 NetXtreme BCM5703 Gigabit Ethernet
0e11 0099
NC7780 1000BaseTX
0e11 009a NC7770 1000BaseTX
10a9 8010 IO9 Gigabit Ethernet (Copper)
14e4 0009 BCM5703 1000BaseTX
14e4 000a BCM5703 1000BaseSX
14e4 000b BCM5703 1000BaseTX
14e4 8009 BCM5703 1000BaseTX
14e4 800a BCM5703 1000BaseTX
1648 NetXtreme BCM5704 Gigabit Ethernet
0e11 00cf NC7772 Gigabit Server Adapter (PCI-X, 10,100,1000-T)
0e11 00d0 NC7782 Gigabit Server Adapter (PCI-X, 10,100,1000-T)
0e11 00d1 NC7783 Gigabit Server Adapter (PCI-X, 10,100,1000-T)
1028 014a PowerEdge 1750
1028 0170 PowerEdge 6850 Broadcom NetXtreme BCM5704
103c 310f NC7782 Gigabit Server Adapter (PCI-X, 10,100,1000-T)
10a9 8013 Dual Port Gigabit Ethernet (PCI-X,Copper)
10a9 8018 Dual Port Gigabit Ethernet (A330)
10a9 801a Dual Port Gigabit Ethernet (IA-blade)
10a9 801b Quad Port Gigabit Ethernet (PCI-E,Copper)
10b7 2000 3C998-T Dual Port 10/100/1000 PCI-X
10b7 3000 3C999-T Quad Port 10/100/1000 PCI-X
1166 1648 NetXtreme CIOB-E 1000Base-T
1734 100b
PRIMERGY RX/TX series onboard LAN
1649 NetXtreme BCM5704S_2 Gigabit Ethernet
164a NetXtreme II BCM5706 Gigabit Ethernet
103c 1709 NC371i Integrated PCI-X Multifunction Gigabit Server Adapter
103c 3070 NC380T PCI Express Dual Port Multifunction Gigabit Server Adapter
103c 3101 NC370T MultifuNCtion Gigabit Server Adapter
103c 3106 NC370i Multifunction Gigabit Server Adapter

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164c  NetXtreme II BCM5708 Gigabit Ethernet
 1028 01f0  PowerEdge R900 Broadcom NetXtreme II BCM5708
 1028 0205  PowerEdge 2970 Broadcom NetXtreme II BCM5708
 1028 020b  PowerEdge T605 Broadcom NetXtreme II BCM5708
 1028 0221  PowerEdge R805 Broadcom NetXtreme II BCM5708
 1028 0223  PowerEdge R905 Broadcom NetXtreme II BCM5708
 1028 1f12  PowerEdge R805/R905 Broadcom NetXtreme II BCM5708
 103c 7037  NC373T PCI Express Multifunction Gigabit Server Adapter
 103c 7038  NC373i Integrated Multifunction Gigabit Server Adapter
 103c 7045  NC374m PCI Express Dual Port Multifunction Gigabit Server
Adapter
164d  NetXtreme BCM5702FE Gigabit Ethernet
164e  NetXtreme II BCM57710 10-Gigabit PCIe [Everest]
 103c 171c  NC532m Dual Port 10GbE Multifunction BL-C Adapter
 103c 7058  NC532i Dual Port 10GbE Multifunction BL-C Adapter
164f  NetXtreme II BCM57711 10-Gigabit PCIe
1650  NetXtreme II BCM57711E 10-Gigabit PCIe
 103c 171c  NC532m Dual Port 10GbE Multifunction BL-C Adapter
 103c 7058  NC532i Dual Port 10GbE Multifunction BL-C Adapter
1653  NetXtreme BCM5705 Gigabit Ethernet
 0e11 00e3  NC7761 Gigabit Server Adapter
 1734 1073  Primergy Econel 200 D2020 mainboard
1654  NetXtreme BCM5705_2 Gigabit Ethernet
 0e11 00e3  NC7761 Gigabit Server Adapter
 103c 3100  NC1020 ProLiant Gigabit Server Adapter 32 PCI
 103c 3226  NC150T 4-port Gigabit Combo Switch & Adapter
1655  NetXtreme BCM5717 Gigabit Ethernet PCIe
1656  NetXtreme BCM5718 Gigabit Ethernet PCIe
1657  NetXtreme BCM5719 Gigabit Ethernet PCIe
 1014 0420  FC 5260/5899 4-port 1 GbE Adapter for Power
 103c 169d
 Ethernet 1Gb 4-port 331FLR Adapter
 103c 22be  Ethernet 1Gb 4-port 331i Adapter
 103c 3383  Ethernet 1Gb 4-port 331T Adapter
 14e4 1904  4-port 1Gb Ethernet Adapter
1659  NetXtreme BCM5721 Gigabit Ethernet PCI Express
 1014 02c6  eServer xSeries server mainboard
 1028 01e6  PowerEdge 860
 1028 023c  PowerEdge R200 Broadcom NetXtreme BCM5721
 103c 170b  NC320m PCI Express Dual Port Gigabit Server Adapter
 103c 7031  NC320T PCIe Gigabit Server Adapter
 103c 7032  NC320i PCIe Gigabit Server Adapter
 1734 1061  PRIMERGY RX/TX S2 series onboard LAN
165a  NetXtreme BCM5722 Gigabit Ethernet PCI Express
# Dual NIC server
 1014 0378  System x3350 (Machine type 4192)
 1028 020f  PowerEdge R300 Broadcom NetXtreme 5722
 1028 0210  PowerEdge T300 Broadcom NetXtreme 5722
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1028 0225 PowerEdge T105 Broadcom NetXtreme 5722
103c 7051 NC105i PCIe Gigabit Server Adapter
103c 7052 NC105T PCIe Gigabit Server Adapter
165b NetXtreme BCM5723 Gigabit Ethernet PCIe
103c 705d NC107i Integrated
PCI Express Gigabit Server Adapter
165c NetXtreme BCM5724 Gigabit Ethernet PCIe
165d NetXtreme BCM5705M Gigabit Ethernet
1028 865d Latitude D400
14e4 165d Dell Latitude D600
165e NetXtreme BCM5705M_2 Gigabit Ethernet
103c 088c NC8000 laptop
103c 0890 NC6000 laptop
103c 099c NX6110/NC6120
10cf 1279 LifeBook E8010D
165f NetXtreme BCM5720 2-port Gigabit Ethernet PCIe
1028 04f7 PowerEdge R320 server
1028 08fd PowerEdge R6515/R7515 LOM
1028 08ff PowerEdge Rx5xx LOM Board
1028 0900 PowerEdge C6525 LOM
103c 1786 NC332T Adapter
103c 193d NC332i Adapter
103c 2133 NC332i Adapter
103c 22e8 NC332i Adapter
103c 22eb NC332i Adapter
1662 NetXtreme II BCM57712 10 Gigabit Ethernet
1663 NetXtreme II BCM57712 10 Gigabit Ethernet Multi Function
1665 NetXtreme BCM5717 Gigabit Ethernet PCIe
1668 NetXtreme BCM5714 Gigabit Ethernet
103c 7039 NC324i PCIe Dual Port Gigabit Server Adapter
1669 NetXtreme 5714S Gigabit Ethernet
166a NetXtreme
BCM5780 Gigabit Ethernet
103c 7035 NC325i Integrated Dual port PCIe Express Gigabit Server Adapter
166b NetXtreme BCM5780S Gigabit Ethernet
166e 570x 10/100 Integrated Controller
166f NetXtreme II BCM57712 10 Gigabit Ethernet Virtual Function
1672 NetXtreme BCM5754M Gigabit Ethernet PCI Express
1673 NetXtreme BCM5755M Gigabit Ethernet PCI Express
1674 NetXtreme BCM5756ME Gigabit Ethernet PCI Express
1677 NetXtreme BCM5751 Gigabit Ethernet PCI Express
1028 0176 Dimension XPS Gen 4
1028 0177 Dimension 8400
1028 0179 Optiplex GX280
1028 0182 Latitude D610
1028 0187 Precision M70
1028 01a3 Latitude X1
1028 01a8 Precision 380

1028 01ad OptiPlex GX620
103c 3006 DC7100 SFF(DX878AV)
1462 028c 915P/G Neo2
1734 105d Scenic W620
1678 NetXtreme BCM5715 Gigabit Ethernet
103c 703e NC326i PCIe Dual Port Gigabit Server Adapter
1679 NetXtreme BCM5715S Gigabit Ethernet
103c 1707 NC326m PCIe Dual Port Adapter
103c 170c NC325m PCIe Quad
Port Adapter
103c 703c NC326i PCIe Dual Port Gigabit Server Adapter
167a NetXtreme BCM5754 Gigabit Ethernet PCI Express
1028 01da OptiPlex 745
1028 01de Precision 390
1028 01df PowerEdge SC440
1028 0214 Precision T3400
1028 021e Precision T5400
167b NetXtreme BCM5755 Gigabit Ethernet PCI Express
103c 280a DC5750 Microtower
167d NetXtreme BCM5751M Gigabit Ethernet PCI Express
1014 0577 ThinkPad X41 / Z60t
103c 0934 nx8220
103c 0940 Compaq nw8240 Mobile Workstation
103c 0944 Compaq nc6220 Notebook PC
17aa 2081 ThinkPad R60e
167e NetXtreme BCM5751F Fast Ethernet PCI Express
167f NetLink BCM5787F Fast Ethernet PCI Express
1680 NetXtreme BCM5761e Gigabit Ethernet PCIe
1681 NetXtreme BCM5761 Gigabit Ethernet PCIe
1682 NetXtreme BCM57762 Gigabit Ethernet PCIe
106b 00f6 Thunderbolt to Gigabit Ethernet Adapter
1683 NetXtreme BCM57767 Gigabit Ethernet PCIe
1684 NetXtreme BCM5764M Gigabit Ethernet PCIe
1685 NetXtreme II BCM57500S Gigabit
Ethernet
1686 NetXtreme BCM57766 Gigabit Ethernet PCIe
1687 NetXtreme BCM5762 Gigabit Ethernet PCIe
1688 NetXtreme BCM5761 10/100/1000BASE-T Ethernet
1259 2708 AT-2712 FX
The Broadcom 57800 device has two 1Gig ports and two 10Gig ports. The subsystem information can be used to differentiate.
168a NetXtreme II BCM57800 1/10 Gigabit Ethernet
1028 1f5c BCM57800 10-Gigabit Ethernet
1028 1f5d BCM57800 10-Gigabit Ethernet
1028 1f67 BCM57800 1-Gigabit Ethernet
1028 1f68 BCM57800 1-Gigabit Ethernet
168d NetXtreme II BCM57840 10/20 Gigabit Ethernet
168e NetXtreme II BCM57810 10 Gigabit Ethernet

1014 0492 PCIe2 2-port 10 GbE BaseT RJ45 Adapter (FC EN0W; CCIN 2CC4)
103c 1798 Flex-10 10Gb 2-port 530FLB Adapter [Meru]
103c 17a5 Flex-10 10Gb 2-port 530M Adapter
103c 18d3 Ethernet 10Gb 2-port 530T Adapter
103c 1930 FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter
103c 1931 StoreFabric CN1100R Dual Port Converged Network Adapter
103c 1932 FlexFabric 10Gb 2-port
534FLB Adapter
103c 1933 FlexFabric 10Gb 2-port 534M Adapter
103c 193a FlexFabric 10Gb 2-port 533FLR-T Adapter
103c 3382 Ethernet 10Gb 2-port 530FLR-SFP+ Adapter
103c 339d Ethernet 10Gb 2-port 530SFP+ Adapter
193d 1003 530F-B
193d 1006 530F-L
1690 NetXtreme BCM57760 Gigabit Ethernet PCIe
1691 NetLink BCM57788 Gigabit Ethernet PCIe
1028 04aa XPS 8300
1692 NetLink BCM57780 Gigabit Ethernet PCIe
1025 033d Aspire 7740G
1693 NetLink BCM5787M Gigabit Ethernet PCI Express
1025 0121 Aspire 5920G
103c 30c0 6710b
17aa 20d5 ThinkPad R61
1694 NetLink BCM57790 Gigabit Ethernet PCIe
1696 NetXtreme BCM5782 Gigabit Ethernet
103c 12bc d530 CMT (DG746A)
14e4 000d NetXtreme BCM5782 1000Base-T
1698 NetLink BCM5784M Gigabit Ethernet PCIe
1699 NetLink BCM5785 Gigabit Ethernet
169a NetLink BCM5786 Gigabit Ethernet PCI Express
169b NetLink BCM5787 Gigabit Ethernet PCI Express
169c NetXtreme BCM5788 Gigabit Ethernet
103c 308b MX6125
103c 30a1
NC2400
144d c018 X20
1462 590c KT6 Delta-FIS2R (MS-6590)
169d NetLink BCM5789 Gigabit Ethernet PCI Express
16a0 NetLink BCM5785 Fast Ethernet
16a1 BCM57840 NetXtreme II 10 Gigabit Ethernet
1043 866e PEB-10G/57840-2T 10GBase-T Network Adapter
16a2 BCM57840 NetXtreme II 10/20-Gigabit Ethernet
103c 1916 FlexFabric 20Gb 2-port 630FLB Adapter
103c 1917 FlexFabric 20Gb 2-port 630M Adapter
103c 2231 3820C 10/20Gb Converged Network Adapter
103c 22fa FlexFabric 10Gb 2-port 536FLB Adapter
16a3 NetXtreme BCM57786 Gigabit Ethernet PCIe
16a4 BCM57840 NetXtreme II Ethernet Multi Function

103c 1916 NPAR 20Gb 2-port 630FLB Adapter
103c 1917 NPAR 20Gb 2-port 630M Adapter
103c 2231 3820C 10/20Gb Converged Network Adapter (NPAR 1.5)
103c 22fa FlexFabric 10Gb 2-port 536FLB Adapter (NPAR 1.5)
The Broadcom 57800 device has two 1Gig ports and two 10Gig ports. The subsystem information can be used to differentiate.
16a5 NetXtreme II BCM57800 1/10 Gigabit Ethernet
Multi Function
1028 1f5c NetXtreme II BCM57800 10-Gigabit Ethernet Multi Function
1028 1f5d NetXtreme II BCM57800 10-Gigabit Ethernet Multi Function
1028 1f67 NetXtreme II BCM57800 1-Gigabit Ethernet Multi Function
1028 1f68 NetXtreme II BCM57800 1-Gigabit Ethernet Multi Function
16a6 NetXtreme BCM5702X Gigabit Ethernet
0e11 00bb NC7760 Gigabit Server Adapter (PCI-X, 10/100/1000-T)
1028 0126 BCM5702 1000Base-T
14e4 000c BCM5702 1000Base-T
14e4 8009 BCM5702 1000Base-T
16a7 NetXtreme BCM5703X Gigabit Ethernet
0e11 00ca NC7771 Gigabit Server Adapter (PCI-X, 10,100,1000-T)
0e11 00cb NC7781 Gigabit Server Adapter (PCI-X, 10,100,1000-T)
1014 026f eServer xSeries server mainboard
14e4 0009 NetXtreme BCM5703 1000Base-T
14e4 000a NetXtreme BCM5703 1000Base-SX
14e4 000b NetXtreme BCM5703 1000Base-T
14e4 800a NetXtreme BCM5703 1000Base-T
16a8 NetXtreme BCM5704S Gigabit Ethernet
103c 132b PCI-X 1000Mbps Dual-port Built-in
10a9 8014 Dual
Port Gigabit Ethernet (PCI-X,Fiber)
10a9 801c Quad Port Gigabit Ethernet (PCI-E,Fiber)
10b7 2001 3C998-SX Dual Port 1000-SX PCI-X
The Broadcom 57800 device has two 1Gig ports and two 10Gig ports. The subsystem information can be used to differentiate.
16a9 NetXtreme II BCM57800 1/10 Gigabit Ethernet Virtual Function
1028 1f5c NetXtreme II BCM57800 10-Gigabit Ethernet Virtual Function
1028 1f5d NetXtreme II BCM57800 10-Gigabit Ethernet Virtual Function
1028 1f67 NetXtreme II BCM57800 1-Gigabit Ethernet Virtual Function
1028 1f68 NetXtreme II BCM57800 1-Gigabit Ethernet Virtual Function
16aa NetXtreme II BCM5706S Gigabit Ethernet
103c 3102 NC370F MultifuNCtion Gigabit Server Adapter
103c 310c NC370i Multifunction Gigabit Server Adapter
16ab NetXtreme II BCM57840 10/20 Gigabit Ethernet Multi Function
16ac NetXtreme II BCM5708S Gigabit Ethernet
1014 0304 NetXtreme II BCM5708S Gigabit Ethernet
1028 01bb PowerEdge 1955 Broadcom NetXtreme II BCM5708S
1028
020c PowerEdge M605 Broadcom NetXtreme II BCM5708S
103c 1706 NC373m Multifunction Gigabit Server Adapter

103c 7038 NC373i PCI Express Multifunction Gigabit Server Adapter
103c 703b NC373i Integrated Multifunction Gigabit Server Adapter
103c 703d NC373F PCI Express Multifunction Gigabit Server Adapter
16ad NetXtreme II BCM57840 10/20 Gigabit Ethernet Virtual Function
103c 1916 FlexFabric 20Gb 2-port 630FLB Adapter
103c 1917 FlexFabric 20Gb 2-port 630M Adapter
103c 2231 3820C 10/20Gb Converged Network Adapter (SR-IOV VF)
103c 22fa FlexFabric 10Gb 2-port 536FLB Adapter (SR-IOV VF)
16ae NetXtreme II BCM57810 10 Gigabit Ethernet Multi Function
103c 1798 NPAR 10Gb 2-port 530FLB Adapter
103c 17a5 NPAR 10Gb 2-port 530M Adapter
103c 18d3 NPAR 10Gb 2-port 530T Adapter
103c 1930 NPAR 10Gb 2-port 534FLR-SFP+ Adapter
103c 1931 NPAR CN1100R Dual Port Converged Network Adapter
103c 1932 NPAR 10Gb 2-port 534FLB Adapter
103c 1933 NPAR 10Gb 2-port
534M Adapter
103c 193a NPAR 10Gb 2-port 533FLR-T Adapter
103c 3382 NPAR 10Gb 2-port 530FLR-SFP+ Adapter
103c 339d NPAR 10Gb 2-port 530SFP+ Adapter
16af NetXtreme II BCM57810 10 Gigabit Ethernet Virtual Function
103c 1798 Flex-10 10Gb 2-port 530FLB Adapter
103c 17a5 Flex-10 10Gb 2-port 530M Adapter
103c 18d3 Ethernet 10Gb 2-port 530T Adapter
103c 1930 FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter
103c 1931 StoreFabric CN1100R Dual Port Converged Network Adapter
103c 1932 FlexFabric 10Gb 2-port 534FLB Adapter
103c 1933 FlexFabric 10Gb 2-port 534M Adapter
103c 193a FlexFabric 10Gb 2-port 533FLR-T Adapter
103c 3382 Ethernet 10Gb 2-port 530FLR-SFP+ Adapter
103c 339d Ethernet 10Gb 2-port 530SFP+ Adapter
16b0 NetXtreme BCM57761 Gigabit Ethernet PCIe
16b1 NetLink BCM57781 Gigabit Ethernet PCIe
1849 96b1 Z77 Extreme4 motherboard
16b2 NetLink BCM57791 Gigabit Ethernet PCIe
16b3 NetXtreme BCM57786 Gigabit Ethernet PCIe
16b4 NetXtreme BCM57765
Gigabit Ethernet PCIe
16b5 NetLink BCM57785 Gigabit Ethernet PCIe
16b6 NetLink BCM57795 Gigabit Ethernet PCIe
16b7 NetXtreme BCM57782 Gigabit Ethernet PCIe
16bc BCM57765/57785 SDXC/MMC Card Reader
16be BCM57765/57785 MS Card Reader
16bf BCM57765/57785 xD-Picture Card Reader
16c1 NetXtreme-E RDMA Virtual Function
16c6 NetXtreme BCM5702A3 Gigabit Ethernet
10b7 1100 3C1000B-T 10/100/1000 PCI
14e4 000c BCM5702 1000Base-T

14e4 8009 BCM5702 1000Base-T
16c7 NetXtreme BCM5703 Gigabit Ethernet
0e11 00ca NC7771 Gigabit Server Adapter (PCI-X, 10,100,1000-T)
0e11 00cb NC7781 Gigabit Server Adapter (PCI-X, 10,100,1000-T)
103c 12c3 Combo FC/GigE-SX [A9782A]
103c 12ca Combo FC/GigE-T [A9784A]
103c 1321 Core I/O LAN/SCSI Combo [AB314A]
14e4 0009 NetXtreme BCM5703 1000Base-T
14e4 000a NetXtreme BCM5703 1000Base-SX
16c8 BCM57301 NetXtreme-C 10Gb Ethernet Controller
16c9 BCM57302 NetXtreme-C 10Gb/25Gb Ethernet Controller
16ca BCM57304 NetXtreme-C 10Gb/25Gb/40Gb/50Gb
Ethernet Controller
16cb NetXtreme-C Ethernet Virtual Function
16cc BCM57417 NetXtreme-E Ethernet Partition
16ce BCM57311 NetXtreme-C 10Gb RDMA Ethernet Controller
16cf BCM57312 NetXtreme-C 10Gb/25Gb RDMA Ethernet Controller
16d0 BCM57402 NetXtreme-E 10Gb Ethernet Controller
16d1 BCM57404 NetXtreme-E 10Gb/25Gb Ethernet Controller
16d2 BCM57406 NetXtreme-E 10GBASE-T Ethernet Controller
16d3 NetXtreme-E Ethernet Virtual Function
16d4 BCM57402 NetXtreme-E Ethernet Partition
16d5 BCM57407 NetXtreme-E 10GBase-T Ethernet Controller
16d6 BCM57412 NetXtreme-E 10Gb RDMA Ethernet Controller
14e4 4120 NetXtreme E-Series Advanced Dual-port 10Gb SFP+ Ethernet Network Daughter Card
152d 8b20 BCM57412 NetXtreme-E 10Gb RDMA Ethernet Controller
152d 8b22 BCM57412 NetXtreme-E 25Gb RDMA Ethernet Controller
16d7 BCM57414 NetXtreme-E 10Gb/25Gb RDMA Ethernet Controller
14e4 1202 BCM957412M4122C OCP 1x25G Type1 wRoCE
14e4 1402 BCM957414A4142CC 10Gb/25Gb
Ethernet PCIe
14e4 1404 BCM957414M4142C OCP 2x25G Type1 wRoCE
14e4 4140 NetXtreme E-Series Advanced Dual-port 25Gb SFP28 Network Daughter Card
1590 020e Ethernet 25Gb 2-port 631SFP28 Adapter
1590 0211 Ethernet 25Gb 2-port 631FLR-SFP28 Adapter
16d8 BCM57416 NetXtreme-E Dual-Media 10G RDMA Ethernet Controller
1028 1feb NetXtreme-E 10Gb SFP+ Adapter
14e4 4163 BCM957416M4163C OCP 2x10GBT Type1 wRoCE
1590 020c Ethernet 10Gb 2-port 535T Adapter
1590 0212 Ethernet 10Gb 2-port 535FLR-T Adapter
16d9 BCM57417 NetXtreme-E 10GBASE-T RDMA Ethernet Controller
108e 4866 Dual Port 10GBase-T Ethernet Controller
16dc NetXtreme-E Ethernet Virtual Function
16dd NetLink BCM5781 Gigabit Ethernet PCI Express
16de BCM57412 NetXtreme-E Ethernet Partition
16df BCM57314 NetXtreme-C 10Gb/25Gb/40Gb/50Gb RDMA Ethernet Controller
16e1 NetXtreme-C Ethernet Virtual Function
16e2 BCM57417 NetXtreme-E 10Gb/25Gb RDMA Ethernet Controller

108e 4866 Dual Port 10Gb/25Gb SFP28 Ethernet
Controller
16e3 BCM57416 NetXtreme-E 10Gb RDMA Ethernet Controller
16e5 NetXtreme-C RDMA Virtual Function
16e7 BCM57404 NetXtreme-E Ethernet Partition
16e8 BCM57406 NetXtreme-E Ethernet Partition
16e9 BCM57407 NetXtreme-E 25Gb Ethernet Controller
16ec BCM57414 NetXtreme-E Ethernet Partition
16ed BCM57414 NetXtreme-E RDMA Partition
16ee BCM57416 NetXtreme-E Ethernet Partition
16ef BCM57416 NetXtreme-E RDMA Partition
16f1 BCM57452 NetXtreme-E 10Gb/25Gb/40Gb/50Gb Ethernet
16f3 NetXtreme BCM5727 Gigabit Ethernet PCIe
16f7 NetXtreme BCM5753 Gigabit Ethernet PCI Express
16fd NetXtreme BCM5753M Gigabit Ethernet PCI Express
103c 309f Compaq nx9420 Notebook
103c 30a3 Compaq nw8440
16fe NetXtreme BCM5753F Fast Ethernet PCI Express
170c BCM4401-B0 100Base-TX
1028 0188 Inspiron 6000 laptop
1028 018d Inspiron 700m/710m
1028 0196 Inspiron 5160
1028 01af Inspiron 6400
1028 01cd Inspiron 9400 Laptop
1028 01d7 XPS M1210
1028 01d8 Inspiron E1405
103c
099c NX6110/NC6120
103c 30a2 NX7300 laptop
14e4 170c HP Compaq 6720t Mobile Thin Client
170d NetXtreme BCM5901 100Base-TX
1014 0545 ThinkPad R40e
170e NetXtreme BCM5901 100Base-TX
1712 NetLink BCM5906 Fast Ethernet PCI Express
1713 NetLink BCM5906M Fast Ethernet PCI Express
1028 01f3 Inspiron 1420
1028 0209 XPS M1330
103c 30c0 Compaq 6710b
17aa 3a23 IdeaPad S10e
1750 BCM57508 NetXtreme-E 10Gb/25Gb/40Gb/50Gb/100Gb/200Gb Ethernet
1751 BCM57504 NetXtreme-E 10Gb/25Gb/40Gb/50Gb/100Gb/200Gb Ethernet
1752 BCM57502 NetXtreme-E 10Gb/25Gb/40Gb/50Gb Ethernet
1806 BCM5750X NetXtreme-E Ethernet Virtual Function
1807 BCM5750X NetXtreme-E RDMA Virtual Function
3352 BCM3352
3360 BCM3360
4210 BCM4210 iLine10 HomePNA 2.0
4211 BCM4211 iLine10 HomePNA 2.0 + V.90 56k modem

4212 BCM4212 v.90 56k modem
4220 802-11b/g Wireless PCI controller, packaged as a Linksys WPC54G ver 1.2 PCMCIA card
4222 NetXtreme BCM5753M Gigabit Ethernet PCI Express
4301
 BCM4301 802.11b Wireless LAN Controller
 1028 0407 TrueMobile 1180 Onboard WLAN
 1043 0120 WL-103b Wireless LAN PC Card
 16a5 1602 B-300 802.11b Wireless CardBus Adapter
 1737 4301 WMP11 v2.7 802.11b Wireless-B PCI Adapter
4305 BCM4307 V.90 56k Modem
4306 BCM4306 802.11bg Wireless LAN controller
4307 BCM4306 802.11bg Wireless LAN Controller
4310 BCM4310 Chipcommon I/OController
4311 BCM4311 802.11b/g WLAN
 1028 0007 Wireless 1390 WLAN Mini-Card
 1028 0008 Wireless 1390 WLAN ExpressCard
 103c 1363 BCM4311 802.11b/g Wireless LAN Controller
 103c 1364 BCM4311 802.11b/g Wireless LAN Controller
 103c 1365 BCM4311 802.11b/g Wireless LAN Controller
 103c 1374 BCM4311 802.11b/g Wireless LAN Controller
 103c 1375 BCM4311 802.11b/g Wireless LAN Controller
 103c 1376 BCM4311 802.11b/g Wireless LAN Controller
 103c 1377 BCM4311 802.11b/g Wireless LAN Controller
 103c 137f BCM4322 802.11a/b/g/n Wireless LAN Controller
 103c 1380 BCM4322 802.11a/b/g/n Wireless
LAN Controller
 14e4 4311 BCM94311MCG
4312 BCM4311 802.11a/b/g
 1028 0007 Wireless 1490 Dual Band WLAN Mini-Card
 1028 0008 Wireless 1490 Dual Band WLAN ExpressCard
 103c 135a Broadcom 802.11a/b/g WLAN
 103c 135f Broadcom 802.11a/b/g WLAN
 103c 1360 Broadcom 802.11a/b/g WLAN
 103c 1361 Broadcom 802.11a/b/g WLAN
 103c 1362 Broadcom 802.11a/b/g WLAN
 103c 1370 Broadcom 802.11a/b/g WLAN
 103c 1371 Broadcom 802.11a/b/g WLAN
 103c 1372 Broadcom 802.11a/b/g WLAN
 103c 1373 Broadcom 802.11a/b/g WLAN
 103c 30b5 Presario V3242AU
 106b 0089 AirPort Extreme
 1371 103c Broadcom 802.11 Multiband-netwerkadapter(6715s)
4313 BCM4311 802.11a
4315 BCM4312 802.11b/g LP-PHY
 1028 000b Wireless 1395 WLAN Mini-Card
 1028 000c Wireless 1397 WLAN Mini-Card
 103c 137c BCM4312 802.11b/g Wireless LAN Controller
 103c 137d BCM4312 802.11b/g Wireless LAN Controller

103c 1507 U98Z049.00 Wireless Mini PCIe Card
105b e003 T77H030.00 Wireless Mini PCIe Card
105b
e01b T77H106.00 Wireless Half-size Mini PCIe Card
4318 BCM4318 [AirForce One 54g] 802.11g Wireless LAN Controller
1028 0005 Wireless 1370 WLAN Mini-PCI Card
1028 0006 Wireless 1370 WLAN PC Card
103c 1355 Broadcom 802.11b/g WLAN
103c 1356 Broadcom 802.11b/g WLAN
103c 1357 Broadcom 802.11b/g WLAN
1043 100f WL-138G v2 / WL-138gE / WL-100gE
1043 120f A6U notebook embedded card
1154 0355 Buffalo WLI2-PCI-G54S High Speed Mode Wireless Adapter
1468 0311 Aspire 3022WLMi, 5024WLMi, 5020
1468 0312 TravelMate 2410
14e4 0449 Gateway 7510GX
16ec 0119 U.S.Robotics Wireless MAXg PC Card
1737 0042 WMP54GS v1.1 802.11g Wireless-G PCI Adapter with SpeedBooster
1737 0048 WPC54G v3 802.11g Wireless-G Notebook Adapter
1737 0049 WPC54GS v2 802.11g Wireless-G Notebook Adapter with SpeedBooster
1799 7000 F5D7000 v4000 Wireless G Desktop Card
1799 7001 F5D7001 v2000 Wireless G Plus Desktop Card
1799 7010 F5D7010 v4000 Wireless G Notebook Card
1799 7011
F5D7011 v2000 High-Speed Mode Wireless G Notebook Card
4319 BCM4318 [AirForce 54g] 802.11a/b/g PCI Express Transceiver
1028 0005 Wireless 1470 Dual Band WLAN Mini-PCI Card
1028 0006 Wireless 1470 Dual Band WLAN PC Card
103c 1358 Broadcom 802.11a/b/g WLAN
103c 1359 Broadcom 802.11a/b/g WLAN
103c 135a Broadcom 802.11a/b/g WLAN
4320 BCM4306 802.11b/g Wireless LAN Controller
1028 0001 TrueMobile 1300 WLAN Mini-PCI Card
1028 0002 TrueMobile 1300 WLAN PC Card
1028 0003 Wireless 1350 WLAN Mini-PCI Card
1028 0004 Wireless 1350 WLAN PC Card
103c 12f4 Broadcom 802.11b/g WLAN
103c 12f8 Broadcom 802.11b/g WLAN
103c 12fa Broadcom 802.11b/g WLAN
103c 12fb Broadcom 802.11b/g WLAN
1043 100f WL-100G
1057 7025 WN825G
106b 004e AirPort Extreme
1154 0330 Buffalo WLI2-PCI-G54S High Speed Mode Wireless Desktop Adapter
144f 7050 eMachines M6805 802.11g Built-in Wireless
144f 7051 Sonnet Aria Extreme PCI
1737 0013 WMP54G v1 802.11g PCI Adapter
1737

0014 WMP54G v2 802.11g PCI Adapter
1737 0015 WMP54GS v1.0 802.11g Wireless-G PCI Adapter with SpeedBooster
1737 4320 WPC54G v1 / WPC54GS v1 802.11g Wireless-G Notebook Adapter
1799 7000 F5D7000 v1000 Wireless G Desktop Card
1799 7001 F5D7001 v1000 Wireless G Plus Desktop Card
1799 7010 F5D7010 v1000 Wireless G Notebook Card
1799 7011 F5D7011 v1000 High-Speed Mode Wireless G Notebook Card
185f 1220 TravelMate 290E WLAN Mini-PCI Card
4321 BCM4321 802.11a Wireless Network Controller
4322 BCM4322 802.11bgn Wireless Network Controller
4324 BCM4309 802.11abg Wireless Network Controller
1028 0001 Truemobile 1400
1028 0002 TrueMobile 1400 Dual Band WLAN PC Card
1028 0003 Truemobile 1450 MiniPCI
1028 0004 Wireless 1450 Dual Band WLAN PC Card
103c 12f9 Broadcom 802.11a/b/g WLAN
103c 12fc Broadcom 802.11a/b/g WLAN
4325 BCM4306 802.11bg Wireless Network Controller
1414 0003 Wireless Notebook Adapter MN-720
1414 0004 Wireless PCI Adapter
MN-730
4326 BCM4307 Chipcommon I/O Controller?
4328 BCM4321 802.11a/b/g/n
1028 0009 Wireless 1500 Draft 802.11n WLAN Mini-Card
1028 000a Wireless 1500 Draft 802.11n WLAN Mini-card
103c 1366 BCM4321 802.11a/b/g/n Wireless LAN Controller
103c 1367 BCM4321 802.11a/b/g/n Wireless LAN Controller
103c 1368 BCM4321 802.11a/b/g/n Wireless LAN Controller
103c 1369 BCM4321 802.11a/b/g/n Wireless LAN Controller
106b 0087 AirPort Extreme
106b 0088 AirPort Extreme
106b 008b AirPort Extreme
106b 008c AirPort Extreme
106b 0090 AirPort Extreme
14e4 4328 BCM4328 802.11a/b/g/n
1737 0066 WPC600N v1 802.11a/b/g/n Wireless-N CardBus Adapter
1737 0068 WEC600N v1 802.11a/b/g/n Wireless-N ExpressCard
4329 BCM4321 802.11b/g/n
1385 7b00 WN511B RangeMax NEXT Wireless Notebook Adapter
1385 7d00 WN311B RangeMax Next 270 Mbps Wireless PCI Adapter
1737 0058 WPC300N v1 Wireless-N Notebook Adapter
432a BCM4321 802.11an Wireless Network Controller
432b BCM4322
802.11a/b/g/n Wireless LAN Controller
1028 000d Wireless 1510 Wireless-N WLAN Mini-Card
106b 008d AirPort Extreme
106b 008e AirPort Extreme
432c BCM4322 802.11b/g/n

1799 d311 Dynex DX-NNBX 802.11n WLAN Cardbus Card
432d BCM4322 802.11an Wireless Network Controller
4331 BCM4331 802.11a/b/g/n
106b 00d6 AirPort Extreme
106b 00e4 AirPort Extreme
106b 00ef AirPort Extreme
106b 00f4 AirPort Extreme
106b 00f5 AirPort Extreme
106b 010e AirPort Extreme
106b 010f AirPort Extreme
4333 Serial (EDGE/GPRS modem part of Option GT Combo Edge)
4344 EDGE/GPRS data and 802.11b/g combo cardbus [GC89]
4350 BCM43222 Wireless Network Adapter
4351 BCM43222 802.11abgn Wireless Network Adapter
4353 BCM43224 802.11a/b/g/n
1028 000e Wireless 1520 Half-size Mini PCIe Card
103c 1509 WMIB-275N Half-size Mini PCIe Card
106b 0093 AirPort Extreme
106b 00d1 AirPort Extreme
106b 00e9 AirPort Extreme
14e4 04d8 Pegatron UPWL6024
4357 BCM43225 802.11b/g/n
105b
e021 T77H103.00 Wireless Half-size Mini PCIe Card
4358 BCM43227 802.11b/g/n
4359 BCM43228 802.11a/b/g/n
1028 0011 Wireless 1530 Half-size Mini PCIe Card
103c 182c BCM943228HM4L 802.11a/b/g/n 2x2 Wi-Fi Adapter
4360 BCM4360 802.11ac Wireless Network Adapter
4365 BCM43142 802.11b/g/n
1028 0016 Wireless 1704 802.11n + BT 4.0
43a0 BCM4360 802.11ac Wireless Network Adapter
43a1 BCM4360 802.11ac Wireless Network Adapter
43a2 BCM4360 802.11ac Wireless Network Adapter
43a3 BCM4350 802.11ac Wireless Network Adapter
43a9 BCM43217 802.11b/g/n
43aa BCM43131 802.11b/g/n
43ae BCM43162 802.11ac Wireless Network Adapter
43b1 BCM4352 802.11ac Wireless Network Adapter
43ba BCM43602 802.11ac Wireless LAN SoC
43bb BCM43602 802.11ac Wireless LAN SoC
43bc BCM43602 802.11ac Wireless LAN SoC
43d3 BCM43567 802.11ac Wireless Network Adapter
43d9 BCM43570 802.11ac Wireless Network Adapter
43dc BCM4355 802.11ac Wireless LAN SoC
43df BCM4354 802.11ac Wireless
LAN SoC
43e9 BCM4358 802.11ac Wireless LAN SoC

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43ec  BCM4356 802.11ac Wireless Network Adapter
4401  BCM4401 100Base-T
 1025 0035  TravelMate 660
 1025 0064  Extensa 3000 series laptop
 1028 8127  Dimension 2400
 103c 08b0  tc1100 tablet
 1043 80a8  A7V8X motherboard
4402  BCM4402 Integrated 10/100BaseT
4403  BCM4402 V.90 56k Modem
4410  BCM4413 iLine32 HomePNA 2.0
4411  BCM4413 V.90 56k modem
4412  BCM4412 10/100BaseT
4430  BCM44xx CardBus iLine32 HomePNA 2.0
4432  BCM4432 CardBus 10/100BaseT
4464  BCM4364 802.11ac Wireless Network Adapter
# brcmfmac reports it as BCM4377/4 but macOS drivers call it BCM4377b
4488  BCM4377b Wireless Network Adapter
4610  BCM4610 Sentry5 PCI to SB Bridge
4611  BCM4610 Sentry5 iLine32 HomePNA 1.0
4612  BCM4610 Sentry5 V.90 56k Modem
4613  BCM4610 Sentry5 Ethernet Controller
4614  BCM4610 Sentry5 External Interface
4615  BCM4610 Sentry5 USB Controller
4704  BCM4704 PCI to SB Bridge
4705  BCM4704 Sentry5 802.11b Wireless LAN Controller
4706
 BCM4704 Sentry5 Ethernet Controller
4707  BCM4704 Sentry5 USB Controller
4708  BCM4704 Crypto Accelerator
4710  BCM4710 Sentry5 PCI to SB Bridge
4711  BCM47xx Sentry5 iLine32 HomePNA 2.0
4712  BCM47xx V.92 56k modem
4713  Sentry5 Ethernet Controller
4714  BCM47xx Sentry5 External Interface
4715  BCM47xx Sentry5 USB / Ethernet Controller
4716  BCM47xx Sentry5 USB Host Controller
4717  BCM47xx Sentry5 USB Device Controller
4718  Sentry5 Crypto Accelerator
4719  BCM47xx/53xx RoboSwitch Core
4720  BCM4712 MIPS CPU
4727  BCM4313 802.11bgn Wireless Network Adapter
 1028 0010  Inspiron M5010 / XPS 8300
5365  BCM5365P Sentry5 Host Bridge
5600  BCM5600 StrataSwitch 24+2 Ethernet Switch Controller
5605  BCM5605 StrataSwitch 24+2 Ethernet Switch Controller
5615  BCM5615 StrataSwitch 24+2 Ethernet Switch Controller
5625  BCM5625 StrataSwitch 24+2 Ethernet Switch Controller
5645  BCM5645 StrataSwitch 24+2 Ethernet Switch Controller
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5670 BCM5670 8-Port 10GE Ethernet
Switch Fabric
5680 BCM5680 G-Switch 8 Port Gigabit Ethernet Switch Controller
5690 BCM5690 12-port Multi-Layer Gigabit Ethernet Switch
5691 BCM5691 GE/10GE 8+2 Gigabit Ethernet Switch Controller
5692 BCM5692 12-port Multi-Layer Gigabit Ethernet Switch
5695 BCM5695 12-port + HiGig Multi-Layer Gigabit Ethernet Switch
5698 BCM5698 12-port Multi-Layer Gigabit Ethernet Switch
5820 BCM5820 Crypto Accelerator
5821 BCM5821 Crypto Accelerator
5822 BCM5822 Crypto Accelerator
5823 BCM5823 Crypto Accelerator
5824 BCM5824 Crypto Accelerator
5840 BCM5840 Crypto Accelerator
5841 BCM5841 Crypto Accelerator
5850 BCM5850 Crypto Accelerator
5e87 Valkyrie offload engine
5e88 Viper Offload Engine
8602 BCM7400/BCM7405 Serial ATA Controller
9026 CN99xx [ThunderX2] Integrated USB 3.0 xHCI Host Controller
9027 CN99xx [ThunderX2] Integrated AHCI/SATA 3 Host Controller
a8d8 BCM43224/5 Wireless Network Adapter
aa52 BCM43602 802.11ac Wireless LAN SoC
b302 BCM56302
StrataXGS 24x1GE 2x10GE Switch Controller
b334 BCM56334 StrataXGS 24x1GE 4x10GE Switch Controller
b370 BCM56370 Switch ASIC
b371 BCM56371 Switch ASIC
b372 BCM56372 Switch ASIC
b375 BCM56375 Switch ASIC
b376 BCM56376 Switch ASIC
b377 BCM56377 Switch ASIC
b379 Broadcom BCM56379 Switch ASIC
b470 BCM56470 SWITCH ASIC
b471 BCM56471 SWITCH ASIC
b472 BCM56472 SWITCH ASIC
b800 BCM56800 StrataXGS 10GE Switch Controller
b842 BCM56842 Trident 10GE Switch Controller
Trident2
b850 Broadcom BCM56850 Switch ASIC
b880 BCM56880 Switch ASIC
Tomahawk
b960 Broadcom BCM56960 Switch ASIC
Tomahawk4
b990 BCM56990 Switch ASIC
d802 BCM58802 Stingray 50Gb Ethernet SoC
14e4 8021 Stingray Dual-Port 25Gb Ethernet PCIe SmartNIC w16GB DRAM (Part No BCM958802A8046C)
14e4 8023 PS410T-H04 NetXtreme-S 4x10G 10GBaseT PCIe SmartNIC

14e4 8024 Stingray Dual-Port 25Gb Ethernet PCIe SmartNIC w4GB DRAM (Part No BCM958802A8044C)
14e4 8028 Stingray Dual-Port 25Gb Ethernet PCIe
SmartNIC w8GB DRAM (Part No BCM958802A8048C)
1bb0 0021 HPE SimpliVity Accelerator
d804 BCM58804 Stingray 100Gb Ethernet SoC
14e5 Pixelfusion Ltd
14e6 SHINING Technology Inc
14e7 3CX
14e8 RAYCER Inc
14e9 GARNETS System CO Ltd
14ea Planex Communications, Inc
ab06 FNW-3603-TX CardBus Fast Ethernet
ab07 RTL81xx RealTek Ethernet
ab08 FNW-3602-TX CardBus Fast Ethernet
14eb SEIKO EPSON Corp
nee ACQIRIS
14ec Agilent Technologies
0000 Aciris Digitizer (malformed ID)
14ed DATAKINETICS Ltd
14ee MASPRO KENKOH Corp
14ef CARRY Computer ENG. CO Ltd
14f0 CANON RESEACH CENTRE FRANCE
14f1 Conexant Systems, Inc.
1002 HCF 56k Modem
1003 HCF 56k Modem
1004 HCF 56k Modem
1005 HCF 56k Modem
1006 HCF 56k Modem
1022 HCF 56k Modem
1023 HCF 56k Modem
1024 HCF 56k Modem
1025 HCF 56k Modem
1026 HCF 56k Modem
1032 HCF 56k Modem
1033 HCF 56k Data/Fax Modem
1033 8077 NEC
122d 4027 Dell Zeus - MDP3880-W(B) Data Fax Modem
122d 4030 Dell Mercury - MDP3880-U(B)
Data Fax Modem
122d 4034 Dell Thor - MDP3880-W(U) Data Fax Modem
13e0 020d Dell Copper
13e0 020e Dell Silver
13e0 0261 IBM
13e0 0290 Compaq Goldwing
13e0 02a0 IBM
13e0 02b0 IBM
13e0 02c0 Compaq Scooter
13e0 02d0 IBM

144f 1500 IBM P85-DF (1)
144f 1501 IBM P85-DF (2)
144f 150a IBM P85-DF (3)
144f 150b IBM P85-DF Low Profile (1)
144f 1510 IBM P85-DF Low Profile (2)
1034 HCF 56k Data/Fax/Voice Modem
1035 HCF 56k Data/Fax/Voice/Spkp (w/Handset) Modem
10cf 1098 Fujitsu P85-DFSV
1036 HCF 56k Data/Fax/Voice/Spkp Modem
104d 8067 HCF 56k Modem
122d 4029 MDP3880SP-W
122d 4031 MDP3880SP-U
13e0 0209 Dell Titanium
13e0 020a Dell Graphite
13e0 0260 Gateway Red Owl
13e0 0270 Gateway White Horse
1052 HCF 56k Data/Fax Modem (Worldwide)
1053 HCF 56k Data/Fax Modem (Worldwide)
1054 HCF 56k Data/Fax/Voice Modem (Worldwide)
1055 HCF 56k Data/Fax/Voice/Spkp (w/Handset) Modem (Worldwide)
1056 HCF 56k Data/Fax/Voice/Spkp Modem
(Worldwide)
122d 4035 MDP3900V-W
1057 HCF 56k Data/Fax/Voice/Spkp Modem (Worldwide)
1059 HCF 56k Data/Fax/Voice Modem (Worldwide)
1063 HCF 56k Data/Fax Modem
1064 HCF 56k Data/Fax/Voice Modem
1065 HCF 56k Data/Fax/Voice/Spkp (w/Handset) Modem
1066 HCF 56k Data/Fax/Voice/Spkp Modem
122d 4033 Dell Athena - MDP3900V-U
1085 HCF V90 56k Data/Fax/Voice/Spkp PCI Modem
10b6 CX06834-11 HCF V.92 56k Data/Fax/Voice/Spkp Modem
1433 HCF 56k Data/Fax Modem
1434 HCF 56k Data/Fax/Voice Modem
1435 HCF 56k Data/Fax/Voice/Spkp (w/Handset) Modem
1436 HCF 56k Data/Fax Modem
1453 HCF 56k Data/Fax Modem
13e0 0240 IBM
13e0 0250 IBM
144f 1502 IBM P95-DF (1)
144f 1503 IBM P95-DF (2)
1454 HCF 56k Data/Fax/Voice Modem
1455 HCF 56k Data/Fax/Voice/Spkp (w/Handset) Modem
1456 HCF 56k Data/Fax/Voice/Spkp Modem
122d 4035 Dell Europa - MDP3900V-W
122d 4302 Dell MP3930V-W(C) MiniPCI
1610 ADSL AccessRunner PCI Arbitration Device
1611 AccessRunner PCI ADSL Interface

Device
1620 AccessRunner V2 PCI ADSL Arbitration Device
1621 AccessRunner V2 PCI ADSL Interface Device
1622 AccessRunner V2 PCI ADSL Yukon WAN Adapter
1803 HCF 56k Modem
0e11 0023 623-LAN Grizzly
0e11 0043 623-LAN Yogi
1811 MiniPCI Network Adapter
1815 HCF 56k Modem
0e11 0022 Grizzly
0e11 0042 Yogi
Integrated in CX86111/CX86113 processors
1830 CX861xx Integrated Host Bridge
2003 HSF 56k Data/Fax Modem
2004 HSF 56k Data/Fax/Voice Modem
2005 HSF 56k Data/Fax/Voice/Spkp (w/Handset) Modem
2006 HSF 56k Data/Fax/Voice/Spkp Modem
2013 HSF 56k Data/Fax Modem
0e11 b195 Bear
0e11 b196 Seminole 1
0e11 b1be Seminole 2
1025 8013 Acer
1033 809d NEC
1033 80bc NEC
155d 6793 HP
155d 8850 E Machines
2014 HSF 56k Data/Fax/Voice Modem
2015 HSF 56k Data/Fax/Voice/Spkp (w/Handset) Modem
2016 HSF 56k Data/Fax/Voice/Spkp Modem
2043 HSF 56k Data/Fax Modem (WorldW SmartDAA)
2044 HSF 56k Data/Fax/Voice Modem (WorldW SmartDAA)
2045 HSF
56k Data/Fax/Voice/Spkp (w/Handset) Modem (WorldW SmartDAA)
14f1 2045 Generic SoftK56
2046 HSF 56k Data/Fax/Voice/Spkp Modem (WorldW SmartDAA)
2063 HSF 56k Data/Fax Modem (SmartDAA)
2064 HSF 56k Data/Fax/Voice Modem (SmartDAA)
2065 HSF 56k Data/Fax/Voice/Spkp (w/Handset) Modem (SmartDAA)
2066 HSF 56k Data/Fax/Voice/Spkp Modem (SmartDAA)
2093 HSF 56k Modem
155d 2f07 Legend
2143 HSF 56k Data/Fax/Cell Modem (Mob WorldW SmartDAA)
2144 HSF 56k Data/Fax/Voice/Cell Modem (Mob WorldW SmartDAA)
2145 HSF 56k Data/Fax/Voice/Spkp (w/HS)/Cell Modem (Mob WorldW SmartDAA)
2146 HSF 56k Data/Fax/Voice/Spkp/Cell Modem (Mob WorldW SmartDAA)
2163 HSF 56k Data/Fax/Cell Modem (Mob SmartDAA)
2164 HSF 56k Data/Fax/Voice/Cell Modem (Mob SmartDAA)
2165 HSF 56k Data/Fax/Voice/Spkp (w/HS)/Cell Modem (Mob SmartDAA)

2166 HSF 56k Data/Fax/Voice/Spkp/Cell Modem (Mob SmartDAA)
2343 HSF 56k Data/Fax CardBus Modem (Mob WorldW SmartDAA)
2344 HSF 56k Data/Fax/Voice CardBus Modem (Mob
WorldW SmartDAA)
2345 HSF 56k Data/Fax/Voice/Spkp (w/HS) CardBus Modem (Mob WorldW SmartDAA)
2346 HSF 56k Data/Fax/Voice/Spkp CardBus Modem (Mob WorldW SmartDAA)
2363 HSF 56k Data/Fax CardBus Modem (Mob SmartDAA)
2364 HSF 56k Data/Fax/Voice CardBus Modem (Mob SmartDAA)
2365 HSF 56k Data/Fax/Voice/Spkp (w/HS) CardBus Modem (Mob SmartDAA)
2366 HSF 56k Data/Fax/Voice/Spkp CardBus Modem (Mob SmartDAA)
2443 HSF 56k Data/Fax Modem (Mob WorldW SmartDAA)
 104d 8075 Modem
 104d 8083 Modem
 104d 8097 Modem
2444 HSF 56k Data/Fax/Voice Modem (Mob WorldW SmartDAA)
2445 HSF 56k Data/Fax/Voice/Spkp (w/HS) Modem (Mob WorldW SmartDAA)
2446 HSF 56k Data/Fax/Voice/Spkp Modem (Mob WorldW SmartDAA)
2463 HSF 56k Data/Fax Modem (Mob SmartDAA)
2464 HSF 56k Data/Fax/Voice Modem (Mob SmartDAA)
2465 HSF 56k Data/Fax/Voice/Spkp (w/HS) Modem (Mob SmartDAA)
2466 HSF 56k Data/Fax/Voice/Spkp Modem (Mob SmartDAA)
2702 HSFi modem RD01-D270
 1028 8d88 SmartHSFi V92 56K PCI Modem
2f00
 HSF 56k HSFi Modem
 13e0 8d84 IBM HSFi V.90
 13e0 8d85 Compaq Stinger
 14f1 2004 Dynalink 56PMi
2f02 HSF 56k HSFi Data/Fax
2f11 HSF 56k HSFi Modem
2f20 HSF 56k Data/Fax Modem
 14f1 200c Soft Data Fax Modem with SmartCP
 14f1 200f Dimension 3000
2f30 SoftV92 SpeakerPhone SoftRing Modem with SmartSP
 14f1 2014 Devolo MikroLink 56K Modem PCI
2f50 Conexant SoftK56 Data/Fax Modem
5b7a CX23418 Single-Chip MPEG-2 Encoder with Integrated Analog Video/Broadcast Audio Decoder
 0070 7444 WinTV HVR-1600
 107d 6f34 WinFast DVR3100 H
 5854 3343 GoTView PCI DVD3 Hybrid
8200 CX25850
8234 RS8234 ATM SAR Controller [ServiceSAR Plus]
8800 CX23880/1/2/3 PCI Video and Audio Decoder
 0070 2801 Hauppauge WinTV 28xxx (Roslyn) models
 0070 3400 WinTV 34604
 0070 3401 Hauppauge WinTV 34xxx models
 0070 6902 WinTV HVR-4000-HD
 0070 7801 WinTV HVR-1800 MCE

0070 9001 Nova-T DVB-T
0070 9200 Nova-SE2 DVB-S
0070 9202 Nova-S-Plus DVB-S
0070 9402 WinTV-HVR1100
DVB-T/Hybrid
0070 9600 WinTV 88x Video
0070 9802 WinTV-HVR1100 DVB-T/Hybrid (Low Profile)
1002 00f8 ATI TV Wonder Pro
1002 00f9 ATI TV Wonder
1002 a101 HDTV Wonder
1043 4823 PVR-416
107d 6611 Winfast TV 2000XP Expert
107d 6613 Leadtek Winfast 2000XP Expert
107d 6620 Leadtek Winfast DV2000
107d 663c Leadtek PVR 2000
107d 665f WinFast DTV1000-T
10fc d003 IODATA GV-VCP3/PCI
10fc d035 IODATA GV/BCTV7E
1421 0334 Instant TV DVB-T PCI
1461 000a AVerTV 303 (M126)
1461 000b AverTV Studio 303 (M126)
1461 8011 UltraTV Media Center PCI 550
1462 8606 MSI TV-@nywhere Master
14c7 0107 GDI Black Gold
14f1 0187 Conexant DVB-T reference design
14f1 0342 Digital-Logic MICROSPACE Entertainment Center (MEC)
153b 1166 Cinergy 1400 DVB-T
1540 2580 Provideo PV259
1554 4811 PixelView
1554 4813 Club 3D ZAP1000 MCE Edition
17de 08a1 KWorld/VStream XPert DVB-T with cx22702
17de 08a6 KWorld/VStream XPert DVB-T
17de 08b2 KWorld
DVB-S 100
17de a8a6 digitalnow DNTV Live! DVB-T
1822 0025 digitalnow DNTV Live! DVB-T Pro
185b e000 VideoMate X500
18ac d500 FusionHDTV 5 Gold
18ac d810 FusionHDTV 3 Gold-Q
18ac d820 FusionHDTV 3 Gold-T
18ac db00 FusionHDTV DVB-T1
18ac db11 FusionHDTV DVB-T Plus
18ac db50 FusionHDTV DVB-T Dual Digital
5654 2388 GoTView PCI Hybrid TV Tuner Card
7063 3000 pcHDTV HD3000 HDTV
7063 5500 pcHDTV HD-5500
8801 CX23880/1/2/3 PCI Video and Audio Decoder [Audio Port]
0070 2801 Hauppauge WinTV 28xxx (Roslyn) models

185b e000 VideoMate X500
5654 2388 GoTView PCI Hybrid Audio AVStream Device
7063 5500 pcHDTV HD-5500
8802 CX23880/1/2/3 PCI Video and Audio Decoder [MPEG Port]
0070 2801 Hauppauge WinTV 28xxx (Roslyn) models
0070 6902 WinTV HVR-4000-HD
0070 9002 Nova-T DVB-T Model 909
0070 9402 WinTV-HVR1100 DVB-T/Hybrid
0070 9600 WinTV 88x MPEG Encoder
1043 4823 PVR-416
107d 663c Leadtek PVR 2000
107d 665f WinFast DTV1000-T
14f1
0187 Conexant DVB-T reference design
17de 08a1 XPert DVB-T PCI BDA DVBT 23880 Transport Stream Capture
17de 08a6 KWorld/VStream XPert DVB-T
18ac d500 DViCO FusionHDTV5 Gold
18ac d810 DViCO FusionHDTV3 Gold-Q
18ac d820 DViCO FusionHDTV3 Gold-T
18ac db00 DVICO FusionHDTV DVB-T1
18ac db10 DVICO FusionHDTV DVB-T Plus
5654 2388 GoTView PCI Hybrid TS Capture Device
7063 3000 pcHDTV HD3000 HDTV
7063 5500 pcHDTV HD-5500
8804 CX23880/1/2/3 PCI Video and Audio Decoder [IR Port]
0070 6902 WinTV HVR-4000-HD
0070 9002 Nova-T DVB-T Model 909
0070 9402 WinTV-HVR1100 DVB-T/Hybrid
7063 5500 pcHDTV HD-5500
8811 CX23880/1/2/3 PCI Video and Audio Decoder [Audio Port]
0070 3400 WinTV 34604
0070 3401 Hauppauge WinTV 34xxx models
0070 6902 WinTV HVR-4000-HD
0070 9402 WinTV-HVR1100 DVB-T/Hybrid
0070 9600 WinTV 88x Audio
1462 8606 MSI TV-@nywhere Master
18ac d500 DViCO FusionHDTV5 Gold
18ac d810 DViCO FusionHDTV3 Gold-Q
18ac d820 DViCO
FusionHDTV3 Gold-T
18ac db00 DVICO FusionHDTV DVB-T1
5654 2388 GoTView PCI Hybrid Audio Capture Device
8852 CX23885 PCI Video and Audio Decoder
0070 8010 WinTV HVR-1400 ExpressCard
0070 f038 WinTV HVR-5525
107d 6f22 WinFast PxTV1200
12ab d585 PE988J Hybrid ATSC/QAM PCI-E AVS Video Capture (SoftEncoder)
13c2 3013 TT-budget CT2-4500 CI

1461 c039 AVerTV Hybrid Express (A577)
153b 117e Cinergy T PCIe Dual
18ac db78 FusionHDTV DVB-T Dual Express
4254 0950 S950
4254 0952 S952
4254 0982 T982
4254 9580 T9580
4254 980c T980C
8880 CX23887/8 PCIe Broadcast Audio and Video Decoder with 3D Comb
0070 2259 WinTV HVR-1250
0070 6a18 WinTV-quadHD
0070 c108 WinTV-HVR-4400-HD model 1278
1461 3100 CE310B SD PCIe Video Capture Card
5654 2389 GoTView X5 DVD Hybrid PCI-E
5654 2390 GoTView X5 3D HYBRID PCI-E
14f2 MOBILITY Electronics
0120 EV1000 bridge
0121 EV1000 Parallel port
0122 EV1000 Serial port
0123 EV1000 Keyboard controller
0124
EV1000 Mouse controller
14f3 BroadLogic
2030 2030 DVB-S Satellite Receiver
2035 2035 DVB-S Satellite Receiver
2050 2050 DVB-T Terrestrial (Cable) Receiver
2060 2060 ATSC Terrestrial (Cable) Receiver
14f4 TOKYO Electronic Industry CO Ltd
14f5 SOPAC Ltd
14f6 COYOTE Technologies LLC
14f7 WOLF Technology Inc
14f8 AUDIOCODES Inc
2077 TP-240 dual span E1 VoIP PCI card
14f9 AG COMMUNICATIONS
14fa WANDEL & GOLTERMANN
14fb TRANSAS MARINE (UK) Ltd
14fc Quadrics Ltd
0000 QsNet Elan3 Network Adapter
0001 QsNetII Elan4 Network Adapter
0002 QsNetIII Elan5 Network Adapter
14fd JAPAN Computer Industry Inc
14fe ARCHTEK TELECOM Corp
14ff TWINHEAD INTERNATIONAL Corp
1500 DELTA Electronics, Inc
1360 RTL81xx RealTek Ethernet
1501 BANKSOFT CANADA Ltd
1502 MITSUBISHI ELECTRIC LOGISTICS SUPPORT Co Ltd
1503 KAWASAKI LSI USA Inc

1504 KAISER Electronics
1505 ITA INGENIEURBURO FUR TESTAUFGABEN GmbH
1506 CHAMELEON Systems Inc
Should be HTEC Ltd, but there are no known
HTEC chips and 1507 is already used by mistake by Motorola (see vendor ID 1057).
1507 Motorola ?? / HTEC
0001 MPC105 [Eagle]
0002 MPC106 [Grackle]
0003 MPC8240 [Kahlua]
0100 MC145575 [HFC-PCI]
0431 KTI829c 100VG
4801 Raven
4802 Falcon
4803 Hawk
4806 CPX8216
1508 HONDA CONNECTORS/MHOTRONICS Inc
1509 FIRST INTERNATIONAL Computer Inc
150a FORVUS RESEARCH Inc
150b YAMASHITA Systems Corp
150c KYOPAL CO Ltd
150d WARPSPPED Inc
150e C-PORT Corp
150f INTEC GmbH
1510 BEHAVIOR TECH Computer Corp
1511 CENTILLIUM Technology Corp
1512 ROSUN Technologies Inc
1513 Raychem
1514 TFL LAN Inc
1515 Advent design
1516 MYSON Technology Inc
0800 MTD-8xx 100/10M Ethernet PCI Adapter
0803 SURECOM EP-320X-S 100/10M Ethernet PCI Adapter
1320 10bd SURECOM EP-320X-S 100/10M Ethernet PCI Adapter
0891 MTD-8xx 100/10M Ethernet PCI Adapter
1517 ECHOTEK Corp
old ID, now 1059
1518 Kontron
1519 TELEFON AKTIEBOLAGET LM Ericsson
151a Globetek
1002 PCI-1002
1004 PCI-1004
1008
PCI-1008
151b COMBOX Ltd
151c DIGITAL AUDIO LABS Inc
0003 Prodif T 2496
4000 Prodif 88
151d Fujitsu Computer Products Of America

151e MATRIX Corp
151f TOPIC SEMICONDUCTOR Corp
0000 TP560 Data/Fax/Voice 56k modem
1520 CHAPLET System Inc
1521 BELL Corp
1522 MainPine Ltd
0100 PCI <-> IOBus Bridge
1522 0200 RockForceDUO 2 Port V.92/V.44 Data/Fax/Voice Modem
1522 0300 RockForceQUATRO 4 Port V.92/V.44 Data/Fax/Voice Modem
1522 0400 RockForceDUO+ 2 Port V.92/V.44 Data/Fax/Voice Modem
1522 0500 RockForceQUATRO+ 4 Port V.92/V.44 Data/Fax/Voice Modem
1522 0600 RockForce+ 2 Port V.90 Data/Fax/Voice Modem
1522 0700 RockForce+ 4 Port V.90 Data/Fax/Voice Modem
1522 0800 RockForceOCTO+ 8 Port V.92/V.44 Data/Fax/Voice Modem
1522 0c00 RockForceDUO+ 2 Port V.92/V.44 Data, V.34 Super-G3 Fax, Voice Modem
1522 0d00 RockForceQUATRO+ 4 Port V.92/V.44 Data, V.34 Super-G3 Fax, Voice Modem
1522 1d00 RockForceOCTO+ 8 Port V.92/V.44 Data, V.34 Super-G3 Fax, Voice
Modem
1522 2000 RockForceD1 1 Port V.90 Data Modem
1522 2100 RockForceF1 1 Port V.34 Super-G3 Fax Modem
1522 2200 RockForceD2 2 Port V.90 Data Modem
1522 2300 RockForceF2 2 Port V.34 Super-G3 Fax Modem
1522 2400 RockForceD4 4 Port V.90 Data Modem
1522 2500 RockForceF4 4 Port V.34 Super-G3 Fax Modem
1522 2600 RockForceD8 8 Port V.90 Data Modem
1522 2700 RockForceF8 8 Port V.34 Super-G3 Fax Modem
1522 3000 IQ Express D1 - 1 Port V.92 Data Modem
1522 3100 IQ Express F1 - 1 Port V.34 Super-G3 Fax Modem
1522 3200 IQ Express D2 - 2 Port V.92 Data Modem
1522 3300 IQ Express F2 - 2 Port V.34 Super-G3 Fax Modem
1522 3400 IQ Express D4 - 4 Port V.92 Data Modem
1522 3500 IQ Express F4 - 4 Port V.34 Super-G3 Fax Modem
1522 3c00 IQ Express D8 - 8 Port V.92 Data Modem
1522 3d00 IQ Express F8 - 8 Port V.34 Super-G3 Fax Modem
4000 PCI Express UART
1522 4001 IQ Express 1-port V.34 Super-G3 Fax
1522 4002 IQ Express 2-port V.34 Super-G3 Fax
1522
4004 IQ Express 4-port V.34 Super-G3 Fax
1522 4008 IQ Express 8-port V.34 Super-G3 Fax
1522 4100 IQ Express SideBand
1523 MUSIC Semiconductors
1524 ENE Technology Inc
0510 CB710 Memory Card Reader Controller
103c 006a NX9500
0520 FLASH memory: ENE Technology Inc:
0530 ENE PCI Memory Stick Card Reader Controller
0550 ENE PCI Secure Digital Card Reader Controller

0551 SD/MMC Card Reader Controller
0610 PCI Smart Card Reader Controller
0720 Memory Stick Card Reader Controller
0730 ENE PCI Memory Stick Card Reader Controller
0750 ENE PCI SmartMedia / xD Card Reader Controller
0751 ENE PCI Secure Digital / MMC Card Reader Controller
1211 CB1211 Cardbus Controller
1225 CB1225 Cardbus Controller
1410 CB1410 Cardbus Controller
1025 003c CL50 motherboard
1025 005a TravelMate 290
103c 30d5 530 Laptop
1411 CB-710/2/4 Cardbus Controller
103c 006a NX9500
1412 CB-712/4 Cardbus Controller
1420 CB1420 Cardbus Controller
1421 CB-720/2/4 Cardbus
Controller
1422 CB-722/4 Cardbus Controller
1525 IMPACT Technologies
1526 ISS, Inc
1527 SOLECTRON
1528 ACKSYS
1529 AMERICAN MICROSystems Inc
152a QUICKTURN DESIGN Systems
152b FLYTECH Technology CO Ltd
152c MACRAIGOR Systems LLC
152d QUANTA Computer Inc
152e MELEC Inc
152f PHILIPS - CRYPTO
1530 ACQIS Technology Inc
1531 CHRYON Corp
1532 ECHELON Corp
0020 LonWorks PCLTA-20 PCI LonTalk Adapter
1533 BALTIMORE
1534 ROAD Corp
1535 EVERGREEN Technologies Inc
1536 ACTIS Computer
1537 DATALEX COMMUNCATIONS
1538 ARALION Inc
0303 ARS106S Ultra ATA 133/100/66 Host Controller
1539 ATELIER INFORMATIQUES et ELECTRONIQUE ETUDES S.A.
153a ONO SOKKI
153b TERRATEC Electronic GmbH
1144 Aureon 5.1
Terratec seems to use several IDs for the same card.
1147 Aureon 5.1 Sky
1158 Philips Semiconductors SAA7134 (rev 01) [Terratec Cinergy 600 TV]

153c ANTAL Electronic
153d FILANET Corp
153e TECHWELL Inc
153f MIPS Technologies, Inc.
0001 SOC-it 101 System Controller
1540
PROVIDEO MULTIMEDIA Co Ltd
1541 MACHONE Communications
nee VIVID Technology Inc.
1542 Concurrent Real-Time
9260 RCIM-II Real-Time Clock & Interrupt Module
9271 RCIM-III Real-Time Clock & Interrupt Module (PCIe)
9272 Pulse Width Modulator Card
9277 5 Volt Delta Sigma Converter Card
9278 10 Volt Delta Sigma Converter Card
9287 Analog Output Card
9290 FPGA Card
9300 Universal Exhaust Gas Oxygen Sensor Simulator
9310 Digital Programmable Resistor
9350 Analog Input Card
1543 SILICON Laboratories
3052 Intel 537 [Winmodem]
4c22 Si3036 MC'97 DAA
1544 DCM DATA Systems
1545 VISIONTEK
1546 IOI Technology Corp
1547 MITUTOYO Corp
1548 JET PROPULSION Laboratory
1549 INTERCONNECT Systems Solutions
154a MAX Technologies Inc
154b COMPUTEX Co Ltd
154c VISUAL Technology Inc
154d PAN INTERNATIONAL Industrial Corp
154e SERVOTEST Ltd
154f STRATABEAM Technology
1550 OPEN NETWORK Co Ltd
1551 SMART Electronic DEVELOPMENT GmBH
1552 RACAL AIRTECH Ltd
1553 CHICONY
Electronics Co Ltd
1554 PROLINK Microsystems Corp
1555 GESYTEC GmBH
1556 PLDA
1100 PCI Express Core Reference Design
110f PCI Express Core Reference Design Virtual Function
1110 XpressRich Reference Design
1113 XpressSwitch
be00 PCI Express Bridge

1557 MEDIASTAR Co Ltd
1558 CLEVO/KAPOK Computer
1559 SI LOGIC Ltd
155a INNOMEDIA Inc
155b PROTAC INTERNATIONAL Corp
155c Cemax-Icon Inc
155d Mac System Co Ltd
155e LP Elektronik GmbH
155f Perle Systems Ltd
1560 Terayon Communications Systems
1561 Viewgraphics Inc
1562 Symbol Technologies
1563 A-Trend Technology Co Ltd
1564 Yamakatsu Electronics Industry Co Ltd
1565 Biostar Microtech Int'l Corp
1566 Ardent Technologies Inc
1567 Jungsoft
1568 DDK Electronics Inc
1569 Palit Microsystems Inc.
156a Avtec Systems
156b 2wire Inc
156c Vidac Electronics GmbH
156d Alpha-Top Corp
156e Alfa Inc
156f M-Systems Flash Disk Pioneers Ltd
1570 Lecroy Corp
1571 Contemporary Controls
a001 CCSI PCI20-485 ARCnet
a002 CCSI
PCI20-485D ARCnet
a003 CCSI PCI20-485X ARCnet
a004 CCSI PCI20-CXB ARCnet
a005 CCSI PCI20-CXS ARCnet
a006 CCSI PCI20-FOG-SMA ARCnet
a007 CCSI PCI20-FOG-ST ARCnet
a008 CCSI PCI20-TB5 ARCnet
a009 CCSI PCI20-5-485 5Mbit ARCnet
a00a CCSI PCI20-5-485D 5Mbit ARCnet
a00b CCSI PCI20-5-485X 5Mbit ARCnet
a00c CCSI PCI20-5-FOG-ST 5Mbit ARCnet
a00d CCSI PCI20-5-FOG-SMA 5Mbit ARCnet
a201 CCSI PCI22-485 10Mbit ARCnet
a202 CCSI PCI22-485D 10Mbit ARCnet
a203 CCSI PCI22-485X 10Mbit ARCnet
a204 CCSI PCI22-CHB 10Mbit ARCnet
a205 CCSI PCI22-FOG_ST 10Mbit ARCnet
a206 CCSI PCI22-THB 10Mbit ARCnet
1572 Otis Elevator Company

1573 Lattice - Vantis
1574 Fairchild Semiconductor
1575 Voltaire Advanced Data Security Ltd
1576 Viewcast COM
1578 HITT
4d34 VPMK4 [Video Processor Mk IV]
5615 VPMK3 [Video Processor Mk III]
1579 Dual Technology Corp
157a Japan Elecronics Ind Inc
157b Star Multimedia Corp
157c Eurosoft (UK)
8001 Fix2000 PCI Y2K Compliance Card
157d Gemflex
Networks
157e Transition Networks
157f PX Instruments Technology Ltd
1580 Primex Aerospace Co
1581 SEH Computertechnik GmbH
1582 Cytec Corp
1583 Inet Technologies Inc
1584 Uniwill Computer Corp
1585 Logitron
1586 Lancast Inc
1587 Konica Corp
1588 Solidum Systems Corp
1589 Atlantek Microsystems Pty Ltd
0008 Leutron Vision PicPortExpress CL
0009 Leutron Vision PicPortExpress CL Stereo
158a Digalog Systems Inc
158b Allied Data Technologies
158c Hitachi Semiconductor & Devices Sales Co Ltd
158d Point Multimedia Systems
158e Lara Technology Inc
158f Ditect Coop
formerly 3PAR Inc.
1590 Hewlett Packard Enterprise
0001 Eagle Cluster Manager
0002 Osprey Cluster Manager
0003 Harrier Cluster Manager
a01d FC044X Fibre Channel HBA
1591 ARN
1592 Syba Tech Ltd
0781 Multi-IO Card
0782 Parallel Port Card 2xEPP
0783 Multi-IO Card
0785 Multi-IO Card
0786 Multi-IO Card
0787 Multi-IO Card

0788 Multi-IO Card
078a Multi-IO Card
1593 Bops Inc
1594 Netgame
Ltd
1595 Diva Systems Corp
1596 Folsom Research Inc
1597 Memec Design Services
1598 Granite Microsystems
1599 Delta Electronics Inc
159a General Instrument
159b Faraday Technology Corp
4321 StorLink SL3516 (Gemini) Host Bridge
159c Stratus Computer Systems
159d Ningbo Harrison Electronics Co Ltd
159e A-Max Technology Co Ltd
159f Galea Network Security
15a0 Compumaster SRL
15a1 Geocast Network Systems
15a2 Catalyst Enterprises Inc
0001 TA700 PCI Bus Analyzer/Exerciser
15a3 Italtel
15a4 X-Net OY
15a5 Toyota Macs Inc
15a6 Sunlight Ultrasound Technologies Ltd
15a7 SSE Telecom Inc
15a8 Shanghai Communications Technologies Center
15aa Moreton Bay
15ab Bluesteel Networks Inc
15ac North Atlantic Instruments
6893 3U OpenVPX Multi-function I/O Board [Model 68C3]
15ad VMware
0405 SVGA II Adapter
0710 SVGA Adapter
0720 VMXNET Ethernet Controller
0740 Virtual Machine Communication Interface
0770 USB2 EHCI Controller
0774 USB1.1 UHCI Controller
0778 USB3
xHCI 0.96 Controller
0779 USB3 xHCI 1.0 Controller
0790 PCI bridge
07a0 PCI Express Root Port
07b0 VMXNET3 Ethernet Controller
07c0 PVSCSI SCSI Controller
07e0 SATA AHCI controller
0801 Virtual Machine Interface
15ad 0800 Hypervisor ROM Interface

0820 Paravirtual RDMA controller
1977 HD Audio Controller
15ae Amersham Pharmacia Biotech
15b0 Zoltrix International Ltd
15b1 Source Technology Inc
15b2 Mosaid Technologies Inc
15b3 Mellanox Technologies
0191 MT25408 [ConnectX IB Flash Recovery]
01f6 MT27500 Family [ConnectX-3 Flash Recovery]
01f8 MT27520 Family [ConnectX-3 Pro Flash Recovery]
01ff MT27600 Family [Connect-IB Flash Recovery]
0209 MT27700 Family [ConnectX-4 Flash Recovery]
020b MT27710 Family [ConnectX-4 Lx Flash Recovery]
020d MT28800 Family [ConnectX-5 Flash Recovery]
020f MT28908A0 Family [ConnectX-6 Flash Recovery]
0210 MT28908A0 Family [ConnectX-6 Secure Flash Recovery]
0211 MT416842 Family [BlueField SoC Flash Recovery]
0212
MT2892 Family [ConnectX-6 Dx Flash Recovery]
0213 MT2892 Family [ConnectX-6 Dx Secure Flash Recovery]
0214 MT42822 Family [BlueField-2 SoC Flash Recovery]
0215 MT42822 Family [BlueField-2 Secure Flash Recovery]
0216 MT2894 Family [ConnectX-6 Lx Flash Recovery]
0217 MT2894 Family [ConnectX-6 Lx Secure Flash Recovery]
024e MT53100 [Spectrum-2, Flash recovery mode]
024f MT53100 [Spectrum-2, Secure Flash recovery mode]
0250 Spectrum-3, Flash recovery mode
0251 Spectrum-3, Secure Flash recovery mode
0252 Amos chiplet
0254 Spectrum-4, Flash recovery mode
0255 Spectrum-4, Secure Flash recovery mode
0256 Ofek chiplet
0257 Quantum-2 in Flash Recovery Mode
0262 MT27710 [ConnectX-4 Lx Programmable] EN
0263 MT27710 [ConnectX-4 Lx Programmable Virtual Function] EN
0264 Innova-2 Flex Burn image
0281 NPS-600 Flash Recovery
0538 MT2910 Family [ConnectX-7 Flash Recovery]
0539 MT2910 Family [ConnectX-7 Secure Flash Recovery]
1002 MT25400 Family [ConnectX-2 Virtual
Function]
1003 MT27500 Family [ConnectX-3]
1014 04b5 PCIe3 40GbE RoCE Converged Host Bus Adapter for Power
103c 1777 InfiniBand FDR/EN 10/40Gb Dual Port 544FLR-QSFP Adapter (Rev Cx)
103c 17c9 Infiniband QDR/Ethernet 10Gb 2-port 544i Adapter
103c 18ce InfiniBand QDR/EN 10Gb Dual Port 544M Adapter
103c 18cf InfiniBand FDR/EN 10/40Gb Dual Port 544M Adapter
103c 18d6 InfiniBand FDR/EN 10/40Gb Dual Port 544QSFP Adapter

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	15b3 0025  ConnectX-3 IB QDR Dual Port Mezzanine Card
	15b3 0026  ConnectX-3 IB FDR Dual Port Mezzanine Card
	15b3 0028  ConnectX-3 VPI Dual QSFP+ Port QDR Infiniband 40Gb/s or 10Gb Ethernet
	15b3 0059  ConnectX-3 VPI IB FDR/40 GbE Single Port QSFP+ Mezzanine Card
	15b3 0064  ConnectX-3 EN 10/40 GbE Single Port QSFP+ Adapter (MCX313A-BCBT)
	15b3 0065  ConnectX-3 VPI IB FDR/40 GbE Dual Port QSFP+ Adapter
	15b3 0066  ConnectX-3 IB FDR10 Dual Port Mezzanine Card
	15b3 0067  ConnectX-3 VPI IB FDR/40 GbE Single Port QSFP+ Adapter
	15b3 0071  ConnectX-3
	VPI IB FDR/40 GbE Dual Port QSFP+ Mezzanine Card
	# SVID = 15B3 SSID = 0078
	15b3 0078  ConnectX-3 10 GbE Dual Port KR Mezzanine Card
	15b3 0079  ConnectX-3 40 GbE Dual Port QSFP+ Adapter
	# SVID = 15B3 SSID = 0080
	15b3 0080  ConnectX-3 10 GbE Dual Port SFP+ Adapter
	1004  MT27500/MT27520 Family [ConnectX-3/ConnectX-3 Pro Virtual Function]
	1005  MT27510 Family
	1006  MT27511 Family
	1007  MT27520 Family [ConnectX-3 Pro]
	1014 04eb  2-Port 10GbE NIC and RoCE SR PCIe3
	103c 22f3  InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter
	103c 22f4  InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+FLR-QSFP Adapter
	103c 801f  Ethernet 10G 2-port 546SFP+ Adapter
	117c 0090  FastFrame NQ41
	117c 0091  FastFrame NQ42
	117c 0092  FastFrame NQ11
	117c 0093  FastFrame NQ12
	15b3 0006  Mellanox Technologies ConnectX-3 Pro Stand-up dual-port 40GbE MCX314A-BCCT
	15b3 0078  ConnectX-3 Pro 10 GbE Dual Port KR Mezzanine Card
	15b3 0079  ConnectX-3 Pro 40 GbE Dual Port QSFP+ Adapter
	15b3
	0080  ConnectX-3 Pro 10 GbE Dual Port SFP+ Adapter
	193d 1002  520F-B
	1009  MT27530 Family
	100a  MT27531 Family
	100b  MT27540 Family
	100c  MT27541 Family
	100d  MT27550 Family
	100e  MT27551 Family
	100f  MT27560 Family
	1010  MT27561 Family
	1011  MT27600 [Connect-IB]
	1012  MT27600 Family [Connect-IB Virtual Function]
	1013  MT27700 Family [ConnectX-4]
	1014 04f7  PCIe3 2-port 100 GbE (NIC and RoCE) QSFP28 Adapter for Power
	15b3 0003  Mellanox Technologies ConnectX-4 Stand-up single-port 40GbE MCX413A-BCAT
	15b3 0005  Mellanox Technologies ConnectX-4 Stand-up single-port 40GbE MCX415A-BCAT
	15b3 0006  MCX416A-BCAT, ConnectX-4 EN, 40/56GbE 2P, PCIe3.0 x16
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15b3 0007 ConnectX-4 EN network interface card, 40/56GbE dual-port QSFP28, PCIe3.0 x16, tall bracket
15b3 0008 ConnectX-4 Stand-up dual-port 100GbE MCX416A-CCAT
15b3 0033 ConnectX-4 VPI IB EDR/100 GbE Single Port QSFP28 Adapter
15b3 0034 ConnectX-4 VPI IB EDR/100 GbE Dual Port QSFP28 Adapter
15b3 0050 ConnectX-4
100 GbE Dual Port QSFP28 Adapter
1014 MT27700 Family [ConnectX-4 Virtual Function]
1015 MT27710 Family [ConnectX-4 Lx]
15b3 0001 ConnectX-4 Lx EN network interface card, 25GbE single-port SFP28, PCIe3.0 x8, tall bracket, ROHS R6
15b3 0003 Stand-up ConnectX-4 Lx EN, 25GbE dual-port SFP28, PCIe3.0 x8, MCX4121A-ACAT
15b3 0004 ConnectX-4 Lx Stand-up dual-port 10GbE MCX4121A-XCAT
15b3 0005 Mellanox Technologies ConnectX-4 Lx Stand-up single-port 40GbE MCX4131A-BCAT
15b3 0020 MCX4411A-ACQN, ConnectX-4 Lx EN OCP, 1x25Gb
15b3 0021 MCX4421A-ACQN ConnectX-4 Lx EN OCP,2x25G
15b3 0025 ConnectX-4 Lx 25 GbE Dual Port SFP28 rNDC
193d 100a 620F-B
1016 MT27710 Family [ConnectX-4 Lx Virtual Function]
1017 MT27800 Family [ConnectX-5]
15b3 0006 ConnectX®-5 EN network interface card, 100GbE single-port QSFP28, PCIe3.0 x16, tall bracket; MCX515A-CCAT
15b3 0020 ConnectX®-5 EN network interface card, 10/25GbE dual-port SFP28, PCIe3.0 x8, tall bracket ; MCX512A-ACAT
15b3
0068 ConnectX®-5 EN network interface card for OCP2.0, Type 1, with host management, 25GbE dual-port SFP28, PCIe3.0 x8, no bracket Halogen free ; MCX542B-ACAN
1018 MT27800 Family [ConnectX-5 Virtual Function]
1019 MT28800 Family [ConnectX-5 Ex]
15b3 0008 ConnectX-5 Ex EN network interface card, 100GbE dual-port QSFP28, PCIe4.0 x16, tall bracket; MCX516A-CDAT
101a MT28800 Family [ConnectX-5 Ex Virtual Function]
101b MT28908 Family [ConnectX-6]
101c MT28908 Family [ConnectX-6 Virtual Function]
101d MT2892 Family [ConnectX-6 Dx]
101e ConnectX Family mlx5Gen Virtual Function
101f MT2894 Family [ConnectX-6 Lx]
1020 MT28860
1021 MT2910 Family [ConnectX-7]
1974 MT28800 Family [ConnectX-5 PCIe Bridge]
1975 MT416842 Family [BlueField SoC PCIe Bridge]
1976 MT28908 Family [ConnectX-6 PCIe Bridge]
1977 MT2892 Family [ConnectX-6 Dx PCIe Bridge]
1978 MT42822 Family [BlueField-2 SoC PCIe Bridge]
1979 MT2910 Family [ConnectX-7 PCIe Bridge]
4117 MT27712A0-FDCF-AE
1bd4
0039 SN10XMP2P25
1bd4 003a 25G SFP28 SP EO251FM9 Adapter

1bd4 004d SN10XMP2P25,YZPC-01191-101
5274 MT21108 InfiniBridge
5a44 MT23108 InfiniHost
5a45 MT23108 [Infinihost HCA Flash Recovery]
5a46 MT23108 PCI Bridge
5e8c MT24204 [InfiniHost III Lx HCA]
5e8d MT25204 [InfiniHost III Lx HCA Flash Recovery]
6001 NVMe SNAP Controller
6274 MT25204 [InfiniHost III Lx HCA]
6278 MT25208 InfiniHost III Ex (Tavor compatibility mode)
6279 MT25208 [InfiniHost III Ex HCA Flash Recovery]
6282 MT25208 [InfiniHost III Ex]
6340 MT25408A0-FCC-SI ConnectX, Dual Port 10Gb/s InfiniBand / 10GigE Adapter IC with PCIe 2.0 x8 2.5GT/s Interface
634a MT25408A0-FCC-DI ConnectX, Dual Port 20Gb/s InfiniBand / 10GigE Adapter IC with PCIe 2.0 x8 2.5GT/s Interface
1014 1014 4X InfiniBand DDR Expansion Card (CFFh) for IBM BladeCenter
6368 MT25448 [ConnectX EN 10GigE, PCIe 2.0 2.5GT/s]
6372 MT25458 ConnectX EN 10GBASE-T PCIe 2.5 GT/s
6732 MT25408A0-FCC-GI ConnectX, Dual
Port 20Gb/s InfiniBand / 10GigE Adapter IC with PCIe 2.0 x8 5.0GT/s Interface
673c MT25408A0-FCC-QI ConnectX, Dual Port 40Gb/s InfiniBand / 10GigE Adapter IC with PCIe 2.0 x8 5.0GT/s Interface
1014 0415 PCIe2 2-port 4X InfiniBand QDR Adapter for Power
1014 0487 GX++ 1-port 4X IB QDR Adapter for Power 795
103c 1782 4X QDR InfiniBand Mezzanine HCA for c-Class BladeSystem
15b3 0021 HP InfiniBand 4X QDR CX-2 PCI-e G2 Dual Port HCA
6746 MT26438 [ConnectX VPI PCIe 2.0 5GT/s - IB QDR / 10GigE Virtualization+]
103c 1781 NC543i 1-port 4x QDR IB/Flex-10 10Gb Adapter
103c 3349 NC543i 2-port 4xQDR IB/10Gb Adapter
6750 MT26448 [ConnectX EN 10GigE, PCIe 2.0 5GT/s]
1014 0416 PCIe2 2-Port 10GbE RoCE SFP+ Adapter
1014 0461 PCIe2 2-Port 10GbE RoCE SR Adapter
15b3 0018 HP 10 GbE PCI-e G2 Dual-Port NIC (rev C1)
FC EC26
15b3 6572 IBM Flex System EN4132 2-port 10Gb RoCE Adapter
675a MT26458 ConnectX EN 10GBASE-T PCIe Gen2 5.0 GT/s
6764 MT26468 [ConnectX EN 10GigE,
PCIe 2.0 5GT/s Virtualization+]
103c 3313 NC542m Dual Port Flex-10 10GbE BLc Adapter
676e MT26478 [ConnectX EN 40GigE, PCIe 2.0 5GT/s]
6778 MT26488 [ConnectX VPI PCIe 2.0 5GT/s - IB DDR / 10GigE Virtualization+]
7101 NPS-400 configuration and management interface
7102 NPS-400 network interface PF
7103 NPS-400 network interface VF
7121 NPS-600 configuration and management interface
7122 NPS-600 network interface PF
7123 NPS-600 network interface VF

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 8200  Innova-2 Flex Shell Logic
 a2d0  MT416842 BlueField SoC Crypto enabled
 a2d1  MT416842 BlueField SoC Crypto disabled
 a2d2  MT416842 BlueField integrated ConnectX-5 network controller
 a2d3  MT416842 BlueField multicore SoC family VF
 a2d4  MT42822 BlueField-2 SoC Crypto enabled
 a2d5  MT42822 BlueField-2 SoC Crypto disabled
 a2d6  MT42822 BlueField-2 integrated ConnectX-6 Dx network controller
 c2d2  MT416842 BlueField SoC management interfac
 c2d3  MT42822 BlueField-2 SoC Management Interface
# SwitchX-2, 40GbE
 switch
 c738  MT51136
 c739  MT51136 GW
 c838  MT52236
 c839  MT52236 router
 caf1  ConnectX-4 CAPI Function
# Spectrum, 100GbE Switch
 cb84  MT52100
 cf08  Switch-IB2
 cf6c  MT53100 [Spectrum-2]
 cf70  Spectrum-3
 cf80  Spectrum-4
 d2f0  Quantum HDR (200Gbps) switch
 d2f2  Quantum-2 NDR (400Gbps) switch
15b4  CCI/TRIAD
15b5  Cimetrics Inc
15b6  Texas Memory Systems Inc
 0001  XP15 DSP Accelerator
 0002  XP30 DSP Accelerator
 0003  XP00 Data Acquisition Device
 0004  XP35 DSP Accelerator
 0007  XP100 DSP Accelerator [XP100-T0]
 0008  XP100 DSP Accelerator [XP100-T1]
 0009  XP100 DSP Accelerator [XP100-E0]
 000a  XP100 DSP Accelerator [XP100-E1]
 000e  XP100 DSP Accelerator [XP100-0]
 000f  XP100 DSP Accelerator [XP100-1]
 0010  XP100 DSP Accelerator [XP100-P0]
 0011  XP100 DSP Accelerator [XP100-P1]
 0012  XP100 DSP Accelerator [XP100-P2]
 0013  XP100 DSP Accelerator [XP100-P3]
 0014  RamSan Flash SSD
 0015  ZBox
15b7  Sandisk Corp
 2001  Skyhawk Series NVME SSD
 5001  WD Black NVMe SSD
 5002
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WD Black 2018/PC SN720 NVMe SSD
5003 WD Black 2018/PC SN520 NVMe SSD
15b8 ADDI-DATA GmbH
1001 APCI1516 SP controller (16 digi outputs)
1003 APCI1032 SP controller (32 digi inputs w/ opto coupler)
1004 APCI2032 SP controller (32 digi outputs)
1005 APCI2200 SP controller (8/16 digi outputs (relay))
1006 APCI1564 SP controller (32 digi ins, 32 digi outs)
100a APCI1696 SP controller (96 TTL I/Os)
3001 APCI3501 SP controller (analog output board)
300f APCI3600 Noise and vibration measurement board
7001 APCI7420 2-port Serial Controller
7002 APCI7300 Serial Controller
15b9 Maestro Digital Communications
15ba Impacct Technology Corp
15bb Portwell Inc
15bc Agilent Technologies
0100 HPFC-5600 Tachyon DX2+ FC
0103 QX4 PCI Express quad 4-gigabit Fibre Channel controller
0105 Celerity FC-44XS/FC-42XS/FC-41XS/FC-44ES/FC-42ES/FC-41ES
117c 0022 Celerity FC-42XS Fibre Channel Adapter
117c 0025 Celerity FC-44ES Fibre Channel Adapter
117c 0026 Celerity
FC-42ES Fibre Channel Adapter
1100 E8001-66442 PCI Express CIC
2922 64 Bit, 133MHz PCI-X Exerciser & Protocol Checker
2928 64 Bit, 66MHz PCI Exerciser & Analyzer
2929 64 Bit, 133MHz PCI-X Analyzer & Exerciser
15bd DFI Inc
15be Sola Electronics
15bf High Tech Computer Corp (HTC)
15c0 BVM Ltd
15c1 Quantel
15c2 Newer Technology Inc
15c3 Taiwan Mycomp Co Ltd
15c4 EVSX Inc
15c5 Procomp Informatics Ltd
8010 1394b - 1394 Firewire 3-Port Host Adapter Card
15c6 Technical University of Budapest
15c7 Tateyama System Laboratory Co Ltd
0349 Tateyama C-PCI PLC/NC card Rev.01A
15c8 Penta Media Co Ltd
15c9 Serome Technology Inc
15ca Bitboys OY
15cb AG Electronics Ltd
15cc Hotrail Inc
15cd Dreamtech Co Ltd
15ce Genrad Inc

15cf Hilscher GmbH
 0000 CIFX 50E-DP(M/S)
15d1 Infineon Technologies AG
15d2 FIC (First International Computer Inc)
15d3 NDS Technologies Israel Ltd
15d4 Iwill Corp
15d5 Tatung Co
15d6 Entridia Corp
15d7 Rockwell-Collins Inc
15d8 Cybernetics Technology
 Co Ltd
15d9 Super Micro Computer Inc
15da Cyberfirm Inc
15db Applied Computing Systems Inc
15dc Litronic Inc
 0001 Argus 300 PCI Cryptography Module
15dd Sigmatel Inc
15de Malleable Technologies Inc
15df Infinilink Corp
15e0 Cacheflow Inc
15e1 Voice Technologies Group Inc
15e2 Quicknet Technologies Inc
 0500 PhoneJack-PCI
15e3 Networth Technologies Inc
15e4 VSN Systemen BV
15e5 Valley technologies Inc
15e6 Agere Inc
15e7 Get Engineering Corp
15e8 National Datacomm Corp
 0130 Wireless PCI Card
 0131 NCP130A2 Wireless NIC
15e9 Pacific Digital Corp
 1841 ADMA-100 DiscStaQ ATA Controller
15ea Tokyo Denshi Sekei K.K.
15eb DResearch Digital Media Systems GmbH
15ec Beckhoff GmbH
 3101 FC3101 Profibus DP 1 Channel PCI
 5102 FC5102
15ed Macrolink Inc
15ee In Win Development Inc
15ef Intelligent Paradigm Inc
15f0 B-Tree Systems Inc
15f1 Times N Systems Inc
15f2 Diagnostic Instruments Inc
15f3 Digitmedia Corp
15f4 Valuesoft
15f5 Power Micro Research
15f6

Extreme Packet Device Inc
15f7 Banctec
15f8 Koga Electronics Co
15f9 Zenith Electronics Corp
15fa J.P. Axzam Corp
15fb Zilog Inc
15fc Techsan Electronics Co Ltd
15fd N-CUBED.NET
15fe Kinpo Electronics Inc
15ff Fastpoint Technologies Inc
1600 Northrop Grumman - Canada Ltd
1601 Tenta Technology
1602 Prosys-tec Inc
1603 Nokia Wireless Communications
1604 Central System Research Co Ltd
1605 Pairgain Technologies
1606 Europop AG
1607 Lava Semiconductor Manufacturing Inc
1608 Automated Wagering International
1609 Scimetric Instruments Inc
1612 Telesynergy Research Inc.
1618 Stone Ridge Technology
0001 RDX 11
0002 HFT-01
0400 FarSync T2P (2 port X.21/V.35/V.24)
0440 FarSync T4P (4 port X.21/V.35/V.24)
0610 FarSync T1U (1 port X.21/V.35/V.24)
0620 FarSync T2U (2 port X.21/V.35/V.24)
0640 FarSync T4U (4 port X.21/V.35/V.24)
1610 FarSync TE1 (T1,E1)
2610 FarSync DSL-S1 (SHDSL)
3640 FarSync T4E (4-port X.21/V.35/V.24)
4620 FarSync T2Ue PCI Express (2-port X.21/V.35/V.24)
4640 FarSync T4Ue PCI Express (4-port X.21/V.35/V.24)
1619 FarSite Communications Ltd
0400 FarSync T2P (2 port X.21/V.35/V.24)
0440 FarSync T4P (4 port X.21/V.35/V.24)
0610 FarSync T1U (1 port X.21/V.35/V.24)
0620 FarSync T2U (2 port X.21/V.35/V.24)
0640 FarSync T4U (4 port X.21/V.35/V.24)
1610 FarSync TE1 (T1,E1)
1612 FarSync TE1 PCI Express (T1,E1)
2610 FarSync DSL-S1 (SHDSL)
3640 FarSync T4E (4-port X.21/V.35/V.24)
4620 FarSync T2Ue PCI Express (2-port X.21/V.35/V.24)
4640 FarSync T4Ue PCI Express (4-port X.21/V.35/V.24)
5621 FarSync T2Ee PCI Express (2 port X.21/V.35/V.24)

5641 FarSync T4Ee PCI Express (4 port X.21/V.35/V.24)
6620 FarSync T2U-PMC PCI Express (2 port X.21/V.35/V.24)
161f Rioworks
1621 Lynx Studio Technology, Inc.
0020 LynxTWO-A
0021 LynxTWO-B
0022 LynxTWO-C
0023 Lynx L22
0024 Lynx AES16
0025 Lynx AES16-SRC
0028 Lynx AES16e
1626 TDK Semiconductor Corp.
8410 RTL81xx Fast Ethernet
1629 Kongsberg Spacetec
AS
1003 Format synchronizer v3.0
1006 Format synchronizer, model 10500
1007 Format synchronizer, model 21000
2002 Fast Universal Data Output
3100 IO31000 Frame Synchronizer and I/O
3200 IO32000 Frame Synchronizer and I/O
4002 High Rate Demodulator
5001 High Rate FEC
6001 High Rate Demodulator and FEC
1631 Packard Bell B.V.
1638 Standard Microsystems Corp [SMC]
1100 SMC2602W EZConnect / Addtron AWA-100 / Eumitcom PCI WL11000
163c Smart Link Ltd.
3052 SmartLink SmartPCI562 56K Modem
5449 SmartPCI561 Modem
1641 MKNet Corp.
1642 Bitland(ShenZhen) Information Technology Co., Ltd.
nee Brocade Communications Systems, Inc.
1657 Cavium QLogic
0013 425/825/42B/82B 4Gbps/8Gbps PCIe dual port FC HBA
103c 1742 82B 8Gbps dual port FC HBA
103c 1744 42B 4Gbps dual port FC HBA
1657 0014 425/825 4Gbps/8Gbps PCIe dual port FC HBA
0014 1010/1020/1007/1741 10Gbps CNA
1657 0014 1010/1020/1007/1741 10Gbps CNA - FCOE
1657 0015 1010/1020/1007/1741 10Gbps
CNA - LL
0017 415/815/41B/81B 4Gbps/8Gbps PCIe single port FC HBA
103c 1741 41B 4Gbps single port FC HBA
103c 1743 81B 8Gbps single port FC HBA
1657 0014 415/815 4Gbps/8Gbps single port PCIe FC HBA
0021 804 8Gbps FC HBA for HP Bladesystem c-class
0022 BR-1860 Fabric Adapter

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  1657 0022  10Gbps CNA - FCOE
  1657 0023  10Gbps CNA - LL
  1657 0024  16Gbps FC HBA
# Mezz card for IBM
 0023  1867/1869 16Gbps FC HBA
# Same Device_ID used for 410 (1port) and 420 (2 port) HBAs.
 0646  400 4Gbps PCIe FC HBA
165a  Epix Inc
 c100  PIXCI(R) CL1 Camera Link Video Capture Board [custom QL5232]
 d200  PIXCI(R) D2X Digital Video Capture Board [custom QL5232]
 d300  PIXCI(R) D3X Digital Video Capture Board [custom QL5232]
 eb01  PIXCI(R) EB1 PCI Camera Link Video Capture Board
# Gidel Reconfigurable Computing
165c  Gidel Ltd.
 5361  PROCStarII60-1
 5362  PROCStarII60-2
 5364  PROCStarII60-4
 5435  ProcSparkII
 5661  ProcE60
 56e1  ProcE180
 5911  ProcStarIII110-1
 5912  ProcStarIII110-2
 5913
  ProcStarIII110-3
 5914  ProcStarIII110-4
 5921  ProcStarIII150-1
 5922  ProcStarIII150-2
 5923  ProcStarIII150-3
 5924  ProcStarIII150-4
 5931  ProcStarIII260-1
 5932  ProcStarIII260-2
 5933  ProcStarIII260-3
 5934  ProcStarIII260-4
 5941  ProcStarIII340-1
 5942  ProcStarIII340-2
 5943  ProcStarIII340-3
 5944  ProcStarIII340-4
 5a01  ProceIII80
 5a11  ProceIII110
 5a21  ProceIII150
 5a31  ProceIII260
 5a41  ProceIII340
 5b51  ProceIV360
 5b61  ProceIV530
 5b71  ProceIV820
 5c01  ProcStarIV80-1
 5c02  ProcStarIV80-2
 5c03  ProcStarIV80-3
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5c04 ProcStarIV80-4
5c11 ProcStarIV110-1
5c12 ProcStarIV110-2
5c13 ProcStarIV110-3
5c14 ProcStarIV110-4
5c51 ProcStarIV360-1
5c52 ProcStarIV360-2
5c53 ProcStarIV360-3
5c54 ProcStarIV360-4
5c61 ProcStarIV530-1
5c62 ProcStarIV530-2
5c63 ProcStarIV530-3
5c64 ProcStarIV530-4
5c71 ProcStarIV820-1
5c72 ProcStarIV820-2
5c73 ProcStarIV820-3
5c74 ProcStarIV820-4
5d01 Proc10480
5d11 Proc104110
5f01 ProceV_A3
5f11
ProceV_A7
5f21 ProceV_AB
5f31 ProceV_D5
5f41 ProceV_D8
6732 Proc6M
6832 Proc12M
7101 Proc10a_27
7111 Proc10a_48
7121 Proc10a_66
7141 Proc10a_115
7181 Proc10a_27S
7191 Proc10a_48S
71a1 Proc10a_66S
71b1 Proc10A
72b1 HawkEye
73b1 Proc10s
165d Hsing Tech. Enterprise Co., Ltd.
165f Linux Media Labs, LLC
1020 LMLM4 MPEG-4 encoder
1661 Worldspace Corp.
1668 Actiontec Electronics Inc
0100 Mini-PCI bridge
Formerly SiByte, Inc.
166d Broadcom Corporation
0001 SiByte BCM1125/1125H/1250 System-on-a-Chip PCI
0002 SiByte BCM1125H/1250 System-on-a-Chip HyperTransport
0012 SiByte BCM1280/BCM1480 System-on-a-Chip PCI-X

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0014  Sibyte BCM1280/BCM1480 System-on-a-Chip HyperTransport
1677  Bernecker + Rainer
104e  5LS172.6 B&R Dual CAN Interface Card
12d7  5LS172.61 B&R Dual CAN Interface Card
20ad  5ACPCI.MFIO-K01 Profibus DP / K-Feldbus / COM
1678  NetEffect
0100  NE020 10Gb Accelerated Ethernet Adapter (iWARP RNIC)
1679  Tokyo Electron Device Ltd.
3000
 SD Standard host controller [Ellen]
167b  ZyDAS Technology Corp.
2102  ZyDAS ZD1202
 187e 3406  ZyAIR B-122 CardBus 11Mbs Wireless LAN Card
 187e 3407  ZyAIR B-320 802.11b Wireless PCI Adapter
2116  ZD1212B Wireless Adapter
167d  Samsung Electro-Mechanics Co., Ltd.
a000  MagicLAN SWL-2210P 802.11b [Intersil ISL3874]
167e  ONNTO Corp.
1681  Hercules
1682  XFX Pine Group Inc.
c580  Radeon RX 580
1688  CastleNet Technology Inc.
1170  WLAN 802.11b card
# nee Atheros Communications, Inc.
168c  Qualcomm Atheros
0007  AR5210 Wireless Network Adapter [AR5000 802.11a]
 1737 0007  WPC54A Wireless PC Card
 1b47 0100  Harmony 8450CN Wireless CardBus Module
 1b47 0110  Skyline 4030 / Harmony 8450 802.11a Wireless CardBus Adapter
 8086 2501  PRO/Wireless 5000 LAN PCI Adapter Module
0011  AR5211 Wireless Network Adapter [AR5001A 802.11a]
0012  AR5211 Wireless Network Adapter [AR5001X 802.11ab]
 1186 3a03  AirPro DWL-A650 Wireless Cardbus Adapter (rev.B)
 1186 3a04  AirPro DWL-AB650 Multimode
Wireless Cardbus Adapter
 1186 3a05  AirPro DWL-AB520 Multimode Wireless PCI Adapter
 126c 8031  2201 Mobile Adapter
 1385 4400  WAB501 802.11ab Wireless CardBus Card
 1b47 aa00  8460 802.11ab Wireless CardBus Adapter
0013  AR5212/5213/2414 Wireless Network Adapter
 0308 3402  AG-100 802.11ag Wireless Cardbus Adapter
 0308 3405  G-102 v2 802.11g Wireless Cardbus Adapter
 0308 3408  G-170S 802.11g Wireless CardBus Adapter
 0e11 00e5  NC6000/NC8000 laptop
 10b7 6002  3CRWE154A72 802.11abg Cardbus Adapter
 1113 d301  Philips CPWNA100 Wireless CardBus adapter
 1113 ee23  SMCWPCIT-G 108Mbps Wireless PCI adapter
 1154 033b  Buffalo WLI-CB-AMG54
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1154 034e Buffalo WLI-CB-AG108HP 802.11abg Cardbus Adapter
1186 3202 DWL-G650 (Rev B3,B5) Wireless cardbus adapter
1186 3203 AirPlus DWL-G520 Wireless PCI Adapter (rev. A)
1186 3a07 AirXpert DWL-AG650 Wireless Cardbus Adapter
1186 3a08 AirXpert DWL-AG520 Wireless PCI Adapter
1186 3a12 D-Link AirPlus DWL-G650 Wireless
Cardbus Adapter(rev.C)
1186 3a13 AirPlus DWL-G520 Wireless PCI Adapter (rev. B)
1186 3a14 AirPremier AG DWL-AG530 Wireless PCI Adapter (rev.A)
1186 3a17 D-Link AirPremier DWL-G680 Wireless Cardbus Adapter
1186 3a18 D-Link AirPremier DWL-G550 Wireless PCI Adapter
1186 3a1a WNA-2330 802.11bg Wireless CardBus Adapter
1186 3a63 D-Link AirPremier DWL-AG660 Wireless Cardbus Adapter
1186 3a93 Conceptronic C54I Wireless 801.11g PCI card
1186 3a94 Conceptronic C54C 802.11g Wireless Cardbus Adapter
1186 3ab0 Allnet ALL0281 Wireless PCI Card
1385 4600 WAG511 802.11a/b/g Dual Band Wireless PC Card
1385 4610 WAG511 802.11a/b/g Dual Band Wireless PC Card
1385 4900 WG311v1 802.11g Wireless PCI Adapter
1385 4a00 WAG311 802.11a/g Wireless PCI Adapter
1385 4b00 WG511T 108 Mbps Wireless PC Card (rev.A/B)
1385 4d00 WG311T 108 Mbps Wireless PCI Adapter (rev.A2)
1385 4f00 WG511U Double 108 Mbps Wireless PC Card
1385 5a00 WG311T (rev.A3 v1h3/v1h4) 108
Mbps Wireless PCI Adapter [AR2412]
1385 5b00 WG511T 108 Mbps Wireless PC Card (rev.C)
1385 5d00 WPN511 RangeMax Wireless PC Card
1458 e911 GN-WIAG02
1468 0403 U10H014 802.11g Cardbus Adapter
1468 0408 ThinkPad 11b/g Wireless LAN Mini PCI Adapter
14b7 0a10 8480-WD 802.11abg Cardbus Adapter
14b7 0a60 8482-WD ORiNOCO 11a/b/g Wireless PCI Adapter
14b7 aa30 8800-FC 802.11bg Cardbus Adapter
14b7 aa40 8470-WD 802.11bg Cardbus Adapter
14b9 cb21 CB21 802.11a/b/g Cardbus Adapter
1668 1026 IBM HighRate 11 a/b/g Wireless CardBus Adapter
168c 0013 AirPlus XtremeG DWL-G650 Wireless PCMCIA Adapter
168c 1025 DWL-G650B2 Wireless CardBus Adapter
168c 1027 Engenius NL-3054CB ARIES b/g CardBus Adapter
168c 1042 Ubiquiti Networks SuperRange a/b/g Cardbus Adapter
168c 1051 EZ Connect g 802.11g 108Mbps Wireless PCI Adapter
168c 2026 Netgate 5354MP ARIES a(108Mb turbo)/b/g MiniPCI Adapter
168c 2027 D-Link AirPlus DWL-G520 Wireless PCI Adapter (rev. A)
168c
2041 Engenius 5354MP Plus ARIES2 b/g MiniPCI Adapter
168c 2042 Engenius 5354MP Plus ARIES2 a/b/g MiniPCI Adapter
168c 2051 TRENDnet TEW-443PI Wireless PCI Adapter
16a5 160a BWP712 802.11bg Wireless CardBus Adapter

16ab 7302 Trust Speedshare Turbo Pro Wireless PCI Adapter
1737 0017 WPC55AG
1737 0026 WMP55AG v1.1
1737 0035 WPC55AG v1.2 802.11abg Cardbus Adapter
1737 0036 WMP55AG v1.2 802.11abg PCI Adapter
1799 3000 F6D3000 Dual-Band Wireless A+G Desktop Card
1799 3010 F6D3010 Dual-Band Wireless A+G Notebook Card
17cf 0042 Z-COMAX Highpower XG-622H (400mw) 802.11b/g mini-PCI Adapter
185f 1012 CM9 Wireless a/b/g MiniPCI Adapter
185f 2012 Wistron NeWeb WLAN a+b+g model CB9
a727 6801 3CRXJK10075 OfficeConnect Wireless 108Mbps 11g XJACK PC Card
001a AR2413/AR2414 Wireless Network Adapter [AR5005G(S) 802.11bg]
1052 168c Sweex Wireless Lan PC Card 54Mbps
1113 ee20 SMC Wireless CardBus Adapter 802.11g (SMCWCB-G EU)
1113 ee24 SMC Wireless PCI
Card WPCI-G
1186 3a15 AirPlus G DWL-G630 Wireless Cardbus Adapter (rev.D1)
1186 3a16 AirPlus G DWL-G510 Wireless PCI Adapter(rev.B)
1186 3a1c WNA-1330 Notebook Adapter
1186 3a1d WDA-1320 Desktop Adapter
1186 3a23 AirPlus G DWL-G520+A Wireless PCI Adapter
1186 3a24 AirPlus G DWL-G650+A Wireless Cardbus Adapter
1186 3b08 AirPlus G DWL-G630 Wireless Cardbus Adapter (rev.C1)
168c 001a Belkin FD7000
168c 1052 TP-Link TL-WN510G Wireless CardBus Adapter
168c 2052 Compex Wireless 802.11 b/g MiniPCI Adapter, Rev A1 [WLM54G]
16ec 0122 Wireless PCI Adapter Model 5418
1737 0053 WPC54G v7 802.11g Wireless-G Notebook Adapter
1799 700c F5D7000 v5000 Wireless G Desktop Card
1799 701d F5D7010 v5000 Wireless G Notebook Card
17f9 0008 DX-WGNBC 802.11bg Wireless CardBus Adapter
17f9 0018 DX-WGDTC 802.11bg Wireless PCI Adapter
001b AR5413/AR5414 Wireless Network Adapter [AR5006X(S) 802.11abg]
Atheros AR5414 32-bit mini-PCI type IIIB
0777 1107 UB5 802.11a
Wireless Mini PCI Adapter
0777 3002 XR2 802.11g Wireless Mini PCI Adapter
0777 3005 XR5 802.11a Wireless Mini PCI Adapter
0777 3009 XR9 900MHz Wireless Mini PCI Adapter
1154 034e WLI-CB-AG108HP 802.11abg Wireless CardBus Adapter
1186 3a19 D-Link AirPremier AG DWL-AG660 Wireless Cardbus Adapter
1186 3a22 AirPremier AG DWL-AG530 Wireless PCI Adapter (rev.B)
11ad 5001 WN5301A 802.11bg Wireless PCI Adapter
1458 e901 GN-WI01HT Wireless a/b/g MiniPCI Adapter
168c 001b Wireless LAN PCI LiteOn
168c 1062 IPN-W100CB 802.11abg Wireless CardBus Adapter
168c 2062 EnGenius EMP-8602 (400mw) or Compex WLM54AG (SuperAG)
168c 2063 EnGenius EMP-8602 (400mw) or Compex WLM54AG

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	17f9 000b  WL-711A 802.11abg Wireless CardBus Adapter
	17f9 000c  WPIA-112AG 802.11abg Wireless PCI Adapter
	17f9 000d  PC-686X 802.11abg Wireless Mini PCI Adapter
	185f 1600  DCMA-82 High Power WLAN 802.11a/b/g mini-PCI Module (Super A/G, eXtended Range, 400mW)
	1948 3aba  RBTBJ-AW 802.11abg
	Wireless Cardbus Adapter
	a727 6804  Wireless 11a/b/g PC Card with XJACK(r) Antenna
	001c  AR242x / AR542x Wireless Network Adapter (PCI-Express)
	0777 3006  SRX 802.11abg Wireless ExpressCard Adapter
	103c 137a  AR5BXB63 (Foxconn) 802.11bg Mini PCIe NIC
	106b 0086  AirPort Extreme
	144f 7106  WLL3140 (Toshiba PA3501U-1MPC) 802.11bg Wireless Mini PCIe Card
	144f 7128  WLL3141 (Toshiba PA3613U-1MPC) 802.11bg Wireless Mini PCIe Card
	1468 0428  AR5BXB63 802.11bg NIC
	1468 042a  AR5007EG 802.11bg NIC
	147b 1033  AirPace Wi-Fi
	168c 001c  AR242x 802.11abg NIC (PCI Express)
	168c 3061  AR5006EGS 802.11bg NIC (2.4GHz, PCI Express)
	168c 3062  AR5006EXS 802.11abg NIC (2.4/5.0GHz, PCI Express)
	168c 3063  AR5006EX 802.11abg NIC (2.4/5.0GHz, PCI Express)
	168c 3065  AR5006EG 802.11bg NIC (2.4GHz, PCI Express)
	168c 3067  AR242x 802.11abg Wireless PCI Express Adapter (rev 01)
	1a3b 1026  AW-GE780 802.11bg Wireless Mini PCIe Card
	001d  AR2417 Wireless Network Adapter [AR5007G
	802.11bg]
	1799 720b  F5D7000 v8000 Wireless G Desktop Card
	1799 721b  F5D7010 v8000 Wireless G Notebook Card
	# the name AR5005VL is used for some AR5513 based designs
	0020  AR5513 802.11abg Wireless NIC
	0308 3407  M-102 802.11g Wireless Cardbus Adapter
	1186 3a67  DWL-G650M Super G MIMO Wireless Notebook Adapter
	1186 3a68  DWL-G520M Wireless 108G MIMO Desktop Adapter
	187e 340e  M-302 802.11g Wireless PCI Adapter
	1976 2003  TEW-601PC 802.11g Wireless CardBus Adapter
	0023  AR5416 Wireless Network Adapter [AR5008 802.11(a)bgn]
	0308 340b  NWD-170N 802.11bgn Wireless CardBus Adapter
	1154 0365  Buffalo WLP-CB-AG300 802.11abgn Cardbus Adapter
	1154 0367  WLI-CB-AG301N 802.11abgn Wireless CardBus Adapter
	1186 3a6a  DWA-642 802.11n RangeBooster N CardBus Adapter
	1186 3a6b  DWA-547 802.11n RangeBooster N 650 DeskTop Adapter
	1186 3a6d  DWA-552 802.11n Xtreme N Desktop Adapter (rev A1)
	1186 3a76  DWA-645 802.11n RangeBooster N 650 Notebook Adapter (rev A1)
	1737 0059
	WPC300N v2 Wireless-N Notebook Adapter
	1737 0069  WPC100 v1 802.11n RangePlus Wireless Notebook Adapter
	1737 0072  WMP110 v1 802.11n RangePlus Wireless PCI Adapter
	1799 8011  F5D8011 v1 802.11n N1 Wireless Notebook Card
	187e 3411  NWD-370N 802.11n Wireless PCI Adapter
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1976 2008 TEW-621PC 802.11bgn Wireless CardBus Adapter
0024 AR5418 Wireless Network Adapter [AR5008E 802.11(a)bgn] (PCI-Express)
106b 0087 AirPort Extreme
1186 3a70 DWA-556 Xtreme N PCI Express Desktop Adapter
0027 AR9160 Wireless Network Adapter [AR9001 802.11(a)bgn]
0777 4082 SR71-A 802.11abgn Wireless Mini PCI Adapter
0029 AR922X Wireless Network Adapter
0777 4005 SR71-15 802.11an Mini PCI Adapter
1186 3a7a DWA-552 802.11n Xtreme N Desktop Adapter (rev A2)
1186 3a7d DWA-552 802.11n Xtreme N Desktop Adapter (rev A3)
168c 0029 AR922X Wireless Network Adapter
168c 2096 Compex WLM200NX / Wistron DNMA-92
002a AR928X Wireless Network Adapter (PCI-Express)
0777 4f05 SR71-X 802.11abgn
Wireless ExpressCard Adapter [AR9280]
103c 3041 AR5BHB92-H 802.11abgn Wireless Half-size Mini PCIe Card [AR9280]
103c 3042 AzureWave AW-NE773 802.11abgn Wireless Half-size Mini PCIe Card [AR9280]
105b e006 T77H053.00 802.11bgn Wireless Mini PCIe Card [AR9281]
105b e01f T77H047.31 802.11bgn Wireless Half-size Mini PCIe Card [AR9283]
106b 008f AirPort Extreme
11ad 6600 WN6600A 802.11bgn Wireless Mini PCIe Card [AR9281]
144f 7141 WLL6080 802.11bgn Wireless Mini PCIe Card [AR9281]
168c 0203 DW1525 802.11abgn WLAN PCIe Card [AR9280]
1a32 0303 EM303 802.11bgn Wireless Mini PCIe Card [AR9281]
1a32 0306 EM306 802.11bgn Wireless Half-size Mini PCIe Card [AR9283]
1a3b 1067 AW-NE771 802.11bgn Wireless Mini PCIe Card [AR9281]
1a3b 1071 AW-NE772 802.11abgn Wireless Mini PCIe Card [AR9280]
1a3b 1081 AW-NE773 802.11abgn Wireless Half-size Mini PCIe Card [AR9280]
002b AR9285 Wireless Network Adapter (PCI-Express)
1028 0204 Wireless 1502 802.11bgn Half-size
Mini PCIe Card
1028 0205 Wireless 1702 802.11bgn Half-size Mini PCIe Card [AR9002WB-1NGCD]
103c 303f U98Z062.10 802.11bgn Wireless Half-size Mini PCIe Card
103c 3040 U98Z062.12 802.11bgn Wireless Half-size Mini PCIe Card
105b e017 T77H126.00 802.11bgn Wireless Half-size Mini PCIe Card
105b e023 T77H121.04 802.11bgn Wireless Half-size Mini PCIe Card
105b e025 T77H121.05 802.11bgn Wireless Half-size Mini PCIe Card
1113 e811 WN7811A (Toshiba PA3722U-1MPC) 802.11bgn Wireless Half-size Mini PCIe Card
185f 30af DNXA-95 802.11bgn Wireless Half-size Mini PCIe Card
1931 0023 Option GTM67x PCIe WiFi Adapter
1a3b 1089 AW-NE785 / AW-NE785H 802.11bgn Wireless Full or Half-size Mini PCIe Card
1a3b 2c37 AW-NB037H 802.11bgn Wireless Half-size Mini PCIe Card [AR9002WB-1NGCD]
1b9a 0401 XW204E 802.11bgn Wireless Half-size Mini PCIe Card
1b9a 0c03 WB214E 802.11bgn Wireless Half-size Mini PCIe Card [AR9002WB-1NGCD]
002c AR2427 802.11bg Wireless Network Adapter
(PCI-Express)
002d AR9227 Wireless Network Adapter
002e AR9287 Wireless Network Adapter (PCI-Express)

105b e034 T77H167.00
0030 AR93xx Wireless Network Adapter
103c 1627 AR9380/HB112 802.11abgn 3×3 Wi-Fi Adapter
106b 009a AirPort Extreme
1186 3a7e DWA-566 Wireless N 300 Dual Band PCIe Desktop Adapter
1a56 2000 Killer Wireless-N 1102 Half-size Mini PCIe Card [AR9382]
1a56 2001 Killer Wireless-N 1103 Half-size Mini PCIe Card [AR9380]
0032 AR9485 Wireless Network Adapter
1028 0208 Wireless 1506 WLAN Half Mini-Card
103c 1838 AR9485/HB125 802.11bgn 1×1 Wi-Fi Adapter
105b e044 Unex DHXA-225
144d 410e AR9485WB-EG 802.11b/g/n mini-PCIe card on a series 3 laptop
1a3b 1186 AW-NE186H
0033 AR958x 802.11abgn Wireless Network Adapter
168c a120 AR9582 802.11a/n WLAN Mini-PCIe Adapter
0034 AR9462 Wireless Network Adapter
1028 020b Wireless 1601 802.11abgn Adapter
1028 0300 Wireless 1802 802.11abgn Adapter
1a56 2003 Killer Wireless-N 1202 Half-size
Mini PCIe Card
0036 QCA9565 / AR9565 Wireless Network Adapter
0037 AR9485 Wireless Network Adapter
Also used as Gigabyte GC-WB150 on a PCIe-to-mini-PCIe converter
1a3b 2100 AW-NB100H 802.11n Wireless Mini PCIe Card
003c QCA986x/988x 802.11ac Wireless Network Adapter
003e QCA6174 802.11ac Wireless Network Adapter
1a56 143a Killer 1435 Wireless-AC
1a56 1525 Killer N1525 Wireless-AC
0040 QCA9980/9990 802.11ac Wireless Network Adapter
0041 QCA6164 802.11ac Wireless Network Adapter
0042 QCA9377 802.11ac Wireless Network Adapter
11ad 08a6 Qualcomm Atheros QCA9377 802.11ac Wireless Network Adapter
0046 QCA9984 802.11ac Wave 2 Wireless Network Adapter
0050 QCA9887 802.11ac Wireless Network Adapter
0207 AR5210 Wireless Network Adapter [AR5000 802.11a]
1014 AR5212 802.11abg NIC
1014 058a ThinkPad 11a/b/g Wireless LAN Mini Express Adapter (AR5BXB6)
9013 AR5002X Wireless Network Adapter
ff19 AR5006X Wireless Network Adapter
ff1b AR2425 Wireless Network
Adapter [AR5007EG 802.11bg]
ff1c AR5008 Wireless Network Adapter
ff1d AR922x Wireless Network Adapter
Found in "AVM Fritz!Box FON WLAN 7270v3"
168c ee1c AR9220-AC1A [AVM Fritz!Box FON WLAN 7270 v3]
1695 EPoX Computer Co., Ltd.
169c Netcell Corporation
0044 Revolution Storage Processing Card

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# The right ID is 196d, but they got it nibble-swapped in 2202.
169d  Club-3D VB (Wrong ID)
16a5  Tekram Technology Co.,Ltd.
16ab  Global Sun Technology Inc
 1100  GL24110P
 1101  PLX9052 PCMCIA-to-PCI Wireless LAN
 1102  PCMCIA-to-PCI Wireless Network Bridge
 8501  WL-8305 Wireless LAN PCI Adapter
16ae  SafeNet Inc
 0001  SafeXcel 1140
 000a  SafeXcel 1841
 1141  SafeXcel 1141
# misused vendor ID 0001
  0001 0001  SafeXcel 1141 v. 1.1
 1841  SafeXcel 1842
16af  SparkLAN Communications, Inc.
16b4  Aspex Semiconductor Ltd
16b8  Sonnet Technologies, Inc.
16be  Creatix Polymedia GmbH
16c3  Synopsys, Inc.
 abcd  DWC_usb3 / PCIe bridge
 abce  DWC_usb3
 abcf  DWC_usb31
 edda  EPMockUp
16c6
  Micrel-Kendin
 8695  Centaur KS8695 ARM processor
 8842  KSZ8842-PMQL 2-Port Ethernet Switch
16c8  Octasic Inc.
16c9  EONIC B.V. The Netherlands
16ca  CENATEK Inc
 0001  Rocket Drive DL
# nee Innocore Gaming Ltd., nee Densitron Gaming Ltd., a division of Densitron Technologies
16cd  Advantech Co. Ltd
 0101  DirectPCI SRAM for DPX-11x series
 0102  DirectPCI SRAM for DPX-S/C/E-series
 0103  DirectPCI ROM for DPX-11x series
 0104  DirectPCI ROM for DPX-S/C/E-series
 0105  DirectPCI I/O for DPX-114/DPX-115
 0106  DirectPCI I/O for DPX-116
 0107  DirectPCI I/O for DPX-116U
 0108  DirectPCI I/O for DPX-117
 0109  DirectPCI I/O for DPX-112
 010a  DirectPCI I/O for DPX-C/E-series
 010b  DirectPCI I/O for DPX-S series
16ce  Roland Corp.
16d5  Acromag, Inc.
 0504  PMC-DX504 Reconfigurable FPGA with LVDS I/O
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0520 PMC520 Serial Communication, 232 Octal
0521 PMC521 Serial Communication, 422/485 Octal
1020 PMC-AX1020 Reconfigurable FPGA with A/D & D/A
1065 PMC-AX1065 Reconfigurable FPGA
with A/D & D/A
2004 PMC-DX2004 Reconfigurable FPGA with LVDS I/O
2020 PMC-AX2020 Reconfigurable FPGA with A/D & D/A
2065 PMC-AX2065 Reconfigurable FPGA with A/D & D/A
3020 PMC-AX3020 Reconfigurable FPGA with A/D & D/A
3065 PMC-AX3065 Reconfigurable FPGA with A/D & D/A
4243 PMC424, APC424, AcPC424 Digital I/O and Counter Timer Module
4248 PMC464, APC464, AcPC464 Digital I/O and Counter Timer Module
424b PMC-DX2002 Reconfigurable FPGA with Differential I/O
4253 PMC-DX503 Reconfigurable FPGA with TTL and Differential I/O
4312 PMC-CX1002 Reconfigurable Conduction-Cooled FPGA Virtex-II with Differential I/O
4313 PMC-CX1003 Reconfigurable Conduction-Cooled FPGA Virtex-II with CMOS and Differential I/O
4322 PMC-CX2002 Reconfigurable Conduction-Cooled FPGA Virtex-II with Differential I/O
4323 PMC-CX2003 Reconfigurable Conduction-Cooled FPGA Virtex-II with CMOS and Differential I/O
4350 PMC-DX501 Reconfigurable Digital I/O Module
4353 PMC-DX2003 Reconfigurable FPGA
with TTL and Differential I/O
4357 PMC-DX502 Reconfigurable Differential I/O Module
4457 PMC730, APC730, AcPC730 Multifunction Module
4471 XMC730 Multi-function I/O module with front I/O
4473 XMC730CC Multi-function I/O module with rear I/O Conduction-cooled
464d PMC408 32-Channel Digital Input/Output Module
4850 PMC220-16 12-Bit Analog Output Module
4a42 PMC483, APC483, AcPC483 Counter Timer Module
4a50 PMC484, APC484, AcPC484 Counter Timer Module
4a56 PMC230 16-Bit Analog Output Module
4b47 PMC330, APC330, AcPC330 Analog Input Module, 16-bit A/D
4c40 PMC-LX40 Reconfigurable Virtex-4 FPGA with plug-in I/O
4c60 PMC-LX60 Reconfigurable Virtex-4 FPGA with plug-in I/O
4d4d PMC341, APC341, AcPC341 Analog Input Module, Simultaneous Sample & Hold
4d4e PMC482, APC482, AcPC482 Counter Timer Board
524d PMC-DX2001 Reconfigurable FPGA with TTL I/O
5335 PMC-SX35 Reconfigurable Virtex-4 FPGA with plug-in I/O
5456 PMC470 48-Channel Digital Input/Output Module
5601
PMC-VLX85 Reconfigurable Virtex-5 FPGA with plug-in I/O
5602 PMC-VLX110 Reconfigurable Virtex-5 FPGA with plug-in I/O
5603 PMC-VSX95 Reconfigurable Virtex-5 FPGA with plug-in I/O
5604 PMC-VLX155 Reconfigurable Virtex-5 FPGA with plug-in I/O
5605 PMC-VFX70 Reconfigurable Virtex-5 FPGA with plug-in I/O
5606 PMC-VLX155-1M Reconfigurable Virtex-5 FPGA with plug-in I/O
5701 PMC-SLX150: Reconfigurable Spartan-6 FPGA with plug-in I/O
5702 PMC-SLX150-1M: Reconfigurable Spartan-6 FPGA with plug-in I/O
5801 XMC-VLX85 Reconfigurable Virtex-5 FPGA with plug-in I/O

5802 XMC-VLX110 Reconfigurable Virtex-5 FPGA with plug-in I/O
5803 XMC-VSX95 Reconfigurable Virtex-5 FPGA with plug-in I/O
5804 XMC-VLX155 Reconfigurable Virtex-5 FPGA with plug-in I/O
5807 XMC-SLX150: Reconfigurable Spartan-6 FPGA with plug-in I/O
5808 XMC-SLX150-1M: Reconfigurable Spartan-6 FPGA with plug-in I/O
5901 APCe8650 PCI Express IndustryPack Carrier Card
6301 XMC Module with user-configurable
Virtex-6 FPGA, 240k logic cells, SFP front I/O
6302 XMC Module with user-configurable Virtex-6 FPGA, 365k logic cells, SFP front I/O
6303 XMC Module with user-configurable Virtex-6 FPGA, 240k logic cells, no front I/O
6304 XMC Module with user-configurable Virtex-6 FPGA, 365k logic cells, no front I/O
7000 XMC-7K325F: User-configurable Kintex-7 FPGA, 325k logic cells plus SFP front I/O
7001 XMC-7K410F: User-configurable Kintex-7 FPGA, 410k logic cells plus SFP front I/O
7002 XMC-7K325AX: User-Configurable Kintex-7 FPGA, 325k logic cells with AXM Plug-In I/O
7003 XMC-7K410AX: User-Configurable Kintex-7 FPGA, 410k logic cells with AXM Plug-In I/O
7004 XMC-7K325CC: User-Configurable Kintex-7 FPGA, 325k logic cells, conduction-cooled
7005 XMC-7K410CC: User-Configurable Kintex-7 FPGA, 410k logic cells, conduction-cooled
7006 XMC-7A200: User-Configurable Artix-7 FPGA, 200k logic cells with Plug-In I/O
7007 XMC-7A200CC: User-Configurable Conduction-Cooled Artix-7 FPGA, with
200k logic cells
7011 AP440-1: 32-Channel Isolated Digital Input Module
7012 AP440-2: 32-Channel Isolated Digital Input Module
7013 AP440-3: 32-Channel Isolated Digital Input Module
7014 AP445: 32-Channel Isolated Digital Output Module
7015 AP471 48-Channel TTL Level Digital Input/Output Module
7016 AP470 48-Channel TTL Level Digital Input/Output Module
7017 AP323 16-bit, 20 or 40 Channel Analog Input Module
7018 AP408: 32-Channel Digital I/O Module
7019 AP341 14-bit, 16-Channel Simultaneous Conversion Analog Input Module
701a AP220-16 12-Bit, 16-Channel Analog Output Module
701b AP231-16 16-Bit, 16-Channel Analog Output Module
701c AP225 12-Bit, 16-Channel Analog Output Module with Waveform Memory
701d AP235 16-Bit, 16-Channel Analog Output Module with Waveform Memory
7021 APA7-201 Reconfigurable Artix-7 FPGA module 48 TTL channels
7022 APA7-202 Reconfigurable Artix-7 FPGA module 24 RS485 channels
7023 APA7-203 Reconfigurable Artix-7 FPGA module 24
TTL & 12 RS485 channels
7024 APA7-204 Reconfigurable Artix-7 FPGA module 24 LVDS channels
7027 AP418 16-Channel High Voltage Digital Input/Output Module
7029 AP342 14-bit, 12-Channel Isolated Simultaneous Conversion Analog Input Module
702a AP226 12-Bit, 8-Channel Isolated Analog Output Module
702b AP236 16-Bit, 8-Channel Isolated Analog Output Module
7031 AP441-1: 32-Channel Isolated Digital Input Module
7032 AP441-2: 32-Channel Isolated Digital Input Module
7033 AP441-3: 32-Channel Isolated Digital Input Module
7042 AP482 Counter Timer Module with TTL Level Input/Output
7043 AP483 Counter Timer Module with TTL Level and RS422 Input/Output
7044 AP484 Counter Timer Module with RS422 Input/Output

7051 APA7-501 Reconfigurable Artix-7 52,160 Cell FPGA module 48 TTL channels
7052 APA7-502 Reconfigurable Artix-7 52,160 Cell FPGA module 24 RS485 channels
7053 APA7-503 Reconfigurable Artix-7 52,160 Cell FPGA module 24 TTL & 12 RS485 channels
7054 APA7-504 Reconfigurable
Artix-7 52,160 Cell FPGA module 24 LVDS channels
16da Advantech Co., Ltd.
0011 INES GPIB-PCI
16df PIKA Technologies Inc.
16e2 Geotest-MTS
16e3 European Space Agency
1e0f LEON2FT Processor
16e5 Intellon Corp.
6000 INT6000 Ethernet-to-Powerline Bridge [HomePlug AV]
6300 INT6300 Ethernet-to-Powerline Bridge [HomePlug AV]
16ec U.S. Robotics
00ed USR997900
0116 USR997902 10/100/1000 Mbps PCI Network Card
2f00 USR5660A (USR265660A, USR5660A-BP) 56K PCI Faxmodem
3685 Wireless Access PCI Adapter Model 022415
4320 USR997904 10/100/1000 64-bit NIC (Marvell Yukon)
ab06 USR997901A 10/100 Cardbus NIC
16ed Sycron N. V.
1001 UMIO communication card
16f2 ETAS GmbH
0200 I/O board
16f2 0010 ES53xx I/O board
16f3 Jetway Information Co., Ltd.
16f4 Vweb Corp
8000 VW2010
16f6 VideoTele.com, Inc.
1702 Internet Machines Corporation (IMC)
1705 Digital First, Inc.
170b NetOctave
0100 NSP2000-SSL crypto accelerator
170c YottaYotta Inc.
1719 EZChip Technologies
1000
NPA Access Network Processor Family
Seems to be a 2nd ID for Vitesse Semiconductor
1725 Vitesse Semiconductor
7174 VSC7174 PCI/PCI-X Serial ATA Host Bus Controller
172a Accelerated Encryption
13c8 AEP SureWare Runner 1000V3
nee Fujitsu Siemens Computers GmbH
1734 Fujitsu Technology Solutions
1735 Aten International Co. Ltd.
1737 Linksys
0029 WPG54G ver. 4 PCI Card

1032 Gigabit Network Adapter
1737 0015 EG1032 v2 Instant Gigabit Network Adapter
1737 0024 EG1032 v3 Instant Gigabit Network Adapter
1064 Gigabit Network Adapter
1737 0016 EG1064 v2 Instant Gigabit Network Adapter
ab08 21x4x DEC-Tulip compatible 10/100 Ethernet
ab09 21x4x DEC-Tulip compatible 10/100 Ethernet
173b Altima (nee Broadcom)
03e8 AC1000 Gigabit Ethernet
03e9 AC1001 Gigabit Ethernet
03ea AC9100 Gigabit Ethernet
173b 0001 AC1002
03eb AC1003 Gigabit Ethernet
1743 Peppercon AG
8139 ROL/F-100 Fast Ethernet Adapter with ROL
1745 ViXS Systems, Inc.
2020 XCode II Series
2100
XCode 2100 Series
1749 RLX Technologies
174b PC Partner Limited / Sapphire Technology
174d WellX Telecom SA
175c AudioScience Inc
175e Sanera Systems, Inc.
1760 TEDIA spol. s r. o.
0101 PCD-7004 Digital Bi-Directional Ports PCI Card
0102 PCD-7104 Digital Input & Output PCI Card
0121 PCT-7303A PC card with IRC counters
0122 PCT-7408A PC card with counters and timers
0123 PCT-7424 PCI card with standard counters
0214 PCT-7424C (F0) PC card with standard counters
0215 PCT-7424C (F1) PC card with standard counters
0216 PCT-7424E (F0) PC card with standard counters
0217 PCT-7424E (F1) PC card with standard counters
0303 PCD-7006C Digital Input & Output PCI Card
ff00 CTU CAN FD PCIe Card
1761 Pickering Interfaces Ltd
1771 InnoVISION Multimedia Ltd.
1775 General Electric
177d Cavium, Inc.
0001 Nitrox XL N1
0003 Nitrox XL N1 Lite
0004 Octeon (and older) FIPS
0005 Octeon CN38XX Network Processor Pass 3.x
0006 RoHS
0010 Nitrox XL NPX
0020

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 Octeon CN31XX Network Processor
0030  Octeon CN30XX Network Processor
0040  Octeon CN58XX Network Processor
0050  Octeon CN57XX Network Processor (CN54XX/CN55XX/CN56XX)
0070  Octeon CN50XX Network Processor
0080  Octeon CN52XX Network Processor
0090  Octeon II CN63XX Network Processor
0091  Octeon II CN68XX Network Processor
0092  Octeon II CN65XX Network Processor
0093  Octeon II CN61XX Network Processor
0094  Octeon Fusion CNF71XX Cell processor
0095  Octeon III CN78XX Network Processor
0096  Octeon III CN70XX Network Processor
9700  Octeon III CN73XX Network Processor
9702  CN23XX [LiquidIO II] Intelligent Adapter
 177d 0003  CN2350 [LiquidIO II] 2-port 10GbE Intelligent adapter
# This was changed during the production phase to 10GbE adapter.
 177d 0004  CN2350 [LiquidIO II] 2-port 10GbE Intelligent adapter
 177d 0005  CN2360 [LiquidIO II] 2-port 10GbE Intelligent adapter
 177d 0006  CN2360 [LiquidIO II] 2-port 25GbE Intelligent adapter
 177d 0007  CN2350 [LiquidIO
II] 2-port 25GbE Intelligent adapter
 177d 0008  CN2350 [LiquidIO II] 2-port 10GbE SFP+ Intelligent adapter
 177d 0009  CN2360 [LiquidIO II] 2-port 10GbE SFP+ Intelligent adapter
 177d 000a  CN2350 [LiquidIO II] 2-port 10GBASE-T Intelligent adapter
 177d 000b  CN2360 [LiquidIO II] 2-port 10GBASE-T Intelligent adapter
9703  CN23XX [LiquidIO II] NVMe Controller
9712  CN23XX [LiquidIO II] SRIOV Virtual Function
 177d 0003  CN2350 [LiquidIO II] 2-port 10GbE SRIOV Virtual Function
 177d 0004  CN2350 [LiquidIO II] 2-port 10GbE SRIOV Virtual Function
 177d 0005  CN2360 [LiquidIO II] 2-port 10GbE SRIOV Virtual Function
 177d 0006  CN2360 [LiquidIO II] 2-port 25GbE SRIOV Virtual Function
 177d 0007  CN2350 [LiquidIO II] 2-port 25GbE SRIOV Virtual Function
9713  CN23XX [LiquidIO II] NVMe SRIOV Virtual Function
9800  Octeon Fusion CNF75XX Processor
a001  ThunderX MRML(Master RML Bridge to RSL devices)
a002  THUNDERX PCC Bridge
 177d a102  CN88XX PCC Bridge
a008  THUNDERX SMMU
 177d
a108  CN88XX SMMU
a009  THUNDERX Generic Interrupt Controller
a00a  THUNDERX GPIO Controller
a00b  THUNDERX MPI / SPI Controller
a00c  THUNDERX MIO-PTP Controller
a00d  THUNDERX MIX Network Controller
a00e  THUNDERX Reset Controller
a00f  THUNDERX UART Controller
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a010 THUNDERX eMMC/SD Controller
a011 THUNDERX MIO-BOOT Controller
a012 THUNDERX TWSI / I2C Controller
a013 THUNDERX CCPI (Multi-node connect)
a014 THUNDERX Voltage Regulator Module
a015 THUNDERX PCIe Switch Logic Interface
a016 THUNDERX Key Memory
a017 THUNDERX GTI (Global System Timers)
a018 THUNDERX Random Number Generator
a019 THUNDERX DFA
a01a THUNDERX Zip Coprocessor
a01b THUNDERX xHCI USB Controller
a01c THUNDERX AHCI SATA Controller
177d a11c CN88XX AHCI SATA Controller
a01d THUNDERX RAID Coprocessor
a01e THUNDERX Network Interface Controller
a01f THUNDERX Traffic Network Switch
a020 THUNDERX PEM (PCI Express Interface)
a021 THUNDERX L2C (Level-2 Cache Controller)
a022
THUNDERX LMC (DRAM Controller)
a023 THUNDERX OCLA (On-Chip Logic Analyzer)
a024 THUNDERX OSM
a025 THUNDERX GSER (General Serializer/Deserializer)
a026 THUNDERX BGX (Common Ethernet Interface)
a027 THUNDERX IOBN
a029 THUNDERX NCSI (Network Controller Sideband Interface)
a02a ThunderX SGPIO (Serial GPIO controller for SATA disk lights)
a02b THUNDERX SMI / MDIO Controller
a02c THUNDERX DAP (Debug Access Port)
a02d THUNDERX PCIERC (PCIe Root Complex)
a02e ThunderX L2C-TAD (Level 2 cache tag and data)
a02f THUNDERX L2C-CBC
a030 THUNDERX L2C-MCI
a031 THUNDERX MIO-FUS (Fuse Access Controller)
a032 THUNDERX FUSF (Fuse Controller)
a033 THUNDERX Random Number Generator virtual function
a034 THUNDERX Network Interface Controller virtual function
a035 THUNDERX Parallel Bus
a036 ThunderX RAD (RAID acceleration engine) virtual function
a037 THUNDERX ZIP virtual function
a040 THUNDERX CPT Cryptographic Accelerator
a100 THUNDERX CN88XX 48 core SoC
a200
OCTEON TX CN81XX/CN80XX
a300 OCTEON TX CN83XX
af00 CN99xx [ThunderX2] Integrated PCI Host bridge
af84 CN99xx [ThunderX2] Integrated PCI Express RP Bridge

1787 Hightech Information System Ltd.
1789 Ennyah Technologies Corp.
also used by Struck Innovative Systeme for joint developments
1796 Research Centre Juelich
 0001 SIS1100 [Gigabit link]
 0002 HOTlink
 0003 Counter Timer
 0004 CAMAC Controller
 0005 PROFIBUS
 0006 AMCC HOTlink
 0007 LVD Cable Bus
 0008 100MHz, 64bit Sequence Generator based on VirtexII
 0009 double 14bit-ADC
 000a SIS1100 with N110 TDC
 000b double 14bit-ADC with memory
 000d Synchronisation Slave
 000e SIS1100-eCMC
 000f TDC (GPX)
 0010 PCIe Counter Timer
 0011 SIS1100-e single link
 0012 SIS1100-e quad link
 0013 4x2.5GHz SFP to 4 lane PCIe bridge
 0014 SIS1100 with GPX piggy back
 0015 SIS8100 [Gigabit link, MicroTCA]
 0016 SIS1100e with 4 lanes
 0017 Quad 14bit, 50MHz ADC with 2.5GHz SFP
 0018 SIS8300 4-lane PCI Express, Micro
 TCA for Physics ADC
 0019 SIS SIS8300-Lx MTCA.4 Digitizer
 001a 100MHz, 64bit Sequence Generator based on VirtexII
 001c Quad 16bit, 150MHz ADC with 2.5GHz SFP
 0030 100MHz, 64bit Sequence Generator based on Spartan6
 0031 200MHz 64bit Sequence Generator based on Spartan7
nee Techwell, Inc.
1797 Intersil Techwell
 5864 TW5864 multimedia video controller
 6801 TW6802 multimedia video card
 6802 TW6802 multimedia other device
 6810 TW6816 multimedia video controller
 6811 TW6816 multimedia video controller
 6812 TW6816 multimedia video controller
 6813 TW6816 multimedia video controller
port 5 of 8
 6814 TW6816 multimedia video controller
port 6 of 8
 6815 TW6816 multimedia video controller
port 7 of 8
 6816 TW6816 multimedia video controller

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# channel 8 of 8
 6817  TW6816 multimedia video controller
# Example MuniPCI-E card: http://www.commell.com.tw/product/surveillance/MPX-6864.htm
 6864  TW6864 multimedia video controller
1799  Belkin
 6001  F5D6001 Wireless
 PCI Card [Realtek RTL8180]
 6020  F5D6020 v3000 Wireless PCMCIA Card [Realtek RTL8180]
 6060  F5D6060 Wireless PDA Card
 700f  F5D7000 v7000 Wireless G Desktop Card [Realtek RTL8185]
 701f  F5D7010 v7000 Wireless G Notebook Card [Realtek RTL8185]
179a  id Quantique
 0001  Quantis PCI 16Mbps
179c  Data Patterns
 0557  DP-PCI-557 [PCI 1553B]
 0566  DP-PCI-566 [Intelligent PCI 1553B]
 1152  DP-cPCI-1152 (8-channel Isolated ADC Module)
 5031  DP-CPCI-5031-Synchro Module
# cPCI Carrier for Mezzanine Modules
 5112  DP-cPCI-5112 [MM-Carrier]
 5121  DP-CPCI-5121-IP Carrier
 5211  DP-CPCI-5211-IP Carrier
 5679  AGE Display Module
17a0  Genesys Logic, Inc
 7163  GL9701 PCIe to PCI Bridge
 8083  GL880 USB 1.1 UHCI controller
 8084  GL880 USB 2.0 EHCI controller
 9750  GL9750 SD Host Controller
17aa  Lenovo
 402b  Intel 82599ES 10Gb 2-port Server Adapter X520-2
17ab  Phillips Components
17af  Hightech Information System Ltd.
17b3  Hawking Technologies
 ab08  PN672TX 10/100 Ethernet
17b4  Indra Networks,
 Inc.
 0011  WebEnhance 100 GZIP Compression Card
 0012  WebEnhance 200 GZIP Compression Card
 0015  WebEnhance 300 GZIP Compression Card
 0016  StorCompress 300 GZIP Compression Card
 0017  StorSecure 300 GZIP Compression and AES Encryption Card
17c0  Wistron Corp.
17c2  Newisys, Inc.
# nee Airgo Networks, Inc.
17cb  Qualcomm
 0001  AGN100 802.11 a/b/g True MIMO Wireless Card
  1385 5c00  WGM511 Pre-N 802.11g Wireless CardBus Adapter
  1737 0045  WMP54GX v1 802.11g Wireless-G PCI Adapter with SRX
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0002 AGN300 802.11 a/b/g True MIMO Wireless Card
1385 6d00 WPNT511 RangeMax 240 Mbps Wireless CardBus Adapter
1737 0054 WPC54GX4 v1 802.11g Wireless-G Notebook Adapter with SRX400
0400 Datacenter Technologies QDF2432 PCI Express Root Port
0401 Datacenter Technologies QDF2400 PCI Express Root Port
17cc NetChip Technology, Inc
2280 USB 2.0
17cd Cadence Design Systems, Inc.
17cf Z-Com, Inc.
17d3 Areca Technology Corp.
1110 ARC-1110 4-Port PCI-X to SATA RAID Controller
1120
ARC-1120 8-Port PCI-X to SATA RAID Controller
1130 ARC-1130 12-Port PCI-X to SATA RAID Controller
1160 ARC-1160 16-Port PCI-X to SATA RAID Controller
1170 ARC-1170 24-Port PCI-X to SATA RAID Controller
1201 ARC-1200 2-Port PCI-Express to SATA II RAID Controller
1203 ARC-1203 2/4/8 Port PCIe 2.0 to SATA 6Gb RAID Controller
1210 ARC-1210 4-Port PCI-Express to SATA RAID Controller
1214 ARC-12x4 PCIe 2.0 to SAS/SATA 6Gb RAID Controller
17d3 1214 ARC-1214 4-Port PCIe 2.0 to SAS/SATA 6Gb RAID Controller
17d3 1224 ARC-1224 8-Port PCIe 2.0 to SAS/SATA 6Gb RAID Controller
17d3 1264 ARC-1264 12/16 Port PCIe 2.0 to SATA 6Gb RAID Controller
17d3 1284 ARC-1284 24 Port PCIe 2.0 to SATA 6Gb RAID Controller
1220 ARC-1220 8-Port PCI-Express to SATA RAID Controller
1222 ARC-1222 8-Port PCI-Express to SAS/SATA II RAID Controller
1230 ARC-1230 12-Port PCI-Express to SATA RAID Controller
1260 ARC-1260 16-Port PCI-Express to SATA RAID Controller
1280 ARC-1280/1280ML
24-Port PCI-Express to SATA II RAID Controller
17d3 1221 ARC-1221 8-Port PCI-Express to SATA RAID Controller
1300 ARC-1300ix-16 16-Port PCI-Express to SAS Non-RAID Host Adapter
1320 ARC-1320 8/16 Port PCIe 2.0 to SAS/SATA 6Gb Non-RAID Host Adapter
1330 ARC-1330 16 Port PCIe 3.0 to SAS/SATA 12Gb Non-RAID Host Adapter
1680 ARC-1680 series PCIe to SAS/SATA 3Gb RAID Controller
17d3 1212 ARC-1212 4-Port PCIe to SAS/SATA II RAID Controller
17d3 1222 ARC-1222 8-Port PCIe to SAS/SATA 3Gb RAID Controller
17d3 1680 ARC-1680 8/12/16/24 Port PCIe to SAS/SATA 3Gb RAID Controller
1880 ARC-188x series PCIe 2.0/3.0 to SAS/SATA 6/12Gb RAID Controller
17d3 1213 ARC-1213 4-Port PCIe 2.0 to SAS/SATA 6Gb RAID Controller
17d3 1215 ARC-1215 4-Port PCIe 3.0 to SAS/SATA 6Gb RAID Controller
17d3 1216 ARC-1216 4-Port PCIe 3.0 to SAS/SATA 12Gb RAID Controller
17d3 1223 ARC-1223 8-Port PCIe 2.0 to SAS/SATA 6Gb RAID Controller
17d3 1225 ARC-1225 8-Port PCIe 3.0 to SAS/SATA 6Gb
RAID Controller
17d3 1226 ARC-1226 8-Port PCIe 3.0 to SAS/SATA 12Gb RAID Controller
17d3 1880 ARC-1880 8/12/16/24 Port PCIe 2.0 to SAS/SATA 6Gb RAID Controller
17d3 1882 ARC-1882 8/12/16/24 Port PCIe 3.0 to SAS/SATA 6Gb RAID Controller

17d3 1883 ARC-1883 8/12/16/24 Port PCIe 3.0 to SAS/SATA 12Gb RAID Controller
1884 ARC-1884 series PCIe 3.0 to SAS/SATA 12/6Gb RAID Controller
188a ARC-1886 series PCIe 4.0 to NVMe/SAS/SATA 16/12/6Gb RAID Controller
nee Neterion Inc., previously S2io Inc.
17d5 Exar Corp.
5731 Xframe 10-Gigabit Ethernet PCI-X
5732 Xframe II 10-Gigabit Ethernet PCI-X 2.0
5831 Xframe 10-Gigabit Ethernet PCI-X
103c 12d5 PCI-X 133MHz 10GbE SR Fiber
10a9 8020 Single Port 10-Gigabit Ethernet (PCI-X, Fiber)
10a9 8024 Single Port 10-Gigabit Ethernet (PCI-X, Fiber)
5832 Xframe II 10-Gigabit Ethernet PCI-X 2.0
103c 1337 PCI-X 266MHz 10GigE SR [AD385A]
10a9 8021 Single Port 10-Gigabit Ethernet II (PCI-X, Fiber)
17d5 6020 Xframe II SR
17d5
6021 Xframe II SR, Low Profile
17d5 6022 Xframe E SR
17d5 6420 Xframe II LR
17d5 6421 Xframe II LR, Low Profile
17d5 6422 Xframe E LR
17d5 6c20 Xframe II CX4
17d5 6c21 Xframe II CX4, Low Profile
17d5 6c22 Xframe E CX4
5833 X3100 Series 10 Gigabit Ethernet PCIe
17d5 6030 X3110 Single Port SR
17d5 6031 X3120 Dual Port SR
17d5 6430 X3110 Single Port LR
17d5 6431 X3120 Dual Port LR
17d5 7030 X3110 Single Port LRM
17d5 7031 X3120 Dual Port LRM
17d5 7430 X3110 Single Port 10GBase-T
17d5 7431 X3120 Dual Port 10GBase-T
17d5 7830 X3110 Single Port 10GBase-CR
17d5 7831 X3120 Dual Port 10GBase-CR
17db Cray Inc
0101 XT Series [Seastar] 3D Toroidal Router
17de KWorld Computer Co. Ltd.
17df Dini Group
1864 Virtex4 PCI Board w/ QL5064 Bridge [DN7000K10PCI/DN8000K10PCI/DN8000K10PSX/NOTUS]
1865 Virtex4 ASIC Emulator [DN8000K10PCIe]
1866 Virtex4 ASIC Emulator Cable Connection [DN8000K10PCI]
1867 Virtex4 ASIC Emulator Cable Connection
[DN8000K10PCIe]
1868 Virtex4 ASIC Emulator [DN8000K10PCIe-8]
1900 Virtex5 PCIe ASIC Emulator
[DN9000K10PCIe8T/DN9002K10PCIe8T/DN9200K10PCIe8T/DN7006K10PCIe8T/DN7406K10PCIe8T]
1901 Virtex5 PCIe ASIC Emulator Large BARs

[DN9000K10PCIe8T/DN9002K10PCIe8T/DN9200K10PCIe8T/DN7006K10PCIe8T/DN7406K10PCIe8T]
1902 Virtex5 PCIe ASIC Emulator Low Power [Interceptor]
1903 Spartan6 PCIe FPGA Accelerator Board [DNBFCS12PCIe]
1904 Virtex6 PCIe ASIC Emulation Board [DNDUALV6_PCIe4]
1905 Virtex6 PCIe ASIC Emulation Board [DNV6F6PCIe]
1906 Virtex6 PCIe ASIC Emulation Board [DN2076K10]
1907 Virtex6 PCIe ASIC Emulation Board [DNV6F2PCIe]
1908 Virtex6 PCIe ASIC Emulation Board Large BARs[DNV6F2PCIe]
1909 Kintex7 PCIe FPGA Accelerator Board [DNK7F5PCIe]
190a Virtex7 PCIe ASIC Emulation Board [DNV7F1A]
190b Stratix5 PCIe ASIC Emulation Board [DNS5GXF2]
190c Virtex7 PCIe ASIC Emulation Board [DNV7F2A]
190d Virtex7 PCIe ASIC Emulation Board [DNV7F4A]
190e Virtex7 PCIe ASIC Emulation
Board [DNV7F2B]
190f KintexUS PCIe MainRef Design [DNPCIE_40G_KU_LL]
1910 VirtexUS ASIC Emulation Board [DNVUF4A]
1911 VirtexUS PCIe ASIC Emulation Board [DNVU_F2PCIe]
1912 KintexUS PCIe MainRef Design [DNPCIe_40G_KU_LL_QSFP]
1913 VirtexUS ASIC Emulation Board [DNVUF1A]
1914 VirtexUS ASIC Emulation Board [DNVUF2A]
1915 Arria10 PCIe MainRef Design [DNPCIe_80G_A10_LL]
1916 VirtexUS PCIe Accelerator Board [DNVUF2_HPC_PCIe]
1917 UltrascalePlus PCIe Accelerator Board [DNPCIe_400G_VU_LL]
1918 VirtexUS+ ASIC Emulation Board [DNVUPF4A]
1919 UltrascalePlus PCIe Accelerator Board [DNPCIe_400G_VUP_HBM_LL]
1a00 Virtex6 PCIe DMA Netlist Design
1a01 Virtex6 PCIe Darklite Design [DNPCIe_HXT_10G_LL]
1a02 Virtex7 PCIe DMA Netlist Design
1a03 Kintex7 PCIe Darklite Design [DNPCIe_K7_10G_LL]
1a05 Stratix5 PCIe Darklite Design [DNS5GX_F2]
1a06 VirtexUS PCIe DMA Netlist Design
1a07 KintexUS PCIe Darklite Design [DNPCIe_40G_KU_LL]
1a08 KintexUS PCIe Darklite Design [DNPCIe_40G_KU_LL_QSFP]
1a09
Arria10 PCIe Darklite Design [DNPCIe_80G_A10_LL]
1a0a VirtexUS PCIe Darklite Design [DNVUF2_HPC_PCIe]
1a0b UltrascalePlus PCIe Darklite Design [DNPCIe_400G_VU_LL]
1a0c KintexUS PCIe DRAM Packet Capture Design [DNPCIe_40G_KU_LL]
1a0d KintexUS PCIe DRAM Packet Capture Design [DNPCIe_40G_KU_LL_2QSFP]
1a0e UltrascalePlus PCIe Darklite Design [DNPCIe_400G_VUP_HBM_LL]
17e4 Sectra AB
0001 KK671 Cardbus encryption board
0002 KK672 Cardbus encryption board
nee Entropic Communications Inc.
17e6 MaxLinear
0010 EN2010 [c.Link] MoCA Network Controller (Coax, PCI interface)
0011 EN2010 [c.Link] MoCA Network Controller (Coax, MPEG interface)

0021 EN2210 [c.Link] MoCA Network Controller (Coax)
0025 EN2510 [c.Link] MoCA Network Controller (Coax, PCIe interface)
0027 EN2710 [c.Link] MoCA 2.0 Network Controller (Coax, PCIe interface)
3700 MoCA 2.0 Network Controller (Coax, PCIe interface)
3710 MoCA 2.5 Network Controller (Coax, PCIe interface)
17ee
Connect Components Ltd
17f2 Albatron Corp.
17f3 RDC Semiconductor, Inc.
1010 R1010 IDE Controller
1011 R1011 IDE Controller
1012 R1012 IDE Controller
1031 PCI/PCI-X to PCI-E Bridge
2012 M2012/R3308 VGA-compatible graphics adapter
6020 R6020 North Bridge
6021 R6021 Host Bridge
6030 R6030 ISA Bridge
6031 R6031 ISA Bridge
6040 R6040 MAC Controller
6060 R6060 USB 1.1 Controller
6061 R6061 USB 2.0 Controller
17f7 Topdek Semiconductor Inc.
17f9 Gemtek Technology Co., Ltd
17fc IOGEAR, Inc.
17fe InProComm Inc.
2120 IPN 2120 802.11b
1737 0020 WMP11 v4 802.11b Wireless-B PCI Adapter
2220 IPN 2220 802.11g
1468 0305 T60N871 802.11g Mini PCI Wireless Adapter
1737 0029 WPC54G v4 802.11g Wireless-G Notebook Adapter
17ff Benq Corporation
1800 Qualcore Logic Inc.
1100 Nanospeed Trading Gateway
1803 ProdaSafe GmbH
1804 Ralink corp. (wrong ID)
3060 RT3060 Wireless 802.11n 1T/1R
1805 Euresys S.A.
1809 Lumanate, Inc.
180c IEI Integration Corp
1813
Ambient Technologies Inc
4000 HaM controllerless modem
16be 0001 V9x HAM Data Fax Modem
4100 HaM plus Data Fax Modem
16be 0002 V9x HAM 1394
1814 Ralink corp.
0101 Wireless PCI Adapter RT2400 / RT2460
1043 0127 WiFi-b add-on Card

1371 0010 Minitar MNW2BPCI Wireless PCI Card
1462 6828 PC11B2 (MS-6828) Wireless 11b PCI Card
0200 RT2500 802.11g PCI [PC54G2]
0201 RT2500 Wireless 802.11bg
1043 130f WL-130g
1186 3c00 DWL-G650X Wireless 11g CardBus Adapter
1371 001e CWC-854 Wireless-G CardBus Adapter
1371 001f CWM-854 Wireless-G Mini PCI Adapter
1371 0020 CWP-854 Wireless-G PCI Adapter
1458 e381 GN-WMKG 802.11b/g Wireless CardBus Adapter
1458 e931 GN-WIKG 802.11b/g mini-PCI Adapter
1462 6833 Unknown 802.11g mini-PCI Adapter
1462 6835 Wireless 11G CardBus CB54G2
1737 0032 WMP54G v4.0 PCI Adapter
1799 700a F5D7000 v2000/v3000 Wireless G Desktop Card
1799 701a F5D7010 v2000/v3000 Wireless G Notebook Card
1814 2560 RT2500 Wireless
802.11bg
182d 9073 WL-115 Wireless Network PCI Adapter
185f 22a0 CN-WF513 Wireless Cardbus Adapter
18eb 5312 WL531P IEEE 802.11g PCI Card-EU
1948 3c00 C54RC v1 Wireless 11g CardBus Adapter
1948 3c01 C54Ri v1 Wireless 11g PCI Adapter
0300 Wireless Adapter Canyon CN-WF511
0301 RT2561/RT61 802.11g PCI
1186 3c08 AirPlus G DWL-G630 Wireless Cardbus Adapter (rev.E1)
1186 3c09 DWL-G510 Rev C
13d1 abe3 miniPCI Pluscom 802.11 a/b/g
1458 e933 GN-WI01GS
1458 e934 GN-WP01GS
1462 b833 MP54G5 (MS-6833B)
1737 0055 WMP54G v4.1
1799 700e F5D7000 v6000 Wireless G Desktop Card
1799 701e F5D7010 v6000 Wireless G Notebook Card
17f9 0012 AWLC3026T 802.11g Wireless CardBus Adapter
1814 2561 EW-7108PCg/EW-7128g
0302 RT2561/RT61 rev B 802.11g
1186 3a71 DWA-510 Wireless G Desktop Adapter
1186 3c08 AirPlus G DWL-G630 Wireless Cardbus Adapter (rev.E2)
1186 3c09 AirPlus G DWL-G510 Wireless Network Adapter (Rev.C)
1462 b834 PC54G3 Wireless 11g PCI Card
1948
3c23 C54RC v2 Wireless 11g CardBus Adapter
1948 3c24 C54Ri v2 Wireless 11g PCI Adapter
0401 RT2600 802.11 MIMO
1737 0052 WPC54GR v1 802.11g Wireless-G Notebook Adapter with RangeBooster
17f9 0011 WPCR-137G 802.11bg Wireless CardBus Adapter
17f9 0016 WPIR-119GH 802.11bg Wireless Desktop Adapter

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0601  RT2800 802.11n PCI
	1799 801c  F5D8011 v3 802.11n N1 Wireless Notebook Card
	187e 3412  NWD-310N 802.11n Wireless PCI Adapter
0681  RT2890 Wireless 802.11n PCIe
	1458 e939  GN-WS30N-RH 802.11bgn Mini PCIe Card
0701  RT2760 Wireless 802.11n 1T/2R
	1737 0074  WMP110 v2 802.11n RangePlus Wireless PCI Adapter
0781  RT2790 Wireless 802.11n 1T/2R PCIe
	1814 2790  RT2790 Wireless 802.11n 1T/2R PCIe
3060  RT3060 Wireless 802.11n 1T/1R
	1186 3c04  DWA-525 Wireless N 150 Desktop Adapter (rev.A1)
3062  RT3062 Wireless 802.11n 2T/2R
3090  RT3090 Wireless 802.11n 1T/1R PCIe
	13bd 1057  GN-WS32L-RH Half-size Mini PCIe Card
3091  RT3091 Wireless 802.11n 1T/2R PCIe
3092
	RT3092 Wireless 802.11n 2T/2R PCIe
3290  RT3290 Wireless 802.11n 1T/1R PCIe
	103c 18ec  Ralink RT3290LE 802.11bgn 1x1 Wi-Fi and Bluetooth 4.0 Combo Adapter
3298  RT3290 Bluetooth
	103c 18ec  Ralink RT3290LE 802.11bgn 1x1 Wi-Fi and Bluetooth 4.0 Combo Adapter
3592  RT3592 Wireless 802.11abgn 2T/2R PCIe
359f  RT3592 PCIe Wireless Network Adapter
5360  RT5360 Wireless 802.11n 1T/1R
	1186 3c05  DWA-525 Wireless N 150 Desktop Adapter (rev.A2)
	20f4 703a  TEW-703PI N150 Wireless PCI Adapter
5362  RT5362 PCI 802.11n Wireless Network Adapter
5390  RT5390 Wireless 802.11n 1T/1R PCIe
	103c 1636  U98Z077.00 Half-size Mini PCIe Card
5392  RT5392 PCIe Wireless Network Adapter
539b  RT5390R 802.11bgn PCIe Wireless Network Adapter
539f  RT5390 [802.11 b/g/n 1T1R G-band PCI Express Single Chip]
	103c 1637  Pavilion DM1Z-3000 PCIe wireless card
5592  RT5592 PCIe Wireless Network Adapter
e932  RT2560F 802.11 b/g PCI
1815  Devolo AG
1820  InfiniCon Systems Inc.
1822  Twinhan Technology
	Co. Ltd
	4e35  Mantis DTV PCI Bridge Controller [Ver 1.0]
182d  SiteCom Europe BV
# HFC-based ISDN card
	3069  ISDN PCI DC-105V2
	9790  WL-121 Wireless Network Adapter 100g+ [Ver.3]
182e  Raza Microelectronics, Inc.
	0008  XLR516 Processor
# Strange vendor ID used by BCM5785 when in RAID mode
182f  Broadcom
```

HT1000 uses 3 IDs 1166:024a (Native SATA Mode), 1166:024b (PATA/IDE Mode), 182f:000b (RAID Mode) depends on SATA BIOS setting
 000b BCM5785 [HT1000] SATA (RAID Mode)
1830 Credence Systems Corporation
 8000 CPIn
 8001 CPId
 8002 CPIx
 8003 CPIq
183b MikroM GmbH
 08a7 MVC100 DVI
 08a8 MVC101 SDI
 08a9 MVC102 DVI+Audio
 08b0 MVC200-DC
1846 Alcatel-Lucent
1849 ASRock Incorporation
184a Thales Computers
 1100 MAX II cPLD
1850 Advantest Corporation
 0048 EK220-66401 Computer Interface Card
1851 Microtune, Inc.
1852 Anritsu Corp.
1853 SMSC Automotive Infotainment System Group
1854 LG Electronics, Inc.
185b Compro Technology, Inc.
 1489 VideoMate Vista T100
185f
  Wistron NeWeb Corp.
1864 SilverBack
 2110 ISNAP 2110
1867 Topspin Communications
 5a44 MT23108 InfiniHost HCA
 5a45 MT23108 InfiniHost HCA flash recovery
 5a46 MT23108 InfiniHost HCA bridge
 6278 MT25208 InfiniHost III Ex (Tavor compatibility mode)
 6282 MT25208 InfiniHost III Ex
186c Humusoft, s.r.o.
 0612 AD612 Data Acquisition Device
 0614 MF614 Multifunction I/O Card
 0622 AD622 Data Acquisition Device
 0624 MF624 Multifunction I/O PCI Card
 0625 MF625 3-phase Motor Driver
 0634 MF634 Multifunction I/O PCIe Card
 0644 MF644 Multifunction I/O Thb Card
186f WiNRADiO Communications
1876 L-3 Communications
 a101 VigraWATCH PCI
 a102 VigraWATCH PMC
 a103 Vigra I/O

187e ZyXEL Communications Corporation
3403 ZyAir G-110 802.11g
340e M-302 802.11g XtremeMIMO
1885 Avvida Systems Inc.
1888 Varisys Ltd
0301 VMFX1 FPGA PMC module
0601 VSM2 dual PMC carrier
0710 VS14x series PowerPC PCI board
0720 VS24x series PowerPC PCI board
188a Ample Communications,
Inc
1890 Egenera, Inc.
1894 KNC One
1896 B&B Electronics Manufacturing Company, Inc.
4202 MIport 3PCIU2 2-port Serial
4204 MIport 3PCIU4 4-port Serial
4208 MIport 3PCIU8 8-port Serial
4211 MIport 3PCIOU1 1-port Isolated Serial
4212 MIport 3PCIOU2 2-port Isolated Serial
4214 MIport 3PCIOU4 4-port Isolated Serial
bb10 3PCI2 2-Port Serial
bb11 3PCIO1 1-Port Isolated Serial
1897 AMtek
18a1 Astute Networks Inc.
18a2 Stretch Inc.
0002 VRC6016 16-Channel PCIe DVR Card
18a3 AT&T
18ac DViCO Corporation
d500 FusionHDTV 5
d800 FusionHDTV 3 Gold
d810 FusionHDTV 3 Gold-Q
d820 FusionHDTV 3 Gold-T
db30 FusionHDTV DVB-T Pro
db40 FusionHDTV DVB-T Hybrid
db78 FusionHDTV DVB-T Dual Express
18b8 Ammasso
b001 AMSO 1100 iWARP/RDMA Gigabit Ethernet Coprocessor
formally Info-Tek Corp.
18bc GeCube Technologies, Inc.
18c3 Micronas Semiconductor Holding AG
0720 nGene PCI-Express Multimedia Controller
1461 032e Hybrid M779 PCI-E
Nee Octigabay System
18c8 Cray
Inc
18c9 ARVOO Engineering BV
18ca XGI Technology Inc. (eXtreme Graphics Innovation)
0020 Z7/Z9 (XG20 core)

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 0021  Z9s/Z9m (XG21 core)
 0027  Z11/Z11M
 0040  Volari V3XT/V5/V8
 0047  Volari 8300 (chip: XP10, codename: XG47)
# should be 182d
18d2  Sitecom Europe BV (Wrong ID)
# Sitecom HFC-S based ISDN controller card DC-105v2
 3069  DC-105v2 ISDN controller
18d4  Celestica
18d8  Dialogue Technology Corp.
18dd  Artimi Inc
 4c6f  Artimi RTMI-100 UWB adapter
18df  LeWiz Communications
18e6  MPL AG
 0001  OSCI [Octal Serial Communication Interface]
18eb  Advance Multimedia Internet Technology, Inc.
18ec  Cesnet, z.s.p.o.
 6d05  ML555
  18ec 0100  NIC (ethernet interfaces)
  18ec 0200  NIC (szedata2) 4x1G
  18ec 0201  NIC (szedata2) 2x10G
  18ec 0300  NIFIC (szedata2) 4x1G
  18ec 0302  NIFIC (szedata2) 2x10G
  18ec 4200  Flexible FlowMon (szedata2) 1x10G
  18ec ff00  Testing design
  18ec ff01  Boot design
 c006  COMBO6
  18ec d001  COMBO-4MTX
  18ec d002  COMBO-4SFP
  18ec d003  COMBO-4SFPRO
  18ec
 d004  COMBO-2XFP
 c032  COMBO-LXT110
  18ec 0100  NIC (ethernet interfaces)
  18ec 0200  NIC (szedata2) 4x1G
  18ec 0201  NIC (szedata2) 2x10G
  18ec 0300  NIFIC (szedata2) 4x1G
  18ec 0302  NIFIC (szedata2) 2x10G
  18ec 4200  Flexible FlowMon (szedata2) 1x10G
  18ec ff00  Testing design
  18ec ff01  Boot design
 c045  COMBO6E
 c050  COMBO-PTM
 c058  COMBO6X
  18ec d001  COMBO-4MTX
  18ec d002  COMBO-4SFP
  18ec d003  COMBO-4SFPRO
  18ec d004  COMBO-2XFP
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c132 COMBO-LXT155
18ec 0100 NIC (ethernet interfaces)
18ec 0200 NIC (szedata2) 4x1G
18ec 0201 NIC (szedata2) 2x10G
18ec 0300 NIFIC (szedata2) 4x1G
18ec 0302 NIFIC (szedata2) 2x10G
18ec 4200 Flexible FlowMon (szedata2) 1x10G
18ec ff00 Testing design
18ec ff01 Boot design
c232 COMBO-FXT100
18ec 0100 NIC (ethernet interfaces)
18ec 0200 NIC (szedata2) 4x1G
18ec 0201 NIC (szedata2) 2x10G
18ec 0300 NIFIC (szedata2) 4x1G
18ec 0302 NIFIC (szedata2) 2x10G
18ec 4200 Flexible FlowMon (szedata2)
1x10G
18ec ff00 Testing design
18ec ff01 Boot design
18ee Chenming Mold Ind. Corp.
18f1 Spectrum GmbH
18f4 Napatech A/S
0031 NT20X Network Adapter
0051 NT20X Capture Card
0061 NT20E Capture Card
0064 NT20E Inline Card
0071 NT4E Capture Card
0074 NT4E Inline Card
0081 NT4E 4-port Expansion Card
0091 NT20X Capture Card [New Rev]
00a1 NT4E-STD Capture Card
00a4 NT4E-STD Inline Card
8 x 1 Gbps / 10 Gbps PCIe Optical Bypass Adapter
00b1 NTBPE Optical Bypass Adapter
00c5 NT20E2 Network Adapter 2x10Gb
00d5 NT40E2-4 Network Adapter 4x10Gb
00e5 NT40E2-1 Network Adapter 1x40Gb
4-Port Adapter for 1 GbE In-Line Bypass Applications
00f5 NT4E2-4T-BP Network Adapter 4x1Gb with Electrical Bypass
0105 NT4E2-4-PTP Network Adapter 4x1Gb
0115 NT20E2-PTP Network Adapter 2x10Gb
0125 NT4E2-4-PTP Network Adapter 4x1Gb
0135 NT20E2-PTP Network Adapter 2x10Gb
0145 NT40E3-4-PTP Network Adapter 4x10Gb
0155 NT100E3-1-PTP Network Adapter 1x100Gb
0165
NT80E3-2-PTP Network Adapter 2x40Gb
0175 NT20E3-2-PTP Network Adapter 2x10Gb

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 0185  NT40A01 Network Adapter
 01a5  NT200A01 Network Adapter
 01c5  NT200A02 Network Adapter
18f6  NextIO
 1000  [Nexsis] Switch Virtual P2P PCIe Bridge
 1001  [Texsis] Switch Virtual P2P PCIe Bridge
 1050  [Nexsis] Switch Virtual P2P PCI Bridge
 1051  [Texsis] Switch Virtual P2P PCI Bridge
 2000  [Nexsis] Switch Integrated Mgmt. Endpoint
 2001  [Texsis] Switch Integrated Mgmt. Endpoint
18f7  Commtech, Inc.
 0001  ESCC-PCI-335 Serial PCI Adapter [Fastcom]
 0002  422/4-PCI-335 Serial PCI Adapter [Fastcom]
 0003  232/4-1M-PCI Serial PCI Adapter [Fastcom]
 0004  422/2-PCI-335 Serial PCI Adapter [Fastcom]
 0005  IGESCC-PCI-ISO/1 Serial PCI Adapter [Fastcom]
 000a  232/4-PCI-335 Serial PCI Adapter [Fastcom]
 000b  232/8-PCI-335 Serial PCI Adapter [Fastcom]
 000f  FSCC Serial PCI Adapter [Fastcom]
 0010  GSCC Serial PCI Adapter [Fastcom]
 0011  QSSB Serial PCI Adapter [Fastcom]
 0014  SuperFSCC Serial PCI Adapter
 [Fastcom]
 0015  SuperFSCC-104-LVDS Serial PC/104+ Adapter [Fastcom]
 0016  FSCC-232 RS-232 Serial PCI Adapter [Fastcom]
# Software UARTs
 0017  SuperFSCC-104 Serial PC/104+ Adapter [Fastcom]
# Software UARTs
 0018  SuperFSCC/4 Serial PCI Adapter [Fastcom]
# Software UARTs
 0019  SuperFSCC Serial PCI Adapter [Fastcom]
 001a  SuperFSCC-LVDS Serial PCI Adapter [Fastcom]
# Software UARTs
 001b  FSCC/4 Serial PCI Adapter [Fastcom]
# RS-644 Only
 001c  SuperFSCC/4-LVDS Serial PCI Adapter [Fastcom]
# Software UARTs
 001d  FSCC Serial PCI Adapter [Fastcom]
 001e  SuperFSCC/4 Serial PCIe Adapter [Fastcom]
 001f  SuperFSCC/4 Serial cPCI Adapter [Fastcom]
 0020  422/4-PCIe Serial PCIe Adapter [Fastcom]
 0021  422/8-PCIe Serial PCIe Adapter [Fastcom]
# RS-644 Only
 0022  SuperFSCC/4-LVDS Serial PCIe Adapter [Fastcom]
# Software UARTs
 0023  SuperFSCC/4 Serial cPCI Adapter [Fastcom]
# RS-644 Only, Software UARTs
 0025  SuperFSCC/4-LVDS Serial PCI Adapter [Fastcom]
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# RS-644 Only, Software UARTs
 0026
  SuperFSCC-LVDS Serial PCI Adapter [Fastcom]
# Software UARTs
 0027  FSCC/4 Serial PCIe Adapter [Fastcom]
18fb  Resilience Corporation
1904  Hangzhou Silan Microelectronics Co., Ltd.
 2031  SC92031 PCI Fast Ethernet Adapter
 8139  RTL8139D [Realtek] PCI 10/100BaseTX ethernet adaptor
1905  Micronas USA, Inc.
1912  Renesas Technology Corp.
 0002  SH7780 PCI Controller (PCIC)
 0011  SH7757 PCIe End-Point [PBI]
 0012  SH7757 PCIe-PCI Bridge [PPB]
 0013  SH7757 PCIe Switch [PS]
 0014  uPD720201 USB 3.0 Host Controller
 0015  uPD720202 USB 3.0 Host Controller
 001a  SH7758 PCIe-PCI Bridge [PPB]
 001b  SH7758 PCIe End-Point [PBI]
 001d  SH7758 PCIe Switch [PS]
1919  Soltek Computer Inc.
1923  Sangoma Technologies Corp.
 0040  A200/Remora FXO/FXS Analog AFT card
 0100  A104d QUAD T1/E1 AFT card
 0300  A101 single-port T1/E1
 0400  A104u Quad T1/E1 AFT
1924  Solarflare Communications
 0703  SFC4000 rev A net [Solarstorm]
  10b8 0102  SMC10GPCIe-10BT (A2) [TigerCard]
  10b8 0103  SMC10GPCIe-10BT
 (A3) [TigerCard]
  10b8 0201  SMC10GPCIe-XFP (A1) [TigerCard]
  1924 0101  SFE4001-A1
  1924 0102  SFE4001-A2
  1924 0103  SFE4001-A3
  1924 0201  SFE4002-A1
  1924 0301  SFE4003-A1
  1924 0302  SFE4003-A2
  1924 0303  SFE4003-A3
  1924 0304  SFE4003-A4
  1924 0500  SFE4005-A0
 0710  SFC4000 rev B [Solarstorm]
  10b8 0103  SMC10GPCIe-10BT (A3) [TigerCard]
  10b8 0201  SMC10GPCIe-XFP (A1) [TigerCard]
  1924 0102  SFE4001-A2
  1924 0103  SFE4001-A3
  1924 0201  SFE4002-A1
  1924 0302  SFE4003-A2
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1924 0303 SFE4003-A3
1924 0304 SFE4003-A4
1924 0500 SFE4005-A0
1924 5102 SFN4111T-A2
1924 5103 SFN4111T-R3
1924 5104 SFN4111T-R4
1924 5105 SFN4111T-R5
1924 5201 SFN4112F-R1
1924 5202 SFN4112F-R2
0803 SFC9020 10G Ethernet Controller
1014 0478 2-port 10GbE Low-Latency (R7)
1014 0479 2-port 10GbE OpenOnload (R7)
1014 04a7 Solarflare 10Gb Low-latency Dual-port HBA (R7)
1014 04a8 Solarflare 10Gb Dual-port HBA (R7)
103c 2132 Ethernet 10Gb 2-port 570FLR-SFP+
Adapter (R1)
103c 2136 Ethernet 10Gb 2-port 570SFP+ Adapter (R7)
1924 1201 SFA6902F-R1 SFP+ AOE Adapter
1924 6200 SFN5122F-R0 SFP+ Server Adapter
1924 6201 SFN5122F-R1 SFP+ Server Adapter
1924 6202 SFN5122F-R2 SFP+ Server Adapter
1924 6204 SFN5122F-R4 SFP+ Server Adapter
1924 6205 SFN5122F-R5 SFP+ Server Adapter
1924 6206 SFN5122F-R6 SFP+ Server Adapter
1924 6207 SFN5122F-R7 SFP+ Server Adapter
1924 6210 SFN5322F-R0 SFP+ Precision Time Synchronization Server Adapter
1924 6211 SFN5322F-R1 SFP+ Precision Time Synchronization Server Adapter
1924 6217 SFN5322F-R7 SFP+ Precision Time Synchronization Server Adapter
1924 6227 SFN6122F-R7 SFP+ Server Adapter
1924 6237 SFN6322F-R7 SFP+ Precision Time Synchronization Server Adapter
1924 6501 SFN5802K-R1 Mezzanine Adapter
1924 6511 SFN5814H-R1 Mezzanine Adapter
1924 6521 SFN5812H-R1 Mezzanine Adapter
1924 6562 SFN6832F-R2 SFP+ Mezzanine Adapter
1924 6a05 SFN5112F-R5 SFP+ Server Adapter
1924
6a06 SFN5112F-R6 SFP+ Server Adapter
1924 7206 SFN5162F-R6 SFP+ Server Adapter
1924 7207 SFN5162F-R7 SFP+ Server Adapter
1924 7a06 SFN5152F-R6 SFP+ Server Adapter
1924 7a07 SFN5152F-R7 SFP+ Server Adapter
0813 SFL9021 10GBASE-T Ethernet Controller
1924 6100 SFN5121T-R0 10GBASE-T Server Adapter
1924 6102 SFN5121T-R2 10GBASE-T Server Adapter
1924 6103 SFN5121T-R3 10GBASE-T Server Adapter
1924 6104 SFN5121T-R4 10GBASE-T Server Adapter
1924 6902 SFN5111T-R2 10GBASE-T Server Adapter
1924 6904 SFN5111T-R4 10GBASE-T Server Adapter

1924 7104 SFN5161T-R4 10GBASE-T Server Adapter
1924 7904 SFN5151T-R4 10GBASE-T Server Adapter
0903 SFC9120 10G Ethernet Controller
1014 04cc SFN7122F-R2 2x10GbE SFP+ Flareon Ultra
1924 8002 SFN7122F-R1 SFP+ Server Adapter
1924 8003 SFN7x41Q-R1 Flareon Ultra 7000 Series 10/40G Adapter
1924 8006 SFN7022F-R1 SFP+ Server Adapter
1924 8007 SFN7322F-R2 Precision Time SFP+ Server Adapter
1924 8009 SFN7x22F-R2
Flareon Ultra 7000 Series 10G Adapter
1924 800a SFN7x02F-R2 Flareon 7000 Series 10G Adapter
1924 800c SFN7x22F-R3 Flareon Ultra 7000 Series 10G Adapter
1924 800d SFN7x02F-R3 Flareon 7000 Series 10G Adapter
1924 8010 SFA7942Q-R1 QSFP+ AOE Adapter
1924 8015 SFA7942Q-A5-0-R1 QSFP+ AOE Adapter
0923 SFC9140 10/40G Ethernet Controller
1924 800b SFN7x42Q-R1 Flareon Ultra 7000 Series 10/40G Adapter
1924 800e SFN7x42Q-R2 Flareon Ultra 7000 Series 10/40G Adapter
1924 800f SFN7xx4F-R1 Flareon Ultra 7000 Series 10G Adapter
0a03 SFC9220 10/40G Ethernet Controller
1924 8011 SFN8022-R1 8000 Series 10G Adapter
1924 8012 SFN8522-R1 8000 Series 10G Adapter
1924 8013 SFN8042-R1 8000 Series 10/40G Adapter
1924 8014 SFN8542-R1 8000 Series 10/40G Adapter
1924 8016 SFN8022-R2 8000 Series 10G Adapter
1924 8017 SFN8522-R2 8000 Series 10G Adapter
1924 8018 SFN8042-R2 8000 Series 10/40G Adapter
1924 8019 SFN8542-R2 8000 Series 10/40G Adapter
1924 801a SFN8722-R1
8000 Series OCP 10G Adapter
1924 801b SFN8522-R3 8000 Series 10G Adapter
1924 801c SFN8042-R3 8000 Series 10/40G Adapter
1924 8021 SFN8041-R1 8000 Series 10/40G Adapter
0b03 XtremeScale SFC9250 10/25/40/50/100G Ethernet Controller
1924 801d x2522-R1 2000 Series 10/25G Adapter
1924 801e x2542-R1 2000 Series 40/100G Adapter
1924 8022 XtremeScale X2522 10G Network Adapter
1924 8024 XtremeScale X2562 OCP 3.0 Dual Port SFP28
1924 8027 XtremeScale X2541 PCIe Single Port QSFP28
1924 8028 XtremeScale X2522-25G Network Adapter
1924 802a XtremeScale X2542 PCIe Dual Port QSFP28
1924 802b XtremeScale X2552 OCP 2.0 Dual Port SFP28
1924 802c XtremeScale X2522-25G PCIe Dual Port SFP28
1924 802d XtremeScale X2562 OCP 3.0 Dual Port SFP28
1803 SFC9020 10G Ethernet Controller (Virtual Function)
1813 SFL9021 10GBASE-T Ethernet Controller (Virtual Function)
1903 SFC9120 10G Ethernet Controller (Virtual Function)
1923 SFC9140 10/40G Ethernet Controller

(Virtual Function)
1a03 SFC9220 10/40G Ethernet Controller (Virtual Function)
1b03 XtremeScale SFC9250 10/25/40/50/100G Ethernet Controller (Virtual Function)
6703 SFC4000 rev A iSCSI/Onload [Solarstorm]
10b8 0102 SMC10GPCIe-10BT (A2) [TigerCard]
10b8 0103 SMC10GPCIe-10BT (A3) [TigerCard]
10b8 0201 SMC10GPCIe-XFP (A1) [TigerCard]
1924 0101 SFE4001-A1
1924 0102 SFE4001-A2
1924 0103 SFE4001-A3
1924 0201 SFE4002-A1
1924 0301 SFE4003-A1
1924 0302 SFE4003-A2
1924 0303 SFE4003-A3
1924 0304 SFE4003-A4
1924 0500 SFE4005-A0
c101 EF1-21022T [EtherFabric]
192a BiTMICRO Networks Inc.
0008 RAMPART
192e TransDimension
1931 Option N.V.
000c Qualcomm MSM6275 UMTS chip
1932 DiBcom
193c MAXIM Integrated Products
193d Hangzhou H3C Technologies Co., Ltd.
193f AHA Products Group
0001 AHA36x-PCIX
0360 AHA360-PCIe
0363 AHA363-PCIe
0364 AHA364-PCIe
0367 AHA367-PCIe
0370 AHA370-PCIe
0604 AHA604
0605 AHA605
3641 AHA3641
3642 AHA3642
6101
AHA6101
6102 AHA6102
1942 ClearSpeed Technology plc
e511 Advance X620 accelerator card
e521 Advance e620 accelerator card
1947 C-guys, Inc.
4743 CG200 Dual SD/SDIO Host controller device
1948 Alpha Networks Inc.
194a DapTechnology B.V.
1111 FireSpy3850
1112 FireSpy450b

1113 FireSpy450bT
1114 FireSpy850
1115 FireSpy850bT
1200 FireTrac 3460bT
1201 FireTrac 3460bT (fallback firmware)
1202 FireTrac 3460bT
1203 FireTrac 3460bT (fallback firmware)
nee Curtis, Inc.
1954 One Stop Systems, Inc.
1957 Freescale Semiconductor Inc
0012 MPC8548E
0013 MPC8548
0014 MPC8543E
0015 MPC8543
0018 MPC8547E
0019 MPC8545E
001a MPC8545
0020 MPC8568E
0021 MPC8568
0022 MPC8567E
0023 MPC8567
0030 MPC8533E
0031 MPC8533
0032 MPC8544E
0033 MPC8544
0040 MPC8572E
0041 MPC8572
0050 MPC8536E
0051 MPC8536
0052 MPC8535E
0053 MPC8535
0060 MPC8569
0061 MPC8569E
0070 P2020E
0071 P2020
0078 P2010E
0079 P2010
0080 MPC8349E
0081 MPC8349
0082
 MPC8347E TBGA
0083 MPC8347 TBGA
0084 MPC8347E PBGA
 110a 4074 SIMATIC NET CP 1628
0085 MPC8347 PBGA
 110a 4046 SIMATIC NET CP 1623
0086 MPC8343E
0087 MPC8343

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 00b4  MPC8315E
 00b6  MPC8314E
  1a56 1101  Killer Xeno Pro Gigabit Ethernet Controller
 00c2  MPC8379E
 00c3  MPC8379
 00c4  MPC8378E
 00c5  MPC8378
 00c6  MPC8377E
 00c7  MPC8377
 0100  P1020E
 0101  P1020
 0102  P1021E
 0103  P1021
 0108  P1011E
 0109  P1011
 010a  P1012E
 010b  P1012
 0110  P1022E
 0111  P1022
  1c7f 5200  EB5200
 0118  P1013E
 0119  P1013
 0128  P1010
 0400  P4080E
 0401  P4080
 0408  P4040E
 0409  P4040
 041f  P3041
 0440  T4240 with security
 0441  T4240 without security
 0446  T4160 with security
 0447  T4160 without security
 0830  T2080 with security
 0831  T2080 without security
 0838  T2081 with security
 0839  T2081 without security
 580c  MPC5121e
 7010  MPC8641 PCI Host Bridge
 7011  MPC8641D PCI Host Bridge
 7018  MPC8610
 c006  MPC8308
  1a56 1201  Killer E2100 Gigabit
 Ethernet Controller
# PCIe interface for emulator
 fc02  RedStone
# CFI device over PCIe
 fc03  CFI
1958  Faster Technology, LLC.
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1959  PA Semi, Inc
 a000  PA6T Core
 a001  PWRficient Host Bridge
 a002  PWRficient PCI-Express Port
 a003  PWRficient SMBus Controller
 a004  PWRficient 16550 UART
 a005  PWRficient Gigabit Ethernet
 a006  PWRficient 10-Gigabit Ethernet
 a007  PWRficient DMA Controller
 a008  PWRficient LPC/Localbus Interface
 a009  PWRficient L2 Cache
 a00a  PWRficient DDR2 Memory Controller
 a00b  PWRficient SERDES
 a00c  PWRficient System/Debug Controller
 a00d  PWRficient PCI-Express Internal Endpoint
1966  Orad Hi-Tec Systems
 1975  DVG64 family
 1977  DVG128 family
# nee Atheros Communications, Inc. nee Attansic Technology Corp.
1969  Qualcomm Atheros
 1026  AR8121/AR8113/AR8114 Gigabit or Fast Ethernet
  1043 8304  P5KPL-CM Motherboard
 1048  Attansic L1 Gigabit Ethernet
  1043 8226  P5B-MX/WiFi-AP, P5KPL-VM Motherboard
 1062  AR8132 Fast Ethernet
 1063  AR8131 Gigabit
 Ethernet
  1458 e000  GA-G31M-ES2L Motherboard
  17c0 10d2  Medion Akoya E7214 Notebook PC [MD98410]
 1066  Attansic L2c Gigabit Ethernet
 1067  Attansic L1c Gigabit Ethernet
 1073  AR8151 v1.0 Gigabit Ethernet
 1083  AR8151 v2.0 Gigabit Ethernet
 1090  AR8162 Fast Ethernet
  1043 108d  VivoBook X202E, X202EV
 1091  AR8161 Gigabit Ethernet
  1043 1477  N56VZ
 10a0  QCA8172 Fast Ethernet
 10a1  QCA8171 Gigabit Ethernet
 2048  Attansic L2 Fast Ethernet
 2060  AR8152 v1.1 Fast Ethernet
 2062  AR8152 v2.0 Fast Ethernet
  1043 8468  Eee PC 1015PX
# E2200, E2201, E2205
 e091  Killer E220x Gigabit Ethernet Controller
 e0a1  Killer E2400 Gigabit Ethernet Controller
 e0b1  Killer E2500 Gigabit Ethernet Controller
196a  Sensory Networks Inc.
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0101 NodalCore C-1000 Content Classification Accelerator
0102 NodalCore C-2000 Content Classification Accelerator
0105 NodalCore C-3000 Content Classification Accelerator
196d Club-3D BV
196e PNY
1971 AGEIA Technologies, Inc.
1011 Physics Processing
Unit [PhysX]
1043 0001 PhysX P1
nee Eberspaecher Electronics
1974 Star Electronics GmbH & Co. KG
0009 FlexCard PMC-II
0011 FlexCard PMC-II Ethernet
1976 TRENDnet
1977 Parsec
197b JMicron Technology Corp.
0250 JMC250 PCI Express Gigabit Ethernet Controller
0260 JMC260 PCI Express Fast Ethernet Controller
0368 JMB368 IDE controller
2360 JMB360 AHCI Controller
2361 JMB361 AHCI/IDE
1462 7235 P965 Neo MS-7235 mainboard
2362 JMB362 SATA Controller
1043 8460 P8P67 Deluxe Motherboard
2363 JMB363 SATA/IDE Controller
1043 81e4 P5B [JMB363]
1458 b000 Motherboard
1849 2363 Motherboard (one of many)
2364 JMB364 AHCI Controller
2365 JMB365 AHCI/IDE
2366 JMB366 AHCI/IDE
2368 JMB368 IDE controller
2369 JMB369 Serial ATA Controller
2380 IEEE 1394 Host Controller
2381 Standard SD Host Controller
2382 SD/MMC Host Controller
2383 MS Host Controller
2384 xD Host Controller
2386 Standard SD Host Controller
2387 SD/MMC Host Controller
2388
MS Host Controller
2389 xD Host Controller
2391 Standard SD Host Controller
2392 SD/MMC Host Controller
2393 MS Host Controller
2394 xD Host Controller
1982 Distant Early Warning Communications Inc

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 1600  OX16C954 HOST-A
 16ff  OX16C954 HOST-B
1987  Phison Electronics Corporation
 5007  E7 NVMe Controller
 5012  E12 NVMe Controller
 5016  E16 PCIe4 NVMe Controller
1989  Montilio Inc.
 0001  RapidFile Bridge
 8001  RapidFile
198a  Nallatech Ltd.
1993  Innominate Security Technologies AG
1999  A-Logics
 a900  AM-7209 Video Processor
199a  Pulse-LINK, Inc.
199d  Xsigo Systems
 8209  Virtual NIC Device
 890a  Virtual HBA Device
199f  Auvitek
 8501  AU85X1 PCI REV1.1
 8521  AU8521 TV card
# nee ServerEngines Corp.
19a2  Emulex Corporation
 0120  x1 PCIe Gen2 Bridge[Pilot4]
 0200  BladeEngine 10Gb PCI-E iSCSI adapter
 0201  BladeEngine 10Gb PCIe Network Adapter
 0211  BladeEngine2 10Gb Gen2 PCIe Network Adapter
 0212  BladeEngine2 10Gb Gen2 PCIe iSCSI Adapter
 0221  BladeEngine3
 10Gb Gen2 PCIe Network Adapter
 0222  BladeEngine3 10Gb Gen2 PCIe iSCSI Adapter
 0700  OneConnect OCe10100/OCe10102 Series 10 GbE
  103c 1747  NC550SFP DualPort 10GbE Server Adapter
  103c 1749  NC550SFP Dual Port Server Adapter
  103c 174a  NC551m Dual Port FlexFabric 10Gb Adapter
  103c 174b  StorageWorks NC550 DualPort Converged Network Adapter
  103c 3314  NC551i Dual Port FlexFabric 10Gb Adapter
 0702  OneConnect 10Gb iSCSI Initiator
 0704  OneConnect OCe10100/OCe10102 Series 10 GbE CNA
  10df e602  OneConnect OCe10100 10Gb CNA
  10df e630  OneConnect OCe10102-FM-E / OCe10102-FX-E for EMC VNX Symmetrix
 0710  OneConnect 10Gb NIC (be3)
# FC 5287 / FC 5284; CCIN 5287
  1014 03d0  PCIe2 2-port 10GbE SR Adapter for POWER
# FC 5288 / FC 5286; CCIN 5288
  1014 03d1  PCIe2 2-port 10GbE SFP+ Copper Adapter for POWER
  1014 0409  Integrated Multifunction Card with Dual 10GbE SR Optical + Dual 1GbE for Power 750/760
  1014 040a  Integrated Multifunction Card with Dual 10GbE SR Copper +
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Dual 1GbE for Power 750/760
  103c 3315  NC553i 10Gb 2-port FlexFabric Converged Network Adapter
  103c 3340  NC552SFP 2-port 10Gb Server Adapter
  103c 3341  NC552m 10Gb 2-port FlexFabric Converged Network Adapter
  103c 3345  NC553m 10Gb 2-port FlexFabric Converged Network Adapter
  103c 337b  NC554FLB 10Gb 2-port FlexFabric Converged Network Adapter
  10df e733  Flex System EN4054 4-port 10Gb Ethernet Mezzanine Adapter
 0712  OneConnect 10Gb iSCSI Initiator (be3)
 0714  OneConnect 10Gb FCoE Initiator (be3)
  103c 3315  NC553i 10Gb 2-port FlexFabric Converged Network Adapter
  103c 337b  NC554FLB 10Gb 2-port FlexFabric Converged Network Adapter
 0800  ServerView iRMC HTI
19a8  DAQDATA GmbH
19ac  Kasten Chase Applied Research
 0001  ACA2400 Crypto Accelerator
19ae  Progeny Systems Corporation
 0520  4135 HFT Interface Controller
 0521  Decimator
19ba  ZyXEL Communications Corp.
 2330  ZyWALL Turbo Card
19c1  Exegy Inc.
# nee NextNet Wireless
19d1  Motorola Expedience
19d4  Quixant Limited
19da
  ZOTAC International (MCO) Ltd.
19de  Pico Computing
19e2  Vector Informatik GmbH
19e3  DDRdrive LLC
 5801  DDRdrive X1
 5808  DDRdrive X8
 dd52  DDRdrive X1-30
19e5  Huawei Technologies Co., Ltd.
# subvendor
 0123  ES3000 V3 NVMe PCIe SSD
  19e5 3022  NVMe SSD ES3600P V3 800GB 2.5" U.2
  19e5 3023  NVMe SSD ES3600P V3 1200GB 2.5" U.2
  19e5 3024  NVMe SSD ES3600P V3 1600GB 2.5" U.2
  19e5 3025  NVMe SSD ES3600P V3 2000GB 2.5" U.2
  19e5 3026  NVMe SSD ES3600P V3 3200GB 2.5" U.2
  19e5 3033  NVMe SSD ES3600C V3 1200GB HHHL AIC
  19e5 3034  NVMe SSD ES3600C V3 1600GB HHHL AIC
  19e5 3036  NVMe SSD ES3600C V3 3200GB HHHL AIC
 0200  Hi1822 Family (2*100GE)
  19e5 d139  Hi1822 SP572 (2*100GE)
  19e5 d13d  Hi1822 SC371 (2*100GE)
 0202  Hi1822 Family (2*32G FC)
  19e5 d302  Hi1822 SP521 (2*32G FC)
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19e5 d304 Hi1822 SP526 (2*32G FC)
0203 Hi1822 Family (2*16G FC)
19e5 d301 Hi1822 SP520 (2*16G FC)
19e5 d305 Hi1822 SP525 (2*16G FC)
0205 Hi1822 Family (2*100GE)
19e5 df27
Hi1822 MZ731 MEZZ (2*100GE)
0206 Hi1822 Family (2*25GE)
19e5 d138 Hi1822 SP582 (2*25GE)
19e5 d13a Hi1822 SC381 (2*25GE)
0210 Hi1822 Family (4*25GE)
19e5 df2e Hi1822 MZ532 MEZZ (4*25GE)
0211 Hi1822 Family (4*25GE)
19e5 d12f Hi1822 SP571 (4*25GE)
19e5 d137 Hi1822 SP581 (4*25GE)
19e5 d142 Hi1822 SP583 (4*25GE)
0212 Hi1822 Family (2*8G FC)
19e5 d303 Hi1822 SP522 (2*8G FC)
19e5 d306 Hi1822 SP523 (2*8G FC)
1710 iBMA Virtual Network Adapter
1711 Hi1710 [iBMC Intelligent Management system chip w/VGA support]
1822 Hi1822 Family (4*25GE)
19e5 d129 Hi1822 SP570 (4*25GE)
19e5 d136 Hi1822 SP580 (4*25GE)
19e5 d141 Hi1822 SP583 (4*25GE)
371e Hi1822 Family Virtual Bridge
375e Hi1822 Family Virtual Function
379e Hi1822 Family Virtual Function
a120 HiSilicon PCIe Root Port with Gen4
a121 HiSilicon PCI-PCI Bridge
a122 HiSilicon Embedded DMA Engine
a124 HiSilicon Internal SDI Function Engine
a125 HiSilicon SDI Network Controller
a126 HiSilicon
SDI NVMe Storage Controller
a127 HiSilicon SDI Accelerator
a12a HiSilicon Add-on PCI-PCI Bridge
a220 HNS GE Network Controller
a221 HNS GE/10GE/25GE Network Controller
19e5 0454 TM280
19e5 04cc TM210
19e5 d14a TM280 4*25G
19e5 d14b TM210 4*GE
a222 HNS GE/10GE/25GE RDMA Network Controller
a224 HNS GE/10GE/25GE/50GE RDMA Network Controller
a226 HNS GE/10GE/25GE/50GE/100GE RDMA Network Controller
a22a HiSilicon Network For SDI
a22e HNS Network Controller (Virtual Function)

a22f HNS RDMA Network Controller (Virtual Function)
a230 HiSilicon SAS 3.0 HBA
a235 HiSilicon AHCI HBA
a238 HiSilicon USB 3.0 Host Controller
a239 HiSilicon USB 2.0 2-port Host Controller
a23a HiSilicon USB 2.0 Host Controller
a23b HiSilicon USB 1.1 Host Controller
a250 HiSilicon ZIP Engine
a251 HiSilicon ZIP Engine(Virtual Function)
a255 HiSilicon SEC Engine
a256 HiSilicon SEC Engine(Virtual Function)
a258 HiSilicon HPRE Engine
a259 HiSilicon HPRE Engine(Virtual Function)
a25a HiSilicon RDE Engine
a25b HiSilicon RDE Engine(Virtual Function)
19e7 NET (Network Equipment Technologies)
1001 STIX DSP Card
1002 STIX - 1 Port T1/E1 Card
1003 STIX - 2 Port T1/E1 Card
1004 STIX - 4 Port T1/E1 Card
1005 STIX - 4 Port FXS Card
19ee Netronome Systems, Inc.
19f1 BFG Tech
19ff Eclipse Electronic Systems, Inc.
1a03 ASPEED Technology, Inc.
1150 AST1150 PCI-to-PCI Bridge
2000 ASPEED Graphics Family
15d9 0832 X10SRL-F
1a05 deltaww
1a07 Kvaser AB
0006 CAN interface PC104+ HS/HS
0007 CAN interface PCIcanx II HS or HS/HS
0008 CAN interface PCIEcan HS or HS/HS
0009 CAN interface PCI104 HS/HS
1a08 Sierra semiconductor
0000 SC15064
1a0e DekTec Digital Video B.V.
083f DTA-2111 VHF/UHF Modulator
1a17 Force10 Networks, Inc.
8002 PB-10GE-2P 10GbE Security Card
1a1d GFaI e.V.
1a17 Meta Networks MTP-1G IDPS NIC
1a1e 3Leaf Systems, Inc.
1a22 Ambric Inc.
1a29 Fortinet, Inc.
4338 CP8 Content Processor ASIC
4e36 NP6 Network

Processor
4e37 NP7 Network Processor
1a2b Ascom AG
0000 GESP v1.2
0001 GESP v1.3
0002 ECOMP v1.3
0005 ETP v1.4
000a ETP-104 v1.1
000e DSLP-104 v1.1
nee Metalink Ltd.
1a30 Lantiq
0680 MtW8171 [Hyperion II]
0700 Wave300 PSB8224 [Hyperion III]
0710 Wave300 PSB8231 [Hyperion III]
1a32 Quanta Microsystems, Inc
1a3b AzureWave
1112 AR9285 Wireless Network Adapter (PCI-Express)
1a41 Tilera Corp.
0001 TILE64 processor
0002 TILEPro processor
0200 TILE-Gx processor
0201 TILE-Gx Processor Virtual Function
2000 TILE-Gx PCI Express Root Port
1a4a SLAC National Accelerator Lab TID-AIR
1000 MCOR Power Supply Controller
1010 AMC EVR - Stockholm Timing Board
1020 Cluster On Board (COB) Ethernet Switch
2000 PGPCard - 4 Lane
2001 PGPCard - 8 Lane Plus EVR
2010 PCI-Express EVR
PC-260-101-03
2020 PGP-GEN3 PCIe
2030 AXI Stream DAQ PCIe card
1a51 Hectronic AB
1a55 Rohde & Schwarz DVS GmbH
0010 SDStationOEM
0011 SDStationOEM II
0020 Centaurus
0021
Centaurus II
0022 Centaurus II LT
0030 CLIPSTER-VPU 1.x (Hugo)
0040 Hydra Cinema (JPEG)
0050 CLIPSTER-VPU 2.x (DigiLab)
0060 CLIPSTER-DCI 2.x (HydraX)
0061 Atomix
0062 Atomix LT
0063 Atomix HDMI

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 0064  Atomix STAN
 0065  Atomix HDMI STAN
 0070  RED Rocket
 0090  CinePlay
1a56  Bigfoot Networks, Inc.
1a57  Highly Reliable Systems
1a58  Razer USA Ltd.
1a5d  Celoxica
1a5e  Aprius Inc.
1a5f  System TALKS Inc.
1a68  VirtenSys Limited
1a71  XenSource, Inc.
1a73  Violin Memory, Inc
 0001  Mozart [Memory Appliance 1010]
1a76  Wavesat
1a77  Lightfleet Corporation
1a78  Virident Systems Inc.
 0031  FlashMAX Drive
  1a78 0034  FlashMAX PCIe SSD [rev 3]
  1a78 0037  FlashMAX PCIe SSD [rev 3D]
  1a78 0038  FlashMAX PCIe SSD [rev 4]
  1a78 0039  FlashMAX PCIe SSD [rev 4D]
 0040  FlashMAX II
 0041  FlashMAX II
 0042  FlashMAX II
 0050  FlashMAX III
1a84  Commex Technologies
 0001  Vulcan SP HT6210 10-Gigabit Ethernet (rev 02)
1a88  MEN Mikro Elektronik
 4d45  Multifunction IP
 core
1a8a  StarBridge, Inc.
1a8c  Verigy Pte. Ltd.
 1100  E8001-66443 PCI Express CIC
1a8e  DRS Technologies
 2090  Model 2090 PCI Express
1aa8  Ciprico, Inc.
 0009  RAIDCore Controller
 000a  RAIDCore Controller
1aae  Global Velocity, Inc.
1ab4  Distributed Management Task Force, Inc. (DMTF)
1ab6  CalDigit, Inc.
 6201  RAID Card
# Parallels VM virtual devices
1ab8  Parallels, Inc.
 4000  Virtual Machine Communication Interface
 4005  Accelerated Virtual Video Adapter
 4006  Memory Ballooning Controller
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1ab9  Espia Srl
1ac1  Global Unichip Corp.
 089a  Coral Edge TPU
1ac8  Aeroflex Gaisler
1acc  Point of View BV
1ad7  Spectracom Corporation
 8000  TSync-PCIe Time Code Processor
 9100  TPRO-PCI-66U Timecode Reader/Generator
1ade  Spin Master Ltd.
 1501  Swipetech barcode scanner
 3038  PCIe Video Bridge
  13c2 3016  TT-budget S2-4200 Twin
  4254 0552  S952 v3
1ae0  Google, Inc.
 0042  Compute Engine Virtual Ethernet [gVNIC]
1ae3  SANBlaze Technology, Inc.
1ae7  First Wise Media GmbH
 0520
  HFC-S PCI A [X-TENSIONS XC-520]
1ae8  Silicon Software GmbH
 0a40  microEnable IV-BASE x1
 0a41  microEnable IV-FULL x1
 0a44  microEnable IV-FULL x4
 0e44  microEnable IV-GigE x4
1ae9  Wilocity Ltd.
 0101  Wil6200 PCI Express Upstream Port
 0200  Wil6200 PCI Express Port
 0201  Wil6200 Wireless PCI Express Port
 0301  Wil6200 802.11ad Wireless Network Adapter
 0302  Wil6200 802.11ad Wireless Network Adapter
 0310  Wil6200 802.11ad Wireless Network Adapter
1aea  Alcor Micro
 6601  AU6601 PCI-E Flash card reader controller
 6621  AU6621 PCI-E Flash card reader controller
 6625  AU6625 PCI-E Flash card reader controller
1aec  Wolfson Microelectronics
# nee Fusion-io
1aed  SanDisk
 1003  ioDimm3 (v1.2)
 1005  ioDimm3
  1014 03c3  High IOPS SSD PCIe Adapter
  103c 176f  1.28TB MLC PCIe ioDrive Duo
  103c 1770  5.2TB MLC PCIe ioDrive Octal
  103c 178b  160GB SLC PCIe ioDrive
  103c 178c  320GB MLC PCIe ioDrive
  103c 178d  320GB SLC PCIe ioDrive Duo
  103c 178e  640GB MLC PCIe ioDrive
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Duo
1006 ioXtreme
1007 ioXtreme Pro
1008 ioXtreme-2
2001 ioDrive2
3001 ioMemory FHHL
3002 ioMemory HHHL
3003 ioMemory Mezzanine
1aee Caustic Graphics Inc.
nee Qumranet, Inc.
1af4 Red Hat, Inc.
1000 Virtio network device
1001 Virtio block device
1002 Virtio memory balloon
1003 Virtio console
1004 Virtio SCSI
1005 Virtio RNG
1009 Virtio filesystem
virtio 1.0
1041 Virtio network device
virtio 1.0
1042 Virtio block device
virtio 1.0
1043 Virtio console
virtio 1.0
1044 Virtio RNG
virtio 1.0
1045 Virtio memory balloon
virtio 1.0
1048 Virtio SCSI
virtio 1.0
1049 Virtio filesystem
virtio 1.0
1050 Virtio GPU
virtio 1.0
1052 Virtio input
1110 Inter-VM shared memory
1af4 1100 QEMU Virtual Machine
1af5 Netezza Corp.
1afa J & W Electronics Co., Ltd.
1b03 Magnum Semiconductor, Inc,
6100 DXT/DXTPro Multiformat Broadcast HD/SD Encoder/Decoder/Transcoder
7000 D7 Multiformat Broadcast HD/SD Encoder/Decoder/Transcoder
1b08 MSC
Technologies GmbH
1b0a Pegatron
1b13 Jaton Corp
1b1a K&F Computing Research Co.

0e70 GRAPE
1b21 ASMedia Technology Inc.
0611 ASM1061 SATA IDE Controller
0612 ASM1062 Serial ATA Controller
1849 0612 Motherboard
1042 ASM1042 SuperSpeed USB Host Controller
1043 8488 P8B WS Motherboard
1849 1042 Motherboard
1080 ASM1083/1085 PCIe to PCI Bridge
1849 1080 Motherboard
1142 ASM1042A USB 3.0 Host Controller
1184 ASM1184e PCIe Switch Port
1849 1184 ASM1184e PCIe Switch
1242 ASM1142 USB 3.1 Host Controller
1343 ASM1143 USB 3.1 Host Controller
2142 ASM2142 USB 3.1 Host Controller
1b26 Netcope Technologies, a.s.
c132 COMBO-LXT155
c1c0 NFB-100G1-e0
c1c1 NFB-100G1-e1
c250 NFB-200G2-master
c251 NFB-200G2-slave
c2c0 NFB-100G2-e0
c2c1 NFB-100G2-e1
cb20 COMBO-20G
cb40 COMBO-40G
cb80 NFB-40G2
1b2c Opal-RT Technologies Inc.
1b36 Red Hat, Inc.
0001 QEMU PCI-PCI bridge
0002 QEMU PCI 16550A Adapter
1af4 1100 QEMU Virtual Machine
0003 QEMU
PCI Dual-port 16550A Adapter
1af4 1100 QEMU Virtual Machine
0004 QEMU PCI Quad-port 16550A Adapter
1af4 1100 QEMU Virtual Machine
0005 QEMU PCI Test Device
1af4 1100 QEMU Virtual Machine
0006 PCI Rocker Ethernet switch device
0007 PCI SD Card Host Controller Interface
0008 QEMU PCIe Host bridge
0009 QEMU PCI Expander bridge
000a PCI-PCI bridge (multiseat)
000b QEMU PCIe Expander bridge
000c QEMU PCIe Root port
000d QEMU XHCI Host Controller
0100 QXL paravirtual graphic card

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  1af4 1100  QEMU Virtual Machine
1b37  Signal Processing Devices Sweden AB
 0001  ADQ214
 0003  ADQ114
 0005  ADQ112
 000e  ADQ108
 000f  ADQDSP
 0014  ADQ412
 0015  ADQ212
 001b  SDR14
 001c  ADQ1600
 001e  ADQ208
 001f  DSU
 0020  ADQ14
 0023  ADQ7
 0026  ADQ8
 2014  TX320
 2019  S6000
# now owned by HGST (a Western Digital subsidiary)
1b39  sTec, Inc.
 0001  S1120 PCIe Accelerator SSD
1b3a  Westar Display Technologies
 7589  HRED J2000 - JPEG 2000 Video Codec Device
1b3e  Teradata
 Corp.
 1fa8  BYNET BIC2SE/X
  1b3e 00a3  BYNET BIC2SX
  1b3e 00c3  BYNET BIC2SE
1b40  Schooner Information Technology, Inc.
# also used by some PROXIM (14b7) devices erroneously
1b47  Numascale AS
 0601  NumaChip N601
 0602  NumaChip N602
1b4b  Marvell Technology Group Ltd.
 0640  88SE9128 SATA III 6Gb/s RAID Controller
 9120  88SE9120 SATA 6Gb/s Controller
 9123  88SE9123 PCIe SATA 6.0 Gb/s controller
  dc93 600e  DC-6xxe series SATA 6G controller
 9125  88SE9125 PCIe SATA 6.0 Gb/s controller
 9128  88SE9128 PCIe SATA 6 Gb/s RAID controller
 9130  88SE9128 PCIe SATA 6 Gb/s RAID controller with HyperDuo
  1043 8438  P8P67 Deluxe Motherboard
 9172  88SE9172 SATA 6Gb/s Controller
 9178  88SE9170 PCIe SATA 6Gb/s Controller
 917a  88SE9172 SATA III 6Gb/s RAID Controller
 9183  88SS9183 PCIe SSD Controller
 9192  88SE9172 SATA III 6Gb/s RAID Controller
 91a0  88SE912x SATA 6Gb/s Controller [IDE mode]
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91a4 88SE912x IDE Controller
9220 88SE9220 PCIe 2.0 x2 2-port SATA 6 Gb/s RAID Controller
9230
88SE9230 PCIe SATA 6Gb/s Controller
1028 1fd6 BOSS-S1 Adapter
1028 1fdf BOSS-S1 Modular
1028 1fe2 BOSS-S1 Adapter
1028 2010 BOSS-S2 Adapter
1d49 0300 ThinkSystem M.2 with Mirroring Enablement Kit
9235 88SE9235 PCIe 2.0 x2 4-port SATA 6 Gb/s Controller
9445 88SE9445 PCIe 2.0 x4 4-Port SAS/SATA 6 Gbps RAID Controller
9480 88SE9480 SAS/SATA 6Gb/s RAID controller
9485 88SE9485 SAS/SATA 6Gb/s controller
1b55 NetUP Inc.
18f6 Dual DVB Universal CI card
18f7 Dual DVB Universal CI card rev 1.4
2a2c Dual DVB-S2-CI card
e2e4 Dual DVB-T/C-CI RF card
2xHDMI and 2xHD-SDI inputs
e5f4 MPEG2 and H264 Encoder-Transcoder
f1c4 Dual ASI-RX/TX-CI card
1b66 DELTACAST
0007 DELTA-3G-elp-d
1b6f Etron Technology, Inc.
7023 EJ168 USB 3.0 Host Controller
7052 EJ188/EJ198 USB 3.0 Host Controller
1849 7052 QC5000-ITX/PH
1b73 Fresco Logic
1000 FL1000G USB 3.0 Host Controller
1d5c 1000 Anker USB 3.0 Express Card
1009 FL1009 USB 3.0 Host Controller
1100
FL1100 USB 3.0 Host Controller
16b8 6e31 Allegro Pro USB 3.0 PCIe
1b74 OpenVox Communication Co. Ltd.
0115 D115P/D115E Single-port E1/T1 card
d130 D130P/D130E Single-port E1/T1 card (3rd GEN)
d210 D210P/D210E Dual-port E1/T1 card(2nd generation)
d230 D230 Dual-port E1/T1 card (2nd generation)
d410 D410/430 Quad-port E1/T1 card
d430 D410/430 Quad-port E1/T1 card
1b79 Absolute Analysis
1b85 OCZ Technology Group, Inc.
1041 RevoDrive 3 X2 PCI-Express SSD 240 GB (Marvell Controller)
6018 RD400/400A SSD
8788 RevoDrive Hybrid
1b94 Signatec / Dynamic Signals Corp
e400 PX14400 Dual Xilinx Virtex5 based Digitizer

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1b96  Western Digital
1b9a  XAVi Technologies Corp.
1baa  QNAP Systems, Inc.
1bad  ReFLEX CES
 c001  XpressGXA10-LP1150
 c002  XpressGXA10-LP1151
1bb0  SimpliVity Corporation
 0002  OmniCube Accelerator OA-3000
 0010  OmniCube Accelerator OA-3000-2
1bb1  Seagate Technology PLC
 005d  Nytro PCIe Flash Storage
  1bb1 6501  Nytro XP6500-8A1536 1.5TB
# 2TB Nytro
 PCIe controller
  1bb1 6502  Nytro XP6500-8A2048
# 4TB Nytro PCIe controller
  1bb1 6503  Nytro XP6500-8A4096
# 2GB DRAM variant of Nytro card
  1bb1 6511  Nytro XH6550-2GB DRAM
# 8GB variant of Nytro PCIe controller
  1bb1 6512  Nytro XH6550-8GB DRAM
# 1.5 TB Nytro PCIe controller
  1bb1 6521  Nytro XP6500-8A1536 1.5TB
# 2TB Nytro PCIe controller
  1bb1 6522  Nytro XP6500-8A2048
# 4TB Nytro PCIe controller
  1bb1 6523  Nytro XP6500-8A4096
 0100  Nytro Flash Storage
  1bb1 0101  Nytro XF1440
  1bb1 0103  Nytro 5000
  1bb1 0105  Nytro 5020
  1bb1 0106  Nytro 5020 TCG
# Larkspur 2.5"
  1bb1 0107  Nytro 5320
# Larkspur 2.5" TCG
  1bb1 0108  Nytro 5320 TCG
  1bb1 0121  Nytro XM1440
  1bb1 0123  Nytro 5000
# Kiowa M.2
  1bb1 0125  Nytro 5020
# Kiowa M.2 TCG
  1bb1 0126  Nytro 5020
# Larkspur M.2 22110mm
  1bb1 0127  Nytro 5320 M.2
# Larkspur M.2 22110mm TCG
  1bb1 0128  Nytro 5320 M.2 TCG
# Larkspur M.2 2280mm
  1bb1 0131  Nytro 5320 M.2
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Larkspur M.2 2280mm TCG
  1bb1 0132 Nytro 5320
 M.2 TCG
Larkspur E1.S
  1bb1 0141 Nytro 5320 E1.S
Larkspur E1.S TCG
  1bb1 0142 Nytro 5320 E1.S TCG
Kersey 2.5"
  1bb1 0151 Nytro 5520
Kersey 2.5" TCG
  1bb1 0152 Nytro 5520 TCG
  1bb1 01a1 Nytro XP7102
1bb3 Bluecherry
 4304 BC-04120A MPEG4 4 port video encoder / decoder
 4309 BC-08240A MPEG4 4 port video encoder / decoder
 4310 BC-16480A MPEG4 16 port video encoder / decoder
 4e04 BC-04120A 4 port MPEG4 video encoder / decoder
 4e09 BC-08240A 8 port MPEG4 video encoder / decoder
 4e10 BC-16480A 16 port MPEG4 video encoder / decoder
 5304 BC-H04120A 4 port H.264 video and audio encoder / decoder
 5308 BC-H08240A 8 port H.264 video and audio encoder / decoder
 5310 BC-H16480A 16 port H.264 video and audio encoder / decoder
1bb5 Quantenna Communications, Inc.
1bbf Maxeler Technologies Ltd.
 0003 MAX3
 0004 MAX4
1bcf NEC Corporation
 001c Vector Engine 1.0
1bd0 Astronics Corporation
 1001 Mx5 PMC/XMC Databus Interface Card
 1002 PM1553-5 (PC/104+ MIL-STD-1553
 Interface Card)
 1004 AB3000 Series Rugged Computer
 1005 PE1000 (Multi-Protocol PCIe/104 Interface Card)
 1101 OmniBus II PCIe Multi-Protocol Interface Card
 1102 OmniBusBox II Multi-Protocol Interface Core
 1103 OmniBus II cPCIe/PXIe Multi-Protocol Interface Card
1bd4 Inspur Electronic Information Industry Co., Ltd.
1bee IXXAT Automation GmbH
 0003 CAN-IB200/PCIe
1bef Lantiq
 0011 MIPS SoC PCI Express Port
1bf4 VTI Instruments Corporation
 0001 SentinelEX
 7011 RX0xxx
1bfd EeeTOP
1c09 CSP, Inc.
 4254 10G-PCIE3-8D-2S

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 4255  10G-PCIE3-8D-Q
 4256  10G-PCIE3-8D-2S
 4258  10G-PCIE3-8E-2S Network Adapter
 4260  10G-PCIE3-8E-4S Network Adapter
 4261  10G-PCIE3-8E-4S Network Adapter
 4262  10G-PCIE3-8E-4S Network Adapter
 4263  10G-PCIE3-8E-4S Network Adapter
 4264  10G-PCIE3-8E-2S Network Adapter
 4265  10G-PCIE3-8E-2S Network Adapter
 5000  25G-PCIE3-8A-2S Security Intelligent Adapter
 5001  25G-PCIE3-8B-2S Security Intelligent Adapter
1c1c  Symphony
 0001  82C101
1c1f
  SoftLab-NSK
 0015  FD842
 0019  FD722
 001a  FD788
 001b  FD720
 001c  FD922
 001d  Vega
1c28  Lite-On IT Corp. / Plextor
 0122  M6e PCI Express SSD [Marvell 88SS9183]
# previously Fiberblaze
1c2c  Silicom Denmark
 000a  Capture
 000f  SmartNIC
 00a0  FBC4G Capture 4x1Gb [Herculaneum]
 00a1  FBC4XG Capture 4x10Gb [Ancona]
 00a2  FBC8XG Capture 8x10Gb [Livorno]
 00a3  FBC2XG Capture 2x10Gb [Genoa]
 00a4  FBC4XGG3 Capture 4x10Gb [Livigno]
 00a5  FBC2XLG Capture 2x40Gb [Livorno]
 00a6  FBC1CG Capture 1x100Gb
 00a9  FBC2XGHH Capture 2x10Gb [Latina]
 00ad  FBC2CGG3HL Capture 2x100Gb [Padua]
 00af  Capture slave device
 00e0  PacketMover 2x100Gb [Savona]
 00e1  PacketMover 2x100Gb [Tivoli]
 00e3  PacketMover 2x10Gb [Tivoli]
 00e5  PacketMover 2x10Gb [Corfu]
 a000  FBC2CGG3 Capture 2x40Gb [Mango_02]
 a001  FBC2CGG3 Capture 2x100Gb [Mango_02]
 a003  FBC2CGG3 Capture 16x10Gb [Mango]
 a007  FBC2CGG3 Capture 2x40Gb [Mango]
 a008  FBC2CGG3 Capture 2x25Gb [Mango]
 a009  FBC2CGG3 Capture 16x10Gb [Mango]
 a00a
```

```
  FBC2CGG3 Capture 8x10Gb [Mango]
 a00e  FB2CG Capture 2x100Gb [Savona]
 a00f  FB2CG Capture 2x40Gb [Savona]
 a011  FB2CG Capture 2x25Gb [Savona]
 a012  FB2CG Capture 8x10Gb [Savona]
# Used on V120 VME Crate Controller
1c32  Highland Technology, Inc.
1c33  Daktronics, Inc
1c36  Annapurna Labs Ltd.
 0001  Gigabit Ethernet Adapter
 0002  SFP+ 10G Ethernet Adapter
1c3b  Accensus, LLC
 0200  Telas2
# http://www.accensusllc.com/accensustelas2.html
 0300  Telas 2.V
1c44  Enmotus Inc
 8000  8000 Storage IO Controller
# A Western Digital Subsidiary
1c58  HGST, Inc.
 0003  Ultrastar SN100 Series NVMe SSD
  1014 04f5  PCIe3 1.6TB NVMe Flash Adapter
  1014 04f6  PCIe3 3.2TB NVMe Flash Adapter
  1c58 0003  Ultrastar SN100/SN150 NVMe SSD
 0023  Ultrastar SN200 Series NVMe SSD
  1c58 8823  Ultrastar Memory (ME200)
1c5c  SK hynix
 1283  PC300 NVMe Solid State Drive 256GB
 1284  PC300 NVMe Solid State Drive 512GB
 1285  PC300 NVMe Solid State Drive 1TB
 1327  BC501 NVMe Solid State Drive 512GB
 1504
  SC300 512GB M.2 2280 SATA Solid State Drive
1c5f  Beijing Memblaze Technology Co. Ltd.
 000d  PBlaze5 520/526 AIC
 003d  PBlaze5 920/926 AIC
 010d  PBlaze5 520/526 U.2
 013d  PBlaze5 920/926 U.2
 0540  PBlaze4 NVMe SSD
 0550  PBlaze5 700/900
 0555  PBlaze5 510/516
 0557  PBlaze5 910/916
# http://www.nicevt.ru/ (in Russian)
1c63  Science and Research Centre of Computer Technology (JSC "NICEVT")
# http://www.radiotec.ru/catalog.php?cat=jr8&art=14109
 0008  K1927BB1Ya [EC8430] Angara Interconnection Network Adapter
1c7e  TTTech Computertechnik AG
 0200  zFAS Debug Port
1c7f  Elektrobit Austria GmbH
```

5100 EB5100
1c8a TSF5 Corporation
0001 Hunter PCI Express
1c8c Mobiveil, Inc.
1cb0 Shannon Systems
d000 Venice NVMe SSD
1cb0 2f10 Venice-E Series U.2 SSD
1cb0 2f11 Venice Series U.2 SSD
1cb0 2f12 Venice-X Series U.2 SSD
1cb0 af10 Venice-E Series AIC SSD
1cb0 af11 Venice Series AIC SSD
1cb0 af12 Venice-X Series AIC SSD
1cb1 Collion UG & Co.KG
1cb5 Focusrite
Audio Engineering Ltd
0002 Clarett
1cb8 Dawning Information Industry Co., Ltd.
1cc1 ADATA Technology Co., Ltd.
8201 XPG SX8200 Pro PCIe Gen3x4 M.2 2280 Solid State Drive
1cc4 Union Memory (Shenzhen)
17ab NVMe 256G SSD device
1cc5 Embedded Intelligence, Inc.
0100 CAN-PCIe-02
1cc7 Radian Memory Systems Inc.
0200 RMS-200
0250 RMS-250
1ccf Zoom Corporation
0001 TAC-2 Thunderbolt Audio Converter
1cd2 SesKion GmbH
0301 Simulyzer-RT CompactPCI Serial DIO-1 card
0302 Simulyzer-RT CompactPCI Serial PSI5-ECU-1 card
0303 Simulyzer-RT CompactPCI Serial PSI5-SIM-1 card
0304 Simulyzer-RT CompactPCI Serial PWR-ANA-1 card
0305 Simulyzer-RT CompactPCI Serial CAN-1 card
supports 8x CAN (-FD) interfaces
0306 Simulyzer-RT CompactPCI Serial CAN-2 card (CAN-FD)
1cd7 Nanjing Magewell Electronics Co., Ltd.
0010 Pro Capture Endpoint
0014 PRO CAPTURE AIO 4K PLUS
0017 PRO CAPTURE AIO 4K
1cdd secunet Security Networks AG
1ce4 Exablaze
0001 ExaNIC X4
0002 ExaNIC X2
0003
ExaNIC X10
0004 ExaNIC X10-GM
0005 ExaNIC X40

0006 ExaNIC X10-HPT
0007 ExaNIC X40
0008 ExaNIC V5P
0009 ExaNIC X25
000a ExaNIC X100
000b ExaNIC V9P
0100 ExaDISK FX1
1cf0 Akitio
1cf7 Subspace Dynamics
1d00 Pure Storage
1d05 Tongfang Hongkong Limited
1d0f Amazon.com, Inc.
cd01 NVMe SSD Controller
ec20 Elastic Network Adapter (ENA)
efa0 Elastic Fabric Adapter (EFA)
1d17 Zhaoxin
070f ZX-100 PCI Express Root Port
0710 ZX-100/ZX-200 PCI Express Root Port
0711 ZX-100/ZX-200 PCI Express Root Port
0712 ZX-100/ZX-200 PCI Express Root Port
0713 ZX-100/ZX-200 PCI Express Root Port
0714 ZX-100/ZX-200 PCI Express Root Port
0715 ZX-100/ZX-200 PCI Express Root Port
0716 ZX-D PCI Express Root Port
0717 ZX-D/ZX-E PCI Express Root Port
0718 ZX-D/ZX-E PCI Express Root Port
0719 ZX-D/ZX-E PCI Express Root Port
071a ZX-D/ZX-E PCI Express Root Port
071b ZX-D/ZX-E PCI Express Root Port
071c ZX-D/ZX-E PCI Express Root Port
071d ZX-D/ZX-E PCI Express
Root Port
071e ZX-D/ZX-E PCI Express Root Port
071f ZX-200 Upstream Port of PCI Express Switch
0720 ZX-200 PCIE RC6 controller
0721 ZX-200 Downstream Port of PCI Express Switch
0722 ZX-200 PCIE P2C bridge
1000 ZX-D Standard Host Bridge
1001 ZX-D/ZX-E Miscellaneous Bus
1003 ZX-E Standard Host Bridge
3001 ZX-100 Standard Host Bridge
300a ZX-100 Miscellaneous Bus
3038 ZX-100/ZX-200/ZX-E Standard Universal PCI to USB Host Controller
3104 ZX-100/ZX-200/ZX-E Standard Enhanced PCI to USB Host Controller
31b0 ZX-100/ZX-D Standard Host Bridge
31b1 ZX-100/ZX-D Standard Host Bridge
31b2 ZX-100/ZX-D DRAM Controller
31b3 ZX-100/ZX-D Power Management Controller

31b4 ZX-100/ZX-D I/O APIC
31b5 ZX-100/ZX-D Scratch Device
31b7 ZX-100/ZX-D/ZX-E Standard Host Bridge
31b8 ZX-100/ZX-D PCI to PCI Bridge
3288 ZX-100/ZX-D/ZX-E High Definition Audio Controller
345b ZX-100/ZX-D/ZX-E Miscellaneous Bus
3a02 ZX-100 C-320 GPU
3a03 ZX-D C-860 GPU
3a04 ZX-E C-960
GPU
9002 ZX-100/ZX-200 EIDE Controller
9003 ZX-100/ZX-E EIDE Controller
9045 ZX-100/ZX-D/ZX-E RAID Accelerator 0
9046 ZX-D/ZX-E RAID Accelerator 1
9083 ZX-100/ZX-200/ZX-E StorX AHCI Controller
9084 ZX-100 StorX AHCI Controller
9100 ZX-200 Cross bus
9101 ZX-200 Traffic Controller
9141 ZX-100 High Definition Audio Controller
9142 ZX-D High Definition Audio Controller
9144 ZX-E High Definition Audio Controller
9180 ZX-200 Networking Gigabit Ethernet Adapter
9202 ZX-100 USB eXtensible Host Controller
9203 ZX-200 USB eXtensible Host Controller
9204 ZX-E USB eXtensible Host Controller
9286 ZX-D eMMC Host Controller
9300 ZX-D/ZX-E eSPI Host Controller
95d0 ZX-100 Universal SD Host Controller
f410 ZX-100/ZX-D/ZX-E PCI Com Port
1d18 RME
0001 Fireface UFX+
1d1d CNEX Labs
1f1f QEMU NVM Express LightNVM Controller
2807 8800 series NVMe SSD
CEM Solutions Pvt. Ltd.
1d21 Allo
1d22 Baidu Technology
1380 Cloud Storage Device
1d26 Kalray Inc.
0040
Turbocard2 Accelerator
0080 Open Network Interface Card 80G
00c0 Turbocard3 Accelerator
0140 Open Network Interface Card 40G
e004 AB01/EMB01 Development Board
1d37 NovaSparks
0013 PM3
0014 PM4

0015 PM4edge
0016 PM4edge User Device
1d40 Techman Electronics (Changshu) Co., Ltd.
1d44 DPT
a400 PM2x24/PM3224
1d49 Lenovo
1d4c Diamanti, Inc.
1d5c Fantasia Trading LLC
1d61 Technobox, Inc.
1d62 Nebbiolo Technologies
1d65 Imagine Communications Corp.
04de Taurus/McKinley
1d6a Aquantia Corp.
0001 AQC107 NBase-T/IEEE 802.3bz Ethernet Controller [AQtion]
07b1 AQC107 NBase-T/IEEE 802.3bz Ethernet Controller [AQtion]
08b1 AQC108 NBase-T/IEEE 802.3bz Ethernet Controller [AQtion]
11b1 AQC111 NBase-T/IEEE 802.3bz Ethernet Controller [AQtion]
12b1 AQC112 NBase-T/IEEE 802.3bz Ethernet Controller [AQtion]
87b1 AQC107 NBase-T/IEEE 802.3bz Ethernet Controller [AQtion]
d107 AQC107 NBase-T/IEEE 802.3bz Ethernet Controller [AQtion]
1043 8741 XG-C100C
d108 AQC108
NBase-T/IEEE 802.3bz Ethernet Controller [AQtion]
1d6c Atomic Rules LLC
1001 A5PL-E1
1002 A5PL-E7
1003 S5PEDS-AB
1004 KC705-K325
1005 ZC706-Z045
1006 KCU105-KU040
1007 XUSP3S-VU095 [Jasper]
1008 XUSPL4-VU065 [Mustang UltraScale]
1009 XUSPL4-VU3P [Mustang UltraScale+]
100a A10PL4-A10GX115
100b K35-2SFP
100c K35-4SFP
100d AR-ARKA-FX0 [Arkville 32B DPDK Data Mover]
1d6c 2001 DPDK-Aware Virtual Function [Arkville VF]
100e AR-ARKA-FX1 [Arkville 64B DPDK Data Mover]
1d6c 2001 DPDK-Aware Virtual Function [Arkville VF]
100f AR-ARKA-FX1 [Arkville 64B DPDK Data Mover for Versal]
1010 AR-ARKA-FX1 [Arkville 64B DPDK Data Mover for Agilex]
1011 AR-MAN-U50 [Manitou Class Accelerator for U50]
1012 AR-MAN-U200 [Manitou Class Accelerator for U200]
1013 AR-MAN-U250 [Manitou Class Accelerator for U250]
1014 AR-MAN-U280 [Manitou Class Accelerator for U280]
4200 A5PL-E1-10GETI [10 GbE Ethernet Traffic Instrument]
1d72 Xiaomi

1d78 DERA
1d7c Aerotech, Inc.
1d82
NETINT Technologies Inc.
0101 Codensity D400 SSD
0102 Codensity D408 PCIe Gen4 NVMe SSD
0202 Codensity T408 Video Encoding-Decoding Accelerator
1d87 Fuzhou Rockchip Electronics Co., Ltd
0100 RK3399 PCI Express Root Port
1808 RK1808 Neural Network Processor Card
1d8f Enyx
1d93 YADRO (KNS Group)
1d94 Chengdu Haiguang IC Design Co., Ltd.
1450 Root Complex
1451 I/O Memory Management Unit
1452 PCIe Dummy Host Bridge
1453 PCIE GPP Bridge
1454 Internal PCIe GPP Bridge 0 to Bus B
1455 PCIe Dummy Function
1456 PSPCCP Command DMA Processor
1458 10 Gb Ethernet Controller Port 0/Port1
1459 10 Gb Ethernet Controller Port 2/Port3
145a PCIe Dummy Function
145b PCIE Non-Transparent Bridge
145c USB3 XHCI
145d Switch upstream in PCIe
145e Switch downstream in PCIe
145f USB 3.0 Host controller
1460 Data Fabric: Device 18h; Function 0
1461 Data Fabric: Device 18h; Function 1
1462 Data Fabric: Device 18h; Function 2
1463 Data Fabric: Device 18h; Function
3
1464 Data Fabric: Device 18h; Function 4
1465 Data Fabric: Device 18h; Function 5
1466 Data Fabric: Device 18h; Function 6
1467 Data Fabric: Device 18h; Function 7
1468 NTBCCP
7901 FCH SATA Controller [AHCI mode]
7904 FCH SATA Controller [AHCI mode]
7906 FCH SD Flash Controller
790b FCH SMBus Controller
790e FCH LPC Bridge
1d95 Graphcore Ltd
0001 Colossus GC2 [C2]
0002 Colossus GC1 [S1]
1d9b Facebook, Inc.
0010 Networking DOM Engine

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 0011  IO Bridge
1da1  Teko Telecom S.r.l.
1da2  Sapphire Technology Limited
1da3  Habana Labs Ltd.
 0001  HL-1000 AI Inference Accelerator [Goya]
# PCIe accelerator card for Deep Learning training tasks
 1000  HL-2000 AI Training Accelerator [Gaudi]
1dbb  NGD Systems, Inc.
1dbf  Guizhou Huaxintong Semiconductor Technology Co., Ltd
 0401  StarDragon4800 PCI Express Root Port
1dc5  FADU Inc.
1dcd  Liqid Inc.
1dd8  Pensando Systems Inc
 1000  DSC Capri Upstream Port
  1dd8 4000  Naples 100Gb 2-port QSFP28 x16 8GB
  1dd8 4001
  Naples 100Gb 2-port QSFP28 x16 4GB
  1dd8 4002  Naples 25Gb 2-port SFP28 x8 4GB
 1001  DSC Virtual Downstream Port
  1dd8 4000  Naples 100Gb 2-port QSFP28 x16 8GB
  1dd8 4001  Naples 100Gb 2-port QSFP28 x16 4GB
  1dd8 4002  Naples 25Gb 2-port SFP28 x8 4GB
 1002  DSC Ethernet Controller
  1dd8 4000  Naples 100Gb 2-port QSFP28 x16 8GB
  1dd8 4001  Naples 100Gb 2-port QSFP28 x16 4GB
  1dd8 4002  Naples 25Gb 2-port SFP28 x8 4GB
 1003  DSC Ethernet Controller VF
  1dd8 4000  Naples 100Gb 2-port QSFP28 x16 8GB
  1dd8 4001  Naples 100Gb 2-port QSFP28 x16 4GB
  1dd8 4002  Naples 25Gb 2-port SFP28 x8 4GB
 1004  DSC Management Controller
  1dd8 4000  Naples 100Gb 2-port QSFP28 x16 8GB
  1dd8 4001  Naples 100Gb 2-port QSFP28 x16 4GB
  1dd8 4002  Naples 25Gb 2-port SFP28 x8 4GB
 1007  DSC Storage Accelerator
  1dd8 4000  Naples 100Gb 2-port QSFP28 x16 8GB
  1dd8 4001  Naples 100Gb 2-port QSFP28 x16 4GB
  1dd8 4002  Naples 25Gb 2-port SFP28 x8 4GB
1de0  Groq
 0000  Q100 Tensor Streaming Processor
1de1
  Tekram Technology Co.,Ltd.
 0391  TRM-S1040 [DC-315 / DC-395 series]
 2020  DC-390
 690c  690c
 dc29  DC290
1de5  Eideticom, Inc
 1000  IO Memory Controller
```

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 2000  NoLoad Hardware Development Kit
1def  Ampere Computing, LLC
 e005  eMAG PCI Express Root Port 0
 e006  eMAG PCI Express Root Port 1
 e007  eMAG PCI Express Root Port 2
 e008  eMAG PCI Express Root Port 3
 e009  eMAG PCI Express Root Port 4
 e00a  eMAG PCI Express Root Port 5
 e00b  eMAG PCI Express Root Port 6
 e00c  eMAG PCI Express Root Port 7
1df3  Ethernity Networks
 0201  ACE-NIC40 Programmable Network Accelerator
  1df3 0001  ENA1040
  1df3 0002  ENA1044
  1df3 0003  ENA1044S
 0202  ACE-NIC50 Programmable Network Accelerator
  1df3 0001  ENA2050F
  1df3 0002  ENA2050FS
 0203  ACE-NIC100 Programmable Network Accelerator
  1df3 0000  Maintenance Mode
  1df3 0001  ENA2080F
  1df3 0002  ENA2080FS
  1df3 0003  ENA2100F
  1df3 0004  ENA2040F
 0204  ACE-NIC-NID Programmable Network Accelerator
  1df3 0001  ENA1020Z
  1df3
 0002  ENA1020ZS
1df7  opencpi.org
 0001  ml605
 0002  alst4
 0003  alst4x
1dfc  JSC NT-COM
 1181  TDM 8 Port E1/T1/J1 Adapter
1e0f  KIOXIA Corporation
 0007  NVMe SSD Controller Cx6
1e17  Arnold & Richter Cine Technik GmbH & Co. Betriebs KG
1e24  Squirrels Research Labs
 0101  Acorn CLE-101
 0215  Acorn CLE-215
 021f  Acorn CLE-215+
 1525  Xilinx BCU-1525
# VU33P FPGA Accelerator
 1533  ForestKitten 33
# JungleCat VU33P Module
 1633  JCM33
# JungleCat VU35P Module
 1635  JCM35
```

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1e26  Fujitsu Client Computing Limited
1e36  Shanghai Enflame Technology Co. Ltd
 0001  T10 [CloudBlazer]
# nee Thinci, Inc
1e38  Blaize, Inc
1e3d  Burlywood, Inc
1e49  Yangtze Memory Technologies Co.,Ltd
1e4c  GSI Technology
# Associative Processing Unit chip
 0010  Gemini [ Lida ]
  1e4c 0120  SE120
1e57  Beijing Panyi Technology Co., Ltd
 0100  The device has already been deleted.
  0000 0100  PY8800 64GB Accelerator
1e6b  Axiado Corp.
1e89  ID Quantique SA
 0002  Quantis-PCIe-40M
 0003  Quantis-PCIe-240M
#
 aka SED Systems
1e94  Calian SED
# nee Tumsan Oy
1fc0  Ascom (Finland) Oy
 0300  E2200 Dual E1/Rawpipe Card
 0301  C5400 SHDSL/E1 Card
# nee PathScale, Inc
1fc1  QLogic, Corp.
 000d  IBA6110 InfiniBand HCA
 0010  IBA6120 InfiniBand HCA
1fc9  Tehuti Networks Ltd.
 3009  10-Giga TOE SmartNIC
 3010  10-Giga TOE SmartNIC
  0000 3002  10-Giga TOE Single Port XFP SmartNIC
  0000 3004  10-Giga TOE Single Port SFP+ SmartNIC
  0000 3008  10-Giga TOE Single Port CX4 SmartNIC
 3014  10-Giga TOE SmartNIC 2-Port
  0000 3003  10-Giga TOE Dual Port XFP Low Profile SmartNIC
  0000 3005  10-Giga TOE Dual Port SFP+ Low Profile SmartNIC
  0000 3014  10-Giga TOE Dual Port CX4 Low Profile SmartNIC
 3110  10-Giga TOE Single Port SmartNIC
  0000 3004  10-Giga TOE Single Port SFP+ SmartNIC
 3114  10-Giga TOE Dual Port Low Profile SmartNIC
  0000 3005  10-Giga TOE Dual Port SFP+ Low Profile SmartNIC
  0000 3011  10-Giga TOE Dual Port SFP+/CX4 Low Profile SmartNIC
  0000 3012  10-Giga TOE Dual Port CX4/SFP+
 Low Profile SmartNIC
  0000 3014  10-Giga TOE Dual Port CX4 Low Profile SmartNIC
 3310  10-Giga TOE SFP+ Single Port SmartNIC
```

0000 3004 10-Giga TOE Single Port SFP+ SmartNIC
3314 10-Giga TOE Dual Port Low Profile SmartNIC
0000 3005 10-Giga TOE Dual Port SFP+ Low Profile SmartNIC
0000 3011 10-Giga TOE Dual Port SFP+/CX4 Low Profile SmartNIC
0000 3012 10-Giga TOE Dual Port CX4/SFP+ Low Profile SmartNIC
0000 3014 10-Giga TOE Dual Port CX4 Low Profile SmartNIC
4010 TN4010 Clean SROM
4020 TN9030 10GbE CX4 Ethernet Adapter
180c 2040 Mustang-200 10GbE Ethernet Adapter
4022 TN9310 10GbE SFP+ Ethernet Adapter
1043 8709 XG-C100F 10GbE SFP+ Ethernet Adapter
1186 4d00 DXE-810S 10GbE SFP+ Ethernet Adapter
1432 8103 10 Gigabit Ethernet SFP+ PCI Express Adapter
1fc9 3015 Ethernet Adapter
4024 TN9210 10GBase-T Ethernet Adapter
4025 TN9510 10GBase-T/NBASE-T Ethernet Adapter
105a 7203 SANLink3 NBase-T1
1186 2900 DXE-810T 10GBase-T Ethernet Adapter
1432
8102 10 Gigabit Ethernet PCI Express Adapter
1fc9 3015 Ethernet Adapter
4026 TN9610 10GbE SFP+ Ethernet Adapter
4c52 1000 LREC6860AF 10 Gigabit Ethernet Adapter
4027 TN9710P 10GBase-T/NBASE-T Ethernet Adapter
1154 0368 LGY-PCIE-MG
1432 8104 10 Gigabit Ethernet PCI Express Adapter
1546 4027 GE10-PCIE4XG202P 10Gbase-T/NBASE-T Ethernet Adapter
1baa 3310 PCIe Expansion Card
1fc9 3015 Ethernet Adapter
4c52 1001 LREC6860BT 10 Gigabit Ethernet Adapter
4527 TN9710Q 5GBase-T/NBASE-T Ethernet Adapter
1fcc StreamLabs
f416 MS416
fb01 MH4LM
1fce Cognio Inc.
0001 Spectrum Analyzer PC Card (SAgE)
1fd4 SUNIX Co., Ltd.
0001 Matrix multiport serial adapter
1999 Multiport serial controller
2000 Smart Link Ltd.
2800 SmartPCI2800 V.92 PCI Soft DFT
2001 Temporal Research Ltd
2003 Smart Link Ltd.
8800 LM-I56N
2004 Smart Link Ltd.
2048 Beijing SpaceControl Technology Co.Ltd
20f4 TRENDnet
2116 ZyDAS Technology Corp.

21c3 21st Century Computer Corp.
22b8
Flex-Logix Technologies
22a0 Flex Logix InferX X1 Inference Accelerator
22db Missing Link Electronics, Inc.
2304 Colorgraphic Communications Corp.
2348 Racore
2010 8142 100VG/AnyLAN
2646 Kingston Technology Company, Inc.
270b Xantel Corporation
270f Chaintech Computer Co. Ltd
2711 AVID Technology Inc.
2955 Connectix Virtual PC
6e61 OHCI USB 1.1 controller
2a15 3D Vision(???)
2bd8 ROPEX Industrie-Elektronik GmbH
3000 Hansol Electronics Inc.
3112 Satelco Ingenieria S.A.
3130 AUDIOTRAK
3142 Post Impression Systems.
31ab Zonet
1faa ZEW1602 802.11b/g Wireless Adapter
3388 Hint Corp
0013 HiNT HC4 PCI to ISDN bridge, Multimedia audio controller
0014 HiNT HC4 PCI to ISDN bridge, Network controller
0020 HB6 Universal PCI-PCI bridge (transparent mode)
0021 HB6 Universal PCI-PCI bridge (non-transparent mode)
1775 c200 C2K CompactPCI interface bridge
1775 ce90 CE9
4c53 1050 CT7 mainboard
4c53 1080 CT8 mainboard
4c53 1090 Cx9 mainboard
4c53 10a0 CA3/CR3
mainboard
4c53 3010 PPCI mezzanine (32-bit PMC)
4c53 3011 PPCI mezzanine (64-bit PMC)
4c53 4000 PMCCARR1 carrier board
0022 HiNT HB4 PCI-PCI Bridge (PCI6150)
0026 HB2 PCI-PCI Bridge
1014 AudioTrak Maya
1018 Audiotrak INCA88
1019 Miditrak 2120
101a E.Band [AudioTrak Inca88]
101b E.Band [AudioTrak Inca88]
8011 VXPro II Chipset
3388 8011 VXPro II Chipset CPU to PCI Bridge
8012 VXPro II Chipset
3388 8012 VXPro II Chipset PCI to ISA Bridge

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 8013  VXPro II IDE
  3388 8013  VXPro II Chipset EIDE Controller
 a103  Blackmagic Design DeckLink HD Pro
3411  Quantum Designs (H.K.) Inc
3442  Bihl+Wiedemann GmbH
 1783  AS-i 3.0 cPCI Master
 1922  AS-i 3.0 PCI Master
3475  Arastra Inc.
3513  ARCOM Control Systems Ltd
37d9  ITD Firm ltd.
 1138  SCHD-PH-8 Phase detector
# 12-ch Relay Actuator Card
 1140  VR-12-PCI
# multiport serial board
 1141  PCI-485(422)
 1142  PCI-CAN2
3842  eVga.com. Corp.
38ef  4Links
3d3d  3DLabs
 0001  GLINT 300SX
 0002  GLINT 500TX
  0000
 0000  GLoria L
 0003  GLINT Delta
  0000 0000  GLoria XL
 0004  Permedia
 0005  Permedia
 0006  GLINT MX
  0000 0000  GLoria XL
  1048 0a42  GLoria XXL
 0007  3D Extreme
 0008  GLINT Gamma G1
  1048 0a42  GLoria XXL
 0009  Permedia II 2D+3D
  1040 0011  AccelStar II
  1048 0a42  GLoria XXL
  13e9 1000  6221L-4U
  3d3d 0100  AccelStar II 3D Accelerator
  3d3d 0111  Permedia 3:16
  3d3d 0114  Santa Ana
  3d3d 0116  Oxygen GVX1
  3d3d 0119  Scirocco
  3d3d 0120  Santa Ana PCL
  3d3d 0125  Oxygen VX1
  3d3d 0127  Permedia3 Create!
 000a  GLINT R3
  3d3d 0121  Oxygen VX1
 000c  GLINT R3 [Oxygen VX1]
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3d3d 0144 Oxygen VX1-4X AGP [Permedia 4]
000d GLint R4 rev A
000e GLINT Gamma G2
0011 GLint R4 rev B
0012 GLint R5 rev A
0013 GLint R5 rev B
0020 VP10 visual processor
0022 VP10 visual processor
0024 VP9 visual processor
002c Wildcat Realizm 100/200
0030 Wildcat Realizm 800
0032 Wildcat Realizm 500
0100 Permedia II 2D+3D
07a1 Wildcat III 6210
07a2 Sun XVR-500 Graphics
Accelerator
07a3 Wildcat IV 7210
1004 Permedia
3d04 Permedia
ffff Glint VGA
4005 Avance Logic Inc.
0300 ALS300 PCI Audio Device
0308 ALS300+ PCI Audio Device
0309 PCI Input Controller
1064 ALG-2064
2064 ALG-2064i
2128 ALG-2364A GUI Accelerator
2301 ALG-2301
2302 ALG-2302
2303 AVG-2302 GUI Accelerator
2364 ALG-2364A
2464 ALG-2464
2501 ALG-2564A/25128A
4000 ALS4000 Audio Chipset
4005 4000 ALS4000 Audio Chipset
4710 ALC200/200P
4033 Addtron Technology Co, Inc.
1360 RTL8139 Ethernet
4040 NetXen Incorporated
0001 NXB-10GXSR 10-Gigabit Ethernet PCIe Adapter with SR-XFP optical interface
103c 7047 NC510F PCIe 10-Gigabit Server Adapter
0002 NXB-10GCX4 10-Gigabit Ethernet PCIe Adapter with CX4 copper interface
103c 7048 NC510c PCIe 10-Gigabit Server Adapter
0003 NXB-4GCU Quad Gigabit Ethernet PCIe Adapter with 1000-BASE-T interface
0004 BladeCenter-H 10-Gigabit Ethernet High Speed Daughter Card
0005 NetXen Dual Port 10GbE Multifunction
Adapter for c-Class
103c 170e NC512m Dual Port 10GbE Multifunction BL-C Adapter

0024 XG Mgmt
0025 XG Mgmt
0100 NX3031 Multifunction 1/10-Gigabit Server Adapter
103c 171b NC522m Dual Port 10GbE Multifunction BL-c Adapter
103c 1740 NC375T PCI Express Quad Port Gigabit Server Adapter
103c 3251 NC375i 1G w/NC524SFP 10G Module
103c 705a NC375i Integrated Quad Port Multifunction Gigabit Server Adapter
103c 705b NC522SFP Dual Port 10GbE Server Adapter
152d 896b TG20 Dual Port 10GbE Server/Storage Adapter
4040 0124 NX3031 Quad Port Gigabit Server Adapter
4040 0126 Dual Port SFP+ 10GbE Server Adapter
4143 Digital Equipment Corp
4144 Alpha Data
0044 ADM-XRCIIPro
4150 ONA Electroerosion
0001 PCI32TLITE FILSTRUP1 PCI to VME Bridge Controller
0006 PCI32TLITE UART 16550 Opencores
0007 PCI32TLITE CAN Controller Opencores
415a Auzentech, Inc.
416c Aladdin Knowledge Systems
0100 AladdinCARD
0200 CPC
4254 DVBSky
4321 Tata Power Strategic Electronics
Division
4348 WCH.CN
2273 CH351 PCI Dual Serial Port Controller
3253 CH352 PCI Dual Serial Port Controller
3453 CH353 PCI Quad Serial Port Controller
5053 CH352 PCI Serial and Parallel Port Controller
7053 CH353 PCI Dual Serial and Parallel Ports Controller
7073 CH356 PCI Quad Serial and Parallel Ports Controller
7173 CH355 PCI Quad Serial Port Controller
434e CAST Navigation LLC
4444 Internext Compression Inc
0016 iTVC16 (CX23416) Video Decoder
0070 0003 WinTV PVR 250
0070 0009 WinTV PVR 150
0070 0801 WinTV PVR 150
0070 0807 WinTV PVR 150
0070 4001 WinTV PVR 250
0070 4009 WinTV PVR 250
0070 4801 WinTV PVR 250
0070 4803 WinTV PVR 250
0070 8003 WinTV PVR 150
0070 8801 WinTV PVR 150
0070 c801 WinTV PVR 150
0070 e807 WinTV PVR 500 (1st unit)

0070 e817 WinTV PVR 500 (2nd unit)
0070 ff92 WiNTV PVR-550
0270 0801 WinTV PVR 150
104d 013d ENX-26 TV Encoder
10fc d038 GV-MVP/RX2W (1st unit)
10fc d039 GV-MVP/RX2W (2nd unit)
12ab
fff3 MPG600
12ab ffff MPG600
1461 c00a M113 PCI Analog TV (PAL/SECAM, Philips FQ1216MK3 tuner)
1461 c00b M113 PCI Analog TV (PAL/SECAM+FM, Philips FM1216MK3 tuner)
1461 c00c M113 PCI Analog TV (NTSC, JAPAN version, Philips FI1286MK2 tuner)
1461 c010 M113 PCI Analog TV (NTSC, Philips FI1236MK3 tuner)
1461 c011 M113 PCI Analog TV (NTSC+FM, Philips FM1236MK3 tuner)
1461 c018 M113 PCI Analog TV (NTSC, Philips FQ1236MK5 tuner)
1461 c019 UltraTV 1500 MCE, a.k.a. M113 PCI Analog TV (NTSC+FM, Philips FQ1236MK5 tuner)
1461 c01a M113 PCI Analog TV (PAL/SECAM, Philips FQ1216MK5 tuner)
1461 c01b M113 PCI Analog TV (PAL/SECAM+FM, Philips FM1216MK5 tuner)
1461 c030 M113 PCI Analog TV (NTSC-J, Partsnic tuner)
1461 c031 M113 PCI Analog TV (NTSC-J+FM, Partsnic tuner)
1461 c032 M113 PCI Analog TV (PAL/SECAM, Partsnic tuner)
1461 c033 M113 PCI Analog TV (PAL/SECAM+FM, Partsnic tuner)
1461 c034 M113 PCI Analog TV (NTSC, Partsnic tuner)
1461 c035 M113
PCI Analog TV (NTSC+FM, Partsnic tuner)
1461 c03f C115 PCI video capture card (no tuner)
1461 c136 M104 mini-PCI Analog TV
1461 c20a M755 AVerTV Video Capture (PAL/SECAM, Philips FQ1216MK3 tuner)
1461 c218 M755 AVerTV Video Capture (NTSC, Philips FQ1236MK5 tuner)
1461 c219 M755 AVerTV Video Capture (NTSC+FM, Philips FQ1236MK5 tuner)
1461 c21a M755 AVerTV Video Capture (PAL/SECAM, Philips FQ1216MK5 tuner)
1461 c21b M755 AVerTV Video Capture (PAL/SECAM+FM, Philips FM1216MK5 tuner)
1461 c230 M755 AVerTV Video Capture (NTSC-J, Partsnic tuner)
1461 c231 M755 AVerTV Video Capture (NTSC-J+FM, Partsnic tuner)
1461 c232 M755 AVerTV Video Capture (PAL/SECAM, Partsnic tuner)
1461 c233 M755 AVerTV Video Capture (PAL/SECAM+FM, Partsnic tuner)
1461 c234 M755 AVerTV Video Capture (NTSC, Partsnic tuner)
1461 c235 M755 AVerTV Video Capture (NTSC+FM, Partsnic tuner)
1461 c337 E106 AVerMedia AVerTV Video Capture
1461 c439 M116 AVerMedia AVerTV MCE 116 Plus
(NTSC/PAL/SECAM+FM+REMOTE, Xceive 2028 tuner)
1461 c5ff C755 AVerTV Video Capture card (no tuner)
1461 c6ff C115 PCI video capture card (no tuner)
1461 c739 M785 AVerMedia PCI Analog TV (NTSC/PAL/SECAM+FM, Xceive 2028 tuner)
9005 0092 VideOh! AVC-2010
9005 0093 VideOh! AVC-2410
0803 iTVC15 (CX23415) Video Decoder
0070 4000 WinTV PVR-350

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	0070 4001  WinTV PVR-250
	0070 4800  WinTV PVR-350 (V1)
	12ab 0000  MPG160
	1461 a3ce  M179
	1461 a3cf  M179
4468  Bridgeport machines
4594  Cogetec Informatique Inc
45fb  Baldor Electric Company
4624  Budker Institute of Nuclear Physics
	adc1  ADC200ME High speed ADC
	de01  DL200ME High resolution delay line PCI based card
	de02  DL200ME Middle resolution delay line PCI based card
# Can't find any information on this company
4651  TXIC
4680  Umax Computer Corp
4843  Hercules Computer Technology Inc
4916  RedCreek Communications Inc
	1960  RedCreek PCI adapter
4943  Growth Networks
494f  ACCES I/O Products, Inc.
	0508  PCI-IDO-16A
	FET Output Card
	0518  PCI-IDO-32A FET Output Card
	0520  PCI-IDO-48 FET Output Card
	0521  PCI-IDO-48A FET Output Card
	0703  PCIe-RO-4 Electromechanical Relay Output Card
	07d0  PCIe-IDO-24 FET Output Card
	0920  PCI-IDI-48 Isolated Digital Input Card
	0bd0  PCIe-IDI-24 Isolated Digital Input Card
	0c50  PCI-DIO-24H 1x 8255 Digital Input / Output Card
	0c51  PCI-DIO-24D 1x 8255 Digital Input / Output Card
	0c52  PCIe-DIO-24 1x 8255 Digital Input / Output Card
	0c53  PCIe-DIO-24H 8255 Digital Input / Output Card
	0c57  mPCIe-DIO-24 8255 Digital Input / Output Card
	0c60  PCI-DIO-48H 8255 Digital Input / Output Card
	0c61  PCIe-DIO-48 8255 Digital Input / Output Card
	0c62  P104-DIO-48 8255 Digital Input / Output Card
	0c68  PCI-DIO-72 8255 Digital Input / Output Card
	0c69  P104-DIO-96 8255 Digital Input / Output Card
	0c70  PCI-DIO-96 8255 Digital Input / Output Card
	0c78  PCI-DIO-120 8255 Digital Input / Output Card
	0dc8  PCI-IDIO-16 Isolated Digital Input / FET Output Card
	0e50
	 PCI-DIO-24S 8255 Digital Input / Output Card
	0e51  PCI-DIO-24H(C) 8255 Digital Input / Output Card
	0e52  PCI-DIO-24D(C) 8255 Digital Input / Output Card
	0e53  PCIe-DIO-24S 8255 Digital Input / Output Card
	0e54  PCIe-DIO-24HS 8255 Digital Input / Output Card
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0e55 PCIe-DIO-24DC 8255 Digital Input / Output Card
0e56 PCIe-DIO-24DCS 8255 Digital Input / Output Card
0e57 mPCIe-DIO-24S 8255 Digital Input / Output Card
0e60 PCI-DIO-48S 2x 8255 Digital Input / Output Card
0e61 PCIe-DIO-48S 2x 8255 Digital Input / Output Card
0e62 P104-DIO-48S 2x 8255 Digital Input / Output Card
0f00 PCI-IIRO-8 Isolated Digital / Relay Output Card
0f01 LPCI-IIRO-8 Isolated Digital / Relay Output Card
0f02 PCIe-IIRO-8 Isolated Digital / Relay Output Card
0f08 PCI-IIRO-16 Isolated Digital / Relay Output Card
0f09 PCIe-IIRO-16 Isolated Digital / Relay Output Card
0fc0 PCIe-IDIO-12 Isolated Digital Input / FET Output Card
0fc1 PCIe-IDI-12 Isolated Digital Input Card
0fc2 PCIe-IDO-12
FET Output Card
0fd0 PCIe-IDIO-24 Isolated Digital Input / FET Output Card
1050 PCI-422/485-2 2x RS422/RS484 Card
1051 PCIe-COM-2SRJ 2x RS422/RS484 Card w/RJ45 Connectors
1052 104I-COM-2S 2x RS422/RS484 PCI/104 Board
1053 mPCIe-COM-2S 2x RS422/RS484 PCI Express Mini Card
1058 PCI-COM422/4 4x RS422 Card
1059 PCI-COM485/4 4x RS485 Card
105a PCIe-COM422-4 4x RS422 Card
105b PCIe-COM485-4 4x RS485 Card
105c PCIe-COM-4SRJ 4x RS422/RS485 Card w/RJ45 Connectors
105d 104I-COM-4S 4x RS422/RS484 PCI/104 Board
105e mPCIe-COM-4S 4x RS422/RS484 PCI Express Mini Card
1068 PCI-COM422/8 8x RS422 Card
1069 PCI-COM485/8 8x RS485 Card
106a PCIe-COM422-8 8x RS422 Card
106b PCIe-COM485-8 8x RS485 Card
106c 104I-COM-8S 8x RS422/RS485 PCI/104 Board
1088 PCI-COM232/1 1x RS232 Card
1090 PCI-COM232/2 2x RS232 Card
1091 PCIe-COM232-2RJ 2x RS232 Card w/RJ45 Connectors
1093 mPCIe-COM232-2 2x RS232 PCI Express Mini Card
1098 PCIe-COM232-4 4x RS232 Card
1099 PCIe-COM232-4RJ
4x RS232 Card w/RJ45 Connectors
109b mPCIe-COM232-4 4x RS232 PCI Express Mini Card
10a8 P104-COM232-8 8x RS232 PC-104+ Board
10a9 PCIe-COM232-8 8x RS232 Card
10c9 PCI-COM-1S 1x RS422/RS485 Card
10d0 PCI-COM2S 2x RS422/RS485 Card
10d1 PCIe-COM-2SMRJ 2x RS232/RS422/RS485 Card w/RJ45 Connectors
10d2 104I-COM-2SM 2x RS232/RS422/RS485 PCI/104 Board
10d3 mPCIe-COM-2SM 2x RS232/RS422/RS485 PCI Express Mini Card
10d8 PCI-COM-4SM 4x RS232/RS422/RS485 Card

10d9 PCIe-COM-4SM 4x RS232/RS422/RS485 Card
10da PCIe-COM-4SMRJ 4x RS232/RS422/RS485 Card w/RJ45 Connectors
10db 104I-COM-4SM 4x RS232/RS422/RS485 PCI/104 Board
10dc mPCIe-COM-4SM 4x RS232/RS422/RS485 PCI Express Mini Card
10e8 PCI-COM-8SM 8x RS232/RS422/RS485 Card
10e9 PCIe-COM-8SM 8x RS232/RS422/RS485 Card
10ea 104I-COM-8SM 8x RS232/RS422/RS485 PCI-104 Board
1108 mPCIe-ICM485-1 1x Isolated RS485 PCI Express Mini Card
1110 mPCIe-ICM422-2 2x Isolated RS422 PCI Express Mini Card
1111 mPCIe-ICM485-2
2x Isolated RS485 PCI Express Mini Card
1118 mPCIe-ICM422-4 4x Isolated RS422 PCI Express Mini Card
1119 mPCIe-ICM485-4 4x Isolated RS485 PCI Express Mini Card
1148 PCI-ICM-1S 1x Isolated RS422/RS485 Card
1150 PCI-ICM-2S 2x Isolated RS422/RS485 Card
1152 PCIe-ICM-2S 2x Isolated RS422/RS485 Card
1158 PCI-ICM422/4 4x Isolated RS422 Card
1159 PCI-ICM485/4 4x Isolated RS485 Card
115a PCIe-ICM-4S 4x Isolated RS422/RS485 Card
1190 PCIe-ICM232-2 2x Isolated RS232 Card
1191 mPCIe-ICM232-2 2x Isolated RS232 PCI Express Mini Card
1198 PCIe-ICM232-4 4x Isolated RS232 Card
1199 mPCIe-ICM232-4 4x Isolated RS422 PCI Express Mini Card
11d0 PCIe-ICM-2SM 2x Isolated RS232/RS422/RS485 Card
11d8 PCIe-ICM-4SM 4x Isolated RS232/RS422/RS485 Card
1250 PCI-WDG-2S Watchdog and 2x Serial Card
12d0 PCI-WDG-IMPAC
2230 PCI-QUAD-8 8x Quadrature Input Card
2231 PCI-QUAD-4 4x Quadrature Input Card
22c0 PCI-WDG-CSM Watchdog Card
25c0 P104-WDG-E Watchdog PC/104+ Board
2c50 PCI-DIO-96CT
96x Digital Input / Output Card
2c58 PCI-DIO-96C3 96x Digital Input / Output Card w/3x 8254 Counter Card
2ee0 PCIe-DIO24S-CTR12 24x Digital Input / Output Card w/4x 8254 Counter Card
2fc0 P104-WDG-CSM Watchdog PC/104+ Board
2fc1 P104-WDG-CSMA Advanced Watchdog PC/104+ Board
5ed0 PCI-DAC
6c90 PCI-DA12-2 2x 12-bit Analog Output Card
6c98 PCI-DA12-4 4x 12-bit Analog Output Card
6ca0 PCI-DA12-6 6x 12-bit Analog Output Card
6ca8 PCI-DA12-8 8x 12-bit Analog Output Card
6ca9 PCI-DA12-8V
6cb0 PCI-DA12-16 16x 12-bit Analog Output Card
6cb1 PCI-DA12-16V
8ef0 P104-FAS16-16
aca8 PCI-AI12-16 12-bit 100kHz Analog Input Card
aca9 PCI-AI12-16A 12-bit 100kHz Analog Input w/FIFO Card

eca8 PCI-AIO12-16 12-bit 100kHz Analog Input w/2x Analog Output and FIFO Card
ecaa PCI-A12-16A 12-bit 100kHz Analog Input w/2x Analog Output and FIFO Card
ece8 LPCI-A16-16A 16-bit 500kHz Analog Input low-profile Card
ece9 LPCI-AIO16A 16-bit 500kHz Analog Input low-profile Card
4978
Axil Computer Inc
4a14 NetVin
5000 NV5000SC
4a14 5000 RT8029-Based Ethernet Adapter
4b10 Buslogic Inc.
4c48 LUNG HWA Electronics
4c52 LR-Link
4c53 SBS Technologies
0000 PLUSTEST device
4c53 3000 PLUSTEST card (PC104+)
4c53 3001 PLUSTEST card (PMC)
0001 PLUSTEST-MM device
4c53 3002 PLUSTEST-MM card (PMC)
4ca1 Seanix Technology Inc
4d51 MediaQ Inc.
0200 MQ-200
4d54 Microtechnica Co Ltd
4d56 MATRIX VISION GmbH
0000 [mvHYPERION-CLe/CLb] CameraLink PCI Express x1 Frame Grabber
0001 [mvHYPERION-CLf/CLm] CameraLink PCI Express x4 Frame Grabber
0010 [mvHYPERION-16R16/-32R16] 16 Video Channel PCI Express x4 Frame Grabber
0020 [mvHYPERION-HD-SDI] HD-SDI PCI Express x4 Frame Grabber
0030 [mvHYPERION-HD-SDI-Merger] HD-SDI PCI Express x4 Frame Grabber
4ddc ILC Data Device Corp
0100 DD-42924I5-300 (ARINC 429 Data Bus)
0300 SB-3620 Motion Feedback Device
0340 SB-3623 Motion Feedback Device
0400 SB-3622 Motion Feedback Device
0500 SB-3621 Motion
Feedback Device
0510 SB-3624 Motion Feedback Device
0801 BU-65570I1 MIL-STD-1553 Test and Simulation
0802 BU-65570I2 MIL-STD-1553 Test and Simulation
0811 BU-65572I1 MIL-STD-1553 Test and Simulation
0812 BU-65572I2 MIL-STD-1553 Test and Simulation
0881 BU-65570T1 MIL-STD-1553 Test and Simulation
0882 BU-65570T2 MIL-STD-1553 Test and Simulation
0891 BU-65572T1 MIL-STD-1553 Test and Simulation
0892 BU-65572T2 MIL-STD-1553 Test and Simulation
0901 BU-65565C1 MIL-STD-1553 Data Bus
0902 BU-65565C2 MIL-STD-1553 Data Bus
0903 BU-65565C3 MIL-STD-1553 Data Bus
0904 BU-65565C4 MIL-STD-1553 Data Bus

0b01 BU-65569I1 MIL-STD-1553 Data Bus
0b02 BU-65569I2 MIL-STD-1553 Data Bus
0b03 BU-65569I3 MIL-STD-1553 Data Bus
0b04 BU-65569I4 MIL-STD-1553 Data Bus
0d01 SB-3641 Motion Feedback Device
0d10 SB-365x Motion Feedback Device
2f00 SB-3642 Motion Feedback Device
3000 SB-3644 Motion Feedback Device
5045 University of Toronto
4243 BLASTbus PCI Interface Card v1
5046
GemTek Technology Corporation
1001 PCI Radio
5053 Voyetra Technologies
2010 Daytona Audio Adapter
50b2 TerraTec Electronic GmbH
5136 S S Technologies
5143 Qualcomm Inc
5145 Ensoniq (Old)
3031 Concert AudioPCI
5168 Animation Technologies Inc.
0300 FlyDVB-S
0301 FlyDVB-T
5301 Alliance Semiconductor Corp.
0001 ProMotion aT3D
5333 S3 Graphics Ltd.
0551 Plato/PX (system)
5631 86c325 [ViRGE]
8800 86c866 [Vision 866]
8801 86c964 [Vision 964]
8810 86c764_0 [Trio 32 vers 0]
8811 86c764/765 [Trio32/64/64V+]
8812 86cM65 [Aurora64V+]
8813 86c764_3 [Trio 32/64 vers 3]
8814 86c767 [Trio 64UV+]
8815 86cM65 [Aurora 128]
883d 86c988 [ViRGE/VX]
8870 FireGL
8880 86c868 [Vision 868 VRAM] vers 0
8881 86c868 [Vision 868 VRAM] vers 1
8882 86c868 [Vision 868 VRAM] vers 2
8883 86c868 [Vision 868 VRAM] vers 3
88b0 86c928 [Vision 928 VRAM] vers 0
88b1 86c928 [Vision 928 VRAM] vers 1
88b2 86c928 [Vision 928 VRAM] vers 2
88b3 86c928 [Vision 928 VRAM]
vers 3
88c0 86c864 [Vision 864 DRAM] vers 0

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88c1  86c864 [Vision 864 DRAM] vers 1
88c2  86c864 [Vision 864-P DRAM] vers 2
88c3  86c864 [Vision 864-P DRAM] vers 3
88d0  86c964 [Vision 964 VRAM] vers 0
88d1  86c964 [Vision 964 VRAM] vers 1
88d2  86c964 [Vision 964-P VRAM] vers 2
88d3  86c964 [Vision 964-P VRAM] vers 3
88f0  86c968 [Vision 968 VRAM] rev 0
88f1  86c968 [Vision 968 VRAM] rev 1
88f2  86c968 [Vision 968 VRAM] rev 2
88f3  86c968 [Vision 968 VRAM] rev 3
8900  86c755 [Trio 64V2/DX]
 5333 8900  86C775 Trio64V2/DX
8901  86c775/86c785 [Trio 64V2/DX or /GX]
 5333 8901  86C775 Trio64V2/DX, 86C785 Trio64V2/GX
8902  Plato/PX
8903  Trio 3D business multimedia
8904  86c365, 86c366 [Trio 3D]
 1014 00db  Integrated Trio3D
 4843 314a  Terminator 128/3D GLH
 5333 8904  86C365 Trio3D AGP
8905  Trio 64V+ family
8906  Trio 64V+ family
8907  Trio 64V+ family
8908  Trio 64V+ family
8909  Trio 64V+ family
890a  Trio 64V+ family
890b  Trio 64V+ family
890c  Trio 64V+
family
890d  Trio 64V+ family
890e  Trio 64V+ family
890f  Trio 64V+ family
8a01  86c375 [ViRGE/DX] or 86c385 [ViRGE/GX]
 0e11 b032  ViRGE/GX
 10b4 1617  Nitro 3D
 10b4 1717  Nitro 3D
 5333 8a01  ViRGE/DX
8a10  ViRGE/GX2
 1092 8a10  Stealth 3D 4000
8a13  86c360 [Trio 3D/1X], 86c362, 86c368 [Trio 3D/2X]
 5333 8a13  Trio3D/2X
8a20  86c794 [Savage 3D]
 5333 8a20  86C391 Savage3D
8a21  86c390 [Savage 3D/MV]
 5333 8a21  86C390 Savage3D/MV
8a22  Savage 4
 1033 8068  Savage 4
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1033 8069  Savage 4
1033 8110  Savage 4 LT
105d 0018  SR9 8Mb SDRAM
105d 002a  SR9 Pro 16Mb SDRAM
105d 003a  SR9 Pro 32Mb SDRAM
105d 092f  SR9 Pro+ 16Mb SGRAM
1092 4207  Stealth III S540
1092 4800  Stealth III S540
1092 4807  SpeedStar A90
1092 4808  Stealth III S540
1092 4809  Stealth III S540
1092 480e  Stealth III S540
1092 4904  Stealth III S520
1092 4905  SpeedStar A200
1092 4a09  Stealth III S540
1092 4a0b  Stealth III S540 Xtreme
1092 4a0f  Stealth III S540
1092
4e01  Stealth III S540
1102 101d  3d Blaster Savage 4
1102 101e  3d Blaster Savage 4
5333 8100  86C394-397 Savage4 SDRAM 100
5333 8110  86C394-397 Savage4 SDRAM 110
5333 8125  86C394-397 Savage4 SDRAM 125
5333 8143  86C394-397 Savage4 SDRAM 143
5333 8a22  86C394-397 Savage4
5333 8a2e  86C394-397 Savage4 32bit
5333 9125  86C394-397 Savage4 SGRAM 125
5333 9143  86C394-397 Savage4 SGRAM 143
8a23  Savage 4
8a25  ProSavage PM133
0303 0303  D9840-60001 [Brio BA410 Motherboard]
8a26  ProSavage KM133
8c00  ViRGE/M3
8c01  ViRGE/MX
1179 0001  ViRGE/MX
8c02  ViRGE/MX+
8c03  ViRGE/MX+MV
8c10  86C270-294 [SavageMX-MV]
8c11  82C270-294 [SavageMX]
8c12  86C270-294 [SavageIX-MV]
1014 017f  ThinkPad T20/T22
1179 0001  86C584 SuperSavage/IXC Toshiba
8c13  86C270-294 [SavageIX]
1179 0001  Magnia Z310
8c22  SuperSavage MX/128
8c24  SuperSavage MX/64
8c26  SuperSavage MX/64C
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8c2a SuperSavage IX/128 SDR
8c2b SuperSavage IX/128 DDR
8c2c SuperSavage IX/64
SDR
8c2d SuperSavage IX/64 DDR
8c2e SuperSavage IX/C SDR
1014 01fc ThinkPad T23
8c2f SuperSavage IX/C DDR
8d01 86C380 [ProSavageDDR K4M266]
8d02 VT8636A [ProSavage KN133] AGP4X VGA Controller (TwisterK)
8d03 VT8751 [ProSavageDDR P4M266]
8d04 VT8375 [ProSavage8 KM266/KL266]
8e00 DeltaChrome
8e26 ProSavage
8e40 2300E Graphics Processor
8e48 Matrix [Chrome S25 / S27]
5333 0130 Chrome S27 256M DDR2
9043 Chrome 430 GT
9045 Chrome 430 ULP / 435 ULP / 440 GTX
9060 Chrome 530 GT
9102 86C410 [Savage 2000]
1092 5932 Viper II Z200
1092 5934 Viper II Z200
1092 5952 Viper II Z200
1092 5954 Viper II Z200
1092 5a35 Viper II Z200
1092 5a37 Viper II Z200
1092 5a55 Viper II Z200
1092 5a57 Viper II Z200
ca00 SonicVibes
5431 AuzenTech, Inc.
544c Teralogic Inc
0350 TL880-based HDTV/ATSC tuner
544d TBS Technologies
6178 DVB Tuner PCIe Card
544d 6904 TBS6904 DVB-S2 Quad Tuner PCIe Card
544d 6905 TBS6905 DVB-S2 Quad Tuner PCIe Card
6205
0001 TBS6205 DVB-T2/T/C Quad TV Tuner PCIe Card
6209 0001 TBS6209 DVB-T2/C2/T/C/ISDB-T OctaTV Tuner
5452 SCANLAB AG
3443 RTC4
5455 Technische Universitaet Berlin
4458 S5933
5456 GoTView
5519 Cnet Technologies, Inc.
5544 Dunord Technologies
0001 I-30xx Scanner Interface

```
5555  Genroco, Inc
 0003  TURBOstor HFP-832 [HiPPI NIC]
 3b00  Epiphan DVI2PCIe video capture card
5646  Vector Fabrics BV
5654  VoiceTronix Pty Ltd
5678  Dawicontrol Computersysteme GmbH
5700  Netpower
# alternately Extreme Engineering Solutions, Inc.
5845  X-ES, Inc.
584d  AuzenTech Co., Ltd.
5851  Exacq Technologies
 8008  tDVR8008 8-port video capture card
 8016  tDVR8016 16-chan video capture card
 8032  tDVR8032 32-chan video capture card
5853  XenSource, Inc.
 0001  Xen Platform Device
 c000  Citrix XenServer PCI Device for Windows Update
# Virtual device surfaced in guests to provide HID events.
 c110  Virtualized HID
# Device surfaced in guests to provide 2d graphics capabilities
 c147  Virtualized
 Graphics Device
 c200  XCP-ng Project PCI Device for Windows Update
5854  GoTView
5ace  Beholder International Ltd.
6205  TBS Technologies (wrong ID)
6209  TBS Technologies (wrong ID)
631c  SmartInfra Ltd
 1652  PXI-1652 Signal Generator
 2504  PXI-2504 Signal Interrogator
6356  UltraStor
6374  c't Magazin fuer Computertechnik
 6773  GPPCI
6409  Logitec Corp.
6549  Teradici Corp.
 1200  TERA1200 PC-over-IP Host
6666  Decision Computer International Co.
 0001  PCCOM4
 0002  PCCOM8
 0004  PCCOM2
 0101  PCI 8255/8254 I/O Card
 0200  12-bit AD/DA Card
 0201  14-bit AD/DA Card
 1011  Industrial Card
 1021  8 photo couple 8 relay Card
 1022  4 photo couple 4 relay Card
 1025  16 photo couple 16 relay Card
 4000  WatchDog Card
```

6688 Zycoo Co., Ltd
 1200 CooVox TDM Analog Module
 1400 CooVOX TDM GSM Module
 1600 CooVOX TDM E1/T1 Module
 1800 CooVOX TDM BRI Module
nee Qumranet
6900 Red Hat, Inc.
7063 pcHDTV
 2000 HD-2000
 3000 HD-3000
 5500 HD5500 HDTV
7284 HT OMEGA Inc.
7357
  IOxOS Technologies SA
 7910 7910 [Althea]
7401 EndRun Technologies
 e100 PTP3100 PCIe PTP Slave Clock
7470 TP-LINK Technologies Co., Ltd.
7604 O.N. Electronic Co Ltd.
7bde MIDAC Corporation
7fed PowerTV
8008 Quancom Electronic GmbH
 0010 WDOG1 [PCI-Watchdog 1]
 0011 PWDOG2 [PCI-Watchdog 2]
 0015 Clock77/PCI & Clock77/PCIe (DCF-77 receiver)
Wrong ID used in subsystem ID of AsusTek PCI-USB2 PCI card.
807d Asustek Computer, Inc.
8086 Intel Corporation
 0007 82379AB
 0008 Extended Express System Support Controller
 0039 21145 Fast Ethernet
 0040 Core Processor DRAM Controller
 0041 Core Processor PCI Express x16 Root Port
 0042 Core Processor Integrated Graphics Controller
 0043 Core Processor Secondary PCI Express Root Port
 0044 Core Processor DRAM Controller
  1025 0347 Aspire 7740G
  1025 0487 TravelMate 5742
  1028 040a Latitude E6410
  144d c06a R730 Laptop
  17c0 10d2 Medion Akoya E7214 Notebook PC [MD98410]
  e4bf 50c1 PC1-GROOVE
 0045 Core Processor
 PCI Express x16 Root Port
  17c0 10d2 Medion Akoya E7214 Notebook PC [MD98410]
 0046 Core Processor Integrated Graphics Controller
  1028 040a Latitude E6410
  144d c06a R730 Laptop

17c0 10d9 Medion Akoya E7214 Notebook PC [MD98410]
e4bf 50c1 PC1-GROOVE
0047 Core Processor Secondary PCI Express Root Port
0048 Core Processor DRAM Controller
0049 Core Processor PCI Express x16 Root Port
004a Core Processor Integrated Graphics Controller
004b Core Processor Secondary PCI Express Root Port
0050 Core Processor Thermal Management Controller
0069 Core Processor DRAM Controller
0082 Centrino Advanced-N 6205 [Taylor Peak]
8086 1301 Centrino Advanced-N 6205 AGN
8086 1306 Centrino Advanced-N 6205 ABG
8086 1307 Centrino Advanced-N 6205 BG
8086 1321 Centrino Advanced-N 6205 AGN
8086 1326 Centrino Advanced-N 6205 ABG
0083 Centrino Wireless-N 1000 [Condor Peak]
8086 1205 Centrino Wireless-N 1000 BGN
8086 1206 Centrino Wireless-N 1000 BG
8086 1225 Centrino
Wireless-N 1000 BGN
8086 1226 Centrino Wireless-N 1000 BG
8086 1305 Centrino Wireless-N 1000 BGN
8086 1306 Centrino Wireless-N 1000 BG
8086 1325 Centrino Wireless-N 1000 BGN
8086 1326 Centrino Wireless-N 1000 BG
0084 Centrino Wireless-N 1000 [Condor Peak]
8086 1215 Centrino Wireless-N 1000 BGN
8086 1216 Centrino Wireless-N 1000 BG
8086 1315 Centrino Wireless-N 1000 BGN
8086 1316 Centrino Wireless-N 1000 BG
0085 Centrino Advanced-N 6205 [Taylor Peak]
8086 1311 Centrino Advanced-N 6205 (802.11a/b/g/n)
8086 1316 Centrino Advanced-N 6205 ABG
0087 Centrino Advanced-N + WiMAX 6250 [Kilmer Peak]
8086 1301 Centrino Advanced-N + WiMAX 6250 2x2 AGN
8086 1306 Centrino Advanced-N + WiMAX 6250 2x2 ABG
8086 1321 Centrino Advanced-N + WiMAX 6250 2x2 AGN
8086 1326 Centrino Advanced-N + WiMAX 6250 2x2 ABG
0089 Centrino Advanced-N + WiMAX 6250 [Kilmer Peak]
8086 1311 Centrino Advanced-N + WiMAX 6250 2x2 AGN
8086 1316 Centrino Advanced-N +
WiMAX 6250 2x2 ABG
008a Centrino Wireless-N 1030 [Rainbow Peak]
8086 5305 Centrino Wireless-N 1030 BGN
8086 5307 Centrino Wireless-N 1030 BG
8086 5325 Centrino Wireless-N 1030 BGN
8086 5327 Centrino Wireless-N 1030 BG
008b Centrino Wireless-N 1030 [Rainbow Peak]

8086 5315 Centrino Wireless-N 1030 BGN
8086 5317 Centrino Wireless-N 1030 BG
0090 Centrino Advanced-N 6230 [Rainbow Peak]
8086 5211 Centrino Advanced-N 6230 AGN
8086 5215 Centrino Advanced-N 6230 BGN
8086 5216 Centrino Advanced-N 6230 ABG
0091 Centrino Advanced-N 6230 [Rainbow Peak]
8086 5201 Centrino Advanced-N 6230 AGN
8086 5205 Centrino Advanced-N 6230 BGN
8086 5206 Centrino Advanced-N 6230 ABG
8086 5207 Centrino Advanced-N 6230 BG
8086 5221 Centrino Advanced-N 6230 AGN
8086 5225 Centrino Advanced-N 6230 BGN
8086 5226 Centrino Advanced-N 6230 ABG
0100 2nd Generation Core Processor Family DRAM Controller
1028 04aa XPS 8300
1043 844d P8P67/P8H67 Series Motherboard
0101
Xeon E3-1200/2nd Generation Core Processor Family PCI Express Root Port
1028 04b2 Vostro 3350
106b 00dc MacBookPro8,2 [Core i7, 15", 2011]
144d c652 NP300E5C series laptop
0102 2nd Generation Core Processor Family Integrated Graphics Controller
1028 04aa XPS 8300
1043 0102 P8H67 Series Motherboard
0104 2nd Generation Core Processor Family DRAM Controller
1028 04a3 Precision M4600
1028 04b2 Vostro 3350
1028 04da Vostro 3750
106b 00dc MacBookPro8,2 [Core i7, 15", 2011]
144d c652 NP300E5C series laptop
17aa 21cf ThinkPad T520
0105 Xeon E3-1200/2nd Generation Core Processor Family PCI Express Root Port
106b 00dc MacBookPro8,2 [Core i7, 15", 2011]
0106 2nd Generation Core Processor Family Integrated Graphics Controller
0108 Xeon E3-1200 Processor Family DRAM Controller
0109 Xeon E3-1200/2nd Generation Core Processor Family PCI Express Root Port
010a Xeon E3-1200 Processor Family Integrated Graphics Controller
010b Xeon E3-1200/2nd
Generation Core Processor Family Integrated Graphics Controller
010c Xeon E3-1200/2nd Generation Core Processor Family DRAM Controller
010d Xeon E3-1200/2nd Generation Core Processor Family PCI Express Root Port
010e Xeon E3-1200/2nd Generation Core Processor Family Integrated Graphics Controller
0112 2nd Generation Core Processor Family Integrated Graphics Controller
0116 2nd Generation Core Processor Family Integrated Graphics Controller
1028 04da Vostro 3750
144d c652 integrated HD 3000 graphics controller on NP300E5C series laptop
0122 2nd Generation Core Processor Family Integrated Graphics Controller

0126 2nd Generation Core Processor Family Integrated Graphics Controller
 1028 04cc Vostro 3350
 17aa 21ce ThinkPad T420
 17aa 21cf ThinkPad T520
0150 Xeon E3-1200 v2/3rd Gen Core processor DRAM Controller
 1043 84ca P8 series motherboard
 1458 d000 Ivy Bridge GT1 [HD Graphics]
 15d9 0624 X9SCM-F Motherboard
 1849 0150 Motherboard
0151 Xeon E3-1200
v2/3rd Gen Core processor PCI Express Root Port
 1043 1477 N56VZ
 1043 844d P8 series motherboard
 1043 84ca P8H77-I Motherboard
 8086 2010 Server Board S1200BTS
0152 Xeon E3-1200 v2/3rd Gen Core processor Graphics Controller
 1043 84ca P8H77-I Motherboard
0153 3rd Gen Core Processor Thermal Subsystem
 1043 1517 Zenbook Prime UX31A
0154 3rd Gen Core processor DRAM Controller
 1025 0806 Aspire E1-470G
 1025 0813 Aspire R7-571
 103c 17f6 ProBook 4540s
 1043 108d VivoBook X202EV
 1043 1477 N56VZ
 1043 1517 Zenbook Prime UX31A
 10cf 16bf LIFEBOOK E752
0155 Xeon E3-1200 v2/3rd Gen Core processor PCI Express Root Port
 8086 2010 Server Board S1200BTS
0156 3rd Gen Core processor Graphics Controller
 1043 108d VivoBook X202EV
0158 Xeon E3-1200 v2/Ivy Bridge DRAM Controller
 1043 844d P8 series motherboard
 8086 2010 Server Board S1200BT Family
0159 Xeon E3-1200 v2/3rd Gen Core processor PCI Express Root Port
015a Xeon E3-1200 v2/Ivy Bridge
Graphics Controller
015c Xeon E3-1200 v2/3rd Gen Core processor DRAM Controller
015d Xeon E3-1200 v2/3rd Gen Core processor PCI Express Root Port
 1043 844d P8 series motherboard
015e Xeon E3-1200 v2/3rd Gen Core processor Graphics Controller
0162 Xeon E3-1200 v2/3rd Gen Core processor Graphics Controller
 1043 84ca P8 series motherboard
 1849 0162 Motherboard
0166 3rd Gen Core processor Graphics Controller
 1043 1517 Zenbook Prime UX31A
 1043 2103 N56VZ
 10cf 16c1 LIFEBOOK E752

016a Xeon E3-1200 v2/3rd Gen Core processor Graphics Controller
 1043 844d P8B WS Motherboard
0172 Xeon E3-1200 v2/3rd Gen Core processor Graphics Controller
0176 3rd Gen Core processor Graphics Controller
02a4 Comet Lake SPI (flash) Controller
02a6 Comet Lake North Peak
02d3 Comet Lake SATA AHCI Controller
02e0 Comet Lake Management Engine Interface
02e8 Serial IO I2C Host Controller
02e9 Comet Lake Serial IO I2C Host Controller
02f0 Wireless-AC 9462
02f9 Comet Lake
Thermal Subsytem
02fc Comet Lake Integrated Sensor Solution
0309 80303 I/O Processor PCI-to-PCI Bridge
030d 80312 I/O Companion Chip PCI-to-PCI Bridge
0326 6700/6702PXH I/OxAPIC Interrupt Controller A
 103c 3208 ProLiant DL140 G2
 1775 1100 CR11/VR11 Single Board Computer
0327 6700PXH I/OxAPIC Interrupt Controller B
 103c 3208 ProLiant DL140 G2
 1775 1100 CR11/VR11 Single Board Computer
0329 6700PXH PCI Express-to-PCI Bridge A
032a 6700PXH PCI Express-to-PCI Bridge B
032c 6702PXH PCI Express-to-PCI Bridge A
0330 80332 [Dobson] I/O processor (A-Segment Bridge)
0331 80332 [Dobson] I/O processor (A-Segment IOAPIC)
0332 80332 [Dobson] I/O processor (B-Segment Bridge)
0333 80332 [Dobson] I/O processor (B-Segment IOAPIC)
0334 80332 [Dobson] I/O processor (ATU)
0335 80331 [Lindsay] I/O processor (PCI-X Bridge)
0336 80331 [Lindsay] I/O processor (ATU)
0340 41210 [Lanai] Serial to Parallel PCI Bridge (A-Segment Bridge)
0341 41210 [Lanai] Serial to Parallel
PCI Bridge (B-Segment Bridge)
0370 80333 Segment-A PCIe Express to PCI-X bridge
0371 80333 A-Bus IOAPIC
0372 80333 Segment-B PCIe Express to PCI-X bridge
0373 80333 B-Bus IOAPIC
0374 80333 Address Translation Unit
0402 Xeon E3-1200 v3/4th Gen Core Processor Integrated Graphics Controller
0406 Haswell Integrated Graphics Controller
040a Xeon E3-1200 v3 Processor Integrated Graphics Controller
0412 Xeon E3-1200 v3/4th Gen Core Processor Integrated Graphics Controller
 17aa 309f ThinkCentre M83
0416 4th Gen Core Processor Integrated Graphics Controller
 17aa 220e ThinkPad T440p
041a Xeon E3-1200 v3 Processor Integrated Graphics Controller

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041e  4th Generation Core Processor Family Integrated Graphics Controller
0434  DH89XXCC Series QAT
0435  DH895XCC Series QAT
0436  DH8900CC Null Device
0438  DH8900CC Series Gigabit Network Connection
043a  DH8900CC Series Gigabit Fiber Network Connection
043c  DH8900CC Series Gigabit Backplane Network Connection
0440
 DH8900CC Series Gigabit SFP Network Connection
0442  DH89XXCC Series QAT Virtual Function
0443  DH895XCC Series QAT Virtual Function
0482  82375EB/SB PCI to EISA Bridge
0483  82424TX/ZX [Saturn] CPU to PCI bridge
0484  82378ZB/IB, 82379AB (SIO, SIO.A) PCI to ISA Bridge
0486  82425EX/ZX [Aries] PCIset with ISA bridge
04a3  82434LX/NX [Mercury/Neptune] Processor to PCI bridge
04d0  82437FX [Triton FX]
0500  E8870 Processor bus control
0501  E8870 Memory controller
# and registers common to both SPs
0502  E8870 Scalability Port 0
# and global performance monitoring
0503  E8870 Scalability Port 1
0510  E8870IO Hub Interface Port 0 registers (8-bit compatibility port)
0511  E8870IO Hub Interface Port 1 registers
0512  E8870IO Hub Interface Port 2 registers
0513  E8870IO Hub Interface Port 3 registers
0514  E8870IO Hub Interface Port 4 registers
0515  E8870IO General SIOH registers
0516  E8870IO RAS registers
0530  E8870SP Scalability Port 0 registers
0531  E8870SP
Scalability Port 1 registers
0532  E8870SP Scalability Port 2 registers
0533  E8870SP Scalability Port 3 registers
0534  E8870SP Scalability Port 4 registers
0535  E8870SP Scalability Port 5 registers
# (bi-interleave 0) and global registers that are neither per-port nor per-interleave
0536  E8870SP Interleave registers 0 and 1
# (bi-interleave 1)
0537  E8870SP Interleave registers 2 and 3
0600  RAID Controller
 8086 0136  SRCU31L
 8086 01af  SRCZCR
 8086 01c1  ICP Vortex GDT8546RZ
 8086 01f7  SCRU32
# uninitialized SRCU32 RAID Controller
061f  80303 I/O Processor
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068d Comet Lake LPC Controller
06a3 Comet Lake PCH SMBus Controller
06a4 Comet Lake PCH SPI Controller
06a8 Comet Lake PCH Serial IO UART Host Controller #0
06a9 Comet Lake PCH Serial IO UART Host Controller #1
06aa Comet Lake PCH Serial IO SPI Controller #0
06ab Comet Lake PCH Serial IO SPI Controller #1
06ac Comet Lake PCI Express Root Port #21
06b0 Comet Lake PCI Express Root Port #9
06c0 Comet
Lake PCI Express Root Port #17
06c8 Comet Lake PCH cAVS
06e0 Comet Lake HECI Controller
06e8 Comet Lake PCH Serial IO I2C Controller #0
06e9 Comet Lake PCH Serial IO I2C Controller #1
06ea Comet Lake PCH Serial IO I2C Controller #2
06eb Comet Lake PCH Serial IO I2C Controller #3
06ed Comet Lake USB 3.1 xHCI Host Controller
06ef Comet Lake PCH Shared SRAM
06f0 Wi-Fi 6 AX201
06f9 Comet Lake PCH Thermal Controller
06fb Comet Lake PCH Serial IO SPI Controller #2
0700 CE Media Processor A/V Bridge
0701 CE Media Processor NAND Flash Controller
0703 CE Media Processor Media Control Unit 1
0704 CE Media Processor Video Capture Interface
0707 CE Media Processor SPI Slave
0708 CE Media Processor 4100
0800 Moorestown SPI Ctrl 0
0801 Moorestown SPI Ctrl 1
0802 Moorestown I2C 0
0803 Moorestown I2C 1
0804 Moorestown I2C 2
0805 Moorestown Keyboard Ctrl
0806 Moorestown USB Ctrl
0807 Moorestown SD Host Ctrl 0
0808 Moorestown SD Host Ctrl 1
0809
Moorestown NAND Ctrl
080a Moorestown Audio Ctrl
080b Moorestown ISP
080c Moorestown Security Controller
080d Moorestown External Displays
080e Moorestown SCU IPC
080f Moorestown GPIO Controller
0810 Moorestown Power Management Unit
0811 Moorestown OTG Ctrl
0812 Moorestown SPI Ctrl 2

0813 Moorestown SC DMA
0814 Moorestown LPE DMA
0815 Moorestown SSP0
0817 Medfield Serial IO I2C Controller #3
0818 Medfield Serial IO I2C Controller #4
0819 Medfield Serial IO I2C Controller #5
081a Medfield GPIO Controller [Core]
081b Medfield Serial IO HSUART Controller #1
081c Medfield Serial IO HSUART Controller #2
081d Medfield Serial IO HSUART Controller #3
081e Medfield Serial IO HSUART DMA Controller
081f Medfield GPIO Controller [AON]
0820 Medfield SD Host Controller
0821 Medfield SDIO Controller #1
0822 Medfield SDIO Controller #2
0823 Medfield eMMC Controller #0
0824 Medfield eMMC Controller #1
0827 Medfield Serial IO DMA Controller
0828 Medfield
Power Management Unit
0829 Medfield USB Device Controller (OTG)
082a Medfield SCU IPC
082c Medfield Serial IO I2C Controller #0
082d Medfield Serial IO I2C Controller #1
082e Medfield Serial IO I2C Controller #2
0885 Centrino Wireless-N + WiMAX 6150
8086 1305 Centrino Wireless-N + WiMAX 6150 BGN
8086 1307 Centrino Wireless-N + WiMAX 6150 BG
8086 1325 Centrino Wireless-N + WiMAX 6150 BGN
8086 1327 Centrino Wireless-N + WiMAX 6150 BG
0886 Centrino Wireless-N + WiMAX 6150
8086 1315 Centrino Wireless-N + WiMAX 6150 BGN
8086 1317 Centrino Wireless-N + WiMAX 6150 BG
0887 Centrino Wireless-N 2230
8086 4062 Centrino Wireless-N 2230 BGN
8086 4462 Centrino Wireless-N 2230 BGN
0888 Centrino Wireless-N 2230
8086 4262 Centrino Wireless-N 2230 BGN
088e Centrino Advanced-N 6235
8086 4060 Centrino Advanced-N 6235 AGN
8086 4460 Centrino Advanced-N 6235 AGN
088f Centrino Advanced-N 6235
8086 4260 Centrino Advanced-N 6235 AGN
0890 Centrino
Wireless-N 2200
8086 4022 Centrino Wireless-N 2200 BGN
8086 4422 Centrino Wireless-N 2200 BGN
8086 4822 Centrino Wireless-N 2200 BGN

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0891  Centrino Wireless-N 2200
 8086 4222  Centrino Wireless-N 2200 BGN
0892  Centrino Wireless-N 135
 8086 0062  Centrino Wireless-N 135 BGN
 8086 0462  Centrino Wireless-N 135 BGN
0893  Centrino Wireless-N 135
 8086 0262  Centrino Wireless-N 135 BGN
0894  Centrino Wireless-N 105
 8086 0022  Centrino Wireless-N 105 BGN
 8086 0422  Centrino Wireless-N 105 BGN
 8086 0822  Centrino Wireless-N 105 BGN
0895  Centrino Wireless-N 105
 8086 0222  Centrino Wireless-N 105 BGN
0896  Centrino Wireless-N 130
 8086 5005  Centrino Wireless-N 130 BGN
 8086 5007  Centrino Wireless-N 130 BG
 8086 5025  Centrino Wireless-N 130 BGN
 8086 5027  Centrino Wireless-N 130 BG
0897  Centrino Wireless-N 130
 8086 5015  Centrino Wireless-N 130 BGN
 8086 5017  Centrino Wireless-N 130 BG
08a7  Quark SoC X1000 SDIO / eMMC Controller
08ae  Centrino Wireless-N
100
 8086 1005  Centrino Wireless-N 100 BGN
 8086 1007  Centrino Wireless-N 100 BG
 8086 1025  Centrino Wireless-N 100 BGN
 8086 1027  Centrino Wireless-N 100 BG
08af  Centrino Wireless-N 100
 8086 1015  Centrino Wireless-N 100 BGN
 8086 1017  Centrino Wireless-N 100 BG
08b1  Wireless 7260
# Wilkins Peak 2
 8086 4020  Dual Band Wireless-N 7260
# Wilkins Peak 2
 8086 402a  Dual Band Wireless-N 7260
# Wilkins Peak 2
 8086 4060  Dual Band Wireless-N 7260
# Wilkins Peak 2
 8086 4062  Wireless-N 7260
# Wilkins Peak 2
 8086 406a  Dual Band Wireless-N 7260
# Wilkins Peak 2
 8086 4070  Dual Band Wireless-AC 7260
# Wilkins Peak 2
 8086 4072  Dual Band Wireless-AC 7260
# Wilkins Peak 2
 8086 4160  Dual Band Wireless-N 7260
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# Wilkins Peak 2
  8086 4162  Wireless-N 7260
# Wilkins Peak 2
  8086 4170  Dual Band Wireless-AC 7260
# Wilkins Peak 2
  8086 4420  Dual Band Wireless-N 7260
# Wilkins Peak 2
  8086 4460  Dual Band Wireless-N 7260
# Wilkins Peak 2
  8086 4462  Wireless-N
 7260
# Wilkins Peak 2
  8086 446a  Dual Band Wireless-N 7260
# Wilkins Peak 2
  8086 4470  Dual Band Wireless-AC 7260
# Wilkins Peak 2
  8086 4472  Dual Band Wireless-AC 7260
# Wilkins Peak 2
  8086 4560  Dual Band Wireless-N 7260
# Wilkins Peak 2
  8086 4570  Dual Band Wireless-AC 7260
# Wilkins Peak 2
  8086 486e  Dual Band Wireless-AC 7260
# Wilkins Peak 2
  8086 4870  Dual Band Wireless-AC 7260
# Wilkins Peak 2
  8086 4a6c  Dual Band Wireless-AC 7260
# Wilkins Peak 2
  8086 4a6e  Dual Band Wireless-AC 7260
# Wilkins Peak 2
  8086 4a70  Dual Band Wireless-AC 7260
# Wilkins Peak 2
  8086 4c60  Dual Band Wireless-AC 7260
# Wilkins Peak 2
  8086 4c70  Dual Band Wireless-AC 7260
# Wilkins Peak 2
  8086 5070  Dual Band Wireless-AC 7260
# Wilkins Peak 2
  8086 5072  Dual Band Wireless-AC 7260
# Wilkins Peak 2
  8086 5170  Dual Band Wireless-AC 7260
# Wilkins Peak 2
  8086 5770  Dual Band Wireless-AC 7260
# Wilkins Peak 2
  8086 c020  Dual Band Wireless-N 7260
# Wilkins Peak 2
  8086 c02a
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  Dual Band Wireless-N 7260
# Wilkins Peak 2
  8086 c060  Dual Band Wireless-N 7260
# Wilkins Peak 2
  8086 c062  Wireless-N 7260
# Wilkins Peak 2
  8086 c06a  Dual Band Wireless-N 7260
# Wilkins Peak 2
  8086 c070  Dual Band Wireless-AC 7260
# Wilkins Peak 2
  8086 c072  Dual Band Wireless-AC 7260
# Wilkins Peak 2
  8086 c160  Dual Band Wireless-N 7260
# Wilkins Peak 2
  8086 c162  Wireless-N 7260
# Wilkins Peak 2
  8086 c170  Dual Band Wireless-AC 7260
# Wilkins Peak 2
  8086 c360  Dual Band Wireless-N 7260
# Wilkins Peak 2
  8086 c420  Dual Band Wireless-N 7260
# Wilkins Peak 2
  8086 c460  Dual Band Wireless-N 7260
# Wilkins Peak 2
  8086 c462  Wireless-N 7260
# Wilkins Peak 2
  8086 c470  Dual Band Wireless-AC 7260
# Wilkins Peak 2
  8086 c472  Dual Band Wireless-AC 7260
# Wilkins Peak 2
  8086 c560  Dual Band Wireless-N 7260
# Wilkins Peak 2
  8086 c570  Dual Band Wireless-AC 7260
# Wilkins Peak 2
  8086 c760  Dual Band Wireless-N 7260
# Wilkins Peak 2
  8086 c770  Dual Band Wireless-AC
 7260
# Wilkins Peak 2
  8086 cc60  Dual Band Wireless-AC 7260
# Wilkins Peak 2
  8086 cc70  Dual Band Wireless-AC 7260
 08b2  Wireless 7260
# Wilkins Peak 2
  8086 4220  Dual Band Wireless-N 7260
# Wilkins Peak 2
  8086 4260  Dual Band Wireless-N 7260
# Wilkins Peak 2
```

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  8086 4262  Wireless-N 7260
# Wilkins Peak 2
  8086 426a  Dual Band Wireless-N 7260
# Wilkins Peak 2
  8086 4270  Wireless-N 7260
# Wilkins Peak 2
  8086 4272  Dual Band Wireless-AC 7260
# Wilkins Peak 2
  8086 4360  Dual Band Wireless-N 7260
# Wilkins Peak 2
  8086 4370  Dual Band Wireless-AC 7260
# Wilkins Peak 2
  8086 c220  Dual Band Wireless-N 7260
# Wilkins Peak 2
  8086 c260  Dual Band Wireless-N 7260
# Wilkins Peak 2
  8086 c262  Wireless-N 7260
# Wilkins Peak 2
  8086 c26a  Dual Band Wireless-N 7260
# Wilkins Peak 2
  8086 c270  Dual Band Wireless-AC 7260
# Wilkins Peak 2
  8086 c272  Dual Band Wireless-AC 7260
# Wilkins Peak 2
  8086 c370  Dual Band Wireless-AC 7260
 08b3  Wireless 3160
# Wilkins Peak
 1
  8086 0060  Dual Band Wireless-N 3160
# Wilkins Peak 1
  8086 0062  Wireless-N 3160
# Wilkins Peak 1
  8086 0070  Dual Band Wireless-AC 3160
# Wilkins Peak 1
  8086 0072  Dual Band Wireless-AC 3160
# Wilkins Peak 1
  8086 0170  Dual Band Wireless-AC 3160
# Wilkins Peak 1
  8086 0172  Dual Band Wireless-AC 3160
# Wilkins Peak 1
  8086 0260  Dual Band Wireless-N 3160
# Wilkins Peak 1
  8086 0470  Dual Band Wireless-AC 3160
# Wilkins Peak 1
  8086 0472  Dual Band Wireless-AC 3160
# Wilkins Peak 1
  8086 1070  Dual Band Wireless-AC 3160
# Wilkins Peak 1
```

```
  8086 1170  Dual Band Wireless-AC 3160
# Wilkins Peak 1
  8086 8060  Dual Band Wireless N-3160
# Wilkins Peak 1
  8086 8062  Wireless N-3160
# Wilkins Peak 1
  8086 8070  Dual Band Wireless AC 3160
# Wilkins Peak 1
  8086 8072  Dual Band Wireless AC 3160
# Wilkins Peak 1
  8086 8170  Dual Band Wireless AC 3160
# Wilkins Peak 1
  8086 8172  Dual Band Wireless AC 3160
# Wilkins Peak 1
  8086 8470  Dual Band Wireless AC 3160
# Wilkins Peak
 1
  8086 8570  Dual Band Wireless AC 3160
 08b4  Wireless 3160
# Wilkins Peak 1
  8086 0270  Dual Band Wireless-AC 3160
# Wilkins Peak 1
  8086 0272  Dual Band Wireless-AC 3160
# Wilkins Peak 1
  8086 0370  Dual Band Wireless-AC 3160
# Wilkins Peak 1
  8086 8260  Dual Band Wireless AC 3160
# Wilkins Peak 1
  8086 8270  Dual Band Wireless AC 3160
# Wilkins Peak 1
  8086 8272  Dual Band Wireless AC 3160
# Wilkins Peak 1
  8086 8370  Dual Band Wireless AC 3160
# PowerVR SGX 545
 08cf  Atom Processor Z2760 Integrated Graphics Controller
 0934  Quark SoC X1000 I2C Controller and GPIO Controller
 0935  Quark SoC X1000 SPI Controller
 0936  Quark SoC X1000 HS-UART
 0937  Quark SoC X1000 10/100 Ethernet MAC
 0939  Quark SoC X1000 USB EHCI Host Controller / USB 2.0 Device
 093a  Quark SoC X1000 USB OHCI Host Controller
 0953  PCIe Data Center SSD
  8086 3702  DC P3700 SSD
  8086 3703  DC P3700 SSD [2.5" SFF]
  8086 3704  DC P3500 SSD [Add-in Card]
  8086 3705  DC P3500 SSD [2.5" SFF]
  8086 3709
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  DC P3600 SSD [Add-in Card]
  8086 370a  DC P3600 SSD [2.5" SFF]
  8086 370d  SSD 750 Series [Add-in Card]
  8086 370e  SSD 750 Series [2.5" SFF]
 0958  Quark SoC X1000 Host Bridge
 095a  Wireless 7265
# Stone Peak 2 AC
  8086 1010  Dual Band Wireless-AC 7265
# Stone Peak 2 AGN
  8086 5000  Dual Band Wireless-N 7265
# Stone Peak 2 BGN
  8086 5002  Wireless-N 7265
# Stone Peak 2 AGN
  8086 500a  Dual Band Wireless-N 7265
# Stone Peak 2 AC
  8086 5010  Dual Band Wireless-AC 7265
# Stone Peak 2 AC
  8086 5012  Dual Band Wireless-AC 7265
# Stone Peak 2 AGN
  8086 5020  Dual Band Wireless-N 7265
# Stone Peak 2 AGN
  8086 502a  Dual Band Wireless-N 7265
# Maple Peak AC
  8086 5090  Dual Band Wireless-AC 7265
# Stone Peak 2 AGN
  8086 5100  Dual Band Wireless-AC 7265
# Stone Peak 2 BGN
  8086 5102  Wireless-N 7265
# Stone Peak 2 AGN
  8086 510a  Dual Band Wireless-AC 7265
# Stone Peak 2 AC
  8086 5110  Dual Band Wireless-AC 7265
# Stone Peak 2 AC
  8086 5112  Dual Band Wireless-AC 7265
# Maple
 Peak AC
  8086 5190  Dual Band Wireless-AC 7265
# Stone Peak 2 AGN
  8086 5400  Dual Band Wireless-AC 7265
# Stone Peak 2 AC
  8086 5410  Dual Band Wireless-AC 7265
# Stone Peak 2 AC
  8086 5412  Dual Band Wireless-AC 7265
# Stone Peak 2 AGN
  8086 5420  Dual Band Wireless-N 7265
# Maple Peak AC
  8086 5490  Dual Band Wireless-AC 7265
# Stone Peak 2 AC
```

```
  8086 5510  Dual Band Wireless-AC 7265
# Maple Peak AC
  8086 5590  Dual Band Wireless-AC 7265
# Stone Peak 2 AGN
  8086 9000  Dual Band Wireless-AC 7265
# Stone Peak 2 AGN
  8086 900a  Dual Band Wireless-AC 7265
# Stone Peak 2 AC
  8086 9010  Dual Band Wireless-AC 7265
# Stone Peak 2 AC
  8086 9012  Dual Band Wireless-AC 7265
# Stone Peak 2 AC
  8086 9110  Dual Band Wireless-AC 7265
# Stone Peak 2 AC
  8086 9112  Dual Band Wireless-AC 7265
# Stone Peak 2 AC
  8086 9210  Dual Band Wireless-AC 7265
# Stone Peak 2 AC
  8086 9310  Dual Band Wireless-AC 7265
# Stone Peak 2 AGN
  8086 9400  Dual Band Wireless-AC 7265
# Stone Peak 2 AC
  8086
 9410  Dual Band Wireless-AC 7265
# Stone Peak 2 AC
  8086 9510  Dual Band Wireless-AC 7265
 095b  Wireless 7265
# Stone Peak 2 AGN
  8086 5200  Dual Band Wireless-N 7265
# Stone Peak 2 BGN
  8086 5202  Wireless-N 7265
# Stone Peak 2 AGN
  8086 520a  Dual Band Wireless-N 7265
# Stone Peak 2 AC
  8086 5210  Dual Band Wireless-AC 7265
# Stone Peak 2 AC
  8086 5212  Dual Band Wireless-AC 7265
# Maple Peak AC
  8086 5290  Dual Band Wireless-AC 7265
# Stone Peak 2 BGN
  8086 5302  Wireless-N 7265
# Stone Peak 2 AC
  8086 5310  Dual Band Wireless-AC 7265
# Stone Peak 2 AGN
  8086 9200  Dual Band Wireless-AC 7265
 095e  Quark SoC X1000 Legacy Bridge
 0960  80960RP (i960RP) Microprocessor/Bridge
 0962  80960RM (i960RM) Bridge
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0964 80960RP (i960RP) Microprocessor/Bridge
0a03 Haswell-ULT Thermal Subsystem
0a04 Haswell-ULT DRAM Controller
17aa 2214 ThinkPad X240
0a06 Haswell-ULT Integrated Graphics Controller
0a0c Haswell-ULT HD Audio Controller
17aa 2214 ThinkPad X240
0a16
Haswell-ULT Integrated Graphics Controller
17aa 2214 ThinkPad X240
0a22 Haswell-ULT Integrated Graphics Controller
0a26 Haswell-ULT Integrated Graphics Controller
0a2a Haswell-ULT Integrated Graphics Controller
0a2e Haswell-ULT Integrated Graphics Controller
0a53 DC P3520 SSD
0a54 NVMe Datacenter SSD [3DNAND, Beta Rock Controller]
1028 1fe1 Express Flash NVMe 1TB 2.5" U.2 (P4500)
1028 1fe2 Express Flash NVMe 2TB 2.5" U.2 (P4500)
1028 1fe3 Express Flash NVMe 4TB 2.5" U.2 (P4500)
1028 1fe4 Express Flash NVMe 4TB HHHL AIC (P4500)
1028 1fee Express Flash NVMe 1.6TB 2.5" U.2 (P4610)
1028 1fef Express Flash NVMe 3.2TB 2.5" U.2 (P4610)
1028 1ff0 Express Flash NVMe 6.4TB 2.5" U.2 (P4610)
1028 1fff Express Flash NVMe 8.0TB 2.5" U.2 (P4510)
1028 2003 Express Flash NVMe 1.0 TB 2.5" U.2 (P4510)
1028 2004 Express Flash NVMe 2.0TB 2.5" U.2 (P4510)
1028 2005 Express Flash NVMe 4.0TB 2.5" U.2 (P4510)
108e 4870 NVMe PCIe 3.0 SSD 6.4TB AIC (P4608)
108e
4871 NVMe PCIe 3.0 SSD 6.4TB 2.5-inch (P4600)
108e 4879 NVMe PCIe 3.0 SSD v2 6.4TB AIC (P4618)
108e 487a NVMe PCIe 3.0 SSD v2 6.4TB 2.5-inch (P4610)
1137 0227 NVMe Datacenter SSD [3DNAND] 1.6TB 2.5" U.2 (P4600)
1137 0228 NVMe Datacenter SSD [3DNAND] 2.0TB 2.5" U.2 (P4600)
1137 0229 NVMe Datacenter SSD [3DNAND] 3.2TB 2.5" U.2 (P4600)
1137 022b NVMe Datacenter SSD [3DNAND] 1.0TB 2.5" U.2 (P4500)
1137 022c NVMe Datacenter SSD [3DNAND] 2.0TB 2.5" U.2 (P4500)
1137 022d NVMe Datacenter SSD [3DNAND] 4.0TB 2.5" U.2 (P4500)
1137 0231 NVMe Datacenter SSD [3DNAND] 0.5TB 2.5" U.2 (P4501)
1137 0232 NVMe Datacenter SSD [3DNAND] 1.0TB 2.5" U.2 (P4501)
1137 0233 NVMe Datacenter SSD [3DNAND] 2.0TB 2.5" U.2 (P4501)
1137 0258 NVMe Datacenter SSD [3DNAND] 1.6TB 2.5" U.2 (P4610)
1137 025a NVMe Datacenter SSD [3DNAND] 3.2TB 2.5" U.2 (P4610)
1137 025b NVMe Datacenter SSD [3DNAND] 1.0TB 2.5" U.2 (P4510)
1137 025c NVMe Datacenter SSD [3DNAND] 2.0TB 2.5" U.2 (P4510)
1137
025d NVMe Datacenter SSD [3DNAND] 4.0TB 2.5" U.2 (P4510)
1137 025e NVMe Datacenter SSD [3DNAND] 8.0TB 2.5" U.2 (P4510)

1590 025d NVMe Datacenter SSD [3DNAND] 1.0TB 2.5" U.2 (P4500)
1590 025e NVMe Datacenter SSD [3DNAND] 2.0TB 2.5" U.2 (P4500)
1590 025f NVMe Datacenter SSD [3DNAND] 4.0TB 2.5" U.2 (P4500)
1590 0262 NVMe Datacenter SSD [3DNAND] 1.6TB 2.5" U.2 (P4600)
1590 0264 NVMe Datacenter SSD [3DNAND] 3.2TB 2.5" U.2 (P4600)
1590 0265 NVMe Datacenter SSD [3DNAND] 6.4TB 2.5" U.2 (P4600)
1590 026c NVMe Datacenter SSD [3DNAND] 4.0TB AIC (P4500)
1d49 4702 Thinksystem Intel P4500 NVMe U.2
1d49 4704 Thinksystem Intel P4500 NVMe AIC
1d49 4712 Thinksystem Intel P4600 NVMe U.2
1d49 4714 Thinksystem Intel P4600 NVMe AIC
1d49 4802 Thinksystem U.2 P4510 NVMe SSD
1d49 4812 Thinksystem U.2 P4610 NVMe SSD
8086 4308 Intel SSD D5-P4320 and D5-P4326
8086 4702 NVMe Datacenter SSD [3DNAND] SE 2.5" U.2 (P4500)
8086 4704 NVMe Datacenter SSD [3DNAND]
SE AIC (P4500)
8086 4712 NVMe Datacenter SSD [3DNAND] ME 2.5" U.2 (P4600)
8086 4714 NVMe Datacenter SSD [3DNAND] ME AIC (P4600)
8086 4802 NVMe Datacenter SSD [3DNAND] SE 2.5" U.2 (P4510)
8086 4804 NVMe Datacenter SSD [3DNAND] SE AIC (P4510)
8086 4805 NVMe Datacenter SSD [3DNAND] SE M.2 (P4511)
8086 4812 NVMe Datacenter SSD [3DNAND] ME 2.5" U.2 (P4610)
8086 4814 NVMe Datacenter SSD [3DNAND] ME AIC (P4610)
0a55 NVMe DC SSD [3DNAND, Beta Rock Controller]
1028 1fe5 Express Flash NVMe 1.6TB 2.5" U.2 (P4600)
1028 1fe6 Express Flash NVMe 2TB 2.5" U.2 (P4600)
1028 1fe7 Express Flash NVMe 3.2TB 2.5" U.2 (P4600)
1028 1fe8 Express Flash NVMe 2.0TB HHHL AIC (P4600)
1028 1fe9 Express Flash NVMe 4.0TB HHHL AIC (P4600)
0be0 Atom Processor D2xxx/N2xxx Integrated Graphics Controller
0be1 Atom Processor D2xxx/N2xxx Integrated Graphics Controller
105b 0d7c D270S/D250S Motherboard
0be2 Atom Processor D2xxx/N2xxx Integrated Graphics Controller
0be3 Atom
Processor D2xxx/N2xxx Integrated Graphics Controller
0be4 Atom Processor D2xxx/N2xxx Integrated Graphics Controller
0be5 Atom Processor D2xxx/N2xxx Integrated Graphics Controller
0be6 Atom Processor D2xxx/N2xxx Integrated Graphics Controller
0be7 Atom Processor D2xxx/N2xxx Integrated Graphics Controller
0be8 Atom Processor D2xxx/N2xxx Integrated Graphics Controller
0be9 Atom Processor D2xxx/N2xxx Integrated Graphics Controller
0bea Atom Processor D2xxx/N2xxx Integrated Graphics Controller
0beb Atom Processor D2xxx/N2xxx Integrated Graphics Controller
0bec Atom Processor D2xxx/N2xxx Integrated Graphics Controller
0bed Atom Processor D2xxx/N2xxx Integrated Graphics Controller
0bee Atom Processor D2xxx/N2xxx Integrated Graphics Controller
0bef Atom Processor D2xxx/N2xxx Integrated Graphics Controller

0bf0 Atom Processor D2xxx/N2xxx DRAM Controller
0bf1 Atom Processor D2xxx/N2xxx DRAM Controller
0bf2 Atom Processor D2xxx/N2xxx DRAM Controller
0bf3 Atom Processor
D2xxx/N2xxx DRAM Controller
0bf4 Atom Processor D2xxx/N2xxx DRAM Controller
0bf5 Atom Processor D2xxx/N2xxx DRAM Controller
 105b 0d7c D270S/D250S Motherboard
0bf6 Atom Processor D2xxx/N2xxx DRAM Controller
0bf7 Atom Processor D2xxx/N2xxx DRAM Controller
0c00 4th Gen Core Processor DRAM Controller
 17aa 309f ThinkCentre M83
0c01 Xeon E3-1200 v3/4th Gen Core Processor PCI Express x16 Controller
0c04 Xeon E3-1200 v3/4th Gen Core Processor DRAM Controller
 103c 1909 ZBook 15
 17aa 220e ThinkPad T440p
0c05 Xeon E3-1200 v3/4th Gen Core Processor PCI Express x8 Controller
0c08 Xeon E3-1200 v3 Processor DRAM Controller
0c09 Xeon E3-1200 v3/4th Gen Core Processor PCI Express x4 Controller
0c0c Xeon E3-1200 v3/4th Gen Core Processor HD Audio Controller
 17aa 220e ThinkPad T440p
 17aa 309f ThinkCentre M83
0c46 Atom Processor S1200 PCI Express Root Port 1
0c47 Atom Processor S1200 PCI Express Root Port 2
0c48 Atom Processor S1200 PCI Express Root Port
3
0c49 Atom Processor S1200 PCI Express Root Port 4
0c4e Atom Processor S1200 NTB Primary
0c50 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D QuickData Technology Device
0c51 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D QuickData Technology Device
0c52 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D QuickData Technology Device
0c53 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D QuickData Technology Device
0c54 Atom Processor S1200 Internal
0c55 Atom Processor S1200 DFX 1
0c56 Atom Processor S1200 DFX 2
0c59 Atom Processor S1200 SMBus 2.0 Controller 0
0c5a Atom Processor S1200 SMBus 2.0 Controller 1
0c5b Atom Processor S1200 SMBus Controller 2
0c5c Atom Processor S1200 SMBus Controller 3
0c5d Atom Processor S1200 SMBus Controller 4
0c5e Atom Processor S1200 SMBus Controller 5
0c5f Atom Processor S1200 UART
0c60 Atom Processor S1200 Integrated Legacy Bus
0c70 Atom Processor S1200 Internal
0c71 Atom Processor S1200 Internal
0c72 Atom Processor S1200 Internal
0c73 Atom Processor

S1200 Internal
0c74 Atom Processor S1200 Internal
0c75 Atom Processor S1200 Internal
0c76 Atom Processor S1200 Internal
0c77 Atom Processor S1200 Internal
0c78 Atom Processor S1200 Internal
0c79 Atom Processor S1200 Internal
0c7a Atom Processor S1200 Internal
0c7b Atom Processor S1200 Internal
0c7c Atom Processor S1200 Internal
0c7d Atom Processor S1200 Internal
0c7e Atom Processor S1200 Internal
0c7f Atom Processor S1200 Internal
0cf8 Ethernet Controller X710 Intel(R) FPGA Programmable Acceleration Card N3000 for Networking
 8086 0000 Ethernet Controller X710 Intel(R) FPGA Programmable Acceleration Card N3000 for Networking
 8086 0001 Ethernet Controller X710 Intel(R) FPGA Programmable Acceleration Card N3000 for Networking
0d00 Crystal Well DRAM Controller
0d01 Crystal Well PCI Express x16 Controller
0d04 Crystal Well DRAM Controller
0d05 Crystal Well PCI Express x8 Controller
0d09 Crystal Well PCI Express x4 Controller
0d0c Crystal Well
HD Audio Controller
0d16 Crystal Well Integrated Graphics Controller
0d26 Crystal Well Integrated Graphics Controller
0d36 Crystal Well Integrated Graphics Controller
0d4c Ethernet Connection (11) I219-LM
0d4d Ethernet Connection (11) I219-V
0d4e Ethernet Connection (10) I219-LM
0d4f Ethernet Connection (10) I219-V
0d53 Ethernet Connection (12) I219-LM
0d55 Ethernet Connection (12) I219-V
0d58 Ethernet Controller XXV710 Intel(R) FPGA Programmable Acceleration Card N3000 for Networking
 8086 0000 Ethernet Controller XXV710 Intel(R) FPGA Programmable Acceleration Card N3000 for Networking
 8086 0001 Ethernet Controller XXV710 Intel(R) FPGA Programmable Acceleration Card N3000 for Networking
0e00 Xeon E7 v2/Xeon E5 v2/Core i7 DMI2
 1028 04f7 Xeon E5 v2 on PowerEdge R320 server
 15d9 066b X9SRL-F
0e01 Xeon E7 v2/Xeon E5 v2/Core i7 PCI Express Root Port in DMI2 Mode
0e02 Xeon E7 v2/Xeon E5 v2/Core i7 PCI Express Root Port 1a
 1028 04f7 Xeon E5 v2 on PowerEdge
R320 server
0e03 Xeon E7 v2/Xeon E5 v2/Core i7 PCI Express Root Port 1b
0e04 Xeon E7 v2/Xeon E5 v2/Core i7 PCI Express Root Port 2a
0e05 Xeon E7 v2/Xeon E5 v2/Core i7 PCI Express Root Port 2b
0e06 Xeon E7 v2/Xeon E5 v2/Core i7 PCI Express Root Port 2c
0e07 Xeon E7 v2/Xeon E5 v2/Core i7 PCI Express Root Port 2d
0e08 Xeon E7 v2/Xeon E5 v2/Core i7 PCI Express Root Port 3a

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 1028 04f7  Xeon E5 v2 on PowerEdge R320 server
0e09  Xeon E7 v2/Xeon E5 v2/Core i7 PCI Express Root Port 3b
0e0a  Xeon E7 v2/Xeon E5 v2/Core i7 PCI Express Root Port 3c
0e0b  Xeon E7 v2/Xeon E5 v2/Core i7 PCI Express Root Port 3d
0e10  Xeon E7 v2/Xeon E5 v2/Core i7 IIO Configuration Registers
0e13  Xeon E7 v2/Xeon E5 v2/Core i7 IIO Configuration Registers
0e17  Xeon E7 v2/Xeon E5 v2/Core i7 IIO Configuration Registers
0e18  Xeon E7 v2/Xeon E5 v2/Core i7 IIO Configuration Registers
0e1c  Xeon E7 v2/Xeon E5 v2/Core i7 IIO Configuration Registers
0e1d  Xeon E7 v2/Xeon E5 v2/Core i7 R2PCIe
0e1e
 Xeon E7 v2/Xeon E5 v2/Core i7 UBOX Registers
0e1f  Xeon E7 v2/Xeon E5 v2/Core i7 UBOX Registers
0e20  Xeon E7 v2/Xeon E5 v2/Core i7 Crystal Beach DMA Channel 0
 1028 04f7  Xeon E5 v2 on PowerEdge R320 server
 15d9 066b  X9SRL-F
0e21  Xeon E7 v2/Xeon E5 v2/Core i7 Crystal Beach DMA Channel 1
 1028 04f7  Xeon E5 v2 on PowerEdge R320 server
 15d9 066b  X9SRL-F
0e22  Xeon E7 v2/Xeon E5 v2/Core i7 Crystal Beach DMA Channel 2
 1028 04f7  Xeon E5 v2 on PowerEdge R320 server
 15d9 066b  X9SRL-F
0e23  Xeon E7 v2/Xeon E5 v2/Core i7 Crystal Beach DMA Channel 3
 1028 04f7  Xeon E5 v2 on PowerEdge R320 server
 15d9 066b  X9SRL-F
0e24  Xeon E7 v2/Xeon E5 v2/Core i7 Crystal Beach DMA Channel 4
 1028 04f7  Xeon E5 v2 on PowerEdge R320 server
 15d9 066b  X9SRL-F
0e25  Xeon E7 v2/Xeon E5 v2/Core i7 Crystal Beach DMA Channel 5
 1028 04f7  Xeon E5 v2 on PowerEdge R320 server
 15d9 066b  X9SRL-F
0e26  Xeon E7 v2/Xeon E5 v2/Core i7 Crystal Beach DMA Channel 6
 1028 04f7  Xeon E5 v2 on
PowerEdge R320 server
 15d9 066b  X9SRL-F
0e27  Xeon E7 v2/Xeon E5 v2/Core i7 Crystal Beach DMA Channel 7
 1028 04f7  Xeon E5 v2 on PowerEdge R320 server
 15d9 066b  X9SRL-F
0e28  Xeon E7 v2/Xeon E5 v2/Core i7 VTd/Memory Map/Misc
 1028 04f7  Xeon E5 v2 on PowerEdge R320 server
 15d9 066b  X9SRL-F
0e29  Xeon E7 v2/Xeon E5 v2/Core i7 Memory Hotplug
0e2a  Xeon E7 v2/Xeon E5 v2/Core i7 IIO RAS
 1028 04f7  Xeon E5 v2 on PowerEdge R320 server
 15d9 066b  X9SRL-F
0e2c  Xeon E7 v2/Xeon E5 v2/Core i7 IOAPIC
 15d9 066b  X9SRL-F
0e2e  Xeon E7 v2/Xeon E5 v2/Core i7 CBDMA
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0e2f Xeon E7 v2/Xeon E5 v2/Core i7 CBDMA
0e30 Xeon E7 v2/Xeon E5 v2/Core i7 Home Agent 0
1028 04f7 Xeon E5 v2 on PowerEdge R320 server
0e32 Xeon E7 v2/Xeon E5 v2/Core i7 QPI Link 0
0e33 Xeon E7 v2/Xeon E5 v2/Core i7 QPI Link 1
0e34 Xeon E7 v2/Xeon E5 v2/Core i7 R2PCIe
1028 04f7 Xeon E5 v2 on PowerEdge R320 server
0e36 Xeon E7 v2/Xeon E5 v2/Core i7 QPI Ring Performance Ring Monitoring
1028 04f7 Xeon
E5 v2 on PowerEdge R320 server
0e37 Xeon E7 v2/Xeon E5 v2/Core i7 QPI Ring Performance Ring Monitoring
0e38 Xeon E7 v2/Xeon E5 v2/Core i7 Home Agent 1
0e3a Xeon E7 v2/Xeon E5 v2/Core i7 QPI Link 2
0e3e Xeon E7 v2/Xeon E5 v2/Core i7 QPI Ring Performance Ring Monitoring
0e3f Xeon E7 v2/Xeon E5 v2/Core i7 QPI Ring Performance Ring Monitoring
0e40 Xeon E7 v2/Xeon E5 v2/Core i7 QPI Link 2
0e41 Xeon E7 v2/Xeon E5 v2/Core i7 QPI Ring Registers
0e43 Xeon E7 v2/Xeon E5 v2/Core i7 QPI Link Reut 2
0e44 Xeon E7 v2/Xeon E5 v2/Core i7 QPI Link Reut 2
0e45 Xeon E7 v2/Xeon E5 v2/Core i7 QPI Link Agent Register
0e47 Xeon E7 v2/Xeon E5 v2/Core i7 QPI Link Agent Register
0e60 Xeon E7 v2/Xeon E5 v2/Core i7 Home Agent 1
0e68 Xeon E7 v2/Xeon E5 v2/Core i7 Integrated Memory Controller 1 Target Address/Thermal Registers
0e6a Xeon E7 v2/Xeon E5 v2/Core i7 Integrated Memory Controller 1 Channel Target Address Decoder Registers
0e6b Xeon E7 v2/Xeon E5 v2/Core i7 Integrated Memory
Controller 1 Channel Target Address Decoder Registers
0e6c Xeon E7 v2/Xeon E5 v2/Core i7 Integrated Memory Controller 1 Channel Target Address Decoder Registers
0e6d Xeon E7 v2/Xeon E5 v2/Core i7 Integrated Memory Controller 1 Channel Target Address Decoder Registers
0e71 Xeon E7 v2/Xeon E5 v2/Core i7 Integrated Memory Controller 0 RAS Registers
0e74 Xeon E7 v2/Xeon E5 v2/Core i7 R2PCIe
0e75 Xeon E7 v2/Xeon E5 v2/Core i7 R2PCIe
0e77 Xeon E7 v2/Xeon E5 v2/Core i7 QPI Ring Registers
0e79 Xeon E7 v2/Xeon E5 v2/Core i7 Integrated Memory Controller 1 RAS Registers
0e7d Xeon E7 v2/Xeon E5 v2/Core i7 UBOX Registers
0e7f Xeon E7 v2/Xeon E5 v2/Core i7 QPI Ring Registers
0e80 Xeon E7 v2/Xeon E5 v2/Core i7 QPI Link 0
0e81 Xeon E7 v2/Xeon E5 v2/Core i7 QPI Ring Registers
1028 04f7 Xeon E5 v2 on PowerEdge R320 server
0e83 Xeon E7 v2/Xeon E5 v2/Core i7 QPI Link Reut 0
0e84 Xeon E7 v2/Xeon E5 v2/Core i7 QPI Link Reut 0
0e85 Xeon E7 v2/Xeon E5 v2/Core i7 QPI Link Agent
Register
0e87 Xeon E7 v2/Xeon E5 v2/Core i7 QPI Registers
0e90 Xeon E7 v2/Xeon E5 v2/Core i7 QPI Link 1
0e93 Xeon E7 v2/Xeon E5 v2/Core i7 QPI Link 1
0e94 Xeon E7 v2/Xeon E5 v2/Core i7 QPI Link Reut 1
0e95 Xeon E7 v2/Xeon E5 v2/Core i7 QPI Link Agent Register
0ea0 Xeon E7 v2/Xeon E5 v2/Core i7 Home Agent 0

1028 04f7 Xeon E5 v2 on PowerEdge R320 server
0ea8 Xeon E7 v2/Xeon E5 v2/Core i7 Integrated Memory Controller 0 Target Address/Thermal Registers
0eaa Xeon E7 v2/Xeon E5 v2/Core i7 Integrated Memory Controller 0 Channel Target Address Decoder Registers
0eab Xeon E7 v2/Xeon E5 v2/Core i7 Integrated Memory Controller 0 Channel Target Address Decoder Registers
0eac Xeon E7 v2/Xeon E5 v2/Core i7 Integrated Memory Controller 0 Channel Target Address Decoder Registers
0ead Xeon E7 v2/Xeon E5 v2/Core i7 Integrated Memory Controller 0 Channel Target Address Decoder Registers
0eae Xeon E7 v2/Xeon E5 v2/Core i7 DDRIO Registers
0eaf Xeon E7 v2/Xeon E5 v2/Core i7 DDRIO
Registers
0eb0 Xeon E7 v2/Xeon E5 v2/Core i7 Integrated Memory Controller 1 Channel 0-3 Thermal Control 0
0eb1 Xeon E7 v2/Xeon E5 v2/Core i7 Integrated Memory Controller 1 Channel 0-3 Thermal Control 1
0eb2 Xeon E7 v2/Xeon E5 v2/Core i7 Integrated Memory Controller 1 Channel 0-3 ERROR Registers 0
0eb3 Xeon E7 v2/Xeon E5 v2/Core i7 Integrated Memory Controller 1 Channel 0-3 ERROR Registers 1
0eb4 Xeon E7 v2/Xeon E5 v2/Core i7 Integrated Memory Controller 1 Channel 0-3 Thermal Control 2
0eb5 Xeon E7 v2/Xeon E5 v2/Core i7 Integrated Memory Controller 1 Channel 0-3 Thermal Control 3
0eb6 Xeon E7 v2/Xeon E5 v2/Core i7 Integrated Memory Controller 1 Channel 0-3 ERROR Registers 2
0eb7 Xeon E7 v2/Xeon E5 v2/Core i7 Integrated Memory Controller 1 Channel 0-3 ERROR Registers 3
0ebc Xeon E7 v2/Xeon E5 v2/Core i7 DDRIO Registers
0ebe Xeon E7 v2/Xeon E5 v2/Core i7 DDRIO Registers
0ebf Xeon E7 v2/Xeon E5 v2/Core i7 DDRIO Registers
0ec0 Xeon E7 v2/Xeon E5 v2/Core i7 Power Control
Unit 0
0ec1 Xeon E7 v2/Xeon E5 v2/Core i7 Power Control Unit 1
0ec2 Xeon E7 v2/Xeon E5 v2/Core i7 Power Control Unit 2
0ec3 Xeon E7 v2/Xeon E5 v2/Core i7 Power Control Unit 3
0ec4 Xeon E7 v2/Xeon E5 v2/Core i7 Power Control Unit 4
0ec8 Xeon E7 v2/Xeon E5 v2/Core i7 System Address Decoder
0ec9 Xeon E7 v2/Xeon E5 v2/Core i7 Broadcast Registers
0eca Xeon E7 v2/Xeon E5 v2/Core i7 Broadcast Registers
0ed8 Xeon E7 v2/Xeon E5 v2/Core i7 DDRIO
0ed9 Xeon E7 v2/Xeon E5 v2/Core i7 DDRIO
0edc Xeon E7 v2/Xeon E5 v2/Core i7 DDRIO
0edd Xeon E7 v2/Xeon E5 v2/Core i7 DDRIO
0ede Xeon E7 v2/Xeon E5 v2/Core i7 DDRIO
0edf Xeon E7 v2/Xeon E5 v2/Core i7 DDRIO
0ee0 Xeon E7 v2/Xeon E5 v2/Core i7 Unicast Registers
0ee1 Xeon E7 v2/Xeon E5 v2/Core i7 Unicast Registers
0ee2 Xeon E7 v2/Xeon E5 v2/Core i7 Unicast Registers
0ee3 Xeon E7 v2/Xeon E5 v2/Core i7 Unicast Registers
0ee4 Xeon E7 v2/Xeon E5 v2/Core i7 Unicast Registers
0ee5 Xeon E7 v2/Xeon E5 v2/Core i7 Unicast Registers
0ee6
Xeon E7 v2/Xeon E5 v2/Core i7 Unicast Registers
0ee7 Xeon E7 v2/Xeon E5 v2/Core i7 Unicast Registers
0ee8 Xeon E7 v2/Xeon E5 v2/Core i7 Unicast Registers
0ee9 Xeon E7 v2/Xeon E5 v2/Core i7 Unicast Registers
0eea Xeon E7 v2/Xeon E5 v2/Core i7 Unicast Registers
0eeb Xeon E7 v2/Xeon E5 v2/Core i7 Unicast Registers

0eec Xeon E7 v2/Xeon E5 v2/Core i7 Unicast Registers
0eed Xeon E7 v2/Xeon E5 v2/Core i7 Unicast Registers
0eee Xeon E7 v2/Xeon E5 v2/Core i7 Unicast Registers
0ef0 Xeon E7 v2/Xeon E5 v2/Core i7 Integrated Memory Controller 0 Channel 0-3 Thermal Control 0
0ef1 Xeon E7 v2/Xeon E5 v2/Core i7 Integrated Memory Controller 0 Channel 0-3 Thermal Control 1
0ef2 Xeon E7 v2/Xeon E5 v2/Core i7 Integrated Memory Controller 0 Channel 0-3 ERROR Registers 0
0ef3 Xeon E7 v2/Xeon E5 v2/Core i7 Integrated Memory Controller 0 Channel 0-3 ERROR Registers 1
0ef4 Xeon E7 v2/Xeon E5 v2/Core i7 Integrated Memory Controller 0 Channel 0-3 Thermal Control 2
0ef5
Xeon E7 v2/Xeon E5 v2/Core i7 Integrated Memory Controller 0 Channel 0-3 Thermal Control 3
0ef6 Xeon E7 v2/Xeon E5 v2/Core i7 Integrated Memory Controller 0 Channel 0-3 ERROR Registers 2
0ef7 Xeon E7 v2/Xeon E5 v2/Core i7 Integrated Memory Controller 0 Channel 0-3 ERROR Registers 3
0ef8 Xeon E7 v2/Xeon E5 v2/Core i7 DDRIO
0ef9 Xeon E7 v2/Xeon E5 v2/Core i7 DDRIO
0efa Xeon E7 v2/Xeon E5 v2/Core i7 DDRIO
0efb Xeon E7 v2/Xeon E5 v2/Core i7 DDRIO
0efc Xeon E7 v2/Xeon E5 v2/Core i7 DDRIO
0efd Xeon E7 v2/Xeon E5 v2/Core i7 DDRIO
0f00 Atom Processor Z36xxx/Z37xxx Series SoC Transaction Register
0f04 Atom Processor Z36xxx/Z37xxx Series High Definition Audio Controller
0f06 Atom Processor Z36xxx/Z37xxx Series LPIO1 DMA Controller
0f08 Atom Processor Z36xxx/Z37xxx Series LPIO1 PWM Controller
0f09 Atom Processor Z36xxx/Z37xxx Series LPIO1 PWM Controller
0f0a Atom Processor Z36xxx/Z37xxx Series LPIO1 HSUART Controller #1
0f0c Atom Processor Z36xxx/Z37xxx Series LPIO1
HSUART Controller #2
0f0e Atom Processor Z36xxx/Z37xxx Series LPIO1 SPI Controller
0f12 Atom Processor E3800 Series SMBus Controller
0f14 Atom Processor Z36xxx/Z37xxx Series SDIO Controller
0f15 Atom Processor Z36xxx/Z37xxx Series SDIO Controller
0f16 Atom Processor Z36xxx/Z37xxx Series SDIO Controller
0f18 Atom Processor Z36xxx/Z37xxx Series Trusted Execution Engine
0f1c Atom Processor Z36xxx/Z37xxx Series Power Control Unit
0f20 Atom Processor E3800 Series SATA IDE Controller
0f21 Atom Processor E3800 Series SATA IDE Controller
0f22 Atom Processor E3800 Series SATA AHCI Controller
0f23 Atom Processor E3800 Series SATA AHCI Controller
0f28 Atom Processor Z36xxx/Z37xxx Series LPE Audio Controller
0f31 Atom Processor Z36xxx/Z37xxx Series Graphics & Display
0f34 Atom Processor Z36xxx/Z37xxx Series USB EHCI
0f35 Atom Processor Z36xxx/Z37xxx, Celeron N2000 Series USB xHCI
1025 0936 Aspire ES1
0f37 Atom Processor Z36xxx/Z37xxx Series OTG USB Device
0f38
Atom Processor Z36xxx/Z37xxx Series Camera ISP
0f40 Atom Processor Z36xxx/Z37xxx Series LPIO2 DMA Controller
0f41 Atom Processor Z36xxx/Z37xxx Series LPIO2 I2C Controller #1
0f42 Atom Processor Z36xxx/Z37xxx Series LPIO2 I2C Controller #2

0f43 Atom Processor Z36xxx/Z37xxx Series LPIO2 I2C Controller #3
0f44 Atom Processor Z36xxx/Z37xxx Series LPIO2 I2C Controller #4
0f45 Atom Processor Z36xxx/Z37xxx Series LPIO2 I2C Controller #5
0f46 Atom Processor Z36xxx/Z37xxx Series LPIO2 I2C Controller #6
0f47 Atom Processor Z36xxx/Z37xxx Series LPIO2 I2C Controller #7
0f48 Atom Processor E3800 Series PCI Express Root Port 1
0f4a Atom Processor E3800 Series PCI Express Root Port 2
0f4c Atom Processor E3800 Series PCI Express Root Port 3
0f4e Atom Processor E3800 Series PCI Express Root Port 4
0f50 Atom Processor E3800 Series eMMC 4.5 Controller
1000 82542 Gigabit Ethernet Controller (Fiber)
 0e11 b0df NC6132 Gigabit Ethernet Adapter (1000-SX)
 0e11 b0e0 NC6133 Gigabit
Ethernet Adapter (1000-LX)
 0e11 b123 NC6134 Gigabit Ethernet Adapter (1000-LX)
 1014 0119 Netfinity Gigabit Ethernet SX Adapter
 8086 1000 PRO/1000 Gigabit Server Adapter
1001 82543GC Gigabit Ethernet Controller (Fiber)
 0e11 004a NC6136 Gigabit Server Adapter
 1014 01ea Netfinity Gigabit Ethernet SX Adapter
 8086 1002 PRO/1000 F Server Adapter
 8086 1003 PRO/1000 F Server Adapter
1002 Pro 100 LAN+Modem 56 Cardbus II
 8086 200e Pro 100 LAN+Modem 56 Cardbus II
 8086 2013 Pro 100 SR Mobile Combo Adapter
 8086 2017 Pro 100 S Combo Mobile Adapter
1004 82543GC Gigabit Ethernet Controller (Copper)
 0e11 0049 NC7132 Gigabit Upgrade Module
 0e11 b1a4 NC7131 Gigabit Server Adapter
 1014 10f2 Gigabit Ethernet Server Adapter
 8086 1004 PRO/1000 T Server Adapter
 8086 2004 PRO/1000 T Server Adapter
1008 82544EI Gigabit Ethernet Controller (Copper)
 1014 0269 iSeries 1000/100/10 Ethernet Adapter
 1028 011b PowerEdge 1650/2550
 1028 011c PRO/1000 XT Network
Connection
 8086 1107 PRO/1000 XT Server Adapter
 8086 2107 PRO/1000 XT Server Adapter
 8086 2110 PRO/1000 XT Desktop Adapter
 8086 3108 PRO/1000 XT Network Connection
1009 82544EI Gigabit Ethernet Controller (Fiber)
 1014 0268 iSeries Gigabit Ethernet Adapter
 8086 1109 PRO/1000 XF Server Adapter
 8086 2109 PRO/1000 XF Server Adapter
100a 82540EM Gigabit Ethernet Controller
100c 82544GC Gigabit Ethernet Controller (Copper)
 8086 1112 PRO/1000 T Desktop Adapter

8086 2112 PRO/1000 T Desktop Adapter
100d 82544GC Gigabit Ethernet Controller (LOM)
1028 0123 PRO/1000 XT Network Connection
1079 891f 82544GC Based Network Connection
4c53 1080 CT8 mainboard
8086 110d 82544GC Based Network Connection
100e 82540EM Gigabit Ethernet Controller
1014 0265 PRO/1000 MT Network Connection
1014 0267 PRO/1000 MT Network Connection
1014 026a PRO/1000 MT Network Connection
1028 002e Optiplex GX260
1028 0134 PowerEdge 600SC
1028 0151 Optiplex
GX270
107b 8920 PRO/1000 MT Desktop Adapter
1af4 1100 QEMU Virtual Machine
8086 001e PRO/1000 MT Desktop Adapter
8086 002e PRO/1000 MT Desktop Adapter
8086 1376 PRO/1000 GT Desktop Adapter
8086 1476 PRO/1000 GT Desktop Adapter
100f 82545EM Gigabit Ethernet Controller (Copper)
1014 0269 iSeries 1000/100/10 Ethernet Adapter
1014 028e PRO/1000 MT Network Connection
15ad 0750 PRO/1000 MT Single Port Adapter
8086 1000 PRO/1000 MT Network Connection
8086 1001 PRO/1000 MT Server Adapter
1010 82546EB Gigabit Ethernet Controller (Copper)
0e11 00db NC7170 Gigabit Server Adapter
1014 027c PRO/1000 MT Dual Port Network Adapter
15ad 0760 PRO/1000 MT Dual Port Adapter
18fb 7872 RESlink-X
1fc1 0026 Niagara 2260 Bypass Card
4c53 1080 CT8 mainboard
4c53 10a0 CA3/CR3 mainboard
8086 1011 PRO/1000 MT Dual Port Server Adapter
8086 1012 PRO/1000 MT Dual Port Server Adapter
8086 101a PRO/1000 MT Dual Port Network Connection
8086 3424 SE7501HG2
Mainboard
1011 82545EM Gigabit Ethernet Controller (Fiber)
1014 0268 iSeries Gigabit Ethernet Adapter
8086 1002 PRO/1000 MF Server Adapter
8086 1003 PRO/1000 MF Server Adapter (LX)
1012 82546EB Gigabit Ethernet Controller (Fiber)
0e11 00dc NC6170 Gigabit Server Adapter
8086 1012 PRO/1000 MF Dual Port Server Adapter
1013 82541EI Gigabit Ethernet Controller
8086 0013 PRO/1000 MT Network Connection

8086 1013 PRO/1000 MT Network Connection
8086 1113 PRO/1000 MT Desktop Adapter
1014 82541ER Gigabit Ethernet Controller
8086 0014 PRO/1000 MT Desktop Connection
8086 1014 PRO/1000 MT Network Connection
1015 82540EM Gigabit Ethernet Controller (LOM)
8086 1015 PRO/1000 MT Mobile Connection
1016 82540EP Gigabit Ethernet Controller (Mobile)
1014 052c PRO/1000 MT Mobile Connection
1179 0001 PRO/1000 MT Mobile Connection
8086 1016 PRO/1000 MT Mobile Connection
1017 82540EP Gigabit Ethernet Controller
8086 1017 PR0/1000 MT Desktop Connection
1018
82541EI Gigabit Ethernet Controller
8086 1018 PRO/1000 MT Mobile Connection
1019 82547EI Gigabit Ethernet Controller
1458 1019 GA-8IPE1000 Pro2 motherboard (865PE)
1458 e000 Intel Gigabit Ethernet (Kenai II)
8086 1019 PRO/1000 CT Desktop Connection
8086 301f D865PERL mainboard
8086 3025 D875PBZ motherboard
8086 302c D865GBF Mainboard
8086 3427 S875WP1-E mainboard
101a 82547EI Gigabit Ethernet Controller (Mobile)
8086 101a PRO/1000 CT Mobile Connection
101d 82546EB Gigabit Ethernet Controller
8086 1000 PRO/1000 MT Quad Port Server Adapter
101e 82540EP Gigabit Ethernet Controller (Mobile)
1014 0549 Thinkpad
1179 0001 PRO/1000 MT Mobile Connection
8086 101e PRO/1000 MT Mobile Connection
101f Ethernet Controller V710 for 5GBASE-T
1026 82545GM Gigabit Ethernet Controller
1028 0168 Precision Workstation 670 Mainboard
1028 0169 Precision 470
8086 1000 PRO/1000 MT Server Connection
8086 1001 PRO/1000 MT Server Adapter
8086
1002 PRO/1000 MT Server Adapter
8086 1003 PRO/1000 GT Server Adapter
8086 1026 PRO/1000 MT Server Connection
1027 82545GM Gigabit Ethernet Controller
103c 3103 NC310F PCI-X Gigabit Server Adapter
8086 1001 PRO/1000 MF Server Adapter(LX)
8086 1002 PRO/1000 MF Server Adapter(LX)
8086 1003 PRO/1000 MF Server Adapter(LX)
8086 1027 PRO/1000 MF Server Adapter

1028 82545GM Gigabit Ethernet Controller
8086 1028 PRO/1000 MB Server Connection
1029 82559 Ethernet Controller
1030 82559 InBusiness 10/100
1031 82801CAM (ICH3) PRO/100 VE (LOM) Ethernet Controller
1014 0209 ThinkPad A/T/X Series
104d 80e7 Vaio PCG-GR214EP/GR214MP/GR215MP/GR314MP/GR315MP
104d 813c Vaio PCG-GRV616G
107b 5350 EtherExpress PRO/100 VE
1179 0001 EtherExpress PRO/100 VE
144d c000 EtherExpress PRO/100 VE
144d c001 EtherExpress PRO/100 VE
144d c003 EtherExpress PRO/100 VE
144d c006 vpr Matrix 170B4
1032 82801CAM (ICH3) PRO/100 VE Ethernet Controller
1033 82801CAM
(ICH3) PRO/100 VM (LOM) Ethernet Controller
1034 82801CAM (ICH3) PRO/100 VM Ethernet Controller
1035 82801CAM (ICH3)/82562EH (LOM) Ethernet Controller
1036 82801CAM (ICH3) 82562EH Ethernet Controller
1037 82801CAM (ICH3) Chipset Ethernet Controller
1038 82801CAM (ICH3) PRO/100 VM (KM) Ethernet Controller
0e11 0098 Evo N600c
1039 82801DB PRO/100 VE (LOM) Ethernet Controller
1014 0267 NetVista A30p
114a 0582 PC8 onboard ethernet ETH1
103a 82801DB PRO/100 VE (CNR) Ethernet Controller
103b 82801DB PRO/100 VM (LOM) Ethernet Controller
103c 82801DB PRO/100 VM (CNR) Ethernet Controller
103d 82801DB PRO/100 VE (MOB) Ethernet Controller
1014 0522 ThinkPad R40
1028 2002 Latitude D500
8086 103d 82562EZ 10/100 Ethernet Controller
103e 82801DB PRO/100 VM (MOB) Ethernet Controller
1040 536EP Data Fax Modem
16be 1040 V.9X DSP Data Fax Modem
1043 PRO/Wireless LAN 2100 3B Mini PCI Adapter
103c 08b0 tc1100 tablet
8086 2522 Samsung X10/P30 integrated
WLAN
8086 2527 MIM2000/Centrino
8086 2561 Dell Latitude D800
8086 2581 Toshiba Satellite M10
1048 82597EX 10GbE Ethernet Controller
8086 a01f PRO/10GbE LR Server Adapter
8086 a11f PRO/10GbE LR Server Adapter
1049 82566MM Gigabit Network Connection
103c 30c1 Compaq 6910p

17aa 20b9 ThinkPad T61/R61
104a 82566DM Gigabit Network Connection
104b 82566DC Gigabit Network Connection
104c 82562V 10/100 Network Connection
104d 82566MC Gigabit Network Connection
104e Ethernet Controller X710 for 10 Gigabit SFP+
104f Ethernet Controller X710 for 10 Gigabit backplane
1050 82562EZ 10/100 Ethernet Controller
1014 0287 ThinkCentre S50
1028 019d Dimension 3000
1462 728c 865PE Neo2 (MS-6728)
1462 758c MS-6758 (875P Neo)
8086 3020 D865PERL mainboard
8086 302f Desktop Board D865GBF
8086 3427 S875WP1-E mainboard
1051 82801EB/ER (ICH5/ICH5R) integrated LAN Controller
1052 PRO/100 VM Network Connection
1053 PRO/100 VM Network Connection
1054
PRO/100 VE Network Connection
1055 PRO/100 VM Network Connection
1056 PRO/100 VE Network Connection
1057 PRO/100 VE Network Connection
1059 82551QM Ethernet Controller
105b 82546GB Gigabit Ethernet Controller (Copper)
105e 82571EB/82571GB Gigabit Ethernet Controller D0/D1 (copper applications)
103c 7044 NC360T PCI Express Dual Port Gigabit Server Adapter
103c 704e Dual Port 1000Base-T (PCIe) [AD337A]
1775 1100 CR11/VR11 Single Board Computer
1775 6003 Telum GE-QT
18df 1214 2x 1GbE, PCIe x1, dual Intel 82571EB chips
8086 005e PRO/1000 PT Dual Port Server Connection
8086 105e PRO/1000 PT Dual Port Network Connection
8086 10d5 82571PT Gigabit PT Quad Port Server ExpressModule
8086 115e PRO/1000 PT Dual Port Server Adapter
8086 125e PRO/1000 PT Dual Port Server Adapter
8086 135e PRO/1000 PT Dual Port Server Adapter
105f 82571EB Gigabit Ethernet Controller
103c 704f Dual Port 1000Base-SX (PCIe) [AD338A]
8086 005a PRO/1000 PF Dual Port
Server Adapter
8086 115f PRO/1000 PF Dual Port Server Adapter
8086 125f PRO/1000 PF Dual Port Server Adapter
8086 135f PRO/1000 PF Dual Port Server Adapter
1060 82571EB Gigabit Ethernet Controller
8086 0060 PRO/1000 PB Dual Port Server Connection
8086 1060 PRO/1000 PB Dual Port Server Connection
1064 82562ET/EZ/GT/GZ - PRO/100 VE (LOM) Ethernet Controller

1043 80f8 P5GD1-VW Mainboard
1065 82562ET/EZ/GT/GZ - PRO/100 VE Ethernet Controller
1066 82562 EM/EX/GX - PRO/100 VM (LOM) Ethernet Controller
1067 82562 EM/EX/GX - PRO/100 VM Ethernet Controller
1068 82562ET/EZ/GT/GZ - PRO/100 VE (LOM) Ethernet Controller Mobile
103c 30d5 530 Laptop
1069 82562EM/EX/GX - PRO/100 VM (LOM) Ethernet Controller Mobile
106a 82562G - PRO/100 VE (LOM) Ethernet Controller
106b 82562G - PRO/100 VE Ethernet Controller Mobile
1075 82547GI Gigabit Ethernet Controller
1028 0165 PowerEdge 750
8086 0075 PRO/1000 CT Network Connection
8086 1075 PRO/1000 CT Network
Connection
1076 82541GI Gigabit Ethernet Controller
1028 0165 PRO/1000 MT Network Connection
1028 016d PRO/1000 MT Network Connection
1028 019a PRO/1000 MT Network Connection
1028 106d PRO/1000 MT Network Connection
8086 0076 PRO/1000 MT Network Connection
8086 1076 PRO/1000 MT Network Connection
8086 1176 PRO/1000 MT Desktop Adapter
8086 1276 PRO/1000 MT Network Adapter
1077 82541GI Gigabit Ethernet Controller
1179 0001 PRO/1000 MT Mobile Connection
8086 0077 PRO/1000 MT Mobile Connection
8086 1077 PRO/1000 MT Mobile Connection
1078 82541ER Gigabit Ethernet Controller
8086 1078 82541ER-based Network Connection
1079 82546GB Gigabit Ethernet Controller
103c 12a6 Dual Port 1000Base-T [A9900A]
103c 12cf Core Dual Port 1000Base-T [AB352A]
1775 10d0 V5D Single Board Computer Gigabit Ethernet
1775 ce90 CE9
1fc1 0027 Niagara 2261 Failover NIC
4c53 1090 Cx9 / Vx9 mainboard
4c53 10b0 CL9 mainboard
8086 0079 PRO/1000 MT Dual Port
Network Connection
8086 1079 PRO/1000 MT Dual Port Network Connection
8086 1179 PRO/1000 MT Dual Port Server Adapter
8086 117a PRO/1000 MT Dual Port Server Adapter
107a 82546GB Gigabit Ethernet Controller
103c 12a8 Dual Port 1000base-SX [A9899A]
8086 107a PRO/1000 MF Dual Port Server Adapter
8086 127a PRO/1000 MF Dual Port Server Adapter
107b 82546GB Gigabit Ethernet Controller
8086 007b PRO/1000 MB Dual Port Server Connection

8086 107b PRO/1000 MB Dual Port Server Connection
107c 82541PI Gigabit Ethernet Controller
8086 1376 PRO/1000 GT Desktop Adapter
8086 1476 PRO/1000 GT Desktop Adapter
107d 82572EI Gigabit Ethernet Controller (Copper)
8086 1082 PRO/1000 PT Server Adapter
8086 1084 PRO/1000 PT Server Adapter
8086 1092 PRO/1000 PT Server Adapter
107e 82572EI Gigabit Ethernet Controller (Fiber)
8086 1084 PRO/1000 PF Server Adapter
8086 1085 PRO/1000 PF Server Adapter
8086 1094 PRO/1000 PF Server Adapter
107f 82572EI Gigabit
Ethernet Controller
1080 FA82537EP 56K V.92 Data/Fax Modem PCI
1081 631xESB/632xESB LAN Controller Copper
1082 631xESB/632xESB LAN Controller fiber
1083 631xESB/632xESB LAN Controller SERDES
1084 631xESB/632xESB IDE Redirection
1085 631xESB/632xESB Serial Port Redirection
1086 631xESB/632xESB IPMI/KCS0
1087 631xESB/632xESB UHCI Redirection
1089 631xESB/632xESB BT
108a 82546GB Gigabit Ethernet Controller
8086 108a PRO/1000 P Dual Port Server Adapter
8086 118a PRO/1000 P Dual Port Server Adapter
108b 82573V Gigabit Ethernet Controller (Copper)
1462 176c on board on MSI 945P - NEO (MS-7176)
108c 82573E Gigabit Ethernet Controller (Copper)
108e 82573E KCS (Active Management)
108f Active Management Technology - SOL
1091 PRO/100 VM Network Connection
1092 PRO/100 VE Network Connection
1071 8209 Medion MIM 2240 Notebook PC [MD98100]
1093 PRO/100 VM Network Connection
1094 PRO/100 VE Network Connection
1095 PRO/100 VE Network Connection
1096
80003ES2LAN Gigabit Ethernet Controller (Copper)
15d9 1096 Motherboard
15d9 8680 X7DVL-E-O motherboard
8086 3476 S5000PSLSATA Server Board
1097 631xESB/632xESB DPT LAN Controller (Fiber)
1098 80003ES2LAN Gigabit Ethernet Controller (Serdes)
1099 82546GB Gigabit Ethernet Controller (Copper)
8086 1099 PRO/1000 GT Quad Port Server Adapter
109a 82573L Gigabit Ethernet Controller
1179 ff10 PRO/1000 PL

17aa 2001 ThinkPad T60
17aa 207e ThinkPad X60/X60s
8086 109a PRO/1000 PL Network Connection
8086 309c Desktop Board D945GTP
8086 30a5 Desktop Board D975XBX
109b 82546GB PRO/1000 GF Quad Port Server Adapter
109e 82597EX 10GbE Ethernet Controller
8086 a01f PRO/10GbE CX4 Server Adapter
8086 a11f PRO/10GbE CX4 Server Adapter
10a0 82571EB PRO/1000 AT Quad Port Bypass Adapter
10a1 82571EB PRO/1000 AF Quad Port Bypass Adapter
10a4 82571EB Gigabit Ethernet Controller
8086 10a4 PRO/1000 PT Quad Port Server Adapter
8086 11a4 PRO/1000 PT Quad
Port Server Adapter
10a5 82571EB Gigabit Ethernet Controller (Fiber)
8086 10a5 PRO/1000 PF Quad Port Server Adapter
8086 10a6 PRO/1000 PF Quad Port Server Adapter
10a6 82599EB 10-Gigabit Dummy Function
10a7 82575EB Gigabit Network Connection
8086 10a8 82575EB Gigabit Riser Card
10a9 82575EB Gigabit Backplane Connection
10b0 82573L PRO/1000 PL Network Connection
10b2 82573V PRO/1000 PM Network Connection
10b3 82573E PRO/1000 PM Network Connection
10b4 82573L PRO/1000 PL Network Connection
10b5 82546GB Gigabit Ethernet Controller (Copper)
103c 3109 NC340T PCI-X Quad-port Gigabit Server Adapter
8086 1099 PRO/1000 GT Quad Port Server Adapter
8086 1199 PRO/1000 GT Quad Port Server Adapter
10b6 82598 10GbE PCI-Express Ethernet Controller
10b9 82572EI Gigabit Ethernet Controller (Copper)
103c 704a 110T PCIe Gigabit Server Adapter
8086 1083 PRO/1000 PT Desktop Adapter
8086 1093 PRO/1000 PT Desktop Adapter
10ba 80003ES2LAN Gigabit Ethernet Controller
(Copper)
10bb 80003ES2LAN Gigabit Ethernet Controller (Serdes)
10bc 82571EB/82571GB Gigabit Ethernet Controller (Copper)
1014 0368 4-Port 10/100/1000 Base-TX PCI Express Adapter for POWER
103c 704b NC364T PCI Express Quad Port Gigabit Server Adapter
375-3481-01 REV:50
108e 11bc Quad Port Adapter
8086 10bc PRO/1000 PT Quad Port LP Server Adapter
8086 11bc PRO/1000 PT Quad Port LP Server Adapter (Kirkwood Low Profile)
10bd 82566DM-2 Gigabit Network Connection
1028 0211 OptiPlex 755
10bf 82567LF Gigabit Network Connection

10c0 82562V-2 10/100 Network Connection
1028 020d Inspiron 530
10c2 82562G-2 10/100 Network Connection
10c3 82562GT-2 10/100 Network Connection
10c4 82562GT 10/100 Network Connection
10c5 82562G 10/100 Network Connection
10c6 82598EB 10-Gigabit AF Dual Port Network Connection
8086 a05f 10-Gigabit XF SR Dual Port Server Adapter
8086 a15f 10-Gigabit XF SR Dual Port Server Adapter
10c7 82598EB 10-Gigabit AF Network
Connection
1014 037f 10-Gigabit XF SR Server Adapter
1014 0380 10-Gigabit XF LR Server Adapter
8086 a05f 10-Gigabit XF SR Server Adapter
8086 a15f 10-Gigabit XF SR Server Adapter
8086 a16f 10-Gigabit XF SR Server Adapter
10c8 82598EB 10-Gigabit AT Network Connection
8086 a10c 10-Gigabit AT Server Adapter
8086 a11c 10-Gigabit AT Server Adapter
8086 a12c 10-Gigabit AT Server Adapter
10c9 82576 Gigabit Network Connection
103c 31ef NC362i Integrated Dual port Gigabit Server Adapter
103c 323f NC362i Integrated Dual port Gigabit Server Adapter
10a9 8028 UV-BaseIO dual-port GbE
13a3 0037 DS4100 Secure Multi-Gigabit Server Adapter with Compression
15d9 a811 H8DGU
8086 a01c Gigabit ET Dual Port Server Adapter
8086 a03c Gigabit ET Dual Port Server Adapter
8086 a04c Gigabit ET Dual Port Server Adapter
10ca 82576 Virtual Function
10cb 82567V Gigabit Network Connection
10cc 82567LM-2 Gigabit Network Connection
10cd 82567LF-2 Gigabit Network
Connection
10ce 82567V-2 Gigabit Network Connection
10d3 82574L Gigabit Network Connection
103c 1785 NC112i 1-port Ethernet Server Adapter
103c 3250 NC112T PCI Express single Port Gigabit Server Adapter
1043 8369 Motherboard
1093 76e9 PCIe-8233 Ethernet Adapter
10a9 8029 Prism XL Single Port Gigabit Ethernet
15d9 0605 X8SIL
15d9 060a X7SPA-H/X7SPA-HF Motherboard
15d9 060d C7SIM-Q Motherboard
8086 0001 Gigabit CT2 Desktop Adapter
8086 3578 Server Board S1200BTLR
8086 357a Server Board S1200BTS
8086 a01f Gigabit CT Desktop Adapter

e4bf 50c1 PC1-GROOVE
e4bf 50c2 PC2-LIMBO
10d4 Matrox Concord GE (customized Intel 82574)
10d5 82571PT Gigabit PT Quad Port Server ExpressModule
10d6 82575GB Gigabit Network Connection
8086 10d6 Gigabit VT Quad Port Server Adapter
8086 145a Gigabit VT Quad Port Server Adapter
8086 147a Gigabit VT Quad Port Server Adapter
10d8 82599EB 10 Gigabit Unprogrammed
10d9 82571EB Dual Port Gigabit Mezzanine
Adapter
103c 1716 NC360m Dual Port 1GbE BL-c Adapter
10da 82571EB Quad Port Gigabit Mezzanine Adapter
103c 1717 NC364m Quad Port 1GbE BL-c Adapter
10db 82598EB 10-Gigabit Dual Port Network Connection
10dd 82598EB 10-Gigabit AT CX4 Network Connection
10de 82567LM-3 Gigabit Network Connection
10df 82567LF-3 Gigabit Network Connection
10e1 82598EB 10-Gigabit AF Dual Port Network Connection
8086 a15f 10-Gigabit SR Dual Port Express Module
10e2 82575GB Gigabit Network Connection
8086 10e2 Gigabit VT Quad Port Server Adapter
10e5 82567LM-4 Gigabit Network Connection
10e6 82576 Gigabit Network Connection
8086 a01f Gigabit EF Dual Port Server Adapter
8086 a02f Gigabit EF Dual Port Server Adapter
10e7 82576 Gigabit Network Connection
103c 31ff NC362i Integrated Dual Port BL-c Gigabit Server Adapter
10e8 82576 Gigabit Network Connection
8086 a02b Gigabit ET Quad Port Server Adapter
8086 a02c Gigabit ET Quad Port Server Adapter
10ea 82577LM Gigabit
Network Connection
1028 040a Latitude E6410
1028 040b Latitude E6510
e4bf 50c1 PC1-GROOVE
10eb 82577LC Gigabit Network Connection
10ec 82598EB 10-Gigabit AT CX4 Network Connection
8086 a01f 10-Gigabit CX4 Dual Port Server Adapter
8086 a11f 10-Gigabit CX4 Dual Port Server Adapter
10ed 82599 Ethernet Controller Virtual Function
10ef 82578DM Gigabit Network Connection
1028 02da OptiPlex 980
15d9 060d C7SIM-Q Motherboard
10f0 82578DC Gigabit Network Connection
10f1 82598EB 10-Gigabit AF Dual Port Network Connection
8086 a20f 10-Gigabit AF DA Dual Port Server Adapter
8086 a21f 10-Gigabit AF DA Dual Port Server Adapter

10f4 82598EB 10-Gigabit AF Network Connection
8086 106f 10-Gigabit XF LR Server Adapter
8086 a06f 10-Gigabit XF LR Server Adapter
10f5 82567LM Gigabit Network Connection
17aa 20ee ThinkPad T400
10f6 82574L Gigabit Network Connection
10f7 10 Gigabit BR KX4 Dual Port Network Connection
108e 7b12 Sun Dual 10GbE PCIe
2.0 FEM
8086 000d Ethernet Mezzanine Adapter X520-KX4-2
10f8 82599 10 Gigabit Dual Port Backplane Connection
1028 1f63 10GbE 2P X520k bNDC
103c 17d2 Ethernet 10Gb 2-port 560M Adapter
103c 18d0 Ethernet 10Gb 2-port 560FLB Adapter
1059 0111 T4007 10GbE interface
1059 0130 T4009 10GbE interface
8086 000c Ethernet X520 10GbE Dual Port KX4-KR Mezz
10f9 82599 10 Gigabit Dual Port Network Connection
10fb 82599ES 10-Gigabit SFI/SFP+ Network Connection
1028 1f72 Ethernet 10G 4P X520/I350 rNDC
103c 17d0 Ethernet 10Gb 2-port 560FLR-SFP+ Adapter
103c 17d2 Ethernet 10Gb 2-port 560M Adapter
103c 17d3 Ethernet 10Gb 2-port 560SFP+ Adapter
103c 211b Ethernet 10Gb 1-port P560FLR-SFP+ Adapter
103c 2147 Ethernet 10Gb 1-port 561i Adapter
103c 2159 Ethernet 10Gb 2-port 562i Adapter
108e 7b11 Ethernet Server Adapter X520-2
1170 004c 82599 DP 10G Mezzanine Adapter
15d9 0611 AOC-STGN-I2S [REV 1.01]
1734 11a9 10 Gigabit Dual Port Network Connection
17aa
1071 ThinkServer X520-2 AnyFabric
17aa 4007 82599ES 10-Gigabit SFI/SFP+ Network Connection
17aa 402b 82599ES 10Gb 2-port Server Adapter X520-DA2
17aa 402f FPGA Card XC7VX690T-3FFG1157E
18d4 0c09 82599ES 10Gb 2-port SFP+ OCP Mezz Card MOP81-I-10GS2
193d 1004 560F-B
1bd4 001b 10G SFP+ DP ER102Fi4 Rack Adapter
1bd4 002f 10G SFP+ DP EP102Fi4A Adapter
1bd4 0032 10G SFP+ DP EP102Fi4 Adapter
8086 0002 Ethernet Server Adapter X520-DA2
8086 0003 Ethernet Server Adapter X520-2
8086 0006 Ethernet Server Adapter X520-1
8086 0008 Ethernet OCP Server Adapter X520-2
8086 000a Ethernet Server Adapter X520-1
8086 000c Ethernet Server Adapter X520-2
8086 10a6 82599ES 10Gb 2 port Server Adapter X520-DA2
8086 7a11 Ethernet Server Adapter X520-2

8086 7a12 Ethernet Server Adapter X520-2
10fc 82599 10 Gigabit Dual Port Network Connection
10fe 82552 10/100 Network Connection
1107 PRO/1000 MF Server Adapter (LX)
1130 82815 815 Chipset Host Bridge
and Memory Controller Hub
1025 1016 Travelmate 612 TX
1043 8027 TUSL2-C Mainboard
104d 80df Vaio PCG-FX403
8086 4532 Desktop Board D815EEA2/D815EFV
8086 4557 D815EGEW Mainboard
1131 82815 815 Chipset AGP Bridge
1132 82815 Chipset Graphics Controller (CGC)
1025 1016 Travelmate 612 TX
103c 2001 e-pc 40
104d 80df Vaio PCG-FX403
8086 4532 Desktop Board D815EEA2/D815EFV
8086 4541 D815EEA Motherboard
8086 4557 D815EGEW Mainboard
1161 82806AA PCI64 Hub Advanced Programmable Interrupt Controller
8086 1161 82806AA PCI64 Hub APIC
1162 Xscale 80200 Big Endian Companion Chip
1190 Merrifield SD/SDIO/eMMC Controller
1191 Merrifield Serial IO HSUART Controller
1192 Merrifield Serial IO HSUART DMA Controller
1194 Merrifield Serial IO SPI Controller
1195 Merrifield Serial IO I2C Controller
1196 Merrifield Serial IO I2C Controller
1199 Merrifield GPIO Controller
119e Merrifield USB Device Controller (OTG)
11a0 Merrifield SCU IPC
11a1 Merrifield
Power Management Unit
11a2 Merrifield Serial IO DMA Controller
11a5 Merrifield Serial IO PWM Controller
11c3 Quark SoC X1000 PCIe Root Port 0
11c4 Quark SoC X1000 PCIe Root Port 1
1200 IXP1200 Network Processor
172a 0000 AEP SSL Accelerator
1209 8255xER/82551IT Fast Ethernet Controller
140b 0610 PMC610 quad Ethernet board
1af4 1100 QEMU Virtual Machine
4c53 1050 CT7 mainboard
4c53 1051 CE7 mainboard
4c53 1070 PC6 mainboard
1221 82092AA PCI to PCMCIA Bridge
1222 82092AA IDE Controller
1223 SAA7116

1225 82452KX/GX [Orion]
1226 82596 PRO/10 PCI
1227 82865 EtherExpress PRO/100A
1228 82556 EtherExpress PRO/100 Smart
1229 82557/8/9/0/1 Ethernet Pro 100
0e11 3001 82559 Fast Ethernet LOM with Alert on LAN*
0e11 3002 82559 Fast Ethernet LOM with Alert on LAN*
0e11 3003 82559 Fast Ethernet LOM with Alert on LAN*
0e11 3004 82559 Fast Ethernet LOM with Alert on LAN*
0e11 3005 82559 Fast Ethernet LOM with Alert on LAN*
0e11 3006 82559
Fast Ethernet LOM with Alert on LAN*
0e11 3007 82559 Fast Ethernet LOM with Alert on LAN*
0e11 b01e NC3120 Fast Ethernet NIC
0e11 b01f NC3122 Fast Ethernet NIC (dual port)
0e11 b02f NC1120 Ethernet NIC
0e11 b04a Netelligent 10/100TX NIC with Wake on LAN
0e11 b0c6 NC3161 Fast Ethernet NIC (embedded, WOL)
0e11 b0c7 NC3160 Fast Ethernet NIC (embedded)
0e11 b0d7 NC3121 Fast Ethernet NIC (WOL)
0e11 b0dd NC3131 Fast Ethernet NIC (dual port)
0e11 b0de NC3132 Fast Ethernet Module (dual port)
0e11 b0e1 NC3133 Fast Ethernet Module (100-FX)
0e11 b134 NC3163 Fast Ethernet NIC (embedded, WOL)
0e11 b13c NC3162 Fast Ethernet NIC (embedded)
0e11 b144 NC3123 Fast Ethernet NIC (WOL)
0e11 b163 NC3134 Fast Ethernet NIC (dual port)
0e11 b164 NC3135 Fast Ethernet Upgrade Module (dual port)
0e11 b1a4 NC7131 Gigabit Server Adapter
1014 005c 82558B Ethernet Pro 10/100
1014 01bc 82559 Fast Ethernet LAN On Motherboard
1014 01f1 10/100 Ethernet Server
Adapter
1014 01f2 10/100 Ethernet Server Adapter
1014 0207 Ethernet Pro/100 S
1014 0232 10/100 Dual Port Server Adapter
1014 023a ThinkPad R30
1014 105c Netfinity 10/100
1014 2205 ThinkPad A22p
1014 305c 10/100 EtherJet Management Adapter
1014 405c 10/100 EtherJet Adapter with Alert on LAN
1014 505c 10/100 EtherJet Secure Management Adapter
1014 605c 10/100 EtherJet Secure Management Adapter
1014 705c 10/100 Netfinity 10/100 Ethernet Security Adapter
1014 805c 10/100 Netfinity 10/100 Ethernet Security Adapter
1028 009b 10/100 Ethernet Server Adapter
1028 00ce 10/100 Ethernet Server Adapter
1033 8000 PC-9821X-B06

1033 8016 PK-UG-X006
1033 801f PK-UG-X006
1033 8026 PK-UG-X006
1033 8063 82559-based Fast Ethernet Adapter
1033 8064 82559-based Fast Ethernet Adapter
103c 10c0 NetServer 10/100TX
103c 10c3 NetServer 10/100TX
103c 10ca NetServer 10/100TX
103c 10cb NetServer 10/100TX
103c 10e3 NetServer 10/100TX
103c
10e4 NetServer 10/100TX
103c 1200 NetServer 10/100TX
108e 10cf EtherExpress PRO/100(B)
10c3 1100 SmartEther100 SC1100
10cf 1115 8255x-based Ethernet Adapter (10/100)
10cf 1143 8255x-based Ethernet Adapter (10/100)
110a 008b 82551QM Fast Ethernet Multifuction PCI/CardBus Controller
114a 0582 PC8 onboard ethernet ETH2
1179 0001 8255x-based Ethernet Adapter (10/100)
1179 0002 PCI FastEther LAN on Docker
1179 0003 8255x-based Fast Ethernet
1259 2560 AT-2560 100
1259 2561 AT-2560 100 FX Ethernet Adapter
1266 0001 NE10/100 Adapter
13e9 1000 6221L-4U
144d 2501 SEM-2000 MiniPCI LAN Adapter
144d 2502 SEM-2100IL MiniPCI LAN Adapter
1668 1100 EtherExpress PRO/100B (TX) (MiniPCI Ethernet+Modem)
1775 1100 CR11/VR11 Single Board Computer
1775 ce90 CE9
1af4 1100 QEMU Virtual Machine
4c53 1080 CT8 mainboard
4c53 10e0 PSL09 PrPMC
8086 0001 EtherExpress PRO/100B (TX)
8086 0002 EtherExpress PRO/100B (T4)
8086 0003 EtherExpress PRO/10+
8086
0004 EtherExpress PRO/100 WfM
8086 0005 82557 10/100
8086 0006 82557 10/100 with Wake on LAN
8086 0007 82558 10/100 Adapter
8086 0008 82558 10/100 with Wake on LAN
8086 0009 82558B PRO/100+ PCI (TP)
8086 000a EtherExpress PRO/100+ Management Adapter
8086 000b EtherExpress PRO/100+
8086 000c EtherExpress PRO/100+ Management Adapter
8086 000d EtherExpress PRO/100+ Alert On LAN II* Adapter

8086 000e EtherExpress PRO/100+ Management Adapter with Alert On LAN*
8086 000f EtherExpress PRO/100 Desktop Adapter
8086 0010 EtherExpress PRO/100 S Management Adapter
8086 0011 EtherExpress PRO/100 S Management Adapter
8086 0012 EtherExpress PRO/100 S Advanced Management Adapter (D)
8086 0013 EtherExpress PRO/100 S Advanced Management Adapter (E)
8086 0030 EtherExpress PRO/100 Management Adapter with Alert On LAN* GC
8086 0031 EtherExpress PRO/100 Desktop Adapter
8086 0040 EtherExpress PRO/100 S Desktop Adapter
8086 0041 EtherExpress
PRO/100 S Desktop Adapter
8086 0042 EtherExpress PRO/100 Desktop Adapter
8086 0050 EtherExpress PRO/100 S Desktop Adapter
8086 1009 EtherExpress PRO/100+ Server Adapter
8086 100c EtherExpress PRO/100+ Server Adapter (PILA8470B)
8086 1012 EtherExpress PRO/100 S Server Adapter (D)
8086 1013 EtherExpress PRO/100 S Server Adapter (E)
8086 1015 EtherExpress PRO/100 S Dual Port Server Adapter
8086 1017 EtherExpress PRO/100+ Dual Port Server Adapter
8086 1030 EtherExpress PRO/100+ Management Adapter with Alert On LAN* G Server
8086 1040 EtherExpress PRO/100 S Server Adapter
8086 1041 EtherExpress PRO/100 S Server Adapter
8086 1042 EtherExpress PRO/100 Server Adapter
8086 1050 EtherExpress PRO/100 S Server Adapter
8086 1051 EtherExpress PRO/100 Server Adapter
8086 1052 EtherExpress PRO/100 Server Adapter
8086 10f0 EtherExpress PRO/100+ Dual Port Adapter
8086 1229 82557/8/9 [Ethernet Pro 100]
8086 2009 EtherExpress PRO/100 S Mobile Adapter
8086
200d EtherExpress PRO/100 Cardbus
8086 200e EtherExpress PRO/100 LAN+V90 Cardbus Modem
8086 200f EtherExpress PRO/100 SR Mobile Adapter
8086 2010 EtherExpress PRO/100 S Mobile Combo Adapter
8086 2013 EtherExpress PRO/100 SR Mobile Combo Adapter
8086 2016 EtherExpress PRO/100 S Mobile Adapter
8086 2017 EtherExpress PRO/100 S Combo Mobile Adapter
8086 2018 EtherExpress PRO/100 SR Mobile Adapter
8086 2019 EtherExpress PRO/100 SR Combo Mobile Adapter
8086 2101 EtherExpress PRO/100 P Mobile Adapter
8086 2102 EtherExpress PRO/100 SP Mobile Adapter
8086 2103 EtherExpress PRO/100 SP Mobile Adapter
8086 2104 EtherExpress PRO/100 SP Mobile Adapter
8086 2105 EtherExpress PRO/100 SP Mobile Adapter
8086 2106 EtherExpress PRO/100 P Mobile Adapter
8086 2107 EtherExpress PRO/100 Network Connection
8086 2108 EtherExpress PRO/100 Network Connection
8086 2200 EtherExpress PRO/100 P Mobile Combo Adapter

8086 2201 EtherExpress PRO/100 P Mobile
Combo Adapter
8086 2202 EtherExpress PRO/100 SP Mobile Combo Adapter
8086 2203 EtherExpress PRO/100+ MiniPCI
8086 2204 EtherExpress PRO/100+ MiniPCI
8086 2205 EtherExpress PRO/100 SP Mobile Combo Adapter
8086 2206 EtherExpress PRO/100 SP Mobile Combo Adapter
8086 2207 EtherExpress PRO/100 SP Mobile Combo Adapter
8086 2208 EtherExpress PRO/100 P Mobile Combo Adapter
8086 2402 EtherExpress PRO/100+ MiniPCI
8086 2407 EtherExpress PRO/100+ MiniPCI
8086 2408 EtherExpress PRO/100+ MiniPCI
8086 2409 EtherExpress PRO/100+ MiniPCI
8086 240f EtherExpress PRO/100+ MiniPCI
8086 2410 EtherExpress PRO/100+ MiniPCI
8086 2411 EtherExpress PRO/100+ MiniPCI
8086 2412 EtherExpress PRO/100+ MiniPCI
8086 2413 EtherExpress PRO/100+ MiniPCI
8086 3000 82559 Fast Ethernet LAN on Motherboard
8086 3001 82559 Fast Ethernet LOM with Basic Alert on LAN*
8086 3002 82559 Fast Ethernet LOM with Alert on LAN II*
8086 3006 EtherExpress PRO/100 S Network Connection
8086
3007 EtherExpress PRO/100 S Network Connection
8086 3008 EtherExpress PRO/100 Network Connection
8086 3010 EtherExpress PRO/100 S Network Connection
8086 3011 EtherExpress PRO/100 S Network Connection
8086 3012 EtherExpress PRO/100 Network Connection
8086 301a S845WD1-E mainboard
8086 3411 SDS2 Mainboard
122d 430FX - 82437FX TSC [Triton I]
122e 82371FB PIIX ISA [Triton I]
1230 82371FB PIIX IDE [Triton I]
1231 DSVD Modem
1234 430MX - 82371MX Mobile PCI I/O IDE Xcelerator (MPIIX)
1235 430MX - 82437MX Mob. System Ctrlr (MTSC) & 82438MX Data Path (MTDP)
1237 440FX - 82441FX PMC [Natoma]
1af4 1100 Qemu virtual machine
1239 82371FB PIIX IDE Interface
123b 82380PB PCI to PCI Docking Bridge
123c 82380AB (MISA) Mobile PCI-to-ISA Bridge
123d 683053 Programmable Interrupt Device
123e 82466GX (IHPC) Integrated Hot-Plug Controller (hidden mode)
123f 82466GX Integrated Hot-Plug Controller (IHPC)
1240 82752 (752) AGP Graphics Accelerator
124b
82380FB (MPCI2) Mobile Docking Controller
1250 430HX - 82439HX TXC [Triton II]

1360 82806AA PCI64 Hub PCI Bridge
1361 82806AA PCI64 Hub Controller (HRes)
 8086 1361 82806AA PCI64 Hub Controller (HRes)
 8086 8000 82806AA PCI64 Hub Controller (HRes)
1460 82870P2 P64H2 Hub PCI Bridge
1461 82870P2 P64H2 I/OxAPIC
 15d9 3480 P4DP6
 4c53 1090 Cx9/Vx9 mainboard
1462 82870P2 P64H2 Hot Plug Controller
1501 82567V-3 Gigabit Network Connection
1502 82579LM Gigabit Network Connection (Lewisville)
 1028 04a3 Precision M4600
 17aa 21ce ThinkPad T520
 8086 3578 Server Board S1200BTLR
 8086 357a Server Board S1200BTS
1503 82579V Gigabit Network Connection
 1043 849c P8P67 Deluxe Motherboard
 10cf 161c LIFEBOOK E752
1507 Ethernet Express Module X520-P2
1508 82598EB Gigabit BX Network Connection
1509 82580 Gigabit Network Connection
150a 82576NS Gigabit Network Connection
150b 82598EB 10-Gigabit AT2 Server Adapter
 8086 a10c 82598EB 10-Gigabit AT2
Server Adapter
 8086 a11c 82598EB 10-Gigabit AT2 Server Adapter
 8086 a12c 82598EB 10-Gigabit AT2 Server Adapter
150c 82583V Gigabit Network Connection
150d 82576 Gigabit Backplane Connection
 8086 a10c Gigabit ET Quad Port Mezzanine Card
150e 82580 Gigabit Network Connection
 103c 1780 NC365T 4-port Ethernet Server Adapter
 8086 12a1 Ethernet Server Adapter I340-T4
 8086 12a2 Ethernet Server Adapter I340-T4
150f 82580 Gigabit Fiber Network Connection
1510 82580 Gigabit Backplane Connection
1511 82580 Gigabit SFP Connection
1513 CV82524 Thunderbolt Controller [Light Ridge 4C 2010]
1514 Ethernet X520 10GbE Dual Port KX4 Mezz
 8086 000b Ethernet X520 10GbE Dual Port KX4 Mezz
1515 X540 Ethernet Controller Virtual Function
1516 82580 Gigabit Network Connection
 8086 12b1 Ethernet Server Adapter I340-T2
 8086 12b2 Ethernet Server Adapter I340-T2
1517 82599ES 10 Gigabit Network Connection
 1137 006a UCS CNA M61KR-I Intel Converged Network Adapter
1518

82576NS SerDes Gigabit Network Connection
151a DSL2310 Thunderbolt Controller [Eagle Ridge 2C 2011]
151b CVL2510 Thunderbolt Controller [Light Peak 2C 2010]
151c 82599 10 Gigabit TN Network Connection
108e 7b13 Dual 10GBASE-T LP
1520 I350 Ethernet Controller Virtual Function
1521 I350 Gigabit Network Connection
1028 0602 Gigabit 2P I350-t LOM
1028 0693 Gigabit 2P I350-t LOM
1028 06e2 Gigabit 2P I350-t LOM
1028 0757 Gigabit I350-t LOM
1028 075a Gigabit I350-t LOM
1028 1f60 Gigabit 4P I350-t rNDC
1028 1f62 Gigabit 4P X540/I350 rNDC
1028 1fa8 Ethernet 10G 4P X550/I350 rNDC
1028 1fa9 Ethernet 10G 4P X550 rNDC
1028 1faa Gigabit 4P X550/I350 rNDC
1028 ff9a Gigabit 4P X710/I350 rNDC
103c 17d1 Ethernet 1Gb 4-port 366FLR Adapter
103c 2003 Ethernet 1Gb 2-port 367i Adapter
103c 2226 Ethernet 1Gb 1-port 364i Adapter
103c 337f Ethernet 1Gb 2-port 361i Adapter
103c 3380 Ethernet 1Gb 4-port 366i Adapter
103c 339e Ethernet 1Gb 2-port
361T Adapter
103c 8157 Ethernet 1Gb 4-port 366T Adapter
108e 7b16 Quad Port GbE PCIe 2.0 ExpressModule, UTP
108e 7b18 Quad Port GbE PCIe 2.0 Low Profile Adapter, UTP
1093 7648 PCIe-8237R Ethernet Adapter
1093 7649 PCIe-8236 Ethernet Adapter
1093 76b1 PCIe-8237R-S Ethernet Adapter
1093 775b PCIe-8237 Ethernet Adapter
10a9 802a UV2-BaseIO dual-port GbE
1137 023e 1GigE I350 LOM
15d9 0652 Dual Port i350 GbE MicroLP [AOC-CGP-i2]
17aa 1074 ThinkServer I350-T4 AnyFabric
17aa 4005 I350 Gigabit Network Connection
18d4 0c07 I350 1Gb 2-port RJ45 OCP Mezz Card MOP41-I-1GT2
193d 1005 360T-B
193d 1007 360T-L
1bd4 001d 1G base-T QP EP014Ti1 Adapter
1bd4 0035 1G base-T QP EP014Ti1 Adapter
8086 0001 Ethernet Server Adapter I350-T4
8086 0002 Ethernet Server Adapter I350-T2
8086 0003 Ethernet Network Adapter I350-T4 for OCP NIC 3.0
8086 00a1 Ethernet Server Adapter I350-T4
8086 00a2 Ethernet Server Adapter I350-T2
8086 00a3 Ethernet Network

Adapter I350-T4 for OCP NIC 3.0
8086 00aa Ethernet Network Adapter I350-T4 for OCP NIC 3.0
8086 5001 Ethernet Server Adapter I350-T4
8086 5002 Ethernet Server Adapter I350-T2
8086 5003 Ethernet 1G 4P I350-t OCP
1522 I350 Gigabit Fiber Network Connection
108e 7b17 Quad Port GbE PCIe 2.0 ExpressModule, MMF
108e 7b19 Dual Port GbE PCIe 2.0 Low Profile Adapter, MMF
8086 0002 Ethernet Server Adapter I350-T2
8086 0003 Ethernet Server Adapter I350-F4
8086 0004 Ethernet Server Adapter I350-F2
8086 0005 Ethernet Server Adapter I350-F1
8086 00a2 Ethernet Server Adapter I350-T2
8086 00a3 Ethernet Server Adapter I350-F4
8086 00a4 Ethernet Server Adapter I350-F2
1523 I350 Gigabit Backplane Connection
1028 0060 Gigabit 2P I350 LOM
1028 1f9b Gigabit 4P I350-t bNDC
103c 1784 Ethernet 1Gb 2-port 361FLB Adapter
103c 18d1 Ethernet 1Gb 2-port 361FLB Adapter
103c 1989 Ethernet 1Gb 2-port 363i Adapter
103c 339f Ethernet 1Gb 4-port 366M Adapter
8086
1f52 1GbE 4P I350 Mezz
1524 I350 Gigabit Connection
1525 82567V-4 Gigabit Network Connection
1526 82576 Gigabit Network Connection
8086 a05c Gigabit ET2 Quad Port Server Adapter
8086 a06c Gigabit ET2 Quad Port Server Adapter
1527 82580 Gigabit Fiber Network Connection
8086 0001 Ethernet Server Adapter I340-F4
8086 0002 Ethernet Server Adapter I340-F4
1528 Ethernet Controller 10-Gigabit X540-AT2
1028 1f61 Ethernet 10G 4P X540/I350 rNDC
103c 192d 561FLR-T 2-port 10Gb Ethernet Adapter
103c 2004 Ethernet 10Gb 2-port 561i Adapter
103c 211a Ethernet 10Gb 2-port 561T Adapter
108e 4853 Ethernet Controller 10-Gigabit X540-AT2
108e 7b14 Sun Dual Port 10 GbE PCIe 2.0 ExpressModule, Base-T
108e 7b15 Sun Dual Port 10 GbE PCIe 2.0 Low Profile Adapter, Base-T
1137 00bf Ethernet Converged Network Adapter X540-T2
1170 0052 Ethernet Controller 10-Gigabit X540-AT2
15d9 0734 AOC-STG-I2T
17aa 1073 ThinkServer X540-T2 AnyFabric
17aa 4006 Ethernet
Controller 10-Gigabit X540-AT2
1bd4 001a 10G base-T DP ER102Ti3 Rack Adapter
1bd4 0033 10G base-T DP EP102Ti3 Adapter

1bd4 0034 10G base-T DP EP102Ti3A Adapter
8086 0001 Ethernet Converged Network Adapter X540-T2
8086 0002 Ethernet Converged Network Adapter X540-T1
8086 001a Ethernet Converged Network Adapter X540-T2
8086 00a2 Ethernet Converged Network Adapter X540-T1
8086 1f61 Ethernet 10G 4P X540/I350 rNDC
8086 5003 Ethernet 10G 2P X540-t Adapter
8086 5004 Ethernet 10G 2P X540-t Adapter
1529 82599 10 Gigabit Dual Port Network Connection with FCoE
152a 82599 10 Gigabit Dual Port Backplane Connection with FCoE
152e 82599 Virtual Function
152f I350 Virtual Function
1530 X540 Virtual Function
1531 I210 Gigabit Unprogrammed
1533 I210 Gigabit Network Connection
103c 0003 Ethernet I210-T1 GbE NIC
1059 0180 RD10019 1GbE interface
1093 7706 Compact Vision System Ethernet Adapter
10a9 802c UV300 BaseIO single-port GbE
10a9 802d
UV3000 BaseIO GbE Network
17aa 1100 ThinkServer Ethernet Server Adapter
8086 0001 Ethernet Server Adapter I210-T1
8086 0002 Ethernet Server Adapter I210-T1
1536 I210 Gigabit Fiber Network Connection
1537 I210 Gigabit Backplane Connection
1059 0110 T4005 1GbE interface
1059 0111 T4007 1GbE interface
1059 0120 T4008 1GbE interface
1059 0130 T4009 1GbE interface
1059 0140 T2035 1GbE interface
1059 0150 RD-01068 1GbE interface
1059 0170 RD-01213 10GbE interface
1538 I210 Gigabit Network Connection
1539 I211 Gigabit Network Connection
153a Ethernet Connection I217-LM
103c 1909 ZBook 15
17aa 220e ThinkPad T440p
17aa 309f ThinkCentre M83
153b Ethernet Connection I217-V
1547 DSL3510 Thunderbolt Controller [Cactus Ridge 4C 2012]
1548 DSL3310 Thunderbolt Controller [Cactus Ridge 2C 2012]
1549 DSL2210 Thunderbolt Controller [Port Ridge 1C 2011]
154a Ethernet Server Adapter X520-4
8086 011a Ethernet Converged Network Adapter X520-4
8086
011b Ethernet Converged Network Adapter X520-4
8086 011c Ethernet Converged Network Adapter X520-4

154c Ethernet Virtual Function 700 Series
154d Ethernet 10G 2P X520 Adapter
8086 7b11 10GbE 2P X520 Adapter
1557 82599 10 Gigabit Network Connection
17aa 4008 82599EN 10 Gigabit Network Connection
1bd4 001c 10G SFP+ SP ER101Fi4 Rack Adapter
1bd4 0030 10G SFP+ SP EP101Fi4A Adapter
8086 0001 Ethernet OCP Server Adapter X520-1
1558 Ethernet Converged Network Adapter X520-Q1
8086 011a Ethernet Converged Network Adapter X520-Q1
8086 011b Ethernet Converged Network Adapter X520-Q1
1559 Ethernet Connection I218-V
155a Ethernet Connection I218-LM
17aa 2214 ThinkPad X240
155c Ethernet Server Bypass Adapter
8086 0001 Ethernet Server Bypass Adapter X540-T2
155d Ethernet Server Bypass Adapter
8086 0001 Ethernet Server Bypass Adapter X520-SR2
8086 0002 Ethernet Server Bypass Adapter X520-LR2
1560 Ethernet Controller X540
1563 Ethernet Controller
10G X550T
1028 1fa8 Ethernet 10G 4P X550/I350 rNDC
1028 1fa9 Ethernet 10G 4P X550 rNDC
1137 02b2 X550-TX 10 Gig LOM
1137 02b3 X550-TX 10 Gig LOM
1170 0001 Intel Ethernet Controller X550-T2 OCP card
14c0 1201 X550 10Gb 2P RJ45 OCP Mezz
1590 00d1 Ethernet 10Gb 2-port 562T Adapter
1590 00d2 Ethernet 10Gb 2-port 562FLR-T Adapter
16b8 7217 Twin10G Thunderbolt 3 Edition
18d4 0c08 X550 10Gb 2-port RJ45 OCP Mezz Card MOP81-I-10GT2
193d 1008 560T-B
193d 1009 560T-L
193d 1011 UN-NIC-ETH563T-sL-2P
8086 0001 Ethernet Converged Network Adapter X550-T2
8086 001a Ethernet Converged Network Adapter X550-T2
8086 001b Ethernet Server Adapter X550-T2 for OCP
8086 001d Ethernet 10G 2P X550-t Adapter
8086 0022 Ethernet Converged Network Adapter X550-T2
1564 X550 Virtual Function
1565 X550 Virtual Function
1566 DSL4410 Thunderbolt NHI [Redwood Ridge 2C 2013]
1567 DSL4410 Thunderbolt Bridge [Redwood Ridge 2C 2013]
1568 DSL4510 Thunderbolt
NHI [Redwood Ridge 4C 2013]
1569 DSL4510 Thunderbolt Bridge [Redwood Ridge 4C 2013]
156a DSL5320 Thunderbolt 2 NHI [Falcon Ridge 2C 2013]

156b DSL5320 Thunderbolt 2 Bridge [Falcon Ridge 2C 2013]
156c DSL5520 Thunderbolt 2 NHI [Falcon Ridge 4C 2013]
156d DSL5520 Thunderbolt 2 Bridge [Falcon Ridge 4C 2013]
156f Ethernet Connection I219-LM
1028 06dc Latitude E7470
103c 8079 EliteBook 840 G3
1570 Ethernet Connection I219-V
1571 Ethernet Virtual Function 700 Series
1572 Ethernet Controller X710 for 10GbE SFP+
1028 0000 Ethernet 10G X710 rNDC
1028 1f99 Ethernet 10G 4P X710/I350 rNDC
1028 1f9c Ethernet 10G 4P X710 SFP+ rNDC
103c 0000 Ethernet 10Gb 562SFP+ Adapter
103c 22fc Ethernet 10Gb 2-port 562FLR-SFP+ Adapter
103c 22fd Ethernet 10Gb 2-port 562SFP+ Adapter
1137 0000 Ethernet Converged NIC X710-DA
1137 013b Ethernet Converged NIC X710-DA4
1137 020a Ethernet Converged NIC X710-DA2
1590 0000 Ethernet Controller X710 for 10GbE SFP+
1590 0225
Ethernet 10GbE 4P 563SFP+ Adapter
1590 022f Ethernet 10Gb 2-port 564i Communication Board
17aa 0000 ThinkServer X710 AnyFabric for 10GbE SFP+
17aa 4001 ThinkServer X710-4 AnyFabric for 10GbE SFP+
17aa 4002 ThinkServer X710-2 AnyFabric for 10GbE SFP+
19e5 d11c Ethernet 2-port X710 10Gb SFP+ Adapter SP330
8086 0000 Ethernet Converged Network Adapter X710
8086 0001 Ethernet Converged Network Adapter X710-4
8086 0002 Ethernet Converged Network Adapter X710-4
8086 0004 Ethernet Converged Network Adapter X710-4
8086 0005 Ethernet 10G 4P X710 Adapter
8086 0006 Ethernet 10G 2P X710 Adapter
8086 0007 Ethernet Converged Network Adapter X710-2
8086 0008 Ethernet Converged Network Adapter X710-2
8086 0009 Ethernet Controller X710 for 10GbE SFP+
8086 000a Ethernet Controller X710 for 10GbE SFP+
8086 000b Ethernet Server Adapter X710-DA2 for OCP
8086 000d Ethernet Controller X710 for 10GbE SFP+
8086 000e Ethernet Server Adapter OCP X710-2
8086
000f Ethernet Server Adapter OCP X710-2
8086 0010 Ethernet Converged Network Adapter X710
8086 0011 Ethernet Network Adapter X710-2 for OCP NIC 3.0
8086 0012 Ethernet Network Adapter X710-4 for OCP NIC 3.0
8086 0013 Ethernet 10G 2P X710 OCP
8086 0014 Ethernet 10G 4P X710 OCP
8086 0015 Ethernet Server Adapter X710-DA2 for OCP
8086 00a1 Ethernet Network Adapter X710-2 for OCP NIC 3.0

8086 00a2 Ethernet Network Adapter X710-4 for OCP NIC 3.0
8086 4005 Ethernet Controller X710 for 10GbE SFP+
8086 4006 Ethernet Controller X710 for 10GbE SFP+
8086 4007 Ethernet Controller X710 for 10GbE SFP+
1574 Ethernet Controller XL710 Emulation
1575 DSL6340 Thunderbolt 3 NHI [Alpine Ridge 2C 2015]
1576 DSL6340 Thunderbolt 3 Bridge [Alpine Ridge 2C 2015]
1577 DSL6540 Thunderbolt 3 NHI [Alpine Ridge 4C 2015]
1578 DSL6540 Thunderbolt 3 Bridge [Alpine Ridge 4C 2015]
157b I210 Gigabit Network Connection
157c I210 Gigabit Backplane Connection
157d DSL5110
Thunderbolt 2 NHI (Low Power) [Win Ridge 2C 2014]
157e DSL5110 Thunderbolt 2 Bridge (Low Power) [Win Ridge 2C 2014]
1580 Ethernet Controller XL710 for 40GbE backplane
1581 Ethernet Controller X710 for 10GbE backplane
1028 0000 Ethernet 10G X710-k bNDC
1028 1f98 Ethernet 10G 4P X710-k bNDC
1028 1f9e Ethernet 10G 2P X710-k bNDC
1059 0150 RD-01068 10GbE-KR interface
1059 0170 RD-01213 10GbE interface
1590 0000 Ethernet 2-port 563i Adapter
1590 00f8 Ethernet 2-port 563i Adapter
8086 0000 Ethernet Converged Network Adapter XL710-Q2
1583 Ethernet Controller XL710 for 40GbE QSFP+
1028 0000 Ethernet 40G 2P XL710 QSFP+ rNDC
1028 1f9f Ethernet 40G 2P XL710 QSFP+ rNDC
108e 0000 10 Gb/40 Gb Ethernet Adapter
108e 7b1b 10 Gb/40 Gb Ethernet Adapter
108e 7b1d 10Gb/40Gb Ethernet Adapter
1137 0000 Ethernet Converged NIC XL710-QDA2
1137 013c Ethernet Converged NIC XL710-QDA2
8086 0000 Ethernet Converged Network Adapter XL710-Q2
8086 0001 Ethernet
Converged Network Adapter XL710-Q2
8086 0002 Ethernet Converged Network Adapter XL710-Q2
8086 0003 Ethernet I/O Module XL710-Q2
8086 0004 Ethernet Server Adapter XL710-Q2OCP
8086 0006 Ethernet Converged Network Adapter XL710-Q2
1584 Ethernet Controller XL710 for 40GbE QSFP+
8086 0000 Ethernet Converged Network Adapter XL710-Q1
8086 0001 Ethernet Converged Network Adapter XL710-Q1
8086 0002 Ethernet Converged Network Adapter XL710-Q1
8086 0003 Ethernet I/O Module XL710-Q1
8086 0004 Ethernet Server Adapter XL710-Q1OCP
1585 Ethernet Controller X710 for 10GbE QSFP+
1586 Ethernet Controller X710 for 10GBASE-T
108e 0000 Ethernet Controller X710 for 10GBASE-T

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 108e 4857  Ethernet Controller X710 for 10GBASE-T
1587  Ethernet Controller XL710 for 20GbE backplane
 103c 0000  Ethernet 10/20Gb 2-port 660FLB Adapter
 103c 22fe  Ethernet 10/20Gb 2-port 660FLB Adapter
1588  Ethernet Controller XL710 for 20GbE backplane
 103c 0000  Ethernet 10/20Gb 2-port 660M
Adapter
 103c 22ff  Ethernet 10/20Gb 2-port 660M Adapter
 1137 0000  Ethernet Network Adapter XXV710
 1137 02b4  Ethernet Network Adapter XXV710 OCP 2.0
1589  Ethernet Controller X710/X557-AT 10GBASE-T
 108e 0000  Quad Port 10GBase-T Adapter
 108e 7b1c  Quad Port 10GBase-T Adapter
 8086 0000  Ethernet Converged Network Adapter X710-T
 8086 0001  Ethernet Converged Network Adapter X710-T4
 8086 0002  Ethernet Converged Network Adapter X710-T4
 8086 0003  Ethernet Converged Network Adapter X710-T
 8086 00a0  Ethernet Converged Network Adapter X710-T4
 8086 1003  Ethernet Converged Network Adapter X710-T
158a  Ethernet Controller XXV710 for 25GbE backplane
 1590 0000  10/25Gb Ethernet Adapter
 1590 0286  Synergy 4610C 10/25Gb Ethernet Adapter
 8086 0000  Ethernet Controller XXV710 for 25GbE backplane
 8086 000a  Ethernet 25G 2P XXV710 Mezz
158b  Ethernet Controller XXV710 for 25GbE SFP28
 1137 0000  Ethernet Network Adapter XXV710
 1137 0225  Ethernet Network Adapter
XXV710
 1137 02b4  Ethernet Network Adapter XXV710 OCP 2.0
# UEFI PXE Disabled
 1374 0230  Single Port 25 Gigabit Ethernet PCI Express Server Adapter (PE325G1I71)
# With UEFI PXE Enabled
 1374 0231  Single Port 25 Gigabit Ethernet PCI Express Server Adapter (PE325G1I71EU)
# UEFI PXE Disabled
 1374 0234  Dual Port 25 Gigabit Ethernet PCI Express Server Adapter (PE325G2I71)
# With UEFI PXE Enabled
 1374 0235  Dual Port 25 Gigabit Ethernet PCI Express Server Adapter (PE325G2I71EU)
# PCIe x8 Bifurcated as x4x4, UEFI PXE Disabled, low profile
 1374 0238  Quad Port 25 Gigabit Ethernet PCI Express Server Adapter (PE325G4I71L)
# PCIe x8 Bifurcated as x4x4, UEFI PXE Enabled, low profile
 1374 0239  Quad Port 25 Gigabit Ethernet PCI Express Server Adapter (PE325G4I71LEU)
# PCIe x16 Bifurcated as x8x8, UEFI PXE Disabled, low profile
 1374 023a  Quad Port 25 Gigabit Ethernet PCI Express Server Adapter (PE31625G4I71L)
# PCIe x16 Bifurcated as x8x8, UEFI PXE Enabled, low profile
 1374 023b
 Quad Port 25 Gigabit Ethernet PCI Express Server Adapter (PE31625G4I71LEU)
 1590 0000  Ethernet Network Adapter XXV710-2
 1590 0253  Ethernet 10/25/Gb 2-port 661SFP28 Adapter
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8086 0000 Ethernet Network Adapter XXV710
8086 0001 Ethernet Network Adapter XXV710-2
8086 0002 Ethernet Network Adapter XXV710-2
8086 0003 Ethernet Network Adapter XXV710-1
8086 0004 Ethernet Network Adapter XXV710-1
8086 0005 Ethernet Network Adapter OCP XXV710-2
8086 0006 Ethernet Network Adapter OCP XXV710-2
8086 0007 Ethernet Network Adapter OCP XXV710-1
8086 0008 Ethernet Network Adapter OCP XXV710-1
8086 0009 Ethernet 25G 2P XXV710 Adapter
8086 000a Ethernet 25G 2P XXV710 OCP
8086 4001 Ethernet Network Adapter XXV710-2
1591 Ethernet Controller E810-C for backplane
1592 Ethernet Controller E810-C for QSFP
8086 0002 Ethernet Network Adapter E810-C-Q2
8086 0004 Ethernet Network Adapter E810-C-Q2
8086 0005 Ethernet Network Adapter E810-C-Q1 for OCP3.0
8086
0006 Ethernet Network Adapter E810-C-Q2 for OCP3.0
8086 0009 Ethernet Network Adapter E810-C-Q1
1593 Ethernet Controller E810-C for SFP
8086 0002 Ethernet Network Adapter E810-L-2
8086 0005 Ethernet Network Adapter E810-XXV-4
8086 0006 Ethernet Network Adapter E810-XXV-4
8086 0007 Ethernet Network Adapter E810-XXV-4
8086 0008 Ethernet Network Adapter E810-XXV-2
8086 0009 Ethernet Network Adapter E810-XXV-2 for OCP 2.0
15a0 Ethernet Connection (2) I218-LM
15a1 Ethernet Connection (2) I218-V
15a2 Ethernet Connection (3) I218-LM
15a3 Ethernet Connection (3) I218-V
15a4 Ethernet Switch FM10000 Host Interface
15a5 Ethernet Switch FM10000 Host Virtual Interface
15a8 Ethernet Connection X552 Virtual Function
15a9 X552 Virtual Function
15aa Ethernet Connection X552 10 GbE Backplane
1059 0120 T4008 10GbE interface
15ab Ethernet Connection X552 10 GbE Backplane
1059 0150 RD-01068 10GbE interface
1059 0170 RD-01213 10GbE interface
15ac Ethernet
Connection X552 10 GbE SFP+
1059 0160 RD-01167 10GbE interface
15ad Ethernet Connection X552/X557-AT 10GBASE-T
15ae Ethernet Connection X552 1000BASE-T
15b0 Ethernet Connection X552 Backplane
15b4 X553 Virtual Function
15b5 DSL6340 USB 3.1 Controller [Alpine Ridge]

15b6 DSL6540 USB 3.1 Controller [Alpine Ridge]
15b7 Ethernet Connection (2) I219-LM
15b8 Ethernet Connection (2) I219-V
15b9 Ethernet Connection (3) I219-LM
15bb Ethernet Connection (7) I219-LM
15bc Ethernet Connection (7) I219-V
15bd Ethernet Connection (6) I219-LM
15be Ethernet Connection (6) I219-V
15bf JHL6240 Thunderbolt 3 NHI (Low Power) [Alpine Ridge LP 2016]
15c0 JHL6240 Thunderbolt 3 Bridge (Low Power) [Alpine Ridge LP 2016]
15c1 JHL6240 Thunderbolt 3 USB 3.1 Controller (Low Power) [Alpine Ridge LP 2016]
15c2 Ethernet Connection X553 Backplane
15c3 Ethernet Connection X553 Backplane
15c4 Ethernet Connection X553 10 GbE SFP+
15c5 X553 Virtual Function
15c6 Ethernet Connection
X553 1GbE
15c7 Ethernet Connection X553 1GbE
15c8 Ethernet Connection X553/X557-AT 10GBASE-T
15ce Ethernet Connection X553 10 GbE SFP+
15d0 Ethernet SDI Adapter
 8086 0001 Ethernet SDI Adapter FM10420-100GbE-QDA2
 8086 0002 Ethernet SDI Adapter FM10840-MTP2
15d1 Ethernet Controller 10G X550T
 8086 0002 Ethernet Converged Network Adapter X550-T1
 8086 001b Ethernet Server Adapter X550-T1 for OCP
 8086 0021 Ethernet Converged Network Adapter X550-T1
 8086 00a2 Ethernet Converged Network Adapter X550-T1
15d2 JHL6540 Thunderbolt 3 NHI (C step) [Alpine Ridge 4C 2016]
15d3 JHL6540 Thunderbolt 3 Bridge (C step) [Alpine Ridge 4C 2016]
15d4 JHL6540 Thunderbolt 3 USB Controller (C step) [Alpine Ridge 4C 2016]
15d5 Ethernet SDI Adapter FM10420-25GbE-DA2
 8086 0001 Intel(R) Ethernet SDI Adapter FM10420-25GbE-DA2
15d6 Ethernet Connection (5) I219-V
15d7 Ethernet Connection (4) I219-LM
15d8 Ethernet Connection (4) I219-V
 17aa 2247 ThinkPad T570
 17aa
224f ThinkPad X1 Carbon 5th Gen
 17aa 225d ThinkPad T480
15d9 JHL6340 Thunderbolt 3 NHI (C step) [Alpine Ridge 2C 2016]
15da JHL6340 Thunderbolt 3 Bridge (C step) [Alpine Ridge 2C 2016]
15db JHL6340 Thunderbolt 3 USB 3.1 Controller (C step) [Alpine Ridge 2C 2016]
15df Ethernet Connection (8) I219-LM
15e0 Ethernet Connection (8) I219-V
15e1 Ethernet Connection (9) I219-LM
15e2 Ethernet Connection (9) I219-V
15e3 Ethernet Connection (5) I219-LM

15e4 Ethernet Connection X553 1GbE
15e5 Ethernet Connection X553 1GbE
15e7 JHL7540 Thunderbolt 3 Bridge [Titan Ridge 2C 2018]
15e8 JHL7540 Thunderbolt 3 NHI [Titan Ridge 2C 2018]
15e9 JHL7540 Thunderbolt 3 USB Controller [Titan Ridge 2C 2018]
15ea JHL7540 Thunderbolt 3 Bridge [Titan Ridge 4C 2018]
15eb JHL7540 Thunderbolt 3 NHI [Titan Ridge 4C 2018]
15ec JHL7540 Thunderbolt 3 USB Controller [Titan Ridge 4C 2018]
15ef JHL7540 Thunderbolt 3 Bridge [Titan Ridge DD 2018]
15f0 JHL7540 Thunderbolt 3 USB Controller
[Titan Ridge DD 2018]
15f4 Ethernet Connection (15) I219-LM
15f5 Ethernet Connection (15) I219-V
15f6 I210 Gigabit Ethernet Connection
15f9 Ethernet Connection (14) I219-LM
15fa Ethernet Connection (14) I219-V
15fb Ethernet Connection (13) I219-LM
15fc Ethernet Connection (13) I219-V
15ff Ethernet Controller X710 for 10GBASE-T
1137 0000 X710TLG GbE RJ45 PCIe NIC
1137 02c1 X710T2LG 2x10 GbE RJ45 PCIe NIC
1137 02c2 X710T4LG 4x10 GbE RJ45 PCIe NIC
8086 0000 Ethernet Network Adapter X710-TL
8086 0001 Ethernet Network Adapter X710-T4L
8086 0002 Ethernet Network Adapter X710-T4L
8086 0003 Ethernet Network Adapter X710-T2L
8086 0004 Ethernet Network Adapter X710-T2L
8086 0005 Ethernet 10G 2P X710-T2L-t Adapter
8086 0006 Ethernet 10G 4P X710-T4L-t Adapter
8086 0007 Ethernet 10G 2P X710-T2L-t OCP
8086 0008 Ethernet 10G 4P X710-T4L-t OCP
8086 0009 Ethernet Network Adapter X710-T4L for OCP 3.0
8086 000a Ethernet Network Adapter X710-T4L for
OCP 3.0
8086 000b Ethernet Network Adapter X710-T2L for OCP 3.0
8086 000c Ethernet Network Adapter X710-T2L for OCP 3.0
8086 000f Ethernet Network Adapter X710-T2L for OCP 3.0
1600 Broadwell-U Host Bridge -OPI
1601 Broadwell-U PCI Express x16 Controller
1602 Broadwell-U Integrated Graphics
1603 Broadwell-U Processor Thermal Subsystem
1604 Broadwell-U Host Bridge -OPI
1605 Broadwell-U PCI Express x8 Controller
1606 HD Graphics
1607 Broadwell-U CHAPS Device
1608 Broadwell-U Host Bridge -OPI
1609 Broadwell-U x4 PCIe
160a Broadwell-U Integrated Graphics

160b Broadwell-U Integrated Graphics
160c Broadwell-U Audio Controller
160d Broadwell-U Integrated Graphics
160e Broadwell-U Integrated Graphics
160f Broadwell-U SoftSKU
1610 Broadwell-U Host Bridge - DMI
1612 HD Graphics 5600
1614 Broadwell-U Host Bridge - DMI
1616 HD Graphics 5500
103c 2216 ZBook 15u G2 Mobile Workstation
1618 Broadwell-U Host Bridge - DMI
161a Broadwell-U Integrated
Graphics
161b Broadwell-U Integrated Graphics
161d Broadwell-U Integrated Graphics
161e HD Graphics 5300
1622 Iris Pro Graphics 6200
1626 HD Graphics 6000
162a Iris Pro Graphics P6300
162b Iris Graphics 6100
162d Broadwell-U Integrated Graphics
162e Broadwell-U Integrated Graphics
1632 Broadwell-U Integrated Graphics
1636 Broadwell-U Integrated Graphics
163a Broadwell-U Integrated Graphics
163b Broadwell-U Integrated Graphics
163d Broadwell-U Integrated Graphics
163e Broadwell-U Integrated Graphics
1889 Ethernet Adaptive Virtual Function
18a0 C4xxx Series QAT
18a1 C4XXX Series QAT Virtual Function
1900 Xeon E3-1200 v5/E3-1500 v5/6th Gen Core Processor Host Bridge/DRAM Registers
1901 Xeon E3-1200 v5/E3-1500 v5/6th Gen Core Processor PCIe Controller (x16)
1902 HD Graphics 510
1903 Xeon E3-1200 v5/E3-1500 v5/6th Gen Core Processor Thermal Subsystem
1028 06dc Latitude E7470
1028 06e4 XPS 15 9550
103c 825b OMEN-17-w001nv
17aa 225d ThinkPad
T480
1904 Xeon E3-1200 v5/E3-1500 v5/6th Gen Core Processor Host Bridge/DRAM Registers
1028 06dc Latitude E7470
1028 06f3 Latitude 3570
103c 8079 EliteBook 840 G3
17aa 382a B51-80 Laptop
1905 Xeon E3-1200 v5/E3-1500 v5/6th Gen Core Processor PCIe Controller (x8)
1906 HD Graphics 510
17aa 382a B51-80 Laptop

1908 Xeon E3-1200 v5/E3-1500 v5/6th Gen Core Processor Host Bridge/DRAM Registers
1909 Xeon E3-1200 v5/E3-1500 v5/6th Gen Core Processor PCIe Controller (x4)
190c Xeon E3-1200 v5/E3-1500 v5/6th Gen Core Processor Host Bridge/DRAM Registers
190f Xeon E3-1200 v5/E3-1500 v5/6th Gen Core Processor Host Bridge/DRAM Registers
1910 Xeon E3-1200 v5/E3-1500 v5/6th Gen Core Processor Host Bridge/DRAM Registers
 1028 06e4 XPS 15 9550
 103c 825b OMEN-17-w001nv
1911 Xeon E3-1200 v5/v6 / E3-1500 v5 / 6th/7th/8th Gen Core Processor Gaussian Mixture Model
 17aa 2247 ThinkPad T570
 17aa 224f ThinkPad X1 Carbon 5th Gen
 17aa 225d ThinkPad T480
1912
HD Graphics 530
1916 Skylake GT2 [HD Graphics 520]
 1028 06dc Latitude E7470
 1028 06f3 Latitude 3570
 103c 8079 EliteBook 840 G3
1918 Xeon E3-1200 v5/E3-1500 v5/6th Gen Core Processor Host Bridge/DRAM Registers
1919 Xeon E3-1200 v5/E3-1500 v5/6th Gen Core Processor Imaging Unit
191b HD Graphics 530
 1028 06e4 XPS 15 9550
 103c 825b OMEN-17-w001nv
191d HD Graphics P530
191e HD Graphics 515
191f Xeon E3-1200 v5/E3-1500 v5/6th Gen Core Processor Host Bridge/DRAM Registers
1921 HD Graphics 520
1926 Iris Graphics 540
1927 Iris Graphics 550
192b Iris Graphics 555
192d Iris Graphics P555
1932 Iris Pro Graphics 580
193a Iris Pro Graphics P580
193b Iris Pro Graphics 580
193d Iris Pro Graphics P580
1960 80960RP (i960RP) Microprocessor
 101e 0431 MegaRAID 431 RAID Controller
 101e 0438 MegaRAID 438 Ultra2 LVD RAID Controller
 101e 0466 MegaRAID 466 Express Plus RAID Controller
 101e 0467 MegaRAID 467 Enterprise 1500 RAID Controller
 101e 0490
MegaRAID 490 Express 300 RAID Controller
 101e 0762 MegaRAID 762 Express RAID Controller
 101e 09a0 PowerEdge Expandable RAID Controller 2/SC
 1028 0467 PowerEdge Expandable RAID Controller 2/DC
 1028 1111 PowerEdge Expandable RAID Controller 2/SC
 103c 03a2 MegaRAID
 103c 10c6 MegaRAID 438, NetRAID-3Si
 103c 10c7 MegaRAID T5, Integrated NetRAID

103c 10cc MegaRAID, Integrated NetRAID
103c 10cd NetRAID-1Si
105a 0000 SuperTrak
105a 2168 SuperTrak Pro
105a 5168 SuperTrak66/100
1111 1111 MegaRAID 466, PowerEdge Expandable RAID Controller 2/SC
1111 1112 PowerEdge Expandable RAID Controller 2/SC
113c 03a2 MegaRAID
e4bf 1010 CG1-RADIO
e4bf 1020 CU2-QUARTET
e4bf 1040 CU1-CHORUS
e4bf 3100 CX1-BAND
1962 80960RM (i960RM) Microprocessor
105a 0000 SuperTrak SX6000 I2O CPU
1964 80960RN (i960RN) Microprocessor
1980 Atom Processor C3000 Series System Agent
19a1 Atom Processor C3000 Series Error Registers
19a2 Atom Processor C3000 Series Root
Complex Event Collector
19a3 Atom Processor C3000 Series Integrated QAT Root Port
19a4 Atom Processor C3000 Series PCI Express Root Port #0
19a5 Atom Processor C3000 Series PCI Express Root Port #1
19a6 Atom Processor C3000 Series PCI Express Root Port #2
19a7 Atom Processor C3000 Series PCI Express Root Port #3
19a8 Atom Processor C3000 Series PCI Express Root Port #4
19a9 Atom Processor C3000 Series PCI Express Root Port #5
19aa Atom Processor C3000 Series PCI Express Root Port #6
19ab Atom Processor C3000 Series PCI Express Root Port #7
19ac Atom Processor C3000 Series SMBus Contoller - Host
19b0 Atom Processor C3000 Series SATA Controller 0
19b1 Atom Processor C3000 Series SATA Controller 0
19b2 Atom Processor C3000 Series SATA Controller 0
19b3 Atom Processor C3000 Series SATA Controller 0
19b4 Atom Processor C3000 Series SATA Controller 0
19b5 Atom Processor C3000 Series SATA Controller 0
19b6 Atom Processor C3000 Series SATA Controller 0
19b7
Atom Processor C3000 Series SATA Controller 0
19be Atom Processor C3000 Series SATA Controller 0
19bf Atom Processor C3000 Series SATA Controller 0
19c0 Atom Processor C3000 Series SATA Controller 1
19c1 Atom Processor C3000 Series SATA Controller 1
19c2 Atom Processor C3000 Series SATA Controller 1
19c3 Atom Processor C3000 Series SATA Controller 1
19c4 Atom Processor C3000 Series SATA Controller 1
19c5 Atom Processor C3000 Series SATA Controller 1
19c6 Atom Processor C3000 Series SATA Controller 1
19c7 Atom Processor C3000 Series SATA Controller 1

19ce Atom Processor C3000 Series SATA Controller 1
19cf Atom Processor C3000 Series SATA Controller 1
19d0 Atom Processor C3000 Series USB 3.0 xHCI Controller
19d1 Atom Processor C3000 Series Integrated LAN Root Port #0
19d2 Atom Processor C3000 Series Integrated LAN Root Port #1
19d3 Atom Processor C3000 Series ME HECI 1
19d4 Atom Processor C3000 Series ME HECI 2
19d5 Atom Processor C3000 Series ME KT
Controller
19d6 Atom Processor C3000 Series ME HECI 3
19d8 Atom Processor C3000 Series HSUART Controller
19dc Atom Processor C3000 Series LPC or eSPI
19dd Atom Processor C3000 Series Primary to Side Band (P2SB) Bridge
19de Atom Processor C3000 Series Power Management Controller
19df Atom Processor C3000 Series SMBus controller
19e0 Atom Processor C3000 Series SPI Controller
19e2 Atom Processor C3000 Series QuickAssist Technology
1a1c Ethernet Connection (17) I219-LM
1a1d Ethernet Connection (17) I219-V
1a1e Ethernet Connection (16) I219-LM
1a1f Ethernet Connection (16) I219-V
1a21 82840 840 [Carmel] Chipset Host Bridge (Hub A)
1a23 82840 840 [Carmel] Chipset AGP Bridge
1a24 82840 840 [Carmel] Chipset PCI Bridge (Hub B)
1a30 82845 845 [Brookdale] Chipset Host Bridge
 1028 010e Optiplex GX240
 147b 0505 BL7 motherboard
 15d9 3280 Supermicro P4SBE Mainboard
1a31 82845 845 [Brookdale] Chipset AGP Bridge
1a38 5000 Series Chipset DMA Engine
 15d9
8680 X7DVL-E-O motherboard
 8086 3476 S5000PSLSATA Server Board
1a48 82597EX 10GbE Ethernet Controller
 8086 a01f PRO/10GbE SR Server Adapter
 8086 a11f PRO/10GbE SR Server Adapter
1b48 82597EX 10GbE Ethernet Controller
 8086 a01f PRO/10GbE LR Server Adapter
 8086 a11f PRO/10GbE LR Server Adapter
1c00 6 Series/C200 Series Chipset Family Desktop SATA Controller (IDE mode, ports 0-3)
1c01 6 Series/C200 Series Chipset Family Mobile SATA Controller (IDE mode, ports 0-3)
1c02 6 Series/C200 Series Chipset Family 6 port Desktop SATA AHCI Controller
 1028 04aa XPS 8300
 1043 844d P8 series motherboard
 8086 7270 Server Board S1200BT Family
1c03 6 Series/C200 Series Chipset Family 6 port Mobile SATA AHCI Controller
 1028 04a3 Precision M4600
 1028 04b2 Vostro 3350

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 1028 04da  Vostro 3750
 17aa 21cf  ThinkPad T520
 8086 7270  Apple MacBookPro8,2 [Core i7, 15", 2011]
1c04  6 Series/C200 Series Desktop SATA RAID Controller
 103c 3118  Smart Array B110i SATA RAID
Controller
1c05  6 Series/C200 Series Mobile SATA RAID Controller
1c06  Z68 Express Chipset SATA RAID Controller
1c08  6 Series/C200 Series Chipset Family Desktop SATA Controller (IDE mode, ports 4-5)
1c09  6 Series/C200 Series Chipset Family Mobile SATA Controller (IDE mode, ports 4-5)
1c10  6 Series/C200 Series Chipset Family PCI Express Root Port 1
 1028 04aa  XPS 8300
 1028 04da  Vostro 3750
 1043 844d  P8 series motherboard
 17aa 21cf  ThinkPad T520
 8086 7270  Server Board S1200BTS / Apple MacBook Pro 8,1/8,2
1c12  6 Series/C200 Series Chipset Family PCI Express Root Port 2
 1028 04aa  XPS 8300
 17aa 21cf  ThinkPad T520
 8086 7270  Apple MacBookPro8,2 [Core i7, 15", 2011]
1c14  6 Series/C200 Series Chipset Family PCI Express Root Port 3
 1028 04da  Vostro 3750
 8086 7270  Apple MacBookPro8,2 [Core i7, 15", 2011]
1c16  6 Series/C200 Series Chipset Family PCI Express Root Port 4
 1028 04aa  XPS 8300
 17aa 21cf  ThinkPad T520
1c18  6 Series/C200 Series Chipset
Family PCI Express Root Port 5
 1028 04da  Vostro 3750
 17aa 21cf  ThinkPad T520
 8086 7270  Server Board S1200BTS
1c1a  6 Series/C200 Series Chipset Family PCI Express Root Port 6
 1028 04da  Vostro 3750
 1043 844d  P8 series motherboard
1c1c  6 Series/C200 Series Chipset Family PCI Express Root Port 7
1c1e  6 Series/C200 Series Chipset Family PCI Express Root Port 8
 1043 844d  P8 series motherboard
1c20  6 Series/C200 Series Chipset Family High Definition Audio Controller
 1028 0490  Alienware M17x R3
 1028 04a3  Precision M4600
 1028 04aa  XPS 8300
 1028 04b2  Vostro 3350
 1028 04da  Vostro 3750
 1043 8418  P8P67 Deluxe Motherboard
 1043 841b  P8H67 Series Motherboard
 17aa 21cf  ThinkPad T520
# Realtek ALC888 audio codec
 8086 2008  DQ67SW board
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8086 7270 Apple MacBookPro8,2 [Core i7, 15", 2011]
1c22 6 Series/C200 Series Chipset Family SMBus Controller
1028 04a3 Precision M4600
1028 04aa XPS 8300
1028 04b2 Vostro 3350
1028 04da Vostro 3750
1043
844d P8 series motherboard
17aa 21cf ThinkPad T520
8086 7270 Server Board S1200BT Family / Apple MacBook Pro 8,1/8,2
1c24 6 Series/C200 Series Chipset Family Thermal Management Controller
1c25 6 Series/C200 Series Chipset Family DMI to PCI Bridge
1c26 6 Series/C200 Series Chipset Family USB Enhanced Host Controller #1
1028 04a3 Precision M4600
1028 04aa XPS 8300
1028 04b2 Vostro 3350
1028 04da Vostro 3750
1043 844d P8 series motherboard
17aa 21cf ThinkPad T520
8086 7270 Server Board S1200BT Family / Apple MacBook Pro 8,1/8,2
1c27 6 Series/C200 Series Chipset Family USB Universal Host Controller #1
8086 7270 Apple MacBookPro8,2 [Core i7, 15", 2011]
1c2c 6 Series/C200 Series Chipset Family USB Universal Host Controller #5
8086 7270 Apple MacBookPro8,2 [Core i7, 15", 2011]
1c2d 6 Series/C200 Series Chipset Family USB Enhanced Host Controller #2
1028 04a3 Precision M4600
1028 04aa XPS 8300
1028 04b2 Vostro 3350
1028 04da Vostro
3750
1043 844d P8 series motherboard
17aa 21cf ThinkPad T520
8086 7270 Server Board S1200BT Family / Apple MacBook Pro 8,1/8,2
1c33 6 Series/C200 Series Chipset Family LAN Controller
1c35 6 Series/C200 Series Chipset Family VECI Controller
1c3a 6 Series/C200 Series Chipset Family MEI Controller #1
1028 04a3 Precision M4600
1028 04aa XPS 8300
1028 04b2 Vostro 3350
1028 04da Vostro 3750
1043 844d P8 series motherboard
17aa 21cf ThinkPad T520
8086 7270 Apple MacBookPro8,2 [Core i7, 15", 2011]
1c3b 6 Series/C200 Series Chipset Family MEI Controller #2
1c3c 6 Series/C200 Series Chipset Family IDE-r Controller
1c3d 6 Series/C200 Series Chipset Family KT Controller
1c40 6 Series/C200 Series Chipset Family LPC Controller
1c41 Mobile SFF 6 Series Chipset Family LPC Controller

1c42 6 Series/C200 Series Chipset Family LPC Controller
1c43 Mobile 6 Series Chipset Family LPC Controller
1c44 Z68 Express Chipset LPC Controller
1c45 6 Series/C200 Series
Chipset Family LPC Controller
1c46 P67 Express Chipset LPC Controller
 1043 844d P8P67 Deluxe Motherboard
1c47 UM67 Express Chipset LPC Controller
1c48 6 Series/C200 Series Chipset Family LPC Controller
1c49 HM65 Express Chipset LPC Controller
 8086 7270 Apple MacBookPro8,2 [Core i7, 15", 2011]
1c4a H67 Express Chipset LPC Controller
 1028 04aa XPS 8300
 1043 844d P8H67 Series Motherboard
1c4b HM67 Express Chipset LPC Controller
 1028 04b2 Vostro 3350
 1028 04da Vostro 3750
1c4c Q65 Express Chipset LPC Controller
1c4d QS67 Express Chipset LPC Controller
1c4e Q67 Express Chipset LPC Controller
1c4f QM67 Express Chipset LPC Controller
 1028 04a3 Precision M4600
 17aa 21cf ThinkPad T520
1c50 B65 Express Chipset LPC Controller
1c51 6 Series/C200 Series Chipset Family LPC Controller
1c52 C202 Chipset LPC Controller
 8086 7270 Server Board S1200BTS
1c53 6 Series/C200 Series Chipset Family LPC Controller
1c54 C204 Chipset LPC Controller
1c55
 6 Series/C200 Series Chipset Family LPC Controller
1c56 C206 Chipset LPC Controller
 1043 844d P8B WS Motherboard
1c57 6 Series/C200 Series Chipset Family LPC Controller
1c58 Upgraded B65 Express Chipset LPC Controller
1c59 Upgraded HM67 Express Chipset LPC Controller
1c5a Upgraded Q67 Express Chipset LPC Controller
1c5b 6 Series/C200 Series Chipset Family LPC Controller
1c5c H61 Express Chipset LPC Controller
1c5d 6 Series/C200 Series Chipset Family LPC Controller
1c5e 6 Series/C200 Series Chipset Family LPC Controller
1c5f 6 Series/C200 Series Chipset Family LPC Controller
1d00 C600/X79 series chipset 4-Port SATA IDE Controller
1d02 C600/X79 series chipset 6-Port SATA AHCI Controller
 1028 04f7 C602J on PowerEdge R320 server
1d04 C600/X79 series chipset SATA RAID Controller
1d06 C600/X79 series chipset SATA Premium RAID Controller
1d08 C600/X79 series chipset 2-Port SATA IDE Controller

1d10 C600/X79 series chipset PCI Express Root Port 1
 1028
04f7 C602J on PowerEdge R320 server
1d11 C600/X79 series chipset PCI Express Root Port 1
1d12 C600/X79 series chipset PCI Express Root Port 2
1d13 C600/X79 series chipset PCI Express Root Port 2
1d14 C600/X79 series chipset PCI Express Root Port 3
1d15 C600/X79 series chipset PCI Express Root Port 3
1d16 C600/X79 series chipset PCI Express Root Port 4
1d17 C600/X79 series chipset PCI Express Root Port 4
1d18 C600/X79 series chipset PCI Express Root Port 5
 1028 04f7 C602J on PowerEdge R320 server
1d19 C600/X79 series chipset PCI Express Root Port 5
1d1a C600/X79 series chipset PCI Express Root Port 6
1d1b C600/X79 series chipset PCI Express Root Port 6
1d1c C600/X79 series chipset PCI Express Root Port 7
1d1d C600/X79 series chipset PCI Express Root Port 7
1d1e C600/X79 series chipset PCI Express Root Port 8
 1028 04f7 C602J on PowerEdge R320 server
1d1f C600/X79 series chipset PCI Express Root Port 8
1d20 C600/X79 series chipset High Definition Audio
Controller
1d22 C600/X79 series chipset SMBus Host Controller
 15d9 066b X9SRL-F
1d24 C600/X79 series chipset Thermal Management Controller
 15d9 066b X9SRL-F
1d25 C600/X79 series chipset DMI to PCI Bridge
1d26 C600/X79 series chipset USB2 Enhanced Host Controller #1
 1028 04f7 C602J on PowerEdge R320 server
 15d9 066b X9SRL-F
1d2d C600/X79 series chipset USB2 Enhanced Host Controller #2
 1028 04f7 C602J on PowerEdge R320 server
 15d9 066b X9SRL-F
1d33 C600/X79 series chipset LAN Controller
1d35 C600/X79 series chipset VECI Controller
1d3a C600/X79 series chipset MEI Controller #1
 1028 04f7 C602J on PowerEdge R320 server
 15d9 066b X9SRL-F
1d3b C600/X79 series chipset MEI Controller #2
 1028 04f7 C602J on PowerEdge R320 server
 15d9 066b X9SRL-F
1d3c C600/X79 series chipset IDE-r Controller
1d3d C600/X79 series chipset KT Controller
1d3e C600/X79 series chipset PCI Express Virtual Root Port
 1028 04f7 C602J on PowerEdge R320 server
1d3f
 C608/C606/X79 series chipset PCI Express Virtual Switch Port
1d40 C600/X79 series chipset LPC Controller

1d41 C600/X79 series chipset LPC Controller
 1028 04f7 C602J on PowerEdge R320 server
 15d9 066b X9SRL-F
1d50 C608 chipset Dual 4-Port SATA/SAS Storage Control Unit
1d54 C600/X79 series chipset Dual 4-Port SATA/SAS Storage Control Unit
1d55 C600/X79 series chipset 4-Port SATA/SAS Storage Control Unit
1d58 C606 chipset Dual 4-Port SATA/SAS Storage Control Unit
1d59 C604/X79 series chipset 4-Port SATA/SAS Storage Control Unit
1d5a C600/X79 series chipset Dual 4-Port SATA Storage Control Unit
1d5b C602 chipset 4-Port SATA Storage Control Unit
1d5c C600/X79 series chipset Dual 4-Port SATA/SAS Storage Control Unit
1d5d C600/X79 series chipset 4-Port SATA/SAS Storage Control Unit
1d5e C600/X79 series chipset Dual 4-Port SATA Storage Control Unit
1d5f C600/X79 series chipset 4-Port SATA Storage Control Unit
1d60 C608 chipset Dual 4-Port SATA/SAS Storage
Control Unit
1d64 C600/X79 series chipset Dual 4-Port SATA/SAS Storage Control Unit
1d65 C600/X79 series chipset 4-Port SATA/SAS Storage Control Unit
1d68 C606 chipset Dual 4-Port SATA/SAS Storage Control Unit
1d69 C604/X79 series chipset 4-Port SATA/SAS Storage Control Unit
1d6a C600/X79 series chipset Dual 4-Port SATA Storage Control Unit
1d6b C602 chipset 4-Port SATA Storage Control Unit
 0497 1028 Dell Precision T3600
1d6c C600/X79 series chipset Dual 4-Port SATA/SAS Storage Control Unit
1d6d C600/X79 series chipset 4-Port SATA/SAS Storage Control Unit
1d6e C600/X79 series chipset Dual 4-Port SATA Storage Control Unit
1d6f C600/X79 series chipset 4-Port SATA Storage Control Unit
1d70 C600/X79 series chipset SMBus Controller 0
1d71 C608/C606/X79 series chipset SMBus Controller 1
1d72 C608 chipset SMBus Controller 2
1d74 C608/C606/X79 series chipset PCI Express Upstream Port
1d76 C600/X79 series chipset Multi-Function Glue
1e00 7 Series/C210 Series Chipset
Family 4-port SATA Controller [IDE mode]
1e01 7 Series Chipset Family 4-port SATA Controller [IDE mode]
 144d c652 NP300E5C series laptop
1e02 7 Series/C210 Series Chipset Family 6-port SATA Controller [AHCI mode]
 1043 84ca P8 series motherboard
 1849 1e02 Motherboard
1e03 7 Series Chipset Family 6-port SATA Controller [AHCI mode]
 1043 108d VivoBook X202EV
 1043 1477 N56VZ
 1043 1517 Zenbook Prime UX31A
 10cf 16e2 LIFEBOOK E752
 144d c652 NP300E5C series laptop
1e04 7 Series/C210 Series Chipset Family SATA Controller [RAID mode]
1e05 7 Series Chipset SATA Controller [RAID mode]
1e06 7 Series/C210 Series Chipset Family SATA Controller [RAID mode]

1e07 7 Series Chipset Family SATA Controller [RAID mode]
1e08 7 Series/C210 Series Chipset Family 2-port SATA Controller [IDE mode]
1e09 7 Series Chipset Family 2-port SATA Controller [IDE mode]
 144d c652 NP300E5C series laptop
1e0e 7 Series/C210 Series Chipset Family SATA Controller [RAID mode]
1e10
 7 Series/C216 Chipset Family PCI Express Root Port 1
 1043 108d VivoBook X202EV
 1043 1477 N56VZ
 1043 1517 Zenbook Prime UX31A
 1043 84ca P8H77-I Motherboard
 10cf 16e9 LIFEBOOK E752
 144d c652 NP300E5C series laptop
 1849 1e10 Motherboard
1e12 7 Series/C210 Series Chipset Family PCI Express Root Port 2
 1043 108d VivoBook X202EV
 1043 1477 N56VZ
 1043 1517 Zenbook Prime UX31A
1e14 7 Series/C210 Series Chipset Family PCI Express Root Port 3
 10cf 16e9 LIFEBOOK E752
1e16 7 Series/C216 Chipset Family PCI Express Root Port 4
 1043 108d VivoBook X202EV
 1043 1477 N56VZ
 144d c652 NP300E5C series laptop
 1849 1618 Z77 Extreme4 motherboard
1e18 7 Series/C210 Series Chipset Family PCI Express Root Port 5
 1043 84ca P8H77-I Motherboard
 1849 1e18 Motherboard
1e1a 7 Series/C210 Series Chipset Family PCI Express Root Port 6
 1849 1e1a Motherboard
1e1c 7 Series/C210 Series Chipset Family PCI Express Root Port 7
1e1e 7 Series/C210 Series Chipset
Family PCI Express Root Port 8
 10cf 16e9 LIFEBOOK E752
 1849 1e1e Motherboard
1e20 7 Series/C216 Chipset Family High Definition Audio Controller
 1028 054b XPS One 2710
 1043 108d VivoBook X202EV
 1043 1477 N56VZ
 1043 1517 Zenbook Prime UX31A
 1043 8415 P8H77-I Motherboard
 1043 8445 P8Z77-V LX Motherboard
 10cf 1757 LIFEBOOK E752
 144d c652 NP300E5C series laptop
 1849 1898 Z77 Extreme4 motherboard
1e22 7 Series/C216 Chipset Family SMBus Controller
 1043 108d VivoBook X202EV
 1043 1477 N56VZ

1043 1517 Zenbook Prime UX31A
1043 84ca P8 series motherboard
10cf 16e6 LIFEBOOK E752
144d c652 NP300E5C series laptop
1849 1e22 Motherboard
1e24 7 Series/C210 Series Chipset Family Thermal Management Controller
1043 1517 Zenbook Prime UX31A
1e25 7 Series/C210 Series Chipset Family DMI to PCI Bridge
1e26 7 Series/C216 Chipset Family USB Enhanced Host Controller #1
1043 108d VivoBook X202EV
1043 1477 N56VZ
1043 1517 Zenbook Prime
UX31A
1043 84ca P8 series motherboard
10cf 16e8 LIFEBOOK E752
144d c652 NP300E5C series laptop
1849 1e26 Motherboard
1e2d 7 Series/C216 Chipset Family USB Enhanced Host Controller #2
1043 108d VivoBook X202EV
1043 1477 N56VZ
1043 1517 Zenbook Prime UX31A
1043 84ca P8 series motherboard
10cf 16e8 LIFEBOOK E752
144d c652 NP300E5C series laptop
1849 1e2d Motherboard
1e31 7 Series/C210 Series Chipset Family USB xHCI Host Controller
103c 179b Elitebook 8470p
103c 17ab ProBook 6570b
1043 108d VivoBook X202EV
1043 1477 N56VZ
1043 1517 Zenbook Prime UX31A
1043 84ca P8 series motherboard
10cf 16ee LIFEBOOK E752
17aa 21f3 ThinkPad T430
1849 1e31 Motherboard
1e33 7 Series/C210 Series Chipset Family LAN Controller
1e3a 7 Series/C216 Chipset Family MEI Controller #1
1043 108d VivoBook X202EV
1043 1477 N56VZ
1043 1517 Zenbook Prime UX31A
1043 84ca P8 series motherboard
10cf 16ea LIFEBOOK E752
144d c652 NP300E5C series
laptop
1849 1e3a Motherboard
1e3b 7 Series/C210 Series Chipset Family MEI Controller #2
1e3c 7 Series/C210 Series Chipset Family IDE-r Controller
1e3d 7 Series/C210 Series Chipset Family KT Controller

1e41 7 Series Chipset Family LPC Controller
1e42 7 Series Chipset Family LPC Controller
1e43 7 Series Chipset Family LPC Controller
1e44 Z77 Express Chipset LPC Controller
 1043 84ca P8 series motherboard
 1849 1e44 Motherboard
1e45 7 Series Chipset Family LPC Controller
1e46 Z75 Express Chipset LPC Controller
1e47 Q77 Express Chipset LPC Controller
1e48 Q75 Express Chipset LPC Controller
1e49 B75 Express Chipset LPC Controller
1e4a H77 Express Chipset LPC Controller
 1043 84ca P8H77-I Motherboard
1e4b 7 Series Chipset Family LPC Controller
1e4c 7 Series Chipset Family LPC Controller
1e4d 7 Series Chipset Family LPC Controller
1e4e 7 Series Chipset Family LPC Controller
1e4f 7 Series Chipset Family LPC Controller
1e50 7 Series Chipset Family
LPC Controller
1e51 7 Series Chipset Family LPC Controller
1e52 7 Series Chipset Family LPC Controller
1e53 C216 Series Chipset LPC Controller
1e54 7 Series Chipset Family LPC Controller
1e55 QM77 Express Chipset LPC Controller
1e56 QS77 Express Chipset LPC Controller
1e57 HM77 Express Chipset LPC Controller
1e58 UM77 Express Chipset LPC Controller
1e59 HM76 Express Chipset LPC Controller
 1043 1477 N56VZ
 1043 1517 Zenbook Prime UX31A
 10cf 16e0 LIFEBOOK E752
1e5a 7 Series Chipset Family LPC Controller
1e5b UM77 Express Chipset LPC Controller
1e5c 7 Series Chipset Family LPC Controller
1e5d HM75 Express Chipset LPC Controller
 144d c652 NP300E5C series laptop
1e5e HM70 Express Chipset LPC Controller
 1043 108d VivoBook X202EV
1e5f NM70 Express Chipset LPC Controller
1f00 Atom processor C2000 SoC Transaction Router
1f01 Atom processor C2000 SoC Transaction Router
1f02 Atom processor C2000 SoC Transaction Router
1f03 Atom processor C2000
SoC Transaction Router
1f04 Atom processor C2000 SoC Transaction Router
1f05 Atom processor C2000 SoC Transaction Router
1f06 Atom processor C2000 SoC Transaction Router

1f07 Atom processor C2000 SoC Transaction Router
1f08 Atom processor C2000 SoC Transaction Router
1f09 Atom processor C2000 SoC Transaction Router
1f0a Atom processor C2000 SoC Transaction Router
1f0b Atom processor C2000 SoC Transaction Router
1f0c Atom processor C2000 SoC Transaction Router
1f0d Atom processor C2000 SoC Transaction Router
1f0e Atom processor C2000 SoC Transaction Router
1f0f Atom processor C2000 SoC Transaction Router
1f10 Atom processor C2000 PCIe Root Port 1
1f11 Atom processor C2000 PCIe Root Port 2
1f12 Atom processor C2000 PCIe Root Port 3
1f13 Atom processor C2000 PCIe Root Port 4
1f14 Atom processor C2000 RAS
1f15 Atom processor C2000 SMBus 2.0
1f16 Atom processor C2000 RCEC
1f18 Atom processor C2000 QAT
1f19 Atom processor C2000 QAT
1f20 Atom processor
C2000 4-Port IDE SATA2 Controller
1f21 Atom processor C2000 4-Port IDE SATA2 Controller
1f22 Atom processor C2000 AHCI SATA2 Controller
1f23 Atom processor C2000 AHCI SATA2 Controller
1f24 Atom processor C2000 RAID SATA2 Controller
1f25 Atom processor C2000 RAID SATA2 Controller
1f26 Atom processor C2000 RAID SATA2 Controller
1f27 Atom processor C2000 RAID SATA2 Controller
1f2c Atom processor C2000 USB Enhanced Host Controller
1f2e Atom processor C2000 RAID SATA2 Controller
1f2f Atom processor C2000 RAID SATA2 Controller
1f30 Atom processor C2000 2-Port IDE SATA3 Controller
1f31 Atom processor C2000 2-Port IDE SATA3 Controller
1f32 Atom processor C2000 AHCI SATA3 Controller
1f33 Atom processor C2000 AHCI SATA3 Controller
1f34 Atom processor C2000 RAID SATA3 Controller
1f35 Atom processor C2000 RAID SATA3 Controller
1f36 Atom processor C2000 RAID SATA3 Controller
1f37 Atom processor C2000 RAID SATA3 Controller
1f38 Atom processor C2000 PCU
1f39
Atom processor C2000 PCU
1f3a Atom processor C2000 PCU
1f3b Atom processor C2000 PCU
1f3c Atom processor C2000 PCU SMBus
1f3d Atom Processor C2000 PECI SMBus
1f3e Atom processor C2000 RAID SATA3 Controller
1f3f Atom processor C2000 RAID SATA3 Controller
1f40 Ethernet Connection I354 1.0 GbE Backplane

1028 05f1 Ethernet Connection I354 1.0 GbE Backplane
1f41 Ethernet Connection I354
1f42 Atom processor C2000 GbE
1f44 Atom processor C2000 GbE Virtual Function
1f45 Ethernet Connection I354 2.5 GbE Backplane
2014 Sky Lake-E Ubox Registers
2015 Sky Lake-E Ubox Registers
2016 Sky Lake-E Ubox Registers
2018 Sky Lake-E M2PCI Registers
201a Sky Lake-E Non-Transparent Bridge Registers
201c Sky Lake-E Non-Transparent Bridge Registers
201d Volume Management Device NVMe RAID Controller
2020 Sky Lake-E DMI3 Registers
15d9 095d X11SPM-TF
2021 Sky Lake-E CBDMA Registers
2024 Sky Lake-E MM/Vt-d Configuration Registers
2025 Sky Lake-E RAS
2026 Sky
Lake-E IOAPIC
2030 Sky Lake-E PCI Express Root Port A
2031 Sky Lake-E PCI Express Root Port B
2032 Sky Lake-E PCI Express Root Port C
2033 Sky Lake-E PCI Express Root Port D
2034 Sky Lake-E VT-d
2035 Sky Lake-E RAS Configuration Registers
2036 Sky Lake-E IOxAPIC Configuration Registers
2040 Sky Lake-E Integrated Memory Controller
2041 Sky Lake-E Integrated Memory Controller
2042 Sky Lake-E Integrated Memory Controller
2043 Sky Lake-E Integrated Memory Controller
2044 Sky Lake-E Integrated Memory Controller
2045 Sky Lake-E LM Channel 1
2046 Sky Lake-E LMS Channel 1
2047 Sky Lake-E LMDP Channel 1
2048 Sky Lake-E DECS Channel 2
2049 Sky Lake-E LM Channel 2
204a Sky Lake-E LMS Channel 2
204b Sky Lake-E LMDP Channel 2
204c Sky Lake-E M3KTI Registers
204d Sky Lake-E M3KTI Registers
204e Sky Lake-E M3KTI Registers
2054 Sky Lake-E CHA Registers
2055 Sky Lake-E CHA Registers
2056 Sky Lake-E CHA Registers
2057 Sky Lake-E CHA Registers
2058
Sky Lake-E KTI 0
2059 Sky Lake-E UPI Registers

2066 Sky Lake-E Integrated Memory Controller
2068 Sky Lake-E DDRIO Registers
2069 Sky Lake-E DDRIO Registers
206a Sky Lake-E IOxAPIC Configuration Registers
206e Sky Lake-E DDRIO Registers
206f Sky Lake-E DDRIO Registers
2078 Sky Lake-E PCU Registers
207a Sky Lake-E PCU Registers
2080 Sky Lake-E PCU Registers
2081 Sky Lake-E PCU Registers
2082 Sky Lake-E PCU Registers
2083 Sky Lake-E PCU Registers
2084 Sky Lake-E PCU Registers
2085 Sky Lake-E PCU Registers
2086 Sky Lake-E PCU Registers
2088 Sky Lake-E DDRIO Registers
208d Sky Lake-E CHA Registers
208e Sky Lake-E CHA Registers
2241 Larrabee
2250 Xeon Phi coprocessor 5100 series
225c Xeon Phi coprocessor SE10/7120 series
225d Xeon Phi coprocessor 3120 series
225e Xeon Phi coprocessor 31S1
2262 Xeon Phi coprocessor 7220
2280 Atom/Celeron/Pentium Processor x5-E8000/J3xxx/N3xxx Series SoC Transaction Register
2284 Atom/Celeron/Pentium Processor
x5-E8000/J3xxx/N3xxx Series High Definition Audio Controller
2286 Atom/Celeron/Pentium Processor x5-E8000/J3xxx/N3xxx Series LPIO1 DMA Controller
228a Atom/Celeron/Pentium Processor x5-E8000/J3xxx/N3xxx Series LPIO1 HSUART Controller #1
228c Atom/Celeron/Pentium Processor x5-E8000/J3xxx/N3xxx Series LPIO1 HSUART Controller #2
2292 Atom/Celeron/Pentium Processor x5-E8000/J3xxx/N3xxx SMBus Controller
2294 Atom/Celeron/Pentium Processor x5-E8000/J3xxx/N3xxx Series MMC Controller
2295 Atom/Celeron/Pentium Processor x5-E8000/J3xxx/N3xxx Series SDIO Controller
2296 Atom/Celeron/Pentium Processor x5-E8000/J3xxx/N3xxx Series SD Controller
2298 Atom/Celeron/Pentium Processor x5-E8000/J3xxx/N3xxx Series Trusted Execution Engine
229c Atom/Celeron/Pentium Processor x5-E8000/J3xxx/N3xxx Series PCU
22a3 Atom/Celeron/Pentium Processor x5-E8000/J3xxx/N3xxx Series SATA Controller
22a4 Atom/Celeron/Pentium Processor x5-E8000/J3xxx/N3xxx Series SATA AHCI Controller
22a8 Atom/Celeron/Pentium
Processor x5-E8000/J3xxx/N3xxx Series Low Power Engine Audio
22b0 Atom/Celeron/Pentium Processor x5-E8000/J3xxx/N3xxx Integrated Graphics Controller
22b1 Atom/Celeron/Pentium Processor x5-E8000/J3xxx/N3xxx Integrated Graphics Controller
22b5 Atom/Celeron/Pentium Processor x5-E8000/J3xxx/N3xxx Series USB xHCI Controller
22b8 Atom/Celeron/Pentium Processor x5-E8000/J3xxx/N3xxx Series Imaging Unit
22c0 Atom/Celeron/Pentium Processor x5-E8000/J3xxx/N3xxx Series LPIO2 DMA Controller
22c1 Atom/Celeron/Pentium Processor x5-E8000/J3xxx/N3xxx Series LPIO2 I2C Controller #1
22c2 Atom/Celeron/Pentium Processor x5-E8000/J3xxx/N3xxx Series LPIO2 I2C Controller #2
22c3 Atom/Celeron/Pentium Processor x5-E8000/J3xxx/N3xxx Series LPIO2 I2C Controller #3

22c4 Atom/Celeron/Pentium Processor x5-E8000/J3xxx/N3xxx Series LPIO2 I2C Controller #4
22c5 Atom/Celeron/Pentium Processor x5-E8000/J3xxx/N3xxx Series LPIO2 I2C Controller #5
22c6 Atom/Celeron/Pentium Processor x5-E8000/J3xxx/N3xxx
Series LPIO2 I2C Controller #6
22c7 Atom/Celeron/Pentium Processor x5-E8000/J3xxx/N3xxx Series LPIO2 I2C Controller #7
22c8 Atom/Celeron/Pentium Processor x5-E8000/J3xxx/N3xxx Series PCI Express Port #1
22ca Atom/Celeron/Pentium Processor x5-E8000/J3xxx/N3xxx Series PCI Express Port #2
22cc Atom/Celeron/Pentium Processor x5-E8000/J3xxx/N3xxx Series PCI Express Port #3
22ce Atom/Celeron/Pentium Processor x5-E8000/J3xxx/N3xxx Series PCI Express Port #4
22dc Atom/Celeron/Pentium Processor x5-E8000/J3xxx/N3xxx Series Power Management Controller
2310 DH89xxCC LPC Controller
2323 DH89xxCC 4 Port SATA AHCI Controller
2330 DH89xxCC SMBus Controller
2331 DH89xxCC Chap Counter
2332 DH89xxCC Thermal Subsystem
2334 DH89xxCC USB2 Enhanced Host Controller #1
2335 DH89xxCC USB2 Enhanced Host Controller #1
2342 DH89xxCC PCI Express Root Port #1
2343 DH89xxCC PCI Express Root Port #1
2344 DH89xxCC PCI Express Root Port #2
2345 DH89xxCC PCI Express Root
Port #2
2346 DH89xxCC PCI Express Root Port #3
2347 DH89xxCC PCI Express Root Port #3
2348 DH89xxCC PCI Express Root Port #4
2349 DH89xxCC PCI Express Root Port #4
2360 DH89xxCC Watchdog Timer
2364 DH89xxCC MEI 0
2365 DH89xxCC MEI 1
2390 DH895XCC Series LPC Controller
23a1 DH895XCC Series 2-Port SATA Controller [IDE Mode]
23a3 DH895XCC Series 4-Port SATA Controller [AHCI Mode]
23a6 DH895XCC Series 2-Port SATA Controller [IDE Mode]
23b0 DH895XCC Series SMBus Controller
23b1 DH895XCC Series CHAP Counter
23b2 DH895XCC Series Thermal Management Controller
23b4 DH895XCC Series USB2 Enhanced Host Controller #1
23b5 DH895XCC Series USB2 Enhanced Host Controller #1
23c2 DH895XCC Series PCI Express Root Port #1
23c3 DH895XCC Series PCI Express Root Port #1
23c4 DH895XCC Series PCI Express Root Port #2
23c5 DH895XCC Series PCI Express Root Port #2
23c6 CDH895XCC Series PCI Express Root Port #3
23c7 DH895XCC Series PCI Express Root Port #3
23c8 DH895XCC
Series PCI Express Root Port #4
23c9 DH895XCC Series PCI Express Root Port #4
23e0 DH895XCC Series Watchdog Timer

23e4 DH895XCC Series MEI Controller #1
23e5 DH895XCC Series MEI Controller #2
2410 82801AA ISA Bridge (LPC)
2411 82801AA IDE Controller
2412 82801AA USB Controller
2413 82801AA SMBus Controller
2415 82801AA AC'97 Audio Controller
1028 0095 Precision Workstation 220 Integrated Digital Audio
1028 00b4 OptiPlex GX110
110a 0051 Activy 2xx
11d4 0040 SoundMAX Integrated Digital Audio
11d4 0048 SoundMAX Integrated Digital Audio
11d4 5340 SoundMAX Integrated Digital Audio
1734 1025 Activy 3xx
1af4 1100 QEMU Virtual Machine
2416 82801AA AC'97 Modem Controller
2418 82801AA PCI Bridge
2420 82801AB ISA Bridge (LPC)
2421 82801AB IDE Controller
2422 82801AB USB Controller
2423 82801AB SMBus Controller
2425 82801AB AC'97 Audio Controller
11d4 0040 SoundMAX Integrated Digital Audio
11d4 0048 SoundMAX Integrated Digital Audio
2426
82801AB AC'97 Modem Controller
2428 82801AB PCI Bridge
2440 82801BA ISA Bridge (LPC)
8086 5744 S845WD1-E
2442 82801BA/BAM UHCI USB 1.1 Controller #1
1014 01c6 Netvista A40/A40p
1025 1016 Travelmate 612 TX
1028 00c7 Dimension 8100
1028 00d8 Precision 530
1028 010e Optiplex GX240
103c 126f e-pc 40
1043 8027 TUSL2-C Mainboard
104d 80df Vaio PCG-FX403
147b 0505 BL7 motherboard
147b 0507 TH7II-RAID
8086 4532 Desktop Board D815EEA2/D815EFV
8086 4557 D815EGEW Mainboard
8086 5744 S845WD1-E mainboard
2443 82801BA/BAM SMBus Controller
1014 01c6 Netvista A40/A40p
1025 1016 Travelmate 612 TX
1028 00c7 Dimension 8100
1028 00d8 Precision 530

1028 010e Optiplex GX240
103c 126f e-pc 40
1043 8027 TUSL2-C Mainboard
104d 80df Vaio PCG-FX403
147b 0505 BL7 motherboard
147b 0507 TH7II-RAID
15d9 3280 Supermicro P4SBE Mainboard
8086 4532 Desktop Board D815EEA2/D815EFV
8086 4557 D815EGEW Mainboard
8086 5744 S845WD1-E
mainboard
2444 82801BA/BAM UHCI USB 1.1 Controller #2
1025 1016 Travelmate 612 TX
1028 00c7 Dimension 8100
1028 00d8 Precision 530
1028 010e Optiplex GX240
103c 126f e-pc 40
1043 8027 TUSL2-C Mainboard
104d 80df Vaio PCG-FX403
147b 0505 BL7 motherboard
147b 0507 TH7II-RAID
8086 4532 Desktop Board D815EEA2/D815EFV
8086 5744 S845WD1-E mainboard
2445 82801BA/BAM AC'97 Audio Controller
0e11 000b Compaq Deskpro EN Audio
0e11 0088 Evo D500
1014 01c6 Netvista A40/A40p
1025 1016 Travelmate 612 TX
1028 00d8 Precision 530
103c 126f e-pc 40
104d 80df Vaio PCG-FX403
1462 3370 STAC9721 AC
147b 0505 BL7 motherboard
147b 0507 TH7II-RAID
8086 4557 D815EGEW Mainboard
8086 4656 Desktop Board D815EFV
2446 82801BA/BAM AC'97 Modem Controller
1025 1016 Travelmate 612 TX
104d 80df Vaio PCG-FX403
2448 82801 Mobile PCI Bridge
1028 040a Latitude E6410
1028 040b Latitude E6510
103c 0934 Compaq nw8240 Mobile Workstation
103c
0944 Compaq nc6220 Notebook PC
103c 099c NX6110/NC6120
103c 309f Compaq nx9420 Notebook
103c 30a3 Compaq nw8440

103c 30c1 Compaq 6910p
1043 1017 X58LE
104d 902d VAIO VGN-NR120E
105b 0d7c D270S/D250S Motherboard
1071 8209 Medion MIM 2240 Notebook PC [MD98100]
144d c00c P30 notebook
144d c06a R730 Laptop
144d c072 Notebook N150P
1458 5000 GA-D525TUD
1734 1055 Amilo M1420
17aa 2013 ThinkPad R60e
17aa 20ae ThinkPad T61/R61
17c0 10d2 Medion Akoya E7214 Notebook PC [MD98410]
17c0 4083 Medion WIM 2210 Notebook PC [MD96850]
8086 544b Desktop Board D425KT
e4bf cc47 CCG-RUMBA
2449 82801BA/BAM/CA/CAM Ethernet Controller
0e11 0012 EtherExpress PRO/100 VM
0e11 0091 EtherExpress PRO/100 VE
1014 01ce EtherExpress PRO/100 VE
1014 01dc EtherExpress PRO/100 VE
1014 01eb EtherExpress PRO/100 VE
1014 01ec EtherExpress PRO/100 VE
1014 0202 EtherExpress PRO/100 VE
1014 0205 EtherExpress PRO/100 VE
1014 0217 EtherExpress
PRO/100 VE
1014 0234 EtherExpress PRO/100 VE
1014 023d EtherExpress PRO/100 VE
1014 0244 EtherExpress PRO/100 VE
1014 0245 EtherExpress PRO/100 VE
1014 0265 PRO/100 VE Desktop Connection
1014 0267 PRO/100 VE Desktop Connection
1014 026a PRO/100 VE Desktop Connection
109f 315d EtherExpress PRO/100 VE
109f 3181 EtherExpress PRO/100 VE
1179 ff01 PRO/100 VE Network Connection
1186 7801 EtherExpress PRO/100 VE
144d 2602 HomePNA 1M CNR
1af4 1100 QEMU Virtual Machine
8086 3010 EtherExpress PRO/100 VE
8086 3011 EtherExpress PRO/100 VM
8086 3012 82562EH based Phoneline
8086 3013 EtherExpress PRO/100 VE
8086 3014 EtherExpress PRO/100 VM
8086 3015 82562EH based Phoneline
8086 3016 EtherExpress PRO/100 P Mobile Combo
8086 3017 EtherExpress PRO/100 P Mobile

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	8086 3018  EtherExpress PRO/100
	244a  82801BAM IDE U100 Controller
	1025 1016  Travelmate 612TX
	104d 80df  Vaio PCG-FX403
	244b  82801BA IDE U100 Controller
	1014 01c6
	Netvista A40/A40p
	1028 00c7  Dimension 8100
	1028 00d8  Precision 530
	1028 010e  Optiplex GX240
	103c 126f  e-pc 40
	1043 8027  TUSL2-C Mainboard
	147b 0505  BL7 motherboard
	147b 0507  TH7II-RAID
	15d9 3280  Supermicro P4SBE Mainboard
	8086 4532  Desktop Board D815EEA2/D815EFV
	8086 4557  D815EGEW Mainboard
	8086 5744  S845WD1-E mainboard
	244c  82801BAM ISA Bridge (LPC)
	244e  82801 PCI Bridge
	1014 0267  NetVista A30p
	1028 020d  Inspiron 530
	1028 0211  Optiplex 755
	1028 02da  OptiPlex 980
	1028 04f7  PowerEdge R320 server
	103c 2a3b  Pavilion A1512X
	103c 2a6f  Asus IPIBL-LB Motherboard
	103c 31fe  ProLiant DL140 G3
	103c 330b  ProLiant ML150 G6 Server
	# same ID possibly also on other ASUS boards
	1043 8277  P5K PRO Motherboard
	1043 844d  P8 series motherboard
	1043 8534  ASUS B85-PLUS
	1458 5000  Motherboard
	1462 7345  MS-7345 Motherboard: Intel 82801I/IR [ICH9/ICH9R]
	1462 7418  Wind PC MS-7418
	15d9 060d  C7SIM-Q Motherboard
	15d9 9680  X7DBN
	Motherboard
	1775 11cc  CC11/CL11
	8086 7270  Server Board S1200BTS
	2450  82801E ISA Bridge (LPC)
	2452  82801E USB Controller
	2453  82801E SMBus Controller
	2459  82801E Ethernet Controller 0
	245b  82801E IDE U100 Controller
	245d  82801E Ethernet Controller 1
	245e  82801E PCI Bridge
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2480 82801CA LPC Interface Controller
2482 82801CA/CAM USB Controller #1
 0e11 0030 Evo N600c
 1014 0220 ThinkPad A/T/X Series
 104d 80e7 VAIO PCG-GR214EP/GR214MP/GR215MP/GR314MP/GR315MP
 15d9 3480 P4DP6
 8086 1958 vpr Matrix 170B4
 8086 3424 SE7501HG2 Mainboard
 8086 4541 Latitude C640
2483 82801CA/CAM SMBus Controller
 1014 0220 ThinkPad A/T/X Series
 104d 80e7 VAIO PCG-GR214EP/GR214MP/GR215MP/GR314MP/GR315MP
 15d9 3480 P4DP6
 8086 1958 vpr Matrix 170B4
2484 82801CA/CAM USB Controller #2
 0e11 0030 Evo N600c
 1014 0220 ThinkPad A/T/X Series
 104d 80e7 VAIO PCG-GR214EP/GR214MP/GR215MP/GR314MP/GR315MP
 15d9 3480 P4DP6
 8086 1958 vpr Matrix 170B4
2485 82801CA/CAM
AC'97 Audio Controller
 1013 5959 Crystal WMD Audio Codec
 1014 0222 ThinkPad A30/A30p/T23
 1014 0508 ThinkPad T30
 1014 051c ThinkPad A/T/X Series
 1043 1583 L3C (SPDIF)
 1043 1623 L2B (no SPDIF)
 1043 1643 L3F
 104d 80e7 VAIO PCG-GR214EP/GR214MP/GR215MP/GR314MP/GR315MP
 144d c006 vpr Matrix 170B4
2486 82801CA/CAM AC'97 Modem Controller
 1014 0223 ThinkPad A/T/X Series
 1014 0503 ThinkPad R31
 1014 051a ThinkPad A/T/X Series
 101f 1025 620 Series
 1043 1496 PCtel HSP56 MR
 104d 80e7 VAIO PCG-GR214EP/GR214MP/GR215MP/GR314MP/GR315MP
 134d 4c21 Dell Inspiron 2100 internal modem
 144d 2115 vpr Matrix 170B4 internal modem
 14f1 5421 MD56ORD V.92 MDC Modem
2487 82801CA/CAM USB Controller #3
 0e11 0030 Evo N600c
 1014 0220 ThinkPad A/T/X Series
 104d 80e7 VAIO PCG-GR214EP/GR214MP/GR215MP/GR314MP/GR315MP
 15d9 3480 P4DP6
 8086 1958 vpr Matrix 170B4
248a 82801CAM IDE U100 Controller

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 0e11 0030  Evo N600c
 1014 0220  ThinkPad A/T/X Series
 104d
80e7  VAIO PCG-GR214EP/GR214MP/GR215MP/GR314MP/GR315MP
 8086 1958  vpr Matrix 170B4
 8086 4541  Latitude C640
248b  82801CA Ultra ATA Storage Controller
 15d9 3480  P4DP6
248c  82801CAM ISA Bridge (LPC)
24c0  82801DB/DBL (ICH4/ICH4-L) LPC Interface Bridge
 1014 0267  NetVista A30p
 1462 5800  845PE Max (MS-6580)
24c1  82801DBL (ICH4-L) IDE Controller
24c2  82801DB/DBL/DBM (ICH4/ICH4-L/ICH4-M) USB UHCI Controller #1
 1014 0267  NetVista A30p
 1014 052d  ThinkPad
 1025 005a  TravelMate 290
 1025 0064  Extensa 3000 series laptop: Intel 82801DBM (ICH4-M)
 1028 0126  Optiplex GX260
 1028 0160  Dimension 2400
 1028 0163  Latitude D505
 1028 018d  Inspiron 700m/710m
 1028 0196  Inspiron 5160
 103c 088c  NC8000 laptop
 103c 0890  NC6000 laptop
 103c 08b0  tc1100 tablet
 1043 8089  P4B533
 1071 8160  MIM2000
 114a 0582  PC8 onboard USB 1.x
 144d c005  X10 Laptop
 144d c00c  P30/P35 notebook
 1462 5800  845PE Max (MS-6580)
 1509 2990  Averatec 5110H laptop
 1734
1004  D1451 Mainboard (SCENIC N300, i845GV)
 1734 1055  Amilo M1420
 4c53 1090  Cx9 / Vx9 mainboard
 8086 24c2  Latitude X300
 8086 4541  Latitude D400/D500
 e4bf 0cc9  CC9-SAMBA
 e4bf 0cd2  CD2-BEBOP
24c3  82801DB/DBL/DBM (ICH4/ICH4-L/ICH4-M) SMBus Controller
 1014 0267  NetVista A30p
 1014 052d  ThinkPad
 1025 005a  TravelMate 290
 1025 0064  Extensa 3000 series laptop: Intel 82801DBM (ICH4-M)
 1028 0126  Optiplex GX260
 1028 014f  Latitude X300
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1028 0160 Dimension 2400
1028 018d Inspiron 700m/710m
103c 088c NC8000 laptop
103c 0890 NC6000 laptop
103c 08b0 tc1100 tablet
1071 8160 MIM2000
114a 0582 PC8 onboard SMbus
144d c005 X10 Laptop
144d c00c P30/P35 notebook
1458 24c2 GA-8PE667 Ultra
1462 5800 845PE Max (MS-6580)
1734 1004 D1451 Mainboard (SCENIC N300, i845GV)
1734 1055 Amilo M1420
4c53 1090 Cx9 / Vx9 mainboard
e4bf 0cc9 CC9-SAMBA
e4bf 0cd2 CD2-BEBOP
24c4 82801DB/DBL/DBM (ICH4/ICH4-L/ICH4-M) USB UHCI Controller
#2
1014 0267 NetVista A30p
1014 052d ThinkPad
1025 005a TravelMate 290
1025 0064 Extensa 3000 series laptop: Intel 82801DBM (ICH4-M)
1028 0126 Optiplex GX260
1028 0160 Dimension 2400
1028 0163 Latitude D505
1028 018d Inspiron 700m/710m
1028 0196 Inspiron 5160
103c 088c NC8000 laptop
103c 0890 NC6000 laptop
103c 08b0 tc1100 tablet
1043 8089 P4B533
1071 8160 MIM2000
144d c00c P30/P35 notebook
1462 5800 845PE Max (MS-6580)
1509 2990 Averatec 5110H
1734 1004 D1451 Mainboard (SCENIC N300, i845GV)
4c53 1090 Cx9 / Vx9 mainboard
8086 24c2 Latitude X300
8086 4541 Latitude D400/D500
e4bf 0cc9 CC9-SAMBA
e4bf 0cd2 CD2-BEBOP
24c5 82801DB/DBL/DBM (ICH4/ICH4-L/ICH4-M) AC'97 Audio Controller
0e11 00b8 Analog Devices Inc. codec [SoundMAX]
1014 0267 NetVista A30p
1014 0537 ThinkPad T4x Series
1014 055f Thinkpad R50e model 1634
1025 005a TravelMate 290
1025 0064 Extensa 3000 series laptop: Intel 82801DBM (ICH4-M)

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  1028
 0139  Latitude D400
  1028 014f  Latitude X300
  1028 0152  Latitude D500
  1028 0160  Dimension 2400
  1028 0163  Latitude D505
  1028 018d  Inspiron 700m/710m [SigmaTel STAC9750,51]
  1028 0196  Inspiron 5160
  103c 088c  NC8000 laptop
  103c 0890  NC6000 laptop
  103c 08b0  tc1100 tablet
  1043 1713  M2400N/M6800N laptop
  1043 80b0  P4B533
  1071 8160  MIM2000
  1179 0201  Toshiba Tecra M1
  144d c005  X10 Laptop
  144d c00c  P30/P35 notebook
  1458 a002  GA-8PE667 Ultra
  1462 5800  845PE Max (MS-6580)
  1734 1005  D1451 (SCENIC N300, i845GV) Sigmatel STAC9750T
  1734 1055  Amilo M1420
 24c6  82801DB/DBL/DBM (ICH4/ICH4-L/ICH4-M) AC'97 Modem Controller
  1014 0524  ThinkPad T4x Series
  1014 0525  ThinkPad
  1014 0559  ThinkPad R50e
  1025 003c  Aspire 2001WLCi (Compal CL50 motherboard) implementation
  1025 005a  TravelMate 290
  1025 0064  Extensa 3000 series laptop: Intel 82801DBM (ICH4-M)
  1028 0196  Inspiron 5160
  103c 088c  NC8000 laptop
  103c 0890  NC6000 laptop
  103c
 08b0  tc1100 tablet
  1043 1716  M2400N laptop
  1043 1826  M6800N
  1071 8160  MIM2000
  134d 4c21  Latitude D500
  144d 2115  X10 Laptop
  144d c00c  P30/P35 notebook
# Conexant HSF Softmodem (CXT22)
  14f1 5422  D480 MDC V.9x Modem
 24c7  82801DB/DBL/DBM (ICH4/ICH4-L/ICH4-M) USB UHCI Controller #3
  1014 0267  NetVista A30p
  1014 052d  ThinkPad
  1025 005a  TravelMate 290
  1025 0064  Extensa 3000 series laptop: Intel 82801DBM (ICH4-M)
  1028 0126  Optiplex GX260
  1028 0160  Dimension 2400
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1028 0163 Latitude D505
1028 018d Inspiron 700m/710m
1028 0196 Inspiron 5160
103c 088c NC8000 laptop
103c 0890 NC6000 laptop
103c 08b0 tc1100 tablet
1043 8089 P4B533
1071 8160 MIM2000
144d c00c P30/P35 notebook
1462 5800 845PE Max (MS-6580)
1509 2990 Averatec 5110H
1734 1004 D1451 Mainboard (SCENIC N300, i845GV)
4c53 1090 Cx9 / Vx9 mainboard
8086 24c2 Latitude X300
8086 4541 Latitude D400/D500
e4bf 0cc9 CC9-SAMBA
e4bf 0cd2 CD2-BEBOP
24ca 82801DBM
(ICH4-M) IDE Controller
1014 052d ThinkPad
1025 005a TravelMate 290
1025 0064 Extensa 3000 series laptop: Intel 82801DBM (ICH4-M)
1028 014f Latitude X300
1028 0163 Latitude D505
1028 018d Inspiron 700m/710m
1028 0196 Inspiron 5160
103c 088c NC8000 laptop
103c 0890 NC6000 laptop
103c 08b0 tc1100 tablet
1071 8160 MIM2000
144d c005 X10 Laptop
144d c00c P30/P35 notebook
1734 1055 Amilo M1420
8086 4541 Latitude D400/D500
24cb 82801DB (ICH4) IDE Controller
1014 0267 NetVista A30p
1028 0126 Optiplex GX260
1028 0160 Dimension 2400
1043 8089 P4B533
114a 0582 PC8 onboard IDE
1458 24c2 GA-8PE667 Ultra
1462 5800 845PE Max (MS-6580)
1734 1004 D1451 Mainboard (SCENIC N300, i845GV)
4c53 1090 Cx9 / Vx9 mainboard
e4bf 0cc9 CC9-SAMBA
e4bf 0cd2 CD2-BEBOP
24cc 82801DBM (ICH4-M) LPC Interface Bridge
144d c00c P30 notebook

1734 1055 Amilo M1420
24cd 82801DB/DBM (ICH4/ICH4-M) USB2 EHCI Controller
1014 0267 NetVista
A30p
1014 052e ThinkPad
1025 005a TravelMate 290
1025 0064 Extensa 3000 series laptop: Intel 82801DBM (ICH4-M)
1028 011d Latitude D600
1028 0126 Optiplex GX260
1028 0139 Latitude D400
1028 0152 Latitude D500
1028 0160 Dimension 2400
1028 0163 Latitude D505
1028 018d Inspiron 700m/710m
1028 0196 Inspiron 5160
103c 088c NC8000 laptop
103c 0890 NC6000 laptop
103c 08b0 tc1100 tablet
1043 8089 P4B533
1071 8160 MIM2000
114a 0582 PC8 onboard USB 2.0
1179 ff00 Satellite 2430
144d c005 X10 Laptop
144d c00c P30/P35 notebook
1462 3981 845PE Max (MS-6580)
1509 1968 Averatec 5110H
1734 1004 D1451 Mainboard (SCENIC N300, i845GV)
1734 1055 Amilo M1420
1af4 1100 QEMU Virtual Machine
4c53 1090 Cx9 / Vx9 mainboard
8086 24c2 Latitude X300
e4bf 0cc9 CC9-SAMBA
e4bf 0cd2 CD2-BEBOP
24d0 82801EB/ER (ICH5/ICH5R) LPC Interface Bridge
24d1 82801EB (ICH5) SATA Controller
1028 0168 Precision Workstation 670 Mainboard
1028
0169 Precision 470
1028 019a PowerEdge SC1425
103c 12bc d530 CMT (DG746A)
103c 3208 ProLiant DL140 G2
1043 80a6 P4P800 series motherboard
1458 24d1 GA-8IPE1000 Pro2 motherboard (865PE)
1462 7280 865PE Neo2 (MS-6728)
1462 7650 Hetis 865GV-E (MS-7065)
1565 5200 P4TSV Motherboard (865G)
15d9 4580 P4SCE Mainboard
8086 3427 S875WP1-E mainboard

8086 4246 Desktop Board D865GBF
8086 4c43 Desktop Board D865GLC
8086 524c D865PERL mainboard
24d2 82801EB/ER (ICH5/ICH5R) USB UHCI Controller #1
1014 0287 ThinkCentre S50
1014 02dd eServer xSeries server mainboard
1014 02ed eServer xSeries server mainboard
1028 0168 Precision Workstation 670 Mainboard
1028 0169 Precision 470
1028 016c PowerEdge 1850 onboard UHCI
1028 016d PowerEdge 2850 onboard UHCI
1028 0170 PowerEdge 6850 onboard UHCI
1028 0183 PowerEdge 1800
1028 019a PowerEdge SC1425
103c 006a NX9500
103c 12bc d530 CMT (DG746A)
103c 3208 ProLiant DL140 G2
1043
80a6 P4P800/P5P800 series motherboard
1458 24d2 GA-8IPE1000/8KNXP motherboard
1462 7280 865PE Neo2 (MS-6728)
1565 3101 P4TSV Motherboard (865G)
15d9 4580 P4SCE Mainboard
1734 101c PRIMERGY RX/TX series onboard UHCI
8086 3427 S875WP1-E mainboard
8086 4246 Desktop Board D865GBF
8086 4c43 Desktop Board D865GLC
8086 524c D865PERL mainboard
24d3 82801EB/ER (ICH5/ICH5R) SMBus Controller
1014 0287 ThinkCentre S50
1014 02dd eServer xSeries server mainboard
1014 02ed eServer xSeries server mainboard
1028 0156 Precision 360
1028 0168 Precision Workstation 670 Mainboard
1028 0169 Precision 470
103c 12bc d330 uT
103c 3208 ProLiant DL140 G2
1043 80a6 P4P800/P5P800 series motherboard
1458 24d2 GA-8IPE1000 Pro2 motherboard (865PE)
1462 7280 865PE Neo2 (MS-6728)
1462 7650 Hetis 865GV-E (MS-7065)
1565 3101 P4TSV Motherboard (865G)
15d9 4580 P4SCE Mainboard
1734 101c PRIMERGY RX/TX S2 series SMBus
8086 3427 S875WP1-E mainboard
8086
4246 Desktop Board D865GBF
8086 4c43 Desktop Board D865GLC

8086 524c D865PERL mainboard
24d4 82801EB/ER (ICH5/ICH5R) USB UHCI Controller #2
1014 0287 ThinkCentre S50
1014 02dd eServer xSeries server mainboard
1014 02ed eServer xSeries server mainboard
1028 0168 Precision Workstation 670 Mainboard
1028 0169 Precision 470
1028 016c PowerEdge 1850 onboard UHCI
1028 016d PowerEdge 2850 onboard UHCI
1028 0170 PowerEdge 6850 onboard UHCI
1028 0183 PowerEdge 1800
1028 019a PowerEdge SC1425
103c 006a NX9500
103c 12bc d530 CMT (DG746A)
103c 3208 ProLiant DL140 G2
1043 80a6 P4P800/P5P800 series motherboard
1458 24d2 GA-8IPE1000 Pro2 motherboard (865PE)
1462 7280 865PE Neo2 (MS-6728)
1462 7650 Hetis 865GV-E (MS-7065)
1565 3101 P4TSV Motherboard (865G)
15d9 4580 P4SCE Mainboard
1734 101c PRIMERGY RX/TX S2 series onboard UHCI
8086 3427 S875WP1-E mainboard
8086 4246 Desktop Board D865GBF
8086 4c43 Desktop Board
D865GLC
8086 524c D865PERL mainboard
24d5 82801EB/ER (ICH5/ICH5R) AC'97 Audio Controller
100a 147b Abit IS7-E motherboard
1014 0287 ThinkCentre S50
1028 0168 Precision Workstation 670 Mainboard
1028 0169 Precision 470
103c 006a NX9500
103c 12bc d330 uT
1043 80f3 P4P800 series motherboard
1043 810f P5P800-MX Mainboard
1458 a002 GA-8IPE1000/8KNXP motherboard
1462 0080 865PE Neo2-V (MS-6788) Mainboard
1462 7280 865PE Neo2 (MS-6728)
1462 7650 Hetis 865GV-E (MS-7065)
8086 a000 D865PERL mainboard
8086 e000 D865PERL mainboard
8086 e001 Desktop Board D865GBF
8086 e002 SoundMax Integrated Digital Audio
24d6 82801EB/ER (ICH5/ICH5R) AC'97 Modem Controller
103c 006a NX9500
24d7 82801EB/ER (ICH5/ICH5R) USB UHCI Controller #3
1014 0287 ThinkCentre S50

1014 02ed xSeries server mainboard
1028 0168 Precision Workstation 670 Mainboard
1028 0169 Precision 470
1028 016c PowerEdge 1850 onboard UHCI
1028 016d PowerEdge 2850 onboard
UHCI
1028 0170 PowerEdge 6850 onboard UHCI
1028 0183 PowerEdge 1800
103c 006a NX9500
103c 12bc d530 CMT (DG746A)
1043 80a6 P4P800/P5P800 series motherboard
1458 24d2 GA-8IPE1000 Pro2 motherboard (865PE)
1462 7280 865PE Neo2 (MS-6728)
1462 7650 Hetis 865GV-E (MS-7065)
1565 3101 P4TSV Motherboard (865G)
15d9 4580 P4SCE Mainboard
1734 101c PRIMERGY RX/TX S2 series onboard UHCI
8086 3427 S875WP1-E mainboard
8086 4246 Desktop Board D865GBF
8086 4c43 Desktop Board D865GLC
8086 524c D865PERL mainboard
24db 82801EB/ER (ICH5/ICH5R) IDE Controller
1014 0287 ThinkCentre S50
1014 02dd eServer xSeries server mainboard
1014 02ed eServer xSeries server mainboard
1028 0168 Precision Workstation 670 Mainboard
1028 0169 Precision 470
1028 016c PowerEdge 1850 IDE Controller
1028 016d PowerEdge 2850 IDE Controller
1028 0170 PowerEdge 6850 IDE Controller
1028 019a PowerEdge SC1425
103c 006a NX9500
103c 12bc d530 CMT (DG746A)
1043
80a6 P4P800/P5P800 series motherboard
1458 24d2 GA-8IPE1000 Pro2 motherboard (865PE)
1462 7280 865PE Neo2 (MS-6728)
1462 7580 MSI 875P
1462 7650 Hetis 865GV-E (MS-7065)
1565 3101 P4TSV Motherboard (865G)
15d9 4580 P4SCE Mainboard
1734 101c PRIMERGY RX/TX S2 series onboard IDE
8086 24db P4C800 Mainboard
8086 3427 S875WP1-E mainboard
8086 4246 Desktop Board D865GBF
8086 4c43 Desktop Board D865GLC
8086 524c D865PERL mainboard
24dc 82801EB (ICH5) LPC Interface Bridge

24dd 82801EB/ER (ICH5/ICH5R) USB2 EHCI Controller
 1014 0287 ThinkCentre S50
 1014 02dd eServer xSeries server mainboard
 1014 02ed eServer xSeries server mainboard
 1028 0168 Precision Workstation 670 Mainboard
 1028 0169 Precision 470
 1028 016c PowerEdge 1850 onboard EHCI
 1028 016d PowerEdge 2850 onboard EHCI
 1028 0170 PowerEdge 6850 onboard EHCI
 1028 0183 PowerEdge 1800
 1028 019a PowerEdge SC1425
 103c 006a NX9500
 103c 12bc d530 CMT (DG746A)
 103c
3208 ProLiant DL140 G2
 1043 80a6 P4P800/P5P800 series motherboard
 1458 5006 GA-8IPE1000 Pro2 motherboard (865PE)
 1462 7280 865PE Neo2 (MS-6728)
 1462 7650 Hetis 865GV-E (MS-7065)
 8086 3427 S875WP1-E mainboard
 8086 4246 Desktop Board D865GBF
 8086 4c43 Desktop Board D865GLC
 8086 524c D865PERL mainboard
24de 82801EB/ER (ICH5/ICH5R) USB UHCI Controller #4
 1014 0287 ThinkCentre S50
 1014 02ed xSeries server mainboard
 1028 0168 Precision Workstation 670 Mainboard
 1028 0169 Precision 470
 1043 80a6 P4P800/P5P800 series motherboard
 1458 24d2 GA-8IPE1000 Pro2 motherboard (865PE)
 1462 7280 865PE Neo2 (MS-6728)
 1462 7650 Hetis 865GV-E (MS-7065)
 1565 3101 P4TSV Motherboard (865G)
 15d9 4580 P4SCE Mainboard
 1734 101c PRIMERGY RX/TX S2 series onboard UHCI
 8086 3427 S875WP1-E mainboard
 8086 4246 Desktop Board D865GBF
 8086 4c43 Desktop Board D865GLC
 8086 524c D865PERL mainboard
24df 82801ER (ICH5R) SATA Controller
 1028 0168 Precision
Workstation 670 Mainboard
24f0 Omni-Path HFI Silicon 100 Series [discrete]
 10a9 802e Omni-path HFI 100 Series, 1-port A-board
 10a9 802f Omni-path HFI 100 Series, 2-port A-board
 10a9 8030 Omni-path HFI 100 Series, 1-port B-board
 10a9 8031 Omni-path HFI 100 Series, 2-port B-board
 1590 00e7 100Gb 1-port OP101 QSFP28 x8 PCIe Gen3 with Intel Omni-Path Adapter

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	1590 00e8  100Gb 1-port OP101 QSFP28 x16 PCIe Gen3 with Intel Omni-Path Adapter
	1590 021c  Apollo 100Gb 1-port Intel Omni-Path Architecture 860z Mezzanine FIO Adapter
	15d9 0934  Omni-Path HFI Adapter 100 Series, 1 Port, PCIe x16, SIOM Module
	15d9 099b  Omni-path HFI Mezz AOC, 1 Port, PCIe x16.
	1cb8 0001  Omni-Path HFI Adapter 100 Series, 1 Port, PCIe x16, TC4600 QSFP28
	1cb8 0002  Omni-Path HFI Adapter 100 Series, 1 Port, PCIe x16, TC6600 Fixed Port
	1cb8 0003  Omni-Path HFI Adapter 100 Series, 2 Port, 2 PCIe x16, Earth Simulation QSFP28
	1cb8 0004  Omni-Path HFI Adapter 100 Series, 1 Port, PCIe x16,
	TC4600E QSFP28
	8086 2628  Omni-Path HFI Adapter 100 Series, 1 Port, PCIe x16
	8086 2629  Omni-Path HFI Adapter 100 Series, 1 Port, PCIe x8
	8086 262a  Omni-Path HFI Adapter 100 Series, 2 Ports, Split PCIe x16
	8086 262d  Omni-Path HFI Adapter 100 Series, 1 Port, PCIe x16, IO Module AHWKPTP100HF
	24f1  Omni-Path HFI Silicon 100 Series [integrated]
	24f3  Wireless 8260
	# Snow Field Peak AC
	8086 0010  Dual Band Wireless-AC 8260
	8086 1010  Dual Band Wireless-AC 8260
	24f4  Wireless 8260
	# Snow Field Peak AC
	8086 0030  Dual Band Wireless-AC 8260
	24fb  Dual Band Wireless-AC 3168NGW [Stone Peak]
	24fd  Wireless 8265 / 8275
	# Windstorm Peak
	8086 0010  Dual Band Wireless-AC 8265
	8086 0150  Dual Band Wireless-AC 8265
	8086 1010  Dual Band Wireless-AC 8265
	8086 1130  Dual Band Wireless-AC 8265
	2500  82820 820 (Camino) Chipset Host Bridge (MCH)
	1028 0095  Precision Workstation 220 Chipset
	1043 801c  P3C-2000 system chipset
	2501  82820 820 (Camino) Chipset Host Bridge (MCH)
	1043
	801c  P3C-2000 system chipset
	250b  82820 820 (Camino) Chipset Host Bridge
	250f  82820 820 (Camino) Chipset AGP Bridge
	2520  82805AA MTH Memory Translator Hub
	2521  82804AA MRH-S Memory Repeater Hub for SDRAM
	2526  Wireless-AC 9260
	2530  82850 850 (Tehama) Chipset Host Bridge (MCH)
	1028 00c7  Dimension 8100
	147b 0507  TH7II-RAID
	2531  82860 860 (Wombat) Chipset Host Bridge (MCH)
	1028 00d8  Precision 530
	2532  82850 850 (Tehama) Chipset AGP Bridge
	2533  82860 860 (Wombat) Chipset AGP Bridge
	2534  82860 860 (Wombat) Chipset PCI Bridge
	2540  E7500 Memory Controller Hub
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15d9 3480 P4DP6
2541 E7500/E7501 Host RASUM Controller
15d9 3480 P4DP6
4c53 1090 Cx9 / Vx9 mainboard
8086 3424 SE7501HG2 Mainboard
2543 E7500/E7501 Hub Interface B PCI-to-PCI Bridge
2544 E7500/E7501 Hub Interface B RASUM Controller
4c53 1090 Cx9 / Vx9 mainboard
2545 E7500/E7501 Hub Interface C PCI-to-PCI Bridge
2546 E7500/E7501 Hub Interface C RASUM Controller
2547 E7500/E7501
Hub Interface D PCI-to-PCI Bridge
2548 E7500/E7501 Hub Interface D RASUM Controller
254c E7501 Memory Controller Hub
4c53 1090 Cx9 / Vx9 mainboard
8086 3424 SE7501HG2 Mainboard
2550 E7505 Memory Controller Hub
2551 E7505/E7205 Series RAS Controller
2552 E7505/E7205 PCI-to-AGP Bridge
2553 E7505 Hub Interface B PCI-to-PCI Bridge
2554 E7505 Hub Interface B PCI-to-PCI Bridge RAS Controller
255d E7205 Memory Controller Hub
2560 82845G/GL[Brookdale-G]/GE/PE DRAM Controller/Host-Hub Interface
1028 0126 Optiplex GX260
1458 2560 GA-8PE667 Ultra
1462 5800 845PE Max (MS-6580)
2561 82845G/GL[Brookdale-G]/GE/PE Host-to-AGP Bridge
2562 82845G/GL[Brookdale-G]/GE Chipset Integrated Graphics Device
0e11 00b9 Evo D510 SFF
1014 0267 NetVista A30p
1028 0160 Dimension 2400
1734 1003 D1521 Mainboard (Fujitsu-Siemens)
1734 1004 D1451 Mainboard (SCENIC N300, i845GV)
2570 82865G/PE/P DRAM Controller/Host-Hub Interface
103c 006a NX9500
103c 12bc
d330 uT
1043 80f2 P4P800/P5P800 series motherboard
1458 2570 GA-8IPE1000 Pro2 motherboard (865PE)
2571 82865G/PE/P AGP Bridge
2572 82865G Integrated Graphics Controller
1014 0287 ThinkCentre S50
1028 019d Dimension 3000
103c 12bc D530 sff(dc578av)
1043 80a5 P5P800-MX Mainboard
1462 7650 Hetis 865GV-E (MS-7065)
1734 101b Fujitsu-Siemens Scenic E300 i865GV
8086 4246 Desktop Board D865GBF

8086 4c43 Desktop Board D865GLC
2573 82865G/PE/P PCI to CSA Bridge
2576 82865G/PE/P Processor to I/O Memory Interface
2578 82875P/E7210 Memory Controller Hub
1458 2578 GA-8KNXP motherboard (875P)
1462 7580 MS-6758 (875P Neo)
15d9 4580 P4SCE Motherboard
2579 82875P Processor to AGP Controller
257b 82875P/E7210 Processor to PCI to CSA Bridge
257e 82875P/E7210 Processor to I/O Memory Interface
2580 82915G/P/GV/GL/PL/910GL Memory Controller Hub
1458 2580 GA-8I915ME-G Mainboard
1462 7028 915P/G Neo2
1734 105b Scenic W620
2581 82915G/P/GV/GL/PL/910GL
PCI Express Root Port
2582 82915G/GV/910GL Integrated Graphics Controller
1028 1079 Optiplex GX280
103c 3006 DC7100 SFF(DX878AV)
1043 2582 P5GD1-VW Mainboard
1458 2582 GA-8I915ME-G Mainboard
1734 105b Scenic W620
1849 2582 ASRock P4Dual-915GL
2584 82925X/XE Memory Controller Hub
1028 0177 Dimension 8400
2585 82925X/XE PCI Express Root Port
2588 E7220/E7221 Memory Controller Hub
2589 E7220/E7221 PCI Express Root Port
258a E7221 Integrated Graphics Controller
2590 Mobile 915GM/PM/GMS/910GML Express Processor to DRAM Controller
1014 0575 ThinkPad X41 / Z60t
1028 0182 Latitude C610
103c 0934 Compaq nw8240/nx8220
103c 0944 Compaq nc6220 Notebook PC
103c 099c NX6110/NC6120
104d 81b7 Vaio VGN-S3XP
a304 81b7 Vaio VGN-S3XP
e4bf 0ccd CCD-CALYPSO
e4bf 0cd3 CD3-JIVE
e4bf 58b1 XB1
2591 Mobile 915GM/PM Express PCI Express Root Port
103c 0934 Compaq nw8240 Mobile Workstation
2592 Mobile 915GM/GMS/910GML Express Graphics
Controller
1014 0582 ThinkPad X41
103c 099c NX6110/NC6120
103c 308a NC6220
1043 1881 GMA 900 915GM Integrated Graphics

e4bf 0ccd CCD-CALYPSO
e4bf 0cd3 CD3-JIVE
e4bf 58b1 XB1
25a1 6300ESB LPC Interface Controller
25a2 6300ESB PATA Storage Controller
1734 1073 Primergy Econel 200 D2020 mainboard
1775 10d0 V5D Single Board Computer IDE
1775 1100 CR11/VR11 Single Board Computer
1775 ce90 CE9
4c53 10b0 CL9 mainboard
4c53 10e0 PSL09 PrPMC
25a3 6300ESB SATA Storage Controller
1734 1073 Primergy Econel 200 D2020 mainboard
1775 1100 CR11/VR11 Single Board Computer
1775 ce90 CE9
4c53 10b0 CL9 mainboard
4c53 10d0 Telum ASLP10 Processor AMC
4c53 10e0 PSL09 PrPMC
25a4 6300ESB SMBus Controller
1734 1073 Primergy Econel 200 D2020 mainboard
1775 10d0 V5D Single Board Computer
1775 1100 CR11/VR11 Single Board Computer
1775 ce90 CE9
4c53 10b0 CL9 mainboard
4c53 10d0 Telum ASLP10 Processor AMC
4c53 10e0 PSL09 PrPMC
25a6
6300ESB AC'97 Audio Controller
1775 1100 CR11/VR11 Single Board Computer
1775 ce90 CE9
4c53 10b0 CL9 mainboard
25a7 6300ESB AC'97 Modem Controller
25a9 6300ESB USB Universal Host Controller
1734 1073 Primergy Econel 200 D2020 mainboard
1775 10d0 V5D Single Board Computer USB
1775 1100 CR11/VR11 Single Board Computer
1775 ce90 CE9
4c53 10b0 CL9 mainboard
4c53 10d0 Telum ASLP10 Processor AMC
4c53 10e0 PSL09 PrPMC
25aa 6300ESB USB Universal Host Controller
1734 1073 Primergy Econel 200 D2020 mainboard
1775 1100 CR11/VR11 Single Board Computer
1775 ce90 CE9
4c53 10b0 CL9 mainboard
4c53 10d0 Telum ASLP10 Processor AMC
4c53 10e0 PSL09 PrPMC
25ab 6300ESB Watchdog Timer

1734 1073 Primergy Econel 200 D2020 mainboard
1775 10d0 V5D Single Board Computer
1775 1100 CR11/VR11 Single Board Computer
1775 ce90 CE9
1af4 1100 QEMU Virtual Machine
4c53 10b0 CL9 mainboard
4c53 10d0 Telum ASLP10 Processor AMC
4c53 10e0 PSL09
PrPMC
25ac 6300ESB I/O Advanced Programmable Interrupt Controller
1734 1073 Primergy Econel 200 D2020 mainboard
1775 10d0 V5D Single Board Computer
1775 1100 CR11/VR11 Single Board Computer
1775 ce90 CE9
4c53 10b0 CL9 mainboard
4c53 10d0 Telum ASLP10 Processor AMC
4c53 10e0 PSL09 PrPMC
25ad 6300ESB USB2 Enhanced Host Controller
1734 1073 Primergy Econel 200 D2020 mainboard
1775 10d0 V5D Single Board Computer USB 2.0
1775 1100 CR11/VR11 Single Board Computer
1775 ce90 CE9
4c53 10b0 CL9 mainboard
4c53 10d0 Telum ASLP10 Processor AMC
4c53 10e0 PSL09 PrPMC
25ae 6300ESB 64-bit PCI-X Bridge
25b0 6300ESB SATA RAID Controller
1775 1100 CR11/VR11 Single Board Computer
4c53 10d0 Telum ASLP10 Processor AMC
4c53 10e0 PSL09 PrPMC
25c0 5000X Chipset Memory Controller Hub
25d0 5000Z Chipset Memory Controller Hub
25d4 5000V Chipset Memory Controller Hub
15d9 8680 X7DVL-E-O motherboard
25d8 5000P Chipset Memory Controller Hub
15d9
9680 X7DBN Motherboard
8086 3476 S5000PSLSATA Server Board
25e2 5000 Series Chipset PCI Express x4 Port 2
25e3 5000 Series Chipset PCI Express x4 Port 3
25e4 5000 Series Chipset PCI Express x4 Port 4
25e5 5000 Series Chipset PCI Express x4 Port 5
25e6 5000 Series Chipset PCI Express x4 Port 6
25e7 5000 Series Chipset PCI Express x4 Port 7
25f0 5000 Series Chipset FSB Registers
1028 01bb PowerEdge 1955 FSB Registers
103c 31fd ProLiant DL140 G3
15d9 8680 X7DVL-E-O motherboard

15d9 9680 X7DBN Motherboard
8086 3476 S5000PSLSATA Server Board
25f1 5000 Series Chipset Reserved Registers
103c 31fd ProLiant DL140 G3
15d9 8680 X7DVL-E-O motherboard
15d9 9680 X7DBN Motherboard
8086 3476 S5000PSLSATA Server Board
25f3 5000 Series Chipset Reserved Registers
103c 31fd ProLiant DL140 G3
15d9 8680 X7DVL-E-O motherboard
15d9 9680 X7DBN Motherboard
8086 3476 S5000PSLSATA Server Board
25f5 5000 Series Chipset FBD Registers
103c 31fd ProLiant
DL140 G3
15d9 8680 X7DVL-E-O motherboard
15d9 9680 X7DBN Motherboard
8086 3476 S5000PSLSATA Server Board
25f6 5000 Series Chipset FBD Registers
103c 31fd ProLiant DL140 G3
15d9 8680 X7DVL-E-O motherboard
15d9 9680 X7DBN Motherboard
8086 3476 S5000PSLSATA Server Board
25f7 5000 Series Chipset PCI Express x8 Port 2-3
25f8 5000 Series Chipset PCI Express x8 Port 4-5
25f9 5000 Series Chipset PCI Express x8 Port 6-7
25fa 5000X Chipset PCI Express x16 Port 4-7
2600 E8500/E8501 Hub Interface 1.5
1028 0170 PowerEdge 6850 Hub Interface
2601 E8500/E8501 PCI Express x4 Port D
2602 E8500/E8501 PCI Express x4 Port C0
2603 E8500/E8501 PCI Express x4 Port C1
2604 E8500/E8501 PCI Express x4 Port B0
2605 E8500/E8501 PCI Express x4 Port B1
2606 E8500/E8501 PCI Express x4 Port A0
2607 E8500/E8501 PCI Express x4 Port A1
2608 E8500/E8501 PCI Express x8 Port C
2609 E8500/E8501 PCI Express x8 Port B
260a E8500/E8501 PCI Express x8 Port A
260c E8500/E8501
IMI Registers
2610 E8500/E8501 FSB Registers
2611 E8500/E8501 Address Mapping Registers
2612 E8500/E8501 RAS Registers
2613 E8500/E8501 Reserved Registers
2614 E8500/E8501 Reserved Registers
2615 E8500/E8501 Miscellaneous Registers
2617 E8500/E8501 Reserved Registers

2618 E8500/E8501 Reserved Registers
2619 E8500/E8501 Reserved Registers
261a E8500/E8501 Reserved Registers
261b E8500/E8501 Reserved Registers
261c E8500/E8501 Reserved Registers
261d E8500/E8501 Reserved Registers
261e E8500/E8501 Reserved Registers
2620 E8500/E8501 eXternal Memory Bridge
 1028 0170 PowerEdge 6850 Memory Bridge
2621 E8500/E8501 XMB Miscellaneous Registers
 1028 0170 PowerEdge 6850 XMB Registers
2622 E8500/E8501 XMB Memory Interleaving Registers
 1028 0170 PowerEdge 6850 Memory Interleaving Registers
2623 E8500/E8501 XMB DDR Initialization and Calibration
 1028 0170 PowerEdge 6850 DDR Initialization and Calibration
2624 E8500/E8501 XMB Reserved Registers
 1028
0170 PowerEdge 6850 Reserved Registers
2625 E8500/E8501 XMB Reserved Registers
 1028 0170 PowerEdge 6850 Reserved Registers
2626 E8500/E8501 XMB Reserved Registers
 1028 0170 PowerEdge 6850 Reserved Registers
2627 E8500/E8501 XMB Reserved Registers
 1028 0170 PowerEdge 6850 Reserved Registers
2640 82801FB/FR (ICH6/ICH6R) LPC Interface Bridge
 1462 7028 915P/G Neo2
 1734 105c Scenic W620
 e4bf 0ccd CCD-CALYPSO
 e4bf 0cd3 CD3-JIVE
 e4bf 58b1 XB1
2641 82801FBM (ICH6M) LPC Interface Bridge
 1014 0568 ThinkPad X41
 103c 0934 Compaq nw8240/nx8220
 103c 0944 Compaq nc6220 Notebook PC
 103c 099c NX6110/NC6120
2642 82801FW/FRW (ICH6W/ICH6RW) LPC Interface Bridge
2651 82801FB/FW (ICH6/ICH6W) SATA Controller
 1028 0179 Optiplex GX280
 1043 2601 P5GD1-VW Mainboard
 1734 105c Scenic W620
 8086 4147 D915GAG Motherboard
 e4bf 0ccd CCD-CALYPSO
 e4bf 0cd3 CD3-JIVE
 e4bf 58b1 XB1
2652 82801FR/FRW (ICH6R/ICH6RW) SATA Controller
 1028 0177
 Dimension 8400
 1462 7028 915P/G Neo2

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2653  82801FBM (ICH6M) SATA Controller
 1014 056a  ThinkPad X41
2658  82801FB/FBM/FR/FW/FRW (ICH6 Family) USB UHCI #1
 1014 0565  ThinkPad X41
 1028 0177  Dimension 8400
 1028 0179  Optiplex GX280
 103c 0934  Compaq nw8240/nx8220
 103c 0944  Compaq nc6220 Notebook PC
 103c 099c  NX6110/NC6120
 1043 80a6  P5GD1-VW Mainboard
 1458 2558  GA-8I915ME-G Mainboard
 1462 7028  915P/G Neo2
 1734 105c  Scenic W620
 e4bf 0ccd  CCD-CALYPSO
 e4bf 0cd3  CD3-JIVE
 e4bf 58b1  XB1
2659  82801FB/FBM/FR/FW/FRW (ICH6 Family) USB UHCI #2
 1014 0565  ThinkPad X41
 1028 0177  Dimension 8400
 1028 0179  Optiplex GX280
 103c 0934  Compaq nw8240/nx8220
 103c 0944  Compaq nc6220 Notebook PC
 103c 099c  NX6110/NC6120
 1043 80a6  P5GD1-VW Mainboard
 1458 2659  GA-8I915ME-G Mainboard
 1462 7028  915P/G Neo2
 1734 105c  Scenic W620
 e4bf 0ccd  CCD-CALYPSO
 e4bf 0cd3  CD3-JIVE
 e4bf 58b1  XB1
265a  82801FB/FBM/FR/FW/FRW (ICH6 Family) USB UHCI #3
 1014
0565  ThinkPad X41
 1028 0177  Dimension 8400
 1028 0179  Optiplex GX280
 103c 0934  Compaq nw8240/nx8220
 103c 0944  Compaq nc6220 Notebook PC
 103c 099c  NX6110/NC6120
 1043 80a6  P5GD1-VW Mainboard
 1458 265a  GA-8I915ME-G Mainboard
 1462 7028  915P/G Neo2
 1734 105c  Scenic W620
 e4bf 0ccd  CCD-CALYPSO
 e4bf 0cd3  CD3-JIVE
 e4bf 58b1  XB1
265b  82801FB/FBM/FR/FW/FRW (ICH6 Family) USB UHCI #4
 1014 0565  ThinkPad X41
 1028 0177  Dimension 8400
```

1028 0179 Optiplex GX280
103c 099c NX6110/NC6120
1043 80a6 P5GD1-VW Mainboard
1458 265a GA-8I915ME-G Mainboard
1462 7028 915P/G Neo2
1734 105c Scenic W620
e4bf 0ccd CCD-CALYPSO
e4bf 0cd3 CD3-JIVE
e4bf 58b1 XB1
265c 82801FB/FBM/FR/FW/FRW (ICH6 Family) USB2 EHCI Controller
1014 0566 ThinkPad X41
1028 0177 Dimension 8400
1028 0179 Optiplex GX280
103c 0934 Compaq nw8240/nx8220
103c 0944 Compaq nc6220 Notebook PC
103c 099c NX6110/NC6120
1043 80a6 P5GD1-VW Mainboard
1458 5006
GA-8I915ME-G Mainboard
1462 7028 915P/G Neo2
1734 105c Scenic W620
8086 265c Dimension 3100
e4bf 0ccd CCD-CALYPSO
e4bf 0cd3 CD3-JIVE
e4bf 58b1 XB1
2660 82801FB/FBM/FR/FW/FRW (ICH6 Family) PCI Express Port 1
103c 0934 Compaq nw8240 Mobile Workstation
103c 0944 Compaq nc6220 Notebook PC
103c 099c NX6110/NC6120
e4bf 0ccd CCD-CALYPSO
e4bf 0cd3 CD3-JIVE
e4bf 58b1 XB1
2662 82801FB/FBM/FR/FW/FRW (ICH6 Family) PCI Express Port 2
103c 0934 Compaq nw8240 Mobile Workstation
103c 0944 Compaq nc6220 Notebook PC
e4bf 0ccd CCD-CALYPSO
e4bf 0cd3 CD3-JIVE
e4bf 58b1 XB1
2664 82801FB/FBM/FR/FW/FRW (ICH6 Family) PCI Express Port 3
e4bf 0ccd CCD-CALYPSO
e4bf 0cd3 CD3-JIVE
e4bf 58b1 XB1
2666 82801FB/FBM/FR/FW/FRW (ICH6 Family) PCI Express Port 4
e4bf 0ccd CCD-CALYPSO
e4bf 0cd3 CD3-JIVE
e4bf 58b1 XB1
2668 82801FB/FBM/FR/FW/FRW (ICH6 Family) High Definition Audio Controller
1014 05b7 ThinkPad Z60t

```
# based on the PTGD1-LA motherboard
  103c
 2a09  PufferM-UL8E
  1043 1173  A6VC
  1043 814e  P5GD1-VW Mainboard
  1462 7028  915P/G Neo2
  1af4 1100  QEMU Virtual Machine
 266a  82801FB/FBM/FR/FW/FRW (ICH6 Family) SMBus Controller
  1014 056b  ThinkPad X41
  1028 0177  Dimension 8400
  1028 0179  Optiplex GX280
  1043 80a6  P5GD1-VW Mainboard
  1458 266a  GA-8I915ME-G Mainboard
  1462 7028  915P/G Neo2
  1734 105c  Scenic W620
  e4bf 0ccd  CCD-CALYPSO
  e4bf 0cd3  CD3-JIVE
  e4bf 58b1  XB1
 266c  82801FB/FBM/FR/FW/FRW (ICH6 Family) LAN Controller
 266d  82801FB/FBM/FR/FW/FRW (ICH6 Family) AC'97 Modem Controller
  1025 006a  Conexant AC'97 CoDec (in Acer TravelMate 2410 serie laptop)
  103c 0934  Compaq nw8240/nx8220
  103c 099c  NX6110/NC6120
 266e  82801FB/FBM/FR/FW/FRW (ICH6 Family) AC'97 Audio Controller
  1014 0581  ThinkPad X41 (Analog Devices AD1981B codec)
  1025 006a  Realtek ALC 655 codec (in Acer TravelMate 2410 serie laptop)
  1028 0177  Dimension 8400
  1028 0179  Optiplex GX280
  1028 0182  Latitude D610
 Laptop
  1028 0187  Precision M70 Laptop
  1028 0188  Inspiron 6000 laptop
  103c 0934  Compaq nw8240/nx8220
  103c 0944  Compaq NC6220
  103c 099c  NX6110/NC6120
  103c 3006  DC7100 SFF(DX878AV)
  1458 a002  GA-8I915ME-G Mainboard
  152d 0745  Packard Bell A8550 Laptop
  1734 105a  Scenic W620
 266f  82801FB/FBM/FR/FW/FRW (ICH6 Family) IDE Controller
  1028 0177  Dimension 8400
  103c 0934  Compaq nw8240/nx8220
  103c 0944  Compaq nc6220 Notebook PC
  103c 099c  NX6110/NC6120
  1043 80a6  P5GD1-VW Mainboard
  1458 266f  GA-8I915ME-G Mainboard
  1462 7028  915P/G Neo2
  1734 105c  Scenic W620
```

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 e4bf 0ccd  CCD-CALYPSO
 e4bf 0cd3  CD3-JIVE
 e4bf 58b1  XB1
2670  631xESB/632xESB/3100 Chipset LPC Interface Controller
 103c 31fe  ProLiant DL140 G3
 15d9 8680  X7DVL-E-O motherboard
 15d9 9680  X7DBN Motherboard
 8086 3476  S5000PSLSATA Server Board
2680  631xESB/632xESB/3100 Chipset SATA IDE Controller
2681  631xESB/632xESB SATA AHCI Controller
 103c 31fe  ProLiant DL140 G3
 15d9
8680  X7DVL-E-O motherboard
 15d9 9680  X7DBN Motherboard
 8086 3476  S5000PSLSATA Server Board
2682  631xESB/632xESB SATA RAID Controller
 103c 31fe  Adaptec Serial ATA HostRAID
2683  631xESB/632xESB SATA RAID Controller
2688  631xESB/632xESB/3100 Chipset UHCI USB Controller #1
 1028 01bb  PowerEdge 1955 onboard USB
 1028 01f0  PowerEdge R900 onboard USB
 103c 31fe  ProLiant DL140 G3
 15d9 8680  X7DVL-E-O motherboard
 15d9 9680  X7DBN Motherboard
 8086 3476  S5000PSLSATA Server Board
2689  631xESB/632xESB/3100 Chipset UHCI USB Controller #2
 1028 01bb  PowerEdge 1955 onboard USB
 1028 01f0  PowerEdge R900 onboard USB
 103c 31fe  ProLiant DL140 G3
 15d9 8680  X7DVL-E-O motherboard
 15d9 9680  X7DBN Motherboard
 8086 3476  S5000PSLSATA Server Board
268a  631xESB/632xESB/3100 Chipset UHCI USB Controller #3
 1028 01f0  PowerEdge R900 onboard USB
 103c 31fe  ProLiant DL140 G3
 15d9 8680  X7DVL-E-O motherboard
 15d9 9680  X7DBN Motherboard
 8086 3476  S5000PSLSATA
Server Board
268b  631xESB/632xESB/3100 Chipset UHCI USB Controller #4
 1028 01f0  PowerEdge R900 onboard USB
 15d9 8680  X7DVL-E-O motherboard
 8086 3476  S5000PSLSATA Server Board
268c  631xESB/632xESB/3100 Chipset EHCI USB2 Controller
 1028 01bb  PowerEdge 1955 onboard USB
 1028 01f0  PowerEdge R900 onboard USB
 103c 31fe  ProLiant DL140 G3
 15d9 8680  X7DVL-E-O motherboard
```

15d9 9680 X7DBN Motherboard
8086 3476 S5000PSLSATA Server Board
2690 631xESB/632xESB/3100 Chipset PCI Express Root Port 1
103c 31fe ProLiant DL140 G3
15d9 9680 X7DBN Motherboard
2692 631xESB/632xESB/3100 Chipset PCI Express Root Port 2
103c 31fe ProLiant DL140 G3
2694 631xESB/632xESB/3100 Chipset PCI Express Root Port 3
2696 631xESB/632xESB/3100 Chipset PCI Express Root Port 4
2698 631xESB/632xESB AC '97 Audio Controller
2699 631xESB/632xESB AC '97 Modem Controller
269a 631xESB/632xESB High Definition Audio Controller
269b 631xESB/632xESB/3100 Chipset SMBus Controller
103c
31fe ProLiant DL140 G3
15d9 8680 X7DVL-E-O motherboard
15d9 9680 X7DBN Motherboard
8086 3476 S5000PSLSATA Server Board
269e 631xESB/632xESB IDE Controller
103c 31fe ProLiant DL140 G3
15d9 8680 X7DVL-E-O motherboard
15d9 9680 X7DBN Motherboard
2700 Optane SSD 900P Series
8086 3900 900P Series [Add-in Card]
8086 3901 900P Series [2.5" SFF]
2701 NVMe Datacenter SSD [Optane]
1028 2000 Express Flash NVMe [Optane] 375GB 2.5" U.2 (P4800X)
1028 2001 Express Flash NVMe [Optane] 750GB 2.5" U.2 (P4800X)
1028 2002 Express Flash NVMe [Optane] 750GB AIC (P4800X)
1028 200a Express Flash NVMe [Optane] 375GB AIC (P4800X)
8086 3904 NVMe Datacenter SSD [Optane] x4 AIC (P4800X)
8086 3905 NVMe Datacenter SSD [Optane] 15mm 2.5" U.2 (P4800X)
2723 Wi-Fi 6 AX200
8086 2723 Wireless AX200
2770 82945G/GZ/P/PL Memory Controller Hub
1028 01ad OptiPlex GX620
103c 2a3b Pavilion A1512X
1043 817a P5LD2-VM Mainboard
107b 5048 E4500
1462 7418 Wind
PC MS-7418
1849 2770 ConRoe1333-D667
8086 544e DeskTop Board D945GTP
2771 82945G/GZ/P/PL PCI Express Root Port
2772 82945G/GZ Integrated Graphics Controller
103c 2a3b Pavilion A1512X
1462 7418 Wind PC MS-7418
1849 2772 ConRoe1333-D667

8086 544e DeskTop Board D945GTP
8086 d605 Desktop Board D945GCCR
2774 82955X Memory Controller Hub
2775 82955X PCI Express Root Port
2776 82945G/GZ Integrated Graphics Controller
2778 E7230/3000/3010 Memory Controller Hub
1028 01df PowerEdge SC440
1028 01e6 PowerEdge 860
2779 E7230/3000/3010 PCI Express Root Port
277a 82975X/3010 PCI Express Root Port
277c 82975X Memory Controller Hub
1043 8178 P5WDG2 WS Professional motherboard
277d 82975X PCI Express Root Port
2782 82915G Integrated Graphics Controller
1043 2582 P5GD1-VW Mainboard
1734 105b Scenic W620
2792 Mobile 915GM/GMS/910GML Express Graphics Controller
1014 0582 ThinkPad X41
103c 099c NX6110/NC6120
103c 308a Compaq nc6220 Notebook
PC
1043 1881 GMA 900 915GM Integrated Graphics
e4bf 0ccd CCD-CALYPSO
e4bf 0cd3 CD3-JIVE
e4bf 58b1 XB1
27a0 Mobile 945GM/PM/GMS, 943/940GML and 945GT Express Memory Controller Hub
1025 006c 9814 WKMI
1028 01d7 XPS M1210
103c 309f Compaq nx9420 Notebook
103c 30a1 NC2400
103c 30a3 Compaq nw8440
103c 30d5 530 Laptop
1043 1237 A6J-Q008
1071 8209 Medion MIM 2240 Notebook PC [MD98100]
17aa 2015 ThinkPad T60
17aa 2017 ThinkPad R60/T60/X60 series
27a1 Mobile 945GM/PM/GMS, 943/940GML and 945GT Express PCI Express Root Port
103c 309f Compaq nx9420 Notebook
103c 30a3 Compaq nw8440
1071 8209 Medion MIM 2240 Notebook PC [MD98100]
27a2 Mobile 945GM/GMS, 943/940GML Express Integrated Graphics Controller
103c 30a1 NC2400
103c 30d5 530 Laptop
17aa 201a ThinkPad R60/T60/X60 series
9902 1584 CCE MPL-D10H120F
27a6 Mobile 945GM/GMS/GME, 943/940GML Express Integrated Graphics Controller
103c 30a1 NC2400
103c 30d5 530 Laptop

1775
11cc CC11/CL11 integrated graphics (secondary)
17aa 201a ThinkPad R60/T60/X60 series
27ac Mobile 945GSE Express Memory Controller Hub
1775 11cc CC11/CL11
27ad Mobile 945GSE Express PCI Express Root Port
27ae Mobile 945GSE Express Integrated Graphics Controller
1775 11cc CC11/CL11 integrated graphics (primary)
27b0 82801GH (ICH7DH) LPC Interface Bridge
103c 2a3b Pavilion A1512X
8086 544e DeskTop Board D945GTP
27b8 82801GB/GR (ICH7 Family) LPC Interface Bridge
1028 01e6 PowerEdge 860
103c 2a8c Compaq 500B Microtower
1043 8179 P5B-MX/WiFi-AP, P5KPL-VM Motherboard
107b 5048 E4500
1462 7418 Wind PC MS-7418
1775 11cc CC11/CL11
8086 544e DeskTop Board D945GTP
27b9 82801GBM (ICH7-M) LPC Interface Bridge
1028 01d7 XPS M1210
103c 309f Compaq nx9420 Notebook
103c 30a1 NC2400
103c 30a3 Compaq nw8440
103c 30d5 530 Laptop
1071 8209 Medion MIM 2240 Notebook PC [MD98100]
10f7 8338 Panasonic CF-Y5 laptop
17aa 2009 ThinkPad R60/T60/X60
series
27bc NM10 Family LPC Controller
1043 83ad Eee PC 1015PX
105b 0d7c D270S/D250S Motherboard
144d c072 Notebook N150P
1458 5001 GA-D525TUD
8086 4f4d DeskTop Board D510MO
8086 544b Desktop Board D425KT
27bd 82801GHM (ICH7-M DH) LPC Interface Bridge
1025 006c 9814 WKMI
27c0 NM10/ICH7 Family SATA Controller [IDE mode]
1028 01ad OptiPlex GX620
1028 01df PowerEdge SC440
1028 01e6 PowerEdge 860
103c 2a8c Compaq 500B Microtower
1043 8179 P5B-MX/WiFi-AP, P5KPL-VM Motherboard
107b 5048 E4500
1462 2310 MSI Hetis 945
1462 7236 945P Neo3-F Rev. 2.2 motherboard
1462 7418 Wind PC MS-7418

1775 11cc CC11/CL11
8086 544b Desktop Board D425KT
8086 544e DeskTop Board D945GTP
27c1 NM10/ICH7 Family SATA Controller [AHCI mode]
1028 01df PowerEdge SC440
103c 2a3b Pavilion A1512X
1043 83ad Eee PC 1015PX
105b 0d7c D270S/D250S Motherboard
144d c072 Notebook N150P
1458 b005 GA-D525TUD
1775 11cc CC11/CL11
8086 4f4d
DeskTop Board D510MO
8086 5842 DeskTop Board D975XBX
27c3 82801GR/GDH (ICH7R/ICH7DH) SATA Controller [RAID mode]
1775 11cc CC11/CL11
8086 544e DeskTop Board D945GTP
27c4 82801GBM/GHM (ICH7-M Family) SATA Controller [IDE mode]
1025 006c 9814 WKMI
1028 01d7 XPS M1210
1071 8209 Medion MIM 2240 Notebook PC [MD98100]
17aa 200e ThinkPad T60
27c5 82801GBM/GHM (ICH7-M Family) SATA Controller [AHCI mode]
103c 309f Compaq nx9420 Notebook
103c 30a3 Compaq nw8440
103c 30d5 530 Laptop
17aa 200d ThinkPad R60/T60/X60 series
27c6 82801GHM (ICH7-M DH) SATA Controller [RAID mode]
27c8 NM10/ICH7 Family USB UHCI Controller #1
1025 006c 9814 WKMI
1028 01ad OptiPlex GX620
1028 01d7 XPS M1210
1028 01df PowerEdge SC440
1028 01e6 PowerEdge 860
103c 2a3b Pavilion A1512X
103c 2a8c Compaq 500B Microtower
103c 309f Compaq nx9420 Notebook
103c 30a1 NC2400
103c 30a3 Compaq nw8440
103c 30d5 530 Laptop
1043 1237 A6J-Q008
1043 8179 P5B-MX/WiFi-AP,
P5KPL-VM, P5LD2-VM Mainboard
1043 83ad Eee PC 1015PX
105b 0d7c D270S/D250S Motherboard
1071 8209 Medion MIM 2240 Notebook PC [MD98100]
107b 5048 E4500
144d c072 Notebook N150P

1458 5004 GA-D525TUD
1462 7418 Wind PC MS-7418
1775 11cc CC11/CL11
17aa 200a ThinkPad R60/T60/X60 series
8086 4f4d DeskTop Board D510MO
8086 544b Desktop Board D425KT
8086 544e DeskTop Board D945GTP
27c9 NM10/ICH7 Family USB UHCI Controller #2
1025 006c 9814 WKMI
1028 01ad OptiPlex GX620
1028 01d7 XPS M1210
1028 01df PowerEdge SC440
1028 01e6 PowerEdge 860
103c 2a3b Pavilion A1512X
103c 2a8c Compaq 500B Microtower
103c 309f Compaq nx9420 Notebook
103c 30a1 NC2400
103c 30a3 Compaq nw8440
1043 1237 A6J-Q008
1043 8179 P5B-MX/WiFi-AP, P5KPL-VM, P5LD2-VM Mainboard
1043 83ad Eee PC 1015PX
105b 0d7c D270S/D250S Motherboard
1071 8209 Medion MIM 2240 Notebook PC [MD98100]
107b 5048 E4500
144d c072 Notebook N150P
1458 5004
GA-D525TUD
1462 7418 Wind PC MS-7418
1775 11cc CC11/CL11
17aa 200a ThinkPad R60/T60/X60 series
8086 4f4d DeskTop Board D510MO
8086 544b Desktop Board D425KT
8086 544e DeskTop Board D945GTP
27ca NM10/ICH7 Family USB UHCI Controller #3
1025 006c 9814 WKMI
1028 01ad OptiPlex GX620
1028 01d7 XPS M1210
1028 01df PowerEdge SC440
1028 01e6 PowerEdge 860
103c 2a3b Pavilion A1512X
103c 2a8c Compaq 500B Microtower
103c 309f Compaq nx9420 Notebook
103c 30a1 NC2400
103c 30a3 Compaq nw8440
1043 1237 A6J-Q008
1043 8179 P5B-MX/WiFi-AP, P5KPL-VM, P5LD2-VM Mainboard
1043 83ad Eee PC 1015PX
105b 0d7c D270S/D250S Motherboard

1071 8209 Medion MIM 2240 Notebook PC [MD98100]
107b 5048 E4500
144d c072 Notebook N150P
1458 5004 GA-D525TUD
1462 7418 Wind PC MS-7418
1775 11cc CC11/CL11
17aa 200a ThinkPad R60/T60/X60 series
8086 4f4d DeskTop Board D510MO
8086 544e DeskTop Board D945GTP
27cb NM10/ICH7 Family USB UHCI Controller
#4
1025 006c 9814 WKMI
1028 01ad OptiPlex GX620
1028 01d7 XPS M1210
1028 01df PowerEdge SC440
103c 2a3b Pavilion A1512X
103c 2a8c Compaq 500B Microtower
103c 309f Compaq nx9420 Notebook
103c 30a1 NC2400
103c 30a3 Compaq nw8440
1043 1237 A6J-Q008
1043 8179 P5B-MX/WiFi-AP, P5KPL-VM, P5LD2-VM Mainboard
1043 83ad Eee PC 1015PX
105b 0d7c D270S/D250S Motherboard
1071 8209 Medion MIM 2240 Notebook PC [MD98100]
107b 5048 E4500
144d c072 Notebook N150P
1458 5004 GA-D525TUD
1462 7418 Wind PC MS-7418
1775 11cc CC11/CL11
17aa 200a ThinkPad R60/T60/X60 series
8086 4f4d DeskTop Board D510MO
8086 544e DeskTop Board D945GTP
27cc NM10/ICH7 Family USB2 EHCI Controller
1025 006c 9814 WKMI
1028 01ad OptiPlex GX620
1028 01d7 XPS M1210
1028 01df PowerEdge SC440
1028 01e6 PowerEdge 860
103c 2a3b Pavilion A1512X
103c 2a8c Compaq 500B Microtower
103c 309f Compaq nx9420 Notebook
103c 30a1 NC2400
103c 30a3 Compaq
nw8440
103c 30d5 530 Laptop
1043 1237 A6J-Q008
1043 8179 P5B-MX/WiFi-AP, P5KPL-VM, P5LD2-VM Mainboard

1043 83ad Eee PC 1015PX
105b 0d7c D270S/D250S Motherboard
1071 8209 Medion MIM 2240 Notebook PC [MD98100]
144d c072 Notebook N150P
1458 5006 GA-D525TUD
1462 7418 Wind PC MS-7418
1775 11cc CC11/CL11
17aa 200b ThinkPad R60/T60/X60 series
8086 4f4d DeskTop Board D510MO
8086 544b Desktop Board D425KT
8086 544e DeskTop Board D945GTP
27d0 NM10/ICH7 Family PCI Express Port 1
103c 309f Compaq nx9420 Notebook
103c 30a3 Compaq nw8440
1071 8209 Medion MIM 2240 Notebook PC [MD98100]
144d c072 Notebook N150P
1458 5001 GA-D525TUD
1462 7418 Wind PC MS-7418
1775 11cc CC11/CL11
17aa 2011 ThinkPad R60e
8086 544b Desktop Board D425KT
27d2 NM10/ICH7 Family PCI Express Port 2
103c 309f Compaq nx9420 Notebook
103c 30a3 Compaq nw8440
1071 8209 Medion MIM 2240 Notebook PC [MD98100]
144d c072 Notebook N150P
1462 7418 Wind
PC MS-7418
1775 11cc CC11/CL11
17aa 2011 ThinkPad R60e
8086 544b Desktop Board D425KT
27d4 NM10/ICH7 Family PCI Express Port 3
1071 8209 Medion MIM 2240 Notebook PC [MD98100]
144d c072 Notebook N150P
1462 7418 Wind PC MS-7418
1775 11cc CC11/CL11
17aa 2011 ThinkPad R60e
8086 544b Desktop Board D425KT
27d6 NM10/ICH7 Family PCI Express Port 4
103c 30a3 Compaq nw8440
1071 8209 Medion MIM 2240 Notebook PC [MD98100]
144d c072 Notebook N150P
1462 7418 Wind PC MS-7418
1775 11cc CC11/CL11
17aa 2011 ThinkPad R60e
8086 544b Desktop Board D425KT
27d8 NM10/ICH7 Family High Definition Audio Controller
1025 006c 9814 WKMI

1028 01d7 XPS M1210
103c 2a3b Pavilion A1512X
103c 2a8c Compaq 500B Microtower
103c 309f Compaq nx9420 Notebook
103c 30a1 NC2400
103c 30a3 Compaq nw8440
103c 30d5 530 Laptop
1043 1123 A6J-Q008
1043 13c4 G2P
1043 817f P5LD2-VM Mainboard (Realtek ALC 882 codec)
1043 8249 P5B-MX/WiFi-AP
1043 8290
P5KPL-VM Motherboard
1043 82ea P5KPL-CM Motherboard
1043 8437 Eee PC 1015PX
105b 0d7c D270S/D250S Motherboard
1071 8207 Medion MIM 2240 Notebook PC [MD98100]
107b 5048 E4500
10f7 8338 Panasonic CF-Y5 laptop
1179 ff10 Toshiba Satellite A100-796 audio (Realtek ALC861)
1179 ff31 AC97 Data Fax SoftModem with SmartCP
1447 1043 Asus A8JP (Analog Devices AD1986A)
144d c072 Notebook N150P
1458 a002 GA-D525TUD (Realtek ALC887)
1458 a102 GA-8I945PG-RH Mainboard
1462 7418 Wind PC MS-7418
152d 0753 Softmodem
1734 10ad Conexant softmodem SmartCP
17aa 2010 ThinkPad R60/T60/X60 series
17aa 3802 3000 C200 audio [Realtek ALC861VD]
8086 1112 DeskTop Board D945GTP
8086 27d8 DeskTop Board D945GTP
8086 d618 DeskTop Board D510MO
8384 7680 STAC9221 HD Audio Codec
27da NM10/ICH7 Family SMBus Controller
1025 006c 9814 WKMI
1028 01ad OptiPlex GX620
1028 01d7 XPS M1210
1028 01df PowerEdge SC440
1028 01e6 PowerEdge 860
103c 2a3b
Pavilion A1512X
103c 2a8c Compaq 500B Microtower
1043 8179 P5B-MX/WiFi-AP, P5KPL-VM Motherboard
105b 0d7c D270S/D250S Motherboard
1071 8209 Medion MIM 2240 Notebook PC [MD98100]
10f7 8338 Panasonic CF-Y5 laptop
144d c072 Notebook N150P

1458 5001 GA-8I945PG-RH/GA-D525TUD Mainboard
1462 7418 Wind PC MS-7418
1775 11cc CC11/CL11
17aa 200f ThinkPad R60/T60/X60 series
8086 4f4d DeskTop Board D510MO
8086 544b Desktop Board D425KT
8086 544e DeskTop Board D945GTP
8086 5842 DeskTop Board D975XBX
27dc NM10/ICH7 Family LAN Controller
103c 2a3b Pavilion A1512X
8086 308d DeskTop Board D945GTP
27dd 82801G (ICH7 Family) AC'97 Modem Controller
27de 82801G (ICH7 Family) AC'97 Audio Controller
1028 01ad OptiPlex GX620
1462 7267 Realtek ALC883 Audio Controller
1775 11cc CC11 integrated audio (AD1981BL codec)
27df 82801G (ICH7 Family) IDE Controller
1028 01df PowerEdge SC440
1028 01e6 PowerEdge 860
103c 2a3b Pavilion A1512X
103c
2a8c Compaq 500B Microtower
103c 309f Compaq nx9420 Notebook
103c 30a1 NC2400
103c 30a3 Compaq nw8440
103c 30d5 530 Laptop
1043 1237 A6J-Q008
1043 8179 P5B-MX/WiFi-AP, P5KPL-VM Motherboard
107b 5048 E4500
10f7 8338 Panasonic CF-Y5 laptop
1462 7418 Wind PC MS-7418
1775 11cc CC11/CL11
17aa 200c ThinkPad R60/T60/X60 series
8086 544e DeskTop Board D945GTP
27e0 82801GR/GH/GHM (ICH7 Family) PCI Express Port 5
1775 11cc CC11/CL11
27e2 82801GR/GH/GHM (ICH7 Family) PCI Express Port 6
1775 11cc CC11/CL11
280b Intel(R) Display Audio
2810 82801HB/HR (ICH8/R) LPC Interface Controller
1043 81ec P5B
2811 82801HEM (ICH8M-E) LPC Interface Controller
103c 30c1 Compaq 6910p
17aa 20b6 ThinkPad T61/R61
e4bf cc47 CCG-RUMBA
2812 82801HH (ICH8DH) LPC Interface Controller
2814 82801HO (ICH8DO) LPC Interface Controller
2815 82801HM (ICH8M) LPC Interface Controller

1025 0121 Aspire 5920G
1028 01f3 Inspiron 1420
1028 022f Inspiron 1525
103c
30c0 Compaq 6710b
103c 30cc Pavilion dv6700
103c 30d9 Presario C700
1043 1017 X58LE
104d 9005 Vaio VGN-FZ260E
104d 902d VAIO VGN-NR120E
17aa 20a5 ThinkPad R61
17c0 4083 Medion WIM 2210 Notebook PC [MD96850]
2820 82801H (ICH8 Family) 4 port SATA Controller [IDE mode]
1028 01da OptiPlex 745
1462 7235 P965 Neo MS-7235 mainboard
2821 82801HR/HO/HH (ICH8R/DO/DH) 6 port SATA Controller [AHCI mode]
2822 SATA Controller [RAID mode]
1028 020d Inspiron 530
103c 2a6f Asus IPIBL-LB Motherboard
1043 8277 P5K PRO Motherboard: 82801IR [ICH9R]
1462 7345 MS-7345 Motherboard: Intel 82801I/IR [ICH9/ICH9R]
2823 C610/X99 series chipset sSATA Controller [RAID mode]
2824 82801HB (ICH8) 4 port SATA Controller [AHCI mode]
1043 81ec P5B
2825 82801HR/HO/HH (ICH8R/DO/DH) 2 port SATA Controller [IDE mode]
1028 01da OptiPlex 745
1462 7235 P965 Neo MS-7235 mainboard
2826 C600/X79 series chipset SATA RAID Controller
1d49 0100 Intel RSTe SATA
Software RAID
1d49 0101 Intel RSTe SATA Software RAID
1d49 0102 Intel RSTe SATA Software RAID
1d49 0103 Intel RSTe SATA Software RAID
1d49 0104 Intel RSTe SATA Software RAID
1d49 0105 Intel RSTe SATA Software RAID
2827 C610/X99 series chipset sSATA Controller [RAID mode]
2828 82801HM/HEM (ICH8M/ICH8M-E) SATA Controller [IDE mode]
1028 01f3 Inspiron 1420
103c 30c0 Compaq 6710b
17aa 20a8 ThinkPad R61
e4bf cc47 CCG-RUMBA
2829 82801HM/HEM (ICH8M/ICH8M-E) SATA Controller [AHCI mode]
1025 0121 Aspire 5920G
1028 022f Inspiron 1525
103c 30c0 Compaq 6710b
103c 30c1 Compaq 6910p
103c 30cc Pavilion dv6700
103c 30d9 Presario C700

1043 1017 X58LE
104d 9005 Vaio VGN-FZ260E
104d 902d VAIO VGN-NR120E
17aa 20a7 ThinkPad T61/R61
17c0 4083 Medion WIM 2210 Notebook PC [MD96850]
e4bf cc47 CCG-RUMBA
282a 82801 Mobile SATA Controller [RAID mode]
1028 040b Latitude E6510
e4bf 50c1 PC1-GROOVE
2830 82801H (ICH8 Family) USB UHCI Controller
#1
1025 0121 Aspire 5920G
1028 01da OptiPlex 745
1028 01f3 Inspiron 1420
1028 022f Inspiron 1525
103c 30c0 Compaq 6710b
103c 30c1 Compaq 6910p
103c 30cc Pavilion dv6700
103c 30d9 Presario C700
1043 1017 X58LE
1043 81ec P5B
104d 9005 Vaio VGN-FZ260E
104d 902d VAIO VGN-NR120E
1462 7235 P965 Neo MS-7235 mainboard
17aa 20aa ThinkPad T61/R61
17c0 4083 Medion WIM 2210 Notebook PC [MD96850]
e4bf cc47 CCG-RUMBA
2831 82801H (ICH8 Family) USB UHCI Controller #2
1025 0121 Aspire 5920G
1028 01da OptiPlex 745
1028 01f3 Inspiron 1420
1028 022f Inspiron 1525
103c 30c0 Compaq 6710b
103c 30c1 Compaq 6910p
103c 30cc Pavilion dv6700
103c 30d9 Presario C700
1043 1017 X58LE
1043 81ec P5B
104d 9005 Vaio VGN-FZ260E
104d 902d VAIO VGN-NR120E
1462 7235 P965 Neo MS-7235 mainboard
17aa 20aa ThinkPad T61/R61
17c0 4083 Medion WIM 2210 Notebook PC [MD96850]
e4bf cc47 CCG-RUMBA
2832 82801H (ICH8 Family) USB UHCI
Controller #3
1025 0121 Aspire 5920G
1028 01da OptiPlex 745

1028 01f3 Inspiron 1420
1028 022f Inspiron 1525
103c 30c0 Compaq 6710b
103c 30c1 Compaq 6910p
103c 30cc Pavilion dv6700
103c 30d9 Presario C700
1043 1017 X58LE
1043 81ec P5B
104d 9005 Vaio VGN-FZ260E
104d 902d VAIO VGN-NR120E
17aa 20aa ThinkPad T61/R61
17c0 4083 Medion WIM 2210 Notebook PC [MD96850]
e4bf cc47 CCG-RUMBA
2833 82801H (ICH8 Family) USB UHCI Controller #4
1043 81ec P5B
2834 82801H (ICH8 Family) USB UHCI Controller #4
1025 0121 Aspire 5920G
1028 01da OptiPlex 745
1028 01f3 Inspiron 1420
1028 022f Inspiron 1525
103c 30c0 Compaq 6710b
103c 30c1 Compaq 6910p
103c 30cc Pavilion dv6700
1043 1017 X58LE
1043 81ec P5B
104d 9005 Vaio VGN-FZ260E
104d 902d VAIO VGN-NR120E
1462 7235 P965 Neo MS-7235 mainboard
17aa 20aa ThinkPad T61/R61
17c0 4083 Medion WIM 2210 Notebook PC [MD96850]
e4bf cc47 CCG-RUMBA
2835 82801H (ICH8 Family) USB
UHCI Controller #5
1025 0121 Aspire 5920G
1028 01da OptiPlex 745
1028 01f3 Inspiron 1420
1028 022f Inspiron 1525
103c 30c0 Compaq 6710b
103c 30c1 Compaq 6910p
103c 30cc Pavilion dv6700
1043 1017 X58LE
1043 81ec P5B
104d 9005 Vaio VGN-FZ260E
104d 902d VAIO VGN-NR120E
17aa 20aa Thinkpad T61/R61
17c0 4083 Medion WIM 2210 Notebook PC [MD96850]
e4bf cc47 CCG-RUMBA
2836 82801H (ICH8 Family) USB2 EHCI Controller #1

1025 0121 Aspire 5920G
1028 01da OptiPlex 745
1028 01f3 Inspiron 1420
1028 022f Inspiron 1525
103c 30c0 Compaq 6710b
103c 30c1 Compaq 6910p
103c 30cc Pavilion dv6700
103c 30d9 Presario C700
1043 1017 X58LE
1043 81ec P5B
104d 9005 Vaio VGN-FZ260E
104d 902d VAIO VGN-NR120E
1462 7235 P965 Neo MS-7235 mainboard
17aa 20ab ThinkPad T61/R61
17c0 4083 Medion WIM 2210 Notebook PC [MD96850]
e4bf cc47 CCG-RUMBA
283a 82801H (ICH8 Family) USB2 EHCI Controller #2
1025 0121 Aspire 5920G
1028 01da
OptiPlex 745
1028 01f3 Inspiron 1420
1028 022f Inspiron 1525
103c 30c0 Compaq 6710b
103c 30c1 Compaq 6910p
103c 30cc Pavilion dv6700
1043 1017 X58LE
1043 81ec P5B
104d 9005 Vaio VGN-FZ260E
104d 902d VAIO VGN-NR120E
17aa 20ab ThinkPad T61/R61
17c0 4083 Medion WIM 2210 Notebook PC [MD96850]
e4bf cc47 CCG-RUMBA
283e 82801H (ICH8 Family) SMBus Controller
1025 0121 Aspire 5920G
1028 01da OptiPlex 745
1028 01f3 Inspiron 1420
1028 022f Inspiron 1525
103c 30d9 Presario C700
1043 1017 X58LE
1043 81ec P5B
104d 9005 Vaio VGN-FZ260E
104d 9008 Vaio VGN-SZ79SN_C
104d 902d VAIO VGN-NR120E
1462 7235 P965 Neo MS-7235 mainboard
17aa 20a9 ThinkPad T61/R61
17c0 4083 Medion WIM 2210 Notebook PC [MD96850]
e4bf cc47 CCG-RUMBA
283f 82801H (ICH8 Family) PCI Express Port 1

1028 01da OptiPlex 745
103c 30c1 Compaq 6910p
1043 1017 X58LE
104d 902d VAIO VGN-NR120E
17aa 20ad ThinkPad T61/R61
17c0 4083 Medion WIM 2210
Notebook PC [MD96850]
2841 82801H (ICH8 Family) PCI Express Port 2
103c 30c1 Compaq 6910p
1043 1017 X58LE
104d 902d VAIO VGN-NR120E
17aa 20ad ThinkPad T61/R61
17c0 4083 Medion WIM 2210 Notebook PC [MD96850]
2843 82801H (ICH8 Family) PCI Express Port 3
1043 1017 X58LE
104d 902d VAIO VGN-NR120E
17aa 20ad ThinkPad T61/R61
17c0 4083 Medion WIM 2210 Notebook PC [MD96850]
2845 82801H (ICH8 Family) PCI Express Port 4
1043 1017 X58LE
17aa 20ad ThinkPad T61/R61
17c0 4083 Medion WIM 2210 Notebook PC [MD96850]
2847 82801H (ICH8 Family) PCI Express Port 5
1028 01da OptiPlex 745
103c 30c1 Compaq 6910p
17aa 20ad ThinkPad T61/R61
17c0 4083 Medion WIM 2210 Notebook PC [MD96850]
2849 82801H (ICH8 Family) PCI Express Port 6
284b 82801H (ICH8 Family) HD Audio Controller
1025 011f Realtek ALC268 audio codec
1025 0121 Aspire 5920G
1025 0145 Realtek ALC889 (Aspire 8920G w. Dolby Theater)
1028 01da OptiPlex 745
1028 01f3 Inspiron 1420
1028
01f9 Latitude D630
1028 01ff Precision M4300
1028 022f Inspiron 1525
1028 0256 Studio 1735
103c 2802 Compaq dc7700p
103c 30c0 Compaq 6710b
103c 30c1 Compaq 6910p
103c 30cc Pavilion dv6700
1043 1339 M51S series
1043 17f3 X58LE
1043 81ec P5B
104d 9005 Vaio VGN-FZ260E
104d 9008 Vaio VGN-SZ79SN_C

104d 9016 Sony VAIO VGN-AR51M
104d 902d VAIO VGN-NR120E
14f1 5051 Presario C700
17aa 20ac ThinkPad T61/R61
17c0 4088 Medion WIM 2210 Notebook PC [MD96850]
8384 7616 Dell Vostro 1400
e4bf cc47 CCG-RUMBA
284f 82801H (ICH8 Family) Thermal Reporting Device
2850 82801HM/HEM (ICH8M/ICH8M-E) IDE Controller
1025 0121 Aspire 5920G
1028 01f3 Inspiron 1420
1028 022f Inspiron 1525
103c 30c0 Compaq 6710b
103c 30c1 Compaq 6910p
103c 30cc Pavilion dv6700
103c 30d9 Presario C700
1043 1017 X58LE
104d 9005 Vaio VGN-FZ260E
104d 902d VAIO VGN-NR120E
17aa 20a6 ThinkPad T61/R61
17c0 4083 Medion WIM 2210 Notebook PC
[MD96850]
e4bf cc47 CCG-RUMBA
28c0 Volume Management Device NVMe RAID Controller
2912 82801IH (ICH9DH) LPC Interface Controller
2914 82801IO (ICH9DO) LPC Interface Controller
1028 0211 Optiplex 755
2916 82801IR (ICH9R) LPC Interface Controller
1028 020d Inspiron 530
103c 2a6f Asus IPIBL-LB Motherboard
1043 8277 P5K PRO Motherboard
1462 7345 MS-7345 Motherboard
8086 5044 Desktop Board DP35DP
2917 ICH9M-E LPC Interface Controller
17aa 20f5 ThinkPad T400
e4bf cc4d CCM-BOOGIE
2918 82801IB (ICH9) LPC Interface Controller
1028 0236 PowerEdge R610 82801IB (ICH9) LPC Interface Controller
1462 7360 G33/P35 Neo
1af4 1100 QEMU Virtual Machine
2919 ICH9M LPC Interface Controller
2920 82801IR/IO/IH (ICH9R/DO/DH) 4 port SATA Controller [IDE mode]
1028 020d Inspiron 530
1028 020f PowerEdge R300 onboard SATA Controller
1028 0210 PowerEdge T300 onboard SATA Controller
1028 0211 Optiplex 755
1028 023c PowerEdge R200 onboard SATA Controller
1043

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8277  P5K PRO Motherboard: 82801IR [ICH9R]
 1462 7345  MS-7345 Motherboard: Intel 82801IR [ICH9R]
2921  82801IB (ICH9) 2 port SATA Controller [IDE mode]
 1028 0235  PowerEdge R710 SATA IDE Controller
 1028 0236  PowerEdge R610 SATA IDE Controller
 1028 0237  PowerEdge T610 SATA IDE Controller
 1462 7360  G33/P35 Neo
2922  82801IR/IO/IH (ICH9R/DO/DH) 6 port SATA Controller [AHCI mode]
 1043 8277  P5K PRO Motherboard: 82801IR [ICH9R]
 1462 7345  MS-7345 Motherboard: Intel 82801IR [ICH9R]
 1af4 1100  QEMU Virtual Machine
 8086 5044  Desktop Board DP35DP
2923  82801IB (ICH9) 4 port SATA Controller [AHCI mode]
2925  82801IR/IO (ICH9R/DO) SATA Controller [RAID mode]
 1734 10e0  System Board D2542
 8086 2925  System Board D2542
2926  82801I (ICH9 Family) 2 port SATA Controller [IDE mode]
 1028 020d  Inspiron 530
 1028 020f  PowerEdge R300 onboard SATA Controller
 1028 0210  PowerEdge T300 onboard SATA Controller
 1028 0211  Optiplex 755
 1043 8277  P5K PRO Motherboard:
82801IR [ICH9R]
 1462 7345  MS-7345 Motherboard: Intel 82801IR [ICH9R]
 1462 7360  G33/P35 Neo
2928  82801IBM/IEM (ICH9M/ICH9M-E) 2 port SATA Controller [IDE mode]
2929  82801IBM/IEM (ICH9M/ICH9M-E) 4 port SATA Controller [AHCI mode]
 103c 3628  dv6-1190en
 17aa 20f8  ThinkPad T400
 e4bf cc4d  CCM-BOOGIE
292c  82801IEM (ICH9M-E) SATA Controller [RAID mode]
292d  82801IBM/IEM (ICH9M/ICH9M-E) 2 port SATA Controller [IDE mode]
 e4bf cc4d  CCM-BOOGIE
2930  82801I (ICH9 Family) SMBus Controller
 1028 020d  Inspiron 530
 1028 0211  Optiplex 755
 103c 2a6f  Asus IPIBL-LB Motherboard
 103c 3628  dv6-1190en
 1043 8277  P5K PRO Motherboard: 82801IR [ICH9R]
 1462 7345  MS-7345 Motherboard: Intel 82801I/IR [ICH9/ICH9R]
 1462 7360  G33/P35 Neo
 17aa 20f9  ThinkPad T400
 1af4 1100  QEMU Virtual Machine
 8086 5044  Desktop Board DP35DP
 e4bf cc4d  CCM-BOOGIE
2932  82801I (ICH9 Family) Thermal Subsystem
 103c 3628  dv6-1190en
2934  82801I (ICH9 Family) USB UHCI Controller
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#1
1028 020d Inspiron 530
1028 020f PowerEdge R300 onboard UHCI
1028 0210 PowerEdge T300 onboard UHCI
1028 0211 Optiplex 755
1028 0235 PowerEdge R710 USB UHCI Controller
1028 0236 PowerEdge R610 USB UHCI Controller
1028 0237 PowerEdge T610 USB UHCI Controller
1028 023c PowerEdge R200 onboard UHCI
1028 0287 PowerEdge M610 onboard UHCI
1028 029c PowerEdge M710 USB UHCI Controller
1028 2011 Optiplex 755
103c 2a6f Asus IPIBL-LB Motherboard
1043 8277 P5K PRO Motherboard: 82801IR [ICH9R]
1462 7345 MS-7345 Motherboard: Intel 82801I/IR [ICH9/ICH9R]
1462 7360 G33/P35 Neo
17aa 20f0 ThinkPad T400
1af4 1100 QEMU Virtual Machine
8086 5044 Desktop Board DP35DP
e4bf cc4d CCM-BOOGIE
2935 82801I (ICH9 Family) USB UHCI Controller #2
1028 020d Inspiron 530
1028 020f PowerEdge R300 onboard UHCI
1028 0210 PowerEdge T300 onboard UHCI
1028 0211 Optiplex 755
1028 0235 PowerEdge R710 USB UHCI Controller
1028 0236 PowerEdge R610
USB UHCI Controller
1028 0237 PowerEdge T610 USB UHCI Controller
1028 023c PowerEdge R200 onboard UHCI
1028 0287 PowerEdge M610 onboard UHCI
1028 029c PowerEdge M710 USB UHCI Controller
103c 2a6f Asus IPIBL-LB Motherboard
1043 8277 P5K PRO Motherboard: 82801IR [ICH9R]
1462 7345 MS-7345 Motherboard: Intel 82801I/IR [ICH9/ICH9R]
1462 7360 G33/P35 Neo
17aa 20f0 ThinkPad T400
1af4 1100 QEMU Virtual Machine
8086 5044 Desktop Board DP35DP
e4bf cc4d CCM-BOOGIE
2936 82801I (ICH9 Family) USB UHCI Controller #3
1028 020d Inspiron 530
1028 020f PowerEdge R300 onboard UHCI
1028 0210 PowerEdge T300 onboard UHCI
1028 0211 Optiplex 755
1028 0237 PowerEdge T610 USB UHCI Controller
1028 023c PowerEdge R200 onboard UHCI
1028 0287 PowerEdge M610 onboard UHCI

1028 029c PowerEdge M710 USB UHCI Controller
103c 2a6f Asus IPIBL-LB Motherboard
1043 8277 P5K PRO Motherboard: 82801IR [ICH9R]
1462 7345 MS-7345 Motherboard: Intel 82801I/IR [ICH9/ICH9R]
1462
7360 G33/P35 Neo
17aa 20f0 ThinkPad T400
1af4 1100 QEMU Virtual Machine
8086 5044 Desktop Board DP35DP
e4bf cc4d CCM-BOOGIE
2937 82801I (ICH9 Family) USB UHCI Controller #4
1028 020d Inspiron 530
1028 0211 Optiplex 755
1028 0235 PowerEdge R710 USB UHCI Controller
1028 0236 PowerEdge R610 USB UHCI Controller
1028 0237 PowerEdge T610 USB UHCI Controller
1028 0287 PowerEdge M610 onboard UHCI
1028 029c PowerEdge M710 USB UHCI Controller
1028 2011 Optiplex 755
103c 2a6f Asus IPIBL-LB Motherboard
1043 8277 P5K PRO Motherboard: 82801IR [ICH9R]
1462 7345 MS-7345 Motherboard: Intel 82801I/IR [ICH9/ICH9R]
1462 7360 G33/P35 Neo
17aa 20f0 ThinkPad T400
1af4 1100 QEMU Virtual Machine
8086 2937 Optiplex 755
8086 2942 828011 (ICH9 Family) USB UHCI Controller
8086 5044 Desktop Board DP35DP
e4bf cc4d CCM-BOOGIE
2938 82801I (ICH9 Family) USB UHCI Controller #5
1028 020d Inspiron 530
1028 0211 Optiplex 755
1028
0235 PowerEdge R710 USB UHCI Controller
1028 0236 PowerEdge R610 USB UHCI Controller
1028 0237 PowerEdge T610 USB UHCI Controller
1028 0287 PowerEdge M610 onboard UHCI
1028 029c PowerEdge M710 USB UHCI Controller
103c 2a6f Asus IPIBL-LB Motherboard
1043 8277 P5K PRO Motherboard: 82801IR [ICH9R]
1462 7345 MS-7345 Motherboard: Intel 82801I/IR [ICH9/ICH9R]
1462 7360 G33/P35 Neo
17aa 20f0 ThinkPad T400
1af4 1100 QEMU Virtual Machine
8086 2938 Optiplex 755
8086 5044 Desktop Board DP35DP
e4bf cc4d CCM-BOOGIE
2939 82801I (ICH9 Family) USB UHCI Controller #6

1028 020d Inspiron 530
1028 0210 PowerEdge T300 onboard UHCI
1028 0237 PowerEdge T610 USB UHCI Controller
103c 2a6f Asus IPIBL-LB Motherboard
1043 8277 P5K PRO Motherboard: 82801IR [ICH9R]
1462 7345 MS-7345 Motherboard: Intel 82801I/IR [ICH9/ICH9R]
1462 7360 G33/P35 Neo
17aa 20f0 ThinkPad T400
1af4 1100 QEMU Virtual Machine
8086 5044 Desktop Board DP35DP
e4bf cc4d
CCM-BOOGIE
293a 82801I (ICH9 Family) USB2 EHCI Controller #1
1028 020d Inspiron 530
1028 020f PowerEdge R300 onboard EHCI
1028 0210 PowerEdge T300 onboard EHCI
1028 0211 Optiplex 755
1028 0235 PowerEdge R710 USB EHCI Controller
1028 0236 PowerEdge R610 USB EHCI Controller
1028 0237 PowerEdge T610 USB EHCI Controller
1028 023c PowerEdge R200 onboard EHCI
1028 0287 PowerEdge M610 onboard EHCI
1028 029c PowerEdge M710 USB EHCI Controller
103c 2a6f Asus IPIBL-LB Motherboard
1043 8277 P5K PRO Motherboard: 82801IR [ICH9R]
1462 7345 MS-7345 Motherboard: Intel 82801I/IR [ICH9/ICH9R]
1462 7360 G33/P35 Neo
17aa 20f1 ThinkPad T400
1af4 1100 QEMU Virtual Machine
8086 5044 Desktop Board DP35DP
e4bf cc4d CCM-BOOGIE
293c 82801I (ICH9 Family) USB2 EHCI Controller #2
1028 020d Inspiron 530
1028 0211 Optiplex 755
1028 0235 PowerEdge R710 USB EHCI Controller
1028 0236 PowerEdge R610 USB EHCI Controller
1028 0237 PowerEdge T610 USB
EHCI Controller
1028 0287 PowerEdge M610 onboard EHCI
1028 029c PowerEdge M710 USB EHCI Controller
103c 2a6f Asus IPIBL-LB Motherboard
1043 8277 P5K PRO Motherboard: 82801IR [ICH9R]
1462 7345 MS-7345 Motherboard: Intel 82801I/IR [ICH9/ICH9R]
1462 7360 G33/P35 Neo
17aa 20f1 ThinkPad T400
1af4 1100 QEMU Virtual Machine
8086 293c Optiplex 755
8086 5044 Desktop Board DP35DP

e4bf cc4d CCM-BOOGIE
293e 82801I (ICH9 Family) HD Audio Controller
1028 020d Inspiron 530
1028 0211 Optiplex 755
103c 2a6f Asus IPIBL-LB Motherboard
103c 3628 dv6-1190en
1043 829f P5K PRO Motherboard: 82801IR [ICH9R]
1462 735a MS-7345 Motherboard: Intel 82801I/IR [ICH9/ICH9R]
1462 7360 G33/P35 Neo
17aa 20f2 ThinkPad T400
1af4 1100 QEMU Virtual Machine
8086 293e Optiplex 755
8086 2940 Optiplex 755
e4bf cc4d CCM-BOOGIE
2940 82801I (ICH9 Family) PCI Express Port 1
1028 020d Inspiron 530
1028 0211 Optiplex 755
103c 2a6f Asus IPIBL-LB Motherboard
1043
8277 P5K PRO Motherboard: 82801IR [ICH9R]
1462 7345 MS-7345 Motherboard: Intel 82801I/IR [ICH9/ICH9R]
8086 2940 Optiplex 755
2942 82801I (ICH9 Family) PCI Express Port 2
1028 020d Inspiron 530
2944 82801I (ICH9 Family) PCI Express Port 3
1028 020d Inspiron 530
103c 2a6f Asus IPIBL-LB Motherboard
2946 82801I (ICH9 Family) PCI Express Port 4
1028 020d Inspiron 530
2948 82801I (ICH9 Family) PCI Express Port 5
1028 020d Inspiron 530
1043 8277 P5K PRO Motherboard: 82801IR [ICH9R]
1462 7345 MS-7345 Motherboard: Intel 82801I/IR [ICH9/ICH9R]
294a 82801I (ICH9 Family) PCI Express Port 6
1028 020d Inspiron 530
1043 8277 P5K PRO Motherboard: 82801IR [ICH9R]
1462 7345 MS-7345 Motherboard: Intel 82801I/IR [ICH9/ICH9R]
294c 82566DC-2 Gigabit Network Connection
17aa 302e 82566DM-2 Gigabit Network Connection
2970 82946GZ/PL/GL Memory Controller Hub
1043 823b P5B-MX/WiFi-AP
2971 82946GZ/PL/GL PCI Express Root Port
2972 82946GZ/GL Integrated
Graphics Controller
1043 823b P5B-MX/WiFi-AP
2973 82946GZ/GL Integrated Graphics Controller
2974 82946GZ/GL HECI Controller
2975 82946GZ/GL HECI Controller

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2976  82946GZ/GL PT IDER Controller
2977  82946GZ/GL KT Controller
2980  82G35 Express DRAM Controller
2981  82G35 Express PCI Express Root Port
2982  82G35 Express Integrated Graphics Controller
2983  82G35 Express Integrated Graphics Controller
2984  82G35 Express HECI Controller
2990  82Q963/Q965 Memory Controller Hub
 1028 01da  OptiPlex 745
2991  82Q963/Q965 PCI Express Root Port
2992  82Q963/Q965 Integrated Graphics Controller
2993  82Q963/Q965 Integrated Graphics Controller
2994  82Q963/Q965 HECI Controller
2995  82Q963/Q965 HECI Controller
2996  82Q963/Q965 PT IDER Controller
2997  82Q963/Q965 KT Controller
29a0  82P965/G965 Memory Controller Hub
 1043 81ea  P5B
 1462 7276  MS-7276 [G965MDH]
29a1  82P965/G965 PCI Express Root Port
29a2  82G965 Integrated Graphics Controller
 1462 7276
 MS-7276 [G965MDH]
29a3  82G965 Integrated Graphics Controller
29a4  82P965/G965 HECI Controller
29a5  82P965/G965 HECI Controller
29a6  82P965/G965 PT IDER Controller
29a7  82P965/G965 KT Controller
29b0  82Q35 Express DRAM Controller
 1028 0211  OptiPlex 755
29b1  82Q35 Express PCI Express Root Port
 1028 0211  OptiPlex 755
29b2  82Q35 Express Integrated Graphics Controller
 1028 0211  OptiPlex 755
29b3  82Q35 Express Integrated Graphics Controller
 1028 0211  OptiPlex 755
29b4  82Q35 Express MEI Controller
 1028 0211  OptiPlex 755
29b5  82Q35 Express MEI Controller
29b6  82Q35 Express PT IDER Controller
 1028 0211  OptiPlex 755
29b7  82Q35 Express Serial KT Controller
 1028 0211  OptiPlex 755
29c0  82G33/G31/P35/P31 Express DRAM Controller
 1028 020d  Inspiron 530
 103c 2a6f  Asus IPIBL-LB Motherboard
 1043 8276  P5K PRO Motherboard: Intel 82P35 Northbridge
 1043 82b0  P5KPL-VM Motherboard
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1462 7345 MS-7345 Motherboard: Intel 82G33/P35 Northbridge
1462
7360 G33/P35 Neo
1af4 1100 QEMU Virtual Machine
8086 5044 Desktop Board DP35DP
29c1 82G33/G31/P35/P31 Express PCI Express Root Port
1028 020d Inspiron 530
1043 8276 P5K PRO Motherboard: Intel 82P35 Northbridge
29c2 82G33/G31 Express Integrated Graphics Controller
1028 020d Inspiron 530
1043 82b0 P5KPL-VM Motherboard
29c3 82G33/G31 Express Integrated Graphics Controller
1028 020d Inspiron 530
1043 82b0 P5KPL-VM Motherboard
29c4 82G33/G31/P35/P31 Express MEI Controller
8086 5044 Desktop Board DP35DP
29c5 82G33/G31/P35/P31 Express MEI Controller
29c6 82G33/G31/P35/P31 Express PT IDER Controller
29c7 82G33/G31/P35/P31 Express Serial KT Controller
29cf Virtual HECI Controller
29d0 82Q33 Express DRAM Controller
29d1 82Q33 Express PCI Express Root Port
29d2 82Q33 Express Integrated Graphics Controller
29d3 82Q33 Express Integrated Graphics Controller
29d4 82Q33 Express MEI Controller
29d5 82Q33 Express MEI Controller
29d6 82Q33 Express
PT IDER Controller
29d7 82Q33 Express Serial KT Controller
29e0 82X38/X48 Express DRAM Controller
29e1 82X38/X48 Express Host-Primary PCI Express Bridge
29e4 82X38/X48 Express MEI Controller
29e5 82X38/X48 Express MEI Controller
29e6 82X38/X48 Express PT IDER Controller
29e7 82X38/X48 Express Serial KT Controller
29e9 82X38/X48 Express Host-Secondary PCI Express Bridge
29f0 3200/3210 Chipset DRAM Controller
29f1 3200/3210 Chipset Host-Primary PCI Express Bridge
29f4 3200/3210 Chipset MEI Controller
29f5 3200/3210 Chipset MEI Controller
29f6 3200/3210 Chipset PT IDER Controller
29f7 3200/3210 Chipset Serial KT Controller
29f9 3210 Chipset Host-Secondary PCI Express Bridge
2a00 Mobile PM965/GM965/GL960 Memory Controller Hub
1025 0121 Aspire 5920G
1028 01f3 Inspiron 1420
1028 022f Inspiron 1525
103c 30c0 Compaq 6710b

103c 30c1 Compaq 6910p
103c 30cc Pavilion dv6700
103c 30d9 Presario C700
1043 1017 X58LE
104d 9005 Vaio VGN-FZ260E
104d
902d VAIO VGN-NR120E
17aa 20b1 ThinkPad T61
17aa 20b3 ThinkPad T61/R61
17c0 4082 Medion WIM 2210 Notebook PC [MD96850]
e4bf cc47 CCG-RUMBA
2a01 Mobile PM965/GM965/GL960 PCI Express Root Port
2a02 Mobile GM965/GL960 Integrated Graphics Controller (primary)
1028 01f3 Inspiron 1420
1028 01f9 Latitude D630
1028 022f Inspiron 1525
103c 30c0 Compaq 6710b
103c 30d9 Presario C700
1043 14e2 X58LE
104d 902d VAIO VGN-NR120E
17aa 20b5 GM965 [X3100] on ThinkPad T61/R61
17c0 4082 GM965 on Medion WIM 2210 Notebook PC [MD96850]
e4bf cc47 CCG-RUMBA
2a03 Mobile GM965/GL960 Integrated Graphics Controller (secondary)
1028 01f3 Inspiron 1420
1028 022f Inspiron 1525
103c 30c0 Compaq 6710b
103c 30d9 Presario C700
1043 14e2 X58LE
104d 902d VAIO VGN-NR120E
17aa 20b5 GM965 [X3100] on ThinkPad T61/R61
17c0 4082 GM965 on Medion WIM 2210 Notebook PC [MD96850]
e4bf cc47 CCG-RUMBA
2a04 Mobile PM965/GM965 MEI Controller
103c 30c1
Compaq 6910p
2a05 Mobile PM965/GM965 MEI Controller
2a06 Mobile PM965/GM965 PT IDER Controller
103c 30c1 Compaq 6910p
2a07 Mobile PM965/GM965 KT Controller
103c 30c1 Compaq 6910p
2a10 Mobile GME965/GLE960 Memory Controller Hub
e4bf cc47 CCG-RUMBA
2a11 Mobile GME965/GLE960 PCI Express Root Port
2a12 Mobile GME965/GLE960 Integrated Graphics Controller
e4bf cc47 CCG-RUMBA
2a13 Mobile GME965/GLE960 Integrated Graphics Controller
e4bf cc47 CCG-RUMBA

2a14 Mobile GME965/GLE960 MEI Controller
2a15 Mobile GME965/GLE960 MEI Controller
2a16 Mobile GME965/GLE960 PT IDER Controller
2a17 Mobile GME965/GLE960 KT Controller
2a40 Mobile 4 Series Chipset Memory Controller Hub
 17aa 20e0 ThinkPad T400
 e4bf cc4d CCM-BOOGIE
2a41 Mobile 4 Series Chipset PCI Express Graphics Port
 e4bf cc4d CCM-BOOGIE
2a42 Mobile 4 Series Chipset Integrated Graphics Controller
 17aa 2112 ThinkPad T400
 e4bf cc4d CCM-BOOGIE
2a43 Mobile 4 Series Chipset Integrated Graphics
Controller
 17aa 2112 ThinkPad T400
 e4bf cc4d CCM-BOOGIE
2a44 Mobile 4 Series Chipset MEI Controller
 17aa 20e6 ThinkPad T400
2a45 Mobile 4 Series Chipset MEI Controller
2a46 Mobile 4 Series Chipset PT IDER Controller
2a47 Mobile 4 Series Chipset AMT SOL Redirection
2a50 Cantiga MEI Controller
2a51 Cantiga MEI Controller
2a52 Cantiga PT IDER Controller
2a53 Cantiga AMT SOL Redirection
2b00 Xeon Processor E7 Product Family System Configuration Controller 1
2b02 Xeon Processor E7 Product Family System Configuration Controller 2
2b04 Xeon Processor E7 Product Family Power Controller
2b08 Xeon Processor E7 Product Family Caching Agent 0
2b0c Xeon Processor E7 Product Family Caching Agent 1
2b10 Xeon Processor E7 Product Family QPI Home Agent 0
2b13 Xeon Processor E7 Product Family Memory Controller 0c
2b14 Xeon Processor E7 Product Family Memory Controller 0a
2b16 Xeon Processor E7 Product Family Memory Controller 0b
2b18 Xeon Processor E7 Product
Family QPI Home Agent 1
2b1b Xeon Processor E7 Product Family Memory Controller 1c
2b1c Xeon Processor E7 Product Family Memory Controller 1a
2b1e Xeon Processor E7 Product Family Memory Controller 1b
2b20 Xeon Processor E7 Product Family Last Level Cache Coherence Engine 0
2b22 Xeon Processor E7 Product Family System Configuration Controller 3
2b24 Xeon Processor E7 Product Family Last Level Cache Coherence Engine 1
2b28 Xeon Processor E7 Product Family Last Level Cache Coherence Engine 2
2b2a Xeon Processor E7 Product Family System Configuration Controller 4
2b2c Xeon Processor E7 Product Family Last Level Cache Coherence Engine 3
2b30 Xeon Processor E7 Product Family Last Level Cache Coherence Engine 4
2b34 Xeon Processor E7 Product Family Last Level Cache Coherence Engine 5
2b38 Xeon Processor E7 Product Family Last Level Cache Coherence Engine 6

2b3c Xeon Processor E7 Product Family Last Level Cache Coherence Engine 7
2b40 Xeon Processor E7 Product
Family QPI Router Port 0-1
2b42 Xeon Processor E7 Product Family QPI Router Port 2-3
2b44 Xeon Processor E7 Product Family QPI Router Port 4-5
2b46 Xeon Processor E7 Product Family QPI Router Port 6-7
2b48 Xeon Processor E7 Product Family Test and Debug 0
2b4c Xeon Processor E7 Product Family Test and Debug 1
2b50 Xeon Processor E7 Product Family QPI Physical Port 0: REUT control/status
2b52 Xeon Processor E7 Product Family QPI Physical Port 0: Misc. control/status
2b54 Xeon Processor E7 Product Family QPI Physical Port 1: REUT control/status
2b56 Xeon Processor E7 Product Family QPI Physical Port 1: Misc. control/status
2b58 Xeon Processor E7 Product Family QPI Physical Port 2: REUT control/status
2b5a Xeon Processor E7 Product Family QPI Physical Port 2: Misc. control/status
2b5c Xeon Processor E7 Product Family QPI Physical Port 3: REUT control/status
2b5e Xeon Processor E7 Product Family QPI Physical Port 3: Misc. control/status
2b60 Xeon Processor E7 Product
Family SMI Physical Port 0: REUT control/status
2b62 Xeon Processor E7 Product Family SMI Physical Port 0: Misc control/status
2b64 Xeon Processor E7 Product Family SMI Physical Port 1: REUT control/status
2b66 Xeon Processor E7 Product Family SMI Physical Port 1: Misc control/status
2b68 Xeon Processor E7 Product Family Last Level Cache Coherence Engine 8
2b6c Xeon Processor E7 Product Family Last Level Cache Coherence Engine 9
2c01 Xeon 5500/Core i7 QuickPath Architecture System Address Decoder
2c10 Xeon 5500/Core i7 QPI Link 0
2c11 Xeon 5500/Core i7 QPI Physical 0
2c14 Xeon 5500/Core i7 QPI Link 1
2c15 Xeon 5500/Core i7 QPI Physical 1
2c18 Xeon 5500/Core i7 Integrated Memory Controller
2c19 Xeon 5500/Core i7 Integrated Memory Controller Target Address Decoder
2c1a Xeon 5500/Core i7 Integrated Memory Controller RAS Registers
2c1c Xeon 5500/Core i7 Integrated Memory Controller Test Registers
2c20 Xeon 5500/Core i7 Integrated Memory Controller Channel
0 Control Registers
2c21 Xeon 5500/Core i7 Integrated Memory Controller Channel 0 Address Registers
2c22 Xeon 5500/Core i7 Integrated Memory Controller Channel 0 Rank Registers
2c23 Xeon 5500/Core i7 Integrated Memory Controller Channel 0 Thermal Control Registers
2c28 Xeon 5500/Core i7 Integrated Memory Controller Channel 1 Control Registers
2c29 Xeon 5500/Core i7 Integrated Memory Controller Channel 1 Address Registers
2c2a Xeon 5500/Core i7 Integrated Memory Controller Channel 1 Rank Registers
2c2b Xeon 5500/Core i7 Integrated Memory Controller Channel 1 Thermal Control Registers
2c30 Xeon 5500/Core i7 Integrated Memory Controller Channel 2 Control Registers
2c31 Xeon 5500/Core i7 Integrated Memory Controller Channel 2 Address Registers
2c32 Xeon 5500/Core i7 Integrated Memory Controller Channel 2 Rank Registers
2c33 Xeon 5500/Core i7 Integrated Memory Controller Channel 2 Thermal Control Registers
2c40 Xeon 5500/Core i7 QuickPath Architecture Generic Non-Core
Registers
2c41 Xeon 5500/Core i7 QuickPath Architecture Generic Non-Core Registers

2c50 Core Processor QuickPath Architecture Generic Non-Core Registers
2c51 Core Processor QuickPath Architecture Generic Non-Core Registers
2c52 Core Processor QuickPath Architecture Generic Non-Core Registers
2c53 Core Processor QuickPath Architecture Generic Non-Core Registers
2c54 Core Processor QuickPath Architecture Generic Non-Core Registers
2c55 Core Processor QuickPath Architecture Generic Non-Core Registers
2c56 Core Processor QuickPath Architecture Generic Non-Core Registers
2c57 Core Processor QuickPath Architecture Generic Non-Core Registers
2c58 Xeon C5500/C3500 QPI Generic Non-core Registers
2c59 Xeon C5500/C3500 QPI Generic Non-core Registers
2c5a Xeon C5500/C3500 QPI Generic Non-core Registers
2c5b Xeon C5500/C3500 QPI Generic Non-core Registers
2c5c Xeon C5500/C3500 QPI Generic Non-core Registers
2c5d Xeon C5500/C3500 QPI Generic Non-core Registers
2c5e
Xeon C5500/C3500 QPI Generic Non-core Registers
2c5f Xeon C5500/C3500 QPI Generic Non-core Registers
2c61 Core Processor QuickPath Architecture Generic Non-core Registers
2c62 Core Processor QuickPath Architecture Generic Non-core Registers
2c70 Xeon 5600 Series QuickPath Architecture Generic Non-core Registers
2c81 Core Processor QuickPath Architecture System Address Decoder
2c90 Core Processor QPI Link 0
2c91 Core Processor QPI Physical 0
2c98 Core Processor Integrated Memory Controller
2c99 Core Processor Integrated Memory Controller Target Address Decoder
2c9a Core Processor Integrated Memory Controller Test Registers
2c9c Core Processor Integrated Memory Controller Test Registers
2ca0 Core Processor Integrated Memory Controller Channel 0 Control Registers
2ca1 Core Processor Integrated Memory Controller Channel 0 Address Registers
2ca2 Core Processor Integrated Memory Controller Channel 0 Rank Registers
2ca3 Core Processor Integrated Memory Controller
Channel 0 Thermal Control Registers
2ca8 Core Processor Integrated Memory Controller Channel 1 Control Registers
2ca9 Core Processor Integrated Memory Controller Channel 1 Address Registers
2caa Core Processor Integrated Memory Controller Channel 1 Rank Registers
2cab Core Processor Integrated Memory Controller Channel 1 Thermal Control Registers
2cc1 Xeon C5500/C3500 QPI System Address Decoder
2cd0 Xeon C5500/C3500 QPI Link 0
2cd1 Xeon C5500/C3500 QPI Physical 0
2cd4 Xeon C5500/C3500 QPI Link 1
2cd5 Xeon C5500/C3500 QPI Physical 1
2cd8 Xeon C5500/C3500 Integrated Memory Controller Registers
2cd9 Xeon C5500/C3500 Integrated Memory Controller Target Address Decoder
2cda Xeon C5500/C3500 Integrated Memory Controller RAS Registers
2cdc Xeon C5500/C3500 Integrated Memory Controller Test Registers
2ce0 Xeon C5500/C3500 Integrated Memory Controller Channel 0 Control
2ce1 Xeon C5500/C3500 Integrated Memory Controller Channel 0 Address
2ce2 Xeon C5500/C3500 Integrated

Memory Controller Channel 0 Rank
2ce3 Xeon C5500/C3500 Integrated Memory Controller Channel 0 Thermal Control
2ce8 Xeon C5500/C3500 Integrated Memory Controller Channel 1 Control
2ce9 Xeon C5500/C3500 Integrated Memory Controller Channel 1 Address
2cea Xeon C5500/C3500 Integrated Memory Controller Channel 1 Rank
2ceb Xeon C5500/C3500 Integrated Memory Controller Channel 1 Thermal Control
2cf0 Xeon C5500/C3500 Integrated Memory Controller Channel 2 Control
2cf1 Xeon C5500/C3500 Integrated Memory Controller Channel 2 Address
2cf2 Xeon C5500/C3500 Integrated Memory Controller Channel 2 Rank
2cf3 Xeon C5500/C3500 Integrated Memory Controller Channel 2 Thermal Control
2d01 Core Processor QuickPath Architecture System Address Decoder
2d10 Core Processor QPI Link 0
2d11 1st Generation Core i3/5/7 Processor QPI Physical 0
2d12 1st Generation Core i3/5/7 Processor Reserved
2d13 1st Generation Core i3/5/7 Processor Reserved
2d81 Xeon 5600 Series QuickPath
Architecture System Address Decoder
2d90 Xeon 5600 Series QPI Link 0
2d91 Xeon 5600 Series QPI Physical 0
2d92 Xeon 5600 Series Mirror Port Link 0
2d93 Xeon 5600 Series Mirror Port Link 1
2d94 Xeon 5600 Series QPI Link 1
2d95 Xeon 5600 Series QPI Physical 1
2d98 Xeon 5600 Series Integrated Memory Controller Registers
2d99 Xeon 5600 Series Integrated Memory Controller Target Address Decoder
2d9a Xeon 5600 Series Integrated Memory Controller RAS Registers
2d9c Xeon 5600 Series Integrated Memory Controller Test Registers
2da0 Xeon 5600 Series Integrated Memory Controller Channel 0 Control
2da1 Xeon 5600 Series Integrated Memory Controller Channel 0 Address
2da2 Xeon 5600 Series Integrated Memory Controller Channel 0 Rank
2da3 Xeon 5600 Series Integrated Memory Controller Channel 0 Thermal Control
2da8 Xeon 5600 Series Integrated Memory Controller Channel 1 Control
2da9 Xeon 5600 Series Integrated Memory Controller Channel 1 Address
2daa Xeon 5600 Series Integrated
Memory Controller Channel 1 Rank
2dab Xeon 5600 Series Integrated Memory Controller Channel 1 Thermal Control
2db0 Xeon 5600 Series Integrated Memory Controller Channel 2 Control
2db1 Xeon 5600 Series Integrated Memory Controller Channel 2 Address
2db2 Xeon 5600 Series Integrated Memory Controller Channel 2 Rank
2db3 Xeon 5600 Series Integrated Memory Controller Channel 2 Thermal Control
2e00 4 Series Chipset DRAM Controller
2e01 4 Series Chipset PCI Express Root Port
2e02 4 Series Chipset Integrated Graphics Controller
2e03 4 Series Chipset Integrated Graphics Controller
2e04 4 Series Chipset HECI Controller
2e05 4 Series Chipset HECI Controller
2e06 4 Series Chipset PT IDER Controller
2e07 4 Series Chipset Serial KT Controller

2e10 4 Series Chipset DRAM Controller
2e11 4 Series Chipset PCI Express Root Port
2e12 4 Series Chipset Integrated Graphics Controller
 17aa 3048 ThinkCentre M6258
2e13 4 Series Chipset Integrated Graphics Controller
2e14
 4 Series Chipset HECI Controller
2e15 4 Series Chipset HECI Controller
2e16 4 Series Chipset PT IDER Controller
2e17 4 Series Chipset Serial KT Controller
2e20 4 Series Chipset DRAM Controller
 1028 0283 Vostro 220
 1043 82d3 P5Q Deluxe Motherboard
 1458 5000 GA-EP45-DS5/GA-EG45M-DS2H Motherboard
2e21 4 Series Chipset PCI Express Root Port
 1043 82d3 P5Q Deluxe Motherboard
 1458 5000 GA-EP45-DS5 Motherboard
2e22 4 Series Chipset Integrated Graphics Controller
 1458 d000 GA-EG45M-DS2H Mainboard
2e23 4 Series Chipset Integrated Graphics Controller
 1458 d000 GA-EG45M-DS2H Mainboard
2e24 4 Series Chipset HECI Controller
2e25 4 Series Chipset HECI Controller
2e26 4 Series Chipset PT IDER Controller
2e27 4 Series Chipset Serial KT Controller
2e29 4 Series Chipset PCI Express Root Port
2e30 4 Series Chipset DRAM Controller
 103c 2a8c Compaq 500B Microtower
2e31 4 Series Chipset PCI Express Root Port
2e32 4 Series Chipset Integrated Graphics
Controller
 103c 2a8c Compaq 500B Microtower
2e33 4 Series Chipset Integrated Graphics Controller
2e34 4 Series Chipset HECI Controller
2e35 4 Series Chipset HECI Controller
2e36 4 Series Chipset PT IDER Controller
2e37 4 Series Chipset Serial KT Controller
2e40 4 Series Chipset DRAM Controller
2e41 4 Series Chipset PCI Express Root Port
2e42 4 Series Chipset Integrated Graphics Controller
2e43 4 Series Chipset Integrated Graphics Controller
2e44 4 Series Chipset HECI Controller
2e45 4 Series Chipset HECI Controller
2e46 4 Series Chipset PT IDER Controller
2e47 4 Series Chipset Serial KT Controller
2e50 CE Media Processor CE3100
2e52 CE Media Processor Clock and Reset Controller
2e58 CE Media Processor Interrupt Controller

2e5a CE Media Processor CE3100 A/V Bridge
2e5b Graphics Media Accelerator 500 Graphics
2e5c CE Media Processor Video Decoder
2e5d CE Media Processor Transport Stream Interface
2e5e CE Media Processor Transport Stream Processor
0
2e5f CE Media Processor Audio DSP
2e60 CE Media Processor Audio Interfaces
2e61 CE Media Processor Video Display Controller
2e62 CE Media Processor Video Processing Unit
2e63 CE Media Processor HDMI Tx Interface
2e65 CE Media Processor Expansion Bus Interface
2e66 CE Media Processor UART
2e67 CE Media Processor General Purpose I/Os
2e68 CE Media Processor I2C Interface
2e69 CE Media Processor Smart Card Interface
2e6a CE Media Processor SPI Master Interface
2e6e CE Media Processor Gigabit Ethernet Controller
2e6f CE Media Processor Media Timing Unit
2e70 CE Media Processor USB
2e71 CE Media Processor SATA
2e73 CE Media Processor CE3100 PCI Express
2e90 4 Series Chipset DRAM Controller
2e91 4 Series Chipset PCI Express Root Port
2e92 4 Series Chipset Integrated Graphics Controller
2e93 4 Series Chipset Integrated Graphics Controller
2e94 4 Series Chipset HECI Controller
2e95 4 Series Chipset HECI Controller
2e96 4 Series Chipset PT
IDER Controller
2f00 Xeon E7 v3/Xeon E5 v3/Core i7 DMI2
2f01 Xeon E7 v3/Xeon E5 v3/Core i7 PCI Express Root Port 0
2f02 Xeon E7 v3/Xeon E5 v3/Core i7 PCI Express Root Port 1
2f03 Xeon E7 v3/Xeon E5 v3/Core i7 PCI Express Root Port 1
2f04 Xeon E7 v3/Xeon E5 v3/Core i7 PCI Express Root Port 2
2f05 Xeon E7 v3/Xeon E5 v3/Core i7 PCI Express Root Port 2
2f06 Xeon E7 v3/Xeon E5 v3/Core i7 PCI Express Root Port 2
2f07 Xeon E7 v3/Xeon E5 v3/Core i7 PCI Express Root Port 2
2f08 Xeon E7 v3/Xeon E5 v3/Core i7 PCI Express Root Port 3
2f09 Xeon E7 v3/Xeon E5 v3/Core i7 PCI Express Root Port 3
2f0a Xeon E7 v3/Xeon E5 v3/Core i7 PCI Express Root Port 3
2f0b Xeon E7 v3/Xeon E5 v3/Core i7 PCI Express Root Port 3
2f0d Haswell Xeon Non-Transparent Bridge (Back-to-back)
2f0e Haswell Xeon Non-Transparent Bridge (Primary Side)
2f0f Haswell Xeon Non-Transparent Bridge (Secondary Side)
2f10 Xeon E7 v3/Xeon E5 v3/Core i7 IIO Debug
2f11 Xeon E7 v3/Xeon E5 v3/Core i7 IIO Debug
2f12

Xeon E7 v3/Xeon E5 v3/Core i7 IIO Debug
2f13 Xeon E7 v3/Xeon E5 v3/Core i7 IIO Debug
2f14 Xeon E7 v3/Xeon E5 v3/Core i7 IIO Debug
2f15 Xeon E7 v3/Xeon E5 v3/Core i7 IIO Debug
2f16 Xeon E7 v3/Xeon E5 v3/Core i7 IIO Debug
2f17 Xeon E7 v3/Xeon E5 v3/Core i7 IIO Debug
2f18 Xeon E7 v3/Xeon E5 v3/Core i7 IIO Debug
2f19 Xeon E7 v3/Xeon E5 v3/Core i7 IIO Debug
2f1a Xeon E7 v3/Xeon E5 v3/Core i7 IIO Debug
2f1b Xeon E7 v3/Xeon E5 v3/Core i7 IIO Debug
2f1c Xeon E7 v3/Xeon E5 v3/Core i7 IIO Debug
2f1d Xeon E7 v3/Xeon E5 v3/Core i7 PCIe Ring Interface
2f1e Xeon E7 v3/Xeon E5 v3/Core i7 Scratchpad & Semaphore Registers
2f1f Xeon E7 v3/Xeon E5 v3/Core i7 Scratchpad & Semaphore Registers
2f20 Xeon E7 v3/Xeon E5 v3/Core i7 DMA Channel 0
2f21 Xeon E7 v3/Xeon E5 v3/Core i7 DMA Channel 1
2f22 Xeon E7 v3/Xeon E5 v3/Core i7 DMA Channel 2
2f23 Xeon E7 v3/Xeon E5 v3/Core i7 DMA Channel 3
2f24 Xeon E7 v3/Xeon E5 v3/Core i7 DMA Channel 4
2f25 Xeon E7 v3/Xeon E5 v3/Core
i7 DMA Channel 5
2f26 Xeon E7 v3/Xeon E5 v3/Core i7 DMA Channel 6
2f27 Xeon E7 v3/Xeon E5 v3/Core i7 DMA Channel 7
2f28 Xeon E7 v3/Xeon E5 v3/Core i7 Address Map, VTd_Misc, System Management
2f29 Xeon E7 v3/Xeon E5 v3/Core i7 Hot Plug
2f2a Xeon E7 v3/Xeon E5 v3/Core i7 RAS, Control Status and Global Errors
2f2c Xeon E7 v3/Xeon E5 v3/Core i7 I/O APIC
2f2e Xeon E7 v3/Xeon E5 v3/Core i7 RAID 5/6
2f2f Xeon E7 v3/Xeon E5 v3/Core i7 RAID 5/6
2f30 Xeon E7 v3/Xeon E5 v3/Core i7 Home Agent 0
2f32 Xeon E7 v3/Xeon E5 v3/Core i7 QPI Link 0
2f33 Xeon E7 v3/Xeon E5 v3/Core i7 QPI Link 1
2f34 Xeon E7 v3/Xeon E5 v3/Core i7 PCIe Ring Interface
2f36 Xeon E7 v3/Xeon E5 v3/Core i7 R3 QPI Link 0 & 1 Monitoring
2f37 Xeon E7 v3/Xeon E5 v3/Core i7 R3 QPI Link 0 & 1 Monitoring
2f38 Xeon E7 v3/Xeon E5 v3/Core i7 Home Agent 1
2f39 Xeon E7 v3/Xeon E5 v3/Core i7 I/O Performance Monitoring
2f3a Xeon E7 v3/Xeon E5 v3/Core i7 QPI Link 2
2f3e Xeon E7 v3/Xeon E5 v3/Core i7 R3 QPI
Link 2 Monitoring
2f3f Xeon E7 v3/Xeon E5 v3/Core i7 R3 QPI Link 2 Monitoring
2f40 Xeon E7 v3/Xeon E5 v3/Core i7 QPI Link 2
2f41 Xeon E7 v3/Xeon E5 v3/Core i7 R3 QPI Link 2 Monitoring
2f43 Xeon E7 v3/Xeon E5 v3/Core i7 QPI Link 2
2f45 Xeon E7 v3/Xeon E5 v3/Core i7 QPI Link 2 Debug
2f46 Xeon E7 v3/Xeon E5 v3/Core i7 QPI Link 2 Debug
2f47 Xeon E7 v3/Xeon E5 v3/Core i7 QPI Link 2 Debug
2f60 Xeon E7 v3/Xeon E5 v3/Core i7 Home Agent 1

2f68 Xeon E7 v3/Xeon E5 v3/Core i7 Integrated Memory Controller 1 Target Address, Thermal & RAS Registers
2f6a Xeon E7 v3/Xeon E5 v3/Core i7 Integrated Memory Controller 1 Channel Target Address Decoder
2f6b Xeon E7 v3/Xeon E5 v3/Core i7 Integrated Memory Controller 1 Channel Target Address Decoder
2f6c Xeon E7 v3/Xeon E5 v3/Core i7 Integrated Memory Controller 1 Channel Target Address Decoder
2f6d Xeon E7 v3/Xeon E5 v3/Core i7 Integrated Memory Controller 1 Channel Target Address Decoder
2f6e Xeon E7 v3/Xeon E5 v3/Core i7 DDRIO Channel
2/3 Broadcast
2f6f Xeon E7 v3/Xeon E5 v3/Core i7 DDRIO Global Broadcast
2f70 Xeon E7 v3/Xeon E5 v3/Core i7 Home Agent 0 Debug
2f71 Xeon E7 v3/Xeon E5 v3/Core i7 Integrated Memory Controller 0 Target Address, Thermal & RAS Registers
2f76 Xeon E7 v3/Xeon E5 v3/Core i7 E3 QPI Link Debug
2f78 Xeon E7 v3/Xeon E5 v3/Core i7 Home Agent 1 Debug
2f79 Xeon E7 v3/Xeon E5 v3/Core i7 Integrated Memory Controller 1 Target Address, Thermal & RAS Registers
2f7d Xeon E7 v3/Xeon E5 v3/Core i7 Scratchpad & Semaphore Registers
2f7e Xeon E7 v3/Xeon E5 v3/Core i7 E3 QPI Link Debug
2f80 Xeon E7 v3/Xeon E5 v3/Core i7 QPI Link 0
2f81 Xeon E7 v3/Xeon E5 v3/Core i7 R3 QPI Link 0 & 1 Monitoring
2f83 Xeon E7 v3/Xeon E5 v3/Core i7 QPI Link 0
2f85 Xeon E7 v3/Xeon E5 v3/Core i7 QPI Link 0 Debug
2f86 Xeon E7 v3/Xeon E5 v3/Core i7 QPI Link 0 Debug
2f87 Xeon E7 v3/Xeon E5 v3/Core i7 QPI Link 0 Debug
2f88 Xeon E7 v3/Xeon E5 v3/Core i7 VCU
2f8a Xeon E7 v3/Xeon E5 v3/Core i7 VCU
2f90
Xeon E7 v3/Xeon E5 v3/Core i7 QPI Link 1
2f93 Xeon E7 v3/Xeon E5 v3/Core i7 QPI Link 1
2f95 Xeon E7 v3/Xeon E5 v3/Core i7 QPI Link 1 Debug
2f96 Xeon E7 v3/Xeon E5 v3/Core i7 QPI Link 1 Debug
2f98 Xeon E7 v3/Xeon E5 v3/Core i7 Power Control Unit
2f99 Xeon E7 v3/Xeon E5 v3/Core i7 Power Control Unit
2f9a Xeon E7 v3/Xeon E5 v3/Core i7 Power Control Unit
2f9c Xeon E7 v3/Xeon E5 v3/Core i7 Power Control Unit
2fa0 Xeon E7 v3/Xeon E5 v3/Core i7 Home Agent 0
2fa8 Xeon E7 v3/Xeon E5 v3/Core i7 Integrated Memory Controller 0 Target Address, Thermal & RAS Registers
2faa Xeon E7 v3/Xeon E5 v3/Core i7 Integrated Memory Controller 0 Channel Target Address Decoder
2fab Xeon E7 v3/Xeon E5 v3/Core i7 Integrated Memory Controller 0 Channel Target Address Decoder
2fac Xeon E7 v3/Xeon E5 v3/Core i7 Integrated Memory Controller 0 Channel Target Address Decoder
2fad Xeon E7 v3/Xeon E5 v3/Core i7 Integrated Memory Controller 0 Channel Target Address Decoder
2fae Xeon E7 v3/Xeon E5
v3/Core i7 DDRIO Channel 0/1 Broadcast
2faf Xeon E7 v3/Xeon E5 v3/Core i7 DDRIO Global Broadcast
2fb0 Xeon E7 v3/Xeon E5 v3/Core i7 Integrated Memory Controller 0 Channel 0 Thermal Control
2fb1 Xeon E7 v3/Xeon E5 v3/Core i7 Integrated Memory Controller 0 Channel 1 Thermal Control
2fb2 Xeon E7 v3/Xeon E5 v3/Core i7 Integrated Memory Controller 0 Channel 0 ERROR Registers
2fb3 Xeon E7 v3/Xeon E5 v3/Core i7 Integrated Memory Controller 0 Channel 1 ERROR Registers
2fb4 Xeon E7 v3/Xeon E5 v3/Core i7 Integrated Memory Controller 0 Channel 2 Thermal Control
2fb5 Xeon E7 v3/Xeon E5 v3/Core i7 Integrated Memory Controller 0 Channel 3 Thermal Control
2fb6 Xeon E7 v3/Xeon E5 v3/Core i7 Integrated Memory Controller 0 Channel 2 ERROR Registers

2fb7 Xeon E7 v3/Xeon E5 v3/Core i7 Integrated Memory Controller 0 Channel 3 ERROR Registers
2fb8 Xeon E7 v3/Xeon E5 v3/Core i7 DDRIO (VMSE) 2 & 3
2fb9 Xeon E7 v3/Xeon E5 v3/Core i7 DDRIO (VMSE) 2 & 3
2fba Xeon E7 v3/Xeon E5 v3/Core i7
DDRIO (VMSE) 2 & 3
2fbb Xeon E7 v3/Xeon E5 v3/Core i7 DDRIO (VMSE) 2 & 3
2fbc Xeon E7 v3/Xeon E5 v3/Core i7 DDRIO (VMSE) 0 & 1
2fbd Xeon E7 v3/Xeon E5 v3/Core i7 DDRIO (VMSE) 0 & 1
2fbe Xeon E7 v3/Xeon E5 v3/Core i7 DDRIO (VMSE) 0 & 1
2fbf Xeon E7 v3/Xeon E5 v3/Core i7 DDRIO (VMSE) 0 & 1
2fc0 Xeon E7 v3/Xeon E5 v3/Core i7 Power Control Unit
2fc1 Xeon E7 v3/Xeon E5 v3/Core i7 Power Control Unit
2fc2 Xeon E7 v3/Xeon E5 v3/Core i7 Power Control Unit
2fc3 Xeon E7 v3/Xeon E5 v3/Core i7 Power Control Unit
2fc4 Xeon E7 v3/Xeon E5 v3/Core i7 Power Control Unit
2fc5 Xeon E7 v3/Xeon E5 v3/Core i7 Power Control Unit
2fd0 Xeon E7 v3/Xeon E5 v3/Core i7 Integrated Memory Controller 1 Channel 0 Thermal Control
2fd1 Xeon E7 v3/Xeon E5 v3/Core i7 Integrated Memory Controller 1 Channel 1 Thermal Control
2fd2 Xeon E7 v3/Xeon E5 v3/Core i7 Integrated Memory Controller 1 Channel 0 ERROR Registers
2fd3 Xeon E7 v3/Xeon E5 v3/Core i7 Integrated Memory Controller 1 Channel 1 ERROR
Registers
2fd4 Xeon E7 v3/Xeon E5 v3/Core i7 Integrated Memory Controller 1 Channel 2 Thermal Control
2fd5 Xeon E7 v3/Xeon E5 v3/Core i7 Integrated Memory Controller 1 Channel 3 Thermal Control
2fd6 Xeon E7 v3/Xeon E5 v3/Core i7 Integrated Memory Controller 1 Channel 2 ERROR Registers
2fd7 Xeon E7 v3/Xeon E5 v3/Core i7 Integrated Memory Controller 1 Channel 3 ERROR Registers
2fe0 Xeon E7 v3/Xeon E5 v3/Core i7 Unicast Registers
2fe1 Xeon E7 v3/Xeon E5 v3/Core i7 Unicast Registers
2fe2 Xeon E7 v3/Xeon E5 v3/Core i7 Unicast Registers
2fe3 Xeon E7 v3/Xeon E5 v3/Core i7 Unicast Registers
2fe4 Xeon E7 v3/Xeon E5 v3/Core i7 Unicast Registers
2fe5 Xeon E7 v3/Xeon E5 v3/Core i7 Unicast Registers
2fe6 Xeon E7 v3/Xeon E5 v3/Core i7 Unicast Registers
2fe7 Xeon E7 v3/Xeon E5 v3/Core i7 Unicast Registers
2fe8 Xeon E7 v3/Xeon E5 v3/Core i7 Unicast Registers
2fe9 Xeon E7 v3/Xeon E5 v3/Core i7 Unicast Registers
2fea Xeon E7 v3/Xeon E5 v3/Core i7 Unicast Registers
2feb
Xeon E7 v3/Xeon E5 v3/Core i7 Unicast Registers
2fec Xeon E7 v3/Xeon E5 v3/Core i7 Unicast Registers
2fed Xeon E7 v3/Xeon E5 v3/Core i7 Unicast Registers
2fee Xeon E7 v3/Xeon E5 v3/Core i7 Unicast Registers
2fef Xeon E7 v3/Xeon E5 v3/Core i7 Unicast Registers
2ff0 Xeon E7 v3/Xeon E5 v3/Core i7 Unicast Registers
2ff1 Xeon E7 v3/Xeon E5 v3/Core i7 Unicast Registers
2ff2 Xeon E7 v3/Xeon E5 v3/Core i7 Unicast Registers
2ff3 Xeon E7 v3/Xeon E5 v3/Core i7 Unicast Registers
2ff4 Xeon E7 v3/Xeon E5 v3/Core i7 Unicast Registers
2ff5 Xeon E7 v3/Xeon E5 v3/Core i7 Unicast Registers

2ff6 Xeon E7 v3/Xeon E5 v3/Core i7 Unicast Registers
2ff7 Xeon E7 v3/Xeon E5 v3/Core i7 Unicast Registers
2ff8 Xeon E7 v3/Xeon E5 v3/Core i7 Buffered Ring Agent
2ff9 Xeon E7 v3/Xeon E5 v3/Core i7 Buffered Ring Agent
2ffa Xeon E7 v3/Xeon E5 v3/Core i7 Buffered Ring Agent
2ffb Xeon E7 v3/Xeon E5 v3/Core i7 Buffered Ring Agent
2ffc Xeon E7 v3/Xeon E5 v3/Core i7 System Address Decoder & Broadcast
Registers
2ffd Xeon E7 v3/Xeon E5 v3/Core i7 System Address Decoder & Broadcast Registers
2ffe Xeon E7 v3/Xeon E5 v3/Core i7 System Address Decoder & Broadcast Registers
3165 Wireless 3165
Stone Peak 1x1
8086 4010 Dual Band Wireless AC 3165
Stone Peak 1x1
8086 4210 Dual Band Wireless AC 3165
3166 Dual Band Wireless-AC 3165 Plus Bluetooth
3184 UHD Graphics 605
3185 UHD Graphics 605
318c Celeron/Pentium Silver Processor Dynamic Platform and Thermal Framework Processor Participant
318e Celeron/Pentium Silver Processor NorthPeak
3192 Gemini Lake P2SB
3197 Celeron/Pentium Silver Processor PCI-default ISA-bridge
319a Celeron/Pentium Silver Processor Trusted Execution Engine Interface
31a2 Celeron/Pentium Silver Processor Integrated Sensor Solution
31ac Celeron/Pentium Silver Processor Serial IO I2C Host Controller
31ae Celeron/Pentium Silver Processor Serial IO I2C Host Controller
31bc Celeron/Pentium Silver Processor Serial IO UART Host Controller
31be
Celeron/Pentium Silver Processor Serial IO UART Host Controller
31c0 Celeron/Pentium Silver Processor Serial IO UART Host Controller
31c2 Celeron/Pentium Silver Processor Serial IO SPI Host Controller
31c4 Celeron/Pentium Silver Processor Serial IO SPI Host Controller
31c6 Celeron/Pentium Silver Processor Serial IO SPI Host Controller
31cc Celeron/Pentium Silver Processor SDA Standard Compliant SD Host Controller
31d4 Celeron/Pentium Silver Processor Gaussian Mixture Model
31d6 Gemini Lake PCI Express Root Port
31d7 Gemini Lake PCI Express Root Port
31d8 Gemini Lake PCI Express Root Port
31d9 Gemini Lake PCI Express Root Port
31da Gemini Lake PCI Express Root Port
31db Gemini Lake PCI Express Root Port
31ee Celeron/Pentium Silver Processor Serial IO UART Host Controller
31f0 Gemini Lake Host Bridge
3200 GD31244 PCI-X SATA HBA
1775 c200 C2K onboard SATA host bus adapter
3310 IOP348 I/O Processor
1054 3030 HRA380 Hitachi RAID Adapter to PCIe
1054

3034 HRA381 Hitachi RAID Adapter to PCIe
3313 IOP348 I/O Processor (SL8e) in IOC Mode SAS/SATA
331b IOP348 I/O Processor (SL8x) in IOC Mode SAS/SATA
3331 IOC340 I/O Controller (VV8e) SAS/SATA
3339 IOC340 I/O Controller (VV8x) SAS/SATA
3340 82855PM Processor to I/O Controller
 1014 0529 Thinkpad T40 series
 1025 005a TravelMate 290
 103c 088c NC8000 laptop
 103c 0890 NC6000 laptop
 103c 08b0 tc1100 tablet
 144d c005 X10 Laptop
 144d c00c P30/P35 notebook
3341 82855PM Processor to AGP Controller
 144d c00c P30 notebook
3363 IOC340 I/O Controller in IOC Mode SAS/SATA
3382 81342 [Chevelon] I/O Processor (ATUe)
33c3 IOP348 I/O Processor (SL8De) in IOC Mode SAS/SATA
33cb IOP348 I/O Processor (SL8Dx) in IOC Mode SAS/SATA
3400 5520/5500/X58 I/O Hub to ESI Port
3401 5520/5500/X58 I/O Hub to ESI Port
3402 5520/5500/X58 I/O Hub to ESI Port
3403 5500 I/O Hub to ESI Port
 1028 0236 PowerEdge R610 I/O Hub to ESI Port
 1028 0287 PowerEdge M610
I/O Hub to ESI Port
 1028 028c PowerEdge R410 I/O Hub to ESI Port
 1028 028d PowerEdge T410 I/O Hub to ESI Port
 103c 330b ProLiant ML150 G6 Server
3404 5520/5500/X58 I/O Hub to ESI Port
3405 5520/5500/X58 I/O Hub to ESI Port
3406 5520 I/O Hub to ESI Port
 103c 330b ProLiant G6 series
3407 5520/5500/X58 I/O Hub to ESI Port
3408 5520/5500/X58 I/O Hub PCI Express Root Port 1
 103c 330b ProLiant G6 series
3409 5520/5500/X58 I/O Hub PCI Express Root Port 2
340a 5520/5500/X58 I/O Hub PCI Express Root Port 3
 103c 330b ProLiant ML150 G6 Server
340b 5520/X58 I/O Hub PCI Express Root Port 4
340c 5520/X58 I/O Hub PCI Express Root Port 5
340d 5520/X58 I/O Hub PCI Express Root Port 6
340e 5520/5500/X58 I/O Hub PCI Express Root Port 7
 103c 330b ProLiant ML150 G6 Server
340f 5520/5500/X58 I/O Hub PCI Express Root Port 8
3410 7500/5520/5500/X58 I/O Hub PCI Express Root Port 9
3411 7500/5520/5500/X58 I/O Hub PCI Express Root Port 10
3418 7500/5520/5500/X58

Physical Layer Port 0
3419 7500/5520/5500 Physical Layer Port 1
3420 7500/5520/5500/X58 I/O Hub PCI Express Root Port 0
3421 7500/5520/5500/X58 I/O Hub PCI Express Root Port 0
3422 7500/5520/5500/X58 I/O Hub GPIO and Scratch Pad Registers
 103c 330b ProLiant G6 series
3423 7500/5520/5500/X58 I/O Hub Control Status and RAS Registers
 103c 330b ProLiant G6 series
3425 7500/5520/5500/X58 Physical and Link Layer Registers Port 0
3426 7500/5520/5500/X58 Routing and Protocol Layer Registers Port 0
3427 7500/5520/5500 Physical and Link Layer Registers Port 1
3428 7500/5520/5500 Routing & Protocol Layer Register Port 1
3429 5520/5500/X58 Chipset QuickData Technology Device
342a 5520/5500/X58 Chipset QuickData Technology Device
342b 5520/5500/X58 Chipset QuickData Technology Device
342c 5520/5500/X58 Chipset QuickData Technology Device
342d 7500/5520/5500/X58 I/O Hub I/OxAPIC Interrupt Controller
342e 7500/5520/5500/X58 I/O Hub System Management Registers
 103c
330b ProLiant G6 series
342f 7500/5520/5500/X58 Trusted Execution Technology Registers
3430 5520/5500/X58 Chipset QuickData Technology Device
3431 5520/5500/X58 Chipset QuickData Technology Device
3432 5520/5500/X58 Chipset QuickData Technology Device
3433 5520/5500/X58 Chipset QuickData Technology Device
3438 7500/5520/5500/X58 I/O Hub Throttle Registers
3482 Ice Lake-LP LPC Controller
34a3 Ice Lake-LP SMBus Controller
34a4 Ice Lake-LP SPI Controller
34a8 Ice Lake-LP Serial IO UART Controller #0
34a9 Ice Lake-LP Serial IO UART Controller #1
34aa Ice Lake-LP Serial IO SPI Controller #0
34ab Ice Lake-LP Serial IO SPI Controller #1
34b0 Ice Lake-LP PCI Express Root Port #9
34bc Ice Lake-LP PCI Express Root Port #5
34c5 Ice Lake-LP Serial IO I2c Controller #4
34c6 Ice Lake-LP Serial IO I2c Controller #5
34c8 Smart Sound Technology Audio Controller
34d3 Ice Lake-LP SATA Controller [AHCI mode]
34e0 Management Engine Interface
34e8 Ice Lake-LP
Serial IO I2C Controller #0
34e9 Ice Lake-LP Serial IO I2C Controller #1
34ea Ice Lake-LP Serial IO I2C Controller #2
34eb Ice Lake-LP Serial IO I2C Controller #3
34ed Ice Lake-LP USB 3.1 xHCI Host Controller
34f0 Killer Wi-Fi 6 AX1650i 160MHz Wireless Network Adapter (201NGW)
34f8 Ice Lake-LP SD Controller

3500 6311ESB/6321ESB PCI Express Upstream Port
 103c 31fe ProLiant DL140 G3
 15d9 9680 X7DBN Motherboard
3501 6310ESB PCI Express Upstream Port
3504 6311ESB/6321ESB I/OxAPIC Interrupt Controller
3505 6310ESB I/OxAPIC Interrupt Controller
350c 6311ESB/6321ESB PCI Express to PCI-X Bridge
 103c 31fe ProLiant DL140 G3
 15d9 9680 X7DBN Motherboard
350d 6310ESB PCI Express to PCI-X Bridge
3510 6311ESB/6321ESB PCI Express Downstream Port E1
 103c 31fe ProLiant DL140 G3
 15d9 9680 X7DBN Motherboard
3511 6310ESB PCI Express Downstream Port E1
3514 6311ESB/6321ESB PCI Express Downstream Port E2
3515 6310ESB PCI Express Downstream Port E2
3518 6311ESB/6321ESB
PCI Express Downstream Port E3
 15d9 9680 X7DBN Motherboard
3519 6310ESB PCI Express Downstream Port E3
3575 82830M/MG/MP Host Bridge
 0e11 0030 Evo N600c
 1014 021d ThinkPad A/T/X Series
 104d 80e7 VAIO PCG-GR214EP/GR214MP/GR215MP/GR314MP/GR315MP
3576 82830M/MP AGP Bridge
3577 82830M/MG Integrated Graphics Controller
 1014 0513 ThinkPad A/T/X Series
3578 82830M/MG/MP Host Bridge
3580 82852/82855 GM/GME/PM/GMV Processor to I/O Controller
 1014 055c ThinkPad R50e
 1025 0064 Extensa 3000 series laptop
 1028 0139 Latitude D400
 1028 014f Latitude X300
 1028 0152 Latitude D500
 1028 0163 Latitude D505
 1028 018d Inspiron 700m/710m
 1028 0196 Inspiron 5160
 114a 0582 PC8
 1734 1055 Amilo M1420
 1775 10d0 V5D Single Board Computer
 1775 ce90 CE9
 4c53 10b0 CL9 mainboard
 4c53 10e0 PSL09 PrPMC
 e4bf 0cc9 CC9-SAMBA
 e4bf 0cd2 CD2-BEBOP
3581 82852/82855 GM/GME/PM/GMV Processor to AGP Controller
 1734 1055 Amilo M1420
3582

82852/855GM Integrated Graphics Device
1014 0562 ThinkPad R50e
1028 0139 Latitude D400
1028 014f Latitude X300
1028 0152 Latitude D500
1028 0163 Latitude D505
1028 018d Inspiron 700m/710m
114a 0582 PC8 integrated graphics
1775 10d0 V5D Single Board Computer VGA
1775 ce90 CE9
4c53 10b0 CL9 mainboard
4c53 10e0 PSL09 PrPMC
e4bf 0cc9 CC9-SAMBA
e4bf 0cd2 CD2-BEBOP
3584 82852/82855 GM/GME/PM/GMV Processor to I/O Controller
1014 055d ThinkPad R50e
1025 0064 Extensa 3000 series laptop
1028 0139 Latitude D400
1028 014f Latitude X300
1028 0152 Latitude D500
1028 0163 Latitude D505
1028 018d Inspiron 700m/710m
1028 0196 Inspiron 5160
114a 0582 PC8
1734 1055 Amilo M1420
1775 10d0 V5D Single Board Computer
1775 ce90 CE9
4c53 10b0 CL9 mainboard
4c53 10e0 PSL09 PrPMC
3585 82852/82855 GM/GME/PM/GMV Processor to I/O Controller
1014 055e ThinkPad R50e
1025 0064 Extensa 3000 series laptop
1028 0139 Latitude D400
1028
014f Latitude X300
1028 0152 Latitude D500
1028 0163 Latitude D505
1028 018d Inspiron 700m/710m
1028 0196 Inspiron 5160
114a 0582 PC8
1734 1055 Amilo M1420
1775 10d0 V5D Single Board Computer
1775 ce90 CE9
4c53 10b0 CL9 mainboard
4c53 10e0 PSL09 PrPMC
358c 82854 GMCH
358e 82854 GMCH Integrated Graphics Device
3590 E7520 Memory Controller Hub

1014 02dd eServer xSeries server mainboard
1028 016c PowerEdge 1850 Memory Controller Hub
1028 016d PowerEdge 2850 Memory Controller Hub
1028 019a PowerEdge SC1425
1734 103e PRIMERGY RX/TX S2 series
1775 1100 CR11/VR11 Single Board Computer
4c53 10d0 Telum ASLP10 Processor AMC
3591 E7525/E7520 Error Reporting Registers
1014 02dd eServer xSeries server mainboard
1028 0168 Precision Workstation 670 Mainboard
1028 0169 Precision 470
103c 3208 ProLiant DL140 G2
4c53 10d0 Telum ASLP10 Processor AMC
3592 E7320 Memory Controller Hub
1734 1073 Primergy Econel 200 D2020
mainboard
3593 E7320 Error Reporting Registers
1734 1073 Primergy Econel 200 D2020 mainboard
3594 E7520 DMA Controller
1775 1100 CR11/VR11 Single Board Computer
4c53 10d0 Telum ASLP10 Processor AMC
3595 E7525/E7520/E7320 PCI Express Port A
1775 1100 CR11/VR11 Single Board Computer
3596 E7525/E7520/E7320 PCI Express Port A1
3597 E7525/E7520 PCI Express Port B
1775 1100 CR11/VR11 Single Board Computer
3598 E7520 PCI Express Port B1
1775 1100 CR11/VR11 Single Board Computer
3599 E7520 PCI Express Port C
1775 1100 CR11/VR11 Single Board Computer
359a E7520 PCI Express Port C1
359b E7525/E7520/E7320 Extended Configuration Registers
1014 02dd eServer xSeries server mainboard
359e E7525 Memory Controller Hub
1028 0168 Precision Workstation 670 Mainboard
1028 0169 Precision 470
35b0 3100 Chipset Memory I/O Controller Hub
35b1 3100 DRAM Controller Error Reporting Registers
35b5 3100 Chipset Enhanced DMA Controller
35b6 3100 Chipset PCI Express
Port A
35b7 3100 Chipset PCI Express Port A1
35c8 3100 Extended Configuration Test Overflow Registers
3600 7300 Chipset Memory Controller Hub
3604 7300 Chipset PCI Express Port 1
3605 7300 Chipset PCI Express Port 2
3606 7300 Chipset PCI Express Port 3
3607 7300 Chipset PCI Express Port 4

3608 7300 Chipset PCI Express Port 5
3609 7300 Chipset PCI Express Port 6
360a 7300 Chipset PCI Express Port 7
360b 7300 Chipset QuickData Technology Device
360c 7300 Chipset FSB Registers
1028 01f0 PowerEdge R900 7300 Chipset FSB Registers
360d 7300 Chipset Snoop Filter Registers
360e 7300 Chipset Debug and Miscellaneous Registers
360f 7300 Chipset FBD Branch 0 Registers
3610 7300 Chipset FBD Branch 1 Registers
3700 Xeon C5500/C3500 DMI
3701 Xeon C5500/C3500 DMI
3702 Xeon C5500/C3500 DMI
3703 Xeon C5500/C3500 DMI
3704 Xeon C5500/C3500 DMI
3705 Xeon C5500/C3500 DMI
3706 Xeon C5500/C3500 DMI
3707 Xeon C5500/C3500 DMI
3708 Xeon C5500/C3500 DMI
3709
Xeon C5500/C3500 DMI
370a Xeon C5500/C3500 DMI
370b Xeon C5500/C3500 DMI
370c Xeon C5500/C3500 DMI
370d Xeon C5500/C3500 DMI
370e Xeon C5500/C3500 DMI
370f Xeon C5500/C3500 DMI
3710 Xeon C5500/C3500 CB3 DMA
3711 Xeon C5500/C3500 CB3 DMA
3712 Xeon C5500/C3500 CB3 DMA
3713 Xeon C5500/C3500 CB3 DMA
3714 Xeon C5500/C3500 CB3 DMA
3715 Xeon C5500/C3500 CB3 DMA
3716 Xeon C5500/C3500 CB3 DMA
3717 Xeon C5500/C3500 CB3 DMA
3718 Xeon C5500/C3500 CB3 DMA
3719 Xeon C5500/C3500 CB3 DMA
371a Xeon C5500/C3500 QPI Link
371b Xeon C5500/C3500 QPI Routing and Protocol
371d Xeon C5500/C3500 QPI Routing and Protocol
3720 Xeon C5500/C3500 PCI Express Root Port 0
3721 Xeon C5500/C3500 PCI Express Root Port 1
3722 Xeon C5500/C3500 PCI Express Root Port 2
3723 Xeon C5500/C3500 PCI Express Root Port 3
3724 Xeon C5500/C3500 PCI Express Root Port 4
3725 Xeon C5500/C3500 NTB Primary
3726 Xeon C5500/C3500 NTB Primary
3727 Xeon C5500/C3500 NTB Secondary

3728
Xeon C5500/C3500 Core
3729 Xeon C5500/C3500 Core
372a Xeon C5500/C3500 Core
372b Xeon C5500/C3500 Core
372c Xeon C5500/C3500 Reserved
373f Xeon C5500/C3500 IOxAPIC
37c8 C62x Chipset QuickAssist Technology
37cc Ethernet Connection X722
37cd Ethernet Virtual Function 700 Series
37ce Ethernet Connection X722 for 10GbE backplane
1590 0215 Ethernet 10Gb 2-port 568i Adapter
17aa 4023 Intel Ethernet Connection X722 for 10GbE backplane
17aa 4025 Ethernet Connection X722 for 10GbE backplane
37cf Ethernet Connection X722 for 10GbE QSFP+
37d0 Ethernet Connection X722 for 10GbE SFP+
17aa 4020 Intel Ethernet Connection X722 for 10G SFP+
17aa 4021 Intel Ethernet Connection X722 for 10G SFP+
17aa 4022 Ethernet Connection X722 for 10GbE SFP+
8086 0001 Ethernet Network Adapter X722-2
8086 0002 Ethernet Network Adapter X722-2
8086 0003 Ethernet Network Adapter X722-4
8086 0004 Ethernet Network Adapter X722-4
37d1 Ethernet Connection X722 for 1GbE
14cd
0010 88E1514 Ethernet OCP 2x1G RJ45 Phy Card [USI-1514-1GbaseT]
1590 0216 Ethernet 1Gb 2-port 368i Adapter
1590 0217 Ethernet 1Gb 2-port 368FLR-MMT Adapter
1590 0247 Ethernet 1Gb 4-port 369i Adapter
17aa 4020 Ethernet Connection X722 for 1GbE
17aa 4021 Ethernet Connection X722 for 1GbE
17aa 4022 Ethernet Connection X722 for 1GbE
17aa 4024 Ethernet Connection X722 for 1GbE
37d2 Ethernet Connection X722 for 10GBASE-T
1059 0180 RD10019 10GbE interface
1170 37d2 Ethernet Connection X722 for 10GBASE-T
14cd 0030 Ethernet OCP 2x10G RJ45 Phy Card [USI-X557-10GbaseT]
1590 0218 Ethernet 10Gb 2-port 568FLR-MMT Adapter
17aa 4020 Ethernet Connection X722 for 10GBASE-T
17aa 4021 Ethernet Connection X722 for 10GBASE-T
17aa 4022 Ethernet Connection X722 for 10GBASE-T
17aa 4024 Ethernet Connection X722 for 10GBASE-T
17aa 4025 Ethernet Connection X722 for 10GBASE-T
37d3 Ethernet Connection X722 for 10GbE SFP+
1590 0219 Ethernet 10Gb 2-port
568FLR-MMSFP+ Adapter
17aa 4020 Ethernet Connection X722 for 10GbE SFP+
17aa 4021 Ethernet Connection X722 for 10GbE SFP+

17aa 4025 Ethernet Connection X722 for 10GbE SFP+
37d4 Ethernet Connection X722 for 10GbE QSFP+
37d9 X722 Hyper-V Virtual Function
3a00 82801JD/DO (ICH10 Family) 4-port SATA IDE Controller
3a02 82801JD/DO (ICH10 Family) SATA AHCI Controller
3a05 82801JD/DO (ICH10 Family) SATA RAID Controller
3a06 82801JD/DO (ICH10 Family) 2-port SATA IDE Controller
3a14 82801JDO (ICH10DO) LPC Interface Controller
3a16 82801JIR (ICH10R) LPC Interface Controller
1028 028c PowerEdge R410 LPC Interface Controller
1028 028d PowerEdge T410 LPC Interface Controller
103c 330b ProLiant G6 series
1043 82d4 P5Q Deluxe Motherboard
1458 5001 GA-EP45-DS5 Motherboard
3a18 82801JIB (ICH10) LPC Interface Controller
3a1a 82801JD (ICH10D) LPC Interface Controller
3a20 82801JI (ICH10 Family) 4 port SATA IDE Controller #1
1028 028c PowerEdge R410 SATA IDE
Controller
1028 028d PowerEdge T410 SATA IDE Controller
3a22 82801JI (ICH10 Family) SATA AHCI Controller
103c 330b ProLiant G6 series
1043 82d4 P5Q Deluxe Motherboard
1458 b005 GA-EP45-DS5/GA-EG45M-DS2H Motherboard
3a25 82801JIR (ICH10R) SATA RAID Controller
1028 028c PERC S100 Controller (PE R410)
1028 028d PERC S100 Controller (PE T410)
1028 02f1 PERC S100 Controller (PE R510)
3a26 82801JI (ICH10 Family) 2 port SATA IDE Controller #2
1028 028c PowerEdge R410 SATA IDE Controller
1028 028d PowerEdge T410 SATA IDE Controller
3a30 82801JI (ICH10 Family) SMBus Controller
1043 82d4 P5Q Deluxe Motherboard
1458 5001 GA-EP45-DS5/GA-EG45M-DS2H Motherboard
3a32 82801JI (ICH10 Family) Thermal Subsystem
3a34 82801JI (ICH10 Family) USB UHCI Controller #1
1028 028c PowerEdge R410 USB UHCI Controller
1028 028d PowerEdge T410 USB UHCI Controller
103c 330b ProLiant G6 series
1043 82d4 P5Q Deluxe Motherboard
1458 5004 GA-EP45-DS5 Motherboard
3a35
82801JI (ICH10 Family) USB UHCI Controller #2
1028 028c PowerEdge R410 USB UHCI Controller
1028 028d PowerEdge T410 USB UHCI Controller
103c 330b ProLiant G6 series
1043 82d4 P5Q Deluxe Motherboard
1458 5004 GA-EP45-DS5 Motherboard

3a36 82801JI (ICH10 Family) USB UHCI Controller #3
 1028 028c PowerEdge R410 USB UHCI Controller
 1028 028d PowerEdge T410 USB UHCI Controller
 103c 330b ProLiant G6 series
 1043 82d4 P5Q Deluxe Motherboard
 1458 5004 GA-EP45-DS5 Motherboard
3a37 82801JI (ICH10 Family) USB UHCI Controller #4
 1028 028c PowerEdge R410 USB UHCI Controller
 1028 028d PowerEdge T410 USB UHCI Controller
 103c 330b ProLiant G6 series
 1043 82d4 P5Q Deluxe Motherboard
 1458 5004 Motherboard
3a38 82801JI (ICH10 Family) USB UHCI Controller #5
 1028 028c PowerEdge R410 USB UHCI Controller
 1028 028d PowerEdge T410 USB UHCI Controller
 103c 330b ProLiant ML150 G6 Server
 1043 82d4 P5Q Deluxe Motherboard
 1458 5004 Motherboard
3a39
 82801JI (ICH10 Family) USB UHCI Controller #6
 1028 028c PowerEdge R410 USB UHCI Controller
 1028 028d PowerEdge T410 USB UHCI Controller
 103c 330b ProLiant ML150 G6 Server
 1043 82d4 P5Q Deluxe Motherboard
 1458 5004 Motherboard
3a3a 82801JI (ICH10 Family) USB2 EHCI Controller #1
 1028 028c PowerEdge R410 USB EHCI Controller
 1028 028d PowerEdge T410 USB EHCI Controller
 103c 330b ProLiant G6 series
 1043 82d4 P5Q Deluxe Motherboard
 1458 5006 GA-EP45-DS5 Motherboard
3a3c 82801JI (ICH10 Family) USB2 EHCI Controller #2
 1028 028c PowerEdge R410 USB EHCI Controller
 1028 028d PowerEdge T410 USB EHCI Controller
 103c 330b ProLiant G6 series
 1043 82d4 P5Q Deluxe Motherboard
 1458 5006 Motherboard
3a3e 82801JI (ICH10 Family) HD Audio Controller
 1043 8311 P5Q Deluxe Motherboard
 1458 a002 GA-EP45-UD3R Motherboard
 1458 a102 GA-EP45-DS5/GA-EG45M-DS2H Motherboard
3a40 82801JI (ICH10 Family) PCI Express Root Port 1
 1028 028c PowerEdge R410
PCI Express Port 1
 1028 028d PowerEdge T410 PCI Express Port 1
 103c 330b ProLiant ML150 G6 Server
 1043 82d4 P5Q Deluxe Motherboard
 1043 82ea P6T DeLuxe Motherboard

1458 5001 GA-EP45-DS5/GA-EG45M-DS2H Motherboard
3a42 82801JI (ICH10 Family) PCI Express Port 2
3a44 82801JI (ICH10 Family) PCI Express Root Port 3
1043 82ea P6T DeLuxe Motherboard
3a46 82801JI (ICH10 Family) PCI Express Root Port 4
1043 82ea P6T DeLuxe Motherboard
1458 5001 GA-EP45-DS5 Motherboard
3a48 82801JI (ICH10 Family) PCI Express Root Port 5
103c 330b ProLiant ML150 G6 Server
1043 82ea P6T Deluxe Motherboard
1458 5001 GA-EP45-DS5 Motherboard
3a4a 82801JI (ICH10 Family) PCI Express Root Port 6
103c 330b ProLiant ML150 G6 Server
1043 82d4 P5Q Deluxe Motherboard
1043 82ea P6T DeLuxe Motherboard
1458 5001 GA-EP45-DS5/GA-EG45M-DS2H Motherboard
3a4c 82801JI (ICH10 Family) Gigabit Ethernet Controller
3a51 82801JDO (ICH10DO) VECI Controller
3a55 82801JD/DO (ICH10 Family)
Virtual SATA Controller
3a60 82801JD/DO (ICH10 Family) SMBus Controller
3a62 82801JD/DO (ICH10 Family) Thermal Subsystem
3a64 82801JD/DO (ICH10 Family) USB UHCI Controller #1
3a65 82801JD/DO (ICH10 Family) USB UHCI Controller #2
3a66 82801JD/DO (ICH10 Family) USB UHCI Controller #3
3a67 82801JD/DO (ICH10 Family) USB UHCI Controller #4
3a68 82801JD/DO (ICH10 Family) USB UHCI Controller #5
3a69 82801JD/DO (ICH10 Family) USB UHCI Controller #6
3a6a 82801JD/DO (ICH10 Family) USB2 EHCI Controller #1
3a6c 82801JD/DO (ICH10 Family) USB2 EHCI Controller #2
3a6e 82801JD/DO (ICH10 Family) HD Audio Controller
3a70 82801JD/DO (ICH10 Family) PCI Express Port 1
3a72 82801JD/DO (ICH10 Family) PCI Express Port 2
3a74 82801JD/DO (ICH10 Family) PCI Express Port 3
3a76 82801JD/DO (ICH10 Family) PCI Express Port 4
3a78 82801JD/DO (ICH10 Family) PCI Express Port 5
3a7a 82801JD/DO (ICH10 Family) PCI Express Port 6
3a7c 82801JD/DO (ICH10 Family) Gigabit Ethernet Controller
3b00
5 Series/3400 Series Chipset LPC Interface Controller
3b01 Mobile 5 Series Chipset LPC Interface Controller
3b02 P55 Chipset LPC Interface Controller
3b03 PM55 Chipset LPC Interface Controller
3b04 5 Series Chipset LPC Interface Controller
3b05 Mobile 5 Series Chipset LPC Interface Controller
3b06 H55 Chipset LPC Interface Controller
3b07 QM57 Chipset LPC Interface Controller
1028 040a Latitude E6410

1028 040b Latitude E6510
e4bf 50c1 PC1-GROOVE
3b08 H57 Chipset LPC Interface Controller
3b09 HM55 Chipset LPC Interface Controller
1025 0347 Aspire 7740G
144d c06a R730 Laptop
17c0 10d2 Medion Akoya E7214 Notebook PC [MD98410]
3b0a Q57 Chipset LPC Interface Controller
1028 02da OptiPlex 980
15d9 060d C7SIM-Q Motherboard
3b0b HM57 Chipset LPC Interface Controller
3b0c 5 Series Chipset LPC Interface Controller
3b0d 5 Series/3400 Series Chipset LPC Interface Controller
3b0e 5 Series/3400 Series Chipset LPC Interface Controller
3b0f
QS57 Chipset LPC Interface Controller
3b10 5 Series/3400 Series Chipset LPC Interface Controller
3b11 5 Series/3400 Series Chipset LPC Interface Controller
3b12 3400 Series Chipset LPC Interface Controller
3b13 5 Series/3400 Series Chipset LPC Interface Controller
3b14 3420 Chipset LPC Interface Controller
15d9 0605 X8SIL
3b15 5 Series/3400 Series Chipset LPC Interface Controller
3b16 3450 Chipset LPC Interface Controller
3b17 5 Series/3400 Series Chipset LPC Interface Controller
3b18 5 Series/3400 Series Chipset LPC Interface Controller
3b19 5 Series/3400 Series Chipset LPC Interface Controller
3b1a 5 Series/3400 Series Chipset LPC Interface Controller
3b1b 5 Series/3400 Series Chipset LPC Interface Controller
3b1c 5 Series/3400 Series Chipset LPC Interface Controller
3b1d 5 Series/3400 Series Chipset LPC Interface Controller
3b1e 5 Series/3400 Series Chipset LPC Interface Controller
3b1f 5 Series/3400 Series Chipset LPC Interface Controller
3b20
5 Series/3400 Series Chipset 4 port SATA IDE Controller
3b21 5 Series/3400 Series Chipset 2 port SATA IDE Controller
3b22 5 Series/3400 Series Chipset 6 port SATA AHCI Controller
1028 02da OptiPlex 980
15d9 0605 X8SIL
15d9 060d C7SIM-Q Motherboard
3b23 5 Series/3400 Series Chipset 4 port SATA AHCI Controller
3b25 5 Series/3400 Series Chipset SATA RAID Controller
103c 3118 Smart Array B110i SATA RAID Controller
3b26 5 Series/3400 Series Chipset 2 port SATA IDE Controller
3b28 5 Series/3400 Series Chipset 4 port SATA IDE Controller
144d c06a R730 Laptop
17c0 10d2 Medion Akoya E7214 Notebook PC [MD98410]
3b29 5 Series/3400 Series Chipset 4 port SATA AHCI Controller

1025 0347 Aspire 7740G
144d c06a R730 Laptop
17c0 10d2 Medion Akoya E7214 Notebook PC [MD98410]
3b2c 5 Series/3400 Series Chipset SATA RAID Controller
3b2d 5 Series/3400 Series Chipset 2 port SATA IDE Controller
144d c06a R730 Laptop
17c0 10d2 Medion Akoya E7214 Notebook
PC [MD98410]
e4bf 50c1 PC1-GROOVE
3b2e 5 Series/3400 Series Chipset 4 port SATA IDE Controller
e4bf 50c1 PC1-GROOVE
3b2f 5 Series/3400 Series Chipset 6 port SATA AHCI Controller
1028 040a Latitude E6410
1028 040b Latitude E6510
e4bf 50c1 PC1-GROOVE
3b30 5 Series/3400 Series Chipset SMBus Controller
1025 0347 Aspire 7740G
1028 02da OptiPlex 980
1028 040a Latitude E6410
1028 040b Latitude E6510
1043 3838 P7P55-M Motherboard
1043 8383 P7P55-M Motherboard
144d c06a R730 Laptop
15d9 0605 X8SIL
15d9 060d C7SIM-Q Motherboard
17c0 10d2 Medion Akoya E7214 Notebook PC [MD98410]
e4bf 50c1 PC1-GROOVE
3b32 5 Series/3400 Series Chipset Thermal Subsystem
1025 0347 Aspire 7740G
1028 040a Latitude E6410
144d c06a R730 Laptop
17c0 10d2 Medion Akoya E7214 Notebook PC [MD98410]
3b34 5 Series/3400 Series Chipset USB2 Enhanced Host Controller
1025 0347 Aspire 7740G
1028 02da OptiPlex 980
1028 040a Latitude E6410
1028 040b Latitude
E6510
144d c06a R730 Laptop
15d9 0605 X8SIL
15d9 060d C7SIM-Q Motherboard
17c0 10d2 Medion Akoya E7214 Notebook PC [MD98410]
e4bf 50c1 PC1-GROOVE
3b36 5 Series/3400 Series Chipset USB Universal Host Controller
3b37 5 Series/3400 Series Chipset USB Universal Host Controller
3b38 5 Series/3400 Series Chipset USB Universal Host Controller
3b39 5 Series/3400 Series Chipset USB Universal Host Controller
3b3a 5 Series/3400 Series Chipset USB Universal Host Controller

3b3b 5 Series/3400 Series Chipset USB Universal Host Controller
3b3c 5 Series/3400 Series Chipset USB2 Enhanced Host Controller
 1025 0347 Aspire 7740G
 1028 02da OptiPlex 980
 1028 040a Latitude E6410
 1028 040b Latitude E6510
 144d c06a R730 Laptop
 15d9 0605 X8SIL
 15d9 060d C7SIM-Q Motherboard
 17c0 10d2 Medion Akoya E7214 Notebook PC [MD98410]
 e4bf 50c1 PC1-GROOVE
3b3e 5 Series/3400 Series Chipset USB Universal Host Controller
3b3f 5 Series/3400 Series Chipset USB Universal
Host Controller
3b40 5 Series/3400 Series Chipset USB Universal Host Controller
3b41 5 Series/3400 Series Chipset LAN Controller
3b42 5 Series/3400 Series Chipset PCI Express Root Port 1
 1028 02da OptiPlex 980
 1028 040a Latitude E6410
 1028 040b Latitude E6510
 103c 1521 EliteBook 8540p
 144d c06a R730 Laptop
 15d9 060d C7SIM-Q Motherboard
 17c0 10d2 Medion Akoya E7214 Notebook PC [MD98410]
3b44 5 Series/3400 Series Chipset PCI Express Root Port 2
 1028 040a Latitude E6410
 1028 040b Latitude E6510
 15d9 060d C7SIM-Q Motherboard
 17c0 10d2 Medion Akoya E7214 Notebook PC [MD98410]
3b46 5 Series/3400 Series Chipset PCI Express Root Port 3
 1028 040a Latitude E6410
 1028 040b Latitude E6510
 144d c06a R730 Laptop
 17c0 10d2 Medion Akoya E7214 Notebook PC [MD98410]
3b48 5 Series/3400 Series Chipset PCI Express Root Port 4
 1028 040a Latitude E6410
 1028 040b Latitude E6510
 144d c06a R730 Laptop
3b4a 5 Series/3400 Series Chipset PCI
Express Root Port 5
 1028 02da OptiPlex 980
 17c0 10d2 Medion Akoya E7214 Notebook PC [MD98410]
3b4c 5 Series/3400 Series Chipset PCI Express Root Port 6
3b4e 5 Series/3400 Series Chipset PCI Express Root Port 7
3b50 5 Series/3400 Series Chipset PCI Express Root Port 8
3b53 5 Series/3400 Series Chipset VECI Controller
3b56 5 Series/3400 Series Chipset High Definition Audio
 1025 0347 Aspire 7740G

1028 02da OptiPlex 980
1028 040a Latitude E6410
1028 040b Latitude E6510
1043 1373 G73-series gaming laptop
144d c06a R730 Laptop
15d9 060d C7SIM-Q Motherboard
17c0 10d2 Medion Akoya E7214 Notebook PC [MD98410]
e4bf 50c1 PC1-GROOVE
3b57 5 Series/3400 Series Chipset High Definition Audio
3b64 5 Series/3400 Series Chipset HECI Controller
1025 0347 Aspire 7740G
15d9 060d C7SIM-Q Motherboard
17c0 10d2 Medion Akoya E7214 Notebook PC [MD98410]
e4bf 50c1 PC1-GROOVE
3b65 5 Series/3400 Series Chipset HECI Controller
3b66 5 Series/3400 Series
Chipset PT IDER Controller
3b67 5 Series/3400 Series Chipset KT Controller
e4bf 50c1 PC1-GROOVE
3c00 Xeon E5/Core i7 DMI2
3c01 Xeon E5/Core i7 DMI2 in PCI Express Mode
3c02 Xeon E5/Core i7 IIO PCI Express Root Port 1a
3c03 Xeon E5/Core i7 IIO PCI Express Root Port 1b
3c04 Xeon E5/Core i7 IIO PCI Express Root Port 2a
3c05 Xeon E5/Core i7 IIO PCI Express Root Port 2b
3c06 Xeon E5/Core i7 IIO PCI Express Root Port 2c
3c07 Xeon E5/Core i7 IIO PCI Express Root Port 2d
3c08 Xeon E5/Core i7 IIO PCI Express Root Port 3a in PCI Express Mode
3c09 Xeon E5/Core i7 IIO PCI Express Root Port 3b
3c0a Xeon E5/Core i7 IIO PCI Express Root Port 3c
3c0b Xeon E5/Core i7 IIO PCI Express Root Port 3d
3c0d Xeon E5/Core i7 Non-Transparent Bridge
3c0e Xeon E5/Core i7 Non-Transparent Bridge
3c0f Xeon E5/Core i7 Non-Transparent Bridge
3c20 Xeon E5/Core i7 DMA Channel 0
3c21 Xeon E5/Core i7 DMA Channel 1
3c22 Xeon E5/Core i7 DMA Channel 2
3c23 Xeon E5/Core i7 DMA Channel
3
3c24 Xeon E5/Core i7 DMA Channel 4
3c25 Xeon E5/Core i7 DMA Channel 5
3c26 Xeon E5/Core i7 DMA Channel 6
3c27 Xeon E5/Core i7 DMA Channel 7
3c28 Xeon E5/Core i7 Address Map, VTd_Misc, System Management
3c2a Xeon E5/Core i7 Control Status and Global Errors
3c2c Xeon E5/Core i7 I/O APIC
3c2e Xeon E5/Core i7 DMA
3c2f Xeon E5/Core i7 DMA

3c40 Xeon E5/Core i7 IIO Switch and IRP Performance Monitor
3c43 Xeon E5/Core i7 Ring to PCI Express Performance Monitor
3c44 Xeon E5/Core i7 Ring to QuickPath Interconnect Link 0 Performance Monitor
3c45 Xeon E5/Core i7 Ring to QuickPath Interconnect Link 1 Performance Monitor
3c46 Xeon E5/Core i7 Processor Home Agent Performance Monitoring
3c71 Xeon E5/Core i7 Integrated Memory Controller RAS Registers
3c80 Xeon E5/Core i7 QPI Link 0
3c83 Xeon E5/Core i7 QPI Link Reut 0
3c84 Xeon E5/Core i7 QPI Link Reut 0
3c90 Xeon E5/Core i7 QPI Link 1
3c93 Xeon E5/Core i7 QPI Link Reut 1
3c94 Xeon E5/Core i7 QPI Link Reut
1
3ca0 Xeon E5/Core i7 Processor Home Agent
3ca8 Xeon E5/Core i7 Integrated Memory Controller Registers
3caa Xeon E5/Core i7 Integrated Memory Controller Target Address Decoder 0
3cab Xeon E5/Core i7 Integrated Memory Controller Target Address Decoder 1
3cac Xeon E5/Core i7 Integrated Memory Controller Target Address Decoder 2
3cad Xeon E5/Core i7 Integrated Memory Controller Target Address Decoder 3
3cae Xeon E5/Core i7 Integrated Memory Controller Target Address Decoder 4
3cb0 Xeon E5/Core i7 Integrated Memory Controller Channel 0-3 Thermal Control 0
3cb1 Xeon E5/Core i7 Integrated Memory Controller Channel 0-3 Thermal Control 1
3cb2 Xeon E5/Core i7 Integrated Memory Controller ERROR Registers 0
3cb3 Xeon E5/Core i7 Integrated Memory Controller ERROR Registers 1
3cb4 Xeon E5/Core i7 Integrated Memory Controller Channel 0-3 Thermal Control 2
3cb5 Xeon E5/Core i7 Integrated Memory Controller Channel 0-3 Thermal Control 3
3cb6 Xeon E5/Core i7 Integrated Memory
Controller ERROR Registers 2
3cb7 Xeon E5/Core i7 Integrated Memory Controller ERROR Registers 3
3cb8 Xeon E5/Core i7 DDRIO
3cc0 Xeon E5/Core i7 Power Control Unit 0
3cc1 Xeon E5/Core i7 Power Control Unit 1
3cc2 Xeon E5/Core i7 Power Control Unit 2
3cd0 Xeon E5/Core i7 Power Control Unit 3
3ce0 Xeon E5/Core i7 Interrupt Control Registers
3ce3 Xeon E5/Core i7 Semaphore and Scratchpad Configuration Registers
3ce4 Xeon E5/Core i7 R2PCIe
3ce6 Xeon E5/Core i7 QuickPath Interconnect Agent Ring Registers
3ce8 Xeon E5/Core i7 Unicast Register 0
3ce9 Xeon E5/Core i7 Unicast Register 5
3cea Xeon E5/Core i7 Unicast Register 1
3ceb Xeon E5/Core i7 Unicast Register 6
3cec Xeon E5/Core i7 Unicast Register 3
3ced Xeon E5/Core i7 Unicast Register 7
3cee Xeon E5/Core i7 Unicast Register 4
3cef Xeon E5/Core i7 Unicast Register 8
3cf4 Xeon E5/Core i7 Integrated Memory Controller System Address Decoder 0
3cf5 Xeon E5/Core i7 Integrated Memory Controller System Address

Decoder 1
3cf6 Xeon E5/Core i7 System Address Decoder
3e10 8th Gen Core 4-core Processor Host Bridge/DRAM Registers [Coffee Lake H]
3e18 8th Gen Core 4-core Workstation Processor Host Bridge/DRAM Registers [Coffee Lake S]
3e1f 8th Gen Core 4-core Desktop Processor Host Bridge/DRAM Registers [Coffee Lake S]
 1458 5000 Z370 AORUS Gaming K3-CF
3e30 8th Gen Core 8-core Desktop Processor Host Bridge/DRAM Registers [Coffee Lake S]
3e33 8th/9th Gen Core Processor Host Bridge/DRAM Registers [Coffee Lake]
3e34 Coffee Lake HOST and DRAM Controller
3e81 8th Gen Core Processor PCIe Controller (x16)
3e85 8th Gen Core Processor PCIe Controller (x8)
3e89 8th Gen Core Processor PCIe Controller (x4)
3e91 8th Gen Core Processor Gaussian Mixture Model
3e92 UHD Graphics 630 (Desktop)
3e93 UHD Graphics 610
3e96 HD Graphics P630
3e98 UHD Graphics 630 (Desktop 9 Series)
3e9b UHD Graphics 630 (Mobile)
3ea0 UHD Graphics 620 (Whiskey Lake)
 1028 089e Inspiron 5482
3ea5
 Iris Plus Graphics 655
3ec2 8th Gen Core Processor Host Bridge/DRAM Registers
 1043 8694 PRIME H310M-D
3ec4 8th Gen Core Processor Host Bridge/DRAM Registers
3ec6 8th Gen Core Processor Host Bridge/DRAM Registers
3eca 8th Gen Core Processor Host Bridge/DRAM Registers
3ed0 8th Gen Core Processor Host Bridge/DRAM Registers
4000 5400 Chipset Memory Controller Hub
4001 5400 Chipset Memory Controller Hub
4003 5400 Chipset Memory Controller Hub
4021 5400 Chipset PCI Express Port 1
4022 5400 Chipset PCI Express Port 2
4023 5400 Chipset PCI Express Port 3
4024 5400 Chipset PCI Express Port 4
4025 5400 Chipset PCI Express Port 5
4026 5400 Chipset PCI Express Port 6
4027 5400 Chipset PCI Express Port 7
4028 5400 Chipset PCI Express Port 8
4029 5400 Chipset PCI Express Port 9
402d 5400 Chipset IBIST Registers
402e 5400 Chipset IBIST Registers
402f 5400 Chipset QuickData Technology Device
4030 5400 Chipset FSB Registers
4031 5400 Chipset CE/SF Registers
4032
 5400 Chipset IOxAPIC
4035 5400 Chipset FBD Registers

4036 5400 Chipset FBD Registers
4100 Moorestown Graphics and Video
4108 Atom Processor E6xx Integrated Graphics Controller
4109 Atom Processor E6xx Integrated Graphics Controller
410a Atom Processor E6xx Integrated Graphics Controller
410b Atom Processor E6xx Integrated Graphics Controller
410c Atom Processor E6xx Integrated Graphics Controller
410d Atom Processor E6xx Integrated Graphics Controller
410e Atom Processor E6xx Integrated Graphics Controller
410f Atom Processor E6xx Integrated Graphics Controller
4114 Atom Processor E6xx PCI Host Bridge #1
4115 Atom Processor E6xx PCI Host Bridge #2
4116 Atom Processor E6xx PCI Host Bridge #3
4117 Atom Processor E6xx PCI Host Bridge #4
4220 PRO/Wireless 2200BG [Calexico2] Network Connection
 103c 0934 Compaq nw8240/nx8220
 103c 12f6 nc6120/nc6220/nw8240/nx8220
 8086 2701 WM3B2200BG Mini-PCI Card
 8086 2712 IBM ThinkPad R50e
 8086 2721
 Dell B130 laptop integrated WLAN
 8086 2722 Dell Latitude D600
 8086 2731 Samsung P35 integrated WLAN
4222 PRO/Wireless 3945ABG [Golan] Network Connection
 103c 135c PRO/Wireless 3945ABG [Golan] Network Connection
 8086 1000 PRO/Wireless 3945ABG Network Connection
 8086 1001 WM3945ABG MOW2
 8086 1005 PRO/Wireless 3945BG Network Connection
 8086 1034 PRO/Wireless 3945BG Network Connection
 8086 1044 PRO/Wireless 3945BG Network Connection
 8086 1c00 PRO/Wireless 3945ABG Network Connection
4223 PRO/Wireless 2915ABG [Calexico2] Network Connection
 1000 8086 mPCI 3B Americas/Europe ZZA
 1001 8086 mPCI 3B Europe ZZE
 1002 8086 mPCI 3B Japan ZZJ
 1003 8086 mPCI 3B High-Band ZZH
 103c 1351 Compaq nc6220
4224 PRO/Wireless 2915ABG [Calexico2] Network Connection
4227 PRO/Wireless 3945ABG [Golan] Network Connection
 8086 1010 ThinkPad R60e
 8086 1011 ThinkPad T60/R60e/X60s/R61
 8086 1014 PRO/Wireless 3945BG Network Connection
4229 PRO/Wireless 4965 AG
or AGN [Kedron] Network Connection
 8086 1100 Vaio VGN-SZ79SN_C
 8086 1101 PRO/Wireless 4965 AG or AGN
422b Centrino Ultimate-N 6300
 8086 1101 Centrino Ultimate-N 6300 3x3 AGN

8086 1121 Centrino Ultimate-N 6300 3x3 AGN
422c Centrino Advanced-N 6200
8086 1301 Centrino Advanced-N 6200 2x2 AGN
8086 1306 Centrino Advanced-N 6200 2x2 ABG
8086 1307 Centrino Advanced-N 6200 2x2 BG
8086 1321 Centrino Advanced-N 6200 2x2 AGN
8086 1326 Centrino Advanced-N 6200 2x2 ABG
4230 PRO/Wireless 4965 AG or AGN [Kedron] Network Connection
8086 1110 Lenovo ThinkPad T51
8086 1111 Lenovo ThinkPad T61
4232 WiFi Link 5100
8086 1201 WiFi Link 5100 AGN
8086 1204 WiFi Link 5100 AGN
8086 1205 WiFi Link 5100 BGN
8086 1206 WiFi Link 5100 ABG
8086 1221 WiFi Link 5100 AGN
8086 1224 WiFi Link 5100 AGN
8086 1225 WiFi Link 5100 BGN
8086 1226 WiFi Link 5100 ABG
8086 1301 WiFi Link 5100 AGN
8086 1304 WiFi Link 5100 AGN
8086 1305 WiFi Link 5100 BGN
8086
1306 WiFi Link 5100 ABG
8086 1321 WiFi Link 5100 AGN
8086 1324 WiFi Link 5100 AGN
8086 1325 WiFi Link 5100 BGN
8086 1326 WiFi Link 5100 ABG
4235 Ultimate N WiFi Link 5300
4236 Ultimate N WiFi Link 5300
4237 PRO/Wireless 5100 AGN [Shiloh] Network Connection
8086 1211 WiFi Link 5100 AGN
8086 1214 WiFi Link 5100 AGN
8086 1215 WiFi Link 5100 BGN
8086 1216 WiFi Link 5100 ABG
8086 1311 WiFi Link 5100 AGN
8086 1314 WiFi Link 5100 AGN
8086 1315 WiFi Link 5100 BGN
8086 1316 WiFi Link 5100 ABG
4238 Centrino Ultimate-N 6300
8086 1111 Centrino Ultimate-N 6300 3x3 AGN
4239 Centrino Advanced-N 6200
8086 1311 Centrino Advanced-N 6200 2x2 AGN
8086 1316 Centrino Advanced-N 6200 2x2 ABG
423a PRO/Wireless 5350 AGN [Echo Peak] Network Connection
423b PRO/Wireless 5350 AGN [Echo Peak] Network Connection
423c WiMAX/WiFi Link 5150
8086 1201 WiMAX/WiFi Link 5150 AGN

8086 1206 WiMAX/WiFi Link 5150 ABG
8086 1221 WiMAX/WiFi Link 5150 AGN
8086
1301 WiMAX/WiFi Link 5150 AGN
8086 1306 WiMAX/WiFi Link 5150 ABG
8086 1321 WiMAX/WiFi Link 5150 AGN
423d WiMAX/WiFi Link 5150
8086 1211 WiMAX/WiFi Link 5150 AGN
8086 1216 WiMAX/WiFi Link 5150 ABG
8086 1311 WiMAX/WiFi Link 5150 AGN
8086 1316 WiMAX/WiFi Link 5150 ABG
444e Turbo Memory Controller
467f Volume Management Device NVMe RAID Controller
4c3d Volume Management Device NVMe RAID Controller
5001 LE80578
5002 LE80578 Graphics Processor Unit
5009 LE80578 Video Display Controller
500d LE80578 Expansion Bus
500e LE80578 UART Controller
500f LE80578 General Purpose IO
5010 LE80578 I2C Controller
5012 LE80578 Serial Peripheral Interface Bus
5020 EP80579 Memory Controller Hub
5021 EP80579 DRAM Error Reporting Registers
5023 EP80579 EDMA Controller
5024 EP80579 PCI Express Port PEA0
5025 EP80579 PCI Express Port PEA1
5028 EP80579 S-ATA IDE
5029 EP80579 S-ATA AHCI
502a EP80579 S-ATA Reserved
502b EP80579 S-ATA Reserved
502c
EP80579 Integrated Processor ASU
502d EP80579 Integrated Processor with QuickAssist ASU
502e EP80579 Reserved
502f EP80579 Reserved
5030 EP80579 Reserved
5031 EP80579 LPC Bus
5032 EP80579 SMBus Controller
5033 EP80579 USB 1.1 Controller
5035 EP80579 USB 2.0 Controller
5037 EP80579 PCI-PCI Bridge (transparent mode)
5039 EP80579 Controller Area Network (CAN) interface #1
503a EP80579 Controller Area Network (CAN) interface #2
503b EP80579 Synchronous Serial Port (SPP)
503c EP80579 IEEE 1588 Hardware Assist
503d EP80579 Local Expansion Bus
503e EP80579 Global Control Unit (GCU)

503f EP80579 Reserved
5040 EP80579 Integrated Processor Gigabit Ethernet MAC
5041 EP80579 Integrated Processor with QuickAssist Gigabit Ethernet MAC
5042 EP80579 Reserved
5043 EP80579 Reserved
5044 EP80579 Integrated Processor Gigabit Ethernet MAC
5045 EP80579 Integrated Processor with QuickAssist Gigabit Ethernet MAC
5046 EP80579 Reserved
5047 EP80579 Reserved
5048
EP80579 Integrated Processor Gigabit Ethernet MAC
5049 EP80579 Integrated Processor with QuickAssist Gigabit Ethernet MAC
504a EP80579 Reserved
504b EP80579 Reserved
504c EP80579 Integrated Processor with QuickAssist TDM
5200 EtherExpress PRO/100 Intelligent Server PCI Bridge
5201 EtherExpress PRO/100 Intelligent Server Fast Ethernet Controller
8086 0001 EtherExpress PRO/100 Server Ethernet Adapter
530d 80310 (IOP) IO Processor
5845 QEMU NVM Express Controller
1af4 1100 QEMU Virtual Machine
5900 Xeon E3-1200 v6/7th Gen Core Processor Host Bridge/DRAM Registers
5901 Xeon E3-1200 v6/7th Gen Core Processor PCIe Controller (x16)
5902 HD Graphics 610
5904 Xeon E3-1200 v6/7th Gen Core Processor Host Bridge/DRAM Registers
1025 115f Aspire E5-575G
17aa 2247 ThinkPad T570
17aa 224f ThinkPad X1 Carbon 5th Gen
5905 Xeon E3-1200 v6/7th Gen Core Processor PCIe Controller (x8)
5909 Xeon E3-1200 v6/7th Gen Core Processor PCIe Controller (x4)
590c Xeon E3-1200
v6/7th Gen Core Processor Host Bridge/DRAM Registers
590f Xeon E3-1200 v6/7th Gen Core Processor Host Bridge/DRAM Registers
1462 7a68 B250 KRAIT GAMING (MS-7A68)
5910 Xeon E3-1200 v6/7th Gen Core Processor Host Bridge/DRAM Registers
5911 Xeon E3-1200 v6/7th Gen Core Processor Gaussian Mixture Model
5912 HD Graphics 630
5914 Xeon E3-1200 v6/7th Gen Core Processor Host Bridge/DRAM Registers
17aa 225d ThinkPad T480
5916 HD Graphics 620
1025 1094 Aspire E5-575G
17aa 2248 ThinkPad T570
17aa 224f ThinkPad X1 Carbon 5th Gen
5917 UHD Graphics 620
17aa 225e ThinkPad T480
5918 Xeon E3-1200 v6/7th Gen Core Processor Host Bridge/DRAM Registers
591b HD Graphics 630
591c UHD Graphics 615

591d HD Graphics P630
591e HD Graphics 615
591f Xeon E3-1200 v6/7th Gen Core Processor Host Bridge/DRAM Registers
5923 HD Graphics 635
5926 Iris Plus Graphics 640
5927 Iris Plus Graphics 650
5a84 Celeron N3350/Pentium N4200/Atom E3900 Series Integrated Graphics
Controller
5a85 HD Graphics 500
5a88 Celeron N3350/Pentium N4200/Atom E3900 Series Imaging Unit
5a98 Celeron N3350/Pentium N4200/Atom E3900 Series Audio Cluster
5a9a Celeron N3350/Pentium N4200/Atom E3900 Series Trusted Execution Engine
5aa2 Celeron N3350/Pentium N4200/Atom E3900 Series Integrated Sensor Hub
5aa8 Celeron N3350/Pentium N4200/Atom E3900 Series USB xHCI
5aac Celeron N3350/Pentium N4200/Atom E3900 Series I2C Controller #1
5aae Celeron N3350/Pentium N4200/Atom E3900 Series I2C Controller #2
5ab0 Celeron N3350/Pentium N4200/Atom E3900 Series I2C Controller #3
5ab2 Celeron N3350/Pentium N4200/Atom E3900 Series I2C Controller #4
5ab4 Celeron N3350/Pentium N4200/Atom E3900 Series I2C Controller #5
5ab6 Celeron N3350/Pentium N4200/Atom E3900 Series I2C Controller #6
5ab8 Celeron N3350/Pentium N4200/Atom E3900 Series I2C Controller #7
5aba Celeron N3350/Pentium N4200/Atom E3900 Series I2C Controller #8
5abc Celeron N3350/Pentium N4200/Atom E3900 Series
HSUART Controller #1
5abe Celeron N3350/Pentium N4200/Atom E3900 Series HSUART Controller #2
5ac0 Celeron N3350/Pentium N4200/Atom E3900 Series HSUART Controller #3
5ac2 Celeron N3350/Pentium N4200/Atom E3900 Series SPI Controller #1
5ac4 Celeron N3350/Pentium N4200/Atom E3900 Series SPI Controller #2
5ac6 Celeron N3350/Pentium N4200/Atom E3900 Series SPI Controller #3
5ac8 Celeron N3350/Pentium N4200/Atom E3900 Series PWM Pin Controller
5aca Celeron N3350/Pentium N4200/Atom E3900 Series SDXC/MMC Host Controller
5acc Celeron N3350/Pentium N4200/Atom E3900 Series eMMC Controller
5ad0 Celeron N3350/Pentium N4200/Atom E3900 Series SDIO Controller
5ad4 Celeron N3350/Pentium N4200/Atom E3900 Series SMBus Controller
5ad6 Celeron N3350/Pentium N4200/Atom E3900 Series PCI Express Port B #1
5ad7 Celeron N3350/Pentium N4200/Atom E3900 Series PCI Express Port B #2
5ad8 Celeron N3350/Pentium N4200/Atom E3900 Series PCI Express Port A #1
5ad9 Celeron N3350/Pentium
N4200/Atom E3900 Series PCI Express Port A #2
5ada Celeron N3350/Pentium N4200/Atom E3900 Series PCI Express Port A #3
5adb Celeron N3350/Pentium N4200/Atom E3900 Series PCI Express Port A #4
5ae3 Celeron N3350/Pentium N4200/Atom E3900 Series SATA AHCI Controller
5ae8 Celeron N3350/Pentium N4200/Atom E3900 Series Low Pin Count Interface
5aee Celeron N3350/Pentium N4200/Atom E3900 Series HSUART Controller #4
5af0 Celeron N3350/Pentium N4200/Atom E3900 Series Host Bridge
65c0 5100 Chipset Memory Controller Hub
65e2 5100 Chipset PCI Express x4 Port 2
65e3 5100 Chipset PCI Express x4 Port 3

65e4 5100 Chipset PCI Express x4 Port 4
65e5 5100 Chipset PCI Express x4 Port 5
65e6 5100 Chipset PCI Express x4 Port 6
65e7 5100 Chipset PCI Express x4 Port 7
65f0 5100 Chipset FSB Registers
 1028 020f PowerEdge R300
 1028 0210 PowerEdge T300
65f1 5100 Chipset Reserved Registers
 1028 0210 PowerEdge T300
65f3 5100 Chipset Reserved Registers
65f5 5100 Chipset DDR
Channel 0 Registers
65f6 5100 Chipset DDR Channel 1 Registers
65f7 5100 Chipset PCI Express x8 Port 2-3
65f8 5100 Chipset PCI Express x8 Port 4-5
65f9 5100 Chipset PCI Express x8 Port 6-7
65fa 5100 Chipset PCI Express x16 Port 4-7
65ff 5100 Chipset DMA Engine
6f00 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D DMI2
 15d9 0832 X10SRL-F
6f01 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D PCI Express Root Port 0
6f02 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D PCI Express Root Port 1
6f03 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D PCI Express Root Port 1
6f04 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D PCI Express Root Port 2
6f05 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D PCI Express Root Port 2
6f06 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D PCI Express Root Port 2
6f07 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D PCI Express Root Port 2
6f08 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D PCI Express Root Port 3
6f09 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D PCI Express Root Port 3
6f0a Xeon E7
v4/Xeon E5 v4/Xeon E3 v4/Xeon D PCI Express Root Port 3
6f0b Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D PCI Express Root Port 3
6f10 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D IIO Debug
6f11 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D IIO Debug
6f12 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D IIO Debug
6f13 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D IIO Debug
6f14 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D IIO Debug
6f15 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D IIO Debug
6f16 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D IIO Debug
6f17 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D IIO Debug
6f18 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D IIO Debug
6f19 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D IIO Debug
6f1a Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D IIO Debug
6f1b Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D IIO Debug
6f1c Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D IIO Debug
6f1d Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D R2PCIe Agent
6f1e Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Ubox
6f1f Xeon E7 v4/Xeon

E5 v4/Xeon E3 v4/Xeon D Ubox
6f20 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Crystal Beach DMA Channel 0
 15d9 0832 X10SRL-F
6f21 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Crystal Beach DMA Channel 1
 15d9 0832 X10SRL-F
6f22 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Crystal Beach DMA Channel 2
 15d9 0832 X10SRL-F
6f23 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Crystal Beach DMA Channel 3
 15d9 0832 X10SRL-F
6f24 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Crystal Beach DMA Channel 4
 15d9 0832 X10SRL-F
6f25 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Crystal Beach DMA Channel 5
 15d9 0832 X10SRL-F
6f26 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Crystal Beach DMA Channel 6
 15d9 0832 X10SRL-F
6f27 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Crystal Beach DMA Channel 7
 15d9 0832 X10SRL-F
6f28 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Map/VTd_Misc/System Management
 15d9 0832 X10SRL-F
6f29 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D IIO Hot Plug
 15d9 0832 X10SRL-F
6f2a Xeon
E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D IIO RAS/Control Status/Global Errors
 15d9 0832 X10SRL-F
6f2c Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D I/O APIC
 15d9 0832 X10SRL-F
6f30 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Home Agent 0
6f32 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D QPI Link 0
6f33 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D QPI Link 1
6f34 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D R2PCIe Agent
6f36 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D R3 QPI Link 0/1
6f37 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D R3 QPI Link 0/1
6f38 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Home Agent 1
6f39 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D IO Performance Monitoring
6f3a Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D QPI Link 2
6f3e Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D R3 QPI Link 2
6f3f Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D R3 QPI Link 2
6f40 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D QPI Link 2
6f41 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D R3 QPI Link 2
6f43 Xeon E7 v4/Xeon E5 v4/Xeon
E3 v4/Xeon D QPI Link 2
6f45 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D QPI Link 2 Debug
6f46 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D QPI Link 2 Debug
6f47 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D QPI Link 2 Debug
6f50 Xeon Processor D Family QuickData Technology Register DMA Channel 0
6f51 Xeon Processor D Family QuickData Technology Register DMA Channel 1
6f52 Xeon Processor D Family QuickData Technology Register DMA Channel 2
6f53 Xeon Processor D Family QuickData Technology Register DMA Channel 3

6f54 Xeon Processor D Family QuickAssist Technology
6f55 Xeon Processor D Family QuickAssist Technology Virtual Fuction
6f60 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Home Agent 1
6f68 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Target Address/Thermal/RAS
6f6a Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Channel Target Address Decoder
6f6b Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Channel Target Address Decoder
6f6c Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Channel Target Address
Decoder
6f6d Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Channel Target Address Decoder
6f6e Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D DDRIO Channel 2/3 Broadcast
6f6f Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D DDRIO Global Broadcast
6f70 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Home Agent 0 Debug
6f71 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Memory Controller 0 - Target Address/Thermal/RAS
6f76 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D R3 QPI Link Debug
6f78 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Home Agent 1 Debug
6f79 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Target Address/Thermal/RAS
6f7d Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Ubox
6f7e Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D R3 QPI Link Debug
6f80 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D QPI Link 0
6f81 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D R3 QPI Link 0/1
6f83 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D QPI Link 0
6f85 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D QPI Link 0 Debug
6f86 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon
D QPI Link 0 Debug
6f87 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D QPI Link 0 Debug
6f88 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Power Control Unit
6f8a Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Power Control Unit
6f90 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D QPI Link 1
6f93 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D QPI Link 1
6f95 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D QPI Link 1 Debug
6f96 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D QPI Link 1 Debug
6f98 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Power Control Unit
6f99 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Power Control Unit
6f9a Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Power Control Unit
6f9c Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Power Control Unit
6fa0 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Home Agent 0
6fa8 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Memory Controller 0 - Target Address/Thermal/RAS
6faa Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Memory Controller 0 - Channel Target Address Decoder
6fab Xeon E7 v4/Xeon
E5 v4/Xeon E3 v4/Xeon D Memory Controller 0 - Channel Target Address Decoder
6fac Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Memory Controller 0 - Channel Target Address Decoder
6fad Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Memory Controller 0 - Channel Target Address Decoder
6fae Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D DDRIO Channel 0/1 Broadcast
6faf Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D DDRIO Global Broadcast
6fb0 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Memory Controller 0 - Channel 0 Thermal Control
6fb1 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Memory Controller 0 - Channel 1 Thermal Control
6fb2 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Memory Controller 0 - Channel 0 Error
6fb3 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Memory Controller 0 - Channel 1 Error

6fb4 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Memory Controller 0 - Channel 2 Thermal Control
6fb5 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Memory Controller 0 - Channel 3 Thermal Control
6fb6 Xeon E7 v4/Xeon
E5 v4/Xeon E3 v4/Xeon D Memory Controller 0 - Channel 2 Error
6fb7 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Memory Controller 0 - Channel 3 Error
6fb8 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D DDRIO Channel 2/3 Interface
6fb9 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D DDRIO Channel 2/3 Interface
6fba Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D DDRIO Channel 2/3 Interface
6fbb Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D DDRIO Channel 2/3 Interface
6fbc Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D DDRIO Channel 0/1 Interface
6fbd Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D DDRIO Channel 0/1 Interface
6fbe Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D DDRIO Channel 0/1 Interface
6fbf Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D DDRIO Channel 0/1 Interface
6fc0 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Power Control Unit
6fc1 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Power Control Unit
6fc2 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Power Control Unit
6fc3 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Power
Control Unit
6fc4 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Power Control Unit
6fc5 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Power Control Unit
6fc6 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Power Control Unit
6fc7 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Power Control Unit
6fc8 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Power Control Unit
6fc9 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Power Control Unit
6fca Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Power Control Unit
6fcb Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Power Control Unit
6fcc Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Power Control Unit
6fcd Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Power Control Unit
6fce Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Power Control Unit
6fcf Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Power Control Unit
6fd0 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Memory Controller 1 - Channel 0 Thermal Control
6fd1 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Memory Controller 1 - Channel 1 Thermal Control
6fd2
Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Memory Controller 1 - Channel 0 Error
6fd3 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Memory Controller 1 - Channel 1 Error
6fd4 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Memory Controller 1 - Channel 2 Thermal Control
6fd5 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Memory Controller 1 - Channel 3 Thermal Control
6fd6 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Memory Controller 1 - Channel 2 Error
6fd7 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Memory Controller 1 - Channel 3 Error
6fe0 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Caching Agent
6fe1 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Caching Agent
6fe2 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Caching Agent
6fe3 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Caching Agent
6fe4 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Caching Agent
6fe5 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Caching Agent
6fe6 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Caching Agent
6fe7 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Caching

Agent
6fe8 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Caching Agent
6fe9 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Caching Agent
6fea Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Caching Agent
6feb Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Caching Agent
6fec Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Caching Agent
6fed Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Caching Agent
6fee Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Caching Agent
6fef Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Caching Agent
6ff0 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Caching Agent
6ff1 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Caching Agent
6ff8 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Caching Agent
6ff9 Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Caching Agent
6ffa Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Caching Agent
6ffb Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Caching Agent
6ffc Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Caching Agent
6ffd Xeon E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Caching Agent
6ffe Xeon
E7 v4/Xeon E5 v4/Xeon E3 v4/Xeon D Caching Agent
7000 82371SB PIIX3 ISA [Natoma/Triton II]
 1af4 1100 Qemu virtual machine
7010 82371SB PIIX3 IDE [Natoma/Triton II]
 1af4 1100 Qemu virtual machine
7020 82371SB PIIX3 USB [Natoma/Triton II]
 1af4 1100 QEMU Virtual Machine
7030 430VX - 82437VX TVX [Triton VX]
7050 Intercast Video Capture Card
7051 PB 642365-003 (Business Video Conferencing Card)
7100 430TX - 82439TX MTXC
7110 82371AB/EB/MB PIIX4 ISA
 15ad 1976 Virtual Machine Chipset
7111 82371AB/EB/MB PIIX4 IDE
 15ad 1976 Virtual Machine Chipset
7112 82371AB/EB/MB PIIX4 USB
 15ad 1976 Virtual Machine Chipset
 1af4 1100 QEMU Virtual Machine
7113 82371AB/EB/MB PIIX4 ACPI
 15ad 1976 Virtual Machine Chipset
 1af4 1100 Qemu virtual machine
7120 82810 GMCH (Graphics Memory Controller Hub)
 4c53 1040 CL7 mainboard
 4c53 1060 PC7 mainboard
7121 82810 (CGC) Chipset Graphics Controller
 4c53 1040 CL7 mainboard
 4c53 1060 PC7 mainboard
 8086 4341
 Cayman (CA810) Mainboard
7122 82810 DC-100 (GMCH) Graphics Memory Controller Hub

7123 82810 DC-100 (CGC) Chipset Graphics Controller
7124 82810E DC-133 (GMCH) Graphics Memory Controller Hub
 1028 00b4 OptiPlex GX110
7125 82810E DC-133 (CGC) Chipset Graphics Controller
 1028 00b4 OptiPlex GX110
7126 82810 DC-133 System and Graphics Controller
7128 82810-M DC-100 System and Graphics Controller
712a 82810-M DC-133 System and Graphics Controller
7180 440LX/EX - 82443LX/EX Host bridge
7181 440LX/EX - 82443LX/EX AGP bridge
7190 440BX/ZX/DX - 82443BX/ZX/DX Host bridge
 0e11 0500 Armada 1750 Laptop System Chipset
 0e11 b110 Armada M700/E500
 1028 008e PowerEdge 1300 mainboard
 1043 803b CUBX-L/E Mainboard
 1179 0001 Toshiba Tecra 8100 Laptop System Chipset
 15ad 1976 Virtual Machine Chipset
 4c53 1050 CT7 mainboard
 4c53 1051 CE7 mainboard
7191 440BX/ZX/DX - 82443BX/ZX/DX AGP bridge
 1028 008e PowerEdge 1300 mainboard
7192 440BX/ZX/DX - 82443BX/ZX/DX
Host bridge (AGP disabled)
 0e11 0460 Armada 1700 Laptop System Chipset
 1179 0001 Satellite 4010
 4c53 1000 CC7/CR7/CP7/VC7/VP7/VR7 mainboard
 8086 7190 Dell PowerEdge 350
7194 82440MX Host Bridge
 1033 0000 Versa Note Vxi
 4c53 10a0 CA3/CR3 mainboard
7195 82440MX AC'97 Audio Controller
 1033 80cc Versa Note VXi
 10cf 1099 QSound_SigmaTel Stac97 PCI Audio
 11d4 0040 SoundMAX Integrated Digital Audio
 11d4 0048 SoundMAX Integrated Digital Audio
7196 82440MX AC'97 Modem Controller
7198 82440MX ISA Bridge
7199 82440MX EIDE Controller
719a 82440MX USB Universal Host Controller
719b 82440MX Power Management Controller
71a0 440GX - 82443GX Host bridge
 4c53 1050 CT7 mainboard
 4c53 1051 CE7 mainboard
71a1 440GX - 82443GX AGP bridge
71a2 440GX - 82443GX Host bridge (AGP disabled)
 4c53 1000 CC7/CR7/CP7/VC7/VP7/VR7 mainboard
7360 XMM7360 LTE Advanced Modem
7600 82372FB PIIX5 ISA

7601 82372FB PIIX5 IDE
7602 82372FB PIIX5 USB
7603 82372FB
PIIX5 SMBus
7800 82740 (i740) AGP Graphics Accelerator
003d 0008 Starfighter AGP
003d 000b Starfighter AGP
1092 0100 Stealth II G460
10b4 201a Lightspeed 740
10b4 202f Lightspeed 740
8086 0000 Terminator 2x/i
8086 0100 Intel740 Graphics Accelerator
8002 Trusted Execution Technology Registers
8003 Trusted Execution Technology Registers
8100 US15W/US15X SCH [Poulsbo] Host Bridge
8101 US15L/UL11L SCH [Poulsbo] Host Bridge
8108 US15W/US15X SCH [Poulsbo] Graphics Controller
8109 US15L/UL11L SCH [Poulsbo] Graphics Controller
8110 US15W/US15X/US15L/UL11L SCH [Poulsbo] PCI Express Port 1
8112 US15W/US15X/US15L/UL11L SCH [Poulsbo] PCI Express Port 2
8114 US15W/US15X/US15L/UL11L SCH [Poulsbo] USB UHCI Controller #1
8115 US15W/US15X/US15L/UL11L SCH [Poulsbo] USB UHCI Controller #2
8116 US15W/US15X/US15L/UL11L SCH [Poulsbo] USB UHCI Controller #3
8117 US15W/US15X/US15L/UL11L SCH [Poulsbo] USB EHCI Controller
8118 US15W/US15X/US15L/UL11L SCH [Poulsbo]
USB Client Controller
8119 US15W/US15X/US15L/UL11L SCH [Poulsbo] LPC Bridge
811a US15W/US15X/US15L/UL11L SCH [Poulsbo] IDE Controller
811b US15W/US15X/US15L/UL11L SCH [Poulsbo] HD Audio Controller
811c US15W/US15X/US15L/UL11L SCH [Poulsbo] SDIO/MMC Controller #1
811d US15W/US15X/US15L/UL11L SCH [Poulsbo] SDIO/MMC Controller #2
811e US15W/US15X/US15L/UL11L SCH [Poulsbo] SDIO/MMC Controller #3
8180 Atom Processor E6xx PCI Express Port 3
8181 Atom Processor E6xx PCI Express Port 4
8182 Atom Processor E6xx Integrated Graphics Controller
8183 Atom Processor E6xx Configuration Unit
8184 Atom Processor E6xx PCI Express Port 1
8185 Atom Processor E6xx PCI Express Port 2
8186 Atom Processor E6xx LPC Bridge
84c4 450KX/GX [Orion] - 82454KX/GX PCI bridge
84c5 450KX/GX [Orion] - 82453KX/GX Memory controller
84ca 450NX - 82451NX Memory & I/O Controller
84cb 450NX - 82454NX/84460GX PCI Expander Bridge
84e0 460GX - 84460GX System Address Controller (SAC)
84e1
460GX - 84460GX System Data Controller (SDC)
84e2 460GX - 84460GX AGP Bridge (GXB function 2)
84e3 460GX - 84460GX Memory Address Controller (MAC)

84e4 460GX - 84460GX Memory Data Controller (MDC)
84e6 460GX - 82466GX Wide and fast PCI eXpander Bridge (WXB)
84ea 460GX - 84460GX AGP Bridge (GXB function 1)
8500 IXP4XX Network Processor (IXP420/421/422/425/IXC1100)
1993 0ded mGuard-PCI AV#2
1993 0dee mGuard-PCI AV#1
1993 0def mGuard-PCI AV#0
87c0 UHD Graphics 617
8800 Platform Controller Hub EG20T PCI Express Port
8801 Platform Controller Hub EG20T Packet Hub
8802 Platform Controller Hub EG20T Gigabit Ethernet Controller
8803 Platform Controller Hub EG20T General Purpose IO Controller
8804 Platform Controller Hub EG20T USB OHCI Controller #4
8805 Platform Controller Hub EG20T USB OHCI Controller #5
8806 Platform Controller Hub EG20T USB OHCI Controller #6
8807 Platform Controller Hub EG20T USB2 EHCI Controller #2
8808 Platform Controller Hub EG20T
USB Client Controller
8809 Platform Controller Hub EG20T SDIO Controller #1
880a Platform Controller Hub EG20T SDIO Controller #2
880b Platform Controller Hub EG20T SATA AHCI Controller
880c Platform Controller Hub EG20T USB OHCI Controller #1
880d Platform Controller Hub EG20T USB OHCI Controller #2
880e Platform Controller Hub EG20T USB OHCI Controller #3
880f Platform Controller Hub EG20T USB2 EHCI Controller #1
8810 Platform Controller Hub EG20T DMA Controller #1
8811 Platform Controller Hub EG20T UART Controller 0
8812 Platform Controller Hub EG20T UART Controller 1
8813 Platform Controller Hub EG20T UART Controller 2
8814 Platform Controller Hub EG20T UART Controller 3
8815 Platform Controller Hub EG20T DMA Controller #2
8816 Platform Controller Hub EG20T Serial Peripheral Interface Bus
8817 Platform Controller Hub EG20T I2C Controller
8818 Platform Controller Hub EG20T Controller Area Network (CAN) Controller
8819 Platform Controller Hub EG20T
IEEE 1588 Hardware Assist
8a0d Ice Lake Thunderbolt 3 NHI #1
8a13 Ice Lake Thunderbolt 3 USB Controller
8a17 Ice Lake Thunderbolt 3 NHI #0
8a1d Ice Lake Thunderbolt 3 PCI Express Root Port #0
8a1f Ice Lake Thunderbolt 3 PCI Express Root Port #1
8a21 Ice Lake Thunderbolt 3 PCI Express Root Port #2
8a23 Ice Lake Thunderbolt 3 PCI Express Root Port #3
8a52 Iris Plus Graphics G7
8c00 8 Series/C220 Series Chipset Family 4-port SATA Controller 1 [IDE mode]
8c01 8 Series Chipset Family 4-port SATA Controller 1 [IDE mode] - Mobile
8c02 8 Series/C220 Series Chipset Family 6-port SATA Controller 1 [AHCI mode]
17aa 309f ThinkCentre M83

8c03 8 Series/C220 Series Chipset Family 6-port SATA Controller 1 [AHCI mode]
 103c 1909 ZBook 15
 17aa 220e ThinkPad T440p
8c04 8 Series/C220 Series Chipset Family SATA Controller 1 [RAID mode]
8c05 8 Series/C220 Series Chipset Family SATA Controller 1 [RAID mode]
8c06 8 Series/C220 Series Chipset Family SATA Controller 1 [RAID
mode]
8c07 8 Series/C220 Series Chipset Family SATA Controller 1 [RAID mode]
8c08 8 Series/C220 Series Chipset Family 2-port SATA Controller 2 [IDE mode]
8c09 8 Series/C220 Series Chipset Family 2-port SATA Controller 2 [IDE mode]
8c0e 8 Series/C220 Series Chipset Family SATA Controller 1 [RAID mode]
8c0f 8 Series/C220 Series Chipset Family SATA Controller 1 [RAID mode]
8c10 8 Series/C220 Series Chipset Family PCI Express Root Port #1
 17aa 220e ThinkPad T440p
8c11 8 Series/C220 Series Chipset Family PCI Express Root Port #1
8c12 8 Series/C220 Series Chipset Family PCI Express Root Port #2
 17aa 220e ThinkPad T440p
8c13 8 Series/C220 Series Chipset Family PCI Express Root Port #2
8c14 8 Series/C220 Series Chipset Family PCI Express Root Port #3
8c15 8 Series/C220 Series Chipset Family PCI Express Root Port #3
8c16 8 Series/C220 Series Chipset Family PCI Express Root Port #4
8c17 8 Series/C220 Series Chipset Family PCI Express Root Port #4
8c18 8 Series/C220
Series Chipset Family PCI Express Root Port #5
8c19 8 Series/C220 Series Chipset Family PCI Express Root Port #5
8c1a 8 Series/C220 Series Chipset Family PCI Express Root Port #6
8c1b 8 Series/C220 Series Chipset Family PCI Express Root Port #6
8c1c 8 Series/C220 Series Chipset Family PCI Express Root Port #7
8c1d 8 Series/C220 Series Chipset Family PCI Express Root Port #7
8c1e 8 Series/C220 Series Chipset Family PCI Express Root Port #8
8c1f 8 Series/C220 Series Chipset Family PCI Express Root Port #8
8c20 8 Series/C220 Series Chipset High Definition Audio Controller
 103c 1909 ZBook 15
 17aa 220e ThinkPad T440p
 17aa 309f ThinkCentre M83
8c21 8 Series/C220 Series Chipset High Definition Audio Controller
8c22 8 Series/C220 Series Chipset Family SMBus Controller
 103c 1909 ZBook 15
 17aa 220e ThinkPad T440p
 17aa 309f ThinkCentre M83
8c23 8 Series Chipset Family CHAP Counters
8c24 8 Series Chipset Family Thermal Management Controller
8c26
 8 Series/C220 Series Chipset Family USB EHCI #1
 103c 1909 ZBook 15
 17aa 220e ThinkPad T440p
 17aa 2210 ThinkPad T540p
 17aa 309f ThinkCentre M83

2210 17aa ThinkPad T540p
8c2d 8 Series/C220 Series Chipset Family USB EHCI #2
103c 1909 ZBook 15
17aa 220e ThinkPad T440p
17aa 309f ThinkCentre M83
8c31 8 Series/C220 Series Chipset Family USB xHCI
103c 1909 ZBook 15
17aa 220e ThinkPad T440p
17aa 309f ThinkCentre M83
8c33 8 Series/C220 Series Chipset Family LAN Controller
8c34 8 Series/C220 Series Chipset Family NAND Controller
8c3a 8 Series/C220 Series Chipset Family MEI Controller #1
103c 1909 ZBook 15
17aa 220e ThinkPad T440p
17aa 309f ThinkCentre M83
8c3b 8 Series/C220 Series Chipset Family MEI Controller #2
8c3c 8 Series/C220 Series Chipset Family IDE-r Controller
8c3d 8 Series/C220 Series Chipset Family KT Controller
8c40 8 Series/C220 Series Chipset Family LPC Controller
8c41 8 Series Chipset Family Mobile Super SKU LPC Controller
8c42
8 Series/C220 Series Chipset Family Desktop Super SKU LPC Controller
8c43 8 Series/C220 Series Chipset Family LPC Controller
8c44 Z87 Express LPC Controller
8c45 8 Series/C220 Series Chipset Family LPC Controller
8c46 Z85 Express LPC Controller
8c47 8 Series/C220 Series Chipset Family LPC Controller
8c48 8 Series/C220 Series Chipset Family LPC Controller
8c49 HM86 Express LPC Controller
8c4a H87 Express LPC Controller
8c4b HM87 Express LPC Controller
8c4c Q85 Express LPC Controller
17aa 309f ThinkCentre M83
8c4d 8 Series/C220 Series Chipset Family LPC Controller
8c4e Q87 Express LPC Controller
8c4f QM87 Express LPC Controller
103c 1909 ZBook 15
17aa 220e ThinkPad T440p
8c50 B85 Express LPC Controller
8c51 8 Series/C220 Series Chipset Family LPC Controller
8c52 C222 Series Chipset Family Server Essential SKU LPC Controller
8c53 8 Series/C220 Series Chipset Family LPC Controller
8c54 C224 Series Chipset Family Server Standard SKU LPC
Controller
8c55 8 Series/C220 Series Chipset Family LPC Controller
8c56 C226 Series Chipset Family Server Advanced SKU LPC Controller
8c57 8 Series/C220 Series Chipset Family LPC Controller
8c58 8 Series/C220 Series Chipset Family WS SKU LPC Controller

8c59 8 Series/C220 Series Chipset Family LPC Controller
8c5a 8 Series/C220 Series Chipset Family LPC Controller
8c5b 8 Series/C220 Series Chipset Family LPC Controller
8c5c H81 Express LPC Controller
8c5d 8 Series/C220 Series Chipset Family LPC Controller
8c5e 8 Series/C220 Series Chipset Family LPC Controller
8c5f 8 Series/C220 Series Chipset Family LPC Controller
8c80 9 Series Chipset Family SATA Controller [IDE Mode]
8c81 9 Series Chipset Family SATA Controller [IDE Mode]
8c82 9 Series Chipset Family SATA Controller [AHCI Mode]
8c83 9 Series Chipset Family SATA Controller [AHCI Mode]
8c84 9 Series Chipset Family SATA Controller [RAID Mode]
8c85 9 Series Chipset Family SATA Controller [RAID Mode]
8c86
9 Series Chipset Family SATA Controller [RAID Mode]
8c87 9 Series Chipset Family SATA Controller [RAID Mode]
8c88 9 Series Chipset Family SATA Controller [IDE Mode]
8c89 9 Series Chipset Family SATA Controller [IDE Mode]
8c8e 9 Series Chipset Family SATA Controller [RAID Mode]
8c8f 9 Series Chipset Family SATA Controller [RAID Mode]
8c90 9 Series Chipset Family PCI Express Root Port 1
8c92 9 Series Chipset Family PCI Express Root Port 2
8c94 9 Series Chipset Family PCI Express Root Port 3
8c96 9 Series Chipset Family PCI Express Root Port 4
8c98 9 Series Chipset Family PCI Express Root Port 5
8c9a 9 Series Chipset Family PCI Express Root Port 6
8c9c 9 Series Chipset Family PCI Express Root Port 7
8c9e 9 Series Chipset Family PCI Express Root Port 8
8ca0 9 Series Chipset Family HD Audio Controller
8ca2 9 Series Chipset Family SMBus Controller
8ca4 9 Series Chipset Family Thermal Controller
8ca6 9 Series Chipset Family USB EHCI Controller #1
8cad
9 Series Chipset Family USB EHCI Controller #2
8cb1 9 Series Chipset Family USB xHCI Controller
8cb3 9 Series Chipset Family LAN Controller
8cba 9 Series Chipset Family ME Interface #1
8cbb 9 Series Chipset Family ME Interface #2
8cbc 9 Series Chipset Family IDE-R Controller
8cbd 9 Series Chipset Family KT Controller
8cc1 9 Series Chipset Family LPC Controller
8cc2 9 Series Chipset Family LPC Controller
8cc3 HM97 Chipset LPC Controller
8cc4 Z97 Chipset LPC Controller
8cc5 QM97 Chipset LPC Controller
8cc6 H97 Chipset LPC Controller
8d00 C610/X99 series chipset 4-port SATA Controller [IDE mode]
8d02 C610/X99 series chipset 6-Port SATA Controller [AHCI mode]

8d04 C610/X99 series chipset SATA Controller [RAID mode]
8d06 C610/X99 series chipset SATA Controller [RAID mode]
 17aa 1031 ThinkServer RAID 110i
8d08 C610/X99 series chipset 2-port SATA Controller [IDE mode]
8d0e C610/X99 series chipset SATA Controller [RAID mode]
8d10 C610/X99 series chipset
PCI Express Root Port #1
8d11 C610/X99 series chipset PCI Express Root Port #1
8d12 C610/X99 series chipset PCI Express Root Port #2
8d13 C610/X99 series chipset PCI Express Root Port #2
8d14 C610/X99 series chipset PCI Express Root Port #3
8d15 C610/X99 series chipset PCI Express Root Port #3
8d16 C610/X99 series chipset PCI Express Root Port #4
8d17 C610/X99 series chipset PCI Express Root Port #4
8d18 C610/X99 series chipset PCI Express Root Port #5
8d19 C610/X99 series chipset PCI Express Root Port #5
8d1a C610/X99 series chipset PCI Express Root Port #6
8d1b C610/X99 series chipset PCI Express Root Port #6
8d1c C610/X99 series chipset PCI Express Root Port #7
8d1d C610/X99 series chipset PCI Express Root Port #7
8d1e C610/X99 series chipset PCI Express Root Port #8
8d1f C610/X99 series chipset PCI Express Root Port #8
8d20 C610/X99 series chipset HD Audio Controller
8d21 C610/X99 series chipset HD Audio Controller
8d22 C610/X99 series chipset SMBus
Controller
 15d9 0832 X10SRL-F
8d24 C610/X99 series chipset Thermal Subsystem
8d26 C610/X99 series chipset USB Enhanced Host Controller #1
 15d9 0832 X10SRL-F
8d2d C610/X99 series chipset USB Enhanced Host Controller #2
 15d9 0832 X10SRL-F
8d31 C610/X99 series chipset USB xHCI Host Controller
 15d9 0832 X10SRL-F
8d33 C610/X99 series chipset LAN Controller
8d34 C610/X99 series chipset NAND Controller
8d3a C610/X99 series chipset MEI Controller #1
 15d9 0832 X10SRL-F
8d3b C610/X99 series chipset MEI Controller #2
 15d9 0832 X10SRL-F
8d3c C610/X99 series chipset IDE-r Controller
8d3d C610/X99 series chipset KT Controller
8d40 C610/X99 series chipset LPC Controller
8d41 C610/X99 series chipset LPC Controller
8d42 C610/X99 series chipset LPC Controller
8d43 C610/X99 series chipset LPC Controller
8d44 C610/X99 series chipset LPC Controller
 15d9 0832 X10SRL-F

8d45 C610/X99 series chipset LPC Controller
8d46 C610/X99 series chipset LPC Controller
8d47
 C610/X99 series chipset LPC Controller
8d48 C610/X99 series chipset LPC Controller
8d49 C610/X99 series chipset LPC Controller
8d4a C610/X99 series chipset LPC Controller
8d4b C610/X99 series chipset LPC Controller
8d4c C610/X99 series chipset LPC Controller
8d4d C610/X99 series chipset LPC Controller
8d4e C610/X99 series chipset LPC Controller
8d4f C610/X99 series chipset LPC Controller
8d60 C610/X99 series chipset sSATA Controller [IDE mode]
8d62 C610/X99 series chipset sSATA Controller [AHCI mode]
8d64 C610/X99 series chipset sSATA Controller [RAID mode]
8d66 C610/X99 series chipset sSATA Controller [RAID mode]
8d68 C610/X99 series chipset sSATA Controller [IDE mode]
8d6e C610/X99 series chipset sSATA Controller [RAID mode]
8d7c C610/X99 series chipset SPSR
 15d9 0832 X10SRL-F
8d7d C610/X99 series chipset MS SMBus 0
8d7e C610/X99 series chipset MS SMBus 1
8d7f C610/X99 series chipset MS SMBus 2
9000 IXP2000 Family Network Processor
9001
 IXP2400 Network Processor
9002 IXP2300 Network Processor
9004 IXP2800 Network Processor
9621 Integrated RAID
9622 Integrated RAID
9641 Integrated RAID
96a1 Integrated RAID
9a0b Volume Management Device NVMe RAID Controller
9b41 UHD Graphics
9b54 10th Gen Core Processor Host Bridge/DRAM Registers
9b64 10th Gen Core Processor Host Bridge/DRAM Registers
9bc4 UHD Graphics
9c00 8 Series SATA Controller 1 [IDE mode]
9c01 8 Series SATA Controller 1 [IDE mode]
9c02 8 Series SATA Controller 1 [AHCI mode]
9c03 8 Series SATA Controller 1 [AHCI mode]
 17aa 2214 ThinkPad X240
9c04 8 Series SATA Controller 1 [RAID mode]
9c05 8 Series SATA Controller 1 [RAID mode]
9c06 8 Series SATA Controller 1 [RAID mode]
9c07 8 Series SATA Controller 1 [RAID mode]
9c08 8 Series SATA Controller 2 [IDE mode]
9c09 8 Series SATA Controller 2 [IDE mode]

9c0a 8 Series SATA Controller [Reserved]
9c0b 8 Series SATA Controller [Reserved]
9c0c 8 Series SATA Controller
[Reserved]
9c0d 8 Series SATA Controller [Reserved]
9c0e 8 Series SATA Controller 1 [RAID mode]
9c0f 8 Series SATA Controller 1 [RAID mode]
9c10 8 Series PCI Express Root Port 1
9c11 8 Series PCI Express Root Port 1
9c12 8 Series PCI Express Root Port 2
9c13 8 Series PCI Express Root Port 2
9c14 8 Series PCI Express Root Port 3
9c15 8 Series PCI Express Root Port 3
9c16 8 Series PCI Express Root Port 4
9c17 8 Series PCI Express Root Port 4
9c18 8 Series PCI Express Root Port 5
9c19 8 Series PCI Express Root Port 5
9c1a 8 Series PCI Express Root Port 6
9c1b 8 Series PCI Express Root Port 6
9c1c 8 Series PCI Express Root Port 7
9c1d 8 Series PCI Express Root Port 7
9c1e 8 Series PCI Express Root Port 8
9c1f 8 Series PCI Express Root Port 8
9c20 8 Series HD Audio Controller
 17aa 2214 ThinkPad X240
9c21 8 Series HD Audio Controller
9c22 8 Series SMBus Controller
 17aa 2214 ThinkPad X240
9c23 8 Series CHAP Counters
9c24 8 Series Thermal
9c26
 8 Series USB EHCI #1
 17aa 220c T440s
 17aa 2214 ThinkPad X240
9c2d 8 Series USB EHCI #2
9c31 8 Series USB xHCI HC
 17aa 2214 ThinkPad X240
 8086 7270 Apple MacBookAir6,2 / MacBookPro11,1
9c35 8 Series SDIO Controller
9c36 8 Series Audio DSP Controller
9c3a 8 Series HECI #0
 17aa 2214 ThinkPad X240
9c3b 8 Series HECI #1
9c3c 8 Series HECI IDER
9c3d 8 Series HECI KT
9c40 8 Series LPC Controller
9c41 8 Series LPC Controller
9c42 8 Series LPC Controller

9c43 8 Series LPC Controller
17aa 2214 ThinkPad X240
9c44 8 Series LPC Controller
9c45 8 Series LPC Controller
9c46 8 Series LPC Controller
9c47 8 Series LPC Controller
9c60 8 Series Low Power Sub-System DMA
9c61 8 Series I2C Controller #0
9c62 8 Series I2C Controller #1
9c63 8 Series UART Controller #0
9c64 8 Series UART Controller #1
9c65 8 Series SPI Controller #0
9c66 8 Series SPI Controller #1
9c83 Wildcat Point-LP SATA Controller [AHCI Mode]
9c85 Wildcat Point-LP
SATA Controller [RAID Mode]
9c87 Wildcat Point-LP SATA Controller [RAID Mode]
9c8f Wildcat Point-LP SATA Controller [RAID Mode]
9c90 Wildcat Point-LP PCI Express Root Port #1
9c92 Wildcat Point-LP PCI Express Root Port #2
9c94 Wildcat Point-LP PCI Express Root Port #3
9c96 Wildcat Point-LP PCI Express Root Port #4
9c98 Wildcat Point-LP PCI Express Root Port #5
9c9a Wildcat Point-LP PCI Express Root Port #6
9ca0 Wildcat Point-LP High Definition Audio Controller
9ca2 Wildcat Point-LP SMBus Controller
9ca4 Wildcat Point-LP Thermal Management Controller
9ca6 Wildcat Point-LP USB EHCI Controller
9cb1 Wildcat Point-LP USB xHCI Controller
9cb5 Wildcat Point-LP Secure Digital IO Controller
9cb6 Wildcat Point-LP Smart Sound Technology Controller
9cba Wildcat Point-LP MEI Controller #1
9cbb Wildcat Point-LP MEI Controller #2
9cbc Wildcat Point-LP IDE-r Controller
9cbd Wildcat Point-LP KT Controller
9cc1 Wildcat Point-LP LPC Controller
9cc2 Wildcat Point-LP
LPC Controller
9cc3 Wildcat Point-LP LPC Controller
9cc5 Wildcat Point-LP LPC Controller
9cc6 Wildcat Point-LP LPC Controller
9cc7 Wildcat Point-LP LPC Controller
9cc9 Wildcat Point-LP LPC Controller
9ce0 Wildcat Point-LP Serial IO DMA Controller
9ce1 Wildcat Point-LP Serial IO I2C Controller #0
9ce2 Wildcat Point-LP Serial IO I2C Controller #1
9ce3 Wildcat Point-LP Serial IO UART Controller #0
9ce4 Wildcat Point-LP Serial IO UART Controller #1

9ce5 Wildcat Point-LP Serial IO GSPI Controller #0
9ce6 Wildcat Point-LP Serial IO GSPI Controller #1
9d03 Sunrise Point-LP SATA Controller [AHCI mode]
 1025 115f Acer Aspire E5-575G
 1028 06dc Latitude E7470
 1028 06f3 Latitude 3570
 103c 8079 EliteBook 840 G3
 17aa 225d ThinkPad T480
 17aa 382a B51-80 Laptop
9d10 Sunrise Point-LP PCI Express Root Port #1
9d11 Sunrise Point-LP PCI Express Root Port #2
9d12 Sunrise Point-LP PCI Express Root Port #3
9d13 Sunrise Point-LP PCI Express Root Port #4
9d14
 Sunrise Point-LP PCI Express Root Port #5
 17aa 382a B51-80 Laptop
9d15 Sunrise Point-LP PCI Express Root Port #6
 17aa 382a B51-80 Laptop
9d16 Sunrise Point-LP PCI Express Root Port #7
9d17 Sunrise Point-LP PCI Express Root Port #8
9d18 Sunrise Point-LP PCI Express Root Port #9
 17aa 382a B51-80 Laptop
9d19 Sunrise Point-LP PCI Express Root Port #10
9d1a Sunrise Point-LP PCI Express Root Port #11
9d21 Sunrise Point-LP PMC
 1025 115f Acer Aspire E5-575G
 1028 06dc Latitude E7470
 1028 06f3 Latitude 3570
 103c 8079 EliteBook 840 G3
 17aa 224f ThinkPad X1 Carbon 5th Gen
 17aa 225d ThinkPad T480
 17aa 382a B51-80 Laptop
9d23 Sunrise Point-LP SMBus
 1025 115f Acer Aspire E5-575G
 1028 06dc Latitude E7470
 1028 06f3 Latitude 3570
 103c 8079 EliteBook 840 G3
 17aa 2247 ThinkPad T570
 17aa 224f ThinkPad X1 Carbon 5th Gen
 17aa 225d ThinkPad T480
 17aa 382a B51-80 Laptop
9d27 Sunrise Point-LP Serial IO UART Controller #0
9d28 Sunrise
Point-LP Serial IO UART Controller #1
9d29 Sunrise Point-LP Serial IO SPI Controller #0
9d2a Sunrise Point-LP Serial IO SPI Controller #1
9d2d Sunrise Point-LP Secure Digital IO Controller
9d2f Sunrise Point-LP USB 3.0 xHCI Controller

1025 115f Acer Aspire E5-575G
1028 06dc Latitude E7470
1028 06f3 Latitude 3570
103c 8079 EliteBook 840 G3
17aa 2247 ThinkPad T570
17aa 225d ThinkPad T480
17aa 382a B51-80 Laptop
9d31 Sunrise Point-LP Thermal subsystem
1025 115f Acer Aspire E5-575G
1028 06dc Latitude E7470
1028 06f3 Latitude 3570
103c 8079 EliteBook 840 G3
17aa 2247 ThinkPad T570
17aa 224f ThinkPad X1 Carbon 5th Gen
17aa 225d ThinkPad T480
17aa 382a B51-80 Laptop
9d35 Sunrise Point-LP Integrated Sensor Hub
9d3a Sunrise Point-LP CSME HECI #1
1025 115f Acer Aspire E5-575G
1028 06dc Latitude E7470
1028 06f3 Latitude 3570
103c 8079 EliteBook 840 G3
17aa 2247 ThinkPad T570
17aa 224f ThinkPad X1 Carbon 5th Gen
17aa
225d ThinkPad T480
17aa 382a B51-80 Laptop
9d3d Sunrise Point-LP Active Management Technology - SOL
103c 8079 EliteBook 840 G3
9d43 Sunrise Point-LP LPC Controller
17aa 382a B51-80 Laptop
9d48 Sunrise Point-LP LPC Controller
1028 06dc Latitude E7470
1028 06f3 Latitude 3570
103c 8079 EliteBook 840 G3
9d4e Sunrise Point LPC Controller/eSPI Controller
17aa 225d ThinkPad T480
9d50 Sunrise Point LPC Controller
9d56 Sunrise Point-LP LPC Controller
9d58 Sunrise Point-LP LPC Controller
1025 115f Acer Aspire E5-575G
17aa 2247 ThinkPad T570
17aa 224f ThinkPad X1 Carbon 5th Gen
9d60 Sunrise Point-LP Serial IO I2C Controller #0
1025 115f Acer Aspire E5-575G
1028 06f3 Latitude 3570
103c 8079 EliteBook 840 G3
17aa 225d ThinkPad T480

8086 9d60 100 Series PCH/Sunrise Point PCH I2C0 [Skylake/Kaby Lake LPSS I2C]
9d61 Sunrise Point-LP Serial IO I2C Controller #1
9d62 Sunrise Point-LP Serial IO I2C Controller #2
9d63 Sunrise Point-LP Serial
IO I2C Controller #3
9d64 Sunrise Point-LP Serial IO I2C Controller #4
9d65 Sunrise Point-LP Serial IO I2C Controller #5
9d66 Sunrise Point-LP Serial IO UART Controller #2
9d70 Sunrise Point-LP HD Audio
1028 06dc Latitude E7470
1028 06f3 Latitude 3570
103c 8079 EliteBook 840 G3
17aa 382a B51-80 Laptop
9d71 Sunrise Point-LP HD Audio
1025 1094 Acer Aspire E5-575G
17aa 224f ThinkPad X1 Carbon 5th Gen
17aa 225d ThinkPad T480
9d84 Cannon Point-LP LPC Controller
1028 089e Inspiron 5482
9da3 Cannon Point-LP SMBus Controller
9da4 Cannon Point-LP SPI Controller
9db0 Cannon Point-LP PCI Express Root Port #9
9db1 Cannon Point-LP PCI Express Root Port #10
9db2 Cannon Point-LP PCI Express Root Port #1
9db4 Cannon Point-LP PCI Express Root Port #13
1028 089e Inspiron 5482
9db6 Cannon Point-LP PCI Express Root Port #15
9db8 Cannon Point-LP PCI Express Root Port #1
9dbc Cannon Point-LP PCI Express Root Port #5
9dbe Cannon Point-LP PCI Express
Root Port #7
9dbf Cannon Point PCI Express Root Port #8
9dc5 Cannon Point-LP Serial IO I2C Host Controller
9dc8 Cannon Point-LP High Definition Audio Controller
1028 089e Inspiron 5482
9dd3 Cannon Point-LP SATA Controller [AHCI Mode]
9de0 Cannon Point-LP MEI Controller #1
9de3 Cannon Point-LP Keyboard and Text (KT) Redirection
9de8 Cannon Point-LP Serial IO I2C Controller #0
1028 089e Inspiron 5482
9de9 Cannon Point-LP Serial IO I2C Controller #1
1028 089e Inspiron 5482
9ded Cannon Point-LP USB 3.1 xHCI Controller
9def Cannon Point-LP Shared SRAM
9df0 Cannon Point-LP CNVi [Wireless-AC]
9df5 BayHubTech Integrated SD controller
9df9 Cannon Point-LP Thermal Controller
9dfc Cannon Point-LP Integrated Sensor Hub

a000 Atom Processor D4xx/D5xx/N4xx/N5xx DMI Bridge
 1458 5000 GA-D525TUD
 8086 4f4d DeskTop Board D510MO
 8086 544b Desktop Board D425KT
a001 Atom Processor D4xx/D5xx/N4xx/N5xx Integrated Graphics Controller
 1458 d000 GA-D525TUD
 8086
4f4d DeskTop Board D510MO
 8086 544b Desktop Board D425KT
a002 Atom Processor D4xx/D5xx/N4xx/N5xx Integrated Graphics Controller
a003 Atom Processor D4xx/D5xx/N4xx/N5xx CHAPS counter
a010 Atom Processor D4xx/D5xx/N4xx/N5xx DMI Bridge
 1043 83ac Eee PC 1015PX
 144d c072 Notebook N150P
a011 Atom Processor D4xx/D5xx/N4xx/N5xx Integrated Graphics Controller
 1043 83ac Eee PC 1015PX
 144d c072 Notebook N150P
a012 Atom Processor D4xx/D5xx/N4xx/N5xx Integrated Graphics Controller
 1043 83ac Eee PC 1015PX
 144d c072 Notebook N150P
a013 Atom Processor D4xx/D5xx/N4xx/N5xx CHAPS counter
a102 Q170/Q150/B150/H170/H110/Z170/CM236 Chipset SATA Controller [AHCI Mode]
a103 HM170/QM170 Chipset SATA Controller [AHCI Mode]
 1028 06e4 XPS 15 9550
 103c 825b OMEN-17-w001nv
a105 Sunrise Point-H SATA Controller [RAID mode]
a106 Q170/H170/Z170/CM236 Chipset SATA Controller [RAID Mode]
a107 HM170/QM170 Chipset SATA Controller [RAID Mode]
a10f Sunrise Point-H SATA
Controller [RAID mode]
a110 100 Series/C230 Series Chipset Family PCI Express Root Port #1
a111 100 Series/C230 Series Chipset Family PCI Express Root Port #2
a112 100 Series/C230 Series Chipset Family PCI Express Root Port #3
a113 100 Series/C230 Series Chipset Family PCI Express Root Port #4
a114 100 Series/C230 Series Chipset Family PCI Express Root Port #5
a115 100 Series/C230 Series Chipset Family PCI Express Root Port #6
a116 100 Series/C230 Series Chipset Family PCI Express Root Port #7
a117 100 Series/C230 Series Chipset Family PCI Express Root Port #8
a118 100 Series/C230 Series Chipset Family PCI Express Root Port #9
a119 100 Series/C230 Series Chipset Family PCI Express Root Port #10
a11a 100 Series/C230 Series Chipset Family PCI Express Root Port #11
a11b 100 Series/C230 Series Chipset Family PCI Express Root Port #12
a11c 100 Series/C230 Series Chipset Family PCI Express Root Port #13
a11d 100 Series/C230 Series Chipset Family PCI Express Root
Port #14
a11e 100 Series/C230 Series Chipset Family PCI Express Root Port #15
a11f 100 Series/C230 Series Chipset Family PCI Express Root Port #16
a120 100 Series/C230 Series Chipset Family P2SB

a121 100 Series/C230 Series Chipset Family Power Management Controller
 1028 06e4 XPS 15 9550
 103c 825b OMEN-17-w001nv
a122 Sunrise Point-H cAVS
a123 100 Series/C230 Series Chipset Family SMBus
 1028 06e4 XPS 15 9550
 103c 825b OMEN-17-w001nv
a124 100 Series/C230 Series Chipset Family SPI Controller
a125 100 Series/C230 Series Chipset Family Gigabit Ethernet Controller
a126 100 Series/C230 Series Chipset Family Trace Hub
a127 100 Series/C230 Series Chipset Family Serial IO UART #0
a128 100 Series/C230 Series Chipset Family Serial IO UART #1
a129 100 Series/C230 Series Chipset Family Serial IO GSPI #0
a12a 100 Series/C230 Series Chipset Family Serial IO GSPI #1
a12f 100 Series/C230 Series Chipset Family USB 3.0 xHCI Controller
 1028 06e4 XPS 15 9550
 103c
825b OMEN-17-w001nv
a130 100 Series/C230 Series Chipset Family USB Device Controller (OTG)
a131 100 Series/C230 Series Chipset Family Thermal Subsystem
 1028 06e4 XPS 15 9550
 103c 825b OMEN-17-w001nv
a133 Sunrise Point-H Northpeak ACPI Function
a135 100 Series/C230 Series Chipset Family Integrated Sensor Hub
a13a 100 Series/C230 Series Chipset Family MEI Controller #1
 1028 06e4 XPS 15 9550
 103c 825b OMEN-17-w001nv
a13b 100 Series/C230 Series Chipset Family MEI Controller #2
a13c 100 Series/C230 Series Chipset Family IDE Redirection
a13d 100 Series/C230 Series Chipset Family KT Redirection
a13e 100 Series/C230 Series Chipset Family MEI Controller #3
a140 Sunrise Point-H LPC Controller
a141 Sunrise Point-H LPC Controller
a142 Sunrise Point-H LPC Controller
a143 H110 Chipset LPC/eSPI Controller
a144 H170 Chipset LPC/eSPI Controller
a145 Z170 Chipset LPC/eSPI Controller
a146 Q170 Chipset LPC/eSPI Controller
a147 Q150 Chipset LPC/eSPI Controller
a148
 B150 Chipset LPC/eSPI Controller
a149 C236 Chipset LPC/eSPI Controller
a14a C232 Chipset LPC/eSPI Controller
a14b Sunrise Point-H LPC Controller
a14c Sunrise Point-H LPC Controller
a14d QM170 Chipset LPC/eSPI Controller
a14e HM170 Chipset LPC/eSPI Controller
 1028 06e4 XPS 15 9550

103c 825b OMEN-17-w001nv
a14f Sunrise Point-H LPC Controller
a150 CM236 Chipset LPC/eSPI Controller
a151 Sunrise Point-H LPC Controller
a152 HM175 Chipset LPC/eSPI Controller
a153 QM175 Chipset LPC/eSPI Controller
a154 CM238 Chipset LPC/eSPI Controller
a155 Sunrise Point-H LPC Controller
a156 Sunrise Point-H LPC Controller
a157 Sunrise Point-H LPC Controller
a158 Sunrise Point-H LPC Controller
a159 Sunrise Point-H LPC Controller
a15a Sunrise Point-H LPC Controller
a15b Sunrise Point-H LPC Controller
a15c Sunrise Point-H LPC Controller
a15d Sunrise Point-H LPC Controller
a15e Sunrise Point-H LPC Controller
a15f Sunrise Point-H LPC Controller
a160 100
Series/C230 Series Chipset Family Serial IO I2C Controller #0
1028 06e4 XPS 15 9550
103c 825b OMEN-17-w001nv
a161 100 Series/C230 Series Chipset Family Serial IO I2C Controller #1
1028 06e4 XPS 15 9550
a162 100 Series/C230 Series Chipset Family Serial IO I2C Controller #2
a163 100 Series/C230 Series Chipset Family Serial IO I2C Controller #3
a166 100 Series/C230 Series Chipset Family Serial IO UART Controller #2
a167 100 Series/C230 Series Chipset Family PCI Express Root Port #17
a168 100 Series/C230 Series Chipset Family PCI Express Root Port #18
a169 100 Series/C230 Series Chipset Family PCI Express Root Port #19
a16a 100 Series/C230 Series Chipset Family PCI Express Root Port #20
a170 100 Series/C230 Series Chipset Family HD Audio Controller
1028 06e4 XPS 15 9550
103c 825b OMEN-17-w001nv
a171 CM238 HD Audio Controller
a182 C620 Series Chipset Family SATA Controller [AHCI mode]
a186 C620 Series Chipset Family SATA Controller [RAID mode]
a190
C620 Series Chipset Family PCI Express Root Port #1
a191 C620 Series Chipset Family PCI Express Root Port #2
a192 C620 Series Chipset Family PCI Express Root Port #3
a193 C620 Series Chipset Family PCI Express Root Port #4
a194 C620 Series Chipset Family PCI Express Root Port #5
a195 C620 Series Chipset Family PCI Express Root Port #6
a196 C620 Series Chipset Family PCI Express Root Port #7
a197 C620 Series Chipset Family PCI Express Root Port #8
a198 C620 Series Chipset Family PCI Express Root Port #9
a199 C620 Series Chipset Family PCI Express Root Port #10

a19a C620 Series Chipset Family PCI Express Root Port #11
a19b C620 Series Chipset Family PCI Express Root Port #12
a19c C620 Series Chipset Family PCI Express Root Port #13
a19d C620 Series Chipset Family PCI Express Root Port #14
a19e C620 Series Chipset Family PCI Express Root Port #15
a19f C620 Series Chipset Family PCI Express Root Port #16
a1a0 C620 Series Chipset Family P2SB
a1a1 C620 Series
Chipset Family Power Management Controller
 15d9 095d X11SPM-TF
a1a2 C620 Series Chipset Family cAVS
a1a3 C620 Series Chipset Family SMBus
 15d9 095d X11SPM-TF
a1a4 C620 Series Chipset Family SPI Controller
 15d9 095d X11SPM-TF
a1a6 C620 Series Chipset Family Trace Hub
a1af C620 Series Chipset Family USB 3.0 xHCI Controller
 15d9 095d X11SPM-TF
a1b1 C620 Series Chipset Family Thermal Subsystem
 15d9 095d X11SPM-TF
a1ba C620 Series Chipset Family MEI Controller #1
 15d9 095d X11SPM-TF
a1bb C620 Series Chipset Family MEI Controller #2
 15d9 095d X11SPM-TF
a1bc C620 Series Chipset Family IDE Redirection
a1bd C620 Series Chipset Family KT Redirection
a1be C620 Series Chipset Family MEI Controller #3
 15d9 095d X11SPM-TF
a1c1 C621 Series Chipset LPC/eSPI Controller
a1c2 C622 Series Chipset LPC/eSPI Controller
 15d9 095d X11SPM-TF
a1c3 C624 Series Chipset LPC/eSPI Controller
a1c4 C625 Series Chipset LPC/eSPI Controller
a1c5 C626 Series Chipset
LPC/eSPI Controller
a1c6 C627 Series Chipset LPC/eSPI Controller
a1c7 C628 Series Chipset LPC/eSPI Controller
a1d2 C620 Series Chipset Family SSATA Controller [AHCI mode]
a1d6 C620 Series Chipset Family SSATA Controller [RAID mode]
a1e7 C620 Series Chipset Family PCI Express Root Port #17
a1e8 C620 Series Chipset Family PCI Express Root Port #18
a1e9 C620 Series Chipset Family PCI Express Root Port #19
a1ea C620 Series Chipset Family PCI Express Root Port #20
a1ec C620 Series Chipset Family MROM 0
a1ed C620 Series Chipset Family MROM 1
a1f8 Lewisburg IE: HECI #1
a1f9 Lewisburg IE: HECI #2
a1fa Lewisburg IE: IDE-r

a1fb Lewisburg IE: KT Controller
a1fc Lewisburg IE: HECI #3
a202 Lewisburg SATA Controller [AHCI mode]
a206 Lewisburg SATA Controller [RAID mode]
a223 Lewisburg SMBus
a224 Lewisburg SPI Controller
a242 Lewisburg LPC or eSPI Controller
a243 Lewisburg LPC or eSPI Controller
a252 Lewisburg SSATA Controller [AHCI mode]
a256 Lewisburg
SSATA Controller [RAID mode]
a282 200 Series PCH SATA controller [AHCI mode]
a286 200 Series PCH SATA controller [RAID mode]
a290 200 Series PCH PCI Express Root Port #1
a291 200 Series PCH PCI Express Root Port #2
a292 200 Series PCH PCI Express Root Port #3
a293 200 Series PCH PCI Express Root Port #4
a294 200 Series PCH PCI Express Root Port #5
a295 200 Series PCH PCI Express Root Port #6
a296 200 Series PCH PCI Express Root Port #7
a297 200 Series PCH PCI Express Root Port #8
a298 200 Series PCH PCI Express Root Port #9
a299 200 Series PCH PCI Express Root Port #10
a29a 200 Series PCH PCI Express Root Port #11
a29b 200 Series PCH PCI Express Root Port #12
a29c 200 Series PCH PCI Express Root Port #13
a29d 200 Series PCH PCI Express Root Port #14
a29e 200 Series PCH PCI Express Root Port #15
a29f 200 Series PCH PCI Express Root Port #16
a2a0 200 Series/Z370 Chipset Family P2SB
a2a1 200 Series/Z370 Chipset Family Power Management Controller
a2a3
 200 Series/Z370 Chipset Family SMBus Controller
a2a4 200 Series/Z370 Chipset Family SPI Controller
a2a5 200 Series/Z370 Chipset Family Gigabit Ethernet Controller
a2a6 200 Series/Z370 Chipset Family Trace Hub
a2a7 200 Series/Z370 Chipset Family Serial IO UART Controller #0
a2a8 200 Series/Z370 Chipset Family Serial IO UART Controller #1
a2a9 200 Series/Z370 Chipset Family Serial IO SPI Controller #0
a2aa 200 Series/Z370 Chipset Family Serial IO SPI Controller #1
a2af 200 Series/Z370 Chipset Family USB 3.0 xHCI Controller
a2b1 200 Series PCH Thermal Subsystem
a2ba 200 Series PCH CSME HECI #1
a2bb 200 Series PCH CSME HECI #2
a2c4 200 Series PCH LPC Controller (H270)
a2c5 200 Series PCH LPC Controller (Z270)
a2c6 200 Series PCH LPC Controller (Q270)
a2c7 200 Series PCH LPC Controller (Q250)

a2c8 200 Series PCH LPC Controller (B250)
a2c9 Z370 Chipset LPC/eSPI Controller
a2d2 X299 Chipset LPC/eSPI Controller
a2d3 C422 Chipset LPC/eSPI Controller
a2e0
200 Series PCH Serial IO I2C Controller #0
a2e1 200 Series PCH Serial IO I2C Controller #1
a2e2 200 Series PCH Serial IO I2C Controller #2
a2e3 200 Series PCH Serial IO I2C Controller #3
a2e6 200 Series PCH Serial IO UART Controller #2
a2e7 200 Series PCH PCI Express Root Port #17
a2e8 200 Series PCH PCI Express Root Port #18
a2e9 200 Series PCH PCI Express Root Port #19
a2ea 200 Series PCH PCI Express Root Port #20
a2eb 200 Series PCH PCI Express Root Port #21
a2ec 200 Series PCH PCI Express Root Port #22
a2ed 200 Series PCH PCI Express Root Port #23
a2ee 200 Series PCH PCI Express Root Port #24
a2f0 200 Series PCH HD Audio
a304 H370 Chipset LPC/eSPI Controller
a305 Z390 Chipset LPC/eSPI Controller
a306 Q370 Chipset LPC/eSPI Controller
a309 Cannon Point-LP LPC Controller
a30c QM370 Chipset LPC/eSPI Controller
a30d HM470 Chipset LPC/eSPI Controller
a323 Cannon Lake PCH SMBus Controller
a324 Cannon Lake PCH SPI Controller
a328 Cannon Lake
PCH Serial IO UART Host Controller
a32c Cannon Lake PCH PCI Express Root Port #21
a32d Cannon Lake PCH PCI Express Root Port #22
a32e Cannon Lake PCH PCI Express Root Port #23
a32f Cannon Lake PCH PCI Express Root Port #24
a330 Cannon Lake PCH PCI Express Root Port #9
a331 Cannon Lake PCH PCI Express Root Port #10
a332 Cannon Lake PCH PCI Express Root Port #11
a333 Cannon Lake PCH PCI Express Root Port #12
a334 Cannon Lake PCH PCI Express Root Port #13
a335 Cannon Lake PCH PCI Express Root Port #14
a336 Cannon Lake PCH PCI Express Root Port #15
a337 Cannon Lake PCH PCI Express Root Port #16
a338 Cannon Lake PCH PCI Express Root Port #1
a339 Cannon Lake PCH PCI Express Root Port #2
a33a Cannon Lake PCH PCI Express Root Port #3
a33b Cannon Lake PCH PCI Express Root Port #4
a33c Cannon Lake PCH PCI Express Root Port #5
a33d Cannon Lake PCH PCI Express Root Port #6
a33e Cannon Lake PCH PCI Express Root Port #7

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a33f  Cannon Lake PCH PCI Express Root
Port #8
a340  Cannon Lake PCH PCI Express Root Port #17
a341  Cannon Lake PCH PCI Express Root Port #18
a342  Cannon Lake PCH PCI Express Root Port #19
a343  Cannon Lake PCH PCI Express Root Port #20
a348  Cannon Lake PCH cAVS
a352  Cannon Lake PCH SATA AHCI Controller
a353  Cannon Lake Mobile PCH SATA AHCI Controller
a360  Cannon Lake PCH HECI Controller
a363  Cannon Lake PCH Active Management Technology - SOL
a364  Cannon Lake PCH HECI Controller #2
a368  Cannon Lake PCH Serial IO I2C Controller #0
a369  Cannon Lake PCH Serial IO I2C Controller #1
a36a  Cannon Lake PCH Serial IO I2C Controller #2
a36b  Cannon Lake PCH Serial IO I2C Controller #3
a36d  Cannon Lake PCH USB 3.1 xHCI Host Controller
a36f  Cannon Lake PCH Shared SRAM
a370  Wireless-AC 9560 [Jefferson Peak]
a379  Cannon Lake PCH Thermal Controller
a620  6400/6402 Advanced Memory Buffer (AMB)
abc0  Omni-Path Fabric Switch Silicon 100 Series
b152  21152 PCI-to-PCI Bridge
 8086 b152  21152 PCI-to-PCI Bridge
#
observed, and documented in Intel revision note; new mask of 1011:0026
b154  21154 PCI-to-PCI Bridge
b555  21555 Non transparent PCI-to-PCI Bridge
 12c7 5005  SS7HD PCI Adaptor Card
 12c7 5006  SS7HDC cPCI Adaptor Card
 12d9 000a  PCI VoIP Gateway
 4c53 1050  CT7 mainboard
 4c53 1051  CE7 mainboard
 e4bf 1000  CC8-1-BLUES
d130  Core Processor DMI
 15d9 0605  X8SIL
d131  Core Processor DMI
 1028 02da  OptiPlex 980
 15d9 060d  C7SIM-Q Motherboard
d132  Core Processor DMI
 1028 040b  Latitude E6510
d133  Core Processor DMI
d134  Core Processor DMI
d135  Core Processor DMI
d136  Core Processor DMI
d137  Core Processor DMI
d138  Core Processor PCI Express Root Port 1
 1028 02da  OptiPlex 980
```

1028 040b Latitude E6510
15d9 060d C7SIM-Q Motherboard
d139 Core Processor PCI Express Root Port 2
d13a Core Processor PCI Express Root Port 3
d13b Core Processor PCI Express Root Port 4
d150 Core Processor QPI Link
d151 Core Processor QPI Routing and Protocol
Registers
d155 Core Processor System Management Registers
d156 Core Processor Semaphore and Scratchpad Registers
d157 Core Processor System Control and Status Registers
d158 Core Processor Miscellaneous Registers
f1a5 SSD 600P Series
f1a6 SSD Pro 7600p/760p/E 6100p Series
8086 390b Intel Corporation SSD Pro 7600p/760p/E 6100p Series [NVM Express]
f1a8 SSD 660P Series
8088 Beijing Wangxun Technology Co., Ltd.
0101 WX1860A2 Gigabit Ethernet Controller
8088 0201 Dual-Port Ethernet Network Adaptor SF200T
0102 WX1860A2S Gigabit Ethernet Controller
8088 0210 Dual-Port Ethernet Network Adaptor SF200T-S
0103 WX1860A4 Gigabit Ethernet Controller
8088 0401 Qual-Port Ethernet Network Adaptor SF400T
8088 0440 Qual-Port Ethernet Network Adaptor SF400-OCP
0104 WX1860A4S Gigabit Ethernet Controller
8088 0410 Qual-Port Ethernet Network Adaptor SF400T-S
0105 WX1860AL2 Gigabit Ethernet Controller
8088 0202 Dual-Port Ethernet Network Adaptor SF200HT
0106
WX1860AL2S Gigabit Ethernet Controller
8088 0220 Dual-Port Ethernet Network Adaptor SF200HT-S
0107 WX1860AL4 Gigabit Ethernet Controller
8088 0402 Qual-Port Ethernet Network Adaptor SF400HT
0108 WX1860AL4S Gigabit Ethernet Controller
8088 0420 Qual-Port Ethernet Network Adaptor SF400HT-S
1001 Ethernet Controller RP1000 for 10GbE SFP+
8088 0000 Ethernet Network Adaptor RP1000 for 10GbE SFP+
2001 Ethernet Controller RP2000 for 10GbE SFP+
8088 2000 Ethernet Network Adaptor RP2000 for 10GbE SFP+
80ee InnoTek Systemberatung GmbH
beef VirtualBox Graphics Adapter
cafe VirtualBox Guest Service
8322 Sodick America Corp.
8384 SigmaTel
8401 TRENDware International Inc.
8686 ScaleMP
1010 vSMP Foundation controller [vSMP CTL]
1011 vSMP Foundation MEX/FLX controller [vSMP CTL]

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8800  Trigem Computer Inc.
 2008  Video assistant component
8866  T-Square Design Inc.
8888  Silicon Magic
8912  TRX
# 8c4a is not Winbond but there is a board misprogrammed
8c4a  Winbond
 1980
  W89C940 misprogrammed [ne2k]
8e0e  Computone Corporation
8e2e  KTI
 3000  ET32P2
9004  Adaptec
 0078  AHA-2940U_CN
 1078  AIC-7810
 1160  AIC-1160 [Family Fibre Channel Adapter]
 2178  AIC-7821
 3860  AHA-2930CU
 3b78  AHA-4844W/4844UW
 5075  AIC-755x
 5078  AIC-7850T/7856T [AVA-2902/4/6 / AHA-2910]
  9004 7850  AIC-7850T/7856T [AVA-290x / AHA-2910]
 5175  AIC-755x
 5178  AIC-7851
 5275  AIC-755x
 5278  AIC-7852
 5375  AIC-755x
 5378  AIC-7850
 5475  AIC-755x
 5478  AIC-7850
 5575  AVA-2930
 5578  AIC-7855
 5647  ANA-7711 TCP Offload Engine
  9004 7710  ANA-7711F TCP Offload Engine - Optical
  9004 7711  ANA-7711LP TCP Offload Engine - Copper
 5675  AIC-755x
 5678  AIC-7856
 5775  AIC-755x
 5778  AIC-7850
 5800  AIC-5800
 5900  ANA-5910/5930/5940 ATM155 & 25 LAN Adapter
 5905  ANA-5910A/5930A/5940A ATM Adapter
 6038  AIC-3860
 6075  AIC-1480 / APA-1480
  9004 7560  AIC-1480 / APA-1480 Cardbus
 6078  AIC-7860
 6178  AIC-7861
  9004 7861  AHA-2940AU Single
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6278 AIC-7860
6378 AIC-7860
6478
AIC-786x
6578 AIC-786x
6678 AIC-786x
6778 AIC-786x
6915 ANA620xx/ANA69011A
9004 0008 ANA69011A/TX 10/100
9004 0009 ANA69011A/TX 10/100
9004 0010 ANA62022 2-port 10/100
9004 0018 ANA62044 4-port 10/100
9004 0019 ANA62044 4-port 10/100
9004 0020 ANA62022 2-port 10/100
9004 0028 ANA69011A/TX 10/100
9004 8008 ANA69011A/TX 64 bit 10/100
9004 8009 ANA69011A/TX 64 bit 10/100
9004 8010 ANA62022 2-port 64 bit 10/100
9004 8018 ANA62044 4-port 64 bit 10/100
9004 8019 ANA62044 4-port 64 bit 10/100
9004 8020 ANA62022 2-port 64 bit 10/100
9004 8028 ANA69011A/TX 64 bit 10/100
7078 AHA-294x / AIC-7870
7178 AIC-7870P/7871 [AHA-2940/W/S76]
7278 AHA-3940/3940W / AIC-7872
7378 AHA-3985 / AIC-7873
7478 AHA-2944/2944W / AIC-7874
7578 AHA-3944/3944W / AIC-7875
7678 AHA-4944W/UW / AIC-7876
7710 ANA-7711F Network Accelerator Card (NAC) - Optical
7711 ANA-7711C Network Accelerator Card (NAC) - Copper
7778 AIC-787x
7810 AIC-7810
7815
AIC-7815 RAID+Memory Controller IC
9004 7815 ARO-1130U2 RAID Controller
9004 7840 AIC-7815 RAID+Memory Controller IC
7850 AIC-7850
7855 AHA-2930
7860 AIC-7860
7870 AIC-7870
7871 AHA-2940
7872 AHA-3940
7873 AHA-3980
7874 AHA-2944
7880 AIC-7880P
7890 AIC-7890
7891 AIC-789x

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7892  AIC-789x
7893  AIC-789x
7894  AIC-789x
7895  AHA-2940U/UW / AHA-39xx / AIC-7895
 9004 7890  AHA-2940U/2940UW Dual AHA-394xAU/AUW/AUWD AIC-7895B
 9004 7891  AHA-2940U/2940UW Dual
 9004 7892  AHA-3940AU/AUW/AUWD/UWD
 9004 7894  AHA-3944AUWD
 9004 7895  AHA-2940U/2940UW Dual AHA-394xAU/AUW/AUWD AIC-7895B
 9004 7896  AHA-2940U/2940UW Dual AHA-394xAU/AUW/AUWD AIC-7895B
 9004 7897  AHA-2940U/2940UW Dual AHA-394xAU/AUW/AUWD AIC-7895B
7896  AIC-789x
7897  AIC-789x
8078  AIC-7880U
 9004 7880  AIC-7880P Ultra/Ultra Wide SCSI Chipset
8178  AIC-7870P/7881U [AHA-2940U/UW/D/S76]
 9004 7881  AHA-2940UW SCSI Host Adapter
8278  AHA-3940U/UW/UWD / AIC-7882U
8378  AHA-3940U/UW
/ AIC-7883U
8478  AHA-2944UW / AIC-7884U
8578  AHA-3944U/UWD / AIC-7885
8678  AHA-4944UW / AIC-7886
8778  AHA-2940UW Pro / AIC-788x
 9004 7887  2940UW Pro Ultra-Wide SCSI Controller
8878  AHA-2930UW / AIC-7888
 9004 7888  AHA-2930UW SCSI Controller
8b78  ABA-1030
ec78  AHA-4944W/UW
# Acquired by Microchip Technology
9005  Adaptec
0010  AHA-2940U2/U2W
 9005 2180  AHA-2940U2 SCSI Controller
 9005 8100  AHA-2940U2B SCSI Controller
 9005 a100  AHA-2940U2B SCSI Controller
 9005 a180  AIC-3860Q [AHA-2940U2W/GE] SCSI Controller
 9005 e100  AHA-2950U2B SCSI Controller
0011  AHA-2930U2
0013  78902
 9005 0003  AAA-131U2 Array1000 1 Channel RAID Controller
 9005 000f  AIC7890_ARO
001f  AHA-2940U2/U2W / 7890/7891
 9005 000f  2940U2W SCSI Controller
 9005 a180  2940U2W SCSI Controller
0020  AIC-7890
002f  AIC-7890
0030  AIC-7890
003f  AIC-7890
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0050 AHA-3940U2x/395U2x
 9005 f500 AHA-3950U2B
 9005 ffff AHA-3950U2B
0051 AHA-3950U2D
 9005 b500 AHA-3950U2D
0053 AIC-7896
SCSI Controller
 9005 ffff AIC-7896 SCSI Controller mainboard implementation
005f AIC-7896U2/7897U2
0080 AIC-7892A U160/m
 0e11 e2a0 Compaq 64-Bit/66MHz Wide Ultra3 SCSI Adapter
 9005 6220 AHA-29160C
 9005 62a0 29160N Ultra160 SCSI Controller
 9005 e220 29160LP Low Profile Ultra160 SCSI Controller
 9005 e2a0 29160 Ultra160 SCSI Controller
0081 AIC-7892B U160/m
 9005 62a1 19160 Ultra160 SCSI Controller
0083 AIC-7892D U160/m
008f AIC-7892P U160/m
 1179 0001 Magnia Z310
 15d9 9005 Onboard SCSI Host Adapter
0092 AVC-2010 [VideoH!]
0093 AVC-2410 [VideoH!]
00c0 AHA-3960D / AIC-7899A U160/m
 0e11 f620 Compaq 64-Bit/66MHz Dual Channel Wide Ultra3 SCSI Adapter
 9005 f620 AHA-3960D U160/m
00c1 AIC-7899B U160/m
00c3 AIC-7899D U160/m
00c5 RAID subsystem HBA
 1028 00c5 PowerEdge 2400,2500,2550,4400
00cf AIC-7899P U160/m
 1028 00ce PowerEdge 1400
 1028 00d1 PowerEdge 2550
 1028 00d9 PowerEdge 2500
 10f1 2462 Thunder K7 S2462
 15d9 9005 Onboard
SCSI Host Adapter
 8086 3411 SDS2 Mainboard
0241 Serial ATA II RAID 1420SA
0242 Serial ATA II RAID 1220SA
0243 Serial ATA II RAID 1430SA
0244 eSATA II RAID 1225SA
0250 ServeRAID Controller
 1014 0279 ServeRAID 6M
 1014 028c ServeRAID 6i/6i+
 1014 028e ServeRAID 7k
0279 ServeRAID 6M
0283 AAC-RAID

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 9005 0283  Catapult
0284  AAC-RAID
 9005 0284  Tomcat
0285  AAC-RAID
 0e11 0295  SATA 6Ch (Bearcat)
 1014 02f2  ServeRAID 8i
 1028 0287  PowerEdge Expandable RAID Controller 320/DC
 1028 0291  CERC SATA RAID 2 PCI SATA 6ch (DellCorsair)
 103c 3227  AAR-2610SA
 108e 0286  Sun StorageTek SAS RAID HBA, Internal
 108e 0287  STK RAID EXT
 108e 7aac  STK RAID REM
 108e 7aae  STK RAID EX
 15d9 02b5  SMC AOC-USAS-S4i
 15d9 02b6  SMC AOC-USAS-S8i
 15d9 02c9  SMC AOC-USAS-S4iR
 15d9 02ca  SMC AOC-USAS-S8iR
 15d9 02d2  SMC AOC-USAS-S8i-LP
 15d9 02d3  SMC AOC-USAS-S8iR-LP
 17aa 0286  Legend S220 (Legend Crusader)
 17aa 0287  Legend S230 (Legend Vulcan)
 9005
0285  2200S (Vulcan)
 9005 0286  2120S (Crusader)
 9005 0287  2200S (Vulcan-2m)
 9005 0288  3230S (Harrier)
 9005 0289  3240S (Tornado)
# Some early versions reported 2020S
 9005 028a  ASR-2020ZCR
# Some early versions reported 2025S
 9005 028b  ASR-2025ZCR (Terminator)
 9005 028e  ASR-2020SA (Skyhawk)
 9005 028f  ASR-2025SA
 9005 0290  AAR-2410SA PCI SATA 4ch (Jaguar II)
 9005 0292  AAR-2810SA PCI SATA 8ch (Corsair-8)
 9005 0293  AAR-21610SA PCI SATA 16ch (Corsair-16)
 9005 0294  ESD SO-DIMM PCI-X SATA ZCR (Prowler)
 9005 0296  ASR-2240S
 9005 0297  ASR-4005SAS
 9005 0298  ASR-4000
 9005 0299  ASR-4800SAS
 9005 029a  4805SAS
 9005 02a4  ICP ICP9085LI
 9005 02a5  ICP ICP5085BR
 9005 02b5  ASR5800
 9005 02b6  ASR5805
 9005 02b7  ASR5808
 9005 02b8  ICP5445SL
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9005 02b9 ICP5085SL
9005 02ba ICP5805SL
9005 02bb 3405
9005 02bc 3805
9005 02bd 31205
9005 02be 31605
9005 02bf ICP ICP5045BL
9005 02c0 ICP ICP5085BL
9005 02c1 ICP ICP5125BR
9005
02c2 ICP ICP5165BR
9005 02c3 51205
9005 02c4 51605
9005 02c5 ICP ICP5125SL
9005 02c6 ICP ICP5165SL
9005 02c7 3085
9005 02c8 ICP5805BL
9005 02ce 51245
9005 02cf 51645
9005 02d0 52445
9005 02d1 5405
9005 02d4 ASR-2045
9005 02d5 ASR-2405
9005 02d6 ASR-2445
9005 02d7 ASR-2805
9005 02d8 5405G
9005 02d9 5445G
9005 02da 5805G
9005 02db 5085G
9005 02dc 51245G
9005 02dd 51645G
9005 02de 52445G
9005 02df ASR-2045G
9005 02e0 ASR-2405G
9005 02e1 ASR-2445G
9005 02e2 ASR-2805G
0286 AAC-RAID (Rocket)
1014 034d 8s
1014 9540 ServeRAID 8k/8k-l4
1014 9580 ServeRAID 8k/8k-l8
9005 028c ASR-2230S + ASR-2230SLP PCI-X (Lancer)
9005 028d ASR-2130S
9005 029b ASR-2820SA
9005 029c ASR-2620SA
9005 029d ASR-2420SA
9005 029e ICP ICP9024R0
9005 029f ICP ICP9014R0
9005 02a0 ICP ICP9047MA

9005 02a1 ICP ICP9087MA
9005 02a2 3800
9005 02a3 ICP ICP5445AU
9005 02a4 ICP ICP9085LI
9005 02a5 ICP ICP5085BR
9005
02a6 ICP9067MA
9005 02a7 3805
9005 02a8 3400
9005 02a9 ICP ICP5085AU
9005 02aa ICP ICP5045AU
9005 02ac 1800
9005 02b3 2400
9005 02b4 ICP ICP5045AL
9005 0800 Callisto
028b Series 6 - 6G SAS/PCIe 2
9005 0200 Series 6 Entry Level - ASR-6405E - 4 internal 6G SAS ports
9005 0201 Series 6 Entry Level - ASR-6805E - 8 internal 6G SAS ports
9005 0300 Series 6 - ASR-6405 - 4 internal 6G SAS ports
9005 0301 Series 6 - ASR-6805 - 8 internal 6G SAS ports
9005 0302 Series 6 - ASR-6445 - 4 internal and 4 external 6G SAS ports
9005 0310 Series 6 Connectors on Top - ASR-6405T - 4 internal 6G SAS ports
9005 0311 Series 6 Connectors on Top - ASR-6805T - 8 internal 6G SAS
9005 0400 Series 6 - ASR-61205 - 12 internal 6G SAS ports
9005 0401 Series 6 - ASR-61605 - 16 internal 6G SAS ports
9005 0403 Series 6 - ASR-62405 - 24 internal 6G SAS ports
028c Series 7 6G SAS/PCIe 3
9005 0500 Series 7 - ASR-7805 - 8 internal 6G SAS Port/PCIe 3.0
9005
0501 Series 7 - ASR-71605 - 16 internal 6G SAS Port/PCIe 3.0
9005 0502 Series 7 - ASR-71685 - 16 internal 8 external 6G SAS Port/PCIe 3.0
9005 0503 Series 7 - ASR-72405 - 24 internal 0 external 6G SAS Port/PCIe 3.0
9005 0504 Series 7 - ASR-7885 - 8 internal 8 external 6G SAS Port/PCIe 3.0
9005 0505 Series 7 Entry Level - ASR-71685E - 16 internal 8 external 6G SAS Port/PCIe 3.0
9005 0506 Series 7 Entry Level - ASR-72405E - 24 internal 0 external 6G SAS Port/PCIe 3.0
028d Series 8 12G SAS/PCIe 3
9005 0550 Series 8 - ASR-82405 - 24 internal 0 external 12G SAS Port/PCIe 3.0
9005 0551 Series 8 - ASR-81605 - 16 internal 0 external 12G SAS Port/PCIe 3.0
9005 0552 Series 8 - ASR-8805 - 8 internal 0 external 12G SAS Port/PCIe 3.0
9005 0553 Series 8 - ASR-8085 - 0 internal 8 external 12G SAS Port/PCIe 3.0
9005 0554 Series 8 - ASR-8885 - 8 internal 8 external 12G SAS Port/PCIe 3.0
028f Smart Storage PQI 12G SAS/PCIe 3
103c 0600 Smart Array P408i-p SR
Gen10
103c 0601 Smart Array P408e-p SR Gen10
103c 0602 Smart Array P408i-a SR Gen10
103c 0603 Smart Array P408i-c SR Gen10
103c 0650 Smart Array E208i-p SR Gen10

103c 0651 Smart Array E208e-p SR Gen10
103c 0652 Smart Array E208i-c SR Gen10
103c 0654 Smart Array E208i-a SR Gen10
103c 0655 Smart Array P408e-m SR Gen10
103c 0700 Smart Array P204i-c SR Gen10
103c 0701 Smart Array P204i-b SR Gen10
103c 1100 Smart Array P816i-a SR Gen10
103c 1101 Smart Array P416ie-m SR G10
105b 1211 HBA 8238-16i
105b 1321 HBA 8242-24i
13fe 8312 SKY-9200 MIC-8312BridgeB
152d 8a22 QS-8204-8i
152d 8a23 QS-8238-16i
152d 8a24 QS-8236-16i
152d 8a36 QS-8240-24i
152d 8a37 QS-8242-24i
193d 8460 HBA H460-M1
193d 8461 HBA H460-B1
193d c460 RAID P460-M2
193d c461 RAID P460-B2
193d f460 RAID P460-M4
193d f461 RAID P460-B4
19e5 d227 SmartROC-HD SR465C-M 4G
19e5 d228 SmartROC SR455C-M 2G
19e5 d229 SmartIOC SR155-M
19e5 d22a SmartIOC-HD
SR765-M
19e5 d22b SmartROC-e SR455C-ME 4G
19e5 d22c SmartROC SR455C-M 4G
1bd4 0045 SMART-HBA 8242-24i
1bd4 0046 RAID 8236-16i
1bd4 0047 RAID 8240-24i
1bd4 0048 SMART-HBA 8238-16i
1bd4 004a PM8222-SHBA
1bd4 004b RAID PM8204-2GB
1bd4 004c RAID PM8204-4GB
1bd4 004f PM8222-HBA
9005 0608 SmartRAID 3162-8i /e
9005 0800 SmartRAID 3154-8i
9005 0801 SmartRAID 3152-8i
9005 0802 SmartRAID 3151-4i
9005 0803 SmartRAID 3101-4i
9005 0804 SmartRAID 3154-8e
9005 0805 SmartRAID 3102-8i
9005 0806 SmartRAID 3100
9005 0807 SmartRAID 3162-8i
9005 0900 SmartHBA 2100-8i
9005 0901 SmartHBA 2100-4i

9005 0902 HBA 1100-8i
9005 0903 HBA 1100-4i
9005 0904 SmartHBA 2100-8e
9005 0905 HBA 1100-8e
9005 0906 SmartHBA 2100-4i4e
9005 0907 HBA 1100
9005 0908 SmartHBA 2100
9005 090a SmartHBA 2100A-8i
9005 1200 SmartRAID 3154-24i
9005 1201 SmartRAID 3154-8i16e
9005 1202 SmartRAID 3154-8i8e
9005 1280 HBA 1100-16i
9005 1281
HBA 1100-16e
9005 1300 HBA 1100-8i8e
9005 1301 HBA 1100-24i
9005 1302 SmartHBA 2100-8i8e
9005 1303 SmartHBA 2100-24i
9005 1380 SmartRAID 3154-16i
0410 AIC-9410W SAS (Razor HBA RAID)
9005 0410 ASC-48300(Spirit RAID)
9005 0411 ASC-58300 (Oakmont RAID)
0412 AIC-9410W SAS (Razor HBA non-RAID)
9005 0412 ASC-48300 (Spirit non-RAID)
9005 0413 ASC-58300 (Oakmont non-RAID)
0415 ASC-58300 SAS (Razor-External HBA RAID)
0416 ASC-58300 SAS (Razor-External HBA non-RAID)
041e AIC-9410W SAS (Razor ASIC non-RAID)
041f AIC-9410W SAS (Razor ASIC RAID)
9005 041f AIC-9410W SAS (Razor ASIC RAID)
042f VSC7250/7251 SAS (Aurora ASIC non-RAID)
0430 AIC-9405W SAS (Razor-Lite HBA RAID)
9005 0430 ASC-44300 (Spirit-Lite RAID)
0432 AIC-9405W SAS (Razor-Lite HBA non-RAID)
9005 0432 ASC-44300 (Spirit-Lite non-RAID)
043e AIC-9405W SAS (Razor-Lite ASIC non-RAID)
043f AIC-9405W SAS (Razor-Lite ASIC RAID)
0450 ASC-1405 Unified Serial HBA
0500 Obsidian chipset
SCSI controller
1014 02c1 PCI-X DDR 3Gb SAS Adapter (572A/572C)
1014 02c2 PCI-X DDR 3Gb SAS RAID Adapter (572B/572D)
0503 Scamp chipset SCSI controller
1014 02bf Quad Channel PCI-X DDR U320 SCSI RAID Adapter (571E)
1014 02c3 PCI-X DDR 3Gb SAS RAID Adapter (572F)
1014 02d5 Quad Channel PCI-X DDR U320 SCSI RAID Adapter (571F)
0910 AUA-3100B
091e AUA-3100B

8000 ASC-29320A U320
800f AIC-7901 U320
8010 ASC-39320 U320
8011 ASC-39320D
0e11 00ac ASC-39320D U320
9005 0041 ASC-39320D U320
8012 ASC-29320 U320
8013 ASC-29320B U320
8014 ASC-29320LP U320
8015 ASC-39320B U320
8016 ASC-39320A U320
8017 ASC-29320ALP U320
9005 0044 ASC-29320ALP PCIx U320
9005 0045 ASC-29320LPE PCIe U320
801c ASC-39320D U320
801d AIC-7902B U320
1014 02cc ServeRAID 7e
801e AIC-7901A U320
801f AIC-7902 U320
1734 1011 PRIMERGY RX300 onboard SCSI
8080 ASC-29320A U320 w/HostRAID
8081 PMC-Sierra PM8001 SAS HBA [Series 6H]
8088 PMC-Sierra PM8018 SAS HBA [Series
7H]
8089 PMC-Sierra PM8019 SAS encryption HBA [Series 7He]
808f AIC-7901 U320 w/HostRAID
1028 0168 Precision Workstation 670 Mainboard
8090 ASC-39320 U320 w/HostRAID
8091 ASC-39320D U320 w/HostRAID
8092 ASC-29320 U320 w/HostRAID
8093 ASC-29320B U320 w/HostRAID
8094 ASC-29320LP U320 w/HostRAID
8095 ASC-39320(B) U320 w/HostRAID
8096 ASC-39320A U320 w/HostRAID
8097 ASC-29320ALP U320 w/HostRAID
809c ASC-39320D(B) U320 w/HostRAID
809d AIC-7902(B) U320 w/HostRAID
1014 02cc ServeRAID 7e
809e AIC-7901A U320 w/HostRAID
809f AIC-7902 U320 w/HostRAID
907f Atronics
2015 IDE-2015PL
919a Gigapixel Corp
9412 Holtek
6565 6565
9413 Softlogic Co., Ltd.
6010 SOLO6010 MPEG-4 Video encoder/decoder
6110 SOLO6110 H.264 Video encoder/decoder

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9618  JusonTech Corporation
 0001  JusonTech Gigabit Ethernet Controller
9699  Omni Media Technology Inc
 6565  6565
# nee Netmos Technology
9710  MosChip Semiconductor Technology Ltd.
 9250  PCI-to-PCI bridge [MCS9250]
 9805
  PCI 1 port parallel adapter
 9815  PCI 9815 Multi-I/O Controller
  1000 0020  2P0S (2 port parallel adaptor)
 9820  PCI 9820 Multi-I/O Controller
 9835  PCI 9835 Multi-I/O Controller
  1000 0002  2S (16C550 UART)
  1000 0012  1P2S
 9845  PCI 9845 Multi-I/O Controller
# Serial ports at BAR0-3
  1000 0004  0P4S (4 port 16550A serial card)
  1000 0006  0P6S (6 port 16550a serial card)
# Serial ports at BAR0-3, Parallel port at BAR4
  1000 0014  1P4S (1 Parallel / 4 16550A Serial Port Adapter)
 9855  PCI 9855 Multi-I/O Controller
# Parallel port at BAR0. Serial ports at BAR2-5
  1000 0014  1P4S
# Parallel ports at BAR0,BAR2. Serial ports at BAR4-5
  1000 0022  2P2S (2 Parallel / 2 16550A Serial Port Adapter)
 9865  PCI 9865 Multi-I/O Controller
 9900  MCS9900 Multi-I/O Controller
 9901  PCIe 9901 Multi-I/O Controller
 9904  4-Port PCIe Serial Adapter
# 2-port Serial 1-port Parallel Adaptor
 9912  PCIe 9912 Multi-I/O Controller
 9922  MCS9922 PCIe Multi-I/O Controller
 9990  MCS9990
 PCIe to 4Port USB 2.0 Host Controller
# Subsystem ID on a 3c985B-SX network card
9850  3Com (wrong ID)
9902  Stargen Inc.
 0001  SG2010 PCI over Starfabric Bridge
 0002  SG2010 PCI to Starfabric Gateway
 0003  SG1010 Starfabric Switch and PCI Bridge
a0a0  AOPEN Inc.
a0f1  UNISYS Corporation
a200  NEC Corporation
a259  Hewlett Packard
a25b  Hewlett Packard GmbH PL24-MKT
a304  Sony
a727  3Com Corporation
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 0013  3CRPAG175 Wireless PC Card
 6803  3CRDAG675B Wireless 11a/b/g Adapter
aa00  iTuner
aa01  iTuner
aa02  iTuner
aa03  iTuner
aa04  iTuner
aa05  iTuner
aa06  iTuner
aa07  iTuner
aa08  iTuner
aa09  iTuner
aa0a  iTuner
aa0b  iTuner
aa0c  iTuner
aa0d  iTuner
aa0e  iTuner
aa0f  iTuner
aa42  Scitex Digital Video
aa55  Ncomputing X300 PCI-Engine
aaaa  Adnaco Technology Inc.
 0001  H1 PCIe over fiber optic host controller
 0002  R1BP1 PCIe over fiber optic expansion chassis
abcd  Vadatech Inc.
ac1e  Digital Receiver Technology Inc
ac3d  Actuality Systems
ad00  Alta Data Technologies LLC
aecb
  Adrienne Electronics Corporation
 6250  VITC/LTC Timecode Reader card [PCI-VLTC/RDR]
affe  Sirrix AG security technologies
 01e1  PCI1E1 1-port ISDN E1 interface
 02e1  PCI2E1 2-port ISDN E1 interface
 450e  PCI4S0EC 4-port ISDN S0 interface
 dead  Sirrix.PCI4S0 4-port ISDN S0 interface
b100  OpenVox Communication Co. Ltd.
# Not registered officially
b10b  Uakron PCI Project
b1b3  Shiva Europe Limited
b1d9  ATCOM Technology co., LTD.
# Pinnacle should be 11bd, but they got it wrong several times --mj
bd11  Pinnacle Systems, Inc. (Wrong ID)
bdbd  Blackmagic Design
 a106  Multibridge Extreme
 a117  Intensity Pro
 a11a  DeckLink HD Extreme 2
 a11b  DeckLink SDI/Duo/Quad
 a11c  DeckLink HD Extreme 3
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a11d DeckLink Studio
a11e DeckLink Optical Fibre
a120 Decklink Studio 2
a121 DeckLink HD Extreme 3D/3D+
a124 Intensity Extreme
a126 Intensity Shuttle
a127 UltraStudio Express
a129 UltraStudio Mini Recorder
a12a UltraStudio Mini Monitor
a12d UltraStudio 4K
a12e DeckLink
4K Extreme
a12f DeckLink Mini Monitor
a130 DeckLink Mini Recorder
a132 UltraStudio 4K
a136 DeckLink 4K Extreme 12G
a137 DeckLink Studio 4K
a138 Decklink SDI 4K
a139 Intensity Pro 4K
a13b DeckLink Micro Recorder
a13d DeckLink 4K Pro
a13e UltraStudio 4K Extreme
a13f DeckLink Quad 2
a140 DeckLink Duo 2
a141 UltraStudio 4K Extreme 3
a142 UltraStudio HD Mini
a143 DeckLink Mini Recorder 4K
a144 DeckLink Mini Monitor 4K
a148 DeckLink SDI Micro
a14b DeckLink 8K Pro
a14e DeckLink Quad HDMI Recorder
a1ff eGPU RX580
c001 TSI Telsys
c0a9 Micron/Crucial Technology
2263 P1 NVMe PCIe SSD
c0de Motorola
c0fe Motion Engineering, Inc.
ca3b Cambrionix Ltd.
ca50 Varian Australia Pty Ltd
cace CACE Technologies, Inc.
0001 TurboCap Port A
0002 TurboCap Port B
0023 AirPcap N
caed Canny Edge
cafe Chrysalis-ITS
0003 Luna K3 Hardware Security Module
0006 Luna PCI-e 3000 Hardware Security Module
0007 Luna K6 Hardware Security Module

0008 Luna K7 Hardware
Security Module
cc53 ScaleFlux Inc.
cccc Catapult Communications
ccec Curtiss-Wright Controls Embedded Computing
cddd Tyzx, Inc.
0101 DeepSea 1 High Speed Stereo Vision Frame Grabber
0200 DeepSea 2 High Speed Stereo Vision Frame Grabber
ceba KEBA AG
d161 Digium, Inc.
0120 Wildcard TE120P single-span T1/E1/J1 card
0205 Wildcard TE205P/TE207P dual-span T1/E1/J1 card 5.0V
0210 Wildcard TE210P/TE212P dual-span T1/E1/J1 card 3.3V
0220 Wildcard TE220 dual-span T1/E1/J1 card 3.3V (PCI-Express)
0405 Wildcard TE405P/TE407P quad-span T1/E1/J1 card 5.0V
0410 Wildcard TE410P/TE412P quad-span T1/E1/J1 card 3.3V
0420 Wildcard TE420P quad-span T1/E1/J1 card 3.3V (PCI-Express)
0800 Wildcard TDM800P 8-port analog card
1205 Wildcard TE205P/TE207P dual-span T1/E1/J1 card 5.0V (u1)
1220 Wildcard TE220 dual-span T1/E1/J1 card 3.3V (PCI-Express) (5th gen)
1405 Wildcard TE405P/TE407P quad-span T1/E1/J1 card 5.0V (u1)
1410 Wildcard TE410P quad-span T1/E1/J1 card 3.3V (5th
Gen)
1420 Wildcard TE420 quad-span T1/E1/J1 card 3.3V (PCI-Express) (5th gen)
1820 Wildcard TE820 octal-span T1/E1/J1 card 3.3V (PCI-Express)
2400 Wildcard TDM2400P 24-port analog card
3400 Wildcard TC400P transcoder base card
8000 Wildcard TE121 single-span T1/E1/J1 card (PCI-Express)
8001 Wildcard TE122 single-span T1/E1/J1 card
8002 Wildcard AEX800 8-port analog card (PCI-Express)
8003 Wildcard AEX2400 24-port analog card (PCI-Express)
8004 Wildcard TCE400P transcoder base card
8005 Wildcard TDM410 4-port analog card
8006 Wildcard AEX410 4-port analog card (PCI-Express)
8007 Hx8 Series 8-port Base Card
8008 Hx8 Series 8-port Base Card (PCI-Express)
800a Wildcard TE133 single-span T1/E1/J1 card (PCI Express)
800b Wildcard TE134 single-span T1/E1/J1 card
800c Wildcard A8A 8-port analog card
800d Wildcard A8B 8-port analog card (PCI-Express)
800e Wildcard TE235/TE435 quad-span T1/E1/J1 card (PCI-Express)
800f Wildcard A4A 4-port analog card
8010
Wildcard A4B 4-port analog card (PCI-Express)
8013 Wildcard TE236/TE436 quad-span T1/E1/J1 card
b410 Wildcard B410 quad-BRI card
d209 Ultimarc
1500 PAC Drive

```
 15a2  SpinTrak
 1601  AimTrak
d4d4  Dy4 Systems Inc
 0601  PCI Mezzanine Card
d531  I+ME ACTIA GmbH
d84d  Exsys
dada  Datapath Limited
 0133  VisionRGB-X2
 0139  VisionRGB-E1
 0144  VisionSD8
 0150  VisionRGB-E2
 0151  VisionSD4+1
 0159  VisionAV
 0161  DGC161
 0165  DGC165
 0167  DGC167
 0168  DGC168
 1139  VisionRGB-E1S
 1150  VisionRGB-E2S
 1151  VisionSD4+1S
 1153  VisionDVI-DL
 1154  VisionSDI2
db10  Diablo Technologies
dc93  Dawicontrol GmbH
dcba  Dynamic Engineering
 0046  PCIe Altera Cyclone IV
# VPX format Receiver Controller Board
 0047  VPX-RCB
# PMC Format FPGA design with 8 high speed UART channels
 0048  PMC-Biserial-III-BAE9
 004e  PC104p-Biserial-III-NVY5
 004f  PC104p-Biserial-III-NVY6
 0052  PCIeBiSerialDb37 BA22 LVDS IO
# 8 port 16550 compatible UART, PMC format, RS-232 IO, RTS, CTS, DTR, DSR supported
 0066
  PMC-OctalUART-232
dd01  Digital Devices GmbH
 0003  Octopus DVB Adapter
  dd01 0001  Octopus DVB adapter
  dd01 0002  Octopus LE DVB adapter
  dd01 0003  Octopus OEM
  dd01 0004  Octopus V3 DVB adapter
  dd01 0010  Octopus Mini
  dd01 0020  Cine S2 V6 DVB adapter
  dd01 0021  Cine S2 V6.5 DVB adapter
  dd01 0030  Cine CT V6.1 DVB adapter
  dd01 db03  Mystique SaTiX-S2 V3 DVB adapter
 0006  Cine V7
```

```
	0007  Max
		dd01 0023  Max S8 4/8
	0011  Octopus CI DVB Adapter
		dd01 0040  Octopus CI
		dd01 0041  Octopus CI Single
	0201  Resi DVB-C Modulator
		dd01 0001  Resi DVB-C Modulator
dead  Indigita Corporation
deaf  Middle Digital Inc.
	9050  PC Weasel Virtual VGA
	9051  PC Weasel Serial Port
	9052  PC Weasel Watchdog Timer
# formerly SoftHard Technology Ltd.
deda  XIMEA
	4001  CB or MX camera
	4021  MT camera
e000  Winbond
	e000  W89C940
e159  Tiger Jet Network Inc.
	0001  Tiger3XX Modem/ISDN interface
		0059 0001  128k ISDN-S/T Adapter
		0059 0003  128k ISDN-U Adapter
		00a7 0001  TELES.S0/PCI
	2.x ISDN Adapter
		8086 0003  Digium X100P/X101P analogue PSTN FXO interface
		b100 0003  OpenVox A400P 4-port analog card
		b1d9 0003  AX400P 4-port analog card
	0002  Tiger100APC ISDN chipset
e1c5  Elcus
e4bf  EKF Elektronik GmbH
	0ccd  CCD-CALYPSO
	0cd1  CD1-OPERA
	0cd2  CD2-BEBOP
	0cd3  CD3-JIVE
	50c1  PC1-GROOVE
	50c2  PC2-LIMBO
	53c1  SC1-ALLEGRO
	cc47  CCG-RUMBA
	cc4d  CCM-BOOGIE
e4e4  Xorcom
e55e  Essence Technology, Inc.
ea01  Eagle Technology
	000a  PCI-773 Temperature Card
	0032  PCI-730 & PC104P-30 Card
	003e  PCI-762 Opto-Isolator Card
	0041  PCI-763 Reed Relay Card
	0043  PCI-769 Opto-Isolator Reed Relay Combo Card
	0046  PCI-766 Analog Output Card
```

0052 PCI-703 Analog I/O Card
0800 PCI-800 Digital I/O Card
The main chip of all these devices is by Xilinx -> It could also be a Xilinx ID.
ea60 RME
9896 Digi32
9897 Digi32 Pro
9898 Digi32/8
eabb Aashima Technology B.V.
eace Endace Measurement Systems, Ltd
3100 DAG 3.10 OC-3/OC-12
3200 DAG 3.2x OC-3/OC-12
320e
DAG 3.2E Fast Ethernet
340e DAG 3.4E Fast Ethernet
341e DAG 3.41E Fast Ethernet
3500 DAG 3.5 OC-3/OC-12
351c DAG 3.5ECM Fast Ethernet
360d DAG 3.6D DS3
360e DAG 3.6E Fast Ethernet
368e DAG 3.6E Gig Ethernet
3707 DAG 3.7T T1/E1/J1
370d DAG 3.7D DS3/E3
378e DAG 3.7G Gig Ethernet
3800 DAG 3.8S OC-3/OC-12
4100 DAG 4.10 OC-48
4110 DAG 4.11 OC-48
4220 DAG 4.2 OC-48
422e DAG 4.2GE Gig Ethernet
4230 DAG 4.2S OC-48
423e DAG 4.2GE Gig Ethernet
4300 DAG 4.3S OC-48
430e DAG 4.3GE Gig Ethernet
452e DAG 4.5G2 Gig Ethernet
454e DAG 4.5G4 Gig Ethernet
45b8 DAG 4.5Z8 Gig Ethernet
45be DAG 4.5Z2 Gig Ethernet
520e DAG 5.2X 10G Ethernet
521a DAG 5.2SXA 10G Ethernet/OC-192
5400 DAG 5.4S-12 OC-3/OC-12
5401 DAG 5.4SG-48 Gig Ethernet/OC-3/OC-12/OC-48
540a DAG 5.4GA Gig Ethernet
541a DAG 5.4SA-12 OC-3/OC-12
542a DAG 5.4SGA-48 Gig Ethernet/OC-3/OC-12/OC-48
6000 DAG 6.0SE 10G Ethernet/OC-192
6100 DAG 6.1SE 10G Ethernet/OC-192
6200
DAG 6.2SE 10G Ethernet/OC-192
7100 DAG 7.1S OC-3/OC-12

```
 7400  DAG 7.4S OC-3/OC-12
 7401  DAG 7.4S48 OC-48
 752e  DAG 7.5G2 Gig Ethernet
 754e  DAG 7.5G4 Gig Ethernet
 8100  DAG 8.1X 10G Ethernet
 8101  DAG 8.1SX 10G Ethernet/OC-192
 8102  DAG 8.1X 10G Ethernet
 820e  DAG 8.2X 10G Ethernet
 820f  DAG 8.2X 10G Ethernet (2nd bus)
 8400  DAG 8.4I Infiniband x4 SDR
 8500  DAG 8.5I Infiniband x4 DDR
 9200  DAG 9.2SX2 10G Ethernet
 920e  DAG 9.2X2 10G Ethernet
 9540  DAG 9.5G4 Gig Ethernet
 954f  DAG 9.5G4F Gig Ethernet
 a120  DAG 10X2-P 10G Ethernet
 a12e  DAG 10X2-S 10G Ethernet
 a140  DAG 10X4-P 10/40G Ethernet
 a14e  DAG 10X4-S 10/40G Ethernet
 eace  vDAG virtual device
ec80  Belkin Corporation
 ec00  F5D6000
ecc0  Echo Digital Audio Corporation
edd8  ARK Logic Inc
 a091  1000PV [Stingray]
 a099  2000PV [Stingray]
 a0a1  2000MT
 a0a9  2000MI
# Found on M2N68-AM Motherboard
f043  ASUSTeK Computer Inc. (Wrong ID)
f05b  Foxconn International, Inc. (Wrong ID)
f15e  SiFive, Inc.
f1d0  AJA Video
 c0fe
  Xena HS/HD-R
 c0ff  Kona/Xena 2
 cafe  Kona SD
 cfee  Xena LS/SD-22-DA/SD-DA
 dafe  Corvid 1
 daff  KONA LHi
 db00  IoExpress
 db01  Corvid22
 db02  Kona 3G
 db03  Corvid 3G
 db04  Kona 3G QUAD
 db05  Kona LHe+
 db06  IoXT
 db07  Kona 3G P2P
```

```
 db08  Kona 3G QUAD P2P
 db09  Corvid 24
 db11  T-Tap
 dcaf  Kona HD
 dfee  Xena HD-DA
 eb07  Io4K
 eb0a  Io4K UFC
 eb0b  Kona 4
 eb0c  Kona 4 UFC
 eb0d  Corvid 88
 eb0e  Corvid 44
 eb16  Corvid HEVC
  10cf 1049  Corvid HEVC M31
 eb18  Corvid HB-R
 eb1a  Kona IP 1SFP
 eb1c  Kona IP 2SFP
 eb1d  Io4KPlus
 eb1e  IoIP
 eb1f  Kona 5
 eb23  Kona 1
 eb24  Kona HDMI
 eb25  Corvid 44 12g
 efac  Xena SD-MM/SD-22-MM
 facd  Xena HD-MM
f5f5  F5 Networks, Inc.
# Subsystem ID for PATA controller on nForce motherboard
f849  ASRock Incorporation (Wrong ID)
fa57  Interagon AS
 0001  PMC [Pattern Matching Chip]
fab7  Fabric7 Systems, Inc.
febd  Ultraview Corp.
# Nee Epigram
feda  Broadcom Inc
 a0fa  BCM4210 iLine10 HomePNA 2.0
 a10e  BCM4230 iLine10 HomePNA
 2.0
fede  Fedetec Inc.
 0003  TABIC PCI v3
fffd  XenSource, Inc.
 0101  PCI Event Channel Controller
# Used in some old VMWare products before they got a real ID assigned
fffe  VMWare Inc (temporary ID)
 0710  Virtual SVGA
ffff  Illegal Vendor ID


# List of known device classes, subclasses and programming interfaces
```

```
# Syntax:
# C class class_name
# subclass subclass_name    <-- single tab
#  prog-if  prog-if_name   <-- two tabs

C 00  Unclassified device
 00  Non-VGA unclassified device
 01  VGA compatible unclassified device
C 01  Mass storage controller
 00  SCSI storage controller
 01  IDE interface
  00  ISA Compatibility mode-only controller
  05  PCI native mode-only controller
  0a  ISA Compatibility mode controller, supports both channels switched to PCI native mode
  0f  PCI native mode controller, supports both channels switched to ISA compatibility mode
  80  ISA Compatibility mode-only controller, supports bus mastering
  85  PCI native mode-only controller, supports bus
 mastering
  8a  ISA Compatibility mode controller, supports both channels switched to PCI native mode, supports bus mastering
  8f  PCI native mode controller, supports both channels switched to ISA compatibility mode, supports bus mastering
 02  Floppy disk controller
 03  IPI bus controller
 04  RAID bus controller
 05  ATA controller
  20  ADMA single stepping
  30  ADMA continuous operation
 06  SATA controller
  00  Vendor specific
  01  AHCI 1.0
  02  Serial Storage Bus
 07  Serial Attached SCSI controller
  01  Serial Storage Bus
 08  Non-Volatile memory controller
  01  NVMHCI
  02  NVM Express
 80  Mass storage controller
C 02  Network controller
 00  Ethernet controller
 01  Token ring network controller
 02  FDDI network controller
 03  ATM network controller
 04  ISDN controller
 05  WorldFip controller
 06  PICMG controller
 07  Infiniband controller
 08  Fabric controller
 80  Network controller
C 03  Display controller
```

```
00  VGA compatible controller
 00  VGA controller
 01
 8514 controller
01  XGA compatible controller
02  3D controller
80  Display controller
C 04  Multimedia controller
00  Multimedia video controller
01  Multimedia audio controller
02  Computer telephony device
03  Audio device
80  Multimedia controller
C 05  Memory controller
00  RAM memory
01  FLASH memory
80  Memory controller
C 06  Bridge
00  Host bridge
01  ISA bridge
02  EISA bridge
03  MicroChannel bridge
04  PCI bridge
 00  Normal decode
 01  Subtractive decode
05  PCMCIA bridge
06  NuBus bridge
07  CardBus bridge
08  RACEway bridge
 00  Transparent mode
 01  Endpoint mode
09  Semi-transparent PCI-to-PCI bridge
 40  Primary bus towards host CPU
 80  Secondary bus towards host CPU
0a  InfiniBand to PCI host bridge
80  Bridge
C 07  Communication controller
00  Serial controller
 00  8250
 01  16450
 02  16550
 03  16650
 04  16750
 05  16850
 06  16950
01  Parallel controller
 00  SPP
 01  BiDir
```

```
  02  ECP
  03  IEEE1284
  fe  IEEE1284
 Target
 02  Multiport serial controller
 03  Modem
  00  Generic
  01  Hayes/16450
  02  Hayes/16550
  03  Hayes/16650
  04  Hayes/16750
 04  GPIB controller
 05  Smard Card controller
 80  Communication controller
C 08  Generic system peripheral
 00  PIC
  00  8259
  01  ISA PIC
  02  EISA PIC
  10  IO-APIC
  20  IO(X)-APIC
 01  DMA controller
  00  8237
  01  ISA DMA
  02  EISA DMA
 02  Timer
  00  8254
  01  ISA Timer
  02  EISA Timers
  03  HPET
 03  RTC
  00  Generic
  01  ISA RTC
 04  PCI Hot-plug controller
 05  SD Host controller
 06  IOMMU
 80  System peripheral
C 09  Input device controller
 00  Keyboard controller
 01  Digitizer Pen
 02  Mouse controller
 03  Scanner controller
 04  Gameport controller
  00  Generic
  10  Extended
 80  Input device controller
C 0a  Docking station
 00  Generic Docking Station
```

80 Docking Station
C 0b Processor
00 386
01 486
02 Pentium
10 Alpha
20 Power PC
30 MIPS
40 Co-processor
C 0c Serial bus controller
00 FireWire (IEEE
1394)
00 Generic
10 OHCI
01 ACCESS Bus
02 SSA
03 USB controller
00 UHCI
10 OHCI
20 EHCI
30 XHCI
80 Unspecified
fe USB Device
04 Fibre Channel
05 SMBus
06 InfiniBand
07 IPMI Interface
00 SMIC
01 KCS
02 BT (Block Transfer)
08 SERCOS interface
09 CANBUS
C 0d Wireless controller
00 IRDA controller
01 Consumer IR controller
10 RF controller
11 Bluetooth
12 Broadband
20 802.1a controller
21 802.1b controller
80 Wireless controller
C 0e Intelligent controller
00 I2O
C 0f Satellite communications controller
01 Satellite TV controller
02 Satellite audio communication controller
03 Satellite voice communication controller
04 Satellite data communication controller

C 10 Encryption controller
 00 Network and computing encryption device
 10 Entertainment encryption device
 80 Encryption controller
C 11 Signal processing controller
 00 DPIO module
 01 Performance counters
 10 Communication synchronizer
 20 Signal
 processing management
 80 Signal processing controller
C 12 Processing accelerators
 00 Processing accelerators
For the class of PCI attached devices which perform a function of Deep Learning Neural Network inference acceleration
 01 AI Inference Accelerator
C 13 Non-Essential Instrumentation
C 40 Coprocessor
C ff Unassigned class

Found in path(s):
* /opt/cola/permits/1416430019_1665448593.5758924/0/pci-ids-0-0-2020-03-20-orig-tar-xz/pci.ids-0.0~2020.03.20/pci.ids

1.947 oniguruma 6.9.7.1-2build1

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1.952 dmsetup 1.02.175-2.1ubuntu4

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<signature of Ty Coon>, 1 April 1990
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b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

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1.953 pygobject 3.42.1

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based

on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or

linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable

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Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the
user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
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d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
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e) Verify that the user has already received a copy of these
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For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
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1.954 python-gi 3.42.1-0ubuntu1

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1.956 azure-storage-blob-go 0.15.0

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1.957 pyjwt 2.3.0-1ubuntu0.2

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1.958 pcre 10.39-3ubuntu0.1

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1.959 hibernate-validator 6.2.5.Final

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1.960 jetty-servlets 9.4.48.v20220622

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with

classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by
Unix systems for simple password protection. Copyright 1996 Aki Yoshida,
modified April 2001 by Iris Van den Broeke, Daniel Deville.
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1.961 libproc-processtable-perl 0.634-1build1

1.961.1 Available under license :

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/* obstack.h - object stack macros
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  <http://www.gnu.org/licenses/>. */

Found in path(s):
* /opt/cola/permits/1424481720_1663911171.3100908/0/libproc-processtable-perl-0-634-orig-tar-gz/Proc-ProcessTable-0.634/os/obstack.h
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/*alan.martin@oracle.com
* Copyright (c) 1998 by Mike Romberg (romberg@fsl.noaa.gov)

```
* This file may be distributed under the same terms as Perl.
*
* This will probably only work under HPUX-10 or later.
*
* 8/26/99 Added "fname" field for consistency with other OS's - D. Urist
*
*/
```

Found in path(s):
* /opt/cola/permits/1424481720_1663911171.3100908/0/libproc-processtable-perl-0-634-orig-tar-gz/Proc-ProcessTable-0.634/os/HPUX.c
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port of Proc::ProcessTable under AIX

New files
=========

os/aix.c
os/aix.h
hints/aix.pl
README.aix

Sample (low effort) application (please don't laugh ;)
==========
minitop.pl
xminitop

Blah
====

o Documentation under AIX is rather cryptic and incomplete. I managed to read
 the process table using undocumented calls : getproc, getuser, getargs.

 I've read C code from Vic Abell <abe@purdue.edu> in lsof-4.36, Jussi Maki
 <Jussi.Maki@csc.fi> and Marcel J.E. Mol <marcel@mesa.nl> in monitor-2.1.2

 as well as a usenet news posted by Michael Wojcik <mike@raederle.mfltd.co.uk>
 (Article: 63164 of comp.unix.aix, Date: 04/04/95)

[lsof is a really nice tool and provides C examples to read low-level
structures under nearly any UNIX system on earth.]

o my port was only tested under the following conditions :

AIX 4.1.5

perl 5.005_02

o I am not a C programming terminator, so consider this
as really ALPHA
software.

o I wanted this tool to be usable by a non root user. This is why I don't read
/dev/kmem unlike Vic and Jussi.

Bugs
====

o When mapping tty device numbers to names, I get a 'permission denied' message
due to the /dev/.SRC-unix directory whose perms are as follows :

```
drwxrwx---   2 root     system       512 Aug 12 11:26 .SRC-unix/
```

This dir contains only a few unix domain socket files used by IBM's System
Resource Controller, so it is of no interest for getting ttynames.

Maybe we should bind STDERR to /dev/null

o I sometimes get :
"Can't access `pctmem' field in class Proc::ProcessTable::Process"

It comes from the AUTOLOAD function defined in Process.pm. How come we are
able to access fields like "pctcpu" but not "pctmem" ? I am puzzled.

We may chenge the 'croak' statement to a 'warn' but it'd be better if we
knew where this error comes from.

o Hidden ones ? I bet there is some ...

Thanks
======
Daniel J. Urist <durist@world.std.com>
Vic
Abell <abe@purdue.edu>
Jussi Maki <Jussi.Maki@csc.fi>
Cedric Le Goater <LE-GOATER_Cedric@stna.dgac.fr>
Gregory Kurz <KURZ_Gregory@stna.dgac.fr>

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--
David Paquet
david-paquet@usa.net

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* /opt/cola/permits/1424481720_1663911171.3100908/0/libproc-processtable-perl-0-634-orig-tar-gz/Proc-ProcessTable-0.634/README.aix
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=head1 NAME

killall - Kill all instances of a process by pattern matching the command-line

=head1 SYNOPSIS

 use Proc::Killall;

 killall('HUP', 'xterm'); # SIGHUP all xterms
 killall('KILL', '^netscape$'); # SIGKILL to "netscape"

=head1 DESCRIPTION

This module provides one function, C<killall()>, which takes two parameters:
a signal name or number (see C<kill()>) and a process pattern. This pattern
is matched against the process' command-line as the C<ps> command would
show it (C<ps> is not used internally, instead a package called
C<Proc::ProcessTable> is used).

C<killall> searches the process table and sends that signal to all processes
which match the pattern. The return value is the number of processes that
were successfully signaled. If any kills failed, the C<$!> variable
will be set based on that last one that failed (even if a successful kill
happened afterward).

=head1 AUTHOR

Written in 2000 by Aaron
 Sherman E<lt>ajs@ajs.comE<gt>

C<Proc::Killall> is copyright 2000 by Aaron Sherman, and may be
distributed under the same terms as Perl itself.

=head1 PREREQUISITES

C<Proc::ProcessTable> is required for C<Proc::Killall> to function.

=head1 SEE ALSO

L<perl>, L<perlfunc>, L<perlvar>, L<Proc::ProcessTable>

Found in path(s):
* /opt/cola/permits/1424481720_1663911171.3100908/0/libproc-processtable-perl-0-634-orig-tar-gz/Proc-ProcessTable-0.634/lib/Proc/Killall.pm
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/*
* Copyright (c) 2002, Target Corporation. All Rights Reserved.
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* it under the same terms as Perl itself.
*
* Author: James FitzGibbon <james.fitzgibbon@target.com>
*
* based on aix.c distributed with Proc::ProcessTable v0.35, which
* is Copyright (c) 1998, David Paquet.
*
*/

Found in path(s):
* /opt/cola/permits/1424481720_1663911171.3100908/0/libproc-processtable-perl-0-634-orig-tar-gz/Proc-ProcessTable-0.634/os/aix_getprocs.c
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/*

 Adapted from ps.cc by J Robert Ray <jrray@jrray.org>

  ps.cc

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Proc::ProcessTable

[![CircleCI](https://circleci.com/gh/jwbargsten/perl-proc-processtable/tree/master.svg?style=svg)](https://circleci.com/gh/jwbargsten/perl-proc-processtable/tree/master)

Please use github or [rt.cpan.org](https://rt.cpan.org/Public/Dist/Display.html?Name=Proc-ProcessTable) to submit bugs and patches.

MAINTENANCE STATUS

This module is maintained by Joachim Bargsten. I have nearly zero knowledge of
the implementation within but wanted to rescue the distribution from
abandonment and try to get critical bug fixes out. This will need to be
a community effort.

The source is in github -

   https://github.com/jwbargsten/perl-proc-processtable

Commit bits will be generously granted, send me your github id.

STATUS

This is BETA software; it seems to work, but use at your own risk :)

Currently works on darwin, nonstop-ux, Windows (both native MSWin32 and Cygwin), linux,
solaris, aix, hpux, freebsd,
 irix, dec_osf, bsdi, netbsd, unixware 7.x,
SunOS and openbsd. Please see the "README.osname" files for details on
individual os implementations. Please see the file PORTING if you are
interested in making it work on something else. Please see the file
TODO for a list of issues that need to be addressed (and send me
patches!).

Please note that the Windows port is derived from Cygwin code and is therefore covered
by the Cygwin license (http://cygwin.com/licensing.html).

Multithread support is now available for Solaris; please see
README.solaris for info. It may work under other OS's as well; please
let me know if it does.

Comments, bug reports, patches and especially ports are greatly
appreciated. If you want to submit a patch, *please* use standard
context-diff format; if you're submitting a port, a tarball of the new
files is great.

DESCRIPTION

This module is a first crack at providing a consistent interface to
Unix (and maybe other multitasking OS's) process table information.
The
impetus for this came about with my frustration at having to parse
the output of various systems' ps commands to check whether specific
processes were running on different boxes at a larged mixed Unix site.
The output format of ps was different on each OS, and sometimes
changed with each new release of an OS. Also, running a ps subprocess
from within a perl or shell script and parsing the output was not a
very efficient or aesthetic way to do things.

With this module, you can do things like this:

```
# kill memory pigs
use Proc::ProcessTable;

my $t = Proc::ProcessTable->new;
foreach my $p ( @{$t->table} ) {
    if( $p->pctmem > 95 ){
      $p->kill(9);
    }
}
```

There is another short example in the file "example.pl" in the
distribution. For a more elaborate example (in German), see
<http://www.linux-magazin.de/ausgabe.1999.02/Proc/proc.html>.
<shameless plug> If you can't read German, try my other module,
WWW::Babelfish!</shameless plug>

There
are also two contributed modules: a module called Proc::Killall
contributed by Aaron Sherman to kill all processes whose command-lines
match a given pattern, and a module called Proc::Killfam by Stephen
Lidie to kill a list of processes and their children. These modules
are installed along with Proc::ProcessTable. Pod documentation is
included in both of them.

INSTALLATION

This module needs the File::Find and Storable modules in order to
work. File::Find is generally included with perl distributions;
Storable is available from CPAN.

After unpacking the tar file, do:

```
perl Makefile.PL
make
make test
make install
```

There is embedded POD documentation in ProcessTable.pm and
Process/Process.pm.

ACKNOWLEDGEMENTS

Thanks to the many people who have sent in ports and patches. Without
them this module would be impossible to support on so many platforms.
Patches are noted in the Changes file.

* David Paquet <David.Paquet@cnes.fr>: AIX port
* Mike Romberg
 <romberg@fsl.noaa.gov>: HPUX port
* Slaven Rezic <eserte@cs.tu-berlin.de>: FreeBSD port
* W. Phillip Moore <wpm@ms.com>: IRIX port
* Peter ? <hooft@natlab.research.philips.com>: IRIX version patch
* Bernhard Schmalhofer <Bernhard.Schmalhofer@gmx.de>: dec_osf port
* Sean Eskins <sean@gilasoft.com>: bsdi port
* Peter Reich <pr@alles.prima.de>: netbsd port
* Aaron Sherman <ajs@ajs.com>: Proc::Killall module
* Steve Lidie <sol0@Lehigh.EDU>: Killfam.pm module
* Martin Lucina <mato@catalyst.net.nz>: Unixware 7.x port
* Shawn Clifford <shawn.a.clifford@lmco.com> SunOS port
* J Robert Ray <jrray@jrray.org>:Windows (Cygwin) port.
* Tom Wyant <twyant3@comcast.net>:Darwin port.
* Mike Steinert <mike.steinert@motorola.com>: Nonstop-UX port.
* <bsd@openbsd.rutgers.edu>: Openbsd port.

Please note that Bernard Schmalhofer is no longer able to provide
support for the dec_osf port.

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* /opt/cola/permits/1424481720_1663911171.3100908/0/libproc-processtable-perl-0-634-orig-tar-gz/Proc-ProcessTable-0.634/README.md
No license file was found, but licenses were detected in source scan.

/*

* Copyright (c) 2001 by Shawn A. Clifford <shawn.a.clifford@lmco.com>
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*
* Modification History:
*
* Who When Description
* --- ---------- ----------
* SAC 30July2001 Original code
*/

Found in path(s):
* /opt/cola/permits/1424481720_1663911171.3100908/0/libproc-processtable-perl-0-634-orig-tar-gz/Proc-ProcessTable-0.634/os/SunOS.c
* /opt/cola/permits/1424481720_1663911171.3100908/0/libproc-processtable-perl-0-634-orig-tar-gz/Proc-ProcessTable-0.634/os/SunOS.h
No license file was found, but licenses were detected in source scan.

---
abstract: 'Perl extension to access the unix process table'
author:
 - 'Joachim Bargsten <jw@bargsten.org>'
build_requires:
 ExtUtils::MakeMaker: '0'
 Test::More: '0'
configure_requires:
 ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.44, CPAN::Meta::Converter version 2.150010'
license: artistic_2
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: '1.4'
name: Proc-ProcessTable
no_index:
 directory:
   - t
   - inc
requires:
 File::Find: '0'
 Storable: '0'
 perl: '5.006'
resources:
 repository: https://github.com/jwbargsten/perl-proc-processtable
version: '0.634'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
* /opt/cola/permits/1424481720_1663911171.3100908/0/libproc-processtable-perl-0-634-orig-tar-gz/Proc-

ProcessTable-0.634/META.yml
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* /opt/cola/permits/1424481720_1663911171.3100908/0/libproc-processtable-perl-0-634-orig-tar-gz/Proc-ProcessTable-0.634/os/bsdi.c
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* /opt/cola/permits/1424481720_1663911171.3100908/0/libproc-processtable-perl-0-634-orig-tar-gz/Proc-ProcessTable-0.634/os/bsdi.h
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/*
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*/

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* /opt/cola/permits/1424481720_1663911171.3100908/0/libproc-processtable-perl-0-634-orig-tar-gz/Proc-ProcessTable-0.634/os/OpenBSD.c
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Proc::ProcessTable

Please use rt.cpan.org to submit bugs and patches.

MAINTENANCE STATUS
==========
This module is now being lightly "maintained" by Jonathan Swartz <swartz@pobox.com>. I have nearly zero knowledge of the implementation within but wanted to rescue the distribution from abandonment and try to get critical bug fixes out. This will need to be a community effort.

The source is in github -

https://github.com/jwbargsten/perl-proc-processtable

Commit bits will be generously granted, send me your github id.

STATUS

======
This is BETA software; it seems to work, but use at your own risk :)

Currently works on darwin, nonstop-ux, Windows (both native MSWin32 and Cygwin), linux, solaris, aix, hpux, freebsd, irix, dec_osf, bsdi, netbsd, unixware 7.x, SunOS and openbsd. Please see the "README.osname" files for details on individual os implementations. Please see the file PORTING if you are interested
 in making it work on something else. Please see the file TODO for a list of issues that need to be addressed (and send me patches!).

Please note that the Windows port is derived from Cygwin code and is therefore covered by the Cygwin license (http://cygwin.com/licensing.html).

Multithread support is now available for Solaris; please see README.solaris for info. It may work under other OS's as well; please let me know if it does.

Comments, bug reports, patches and especially ports are greatly appreciated. If you want to submit a patch, *please* use standard context-diff format; if you're submitting a port, a tarball of the new files is great.

DESCRIPTION
==========
This module is a first crack at providing a consistent interface to Unix (and maybe other multitasking OS's) process table information. The impetus for this came about with my frustration at having to parse the output of various systems' ps commands to check whether specific processes were running on different boxes
 at a larged mixed Unix site.
The output format of ps was different on each OS, and sometimes changed with each new release of an OS. Also, running a ps subprocess from within a perl or shell script and parsing the output was not a very efficient or aesthetic way to do things.

With this module, you can do things like this:

```
# kill memory pigs
use Proc::ProcessTable;

my $t = Proc::ProcessTable->new;
foreach my $p ( @{$t->table} ) {
    if( $p->pctmem > 95 ){
      $p->kill(9);
    }
}
```

There is another short example in the file "example.pl" in the distribution. For a more elaborate example (in German), see <http://www.linux-magazin.de/ausgabe.1999.02/Proc/proc.html>. <shameless plug> If you can't read German, try my other module, WWW::Babelfish!</shameless plug>

There are also two contributed modules: a module called Proc::Killall contributed by Aaron Sherman to kill all processes whose command-lines match a given pattern, and a module called Proc::Killfam by Stephen Lidie to kill a list of processes and their children. These modules are installed along with Proc::ProcessTable. Pod documentation is included in both of them.

INSTALLATION

This module needs the File::Find and Storable modules in order to work. File::Find is generally included with perl distributions; Storable is available from CPAN.

After unpacking the tar file, do:

```
perl Makefile.PL
make
make test
make install
```

There is embedded POD documentation in ProcessTable.pm and Process/Process.pm.

ACKNOWLEDGEMENTS

Thanks to the many people who have sent in ports and patches. Without them this module would be impossible to support on so many platforms. Patches are noted in the Changes file.

David Paquet <David.Paquet@cnes.fr> AIX port
Mike Romberg <romberg@fsl.noaa.gov> HPUX port
Slaven Rezic <eserte@cs.tu-berlin.de> FreeBSD port
W. Phillip Moore <wpm@ms.com> IRIX port
Peter ? <hooft@natlab.research.philips.com> IRIX version patch
Bernhard Schmalhofer <Bernhard.Schmalhofer@gmx.de> dec_osf port
Sean Eskins <sean@gilasoft.com> bsdi port
Peter Reich <pr@alles.prima.de> netbsd port
Aaron Sherman <ajs@ajs.com> Proc::Killall module

Steve Lidie <sol0@Lehigh.EDU> Killfam.pm module
Martin Lucina <mato@catalyst.net.nz> Unixware 7.x port
Shawn Clifford <shawn.a.clifford@lmco.com> SunOS port
J Robert Ray <jrray@jrray.org> Windows (Cygwin) port.
Tom Wyant <twyant3@comcast.net> Darwin port.
Mike Steinert <mike.steinert@motorola.com>
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--
Daniel J. Urist
durist@frii.com

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Found in path(s):
* /opt/cola/permits/1424481720_1663911171.3100908/0/libproc-processtable-perl-0-634-orig-tar-gz/Proc-ProcessTable-0.634/os/obstack.c

No license file was found, but licenses were detected in source scan.

```
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```

Found in path(s):
* /opt/cola/permits/1424481720_1663911171.3100908/0/libproc-processtable-perl-0-634-orig-tar-gz/Proc-ProcessTable-0.634/os/aix.h
* /opt/cola/permits/1424481720_1663911171.3100908/0/libproc-processtable-perl-0-634-orig-tar-gz/Proc-ProcessTable-0.634/os/aix.c
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```
/*-
* This code relies heavily on the Darwin "ps" command, which is available
* from Apple in the adv_cmds portion of the Darwin distribution. The portions
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```

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*/

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* /opt/cola/permits/1424481720_1663911171.3100908/0/libproc-processtable-perl-0-634-orig-tar-gz/Proc-ProcessTable-0.634/os/darwin.c
No license file was found, but licenses were detected in source scan.

/*-
* This code relies heavily on the Darwin "ps" command, which is available
* from Apple in the adv_cmds portion of the Darwin distribution. The portions
* of this code which were included from that source are:
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*
* Author: James FitzGibbon <james.fitzgibbon@target.com>
*
* based on aix.h distributed with Proc::ProcessTable v0.35, which
* is Copyright (c) 1998, David Paquet.
*
*/

Found in path(s):
* /opt/cola/permits/1424481720_1663911171.3100908/0/libproc-processtable-perl-0-634-orig-tar-gz/Proc-ProcessTable-0.634/os/aix_getprocs.h

1.962 markupsafe 2.0.1-2build1

1.962.1 Available under license :

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1.963 pyrsistent 0.18.1-1build1

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1.964 libutempter 1.2.1-2build2

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly
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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally
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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
Mathieu Desnoyers
May 13th, 2009

IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the
userspace RCU library in a patch submitted on May 8, 2009 from Paul E.
McKenney and reviewed by Steven L. Bennett:

https://lists.lttng.org/pipermail/lttng-dev/2009-May/012835.html

I (Mathieu Desnoyers) re-implemented ACCESS_ONCE(), likely(), unlikely() and
barrier() from scratch without reference to the original code.

commit id : 2dc5fa0f7cfbfb0a64a7a67b39626650e863f16a

Bert Wesarg <bert.wesarg@googlemail.com> approved LGPL relicensing of his
patch in an email dated May 13, 2009 :

http://lkml.org/lkml/2009/5/13/16

xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel
and powerpc. They are MIT-licensed and therefore usable in LGPL code.
This cmpxchg code was obtained from the atomic_ops project:

http://www.hpl.hp.com/research/linux/atomic_ops/

I (Mathieu Desnoyers) wrote the remainder of the code.

The license for the library files in this project
was therefore changed to
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Then the package has been maintained by Charles Briscoe-Smith <cpbs@debian.org>. I gathered data for the 1999-2001 calendar files from various sources on the Internet, and I'd also like to thank Oliver Elphick, Julian Gilbey, Daniel Martin and Jaldhar H. Vyas for providing much useful data on the various religous calendars. I have edited the files they provided to fit calendar's requirements, so any errors should be attributed to me.

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1.984 ecj 3.26.0

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*          bug 349326 - [1.7] new warning for missing try-with-resources
*          bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 358903 - Filter practically unimportant resource leak warnings
*       bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject
```

into account
*	bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*	Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
*	Jesper S Moller <jesper@selskabet.org> - Contributions for
*	Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*	Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
*	bug 386692 - Missing "unused" warning on "autowired" fields
*	Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
*	bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource
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* Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking

```
*     Jesper Steen Moeller - Contribution for bug 406973 - [compiler] Parse MethodParameters attribute
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*         Bug 407191 - [1.8] Binary access support for type annotations
*******************************************************************************/
```

Found
 in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/MethodInfo.java
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* Contributors:
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*     Stephan Herrmann - Contribution for
*         bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/LabelFlowContext.java
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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*         Bug 328281 - visibility leaks not detected when analyzing unused field in private class
*         Bug 300576 - NPE Computing type hierarchy when compliance doesn't match libraries
*         Bug 354536 - compiling package-info.java still depends on the order of compilation units
```

```
*          Bug 349326 - [1.7] new warning for missing try-with-resources
*          Bug
 358903 - Filter practically unimportant resource leak warnings
*       Bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class
*       Bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
*       Bug 444024 - [1.8][compiler][null] Type mismatch error in annotation generics assignment which happens
"sometimes"
*       Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
*        Andy Clement (GoPivotal, Inc) aclement@gopivotal.com -
 Contributions for
*                       Bug 415821 - [1.8][compiler] CLASS_EXTENDS target type annotation missing for anonymous
classes
*     het@google.com - Bug 456986 - Bogus error when annotation processor generates annotation type
*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*          Bug 473178
*******************************************************************************/
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/ClassScope.java
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*          bug 343713 - [compiler] bogus line number in constructor of inner class in 1.5 compliance
*          bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 361407 - Resource leak warning when resource is assigned to a field outside of constructor
*       bug 368546 - [compiler][resource] Avoid
 remaining false positives found when compiling the Eclipse SDK
*       bug 383690 - [compiler] location of error re uninitialized final field should be aligned
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
```

```
*       bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code
generator
*     Ulrich Grave <ulrich.grave@gmx.de> - Contributions
 for
*                       bug 386692 - Missing "unused" warning on "autowired" fields
*******************************************************************************/
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ConstructorDeclaration.java
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```
*     Stephan Herrmann - Contribution for
*       Bug 440474 - [null] textual encoding of external null annotations
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SignatureWrapper.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/JrtFileSystem.java
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*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*       Bug 392099
```

- [1.8][compiler][null] Apply null annotation on types for null analysis
*	Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*	Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*	Bug 412076 - [compiler] @NonNullByDefault doesn't work for varargs parameter when in generic interface
*	Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument annotations
*	Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*	Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*	Bug 416175 - [1.8][compiler][null] NPE with a code snippet that used null annotations on wildcards
*	Bug 416174 - [1.8][compiler][null] Bogus name clash error with null annotations
*	Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*	Bug 400874 - [1.8][compiler]
Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*	Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*	Bug 425278 - [1.8][compiler] Suspect error: The target type of this expression is not a well formed parameterized type due to bound(s) mismatch
*	Bug 425798 - [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType
*	Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
*	Bug 426563 - [1.8] AIOOBE when method with error invoked with lambda expression as argument
*	Bug 426792 - [1.8][inference][impl] generify new type inference engine
*	Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
*	Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*	Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
*	Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*	Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.
*	Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*	Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
*	Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*	Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
*	Bug 390064 - [compiler][resource] Resource leak warning missing when extending parameterized class
*	Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*	Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
**********/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedTypeBinding.java
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* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 370930 - NonNull annotation not considered for enhanced for loops
* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 393719 - [compiler] inconsistent warnings
 on iteration variables
* Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
* Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
* Jesper S Moller - Contribution for
* bug 401853 - Eclipse Java compiler creates invalid bytecode (java.lang.VerifyError)
* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
**********/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ForeachStatement.java
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* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ArrayQualifiedTypeReference.java
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*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365519 - editorial cleanup after bug 186342 and bug 365387
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 435570 - [1.8][null] @NonNullByDefault
 illegally tries to affect "throws E"
*       Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this
location
*       Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
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*         Bug 473178
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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*       bug 185682 - Increment/decrement operators mark local variables as read
*       bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 392384 - [1.8][compiler][null] Restore nullness
 info from type annotations in class files
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*       Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
```

```
*******************************************************************************/
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*         bug 407191 - [1.8] Binary access support for type annotations
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*         Bug 440474 - [null] textual encoding of external null annotations
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*         bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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*    IBM Corporation - Fix for bug 328575
*    het@google.com - Bug 415274 - Annotation processing throws a NPE in getElementsAnnotatedWith()
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* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
* Bug 415790
 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/WhileStatement.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ForStatement.java
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* bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment
* bug 186342 - [compiler][null] Using annotations for null checking
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* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 370639 - [compiler][resource] restore the default for resource leak warnings
* bug 265744 - Enum switch should warn about missing default
* bug 374605 - Unreasonable warning for enum-based switch statements
* bug 381443
 - [compiler][null] Allow parameter widening from @NonNull to unannotated
* Bug 441208 - [1.8][null]SuppressWarnings("null") does not suppress / marked Unnecessary
* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
**********/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/impl/IrritantSet.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/ImplicitNullAnnotationVerifier.java
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* Stephan Herrmann - Contributions for
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 365519 - editorial cleanup after bug 186342 and bug 365387
* Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
***/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/MemberValuePair.java
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* BEA - Patch for bug 172743
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* Stephan Herrmann - Contribution for
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

```
*       Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
*       Bug 441797 - [1.8] synchronize type annotations on capture and its wildcard
*       Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker
 hint from applicability analysis
*       Bug 456924 - StackOverflowError during compilation
*       Bug 462790 - [null] NPE in Expression.computeConversion()
*     Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*       Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/CaptureBinding.java
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*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365519 - editorial cleanup after bug 186342 and bug 365387
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       bug 388795 - [compiler] detection of name clash depends on order of super interfaces
*       bug 388739 - [1.8][compiler] consider default methods when detecting whether
 a class needs to be declared abstract
*       bug 390883 - [1.8][compiler] Unable to override default method
*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       bug 401246 - [1.8][compiler] abstract class method should now trump conflicting default methods
*       bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
*       bug 403867 - [1.8][compiler] Suspect error about duplicate default methods
*       bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
*       bug 395681 - [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795
*       bug 409473 - [compiler] JDT cannot compile against JRE 1.8
*       Bug 420080 - [1.8] Overridden Default method is reported as duplicated
*       Bug 404690 - [1.8][compiler] revisit bridge generation after VM bug is fixed
 *       Bug 410325 - [1.7][compiler] Generified method override different between javac and eclipse compiler
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
*       Bug 440773 - [1.8][null]DefaultLocation.RETURN_TYPE erroneously affects method parameters in
```

@NonNullByDefault
*	Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*	Bug 446442 - [1.8] merge null annotations from super methods
**********/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MethodVerifier15.java
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*	Stephen Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*	bug 317046 - Exception during debugging when hover mouse over a field
*	bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*	bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*	bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class
 files
*	Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

```
*       Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*       Bug 424712 - [1.8][compiler] NPE in TypeBinding.isProvablyDistinctTypeArgument
*       Bug 426792 - [1.8][inference][impl] generify new type inference engine
*       Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
*       Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*       Bug 427626 - [1.8] StackOverflow while typing new ArrayList<String>().toArray( and asking for code completion
 *       Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*       Bug 435962 - [RC2] StackOverFlowError when building
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*       Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*       Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
*     Jesper S Moller <jesper@selskabet.org> -  Contributions for
*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/TypeBinding.java
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*           bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*           bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 265744 - Enum switch should warn about missing default
*       bug 374605 - Unreasonable warning for enum-based switch statements
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
 *******************************************************************************/
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/ast/SwitchStatement.java
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*           bug 349326 - [1.7] new warning for missing try-with-resources
*           bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
*       bug 358903 - Filter practically unimportant resource leak warnings
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure
 should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*       Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression
*       Bug 427411 - [1.8][generics] JDT reports type mismatch when using method that returns generic type
*       Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*       Bug 435962 - [RC2] StackOverFlowError when building
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*       Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*******************************************************************************/
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*
*     Jesper S Moller - Contributions for
*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
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*     Stephan Herrmann - Contribution for
*       Bug 440687 - [compiler][batch][null] improve command line option for external annotations
*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*         Bug 473178
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*    olivier_thomann@ca.ibm.com - add hashCode() and equals(..) methods
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/EnumConstantSignature.java
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*    wharley@bea.com - derived base class from BatchMessagerImpl
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/CompactConstructorDeclaration.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/TextBlock.java
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* Perry James - nullStatus method improvement (165346)
* Stephan Herrmann - Contribution for
* bug 383368 - [compiler][null] syntactic null analysis for field references
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jar/org/eclipse/jdt/internal/antadapter/messages.properties
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jar/org/eclipse/jdt/internal/compiler/batch/messages.properties
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/Sorting.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/ModuleLocationHandler.java
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*    Frits Jalvingh  - fix for bug 533830.
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*     Stephan Herrmann - Contribution for
*       Bug 432977 - [1.8][null] Incorrect 'type is not visible' compiler error
*       Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
********************************************************************************/
/* Taking the binding of QTR as an example, there could be different annotatable components, but we come in a
with a single binding, e.g:

 @T Z;                          type => Z  annotations => [[@T]]
     @T Y.@T Z                        type => Z  annotations => [[@T][@T]]
     @T X.@T Y.@T Z                       type => Z  annotations => [[@T][@T][@T]]
     java.lang.@T X.@T Y.@T Z                 type => Z  annotations => [[][][@T][@T][@T]]
     in all these cases the incoming type binding is for Z, but annotations are for different levels. We need to align their
layout for proper attribution.
    */
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/AnnotatableTypeSystem.java
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*     Erling Ellingsen -  patch for bug 125570
*     Stephan Herrmann - Contribution for
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
*     Sebastian Zarnekow - Contribution for
*       Bug 544921 - [performance] Poor performance with large source files
********************************************************************************/
```

Found
 in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/CompilationUnitScope.java
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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*       bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*       bug 292478 - Report potentially null across variable assignment
*       bug 335093 - [compiler][null] minimal hook for future null annotation support
*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 358903 - Filter practically unimportant resource leak warnings
*       bug 370639 - [compiler][resource] restore the default for resource leak warnings
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 430150 - [1.8][null] stricter checking against type variables
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*     Jesper S Moller - Contributions for
*       Bug 378674 - "The method can be declared as static" is wrong
*       Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*       Bug 529556 - [18.3] Add content assist support for 'var' as a type
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*       Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*       Bug 426616 - [1.8][compiler] Type Annotations, multiple problems
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/LocalDeclaration.java
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*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365519 - editorial cleanup after bug 186342 and bug 365387
*       bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*       bug 382353 - [1.8][compiler] Implementation property modifiers should
 be accepted on default methods.
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this
location
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*     Jesper S Moller <jesper@selskabet.org> - Contributions for
*       bug 378674 - "The method can be declared as static" is wrong
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/MethodDeclaration.java
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* Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
**********/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/ExpressionContext.java
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* bug 186342 - [compiler][null] Using annotations for null checking
* bug 367203 - [compiler][null] detect assigning null to nonnull argument
* bug 365519 - editorial cleanup after bug 186342 and bug 365387
* bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
* bug 365531 - [compiler][null] investigate alternative strategy for internally
 encoding nullness defaults
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this
location
* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
* Bug 443347 - [1.8][null]
 @NonNullByDefault should not affect constructor arguments of an anonymous instantiation
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param

```
*       Bug 456584 - [1.8][null] Bogus warning for return type variable's @NonNull annotation being 'redundant'
*       Bug 471611 - Error on hover on call to generic method with null annotation
*     Jesper Steen Moller - Contributions for
*       Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MethodBinding.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryAnnotation.java
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*     Stephan Herrmann  - Contribution for bug 295551
*     Jesper S Moller   - Contributions for
*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*     Frits Jalvingh    - contributions for bug 533830.
```

```
*     Red Hat Inc.      - add module-info Javadoc support
*******************************************************************************/
```

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/CompilationUnitDeclaration.java
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*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/BreakStatement.java
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*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*                    Bug 384687 - [1.8] Wildcard type arguments should be rejected for lambda and reference expressions
*       Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
```

```
*    Stephan Herrmann - Contribution for
*       bug 402028 - [1.8][compiler] null analysis for reference
 expressions
*       bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super via I.super.m() syntax
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*       Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to
Files::walk
*       Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*       Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
*       Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method
*       Bug 427438
 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 428264 - [1.8] method reference of generic class causes problems (wrong inference result or NPE)
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 426537 - [1.8][inference] Eclipse compiler thinks I<? super J> is compatible with I<J<?>> - raw type J
involved
*       Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*       Bug 435689 - [1.8][inference] Type inference not occurring with lambda expression and method reference
*       Bug 438383 - [1.8][null] Bogus warning: Null type safety at method return type
*       Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
*       Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
*       Bug 438945 - [1.8] NullPointerException
 InferenceContext18.checkExpression in java 8 with generics, primitives, and overloading
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*       Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
*       Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
*       Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*       Bug 470542 - NullPointerException in ReferenceExpression.isPotentiallyCompatibleWith (962)
*        Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contribution for
*                        Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ReferenceExpression.java
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* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
**********/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/BaseTypeBinding.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocModuleReference.java
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*     IBM Corporation - bug fixes
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/Archive.java
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*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*       bug 403086 - [compiler][null] include the effect of 'assert'
 in syntactic null analysis for fields
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/EqualExpression.java

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*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*        bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*        Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*        Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
*******************************************************************************/
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 in path(s):
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*     Stephan Herrmann - Contributions for
*        bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*        bug 401030 - [1.8][null] Null analysis support for lambda methods.
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*        Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*******************************************************************************/
```

Found

in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/LocalTypeBinding.java
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* Contributors:
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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contribution for bug 185682 - Increment/decrement operators mark local variables as read
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* Contributors:
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* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 407191 - [1.8] Binary access support for type annotations
**********/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryField.java
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* Stephan Herrmann - Contributions for
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 365519 - editorial cleanup after bug 186342 and bug 365387
* bug 358903 - Filter practically unimportant resource leak warnings
* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
* bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
* bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug

400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
* Bug 426792 - [1.8][inference][impl] generify new type inference engine
* Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
* Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
* Bug 418743 - [1.8][null] contradictory annotations on invocation of generic method not reported
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 431581 - Eclipse compiles what it should not
* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
* Bug 446442 - [1.8] merge null annotations from
super methods
* Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error messages
* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
* Jesper S Moller - Contributions for
* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
* bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
* Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
* bug 386692 - Missing "unused" warning on "autowired" fields
* Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
* bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource
* Sebastian Zarnekow - Contributions
for
* bug 544921 - [performance] Poor performance with large source files
**********/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ReferenceBinding.java
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*       Bug 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda
*******************************************************************************/
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* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
* bug 370639 - [compiler][resource] restore the default for resource leak warnings
* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
* Bug 417758 - [1.8][null] Null safety compromise during array creation.
* Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
**********/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ArrayInitializer.java
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* Stephan Herrmann - Contribution for
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 416174 - [1.8][compiler][null] Bogus name clash error with null annotations
* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
* Bug 425783 - An

internal error occurred during: "Requesting Java AST from selection". java.lang.StackOverflowError
*	Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*	Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
**********/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/RawTypeBinding.java
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*		bug 185682 - Increment/decrement operators mark local variables as read
*	bug 186342 - [compiler][null] Using annotations for null checking
*	bug 365519 - editorial cleanup after bug 186342 and bug 365387
*	bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*	bug 345305 - [compiler][null]
Compiler misidentifies a case of "variable can only be null"
*	Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first field
*	Bug 458396 - NPE in CodeStream.invoke()
*	Jesper S Moller - Contributions for
*	bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*	bug 331649 - [compiler][null] consider null annotations for fields
*	bug 383368 - [compiler][null] syntactic null analysis for field references
*	bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*	Jesper S Moller <jesper@selskabet.org> - Contributions for
*	bug 378674 - "The method can be declared as static" is wrong
**********/

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*     Stephan Herrmann - Contributions for
*          bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
*          bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*          bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 358903 - Filter practically unimportant resource
 leak warnings
*       bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*       bug 370639 - [compiler][resource] restore the default for resource leak warnings
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 424727 - [compiler][null] NullPointerException in
nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)
*       Bug 424710
 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*       Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*       Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*       Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*       Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload
context
*       Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
*       Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
*       Bug 424930 - [1.8][compiler] Regression: "Cannot infer type arguments" error from compiler.
*       Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
 *       Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 429203 - [1.8][compiler] NPE in AllocationExpression.binding
*       Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException
instead of IOException)
*       Bug 434297 - [1.8] NPE in LamdaExpression.analyseCode with lamda expression nested in a conditional
expression
```

* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
* Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
* Jesper S Moller <jesper@selskabet.org> - Contributions for
* bug 378674 - "The method can be declared as static" is wrong
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive
code generation support for type annotations (from Olivier's work)
* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic
bridge method
* Till Brychcy - Contributions for
* bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File
* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
* Bug 473178
**********/

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* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 361407 - Resource leak warning when resource is assigned to a field outside of constructor
* bug 370639 - [compiler][resource] restore the default for resource leak warnings
* bug 388996 - [compiler][resource] Incorrect
 'potential resource leak'
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
* Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
* Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
* Bug 427438 - [1.8][compiler]
 NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method
**********/

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```
*           bug 358827 - [1.7] exception analysis for t-w-r spoils null analysis
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*       bug 345305 - [compiler][null]
 Compiler misidentifies a case of "variable can only be null"
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*       bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 455723 - Nonnull argument not correctly inferred in loop
*       Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
*       Bug 446691 - [1.8][null][compiler] NullPointerException in SingleNameReference.analyseCode
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/FlowContext.java
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*           bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
*       bug 358903 - Filter practically unimportant resource leak warnings
*       bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*       bug 370639 - [compiler][resource]
 restore the default for resource leak warnings
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 379784 - [compiler] "Method can be static" is not getting reported
*       bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*       bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 371614 - [compiler][resource] Wrong "resource leak" problem on return/throw inside while loop
*       Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
```

*	Bug 444964 - [1.7+][resource] False resource leak warning (try-with-resources for ByteArrayOutputStream - return inside for loop)
*	Bug 396575 - [compiler][resources] Incorrect Errors/Warnings check for potential resource leak when surrounding with try-catch
*	Jesper S Moller <jesper@selskabet.org> - Contributions for
*	bug 378674 - "The method can be declared as static" is wrong
*	Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it extends the outer class
**********/

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* Contributors:
*	Walter Harley - initial API and implementation
*	IBM Corporation - fix for 342598, 382590
*	Jean-Marie Henaff <jmhenaff@google.com> (Google) - Bug 481555

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* IBM Corporation - initial API and implementation
* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
* bug 185682 - Increment/decrement operators mark local variables as read
* bug 331649 - [compiler][null] consider null annotations for fields
* bug 383368 - [compiler][null] syntactic null analysis for field references
* Bug 412203 - [compiler] Internal compiler error: java.lang.IllegalArgumentException: info cannot be null
* Bug 400874 - [1.8][compiler]
 Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 458396 - NPE in CodeStream.invoke()
* Jesper S Moller - Contributions for
* Bug 378674 - "The method can be declared as static" is wrong
* Robert Roth <robert.roth.off@gmail.com> - Contributions for
* Bug 361039 - NPE in FieldReference.optimizedBooleanConstant
***/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/FieldReference.java
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* Stephan Herrmann - Contribution for
* Bug 440687 - [compiler][batch][null] improve command line option for external annotations
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* Stephan Herrmann - Contributions for
* Bug 360328 - [compiler][null] detect null problems in nested code (local class inside a loop)
* Bug 388630 - @NonNull diagnostics at line 0
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug 424727 - [compiler][null] NullPointerException in nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)
* Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
* Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it extends the outer class
* Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for
* Bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource
* Bug 546084 - Using Junit 5s MethodSource leads to ClassCastException
**********/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/TypeDeclaration.java
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* Stephan Herrmann - Contribution for
* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
* Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression
* Bug 426542 - [1.8] Most specific method not picked when one method has intersection type as type parameter
* Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
* Andy
 Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
* Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
**********/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/IntersectionTypeBinding18.java
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* IBM Corporation - Bug fixes
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/CharArrayCache.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashSetOfInt.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/InvalidInputException.java
*
 /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/BranchLabel.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/ObjectVector.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/VerificationTypeInfo.java
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*     Jesper Steen Moller - Contributions for:
*         Bug 412149: [1.8][compiler] Emit repeated annotations into the designated container
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/SingleMemberAnnotation.java
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* Stephan Herrmann - Contributions for
* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
* Bug 417758 - [1.8][null] Null safety compromise during array creation.
* Bug
 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
**********/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ArrayAllocationExpression.java
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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
* bug 185682 - Increment/decrement operators mark local variables as read
* bug 331649 - [compiler][null] consider null annotations for fields
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 447088 - [null] @Nullable on fully qualified field type is ignored
* Bug 435805 - [1.8][compiler][null]
 Java 8 compiler does not recognize declaration style null annotations
* Bug 458396 - NPE in CodeStream.invoke()
* Bug 446217 - [null] @NonNullByDefault in package-info.java causes bogus "null type safety" warning
* Till Brychcy - Contribution for
* bug 467094 - [1.8][null] TYPE_USE NullAnnotations of array contents are applied to field.
**********/

Found in path(s):

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/FieldBinding.java
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*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*           Bug 407191 - [1.8] Binary access support for type annotations
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/MethodInfoWithTypeAnnotations.java
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*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*         Bug 473178
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* Nikolay Metchev (nikolaymetchev@gmail.com) - Contributions for
* bug 411098 - [compiler][resource] Invalid Resource Leak Warning using ternary operator inside try-with-resource
**********/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/FakedTrackingVariable.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SimpleSetOfCharArray.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/CachedIndexEntry.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SortedCharArrays.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SortedSimpleNameVector.java
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* Jesper S Moller - Contributions for
* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
* Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
* Stephan Herrmann - Contribution for
* bug 401030 - [1.8][null] Null analysis support for lambda methods.
* Bug 392099
 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
* Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType
* Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression
* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
* Bug 425798 - [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType
* Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
* Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
* Bug 426563 - [1.8] AIOOBE when method with error
 invoked with lambda expression as argument
* Bug 420525 - [1.8] [compiler] Incorrect error "The type Integer does not define sum(Object, Object) that is

applicable here"
*	Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*	Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
*	Bug 428786 - [1.8][compiler] Inference needs to compute the "ground target type" when reducing a lambda
compatibility constraint
*	Bug 428980 - [1.8][null] simple expression as lambda body doesn't leverage null annotation on argument
*	Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException
instead of IOException)
*	Bug 432110 - [1.8][compiler] nested lambda type incorrectly inferred vs javac
*	Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type
variables
*	Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*	Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*	Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*	Bug 455723 - Nonnull argument not correctly inferred in loop
*	Bug 463728 - [1.8][compiler][inference] Ternary operator in lambda derives wrong type
*	Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*	Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
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*	Walter Harley	- Patch for ensuring the parent folders are created
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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* wharley@bea.com - initial API and implementation
* IBM Corporation - fix for 342598
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* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 427438 - [1.8][compiler] NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
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*    IBM Corporation - fix for bug 342757
*    Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/MethodInfoWithParameterAnnotations.java
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*     David Foerster - patch for toUpperCase as described in https://bugs.eclipse.org/bugs/show_bug.cgi?id=153125
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```
*     Stephan Herrmann - Contributions for
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365519 - editorial cleanup after bug 186342 and bug 365387
*       bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
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*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*       Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
*       Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
*       Bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com
 - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
*                       Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code generator
*                       Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
*                       Bug 415541 - [1.8][compiler] Type annotations in the body of static initializer get dropped
*                       Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code generator
*                       Bug 415470 - [1.8][compiler] Type annotations on class declaration go vanishing
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*                       Bug 434556 - Broken class file generated for incorrect annotation usage
*                       Bug 442416
 - $deserializeLambda$ missing cases for nested lambdas
*     Stephan Herrmann - Contribution for
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*     Olivier Tardieu tardieu@us.ibm.com - Contributions for
*       Bug 442416 - $deserializeLambda$ missing cases for nested lambdas
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ClassFile.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/TypeAnnotationWalker.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ICompilerRequestor.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/AccessRestriction.java

*
/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/diagnose/RangeUtil.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/OperatorIds.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/AccessRule.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/FalseLiteral.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFileStruct.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IDependent.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemBinding.java
*
/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfIntValues.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SimpleLookupTable.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ISourceImport.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/AbortMethod.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/ShouldNotImplement.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredImport.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfType.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/SubRoutineStatement.java
*
/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/DoubleCache.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/InnerEmulationDependency.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocReturnStatement.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/AbortCompilationUnit.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/NLSTag.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/PrefixExpression.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/IDebugRequestor.java
*

/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/TrueLiteral.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SimpleSet.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/CharLiteral.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/antadapter/AntAdapterMessages.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/AbortType.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObjectToInt.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/AbortCompilation.java
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/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/IProblemFactory.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticFieldBinding.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfInt.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/FloatCache.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ImportConflictBinding.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ExtendedStringLiteral.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/Label.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/InnerClassInfo.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/PostfixExpression.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocArrayQualifiedTypeReference.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfLong.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemFieldBinding.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocSingleNameReference.java
*
/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/IntegerCache.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/codegen/ObjectCache.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticArgumentBinding.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/MagicLiteral.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedFieldBinding.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObjectToIntArray.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/codegen/LongCache.java
*
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* bug 331649 - [compiler][null] consider null annotations for fields
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 458396 - NPE in CodeStream.invoke()
**********/

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* Jesper S Moller - Contributions for
* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
* Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
**********/

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 in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFileConstants.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/NumberLiteral.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/LongLiteral.java
*
 /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/InitializationFlowContext.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/IntLiteral.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/FloatLiteral.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/IntLiteralMinValue.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/InferenceContext.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/LongLiteralMinValue.java
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*           bug 332637 - Dead Code detection removing code that isn't dead
*           bug 358827 - [1.7] exception analysis for t-w-r spoils null analysis
*           bug 349326 - [1.7] new warning for missing try-with-resources
*           bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
*       bug 358903 - Filter practically unimportant resource
 leak warnings
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 401088 - [compiler][null] Wrong warning "Redundant null check" inside nested try statement
*       bug 401092 - [compiler][null] Wrong warning "Redundant null check" in outer catch of nested try
*       bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*       bug 384380 - False positive on a ?? Potential null pointer access ?? after a continue
*       Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
*       Bug 371614 - [compiler][resource] Wrong "resource leak" problem on return/throw inside while loop
*       Bug 444964 - [1.7+][resource] False resource leak warning (try-with-resources for ByteArrayOutputStream -
return inside for loop)
*     Jesper Steen Moller -
 Contributions for
*       bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                     Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*
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*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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*     Nick Teryaev - fix for bug (https://bugs.eclipse.org/bugs/show_bug.cgi?id=40752)
*     Stephan Herrmann - Contributions for
*        bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*        bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*        bug
 383368 - [compiler][null] syntactic null analysis for field references
*        bug 401017 - [compiler][null] casted reference to @Nullable field lacks a warning
*        bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*        Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*        Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*        Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*        Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*        Bug 430150 - [1.8][null] stricter checking against type variables
*        Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style
 null annotations
*        Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*        Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                        Bug 415541 - [1.8][compiler] Type annotations in the body of static initializer get dropped
```

**********/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/CastExpression.java
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*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 367203 - [compiler][null] detect assigning null to nonnull argument
*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*   bug 382353 - [1.8][compiler] Implementation property modifiers
 should be accepted on default methods.
*   bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   bug 388281 - [compiler][null] inheritance of null annotations as an option
*   bug 401030 - [1.8][null] Null analysis support for lambda methods.
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument annotations
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*   Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize
 declaration style null annotations
*   Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
**********/

Found in path(s):
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*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
**********/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocImplicitTypeReference.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ElementValuePair.java
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* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Jesper Steen Moller - Contributions for
* Bug 412150 [1.8] [compiler]
 Enable reflected parameter names during annotation processing
***/

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*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*   bug 385626 - @NonNull fails across
 loop boundaries
*   bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*   Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*   Bug 455723 - Nonnull argument not correctly inferred in loop
*   Jesper S Moller - Contributions for
*   bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
**********/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/FinallyFlowContext.java
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*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code generator
**********/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/IntersectionCastTypeReference.java
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*   wharley@bea.com - initial API and implementation
*   IBM Corporation - fix for 342470
*   IBM Corporation - fix for 342598
*   IBM Corporation - Java 8 support
**********/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/TypeParameterElementImpl.java
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*
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*        bug 332637 - Dead Code detection removing code that isn't dead
*        bug 391517 - java.lang.VerifyError on code that runs correctly in Eclipse 3.7 and eclipse 3.6
*        bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*******************************************************************************/
```

Found in path(s):
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*           bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment
*        bug 186342 - [compiler][null] Using annotations for null checking
*        bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*        bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        bug
 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*        bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*        Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*        Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*        Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*        Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*        Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations
*        Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*        Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*        Bug 416190 - [1.8][null]
 detect incompatible overrides due to null type annotations
*        Bug 424624 - [1.8][null] if a static-object with annotation @NonNull is used, a warning is shown
*        Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*        Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
*        Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
```

```
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)
*       Bug 457079 - Regression: type inference
*       Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*       Bug 455180 - IllegalStateException in AnnotatableTypeSystem.getRawType
*       Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/LookupEnvironment.java
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*     Stephan Herrmann - Contribution for
*       Bug 458396 - NPE in CodeStream.invoke()
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*       bug 292478 - Report potentially null across variable assignment
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field
 references
*       bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*       bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 426792 - [1.8][inference][impl] generify new type inference engine
*       Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 426996 - [1.8][inference]
 try to avoid method Expression.unresolve()?
*       Bug 428274 - [1.8] [compiler] Cannot cast from Number to double
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*         Bug 473178
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*    wharley@bea.com - initial API and implementation
*                    (originally in org.eclipse.jdt.apt.core)
*    IBM Corporation - Bug 513790
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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*           bug 185682 - Increment/decrement operators mark local variables as read
*           bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*       bug 331649 - [compiler][null] consider
 null annotations for fields
*       Bug 466308 - [hovering] Javadoc header for parameter is wrong with annotation-based null analysis
*     Jesper S Møller <jesper@selskabet.org> -  Contributions for
*       Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*
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* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
* bug 370639 - [compiler][resource] restore the
 default for resource leak warnings
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
* bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 416267 - NPE in QualifiedAllocationExpression.resolveType
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 424415 - [1.8][compiler] Eventual
 resolution of ReferenceExpression is not seen to be happening.
* Bug 427438 - [1.8][compiler] NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Jesper S Moller <jesper@selskabet.org> - Contributions for
* bug 378674 - "The method can be declared as static" is wrong
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's

work)
* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method
* Till Brychcy - Contributions for
* bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File
**********/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedAllocationExpression.java
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* Contributors:
* IBM Corporation - initial API and implementation
* Benjamin Muskalla - Contribution for bug 239066
* Stephan Herrmann - Contributions for
* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
* bug 295551 - Add option to automatically promote all warnings to errors
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 186342 - [compiler][null] Using annotations for null checking
* bug
370639 - [compiler][resource] restore the default for resource leak warnings
* bug 366063 - Compiler should not add synthetic @NonNull annotations
* bug 374605 - Unreasonable warning for enum-based switch statements
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
* bug 383368 - [compiler][null] syntactic null analysis for field references
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
* Jesper Steen Moller - Contributions for
* bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code
* bug 407297 - [1.8][compiler] Control generation of parameter names by option
**********/

Found
in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/impl/CompilerOptions.java
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*        bug 349326 - [1.7] new warning for missing try-with-resources
*        bug 186342 - [compiler][null] Using annotations for null checking
*        bug 364890 - BinaryTypeBinding should use char constants from Util
*        bug 365387 - [compiler][null] bug 186342: Issues to follow up post review and verification.
*        bug 358903 - Filter practically unimportant resource leak warnings
*        bug
 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*        bug 388800 - [1.8][compiler] detect default methods in class files
*        bug 388281 - [compiler][null] inheritance of null annotations as an option
*        bug 331649 - [compiler][null] consider null annotations for fields
*        bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*        Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*        Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*        Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*        Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*        Bug 392245 - [1.8][compiler][null] Define whether
 / how @NonNullByDefault applies to TYPE_USE locations
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*        Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
*        Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*        Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
*        Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
*        Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*        Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*        Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*        Bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)
*        Bug 454182 - Internal compiler error when using
 1.8 compliance for simple project
*        Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
*        Bug 447661 - [1.8][null] Incorrect 'expression needs unchecked conversion' warning
*    Jesper Steen Moller - Contributions for
```

*	Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
*	Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*	Sebastian Zarnekow - Contributions for
*	bug 544921 - [performance] Poor performance with large source files
*	Alexander Lehmann - Contributions for
*	bug 566258 - Intermittent NPE in APT RoundDispatcher
**********/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/BinaryTypeBinding.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/InferenceVariable.java
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* Contributors:
*	IBM Corporation - initial API and implementation
*	Luiz-Otavio Zorzella <zorzella at gmail dot com> - Improve CamelCase algorithm
*	Gábor Kövesdán - Contribution for Bug 350000 - [content assist] Include non-prefix matches in auto-complete suggestions
*	Stefan Xenos <sxenos@gmail.com> (Google) - Bug 501283 - Lots of hash collisions during indexing

**********/

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* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/ExceptionLabel.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/PolyParameterizedGenericMethodBinding.java
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*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*         Bug 473178
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ConstraintTypeFormula.java
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*
* Contributors:
* wharley@bea.com - initial API and implementation
* IBM Corporation - fix for 342598
* IBM Corporation - Java 8 support
* het@google.com - Bug 427943 - The method org.eclipse.jdt.internal.compiler.apt.model.Factory.getPrimitiveType does not throw IllegalArgumentException
**********/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/Factory.java
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* Contributors:
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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
* bug 292478 - Report potentially null across variable assignment

```
*           bug 332637 - Dead Code detection removing code that isn't dead
*       bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*       Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*       Bug 421035 - [resource]
 False alarm of resource leak warning when casting a closeable in its assignment
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/FlowInfo.java
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*    Igor Fedorenko - extracted from ElementsImpl
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*     Stephan Herrmann - Contributions for
*       bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*       bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
```

*	Bug 422796 - [compiler][null] boxed boolean reported as potentially null after
null test in lazy disjunction
**********/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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*	Stephen Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*		bug 133125 - [compiler][null] need to report the null status of expressions and analyze them simultaneously
*		bug 292478 - Report potentially null across variable assignment
*	bug 324178 - [null] ConditionalExpression.nullStatus(..) doesn't take into account the analysis of condition itself
*	bug 354554 - [null] conditional with redundant condition
yields weak error message
*		bug 349326 - [1.7] new warning for missing try-with-resources
*	bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*	bug 383368 - [compiler][null] syntactic null analysis for field references
*	bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*	Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*	Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*	Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*	Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*	Bug 426078 - [1.8] VerifyError when conditional expression passed as an argument
*	Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*	Bug 418537 - [1.8][null] Fix null type annotation analysis for poly conditional expressions
*	Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*	Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
**********/

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*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*     Jesper S Moller - Contributions for
*       bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/CompoundAssignment.java
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*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*     Stephan Herrmann - Contribution for
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 423504 - [1.8] Implement "18.5.3
 Functional Interface Parameterization Inference"
*       Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType
*       Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression
*       Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
*       Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
```

```
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 446442 - [1.8] merge null annotations from super methods
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                     Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
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*                     Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                     Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*   bug 328281 - visibility leaks not detected when analyzing unused field in private class
*   bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
**********/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ExtraCompilerModifiers.java
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*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
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*     Till Brychcy - Contributions for
*                         Bug 467482 - TYPE_USE null annotations: Incorrect "Redundant null check"-warning
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*          Bug 407191 - [1.8] Binary access support for type annotations
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*   bug 331649 - [compiler][null] consider null annotations for fields
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   Jesper S Moller - Contributions for
*   Bug 378674 - "The method can be declared as static" is wrong
**********/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ThisReference.java
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* Contributors:
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 407191 - [1.8] Binary access support for type annotations
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryTypeAnnotation.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/FieldInfoWithTypeAnnotation.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/UsesStatement.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/OpensStatement.java
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* wharley@bea.com - initial API and implementation
* IBM Corporation - Java 8 support
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/NoTypeImpl.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredElement.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredUnit.java
*
 /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredField.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/AnnotationMethodDeclaration.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathLocation.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ICompilationUnit.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/NameEnvironmentAnswer.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ClassLiteralAccess.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/INameEnvironment.java
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*        bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
*        bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*     Jesper S Moller <jesper@selskabet.org> - Contributions for
*        bug 378674 - "The method can be declared as static" is wrong
*******************************************************************************/
```

Found
 in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedThisReference.java
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*     Jesper S Moller - Contributions for
*        bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*    Stephan Herrmann - Contribution for
*        bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*        Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*        Bug 416182 - [1.8][compiler][null]
 Contradictory null annotations not rejected
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/lookup/ProblemReasons.java
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*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*       bug 331649 - [compiler][null] consider null annotations for fields
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415043 - [1.8][null] Follow-up re null type annotations
 after bug 392099
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location
*       Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE_USE locations
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
```

```
*       Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
*       Bug 469584 - ClassCastException in Annotation.detectStandardAnnotation (320)
*       Andy Clement (GoPivotal,
 Inc) aclement@gopivotal.com - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                       Bug 409517 - [1.8][compiler] Type annotation problems on more elaborate array references
*                       Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped
*                       Bug 414384 - [1.8] type annotation on abbreviated inner class is not marked as inner type
*     Jesper S Moller <jesper@selskabet.org> -  Contributions for
*                       Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*                       Bug 412151 - [1.8][compiler] Check repeating annotation's collection type
*                       Bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
*                       Bug 419209 - [1.8] Repeating container annotations
 should be rejected in the presence of annotation it contains
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Annotation.java
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*     Carmi Grushko - Bug 465048 - Binding is null for class literals in synchronized blocks
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*     Karen Moore - fix for https://bugs.eclipse.org/bugs/show_bug.cgi?id=207411
*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*           bug 185682 - Increment/decrement operators mark local variables as read
*           bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365519 - editorial cleanup after
 bug 186342 and bug 365387
*       bug 374605 - Unreasonable warning for enum-based switch statements
*       bug 384870 - [compiler] @Deprecated annotation not detected if preceded by other annotation
*       bug 393719 - [compiler] inconsistent warnings on iteration variables
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 424742 - [1.8] NPE in LambdaExpression.isCompatibleWith
*       Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*       Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*       Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*       Bug 426366
 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
*       Bug 427282 - [1.8][compiler] AIOOB (-1) at
org.eclipse.jdt.internal.compiler.ClassFile.traverse(ClassFile.java:6209)
*       Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
*       Bug 432348 - [1.8] Internal compiler error (NPE) after upgrade to 1.8
*       Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables
*       Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*       Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
*       Bug 446442 - [1.8] merge null annotations from super methods
*       Bug 437072 - [compiler][null] Null analysis emits
 possibly incorrect warning for new int[][] despite @NonNullByDefault
*     Jesper S Moller - Contributions for
*       bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*       bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*       bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*       bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
*       bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
*     Till Brychcy - Contributions for
*             bug 467094 - [1.8][null] TYPE_USE NullAnnotations of array contents are applied to field.
*******************************************************************************/
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Found in path(s):

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ASTNode.java
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*          bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*          bug 349326 - [1.7] new warning for missing try-with-resources
*          bug 360328 - [compiler][null] detect null problems in nested code (local class inside a loop)
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365835 - [compiler][null] inconsistent error reporting.
 *       bug 365519 - editorial cleanup after bug 186342 and bug 365387
*       bug 358903 - Filter practically unimportant resource leak warnings
*       bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*       bug 370639 - [compiler][resource] restore the default for resource leak warnings
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*       bug 401030 - [1.8][null] Null analysis support for lambda
 methods.
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*       Bug 417758 - [1.8][null] Null safety compromise during array creation.
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 430150 - [1.8][null] stricter checking against type variables
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 455723 - Nonnull argument not correctly inferred in loop
*     Jesper S Moller - Contributions
 for
*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/tool/EclipseCompilerRequestor.java
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* Stephan Herrmann - Contributions for
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 417295 - [1.8[[null] Massage type annotated
null analysis to gel well with deep encoded type bindings.
* Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedMethodBinding.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/BatchProcessingEnvImpl.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/RoundDispatcher.java

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*     Stephan Herrmann - Contributions for
*        bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*        bug 383368 - [compiler][null] syntactic null analysis for field references
*        bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*        bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*        Bug
 422796 - [compiler][null] boxed boolean reported as potentially null after null test in lazy disjunction
*******************************************************************************/
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/OR_OR_Expression.java
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*     Stephan Herrmann - Contributions for
*        bug 335093 - [compiler][null] minimal hook for future null annotation support
*        bug 349326 - [1.7] new warning for missing try-with-resources
*        bug 186342 - [compiler][null] Using annotations for null checking
*        bug 365983 - [compiler][null] AIOOB with null annotation analysis and varargs
*        bug 368546 - [compiler][resource] Avoid remaining false positives found when
```

compiling the Eclipse SDK
*	bug 370930 - NonNull annotation not considered for enhanced for loops
*	bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*	bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*	bug 331649 - [compiler][null] consider null annotations for fields
*	bug 383368 - [compiler][null] syntactic null analysis for field references
*	Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*	Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*	Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*	Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*	Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*	Bug 417758 - [1.8][null] Null safety compromise
during array creation.
*	Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*	Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*	Bug 418537 - [1.8][null] Fix null type annotation analysis for poly conditional expressions
*	Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*	Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
*	Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*	Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*	Bug 455723 - Nonnull argument not correctly inferred in loop
*	Andy Clement - Contributions for
*		Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
*		Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
**********/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Statement.java
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* Contributors:
*	tyeung@bea.com - initial API and implementation
*	olivier_thomann@ca.ibm.com - add hashCode() and equals(..) methods
**********/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationInfo.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ElementValuePairInfo.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathJep247Jdk12.java
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* Contributors:
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*     Stephan Herrmann - Contributions for
*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 402993 - [null] Follow up
 of bug 401088: Missing warning about redundant null check
*       Bug 440282 - [resource] Resource leak detection false negative with empty finally block
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Block.java

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* Contributors:
*    wharley@bea.com - initial API and implementation
*
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/IProcessorProvider.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/NameImpl.java
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* Contributors:
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* Stephan Herrmann - Contributions for
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 358903 - Filter practically unimportant resource leak warnings
* bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
* bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
* bug 382069 - [null] Make
 the null analysis consider JUnit's assertNotNull similarly to assertions
* Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly
* Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
* Bug 425183 - [1.8][inference] make CaptureBinding18 safe
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
* Jesper S Moller - Contributions for
* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
* Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 405104 - [1.8][compiler][codegen]
 Implement support for serializeable lambdas
* Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
* bug 386692 - Missing "unused" warning on "autowired" fields
* Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
* bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
when using MethodSource
**********/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/TypeConstants.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/EclipseFileManager.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/EclipseFileManager.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/StackMapFrameCodeStream.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/PackageElementImpl.java
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*   Jesper S Moller - Contributions for
*   Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335

```
*       Bug 406973 - [compiler] Parse MethodParameters attribute
*       Andy Clement - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*******************************************************************************/
```

Found
in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/codegen/AttributeNamesConstants.java
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*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
 *       Bug 429403 - [1.8][null] null mismatch from type arguments is not reported at field initializer
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 458396 - NPE in CodeStream.invoke()
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*       Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/FieldDeclaration.java
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* Stephan Herrmann - contributions for
* bug 336428 - [compiler][null] bogus warning "redundant null check" in condition of do {} while() loop
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 365519 - editorial cleanup after bug 186342 and bug 365387
* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
* bug 365859 - [compiler][null]
distinguish warnings based on flow analysis vs. null annotations
* bug 385626 - @NonNull fails across loop boundaries
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 376263 - Bogus "Potential null pointer access" warning
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
* bug 406384 - Internal error with I20130413
* Bug 415413 - [compiler][null] NullpointerException in Null Analysis caused by interaction of LoopingFlowContext and FinallyFlowContext
* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
* Bug 455557 - [jdt] NPE LoopingFlowContext.recordNullReference
* Bug 455723 - Nonnull argument not correctly inferred in loop
* Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
* Bug 421035 - [resource]
False alarm of resource leak warning when casting a closeable in its assignment
* Jesper S Moller - contributions for
* bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
**********/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/LoopingFlowContext.java
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```
*     Stephan Herrmann - Contribution for
*       Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
*       Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability
analysis
*       Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
*     Till Brychcy - Contribution for
*       Bug 473713
 - [1.8][null] Type mismatch: cannot convert from @NonNull A1 to @NonNull A1
*******************************************************************************/
/* Cache the derived type, tagging it as a derivative of both the key type and the naked type.
    E.g: int @NonNull [] would be tagged as a derived type of both int and int []. This is not
    needed for correctness, but for annotated object reuse. We provide two alternate ways to
    annotate a type:

    Taking parameterized types as an example, a call to getParamaterizedType can be made with annotations
    to create @NonNull List<@NonNull String> in one stroke. Or a parameterized type can be created first
    and then annotated via getAnnotatedType. In the former case, the tables get looked up with List as
    the key, in the latter with List<String> as the key.

    Binary vs source, substitutions, annotation re-attribution from SE7 locations etc trigger these
    alternate code paths. Unless care is exercised,
 we will end up with duplicate objects (that share
    the same TypeBinding.id => correctness is not an issue, but memory wastage is)
  */
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/TypeSystem.java
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* Contributors:
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*     Stephan Herrmann - Contribution for
*       bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*       bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests
```

can cope with null annotations enabled
*	Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*	Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
*	Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*	Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
*	Bug 434600 - Incorrect null analysis error reporting on type parameters
*	Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
*	Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*	Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*	Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*	Bug 437072 - [compiler][null] Null analysis
emits possibly incorrect warning for new int[][] despite @NonNullByDefault
*	Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*	Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*		Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
*		Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code generator
*		Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code generator
*	Jesper S Møller <jesper@selskabet.org> - Contributions for
*		bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*		bug 529556 - [18.3] Add content assist support for 'var' as a type
*
**********/

Found
in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/TypeReference.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/lookup/ParameterNonNullDefaultProvider.java
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* Contributors:
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*     Jesper S Moller - Contributions for
*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*       Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
*       Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
*       Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com
 - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*                       Bug 439889 - [1.8][compiler] [lambda] Deserializing lambda fails with IllegalArgumentException:
"Invalid lambda deserialization"
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/ConstantPool.java
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*     Stephan Herrmann - Contributions for
*        bug 186342 - [compiler][null] Using annotations for null checking
*       bug 387612 - Unreachable catch block...exception is never thrown from the try
*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       bug 401456 - Code compiles from javac/intellij, but fails from eclipse
*       bug 401271 - StackOverflowError
 when searching for a methods references
*       bug 405706 - Eclipse compiler fails to give compiler error when return type is a inferred generic
*       Bug 408441 - Type mismatch using Arrays.asList with 3 or more implementations of an interface with the
interface type as the last parameter
*       Bug 413958 - Function override returning inherited Generic Type
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations
```

* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
* Bug 424415 - [1.8][compiler]
Eventual resolution of ReferenceExpression is not seen to be happening.
* Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
* Bug 426589 - [1.8][compiler] Compiler error with generic method/constructor invocation as vargs argument
* Bug 426590 - [1.8][compiler] Compiler error with tenary operator
* Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
* Bug 426998 - [1.8][compiler] method(java.lang.Class, java.lang.String) not applicable for the arguments (java.lang.Class, java.lang.String)
* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
* Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method
* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
* Bug
427728 - [1.8] Type Inference rejects calls requiring boxing/unboxing
* Bug 427218 - [1.8][compiler] Verify error varargs + inference
* Bug 426836 - [1.8] special handling for return type in references to method getClass()?
* Bug 427628 - [1.8] regression : The method * is ambiguous for the type *
* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
* Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type Bindings
* Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location
* Bug 428811 - [1.8][compiler] Type witness unnecessarily required
* Bug 429424 - [1.8][inference] Problem inferring type of method's parameter
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner
class
* Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
* Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
* Bug 452194 - Code no longer compiles in 4.4.1, but with confusing error
* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
* Bug 456236 - [1.8][null] Cannot infer type when constructor argument is annotated with @Nullable
* Bug 437072 - [compiler][null] Null analysis emits possibly incorrect warning for new int[][] despite @NonNullByDefault
* Bug 462083 - [1.8][inference] Java 8 generic return type mismatch with interface involving type parameter.
* Jesper S Moller - Contributions for
* Bug 378674 - "The method can be declared as static" is wrong
* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
* Andy Clement (GoPivotal, Inc)
aclement@gopivotal.com - Contributions for
* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
* Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for
* Bug 559618 - No compiler warning for import from same package
* Bug 560630 - No warning on unused import on class from same package

**********/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/Scope.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredLocalVariable.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/GenericXMLWriter.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/ManifestAnalyzer.java
*

/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/UnresolvedAnnotationBinding.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/ReferenceContext.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/DefaultErrorHandlingPolicies.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/DefaultProblemFactory.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Receiver.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/InsideSubRoutineFlowContext.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/JDTCompilerAdapter.java
*
/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/CompilerStats.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/IErrorHandlingPolicy.java
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* Contributors:
* IBM Corporation - initial API and implementation
* Stephan Herrmann - Contributions for
* bug 325755 - [compiler] wrong initialization state after conditional expression
* bug 320170 - [compiler] [null] Whitebox issues in null analysis
* bug 292478 - Report potentially null across variable assignment
* bug 332637 - Dead Code detection removing code that isn't dead
* bug 341499 - [compiler][null] allocate extra bits in all methods of UnconditionalFlowInfo
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 386181 - [compiler][null] wrong transition in UnconditionalFlowInfo.mergedWith()
* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
* Bug 454031 - [compiler][null][loop] bug in null analysis; wrong "dead code" detection
* Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
***/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/UnconditionalFlowInfo.java
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* Stephan Herrmann - Contribution for
* bug 383368 - [compiler][null] syntactic null analysis for field references
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 417295 - [1.8[[null]
 Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
* Andy Clement - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
***/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/InstanceOfExpression.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IGenericMethod.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryNestedType.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IGenericType.java
*
 /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ISourceField.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IGenericField.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ISourceMethod.java
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```
*     Stephan Herrmann - Contributions for
*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 374605 - Unreasonable warning for enum-based switch statements
*       bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
*       bug 382354 - [1.8][compiler] Compiler silent on conflicting modifier
*       bug 401030 - [1.8][null] Null analysis support for lambda methods.
*       Bug
 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*     Jesper S Moller - Contributions for
*      bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MethodScope.java
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*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
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* Stephan Herrmann - Contribution for
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
**********/

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 in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ArrayReference.java
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* Contributors:
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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
* bug 328281 - visibility leaks not detected when analyzing unused field in private class
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 365836 - [compiler][null] Incomplete propagation of null defaults.
* bug 365519 - editorial cleanup after bug 186342
 and bug 365387
* bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
* bug 366063 - Compiler should not add synthetic @NonNull annotations
* bug 384663 - Package Based Annotation Compilation Error in JDT 3.8/4.2 (works in 3.7.2)
* bug 386356 - Type mismatch error with annotations and generics
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* bug 331649 - [compiler][null] consider null annotations for fields
* bug 380896 - [compiler][null] Enum constants not recognised as being NonNull.
* bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

```
 *       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 416172 - [1.8][compiler][null] null type annotation not evaluated on method return type
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 426048 - [1.8] NPE in TypeVariableBinding.internalBoundCheck when parentheses are not balanced
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 432348 - [1.8] Internal compiler error (NPE) after upgrade to 1.8
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*       Bug 441693 - [1.8][null]
 Bogus warning for type argument annotated with @NonNull
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
*       Bug 461250 - ArrayIndexOutOfBoundsException in SourceTypeBinding.fields
*       Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*     Jesper S Moller <jesper@selskabet.org> -  Contributions for
*       Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*     Till Brychcy - Contributions for
*          bug 415269 - NonNullByDefault is not always inherited to nested classes
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                    Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*     Sebastian Zarnekow - Contributions
 for
*       bug 544921 - [performance] Poor performance with large source files
*******************************************************************************/
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SourceTypeBinding.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/Messages.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredInitializer.java
*
 /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MemberTypeBinding.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/ProblemSeverities.java

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SuffixConstants.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SourceTypeCollisionException.java
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*       Bug 378674 - "The method can be declared as static" is wrong
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*     Tom Tromey - patch for readTable(String) as described in http://bugs.eclipse.org/bugs/show_bug.cgi?id=32196
*     Stephan Herrmann - Contributions for
*       bug 366003 - CCE in ASTNode.resolveAnnotations(ASTNode.java:639)
*       bug 374605 - Unreasonable warning for enum-based switch statements
*       bug 393719 - [compiler] inconsistent warnings on iteration variables
*       bug 382353 - [1.8][compiler] Implementation property modifiers
 should be accepted on default methods.
*       bug 383973 - [1.8][compiler] syntax recovery in the presence of default methods
*       bug 401035 - [1.8] A few tests have started failing recently
```

```
*     Jesper S Moller - Contributions for
*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*       bug 399695 - [1.8][compiler] [1.8][compiler] migrate parser to other syntax for default methods
*       bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration
*       bug 393192 - Incomplete type hierarchy with > 10 annotations
*       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*        Andy Clement - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                       Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*
            Bug 415821 - [1.8][compiler] CLASS_EXTENDS target type annotation missing for anonymous classes
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/Parser.java
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*     Stephan Herrmann - Contribution for
*       Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*       Bug 440687 - [compiler][batch][null] improve command line option for external annotations
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathJar.java
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*       Bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
```

* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it extends the outer class
**********/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/ByteConstant.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/AccessRuleSet.java
*
 /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/DoubleConstant.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/FloatConstant.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/CharConstant.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/StringConstant.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/BooleanConstant.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/LongConstant.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObject.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocArgumentExpression.java

*
 /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/ShortConstant.java
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* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocSingleTypeReference.java
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* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
* Bug 409517 - [1.8][compiler] Type annotation problems on more elaborate array references
*
  Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
**********/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ProvidesStatement.java

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/INameEnvironmentExtension.java
*
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*     Jesper S Moller - Bug 392671
*         NPE with a method with explicit this and a following incomplete parameter
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ImportBinding.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ASTVisitor.java
*
 /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/JavadocTagConstants.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MissingTypeBinding.java

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/JavadocParser.java
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*       bug 366003 - CCE in ASTNode.resolveAnnotations(ASTNode.java:639)
*       bug 383973 - [1.8][compiler] syntax recovery in the presence of default methods
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*        Bug 186342 - [compiler][null] Using annotations for null checking
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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*       bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code
*       bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
*       bug 421543 - [1.8][compiler] Compiler fails to recognize default method being turned into abstract by subtytpe
*     Jesper S Moller - Contributions for
*      Bug 405066 - [1.8][compiler][codegen] Implement
 code generation infrastructure for JSR335
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                    Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
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*                    Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
generator
*                    Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*                    Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*                    Bug 449467 - [1.8][compiler] Invalid lambda deserialization with anonymous class
*       Olivier Tardieu (tardieu@us.ibm.com) - Contributions for
*                    Bug 442418 - $deserializeLambda$ off-by-one error when deserializing the captured arguments
 of a lambda that also capture this
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*    IBM Corporation - fix for 342936
*    Kenneth Olson - Contribution for bug 188796 - [jsr199] Using JSR199 to extend ECJ
*    Dennis Hendriks - Contribution for bug 188796 - [jsr199] Using JSR199 to extend ECJ
*    Frits Jalvingh  - fix for bug 533830.
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/EclipseCompilerImpl.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathJmod.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfInteger.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/Options.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/ArchiveFileObject.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/Util.java
*
 /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/Util.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/ArchiveFileObject.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/Archive.java

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* Contributors:
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*     Stephan Herrmann - Contribution for
*        bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
*        bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*        bug 404728 - [1.8]NPE on QualifiedSuperReference error
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedSuperReference.java
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*     Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
*     Jesper S Moller  -. Contribution for bug 400830: [1.8][formatter] Code formatter for Java 8
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/Scanner.java
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* Stephan Herrmann - Contribution for bug 349326 - [1.7] new warning for missing try-with-resources
**********/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemReferenceBinding.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ExternalAnnotationSuperimposer.java
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*     Patrick Wienands <pwienands@abit.de> - Contribution for bug 393749
*     Stephan Herrmann - Contribution for
*       bug 331649 - [compiler][null] consider null annotations for fields
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Clinit.java
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*     Benjamin Muskalla - Contribution for bug 239066
*     Stephan Herrmann - Contribution for
*           bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance
*       bug 388954 - [1.8][compiler] detect default methods in class files
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs
 to be declared abstract
*       bug 390883 - [1.8][compiler] Unable to override default method
*       bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
*       bug 395681 - [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795
*       bug 406928 - computation of inherited methods seems damaged (affecting @Overrides)
*       bug 409473 - [compiler] JDT cannot compile against JRE 1.8
*       Bug 420080 - [1.8] Overridden Default method is reported as duplicated
*******************************************************************************/
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MethodVerifier.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/MarkerAnnotation.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/UnlikelyArgumentCheck.java
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*     Stephan Herrmann - Contributions for
*       bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
 checking
*******************************************************************************/
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/AssertStatement.java
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*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*       Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*******************************************************************************/
```

Found in path(s):

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ArrayTypeReference.java
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*     Tom Tromey - Contribution for bug 159641
*     Benjamin Muskalla - Contribution for bug 239066
*     Stephan Herrmann  - Contributions for
*          bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
*          bug 295551 - Add option to automatically promote all warnings to errors
*          bug 359721 - [options] add command line option
 for new warning token "resource"
*       bug 365208 - [compiler][batch] command line options for annotation based null analysis
*       bug 374605 - Unreasonable warning for enum-based switch statements
*       bug 375366 - ECJ ignores unusedParameterIncludeDocCommentReference unless enableJavadoc option is set
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
*       Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*       Bug 440687 - [compiler][batch][null] improve command line option for external annotations
*       Bug 408815 - [batch][null] Add CLI option for
COMPILER_PB_SYNTACTIC_NULL_ANALYSIS_FOR_FIELDS
*     Jesper S Moller   - Contributions for
*       bug 407297 - [1.8][compiler] Control generation of parameter names by option
*    Mat Booth - Contribution for bug 405176
*    Frits Jalvingh -
 fix for bug 533830.
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/Main.java
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* bug 342671 - ClassCastException: org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to org.eclipse.jdt.internal.compiler.lookup.ArrayBinding
* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 416181 - [1.8][compiler][null] Invalid assignment
 is not rejected by the compiler
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 434600 - Incorrect null analysis error reporting on type parameters
* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
* Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
* Andy Clement - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
**********/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ParameterizedQualifiedTypeReference.java
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* Contributors:
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 407191 - [1.8] Binary access support for type annotations
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*     Jesper Steen Moeller - Contributions for:
*         Bug 407297: [1.8][compiler] Control generation of parameter names by option
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*                       Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped
*       Stephan Herrmann - Contribution for
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 429958
 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 440462 - [null][compiler]NPE in EJC for erroneous null annotations
*       Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*******************************************************************************/
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Wildcard.java
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*       bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
*       bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with
 generics (RuntimeException instead of IOException)
*******************************************************************************/
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/DefaultProblem.java

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/LabeledStatement.java
*
 /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/CompilationUnit.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/ITypeRequestor.java
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*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/UnaryExpression.java
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*     Stephan Herrmann - Contributions for
*       bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
```

* bug 358903 - Filter practically unimportant resource leak warnings
* bug
370639 - [compiler][resource] restore the default for resource leak warnings
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
* bug 379784 - [compiler] "Method can be static" is not getting reported
* bug 379834 - Wrong "method can be static" in presence of qualified super and different staticness of nested super class.
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
* bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
* bug 331649 - [compiler][null] consider null annotations for fields
* bug 383368 - [compiler][null] syntactic null
analysis for field references
* bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
* bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly
* Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
* Bug 417295 - [1.8[[null] Massage type annotated null analysis
to gel well with deep encoded type bindings.
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
* Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
* Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
* Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
* Bug 427438 - [1.8][compiler]
NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
* Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
* Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
* Bug 472618 - [compiler][null] assertNotNull vs. Assert.assertNotNull

*	Bug 470958 - [1.8] Unable to convert lambda
*	Bug 410218 - Optional warning
 for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
*	Jesper S Moller - Contributions for
*	Bug 378674 - "The method can be declared as static" is wrong
*	Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*	Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
*	Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method
**********/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/MessageSend.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredAnnotation.java
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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
* bug 292478 - Report potentially null across variable assignment,
* bug 185682 - Increment/decrement operators mark local variables as read
* bug 331649 - [compiler][null] consider null annotations for fields
* bug 383368 - [compiler][null] syntactic null analysis for field references
* Bug 412203 - [compiler] Internal compiler error: java.lang.IllegalArgumentException: info cannot be null
* Bug 458396 - NPE in CodeStream.invoke()
* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
* Jesper S Moller - <jesper@selskabet.org> - Contributions for
* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
* bug 378674 - "The method can be declared as static" is wrong
* bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
**********/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/ast/SingleNameReference.java
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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*           bug 282152 - [1.5][compiler] Generics code rejected by Eclipse but accepted by javac
*           bug 349326 - [1.7] new warning for missing try-with-resources
*           bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
*       bug 358903 - Filter practically unimportant resource leak warnings
*       bug 395002 - Self bound generic class
 doesn't resolve bounds properly for wildcards for certain parametrisation.
*       bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 426792 - [1.8][inference][impl] generify new type inference engine
*       Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*       Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
*       Bug 431269 - [1.8][compiler][null] StackOverflow in nullAnnotatedReadableName
*       Bug 431408 - Java 8 (1.8) generics bug
*       Bug 435962 - [RC2] StackOverFlowError when building
*       Bug
 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 438250 - [1.8][null] NPE trying to report bogus null annotation conflict
*       Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.
*       Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables
*       Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*       Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*       Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability
analysis
*       Bug 456459 - Discrepancy between Eclipse compiler and javac - Enums, interfaces, and generics
*       Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
*       Bug 462790 - [null] NPE in Expression.computeConversion()
 *       Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error
messages
*     Jesper S Møller <jesper@selskabet.org>  - Contributions for bug 381345 : [1.8] Take care of the Java 8 major
version
```

*	Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
**********/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/TypeVariableBinding.java
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*		bug 349326 - [1.7] new warning for missing try-with-resources
*		bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*		Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*		Bug 467032 - TYPE_USE Null Annotations: IllegalStateException with annotated arrays of Enum when accessed via BinaryTypeBinding
**********/

Found

in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/UnresolvedReferenceBinding.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/VariableElementImpl.java
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*                    Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
*       Stephan Herrmann - Contribution for
*      Bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
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path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/AnnotationTargetTypeConstants.java

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*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 433478 - [compiler][null] NPE in ReferenceBinding.isCompatibleWith
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemMethodBinding.java
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*     Benjamin Muskalla - Contribution for bug 239066
*     Stephan Herrmann  - Contributions for
*           bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
*           bug 338303 - Warning about Redundant assignment conflicts with definite assignment
*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
 *       bug 365519 - editorial cleanup after bug 186342 and bug 365387
*       bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*       bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*       bug 374605 - Unreasonable warning for enum-based switch statements
*       bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
*       bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       bug 376053 - [compiler][resource] Strange potential resource leak problems
*       bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
*       bug 393719 - [compiler] inconsistent warnings on iteration
 variables
*       bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*       bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs to be declared
abstract
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 382789 - [compiler][null] warn when syntactically-nonnull expression is compared against null
*       bug 376590 - Private fields with @Inject are ignored by unused field validation
*       bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*       bug 402028 - [1.8][compiler] null analysis for reference expressions
*       bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
*       bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*       bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*       Bug
 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first
field
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to
Files::walk
```

```
*       Bug 428294 - [1.8][compiler] Type mismatch: cannot convert
 from List<Object> to Collection<Object[]>
*       Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type
Bindings
*       Bug 416190 - [1.8][null] detect incompatible overrides due to null type annotations
*       Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE_USE locations
*       Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
*       Bug 430150 - [1.8][null] stricter checking against type variables
*       Bug 434600 - Incorrect null analysis error reporting on type parameters
*       Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
*       Bug 438467 - [compiler][null] Better error position for "The method _ cannot implement the corresponding
method _ due to incompatible nullness constraints"
*       Bug 439298 - [null] "Missing code implementation in the compiler" when using @NonNullByDefault
 in package-info.java
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 446442 - [1.8] merge null annotations from super methods
*       Bug 455723 - Nonnull argument not correctly inferred in loop
*       Bug 458361 - [1.8][null] reconciler throws NPE in ProblemReporter.illegalReturnRedefinition()
*       Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
*       Bug 461878 - [1.7][1.8][compiler][null] ECJ compiler does not allow to use null annotations on annotations
*       Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*     Jesper S Moller <jesper@selskabet.org> -  Contributions for
*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*       bug 382721 - [1.8][compiler] Effectively final variables needs
 special treatment
*       bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration
*       bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*       bug 412151 - [1.8][compiler] Check repeating annotation's collection type
*       bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
*       Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
*       Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
*       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*     Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
*                       bug 386692 - Missing "unused" warning on "autowired" fields
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*       bug 384380 - False positive on a "Potential null pointer access" after a continue
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/BinaryModuleBinding.java
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*     IBM Corporation - initial API and implementation
*     Stephan Herrmann - Contributions for
*       bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop
 with close in try/catch
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*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
```

```
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
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Found
 in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/TagBits.java
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*     Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*       Bug 407191 - [1.8] Binary access support for type annotations
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryMethod.java
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* Contributors:
*     IBM Corporation - initial API and implementation
*     IBM Corporation - added the following constants
*         NonStaticAccessToStaticField
*         NonStaticAccessToStaticMethod
*         Task
*         ExpressionShouldBeAVariable
```

```
*       AssignmentHasNoEffect
*    IBM Corporation - added the following constants
*       TooManySyntheticArgumentSlots
*       TooManyArrayDimensions
*       TooManyBytesForStringConstant
*       TooManyMethods
*       TooManyFields
 *       NonBlankFinalLocalAssignment
*       ObjectCannotHaveSuperTypes
*       MissingSemiColon
*       InvalidParenthesizedExpression
*       EnclosingInstanceInConstructorCall
*       BytecodeExceeds64KLimitForConstructor
*       IncompatibleReturnTypeForNonInheritedInterfaceMethod
*       UnusedPrivateMethod
*       UnusedPrivateConstructor
*       UnusedPrivateType
*       UnusedPrivateField
*       IncompatibleExceptionInThrowsClauseForNonInheritedInterfaceMethod
*       InvalidExplicitConstructorCall
*    IBM Corporation - added the following constants
*       PossibleAccidentalBooleanAssignment
*       SuperfluousSemicolon
*       IndirectAccessToStaticField
*       IndirectAccessToStaticMethod
*       IndirectAccessToStaticType
*       BooleanMethodThrowingException
*       UnnecessaryCast
*       UnnecessaryArgumentCast
*       UnnecessaryInstanceof
*
  FinallyMustCompleteNormally
*       UnusedMethodDeclaredThrownException
*       UnusedConstructorDeclaredThrownException
*       InvalidCatchBlockSequence
*       UnqualifiedFieldAccess
*    IBM Corporation - added the following constants
*       Javadoc
*       JavadocUnexpectedTag
*       JavadocMissingParamTag
*       JavadocMissingParamName
*       JavadocDuplicateParamName
*       JavadocInvalidParamName
*       JavadocMissingReturnTag
*       JavadocDuplicateReturnTag
*       JavadocMissingThrowsTag
*       JavadocMissingThrowsClassName
*       JavadocInvalidThrowsClass
```

```
*       JavadocDuplicateThrowsClassName
*       JavadocInvalidThrowsClassName
*       JavadocMissingSeeReference
*       JavadocInvalidSeeReference
*       JavadocInvalidSeeHref
*       JavadocInvalidSeeArgs
*       JavadocMissing
*       JavadocInvalidTag
*       JavadocMessagePrefix
*       EmptyControlFlowStatement
*   IBM Corporation - added the following constants
*       IllegalUsageOfQualifiedTypeReference
*       InvalidDigit
*   IBM Corporation - added the following constants
*       ParameterAssignment
*       FallthroughCase
*   IBM Corporation - added the following constants
*                       UnusedLabel
*                       UnnecessaryNLSTag
*                       LocalVariableMayBeNull
*                       EnumConstantsCannotBeSurroundedByParenthesis
*                       JavadocMissingIdentifier
*                       JavadocNonStaticTypeFromStaticInvocation
*                       RawTypeReference
*                       NoAdditionalBoundAfterTypeVariable
*                       UnsafeGenericArrayForVarargs
*                       IllegalAccessFromTypeVariable
*
  AnnotationValueMustBeArrayInitializer
*                       InvalidEncoding
*                       CannotReadSource
*                       EnumStaticFieldInInInitializerContext
*                       ExternalProblemNotFixable
*                       ExternalProblemFixable
*   IBM Corporation - added the following constants
*                       AnnotationValueMustBeAnEnumConstant
*                       OverridingMethodWithoutSuperInvocation
*                       MethodMustOverrideOrImplement
*                       TypeHidingTypeParameterFromType
*                       TypeHidingTypeParameterFromMethod
*                       TypeHidingType
*   IBM Corporation - added the following constants
*       NullLocalVariableReference
*       PotentialNullLocalVariableReference
*       RedundantNullCheckOnNullLocalVariable
*       NullLocalVariableComparisonYieldsFalse
*       RedundantLocalVariableNullAssignment
*       NullLocalVariableInstanceofYieldsFalse
```

```
*          RedundantNullCheckOnNonNullLocalVariable
*          NonNullLocalVariableComparisonYieldsFalse
*    IBM Corporation - added the following constants
*                         InvalidUsageOfTypeParametersForAnnotationDeclaration
*                         InvalidUsageOfTypeParametersForEnumDeclaration
*    IBM Corporation - added the following constants
*         RedundantSuperinterface
*  Benjamin Muskalla - added the following constants
*       MissingSynchronizedModifierInInheritedMethod
*  Stephan Herrmann  - added the following constants
*       UnusedObjectAllocation
*       PotentiallyUnclosedCloseable
*       PotentiallyUnclosedCloseableAtExit
*       UnclosedCloseable
*       UnclosedCloseableAtExit
*       ExplicitlyClosedAutoCloseable
*          RequiredNonNullButProvidedNull
 *         RequiredNonNullButProvidedPotentialNull
*         RequiredNonNullButProvidedUnknown
*         NullAnnotationNameMustBeQualified
*         IllegalReturnNullityRedefinition
*         IllegalRedefinitionToNonNullParameter
*         IllegalDefinitionToNonNullParameter
*         ParameterLackingNonNullAnnotation
*         ParameterLackingNullableAnnotation
*         PotentialNullMessageSendReference
*         RedundantNullCheckOnNonNullMessageSend
*         CannotImplementIncompatibleNullness
*         RedundantNullAnnotation
*       RedundantNullDefaultAnnotation
*       RedundantNullDefaultAnnotationPackage
*       RedundantNullDefaultAnnotationType
*       RedundantNullDefaultAnnotationMethod
*       ContradictoryNullAnnotations
*       IllegalAnnotationForBaseType
*       RedundantNullCheckOnSpecdNonNullLocalVariable
*       SpecdNonNullLocalVariableComparisonYieldsFalse
*       RequiredNonNullButProvidedSpecdNullable
*       MissingDefaultCase
 *       MissingEnumConstantCaseDespiteDefault
*       UninitializedLocalVariableHintMissingDefault
*       UninitializedBlankFinalFieldHintMissingDefault
*       ShouldReturnValueHintMissingDefault
*       IllegalModifierForInterfaceDefaultMethod
*       InheritedDefaultMethodConflictsWithOtherInherited
*       ConflictingNullAnnotations
*       ConflictingInheritedNullAnnotations
*       UnsafeElementTypeConversion
```

* ArrayReferencePotentialNullReference
* DereferencingNullableExpression
* NullityMismatchingTypeAnnotation
* NullityMismatchingTypeAnnotationSuperHint
* NullityUncheckedTypeAnnotationDetail
* NullityUncheckedTypeAnnotationDetailSuperHint
* NullableFieldReference
* UninitializedNonNullField
* UninitializedNonNullFieldHintMissingDefault
* NonNullMessageSendComparisonYieldsFalse
* RedundantNullCheckOnNonNullSpecdField
* NonNullSpecdFieldComparisonYieldsFalse
* NonNullExpressionComparisonYieldsFalse
* RedundantNullCheckOnNonNullExpression
* ReferenceExpressionParameterNullityMismatch
* ReferenceExpressionParameterNullityUnchecked
* ReferenceExpressionReturnNullRedef
* ReferenceExpressionReturnNullRedefUnchecked
* DuplicateInheritedDefaultMethods
* SuperAccessCannotBypassDirectSuper
* SuperCallCannotBypassOverride
* ConflictingNullAnnotations
* ConflictingInheritedNullAnnotations
* UnsafeElementTypeConversion
* PotentialNullUnboxing
* NullUnboxing
* NullExpressionReference
* PotentialNullExpressionReference
* RedundantNullCheckAgainstNonNullType
* NullAnnotationUnsupportedLocation
* NullAnnotationUnsupportedLocationAtType
* NullityMismatchTypeArgument
* ContradictoryNullAnnotationsOnBound
* UnsafeNullnessCast
* ContradictoryNullAnnotationsInferred
* NonNullDefaultDetailIsNotEvaluated
* NullNotCompatibleToFreeTypeVariable
* NullityMismatchAgainstFreeTypeVariable
* ImplicitObjectBoundNoNullDefault
* IllegalParameterNullityRedefinition
* ContradictoryNullAnnotationsInferredFunctionType
* IllegalReturnNullityRedefinitionFreeTypeVariable
* UnlikelyCollectionMethodArgumentType
* UnlikelyEqualsArgumentType
* Jesper S Moller - added the following constants
* TargetTypeNotAFunctionalInterface
* OuterLocalMustBeEffectively Final
* IllegalModifiersForPackage

```
*        DuplicateAnnotationNotMarkedRepeatable
*        DisallowedTargetForContainerAnnotation
*        RepeatedAnnotationWithContainerAnnotation
*        ContainingAnnotationMustHaveValue
*        ContainingAnnotationHasNonDefaultMembers
*        ContainingAnnotationHasWrongValueType
*         ContainingAnnotationHasShorterRetention
 *        RepeatableAnnotationHasTargets
*        RepeatableAnnotationTargetMismatch
*        RepeatableAnnotationIsDocumented
*        RepeatableAnnotationIsInherited
*        RepeatableAnnotationWithRepeatingContainerAnnotation
*        VarLocalMultipleDeclarators
*        VarLocalCannotBeArray
*        VarLocalReferencesItself
*        VarLocalWithoutInitizalier
*        VarLocalInitializedToNull
*        VarLocalCannotBeArrayInitalizers
*        VarLocalCannotBeLambda
*        VarLocalCannotBeMethodReference
*        VarIsReserved
*        VarIsReservedInFuture
*        VarIsNotAllowedHere
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/IProblem.java
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* Contributors:
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*     Stephan Herrmann - Contribution for
*        Bug 365992 - [builder] [null] Change of nullness for a parameter doesn't trigger a build for the files that call the method
*        Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*        Bug 440687 - [compiler][batch][null] improve command line option for external annotations
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
```

```
*
            bug 407191 - [1.8] Binary access support for type annotations
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFileReader.java
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* Contributors:
*     Stephan Herrmann - initial API and implementation
*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*         Bug 473178
*     IBM Corporation - Bug fixes
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/BoundSet.java
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* Contributors:
*     IBM Corporation - initial API and implementation
*    Jesper Steen Moller - Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
*******************************************************************************/
```

Found in path(s):

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/ExecutableElementImpl.java
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* Contributors:
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*     Stephan Herrmann - Contribution for
*        bug 331649 - [compiler][null] consider null annotations for fields
*        Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*        Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
*     Jesper S Moller - Contributions for
*       bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
 *******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/NameReference.java
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* Contributors:
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*     Stephan Herrmann - Contributions for
*        bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*        Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*        Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                        Bug 415543 - [1.8][compiler] Incorrect bound index in RuntimeInvisibleTypeAnnotations attribute
*******************************************************************************/
```

Found
in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/TypeParameter.java
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* Stephan Herrmann - Contribution for
* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug
415291 - [1.8][null] differentiate type incompatibilities due to null annotations
* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 425460 - [1.8] [inference] Type not inferred on stream.toArray
* Bug 426792 - [1.8][inference][impl] generify new type inference engine
* Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
* Bug 441693 -
[1.8][null] Bogus warning for type argument annotated with @NonNull
* Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
***/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ArrayBinding.java
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* Contributors:
* IBM Corporation - initial API and implementation
* Genady Beriozkin - added support for reporting assignment with no effect
* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 292478 - Report potentially null across variable assignment
* bug 335093 - [compiler][null] minimal hook for future null annotation support
* bug 349326 - [1.7] new warning for missing
try-with-resources
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 358903 - Filter practically unimportant resource leak warnings
* bug 370639 - [compiler][resource] restore the default for resource leak warnings
* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
* bug 331649 - [compiler][null] consider null annotations for fields
* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 402993 - [null] Follow up of bug 401088: Missing
warning about redundant null check
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
**********/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/Assignment.java
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* Stephan Herrmann - Contributions for
* bug 342671 - ClassCastException: org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to org.eclipse.jdt.internal.compiler.lookup.ArrayBinding
* Bug 420894 - ClassCastException in DefaultBindingResolver.resolveType(Type)
* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 434600 - Incorrect null analysis error reporting on type parameters
* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
* Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
* Andy Clement - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
***/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ParameterizedSingleTypeReference.java
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*     Stephan Herrmann - Contributions for
*          bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*          bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 403147 - [compiler][null] FUP of bug 400761:
 consolidate interaction between unboxing, NPE, and deferred checking
*******************************************************************************/
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Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/IfStatement.java
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*     Stephan Herrmann - Contribution for
*       Bug 428811 - [1.8][compiler] Type witness unnecessarily required
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```

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/PolyTypeBinding.java
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* Contributors:
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* Stephan Herrmann - Contribution for
* bug 383368 - [compiler][null] syntactic null analysis for field references
**********/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/NullLiteral.java
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* Contributors:
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* Stephan Herrmann - Contribution for
* bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code
* Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
* Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
**********/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticMethodBinding.java
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* IBM Corporation - initial API and implementation
* Stephan Herrmann - Contribution for
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 383368 - [compiler][null] syntactic null analysis for field references
**********/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/BinaryExpression.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/AptSourceLocalVariableBinding.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModule.java
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*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
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* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
**********/

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* bug 186342 - [compiler][null] Using annotations for null checking
* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* bug 413958 - Function override returning inherited Generic Type
* Bug 400874 - [1.8][compiler] Inference infrastructure
 should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
* Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 418743 - [1.8][null] contradictory annotations on invocation of generic method not reported
* Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
* Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
* Bug 446442 - [1.8] merge null annotations from super methods

*	Bug 457079 - Regression: type
 inference
**********/

Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedGenericMethodBinding.java

1.985 libiconv 1.17

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org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.993 github.com/prometheus/common/assets 0.2.0

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1.996 libdw 0.186-1build1

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1.997 lazr-uri 1.0.6-2

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1.999 python-launchpadlib 1.10.16-1

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1.1000 python-secretstorage 3.3.1-1

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1.1001 python-distro 1.7.0-1

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1.1002 jeepney 0.7.1-3

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1.1003 lazr-restfulclient 0.14.4-1

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1.1004 python-importlib-metadata 4.6.4-1

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1.1005 more-itertools 8.10.0-2

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1.1007 snowball-stemmer 2.2.0-1build1

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Source: https://github.com/snowballstem/snowball

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1.1008 polkit 0.105-33

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Mark Adler madler@alumni.caltech.edu
*/

Found in path(s):
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.h
No license file was found, but licenses were detected in source scan.

/* inflate.c -- zlib decompression
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.c
No license file was found, but licenses were detected in source scan.

/* unzip.c -- IO for uncompress .zip files using zlib
  Version 1.1, February 14h, 2010
  part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

  Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

  Modifications of Unzip for Zip64
  Copyright (C) 2007-2008 Even Rouault

  Modifications for Zip64 support on both zip and unzip
  Copyright (C) 2009-2010 Mathias Svensson (http://result42.com)

  For more info read MiniZip_info.txt

Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of
compatibility with older software. The following is from the original crypt.c.
Code woven in by Terry Thorsen 1/2003.

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See the accompanying
file LICENSE, version 2000-Apr-09 or later
(the contents of which are also included in zip.h) for terms of use.
If, for some reason, all these files are missing, the Info-ZIP license
also may be found at: ftp://ftp.info-zip.org/pub/infozip/license.html

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the
non-echoing password parts) were originally written in Europe. The
whole source package can be freely distributed, including from the USA.
(Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from
Roger Schlafly, described by Phil Katz in the file appnote.txt. This
file (appnote.txt) is distributed with the PKZIP program (even in the
version without encryption capabilities).

Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl_unzGetCurrentFileZStreamPos
2007-2008 - Even Rouault - Decoration of symbol names unz* -> cpl_unz*
2007-2008 - Even Rouault - Remove old C style function prototypes
2007-2008 - Even Rouault - Add unzip support for ZIP64

Copyright (C) 2007-2008 Even Rouault

Oct-2009 - Mathias Svensson - Removed cpl_* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).
Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G
should only read the compressed/uncompressed size from the Zip64 format if
the size from normal header was 0xFFFFFFFF
Oct-2009 - Mathias Svensson - Applied some bug fixes from paches recived from Gilles Vollant
Oct-2009 - Mathias Svensson - Applied support to unzip files with compression mathod BZIP2 (bzip2 lib is required)
Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

Copyright (C) 1998 - 2010 Gilles Vollant, Even Rouault, Mathias Svensson

*/

Found in path(s):
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.c
No license file was found, but licenses were detected in source scan.

```
/* zip.h -- IO on .zip files using zlib
   Version 1.1, February 14h, 2010
   part of the MiniZip project - ( http://www.winimage.com/zLibDll/minizip.html )

         Copyright (C) 1998-2010 Gilles Vollant (minizip) ( http://www.winimage.com/zLibDll/minizip.html )

         Modifications for Zip64 support
         Copyright (C) 2009-2010 Mathias Svensson ( http://result42.com )

         For more info read MiniZip_info.txt

         ---------------------------------------------------------------------------

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         ---------------------------------------------------------------------------

         Changes

         See header of zip.h

*/
```

Found in path(s):
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/zip.h

No license file was found, but licenses were detected in source scan.

/* trees.c -- output deflated data using Huffman coding
* Copyright (C) 1995-2017 Jean-loup Gailly
* detect_data_type() function provided freely by Cosmin Truta, 2006
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/trees.c
No license file was found, but licenses were detected in source scan.

/* fitblk.c: example of fitting compressed output to a specified size
  Not copyrighted -- provided to the public domain
  Version 1.1 25 November 2004 Mark Adler */

Found in path(s):
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/fitblk.c
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Found in path(s):
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.3
No license file was found, but licenses were detected in source scan.

/* inftrees.c -- generate Huffman trees for efficient decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.c
No license file was found, but licenses were detected in source scan.

/* gzwrite.c -- zlib functions for writing gzip files
* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzwrite.c
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zlib_how.html
No license file was found, but licenses were detected in source scan.

/* uncompr.c -- decompress a memory buffer
* Copyright (C) 1995-2003, 2010, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/uncompr.c
No license file was found, but licenses were detected in source scan.

/*
 Additional tools for Minizip
 Code: Xavier Roche '2004
 License: Same as ZLIB (www.gzip.org)
*/

Found in path(s):
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.c
No license file was found, but licenses were detected in source scan.

/* zran.c -- example of zlib/gzip stream indexing and random access
* Copyright (C) 2005, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
  Version 1.1 29 Sep 2012 Mark Adler */

Found in path(s):
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zran.c
No license file was found, but licenses were detected in source scan.

/* gzguts.h -- zlib internal header definitions for gz* operations
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzguts.h
No license file was found, but licenses were detected in source scan.

/* gzappend -- command to append to a gzip file

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version 1.2, 11 Oct 2012

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Mark Adler madler@alumni.caltech.edu
*/

Found in path(s):
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzappend.c
No license file was found, but licenses were detected in source scan.

For conditions of distribution and use, see copyright notice in zlib.h

Found in path(s):
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.dj2
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/os2/Makefile.os2
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/Makefile.emx
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.emx
No license file was found, but licenses were detected in source scan.

/* adler32.c -- compute the Adler-32 checksum of a data stream
* Copyright (C) 1995-2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/adler32.c
No license file was found, but licenses were detected in source scan.

/* inflate.h -- internal inflate state definition
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.h
No license file was found, but licenses were detected in source scan.

/* zconf.h -- configuration of the zlib compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.cmakein
No license file was found, but licenses were detected in source scan.

/*
* gzlog.c
* Copyright (C) 2004, 2008, 2012, 2016 Mark Adler, all rights reserved
* For conditions of distribution and use, see copyright notice in gzlog.h
* version 2.2, 14 Aug 2012
*/

Found in path(s):
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.c
No license file was found, but licenses were detected in source scan.

/* infcover.c -- test zlib's inflate routines with full code coverage
* Copyright (C) 2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/infcover.c
No license file was found, but licenses were detected in source scan.

/* gzlib.c -- zlib functions common to reading and writing gzip files

* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzlib.c
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MiniZip - Copyright (c) 1998-2010 - by Gilles Vollant - version 1.1 64 bits from Mathias Svensson

Introduction

MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant (http://www.winimage.com/zLibDll/minizip.html)

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0.
All possible work was done for compatibility.

Background

When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64
support for unzip.c into minizip for a open source project called gdal (http://www.gdal.org/)

That was used as a starting point. And after that ZIP64 support was added to zip.c
some refactoring and code cleanup was also done.

Changed from MiniZip 1.0 to MiniZip 1.1
---
* Added ZIP64 support for unzip (by Even Rouault)
* Added ZIP64 support for zip (by Mathias Svensson
)
* Reverted some changed that Even Rouault did.
* Bunch of patches received from Gulles Vollant that he received for MiniZip from various users.
* Added unzip patch for BZIP Compression method (patch create by Daniel Borca)
* Added BZIP Compress method for zip
* Did some refactoring and code cleanup

Credits

Gilles Vollant - Original MiniZip author
Even Rouault - ZIP64 unzip Support
Daniel Borca - BZip Compression method support in unzip
Mathias Svensson - ZIP64 zip support
Mathias Svensson - BZip Compression method support in zip

Resources

ZipLayout http://result42.com/projects/ZipFileLayout
Command line tool for Windows that shows the layout and information of the headers in a zip archive.
Used when debugging and validating the creation of zip files using MiniZip64

ZIP App Note http://www.pkware.com/documents/casestudies/APPNOTE.TXT
Zip File specification

Notes.
* To be able to use BZip compression method in
zip64.c or unzip64.c the BZIP2 lib is needed and HAVE_BZIP2 need to be defined.

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Found in path(s):
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/MiniZip64_info.txt
No license file was found, but licenses were detected in source scan.

/* zutil.c -- target dependent utility functions for the compression library
* Copyright (C) 1995-2017 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):

* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.c
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```
/* zpipe.c: example of proper use of zlib's inflate() and deflate()
  Not copyrighted -- provided to the public domain
  Version 1.4  11 December 2005  Mark Adler */
```

Found in path(s):
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zpipe.c
No license file was found, but licenses were detected in source scan.

```
/* gzjoin -- command to join gzip files into one gzip file

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 version 1.2, 14 Aug 2012

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 Mark Adler    madler@alumni.caltech.edu
*/
```

Found in path(s):
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzjoin.c
No license file was found, but licenses were detected in source scan.

```
/* zutil.h -- internal interface and configuration of the compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.h
No license file was found, but licenses were detected in source scan.

/* gzread.c -- zlib functions for reading gzip files
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzread.c
No license file was found, but licenses were detected in source scan.

/* gzclose.c -- zlib gzclose() function
* Copyright (C) 2004, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzclose.c
No license file was found, but licenses were detected in source scan.

/* inftrees.h -- header to use inftrees.c
* Copyright (C) 1995-2005, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.h
No license file was found, but licenses were detected in source scan.

/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.11, January 15th, 2017

 Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for
Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950
(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

Found in path(s):
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.h
No license file was found, but licenses were detected in source scan.

/* infback.c -- inflate using a call-back interface
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infback.c
No license file was found, but licenses were detected in source scan.

/* minigzip.c -- simulate gzip using the zlib compression library
* Copyright (C) 1995-2006, 2010, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/minigzip.c
No license file was found, but licenses were detected in source scan.

Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page
http://zlib.net/ which may have more recent information.
The lastest zlib FAQ is at http://zlib.net/zlib_faq.html

1. Is zlib Y2K-compliant?

Yes. zlib doesn't handle dates.

2. Where can I get a Windows DLL version?

The zlib sources can be compiled without change to produce a DLL. See the file win32/DLL_FAQ.txt in the zlib distribution. Pointers to the precompiled DLL are found in the zlib web site at http://zlib.net/ .

3. Where can I get a Visual Basic interface to zlib?

See
* http://marknelson.us/1997/01/01/zlib-engine/
* win32/DLL_FAQ.txt in the zlib distribution

4. compress() returns Z_BUF_ERROR.

Make sure that before the call of compress(), the length of the compressed buffer is equal to the available size of the compressed buffer and not zero. For Visual
Basic, check that this parameter is passed by reference ("as any"), not by value ("as long").

5. deflate() or inflate() returns Z_BUF_ERROR.

Before making the call, make sure that avail_in and avail_out are not zero. When setting the parameter flush equal to Z_FINISH, also make sure that avail_out is big enough to allow processing all pending input. Note that a Z_BUF_ERROR is not fatal--another call to deflate() or inflate() can be made with more input or output space. A Z_BUF_ERROR may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when strm.avail_out returns with zero. See http://zlib.net/zlib_how.html for a heavily annotated example.

6. Where's the zlib documentation (man pages, etc.)?

It's in zlib.h . Examples of zlib usage are in the files test/example.c and test/minigzip.c, with more in examples/ .

7. Why don't you use GNU
autoconf or libtool or ...?

Because we would like to keep zlib as a very small and simple package. zlib is rather portable and doesn't need much configuration.

8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib. Please try to reproduce the problem with a small program and send the corresponding source to us at zlib@gzip.org . Do not send multi-megabyte data files without prior agreement.

9. Why do I get "undefined reference to gzputc"?

If "make test" produces something like

example.o(.text+0x154): undefined reference to `gzputc'

check that you don't have old files libz.* in /usr/lib, /usr/local/lib or /usr/X11R6/lib. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the contrib/delphi directory in the zlib distribution.

11. Can zlib handle .zip archives?

Not by itself, no. See the directory contrib/minizip in the zlib distribution.

12.
Can zlib handle .Z files?

No, sorry. You have to spawn an uncompress or gunzip subprocess, or adapt the code of uncompress on your own.

13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

```
make distclean
./configure
make
```

14. How do I install a shared zlib library on Unix?

After the above, then:

```
make install
```

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can #include <zlib.h>, it's there. The -lz option will probably link to it. You can check the version at the top of zlib.h or with the ZLIB_VERSION symbol defined in zlib.h .

15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, jhainley@myndkryme.com.

16.
Can zlib decode Flate data in an Adobe PDF file?

Yes. See http://www.pdflib.com/ . To modify PDF forms, see http://sourceforge.net/projects/acroformtool/ .

17. Why am I getting this "register_frame_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

```
ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so:
symbol __register_frame_info: referenced symbol not found
```

The symbol __register_frame_info is not part of zlib, it is generated by the C compiler (cc or gcc). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See http://www.sunfreeware.com for Solaris versions of zlib and applications using zlib.

18. Why does gzip give an error on a file I make with compress/deflate?

The compress and deflate functions produce data in the zlib format, which is different and incompatible
with the gzip format. The gz* functions in
zlib on the other hand use the gzip format. Both the zlib and gzip formats use the same compressed data format internally, but have different headers and trailers around the compressed data.

19. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using deflateInit2(). You can also request that inflate decode the gzip format using inflateInit2(). Read zlib.h for more details.

21. Is zlib thread-safe?

Yes. However any library routines
that zlib uses and any application-
provided memory allocation routines must also be thread-safe. zlib's gz*
functions use stdio library routines, and most of zlib's functions use the
library memory allocation routines by default. zlib's *Init* functions
allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a
single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in zlib.h.

23. Is zlib under the GNU license?

No. Please read the license in zlib.h.

24. The license says that altered source versions must be "plainly marked". So
what exactly do I need to do to meet that requirement?

You need to change the ZLIB_VERSION and ZLIB_VERNUM #defines in zlib.h. In
particular, the final version number needs to be changed to "f", and an
identification string should be appended to ZLIB_VERSION. Version numbers
x.x.x.f are reserved for modifications to zlib by others than the zlib
maintainers. For example, if the version of the base zlib you are altering
is "1.2.3.4", then in zlib.h you should change ZLIB_VERNUM to 0x123f, and
ZLIB_VERSION to something like "1.2.3.f-zachary-mods-v3". You can also
update the version strings in deflate.c and inftrees.c.

For altered source distributions, you should also note the origin and
nature of the changes in zlib.h, as well as in ChangeLog and README, along
with the dates of the alterations. The origin should include at least your
name (or your company's name), and an email address to contact for help or
issues with the library.

Note that distributing a compiled zlib library along with zlib.h and
zconf.h is also a source distribution, and so you should change
ZLIB_VERSION and ZLIB_VERNUM and note the origin and nature of the changes
in zlib.h as you would for a full source distribution.

25.
Will zlib work on a big-endian or little-endian architecture, and can I
exchange compressed data between them?

Yes and yes.

26. Will zlib work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any data types being limited to 32-bits in length. If you have any difficulties, please provide a complete problem report to zlib@gzip.org

27. Will zlib decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than does PKZIP and zlib. However, you can look in zlib's contrib/blast directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use Z_FULL_FLUSH, carefully write all the pending data at those points, and keep an index of those locations, then you can start decompression at those points. You have to be careful to not use Z_FULL_FLUSH too often, since it can significantly degrade compression. Alternatively, you can scan a deflate stream once to generate an index, and then use that index for random access. See examples/zran.c .

29. Does zlib work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There were working ports of zlib 1.1.4 to MVS, but those links no longer work. If you know of recent, successful applications of zlib on these operating systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at to understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's contrib/puff directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information:

http://www.gzip.org/#faq11

32. Can zlib work with greater than 4 GB of data?

Yes. inflate() and deflate() will process any amount of data correctly. Each call of inflate() or deflate() is limited to input and output chunks of the maximum value that can be stored in the compiler's "unsigned int"

type, but there is no limit to the number of chunks. Note however that the strm.total_in and strm_total_out counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by inflate() or deflate(). The application can easily set up its own counters updated after each call of inflate() or deflate() to count beyond 4 GB. compress() and uncompress() may be limited to 4 GB, since they operate in a single call. gzseek() and gztell() may be limited to 4 GB depending on how zlib is compiled. See the zlibCompileFlags() function in zlib.h.

The word "may" appears several times above since there is a 4 GB limit only if the compiler's "long" type is
32 bits. If the compiler's "long" type is
64 bits, then the limit is 16 exabytes.

33. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in gzprintf(). If zlib is compiled to use sprintf() or vsprintf(), then there is no protection against a buffer overflow of an 8K string space (or other value as set by gzbuffer()), other than the caller of gzprintf() assuring that the output will not exceed 8K. On the other hand, if zlib is compiled to use snprintf() or vsnprintf(), which should normally be the case, then there is no vulnerability. The ./configure script will display warnings if an insecure variation of sprintf() will be used by gzprintf(). Also the zlibCompileFlags() function will return information on what variant of sprintf() is used by gzprintf().

If you don't have snprintf() or vsnprintf() and would like one, you can find a portable implementation here:

http://www.ijs.si/software/snprintf/

Note that you should be using the most recent version of zlib. Versions 1.1.3 and before were subject to a double-free vulnerability, and versions 1.2.1 and 1.2.2 were subject to an access exception when decompressing invalid compressed data.

34. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the java.util.zip package. If you really want a version of zlib written in the Java language, look on the zlib home page for links: http://zlib.net/ .

35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler

in the universe. It just got to be a waste of time, and some compilers were downright silly as well as contradicted each other. So now, we simply make sure that the code always
works.

36. Valgrind (or some similar memory access checker) says that deflate is performing a conditional jump that depends on an uninitialized value. Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate is not affected. This only started showing up recently since zlib 1.2.x uses malloc() by default for allocations, whereas earlier versions used calloc(), which zeros out the allocated memory. Even though the code was correct, versions 1.2.4 and later was changed to not stimulate these checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the comp.compression FAQ for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption,
use GnuPG, http://www.gnupg.org/ , which already includes zlib compression. For PKZIP compatible "encryption", look at http://www.info-zip.org/

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an
unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by Giles Vollant, which is found in the contrib directory of zlib. It is not part of zlib. In fact none of the stuff in contrib is part of zlib. The files in there are not supported by the zlib authors. You need to contact the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General Public License.
Since it's part of zlib, doesn't that mean that all of zlib falls under the GNU GPL?

No. The files in contrib are not part of zlib. They were contributed by other authors and are provided as a convenience to the user within the zlib distribution. Each item in contrib has its own license.

43. Is zlib subject to export controls? What is its ECCN?

zlib is not subject to export controls, and so is classified as EAR99.

44. Can you please sign these lengthy legal documents and fax them back to us so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ
No license file was found, but licenses were detected in source scan.

/* compress.c -- compress a memory buffer
* Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/compress.c
No license file was found, but licenses were detected in source scan.

/* inffast.h -- header to use inffast.c
* Copyright (C) 1995-2003, 2010 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.h
No license file was found, but licenses were detected in source scan.

/* gun.c -- simple gunzip to give an example of the use of inflateBack()
* Copyright (C) 2003, 2005, 2008, 2010, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
  Version 1.7 12 August 2012 Mark Adler */

Found in path(s):
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gun.c
No license file was found, but licenses were detected in source scan.

/* example.c -- usage example of the zlib compression library
* Copyright (C) 1995-2006, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/example.c
No license file was found, but licenses were detected in source scan.

/* deflate.c -- compress data using the deflation algorithm
* Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.c
No license file was found, but licenses were detected in source scan.

/* crc32.c -- compute the CRC-32 of a data stream
* Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*
* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster
* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing
* tables for updating the shift register in one step with three exclusive-ors
* instead of four steps with four exclusive-ors. This results in about a
* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.
*/

Found in path(s):

* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/crc32.c
No license file was found, but licenses were detected in source scan.

/* deflate.h -- internal compression state
* Copyright (C) 1995-2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.h
No license file was found, but licenses were detected in source scan.

/* unzip.h -- IO for uncompress .zip files using zlib
  Version 1.1, February 14h, 2010
  part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

  Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

  Modifications of Unzip for Zip64
  Copyright (C) 2007-2008 Even Rouault

  Modifications for Zip64 support on both zip and unzip
  Copyright (C) 2009-2010 Mathias Svensson (http://result42.com)

  For more info read MiniZip_info.txt

  Condition of use and distribution are the same than zlib :

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Changes

See header of unzip64.c

*/

Found in path(s):
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.h
No license file was found, but licenses were detected in source scan.

ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is thread safe. The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

All functions of the compression library are documented in the file zlib.h (volunteer to write man pages welcome, contact zlib@gzip.org). A usage example of the library is given in the file test/example.c which also tests that the library is working correctly. Another example is given in the file test/minigzip.c. The compression library itself is composed of all source files in the root directory.

To compile all files and run the test program, follow the instructions given at the top of Makefile.in. In short "./configure; make test", and if that goes well, "make install" should work
for most flavors of Unix. For Windows, use
one of the special makefiles in win32/ or contrib/vstudio/ . For VMS, use make_vms.com.

Questions about zlib should be sent to <zlib@gzip.org>, or to Gilles Vollant <info@winimage.com> for the Windows DLL version. The zlib home page is http://zlib.net/ . Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ http://zlib.net/zlib_faq.html before asking for help.

Mark Nelson <markn@ieee.org> wrote an article about zlib for the Jan. 1997 issue of Dr. Dobb's Journal; a copy of the article is available at http://marknelson.us/1997/01/01/zlib-engine/ .

The changes made in version 1.2.11 are documented in the file ChangeLog.

Unsupported third party contributions are provided in directory contrib/ .

zlib is available in Java using the java.util.zip package, documented at
http://java.sun.com/developer/technicalArticles/Programming/compression/
.

A Perl interface to zlib written by Paul Marquess <pmqs@cpan.org> is available
at CPAN (Comprehensive Perl Archive Network) sites, including
http://search.cpan.org/~pmqs/IO-Compress-Zlib/ .

A Python interface to zlib written by A.M. Kuchling <amk@amk.ca> is
available in Python 1.5 and later versions, see
http://docs.python.org/library/zlib.html .

zlib is built into tcl: http://wiki.tcl.tk/4610 .

An experimental package to read and write files in .zip format, written on top
of zlib by Gilles Vollant <info@winimage.com>, is available in the
contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL_FAQ.txt

- For 64-bit Irix, deflate.c must be compiled without any optimization. With
 -O, one libpng test fails. The test works in 32 bit mode (with the -n32
 compiler flag). The compiler bug has been reported to SGI.

- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under
 OSF/1 2.1 it works
 when compiled with cc.

- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is
 necessary to get gzprintf working correctly. This is done by configure.

- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with
 other compilers. Use "make test" to check your compiler.

- gzdopen is not supported on RISCOS or BEOS.

- For PalmOs, see http://palmzlib.sourceforge.net/

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and
zlib specifications were written by L. Peter Deutsch. Thanks to all the

people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

If you use the zlib library in a product, we would appreciate *not* receiving lengthy legal documents to sign. The sources are provided for free but without warranty of any kind. The library has been entirely written by Jean-loup Gailly and Mark Adler; it does not include third-party code.

If you redistribute modified sources, we would appreciate that you include in the file ChangeLog history information documenting your changes. Please read the FAQ for more information on the distribution of modified source versions.

Found in path(s):
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/README
No license file was found, but licenses were detected in source scan.

/* inffast.c -- fast decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1444731281_1666176765.8222194/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.c

1.1019 oauthlib 3.2.2

1.1019.1 Available under license :

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1.1020 go-git-go-billy 5.3.1

1.1020.1 Available under license :

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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org.ow2.asm:asm

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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org.eclipse.jetty.toolchain:jetty-schemas

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1.1023 jetty-util 9.4.49.v20220914

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org.apache.tomcat:tomcat-util-scan
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1.1025 x-crypto 0.1.0

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1.1026 python3-babel 2.8.0+dfsg.1-7

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1.1031 fluxcd-pkg-apis-acl 0.1.0

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1.1036 docker-credential-helpers 0.7.0

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1.1037 go-errors-errors 1.4.2

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1.1038 drone-envsubst 1.0.3

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1.1039 go-sysinfo 1.8.1

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1.1040 hashstructure 1.1.0

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1.1044 docker-credential-helpers 0.7.0

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1.1045 ssh_config 1.2.0

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1.1046 githubcomgoopenapierrors 0.20.3

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1.1047 cristalhq-jwt 4.0.2

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1.1048 loupe 2.3.6

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1.1049 treeverse 3.0.0

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1.1051 pixman 0.40.0-1ubuntu0.22.04.1

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1.1052 serf 1.3.9-10ubuntu2

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* Markus Kuhn -- 2007-05-26 (Unicode 5.0)

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1.1054 godirwalk 1.17.0

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1.1059 metrics-httpclient 4.1.33

1.1059.1 Available under license :

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1.1060 metrics-health-checks 4.1.33

1.1060.1 Available under license :

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.health
Build-Jdk-Spec: 1.8
Bundle-Description: An addition to Metrics which provides the ability
to run application-specific health checks, allowing you to che
ck your application's heath in production.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Health Checks
Bundle-SymbolicName: io.dropwizard.metrics.healthchecks
Bundle-Version: 4.1.33
Created-By: Apache Maven Bundle Plugin 5.1.8
Export-Package: com.codahale.metrics.health;uses:="com.codahale.metric
s";version="4.1.33",com.codahale.metrics.health.jvm;uses:="com.codaha
le.metrics.health,com.codahale.metrics.jvm";version="4.1.33",com.coda

hale.metrics.health.annotation;version="4.1.33"
Implementation-Title: Metrics Health Checks
Implementation-Version: 4.1.33
Import-Package: org.slf4j;version="[1.6.0,2.0.0)",com.codahale.metrics
 ;version="[4.1,5)",com.codahale.metrics.health,com.codahale.metrics.h
ealth.annotation,com.codahale.metrics.jvm;version="[4.1,5)";resolutio
n:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /opt/cola/permits/1480501796_1668971429.6280649/0/metrics-healthchecks-4-1-33-jar/META-INF/MANIFEST.MF

1.1061 metrics-jvm 4.1.33

1.1061.1 Available under license :

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.jvm
Build-Jdk-Spec: 1.8
Bundle-Description: A set of classes which allow you to monitor critic
al aspects of your Java Virtual Machine using Metrics.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: JVM Integration for Metrics
Bundle-SymbolicName: io.dropwizard.metrics.jvm
Bundle-Version: 4.1.33
Created-By: Apache Maven Bundle Plugin 5.1.8
Export-Package: com.codahale.metrics.jvm;uses:="com.codahale.metrics,j
avax.management";version="4.1.33"
Implementation-Title: JVM Integration for Metrics
Implementation-Version: 4.1.33
Import-Package: org.slf4j;version="[1.6.0,2.0.0)",com.sun.management;r
esolution:=optional,com.codahale.metrics;version="[4.1,5)",javax.mana
gement
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /opt/cola/permits/1480501873_1668971438.6468465/0/metrics-jvm-4-1-33-jar/META-INF/MANIFEST.MF

1.1062 metrics-servlets 4.1.33

1.1062.1 Available under license :

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```
Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.servlets
Build-Jdk-Spec: 1.8
Bundle-Description: A set of utility servlets for Metrics, allowing yo
u to expose valuable information about       your production environ
ment.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Utility Servlets
Bundle-SymbolicName: io.dropwizard.metrics.servlets
Bundle-Version: 4.1.33
Created-By: Apache Maven Bundle Plugin 5.1.8
Export-Package: com.codahale.metrics.servlets;uses:="com.codahale.metr
ics,com.codahale.metrics.health,com.fasterxml.jackson.databind,javax.
servlet,javax.servlet.http";version="4.1.33"
Implementation-Title: Metrics Utility Servlets
Implementation-Version: 4.1.33
Import-Package: javax.servlet;version="[2.5.0,4.0.0)",javax.servlet.ht
tp;version="[2.5.0,4.0.0)",com.codahale.metrics;version="[4.1,5)",com
.codahale.metrics.health;version="[4.1,5)",com.codahale.metrics.json;
 version="[4.1,5)",com.codahale.metrics.jvm;version="[4.1,5)",com.fast
erxml.jackson.databind;version="[2.9,3)",com.fasterxml.jackson.databi
nd.util;version="[2.9,3)",com.papertrail.profiler;version="[1.1,2)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316
```

Found in path(s):
* /opt/cola/permits/1480501845_1668971417.0605376/0/metrics-servlets-4-1-33-jar/META-INF/MANIFEST.MF

1.1063 metrics-jetty 4.1.33

1.1063.1 Available under license :

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```
Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.jetty9
Build-Jdk-Spec: 1.8
Bundle-Description: A set of extensions for Jetty 9.3 and higher which
 provide instrumentation of thread pools, connector       metrics, a
nd application latency and utilization.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Integration for Jetty 9.3 and higher
Bundle-SymbolicName: io.dropwizard.metrics.jetty9
```

Bundle-Version: 4.1.33
Created-By: Apache Maven Bundle Plugin 5.1.8
Export-Package: com.codahale.metrics.jetty9;uses:="com.codahale.metric
s,javax.servlet,javax.servlet.http,org.eclipse.jetty.io,org.eclipse.j
etty.server,org.eclipse.jetty.server.handler,org.eclipse.jetty.util.a
nnotation,org.eclipse.jetty.util.component,org.eclipse.jetty.util.thr
ead";version="4.1.33"
Implementation-Title: Metrics Integration for Jetty 9.3 and higher
Implementation-Version:
 4.1.33
Import-Package: javax.servlet;version="[2.5.0,4.0.0)",javax.servlet.ht
tp;version="[2.5.0,4.0.0)",com.codahale.metrics;version="[4.1,5)",org
.eclipse.jetty.http;version="[9.4,10)",org.eclipse.jetty.io;version="
[9.4,10)",org.eclipse.jetty.server;version="[9.4,10)",org.eclipse.jet
ty.server.handler;version="[9.4,10)",org.eclipse.jetty.util.annotatio
n;version="[9.4,10)",org.eclipse.jetty.util.component;version="[9.4,1
0)",org.eclipse.jetty.util.thread;version="[9.4,10)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /opt/cola/permits/1480501782_1668971450.344051/0/metrics-jetty9-4-1-33-jar/META-INF/MANIFEST.MF

1.1064 metrics-logback 4.1.33

1.1064.1 Available under license :

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.logback
Build-Jdk-Spec: 1.8
Bundle-Description: An instrumented appender for Logback.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Integration for Logback
Bundle-SymbolicName: io.dropwizard.metrics.logback
Bundle-Version: 4.1.33
Created-By: Apache Maven Bundle Plugin 5.1.8
Export-Package: com.codahale.metrics.logback;uses:="ch.qos.logback.cla
ssic.spi,ch.qos.logback.core,com.codahale.metrics";version="4.1.33"
Implementation-Title: Metrics Integration for Logback
Implementation-Version: 4.1.33
Import-Package: ch.qos.logback.classic;version="[1.2,2)",ch.qos.logbac
k.classic.spi;version="[1.2,2)",ch.qos.logback.core;version="[1.2,2)"
,com.codahale.metrics;version="[4.1,5)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
*
/opt/cola/permits/1480501725_1668971427.6429615/0/metrics-logback-4-1-33-jar/META-INF/MANIFEST.MF

1.1065 metrics-jmx 4.1.33

1.1065.1 Available under license :

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.jmx
Build-Jdk-Spec: 1.8
Bundle-Description: A set of classes which allow you to report metrics
via JMX.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Integration with JMX
Bundle-SymbolicName: io.dropwizard.metrics.jmx
Bundle-Version: 4.1.33
Created-By: Apache Maven Bundle Plugin 5.1.8
Export-Package: com.codahale.metrics.jmx;uses:="com.codahale.metrics,j
avax.management";version="4.1.33"
Implementation-Title: Metrics Integration with JMX
Implementation-Version: 4.1.33
Import-Package: org.slf4j;version="[1.6.0,2.0.0)",com.codahale.metrics
;version="[4.1,5)",javax.management
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /opt/cola/permits/1480501768_1668971443.6143289/0/metrics-jmx-4-1-33-jar/META-INF/MANIFEST.MF

1.1066 metrics-annotation 4.1.33

1.1066.1 Available under license :

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.annotation
Build-Jdk-Spec: 1.8
Bundle-Description: A dependency-less package of just the annotations
used by other Metrics modules.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Annotations for Metrics

Bundle-SymbolicName: io.dropwizard.metrics.annotation
Bundle-Version: 4.1.33
Created-By: Apache Maven Bundle Plugin 5.1.8
Export-Package: com.codahale.metrics.annotation;version="4.1.33"
Implementation-Title: Annotations for Metrics
Implementation-Version: 4.1.33
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /opt/cola/permits/1480501824_1668971454.0843751/0/metrics-annotation-4-1-33-jar/META-INF/MANIFEST.MF

1.1067 metrics-json 4.1.33

1.1067.1 Available under license :

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.json
Build-Jdk-Spec: 1.8
Bundle-Description: A set of Jackson modules which provide serializers
 for most Metrics classes.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Jackson Integration for Metrics
Bundle-SymbolicName: io.dropwizard.metrics.json
Bundle-Version: 4.1.33
Created-By: Apache Maven Bundle Plugin 5.1.8
Export-Package: com.codahale.metrics.json;uses:="com.codahale.metrics,
com.fasterxml.jackson.core,com.fasterxml.jackson.databind";version="4
.1.33"
Implementation-Title: Jackson Integration for Metrics
Implementation-Version: 4.1.33
Import-Package: com.codahale.metrics;version="[4.1,5)",com.codahale.me
trics.health;version="[4.1,5)";resolution:=optional,com.fasterxml.jac
kson.core;version="[2.9,3)",com.fasterxml.jackson.databind;version="[
2.9,3)",com.fasterxml.jackson.databind.module;version="[2.9,3)",com.f
 asterxml.jackson.databind.ser;version="[2.9,3)",com.fasterxml.jackson
.databind.ser.std;version="[2.9,3)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /opt/cola/permits/1480501740_1668971447.245473/0/metrics-json-4-1-33-jar/META-INF/MANIFEST.MF

1.1068 metrics-jersey2 4.1.33

1.1068.1 Available under license :

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.jersey2
Build-Jdk-Spec: 1.8
Bundle-Description: A set of class providing Metrics integration for J
ersey, the reference JAX-RS implementation.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Integration for Jersey 2.x
Bundle-SymbolicName: io.dropwizard.metrics.jersey2
Bundle-Version: 4.1.33
Created-By: Apache Maven Bundle Plugin 5.1.8
Export-Package: com.codahale.metrics.jersey2;uses:="com.codahale.metri
cs,javax.ws.rs.core,javax.ws.rs.ext,org.glassfish.jersey.server.model
,org.glassfish.jersey.server.monitoring";version="4.1.33"
Implementation-Title: Metrics Integration for Jersey 2.x
Implementation-Version: 4.1.33
Import-Package: com.codahale.metrics;version="[4.1,5)",com.codahale.me
trics.annotation;version="[4.1,5)",javax.ws.rs.core;version="[2.1,3)"
,javax.ws.rs.ext;version="[2.1,3)",org.glassfish.jersey.server;versio
n="[2.36,3)",org.glassfish.jersey.server.model;version="[2.36,3)",org
.glassfish.jersey.server.monitoring;version="[2.36,3)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /opt/cola/permits/1480501859_1668971440.221243/0/metrics-jersey2-4-1-33-jar/META-INF/MANIFEST.MF

1.1069 fgprof 0.9.3

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1.1070 simpleclient_tracer_common 0.16.0

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* /opt/cola/permits/1482466121_1669115001.9412196/0/simpleclient-tracer-common-0-16-0-sources-2-jar/META-INF/maven/io.prometheus/simpleclient_tracer_common/pom.xml

1.1071 simpleclient-common 0.16.0

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Found in path(s):
* /opt/cola/permits/1482466391_1669114990.4122345/0/simpleclient-common-0-16-0-2-jar/META-INF/maven/io.prometheus/simpleclient_common/pom.xml
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Manifest-Version: 1.0
Bnd-LastModified: 1655327905690
Build-Jdk: 11.0.15
Built-By: fabian
Bundle-Description: Common code used by various modules of the Simplecli
ent.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Java Simpleclient Common
Bundle-SymbolicName: io.prometheus.simpleclient_common
Bundle-Version: 0.16.0
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.client.exporter.common;uses:="io.prometheu
s.client";version="0.16.0"
Import-Package: io.prometheus.client;version="[0.16,1)",io.prometheus.cl

ient.exemplars;version="[0.16,1)"
Tool: Bnd-2.1.0.20130426-122213

Found in path(s):
* /opt/cola/permits/1482466391_1669114990.4122345/0/simpleclient-common-0-16-0-2-jar/META-INF/MANIFEST.MF

1.1072 simpleclient_tracer_otel 0.16.0

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* /opt/cola/permits/1482466280_1669114991.878089/0/simpleclient-tracer-otel-0-16-0-sources-jar/META-INF/maven/io.prometheus/simpleclient_tracer_otel/pom.xml

1.1073 simpleclient_tracer_otel_agent 0.16.0

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1.1074 simpleclient 0.16.0

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* /opt/cola/permits/1482466225_1669114997.6058185/0/simpleclient-0-16-0-sources-3-jar/META-INF/maven/io.prometheus/simpleclient/pom.xml
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*
* Source: http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/jsr166e/DoubleAdder.java?revision=1.12
*/

Found in path(s):
* /opt/cola/permits/1482466225_1669114997.6058185/0/simpleclient-0-16-0-sources-3-jar/io/prometheus/client/DoubleAdder.java
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*
* Source: http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/jsr166e/Striped64.java?revision=1.10
*/

Found in path(s):
* /opt/cola/permits/1482466225_1669114997.6058185/0/simpleclient-0-16-0-sources-3-jar/io/prometheus/client/Striped64.java

1.1075 cloud-utils 0.32-22-g45fe84a5-0ubuntu1

1.1075.1 Available under license :

Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: cloud-utils
Source: https://code.launchpad.net/cloud-utils
Upstream-Contact: Scott Moser <scott.moser@canonical.com>

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1.1084 github.com/exponent-io/jsonpath 0.0.0-20210407135951-1de76d718b3f

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1.1090 in-toto-in-toto-golang 0.5.0

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1.1092 prometheus-client-model 0.2.0

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/opt/cola/permits/1501915278_1670505420.2803373/0/javassist-3-29-2-ga-sources-1-jar/javassist/compiler/Javac.java
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* /opt/cola/permits/1501915278_1670505420.2803373/0/javassist-3-29-2-ga-sources-1-jar/javassist/tools/rmi/RemoteException.java
* /opt/cola/permits/1501915278_1670505420.2803373/0/javassist-3-29-2-ga-sources-1-jar/javassist/Loader.java
* /opt/cola/permits/1501915278_1670505420.2803373/0/javassist-3-29-2-ga-sources-1-jar/javassist/expr/NewExpr.java
* /opt/cola/permits/1501915278_1670505420.2803373/0/javassist-3-29-2-ga-sources-1-jar/javassist/compiler/ast/AssignExpr.java
* /opt/cola/permits/1501915278_1670505420.2803373/0/javassist-3-29-2-ga-sources-1-jar/javassist/bytecode/SignatureAttribute.java
* /opt/cola/permits/1501915278_1670505420.2803373/0/javassist-3-29-2-ga-sources-1-jar/javassist/expr/ExprEditor.java
* /opt/cola/permits/1501915278_1670505420.2803373/0/javassist-3-29-2-ga-sources-1-jar/javassist/bytecode/LocalVariableAttribute.java

* /opt/cola/permits/1501915278_1670505420.2803373/0/javassist-3-29-2-ga-sources-1-jar/javassist/bytecode/annotation/AnnotationImpl.java
* /opt/cola/permits/1501915278_1670505420.2803373/0/javassist-3-29-2-ga-sources-1-jar/javassist/bytecode/ConstantAttribute.java
* /opt/cola/permits/1501915278_1670505420.2803373/0/javassist-3-29-2-ga-sources-1-jar/javassist/bytecode/DuplicateMemberException.java
* /opt/cola/permits/1501915278_1670505420.2803373/0/javassist-3-29-2-ga-sources-1-jar/javassist/compiler/Parser.java
* /opt/cola/permits/1501915278_1670505420.2803373/0/javassist-3-29-2-ga-sources-1-jar/javassist/runtime/Inner.java
* /opt/cola/permits/1501915278_1670505420.2803373/0/javassist-3-29-2-ga-sources-1-jar/javassist/bytecode/AttributeInfo.java
* /opt/cola/permits/1501915278_1670505420.2803373/0/javassist-3-29-2-ga-sources-1-jar/javassist/CtPrimitiveType.java
* /opt/cola/permits/1501915278_1670505420.2803373/0/javassist-3-29-2-ga-sources-1-jar/javassist/bytecode/ExceptionsAttribute.java
* /opt/cola/permits/1501915278_1670505420.2803373/0/javassist-3-29-2-ga-sources-1-jar/javassist/util/proxy/RuntimeSupport.java
* /opt/cola/permits/1501915278_1670505420.2803373/0/javassist-3-29-2-ga-sources-1-jar/javassist/CtNewWrappedConstructor.java
* /opt/cola/permits/1501915278_1670505420.2803373/0/javassist-3-29-2-ga-sources-1-jar/javassist/compiler/ast/Expr.java
* /opt/cola/permits/1501915278_1670505420.2803373/0/javassist-3-29-2-ga-sources-1-jar/javassist/tools/rmi/AppletServer.java
* /opt/cola/permits/1501915278_1670505420.2803373/0/javassist-3-29-2-ga-sources-1-jar/javassist/tools/framedump.java
* /opt/cola/permits/1501915278_1670505420.2803373/0/javassist-3-29-2-ga-sources-1-jar/javassist/ClassPoolTail.java
* /opt/cola/permits/1501915278_1670505420.2803373/0/javassist-3-29-2-ga-sources-1-jar/javassist/compiler/SymbolTable.java
* /opt/cola/permits/1501915278_1670505420.2803373/0/javassist-3-29-2-ga-sources-1-jar/javassist/util/HotSwapAgent.java
* /opt/cola/permits/1501915278_1670505420.2803373/0/javassist-3-29-2-ga-sources-1-jar/javassist/bytecode/ByteArray.java
* /opt/cola/permits/1501915278_1670505420.2803373/0/javassist-3-29-2-ga-sources-1-jar/javassist/bytecode/analysis/IntQueue.java
* /opt/cola/permits/1501915278_1670505420.2803373/0/javassist-3-29-2-ga-sources-1-jar/javassist/compiler/ProceedHandler.java
* /opt/cola/permits/1501915278_1670505420.2803373/0/javassist-3-29-2-ga-sources-1-jar/javassist/tools/reflect/CannotInvokeException.java
* /opt/cola/permits/1501915278_1670505420.2803373/0/javassist-3-29-2-ga-sources-1-jar/javassist/CtArray.java
* /opt/cola/permits/1501915278_1670505420.2803373/0/javassist-3-29-2-ga-sources-1-jar/javassist/tools/rmi/Sample.java
* /opt/cola/permits/1501915278_1670505420.2803373/0/javassist-3-29-2-ga-sources-1-jar/javassist/util/proxy/ProxyObjectOutputStream.java

* /opt/cola/permits/1501915278_1670505420.2803373/0/javassist-3-29-2-ga-sources-1-jar/javassist/CtClass.java
* /opt/cola/permits/1501915278_1670505420.2803373/0/javassist-3-29-2-ga-sources-1-jar/javassist/bytecode/analysis/ControlFlow.java
* /opt/cola/permits/1501915278_1670505420.2803373/0/javassist-3-29-2-ga-sources-1-jar/javassist/bytecode/CodeIterator.java
* /opt/cola/permits/1501915278_1670505420.2803373/0/javassist-3-29-2-ga-sources-1-jar/javassist/compiler/ast/ASTree.java
* /opt/cola/permits/1501915278_1670505420.2803373/0/javassist-3-29-2-ga-sources-1-jar/javassist/tools/rmi/ObjectImporter.java
* /opt/cola/permits/1501915278_1670505420.2803373/0/javassist-3-29-2-ga-sources-1-jar/javassist/tools/web/BadHttpRequest.java
* /opt/cola/permits/1501915278_1670505420.2803373/0/javassist-3-29-2-ga-sources-1-jar/javassist/bytecode/stackmap/Tracer.java

1.1097 deep-eql 4.1.3

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*/
```

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```
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// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
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1.1100 jetty-util-ajax 9.4.49.v20220914

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
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 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

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 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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"Source code" for a work means the preferred form of the work for
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a purpose that is entirely well-defined independent of the
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must
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1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

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1.1116 github.com/deepmap/oapi-codegen 1.12.4

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1.1117 libnet-ssleay-perl 1.92-1build2

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1.1118 lzop 1.04-2build2

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1.1120 python-jsonpatch 1.32-2

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1.1121 fdisk 2.37.2

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```
NR START   END SECTORS SIZE NAME UUID
1    32  7679    7648 3.7M      8f8378c0-01
2  7680 16383    8704 4.3M      8f8378c0-02
5  7936 12799    4864 2.4M
6 12544 16127    3584 1.8M
```

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1.1123 finalrd 9build1

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1.1124 libmodule-find-perl 0.15-1

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```
---
abstract: 'Find and use installed modules in a (sub)category'
author:
 - 'Christian Renz <crenz@web42.com>'
build_requires:
 Test::More: 0
configure_requires:
 ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.66, CPAN::Meta::Converter version 2.133380'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: 1.4
name: Module-Find
no_index:
 directory:
   - t
   - inc
recommends:
 Test::Pod: 1.14
 Test::Pod::Coverage: 1.04
requires:
 File::Find: 0
 File::Spec: 0
 perl: 5.006001
resources:
 repository: http://github.com/crenz/Module-Find
version: 0.15
```

Found in path(s):
* /opt/cola/permits/1520426049_1671914447.359498/0/libmodule-find-perl-0-15-orig-1-tar-gz/Module-Find-0.15/META.yml
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```
=back

=head1 HISTORY

=over 8

=item 0.01, 2004-04-22
```

Original version; created by h2xs 1.22

=item 0.02, 2004-05-25

Added test modules that were left out in the first version. Thanks to
Stuart Johnston for alerting me to this.

=item 0.03, 2004-06-18

Fixed a bug (non-localized $_) by declaring a loop variable in use functions.
Thanks to Stuart Johnston for alerting me to this and providing a fix.

Fixed non-platform compatibility by using File::Spec.
Thanks to brian d foy.

Added setmoduledirs and updated tests. Idea shamelessly stolen from
...errm... inspired by brian d foy.

=item 0.04, 2005-05-20

Added POD tests.

=item 0.05, 2005-11-30

Fixed issue with bugfix in PathTools-3.14.

=item 0.06, 2008-01-26

Module::Find now won't report duplicate modules several times anymore (thanks to Uwe Völker for the report and the patch)

=item 0.07, 2009-09-08

Fixed RT#38302: Module::Find now follows symlinks by default
(can be disabled).

=item 0.08, 2009-09-08

Fixed RT#49511: Removed Mac OS X extended attributes from distribution

=item 0.09, 2010-02-26

Fixed RT#38302: Fixed META.yml generation (thanks very much to cpanservice for the help).

=item 0.10, 2010-02-26

Fixed RT#55010: Removed Unicode BOM from Find.pm.

=item 0.11, 2012-05-22

Fixed RT#74251: defined(@array) is deprecated under Perl 5.15.7.
Thanks to Roman F, who contributed the implementation.

=item 0.12, 2014-02-08

Fixed RT#81077: useall fails in taint mode
Thanks to Aran Deltac, who contributed the implementation and test.

Fixed RT#83596: Documentation doesn't describe behaviour if a module fails to load
Clarified documentation for useall and usesub.

Fixed RT#62923: setmoduledirs(undef) doesn't reset to searching @INC
Added more explicit tests.
Thanks to Colin Robertson for his input.

=item 0.13, 2015-03-09

This release contains two contributions from Moritz Lenz:

Link to Module::Pluggable and Class::Factory::Util in "SEE ALSO"

Align
 package name parsing with how perl does it (allowing single quotes as module separator)

Also, added a test for meta.yml

=item 0.14, 2019-12-25

A long overdue update. Thank you for the many contributions!

Fixed RT#99055: Removed file readability check (pull request contributed by Moritz Lenz)

Now supports @INC hooks (pull request contributed by Graham Knop)

Now filters out filenames starting with a dot (pull request contributed by Desmond Daignault)

Now uses strict (pull request contributed by Shlomi Fish)

Fixed RT#122016: test/ files show up in metacpan (bug report contributed by Karen Etheridge)

=item 0.15, 2019-12-26

Fixed RT#127657 (bug report contributed by Karen Etheridge): Module::Find now uses @ModuleDirs (if specified) for loading modules. Previously, when using setmoduledirs() to set an array of directories that did not contain @INC, Module::Find would find the modules correctly, but load

them from @INC.

=back

=head1 DEVELOPMENT NOTES

Please report any
 bugs using the CPAN RT system. The development repository for this module is hosted on GitHub:
L<http://github.com/crenz/Module-Find/>.

=head1 SEE ALSO

L<perl>, L<Module::Pluggable>, L<Class::Factory::Util>

=head1 AUTHOR

Christian Renz, E<lt>crenz@web42.comE<gt>

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=cut

Found in path(s):
* /opt/cola/permits/1520426049_1671914447.359498/0/libmodule-find-perl-0-15-orig-1-tar-gz/Module-Find-0.15/Find.pm
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Module::Find
==========

Module::Find lets you find and use modules in categories. This can be very
useful for auto-detecting driver or plugin modules. You can differentiate
between looking in the category itself or in all subcategories.

INSTALLATION

To install this module type the following:

```
perl Makefile.PL
make
make test
make install
```

DEPENDENCIES

This module requires these other modules and libraries:

Test::More
File::Spec
File::Find

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Found in path(s):
* /opt/cola/permits/1520426049_1671914447.359498/0/libmodule-find-perl-0-15-orig-1-tar-gz/Module-Find-0.15/README

1.1125 chardet 4.0.0-1

1.1125.1 Available under license :

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Version 2.1, February 1999

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1.1126 python-attrs 21.2.0-1

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1.1127 python-babel 2.8.0+dfsg.1-7

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1.1128 libsort-naturally-perl 1.03-2

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```
---
abstract: 'sort lexically, but sort numeral parts numerically'
author:
 - 'Sean M. Burke <sburke@cpan.org>'
build_requires:
 ExtUtils::MakeMaker: 0
configure_requires:
 ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.62, CPAN::Meta::Converter version 2.120921'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: 1.4
name: Sort-Naturally
no_index:
 directory:
   - t
   - inc
requires:
 perl: 5
resources:
 repository: https://github.com/bingos/sort-naturally
version: 1.03
```

Found in path(s):
* /opt/cola/permits/1520426032_1671914472.243481/0/libsort-naturally-perl-1-03-orig-1-tar-gz/Sort-Naturally-1.03/META.yml

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```
README for Sort::Naturally
                                Time-stamp: "2001-05-25 21:17:33 MDT"

      Sort::Naturally

[extracted from the Pod...]

NAME
   Sort::Naturally -- sort lexically, but sort numeral parts
   numerically

SYNOPSIS
     @them = nsort(qw(
      foo12a foo12z foo13a foo 14 9x foo12 fooa foolio Foolio Foo12a
     ));
```

```
print join(' ', @them), "\n";
```

Prints:

```
9x 14 foo fooa foolio Foolio foo12 foo12a Foo12a foo12z foo13a
```

(Or "foo12a" + "Foo12a" and "foolio" + "Foolio" and might be switched, depending on your locale.)

DESCRIPTION

This module exports two functions, nsort and ncmp; they are used in implementing my idea of a "natural sorting" algorithm. Under natural sorting, numeric substrings are compared numerically, and other word-characters are compared lexically.

This is the way I define natural sorting:

o Non-numeric word-character substrings are sorted lexically, case-insensitively: "Foo" comes between "fish" and "fowl".

o Numeric substrings are sorted numerically: "100" comes after "20", not before.

o \W substrings (neither words-characters nor digits) are ignored.

o Our use of \w, \d, \D, and \W is locale-sensitive: Sort::Naturally uses a use locale statement.

o When comparing two strings, where a numeric substring in one place is not up against a numeric substring in another, the non-numeric always comes first. This is fudged by reading pretending that the lack of a number substring has the value -1, like so:

```
foo       =>  "foo",  -1
foobar    =>  "foo",  -1,  "bar"
foo13     =>  "foo",  13,
foo13xyz  =>  "foo",  13,  "xyz"
```

That's so that "foo" will come before "foo13", which will come before "foobar".

o The start of a string is exceptional: leading non-\W

(non-word, non-digit) components are are ignored, and
numbers come before letters.

- I define "numeric substring" just as sequences matching m/\d+/ -- scientific notation, commas, decimals, etc., are not seen. If your data has thousands separators in numbers ("20,000 Leagues Under The Sea" or "20.000 lieues sous les mers"), consider stripping them before feeding them to nsort or ncmp.

[end Pod extract]

INSTALLATION

You install Sort::Naturally, as you would install any perl module library, by running these commands:

```
perl Makefile.PL
make
make test
make install
```

If you want to install a private copy of Sort::Naturally in your home directory, then you should try to produce the initial Makefile with something like this command:

```
perl Makefile.PL LIB=~/perl
```

See perldoc perlmodinstall for more information on installing modules.

DOCUMENTATION

POD-format documentation is included in Naturally.pm. POD is readable with the 'perldoc' utility. See ChangeLog for recent changes.

SUPPORT

Questions, bug reports, useful code bits, and suggestions for Sort::Naturally should just be sent to me at sburke@cpan.org

AVAILABILITY

The latest version of Sort::Naturally is available from the

Comprehensive Perl Archive Network (CPAN). Visit
<http://www.perl.com/CPAN/> to find a CPAN site near you.

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Found in path(s):
* /opt/cola/permits/1520426032_1671914472.243481/0/libsort-naturally-perl-1-03-orig-1-tar-gz/Sort-Naturally-1.03/README
No license file was found, but licenses were detected in source scan.

=head1 NAME

Sort::Naturally -- sort lexically, but sort numeral parts numerically

=head1 SYNOPSIS

```
 @them = nsort(qw(
  foo12a foo12z foo13a foo 14 9x foo12 fooa foolio Foolio Foo12a
 ));
 print join(' ', @them), "\n";
```

Prints:

```
 9x 14 foo fooa foolio Foolio foo12 foo12a Foo12a foo12z foo13a
```

(Or "foo12a" + "Foo12a" and "foolio" + "Foolio" and might be
switched, depending on your locale.)

=head1 DESCRIPTION

This module exports two functions, C<nsort> and C<ncmp>; they are used
in implementing my idea of a "natural sorting" algorithm. Under natural
sorting, numeric substrings are compared numerically, and other
word-characters are compared lexically.

This is the way I define natural sorting:

=over

=item *

Non-numeric word-character substrings are sorted lexically,
case-insensitively: "Foo" comes between "fish" and "fowl".

=item *

Numeric substrings are sorted numerically:
"100" comes after "20", not before.

=item
*

\W substrings (neither words-characters nor digits) are I<ignored>.

=item *

Our use of \w, \d, \D, and \W is locale-sensitive: Sort::Naturally
uses a C<use locale> statement.

=item *

When comparing two strings, where a numeric substring in one
place is I<not> up against a numeric substring in another,
the non-numeric always comes first. This is fudged by
reading pretending that the lack of a number substring has
the value -1, like so:

```
foo       =>  "foo",  -1
foobar    =>  "foo",  -1,  "bar"
foo13     =>  "foo",  13,
foo13xyz  =>  "foo",  13,  "xyz"
```

That's so that "foo" will come before "foo13", which will come
before "foobar".

=item *

The start of a string is exceptional: leading non-\W (non-word,
non-digit)
components are are ignored, and numbers come I<before> letters.

=item *

I define "numeric substring" just as sequences matching m/\d+/ --

scientific notation, commas, decimals, etc., are not seen. If
your data has thousands separators in numbers
("20,000
Leagues Under The Sea" or "20.000 lieues sous les mers"),
consider stripping them before feeding them to C<nsort> or
C<ncmp>.

=back

=head2 The nsort function

This function takes a list of strings, and returns a copy of the list,
sorted.

This is what most people will want to use:

```
@stuff = nsort(...list...);
```

When nsort needs to compare non-numeric substrings, it
uses Perl's C<lc> function in scope of a <use locale>.
And when nsort needs to lowercase things, it uses Perl's
C<lc> function in scope of a <use locale>. If you want nsort
to use other functions instead, you can specify them in
an arrayref as the first argument to nsort:

```
@stuff = nsort( [
                \&string_comparator,   # optional
                \&lowercaser_function  # optional
              ],
              ...list...
            );
```

If you want to specify a string comparator but no lowercaser,
then the options list is C<[\&comparator, "]> or
C<[\&comparator]>. If you want to
specify no string comparator
but a lowercaser, then the options list is
C<["", \&lowercaser]>.

Any comparator you specify is called as
C<$comparator-E<gt>($left, $right)>,
and, like a normal Perl C<cmp> replacement, must return
-1, 0, or 1 depending on whether the left argument is stringwise
less than, equal to, or greater than the right argument.

Any lowercaser function you specify is called as
C<$lowercased = $lowercaser-E<gt>($original)>. The routine
must not modify its C<$_[0]>.

=head2 The ncmp function

Often, when sorting non-string values like this:

```
  @objects_sorted = sort { $a->tag cmp $b->tag } @objects;
```

...or even in a Schwartzian transform, like this:

```
  @strings =
    map $_->[0]
    sort { $a->[1] cmp $b->[1] }
    map { [$_, make_a_sort_key_from($_) ]
    @_
  ;
```

...you wight want something that replaces not C<sort>, but C<cmp>.
That's what Sort::Naturally's C<ncmp> function is for. Call it with
the syntax C<ncmp($left,$right)> instead of C<$left cmp $right>,
but
 otherwise it's a fine replacement:

```
  @objects_sorted = sort { ncmp($a->tag,$b->tag) } @objects;

  @strings =
    map $_->[0]
    sort { ncmp($a->[1], $b->[1]) }
    map { [$_, make_a_sort_key_from($_) ]
    @_
  ;
```

Just as with C<nsort> can take different a string-comparator
and/or lowercaser, you can do the same with C<ncmp>, by passing
an arrayref as the first argument:

```
 ncmp( [
         \&string_comparator,   # optional
         \&lowercaser_function  # optional
       ],
       $left, $right
     )
```

You might get string comparators from L<Sort::ArbBiLex|Sort::ArbBiLex>.

=head1 NOTES

=over

=item *

This module is not a substitute for
L<Sort::Versions|Sort::Versions>! If
you just need proper version sorting, use I<that!>

=item *

If you need something that works I<sort of> like this module's
functions, but not quite the same, consider scouting thru this
module's source code, and adapting what you see. Besides
the functions that actually compile in this
 module, after the POD,
there's several alternate attempts of mine at natural sorting
routines, which are not compiled as part of the module, but which you
might find useful. They should all be I<working> implementations of
slightly different algorithms
(all of them based on Martin Pool's C<nsort>) which I eventually
discarded in favor of my algorithm. If you are having to
naturally-sort I<very large> data sets, and sorting is getting
ridiculously slow, you might consider trying one of those
discarded functions -- I have a feeling they might be faster on
large data sets. Benchmark them on your data and see. (Unless
you I<need> the speed, don't bother. Hint: substitute C<sort>
for C<nsort> in your code, and unless your program speeds up
drastically, it's not the sorting that's slowing things down.
But if it I<is> C<nsort> that's slowing things down, consider
just:

```
if(@set >= SOME_VERY_BIG_NUMBER) {
  no locale; # vroom vroom
  @sorted = sort(@set);  # feh, good enough
 } elsif(@set >= SOME_BIG_NUMBER) {
  use locale;
  @sorted = sort(@set);  # feh, good enough
} else {
  # but keep it pretty for normal cases
  @sorted = nsort(@set);
}
```

=item *

If you do adapt the routines in this module, email me; I'd
just be interested in hearing about it.

=item *

Thanks to the EFNet #perl people for encouraging this module,

especially magister and a-mused.

=back

=head1 COPYRIGHT AND DISCLAIMER

Copyright 2001, Sean M. Burke C<sburke@cpan.org>, all rights reserved. This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

This program is distributed in the hope that it will be useful, but without any warranty; without even the implied warranty of merchantability or fitness for a particular purpose.

=head1 AUTHOR

Sean M. Burke C<sburke@cpan.org>

=cut

```
############   END OF DOCS   ############

##############################################################################
##############################################################################

############
 BEGIN OLD STUFF ############

# We can't have "use integer;", or else (5 <=> 5.1) comes out "0" !

#-----------------------------------------------------------------------------
sub nsort {
 my($cmp, $lc);
 return @_ if @_ < 2;   # Just to be CLEVER.

 my($x, $i);  # scratch vars

 # And now, the GREAT BIG Schwartzian transform:

 map
   $_->[0],

 sort {
   # Uses $i as the index variable, $x as the result.
   $x = 0;
   $i = 1;
   DEBUG and print "\nComparing ", map("{$_}", @$a),
                ' : ', map("{$_}", @$b), , "...\n";
```

```
  while($i < @$a and $i < @$b) {
    DEBUG and print "  comparing $i: {$a->[$i]} cmp {$b->[$i]} => ",
      $a->[$i] cmp $b->[$i], "\n";
    last if ($x = ($a->[$i] cmp $b->[$i])); # lexicographic
    ++$i;

    DEBUG and print "  comparing $i: {$a->[$i]} <=> {$b->[$i]} => ",
      $a->[$i] <=> $b->[$i], "\n";
    last if ($x = ($a->[$i]
<=> $b->[$i])); # numeric
    ++$i;
  }

  DEBUG and print "{$a->[0]} : {$b->[0]} is ",
    $x || (@$a <=> @$b) || 0
    ,"\n"
  ;
  $x || (@$a <=> @$b) || ($a->[0] cmp $b->[0]);
    # unless we found a result for $x in the while loop,
    #  use length as a tiebreaker, otherwise use cmp
    #  on the original string as a fallback tiebreaker.
}

map {
  my @bit = ($x = defined($_) ? $_ : '');

  if($x =~ m/^[+-]?(?=\d|\.\d)\d*(?:\.\d*)?(?:[Ee](?:[+-]?\d+))?\z/s) {
    # It's entirely purely numeric, so treat it specially:
    push @bit, '', $x;
  } else {
    # Consume the string.
    while(length $x) {
      push @bit, ($x =~ s/^(\D+)//s) ? lc($1) : '';
      push @bit, ($x =~ s/^(\d+)//s) ?    $1  :  0;
    }
  }
  DEBUG and print "$bit[0] => ", map("{$_} ", @bit), "\n";

  # End result: [original bit         , (text, number), (text, number), ...]
  # Minimally:  [0-length original bit,]
  # Examples:
  #    ['10'
  => "   ,  10,              ]
  #    ['fo900'      => 'fo' , 900,              ]
  #    ['foo10'      => 'foo',  10,              ]
  #    ['foo9.pl'    => 'foo',   9,   , '.pl', 0 ]
  #    ['foo32.pl'   => 'foo',  32,   , '.pl', 0 ]
```

```
  #    ['foo325.pl'  => 'foo', 325,   , '.pl', 0 ]
  #  Yes, always an ODD number of elements.

  \@bit;
 }
 @_;
}

#-----------------------------------------------------------------------------
# Same as before, except without the pure-number trap.

sub nsorts {
 return @_ if @_ < 2;   # Just to be CLEVER.

 my($x, $i);  # scratch vars

 # And now, the GREAT BIG Schwartzian transform:

 map
  $_->[0],

 sort {
  # Uses $i as the index variable, $x as the result.
  $x = 0;
  $i = 1;
  DEBUG and print "\nComparing ", map("{$_}", @$a),
              ' : ', map("{$_}", @$b), , "...\n";

  while($i < @$a and $i < @$b) {
    DEBUG and print "  comparing $i: {$a->[$i]} cmp {$b->[$i]} => ",
      $a->[$i] cmp $b->[$i], "\n";
     last if ($x = ($a->[$i] cmp $b->[$i])); # lexicographic
    ++$i;

    DEBUG and print "  comparing $i: {$a->[$i]} <=> {$b->[$i]} => ",
      $a->[$i] <=> $b->[$i], "\n";
    last if ($x = ($a->[$i] <=> $b->[$i])); # numeric
    ++$i;
  }

  DEBUG and print "{$a->[0]} : {$b->[0]} is ",
    $x || (@$a <=> @$b) || 0
    ,"\n"
  ;
  $x || (@$a <=> @$b) || ($a->[0] cmp $b->[0]);
    # unless we found a result for $x in the while loop,
    #  use length as a tiebreaker, otherwise use cmp
    #  on the original string as a fallback tiebreaker.
```

```
 }

 map {
   my @bit = ($x = defined($_) ? $_ : '');

   while(length $x) {
     push @bit, ($x =~ s/^(\D+)//s) ? lc($1) : '';
     push @bit, ($x =~ s/^(\d+)//s) ?    $1  :  0;
   }
   DEBUG and print "$bit[0] => ", map("{$_} ", @bit), "\n";

   # End result: [original bit         , (text, number), (text, number), ...]
   # Minimally:  [0-length original bit,]
   # Examples:
   #    ['10'         => ''
   ,  10,              ]
   #    ['fo900'      => 'fo' , 900,              ]
   #    ['foo10'      => 'foo',  10,              ]
   #    ['foo9.pl'    => 'foo',   9,   , '.pl', 0 ]
   #    ['foo32.pl'   => 'foo',  32,   , '.pl', 0 ]
   #    ['foo325.pl'  => 'foo', 325,   , '.pl', 0 ]
   #  Yes, always an ODD number of elements.

   \@bit;
 }
 @_;
}

#-----------------------------------------------------------------------------
# Same as before, except for the sort-key-making

sub nsort0 {
 return @_ if @_ < 2;   # Just to be CLEVER.

 my($x, $i);  # scratch vars

 # And now, the GREAT BIG Schwartzian transform:

 map
   $_->[0],

 sort {
   # Uses $i as the index variable, $x as the result.
   $x = 0;
   $i = 1;
   DEBUG and print "\nComparing ", map("{$_}", @$a),
                 ' : ', map("{$_}", @$b), , "...\n";
```

```
  while($i < @$a and $i < @$b) {
    DEBUG and print "  comparing $i: {$a->[$i]} cmp {$b->[$i]} => ",
      $a->[$i] cmp $b->[$i], "\n";
    last
if ($x = ($a->[$i] cmp $b->[$i])); # lexicographic
    ++$i;

    DEBUG and print "  comparing $i: {$a->[$i]} <=> {$b->[$i]} => ",
      $a->[$i] <=> $b->[$i], "\n";
    last if ($x = ($a->[$i] <=> $b->[$i])); # numeric
    ++$i;
  }

  DEBUG and print "{$a->[0]} : {$b->[0]} is ",
    $x || (@$a <=> @$b) || 0
    ,"\n"
  ;
  $x || (@$a <=> @$b) || ($a->[0] cmp $b->[0]);
    # unless we found a result for $x in the while loop,
    #  use length as a tiebreaker, otherwise use cmp
    #  on the original string as a fallback tiebreaker.
}

map {
  my @bit = ($x = defined($_) ? $_ : '');

  if($x =~ m/^[+-]?(?=\d|\.\d)\d*(?:\.\d*)?(?:[Ee](?:[+-]?\d+))?\z/s) {
    # It's entirely purely numeric, so treat it specially:
    push @bit, '', $x;
  } else {
    # Consume the string.
    while(length $x) {
      push @bit, ($x =~ s/^(\D+)//s) ? lc($1) : '';
      # Secret sauce:
      if($x =~ s/^(\d+)//s) {
        if(substr($1,0,1) eq '0' and
$1 != 0) {
          push @bit, $1 / (10 ** length($1));
        } else {
          push @bit, $1;
        }
      } else {
        push @bit, 0;
      }
    }
  }
  DEBUG and print "$bit[0] => ", map("{$_} ", @bit), "\n";
```

```
  \@bit;
 }
 @_;
}

#-----------------------------------------------------------------------------
# Like nsort0, but WITHOUT pure number handling, and WITH special treatment
# of pulling off extensions and version numbers.

sub nsortf {
 return @_ if @_ < 2;   # Just to be CLEVER.

 my($x, $i);  # scratch vars

 # And now, the GREAT BIG Schwartzian transform:

 map
   $_->[0],

 sort {
   # Uses $i as the index variable, $x as the result.
   $x = 0;
   $i = 3;
   DEBUG and print "\nComparing ", map("{$_}", @$a),
                 ' : ', map("{$_}", @$b), , "...\n";

   while($i < @$a and $i < @$b) {
     DEBUG and print "  comparing $i: {$a->[$i]} cmp {$b->[$i]} => ",
       $a->[$i] cmp $b->[$i], "\n";
     last if ($x = ($a->[$i]
 cmp $b->[$i])); # lexicographic
     ++$i;

     DEBUG and print "  comparing $i: {$a->[$i]} <=> {$b->[$i]} => ",
       $a->[$i] <=> $b->[$i], "\n";
     last if ($x = ($a->[$i] <=> $b->[$i])); # numeric
     ++$i;
   }

   DEBUG and print "{$a->[0]} : {$b->[0]} is ",
     $x || (@$a <=> @$b) || 0
     ,"\n"
   ;
   $x || (@$a     <=> @$b    ) || ($a->[1] cmp $b->[1])
      || ($a->[2] <=> $b->[2]) || ($a->[0] cmp $b->[0]);
     # unless we found a result for $x in the while loop,
     #  use length as a tiebreaker, otherwise use the
     #  lc'd extension, otherwise the verison, otherwise use
```

```
    #  the original string as a fallback tiebreaker.
}

map {
  my @bit = ( ($x = defined($_) ? $_ : ''), '',0 );

  {
    # Consume the string.

    # First, pull off any VAX-style version
    $bit[2] = $1 if $x =~ s/;(\d+)$//;

    # Then pull off any apparent extension
    if( $x !~ m/^\.+$/s and     # don't mangle ".", "..", or "..."
        $x =~
s/(\.[^\.\;]*)$//sg
        # We could try to avoid catching all-digit extensions,
        #  but I think that's getting /too/ clever.
    ) {
      $i = $1;
      if($x =~ m<[^\\\:/]$>s) {
        # We didn't take the whole basename.
        $bit[1] = lc $i;
        DEBUG and print "Consuming extension \"$1\"\n";
      } else {
        # We DID take the whole basename.  Fix it.
        $x = $1;  # Repair it.
      }
    }

    push @bit, '', -1   if $x =~ m/^\./s;
     # A hack to make .-initial filenames sort first, regardless of locale.
     # And -1 is always a sort-firster, since in the code below, there's
     # no allowance for filenames containing negative numbers: -1.dat
     # will be read as string '-' followed by number 1.

    while(length $x) {
      push @bit, ($x =~ s/^(\D+)//s) ? lc($1) : '';
      # Secret sauce:
      if($x =~ s/^(\d+)//s) {
        if(substr($1,0,1) eq '0' and $1 != 0) {
          push @bit, $1 / (10
** length($1));
        } else {
          push @bit, $1;
        }
      } else {
        push @bit, 0;
```

```
      }
    }
  }

  DEBUG and print "$bit[0] => ", map("{$_} ", @bit), "\n";

  \@bit;
 }
 @_;
}

# yowza yowza yowza.
```

Found in path(s):
* /opt/cola/permits/1520426032_1671914472.243481/0/libsort-naturally-perl-1-03-orig-1-tar-gz/Sort-Naturally-1.03/lib/Sort/Naturally.pm

1.1129 public-suffix 20211207.1025-1

1.1129.1 Available under license :

```
Mozilla Public License Version 2.0
==================================

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--------------

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.. _contrib:

==========
click-contrib
==========

As the userbase of Click grows, more and more major feature requests pop up in
Click's bugtracker. As reasonable as it may be for those features to be bundled
with Click instead of being a standalone project, many of those requested
features are either highly experimental or have unproven practical use, while
potentially being a burden to maintain.

This is why click-contrib_ exists. The GitHub organization is a collection of possibly experimental third-party packages whose featureset does not belong into Click, but also a playground for major features that may be added to Click in the future. It is also meant to coordinate and concentrate effort on writing third-party extensions for Click, and to ease the effort of searching for such extensions. In that sense it could be described as a low-maintenance alternative to extension repositories of other frameworks.

Please
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.. _click-contrib: https://github.com/click-contrib/

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1.1131 pyserial 3.5-1

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1.1140 pcre 8.39-15

1.1140.1 Available under license :

This is Debian GNU/Linux's prepackaged version of the PCRE regular expression library and associated pgrep utility.

This package was put together by me, Mark Baker <mbaker@iee.org> from the original sources obtained from ftp.csx.cam.ac.uk:/pub/software/programming/pcre.

PCRE LICENCE

PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions.

THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

University of Cambridge Computing Service,
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1.1142 libpkit 0.24.1-2

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1.1143 sed 4.9-1

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Version 3, 29 June 2007

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1.1145 ncw-swift 1.0.53

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1.1146 baidubce-bce-sdk-go 0.9.111

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1.1147 efficientgo-tools-extkingpin 0.0.0-20220817170617-6c25e3b627dd

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1.1148 lightstep-lightstep-tracer-go 0.25.0

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1.1150 lightstep-lightstep-tracer-common-golang-gogo 0.0.0-20210210170715-a8dfcb80d3a7

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1.1156 github.com/efficientgo/tools/extkingpin 0.0.0-20220817170617-6c25e3b627dd

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1.1161 kubernetes-client-api 6.2.0

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-->
```

Found in path(s):
* /opt/cola/permits/1531554044_1673588908.2999563/0/kubernetes-client-api-6-2-0-1-jar/META-INF/maven/io.fabric8/kubernetes-client-api/pom.xml

1.1162 kubernetes-model-node 6.2.0

1.1162.1 Available under license :

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```
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Found in path(s):
* /opt/cola/permits/1531554768_1673589472.8005664/0/kubernetes-model-node-6-2-0-1-jar/META-INF/maven/io.fabric8/kubernetes-model-node/pom.xml
No license file was found, but licenses were detected in source scan.

```
Manifest-Version: 1.0
Build-Jdk-Spec: 1.8
Bundle-Description: Java client for Kubernetes and OpenShift
Bundle-DocURL: http://redhat.com
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Fabric8 :: Kubernetes Model :: Node
Bundle-SymbolicName: io.fabric8.kubernetes-model-node
Bundle-Vendor: Red Hat
Bundle-Version: 6.2.0
Created-By: Apache Maven Bundle Plugin 5.1.8
Export-Package: io.fabric8.kubernetes.api.model.node.v1;uses:="com.fas
terxml.jackson.annotation,com.fasterxml.jackson.databind,com.fasterxm
l.jackson.databind.annotation,io.fabric8.kubernetes.api.builder,io.fa
bric8.kubernetes.api.model,io.fabric8.kubernetes.model.annotation";ve
rsion="6.2.0",io.fabric8.kubernetes.api.model.node.v1alpha1;uses:="co
m.fasterxml.jackson.annotation,com.fasterxml.jackson.databind,com.fas
terxml.jackson.databind.annotation,io.fabric8.kubernetes.api.builder,
io.fabric8.kubernetes.api.model,io.fabric8.kubernetes.model.annotatio
 n";version="6.2.0",io.fabric8.kubernetes.api.model.node.v1beta1;uses:
="com.fasterxml.jackson.annotation,com.fasterxml.jackson.databind,com
.fasterxml.jackson.databind.annotation,io.fabric8.kubernetes.api.buil
der,io.fabric8.kubernetes.api.model,io.fabric8.kubernetes.model.annot
ation";version="6.2.0"
Implementation-URL: http://fabric8.io/kubernetes-model-generator/kuber
netes-model-node/
Import-Package: com.fasterxml.jackson.annotation;version="[2.13,3)",co
m.fasterxml.jackson.databind;version="[2.13,3)",com.fasterxml.jackson
.databind.annotation;version="[2.13,3)",io.fabric8.kubernetes.api.bui
lder;version="[6.2,7)",io.fabric8.kubernetes.api.model,io.fabric8.kub
ernetes.model.annotation;version="[6.2,7)"
Include-Resource: manifest.vm=src/main/resources/manifest.vm,schema/ku
be-schema.json=src/main/resources/schema/kube-schema.json,schema/vali
dation-schema.json=src/main/resources/schema/validation-schema.json,/
META-INF/jandex.idx=target/classes/META-INF/jandex.idx,/node.properti
```

es=target/classes/node.properties,
Private-Package: schema
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Scm-Connection: scm:git:git@github.com:fabric8io/kubernetes-client.git
/kubernetes-model-generator/kubernetes-model-node
Scm-Revision: ${buildNumber}
Scm-Url: http://github.com/fabric8io/kubernetes-client/kubernetes-mode
l-generator/kubernetes-model-node/
Specification-Title: Fabric8 :: Kubernetes Model :: Node
Specification-Vendor: Red Hat
Specification-Version: 6.2
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /opt/cola/permits/1531554768_1673589472.8005664/0/kubernetes-model-node-6-2-0-1-jar/META-INF/MANIFEST.MF
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* /opt/cola/permits/1531554768_1673589472.8005664/0/kubernetes-model-node-6-2-0-1-jar/manifest.vm

1.1163 kubernetes-model-common 6.2.0

1.1163.1 Available under license :

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Manifest-Version: 1.0
Build-Jdk-Spec: 1.8
Bundle-Description: Java client for Kubernetes and OpenShift
Bundle-DocURL: http://redhat.com
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt

Bundle-ManifestVersion: 2
Bundle-Name: Fabric8 :: Kubernetes Model :: Common
Bundle-SymbolicName: io.fabric8.kubernetes-model-common
Bundle-Vendor: Red Hat
Bundle-Version: 6.2.0
Created-By: Apache Maven Bundle Plugin 5.1.8
Export-Package: io.fabric8.kubernetes.model;version="6.2.0",io.fabric8
.kubernetes.model.annotation;version="6.2.0",io.fabric8.kubernetes.mo
del.jackson;uses:="com.fasterxml.jackson.core,com.fasterxml.jackson.d
atabind,com.fasterxml.jackson.databind.deser,com.fasterxml.jackson.da
tabind.introspect,com.fasterxml.jackson.databind.jsontype,com.fasterx
ml.jackson.databind.jsontype.impl,com.fasterxml.jackson.databind.modu
le,com.fasterxml.jackson.databind.ser";version="6.2.0",io.fabric8.kub
ernetes.model.util;version="6.2.0"
Implementation-URL:
 http://fabric8.io/kubernetes-model-generator/kuber
netes-model-common/
Import-Package: com.fasterxml.jackson.annotation;version="[2.13,3)",co
m.fasterxml.jackson.core;version="[2.13,3)",com.fasterxml.jackson.dat
abind;version="[2.13,3)",com.fasterxml.jackson.databind.deser;version
="[2.13,3)",com.fasterxml.jackson.databind.exc;version="[2.13,3)",com
.fasterxml.jackson.databind.introspect;version="[2.13,3)",com.fasterx
ml.jackson.databind.jsontype;version="[2.13,3)",com.fasterxml.jackson
.databind.jsontype.impl;version="[2.13,3)",com.fasterxml.jackson.data
bind.module;version="[2.13,3)",com.fasterxml.jackson.databind.node;ve
rsion="[2.13,3)",com.fasterxml.jackson.databind.ser;version="[2.13,3)
",com.fasterxml.jackson.databind.util;version="[2.13,3)",io.fabric8.k
ubernetes.model.annotation,org.slf4j;version="[1.7,2)"
Include-Resource: ,/META-INF/jandex.idx=target/classes/META-INF/jandex
.idx
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Scm-Connection:
 scm:git:git@github.com:fabric8io/kubernetes-client.git
/kubernetes-model-generator/kubernetes-model-common
Scm-Revision: ${buildNumber}
Scm-Url: http://github.com/fabric8io/kubernetes-client/kubernetes-mode
l-generator/kubernetes-model-common/
Specification-Title: Fabric8 :: Kubernetes Model :: Common
Specification-Vendor: Red Hat
Specification-Version: 6.2
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /opt/cola/permits/1531554738_1673590096.884944/0/kubernetes-model-common-6-2-0-1-jar/META-INF/MANIFEST.MF
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* /opt/cola/permits/1531554738_1673590096.884944/0/kubernetes-model-common-6-2-0-1-jar/META-INF/maven/io.fabric8/kubernetes-model-common/pom.xml

1.1164 kubernetes-model-flowcontrol 6.2.0

1.1164.1 Available under license :

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* /opt/cola/permits/1531554875_1673589992.6210108/0/kubernetes-model-flowcontrol-6-2-0-1-jar/manifest.vm
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Manifest-Version: 1.0

Build-Jdk-Spec: 1.8
Bundle-Description: Java client for Kubernetes and OpenShift
Bundle-DocURL: http://redhat.com
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Fabric8 :: Kubernetes Model :: FlowControl
Bundle-SymbolicName: io.fabric8.kubernetes-model-flowcontrol
Bundle-Vendor: Red Hat
Bundle-Version: 6.2.0
Created-By: Apache Maven Bundle Plugin 5.1.8
Export-Package: io.fabric8.kubernetes.api.model.flowcontrol.v1beta1;us
es:="com.fasterxml.jackson.annotation,com.fasterxml.jackson.databind,
com.fasterxml.jackson.databind.annotation,io.fabric8.kubernetes.api.b
uilder,io.fabric8.kubernetes.api.model,io.fabric8.kubernetes.model.an
notation";version="6.2.0",io.fabric8.kubernetes.api.model.flowcontrol
.v1beta2;uses:="com.fasterxml.jackson.annotation,com.fasterxml.jackso
n.databind,com.fasterxml.jackson.databind.annotation,io.fabric8.kuber
 netes.api.builder,io.fabric8.kubernetes.api.model,io.fabric8.kubernet
es.model.annotation";version="6.2.0"
Implementation-URL: http://fabric8.io/kubernetes-model-generator/kuber
netes-model-flowcontrol/
Import-Package: com.fasterxml.jackson.annotation;version="[2.13,3)",co
m.fasterxml.jackson.databind;version="[2.13,3)",com.fasterxml.jackson
.databind.annotation;version="[2.13,3)",io.fabric8.kubernetes.api.bui
lder;version="[6.2,7)",io.fabric8.kubernetes.api.model,io.fabric8.kub
ernetes.model.annotation;version="[6.2,7)"
Include-Resource: manifest.vm=src/main/resources/manifest.vm,schema/ku
be-schema.json=src/main/resources/schema/kube-schema.json,schema/vali
dation-schema.json=src/main/resources/schema/validation-schema.json,/
META-INF/jandex.idx=target/classes/META-INF/jandex.idx,/flowcontrol.p
roperties=target/classes/flowcontrol.properties,
Private-Package: schema
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Scm-Connection: scm:git:git@github.com:fabric8io/kubernetes-client.git
 /kubernetes-model-generator/kubernetes-model-flowcontrol
Scm-Revision: ${buildNumber}
Scm-Url: http://github.com/fabric8io/kubernetes-client/kubernetes-mode
l-generator/kubernetes-model-flowcontrol/
Specification-Title: Fabric8 :: Kubernetes Model :: FlowControl
Specification-Vendor: Red Hat
Specification-Version: 6.2
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /opt/cola/permits/1531554875_1673589992.6210108/0/kubernetes-model-flowcontrol-6-2-0-1-jar/META-INF/MANIFEST.MF
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* /opt/cola/permits/1531554875_1673589992.6210108/0/kubernetes-model-flowcontrol-6-2-0-1-jar/META-INF/maven/io.fabric8/kubernetes-model-flowcontrol/pom.xml

1.1165 kubernetes-model-gatewayapi 6.2.0

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Found in path(s):
* /opt/cola/permits/1531554826_1673589597.3569734/0/kubernetes-model-gatewayapi-6-2-0-1-jar/META-INF/maven/io.fabric8/kubernetes-model-gatewayapi/pom.xml
No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Build-Jdk-Spec: 1.8
Bundle-Description: Java client for Kubernetes and OpenShift
Bundle-DocURL: http://redhat.com
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Fabric8 :: Kubernetes Model :: Sigs :: Gateway API
Bundle-SymbolicName: io.fabric8.kubernetes-model-gatewayapi
Bundle-Vendor: Red Hat
Bundle-Version: 6.2.0
Created-By: Apache Maven Bundle Plugin 5.1.8
Export-Package: io.fabric8.kubernetes.api.model.gatewayapi.v1alpha2;us
es:="com.fasterxml.jackson.annotation,com.fasterxml.jackson.databind,
com.fasterxml.jackson.databind.annotation,io.fabric8.kubernetes.api.b
uilder,io.fabric8.kubernetes.api.model,io.fabric8.kubernetes.model.an
notation";version="6.2.0",io.fabric8.kubernetes.api.model.gatewayapi.
v1beta1;uses:="com.fasterxml.jackson.annotation,com.fasterxml.jackson
.databind,com.fasterxml.jackson.databind.annotation,io.fabric8.kubern
 etes.api.builder,io.fabric8.kubernetes.api.model,io.fabric8.kubernete
s.model.annotation";version="6.2.0"
Implementation-URL: http://fabric8.io/kubernetes-model-generator/kuber
netes-model-gatewayapi/
Import-Package: com.fasterxml.jackson.annotation;version="[2.13,3)",co
m.fasterxml.jackson.databind;version="[2.13,3)",com.fasterxml.jackson
.databind.annotation;version="[2.13,3)",io.fabric8.kubernetes.api.bui

lder;version="[6.2,7)",io.fabric8.kubernetes.api.model,io.fabric8.kub
ernetes.model.annotation;version="[6.2,7)"
Include-Resource: manifest.vm=src/main/resources/manifest.vm,schema/ku
be-schema.json=src/main/resources/schema/kube-schema.json,schema/vali
dation-schema.json=src/main/resources/schema/validation-schema.json,/
META-INF/jandex.idx=target/classes/META-INF/jandex.idx,/gatewayapi.pr
operties=target/classes/gatewayapi.properties,
Private-Package: schema
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Scm-Connection: scm:git:git@github.com:fabric8io/kubernetes-client.git
 /kubernetes-model-generator/kubernetes-model-gatewayapi
Scm-Revision: ${buildNumber}
Scm-Url: http://github.com/fabric8io/kubernetes-client/kubernetes-mode
l-generator/kubernetes-model-gatewayapi/
Specification-Title: Fabric8 :: Kubernetes Model :: Sigs :: Gateway AP
I
Specification-Vendor: Red Hat
Specification-Version: 6.2
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /opt/cola/permits/1531554826_1673589597.3569734/0/kubernetes-model-gatewayapi-6-2-0-1-jar/META-INF/MANIFEST.MF

1.1166 libksba 1.6.0-2ubuntu0.2

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1.1173 x-crypto 0.5.0

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1.1174 x-oauth2 0.4.0

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1.1175 chrony 4.2-2ubuntu2

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1.1176 fuse 2.9.9-5ubuntu3

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contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file
is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of
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during execution displays copyright notices, you must include the
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directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever

changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the

Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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1.1187 attr 2.5.1-4

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allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means

all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has

a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function
must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
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This option is useful when you wish to copy part of the code of
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4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form

under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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1.1188 libxcrypt 4.4.33-2

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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based

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In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or

linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany

the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
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with the Library, with the complete machine-readable "work that
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b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate
properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
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d) If distribution of the work is made by offering access to copy
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========

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<!-- CreationDate: Fri Jan 14 19:57:50 2011 -->
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta name="generator" content="groff -Thtml, see www.gnu.org">
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<meta name="Content-Style" content="text/css">
<link rel="stylesheet" type="text/css" href="texi2tr.css" />
<title>GNU Modula-2</title>
</head>

```
<body>
 <!-- site wide top running header menu -->

 <ul id="overview">
   <li class="home">
     HOME_HREF
   </li>
   <li class="release">
     12_HREF
   </li>

   <li>
     <a href="news.html" title="News">News</a>
   </li>
   <li>
     <a href="development.html" title="Development">Development</a>
   </li>
   <li>
     <a href="community.html" title="Community">Community</a>
   </li>
 </ul>

 <div id="header">
   <h1>
     <span style="display:inline-block; vertical-align:middle">
 <img
 src="200px-Heckert_GNU_white.png" alt="Heckert_GNU_white.png">
     </span>
     <span style="display:inline-block; vertical-align:middle; font-size: 50px">
 GNU Modula-2
     </span>
   </h1>

   <!-- homepage tab menu -->

   <div id="tabmenu">
     <ul id="tab">
 <li><a href="about.html"><span>About</span></a></li>
 <li><a href="download.html"><span>Download</span></a></li>
 <li><a href="release.html"><span>Latest Release</span></a></li>
 <li class="selected"><a href="license.html"><span>License</span></a></li>
 <li><a href="platforms.html"><span>Platforms</span></a></li>
 <li><a href="users.html"><span>Users</span></a></li>
     </ul>
   </div>
 </div>
```

```
<div id="page">
 <div class="plain">
   <h2>The home of the GNU Modula-2 compiler</h2>
   <p>The compiler is held under the GNU Public Licence v3.</p>
   <p>The ISO and PIM libraries are under the GPL v3.1 with GCC runtime extensions.  Copies of the
     licences can be found on the
     <a href="http://www.gnu.org/licenses">GNU</a>
 web site.</p>
 </div>
</div>
</body>
</html>
```

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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========

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<!-- CreationDate: Fri Jan 14 19:57:50 2011 -->
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta name="generator" content="groff -Thtml, see www.gnu.org">
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<meta name="Content-Style" content="text/css">
<link rel="stylesheet" type="text/css" href="texi2tr.css" />
<title>GNU Modula-2</title>
</head>

```
<body>
 <!-- site wide top running header menu -->

 <ul id="overview">
   <li class="home">
     HOME_HREF
   </li>
   <li class="release">
     12_HREF
   </li>

   <li>
     <a href="news.html" title="News">News</a>
   </li>
   <li>
     <a href="development.html" title="Development">Development</a>
   </li>
   <li>
     <a href="community.html" title="Community">Community</a>
   </li>
 </ul>

 <div id="header">
   <h1>
     <span style="display:inline-block; vertical-align:middle">
 <img
 src="200px-Heckert_GNU_white.png" alt="Heckert_GNU_white.png">
     </span>
     <span style="display:inline-block; vertical-align:middle; font-size: 50px">
 GNU Modula-2
     </span>
   </h1>

   <!-- homepage tab menu -->

   <div id="tabmenu">
     <ul id="tab">
 <li><a href="about.html"><span>About</span></a></li>
 <li><a href="download.html"><span>Download</span></a></li>
 <li><a href="release.html"><span>Latest Release</span></a></li>
 <li class="selected"><a href="license.html"><span>License</span></a></li>
 <li><a href="platforms.html"><span>Platforms</span></a></li>
 <li><a href="users.html"><span>Users</span></a></li>
     </ul>
   </div>
 </div>
```

```
<div id="page">
 <div class="plain">
   <h2>The home of the GNU Modula-2 compiler</h2>
   <p>The compiler is held under the GNU Public Licence v3.</p>
   <p>The ISO and PIM libraries are under the GPL v3.1 with GCC runtime extensions.  Copies of the
     licences can be found on the
     <a href="http://www.gnu.org/licenses">GNU</a>
 web site.</p>
 </div>
</div>
</body>
</html>
```

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1.1194 bcel 6.7.0

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1.1195 blang-semver 4.0.0

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1.1196 xstrings 1.4.0

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
```

```
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseCodeRequest{
 // TODO: Fill request
struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseCodeRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
}
resp,
err := c.TestIamPermissions(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

```
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
```

```
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.DeleteLicenseRequest{
 //
TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
}
op, err := c.Delete(ctx, req)
if err != nil {
 // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
 // TODO: Handle error.
}
}

func ExampleLicensesClient_Get() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
}
resp,
err := c.Get(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
```

```
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
```

```
 // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
 }
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range
 values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
```

```
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown
 in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
// Copyright 2022 Google LLC
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```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "math"
 "net/http"
 "net/url"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
```

```
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete:            []gax.CallOption{},
  Get:               []gax.CallOption{},
  GetIamPolicy:      []gax.CallOption{},
  Insert:            []gax.CallOption{},
  List:              []gax.CallOption{},
  SetIamPolicy:      []gax.CallOption{},
  TestIamPermissions: []gax.CallOption{},
 }
}

//
 internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicensesClient
 is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.
```

```
// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
//
 Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
 exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
```

```
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method
 to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud
 Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}
```

```
// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption)
 (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", versionGo()}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
```

```
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection()
 *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type",
 "application/json"))
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
```

```
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:
       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
```

```
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
```

```
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
 exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type",
 "application/json"))
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers
```

```
 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return
nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
```

```
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v", "project",
url.QueryEscape(req.GetProject())))

 headers
 := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return
 nil
 }, opts...)
 if e != nil {
  return nil, e
```

```
 }
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true,
 DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
  }
  if req != nil && req.MaxResults != nil {
   params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
  }
  if req != nil && req.OrderBy != nil {
   params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
  }
```

```
 if req != nil && req.PageToken != nil {
  params.Add("pageToken", fmt.Sprintf("%v",
req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return
maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
```

```
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial:
 true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
```

```
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings)
 error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest,
 opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
```

```
 return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown:
true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
```

```
  return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
 items    []*computepb.License
 pageInfo *iterator.PageInfo
 nextFunc func() error

 //
 Response is the raw response for the current page.
 // It must be cast to the RPC response type.
 // Calling Next() or InternalFetch() updates this value.
 Response interface{}

 // InternalFetch is for use by the Google Cloud Libraries only.
 // It is not part of the stable interface of this package.
 //
 // InternalFetch returns results from a single call to the underlying RPC.
 // The number of results is no greater than pageSize.
 // If there are no more results, nextPageToken is empty and err is nil.
 InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
 return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator)
 Next() (*computepb.License, error) {
 var item *computepb.License
 if err := it.nextFunc(); err != nil {
  return item, err
 }
 item = it.items[0]
 it.items = it.items[1:]
 return item, nil
```

```
}

func (it *LicenseIterator) bufLen() int {
 return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
 b := it.items
 it.items = nil
 return b
}
```

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package compute

import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "net/http"
 "net/url"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
)

var
```

```
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get              []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
 return &LicenseCodesCallOptions{
  Get:              []gax.CallOption{},
  TestIamPermissions: []gax.CallOption{},
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
 (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
```

```
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption) (*computepb.LicenseCode, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context,
 req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
```

```
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx,
 clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go",
 versionGo()}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection returns a connection to the API service.
```

```
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption)
 (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(), req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err
 != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }
```

```
  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq,
 err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
```

```
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path
!= "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}
```

1.1198 libdrm 2.4.113-2~ubuntu0.22.04.1

1.1198.1 Available under license :

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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/include/drm/via_drm.h
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/util/pattern.c
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/util/common.h
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/util/format.h
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/util/format.c
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/util/kms.c
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/util/pattern.h
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/util/kms.h
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/intel/intel_bufmgr_fake.c
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/xf86drmHash.h
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/xf86drmRandom.h
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```
The release criteria for libdrm is essentially "if you need a release,
make one".  There is no designated release engineer or maintainer.
Anybody is free to make a release if there's a certain feature or bug
fix they need in a released version of libdrm.

When new ioctl definitions are merged into drm-next, we will add
support to libdrm, at which point we typically create a new release.
However, this is up to whoever is driving the feature in question.
```

Follow these steps to release a new version of libdrm:

1) Bump the version number in meson.build. We seem to have settled for
   2.4.x as the versioning scheme for libdrm, so just bump the micro
   version.

2) Run `ninja -C builddir/ dist` to generate the tarballs.
   Make sure that the version number of the tarball name in
   builddir/meson-dist/ matches the number you bumped to. Move that
   tarball to the libdrm repo root for the release script to pick
up.

3) Push the updated main branch with the bumped version number:

git push origin main

   assuming the remote for the upstream libdrm repo is called origin.

4) Use the release.sh script from the xorg/util/modular repo to
   upload the tarballs to the freedesktop.org download area and
   create an announce email template. The script takes one argument:
   the path to the libdrm checkout. So, if a checkout of modular is
   at the same level than the libdrm repo:

./modular/release.sh libdrm

   This copies the two tarballs to freedesktop.org and creates
   libdrm-2.4.16.announce which has a detailed summary of the
   changes, links to the tarballs, MD5 and SHA1 sums and pre-filled
   out email headers. Fill out the blank between the email headers
   and the list of changes with a brief message of what changed or
   what prompted this release. Send out the email and you're done!

Found in path(s):
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/RELEASING
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/intel/intel_bufmgr_gem.c
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```
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*    Gareth Hughes <gareth@valinux.com>
*    Keith Whitwell <keith@tungstengraphics.com>
*/
```

Found in path(s):
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/include/drm/radeon_drm.h
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/etnaviv/etnaviv_bo_cache_test.c
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/etnaviv/etnaviv_bo_cache.c
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/amdgpu/vce_tests.c
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/amdgpu/frame.h
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/* xf86drmHash.c -- Small hash table support for integer -> integer mapping
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* Authors: Rickard E. (Rik) Faith <faith@valinux.com>
*
* DESCRIPTION
*
* This file contains a straightforward implementation of a fixed-sized
* hash table using self-organizing linked lists [Knuth73, pp. 398-399] for
* collision resolution.  There are two potentially interesting things
* about this implementation:
*
* 1) The table is power-of-two sized.  Prime sized tables are more
* traditional, but do not have a significant advantage over power-of-two
* sized table, especially when double hashing is not used for collision
* resolution.
*
* 2) The hash computation
 uses a table of random integers [Hanson97,
* pp. 39-41].
*
* FUTURE ENHANCEMENTS
*
* With a table size of 512, the current implementation is sufficient for a
* few hundred keys.  Since this is well above the expected size of the
* tables for which this implementation was designed, the implementation of
* dynamic hash tables was postponed until the need arises.  A common (and
* naive) approach to dynamic hash table implementation simply creates a
* new hash table when necessary, rehashes all the data into the new table,
* and destroys the old table.  The approach in [Larson88] is superior in
* two ways: 1) only a portion of the table is expanded when needed,
* distributing the expansion cost over several insertions, and 2) portions
* of the table can be locked, enabling a scalable thread-safe
* implementation.
*
* REFERENCES
*
* [Hanson97] David R. Hanson.  C Interfaces and Implementations:
* Techniques for Creating Reusable Software.  Reading, Massachusetts:
 * Addison-Wesley, 1997.
*
* [Knuth73] Donald E. Knuth. The Art of Computer Programming.  Volume 3:
* Sorting and Searching.  Reading, Massachusetts: Addison-Wesley, 1973.
*
* [Larson88] Per-Ake Larson. "Dynamic Hash Tables".  CACM 31(4), April
* 1988, pp. 446-457.
*
```

*/

Found in path(s):
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/xf86drmHash.c
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/hash.c
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/omap/omap_drmif.h
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/omap/omap_drm.h
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/radeon/radeon_surface.c
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/etnaviv/write_bmp.c
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/amdgpu/bo_tests.c
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/amdgpu/basic_tests.c
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/amdgpu/amdgpu_test.c
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/amdgpu/cs_tests.c
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/amdgpu/amdgpu_test.h
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/amdgpu/hotunplug_tests.c
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Contributing to libdrm
==========

Submitting Patches

Patches should be sent to dri-devel@lists.freedesktop.org, using git
send-email. For patches only touching driver specific code one of the driver
mailing lists (like amd-gfx@lists.freedesktop.org) is also appropriate. See git
documentation for help:

http://git-scm.com/documentation

Since dri-devel is a very busy mailing list please use --subject-prefix="PATCH
libdrm" to make it easier to find libdrm patches. This is best done by running

  git config --local format.subjectprefix "PATCH libdrm"

The first line of a commit message should contain a prefix indicating what part
is affected by the patch followed by one sentence that describes the change. For
examples:

  amdgpu: Use uint32_t i in amdgpu_find_bo_by_cpu_mapping

The body of the commit message should describe what the patch changes and why,
and also note any particular
 side effects. For a recommended reading on
writing commit messages, see:

http://who-t.blogspot.de/2009/12/on-commit-messages.html

Your patches should also include a Signed-off-by line with your name and email
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S-o-b's by them (and/or whomever gave the patch to you.) The significance of
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We won't reject patches that lack S-o-b, but it is strongly recommended.

Review and Merging

Patches should have at least one positive review (Reviewed-by: tag) or
indication of approval (Acked-by: tag) before merging. For any code shared
between drivers this is mandatory.

Please note that kernel/userspace API header files
have special rules, see
include/drm/README.

Coding style in the project loosely follows the CodingStyle of the linux kernel:

https://www.kernel.org/doc/html/latest/process/coding-style.html?highlight=coding%20style

Commit Rights

Commit rights will be granted to anyone who requests them and fulfills the
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- Submitted a few (5-10 as a rule of thumb) non-trivial (not just simple
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 drivers, merged patches to those components also count towards the commit
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- Are actively participating on discussions about their work (on the mailing
 list or IRC). This should not be interpreted as a requirement to review other
 peoples patches but just make sure that patch submission isn't one-way
 communication. Cross-review is still highly encouraged.

- Will be regularly contributing further patches. This
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- Agrees to use their commit rights in accordance with the documented merge
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To apply for commit rights ("Developer" role in gitlab) send a mail to
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Committers are encouraged to request their commit rights get removed when they
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Code of Conduct

Please be aware the fd.o Code of Conduct also applies to libdrm:

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See the gitlab project owners for contact details of the libdrm maintainers.

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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/nouveau/bufctx.c
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/nouveau/abi16.c
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/nouveau/nouveau.c
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/amdgpu/amdgpu.h
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/amdgpu/amdgpu_vamgr.c
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/amdgpu/amdgpu_device.c
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/* xf86drmRandom.c -- "Minimal Standard" PRNG Implementation
* Created: Mon Apr 19 08:28:13 1999 by faith@precisioninsight.com
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*
* Authors: Rickard E. (Rik) Faith <faith@valinux.com>
*
* DESCRIPTION
*
* This file contains a simple, straightforward implementation of the Park
* & Miller "Minimal Standard" PRNG [PM88, PMS93], which is a Lehmer
* multiplicative linear congruential generator (MLCG) with a period of
* 2^31-1.
*
* This implementation is intended to provide a reliable, portable PRNG
* that is suitable for testing a hash table implementation and for
* implementing skip lists.
*
* FUTURE ENHANCEMENTS
*
* If initial seeds are not selected randomly, two instances of the PRNG
* can be correlated.
  [Knuth81, pp. 32-33] describes a shuffling technique
* that can eliminate this problem.
*
* If PRNGs are used for simulation, the period of the current
* implementation may be too short.  [LE88] discusses methods of combining
* MLCGs to produce much longer periods, and suggests some alternative
* values for A and M.  [LE90 and Sch92] also provide information on
* long-period PRNGs.
*
* REFERENCES
*
* [Knuth81] Donald E. Knuth. The Art of Computer Programming.  Volume 2:
* Seminumerical Algorithms.  Reading, Massachusetts: Addison-Wesley, 1981.
*
* [LE88] Pierre L'Ecuyer. "Efficient and Portable Combined Random Number
* Generators".  CACM 31(6), June 1988, pp. 742-774.
*
* [LE90] Pierre L'Ecuyer. "Random Numbers for Simulation". CACM 33(10,
* October 1990, pp. 85-97.
*
* [PM88] Stephen K. Park and Keith W. Miller. "Random Number Generators:
* Good Ones are Hard to Find". CACM 31(10), October 1988, pp. 1192-1201.
*
* [Sch92] Bruce Schneier. "Pseudo-Ransom Sequence
 Generator for 32-Bit
* CPUs".  Dr. Dobb's Journal 17(2), February 1992, pp. 34, 37-38, 40.
*
* [PMS93] Stephen K. Park, Keith W. Miller, and Paul K. Stockmeyer.  In
* "Technical Correspondence: Remarks on Choosing and Implementing Random
```

* Number Generators". CACM 36(7), July 1993, pp. 105-110.
*
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Found in path(s):
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/xf86drmRandom.c
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/modetest/buffers.c
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/modetest/modetest.c
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/exynos/exynos_fimg2d_perf.c
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/intel/intel_debug.h
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/xf86drmMode.c
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/xf86drmMode.h
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/*
* DRM based vblank test program

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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/vbltest/vbltest.c
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/exynos/fimg2d_reg.h
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/exynos/exynos_fimg2d.c
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/exynos/exynos_fimg2d_test.c
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/amdgpu/amdgpu_vm.c
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/amdgpu/jpeg_tests.c

* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/amdgpu/decode_messages.h
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/intel/test_decode.c
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/*
* Arm Framebuffer Compression (AFBC) modifiers
*
* AFBC is a proprietary lossless image compression protocol and format.
* It provides fine-grained random access and minimizes the amount of data
* transferred between IP blocks.
*
* AFBC has several features which may be supported and/or used, which are
* represented using bits in the modifier. Not all combinations are valid,
* and different devices or use-cases may support different combinations.
*
* Further information on the use of AFBC modifiers can be found in
* Documentation/gpu/afbc.rst
*/
/*
* Arm Fixed-Rate Compression (AFRC) modifiers
*
* AFRC is a proprietary fixed rate image compression protocol and format,
* designed to provide guaranteed bandwidth and memory footprint
* reductions
 in graphics and media use-cases.
*
* AFRC buffers consist of one or more planes, with the same components
* and meaning as an uncompressed buffer using the same pixel format.
*
* Within each plane, the pixel/luma/chroma values are grouped into
* "coding unit" blocks which are individually compressed to a
* fixed size (in bytes). All coding units within a given plane of a buffer
* store the same number of values, and have the same compressed size.
*
* The coding unit size is configurable, allowing different rates of compression.
*
* The start of each AFRC buffer plane must be aligned to an alignment granule which
* depends on the coding unit size.
*
* Coding Unit Size   Plane Alignment
* ----------------   ---------------
* 16 bytes           1024 bytes
* 24 bytes           512  bytes
* 32 bytes           2048 bytes
```

```
*
* Coding units are grouped into paging tiles. AFRC buffer dimensions must be aligned
* to a multiple of the paging tile dimensions.
* The dimensions
 of each paging tile depend on whether the buffer is optimised for
* scanline (SCAN layout) or rotated (ROT layout) access.
*
* Layout   Paging Tile Width   Paging Tile Height
* ------   -----------------   ------------------
* SCAN     16 coding units     4 coding units
* ROT      8  coding units     8 coding units
*
* The dimensions of each coding unit depend on the number of components
* in the compressed plane and whether the buffer is optimised for
* scanline (SCAN layout) or rotated (ROT layout) access.
*
* Number of Components in Plane   Layout      Coding Unit Width   Coding Unit Height
* ------------------------------   ---------   -----------------   ------------------
* 1                               SCAN        16 samples          4 samples
* Example: 16x4 luma samples in a 'Y' plane
*         16x4 chroma 'V' values, in the 'V' plane of a fully-planar YUV buffer
* ------------------------------   ---------   -----------------   ------------------
* 1
                                  ROT         8 samples           8 samples
* Example: 8x8 luma samples in a 'Y' plane
*         8x8 chroma 'V' values, in the 'V' plane of a fully-planar YUV buffer
* ------------------------------   ---------   -----------------   ------------------
* 2                               DONT CARE   8 samples           4 samples
* Example: 8x4 chroma pairs in the 'UV' plane of a semi-planar YUV buffer
* ------------------------------   ---------   -----------------   ------------------
* 3                               DONT CARE   4 samples           4 samples
* Example: 4x4 pixels in an RGB buffer without alpha
* ------------------------------   ---------   -----------------   ------------------
* 4                               DONT CARE   4 samples           4 samples
* Example: 4x4 pixels in an RGB buffer with alpha
*/
/*
* Amlogic Video Framebuffer Compression modifiers
*
* Amlogic uses a proprietary lossless image compression protocol and format
 * for their hardware video codec accelerators, either video decoders or
* video input encoders.
*
* It considerably reduces memory bandwidth while writing and reading
* frames in memory.
*
* The underlying storage is considered to be 3 components, 8bit or 10-bit
* per component YCbCr 420, single plane :
```

```
* - DRM_FORMAT_YUV420_8BIT
* - DRM_FORMAT_YUV420_10BIT
*
* The first 8 bits of the mode defines the layout, then the following 8 bits
* defines the options changing the layout.
*
* Not all combinations are valid, and different SoCs may support different
* combinations of layout and options.
*/
/*
* 64K_S is the same for GFX9/GFX10/GFX10_RBPLUS and hence has GFX9 as canonical
* version.
*/
```

Found in path(s):
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/include/drm/drm_fourcc.h
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-

2.4.113/tests/radeon/rbo.c
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/radeon/radeon_ttm.c
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/radeon/rbo.h
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/amdgpu/handle_table.h
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/amdgpu/handle_table.c
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```
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*
* Authors: Rickard E. (Rik) Faith <faith@valinux.com>
*
* DESCRIPTION
*
* This file contains a straightforward skip list implementation.n
*
* FUTURE ENHANCEMENTS
*
* REFERENCES
*
* [Pugh90] William Pugh.  Skip Lists: A Probabilistic Alternative to
* Balanced Trees. CACM 33(6), June 1990, pp. 668-676.
*
*/
```

Found in path(s):
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/drmsl.c
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/util/Android.mk
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/intel/Android.mk

* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/Android.mk
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```
/* mga_drm.h -- Public header for the Matrox g200/g400 driver -*- linux-c -*-
* Created: Tue Jan 25 01:50:01 1999 by jhartmann@precisioninsight.com
*
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/include/drm/mga_drm.h
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* Christian Gmeiner <christian.gmeiner@gmail.com>
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/etnaviv/etnaviv_gpu.c
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/etnaviv/etnaviv_cmd_stream_test.c
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/etnaviv/etnaviv_cmd_stream.c
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/etnaviv/etnaviv_2d_test.c
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/etnaviv/etnaviv_pipe.c
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/etnaviv/etnaviv_priv.h
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/radeon/radeon_bo.h
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/exynos/exynos_drm.c
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/vc4/vc4_packet.h
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tegra/private.h
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tegra/tegra.c
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tegra/tegra.h
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/freedreno/freedreno_pipe.c
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-

2.4.113/freedreno/freedreno_ringbuffer.c
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/freedreno/freedreno_bo.c
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/freedreno/freedreno_device.c
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/freedreno/freedreno_drmif.h
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/opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/freedreno/freedreno_ringbuffer.h
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/amdgpu/shader_code_hang.h
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/amdgpu/shader_code_gfx11.h
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/amdgpu/shader_code_gfx10.h
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/amdgpu/shader_code_gfx9.h
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-

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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/amdgpu/syncobj_tests.c
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/amdgpu/vm_tests.c
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/amdgpu/uve_ib.h
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/amdgpu/uvd_enc_tests.c
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/amdgpu/vcn_tests.c
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/amdgpu/deadlock_tests.c

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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/include/drm/vmwgfx_drm.h
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/* amdgpu_drm.h -- Public header for the amdgpu driver -*- linux-c -*-
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* Authors:
* Kevin E. Martin <martin@valinux.com>
* Gareth Hughes <gareth@valinux.com>
* Keith Whitwell <keith@tungstengraphics.com>
*/

Found in path(s):
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/include/drm/amdgpu_drm.h
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/tegra/vic41.h
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/tegra/host1x.h
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/tegra/vic.h
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/tegra/vic40.c
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/tegra/syncpt-wait.c
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/tegra/vic-clear.c

* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/tegra/vic-blit.c
*
 /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/tegra/vic30.h
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/tegra/vic30.c
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/tegra/vic-flip.c
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/tegra/vic42.h
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/tegra/syncpt-timeout.c
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/tegra/vic.c
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/tegra/vic41.c
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/tegra/vic42.c
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/radeon/radeon_cs_space.c
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/intel/i915_pciids.h
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/radeon/radeon_bo_gem.c
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/radeon/radeon_bo_gem.h
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/radeon/radeon_bo.c
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*
* DESCRIPTION
*
* This file contains a straightforward skip list implementation.n
*
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*
* REFERENCES
*
* [Pugh90] William Pugh. Skip Lists: A Probabilistic Alternative to
* Balanced Trees. CACM 33(6), June 1990, pp. 668-676.
*
*/

Found in path(s):
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/xf86drmSL.c
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/ttmtest/src/xf86dri.h
* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/ttmtest/src/xf86dri.c
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/radeon/bof.c
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/etnaviv/state.xml.h
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/amdgpu/amdgpu_bo.c
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/freedreno/kgsl/kgsl_pipe.c
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/freedreno/kgsl/kgsl_bo.c
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/freedreno/kgsl/kgsl_priv.h
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* /opt/cola/permits/1548424904_1675148664.5691304/0/libdrm-2-4-113-orig-tar-xz/libdrm-2.4.113/tests/tegra/drm-test.h
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1.1214 alertmanager 0.25.0

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1.1217 liblzma 5.2.5-2ubuntu1

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1.1218 sysvinit-utils 3.01-1ubuntu1

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```

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
  <program>  Copyright (C) <year>  <name of author>
  This program comes with ABSOLUTELY
 NO WARRANTY; for details type `show w'.
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  under certain conditions; type `show c' for details.
```

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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Date: Wed, 28 May 2003 10:55:44 -0700
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1.1238 envtpl 0.7.2

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1.1239 just-diff-apply 5.5.0

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1.1241 x-net 0.7.0

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1.1242 x-sys 0.5.0

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1.1244 commons-fileupload 1.5

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1.1245 package-url-packageurl-go 0.1.1-0.20220428063043-89078438f170

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1.1246 tonistiigi-go-archvariant 1.0.0

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1.1247 jemalloc 5.3.0

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1.1248 lshw 02.19.git.2021.06.19.996aaad9c7-2build1

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1.1249 cyrus-sasl 2.1.27+dfsg2-3ubuntu1.2

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* Rob Earhart
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1.1250 snake-yaml 2.0

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* A Base64 encoder/decoder.
*
* <p>
* This class is used to encode and decode data in Base64 format as described in RFC 1521.
*
* <p>
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* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/external/biz/base64Coder/Base64Coder.java

1.1251 msgp 1.1.8

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1.1254 spdx-correct 3.2.0

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1.1257 libhttp-negotiate-perl 6.01-1

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1.1259 libsemanage-common 3.3-1build2

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1.1261 klauspost-compress 1.16.0

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1.1263 go-toml 1.9.5

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1.1264 json-java 20131018

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1.1270 tomb 1.0.0-20141024135613-dd632973f1e7

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1.1271 jackson-annotations 2.14.2

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers.

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1.1272 libfuse3-3 3.10.5-1build1

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1.1277 selinux 3.0-1build2

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1.1278 go-ntlmssp 0.0.0-20221128193559-754e69321358

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1.1279 just-diff 6.0.2

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1.1280 golang-genproto 0.0.0-20230410155749-daa745c078e1

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1.1281 x-text 0.9.0

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1.1282 lwip 4.14.03

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*
* Author: Adam Dunkels <adam@sics.se>
*
*/
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1.1283 sudo 1.9.9-1ubuntu2.4

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The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
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Boardman, Spider
Bos, Sander
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
Cheloha, Scott
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
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Faigon, Ariel
Farrell, Brian
Fobes, Steve
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Gerraty, Simon J.
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Hayman, Randy M.
Henke, Joachim
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Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
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Juhani, Timo
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McLaughlin, Tom
Makey, Jeff
Mallayya, Sangamesh
Manner, Rbert
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
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Miller, Todd C.
Minier, Loc
Moffat, Darren
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Rowe, William A., Jr.
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Schoenfeld, Patrick
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Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

Albuquerque, Pedro

Blttermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
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Hansen, Joe
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Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keeci, Mehmet
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Kramer, Jakob
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Margeviius, Algimantas
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Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio

r, Balzs
Uranga, Mikel Olasagasti
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1.1291 anchore-go-struct-converter 0.0.0-20221118182256-c68fdcfa2092

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1.1292 golang-org-x-exp 0.0.0-20230425010034-47ecfdc1ba53

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1.1293 jackson-databind 2.15.0

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1.1294 x-oauth2 0.7.0

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1.1296 gofrs-uuid 4.4.0+incompatible

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1.1297 lib-pq 1.10.9

1.1297.1 Available under license :

```
//go:build go1.10
// +build go1.10
```

```
package pq

import (
 "context"
 "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
 return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
 c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
//
 on it.
type NoticeHandlerConnector struct {
 driver.Connector
 noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
 c, err := n.Connector.Connect(ctx)
 if err == nil {
  SetNoticeHandler(c, n.noticeHandler)
 }
 return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
 if c, ok := c.(*NoticeHandlerConnector); ok {
```

```
  return c.noticeHandler
 }
 return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
 setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  c.noticeHandler = handler
  return c
 }
 return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
```

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1.1298 joda-time 2.12.5

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1.1299 racksec-srslog 0.0.0-20180709174129-a4725f04ec91

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#
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docs/GPLv2.TXT
#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
```

src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
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1.1313 lto-disabled-list 24

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1.1314 python3-click 8.0.3-1

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==========
click-contrib
==========

As the userbase of Click grows, more and more major feature requests pop up in
Click's bugtracker. As reasonable as it may be for those features to be bundled
with Click instead of being a standalone project, many of those requested
features are either highly experimental or have unproven practical use, while
potentially being a burden to maintain.

This is why click-contrib_ exists. The GitHub organization is a collection of
possibly experimental third-party packages whose featureset does not belong
into Click, but also a playground for major features that may be added to Click
in the future. It is also meant to coordinate and concentrate effort on writing
third-party extensions for Click, and to ease the effort of searching for such
extensions. In that sense it could be described as a low-maintenance
alternative to extension repositories of other frameworks.

Please
 note that the quality and stability of those packages may be different
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1.1315 python-tz 2022.1-1ubuntu0.22.04.1

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1.1316 python3-itsdangerous 2.1.0-1

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1.1317 python3-tz 2022.1-1ubuntu0.22.04.1

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1.1318 klog 1.0.0

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1.1319 githubcomgooglegofuzz 1.1.0

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1.1338 githubcomgregjoneshttpcache 0.0.0-20190611155906-901d90724c79

1.1338.1 Available under license :

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1.1339 circbuf 0.0.0-20190214190532-5111143e8da2

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1.1340 libcrack 2.9.6-3.4build4

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the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
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Discussion thread from mailing list archive, with approval from everyone actively
involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=

r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.=20

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan
wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20

GPL-2 ... it was a modified artistic license ... i didnt notice the license=
=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel]
cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> directly
> > and see if he wants to relicense his code as LGPL... but at this
> point,
> > it was enough to just get it consistent and documented as to what
> it was
> > released under. This wasn't actually a license change, just a
> > clarification of the licensing that was already in place.

>=20
> the original license (before moving to sourceforge -- aka, 2.7) was
> not
> GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
> change until it was mentioned in the latest notes.
>=20
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library
to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I
think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional
code, so whatever licensing y'all come up with is fine
> > by me.
>
> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done

> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL...
>
> My apologies for not chiming in in anything resembling a reasonable
> timeframe.
>
> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using
the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?
-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October
2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we

> > make the change now ?
>
> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address
that was used at the time. For any future emails regarding this, please
use nneul@neulinger.org.

From
alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from
[82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)

id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length:
585
Lines: 21

>
> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.1341 go-version 1.6.0

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1.1342 githubcommiekgdns 1.1.41

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1.1343 githubcommitchellhmapstructure 1.5.0

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1.1344 githubcommattngoisatty 0.0.17

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1.1345 spf13-cast 1.5.0

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1.1346 x-time 0.1.0

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1.1347 spf13-jwalterweatherman 1.1.0

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1.1348 githubcomgoopenapijsonreference 0.20.0

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import: ../../../../fossene/db/schema/thing.yml
fields:

site: string
author: root

1.1350 term 0.5.0

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1.1363 klog 2.30.0

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1.1364 k8s-io-kube-openapi 0.0.0-20211115234752-e816edb12b65

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
```

```
}
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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
 license := License{Name: "the name", URL: "the url"}
 const licenseJSON = `{"name":"the name","url":"the url"}`
 const licenseYAML = "name: the name\nurl: the url\n"

 assertSerializeJSON(t, license, licenseJSON)
 assertParsesJSON(t, licenseJSON, license)
}
```

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1.1365 spf13-cast 1.3.1

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1.1367 go.opentelemetry.io/otel/trace 1.11.2

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1.1368 githubcomimdariomergo 0.3.13

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

1.1369 go-uber-org-atomic 1.10.0

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1.1370 stretchr-testify 1.8.1

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1.1373 browser 0.0.0-20210911075715-681adbf594b8

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1.1374 flock 0.8.1

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

1.1376 term 0.8.0

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1.1377 google-golang-org-grpc 1.52.3

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you
want to do, use the GNU Library General
Public License instead of this License.
This package was debianised by Steve McIntyre
<stevem@chiark.greenend.org.uk>, finishing on Sun 7th October 2001.
The maintainership was transfered in August 2003 to Andreas Barth
<aba@not.so.argh.org>, first as cooperative maintainership and
sponsored by Steve.

Packaging and keeping the package current is not simple, for details see
README.Debian. We consider http://netpbm.alioth.debian.org/ the
technical upstream, and this release can be exported out of alioth by
cvs -z3 -d:pserver:anonymous@cvs.alioth.debian.org:/cvsroot/netpbm export \
-r debian-9-25-2 netpbm

Copyright:
==========

Netpbm has a very complicated licensing setup, as it is a collection
of hundreds of small utility programs, each with an individual
copyright/license. From inspection of the source and documentation in
the package, I believe the following programs are DFSG-free. They have
a variety of licenses, which I have summarised below for convenience.

A: The most common netpbm license - clearly the original
from Jef Poskanzer:

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documentation for any purpose and without fee is hereby granted, provided
that the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation. This software is provided "as is" without express or
implied warranty.

The core libp[gbnp]m library code all also seems to follow this license.

B: The standard BSD license. See /usr/share/common-licenses/BSD

C: GNU General Public License v2. See /usr/share/common-licenses/GPL.

D: The Independent JPEG Group license:

Permission is hereby granted to use, copy, modify, and distribute this
software (or portions thereof) for any purpose, without fee, subject to these
conditions:
(1) If any part of the source code for this software is distributed, then this
README file must be included, with this copyright and no-warranty notice
unaltered; and any additions, deletions, or changes to the original files
must be clearly indicated in accompanying documentation.
(2) If only executable code is distributed, then the accompanying
documentation must state that "this software is based in part on the work of
the Independent JPEG Group".
(3) Permission for use of this software is granted only if the user accepts
full responsibility for any undesirable consequences; the authors accept
NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code,
not just to the unmodified library. If you use our work, you ought to
acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name
in advertising or publicity relating to this software or products derived from
it. This software may be referred to only as "the Independent JPEG Group's
software".

We specifically permit and encourage
the use of this software as the basis of
commercial products, provided that all warranty or liability claims are
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preserved on all copies.

There is no warranty or other guarantee of fitness for this software,
it is provided solely "as is". Bug reports or fixes may be sent
to the author, who may or may not act on them as he desires.

You may not include this software in a program or other software product
without supplying the source, or without informing the end-user that the
source is available for no extra charge.

If you modify this software, you should include a notice giving the
name of the person performing the modification, the date of modification,
and the reason for such modification.

F: The program and documentation may be freely distributed
by anyone in source
or binary format. Please clearly note any changes.

G: Public domain:

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H: Public domain, slightly different wording:

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H1: Public domain, even another wording:

Contributed to the public domain.

H2: Public domain, even another wording:

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I: A variation on the BSD license

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DAMAGES
OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Programs actually included in this package:

411toppm: (B) 2001 Steve Allen <sla@alumni.caltech.edu>
anytopnm: (A) 1991 Jef Poskanzer
asciitopgm: (A) 1989 Wilson H. Bent, Jr
atktopbm: (A) 1991 Bill Janssen
bioradtopgm: (A) 1993 Oliver Trepte <oliver@fysik4.kth.se>
bmptopnm: (A) 1992 David W. Sanderson (as bmptoppm)
brushtopbm: (A) 1988 Jef Poskanzer
cmuwmtopbm: (A) 1989 Jef Poskanzer
eyuvtoppm: (B) 1995 The Regents of the University of California
fiascotopnm: (C) 1994-2000 Ullrich Hafner <hafner@bigfoot.de>
fitstopnm: (A) 1989 Jef Poskanzer
fstopgm: (A) 1989 Jef Poskanzer
g3topbm: (A) 1989 Paul Haeberli <paul@manray.sgi.com>
gemtopnm:
(A) 1988 Diomidis D. Spinellis
giftopnm: (A) 1990-1993 David Koblas <koblas@netcom.com>
gouldtoppm: (A) 1990 Stephen P. Lesniewski
hipstopgm: (A) 1989 Jef Poskanzer
icontopbm: (A) 1988 Jef Poskanzer
ilbmtoppm: (A) 1989 Jef Poskanzer
imgtoppm: (A) 1989 Jef Poskanzer
jpegtopnm: (D) 1991-2000 Thomas G. Lane, Bryan Henderson
leaftoppm: (A) 1994 Bill O'Donnell
lispmtopgm: (A) 1988 Jef Poskanzer, Jamie Zawinski
macptopbm: (A) 1988 Jef Poskanzer
mdatopbm: (C) 1999 John Elliott <jce@seasip.demon.co.uk>
mgrtopbm: (A) 1989 Jef Poskanzer
mtvtoppm: (A) 1989 Jef Poskanzer
neotoppm: (D) 2001 Teemu Hukkanen <tjhukkan@iki.fi>
palmtopnm: (A) 1995-2000 Ian Goldberg, Bill Janssen
pamcut: (A) 1989 Jef Poskanzer
pamdeinterlace (H1) 2001 Bryan Henderson
pamdice (H1) 2001 Bryan Henderson
pamfile: (A) 1991 Jef Poskanzer
pamoil:
(A) 1990 Wilson Bent <whb@hoh-2.att.com>
pamstack (H1) 2002 Bryan Henderson
pamstretch (C) 1998,2000 Russell Marks (as pnminterp)
pamstretch-gen (H1) 1999 Russell Marks (as pnminterp-gen)

pbmclean: (A) 1989-2001 Jef Poskanzer, Angus Duggan, Michael Sternberg
pbmlife: (A) 1988-1991 Jef Poskanzer
pbmmake: (A) 1988 Jef Poskanzer
pbmmask: (A) 1989-1991 Jef Poskanzer
pbmpage: (C) 1998 Tim Norman
pbmpscale: (A) 1989-1990 Jef Poskanzer, Angus Duggan
pbmreduce: (A) 1989 Jef Poskanzer
pbmtextps: (A) 2002 James McCann
pbmtext: (A) 1991 Jef Poskanzer
pbmto10x: (A) 1990-1994 Ken Yap
pbmtoascii: (A) 1988-1992 Jef Poskanzer
pbmtoatk: (A) 1991 Bill Janssen
pbmtobbnbg: (A) 1989 Mike Parker
pbmtocmuwm: (A) 1989 Jef Poskanzer
pbmtoepsi: (A) 1988 Jef Poskanzer
pbmtoepson: (A) 1990 Jef Poskanzer, John Tiller <tiller@galois.msfc.nasa.gov>
pbmtog3:
(A) 1989 Paul Haeberli <paul@manray.sgi.com>
pbmtogem: (A) 1988 Jef Poskanzer, David Beckemeyer
pbmtogo: (A) 1988-1989 Jef Poskanzer, Michael Haberler, Bo Thide'
pbmtoicon: (A) 1988 Jef Poskanzer
pbmtolj: (A) 1988 Jef Poskanzer, Michael Haberler
pbmtomacp: (A) 1988 Douwe vand der Schaaf
pbmtomda: (C) 1999 John Elliott <jce@seasip.demon.co.uk>
pbmtomgr: (A) 1989 Jef Poskanzer
pbmtonokia: (A) 2001 OMS Open Media System GmbH, Tim Rhsen <tim.ruehsen@openmediasystem.de>
pbmtopgm: (A) 1989-1990 Jef Poskanzer, Angus Duggan
pbmtopi3: (A) 1988 David Beckemeyer and Jef Poskanzer
pbmtoplot: (A) 1990 Arthur David Olson
pbmtoppa: (C) 1998 Tim Norman
pbmtopsg3: (C) 2001 Kristof Koehler <kristof@fachschaft.physik.uni-karlsruhe.de>
pbmtoptx: (A) 1988 Jef Poskanzer
pbmtowbmp: (A) 1999 Terje Sannum <terje@looplab.com>
pbmtox10bm: (A) 1988 Jef Poskanzer
pbmtoxbm:
(A) 1988 Jef Poskanzer
pbmtoybm: (A) 1991 Jamie Zawinski and Jef Poskanzer
pbmtozinc: (A) 1988 James Darrell McCauley <jdm5548@diamond.tamu.edu>, Jef Poskanzer
pbmupc: (A) 1988 Jef Poskanzer
pcxtoppm: (A) 1990 Michael Davidson
pgmbentley: (A) 1990 Wilson Bent <whb@hoh-2.att.com>
pgmcrater: (H) 1989 John Walker <kelvin@autodesk.com>
pgmedge: (A) 1989 Jef Poskanzer
pgmenhance: (A) 1989-1991 Jef Poskanzer
pgmhist: (A) 1989 Jef Poskanzer
pgmkernel: (A) 1992 Alberto Accomazzi, Smithsonian Astrophysical Observatory
pgmnoise: (A) 1993 Frank Neumann
pgmramp: (A) 1989 Jef Poskanzer

pgmslice: (C) 2000 Jos Dingjan <jos@tuatha.org>
pgmtexture: (A) 1991 Texas Agricultural Experiment Station, James Darrell McCauley
pgmtofs: (A) 1991 Jef Poskanzer
pgmtolispm: (A) 1991 Jamie Zawinski and Jef Poskanzer
pgmtopbm: (A) 1989 Jef Poskanzer
pgmtoppm:
(A) 1991 Jef Poskanzer
pi1toppm: (A) 1991 Steve Belczyk <seb3@gte.com> and Jef Poskanzer
pi3topbm: (A) 1988 David Beckemeyer and Diomidis D. Spinellis
pjtoppm: (A) 1990 Christos Zoulas <christos@ee.cornell.edu>
pngtopnm: (A) 1995-1998 Alexander Lehmann <alex@hal.rhein-main.de>, Willem van Schaik <willem@schaik.com>
pnmalias: (A) 1992 Alberto Accomazzi, Smithsonian Astrophysical Observatory
pnmarith: (A) 1989-1991 Jef Poskanzer
pnmcat: (A) 1989-1991 Jef Poskanzer
pnmcolormap (A) 1989,1991 Jef Poskanzer
(A) 2001 Bryan Henderson
pnmcomp: (A) 1992 David Koblas
pnmconvol: (A) 1989-1995 Jef Poskanzer, Mike Burns <burns@chem.psu.edu>
pnmcrop: (A) 1988 Jef Poskanzer
pnmcut: (A) 1989 Jef Poskanzer
pnmdepth: (A) 1989-1991 Jef Poskanzer
pnmenlarge: (A) 1989 Jef Poskanzer
pnmfile: (A) 1991 Jef Poskanzer
pnmflip: (A) 1989
Jef Poskanzer
pnmgamma: (A) 1991 Jef Poskanzer and Bill Davidson
pnmhisteq: (H) 1995 John Walker <kelvin@fourmalib.ch>
pnmhistmap: (A) 1993 Wilson H. Bent, Jr <whb@usc.edu>
pnmindex: (A) 1991 Jef Poskanzer
pnminvert: (A) 1989 Jef Poskanzer
pnmmargin: (A) 1991 Jef Poskanzer
pnmmontage: (A) 2000 Ben Olmstead
pnmnlfilt: (A) 1993 Graeme W. Gill <graeme@labtam.oz.au>
pnmnorm: (A) 1989,1991 Jef Poskanzer (as pgmnorm)
(A) Michael Mauldin (fbnorm-filter in "Fuzzy Pixmap")
(A) Wilson H. Bent, Jr. (whb@usc.edu) (as ppmnorm)
(A) 2002 Bryan Henderson
pnmpad: (A) 1989 Jef Poskanzer
(A) 1990 Angus Duggan
(A) 2002 Martin van Beilen
pnmpaste: (A) 1989 Jef Poskanzer
pnmpsnr: (C) 1994-2000 Ullrich Hafner <hafner@bigfoot.de>
pnmquant (H1) 2002 Bryan Henderson
pnmremap (A) 1989,1991
Jef Poskanzer (as ppmquant)
(A) 2001 Bryan Henderson
pnmrotate: (A) 1989-1991 Jef Poskanzer

pnmscale: (A) 1989-1991 Jef Poskanzer
pnmscalefixed: (A) 1989-1991 Jef Poskanzer
pnmshear: (A) 1989-1991 Jef Poskanzer
pnmsmooth: (A) 1984 Mike Burns <burns@chem.psu.edu>
pnmsplit: (H1) 2000 Bryan Henderson <bryanh@giraffe-data.com>
pnmtile: (A) 1989 Jef Poskanzer
pnmtoddif: (A) 1992 Digital Equipment Corporation, Burkhard Neidecker-Lutz
pnmtofiasco: (C) 1994-2000 Ullrich Hafner <hafner@bigfoot.de>
pnmtofits: (C) 1989 Wilson H. Bent <whb@hoh-2.att.com>
pnmtojpeg: (D) 1991-2001 Thomas G. Lane, Bryan Henderson
pnmtopalm: (A) 1995-2000 Ian Goldberg, Bill Janssen
pnmtoplainpnm: (A) 1991 Jef Poskanzer
pnmtopng: (A) 1995-1998 Alexander Lehmann <alex@hal.rhein-main.de>, Willem van Schaik <willem@schaik.com>
pnmtops: (A) 1989 Jef Poskanzer
pnmtorast: (A) 1989-1991 Jef Poskanzer
pnmtorle:
(E) 1994 Minnesota Supercomputer Center, Inc, Wes Barris <wes@msc.edu>
pnmtosgi: (A) 1994 Ingo Wilken <Ingo.Wilken@informatik.uni-oldenburg.de>
pnmtosir: (A) 1991 Marvin Landis
pnmtotiff: (A) 1990 Sun Microsystems, Inc, Jef Poskanzer
pnmtotiffcmyk: (C) 1999 Andrew Cooke (Jara Software) <jara@andrewcooke.free-online.co.uk>
pnmtoxwd: (A) 1989-1991 Jef Poskanzer
ppm3d: (A) 1989 Jef Poskanzer
ppmbrighten: (A) 1989-1990 Jef Poskanzer, Brian Moffet
ppmchange: (A) 1991 Wilson H. Bent, Jr
ppmcie: (H) 1995 John Walker <kelvin@fourmilab.ch>
ppmcolormask: (H1) 2000 Bryan Henderson <bryanh@giraffe-data.com>
ppmcolors (H1) 2001 Bryan Henderson
ppmdim: (A) 1993 Frank Neumann
ppmdist: (A) 1993 Dan Stromberg
ppmdither: (A) 1991 Christos Zoulas
ppmfade: (?) 1994 Minnesota Supercomputer Center, Inc, Wes Barris <wes@msc.edu>
ppmflash: (A) 1993 Frank
Neumann
ppmforge: (H) 1989 John Walker <kelvin@autodesk.com>
ppmhist: (A) 1989 Jef Poskanzer
ppmlabel: (H) 1995 John Walker <kelvin@fourmilab.ch>
ppmmake: (A) 1989 Jef Poskanzer
ppmmix: (A) 1993 Frank Neumann
ppmntsc: (E) 1993 Minnesota Supercomputer Center, Inc, Wes Barris <wes@msc.edu>
ppmpat: (A) 1989-1991 Jef Poskanzer
ppmquant: (A) 1989-1991 Jef Poskanzer
ppmquantall: (A) 1991 Jef Poskanzer
ppmqvga: (F) 1991-1992 Bill Davidsen, Lyle Rains <lrains@netcom.com>
ppmrainbow: (H2) 2001 Arjen Bax <arjen.bax@cmg.nl>
ppmrelief: (A) 1990 Wilson H. Bent, Jr
ppmshadow: (G) 1997 John Walker <kelvin@fourmilab.ch>

ppmshift: (A) 1993 Frank Neumann
ppmspread: (A) 1993 Frank Neumann
ppmtoacad: (H) 1991 John Walker <kelvin@autodesk.com>
ppmtobmp: (A) 1992 David W. Sanderson
ppmtoeyuv: (B) 1995 The Regents of the University of California
ppmtoicr:
(A) 1990 Kanthan Pillay <svpillay@Princeton.EDU>
ppmtoilbm: (A) 1989 Jef Poskanzer
ppmtoleaf: (A) 1994 Bill O'Donnell
ppmtolj: (A) 2000 Jonathan Melvin <jonathan.melvin@heywood.co.uk>
ppmtomap: (A) 1989 Jef Poskanzer
ppmtomitsu: (A) 1992-1993 S.Petra Zeidler
ppmtompeg: (B) 1995 The Regents of the University of California
ppmtoneo: (D) 2001 Teemu Hukkanen <tjhukkan@iki.fi>
ppmtopcx: (B) 1994 Ingo Wilken <Ingo.Wilken@informatik.uni-oldenburg.de>
ppmtopgm: (A) 1989 Jef Poskanzer
ppmtopi1: (A) 1991 Jef Poskanzer and Steve Belczyk
ppmtopict: (A) 1990 Ken Yap <ken@cs.rochester.edu>
ppmtopj: (A) 1990 Christos Zoulas <christos@ee.cornell.edu>
ppmtopuzz: (A) 1991 Jef Poskanzer
ppmtorgb3: (A) 1991 Jef Poskanzer
ppmtosixel: (A) 1991 Rick Vinci
ppmtotga: (A) 1989-1991 Mark Shand and Jef Poskanzer
ppmtouil: (A) 1990 Mark W. Snitily,
Jef Poskanzer
ppmtowinicon: (A) 2000 Lee Benfield <lee@recoil.org>
ppmtoxpm: (A) 1990 Mark W. Snitily
ppmtoyuv: (A) 1987-1991 Abekas Video Systems Inc, DHD PostImage Inc
ppmtoyuvsplit: (A) 1993 Andre Beck <Andre_Beck@IRS.Inf.TU-Dresden.de>
ppmtv: (A) 1993 Frank Neumann
psidtopgm: (A) 1989 Jef Poskanzer
pstopnm: (I) 1992 Smithsonian Astrophysical Observatory, Alberto Accomazzi
qrttoppm: (A) 1989 Jef Poskanzer
rasttopnm: (A) 1989-1991 Jef Poskanzer
rawtopgm: (A) 1989 Jef Poskanzer
rawtoppm: (A) 1991 Jef Poskanzer
rgb3toppm: (A) 1991 Jef Poskanzer
rletopnm: (E) 1994 Minnesota Supercomputer Center, Inc, Wes Barris <wes@msc.edu>
sbigtopgm: (A) 1998 John Walker
sgitopnm: (A) 1994 Ingo Wilken <Ingo.Wilken@informatik.uni-oldenburg.de>
sirtopnm: (A) 1991 Marvin Landis
sldtoppm: (H) 1991 John Walker <kelvin@autodesk.com>
spctoppm: (A) 1991
Jef Poskanzer and Steve Belczyk
sputoppm: (A) 1991 Jef Poskanzer and Steve Belczyk
tifftopnm: (A) 1990 Sun Microsystems, Inc, Jef Poskanzer
tgatoppm: (A) 1989 Jef Poskanzer
thinkjettopbm: (A) 2001 W. Eric Norum <eric.norum@usask.ca>

wbmptopbm: (A) 1999 Terje Sannum <terje@looplab.com>
winicontoppm: (A) 2000 Lee Benfield <lee@recoil.org>
xbmtopbm: (A) 1988 Jef Poskanzer
ximtoppm: (A) 1991 Jef Poskanzer
xpmtoppm: (A) 1991 Jef Poskanzer
xvminitoppm: (A) 1993 Ingo Wilken <Ingo.Wilken@informatik.uni-oldenburg.de>
xwdtopnm: (A) 1989-1991 Jef Poskanzer
ybmtopbm: (A) 1988 Jamie Zawinski and Jef Poskanzer
yuvsplittoppm: (A) 1993 Marcel Wijkstra <wijkstra@fwi.uva.nl>
yuvtoppm: (A) 1987-1991 Jef Poskanzer, Abekas Video Systems Inc., DHD PostImage Inc.
zeisstopnm: (A) 1993 Oliver Trepte <oliver@fysik4.kth.se>

The following packages were included in this package, but replaced:
[
bmptoppm: (A) 1992 David W. Sanderson]
[gemtopbm: (A) 1988 Diomidis D. Spinellis]
[pgmnorm: (A) 1989-1991 Jef Poskanzer]
[pnminterp: (C) 1998-2000 Russell Marks <russell.marks@ntlworld.com>]
[pnminterp-gen: (C) 1998-2000 Russell Marks <russell.marks@ntlworld.com>]
[pnmnoraw: (A) 1991 Jef Poskanzer]
[picttoppm: (A) 1989-1993 George Phillips <phillips@cs.ubc.ca> [security]]
[ppmnorm: (A) 1989-1991 Jef Poskanzer, Wilson H. Bent, Jr <whb@usc.edu>]
[ppmsvgalib: (H1) 2002 Bryan Henderson [never included in debian]]

Not distributed due to patent issues:
[jbigtopnm: (C) 2000 Markus Kuhn <mkuhn@acm.org>]
[pnmtojbig: (C) 2000 Markus Kuhn <mkuhn@acm.org>]
filter to create GIFs - patent restricted. (http://www.unisys.com/unisys/lzw/
[ppmtogif: (A) 1989 Jef Poskanzer]

==========
NON-FREE:

The following programs have
restrictions on their use or source:

hpcdtoppm package:
==========
hpcdtoppm pcdindex

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==========
UNKNOWN, SO NOT DISTRIBUTED:

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pamtopnm: No copyright / license text found
pbmto4425: No copyright / license text found
pbmtoln03: No copyright
/ license text found
pbmtolps: No copyright / license text found
pbmtopk: No copyright / license text found
pktopbm: No copyright / license text found
ppmtopjxl: No copyright / license text found
spottopgm: No copyright / license text found
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Most of the components require you to include a copy of their copyright notices and warranty disclaimers in any copies or derivations you distribute.

Another restriction that some of the software has is that in order to have permission to copy it (which includes writing anything derived from it), you must distribute source code for your copy or derivation and propagate the same restriction to people who would copy your derivation. In other words, the price the author wants for the use of his proprietary work is your contribution to the free software cause.

One component prohibits you from selling it or using it in a commercial way: hpcdtoppm.

Some components are contributed
to the public domain.

The copyrights on individual components of this package are detailed at appropriate places within the package.

These security fixes for netpbm are (c) Copyright 2002 Red Hat Inc.
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under the Open Software License v.1 (see file OPENLICENSE).

PATENTS

These are the patents the Netpbm maintainer knows about that relate to
Netpbm. It is basically just information the maintainer has stumbled
over at some point -- no search has been done.

No licenses have been granted by patent owners to the maintainer of
Netpbm. Therefore, if you need a patent to use something in Netpbm,
you need your own license.

A note about patents in general: A patent gives an inventor the
exclusive right to make, sell, or use the invention. If you
independently invent something without knowing that the patent holder
already did, that makes no
difference -- the patent holder still has
the exclusive right. It makes no difference if you give the original
inventor credit. The patent applies to a method, not its expression,
so writing a program from scratch to implement a certain method is
still a patent infringement. Infringing a patent is not a crime per
se, but to the extent that it costs the patent holder money, the
infringer has to make it up.

The original purpose of patents is probably perverted when patents are
applied to things you implement in computer programs. This is one of
the Free Software Foundation's causes. See
<http://www.gnu.org/philosophy.html#laws>.

Unisys owns a patent on LZW compression, which is used by ppmtogif,
and maybe on LZW decompression, which is used by giftoppm. IBM also
owns a patent that may cover the GIF tools. Unisys offers a license
of the patent for trivial use for $5000. Its patent expires in 2003.
Neither company has ever enforced the patent against trivial users of
it. <http://news.cnet.com/news/0-1005-200-1713278.html>
is an
article dated April 18, 2000 on the issue.
<http://www.unisys.com/unisys/lzw/> is Unisys' view of the matter.
For information from another perspective, see
http://www.gnu.org/philosophy/gif.html or http://burnallgifs.org/.

The following Netpbm components may be restricted by this patent:

ppmtogif, giftopnm.

A good substitute for GIF if the patents are a problem is PNG (see pngtopnm, pnmtopng), which was developed with a primary purpose of not using any patented technology.

You can also use the -nolzw option on ppmtogif to avoid using the LZW patent. The images so generated are larger than traditional LZW-compressed GIFs, but any GIF decoder can decode them just the same.

The jbigtopnm and pnmtojbig programs use arithmetic coding patents and other patents covering various aspects of the "front end."

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The Independent JPEG Group's JPEG software
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README for release 6b of 27-Mar-1998

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Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION ROADMAP

This file contains the following sections:

OVERVIEW	General description of JPEG and the IJG software.
LEGAL ISSUES	Copyright, lack of warranty, terms of distribution.
REFERENCES	Where to learn more about JPEG.
ARCHIVE LOCATIONS	Where to find newer versions of this software.
RELATED SOFTWARE	Other stuff you should get.
FILE FORMAT WARS	Software *not* to get.
TO DO	Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.doc	How to configure and install the IJG software.
usage.doc	Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1	Unix-style man pages for programs (same info as usage.doc).
wizard.doc	Advanced usage instructions for JPEG wizards only.
change.log	Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.doc	How to use the JPEG library in your own programs.
example.c	Sample code for calling the JPEG library.

structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the

library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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that you must include source code if you redistribute it. (See the file
ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part
of any program generated from the IJG code, this does not limit you more than
the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf.
It is copyright by the Free Software Foundation
but is freely distributable.
The same holds for its supporting scripts (config.guess, config.sub,
ltconfig, ltmain.sh). Another support script, install-sh, is copyright
by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by
patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot
legally be used without obtaining one or more licenses. For this reason,
support for arithmetic coding has been removed from the free JPEG software.
(Since arithmetic coding provides only a marginal gain over the unpatented
Huffman mode, it is unlikely that very many implementations will support it.)
So far as we are aware, there are no patent restrictions on the remaining
code.

The IJG distribution formerly included code to read and write GIF files.

To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs".

This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that

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REFERENCES

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We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part
2 covers compliance testing methods. Part 1
is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:
Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314
A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz.
There is also a plain text
version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS

The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest

version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/. Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO
=====

The major thrust for v7 will probably be improvement of visual quality.
The current method for scaling the quantization tables is known not to be
very good at low Q values. We
also intend to investigate block boundary
smoothing, "poor man's variable quantization", and other means of improving
quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG
Part 3 extensions --- principally, variable quantization and the SPIFF file
format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

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Programs actually included in this package:

411toppm: (B) 2001 Steve Allen <sla@alumni.caltech.edu>
anytopnm: (A) 1991 Jef Poskanzer
asciitopgm: (A) 1989 Wilson H. Bent, Jr
atktopbm: (A) 1991 Bill Janssen
bioradtopgm: (A) 1993 Oliver Trepte <oliver@fysik4.kth.se>
bmptopnm: (A) 1992 David W. Sanderson (as bmptoppm)
brushtopbm: (A) 1988 Jef Poskanzer

cmuwmtopbm: (A) 1989 Jef Poskanzer
eyuvtoppm: (B) 1995 The Regents of the University of California
fiascotopnm: (C) 1994-2000 Ullrich Hafner <hafner@bigfoot.de>
fitstopnm: (A) 1989 Jef Poskanzer
fstopgm: (A) 1989 Jef Poskanzer
g3topbm: (A) 1989 Paul Haeberli <paul@manray.sgi.com>
gemtopnm:
(A) 1988 Diomidis D. Spinellis
giftopnm: (A) 1990-1993 David Koblas <koblas@netcom.com>
gouldtoppm: (A) 1990 Stephen P. Lesniewski
hipstopgm: (A) 1989 Jef Poskanzer
icontopbm: (A) 1988 Jef Poskanzer
ilbmtoppm: (A) 1989 Jef Poskanzer
imgtoppm: (A) 1989 Jef Poskanzer
jpegtopnm: (D) 1991-2000 Thomas G. Lane, Bryan Henderson
leaftoppm: (A) 1994 Bill O'Donnell
lispmtopgm: (A) 1988 Jef Poskanzer, Jamie Zawinski
macptopbm: (A) 1988 Jef Poskanzer
mdatopbm: (C) 1999 John Elliott <jce@seasip.demon.co.uk>
mgrtopbm: (A) 1989 Jef Poskanzer
mtvtoppm: (A) 1989 Jef Poskanzer
neotoppm: (D) 2001 Teemu Hukkanen <tjhukkan@iki.fi>
palmtopnm: (A) 1995-2000 Ian Goldberg, Bill Janssen
pamcut: (A) 1989 Jef Poskanzer
pamdeinterlace (H1) 2001 Bryan Henderson
pamdice (H1) 2001 Bryan Henderson
pamfile: (A) 1991 Jef Poskanzer
pamoil:
(A) 1990 Wilson Bent <whb@hoh-2.att.com>
pamstack (H1) 2002 Bryan Henderson
pamstretch (C) 1998,2000 Russell Marks (as pnminterp)
pamstretch-gen (H1) 1999 Russell Marks (as pnminterp-gen)
pbmclean: (A) 1989-2001 Jef Poskanzer, Angus Duggan, Michael Sternberg
pbmlife: (A) 1988-1991 Jef Poskanzer
pbmmake: (A) 1988 Jef Poskanzer
pbmmask: (A) 1989-1991 Jef Poskanzer
pbmpage: (C) 1998 Tim Norman
pbmpscale: (A) 1989-1990 Jef Poskanzer, Angus Duggan
pbmreduce: (A) 1989 Jef Poskanzer
pbmtextps: (A) 2002 James McCann
pbmtext: (A) 1991 Jef Poskanzer
pbmto10x: (A) 1990-1994 Ken Yap
pbmtoascii: (A) 1988-1992 Jef Poskanzer
pbmtoatk: (A) 1991 Bill Janssen
pbmtobbnbg: (A) 1989 Mike Parker
pbmtocmuwm: (A) 1989 Jef Poskanzer
pbmtoepsi: (A) 1988 Jef Poskanzer
pbmtoepson: (A) 1990 Jef Poskanzer, John Tiller <tiller@galois.msfc.nasa.gov>

pbmtog3:
(A) 1989 Paul Haeberli <paul@manray.sgi.com>
pbmtogem: (A) 1988 Jef Poskanzer, David Beckemeyer
pbmtogo: (A) 1988-1989 Jef Poskanzer, Michael Haberler, Bo Thide'
pbmtoicon: (A) 1988 Jef Poskanzer
pbmtolj: (A) 1988 Jef Poskanzer, Michael Haberler
pbmtomacp: (A) 1988 Douwe vand der Schaaf
pbmtomda: (C) 1999 John Elliott <jce@seasip.demon.co.uk>
pbmtomgr: (A) 1989 Jef Poskanzer
pbmtonokia: (A) 2001 OMS Open Media System GmbH, Tim Rhsen <tim.ruehsen@openmediasystem.de>
pbmtopgm: (A) 1989-1990 Jef Poskanzer, Angus Duggan
pbmtopi3: (A) 1988 David Beckemeyer and Jef Poskanzer
pbmtoplot: (A) 1990 Arthur David Olson
pbmtoppa: (C) 1998 Tim Norman
pbmtopsg3: (C) 2001 Kristof Koehler <kristof@fachschaft.physik.uni-karlsruhe.de>
pbmtoptx: (A) 1988 Jef Poskanzer
pbmtowbmp: (A) 1999 Terje Sannum <terje@looplab.com>
pbmtox10bm: (A) 1988 Jef Poskanzer
pbmtoxbm:
(A) 1988 Jef Poskanzer
pbmtoybm: (A) 1991 Jamie Zawinski and Jef Poskanzer
pbmtozinc: (A) 1988 James Darrell McCauley <jdm5548@diamond.tamu.edu>, Jef Poskanzer
pbmupc: (A) 1988 Jef Poskanzer
pcxtoppm: (A) 1990 Michael Davidson
pgmbentley: (A) 1990 Wilson Bent <whb@hoh-2.att.com>
pgmcrater: (H) 1989 John Walker <kelvin@autodesk.com>
pgmedge: (A) 1989 Jef Poskanzer
pgmenhance: (A) 1989-1991 Jef Poskanzer
pgmhist: (A) 1989 Jef Poskanzer
pgmkernel: (A) 1992 Alberto Accomazzi, Smithsonian Astrophysical Observatory
pgmnoise: (A) 1993 Frank Neumann
pgmramp: (A) 1989 Jef Poskanzer
pgmslice: (C) 2000 Jos Dingjan <jos@tuatha.org>
pgmtexture: (A) 1991 Texas Agricultural Experiment Station, James Darrell McCauley
pgmtofs: (A) 1991 Jef Poskanzer
pgmtolispm: (A) 1991 Jamie Zawinski and Jef Poskanzer
pgmtopbm: (A) 1989 Jef Poskanzer
pgmtoppm:
(A) 1991 Jef Poskanzer
pi1toppm: (A) 1991 Steve Belczyk <seb3@gte.com> and Jef Poskanzer
pi3topbm: (A) 1988 David Beckemeyer and Diomidis D. Spinellis
pjtoppm: (A) 1990 Christos Zoulas <christos@ee.cornell.edu>
pngtopnm: (A) 1995-1998 Alexander Lehmann <alex@hal.rhein-main.de>, Willem van Schaik <willem@schaik.com>
pnmalias: (A) 1992 Alberto Accomazzi, Smithsonian Astrophysical Observatory
pnmarith: (A) 1989-1991 Jef Poskanzer
pnmcat: (A) 1989-1991 Jef Poskanzer
pnmcolormap (A) 1989,1991 Jef Poskanzer

(A) 2001 Bryan Henderson
pnmcomp: (A) 1992 David Koblas
pnmconvol: (A) 1989-1995 Jef Poskanzer, Mike Burns <burns@chem.psu.edu>
pnmcrop: (A) 1988 Jef Poskanzer
pnmcut: (A) 1989 Jef Poskanzer
pnmdepth: (A) 1989-1991 Jef Poskanzer
pnmenlarge: (A) 1989 Jef Poskanzer
pnmfile: (A) 1991 Jef Poskanzer
pnmflip: (A) 1989
Jef Poskanzer
pnmgamma: (A) 1991 Jef Poskanzer and Bill Davidson
pnmhisteq: (H) 1995 John Walker <kelvin@fourmalib.ch>
pnmhistmap: (A) 1993 Wilson H. Bent, Jr <whb@usc.edu>
pnmindex: (A) 1991 Jef Poskanzer
pnminvert: (A) 1989 Jef Poskanzer
pnmmargin: (A) 1991 Jef Poskanzer
pnmmontage: (A) 2000 Ben Olmstead
pnmnlfilt: (A) 1993 Graeme W. Gill <graeme@labtam.oz.au>
pnmnorm: (A) 1989,1991 Jef Poskanzer (as pgmnorm)
(A) Michael Mauldin (fbnorm-filter in "Fuzzy Pixmap")
(A) Wilson H. Bent, Jr. (whb@usc.edu) (as ppmnorm)
(A) 2002 Bryan Henderson
pnmpad: (A) 1989 Jef Poskanzer
(A) 1990 Angus Duggan
(A) 2002 Martin van Beilen
pnmpaste: (A) 1989 Jef Poskanzer
pnmpsnr: (C) 1994-2000 Ullrich Hafner <hafner@bigfoot.de>
pnmquant (H1) 2002 Bryan Henderson
pnmremap (A) 1989,1991
Jef Poskanzer (as ppmquant)
(A) 2001 Bryan Henderson
pnmrotate: (A) 1989-1991 Jef Poskanzer
pnmscale: (A) 1989-1991 Jef Poskanzer
pnmscalefixed: (A) 1989-1991 Jef Poskanzer
pnmshear: (A) 1989-1991 Jef Poskanzer
pnmsmooth: (A) 1984 Mike Burns <burns@chem.psu.edu>
pnmsplit: (H1) 2000 Bryan Henderson <bryanh@giraffe-data.com>
pnmtile: (A) 1989 Jef Poskanzer
pnmtoddif: (A) 1992 Digital Equipment Corporation, Burkhard Neidecker-Lutz
pnmtofiasco: (C) 1994-2000 Ullrich Hafner <hafner@bigfoot.de>
pnmtofits: (C) 1989 Wilson H. Bent <whb@hoh-2.att.com>
pnmtojpeg: (D) 1991-2001 Thomas G. Lane, Bryan Henderson
pnmtopalm: (A) 1995-2000 Ian Goldberg, Bill Janssen
pnmtoplainpnm: (A) 1991 Jef Poskanzer
pnmtopng: (A) 1995-1998 Alexander Lehmann <alex@hal.rhein-main.de>, Willem van Schaik <willem@schaik.com>
pnmtops: (A) 1989 Jef Poskanzer
pnmtorast: (A) 1989-1991 Jef Poskanzer

pnmtorle:
(E) 1994 Minnesota Supercomputer Center, Inc, Wes Barris <wes@msc.edu>
pnmtosgi: (A) 1994 Ingo Wilken <Ingo.Wilken@informatik.uni-oldenburg.de>
pnmtosir: (A) 1991 Marvin Landis
pnmtotiff: (A) 1990 Sun Microsystems, Inc, Jef Poskanzer
pnmtotiffcmyk: (C) 1999 Andrew Cooke (Jara Software) <jara@andrewcooke.free-online.co.uk>
pnmtoxwd: (A) 1989-1991 Jef Poskanzer
ppm3d: (A) 1989 Jef Poskanzer
ppmbrighten: (A) 1989-1990 Jef Poskanzer, Brian Moffet
ppmchange: (A) 1991 Wilson H. Bent, Jr
ppmcie: (H) 1995 John Walker <kelvin@fourmilab.ch>
ppmcolormask: (H1) 2000 Bryan Henderson <bryanh@giraffe-data.com>
ppmcolors (H1) 2001 Bryan Henderson
ppmdim: (A) 1993 Frank Neumann
ppmdist: (A) 1993 Dan Stromberg
ppmdither: (A) 1991 Christos Zoulas
ppmfade: (?) 1994 Minnesota Supercomputer Center, Inc, Wes Barris <wes@msc.edu>
ppmflash: (A) 1993 Frank
Neumann
ppmforge: (H) 1989 John Walker <kelvin@autodesk.com>
ppmhist: (A) 1989 Jef Poskanzer
ppmlabel: (H) 1995 John Walker <kelvin@fourmilab.ch>
ppmmake: (A) 1989 Jef Poskanzer
ppmmix: (A) 1993 Frank Neumann
ppmntsc: (E) 1993 Minnesota Supercomputer Center, Inc, Wes Barris <wes@msc.edu>
ppmpat: (A) 1989-1991 Jef Poskanzer
ppmquant: (A) 1989-1991 Jef Poskanzer
ppmquantall: (A) 1991 Jef Poskanzer
ppmqvga: (F) 1991-1992 Bill Davidsen, Lyle Rains <lrains@netcom.com>
ppmrainbow: (H2) 2001 Arjen Bax <arjen.bax@cmg.nl>
ppmrelief: (A) 1990 Wilson H. Bent, Jr
ppmshadow: (G) 1997 John Walker <kelvin@fourmilab.ch>
ppmshift: (A) 1993 Frank Neumann
ppmspread: (A) 1993 Frank Neumann
ppmtoacad: (H) 1991 John Walker <kelvin@autodesk.com>
ppmtobmp: (A) 1992 David W. Sanderson
ppmtoeyuv: (B) 1995 The Regents of the University of California
ppmtoicr:
(A) 1990 Kanthan Pillay <svpillay@Princeton.EDU>
ppmtoilbm: (A) 1989 Jef Poskanzer
ppmtoleaf: (A) 1994 Bill O'Donnell
ppmtolj: (A) 2000 Jonathan Melvin <jonathan.melvin@heywood.co.uk>
ppmtomap: (A) 1989 Jef Poskanzer
ppmtomitsu: (A) 1992-1993 S.Petra Zeidler
ppmtompeg: (B) 1995 The Regents of the University of California
ppmtoneo: (D) 2001 Teemu Hukkanen <tjhukkan@iki.fi>
ppmtopcx: (B) 1994 Ingo Wilken <Ingo.Wilken@informatik.uni-oldenburg.de>
ppmtopgm: (A) 1989 Jef Poskanzer

ppmtopi1: (A) 1991 Jef Poskanzer and Steve Belczyk
ppmtopict: (A) 1990 Ken Yap <ken@cs.rochester.edu>
ppmtopj: (A) 1990 Christos Zoulas <christos@ee.cornell.edu>
ppmtopuzz: (A) 1991 Jef Poskanzer
ppmtorgb3: (A) 1991 Jef Poskanzer
ppmtosixel: (A) 1991 Rick Vinci
ppmtotga: (A) 1989-1991 Mark Shand and Jef Poskanzer
ppmtouil: (A) 1990 Mark W. Snitily,
Jef Poskanzer
ppmtowinicon: (A) 2000 Lee Benfield <lee@recoil.org>
ppmtoxpm: (A) 1990 Mark W. Snitily
ppmtoyuv: (A) 1987-1991 Abekas Video Systems Inc, DHD PostImage Inc
ppmtoyuvsplit: (A) 1993 Andre Beck <Andre_Beck@IRS.Inf.TU-Dresden.de>
ppmtv: (A) 1993 Frank Neumann
psidtopgm: (A) 1989 Jef Poskanzer
pstopnm: (I) 1992 Smithsonian Astrophysical Observatory, Alberto Accomazzi
qrttoppm: (A) 1989 Jef Poskanzer
rasttopnm: (A) 1989-1991 Jef Poskanzer
rawtopgm: (A) 1989 Jef Poskanzer
rawtoppm: (A) 1991 Jef Poskanzer
rgb3toppm: (A) 1991 Jef Poskanzer
rletopnm: (E) 1994 Minnesota Supercomputer Center, Inc, Wes Barris <wes@msc.edu>
sbigtopgm: (A) 1998 John Walker
sgitopnm: (A) 1994 Ingo Wilken <Ingo.Wilken@informatik.uni-oldenburg.de>
sirtopnm: (A) 1991 Marvin Landis
sldtoppm: (H) 1991 John Walker <kelvin@autodesk.com>
spctoppm: (A) 1991
Jef Poskanzer and Steve Belczyk
sputoppm: (A) 1991 Jef Poskanzer and Steve Belczyk
tifftopnm: (A) 1990 Sun Microsystems, Inc, Jef Poskanzer
tgatoppm: (A) 1989 Jef Poskanzer
thinkjettopbm: (A) 2001 W. Eric Norum <eric.norum@usask.ca>
wbmptopbm: (A) 1999 Terje Sannum <terje@looplab.com>
winicontoppm: (A) 2000 Lee Benfield <lee@recoil.org>
xbmtopbm: (A) 1988 Jef Poskanzer
ximtoppm: (A) 1991 Jef Poskanzer
xpmtoppm: (A) 1991 Jef Poskanzer
xvminitoppm: (A) 1993 Ingo Wilken <Ingo.Wilken@informatik.uni-oldenburg.de>
xwdtopnm: (A) 1989-1991 Jef Poskanzer
ybmtopbm: (A) 1988 Jamie Zawinski and Jef Poskanzer
yuvsplittoppm: (A) 1993 Marcel Wijkstra <wijkstra@fwi.uva.nl>
yuvtoppm: (A) 1987-1991 Jef Poskanzer, Abekas Video Systems Inc., DHD PostImage Inc.
zeisstopnm: (A) 1993 Oliver Trepte <oliver@fysik4.kth.se>

The following packages were included in this package, but replaced:
[

bmptoppm: (A) 1992 David W. Sanderson]
[gemtopbm: (A) 1988 Diomidis D. Spinellis]
[pgmnorm: (A) 1989-1991 Jef Poskanzer]
[pnminterp: (C) 1998-2000 Russell Marks <russell.marks@ntlworld.com>]
[pnminterp-gen: (C) 1998-2000 Russell Marks <russell.marks@ntlworld.com>]
[pnmnoraw: (A) 1991 Jef Poskanzer]
[picttoppm: (A) 1989-1993 George Phillips <phillips@cs.ubc.ca> [security]]
[ppmnorm: (A) 1989-1991 Jef Poskanzer, Wilson H. Bent, Jr <whb@usc.edu>]
[ppmsvgalib: (H1) 2002 Bryan Henderson [never included in debian]]

Not distributed due to patent issues:
[jbigtopnm: (C) 2000 Markus Kuhn <mkuhn@acm.org>]
[pnmtojbig: (C) 2000 Markus Kuhn <mkuhn@acm.org>]
filter to create GIFs - patent restricted. (http://www.unisys.com/unisys/lzw/
[ppmtogif: (A) 1989 Jef Poskanzer]

==========
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hpcdtoppm package:
==========
hpcdtoppm pcdindex

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PATENTS

These are the patents the Netpbm maintainer knows about that relate to
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over at some point -- no search has been done.

No licenses have been granted by patent owners to the maintainer of
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A note about patents in general: A patent gives an inventor the
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the exclusive right. It makes no difference if you give the original
inventor credit. The patent applies to a method, not its expression,
so writing a program from scratch to implement a certain method is
still a patent infringement. Infringing a patent is not a crime per
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infringer has to make it up.

The original purpose of patents is probably perverted when patents are
applied to things you implement in computer programs. This is one of
the Free Software Foundation's causes. See
<http://www.gnu.org/philosophy.html#laws>.

Unisys owns a patent on LZW compression, which is used by ppmtogif,
and maybe on LZW decompression, which is used by giftoppm. IBM also
owns a patent that may cover the GIF tools. Unisys offers a license
of the patent for trivial use for $5000. Its patent expires in 2003.
Neither company has ever enforced the patent against trivial users of
it. <http://news.cnet.com/news/0-1005-200-1713278.html>
is an
article dated April 18, 2000 on the issue.

<http://www.unisys.com/unisys/lzw/> is Unisys' view of the matter.
For information from another perspective, see
http://www.gnu.org/philosophy/gif.html or http://burnallgifs.org/.

The following Netpbm components may be restricted by this patent:
ppmtogif, giftopnm.

A good substitute for GIF if the patents are a problem is PNG (see
pngtopnm, pnmtopng), which was developed with a primary purpose of not
using any patented technology.

You can also use the -nolzw option on ppmtogif to avoid using the LZW
patent. The images so generated are larger than traditional
LZW-compressed GIFs, but any GIF decoder can decode them just the
same.

The jbigtopnm and pnmtojbig programs use arithmetic coding patents and
other patents covering various aspects of the "front end."
THIS IS THE README FILE FROM THE JPEG LIBRARY, 2000.03.06. IT IS INCLUDED
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The Independent JPEG Group's JPEG software
==========

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==========

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Serious users of this software (particularly those incorporating it into
larger
programs) should contact IJG at jpeg-info@uunet.uu.net to be added to
our electronic mailing list. Mailing list members are notified of updates
and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher,
Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi,

Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION ROADMAP
==========

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other
documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.
Programmer and internal documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS
below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
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This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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that you must include source code if you redistribute it. (See the file
ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part
of any program generated from the IJG code, this does not limit you more than
the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf.
It is copyright by the Free Software Foundation
but is freely distributable.
The same holds for its supporting scripts (config.guess, config.sub,
ltconfig, ltmain.sh). Another support script, install-sh, is copyright
by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by
patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot
legally be used without obtaining one or more licenses. For this reason,
support for arithmetic coding has been removed from the free JPEG software.
(Since arithmetic coding provides only a marginal gain over the unpatented
Huffman mode, it is unlikely that very many implementations will support it.)
So far as we are aware, there are no patent restrictions on the remaining
code.

The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support has
been removed altogether, and the GIF writer has been simplified to produce
"uncompressed GIFs".
This technique does not use the LZW algorithm; the
resulting GIF files are larger than usual, but are readable by all standard
GIF decoders.

We are required to state that
"The Graphics Interchange Format(c) is the Copyright property of
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REFERENCES
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We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document

numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:
Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314
A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS

The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from

the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

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RELATED SOFTWARE

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/. Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO

The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

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v. 1.1

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If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of

its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)
@end enumerate

These requirements apply to the modified work as a whole. If
identifiable sections
of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this
License.

@item
You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of

the Library into a program that is not a library.

@item
You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and
2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

@item
A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a ``work that uses the Library''. Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a ``work that uses the Library'' with the Library
creates an executable that is a derivative of the Library (because
it
contains portions of the Library), rather than a ``work that uses the
library''. The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a ``work that uses the Library'' uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise,
if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

@item
As an exception to the Sections above, you may also combine or
link a ``work that uses the Library'' with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of
this License. Also, you must do one
of these things:

@enumerate a
@item
Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable ``work that
uses the Library'', as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

@item
Use a suitable shared library mechanism for linking with the Library. A
suitable mechanism is one that (1) uses at run time a copy of the
library already present on the user's computer system, rather than
copying library functions into the executable,
and (2) will operate
properly with a modified version of the library, if the user installs
one, as long as the modified version is interface-compatible with the
version that the work was made with.

@item
Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more

than the cost of performing this distribution.

@item
If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

@item
Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.
@end enumerate

For an executable, the required form of the ``work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that
is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

@item
You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

@enumerate a
@item
Accompany the combined library with a copy of the same work
based on the Library,
uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

@item
Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

@end enumerate

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@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page
@subheading How to Apply These Terms to Your New Libraries

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safest to attach them to the start of each source
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USA.
@end
smallexample

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necessary. Here is a sample; alter the names:

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`Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
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@enumerate a
@item
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stating
that you changed the files and the date of any change.

@item
You must cause any work that you distribute or publish, that in
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parties under the terms of this License.

@item
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interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under
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themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

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exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring
the other work under
the scope of this License.

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under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

@enumerate a
@item
Accompany it with the complete corresponding machine-readable
source code, which must be distributed under the terms of Sections
1 and 2 above on a medium customarily used for software interchange; or,

@item
Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

@item
Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial
distribution and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)
@end enumerate

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
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of preserving the free status of all derivatives of our free software and
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@ifinfo
@center
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@end enumerate

@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS

@end ifinfo

@page
@heading Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively

convey the exclusion of warranty; and each file should have at least
the ``copyright'' line and a pointer to where the full notice is found.

@smallexample
@var{one line to give the program's name
 and a brief idea of what it does.}
Copyright (C) @var{yyyy} @var{name of author}

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@end smallexample

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

@smallexample
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 69, Copyright (C) @var{year} @var{name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
@end smallexample

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```
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// SPDX Document for version 2.3 of the spec.
type OtherLicense struct {
 // 10.1: License Identifier: "LicenseRef-[idstring]"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 10.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //              License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 10.3: License Name: single line of text or "NOASSERTION"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseName string `json:"name,omitempty"`

 // 10.4: License Cross Reference
 // Cardinality: conditional (optional, one or many) if license
 //              is not on SPDX License List
 LicenseCrossReferences []string `json:"seeAlsos,omitempty"`
```

//
10.5: License Comment
// Cardinality: optional, one
LicenseComment string `json:"comment,omitempty"`
}
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type OtherLicense struct {
 // 10.1: License Identifier: "LicenseRef-[idstring]"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 10.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //              License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 10.3: License Name: single line of text or "NOASSERTION"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseName string `json:"name,omitempty"`

 // 10.4: License Cross Reference
 // Cardinality: conditional (optional, one or many) if license
 //              is not on SPDX License List
 LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

 //
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 // Cardinality: optional, one
 LicenseComment string `json:"comment,omitempty"`
}
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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localtime.go, localtime_test.go:

Originals:
https://raw.githubusercontent.com/googleapis/google-cloud-
go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil.go
https://raw.githubusercontent.com/googleapis/google-cloud-
go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil_test.go
Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.

* 'Local' prefix added to all structs.

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1.1397 kubernetes-klog 2.100.1

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import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 "google.golang.org/api/iterator"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
```

```
 // This snippet has been automatically generated and should be regarded as a code template only.
 //
 It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
```

```
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
}
resp,
err := c.Get(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_
= resp
}
```

```
func ExampleLicensesClient_Insert() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
 }
 it := c.List(ctx, req)
```

```
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
 }
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require
 specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
```

```
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseRequest{
 // TODO: Fill request struct fields.
 // See
https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

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```
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "math"
 "net/http"
 "net/url"

 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
```

```
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var
 newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete:            []gax.CallOption{},
  Get:               []gax.CallOption{},
  GetIamPolicy:      []gax.CallOption{},
  Insert:            []gax.CallOption{},
  List:              []gax.CallOption{},
  SetIamPolicy:      []gax.CallOption{},
  TestIamPermissions: []gax.CallOption{},
 }
}

//
 internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
```

```
(*computepb.TestPermissionsResponse, error)
}

//
 LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the
 API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}
```

```
// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy
 or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use
 this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating
 Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}
```

```
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption)
 (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC
```

```
 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", versionGo()}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient)
 Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
```

```
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type",
 "application/json"))
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }
```

```
 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:
       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
```

```
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy
 or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))
```

```
 headers := buildHeaders(ctx, c.xGoogMetadata,
 md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil
 {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
```

party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v", "project",
url.QueryEscape(req.GetProject())))

 headers
 := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()
```

```
 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return
maybeUnknownEnum(err)
 }

 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial:
 true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
```

```
 } else if pageSize != 0 {
  req.MaxResults = proto.Uint32(uint32(pageSize))
 }
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, "", err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.Filter != nil {
  params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
 }
 if req != nil && req.MaxResults != nil {
  params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
 }
 if req != nil && req.OrderBy != nil {
  params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req != nil && req.PageToken != nil {
  params.Add("pageToken",
fmt.Sprintf("%v", req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
```

```
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil
 {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m
 := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
```

```
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings)
 error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
```

```
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest,
 opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true,
 DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
```

```
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
 items    []*computepb.License
 pageInfo *iterator.PageInfo
 nextFunc
 func() error

 // Response is the raw response for the current page.
 // It must be cast to the RPC response type.
 // Calling Next() or InternalFetch() updates this value.
 Response interface{}

 // InternalFetch is for use by the Google Cloud Libraries only.
 // It is not part of the stable interface of this package.
 //
 // InternalFetch returns results from a single call to the underlying RPC.
 // The number of results is no greater than pageSize.
 // If there are no more results, nextPageToken is empty and err is nil.
```

```
 InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
 return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it
 *LicenseIterator) Next() (*computepb.License, error) {
 var item *computepb.License
 if err := it.nextFunc(); err != nil {
  return item, err
 }
 item = it.items[0]
 it.items = it.items[1:]
 return item, nil
}

func (it *LicenseIterator) bufLen() int {
 return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
 b := it.items
 it.items = nil
 return b
}
// Copyright 2022 Google LLC
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//
//     https://www.apache.org/licenses/LICENSE-2.0
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute
```

```
import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "net/http"
 "net/url"

 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get              []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
 return &LicenseCodesCallOptions{
  Get:              []gax.CallOption{},
  TestIamPermissions: []gax.CallOption{},
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
 (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
```

```
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx
 context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
```

```
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx,
 clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}
```

```
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go",
 versionGo()}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption)
 (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
```

```
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(),
nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq,
 err := m.Marshal(body)
 if err != nil {
```

```
 return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error
{
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
```

```
  return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}
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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications
 to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()
```

```
 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO:
 Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequ
```

```
est.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

1.1408 gopkg.in/telebot.v3 3.1.2

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1.1409 cli 2.25.0

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1.1410 aop-alliance 2.6.1

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                    the mandatory attribute for it to be able to import. See \
                    section #3.6.5 of OSGi R4 spec.\
                    Why is this required?\
                    See https://glassfish.dev.java.net/issues/show_bug.cgi?id=5385\
                    By doing this, we allow user have any version of apache-commons lib\
                    in their application class loader hierarchy. They don't even have to\
                    set delegation=false in sun-web.xml! This is the true advantage of\
                    using OSGi.
 Sahoo.\
                \
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#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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* Regular
expression support

regexp/jimregexp.[ch]:

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Subsequently modified by:

1986 John Gilmore hoptoad!gnu
1987 James A. Woods ames!jaw
1993 Christopher Seiwald seiwald@vix.com
2000, 2002 Christopher Seiwald <seiwald@perforce.com>
2010 Steve Bennett <steveb@workware.net.au>
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Theodore Ts'o
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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```
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 library `Frob' (a library for tweaking knobs) written by James Random Hacker.

 <signature of Ty Coon>, 1 April 1990
 Ty Coon, President of Vice
```

That's all there is to it!

```
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
 @echo " MKDIR pic"
 @mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:  $(BSD_LIB)

$(BSD_LIB): $(OBJS)
 (cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
 $(MV) pic/$(BSD_LIB) .
 $(RM) -f ../$(BSD_LIB)
 (cd ..; $(LN) $(LINK_BUILD_FLAGS) \
  `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
 @echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
 @$(INSTALL_PROGRAM) $(BSD_LIB) \
  $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
 @-$(LDCONFIG)
```

```
install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
 $(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
 $(RM)
 -rf pic
 $(RM) -f $(BSD_LIB)
 $(RM) -f ../$(BSD_LIB)
```

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1.1414 pcre 10.42-1

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Email domain: gmail.com

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1.1415 brotli 1.0.9-2+b6

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1.1416 grep 3.8-5

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1.1418 audit 3.0.9-1

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)

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1.1424 libsemanage-common 3.4-1+b5

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1.1433 github.com/tklauser/numcpus 0.4.0

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```
package api

import (
 "io/ioutil"
 "strings"
 "time"
)
```

```
type License struct {
 // The unique identifier of the license
 LicenseID string `json:"license_id"`

 // The customer ID associated with the license
 CustomerID string `json:"customer_id"`

 // If set, an identifier that should be used to lock the license to a
 // particular site, cluster, etc.
 InstallationID string `json:"installation_id"`

 // The time at which the license was issued
 IssueTime time.Time `json:"issue_time"`

 // The time at which the license starts being valid
 StartTime time.Time `json:"start_time"`

 // The time after which the license expires
 ExpirationTime time.Time `json:"expiration_time"`

 // The time at which the license ceases to function and can
 // no longer be used in any capacity
 TerminationTime time.Time `json:"termination_time"`

 // The product the license is valid for
 Product string `json:"product"`

 // License Specific Flags
 Flags map[string]interface{} `json:"flags"`

 // Modules is a list
 of the licensed enterprise modules
 Modules []string `json:"modules"`

 // List of features enabled by the license
 Features []string `json:"features"`
}

type LicenseReply struct {
 Valid    bool
 License  *License
 Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
 var reply LicenseReply
 if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
```

```
 return nil, err
 } else {
  return &reply, nil
 }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
 r := op.c.newRequest("GET", "/v1/operator/license")
 r.params.Set("signed", "1")
 r.setQueryOptions(q)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return "", err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return "", err
 }

 data, err := ioutil.ReadAll(resp.Body)
 if err != nil {
  return "", err
 }

 return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If
 the builtin license is invalid, the current license stays active.
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r := op.c.newRequest("DELETE", "/v1/operator/license")
 r.setWriteOptions(opts)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return nil, err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return nil, err
 }
 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
 }
```

```
 return &reply, nil
}

// LicensePut will configure the Consul Enterprise license for the target datacenter
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r
 := op.c.newRequest("PUT", "/v1/operator/license")
 r.setWriteOptions(opts)
 r.body = strings.NewReader(license)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return nil, err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return nil, err
 }

 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
 }

 return &reply, nil
}
```

1.1435 k8s-io-client-go 0.23.3

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1.1436 k8s-io-api 0.23.4

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1.1437 github.com/tklauser/go-sysconf 0.3.10

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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* Regular
expression support

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Subsequently modified by:

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1987 James A. Woods ames!jaw
1993 Christopher Seiwald seiwald@vix.com
2000, 2002 Christopher Seiwald <seiwald@perforce.com>
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src/base/md5.c
src/base/md5.h
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src/bdf/bdf.h
src/bdf/bdfdrivr.c
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src/gzip/infblock.h
src/gzip/infcodes.c
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src/gzip/inffixed.h
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src/gzip/infutil.c
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src/gzip/zconf.h
src/gzip/zlib.h
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src/gzip/zutil.h
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1.1445 libcrypt-dev 4.4.27-1

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#+TITLE: List of code with permissive licenses as used by GnuPG.
#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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* Regular
expression support

regexp/jimregexp.[ch]:

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Subsequently modified by:

1986 John Gilmore hoptoad!gnu
1987 James A. Woods ames!jaw
1993 Christopher Seiwald seiwald@vix.com
2000, 2002 Christopher Seiwald <seiwald@perforce.com>
2010 Steve Bennett <steveb@workware.net.au>
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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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* Regular
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1993 Christopher Seiwald seiwald@vix.com
2000, 2002 Christopher Seiwald <seiwald@perforce.com>
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1.1451 k8s-io-kube-openapi 0.0.0-20230501164219-8b0f38b5fd1f

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
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```

```
package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
 license := License{Name: "the name", URL: "the url"}
 const licenseJSON = `{"name":"the name","url":"the url"}`
 const licenseYAML = "name: the name\nurl: the url\n"

 assertSerializeJSON(t, license, licenseJSON)
 assertParsesJSON(t, licenseJSON, license)
}
```

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```
package api

import (
 "io/ioutil"
 "strings"
 "time"
)

type License struct {
 // The unique identifier of the license
 LicenseID string `json:"license_id"`

 // The customer ID associated with the license
 CustomerID string `json:"customer_id"`

 // If set, an identifier that should be used to lock the license to a
 // particular site, cluster, etc.
 InstallationID string `json:"installation_id"`

 // The time at which the license was issued
 IssueTime time.Time `json:"issue_time"`

 // The time at which the license starts being valid
 StartTime time.Time `json:"start_time"`

 // The time after which the license expires
 ExpirationTime time.Time `json:"expiration_time"`

 // The time at which the license ceases to function and can
 // no longer be used in any capacity
 TerminationTime time.Time `json:"termination_time"`

 // The product the license is valid for
 Product string `json:"product"`
```

```
 // License Specific Flags
 Flags map[string]interface{} `json:"flags"`

 // Modules is a list
 of the licensed enterprise modules
 Modules []string `json:"modules"`

 // List of features enabled by the license
 Features []string `json:"features"`
}

type LicenseReply struct {
 Valid    bool
 License  *License
 Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
 var reply LicenseReply
 if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
  return nil, err
 } else {
  return &reply, nil
 }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
 r := op.c.newRequest("GET", "/v1/operator/license")
 r.params.Set("signed", "1")
 r.setQueryOptions(q)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return "", err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return "", err
 }

 data, err := ioutil.ReadAll(resp.Body)
 if err != nil {
  return "", err
 }

 return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
```

```
// If
 the builtin license is invalid, the current license stays active.
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r := op.c.newRequest("DELETE", "/v1/operator/license")
 r.setWriteOptions(opts)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return nil, err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return nil, err
 }
 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
 }
 return &reply, nil
}

// LicensePut will configure the Consul Enterprise license for the target datacenter
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r
 := op.c.newRequest("PUT", "/v1/operator/license")
 r.setWriteOptions(opts)
 r.body = strings.NewReader(license)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return nil, err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return nil, err
 }

 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
 }

 return &reply, nil
}
```

1.1454 libnlroute 3.5.0-0.1

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1.1455 go-uber-org-zap 1.21.0

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1.1456 strip-ansi 7.1.0

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1.1457 ssh-agent 0.3.3

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package spec

import (
 "encoding/json"
 "testing"

 "github.com/stretchr/testify/assert"
)

var license = License{
 LicenseProps:     LicenseProps{Name: "the name", URL: "the url"},
 VendorExtensible: VendorExtensible{Extensions: map[string]interface{}{"x-license": "custom term"}}}

const licenseJSON = `{
 "name": "the name",
 "url": "the url",
 "x-license": "custom term"
}`

func TestIntegrationLicense(t
 *testing.T) {

 // const licenseYAML = "name: the name\nurl: the url\n"

 b, err := json.MarshalIndent(license, "", "\t")
 if assert.NoError(t, err) {
  assert.Equal(t, licenseJSON, string(b))
 }

 actual := License{}
 err = json.Unmarshal([]byte(licenseJSON), &actual)
 if assert.NoError(t, err) {
  assert.EqualValues(t, license, actual)
 }
}
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package spec

import (
 "encoding/json"

 "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 LicenseProps
 VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}

// UnmarshalJSON
 hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
 if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
  return err
 }
 return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
 b1, err := json.Marshal(l.LicenseProps)
 if err != nil {
  return nil, err
 }
 b2, err := json.Marshal(l.VendorExtensible)
 if err != nil {
  return nil, err
 }
 return swag.ConcatJSON(b1, b2), nil
}
```

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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Protocol Buffers for Go with Gadgets

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1.1460 go-uber-org-zap 1.23.0

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1.1461 mongo-driver 1.11.0

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1.1462 github.com/shirou/gopsutil/v3 3.22.9

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1.1464 githubcommiekgdns 1.1.49

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1.1470 x11-common 7.7+23ubuntu2

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1.1471 libfido2-1 1.10.0-1

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1.1473 python-dbus 1.2.18-3build1

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d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble
========

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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for copying, distribution and
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to ensure that, in the event an application does not supply
such function or table, the facility still operates, and

performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots
has a purpose that is entirely well-defined independent of the
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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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b. Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of

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c. If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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```
<!-- Creator     : groff version 1.20.1 -->
<!-- CreationDate: Fri Jan 14 19:57:50 2011 -->
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta name="generator" content="groff -Thtml, see www.gnu.org">
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<meta name="Content-Style" content="text/css">
<link rel="stylesheet" type="text/css" href="texi2tr.css" />
<title>GNU Modula-2</title>
</head>

<body>
 <!-- site wide top running header menu -->

 <ul id="overview">
   <li class="home">
     HOME_HREF
   </li>
   <li class="release">
     12_HREF
   </li>

   <li>
     <a href="news.html" title="News">News</a>
   </li>
   <li>
     <a href="development.html" title="Development">Development</a>
   </li>
   <li>
     <a href="community.html" title="Community">Community</a>
   </li>
 </ul>

 <div id="header">
   <h1>
```

```
    <span style="display:inline-block; vertical-align:middle">
 <img
 src="200px-Heckert_GNU_white.png" alt="Heckert_GNU_white.png">
    </span>
    <span style="display:inline-block; vertical-align:middle; font-size: 50px">
 GNU Modula-2
    </span>
  </h1>

  <!-- homepage tab menu -->

  <div id="tabmenu">
    <ul id="tab">
 <li><a href="about.html"><span>About</span></a></li>
 <li><a href="download.html"><span>Download</span></a></li>
 <li><a href="release.html"><span>Latest Release</span></a></li>
 <li class="selected"><a href="license.html"><span>License</span></a></li>
 <li><a href="platforms.html"><span>Platforms</span></a></li>
 <li><a href="users.html"><span>Users</span></a></li>
    </ul>
  </div>
 </div>

<div id="page">
 <div class="plain">
  <h2>The home of the GNU Modula-2 compiler</h2>
  <p>The compiler is held under the GNU Public Licence v3.</p>
  <p>The ISO and PIM libraries are under the GPL v3.1 with GCC runtime extensions.  Copies of the
    licences can be found on the
    <a href="http://www.gnu.org/licenses">GNU</a>
 web site.</p>
 </div>
</div>
</body>
</html>
```

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1.1478 libpsl5 0.21.2-1

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1.1479 libgdbm6 1.23-3

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Julian Seward, jseward@bzip.org
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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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1.1482 libkeyutils 1.6.3-2

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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* Regular
expression support

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Subsequently modified by:

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1987 James A. Woods ames!jaw
1993 Christopher Seiwald seiwald@vix.com
2000, 2002 Christopher Seiwald <seiwald@perforce.com>
2010 Steve Bennett <steveb@workware.net.au>
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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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1.1491 libsaslmodulesdb 2.1.28+dfsg-10

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1.1493 libsepol 3.4-2.1

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1.1496 libgdbm-compat4 1.23-3

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1.1501 prometheus-community-go-runit 0.1.0

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1.1502 k8s-io-api 0.23.8

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1.1503 k8s-io-apimachinery 0.23.8

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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```
<!-- Creator     : groff version 1.20.1 -->
<!-- CreationDate: Fri Jan 14 19:57:50 2011 -->
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta name="generator" content="groff -Thtml, see www.gnu.org">
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<meta name="Content-Style" content="text/css">
<link rel="stylesheet" type="text/css" href="texi2tr.css" />
<title>GNU Modula-2</title>
</head>

<body>
 <!-- site wide top running header menu -->

 <ul id="overview">
   <li class="home">
     HOME_HREF
   </li>
   <li class="release">
     11_HREF
   </li>

   <li>
     <a href="news.html" title="News">News</a>
   </li>
   <li>
     <a href="development.html" title="Development">Development</a>
   </li>
   <li>
     <a href="community.html" title="Community">Community</a>
   </li>
 </ul>

 <div id="header">
   <h1>
     <span style="display:inline-block; vertical-align:middle">
 <img
 src="200px-Heckert_GNU_white.png" alt="Heckert_GNU_white.png">
     </span>
```

```
    <span style="display:inline-block; vertical-align:middle; font-size: 50px">
 GNU Modula-2
    </span>
  </h1>

  <!-- homepage tab menu -->

  <div id="tabmenu">
    <ul id="tab">
 <li><a href="about.html"><span>About</span></a></li>
 <li><a href="download.html"><span>Download</span></a></li>
 <li><a href="release.html"><span>Latest Release</span></a></li>
 <li class="selected"><a href="license.html"><span>License</span></a></li>
 <li><a href="platforms.html"><span>Platforms</span></a></li>
 <li><a href="users.html"><span>Users</span></a></li>
    </ul>
  </div>
 </div>

<div id="page">
 <div class="plain">
   <h2>The home of the GNU Modula-2 compiler</h2>
   <p>The compiler is held under the GNU Public Licence v3.</p>
   <p>The ISO and PIM libraries are under the GPL v3.1 with GCC runtime extensions.  Copies of the
     licences can be found on the
     <a href="http://www.gnu.org/licenses">GNU</a>
 web site.</p>
 </div>
</div>
</body>
</html>
```

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DRuntime: Runtime Library for the D Programming Language
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The

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Version 2, June 1991

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========

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(For example, a function in a library to compute square roots
has a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function
must be optional: if the application does not supply it, the

square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is
made by offering access to copy
from a designated place, then offering equivalent access to copy
the source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being
compiled or linked with it, is called a "work that uses the
Library". Such a work, in isolation, is not a derivative work of
the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because
it contains portions of the Library), rather than a "work that
uses the library". The executable is therefore covered by this
License. Section 6 states terms for distribution of such
executables.

When a "work that uses the Library" uses material from a header
file that is part of the Library, the object code for the work may
be a derivative work of the Library even though the source code is
not. Whether this is true is especially significant if the work
can be linked without the Library, or if the work is itself a
library. The threshold for this to be true is not precisely
defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a
derivative work. (Executables containing this object code plus
portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section
6. Any
executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or
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It may happen that this requirement contradicts the license restrictions of other proprietary libraries

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accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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The precise terms and conditions for copying, distribution and
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@heading TERMS AND CONDITIONS

@enumerate 0
@item Definitions.

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it does not include the work's
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and giving a relevant date.

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under section 7. This
requirement modifies the requirement in section 4 to ``keep intact all
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@item
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cost of physically performing this conveying of source, or (2) access
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received the object code with such an offer, in accord with subsection
6b.

@item
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Corresponding Source in the same way through
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@item
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does not include a
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1.1511 slf4j-impl 1.7.36

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GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic
```

```
## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation
 rules
%.$(STATIC_O): $(srcdir)/%.c
 $(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
 $(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
 $(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
 $(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<


## Dependency rules
%.d: $(srcdir)/%.c
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.c) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.cc) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
 $(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
 $(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

##  Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
```

STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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========

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```
<!-- Creator     : groff version 1.20.1 -->
<!-- CreationDate: Fri Jan 14 19:57:50 2011 -->
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta name="generator" content="groff -Thtml, see www.gnu.org">
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<meta name="Content-Style" content="text/css">
```

```
<link rel="stylesheet" type="text/css" href="texi2tr.css" />
<title>GNU Modula-2</title>
</head>

<body>
 <!-- site wide top running header menu -->

 <ul id="overview">
   <li class="home">
     HOME_HREF
   </li>
   <li class="release">
     12_HREF
   </li>

   <li>
     <a href="news.html" title="News">News</a>
   </li>
   <li>
     <a href="development.html" title="Development">Development</a>
   </li>
   <li>
     <a href="community.html" title="Community">Community</a>
   </li>
 </ul>

 <div id="header">
   <h1>
     <span style="display:inline-block; vertical-align:middle">
 <img
 src="200px-Heckert_GNU_white.png" alt="Heckert_GNU_white.png">
     </span>
     <span style="display:inline-block; vertical-align:middle; font-size: 50px">
 GNU Modula-2
     </span>
   </h1>

   <!-- homepage tab menu -->

   <div id="tabmenu">
     <ul id="tab">
 <li><a href="about.html"><span>About</span></a></li>
 <li><a href="download.html"><span>Download</span></a></li>
 <li><a href="release.html"><span>Latest Release</span></a></li>
 <li class="selected"><a href="license.html"><span>License</span></a></li>
 <li><a href="platforms.html"><span>Platforms</span></a></li>
 <li><a href="users.html"><span>Users</span></a></li>
     </ul>
```

```
  </div>
 </div>

<div id="page">
 <div class="plain">
  <h2>The home of the GNU Modula-2 compiler</h2>
  <p>The compiler is held under the GNU Public Licence v3.</p>
  <p>The ISO and PIM libraries are under the GPL v3.1 with GCC runtime extensions.  Copies of the
    licences can be found on the
    <a href="http://www.gnu.org/licenses">GNU</a>
 web site.</p>
 </div>
</div>
</body>
</html>
```

1.1515 procps 4.0.2-3

1.1515.1 Available under license :

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1.1518 python-certifi 2020.6.20-1

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file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
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@(#) $RCSfile: certdata.txt,v $
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1.1519 python-service-identity 18.1.0-6

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That's all there is to it!

1.1523 python-requests 2.25.1+dfsg-2ubuntu0.1

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1.1524 zlib1g-dev 1.2.11.dfsg-2ubuntu9.2

1.1524.1 Available under license :

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Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page
http://zlib.net/ which may have more recent information.
The lastest zlib FAQ is at http://zlib.net/zlib_faq.html

1. Is zlib Y2K-compliant?

Yes. zlib doesn't handle dates.

2. Where can I get a Windows DLL version?

The zlib sources can be compiled without change to produce a DLL. See the file win32/DLL_FAQ.txt in the zlib distribution. Pointers to the precompiled DLL are found in the zlib web site at http://zlib.net/ .

3. Where can I get a Visual Basic interface to zlib?

See
* http://marknelson.us/1997/01/01/zlib-engine/
* win32/DLL_FAQ.txt in the zlib distribution

4. compress() returns Z_BUF_ERROR.

Make sure that before the call of compress(), the length of the compressed buffer is equal to the available size of the compressed buffer and not zero. For Visual
Basic, check that this parameter is passed by reference ("as any"), not by value ("as long").

5. deflate() or inflate() returns Z_BUF_ERROR.

Before making the call, make sure that avail_in and avail_out are not zero. When setting the parameter flush equal to Z_FINISH, also make sure that avail_out is big enough to allow processing all pending input. Note that a Z_BUF_ERROR is not fatal--another call to deflate() or inflate() can be made with more input or output space. A Z_BUF_ERROR may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when strm.avail_out returns with zero. See http://zlib.net/zlib_how.html for a heavily annotated example.

6. Where's the zlib documentation (man pages, etc.)?

It's in zlib.h . Examples of zlib usage are in the files test/example.c and test/minigzip.c, with more in examples/ .

7. Why don't you use GNU
autoconf or libtool or ...?

Because we would like to keep zlib as a very small and simple package. zlib is rather portable and doesn't need much configuration.

8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib. Please try to reproduce the problem with a small program and send the corresponding source to us at zlib@gzip.org . Do not send multi-megabyte data files without prior agreement.

9. Why do I get "undefined reference to gzputc"?

If "make test" produces something like

example.o(.text+0x154): undefined reference to `gzputc'

check that you don't have old files libz.* in /usr/lib, /usr/local/lib or /usr/X11R6/lib. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the contrib/delphi directory in the zlib distribution.

11. Can zlib handle .zip archives?

Not by itself, no. See the directory contrib/minizip in the zlib distribution.

12.
Can zlib handle .Z files?

No, sorry. You have to spawn an uncompress or gunzip subprocess, or adapt the code of uncompress on your own.

13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

```
make distclean
./configure
make
```

14. How do I install a shared zlib library on Unix?

After the above, then:

```
make install
```

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can #include <zlib.h>, it's there. The -lz option will probably link to it. You can check the version at the top of zlib.h or with the ZLIB_VERSION symbol defined in zlib.h .

15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, jhainley@myndkryme.com.

16.
Can zlib decode Flate data in an Adobe PDF file?

Yes. See http://www.pdflib.com/ . To modify PDF forms, see http://sourceforge.net/projects/acroformtool/ .

17. Why am I getting this "register_frame_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

```
ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so:
symbol __register_frame_info: referenced symbol not found
```

The symbol __register_frame_info is not part of zlib, it is generated by the C compiler (cc or gcc). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See http://www.sunfreeware.com for Solaris versions of zlib and applications using zlib.

18. Why does gzip give an error on a file I make with compress/deflate?

The compress and deflate functions produce data in the zlib format, which is different and incompatible
with the gzip format. The gz* functions in
zlib on the other hand use the gzip format. Both the zlib and gzip formats use the same compressed data format internally, but have different headers and trailers around the compressed data.

19. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using deflateInit2(). You can also request that inflate decode the gzip format using inflateInit2(). Read zlib.h for more details.

21. Is zlib thread-safe?

Yes. However any library routines
that zlib uses and any application-
provided memory allocation routines must also be thread-safe. zlib's gz*
functions use stdio library routines, and most of zlib's functions use the
library memory allocation routines by default. zlib's *Init* functions
allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a
single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in zlib.h.

23. Is zlib under the GNU license?

No. Please read the license in zlib.h.

24. The license says that altered source versions must be "plainly marked". So
what exactly do I need to do to meet that requirement?

You need to change the ZLIB_VERSION and ZLIB_VERNUM #defines in zlib.h. In
particular, the final version number needs to be changed to "f", and an
identification string should be appended to ZLIB_VERSION. Version numbers
x.x.x.f are reserved for modifications to zlib by others than the zlib
maintainers. For example, if the version of the base zlib you are altering
is "1.2.3.4", then in zlib.h you should change ZLIB_VERNUM to 0x123f, and
ZLIB_VERSION to something like "1.2.3.f-zachary-mods-v3". You can also
update the version strings in deflate.c and inftrees.c.

For altered source distributions, you should also note the origin and
nature of the changes in zlib.h, as well as in ChangeLog and README, along
with the dates of the alterations. The origin should include at least your
name (or your company's name), and an email address to contact for help or
issues with the library.

Note that distributing a compiled zlib library along with zlib.h and
zconf.h is also a source distribution, and so you should change
ZLIB_VERSION and ZLIB_VERNUM and note the origin and nature of the changes
in zlib.h as you would for a full source distribution.

25.
Will zlib work on a big-endian or little-endian architecture, and can I
exchange compressed data between them?

Yes and yes.

26. Will zlib work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any data types being limited to 32-bits in length. If you have any difficulties, please provide a complete problem report to zlib@gzip.org

27. Will zlib decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than does PKZIP and zlib. However, you can look in zlib's contrib/blast directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use Z_FULL_FLUSH, carefully write all the pending data at those points, and keep an index of those locations, then you can start decompression at those points. You have to be careful to not use Z_FULL_FLUSH too often, since it can significantly degrade compression. Alternatively, you can scan a deflate stream once to generate an index, and then use that index for random access. See examples/zran.c .

29. Does zlib work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There were working ports of zlib 1.1.4 to MVS, but those links no longer work. If you know of recent, successful applications of zlib on these operating systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at to understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's contrib/puff directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information:

http://www.gzip.org/#faq11

32. Can zlib work with greater than 4 GB of data?

Yes. inflate() and deflate() will process any amount of data correctly. Each call of inflate() or deflate() is limited to input and output chunks of the maximum value that can be stored in the compiler's "unsigned int"

type, but there is no limit to the number of chunks. Note however that the strm.total_in and strm_total_out counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by inflate() or deflate(). The application can easily set up its own counters updated after each call of inflate() or deflate() to count beyond 4 GB. compress() and uncompress() may be limited to 4 GB, since they operate in a single call. gzseek() and gztell() may be limited to 4 GB depending on how zlib is compiled. See the zlibCompileFlags() function in zlib.h.

The word "may" appears several times above since there is a 4 GB limit only if the compiler's "long" type is
32 bits. If the compiler's "long" type is
64 bits, then the limit is 16 exabytes.

33. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in gzprintf(). If zlib is compiled to use sprintf() or vsprintf(), then there is no protection against a buffer overflow of an 8K string space (or other value as set by gzbuffer()), other than the caller of gzprintf() assuring that the output will not exceed 8K. On the other hand, if zlib is compiled to use snprintf() or vsnprintf(), which should normally be the case, then there is no vulnerability. The ./configure script will display warnings if an insecure variation of sprintf() will be used by gzprintf(). Also the zlibCompileFlags() function will return information on what variant of sprintf() is used by gzprintf().

If you don't have snprintf() or vsnprintf() and would like one, you can find a portable implementation here:

http://www.ijs.si/software/snprintf/

Note that you should be using the most recent version of zlib. Versions 1.1.3 and before were subject to a double-free vulnerability, and versions 1.2.1 and 1.2.2 were subject to an access exception when decompressing invalid compressed data.

34. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the java.util.zip package. If you really want a version of zlib written in the Java language, look on the zlib home page for links: http://zlib.net/ .

35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler

in the universe. It just got to be a waste of time, and some compilers were downright silly as well as contradicted each other. So now, we simply make sure that the code always
works.

36. Valgrind (or some similar memory access checker) says that deflate is performing a conditional jump that depends on an uninitialized value. Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate is not affected. This only started showing up recently since zlib 1.2.x uses malloc() by default for allocations, whereas earlier versions used calloc(), which zeros out the allocated memory. Even though the code was correct, versions 1.2.4 and later was changed to not stimulate these checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the comp.compression FAQ for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption,
use GnuPG, http://www.gnupg.org/ , which already includes zlib compression. For PKZIP compatible "encryption", look at http://www.info-zip.org/

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an
unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by Giles Vollant, which is found in the contrib directory of zlib. It is not part of zlib. In fact none of the stuff in contrib is part of zlib. The files in there are not supported by the zlib authors. You need to contact the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General Public License.
Since it's part of zlib, doesn't that mean that all of zlib falls under the GNU GPL?

No. The files in contrib are not part of zlib. They were contributed by other authors and are provided as a convenience to the user within the zlib distribution. Each item in contrib has its own license.

43. Is zlib subject to export controls? What is its ECCN?

zlib is not subject to export controls, and so is classified as EAR99.

44. Can you please sign these lengthy legal documents and fax them back to us so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ
No license file was found, but licenses were detected in source scan.

```
/* fitblk.c: example of fitting compressed output to a specified size
  Not copyrighted -- provided to the public domain
  Version 1.1  25 November 2004  Mark Adler */
```

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/fitblk.c
No license file was found, but licenses were detected in source scan.

```
/* unzip.c -- IO for uncompress .zip files using zlib
  Version 1.1, February 14h, 2010
```

part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

Modifications of Unzip for Zip64
Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip
Copyright (C) 2009-2010 Mathias Svensson (http://result42.com)

For more info read MiniZip_info.txt

Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of
compatibility with older software. The following is from the original crypt.c.
Code woven in by Terry Thorsen 1/2003.

Copyright (c) 1990-2000 Info-ZIP. All rights reserved.

See the accompanying
file LICENSE, version 2000-Apr-09 or later
(the contents of which are also included in zip.h) for terms of use.
If, for some reason, all these files are missing, the Info-ZIP license
also may be found at: ftp://ftp.info-zip.org/pub/infozip/license.html

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the
non-echoing password parts) were originally written in Europe. The
whole source package can be freely distributed, including from the USA.
(Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from
Roger Schlafly, described by Phil Katz in the file appnote.txt. This
file (appnote.txt) is distributed with the PKZIP program (even in the
version without encryption capabilities).

Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl_unzGetCurrentFileZStreamPos
2007-2008 - Even Rouault - Decoration of symbol names unz* -> cpl_unz*
2007-2008 - Even Rouault - Remove old C style function prototypes
2007-2008 - Even Rouault - Add unzip support for ZIP64

Copyright (C) 2007-2008 Even Rouault

Oct-2009 - Mathias Svensson - Removed cpl_* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).
Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G
should only read the compressed/uncompressed size from the Zip64 format if
the size from normal header was 0xFFFFFFFF
Oct-2009 - Mathias Svensson - Applied some bug fixes from paches recived from Gilles Vollant
Oct-2009 - Mathias Svensson - Applied support to unzip files with compression mathod
BZIP2 (bzip2 lib is required)
Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

Copyright (C) 1998 - 2010 Gilles Vollant, Even Rouault, Mathias Svensson

*/

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.c
No license file was found, but licenses were detected in source scan.

/* infcover.c -- test zlib's inflate routines with full code coverage
* Copyright (C) 2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/infcover.c
No license file was found, but licenses were detected in source scan.

Not copyrighted -- provided to the public domain

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zlib_how.html
No license file was found, but licenses were detected in source scan.

/* inflate.c -- zlib decompression
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.c

No license file was found, but licenses were detected in source scan.

```
/* unzip.h -- IO for uncompress .zip files using zlib
  Version 1.1, February 14h, 2010
  part of the MiniZip project - ( http://www.winimage.com/zLibDll/minizip.html )

        Copyright (C) 1998-2010 Gilles Vollant (minizip) ( http://www.winimage.com/zLibDll/minizip.html )

        Modifications of Unzip for Zip64
        Copyright (C) 2007-2008 Even Rouault

        Modifications for Zip64 support on both zip and unzip
        Copyright (C) 2009-2010 Mathias Svensson ( http://result42.com )

        For more info read MiniZip_info.txt

        ---------------------------------------------------------------------------------

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 2. Altered source versions must be plainly marked as such, and must not be
    misrepresented as being the original software.
 3. This notice may not be removed or altered from any source distribution.

 ---------------------------------------------------------------------------------

       Changes

       See header of unzip64.c

*/
```

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.h

No license file was found, but licenses were detected in source scan.

```
/* zpipe.c: example of proper use of zlib's inflate() and deflate()
  Not copyrighted -- provided to the public domain
  Version 1.4  11 December 2005  Mark Adler */
```

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zpipe.c
No license file was found, but licenses were detected in source scan.

```
/* gzappend -- command to append to a gzip file

 Copyright (C) 2003, 2012 Mark Adler, all rights reserved
 version 1.2, 11 Oct 2012

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    misrepresented as being the original software.
 3. This notice may not be
 removed or altered from any source distribution.

 Mark Adler    madler@alumni.caltech.edu
*/
```

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzappend.c
No license file was found, but licenses were detected in source scan.

```
/* gzclose.c -- zlib gzclose() function
* Copyright (C) 2004, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzclose.c

No license file was found, but licenses were detected in source scan.

/* inffast.h -- header to use inffast.c
* Copyright (C) 1995-2003, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.h
No license file was found, but licenses were detected in source scan.

/* zran.c -- example of zlib/gzip stream indexing and random access
* Copyright (C) 2005, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
  Version 1.1 29 Sep 2012 Mark Adler */

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zran.c
No license file was found, but licenses were detected in source scan.

/*
* gzlog.c
* Copyright (C) 2004, 2008, 2012, 2016 Mark Adler, all rights reserved
* For conditions of distribution and use, see copyright notice in gzlog.h
* version 2.2, 14 Aug 2012
*/

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.c
No license file was found, but licenses were detected in source scan.

/* trees.c -- output deflated data using Huffman coding
* Copyright (C) 1995-2017 Jean-loup Gailly
* detect_data_type() function provided freely by Cosmin Truta, 2006
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/trees.c
No license file was found, but licenses were detected in source scan.

/* infback.c -- inflate using a call-back interface
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infback.c
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Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.3
No license file was found, but licenses were detected in source scan.

MiniZip - Copyright (c) 1998-2010 - by Gilles Vollant - version 1.1 64 bits from Mathias Svensson

Introduction

MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant (http://www.winimage.com/zLibDll/minizip.html)

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0.
All possible work was done for compatibility.

Background

When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64
support for unzip.c into minizip for a open source project called gdal (http://www.gdal.org/)

That was used as a starting point. And after that ZIP64 support was added to zip.c
some refactoring and code cleanup was also done.

Changed from MiniZip 1.0 to MiniZip 1.1
---
* Added ZIP64 support for unzip (by Even Rouault)
* Added ZIP64 support for zip (by Mathias Svensson
)
* Reverted some changed that Even Rouault did.
* Bunch of patches received from Gulles Vollant that he received for MiniZip from various users.
* Added unzip patch for BZIP Compression method (patch create by Daniel Borca)
* Added BZIP Compress method for zip
* Did some refactoring and code cleanup

Credits

Gilles Vollant - Original MiniZip author
Even Rouault - ZIP64 unzip Support

Daniel Borca - BZip Compression method support in unzip
Mathias Svensson - ZIP64 zip support
Mathias Svensson - BZip Compression method support in zip

Resources

ZipLayout http://result42.com/projects/ZipFileLayout
Command line tool for Windows that shows the layout and information of the headers in a zip archive.
Used when debugging and validating the creation of zip files using MiniZip64

ZIP App Note http://www.pkware.com/documents/casestudies/APPNOTE.TXT
Zip File specification

Notes.
* To be able to use BZip compression method in
zip64.c or unzip64.c the BZIP2 lib is needed and HAVE_BZIP2 need to be defined.

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2. Altered source versions must be plainly marked as such, and must not be
misrepresented as being the original software.
3. This notice may
not be removed or altered from any source distribution.

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/MiniZip64_info.txt
No license file was found, but licenses were detected in source scan.

/* gzread.c -- zlib functions for reading gzip files

* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzread.c
No license file was found, but licenses were detected in source scan.

/* gzguts.h -- zlib internal header definitions for gz* operations
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzguts.h
No license file was found, but licenses were detected in source scan.

/* adler32.c -- compute the Adler-32 checksum of a data stream
* Copyright (C) 1995-2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/adler32.c
No license file was found, but licenses were detected in source scan.

/* gzjoin -- command to join gzip files into one gzip file

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version 1.2, 14 Aug 2012

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Mark Adler madler@alumni.caltech.edu
*/

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzjoin.c
No license file was found, but licenses were detected in source scan.

/* inflate.h -- internal inflate state definition
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.h
No license file was found, but licenses were detected in source scan.

/* zip.h -- IO on .zip files using zlib
Version 1.1, February 14h, 2010
part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

Modifications for Zip64 support
Copyright (C) 2009-2010 Mathias Svensson (http://result42.com)

For more info read MiniZip_info.txt

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```
    ---------------------------------------------------------------------------

    Changes

    See header of zip.h

*/
```

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/zip.h
No license file was found, but licenses were detected in source scan.

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
  version 1.2.11, January 15th, 2017

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  jloup@gzip.org          madler@alumni.caltech.edu


  The data format used by the zlib library is described by RFCs (Request for
  Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950
  (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/
```

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.h
No license file was found, but licenses were detected in source scan.

/* inffast.c -- fast decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.c
No license file was found, but licenses were detected in source scan.

/* zconf.h -- configuration of the zlib compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.cmakein
No license file was found, but licenses were detected in source scan.

/* deflate.h -- internal compression state
* Copyright (C) 1995-2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.h
No license file was found, but licenses were detected in source scan.

/* deflate.c -- compress data using the deflation algorithm
* Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.c
No license file was found, but licenses were detected in source scan.

/* example.c -- usage example of the zlib compression library
* Copyright (C) 1995-2006, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/example.c

No license file was found, but licenses were detected in source scan.

/* inftrees.h -- header to use inftrees.c
* Copyright (C) 1995-2005, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.h
No license file was found, but licenses were detected in source scan.

/* zutil.h -- internal interface and configuration of the compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.h
No license file was found, but licenses were detected in source scan.

/* gzlog.h
 Copyright (C) 2004, 2008, 2012 Mark Adler, all rights reserved
 version 2.2, 14 Aug 2012

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 Mark Adler   madler@alumni.caltech.edu
*/

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.h

No license file was found, but licenses were detected in source scan.

/* minigzip.c -- simulate gzip using the zlib compression library
* Copyright (C) 1995-2006, 2010, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/minigzip.c
No license file was found, but licenses were detected in source scan.

/*
 Additional tools for Minizip
 Code: Xavier Roche '2004
 License: Same as ZLIB (www.gzip.org)
*/

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.c
No license file was found, but licenses were detected in source scan.

/* gzlib.c -- zlib functions common to reading and writing gzip files
* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzlib.c
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For conditions of distribution and use, see copyright notice in zlib.h

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/os2/Makefile.os2
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/Makefile.emx
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.dj2
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.emx
No license file was found, but licenses were detected in source scan.

/* gun.c -- simple gunzip to give an example of the use of inflateBack()

* Copyright (C) 2003, 2005, 2008, 2010, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
  Version 1.7 12 August 2012 Mark Adler */

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gun.c
No license file was found, but licenses were detected in source scan.

/* gzwrite.c -- zlib functions for writing gzip files
* Copyright (C) 2004-2017 Mark Adler
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*/

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzwrite.c
No license file was found, but licenses were detected in source scan.

/* crc32.c -- compute the CRC-32 of a data stream
* Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*
* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster
* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing
* tables for updating the shift register in one step with three exclusive-ors
* instead of four steps with four exclusive-ors. This results in about a
* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.
*/

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/crc32.c
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ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is
thread safe. The data format used by the zlib library is described by RFCs
(Request for Comments) 1950 to 1952 in the files
http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and
rfc1952 (gzip format).

All functions of the compression library are documented in the file zlib.h
(volunteer to write man pages welcome, contact zlib@gzip.org). A usage example
of the library is given in the file test/example.c which also tests that
the library is working correctly. Another example is given in the file
test/minigzip.c. The compression library itself is composed of all source
files in the root directory.

To compile all files and run the test program, follow the instructions given at the top of Makefile.in. In short "./configure; make test", and if that goes well, "make install" should work for most flavors of Unix. For Windows, use one of the special makefiles in win32/ or contrib/vstudio/ . For VMS, use make_vms.com.

Questions about zlib should be sent to <zlib@gzip.org>, or to Gilles Vollant <info@winimage.com> for the Windows DLL version. The zlib home page is http://zlib.net/ . Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ http://zlib.net/zlib_faq.html before asking for help.

Mark Nelson <markn@ieee.org> wrote an article about zlib for the Jan. 1997 issue of Dr. Dobb's Journal; a copy of the article is available at http://marknelson.us/1997/01/01/zlib-engine/ .

The changes made in version 1.2.11 are documented in the file ChangeLog.

Unsupported third party contributions are provided in directory contrib/ .

zlib is available in Java using the java.util.zip package, documented at http://java.sun.com/developer/technicalArticles/Programming/compression/ .

A Perl interface to zlib written by Paul Marquess <pmqs@cpan.org> is available at CPAN (Comprehensive Perl Archive Network) sites, including http://search.cpan.org/~pmqs/IO-Compress-Zlib/ .

A Python interface to zlib written by A.M. Kuchling <amk@amk.ca> is available in Python 1.5 and later versions, see http://docs.python.org/library/zlib.html .

zlib is built into tcl: http://wiki.tcl.tk/4610 .

An experimental package to read and write files in .zip format, written on top of zlib by Gilles Vollant <info@winimage.com>, is available in the contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL_FAQ.txt

- For 64-bit Irix, deflate.c must be compiled without any optimization. With -O, one libpng test fails. The test works in 32 bit mode (with the -n32

compiler flag). The compiler bug has been reported to SGI.

- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under
OSF/1 2.1 it works
when compiled with cc.

- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is
necessary to get gzprintf working correctly. This is done by configure.

- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with
other compilers. Use "make test" to check your compiler.

- gzdopen is not supported on RISCOS or BEOS.

- For PalmOs, see http://palmzlib.sourceforge.net/

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and
zlib specifications were written by L. Peter Deutsch. Thanks to all the
people who reported problems and suggested various improvements in zlib; they
are too numerous to cite here.

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jloup@gzip.org madler@alumni.caltech.edu

If you use the zlib library in a product, we would appreciate *not* receiving
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* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/README
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/* compress.c -- compress a memory buffer
* Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/compress.c
No license file was found, but licenses were detected in source scan.

/* uncompr.c -- decompress a memory buffer
* Copyright (C) 1995-2003, 2010, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/uncompr.c
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/* zutil.c -- target dependent utility functions for the compression library
* Copyright (C) 1995-2017 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.c
No license file was found, but licenses were detected in source scan.

/* inftrees.c -- generate Huffman trees for efficient decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1719941417_1686646703.8183746/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.c

1.1525 genisoimage 1.1.11-3.2ubuntu1

1.1525.1 Available under license :

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Foundation, but the instance of code that it refers to (the mkisofs
utility is copyrighted by Yggdrasil Computing, Incorporated).

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Version 2, June 1991

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lib/erl/src/Makefile.am

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```
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```

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```
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*/
```

(By Douglas Crockford <douglas@crockford.com>)

For lib/cpp/src/thrift/windows/SocketPair.cpp

```
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*/
```

For lib/py/compat/win32/stdint.h

// ISO C9x compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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1.1528 go.opentelemetry.io/otel/trace 1.16.0

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lib/erl/src/Makefile.am

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components:

```
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```
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*/
```
(By Douglas Crockford <douglas@crockford.com>)

For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
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For lib/py/compat/win32/stdint.h

// ISO C9x compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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//
///

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 in t_html_generator.h

* Bootstrap v2.0.3

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1.1529 libcap 2.44-1ubuntu0.22.04.1

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1.1533 init-system-helpers 1.65.2

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1.1534 sha256-simd 1.0.1

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1.1537 jackson-databind 2.15.2

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1.1538 jsonpointer 2.0

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1.1539 klog 2.100.1

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1.1540 x-sys 0.9.0

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1.1542 x-oauth2 0.8.0

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1.1543 python-setuptools 68.0.0

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1.1544 libproc2-0 4.0.2-3

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table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that
any
application-supplied function or table used by this function must
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1.1545 libicu72 72.1-3

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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
```

```
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation
 rules
%.$(STATIC_O): $(srcdir)/%.c
 $(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
 $(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
 $(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
 $(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<


## Dependency rules
%.d: $(srcdir)/%.c
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.c) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.cc) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'
```

```
## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
 $(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
 $(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

##  Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup
```

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File: aclocal.m4 (only for ICU4C)
Section: pkg.m4 - Macros to locate and utilise pkg-config.

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// SPDX Document for version 2.3 of the spec.
type OtherLicense struct {
 // 10.1: License Identifier: "LicenseRef-[idstring]"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 10.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //              License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 10.3: License Name: single line of text or "NOASSERTION"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseName string `json:"name,omitempty"`

 // 10.4: License Cross Reference
 // Cardinality: conditional (optional, one or many) if license
 //              is not on SPDX License List
 LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

 //
 10.5: License Comment
 // Cardinality: optional, one
 LicenseComment string `json:"comment,omitempty"`
}
```

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 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 10.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //              License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 10.3: License Name: single line of text or "NOASSERTION"
 // Cardinality: conditional (mandatory, one) if license is not
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 LicenseName string `json:"name,omitempty"`

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 // Cardinality: conditional (optional, one or many) if license
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 // Cardinality: optional, one
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}
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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github.com/pelletier/go-toml:

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localtime.go, localtime_test.go:

Originals:
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Changes:
  * Renamed files from civil* to localtime*.
  * Package changed from civil to toml.
  * 'Local' prefix added to all structs.
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1.1549 json-c 0.16.20220414

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Flask Extension Development
==========

Flask, being a microframework, often requires some repetitive steps to get
a third party library working. Many such extensions are already available
on `PyPI`_.

If you want to create your own Flask extension for something that does not
exist yet, this guide to extension development will help you get your
extension running in no time and to feel like users would expect your
extension to behave.

Anatomy of an Extension

Extensions are all located in a package called ``flask_something``
where "something" is the name of the library you want to bridge. So for
example if you plan to add support for a library named `simplexml` to
Flask, you would name your extension's package ``flask_simplexml``.

The name of the actual extension (the human readable name) however would
be something like "Flask-SimpleXML". Make sure to include the name
"Flask"
somewhere in that name and that you check the capitalization.
This is how users can then register dependencies to your extension in
their :file:`setup.py` files.

But what do extensions look like themselves? An extension has to ensure
that it works with multiple Flask application instances at once. This is
a requirement because many people will use patterns like the
:doc:`/patterns/appfactories` pattern to create their application as
needed to aid unittests and to support multiple configurations. Because

of that it is crucial that your application supports that kind of
behavior.

Most importantly the extension must be shipped with a :file:`setup.py` file and
registered on PyPI. Also the development checkout link should work so
that people can easily install the development version into their
virtualenv without having to download the library by hand.

Flask extensions must be licensed under a BSD, MIT or more liberal license
in order to be listed in the Flask Extension Registry.
 Keep in mind
that the Flask Extension Registry is a moderated place and libraries will
be reviewed upfront if they behave as required.

"Hello Flaskext!"

So let's get started with creating such a Flask extension. The extension
we want to create here will provide very basic support for SQLite3.

First we create the following folder structure::

```
flask-sqlite3/
    flask_sqlite3.py
    LICENSE
    README
```

Here's the contents of the most important files:

setup.py
```

The next file that is absolutely required is the :file:`setup.py` file which is
used to install your Flask extension.  The following contents are
something you can work with::

```
"""
Flask-SQLite3

This is the description for that library
"""
from setuptools import setup

setup(
    name='Flask-SQLite3',
    version='1.0',
```
```

```
    url='http://example.com/flask-sqlite3/',
    license='BSD',
    author='Your Name',
    author_email='your-email@example.com',
     description='Very short description',
    long_description=__doc__,
    py_modules=['flask_sqlite3'],
    # if you would be using a package instead use packages instead
    # of py_modules:
    # packages=['flask_sqlite3'],
    zip_safe=False,
    include_package_data=True,
    platforms='any',
    install_requires=[
        'Flask'
    ],
    classifiers=[
        'Environment :: Web Environment',
        'Intended Audience :: Developers',
        'License :: OSI Approved :: BSD License',
        'Operating System :: OS Independent',
        'Programming Language :: Python',
        'Topic :: Internet :: WWW/HTTP :: Dynamic Content',
        'Topic :: Software Development :: Libraries :: Python Modules'
    ]
)
```

That's a lot of code but you can really just copy/paste that from existing extensions and adapt.

flask_sqlite3.py
``` ```

Now this is where your
 extension code goes. But how exactly should such
an extension look like? What are the best practices? Continue reading
for some insight.

Initializing Extensions

Many extensions will need some kind of initialization step. For example, consider an application that's currently connecting to SQLite like the documentation suggests (:doc:`/patterns/sqlite3`). So how does the extension know the name of the application object?

Quite simple: you pass it to it.
```

There are two recommended ways for an extension to initialize:

initialization functions:

If your extension is called `helloworld` you might have a function called ``init_helloworld(app[, extra_args])`` that initializes the extension for that application. It could attach before / after handlers etc.

classes:

Classes work mostly like initialization functions but can later be used to further change the behavior.

What to use depends on what you have in mind. For the SQLite 3 extension we will use the class-based approach because it will provide users with an object that handles opening and closing database connections.

When designing your classes, it's important to make them easily reusable at the module level. This means the object itself must not under any circumstances store any application specific state and must be shareable between different applications.

The Extension Code

Here's the contents of the `flask_sqlite3.py` for copy/paste::

```
import sqlite3
from flask import current_app, _app_ctx_stack


class SQLite3(object):
    def __init__(self, app=None):
        self.app = app
        if app is not None:
            self.init_app(app)

    def init_app(self, app):
        app.config.setdefault('SQLITE3_DATABASE', ':memory:')
        app.teardown_appcontext(self.teardown)

    def connect(self):
        return sqlite3.connect(current_app.config['SQLITE3_DATABASE'])

    def teardown(self,
```

```
 exception):
        ctx = _app_ctx_stack.top
        if hasattr(ctx, 'sqlite3_db'):
            ctx.sqlite3_db.close()

    @property
    def connection(self):
        ctx = _app_ctx_stack.top
        if ctx is not None:
            if not hasattr(ctx, 'sqlite3_db'):
                ctx.sqlite3_db = self.connect()
            return ctx.sqlite3_db
```

So here's what these lines of code do:

1. The ``__init__`` method takes an optional app object and, if supplied, will call ``init_app``.
2. The ``init_app`` method exists so that the ``SQLite3`` object can be instantiated without requiring an app object. This method supports the factory pattern for creating applications. The ``init_app`` will set the configuration for the database, defaulting to an in memory database if no configuration is supplied. In addition, the ``init_app`` method attaches the ``teardown`` handler.
3. Next, we define a ``connect`` method that opens a database connection.
4. Finally, we add a ``connection`` property that on first access opens the database connection and stores it on the context. This is also the recommended way to handling resources: fetch resources lazily the first time they are used.

   Note here that we're attaching our database connection to the top application context via ``_app_ctx_stack.top``. Extensions should use the top context for storing their own information with a sufficiently complex name.

So why did we decide on a class-based approach here? Because using our extension looks something like this::

```
from flask import Flask
from flask_sqlite3 import SQLite3

app = Flask(__name__)
app.config.from_pyfile('the-config.cfg')
db = SQLite3(app)
```

You can then use the database from views like this::

```
@app.route('/')
def show_all():
    cur = db.connection.cursor()
    cur.execute(...)
```

Likewise if you are outside of a request you can use
 the database by
pushing an app context::

```
with app.app_context():
    cur = db.connection.cursor()
    cur.execute(...)
```

At the end of the ``with`` block the teardown handles will be executed
automatically.

Additionally, the ``init_app`` method is used to support the factory pattern
for creating apps::

```
db = SQLite3()
# Then later on.
app = create_app('the-config.cfg')
db.init_app(app)
```

Keep in mind that supporting this factory pattern for creating apps is required
for approved flask extensions (described below).

.. admonition:: Note on ``init_app``

As you noticed, ``init_app`` does not assign ``app`` to ``self``. This
is intentional! Class based Flask extensions must only store the
application on the object when the application was passed to the
constructor. This tells the extension: I am not interested in using
multiple applications.

When the extension needs to find the current application and it does
not have a reference to it,
it must either use the
:data:`~flask.current_app` context local or change the API in a way
that you can pass the application explicitly.

Using _app_ctx_stack

In the example above, before every request, a ``sqlite3_db`` variable is
assigned to ``_app_ctx_stack.top``. In a view function, this variable is
accessible using the ``connection`` property of ``SQLite3``. During the

teardown of a request, the ``sqlite3_db`` connection is closed. By using
this pattern, the *same* connection to the sqlite3 database is accessible
to anything that needs it for the duration of the request.

Learn from Others

This documentation only touches the bare minimum for extension development.
If you want to learn more, it's a very good idea to check out existing extensions
on the `PyPI`_. If you feel lost there is still the `mailinglist`_ and the
`Discord server`_ to get some ideas for nice looking APIs. Especially if you do
something nobody before you did,
it might be a very good idea to get some more
input. This not only generates useful feedback on what people might want from
an extension, but also avoids having multiple developers working in isolation
on pretty much the same problem.

Remember: good API design is hard, so introduce your project on the
mailing list, and let other developers give you a helping hand with
designing the API.

The best Flask extensions are extensions that share common idioms for the
API. And this can only work if collaboration happens early.

Approved Extensions

Flask previously had the concept of approved extensions. These came with
some vetting of support and compatibility. While this list became too
difficult to maintain over time, the guidelines are still relevant to
all extensions maintained and developed today, as they help the Flask
ecosystem remain consistent and compatible.

0. An approved Flask extension requires a maintainer. In the event an
   extension author would
 like to move beyond the project, the project
   should find a new maintainer and transfer access to the repository,
   documentation, PyPI, and any other services. If no maintainer
   is available, give access to the Pallets core team.
1. The naming scheme is *Flask-ExtensionName* or *ExtensionName-Flask*.
   It must provide exactly one package or module named
   ``flask_extension_name``.
2. The extension must be BSD or MIT licensed. It must be open source
   and publicly available.
3. The extension's API must have the following characteristics:

   - It must support multiple applications running in the same Python

process. Use ``current_app`` instead of ``self.app``, store
configuration and state per application instance.
- It must be possible to use the factory pattern for creating
applications. Use the ``ext.init_app()`` pattern.

4. From a clone of the repository, an extension with its dependencies
must be installable with ``pip install
-e .``.
5. It must ship a testing suite that can be invoked with ``tox -e py``
or ``pytest``. If not using ``tox``, the test dependencies should be
specified in a ``requirements.txt`` file. The tests must be part of
the sdist distribution.
6. The documentation must use the ``flask`` theme from the
`Official Pallets Themes`_. A link to the documentation or project
website must be in the PyPI metadata or the readme.
7. For maximum compatibility, the extension should support the same
versions of Python that Flask supports. 3.6+ is recommended as of
2020. Use ``python_requires=">= 3.6"`` in ``setup.py`` to indicate
supported versions.

.. _PyPI: https://pypi.org/search/?c=Framework+%3A%3A+Flask
.. _mailinglist: https://mail.python.org/mailman/listinfo/flask
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* /opt/cola/permits/1725809409_1687432988.269037/0/flask-2-0-1-orig-1-tar-gz/Flask-2.0.1/docs/extensiondev.rst
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Flask leverages Jinja2 as its template engine. You are obviously free to use

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name = Flask
version = attr: flask.__version__
url = https://palletsprojects.com/p/flask
project_urls =
Donate = https://palletsprojects.com/donate
Documentation = https://flask.palletsprojects.com/
Changes = https://flask.palletsprojects.com/changes/
Source Code = https://github.com/pallets/flask/
Issue Tracker = https://github.com/pallets/flask/issues/
Twitter = https://twitter.com/PalletsTeam
Chat = https://discord.gg/pallets

```
license = BSD-3-Clause
author = Armin Ronacher
author_email = armin.ronacher@active-4.com
maintainer = Pallets
maintainer_email = contact@palletsprojects.com
description = A simple framework for building complex web applications.
long_description = file: README.rst
long_description_content_type = text/x-rst
classifiers =
 Development Status :: 5 - Production/Stable
 Environment :: Web Environment
 Framework :: Flask
 Intended Audience :: Developers
 License :: OSI Approved
 :: BSD License
 Operating System :: OS Independent
 Programming Language :: Python
 Topic :: Internet :: WWW/HTTP :: Dynamic Content
 Topic :: Internet :: WWW/HTTP :: WSGI
 Topic :: Internet :: WWW/HTTP :: WSGI :: Application
 Topic :: Software Development :: Libraries :: Application Frameworks

[options]
packages = find:
package_dir = = src
include_package_data = true
python_requires = >= 3.6

[options.packages.find]
where = src

[options.entry_points]
console_scripts =
 flask = flask.cli:main

[tool:pytest]
testpaths = tests
filterwarnings =
 error

[coverage:run]
branch = True
source =
 flask
 tests

[coverage:paths]
source =
```

```
 src
 */site-packages

[flake8]
select = B, E, F, W, B9, ISC
ignore =
 E203
 E402
 E501
 E722
 W503
max-line-length = 80
per-file-ignores =
 src/flask/__init__.py: F401

[mypy]
files = src/flask
python_version = 3.6
allow_redefinition = True
disallow_subclassing_any = True
no_implicit_optional = True
local_partial_types = True
strict_equality = True
warn_redundant_casts
 = True
warn_unused_configs = True
warn_unused_ignores = True

[mypy-asgiref.*]
ignore_missing_imports = True

[mypy-blinker.*]
ignore_missing_imports = True

[mypy-dotenv.*]
ignore_missing_imports = True

[egg_info]
tag_build =
tag_date = 0
```

Found in path(s):
* /opt/cola/permits/1725809409_1687432988.269037/0/flask-2-0-1-orig-1-tar-gz/Flask-2.0.1/setup.cfg

1.1553 github.com/aws/aws-sdk-go-v2/feature/ec2/imds 1.12.1

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1.1554 github.com/aws/aws-sdk-go-v2/service/sts 1.16.1

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1.1555 github.com/aws/aws-sdk-go-v2/service/sso 1.11.1

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1.1566 go-autorest 0.11.29

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1.1567 go.opentelemetry.io/otel/exporters/otlp/otlptrace/otlptracegrpc 1.16.0

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components:

```
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```

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```
/*
  json_parse.js
  2015-05-02
```

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*/
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// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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1.1568 go.opentelemetry.io/otel/exporters/otlp/otlptrace 1.16.0

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```

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```
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lib/erl/src/Makefile.am

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```
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```

For the lib/nodejs/lib/thrift/json_parse.js:

```
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*/
```

(By Douglas Crockford <douglas@crockford.com>)

For lib/cpp/src/thrift/windows/SocketPair.cpp

```
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*/
```

For lib/py/compat/win32/stdint.h

```
// ISO C9x  compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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```

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 in t_html_generator.h

```
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*
```

* Designed and built with all the love in the world @twitter by @mdo and @fat.

For t_cl_generator.cc

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1.1570 prometheus-client 1.16.0

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1.1571 jackson-dataformat-yaml 2.15.0

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1.1573 jackson-dataformat-yaml 2.15.2

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1.1583 ipset 7.15-1build1

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1.1588 libburn 1.5.4-1

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1.1590 github.com/fullsailor/pkcs7 0.0.0-20190404230743-d7302db945fa

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1.1591 netlink 1.2.1-beta.2

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1.1595 kubernetes-api 0.26.2

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1.1596 go-patricia 2.3.1

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1.1605 golang-org-x-exp 0.0.0-20230713183714-613f0c0eb8a1

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1.1606 github.com/centrifugal/protocol 0.10.0

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1.1608 github.com/segmentio/asm 1.2.0

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1.1611 github.com/segmentio/encoding 0.3.6

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1.1612 invopop-yaml 0.2.0

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1.1613 github.com/invopop/yaml 0.2.0

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1.1614 libxml2 2.9.14+dfsg-1.3~deb12u1

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1.1615 grafana-ansible-collection 2.1.4

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```
<!-- Creator     : groff version 1.20.1 -->
<!-- CreationDate: Fri Jan 14 19:57:50 2011 -->
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta name="generator" content="groff -Thtml, see www.gnu.org">
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<meta name="Content-Style" content="text/css">
<link rel="stylesheet" type="text/css" href="texi2tr.css" />
<title>GNU Modula-2</title>
</head>

<body>
 <!-- site wide top running header menu -->

 <ul id="overview">
   <li class="home">
     HOME_HREF
   </li>
   <li class="release">
     12_HREF
   </li>

   <li>
     <a href="news.html" title="News">News</a>
   </li>
   <li>
     <a href="development.html" title="Development">Development</a>
   </li>
   <li>
     <a href="community.html" title="Community">Community</a>
   </li>
 </ul>
```

```
<div id="header">
  <h1>
    <span style="display:inline-block; vertical-align:middle">
<img
src="200px-Heckert_GNU_white.png" alt="Heckert_GNU_white.png">
    </span>
    <span style="display:inline-block; vertical-align:middle; font-size: 50px">
GNU Modula-2
    </span>
  </h1>

  <!-- homepage tab menu -->

  <div id="tabmenu">
    <ul id="tab">
<li><a href="about.html"><span>About</span></a></li>
<li><a href="download.html"><span>Download</span></a></li>
<li><a href="release.html"><span>Latest Release</span></a></li>
<li class="selected"><a href="license.html"><span>License</span></a></li>
<li><a href="platforms.html"><span>Platforms</span></a></li>
<li><a href="users.html"><span>Users</span></a></li>
    </ul>
  </div>
</div>

<div id="page">
 <div class="plain">
   <h2>The home of the GNU Modula-2 compiler</h2>
   <p>The compiler is held under the GNU Public Licence v3.</p>
   <p>The ISO and PIM libraries are under the GPL v3.1 with GCC runtime extensions.  Copies of the
     licences can be found on the
     <a href="http://www.gnu.org/licenses">GNU</a>
 web site.</p>
 </div>
</div>
</body>
</html>
```

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1.1619 signal-exit 4.1.0

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Version 3.1, 31 March 2009

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.1624 githubcommiekgdns 1.1.55

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(CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no

2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3				
2.3.2	2002-2003	PSF	yes	
2.3.4	2.3.3	2004	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4.1	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes

Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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<!-- CreationDate: Fri Jan 14 19:57:50 2011 -->
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<head>
<meta name="generator" content="groff -Thtml, see www.gnu.org">
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<meta name="Content-Style" content="text/css">
<link rel="stylesheet" type="text/css" href="texi2tr.css" />
<title>GNU Modula-2</title>
</head>

<body>
 <!-- site wide top running header menu -->

 <ul id="overview">
   <li class="home">

```
    HOME_HREF
  </li>
  <li class="release">
    12_HREF
  </li>

  <li>
    <a href="news.html" title="News">News</a>
  </li>
  <li>
    <a href="development.html" title="Development">Development</a>
  </li>
  <li>
    <a href="community.html" title="Community">Community</a>
  </li>
</ul>

<div id="header">
  <h1>
    <span style="display:inline-block; vertical-align:middle">
<img
src="200px-Heckert_GNU_white.png" alt="Heckert_GNU_white.png">
    </span>
    <span style="display:inline-block; vertical-align:middle; font-size: 50px">
GNU Modula-2
    </span>
  </h1>

  <!-- homepage tab menu -->

  <div id="tabmenu">
    <ul id="tab">
<li><a href="about.html"><span>About</span></a></li>
<li><a href="download.html"><span>Download</span></a></li>
<li><a href="release.html"><span>Latest Release</span></a></li>
<li class="selected"><a href="license.html"><span>License</span></a></li>
<li><a href="platforms.html"><span>Platforms</span></a></li>
<li><a href="users.html"><span>Users</span></a></li>
    </ul>
  </div>
</div>

<div id="page">
 <div class="plain">
   <h2>The home of the GNU Modula-2 compiler</h2>
   <p>The compiler is held under the GNU Public Licence v3.</p>
   <p>The ISO and PIM libraries are under the GPL v3.1 with GCC runtime extensions.  Copies of the
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GNU
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1.1629 libunwind 1.3.2-2build2.1

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1.1630 gax-go 2.12.0

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1.1631 go-openapi-jsonpointer 0.20.0

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1.1632 x-oauth2 0.10.0

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1.1633 zap 1.25.0

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1.1634 cockroachdb-errors 1.9.1

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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02110-1301, USA. */
<!-- Creator : groff version 1.20.1 -->
<!-- CreationDate: Fri Jan 14 19:57:50 2011 -->
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta name="generator" content="groff -Thtml, see www.gnu.org">
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<meta name="Content-Style" content="text/css">
<link rel="stylesheet" type="text/css" href="texi2tr.css" />
<title>GNU Modula-2</title>
</head>

<body>
<!-- site wide top running header menu -->

<ul id="overview">
<li class="home">
HOME_HREF

<li class="release">
11_HREF


```
    <a href="news.html" title="News">News</a>
  </li>
  <li>
    <a href="development.html" title="Development">Development</a>
  </li>
  <li>
    <a href="community.html" title="Community">Community</a>
  </li>
</ul>

<div id="header">
  <h1>
    <span style="display:inline-block; vertical-align:middle">
<img
src="200px-Heckert_GNU_white.png" alt="Heckert_GNU_white.png">
    </span>
    <span style="display:inline-block; vertical-align:middle; font-size: 50px">
GNU Modula-2
    </span>
  </h1>

  <!-- homepage tab menu -->

  <div id="tabmenu">
    <ul id="tab">
<li><a href="about.html"><span>About</span></a></li>
<li><a href="download.html"><span>Download</span></a></li>
<li><a href="release.html"><span>Latest Release</span></a></li>
<li class="selected"><a href="license.html"><span>License</span></a></li>
<li><a href="platforms.html"><span>Platforms</span></a></li>
<li><a href="users.html"><span>Users</span></a></li>
    </ul>
  </div>
</div>

<div id="page">
 <div class="plain">
  <h2>The home of the GNU Modula-2 compiler</h2>
  <p>The compiler is held under the GNU Public Licence v3.</p>
  <p>The ISO and PIM libraries are under the GPL v3.1 with GCC runtime extensions.  Copies of the
    licences can be found on the
    <a href="http://www.gnu.org/licenses">GNU</a>
 web site.</p>
 </div>
</div>
</body>
</html>
```

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This is the Debian GNU/Linux prepackaged version of the GNU compiler
collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C,
Objective-C++, and Modula-2 compilers, documentation, and support
libraries. In addition, Debian provides the gm2 compiler, either in
the same source package, or built from a separate same source package.
Packaging is done by the Debian GCC Maintainers
<debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
svn://gcc.gnu.org/svn/gcc/ (for prereleases)
ftp://sourceware.org/pub/newlib/ (for newlib)
git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-11 source package is taken from the SVN gcc-11-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language,
library, and documentation as follows:

Language	Compiler package	Library package	Documentation
Ada	gnat-11	libgnat-11	gnat-11-doc
BRIG	gccbrig-11	libhsail-rt0	
C	gcc-11		gcc-11-doc
C++	g++-11	libstdc++6	libstdc++6-11-doc
D	gdc-11		
Fortran 95	gfortran-11	libgfortran5	gfortran-11-doc
Go	gccgo-11	libgo0	
Objective C	gobjc-11	libobjc4	
Objective C++	gobjc++-11		
Modula-2	gm2-11	libgm2	

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent
C++			libstdc++6-11-dbg	libstdc++6-11-pic
D	libphobos-11-dev			

Additional packages include:

All languages:
libgcc1,
libgcc2, libgcc4 GCC intrinsics (platform-dependent)
gcc-11-base Base files common to all compilers
gcc-11-soft-float Software floating point (ARM only)
gcc-11-source The sources with patches

Ada:
libgnat-util11-dev, libgnat-util11 GNAT version library

C:
cpp-11, cpp-11-doc GNU C Preprocessor
libssp0-dev, libssp0 GCC stack smashing protection library
libquadmath0 Math routines for the __float128 type
fixincludes Fix non-ANSI header files

C, C++ and Fortran 95:
libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library
libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can
also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libitm
- libssp
- libstdc++-v3
- libobjc
- libgfortran
- The libgnat-11 Ada support library and libgnat-util11
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- Various config files in gcc/config/ used in runtime libraries.
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Developed by:

LLVM Team

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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gdc-11 GNU D Compiler
libphobos-11-dev D standard runtime library

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The Phobos standard runtime library:
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DRuntime: Runtime Library for the D Programming Language
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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02110-1301, USA. */

```
<!-- Creator     : groff version 1.20.1 -->
<!-- CreationDate: Fri Jan 14 19:57:50 2011 -->
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta name="generator" content="groff -Thtml, see www.gnu.org">
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<meta name="Content-Style" content="text/css">
<link rel="stylesheet" type="text/css" href="texi2tr.css" />
<title>GNU Modula-2</title>
</head>

<body>
 <!-- site wide top running header menu -->

 <ul id="overview">
   <li class="home">
     HOME_HREF
   </li>
   <li class="release">
     11_HREF
   </li>

   <li>
     <a href="news.html" title="News">News</a>
   </li>
   <li>
     <a href="development.html" title="Development">Development</a>
   </li>
   <li>
     <a href="community.html" title="Community">Community</a>
   </li>
 </ul>
```

```
<div id="header">
  <h1>
    <span style="display:inline-block; vertical-align:middle">
<img
src="200px-Heckert_GNU_white.png" alt="Heckert_GNU_white.png">
    </span>
    <span style="display:inline-block; vertical-align:middle; font-size: 50px">
GNU Modula-2
    </span>
  </h1>

  <!-- homepage tab menu -->

  <div id="tabmenu">
    <ul id="tab">
<li><a href="about.html"><span>About</span></a></li>
<li><a href="download.html"><span>Download</span></a></li>
<li><a href="release.html"><span>Latest Release</span></a></li>
<li class="selected"><a href="license.html"><span>License</span></a></li>
<li><a href="platforms.html"><span>Platforms</span></a></li>
<li><a href="users.html"><span>Users</span></a></li>
    </ul>
  </div>
</div>

<div id="page">
 <div class="plain">
   <h2>The home of the GNU Modula-2 compiler</h2>
   <p>The compiler is held under the GNU Public Licence v3.</p>
   <p>The ISO and PIM libraries are under the GPL v3.1 with GCC runtime extensions.  Copies of the
     licences can be found on the
     <a href="http://www.gnu.org/licenses">GNU</a>
 web site.</p>
 </div>
</div>
</body>
</html>
```

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ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
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git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-11 source package is taken from the SVN gcc-11-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

Language	Compiler package	Library package	Documentation
Ada	gnat-11	libgnat-11	gnat-11-doc
BRIG	gccbrig-11	libhsail-rt0	
C	gcc-11		gcc-11-doc
C++	g++-11	libstdc++6	libstdc++6-11-doc
D	gdc-11		
Fortran 95	gfortran-11	libgfortran5	gfortran-11-doc
Go	gccgo-11	libgo0	
Objective C	gobjc-11	libobjc4	
Objective C++	gobjc++-11		
Modula-2	gm2-11	libgm2	

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent
C++			libstdc++6-11-dbg	libstdc++6-11-pic
D		libphobos-11-dev		

Additional packages include:

All languages:
libgcc1,

libgcc2, libgcc4 GCC intrinsics (platform-dependent)
gcc-11-base Base files common to all compilers
gcc-11-soft-float Software floating point (ARM only)
gcc-11-source The sources with patches

Ada:
libgnat-util11-dev, libgnat-util11 GNAT version library

C:
cpp-11, cpp-11-doc GNU C Preprocessor
libssp0-dev, libssp0 GCC stack smashing protection library
libquadmath0 Math routines for the __float128 type
fixincludes Fix non-ANSI header files

C, C++ and Fortran 95:
libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library
libitm1-dev, libitm1 GNU Transactional Memory Library

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D:
gdc-11 GNU D Compiler
libphobos-11-dev D standard runtime library

The D source package is made up of the following components.

The D front-end for GCC:
- d/*

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The DMD Compiler implementation of the D programming language:
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The Phobos standard runtime library:
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DRuntime: Runtime Library for the D Programming Language
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notice like this when it starts in an interactive mode:

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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```
<!-- Creator     : groff version 1.20.1 -->
<!-- CreationDate: Fri Jan 14 19:57:50 2011 -->
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta name="generator" content="groff -Thtml, see www.gnu.org">
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<meta name="Content-Style" content="text/css">
<link rel="stylesheet" type="text/css" href="texi2tr.css" />
<title>GNU Modula-2</title>
</head>

<body>
 <!-- site wide top running header menu -->

 <ul id="overview">
   <li class="home">
     HOME_HREF
   </li>
   <li class="release">
     12_HREF
   </li>

   <li>
     <a href="news.html" title="News">News</a>
   </li>
   <li>
     <a href="development.html" title="Development">Development</a>
   </li>
   <li>
     <a href="community.html" title="Community">Community</a>
   </li>
 </ul>

 <div id="header">
   <h1>
     <span style="display:inline-block; vertical-align:middle">
 <img
 src="200px-Heckert_GNU_white.png" alt="Heckert_GNU_white.png">
     </span>
     <span style="display:inline-block; vertical-align:middle; font-size: 50px">
 GNU Modula-2
     </span>
   </h1>
```

```
  <!-- homepage tab menu -->

  <div id="tabmenu">
    <ul id="tab">
 <li><a href="about.html"><span>About</span></a></li>
 <li><a href="download.html"><span>Download</span></a></li>
 <li><a href="release.html"><span>Latest Release</span></a></li>
 <li class="selected"><a href="license.html"><span>License</span></a></li>
 <li><a href="platforms.html"><span>Platforms</span></a></li>
 <li><a href="users.html"><span>Users</span></a></li>
    </ul>
  </div>
 </div>

<div id="page">
 <div class="plain">
  <h2>The home of the GNU Modula-2 compiler</h2>
  <p>The compiler is held under the GNU Public Licence v3.</p>
  <p>The ISO and PIM libraries are under the GPL v3.1 with GCC runtime extensions.  Copies of the
    licences can be found on the
    <a href="http://www.gnu.org/licenses">GNU</a>
 web site.</p>
 </div>
</div>
</body>
</html>
```

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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02110-1301, USA. */
<!-- Creator : groff version 1.20.1 -->
<!-- CreationDate: Fri Jan 14 19:57:50 2011 -->
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
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<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<meta name="Content-Style" content="text/css">
<link rel="stylesheet" type="text/css" href="texi2tr.css" />
<title>GNU Modula-2</title>
</head>

<body>

```
    <a href="news.html" title="News">News</a>
  </li>
  <li>
    <a href="development.html" title="Development">Development</a>
  </li>
  <li>
    <a href="community.html" title="Community">Community</a>
  </li>
</ul>

<div id="header">
  <h1>
    <span style="display:inline-block; vertical-align:middle">
<img
src="200px-Heckert_GNU_white.png" alt="Heckert_GNU_white.png">
    </span>
    <span style="display:inline-block; vertical-align:middle; font-size: 50px">
GNU Modula-2
    </span>
  </h1>

  <!-- homepage tab menu -->

  <div id="tabmenu">
    <ul id="tab">
<li><a href="about.html"><span>About</span></a></li>
<li><a href="download.html"><span>Download</span></a></li>
<li><a href="release.html"><span>Latest Release</span></a></li>
<li class="selected"><a href="license.html"><span>License</span></a></li>
<li><a href="platforms.html"><span>Platforms</span></a></li>
<li><a href="users.html"><span>Users</span></a></li>
    </ul>
  </div>
</div>

<div id="page">
 <div class="plain">
  <h2>The home of the GNU Modula-2 compiler</h2>
  <p>The compiler is held under the GNU Public Licence v3.</p>
  <p>The ISO and PIM libraries are under the GPL v3.1 with GCC runtime extensions.  Copies of the
    licences can be found on the
    <a href="http://www.gnu.org/licenses">GNU</a>
 web site.</p>
 </div>
</div>
</body>
</html>
```

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This is the Debian GNU/Linux prepackaged version of the GNU compiler
collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C,
Objective-C++, and Modula-2 compilers, documentation, and support
libraries. In addition, Debian provides the gm2 compiler, either in
the same source package, or built from a separate same source package.
Packaging is done by the Debian GCC Maintainers
<debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
svn://gcc.gnu.org/svn/gcc/ (for prereleases)
ftp://sourceware.org/pub/newlib/ (for newlib)
git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-11 source package is taken from the SVN gcc-11-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language,
library, and documentation as follows:

Language	Compiler package	Library package	Documentation
Ada	gnat-11	libgnat-11	gnat-11-doc
BRIG	gccbrig-11	libhsail-rt0	
C	gcc-11		gcc-11-doc
C++	g++-11	libstdc++6	libstdc++6-11-doc
D	gdc-11		
Fortran 95	gfortran-11	libgfortran5	gfortran-11-doc
Go	gccgo-11	libgo0	
Objective C	gobjc-11	libobjc4	
Objective C++	gobjc++-11		
Modula-2	gm2-11	libgm2	

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent
C++			libstdc++6-11-dbg	libstdc++6-11-pic
D	libphobos-11-dev			

Additional packages include:

All languages:

libgcc1, libgcc2, libgcc4	GCC intrinsics (platform-dependent)
gcc-11-base	Base files common to all compilers
gcc-11-soft-float	Software floating point (ARM only)
gcc-11-source	The sources with patches

Ada:

libgnat-util11-dev, libgnat-util11	GNAT version library

C:

cpp-11, cpp-11-doc	GNU C Preprocessor
libssp0-dev, libssp0	GCC stack smashing protection library
libquadmath0	Math routines for the __float128 type
fixincludes	Fix non-ANSI header files

C, C++ and Fortran 95:

libgomp1-dev, libgomp1	GCC OpenMP (GOMP) support library
libitm1-dev, libitm1	GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libatomic
- libdecnumber
- libgomp
- libitm
- libssp
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- Various config files in gcc/config/ used in runtime libraries.
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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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ldexpq.c:
* Conversion to long double by Ulrich Drepper,
* Cygnus Support, drepper@cygnus.com.

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D:
gdc-11 GNU D Compiler
libphobos-11-dev D standard runtime library

The D source package is made up of the following components.

The D front-end for GCC:
- d/*

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The DMD Compiler implementation of the D programming language:
- d/dmd/*

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The Zlib data compression library:
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The Phobos standard runtime library:
- d/phobos/*

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1.1639 libgomp 12.3.0-1ubuntu1~22.04

1.1639.1 Available under license :

This is the Debian GNU/Linux prepackaged version of the GNU compiler
collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C,
Objective-C++, and Modula-2 compilers, documentation, and support
libraries. In addition, Debian provides the gm2 compiler, either in
the same source package, or built from a separate same source package.
Packaging is done by the Debian GCC Maintainers
<debian-gcc@lists.debian.org>, with sources obtained from:

```
ftp://gcc.gnu.org/pub/gcc/releases/  (for full releases)
svn://gcc.gnu.org/svn/gcc/           (for prereleases)
ftp://sourceware.org/pub/newlib/     (for newlib)
git://git.savannah.gnu.org/gm2.git   (for Modula-2)
```

The current gcc-12 source package is taken from the git gcc-12-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language,
library, and documentation as follows:

```
Language       Compiler package  Library package    Documentation
-----------------------------------------------------------------------
Ada
           gnat-12          libgnat-12          gnat-12-doc
C             gcc-12                              gcc-12-doc
C++            g++-12          libstdc++6         libstdc++6-12-doc
D             gdc-12
Fortran 95     gfortran-12      libgfortran5       gfortran-12-doc
Go             gccgo-12         libgo0
```

Objective C gobjc-12 libobjc4
Objective C++ gobjc++-12
Modula-2 gm2-12 libgm2

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent
C++		libstdc++6-12-dbg	libstdc++6-12-pic	
D	libphobos-12-dev			

Additional packages include:

All languages:
libgcc1, libgcc2, libgcc4 GCC intrinsics (platform-dependent)
gcc-12-base
  Base files common to all compilers
gcc-12-soft-float Software floating point (ARM only)
gcc-12-source The sources with patches

Ada:
libgnat-util12-dev, libgnat-util12 GNAT version library

C:
cpp-12, cpp-12-doc GNU C Preprocessor
libssp0-dev, libssp0 GCC stack smashing protection library
libquadmath0 Math routines for the __float128 type
fixincludes Fix non-ANSI header files

C, C++ and Fortran 95:
libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library
libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional
 packages with names
beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libatomic
- libdecnumber
- libgomp
- libitm
- libssp
- libstdc++-v3
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D:

gdc-12	GNU D Compiler
libphobos-12-dev	D standard runtime library

The D source package is made up of the following components.

The D front-end for GCC:
- d/*

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The DMD Compiler implementation of the D programming language:
- d/dmd/*

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The Zlib data compression library:
- d/phobos/etc/c/zlib/*

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The Phobos standard runtime library:
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02110-1301, USA. */

```
<!-- Creator     : groff version 1.20.1 -->
<!-- CreationDate: Fri Jan 14 19:57:50 2011 -->
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta name="generator" content="groff -Thtml, see www.gnu.org">
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<meta name="Content-Style" content="text/css">
<link rel="stylesheet" type="text/css" href="texi2tr.css" />
<title>GNU Modula-2</title>
</head>

<body>
 <!-- site wide top running header menu -->

 <ul id="overview">
   <li class="home">
     HOME_HREF
   </li>
   <li class="release">
     11_HREF
   </li>

   <li>
     <a href="news.html" title="News">News</a>
   </li>
   <li>
     <a href="development.html" title="Development">Development</a>
   </li>
   <li>
     <a href="community.html" title="Community">Community</a>
   </li>
```

```
</ul>

<div id="header">
  <h1>
    <span style="display:inline-block; vertical-align:middle">
<img
src="200px-Heckert_GNU_white.png" alt="Heckert_GNU_white.png">
    </span>
    <span style="display:inline-block; vertical-align:middle; font-size: 50px">
GNU Modula-2
    </span>
  </h1>

  <!-- homepage tab menu -->

  <div id="tabmenu">
    <ul id="tab">
<li><a href="about.html"><span>About</span></a></li>
<li><a href="download.html"><span>Download</span></a></li>
<li><a href="release.html"><span>Latest Release</span></a></li>
<li class="selected"><a href="license.html"><span>License</span></a></li>
<li><a href="platforms.html"><span>Platforms</span></a></li>
<li><a href="users.html"><span>Users</span></a></li>
    </ul>
  </div>
</div>

<div id="page">
 <div class="plain">
   <h2>The home of the GNU Modula-2 compiler</h2>
   <p>The compiler is held under the GNU Public Licence v3.</p>
   <p>The ISO and PIM libraries are under the GPL v3.1 with GCC runtime extensions.  Copies of the
     licences can be found on the
     <a href="http://www.gnu.org/licenses">GNU</a>
 web site.</p>
 </div>
</div>
</body>
</html>
```

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```
ftp://gcc.gnu.org/pub/gcc/releases/  (for full releases)
svn://gcc.gnu.org/svn/gcc/           (for prereleases)
ftp://sourceware.org/pub/newlib/     (for newlib)
git://git.savannah.gnu.org/gm2.git   (for Modula-2)
```

The current gcc-11 source package is taken from the SVN gcc-11-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

Language	Compiler package	Library package	Documentation
Ada	gnat-11	libgnat-11	gnat-11-doc
BRIG	gccbrig-11	libhsail-rt0	
C	gcc-11		gcc-11-doc
C++	g++-11	libstdc++6	libstdc++6-11-doc
D	gdc-11		
Fortran 95	gfortran-11	libgfortran5	gfortran-11-doc
Go	gccgo-11	libgo0	
Objective C	gobjc-11	libobjc4	
Objective C++	gobjc++-11		
Modula-2	gm2-11	libgm2	

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent
C++			libstdc++6-11-dbg	libstdc++6-11-pic
D		libphobos-11-dev		

Additional packages include:

All languages:
libgcc1,
libgcc2, libgcc4 GCC intrinsics (platform-dependent)
gcc-11-base Base files common to all compilers
gcc-11-soft-float Software floating point (ARM only)
gcc-11-source The sources with patches

Ada:
libgnat-util11-dev, libgnat-util11 GNAT version library

C:
cpp-11, cpp-11-doc GNU C Preprocessor
libssp0-dev, libssp0 GCC stack smashing protection library
libquadmath0 Math routines for the __float128 type
fixincludes Fix non-ANSI header files

C, C++ and Fortran 95:
libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library
libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can
also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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D:
gdc-11 GNU D Compiler
libphobos-11-dev D standard runtime library

The D source package is made up of the following components.

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The Phobos standard runtime library:
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@enumerate 0
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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02110-1301, USA. */

```
<!-- Creator     : groff version 1.20.1 -->
<!-- CreationDate: Fri Jan 14 19:57:50 2011 -->
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta name="generator" content="groff -Thtml, see www.gnu.org">
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<meta name="Content-Style" content="text/css">
<link rel="stylesheet" type="text/css" href="texi2tr.css" />
<title>GNU Modula-2</title>
</head>

<body>
 <!-- site wide top running header menu -->

 <ul id="overview">
   <li class="home">
     HOME_HREF
   </li>
   <li class="release">
     11_HREF
   </li>

   <li>
     <a href="news.html" title="News">News</a>
   </li>
   <li>
     <a href="development.html" title="Development">Development</a>
   </li>
   <li>
     <a href="community.html" title="Community">Community</a>
   </li>
 </ul>

 <div id="header">
   <h1>
```

```
    <span style="display:inline-block; vertical-align:middle">
 <img
 src="200px-Heckert_GNU_white.png" alt="Heckert_GNU_white.png">
    </span>
    <span style="display:inline-block; vertical-align:middle; font-size: 50px">
 GNU Modula-2
    </span>
  </h1>

  <!-- homepage tab menu -->

  <div id="tabmenu">
    <ul id="tab">
 <li><a href="about.html"><span>About</span></a></li>
 <li><a href="download.html"><span>Download</span></a></li>
 <li><a href="release.html"><span>Latest Release</span></a></li>
 <li class="selected"><a href="license.html"><span>License</span></a></li>
 <li><a href="platforms.html"><span>Platforms</span></a></li>
 <li><a href="users.html"><span>Users</span></a></li>
    </ul>
  </div>
 </div>

<div id="page">
 <div class="plain">
  <h2>The home of the GNU Modula-2 compiler</h2>
  <p>The compiler is held under the GNU Public Licence v3.</p>
  <p>The ISO and PIM libraries are under the GPL v3.1 with GCC runtime extensions.  Copies of the
    licences can be found on the
    <a href="http://www.gnu.org/licenses">GNU</a>
 web site.</p>
 </div>
</div>
</body>
</html>
```

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This is the Debian GNU/Linux prepackaged version of the GNU compiler
collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C,
Objective-C++, and Modula-2 compilers, documentation, and support
libraries. In addition, Debian provides the gm2 compiler, either in
the same source package, or built from a separate same source package.
Packaging is done by the Debian GCC Maintainers
<debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
svn://gcc.gnu.org/svn/gcc/ (for prereleases)
ftp://sourceware.org/pub/newlib/ (for newlib)
git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-11 source package is taken from the SVN gcc-11-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language,
library, and documentation as follows:

Language	Compiler package	Library package	Documentation
Ada	gnat-11	libgnat-11	gnat-11-doc
BRIG	gccbrig-11	libhsail-rt0	
C	gcc-11		gcc-11-doc
C++	g++-11	libstdc++6	libstdc++6-11-doc
D	gdc-11		
Fortran 95	gfortran-11	libgfortran5	gfortran-11-doc
Go	gccgo-11	libgo0	

Objective C gobjc-11 libobjc4
Objective C++ gobjc++-11
Modula-2 gm2-11 libgm2

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent
C++		libstdc++6-11-dbg	libstdc++6-11-pic	
D	libphobos-11-dev			

Additional packages include:

All languages:
libgcc1,
 libgcc2, libgcc4 GCC intrinsics (platform-dependent)
gcc-11-base Base files common to all compilers
gcc-11-soft-float Software floating point (ARM only)
gcc-11-source The sources with patches

Ada:
libgnat-util11-dev, libgnat-util11 GNAT version library

C:
cpp-11, cpp-11-doc GNU C Preprocessor
libssp0-dev, libssp0 GCC stack smashing protection library
libquadmath0 Math routines for the __float128 type
fixincludes Fix non-ANSI header files

C, C++ and Fortran 95:
libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library
libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can
 also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libitm
- libssp
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D:

gdc-11	GNU D Compiler
libphobos-11-dev	D standard runtime library

The D source package is made up of the following components.

The D front-end for GCC:
- d/*

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- d/dmd/*

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The Zlib data compression library:
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The Phobos standard runtime library:
- d/phobos/*

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  iconv (Charset Conversion Library) v2.0

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1.1643 libasan6 11.4.0-1ubuntu1~22.04

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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02110-1301, USA. */
<!-- Creator : groff version 1.20.1 -->
<!-- CreationDate: Fri Jan 14 19:57:50 2011 -->

```
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta name="generator" content="groff -Thtml, see www.gnu.org">
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<meta name="Content-Style" content="text/css">
<link rel="stylesheet" type="text/css" href="texi2tr.css" />
<title>GNU Modula-2</title>
</head>

<body>
 <!-- site wide top running header menu -->

 <ul id="overview">
   <li class="home">
     HOME_HREF
   </li>
   <li class="release">
     11_HREF
   </li>

   <li>
     <a href="news.html" title="News">News</a>
   </li>
   <li>
     <a href="development.html" title="Development">Development</a>
   </li>
   <li>
     <a href="community.html" title="Community">Community</a>
   </li>
 </ul>

 <div id="header">
   <h1>
     <span style="display:inline-block; vertical-align:middle">
 <img
 src="200px-Heckert_GNU_white.png" alt="Heckert_GNU_white.png">
     </span>
     <span style="display:inline-block; vertical-align:middle; font-size: 50px">
 GNU Modula-2
     </span>
   </h1>

   <!-- homepage tab menu -->

   <div id="tabmenu">
     <ul id="tab">
```

```
 <li><a href="about.html"><span>About</span></a></li>
 <li><a href="download.html"><span>Download</span></a></li>
 <li><a href="release.html"><span>Latest Release</span></a></li>
 <li class="selected"><a href="license.html"><span>License</span></a></li>
 <li><a href="platforms.html"><span>Platforms</span></a></li>
 <li><a href="users.html"><span>Users</span></a></li>
    </ul>
  </div>
 </div>

<div id="page">
 <div class="plain">
   <h2>The home of the GNU Modula-2 compiler</h2>
   <p>The compiler is held under the GNU Public Licence v3.</p>
   <p>The ISO and PIM libraries are under the GPL v3.1 with GCC runtime extensions.  Copies of the
     licences can be found on the
     <a href="http://www.gnu.org/licenses">GNU</a>
 web site.</p>
 </div>
</div>
</body>
</html>
```

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its purpose remains meaningful.

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This is the Debian GNU/Linux prepackaged version of the GNU compiler
collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C,
Objective-C++, and Modula-2 compilers, documentation, and support
libraries. In addition, Debian provides the gm2 compiler, either in
the same source package, or built from a separate same source package.
Packaging is done by the Debian GCC Maintainers
<debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
svn://gcc.gnu.org/svn/gcc/ (for prereleases)
ftp://sourceware.org/pub/newlib/ (for newlib)
git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-11 source package is taken from the SVN gcc-11-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language,
library, and documentation as follows:

Language	Compiler package	Library package	Documentation
Ada	gnat-11	libgnat-11	gnat-11-doc
BRIG	gccbrig-11	libhsail-rt0	
C	gcc-11		gcc-11-doc
C++	g++-11	libstdc++6	libstdc++6-11-doc
D	gdc-11		
Fortran 95	gfortran-11	libgfortran5	gfortran-11-doc
Go	gccgo-11	libgo0	
Objective C	gobjc-11	libobjc4	
Objective C++	gobjc++-11		
Modula-2	gm2-11	libgm2	

For some language run-time libraries, Debian provides source files,
development files, debugging symbols and libraries containing position-
independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent
C++			libstdc++6-11-dbg	libstdc++6-11-pic
D	libphobos-11-dev			

Additional packages include:

All languages:
libgcc1,
libgcc2, libgcc4 GCC intrinsics (platform-dependent)
gcc-11-base Base files common to all compilers
gcc-11-soft-float Software floating point (ARM only)
gcc-11-source The sources with patches

Ada:
libgnat-util11-dev, libgnat-util11 GNAT version library

C:
cpp-11, cpp-11-doc GNU C Preprocessor
libssp0-dev, libssp0 GCC stack smashing protection library
libquadmath0 Math routines for the __float128 type
fixincludes Fix non-ANSI header files

C, C++ and Fortran 95:
libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library
libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can
also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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D:

gdc-11	GNU D Compiler
libphobos-11-dev	D standard runtime library

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The Phobos standard runtime library:
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Version 3.1, 31 March 2009

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DRuntime: Runtime Library for the D Programming Language
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1.1644 golang-genproto 0.0.0-20230717213848-3f92550aa753

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1.1645 x-text 0.12.0

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1.1647 x-oauth2 0.11.0

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1.1648 gopkg-in-yaml-v2 2.4.0

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1.1650 structured-merge-diff 4.3.0

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1.1653 go-sysconf 0.3.12

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 LicenseIdentifier string `json:"licenseId"`

 // 10.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 // License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 10.3: License Name: single line of text or "NOASSERTION"
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 // on SPDX License List
 LicenseName string `json:"name,omitempty"`

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 // Cardinality: conditional (optional, one or many) if license
 // is not on SPDX License List
 LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

 //
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 // Cardinality: optional, one
 LicenseComment string `json:"comment,omitempty"`
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// OtherLicense is an Other License Information section of an
// SPDX Document for version 2.2 of the spec.
type OtherLicense struct {
 // 10.1: License Identifier: "LicenseRef-[idstring]"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 10.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //              License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 10.3: License Name: single line of text or "NOASSERTION"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseName string `json:"name,omitempty"`

 // 10.4: License Cross Reference
 // Cardinality: conditional (optional, one or many) if license
 //              is not on SPDX License List
 LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

 //
 10.5: License Comment
 // Cardinality: optional, one
 LicenseComment string `json:"comment,omitempty"`
}
```

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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localtime.go, localtime_test.go:

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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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1.1658 go.starlark.net 0.0.0-20230525235612-a134d8f9ddca

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1.1659 fs-minipass 3.0.3

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1.1660 netlink 1.2.1-beta.2

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1.1661 minio-go 7.0.61

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package minio

import (
 "bytes"
 "context"
 "encoding/xml"
 "fmt"
 "net/http"
 "net/url"

 "github.com/minio/minio-go/v7/pkg/s3utils"
)

// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html
type objectLegalHold struct {
 XMLNS   string          `xml:"xmlns,attr,omitempty"`
 XMLName
 xml.Name        `xml:"LegalHold"`
 Status  LegalHoldStatus `xml:"Status,omitempty"`
}

// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
type PutObjectLegalHoldOptions struct {
 VersionID string
 Status    *LegalHoldStatus
}

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
type GetObjectLegalHoldOptions struct {
 VersionID string
}

// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string

const (
 // LegalHoldEnabled indicates legal hold is enabled
 LegalHoldEnabled LegalHoldStatus = "ON"
```

```
 // LegalHoldDisabled indicates legal hold is disabled
 LegalHoldDisabled LegalHoldStatus = "OFF"
)

func (r LegalHoldStatus) String() string {
 return string(r)
}

// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {
 return r == LegalHoldEnabled || r == LegalHoldDisabled
}

func newObjectLegalHold(status *LegalHoldStatus)
 (*objectLegalHold, error) {
 if status == nil {
  return nil, fmt.Errorf("Status not set")
 }
 if !status.IsValid() {
  return nil, fmt.Errorf("invalid legal hold status `%v`", status)
 }
 legalHold := &objectLegalHold{
  Status: *status,
 }
 return legalHold, nil
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c *Client) PutObjectLegalHold(ctx context.Context, bucketName, objectName string, opts
PutObjectLegalHoldOptions) error {
 // Input validation.
 if err := s3utils.CheckValidBucketName(bucketName); err != nil {
  return err
 }

 if err := s3utils.CheckValidObjectName(objectName); err != nil {
  return err
 }

 // Get resources properly escaped and lined up before
 // using them in http request.
 urlValues := make(url.Values)
 urlValues.Set("legal-hold", "")

 if opts.VersionID != "" {
  urlValues.Set("versionId", opts.VersionID)
 }
```

```
 lh, err := newObjectLegalHold(opts.Status)
 if err != nil {
  return err
 }

 lhData, err := xml.Marshal(lh)
 if
 err != nil {
  return err
 }

 reqMetadata := requestMetadata{
  bucketName:       bucketName,
  objectName:       objectName,
  queryValues:      urlValues,
  contentBody:      bytes.NewReader(lhData),
  contentLength:    int64(len(lhData)),
  contentMD5Base64: sumMD5Base64(lhData),
  contentSHA256Hex: sum256Hex(lhData),
 }

 // Execute PUT Object Legal Hold.
 resp, err := c.executeMethod(ctx, http.MethodPut, reqMetadata)
 defer closeResponse(resp)
 if err != nil {
  return err
 }
 if resp != nil {
  if resp.StatusCode != http.StatusOK && resp.StatusCode != http.StatusNoContent {
   return httpRespToErrorResponse(resp, bucketName, objectName)
  }
 }
 return nil
}

// GetObjectLegalHold gets legal-hold status of given object.
func (c *Client) GetObjectLegalHold(ctx context.Context, bucketName, objectName string, opts
GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {
 // Input validation.
 if err := s3utils.CheckValidBucketName(bucketName); err != nil {
  return
 nil, err
 }

 if err := s3utils.CheckValidObjectName(objectName); err != nil {
  return nil, err
 }
 urlValues := make(url.Values)
```

```
 urlValues.Set("legal-hold", "")

 if opts.VersionID != "" {
  urlValues.Set("versionId", opts.VersionID)
 }

 // Execute GET on bucket to list objects.
 resp, err := c.executeMethod(ctx, http.MethodGet, requestMetadata{
  bucketName:       bucketName,
  objectName:       objectName,
  queryValues:      urlValues,
  contentSHA256Hex: emptySHA256Hex,
 })
 defer closeResponse(resp)
 if err != nil {
  return nil, err
 }
 if resp != nil {
  if resp.StatusCode != http.StatusOK {
   return nil, httpRespToErrorResponse(resp, bucketName, objectName)
  }
 }
 lh := &objectLegalHold{}
 if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
  return nil, err
 }

 return &lh.Status, nil
}
```

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1.1662 simple-update-notifier 2.0.0

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1.1666 github.com/metalmatze/signal 0.0.0-20210307161603-1c9aa721a97a

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1.1667 github.com/grafana/regexp 0.0.0-20221123153739-15dc172cd2db

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1.1668 github.com/cilium/ebpf 0.11.0

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1.1670 github.com/pierrec/lz4/v4 4.1.18

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1.1671 okio 3.5.0

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* /opt/cola/permits/1779742482_1693226770.6289008/0/okio-3-5-0-sources-1-jar/commonMain/okio/FileHandle.kt

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* /opt/cola/permits/1779742482_1693226770.6289008/0/okio-3-5-0-sources-1-jar/commonMain/okio/Source.kt
* /opt/cola/permits/1779742482_1693226770.6289008/0/okio-3-5-0-sources-1-jar/nonJvmMain/okio/Sink.kt
* /opt/cola/permits/1779742482_1693226770.6289008/0/okio-3-5-0-sources-1-jar/commonMain/okio/Timeout.kt
* /opt/cola/permits/1779742482_1693226770.6289008/0/okio-3-5-0-sources-1-jar/commonMain/okio/internal/Buffer.kt
* /opt/cola/permits/1779742482_1693226770.6289008/0/okio-3-5-0-sources-1-jar/commonMain/okio/BufferedSink.kt

* /opt/cola/permits/1779742482_1693226770.6289008/0/okio-3-5-0-sources-1-jar/commonMain/okio/RealBufferedSource.kt
* /opt/cola/permits/1779742482_1693226770.6289008/0/okio-3-5-0-sources-1-jar/nonJvmMain/okio/Timeout.kt
* /opt/cola/permits/1779742482_1693226770.6289008/0/okio-3-5-0-sources-1-jar/nonJvmMain/okio/BufferedSink.kt
* /opt/cola/permits/1779742482_1693226770.6289008/0/okio-3-5-0-sources-1-jar/commonMain/okio/BufferedSource.kt
* /opt/cola/permits/1779742482_1693226770.6289008/0/okio-3-5-0-sources-1-jar/nonJvmMain/okio/Buffer.kt

1.1672 json-c 0.15-3~ubuntu1.22.04.2

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1.1673 fsnotify 1.6.0

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1.1674 spdx-tools-golang 0.5.3

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```
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package reader

import (
 "errors"
 "fmt"
 "strings"

 gordfParser "github.com/spdx/gordf/rdfloader/parser"
 "github.com/spdx/gordf/rdfwriter"
)

// AnyLicense is a baseClass for all the licenses
// All the types of licenses is a sub-type of AnyLicense,
// either directly or indirectly.
// This function acts as a mux for all the licenses. Based on the input, it
// decides which type of license it is and passes control to that type of
// license parser to parse the given input.
func (parser *rdfParser2_2) getAnyLicenseFromNode(node *gordfParser.Node) (AnyLicenseInfo, error) {
```

```
currState := parser.cache[node.ID]
if currState == nil {
 // there is no entry about the state of current package node.
 // this is the first time we're seeing this node.
 parser.cache[node.ID] = &nodeState{
  object: nil, // not storing the object as we won't retrieve it later.
  Color:  WHITE,
 }
} else if currState.Color == GREY {
 // we have
already started parsing this license node.
 // We have a cyclic dependency!
 return nil, errors.New("Couldn't parse license: found a cyclic dependency on " + node.ID)
}

// setting color of the state to grey to indicate that we've started to
// parse this node once.
parser.cache[node.ID].Color = GREY

// setting state color to black when we're done parsing this node.
defer func() { parser.cache[node.ID].Color = BLACK }()

associatedTriples := rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
if len(associatedTriples) == 0 {
 // just a license uri string was found.
 return parser.getSpecialLicenseFromNode(node)
}

// we have some attributes associated with the license node.
nodeType, err := getNodeTypeFromTriples(associatedTriples, node)
if err != nil {
 return nil, fmt.Errorf("error parsing license triple: %v", err)
}
switch nodeType {
case SPDX_DISJUNCTIVE_LICENSE_SET:
 return parser.getDisjunctiveLicenseSetFromNode(node)
case SPDX_CONJUNCTIVE_LICENSE_SET:
 return
parser.getConjunctiveLicenseSetFromNode(node)
case SPDX_EXTRACTED_LICENSING_INFO:
 return parser.getExtractedLicensingInfoFromNode(node)
case SPDX_LISTED_LICENSE, SPDX_LICENSE:
 return parser.getLicenseFromNode(node)
case SPDX_WITH_EXCEPTION_OPERATOR:
 return parser.getWithExceptionOperatorFromNode(node)
case SPDX_OR_LATER_OPERATOR:
 return parser.getOrLaterOperatorFromNode(node)
```

```
 case SPDX_SIMPLE_LICENSING_INFO:
  return parser.getSimpleLicensingInfoFromNode(node)
 }
 return nil, fmt.Errorf("Unknown subTag (%s) found while parsing AnyLicense", nodeType)
}

func (parser *rdfParser2_2) getLicenseExceptionFromNode(node *gordfParser.Node) (exception LicenseException,
err error) {
 associatedTriples := rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
 for _, triple := range associatedTriples {
  value := triple.Object.ID
  switch triple.Predicate.ID {
  case RDF_TYPE:
   continue
  case SPDX_LICENSE_EXCEPTION_ID:
   exception.licenseExceptionId
 = value
  case SPDX_LICENSE_EXCEPTION_TEXT:
   exception.licenseExceptionText = value
  case RDFS_SEE_ALSO:
   if !isUriValid(value) {
    return exception, fmt.Errorf("invalid uri (%s) for seeAlso attribute of LicenseException", value)
   }
   exception.seeAlso = value
  case SPDX_NAME:
   exception.name = value
  case SPDX_EXAMPLE:
   exception.example = value
  case RDFS_COMMENT:
   exception.comment = value
  default:
   return exception, fmt.Errorf("invalid predicate(%s) for LicenseException", triple.Predicate)
  }
 }
 return exception, nil
}

func (parser *rdfParser2_2) getSimpleLicensingInfoFromNode(node *gordfParser.Node) (SimpleLicensingInfo,
error) {
 simpleLicensingTriples := rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
 return parser.getSimpleLicensingInfoFromTriples(simpleLicensingTriples)
}

func (parser *rdfParser2_2) getWithExceptionOperatorFromNode(node *gordfParser.Node) (operator
WithExceptionOperator, err error) {
 associatedTriples
 := rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
 var memberFound bool
```

```
 for _, triple := range associatedTriples {
  switch triple.Predicate.ID {
  case RDF_TYPE:
   continue
  case SPDX_MEMBER:
   if memberFound {
    return operator,
     fmt.Errorf("more than one member found in the WithExceptionOperator (expected only 1)")
   }
   memberFound = true
   member, err := parser.getSimpleLicensingInfoFromNode(triple.Object)
   if err != nil {
    return operator, fmt.Errorf("error parsing member of a WithExceptionOperator: %v", err)
   }
   operator.member = member
  case SPDX_LICENSE_EXCEPTION:
   operator.licenseException, err = parser.getLicenseExceptionFromNode(triple.Object)
   if err != nil {
    return operator, fmt.Errorf("error parsing licenseException of WithExceptionOperator: %v", err)
   }
  default:
   return operator, fmt.Errorf("unknown predicate (%s) for a WithExceptionOperator", triple.Predicate.ID)
  }
 }
 return operator, nil
}

func
 (parser *rdfParser2_2) getOrLaterOperatorFromNode(node *gordfParser.Node) (operator OrLaterOperator, err
error) {
 associatedTriples := rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
 n := len(associatedTriples)
 if n != 2 {
  return operator, fmt.Errorf("orLaterOperator must be associated with exactly one tag. found %v triples", n-1)
 }
 for _, triple := range associatedTriples {
  switch triple.Predicate.ID {
  case RDF_TYPE:
   continue
  case SPDX_MEMBER:
   operator.member, err = parser.getSimpleLicensingInfoFromNode(triple.Object)
   if err != nil {
    return operator, fmt.Errorf("error parsing simpleLicensingInfo of OrLaterOperator: %v", err)
   }
  default:
   return operator, fmt.Errorf("unknown predicate %s", triple.Predicate.ID)
  }
 }
```

```
 return operator, nil
}

// SpecialLicense is a type of license which is not defined in any of the
// spdx documents, it is a type of license defined for the sake of brevity.
// It can be [NONE|NOASSERTION|LicenseRef-<string>]
func
 (parser *rdfParser2_2) getSpecialLicenseFromNode(node *gordfParser.Node) (lic SpecialLicense, err error) {
 uri := strings.TrimSpace(node.ID)
 switch uri {
 case SPDX_NONE_CAPS, SPDX_NONE_SMALL:
  return SpecialLicense{
   value: NONE,
  }, nil
 case SPDX_NOASSERTION_SMALL, SPDX_NOASSERTION_CAPS:
  return SpecialLicense{
   value: NOASSERTION,
  }, nil
 }

 // the license is neither NONE nor NOASSERTION
 // checking if the license is among the standardLicenses
 licenseAbbreviation := getLastPartOfURI(uri)
 for _, stdLicense := range AllStandardLicenseIDS() {
  if licenseAbbreviation == stdLicense {
   return SpecialLicense{
    value: SpecialLicenseValue(stdLicense),
   }, nil
  }
 }
 return lic, fmt.Errorf("found a custom license uri (%s) without any associated fields", uri)
}

func (parser *rdfParser2_2) getDisjunctiveLicenseSetFromNode(node *gordfParser.Node) (DisjunctiveLicenseSet,
error) {
 licenseSet := DisjunctiveLicenseSet{
  members: []AnyLicenseInfo{},
 }
 for
 _, triple := range parser.nodeToTriples(node) {
  switch triple.Predicate.ID {
  case RDF_TYPE:
   continue
  case SPDX_MEMBER:
   member, err := parser.getAnyLicenseFromNode(triple.Object)
   if err != nil {
    return licenseSet, fmt.Errorf("error parsing disjunctive license set: %v", err)
   }
```

```
  licenseSet.members = append(licenseSet.members, member)
 }
}
return licenseSet, nil
}

func (parser *rdfParser2_2) getConjunctiveLicenseSetFromNode(node *gordfParser.Node) (ConjunctiveLicenseSet,
error) {
 licenseSet := ConjunctiveLicenseSet{
  members: []AnyLicenseInfo{},
 }
 for _, triple := range parser.nodeToTriples(node) {
  switch triple.Predicate.ID {
  case RDF_TYPE:
   continue
  case SPDX_MEMBER:
   member, err := parser.getAnyLicenseFromNode(triple.Object)
   if err != nil {
    return licenseSet, fmt.Errorf("error parsing conjunctive license set: %v", err)
   }
   licenseSet.members = append(licenseSet.members, member)
  default:
   return licenseSet, fmt.Errorf("unknown
 subTag for ConjunctiveLicenseSet: %s", triple.Predicate.ID)
  }
 }
 return licenseSet, nil
}

func (parser *rdfParser2_2) getSimpleLicensingInfoFromTriples(triples []*gordfParser.Triple) (lic
SimpleLicensingInfo, err error) {
 for _, triple := range triples {
  switch triple.Predicate.ID {
  case RDFS_COMMENT:
   lic.comment = triple.Object.ID
  case SPDX_LICENSE_ID:
   lic.licenseID = triple.Object.ID
  case SPDX_NAME:
   lic.name = triple.Object.ID
  case RDFS_SEE_ALSO:
   if !isUriValid(triple.Object.ID) {
    return lic, fmt.Errorf("%s is not a valid uri for seeAlso attribute of a License", triple.Object.ID)
   }
   lic.seeAlso = append(lic.seeAlso, triple.Object.ID)
  case SPDX_EXAMPLE:
   lic.example = triple.Object.ID
  case RDF_TYPE:
   continue
```

```
 default:
  return lic, fmt.Errorf("unknown predicate(%s) for simple licensing info", triple.Predicate)
 }
}
return lic, nil
}

func (parser *rdfParser2_2) getLicenseFromNode(node *gordfParser.Node) (lic License, err error)
{
associatedTriples := rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
var restTriples []*gordfParser.Triple
for _, triple := range associatedTriples {
 value := triple.Object.ID
 switch triple.Predicate.ID {
 case SPDX_IS_OSI_APPROVED:
  lic.isOsiApproved, err = boolFromString(value)
  if err != nil {
   return lic, fmt.Errorf("error parsing isOsiApproved attribute of a License: %v", err)
  }
 case SPDX_LICENSE_TEXT:
  lic.licenseText = value
 case SPDX_STANDARD_LICENSE_HEADER:
  lic.standardLicenseHeader = value
 case SPDX_STANDARD_LICENSE_TEMPLATE:
  lic.standardLicenseTemplate = value
 case SPDX_STANDARD_LICENSE_HEADER_TEMPLATE:
  lic.standardLicenseHeaderTemplate = value
 case SPDX_IS_DEPRECATED_LICENSE_ID:
  lic.isDeprecatedLicenseID, err = boolFromString(value)
  if err != nil {
   return lic, fmt.Errorf("error parsing isDeprecatedLicenseId attribute of a License: %v", err)
  }
 case SPDX_IS_FSF_LIBRE:
  lic.isFsfLibre, err =
boolFromString(value)
  if err != nil {
   return lic, fmt.Errorf("error parsing isFsfLibre attribute of a License: %v", err)
  }
 default:
  restTriples = append(restTriples, triple)
 }
}
lic.SimpleLicensingInfo, err = parser.getSimpleLicensingInfoFromTriples(restTriples)
if err != nil {
 return lic, fmt.Errorf("error setting simple licensing information of a License: %s", err)
}
return lic, nil
}
```

```
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package writer

import (
 "fmt"
 "io"

 spdx "github.com/spdx/tools-golang/spdx/v2/v2_1"
)

func renderOtherLicense(ol *spdx.OtherLicense, w io.Writer) error {
 if ol.LicenseIdentifier != "" {
  fmt.Fprintf(w, "LicenseID: %s\n", ol.LicenseIdentifier)
 }
 if ol.ExtractedText != "" {
  fmt.Fprintf(w, "ExtractedText: %s\n", textify(ol.ExtractedText))
 }
 if ol.LicenseName != "" {
  fmt.Fprintf(w, "LicenseName: %s\n", ol.LicenseName)
 }
 for _, s := range ol.LicenseCrossReferences {
  fmt.Fprintf(w, "LicenseCrossReference: %s\n", s)
 }
 if ol.LicenseComment != "" {
  fmt.Fprintf(w, "LicenseComment: %s\n", textify(ol.LicenseComment))
 }

 fmt.Fprintf(w, "\n")

 return nil
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package writer

import (
 "bytes"
 "testing"

 spdx "github.com/spdx/tools-golang/spdx/v2/v2_2"
)

// ===== Other License section Saver tests =====
func TestSaverOtherLicenseSavesText(t *testing.T) {
 ol := &spdx.OtherLicense{
  LicenseIdentifier: "LicenseRef-1",
  ExtractedText: `License 1 text
```

```
blah blah blah
blah blah blah blah`,
  LicenseName: "License 1",
  LicenseCrossReferences: []string{
   "http://example.com/License1/",
   "http://example.com/License1AnotherURL/",
  },
  LicenseComment: "this is a license comment",
 }

 // what we want to get, as a buffer of bytes
 want := bytes.NewBufferString(`LicenseID: LicenseRef-1
ExtractedText: <text>License 1 text
blah blah blah
blah blah blah blah</text>
LicenseName: License 1
LicenseCrossReference: http://example.com/License1/
LicenseCrossReference: http://example.com/License1AnotherURL/
LicenseComment: this is a license comment

`)

 // render as buffer of bytes
 var got bytes.Buffer
 err
 := renderOtherLicense(ol, &got)
 if err != nil {
  t.Errorf("Expected nil error, got %v", err)
 }

 // check that they match
 c := bytes.Compare(want.Bytes(), got.Bytes())
 if c != 0 {
  t.Errorf("Expected %v, got %v", want.String(), got.String())
 }
}

func TestSaverOtherLicenseOmitsOptionalFieldsIfEmpty(t *testing.T) {
 ol := &spdx.OtherLicense{
  LicenseIdentifier: "LicenseRef-1",
  ExtractedText: `License 1 text
blah blah blah
blah blah blah blah`,
  LicenseName: "License 1",
 }

 // what we want to get, as a buffer of bytes
 want := bytes.NewBufferString(`LicenseID: LicenseRef-1
```

```
ExtractedText: <text>License 1 text
blah blah blah
blah blah blah blah</text>
LicenseName: License 1

`)

 // render as buffer of bytes
 var got bytes.Buffer
 err := renderOtherLicense(ol, &got)
 if err != nil {
  t.Errorf("Expected nil error, got %v", err)
 }

 // check that they match
 c := bytes.Compare(want.Bytes(), got.Bytes())
 if c != 0 {
  t.Errorf("Expected %v, got %v", want.String(),
 got.String())
 }
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later
package reader

import (
 "testing"

 "github.com/spdx/tools-golang/spdx/v2/v2_2"
)

// ===== Parser other license section state change tests =====
func TestParserOLStartsNewOtherLicenseAfterParsingLicenseIDTag(t *testing.T) {
 // create the first other license
 olid1 := "LicenseRef-Lic11"
 olname1 := "License 11"

 parser := tvParser{
  doc:  &v2_2.Document{Packages: []*v2_2.Package{}},
  st:   psOtherLicense,
  pkg:  &v2_2.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_2.File{}},
  file: &v2_2.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
  otherLic: &v2_2.OtherLicense{
   LicenseIdentifier: olid1,
   LicenseName:       olname1,
  },
 }
 olic1 := parser.otherLic
 parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
```

```
parser.pkg.Files = append(parser.pkg.Files, parser.file)
parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

// the Document's OtherLicenses should
have this one only
if parser.doc.OtherLicenses[0] != olic1 {
 t.Errorf("Expected other license %v in OtherLicenses[0], got %v", olic1, parser.doc.OtherLicenses[0])
}
if parser.doc.OtherLicenses[0].LicenseName != olname1 {
 t.Errorf("expected other license name %s in OtherLicenses[0], got %s", olname1,
parser.doc.OtherLicenses[0].LicenseName)
}

// now add a new other license
olid2 := "LicenseRef-22"
olname2 := "License 22"
err := parser.parsePair("LicenseID", olid2)
if err != nil {
 t.Errorf("got error when calling parsePair: %v", err)
}
// state should be correct
if parser.st != psOtherLicense {
 t.Errorf("expected state to be %v, got %v", psOtherLicense, parser.st)
}
// and an other license should be created
if parser.otherLic == nil {
 t.Fatalf("parser didn't create new other license")
}
// also parse the new license's name
err = parser.parsePair("LicenseName", olname2)
if err != nil {
 t.Errorf("got error when calling parsePair: %v", err)
}
// state should
still be correct
if parser.st != psOtherLicense {
 t.Errorf("expected state to be %v, got %v", psOtherLicense, parser.st)
}
// and the other license name should be as expected
if parser.otherLic.LicenseName != olname2 {
 t.Errorf("expected other license name %s, got %s", olname2, parser.otherLic.LicenseName)
}
// and the Document's Other Licenses should be of size 2 and have these two
if len(parser.doc.OtherLicenses) != 2 {
 t.Fatalf("Expected OtherLicenses to have len 2, got %d", len(parser.doc.OtherLicenses))
}
if parser.doc.OtherLicenses[0] != olic1 {
 t.Errorf("Expected other license %v in OtherLicenses[0], got %v", olic1, parser.doc.OtherLicenses[0])
```

```
 }
 if parser.doc.OtherLicenses[0].LicenseIdentifier != olid1 {
  t.Errorf("expected other license ID %s in OtherLicenses[0], got %s", olid1,
parser.doc.OtherLicenses[0].LicenseIdentifier)
 }
 if parser.doc.OtherLicenses[0].LicenseName != olname1 {
  t.Errorf("expected other license name %s in OtherLicenses[0], got %s",
 olname1, parser.doc.OtherLicenses[0].LicenseName)
 }
 if parser.doc.OtherLicenses[1] != parser.otherLic {
  t.Errorf("Expected other license %v in OtherLicenses[1], got %v", parser.otherLic, parser.doc.OtherLicenses[1])
 }
 if parser.doc.OtherLicenses[1].LicenseIdentifier != olid2 {
  t.Errorf("expected other license ID %s in OtherLicenses[1], got %s", olid2,
parser.doc.OtherLicenses[1].LicenseIdentifier)
 }
 if parser.doc.OtherLicenses[1].LicenseName != olname2 {
  t.Errorf("expected other license name %s in OtherLicenses[1], got %s", olname2,
parser.doc.OtherLicenses[1].LicenseName)
 }
}

func TestParserOLMovesToReviewAfterParsingReviewerTag(t *testing.T) {
 parser := tvParser{
  doc:  &v2_2.Document{Packages: []*v2_2.Package{}},
  st:   psOtherLicense,
  pkg:  &v2_2.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_2.File{}},
  file: &v2_2.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
 }
 parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
 parser.pkg.Files
 = append(parser.pkg.Files, parser.file)
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

 err := parser.parsePair("Reviewer", "Person: John Doe")
 if err != nil {
  t.Errorf("got error when calling parsePair: %v", err)
 }
 if parser.st != psReview {
  t.Errorf("expected state to be %v, got %v", psReview, parser.st)
 }
}

func TestParserOtherLicenseStaysAfterParsingRelationshipTags(t *testing.T) {
 parser := tvParser{
  doc:  &v2_2.Document{Packages: []*v2_2.Package{}},
  st:   psOtherLicense,
  pkg:  &v2_2.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_2.File{}},
```

```
 file: &v2_2.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
 otherLic: &v2_2.OtherLicense{
  LicenseIdentifier: "LicenseRef-whatever",
  LicenseName:       "the whatever license",
 },
}
parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
parser.pkg.Files = append(parser.pkg.Files, parser.file)
parser.doc.OtherLicenses = append(parser.doc.OtherLicenses,
parser.otherLic)

err := parser.parsePair("Relationship", "SPDXRef-blah CONTAINS SPDXRef-blah-else")
if err != nil {
 t.Errorf("got error when calling parsePair: %v", err)
}
// state should remain unchanged
if parser.st != psOtherLicense {
 t.Errorf("expected state to be %v, got %v", psOtherLicense, parser.st)
}
// and the relationship should be in the Document's Relationships
if len(parser.doc.Relationships) != 1 {
 t.Fatalf("expected doc.Relationships to have len 1, got %d", len(parser.doc.Relationships))
}
deID := parser.doc.Relationships[0].RefA
if deID.DocumentRefID != "" || deID.ElementRefID != "blah" {
 t.Errorf("expected RefA to be %s, got %s", "blah", parser.doc.Relationships[0].RefA)
}

err = parser.parsePair("RelationshipComment", "blah")
if err != nil {
 t.Errorf("got error when calling parsePair: %v", err)
}
// state should still remain unchanged
if parser.st != psOtherLicense {
 t.Errorf("expected state to be %v, got %v", psOtherLicense,
parser.st)
}
}

func TestParserOtherLicenseStaysAfterParsingAnnotationTags(t *testing.T) {
parser := tvParser{
 doc:  &v2_2.Document{Packages: []*v2_2.Package{}},
 st:   psOtherLicense,
 pkg:  &v2_2.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_2.File{}},
 file: &v2_2.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
 otherLic: &v2_2.OtherLicense{
  LicenseIdentifier: "LicenseRef-whatever",
  LicenseName:       "the whatever license",
```

```
 },
}
parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
parser.pkg.Files = append(parser.pkg.Files, parser.file)
parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

err := parser.parsePair("Annotator", "Person: John Doe ()")
if err != nil {
 t.Errorf("got error when calling parsePair: %v", err)
}
if parser.st != psOtherLicense {
 t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense)
}

err = parser.parsePair("AnnotationDate", "2018-09-15T00:36:00Z")
if
err != nil {
 t.Errorf("got error when calling parsePair: %v", err)
}
if parser.st != psOtherLicense {
 t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense)
}

err = parser.parsePair("AnnotationType", "REVIEW")
if err != nil {
 t.Errorf("got error when calling parsePair: %v", err)
}
if parser.st != psOtherLicense {
 t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense)
}

err = parser.parsePair("SPDXREF", "SPDXRef-45")
if err != nil {
 t.Errorf("got error when calling parsePair: %v", err)
}
if parser.st != psOtherLicense {
 t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense)
}

err = parser.parsePair("AnnotationComment", "i guess i had something to say about this particular file")
if err != nil {
 t.Errorf("got error when calling parsePair: %v", err)
}
if parser.st != psOtherLicense {
 t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense)
}

// and the annotation
```

```
 should be in the Document's Annotations
 if len(parser.doc.Annotations) != 1 {
  t.Fatalf("expected doc.Annotations to have len 1, got %d", len(parser.doc.Annotations))
 }
 if parser.doc.Annotations[0].Annotator.Annotator != "John Doe ()" {
  t.Errorf("expected Annotator to be %s, got %s", "John Doe ()", parser.doc.Annotations[0].Annotator)
 }
}

func TestParserOLFailsAfterParsingOtherSectionTags(t *testing.T) {
 parser := tvParser{
  doc:  &v2_2.Document{Packages: []*v2_2.Package{}},
  st:   psOtherLicense,
  pkg:  &v2_2.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_2.File{}},
  file: &v2_2.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
  otherLic: &v2_2.OtherLicense{
   LicenseIdentifier: "LicenseRef-Lic11",
   LicenseName:       "License 11",
  },
 }
 parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
 parser.pkg.Files = append(parser.pkg.Files, parser.file)
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

 //
 can't go back to old sections
 err := parser.parsePair("SPDXVersion", "SPDX-2.2")
 if err == nil {
  t.Errorf("expected error when calling parsePair, got nil")
 }
 err = parser.parsePair("PackageName", "whatever")
 if err == nil {
  t.Errorf("expected error when calling parsePair, got nil")
 }
 err = parser.parsePair("FileName", "whatever")
 if err == nil {
  t.Errorf("expected error when calling parsePair, got nil")
 }
}

// ===== Other License data section tests =====
func TestParserCanParseOtherLicenseTags(t *testing.T) {
 parser := tvParser{
  doc:  &v2_2.Document{Packages: []*v2_2.Package{}},
  st:   psOtherLicense,
  pkg:  &v2_2.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_2.File{}},
  file: &v2_2.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
 }
```

```
parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
parser.pkg.Files = append(parser.pkg.Files, parser.file)
parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

//
License Identifier
err := parser.parsePairFromOtherLicense("LicenseID", "LicenseRef-Lic11")
if err != nil {
 t.Errorf("expected nil error, got %v", err)
}
if parser.otherLic.LicenseIdentifier != "LicenseRef-Lic11" {
 t.Errorf("got %v for LicenseID", parser.otherLic.LicenseIdentifier)
}

// Extracted Text
err = parser.parsePairFromOtherLicense("ExtractedText", "You are permitted to do anything with the software,
hooray!")
if err != nil {
 t.Errorf("expected nil error, got %v", err)
}
if parser.otherLic.ExtractedText != "You are permitted to do anything with the software, hooray!" {
 t.Errorf("got %v for ExtractedText", parser.otherLic.ExtractedText)
}

// License Name
err = parser.parsePairFromOtherLicense("LicenseName", "License 11")
if err != nil {
 t.Errorf("expected nil error, got %v", err)
}
if parser.otherLic.LicenseName != "License 11" {
 t.Errorf("got %v for LicenseName", parser.otherLic.LicenseName)
}

// License Cross Reference
crossRefs := []string{
 "https://example.com/1",
 "https://example.com/2",
 "https://example.com/3",
}
for
_, cr := range crossRefs {
 err = parser.parsePairFromOtherLicense("LicenseCrossReference", cr)
 if err != nil {
  t.Errorf("expected nil error, got %v", err)
 }
}
for _, refWant := range crossRefs {
 flagFound := false
```

```
 for _, refCheck := range parser.otherLic.LicenseCrossReferences {
  if refWant == refCheck {
   flagFound = true
  }
 }
 if flagFound == false {
  t.Errorf("didn't find %s in LicenseCrossReferences", refWant)
 }
}
if len(crossRefs) != len(parser.otherLic.LicenseCrossReferences) {
 t.Errorf("expected %d types in LicenseCrossReferences, got %d", len(crossRefs),
  len(parser.otherLic.LicenseCrossReferences))
}

// License Comment
err = parser.parsePairFromOtherLicense("LicenseComment", "this is a comment")
if err != nil {
 t.Errorf("expected nil error, got %v", err)
}
if parser.otherLic.LicenseComment != "this is a comment" {
 t.Errorf("got %v for LicenseComment",
parser.otherLic.LicenseComment)
}
}

func TestParserOLUnknownTagFails(t *testing.T) {
 parser := tvParser{
  doc:  &v2_2.Document{Packages: []*v2_2.Package{}},
  st:   psOtherLicense,
  pkg:  &v2_2.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_2.File{}},
  file: &v2_2.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
 }
 parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
 parser.pkg.Files = append(parser.pkg.Files, parser.file)
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

 err := parser.parsePairFromOtherLicense("blah", "something")
 if err == nil {
  t.Errorf("expected error from parsing unknown tag")
 }
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package reader

import (
 "fmt"
```

```
 spdx "github.com/spdx/tools-golang/spdx/v2/v2_3"
)

func (parser *tvParser) parsePairFromOtherLicense(tag string, value string) error {
 switch tag {
 // tag for creating new other license section
 case "LicenseID":
  parser.otherLic = &spdx.OtherLicense{}
  parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)
  parser.otherLic.LicenseIdentifier = value
 case "ExtractedText":
  parser.otherLic.ExtractedText = value
 case "LicenseName":
  parser.otherLic.LicenseName = value
 case "LicenseCrossReference":
  parser.otherLic.LicenseCrossReferences = append(parser.otherLic.LicenseCrossReferences, value)
 case "LicenseComment":
  parser.otherLic.LicenseComment = value
 // for relationship tags, pass along but don't change state
 case "Relationship":
  parser.rln = &spdx.Relationship{}
  parser.doc.Relationships = append(parser.doc.Relationships, parser.rln)
  return parser.parsePairForRelationship(tag,
 value)
 case "RelationshipComment":
  return parser.parsePairForRelationship(tag, value)
 // for annotation tags, pass along but don't change state
 case "Annotator":
  parser.ann = &spdx.Annotation{}
  parser.doc.Annotations = append(parser.doc.Annotations, parser.ann)
  return parser.parsePairForAnnotation(tag, value)
 case "AnnotationDate":
  return parser.parsePairForAnnotation(tag, value)
 case "AnnotationType":
  return parser.parsePairForAnnotation(tag, value)
 case "SPDXREF":
  return parser.parsePairForAnnotation(tag, value)
 case "AnnotationComment":
  return parser.parsePairForAnnotation(tag, value)
 // tag for going on to review section (DEPRECATED)
 case "Reviewer":
  parser.st = psReview
  return parser.parsePairFromReview(tag, value)
 default:
  return fmt.Errorf("received unknown tag %v in OtherLicense section", tag)
 }

 return nil
```

```
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package reader

import (
 "fmt"

 "github.com/spdx/tools-golang/spdx/v2/v2_1"
)

func (parser *tvParser) parsePairFromOtherLicense(tag string, value string) error {
 switch tag {
 // tag for creating new other license section
 case "LicenseID":
  parser.otherLic = &v2_1.OtherLicense{}
  parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)
  parser.otherLic.LicenseIdentifier = value
 case "ExtractedText":
  parser.otherLic.ExtractedText = value
 case "LicenseName":
  parser.otherLic.LicenseName = value
 case "LicenseCrossReference":
  parser.otherLic.LicenseCrossReferences = append(parser.otherLic.LicenseCrossReferences, value)
 case "LicenseComment":
  parser.otherLic.LicenseComment = value
 // for relationship tags, pass along but don't change state
 case "Relationship":
  parser.rln = &v2_1.Relationship{}
  parser.doc.Relationships = append(parser.doc.Relationships, parser.rln)
  return parser.parsePairForRelationship(tag,
 value)
 case "RelationshipComment":
  return parser.parsePairForRelationship(tag, value)
 // for annotation tags, pass along but don't change state
 case "Annotator":
  parser.ann = &v2_1.Annotation{}
  parser.doc.Annotations = append(parser.doc.Annotations, parser.ann)
  return parser.parsePairForAnnotation(tag, value)
 case "AnnotationDate":
  return parser.parsePairForAnnotation(tag, value)
 case "AnnotationType":
  return parser.parsePairForAnnotation(tag, value)
 case "SPDXREF":
  return parser.parsePairForAnnotation(tag, value)
 case "AnnotationComment":
  return parser.parsePairForAnnotation(tag, value)
 // tag for going on to review section (DEPRECATED)
```

```
 case "Reviewer":
  parser.st = psReview
  return parser.parsePairFromReview(tag, value)
 default:
  return fmt.Errorf("received unknown tag %v in OtherLicense section", tag)
 }

 return nil
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package reader

import (
 "reflect"
 "sort"
 "testing"

 gordfParser "github.com/spdx/gordf/rdfloader/parser"
)

func Test_rdfParser2_3_getAnyLicenseFromNode(t *testing.T) {
 // since this function is a mux, we just have to make sure that with each
 // type of input, it is able to redirect the request to an appropriate
 // license getter.

 // TestCase 1: input node is just a node string without any associated
 //      triple (either a NONE|NOASSERTION) because for other case,
 //      the license should've been associated with other triples
 parser, _ := parserFromBodyContent(``)
 inputNode := &gordfParser.Node{
  NodeType: gordfParser.IRI,
  ID:       NS_SPDX + "NONE",
 }
 lic, err := parser.getAnyLicenseFromNode(inputNode)
 if err != nil {
  t.Errorf("error parsing a valid license input: %v", err)
 }
 // checking if the return type is a SpecialLicense
 switch lic.(type) {
 case SpecialLicense:
 default:
  t.Errorf("expected
 license to be of type SpecialLicense, found %v", reflect.TypeOf(lic))
 }

 // TestCase 2: DisjunctiveLicenseSet:
 parser, _ = parserFromBodyContent(`
```

```
 <spdx:DisjunctiveLicenseSet>
  <spdx:member rdf:resource="http://spdx.org/licenses/Nokia"/>
  <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
 </spdx:DisjunctiveLicenseSet>
`)
inputNode = parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if err != nil {
 t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return type is a DisjunctiveLicenseSet
switch lic.(type) {
case DisjunctiveLicenseSet:
default:
 t.Errorf("expected license to be of type DisjunctiveLicenseSet, found %v", reflect.TypeOf(lic))
}

// TestCase 3: ConjunctiveLicenseSet:
parser, _ = parserFromBodyContent(`
 <spdx:ConjunctiveLicenseSet>
  <spdx:member rdf:resource="http://spdx.org/licenses/Nokia"/>
  <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
 </spdx:ConjunctiveLicenseSet>
`)
inputNode
= parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if err != nil {
 t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return type is a ConjunctiveLicenseSet
switch lic.(type) {
case ConjunctiveLicenseSet:
default:
 t.Errorf("expected license to be of type ConjunctiveLicenseSet, found %v", reflect.TypeOf(lic))
}

// TestCase 4: ExtractedLicensingInfo
parser, _ = parserFromBodyContent(`
 <spdx:ExtractedLicensingInfo rdf:about="http://spdx.dev/spdx.rdf#LicenseRef-Freeware">
  <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
  <spdx:name>freeware</spdx:name>
  <spdx:extractedText><![CDATA[...]]></spdx:extractedText>
   </spdx:ExtractedLicensingInfo>
`)
inputNode = parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if err != nil {
```

```
 t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return
type is a ExtractedLicensingInfo
switch lic.(type) {
case ExtractedLicensingInfo:
default:
 t.Errorf("expected license to be of type ExtractedLicensingInfo, found %v", reflect.TypeOf(lic))
}

// TestCase 4: ExtractedLicensingInfo
parser, _ = parserFromBodyContent(`
 <spdx:ExtractedLicensingInfo rdf:about="http://spdx.dev/spdx.rdf#LicenseRef-Freeware">
  <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
  <spdx:name>freeware</spdx:name>
  <spdx:extractedText><![CDATA[...]]></spdx:extractedText>
   </spdx:ExtractedLicensingInfo>
`)
inputNode = parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if err != nil {
 t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return type is a ExtractedLicensingInfo
switch lic.(type) {
case ExtractedLicensingInfo:
default:
 t.Errorf("expected license to be of type ExtractedLicensingInfo, found %v", reflect.TypeOf(lic))
}

// TestCase 5: License
parser, _ = parserFromBodyContent(`
 <spdx:License
rdf:about="http://spdx.org/licenses/Apache-2.0">
  <spdx:standardLicenseTemplate>&lt;&gt; Apache License Version 2.0, January 2004
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```

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  <rdfs:seeAlso>http://www.apache.org/licenses/LICENSE-2.0</rdfs:seeAlso>
  <spdx:name>Apache License 2.0</spdx:name>
  <spdx:licenseId>Apache-2.0</spdx:licenseId>
  <spdx:isOsiApproved>true</spdx:isOsiApproved>
  <rdfs:seeAlso>http://www.opensource.org/licenses/Apache-2.0</rdfs:seeAlso>
  <spdx:licenseText>...</spdx:licenseText>
  <spdx:standardLicenseHeader>...</spdx:standardLicenseHeader>
  </spdx:License>
`)
inputNode = parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if
err != nil {
 t.Errorf("error parsing a valid license input: %v", err)

```
}
// checking if the return type is a License
switch lic.(type) {
case License:
default:
 t.Errorf("expected license to be of type License, found %v", reflect.TypeOf(lic))
}

// TestCase 5: WithExceptionOperator
parser, _ = parserFromBodyContent(`
 <spdx:WithExceptionOperator>
  <spdx:licenseException>
   <spdx:LicenseException rdf:nodeID="A1">
    <spdx:example></spdx:example>
    <spdx:licenseExceptionId>Libtool-exception</spdx:licenseExceptionId>
    <rdfs:comment></rdfs:comment>
   </spdx:LicenseException>
  </spdx:licenseException>
  <spdx:member rdf:resource="http://spdx.org/licenses/GPL-2.0-or-later"/>
 </spdx:WithExceptionOperator>
`)
inputNode = parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if err != nil {
 t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return type is a WithExceptionOperator
switch
lic.(type) {
case WithExceptionOperator:
default:
 t.Errorf("expected license to be of type WithExceptionOperator, found %v", reflect.TypeOf(lic))
}

// TestCase 6: OrLaterOperator
parser, _ = parserFromBodyContent(`
 <spdx:OrLaterOperator>
  <spdx:member>
   <spdx:SimpleLicensingInfo>
    <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
    <spdx:name>freeware</spdx:name>
   </spdx:SimpleLicensingInfo>
  </spdx:member>
 </spdx:OrLaterOperator>
`)
inputNode = parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if err != nil {
```

```
 t.Errorf("error parsing a valid license input: %v", err)
 }
 // checking if the return type is a OrLaterOperator
 switch lic.(type) {
 case OrLaterOperator:
 default:
  t.Errorf("expected license to be of type OrLaterOperator, found %v", reflect.TypeOf(lic))
 }

 // TestCase 7: checking if an unknown license raises an error.
 parser, _ = parserFromBodyContent(`
  <spdx:UnknownLicense>
   <spdx:unknownTag
 />
  </spdx:UnknownLicense>
 `)
 node := parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getAnyLicenseFromNode(node)
 t.Log(err)
 if err == nil {
  t.Errorf("should've raised an error for invalid input")
 }

 // TestCase 8: cyclic dependent license must raise an error.
 parser, _ = parserFromBodyContent(`
  <spdx:ConjunctiveLicenseSet rdf:about="#SPDXRef-RecursiveLicense">
   <spdx:member rdf:resource="http://spdx.org/licenses/GPL-2.0-or-later"/>
   <spdx:member>
    <spdx:ConjunctiveLicenseSet rdf:about="#SPDXRef-RecursiveLicense">
     <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
     <spdx:member rdf:resource="http://spdx.org/spdxdocs/spdx-example-444504E0-4F89-41D3-9A0C-
0305E82C3301#SPDXRef-RecursiveLicense"/>
    </spdx:ConjunctiveLicenseSet>
   </spdx:member>
  </spdx:ConjunctiveLicenseSet>
 `)
 node = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getAnyLicenseFromNode(node)
 if err == nil {
  t.Errorf("expected an error due to cyclic
 dependent license. found %v", err)
 }
}

func Test_rdfParser2_3_getConjunctiveLicenseSetFromNode(t *testing.T) {
 var parser *rdfParser2_3
 var err error
 var licenseNode *gordfParser.Node
```

```
var license ConjunctiveLicenseSet

// TestCase 1: invalid license member
parser, _ = parserFromBodyContent(`
 <spdx:ConjunctiveLicenseSet>
  <spdx:member rdf:resource="http://spdx.org/licenses/Unknown"/>
  <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
 </spdx:ConjunctiveLicenseSet>
`)
licenseNode = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getConjunctiveLicenseSetFromNode(licenseNode)
if err == nil {
 t.Errorf("expected an error saying invalid license member, found <nil>")
}

// TestCase 2: invalid predicate in the licenseSet.
parser, _ = parserFromBodyContent(`
 <spdx:ConjunctiveLicenseSet>
  <spdx:member rdf:resource="http://spdx.org/licenses/CC0-1.0"/>
  <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
  <spdx:unknownTag />
 </spdx:ConjunctiveLicenseSet>
`)
licenseNode
= parser.gordfParserObj.Triples[0].Subject
_, err = parser.getConjunctiveLicenseSetFromNode(licenseNode)
if err == nil {
 t.Errorf("expected an error saying invalid predicate found")
}

// TestCase 3: valid example.
parser, _ = parserFromBodyContent(`
 <spdx:ConjunctiveLicenseSet>
  <spdx:member rdf:resource="http://spdx.org/licenses/Nokia"/>
  <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
 </spdx:ConjunctiveLicenseSet>
`)
licenseNode = parser.gordfParserObj.Triples[0].Subject
license, err = parser.getConjunctiveLicenseSetFromNode(licenseNode)
if err != nil {
 t.Errorf("unexpected error parsing licenseSet: %v", err)
}
nMembers := len(license.members)
if nMembers != 2 {
 t.Errorf("expected licenseSet to have 2 members, found %d", nMembers)
}
licenseMembers := mapLicensesToStrings(license.members)
expectedLicenseMembers := []string{"LGPL-2.0", "Nokia"}
```

```
 sort.Strings(licenseMembers)
 if !reflect.DeepEqual(licenseMembers,
 expectedLicenseMembers) {
  t.Errorf("expected %v, found %v", expectedLicenseMembers, licenseMembers)
 }
}

func Test_rdfParser2_3_getDisjunctiveLicenseSetFromNode(t *testing.T) {
 var parser *rdfParser2_3
 var err error
 var licenseNode *gordfParser.Node
 var license DisjunctiveLicenseSet

 // TestCase 1: invalid license member
 parser, _ = parserFromBodyContent(`
  <spdx:DisjunctiveLicenseSet>
   <spdx:member rdf:resource="http://spdx.org/licenses/Unknown"/>
   <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
  </spdx:DisjunctiveLicenseSet>
 `)
 licenseNode = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getDisjunctiveLicenseSetFromNode(licenseNode)
 if err == nil {
  t.Errorf("expected an error saying invalid license member, found <nil>")
 }

 // TestCase 2: invalid predicate in the licenseSet.
 parser, _ = parserFromBodyContent(`
  <spdx:DisjunctiveLicenseSet>
   <spdx:member rdf:resource="http://spdx.org/licenses/Unknown"/>
   <spdx:member
 rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
   <spdx:unknownTag />
  </spdx:DisjunctiveLicenseSet>
 `)
 licenseNode = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getDisjunctiveLicenseSetFromNode(licenseNode)
 if err == nil {
  t.Errorf("expected an error saying invalid predicate found")
 }

 // TestCase 3: valid example.
 parser, _ = parserFromBodyContent(`
  <spdx:DisjunctiveLicenseSet>
   <spdx:member rdf:resource="http://spdx.org/licenses/Nokia"/>
   <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
  </spdx:DisjunctiveLicenseSet>
 `)
```

```
 licenseNode = parser.gordfParserObj.Triples[0].Subject
 license, err = parser.getDisjunctiveLicenseSetFromNode(licenseNode)
 if err != nil {
  t.Errorf("unexpected error parsing licenseSet: %v", err)
 }
 nMembers := len(license.members)
 if nMembers != 2 {
  t.Errorf("expected licenseSet to have 2 members, found %d", nMembers)
 }
 licenseMembers := mapLicensesToStrings(license.members)
 expectedLicenseMembers := []string{"LGPL-2.0",
 "Nokia"}
 sort.Strings(licenseMembers)
 if !reflect.DeepEqual(licenseMembers, expectedLicenseMembers) {
  t.Errorf("expected %v, found %v", expectedLicenseMembers, licenseMembers)
 }
}

func Test_rdfParser2_3_getLicenseExceptionFromNode(t *testing.T) {
 var licenseException LicenseException
 var err error
 var node *gordfParser.Node
 var parser *rdfParser2_3

 // TestCase 1: invalid value for rdf:seeAlso
 parser, _ = parserFromBodyContent(`
  <spdx:LicenseException>
   <rdfs:seeAlso>see-also</rdfs:seeAlso>
   <spdx:example></spdx:example>
   <spdx:licenseExceptionId>Libtool-exception</spdx:licenseExceptionId>
   <rdfs:comment></rdfs:comment>
  </spdx:LicenseException>
 `)
 node = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getLicenseExceptionFromNode(node)
 if err == nil {
  t.Errorf("should've raised an error due to invalid uri for rdfs:seeAlso")
 }

 // TestCase 2: invalid predicate for licenseException
 // TestCase 1: invalid value for rdf:seeAlso
 parser,
 _ = parserFromBodyContent(`
  <spdx:LicenseException>
   <spdx:example></spdx:example>
   <spdx:licenseExceptionId>Libtool-exception</spdx:licenseExceptionId>
   <rdfs:unknown></rdfs:unknown>
  </spdx:LicenseException>
```

```
`)
node = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getLicenseExceptionFromNode(node)
if err == nil {
 t.Errorf("should've raised an error due to invalid predicate")
}

// TestCase 3: everything valid
// TestCase 1: invalid value for rdf:seeAlso
parser, _ = parserFromBodyContent(`
 <spdx:LicenseException>
  <rdfs:seeAlso rdf:resource="http://www.opensource.org/licenses/GPL-3.0"/>
  <spdx:example>no example</spdx:example>
  <spdx:licenseExceptionId>Libtool-exception</spdx:licenseExceptionId>
  <rdfs:comment>no comments</rdfs:comment>
  <spdx:licenseExceptionText>text</spdx:licenseExceptionText>
  <spdx:name>name</spdx:name>
 </spdx:LicenseException>
`)
node = parser.gordfParserObj.Triples[0].Subject
licenseException, err = parser.getLicenseExceptionFromNode(node)
if
err != nil {
 t.Fatalf("unexpected error while parsing a valid licenseException")
}
expectedCrossReference := "http://www.opensource.org/licenses/GPL-3.0"
if licenseException.seeAlso != expectedCrossReference {
 t.Errorf("expected: %s, found: %s", expectedCrossReference, licenseException.seeAlso)
}
expectedExample := "no example"
if licenseException.example != expectedExample {
 t.Errorf("expected: %s, got: %s", expectedExample, licenseException.example)
}
if licenseException.licenseExceptionId != "Libtool-exception" {
 t.Errorf("expected: %s, got: %s", "Libtool-exception", licenseException.licenseExceptionId)
}
if licenseException.comment != "no comments" {
 t.Errorf("expected: %s, got: %s", "no comments", licenseException.comment)
}
if licenseException.licenseExceptionText != "text" {
 t.Errorf("expected: '%s', got: '%s'", "text", licenseException.licenseExceptionText)
}
if licenseException.name != "name" {
 t.Errorf("expected:
'%s', got: '%s'", "name", licenseException.name)
 }
}
```

```
func Test_rdfParser2_3_getLicenseFromNode(t *testing.T) {
 var parser *rdfParser2_3
 var node *gordfParser.Node
 var license License
 var err error

 // TestCase 1: isOsiApproved is not a valid boolean
 parser, _ = parserFromBodyContent(`
  <spdx:License>
   <spdx:isOsiApproved>no</spdx:isOsiApproved>
  </spdx:License>
 `)
 node = parser.gordfParserObj.Triples[0].Subject
 license, err = parser.getLicenseFromNode(node)
 if err == nil {
  t.Errorf("expected function to raise an error stating isOsiApproved should be a valid boolean type")
 }

 // TestCase 2: rdf:seeAlso not a valid uri must raise an error
 parser, _ = parserFromBodyContent(`
  <spdx:License>
   <rdfs:seeAlso>uri</rdfs:seeAlso>
  </spdx:License>
 `)
 node = parser.gordfParserObj.Triples[0].Subject
 license, err = parser.getLicenseFromNode(node)
 if err == nil {
  t.Errorf("expected function to raise an error stating invalid uri for rdfs:seeAlso")
 }

 // TestCase 3:
 isDeprecatedLicenseId is not a valid boolean
 parser, _ = parserFromBodyContent(`
  <spdx:License>
   <spdx:isDeprecatedLicenseId>yes</spdx:isDeprecatedLicenseId>
  </spdx:License>
 `)
 node = parser.gordfParserObj.Triples[0].Subject
 license, err = parser.getLicenseFromNode(node)
 if err == nil {
  t.Errorf("expected function to raise an error stating isDeprecatedLicenseId should be a valid boolean type")
 }

 // TestCase 4: isFsfLibre is not a valid boolean
 parser, _ = parserFromBodyContent(`
  <spdx:License>
   <spdx:isFsfLibre>no</spdx:isFsfLibre>
  </spdx:License>
```

```
`)
node = parser.gordfParserObj.Triples[0].Subject
license, err = parser.getLicenseFromNode(node)
if err == nil {
 t.Errorf("expected function to raise an error stating isFsfLibre should be a valid boolean type")
}

// TestCase 5: invalid triple for License:
parser, _ = parserFromBodyContent(`
 <spdx:License>
  <spdx:unknown />
 </spdx:License>
`)
node = parser.gordfParserObj.Triples[0].Subject
license,
err = parser.getLicenseFromNode(node)
if err == nil {
 t.Errorf("invalid predicate should've raised an error, got <nil>")
}

// TestCase 5: everything valid:
parser, _ = parserFromBodyContent(`
 <spdx:License rdf:about="http://spdx.org/licenses/GPL-3.0-or-later">
  <rdfs:seeAlso>http://www.opensource.org/licenses/GPL-3.0</rdfs:seeAlso>
  <spdx:isOsiApproved>true</spdx:isOsiApproved>
  <spdx:licenseText>GNU GENERAL PUBLIC LICENSE Version 3, 29 June 2007</spdx:licenseText>
  <spdx:name>GNU General Public License v3.0 or later</spdx:name>
  <spdx:standardLicenseHeaderTemplate>...</spdx:standardLicenseHeaderTemplate>
  <spdx:licenseId>GPL-3.0-or-later</spdx:licenseId>
  <rdfs:comment>This license was released: 29 June 2007</rdfs:comment>
  <spdx:isFsfLibre>true</spdx:isFsfLibre>
  <spdx:standardLicenseHeader>...</spdx:standardLicenseHeader>
  <spdx:standardLicenseTemplate>....</spdx:standardLicenseTemplate>
 </spdx:License>
`)
node = parser.gordfParserObj.Triples[0].Subject
license,
err = parser.getLicenseFromNode(node)
if err != nil {
 t.Errorf("error parsing a valid input: %v", err)
}
expectedSeeAlso := "http://www.opensource.org/licenses/GPL-3.0"
if len(license.seeAlso) != 1 {
 t.Fatalf("expected seeAlso to have 1 element, got %d", len(license.seeAlso))
}
if license.seeAlso[len(license.seeAlso)-1] != expectedSeeAlso {
 t.Errorf("expected %s, got %s", expectedSeeAlso, license.seeAlso)
}
```

```
 if license.isOsiApproved != true {
  t.Errorf("expected %t, got %t", true, license.isOsiApproved)
 }
 expectedLicenseText := "GNU GENERAL PUBLIC LICENSE Version 3, 29 June 2007"
 if license.licenseText != expectedLicenseText {
  t.Errorf("expected %s, got %s", expectedSeeAlso, license.licenseText)
 }
 expectedName := "GNU General Public License v3.0 or later"
 if license.name != expectedName {
  t.Errorf("expected %s, got %s", expectedName, license.name)
 }
 expectedstdLicHeader := "..."
 if license.standardLicenseHeader != expectedstdLicHeader {
  t.Errorf("expected
 %s, got %s", expectedstdLicHeader, license.standardLicenseHeader)
 }
 expectedLicenseId := "GPL-3.0-or-later"
 if expectedLicenseId != license.licenseID {
  t.Errorf("expected %s, got %s", expectedLicenseId, license.licenseID)
 }
 expectedLicenseComment := "This license was released: 29 June 2007"
 if expectedLicenseComment != license.comment {
  t.Errorf("expected %s, got %s", expectedLicenseComment, license.comment)
 }
 expectedstdLicTemplate := "..."
 if license.standardLicenseHeader != expectedstdLicTemplate {
  t.Errorf("expected %s, got %s", expectedstdLicTemplate, license.standardLicenseTemplate)
 }
 expectedstdLicHeaderTemplate := "..."
 if license.standardLicenseHeaderTemplate != expectedstdLicHeaderTemplate {
  t.Errorf("expected %s, got %s", expectedstdLicHeaderTemplate, license.standardLicenseHeaderTemplate)
 }
 if license.isFsfLibre != true {
  t.Errorf("expected %t, got %t", true, license.isFsfLibre)
 }
}

func Test_rdfParser2_3_getOrLaterOperatorFromNode(t *testing.T)
 {
 var parser *rdfParser2_3
 var node *gordfParser.Node
 var err error

 // TestCase 1: more than one member in the OrLaterOperator tag must raise an error
 parser, _ = parserFromBodyContent(`
  <spdx:OrLaterOperator>
   <spdx:member>
    <spdx:SimpleLicensingInfo>
```

```
    <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
    <spdx:name>freeware</spdx:name>
   </spdx:SimpleLicensingInfo>
  </spdx:member>
  <spdx:member rdf:resource="http://spdx.org/licenses/Nokia"/>
 </spdx:OrLaterOperator>
`)
node = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getOrLaterOperatorFromNode(node)
if err == nil {
 t.Error("expected an error due to more than one members, got <nil>")
}

// TestCase 2: Invalid predicate must raise an error
parser, _ = parserFromBodyContent(`
 <spdx:OrLaterOperator>
  <spdx:members>
   <spdx:SimpleLicensingInfo>
    <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
    <spdx:name>freeware</spdx:name>
   </spdx:SimpleLicensingInfo>
  </spdx:members>
 </spdx:OrLaterOperator>
`)
node
= parser.gordfParserObj.Triples[0].Subject
_, err = parser.getOrLaterOperatorFromNode(node)
if err == nil {
 t.Error("expected an error due to invalid predicate, got <nil>")
}

// TestCase 5: invalid member
parser, _ = parserFromBodyContent(`
 <spdx:OrLaterOperator>
  <spdx:member>
   <spdx:SimpleLicensingInfo>
    <spdx:invalidTag />
    <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
    <spdx:name>freeware</spdx:name>
   </spdx:SimpleLicensingInfo>
  </spdx:member>
 </spdx:OrLaterOperator>
`)
node = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getOrLaterOperatorFromNode(node)
if err == nil {
 t.Errorf("expected an error parsing invalid license member, got %v", err)
}
```

```
 // TestCase 4: valid input
 parser, _ = parserFromBodyContent(`
  <spdx:OrLaterOperator>
   <spdx:member>
    <spdx:SimpleLicensingInfo>
     <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
     <spdx:name>freeware</spdx:name>
    </spdx:SimpleLicensingInfo>
   </spdx:member>
  </spdx:OrLaterOperator>
 `)
 node
 = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getOrLaterOperatorFromNode(node)
 if err != nil {
  t.Errorf("unexpected error parsing a valid input: %v", err)
 }
}

func Test_rdfParser2_3_getSimpleLicensingInfoFromNode(t *testing.T) {
 // nothing to test. The just provides an interface to call function that
 // uses triples to render a SimpleLicensingInfo.
 parser, _ := parserFromBodyContent(`
  <spdx:SimpleLicensingInfo>
   <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
   <spdx:name>freeware</spdx:name>
  </spdx:SimpleLicensingInfo>
 `)
 node := parser.gordfParserObj.Triples[0].Subject
 _, err := parser.getSimpleLicensingInfoFromNode(node)
 if err != nil {
  t.Errorf("error parsing a valid input: %v", err)
 }
}

func Test_rdfParser2_3_getSimpleLicensingInfoFromTriples(t *testing.T) {
 var parser *rdfParser2_3
 var err error
 var license SimpleLicensingInfo

 // TestCase 1: invalid
 rdf:seeAlso attribute
 parser, _ = parserFromBodyContent(`
  <spdx:SimpleLicensingInfo>
   <rdfs:seeAlso>an invalid uri</rdfs:seeAlso>
  </spdx:SimpleLicensingInfo>
   `)
```

```
_, err = parser.getSimpleLicensingInfoFromTriples(parser.gordfParserObj.Triples)
if err == nil {
 t.Error("expected an error reporting invalid uri for rdf:seeAlso, got <nil>")
}

// TestCase 2: invalid predicate must raise an error
parser, _ = parserFromBodyContent(`
 <spdx:SimpleLicensingInfo>
  <rdfs:invalidPredicate />
 </spdx:SimpleLicensingInfo>
  `)
_, err = parser.getSimpleLicensingInfoFromTriples(parser.gordfParserObj.Triples)
if err == nil {
 t.Error("expected an error reporting invalid predicate, got <nil>")
}

// TestCase 3: valid example
parser, _ = parserFromBodyContent(`
 <spdx:SimpleLicensingInfo>
  <rdfs:comment>comment</rdfs:comment>
  <spdx:licenseId>lid</spdx:licenseId>
  <spdx:name>name</spdx:name>
  <rdfs:seeAlso>https://opensource.org/licenses/MPL-1.0</rdfs:seeAlso>
  <spdx:example>example</spdx:example>
 </spdx:SimpleLicensingInfo>
   `)
license, err = parser.getSimpleLicensingInfoFromTriples(parser.gordfParserObj.Triples)
if err != nil {
 t.Fatalf("unexpected error: %v", err)
}
expectedComment := "comment"
expectedLicenseId := "lid"
expectedName := "name"
expectedSeeAlso := "https://opensource.org/licenses/MPL-1.0"
expectedExample := "example"
if expectedComment != license.comment {
 t.Errorf("expected %v, got %v", expectedComment, license.comment)
}
if expectedLicenseId != license.licenseID {
 t.Errorf("expected %v, got %v", expectedLicenseId, license.licenseID)
}
if expectedName != license.name {
 t.Errorf("expected %v, got %v", expectedName, license.name)
}
if len(license.seeAlso) != 1 {
 t.Fatalf("expected seeAlso to have 1 element, found %d", len(license.seeAlso))
}
if license.seeAlso[0] != expectedSeeAlso {
```

```
 t.Errorf("expected %v, got %v", expectedSeeAlso, license.seeAlso[0])
 }
 if license.example != expectedExample
 {
  t.Errorf("expected %v, got %v", expectedExample, license.example)
 }
}

func Test_rdfParser2_3_getSpecialLicenseFromNode(t *testing.T) {
 var parser *rdfParser2_3
 var node *gordfParser.Node
 var license SpecialLicense

 // TestCase 1: NONE
 parser, _ = parserFromBodyContent(``)
 node = &gordfParser.Node{
  NodeType: gordfParser.IRI,
  ID:       NS_SPDX + "NONE",
 }
 license, err := parser.getSpecialLicenseFromNode(node)
 if err != nil {
  t.Errorf("error parsing a valid node: %v", err)
 }
 if license.value != "NONE" {
  t.Errorf("expected %s, got %s", "NONE", license.value)
 }

 // TestCase 2: NOASSERTION
 parser, _ = parserFromBodyContent(``)
 node = &gordfParser.Node{
  NodeType: gordfParser.IRI,
  ID:       NS_SPDX + "NOASSERTION",
 }
 license, err = parser.getSpecialLicenseFromNode(node)
 if err != nil {
  t.Errorf("error parsing a valid node: %v", err)
 }
 if license.value != "NOASSERTION" {
  t.Errorf("expected %s, got %s", "NOASSERTION", license.value)
 }

 // TestCase 4:
 undefined standard license
 parser, _ = parserFromBodyContent(``)
 node = &gordfParser.Node{
  NodeType: gordfParser.IRI,
  ID:       "https://opensource.org/licenses/unknown",
 }
```

```
 _, err = parser.getSpecialLicenseFromNode(node)
 if err == nil {
  t.Errorf("expected an error saying invalid license")
 }

 // TestCase 4: valid standard license
 parser, _ = parserFromBodyContent(``)
 node = &gordfParser.Node{
  NodeType: gordfParser.IRI,
  ID:       "https://opensource.org/licenses/MPL-1.0",
 }
 license, err = parser.getSpecialLicenseFromNode(node)
 if err != nil {
  t.Errorf("error parsing a valid node: %v", err)
 }
 if license.value != "MPL-1.0" {
  t.Errorf("expected %s, got %s", "MPL-1.0", license.value)
 }
}

func Test_rdfParser2_3_getWithExceptionOperatorFromNode(t *testing.T) {
 var parser *rdfParser2_3
 var node *gordfParser.Node
 var err error

 // TestCase 1: more than one member in the OrLaterOperator tag must raise an error
 parser, _ = parserFromBodyContent(`
  <spdx:WithExceptionOperator>
   <spdx:member>
    <spdx:SimpleLicensingInfo>
     <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
     <spdx:name>freeware</spdx:name>
    </spdx:SimpleLicensingInfo>
   </spdx:member>
   <spdx:member
rdf:resource="http://spdx.org/licenses/Nokia"/>
  </spdx:WithExceptionOperator>
 `)
 node = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getWithExceptionOperatorFromNode(node)
 if err == nil {
  t.Error("expected an error due to more than one members, got <nil>")
 }

 // TestCase 2: Invalid predicate must raise an error
 parser, _ = parserFromBodyContent(`
  <spdx:WithExceptionOperator>
   <spdx:members>
```

```
   <spdx:SimpleLicensingInfo>
    <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
    <spdx:name>freeware</spdx:name>
   </spdx:SimpleLicensingInfo>
  </spdx:members>
 </spdx:WithExceptionOperator>
`)
node = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getWithExceptionOperatorFromNode(node)
if err == nil {
 t.Error("expected
an error due to invalid predicate, got <nil>")
}

// TestCase 3: Invalid member
parser, _ = parserFromBodyContent(`
 <spdx:WithExceptionOperator>
  <spdx:member>
   <spdx:License rdf:about="http://spdx.org/licenses/GPL-2.0-or-later">
    <spdx:unknownTag />
   </spdx:License>
  </spdx:member>
 </spdx:WithExceptionOperator>
`)
node = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getWithExceptionOperatorFromNode(node)
if err == nil {
 t.Error("expected an error due to error parsing a member, got <nil>")
}

// TestCase 4: Invalid licenseException
parser, _ = parserFromBodyContent(`
 <spdx:WithExceptionOperator>
  <spdx:member>
   <spdx:License rdf:about="http://spdx.org/licenses/GPL-2.0-or-later"/>
  </spdx:member>
  <spdx:licenseException>
   <spdx:LicenseException>
    <spdx:invalidTag />
    <spdx:example>example</spdx:example>
    <spdx:licenseExceptionId>Libtool-exception</spdx:licenseExceptionId>
    <rdfs:comment>comment</rdfs:comment>
   </spdx:LicenseException>
  </spdx:licenseException>
 </spdx:WithExceptionOperator>
`)
node
```

```
 = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getWithExceptionOperatorFromNode(node)
 if err == nil {
  t.Error("expected an error due to invalid licenseException, got <nil>")
 }

 // TestCase 5: valid input
 parser, _ = parserFromBodyContent(`
  <spdx:WithExceptionOperator>
   <spdx:member>
    <spdx:License rdf:about="http://spdx.org/licenses/GPL-2.0-or-later"/>
   </spdx:member>
   <spdx:licenseException>
    <spdx:LicenseException>
     <spdx:example>example</spdx:example>
     <spdx:licenseExceptionId>Libtool-exception</spdx:licenseExceptionId>
     <rdfs:comment>comment</rdfs:comment>
    </spdx:LicenseException>
   </spdx:licenseException>
  </spdx:WithExceptionOperator>
 `)
 node = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getWithExceptionOperatorFromNode(node)
 if err != nil {
  t.Errorf("error parsing a valid input: %v", err)
 }
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package reader

import (
 "errors"
 "fmt"
 "strings"

 gordfParser "github.com/spdx/gordf/rdfloader/parser"
 "github.com/spdx/gordf/rdfwriter"
)

// AnyLicense is a baseClass for all the licenses
// All the types of licenses is a sub-type of AnyLicense,
// either directly or indirectly.
// This function acts as a mux for all the licenses. Based on the input, it
// decides which type of license it is and passes control to that type of
// license parser to parse the given input.
func (parser *rdfParser2_3) getAnyLicenseFromNode(node *gordfParser.Node) (AnyLicenseInfo, error) {
```

```
currState := parser.cache[node.ID]
if currState == nil {
 // there is no entry about the state of current package node.
 // this is the first time we're seeing this node.
 parser.cache[node.ID] = &nodeState{
  object: nil, // not storing the object as we won't retrieve it later.
  Color:  WHITE,
 }
} else if currState.Color == GREY {
 // we have
already started parsing this license node.
 // We have a cyclic dependency!
 return nil, errors.New("Couldn't parse license: found a cyclic dependency on " + node.ID)
}

// setting color of the state to grey to indicate that we've started to
// parse this node once.
parser.cache[node.ID].Color = GREY

// setting state color to black when we're done parsing this node.
defer func() { parser.cache[node.ID].Color = BLACK }()

associatedTriples := rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
if len(associatedTriples) == 0 {
 // just a license uri string was found.
 return parser.getSpecialLicenseFromNode(node)
}

// we have some attributes associated with the license node.
nodeType, err := getNodeTypeFromTriples(associatedTriples, node)
if err != nil {
 return nil, fmt.Errorf("error parsing license triple: %v", err)
}
switch nodeType {
case SPDX_DISJUNCTIVE_LICENSE_SET:
 return parser.getDisjunctiveLicenseSetFromNode(node)
case SPDX_CONJUNCTIVE_LICENSE_SET:
 return
parser.getConjunctiveLicenseSetFromNode(node)
case SPDX_EXTRACTED_LICENSING_INFO:
 return parser.getExtractedLicensingInfoFromNode(node)
case SPDX_LISTED_LICENSE, SPDX_LICENSE:
 return parser.getLicenseFromNode(node)
case SPDX_WITH_EXCEPTION_OPERATOR:
 return parser.getWithExceptionOperatorFromNode(node)
case SPDX_OR_LATER_OPERATOR:
 return parser.getOrLaterOperatorFromNode(node)
case SPDX_SIMPLE_LICENSING_INFO:
```

```
 return parser.getSimpleLicensingInfoFromNode(node)
 }
 return nil, fmt.Errorf("Unknown subTag (%s) found while parsing AnyLicense", nodeType)
}

func (parser *rdfParser2_3) getLicenseExceptionFromNode(node *gordfParser.Node) (exception LicenseException,
err error) {
 associatedTriples := rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
 for _, triple := range associatedTriples {
  value := triple.Object.ID
  switch triple.Predicate.ID {
  case RDF_TYPE:
   continue
  case SPDX_LICENSE_EXCEPTION_ID:
   exception.licenseExceptionId
 = value
  case SPDX_LICENSE_EXCEPTION_TEXT:
   exception.licenseExceptionText = value
  case RDFS_SEE_ALSO:
   if !isUriValid(value) {
    return exception, fmt.Errorf("invalid uri (%s) for seeAlso attribute of LicenseException", value)
   }
   exception.seeAlso = value
  case SPDX_NAME:
   exception.name = value
  case SPDX_EXAMPLE:
   exception.example = value
  case RDFS_COMMENT:
   exception.comment = value
  default:
   return exception, fmt.Errorf("invalid predicate(%s) for LicenseException", triple.Predicate)
  }
 }
 return exception, nil
}

func (parser *rdfParser2_3) getSimpleLicensingInfoFromNode(node *gordfParser.Node) (SimpleLicensingInfo,
error) {
 simpleLicensingTriples := rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
 return parser.getSimpleLicensingInfoFromTriples(simpleLicensingTriples)
}

func (parser *rdfParser2_3) getWithExceptionOperatorFromNode(node *gordfParser.Node) (operator
WithExceptionOperator, err error) {
 associatedTriples
 := rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
 var memberFound bool
 for _, triple := range associatedTriples {
```

```
 switch triple.Predicate.ID {
 case RDF_TYPE:
  continue
 case SPDX_MEMBER:
  if memberFound {
   return operator,
    fmt.Errorf("more than one member found in the WithExceptionOperator (expected only 1)")
  }
  memberFound = true
  member, err := parser.getSimpleLicensingInfoFromNode(triple.Object)
  if err != nil {
   return operator, fmt.Errorf("error parsing member of a WithExceptionOperator: %v", err)
  }
  operator.member = member
 case SPDX_LICENSE_EXCEPTION:
  operator.licenseException, err = parser.getLicenseExceptionFromNode(triple.Object)
  if err != nil {
   return operator, fmt.Errorf("error parsing licenseException of WithExceptionOperator: %v", err)
  }
 default:
  return operator, fmt.Errorf("unknown predicate (%s) for a WithExceptionOperator", triple.Predicate.ID)
 }
}
return operator, nil
}

func
 (parser *rdfParser2_3) getOrLaterOperatorFromNode(node *gordfParser.Node) (operator OrLaterOperator, err
error) {
associatedTriples := rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
n := len(associatedTriples)
if n != 2 {
 return operator, fmt.Errorf("orLaterOperator must be associated with exactly one tag. found %v triples", n-1)
}
for _, triple := range associatedTriples {
 switch triple.Predicate.ID {
 case RDF_TYPE:
  continue
 case SPDX_MEMBER:
  operator.member, err = parser.getSimpleLicensingInfoFromNode(triple.Object)
  if err != nil {
   return operator, fmt.Errorf("error parsing simpleLicensingInfo of OrLaterOperator: %v", err)
  }
 default:
  return operator, fmt.Errorf("unknown predicate %s", triple.Predicate.ID)
 }
}
return operator, nil
```

```
}

// SpecialLicense is a type of license which is not defined in any of the
// spdx documents, it is a type of license defined for the sake of brevity.
// It can be [NONE|NOASSERTION|LicenseRef-<string>]
func
 (parser *rdfParser2_3) getSpecialLicenseFromNode(node *gordfParser.Node) (lic SpecialLicense, err error) {
 uri := strings.TrimSpace(node.ID)
 switch uri {
 case SPDX_NONE_CAPS, SPDX_NONE_SMALL:
  return SpecialLicense{
   value: NONE,
  }, nil
 case SPDX_NOASSERTION_SMALL, SPDX_NOASSERTION_CAPS:
  return SpecialLicense{
   value: NOASSERTION,
  }, nil
 }

 // the license is neither NONE nor NOASSERTION
 // checking if the license is among the standardLicenses
 licenseAbbreviation := getLastPartOfURI(uri)
 for _, stdLicense := range AllStandardLicenseIDS() {
  if licenseAbbreviation == stdLicense {
   return SpecialLicense{
    value: SpecialLicenseValue(stdLicense),
   }, nil
  }
 }
 return lic, fmt.Errorf("found a custom license uri (%s) without any associated fields", uri)
}

func (parser *rdfParser2_3) getDisjunctiveLicenseSetFromNode(node *gordfParser.Node) (DisjunctiveLicenseSet,
error) {
 licenseSet := DisjunctiveLicenseSet{
  members: []AnyLicenseInfo{},
 }
 for
 _, triple := range parser.nodeToTriples(node) {
  switch triple.Predicate.ID {
  case RDF_TYPE:
   continue
  case SPDX_MEMBER:
   member, err := parser.getAnyLicenseFromNode(triple.Object)
   if err != nil {
    return licenseSet, fmt.Errorf("error parsing disjunctive license set: %v", err)
   }
   licenseSet.members = append(licenseSet.members, member)
```

```
  }
 }
 return licenseSet, nil
}

func (parser *rdfParser2_3) getConjunctiveLicenseSetFromNode(node *gordfParser.Node) (ConjunctiveLicenseSet,
error) {
 licenseSet := ConjunctiveLicenseSet{
  members: []AnyLicenseInfo{},
 }
 for _, triple := range parser.nodeToTriples(node) {
  switch triple.Predicate.ID {
  case RDF_TYPE:
   continue
  case SPDX_MEMBER:
   member, err := parser.getAnyLicenseFromNode(triple.Object)
   if err != nil {
    return licenseSet, fmt.Errorf("error parsing conjunctive license set: %v", err)
   }
   licenseSet.members = append(licenseSet.members, member)
  default:
   return licenseSet, fmt.Errorf("unknown
 subTag for ConjunctiveLicenseSet: %s", triple.Predicate.ID)
  }
 }
 return licenseSet, nil
}

func (parser *rdfParser2_3) getSimpleLicensingInfoFromTriples(triples []*gordfParser.Triple) (lic
SimpleLicensingInfo, err error) {
 for _, triple := range triples {
  switch triple.Predicate.ID {
  case RDFS_COMMENT:
   lic.comment = triple.Object.ID
  case SPDX_LICENSE_ID:
   lic.licenseID = triple.Object.ID
  case SPDX_NAME:
   lic.name = triple.Object.ID
  case RDFS_SEE_ALSO:
   if !isUriValid(triple.Object.ID) {
    return lic, fmt.Errorf("%s is not a valid uri for seeAlso attribute of a License", triple.Object.ID)
   }
   lic.seeAlso = append(lic.seeAlso, triple.Object.ID)
  case SPDX_EXAMPLE:
   lic.example = triple.Object.ID
  case RDF_TYPE:
   continue
  default:
```

```
  return lic, fmt.Errorf("unknown predicate(%s) for simple licensing info", triple.Predicate)
 }
}
return lic, nil
}

func (parser *rdfParser2_3) getLicenseFromNode(node *gordfParser.Node) (lic License, err error)
{
associatedTriples := rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
var restTriples []*gordfParser.Triple
for _, triple := range associatedTriples {
 value := triple.Object.ID
 switch triple.Predicate.ID {
 case SPDX_IS_OSI_APPROVED:
  lic.isOsiApproved, err = boolFromString(value)
  if err != nil {
   return lic, fmt.Errorf("error parsing isOsiApproved attribute of a License: %v", err)
  }
 case SPDX_LICENSE_TEXT:
  lic.licenseText = value
 case SPDX_STANDARD_LICENSE_HEADER:
  lic.standardLicenseHeader = value
 case SPDX_STANDARD_LICENSE_TEMPLATE:
  lic.standardLicenseTemplate = value
 case SPDX_STANDARD_LICENSE_HEADER_TEMPLATE:
  lic.standardLicenseHeaderTemplate = value
 case SPDX_IS_DEPRECATED_LICENSE_ID:
  lic.isDeprecatedLicenseID, err = boolFromString(value)
  if err != nil {
   return lic, fmt.Errorf("error parsing isDeprecatedLicenseId attribute of a License: %v", err)
  }
 case SPDX_IS_FSF_LIBRE:
  lic.isFsfLibre, err =
boolFromString(value)
  if err != nil {
   return lic, fmt.Errorf("error parsing isFsfLibre attribute of a License: %v", err)
  }
 default:
  restTriples = append(restTriples, triple)
 }
}
lic.SimpleLicensingInfo, err = parser.getSimpleLicensingInfoFromTriples(restTriples)
if err != nil {
 return lic, fmt.Errorf("error setting simple licensing information of a License: %s", err)
}
return lic, nil
}
```

```
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package reader

import (
 "reflect"
 "testing"

 gordfParser "github.com/spdx/gordf/rdfloader/parser"
)

func Test_rdfParser2_2_getExtractedLicensingInfoFromNode(t *testing.T) {
 var parser *rdfParser2_2
 var err error
 var node *gordfParser.Node

 // TestCase 1: invalid predicate must raise an error
 parser, _ = parserFromBodyContent(`
  <spdx:ExtractedLicensingInfo rdf:about="http://anupam-VirtualBox/repo/SPDX2_time-1.9.tar.gz_1535120734-spdx.rdf#LicenseRef-Freeware">
   <spdx:licenseID>LicenseRef-Freeware</spdx:licenseID>
   <spdx:name>freeware</spdx:name>
   <spdx:extractedText><![CDATA[Software classified as freeware is licensed at no cost and is either fully functional for an unlimited time; or has only basic functions enabled with a fully functional version available commercially or as shareware.[8] In contrast to free software, the author usually restricts one or more rights of the user, including the rights to use, copy,
 distribute, modify and make derivative works of the software or extract the source code.[1][2][9][10] The software license may impose various additional restrictions on the type of use, e.g. only for personal use, private use, individual use, non-profit use, non-commercial use, academic use, educational use, use in charity or humanitarian organizations, non-military use, use by public authorities or various other combinations of these type of restrictions.[11] For instance, the license may be "free for private, non-commercial use". The software license may also impose various other restrictions, such as restricted use over a network, restricted use on a server, restricted use in a combination with some types of other software or with some hardware devices, prohibited distribution over the Internet other than linking to author's website, restricted distribution without author's consent, restricted number of copies, etc.]]></spdx:extractedText>
  </spdx:ExtractedLicensingInfo>
 `)
 node
 = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getExtractedLicensingInfoFromNode(node)
 if err == nil {
  t.Errorf("expected an error saying invalid predicate, got <nil>")
 }

 // TestCase 2: valid input
 parser, _ = parserFromBodyContent(`
  <spdx:ExtractedLicensingInfo rdf:about="http://anupam-VirtualBox/repo/SPDX2_time-1.9.tar.gz_1535120734-spdx.rdf#LicenseRef-Freeware">
```

```
  <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
  <spdx:name>freeware</spdx:name>
  <spdx:extractedText><![CDATA[Software classified as freeware is licensed at no cost and is either fully functional for an unlimited time; or has only basic functions enabled with a fully functional version available commercially or as shareware.[8] In contrast to free software, the author usually restricts one or more rights of the user, including the rights to use, copy, distribute, modify and make derivative works of the software or extract the source code.[1][2][9][10] The software license may impose various
 additional restrictions on the type of use, e.g. only for personal use, private use, individual use, non-profit use, non-commercial use, academic use, educational use, use in charity or humanitarian organizations, non-military use, use by public authorities or various other combinations of these type of restrictions.[11] For instance, the license may be "free for private, non-commercial use". The software license may also impose various other restrictions, such as restricted use over a network, restricted use on a server, restricted use in a combination with some types of other software or with some hardware devices, prohibited distribution over the Internet other than linking to author's website, restricted distribution without author's consent, restricted number of copies, etc.]]></spdx:extractedText>
 </spdx:ExtractedLicensingInfo>
 `)
 node = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getExtractedLicensingInfoFromNode(node)
 if err != nil {
  t.Errorf("unexpected
 error: %v", err)
 }
}

func Test_rdfParser2_2_extractedLicenseToOtherLicense(t *testing.T) {
 // nothing to test for this function.
 parser, _ := parserFromBodyContent(`
 <spdx:ExtractedLicensingInfo rdf:about="http://anupam-VirtualBox/repo/SPDX2_time-1.9.tar.gz_1535120734-spdx.rdf#LicenseRef-Freeware">
  <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
  <spdx:name>freeware</spdx:name>
  <spdx:extractedText><![CDATA[Software classified as freeware is licensed at no cost and is either fully functional for an unlimited time; or has only basic functions enabled with a fully functional version available commercially or as shareware.[8] In contrast to free software, the author usually restricts one or more rights of the user, including the rights to use, copy, distribute, modify and make derivative works of the software or extract the source code.[1][2][9][10] The software license may impose various additional restrictions on the type of use, e.g. only for personal use, private use,
 individual use, non-profit use, non-commercial use, academic use, educational use, use in charity or humanitarian organizations, non-military use, use by public authorities or various other combinations of these type of restrictions.[11] For instance, the license may be "free for private, non-commercial use". The software license may also impose various other restrictions, such as restricted use over a network, restricted use on a server, restricted use in a combination with some types of other software or with some hardware devices, prohibited distribution over the Internet other than linking to author's website, restricted distribution without author's consent, restricted number of copies, etc.]]></spdx:extractedText>
 </spdx:ExtractedLicensingInfo>
 `)
 node := parser.gordfParserObj.Triples[0].Subject
 extLicense, _ := parser.getExtractedLicensingInfoFromNode(node)
```

```
 othLic := parser.extractedLicenseToOtherLicense(extLicense)

 if othLic.LicenseIdentifier != extLicense.licenseID
 {
  t.Errorf("expected %v, got %v", othLic.LicenseIdentifier, extLicense.licenseID)
 }
 if othLic.ExtractedText != extLicense.extractedText {
  t.Errorf("expected %v, got %v", othLic.ExtractedText, extLicense.extractedText)
 }
 if othLic.LicenseComment != extLicense.comment {
  t.Errorf("expected %v, got %v", othLic.LicenseComment, extLicense.comment)
 }
 if !reflect.DeepEqual(othLic.LicenseCrossReferences, extLicense.seeAlso) {
  t.Errorf("expected %v, got %v", othLic.LicenseCrossReferences, extLicense.seeAlso)
 }
 if othLic.LicenseName != extLicense.name {
  t.Errorf("expected %v, got %v", othLic.LicenseName, extLicense.name)
 }
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package writer

import (
 "bytes"
 "testing"

 spdx "github.com/spdx/tools-golang/spdx/v2/v2_3"
)

// ===== Other License section Saver tests =====
func TestSaverOtherLicenseSavesText(t *testing.T) {
 ol := &spdx.OtherLicense{
  LicenseIdentifier: "LicenseRef-1",
  ExtractedText: `License 1 text
blah blah blah
blah blah blah blah`,
  LicenseName: "License 1",
  LicenseCrossReferences: []string{
   "http://example.com/License1/",
   "http://example.com/License1AnotherURL/",
  },
  LicenseComment: "this is a license comment",
 }

 // what we want to get, as a buffer of bytes
 want := bytes.NewBufferString(`LicenseID: LicenseRef-1
ExtractedText: <text>License 1 text
```

```
blah blah blah
blah blah blah blah</text>
LicenseName: License 1
LicenseCrossReference: http://example.com/License1/
LicenseCrossReference: http://example.com/License1AnotherURL/
LicenseComment: this is a license comment

`)

 // render as buffer of bytes
 var got bytes.Buffer
 err
 := renderOtherLicense(ol, &got)
 if err != nil {
  t.Errorf("Expected nil error, got %v", err)
 }

 // check that they match
 c := bytes.Compare(want.Bytes(), got.Bytes())
 if c != 0 {
  t.Errorf("Expected %v, got %v", want.String(), got.String())
 }
}

func TestSaverOtherLicenseOmitsOptionalFieldsIfEmpty(t *testing.T) {
 ol := &spdx.OtherLicense{
  LicenseIdentifier: "LicenseRef-1",
  ExtractedText: `License 1 text
blah blah blah
blah blah blah blah`,
  LicenseName: "License 1",
 }

 // what we want to get, as a buffer of bytes
 want := bytes.NewBufferString(`LicenseID: LicenseRef-1
ExtractedText: <text>License 1 text
blah blah blah
blah blah blah blah</text>
LicenseName: License 1

`)

 // render as buffer of bytes
 var got bytes.Buffer
 err := renderOtherLicense(ol, &got)
 if err != nil {
  t.Errorf("Expected nil error, got %v", err)
 }
```

```
 // check that they match
 c := bytes.Compare(want.Bytes(), got.Bytes())
 if c != 0 {
  t.Errorf("Expected %v, got %v", want.String(),
 got.String())
 }
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package reader

import (
 "fmt"
 "strings"

 gordfParser "github.com/spdx/gordf/rdfloader/parser"
 "github.com/spdx/tools-golang/spdx/v2/common"
)

/* util methods for licenses and checksums below:*/

// Given the license URI, returns the name of the license defined
// in the last part of the uri.
// This function is susceptible to false-positives.
func getLicenseStringFromURI(uri string) string {
 licenseEnd := strings.TrimSpace(getLastPartOfURI(uri))
 lower := strings.ToLower(licenseEnd)
 if lower == "none" || lower == "noassertion" {
  return strings.ToUpper(licenseEnd)
 }
 return licenseEnd
}

// returns the checksum algorithm and it's value
// In the newer versions, these two strings will be bound to a single checksum struct
// whose pointer will be returned.
func (parser *rdfParser2_2) getChecksumFromNode(checksumNode *gordfParser.Node) (algorithm
common.ChecksumAlgorithm, value string, err error) {
 var checksumValue, checksumAlgorithm
 string
 for _, checksumTriple := range parser.nodeToTriples(checksumNode) {
  switch checksumTriple.Predicate.ID {
  case RDF_TYPE:
   continue
  case SPDX_CHECKSUM_VALUE:
   // cardinality: exactly 1
   checksumValue = strings.TrimSpace(checksumTriple.Object.ID)
```

```
  case SPDX_ALGORITHM:
   // cardinality: exactly 1
   checksumAlgorithm, err = getAlgorithmFromURI(checksumTriple.Object.ID)
   if err != nil {
    return
   }
  default:
   err = fmt.Errorf("unknown predicate '%s' while parsing checksum node", checksumTriple.Predicate.ID)
   return
  }
 }
 return common.ChecksumAlgorithm(checksumAlgorithm), checksumValue, nil
}

func getAlgorithmFromURI(algorithmURI string) (checksumAlgorithm string, err error) {
 fragment := getLastPartOfURI(algorithmURI)
 if !strings.HasPrefix(fragment, "checksumAlgorithm_") {
  return "", fmt.Errorf("checksum algorithm uri must begin with checksumAlgorithm_. found %s", fragment)
 }
 algorithm := strings.TrimPrefix(fragment, "checksumAlgorithm_")
 algorithm
 = strings.ToLower(strings.TrimSpace(algorithm))
 switch algorithm {
 case "md2", "md4", "md5", "md6":
  checksumAlgorithm = strings.ToUpper(algorithm)
 case "sha1", "sha224", "sha256", "sha384", "sha512":
  checksumAlgorithm = strings.ToUpper(algorithm)
 default:
  return "", fmt.Errorf("unknown checksum algorithm %s", algorithm)
 }
 return
}

// from a list of licenses, it returns a
// list of string representation of those licenses.
func mapLicensesToStrings(licences []AnyLicenseInfo) []string {
 res := make([]string, len(licences))
 for i, lic := range licences {
  res[i] = lic.ToLicenseString()
 }
 return res
}

/****** Type Functions ******/

// TODO: should probably add brackets while linearizing a nested license.
func (lic ConjunctiveLicenseSet) ToLicenseString() string {
 return strings.Join(mapLicensesToStrings(lic.members), " AND ")
```

```
}

// TODO: should probably add brackets while linearizing a nested license.
func (lic DisjunctiveLicenseSet) ToLicenseString()
 string {
 return strings.Join(mapLicensesToStrings(lic.members), " OR ")
}

func (lic ExtractedLicensingInfo) ToLicenseString() string {
 return lic.licenseID
}

func (operator OrLaterOperator) ToLicenseString() string {
 return operator.member.ToLicenseString()
}

func (lic License) ToLicenseString() string {
 return lic.licenseID
}

func (lic ListedLicense) ToLicenseString() string {
 return lic.licenseID
}

func (lic WithExceptionOperator) ToLicenseString() string {
 return lic.member.ToLicenseString()
}

func (lic SpecialLicense) ToLicenseString() string {
 return string(lic.value)
}

func (lic SimpleLicensingInfo) ToLicenseString() string {
 return lic.licenseID
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package reader

import (
 "fmt"
 "strings"

 gordfParser "github.com/spdx/gordf/rdfloader/parser"
 "github.com/spdx/tools-golang/spdx/v2/common"
)

/* util methods for licenses and checksums below:*/
```

```
// Given the license URI, returns the name of the license defined
// in the last part of the uri.
// This function is susceptible to false-positives.
func getLicenseStringFromURI(uri string) string {
 licenseEnd := strings.TrimSpace(getLastPartOfURI(uri))
 lower := strings.ToLower(licenseEnd)
 if lower == "none" || lower == "noassertion" {
  return strings.ToUpper(licenseEnd)
 }
 return licenseEnd
}

// returns the checksum algorithm and it's value
// In the newer versions, these two strings will be bound to a single checksum struct
// whose pointer will be returned.
func (parser *rdfParser2_3) getChecksumFromNode(checksumNode *gordfParser.Node) (algorithm
common.ChecksumAlgorithm, value string, err error) {
 var checksumValue, checksumAlgorithm
 string
 for _, checksumTriple := range parser.nodeToTriples(checksumNode) {
  switch checksumTriple.Predicate.ID {
  case RDF_TYPE:
   continue
  case SPDX_CHECKSUM_VALUE:
   // cardinality: exactly 1
   checksumValue = strings.TrimSpace(checksumTriple.Object.ID)
  case SPDX_ALGORITHM:
   // cardinality: exactly 1
   checksumAlgorithm, err = getAlgorithmFromURI(checksumTriple.Object.ID)
   if err != nil {
    return
   }
  default:
   err = fmt.Errorf("unknown predicate '%s' while parsing checksum node", checksumTriple.Predicate.ID)
   return
  }
 }
 return common.ChecksumAlgorithm(checksumAlgorithm), checksumValue, nil
}

func getAlgorithmFromURI(algorithmURI string) (checksumAlgorithm string, err error) {
 fragment := getLastPartOfURI(algorithmURI)
 if !strings.HasPrefix(fragment, "checksumAlgorithm_") {
  return "", fmt.Errorf("checksum algorithm uri must begin with checksumAlgorithm_. found %s", fragment)
 }
 algorithm := strings.TrimPrefix(fragment, "checksumAlgorithm_")
 algorithm
```

```
 = strings.ToLower(strings.TrimSpace(algorithm))
 switch algorithm {
 case "md2", "md4", "md5", "md6":
  checksumAlgorithm = strings.ToUpper(algorithm)
 case "sha1", "sha224", "sha256", "sha384", "sha512":
  checksumAlgorithm = strings.ToUpper(algorithm)
 default:
  return "", fmt.Errorf("unknown checksum algorithm %s", algorithm)
 }
 return
}

// from a list of licenses, it returns a
// list of string representation of those licenses.
func mapLicensesToStrings(licences []AnyLicenseInfo) []string {
 res := make([]string, len(licences))
 for i, lic := range licences {
  res[i] = lic.ToLicenseString()
 }
 return res
}

/****** Type Functions ******/

// TODO: should probably add brackets while linearizing a nested license.
func (lic ConjunctiveLicenseSet) ToLicenseString() string {
 return strings.Join(mapLicensesToStrings(lic.members), " AND ")
}

// TODO: should probably add brackets while linearizing a nested license.
func (lic DisjunctiveLicenseSet) ToLicenseString()
 string {
 return strings.Join(mapLicensesToStrings(lic.members), " OR ")
}

func (lic ExtractedLicensingInfo) ToLicenseString() string {
 return lic.licenseID
}

func (operator OrLaterOperator) ToLicenseString() string {
 return operator.member.ToLicenseString()
}

func (lic License) ToLicenseString() string {
 return lic.licenseID
}

func (lic ListedLicense) ToLicenseString() string {
```

```
 return lic.licenseID
}

func (lic WithExceptionOperator) ToLicenseString() string {
 return lic.member.ToLicenseString()
}

func (lic SpecialLicense) ToLicenseString() string {
 return string(lic.value)
}

func (lic SimpleLicensingInfo) ToLicenseString() string {
 return lic.licenseID
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package reader

import (
 "fmt"

 gordfParser "github.com/spdx/gordf/rdfloader/parser"
 "github.com/spdx/gordf/rdfwriter"
 spdx "github.com/spdx/tools-golang/spdx/v2/v2_3"
)

func (parser *rdfParser2_3) getExtractedLicensingInfoFromNode(node *gordfParser.Node) (lic
ExtractedLicensingInfo, err error) {
 associatedTriples := rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
 var restTriples []*gordfParser.Triple
 for _, triple := range associatedTriples {
  switch triple.Predicate.ID {
  case SPDX_EXTRACTED_TEXT:
   lic.extractedText = triple.Object.ID
  default:
   restTriples = append(restTriples, triple)
  }
 }
 lic.SimpleLicensingInfo, err = parser.getSimpleLicensingInfoFromTriples(restTriples)
 if err != nil {
  return lic, fmt.Errorf("error setting simple licensing information of extracted licensing info: %s", err)
 }
 return lic, nil
}

func (parser *rdfParser2_3) extractedLicenseToOtherLicense(extLicense
 ExtractedLicensingInfo) (othLic spdx.OtherLicense) {
 othLic.LicenseIdentifier = extLicense.licenseID
```

```
 othLic.ExtractedText = extLicense.extractedText
 othLic.LicenseComment = extLicense.comment
 othLic.LicenseCrossReferences = extLicense.seeAlso
 othLic.LicenseName = extLicense.name
 return othLic
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package v2_3

// OtherLicense is an Other License Information section of an SPDX Document
type OtherLicense struct {
 // 10.1: License Identifier: "LicenseRef-[idstring]"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 10.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //              License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 10.3: License Name: single line of text or "NOASSERTION"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseName string `json:"name,omitempty"`

 // 10.4: License Cross Reference
 // Cardinality: conditional (optional, one or many) if license
 //              is not on SPDX License List
 LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

 // 10.5: License Comment
 // Cardinality:
 optional, one
 LicenseComment string `json:"comment,omitempty"`
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package writer

import (
 "fmt"
 "io"

 spdx "github.com/spdx/tools-golang/spdx/v2/v2_2"
)
```

```
func renderOtherLicense(ol *spdx.OtherLicense, w io.Writer) error {
 if ol.LicenseIdentifier != "" {
  fmt.Fprintf(w, "LicenseID: %s\n", ol.LicenseIdentifier)
 }
 if ol.ExtractedText != "" {
  fmt.Fprintf(w, "ExtractedText: %s\n", textify(ol.ExtractedText))
 }
 if ol.LicenseName != "" {
  fmt.Fprintf(w, "LicenseName: %s\n", ol.LicenseName)
 }
 for _, s := range ol.LicenseCrossReferences {
  fmt.Fprintf(w, "LicenseCrossReference: %s\n", s)
 }
 if ol.LicenseComment != "" {
  fmt.Fprintf(w, "LicenseComment: %s\n", textify(ol.LicenseComment))
 }

 fmt.Fprintf(w, "\n")

 return nil
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package reader

import (
 "reflect"
 "testing"
)

func Test_getLicenseStringFromURI(t *testing.T) {
 // TestCase 1: NONE license
 input := SPDX_NONE_CAPS
 output := getLicenseStringFromURI(input)
 expectedOutput := "NONE"
 if output != expectedOutput {
  t.Errorf("expected: %s, found %s", expectedOutput, output)
 }

 // TestCase 2: NOASSERTION license
 input = SPDX_NOASSERTION_SMALL
 output = getLicenseStringFromURI(input)
 expectedOutput = "NOASSERTION"
 if output != expectedOutput {
  t.Errorf("expected: %s, found %s", expectedOutput, output)
 }

 // TestCase 3: Other license
```

```
 input = NS_SPDX + "LicenseRef-1"
 output = getLicenseStringFromURI(input)
 expectedOutput = "LicenseRef-1"
 if output != expectedOutput {
  t.Errorf("expected: %s, found %s", expectedOutput, output)
 }
}

func Test_rdfParser2_3_getChecksumFromNode(t *testing.T) {
 var parser *rdfParser2_3
 var err error
 // TestCase 1: invalid checksum algorithm
 parser,
 _ = parserFromBodyContent(`
  <spdx:Checksum>
   <spdx:checksumValue>2fd4e1c67a2d28fced849ee1bb76e7391b93eb12</spdx:checksumValue>
   <spdx:algorithm rdf:resource="http://spdx.org/rdf/terms#checksumAlgorithm_sha999"/>
  </spdx:Checksum>
 `)
 checksumNode := parser.gordfParserObj.Triples[0].Subject
 _, _, err = parser.getChecksumFromNode(checksumNode)
 if err == nil {
  t.Errorf("expected an error saying invalid checksum algorithm")
 }

 // TestCase 2: invalid predicate
 parser, _ = parserFromBodyContent(`
  <spdx:Checksum>
   <spdx:checksumValue>2fd4e1c67a2d28fced849ee1bb76e7391b93eb12</spdx:checksumValue>
   <spdx:algorithm rdf:resource="http://spdx.org/rdf/terms#checksumAlgorithm_sha1"/>
   <spdx:invalidPredicate />
  </spdx:Checksum>
 `)
 checksumNode = parser.gordfParserObj.Triples[0].Subject
 _, _, err = parser.getChecksumFromNode(checksumNode)
 if err == nil {
  t.Errorf("expected an error saying invalid predicate")
 }

 // TestCase 3: valid input
 parser, _ = parserFromBodyContent(`
  <spdx:Checksum>
   <spdx:checksumValue>2fd4e1c67a2d28fced849ee1bb76e7391b93eb12</spdx:checksumValue>
   <spdx:algorithm
 rdf:resource="http://spdx.org/rdf/terms#checksumAlgorithm_sha1"/>
  </spdx:Checksum>
 `)
 checksumNode = parser.gordfParserObj.Triples[0].Subject
```

```
 algorithm, value, err := parser.getChecksumFromNode(checksumNode)
 if err != nil {
  t.Errorf("unexpected error: %v", err)
 }
 if algorithm != "SHA1" {
  t.Errorf("expected checksum algorithm to be sha1, found %s", algorithm)
 }
 expectedValue := "2fd4e1c67a2d28fced849ee1bb76e7391b93eb12"
 if value != expectedValue {
  t.Errorf("expected checksumValue to be %s, found %s", expectedValue, value)
 }
}

func Test_rdfParser2_3_getAlgorithmFromURI(t *testing.T) {
 var algorithmURI string
 var err error

 // TestCase 1: checksumAlgorithm uri doesn't start with checksumAlgorithm_
 algorithmURI = NS_SPDX + "sha1"
 _, err = getAlgorithmFromURI(algorithmURI)
 if err == nil {
  t.Errorf("should've raised an error for algorithmURI
 that doesn't start with checksumAlgorithm_")
 }

 // TestCase 2: unknown checksum algorithm
 algorithmURI = NS_SPDX + "checksumAlgorithm_sha999"
 _, err = getAlgorithmFromURI(algorithmURI)
 if err == nil {
  t.Errorf("should've raised an error for invalid algorithm")
 }

 // TestCase 3: valid input
 algorithmURI = NS_SPDX + "checksumAlgorithm_sha256"
 algorithm, err := getAlgorithmFromURI(algorithmURI)
 if err != nil {
  t.Errorf("unexpected error: %v", err)
 }
 if algorithm != "SHA256" {
  t.Errorf("expected: SHA256, found: %s", algorithm)
 }
}

func Test_mapLicensesToStrings(t *testing.T) {
 // nothing much to test here.
 // just a dummy dry run.
 licenses := []AnyLicenseInfo{
  SpecialLicense{
```

```
  value: NONE,
 },
 SpecialLicense{
  value: NOASSERTION,
 },
}
licenseStrings := mapLicensesToStrings(licenses)
expectedLicenseStrings := []string{"NONE", "NOASSERTION"}
if !reflect.DeepEqual(licenseStrings, expectedLicenseStrings) {
 t.Errorf("expected: %+v\nfound %+v", expectedLicenseStrings,
licenseStrings)
}
}

func TestConjunctiveLicenseSet_ToLicenseString(t *testing.T) {
 var lic ConjunctiveLicenseSet
 var output, expectedOutput string

 // TestCase 1: no license in the set
 lic = ConjunctiveLicenseSet{
  members: nil,
 }
 output = lic.ToLicenseString()
 expectedOutput = ""
 if output != expectedOutput {
  t.Errorf("expected: %s, found %s", output, expectedOutput)
 }

 // TestCase 2: single license in the set
 lic = ConjunctiveLicenseSet{
  members: []AnyLicenseInfo{
   SpecialLicense{value: NOASSERTION},
  },
 }
 output = lic.ToLicenseString()
 expectedOutput = "NOASSERTION"
 if output != expectedOutput {
  t.Errorf("expected: %s, found %s", output, expectedOutput)
 }

 // TestCase 3: more than one license in the set.
 lic = ConjunctiveLicenseSet{
  members: []AnyLicenseInfo{
   SpecialLicense{value: NOASSERTION},
   SpecialLicense{value: NONE},
  },
 }
 output = lic.ToLicenseString()
```

```
 expectedOutput = "NOASSERTION AND NONE"
 if output != expectedOutput
 {
  t.Errorf("expected: %s, found %s", output, expectedOutput)
 }

 // TestCase 4: nested conjunctive license.
 lic = ConjunctiveLicenseSet{
  members: []AnyLicenseInfo{
   SpecialLicense{value: NOASSERTION},
   ConjunctiveLicenseSet{
    members: []AnyLicenseInfo{
     SpecialLicense{value: "LicenseRef-1"},
     SpecialLicense{value: NONE},
    },
   },
  },
 }
 output = lic.ToLicenseString()
 expectedOutput = "NOASSERTION AND LicenseRef-1 AND NONE"
 if output != expectedOutput {
  t.Errorf("expected: %s, found %s", output, expectedOutput)
 }
}

func TestDisjunctiveLicenseSet_ToLicenseString(t *testing.T) {
 var lic DisjunctiveLicenseSet
 var output, expectedOutput string

 // TestCase 1: no license in the set
 lic = DisjunctiveLicenseSet{
  members: nil,
 }
 output = lic.ToLicenseString()
 expectedOutput = ""
 if output != expectedOutput {
  t.Errorf("expected: %s, found %s", output, expectedOutput)
 }

 // TestCase 2: single license in the set
 lic = DisjunctiveLicenseSet{
  members:
 []AnyLicenseInfo{
   SpecialLicense{value: NOASSERTION},
  },
 }
 output = lic.ToLicenseString()
 expectedOutput = "NOASSERTION"
```

```
 if output != expectedOutput {
  t.Errorf("expected: %s, found %s", output, expectedOutput)
 }

 // TestCase 3: more than one license in the set.
 lic = DisjunctiveLicenseSet{
  members: []AnyLicenseInfo{
   SpecialLicense{value: NOASSERTION},
   SpecialLicense{value: NONE},
  },
 }
 output = lic.ToLicenseString()
 expectedOutput = "NOASSERTION OR NONE"
 if output != expectedOutput {
  t.Errorf("expected: %s, found %s", output, expectedOutput)
 }

 // TestCase 4: nested conjunctive license.
 lic = DisjunctiveLicenseSet{
  members: []AnyLicenseInfo{
   SpecialLicense{value: NOASSERTION},
   DisjunctiveLicenseSet{
    members: []AnyLicenseInfo{
     SpecialLicense{value: "LicenseRef-1"},
     SpecialLicense{value: NONE},
    },
   },
  },
 }
 output = lic.ToLicenseString()
 expectedOutput = "NOASSERTION OR LicenseRef-1 OR NONE"
 if output != expectedOutput
 {
  t.Errorf("expected: %s, found %s", output, expectedOutput)
 }
}

func TestExtractedLicensingInfo_ToLicenseString(t *testing.T) {
 // nothing to test (just a dry run)
 extractedLicense := ExtractedLicensingInfo{
  SimpleLicensingInfo: SimpleLicensingInfo{
   licenseID: "license",
  },
  extractedText: "extracted Text",
 }
 expectedOutput := "license"
 output := extractedLicense.ToLicenseString()
 if output != expectedOutput {
```

```
  t.Errorf("expected: %s, found: %s", expectedOutput, output)
 }
}

func TestOrLaterOperator_ToLicenseString(t *testing.T) {
 // nothing to test (just a dry run)
 orLater := OrLaterOperator{
  member: SimpleLicensingInfo{
   licenseID: "license",
  },
 }
 expectedOutput := "license"
 output := orLater.ToLicenseString()
 if output != expectedOutput {
  t.Errorf("expected: %s, found: %s", expectedOutput, output)
 }
}

func TestLicense_ToLicenseString(t *testing.T) {
 // nothing to test (just a dry run)
 license := License{
  SimpleLicensingInfo: SimpleLicensingInfo{
   licenseID:
 "license",
  },
 }
 expectedOutput := "license"
 output := license.ToLicenseString()
 if output != expectedOutput {
  t.Errorf("expected: %s, found: %s", expectedOutput, output)
 }
}

func TestListedLicense_ToLicenseString(t *testing.T) {
 // nothing to test (just a dry run)
 ll := ListedLicense{License{
  SimpleLicensingInfo: SimpleLicensingInfo{
   licenseID: "license",
  },
 },
 }
 expectedOutput := "license"
 output := ll.ToLicenseString()
 if output != expectedOutput {
  t.Errorf("expected: %s, found: %s", expectedOutput, output)
 }
}
```

```
func TestWithExceptionOperator_ToLicenseString(t *testing.T) {
 // nothing to test (just a dry run)
 withException := WithExceptionOperator{
  member: SimpleLicensingInfo{
   licenseID: "license",
  },
  licenseException: LicenseException{},
 }
 expectedOutput := "license"
 output := withException.ToLicenseString()
 if output != expectedOutput {
  t.Errorf("expected: %s, found: %s", expectedOutput, output)
 }
}

func TestSpecialLicense_ToLicenseString(t
 *testing.T) {
 // nothing to test (just a dry run)
 specialLicense := SpecialLicense{
  value: "license",
 }
 expectedOutput := "license"
 output := specialLicense.ToLicenseString()
 if output != expectedOutput {
  t.Errorf("expected: %s, found: %s", expectedOutput, output)
 }
}

func TestSimpleLicensingInfo_ToLicenseString(t *testing.T) {
 // nothing to test (just a dry run)
 sli := SimpleLicensingInfo{
  licenseID: "license",
 }
 expectedOutput := "license"
 output := sli.ToLicenseString()
 if output != expectedOutput {
  t.Errorf("expected: %s, found: %s", expectedOutput, output)
 }
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package reader

import (
 "reflect"
 "testing"
)
```

```
func Test_getLicenseStringFromURI(t *testing.T) {
 // TestCase 1: NONE license
 input := SPDX_NONE_CAPS
 output := getLicenseStringFromURI(input)
 expectedOutput := "NONE"
 if output != expectedOutput {
  t.Errorf("expected: %s, found %s", expectedOutput, output)
 }

 // TestCase 2: NOASSERTION license
 input = SPDX_NOASSERTION_SMALL
 output = getLicenseStringFromURI(input)
 expectedOutput = "NOASSERTION"
 if output != expectedOutput {
  t.Errorf("expected: %s, found %s", expectedOutput, output)
 }

 // TestCase 3: Other license
 input = NS_SPDX + "LicenseRef-1"
 output = getLicenseStringFromURI(input)
 expectedOutput = "LicenseRef-1"
 if output != expectedOutput {
  t.Errorf("expected: %s, found %s", expectedOutput, output)
 }
}

func Test_rdfParser2_2_getChecksumFromNode(t *testing.T) {
 var parser *rdfParser2_2
 var err error
 // TestCase 1: invalid checksum algorithm
 parser,
 _ = parserFromBodyContent(`
  <spdx:Checksum>
   <spdx:checksumValue>2fd4e1c67a2d28fced849ee1bb76e7391b93eb12</spdx:checksumValue>
   <spdx:algorithm rdf:resource="http://spdx.org/rdf/terms#checksumAlgorithm_sha999"/>
  </spdx:Checksum>
 `)
 checksumNode := parser.gordfParserObj.Triples[0].Subject
 _, _, err = parser.getChecksumFromNode(checksumNode)
 if err == nil {
  t.Errorf("expected an error saying invalid checksum algorithm")
 }

 // TestCase 2: invalid predicate
 parser, _ = parserFromBodyContent(`
  <spdx:Checksum>
   <spdx:checksumValue>2fd4e1c67a2d28fced849ee1bb76e7391b93eb12</spdx:checksumValue>
   <spdx:algorithm rdf:resource="http://spdx.org/rdf/terms#checksumAlgorithm_sha1"/>
```

```
  <spdx:invalidPredicate />
 </spdx:Checksum>
`)
checksumNode = parser.gordfParserObj.Triples[0].Subject
_, _, err = parser.getChecksumFromNode(checksumNode)
if err == nil {
 t.Errorf("expected an error saying invalid predicate")
}

// TestCase 3: valid input
parser, _ = parserFromBodyContent(`
 <spdx:Checksum>
  <spdx:checksumValue>2fd4e1c67a2d28fced849ee1bb76e7391b93eb12</spdx:checksumValue>
  <spdx:algorithm
rdf:resource="http://spdx.org/rdf/terms#checksumAlgorithm_sha1"/>
 </spdx:Checksum>
`)
checksumNode = parser.gordfParserObj.Triples[0].Subject
algorithm, value, err := parser.getChecksumFromNode(checksumNode)
if err != nil {
 t.Errorf("unexpected error: %v", err)
}
if algorithm != "SHA1" {
 t.Errorf("expected checksum algorithm to be sha1, found %s", algorithm)
}
expectedValue := "2fd4e1c67a2d28fced849ee1bb76e7391b93eb12"
if value != expectedValue {
 t.Errorf("expected checksumValue to be %s, found %s", expectedValue, value)
}
}

func Test_rdfParser2_2_getAlgorithmFromURI(t *testing.T) {
 var algorithmURI string
 var err error

 // TestCase 1: checksumAlgorithm uri doesn't start with checksumAlgorithm_
 algorithmURI = NS_SPDX + "sha1"
 _, err = getAlgorithmFromURI(algorithmURI)
 if err == nil {
  t.Errorf("should've raised an error for algorithmURI
 that doesn't start with checksumAlgorithm_")
 }

 // TestCase 2: unknown checksum algorithm
 algorithmURI = NS_SPDX + "checksumAlgorithm_sha999"
 _, err = getAlgorithmFromURI(algorithmURI)
 if err == nil {
  t.Errorf("should've raised an error for invalid algorithm")
```

```
 }

 // TestCase 3: valid input
 algorithmURI = NS_SPDX + "checksumAlgorithm_sha256"
 algorithm, err := getAlgorithmFromURI(algorithmURI)
 if err != nil {
  t.Errorf("unexpected error: %v", err)
 }
 if algorithm != "SHA256" {
  t.Errorf("expected: SHA256, found: %s", algorithm)
 }
}

func Test_mapLicensesToStrings(t *testing.T) {
 // nothing much to test here.
 // just a dummy dry run.
 licenses := []AnyLicenseInfo{
  SpecialLicense{
   value: NONE,
  },
  SpecialLicense{
   value: NOASSERTION,
  },
 }
 licenseStrings := mapLicensesToStrings(licenses)
 expectedLicenseStrings := []string{"NONE", "NOASSERTION"}
 if !reflect.DeepEqual(licenseStrings, expectedLicenseStrings) {
  t.Errorf("expected: %+v\nfound %+v", expectedLicenseStrings,
 licenseStrings)
 }
}

func TestConjunctiveLicenseSet_ToLicenseString(t *testing.T) {
 var lic ConjunctiveLicenseSet
 var output, expectedOutput string

 // TestCase 1: no license in the set
 lic = ConjunctiveLicenseSet{
  members: nil,
 }
 output = lic.ToLicenseString()
 expectedOutput = ""
 if output != expectedOutput {
  t.Errorf("expected: %s, found %s", output, expectedOutput)
 }

 // TestCase 2: single license in the set
 lic = ConjunctiveLicenseSet{
```

```
 members: []AnyLicenseInfo{
  SpecialLicense{value: NOASSERTION},
 },
}
output = lic.ToLicenseString()
expectedOutput = "NOASSERTION"
if output != expectedOutput {
 t.Errorf("expected: %s, found %s", output, expectedOutput)
}

// TestCase 3: more than one license in the set.
lic = ConjunctiveLicenseSet{
 members: []AnyLicenseInfo{
  SpecialLicense{value: NOASSERTION},
  SpecialLicense{value: NONE},
 },
}
output = lic.ToLicenseString()
expectedOutput = "NOASSERTION AND NONE"
if output != expectedOutput
{
 t.Errorf("expected: %s, found %s", output, expectedOutput)
}

// TestCase 4: nested conjunctive license.
lic = ConjunctiveLicenseSet{
 members: []AnyLicenseInfo{
  SpecialLicense{value: NOASSERTION},
  ConjunctiveLicenseSet{
   members: []AnyLicenseInfo{
    SpecialLicense{value: "LicenseRef-1"},
    SpecialLicense{value: NONE},
   },
  },
 },
}
output = lic.ToLicenseString()
expectedOutput = "NOASSERTION AND LicenseRef-1 AND NONE"
if output != expectedOutput {
 t.Errorf("expected: %s, found %s", output, expectedOutput)
}
}

func TestDisjunctiveLicenseSet_ToLicenseString(t *testing.T) {
 var lic DisjunctiveLicenseSet
 var output, expectedOutput string

 // TestCase 1: no license in the set
```

```
lic = DisjunctiveLicenseSet{
 members: nil,
}
output = lic.ToLicenseString()
expectedOutput = ""
if output != expectedOutput {
 t.Errorf("expected: %s, found %s", output, expectedOutput)
}

// TestCase 2: single license in the set
lic = DisjunctiveLicenseSet{
 members:
[]AnyLicenseInfo{
  SpecialLicense{value: NOASSERTION},
 },
}
output = lic.ToLicenseString()
expectedOutput = "NOASSERTION"
if output != expectedOutput {
 t.Errorf("expected: %s, found %s", output, expectedOutput)
}

// TestCase 3: more than one license in the set.
lic = DisjunctiveLicenseSet{
 members: []AnyLicenseInfo{
  SpecialLicense{value: NOASSERTION},
  SpecialLicense{value: NONE},
 },
}
output = lic.ToLicenseString()
expectedOutput = "NOASSERTION OR NONE"
if output != expectedOutput {
 t.Errorf("expected: %s, found %s", output, expectedOutput)
}

// TestCase 4: nested conjunctive license.
lic = DisjunctiveLicenseSet{
 members: []AnyLicenseInfo{
  SpecialLicense{value: NOASSERTION},
  DisjunctiveLicenseSet{
   members: []AnyLicenseInfo{
    SpecialLicense{value: "LicenseRef-1"},
    SpecialLicense{value: NONE},
   },
  },
 },
}
output = lic.ToLicenseString()
```

```
 expectedOutput = "NOASSERTION OR LicenseRef-1 OR NONE"
 if output != expectedOutput
 {
  t.Errorf("expected: %s, found %s", output, expectedOutput)
 }
}

func TestExtractedLicensingInfo_ToLicenseString(t *testing.T) {
 // nothing to test (just a dry run)
 extractedLicense := ExtractedLicensingInfo{
  SimpleLicensingInfo: SimpleLicensingInfo{
   licenseID: "license",
  },
  extractedText: "extracted Text",
 }
 expectedOutput := "license"
 output := extractedLicense.ToLicenseString()
 if output != expectedOutput {
  t.Errorf("expected: %s, found: %s", expectedOutput, output)
 }
}

func TestOrLaterOperator_ToLicenseString(t *testing.T) {
 // nothing to test (just a dry run)
 orLater := OrLaterOperator{
  member: SimpleLicensingInfo{
   licenseID: "license",
  },
 }
 expectedOutput := "license"
 output := orLater.ToLicenseString()
 if output != expectedOutput {
  t.Errorf("expected: %s, found: %s", expectedOutput, output)
 }
}

func TestLicense_ToLicenseString(t *testing.T) {
 // nothing to test (just a dry run)
 license := License{
  SimpleLicensingInfo: SimpleLicensingInfo{
   licenseID:
 "license",
  },
 }
 expectedOutput := "license"
 output := license.ToLicenseString()
 if output != expectedOutput {
  t.Errorf("expected: %s, found: %s", expectedOutput, output)
```

```
 }
}

func TestListedLicense_ToLicenseString(t *testing.T) {
 // nothing to test (just a dry run)
 ll := ListedLicense{License{
  SimpleLicensingInfo: SimpleLicensingInfo{
   licenseID: "license",
  },
 },
 }
 expectedOutput := "license"
 output := ll.ToLicenseString()
 if output != expectedOutput {
  t.Errorf("expected: %s, found: %s", expectedOutput, output)
 }
}

func TestWithExceptionOperator_ToLicenseString(t *testing.T) {
 // nothing to test (just a dry run)
 withException := WithExceptionOperator{
  member: SimpleLicensingInfo{
   licenseID: "license",
  },
  licenseException: LicenseException{},
 }
 expectedOutput := "license"
 output := withException.ToLicenseString()
 if output != expectedOutput {
  t.Errorf("expected: %s, found: %s", expectedOutput, output)
 }
}

func TestSpecialLicense_ToLicenseString(t
 *testing.T) {
 // nothing to test (just a dry run)
 specialLicense := SpecialLicense{
  value: "license",
 }
 expectedOutput := "license"
 output := specialLicense.ToLicenseString()
 if output != expectedOutput {
  t.Errorf("expected: %s, found: %s", expectedOutput, output)
 }
}

func TestSimpleLicensingInfo_ToLicenseString(t *testing.T) {
 // nothing to test (just a dry run)
```

```
 sli := SimpleLicensingInfo{
  licenseID: "license",
 }
 expectedOutput := "license"
 output := sli.ToLicenseString()
 if output != expectedOutput {
  t.Errorf("expected: %s, found: %s", expectedOutput, output)
 }
}
```

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```
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package v2_2

// OtherLicense is an Other License Information section of an
// SPDX Document for version 2.2 of the spec.
type OtherLicense struct {
 // 10.1: License Identifier: "LicenseRef-[idstring]"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 10.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //              License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 10.3: License Name: single line of text or "NOASSERTION"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseName string `json:"name,omitempty"`

 // 10.4: License Cross Reference
 // Cardinality: conditional (optional, one or many) if license
 //              is not on SPDX License List
 LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

 //
 10.5: License Comment
 // Cardinality: optional, one
 LicenseComment string `json:"comment,omitempty"`
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package writer

import (
```

```
 "bytes"
 "testing"

 spdx "github.com/spdx/tools-golang/spdx/v2/v2_1"
)

// ===== Other License section Saver tests =====
func TestSaverOtherLicenseSavesText(t *testing.T) {
 ol := &spdx.OtherLicense{
  LicenseIdentifier: "LicenseRef-1",
  ExtractedText: `License 1 text
blah blah blah
blah blah blah blah`,
  LicenseName: "License 1",
  LicenseCrossReferences: []string{
   "http://example.com/License1/",
   "http://example.com/License1AnotherURL/",
  },
  LicenseComment: "this is a license comment",
 }

 // what we want to get, as a buffer of bytes
 want := bytes.NewBufferString(`LicenseID: LicenseRef-1
ExtractedText: <text>License 1 text
blah blah blah
blah blah blah blah</text>
LicenseName: License 1
LicenseCrossReference: http://example.com/License1/
LicenseCrossReference: http://example.com/License1AnotherURL/
LicenseComment: this is a license comment

`)

 // render as buffer of bytes
 var got bytes.Buffer
 err
 := renderOtherLicense(ol, &got)
 if err != nil {
  t.Errorf("Expected nil error, got %v", err)
 }

 // check that they match
 c := bytes.Compare(want.Bytes(), got.Bytes())
 if c != 0 {
  t.Errorf("Expected %v, got %v", want.String(), got.String())
 }
}
```

```
func TestSaverOtherLicenseOmitsOptionalFieldsIfEmpty(t *testing.T) {
 ol := &spdx.OtherLicense{
  LicenseIdentifier: "LicenseRef-1",
  ExtractedText: `License 1 text
blah blah blah
blah blah blah blah`,
  LicenseName: "License 1",
 }

 // what we want to get, as a buffer of bytes
 want := bytes.NewBufferString(`LicenseID: LicenseRef-1
ExtractedText: <text>License 1 text
blah blah blah
blah blah blah blah</text>
LicenseName: License 1

`)

 // render as buffer of bytes
 var got bytes.Buffer
 err := renderOtherLicense(ol, &got)
 if err != nil {
  t.Errorf("Expected nil error, got %v", err)
 }

 // check that they match
 c := bytes.Compare(want.Bytes(), got.Bytes())
 if c != 0 {
  t.Errorf("Expected %v, got %v", want.String(),
 got.String())
 }
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package reader

import (
 "reflect"
 "testing"

 gordfParser "github.com/spdx/gordf/rdfloader/parser"
)

func Test_rdfParser2_3_getExtractedLicensingInfoFromNode(t *testing.T) {
 var parser *rdfParser2_3
 var err error
 var node *gordfParser.Node
```

```
 // TestCase 1: invalid predicate must raise an error
 parser, _ = parserFromBodyContent(`
  <spdx:ExtractedLicensingInfo rdf:about="http://anupam-VirtualBox/repo/SPDX2_time-1.9.tar.gz_1535120734-spdx.rdf#LicenseRef-Freeware">
   <spdx:licenseID>LicenseRef-Freeware</spdx:licenseID>
   <spdx:name>freeware</spdx:name>
   <spdx:extractedText><![CDATA[Software classified as freeware is licensed at no cost and is either fully functional for an unlimited time; or has only basic functions enabled with a fully functional version available commercially or as shareware.[8] In contrast to free software, the author usually restricts one or more rights of the user, including the rights to use, copy,
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  </spdx:ExtractedLicensingInfo>
 `)
 node
 = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getExtractedLicensingInfoFromNode(node)
 if err == nil {
  t.Errorf("expected an error saying invalid predicate, got <nil>")
 }

 // TestCase 2: valid input
 parser, _ = parserFromBodyContent(`
  <spdx:ExtractedLicensingInfo rdf:about="http://anupam-VirtualBox/repo/SPDX2_time-1.9.tar.gz_1535120734-spdx.rdf#LicenseRef-Freeware">
   <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
   <spdx:name>freeware</spdx:name>
   <spdx:extractedText><![CDATA[Software classified as freeware is licensed at no cost and is either fully functional for an unlimited time; or has only basic functions enabled with a fully functional version available commercially or as shareware.[8] In contrast to free software, the author usually restricts one or more rights of the user, including the rights to use, copy, distribute, modify and make derivative works of the software or extract the source code.[1][2][9][10] The software license may impose various
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  </spdx:ExtractedLicensingInfo>
 `)
```

```
 node = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getExtractedLicensingInfoFromNode(node)
 if err != nil {
  t.Errorf("unexpected
 error: %v", err)
 }
}

func Test_rdfParser2_3_extractedLicenseToOtherLicense(t *testing.T) {
 // nothing to test for this function.
 parser, _ := parserFromBodyContent(`
  <spdx:ExtractedLicensingInfo rdf:about="http://anupam-VirtualBox/repo/SPDX2_time-1.9.tar.gz_1535120734-
spdx.rdf#LicenseRef-Freeware">
   <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
   <spdx:name>freeware</spdx:name>
   <spdx:extractedText><![CDATA[Software classified as freeware is licensed at no cost and is either fully functional
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Internet other than linking to author's website, restricted distribution without author's consent, restricted number of
copies, etc.]]></spdx:extractedText>
  </spdx:ExtractedLicensingInfo>
 `)
 node := parser.gordfParserObj.Triples[0].Subject
 extLicense, _ := parser.getExtractedLicensingInfoFromNode(node)
 othLic := parser.extractedLicenseToOtherLicense(extLicense)

 if othLic.LicenseIdentifier != extLicense.licenseID
 {
  t.Errorf("expected %v, got %v", othLic.LicenseIdentifier, extLicense.licenseID)
 }
 if othLic.ExtractedText != extLicense.extractedText {
  t.Errorf("expected %v, got %v", othLic.ExtractedText, extLicense.extractedText)
 }
 if othLic.LicenseComment != extLicense.comment {
  t.Errorf("expected %v, got %v", othLic.LicenseComment, extLicense.comment)
 }
 if !reflect.DeepEqual(othLic.LicenseCrossReferences, extLicense.seeAlso) {
  t.Errorf("expected %v, got %v", othLic.LicenseCrossReferences, extLicense.seeAlso)
 }
 if othLic.LicenseName != extLicense.name {
```

```
  t.Errorf("expected %v, got %v", othLic.LicenseName, extLicense.name)
 }
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package reader

import (
 "fmt"

 gordfParser "github.com/spdx/gordf/rdfloader/parser"
 "github.com/spdx/gordf/rdfwriter"
 "github.com/spdx/tools-golang/spdx/v2/v2_2"
)

func (parser *rdfParser2_2) getExtractedLicensingInfoFromNode(node *gordfParser.Node) (lic
ExtractedLicensingInfo, err error) {
 associatedTriples := rdfwriter.FilterTriples(parser.gordfParserObj.Triples, &node.ID, nil, nil)
 var restTriples []*gordfParser.Triple
 for _, triple := range associatedTriples {
  switch triple.Predicate.ID {
  case SPDX_EXTRACTED_TEXT:
   lic.extractedText = triple.Object.ID
  default:
   restTriples = append(restTriples, triple)
  }
 }
 lic.SimpleLicensingInfo, err = parser.getSimpleLicensingInfoFromTriples(restTriples)
 if err != nil {
  return lic, fmt.Errorf("error setting simple licensing information of extracted licensing info: %s", err)
 }
 return lic, nil
}

func (parser *rdfParser2_2) extractedLicenseToOtherLicense(extLicense
 ExtractedLicensingInfo) (othLic v2_2.OtherLicense) {
 othLic.LicenseIdentifier = extLicense.licenseID
 othLic.ExtractedText = extLicense.extractedText
 othLic.LicenseComment = extLicense.comment
 othLic.LicenseCrossReferences = extLicense.seeAlso
 othLic.LicenseName = extLicense.name
 return othLic
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later
package reader

import (
 "testing"
```

```
 spdx "github.com/spdx/tools-golang/spdx/v2/v2_3"
)

// ===== Parser other license section state change tests =====
func TestParserOLStartsNewOtherLicenseAfterParsingLicenseIDTag(t *testing.T) {
 // create the first other license
 olid1 := "LicenseRef-Lic11"
 olname1 := "License 11"

 parser := tvParser{
  doc:  &spdx.Document{Packages: []*spdx.Package{}},
  st:   psOtherLicense,
  pkg:  &spdx.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*spdx.File{}},
  file: &spdx.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
  otherLic: &spdx.OtherLicense{
   LicenseIdentifier: olid1,
   LicenseName:       olname1,
  },
 }
 olic1 := parser.otherLic
 parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
 parser.pkg.Files = append(parser.pkg.Files, parser.file)
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

 // the Document's OtherLicenses
 should have this one only
 if parser.doc.OtherLicenses[0] != olic1 {
  t.Errorf("Expected other license %v in OtherLicenses[0], got %v", olic1, parser.doc.OtherLicenses[0])
 }
 if parser.doc.OtherLicenses[0].LicenseName != olname1 {
  t.Errorf("expected other license name %s in OtherLicenses[0], got %s", olname1,
parser.doc.OtherLicenses[0].LicenseName)
 }

 // now add a new other license
 olid2 := "LicenseRef-22"
 olname2 := "License 22"
 err := parser.parsePair("LicenseID", olid2)
 if err != nil {
  t.Errorf("got error when calling parsePair: %v", err)
 }
 // state should be correct
 if parser.st != psOtherLicense {
  t.Errorf("expected state to be %v, got %v", psOtherLicense, parser.st)
 }
 // and an other license should be created
 if parser.otherLic == nil {
```

```
 t.Fatalf("parser didn't create new other license")
 }
 // also parse the new license's name
 err = parser.parsePair("LicenseName", olname2)
 if err != nil {
  t.Errorf("got error when calling parsePair: %v", err)
 }
 // state
 should still be correct
 if parser.st != psOtherLicense {
  t.Errorf("expected state to be %v, got %v", psOtherLicense, parser.st)
 }
 // and the other license name should be as expected
 if parser.otherLic.LicenseName != olname2 {
  t.Errorf("expected other license name %s, got %s", olname2, parser.otherLic.LicenseName)
 }
 // and the Document's Other Licenses should be of size 2 and have these two
 if len(parser.doc.OtherLicenses) != 2 {
  t.Fatalf("Expected OtherLicenses to have len 2, got %d", len(parser.doc.OtherLicenses))
 }
 if parser.doc.OtherLicenses[0] != olic1 {
  t.Errorf("Expected other license %v in OtherLicenses[0], got %v", olic1, parser.doc.OtherLicenses[0])
 }
 if parser.doc.OtherLicenses[0].LicenseIdentifier != olid1 {
  t.Errorf("expected other license ID %s in OtherLicenses[0], got %s", olid1,
parser.doc.OtherLicenses[0].LicenseIdentifier)
 }
 if parser.doc.OtherLicenses[0].LicenseName != olname1 {
  t.Errorf("expected other license name %s in OtherLicenses[0],
 got %s", olname1, parser.doc.OtherLicenses[0].LicenseName)
 }
 if parser.doc.OtherLicenses[1] != parser.otherLic {
  t.Errorf("Expected other license %v in OtherLicenses[1], got %v", parser.otherLic, parser.doc.OtherLicenses[1])
 }
 if parser.doc.OtherLicenses[1].LicenseIdentifier != olid2 {
  t.Errorf("expected other license ID %s in OtherLicenses[1], got %s", olid2,
parser.doc.OtherLicenses[1].LicenseIdentifier)
 }
 if parser.doc.OtherLicenses[1].LicenseName != olname2 {
  t.Errorf("expected other license name %s in OtherLicenses[1], got %s", olname2,
parser.doc.OtherLicenses[1].LicenseName)
 }
}

func TestParserOLMovesToReviewAfterParsingReviewerTag(t *testing.T) {
 parser := tvParser{
  doc:  &spdx.Document{Packages: []*spdx.Package{}},
  st:   psOtherLicense,
```

```
 pkg:  &spdx.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*spdx.File{}},
 file: &spdx.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
}
parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
parser.pkg.Files
= append(parser.pkg.Files, parser.file)
parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

err := parser.parsePair("Reviewer", "Person: John Doe")
if err != nil {
 t.Errorf("got error when calling parsePair: %v", err)
}
if parser.st != psReview {
 t.Errorf("expected state to be %v, got %v", psReview, parser.st)
}
}

func TestParserOtherLicenseStaysAfterParsingRelationshipTags(t *testing.T) {
parser := tvParser{
 doc:  &spdx.Document{Packages: []*spdx.Package{}},
 st:   psOtherLicense,
 pkg:  &spdx.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*spdx.File{}},
 file: &spdx.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
 otherLic: &spdx.OtherLicense{
  LicenseIdentifier: "LicenseRef-whatever",
  LicenseName:       "the whatever license",
 },
}
parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
parser.pkg.Files = append(parser.pkg.Files, parser.file)
parser.doc.OtherLicenses = append(parser.doc.OtherLicenses,
parser.otherLic)

err := parser.parsePair("Relationship", "SPDXRef-blah CONTAINS SPDXRef-blah-else")
if err != nil {
 t.Errorf("got error when calling parsePair: %v", err)
}
// state should remain unchanged
if parser.st != psOtherLicense {
 t.Errorf("expected state to be %v, got %v", psOtherLicense, parser.st)
}
// and the relationship should be in the Document's Relationships
if len(parser.doc.Relationships) != 1 {
 t.Fatalf("expected doc.Relationships to have len 1, got %d", len(parser.doc.Relationships))
}
deID := parser.doc.Relationships[0].RefA
if deID.DocumentRefID != "" || deID.ElementRefID != "blah" {
 t.Errorf("expected RefA to be %s, got %s", "blah", parser.doc.Relationships[0].RefA)
```

```
 }

 err = parser.parsePair("RelationshipComment", "blah")
 if err != nil {
  t.Errorf("got error when calling parsePair: %v", err)
 }
 // state should still remain unchanged
 if parser.st != psOtherLicense {
  t.Errorf("expected state to be %v, got %v",
 psOtherLicense, parser.st)
 }
}

func TestParserOtherLicenseStaysAfterParsingAnnotationTags(t *testing.T) {
 parser := tvParser{
  doc:  &spdx.Document{Packages: []*spdx.Package{}},
  st:   psOtherLicense,
  pkg:  &spdx.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*spdx.File{}},
  file: &spdx.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
  otherLic: &spdx.OtherLicense{
   LicenseIdentifier: "LicenseRef-whatever",
   LicenseName:       "the whatever license",
  },
 }
 parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
 parser.pkg.Files = append(parser.pkg.Files, parser.file)
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

 err := parser.parsePair("Annotator", "Person: John Doe ()")
 if err != nil {
  t.Errorf("got error when calling parsePair: %v", err)
 }
 if parser.st != psOtherLicense {
  t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense)
 }

 err = parser.parsePair("AnnotationDate", "2018-09-15T00:36:00Z")
 if
 err != nil {
  t.Errorf("got error when calling parsePair: %v", err)
 }
 if parser.st != psOtherLicense {
  t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense)
 }

 err = parser.parsePair("AnnotationType", "REVIEW")
 if err != nil {
  t.Errorf("got error when calling parsePair: %v", err)
```

```
 }
 if parser.st != psOtherLicense {
  t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense)
 }

 err = parser.parsePair("SPDXREF", "SPDXRef-45")
 if err != nil {
  t.Errorf("got error when calling parsePair: %v", err)
 }
 if parser.st != psOtherLicense {
  t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense)
 }

 err = parser.parsePair("AnnotationComment", "i guess i had something to say about this particular file")
 if err != nil {
  t.Errorf("got error when calling parsePair: %v", err)
 }
 if parser.st != psOtherLicense {
  t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense)
 }

 // and the annotation
 should be in the Document's Annotations
 if len(parser.doc.Annotations) != 1 {
  t.Fatalf("expected doc.Annotations to have len 1, got %d", len(parser.doc.Annotations))
 }
 if parser.doc.Annotations[0].Annotator.Annotator != "John Doe ()" {
  t.Errorf("expected Annotator to be %s, got %s", "John Doe ()", parser.doc.Annotations[0].Annotator)
 }
}

func TestParserOLFailsAfterParsingOtherSectionTags(t *testing.T) {
 parser := tvParser{
  doc:  &spdx.Document{Packages: []*spdx.Package{}},
  st:   psOtherLicense,
  pkg:  &spdx.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*spdx.File{}},
  file: &spdx.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
  otherLic: &spdx.OtherLicense{
   LicenseIdentifier: "LicenseRef-Lic11",
   LicenseName:       "License 11",
  },
 }
 parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
 parser.pkg.Files = append(parser.pkg.Files, parser.file)
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

 //
```

```
 can't go back to old sections
 err := parser.parsePair("SPDXVersion", spdx.Version)
 if err == nil {
  t.Errorf("expected error when calling parsePair, got nil")
 }
 err = parser.parsePair("PackageName", "whatever")
 if err == nil {
  t.Errorf("expected error when calling parsePair, got nil")
 }
 err = parser.parsePair("FileName", "whatever")
 if err == nil {
  t.Errorf("expected error when calling parsePair, got nil")
 }
}

// ===== Other License data section tests =====
func TestParserCanParseOtherLicenseTags(t *testing.T) {
 parser := tvParser{
  doc:  &spdx.Document{Packages: []*spdx.Package{}},
  st:   psOtherLicense,
  pkg:  &spdx.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*spdx.File{}},
  file: &spdx.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
 }
 parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
 parser.pkg.Files = append(parser.pkg.Files, parser.file)
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

 //
 License Identifier
 err := parser.parsePairFromOtherLicense("LicenseID", "LicenseRef-Lic11")
 if err != nil {
  t.Errorf("expected nil error, got %v", err)
 }
 if parser.otherLic.LicenseIdentifier != "LicenseRef-Lic11" {
  t.Errorf("got %v for LicenseID", parser.otherLic.LicenseIdentifier)
 }

 // Extracted Text
 err = parser.parsePairFromOtherLicense("ExtractedText", "You are permitted to do anything with the software,
hooray!")
 if err != nil {
  t.Errorf("expected nil error, got %v", err)
 }
 if parser.otherLic.ExtractedText != "You are permitted to do anything with the software, hooray!" {
  t.Errorf("got %v for ExtractedText", parser.otherLic.ExtractedText)
 }

 // License Name
```

```
err = parser.parsePairFromOtherLicense("LicenseName", "License 11")
if err != nil {
 t.Errorf("expected nil error, got %v", err)
}
if parser.otherLic.LicenseName != "License 11" {
 t.Errorf("got %v for LicenseName", parser.otherLic.LicenseName)
}

// License Cross Reference
crossRefs :=
[]string{
 "https://example.com/1",
 "https://example.com/2",
 "https://example.com/3",
}
for _, cr := range crossRefs {
 err = parser.parsePairFromOtherLicense("LicenseCrossReference", cr)
 if err != nil {
  t.Errorf("expected nil error, got %v", err)
 }
}
for _, refWant := range crossRefs {
 flagFound := false
 for _, refCheck := range parser.otherLic.LicenseCrossReferences {
  if refWant == refCheck {
   flagFound = true
  }
 }
 if flagFound == false {
  t.Errorf("didn't find %s in LicenseCrossReferences", refWant)
 }
}
if len(crossRefs) != len(parser.otherLic.LicenseCrossReferences) {
 t.Errorf("expected %d types in LicenseCrossReferences, got %d", len(crossRefs),
  len(parser.otherLic.LicenseCrossReferences))
}

// License Comment
err = parser.parsePairFromOtherLicense("LicenseComment", "this is a comment")
if err != nil {
 t.Errorf("expected nil error, got %v", err)
}
if parser.otherLic.LicenseComment != "this is a comment" {
 t.Errorf("got %v for
LicenseComment", parser.otherLic.LicenseComment)
 }
}
```

```
func TestParserOLUnknownTagFails(t *testing.T) {
 parser := tvParser{
  doc:  &spdx.Document{Packages: []*spdx.Package{}},
  st:   psOtherLicense,
  pkg:  &spdx.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*spdx.File{}},
  file: &spdx.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
 }
 parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
 parser.pkg.Files = append(parser.pkg.Files, parser.file)
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

 err := parser.parsePairFromOtherLicense("blah", "something")
 if err == nil {
  t.Errorf("expected error from parsing unknown tag")
 }
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later
package reader

import (
 "testing"

 "github.com/spdx/tools-golang/spdx/v2/v2_1"
)

// ===== Parser other license section state change tests =====
func TestParserOLStartsNewOtherLicenseAfterParsingLicenseIDTag(t *testing.T) {
 // create the first other license
 olid1 := "LicenseRef-Lic11"
 olname1 := "License 11"

 parser := tvParser{
  doc:  &v2_1.Document{Packages: []*v2_1.Package{}},
  st:   psOtherLicense,
  pkg:  &v2_1.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_1.File{}},
  file: &v2_1.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
  otherLic: &v2_1.OtherLicense{
   LicenseIdentifier: olid1,
   LicenseName:       olname1,
  },
 }
 olic1 := parser.otherLic
 parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
 parser.pkg.Files = append(parser.pkg.Files, parser.file)
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

 // the Document's OtherLicenses should
```

```
 have this one only
 if parser.doc.OtherLicenses[0] != olic1 {
  t.Errorf("Expected other license %v in OtherLicenses[0], got %v", olic1, parser.doc.OtherLicenses[0])
 }
 if parser.doc.OtherLicenses[0].LicenseName != olname1 {
  t.Errorf("expected other license name %s in OtherLicenses[0], got %s", olname1,
parser.doc.OtherLicenses[0].LicenseName)
 }

 // now add a new other license
 olid2 := "LicenseRef-22"
 olname2 := "License 22"
 err := parser.parsePair("LicenseID", olid2)
 if err != nil {
  t.Errorf("got error when calling parsePair: %v", err)
 }
 // state should be correct
 if parser.st != psOtherLicense {
  t.Errorf("expected state to be %v, got %v", psOtherLicense, parser.st)
 }
 // and an other license should be created
 if parser.otherLic == nil {
  t.Fatalf("parser didn't create new other license")
 }
 // also parse the new license's name
 err = parser.parsePair("LicenseName", olname2)
 if err != nil {
  t.Errorf("got error when calling parsePair: %v", err)
 }
 // state should
 still be correct
 if parser.st != psOtherLicense {
  t.Errorf("expected state to be %v, got %v", psOtherLicense, parser.st)
 }
 // and the other license name should be as expected
 if parser.otherLic.LicenseName != olname2 {
  t.Errorf("expected other license name %s, got %s", olname2, parser.otherLic.LicenseName)
 }
 // and the Document's Other Licenses should be of size 2 and have these two
 if len(parser.doc.OtherLicenses) != 2 {
  t.Fatalf("Expected OtherLicenses to have len 2, got %d", len(parser.doc.OtherLicenses))
 }
 if parser.doc.OtherLicenses[0] != olic1 {
  t.Errorf("Expected other license %v in OtherLicenses[0], got %v", olic1, parser.doc.OtherLicenses[0])
 }
 if parser.doc.OtherLicenses[0].LicenseIdentifier != olid1 {
  t.Errorf("expected other license ID %s in OtherLicenses[0], got %s", olid1,
parser.doc.OtherLicenses[0].LicenseIdentifier)
```

```
 }
 if parser.doc.OtherLicenses[0].LicenseName != olname1 {
  t.Errorf("expected other license name %s in OtherLicenses[0], got %s",
 olname1, parser.doc.OtherLicenses[0].LicenseName)
 }
 if parser.doc.OtherLicenses[1] != parser.otherLic {
  t.Errorf("Expected other license %v in OtherLicenses[1], got %v", parser.otherLic, parser.doc.OtherLicenses[1])
 }
 if parser.doc.OtherLicenses[1].LicenseIdentifier != olid2 {
  t.Errorf("expected other license ID %s in OtherLicenses[1], got %s", olid2,
parser.doc.OtherLicenses[1].LicenseIdentifier)
 }
 if parser.doc.OtherLicenses[1].LicenseName != olname2 {
  t.Errorf("expected other license name %s in OtherLicenses[1], got %s", olname2,
parser.doc.OtherLicenses[1].LicenseName)
 }
}

func TestParserOLMovesToReviewAfterParsingReviewerTag(t *testing.T) {
 parser := tvParser{
  doc:  &v2_1.Document{Packages: []*v2_1.Package{}},
  st:   psOtherLicense,
  pkg:  &v2_1.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_1.File{}},
  file: &v2_1.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
 }
 parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
 parser.pkg.Files
 = append(parser.pkg.Files, parser.file)
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

 err := parser.parsePair("Reviewer", "Person: John Doe")
 if err != nil {
  t.Errorf("got error when calling parsePair: %v", err)
 }
 if parser.st != psReview {
  t.Errorf("expected state to be %v, got %v", psReview, parser.st)
 }
}

func TestParserOtherLicenseStaysAfterParsingRelationshipTags(t *testing.T) {
 parser := tvParser{
  doc:  &v2_1.Document{Packages: []*v2_1.Package{}},
  st:   psOtherLicense,
  pkg:  &v2_1.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_1.File{}},
  file: &v2_1.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
  otherLic: &v2_1.OtherLicense{
   LicenseIdentifier: "LicenseRef-whatever",
   LicenseName:       "the whatever license",
```

```
 },
}
parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
parser.pkg.Files = append(parser.pkg.Files, parser.file)
parser.doc.OtherLicenses = append(parser.doc.OtherLicenses,
parser.otherLic)

err := parser.parsePair("Relationship", "SPDXRef-blah CONTAINS SPDXRef-blah-else")
if err != nil {
 t.Errorf("got error when calling parsePair: %v", err)
}
// state should remain unchanged
if parser.st != psOtherLicense {
 t.Errorf("expected state to be %v, got %v", psOtherLicense, parser.st)
}
// and the relationship should be in the Document's Relationships
if len(parser.doc.Relationships) != 1 {
 t.Fatalf("expected doc.Relationships to have len 1, got %d", len(parser.doc.Relationships))
}
deID := parser.doc.Relationships[0].RefA
if deID.DocumentRefID != "" || deID.ElementRefID != "blah" {
 t.Errorf("expected RefA to be %s, got %s", "blah", parser.doc.Relationships[0].RefA)
}

err = parser.parsePair("RelationshipComment", "blah")
if err != nil {
 t.Errorf("got error when calling parsePair: %v", err)
}
// state should still remain unchanged
if parser.st != psOtherLicense {
 t.Errorf("expected state to be %v, got %v", psOtherLicense,
parser.st)
}
}

func TestParserOtherLicenseStaysAfterParsingAnnotationTags(t *testing.T) {
parser := tvParser{
 doc:  &v2_1.Document{Packages: []*v2_1.Package{}},
 st:   psOtherLicense,
 pkg:  &v2_1.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_1.File{}},
 file: &v2_1.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
 otherLic: &v2_1.OtherLicense{
  LicenseIdentifier: "LicenseRef-whatever",
  LicenseName:       "the whatever license",
 },
}
parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
parser.pkg.Files = append(parser.pkg.Files, parser.file)
```

```
parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

err := parser.parsePair("Annotator", "Person: John Doe ()")
if err != nil {
 t.Errorf("got error when calling parsePair: %v", err)
}
if parser.st != psOtherLicense {
 t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense)
}

err = parser.parsePair("AnnotationDate", "2018-09-15T00:36:00Z")
if
err != nil {
 t.Errorf("got error when calling parsePair: %v", err)
}
if parser.st != psOtherLicense {
 t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense)
}

err = parser.parsePair("AnnotationType", "REVIEW")
if err != nil {
 t.Errorf("got error when calling parsePair: %v", err)
}
if parser.st != psOtherLicense {
 t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense)
}

err = parser.parsePair("SPDXREF", "SPDXRef-45")
if err != nil {
 t.Errorf("got error when calling parsePair: %v", err)
}
if parser.st != psOtherLicense {
 t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense)
}

err = parser.parsePair("AnnotationComment", "i guess i had something to say about this particular file")
if err != nil {
 t.Errorf("got error when calling parsePair: %v", err)
}
if parser.st != psOtherLicense {
 t.Errorf("parser is in state %v, expected %v", parser.st, psOtherLicense)
}

// and the annotation
should be in the Document's Annotations
if len(parser.doc.Annotations) != 1 {
 t.Fatalf("expected doc.Annotations to have len 1, got %d", len(parser.doc.Annotations))
}
```

```
 if parser.doc.Annotations[0].Annotator.Annotator != "John Doe ()" {
  t.Errorf("expected Annotator to be %s, got %s", "John Doe ()", parser.doc.Annotations[0].Annotator)
 }
}

func TestParserOLFailsAfterParsingOtherSectionTags(t *testing.T) {
 parser := tvParser{
  doc:  &v2_1.Document{Packages: []*v2_1.Package{}},
  st:   psOtherLicense,
  pkg:  &v2_1.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_1.File{}},
  file: &v2_1.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
  otherLic: &v2_1.OtherLicense{
   LicenseIdentifier: "LicenseRef-Lic11",
   LicenseName:       "License 11",
  },
 }
 parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
 parser.pkg.Files = append(parser.pkg.Files, parser.file)
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

 //
 can't go back to old sections
 err := parser.parsePair("SPDXVersion", "SPDX-2.1")
 if err == nil {
  t.Errorf("expected error when calling parsePair, got nil")
 }
 err = parser.parsePair("PackageName", "whatever")
 if err == nil {
  t.Errorf("expected error when calling parsePair, got nil")
 }
 err = parser.parsePair("FileName", "whatever")
 if err == nil {
  t.Errorf("expected error when calling parsePair, got nil")
 }
}

// ===== Other License data section tests =====
func TestParserCanParseOtherLicenseTags(t *testing.T) {
 parser := tvParser{
  doc:  &v2_1.Document{Packages: []*v2_1.Package{}},
  st:   psOtherLicense,
  pkg:  &v2_1.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_1.File{}},
  file: &v2_1.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
 }
 parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
 parser.pkg.Files = append(parser.pkg.Files, parser.file)
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)
```

```
//
License Identifier
err := parser.parsePairFromOtherLicense("LicenseID", "LicenseRef-Lic11")
if err != nil {
 t.Errorf("expected nil error, got %v", err)
}
if parser.otherLic.LicenseIdentifier != "LicenseRef-Lic11" {
 t.Errorf("got %v for LicenseID", parser.otherLic.LicenseIdentifier)
}

// Extracted Text
err = parser.parsePairFromOtherLicense("ExtractedText", "You are permitted to do anything with the software,
hooray!")
if err != nil {
 t.Errorf("expected nil error, got %v", err)
}
if parser.otherLic.ExtractedText != "You are permitted to do anything with the software, hooray!" {
 t.Errorf("got %v for ExtractedText", parser.otherLic.ExtractedText)
}

// License Name
err = parser.parsePairFromOtherLicense("LicenseName", "License 11")
if err != nil {
 t.Errorf("expected nil error, got %v", err)
}
if parser.otherLic.LicenseName != "License 11" {
 t.Errorf("got %v for LicenseName", parser.otherLic.LicenseName)
}

// License Cross Reference
crossRefs := []string{
 "https://example.com/1",
 "https://example.com/2",
 "https://example.com/3",
}
for
_, cr := range crossRefs {
 err = parser.parsePairFromOtherLicense("LicenseCrossReference", cr)
 if err != nil {
  t.Errorf("expected nil error, got %v", err)
 }
}
for _, refWant := range crossRefs {
 flagFound := false
 for _, refCheck := range parser.otherLic.LicenseCrossReferences {
  if refWant == refCheck {
   flagFound = true
  }
```

```
  }
  if flagFound == false {
   t.Errorf("didn't find %s in LicenseCrossReferences", refWant)
  }
 }
 if len(crossRefs) != len(parser.otherLic.LicenseCrossReferences) {
  t.Errorf("expected %d types in LicenseCrossReferences, got %d", len(crossRefs),
   len(parser.otherLic.LicenseCrossReferences))
 }

 // License Comment
 err = parser.parsePairFromOtherLicense("LicenseComment", "this is a comment")
 if err != nil {
  t.Errorf("expected nil error, got %v", err)
 }
 if parser.otherLic.LicenseComment != "this is a comment" {
  t.Errorf("got %v for LicenseComment",
 parser.otherLic.LicenseComment)
 }
}

func TestParserOLUnknownTagFails(t *testing.T) {
 parser := tvParser{
  doc:  &v2_1.Document{Packages: []*v2_1.Package{}},
  st:   psOtherLicense,
  pkg:  &v2_1.Package{PackageName: "test", PackageSPDXIdentifier: "test", Files: []*v2_1.File{}},
  file: &v2_1.File{FileName: "f1.txt", FileSPDXIdentifier: "f1"},
 }
 parser.doc.Packages = append(parser.doc.Packages, parser.pkg)
 parser.pkg.Files = append(parser.pkg.Files, parser.file)
 parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)

 err := parser.parsePairFromOtherLicense("blah", "something")
 if err == nil {
  t.Errorf("expected error from parsing unknown tag")
 }
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package writer

import (
 "fmt"
 "io"

 spdx "github.com/spdx/tools-golang/spdx/v2/v2_3"
)
```

```
func renderOtherLicense(ol *spdx.OtherLicense, w io.Writer) error {
 if ol.LicenseIdentifier != "" {
  fmt.Fprintf(w, "LicenseID: %s\n", ol.LicenseIdentifier)
 }
 if ol.ExtractedText != "" {
  fmt.Fprintf(w, "ExtractedText: %s\n", textify(ol.ExtractedText))
 }
 if ol.LicenseName != "" {
  fmt.Fprintf(w, "LicenseName: %s\n", ol.LicenseName)
 }
 for _, s := range ol.LicenseCrossReferences {
  fmt.Fprintf(w, "LicenseCrossReference: %s\n", s)
 }
 if ol.LicenseComment != "" {
  fmt.Fprintf(w, "LicenseComment: %s\n", textify(ol.LicenseComment))
 }

 fmt.Fprintf(w, "\n")

 return nil
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package reader

import (
 "fmt"

 "github.com/spdx/tools-golang/spdx/v2/v2_2"
)

func (parser *tvParser) parsePairFromOtherLicense(tag string, value string) error {
 switch tag {
 // tag for creating new other license section
 case "LicenseID":
  parser.otherLic = &v2_2.OtherLicense{}
  parser.doc.OtherLicenses = append(parser.doc.OtherLicenses, parser.otherLic)
  parser.otherLic.LicenseIdentifier = value
 case "ExtractedText":
  parser.otherLic.ExtractedText = value
 case "LicenseName":
  parser.otherLic.LicenseName = value
 case "LicenseCrossReference":
  parser.otherLic.LicenseCrossReferences = append(parser.otherLic.LicenseCrossReferences, value)
 case "LicenseComment":
  parser.otherLic.LicenseComment = value
 // for relationship tags, pass along but don't change state
 case "Relationship":
```

```
 parser.rln = &v2_2.Relationship{}
 parser.doc.Relationships = append(parser.doc.Relationships, parser.rln)
 return parser.parsePairForRelationship(tag,
value)
case "RelationshipComment":
 return parser.parsePairForRelationship(tag, value)
// for annotation tags, pass along but don't change state
case "Annotator":
 parser.ann = &v2_2.Annotation{}
 parser.doc.Annotations = append(parser.doc.Annotations, parser.ann)
 return parser.parsePairForAnnotation(tag, value)
case "AnnotationDate":
 return parser.parsePairForAnnotation(tag, value)
case "AnnotationType":
 return parser.parsePairForAnnotation(tag, value)
case "SPDXREF":
 return parser.parsePairForAnnotation(tag, value)
case "AnnotationComment":
 return parser.parsePairForAnnotation(tag, value)
// tag for going on to review section (DEPRECATED)
case "Reviewer":
 parser.st = psReview
 return parser.parsePairFromReview(tag, value)
default:
 return fmt.Errorf("received unknown tag %v in OtherLicense section", tag)
}

return nil
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

package reader

import (
 "reflect"
 "sort"
 "testing"

 gordfParser "github.com/spdx/gordf/rdfloader/parser"
)

func Test_rdfParser2_2_getAnyLicenseFromNode(t *testing.T) {
 // since this function is a mux, we just have to make sure that with each
 // type of input, it is able to redirect the request to an appropriate
 // license getter.

 // TestCase 1: input node is just a node string without any associated
 //      triple (either a NONE|NOASSERTION) because for other case,
```

```
//      the license should've been associated with other triples
parser, _ := parserFromBodyContent(``)
inputNode := &gordfParser.Node{
 NodeType: gordfParser.IRI,
 ID:       NS_SPDX + "NONE",
}
lic, err := parser.getAnyLicenseFromNode(inputNode)
if err != nil {
 t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return type is a SpecialLicense
switch lic.(type) {
case SpecialLicense:
default:
 t.Errorf("expected
license to be of type SpecialLicense, found %v", reflect.TypeOf(lic))
}

// TestCase 2: DisjunctiveLicenseSet:
parser, _ = parserFromBodyContent(`
 <spdx:DisjunctiveLicenseSet>
  <spdx:member rdf:resource="http://spdx.org/licenses/Nokia"/>
  <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
 </spdx:DisjunctiveLicenseSet>
`)
inputNode = parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if err != nil {
 t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return type is a DisjunctiveLicenseSet
switch lic.(type) {
case DisjunctiveLicenseSet:
default:
 t.Errorf("expected license to be of type DisjunctiveLicenseSet, found %v", reflect.TypeOf(lic))
}

// TestCase 3: ConjunctiveLicenseSet:
parser, _ = parserFromBodyContent(`
 <spdx:ConjunctiveLicenseSet>
  <spdx:member rdf:resource="http://spdx.org/licenses/Nokia"/>
  <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
 </spdx:ConjunctiveLicenseSet>
`)
inputNode
= parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if err != nil {
```

```
 t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return type is a ConjunctiveLicenseSet
switch lic.(type) {
case ConjunctiveLicenseSet:
default:
 t.Errorf("expected license to be of type ConjunctiveLicenseSet, found %v", reflect.TypeOf(lic))
}

// TestCase 4: ExtractedLicensingInfo
parser, _ = parserFromBodyContent(`
 <spdx:ExtractedLicensingInfo rdf:about="http://spdx.dev/spdx.rdf#LicenseRef-Freeware">
  <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
  <spdx:name>freeware</spdx:name>
  <spdx:extractedText><![CDATA[...]]></spdx:extractedText>
   </spdx:ExtractedLicensingInfo>
`)
inputNode = parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if err != nil {
 t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return
type is a ExtractedLicensingInfo
switch lic.(type) {
case ExtractedLicensingInfo:
default:
 t.Errorf("expected license to be of type ExtractedLicensingInfo, found %v", reflect.TypeOf(lic))
}

// TestCase 4: ExtractedLicensingInfo
parser, _ = parserFromBodyContent(`
 <spdx:ExtractedLicensingInfo rdf:about="http://spdx.dev/spdx.rdf#LicenseRef-Freeware">
  <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
  <spdx:name>freeware</spdx:name>
  <spdx:extractedText><![CDATA[...]]></spdx:extractedText>
   </spdx:ExtractedLicensingInfo>
`)
inputNode = parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if err != nil {
 t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return type is a ExtractedLicensingInfo
switch lic.(type) {
case ExtractedLicensingInfo:
default:
 t.Errorf("expected license to be of type ExtractedLicensingInfo, found %v", reflect.TypeOf(lic))
```

```
}

// TestCase 5: License
parser, _ = parserFromBodyContent(`
 <spdx:License
rdf:about="http://spdx.org/licenses/Apache-2.0">
  <spdx:standardLicenseTemplate>&lt;&gt; Apache License Version 2.0, January 2004
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```

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```
  <rdfs:seeAlso>http://www.apache.org/licenses/LICENSE-2.0</rdfs:seeAlso>
  <spdx:name>Apache License 2.0</spdx:name>
  <spdx:licenseId>Apache-2.0</spdx:licenseId>
  <spdx:isOsiApproved>true</spdx:isOsiApproved>
  <rdfs:seeAlso>http://www.opensource.org/licenses/Apache-2.0</rdfs:seeAlso>
  <spdx:licenseText>...</spdx:licenseText>
  <spdx:standardLicenseHeader>...</spdx:standardLicenseHeader>
  </spdx:License>
`)
inputNode = parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if
err != nil {
 t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return type is a License
switch lic.(type) {
case License:
default:
 t.Errorf("expected license to be of type License, found %v", reflect.TypeOf(lic))
}

// TestCase 5: WithExceptionOperator
parser, _ = parserFromBodyContent(`
 <spdx:WithExceptionOperator>
  <spdx:licenseException>
   <spdx:LicenseException rdf:nodeID="A1">
    <spdx:example></spdx:example>
    <spdx:licenseExceptionId>Libtool-exception</spdx:licenseExceptionId>
    <rdfs:comment></rdfs:comment>
   </spdx:LicenseException>
  </spdx:licenseException>
  <spdx:member rdf:resource="http://spdx.org/licenses/GPL-2.0-or-later"/>
 </spdx:WithExceptionOperator>
`)
inputNode = parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if err != nil {
 t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return type is a WithExceptionOperator
switch
```

```
lic.(type) {
case WithExceptionOperator:
default:
 t.Errorf("expected license to be of type WithExceptionOperator, found %v", reflect.TypeOf(lic))
}

// TestCase 6: OrLaterOperator
parser, _ = parserFromBodyContent(`
 <spdx:OrLaterOperator>
  <spdx:member>
   <spdx:SimpleLicensingInfo>
    <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
    <spdx:name>freeware</spdx:name>
   </spdx:SimpleLicensingInfo>
  </spdx:member>
 </spdx:OrLaterOperator>
`)
inputNode = parser.gordfParserObj.Triples[0].Subject
lic, err = parser.getAnyLicenseFromNode(inputNode)
if err != nil {
 t.Errorf("error parsing a valid license input: %v", err)
}
// checking if the return type is a OrLaterOperator
switch lic.(type) {
case OrLaterOperator:
default:
 t.Errorf("expected license to be of type OrLaterOperator, found %v", reflect.TypeOf(lic))
}

// TestCase 7: checking if an unknown license raises an error.
parser, _ = parserFromBodyContent(`
 <spdx:UnknownLicense>
  <spdx:unknownTag
/>
 </spdx:UnknownLicense>
`)
node := parser.gordfParserObj.Triples[0].Subject
_, err = parser.getAnyLicenseFromNode(node)
t.Log(err)
if err == nil {
 t.Errorf("should've raised an error for invalid input")
}

// TestCase 8: cyclic dependent license must raise an error.
parser, _ = parserFromBodyContent(`
 <spdx:ConjunctiveLicenseSet rdf:about="#SPDXRef-RecursiveLicense">
  <spdx:member rdf:resource="http://spdx.org/licenses/GPL-2.0-or-later"/>
  <spdx:member>
```

```
    <spdx:ConjunctiveLicenseSet rdf:about="#SPDXRef-RecursiveLicense">
     <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
     <spdx:member rdf:resource="http://spdx.org/spdxdocs/spdx-example-444504E0-4F89-41D3-9A0C-
0305E82C3301#SPDXRef-RecursiveLicense"/>
    </spdx:ConjunctiveLicenseSet>
   </spdx:member>
  </spdx:ConjunctiveLicenseSet>
 `)
 node = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getAnyLicenseFromNode(node)
 if err == nil {
  t.Errorf("expected an error due to cyclic
 dependent license. found %v", err)
 }
}

func Test_rdfParser2_2_getConjunctiveLicenseSetFromNode(t *testing.T) {
 var parser *rdfParser2_2
 var err error
 var licenseNode *gordfParser.Node
 var license ConjunctiveLicenseSet

 // TestCase 1: invalid license member
 parser, _ = parserFromBodyContent(`
  <spdx:ConjunctiveLicenseSet>
   <spdx:member rdf:resource="http://spdx.org/licenses/Unknown"/>
   <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
  </spdx:ConjunctiveLicenseSet>
 `)
 licenseNode = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getConjunctiveLicenseSetFromNode(licenseNode)
 if err == nil {
  t.Errorf("expected an error saying invalid license member, found <nil>")
 }

 // TestCase 2: invalid predicate in the licenseSet.
 parser, _ = parserFromBodyContent(`
  <spdx:ConjunctiveLicenseSet>
   <spdx:member rdf:resource="http://spdx.org/licenses/CC0-1.0"/>
   <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
   <spdx:unknownTag />
  </spdx:ConjunctiveLicenseSet>
 `)
 licenseNode
 = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getConjunctiveLicenseSetFromNode(licenseNode)
 if err == nil {
  t.Errorf("expected an error saying invalid predicate found")
```

```
 }

 // TestCase 3: valid example.
 parser, _ = parserFromBodyContent(`
  <spdx:ConjunctiveLicenseSet>
   <spdx:member rdf:resource="http://spdx.org/licenses/Nokia"/>
   <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
  </spdx:ConjunctiveLicenseSet>
 `)
 licenseNode = parser.gordfParserObj.Triples[0].Subject
 license, err = parser.getConjunctiveLicenseSetFromNode(licenseNode)
 if err != nil {
  t.Errorf("unexpected error parsing licenseSet: %v", err)
 }
 nMembers := len(license.members)
 if nMembers != 2 {
  t.Errorf("expected licenseSet to have 2 members, found %d", nMembers)
 }
 licenseMembers := mapLicensesToStrings(license.members)
 expectedLicenseMembers := []string{"LGPL-2.0", "Nokia"}
 sort.Strings(licenseMembers)
 if !reflect.DeepEqual(licenseMembers,
 expectedLicenseMembers) {
  t.Errorf("expected %v, found %v", expectedLicenseMembers, licenseMembers)
 }
}

func Test_rdfParser2_2_getDisjunctiveLicenseSetFromNode(t *testing.T) {
 var parser *rdfParser2_2
 var err error
 var licenseNode *gordfParser.Node
 var license DisjunctiveLicenseSet

 // TestCase 1: invalid license member
 parser, _ = parserFromBodyContent(`
  <spdx:DisjunctiveLicenseSet>
   <spdx:member rdf:resource="http://spdx.org/licenses/Unknown"/>
   <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
  </spdx:DisjunctiveLicenseSet>
 `)
 licenseNode = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getDisjunctiveLicenseSetFromNode(licenseNode)
 if err == nil {
  t.Errorf("expected an error saying invalid license member, found <nil>")
 }

 // TestCase 2: invalid predicate in the licenseSet.
 parser, _ = parserFromBodyContent(`
```

```
 <spdx:DisjunctiveLicenseSet>
  <spdx:member rdf:resource="http://spdx.org/licenses/Unknown"/>
  <spdx:member
rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
  <spdx:unknownTag />
 </spdx:DisjunctiveLicenseSet>
`)
licenseNode = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getDisjunctiveLicenseSetFromNode(licenseNode)
if err == nil {
 t.Errorf("expected an error saying invalid predicate found")
}

// TestCase 3: valid example.
parser, _ = parserFromBodyContent(`
 <spdx:DisjunctiveLicenseSet>
  <spdx:member rdf:resource="http://spdx.org/licenses/Nokia"/>
  <spdx:member rdf:resource="http://spdx.org/licenses/LGPL-2.0"/>
 </spdx:DisjunctiveLicenseSet>
`)
licenseNode = parser.gordfParserObj.Triples[0].Subject
license, err = parser.getDisjunctiveLicenseSetFromNode(licenseNode)
if err != nil {
 t.Errorf("unexpected error parsing licenseSet: %v", err)
}
nMembers := len(license.members)
if nMembers != 2 {
 t.Errorf("expected licenseSet to have 2 members, found %d", nMembers)
}
licenseMembers := mapLicensesToStrings(license.members)
expectedLicenseMembers := []string{"LGPL-2.0",
"Nokia"}
sort.Strings(licenseMembers)
if !reflect.DeepEqual(licenseMembers, expectedLicenseMembers) {
 t.Errorf("expected %v, found %v", expectedLicenseMembers, licenseMembers)
}
}

func Test_rdfParser2_2_getLicenseExceptionFromNode(t *testing.T) {
 var licenseException LicenseException
 var err error
 var node *gordfParser.Node
 var parser *rdfParser2_2

 // TestCase 1: invalid value for rdf:seeAlso
 parser, _ = parserFromBodyContent(`
  <spdx:LicenseException>
   <rdfs:seeAlso>see-also</rdfs:seeAlso>
```

```
  <spdx:example></spdx:example>
  <spdx:licenseExceptionId>Libtool-exception</spdx:licenseExceptionId>
  <rdfs:comment></rdfs:comment>
 </spdx:LicenseException>
`)
node = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getLicenseExceptionFromNode(node)
if err == nil {
 t.Errorf("should've raised an error due to invalid uri for rdfs:seeAlso")
}

// TestCase 2: invalid predicate for licenseException
// TestCase 1: invalid value for rdf:seeAlso
parser,
_ = parserFromBodyContent(`
 <spdx:LicenseException>
  <spdx:example></spdx:example>
  <spdx:licenseExceptionId>Libtool-exception</spdx:licenseExceptionId>
  <rdfs:unknown></rdfs:unknown>
 </spdx:LicenseException>
`)
node = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getLicenseExceptionFromNode(node)
if err == nil {
 t.Errorf("should've raised an error due to invalid predicate")
}

// TestCase 3: everything valid
// TestCase 1: invalid value for rdf:seeAlso
parser, _ = parserFromBodyContent(`
 <spdx:LicenseException>
  <rdfs:seeAlso rdf:resource="http://www.opensource.org/licenses/GPL-3.0"/>
  <spdx:example>no example</spdx:example>
  <spdx:licenseExceptionId>Libtool-exception</spdx:licenseExceptionId>
  <rdfs:comment>no comments</rdfs:comment>
  <spdx:licenseExceptionText>text</spdx:licenseExceptionText>
  <spdx:name>name</spdx:name>
 </spdx:LicenseException>
`)
node = parser.gordfParserObj.Triples[0].Subject
licenseException, err = parser.getLicenseExceptionFromNode(node)
if
err != nil {
 t.Fatalf("unexpected error while parsing a valid licenseException")
}
expectedCrossReference := "http://www.opensource.org/licenses/GPL-3.0"
if licenseException.seeAlso != expectedCrossReference {
 t.Errorf("expected: %s, found: %s", expectedCrossReference, licenseException.seeAlso)
```

```
 }
 expectedExample := "no example"
 if licenseException.example != expectedExample {
  t.Errorf("expected: %s, got: %s", expectedExample, licenseException.example)
 }
 if licenseException.licenseExceptionId != "Libtool-exception" {
  t.Errorf("expected: %s, got: %s", "Libtool-exception", licenseException.licenseExceptionId)
 }
 if licenseException.comment != "no comments" {
  t.Errorf("expected: %s, got: %s", "no comments", licenseException.comment)
 }
 if licenseException.licenseExceptionText != "text" {
  t.Errorf("expected: '%s', got: '%s'", "text", licenseException.licenseExceptionText)
 }
 if licenseException.name != "name" {
  t.Errorf("expected:
 '%s', got: '%s'", "name", licenseException.name)
 }
}

func Test_rdfParser2_2_getLicenseFromNode(t *testing.T) {
 var parser *rdfParser2_2
 var node *gordfParser.Node
 var license License
 var err error

 // TestCase 1: isOsiApproved is not a valid boolean
 parser, _ = parserFromBodyContent(`
  <spdx:License>
   <spdx:isOsiApproved>no</spdx:isOsiApproved>
  </spdx:License>
 `)
 node = parser.gordfParserObj.Triples[0].Subject
 license, err = parser.getLicenseFromNode(node)
 if err == nil {
  t.Errorf("expected function to raise an error stating isOsiApproved should be a valid boolean type")
 }

 // TestCase 2: rdf:seeAlso not a valid uri must raise an error
 parser, _ = parserFromBodyContent(`
  <spdx:License>
   <rdfs:seeAlso>uri</rdfs:seeAlso>
  </spdx:License>
 `)
 node = parser.gordfParserObj.Triples[0].Subject
 license, err = parser.getLicenseFromNode(node)
 if err == nil {
  t.Errorf("expected function to raise an error stating invalid uri for rdfs:seeAlso")
```

```
}

// TestCase 3:
isDeprecatedLicenseId is not a valid boolean
parser, _ = parserFromBodyContent(`
 <spdx:License>
  <spdx:isDeprecatedLicenseId>yes</spdx:isDeprecatedLicenseId>
 </spdx:License>
`)
node = parser.gordfParserObj.Triples[0].Subject
license, err = parser.getLicenseFromNode(node)
if err == nil {
 t.Errorf("expected function to raise an error stating isDeprecatedLicenseId should be a valid boolean type")
}

// TestCase 4: isFsfLibre is not a valid boolean
parser, _ = parserFromBodyContent(`
 <spdx:License>
  <spdx:isFsfLibre>no</spdx:isFsfLibre>
 </spdx:License>
`)
node = parser.gordfParserObj.Triples[0].Subject
license, err = parser.getLicenseFromNode(node)
if err == nil {
 t.Errorf("expected function to raise an error stating isFsfLibre should be a valid boolean type")
}

// TestCase 5: invalid triple for License:
parser, _ = parserFromBodyContent(`
 <spdx:License>
  <spdx:unknown />
 </spdx:License>
`)
node = parser.gordfParserObj.Triples[0].Subject
license,
err = parser.getLicenseFromNode(node)
if err == nil {
 t.Errorf("invalid predicate should've raised an error, got <nil>")
}

// TestCase 5: everything valid:
parser, _ = parserFromBodyContent(`
 <spdx:License rdf:about="http://spdx.org/licenses/GPL-3.0-or-later">
  <rdfs:seeAlso>http://www.opensource.org/licenses/GPL-3.0</rdfs:seeAlso>
  <spdx:isOsiApproved>true</spdx:isOsiApproved>
  <spdx:licenseText>GNU GENERAL PUBLIC LICENSE Version 3, 29 June 2007</spdx:licenseText>
  <spdx:name>GNU General Public License v3.0 or later</spdx:name>
  <spdx:standardLicenseHeaderTemplate>...</spdx:standardLicenseHeaderTemplate>
```

```
  <spdx:licenseId>GPL-3.0-or-later</spdx:licenseId>
  <rdfs:comment>This license was released: 29 June 2007</rdfs:comment>
  <spdx:isFsfLibre>true</spdx:isFsfLibre>
  <spdx:standardLicenseHeader>...</spdx:standardLicenseHeader>
  <spdx:standardLicenseTemplate>....</spdx:standardLicenseTemplate>
 </spdx:License>
`)
node = parser.gordfParserObj.Triples[0].Subject
license,
err = parser.getLicenseFromNode(node)
if err != nil {
 t.Errorf("error parsing a valid input: %v", err)
}
expectedSeeAlso := "http://www.opensource.org/licenses/GPL-3.0"
if len(license.seeAlso) != 1 {
 t.Fatalf("expected seeAlso to have 1 element, got %d", len(license.seeAlso))
}
if license.seeAlso[len(license.seeAlso)-1] != expectedSeeAlso {
 t.Errorf("expected %s, got %s", expectedSeeAlso, license.seeAlso)
}
if license.isOsiApproved != true {
 t.Errorf("expected %t, got %t", true, license.isOsiApproved)
}
expectedLicenseText := "GNU GENERAL PUBLIC LICENSE Version 3, 29 June 2007"
if license.licenseText != expectedLicenseText {
 t.Errorf("expected %s, got %s", expectedSeeAlso, license.licenseText)
}
expectedName := "GNU General Public License v3.0 or later"
if license.name != expectedName {
 t.Errorf("expected %s, got %s", expectedName, license.name)
}
expectedstdLicHeader := "..."
if license.standardLicenseHeader != expectedstdLicHeader {
 t.Errorf("expected
%s, got %s", expectedstdLicHeader, license.standardLicenseHeader)
}
expectedLicenseId := "GPL-3.0-or-later"
if expectedLicenseId != license.licenseID {
 t.Errorf("expected %s, got %s", expectedLicenseId, license.licenseID)
}
expectedLicenseComment := "This license was released: 29 June 2007"
if expectedLicenseComment != license.comment {
 t.Errorf("expected %s, got %s", expectedLicenseComment, license.comment)
}
expectedstdLicTemplate := "..."
if license.standardLicenseHeader != expectedstdLicTemplate {
 t.Errorf("expected %s, got %s", expectedstdLicTemplate, license.standardLicenseTemplate)
}
```

```
 expectedstdLicHeaderTemplate := "..."
 if license.standardLicenseHeaderTemplate != expectedstdLicHeaderTemplate {
  t.Errorf("expected %s, got %s", expectedstdLicHeaderTemplate, license.standardLicenseHeaderTemplate)
 }
 if license.isFsfLibre != true {
  t.Errorf("expected %t, got %t", true, license.isFsfLibre)
 }
}

func Test_rdfParser2_2_getOrLaterOperatorFromNode(t *testing.T)
 {
 var parser *rdfParser2_2
 var node *gordfParser.Node
 var err error

 // TestCase 1: more than one member in the OrLaterOperator tag must raise an error
 parser, _ = parserFromBodyContent(`
  <spdx:OrLaterOperator>
   <spdx:member>
    <spdx:SimpleLicensingInfo>
     <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
     <spdx:name>freeware</spdx:name>
    </spdx:SimpleLicensingInfo>
   </spdx:member>
   <spdx:member rdf:resource="http://spdx.org/licenses/Nokia"/>
  </spdx:OrLaterOperator>
 `)
 node = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getOrLaterOperatorFromNode(node)
 if err == nil {
  t.Error("expected an error due to more than one members, got <nil>")
 }

 // TestCase 2: Invalid predicate must raise an error
 parser, _ = parserFromBodyContent(`
  <spdx:OrLaterOperator>
   <spdx:members>
    <spdx:SimpleLicensingInfo>
     <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
     <spdx:name>freeware</spdx:name>
    </spdx:SimpleLicensingInfo>
   </spdx:members>
  </spdx:OrLaterOperator>
 `)
 node
 = parser.gordfParserObj.Triples[0].Subject
 _, err = parser.getOrLaterOperatorFromNode(node)
 if err == nil {
```

```
 t.Error("expected an error due to invalid predicate, got <nil>")
}

// TestCase 5: invalid member
parser, _ = parserFromBodyContent(`
 <spdx:OrLaterOperator>
  <spdx:member>
   <spdx:SimpleLicensingInfo>
    <spdx:invalidTag />
    <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
    <spdx:name>freeware</spdx:name>
   </spdx:SimpleLicensingInfo>
  </spdx:member>
 </spdx:OrLaterOperator>
`)
node = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getOrLaterOperatorFromNode(node)
if err == nil {
 t.Errorf("expected an error parsing invalid license member, got %v", err)
}

// TestCase 4: valid input
parser, _ = parserFromBodyContent(`
 <spdx:OrLaterOperator>
  <spdx:member>
   <spdx:SimpleLicensingInfo>
    <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
    <spdx:name>freeware</spdx:name>
   </spdx:SimpleLicensingInfo>
  </spdx:member>
 </spdx:OrLaterOperator>
`)
node
= parser.gordfParserObj.Triples[0].Subject
_, err = parser.getOrLaterOperatorFromNode(node)
if err != nil {
 t.Errorf("unexpected error parsing a valid input: %v", err)
}
}

func Test_rdfParser2_2_getSimpleLicensingInfoFromNode(t *testing.T) {
 // nothing to test. The just provides an interface to call function that
 // uses triples to render a SimpleLicensingInfo.
 parser, _ := parserFromBodyContent(`
  <spdx:SimpleLicensingInfo>
   <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
   <spdx:name>freeware</spdx:name>
  </spdx:SimpleLicensingInfo>
```

```
 `)
 node := parser.gordfParserObj.Triples[0].Subject
 _, err := parser.getSimpleLicensingInfoFromNode(node)
 if err != nil {
  t.Errorf("error parsing a valid input: %v", err)
 }
}

func Test_rdfParser2_2_getSimpleLicensingInfoFromTriples(t *testing.T) {
 var parser *rdfParser2_2
 var err error
 var license SimpleLicensingInfo

 // TestCase 1: invalid
 rdf:seeAlso attribute
 parser, _ = parserFromBodyContent(`
  <spdx:SimpleLicensingInfo>
   <rdfs:seeAlso>an invalid uri</rdfs:seeAlso>
  </spdx:SimpleLicensingInfo>
   `)
 _, err = parser.getSimpleLicensingInfoFromTriples(parser.gordfParserObj.Triples)
 if err == nil {
  t.Error("expected an error reporting invalid uri for rdf:seeAlso, got <nil>")
 }

 // TestCase 2: invalid predicate must raise an error
 parser, _ = parserFromBodyContent(`
  <spdx:SimpleLicensingInfo>
   <rdfs:invalidPredicate />
  </spdx:SimpleLicensingInfo>
   `)
 _, err = parser.getSimpleLicensingInfoFromTriples(parser.gordfParserObj.Triples)
 if err == nil {
  t.Error("expected an error reporting invalid predicate, got <nil>")
 }

 // TestCase 3: valid example
 parser, _ = parserFromBodyContent(`
  <spdx:SimpleLicensingInfo>
   <rdfs:comment>comment</rdfs:comment>
   <spdx:licenseId>lid</spdx:licenseId>
   <spdx:name>name</spdx:name>
   <rdfs:seeAlso>https://opensource.org/licenses/MPL-1.0</rdfs:seeAlso>
   <spdx:example>example</spdx:example>
  </spdx:SimpleLicensingInfo>
    `)
 license, err = parser.getSimpleLicensingInfoFromTriples(parser.gordfParserObj.Triples)
 if err != nil {
```

```
 t.Fatalf("unexpected error: %v", err)
 }
 expectedComment := "comment"
 expectedLicenseId := "lid"
 expectedName := "name"
 expectedSeeAlso := "https://opensource.org/licenses/MPL-1.0"
 expectedExample := "example"
 if expectedComment != license.comment {
  t.Errorf("expected %v, got %v", expectedComment, license.comment)
 }
 if expectedLicenseId != license.licenseID {
  t.Errorf("expected %v, got %v", expectedLicenseId, license.licenseID)
 }
 if expectedName != license.name {
  t.Errorf("expected %v, got %v", expectedName, license.name)
 }
 if len(license.seeAlso) != 1 {
  t.Fatalf("expected seeAlso to have 1 element, found %d", len(license.seeAlso))
 }
 if license.seeAlso[0] != expectedSeeAlso {
  t.Errorf("expected %v, got %v", expectedSeeAlso, license.seeAlso[0])
 }
 if license.example != expectedExample
 {
  t.Errorf("expected %v, got %v", expectedExample, license.example)
 }
}

func Test_rdfParser2_2_getSpecialLicenseFromNode(t *testing.T) {
 var parser *rdfParser2_2
 var node *gordfParser.Node
 var license SpecialLicense

 // TestCase 1: NONE
 parser, _ = parserFromBodyContent(``)
 node = &gordfParser.Node{
  NodeType: gordfParser.IRI,
  ID:       NS_SPDX + "NONE",
 }
 license, err := parser.getSpecialLicenseFromNode(node)
 if err != nil {
  t.Errorf("error parsing a valid node: %v", err)
 }
 if license.value != "NONE" {
  t.Errorf("expected %s, got %s", "NONE", license.value)
 }

 // TestCase 2: NOASSERTION
```

```
 parser, _ = parserFromBodyContent(``)
 node = &gordfParser.Node{
  NodeType: gordfParser.IRI,
  ID:       NS_SPDX + "NOASSERTION",
 }
 license, err = parser.getSpecialLicenseFromNode(node)
 if err != nil {
  t.Errorf("error parsing a valid node: %v", err)
 }
 if license.value != "NOASSERTION" {
  t.Errorf("expected %s, got %s", "NOASSERTION", license.value)
 }

 // TestCase 4:
 undefined standard license
 parser, _ = parserFromBodyContent(``)
 node = &gordfParser.Node{
  NodeType: gordfParser.IRI,
  ID:       "https://opensource.org/licenses/unknown",
 }
 _, err = parser.getSpecialLicenseFromNode(node)
 if err == nil {
  t.Errorf("expected an error saying invalid license")
 }

 // TestCase 4: valid standard license
 parser, _ = parserFromBodyContent(``)
 node = &gordfParser.Node{
  NodeType: gordfParser.IRI,
  ID:       "https://opensource.org/licenses/MPL-1.0",
 }
 license, err = parser.getSpecialLicenseFromNode(node)
 if err != nil {
  t.Errorf("error parsing a valid node: %v", err)
 }
 if license.value != "MPL-1.0" {
  t.Errorf("expected %s, got %s", "MPL-1.0", license.value)
 }
}

func Test_rdfParser2_2_getWithExceptionOperatorFromNode(t *testing.T) {
 var parser *rdfParser2_2
 var node *gordfParser.Node
 var err error

 // TestCase 1: more than one member in the OrLaterOperator tag must raise an error
 parser, _ = parserFromBodyContent(`
  <spdx:WithExceptionOperator>
```

```
  <spdx:member>
   <spdx:SimpleLicensingInfo>
    <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
    <spdx:name>freeware</spdx:name>
   </spdx:SimpleLicensingInfo>
  </spdx:member>
  <spdx:member
rdf:resource="http://spdx.org/licenses/Nokia"/>
 </spdx:WithExceptionOperator>
`)
node = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getWithExceptionOperatorFromNode(node)
if err == nil {
 t.Error("expected an error due to more than one members, got <nil>")
}

// TestCase 2: Invalid predicate must raise an error
parser, _ = parserFromBodyContent(`
 <spdx:WithExceptionOperator>
  <spdx:members>
   <spdx:SimpleLicensingInfo>
    <spdx:licenseId>LicenseRef-Freeware</spdx:licenseId>
    <spdx:name>freeware</spdx:name>
   </spdx:SimpleLicensingInfo>
  </spdx:members>
 </spdx:WithExceptionOperator>
`)
node = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getWithExceptionOperatorFromNode(node)
if err == nil {
 t.Error("expected
an error due to invalid predicate, got <nil>")
}

// TestCase 3: Invalid member
parser, _ = parserFromBodyContent(`
 <spdx:WithExceptionOperator>
  <spdx:member>
   <spdx:License rdf:about="http://spdx.org/licenses/GPL-2.0-or-later">
    <spdx:unknownTag />
   </spdx:License>
  </spdx:member>
 </spdx:WithExceptionOperator>
`)
node = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getWithExceptionOperatorFromNode(node)
if err == nil {
 t.Error("expected an error due to error parsing a member, got <nil>")
```

```
}

// TestCase 4: Invalid licenseException
parser, _ = parserFromBodyContent(`
 <spdx:WithExceptionOperator>
  <spdx:member>
   <spdx:License rdf:about="http://spdx.org/licenses/GPL-2.0-or-later"/>
  </spdx:member>
  <spdx:licenseException>
   <spdx:LicenseException>
    <spdx:invalidTag />
    <spdx:example>example</spdx:example>
    <spdx:licenseExceptionId>Libtool-exception</spdx:licenseExceptionId>
    <rdfs:comment>comment</rdfs:comment>
   </spdx:LicenseException>
  </spdx:licenseException>
 </spdx:WithExceptionOperator>
`)
node
= parser.gordfParserObj.Triples[0].Subject
_, err = parser.getWithExceptionOperatorFromNode(node)
if err == nil {
 t.Error("expected an error due to invalid licenseException, got <nil>")
}

// TestCase 5: valid input
parser, _ = parserFromBodyContent(`
 <spdx:WithExceptionOperator>
  <spdx:member>
   <spdx:License rdf:about="http://spdx.org/licenses/GPL-2.0-or-later"/>
  </spdx:member>
  <spdx:licenseException>
   <spdx:LicenseException>
    <spdx:example>example</spdx:example>
    <spdx:licenseExceptionId>Libtool-exception</spdx:licenseExceptionId>
    <rdfs:comment>comment</rdfs:comment>
   </spdx:LicenseException>
  </spdx:licenseException>
 </spdx:WithExceptionOperator>
`)
node = parser.gordfParserObj.Triples[0].Subject
_, err = parser.getWithExceptionOperatorFromNode(node)
if err != nil {
 t.Errorf("error parsing a valid input: %v", err)
}
}
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later
```

```
package v2_1

// OtherLicense is an Other License Information section of an
// SPDX Document for version 2.1 of the spec.
type OtherLicense struct {
 // 6.1: License Identifier: "LicenseRef-[idstring]"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 6.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //              License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 6.3: License Name: single line of text or "NOASSERTION"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseName string `json:"name,omitempty"`

 // 6.4: License Cross Reference
 // Cardinality: conditional (optional, one or many) if license
 //              is not on SPDX License List
 LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

 // 6.5:
 License Comment
 // Cardinality: optional, one
 LicenseComment string `json:"comment,omitempty"`
}
```

1.1675 google.golang.org/genproto/googleapis/rpc 0.0.0-20230717213848-3f92550aa753

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1.1676 google-golang-org-genproto 0.0.0-20230717213848-3f92550aa753

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1.1677 google-golang-org-genproto-googleapis-api 0.0.0-20230717213848-3f92550aa753

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1.1681 russellhaering-goxmldsig 1.4.0

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1.1682 github.com/fzambia/eagle 0.1.0

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1.1683 github.com/cristalhq/jwt/v4 4.0.2

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1.1684 github.com/grafana/thema 0.0.0-20230712153715-375c1b45f3ed

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1.1685 github.com/cockroachdb/errors 1.9.1

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1.1691 googlecloudgo 0.110.4

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package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook
```

```
// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier:
 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
```

```
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  SetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  TestIamPermissions:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
 }
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest,
 ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}
```

```
// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy
 gets the access control policy for a resource. May be empty if no such policy or resource exists. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
```

party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like
 Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution
 This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions

```
}

// NewLicensesRESTClient creates a new licenses rest client.
//
//
 The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
```

```
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
//
 Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers
 := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
```

```
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if
e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

```
// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts
 = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }
```

```
 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource.
 May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party
partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers
 := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
```

```
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if
e != nil {
 return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
```

```
if req != nil && req.RequestId != nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v", "project",
url.QueryEscape(req.GetProject())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err !=
nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
```

```
 return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true,
 DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
  }
  if req != nil && req.MaxResults != nil {
   params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
  }
  if req != nil && req.OrderBy != nil {
   params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
```

```
 }
 if req != nil && req.PageToken != nil {
  params.Add("pageToken", fmt.Sprintf("%v",
req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return
err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
```

```
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial:
 true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
```

```
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path
 != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
 error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
```

```
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e
 := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }
```

```
  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
 items    []*computepb.License
 pageInfo *iterator.PageInfo
 nextFunc func() error

 // Response is the raw response for the current page.
 // It
 must be cast to the RPC response type.
 // Calling Next() or InternalFetch() updates this value.
 Response interface{}

 // InternalFetch is for use by the Google Cloud Libraries only.
 // It is not part of the stable interface of this package.
 //
 // InternalFetch returns results from a single call to the underlying RPC.
 // The number of results is no greater than pageSize.
 // If there are no more results, nextPageToken is empty and err is nil.
 InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
 return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
 var item *computepb.License
 if
 err := it.nextFunc(); err != nil {
  return item, err
 }
 item = it.items[0]
 it.items = it.items[1:]
```

```
 return item, nil
}

func (it *LicenseIterator) bufLen() int {
 return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
 b := it.items
 it.items = nil
 return b
}
```

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```
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
```

```
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()
```

```
 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
```

```
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
```

```
 _ = resp
 }
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range
 values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown
 in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
```

```
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
```

```
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
```

```
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
```

```
 Get              []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
 return &LicenseCodesCallOptions{
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google
 Compute Engine API.
type internalLicenseCodesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}
```

```
// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func
 (c *LicenseCodesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption)
 (*computepb.LicenseCode, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
```

```
 httpClient *http.Client

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions
}

//
 NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
```

```
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return
 a specified license code. License codes are mirrored across all projects that have permissions to read the License
Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
```

```
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by
 third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())
```

```
 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
```

}

1.1692 cel-go 0.16.0

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The common/types/pb/equal.go modification of proto.Equal logic
==========
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1.1698 apr-util 1.6.1-5ubuntu4.22.04.2

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1.1709 file 5.41-3ubuntu0.1

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1.1711 golang-genproto 0.0.0-20230822172742-b8732ec3820d

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1.1712 go-control-plane 0.11.2-0.20230725211550-11bfe846bcd4

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1.1713 google-golang-org-api 0.132.0

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1.1714 googlecloudgoiam 1.1.1

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package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook
```

```
// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier:
 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
```

```
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 SetIamPolicy: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 TestIamPermissions:
[]gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
}
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest,
 ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}
```

```
// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy
 gets the access control policy for a resource. May be empty if no such policy or resource exists. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
```

```
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like
 Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective
image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party
partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution
 This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}
```

```
// NewLicensesRESTClient creates a new licenses rest client.
//
//
 The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
```

```
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
//
 Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers
 := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
```

```
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if
e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
```

```
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts
 = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }
```

```
 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource.
 May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party
partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers
 := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers
```

```
 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if
e != nil {
 return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
```

```
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v", "project",
url.QueryEscape(req.GetProject())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err !=
nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
```

```
 }
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true,
 DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
  }
  if req != nil && req.MaxResults != nil {
   params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
  }
  if req != nil && req.OrderBy != nil {
   params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
  }
```

```
 if req != nil && req.PageToken != nil {
  params.Add("pageToken", fmt.Sprintf("%v",
req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return
err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
```

```
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial:
 true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
```

```
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path
 != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
 error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
```

```
 return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e
:= gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
```

```
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
 items    []*computepb.License
 pageInfo *iterator.PageInfo
 nextFunc func() error

 // Response is the raw response for the current page.
 // It
 must be cast to the RPC response type.
 // Calling Next() or InternalFetch() updates this value.
 Response interface{}

 // InternalFetch is for use by the Google Cloud Libraries only.
 // It is not part of the stable interface of this package.
 //
 // InternalFetch returns results from a single call to the underlying RPC.
 // The number of results is no greater than pageSize.
 // If there are no more results, nextPageToken is empty and err is nil.
 InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
 return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
 var item *computepb.License
 if
 err := it.nextFunc(); err != nil {
  return item, err
 }
 item = it.items[0]
 it.items = it.items[1:]
 return item, nil
```

```
}

func (it *LicenseIterator) bufLen() int {
 return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
 b := it.items
 it.items = nil
 return b
}
```

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"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()
```

```
 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
```

```
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
```

```
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
 }
```

```
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range
 values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown
 in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
```

```
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
```

```
 Get              []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
 return &LicenseCodesCallOptions{
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google
 Compute Engine API.
type internalLicenseCodesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}
```

```
// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func
 (c *LicenseCodesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption)
 (*computepb.LicenseCode, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
```

```
 httpClient *http.Client

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions
}

//
 NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
```

```
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return
 a specified license code. License codes are mirrored across all projects that have permissions to read the License
Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
```

```
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by
 third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())
```

```
 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
```

```
}
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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
```

```
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseCodeRequest{
 // TODO: Fill request
struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseCodeRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
}
resp,
err := c.TestIamPermissions(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

1.1715 openshift-api 0.0.0-20230720094506-afcbe27aec7c

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
}
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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(By Douglas Crockford <douglas@crockford.com>)

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```
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1.1719 klauspost-compress 1.16.7

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1.1721 github.com/perimeterx/marshmallow 1.1.5

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1.1722 kubernetes-component-base 0.28.1

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1.1723 kubernetes-api 0.28.1

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1.1724 gawk 5.1.0-1ubuntu0.1

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the

Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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1.1735 github.com/influxdata/influxdb-client-go/v2 2.12.3

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1.1736 go-proxy 0.0.0-20230731152917-f99041a5c027

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1.1737 check-error 1.0.3

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1.1738 get-func-name 2.0.2

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1.1739 afero 1.10.0

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1.1740 github.com/rubenv/sql-migrate 1.5.2

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1.1741 libiconv v1.17

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For the aclocal/ax_boost_base.m4 and contrib/fb303/aclocal/ax_boost_base.m4
components:

```
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For the lib/nodejs/lib/thrift/json_parse.js:

```
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  2015-05-02
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```

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*/
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*/

For lib/py/compat/win32/stdint.h

// ISO C9x compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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lib/erl/src/Makefile.am

Please see doc/otp-base-license.txt for the full terms of this license.

For the aclocal/ax_boost_base.m4 and contrib/fb303/aclocal/ax_boost_base.m4
components:

```
#   Copyright (c) 2007 Thomas Porschberg <thomas@randspringer.de>
#
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```

For the lib/nodejs/lib/thrift/json_parse.js:

```
/*
   json_parse.js
   2015-05-02
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*/
```

(By Douglas Crockford <douglas@crockford.com>)

For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
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*/
```

For lib/py/compat/win32/stdint.h

// ISO C9x compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
// Copyright (c) 2006-2008 Alexander Chemeris
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//
///

Codegen template
 in t_html_generator.h

* Bootstrap v2.0.3
*
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*
* Designed and built with all the love in the world @twitter by @mdo and @fat.

For t_cl_generator.cc

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```
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
```

```
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete             []gax.CallOption
 Get                []gax.CallOption
 GetIamPolicy       []gax.CallOption
 Insert             []gax.CallOption
 List               []gax.CallOption
 SetIamPolicy       []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier:
 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
```

```
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  SetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  TestIamPermissions:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
 }
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest,
 ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
```

```
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy
 gets the access control policy for a resource. May be empty if no such policy or resource exists. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
```

```
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like
 Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective
image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party
partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution
 This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient
```

```
 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
//
 The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}
```

```
//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
//
 Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
```

```
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

headers
:= buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if
e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
```

```
  },
 }
 return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts
 = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
```

```
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource.
 May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party
partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers
 := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
```

```
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if
e != nil {
 return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
```

```
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.RequestId != nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v", "project",
url.QueryEscape(req.GetProject())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err !=
nil {
  return err
```

```
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true,
 DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
  }
```

```
 if req != nil && req.MaxResults != nil {
  params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
 }
 if req != nil && req.OrderBy != nil {
  params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req != nil && req.PageToken != nil {
  params.Add("pageToken", fmt.Sprintf("%v",
req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return
err
  }
```

```
  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial:
 true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))
```

```
 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path
 != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
```

```
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
 error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e
 := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }
```

```
  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
 items    []*computepb.License
 pageInfo *iterator.PageInfo
 nextFunc func() error

 // Response is the raw response for the current page.
 // It
 must be cast to the RPC response type.
 // Calling Next() or InternalFetch() updates this value.
 Response interface{}

 // InternalFetch is for use by the Google Cloud Libraries only.
 // It is not part of the stable interface of this package.
 //
 // InternalFetch returns results from a single call to the underlying RPC.
 // The number of results is no greater than pageSize.
 // If there are no more results, nextPageToken is empty and err is nil.
 InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
 return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
 var item *computepb.License
 if
```

```
 err := it.nextFunc(); err != nil {
  return item, err
 }
 item = it.items[0]
 it.items = it.items[1:]
 return item, nil
}

func (it *LicenseIterator) bufLen() int {
 return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
 b := it.items
 it.items = nil
 return b
}
```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
```

```
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
```

```
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
```

```
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.InsertLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
}
op, err := c.Insert(ctx, req)
if err != nil {
 // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
 // TODO: Handle error.
}
}

func ExampleLicensesClient_List() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template
only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.ListLicensesRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
 resp, err := it.Next()
 if err == iterator.Done {
  break
 }
```

```
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range
 values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown
 in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()
```

```
 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
```

```
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
```

```
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
// Copyright 2023 Google LLC
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
)

var
```

```
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get               []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
 return &LicenseCodesCallOptions{
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google
 Compute Engine API.
type internalLicenseCodesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient
```

```
 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func
 (c *LicenseCodesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption)
 (*computepb.LicenseCode, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseCodesRESTClient struct {
```

```
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions
}

//
 NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
```

```
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return
 a specified license code. License codes are mirrored across all projects that have permissions to read the License
Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
```

```
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by
 third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
```

```
 return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
```

```
 if e != nil {
  return nil, e
 }
 return resp, nil
}
```

1.1751 github.com/oracle/oci-go-sdk/v65 65.41.1

1.1751.1 Available under license :

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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Java Management Service API
//
// API for the Java Management Service. Use this API to view, create, and manage Fleets.
//

package jms

import (
 "strings"
)

// LicenseTypeEnum Enum with underlying type: string
type LicenseTypeEnum string

// Set of constants representing the allowable values for LicenseTypeEnum
const (
 LicenseTypeOtn        LicenseTypeEnum = "OTN"
 LicenseTypeNftc       LicenseTypeEnum = "NFTC"
 LicenseTypeRestricted LicenseTypeEnum = "RESTRICTED"
)

var mappingLicenseTypeEnum = map[string]LicenseTypeEnum{
 "OTN":        LicenseTypeOtn,
 "NFTC":       LicenseTypeNftc,
 "RESTRICTED": LicenseTypeRestricted,
}

var
 mappingLicenseTypeEnumLowerCase = map[string]LicenseTypeEnum{
 "otn":        LicenseTypeOtn,
```

```
 "nftc":       LicenseTypeNftc,
 "restricted": LicenseTypeRestricted,
}

// GetLicenseTypeEnumValues Enumerates the set of values for LicenseTypeEnum
func GetLicenseTypeEnumValues() []LicenseTypeEnum {
 values := make([]LicenseTypeEnum, 0)
 for _, v := range mappingLicenseTypeEnum {
  values = append(values, v)
 }
 return values
}

// GetLicenseTypeEnumStringValues Enumerates the set of values in String for LicenseTypeEnum
func GetLicenseTypeEnumStringValues() []string {
 return []string{
  "OTN",
  "NFTC",
  "RESTRICTED",
 }
}

// GetMappingLicenseTypeEnum performs case Insensitive comparison on enum value and return the desired enum
func GetMappingLicenseTypeEnum(val string) (LicenseTypeEnum, bool) {
 enum, ok := mappingLicenseTypeEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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// Code generated. DO NOT EDIT.

// Oracle Cloud VMware Solution API
//
// Use the Oracle Cloud VMware API to create SDDCs and manage ESXi hosts and software.
// For more information, see Oracle Cloud VMware Solution
(https://docs.cloud.oracle.com/iaas/Content/VMware/Concepts/ocvsoverview.htm).
//

package ocvp

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)
```

```
// HcxLicenseSummary HCX on-premise license information summary.
type HcxLicenseSummary struct {

 // HCX on-premise license key value.
 ActivationKey *string `mandatory:"true" json:"activationKey"`

 // status of HCX on-premise license.
 Status HcxLicenseStatusEnum `mandatory:"true"
 json:"status"`

 // Name of the system that consumed the HCX on-premise license
 SystemName *string `mandatory:"false" json:"systemName"`
}

func (m HcxLicenseSummary) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m HcxLicenseSummary) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingHcxLicenseStatusEnum(string(m.Status)); !ok && m.Status != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for Status: %s. Supported values are: %s.",
m.Status, strings.Join(GetHcxLicenseStatusEnumStringValues(), ",")))
 }

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview
(https://docs.cloud.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager
```

```
import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// ProductLicenseConsumerCollection Collection of resources which have consumed licenses.
type ProductLicenseConsumerCollection struct {

 // Collection of product license consumers.
 Items []ProductLicenseConsumerSummary `mandatory:"true" json:"items"`
}

func (m ProductLicenseConsumerCollection)
 String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m ProductLicenseConsumerCollection) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// ListProductLicenseConsumersRequest wrapper for the ListProductLicenseConsumers operation
//
// # See also
//
```

```
// Click https://docs.cloud.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/ListProductLicenseConsumers.go.html to see an example of how to use
ListProductLicenseConsumersRequest.
type ListProductLicenseConsumersRequest struct {

 // Unique product license identifier.
 ProductLicenseId *string `mandatory:"true" contributesTo:"query" name:"productLicenseId"`

 // The compartment OCID (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/identifiers.htm)
 used for the license record, product license, and configuration.
 CompartmentId *string `mandatory:"true" contributesTo:"query" name:"compartmentId"`

 // The maximum number of items to return.
 Limit *int `mandatory:"false" contributesTo:"query" name:"limit"`

 // A token representing the position at which to start retrieving results. This must come from the `opc-next-page`
header field of a previous response.
 Page *string `mandatory:"false" contributesTo:"query" name:"page"`

 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Indicates if the given compartment is the root compartment.
 IsCompartmentIdInSubtree *bool `mandatory:"false" contributesTo:"query" name:"isCompartmentIdInSubtree"`

 // The sort order to use, whether `ASC`
 or `DESC`.
 SortOrder ListProductLicenseConsumersSortOrderEnum `mandatory:"false" contributesTo:"query"
name:"sortOrder" omitEmpty:"true"`

 // Specifies the attribute with which to sort the rules.
 // Default: `licenseUnitsRequired`
 // * **licenseUnitsRequired:** Sorts by licenseUnitsRequired of the Resource.
 SortBy ListProductLicenseConsumersSortByEnum `mandatory:"false" contributesTo:"query" name:"sortBy"
omitEmpty:"true"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request ListProductLicenseConsumersRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request ListProductLicenseConsumersRequest) HTTPRequest(method, path string, binaryRequestBody
```

```
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _,
 err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request ListProductLicenseConsumersRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool)
{

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request ListProductLicenseConsumersRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request ListProductLicenseConsumersRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingListProductLicenseConsumersSortOrderEnum(string(request.SortOrder));
 !ok && request.SortOrder != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for SortOrder: %s. Supported values are:
%s.", request.SortOrder, strings.Join(GetListProductLicenseConsumersSortOrderEnumStringValues(), ",")))
 }
 if _, ok := GetMappingListProductLicenseConsumersSortByEnum(string(request.SortBy)); !ok && request.SortBy
!= "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for SortBy: %s. Supported values are: %s.",
request.SortBy, strings.Join(GetListProductLicenseConsumersSortByEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// ListProductLicenseConsumersResponse wrapper for the ListProductLicenseConsumers operation
type ListProductLicenseConsumersResponse struct {
```

```
 // The underlying http response
 RawResponse *http.Response

 // A list of ProductLicenseConsumerCollection instances
 ProductLicenseConsumerCollection
 `presentIn:"body"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // For pagination of a list of items. When paging through a list, if this header appears in the response,
 // then a partial list might have been returned. Include this value as the `page` parameter for the
 // subsequent GET request to get the next batch of items.
 OpcNextPage *string `presentIn:"header" name:"opc-next-page"`
}

func (response ListProductLicenseConsumersResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response ListProductLicenseConsumersResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}

// ListProductLicenseConsumersSortOrderEnum Enum with underlying type: string
type ListProductLicenseConsumersSortOrderEnum string

// Set of
 constants representing the allowable values for ListProductLicenseConsumersSortOrderEnum
const (
 ListProductLicenseConsumersSortOrderAsc  ListProductLicenseConsumersSortOrderEnum = "ASC"
 ListProductLicenseConsumersSortOrderDesc ListProductLicenseConsumersSortOrderEnum = "DESC"
)

var mappingListProductLicenseConsumersSortOrderEnum =
map[string]ListProductLicenseConsumersSortOrderEnum{
 "ASC":  ListProductLicenseConsumersSortOrderAsc,
 "DESC": ListProductLicenseConsumersSortOrderDesc,
}

var mappingListProductLicenseConsumersSortOrderEnumLowerCase =
map[string]ListProductLicenseConsumersSortOrderEnum{
 "asc":  ListProductLicenseConsumersSortOrderAsc,
 "desc": ListProductLicenseConsumersSortOrderDesc,
}
```

```
// GetListProductLicenseConsumersSortOrderEnumValues Enumerates the set of values for
ListProductLicenseConsumersSortOrderEnum
func GetListProductLicenseConsumersSortOrderEnumValues() []ListProductLicenseConsumersSortOrderEnum {
 values := make([]ListProductLicenseConsumersSortOrderEnum,
 0)
 for _, v := range mappingListProductLicenseConsumersSortOrderEnum {
  values = append(values, v)
 }
 return values
}

// GetListProductLicenseConsumersSortOrderEnumStringValues Enumerates the set of values in String for
ListProductLicenseConsumersSortOrderEnum
func GetListProductLicenseConsumersSortOrderEnumStringValues() []string {
 return []string{
  "ASC",
  "DESC",
 }
}

// GetMappingListProductLicenseConsumersSortOrderEnum performs case Insensitive comparison on enum value
and return the desired enum
func GetMappingListProductLicenseConsumersSortOrderEnum(val string)
(ListProductLicenseConsumersSortOrderEnum, bool) {
 enum, ok := mappingListProductLicenseConsumersSortOrderEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}

// ListProductLicenseConsumersSortByEnum Enum with underlying type: string
type ListProductLicenseConsumersSortByEnum string

// Set of constants representing the allowable values for ListProductLicenseConsumersSortByEnum
const (
 ListProductLicenseConsumersSortByLicenseunitsrequired
 ListProductLicenseConsumersSortByEnum = "licenseUnitsRequired"
)

var mappingListProductLicenseConsumersSortByEnum = map[string]ListProductLicenseConsumersSortByEnum{
 "licenseUnitsRequired": ListProductLicenseConsumersSortByLicenseunitsrequired,
}

var mappingListProductLicenseConsumersSortByEnumLowerCase =
map[string]ListProductLicenseConsumersSortByEnum{
 "licenseunitsrequired": ListProductLicenseConsumersSortByLicenseunitsrequired,
}

// GetListProductLicenseConsumersSortByEnumValues Enumerates the set of values for
ListProductLicenseConsumersSortByEnum
```

```
func GetListProductLicenseConsumersSortByEnumValues() []ListProductLicenseConsumersSortByEnum {
 values := make([]ListProductLicenseConsumersSortByEnum, 0)
 for _, v := range mappingListProductLicenseConsumersSortByEnum {
  values = append(values, v)
 }
 return values
}

// GetListProductLicenseConsumersSortByEnumStringValues Enumerates the set of values in String for
ListProductLicenseConsumersSortByEnum
func
 GetListProductLicenseConsumersSortByEnumStringValues() []string {
 return []string{
  "licenseUnitsRequired",
 }
}

// GetMappingListProductLicenseConsumersSortByEnum performs case Insensitive comparison on enum value and
return the desired enum
func GetMappingListProductLicenseConsumersSortByEnum(val string)
(ListProductLicenseConsumersSortByEnum, bool) {
 enum, ok := mappingListProductLicenseConsumersSortByEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// GoldenGate API
//
// Use the Oracle Cloud Infrastructure GoldenGate APIs to perform data replication operations.
//

package goldengate

import (
 "strings"
)

// LicenseModelEnum Enum with underlying type: string
type LicenseModelEnum string

// Set of constants representing the allowable values for LicenseModelEnum
const (
 LicenseModelLicenseIncluded     LicenseModelEnum = "LICENSE_INCLUDED"
 LicenseModelBringYourOwnLicense LicenseModelEnum = "BRING_YOUR_OWN_LICENSE"
```

```
)

var mappingLicenseModelEnum = map[string]LicenseModelEnum{
 "LICENSE_INCLUDED":       LicenseModelLicenseIncluded,
 "BRING_YOUR_OWN_LICENSE": LicenseModelBringYourOwnLicense,
}

var
 mappingLicenseModelEnumLowerCase = map[string]LicenseModelEnum{
 "license_included":       LicenseModelLicenseIncluded,
 "bring_your_own_license": LicenseModelBringYourOwnLicense,
}

// GetLicenseModelEnumValues Enumerates the set of values for LicenseModelEnum
func GetLicenseModelEnumValues() []LicenseModelEnum {
 values := make([]LicenseModelEnum, 0)
 for _, v := range mappingLicenseModelEnum {
  values = append(values, v)
 }
 return values
}

// GetLicenseModelEnumStringValues Enumerates the set of values in String for LicenseModelEnum
func GetLicenseModelEnumStringValues() []string {
 return []string{
  "LICENSE_INCLUDED",
  "BRING_YOUR_OWN_LICENSE",
 }
}

// GetMappingLicenseModelEnum performs case Insensitive comparison on enum value and return the desired
enum
func GetMappingLicenseModelEnum(val string) (LicenseModelEnum, bool) {
 enum, ok := mappingLicenseModelEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Oracle Cloud VMware Solution API
//
// Use the Oracle Cloud VMware API to create SDDCs and manage ESXi hosts and software.
// For more information, see Oracle Cloud VMware Solution
(https://docs.cloud.oracle.com/iaas/Content/VMware/Concepts/ocvsoverview.htm).
//
```

```
package ocvp

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// VsphereLicense License for vSphere upgrade.
type VsphereLicense struct {

 // vSphere license type.
 LicenseType *string `mandatory:"true" json:"licenseType"`

 // vSphere license key value.
 LicenseKey *string `mandatory:"true" json:"licenseKey"`
}

func (m VsphereLicense) String()
 string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m VsphereLicense) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
```

```
)

// CreateLicenseRecordRequest wrapper for the CreateLicenseRecord operation
//
// # See also
//
// Click https://docs.cloud.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/CreateLicenseRecord.go.html to see an example of how to use
CreateLicenseRecordRequest.
type CreateLicenseRecordRequest struct {

 // Details needed to create a new license record.
 CreateLicenseRecordDetails `contributesTo:"body"`

 // Unique product license identifier.
 ProductLicenseId *string `mandatory:"true" contributesTo:"query"
 name:"productLicenseId"`

 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // A token that uniquely identifies a request so it can be retried in case of a timeout or server error without
 // risk of executing that same action again. Retry tokens expire after 24 hours, but can be invalidated before
 // then due to conflicting operations (for example, if a resource has been deleted and purged from the system,
 // then a retry of the original creation request might be rejected).
 OpcRetryToken *string `mandatory:"false" contributesTo:"header" name:"opc-retry-token"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request CreateLicenseRecordRequest)
 String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request CreateLicenseRecordRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
```

```
}

// BinaryRequestBody implements the OCIRequest interface
func (request CreateLicenseRecordRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request CreateLicenseRecordRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This
 function is being called during constructing API request process
// Not recommended for calling this function directly
func (request CreateLicenseRecordRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// CreateLicenseRecordResponse wrapper for the CreateLicenseRecord operation
type CreateLicenseRecordResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // The LicenseRecord instance
 LicenseRecord `presentIn:"body"`

 // For optimistic concurrency control. See `if-match`.
 Etag *string `presentIn:"header" name:"etag"`

 // Unique Oracle-assigned identifier for the asynchronous request. You can use this to query the status of the
asynchronous operation.
 OpcWorkRequestId *string `presentIn:"header" name:"opc-work-request-id"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular
 request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // Location of the resource.
```

```
 Location *string `presentIn:"header" name:"location"`
}

func (response CreateLicenseRecordResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response CreateLicenseRecordResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview
(https://docs.cloud.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// ProductLicenseConsumerSummary Details of a resource that is consuming a particular product license.
type ProductLicenseConsumerSummary struct {

 // The OCID (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/identifiers.htm) of the resource.
 ResourceId *string `mandatory:"true"
 json:"resourceId"`

 // The display name of the resource.
 ResourceName *string `mandatory:"true" json:"resourceName"`

 // The resource product name.
 ProductName *string `mandatory:"true" json:"productName"`

 // The OCID (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/identifiers.htm) of the compartment that
contains the resource.
 ResourceCompartmentId *string `mandatory:"true" json:"resourceCompartmentId"`
```

```
 // The display name of the compartment that contains the resource.
 ResourceCompartmentName *string `mandatory:"true" json:"resourceCompartmentName"`

 // The unit type for the resource.
 ResourceUnitType ResourceUnitEnum `mandatory:"true" json:"resourceUnitType"`

 // Number of units of the resource
 ResourceUnitCount *float64 `mandatory:"true" json:"resourceUnitCount"`

 // The product license unit.
 LicenseUnitType LicenseUnitEnum `mandatory:"true" json:"licenseUnitType"`

 // Number of license units consumed by the resource.
 LicenseUnitsConsumed
 *float64 `mandatory:"true" json:"licenseUnitsConsumed"`

 // Specifies if the base license is available.
 IsBaseLicenseAvailable *bool `mandatory:"true" json:"isBaseLicenseAvailable"`

 // Specifies if all options are available.
 AreAllOptionsAvailable *bool `mandatory:"true" json:"areAllOptionsAvailable"`

 // Collection of missing product licenses.
 MissingProducts []Product `mandatory:"true" json:"missingProducts"`
}

func (m ProductLicenseConsumerSummary) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m ProductLicenseConsumerSummary) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingResourceUnitEnum(string(m.ResourceUnitType)); !ok && m.ResourceUnitType != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for
 ResourceUnitType: %s. Supported values are: %s.", m.ResourceUnitType,
strings.Join(GetResourceUnitEnumStringValues(), ",")))
 }
 if _, ok := GetMappingLicenseUnitEnum(string(m.LicenseUnitType)); !ok && m.LicenseUnitType != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseUnitType: %s. Supported values
are: %s.", m.LicenseUnitType, strings.Join(GetLicenseUnitEnumStringValues(), ",")))
 }

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
```

```
 }
 return false, nil
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// ListProductLicensesRequest wrapper for the ListProductLicenses operation
//
// # See also
//
// Click https://docs.cloud.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/ListProductLicenses.go.html to see an example of how to use
ListProductLicensesRequest.
type ListProductLicensesRequest struct {

 // The compartment OCID (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/identifiers.htm) used for
the license record, product license, and configuration.
 CompartmentId *string `mandatory:"true"
 contributesTo:"query" name:"compartmentId"`

 // The maximum number of items to return.
 Limit *int `mandatory:"false" contributesTo:"query" name:"limit"`

 // A token representing the position at which to start retrieving results. This must come from the `opc-next-page`
header field of a previous response.
 Page *string `mandatory:"false" contributesTo:"query" name:"page"`

 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Indicates if the given compartment is the root compartment.
 IsCompartmentIdInSubtree *bool `mandatory:"false" contributesTo:"query" name:"isCompartmentIdInSubtree"`

 // The sort order to use, whether `ASC` or `DESC`.
 SortOrder ListProductLicensesSortOrderEnum `mandatory:"false" contributesTo:"query" name:"sortOrder"
```

```
omitEmpty:"true"`

 // Specifies the attribute with which
 to sort the rules.
 // Default: `totalLicenseUnitsConsumed`
 // * **totalLicenseUnitsConsumed:** Sorts by totalLicenseUnitsConsumed of ProductLicense.
 SortBy ListProductLicensesSortByEnum `mandatory:"false" contributesTo:"query" name:"sortBy"
omitEmpty:"true"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request ListProductLicensesRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request ListProductLicensesRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

//
 BinaryRequestBody implements the OCIRequest interface
func (request ListProductLicensesRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request ListProductLicensesRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request ListProductLicensesRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
```

```
 if _, ok := GetMappingListProductLicensesSortOrderEnum(string(request.SortOrder)); !ok && request.SortOrder !=
"" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for SortOrder: %s. Supported values are:
%s.", request.SortOrder, strings.Join(GetListProductLicensesSortOrderEnumStringValues(),
 ",")))
 }
 if _, ok := GetMappingListProductLicensesSortByEnum(string(request.SortBy)); !ok && request.SortBy != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for SortBy: %s. Supported values are: %s.",
request.SortBy, strings.Join(GetListProductLicensesSortByEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// ListProductLicensesResponse wrapper for the ListProductLicenses operation
type ListProductLicensesResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // A list of ProductLicenseCollection instances
 ProductLicenseCollection `presentIn:"body"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // For pagination of a list of items.
 When paging through a list, if this header appears in the response,
 // then a partial list might have been returned. Include this value as the `page` parameter for the
 // subsequent GET request to get the next batch of items.
 OpcNextPage *string `presentIn:"header" name:"opc-next-page"`
}

func (response ListProductLicensesResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response ListProductLicensesResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}

// ListProductLicensesSortOrderEnum Enum with underlying type: string
type ListProductLicensesSortOrderEnum string
```

```
// Set of constants representing the allowable values for ListProductLicensesSortOrderEnum
const (
 ListProductLicensesSortOrderAsc  ListProductLicensesSortOrderEnum = "ASC"
 ListProductLicensesSortOrderDesc ListProductLicensesSortOrderEnum = "DESC"
)

var mappingListProductLicensesSortOrderEnum = map[string]ListProductLicensesSortOrderEnum{
 "ASC":
  ListProductLicensesSortOrderAsc,
 "DESC": ListProductLicensesSortOrderDesc,
}

var mappingListProductLicensesSortOrderEnumLowerCase = map[string]ListProductLicensesSortOrderEnum{
 "asc":  ListProductLicensesSortOrderAsc,
 "desc": ListProductLicensesSortOrderDesc,
}

// GetListProductLicensesSortOrderEnumValues Enumerates the set of values for
ListProductLicensesSortOrderEnum
func GetListProductLicensesSortOrderEnumValues() []ListProductLicensesSortOrderEnum {
 values := make([]ListProductLicensesSortOrderEnum, 0)
 for _, v := range mappingListProductLicensesSortOrderEnum {
  values = append(values, v)
 }
 return values
}

// GetListProductLicensesSortOrderEnumStringValues Enumerates the set of values in String for
ListProductLicensesSortOrderEnum
func GetListProductLicensesSortOrderEnumStringValues() []string {
 return []string{
  "ASC",
  "DESC",
 }
}

// GetMappingListProductLicensesSortOrderEnum performs case Insensitive comparison on enum value and return
 the desired enum
func GetMappingListProductLicensesSortOrderEnum(val string) (ListProductLicensesSortOrderEnum, bool) {
 enum, ok := mappingListProductLicensesSortOrderEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}

// ListProductLicensesSortByEnum Enum with underlying type: string
type ListProductLicensesSortByEnum string

// Set of constants representing the allowable values for ListProductLicensesSortByEnum
const (
```

```
 ListProductLicensesSortByTotallicenseunitsconsumed ListProductLicensesSortByEnum =
"totalLicenseUnitsConsumed"
)

var mappingListProductLicensesSortByEnum = map[string]ListProductLicensesSortByEnum{
 "totalLicenseUnitsConsumed": ListProductLicensesSortByTotallicenseunitsconsumed,
}

var mappingListProductLicensesSortByEnumLowerCase = map[string]ListProductLicensesSortByEnum{
 "totallicenseunitsconsumed": ListProductLicensesSortByTotallicenseunitsconsumed,
}

// GetListProductLicensesSortByEnumValues Enumerates the set of values for ListProductLicensesSortByEnum
func
 GetListProductLicensesSortByEnumValues() []ListProductLicensesSortByEnum {
 values := make([]ListProductLicensesSortByEnum, 0)
 for _, v := range mappingListProductLicensesSortByEnum {
  values = append(values, v)
 }
 return values
}

// GetListProductLicensesSortByEnumStringValues Enumerates the set of values in String for
ListProductLicensesSortByEnum
func GetListProductLicensesSortByEnumStringValues() []string {
 return []string{
  "totalLicenseUnitsConsumed",
 }
}

// GetMappingListProductLicensesSortByEnum performs case Insensitive comparison on enum value and return the
desired enum
func GetMappingListProductLicensesSortByEnum(val string) (ListProductLicensesSortByEnum, bool) {
 enum, ok := mappingListProductLicensesSortByEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Identity and Access Management Service API
//
// Use the Identity and Access Management Service API to manage users, groups, identity domains, compartments,
policies, tagging, and limits. For information about managing users, groups, compartments, and policies, see Identity
and Access Management (without identity domains)
(https://docs.cloud.oracle.com/iaas/Content/Identity/Concepts/overview.htm). For information about tagging and
```

```
service limits, see Tagging (https://docs.cloud.oracle.com/iaas/Content/Tagging/Concepts/taggingoverview.htm) and
Service Limits (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/servicelimits.htm).
 For information about creating, modifying, and deleting identity domains, see Identity and Access Management
(with identity domains) (https://docs.cloud.oracle.com/iaas/Content/Identity/home.htm).
//

package identity

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// AllowedDomainLicenseTypeSummary (For tenancies that support identity domains) The
'AllowedDomainLicenseTypeSummary' object contains information about the license type of the identity domain.
type AllowedDomainLicenseTypeSummary struct {

 // The license type name.
 // Example: "Oracle Apps Premium"
 Name *string `mandatory:"true" json:"name"`

 // The license type identifier.
 // Example: "oracle-apps-premium"
 LicenseType *string `mandatory:"true" json:"licenseType"`

 // The license type description.
 Description *string `mandatory:"true" json:"description"`
}

func (m AllowedDomainLicenseTypeSummary) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns
 an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m AllowedDomainLicenseTypeSummary) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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```

```
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// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview
(https://docs.cloud.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// TopUtilizedProductLicenseSummary A summary of the top utilized product licenses.
type TopUtilizedProductLicenseSummary struct {

 // The product license OCID (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/identifiers.htm).
 ProductLicenseId *string `mandatory:"true"
 json:"productLicenseId"`

 // The product type.
 ProductType *string `mandatory:"true" json:"productType"`

 // The product license unit.
 UnitType LicenseUnitEnum `mandatory:"true" json:"unitType"`

 // Number of license units consumed.
 TotalUnitsConsumed *float64 `mandatory:"true" json:"totalUnitsConsumed"`

 // Total number of license units in the product license provided by the user.
 TotalLicenseUnitCount *int `mandatory:"true" json:"totalLicenseUnitCount"`

 // Specifies if the license unit count is unlimited.
 IsUnlimited *bool `mandatory:"true" json:"isUnlimited"`

 // The current product license status.
 Status StatusEnum `mandatory:"true" json:"status"`
}

func (m TopUtilizedProductLicenseSummary) String() string {
 return common.PointerString(m)
}
```

```
// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m TopUtilizedProductLicenseSummary)
 ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingLicenseUnitEnum(string(m.UnitType)); !ok && m.UnitType != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for UnitType: %s. Supported values are:
%s.", m.UnitType, strings.Join(GetLicenseUnitEnumStringValues(), ",")))
 }
 if _, ok := GetMappingStatusEnum(string(m.Status)); !ok && m.Status != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for Status: %s. Supported values are: %s.",
m.Status, strings.Join(GetStatusEnumStringValues(), ",")))
 }

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Marketplace Service API
//
// Use the Marketplace API to manage applications in Oracle Cloud Infrastructure Marketplace. For more
information, see Overview of Marketplace
(https://docs.cloud.oracle.com/Content/Marketplace/Concepts/marketoverview.htm)
//

package marketplace

import (
 "encoding/json"
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// Eula A base object for all types of end user license agreements.
type Eula interface {
}

type eula struct {
```

```
 JsonData []byte
 EulaType string `json:"eulaType"`
}

// UnmarshalJSON unmarshals json
func (m *eula) UnmarshalJSON(data []byte) error {
 m.JsonData = data
 type
 Unmarshalereula eula
 s := struct {
  Model Unmarshalereula
 }{}
 err := json.Unmarshal(data, &s.Model)
 if err != nil {
  return err
 }
 m.EulaType = s.Model.EulaType

 return err
}

// UnmarshalPolymorphicJSON unmarshals polymorphic json
func (m *eula) UnmarshalPolymorphicJSON(data []byte) (interface{}, error) {

 if data == nil || string(data) == "null" {
  return nil, nil
 }

 var err error
 switch m.EulaType {
 case "TEXT":
  mm := TextBasedEula{}
  err = json.Unmarshal(data, &mm)
  return mm, err
 default:
  common.Logf("Recieved unsupported enum value for Eula: %s.", m.EulaType)
  return *m, nil
 }
}

func (m eula) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m eula) ValidateEnumValue() (bool, error) {
```

```
 errMessage := []string{}

 if len(errMessage) > 0
 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview
(https://docs.cloud.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// UpdateLicenseRecordDetails The details about updates in the license record.
type UpdateLicenseRecordDetails struct {

 // License record name.
 DisplayName *string `mandatory:"true" json:"displayName"`

 // Specifies if the license record term is perpertual.
 IsPerpetual *bool
 `mandatory:"true" json:"isPerpetual"`

 // Specifies if the license count is unlimited.
 IsUnlimited *bool `mandatory:"true" json:"isUnlimited"`

 // The license record end date in RFC 3339 (https://tools.ietf.org/html/rfc3339)
 // date format.
 // Example: `2018-09-12`
 ExpirationDate *common.SDKTime `mandatory:"false" json:"expirationDate"`

 // The license record support end date in RFC 3339 (https://tools.ietf.org/html/rfc3339)
```

```
 // date format.
 // Example: `2018-09-12`
 SupportEndDate *common.SDKTime `mandatory:"false" json:"supportEndDate"`

 // The number of license units added by a user in a license record.
 // Default 1
 LicenseCount *int `mandatory:"false" json:"licenseCount"`

 // The license record product ID.
 ProductId *string `mandatory:"false" json:"productId"`

 // Simple key-value pair that is applied without any predefined name, type, or scope. Exists for cross-compatibility
only.
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false"
 json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`
}

func (m UpdateLicenseRecordDetails) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m UpdateLicenseRecordDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Oracle Cloud VMware Solution API
//
// Use the Oracle Cloud VMware API to create SDDCs and manage ESXi hosts and software.
// For more information, see Oracle Cloud VMware Solution
(https://docs.cloud.oracle.com/iaas/Content/VMware/Concepts/ocvsoverview.htm).
```

```
//

package ocvp

import (
 "strings"
)

// HcxLicenseStatusEnum Enum with underlying type: string
type HcxLicenseStatusEnum string

// Set of constants representing the allowable values for HcxLicenseStatusEnum
const (
 HcxLicenseStatusAvailable   HcxLicenseStatusEnum = "AVAILABLE"
 HcxLicenseStatusConsumed    HcxLicenseStatusEnum = "CONSUMED"
 HcxLicenseStatusDeactivated
 HcxLicenseStatusEnum = "DEACTIVATED"
 HcxLicenseStatusDeleted     HcxLicenseStatusEnum = "DELETED"
)

var mappingHcxLicenseStatusEnum = map[string]HcxLicenseStatusEnum{
 "AVAILABLE":   HcxLicenseStatusAvailable,
 "CONSUMED":    HcxLicenseStatusConsumed,
 "DEACTIVATED": HcxLicenseStatusDeactivated,
 "DELETED":     HcxLicenseStatusDeleted,
}

var mappingHcxLicenseStatusEnumLowerCase = map[string]HcxLicenseStatusEnum{
 "available":   HcxLicenseStatusAvailable,
 "consumed":    HcxLicenseStatusConsumed,
 "deactivated": HcxLicenseStatusDeactivated,
 "deleted":     HcxLicenseStatusDeleted,
}

// GetHcxLicenseStatusEnumValues Enumerates the set of values for HcxLicenseStatusEnum
func GetHcxLicenseStatusEnumValues() []HcxLicenseStatusEnum {
 values := make([]HcxLicenseStatusEnum, 0)
 for _, v := range mappingHcxLicenseStatusEnum {
  values = append(values, v)
 }
 return values
}

// GetHcxLicenseStatusEnumStringValues Enumerates the set of values in String for HcxLicenseStatusEnum
func GetHcxLicenseStatusEnumStringValues()
 []string {
 return []string{
  "AVAILABLE",
```

```
  "CONSUMED",
  "DEACTIVATED",
  "DELETED",
 }
}

// GetMappingHcxLicenseStatusEnum performs case Insensitive comparison on enum value and return the desired
enum
func GetMappingHcxLicenseStatusEnum(val string) (HcxLicenseStatusEnum, bool) {
 enum, ok := mappingHcxLicenseStatusEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// DeleteLicenseRecordRequest wrapper for the DeleteLicenseRecord operation
//
// # See also
//
// Click https://docs.cloud.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/DeleteLicenseRecord.go.html to see an example of how to use
DeleteLicenseRecordRequest.
type DeleteLicenseRecordRequest struct {

 // Unique license record identifier.
 LicenseRecordId *string `mandatory:"true" contributesTo:"path" name:"licenseRecordId"`

 // The unique Oracle-assigned identifier for the request. If you need to contact
 Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // For optimistic concurrency control. In the PUT or DELETE call for a resource, set the `if-match`
 // parameter to the value of the etag from a previous GET or POST response for that resource.  The resource
 // will be updated or deleted only if the etag you provide matches the resource's current etag value.
 IfMatch *string `mandatory:"false" contributesTo:"header" name:"if-match"`
```

```
 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request DeleteLicenseRecordRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request DeleteLicenseRecordRequest) HTTPRequest(method, path string, binaryRequestBody
 *common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request DeleteLicenseRecordRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request DeleteLicenseRecordRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request DeleteLicenseRecordRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if
 len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// DeleteLicenseRecordResponse wrapper for the DeleteLicenseRecord operation
type DeleteLicenseRecordResponse struct {
```

```
 // The underlying http response
 RawResponse *http.Response

 // Unique Oracle-assigned identifier for the asynchronous request. You can use this to query the status of the
asynchronous operation.
 OpcWorkRequestId *string `presentIn:"header" name:"opc-work-request-id"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // Location of the resource.
 Location *string `presentIn:"header" name:"location"`
}

func (response DeleteLicenseRecordResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response DeleteLicenseRecordResponse)
 HTTPResponse() *http.Response {
 return response.RawResponse
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package identity

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// ChangeDomainLicenseTypeRequest wrapper for the ChangeDomainLicenseType operation
//
// # See also
//
// Click https://docs.cloud.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/identity/ChangeDomainLicenseType.go.html to see an example of how to use
ChangeDomainLicenseTypeRequest.
type ChangeDomainLicenseTypeRequest struct {
```

```
 // The OCID of the identity domain.
 DomainId *string `mandatory:"true" contributesTo:"path" name:"domainId"`

 // The request object for an update to the license type of the identity domain.
 ChangeDomainLicenseTypeDetails
 `contributesTo:"body"`

 // Unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // A token that uniquely identifies a request so it can be retried in case of a timeout or
 // server error without risk of executing that same action again. Retry tokens expire after 24
 // hours, but can be invalidated before then due to conflicting operations (e.g., if a resource
 // has been deleted and purged from the system, then a retry of the original creation request
 // may be rejected).
 OpcRetryToken *string `mandatory:"false" contributesTo:"header" name:"opc-retry-token"`

 // For optimistic concurrency control. In the PUT or DELETE call for a resource, set the `if-match`
 // parameter to the value of the etag from a previous GET or POST response for that resource.  The resource
 // will be
 updated or deleted only if the etag you provide matches the resource's current etag value.
 IfMatch *string `mandatory:"false" contributesTo:"header" name:"if-match"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request ChangeDomainLicenseTypeRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request ChangeDomainLicenseTypeRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request ChangeDomainLicenseTypeRequest)
```

```
 BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request ChangeDomainLicenseTypeRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request ChangeDomainLicenseTypeRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// ChangeDomainLicenseTypeResponse wrapper for the ChangeDomainLicenseType operation
type ChangeDomainLicenseTypeResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // Unique Oracle-assigned identifier for the request.
 If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // The OCID (https://docs.cloud.oracle.com/Content/General/Concepts/identifiers.htm) of the work request.
 OpcWorkRequestId *string `presentIn:"header" name:"opc-work-request-id"`
}

func (response ChangeDomainLicenseTypeResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response ChangeDomainLicenseTypeResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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```

```
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// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// DeleteProductLicenseRequest wrapper for the DeleteProductLicense operation
//
// # See also
//
// Click https://docs.cloud.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/DeleteProductLicense.go.html to see an example of how to use
DeleteProductLicenseRequest.
type DeleteProductLicenseRequest struct {

 // Unique product license identifier.
 ProductLicenseId *string `mandatory:"true" contributesTo:"path" name:"productLicenseId"`

 // The unique Oracle-assigned identifier for the request. If you need
 to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // For optimistic concurrency control. In the PUT or DELETE call for a resource, set the `if-match`
 // parameter to the value of the etag from a previous GET or POST response for that resource.  The resource
 // will be updated or deleted only if the etag you provide matches the resource's current etag value.
 IfMatch *string `mandatory:"false" contributesTo:"header" name:"if-match"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request DeleteProductLicenseRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request DeleteProductLicenseRequest) HTTPRequest(method, path string,
 binaryRequestBody *common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
```

```
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request DeleteProductLicenseRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request DeleteProductLicenseRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request DeleteProductLicenseRequest) ValidateEnumValue() (bool, error) {
 errMessage
 := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// DeleteProductLicenseResponse wrapper for the DeleteProductLicense operation
type DeleteProductLicenseResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // Unique Oracle-assigned identifier for the asynchronous request. You can use this to query the status of the
asynchronous operation.
 OpcWorkRequestId *string `presentIn:"header" name:"opc-work-request-id"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // Location of the resource.
 Location *string `presentIn:"header" name:"location"`
}
```

```
func (response DeleteProductLicenseResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response
 DeleteProductLicenseResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview
(https://docs.cloud.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// LicenseRecordCollection The license record summary collection.
type LicenseRecordCollection struct {

 // The license record summary collection.
 Items []LicenseRecordSummary `mandatory:"true" json:"items"`
}

func (m LicenseRecordCollection) String() string {
 return common.PointerString(m)
}

//
 ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m LicenseRecordCollection) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
```

```
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package identity

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// ListAllowedDomainLicenseTypesRequest wrapper for the ListAllowedDomainLicenseTypes operation
//
// # See also
//
// Click https://docs.cloud.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/identity/ListAllowedDomainLicenseTypes.go.html to see an example of how to use
ListAllowedDomainLicenseTypesRequest.
type ListAllowedDomainLicenseTypesRequest struct {

 // The license type of the identity domain.
 CurrentLicenseTypeName *string `mandatory:"false" contributesTo:"query" name:"currentLicenseTypeName"`

 // Unique Oracle-assigned
 identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request ListAllowedDomainLicenseTypesRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
```

```
func (request ListAllowedDomainLicenseTypesRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody
 implements the OCIRequest interface
func (request ListAllowedDomainLicenseTypesRequest) BinaryRequestBody() (*common.OCIReadSeekCloser,
bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request ListAllowedDomainLicenseTypesRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request ListAllowedDomainLicenseTypesRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// ListAllowedDomainLicenseTypesResponse wrapper for the ListAllowedDomainLicenseTypes operation
type ListAllowedDomainLicenseTypesResponse struct {

 // The underlying
 http response
 RawResponse *http.Response

 // The []AllowedDomainLicenseTypeSummary instance
 Items []AllowedDomainLicenseTypeSummary `presentIn:"body"`

 // Unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
```

```
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // For pagination of a list of items. When paging through a list, if this header appears in the response,
 // then a partial list might have been returned. Include this value as the `page` parameter for the
 // subsequent GET request to get the next batch of items.
 OpcNextPage *string `presentIn:"header" name:"opc-next-page"`
}

func (response ListAllowedDomainLicenseTypesResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response ListAllowedDomainLicenseTypesResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Analytics API
//
// Analytics API.
//

package analytics

import (
 "strings"
)

// LicenseTypeEnum Enum with underlying type: string
type LicenseTypeEnum string

// Set of constants representing the allowable values for LicenseTypeEnum
const (
 LicenseTypeLicenseIncluded     LicenseTypeEnum = "LICENSE_INCLUDED"
 LicenseTypeBringYourOwnLicense LicenseTypeEnum = "BRING_YOUR_OWN_LICENSE"
)

var mappingLicenseTypeEnum = map[string]LicenseTypeEnum{
 "LICENSE_INCLUDED":       LicenseTypeLicenseIncluded,
 "BRING_YOUR_OWN_LICENSE": LicenseTypeBringYourOwnLicense,
}

var mappingLicenseTypeEnumLowerCase = map[string]LicenseTypeEnum{
```

```
 "license_included":
      LicenseTypeLicenseIncluded,
 "bring_your_own_license": LicenseTypeBringYourOwnLicense,
}

// GetLicenseTypeEnumValues Enumerates the set of values for LicenseTypeEnum
func GetLicenseTypeEnumValues() []LicenseTypeEnum {
 values := make([]LicenseTypeEnum, 0)
 for _, v := range mappingLicenseTypeEnum {
  values = append(values, v)
 }
 return values
}

// GetLicenseTypeEnumStringValues Enumerates the set of values in String for LicenseTypeEnum
func GetLicenseTypeEnumStringValues() []string {
 return []string{
  "LICENSE_INCLUDED",
  "BRING_YOUR_OWN_LICENSE",
 }
}

// GetMappingLicenseTypeEnum performs case Insensitive comparison on enum value and return the desired enum
func GetMappingLicenseTypeEnum(val string) (LicenseTypeEnum, bool) {
 enum, ok := mappingLicenseTypeEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Identity and Access Management Service API
//
// Use the Identity and Access Management Service API to manage users, groups, identity domains, compartments,
policies, tagging, and limits. For information about managing users, groups, compartments, and policies, see Identity
and Access Management (without identity domains)
(https://docs.cloud.oracle.com/iaas/Content/Identity/Concepts/overview.htm). For information about tagging and
service limits, see Tagging (https://docs.cloud.oracle.com/iaas/Content/Tagging/Concepts/taggingoverview.htm) and
Service Limits (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/servicelimits.htm).
 For information about creating, modifying, and deleting identity domains, see Identity and Access Management
(with identity domains) (https://docs.cloud.oracle.com/iaas/Content/Identity/home.htm).
//

package identity

import (
```

```
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// ChangeDomainLicenseTypeDetails (For tenancies that support identity domains) Details for updating the license
type of the identity domain.
type ChangeDomainLicenseTypeDetails struct {

 // The license type of the identity domain.
 LicenseType *string `mandatory:"false" json:"licenseType"`
}

func (m ChangeDomainLicenseTypeDetails) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m ChangeDomainLicenseTypeDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if
 len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// GetLicenseRecordRequest wrapper for the GetLicenseRecord operation
//
// # See also
//
```

```
// Click https://docs.cloud.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/GetLicenseRecord.go.html to see an example of how to use
GetLicenseRecordRequest.
type GetLicenseRecordRequest struct {

 // Unique license record identifier.
 LicenseRecordId *string `mandatory:"true" contributesTo:"path" name:"licenseRecordId"`

 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle about
 a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request GetLicenseRecordRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request GetLicenseRecordRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request GetLicenseRecordRequest) BinaryRequestBody() (*common.OCIReadSeekCloser,
 bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request GetLicenseRecordRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
```

```
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request GetLicenseRecordRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// GetLicenseRecordResponse wrapper for the GetLicenseRecord operation
type GetLicenseRecordResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // The LicenseRecord instance
 LicenseRecord `presentIn:"body"`

 // For optimistic concurrency control. See `if-match`.
 Etag
 *string `presentIn:"header" name:"etag"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`
}

func (response GetLicenseRecordResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response GetLicenseRecordResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview
(https://docs.cloud.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//
```

```
package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// LicenseMetric Overview of product license and resources usage.
type LicenseMetric struct {

 // Total number of product licenses in a particular compartment.
 TotalProductLicenseCount *int `mandatory:"true" json:"totalProductLicenseCount"`

 // Total number of BYOL instances in
 a particular compartment.
 TotalByolInstanceCount *int `mandatory:"true" json:"totalByolInstanceCount"`

 // Total number of License Included (LI) instances in a particular compartment.
 TotalLicenseIncludedInstanceCount *int `mandatory:"true" json:"totalLicenseIncludedInstanceCount"`

 // Total number of license records that will expire within 90 days in a particular compartment.
 LicenseRecordExpiringSoonCount *int `mandatory:"true" json:"licenseRecordExpiringSoonCount"`
}

func (m LicenseMetric) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m LicenseMetric) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package licensemanager
```

```
import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// ListLicenseRecordsRequest wrapper for the ListLicenseRecords operation
//
// # See also
//
// Click https://docs.cloud.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/ListLicenseRecords.go.html to see an example of how to use
ListLicenseRecordsRequest.
type ListLicenseRecordsRequest struct {

 // Unique product license identifier.
 ProductLicenseId *string `mandatory:"true" contributesTo:"query" name:"productLicenseId"`

 // The maximum number of items to return.
 Limit *int `mandatory:"false" contributesTo:"query"
 name:"limit"`

 // A token representing the position at which to start retrieving results. This must come from the `opc-next-page`
header field of a previous response.
 Page *string `mandatory:"false" contributesTo:"query" name:"page"`

 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // The sort order to use, whether `ASC` or `DESC`.
 SortOrder ListLicenseRecordsSortOrderEnum `mandatory:"false" contributesTo:"query" name:"sortOrder"
omitEmpty:"true"`

 // Specifies the attribute with which to sort the rules.
 // Default: `expirationDate`
 // * **expirationDate:** Sorts by expiration date of the license record.
 SortBy ListLicenseRecordsSortByEnum `mandatory:"false" contributesTo:"query" name:"sortBy"
omitEmpty:"true"`

 // Metadata about the request. This information will not be
 transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}
```

```
func (request ListLicenseRecordsRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request ListLicenseRecordsRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request ListLicenseRecordsRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request ListLicenseRecordsRequest)
 RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request ListLicenseRecordsRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingListLicenseRecordsSortOrderEnum(string(request.SortOrder)); !ok && request.SortOrder !=
"" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for SortOrder: %s. Supported values are:
%s.", request.SortOrder, strings.Join(GetListLicenseRecordsSortOrderEnumStringValues(), ",")))
 }
 if _, ok := GetMappingListLicenseRecordsSortByEnum(string(request.SortBy)); !ok && request.SortBy != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for SortBy: %s. Supported values are: %s.",
request.SortBy, strings.Join(GetListLicenseRecordsSortByEnumStringValues(),
 ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
```

```
}

// ListLicenseRecordsResponse wrapper for the ListLicenseRecords operation
type ListLicenseRecordsResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // A list of LicenseRecordCollection instances
 LicenseRecordCollection `presentIn:"body"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // For pagination of a list of items. When paging through a list, if this header appears in the response,
 // then a partial list might have been returned. Include this value as the `page` parameter for the
 // subsequent GET request to get the next batch of items.
 OpcNextPage *string `presentIn:"header" name:"opc-next-page"`
}

func (response ListLicenseRecordsResponse) String()
 string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response ListLicenseRecordsResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}

// ListLicenseRecordsSortOrderEnum Enum with underlying type: string
type ListLicenseRecordsSortOrderEnum string

// Set of constants representing the allowable values for ListLicenseRecordsSortOrderEnum
const (
 ListLicenseRecordsSortOrderAsc  ListLicenseRecordsSortOrderEnum = "ASC"
 ListLicenseRecordsSortOrderDesc ListLicenseRecordsSortOrderEnum = "DESC"
)

var mappingListLicenseRecordsSortOrderEnum = map[string]ListLicenseRecordsSortOrderEnum{
 "ASC":  ListLicenseRecordsSortOrderAsc,
 "DESC": ListLicenseRecordsSortOrderDesc,
}

var mappingListLicenseRecordsSortOrderEnumLowerCase = map[string]ListLicenseRecordsSortOrderEnum{
 "asc":  ListLicenseRecordsSortOrderAsc,
 "desc": ListLicenseRecordsSortOrderDesc,
```

```
}

// GetListLicenseRecordsSortOrderEnumValues Enumerates the set of
 values for ListLicenseRecordsSortOrderEnum
func GetListLicenseRecordsSortOrderEnumValues() []ListLicenseRecordsSortOrderEnum {
 values := make([]ListLicenseRecordsSortOrderEnum, 0)
 for _, v := range mappingListLicenseRecordsSortOrderEnum {
  values = append(values, v)
 }
 return values
}

// GetListLicenseRecordsSortOrderEnumStringValues Enumerates the set of values in String for
ListLicenseRecordsSortOrderEnum
func GetListLicenseRecordsSortOrderEnumStringValues() []string {
 return []string{
  "ASC",
  "DESC",
 }
}

// GetMappingListLicenseRecordsSortOrderEnum performs case Insensitive comparison on enum value and return
the desired enum
func GetMappingListLicenseRecordsSortOrderEnum(val string) (ListLicenseRecordsSortOrderEnum, bool) {
 enum, ok := mappingListLicenseRecordsSortOrderEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}

// ListLicenseRecordsSortByEnum Enum with underlying type: string
type ListLicenseRecordsSortByEnum string

// Set of constants representing the allowable
 values for ListLicenseRecordsSortByEnum
const (
 ListLicenseRecordsSortByExpirationdate ListLicenseRecordsSortByEnum = "expirationDate"
)

var mappingListLicenseRecordsSortByEnum = map[string]ListLicenseRecordsSortByEnum{
 "expirationDate": ListLicenseRecordsSortByExpirationdate,
}

var mappingListLicenseRecordsSortByEnumLowerCase = map[string]ListLicenseRecordsSortByEnum{
 "expirationdate": ListLicenseRecordsSortByExpirationdate,
}

// GetListLicenseRecordsSortByEnumValues Enumerates the set of values for ListLicenseRecordsSortByEnum
func GetListLicenseRecordsSortByEnumValues() []ListLicenseRecordsSortByEnum {
 values := make([]ListLicenseRecordsSortByEnum, 0)
```

```
 for _, v := range mappingListLicenseRecordsSortByEnum {
  values = append(values, v)
 }
 return values
}

// GetListLicenseRecordsSortByEnumStringValues Enumerates the set of values in String for
ListLicenseRecordsSortByEnum
func GetListLicenseRecordsSortByEnumStringValues() []string {
 return []string{
  "expirationDate",
 }
}

//
 GetMappingListLicenseRecordsSortByEnum performs case Insensitive comparison on enum value and return the
desired enum
func GetMappingListLicenseRecordsSortByEnum(val string) (ListLicenseRecordsSortByEnum, bool) {
 enum, ok := mappingListLicenseRecordsSortByEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// BulkUploadLicenseRecordsRequest wrapper for the BulkUploadLicenseRecords operation
//
// # See also
//
// Click https://docs.cloud.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/BulkUploadLicenseRecords.go.html to see an example of how to use
BulkUploadLicenseRecordsRequest.
type BulkUploadLicenseRecordsRequest struct {

 // Details required for the bulk upload of product licenses and license records.
 BulkUploadLicenseRecordsDetails `contributesTo:"body"`
```

```
 // The unique Oracle-assigned identifier
 for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request BulkUploadLicenseRecordsRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request BulkUploadLicenseRecordsRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func
 (request BulkUploadLicenseRecordsRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request BulkUploadLicenseRecordsRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request BulkUploadLicenseRecordsRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
```

```
}

// BulkUploadLicenseRecordsResponse wrapper for the BulkUploadLicenseRecords operation
type BulkUploadLicenseRecordsResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // The BulkUploadResponse
 instance
 BulkUploadResponse `presentIn:"body"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`
}

func (response BulkUploadLicenseRecordsResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response BulkUploadLicenseRecordsResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview
(https://docs.cloud.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// TopUtilizedProductLicenseCollection A collection of top utilized product licenses.
type TopUtilizedProductLicenseCollection struct {
```

```
 // Collection of top utilized product licenses.
 Items []TopUtilizedProductLicenseSummary `mandatory:"true" json:"items"`
}

func (m TopUtilizedProductLicenseCollection)
 String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m TopUtilizedProductLicenseCollection) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview
(https://docs.cloud.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// ProductLicenseCollection The product license summary collection.
type ProductLicenseCollection struct {

 // The product license summary collection.
 Items []ProductLicenseSummary `mandatory:"true" json:"items"`
}
```

```
func (m ProductLicenseCollection) String() string {
 return common.PointerString(m)
}

//
 ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m ProductLicenseCollection) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Identity and Access Management Service API
//
// Use the Identity and Access Management Service API to manage users, groups, identity domains, compartments,
policies, tagging, and limits. For information about managing users, groups, compartments, and policies, see Identity
and Access Management (without identity domains)
(https://docs.cloud.oracle.com/iaas/Content/Identity/Concepts/overview.htm). For information about tagging and
service limits, see Tagging (https://docs.cloud.oracle.com/iaas/Content/Tagging/Concepts/taggingoverview.htm) and
Service Limits (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/servicelimits.htm).
 For information about creating, modifying, and deleting identity domains, see Identity and Access Management
(with identity domains) (https://docs.cloud.oracle.com/iaas/Content/Identity/home.htm).
//

package identity

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// ChangeTasDomainLicenseTypeDetails (For tenancies that support identity domains) Update the identity domain
license type.
type ChangeTasDomainLicenseTypeDetails struct {

 // The license type of the identity domain.
```

```
 LicenseType *string `mandatory:"false" json:"licenseType"`
}

func (m ChangeTasDomainLicenseTypeDetails) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m ChangeTasDomainLicenseTypeDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage)
 > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
```

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```
// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License Manager Overview
(https://docs.cloud.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// ProductLicenseSummary The product license summary.
type ProductLicenseSummary struct {

 // The product license OCID (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/identifiers.htm).
 Id *string `mandatory:"true" json:"id"`

 // The compartment OCID (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/identifiers.htm)
```

where the product license is created.
CompartmentId *string `mandatory:"true" json:"compartmentId"`

// The current product license status.
Status StatusEnum `mandatory:"true" json:"status"`

// The product license unit.
LicenseUnit LicenseUnitEnum `mandatory:"true" json:"licenseUnit"`

// Specifies whether the vendor is Oracle or a third party.
IsVendorOracle *bool `mandatory:"true" json:"isVendorOracle"`

// License record name
DisplayName *string `mandatory:"true" json:"displayName"`

// Status description for the current product license status.
StatusDescription *string `mandatory:"false" json:"statusDescription"`

// The current product license state.
LifecycleState LifeCycleStateEnum `mandatory:"false" json:"lifecycleState,omitempty"`

// The total number of licenses available for the product license, calculated by adding up all the license counts for active license records associated with the product license.
TotalActiveLicenseUnitCount
*int `mandatory:"false" json:"totalActiveLicenseUnitCount"`

// The number of license units consumed. Updated after each allocation run.
TotalLicenseUnitsConsumed *float64 `mandatory:"false" json:"totalLicenseUnitsConsumed"`

// The number of license records associated with the product license.
TotalLicenseRecordCount *int `mandatory:"false" json:"totalLicenseRecordCount"`

// The number of active license records associated with the product license.
ActiveLicenseRecordCount *int `mandatory:"false" json:"activeLicenseRecordCount"`

// Specifies whether or not the product license is oversubscribed.
IsOverSubscribed *bool `mandatory:"false" json:"isOverSubscribed"`

// Specifies if the license unit count is unlimited.
IsUnlimited *bool `mandatory:"false" json:"isUnlimited"`

// The vendor of the ProductLicense
VendorName *string `mandatory:"false" json:"vendorName"`

// The time the product license was created. An RFC 3339 (https://tools.ietf.org/html/rfc3339)-formatted datetime string.
TimeCreated *common.SDKTime `mandatory:"false" json:"timeCreated"`

```
 // The time the product license was updated. An RFC 3339 (https://tools.ietf.org/html/rfc3339)-formatted datetime
string.
 TimeUpdated *common.SDKTime `mandatory:"false" json:"timeUpdated"`

 // The images associated with the product license.
 Images []ImageResponse `mandatory:"false" json:"images"`

 // Simple key-value pair that is applied without any predefined name, type, or scope. Exists for cross-compatibility
only.
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`

 // Usage of system tag keys. These predefined keys are scoped to namespaces.
 // Example: `{"orcl-cloud": {"free-tier-retained":
 "true"}}`
 SystemTags map[string]map[string]interface{} `mandatory:"false" json:"systemTags"`
}

func (m ProductLicenseSummary) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m ProductLicenseSummary) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingStatusEnum(string(m.Status)); !ok && m.Status != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for Status: %s. Supported values are: %s.",
m.Status, strings.Join(GetStatusEnumStringValues(), ",")))
 }
 if _, ok := GetMappingLicenseUnitEnum(string(m.LicenseUnit)); !ok && m.LicenseUnit != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseUnit: %s. Supported values are:
%s.", m.LicenseUnit, strings.Join(GetLicenseUnitEnumStringValues(),
 ",")))
 }

 if _, ok := GetMappingLifeCycleStateEnum(string(m.LifecycleState)); !ok && m.LifecycleState != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LifecycleState: %s. Supported values
are: %s.", m.LifecycleState, strings.Join(GetLifeCycleStateEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
```

```
 return false, nil
}
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// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview
(https://docs.cloud.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// LicenseRecord License record summary.
type LicenseRecord struct {

 // The license record OCID (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/identifiers.htm).
 Id *string `mandatory:"true" json:"id"`

 // The license record display name. Avoid entering confidential
 information.
 DisplayName *string `mandatory:"true" json:"displayName"`

 // Specifies if the license count is unlimited.
 IsUnlimited *bool `mandatory:"true" json:"isUnlimited"`

 // Specifies if the license record term is perpertual.
 IsPerpetual *bool `mandatory:"true" json:"isPerpetual"`

 // The current license record state.
 LifecycleState LifeCycleStateEnum `mandatory:"true" json:"lifecycleState"`

 // The product license OCID (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/identifiers.htm) with
which the license record is associated.
 ProductLicenseId *string `mandatory:"false" json:"productLicenseId"`

 // The compartment OCID (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/identifiers.htm) where the
license record is created.
```

```
 CompartmentId *string `mandatory:"false" json:"compartmentId"`

 // The license record product ID.
 ProductId *string `mandatory:"false" json:"productId"`

 // The number of license units added by the user for the given license
 record.
 // Default 1
 LicenseCount *int `mandatory:"false" json:"licenseCount"`

 // The license record end date in RFC 3339 (https://tools.ietf.org/html/rfc3339)
 // date format.
 // Example: `2018-09-12`
 ExpirationDate *common.SDKTime `mandatory:"false" json:"expirationDate"`

 // The license record support end date in RFC 3339 (https://tools.ietf.org/html/rfc3339)
 // date format.
 // Example: `2018-09-12`
 SupportEndDate *common.SDKTime `mandatory:"false" json:"supportEndDate"`

 // The time the license record was created. An RFC 3339 (https://tools.ietf.org/html/rfc3339)-formatted datetime
string.
 TimeCreated *common.SDKTime `mandatory:"false" json:"timeCreated"`

 // The time the license record was updated. An RFC 3339 (https://tools.ietf.org/html/rfc3339)-formatted datetime
string.
 TimeUpdated *common.SDKTime `mandatory:"false" json:"timeUpdated"`

 // The product license unit.
 LicenseUnit LicenseUnitEnum `mandatory:"false" json:"licenseUnit,omitempty"`

 // The product
 license name with which the license record is associated.
 ProductLicense *string `mandatory:"false" json:"productLicense"`

 // Simple key-value pair that is applied without any predefined name, type, or scope. Exists for cross-compatibility
only.
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`

 // Usage of system tag keys. These predefined keys are scoped to namespaces.
 // Example: `{"orcl-cloud": {"free-tier-retained": "true"}}`
 SystemTags map[string]map[string]interface{} `mandatory:"false" json:"systemTags"`
}
```

```
func (m LicenseRecord) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called
 during constructing API request process
// Not recommended for calling this function directly
func (m LicenseRecord) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingLifeCycleStateEnum(string(m.LifecycleState)); !ok && m.LifecycleState != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LifecycleState: %s. Supported values
are: %s.", m.LifecycleState, strings.Join(GetLifeCycleStateEnumStringValues(), ",")))
 }

 if _, ok := GetMappingLicenseUnitEnum(string(m.LicenseUnit)); !ok && m.LicenseUnit != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseUnit: %s. Supported values are:
%s.", m.LicenseUnit, strings.Join(GetLicenseUnitEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// CreateProductLicenseRequest wrapper for the CreateProductLicense operation
//
// # See also
//
// Click https://docs.cloud.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/CreateProductLicense.go.html to see an example of how to use
CreateProductLicenseRequest.
type CreateProductLicenseRequest struct {
```

```
 // Details for creating a new product license.
 CreateProductLicenseDetails `contributesTo:"body"`

 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 //
 particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // A token that uniquely identifies a request so it can be retried in case of a timeout or server error without
 // risk of executing that same action again. Retry tokens expire after 24 hours, but can be invalidated before
 // then due to conflicting operations (for example, if a resource has been deleted and purged from the system,
 // then a retry of the original creation request might be rejected).
 OpcRetryToken *string `mandatory:"false" contributesTo:"header" name:"opc-retry-token"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request CreateProductLicenseRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func
 (request CreateProductLicenseRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request CreateProductLicenseRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request CreateProductLicenseRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}
```

```
// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func
 (request CreateProductLicenseRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// CreateProductLicenseResponse wrapper for the CreateProductLicense operation
type CreateProductLicenseResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // The ProductLicense instance
 ProductLicense `presentIn:"body"`

 // For optimistic concurrency control. See `if-match`.
 Etag *string `presentIn:"header" name:"etag"`

 // Unique Oracle-assigned identifier for the asynchronous request. You can use this to query the status of the
asynchronous operation.
 OpcWorkRequestId *string `presentIn:"header" name:"opc-work-request-id"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // Location
 of the resource.
 Location *string `presentIn:"header" name:"location"`
}

func (response CreateProductLicenseResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response CreateProductLicenseResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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```

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APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

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```
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// GetProductLicenseRequest wrapper for the GetProductLicense operation
//
// # See also
//
// Click https://docs.cloud.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/GetProductLicense.go.html to see an example of how to use
GetProductLicenseRequest.
type GetProductLicenseRequest struct {

 // Unique product license identifier.
 ProductLicenseId *string `mandatory:"true" contributesTo:"path" name:"productLicenseId"`

 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle
 about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
```

```
}

func (request GetProductLicenseRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request GetProductLicenseRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request GetProductLicenseRequest) BinaryRequestBody()
 (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request GetProductLicenseRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request GetProductLicenseRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// GetProductLicenseResponse wrapper for the GetProductLicense operation
type GetProductLicenseResponse struct {

 // The underlying http response
 RawResponse *http.Response
```

```
 // The ProductLicense instance
 ProductLicense `presentIn:"body"`

 // For optimistic concurrency control. See
 `if-match`.
 Etag *string `presentIn:"header" name:"etag"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`
}

func (response GetProductLicenseResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response GetProductLicenseResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// ListTopUtilizedProductLicensesRequest wrapper for the ListTopUtilizedProductLicenses operation
//
// # See also
//
// Click https://docs.cloud.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/ListTopUtilizedProductLicenses.go.html to see an example of how to use
ListTopUtilizedProductLicensesRequest.
type ListTopUtilizedProductLicensesRequest struct {

 // The compartment OCID (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/identifiers.htm) used for
the license record, product license, and
 configuration.
 CompartmentId *string `mandatory:"true" contributesTo:"query" name:"compartmentId"`
```

```
 // The maximum number of items to return.
 Limit *int `mandatory:"false" contributesTo:"query" name:"limit"`

 // A token representing the position at which to start retrieving results. This must come from the `opc-next-page`
header field of a previous response.
 Page *string `mandatory:"false" contributesTo:"query" name:"page"`

 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Indicates if the given compartment is the root compartment.
 IsCompartmentIdInSubtree *bool `mandatory:"false" contributesTo:"query" name:"isCompartmentIdInSubtree"`

 // The sort order to use, whether `ASC` or `DESC`.
 SortOrder ListTopUtilizedProductLicensesSortOrderEnum `mandatory:"false" contributesTo:"query"
name:"sortOrder"
 omitEmpty:"true"`

 // Specifies the attribute with which to sort the rules.
 // Default: `totalLicenseUnitsConsumed`
 // * **totalLicenseUnitsConsumed:** Sorts by totalLicenseUnitsConsumed of ProductLicense.
 SortBy ListTopUtilizedProductLicensesSortByEnum `mandatory:"false" contributesTo:"query" name:"sortBy"
omitEmpty:"true"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request ListTopUtilizedProductLicensesRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request ListTopUtilizedProductLicensesRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return
 common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request, extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
```

```
func (request ListTopUtilizedProductLicensesRequest) BinaryRequestBody() (*common.OCIReadSeekCloser,
bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request ListTopUtilizedProductLicensesRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request ListTopUtilizedProductLicensesRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingListTopUtilizedProductLicensesSortOrderEnum(string(request.SortOrder)); !ok &&
request.SortOrder != "" {
  errMessage =
 append(errMessage, fmt.Sprintf("unsupported enum value for SortOrder: %s. Supported values are: %s.",
request.SortOrder, strings.Join(GetListTopUtilizedProductLicensesSortOrderEnumStringValues(), ",")))
 }
 if _, ok := GetMappingListTopUtilizedProductLicensesSortByEnum(string(request.SortBy)); !ok &&
request.SortBy != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for SortBy: %s. Supported values are: %s.",
request.SortBy, strings.Join(GetListTopUtilizedProductLicensesSortByEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// ListTopUtilizedProductLicensesResponse wrapper for the ListTopUtilizedProductLicenses operation
type ListTopUtilizedProductLicensesResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // A list of TopUtilizedProductLicenseCollection instances
 TopUtilizedProductLicenseCollection `presentIn:"body"`

 // Unique Oracle-assigned
 identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`
```

```
 // For pagination of a list of items. When paging through a list, if this header appears in the response,
 // then a partial list might have been returned. Include this value as the `page` parameter for the
 // subsequent GET request to get the next batch of items.
 OpcNextPage *string `presentIn:"header" name:"opc-next-page"`
}

func (response ListTopUtilizedProductLicensesResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response ListTopUtilizedProductLicensesResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}

// ListTopUtilizedProductLicensesSortOrderEnum Enum with underlying type: string
type ListTopUtilizedProductLicensesSortOrderEnum string

// Set of constants representing the allowable values
 for ListTopUtilizedProductLicensesSortOrderEnum
const (
 ListTopUtilizedProductLicensesSortOrderAsc  ListTopUtilizedProductLicensesSortOrderEnum = "ASC"
 ListTopUtilizedProductLicensesSortOrderDesc ListTopUtilizedProductLicensesSortOrderEnum = "DESC"
)

var mappingListTopUtilizedProductLicensesSortOrderEnum =
map[string]ListTopUtilizedProductLicensesSortOrderEnum{
 "ASC":  ListTopUtilizedProductLicensesSortOrderAsc,
 "DESC": ListTopUtilizedProductLicensesSortOrderDesc,
}

var mappingListTopUtilizedProductLicensesSortOrderEnumLowerCase =
map[string]ListTopUtilizedProductLicensesSortOrderEnum{
 "asc":  ListTopUtilizedProductLicensesSortOrderAsc,
 "desc": ListTopUtilizedProductLicensesSortOrderDesc,
}

// GetListTopUtilizedProductLicensesSortOrderEnumValues Enumerates the set of values for
ListTopUtilizedProductLicensesSortOrderEnum
func GetListTopUtilizedProductLicensesSortOrderEnumValues() []ListTopUtilizedProductLicensesSortOrderEnum
{
 values := make([]ListTopUtilizedProductLicensesSortOrderEnum,
 0)
 for _, v := range mappingListTopUtilizedProductLicensesSortOrderEnum {
  values = append(values, v)
 }
 return values
}
```

```
// GetListTopUtilizedProductLicensesSortOrderEnumStringValues Enumerates the set of values in String for
ListTopUtilizedProductLicensesSortOrderEnum
func GetListTopUtilizedProductLicensesSortOrderEnumStringValues() []string {
 return []string{
  "ASC",
  "DESC",
 }
}

// GetMappingListTopUtilizedProductLicensesSortOrderEnum performs case Insensitive comparison on enum value
and return the desired enum
func GetMappingListTopUtilizedProductLicensesSortOrderEnum(val string)
(ListTopUtilizedProductLicensesSortOrderEnum, bool) {
 enum, ok := mappingListTopUtilizedProductLicensesSortOrderEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}

// ListTopUtilizedProductLicensesSortByEnum Enum with underlying type: string
type ListTopUtilizedProductLicensesSortByEnum string

// Set of constants representing the allowable values for ListTopUtilizedProductLicensesSortByEnum
const
 (
 ListTopUtilizedProductLicensesSortByTotallicenseunitsconsumed ListTopUtilizedProductLicensesSortByEnum =
"totalLicenseUnitsConsumed"
)

var mappingListTopUtilizedProductLicensesSortByEnum =
map[string]ListTopUtilizedProductLicensesSortByEnum{
 "totalLicenseUnitsConsumed": ListTopUtilizedProductLicensesSortByTotallicenseunitsconsumed,
}

var mappingListTopUtilizedProductLicensesSortByEnumLowerCase =
map[string]ListTopUtilizedProductLicensesSortByEnum{
 "totallicenseunitsconsumed": ListTopUtilizedProductLicensesSortByTotallicenseunitsconsumed,
}

// GetListTopUtilizedProductLicensesSortByEnumValues Enumerates the set of values for
ListTopUtilizedProductLicensesSortByEnum
func GetListTopUtilizedProductLicensesSortByEnumValues() []ListTopUtilizedProductLicensesSortByEnum {
 values := make([]ListTopUtilizedProductLicensesSortByEnum, 0)
 for _, v := range mappingListTopUtilizedProductLicensesSortByEnum {
  values = append(values, v)
 }
 return values
}
```

```
// GetListTopUtilizedProductLicensesSortByEnumStringValues
 Enumerates the set of values in String for ListTopUtilizedProductLicensesSortByEnum
func GetListTopUtilizedProductLicensesSortByEnumStringValues() []string {
 return []string{
  "totalLicenseUnitsConsumed",
 }
}

// GetMappingListTopUtilizedProductLicensesSortByEnum performs case Insensitive comparison on enum value
and return the desired enum
func GetMappingListTopUtilizedProductLicensesSortByEnum(val string)
(ListTopUtilizedProductLicensesSortByEnum, bool) {
 enum, ok := mappingListTopUtilizedProductLicensesSortByEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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// Code generated. DO NOT EDIT.

// Java Management Service API
//
// API for the Java Management Service. Use this API to view, create, and manage Fleets.
//

package jms

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// JavaLicense Information about a license type for Java.
type JavaLicense struct {

 // Commonly used name for the license type.
 DisplayName *string `mandatory:"true" json:"displayName"`

 // License Type
 LicenseType LicenseTypeEnum `mandatory:"true" json:"licenseType"`

 // Publicly accessible license URL containing the detailed terms and conditions.
 LicenseUrl *string `mandatory:"true" json:"licenseUrl"`
}

func
```

```
 (m JavaLicense) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m JavaLicense) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingLicenseTypeEnum(string(m.LicenseType)); !ok && m.LicenseType != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseType: %s. Supported values are:
%s.", m.LicenseType, strings.Join(GetLicenseTypeEnumStringValues(), ",")))
 }

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
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// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview
(https://docs.cloud.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// CreateProductLicenseDetails Details for creating a new product license.
type CreateProductLicenseDetails struct {

 // The compartment OCID (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/identifiers.htm) where
product licenses are created.
 CompartmentId *string
 `mandatory:"true" json:"compartmentId"`
```

```
 // Specifies if the product license vendor is Oracle or a third party.
 IsVendorOracle *bool `mandatory:"true" json:"isVendorOracle"`

 // Name of the product license.
 DisplayName *string `mandatory:"true" json:"displayName"`

 // The product license unit.
 LicenseUnit LicenseUnitEnum `mandatory:"true" json:"licenseUnit"`

 // The product license vendor name, for example: Microsoft, RHEL, and so on.
 VendorName *string `mandatory:"false" json:"vendorName"`

 // The image details associated with the product license.
 Images []ImageDetails `mandatory:"false" json:"images"`

 // Simple key-value pair that is applied without any predefined name, type, or scope. Exists for cross-compatibility
only.
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags
 map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`
}

func (m CreateProductLicenseDetails) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m CreateProductLicenseDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingLicenseUnitEnum(string(m.LicenseUnit)); !ok && m.LicenseUnit != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseUnit: %s. Supported values are:
%s.", m.LicenseUnit, strings.Join(GetLicenseUnitEnumStringValues(), ",")))
 }

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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```

```
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// Code generated. DO NOT EDIT.

// Identity Service
//
// API for the Identity Dataplane
//

package identitydataplane

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// Permission The representation of Permission
type Permission struct {

 // The name of the permission.
 P *string `mandatory:"true" json:"p"`
}

func (m Permission) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m Permission) ValidateEnumValue() (bool,
 error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Access Governance APIs
//
// Use the Oracle Access Governance API to create, view, and manage GovernanceInstances.
```

```
//

package accessgovernancecp

import (
 "strings"
)

// LicenseTypeEnum Enum with underlying type: string
type LicenseTypeEnum string

// Set of constants representing the allowable values for LicenseTypeEnum
const (
 LicenseTypeNewLicense          LicenseTypeEnum = "NEW_LICENSE"
 LicenseTypeBringYourOwnLicense LicenseTypeEnum = "BRING_YOUR_OWN_LICENSE"
 LicenseTypeAgOracleWorkloads   LicenseTypeEnum = "AG_ORACLE_WORKLOADS"
 LicenseTypeAgOci               LicenseTypeEnum = "AG_OCI"
)

var mappingLicenseTypeEnum
 = map[string]LicenseTypeEnum{
 "NEW_LICENSE":           LicenseTypeNewLicense,
 "BRING_YOUR_OWN_LICENSE": LicenseTypeBringYourOwnLicense,
 "AG_ORACLE_WORKLOADS":    LicenseTypeAgOracleWorkloads,
 "AG_OCI":                LicenseTypeAgOci,
}

var mappingLicenseTypeEnumLowerCase = map[string]LicenseTypeEnum{
 "new_license":           LicenseTypeNewLicense,
 "bring_your_own_license": LicenseTypeBringYourOwnLicense,
 "ag_oracle_workloads":    LicenseTypeAgOracleWorkloads,
 "ag_oci":                LicenseTypeAgOci,
}

// GetLicenseTypeEnumValues Enumerates the set of values for LicenseTypeEnum
func GetLicenseTypeEnumValues() []LicenseTypeEnum {
 values := make([]LicenseTypeEnum, 0)
 for _, v := range mappingLicenseTypeEnum {
  values = append(values, v)
 }
 return values
}

// GetLicenseTypeEnumStringValues Enumerates the set of values in String for LicenseTypeEnum
func GetLicenseTypeEnumStringValues() []string {
 return []string{
  "NEW_LICENSE",
  "BRING_YOUR_OWN_LICENSE",
```

```
  "AG_ORACLE_WORKLOADS",
  "AG_OCI",
 }
}

//
 GetMappingLicenseTypeEnum performs case Insensitive comparison on enum value and return the desired enum
func GetMappingLicenseTypeEnum(val string) (LicenseTypeEnum, bool) {
 enum, ok := mappingLicenseTypeEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview
(https://docs.cloud.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// CreateLicenseRecordDetails The details about the new license record.
type CreateLicenseRecordDetails struct {

 // License record name.
 DisplayName *string `mandatory:"true" json:"displayName"`

 // Specifies if the license record term is perpertual.
 IsPerpetual *bool `mandatory:"true"
 json:"isPerpetual"`

 // Specifies if the license count is unlimited.
 IsUnlimited *bool `mandatory:"true" json:"isUnlimited"`

 // The license record end date in RFC 3339 (https://tools.ietf.org/html/rfc3339)
 // date format.
```

```
 // Example: `2018-09-12`
 ExpirationDate *common.SDKTime `mandatory:"false" json:"expirationDate"`

 // The license record support end date in RFC 3339 (https://tools.ietf.org/html/rfc3339)
 // date format.
 // Example: `2018-09-12`
 SupportEndDate *common.SDKTime `mandatory:"false" json:"supportEndDate"`

 // The number of license units added by a user in a license record.
 // Default 1
 LicenseCount *int `mandatory:"false" json:"licenseCount"`

 // The license record product ID.
 ProductId *string `mandatory:"false" json:"productId"`

 // Simple key-value pair that is applied without any predefined name, type, or scope. Exists for cross-compatibility
only.
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 //
 Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`
}

func (m CreateLicenseRecordDetails) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m CreateLicenseRecordDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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// Code generated. DO NOT EDIT.

package ocvp
```

```
import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// RefreshHcxLicenseStatusRequest wrapper for the RefreshHcxLicenseStatus operation
//
// # See also
//
// Click https://docs.cloud.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/ocvp/RefreshHcxLicenseStatus.go.html to see an example of how to use
RefreshHcxLicenseStatusRequest.
type RefreshHcxLicenseStatusRequest struct {

 // The OCID (https://docs.cloud.oracle.com/Content/General/Concepts/identifiers.htm) of the SDDC.
 SddcId *string `mandatory:"true" contributesTo:"path" name:"sddcId"`

 // A token that uniquely identifies
 a request so it can be retried in case of a timeout or
 // server error without risk of executing that same action again. Retry tokens expire after 24
 // hours, but can be invalidated before then due to conflicting operations (for example, if a resource
 // has been deleted and purged from the system, then a retry of the original creation request
 // may be rejected).
 OpcRetryToken *string `mandatory:"false" contributesTo:"header" name:"opc-retry-token"`

 // For optimistic concurrency control. In the PUT or DELETE call
 // for a resource, set the `if-match` parameter to the value of the
 // etag from a previous GET or POST response for that resource.
 // The resource will be updated or deleted only if the etag you
 // provide matches the resource's current etag value.
 IfMatch *string `mandatory:"false" contributesTo:"header" name:"if-match"`

 // Unique identifier for the request. If you need to contact Oracle about a particular
 // request, please provide the request ID.
 OpcRequestId
 *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request RefreshHcxLicenseStatusRequest) String() string {
 return common.PointerString(request)
}
```

```
// HTTPRequest implements the OCIRequest interface
func (request RefreshHcxLicenseStatusRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request RefreshHcxLicenseStatusRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil,
 false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request RefreshHcxLicenseStatusRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request RefreshHcxLicenseStatusRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// RefreshHcxLicenseStatusResponse wrapper for the RefreshHcxLicenseStatus operation
type RefreshHcxLicenseStatusResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // Unique Oracle-assigned identifier for the asynchronous request. You can use this to query status of the
asynchronous operation.
 OpcWorkRequestId
 *string `presentIn:"header" name:"opc-work-request-id"`
```

```
 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`
}

func (response RefreshHcxLicenseStatusResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response RefreshHcxLicenseStatusResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview
(https://docs.cloud.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// ProductLicense The product license details.
type ProductLicense struct {

 // The product license OCID (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/identifiers.htm).
 Id *string `mandatory:"true" json:"id"`

 // The compartment OCID (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/identifiers.htm)
 where the product license is created.
 CompartmentId *string `mandatory:"true" json:"compartmentId"`

 // The current product license status.
 Status StatusEnum `mandatory:"true" json:"status"`

 // The product license unit.
```

LicenseUnit LicenseUnitEnum `mandatory:"true" json:"licenseUnit"`

// Specifies whether the vendor is Oracle or a third party.
IsVendorOracle *bool `mandatory:"true" json:"isVendorOracle"`

// License record name
DisplayName *string `mandatory:"true" json:"displayName"`

// Status description for the current product license status.
StatusDescription *string `mandatory:"false" json:"statusDescription"`

// The total number of licenses available for the product license, calculated by adding up all the license counts for active license records associated with the product license.
TotalActiveLicenseUnitCount *int `mandatory:"false" json:"totalActiveLicenseUnitCount"`

// The current product license state.
LifecycleState
LifeCycleStateEnum `mandatory:"false" json:"lifecycleState,omitempty"`

// The number of license units consumed. Updated after each allocation run.
TotalLicenseUnitsConsumed *float64 `mandatory:"false" json:"totalLicenseUnitsConsumed"`

// The number of license records associated with the product license.
TotalLicenseRecordCount *int `mandatory:"false" json:"totalLicenseRecordCount"`

// The number of active license records associated with the product license.
ActiveLicenseRecordCount *int `mandatory:"false" json:"activeLicenseRecordCount"`

// Specifies whether or not the product license is oversubscribed.
IsOverSubscribed *bool `mandatory:"false" json:"isOverSubscribed"`

// Specifies if the license unit count is unlimited.
IsUnlimited *bool `mandatory:"false" json:"isUnlimited"`

// The vendor of the ProductLicense
VendorName *string `mandatory:"false" json:"vendorName"`

// The time the product license was created. An RFC 3339 (https://tools.ietf.org/html/rfc3339)-formatted datetime string.
TimeCreated *common.SDKTime `mandatory:"false" json:"timeCreated"`

// The time the product license was updated. An RFC 3339 (https://tools.ietf.org/html/rfc3339)-formatted datetime string.
TimeUpdated *common.SDKTime `mandatory:"false" json:"timeUpdated"`

// The images associated with the product license.
Images []ImageResponse `mandatory:"false" json:"images"`

```
 // Simple key-value pair that is applied without any predefined name, type, or scope. Exists for cross-compatibility
only.
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`

 // Usage of system tag keys. These predefined keys are scoped to namespaces.
 // Example: `{"orcl-cloud": {"free-tier-retained": "true"}}`
 SystemTags
 map[string]map[string]interface{} `mandatory:"false" json:"systemTags"`
}

func (m ProductLicense) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m ProductLicense) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingStatusEnum(string(m.Status)); !ok && m.Status != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for Status: %s. Supported values are: %s.",
m.Status, strings.Join(GetStatusEnumStringValues(), ",")))
 }
 if _, ok := GetMappingLicenseUnitEnum(string(m.LicenseUnit)); !ok && m.LicenseUnit != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseUnit: %s. Supported values are:
%s.", m.LicenseUnit, strings.Join(GetLicenseUnitEnumStringValues(), ",")))
 }

 if
 _, ok := GetMappingLifeCycleStateEnum(string(m.LifecycleState)); !ok && m.LifecycleState != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LifecycleState: %s. Supported values
are: %s.", m.LifecycleState, strings.Join(GetLifeCycleStateEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
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// Code generated. DO NOT EDIT.
```

```
// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview
(https://docs.cloud.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// UpdateProductLicenseDetails Updates the product license object (only allows image updates).
type UpdateProductLicenseDetails struct {

 // The image details associated with the product license.
 Images []ImageDetails `mandatory:"true" json:"images"`

 // Simple key-value pair
 that is applied without any predefined name, type, or scope. Exists for cross-compatibility only.
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`
}

func (m UpdateProductLicenseDetails) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m UpdateProductLicenseDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
```

```
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// UpdateLicenseRecordRequest wrapper for the UpdateLicenseRecord operation
//
// # See also
//
// Click https://docs.cloud.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/UpdateLicenseRecord.go.html to see an example of how to use
UpdateLicenseRecordRequest.
type UpdateLicenseRecordRequest struct {

 // Unique license record identifier.
 LicenseRecordId *string `mandatory:"true" contributesTo:"path" name:"licenseRecordId"`

 // Details to update a license record entity.
 UpdateLicenseRecordDetails `contributesTo:"body"`

 //
 For optimistic concurrency control. In the PUT or DELETE call for a resource, set the `if-match`
 // parameter to the value of the etag from a previous GET or POST response for that resource.  The resource
 // will be updated or deleted only if the etag you provide matches the resource's current etag value.
 IfMatch *string `mandatory:"false" contributesTo:"header" name:"if-match"`

 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request UpdateLicenseRecordRequest) String() string {
 return common.PointerString(request)
}
```

```
// HTTPRequest implements the OCIRequest
 interface
func (request UpdateLicenseRecordRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request UpdateLicenseRecordRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request UpdateLicenseRecordRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func
 (request UpdateLicenseRecordRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// UpdateLicenseRecordResponse wrapper for the UpdateLicenseRecord operation
type UpdateLicenseRecordResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // The LicenseRecord instance
 LicenseRecord `presentIn:"body"`

 // For optimistic concurrency control. See `if-match`.
```

```
 Etag *string `presentIn:"header" name:"etag"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`
}

func (response UpdateLicenseRecordResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response UpdateLicenseRecordResponse) HTTPResponse()
 *http.Response {
 return response.RawResponse
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview
(https://docs.cloud.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// BulkUploadLicenseRecordsDetails Details required for bulk uploading of license records.
type BulkUploadLicenseRecordsDetails struct {

 // The compartment OCID (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/identifiers.htm) where
license records are created.
 CompartmentId
 *string `mandatory:"true" json:"compartmentId"`

 // Name of the file that is being uploaded.
 FileName *string `mandatory:"true" json:"fileName"`
```

```
 // The file to be uploaded.
 FileContent *string `mandatory:"true" json:"fileContent"`
}

func (m BulkUploadLicenseRecordsDetails) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m BulkUploadLicenseRecordsDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
```

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// Code generated. DO NOT EDIT.

```
// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License Manager Overview
(https://docs.cloud.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// LicenseRecordSummary The license record summary.
type LicenseRecordSummary struct {

 // The license record OCID (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/identifiers.htm).
 Id *string `mandatory:"true" json:"id"`

 // License record display name. Avoid entering
```

```
confidential information.
DisplayName *string `mandatory:"true" json:"displayName"`

// Specifies if the license count is unlimited.
IsUnlimited *bool `mandatory:"true" json:"isUnlimited"`

// Specifies if the license record term is perpertual.
IsPerpetual *bool `mandatory:"true" json:"isPerpetual"`

// The product license OCID (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/identifiers.htm) with
which the license record is associated.
ProductLicenseId *string `mandatory:"false" json:"productLicenseId"`

// The compartment OCID (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/identifiers.htm) where the
license record is created.
CompartmentId *string `mandatory:"false" json:"compartmentId"`

// The license record product ID.
ProductId *string `mandatory:"false" json:"productId"`

// The number of license record units added by the user for the given license record.
// Default 1
LicenseCount *int `mandatory:"false" json:"licenseCount"`

// The
license record end date in RFC 3339 (https://tools.ietf.org/html/rfc3339) format.
// date format.
// Example: `2018-09-12`
ExpirationDate *common.SDKTime `mandatory:"false" json:"expirationDate"`

// The license record support end date in RFC 3339 (https://tools.ietf.org/html/rfc3339) format.
// date format.
// Example: `2018-09-12`
SupportEndDate *common.SDKTime `mandatory:"false" json:"supportEndDate"`

// The time the license record was created. An RFC 3339 (https://tools.ietf.org/html/rfc3339)-formatted datetime
string.
TimeCreated *common.SDKTime `mandatory:"false" json:"timeCreated"`

// The time the license record was updated. An RFC 3339 (https://tools.ietf.org/html/rfc3339)-formatted datetime
string.
TimeUpdated *common.SDKTime `mandatory:"false" json:"timeUpdated"`

// The current license record state.
LifecycleState LifeCycleStateEnum `mandatory:"false" json:"lifecycleState,omitempty"`

// The product license unit.
LicenseUnit LicenseUnitEnum `mandatory:"false"
```

```
 json:"licenseUnit,omitempty"`

 // The product license name with which the license record is associated.
 ProductLicense *string `mandatory:"false" json:"productLicense"`

 // Simple key-value pair that is applied without any predefined name, type, or scope. Exists for cross-compatibility
only.
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`

 // Usage of system tag keys. These predefined keys are scoped to namespaces.
 // Example: `{"orcl-cloud": {"free-tier-retained": "true"}}`
 SystemTags map[string]map[string]interface{} `mandatory:"false" json:"systemTags"`
}

func (m LicenseRecordSummary) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an
 unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m LicenseRecordSummary) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if _, ok := GetMappingLifeCycleStateEnum(string(m.LifecycleState)); !ok && m.LifecycleState != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LifecycleState: %s. Supported values
are: %s.", m.LifecycleState, strings.Join(GetLifeCycleStateEnumStringValues(), ",")))
 }
 if _, ok := GetMappingLicenseUnitEnum(string(m.LicenseUnit)); !ok && m.LicenseUnit != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseUnit: %s. Supported values are:
%s.", m.LicenseUnit, strings.Join(GetLicenseUnitEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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// Code generated. DO NOT EDIT.
```

```
// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview
(https://docs.cloud.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "strings"
)

// LicenseUnitEnum Enum with underlying type: string
type LicenseUnitEnum string

// Set of constants representing the allowable values for LicenseUnitEnum
const (
 LicenseUnitOcpu          LicenseUnitEnum = "OCPU"
 LicenseUnitNamedUserPlus LicenseUnitEnum = "NAMED_USER_PLUS"
 LicenseUnitProcessors    LicenseUnitEnum = "PROCESSORS"
)

var
 mappingLicenseUnitEnum = map[string]LicenseUnitEnum{
 "OCPU":           LicenseUnitOcpu,
 "NAMED_USER_PLUS": LicenseUnitNamedUserPlus,
 "PROCESSORS":      LicenseUnitProcessors,
}

var mappingLicenseUnitEnumLowerCase = map[string]LicenseUnitEnum{
 "ocpu":           LicenseUnitOcpu,
 "named_user_plus": LicenseUnitNamedUserPlus,
 "processors":      LicenseUnitProcessors,
}

// GetLicenseUnitEnumValues Enumerates the set of values for LicenseUnitEnum
func GetLicenseUnitEnumValues() []LicenseUnitEnum {
 values := make([]LicenseUnitEnum, 0)
 for _, v := range mappingLicenseUnitEnum {
  values = append(values, v)
 }
 return values
}

// GetLicenseUnitEnumStringValues Enumerates the set of values in String for LicenseUnitEnum
func GetLicenseUnitEnumStringValues() []string {
```

```
 return []string{
  "OCPU",
  "NAMED_USER_PLUS",
  "PROCESSORS",
 }
}

// GetMappingLicenseUnitEnum performs case Insensitive comparison on enum value and return the desired enum
func GetMappingLicenseUnitEnum(val
 string) (LicenseUnitEnum, bool) {
 enum, ok := mappingLicenseUnitEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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// Code generated. DO NOT EDIT.

// Oracle Content Management API
//
// Oracle Content Management is a cloud-based content hub to drive omni-channel content management and
accelerate experience delivery
//

package oce

import (
 "strings"
)

// LicenseTypeEnum Enum with underlying type: string
type LicenseTypeEnum string

// Set of constants representing the allowable values for LicenseTypeEnum
const (
 LicenseTypeNew     LicenseTypeEnum = "NEW"
 LicenseTypeByol    LicenseTypeEnum = "BYOL"
 LicenseTypePremium LicenseTypeEnum = "PREMIUM"
 LicenseTypeStarter LicenseTypeEnum = "STARTER"
)

var mappingLicenseTypeEnum = map[string]LicenseTypeEnum{
 "NEW":     LicenseTypeNew,
 "BYOL":
    LicenseTypeByol,
 "PREMIUM": LicenseTypePremium,
 "STARTER": LicenseTypeStarter,
```

```
}

var mappingLicenseTypeEnumLowerCase = map[string]LicenseTypeEnum{
 "new":     LicenseTypeNew,
 "byol":    LicenseTypeByol,
 "premium": LicenseTypePremium,
 "starter": LicenseTypeStarter,
}

// GetLicenseTypeEnumValues Enumerates the set of values for LicenseTypeEnum
func GetLicenseTypeEnumValues() []LicenseTypeEnum {
 values := make([]LicenseTypeEnum, 0)
 for _, v := range mappingLicenseTypeEnum {
  values = append(values, v)
 }
 return values
}

// GetLicenseTypeEnumStringValues Enumerates the set of values in String for LicenseTypeEnum
func GetLicenseTypeEnumStringValues() []string {
 return []string{
  "NEW",
  "BYOL",
  "PREMIUM",
  "STARTER",
 }
}

// GetMappingLicenseTypeEnum performs case Insensitive comparison on enum value and return the desired enum
func GetMappingLicenseTypeEnum(val string) (LicenseTypeEnum, bool) {
 enum, ok := mappingLicenseTypeEnumLowerCase[strings.ToLower(val)]
 return
 enum, ok
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)
```

```
// UpdateProductLicenseRequest wrapper for the UpdateProductLicense operation
//
// # See also
//
// Click https://docs.cloud.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/UpdateProductLicense.go.html to see an example of how to use
UpdateProductLicenseRequest.
type UpdateProductLicenseRequest struct {

 // Unique product license identifier.
 ProductLicenseId *string `mandatory:"true" contributesTo:"path" name:"productLicenseId"`

 // The list of images that needs to be updated.
 UpdateProductLicenseDetails
 `contributesTo:"body"`

 // For optimistic concurrency control. In the PUT or DELETE call for a resource, set the `if-match`
 // parameter to the value of the etag from a previous GET or POST response for that resource.  The resource
 // will be updated or deleted only if the etag you provide matches the resource's current etag value.
 IfMatch *string `mandatory:"false" contributesTo:"header" name:"if-match"`

 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request UpdateProductLicenseRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements
 the OCIRequest interface
func (request UpdateProductLicenseRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}
```

```
// BinaryRequestBody implements the OCIRequest interface
func (request UpdateProductLicenseRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request UpdateProductLicenseRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this
 function directly
func (request UpdateProductLicenseRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// UpdateProductLicenseResponse wrapper for the UpdateProductLicense operation
type UpdateProductLicenseResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // The ProductLicense instance
 ProductLicense `presentIn:"body"`

 // For optimistic concurrency control. See `if-match`.
 Etag *string `presentIn:"header" name:"etag"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`
}

func (response UpdateProductLicenseResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response UpdateProductLicenseResponse)
```

```
 HTTPResponse() *http.Response {
 return response.RawResponse
}
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// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// GetLicenseMetricRequest wrapper for the GetLicenseMetric operation
//
// # See also
//
// Click https://docs.cloud.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/GetLicenseMetric.go.html to see an example of how to use
GetLicenseMetricRequest.
type GetLicenseMetricRequest struct {

 // The compartment OCID (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/identifiers.htm) used for
the license record, product license, and configuration.
 CompartmentId *string `mandatory:"true" contributesTo:"query"
 name:"compartmentId"`

 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Indicates if the given compartment is the root compartment.
 IsCompartmentIdInSubtree *bool `mandatory:"false" contributesTo:"query" name:"isCompartmentIdInSubtree"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request GetLicenseMetricRequest) String() string {
 return common.PointerString(request)
}
```

```
// HTTPRequest implements the OCIRequest interface
func (request GetLicenseMetricRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if
 err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request GetLicenseMetricRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request GetLicenseMetricRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request GetLicenseMetricRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

//
 GetLicenseMetricResponse wrapper for the GetLicenseMetric operation
type GetLicenseMetricResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // The LicenseMetric instance
 LicenseMetric `presentIn:"body"`

 // For optimistic concurrency control. See `if-match`.
 Etag *string `presentIn:"header" name:"etag"`
```

```
 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`
}

func (response GetLicenseMetricResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response GetLicenseMetricResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
```

1.1752 prometheus 0.46.1-0.20230818184859-4d8e380269da

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1.1754 aliyun-aliyun-oss-go-sdk 2.2.7+incompatible

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1.1755 psqlodbc 16.0.0

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connected
got SUCCESS_WITH_INFO
00000=NOTICE: test notice: foo
got SUCCESS_WITH_INFO
00000=NOTICE: test notice:

foofoofoofo

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1.1756 unixodbc 2.3.12

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/**********

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)

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1.1758 component-base 0.27.5

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1.1762 mft 4.25.0-62

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```
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    - ".*\\.sh"
    - unittest/config.*
    - unittest/expected.*
    - ".*\\.adb"
    - ".*\\.asm"
    - ".*\\.bmp"
    - ".*\\.bin"
    - ".*\\.BIN"
    - ".*\\.cfg"
    - ".*\\.com"
    - ".*\\.conf"
    - ".*\\.cproject"
    - ".*\\.crt"
    - ".*\\.css"
    - ".*\\.csv"
    - ".*\\.dat"
    - ".*\\.db"
    - ".*\\.dec"
    - ".*\\.def"
    - ".*\\.dev"
    - ".*dirs"
    - ".*\\.dox"
    - ".*\\.dsc"
    - ".*\\.dyn"
    - ".*\\.ext"
    - ".*\\.ggo"
    - ".*\\.gif"
    - ".*\\.gz"
    - ".*\\.ico"
    - ".*\\.in"
    - ".*\\.inf"
    - ".*\\.int"
    - ".*\\.IMG"
    - ".*\\.INI"
    - ".*\\.jpg"
    - ".*\\.json"
    - ".*\\.lex"
    - ".*\\.log"
    - ".*\\.lst"
    - ".*\\.Lattice"
    - ".*\\.make"
    - ".*\\.manual"
    - ".*\\.map"
    - ".*\\.md"
    -
".*\\.msi"
    - ".*\\.m4"
```

```
      - ".*MAKE_TEST_CMD"
      - ".*\\.pem"
      - ".*\\.pdf"
      - ".*\\.php"
      - ".*\\.png"
      - ".*\\.pri"
      - ".*\\.pro"
      - ".*\\.ps1"
      - ".*\\.pyx"
      - ".*\\.pxd"
      - ".*qmake"
      - ".*\\.qrc"
      - ".*\\.qss"
      - ".*qt4_6_env"
      - ".*qt4_7_env"
      - ".*readme"
      - ".*README"
      - ".*\\.rc"
      - ".*\\.rtf"
      - ".*\\.scss"
      - ".*\\.sln"
      - ".*sources"
      - ".*SOURCES"
      - ".*startemmap"
      - ".*stopemmap"
      - ".*\\.str"
      - ".*\\.tcl"
      - ".*\\.ttf"
      - ".*\\.txt"
      - ".*\\.TXT"
      - ".*\\.ui"
      - ".*\\.user"
      - ".*\\.vcxproj"
      - ".*\\.whl"
      - ".*\\.win"
      - ".*\\.wxs"
      - ".*\\.xls"
      - ".*\\.y"
      - ".*\\.zip"
      - ".*\\.1"
      - "COPYING"
      - "LICENSE"
      - "configure.ac"


  bsd:
    include:
      - .*
```

exclude:
- common/autocomplete/mft_autocomplete_skeleton
- common/autocomplete/mft_base_autocomplete
- cmdparser/my_getopt.c
- cmdparser/my_getopt.h
- debian
- ext_libs
- license_map.yaml
- kernel/mstflint_kernel.spec

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1.1763 linux-kernel 3.10.87

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```
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
*  http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather
 lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*     as needed. This means that data must always be copied to create
*     the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*     Fix is simple: make large buffers large enough to hold entire
```

```
*     SDU, and leave <small_buffer_data> bytes empty at the start. Then
*     copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*     buffers. This is done by 2 things:
*       1) skb->destructor / skb->atm.recycle_buffer
*           combined, allow nicstar_free_rx_skb to be called to
*           recycle large data buffers
*       2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*     details.
*
*
*
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*
* M. Welsh, 6 July 1996
*
*
*/
```

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for his work on the initial Linux DVB driver

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Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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for patching the cable card decoder driver

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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
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at revision 3a0bb77429bd3a61596f5e8a3172445844342120

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- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
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- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
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Schemas for Java EE Deployment Descriptors:
- javaee_5.xsd

- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
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The original XML Schemas for Java EE Deployment Descriptors:
- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd

- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
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Schemas for Java EE Deployment Descriptors:
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- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd

- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
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- javaee_web_services_client_1_3.xsd
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1.1770 go-git-go-billy 5.5.0

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1.1771 google.golang.org/genproto/googleapis/rpc 0.0.0-20230822172742-b8732ec3820d

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1.1783 kubernetes-cliruntime 0.28.0

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1.1784 libatomic 12.3.0-1ubuntu1~22.04

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This is the Debian GNU/Linux prepackaged version of the GNU compiler
collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C,
Objective-C++, and Modula-2 compilers, documentation, and support
libraries. In addition, Debian provides the gm2 compiler, either in
the same source package, or built from a separate same source package.
Packaging is done by the Debian GCC Maintainers
<debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
svn://gcc.gnu.org/svn/gcc/ (for prereleases)
ftp://sourceware.org/pub/newlib/ (for newlib)
git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-12 source package is taken from the git gcc-12-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language,
library, and documentation as follows:

Language	Compiler package	Library package	Documentation
Ada			
	gnat-12	libgnat-12	gnat-12-doc
C	gcc-12		gcc-12-doc
C++	g++-12	libstdc++6	libstdc++6-12-doc
D	gdc-12		
Fortran 95	gfortran-12	libgfortran5	gfortran-12-doc
Go	gccgo-12	libgo0	
Objective C	gobjc-12	libobjc4	
Objective C++	gobjc++-12		
Modula-2	gm2-12	libgm2	

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent
C++			libstdc++6-12-dbg	libstdc++6-12-pic
D		libphobos-12-dev		

Additional packages include:

All languages:

libgcc1, libgcc2, libgcc4	GCC intrinsics (platform-dependent)
gcc-12-base	Base files common to all compilers
gcc-12-soft-float	Software floating point (ARM only)
gcc-12-source	The sources with patches

Ada:

libgnat-util12-dev, libgnat-util12	GNAT version library

C:

cpp-12, cpp-12-doc	GNU C Preprocessor
libssp0-dev, libssp0	GCC stack smashing protection library
libquadmath0	Math routines for the __float128 type
fixincludes	Fix non-ANSI header files

C, C++ and Fortran 95:

libgomp1-dev, libgomp1	GCC OpenMP (GOMP) support library
libitm1-dev, libitm1	GNU Transactional Memory Library

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D:
gdc-12 GNU D Compiler
libphobos-12-dev D standard runtime library

The D source package is made up of the following components.

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The Phobos standard runtime library:
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1.1786 libx11 1.7.5-1ubuntu0.3

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* /opt/cola/permits/1819579326_1697102483.2666457/0/debianutils-5-7-orig-1-tar-gz/debianutils-5.7/po4a/po/de.po
* /opt/cola/permits/1819579326_1697102483.2666457/0/debianutils-5-7-orig-1-tar-gz/debianutils-5.7/po4a/po/pt.po
* /opt/cola/permits/1819579326_1697102483.2666457/0/debianutils-5-7-orig-1-tar-gz/debianutils-5.7/po4a/po/pl.po
* /opt/cola/permits/1819579326_1697102483.2666457/0/debianutils-5-7-orig-1-tar-gz/debianutils-5.7/po4a/po/sl.po
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* /opt/cola/permits/1819579326_1697102483.2666457/0/debianutils-5-7-orig-1-tar-gz/debianutils-5.7/po4a/de/savelog.8
* /opt/cola/permits/1819579326_1697102483.2666457/0/debianutils-5-7-orig-1-tar-gz/debianutils-5.7/po4a/de/which.1
* /opt/cola/permits/1819579326_1697102483.2666457/0/debianutils-5-7-orig-1-tar-gz/debianutils-5.7/po4a/de/translator_german.add
* /opt/cola/permits/1819579326_1697102483.2666457/0/debianutils-5-7-orig-1-tar-gz/debianutils-5.7/po4a/de/add-shell.8
* /opt/cola/permits/1819579326_1697102483.2666457/0/debianutils-5-7-orig-1-tar-gz/debianutils-5.7/po4a/de/remove-shell.8
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/* run-parts: run a bunch of scripts in a directory
*
* Debian run-parts program
* Copyright (C) 1996 Jeff Noxon <jeff@router.patch.net>,
* Copyright (C) 1996-1999 Guy Maor <maor@debian.org>
* Copyright (C) 2002-2020 Clint Adams <clint@debian.org>
*
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*
* Based on run-parts.pl version 0.2, Copyright (C) 1994 Ian Jackson.
*
*/

Found in path(s):
* /opt/cola/permits/1819579326_1697102483.2666457/0/debianutils-5-7-orig-1-tar-gz/debianutils-5.7/run-parts.c
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* /opt/cola/permits/1819579326_1697102483.2666457/0/debianutils-5-7-orig-1-tar-gz/debianutils-5.7/po4a/es/run-parts.8
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Found in path(s):
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/* ischroot: detect if running in a chroot

*
* Debian ischroot program
* Copyright (C) 2011 Aurelien Jarno <aurel32@debian.org>
* Copyright (C) 2015 Andreas Henriksson <andreas@fatal.se>
*
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*/

Found in path(s):
* /opt/cola/permits/1819579326_1697102483.2666457/0/debianutils-5-7-orig-1-tar-gz/debianutils-5.7/ischroot.c
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Found in path(s):
* /opt/cola/permits/1819579326_1697102483.2666457/0/debianutils-5-7-orig-1-tar-gz/debianutils-5.7/po4a/fr/run-parts.8

1.1792 libpamg 1.5.2-6+deb12u1

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1.1793 psycopg 2.9.9

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1.1794 libpng 1.6.37

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
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org.apache.taglibs:taglibs-standard-spec
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org.apache.tomcat:tomcat-jasper
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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1.1804 gcc-11 11.4.0-1ubuntu1~22.04

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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02110-1301, USA. */
<!-- Creator : groff version 1.20.1 -->
<!-- CreationDate: Fri Jan 14 19:57:50 2011 -->

```
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta name="generator" content="groff -Thtml, see www.gnu.org">
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<meta name="Content-Style" content="text/css">
<link rel="stylesheet" type="text/css" href="texi2tr.css" />
<title>GNU Modula-2</title>
</head>

<body>
 <!-- site wide top running header menu -->

 <ul id="overview">
   <li class="home">
     HOME_HREF
   </li>
   <li class="release">
     11_HREF
   </li>

   <li>
     <a href="news.html" title="News">News</a>
   </li>
   <li>
     <a href="development.html" title="Development">Development</a>
   </li>
   <li>
     <a href="community.html" title="Community">Community</a>
   </li>
 </ul>

 <div id="header">
   <h1>
     <span style="display:inline-block; vertical-align:middle">
 <img
 src="200px-Heckert_GNU_white.png" alt="Heckert_GNU_white.png">
     </span>
     <span style="display:inline-block; vertical-align:middle; font-size: 50px">
 GNU Modula-2
     </span>
   </h1>

   <!-- homepage tab menu -->

   <div id="tabmenu">
     <ul id="tab">
```

```
 <li><a href="about.html"><span>About</span></a></li>
 <li><a href="download.html"><span>Download</span></a></li>
 <li><a href="release.html"><span>Latest Release</span></a></li>
 <li class="selected"><a href="license.html"><span>License</span></a></li>
 <li><a href="platforms.html"><span>Platforms</span></a></li>
 <li><a href="users.html"><span>Users</span></a></li>
    </ul>
  </div>
 </div>

<div id="page">
 <div class="plain">
   <h2>The home of the GNU Modula-2 compiler</h2>
   <p>The compiler is held under the GNU Public Licence v3.</p>
   <p>The ISO and PIM libraries are under the GPL v3.1 with GCC runtime extensions.  Copies of the
     licences can be found on the
     <a href="http://www.gnu.org/licenses">GNU</a>
 web site.</p>
 </div>
</div>
</body>
</html>
```

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This is the Debian GNU/Linux prepackaged version of the GNU compiler
collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C,
Objective-C++, and Modula-2 compilers, documentation, and support
libraries. In addition, Debian provides the gm2 compiler, either in
the same source package, or built from a separate same source package.
Packaging is done by the Debian GCC Maintainers
<debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
svn://gcc.gnu.org/svn/gcc/ (for prereleases)
ftp://sourceware.org/pub/newlib/ (for newlib)
git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-11 source package is taken from the SVN gcc-11-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language,
library, and documentation as follows:

Language	Compiler package	Library package	Documentation
Ada	gnat-11	libgnat-11	gnat-11-doc
BRIG	gccbrig-11	libhsail-rt0	
C	gcc-11		gcc-11-doc
C++	g++-11	libstdc++6	libstdc++6-11-doc
D	gdc-11		
Fortran 95	gfortran-11	libgfortran5	gfortran-11-doc
Go	gccgo-11	libgo0	
Objective C	gobjc-11	libobjc4	
Objective C++	gobjc++-11		
Modula-2	gm2-11	libgm2	

For some language run-time libraries, Debian provides source files,
development files, debugging symbols and libraries containing position-
independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent
C++			libstdc++6-11-dbg	libstdc++6-11-pic
D	libphobos-11-dev			

Additional packages include:

All languages:
libgcc1,
libgcc2, libgcc4 GCC intrinsics (platform-dependent)
gcc-11-base Base files common to all compilers
gcc-11-soft-float Software floating point (ARM only)
gcc-11-source The sources with patches

Ada:
libgnat-util11-dev, libgnat-util11 GNAT version library

C:
cpp-11, cpp-11-doc GNU C Preprocessor
libssp0-dev, libssp0 GCC stack smashing protection library
libquadmath0 Math routines for the __float128 type
fixincludes Fix non-ANSI header files

C, C++ and Fortran 95:
libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library
libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can
also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libatomic
- libdecnumber
- libgomp
- libitm
- libssp
- libstdc++-v3
- libobjc
- libgfortran
- The libgnat-11 Ada support library and libgnat-util11 library.
- Various config files in gcc/config/ used in runtime libraries.
- libvtv

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D:

gdc-11	GNU D Compiler
libphobos-11-dev	D standard runtime library

The D source package is made up of the following components.

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The DMD Compiler implementation of the D programming language:
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The Phobos standard runtime library:
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DRuntime: Runtime Library for the D Programming Language
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1.1805 google-golang-org-grpc 1.56.3

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1.1807 mdlayher-ethtool 0.1.0

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1.1808 genetlink 1.3.2

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1.1809 ema-qdisc 1.0.0

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1.1810 wifi 0.1.0

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1.1811 sercand-kuberesolver 5.1.1

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1.1812 logrus 1.9.3

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1.1813 go-systemd 22.5.0

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1.1815 python-decorator 4.4.2-0ubuntu1

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1.1816 hwloc 2.7.0-2ubuntu1

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usage_usec 13481
user_usec 6740
system_usec 6740
some avg10=0.00 avg60=0.00 avg300=0.00 total=0
full avg10=0.00 avg60=0.00 avg300=0.00 total=0

populated 1
frozen 0
nr_descendants 0
nr_dying_descendants 0
1338
1339
1341
some avg10=0.00 avg60=0.00 avg300=0.00 total=1101
full avg10=0.00 avg60=0.00 avg300=0.00 total=1101
0
1734
1338
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1735
1737
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domain
usage_usec 11616
user_usec 5808
system_usec 5808
some avg10=0.00 avg60=0.00 avg300=0.00 total=0

1.1817 ncurses 6.4-4

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1.1818 github.com/distribution/reference 0.5.0

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1.1819 winston 3.3.3

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1.1822 py 1.11.0

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1.1823 sg3-utils 1.46-1ubuntu0.22.04.1

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Douglas Gilbert
10th April 2012

1.1824 python-certifi 2021.10.08

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $
 $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.1825 github.com/matttproud/golang_protobuf_extensions/v2 2.0.0

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1.1826 common 0.45.0

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1.1828 python-certifi 2020.6.20

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $
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1.1829 jetty 9.4.35.v20201120

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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1.1830 paramiko 2.7.1

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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following Apache Tomcat jars, all ASL2
 licensed.

org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.1833 google-golang-org-grpc 1.58.3

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1.1835 github.com/sagikazarmark/slog-shim 0.1.0

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1.1836 controller-runtime 0.16.3

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1.1838 combined-stream 1.0.8

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1.1839 delayed-stream 1.0.0

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delayed-stream

Buffers events from a stream until you are ready to handle them.

Installation

```bash
npm install delayed-stream
```

Usage

The following example shows how to write a http echo server that delays its response by 1000 ms.

```javascript
var DelayedStream = require('delayed-stream');
var http = require('http');

http.createServer(function(req, res) {
 var delayed = DelayedStream.create(req);

 setTimeout(function() {
   res.writeHead(200);
   delayed.pipe(res);
 }, 1000);
});
```

If you are not using `Stream#pipe`, you can also manually release the buffered events by calling `delayedStream.resume()`:

```javascript
var delayed = DelayedStream.create(req);

setTimeout(function() {
 // Emit all buffered events and resume underlaying source
 delayed.resume();
}, 1000);
```

Implementation

In order to use this meta stream properly, here are a few things you should know about the implementation.

Event Buffering / Proxying

All events of the `source` stream are hijacked by overwriting the `source.emit` method. Until node implements a catch-all event listener, this is the only way.

However, delayed-stream still continues to emit all events it captures on the `source`, regardless of whether you have released the delayed stream yet or not.

Upon creation, delayed-stream captures all `source` events and stores them in an internal event buffer. Once `delayedStream.release()` is called, all

buffered events are emitted on the `delayedStream`, and the event buffer is cleared. After that, delayed-stream merely acts as a proxy for the underlaying source.

Error handling

Error events on `source` are buffered / proxied just like any other events. However, `delayedStream.create` attaches a no-op `'error'` listener to the `source`. This way you only have to handle errors on the `delayedStream` object, rather than in two places.

Buffer limits

delayed-stream provides
 a `maxDataSize` property that can be used to limit
the amount of data being buffered. In order to protect you from bad `source` streams that don't react to `source.pause()`, this feature is enabled by default.

API

DelayedStream.create(source, [options])

Returns a new `delayedStream`. Available options are:

* `pauseStream`
* `maxDataSize`

The description for those properties can be found below.

delayedStream.source

The `source` stream managed by this object. This is useful if you are passing your `delayedStream` around, and you still want to access properties on the `source` object.

delayedStream.pauseStream = true

Whether to pause the underlaying `source` when calling `DelayedStream.create()`. Modifying this property afterwards has no effect.

delayedStream.maxDataSize = 1024 * 1024

The amount of data to buffer before emitting an `error`.

If the underlaying source is emitting `Buffer` objects, the `maxDataSize` refers to bytes.

If the underlaying source
 is emitting JavaScript strings, the size refers to
characters.

If you know what you are doing, you can set this property to `Infinity` to
disable this feature. You can also modify this property during runtime.

delayedStream.dataSize = 0

The amount of data buffered so far.

delayedStream.readable

An ECMA5 getter that returns the value of `source.readable`.

delayedStream.resume()

If the `delayedStream` has not been released so far, `delayedStream.release()`
is called.

In either case, `source.resume()` is called.

delayedStream.pause()

Calls `source.pause()`.

delayedStream.pipe(dest)

Calls `delayedStream.resume()` and then proxies the arguments to `source.pipe`.

delayedStream.release()

Emits and clears all events that have been buffered up so far. This does not
resume the underlaying source, use `delayedStream.resume()` instead.

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Found in path(s):
* /opt/cola/permits/1830745388_1698153819.4839122/0/fis-components-delayed-stream-1-0-0-0-g42ac44e-1-tar-gz/fis-components-delayed-stream-3c3d86f/Readme.md

1.1840 has-flag 3.0.0

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1.1841 array-flatten 1.1.1

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1.1842 depd 2.0.0

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1.1843 mkdirp 3.0.1

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1.1844 form-data 4.0.0

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1.1845 fresh 0.5.2

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1.1846 github.com/containerd/log 0.1.0

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1.1847 containerd-log 0.1.0

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1.1848 cert-chain-resolver 0.0.0-20221221105603-fcedb00c5b30

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1.1849 github.com/zakjan/cert-chain-resolver 0.0.0-20221221105603-fcedb00c5b30

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1.1850 jetty 9.4.53.v20231009

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* javax.servlet:javax.servlet-api

* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api
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org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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1.1851 supports-color 5.5.0

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1.1854 jersey-client 2.41

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Source Code
The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jersey

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1.1860 bsd-mailx 8.1.2-0.20180807cvs-2build2

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```
Mail Command   Description
------------------------ -------------------------------------------
t [message list]  type message(s).
more [message list]  read message(s), through the $PAGER
n    goto and type next message.
e [message list]  edit message(s).
f [message list]  give head lines of messages.
d [message list]  delete message(s).
s [message list] <file>  append message(s) to file.
u [message list]  undelete message(s).
R [message list]  reply to message sender(s).
r [message list]  reply to message sender(s) and all recipients.
p [message list]  print message list.
pre [message list]  make messages go back to /var/mail.
m <recipient list>  mail to specific recipient(s).
```

```
q    quit, saving unresolved messages in mbox.
x    quit, do not remove system mailbox.
h    print out active message headers.
!    shell escape.
| [msglist] command  pipe message(s) to shell command.
pi [msglist] command  pipe message(s) to shell command.
cd [directory]   chdir to directory or home if none given
fi
 <file>   switch to file (%=system inbox, %user=user's
    system inbox).  + searches in your folder
    directory for the file.
set variable[=value]  set Mail variable.

A [message list] consists of integers, ranges of same, :status, /subject, or
user names separated by spaces.  If omitted, Mail uses the current message.
The pipe command doesn't accept user names or subject message list, since
that might conflict with the command string.

A <recipient list> consists of recipient addresses or aliases separated by
spaces.  Aliases are defined in .mailrc in your home directory.

<file> is a full or relative pathname, +folder, % (system inbox), %user
(specified user's system inbox), # (previous file), & (mbox file), or an
expression understood by ${SHELL:-/bin/sh} -c 'echo ...'.
.\" $OpenBSD: mail3.nr,v 1.4 2004/06/04 00:04:54 jmc Exp $
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.i .mailrc
file. If, as in the example above, your folder directory does not
begin with a `/,'
.i Mail
will assume that your folder directory is to be found starting from
your home directory. Thus, if your home directory is
.b /home/person
the above example told
.i Mail
to find your folder directory in
.b /home/person/letters .
.pp
Anywhere a file name is expected, you can use a folder name, preceded
with `+.' For example, to put a message into a folder with the
.b save
command, you can use:
.(l
save +classwork
.)l
to save the current message in the
.i classwork
folder. If the

.i classwork
folder does not yet exist, it will be created. Note that messages
which are saved with the
.b save
command are automatically removed from your system mailbox.
.pp
In order to make a
 copy of a message in a folder without causing
that message to be removed from your system mailbox, use the
.b copy
command, which is identical in all other respects to the
.b save
command. For example,
.(l
copy +classwork
.)l
copies the current message into the
.i classwork
folder and leaves a copy in your system mailbox.
.pp
The
.b folder
command
can be used to direct
.i Mail
to the contents of a different folder.
For example,
.(l
folder +classwork
.)l
directs
.i Mail
to read the contents of the
.i classwork
folder. All of the commands that you can use on your system
mailbox are also applicable to folders, including
.b type ,
.b delete ,
and
.b reply .
To inquire which folder you are currently editing, use simply:
.(l
folder
.)l
.pp
To list your current set of folders, use the
.b folders
command.

.pp
To start
.i Mail
reading one of your folders, you can use the
.b \-f
option described in section 2. For example:
.(l
% Mail \-f +classwork
.)l
will cause
.i Mail
to read your
.i classwork
folder
 without looking at your system mailbox.
.\" $OpenBSD: mail7.nr,v 1.3 2003/06/03 02:56:11 millert Exp $
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.\"
.\" @(#)mail7.nr 8.1 (Berkeley) 6/8/93
.\"
.sh 1 "Format of messages"

.pp
This section describes the format of messages.
Messages begin with a
.i from
line, which consists of the word
.q From
followed by a user name, followed by anything, followed by
a date in the format returned by the
.i ctime
library routine described
in section 3 of the Unix Programmer's
Manual. A possible
.i ctime
format date is:
.(l
Tue Dec 1 10:58:23 1981
.)l
The
.i ctime
date may be optionally followed by a single space and a
time zone indication, which
should be three capital letters, such as PDT.
.pp
Following the
.i from
line are zero or more
.i "header field"
lines.
Each header field line is of the form:
.(l
name: information
.)l
.i Name
can be anything, but only certain header fields are recognized as
having any meaning. The recognized header fields are:
.i article-id ,
.i bcc ,
.i cc ,
.i from ,
.i reply-to ,
.i sender ,
.i subject ,
and
.i to .
Other header fields are also significant to other systems; see,
for example, the current Arpanet message standard for much more
information on this topic.
A header field can be continued onto following lines by making the

first character on the following line a space or tab character.
.pp
If any headers are present, they must be followed by a blank line.
The part that follows
is called the
.i body
of the message, and must be ASCII text, not containing null characters.
Each line in the message body must be no longer than 512 characters and
terminated with an ASCII newline character.
If binary data must be passed through the mail system, it is suggested
that this data be encoded in a system which encodes six bits into
a printable character (i.e.: uuencode).
For example, one could use the upper and lower case letters, the digits,
and the characters comma and period to make up the 64 characters.
Then, one can send a 16-bit binary number
as three characters. These characters should be packed into lines,
preferably lines about 70 characters long as long lines are transmitted
more efficiently.
.pp
The message delivery system always adds a blank line to the end of
each message. This blank line must not be deleted.
.pp
The UUCP message delivery system sometimes adds a blank line to
the end of a message each time it is forwarded through a machine.
.pp
It should
be noted that some network transport protocols enforce
limits to the lengths of messages.

The following ~ escapes are defined:
~b name ... Add names to "blind" Cc: list.
~c name ... Add names to Cc: field.
~d Read dead.letter into message.
~e Invoke text editor on partial message.
~F messages Same as ~f, but includes all headers.
~f messages Read in messages.
~h Edit the header fields.
~M messages Same as ~m, but includes all headers.
~m messages Read in messages, right shifted by a tab.
~p Print (show) the message buffer.
~q Abort message; optionally save copy to ~/dead.letter.
~r file | ~< file Read a file into the message buffer.
~s string Set Subject: field to string.
~t name ... Add names to To: field.
~v Invoke display editor on message.
~w filename Write message to file.
~x Abort message; no copy is saved.
~? Print a brief summary of tilde escapes.

~!command Execute shell command.
~|command Pipe message through command.
~:command | ~_command Execute a Mail command.
~~string Quote
 a single tilde.
~.   Simulate end of file on input.

.\" $OpenBSD: mail1.nr,v 1.4 2004/06/04 00:04:54 jmc Exp $
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.\" @(#)mail1.nr 8.1 (Berkeley) 6/8/93
.\"
.sh 1 Introduction
.pp
.i Mail
provides a simple and friendly environment for sending and receiving mail.
It divides incoming mail into
its constituent messages and allows the user to deal with them
in any order. In addition, it provides a set of
.i ed -\c
like commands for manipulating

messages and sending mail.
.i Mail
offers the user simple editing capabilities to ease the composition
of outgoing messages, as well as providing the ability to define and send
to names which address groups of users. Finally,
.i Mail
is able to send and receive messages across such networks as the
ARPANET, UUCP, and Berkeley network.
.pp
This document describes how to use the
.i Mail
program to send and receive messages. The reader is not assumed to
be familiar with other message handling systems, but should be
familiar with the \s-2UNIX\s0**
.(f
** \s-1UNIX\s0 is a trademark of Bell Laboratories.
.)f
shell, the text editor, and some of the common \s-2UNIX\s0 commands.
.q "The \s-2UNIX\s0 Programmer's Manual,"
.q "An Introduction to Csh,"
and
.q "Text Editing with Ex and Vi"
can be consulted for more information on these topics.
.pp
A word of explanation is in order here concerning the name
.i Mail :
the original UNIX mail program was known as
.i /bin/mail .
The BSD mail
program was called
.i Mail
to differentiate it from the older mail program.
.i /bin/mail
is not included in OpenBSD so there is no ambiguity and the BSD
mail program is installed as
.i /usr/bin/mail ;
.i /usr/bin/Mail
is simply a link for backwards compatibility.
To further confuse the issue, a second link was retained for
compatibility with SystemV systems,
.i mailx .
In this document, we use the original name, `Mail',
to refer to any of these.
.pp
Here is how messages are handled:
the mail system accepts incoming
.i messages
for you from other people

and collects them in a file, called your
.i "system mailbox" .
When you log in, the system notifies you if there are any messages
waiting in your system mailbox. If you are a
.i csh
user, you will be notified when new mail arrives if you inform
the shell of the location of your mailbox. On OpenBSD,
your system mailbox is located in the directory /var/mail
in a file with your login name. If your login name is
.q sam,
then you can make
.i
 csh
notify you of new mail by including the following line in your .cshrc
file:
.(l
set mail=/var/mail/sam
.)l
When you read your mail using
.i Mail ,
it reads your system mailbox and separates that file into the
individual messages that have been sent to you. You can then
read, reply to, delete, or save these messages.
Each message is marked with its author and the date they sent it.
.\" $OpenBSD: mail2.nr,v 1.5 2004/06/04 00:04:54 jmc Exp $
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.\"
.\" @(#)mail2.nr 8.2 (Berkeley) 5/16/94
.\"
.sh 1 "Common usage"
.pp
The
.i Mail
command has two distinct usages, according to whether one
wants to send or receive mail. Sending mail is simple: to send a
message to a user whose login name is, say,
(lqroot,(rq
use the shell
command:
.(l
% Mail root
.)l
then type your
 message. When you reach the end of the message, type
an EOT (Control-D) at the beginning of a line, which will cause
.i Mail
to echo *(lqEOT*(rq and return you to the Shell. When the user you sent mail
to next logs in, he will receive the message:
.(l
You have mail.
.)l
to alert him to the existence of your message.
.pp
If, while you are composing the message
you decide that you do not wish to send it after all, you can
abort the letter with a <Control-C>. Typing a single <Control-C>
causes
.i Mail
to print
.(l
(Interrupt -- one more to kill letter)
.)l
Typing a second
<Control-C> causes
.i Mail
to save your partial letter on the file
.q dead.letter
in your home directory and abort the letter.
Once you have

sent mail to someone, there is no way to undo the act, so be
careful.
.pp
The message your recipient reads will consist of the message you
typed, preceded by a line telling who sent the message (your login name)
and the date and time it
was sent.
.pp
If you want to send the
 same message to several other people, you can list
their login names on the command line.
Thus,
.(l
% Mail sam bob john
Tuition fees are due next Friday. Don't forget!!
<Control-D>
EOT
%
.)l
will send the reminder to sam, bob, and john.
.pp
If, when you log in, you see the message,
.(l
You have mail.
.)l
you can read the mail by typing simply:
.(l
% Mail
.)l
.i Mail
will respond by typing its version number and date and then listing
the messages you have waiting. Then it will type a prompt and await
your command. The messages are assigned numbers starting with 1 *- you
refer to the messages with these numbers.
.i Mail
keeps track of which messages are
.i new
(have been sent since you last read your mail) and
.i read
(have been read by you). New messages have an
.b N
next to them in the header listing and old, but unread messages have
a
.b U
next to them.
.i Mail
keeps track of new/old and read/unread messages by putting a
header field called

.q Status
into your messages.
.pp
To look
at a specific message, use the
.b type
command, which may be abbreviated to simply
.b t .
For example, if you had the following messages:
.(l
N 1 root Wed Sep 21 09:21 "Tuition fees"
N 2 sam Tue Sep 20 22:55
.)l
you could examine the first message by giving the command:
.(l
type 1
.)l
which might cause
.i Mail
to respond with, for example:
.(l
Message 1:
From root Wed Sep 21 09:21:45 1978
Subject: Tuition fees
Status: R

Tuition fees are due next Wednesday. Don't forget!!

.)l
Many
.i Mail
commands that operate on messages take a message number as an
argument like the
.b type
command. For these commands, there is a notion of a current
message. When you enter the
.i Mail
program, the current message is initially the first one. Thus,
you can often omit the message number and use, for example,
.(l
t
.)l
to type the current message. As a further shorthand, you can type a message
by simply giving its message number. Hence,
.(l
1
.)l
would type the first message.

.pp
Frequently,
it is useful to read the messages in your mailbox in order,
one after another. You can read the next message in
.i Mail
by simply typing a newline. As a special case, you can type a newline
as your first command to
.i Mail
to type the first message.
.pp
If, after reading a message, you wish to immediately send a reply,
you can do so with the
.b reply
command.
.b Reply ,
like
.b type ,
takes a message number as an argument.
.i Mail
then begins a message addressed to the user who sent you the message.
You may then type in your letter in reply, followed by a <Control-D>
at the beginning of a line, as before.
.i Mail
will type EOT, then type the ampersand prompt to indicate its readiness
to accept another command. In our example, if, after typing the
first message, you wished to reply to it, you might give the command:
.(l
reply
.)l
.i Mail
responds by typing:
.(l
To: root
Subject: Re: Tuition fees
.)l
and waiting for you to enter your letter.
You are now in the message collection
mode described at the beginning
of this section and
.i Mail
will gather up your message up to a <Control-D>.
Note that it copies the subject
header from the original message. This is useful in that correspondence
about a particular matter will tend to retain the same subject heading,
making it easy to recognize. If there are other header fields in
the message, the information found will also be used.
For example, if the letter had a
.q "To:"

header listing several recipients,
.i Mail
would arrange to send your reply to the same people as well.
Similarly, if the original message contained a
.q "Cc:"
(carbon copies to) field,
.i Mail
would send your reply to
.i those
users, too.
.i Mail
is careful, though, not too send the message to
.i you ,
even if you appear in the
.q "To:"
or
.q "Cc:"
field, unless you ask to be included explicitly. See section 4 for more
details.
.pp
After typing in your letter, the dialog with
.i Mail
might look like the following:
.(l
reply
To: root
Subject:
 Tuition fees

Thanks for the reminder
EOT
&
.)l
.pp
The
.b reply
command is especially useful for sustaining extended conversations
over the message system, with other
.q listening
users receiving copies of the conversation. The
.b reply
command can be abbreviated to
.b r .
.pp
Sometimes you will receive a message that has been sent to
several people and wish to reply
.i only
to the person who sent it.

.b Reply
with a capital
.b R
replies to a message, but sends a copy to the sender only.
.pp
If you wish, while reading your mail, to send a message to someone,
but not as a reply to one of your messages, you can send the message
directly with the
.b mail
command, which takes as arguments the names of the recipients you wish
to send to. For example, to send a message to
.q frank,
you would do:
.(l
mail frank
This is to confirm our meeting next Friday at 4.
EOT
&
.)l
The
.b mail
command can be abbreviated to
.b m .
.pp
Normally, each message you receive is saved in the file
.i mbox
in
 your login directory at the time you leave
.i Mail .
Often,
however, you will not want to save a particular message you
have received because it is only of passing interest. To avoid
saving a message in
.i mbox
you can delete it using the
.b delete
command. In our example,
.(l
delete 1
.)l
will prevent
.i Mail
from saving message 1 (from root) in
.i mbox .
In addition to not saving deleted messages,
.i Mail
will not let
you type them, either. The effect is to make the message disappear

altogether, along with its number. The
.b delete
command can be abbreviated to simply
.b d .
.pp
Many features of
.i Mail
can be tailored to your liking with the
.b set
command. The
.b set
command has two forms, depending on whether you are setting
a
.i binary
option or a
.i valued
option.
Binary options are either on or off. For example, the
.q ask
option informs
.i Mail
that each time you send a message, you want it to prompt you for
a subject header, to be included in the message.
To set the
.q
 ask
option, you would type
.(l
set ask
.)l
.pp
Another useful
.i Mail
option is
.q hold.
Unless told otherwise,
.i Mail
moves the messages from your system mailbox to the file
.i mbox
in your home directory when you leave
.i Mail .
If you want
.i Mail
to keep your letters in the system mailbox instead, you can set the
.q hold
option.
.pp
Valued options are values which

.i Mail
uses to adapt to your tastes. For example, the
.q SHELL
option tells
.i Mail
which shell you like to use, and is specified by
.(l
set SHELL=/bin/csh
.)l
for example. Note that no spaces are allowed in
.q "SHELL=/bin/csh."
A complete list of the
.i Mail
options appears in section 5.
.pp
Another important valued option is
.q crt.
If you use a fast video terminal, you will find that when you
print long messages, they fly by too quickly for you to read them.
With the
.q crt
option, you can make
.i Mail
print any message larger than a given number of lines by sending
it through a paging program. This program is specified
 by the
valued option \fBPAGER\fP.
If \fBPAGER\fP is not set, a default paginator is used.
For example, most CRT users with 24-line screens should do:
.(l
set crt=24
.)l
to paginate messages that will not fit on their screens.
In the default state, \fImore\fP (default paginator) prints a screenful of
information, then types ``byte XXX", where `XXX' represents the number
of bytes paginated.
Type a space to see the next screenful.
.pp
Another adaptation to user needs that
.i Mail
provides is that of
.i aliases .
An alias is simply a name which stands for one or more
real user names.
.i Mail
sent to an alias is really sent to the list of real users
associated with it. For example, an alias can be defined for the
members of a project, so that you can send mail to the whole project

by sending mail to just a single name. The
.b alias
command in
.i Mail
defines an alias. Suppose that the users in a project are
named Sam, Sally, Steve, and Susan. To define an alias called
.q project
for
 them, you would use the
.i Mail
command:
.(l
alias project sam sally steve susan
.)l
The
.b alias
command can also be used to provide a convenient name for someone
whose user name is inconvenient. For example, if a user named
.q "Bob Anderson"
had the login name
.q anderson,"
you might want to use:
.(l
alias bob anderson
.)l
so that you could send mail to the shorter name,
.q bob.
.pp
While the
.b alias
and
.b set
commands allow you to customize
.i Mail ,
they have the drawback that they must be retyped each time you enter
.i Mail .
To make them more convenient to use,
.i Mail
always looks for two files when it is invoked. It first reads
a system wide file
.q /etc/mail.rc,
then a user specific file,
.q .mailrc,
which is found in the user's home directory.
The system wide file
is maintained by the system administrator and
contains
.b set

commands that are applicable to all users of the system.
The
.q .mailrc
file is usually used by each user to set options the way he likes
and define
individual aliases.
For example, my .mailrc file looks like this:
.(l
set ask nosave SHELL=/bin/csh
.)l
As you can see, it is possible to set many options in the
same
.b set
command. The
.q nosave
option is described in section 5.
.pp
Mail aliasing is implemented
at the system-wide level
by the mail delivery
system
.i sendmail .
These aliases are stored in the file /etc/mail/aliases and are
accessible to all users of the system.
The lines in /etc/mail/aliases are of
the form:
.(l
alias: name*<1*>, name*<2*>, name*<3*>
.)l
where
.i alias
is the mailing list name and the
.i name*<i*>
are the members of the list. Long lists can be continued onto the next
line by starting the next line with a space or tab. Remember that you
must execute the command
.i newaliases
(as superuser)
after editing /etc/mail/aliases since the delivery system
uses an indexed file created by
.i newaliases .
.pp
We have seen that
.i Mail
can be invoked with command line arguments which are people
to send
the message to, or with no arguments to read mail.
Specifying the

.rb -f
flag on the command line causes
.i Mail
to read messages from a file other than your system mailbox.
For example, if you have a collection of messages in
the file
.q letters
you can use
.i Mail
to read them with:
.(l
% Mail -f letters
.)l
You can use all
the
.i Mail
commands described in this document to examine, modify, or delete
messages from your
.q letters
file, which will be rewritten when you leave
.i Mail
with the
.b quit
command described below.
.pp
Since mail that you read is saved in the file
.i mbox
in your home directory by default, you can read
.i mbox
in your home directory by using simply
.(l
% Mail -f
.)l
.pp
Normally, messages that you examine using the
.b type
command are saved in the file
.q mbox
in your home directory if you leave
.i Mail
with the
.b quit
command described below.
If you wish to retain a message in your system mailbox
you can use the
.b preserve
command to tell
.i Mail

to leave
it there.
The
.b preserve
command accepts a list of message numbers, just like
.b type
and may be abbreviated to
.b pre .
.pp
Messages in your system mailbox that you do not examine are
normally retained in your system mailbox automatically.
If you wish to have such a message saved in
.i mbox
without reading it, you may use the
.b mbox
command to have them so saved. For example,
.(l
mbox 2
.)l
in our example would cause the second message (from sam)
to be saved in
.i mbox
when the
.b quit
command is executed.
.b Mbox
is also the way to direct messages to your
.i mbox
file if you have set the
.q hold
option described above.
.b Mbox
can be abbreviated to
.b mb .
.pp
When you have perused all the messages of interest, you can leave
.i Mail
with the
.b quit
command, which saves the messages you have typed but not
deleted in the file
.i mbox
in your login directory. Deleted messages are discarded irretrievably,
and messages left untouched are preserved in your system mailbox so
that you
will see them the next time you type:
.(l
% Mail

.)l
The
.b quit
command can be abbreviated to simply
.b q .
.pp
If you wish for some reason to leave
.i Mail
quickly without altering either your system mailbox or
.i mbox ,
you can type the
.b x
command (short for
.b exit),
which will immediately return you to the Shell without changing anything.
.pp
If, instead, you want to execute a Shell command without leaving
.i Mail ,
you
can type the command preceded by an exclamation point, just as in the
text editor. Thus, for instance:
.(l
!date
.)l
will print the current date without leaving
.i Mail .
.pp
Finally, the
.b help
command is available to print out a brief summary of the
.i Mail
commands, using only the single character command abbreviations.
.\" $OpenBSD: mail9.nr,v 1.8 2009/07/29 18:15:38 martynas Exp $
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.\" @(#)mail9.nr 8.2 (Berkeley) 5/16/94
.\"
.sh 1 "Summary of commands, options, and escapes"
.pp
This section gives a quick summary of the
.i Mail
commands, binary and valued options, and tilde escapes.
.pp
The following table describes the commands:
.TS
center ;
c ci
lb l.
Command Description
_
+ Same as \fBnext\fP
- Back
 up to previous message
? Print brief summary of \fIMail\fP commands
! Single command escape to shell
Print Type message with ignored fields
Reply Reply to author of message only
Respond Same as \fBReply\fP
Type Type message with ignored fields
alias Define an alias as a set of user names
alternates List other names you are known by
chdir Change working directory, home by default
copy Copy a message to a file or folder
delete Delete a list of messages
dp Same as \fBdt\fP
dt Delete current message, type next message
edit Edit a list of messages
else Start of else part of conditional; see \fBif\fP
endif End of conditional statement; see \fBif\fP

exit Leave mail without changing anything
file Interrogate/change current mail file
folder Same as \fBfile\fP
folders List the folders in your folder directory
from List headers of a list of messages
headers List current window of messages
help Same as \fB?\fP
hold Same as \fBpreserve\fP
if Conditional execution of \fIMail\fP commands
ignore Set/examine
 list of ignored header fields
inc Incorporate new messages
list List valid \fIMail\fP commands
mail Send mail to specified names
mbox Arrange to save a list of messages in \fImbox\fP
more Invoke pager on message list
next Go to next message and type it
preserve Arrange to leave list of messages in system mailbox
print Print messages
quit Leave \fIMail\fP; update system mailbox, \fImbox\fP as appropriate
reply Compose a reply to a message
respond Same as \fBreply\fP
retain Supersedes \fBignore\fP
save Append messages, headers included, on a file
saveignore List of headers to ignore when using the \fBsave\fP command
saveretain List of headers to retain when using the \fBsave\fP command
set Set binary or valued options
shell Invoke an interactive shell
size Prints out size of message list
source Read \fImail\fP commands from a file
top Print first so many (5 by default) lines of list of messages
type Same as \fBprint\fP
unalias Remove alias
undelete Undelete list of messages
unread Marks
 list of messages as not been read
unset Undo the operation of a \fBset\fP
visual Invoke visual editor on a list of messages
write Append messages to a file, don't include headers
xit Same as \fBexit\fP
z Scroll to next/previous screenful of headers
.TE
.(b
.pp
The following table describes the options. Each option is
shown as being either a binary or valued option.
.TS
center;

c ci ci
l ci l.
Option Type Description
_
EDITOR valued Pathname of editor for ~e and \fBedit\fP
LISTER valued Pathname of directory lister
MBOX valued Pathname of the \fImbox\fP file
PAGER valued Pathname of pager for \fBPrint\fP, \fBprint\fP, \fBType\fP and \fBtype\fP
SHELL valued Pathname of shell for \fBshell\fP, ~! and \fB!\fP
VISUAL valued Pathname of screen editor for ~v, \fBvisual\fP
append binary Always append messages to end of \fImbox\fP
ask binary Prompt user for Subject: field when sending
askbcc binary Prompt user for additional BCc's at end of message
askcc binary Prompt user for
additional Cc's at end of message
autoinc binary Automatically incorporate new mail
autoprint binary Print next message after \fBdelete\fP
crt valued Minimum number of lines before using \fBPAGER\fP
debug binary Print out debugging information
dot binary Accept . alone on line to terminate message input
escape valued Escape character to be used instead of\ \ ~
folder valued Directory to store folders in
hold binary Hold messages in system mailbox by default
ignore binary Ignore <Control-C> while sending mail
ignoreeof binary Don't terminate letters/command input with \fB^D\fP
indentprefix valued String used for indenting messages
keep binary Don't unlink system mailbox when empty
keepsave binary Don't delete \fBsave\fPd messages by default
metoo binary Include sending user in aliases
noheader binary Suppress initial printing of version and headers
nosave binary Don't save partial letter in \fIdead.letter\fP
Replyall binary Reverses the sense of the \fB[Rr]eply\fP commands
quiet binary Suppress
printing of \fIMail\fP version/message numbers
record valued File to save all outgoing mail in
screen valued Size of window of message headers for \fBz\fP, etc.
searchheaders binary Search string for message headers
sendmail valued Choose alternate mail delivery system
toplines valued Number of lines to print in \fBtop\fP
verbose binary Invoke sendmail with the \fB\-v\fP flag
.TE
.)b
.(b
.pp
The following table summarizes the tilde escapes available
while sending mail.
.TS
center;

c ci ci
l li l.
Escape Arguments Description
_
~b name ... Add names to "blind" Cc: list.
~c name ... Add names to Cc: field.
~d Read \fIdead.letter\fP into message.
~e Invoke text editor on partial message.
~F messages Same as ~f, but includes all headers.
~f messages Read in messages.
~h Edit the header fields.
~M messages Same as ~m, but includes all headers.
~m messages
Read in messages, right shifted by a tab.
~p Print (show) the message buffer.
~q Abort message; optionally save copy to ~/dead.letter.
~r file | ~< file Read a file into the message buffer.
~s string Set Subject: field to \fIstring\fP.
~t name ... Add names to To: field.
~v Invoke display editor on message.
~w filename Write message to file.
~x Abort message; no copy is saved.
~? Print a brief summary of tilde escapes.
~!command Execute shell command.
~|command Pipe message through \fIcommand\fP.
~:command | ~_command Execute a \fIMail\fP command.
~~string Quote a single tilde.
~. Simulate end of file on input.
.TE
.)b
.(b
.pp
The following table shows the command line flags that
.i Mail
accepts:
.TS
center;
c c
l a.
Flag Description
_
\-b \fIlist\fP Send blind carbon
copies to \fIlist\fP.
\-c \fIlist\fP Send carbon copies to \fIlist\fP
\-d Turn on debugging
\-f [\fIname\fP] Show messages in \fIname\fP or \fI~/mbox\fP
\-I Force \fIMail\fP to run in interactive mode
\-i Ignore tty interrupt signals

```
\-N Suppress the initial printing of headers
\-n Inhibit reading of /etc/mail.rc
\-s \fIsubject\fP Use \fIsubject\fP as subject in outgoing mail
\-T \fIfile\fP Article-id's of read/deleted messages to \fIfile\fP
\-u \fIuser\fP Read \fIuser\fP's mail instead of your own
\-v  Invoke sendmail with the \fB\-v\fP flag
.TE
.)b
.lp
Notes:
.b \-d
and
.b \-T
are not for human use.
.\" $OpenBSD: mail5.nr,v 1.6 2008/11/03 18:20:45 jmc Exp $
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.\" @(#)mail5.nr 8.2 (Berkeley) 5/16/94
.\"
.sh 1 "Additional features"
.pp
```

This section describes some additional commands useful for
reading your mail, setting options, and handling lists of messages.
.sh 2 "Message lists"
.pp
Several
.i Mail
commands accept a list of messages as an argument.
Along with
.b type
and
.b
 delete ,
described in section 2,
there is the
.b from
command, which prints the message headers associated with the
message list passed to it.
The
.b from
command is particularly useful in conjunction with some of the
message list features described below.
.pp
A
.i "message list"
consists of a list of message numbers, ranges, and names,
separated by spaces or tabs. Message numbers may be either
decimal numbers, which directly specify messages, or one of the
special characters
.q "^" ,
.q "." ,
or
.q "$"
to specify the first relevant, current, or last
relevant message, respectively.
.i Relevant
here means, for most commands
.q "not deleted"
and
.q "deleted"
for the
.b undelete
command.
.pp
A range of messages consists of two message numbers (of the form
described in the previous paragraph) separated by a dash.
Thus, to print the first four messages, use
.(l
type 1\-4

.)l
and to print all the messages from the current message to the last
message, use
.(l
type .\-$
.)l
.pp
A
.i name
is
 a user name. The user names given in the message list are
collected together and each message selected by other means
is checked to make sure it was sent by one of the named users.
If the message consists entirely of user names, then every
message sent by one of those users that is
.i relevant
(in the sense described earlier)
is selected. Thus, to print every message sent to you by
.q root,
do
.(l
type root
.)l
.pp
As a shorthand notation, you can specify simply
.q *
to get every
.i relevant
(same sense)
message. Thus,
.(l
type *
.)l
prints all undeleted messages,
.(l
delete *
.)l
deletes all undeleted messages, and
.(l
undelete *
.)l
undeletes all deleted messages.
.pp
You can search for the presence of a word in subject lines with
.b / .
For example, to print the headers of all messages that contain the
word
.q PASCAL,

do:
.(l
from /pascal
.)l
Note that subject searching ignores upper/lower case differences.
.sh 2 "List of commands"
.pp
This section describes all the
.i Mail
commands
 available when
receiving mail.
.ip "\fB\-\fP\ \ "
The
.rb \-
command goes to the previous message and prints it. The
.rb \-
command may be given a decimal number
.i n
as an argument, in which case the
.i n th
previous message is gone to and printed.
.ip "\fB?\fP\ \ "
Prints a brief summary of commands.
.ip "\fB!\fP\ \ "
Used to preface a command to be executed by the shell.
.ip "\fBPrint\fP\ \ "
Like
.b print ,
but also print out ignored header fields. See also
\fBprint\fP, \fBignore\fP, and \fBretain\fP.
\fBPrint\fP can be abbreviated to \fBP\fP.
.ip "\fBReply\fP or \fBRespond\fP\ \ "
Note the capital \fBR\fP in the name.
Frame a reply to one or more messages.
The reply (or replies if you are using this on multiple messages)
will be sent ONLY to the person who sent you the message
(respectively, the set of people who sent the messages you are
replying to).
You can
add people using the \fB~t\fP, \fB~c\fP, and \fB~b\fP
tilde escapes. The subject in your reply is formed by prefacing
 the
subject in the original message with
.q "Re:"
unless it already began thus.
If the original message included a
.q "reply-to"

header field, the reply will go
.i only
to the recipient named by
.q "reply-to."
You type in your message using the same conventions available to you
through the
.b mail
command.
The
.b Reply
command is especially useful for replying to messages that were sent
to enormous distribution groups when you really just want to
send a message to the originator. Use it often.
\fBReply\fP (and \fBRespond\fP) can be abbreviated to \fBR\fP.
.ip "\fBType\fP\ \ "
Identical to the
.b Print
command.
\fBType\fP can be abbreviated to \fBT\fP.
.ip "\fBalias\fP\ \ "
Define a name to stand for a set of other names.
This is used when you want to send messages to a certain
group of people and want to avoid retyping their names.
For example
.(l
alias project john sue willie kathryn
.)l
creates an alias
.i project
which expands to the four people John, Sue, Willie, and Kathryn.
If
 no arguments are given, all currently-defined aliases are printed.
If one argument is given, that alias is printed (if it exists).
\fBAlias\fP can be abbreviated to \fBa\fP.
.ip "\fBalternates\fP\ \ "
If you have accounts on several machines, you may find it convenient
to use /etc/mail/aliases on all the machines except one to direct
your mail to a single account.
The
.b alternates
command is used to inform
.i Mail
that each of these other addresses is really
.i you .
.i Alternates
takes a list of user names and remembers that they are all actually you.
When you
.b reply

to messages that were sent to one of these alternate names,
.i Mail
will not bother to send a copy of the message to this other address (which
would simply be directed back to you by the alias mechanism).
If
.i alternates
is given no argument, it lists the current set of alternate names.
.b Alternates
is usually used in the .mailrc file.
\fBAlternates\fP can be abbreviated to \fBalt\fP.
.ip "\fBchdir\fP\ \ "
The
.b chdir
command
 allows you to change your current directory.
.b Chdir
takes a single argument, which is taken to be the pathname of
the directory to change to. If no argument is given,
.b chdir
changes to your home directory.
\fBChdir\fP can be abbreviated to \fBc\fP.
.ip "\fBcopy\fP\ \ "
The
.b copy
command does the same thing that
.b save
does, except that it does not mark the messages it is used on
for deletion when you quit.
\fBCopy\fP can be abbreviated to \fBco\fP.
.ip "\fBdelete\fP\ \ "
Deletes a list of messages. Deleted messages can be reclaimed
with the
.b undelete
command.
\fBDelete\fP can be abbreviated to \fBd\fP.
.ip "\fBdp\fP or \fBdt\fP\ \ "
These
commands delete the current message and print the next message.
They are useful for quickly reading and disposing of mail.
If there is no next message, \fIMail\fP says ``No more messages."
.ip "\fBedit\fP\ \ "
To edit individual messages using the text editor, the
.b edit
command is provided. The
.b edit
command takes a list
 of messages as described under the
.b type

command and processes each by writing it into the file
Message\c
.i x
where
.i x
is the message number being edited and executing the text editor on it.
When you have edited the message to your satisfaction, write the message
out and quit, upon which
.i Mail
will read the message back and remove the file.
.b Edit
can be abbreviated to
.b e .
.ip "\fBelse\fP\ \ "
Marks the end of the then-part of an
.b if
statement and the beginning of the
part to take effect if the condition of the
.b if
statement is false.
.ip "\fBendif\fP\ \ "
Marks the end of an
.b if
statement.
.ip "\fBexit\fP or \fBxit\fP\ \ "
Leave
.i Mail
without updating the system mailbox or the file you were reading.
Thus, if you accidentally delete several messages, you can use
.b exit
to avoid scrambling your mailbox.
\fBExit\fP can be abbreviated to \fBex\fP or \fBx\fP.
.ip "\fBfile\fP\ \ "
The same as
.b folder .
\fBFile\fP can be abbreviated to \fBfi\fP.
.ip "\fBfolders\fP\ \ "
List
 the names of the folders in your folder directory.
.ip "\fBfolder\fP\ \ "
The
.b folder
command switches to a new mail file or folder. With no arguments, it
tells you which file you are currently reading. If you give
it an argument, it will write out changes (such as deletions)
you have made in the current file and read the new file.
Some special conventions are recognized for the name:
.(b

.TS
center;
c c
l a.
Name Meaning
_
Previous file read
% Your system mailbox
%name \fIName\fP's system mailbox
& Your ~/mbox file
+folder A file in your folder directory
.TE
.)b
\fBFolder\fP can be abbreviated to \fBfo\fP.
.ip "\fBfrom\fP\ \ "
The
.b from
command takes a list of messages and prints out the header lines for each one;
hence
.(l
from joe
.)l
is the easy way to display all the message headers from *(lqjoe.*(rq
\fBFrom\fP can be abbreviated to \fBf\fP.
.ip "\fBheaders\fP\ \ "
When you start up
.i Mail
to read your mail, it lists the message headers that you have.
These headers
 tell you who each message is from, when they were
received, how many lines and characters each message is, and the
.q "Subject:"
header field of each message, if present. In addition,
.i Mail
tags the message header of each message that has been the object
of the
.b preserve
command with a
.q P.
Messages that have been
.b saved
or
.b written
are flagged with a
.q *.
Finally,
.b deleted
messages are not printed at all. If you wish to reprint the current

list of message headers, you can do so with the
.b headers
command. The
.b headers
command (and thus the initial header listing)
only lists the first so many message headers.
The number of headers listed depends on the speed of your
terminal.
.i Mail
maintains a notion of the current
.q window
into your messages for the purposes of printing headers.
Use the
.b z
command to move forward a window,
and
.b z-
to move back a window.
You can move
.i Mail's
notion of the current window directly to a particular message by
using, for example,
.(l
headers
 40
.)l
to move
.i Mail's
attention to the messages around message 40.
\fBHeaders\fP can be abbreviated to \fBh\fP.
.ip "\fBhelp\fP\ \ "
Print a brief and usually out of date help message about the commands
in
.i Mail .
The
.i man
page for
.i mail
is usually more up-to-date than either the help message or this manual.
It is also a synonym for \fB?\fP.
.ip "\fBhold\fP\ \ "
Arrange to hold a list of messages in the system mailbox, instead
of moving them to the file
.i mbox
in your home directory. If you set the binary option
.i hold ,
this will happen by default.
It does not override the \fBdelete\fP command.

\fBHold\fP can be abbreviated to \fBho\fP.
.ip "\fBif\fP\ \ "
Commands in your
.q .mailrc
file can be executed conditionally depending on whether you are
sending or receiving mail with the
.b if
command. For example, you can do:
.(l
if receive
 \fIcommands\fP...
endif
.)l
An
.b else
form is also available:
.(l
if send
 \fIcommands\fP...
else
 \fIcommands\fP...
endif
.)l
Note
 that the only allowed conditions are
.b receive
and
.b send .
.ip "\fBignore\fP \ \ "
.b N.B.:
.i Ignore
has been superseded by
.i retain .
.br
Add the list of header fields named to the
.i "ignore list" .
Header fields in the ignore list are not printed on your
terminal when you print a message. This allows you to suppress
printing of certain machine-generated header fields, such as
.i Via
which are not usually of interest. The
.b Type
and
.b Print
commands can be used to print a message in its entirety, including
ignored fields.
If
.b ignore

is executed with no arguments, it lists the current set of ignored fields.
.ip "\fBinc\fP\ \ "
Incorporate any new messages that have arrived while mail is being read.
The new messages are added to the end of the message list,
and the current message is reset to be the first new mail message.
This does not renumber the existing message list, nor does it
cause any changes made so far to be saved.
.ip "\fBlist\fP\ \ "
List the valid
.i Mail
commands.
\fBList\fP
 can be abbreviated to \fBl\fP.
.. .ip \fBlocal\fP
.. Define a list of local names for this host. This command is useful
.. when the host is known by more than one name. Names in the list
.. may be qualified be the domain of the host. The first name on the local
.. list is the
.. .i distinguished
.. name of the host.
.. The names on the local list are used by
.. .i Mail
.. to decide which addresses are local to the host.
.. For example:
.. .(l
.. local ucbarpa.BERKELEY.ARPA arpa.BERKELEY.ARPA \\
.. arpavax.BERKELEY.ARPA r.BERKELEY.ARPA \\
.. ucb-arpa.ARPA
.. .)l
.. From this list we see that
.. .i "fred@ucbarpa.BERKELEY.ARPA",
.. .i "harold@arpa.BERKELEY",
.. and
.. .i "larry@r"
.. are all addresses of users on the local host.
.. The
.. .b local
.. command is usually not used be general users since it is designed for
.. local configuration; it is usually found in the file /usr/lib/Mail.rc.
.ip "\fBmail\fP\ \ "
Send mail to one or more people. If you have the
.i
 ask
option set,
.i Mail
will prompt you for a subject to your message. Then you
can type in your message, using tilde escapes as described in
section 4 to edit, print, or modify your message. To signal your

satisfaction with the message and send it, type <Control-D> at the
beginning of a line, or a . alone on a line if you set the option
.i dot .
To abort the message, type two interrupt characters (Control-C
by default) in a row or use the
.b ~q
or
.b ~x
escapes.
The \fBmail\fP command can be abbreviated to \fBm\fP.
.ip "\fBmbox\fP\ \ "
Indicate that a list of messages be sent to
.i mbox
in your home directory when you quit. This is the default
action for messages if you do
.i not
have the
.i hold
option set.
.ip "\fBmore\fP\ \ "
Takes a message list and invokes the pager on that list.
.ip "\fBnext\fP or \fB+\fP\ \ "
The
.b next
command goes to the next message and types it. If given a message list,
.b next
goes to the first such message and types it. Thus,
.(l
next root
.)l
goes
 to the next message sent by
.q root
and types it. The
.b next
command can be abbreviated to simply a newline, which means that one
can go to and type a message by simply giving its message number or
one of the magic characters
.q "^"
.q "."
or
.q "$".
Thus,
.(l
\&.
.)l
prints the current message and
.(l

4
.)l
prints message 4, as described previously.
\fBNext\fP can be abbreviated to \fBn\fP.
.ip "\fBpreserve\fP\ \ "
Same as
.b hold .
Cause a list of messages to be held in your system mailbox when you quit.
\fBPreserve\fP can be abbreviated to \fBpre\fP.
.ip "\fBprint\fP\ \ "
Print the specified messages. If the
.b crt
variable is set, messages longer than the number of lines it indicates
are paged through the command specified by the \fBPAGER\fP variable.
The \fBprint\fP command can be abbreviated to \fBp\fP.
.ip "\fBquit\fP\ \ "
Terminates the session, saving all undeleted, unsaved and unwritten messages
in the user's \fImbox\fP file in their login directory
(messages marked as having
 been read), preserving all
messages marked with \fBhold\fP or \fBpreserve\fP or never referenced
in their system mailbox.
Any messages that were deleted, saved, written, or saved to \fImbox\fP are
removed from their system mailbox.
If new mail has arrived during the session, the message
``You have new mail'' is given. If given while editing a mailbox file
with the \fB\-f\fP flag, then the edit file is rewritten.
A return to the Shell is effected, unless the rewrite of edit file fails,
in which case the user can escape with the \fBexit\fP command.
\fBQuit\fP can be abbreviated to \fBq\fP.
.ip "\fBreply\fP or \fBrespond\fP\ \ "
Frame a reply to a single message.
The reply will be sent to the
person who sent you the message (to which you are replying), plus all
the people who received the original message, except you. You can
add people using the \fB~t\fP, \fB~c\fP, and \fB~b\fP
tilde escapes. The subject in your reply is formed by prefacing the
subject in the original message with
.q
 "Re:"
unless it already began thus.
If the original message included a
.q "reply-to"
header field, the reply will go
.i only
to the recipient named by
.q "reply-to."
You type in your message using the same conventions available to you

through the
.b mail
command.
The \fBreply\fP (and \fBrespond\fP) command can be abbreviated to \fBr\fP.
.ip "\fBretain\fP\ \ "
Add the list of header fields named to the \fIretained list\fP.
Only the header fields in the retain list
are shown on your terminal when you print a message.
All other header fields are suppressed.
The
.b Type
and
.b Print
commands can be used to print a message in its entirety.
If
.b retain
is executed with no arguments, it lists the current set of
retained fields.
.ip "\fBsave\fP\ \ "
It is often useful to be able to save messages on related topics
in a file. The
.b save
command gives you the ability to do this. The
.b save
command takes as an argument a list of message numbers, followed by
the name of the file in which to
 save the messages. The messages
are appended to the named file, thus allowing one to keep several
messages in the file, stored in the order they were put there.
The filename in quotes, followed by the line
count and character count is echoed on the user's terminal.
An example of the
.b save
command relative to our running example is:
.(l
s 1 2 tuitionmail
.)l
.b Saved
messages are not automatically saved in
.i mbox
at quit time, nor are they selected by the
.b next
command described above, unless explicitly specified.
\fBSave\fP can be abbreviated to \fBs\fP.
.ip "\fBsaveignore\fP\ \ "
\fBsaveignore\fP is to \fBsave\fP what \fBignore\fP is to \fBprint\fP
and \fBtype\fR.
Header fields thus marked are filtered out when saving a message

by \fBsave\fP or when automatically saving to \fImbox\fP.
.ip "\fBsaveretain\fP\ \ "
\fBsaveretain\fP is to \fBsave\fP what \fBretain\fP is to \fBprint\fP
and \fBtype\fR.
Header fields thus marked are the only ones saved with a message
when saving by \fBsave\fP
 or when automatically saving to \fImbox\fP.
\fBsaveretain\fP overrides \fBsaveignore\fP.
.ip "\fBset\fP\ \ "
Set an option or give an option a value. Used to customize
.i Mail .
Section 5.3 contains a list of the options. Options can be
.i binary ,
in which case they are
.i on
or
.i off ,
or
.i valued .
To set a binary option
.i option
.i on ,
do
.(l
set option
.)l
To give the valued option
.i option
the value
.i value ,
do
.(l
set option=value
.)l
There must be no space before or after the ``=" sign.
If no arguments are given, all variable values are printed.
Several options can be specified in a single
.b set
command.
\fBSet\fP can be abbreviated to \fBse\fP.
.ip "\fBshell\fP\ \ "
The
.b shell
command allows you to
escape to the shell.
.b Shell
invokes an interactive shell and allows you to type commands to it.
When you leave the shell, you will return to

.i Mail .
The shell used is a default assumed by
.i Mail ;
you can override this default by setting the valued option
.q
 SHELL,
eg:
.(l
set SHELL=/bin/csh
.)l
\fBShell\fP can be abbreviated to \fBsh\fP.
.ip "\fBsize\fP\ \ "
Takes a message list and prints out the size in characters of each
message.
.ip "\fBsource\fP\ \ "
The
.b source
command reads
.i mail
commands from a file. It is useful when you are trying to fix your
.q .mailrc
file and you need to re-read it.
\fBSource\fP can be abbreviated to \fBso\fP.
.ip "\fBtop\fP\ \ "
The
.b top
command takes a message list and prints the first five lines
of each addressed message.
If you wish, you can change the number of lines that
.b top
prints out by setting the valued option
.q "toplines."
On a CRT terminal,
.(l
set toplines=10
.)l
might be preferred.
\fBTop\fP can be abbreviated to \fBto\fP.
.ip "\fBtype\fP\ \ "
Same as \fBprint\fP.
Takes a message list and types out each message on the terminal.
The \fBtype\fP command can be abbreviated to \fBt\fP.
.ip "\fBunalias\fP \ \"
Takes a list of names defined by \fBalias\fP commands and
discards the remembered
 groups of users.
The group names no longer have any significance.
.ip "\fBundelete\fP \ \"

Takes a message list and marks each message as \fInot\fP
being deleted.
\fBUndelete\fP can be abbreviated to \fBu\fP.
.ip "\fBunread\fP\ \ "
Takes a message list and marks each message as
.i not
having been read.
\fBUnread\fP can be abbreviated to \fBU\fP.
.ip "\fBunset\fP\ \ "
Takes a list of option names and discards their remembered values;
the inverse of \fBset\fP.
.ip "\fBvisual\fP\ \ "
It is often useful to be able to invoke one of two editors,
based on the type of terminal one is using. To invoke
a display oriented editor, you can use the
.b visual
command. The operation of the
.b visual
command is otherwise identical to that of the
.b edit
command.
.ne 2v+\n(psu
.sp \n(psu
Both the
.b edit
and
.b visual
commands assume some default text editors.
The default for
.q EDITOR
is
.i /usr/bin/ex .
The default for
.q VISUAL
is
.i /usr/bin/vi .
These default editors can be overridden by the
 valued options
.q EDITOR
and
.q VISUAL
for the standard and screen editors. You might want to do:
.(l
set EDITOR=/bin/ed VISUAL=/usr/bin/mg
.)l
\fBVisual\fP can be abbreviated to \fBv\fP.
.ip "\fBwrite\fP\ \ "
The

.b save
command always writes the entire message, including the headers,
into the file. If you want to write just the message itself, you
can use the
.b write
command. The
.b write
command has the same syntax as the
.b save
command, and can be abbreviated to simply
.b w .
Thus, we could write the second message by doing:
.(l
w 2 file.c
.)l
As suggested by this example, the
.b write
command is useful for such tasks as sending and receiving
source program text over the message system.
The filename in quotes, followed by additional file information,
is echoed on the user's terminal.
.ip "\fBz\fP\ \ "
.i Mail
presents message headers in windowfuls as described under
the
.b headers
command.
You can move
.i Mail's
attention forward to the next window by giving the
.(l
z+
.)l
command.
  Analogously, you can move to the previous window with:
.(l
z\-
.)l
.sh 2 "Custom options"
.pp
Throughout this manual, we have seen examples of binary and valued options.
This section describes each of the options in alphabetical order, including
some that you have not seen yet.
To avoid confusion, please note that the options are either
all lower case letters or all upper case letters. When I start a sentence
such as:
.q "Ask"
causes

.i Mail
to prompt you for a subject header,
I am only capitalizing
.q ask
as a courtesy to English.
.ip "\fBEDITOR\fP\ \ "
The valued option
.q EDITOR
defines the pathname of the text editor to be used in the
.b edit
command and ~e escape.
If not defined,
.i /usr/bin/ex
is used.
.ip "\fBLISTER\fP\ \ "
Pathname of the directory lister to use in the \fBfolders\fP command.
Default is \fI/bin/ls\fP.
.ip "\fBMBOX\fP\ \ "
The name of the \fImbox\fP file.
It can be the name of a folder.
The default is ``mbox'' in the user's home directory.
.ip "\fBPAGER\fP\
\ "
Pathname of the program to use for paginating output when
it exceeds \fIcrt\fP lines.
A default paginator is used if this option is not defined.
.ip "\fBSHELL\fP\ \ "
The valued option
.q SHELL
gives the path name of your shell. This shell is used for the
.b !
command and ~! escape. In addition, this shell expands
file names with shell metacharacters like * and ? in them.
.ip "\fBVISUAL\fP\ \ "
The valued option
.q VISUAL
defines the pathname of the screen editor to be used in the
.b visual
command
and ~v escape.
If not defined,
.i /usr/bin/vi
is used.
.ip "\fBappend\fP\ \ "
The
.q append
option is binary and
causes messages saved in

.i mbox
to be appended to the end rather than prepended.
Normally, \fIMail\fP will put messages in \fImbox\fP
in the same order that the system puts messages in your system mailbox.
By setting
.q append,
you are requesting that
.i mbox
be appended to regardless. It is in any event quicker to append.
.ip "\fBask\fP\ \ "
.q "Ask"
is a binary option
 which
causes
.i Mail
to prompt you for the subject of each message you send.
If you respond with simply a newline, no subject field will be sent.
.ip "\fBaskbcc\fP\ \ "
.q Askbcc
is a binary option which
causes you to be prompted for additional blind carbon copy recipients at the
end of each message. Responding with a newline shows your
satisfaction with the current list.
.ip "\fBaskcc\fP\ \ "
.q Askcc
is a binary option which
causes you to be prompted for additional carbon copy recipients at the
end of each message. Responding with a newline shows your
satisfaction with the current list.
.ip "\fBautoinc\fP\ \ "
Causes new mail to be automatically incorporated when it arrives.
Setting this is similar to issuing the \fBinc\fP command at each prompt,
except that the current message is not reset when new mail arrives.
.ip "\fBautoprint\fP\ \ "
.q Autoprint
is a binary option which
causes the
.b delete
command to behave like
.b dp
*- thus, after deleting a message, the next one will be
 typed
automatically. This is useful when quickly scanning and deleting
messages in your mailbox.
.ip "\fBcrt\fP \ \ "
The valued option
.I crt
is used as a threshold to determine how long a message must

be before
.b PAGER
is used to read it.
.ip "\fBdebug\fP \ \ "
The binary option
.q debug
causes debugging information to be displayed. Use of this
option is the same as using the \fB\-d\fP command line flag.
.ip "\fBdot\fP\ \ "
.q Dot
is a binary option which, if set, causes
.i Mail
to interpret a period alone on a line as the terminator
of the message you are sending.
.ip "\fBescape\fP\ \ "
To allow you to change the escape character used when sending
mail, you can set the valued option
.q escape.
Only the first character of the
.q escape
option is used, and it must be doubled if it is to appear as
the first character of a line of your message. If you change your escape
character, then ~ loses all its special meaning, and need no longer be doubled
at the beginning of a line.
.ip "\fBfolder\fP\
\ "
The name of the directory to use for storing folders of messages.
If this name begins with a `/'
.i Mail
considers it to be an absolute pathname; otherwise, the folder directory
is found relative to your home directory.
.ip "\fBhold\fP\ \ "
The binary option
.q hold
causes messages that have been read but not manually dealt with
to be held in the system mailbox. This prevents such messages from
being automatically swept into your \fImbox\fP file.
.ip "\fBignore\fP\ \ "
The binary option
.q ignore
causes <Control-C> characters from your terminal to be ignored and echoed
as @'s while you are sending mail. <Control-C> characters retain their
original meaning in
.i Mail
command mode.
Setting the
.q ignore
option is equivalent to supplying the

.b \-i
flag on the command line as described in section 6.
.ip "\fBignoreeof\fP\ \ "
An option related to
.q dot
is
.q ignoreeof ,
which makes
.i Mail
refuse to accept a <Control-D> as the end of a message.
.q Ignoreeof
also applies to
.i
 Mail
command mode.
.ip "\fBindentprefix\fP\ \ "
String used by the \fB~m\fP tilde escape for indenting messages,
in place of the normal tab character (`^I').
Be sure to quote the value if it contains spaces or tabs.
.ip "\fBkeep\fP\ \ "
The
.q keep
option causes
.i Mail
to truncate your system mailbox instead of deleting it when it
is empty. This is useful if you elect to protect your mailbox, which
you would do with the shell command:
.(l
chmod 600 /var/mail/yourname
.)l
where
.i yourname
is your login name. If you do not do this, anyone can probably read
your mail, although people usually don't.
.ip "\fBkeepsave\fP\ \ "
When you
.b save
a message,
.i Mail
usually discards it when you
.b quit .
To retain all saved messages, set the
.q keepsave
option.
.ip "\fBmetoo\fP\ \ "
When sending mail to an alias,
.i Mail
makes sure that if you are included in the alias, that mail will not

be sent to you. This is useful if a single alias is being used by
all members of the group. If however,
 you wish to receive a copy of
all the messages you send to the alias, you can set the binary option
.q metoo.
.ip "\fBnoheader\fP\ \ "
The binary option
.q noheader
suppresses the printing of the version and headers when
.i Mail
is first invoked. Setting this option is the same as using
.b \-N
on the command line.
.ip "\fBnosave\fP\ \ "
Normally,
when you abort a message with two <Control-C>'s,
.i Mail
copies the partial letter to the file
.q dead.letter
in your home directory. Setting the binary option
.q nosave
prevents this.
.ip "\fBReplyall\fP\ \ "
Reverses the sense of
.i reply
and
.i Reply
commands.
.ip "\fBquiet\fP\ \ "
The binary option
.q quiet
suppresses the printing of the version when
.i Mail
is first invoked,
as well as printing the for example
.q "Message 4:"
from the
.b type
command.
.ip "\fBrecord\fP\ \ "
If you love to keep records, then the
valued option
.q record
can be set to the name of a file to save your outgoing mail.
Each new message you send is appended
 to the end of the file.
.ip "\fBscreen\fP\ \ "
When

.i Mail
initially prints the message headers, it determines the number to
print by looking at the speed of your terminal. The faster your
terminal, the more it prints.
The valued option
.q screen
overrides this calculation and
specifies how many message headers you want printed.
This number is also used for scrolling with the
.b z
command.
.ip "\fBsearchheaders\fP\ \ "
If this option is set, then a message-list specifier in the form
``/x:y" will expand to all messages containing the substring
`y' in the header field `x'.
The string search is case insensitive.
If `x' is omitted, it will default to the ``Subject" header field.
The form ``/to:y" is a special case, and will expand
to all messages containing the substring `y' in the ``To", ``Cc",
or ``Bcc" header fields.
The check for ``to" is case sensitive, so that ``/To:y"
can be used to limit the search for `y' to just the ``To:" field.
.ip "\fBsendmail\fP\ \ "
To use an alternate
 mail delivery system, set the
.q sendmail
option to the full pathname of the program to use. Note: this is not
for everyone! Most people should use the default delivery system.
.ip "\fBtoplines\fP\ \ "
The valued option
.q toplines
defines the number of lines that the
.q top
command will print out instead of the default five lines.
.ip "\fBverbose\fP\ \ "
The binary option "verbose" causes
.i Mail
to invoke sendmail with the
.b \-v
flag, which causes it to go into verbose mode and announce expansion
of aliases, etc. Setting the "verbose" option is equivalent to
invoking
.i Mail
with the
.b \-v
flag as described in section 6.
.\" $OpenBSD: maila.nr,v 1.3 2003/06/03 02:56:11 millert Exp $
.\"

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.\"
.\" @(#)maila.nr 8.1 (Berkeley) 6/8/93
.\"
.\" $OpenBSD: mail4.nr,v 1.6 2008/11/03 18:20:45 jmc Exp $
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.\"
.\" @(#)mail4.nr 8.2 (Berkeley) 5/16/94
.\"
.sh 1 "More about sending mail"
.sh 2 "Tilde escapes"
.pp
While typing in a message to be sent to others, it is often
useful to be able to invoke the text editor on the partial message,
print the message, execute a shell command, or do some other
auxiliary function.
.i Mail
provides
 these capabilities through
.i "tilde escapes" ,
which consist of a tilde (~) at the beginning of a line, followed by
a single character which indicates the function to be performed. For
example, to print the text of the message so far, use:
.(l
~p
.)l
which will print a line of dashes, the recipients of your message, and
the text of the message so far.
Since
.i Mail
requires two consecutive <Control-C>'s to abort a letter, you
can use a single <Control-C> to abort the output of ~p or any other
~ escape without killing your letter.
.pp
If you are dissatisfied with the message as
it stands, you can invoke the text editor on it using the escape
.(l
~e
.)l
which causes the message to be copied into a temporary file and an
instance of the editor to be spawned. After modifying the message to
your satisfaction, write it out and quit the editor.
.i Mail

will respond
by typing
.(l
(continue)
.)l
after which you may continue typing text which will be appended to your
message, or type <Control-D>
 to end the message.
A standard text editor is provided by
.i Mail .
You can override this default by setting the valued option
.q EDITOR
to something else. For example, you might prefer:
.(l
set EDITOR=/bin/ed
.)l
.pp
Many systems offer a screen editor as an alternative to the standard
text editor, such as the
.i vi
editor from UC Berkeley,
or
.i mg ,
an emacs-like editor.
To use the screen, or
.i visual
editor, on your current message, you can use the escape,
.(l
~v
.)l
~v works like ~e, except that the screen editor is invoked instead.
A default screen editor is defined by
.i Mail .
If it does not suit you, you can set the valued option
.q VISUAL
to the path name of a different editor.
.pp
It is often useful to be able to include the contents of some
file in your message; the escape
.(l
~r filename
.)l
is provided for this purpose, and causes the named file to be appended
to your current message.
.i Mail
complains if the file doesn't exist
or can't be read. If the read is

successful, the number of lines and
characters appended to your message is printed, after which you may continue
appending text. The filename may contain shell metacharacters like * and ?
which are expanded according to the conventions of your shell.
.pp
As a special case of ~r, the escape
.(l
~d
.)l
reads in the file
.q dead.letter
in your home directory. This is often useful since
.i Mail
copies the text
of your message there when you abort a message with <Control-C>.
.pp
To save the current text of your message on a file you may use the
.(l
~w filename
.)l
escape.
.i Mail
will print out the number of lines and characters written
to the file, after which you may continue appending text to your message.
Shell metacharacters may be used in the filename, as in ~r and are expanded
with the conventions of your shell.
.pp
If you are sending mail from within
.i Mail's
command mode
you can read a message sent to you into the message
you are constructing with the escape:
.(l
~m 4
.)l
which
will read message 4 into the current message, shifted right by
one tab stop. You can name any non-deleted message, or list of messages.
Messages can also be forwarded without shifting by a tab stop with ~f.
This is the usual way to forward a message.
.pp
If, in the process of composing a message, you decide to add additional
people to the list of message recipients, you can do so with the escape
.(l
~t name1 name2 ...
.)l
You may name as few or many additional recipients as you wish. Note
that the users originally on the recipient list will still receive

the message; you cannot remove someone from the recipient
list with ~t.
.pp
If you wish, you can associate a subject with your message by using the
escape
.(l
~s Arbitrary string of text
.)l
which replaces any previous subject with
.q "Arbitrary string of text."
The subject, if given, is sent near the
top of the message prefixed with
.q "Subject:"
You can see what the message will look like by using ~p.
.pp
For political reasons, one
occasionally prefers to list certain
people as recipients of carbon copies of a message rather than
direct recipients. The escape
.(l
~c name1 name2 ...
.)l
adds the named people to the
.q "Cc:"
list, similar to ~t.
Again, you can execute ~p to see what the message will look like.
.pp
The escape
.(l
~b name1 name2 ...
.)l
adds the named people to the
.q "Cc:"
list, but does not make the names visible in the
.q "Cc:"
line ("blind" carbon copy).
.pp
The recipients of the message together constitute the
.q "To:"
field, the subject the
.q "Subject:"
field, and the carbon copies the
.q "Cc:"
field. If you wish to edit these in ways impossible with the ~t, ~s, ~c
and ~b escapes, you can use the escape
.(l
~h
.)l

which prints
.q "To:"
followed by the current list of recipients and leaves the cursor
(or printhead) at the end of the line. If you type in ordinary
characters, they are appended to the end of the current list of
recipients. You can also use your erase character to erase back
 into
the list of recipients, or your kill character to erase them altogether.
Thus, for example, if your erase and kill characters are the standard
(on printing terminals) <Control-H> and <Control-U> keys,
.(l
~h
To: root kurt^H^H^H^Hbill
.)l
would change the initial recipients
.q "root kurt"
to
.q "root bill."
When you type a newline,
.i Mail
advances to the
.q "Subject:"
field, where the same rules apply. Another newline brings you to
the
.q "Cc:"
field, which may be edited in the same fashion. Another newline
brings you to the
.q "Bcc:"
("blind" carbon copy) field, which follows the same rules as the "Cc:"
field. Another newline
leaves you appending text to the end of your message. You can use
~p to print the current text of the header fields and the body
of the message.
.pp
To effect a temporary escape to the shell, the escape
.(l
~!command
.)l
is used, which executes
.i command
and returns you to mailing mode without altering the text of
your message. If you wish, instead, to
 filter the body of your
message through a shell command, then you can use
.(l
~|command
.)l
which pipes your message through the command and uses the output

as the new text of your message. If the command produces no output,
.i Mail
assumes that something is amiss and retains the old version
of your message. A frequently-used filter is the command
.i fmt ,
designed to format outgoing mail.
.pp
To effect a temporary escape to
.i Mail
command mode instead, you can use the
.(l
~:\fIMail command\fP
.)l
escape. This is especially useful for retyping the message you are
replying to, using, for example:
.(l
~:t
.)l
It is also useful for setting options and modifying aliases.
.pp
If you wish abort the current message, you can use the escape
.(l
~q
.)l
This will terminate the current message and return you to the
shell (or \fIMail\fP if you were using the \fBmail\fP command).
If the \fBsave\fP option is set, the message will be copied
to the file
.q dead.letter
in your home directory.
.pp
If
 you wish to abort the current message,
without saving any copy of it whatsoever,
even if the \fBsave\fP option is set,
you can use the escape
.(l
~x
.)l
.pp
If you wish (for some reason) to send a message that contains
a line beginning with a tilde, you must double it. Thus, for example,
.(l
~~This line begins with a tilde.
.)l
sends the line
.(l
~This line begins with a tilde.

.)l
.pp
Finally, the escape
.(l
~?
.)l
prints out a brief summary of the available tilde escapes.
.pp
On some terminals (particularly ones with no lower case)
tilde's are difficult to type.
.i Mail
allows you to change the escape character with the
.q escape
option. For example, I set
.(l
set escape=]
.)l
and use a right bracket instead of a tilde. If I ever need to
send a line beginning with right bracket, I double it, just as for ~.
Changing the escape character removes the special meaning of ~.
.sh 2 "Network access"
.pp
This section describes how to send mail to people on other machines.
Recall that sending
 to a plain login name sends mail to that person
on your machine. If your machine is directly (or sometimes, even,
indirectly) connected to the Internet, you can send messages to people
on the Internet using a name of the form
.(l
name@host.domain
.)l
where
.i name
is the login name of the person you're trying to reach,
.i host
is the name of the machine on the Internet,
and
.i domain
is the higher-level scope within which the hostname is known, e.g. EDU (for educational
institutions), COM (for commercial entities), GOV (for governmental agencies),
ARPA for many other things, BITNET or CSNET for those networks.
.pp
If your recipient logs in on a machine connected to yours by
UUCP (the Bell Laboratories supplied network that communicates
over telephone lines), sending mail can be a bit more complicated.
You must know the list of machines through which your message must
travel to arrive at his site. So, if his machine is directly connected
to yours, you can send mail to him using the

syntax:
.(l
host!name
.)l
where, again,
.i host
is the name of the machine and
.i name
is the login name.
If your message must go through an intermediary machine first, you
must use the syntax:
.(l
intermediary!host!name
.)l
and so on. It is actually a feature of UUCP that the map of all
the systems in the network is not known anywhere (except where people
decide to write it down for convenience). Talk to your system administrator
about good ways to get places; the
.i uuname
command will tell you systems whose names are recognized, but not which
ones are frequently called or well-connected.
.pp
When you use the
.b reply
command to respond to a letter, there is a problem of figuring out the
names of the users in the
.q "To:"
and
.q "Cc:"
lists
.i "relative to the current machine" .
If the original letter was sent to you by someone on the local machine,
then this problem does not exist, but if the message came from a remote
machine, the problem must be dealt with.
.i Mail
uses a heuristic
to build the correct name for each user relative
to the local machine. So, when you
.b reply
to remote mail, the names in the
.q "To:"
and
.q "Cc:"
lists may change somewhat.
.sh 2 "Special recipients"
.pp
As described previously, you can send mail to either user names or
.b alias

names. It is also possible to send messages directly to files or to
programs, using special conventions. If a recipient name has a
`/' in it or begins with a `+', it is assumed to be the
path name of a file into which
to send the message. If the file already exists, the message is
appended to the end of the file. If you want to name a file in
your current directory (ie, one for which a `/' would not usually
be needed) you can precede the name with `./'
So, to send mail to the file
.q memo
in the current directory, you can give the command:
.(l
% Mail ./memo
.)l
If the name begins with a `+,' it is expanded into the full path name
of the folder name in your folder directory.
This ability to send mail
 to files can be used for a variety of
purposes, such as maintaining a journal and keeping a record of
mail sent to a certain group of users. The second example can be
done automatically by including the full pathname of the record
file in the
.b alias
command for the group. Using our previous
.b alias
example, you might give the command:
.(l
alias project sam sally steve susan /usr/project/mail_record
.)l
Then, all mail sent to "project" would be saved on the file
.q /usr/project/mail_record
as well as being sent to the members of the project. This file
can be examined using
.i "Mail \-f" .
.pp
It is sometimes useful to send mail directly to a program, for
example one might write a project billboard program and want to access
it using
.i Mail .
To send messages to the billboard program, one can send mail
to the special name `|billboard' for example.
.i Mail
treats recipient names that begin with a `|' as a program to send
the mail to. An
.b alias
can be set up to reference a `|'
 prefaced name if desired.
.i Caveats :

the shell treats `|' specially, so it must be quoted on the command
line. Also, the `| program' must be presented as a single argument to
mail. The safest course is to surround the entire name with double
quotes. This also applies to usage in the
.b alias
command. For example, if we wanted to alias `rmsgs' to `rmsgs \-s'
we would need to say:
.(l
alias rmsgs "| rmsgs -s"
.)l
.\" $OpenBSD: mail8.nr,v 1.5 2004/06/04 00:04:54 jmc Exp $
.\"
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.\"
.\" @(#)mail8.nr 8.2 (Berkeley) 5/16/94
.\"
.sh 1 "Glossary"
.pp
This section contains the definitions of a few phrases
peculiar to
.i Mail .
.ip "\fIalias\fP"

An alternative name for a person or list of people.
.ip "\fIflag\fP"
An option, given on the command line of
.i Mail ,
prefaced with a \-. For example,
.b \-f
is
 a flag.
.ip "\fIheader field\fP"
At the beginning of a message, a line which contains information
that is part of the structure of the message. Popular header fields
include
.i to ,
.i cc ,
and
.i subject .
.ip "\fImail\ \ \fP"
A collection of messages. Often used in the phrase,
.q "Have you read your mail?"
.ip "\fImailbox\fP"
The place where your mail is stored, typically in the directory
/var/mail.
.ip "\fImessage\fP"
A single letter from someone, initially stored in your
.i mailbox .
.ip "\fImessage list\fP"
A string used in
.i Mail
command mode to describe a sequence of messages.
.ip "\fIoption\fP"
A piece of special purpose information used to tailor
.i Mail
to your taste.
Options are specified with the
.b set
command.
.\" $OpenBSD: mail0.nr,v 1.4 2004/06/04 00:04:54 jmc Exp $
.\"
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.\"
.\" @(#)mail0.nr 8.1 (Berkeley) 6/8/93
.\"
.if n \{\
.po 5n
.ll 70n
.\}
.eh 'USD:7-%''Mail Reference Manual'
.oh 'Mail Reference Manual''USD:7-%'
.if n \
.nr fs .5v
.\".he 'Mail Reference Manual'\n(mo/\n(dy/\n(yr'%'
.tp
.sp 1.0i
.sz 12
.rb
.(l C
MAIL REFERENCE MANUAL
.)l
.sz 10
.sp 2
.i
.(l C
Kurt Shoens
.)l
.r
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 by
.)l
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```

```
.i
Craig Leres\ \c
.r
and\ \c
.i
Mark Andrews
.)l
.r
.(l C
Version 5.5


\*(td
.)l
.pn 2
.\" $OpenBSD: mail6.nr,v 1.6 2006/03/04 16:18:06 miod Exp $
.\"
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.\"
.\" @(#)mail6.nr 8.2 (Berkeley) 5/16/94
.\"
.sh 1 "Command line options"
```

.pp
This section describes command line options for
.i Mail
and what they are used for.
.ip "\-b list\ \ "
Send blind carbon copies to list.
.ip "\-c list\ \ "
Send carbon copies to list of users.
List should be a comma separated list of names.
.ip
"\-f file\ \ "
Show the messages in
.i file
instead of your system mailbox. If
.i file
is omitted,
.i Mail
reads
.i mbox
in your home directory.
.ip \-I
Forces mail to run in interactive mode,
even when input is not a terminal.
In particular, the special \fB~\fP command character,
used when sending mail, is only available interactively.
.ip \-i
Ignore tty interrupt signals.
This is particularly useful when using mail on noisy phone lines.
.ip \-N
Suppress the initial printing of headers.
.ip \-n
Inhibit reading of /etc/mail.rc upon startup.
.ip "\-s string"
Used for sending mail.
.i String
is used as the subject of the message being composed. If
.i string
contains blanks, you must surround it with quote marks.
.ip "\-u name"
Read
.i names's
mail instead of your own. Unwitting others often neglect to protect
their mailboxes, but discretion is advised. Essentially,
.b "\-u user"
is a shorthand way of doing
.b "\-f /var/mail/user".
.ip "\-v"
Use the

.b \-v
flag when invoking sendmail.
This feature may also be enabled
by setting the option "verbose".
.pp
The following command line flags are also recognized, but are
intended for use by programs invoking
.i Mail
and not for people.
.ip \-d
Turn on debugging information. Not of general interest.
.ip "\-T file"
Arrange to print on
.i file
the contents of the
.i article-id
fields of all messages that were either read or deleted.
.b \-T
is for the
.i readnews
program and should NOT be used for reading your mail.

1.1861 liblockfile 1.17-1build2

1.1861.1 Available under license :

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Version 2, June 1991

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can relink them
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// OtherLicense is an Other License Information section of an
// SPDX Document for version 2.3 of the spec.
type OtherLicense struct {
 // 10.1: License Identifier: "LicenseRef-[idstring]"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 10.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //              License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 10.3: License Name: single line of text or "NOASSERTION"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseName string `json:"name,omitempty"`

 // 10.4: License Cross Reference
 // Cardinality: conditional (optional, one or many) if license
 //              is not on SPDX License List
 LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

 //
 10.5: License Comment
 // Cardinality: optional, one
 LicenseComment string `json:"comment,omitempty"`
}
```

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```
package v2_2

// OtherLicense is an Other License Information section of an
// SPDX Document for version 2.2 of the spec.
type OtherLicense struct {
 // 10.1: License Identifier: "LicenseRef-[idstring]"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseIdentifier string `json:"licenseId"`
```

```
// 10.2: Extracted Text
// Cardinality: conditional (mandatory, one) if there is a
//             License Identifier assigned
ExtractedText string `json:"extractedText"`

// 10.3: License Name: single line of text or "NOASSERTION"
// Cardinality: conditional (mandatory, one) if license is not
//             on SPDX License List
LicenseName string `json:"name,omitempty"`

// 10.4: License Cross Reference
// Cardinality: conditional (optional, one or many) if license
//             is not on SPDX License List
LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

//
10.5: License Comment
// Cardinality: optional, one
LicenseComment string `json:"comment,omitempty"`
}
```

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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localtime.go, localtime_test.go:

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Changes:
  * Renamed files from civil* to localtime*.
  * Package changed from civil to toml.
  * 'Local' prefix added to all structs.
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1.1863 dbus-python 1.2.18

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1.1865 x-text 0.14.0

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1.1866 go.opentelemetry.io/otel/trace 1.19.0

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1.1867 otel 1.19.0

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1.1868 github.com/getkin/kin-openapi 0.120.0

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```
package openapi3

import (
 "context"
 "encoding/json"
 "errors"
)

// License is specified by OpenAPI/Swagger standard version 3.
// See https://github.com/OAI/OpenAPI-Specification/blob/main/versions/3.0.3.md#license-object
type License struct {
 Extensions map[string]interface{} `json:"-" yaml:"-"`

 Name string `json:"name" yaml:"name"` // Required
 URL  string `json:"url,omitempty" yaml:"url,omitempty"`
}

// MarshalJSON returns the JSON encoding of License.
func (license License) MarshalJSON() ([]byte, error) {
 m := make(map[string]interface{}, 2+len(license.Extensions))
 for k, v := range license.Extensions {
  m[k] = v
 }
 m["name"] = license.Name
 if x := license.URL; x != "" {
  m["url"] = x
 }
 return json.Marshal(m)
}
```

```
// UnmarshalJSON sets License to a copy of data.
func (license *License) UnmarshalJSON(data []byte) error {
 type LicenseBis License
 var x LicenseBis
 if err := json.Unmarshal(data, &x); err != nil {
  return err
 }
 _ = json.Unmarshal(data, &x.Extensions)
 delete(x.Extensions,
 "name")
 delete(x.Extensions, "url")
 *license = License(x)
 return nil
}

// Validate returns an error if License does not comply with the OpenAPI spec.
func (license *License) Validate(ctx context.Context, opts ...ValidationOption) error {
 ctx = WithValidationOptions(ctx, opts...)

 if license.Name == "" {
  return errors.New("value of license name must be a non-empty string")
 }

 return validateExtensions(ctx, license.Extensions)
}
```

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1.1869 github.com/grafana/gofpdf 0.0.0-20231002120153-857cc45be447

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1.1870 go-cty 1.13.0

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1.1871 grafana-gofpdf 0.0.0-20231002120153-857cc45be447

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1.1872 github.com/centrifugal/centrifuge 0.30.2

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1.1873 grafana-cue 0.0.0-20230926092038-971951014e3f

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1.1884 kubernetes-klog 2.110.1

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1.1888 mux 1.8.1

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1.1889 cloudflare-cfssl 1.6.4

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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```
// +build go1.10

package pq

import (
 "context"
 "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
 return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
 c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
// on it.
type NoticeHandlerConnector
 struct {
 driver.Connector
 noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
 c, err := n.Connector.Connect(ctx)
 if err == nil {
  SetNoticeHandler(c, n.noticeHandler)
 }
 return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
```

```
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  return c.noticeHandler
 }
 return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and setting the notice
//
 handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  c.noticeHandler = handler
  return c
 }
 return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
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1.1891 thermald 2.4.9-1ubuntu0.4

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1.1893 libinih1 53-1ubuntu3

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1.1894 libserf-1-1 1.3.9-10ubuntu2

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1.1896 sigs-k8s-io-yaml 1.4.0

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"Source code" for a work means the preferred form of the work for

making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form

under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work

under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for

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1.1908 libaudit 3.0.9-1

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are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting
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software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library
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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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interface-compatible with the version that the work was made with.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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1.1915 toml 1.3.2

1.1915.1 Available under license :

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1.1916 perl 5.34.0-3ubuntu1.3

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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fsync: Inlibc
?MAKE: -pick add $@ %<
?S:d_fsync:
?S: This variable conditionally defines the HAS_FSYNC symbol, which
?S: indicates to the C program that the fsync() routine is available.
?S:.
?C:HAS_FSYNC:
?C: This symbol, if defined, indicates that the fsync routine is
?C: available to write a file's modified data and attributes to
?C: permanent storage.
?C:.
?H:#$d_fsync HAS_FSYNC  /**/
?H:.
?LINT:set d_fsync
: see if fsync exists
set fsync d_fsync
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fsync.U

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```
?RCS: $Id: i_sysstatfs.U,v $
?RCS:
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?RCS:
?MAKE:i_sysstatfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysstatfs:
?S: This variable conditionally defines the I_SYSSTATFS symbol,
?S: and indicates whether a C program should include <sys/statfs.h>.
?S:.
?C:I_SYS_STATFS:
?C: This symbol, if defined, indicates that <sys/statfs.h> exists.
?C:.
?H:#$i_sysstatfs I_SYS_STATFS  /**/
?H:.
?LINT:set i_sysstatfs
: see if this is a sys/statfs.h system
set sys/statfs.h i_sysstatfs
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysstatfs.U
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?RCS:
?MAKE:d_eaccess: Inlibc
?MAKE: -pick add $@ %<
?S:d_eaccess:
?S: This variable conditionally defines the HAS_EACCESS symbol, which
?S: indicates to the C program that the eaccess() routine is available.
?S:.
?C:HAS_EACCESS :
?C: This symbol, if defined, indicates that the eaccess routine is
?C: available to do extended access checks.
?C:.
?H:#$d_eaccess HAS_EACCESS  /**/
```

```
?H:.
?LINT:set d_eaccess
: see if eaccess exists
set eaccess d_eaccess
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/acl/d_eaccess.U
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?RCS:
?MAKE:d_strtoq: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtoq:
?S: This variable conditionally defines the HAS_STRTOQ symbol, which
?S: indicates to the C program that the strtoq() routine is available.
?S:.
?C:HAS_STRTOQ:
?C: This symbol, if defined, indicates that the strtoq routine is
?C: available to convert strings to long longs (quads).
?C:.
?H:#$d_strtoq HAS_STRTOQ  /**/
?H:.
?LINT:set d_strtoq
: see if strtoq exists
set strtoq d_strtoq
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strtoq.U
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```
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?RCS:
?MAKE:d_rint: Inlibc
?MAKE: -pick add $@ %<
?S:d_rint:
?S: This variable conditionally defines the HAS_RINT symbol, which
?S: indicates to the C program that the rint() routine is available.
```

```
?S:.
?C:HAS_RINT:
?C: This symbol, if defined, indicates that the rint routine is
?C: available to return the nearest integral value to x as double
?C: using the current rounding mode.
?C:.
?H:#$d_rint HAS_RINT  /**/
?H:.
?LINT:set d_rint
: see if rint exists
set rint d_rint
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_rint.U
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?RCS:
?MAKE:d_localeconv_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_localeconv_l:
?S: This variable conditionally defines the HAS_LOCALECONV_L symbol, which
?S: indicates to the C program that the localeconv_l() routine is available.
?S:.
?C:HAS_LOCALECONV_L:
?C: This symbol, if defined, indicates that the localeconv_l routine is
?C: available to query certain information about a locale.
?C:.
?H:#$d_localeconv_l HAS_LOCALECONV_L  /**/
?H:.
?LINT:set d_localeconv_l
: see if localeconv_l exists
set localeconv_l d_localeconv_l
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_localeconv_l.U
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```
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```

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_llroundl: Inlibc
?MAKE: -pick add $@ %<
?S:d_llroundl:
?S: This variable conditionally defines the HAS_LLROUNDL symbol, which
?S: indicates to the C program that the llroundl() routine is available
?S: to return the long long value nearest to x away from zero.
?S:.
?C:HAS_LLROUNDL:
?C: This symbol, if defined, indicates that the llroundl routine is
?C: available to return the nearest long long value away from zero of
?C: the long double argument value.
?C:.
?H:#$d_llroundl HAS_LLROUNDL  /**/
?H:.
?LINT:set d_llroundl
: see if llroundl exists
set llroundl d_llroundl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_llroundl.U
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```
?RCS: $Id: Nothing.U 1 2006-08-24 12:32:52Z rmanfredi $
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Nothing.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this file is to supply an empty target for the private
?X: Makefile built by metaconfig to order the units.
?X:
?MAKE:Nothing: Head
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/dist/U/Nothing.U
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```
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?RCS:
?MAKE:d_frexpl: Inlibc
?MAKE: -pick add $@ %<
?S:d_frexpl:
?S: This variable conditionally defines the HAS_FREXPL symbol, which
?S: indicates to the C program that the frexpl() routine is available.
?S:.
?C:HAS_FREXPL:
?C: This symbol, if defined, indicates that the frexpl routine is
?C: available to break a long double floating-point number into
?C: a normalized fraction and an integral power of 2.
?C:.
?H:#$d_frexpl HAS_FREXPL  /**/
?H:.
?LINT:set d_frexpl
: see if frexpl exists
set frexpl d_frexpl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_frexpl.U
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```
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?RCS:
?MAKE:d_lroundl: Inlibc
?MAKE: -pick add $@ %<
?S:d_lroundl:
?S: This variable conditionally defines the HAS_LROUNDL symbol, which
?S: indicates to the C program that the lroundl() routine is available
?S: to return the integral value nearest to x away from zero.
?S:.
?C:HAS_LROUNDL:
?C: This symbol, if defined, indicates that the lroundl routine is
?C: available to return the nearest integral value away from zero of
?C: the long double argument value.
?C:.
```

```
?H:#$d_lroundl HAS_LROUNDL  /**/
?H:.
?LINT:set d_lroundl
: see if lroundl exists
set lroundl d_lroundl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lroundl.U
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```
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?RCS:
?MAKE:d_tgamma: Inlibc
?MAKE: -pick add $@ %<
?S:d_tgamma:
?S: This variable conditionally defines the HAS_TGAMMA symbol, which
?S: indicates to the C program that the tgamma() routine is available
?S: for the gamma function.  See also d_lgamma.
?S:.
?C:HAS_TGAMMA:
?C: This symbol, if defined, indicates that the tgamma routine is
?C: available to do the gamma function. See also HAS_LGAMMA.
?C:.
?H:#$d_tgamma HAS_TGAMMA  /**/
?H:.
?LINT:set d_tgamma
: see if tgamma exists
set tgamma d_tgamma
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_tgamma.U
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```
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?RCS:
?MAKE:d_ilogb: Inlibc
?MAKE: -pick add $@ %<
?S:d_ilogb:
?S: This variable conditionally defines the HAS_ILOGB symbol, which
?S: indicates to the C program that the ilogb() routine is available
?S: for extracting the exponent of double x as a signed integer.
?S:.
```

```
?C:HAS_ILOGB:
?C: This symbol, if defined, indicates that the ilogb routine is
?C: available to get integer exponent of a floating-point value.
?C:.
?H:#$d_ilogb HAS_ILOGB  /**/
?H:.
?LINT:set d_ilogb
: see if ilogb exists
set ilogb d_ilogb
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_ilogb.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_poll.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_poll: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_poll:
?S: This variable conditionally defines the I_POLL symbol, and indicates
?S: whether a C program should include <poll.h>.
?S:.
?C:I_POLL:
?C: This symbol, if defined, indicates that <poll.h> exists and
?C: should be included. (see also HAS_POLL)
?C:.
?H:#$i_poll I_POLL  /**/
?H:.
?LINT:set i_poll
: see if this is a poll.h system
set poll.h i_poll
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_poll.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
```

```
?MAKE:d_hypot: Inlibc
?MAKE: -pick add $@ %<
?S:d_hypot:
?S: This variable conditionally defines HAS_HYPOT if hypot is available
?S: for numerically stable hypotenuse function.
?S:.
?C:HAS_HYPOT:
?C: This symbol, if defined, indicates that the hypot routine is
?C: available to do the hypotenuse function.
?C:.
?H:#$d_hypot HAS_HYPOT  /**/
?H:.
?LINT:set d_hypot
: see if hypot exists
set hypot d_hypot
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_hypot.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_ustat.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_ustat: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_ustat:
?S: This variable conditionally defines the I_USTAT symbol, and indicates
?S: whether a C program should include <ustat.h>.
?S:.
?C:I_USTAT:
?C: This symbol, if defined, indicates that <ustat.h> exists and
?C: should be included.
?C:.
?H:#$i_ustat I_USTAT  /**/
?H:.
?LINT:set i_ustat
: see if this is a ustat.h system
set ustat.h i_ustat
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/U/perl/i_ustat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?X:
?X: Useless unit dropped.  Use randfunc instead.
?X:
?LINT:empty
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/randbits.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_trunc: Inlibc
?MAKE: -pick add $@ %<
?S:d_trunc:
?S: This variable conditionally defines the HAS_TRUNC symbol, which
?S: indicates to the C program that the trunc() routine is available
?S: to round doubles towards zero.
?S:.
?C:HAS_TRUNC:
?C: This symbol, if defined, indicates that the trunc routine is
?C: available to round doubles towards zero.
?C:.
?H:#$d_trunc HAS_TRUNC  /**/
?H:.
?LINT:set d_trunc
: see if trunc exists
set trunc d_trunc
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_trunc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_llrint: Inlibc
?MAKE: -pick add $@ %<
?S:d_llrint:
?S: This variable conditionally defines the HAS_LLRINT symbol, which
?S: indicates to the C program that the llrint() routine is available
?S: to return the long long value closest to a double (according
?S: to the current rounding mode).
?S:.
?C:HAS_LLRINT:
?C: This symbol, if defined, indicates that the llrint routine is
?C: available to return the long long value closest to a double
?C: (according to the current rounding mode).
?C:.
?H:#$d_llrint HAS_LLRINT  /**/
?H:.
?LINT:set d_llrint
: see if llrint exists
set llrint d_llrint
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_llrint.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_nearbyint: Inlibc
?MAKE: -pick add $@ %<
?S:d_nearbyint:
?S: This variable conditionally defines HAS_NEARBYINT if nearbyint()
?S: is available to return the integral value closest to (according to
?S: the current rounding mode) to x.
?S:.
?C:HAS_NEARBYINT:
?C: This symbol, if defined, indicates that the nearbyint routine is
?C: available to return the integral value closest to (according to
?C: the current rounding mode) to x.
?C:.
?H:#$d_nearbyint HAS_NEARBYINT  /**/
?H:.
?LINT:set d_nearbyint
: see if nearbyint exists
set nearbyint d_nearbyint
```

```
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_nearbyint.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: setsid.C,v 3.0.1.1 1994/01/24 13:58:47 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* $Log: setsid.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:47  ram
* patch16: created
*
*/
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/setsid.C
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_llround: Inlibc
?MAKE: -pick add $@ %<
?S:d_llround:
?S: This variable conditionally defines the HAS_LLROUND symbol, which
?S: indicates to the C program that the llround() routine is available
?S: to return the long long value nearest to x.
?S:.
?C:HAS_LLROUND:
?C: This symbol, if defined, indicates that the llround routine is
?C: available to return the nearest long long value.
?C:.
?H:#$d_llround HAS_LLROUND  /**/
?H:.
?LINT:set d_llround
: see if llround exists
set llround d_llround
```

```
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_llround.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtold: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtold:
?S: This variable conditionally defines the HAS_STRTOLD symbol, which
?S: indicates to the C program that the strtold() routine is available.
?S:.
?C:HAS_STRTOLD:
?C: This symbol, if defined, indicates that the strtold routine is
?C: available to convert strings to long doubles.
?C:.
?H:#$d_strtold HAS_STRTOLD  /**/
?H:.
?LINT:set d_strtold
: see if strtold exists
set strtold d_strtold
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strtold.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysutsname.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysutsname: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysutsname:
?S: This variable conditionally defines the I_SYSUTSNAME symbol,
?S: and indicates whether a C program should include <sys/utsname.h>.
```

```
?S:.
?C:I_SYSUTSNAME:
?C: This symbol, if defined, indicates that <sys/utsname.h> exists and
?C: should be included.
?C:.
?H:#$i_sysutsname I_SYSUTSNAME  /**/
?H:.
?LINT:set i_sysutsname
: see if this is a sys/utsname.h system
set sys/utsname.h i_sysutsname
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysutsname.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_erfc: Inlibc
?MAKE: -pick add $@ %<
?S:d_erfc:
?S: This variable conditionally defines the HAS_ERFC symbol, which
?S: indicates to the C program that the erfc() routine is available.
?S:.
?C:HAS_ERFC:
?C: This symbol, if defined, indicates that the erfc routine is
?C: available to do the complementary error function.
?C:.
?H:#$d_erfc HAS_ERFC  /**/
?H:.
?LINT:set d_erfc
: see if erfc exists
set erfc d_erfc
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_erfc.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fegetround: Inlibc
?MAKE: -pick add $@ %<
?S:d_fegetround:
```

```
?S: This variable conditionally defines HAS_FEGETROUND if fegetround() is
?S: available to get the floating point rounding mode.
?S:.
?C:HAS_FEGETROUND:
?C: This symbol, if defined, indicates that the fegetround routine is
?C: available to return the macro corresponding to the current rounding
?C: mode.
?C:.
?H:#$d_fegetround HAS_FEGETROUND /**/
?H:.
?LINT:set d_fegetround
: see if fegetround exists
set fegetround d_fegetround
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fegetround.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strftime: Inlibc
?MAKE: -pick add $@ %<
?S:d_strftime:
?S: This variable conditionally defines the HAS_STRFTIME symbol, which
?S: indicates to the C program that the strftime() routine is available.
?S:.
?C:HAS_STRFTIME:
?C: This symbol, if defined, indicates that the strftime routine is
?C: available to do time formatting.
?C:.
?H:#$d_strftime HAS_STRFTIME  /**/
?H:.
?LINT:set d_strftime
: see if strftime exists
set strftime d_strftime
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strftime.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_aintl: Inlibc
?MAKE: -pick add $@ %<
?S:d_aintl:
?S: This variable conditionally defines the HAS_AINTL symbol, which
?S: indicates to the C program that the aintl() routine is available.
?S: If copysignl is also present we can emulate modfl.
?S:.
?C:HAS_AINTL:
?C: This symbol, if defined, indicates that the aintl routine is
?C: available.  If copysignl is also present we can emulate modfl.
?C:.
?H:#$d_aintl HAS_AINTL  /**/
?H:.
?LINT:set d_aintl
: see if aintl exists
set aintl d_aintl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_aintl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2005 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_unsetenv: Inlibc
?MAKE: -pick add $@ %<
?S:d_unsetenv:
?S: This variable conditionally defines the HAS_UNSETENV symbol, which
?S: indicates to the C program that the unsetenv () routine is available.
?S:.
?C:HAS_UNSETENV:
?C: This symbol, if defined, indicates that the unsetenv () routine is
?C: available for use.
```

```
?C:.
?H:#$d_unsetenv HAS_UNSETENV  /**/
?H:.
?LINT:set d_unsetenv
: see if unsetenv exists
set unsetenv d_unsetenv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_unsetenv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_fmin: Inlibc
?MAKE: -pick add $@ %<
?S:d_fmin:
?S: This variable conditionally defines the HAS_FMIN symbol, which
?S: indicates to the C program that the fmin() routine is available.
?S:.
?C:HAS_FMIN:
?C: This symbol, if defined, indicates that the fmin routine is
?C: available to do the minimum function.
?C:.
?H:#$d_fmin HAS_FMIN  /**/
?H:.
?LINT:set d_fmin
: see if fmin exists
set fmin d_fmin
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fmin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtod_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtod_l:
```

```
?S: This variable conditionally defines the HAS_STRTOD_L symbol, which
?S: indicates to the C program that the strtod_l() routine is available.
?S:.
?C:HAS_STRTOD_L:
?C: This symbol, if defined, indicates that the strtod_l routine is
?C: available to convert strings to long doubles.
?C:.
?H:#$d_strtod_l HAS_STRTOD_L  /**/
?H:.
?LINT:set d_strtod_l
: see if strtod_l exists
set strtod_l d_strtod_l
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_strtod_l.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getnameinfo: Inlibc
?MAKE: -pick add $@ %<
?S:d_getnameinfo:
?S: This variable conditionally defines the HAS_GETNAMEINFO symbol,
?S: which indicates to the C program that the getnameinfo() function
?S: is available.
?S:.
?C:HAS_GETNAMEINFO:
?C: This symbol, if defined, indicates that the getnameinfo() function
?C: is available for use.
?C:.
?H:#$d_getnameinfo HAS_GETNAMEINFO  /**/
?H:.
?LINT:set d_getnameinfo
: see if getnameinfo exists
set getnameinfo d_getnameinfo
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getnameinfo.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtold_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtold_l:
?S: This variable conditionally defines the HAS_STRTOLD_L symbol, which
?S: indicates to the C program that the strtold_l() routine is available.
?S:.
?C:HAS_STRTOLD_L:
?C: This symbol, if defined, indicates that the strtold_l routine is
?C: available to convert strings to long doubles.
?C:.
?H:#$d_strtold_l HAS_STRTOLD_L  /**/
?H:.
?LINT:set d_strtold_l
: see if strtold_l exists
set strtold_l d_strtold_l
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_strtold_l.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_atanh: Inlibc
?MAKE: -pick add $@ %<
?S:d_atanh:
?S: This variable conditionally defines the HAS_ATANH symbol, which
?S: indicates to the C program that the atanh() routine is available.
?S:.
?C:HAS_ATANH:
?C: This symbol, if defined, indicates that the atanh routine is
?C: available to do the inverse hyperbolic tangent function.
?C:.
?H:#$d_atanh HAS_ATANH  /**/
?H:.
?LINT:set d_atanh
: see if atanh exists
```

```
set atanh d_atanh
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_atanh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_quadmath: Inhdr
?MAKE: -pick add $@ %<
?S:i_quadmath:
?S: This variable conditionally defines I_QUADMATH, which indicates
?S: to the C program that it should include <quadmath.h>.
?S:.
?C:I_QUADMATH:
?C: This symbol, if defined, indicates that <quadmath.h> exists and
?C: should be included.
?C:.
?H:#$i_quadmath I_QUADMATH  /**/
?H:.
?LINT:set i_quadmath
: see if this is a quadmath.h system
set quadmath.h i_quadmath
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_quadmath.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_libutil.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_libutil: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_libutil:
?S: This variable conditionally defines the I_LIBUTIL symbol, and indicates
?S: whether a C program should include <libutil.h>.
?S:.
?C:I_LIBUTIL:
?C: This symbol, if defined, indicates that <libutil.h> exists and
```

```
?C: should be included.
?C:.
?H:#$i_libutil I_LIBUTIL  /**/
?H:.
?LINT:set i_libutil
: see if this is a libutil.h system
set libutil.h i_libutil
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_libutil.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysvfs.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysvfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysvfs:
?S: This variable conditionally defines the I_SYSVFS symbol,
?S: and indicates whether a C program should include <sys/vfs.h>.
?S:.
?C:I_SYS_VFS:
?C: This symbol, if defined, indicates that <sys/vfs.h> exists and
?C: should be included.
?C:.
?H:#$i_sysvfs I_SYS_VFS  /**/
?H:.
?LINT:set i_sysvfs
: see if this is a sys/vfs.h system
set sys/vfs.h i_sysvfs
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysvfs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_socks5_init: Inlibc
?MAKE: -pick add $@ %<
?S:d_socks5_init:
?S: This variable conditionally defines the HAS_SOCKS5_INIT symbol, which
?S: indicates to the C program that the socks5_init() routine is available.
?S:.
?C:HAS_SOCKS5_INIT:
?C: This symbol, if defined, indicates that the socks5_init routine is
?C: available to initialize SOCKS 5.
?C:.
?H:#$d_socks5_init HAS_SOCKS5_INIT  /**/
?H:.
?LINT:set d_socks5_init
: see if socks5_init exists
set socks5_init d_socks5_init
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_socks5_init.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_hasmntopt: Inlibc
?MAKE: -pick add $@ %<
?S:d_hasmntopt:
?S: This variable conditionally defines the HAS_HASMNTOPT symbol, which
?S: indicates to the C program that the hasmntopt() routine is available
?S: to query the mount options of file systems.
?S:.
?C:HAS_HASMNTOPT:
?C: This symbol, if defined, indicates that the hasmntopt routine is
?C: available to query the mount options of file systems.
?C:.
?H:#$d_hasmntopt HAS_HASMNTOPT  /**/
?H:.
?LINT:set d_hasmntopt
: see if hasmntopt exists
set hasmntopt d_hasmntopt
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_hasmntopt.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: getopt.C,v 3.0.1.1 1994/01/24 13:58:40 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* Original Author: unknown, got this off net.sources
*
* $Log: getopt.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:40  ram
* patch16: created
*
*/
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/getopt.C
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_scalbn: Inlibc
?MAKE: -pick add $@ %<
?S:d_scalbn:
?S: This variable conditionally defines the HAS_SCALBN symbol, which
?S: indicates to the C program that the scalbn() routine is available.
?S:.
?C:HAS_SCALBN:
?C: This symbol, if defined, indicates that the scalbn routine is
?C: available to multiply floating-point number by integral power
?C: of radix.
?C:.
?H:#$d_scalbn HAS_SCALBN  /**/
?H:.
?LINT:set d_scalbn
: see if scalbn exists
```

```
set scalbn d_scalbn
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_scalbn.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_lgamma_r: Inlibc
?MAKE: -pick add $@ %<
?S:d_lgamma_r:
?S: This variable conditionally defines the HAS_LGAMMA_R symbol, which
?S: indicates to the C program that the lgamma_r() routine is available
?S: for the log gamma function, without using the global signgam variable.
?S:.
?C:HAS_LGAMMA_R:
?C: This symbol, if defined, indicates that the lgamma_r routine is
?C: available to do the log gamma function without using the global
?C: signgam variable.
?C:.
?H:#$d_lgamma_r HAS_LGAMMA_R  /**/
?H:.
?LINT:set d_lgamma_r
: see if lgamma_r exists
set lgamma_r d_lgamma_r
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lgamma_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysmount.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysmount: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysmount:
?S: This variable conditionally defines the I_SYSMOUNT symbol,
?S: and indicates whether a C program should include <sys/mount.h>.
?S:.
```

```
?C:I_SYS_MOUNT:
?C: This symbol, if defined, indicates that <sys/mount.h> exists and
?C: should be included.
?C:.
?H:#$i_sysmount I_SYS_MOUNT  /**/
?H:.
?LINT:set i_sysmount
: see if this is a sys/mount.h system
set sys/mount.h i_sysmount
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysmount.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_nextafter: Inlibc
?MAKE: -pick add $@ %<
?S:d_nextafter:
?S: This variable conditionally defines HAS_NEXTAFTER if nextafter()
?S: is available to return the next machine representable double from
?S: x in direction y.
?S:.
?C:HAS_NEXTAFTER:
?C: This symbol, if defined, indicates that the nextafter routine is
?C: available to return the next machine representable double from
?C: x in direction y.
?C:.
?H:#$d_nextafter HAS_NEXTAFTER  /**/
?H:.
?LINT:set d_nextafter
: see if nextafter exists
set nextafter d_nextafter
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_nextafter.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_truncl: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_truncl:
?S: This variable conditionally defines the HAS_TRUNCL symbol, which
?S: indicates to the C program that the truncl() routine is available
?S: to round long doubles towards zero. If copysignl is also present,
?S: we can emulate modfl.
?S:.
?C:HAS_TRUNCL :
?C: This symbol, if defined, indicates that the truncl routine is
?C: available. If copysignl is also present we can emulate modfl.
?C:.
?H:#$d_truncl HAS_TRUNCL  /**/
?H:.
?LINT:set d_truncl
: see if truncl exists
set truncl d_truncl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_truncl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_finite: Inlibc
?MAKE: -pick add $@ %<
?S:d_finite:
?S: This variable conditionally defines the HAS_FINITE symbol, which
?S: indicates to the C program that the finite() routine is available.
?S:.
?C:HAS_FINITE:
?C: This symbol, if defined, indicates that the finite routine is
?C: available to check whether a double is finite (non-infinity non-NaN).
?C:.
?H:#$d_finite HAS_FINITE  /**/
?H:.
?LINT:set d_finite
: see if finite exists
set finite d_finite
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/U/perl/d_finite.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_finitel: Inlibc
?MAKE: -pick add $@ %<
?S:d_finitel:
?S: This variable conditionally defines the HAS_FINITEL symbol, which
?S: indicates to the C program that the finitel() routine is available.
?S:.
?C:HAS_FINITEL:
?C: This symbol, if defined, indicates that the finitel routine is
?C: available to check whether a long double is finite
?C: (non-infinity non-NaN).
?C:.
?H:#$d_finitel HAS_FINITEL  /**/
?H:.
?LINT:set d_finitel
: see if finitel exists
set finitel d_finitel
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_finitel.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysuio.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysuio: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysuio:
?S: This variable conditionally defines the I_SYSUIO symbol, and indicates
?S: whether a C program should include <sys/uio.h>.
?S:.
?C:I_SYSUIO:
?C: This symbol, if defined, indicates that <sys/uio.h> exists and
```

?C: should be included.
?C:.
?H:#$i_sysuio I_SYSUIO /**/
?H:.
?LINT:set i_sysuio
: see if this is a sys/uio.h system
set sys/uio.h i_sysuio
eval $inhdr

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_sysuio.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: i_shadow.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_prot: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_prot:
?S: This variable conditionally defines the I_PROT symbol, and indicates
?S: whether a C program should include <prot.h>.
?S:.
?C:I_PROT:
?C: This symbol, if defined, indicates that <prot.h> exists and
?C: should be included.
?C:.
?H:#$i_prot I_PROT /**/
?H:.
?LINT:set i_prot
: see if this is a prot.h system
set prot.h i_prot
eval $inhdr

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_prot.U
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:
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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_unordered: Inlibc
?MAKE: -pick add $@ %<
?S:d_unordered:
?S: This variable conditionally defines the HAS_UNORDERED symbol, which
?S: indicates to the C program that the unordered() routine is available.
?S:.
?C:HAS_UNORDERED:
?C: This symbol, if defined, indicates that the unordered routine is
?C: available to check whether two doubles are unordered
?C: (effectively: whether either of them is NaN)
?C:.
?H:#$d_unordered HAS_UNORDERED  /**/
?H:.
?LINT:set d_unordered
: see if unordered exists
set unordered d_unordered
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_unordered.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fmax: Inlibc
?MAKE: -pick add $@ %<
?S:d_fmax:
?S: This variable conditionally defines the HAS_FMAX symbol, which
?S: indicates to the C program that the fmax() routine is available.
?S:.
?C:HAS_FMAX:
?C: This symbol, if defined, indicates that the fmax routine is
?C: available to do the maximum function.
?C:.
?H:#$d_fmax HAS_FMAX  /**/
?H:.
?LINT:set d_fmax
: see if fmax exists
set fmax d_fmax
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fmax.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysstatvfs.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysstatvfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysstatvfs:
?S: This variable conditionally defines the I_SYSSTATVFS symbol,
?S: and indicates whether a C program should include <sys/statvfs.h>.
?S:.
?C:I_SYS_STATVFS:
?C: This symbol, if defined, indicates that <sys/statvfs.h> exists and
?C: should be included.
?C:.
?H:#$i_sysstatvfs I_SYS_STATVFS  /**/
?H:.
?LINT:set i_sysstatvfs
: see if this is a sys/statvfs.h system
set sys/statvfs.h i_sysstatvfs
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysstatvfs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_exp2: Inlibc
?MAKE: -pick add $@ %<
?S:d_exp2:
?S: This variable conditionally defines the HAS_EXP2 symbol, which
?S: indicates to the C program that the exp2() routine is available.
?S:.
?C:HAS_EXP2:
?C: This symbol, if defined, indicates that the exp2 routine is
?C: available to do the 2**x function.
?C:.
?H:#$d_exp2 HAS_EXP2  /**/
?H:.
?LINT:set d_exp2
: see if exp2 exists
```

```
set exp2 d_exp2
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_exp2.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2009 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_inetntop: Inlibc
?MAKE: -pick add $@ %<
?S:d_inetntop:
?S: This variable conditionally defines the HAS_INETNTOP symbol,
?S: which indicates to the C program that the inet_ntop() function
?S: is available.
?S:.
?C:HAS_INETNTOP:
?C: This symbol, if defined, indicates that the inet_ntop() function
?C: is available to parse IPv4 and IPv6 strings.
?C:.
?H:#$d_inetntop HAS_INETNTOP  /**/
?H:.
?LINT:set d_inetntop
: see if inet_ntop exists
set inet_ntop d_inetntop
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_inetntop.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_expm1: Inlibc
?MAKE: -pick add $@ %<
?S:d_expm1:
?S: This variable conditionally defines the HAS_EXPM1 symbol, which
?S: indicates to the C program that the expm1() routine is available.
?S:.
?C:HAS_EXPM1:
```

```
?C: This symbol, if defined, indicates that the expm1 routine is
?C: available to do the exp(x) - 1 when x is near 1 function.
?C:.
?H:#$d_expm1 HAS_EXPM1  /**/
?H:.
?LINT:set d_expm1
: see if expm1 exists
set expm1 d_expm1
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_expm1.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2005 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_clearenv: Inlibc
?MAKE: -pick add $@ %<
?S:d_clearenv:
?S: This variable conditionally defines the HAS_CLEARENV symbol, which
?S: indicates to the C program that the clearenv () routine is available.
?S:.
?C:HAS_CLEARENV:
?C: This symbol, if defined, indicates that the clearenv () routine is
?C: available for use.
?C:.
?H:#$d_clearenv HAS_CLEARENV  /**/
?H:.
?LINT:set d_clearenv
: see if clearenv exists
set clearenv d_clearenv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_clearenv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_sendmsg: Inlibc
?MAKE: -pick add $@ %<
?S:d_sendmsg:
?S: This variable conditionally defines the HAS_SENDMSG symbol, which
?S: indicates to the C program that the sendmsg() routine is available.
?S:.
?C:HAS_SENDMSG:
?C: This symbol, if defined, indicates that the sendmsg routine is
?C: available to send structured socket messages.
?C:.
?H:#$d_sendmsg HAS_SENDMSG  /**/
?H:.
?LINT:set d_sendmsg
: see if sendmsg exists
set sendmsg d_sendmsg
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sendmsg.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_accessx: Inlibc
?MAKE: -pick add $@ %<
?S:d_accessx:
?S: This variable conditionally defines the HAS_ACCESSX symbol, which
?S: indicates to the C program that the accessx() routine is available.
?S:.
?C:HAS_ACCESSX :
?C: This symbol, if defined, indicates that the accessx routine is
?C: available to do extended access checks.
?C:.
?H:#$d_accessx HAS_ACCESSX  /**/
?H:.
?LINT:set d_accessx
: see if accessx exists
set accessx d_accessx
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/acl/d_accessx.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_readv: Inlibc
?MAKE: -pick add $@ %<
?S:d_readv:
?S: This variable conditionally defines the HAS_READV symbol, which
?S: indicates to the C program that the readv() routine is available.
?S:.
?C:HAS_READV:
?C: This symbol, if defined, indicates that the readv routine is
?C: available to do gather reads.  You will also need <sys/uio.h>
?C: and there I_SYSUIO.
?C:.
?H:#$d_readv HAS_READV  /**/
?H:.
?LINT:set d_readv
: see if readv exists
set readv d_readv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_readv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_asinh: Inlibc
?MAKE: -pick add $@ %<
?S:d_asinh:
?S: This variable conditionally defines the HAS_ASINH symbol, which
?S: indicates to the C program that the asinh() routine is available.
?S:.
?C:HAS_ASINH:
?C: This symbol, if defined, indicates that the asinh routine is
?C: available to do the inverse hyperbolic sine function.
```

```
?C:.
?H:#$d_asinh HAS_ASINH  /**/
?H:.
?LINT:set d_asinh
: see if asinh exists
set asinh d_asinh
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_asinh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: baserev.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: baserev.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:baserev: Null
?MAKE: -pick wipe $@ %<
?S:baserev:
?S: The base revision level of this package, from the .package file.
?S:.
: set the base revision
baserev=<BASEREV>
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/baserev.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_scalbnl: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_scalbnl:
?S: This variable conditionally defines the HAS_SCALBNL symbol, which
?S: indicates to the C program that the scalbnl() routine is available.
?S: If ilogbl is also present we can emulate frexpl.
?S:.
?C:HAS_SCALBNL:
?C: This symbol, if defined, indicates that the scalbnl routine is
?C: available.  If ilogbl is also present we can emulate frexpl.
?C:.
?H:#$d_scalbnl HAS_SCALBNL  /**/
?H:.
?LINT:set d_scalbnl
: see if scalbnl exists
set scalbnl d_scalbnl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_scalbnl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isinfl: Inlibc
?MAKE: -pick add $@ %<
?S:d_isinfl:
?S: This variable conditionally defines the HAS_ISINFL symbol, which
?S: indicates to the C program that the isinfl() routine is available.
?S:.
?C:HAS_ISINFL:
?C: This symbol, if defined, indicates that the isinfl routine is
?C: available to check whether a long double is an infinity.
?C:.
?H:#$d_isinfl HAS_ISINFL  /**/
?H:.
?LINT:set d_isinfl
: see if isinfl exists
set isinfl d_isinfl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/U/perl/d_isinfl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the WRITEME file.
?RCS:
?MAKE:d_writev: Inlibc
?MAKE: -pick add $@ %<
?S:d_writev:
?S: This variable conditionally defines the HAS_WRITEV symbol, which
?S: indicates to the C program that the writev() routine is available.
?S:.
?C:HAS_WRITEV:
?C: This symbol, if defined, indicates that the writev routine is
?C: available to do scatter writes.
?C:.
?H:#$d_writev HAS_WRITEV  /**/
?H:.
?LINT:set d_writev
: see if writev exists
set writev d_writev
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_writev.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS:
?MAKE:i_stdint: Inhdr
?MAKE: -pick add $@ %<
?S:i_stdint:
?S: This variable conditionally defines the I_STDINT symbol, which
?S: indicates to the C program that <stdint.h> exists and should
?S: be included.
?S:.
?C:I_STDINT:
?C: This symbol, if defined, indicates that <stdint.h> exists and
?C: should be included.
?C:.
?H:#$i_stdint I_STDINT  /**/
?H:.
```

```
?LINT:set i_stdint
: see if stdint is available
set stdint.h i_stdint
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_stdint.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysmode.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysmode: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysmode:
?S: This variable conditionally defines the I_SYSMODE symbol,
?S: and indicates whether a C program should include <sys/mode.h>.
?S:.
?C:I_SYSMODE:
?C: This symbol, if defined, indicates that <sys/mode.h> exists and
?C: should be included.
?C:.
?H:#$i_sysmode I_SYSMODE  /**/
?H:.
?LINT:set i_sysmode
: see if this is a sys/mode.h system
set sys/mode.h i_sysmode
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysmode.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_lround: Inlibc
?MAKE: -pick add $@ %<
?S:d_lround:
?S: This variable conditionally defines the HAS_LROUND symbol, which
?S: indicates to the C program that the lround() routine is available
?S: to return the integral value nearest to x.
```

```
?S:.
?C:HAS_LROUND:
?C: This symbol, if defined, indicates that the lround routine is
?C: available to return the nearest integral value.
?C:.
?H:#$d_lround HAS_LROUND  /**/
?H:.
?LINT:set d_lround
: see if lround exists
set lround d_lround
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lround.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_setitimer: Inlibc
?MAKE: -pick add $@ %<
?S:d_setitimer:
?S: This variable conditionally defines the HAS_SETITIMER symbol, which
?S: indicates to the C program that the setitimer() routine is available.
?S:.
?C:HAS_SETITIMER:
?C: This symbol, if defined, indicates that the setitimer routine is
?C: available to set interval timers.
?C:.
?H:#$d_setitimer HAS_SETITIMER  /**/
?H:.
?LINT:set d_setitimer
: see if setitimer exists
set setitimer d_setitimer
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_setitimer.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
?MAKE:d_lrintl: Inlibc
?MAKE: -pick add $@ %<
?S:d_lrintl:
?S: This variable conditionally defines the HAS_LRINTL symbol, which
?S: indicates to the C program that the lrintl() routine is available
?S: to return the integral value closest to a long double (according
?S: to the current rounding mode).
?S:.
?C:HAS_LRINTL:
?C: This symbol, if defined, indicates that the lrintl routine is
?C: available to return the integral value closest to a long double
?C: (according to the current rounding mode).
?C:.
?H:#$d_lrintl HAS_LRINTL  /**/
?H:.
?LINT:set d_lrintl
: see if lrintl exists
set lrintl d_lrintl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lrintl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sunmath.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sunmath: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sunmath:
?S: This variable conditionally defines the I_SUNMATH symbol, and indicates
?S: whether a C program should include <sunmath.h>.
?S:.
?C:I_SUNMATH:
?C: This symbol, if defined, indicates that <sunmath.h> exists and
?C: should be included.
?C:.
?H:#$i_sunmath I_SUNMATH  /**/
?H:.
?LINT:set i_sunmath
: see if this is a sunmath.h system
set sunmath.h i_sunmath
```

```
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sunmath.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2009 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getaddrinfo: Inlibc
?MAKE: -pick add $@ %<
?S:d_getaddrinfo:
?S: This variable conditionally defines the HAS_GETADDRINFO symbol,
?S: which indicates to the C program that the getaddrinfo() function
?S: is available.
?S:.
?C:HAS_GETADDRINFO:
?C: This symbol, if defined, indicates that the getaddrinfo() function
?C: is available for use.
?C:.
?H:#$d_getaddrinfo HAS_GETADDRINFO  /**/
?H:.
?LINT:set d_getaddrinfo
: see if getaddrinfo exists
set getaddrinfo d_getaddrinfo
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getaddrinfo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_remainder: Inlibc
?MAKE: -pick add $@ %<
?S:d_remainder:
?S: This variable conditionally defines the HAS_REMAINDER symbol, which
?S: indicates to the C program that the remainder() routine is available.
?S:.
?C:HAS_REMAINDER:
?C: This symbol, if defined, indicates that the remainder routine is
```

```
?C: available to return the floating-point remainder.
?C:.
?H:#$d_remainder HAS_REMAINDER  /**/
?H:.
?LINT:set d_remainder
: see if remainder exists
set remainder d_remainder
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_remainder.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fseeko: Inlibc longsize
?MAKE: -pick add $@ %<
?S:d_fseeko:
?S: This variable conditionally defines the HAS_FSEEKO symbol, which
?S: indicates to the C program that the fseeko() routine is available.
?S:.
?C:HAS_FSEEKO:
?C: This symbol, if defined, indicates that the fseeko routine is
?C: available to fseek beyond 32 bits (useful for ILP32 hosts).
?C:.
?H:#$d_fseeko HAS_FSEEKO  /**/
?H:.
?LINT:set d_fseeko
: see if fseeko exists
set fseeko d_fseeko
eval $inlibc
case "$longsize" in
8) echo "(Your long is 64 bits, so you could use fseek.)" ;;
esac
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fseeko.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
?MAKE:d_logb: Inlibc
?MAKE: -pick add $@ %<
?S:d_logb:
?S: This variable conditionally defines the HAS_LOGB symbol, which
?S: indicates to the C program that the logb() routine is available
?S: to extract the exponent of x.
?S:.
?C:HAS_LOGB:
?C: This symbol, if defined, indicates that the logb routine is
?C: available to do the logb function.
?C:.
?H:#$d_logb HAS_LOGB  /**/
?H:.
?LINT:set d_logb
: see if logb exists
set logb d_logb
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_logb.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rename.C,v 3.0.1.1 1994/01/24 13:58:42 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* $Log: rename.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:42  ram
* patch16: created
*
*/
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/rename.C
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
?MAKE:d_nexttoward: Inlibc
?MAKE: -pick add $@ %<
?S:d_nexttoward:
?S: This variable conditionally defines HAS_NEXTTOWARD if nexttoward()
?S: is available to return the next machine representable long double from
?S: x in direction y.
?S:.
?C:HAS_NEXTTOWARD:
?C: This symbol, if defined, indicates that the nexttoward routine is
?C: available to return the next machine representable long double from
?C: x in direction y.
?C:.
?H:#$d_nexttoward HAS_NEXTTOWARD  /**/
?H:.
?LINT:set d_nexttoward
: see if nexttoward exists
set nexttoward d_nexttoward
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_nexttoward.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isfinitel: Inlibc
?MAKE: -pick add $@ %<
?S:d_isfinitel:
?S: This variable conditionally defines the HAS_ISFINITEL symbol, which
?S: indicates to the C program that the isfinitel() routine is available.
?S:.
?C:HAS_ISFINITEL:
?C: This symbol, if defined, indicates that the isfinitel routine is
?C: available to check whether a long double is finite.
?C: (non-infinity non-NaN).
?C:.
?H:#$d_isfinitel HAS_ISFINITEL  /**/
?H:.
?LINT:set d_isfinitel
: see if isfinitel exists
set isfinitel d_isfinitel
```

```
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_isfinitel.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fdim: Inlibc
?MAKE: -pick add $@ %<
?S:d_fdim:
?S: This variable conditionally defines the HAS_FDIM symbol, which
?S: indicates to the C program that the fdim() routine is available.
?S:.
?C:HAS_FDIM:
?C: This symbol, if defined, indicates that the fdim routine is
?C: available to do the positive difference function.
?C:.
?H:#$d_fdim HAS_FDIM  /**/
?H:.
?LINT:set d_fdim
: see if fdim exists
set fdim d_fdim
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fdim.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_netdb.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_netdb: Inhdr
?MAKE: -pick add $@ %<
?S:i_netdb:
?S: This variable conditionally defines the I_NETDB symbol, and indicates
?S: whether a C program should include <netdb.h>.
?S:.
?C:I_NETDB:
?C: This symbol, if defined, indicates that <netdb.h> exists and
?C: should be included.
```

```
?C:.
?H:#$i_netdb I_NETDB  /**/
?H:.
?LINT:set i_netdb
: see if this is a netdb.h system
set netdb.h i_netdb
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_netdb.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_bfd.U,v $
?RCS:
?RCS: Copyright (c) 2014 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_bfd: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_bfd:
?S: This variable conditionally defines the I_BFD symbol, and
?S: indicates whether a C program can include <bfd.h>.
?S:.
?C:I_BFD:
?C: This symbol, if defined, indicates that <bfd.h> exists and
?C: can be included.
?C:.
?H:#$i_bfd I_BFD  /**/
?H:.
?LINT:set i_bfd
: see if this is a bfd.h system
set bfd.h i_bfd
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_bfd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_shadow.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
?MAKE:i_shadow: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_shadow:
?S: This variable conditionally defines the I_SHADOW symbol, and indicates
?S: whether a C program should include <shadow.h>.
?S:.
?C:I_SHADOW:
?C: This symbol, if defined, indicates that <shadow.h> exists and
?C: should be included.
?C:.
?H:#$i_shadow I_SHADOW  /**/
?H:.
?LINT:set i_shadow
: see if this is a shadow.h system
set shadow.h i_shadow
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_shadow.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_socks.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_socks: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_socks:
?S: This variable conditionally defines the I_SOCKS symbol, and indicates
?S: whether a C program should include <socks.h>.
?S:.
?C:I_SOCKS:
?C: This symbol, if defined, indicates that <socks.h> exists and
?C: should be included.
?C:.
?H:#$i_socks I_SOCKS  /**/
?H:.
?LINT:set i_socks
: see if this is a socks.h system
set socks.h i_socks
eval $inhdr
```

Found in path(s):

* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_socks.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_erf: Inlibc
?MAKE: -pick add $@ %<
?S:d_erf:
?S: This variable conditionally defines the HAS_ERF symbol, which
?S: indicates to the C program that the erf() routine is available.
?S:.
?C:HAS_ERF:
?C: This symbol, if defined, indicates that the erf routine is
?C: available to do the error function.
?C:.
?H:#$d_erf HAS_ERF  /**/
?H:.
?LINT:set d_erf
: see if erf exists
set erf d_erf
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_erf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_log1p: Inlibc
?MAKE: -pick add $@ %<
?S:d_log1p:
?S: This variable conditionally defines the HAS_LOG1P symbol, which
?S: indicates to the C program that the logp1() routine is available
?S: to compute log(1 + x) for values of x close to zero.
?S:.
?C:HAS_LOG1P:
?C: This symbol, if defined, indicates that the log1p routine is
?C: available to do the logarithm of 1 plus argument function.
?C:.
?H:#$d_log1p HAS_LOG1P  /**/
?H:.
?LINT:set d_log1p
: see if log1p exists
set log1p d_log1p
```

```
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_log1p.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_atolf: Inlibc
?MAKE: -pick add $@ %<
?S:d_atolf:
?S: This variable conditionally defines the HAS_ATOLF symbol, which
?S: indicates to the C program that the atolf() routine is available.
?S:.
?C:HAS_ATOLF:
?C: This symbol, if defined, indicates that the atolf routine is
?C: available to convert strings into long doubles.
?C:.
?H:#$d_atolf HAS_ATOLF  /**/
?H:.
?LINT:set d_atolf
: see if atolf exists
set atolf d_atolf
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/atolf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_nan: Inlibc
?MAKE: -pick add $@ %<
?S:d_nan:
?S: This variable conditionally defines HAS_NAN if nan() is
?S: available to generate NaN.
?S:.
?C:HAS_NAN:
?C: This symbol, if defined, indicates that the nan routine is
?C: available to generate NaN.
```

```
?C:.
?H:#$d_nan HAS_NAN  /**/
?H:.
?LINT:set d_nan
: see if nan exists
set nan d_nan
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_nan.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_qgcvt: Inlibc
?MAKE: -pick add $@ %<
?S:d_qgcvt:
?S: This variable conditionally defines the HAS_QGCVT symbol, which
?S: indicates to the C program that the qgcvt() routine is available.
?S:.
?C:HAS_QGCVT:
?C: This symbol, if defined, indicates that the qgcvt routine is
?C: available to convert long doubles ("quad doubles") to strings.
?C: This is a low-level routine hopefully faster than sprintf.
?C:.
?H:#$d_qgcvt HAS_QGCVT  /**/
?H:.
?LINT:set d_qgcvt
: see if qgcvt exists
set qgcvt d_qgcvt
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_qgcvt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fstatfs : Inlibc
?MAKE: -pick add $@ %<
?S:d_fstatfs:
?S: This variable conditionally defines the HAS_FSTATFS symbol, which
?S: indicates to the C program that the fstatfs() routine is available.
?S:.
?C:HAS_FSTATFS:
?C: This symbol, if defined, indicates that the fstatfs routine is
?C: available to stat filesystems by file descriptors.
?C:.
?H:#$d_fstatfs HAS_FSTATFS  /**/
?H:.
?LINT:set d_fstatfs
: see if fstatfs exists
set fstatfs d_fstatfs
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fstatfs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_mkdtemp: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkdtemp:
?S: This variable conditionally defines the HAS_MKDTEMP symbol, which
?S: indicates to the C program that the mkdtemp() routine is available
?S: to exclusively create a uniquely named temporary directory.
?S:.
?C:HAS_MKDTEMP :
?C: This symbol, if defined, indicates that the mkdtemp routine is
?C: available to exclusively create a uniquely named temporary directory.
?C:.
?H:#$d_mkdtemp HAS_MKDTEMP  /**/
?H:.
?LINT:set d_mkdtemp
: see if mkdtemp exists
set mkdtemp d_mkdtemp
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_mkdtemp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fdclose: Inlibc
?MAKE: -pick add $@ %<
?S:d_fdclose:
?S: This variable conditionally defines the HAS_FDCLOSE symbol, which
?S: indicates to the C program that the fdclose() routine is available.
?S:.
?C:HAS_FDCLOSE:
?C: This symbol, if defined, indicates that the fdclose routine is
?C: available to free a FILE structure without closing the underlying
?C: file descriptor.  This function appeared in FreeBSD 10.2.
?C:.
?H:#$d_fdclose HAS_FDCLOSE  /**/
?H:.
?LINT:set d_fdclose
: see if fdclose exists
set fdclose d_fdclose
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fdclose.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_sockatmark: Inlibc
?MAKE: -pick add $@ %<
?S:d_sockatmark:
?S: This variable conditionally defines the HAS_SOCKATMARK symbol, which
?S: indicates to the C program that the sockatmark() routine is available.
?S:.
?C:HAS_SOCKATMARK:
?C: This symbol, if defined, indicates that the sockatmark routine is
?C: available to test whether a socket is at the out-of-band mark.
```

```
?C:.
?H:#$d_sockatmark HAS_SOCKATMARK  /**/
?H:.
?LINT:set d_sockatmark
: see if sockatmark exists
set sockatmark d_sockatmark
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sockatmark.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2017 Dagfinn Ilmari Mannsåker
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strnlen: Inlibc
?MAKE: -pick add $@ %<
?S:d_strnlen:
?S: This variable conditionally defines the HAS_STRNLEN symbol, which
?S: indicates to the C program that the strnlen () routine is available.
?S:.
?C:HAS_STRNLEN:
?C: This symbol, if defined, indicates that the strnlen () routine is
?C: available to check the length of a string up to a maximum.
?C:.
?H:#$d_strnlen HAS_STRNLEN  /**/
?H:.
?LINT:set d_strnlen
: see if strnlen exists
set strnlen d_strnlen
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strnlen.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_round: Inlibc
?MAKE: -pick add $@ %<
?S:d_round:
```

```
?S: This variable conditionally defines the HAS_ROUND symbol, which
?S: indicates to the C program that the round() routine is available.
?S:.
?C:HAS_ROUND:
?C: This symbol, if defined, indicates that the round routine is
?C: available to round to nearest integer, away from zero.
?C:.
?H:#$d_round HAS_ROUND  /**/
?H:.
?LINT:set d_round
: see if round exists
set round d_round
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_round.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_fp_class.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_fp_class: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_fp_class:
?S: This variable conditionally defines the I_FP_CLASS symbol, and indicates
?S: whether a C program should include <fp_class.h>.
?S:.
?C:I_FP_CLASS:
?C: This symbol, if defined, indicates that <fp_class.h> exists and
?C: should be included.
?C:.
?H:#$i_fp_class I_FP_CLASS  /**/
?H:.
?LINT:set i_fp_class
: see if this is a fp_class.h system
set fp_class.h i_fp_class
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_fp_class.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_setproctitle: Inlibc
?MAKE: -pick add $@ %<
?S:d_setproctitle:
?S: This variable conditionally defines the HAS_SETPROCTITLE symbol,
?S: which indicates to the C program that the setproctitle() routine
?S: is available.
?S:.
?C:HAS_SETPROCTITLE:
?C: This symbol, if defined, indicates that the setproctitle routine is
?C: available to set process title.
?C:.
?H:#$d_setproctitle HAS_SETPROCTITLE  /**/
?H:.
?LINT:set d_setproctitle
: see if setproctitle exists
set setproctitle d_setproctitle
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_setproctitle.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_recvmsg: Inlibc
?MAKE: -pick add $@ %<
?S:d_recvmsg:
?S: This variable conditionally defines the HAS_RECVMSG symbol, which
?S: indicates to the C program that the recvmsg() routine is available.
?S:.
?C:HAS_RECVMSG:
?C: This symbol, if defined, indicates that the recvmsg routine is
?C: available to send structured socket messages.
?C:.
?H:#$d_recvmsg HAS_RECVMSG  /**/
```

```
?H:.
?LINT:set d_recvmsg
: see if recvmsg exists
set recvmsg d_recvmsg
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_recvmsg.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2009 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_inetpton: Inlibc
?MAKE: -pick add $@ %<
?S:d_inetpton:
?S: This variable conditionally defines the HAS_INETPTON symbol,
?S: which indicates to the C program that the inet_pton() function
?S: is available.
?S:.
?C:HAS_INETPTON:
?C: This symbol, if defined, indicates that the inet_pton() function
?C: is available to parse IPv4 and IPv6 strings.
?C:.
?H:#$d_inetpton HAS_INETPTON  /**/
?H:.
?LINT:set d_inetpton
: see if inet_pton exists
set inet_pton d_inetpton
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_inetpton.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
```

```
?MAKE:d_ftello: Inlibc longsize
?MAKE: -pick add $@ %<
?S:d_ftello:
?S: This variable conditionally defines the HAS_FTELLO symbol, which
?S: indicates to the C program that the ftello() routine is available.
?S:.
?C:HAS_FTELLO:
?C: This symbol, if defined, indicates that the ftello routine is
?C: available to ftell beyond 32 bits (useful for ILP32 hosts).
?C:.
?H:#$d_ftello HAS_FTELLO  /**/
?H:.
?LINT:set d_ftello
: see if ftello exists
set ftello d_ftello
eval $inlibc
case "$longsize" in
8) echo "(Your long is 64 bits, so you could use ftell.)" ;;
esac
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_ftello.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_fp.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_fp: Inhdr
?MAKE: -pick add $@ %<
?S:i_fp:
?S: This variable conditionally defines the I_FP symbol, and indicates
?S: whether a C program should include <fp.h>.
?S:.
?C:I_FP:
?C: This symbol, if defined, indicates that <fp.h> exists and
?C: should be included.
?C:.
?H:#$i_fp I_FP  /**/
?H:.
?LINT:set i_fp
: see if this is a fp.h system
set fp.h i_fp
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_fp.U
No license file was found, but licenses were detected in source scan.

* Feel free to modify any of this as the need arises. Note, however,

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/metaconfig.html
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dup2.C,v 3.0.1.1 1994/01/24 13:58:37 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* Original Author: Larry Wall <lwall@netlabs.com>
*
* $Log: dup2.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:37  ram
* patch16: created
*
*/
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/dup2.C
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getmnt: Inlibc
?MAKE: -pick add $@ %<
?S:d_getmnt:
?S: This variable conditionally defines the HAS_GETMNT symbol, which
```

```
?S: indicates to the C program that the getmnt() routine is available
?S: to retrieve one or more mount info blocks by filename.
?S:.
?C:HAS_GETMNT:
?C: This symbol, if defined, indicates that the getmnt routine is
?C: available to get filesystem mount info by filename.
?C:.
?H:#$d_getmnt HAS_GETMNT  /**/
?H:.
?LINT:set d_getmnt
: see if getmnt exists
set getmnt d_getmnt
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getmnt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_lrint: Inlibc
?MAKE: -pick add $@ %<
?S:d_lrint:
?S: This variable conditionally defines the HAS_LRINT symbol, which
?S: indicates to the C program that the lrint() routine is available
?S: to return the integral value closest to a double (according
?S: to the current rounding mode).
?S:.
?C:HAS_LRINT:
?C: This symbol, if defined, indicates that the lrint routine is
?C: available to return the integral value closest to a double
?C: (according to the current rounding mode).
?C:.
?H:#$d_lrint HAS_LRINT  /**/
?H:.
?LINT:set d_lrint
: see if lrint exists
set lrint d_lrint
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lrint.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getitimer: Inlibc
?MAKE: -pick add $@ %<
?S:d_getitimer:
?S: This variable conditionally defines the HAS_GETITIMER symbol, which
?S: indicates to the C program that the getitimer() routine is available.
?S:.
?C:HAS_GETITIMER:
?C: This symbol, if defined, indicates that the getitimer routine is
?C: available to return interval timers.
?C:.
?H:#$d_getitimer HAS_GETITIMER  /**/
?H:.
?LINT:set d_getitimer
: see if getitimer exists
set getitimer d_getitimer
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getitimer.U
No license file was found, but licenses were detected in source scan.

```
*  You may redistribute only under the terms of the Artistic Licence,
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/files/Jmake.tmpl
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_log2: Inlibc
?MAKE: -pick add $@ %<
?S:d_log2:
?S: This variable conditionally defines the HAS_LOG2 symbol, which
?S: indicates to the C program that the log2() routine is available
?S: to compute log base two.
?S:.
?C:HAS_LOG2:
?C: This symbol, if defined, indicates that the log2 routine is
?C: available to do the log2 function.
```

```
?C:.
?H:#$d_log2 HAS_LOG2  /**/
?H:.
?LINT:set d_log2
: see if log2 exists
set log2 d_log2
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_log2.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getcwd: Inlibc
?MAKE: -pick add $@ %<
?S:d_getcwd:
?S: This variable conditionally defines the HAS_GETCWD symbol, which
?S: indicates to the C program that the getcwd() routine is available
?S: to get the current working directory.
?S:.
?C:HAS_GETCWD :
?C: This symbol, if defined, indicates that the getcwd routine is
?C: available to get the current working directory.
?C:.
?H:#$d_getcwd HAS_GETCWD  /**/
?H:.
?LINT:set d_getcwd
: see if getcwd exists
set getcwd d_getcwd
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getcwd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_ieeefp.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_ieeefp: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_ieeefp:
?S: This variable conditionally defines the I_IEEEFP symbol, and indicates
?S: whether a C program should include <ieeefp.h>.
?S:.
?C:I_IEEEFP:
?C: This symbol, if defined, indicates that <ieeefp.h> exists and
?C: should be included.
?C:.
?H:#$i_ieeefp I_IEEEFP  /**/
?H:.
?LINT:set i_ieeefp
: see if this is a ieeefp.h system
case "$i_ieeefp" in
" ) set ieeefp.h i_ieeefp
    eval $inhdr
    ;;
esac
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_ieeefp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_copysignl: Inlibc
?MAKE: -pick add $@ %<
?S:d_copysignl:
?S: This variable conditionally defines the HAS_COPYSIGNL symbol, which
?S: indicates to the C program that the copysignl() routine is available.
?S: If aintl is also present we can emulate modfl.
?S:.
?C:HAS_COPYSIGNL:
?C: This symbol, if defined, indicates that the copysignl routine is
?C: available.  If aintl is also present we can emulate modfl.
?C:.
?H:#$d_copysignl HAS_COPYSIGNL  /**/
?H:.
?LINT:set d_copysignl
```

```
: see if copysignl exists
set copysignl d_copysignl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_copysignl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_ualarm: Inlibc
?MAKE: -pick add $@ %<
?S:d_ualarm:
?S: This variable conditionally defines the HAS_UALARM symbol, which
?S: indicates to the C program that the ualarm() routine is available.
?S:.
?C:HAS_UALARM:
?C: This symbol, if defined, indicates that the ualarm routine is
?C: available to do alarms with microsecond granularity.
?C:.
?H:#$d_ualarm HAS_UALARM  /**/
?H:.
?LINT:set d_ualarm
: see if ualarm exists
set ualarm d_ualarm
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_ualarm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fpgetround: Inlibc
?MAKE: -pick add $@ %<
?S:d_fpgetround:
?S: This variable conditionally defines HAS_FPGETROUND if fpgetround()
?S: is available to get the floating point rounding mode.
?S:.
?C:HAS_FPGETROUND:
```

```
?C: This symbol, if defined, indicates that the fpgetround routine is
?C: available to get the floating point rounding mode.
?C:.
?H:#$d_fpgetround HAS_FPGETROUND  /**/
?H:.
?LINT:set d_fpgetround
: see if fpgetround exists
set fpgetround d_fpgetround
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fpgetround.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2019 Karl Williamson
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_towupper: Inlibc
?MAKE: -pick add $@ %<
?S:d_towupper:
?S: This variable conditionally defines the HAS_TOWUPPER symbol, which
?S: indicates to the C program that the towupper() routine is available.
?S:.
?C:HAS_TOWUPPER:
?C: This symbol, if defined, indicates that the towupper () routine is
?C: available to do case conversion.
?C:.
?H:#$d_towupper HAS_TOWUPPER  /**/
?H:.
?LINT:set d_towupper
: see if towupper exists
set towupper d_towupper
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_towupper.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_sqrtl: Inlibc
?MAKE: -pick add $@ %<
?S:d_sqrtl:
?S: This variable conditionally defines the HAS_SQRTL symbol, which
?S: indicates to the C program that the sqrtl() routine is available.
?S:.
?C:HAS_SQRTL:
?C: This symbol, if defined, indicates that the sqrtl routine is
?C: available to do long double square roots.
?C:.
?H:#$d_sqrtl HAS_SQRTL  /**/
?H:.
?LINT:set d_sqrtl
: see if sqrtl exists
set sqrtl d_sqrtl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sqrtl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Null.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Null.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:10  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit ends up producing shell code to set all variables to ".  This
?X: probably isn't necessary, but I'm paranoid.  About certain things.
?X:
?MAKE:Null: Head
?MAKE: -pick add.Null $@ %<
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/dist/U/Null.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_mntent.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_mntent: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_mntent:
?S: This variable conditionally defines the I_MNTENT symbol, and indicates
?S: whether a C program should include <mntent.h>.
?S:.
?C:I_MNTENT:
?C: This symbol, if defined, indicates that <mntent.h> exists and
?C: should be included.
?C:.
?H:#$i_mntent I_MNTENT  /**/
?H:.
?LINT:set i_mntent
: see if this is a mntent.h system
set mntent.h i_mntent
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_mntent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_poll.U,v $
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_langinfo: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_langinfo:
?S: This variable conditionally defines the I_LANGINFO symbol,
?S: and indicates whether a C program should include <langinfo.h>.
?S:.
?C:I_LANGINFO:
?C: This symbol, if defined, indicates that <langinfo.h> exists and
?C: should be included.
```

```
?C:.
?H:#$i_langinfo I_LANGINFO  /**/
?H:.
?LINT:set i_langinfo
: see if this is a langinfo.h system
set langinfo.h i_langinfo
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_langinfo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2019 Karl Williamson
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_towlower: Inlibc
?MAKE: -pick add $@ %<
?S:d_towlower:
?S: This variable conditionally defines the HAS_TOWLOWER symbol, which
?S: indicates to the C program that the towlower() routine is available.
?S:.
?C:HAS_TOWLOWER:
?C: This symbol, if defined, indicates that the towlower () routine is
?C: available to do case conversion.
?C:.
?H:#$d_towlower HAS_TOWLOWER  /**/
?H:.
?LINT:set d_towlower
: see if towlower exists
set towlower d_towlower
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_towlower.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:full_ar: ar
?MAKE: -pick add $@ %<
?S:full_ar:
?S: This variable contains the full pathname to 'ar', whether or
?S: not the user has specified 'portability'.  This is only used
?S: in the Makefile.SH.
?S:.
: Store the full pathname to the ar program for use in the C program
: Respect a hint or command line value for full_ar.
case "$full_ar" in
") full_ar=$ar ;;
esac
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/Loc_ar.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_atoll: Inlibc
?MAKE: -pick add $@ %<
?S:d_atoll:
?S: This variable conditionally defines the HAS_ATOLL symbol, which
?S: indicates to the C program that the atoll() routine is available.
?S:.
?C:HAS_ATOLL:
?C: This symbol, if defined, indicates that the atoll routine is
?C: available to convert strings into long longs.
?C:.
?H:#$d_atoll HAS_ATOLL  /**/
?H:.
?LINT:set d_atoll
: see if atoll exists
set atoll d_atoll
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/U/perl/atoll.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: scandir.C,v 3.0.1.1 1994/01/24 13:58:45 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* $Log: scandir.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:45  ram
* patch16: created
*
*/
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/scandir.C
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_remquo: Inlibc
?MAKE: -pick add $@ %<
?S:d_remquo:
?S: This variable conditionally defines the HAS_REMQUO symbol, which
?S: indicates to the C program that the remquo() routine is available.
?S:.
?C:HAS_REMQUO:
?C: This symbol, if defined, indicates that the remquo routine is
?C: available to return the remainder and part of quotient.
?C:.
?H:#$d_remquo HAS_REMQUO  /**/
?H:.
?LINT:set d_remquo
: see if remquo exists
set remquo d_remquo
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_remquo.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getfsstat : Inlibc
?MAKE: -pick add $@ %<
?S:d_getfsstat:
?S: This variable conditionally defines the HAS_GETFSSTAT symbol, which
?S: indicates to the C program that the getfsstat() routine is available.
?S:.
?C:HAS_GETFSSTAT:
?C: This symbol, if defined, indicates that the getfsstat routine is
?C: available to stat filesystems in bulk.
?C:.
?H:#$d_getfsstat HAS_GETFSSTAT  /**/
?H:.
?LINT:set d_getfsstat
: see if getfsstat exists
set getfsstat d_getfsstat
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getfsstat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2014 Jarkko Hietaniemi & H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_copysign: Inlibc
?MAKE: -pick add $@ %<
?S:d_copysign:
?S: This variable conditionally defines the HAS_COPYSIGN symbol, which
?S: indicates to the C program that the copysign() routine is available.
?S:.
?C:HAS_COPYSIGN:
?C: This symbol, if defined, indicates that the copysign routine is
?C: available to do the copysign function.
?C:.
```

```
?H:#$d_copysign HAS_COPYSIGN  /**/
?H:.
?LINT:set d_copysign
: see if copysign exists
set copysign d_copysign
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_copysign.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2017-2018, H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_dup3: Inlibc
?MAKE: -pick add $@ %<
?S:d_dup3:
?S: This variable conditionally defines HAS_DUP3 if dup3() is
?S: available to duplicate file descriptors.
?S:.
?C:HAS_DUP3:
?C: This symbol, if defined, indicates that the dup3 routine is
?C: available to duplicate file descriptors.
?C:.
?H:#$d_dup3 HAS_DUP3 /**/
?H:.
?LINT:set d_dup3
: see if dup3 exists
set dup3 d_dup3
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_dup3.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_lgamma: Inlibc
?MAKE: -pick add $@ %<
?S:d_lgamma:
```

```
?S: This variable conditionally defines the HAS_LGAMMA symbol, which
?S: indicates to the C program that the lgamma() routine is available
?S: for the log gamma function.  See also d_tgamma and d_lgamma_r.
?S:.
?C:HAS_LGAMMA:
?C: This symbol, if defined, indicates that the lgamma routine is
?C: available to do the log gamma function.  See also HAS_TGAMMA and
?C: HAS_LGAMMA_R.
?C:.
?H:#$d_lgamma HAS_LGAMMA  /**/
?H:.
?LINT:set d_lgamma
: see if lgamma exists
set lgamma d_lgamma
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lgamma.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_timegm: Inlibc
?MAKE: -pick add $@ %<
?S:d_timegm:
?S: This variable conditionally defines the HAS_TIMEGM symbol, which
?S: indicates to the C program that the timegm () routine is available.
?S:.
?C:HAS_TIMEGM:
?C: This symbol, if defined, indicates that the timegm routine is
?C: available to do the opposite of gmtime ()
?C:.
?H:#$d_timegm HAS_TIMEGM  /**/
?H:.
?LINT:set d_timegm
: see if timegm exists
set timegm d_timegm
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_timegm.U

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Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/errnolist.mk
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/makegloss
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/bindex
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/files/fixcpp
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```
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?RCS:
?MAKE:d_isnanl: Inlibc
?MAKE: -pick add $@ %<
?S:d_isnanl:
?S: This variable conditionally defines the HAS_ISNANL symbol, which
?S: indicates to the C program that the isnanl() routine is available.
?S:.
?C:HAS_ISNANL:
?C: This symbol, if defined, indicates that the isnanl routine is
?C: available to check whether a long double is a NaN.
?C:.
?H:#$d_isnanl HAS_ISNANL  /**/
?H:.
?LINT:set d_isnanl
: see if isnanl exists
set isnanl d_isnanl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_isnanl.U
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```
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?RCS: as specified in the README file that comes with the distribution.
?RCS:
?MAKE:i_fenv: Inhdr
```

```
?MAKE: -pick add $@ %<
?S:i_fenv:
?S: This variable conditionally defines the I_FENV symbol, which
?S: indicates to the C program that <fenv.h> exists and should
?S: be included.
?S:.
?C:I_FENV:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <fenv.h> to get the floating point environment definitions.
?C:.
?H:#$i_fenv I_FENV  /**/
?H:.
?LINT:set i_fenv
: see if this is a fenv.h system
set fenv.h i_fenv
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_fenv.U
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```
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?RCS:
?MAKE:d_fchdir: Inlibc
?MAKE: -pick add $@ %<
?S:d_fchdir:
?S: This variable conditionally defines the HAS_FCHDIR symbol, which
?S: indicates to the C program that the fchdir() routine is available.
?S:.
?C:HAS_FCHDIR:
?C: This symbol, if defined, indicates that the fchdir routine is
?C: available to change directory using a file descriptor.
?C:.
?H:#$d_fchdir HAS_FCHDIR  /**/
?H:.
?LINT:set d_fchdir
: see if fchdir exists
set fchdir d_fchdir
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/U/perl/d_fchdir.U
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```
?RCS: $Id: i_crypt.U,v $
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_crypt: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_crypt:
?S: This variable conditionally defines the I_CRYPT symbol, and indicates
?S: whether a C program should include <crypt.h>.
?S:.
?C:I_CRYPT:
?C: This symbol, if defined, indicates that <crypt.h> exists and
?C: should be included.
?C:.
?H:#$i_crypt I_CRYPT  /**/
?H:.
?LINT:set i_crypt
: see if this is a crypt.h system
set crypt.h i_crypt
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_crypt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_syslog.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_syslog: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_syslog:
?S: This variable conditionally defines the I_SYSLOG symbol,
?S: and indicates whether a C program should include <syslog.h>.
?S:.
?C:I_SYSLOG:
?C: This symbol, if defined, indicates that <syslog.h> exists and
?C: should be included.
```

```
?C:.
?H:#$i_syslog I_SYSLOG  /**/
?H:.
?LINT:set i_syslog
: see if this is a syslog.h system
set syslog.h i_syslog
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_syslog.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_fma: Inlibc
?MAKE: -pick add $@ %<
?S:d_fma:
?S: This variable conditionally defines the HAS_FMA symbol, which
?S: indicates to the C program that the fma() routine is available.
?S:.
?C:HAS_FMA:
?C: This symbol, if defined, indicates that the fma routine is
?C: available to do the multiply-add function.
?C:.
?H:#$d_fma HAS_FMA  /**/
?H:.
?LINT:set d_fma
: see if fma exists
set fma d_fma
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fma.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_acosh: Inlibc
?MAKE: -pick add $@ %<
?S:d_acosh:
?S: This variable conditionally defines the HAS_ACOSH symbol, which
?S: indicates to the C program that the acosh() routine is available.
?S:.
?C:HAS_ACOSH:
```

```
?C: This symbol, if defined, indicates that the acosh routine is
?C: available to do the inverse hyperbolic cosine function.
?C:.
?H:#$d_acosh HAS_ACOSH  /**/
?H:.
?LINT:set d_acosh
: see if acosh exists
set acosh d_acosh
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855197683_1701152290.0194173/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_acosh.U

1.1917 perl-base 5.34.0-3ubuntu1.3

1.1917.1 Available under license :

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```
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_scalbnl: Inlibc
?MAKE: -pick add $@ %<
?S:d_scalbnl:
?S: This variable conditionally defines the HAS_SCALBNL symbol, which
?S: indicates to the C program that the scalbnl() routine is available.
?S: If ilogbl is also present we can emulate frexpl.
?S:.
?C:HAS_SCALBNL:
?C: This symbol, if defined, indicates that the scalbnl routine is
?C: available.  If ilogbl is also present we can emulate frexpl.
?C:.
?H:#$d_scalbnl HAS_SCALBNL  /**/
?H:.
?LINT:set d_scalbnl
: see if scalbnl exists
set scalbnl d_scalbnl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_scalbnl.U

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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:full_ar: ar
?MAKE: -pick add $@ %<
?S:full_ar:
?S: This variable contains the full pathname to 'ar', whether or
?S: not the user has specified 'portability'.  This is only used
?S: in the Makefile.SH.
?S:.
: Store the full pathname to the ar program for use in the C program
: Respect a hint or command line value for full_ar.
case "$full_ar" in
") full_ar=$ar ;;
esac
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/Loc_ar.U
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```
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?RCS:
?MAKE:d_fegetround: Inlibc
?MAKE: -pick add $@ %<
?S:d_fegetround:
?S: This variable conditionally defines HAS_FEGETROUND if fegetround() is
?S: available to get the floating point rounding mode.
?S:.
?C:HAS_FEGETROUND:
?C: This symbol, if defined, indicates that the fegetround routine is
?C: available to return the macro corresponding to the current rounding
?C: mode.
?C:.
?H:#$d_fegetround HAS_FEGETROUND /**/
?H:.
?LINT:set d_fegetround
: see if fegetround exists
```

```
set fegetround d_fegetround
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fegetround.U
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```
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_hasmntopt: Inlibc
?MAKE: -pick add $@ %<
?S:d_hasmntopt:
?S: This variable conditionally defines the HAS_HASMNTOPT symbol, which
?S: indicates to the C program that the hasmntopt() routine is available
?S: to query the mount options of file systems.
?S:.
?C:HAS_HASMNTOPT:
?C: This symbol, if defined, indicates that the hasmntopt routine is
?C: available to query the mount options of file systems.
?C:.
?H:#$d_hasmntopt HAS_HASMNTOPT  /**/
?H:.
?LINT:set d_hasmntopt
: see if hasmntopt exists
set hasmntopt d_hasmntopt
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_hasmntopt.U
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```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_finite: Inlibc
?MAKE: -pick add $@ %<
?S:d_finite:
```

```
?S: This variable conditionally defines the HAS_FINITE symbol, which
?S: indicates to the C program that the finite() routine is available.
?S:.
?C:HAS_FINITE:
?C: This symbol, if defined, indicates that the finite routine is
?C: available to check whether a double is finite (non-infinity non-NaN).
?C:.
?H:#$d_finite HAS_FINITE  /**/
?H:.
?LINT:set d_finite
: see if finite exists
set finite d_finite
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_finite.U
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```
?RCS: $Id: i_shadow.U,v $
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_shadow: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_shadow:
?S: This variable conditionally defines the I_SHADOW symbol, and indicates
?S: whether a C program should include <shadow.h>.
?S:.
?C:I_SHADOW:
?C: This symbol, if defined, indicates that <shadow.h> exists and
?C: should be included.
?C:.
?H:#$i_shadow I_SHADOW  /**/
?H:.
?LINT:set i_shadow
: see if this is a shadow.h system
set shadow.h i_shadow
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_shadow.U
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```
?RCS: $Id: baserev.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: baserev.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:baserev: Null
?MAKE: -pick wipe $@ %<
?S:baserev:
?S: The base revision level of this package, from the .package file.
?S:.
: set the base revision
baserev=<BASEREV>
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/baserev.U
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```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_clearenv: Inlibc
?MAKE: -pick add $@ %<
?S:d_clearenv:
?S: This variable conditionally defines the HAS_CLEARENV symbol, which
?S: indicates to the C program that the clearenv () routine is available.
?S:.
?C:HAS_CLEARENV:
?C: This symbol, if defined, indicates that the clearenv () routine is
?C: available for use.
?C:.
?H:#$d_clearenv HAS_CLEARENV  /**/
?H:.
?LINT:set d_clearenv
: see if clearenv exists
```

```
set clearenv d_clearenv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_clearenv.U
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```
/*
* $Id: getopt.C,v 3.0.1.1 1994/01/24 13:58:40 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* Original Author: unknown, got this off net.sources
*
* $Log: getopt.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:40  ram
* patch16: created
*
*/
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/getopt.C
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```
?RCS: $Id: i_sysmount.U,v $
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysmount: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysmount:
?S: This variable conditionally defines the I_SYSMOUNT symbol,
?S: and indicates whether a C program should include <sys/mount.h>.
?S:.
?C:I_SYS_MOUNT:
?C: This symbol, if defined, indicates that <sys/mount.h> exists and
?C: should be included.
```

```
?C:.
?H:#$i_sysmount I_SYS_MOUNT  /**/
?H:.
?LINT:set i_sysmount
: see if this is a sys/mount.h system
set sys/mount.h i_sysmount
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysmount.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_bfd.U,v $
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_bfd: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_bfd:
?S: This variable conditionally defines the I_BFD symbol, and
?S: indicates whether a C program can include <bfd.h>.
?S:.
?C:I_BFD:
?C: This symbol, if defined, indicates that <bfd.h> exists and
?C: can be included.
?C:.
?H:#$i_bfd I_BFD  /**/
?H:.
?LINT:set i_bfd
: see if this is a bfd.h system
set bfd.h i_bfd
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_bfd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
?MAKE:d_accessx: Inlibc
?MAKE: -pick add $@ %<
?S:d_accessx:
?S: This variable conditionally defines the HAS_ACCESSX symbol, which
?S: indicates to the C program that the accessx() routine is available.
?S:.
?C:HAS_ACCESSX :
?C: This symbol, if defined, indicates that the accessx routine is
?C: available to do extended access checks.
?C:.
?H:#$d_accessx HAS_ACCESSX  /**/
?H:.
?LINT:set d_accessx
: see if accessx exists
set accessx d_accessx
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/acl/d_accessx.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_syslog.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_syslog: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_syslog:
?S: This variable conditionally defines the I_SYSLOG symbol,
?S: and indicates whether a C program should include <syslog.h>.
?S:.
?C:I_SYSLOG:
?C: This symbol, if defined, indicates that <syslog.h> exists and
?C: should be included.
?C:.
?H:#$i_syslog I_SYSLOG  /**/
?H:.
?LINT:set i_syslog
: see if this is a syslog.h system
set syslog.h i_syslog
eval $inhdr
```

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_syslog.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strftime: Inlibc
?MAKE: -pick add $@ %<
?S:d_strftime:
?S: This variable conditionally defines the HAS_STRFTIME symbol, which
?S: indicates to the C program that the strftime() routine is available.
?S:.
?C:HAS_STRFTIME:
?C: This symbol, if defined, indicates that the strftime routine is
?C: available to do time formatting.
?C:.
?H:#$d_strftime HAS_STRFTIME  /**/
?H:.
?LINT:set d_strftime
: see if strftime exists
set strftime d_strftime
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strftime.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_libutil.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_libutil: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_libutil:
?S: This variable conditionally defines the I_LIBUTIL symbol, and indicates
?S: whether a C program should include <libutil.h>.
?S:.
?C:I_LIBUTIL:
?C: This symbol, if defined, indicates that <libutil.h> exists and
```

```
?C: should be included.
?C:.
?H:#$i_libutil I_LIBUTIL  /**/
?H:.
?LINT:set i_libutil
: see if this is a libutil.h system
set libutil.h i_libutil
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_libutil.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?X:
?X: Useless unit dropped.  Use randfunc instead.
?X:
?LINT:empty
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/randbits.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fdim: Inlibc
?MAKE: -pick add $@ %<
?S:d_fdim:
?S: This variable conditionally defines the HAS_FDIM symbol, which
?S: indicates to the C program that the fdim() routine is available.
?S:.
?C:HAS_FDIM:
?C: This symbol, if defined, indicates that the fdim routine is
?C: available to do the positive difference function.
?C:.
?H:#$d_fdim HAS_FDIM  /**/
?H:.
```

```
?LINT:set d_fdim
: see if fdim exists
set fdim d_fdim
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fdim.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isnanl: Inlibc
?MAKE: -pick add $@ %<
?S:d_isnanl:
?S: This variable conditionally defines the HAS_ISNANL symbol, which
?S: indicates to the C program that the isnanl() routine is available.
?S:.
?C:HAS_ISNANL:
?C: This symbol, if defined, indicates that the isnanl routine is
?C: available to check whether a long double is a NaN.
?C:.
?H:#$d_isnanl HAS_ISNANL  /**/
?H:.
?LINT:set d_isnanl
: see if isnanl exists
set isnanl d_isnanl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_isnanl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2009 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getaddrinfo: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_getaddrinfo:
?S: This variable conditionally defines the HAS_GETADDRINFO symbol,
?S: which indicates to the C program that the getaddrinfo() function
?S: is available.
?S:.
?C:HAS_GETADDRINFO:
?C: This symbol, if defined, indicates that the getaddrinfo() function
?C: is available for use.
?C:.
?H:#$d_getaddrinfo HAS_GETADDRINFO  /**/
?H:.
?LINT:set d_getaddrinfo
: see if getaddrinfo exists
set getaddrinfo d_getaddrinfo
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getaddrinfo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_netdb.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_netdb: Inhdr
?MAKE: -pick add $@ %<
?S:i_netdb:
?S: This variable conditionally defines the I_NETDB symbol, and indicates
?S: whether a C program should include <netdb.h>.
?S:.
?C:I_NETDB:
?C: This symbol, if defined, indicates that <netdb.h> exists and
?C: should be included.
?C:.
?H:#$i_netdb I_NETDB  /**/
?H:.
?LINT:set i_netdb
: see if this is a netdb.h system
set netdb.h i_netdb
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_netdb.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_setproctitle: Inlibc
?MAKE: -pick add $@ %<
?S:d_setproctitle:
?S: This variable conditionally defines the HAS_SETPROCTITLE symbol,
?S: which indicates to the C program that the setproctitle() routine
?S: is available.
?S:.
?C:HAS_SETPROCTITLE:
?C: This symbol, if defined, indicates that the setproctitle routine is
?C: available to set process title.
?C:.
?H:#$d_setproctitle HAS_SETPROCTITLE  /**/
?H:.
?LINT:set d_setproctitle
: see if setproctitle exists
set setproctitle d_setproctitle
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_setproctitle.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_round: Inlibc
?MAKE: -pick add $@ %<
?S:d_round:
?S: This variable conditionally defines the HAS_ROUND symbol, which
?S: indicates to the C program that the round() routine is available.
?S:.
?C:HAS_ROUND:
?C: This symbol, if defined, indicates that the round routine is
?C: available to round to nearest integer, away from zero.
?C:.
?H:#$d_round HAS_ROUND  /**/
?H:.
?LINT:set d_round
```

```
: see if round exists
set round d_round
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_round.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_remainder: Inlibc
?MAKE: -pick add $@ %<
?S:d_remainder:
?S: This variable conditionally defines the HAS_REMAINDER symbol, which
?S: indicates to the C program that the remainder() routine is available.
?S:.
?C:HAS_REMAINDER:
?C: This symbol, if defined, indicates that the remainder routine is
?C: available to return the floating-point remainder.
?C:.
?H:#$d_remainder HAS_REMAINDER  /**/
?H:.
?LINT:set d_remainder
: see if remainder exists
set remainder d_remainder
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_remainder.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fma: Inlibc
?MAKE: -pick add $@ %<
?S:d_fma:
?S: This variable conditionally defines the HAS_FMA symbol, which
?S: indicates to the C program that the fma() routine is available.
?S:.
?C:HAS_FMA:
?C: This symbol, if defined, indicates that the fma routine is
?C: available to do the multiply-add function.
?C:.
?H:#$d_fma HAS_FMA  /**/
```

```
?H:.
?LINT:set d_fma
: see if fma exists
set fma d_fma
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fma.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2009 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_inetpton: Inlibc
?MAKE: -pick add $@ %<
?S:d_inetpton:
?S: This variable conditionally defines the HAS_INETPTON symbol,
?S: which indicates to the C program that the inet_pton() function
?S: is available.
?S:.
?C:HAS_INETPTON:
?C: This symbol, if defined, indicates that the inet_pton() function
?C: is available to parse IPv4 and IPv6 strings.
?C:.
?H:#$d_inetpton HAS_INETPTON  /**/
?H:.
?LINT:set d_inetpton
: see if inet_pton exists
set inet_pton d_inetpton
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_inetpton.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
```

```
?MAKE:d_eaccess: Inlibc
?MAKE: -pick add $@ %<
?S:d_eaccess:
?S: This variable conditionally defines the HAS_EACCESS symbol, which
?S: indicates to the C program that the eaccess() routine is available.
?S:.
?C:HAS_EACCESS :
?C: This symbol, if defined, indicates that the eaccess routine is
?C: available to do extended access checks.
?C:.
?H:#$d_eaccess HAS_EACCESS  /**/
?H:.
?LINT:set d_eaccess
: see if eaccess exists
set eaccess d_eaccess
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/acl/d_eaccess.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_llroundl: Inlibc
?MAKE: -pick add $@ %<
?S:d_llroundl:
?S: This variable conditionally defines the HAS_LLROUNDL symbol, which
?S: indicates to the C program that the llroundl() routine is available
?S: to return the long long value nearest to x away from zero.
?S:.
?C:HAS_LLROUNDL:
?C: This symbol, if defined, indicates that the llroundl routine is
?C: available to return the nearest long long value away from zero of
?C: the long double argument value.
?C:.
?H:#$d_llroundl HAS_LLROUNDL  /**/
?H:.
?LINT:set d_llroundl
: see if llroundl exists
set llroundl d_llroundl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_llroundl.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysvfs.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysvfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysvfs:
?S: This variable conditionally defines the I_SYSVFS symbol,
?S: and indicates whether a C program should include <sys/vfs.h>.
?S:.
?C:I_SYS_VFS:
?C: This symbol, if defined, indicates that <sys/vfs.h> exists and
?C: should be included.
?C:.
?H:#$i_sysvfs I_SYS_VFS  /**/
?H:.
?LINT:set i_sysvfs
: see if this is a sys/vfs.h system
set sys/vfs.h i_sysvfs
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysvfs.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: setsid.C,v 3.0.1.1 1994/01/24 13:58:47 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* $Log: setsid.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:47  ram
* patch16: created
*
*/
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/setsid.C
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Nothing.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Nothing.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this file is to supply an empty target for the private
?X: Makefile built by metaconfig to order the units.
?X:
?MAKE:Nothing: Head
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Nothing.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fdclose: Inlibc
?MAKE: -pick add $@ %<
?S:d_fdclose:
?S: This variable conditionally defines the HAS_FDCLOSE symbol, which
?S: indicates to the C program that the fdclose() routine is available.
?S:.
?C:HAS_FDCLOSE:
?C: This symbol, if defined, indicates that the fdclose routine is
?C: available to free a FILE structure without closing the underlying
?C: file descriptor.  This function appeared in FreeBSD 10.2.
?C:.
?H:#$d_fdclose HAS_FDCLOSE  /**/
?H:.
?LINT:set d_fdclose
: see if fdclose exists
```

```
set fdclose d_fdclose
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fdclose.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_sockatmark: Inlibc
?MAKE: -pick add $@ %<
?S:d_sockatmark:
?S: This variable conditionally defines the HAS_SOCKATMARK symbol, which
?S: indicates to the C program that the sockatmark() routine is available.
?S:.
?C:HAS_SOCKATMARK:
?C: This symbol, if defined, indicates that the sockatmark routine is
?C: available to test whether a socket is at the out-of-band mark.
?C:.
?H:#$d_sockatmark HAS_SOCKATMARK  /**/
?H:.
?LINT:set d_sockatmark
: see if sockatmark exists
set sockatmark d_sockatmark
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sockatmark.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the WRITEME file.
?RCS:
?MAKE:d_writev: Inlibc
?MAKE: -pick add $@ %<
?S:d_writev:
?S: This variable conditionally defines the HAS_WRITEV symbol, which
```

```
?S: indicates to the C program that the writev() routine is available.
?S:.
?C:HAS_WRITEV:
?C: This symbol, if defined, indicates that the writev routine is
?C: available to do scatter writes.
?C:.
?H:#$d_writev HAS_WRITEV  /**/
?H:.
?LINT:set d_writev
: see if writev exists
set writev d_writev
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_writev.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fseeko: Inlibc longsize
?MAKE: -pick add $@ %<
?S:d_fseeko:
?S: This variable conditionally defines the HAS_FSEEKO symbol, which
?S: indicates to the C program that the fseeko() routine is available.
?S:.
?C:HAS_FSEEKO:
?C: This symbol, if defined, indicates that the fseeko routine is
?C: available to fseek beyond 32 bits (useful for ILP32 hosts).
?C:.
?H:#$d_fseeko HAS_FSEEKO  /**/
?H:.
?LINT:set d_fseeko
: see if fseeko exists
set fseeko d_fseeko
eval $inlibc
case "$longsize" in
8) echo "(Your long is 64 bits, so you could use fseek.)" ;;
esac
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fseeko.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_copysignl: Inlibc
?MAKE: -pick add $@ %<
?S:d_copysignl:
?S: This variable conditionally defines the HAS_COPYSIGNL symbol, which
?S: indicates to the C program that the copysignl() routine is available.
?S: If aintl is also present we can emulate modfl.
?S:.
?C:HAS_COPYSIGNL:
?C: This symbol, if defined, indicates that the copysignl routine is
?C: available.  If aintl is also present we can emulate modfl.
?C:.
?H:#$d_copysignl HAS_COPYSIGNL  /**/
?H:.
?LINT:set d_copysignl
: see if copysignl exists
set copysignl d_copysignl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_copysignl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS:
?MAKE:i_stdint: Inhdr
?MAKE: -pick add $@ %<
?S:i_stdint:
?S: This variable conditionally defines the I_STDINT symbol, which
?S: indicates to the C program that <stdint.h> exists and should
?S: be included.
?S:.
?C:I_STDINT:
?C: This symbol, if defined, indicates that <stdint.h> exists and
?C: should be included.
?C:.
?H:#$i_stdint I_STDINT  /**/
?H:.
```

```
?LINT:set i_stdint
: see if stdint is available
set stdint.h i_stdint
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_stdint.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Null.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Null.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:10  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit ends up producing shell code to set all variables to ".  This
?X: probably isn't necessary, but I'm paranoid.  About certain things.
?X:
?MAKE:Null: Head
?MAKE: -pick add.Null $@ %<
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Null.U
No license file was found, but licenses were detected in source scan.

```
#  You may redistribute only under the terms of the Artistic Licence,
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/files/fixcpp
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/errnolist.mk
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/bindex
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/makegloss

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_sendmsg: Inlibc
?MAKE: -pick add $@ %<
?S:d_sendmsg:
?S: This variable conditionally defines the HAS_SENDMSG symbol, which
?S: indicates to the C program that the sendmsg() routine is available.
?S:.
?C:HAS_SENDMSG:
?C: This symbol, if defined, indicates that the sendmsg routine is
?C: available to send structured socket messages.
?C:.
?H:#$d_sendmsg HAS_SENDMSG  /**/
?H:.
?LINT:set d_sendmsg
: see if sendmsg exists
set sendmsg d_sendmsg
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sendmsg.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getfsstat : Inlibc
?MAKE: -pick add $@ %<
?S:d_getfsstat:
?S: This variable conditionally defines the HAS_GETFSSTAT symbol, which
?S: indicates to the C program that the getfsstat() routine is available.
?S:.
?C:HAS_GETFSSTAT:
?C: This symbol, if defined, indicates that the getfsstat routine is
?C: available to stat filesystems in bulk.
?C:.
```

```
?H:#$d_getfsstat HAS_GETFSSTAT  /**/
?H:.
?LINT:set d_getfsstat
: see if getfsstat exists
set getfsstat d_getfsstat
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getfsstat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_acosh: Inlibc
?MAKE: -pick add $@ %<
?S:d_acosh:
?S: This variable conditionally defines the HAS_ACOSH symbol, which
?S: indicates to the C program that the acosh() routine is available.
?S:.
?C:HAS_ACOSH:
?C: This symbol, if defined, indicates that the acosh routine is
?C: available to do the inverse hyperbolic cosine function.
?C:.
?H:#$d_acosh HAS_ACOSH  /**/
?H:.
?LINT:set d_acosh
: see if acosh exists
set acosh d_acosh
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_acosh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_ualarm: Inlibc
?MAKE: -pick add $@ %<
?S:d_ualarm:
?S: This variable conditionally defines the HAS_UALARM symbol, which
```

```
?S: indicates to the C program that the ualarm() routine is available.
?S:.
?C:HAS_UALARM:
?C: This symbol, if defined, indicates that the ualarm routine is
?C: available to do alarms with microsecond granularity.
?C:.
?H:#$d_ualarm HAS_UALARM  /**/
?H:.
?LINT:set d_ualarm
: see if ualarm exists
set ualarm d_ualarm
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_ualarm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_lgamma: Inlibc
?MAKE: -pick add $@ %<
?S:d_lgamma:
?S: This variable conditionally defines the HAS_LGAMMA symbol, which
?S: indicates to the C program that the lgamma() routine is available
?S: for the log gamma function.  See also d_tgamma and d_lgamma_r.
?S:.
?C:HAS_LGAMMA:
?C: This symbol, if defined, indicates that the lgamma routine is
?C: available to do the log gamma function.  See also HAS_TGAMMA and
?C: HAS_LGAMMA_R.
?C:.
?H:#$d_lgamma HAS_LGAMMA  /**/
?H:.
?LINT:set d_lgamma
: see if lgamma exists
set lgamma d_lgamma
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lgamma.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
```

```
?MAKE:d_atanh: Inlibc
?MAKE: -pick add $@ %<
?S:d_atanh:
?S: This variable conditionally defines the HAS_ATANH symbol, which
?S: indicates to the C program that the atanh() routine is available.
?S:.
?C:HAS_ATANH:
?C: This symbol, if defined, indicates that the atanh routine is
?C: available to do the inverse hyperbolic tangent function.
?C:.
?H:#$d_atanh HAS_ATANH  /**/
?H:.
?LINT:set d_atanh
: see if atanh exists
set atanh d_atanh
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_atanh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2017 Dagfinn Ilmari Mannsåker
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strnlen: Inlibc
?MAKE: -pick add $@ %<
?S:d_strnlen:
?S: This variable conditionally defines the HAS_STRNLEN symbol, which
?S: indicates to the C program that the strnlen () routine is available.
?S:.
?C:HAS_STRNLEN:
?C: This symbol, if defined, indicates that the strnlen () routine is
?C: available to check the length of a string up to a maximum.
?C:.
?H:#$d_strnlen HAS_STRNLEN  /**/
?H:.
?LINT:set d_strnlen
: see if strnlen exists
set strnlen d_strnlen
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/U/perl/d_strnlen.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fpgetround: Inlibc
?MAKE: -pick add $@ %<
?S:d_fpgetround:
?S: This variable conditionally defines HAS_FPGETROUND if fpgetround()
?S: is available to get the floating point rounding mode.
?S:.
?C:HAS_FPGETROUND:
?C: This symbol, if defined, indicates that the fpgetround routine is
?C: available to get the floating point rounding mode.
?C:.
?H:#$d_fpgetround HAS_FPGETROUND  /**/
?H:.
?LINT:set d_fpgetround
: see if fpgetround exists
set fpgetround d_fpgetround
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fpgetround.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2005 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_unsetenv: Inlibc
?MAKE: -pick add $@ %<
?S:d_unsetenv:
?S: This variable conditionally defines the HAS_UNSETENV symbol, which
?S: indicates to the C program that the unsetenv () routine is available.
?S:.
?C:HAS_UNSETENV:
?C: This symbol, if defined, indicates that the unsetenv () routine is
?C: available for use.
?C:.
?H:#$d_unsetenv HAS_UNSETENV  /**/
?H:.
?LINT:set d_unsetenv
```

```
: see if unsetenv exists
set unsetenv d_unsetenv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_unsetenv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_erf: Inlibc
?MAKE: -pick add $@ %<
?S:d_erf:
?S: This variable conditionally defines the HAS_ERF symbol, which
?S: indicates to the C program that the erf() routine is available.
?S:.
?C:HAS_ERF:
?C: This symbol, if defined, indicates that the erf routine is
?C: available to do the error function.
?C:.
?H:#$d_erf HAS_ERF  /**/
?H:.
?LINT:set d_erf
: see if erf exists
set erf d_erf
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_erf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_erfc: Inlibc
?MAKE: -pick add $@ %<
?S:d_erfc:
?S: This variable conditionally defines the HAS_ERFC symbol, which
?S: indicates to the C program that the erfc() routine is available.
?S:.
?C:HAS_ERFC:
?C: This symbol, if defined, indicates that the erfc routine is
?C: available to do the complementary error function.
?C:.
?H:#$d_erfc HAS_ERFC  /**/
```

```
?H:.
?LINT:set d_erfc
: see if erfc exists
set erfc d_erfc
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_erfc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_nearbyint: Inlibc
?MAKE: -pick add $@ %<
?S:d_nearbyint:
?S: This variable conditionally defines HAS_NEARBYINT if nearbyint()
?S: is available to return the integral value closest to (according to
?S: the current rounding mode) to x.
?S:.
?C:HAS_NEARBYINT:
?C: This symbol, if defined, indicates that the nearbyint routine is
?C: available to return the integral value closest to (according to
?C: the current rounding mode) to x.
?C:.
?H:#$d_nearbyint HAS_NEARBYINT  /**/
?H:.
?LINT:set d_nearbyint
: see if nearbyint exists
set nearbyint d_nearbyint
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_nearbyint.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2017-2018, H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_dup3: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_dup3:
?S: This variable conditionally defines HAS_DUP3 if dup3() is
?S: available to duplicate file descriptors.
?S:.
?C:HAS_DUP3:
?C: This symbol, if defined, indicates that the dup3 routine is
?C: available to duplicate file descriptors.
?C:.
?H:#$d_dup3 HAS_DUP3 /**/
?H:.
?LINT:set d_dup3
: see if dup3 exists
set dup3 d_dup3
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_dup3.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2008 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_timegm: Inlibc
?MAKE: -pick add $@ %<
?S:d_timegm:
?S: This variable conditionally defines the HAS_TIMEGM symbol, which
?S: indicates to the C program that the timegm () routine is available.
?S:.
?C:HAS_TIMEGM:
?C: This symbol, if defined, indicates that the timegm routine is
?C: available to do the opposite of gmtime ()
?C:.
?H:#$d_timegm HAS_TIMEGM  /**/
?H:.
?LINT:set d_timegm
: see if timegm exists
set timegm d_timegm
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_timegm.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2019 Karl Williamson
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_towlower: Inlibc
?MAKE: -pick add $@ %<
?S:d_towlower:
?S: This variable conditionally defines the HAS_TOWLOWER symbol, which
?S: indicates to the C program that the towlower() routine is available.
?S:.
?C:HAS_TOWLOWER:
?C: This symbol, if defined, indicates that the towlower () routine is
?C: available to do case conversion.
?C:.
?H:#$d_towlower HAS_TOWLOWER  /**/
?H:.
?LINT:set d_towlower
: see if towlower exists
set towlower d_towlower
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_towlower.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rename.C,v 3.0.1.1 1994/01/24 13:58:42 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* $Log: rename.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:42  ram
* patch16: created
*
*/
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/rename.C
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_ustat.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_ustat: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_ustat:
?S: This variable conditionally defines the I_USTAT symbol, and indicates
?S: whether a C program should include <ustat.h>.
?S:.
?C:I_USTAT:
?C: This symbol, if defined, indicates that <ustat.h> exists and
?C: should be included.
?C:.
?H:#$i_ustat I_USTAT  /**/
?H:.
?LINT:set i_ustat
: see if this is a ustat.h system
set ustat.h i_ustat
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_ustat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysutsname.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysutsname: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysutsname:
?S: This variable conditionally defines the I_SYSUTSNAME symbol,
?S: and indicates whether a C program should include <sys/utsname.h>.
?S:.
?C:I_SYSUTSNAME:
```

```
?C: This symbol, if defined, indicates that <sys/utsname.h> exists and
?C: should be included.
?C:.
?H:#$i_sysutsname I_SYSUTSNAME  /**/
?H:.
?LINT:set i_sysutsname
: see if this is a sys/utsname.h system
set sys/utsname.h i_sysutsname
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysutsname.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isinfl: Inlibc
?MAKE: -pick add $@ %<
?S:d_isinfl:
?S: This variable conditionally defines the HAS_ISINFL symbol, which
?S: indicates to the C program that the isinfl() routine is available.
?S:.
?C:HAS_ISINFL:
?C: This symbol, if defined, indicates that the isinfl routine is
?C: available to check whether a long double is an infinity.
?C:.
?H:#$d_isinfl HAS_ISINFL  /**/
?H:.
?LINT:set d_isinfl
: see if isinfl exists
set isinfl d_isinfl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_isinfl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2014 Jarkko Hietaniemi & H.Merijn Brand
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_copysign: Inlibc
?MAKE: -pick add $@ %<
?S:d_copysign:
?S: This variable conditionally defines the HAS_COPYSIGN symbol, which
?S: indicates to the C program that the copysign() routine is available.
?S:.
?C:HAS_COPYSIGN:
?C: This symbol, if defined, indicates that the copysign routine is
?C: available to do the copysign function.
?C:.
?H:#$d_copysign HAS_COPYSIGN  /**/
?H:.
?LINT:set d_copysign
: see if copysign exists
set copysign d_copysign
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_copysign.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_ieeefp.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_ieeefp: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_ieeefp:
?S: This variable conditionally defines the I_IEEEFP symbol, and indicates
?S: whether a C program should include <ieeefp.h>.
?S:.
?C:I_IEEEFP:
?C: This symbol, if defined, indicates that <ieeefp.h> exists and
?C: should be included.
?C:.
?H:#$i_ieeefp I_IEEEFP  /**/
?H:.
?LINT:set i_ieeefp
: see if this is a ieeefp.h system
case "$i_ieeefp" in
" ) set ieeefp.h i_ieeefp
```

```
    eval $inhdr
    ;;
esac
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_ieeefp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fsync: Inlibc
?MAKE: -pick add $@ %<
?S:d_fsync:
?S: This variable conditionally defines the HAS_FSYNC symbol, which
?S: indicates to the C program that the fsync() routine is available.
?S:.
?C:HAS_FSYNC:
?C: This symbol, if defined, indicates that the fsync routine is
?C: available to write a file's modified data and attributes to
?C: permanent storage.
?C:.
?H:#$d_fsync HAS_FSYNC  /**/
?H:.
?LINT:set d_fsync
: see if fsync exists
set fsync d_fsync
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fsync.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_aintl: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_aintl:
?S: This variable conditionally defines the HAS_AINTL symbol, which
?S: indicates to the C program that the aintl() routine is available.
?S: If copysignl is also present we can emulate modfl.
?S:.
?C:HAS_AINTL:
?C: This symbol, if defined, indicates that the aintl routine is
?C: available.  If copysignl is also present we can emulate modfl.
?C:.
?H:#$d_aintl HAS_AINTL  /**/
?H:.
?LINT:set d_aintl
: see if aintl exists
set aintl d_aintl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_aintl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_ilogb: Inlibc
?MAKE: -pick add $@ %<
?S:d_ilogb:
?S: This variable conditionally defines the HAS_ILOGB symbol, which
?S: indicates to the C program that the ilogb() routine is available
?S: for extracting the exponent of double x as a signed integer.
?S:.
?C:HAS_ILOGB:
?C: This symbol, if defined, indicates that the ilogb routine is
?C: available to get integer exponent of a floating-point value.
?C:.
?H:#$d_ilogb HAS_ILOGB  /**/
?H:.
?LINT:set d_ilogb
: see if ilogb exists
set ilogb d_ilogb
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_ilogb.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysuio.U,v $
```

```
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysuio: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysuio:
?S: This variable conditionally defines the I_SYSUIO symbol, and indicates
?S: whether a C program should include <sys/uio.h>.
?S:.
?C:I_SYSUIO:
?C: This symbol, if defined, indicates that <sys/uio.h> exists and
?C: should be included.
?C:.
?H:#$i_sysuio I_SYSUIO  /**/
?H:.
?LINT:set i_sysuio
: see if this is a sys/uio.h system
set sys/uio.h i_sysuio
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_sysuio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_lrint: Inlibc
?MAKE: -pick add $@ %<
?S:d_lrint:
?S: This variable conditionally defines the HAS_LRINT symbol, which
?S: indicates to the C program that the lrint() routine is available
?S: to return the integral value closest to a double (according
?S: to the current rounding mode).
?S:.
?C:HAS_LRINT:
?C: This symbol, if defined, indicates that the lrint routine is
?C: available to return the integral value closest to a double
?C: (according to the current rounding mode).
?C:.
?H:#$d_lrint HAS_LRINT  /**/
?H:.
?LINT:set d_lrint
: see if lrint exists
```

```
set lrint d_lrint
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lrint.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_socks.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_socks: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_socks:
?S: This variable conditionally defines the I_SOCKS symbol, and indicates
?S: whether a C program should include <socks.h>.
?S:.
?C:I_SOCKS:
?C: This symbol, if defined, indicates that <socks.h> exists and
?C: should be included.
?C:.
?H:#$i_socks I_SOCKS  /**/
?H:.
?LINT:set i_socks
: see if this is a socks.h system
set socks.h i_socks
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_socks.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getmnt: Inlibc
?MAKE: -pick add $@ %<
?S:d_getmnt:
?S: This variable conditionally defines the HAS_GETMNT symbol, which
```

```
?S: indicates to the C program that the getmnt() routine is available
?S: to retrieve one or more mount info blocks by filename.
?S:.
?C:HAS_GETMNT:
?C: This symbol, if defined, indicates that the getmnt routine is
?C: available to get filesystem mount info by filename.
?C:.
?H:#$d_getmnt HAS_GETMNT  /**/
?H:.
?LINT:set d_getmnt
: see if getmnt exists
set getmnt d_getmnt
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getmnt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sunmath.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sunmath: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sunmath:
?S: This variable conditionally defines the I_SUNMATH symbol, and indicates
?S: whether a C program should include <sunmath.h>.
?S:.
?C:I_SUNMATH:
?C: This symbol, if defined, indicates that <sunmath.h> exists and
?C: should be included.
?C:.
?H:#$i_sunmath I_SUNMATH  /**/
?H:.
?LINT:set i_sunmath
: see if this is a sunmath.h system
set sunmath.h i_sunmath
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sunmath.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dup2.C,v 3.0.1.1 1994/01/24 13:58:37 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* Original Author: Larry Wall <lwall@netlabs.com>
*
* $Log: dup2.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:37  ram
* patch16: created
*
*/
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/dup2.C
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_poll.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_poll: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_poll:
?S: This variable conditionally defines the I_POLL symbol, and indicates
?S: whether a C program should include <poll.h>.
?S:.
?C:I_POLL:
?C: This symbol, if defined, indicates that <poll.h> exists and
?C: should be included. (see also HAS_POLL)
?C:.
?H:#$i_poll I_POLL  /**/
?H:.
?LINT:set i_poll
: see if this is a poll.h system
set poll.h i_poll
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_poll.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_atoll: Inlibc
?MAKE: -pick add $@ %<
?S:d_atoll:
?S: This variable conditionally defines the HAS_ATOLL symbol, which
?S: indicates to the C program that the atoll() routine is available.
?S:.
?C:HAS_ATOLL:
?C: This symbol, if defined, indicates that the atoll routine is
?C: available to convert strings into long longs.
?C:.
?H:#$d_atoll HAS_ATOLL  /**/
?H:.
?LINT:set d_atoll
: see if atoll exists
set atoll d_atoll
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/atoll.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_lgamma_r: Inlibc
?MAKE: -pick add $@ %<
?S:d_lgamma_r:
?S: This variable conditionally defines the HAS_LGAMMA_R symbol, which
?S: indicates to the C program that the lgamma_r() routine is available
?S: for the log gamma function, without using the global signgam variable.
?S:.
?C:HAS_LGAMMA_R:
?C: This symbol, if defined, indicates that the lgamma_r routine is
?C: available to do the log gamma function without using the global
?C: signgam variable.
```

```
?C:.
?H:#$d_lgamma_r HAS_LGAMMA_R  /**/
?H:.
?LINT:set d_lgamma_r
: see if lgamma_r exists
set lgamma_r d_lgamma_r
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lgamma_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_setitimer: Inlibc
?MAKE: -pick add $@ %<
?S:d_setitimer:
?S: This variable conditionally defines the HAS_SETITIMER symbol, which
?S: indicates to the C program that the setitimer() routine is available.
?S:.
?C:HAS_SETITIMER:
?C: This symbol, if defined, indicates that the setitimer routine is
?C: available to set interval timers.
?C:.
?H:#$d_setitimer HAS_SETITIMER  /**/
?H:.
?LINT:set d_setitimer
: see if setitimer exists
set setitimer d_setitimer
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_setitimer.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_poll.U,v $
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
?MAKE:i_langinfo: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_langinfo:
?S: This variable conditionally defines the I_LANGINFO symbol,
?S: and indicates whether a C program should include <langinfo.h>.
?S:.
?C:I_LANGINFO:
?C: This symbol, if defined, indicates that <langinfo.h> exists and
?C: should be included.
?C:.
?H:#$i_langinfo I_LANGINFO  /**/
?H:.
?LINT:set i_langinfo
: see if this is a langinfo.h system
set langinfo.h i_langinfo
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_langinfo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_hypot: Inlibc
?MAKE: -pick add $@ %<
?S:d_hypot:
?S: This variable conditionally defines HAS_HYPOT if hypot is available
?S: for numerically stable hypotenuse function.
?S:.
?C:HAS_HYPOT:
?C: This symbol, if defined, indicates that the hypot routine is
?C: available to do the hypotenuse function.
?C:.
?H:#$d_hypot HAS_HYPOT  /**/
?H:.
?LINT:set d_hypot
: see if hypot exists
set hypot d_hypot
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_hypot.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtold_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtold_l:
?S: This variable conditionally defines the HAS_STRTOLD_L symbol, which
?S: indicates to the C program that the strtold_l() routine is available.
?S:.
?C:HAS_STRTOLD_L:
?C: This symbol, if defined, indicates that the strtold_l routine is
?C: available to convert strings to long doubles.
?C:.
?H:#$d_strtold_l HAS_STRTOLD_L  /**/
?H:.
?LINT:set d_strtold_l
: see if strtold_l exists
set strtold_l d_strtold_l
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_strtold_l.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: scandir.C,v 3.0.1.1 1994/01/24 13:58:45 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* $Log: scandir.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:45  ram
* patch16: created
*
*/
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/dist/lib/C/fake/scandir.C
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_readv: Inlibc
?MAKE: -pick add $@ %<
?S:d_readv:
?S: This variable conditionally defines the HAS_READV symbol, which
?S: indicates to the C program that the readv() routine is available.
?S:.
?C:HAS_READV:
?C: This symbol, if defined, indicates that the readv routine is
?C: available to do gather reads.  You will also need <sys/uio.h>
?C: and there I_SYSUIO.
?C:.
?H:#$d_readv HAS_READV  /**/
?H:.
?LINT:set d_readv
: see if readv exists
set readv d_readv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_readv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_asinh: Inlibc
?MAKE: -pick add $@ %<
?S:d_asinh:
?S: This variable conditionally defines the HAS_ASINH symbol, which
?S: indicates to the C program that the asinh() routine is available.
?S:.
?C:HAS_ASINH:
?C: This symbol, if defined, indicates that the asinh routine is
?C: available to do the inverse hyperbolic sine function.
?C:.
?H:#$d_asinh HAS_ASINH  /**/
?H:.
```

```
?LINT:set d_asinh
: see if asinh exists
set asinh d_asinh
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_asinh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtod_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtod_l:
?S: This variable conditionally defines the HAS_STRTOD_L symbol, which
?S: indicates to the C program that the strtod_l() routine is available.
?S:.
?C:HAS_STRTOD_L:
?C: This symbol, if defined, indicates that the strtod_l routine is
?C: available to convert strings to long doubles.
?C:.
?H:#$d_strtod_l HAS_STRTOD_L  /**/
?H:.
?LINT:set d_strtod_l
: see if strtod_l exists
set strtod_l d_strtod_l
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_strtod_l.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_unordered: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_unordered:
?S: This variable conditionally defines the HAS_UNORDERED symbol, which
?S: indicates to the C program that the unordered() routine is available.
?S:.
?C:HAS_UNORDERED:
?C: This symbol, if defined, indicates that the unordered routine is
?C: available to check whether two doubles are unordered
?C: (effectively: whether either of them is NaN)
?C:.
?H:#$d_unordered HAS_UNORDERED  /**/
?H:.
?LINT:set d_unordered
: see if unordered exists
set unordered d_unordered
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_unordered.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_fp.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_fp: Inhdr
?MAKE: -pick add $@ %<
?S:i_fp:
?S: This variable conditionally defines the I_FP symbol, and indicates
?S: whether a C program should include <fp.h>.
?S:.
?C:I_FP:
?C: This symbol, if defined, indicates that <fp.h> exists and
?C: should be included.
?C:.
?H:#$i_fp I_FP  /**/
?H:.
?LINT:set i_fp
: see if this is a fp.h system
set fp.h i_fp
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_fp.U

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```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_atolf: Inlibc
?MAKE: -pick add $@ %<
?S:d_atolf:
?S: This variable conditionally defines the HAS_ATOLF symbol, which
?S: indicates to the C program that the atolf() routine is available.
?S:.
?C:HAS_ATOLF:
?C: This symbol, if defined, indicates that the atolf routine is
?C: available to convert strings into long doubles.
?C:.
?H:#$d_atolf HAS_ATOLF  /**/
?H:.
?LINT:set d_atolf
: see if atolf exists
set atolf d_atolf
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/atolf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fp_classl: Inlibc
?MAKE: -pick add $@ %<
?S:d_fp_classl:
?S: This variable conditionally defines the HAS_FP_CLASSL symbol, which
?S: indicates to the C program that the fp_classl() routine is available.
?S:.
?C:HAS_FP_CLASSL:
?C: This symbol, if defined, indicates that the fp_classl routine is
?C: available to classify long doubles.  Available for example in
?C: Digital UNIX.  See for possible values HAS_FP_CLASS.
```

```
?C:.
?H:#$d_fp_classl HAS_FP_CLASSL  /**/
?H:.
?LINT:set d_fp_classl
: see if fp_classl exists
set fp_classl d_fp_classl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fp_classl.U
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```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_sqrtl: Inlibc
?MAKE: -pick add $@ %<
?S:d_sqrtl:
?S: This variable conditionally defines the HAS_SQRTL symbol, which
?S: indicates to the C program that the sqrtl() routine is available.
?S:.
?C:HAS_SQRTL:
?C: This symbol, if defined, indicates that the sqrtl routine is
?C: available to do long double square roots.
?C:.
?H:#$d_sqrtl HAS_SQRTL  /**/
?H:.
?LINT:set d_sqrtl
: see if sqrtl exists
set sqrtl d_sqrtl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sqrtl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysmode.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
?MAKE:i_sysmode: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysmode:
?S: This variable conditionally defines the I_SYSMODE symbol,
?S: and indicates whether a C program should include <sys/mode.h>.
?S:.
?C:I_SYSMODE:
?C: This symbol, if defined, indicates that <sys/mode.h> exists and
?C: should be included.
?C:.
?H:#$i_sysmode I_SYSMODE  /**/
?H:.
?LINT:set i_sysmode
: see if this is a sys/mode.h system
set sys/mode.h i_sysmode
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysmode.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_lrintl: Inlibc
?MAKE: -pick add $@ %<
?S:d_lrintl:
?S: This variable conditionally defines the HAS_LRINTL symbol, which
?S: indicates to the C program that the lrintl() routine is available
?S: to return the integral value closest to a long double (according
?S: to the current rounding mode).
?S:.
?C:HAS_LRINTL:
?C: This symbol, if defined, indicates that the lrintl routine is
?C: available to return the integral value closest to a long double
?C: (according to the current rounding mode).
?C:.
?H:#$d_lrintl HAS_LRINTL  /**/
?H:.
?LINT:set d_lrintl
: see if lrintl exists
set lrintl d_lrintl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/U/perl/d_lrintl.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_rint: Inlibc
?MAKE: -pick add $@ %<
?S:d_rint:
?S: This variable conditionally defines the HAS_RINT symbol, which
?S: indicates to the C program that the rint() routine is available.
?S:.
?C:HAS_RINT:
?C: This symbol, if defined, indicates that the rint routine is
?C: available to return the nearest integral value to x as double
?C: using the current rounding mode.
?C:.
?H:#$d_rint HAS_RINT  /**/
?H:.
?LINT:set d_rint
: see if rint exists
set rint d_rint
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_rint.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_scalbn: Inlibc
?MAKE: -pick add $@ %<
?S:d_scalbn:
?S: This variable conditionally defines the HAS_SCALBN symbol, which
?S: indicates to the C program that the scalbn() routine is available.
?S:.
?C:HAS_SCALBN:
?C: This symbol, if defined, indicates that the scalbn routine is
?C: available to multiply floating-point number by integral power
?C: of radix.
?C:.
?H:#$d_scalbn HAS_SCALBN  /**/
?H:.
?LINT:set d_scalbn
: see if scalbn exists
set scalbn d_scalbn
```

```
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_scalbn.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_logb: Inlibc
?MAKE: -pick add $@ %<
?S:d_logb:
?S: This variable conditionally defines the HAS_LOGB symbol, which
?S: indicates to the C program that the logb() routine is available
?S: to extract the exponent of x.
?S:.
?C:HAS_LOGB:
?C: This symbol, if defined, indicates that the logb routine is
?C: available to do the logb function.
?C:.
?H:#$d_logb HAS_LOGB  /**/
?H:.
?LINT:set d_logb
: see if logb exists
set logb d_logb
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_logb.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fmax: Inlibc
?MAKE: -pick add $@ %<
?S:d_fmax:
?S: This variable conditionally defines the HAS_FMAX symbol, which
?S: indicates to the C program that the fmax() routine is available.
?S:.
?C:HAS_FMAX:
?C: This symbol, if defined, indicates that the fmax routine is
?C: available to do the maximum function.
?C:.
?H:#$d_fmax HAS_FMAX  /**/
?H:.
```

```
?LINT:set d_fmax
: see if fmax exists
set fmax d_fmax
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fmax.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_ftello: Inlibc longsize
?MAKE: -pick add $@ %<
?S:d_ftello:
?S: This variable conditionally defines the HAS_FTELLO symbol, which
?S: indicates to the C program that the ftello() routine is available.
?S:.
?C:HAS_FTELLO:
?C: This symbol, if defined, indicates that the ftello routine is
?C: available to ftell beyond 32 bits (useful for ILP32 hosts).
?C:.
?H:#$d_ftello HAS_FTELLO  /**/
?H:.
?LINT:set d_ftello
: see if ftello exists
set ftello d_ftello
eval $inlibc
case "$longsize" in
8) echo "(Your long is 64 bits, so you could use ftell.)" ;;
esac
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_ftello.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_trunc: Inlibc
?MAKE: -pick add $@ %<
?S:d_trunc:
```

```
?S: This variable conditionally defines the HAS_TRUNC symbol, which
?S: indicates to the C program that the trunc() routine is available
?S: to round doubles towards zero.
?S:.
?C:HAS_TRUNC:
?C: This symbol, if defined, indicates that the trunc routine is
?C: available to round doubles towards zero.
?C:.
?H:#$d_trunc HAS_TRUNC  /**/
?H:.
?LINT:set d_trunc
: see if trunc exists
set trunc d_trunc
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_trunc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_qgcvt: Inlibc
?MAKE: -pick add $@ %<
?S:d_qgcvt:
?S: This variable conditionally defines the HAS_QGCVT symbol, which
?S: indicates to the C program that the qgcvt() routine is available.
?S:.
?C:HAS_QGCVT:
?C: This symbol, if defined, indicates that the qgcvt routine is
?C: available to convert long doubles ("quad doubles") to strings.
?C: This is a low-level routine hopefully faster than sprintf.
?C:.
?H:#$d_qgcvt HAS_QGCVT  /**/
?H:.
?LINT:set d_qgcvt
: see if qgcvt exists
set qgcvt d_qgcvt
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_qgcvt.U

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```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_remquo: Inlibc
?MAKE: -pick add $@ %<
?S:d_remquo:
?S: This variable conditionally defines the HAS_REMQUO symbol, which
?S: indicates to the C program that the remquo() routine is available.
?S:.
?C:HAS_REMQUO:
?C: This symbol, if defined, indicates that the remquo routine is
?C: available to return the remainder and part of quotient.
?C:.
?H:#$d_remquo HAS_REMQUO  /**/
?H:.
?LINT:set d_remquo
: see if remquo exists
set remquo d_remquo
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_remquo.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_exp2: Inlibc
?MAKE: -pick add $@ %<
?S:d_exp2:
?S: This variable conditionally defines the HAS_EXP2 symbol, which
?S: indicates to the C program that the exp2() routine is available.
?S:.
?C:HAS_EXP2:
?C: This symbol, if defined, indicates that the exp2 routine is
?C: available to do the 2**x function.
?C:.
?H:#$d_exp2 HAS_EXP2  /**/
?H:.
?LINT:set d_exp2
: see if exp2 exists
set exp2 d_exp2
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_exp2.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fchdir: Inlibc
?MAKE: -pick add $@ %<
?S:d_fchdir:
?S: This variable conditionally defines the HAS_FCHDIR symbol, which
?S: indicates to the C program that the fchdir() routine is available.
?S:.
?C:HAS_FCHDIR:
?C: This symbol, if defined, indicates that the fchdir routine is
?C: available to change directory using a file descriptor.
?C:.
?H:#$d_fchdir HAS_FCHDIR  /**/
?H:.
?LINT:set d_fchdir
: see if fchdir exists
set fchdir d_fchdir
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fchdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2009 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_inetntop: Inlibc
?MAKE: -pick add $@ %<
?S:d_inetntop:
?S: This variable conditionally defines the HAS_INETNTOP symbol,
?S: which indicates to the C program that the inet_ntop() function
?S: is available.
?S:.
?C:HAS_INETNTOP:
```

```
?C: This symbol, if defined, indicates that the inet_ntop() function
?C: is available to parse IPv4 and IPv6 strings.
?C:.
?H:#$d_inetntop HAS_INETNTOP  /**/
?H:.
?LINT:set d_inetntop
: see if inet_ntop exists
set inet_ntop d_inetntop
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_inetntop.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_mntent.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_mntent: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_mntent:
?S: This variable conditionally defines the I_MNTENT symbol, and indicates
?S: whether a C program should include <mntent.h>.
?S:.
?C:I_MNTENT:
?C: This symbol, if defined, indicates that <mntent.h> exists and
?C: should be included.
?C:.
?H:#$i_mntent I_MNTENT  /**/
?H:.
?LINT:set i_mntent
: see if this is a mntent.h system
set mntent.h i_mntent
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_mntent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getitimer: Inlibc
?MAKE: -pick add $@ %<
?S:d_getitimer:
?S: This variable conditionally defines the HAS_GETITIMER symbol, which
?S: indicates to the C program that the getitimer() routine is available.
?S:.
?C:HAS_GETITIMER:
?C: This symbol, if defined, indicates that the getitimer routine is
?C: available to return interval timers.
?C:.
?H:#$d_getitimer HAS_GETITIMER  /**/
?H:.
?LINT:set d_getitimer
: see if getitimer exists
set getitimer d_getitimer
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getitimer.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_llround: Inlibc
?MAKE: -pick add $@ %<
?S:d_llround:
?S: This variable conditionally defines the HAS_LLROUND symbol, which
?S: indicates to the C program that the llround() routine is available
?S: to return the long long value nearest to x.
?S:.
?C:HAS_LLROUND:
?C: This symbol, if defined, indicates that the llround routine is
?C: available to return the nearest long long value.
?C:.
?H:#$d_llround HAS_LLROUND  /**/
?H:.
?LINT:set d_llround
: see if llround exists
set llround d_llround
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/U/perl/d_llround.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_tgamma: Inlibc
?MAKE: -pick add $@ %<
?S:d_tgamma:
?S: This variable conditionally defines the HAS_TGAMMA symbol, which
?S: indicates to the C program that the tgamma() routine is available
?S: for the gamma function.  See also d_lgamma.
?S:.
?C:HAS_TGAMMA:
?C: This symbol, if defined, indicates that the tgamma routine is
?C: available to do the gamma function. See also HAS_LGAMMA.
?C:.
?H:#$d_tgamma HAS_TGAMMA  /**/
?H:.
?LINT:set d_tgamma
: see if tgamma exists
set tgamma d_tgamma
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_tgamma.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysstatfs.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysstatfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysstatfs:
?S: This variable conditionally defines the I_SYSSTATFS symbol,
?S: and indicates whether a C program should include <sys/statfs.h>.
?S:.
?C:I_SYS_STATFS:
?C: This symbol, if defined, indicates that <sys/statfs.h> exists.
?C:.
?H:#$i_sysstatfs I_SYS_STATFS  /**/
?H:.
?LINT:set i_sysstatfs
```

```
: see if this is a sys/statfs.h system
set sys/statfs.h i_sysstatfs
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysstatfs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_fp_class.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_fp_class: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_fp_class:
?S: This variable conditionally defines the I_FP_CLASS symbol, and indicates
?S: whether a C program should include <fp_class.h>.
?S:.
?C:I_FP_CLASS:
?C: This symbol, if defined, indicates that <fp_class.h> exists and
?C: should be included.
?C:.
?H:#$i_fp_class I_FP_CLASS  /**/
?H:.
?LINT:set i_fp_class
: see if this is a fp_class.h system
set fp_class.h i_fp_class
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_fp_class.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_nan: Inlibc
?MAKE: -pick add $@ %<
?S:d_nan:
?S: This variable conditionally defines HAS_NAN if nan() is
?S: available to generate NaN.
?S:.
?C:HAS_NAN:
```

```
?C: This symbol, if defined, indicates that the nan routine is
?C: available to generate NaN.
?C:.
?H:#$d_nan HAS_NAN  /**/
?H:.
?LINT:set d_nan
: see if nan exists
set nan d_nan
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_nan.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_expm1: Inlibc
?MAKE: -pick add $@ %<
?S:d_expm1:
?S: This variable conditionally defines the HAS_EXPM1 symbol, which
?S: indicates to the C program that the expm1() routine is available.
?S:.
?C:HAS_EXPM1:
?C: This symbol, if defined, indicates that the expm1 routine is
?C: available to do the exp(x) - 1 when x is near 1 function.
?C:.
?H:#$d_expm1 HAS_EXPM1  /**/
?H:.
?LINT:set d_expm1
: see if expm1 exists
set expm1 d_expm1
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_expm1.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fmin: Inlibc
?MAKE: -pick add $@ %<
?S:d_fmin:
?S: This variable conditionally defines the HAS_FMIN symbol, which
?S: indicates to the C program that the fmin() routine is available.
```

```
?S:.
?C:HAS_FMIN:
?C: This symbol, if defined, indicates that the fmin routine is
?C: available to do the minimum function.
?C:.
?H:#$d_fmin HAS_FMIN  /**/
?H:.
?LINT:set d_fmin
: see if fmin exists
set fmin d_fmin
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fmin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtold: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtold:
?S: This variable conditionally defines the HAS_STRTOLD symbol, which
?S: indicates to the C program that the strtold() routine is available.
?S:.
?C:HAS_STRTOLD:
?C: This symbol, if defined, indicates that the strtold routine is
?C: available to convert strings to long doubles.
?C:.
?H:#$d_strtold HAS_STRTOLD  /**/
?H:.
?LINT:set d_strtold
: see if strtold exists
set strtold d_strtold
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strtold.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
```

```
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_frexpl: Inlibc
?MAKE: -pick add $@ %<
?S:d_frexpl:
?S: This variable conditionally defines the HAS_FREXPL symbol, which
?S: indicates to the C program that the frexpl() routine is available.
?S:.
?C:HAS_FREXPL:
?C: This symbol, if defined, indicates that the frexpl routine is
?C: available to break a long double floating-point number into
?C: a normalized fraction and an integral power of 2.
?C:.
?H:#$d_frexpl HAS_FREXPL  /**/
?H:.
?LINT:set d_frexpl
: see if frexpl exists
set frexpl d_frexpl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_frexpl.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_log2: Inlibc
?MAKE: -pick add $@ %<
?S:d_log2:
?S: This variable conditionally defines the HAS_LOG2 symbol, which
?S: indicates to the C program that the log2() routine is available
?S: to compute log base two.
?S:.
?C:HAS_LOG2:
?C: This symbol, if defined, indicates that the log2 routine is
?C: available to do the log2 function.
?C:.
?H:#$d_log2 HAS_LOG2  /**/
?H:.
?LINT:set d_log2
: see if log2 exists
set log2 d_log2
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_log2.U
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```
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS:
?MAKE:i_fenv: Inhdr
?MAKE: -pick add $@ %<
?S:i_fenv:
?S: This variable conditionally defines the I_FENV symbol, which
?S: indicates to the C program that <fenv.h> exists and should
?S: be included.
?S:.
?C:I_FENV:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <fenv.h> to get the floating point environment definitions.
?C:.
?H:#$i_fenv I_FENV  /**/
?H:.
?LINT:set i_fenv
: see if this is a fenv.h system
set fenv.h i_fenv
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_fenv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getcwd: Inlibc
?MAKE: -pick add $@ %<
?S:d_getcwd:
?S: This variable conditionally defines the HAS_GETCWD symbol, which
?S: indicates to the C program that the getcwd() routine is available
?S: to get the current working directory.
?S:.
?C:HAS_GETCWD :
?C: This symbol, if defined, indicates that the getcwd routine is
```

```
?C: available to get the current working directory.
?C:.
?H:#$d_getcwd HAS_GETCWD  /**/
?H:.
?LINT:set d_getcwd
: see if getcwd exists
set getcwd d_getcwd
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getcwd.U
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```
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?RCS:
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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isfinitel: Inlibc
?MAKE: -pick add $@ %<
?S:d_isfinitel:
?S: This variable conditionally defines the HAS_ISFINITEL symbol, which
?S: indicates to the C program that the isfinitel() routine is available.
?S:.
?C:HAS_ISFINITEL:
?C: This symbol, if defined, indicates that the isfinitel routine is
?C: available to check whether a long double is finite.
?C: (non-infinity non-NaN).
?C:.
?H:#$d_isfinitel HAS_ISFINITEL  /**/
?H:.
?LINT:set d_isfinitel
: see if isfinitel exists
set isfinitel d_isfinitel
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_isfinitel.U
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```
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?RCS:
?MAKE:d_nexttoward: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_nexttoward:
?S: This variable conditionally defines HAS_NEXTTOWARD if nexttoward()
?S: is available to return the next machine representable long double from
?S: x in direction y.
?S:.
?C:HAS_NEXTTOWARD:
?C: This symbol, if defined, indicates that the nexttoward routine is
?C: available to return the next machine representable long double from
?C: x in direction y.
?C:.
?H:#$d_nexttoward HAS_NEXTTOWARD  /**/
?H:.
?LINT:set d_nexttoward
: see if nexttoward exists
set nexttoward d_nexttoward
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_nexttoward.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_mkdtemp: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkdtemp:
?S: This variable conditionally defines the HAS_MKDTEMP symbol, which
?S: indicates to the C program that the mkdtemp() routine is available
?S: to exclusively create a uniquely named temporary directory.
?S:.
?C:HAS_MKDTEMP :
?C: This symbol, if defined, indicates that the mkdtemp routine is
?C: available to exclusively create a uniquely named temporary directory.
?C:.
?H:#$d_mkdtemp HAS_MKDTEMP  /**/
?H:.
?LINT:set d_mkdtemp
: see if mkdtemp exists
set mkdtemp d_mkdtemp
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_mkdtemp.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_nextafter: Inlibc
?MAKE: -pick add $@ %<
?S:d_nextafter:
?S: This variable conditionally defines HAS_NEXTAFTER if nextafter()
?S: is available to return the next machine representable double from
?S: x in direction y.
?S:.
?C:HAS_NEXTAFTER:
?C: This symbol, if defined, indicates that the nextafter routine is
?C: available to return the next machine representable double from
?C: x in direction y.
?C:.
?H:#$d_nextafter HAS_NEXTAFTER  /**/
?H:.
?LINT:set d_nextafter
: see if nextafter exists
set nextafter d_nextafter
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_nextafter.U
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```
?RCS: $Id$
?RCS:
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?RCS:
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?RCS:
?MAKE:d_socks5_init: Inlibc
?MAKE: -pick add $@ %<
?S:d_socks5_init:
?S: This variable conditionally defines the HAS_SOCKS5_INIT symbol, which
?S: indicates to the C program that the socks5_init() routine is available.
?S:.
?C:HAS_SOCKS5_INIT:
?C: This symbol, if defined, indicates that the socks5_init routine is
?C: available to initialize SOCKS 5.
```

```
?C:.
?H:#$d_socks5_init HAS_SOCKS5_INIT  /**/
?H:.
?LINT:set d_socks5_init
: see if socks5_init exists
set socks5_init d_socks5_init
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_socks5_init.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:i_quadmath: Inhdr
?MAKE: -pick add $@ %<
?S:i_quadmath:
?S: This variable conditionally defines I_QUADMATH, which indicates
?S: to the C program that it should include <quadmath.h>.
?S:.
?C:I_QUADMATH:
?C: This symbol, if defined, indicates that <quadmath.h> exists and
?C: should be included.
?C:.
?H:#$i_quadmath I_QUADMATH  /**/
?H:.
?LINT:set i_quadmath
: see if this is a quadmath.h system
set quadmath.h i_quadmath
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_quadmath.U
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```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2019 Karl Williamson
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_towupper: Inlibc
?MAKE: -pick add $@ %<
?S:d_towupper:
```

```
?S: This variable conditionally defines the HAS_TOWUPPER symbol, which
?S: indicates to the C program that the towupper() routine is available.
?S:.
?C:HAS_TOWUPPER:
?C: This symbol, if defined, indicates that the towupper () routine is
?C: available to do case conversion.
?C:.
?H:#$d_towupper HAS_TOWUPPER  /**/
?H:.
?LINT:set d_towupper
: see if towupper exists
set towupper d_towupper
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_towupper.U
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```
?RCS: $Id: i_sysstatvfs.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysstatvfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysstatvfs:
?S: This variable conditionally defines the I_SYSSTATVFS symbol,
?S: and indicates whether a C program should include <sys/statvfs.h>.
?S:.
?C:I_SYS_STATVFS:
?C: This symbol, if defined, indicates that <sys/statvfs.h> exists and
?C: should be included.
?C:.
?H:#$i_sysstatvfs I_SYS_STATVFS  /**/
?H:.
?LINT:set i_sysstatvfs
: see if this is a sys/statvfs.h system
set sys/statvfs.h i_sysstatvfs
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysstatvfs.U
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* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/files/Jmake.tmpl
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```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_log1p: Inlibc
?MAKE: -pick add $@ %<
?S:d_log1p:
?S: This variable conditionally defines the HAS_LOG1P symbol, which
?S: indicates to the C program that the logp1() routine is available
?S: to compute log(1 + x) for values of x close to zero.
?S:.
?C:HAS_LOG1P:
?C: This symbol, if defined, indicates that the log1p routine is
?C: available to do the logarithm of 1 plus argument function.
?C:.
?H:#$d_log1p HAS_LOG1P  /**/
?H:.
?LINT:set d_log1p
: see if log1p exists
set log1p d_log1p
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_log1p.U
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```
?RCS: $Id: i_crypt.U,v $
?RCS:
?RCS: Copyright (c) 2002 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_crypt: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_crypt:
?S: This variable conditionally defines the I_CRYPT symbol, and indicates
?S: whether a C program should include <crypt.h>.
?S:.
?C:I_CRYPT:
?C: This symbol, if defined, indicates that <crypt.h> exists and
```

```
?C: should be included.
?C:.
?H:#$i_crypt I_CRYPT  /**/
?H:.
?LINT:set i_crypt
: see if this is a crypt.h system
set crypt.h i_crypt
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_crypt.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_lroundl: Inlibc
?MAKE: -pick add $@ %<
?S:d_lroundl:
?S: This variable conditionally defines the HAS_LROUNDL symbol, which
?S: indicates to the C program that the lroundl() routine is available
?S: to return the integral value nearest to x away from zero.
?S:.
?C:HAS_LROUNDL:
?C: This symbol, if defined, indicates that the lroundl routine is
?C: available to return the nearest integral value away from zero of
?C: the long double argument value.
?C:.
?H:#$d_lroundl HAS_LROUNDL  /**/
?H:.
?LINT:set d_lroundl
: see if lroundl exists
set lroundl d_lroundl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lroundl.U
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```
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?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
```

```
?MAKE:d_fstatfs : Inlibc
?MAKE: -pick add $@ %<
?S:d_fstatfs:
?S: This variable conditionally defines the HAS_FSTATFS symbol, which
?S: indicates to the C program that the fstatfs() routine is available.
?S:.
?C:HAS_FSTATFS:
?C: This symbol, if defined, indicates that the fstatfs routine is
?C: available to stat filesystems by file descriptors.
?C:.
?H:#$d_fstatfs HAS_FSTATFS  /**/
?H:.
?LINT:set d_fstatfs
: see if fstatfs exists
set fstatfs d_fstatfs
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fstatfs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_finitel: Inlibc
?MAKE: -pick add $@ %<
?S:d_finitel:
?S: This variable conditionally defines the HAS_FINITEL symbol, which
?S: indicates to the C program that the finitel() routine is available.
?S:.
?C:HAS_FINITEL:
?C: This symbol, if defined, indicates that the finitel routine is
?C: available to check whether a long double is finite
?C: (non-infinity non-NaN).
?C:.
?H:#$d_finitel HAS_FINITEL  /**/
?H:.
?LINT:set d_finitel
: see if finitel exists
set finitel d_finitel
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_finitel.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_lround: Inlibc
?MAKE: -pick add $@ %<
?S:d_lround:
?S: This variable conditionally defines the HAS_LROUND symbol, which
?S: indicates to the C program that the lround() routine is available
?S: to return the integral value nearest to x.
?S:.
?C:HAS_LROUND:
?C: This symbol, if defined, indicates that the lround routine is
?C: available to return the nearest integral value.
?C:.
?H:#$d_lround HAS_LROUND  /**/
?H:.
?LINT:set d_lround
: see if lround exists
set lround d_lround
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lround.U
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?RCS:
?MAKE:d_recvmsg: Inlibc
?MAKE: -pick add $@ %<
?S:d_recvmsg:
?S: This variable conditionally defines the HAS_RECVMSG symbol, which
?S: indicates to the C program that the recvmsg() routine is available.
?S:.
?C:HAS_RECVMSG:
?C: This symbol, if defined, indicates that the recvmsg routine is
?C: available to send structured socket messages.
?C:.
?H:#$d_recvmsg HAS_RECVMSG  /**/
```

```
?H:.
?LINT:set d_recvmsg
: see if recvmsg exists
set recvmsg d_recvmsg
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_recvmsg.U
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?RCS:
?MAKE:d_getnameinfo: Inlibc
?MAKE: -pick add $@ %<
?S:d_getnameinfo:
?S: This variable conditionally defines the HAS_GETNAMEINFO symbol,
?S: which indicates to the C program that the getnameinfo() function
?S: is available.
?S:.
?C:HAS_GETNAMEINFO:
?C: This symbol, if defined, indicates that the getnameinfo() function
?C: is available for use.
?C:.
?H:#$d_getnameinfo HAS_GETNAMEINFO  /**/
?H:.
?LINT:set d_getnameinfo
: see if getnameinfo exists
set getnameinfo d_getnameinfo
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getnameinfo.U
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```
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?RCS:
```

```
?MAKE:i_prot: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_prot:
?S: This variable conditionally defines the I_PROT symbol, and indicates
?S: whether a C program should include <prot.h>.
?S:.
?C:I_PROT:
?C: This symbol, if defined, indicates that <prot.h> exists and
?C: should be included.
?C:.
?H:#$i_prot I_PROT  /**/
?H:.
?LINT:set i_prot
: see if this is a prot.h system
set prot.h i_prot
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_prot.U
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?RCS:
?MAKE:d_llrint: Inlibc
?MAKE: -pick add $@ %<
?S:d_llrint:
?S: This variable conditionally defines the HAS_LLRINT symbol, which
?S: indicates to the C program that the llrint() routine is available
?S: to return the long long value closest to a double (according
?S: to the current rounding mode).
?S:.
?C:HAS_LLRINT:
?C: This symbol, if defined, indicates that the llrint routine is
?C: available to return the long long value closest to a double
?C: (according to the current rounding mode).
?C:.
?H:#$d_llrint HAS_LLRINT  /**/
?H:.
?LINT:set d_llrint
: see if llrint exists
set llrint d_llrint
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_llrint.U

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Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/metaconfig.html
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?MAKE:d_strtoq: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtoq:
?S: This variable conditionally defines the HAS_STRTOQ symbol, which
?S: indicates to the C program that the strtoq() routine is available.
?S:.
?C:HAS_STRTOQ:
?C: This symbol, if defined, indicates that the strtoq routine is
?C: available to convert strings to long longs (quads).
?C:.
?H:#$d_strtoq HAS_STRTOQ  /**/
?H:.
?LINT:set d_strtoq
: see if strtoq exists
set strtoq d_strtoq
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strtoq.U
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```
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?RCS:
?MAKE:d_truncl: Inlibc
?MAKE: -pick add $@ %<
?S:d_truncl:
?S: This variable conditionally defines the HAS_TRUNCL symbol, which
?S: indicates to the C program that the truncl() routine is available
?S: to round long doubles towards zero. If copysignl is also present,
?S: we can emulate modfl.
```

```
?S:.
?C:HAS_TRUNCL :
?C: This symbol, if defined, indicates that the truncl routine is
?C: available. If copysignl is also present we can emulate modfl.
?C:.
?H:#$d_truncl HAS_TRUNCL  /**/
?H:.
?LINT:set d_truncl
: see if truncl exists
set truncl d_truncl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_truncl.U
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?RCS:
?MAKE:d_localeconv_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_localeconv_l:
?S: This variable conditionally defines the HAS_LOCALECONV_L symbol, which
?S: indicates to the C program that the localeconv_l() routine is available.
?S:.
?C:HAS_LOCALECONV_L:
?C: This symbol, if defined, indicates that the localeconv_l routine is
?C: available to query certain information about a locale.
?C:.
?H:#$d_localeconv_l HAS_LOCALECONV_L  /**/
?H:.
?LINT:set d_localeconv_l
: see if localeconv_l exists
set localeconv_l d_localeconv_l
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1855222460_1701164249.130429/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_localeconv_l.U

1.1918 grpc-go 1.59.0

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1.1919 benbjohnson-clock 1.3.0

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1.1920 btree 1.0.0

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1.1921 go-humanize 1.0.1

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1.1922 go-toml 1.9.5

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localtime.go, localtime_test.go:

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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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1.1923 gax-go 2.12.0

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1.1924 backoff 4.2.1

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1.1925 file-type 1.1.3

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1.1926 hashstructure 2.0.2

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1.1927 httpsnoop 1.0.4

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1.1928 open-telemetry-opentelemetry-collector-contrib 0.46.1

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1.1929 go-jose-go-jose 3.0.1

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1.1931 ipmi-tool 1.8.18-11ubuntu2.1

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1.1932 kexec-tools 2.0.22-2ubuntu2.22.04.2

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1.1937 libnghttp2-14 1.52.0-1+deb12u1

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1.1938 jackson-module-parameter-names 2.13.5

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1.1939 jackson-datatype-guava 2.13.5

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1.1940 jackson-module-blackbird 2.13.5

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1.1942 cli 24.0.7+incompatible

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1.1943 classmate 1.6.0

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Other developers who have contributed code are:

* Brian Langel

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1.1944 aws-sdk-go-v2 v1.16.0

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```
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package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
```

```
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
 nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
```

```
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
```

```
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string
```

```
 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err
 = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
```

```
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
```

```
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
```

```
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil
 {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
```

```
    - name: Get Diff
      run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
    - name: Get Target Files
      run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
       uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer
```

```
 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity *types.DatetimeRange

 //
 Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
```

```
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return
```

```
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
```

```
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
```

```
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
```

```
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
  return err
```

```
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}
```

AWS SDK for Go
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{
  "smithy": "1.0",
  "metadata": {
    "suppressions": [
      {
        "id": "HttpMethodSemantics",
        "namespace": "*"
      },
      {
        "id": "HttpResponseCodeSemantics",
        "namespace": "*"
      },
      {
        "id": "PaginatedTrait",
        "namespace": "*"
      },
      {
        "id": "HttpHeaderTrait",
        "namespace": "*"
      },
      {
        "id": "HttpUriConflict",
        "namespace": "*"
      },
      {
        "id": "Service",
        "namespace": "*"
      }
    ]
  },
  "shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
      "type": "service",
      "version": "2018-08-01",
      "operations": [
        {
          "target": "com.amazonaws.licensemanager#AcceptGrant"
        },

 {
          "target": "com.amazonaws.licensemanager#CheckInLicense"
        },
        {
          "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
        },

{
"target": "com.amazonaws.licensemanager#CheckoutLicense"
},
{
"target": "com.amazonaws.licensemanager#CreateGrant"
},
{
"target": "com.amazonaws.licensemanager#CreateGrantVersion"
},
{
"target": "com.amazonaws.licensemanager#CreateLicense"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseVersion"
},
{
"target": "com.amazonaws.licensemanager#CreateToken"
},
{
"target": "com.amazonaws.licensemanager#DeleteGrant"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicense"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#DeleteToken"
},
{
"target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

},
{
"target": "com.amazonaws.licensemanager#GetAccessToken"

},
{
"target": "com.amazonaws.licensemanager#GetGrant"
},
{
"target": "com.amazonaws.licensemanager#GetLicense"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseUsage"
},
{
"target": "com.amazonaws.licensemanager#GetServiceSettings"
},
{
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#ListDistributedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
"target": "com.amazonaws.licensemanager#ListLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

"target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListResourceInventory"
},
{
"target": "com.amazonaws.licensemanager#ListTagsForResource"
},
{
"target": "com.amazonaws.licensemanager#ListTokens"
},
{
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#RejectGrant"
},
{
"target": "com.amazonaws.licensemanager#TagResource"
},
{
"target": "com.amazonaws.licensemanager#UntagResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateServiceSettings"
}
],
"traits": {
"aws.api#service": {
"sdkId": "License Manager",
"arnNamespace": "license-manager",
"cloudFormationName": "LicenseManager",
"cloudTrailEventSource": "licensemanager.amazonaws.com",

"endpointPrefix":
"license-manager"
},
"aws.auth#sigv4": {
"name": "license-manager"
},
"aws.protocols#awsJson1_1": {},
"smithy.api#documentation": " License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers. ",
"smithy.api#title": "AWS License Manager",
"smithy.api#xmlNamespace": {
"uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
}
}
},
"com.amazonaws.licensemanager#AcceptGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#AcceptGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#AcceptGrantResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {

"smithy.api#documentation": " Accepts the specified grant. "
}
},
"com.amazonaws.licensemanager#AcceptGrantRequest":
{
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#AcceptGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant
status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
}
},
"com.amazonaws.licensemanager#AccessDeniedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {

```
            "aws.protocols#awsQueryError": {
                "code": "ServiceAccessDenied",
                "httpResponseCode": 401
            },
            "smithy.api#documentation": "<p>Access to resource denied.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 401
        }
    },
    "com.amazonaws.licensemanager#AllowedOperation":
{
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "CreateGrant",
                    "name": "CREATE_GRANT"
                },
                {
                    "value": "CheckoutLicense",
                    "name": "CHECKOUT_LICENSE"
                },
                {
                    "value": "CheckoutBorrowLicense",
                    "name": "CHECKOUT_BORROW_LICENSE"
                },
                {
                    "value": "CheckInLicense",
                    "name": "CHECK_IN_LICENSE"
                },
                {
                    "value": "ExtendConsumptionLicense",
                    "name": "EXTEND_CONSUMPTION_LICENSE"
                },
                {
                    "value": "ListPurchasedLicenses",
                    "name": "LIST_PURCHASED_LICENSES"
                 },
                {
                    "value": "CreateToken",
                    "name": "CREATE_TOKEN"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#AllowedOperationList": {
        "type": "list",
        "member": {
```

"target": "com.amazonaws.licensemanager#AllowedOperation"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 7
}
}
},
"com.amazonaws.licensemanager#Arn": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
}
},
"com.amazonaws.licensemanager#ArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
}
},
"com.amazonaws.licensemanager#AuthorizationException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "AuthorizationFailure",
"httpResponseCode": 403
},
"smithy.api#documentation": " The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n policy associated with this account. ",
"smithy.api#error": "client",
"smithy.api#httpError": 403
}
},
"com.amazonaws.licensemanager#AutomatedDiscoveryInformation":
{
"type": "structure",
"members": {

```
        "LastRunTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes automated discovery.</p>"
    }
},
"com.amazonaws.licensemanager#Boolean": {
    "type": "boolean"
},
"com.amazonaws.licensemanager#BorrowConfiguration": {
    "type": "structure",
    "members": {
        "AllowEarlyCheckIn": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Indicates whether early check-ins are allowed.</p>",
                 "smithy.api#required": {}
            }
        },
        "MaxTimeToLiveInMinutes": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
    }
},
"com.amazonaws.licensemanager#BoxBoolean": {
    "type": "boolean",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#BoxInteger": {
    "type": "integer",
    "traits": {
        "smithy.api#box": {}
    }
},
```

"com.amazonaws.licensemanager#BoxLong": {

"type": "long",
"traits": {
"smithy.api#box": {}
}
},
"com.amazonaws.licensemanager#CheckInLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks in the specified license. Check in a license when it is no longer in use. "
}
},
"com.amazonaws.licensemanager#CheckInLicenseRequest": {
"type": "structure",

"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",

"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
}
}
},
"com.amazonaws.licensemanager#CheckInLicenseResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                 "traits": {
                    "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
                    "smithy.api#required": {}
                }
            },
            "DigitalSignatureMethod": {
                "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
                "traits": {
                    "smithy.api#documentation": "<p>Digital signature method. The possible value is JSON Web
Signature (JWS) algorithm PS384.\n        For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>",
                    "smithy.api#required": {}
                }
```

```
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
 "<p>Node ID.</p>"
                }
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",

 "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>"
                }
            },
            "EntitlementsAllowed": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        },
        "SignedToken": {

        "target": "com.amazonaws.licensemanager#SignedToken",
            "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
            }
        },
        "IssuedAt": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
            }
        },
        "Expiration": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
            }
        },
        "CheckoutMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
                "smithy.api#documentation":
"<p>Information about constraints.</p>"
            }
        }
    }
  },
  "com.amazonaws.licensemanager#CheckoutLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
```

"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks out the specified license. "
}
},
"com.amazonaws.licensemanager#CheckoutLicenseRequest": {
"type": "structure",
"members": {
"ProductSKU":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. ",
"smithy.api#required": {}
}
},
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. ",
"smithy.api#required": {}
}
},
"KeyFingerprint": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Key fingerprint identifying the license. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Node ID. "
}
}
}
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
"type": "structure",
"members": {
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation":
" Allowed license entitlements. "
}
},
"SignedToken": {
"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",

"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the checkout license. "
}
}
}
},
"com.amazonaws.licensemanager#CheckoutType": {
"type": "string",
"traits": {
"smithy.api#enum": [
{

"value": "PROVISIONAL",
"name": "PROVISIONAL"
},
{
"value": "PERPETUAL",
"name": "PERPETUAL"
}
]
}
},
"com.amazonaws.licensemanager#ClientRequestToken":
{
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 36
}
}
},
"com.amazonaws.licensemanager#ClientToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#ConflictException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ConflictException",
"httpResponseCode": 409
},
"smithy.api#documentation": " There
was a conflict processing the request. Try your request again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 409
}
},

```
"com.amazonaws.licensemanager#ConsumedLicenseSummary": {
    "type": "structure",
    "members": {
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about license consumption.</p>"
     }
},
"com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
    }
},
"com.amazonaws.licensemanager#ConsumptionConfiguration": {
    "type": "structure",
    "members": {
        "RenewType": {
            "target": "com.amazonaws.licensemanager#RenewType",
            "traits": {
                "smithy.api#documentation": "<p>Renewal frequency.</p>"
            }
        },
        "ProvisionalConfiguration": {
            "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
            }
        },
        "BorrowConfiguration": {

            "target": "com.amazonaws.licensemanager#BorrowConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
            }
        }
```

```
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },

        {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of
license entitlements with specific Amazon Web Services accounts.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantRequest": {
        "type": "structure",
        "members": {

  "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
```

"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},

"Principals": {
"target": "com.amazonaws.licensemanager#PrincipalArnList",
"traits": {
"smithy.api#documentation": " The grant principals. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CreateGrantResponse":
{
"type": "structure",
"members": {

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            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersion": {
        "type": "operation",
        "input": {

"target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
```

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            {

              "target": "com.amazonaws.licensemanager#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant.</p>"
          }
        },
        "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
          "type": "structure",
          "members": {
            "ClientToken": {
              "target": "com.amazonaws.licensemanager#ClientToken",
              "traits": {
                "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                "smithy.api#required": {}
              }
            },
            "GrantArn": {
              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                 "smithy.api#required": {}
              }
            },
            "GrantName": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Grant name.</p>"
              }
            },
            "AllowedOperations": {
              "target": "com.amazonaws.licensemanager#AllowedOperationList",
              "traits": {
                "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
              }
            },
            "Status": {
              "target": "com.amazonaws.licensemanager#GrantStatus",
              "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
              }
            },
            "StatusReason": {
              "target": "com.amazonaws.licensemanager#StatusReasonMessage",
```

"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the grant. "
}
}
}
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant
status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New version of the grant. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

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            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
```

"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Creates a license configuration. \n A license configuration is an abstraction of a customer license
agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a \n license must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension used to track the license inventory. ",
"smithy.api#required": {}
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {

"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances. "
}

```
            },
            "LicenseRules": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>License rules. The syntax is #name=value (for example,
#allowedTenancy=EC2-DedicatedHost). The available rules \n        vary by dimension, as follows.</p>\n
<ul>\n            <li>\n              <p>\n                <code>Cores</code> dimension: <code>allowedTenancy</code> |\n
          <code>licenseAffinityToHost</code> |\n              <code>maximumCores</code> |
<code>minimumCores</code>\n              </p>\n            </li>\n            <li>\n              <p>\n
<code>Instances</code> dimension: <code>allowedTenancy</code> | \n              <code>maximumCores</code>
 | <code>minimumCores</code> |\n              <code>maximumSockets</code> | <code>minimumSockets</code>
|\n              <code>maximumVcpus</code> | <code>minimumVcpus</code>\n              </p>\n            </li>\n
<li>\n              <p>\n                <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n
<code>licenseAffinityToHost</code> |\n              <code>maximumSockets</code> |
<code>minimumSockets</code>\n              </p>\n            </li>\n            <li>\n              <p>\n
<code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n
<code>honorVcpuOptimization</code> | \n              <code>maximumVcpus</code> |
<code>minimumVcpus</code>\n              </p>\n            </li>\n        </ul>\n        <p>The unit for
<code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n        values for
<code>allowedTenancy</code> are <code>EC2-Default</code>,
 <code>EC2-DedicatedHost</code>, and \n        <code>EC2-DedicatedInstance</code>. The possible values for
<code>honorVcpuOptimization</code> are \n        <code>True</code> and <code>False</code>.</p>"
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Tags to add to the license configuration.</p>"
                }
            },
            "DisassociateWhenNotFound": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
                }
            },
            "ProductInformationList": {
                "target": "com.amazonaws.licensemanager#ProductInformationList",
                "traits":
 {
                    "smithy.api#documentation": "<p>Product information.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse": {
        "type": "structure",
```

```
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest":
{
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
```

"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource you are converting the license type for. ",
"smithy.api#required": {}
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting from. \n For the structure of the source license, see Convert a license type using the AWS CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting to. For the structure of the destination license, see Convert a license type using the AWS CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the created license type conversion task. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a report generator. "
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target":
"com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types an be generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}

```
            }
        },

    "ReportContext": {
            "target": "com.amazonaws.licensemanager#ReportContext",
            "traits": {
                "smithy.api#documentation": "<p>Defines the type of license configuration the report generator
tracks.</p>",
                "smithy.api#required": {}
            }
        },
        "ReportFrequency": {
            "target": "com.amazonaws.licensemanager#ReportFrequency",
            "traits": {
                "smithy.api#documentation": "<p>Frequency by which reports are generated.  Reports can be
generated daily, monthly, or weekly.</p>",
                "smithy.api#required": {}
            }
        },
        "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientRequestToken",
            "traits": {
                "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide
 to ensure the idempotency of the request.</p>",
                "smithy.api#required": {}
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the report generator.</p>"
            }
        },
        "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
                "smithy.api#documentation": "<p>Tags to add to the report generator.</p>"
            }
        }
      }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
      "type": "structure",
      "members": {
        "LicenseManagerReportGeneratorArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits":
```

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{
                "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the new report generator.</p>"
            }
        }
    }
  },
  "com.amazonaws.licensemanager#CreateLicenseRequest": {
    "type": "structure",
    "members": {
      "LicenseName": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>License name.</p>",
          "smithy.api#required": {}
        }
      },
      "ProductName": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Product name.</p>",
          "smithy.api#required": {}
        }
      },
      "ProductSKU": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Product SKU.</p>",
          "smithy.api#required": {}
        }
      },
      "Issuer": {
        "target": "com.amazonaws.licensemanager#Issuer",
        "traits": {
          "smithy.api#documentation": "<p>License issuer.</p>",
          "smithy.api#required": {}
        }
      },
      "HomeRegion": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Home Region for the license.</p>",
          "smithy.api#required": {}
        }
      },
      "Validity": {
        "target": "com.amazonaws.licensemanager#DatetimeRange",
        "traits": {
```

"smithy.api#documentation":
" Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {

"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}

}
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
"type": "structure",

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        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
              "smithy.api#documentation": "<p>License status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License version.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseVersion":
{
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#RedirectException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
```

```
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License name.</p>",
                "smithy.api#required": {}
            }
        },
        "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product name.</p>",
                "smithy.api#required": {}
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#Issuer",
            "traits": {
                "smithy.api#documentation": "<p>License issuer.</p>",
                "smithy.api#required": {}
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation":
```

" Home Region of the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target":
"com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}

```
            }
        },
        "SourceVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Current version of the license.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>License ARN.</p>"
            }
        },

   "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>New version of the license.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CreateToken": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateTokenResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
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{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a long-lived token. \n A refresh token is a JWT token used to get an access token. With an access token,\n you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n call License Manager to manage the specified license. "
}
},
"com.amazonaws.licensemanager#CreateTokenRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n JWT token. ",
"smithy.api#required": {}
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n License Manager does not check whether the roles are in use. "
}
},
"ExpirationInDays": {
"target": "com.amazonaws.licensemanager#Integer",

"traits": {
"smithy.api#documentation": " Token expiration, in days, counted from token creation. The default is 365 days. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller to be included in the JWT token. The data is mapped\n to the amr claim of the JWT token. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Idempotency token, valid for 10 minutes. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CreateTokenResponse": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. "
}
},
"TokenType": {
"target": "com.amazonaws.licensemanager#TokenType",
"traits": {
"smithy.api#documentation": " Token type. "
}
},
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token, encoded as a JWT token. "
}
}
}
},
"com.amazonaws.licensemanager#DateTime": {
"type": "timestamp"

```
    },
    "com.amazonaws.licensemanager#DatetimeRange": {
        "type": "structure",
        "members": {
            "Begin": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Start of the time range.</p>",
                    "smithy.api#required": {}
                }
            },
            "End": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>End of the time range.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC
format.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
```

```
  },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      },
      {
        "target": "com.amazonaws.licensemanager#ValidationException"
      }
    ],
    "traits": {
      "smithy.api#documentation": "<p>Deletes the specified grant.</p>"
    }
  },
  "com.amazonaws.licensemanager#DeleteGrantRequest": {
    "type": "structure",
    "members": {
      "GrantArn": {
        "target": "com.amazonaws.licensemanager#Arn",
        "traits": {
          "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
          "smithy.api#required": {}
        }
      },
      "StatusReason": {
        "target": "com.amazonaws.licensemanager#StatusReasonMessage",
        "traits": {

    "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
        }
      },
      "Version": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Current version of the grant.</p>",
          "smithy.api#required": {}
        }
      }
    }
  },
  "com.amazonaws.licensemanager#DeleteGrantResponse": {
    "type": "structure",
    "members": {
      "GrantArn": {
        "target": "com.amazonaws.licensemanager#Arn",
        "traits": {
          "smithy.api#documentation": "<p>Grant ARN.</p>"
        }
      },
      "Status": {
```

"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation":
" Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
}
},
"com.amazonaws.licensemanager#DeleteLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],

"traits": {
"smithy.api#documentation": " Deletes the specified license. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license configuration. \n You cannot delete a license configuration
that is in use. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the license configuration. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {

"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified report generator. \n This action deletes the report generator, which stops it from generating future reports.\n The action cannot be reversed. It has no effect on the previous reports from this generator. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to be deleted. ",
"smithy.api#required": {}
}
}
}
},

"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#DeleteLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#DeleteLicenseResponse": {
"type": "structure",
"members": {
"Status": {
"target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"DeletionDate": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date when the license is deleted. "
}

```
            }
        }
    },
    "com.amazonaws.licensemanager#DeleteToken": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
        },
        "errors": [
            {

      "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
        }

  },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>",
```

"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#DeleteTokenResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#DigitalSignatureMethod": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "JWT_PS384",
"name": "JWT_PS384"
}
]
}
},
"com.amazonaws.licensemanager#Entitlement": {
"type": "structure",

"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement resource. Use only if the unit is None. "
}
},
"MaxCount": {
"target": "com.amazonaws.licensemanager#Long",
"traits": {
"smithy.api#documentation": " Maximum entitlement count. Use if the unit is not None. "
}
},
"Overage": {
"target": "com.amazonaws.licensemanager#BoxBoolean",

"traits": {
"smithy.api#documentation": " Indicates whether overages are allowed. "

```
            }
          },
          "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementUnit",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement unit.</p>",
              "smithy.api#required": {}
            }
          },
          "AllowCheckIn": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>Indicates whether check-ins are allowed.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes a resource entitled for use with a license.</p>"
        }
      },
      "com.amazonaws.licensemanager#EntitlementData": {
        "type": "structure",
         "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement data name.</p>",
              "smithy.api#required": {}
            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement data value.</p>"
            }
          },
          "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement data unit.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Data associated
with an entitlement resource.</p>"
        }
```

```
},
"com.amazonaws.licensemanager#EntitlementDataList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#EntitlementData"
    }
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "Count",
                "name": "COUNT"
            },
            {
                "value": "None",
                "name": "NONE"
            },
            {
                "value": "Seconds",
                "name": "SECONDS"
            },
            {
                "value": "Microseconds",
                "name": "MICROSECONDS"
            },
            {

"value": "Milliseconds",
                "name": "MILLISECONDS"
            },
            {
                "value": "Bytes",
                "name": "BYTES"
            },
            {
                "value": "Kilobytes",
                "name": "KILOBYTES"
            },
            {
                "value": "Megabytes",
                "name": "MEGABYTES"
            },
            {
                "value": "Gigabytes",
                "name": "GIGABYTES"
            },
```

```
            {
              "value": "Terabytes",
              "name": "TERABYTES"
            },
            {
              "value": "Bits",
              "name": "BITS"
            },
            {
              "value": "Kilobits",
              "name": "KILOBITS"
             },
            {
              "value": "Megabits",
              "name": "MEGABITS"
            },
            {
              "value": "Gigabits",
              "name": "GIGABITS"
            },
            {
              "value": "Terabits",
              "name": "TERABITS"
            },
            {
              "value": "Percent",
              "name": "PERCENT"
            },
            {
              "value": "Bytes/Second",
              "name": "BYTES_PER_SECOND"
            },
            {
              "value": "Kilobytes/Second",
              "name": "KILOBYTES_PER_SECOND"
            },
            {
              "value": "Megabytes/Second",
              "name": "MEGABYTES_PER_SECOND"

        },
            {
              "value": "Gigabytes/Second",
              "name": "GIGABYTES_PER_SECOND"
            },
            {
              "value": "Terabytes/Second",
              "name": "TERABYTES_PER_SECOND"
```

```
            },
            {
                "value": "Bits/Second",
                "name": "BITS_PER_SECOND"
            },
            {
                "value": "Kilobits/Second",
                "name": "KILOBITS_PER_SECOND"
            },
            {
                "value": "Megabits/Second",
                "name": "MEGABITS_PER_SECOND"
            },
            {
                "value": "Gigabits/Second",
                "name": "GIGABITS_PER_SECOND"
            },
            {
                "value": "Terabits/Second",

"name": "TERABITS_PER_SECOND"
            },
            {
                "value": "Count/Second",
                "name": "COUNT_PER_SECOND"
            }
        ]
    }
},
"com.amazonaws.licensemanager#EntitlementList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Entitlement"
    }
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
```

"com.amazonaws.licensemanager#EntitlementUnit": {

"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "Count",
"name": "COUNT"
},
{
"value": "None",
"name": "NONE"
},
{
"value": "Seconds",
"name": "SECONDS"
},
{
"value": "Microseconds",
"name": "MICROSECONDS"
},
{
"value": "Milliseconds",
"name": "MILLISECONDS"
},
{
"value": "Bytes",
"name": "BYTES"
},
{
"value": "Kilobytes",
"name": "KILOBYTES"

},
{
"value": "Megabytes",
"name": "MEGABYTES"
},
{
"value": "Gigabytes",
"name": "GIGABYTES"
},
{
"value": "Terabytes",
"name": "TERABYTES"
},
{
"value": "Bits",

"name": "BITS"
},
{
"value": "Kilobits",
"name": "KILOBITS"
},
{
"value": "Megabits",
"name": "MEGABITS"
},
{
"value": "Gigabits",
"name": "GIGABITS"
},
{
"value": "Terabits",
"name": "TERABITS"
},
{
"value": "Percent",
"name": "PERCENT"
},
{
"value": "Bytes/Second",
"name": "BYTES_PER_SECOND"
},
{
"value": "Kilobytes/Second",
"name": "KILOBYTES_PER_SECOND"
},
{
"value": "Megabytes/Second",
"name": "MEGABYTES_PER_SECOND"
},
{
"value": "Gigabytes/Second",
"name": "GIGABYTES_PER_SECOND"
},
{
"value": "Terabytes/Second",
"name": "TERABYTES_PER_SECOND"
},
{

"value": "Bits/Second",
"name": "BITS_PER_SECOND"
},
{

```
                "value": "Kilobits/Second",
                "name": "KILOBITS_PER_SECOND"
            },
            {
                "value": "Megabits/Second",
                "name": "MEGABITS_PER_SECOND"
            },
            {
                "value": "Gigabits/Second",
                "name": "GIGABITS_PER_SECOND"
            },
            {
                "value": "Terabits/Second",
                "name": "TERABITS_PER_SECOND"
            },
            {
                "value": "Count/Second",
                "name": "COUNT_PER_SECOND"
            }
        ]
    }
},
"com.amazonaws.licensemanager#EntitlementUsage": {
    "type": "structure",

"members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                "smithy.api#required": {}
            }
        },
        "ConsumedValue": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxCount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
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            "traits": {
              "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
        }
      },
      "com.amazonaws.licensemanager#EntitlementUsageList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
      },
      "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
        },
        "errors": [
          {

        "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
```

"traits": {
"smithy.api#documentation": " Extends the expiration date for license consumption. "
}
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",
"smithy.api#required": {}
}
},
"DryRun": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#documentation": " Checks whether you have the required permissions for the action, without actually making the request. Provides an error response if you do not have the required permissions. "
}
}
}
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
"type": "structure",

"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license consumption expires. "
}
}
}
},
"com.amazonaws.licensemanager#FailedDependencyException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
},
"ErrorCode": {

"target": "com.amazonaws.licensemanager#String"
}
},

"traits": {
"aws.protocols#awsQueryError": {
"code": "FailedDependency",
"httpResponseCode": 424
},
"smithy.api#documentation": " A dependency required to run the API is missing. ",
"smithy.api#error": "client",
"smithy.api#httpError": 424
}
},
"com.amazonaws.licensemanager#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#FilterName",
"traits": {
"smithy.api#documentation": " Name of the filter. Filter names are case-sensitive. "
}
},
"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " Filter values. Filter values are case-sensitive. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter name and value pair that is used to return more specific results from a\n describe operation. Filters can be used to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FilterLimitExceeded",
"httpResponseCode": 400

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            },
            "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
            "smithy.api#error":
"client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#FilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Filter"
        }
    },
    "com.amazonaws.licensemanager#FilterName": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#FilterValue": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#FilterValues": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#FilterValue",
            "traits": {
                "smithy.api#xmlName": "item"
            }
        }
    },
    "com.amazonaws.licensemanager#Filters": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Filter",
            "traits": {
                "smithy.api#xmlName":
"item"
            }
        }
    },
    "com.amazonaws.licensemanager#GetAccessToken": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
        },
        "errors": [
            {
```

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"

}
],
"traits": {
"smithy.api#documentation": " Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access tokens\n are valid for one hour. "
}
},
"com.amazonaws.licensemanager#GetAccessTokenRequest": {
"type": "structure",
"members": {
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token, encoded as a JWT token. ",
"smithy.api#required": {}
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Token properties to validate against those present in the JWT token. "
}

}
}
},
"com.amazonaws.licensemanager#GetAccessTokenResponse": {
"type": "structure",
"members": {
"AccessToken": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Temporary access token. "

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            }
        }
    }
},
"com.amazonaws.licensemanager#GetGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
```

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        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
                "smithy.api#documentation": "<p>Grant details.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",

    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
```

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        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license
configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
```

```
    "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
      "type": "structure",
      "members": {
        "LicenseConfigurationId":
{
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
          }
        },
        "LicenseConfigurationArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
          }
        },
        "Name": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Name of the license configuration.</p>"
          }
        },
        "Description": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation":
"<p>Description of the license configuration.</p>"
          }
        },
        "LicenseCountingType": {
          "target": "com.amazonaws.licensemanager#LicenseCountingType",
          "traits": {
            "smithy.api#documentation": "<p>Dimension for which the licenses are counted.</p>"
          }
        },
        "LicenseRules": {
          "target": "com.amazonaws.licensemanager#StringList",
          "traits": {
            "smithy.api#documentation": "<p>License rules.</p>"
          }
        },
        "LicenseCount": {
          "target": "com.amazonaws.licensemanager#BoxLong",
          "traits": {
            "smithy.api#documentation": "<p>Number of available licenses.</p>"
          }
        },
        "LicenseCountHardLimit": {
```

"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Sets the number of available licenses as a hard limit. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses assigned to resources. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License configuration status. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the
owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList":
{
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "

```
            }
        },
        "AutomatedDiscoveryInformation": {
            "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
            "traits": {
                "smithy.api#documentation": "<p>Automated discovery information.</p>"
            }
        },
        "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
    "type":
 "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets
 information about the specified license type conversion task.</p>"
    }
},
```

"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information on. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted to. "

}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}

```
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
                }
            },
            "StartTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
                }
            },
            "LicenseConversionTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                 "traits": {
                    "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
                }
            },
            "EndTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation":
"<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {
            "ReportGenerator": {
                "target": "com.amazonaws.licensemanager#ReportGenerator",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic
reports about your license configurations.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    }
  },
  "com.amazonaws.licensemanager#GetLicenseResponse": {
    "type": "structure",
    "members": {
        "License": {
            "target":
"com.amazonaws.licensemanager#License",
            "traits": {
                "smithy.api#documentation": "<p>License details.</p>"
            }
        }
    }
  },
  "com.amazonaws.licensemanager#GetLicenseUsage": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
         },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageResponse":
{
        "type": "structure",
        "members": {
            "LicenseUsage": {
                "target": "com.amazonaws.licensemanager#LicenseUsage",
                "traits": {
                    "smithy.api#documentation": "<p>License usage details.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
```

{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets the License Manager settings for the current Region. "
}
},
"com.amazonaws.licensemanager#GetServiceSettingsRequest": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Regional S3 bucket path for storing reports, license trail event data, discovery data,\n and so on. "
}

},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " SNS topic configured to receive notifications from License Manager. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Indicates whether Organizations is integrated with License Manager for\n cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether cross-account discovery is enabled. "
}

```
    },
            "LicenseManagerResourceShareArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
Manager management account \n        provides member accounts with access to this share.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#Grant": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {

                   "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ParentArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Parent ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>License ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "GranteePrincipalArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The grantee principal ARN.</p>",
```

"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"Version": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. ",
"smithy.api#required": {}
}
},
"GrantedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Granted operations. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes a grant. "
}
},
"com.amazonaws.licensemanager#GrantList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Grant"
}

```
},
"com.amazonaws.licensemanager#GrantStatus": {
    "type": "string",

  "traits": {
        "smithy.api#enum": [
            {
                "value": "PENDING_WORKFLOW",
                "name": "PENDING_WORKFLOW"
            },
            {
                "value": "PENDING_ACCEPT",
                "name": "PENDING_ACCEPT"
            },
            {
                "value": "REJECTED",
                "name": "REJECTED"
            },
            {
                "value": "ACTIVE",
                "name": "ACTIVE"
            },
            {
                "value": "FAILED_WORKFLOW",
                "name": "FAILED_WORKFLOW"
            },
            {
                "value": "DELETED",
                "name": "DELETED"
            },
            {
                "value": "PENDING_DELETE",
                "name": "PENDING_DELETE"
             },
            {
                "value": "DISABLED",
                "name": "DISABLED"
            },
            {
                "value": "WORKFLOW_COMPLETED",
                "name": "WORKFLOW_COMPLETED"
            }
        ]
    }
},
"com.amazonaws.licensemanager#GrantedLicense": {
    "type": "structure",
    "members": {
```

"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. "
}

},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " Granted license issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the granted license. "

}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " Granted license status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the granted license is valid, in

ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Granted license beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Granted license metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Creation time of the granted license. "

}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Version of the granted license. "
}
},
"ReceivedMetadata": {
"target": "com.amazonaws.licensemanager#ReceivedMetadata",
"traits": {
"smithy.api#documentation": " Granted license received metadata. "
}
}
},
"traits": {

"smithy.api#documentation": " Describes a license that is granted to a grantee. "
}
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#GrantedLicense"
}
},
"com.amazonaws.licensemanager#ISO8601DateTime":
{
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
}
},
"com.amazonaws.licensemanager#Integer": {
"type": "integer",
"traits": {
"smithy.api#box": {}
}
},
"com.amazonaws.licensemanager#InvalidParameterValueException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidParameterValueProvided",

"httpResponseCode": 400
},
"smithy.api#documentation": " One or more parameter values are not valid. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#InvalidResourceStateException": {
"type": "structure",
"members": {

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            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidResourceState",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n        <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
            "smithy.api#error": "client",
             "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InventoryFilter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the filter.</p>",
                    "smithy.api#required": {}
                }
            },
            "Condition": {
                "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
                "traits": {
                    "smithy.api#documentation": "<p>Condition of the filter.</p>",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Value
 of the filter.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>An inventory filter.</p>"
        }
    },
    "com.amazonaws.licensemanager#InventoryFilterCondition": {
        "type": "string",
        "traits": {
```

"smithy.api#enum": [
{
"value": "EQUALS",
"name": "EQUALS"
},
{
"value": "NOT_EQUALS",
"name": "NOT_EQUALS"
},
{
"value": "BEGINS_WITH",
"name": "BEGINS_WITH"
},
{
"value": "CONTAINS",
"name": "CONTAINS"
}
]
}
},
"com.amazonaws.licensemanager#InventoryFilterList":
{
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#InventoryFilter"
}
},
"com.amazonaws.licensemanager#Issuer": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. ",
"smithy.api#required": {}
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
}
},
"traits": {

"smithy.api#documentation": " Details about the issuer of a license. "
}
},
"com.amazonaws.licensemanager#IssuerDetails": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. "
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer key fingerprint. "
}
}
},
"traits": {
"smithy.api#documentation": " Details associated with the issuer of a license. "
}
},
"com.amazonaws.licensemanager#License": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. "
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " License issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "

}
},

"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " License metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License creation time. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits":
{
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#documentation": " Software license that is managed in License Manager. "
}
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
"type": "structure",
"members": {
"LicenseConfigurationId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Unique ID of the license configuration. "
}
},
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}

},
"Name": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension to use to track the license inventory. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Number of available licenses as a hard limit. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "

}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed. "
}

```
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Status of the license configuration.</p>"
                }
            },
            "OwnerAccountId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Account ID of the license configuration's owner.</p>"
                }
            },
            "ConsumedLicenseSummaryList": {
                "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",

        "traits": {
                    "smithy.api#documentation": "<p>Summaries for licenses consumed by various resources.</p>"
                }
            },
            "ManagedResourceSummaryList": {
                "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>Summaries for managed resources.</p>"
                }
            },
            "ProductInformationList": {
                "target": "com.amazonaws.licensemanager#ProductInformationList",
                "traits": {
                    "smithy.api#documentation": "<p>Product information.</p>"
                }
            },
            "AutomatedDiscoveryInformation": {
                "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
                "traits": {
                    "smithy.api#documentation": "<p>Automated
 discovery information.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A license configuration is an abstraction of a customer license
agreement that can be\n        consumed and enforced by License Manager. Components include specifications for
the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n
Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n        must be associated with a
host), and the number of licenses purchased and used.</p>"
        }
    },
```

"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name
(ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource
consuming licenses. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was associated with the
resource. "
}
},
"AmiAssociationScope":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-
account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an association with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
}

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    },
    "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "AVAILABLE",
                    "name": "AVAILABLE"
                },
                {
                    "value": "DISABLED",
                    "name": "DISABLED"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceStatus": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {

"smithy.api#documentation": "<p>Status of the resource.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
                }
            },
            "AssociationTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time when the license configuration was initially associated with
```

the resource. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}

},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
}
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfiguration"
}
},
"com.amazonaws.licensemanager#LicenseConversionContext": {
"type": "structure",
"members": {
"UsageOperation": {
"target": "com.amazonaws.licensemanager#UsageOperation",
"traits": {
"smithy.api#documentation": " The Usage operation value that corresponds to the license type you are converting your resource from. For more information about which platforms correspond to which usage operation values see Sample data: usage operation by platform\n \n "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTask": {
"type": "structure",
"members": {

"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the license type conversion task. "
}
},
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource associated with the license type\n conversion task. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted to. "
}
},

"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " The status of the conversion task. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was started at. "
}
},
"LicenseConversionTime": {

"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " The time the usage operation value of the resource was changed. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was completed. "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTaskId": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
}
},
"com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
"type":
"string",
"traits": {
"smithy.api#enum": [
{
"value": "IN_PROGRESS",
"name": "IN_PROGRESS"
},
{
"value": "SUCCEEDED",
"name": "SUCCEEDED"
},
{
"value": "FAILED",
"name": "FAILED"
}
]
}
},
"com.amazonaws.licensemanager#LicenseConversionTasks": {

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    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#LicenseConversionTask"
    }
},
"com.amazonaws.licensemanager#LicenseCountingType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "vCPU",
                "name": "VCPU"

            },
            {
                "value": "Instance",
                "name": "INSTANCE"
            },
            {
                "value": "Core",
                "name": "CORE"
            },
            {
                "value": "Socket",
                "name": "SOCKET"
            }
        ]
    }
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "PENDING_DELETE",
                "name": "PENDING_DELETE"
            },
            {
                "value": "DELETED",
                "name": "DELETED"
            }
        ]
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#License"
```

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        }
    },
    "com.amazonaws.licensemanager#LicenseOperationFailure": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type.</p>"
                }
            },
            "ErrorMessage": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Error message.</p>"

        }
            },
            "FailureTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Failure time.</p>"
                }
            },
            "OperationName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the operation.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the
resource.</p>"
                }
            },
            "OperationRequestedBy": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
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"smithy.api#documentation": " The requester is \"License Manager Automated Discovery\". "
}
},
"MetadataList": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Reserved. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the failure of a license operation. "
}
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailure"
}
},
"com.amazonaws.licensemanager#LicenseSpecification": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseSpecification"
}

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    },
    "com.amazonaws.licensemanager#LicenseStatus":
{
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "AVAILABLE",
                    "name": "AVAILABLE"
                },
                {
                    "value": "PENDING_AVAILABLE",
                    "name": "PENDING_AVAILABLE"
                },
                {
                    "value": "DEACTIVATED",
                    "name": "DEACTIVATED"
                },
                {
                    "value": "SUSPENDED",
                    "name": "SUSPENDED"
                },
                {
                    "value": "EXPIRED",
                    "name": "EXPIRED"
                },
                {
                    "value": "PENDING_DELETE",
                    "name": "PENDING_DELETE"
                },
                {

                 "value": "DELETED",
                    "name": "DELETED"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#LicenseUsage": {
        "type": "structure",
        "members": {
            "EntitlementUsages": {
                "target": "com.amazonaws.licensemanager#EntitlementUsageList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlement usages.</p>"
                }
            }
        },
```

"traits": {
"smithy.api#documentation": " Describes the entitlement usage associated with a license. "
}
},
"com.amazonaws.licensemanager#LicenseUsageException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {

"aws.protocols#awsQueryError": {
"code": "LicenseUsageFailure",
"httpResponseCode": 412
},
"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{

"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the resource associations for the specified license configuration. \n Resource associations need not consume licenses from a license configuration. \n For example, an AMI or a stopped instance might not consume a license (depending on \n the license rules). "
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationAssociations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license configuration. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {
"target":
"com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants distributed for the specified license. "
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranteePrincipalARN</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configuration operations that failed. "
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name of the license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "

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            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse": {
        "type": "structure",
        "members": {
          "LicenseOperationFailureList": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
            "traits": {
              "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListLicenseConfigurations":
    {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
```

```
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the license configurations for your account.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
          "LicenseConfigurationArns": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
           },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "Filters": {
            "target": "com.amazonaws.licensemanager#Filters",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n                Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n                Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n
                <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement
is used. \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n
</li>\n            <li>\n                <p>\n                <code>usagelimitExceeded</code> - A Boolean value that indicates
whether the available licenses have been exceeded. \n                Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
            }
          }
        }
      },
```

```
    "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
      "type": "structure",
      "members": {
        "LicenseConfigurations": {
          "target": "com.amazonaws.licensemanager#LicenseConfigurations",
          "traits": {
            "smithy.api#documentation": "<p>Information about the license configurations.</p>"

          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasks": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target":
"com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
      }
    },
```

"com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
"type": "structure",
"members": {
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " \n Filters to scope the results. Valid filters are <code>ResourceArns</code> and <code>Status</code>.\n "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
"type": "structure",
"members": {
"LicenseConversionTasks": {
"target": "com.amazonaws.licensemanager#LicenseConversionTasks",
"traits": {
"smithy.api#documentation": " Information about the license configuration tasks for your account. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the report generators for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest": {
"type":
"structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported:
\n \n \n \n <code>LicenseConfigurationArn</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to
return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
"type": "structure",
"members": {
"ReportGenerators": {
"target": "com.amazonaws.licensemanager#ReportGeneratorList",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic reports about your license
configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
"type": "operation",
"input":
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Describes the
license configurations for the specified resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a resource that has an
associated license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",

                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
        "type": "structure",
        "members": {
            "LicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
                }
            },
```

```
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersions": {
         "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation":
"<p>Lists all versions of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
```

"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum
number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#LicenseList",
"traits": {
"smithy.api#documentation": " License details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenses": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicensesRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicensesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{

"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses for your account. "
}
},
"com.amazonaws.licensemanager#ListLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>Status</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}

```
        }
    },
    "com.amazonaws.licensemanager#ListLicensesResponse": {
        "type": "structure",
        "members": {
            "Licenses": {

  "target": "com.amazonaws.licensemanager#LicenseList",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrants": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },

{
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists grants that are received but not accepted.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
        "type": "structure",

    "members": {
            "GrantArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>ProductSKU</code>\n            </p>\n
        </li>\n            <li>\n                <p>\n                <code>LicenseIssuerName</code>\n            </p>\n
</li>\n            <li>\n                <p>\n                <code>LicenseArn</code>\n            </p>\n            </li>\n
<li>\n                <p>\n
  <code>GrantStatus</code>\n            </p>\n            </li>\n            <li>\n                <p>\n
<code>GranterAccountId</code>\n            </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
        "type": "structure",
        "members": {
            "Grants": {
```

"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Received grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"

},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists received licenses. "

```
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
        "type": "structure",

  "members": {
            "LicenseArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>ProductSKU</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                <code>Status</code>\n                </p>\n            </li>\n
<li>\n                <p>\n                <code>Fingerprint</code>\n                </p>\n            </li>\n            <li>\n
<p>\n                <code>IssuerName</code>\n
            </p>\n            </li>\n            <li>\n                <p>\n                <code>Beneficiary</code>\n                </p>\n
        </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
        "type": "structure",
        "members": {
            "Licenses": {

  "target": "com.amazonaws.licensemanager#GrantedLicenseList",
                "traits": {
                    "smithy.api#documentation": "<p>Received license details.</p>"
                }
            },
```

```
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventory": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"

},
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FailedDependencyException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryRequest": {

        "type": "structure",
        "members": {
```

"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#InventoryFilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>application_name</code> - The name of the application. \n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n \n \n \n <code>license_included</code> - The type of license included. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n Possible values are <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n \n <code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n \n \n \n <code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account). \n \n "
}
}
}
},
"com.amazonaws.licensemanager#ListResourceInventoryResponse": {
"type": "structure",
"members": {
"ResourceInventoryList": {
"target": "com.amazonaws.licensemanager#ResourceInventoryList",
"traits":
{
"smithy.api#documentation": " Information about the resources. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",

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                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the tags for the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required":
 {}
                }
            }
        }
```

```
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the tags.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
            "TokenIds": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
```

"smithy.api#documentation": " Token IDs. "
}
},
"Filters": {
"target":
"com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filter is supported: \n
\n \n \n <code>LicenseArns</code>\n \n \n
"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListTokensResponse":
{
"type": "structure",
"members": {
"Tokens": {
"target": "com.amazonaws.licensemanager#TokenList",
"traits": {
"smithy.api#documentation": " Received token details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying license\n        consumption details by resource
 at a selected point in time. Use this action to audit the\n        current license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
```

"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>resourceArn</code> - The ARN of the license configuration resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceAccount</code> - The ID of the account that owns the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationUsageList": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#Location": {
"type": "string"
},
"com.amazonaws.licensemanager#Long": {
"type": "long",
"traits": {

```
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummary": {
    "type": "structure",
    "members": {
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
            }
        },
        "AssociationCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {
    "type": "integer",
    "traits": {
        "smithy.api#box": {},
        "smithy.api#range": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
```

```
            }
        }
    },
    "com.amazonaws.licensemanager#Message": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#Metadata": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The key name.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes key/value pairs.</p>"
        }

    },
    "com.amazonaws.licensemanager#MetadataList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Metadata"
        }
    },
    "com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>There are no entitlements found for this license, or the entitlement
maximum count is reached.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#OrganizationConfiguration": {
```

"type": "structure",
"members": {
"EnableIntegration": {
"target": "com.amazonaws.licensemanager#Boolean",

"traits": {
"smithy.api#documentation": " Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when

the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n
Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n
Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n
<code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n \n ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information for a license configuration. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
"type": "structure",
"members": {
"ProductInformationFilterName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Filter name. ",
"smithy.api#required": {}
}
},

"ProductInformationFilterValue": {
"target":
"com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " Filter value. "
}
},
"ProductInformationFilterComparator": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Logical operator. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information filters. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ProductInformationFilter"
}
},
"com.amazonaws.licensemanager#ProductInformationList": {
"type": "list",

"member": {
"target": "com.amazonaws.licensemanager#ProductInformation"
}
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
"type": "structure",
"members": {
"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the provisional configuration, in minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"com.amazonaws.licensemanager#RateLimitExceededException": {

"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"

}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "RateLimitExceeded",
"httpResponseCode": 429
},
"smithy.api#documentation": " Too many requests have been submitted. Try again after a brief wait. ",
"smithy.api#error": "client",
"smithy.api#httpError": 429
}
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
"type": "structure",
"members": {
"ReceivedStatus": {
"target": "com.amazonaws.licensemanager#ReceivedStatus",
"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {

"smithy.api#documentation": " Received status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations. "
}
}
},
"traits": {
"smithy.api#documentation": " Metadata associated with received licenses and grants. "
}
},
"com.amazonaws.licensemanager#ReceivedStatus": {
"type": "string",
"traits": {

```
            "smithy.api#enum": [
                {
                    "value": "PENDING_WORKFLOW",
                    "name": "PENDING_WORKFLOW"
                },
                {
                    "value": "PENDING_ACCEPT",
                    "name": "PENDING_ACCEPT"
                },
                 {
                    "value": "REJECTED",
                    "name": "REJECTED"
                },
                {
                    "value": "ACTIVE",
                    "name": "ACTIVE"
                },
                {
                    "value": "FAILED_WORKFLOW",
                    "name": "FAILED_WORKFLOW"
                },
                {
                    "value": "DELETED",
                    "name": "DELETED"
                },
                {
                    "value": "DISABLED",
                    "name": "DISABLED"
                },
                {
                    "value": "WORKFLOW_COMPLETED",
                    "name": "WORKFLOW_COMPLETED"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#RedirectException": {
        "type": "structure",
        "members": {

    "Location": {
                "target": "com.amazonaws.licensemanager#Location",
                "traits": {
                    "smithy.api#httpHeader": "Location"
                }
            },
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
```

```
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 308
        }
    },
    "com.amazonaws.licensemanager#RejectGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#RejectGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#RejectGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest":
{
        "type": "structure",
        "members": {
            "GrantArn": {
```

```
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanager#RejectGrantResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"

    }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#RenewType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "None",
                "name": "NONE"
            },
            {
                "value": "Weekly",
                "name": "WEEKLY"
            },
            {
                "value": "Monthly",
                "name": "MONTHLY"
            }
```

```
            ]
          }
        },
        "com.amazonaws.licensemanager#ReportContext": {
          "type": "structure",
          "members": {

    "licenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                  "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration that this generator reports on.</p>",
                  "smithy.api#required": {}
                }
              }
          },
          "traits": {
            "smithy.api#documentation": "<p>Details of the license configuration that this generator reports on.</p>"
          }
        },
        "com.amazonaws.licensemanager#ReportFrequency": {
          "type": "structure",
          "members": {
            "value": {
              "target": "com.amazonaws.licensemanager#Integer",
              "traits": {
                "smithy.api#documentation": "<p>Number of times within the frequency period that a report is generated.  \n        The only supported value is <code>1</code>.</p>"

              }
              },
              "period": {
              "target": "com.amazonaws.licensemanager#ReportFrequencyType",
              "traits": {
                "smithy.api#documentation": "<p>Time period between each report. The period can be daily, weekly, or monthly.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
          }
        },
        "com.amazonaws.licensemanager#ReportFrequencyType": {
          "type": "string",
          "traits": {
            "smithy.api#enum": [
              {
```

"value": "DAY",
"name": "DAY"
},
{
"value": "WEEK",
"name": "WEEK"
},
{
"value": "MONTH",

"name": "MONTH"
}
]
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the report generator. "
}
},
"ReportType": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports that are generated. "
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " License configuration type for this generator. "
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. "
}
},

"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}
},
"LastRunFailureReason": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Failure message for the last report generation attempt. "
}
},
"LastReportGenerationTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the last report was generated at. "
}
},
"ReportCreatorAccount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Web Services account ID used to create the report generator. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the report was created. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",

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            "traits": {
                "smithy.api#documentation": "<p>Tags associated with the report generator.</p>"
            }
        }
    },

"traits": {
        "smithy.api#documentation": "<p>Describe the details of a report generator.</p>"
    }
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportGenerator"
    }
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#ReportType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "LicenseConfigurationSummaryReport",
                "name": "LICENSE_CONFIGURATION_SUMMARY_REPORT"
            },
            {
                "value": "LicenseConfigurationUsageReport",
                 "name": "LICENSE_CONFIGURATION_USAGE_REPORT"
            }
        ]
    }
},
"com.amazonaws.licensemanager#ReportTypeList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportType"
    }
},
"com.amazonaws.licensemanager#ResourceInventory": {
    "type": "structure",
```

```
        "members": {
          "ResourceId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>ID of the resource.</p>"
            }
          },
          "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
              "smithy.api#documentation": "<p>Type of resource.</p>"
            }
          },
           "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
          },
          "Platform": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Platform of the resource.</p>"
            }
          },
          "PlatformVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
            }
          },
          "ResourceOwningAccountId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation":
"<p>ID of the account that owns the resource.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about a resource.</p>"
        }
      },
      "com.amazonaws.licensemanager#ResourceInventoryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#ResourceInventory"
        }
```

```
    },
    "com.amazonaws.licensemanager#ResourceLimitExceededException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ResourceLimitExceeded",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>Your resource limits have
been exceeded.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#ResourceNotFoundException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidResource.NotFound",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>The resource cannot be found.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#ResourceType": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "EC2_INSTANCE",
                     "name": "EC2_INSTANCE"
                },
                {
                    "value": "EC2_HOST",
                    "name": "EC2_HOST"
                },
```

```
                {
                    "value": "EC2_AMI",
                    "name": "EC2_AMI"
                },
                {
                    "value": "RDS",
                    "name": "RDS"
                },
                {
                    "value": "SYSTEMS_MANAGER_MANAGED_INSTANCE",
                    "name": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#S3Location": {
        "type": "structure",
        "members": {
            "bucket": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the S3 bucket
 reports are published to.</p>"
                }
            },
            "keyPrefix": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Prefix of the S3 bucket reports are published to.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
        }
    },
    "com.amazonaws.licensemanager#ServerInternalException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InternalError",
                "httpResponseCode": 500
```

```
            },
            "smithy.api#documentation":
"<p>The server experienced an internal error. Try again.</p>",
            "smithy.api#error": "server",
            "smithy.api#httpError": 500
        }
    },
    "com.amazonaws.licensemanager#SignedToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 4096
            }
        }
    },
    "com.amazonaws.licensemanager#StatusReasonMessage": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 400
            },
            "smithy.api#pattern": "^[\\s\\S]+$"
        }
    },
    "com.amazonaws.licensemanager#String": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"

      }
    },
    "com.amazonaws.licensemanager#Tag": {
        "type": "structure",
        "members": {
            "Key": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag key.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag value.</p>"
```

```
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#String"
        }
      },
      "com.amazonaws.licensemanager#TagList":
  {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#Tag"
        }
      },
      "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },

    {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
```

```
        }
    },
    "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>One or more tags.</p>",
                    "smithy.api#required":
 {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
            "TokenType": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>"
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
```

```
            },
            "ExpirationTime": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Token expiration time, in ISO8601-UTC format.</p>"
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Data specified by the caller.</p>"
                }
            },
            "RoleArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the roles included in the
token.</p>"
                }
             },
            "Status": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token status. The possible values are
<code>AVAILABLE</code> and <code>DELETED</code>.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes a token.</p>"
        }
    },
    "com.amazonaws.licensemanager#TokenList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#TokenData"
        }
    },
    "com.amazonaws.licensemanager#TokenString": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 4096
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
```

"com.amazonaws.licensemanager#TokenType":
{
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "REFRESH_TOKEN",
"name": "REFRESH_TOKEN"
}
]
}
},
"com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The digital signature method is unsupported. Try your request again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#UntagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UntagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{

"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Removes the specified tags from the specified license configuration. "
}
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",
"traits": {
"smithy.api#documentation": " Keys identifying the tags to remove. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseConfigurationStatus": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
                "traits": {
                    "smithy.api#documentation": "<p>New status of the license configuration.</p>"
                }
            },
            "LicenseRules": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>New license rule. The only rule that you can add after you create a
license\n        configuration is licenseAffinityToHost.</p>"
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>New number of licenses managed by the license
configuration.</p>"
                }
```

```
            },
            "LicenseCountHardLimit": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>New hard limit of the number of available licenses.</p>"
                }

        },
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>New name of the license configuration.</p>"
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>New description of the license configuration.</p>"
                }
            },
            "ProductInformationList": {
                "target": "com.amazonaws.licensemanager#ProductInformationList",
                "traits": {
                    "smithy.api#documentation": "<p>New product information.</p>"
                }
            },
            "DisassociateWhenNotFound": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
```

{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates a report generator. \n After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated. "

}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to update. ",
"smithy.api#required": {}
}
},
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}

```
                }
            },
            "Type": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports to generate. The following report types are supported:</p>\n <ul>\n <li>\n <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p>\n </li>\n <li>\n <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n </li>\n </ul>",
                    "smithy.api#required": {}
                }
            },
            "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
                    "smithy.api#documentation": "<p>The report context.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportFrequency": {
                "target": "com.amazonaws.licensemanager#ReportFrequency",
                "traits": {
                    "smithy.api#documentation": "<p>Frequency by which reports are generated.</p>",
                    "smithy.api#required": {}
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientRequestToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the report generator.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {}
    },
```

"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#InvalidResourceStateException"

},
{
"target": "com.amazonaws.licensemanager#LicenseUsageException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Adds or removes the specified license configurations for the specified Amazon Web Services resource. \n You can update the license specifications of AMIs, instances, and hosts.\n You cannot update the license specifications for launch templates and CloudFormation templates, \n as they send license configurations to the operation that creates the resource. "
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon Web Services resource. ",
"smithy.api#required": {}

```
            }
        },
        "AddLicenseSpecifications": {
            "target": "com.amazonaws.licensemanager#LicenseSpecifications",
            "traits": {
                "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
            }
        },
        "RemoveLicenseSpecifications": {
            "target": "com.amazonaws.licensemanager#LicenseSpecifications",
            "traits": {
                "smithy.api#documentation": "<p>ARNs of the license configurations to remove.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {}
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
    }
```

```
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where
the License Manager information is stored.</p>"
                }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon
 Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Enables integration with Organizations for cross-account
discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Activates cross-account discovery.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#UsageOperation": {
        "type":
 "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            }
        }
    },
    "com.amazonaws.licensemanager#ValidationException": {
```

```
            "type": "structure",
            "members": {
                "Message": {
                    "target": "com.amazonaws.licensemanager#Message"
                }
            },
            "traits": {
                "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
                "smithy.api#error": "client",
                "smithy.api#httpError": 400
            }
        }
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
```

```
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string
```

```
// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

//
Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err
 != nil {
  return err
 }
```

```
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return
 nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
```

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string
```

```
 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
```

```
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
 err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
```

```
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
```

```
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

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```
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package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
```

```
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if
 err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
```

```
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}
```

1.1945 google-uuid 1.4.0

1.1945.1 Available under license :

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1.1946 irqbalance 1.8.0-1ubuntu0.2

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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<!-- CreationDate: Fri Jan 14 19:57:50 2011 -->
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta name="generator" content="groff -Thtml, see www.gnu.org">
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<meta name="Content-Style" content="text/css">
<link rel="stylesheet" type="text/css" href="texi2tr.css" />
<title>GNU Modula-2</title>
</head>

<body>
 <!-- site wide top running header menu -->

 <ul id="overview">
   <li class="home">
     HOME_HREF

   <li class="release">
     12_HREF


```
  <li>
    <a href="news.html" title="News">News</a>
  </li>
  <li>
    <a href="development.html" title="Development">Development</a>
  </li>
  <li>
    <a href="community.html" title="Community">Community</a>
  </li>
</ul>

<div id="header">
  <h1>
    <span style="display:inline-block; vertical-align:middle">
<img
src="200px-Heckert_GNU_white.png" alt="Heckert_GNU_white.png">
    </span>
    <span style="display:inline-block; vertical-align:middle; font-size: 50px">
GNU Modula-2
    </span>
  </h1>

  <!-- homepage tab menu -->

  <div id="tabmenu">
    <ul id="tab">
<li><a href="about.html"><span>About</span></a></li>
<li><a href="download.html"><span>Download</span></a></li>
<li><a href="release.html"><span>Latest Release</span></a></li>
<li class="selected"><a href="license.html"><span>License</span></a></li>
<li><a href="platforms.html"><span>Platforms</span></a></li>
<li><a href="users.html"><span>Users</span></a></li>
    </ul>
  </div>
</div>

<div id="page">
 <div class="plain">
  <h2>The home of the GNU Modula-2 compiler</h2>
  <p>The compiler is held under the GNU Public Licence v3.</p>
  <p>The ISO and PIM libraries are under the GPL v3.1 with GCC runtime extensions.  Copies of the
    licences can be found on the
    <a href="http://www.gnu.org/licenses">GNU</a>
 web site.</p>
 </div>
</div>
</body>
</html>
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1.1949 opencensus 0.24.0

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1.1950 pmezard-godifflib 1.0.1-0.20181226105442-5d4384ee4fb2

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1.1951 pmezard-godifflib 1.0.0

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1.1952 structured-merge-diff 4.4.1

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school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (which makes passes at compilers) written by
James Hacker.

signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications
with the library. If this is what you want to do, use the GNU Library
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CLASSPATH EXCEPTION

Linking this library statically or dynamically with other modules is
making a combined work based on this library. Thus, the terms and
conditions of the GNU General Public License version 2 cover the whole
combination.

As a special exception, the copyright holders of this library give you
permission to link this library with independent modules to produce an
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independent module, the terms and conditions of the license of that
module. An independent module is a module which is not derived from or
based on this library. If you modify this library, you may extend this
exception to your version of the library, but you are not obligated to
do so. If
you do not wish to do so, delete this exception statement
from your version.

1.1958 perl 5.36.0-7+deb12u1

1.1958.1 Available under license :

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```
?RCS: $Id: d_asctime_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_asctime_r asctime_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_time i_systime extern_C
?MAKE: -pick add $@ %<
?S:d_asctime_r:
?S: This variable conditionally defines the HAS_ASCTIME_R symbol,
?S: which indicates to the C program that the asctime_r()
?S: routine is available.
?S:.
?S:asctime_r_proto:
?S: This variable encodes the prototype of asctime_r.
?S: It is zero if d_asctime_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_asctime_r
?S: is defined.
?S:.
?C:HAS_ASCTIME_R:
?C: This symbol, if defined, indicates that the asctime_r routine
?C: is available to asctime
 re-entrantly.
?C:.
?C:ASCTIME_R_PROTO:
?C: This symbol encodes the prototype of asctime_r.
?C: It is zero if d_asctime_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_asctime_r
?C: is defined.
?C:.
```

```
?H:#$d_asctime_r HAS_ASCTIME_R /**/
?H:#define ASCTIME_R_PROTO $asctime_r_proto /**/
?H:.
?T:try hdrs d_asctime_r_proto
: see if asctime_r exists
set asctime_r d_asctime_r
eval $inlibc
case "$d_asctime_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_time time.h $i_systime sys/time.h"
 case "$d_asctime_r_proto:$usethreads" in
 ":define") d_asctime_r_proto=define
  set d_asctime_r_proto asctime_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_asctime_r_proto" in
 define)
 case "$asctime_r_proto" in
 "|0) try='char* asctime_r(const struct tm*, char*);'
 ./protochk "$extern_C $try" $hdrs && asctime_r_proto=B_SB ;;
 esac
 case "$asctime_r_proto" in
 "|0) try='char* asctime_r(const struct tm*, char*, int);'
 ./protochk "$extern_C $try" $hdrs
 && asctime_r_proto=B_SBI ;;
 esac
 case "$asctime_r_proto" in
 "|0) try='int asctime_r(const struct tm*, char*);'
 ./protochk "$extern_C $try" $hdrs && asctime_r_proto=I_SB ;;
 esac
 case "$asctime_r_proto" in
 "|0) try='int asctime_r(const struct tm*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && asctime_r_proto=I_SBI ;;
 esac
 case "$asctime_r_proto" in
 "|0) d_asctime_r=undef
  asctime_r_proto=0
  echo "Disabling asctime_r, cannot determine prototype." >&4 ;;
 * ) case "$asctime_r_proto" in
  REENTRANT_PROTO*) ;;
  *) asctime_r_proto="REENTRANT_PROTO_$asctime_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "asctime_r has no prototype, not using it." >&4 ;;
```

```
  esac
  d_asctime_r=undef
  asctime_r_proto=0
  ;;
 esac
 ;;
*) asctime_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_asctime_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_open3.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:37:12  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  13:58:26  ram
?RCS: patch56: added knowledge of the O_NONBLOCK symbol
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_open3: test +cc cat +cppflags h_fcntl h_sysfile rm Setvar Findhdr Warn
?MAKE: -pick add $@ %<
?X: It would be easy to separate the h_O_stuff from this.
?X: Is there a reason
 to do so? -- HMS
?S:d_open3:
?S: This variable conditionally defines the HAS_OPEN3 manifest constant,
?S: which indicates to the C program that the 3 argument version of
?S: the open(2) function is available.
?S:.
?C:HAS_OPEN3 (OPEN3):
?C: This manifest constant lets the C program know that the three
?C: argument form of open(2) is available.
```

```
?C:.
?H:#$d_open3 HAS_OPEN3  /**/
?H:.
?W:%<:O_RDONLY O_WRONLY O_RDWR O_NDELAY O_APPEND O_SYNC O_CREAT O_TRUNC
?W:%<:O_EXCL O_NONBLOCK
?F:!open3
?LINT:set d_open3
?LINT:change h_fcntl h_sysfile
: Locate the flags for 'open()'
echo " "
$cat >open3.c <<'EOCP'
#include <sys/types.h>
#ifdef I_FCNTL
#include <fcntl.h>
#endif
#ifdef I_SYS_FILE
#include <sys/file.h>
#endif
int main() {
 if(O_RDONLY);
#ifdef O_TRUNC
 exit(0);
#else
 exit(1);
#endif
}
EOCP
: check sys/file.h first to get FREAD on Sun
if $test `./findhdr sys/file.h` && \
  $cc $cppflags "-DI_SYS_FILE" -o open3 open3.c >/dev/null 2>&1 ; then
 h_sysfile=true;
 echo "<sys/file.h> defines the
 O_* constants..." >&4
 if ./open3; then
  echo "and you have the 3 argument form of open()." >&4
  val="$define"
 else
  echo "but not the 3 argument form of open().  Oh, well." >&4
  val="$undef"
 fi
elif $test `./findhdr fcntl.h` && \
  $cc "-DI_FCNTL" -o open3 open3.c >/dev/null 2>&1 ; then
 h_fcntl=true;
 echo "<fcntl.h> defines the O_* constants..." >&4
 if ./open3; then
  echo "and you have the 3 argument form of open()." >&4
  val="$define"
 else
```

```
  echo "but not the 3 argument form of open().  Oh, well." >&4
  val="$undef"
 fi
else
 val="$undef"
 ./warn "I can't find the O_* constant definitions!  You got problems."
fi
set d_open3
eval $setvar
$rm -f open3*
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_open3.U
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```
?RCS: $Id: d_wctomb.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_wctomb.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:20:43  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_wctomb: Inlibc
?MAKE: -pick add $@ %<
?S:d_wctomb:
?S: This variable conditionally defines the HAS_WCTOMB symbol, which
?S: indicates to the C program that the wctomb() routine is available
?S: to convert a wide character to a multibyte.
?S:.
?C:HAS_WCTOMB (WCTOMB):
?C: This
 symbol, if defined, indicates that the wctomb routine is available
?C: to convert a wide character to a multibyte.
?C:.
?H:#$d_wctomb HAS_WCTOMB  /**/
?H:.
?LINT:set d_wctomb
: see if wctomb exists
```

```
set wctomb d_wctomb
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_wctomb.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Oldconfig.U,v 3.0.1.10 1997/02/28 15:06:39 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Oldconfig.U,v $
?RCS: Revision 3.0.1.10  1997/02/28  15:06:39  ram
?RCS: patch61: added support for src.U
?RCS: patch61: new OSNAME define
?RCS: patch61: can now sense new OSes
?RCS:
?RCS: Revision 3.0.1.9  1995/07/25  13:40:51  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.8  1995/05/12  12:04:18  ram
?RCS: patch54: config.sh reload logic now knows about new -K switch
?RCS: patch54: cleaned up and extended osvers for DEC
 OSF/1 (ADO)
?RCS: patch54: added MachTen detection (ADO)
?RCS:
?RCS: Revision 3.0.1.7  1995/02/15  14:13:41  ram
?RCS: patch51: adapted osvers computation for AIX (ADO)
?RCS:
?RCS: Revision 3.0.1.6  1995/01/30  14:27:15  ram
?RCS: patch49: unit Options.U now exports file optdef.sh, not a variable
?RCS: patch49: update code for myuname changed (WED)
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:15:36  ram
?RCS: patch45: added quotes around the INITPROG variable (ADO)
?RCS: patch45: allows variable overriding after config file loading
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  15:57:05  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: merged with the version used for perl5's Configure (ADO)
?RCS:
```

```
?RCS: Revision 3.0.1.3  1994/05/06  14:24:17  ram
?RCS: patch23: added support for osf1 hints
?RCS: patch23: new support for solaris and i386 systems (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:05:02  ram
?RCS: patch16: added post-processing on myuname for Xenix targets
?RCS:
 patch16: message proposing config.sh defaults made consistent
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  15:56:32  ram
?RCS: patch10: force use of config.sh when -d option is used (WAD)
?RCS: patch10: complain about non-existent hint files (WAD)
?RCS: patch10: added Options dependency for fastread variable
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:12  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit tries to remember what we did last time we ran Configure, mostly
?X: for the sake of setting defaults.
?X:
?MAKE:Oldconfig hint myuname osname osvers: Instruct Myread uname \
 Checkcc Mksymlinks run \
 sh awk sed test cat rm lns tr n c contains Loc Options Tr src trnl ln
?MAKE: -pick wipe $@ %<
?S:myuname:
?S: The output of 'uname -a' if available, otherwise the hostname.
?S: The whole thing is then lower-cased and slashes and single quotes are
?S: removed.
?S:.
?S:hint:
?S: Gives the type of hints used for previous answers. May be one of
?S: "default",
 "recommended" or "previous".
?S:.
?S:osname:
?S: This variable contains the operating system name (e.g. sunos,
?S: solaris, hpux, etc.).  It can be useful later on for setting
?S: defaults.  Any spaces are replaced with underscores.  It is set
?S: to a null string if we can't figure it out.
?S:.
?S:osvers:
?S: This variable contains the operating system version (e.g.
?S: 4.1.3, 5.2, etc.).  It is primarily used for helping select
?S: an appropriate hints file, but might be useful elsewhere for
?S: setting defaults.  It is set to '' if we can't figure it out.
?S: We try to be flexible about how much of the version number
?S: to keep, e.g. if 4.1.1, 4.1.2, and 4.1.3 are essentially the
```

```
?S: same for this package, hints files might just be os_4.0 or
?S: os_4.1, etc., not keeping separate files for each little release.
?S:.
?C:OSNAME:
?C: This symbol contains the name of the operating system, as determined
?C: by Configure.  You shouldn't rely on it too much; the specific
?C: feature tests
 from Configure are generally more reliable.
?C:.
?C:OSVERS:
?C: This symbol contains the version of the operating system, as determined
?C: by Configure.  You shouldn't rely on it too much; the specific
?C: feature tests from Configure are generally more reliable.
?C:.
?H:#define OSNAME "$osname"  /**/
?H:#define OSVERS "$osvers"  /**/
?H:.
?F:!config.sh
?T:tmp tmp_n tmp_c tmp_sh file
?T:xxxxfile xxxfile xxfile xfile hintfile newmyuname
?T:tans _ isesix INITPROG DJGPP
?D:osname="
?LINT:change n c sh
?LINT:extern targetarch
?LINT:extern hostarch
?LINT:change hostarch
?LINT:extern is_os2
: Try to determine whether config.sh was made on this system
case "$config_sh" in
")
?X: indentation wrong on purpose--RAM
?X: Leave a white space between first two '(' for ksh. The sub-shell is needed
?X: on some machines to avoid the error message when uname is not found; e.g.
?X: old SUN-OS 3.2 would not execute hostname in (uname -a || hostname). Sigh!
?X: Now not using a subshell but instead $test.
myuname=`$uname
 -a 2>/dev/null`
$test -z "$myuname" && myuname=`hostname 2>/dev/null`
# Downcase everything to avoid ambiguity.
# Remove slashes and single quotes so we can use parts of this in
# directory and file names.
# Remove newlines so myuname is sane to use elsewhere.
# tr '[A-Z]' '[a-z]' would not work in EBCDIC
# because the A-Z/a-z are not consecutive.
myuname=`echo $myuname | $sed -e "s,['/],,g" | \
 ./tr '[A-Z]' '[a-z]' | $tr $trnl ' '`
?X: Save the value we just computed to reset myuname after we get done here.
newmyuname="$myuname"
```

```
dflt=n
case "$knowitall" in
")
 if test -f ../config.sh; then
  if $contains myuname= ../config.sh >/dev/null 2>&1; then
   eval "`grep myuname= ../config.sh`"
  fi
  if test "X$myuname" = "X$newmyuname"; then
   dflt=y
  fi
 fi
 ;;
*) dflt=y;;
esac

@if {test -d ../hints}
: Get old answers from old config file if Configure was run on the
: same system, otherwise use the hints.
hint=default
cd ..
?X: Since we are now at the root of the source
 tree, we must use $src
?X: to access the sources and not $rsrc. See src.U for details...
if test -f config.sh; then
 echo " "
 rp="I see a config.sh file.  Shall I use it to set the defaults?"
 . UU/myread
 case "$ans" in
 n*|N*) echo "OK, I'll ignore it."
  mv config.sh config.sh.old
  myuname="$newmyuname"
  ;;
 *)  echo "Fetching default answers from your old config.sh file..." >&4
  tmp_n="$n"
  tmp_c="$c"
  tmp_sh="$sh"
  . ./config.sh
  cp config.sh UU
  n="$tmp_n"
  c="$tmp_c"
  : Older versions did not always set $sh.  Catch re-use of such
  : an old config.sh.
  case "$sh" in
  ") sh="$tmp_sh" ;;
  esac
  hint=previous
  ;;
 esac
```

```
fi
. ./UU/checkcc
if test ! -f config.sh; then
 $cat <<EOM

First time through, eh?  I have some defaults handy for some systems
that need some extra help getting the Configure answers right:

EOM
 (cd $src/hints; ls -C *.sh) | $sed 's/\.sh/   /g' >&4
 dflt=''
 : Half the following guesses are probably wrong... If you have better
 : tests or hints,
 please send them to <MAINTLOC>
 : The metaconfig authors would also appreciate a copy...
 $test -f /irix && osname=irix
 $test -f /xenix && osname=sco_xenix
 $test -f /dynix && osname=dynix
 $test -f /dnix && osname=dnix
 $test -f /lynx.os && osname=lynxos
 $test -f /unicos && osname=unicos && osvers=`$uname -r`
 $test -f /unicosmk && osname=unicosmk && osvers=`$uname -r`
 $test -f /unicosmk.ar && osname=unicosmk && osvers=`$uname -r`
 $test -f /bin/mips && /bin/mips && osname=mips
 $test -d /usr/apollo/bin && osname=apollo
 $test -f /etc/saf/_sactab && osname=svr4
 $test -d /usr/include/minix && osname=minix && osvers=`$uname -r`
 $test -f /system/gnu_library/bin/ar.pm && osname=vos
 $test -f /sys/utilities/MultiView && osname=amigaos
 if $test -d /MachTen -o -d /MachTen_Folder; then
?X:  MachTen uname -a output looks like
?X:  xxx 4 0.0 Macintosh
?X:  MachTen /sbin/version output looks like
?X:  MachTen 4.0 Mon Aug 28 10:18:00 1995
?X:  MachTen 3.x had the 'version' command in /usr/etc/version.
  osname=machten
  if
 $test -x /sbin/version; then
   osvers=`/sbin/version | $awk '{print $2}' |
   $sed -e 's/[A-Za-z]$//'`
  elif $test -x /usr/etc/version; then
   osvers=`/usr/etc/version | $awk '{print $2}' |
   $sed -e 's/[A-Za-z]$//'`
  else
   osvers="$2.$3"
  fi
 fi
```

```
 $test -f /sys/posix.dll &&
  $test -f /usr/bin/what &&
  set X `/usr/bin/what /sys/posix.dll` &&
  $test "$3" = UWIN &&
  osname=uwin &&
  osvers="$5"

?X: If we have uname, we already computed a suitable uname -a output,
?X: and it lies in $myuname.
 if $test -f $uname; then
  set X $myuname
  shift

  case "$5" in
  fps*) osname=fps ;;
  mips*)
   case "$4" in
   umips) osname=umips ;;
   *) osname=mips ;;
   esac;;
  [23]100) osname=mips ;;
?X: Interactive Unix.
  i386*)
   tmp=`/bin/uname -X 2>/dev/null|awk '/3\.2v[45]/{ print $(NF) }'`
   if $test "$tmp" != "" -a "$3" = "3.2" -a -f '/etc/systemid'; then
    osname='sco'
    osvers=$tmp
   elif $test -f /etc/kconfig; then
    osname=isc
    if
 test "$lns" = "$ln -s"; then
     osvers=4
    elif $contains _SYSV3 /usr/include/stdio.h > /dev/null 2>&1 ; then
     osvers=3
    elif $contains _POSIX_SOURCE /usr/include/stdio.h > /dev/null 2>&1 ; then
     osvers=2
    fi
   fi
   tmp=''
   ;;
?X: MS-DOS djgpp uname -a output looks like:
?X: ms-dos xxx 6 22 pc
?X:  $1 is the "dos flavor" (need not be "ms-dos").
?X:  $2 is the node name
?X:  $3 and $4 are version/subversion
?X:  $5 is always "pc", but that might not be unique to DJGPP.
?X: (e.g. Solaris_x86 has $5 = i86pc, which doesn't actually conflict,
?X: but it's close enough that I can easily imagine other vendors also
```

```
?X: using variants of pc* in $5.)
?X:  The "DJGPP" environment variable is always set when djgpp is active.
  pc*)
   if test -n "$DJGPP"; then
    osname=dos
    osvers=djgpp
   fi
   ;;
  esac

  case "$1" in
  aix) osname=aix
?X: aix 4.1 uname -a output looks like
?X:  AIX  foo  1 4 000123456789
?X: where $4 is the major release number and $3 is the (minor)
 version.
?X: More detail on the version is available with the oslevel command.
?X: in 3.2.x, it output a string (see case statements below).  In 4.1,
?X: it puts out something like  4.1.1.0
   tmp=`( (oslevel) 2>/dev/null || echo "not found") 2>&1`
   case "$tmp" in
   # oslevel can fail with:
   # oslevel: Unable to acquire lock.
   *not\ found) osvers="$4"."$3" ;;
   '<3240'|'<>3240') osvers=3.2.0 ;;
   '=3240'|'>3240'|'<3250'|'<>3250') osvers=3.2.4 ;;
   '=3250'|'>3250') osvers=3.2.5 ;;
   *) osvers=$tmp;;
   esac
   ;;
  bitrig) osname=bitrig
   osvers="$3"
   ;;
  bsd386) osname=bsd386
   osvers=`$uname -r`
   ;;
  cygwin*) osname=cygwin
   osvers="$3"
   ;;
  *dc.osx) osname=dcosx
   osvers="$3"
   ;;
  dnix) osname=dnix
   osvers="$3"
   ;;
  domainos) osname=apollo
   osvers="$3"
   ;;
```

```
  dgux) osname=dgux
   osvers="$3"
   ;;
  dragonfly) osname=dragonfly
   osvers="$3"
   ;;
?X:  uname -a returns
?X:  DYNIX/ptx xxx 4.0 V4.1.2 i386
  dynixptx*) osname=dynixptx
   osvers=`echo
 "$4"|sed 's/^v//'`
   ;;
  freebsd) osname=freebsd
   osvers="$3" ;;
  genix) osname=genix ;;
?X: GNU/Hurd uname -a gives something like:
?X: GNU foo 0.3 GNU-Mach 1.4/Hurd-0.3 i386-AT386 GNU
?X: GNU gnu 0.3 GNUmach-1.2/Hurd-0.3 i386-AT386 GNU
?X: Note the hostname on the second one, which will fool Configure
?X: into using the SysV case!
  gnu) osname=gnu
   osvers="$3" ;;
?X: HP-UX uname -a gives something like
?X: HP-UX foobar B.10.20 A 9000/735 2016483812 two-user license
?X: Preserve the full 10.20 string instead of the previous plain '10'.
?X:  Thanks to Graham Barr.    --AD 6/30/1998
  hp*) osname=hpux
   osvers=`echo "$3" | $sed 's,.*\.\([0-9]*\.[0-9]*\),\1,'`
   ;;
  irix*) osname=irix
   case "$3" in
   4*) osvers=4 ;;
   5*) osvers=5 ;;
   *) osvers="$3" ;;
   esac
   ;;
  linux) osname=linux
   case "$3" in
   *) osvers="$3" ;;
   esac
   $test -f /system/lib/libandroid.so && osname=linux-android
   ;;
  MiNT) osname=mint
   ;;
  minix) osname=minix
   osvers=`$uname -r`
   ;;
  netbsd*)
```

```
osname=netbsd
  osvers="$3"
  ;;
 news-os) osvers="$3"
  case "$3" in
  4*) osname=newsos4 ;;
  *) osname=newsos ;;
  esac
  ;;
 nonstop-ux) osname=nonstopux ;;
 openbsd) osname=openbsd
  osvers="$3"
  ;;
 os2) osname=os2
  osvers="$4"
  ;;
 POSIX-BC | posix-bc ) osname=posix-bc
  osvers="$3"
  ;;
 powerux | power_ux | powermax_os | powermaxos | \
 powerunix | power_unix) osname=powerux
  osvers="$3"
  ;;
 qnx) osname=qnx
  osvers="$4"
  ;;
 solaris) osname=solaris
  case "$3" in
  5*) osvers=`echo $3 | $sed 's/^5/2/g'` ;;
  *) osvers="$3" ;;
  esac
  ;;
 sunos) osname=sunos
  case "$3" in
  5*) osname=solaris
   osvers=`echo $3 | $sed 's/^5/2/g'` ;;
  *) osvers="$3" ;;
  esac
  ;;
 titanos) osname=titanos
  case "$3" in
  1*) osvers=1 ;;
  2*) osvers=2 ;;
  3*) osvers=3 ;;
  4*) osvers=4 ;;
  *) osvers="$3" ;;
  esac
  ;;
```

```
  ultrix) osname=ultrix
   osvers="$3"
   ;;
  osf1|mls+) case "$5" in
    alpha)
?X: DEC OSF/1 myuname
 -a output looks like:  osf1 xxxx t3.2 123.4 alpha
?X: where the version number can be something like [xvt]n.n
     osname=dec_osf
?X: sizer knows the minor minor version: the letter
     osvers=`sizer -v | awk -FUNIX '{print $2}' | awk '{print $1}' |  tr '[A-Z]' '[a-z]' | sed 's/^[xvt]//'`
     case "$osvers" in
     [1-9].[0-9]*) ;;
     *) osvers=`echo "$3" | sed 's/^[xvt]//'` ;;
     esac
     ;;
   hp*) osname=hp_osf1 ;;
   mips) osname=mips_osf1 ;;
?X: hp and mips were unsupported Technology Releases -- ADO, 24/10/94
   esac
   ;;
  # UnixWare 7.1.2 is known as Open UNIX 8
  openunix|unixware) osname=svr5
   osvers="$4"
   ;;
  uts) osname=uts
   osvers="$3"
   ;;
  vos) osvers="$3"
   ;;
  $2) case "$osname" in
   *isc*) ;;
   *freebsd*) ;;
   svr*)
    : svr4.x or possibly later
    case "svr$3" in
    ${osname}*)
     osname=svr$3
     osvers=$4
     ;;
    esac
    case "$osname" in
    svr4.0)
     : Check for ESIX
     if test -f /stand/boot ; then
      eval `grep '^INITPROG=[a-z/0-9]*$'
 /stand/boot`
      if test -n "$INITPROG" -a -f "$INITPROG"; then
```

```
  isesix=`strings -a $INITPROG|grep 'ESIX SYSTEM V/386 Release 4.0'`
      if test -n "$isesix"; then
       osname=esix4
      fi
     fi
    fi
    ;;
   esac
   ;;
  *) if test -f /etc/systemid; then
    osname=sco
    set `echo $3 | $sed 's/\./ /g'` $4
    if $test -f $src/hints/sco_$1_$2_$3.sh; then
     osvers=$1.$2.$3
    elif $test -f $src/hints/sco_$1_$2.sh; then
     osvers=$1.$2
    elif $test -f $src/hints/sco_$1.sh; then
     osvers=$1
    fi
   else
    case "$osname" in
    ") : Still unknown.  Probably a generic Sys V.
     osname="sysv"
     osvers="$3"
     ;;
    esac
   fi
   ;;
  esac
  ;;
 *) case "$osname" in
  ") : Still unknown.  Probably a generic BSD.
   osname="$1"
   osvers="$3"
   ;;
  esac
  ;;
 esac
else
?X: Try to identify sony's NEWS-OS (BSD unix)
  if test -f /vmunix -a -f $src/hints/news_os.sh; then
   (what /vmunix | UU/tr '[A-Z]'
'[a-z]') > UU/kernel.what 2>&1
   if $contains news-os UU/kernel.what >/dev/null 2>&1; then
    osname=news_os
   fi
   $rm -f UU/kernel.what
?X: Maybe it's OS/2 or DOS or something similar
```

```
 elif test -d c:/. -o -n "$is_os2" ; then
  set X $myuname
  osname=os2
  osvers="$5"
 fi
fi

     case "$targetarch" in
     ") ;;
     *)  hostarch=$osname
        case "$targetarch" in
           nto*|*-nto-*)
              # Will load qnx.sh, which should change osname to nto
              osname=qnx
              osvers="
              ;;
           *linux-android*)
              # Catch arm-linux-androideabi, mipsel-linux-android,
              # and i686-linux-android
              osname=linux-android
              osvers="
              ;;
           *linux*)
              # Something like arm-linux-gnueabihf is really just
              # plain linux.
              osname=linux

              osvers="
              ;;
           *solaris*|*sunos*)
              osname=solaris
              # XXX perhaps we should just assume
              # osvers to be 2, or maybe take the value
              # from targetarch. Using $run before the
              # hints are run is somewhat icky.
              set X `$run $uname -a 2>/dev/null`
              shift
              case "$3" in
                 5*) osvers=`echo $3 | $sed 's/^5/2/g'` ;;
                 *)  osvers="$3" ;;
              esac
              ;;
           *)
    osname=`echo $targetarch|sed 's,^[^-]*-,,'`
    osvers="
           ;;
        esac
        ;;
```

```
    esac

: Now look for a hint file osname_osvers, unless one has been
: specified already.
case "$hintfile" in
"|' ')
 file=`echo "${osname}_${osvers}" | $sed -e 's%\.%_%g' -e 's%_$%%'`
 : Also try without trailing minor version
numbers.
 xfile=`echo $file | $sed -e 's%_[^_]*$%%'`
 xxfile=`echo $xfile | $sed -e 's%_[^_]*$%%'`
 xxxfile=`echo $xxfile | $sed -e 's%_[^_]*$%%'`
 xxxxfile=`echo $xxxfile | $sed -e 's%_[^_]*$%%'`
 case "$file" in
 ") dflt=none ;;
 *)  case "$osvers" in
  ") dflt=$file
   ;;
  *)  if $test -f $src/hints/$file.sh ; then
    dflt=$file
   elif $test -f $src/hints/$xfile.sh ; then
    dflt=$xfile
   elif $test -f $src/hints/$xxfile.sh ; then
    dflt=$xxfile
   elif $test -f $src/hints/$xxxfile.sh ; then
    dflt=$xxxfile
   elif $test -f $src/hints/$xxxxfile.sh ; then
    dflt=$xxxxfile
   elif $test -f "$src/hints/${osname}.sh" ; then
    dflt="${osname}"
   else
    dflt=none
   fi
   ;;
  esac
  ;;
 esac
 if $test -f Policy.sh ; then
  case "$dflt" in
  *Policy*) ;;
  none) dflt="Policy" ;;
  *) dflt="Policy $dflt" ;;
  esac
 fi
 ;;
*)
 dflt=`echo $hintfile | $sed 's/\.sh$//'`
 ;;
```

```
 esac

 if $test -f Policy.sh ; then
  $cat <<EOM

There's also
 a Policy hint file available, which should make the
site-specific (policy) questions easier to answer.
EOM

 fi

 $cat <<EOM

You may give one or more space-separated answers, or "none" if appropriate.
If you have a handcrafted Policy.sh file or a Policy.sh file generated by a
previous run of Configure, you may specify it as well as or instead of
OS-specific hints.  If hints are provided for your OS, you should use them:
although Perl can probably be built without hints on many platforms, using
hints often improve performance and may enable features that Configure can't
set up on its own. If there are no hints that match your OS, specify "none";
DO NOT give a wrong version or a wrong OS.

EOM

 rp="Which of these apply, if any?"
 . UU/myread
 tans=$ans
 for file in $tans; do
  if $test X$file = XPolicy -a -f Policy.sh; then
   . Policy.sh
   $cat Policy.sh >> UU/config.sh
  elif $test -f $src/hints/$file.sh; then
   . $src/hints/$file.sh
   $cat $src/hints/$file.sh >> UU/config.sh
  elif
 $test X"$tans" = X -o X"$tans" = Xnone ; then
   : nothing
  else
   : Give one chance to correct a possible typo.
   echo "$file.sh does not exist"
   dflt=$file
   rp="hint to use instead?"
   . UU/myread
   for file in $ans; do
    if $test -f "$src/hints/$file.sh"; then
     . $src/hints/$file.sh
     $cat $src/hints/$file.sh >> UU/config.sh
```

```
    elif $test X$ans = X -o X$ans = Xnone ; then
     : nothing
    else
     echo "$file.sh does not exist -- ignored."
    fi
   done
  fi
 done

 hint=recommended
 : Remember our hint file for later.
 if $test -f "$src/hints/$file.sh" ; then
  hintfile="$file"
 else
  hintfile=''
 fi
fi
cd UU
?X: From here on, we must use $rsrc instead of $src
@else
: Get old answers, if there is a config file out there
hint=default
hintfile=''
if test -f ../config.sh; then
 echo " "
 rp="I see a config.sh file.  Shall I use it to set the defaults?"
 . ./myread
 case "$ans" in
 n*|N*) echo "OK, I'll ignore it.";;
 *)  echo "Fetching default answers from
 your old config.sh file..." >&4
  tmp_n="$n"
  tmp_c="$c"
  . ../config.sh
  cp ../config.sh .
  n="$tmp_n"
  c="$tmp_c"
  hint=previous
  ;;
 esac
fi
@end
?X: remember, indentation is wrong--RAM
;;
*)
 echo " "
 echo "Fetching default answers from $config_sh..." >&4
 tmp_n="$n"
```

```
 tmp_c="$c"
 cd ..
?X: preserve symbolic links, if any
 cp $config_sh config.sh 2>/dev/null
 chmod +w config.sh
 . ./config.sh
 cd UU
 cp ../config.sh .
 n="$tmp_n"
 c="$tmp_c"
 hint=previous
 ;;
esac
. ./optdef.sh

: Restore computed paths
for file in $loclist $trylist; do
 eval $file="\$_$file"
done

@if osname || osvers
cat << EOM

Configure uses the operating system name and version to set some defaults.
The default value is probably right if the name rings a bell. Otherwise,
since spelling matters for me, either accept the default or answer "none"
to leave it blank.

EOM
@end
@if osname
case "$osname" in
 "|' ')
  case "$hintfile" in
  "|' '|none) dflt=none ;;
  *)  dflt=`echo $hintfile | $sed -e 's/\.sh$//'
 -e 's/_.*$//'` ;;
  esac
  ;;
 *) dflt="$osname" ;;
esac
rp="Operating system name?"
. ./myread
case "$ans" in
none)  osname=" ;;
*) osname=`echo "$ans" | $sed -e 's/[  ][ ]*/_/g' | ./tr '[A-Z]' '[a-z]'`;;
esac
@end
```

```
@if osvers
@if osname
echo " "
@end
case "$osvers" in
 "|' ')
  case "$hintfile" in
  "|' '|none) dflt=none ;;
  *) dflt=`echo $hintfile | $sed -e 's/\.sh$//' -e 's/^[^_]*//'`
   dflt=`echo $dflt | $sed -e 's/^_//' -e 's/_/./g'`
   case "$dflt" in
   "|' ') dflt=none ;;
   esac
   ;;
  esac
  ;;
 *) dflt="$osvers" ;;
esac
rp="Operating system version?"
. ./myread
case "$ans" in
none)  osvers=" ;;
*) osvers="$ans" ;;
esac

@end

. ./posthint.sh
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Oldconfig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_mmap mmaptype: Inlibc i_sysmman cat cc ccflags
?MAKE: -pick add $@ %<
?S:d_mmap:
?S: This variable conditionally defines HAS_MMAP if mmap() is
```

```
?S: available to map a file into memory.
?S:.
?S:mmaptype:
?S: This symbol contains the type of pointer returned by mmap()
?S: (and simultaneously the type of the first argument).
?S: It can be 'void *' or 'caddr_t'.
?S:.
?C:HAS_MMAP:
?C: This symbol, if defined, indicates that the mmap system call is
?C: available to map a file into memory.
?C:.
?C:Mmap_t:
?C: This symbol
 holds the return type of the mmap() system call
?C: (and simultaneously the type of the first argument).
?C: Usually set to 'void *' or 'caddr_t'.
?C:.
?H:#$d_mmap HAS_MMAP  /**/
?H:#define Mmap_t $mmaptype /**/
?H:.
?LINT:set d_mmap
: see if mmap exists
set mmap d_mmap
eval $inlibc
: see what shmat returns
: default to something harmless
mmaptype='void *'
case "$i_sysmman$d_mmap" in
"$define$define")
 $cat >mmap.c <<'END'
#include <sys/mman.h>
void *mmap();
END
 if $cc $ccflags -c mmap.c >/dev/null 2>&1; then
  mmaptype='void *'
 else
  mmaptype='caddr_t'
 fi
 echo "and it returns ($mmaptype)." >&4
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_mmap.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_raster.U 1 2006-08-24 12:32:52Z rmanfredi $

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_raster.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_raster rasterlib: cat test Setvar Myread Oldconfig
?MAKE: -pick add $@ %<
?S:d_raster:
?S: Conditionally defines RASTER_TEK if this is a raster tech machine.
?S:.
?S:rasterlib (d_rasterlib):
?S: Set to the needed compile flag if this is a raster tech machine.
?S: It is up to the Makefile to use this variable.
?S:.
?C:RASTER_TEK:
?C: Defined
 if this is a rastertech machine.
?C:.
?H:#$d_raster RASTER_TEK /**/
?H:.
?LINT:set d_raster
: See if this is a raster tech machine.
val="$undef"
rasterlib="
if $test -r /dev/mirage; then
 $cat <<'EOM'

You seem to have a mirage device... this is normally associated with a raster
technologies graphics workstation. If this is right, you may want to use raster
tech in this program.

EOM
 dflt=y
 case "$d_raster" in
 "$undef") dflt=n;;
 esac
 rp='Use raster tech?'
 . ./myread
 case "$ans" in
 y*) val="$define";;
```

```
 esac
fi
set d_raster
eval $setvar

case "$d_raster" in
"$define") rasterlib='-lphigs';;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_raster.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: fpu.U,v 3.0 1993/08/18 12:08:10 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: fpu.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:10  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?LINT: empty
?X:?MAKE:fpu: test cat cc Myread
?X:?MAKE: -pick add $@ %<
?X:?S:fpu (fpunit):
?X:?S: Set to be the compile flag for the local floating point unit.
?X:?S:.
?X:?C:FPU (FPUNIT):
?X:?C: String containing the flags for the local floating point unit.
?X:?C:.
?X:?H:#define FPU "$fpu" /**/
?X:?H:.
?X:: see what floating point compile flags should be used.
?X:fpu="
?X:if
 $test -r /dev/fpa; then
?X: $cat>fpa.c << GOOP
?X: main(){return(1);}
?X:GOOP
?X: $cc -ffpa -o fpa fpa.c
?X: fpa > fpa.out 2>&1
```

```
?X: if $test ! -s fpa.out; then
?X:  dflt='y'
?X:  $cat <<'EOM'
?X:
?X:You seem to have a sun fpa...  I can compile the code to use the fpa but it will
?X:mean that the code can ONLY run on a machine with a fpa...
?X:
?X:EOM
?X:  rp="Should I compile for fpa?"
?X:  . ./myread
?X:  if $test $ans = "n"; then
?X:   fpu=''
?X:  else
?X:   fpu='-ffpa'
?X:  fi
?X: else
?X:  $cat <<'EOM'
?X:
?X:You have the fpa device but I can't seem to use it.  Maybe you should talk to
?X:your sysadmin about this.  For now, I am not going to compile it in.
?X:
?X:EOM
?X: fi
?X:fi
?X:if $test "$fpu" = ''; then
?X: if $test -r /usr/etc/mc68881version; then
?X:  dflt='y'
?X:  $cat <<'EOM'
?X:
?X:There also seems to be the pieces for a 68881.  If I compile this in, it will
?X:work on almost all Sun 3's except for a few Sun-3/50s without a 68881...
?X:
?X:EOM
?X:  rp="Should
 I compile for a 68881?"
?X:  . ./myread
?X:  if $test $ans = "y"; then
?X:   fpu='-f68881'
?X:  fi
?X: fi
?X:fi
?X:
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/nullified/fpu.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_rdchk.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_rdchk.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_rdchk: Inlibc
?MAKE: -pick add $@ %<
?S:d_rdchk:
?S: This variable conditionally defines the HAS_RDCHK symbol, which
?S: indicates to the C program that the rdchk() routine is available
?S: to find out if there is input pending on an IO channel.
?S:.
?C:HAS_RDCHK (RDCHK):
?C: This symbol, if defined, indicates that the rdchk routine
 is available
?C: to find out if there is input pending on an IO channel.  Generally
?C: the routine is used only if FIONREAD and O_NDELAY aren't available.
?C:.
?H:#$d_rdchk HAS_RDCHK  /**/
?H:.
?LINT:set d_rdchk
: see if rdchk exists
set rdchk d_rdchk
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_rdchk.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:usequadmath: Setvar cat uselongdouble
?MAKE: -pick add $@ %<
?S:usequadmath:
?S: This variable conditionally defines the USE_QUADMATH symbol,
?S: and indicates that the quadmath library __float128 long doubles
?S: should be used when available.
```

```
?S:.
?C:USE_QUADMATH:
?C: This symbol, if defined, indicates that the quadmath library should
?C: be used when available.
?C:.
?H:?%<:#ifndef USE_QUADMATH
?H:?%<:#$usequadmath USE_QUADMATH  /**/
?H:?%<:#endif
?H:.
: Check if quadmath is requested
case "$usequadmath" in
"$define"|true|[yY]*) usequadmath="$define" ;;
*)                    usequadmath="$undef"  ;;
esac

: Fail if both uselongdouble and usequadmath are requested
case "$usequadmath:$uselongdouble" in
define:define)
 $cat <<EOM >&4

*** You requested the use of
 the quadmath library and use
*** of long doubles.
***
*** Please select one or the other.
EOM
 exit 1
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/usequadmath.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_htonl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_htonl.U,v $
?RCS: Revision 3.0.1.2  1994/08/29  16:09:25  ram
?RCS: patch32: now properly handles htonl() and friends when macros (ADO)
```

```
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:45:00  ram
?RCS: patch23: now also check for htonl() macro (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:22  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_htonl: Inlibc Setvar i_niin i_sysin i_arpainet cat rm contains \
 cppstdin cppflags cppminus
?MAKE: -pick
 add $@ %<
?S:d_htonl:
?S: This variable conditionally defines HAS_HTONL if htonl() and its
?S: friends are available to do network order byte swapping.
?S:.
?C:HAS_HTONL (HTONL):
?C: This symbol, if defined, indicates that the htonl() routine (and
?C: friends htons() ntohl() ntohs()) are available to do network
?C: order byte swapping.
?C:.
?C:HAS_HTONS (HTONS):
?C: This symbol, if defined, indicates that the htons() routine (and
?C: friends htonl() ntohl() ntohs()) are available to do network
?C: order byte swapping.
?C:.
?C:HAS_NTOHL (NTOHL):
?C: This symbol, if defined, indicates that the ntohl() routine (and
?C: friends htonl() htons() ntohs()) are available to do network
?C: order byte swapping.
?C:.
?C:HAS_NTOHS (NTOHS):
?C: This symbol, if defined, indicates that the ntohs() routine (and
?C: friends htonl() htons() ntohl()) are available to do network
?C: order byte swapping.
?C:.
?H:#$d_htonl HAS_HTONL  /**/
?H:#$d_htonl HAS_HTONS  /**/
?H:#$d_htonl HAS_NTOHL  /**/
?H:#$d_htonl
 HAS_NTOHS  /**/
?H:.
?F:!htonl.c
?LINT:set d_htonl
: see if htonl --and friends-- exists
val=''
set htonl val
eval $inlibc
```

```
: Maybe they are macros.
case "$val" in
$undef)
 $cat >htonl.c <<EOM
#include <stdio.h>
#include <sys/types.h>
#$i_niin I_NETINET_IN
#$i_sysin I_SYS_IN
#$i_arpainet I_ARPA_INET
#ifdef I_NETINET_IN
#include <netinet/in.h>
#endif
#ifdef I_SYS_IN
#include <sys/in.h>
#endif
#ifdef I_ARPA_INET
#include <arpa/inet.h>
#endif
#ifdef htonl
printf("Defined as a macro.");
#endif
EOM
 $cppstdin $cppflags $cppminus < htonl.c >htonl.E 2>/dev/null
 if $contains 'Defined as a macro' htonl.E >/dev/null 2>&1; then
  val="$define"
  echo "But it seems to be defined as a macro." >&4
 fi
 $rm -f htonl.?
 ;;
esac
set d_htonl
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_htonl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_poll.U,v $
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_langinfo: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_langinfo:
```

```
?S: This variable conditionally defines the I_LANGINFO symbol,
?S: and indicates whether a C program should include <langinfo.h>.
?S:.
?C:I_LANGINFO:
?C: This symbol, if defined, indicates that <langinfo.h> exists and
?C: should be included.
?C:.
?H:#$i_langinfo I_LANGINFO  /**/
?H:.
?LINT:set i_langinfo
: see if this is a langinfo.h system
set langinfo.h i_langinfo
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_langinfo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_rename.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_rename.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_rename: Inlibc
?MAKE: -pick add $@ %<
?S:d_rename:
?S: This variable conditionally defines the HAS_RENAME symbol, which
?S: indicates to the C program that the rename() routine is available
?S: to rename files.
?S:.
?C:HAS_RENAME (RENAME):
?C: This symbol, if defined, indicates that the rename routine is available
?C: to rename files.
  Otherwise you should do the unlink(), link(), unlink()
?C: trick.
?C:.
?H:#$d_rename HAS_RENAME /**/
?H:.
```

```
?LINT:set d_rename
: see if rename exists
set rename d_rename
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_rename.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_wait4.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_wait4.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_wait4: Inlibc
?MAKE: -pick add $@ %<
?S:d_wait4:
?S: This variable conditionally defines the HAS_WAIT4 symbol, which
?S: indicates the wait4() routine is available.
?S:.
?C:HAS_WAIT4 (WAIT4):
?C: This symbol, if defined, indicates that wait4() exists.
?C:.
?H:#$d_wait4 HAS_WAIT4 /**/
?H:.
?LINT:set d_wait4
: see if there is a wait4
set
 wait4 d_wait4
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_wait4.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strccmp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strccmp.U,v $
?RCS: Revision 3.0.1.2  1994/05/06  14:54:34  ram
?RCS: patch23: fixed a typo (WED)
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:04:39  ram
?RCS: patch10: created (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strccmp: Inlibc
?MAKE: -pick add $@ %<
?S:d_strccmp:
?S: This variable conditionally defines the HAS_STRCASECMP symbol, which
?S: indicates to the C program
 that the strcasecmp() routine is available
?S: for case-insensitive string compares.
?S:.
?C:HAS_STRCASECMP:
?C: This symbol, if defined, indicates that the strcasecmp() routine is
?C: available for case-insensitive string compares.
?C:.
?H:#$d_strccmp HAS_STRCASECMP /**/
?H:.
?LINT:set d_strccmp
: see if strcasecmp exists
set strcasecmp d_strccmp
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strccmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: dlsrc.U,v$
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
?RCS: $Log: dlext.U,v $
?RCS:
?X:  hpux support thanks to Jeff Okamoto <okamoto@hpcc101.corp.hp.com>
?X:
?X:  To create a shared library, you must compile ALL source files in the
?X:  library with +z (or possibly +Z if the library is whopping huge),
?X:  then link the library with -b.  Example:
?X:   cc -c +z module_a.c
?X:   cc -c +z module_b.c
?X:   ld -b module_a.o module_b.o -o module.sl
?X:
?MAKE:dlext: \
 Getfile Myread cat usedl so
?MAKE: -pick add $@ %<
?Y:BOTTOM
?S:dlext:
?S: This variable contains the extension that is to be used for the
?S: dynamically loaded modules that perl generates.
?S:.
: Check what extension to use for shared libs
case "$usedl" in
$define|y|true)
 $cat <<
 EOM

On a few systems, the dynamically loaded modules that perl generates and uses
will need a different extension than shared libs. The default will probably
be appropriate.

EOM
 case "$dlext" in
 ") dflt="$so" ;;
 *) dflt="$dlext" ;;
 esac
 rp='What is the extension of dynamically loaded modules'
 . ./myread
 dlext="$ans"
 ;;
*)
 dlext="none"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/dlext.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_libutil.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_libutil: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_libutil:
?S: This variable conditionally defines the I_LIBUTIL symbol, and indicates
?S: whether a C program should include <libutil.h>.
?S:.
?C:I_LIBUTIL:
?C: This symbol, if defined, indicates that <libutil.h> exists and
?C: should be included.
?C:.
?H:#$i_libutil I_LIBUTIL  /**/
?H:.
?LINT:set i_libutil
: see if this is a libutil.h system
set libutil.h i_libutil
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_libutil.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getnbyad.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getnbyaddr: Inlibc
?MAKE: -pick add $@ %<
?S:d_getnbyaddr:
?S: This variable conditionally defines the HAS_GETNETBYADDR symbol, which
?S: indicates to the C program that the getnetbyaddr() routine is available
?S: to look up networks by their IP addresses.
?S:.
?C:HAS_GETNETBYADDR:
?C: This symbol, if defined, indicates that the getnetbyaddr() routine is
?C: available to look up networks by their IP addresses.
```

```
?C:.
?H:#$d_getnbyaddr HAS_GETNETBYADDR  /**/
?H:.
?LINT:set d_getnbyaddr
: see if getnetbyaddr exists
set getnetbyaddr d_getnbyaddr
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_getnbyad.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_crypt_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_crypt_r crypt_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_crypt extern_C
?MAKE: -pick add $@ %<
?S:d_crypt_r:
?S: This variable conditionally defines the HAS_CRYPT_R symbol,
?S: which indicates to the C program that the crypt_r()
?S: routine is available.
?S:.
?S:crypt_r_proto:
?S: This variable encodes the prototype of crypt_r.
?S: It is zero if d_crypt_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_crypt_r
?S: is defined.
?S:.
?C:HAS_CRYPT_R:
?C: This symbol, if defined, indicates that the crypt_r routine
?C: is available to crypt re-entrantly.
?C:.
?C:CRYPT_R_PROTO:
?C: This
 symbol encodes the prototype of crypt_r.
?C: It is zero if d_crypt_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_crypt_r
?C: is defined.
?C:.
?H:#$d_crypt_r HAS_CRYPT_R /**/
?H:#define CRYPT_R_PROTO $crypt_r_proto /**/
```

```
?H:.
?T:try hdrs d_crypt_r_proto
: see if crypt_r exists
set crypt_r d_crypt_r
eval $inlibc
case "$d_crypt_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_crypt crypt.h"
 case "$d_crypt_r_proto:$usethreads" in
 ":define") d_crypt_r_proto=define
  set d_crypt_r_proto crypt_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_crypt_r_proto" in
 define)
 case "$crypt_r_proto" in
 "|0) try='char* crypt_r(const char*, const char*, struct crypt_data*);'
 ./protochk "$extern_C $try" $hdrs && crypt_r_proto=B_CCS ;;
 esac
 case "$crypt_r_proto" in
 "|0) try='char* crypt_r(const char*, const char*, CRYPTD*);'
 ./protochk "$extern_C $try" $hdrs && crypt_r_proto=B_CCD ;;
 esac
 case "$crypt_r_proto" in
 "|0) d_crypt_r=undef
  crypt_r_proto=0
  echo
 "Disabling crypt_r, cannot determine prototype." >&4 ;;
 * ) case "$crypt_r_proto" in
  REENTRANT_PROTO*) ;;
  *) crypt_r_proto="REENTRANT_PROTO_$crypt_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "crypt_r has no prototype, not using it." >&4 ;;
  esac
  d_crypt_r=undef
  crypt_r_proto=0
  ;;
 esac
 ;;
*) crypt_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_crypt_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2021, H.Merijn Brand & Tony Cook
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:st_dev_size st_dev_sign: cat echo i_stdlib Setvar Compile run rm_try
?MAKE: -pick add $@ %<
?S:st_dev_sign:
?S: This variable contains the signedness of struct stat's st_dev.
?S: 1 for unsigned, -1 for signed.
?S:.
?S:st_dev_size:
?S: This variable contains the size of struct stat's st_dev in bytes.
?S:.
?C:ST_DEV_SIZE:
?C: This variable contains the size of struct stat's st_dev in bytes.
?C:.
?C:ST_DEV_SIGN:
?C: This symbol holds the signedness of struct stat's st_dev.
?C: 1 for unsigned, -1 for signed.
?C:.
?H:#define ST_DEV_SIGN
 $st_dev_sign /* st_dev sign */
?H:#define ST_DEV_SIZE $st_dev_size /* st_dev size */
?H:.
?F:!try
: Check the size of st_dev
$echo " "
$echo "Checking the size of st_dev..." >&4
$cat > try.c <<EOCP
#include <sys/stat.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() {
   struct stat st;
   printf("%d\n", (int)sizeof(st.st_dev));
   exit(0);
```

```
}
EOCP
set try
if eval $compile_ok; then
 val=`$run ./try`
 case "$val" in
 ") st_dev_size=4
  $echo "(I can't execute the test program--guessing $st_dev_size.)" >&4
  ;;
 *) st_dev_size=$val
  $echo "Your st_dev is $st_dev_size bytes long."
  ;;
 esac
else
 st_dev_size=4
 $echo "(I can't compile the test program--guessing $st_dev_size.)" >&4
fi
$rm_try

: Check if st_dev is signed
$echo " "
$echo "Checking the sign of st_dev..." >&4
$cat > try.c <<EOCP
#include <sys/stat.h>
#include <stdio.h>
int main() {
 struct stat foo;
       foo.st_dev = -1;
 if (foo.st_dev < 0)
  printf("-1\n");
 else
  printf("1\n");
}
EOCP
set
 try
if eval $compile; then
 val=`$run ./try`
 case "$val" in
 ") st_dev_sign=1
  $echo "(I can't execute the test program--guessing unsigned.)" >&4
  ;;
 *) st_dev_sign=$val
  case "$st_dev_sign" in
   1) $echo "Your st_dev is unsigned." ;;
  -1) $echo "Your st_dev is signed."   ;;
  esac
  ;;
```

```
 esac
else
 st_dev_sign=1
 $echo "(I can't compile the test program--guessing unsigned.)" >&4
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/st_dev_def.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: otherlibdirs.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999-2000, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: otherlibdirs.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?RCS: Revision 1.1  1999/07/08 18:20:26  doughera
?RCS: Initial revision
?RCS:
?RCS:
?MAKE:otherlibdirs d_perl_otherlibdirs: Myread cat sitelib sitearch \
 vendorarch vendorlib Setvar
?MAKE: -pick add $@ %<
?Y:TOP
?S:otherlibdirs:
?S: This variable contains a colon-separated set of paths for the perl
?S: binary to search for additional library files
 or modules.
?S: These directories will be tacked to the end of @INC.
?S: Perl will automatically search below each path for version-
?S: and architecture-specific directories.  See inc_version_list
?S: for more details.
?S: A value of ' ' means 'none' and is used to preserve this value
?S: for the next run through Configure.
?S:.
?S:d_perl_otherlibdirs:
?S: This variable conditionally defines PERL_OTHERLIBDIRS, which
?S: contains a colon-separated set of paths for the perl binary to
```

```
?S: include in @INC.  See also otherlibdirs.
?S:.
?C:PERL_OTHERLIBDIRS:
?C: This variable contains a colon-separated set of paths for the perl
?C: binary to search for additional library files or modules.
?C: These directories will be tacked to the end of @INC.
?C: Perl will automatically search below each path for version-
?C: and architecture-specific directories.  See PERL_INC_VERSION_LIST
?C: for more details.
?C:.
?H:#$d_perl_otherlibdirs PERL_OTHERLIBDIRS "$otherlibdirs"  /**/
?H:.
?LINT: set d_perl_otherlibdirs
:
 Final catch-all directories to search
$cat <<EOM

Lastly, you can have perl look in other directories for extensions and
modules in addition to those already specified.
These directories will be searched after
 $sitearch
 $sitelib
EOM
test X"$vendorlib" != "X" && echo ' ' $vendorlib
test X"$vendorarch" != "X" && echo ' ' $vendorarch
echo ' '
case "$otherlibdirs" in
"|' ') dflt='none' ;;
*) dflt="$otherlibdirs" ;;
esac
$cat <<EOM
Enter a colon-separated set of extra paths to include in perl's @INC
search path, or enter 'none' for no extra paths.

EOM

rp='Colon-separated list of additional directories for perl to search?'
. ./myread
case "$ans" in
' '|''|none) otherlibdirs=' ' ;;
*) otherlibdirs="$ans" ;;
esac
case "$otherlibdirs" in
' ') val=$undef ;;
*) val=$define ;;
esac
set d_perl_otherlibdirs
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/otherlibdirs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Finish.U,v $
?RCS: Revision 3.0.1.6  1995/02/15  14:09:30  ram
?RCS: patch51: now clearer about how to edit config.sh at the prompt (WED)
?RCS:
?RCS: Revision 3.0.1.5  1994/10/29  15:53:14  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.4  1994/05/06  14:19:37  ram
?RCS: patch23: added blank lines around 'End of Configure'
?RCS:
?RCS: Revision 3.0.1.3  1993/10/16  13:46:09  ram
?RCS: patch12: replaced Config_h by Magic_h in the dependency line
?RCS:
?RCS:
 Revision 3.0.1.2  1993/09/13  15:45:26  ram
?RCS: patch10: fixed shell evaluation w/o shell escape while in silent mode
?RCS:
?RCS: Revision 3.0.1.1  1993/08/30  08:55:59  ram
?RCS: patch8: prevents myread from blocking on empty answers, exceptionally
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit is the very last one in the Configure script.  It runs all the
?X: SH files, which among other things produce config.h and (usually) Makefile.
?X: It offers to do a make depend if the Makefile contains that target.
?X:
?MAKE:Finish: Chk_MANI Extract Myread Oldsym Magic_h cat rm contains \
 test package make
?MAKE: -pick add $@ %<
?F:!config.sh
```

```
?T:pwd
: Finish up by extracting the .SH files
case "$alldone" in
exit)
?X: They supplied the -E switch
 echo "Stopping at your request, leaving temporary files around."
 exit 0
 ;;
cont)
 ;;
")
 dflt="
 nostick=true
 $cat <<EOM

If you'd like to make any changes to the config.sh
 file before I begin
to configure things, do it as a shell escape now (e.g. !vi config.sh).

EOM
 rp="Press return or use a shell escape to edit config.sh:"
 . UU/myread
 nostick="
 case "$ans" in
 ") ;;
 *) : in case they cannot read
  sh 1>&4 -c "$ans";;
 esac
 ;;
esac

: if this fails, just run all the .SH files by hand
. ./config.sh

?X:
?X: Turn silent mode off from now on (we want a verbose file extraction).
?X: This means we have to explicitly test for '$silent' from now on to
?X: strip off any verbose messages.
?X:
echo " "
exec 1>&4
pwd=`pwd`
. ./UU/extract
cd "$pwd"

if $contains '^depend:' [Mm]akefile >/dev/null 2>&1; then
 dflt=y
 case "$silent" in
```

```
 true) ;;
 *)
  $cat <<EOM

Now you need to generate make dependencies by running "$make depend".
You might prefer to run it in background: "$make depend > makedepend.out &"
It can take a while, so you might not want to run it right now.

EOM
  ;;
 esac
 rp="Run $make depend now?"
 . UU/myread
 case "$ans" in
 y*)
  $make depend
 && echo "Now you must run '$make'."
  ;;
 *)
  echo "You must run '$make depend' then '$make'."
  ;;
 esac
elif test -f [Mm]akefile; then
 echo " "
 echo "Now you must run a $make."
else
 echo "Configure done."
fi

if $test -f Policy.sh; then
   $cat <<EOM

If you compile $package on a different machine or from a different object
directory, copy the Policy.sh file from this object directory to the
new one before you run Configure -- this will help you with most of
the policy defaults.

EOM
fi
if $test -f UU/config.msg; then
   echo "Hmm.  I also noted the following information while running:"
   echo " "
   $cat UU/config.msg >&4
fi
?X:
?X: kit*isdone files are left over by shell archives built using the makedist
?X: script which comes from dist, while ark*isdone files are left over by
?X: the cshar archive maker.
```

```
?X:
$rm -f kit*isdone ark*isdone
$rm -rf UU

: End of Configure
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Finish.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysfile.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysfile.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:11:36  ram
?RCS: patch56: removed <> characters from comment, per metalint suggestion
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:01:23  ram
?RCS: patch6: added default for i_sysfile
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_sysfile: h_sysfile Inhdr Setvar
?MAKE: -pick add $@ %<
?S:i_sysfile:
?S: This variable conditionally defines
 the I_SYS_FILE symbol, and indicates
?S: whether a C program should include <sys/file.h> to get R_OK and friends.
?S:.
?C:I_SYS_FILE (I_SYSFILE):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/file.h> to get definition of R_OK and friends.
?C:.
?H:#$i_sysfile I_SYS_FILE  /**/
?H:.
?T:val
?D:i_sysfile="
?LINT:change h_sysfile
?LINT:set i_sysfile
```

```
: see if this is a sys/file.h system
val=''
set sys/file.h val
eval $inhdr

: do we need to include sys/file.h ?
case "$val" in
"$define")
 echo " "
 if $h_sysfile; then
  val="$define"
  echo "We'll be including <sys/file.h>." >&4
 else
  val="$undef"
  echo "We won't be including <sys/file.h>." >&4
 fi
 ;;
*)
 h_sysfile=false
 ;;
esac
set i_sysfile
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sysfile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_lrint: Inlibc
?MAKE: -pick add $@ %<
?S:d_lrint:
?S: This variable conditionally defines the HAS_LRINT symbol, which
?S: indicates to the C program that the lrint() routine is available
?S: to return the integral value closest to a double (according
?S: to the current rounding mode).
?S:.
?C:HAS_LRINT:
?C: This symbol, if defined, indicates that the lrint routine is
?C: available to return the integral value closest to a double
?C: (according to the current rounding mode).
?C:.
?H:#$d_lrint HAS_LRINT  /**/
?H:.
?LINT:set d_lrint
```

```
: see if lrint exists
set lrint d_lrint
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_lrint.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_stdlib.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_stdlib.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_stdlib: Inhdr
?MAKE: -pick add $@ %<
?S:i_stdlib:
?S: This variable conditionally defines the I_STDLIB symbol, which
?S: indicates to the C program that <stdlib.h> exists and should
?S: be included.
?S:.
?C:I_STDLIB:
?C: This symbol, if defined, indicates that <stdlib.h> exists and should
?C: be included.
?C:.
?H:#$i_stdlib I_STDLIB  /**/
?H:.
?LINT:set
 i_stdlib
: see if stdlib is available
set stdlib.h i_stdlib
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_stdlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Tye McQueen <tye@metronet.com>
?RCS:
?RCS: $Log: d_stdstdio.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:46:32  ram
?RCS: patch61: merged with perl5's unit
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  14:06:54  ram
?RCS: patch56: typo fix on ?C: line for FILE_bufsiz
?RCS: patch56: fixed unbalanced parenthesis (ADO)
?RCS: patch56: check whether FILE_cnt and FILE_ptr can be assigned to (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1995/05/12  12:12:11  ram
?RCS: patch54: complete rewrite by Tye McQueen
 to fit modern systems
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_stdstdio d_stdiobase stdio_ptr stdio_cnt stdio_base \
 stdio_bufsiz d_stdio_cnt_lval d_stdio_ptr_lval stdio_filbuf: cat \
 +cc +ccflags contains +ldflags +libs rm_try \
 Setvar Findhdr Oldconfig
?MAKE: -pick add $@ %<
?S:d_stdstdio:
?S: This variable conditionally defines USE_STDIO_PTR if this system
?S: has a FILE structure declaring usable _ptr and _cnt fields (or
?S: equivalent) in stdio.h.
?S:.
?S:stdio_ptr:
?S: This variable defines how, given a FILE pointer, fp, to access the
?S: _ptr field (or equivalent) of stdio.h's FILE structure.  This will
?S: be used to define the macro FILE_ptr(fp).
?S:.
?S:d_stdio_ptr_lval:
?S: This variable conditionally defines STDIO_PTR_LVALUE if the
?S: FILE_ptr macro can be used as an lvalue.
?S:.
?S:stdio_cnt:
?S: This variable defines how, given a FILE pointer, fp, to access the
```

```
?S: _cnt field (or equivalent) of
 stdio.h's FILE structure.  This will
?S: be used to define the macro FILE_cnt(fp).
?S:.
?S:d_stdio_cnt_lval:
?S: This variable conditionally defines STDIO_CNT_LVALUE if the
?S: FILE_cnt macro can be used as an lvalue.
?S:.
?S:stdio_filbuf:
?S: This variable defines how, given a FILE pointer, fp, to tell
?S: stdio to refill it's internal buffers (?).  This will
?S: be used to define the macro FILE_filbuf(fp).
?S:.
?S:d_stdiobase:
?S: This variable conditionally defines USE_STDIO_BASE if this system
?S: has a FILE structure declaring a usable _base field (or equivalent)
?S: in stdio.h.
?S:.
?S:stdio_base:
?S: This variable defines how, given a FILE pointer, fp, to access the
?S: _base field (or equivalent) of stdio.h's FILE structure.  This will
?S: be used to define the macro FILE_base(fp).
?S:.
?S:stdio_bufsiz:
?S: This variable defines how, given a FILE pointer, fp, to determine
?S: the number of bytes store in the I/O buffer pointer to by the
?S: _base field (or equivalent) of stdio.h's
 FILE structure.  This will
?S: be used to define the macro FILE_bufsiz(fp).
?S:.
?C:USE_STDIO_PTR ~ d_stdstdio (USE_STD_STDIO STDSTDIO):
?C: This symbol is defined if the _ptr and _cnt fields (or similar)
?C: of the stdio FILE structure can be used to access the stdio buffer
?C: for a file handle.  If this is defined, then the FILE_ptr(fp)
?C: and FILE_cnt(fp) macros will also be defined and should be used
?C: to access these fields.
?C:.
?C:FILE_ptr:
?C: This macro is used to access the _ptr field (or equivalent) of the
?C: FILE structure pointed to by its argument. This macro will always be
?C: defined if USE_STDIO_PTR is defined.
?C:.
?C:STDIO_PTR_LVALUE:
?C: This symbol is defined if the FILE_ptr macro can be used as an
?C: lvalue.
?C:.
?C:FILE_cnt:
?C: This macro is used to access the _cnt field (or equivalent) of the
```

```
?C: FILE structure pointed to by its argument. This macro will always be
?C: defined if USE_STDIO_PTR is defined.
?C:.
?C:STDIO_CNT_LVALUE:
?C: This symbol is defined
 if the FILE_cnt macro can be used as an
?C: lvalue.
?C:.
?C:FILE_filbuf:
?C: This macro is used to access the internal stdio _filbuf function
?C: (or equivalent), if STDIO_CNT_LVALUE and STDIO_PTR_LVALUE
?C: are defined.  It is typically either _filbuf or __filbuf.
?C: This macro will only be defined if both STDIO_CNT_LVALUE and
?C: STDIO_PTR_LVALUE are defined.
?C:.
?H:?d_stdstdio:#$d_stdstdio USE_STDIO_PTR  /**/
?H:?d_stdstdio:#ifdef USE_STDIO_PTR
?H:#define FILE_ptr(fp) $stdio_ptr
?H:#$d_stdio_ptr_lval STDIO_PTR_LVALUE   /**/
?H:#define FILE_cnt(fp) $stdio_cnt
?H:#$d_stdio_cnt_lval STDIO_CNT_LVALUE   /**/
?H:?d_stdstdio:#if defined(STDIO_PTR_LVALUE) && defined(STDIO_CNT_LVALUE)
?H:#define FILE_filbuf(fp) $stdio_filbuf   /**/
?H:?d_stdstdio:#endif
?H:?d_stdstdio:#endif
?H:.
?W:d_stdstdio:FILE_ptr FILE_cnt FILE_filbuf
?C:USE_STDIO_BASE ~ d_stdiobase:
?C: This symbol is defined if the _base field (or similar) of the
?C: stdio FILE structure can be used to access the stdio buffer
 for
?C: a file handle.  If this is defined, then the FILE_base(fp) macro
?C: will also be defined and should be used to access this field.
?C: Also, the FILE_bufsiz(fp) macro will be defined and should be used
?C: to determine the number of bytes in the buffer.  USE_STDIO_BASE
?C: will never be defined unless USE_STDIO_PTR is.
?C:.
?C:FILE_base:
?C: This macro is used to access the _base field (or equivalent) of the
?C: FILE structure pointed to by its argument. This macro will always be
?C: defined if USE_STDIO_BASE is defined.
?C:.
?C:FILE_bufsiz:
?C: This macro is used to determine the number of bytes in the I/O
?C: buffer pointed to by _base field (or equivalent) of the FILE
?C: structure pointed to its argument. This macro will always be defined
?C: if USE_STDIO_BASE is defined.
?C:.
```

```
?H:?d_stdiobase:#$d_stdiobase USE_STDIO_BASE  /**/
?H:?d_stdiobase:#ifdef USE_STDIO_BASE
?H:#define FILE_base(fp) $stdio_base
?H:#define FILE_bufsiz(fp) $stdio_bufsiz
?H:?d_stdiobase:#endif
?H:.
?W:d_stdiobase:FILE_base
 FILE_bufsiz
?LINT:set d_stdstdio d_stdiobase
?T:ptr_lval cnt_lval filbuf xxx
?F:!try
: see if _ptr and _cnt from stdio act std
echo " "
if $contains '_IO_fpos_t' `./findhdr stdio.h` >/dev/null 2>&1 ; then
 echo "(Looks like you have stdio.h from Linux.)"
 case "$stdio_ptr" in
 ") stdio_ptr='((fp)->_IO_read_ptr)'
  ptr_lval=$define
  ;;
 *) ptr_lval=$d_stdio_ptr_lval;;
 esac
 case "$stdio_cnt" in
 ") stdio_cnt='((fp)->_IO_read_end - (fp)->_IO_read_ptr)'
  cnt_lval=$undef
  ;;
 *) cnt_lval=$d_stdio_cnt_lval;;
 esac
 case "$stdio_base" in
 ") stdio_base='((fp)->_IO_read_base)';;
 esac
 case "$stdio_bufsiz" in
 ") stdio_bufsiz='((fp)->_IO_read_end - (fp)->_IO_read_base)';;
 esac
else
 case "$stdio_ptr" in
 ") stdio_ptr='((fp)->_ptr)'
  ptr_lval=$define
  ;;
 *) ptr_lval=$d_stdio_ptr_lval;;
 esac
 case "$stdio_cnt" in
 ") stdio_cnt='((fp)->_cnt)'
  cnt_lval=$define
  ;;
 *) cnt_lval=$d_stdio_cnt_lval;;
 esac
 case "$stdio_base" in
 ") stdio_base='((fp)->_base)';;
```

```
 esac
 case
 "$stdio_bufsiz" in
 ") stdio_bufsiz='((fp)->_cnt + (fp)->_ptr - (fp)->_base)';;
 esac
fi
: test whether _ptr and _cnt really work
echo "Checking how std your stdio is..." >&4
$cat >try.c <<EOP
#include <stdio.h>
#define FILE_ptr(fp) $stdio_ptr
#define FILE_cnt(fp) $stdio_cnt
int main() {
 FILE *fp = fopen("try.c", "r");
 char c = getc(fp);
 if (
  18 <= FILE_cnt(fp) &&
  strncmp(FILE_ptr(fp), "include <stdio.h>\n", 18) == 0
 )
  exit(0);
 exit(1);
}
EOP
val="$undef"
if $cc $ccflags $ldflags -o try try.c $libs >/dev/null 2>&1; then
 if ./try; then
  echo "Your stdio acts pretty std."
  val="$define"
 else
  echo "Your stdio isn't very std."
 fi
else
 echo "Your stdio doesn't appear very std."
fi
$rm_try
set d_stdstdio
eval $setvar

@if STDIO_PTR_LVALUE || d_stdio_ptr_lval
: Can _ptr be used as an lvalue?
?X: Only makes sense if we have a known stdio implementation.
case "$d_stdstdio$ptr_lval" in
$define$define) val=$define ;;
*) val=$undef ;;
esac
set d_stdio_ptr_lval
eval
```

```
 $setvar

@end
@if STDIO_CNT_LVALUE || d_stdio_cnt_lval
: Can _cnt be used as an lvalue?
?X: Only makes sense if we have a known stdio implementation.
case "$d_stdstdio$cnt_lval" in
$define$define) val=$define ;;
*) val=$undef ;;
esac
set d_stdio_cnt_lval
eval $setvar

@end
@if FILE_filbuf
: How to access the stdio _filbuf or __filbuf function.
: If this fails, check how the getc macro in stdio.h works.
case "${d_stdio_ptr_lval}${d_stdio_cnt_lval}" in
${define}${define})
 : Try hint value, if any, then _filbuf, __filbuf, _fill, then punt.
 : _fill is for OS/2.
 xxx='notok'
 for filbuf in $stdio_filbuf '_filbuf(fp)' '__filbuf(fp) ' '_fill(fp)' ; do
  $cat >try.c <<EOP
#include <stdio.h>
#define FILE_ptr(fp) $stdio_ptr
#define FILE_cnt(fp) $stdio_cnt
#define FILE_filbuf(fp) $filbuf
int main() {
 FILE *fp = fopen("try.c", "r");
 int c;
 c = getc(fp);
 c = FILE_filbuf(fp);  /* Just looking for linker errors.*/
 exit(0);
}
EOP
  if $cc $ccflags $ldflags -o try try.c $libs >/dev/null 2>&1 &&
 ./try; then
   echo "Your stdio appears to use $filbuf"
   stdio_filbuf="$filbuf"
   xxx='ok'
   break
  else
   echo "Hmm.  $filbuf doesn't seem to work."
  fi
  $rm_try
 done
 case "$xxx" in
```

```
 notok) echo "I can't figure out how to access _filbuf"
   echo "I'll just have to work around it."
   d_stdio_ptr_lval="$undef"
   d_stdio_cnt_lval="$undef"
   ;;
 esac
 ;;
esac
@end
@if d_stdiobase || USE_STDIO_BASE || FILE_base || FILE_bufsiz
: see if _base is also standard
val="$undef"
case "$d_stdstdio" in
$define)
 $cat >try.c <<EOP
#include <stdio.h>
#define FILE_base(fp) $stdio_base
#define FILE_bufsiz(fp) $stdio_bufsiz
int main() {
 FILE *fp = fopen("try.c", "r");
 char c = getc(fp);
 if (
  19 <= FILE_bufsiz(fp) &&
  strncmp(FILE_base(fp), "#include <stdio.h>\n", 19) == 0
 )
  exit(0);
 exit(1);
}
EOP
 if $cc $ccflags $ldflags -o try try.c $libs > /dev/null 2>&1; then
  if ./try; then
   echo "And its _base field acts std."
   val="$define"
  else
   echo "But its _base field isn't std."
  fi
 else
  echo
 "However, it seems to be lacking the _base field."
 fi
 $rm_try
 ;;
esac
set d_stdiobase
eval $setvar

@end
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_stdstdio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_mkdtemp: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkdtemp:
?S: This variable conditionally defines the HAS_MKDTEMP symbol, which
?S: indicates to the C program that the mkdtemp() routine is available
?S: to exclusively create a uniquely named temporary directory.
?S:.
?C:HAS_MKDTEMP :
?C: This symbol, if defined, indicates that the mkdtemp routine is
?C: available to exclusively create a uniquely named temporary directory.
?C:.
?H:#$d_mkdtemp HAS_MKDTEMP  /**/
?H:.
?LINT:set d_mkdtemp
: see if mkdtemp exists
set mkdtemp d_mkdtemp
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_mkdtemp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_readlink.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_readlink.U,v $
```

```
?RCS: Revision 3.0.1.1  1994/08/29  16:11:52  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_readlink: Inlibc
?MAKE: -pick add $@ %<
?S:d_readlink:
?S: This variable conditionally defines the HAS_READLINK symbol, which
?S: indicates to the C program that the readlink() routine is available
?S: to read the value of a symbolic link.
?S:.
?C:HAS_READLINK :
?C: This
 symbol, if defined, indicates that the readlink routine is
?C: available to read the value of a symbolic link.
?C:.
?H:#$d_readlink HAS_READLINK  /**/
?H:.
?LINT:set d_readlink
: see if readlink exists
set readlink d_readlink
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_readlink.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ctermid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_ctermid.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_ctermid: Inlibc
?MAKE: -pick add $@ %<
?S:d_ctermid:
?S: This variable conditionally defines CTERMID if ctermid() is
?S: available to generate filename for terminal.
?S:.
?C:HAS_CTERMID (CTERMID):
```

```
?C: This symbol, if defined, indicates that the ctermid routine is
?C: available to generate filename for terminal.
?C:.
?H:#$d_ctermid
 HAS_CTERMID  /**/
?H:.
?LINT:set d_ctermid
: see if ctermid exists
set ctermid d_ctermid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_ctermid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Extras.U,v$
?RCS:
?RCS: Copyright (c) 2001, Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:extras: Myread Oldconfig Setvar rm
?MAKE: -pick add $@ %<
?Y:TOP
?S:extras:
?S: This variable holds a list of extra modules to install.
?S:.
: See if we want extra modules installed
echo " "
case "$extras" in
") dflt='n';;
*) dflt='y';;
esac
cat <<EOM
Perl can be built with extra modules or bundles of modules which
will be fetched from the CPAN and installed alongside Perl.

Notice that you will need access to the CPAN; either via the Internet,
or a local copy, for example a CD-ROM or a local CPAN mirror.  (You will
be asked later to configure the CPAN.pm module which will in turn do
the installation of the rest of the extra modules or bundles.)

Notice also that if the modules require
 any external software such as
libraries and headers (the libz library and the zlib.h header for the
Compress::Zlib module, for example) you MUST have any such software
```

```
already installed, this configuration process will NOT install such
things for you.

If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp='Install any extra modules (y or n)?'
. ./myread
case "$ans" in
y|Y)
 cat <<EOM

Please list any extra modules or bundles to be installed from CPAN,
with spaces between the names.  The names can be in any format the
'install' command of CPAN.pm will understand.  (Answer 'none',
without the quotes, to install no extra modules or bundles.)
EOM
 rp='Extras?'
 dflt="$extras"
 . ./myread
 extras="$ans"
esac
case "$extras" in
"|'none')
 val=''
 $rm -f ../extras.lst
 ;;
*) echo "(Saving the list of extras for later...)"
 echo "$extras" > ../extras.lst
 val='"$extras"'
 ;;
esac
set extras
eval $setvar
echo " "
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/Extras.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_select.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_select.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_select: Inlibc
?MAKE: -pick add $@ %<
?S:d_select:
?S: This variable conditionally defines HAS_SELECT if select() is
?S: available to select active file descriptors. A <sys/time.h>
?S: inclusion may be necessary for the timeout field.
?S:.
?C:HAS_SELECT:
?C: This symbol, if defined, indicates that the select routine is
?C: available
 to select active file descriptors. If the timeout field
?C: is used, <sys/time.h> may need to be included.
?C:.
?H:#$d_select HAS_SELECT /**/
?H:.
?LINT:set d_select
: see if select exists
set select d_select
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_select.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: archname.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:24:32  ram
?RCS: patch61: changed the way the archname is mangled from uname
?RCS:
?RCS: Revision 3.0.1.2  1995/05/12  12:05:24  ram
?RCS: patch54: protect against spaces in "uname -m" output (ADO)
?RCS:
```

```
?RCS: Revision 3.0.1.1  1995/02/15  14:14:21  ram
?RCS: patch51: created
?RCS:
?MAKE:archname myarchname: sed Loc Myread Oldconfig osname test rm
?MAKE: -pick add $@ %<
?S:archname:
?S: This variable is a short name to characterize the current
?S: architecture.
  It is used mainly to construct the default archlib.
?S:.
?S:myarchname:
?S: This variable holds the architecture name computed by Configure in
?S: a previous run. It is not intended to be perused by any user and
?S: should never be set in a hint file.
?S:.
?C:ARCHNAME:
?C: This symbol holds a string representing the architecture name.
?C: It may be used to construct an architecture-dependant pathname
?C: where library files may be held under a private library, for
?C: instance.
?C:.
?H:#define ARCHNAME "$archname"  /**/
?H:.
?T:xxx tarch
: determine the architecture name
echo " "
?X: We always recompute archname in case osname changes. However, we need
?X: to be careful since, as ADO rightfully pointed out, some systems pick
?X: silly architecture names (0001307135000-aix on AIX or 9000/715-ux under
?X: HP-UX). Therefore, we allow hint files to superseed our guess and ask
?X: the user for confirmation.
if xxx=`./loc arch blurfl $pth`; $test -f "$xxx"; then
 tarch=`arch`"-$osname"
elif
 xxx=`./loc uname blurfl $pth`; $test -f "$xxx" ; then
 if uname -m > tmparch 2>&1 ; then
  tarch=`$sed -e 's/ *$//' -e 's/ /_/g' \
   -e 's/$/"'-$osname/" tmparch`
 else
  tarch="$osname"
 fi
 $rm -f tmparch
else
 tarch="$osname"
fi
case "$myarchname" in
"|"$tarch") ;;
*)
```

```
 echo "(Your architecture name used to be $myarchname.)"
 archname=''
 ;;
esac
case "$archname" in
'') dflt="$tarch";;
*) dflt="$archname";;
esac
rp='What is your architecture name'
. ./myread
archname="$ans"
myarchname="$tarch"
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/archname.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_dirent.U,v 3.0.1.4 1994/10/29 16:20:01 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: i_dirent.U,v $
?RCS: Revision 3.0.1.4  1994/10/29  16:20:01  ram
?RCS: patch36: failed scanning for 'd_namlen' with missing <dirent.h> (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:01:25  ram
?RCS: patch30: added direntrytype for hints, merely for NeXT (ADO)
?RCS: patch30: now checks for both struct dirent and direct (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:22:37  ram
?RCS: patch27: new variable direntrytype for proper type setting (ADO)
?RCS:
?RCS:
 Revision 3.0.1.1  1994/01/24  14:11:15  ram
?RCS: patch16: added new Direntry_t pseudo-type for directory entries
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit looks whether there is a dirent system or not
```

```
?X:
?MAKE:i_dirent d_dirnamlen direntrytype: test contains Setvar \
 Myread Findhdr cppstdin cppflags cppminus rm_try
?MAKE: -pick add $@ %<
?S:i_dirent:
?S: This variable conditionally defines I_DIRENT, which indicates
?S: to the C program that it should include <dirent.h>.
?S:.
?S:d_dirnamlen:
?S: This variable conditionally defines DIRNAMLEN, which indicates
?S: to the C program that the length of directory entry names is
?S: provided by a d_namelen field.
?S:.
?S:direntrytype:
?S: This symbol is set to 'struct direct' or 'struct dirent' depending on
?S: whether dirent is available or not. You should use this pseudo type to
?S: portably declare your directory entries.
?S:.
?C:I_DIRENT:
?C: This symbol,
 if defined, indicates to the C program that it should
?C: include <dirent.h>. Using this symbol also triggers the definition
?C: of the Direntry_t define which ends up being 'struct dirent' or
?C: 'struct direct' depending on the availability of <dirent.h>.
?C:.
?C:DIRNAMLEN:
?C: This symbol, if defined, indicates to the C program that the length
?C: of directory entry names is provided by a d_namlen field.  Otherwise
?C: you need to do strlen() on the d_name field.
?C:.
?C:Direntry_t:
?C: This symbol is set to 'struct direct' or 'struct dirent' depending on
?C: whether dirent is available or not. You should use this pseudo type to
?C: portably declare your directory entries.
?C:.
?H:#$i_dirent I_DIRENT  /**/
?H:#$d_dirnamlen DIRNAMLEN /**/
?H:?%<:@if I_DIRENT && Direntry_t
?H:?%<:#define Direntry_t $direntrytype
?H:?%<:@end
?H:.
?T:xinc guess1 guess2
?LINT:set i_dirent d_dirnamlen
: see if this is a dirent system
echo " "
if xinc=`./findhdr dirent.h`; $test "$xinc"; then
 val="$define"
 echo
```

```
 "<dirent.h> found." >&4
else
 val="$undef"
 if xinc=`./findhdr sys/dir.h`; $test "$xinc"; then
  echo "<sys/dir.h> found." >&4
  echo " "
 else
  xinc=`./findhdr sys/ndir.h`
 fi
 echo "<dirent.h> NOT found." >&4
fi
set i_dirent
eval $setvar

?X: Use struct dirent or struct direct?   If we're using dirent.h,
?X: it's probably struct dirent, but apparently not always.
?X: Assume $xinc still contains the name of the header file we're using.
@if direntrytype || Direntry_t
: Look for type of directory structure.
echo " "
$cppstdin $cppflags $cppminus < "$xinc" > try.c

case "$direntrytype" in
"|' ')
 case "$i_dirent" in
 $define) guess1='struct dirent' ;;
 *) guess1='struct direct'  ;;
 esac
 ;;
*) guess1="$direntrytype"
 ;;
esac

case "$guess1" in
'struct dirent') guess2='struct direct' ;;
*) guess2='struct dirent' ;;
esac

if $contains "$guess1" try.c >/dev/null 2>&1; then
 direntrytype="$guess1"
 echo "Your directory entries are $direntrytype." >&4
elif $contains "$guess2"
 try.c >/dev/null 2>&1; then
 direntrytype="$guess2"
 echo "Your directory entries seem to be $direntrytype." >&4
else
 echo "I don't recognize your system's directory entries." >&4
 rp="What type is used for directory entries on this system?"
```

```
 dflt="$guess1"
 . ./myread
 direntrytype="$ans"
fi
$rm_try

@end
@if d_dirnamlen || DIRNAMLEN
: see if the directory entry stores field length
echo " "
$cppstdin $cppflags $cppminus < "$xinc" > try.c
if $contains 'd_namlen' try.c >/dev/null 2>&1; then
 echo "Good, your directory entry keeps length information in d_namlen." >&4
 val="$define"
else
 echo "Your directory entry does not know about the d_namlen field." >&4
 val="$undef"
fi
set d_dirnamlen
eval $setvar
$rm_try

@end
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_dirent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getnetbyname_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getnetbyname_r getnetbyname_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getnetbyname_r:
?S: This variable conditionally defines the HAS_GETNETBYNAME_R symbol,
?S: which indicates to the C program that the getnetbyname_r()
?S: routine is available.
?S:.
?S:getnetbyname_r_proto:
?S: This variable encodes the prototype of getnetbyname_r.
?S: It is zero if d_getnetbyname_r is undef, and one of the
```

```
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getnetbyname_r
?S: is defined.
?S:.
?C:HAS_GETNETBYNAME_R:
?C: This symbol, if defined, indicates that
 the getnetbyname_r routine
?C: is available to getnetbyname re-entrantly.
?C:.
?C:GETNETBYNAME_R_PROTO:
?C: This symbol encodes the prototype of getnetbyname_r.
?C: It is zero if d_getnetbyname_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getnetbyname_r
?C: is defined.
?C:.
?H:#$d_getnetbyname_r HAS_GETNETBYNAME_R /**/
?H:#define GETNETBYNAME_R_PROTO $getnetbyname_r_proto /**/
?H:.
?T:try hdrs d_getnetbyname_r_proto
: see if getnetbyname_r exists
set getnetbyname_r d_getnetbyname_r
eval $inlibc
case "$d_getnetbyname_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getnetbyname_r_proto:$usethreads" in
 ":define") d_getnetbyname_r_proto=define
  set d_getnetbyname_r_proto getnetbyname_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getnetbyname_r_proto" in
 define)
 case "$getnetbyname_r_proto" in
 "|0) try='int getnetbyname_r(const char*, struct netent*, char*, size_t, struct netent**, int*);'
 ./protochk "$extern_C
 $try" $hdrs && getnetbyname_r_proto=I_CSBWRE ;;
 esac
 case "$getnetbyname_r_proto" in
 "|0) try='int getnetbyname_r(const char*, struct netent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getnetbyname_r_proto=I_CSBI ;;
 esac
 case "$getnetbyname_r_proto" in
 "|0) try='struct netent* getnetbyname_r(const char*, struct netent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getnetbyname_r_proto=S_CSBI ;;
 esac
 case "$getnetbyname_r_proto" in
 "|0) try='int getnetbyname_r(const char*, struct netent*, struct netent_data*);'
 ./protochk "$extern_C $try" $hdrs && getnetbyname_r_proto=I_CSD ;;
```

```
 esac
 case "$getnetbyname_r_proto" in
 "|0) d_getnetbyname_r=undef
  getnetbyname_r_proto=0
  echo "Disabling getnetbyname_r, cannot determine prototype." >&4 ;;
 * ) case "$getnetbyname_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getnetbyname_r_proto="REENTRANT_PROTO_$getnetbyname_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo
 "getnetbyname_r has no prototype, not using it." >&4 ;;
  esac
  d_getnetbyname_r=undef
  getnetbyname_r_proto=0
  ;;
 esac
 ;;
*) getnetbyname_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getnetbyname_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fork.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_fork.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:38  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_fork: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_fork:
?S: This variable conditionally defines the HAS_FORK symbol, which
?S: indicates to the C program that the fork() routine is available.
?S:.
?C:HAS_FORK :
?C: This symbol, if defined, indicates that the fork routine is
?C: available.
?C:.
?H:#$d_fork
 HAS_FORK  /**/
?H:.
?LINT:set d_fork
: see if fork exists
set fork d_fork
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_fork.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: package.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:27:21  ram
?RCS: patch36: beware of non-ascii character sets when translating case
?RCS:
?RCS: Revision 3.0.1.2  1993/11/10  17:37:02  ram
?RCS: patch14: skip definition of spackage if not otherwise used
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:11:10  ram
?RCS: patch10: added spackage, suitable for starting sentences
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:28  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:package spackage:
 Nothing
?MAKE: -pick wipe $@ %<
?S:package:
```

```
?S: This variable contains the name of the package being constructed.
?S: It is primarily intended for the use of later Configure units.
?S:.
?S:spackage:
?S: This variable contains the name of the package being constructed,
?S: with the first letter uppercased, i.e. suitable for starting
?S: sentences.
?S:.
?C:PACKAGE:
?C: This variable contains the name of the package being built.
?C:.
?H:#define PACKAGE "$package"
?H:.
?T:first last
: set package name
package='<PACKAGENAME>'
@if spackage
first=`echo $package | sed -e 's/^\(.\).*/\1/'`
last=`echo $package | sed -e 's/^.\(.*\)/\1/'`
?X:
?X: So early in the Configure script, we don't have ./tr set up and can't
?X: include Tr in our dependency or that would create a cycle. Therefore,
?X: we have to somehow duplicate the work done in Tr. That's life.
?X:
case "`echo AbyZ | tr '[:lower:]' '[:upper:]' 2>/dev/null`" in
ABYZ) spackage=`echo $first | tr '[:lower:]' '[:upper:]'`$last;;
*) spackage=`echo
 $first | tr '[a-z]' '[A-Z]'`$last;;
esac
@end
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/package.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Signal.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:20:01  ram
```

```
?RCS: patch61: created
?RCS:
?X:
?X: This unit produces three files:
?X:
?X: 1- A signal.c file, which, when compiled and run, produces an output like:
?X:
?X:   HUP 1
?X:   INT 2
?X:   QUIT 3
?X:   etc...
?X:
?X: 2- A signal.awk script to parse the output of signal.c, fill
?X: in gaps (up to NSIG) and move duplicates to the end.
?X:
?X: 3- A signal_cmd script to compile signal.c and run it
?X: through sort -n -k 2 | uniq | awk -f signal.awk.
?X:
 (we try also sort -n +1 since some old hosts don't grok sort -k)
?X: (This is called signal_cmd to avoid OS/2 confusion with
?X: signal.cmd vs. signal.
?X: The signal_cmd script also falls back on checking signals one at a
?X: time in case the signal.c program fails.  On at least one version of
?X: Linux 2.1.x, the header file #define'd SIGRTMAX to a symbol that
?X: is not defined by the compiler/linker. :-(.  Further, on that same
?X: version of Linux, the user had a defective C-shell that gave an
?X: incorrect list for kill -l, so the fall-back didn't work.
?X:
?X: This unit is then used by sig_name.U.
?X:
?MAKE:Signal: test tr rm awk cat grep startsh eunicefix sed sort uniq \
 Findhdr cppstdin +cppflags cppminus Compile trnl run
?MAKE: -pick add $@ %<
?X:all files declared as "public" since they're used from other units
?F:signal.c signal_cmd signal.lst signal signal.awk
?T: xx xxx xxxfiles
?LINT:use rm run
: Trace out the files included by signal.h, then look for SIGxxx
 names.
?X: Remove SIGARRAYSIZE used by HPUX.
?X: Remove SIGSTKSIZE used by Linux.
?X: Remove SIGSTKSZ used by Posix.
?X: Remove SIGTYP void lines used by OS2.
?X: Some cpps, like os390, dont give the file name anywhere
if [ "X$fieldn" = X ]; then
 : Just make some guesses.  We check them later.
 xxx='/usr/include/signal.h /usr/include/sys/signal.h'
else
```

```
 xxx=`echo '#include <signal.h>' |
 $cppstdin $cppminus $cppflags 2>/dev/null |
 $grep '^[  ]*#.*include' |
 $awk "{print \\$$fieldn}" | $sed 's!"!!g' |\
  $sed 's!\\\\\\\\!/!g' | $sort | $uniq`
fi
?X: Check this list of files to be sure we have parsed the cpp output ok.
?X: This will also avoid potentially non-existent files, such
?X: as ../foo/bar.h
xxxfiles="
?X: Add /dev/null in case the $xxx list is empty.
for xx in $xxx /dev/null ; do
 $test -f "$xx" && xxxfiles="$xxxfiles $xx"
done
?X: If we have found no files, at least try signal.h
case "$xxxfiles" in
") xxxfiles=`./findhdr signal.h` ;;
esac
xxx=`awk '
$1 ~ /^#define$/ &&
 $2 ~ /^SIG[A-Z0-9]*$/ && $2 !~ /SIGARRAYSIZE/ && $2 !~ /SIGSTKSIZE/ && $2 !~ /SIGSTKSZ/ && $3 !~
/void/ {
 print substr($2, 4, 20)
}
$1 == "#" && $2 ~ /^define$/ && $3 ~ /^SIG[A-Z0-9]*$/ && $3 !~ /SIGARRAYSIZE/ && $4 !~ /void/ {
 print substr($3, 4, 20)
}' $xxxfiles`
: Append some common names just in case the awk scan failed.
xxx="$xxx ABRT ALRM BUS CANCEL CHLD CLD CONT DIL EMT FPE"
xxx="$xxx FREEZE HUP ILL INT IO IOT KILL LOST LWP PHONE"
xxx="$xxx PIPE POLL PROF PWR QUIT RTMAX RTMIN SEGV STKFLT STOP"
xxx="$xxx SYS TERM THAW TRAP TSTP TTIN TTOU URG USR1 USR2"
xxx="$xxx USR3 USR4 VTALRM WAITING WINCH WIND WINDOW XCPU XFSZ"

: generate a few handy files for later
$cat > signal.c <<'EOCP'
#include <sys/types.h>
#include <signal.h>
#include <stdio.h>
int main() {

/* Strange style to avoid deeply-nested #if/#else/#endif */
#ifndef NSIG
#  ifdef _NSIG
#    define NSIG (_NSIG)
#  endif
#endif
```

```
#ifndef NSIG
#  ifdef SIGMAX
#    define NSIG (SIGMAX+1)
#  endif
#endif

#ifndef NSIG
#  ifdef SIG_MAX
#
   define NSIG (SIG_MAX+1)
#  endif
#endif

#ifndef NSIG
#  ifdef MAXSIG
#    define NSIG (MAXSIG+1)
#  endif
#endif

#ifndef NSIG
#  ifdef MAX_SIG
#    define NSIG (MAX_SIG+1)
#  endif
#endif

#ifndef NSIG
#  ifdef SIGARRAYSIZE
#    define NSIG (SIGARRAYSIZE+1) /* Not sure of the +1 */
#  endif
#endif

#ifndef NSIG
#  ifdef _sys_nsig
#    define NSIG (_sys_nsig) /* Solaris 2.5 */
#  endif
#endif

/* Default to some arbitrary number that's big enough to get most
  of the common signals.
*/
#ifndef NSIG
#    define NSIG 50
#endif

printf("NSIG %d\n", NSIG);

#ifndef JUST_NSIG
```

```
EOCP

echo $xxx | $tr ' ' $trnl | $sort | $uniq | $awk '
{
 printf "#ifdef SIG"; printf $1; printf "\n"
 printf "printf(\""; printf $1; printf " %%d\\n\",SIG";
 printf $1; printf ");\n"
 printf "#endif\n"
}
END {
 printf "#endif /* JUST_NSIG */\n";
 printf "exit(0);\n}\n";
}
' >>signal.c
$cat >signal.awk <<'EOP'
BEGIN { ndups = 0 }
$1 ~ /^NSIG$/ { nsig = $2 }
($1 !~ /^NSIG$/) && (NF == 2) {
   if ($2 >
 maxsig) { maxsig = $2 }
   if (sig_name[$2]) {
 dup_name[ndups] = $1
 dup_num[ndups] = $2
 ndups++
   }
   else {
 sig_name[$2] = $1
 sig_num[$2] = $2
   }
}
END {
   if (nsig == 0) {
    nsig = maxsig + 1
   }
   printf("NSIG %d\n", nsig);
   for (n = 1; n < nsig; n++) {
 if (sig_name[n]) {
     printf("%s %d\n", sig_name[n], sig_num[n])
 }
 else {
     printf("NUM%d %d\n", n, n)
 }
   }
   for (n = 0; n < ndups; n++) {
 printf("%s %d\n", dup_name[n], dup_num[n])
   }
}
EOP
```

```
$cat >signal_cmd <<EOS
$startsh
if $test -s signal.lst; then
   echo "Using your existing signal.lst file"
 exit 0
fi
xxx="$xxx"
EOS
?X: Avoid variable interpolation problems, especially with
?X: xxx, which contains newlines.
$cat >>signal_cmd <<'EOS'

set signal
if eval $compile_ok; then
 $run ./signal$_exe | ($sort -n -k 2 2>/dev/null || $sort -n +1) |\
  $uniq | $awk -f signal.awk >signal.lst
else
 echo "(I can't seem be able to compile the whole test program)" >&4
 echo "(I'll try it in little
 pieces.)" >&4
 set signal -DJUST_NSIG
 if eval $compile_ok; then
  $run ./signal$_exe > signal.nsg
  $cat signal.nsg
 else
  echo "I can't seem to figure out how many signals you have." >&4
  echo "Guessing 50." >&4
  echo 'NSIG 50' > signal.nsg
 fi
 : Now look at all the signal names, one at a time.
 for xx in `echo $xxx | $tr ' ' $trnl | $sort | $uniq`; do
  $cat > signal.c <<EOCP
#include <sys/types.h>
#include <signal.h>
#include <stdio.h>
int main() {
printf("$xx %d\n", SIG${xx});
return 0;
}
EOCP
  set signal
  if eval $compile; then
   echo "SIG${xx} found."
   $run ./signal$_exe  >> signal.ls1
  else
   echo "SIG${xx} NOT found."
  fi
 done
```

```
 if $test -s signal.ls1; then
  $cat signal.nsg signal.ls1 |
   $sort -n | $uniq | $awk -f signal.awk >signal.lst
 fi

fi
if $test -s signal.lst; then
 :
else
 echo "(AAK! I can't compile the test programs -- Guessing)" >&4
 echo 'kill -l' >signal
 set X `csh -f <signal`
 $rm -f signal
 shift
 case $# in
 0) set HUP INT QUIT ILL TRAP ABRT
 EMT FPE KILL BUS SEGV SYS PIPE ALRM TERM;;
 esac
 echo $@ | $tr ' ' $trnl | \
     $awk '{ printf "%s %d\n", $1, ++s; }
    END { printf "NSIG %d\n", ++s }' >signal.lst
fi
$rm -f signal.c signal$_exe signal$_o signal.nsg signal.ls1
EOS
chmod a+x signal_cmd
$eunicefix signal_cmd
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Signal.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2000,2014 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fpclassify d_fp_classify: Inlibc cat Compile rm_try Setvar
?MAKE: -pick add $@ %<
?X:the short story is that C99 says use fpclassify.  But the story is confused
?X:by systems "partially C99" (or fully "pre C99") which either user fpclassify
?X:but with different return values, or they use fp_classify (with the expected)
?X:return values, or they use some other spelling of *fp*class* (sometimes even
?X:without the *fp* part), with yet another set(s) of return values ...
?S:d_fpclassify:
?S: This variable conditionally defines the HAS_FPCLASSIFY symbol, which
?S: indicates to the C program that the fpclassify() routine is available.
?S:.
```

```
?S:d_fp_classify:
?S: This variable conditionally defines the HAS_FP_CLASSIFY
 symbol, which
?S: indicates to the C program that the fp_classify() routine is available.
?S:.
?C:HAS_FPCLASSIFY:
?C: This symbol, if defined, indicates that the fpclassify routine is
?C: available to classify doubles.  Available for example in HP-UX.
?C: The returned values are defined in <math.h> and are
?C:
?C:   FP_NORMAL     Normalized
?C:   FP_ZERO       Zero
?C:   FP_INFINITE   Infinity
?C:   FP_SUBNORMAL  Denormalized
?C:   FP_NAN        NaN
?C:
?C:.
?C:HAS_FP_CLASSIFY:
?C: This symbol, if defined, indicates that the fp_classify routine is
?C: available to classify doubles. The values are defined in <math.h>
?C:
?C:   FP_NORMAL     Normalized
?C:   FP_ZERO       Zero
?C:   FP_INFINITE   Infinity
?C:   FP_SUBNORMAL  Denormalized
?C:   FP_NAN        NaN
?C:
?C:.
?H:#$d_fpclassify HAS_FPCLASSIFY  /**/
?H:#$d_fp_classify HAS_FP_CLASSIFY  /**/
?H:.
?LINT:set d_fpclassify
?LINT:set d_fp_classify
: check for fpclassify
?X:classified (Comment by jhi)
?X:fpclassify i_math
?X:fp_classify i_math
?X:fpclass i_math
 i_ieeefp i_fp
?X:fp_class i_math i_fp_class
?X:  No i_fp_class yet. But the systems that have
?X:  this (Tru64 and IRIX) both had <fp_class.h>
?X:class i_math
echo "Checking to see if you have fpclassify..." >&4
$cat >try.c <<EOCP
#include <math.h>
int main() { return fpclassify(1.0) == FP_NORMAL ? 0 : 1; }
EOCP
```

```
set try
if eval $compile; then
 val="$define"
 echo "You have fpclassify."
else
 val="$undef"
 echo "You do not have fpclassify."
fi
$rm_try
set d_fpclassify
eval $setvar

: see if fp_classify exists
set fp_classify d_fp_classify
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fpclassify.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: byteorder.U,v 3.0.1.2 1997/02/28 15:24:55 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: byteorder.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:24:55  ram
?RCS: patch61: no longer ask the user if the test runs ok
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:02:58  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:28  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:byteorder: cat Myread Oldconfig Loc Compile rm_try run \
 multiarch uvtype uvsize i_stdlib
?MAKE: -pick add $@ %<
?S:byteorder:
?S: This
 variable holds the byte order in a UV. In the following,
?S: larger digits indicate more significance.  The variable byteorder
```

```
?S: is either 4321 on a big-endian machine, or 1234 on a little-endian,
?S: or 87654321 on a Cray ... or 3412 with weird order !
?S:.
?C:BYTEORDER:
?C: This symbol holds the hexadecimal constant defined in byteorder,
?C: in a UV, i.e. 0x1234 or 0x4321 or 0x12345678, etc...
?C: If the compiler supports cross-compiling or multiple-architecture
?C: binaries, use compiler-defined macros to
?C: determine the byte order.
?C:.
?H:?%<:#if defined(MULTIARCH)
?H:?%<:#  ifdef __LITTLE_ENDIAN__
?H:?%<:#    if LONGSIZE == 4
?H:?%<:#      define BYTEORDER 0x1234
?H:?%<:#    else
?H:?%<:#      if LONGSIZE == 8
?H:?%<:#        define BYTEORDER 0x12345678
?H:?%<:#      endif
?H:?%<:#    endif
?H:?%<:#  else
?H:?%<:#    ifdef __BIG_ENDIAN__
?H:?%<:#      if LONGSIZE == 4
?H:?%<:#        define BYTEORDER 0x4321
?H:?%<:#      else
?H:?%<:#        if LONGSIZE
 == 8
?H:?%<:#          define BYTEORDER 0x87654321
?H:?%<:#        endif
?H:?%<:#      endif
?H:?%<:#    endif
?H:?%<:#  endif
?H:?%<:#else
?H:?%<:#define BYTEORDER 0x$byteorder /* large digits for MSB */
?H:?%<:#endif
?H:.
?T:xxx_prompt
?F:!try
: check for ordering of bytes in a UV
echo " "
case "$multiarch" in
*$define*)
 $cat <<EOM
You seem to be doing a multiarchitecture build,
skipping the byteorder check.

EOM
 byteorder='ffff'
 ;;
```

```
*)
 case "$byteorder" in
 ")
  $cat <<'EOM'
In the following, larger digits indicate more significance.  A big-endian
machine like a Pyramid or a Motorola 680?0 chip will come out to 4321. A
little-endian machine like a Vax or an Intel 80?86 chip would be 1234. Other
machines may have weird orders like 3412.  A Cray will report 87654321,
an Alpha will report 12345678. If the test program works the default is
probably right.
I'm now running the test program...
EOM
  $cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include
 <sys/types.h>
typedef $uvtype UV;
int main()
{
 int i;
 union {
  UV l;
  char c[$uvsize];
 } u;

 if ($uvsize > 4)
  u.l = (((UV)0x08070605) << 32) | (UV)0x04030201;
 else
  u.l = (UV)0x04030201;
 for (i = 0; i < $uvsize; i++)
  printf("%c", u.c[i]+'0');
 printf("\n");
 exit(0);
}
EOCP
  xxx_prompt=y
  set try
  if eval $compile && $run ./try > /dev/null; then
   dflt=`$run ./try`
   case "$dflt" in
   [1-4][1-4][1-4][1-4]|12345678|87654321)
    echo "(The test program ran ok.)"
    echo "byteorder=$dflt"
    xxx_prompt=n
```

```
   ;;
   ????|????????) echo "(The test program ran ok.)" ;;
   *) echo "(The test program didn't run right for some reason.)" ;;
   esac
  else
   dflt='4321'
   cat <<'EOM'
(I can't seem to compile the test program.  Guessing big-endian...)
EOM
  fi
  case "$xxx_prompt" in
  y)
   rp="What is the order of bytes in $uvtype?"
   . ./myread
   byteorder="$ans"
   ;;
  *) byteorder=$dflt
   ;;
  esac
  ;;
 esac
 $rm_try
 ;;
esac
```

Found in path(s):
*
 /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/byteorder.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sh.U,v 3.0.1.1 1997/02/28 16:20:13 ram Exp $
?RCS:
?RCS: Copyright (c) 1997, Chip Salzenberg
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sh.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:20:13  ram
?RCS: patch61: created
?RCS:
?MAKE:sh targetsh: Head
?MAKE: -pick wipe $@ %<
```

```
?S:sh:
?S: This variable contains the full pathname of the shell used
?S: on this system to execute Bourne shell scripts.  Usually, this will be
?S: /bin/sh, though it's possible that some systems will have /bin/ksh,
?S: /bin/pdksh, /bin/ash, /bin/bash, or even something such as
?S: D:/bin/sh.exe.
?S: This
 unit comes before Options.U, so you can't set sh with a -D
?S: option, though you can override this (and startsh)
?S: with -O -Dsh=/bin/whatever -Dstartsh=whatever
?S:.
?S:targetsh:
?S: If cross-compiling, this variable contains the location of sh on the
?S: target system.
?S: If not, this will be the same as $sh.
?S:.
?C:SH_PATH:
?C: This symbol contains the full pathname to the shell used on this
?C: on this system to execute Bourne shell scripts.  Usually, this will be
?C: /bin/sh, though it's possible that some systems will have /bin/ksh,
?C: /bin/pdksh, /bin/ash, /bin/bash, or even something such as
?C: D:/bin/sh.exe.
?C:.
?H:#define SH_PATH "$targetsh"  /**/
?H:.
?T:xxx try pth p SYSTYPE
?LINT:extern maintloc maintname _exe
?X:
?X: Be quiet unless something unusual happens because this gets
?X: loaded up even before options are processed.
?X: Can't use ./loc because that depends on startsh, which, in turn
?X: depends on this unit.
?X:
: Find the basic shell for
 Bourne shell scripts
case "$sh" in
")
?X: SYSTYPE is for some older MIPS systems.
?X: I do not know if it is still needed.
 case "$SYSTYPE" in
 *bsd*|sys5*) xxx="/$SYSTYPE/bin/sh";;
 *) xxx='/bin/sh';;
 esac
 if test -f "$xxx"; then
  sh="$xxx"
 else
  : Build up a list and do a single loop so we can 'break' out.
  pth=`echo $PATH | sed -e "s/$p_/ /g"`
```

```
  for xxx in sh bash ksh pdksh ash; do
   for p in $pth; do
    try="$try ${p}/${xxx}"
   done
  done
  for xxx in $try; do
   if test -f "$xxx"; then
    sh="$xxx";
    break
   elif test "X$_exe" != X -a -f "$xxx$_exe"; then
    sh="$xxx";
    break
   elif test -f "$xxx.exe"; then
    sh="$xxx";
    break
   fi
  done
 fi
 ;;
esac

?X: fd 4 isn't open yet...
case "$sh" in
") cat >&2 <<EOM
$me:  Fatal Error:  I can't find a Bourne Shell anywhere.

Usually it's in /bin/sh.  How did you even get this far?
Please report this issue at <$maintloc>
and we'll try to straighten this all out.
EOM
 exit 1
 ;;
esac

: When cross-compiling we
 need to separate the sh-to-run-Configure-with from the sh-to-use-in-Perl
: default both to the same thing, cross-compilers can then set targetsh differently if they like
targetsh=$sh
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/sh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extractall.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:00:43  ram
?RCS: patch61: created
?RCS:
?X:
?X: If extraction has been requested, load the configuration file, perform
?X: the extraction and exit.
?X:
?X: This unit was originally a part of Options.U. It had to be removed from
?X: it to prevent a dependency cycle: Extract -> src -> Options -> Extract
?X: The Begin.U unit now requires us before beginning to do anything
?X: interesting, to ensure proper semantics. -- RAM, 15/03/96
?X:
?MAKE:Extractall:
 Extract Options
?MAKE: -pick wipe $@ %<
: extract files and exit if asked to do so
case "$extractsh" in
true)
?X: Undo the forced silent=true when -S was supplied, by probing realsilent
?X: which was set iff -s was also given. See Options.U for details.
 case "$realsilent" in
 true) ;;
 *) exec 1>&4;;
 esac
 case "$config_sh" in
 ") config_sh='config.sh';;
 esac
 echo " "
 echo "Fetching answers from $config_sh..."
 cd ..
 . $config_sh
 test "$override" && . ./optdef.sh
 echo " "
?X: extract has to be run from the top directory, not within UU.
 . UU/extract
 rm -rf UU
 echo "Extraction done."
 exit 0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Extractall.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_shm.U,v 3.0 1993/08/18 12:07:17 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_shm.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_shm: test d_shmctl d_shmget d_shmat d_shmdt Setvar Findhdr osname
?MAKE: -pick add $@ %<
?S:d_shm:
?S: This variable conditionally defines the HAS_SHM symbol, which
?S: indicates that the entire shm*(2) library is present.
?S:.
?C:HAS_SHM:
?C: This symbol, if defined, indicates that the entire shm*(2) library is
?C: supported.
?C:.
?H:#$d_shm HAS_SHM  /**/
?H:.
?T:h_shm
?LINT:set
 d_shm
: see how much of the 'shm*(2)' library is present.
h_shm=true
echo " "
case "$d_shmctl$d_shmget$d_shmat$d_shmdt" in
*"$undef"*) h_shm=false;;
esac
case "$osname" in
freebsd)
   case "`ipcs 2>&1`" in
   "SVID shared memory"*"not configured"*)
 echo "Your $osname does not have the shm*(2) configured." >&4
       h_shm=false
 val="$undef"
 set shmctl d_shmctl
```

```
 eval $setvar
 set shmget d_shmget
 eval $setvar
 set shmat d_shmat
 eval $setvar
 set shmdt d_shmdt
 eval $setvar
 ;;
   esac
   ;;
esac
: we could also check for sys/ipc.h ...
if $h_shm && $test `./findhdr sys/shm.h`; then
 echo "You have the full shm*(2) library." >&4
 val="$define"
else
 echo "You don't have the full shm*(2) library." >&4
 val="$undef"
fi
set d_shm
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_shm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_perror.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_perror.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:11:38  ram
?RCS: patch32: always define HAS_PERROR even when not used in C code
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_perror: Inlibc
?MAKE: -pick add $@ %<
?S:d_perror:
?S: This variable conditionally remaps perror to a null action and
```

```
?S: defines the symbol HAS_PERROR, which indicates to the C program
?S: that the perror()
 routine is not available to print system
?S: error messages.
?S:.
?C:HAS_PERROR ~ %<:
?C: This symbol, if defined, indicates that the perror() routine is
?C: available to print system error messages. If not defined, you should
?C: use your own diagnostic routine...
?C:.
?C:perror ~ %<:
?C: This symbol is maped to null if the  perror() routine is not
?C: available to print system error messages.
?C:.
?H:?%<:#$d_perror HAS_PERROR /**/
?H:?%<:#ifndef HAS_PERROR
?H:?%<:#define perror(s) ;  /* mapped to a null statement */
?H:?%<:#endif
?H:.
?LINT:set d_perror
: see if perror exists
set perror d_perror
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_perror.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2005 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_unsetenv: Inlibc
?MAKE: -pick add $@ %<
?S:d_unsetenv:
?S: This variable conditionally defines the HAS_UNSETENV symbol, which
?S: indicates to the C program that the unsetenv () routine is available.
?S:.
?C:HAS_UNSETENV:
?C: This symbol, if defined, indicates that the unsetenv () routine is
?C: available for use.
?C:.
?H:#$d_unsetenv HAS_UNSETENV  /**/
?H:.
```

```
?LINT:set d_unsetenv
: see if unsetenv exists
set unsetenv d_unsetenv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_unsetenv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_finite: Inlibc
?MAKE: -pick add $@ %<
?S:d_finite:
?S: This variable conditionally defines the HAS_FINITE symbol, which
?S: indicates to the C program that the finite() routine is available.
?S:.
?C:HAS_FINITE:
?C: This symbol, if defined, indicates that the finite routine is
?C: available to check whether a double is finite (non-infinity non-NaN).
?C:.
?H:#$d_finite HAS_FINITE  /**/
?H:.
?LINT:set d_finite
: see if finite exists
set finite d_finite
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_finite.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sitescript.U,v $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
?RCS: $Log: sitescript.U,v $
?RCS:
?MAKE:sitescript sitescriptexp installsitescript : Getfile Oldconfig test \
 Setprefixvar sitebin siteprefix
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitescript="
?S:sitescript:
?S: This variable holds the name of the directory in which the user wants
?S: to put add-on publicly executable files for the package in question.  It
?S: is most often a local directory such as /usr/local/bin. Programs using
?S: this variable must be prepared to deal with ~name substitution.
?S: The standard
 distribution will put nothing in this directory.
?S: After perl has been installed, users may install their own local
?S: scripts in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitescriptexp="
?S:sitescriptexp:
?S: This is the same as the sitescript variable, but is filename expanded at
?S: configuration time, for use in your makefiles.
?S:.
?D:installsitescript="
?S:installsitescript:
?S: This variable is usually the same as sitescriptexp, unless you are on
?S: a system running AFS, in which case they may differ slightly. You
?S: should always use this variable within your makefiles for portability.
?S:.
?LINT:change prefixvar
?LINT:set installsitescript
?LINT:set sitescript
?LINT:set sitescriptexp
: determine where add-on public executable scripts go
case "$sitescript" in
") dflt=$siteprefix/script
 $test -d $dflt || dflt=$sitebin ;;
*)  dflt="$sitescript" ;;
esac
fn=d~+
rp='Pathname where add-on public executable scripts
 should be installed?'
. ./getfile
prefixvar=sitescript
. ./setprefixvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/sitescript.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_unordered: Inlibc
?MAKE: -pick add $@ %<
?S:d_unordered:
?S: This variable conditionally defines the HAS_UNORDERED symbol, which
?S: indicates to the C program that the unordered() routine is available.
?S:.
?C:HAS_UNORDERED:
?C: This symbol, if defined, indicates that the unordered routine is
?C: available to check whether two doubles are unordered
?C: (effectively: whether either of them is NaN)
?C:.
?H:#$d_unordered HAS_UNORDERED  /**/
?H:.
?LINT:set d_unordered
: see if unordered exists
set unordered d_unordered
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_unordered.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_hasmntopt: Inlibc
?MAKE: -pick add $@ %<
?S:d_hasmntopt:
?S: This variable conditionally defines the HAS_HASMNTOPT symbol, which
?S: indicates to the C program that the hasmntopt() routine is available
?S: to query the mount options of file systems.
```

```
?S:.
?C:HAS_HASMNTOPT:
?C: This symbol, if defined, indicates that the hasmntopt routine is
?C: available to query the mount options of file systems.
?C:.
?H:#$d_hasmntopt HAS_HASMNTOPT  /**/
?H:.
?LINT:set d_hasmntopt
: see if hasmntopt exists
set hasmntopt d_hasmntopt
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_hasmntopt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: contains.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: contains.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:contains: Nothing
?MAKE: -pick add $@ %<
?S:contains:
?S: This variable holds the command to do a grep with a proper return
?S: status.  On most sane systems it is simply "grep".  On insane systems
?S: it is a grep followed by a cat followed by a test.  This variable
?S: is primarily for the use of other Configure units.
?S:.
: Some
 greps do not return status, grrr.
echo "grimblepritz" >grimble
if grep blurfldyick grimble >/dev/null 2>&1 ; then
 contains=contains
elif grep grimblepritz grimble >/dev/null 2>&1 ; then
 contains=grep
else
 contains=contains
```

```
fi
rm -f grimble
: the following should work in any shell
case "$contains" in
contains*)
 echo " "
 echo "AGH!  Grep doesn't return a status.  Attempting remedial action."
 cat >contains <<'EOSS'
grep "$1" "$2" >.greptmp && cat .greptmp && test -s .greptmp
EOSS
chmod +x contains
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/contains.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isnormal: cat Compile Setvar rm_try
?MAKE: -pick add $@ %<
?S:d_isnormal:
?S: This variable conditionally defines the HAS_ISNORMAL symbol, which
?S: indicates to the C program that the isnormal() routine is available.
?S:.
?C:HAS_ISNORMAL:
?C: This symbol, if defined, indicates that the isnormal routine is
?C: available to check whether a double is normal (non-zero normalized).
?C:.
?H:#$d_isnormal HAS_ISNORMAL  /**/
?H:.
?LINT:set d_isnormal
: check for isnormal
echo "Checking to see if you have isnormal..." >&4
$cat >try.c <<EOCP
#include <math.h>
int main() { return isnormal(0.0); }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have isnormal."
else
 val="$undef"
 echo "You do not have isnormal."
fi
```

```
$rm_try
set d_isnormal
eval $setvar
```

Found
 in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_isnormal.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_setproctitle: Inlibc
?MAKE: -pick add $@ %<
?S:d_setproctitle:
?S: This variable conditionally defines the HAS_SETPROCTITLE symbol,
?S: which indicates to the C program that the setproctitle() routine
?S: is available.
?S:.
?C:HAS_SETPROCTITLE:
?C: This symbol, if defined, indicates that the setproctitle routine is
?C: available to set process title.
?C:.
?H:#$d_setproctitle HAS_SETPROCTITLE  /**/
?H:.
?LINT:set d_setproctitle
: see if setproctitle exists
set setproctitle d_setproctitle
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_setproctitle.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_signbit: nvtype Compile Setvar cat run rm_try echo n c i_sunmath
?MAKE: -pick add $@ %<
?S:d_signbit:
```

```
?S: This variable conditionally defines the HAS_SIGNBIT symbol, which
?S: indicates to the C program that the signbit() routine is available
?S: and safe to use with perl's intern NV type.
?S:.
?C:HAS_SIGNBIT:
?C: This symbol, if defined, indicates that the signbit routine is
?C: available to check if the given number has the sign bit set.
?C: This should include correct testing of -0.0.  This will only be set
?C: if the signbit() routine is safe to use with the NV type used internally
?C: in perl.  Users should call Perl_signbit(), which will be #defined to
?C: the system's signbit() function or macro if this symbol is defined.
?C:.
?H:#$d_signbit
 HAS_SIGNBIT  /**/
?H:.
?F:!try
?LINT:set d_signbit
: see if signbit exists
$echo $n "Checking to see if you have signbit() available to work on $nvtype... $c" >&4
$cat >try.c <<EOCP
#$i_sunmath I_SUNMATH
#include <math.h>
#ifdef I_SUNMATH  /* Solaris special math library */
#  include <sunmath.h>
#endif
#define NV $nvtype
int main(int argc, char **argv)
{
   NV x = 0.0;
   NV y = -1.0;
   if ((signbit(x) == 0) && (signbit(y) != 0))
 return 0;
   else
 return 1;
}
EOCP
val="$undef"
set try
if eval $compile; then
   if $run ./try; then
       $echo "Yes." >&4
 val="$define"
   else
       $echo "Signbit seems to be available, but doesn't work as I expected."
       $echo "I won't use it." >&4
 val="$undef"
   fi
else
```

```
   $echo "Nope." >&4
   dflt="$undef"
fi
set d_signbit
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_signbit.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_tzname.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_tzname.U,v $
?RCS: Revision 3.0.1.2  1994/08/29  16:14:43  ram
?RCS: patch32: forgot to set proper value in the val variable
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:57:55  ram
?RCS: patch30: created
?RCS:
?MAKE:d_tzname: Csym Setvar
?MAKE: -pick add $@ %<
?S:d_tzname:
?S: This variable conditionally defines HAS_TZNAME if tzname[] is
?S: available to access timezone names.
?S:.
?C:HAS_TZNAME:
?C: This symbol, if defined, indicates that the tzname[]
 array is
?C: available to access timezone names.
?C:.
?H:#$d_tzname HAS_TZNAME  /**/
?H:.
?LINT:set d_tzname
: see if tzname[] exists
echo " "
if set tzname val -a d_tzname; eval $csym; $val; then
 val="$define"
 echo 'tzname[] found.' >&4
```

```
else
 val="$undef"
 echo 'tzname[] NOT found.' >&4
fi
set d_tzname
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_tzname.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_utime.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_utime.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_utime: Inhdr
?MAKE: -pick add $@ %<
?S:i_utime:
?S: This variable conditionally defines the I_UTIME symbol, and indicates
?S: whether a C program should include <utime.h>.
?S:.
?C:I_UTIME:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <utime.h>.
?C:.
?H:#$i_utime I_UTIME  /**/
?H:.
?LINT:set i_utime
:
 see if this is an utime system
set utime.h i_utime
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_utime.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d__fwalk: Inlibc
?MAKE: -pick add $@ %<
?S:d__fwalk:
?S: This variable conditionally defines HAS__FWALK if _fwalk() is
?S: available to apply a function to all the file handles.
?S:.
?C:HAS__FWALK:
?C: This symbol, if defined, indicates that the _fwalk system call is
?C: available to apply a function to all the file handles.
?C:.
?H:#$d__fwalk HAS__FWALK  /**/
?H:.
?LINT:set d__fwalk
: see if _fwalk exists
set fwalk d__fwalk
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d__fwalk.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: install.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: install.U,v $
?RCS: Revision 3.0.1.2  1995/09/25  09:16:37  ram
?RCS: patch59: all possible install programs are now looked for
?RCS:
```

```
?RCS: Revision 3.0.1.1  1995/01/11  15:30:41  ram
?RCS: patch45: created
?RCS:
?MAKE:install installdir: Loc Oldconfig Getfile cat test startsh rm +cc \
 eunicefix package contains mkdir echo n c
?MAKE: -pick add $@ %<
?S:install:
?S: This variable contains the name of an install program that can accept
?S: BSD-style arguments.
 It must correctly support -c, -s, and -m at least.
?S: It is a fully qualified pathname when found. If you have a local
?S: install.SH file at the root directory of your package, it is assumed to
?S: be the default script emulating a BSD install and the variable will be
?S: set to ./install. Otherwise, it is set to plain 'install', relying on
?S: the user's PATH to perform miracles.
?S:.
?S:installdir:
?S: This variable contains the name of a program that can install nested
?S: directories. Often set to 'mkdir -p', it can also be 'install -d' if
?S: you have such a beast and lack the former. If you have an install.SH
?S: file at the root directory of your package, it will be used in last
?S: resort, setting the variable to './install -d'. Otherwise, it is set to
?S: plain 'mkdir', and cross your fingers!
?S:.
?T:dir file tryit prog creatdir either
?F:!tryinst
: locate a BSD compatible install program
echo " "
echo "Looking for a BSD-compatible install program..." >&4
@if installdir
creatdir="
@end
case
 "$install" in
")
 tryit="
 for dir in $pth; do
  for file in ginstall installbsd scoinst install; do
   if $test -f $dir/$file; then
    tryit="$tryit $dir/$file"
   fi
  done
 done
 $cat >try.c <<EOC
int main()
{
 printf("OK\n");
 exit(0);
```

```
}
EOC
 if $cc -o try try.c >/dev/null 2>&1; then
  cp try try.ns
  strip try >/dev/null 2>&1
 else
  echo "(I can't seem to compile a trivial C program -- bypassing.)"
  echo "try" >try
  cp try try.ns
 fi
 $cat >tryinst <<EOS
$startsh
$rm -rf foo d
@if installdir
\$1 -d foo/bar
@end
$mkdir d
\$1 -c -m 764 try.ns d
\$1 -c -s -m 642 try.ns d/try
EOS
 chmod +x tryinst
 $eunicefix tryinst
 dflt=''
 either=''
 for prog in $tryit; do
  $echo $n "Checking $prog... $c"
  ./tryinst $prog >/dev/null 2>&1
@if installdir
  if $test -d foo/bar; then
   creatdir="$prog -d"
  fi
@end
  (ls -l d/try >try.ls; ls -l d/try.ns >tryno.ls) 2>/dev/null
  if (cmp -s d/try try && cmp -s d/try.ns try.ns && \
   $contains 'rwxrw-r--' tryno.ls &&
 \
   $contains 'rw-r---w-' try.ls) >/dev/null 2>&1
  then
   dflt="$prog"
   echo "ok, that will do."
   break
  fi
  echo "not good$either."
  either=' either'
  $rm -f try*.ls
 done
 $rm -rf foo d tryinst try try*.ls try.*
 case "$dflt" in
```

```
 ")
@if {test -f ../install.SH}
  echo "Hopefully, $package comes with its own install script!"
  dflt='./install'
@else
  dflt='install'
@end
  ;;
 esac
 ;;
*) dflt="$install";;
esac
$cat <<EOM

I will be requiring a BSD-compatible install program (one that allows
options like -s to strip executables or -m to specify a file mode) to
install $package.

If the question below contains a fully qualified default path, then it
is probably ok. If it is an unqualified name such as 'install', then it
means I was unable to find out a good install program I could use. If
@if {test -f ../install.SH}
you know of one, please tell me about it. If the default is './install',
then I shall be using the install script supplied with $package.
@else
you know of one,
 please tell me about it.
@end

EOM
@if {test -f ../install.SH}
fn='/fe~(install,./install)'
@else
fn='/fe~(install)'
@end
rp='Which install program shall I use?'
. ./getfile
install="$ans"

@if installdir
: how can we create nested directories?
echo " "
echo "Ok, let's see how we can create nested directories..." >&4
case "$installdir" in
")
?X: First time, maybe we already found out a working one in $creatdir above...
?X: Prefer "mkdir -p" because of bugs in GNU install when not running as root
 $mkdir -p foo/bar >/dev/null 2>&1
```

```
 if $test -d foo/bar; then
  echo "Great, we can build them using 'mkdir -p'."
  creatdir='mkdir -p'
 else
  case "$creatdir" in
  ")
   if eval "$install -d foo/bar"; $test -d foo/bar; then
    creatdir="install -d"
    echo "It looks like '$creatdir' will do it for us."
   fi
   ;;
  *)
   eval "$creatdir foo/bar" >/dev/null 2>&1
   if $test -d foo/bar; then
    echo "Ah! We can use '$creatdir' to do just that."
   else
    creatdir="
   fi
   ;;
  esac
 fi
 $rm
 -rf foo
 case "$creatdir" in
 ")
  echo "Heck! Another ancient system lacking the comfort of modern ones!"
@if {test -f ../install.SH}
  echo "You can thank $package for bringing you its own install script!"
  installdir='./install -d'
@else
  echo "We have no choice but to use plain old 'mkdir' -- wish me luck!"
  installdir=mkdir
@end
  ;;
 *) installdir="$creatdir";;
 esac
 ;;
*) echo "As you already told me, '$installdir' should work.";;
esac

@end
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/install.U
No license file was found, but licenses were detected in source scan.

?RCS: Id

```
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isfinitel: Inlibc
?MAKE: -pick add $@ %<
?S:d_isfinitel:
?S: This variable conditionally defines the HAS_ISFINITEL symbol, which
?S: indicates to the C program that the isfinitel() routine is available.
?S:.
?C:HAS_ISFINITEL:
?C: This symbol, if defined, indicates that the isfinitel routine is
?C: available to check whether a long double is finite.
?C: (non-infinity non-NaN).
?C:.
?H:#$d_isfinitel HAS_ISFINITEL  /**/
?H:.
?LINT:set d_isfinitel
: see if isfinitel exists
set isfinitel d_isfinitel
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_isfinitel.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Init.U,v $
?RCS: Revision 3.0.1.1  1994/10/31  09:45:59  ram
?RCS: patch44: removed Options from MAKE to prevent Init overrides
?RCS: patch44: option processing now done after Myinit thanks to new Begin.U
?RCS: patch44: moved "Beginning of configuration questions" to Begin.U
?RCS: patch44: moved signal trapping instruction to Begin.U as well
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:02  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?X:
?X: This file initializes certain default variables
 used by Configure.  They
?X: may be overridden or added to by definitions in Myinit.U.
?X:
?MAKE:Init eunicefix _exe: Null
?MAKE: -pick add $@ %<
?MAKE: -pick weed $@ ./Init
?S:eunicefix:
?S: When running under Eunice this variable contains a command which will
?S: convert a shell script to the proper form of text file for it to be
?S: executable by the shell.  On other systems it is a no-op.
?S:.
?S:_exe (exe_ext):
?S: This variable defines the extension used for executable files.
?S: For unix it is empty.  Other possible values include '.exe'.
?S: DJGPP, Cygwin and OS/2 use '.exe'.  Stratus VOS uses '.pm'.
?S: On operating systems which do not require a specific extension
?S: for executable files, this variable is empty.
?S:.
?V:define undef smallmach:rmlist
?X:
?X: Throughout the units, one may make use of $define and $undef to reference
?X: a defined symbol or an undefined one. There is no need to add them in
?X: the dependency line since this unit makes them visible via ?V:, and
?X:
 everyone inherits from those symbols since by convention Init.U is the
?X: root dependency.
?X:
?T: DJGPP
: Initialize wide constants
define='define'
undef='undef'
smallmach='pdp11 i8086 z8000 i80286 iAPX286'
rmlist=''

: We must find out about Eunice early
eunicefix=':'
if test -f /etc/unixtovms; then
 eunicefix=/etc/unixtovms
fi
if test -f /etc/unixtovms.exe; then
 eunicefix=/etc/unixtovms.exe
fi

: Set executable suffix now -- needed before hints available
if test -f "/libs/version.library"; then
```

```
 : Amiga OS
  _exe=""
elif test -f "/system/gnu_library/bin/ar.pm"; then
 : Stratus VOS
 _exe=".pm"
elif test -n "$DJGPP"; then
 : DOS DJGPP
  _exe=".exe"
elif test -d c:/. ; then
 : OS/2 or cygwin
 _exe=".exe"
else
 : All other UNIX systems
 _exe=""
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Init.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: Original author Jarkko Hietaniemi <jhi@iki.fi>
?RCS: Merged into dist by Andy Dougherty  July 13, 1998
?RCS:
?MAKE:ebcdic: Compile Setvar cat rm_try run
?MAKE: -pick add $@ %<
?S:ebcdic:
?S: This variable conditionally defines EBCDIC if this
?S: system uses EBCDIC encoding.  Among other things, this
?S: means that the character ranges are not contiguous.
?S: See trnl.U
?S:.
?C:EBCDIC:
?C:     This symbol, if defined, indicates that this system uses
?C: EBCDIC
```

```
 encoding.
?C:.
?H:#$ebcdic EBCDIC   /**/
?H:.
?F:!try
?LINT:set ebcdic
: look whether system uses EBCDIC
echo " "
echo "Determining whether or not we are on an EBCDIC system..." >&4
$cat >try.c <<'EOM'
int main()
{
 if ('M'==0xd4) return 0;
 return 1;
}
EOM
val=$undef
set try
if eval $compile_ok; then
 if $run ./try; then
  echo "You seem to speak EBCDIC." >&4
  val="$define"
 else
  echo "Nope, no EBCDIC, probably ASCII or some ISO Latin. Or UTF-8." >&4
 fi
else
 echo "I'm unable to compile the test program." >&4
 echo "I'll assume ASCII or some ISO Latin. Or UTF8." >&4
fi
$rm_try
set ebcdic
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/ebcdic.U
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```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: d_statblks.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:29  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_statblks: contains Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_statblks:
?S: This variable conditionally defines USE_STAT_BLOCKS if this system
?S: has a stat structure declaring st_blksize and st_blocks.
?S:.
?C:USE_STAT_BLOCKS (STATBLOCKS):
?C: This symbol is defined if this system has a stat structure declaring
?C: st_blksize and st_blocks.
?C:.
?H:#$d_statblks USE_STAT_BLOCKS
  /**/
?H:.
?T:xxx
?LINT:set d_statblks
: see if stat knows about block sizes
echo " "
xxx=`./findhdr sys/stat.h`
if $contains 'st_blocks;' "$xxx" >/dev/null 2>&1 ; then
 if $contains 'st_blksize;' "$xxx" >/dev/null 2>&1 ; then
  echo "Your stat() knows about block sizes." >&4
  val="$define"
 else
  echo "Your stat() doesn't know about block sizes." >&4
  val="$undef"
 fi
else
 echo "Your stat() doesn't know about block sizes." >&4
 val="$undef"
fi
set d_statblks
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_statblks.U
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```
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?RCS:
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```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cf_who.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:28:50  ram
?RCS: patch61: new computation method avoiding use of temporary file
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:42:34  ram
?RCS: patch23: login name now computed the hard way
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:32  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Oldconfig dependency is there to ensure computation occurs after old values
?X: from config.sh have been loaded, so that we can supersede them.
?X:
?MAKE:cf_time
 cf_by: date Oldconfig
?MAKE: -pick add $@ %<
?S:cf_time:
?S: Holds the output of the "date" command when the configuration file was
?S: produced. This is used to tag both config.sh and config_h.SH.
?S:.
?S:cf_by:
?S: Login name of the person who ran the Configure script and answered the
?S: questions. This is used to tag both config.sh and config_h.SH.
?S:.
?LINT:change LC_ALL LANGUAGE
: who configured the system
?X: Ensure English date -- Jarkko Hietaniemi
cf_time=`LC_ALL=C; LANGUAGE=C; export LC_ALL; export LANGUAGE; $date 2>&1`
?X:
?X: Leave a white space between first two '(' for ksh. The sub-shell is needed
?X: on some machines to avoid the error message when logname is not found; e.g.
?X: on SUN-OS 3.2, (logname || whoami) would not execute whoami if logname was
?X: not found. Sigh!
?X:
?X: Convex had a broken logname executable which returned a non-zero status,
?X: and that broke the previous:
?X:   cf_by=`( (logname) 2>/dev/null || whoami) 2>&1`
?X: Switch to emergency
 mode... -- RAM, 19/04/94
?X:
?X: Parentheses needed to avoid error message if the program does not exist.
?X: Uses case instead of $test so it can be put before $test is defined.
?X: Don't redirect to a file because on Ultrix (under script?) logname
```

```
?X: outputs a blank line first.  This method will apparently work.
case "$cf_by" in
"")
 cf_by=`(logname) 2>/dev/null`
 case "$cf_by" in
 "")
  cf_by=`(whoami) 2>/dev/null`
  case "$cf_by" in
  "") cf_by=unknown ;;
  esac ;;
 esac ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/cf_who.U
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```
?RCS: $Id$
?RCS:
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?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sh.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:20:13  ram
?RCS: patch61: created
?RCS:
?MAKE:sh: Head
?MAKE: -pick wipe $@ %<
?S:sh:
?S: This variable contains the full pathname of the shell used
?S: on this system to execute Bourne shell scripts.  Usually, this will be
?S: /bin/sh, though it's possible that some systems will have /bin/ksh,
?S: /bin/pdksh, /bin/ash, /bin/bash, or even something such as
?S: D:/bin/sh.exe.
?S: This unit comes before Options.U,
 so you can't set sh with a -D
?S: option, though you can override this (and startsh)
?S: with -O -Dsh=/bin/whatever -Dstartsh=whatever
?S:.
?C:SH_PATH:
?C: This symbol contains the full pathname to the shell used on this
```

```
?C: on this system to execute Bourne shell scripts.  Usually, this will be
?C: /bin/sh, though it's possible that some systems will have /bin/ksh,
?C: /bin/pdksh, /bin/ash, /bin/bash, or even something such as
?C: D:/bin/sh.exe.
?C:.
?H:#define SH_PATH "$sh"  /**/
?H:.
?T:xxx try pth p SYSTYPE
?LINT:extern maintloc maintname
?X:
?X: Be quiet unless something unusual happens because this gets
?X: loaded up even before options are processed.
?X: Can't use ./loc because that depends on startsh, which, in turn
?X: depends on this unit.
?X:
: Find the basic shell for Bourne shell scripts
case "$sh" in
")
?X: SYSTYPE is for some older MIPS systems.
?X: I do not know if it is still needed.
 case "$SYSTYPE" in
 *bsd*|sys5*) xxx="/$SYSTYPE/bin/sh";;
 *) xxx='/bin/sh';;
 esac
 if
 test -f "$xxx"; then
  sh="$xxx"
 else
  : Build up a list and do a single loop so we can 'break' out.
  pth=`echo $PATH | sed -e "s/$p_/ /g"`
  for xxx in sh bash ksh pdksh ash; do
   for p in $pth; do
    try="$try ${p}/${xxx}"
   done
  done
  for xxx in $try; do
   if test -f "$xxx"; then
    sh="$xxx"
    break
   elif test -f "$xxx$_exe"; then
    sh="$xxx"
    break
   elif test -f "$xxx.exe"; then
    sh="$xxx"
    break
   fi
  done
 fi
```

```
 ;;
esac

?X: fd 4 isn't open yet...
case "$sh" in
") cat >&2 <<EOM
$me:  Fatal Error:  I can't find a Bourne Shell anywhere.

Usually it's in /bin/sh.  How did you even get this far?
Please contact me (<$maintname>) at <$maintloc> and
we'll try to straighten this all out.
EOM
 exit 1
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/sh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2011, H.Merijn Brand & Tony Cook
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:st_ino_size st_ino_sign: cat echo i_stdlib Setvar Compile run rm_try
?MAKE: -pick add $@ %<
?S:st_ino_sign:
?S: This variable contains the signedness of struct stat's st_ino.
?S: 1 for unsigned, -1 for signed.
?S:.
?S:st_ino_size:
?S: This variable contains the size of struct stat's st_ino in bytes.
?S:.
?C:ST_INO_SIZE:
?C: This variable contains the size of struct stat's st_ino in bytes.
?C:.
?C:ST_INO_SIGN:
?C: This symbol holds the signedness of struct stat's st_ino.
?C: 1 for unsigned, -1 for signed.
?C:.
?H:#define ST_INO_SIGN
 $st_ino_sign /* st_ino sign */
?H:#define ST_INO_SIZE $st_ino_size /* st_ino size */
```

```
?H:.
?F:!try
: Check the size of st_ino
$echo " "
$echo "Checking the size of st_ino..." >&4
$cat > try.c <<EOCP
#include <sys/stat.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() {
   struct stat st;
   printf("%d\n", (int)sizeof(st.st_ino));
   exit(0);
}
EOCP
set try
if eval $compile_ok; then
 val=`$run ./try`
 case "$val" in
 ") st_ino_size=4
  $echo "(I can't execute the test program--guessing $st_ino_size.)" >&4
  ;;
 *) st_ino_size=$val
  $echo "Your st_ino is $st_ino_size bytes long."
  ;;
 esac
else
 st_ino_size=4
 $echo "(I can't compile the test program--guessing $st_ino_size.)" >&4
fi
$rm_try

: Check if st_ino is signed
$echo " "
$echo "Checking the sign of st_ino..." >&4
$cat > try.c <<EOCP
#include <sys/stat.h>
#include <stdio.h>
int main() {
 struct stat foo;
       foo.st_ino = -1;
 if (foo.st_ino < 0)
  printf("-1\n");
 else
  printf("1\n");
```

```
}
EOCP
set
 try
if eval $compile; then
 val=`$run ./try`
 case "$val" in
 ") st_ino_sign=1
  $echo "(I can't execute the test program--guessing unsigned.)" >&4
  ;;
 *) st_ino_sign=$val
  case "$st_ino_sign" in
   1) $echo "Your st_ino is unsigned." ;;
  -1) $echo "Your st_ino is signed."   ;;
  esac
  ;;
 esac
else
 st_ino_sign=1
 $echo "(I can't compile the test program--guessing unsigned.)" >&4
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/st_ino_def.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setpwent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_setpwent_r setpwent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_pwd extern_C
?MAKE: -pick add $@ %<
?S:d_setpwent_r:
?S: This variable conditionally defines the HAS_SETPWENT_R symbol,
?S: which indicates to the C program that the setpwent_r()
?S: routine is available.
?S:.
?S:setpwent_r_proto:
?S: This variable encodes the prototype of setpwent_r.
?S: It is zero if d_setpwent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setpwent_r
```

```
?S: is defined.
?S:.
?C:HAS_SETPWENT_R:
?C: This symbol, if defined, indicates that the setpwent_r routine
?C: is available to
 setpwent re-entrantly.
?C:.
?C:SETPWENT_R_PROTO:
?C: This symbol encodes the prototype of setpwent_r.
?C: It is zero if d_setpwent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setpwent_r
?C: is defined.
?C:.
?H:#$d_setpwent_r HAS_SETPWENT_R /**/
?H:#define SETPWENT_R_PROTO $setpwent_r_proto /**/
?H:.
?T:try hdrs d_setpwent_r_proto
: see if setpwent_r exists
set setpwent_r d_setpwent_r
eval $inlibc
case "$d_setpwent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_pwd pwd.h"
 case "$d_setpwent_r_proto:$usethreads" in
 ":define") d_setpwent_r_proto=define
  set d_setpwent_r_proto setpwent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_setpwent_r_proto" in
 define)
 case "$setpwent_r_proto" in
 "|0) try='int setpwent_r(FILE**);'
 ./protochk "$extern_C $try" $hdrs && setpwent_r_proto=I_H ;;
 esac
 case "$setpwent_r_proto" in
 "|0) try='void setpwent_r(FILE**);'
 ./protochk "$extern_C $try" $hdrs && setpwent_r_proto=V_H ;;
 esac
 case "$setpwent_r_proto"
 in
 "|0) d_setpwent_r=undef
  setpwent_r_proto=0
  echo "Disabling setpwent_r, cannot determine prototype." >&4 ;;
 * ) case "$setpwent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) setpwent_r_proto="REENTRANT_PROTO_$setpwent_r_proto" ;;
  esac
```

```
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "setpwent_r has no prototype, not using it." >&4 ;;
  esac
  d_setpwent_r=undef
  setpwent_r_proto=0
  ;;
 esac
 ;;
*) setpwent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_setpwent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sitelib.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:21:35  ram
?RCS: patch61: created
?RCS:
?MAKE:sitelib sitelibexp installsitelib: afs cat Getfile \
 Oldconfig Prefixit test privlib package sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:sitelib:
?S: This variable contains the eventual value of the SITELIB symbol,
?S: which is the name of the private library for this package.  It may
?S: have a ~ on the front. It is up to the makefile to eventually create
?S: this
 directory while performing installation (with ~ substitution).
?S:.
?S:sitelibexp:
?S: This variable is the ~name expanded version of sitelib, so that you
```

```
?S: may use it directly in Makefiles or shell scripts.
?S:.
?S:installsitelib:
?S: This variable is really the same as sitelibexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?C:SITELIB:
?C: This symbol contains the name of the private library for this package.
?C: The library is private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.  The program
?C: should be prepared to do ~ expansion.
?C: The standard distribution will put nothing in this directory.
?C: Individual sites may place their own extensions and modules in
?C: this directory.
?C:.
?C:SITELIB_EXP:
?C: This symbol contains the ~name expanded version of SITELIB, to be used
?C: in programs that are not prepared to deal with ~ expansion
 at run-time.
?C:.
?H:#define SITELIB "$sitelib"  /**/
?H:#define SITELIB_EXP "$sitelibexp"  /**/
?H:.
?T:prog
: determine where site specific libraries go.
set sitelib sitelib
eval $prefixit
case "$sitelib" in
")
?X: remove any trailing -3.0 or other version indentification
 prog=`echo $package | $sed 's/-*[0-9.]*$//'`
 dflt="$privlib/site_$prog" ;;
*) dflt="$sitelib" ;;
esac
$cat <<EOM

The installation process will also create a directory for
site-specific extensions and modules.  Some users find it convenient
to place all local files in this directory rather than in the main
distribution directory.

EOM
fn=d~+
rp='Pathname for the site-specific library files?'
. ./getfile
if $test "X$sitelibexp" != "X$ansexp"; then
 installsitelib="
```

```
fi
sitelib="$ans"
sitelibexp="$ansexp"
if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
private files reside from the directory in which they are installed (and from
which they are presumably copied to
 the former directory by occult means).

EOM
 case "$installsitelib" in
 ") dflt=`echo $sitelibexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installsitelib";;
 esac
 fn=de~
 rp='Where will private files be installed?'
 . ./getfile
 installsitelib="$ans"
else
 installsitelib="$sitelibexp"
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/sitelib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getenv_thread.U,v 0RCS:
?RCS: Copyright (c) 2021 H.Merijn Brand, Karl Williamson
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getenv_preserves_other_thread: echo cat i_stdlib i_pthread run rm_try \
 Compile Setvar
?MAKE: -pick add $@ %<
?S:d_getenv_preserves_other_thread:
?S: This variable conditionally defines the GETENV_PRESERVES_OTHER_THREAD
?S: symbol, which indicates to the C program that the getenv() system call
?S: does not zap the static buffer in a different thread.
?S:.
?C:GETENV_PRESERVES_OTHER_THREAD:
?C: This symbol, if defined, indicates that the getenv system call doesn't
?C: zap the static buffer of getenv() in a different thread.
?C:
?C: The typical getenv() implementation will return a pointer to the proper
```

```
?C: position in **environ.  But some may instead copy them to
 a static
?C: buffer in getenv().  If there is a per-thread instance of that buffer,
?C: or the return points to **environ, then a many-reader/1-writer mutex
?C: will work; otherwise an exclusive locking mutex is required to prevent
?C: races.
?C:.
?H:#$d_getenv_preserves_other_thread GETENV_PRESERVES_OTHER_THREAD /**/
?H:.
?T:rc
?F:!try
?LINT:set d_getenv_preserves_other_thread
: check for getenv behavior
case "$d_getenv_preserves_other_thread" in
")
$echo "Checking to see if getenv() preserves a different thread's results" >&4
$cat >try.c <<EOCP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#include <stdio.h>
#include <string.h>
#$i_pthread I_PTHREAD
#ifdef I_PTHREAD
#  include <pthread.h>
#endif

void *
thread_start(void * arg)
{
   return (void *) getenv("HOME");
}

int main() {
   char * main_buffer;
   char save_main_buffer[1000];
   pthread_t subthread;
   pthread_attr_t attr;

   main_buffer = getenv("PATH");

   /* If too large for our generous allowance,
 return we couldn't figure it
    * out. */
   if (strlen(main_buffer) >= sizeof(save_main_buffer)) {
       exit(2);
   }
```

```
  strcpy(save_main_buffer, main_buffer);

  if (pthread_attr_init(&attr) != 0) {
      exit(2);
  }

  if (pthread_create(&subthread, &attr, thread_start, NULL) != 0) {
      exit(2);
  }

  if (pthread_join(subthread, NULL) != 0) {
      exit(2);
  }

  exit(! (strcmp(main_buffer, save_main_buffer) == 0));
}
EOCP
val=
set try
if eval $compile_ok; then
  $run ./try
  rc=$?
  case "$rc" in
 0) echo "getenv() didn't destroy another thread's buffer" >&4
   val=$define
   ;;
 1) echo "getenv() does destroy another thread's buffer" >&4
   val=$undef
   ;;
 *) echo "Couldn't determine if getenv() destroys another thread's return value (code=$rc); assuming it does" >&4
   val=$undef
   ;;
  esac
else
  echo "(I can't seem to compile the test program.)" >&4
  echo "Assuming that your C library's getenv destroys another thread's
 return value." >&4
  val=$undef
fi
set d_getenv_preserves_other_thread
eval $setvar
$rm_try
;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/threads/d_getenv_thread.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getservbyname_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getservbyname_r getservbyname_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getservbyname_r:
?S: This variable conditionally defines the HAS_GETSERVBYNAME_R symbol,
?S: which indicates to the C program that the getservbyname_r()
?S: routine is available.
?S:.
?S:getservbyname_r_proto:
?S: This variable encodes the prototype of getservbyname_r.
?S: It is zero if d_getservbyname_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getservbyname_r
?S: is defined.
?S:.
?C:HAS_GETSERVBYNAME_R:
?C: This symbol, if defined, indicates
 that the getservbyname_r routine
?C: is available to getservbyname re-entrantly.
?C:.
?C:GETSERVBYNAME_R_PROTO:
?C: This symbol encodes the prototype of getservbyname_r.
?C: It is zero if d_getservbyname_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getservbyname_r
?C: is defined.
?C:.
?H:#$d_getservbyname_r HAS_GETSERVBYNAME_R /**/
?H:#define GETSERVBYNAME_R_PROTO $getservbyname_r_proto /**/
?H:.
?T:try hdrs d_getservbyname_r_proto
: see if getservbyname_r exists
set getservbyname_r d_getservbyname_r
eval $inlibc
case "$d_getservbyname_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getservbyname_r_proto:$usethreads" in
 ":define") d_getservbyname_r_proto=define
```

```
 set d_getservbyname_r_proto getservbyname_r $hdrs
 eval $hasproto ;;
*) ;;
esac
case "$d_getservbyname_r_proto" in
define)
case "$getservbyname_r_proto" in
"|0) try='int getservbyname_r(const char*, const char*, struct servent*, char*,
size_t, struct servent**);'
./protochk "$extern_C $try" $hdrs && getservbyname_r_proto=I_CCSBWR ;;
esac
case "$getservbyname_r_proto" in
"|0) try='struct servent* getservbyname_r(const char*, const char*, struct servent*, char*, int);'
./protochk "$extern_C $try" $hdrs && getservbyname_r_proto=S_CCSBI ;;
esac
case "$getservbyname_r_proto" in
"|0) try='int getservbyname_r(const char*, const char*, struct servent*, struct servent_data*);'
./protochk "$extern_C $try" $hdrs && getservbyname_r_proto=I_CCSD ;;
esac
case "$getservbyname_r_proto" in
"|0) d_getservbyname_r=undef
 getservbyname_r_proto=0
 echo "Disabling getservbyname_r, cannot determine prototype." >&4 ;;
* ) case "$getservbyname_r_proto" in
 REENTRANT_PROTO*) ;;
 *) getservbyname_r_proto="REENTRANT_PROTO_$getservbyname_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "getservbyname_r has no prototype, not using it." >&4 ;;
 esac
 d_getservbyname_r=undef
 getservbyname_r_proto=0
 ;;
esac
;;
*) getservbyname_r_proto=0
 ;;
esac
```

Found
 in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getservbyname_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_time.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:07:43  ram
?RCS: patch56: typo fix, sytem -> system
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:16:38  ram
?RCS: patch36: now uses new Typedef unit to compute type information (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X: Maybe <sys/types.h> should be included?
?X:INC: i_systypes
?MAKE:d_time timetype: Csym Setvar Findhdr Myread Typedef
?MAKE: -pick add $@ %<
?S:d_time:
?S: This
 variable conditionally defines the HAS_TIME symbol, which indicates
?S: that the time() routine exists.  The time() routine is normally
?S: provided on UNIX systems.
?S:.
?S:timetype:
?S: This variable holds the type returned by time(). It can be long,
?S: or time_t on BSD sites (in which case <sys/types.h> should be
?S: included). Anyway, the type Time_t should be used.
?S:.
?C:HAS_TIME (TIMER):
?C: This symbol, if defined, indicates that the time() routine exists.
?C:.
?C:Time_t (TIMETYPE):
?C: This symbol holds the type returned by time(). It can be long,
?C: or time_t on BSD sites (in which case <sys/types.h> should be
?C: included).
?C:.
?H:#$d_time HAS_TIME  /**/
?H:#define Time_t $timetype  /* Time type */
?H:.
?LINT:set d_time
: see if time exists
```

```
echo " "
if set time val -f d_time; eval $csym; $val; then
 echo 'time() found.' >&4
 val="$define"
 set time_t timetype long stdio.h sys/types.h
 eval $typedef
 dflt="$timetype"
 echo " "
 rp="What type is returned by time() on this
 system?"
 . ./myread
 timetype="$ans"
else
 echo 'time() not found, hope that will do.' >&4
 val="$undef"
 timetype='int';
fi
set d_time
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_time.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorman3dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999-2000, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorman3dir.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorman3dir vendorman3direxp installvendorman3dir: man3dir Getfile \
 Oldconfig Setprefixvar Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorman3dir:
?S: This variable contains the name of the directory for man3
?S: pages.  It may have a ~ on the front.
?S: The standard distribution will put nothing in this directory.
?S: Vendors
```

```
 who distribute perl may wish to place their own
?S: man3 pages in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorman3direxp:
?S: This variable is the ~name expanded version of vendorman3dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorman3dir=''
?S:installvendorman3dir:
?S: This variable is really the same as vendorman3direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorman3dir
: Set the vendorman3dir variables
case "$vendorprefix" in
'') vendorman3dir=''
 vendorman3direxp=''
 ;;
*) : determine where vendor-supplied module manual pages go.
 case "$vendorman3dir" in
 '') dflt=`echo "$man3dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
 *) dflt=$vendorman3dir ;;
 esac
 case "$dflt" in
 '|' ') dflt=none ;;
 esac
 fn=nd~+
 rp='Pathname
 for the vendor-supplied manual section 3 pages?'
 . ./getfile
 vendorman3dir="$ans"
 vendorman3direxp="$ansexp"
 ;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorman3dir" = "X" && vendorman3dir=' '
prefixvar=vendorman3dir
. ./installprefix
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/vendorman3dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_dosuid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Tye McQueen <tye@metronet.com> added safe setuid script checks.
?RCS:
?RCS: $Log: d_dosuid.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:33:03  ram
?RCS: patch61: moved unit to TOP via a ?Y: layout directive
?RCS: patch61: tell them /dev/fd is not about floppy disks
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:12:08  ram
?RCS: patch36: added checks for secure setuid scripts (Tye McQueen)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:55  ram
?RCS: Baseline for
 dist 3.0 netwide release.
?RCS:
?MAKE:d_dosuid d_suidsafe: cat contains ls rm test Myread Setvar \
 Oldconfig Guess package hint patchlevel
?MAKE: -pick add $@ %<
?S:d_suidsafe:
?S: This variable conditionally defines SETUID_SCRIPTS_ARE_SECURE_NOW
?S: if setuid scripts can be secure.  This test looks in /dev/fd/.
?S:.
?S:d_dosuid:
?S: This variable conditionally defines the symbol DOSUID, which
?S: tells the C program that it should insert setuid emulation code
?S: on hosts which have setuid #! scripts disabled.
?S:.
?C:SETUID_SCRIPTS_ARE_SECURE_NOW:
?C: This symbol, if defined, indicates that the bug that prevents
?C: setuid scripts from being secure is not present in this kernel.
?C:.
?C:DOSUID:
?C: This symbol, if defined, indicates that the C program should
?C: check the script that it is executing for setuid/setgid bits, and
?C: attempt to emulate setuid/setgid on systems that have disabled
?C: setuid #! scripts because the kernel can't do it securely.
?C: It is up to the package
 designer to make sure that this emulation
?C: is done securely.  Among other things, it should do an fstat on
```

```
?C: the script it just opened to make sure it really is a setuid/setgid
?C: script, it should make sure the arguments passed correspond exactly
?C: to the argument on the #! line, and it should not trust any
?C: subprocesses to which it must pass the filename rather than the
?C: file descriptor of the script to be executed.
?C:.
?H:#$d_suidsafe SETUID_SCRIPTS_ARE_SECURE_NOW /**/
?H:#$d_dosuid DOSUID  /**/
?H:.
?Y:TOP
?F:!reflect
?LINT: set d_suidsafe
: see if setuid scripts can be secure
$cat <<EOM

Some kernels have a bug that prevents setuid #! scripts from being
secure.  Some sites have disabled setuid #! scripts because of this.

First let's decide if your kernel supports secure setuid #! scripts.
(If setuid #! scripts would be secure but have been disabled anyway,
don't say that they are secure if asked.)

EOM

val="$undef"
if $test -d /dev/fd; then
 echo "#!$ls" >reflect
 chmod
 +x,u+s reflect
 ./reflect >flect 2>&1
 if $contains "/dev/fd" flect >/dev/null; then
  echo "Congratulations, your kernel has secure setuid scripts!" >&4
  val="$define"
 else
  $cat <<EOM
If you are not sure if they are secure, I can check but I'll need a
username and password different from the one you are using right now.
If you don't have such a username or don't want me to test, simply
enter 'none'.

EOM
  rp='Other username to test security of setuid scripts with?'
  dflt='none'
  . ./myread
  case "$ans" in
  n|none)
   case "$d_suidsafe" in
   ") echo "I'll assume setuid scripts are *not* secure." >&4
```

```
    dflt=n;;
   "$undef")
    echo "Well, the $hint value is *not* secure." >&4
    dflt=n;;
   *) echo "Well, the $hint value *is* secure." >&4
    dflt=y;;
   esac
   ;;
  *)
   $rm -f reflect flect
   echo "#!$ls" >reflect
   chmod +x,u+s reflect
   echo >flect
   chmod a+w flect
   echo '"su" will (probably) prompt you for "$ans's password."
   su $ans -c './reflect
 >flect'
   if $contains "/dev/fd" flect >/dev/null; then
    echo "Okay, it looks like setuid scripts are secure." >&4
    dflt=y
   else
    echo "I don't think setuid scripts are secure." >&4
    dflt=n
   fi
   ;;
  esac
  rp='Does your kernel have *secure* setuid scripts?'
  . ./myread
  case "$ans" in
  [yY]*) val="$define";;
  *) val="$undef";;
  esac
 fi
else
 echo "I don't think setuid scripts are secure (no /dev/fd directory)." >&4
 echo "(That's for file descriptors, not floppy disks.)"
 val="$undef"
fi
set d_suidsafe
eval $setvar

$rm -f reflect flect

: now see if they want to do setuid emulation
if $test $patchlevel -lt 11; then
echo " "
val="$undef"
case "$d_suidsafe" in
```

```
"$define")
 val="$undef"
 echo "No need to emulate SUID scripts since they are secure here." >&4
 ;;
*)
 $cat <<EOM
Some systems have disabled setuid scripts, especially systems where
setuid scripts cannot be secure.  On systems where setuid scripts have
been disabled, the setuid/setgid bits on scripts are
 currently
useless.  It is possible for $package to detect those bits and emulate
setuid/setgid in a secure fashion.  This emulation will only work if
setuid scripts have been disabled in your kernel.

EOM
 case "$d_dosuid" in
 "$define") dflt=y ;;
 *) dflt=n ;;
 esac
 rp="Do you want to do setuid/setgid emulation?"
 . ./myread
 case "$ans" in
 [yY]*) val="$define";;
 *) val="$undef";;
 esac
 ;;
esac
set d_dosuid
eval $setvar
else
   case "$d_dosuid" in
 "$define")
 cat >&4 <<EOH

SUID emulation has been removed for 5.12
Please re-run Configure without -Dd_dosuid

EOH
 exit 1;
 ;;
   esac
   d_dosuid=undef
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_dosuid.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_mkstemp.U,v 3.0.1.1 1994/08/29 16:11:57 ram Exp $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_mkstemp.U,v $
?RCS:
?MAKE:d_mkstemp: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkstemp:
?S: This variable conditionally defines the HAS_MKSTEMP symbol, which
?S: indicates to the C program that the mkstemp() routine is available
?S: to exclusively create and open a uniquely named temporary file.
?S:.
?C:HAS_MKSTEMP :
?C: This symbol, if defined, indicates that the mkstemp routine is
?C: available to exclusively create and open a uniquely named
?C: temporary file.
?C:.
?H:#$d_mkstemp HAS_MKSTEMP  /**/
?H:.
?LINT:set d_mkstemp
: see if mkstemp exists
set mkstemp d_mkstemp
eval
 $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_mkstemp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: sizetype.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:32:10  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:sizetype: Myread Typedef
?MAKE: -pick add $@ %<
?S:sizetype:
?S: This variable defines sizetype to be something like size_t,
?S: unsigned long, or whatever type is used to declare length
?S: parameters for string functions.
?S:.
?C:Size_t:
?C: This symbol holds the type used to declare length parameters
?C: for string
 functions.  It is usually size_t, but may be
?C: unsigned long, int, etc.  It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Size_t $sizetype  /* length paramater for string functions */
?H:.
: see what type is used for size_t
set size_t sizetype 'unsigned int' stdio.h sys/types.h
eval $typedef
dflt="$sizetype"
echo " "
rp="What type is used for the length parameter for string functions?"
. ./myread
sizetype="$ans"
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/sizetype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endgrent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_endgrent_r endgrent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_grp extern_C
?MAKE: -pick add $@ %<
?S:d_endgrent_r:
```

```
?S: This variable conditionally defines the HAS_ENDGRENT_R symbol,
?S: which indicates to the C program that the endgrent_r()
?S: routine is available.
?S:.
?S:endgrent_r_proto:
?S: This variable encodes the prototype of endgrent_r.
?S: It is zero if d_endgrent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endgrent_r
?S: is defined.
?S:.
?C:HAS_ENDGRENT_R:
?C: This symbol, if defined, indicates that the endgrent_r routine
?C: is available to
 endgrent re-entrantly.
?C:.
?C:ENDGRENT_R_PROTO:
?C: This symbol encodes the prototype of endgrent_r.
?C: It is zero if d_endgrent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endgrent_r
?C: is defined.
?C:.
?H:#$d_endgrent_r HAS_ENDGRENT_R /**/
?H:#define ENDGRENT_R_PROTO $endgrent_r_proto /**/
?H:.
?T:try hdrs d_endgrent_r_proto
: see if endgrent_r exists
set endgrent_r d_endgrent_r
eval $inlibc
case "$d_endgrent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_grp grp.h"
 case "$d_endgrent_r_proto:$usethreads" in
 ":define") d_endgrent_r_proto=define
  set d_endgrent_r_proto endgrent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_endgrent_r_proto" in
 define)
 case "$endgrent_r_proto" in
 "|0) try='int endgrent_r(FILE**);'
 ./protochk "$extern_C $try" $hdrs && endgrent_r_proto=I_H ;;
 esac
 case "$endgrent_r_proto" in
 "|0) try='void endgrent_r(FILE**);'
 ./protochk "$extern_C $try" $hdrs && endgrent_r_proto=V_H ;;
 esac
 case "$endgrent_r_proto"
```

```
 in
 "|0) d_endgrent_r=undef
  endgrent_r_proto=0
  echo "Disabling endgrent_r, cannot determine prototype." >&4 ;;
 * ) case "$endgrent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) endgrent_r_proto="REENTRANT_PROTO_$endgrent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "endgrent_r has no prototype, not using it." >&4 ;;
  esac
  d_endgrent_r=undef
  endgrent_r_proto=0
  ;;
 esac
 ;;
*) endgrent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_endgrent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysun.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysun.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit looks wether <sys/un.h> is available or not
?X:
?MAKE:i_sysun: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysun:
```

```
?S: This variable conditionally defines I_SYS_UN, which indicates
?S: to the C program that it should include <sys/un.h> to get UNIX
?S: domain socket definitions.
?S:.
?C:I_SYS_UN:
?C: This symbol, if defined, indicates
 to the C program that it should
?C: include <sys/un.h> to get UNIX domain socket definitions.
?C:.
?H:#$i_sysun I_SYS_UN  /**/
?H:.
?LINT:set i_sysun
: see if this is a sys/un.h system
set sys/un.h i_sysun
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sysun.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_ustat.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_ustat: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_ustat:
?S: This variable conditionally defines the I_USTAT symbol, and indicates
?S: whether a C program should include <ustat.h>.
?S:.
?C:I_USTAT:
?C: This symbol, if defined, indicates that <ustat.h> exists and
?C: should be included.
?C:.
?H:#$i_ustat I_USTAT  /**/
?H:.
?LINT:set i_ustat
: see if this is a ustat.h system
set ustat.h i_ustat
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_ustat.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sgndchr.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:44:25  ram
?RCS: patch61: added a ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  14:00:24  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:16  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sgndchr: cat rm +cc +ccflags Setvar
?MAKE: -pick add $@ %<
?S:d_sgndchr:
?S: This variable conditionally defines the SIGNEDCHAR symbol, which
?S: indicates to the C program
 that signed characters are available.
?S:.
?C:SIGNEDCHAR:
?C: This symbol, if defined, indicates that characters are a signed type.
?C: If not defined, things declared as signed characters (and that make
?C: use of negative values) should probably be declared as shorts instead.
?C:.
?H:#$d_sgndchr SIGNEDCHAR /**/
?H:.
?F:!try
?LINT:set d_sgndchr
: check for signed chars
echo " "
echo "Checking to see if your C compiler can do signed chars..." >&4
$cat >try.c <<'EOCP'
int main()
{
 char c = 0;

 c--;
 exit(c >= 0);
```

```
}
EOCP
$cc $ccflags -o try try.c
if ./try; then
 val="$define"
 echo "It certainly can."
else
 val="$undef"
 echo "It can't.  I'll have to make some things type short."
fi
set d_sgndchr
eval $setvar
$rm -f try*
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sgndchr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_voidsig.U,v 3.0.1.3 1995/05/12 12:12:46 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_voidsig.U,v $
?RCS: Revision 3.0.1.3  1995/05/12  12:12:46  ram
?RCS: patch54: made cppflags dependency optional
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:20:35  ram
?RCS: patch32: now sets signal_t only once d_voidsig is known (WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:59:54  ram
?RCS: patch30: now properly sets signal_t when re-using previous value
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_voidsig
 signal_t: rm contains cppstdin cppminus +cppflags test Myread \
 Oldconfig Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_voidsig:
?S: This variable conditionally defines VOIDSIG if this system
```

```
?S: declares "void (*signal(...))()" in signal.h.  The old way was to
?S: declare it as "int (*signal(...))()".
?S:.
?S:signal_t:
?S: This variable holds the type of the signal handler (void or int).
?S:.
?C:VOIDSIG:
?C: This symbol is defined if this system declares "void (*signal(...))()" in
?C: signal.h.  The old way was to declare it as "int (*signal(...))()".  It
?C: is up to the package author to declare things correctly based on the
?C: symbol.
?C:.
?C:Signal_t (SIGNAL_T):
?C: This symbol's value is either "void" or "int", corresponding to the
?C: appropriate return type of a signal handler.  Thus, you can declare
?C: a signal handler using "Signal_t (*handler)()", and define the
?C: handler using "Signal_t handler(sig)".
?C:.
?H:#$d_voidsig VOIDSIG /**/
?H:#define
 Signal_t $signal_t /* Signal handler's return type */
?H:.
?T:xxx
?LINT:set d_voidsig
: see if signal is declared as pointer to function returning int or void
echo " "
xxx=`./findhdr signal.h`
$test "$xxx" && $cppstdin $cppminus $cppflags < $xxx >$$.tmp 2>/dev/null
if $contains 'int.*\*[  ]*signal' $$.tmp >/dev/null 2>&1 ; then
 echo "You have int (*signal())() instead of void." >&4
 val="$undef"
elif $contains 'void.*\*[  ]*signal' $$.tmp >/dev/null 2>&1 ; then
 echo "You have void (*signal())()." >&4
 val="$define"
elif $contains 'extern[  ]*[(\*]*signal' $$.tmp >/dev/null 2>&1 ; then
 echo "You have int (*signal())() instead of void." >&4
 val="$undef"
?X: This next test is kind of sloppy, but it catches Linux
?X: which has a
?X:  typedef void (*__sighandler_t)  (int)  ;
?X: A better fix would be to compile a C program with the proper
?X: prototype, but since nearly everyone uses void, we'll just go with
?X: this.
elif $contains 'void.*\*.*sig' $$.tmp >/dev/null 2>&1 ; then
 echo "You
 have void (*signal())()." >&4
 val="$define"
else
```

```
 case "$d_voidsig" in
 ")
 echo "I can't determine whether signal handler returns void or int..." >&4
  dflt=void
  rp="What type does your signal handler return?"
  . ./myread
  case "$ans" in
  v*) val="$define";;
  *) val="$undef";;
  esac;;
 "$define")
  echo "As you already told me, signal handler returns void." >&4
  val="$define"
  ;;
 *) echo "As you already told me, signal handler returns int." >&4
  val="$undef"
  ;;
 esac
fi
set d_voidsig
eval $setvar
case "$d_voidsig" in
"$define") signal_t="void";;
*) signal_t="int";;
esac
$rm -f $$.tmp
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_voidsig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libnm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libnm.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:08:26  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:01  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?MAKE:libnm: test Loc libpth _a
?MAKE: -pick add $@ %<
?S:libnm:
?S: This variable contains the argument to pass to the loader in order
?S: to get the new math library routines.  If there is no new math
?S: library, it is null.
?S:.
?T:ans
?O:
 use libswanted='-lnm' instead (see libs.U).
: see if we should include -lnm
echo " "
if $test -r /usr/lib/libnm$_a || $test -r /usr/local/lib/libnm$_a ; then
 echo "New math library found." >&4
 libnm='-lnm'
else
 ans=`./loc libnm$_a x $libpth`
 case "$ans" in
 x)
  echo "No nm library found--the normal math library will have to do." >&4
  libnm=''
  ;;
 *)
  echo "New math library found in $ans." >&4
  libnm="$ans"
  ;;
 esac
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/libnm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_localeconv_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_localeconv_l:
?S: This variable conditionally defines the HAS_LOCALECONV_L symbol, which
?S: indicates to the C program that the localeconv_l() routine is available.
?S:.
```

```
?C:HAS_LOCALECONV_L:
?C: This symbol, if defined, indicates that the localeconv_l routine is
?C: available to query certain information about a locale.
?C:.
?H:#$d_localeconv_l HAS_LOCALECONV_L  /**/
?H:.
?LINT:set d_localeconv_l
: see if localeconv_l exists
set localeconv_l d_localeconv_l
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_localeconv_l.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setgrent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_setgrent_r setgrent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_grp extern_C
?MAKE: -pick add $@ %<
?S:d_setgrent_r:
?S: This variable conditionally defines the HAS_SETGRENT_R symbol,
?S: which indicates to the C program that the setgrent_r()
?S: routine is available.
?S:.
?S:setgrent_r_proto:
?S: This variable encodes the prototype of setgrent_r.
?S: It is zero if d_setgrent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setgrent_r
?S: is defined.
?S:.
?C:HAS_SETGRENT_R:
?C: This symbol, if defined, indicates that the setgrent_r routine
?C: is available to
 setgrent re-entrantly.
?C:.
?C:SETGRENT_R_PROTO:
?C: This symbol encodes the prototype of setgrent_r.
?C: It is zero if d_setgrent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setgrent_r
?C: is defined.
```

```
?C:.
?H:#$d_setgrent_r HAS_SETGRENT_R /**/
?H:#define SETGRENT_R_PROTO $setgrent_r_proto /**/
?H:.
?T:try hdrs d_setgrent_r_proto
: see if setgrent_r exists
set setgrent_r d_setgrent_r
eval $inlibc
case "$d_setgrent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_grp grp.h"
 case "$d_setgrent_r_proto:$usethreads" in
 ":define") d_setgrent_r_proto=define
  set d_setgrent_r_proto setgrent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_setgrent_r_proto" in
 define)
 case "$setgrent_r_proto" in
 "|0) try='int setgrent_r(FILE**);'
 ./protochk "$extern_C $try" $hdrs && setgrent_r_proto=I_H ;;
 esac
 case "$setgrent_r_proto" in
 "|0) try='void setgrent_r(FILE**);'
 ./protochk "$extern_C $try" $hdrs && setgrent_r_proto=V_H ;;
 esac
 case "$setgrent_r_proto"
 in
 "|0) d_setgrent_r=undef
  setgrent_r_proto=0
  echo "Disabling setgrent_r, cannot determine prototype." >&4 ;;
 * ) case "$setgrent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) setgrent_r_proto="REENTRANT_PROTO_$setgrent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "setgrent_r has no prototype, not using it." >&4 ;;
  esac
  d_setgrent_r=undef
  setgrent_r_proto=0
  ;;
 esac
 ;;
*) setgrent_r_proto=0
```

```
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_setgrent_r.U
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```
?RCS: $Id$
?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_modfl d_modflproto: Inlibc Compile Hasproto cat \
 test ccflags uselongdouble \
 d_sqrtl d_aintl d_copysignl d_ilogbl d_scalbnl d_frexpl d_ldexpl \
 d_truncl
?MAKE: -pick add $@ %<
?S:d_modfl:
?S: This variable conditionally defines the HAS_MODFL symbol, which
?S: indicates to the C program that the modfl() routine is available.
?S:.
?S:d_modflproto:
?S: This symbol, if defined, indicates that the system provides
?S: a prototype for the modfl() function.  Otherwise, it is up
?S: to the program to supply one.  C99 says it should be
?S:  long double modfl(long double, long double *);
?S:.
?C:HAS_MODFL:
?C: This symbol, if defined, indicates that the modfl routine is
?C: available to split a long double
 x into a fractional part f and
?C: an integer part i such that |f| < 1.0 and (f + i) = x.
?C:.
?C:HAS_MODFL_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the modfl() function.  Otherwise, it is up
?C: to the program to supply one.
?C:.
?H:#$d_modfl HAS_MODFL  /**/
?H:#$d_modflproto HAS_MODFL_PROTO  /**/
?H:.
?T:message
?LINT:set d_modfl
?LINT:set d_modflproto
?LINT:change ccflags
```

```
: see if modfl exists
set modfl d_modfl
eval $inlibc

: see if prototype for modfl is available
echo " "
set d_modflproto modfl define math.h
eval $hasproto

if $test "$uselongdouble" = "$define"; then
  message=""
  if $test "$d_sqrtl" != "$define"; then
 message="$message sqrtl"
  fi
  if $test "$d_modfl" != "$define"; then
 if $test "$d_truncl:$d_copysignl" = "$define:$define"; then
    echo "You have both truncl and copysignl, so I can emulate modfl."
 else
    if $test "$d_aintl:$d_copysignl" = "$define:$define"; then
  echo "You have both aintl
 and copysignl, so I can emulate modfl."
    else
  message="$message modfl"
    fi
 fi
  fi
  if $test "$d_frexpl" != "$define"; then
 if $test "$d_ilogbl:$d_scalbnl" = "$define:$define"; then
    echo "You have both ilogbl and scalbnl, so I can emulate frexpl."
 else
    message="$message frexpl"
 fi
  fi
  if $test "$d_ldexpl" != "$define"; then
 message="$message ldexpl"
  fi

  if $test "$message" != ""; then
 $cat <<EOM >&4

*** You requested the use of long doubles but you do not seem to have
*** the following mathematical functions needed for long double support:
***    $message
*** Please rerun Configure without -Duselongdouble and/or -Dusemorebits.
*** Cannot continue, aborting.

EOM
```

```
 exit 1
   fi
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_modfl.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_wcrtomb: Inlibc
?MAKE: -pick add $@ %<
?S:d_wcrtomb:
?S: This variable conditionally defines the HAS_WCRTOMB symbol if the
?S: wcrtomb() routine is available to be used to convert a wide character
?S: into a multi-byte character.
?S:.
?C:HAS_WCRTOMB:
?C: This symbol, if defined, indicates that the wcrtomb routine is
?C: available to convert a wide character into a multi-byte character.
?C:.
?H:#$d_wcrtomb HAS_WCRTOMB /**/
?H:.
?LINT: set d_wcrtomb
: see if wcrtomb exists
set wcrtomb d_wcrtomb
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_wcrtomb.U
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```
?RCS: $Id: installstyle.U,v 1.2 1999/07/13 14:56:06 doughera Exp $
?RCS:
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```

```
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: installstyle.U,v $
?RCS: Revision 1.2  1999/07/13 14:56:06  doughera
?RCS: Fix dependencies.  Add more comments.
?RCS:
?RCS: Revision 1.1  1999/07/12 17:30:41  doughera
?RCS: Initial revision
?RCS:
?RCS:
?MAKE:installstyle: prefix Myread
?MAKE: -pick add $@ %<
?X: Myread dependence is for dflt.
?S:installstyle:
?S: This variable describes the "style" of the perl installation.
?S: This is intended to be useful for tools that need to
?S: manipulate entire perl
 distributions.  Perl itself doesn't use
?S: this to find its libraries -- the library directories are
?S: stored directly in Config.pm.  Currently, there are only two
?S: styles:  "lib" and "lib/perl5".  The default library locations
?S: (e.g. privlib, sitelib) are either $prefix/lib or
?S: $prefix/lib/perl5.  The former is useful if $prefix is a
?S: directory dedicated to perl (e.g. /opt/perl), while the latter
?S: is useful if $prefix is shared by many packages, e.g. if
?S: $prefix=/usr/local.
?S:
?S: Unfortunately, while this "style" variable is used to set
?S: defaults for all three directory hierarchies (core, vendor, and
?S: site), there is no guarantee that the same style is actually
?S: appropriate for all those directories.  For example, $prefix
?S: might be /opt/perl, but $siteprefix might be /usr/local.
?S: (Perhaps, in retrospect, the "lib" style should never have been
?S: supported, but it did seem like a nice idea at the time.)
?S:
?S: The situation is even less clear for
 tools such as MakeMaker
?S: that can be used to install additional modules into
?S: non-standard places.  For example, if a user intends to install
?S: a module into a private directory (perhaps by setting PREFIX on
?S: the Makefile.PL command line), then there is no reason to
?S: assume that the Configure-time $installstyle setting will be
?S: relevant for that PREFIX.
?S:
?S: This may later be extended to include other information, so
?S: be careful with pattern-matching on the results.
?S:
?S: For compatibility with perl5.005 and earlier, the default
```

```
?S: setting is based on whether or not $prefix contains the string
?S: "perl".
?S:.
: determine installation style
: For now, try to deduce it from prefix unless it is already set.
: Reproduce behavior of 5.005 and earlier, maybe drop that in 5.7.
case "$installstyle" in
") case "$prefix" in
  *perl*) dflt='lib';;
  *) dflt='lib/perl5' ;;
 esac
 ;;
*) dflt="$installstyle" ;;
esac
: Probably not worth prompting for this since we prompt
 for all
: the directories individually, and the prompt would be too long and
: confusing anyway.
installstyle=$dflt
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/installstyle.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_dirent.U,v $
?RCS: Revision 3.0.1.4  1994/10/29  16:20:01  ram
?RCS: patch36: failed scanning for 'd_namlen' with missing <dirent.h> (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:01:25  ram
?RCS: patch30: added direntrytype for hints, merely for NeXT (ADO)
?RCS: patch30: now checks for both struct dirent and direct (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:22:37  ram
?RCS: patch27: new variable direntrytype for proper type setting (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24
```

```
 14:11:15  ram
?RCS: patch16: added new Direntry_t pseudo-type for directory entries
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit looks whether there is a dirent system or not
?X:
?MAKE:i_dirent d_dirnamlen direntrytype: test contains Setvar \
 Myread Findhdr cppstdin cppflags cppminus rm_try
?MAKE: -pick add $@ %<
?S:i_dirent:
?S: This variable conditionally defines I_DIRENT, which indicates
?S: to the C program that it should include <dirent.h>.
?S:.
?S:d_dirnamlen:
?S: This variable conditionally defines DIRNAMLEN, which indicates
?S: to the C program that the length of directory entry names is
?S: provided by a d_namelen field.
?S:.
?S:direntrytype:
?S: This symbol is set to 'struct direct' or 'struct dirent' depending on
?S: whether dirent is available or not. You should use this pseudo type to
?S: portably declare your directory entries.
?S:.
?C:I_DIRENT:
?C: This symbol, if defined, indicates to the C program
 that it should
?C: include <dirent.h>. Using this symbol also triggers the definition
?C: of the Direntry_t define which ends up being 'struct dirent' or
?C: 'struct direct' depending on the availability of <dirent.h>.
?C:.
?C:DIRNAMLEN:
?C: This symbol, if defined, indicates to the C program that the length
?C: of directory entry names is provided by a d_namlen field.  Otherwise
?C: you need to do strlen() on the d_name field.
?C:.
?C:Direntry_t:
?C: This symbol is set to 'struct direct' or 'struct dirent' depending on
?C: whether dirent is available or not. You should use this pseudo type to
?C: portably declare your directory entries.
?C:.
?H:#$i_dirent I_DIRENT  /**/
?H:#$d_dirnamlen DIRNAMLEN /**/
?H:?%<:@if I_DIRENT && Direntry_t
?H:?%<:#define Direntry_t $direntrytype
?H:?%<:@end
```

```
?H:.
?T:xinc guess1 guess2
?LINT:set i_dirent d_dirnamlen
: see if this is a dirent system
echo " "
if xinc=`./findhdr dirent.h`; $test "$xinc"; then
 val="$define"
 echo "<dirent.h> found." >&4
else
 val="$undef"
 if
 xinc=`./findhdr sys/dir.h`; $test "$xinc"; then
  echo "<sys/dir.h> found." >&4
  echo " "
 else
  xinc=`./findhdr sys/ndir.h`
 fi
 echo "<dirent.h> NOT found." >&4
fi
set i_dirent
eval $setvar

?X: Use struct dirent or struct direct?   If we're using dirent.h,
?X: it's probably struct dirent, but apparently not always.
?X: Assume $xinc still contains the name of the header file we're using.
@if direntrytype || Direntry_t
: Look for type of directory structure.
echo " "
$cppstdin $cppflags $cppminus < "$xinc" > try.c

case "$direntrytype" in
"|' ')
 case "$i_dirent" in
 $define) guess1='struct dirent' ;;
 *) guess1='struct direct'  ;;
 esac
 ;;
*) guess1="$direntrytype"
 ;;
esac

case "$guess1" in
'struct dirent') guess2='struct direct' ;;
*) guess2='struct dirent' ;;
esac

if $contains "$guess1" try.c >/dev/null 2>&1; then
 direntrytype="$guess1"
```

```
 echo "Your directory entries are $direntrytype." >&4
elif $contains "$guess2" try.c >/dev/null 2>&1; then
 direntrytype="$guess2"
 echo
 "Your directory entries seem to be $direntrytype." >&4
else
 echo "I don't recognize your system's directory entries." >&4
 rp="What type is used for directory entries on this system?"
 dflt="$guess1"
 . ./myread
 direntrytype="$ans"
fi
$rm_try

@end

@if d_dirnamlen || DIRNAMLEN
: see if the directory entry stores field length
echo " "
$cppstdin $cppflags $cppminus < "$xinc" > try.c
if $contains 'd_namlen' try.c >/dev/null 2>&1; then
 echo "Good, your directory entry keeps length information in d_namlen." >&4
 val="$define"
else
 echo "Your directory entry does not know about the d_namlen field." >&4
 val="$undef"
fi
set d_dirnamlen
eval $setvar
$rm_try

@end
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_dirent.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_lrintl: Inlibc
?MAKE: -pick add $@ %<
?S:d_lrintl:
?S: This variable conditionally defines the HAS_LRINTL symbol, which
?S: indicates to the C program that the lrintl() routine is available
?S: to return the integral value closest to a long double (according
?S: to the current rounding mode).
```

```
?S:.
?C:HAS_LRINTL:
?C: This symbol, if defined, indicates that the lrintl routine is
?C: available to return the integral value closest to a long double
?C: (according to the current rounding mode).
?C:.
?H:#$d_lrintl HAS_LRINTL  /**/
?H:.
?LINT:set d_lrintl
: see if lrintl exists
set lrintl d_lrintl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_lrintl.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Unix.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:20:06  ram
?RCS: patch61: created
?RCS:
?X:
?X: The purpose of this unit is to define things that are common across all
?X: known UNIX platforms. If Configure is ported/used on a non-UNIX
?X: environment, then some of the following variables can be redefined in hint
?X: files.
?X:
?MAKE:Unix _a _o firstmakefile archobjs: Oldconfig
?MAKE: -pick add $@ %<
?S:_a (lib_ext):
?S: This variable defines the extension
 used for ordinary libraries.
?S: For unix, it is '.a'.  The '.' is included.  Other possible
?S: values include '.lib'.
?S:.
?S:_o (obj_ext):
```

```
?S: This variable defines the extension used for object files.
?S: For unix, it is '.o'.  The '.' is included.  Other possible
?S: values include '.obj'.
?S:.
?S:firstmakefile:
?S: This variable defines the first file searched by make.  On unix,
?S: it is makefile (then Makefile).  On case-insensitive systems,
?S: it might be something else.  This is only used to deal with
?S: convoluted make depend tricks.
?S:.
?S:archobjs:
?S: This variable defines any additional objects that must be linked
?S: in with the program on this architecture.  On unix, it is usually
?S: empty.  It is typically used to include emulations of unix calls
?S: or other facilities.  For perl on OS/2, for example, this would
?S: include os2/os2.obj.
?S:.
?INIT:: Extra object files, if any, needed on this platform.
?INIT:archobjs=''
: Define several unixisms.
: Hints files
 or command line option can be used to override them.
case "$_a" in
'') _a='.a';;
esac
case "$_o" in
'') _o='.o';;
esac

@if firstmakefile
: Which makefile gets called first.  This is used by make depend.
case "$firstmakefile" in
'') firstmakefile='makefile';;
esac

@end
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Unix.U
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```
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?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
?MAKE:d_futimes: Compile cat rm_try run
?MAKE: -pick add $@ %<
?S:d_futimes:
?S: This variable conditionally defines the HAS_FUTIMES symbol, which
?S: indicates to the C program that the futimes() routine is available.
?S:.
?C:HAS_FUTIMES:
?C: This symbol, if defined, indicates that the futimes routine is
?C: available to change file descriptor time stamps with struct timevals.
?C:.
?H:#$d_futimes HAS_FUTIMES  /**/
?H:.
?T:rc
?F:!try
: check for a working futimes
d_futimes="$undef"
echo " "
echo "Checking if you have a working futimes()" >&4
$cat >try.c <<EOCP
#include <stdio.h>
#include <stdlib.h>
#include <sys/time.h>
#include <errno.h>
#include <fcntl.h>
#include <stdlib.h>

int main ()
{
   int fd,
 rv;
   fd = open ("try.c", O_RDWR);
   if (-1 == fd) exit (1);
   rv = futimes (fd, NULL);
   exit (rv == -1 ? errno : 0);
}
EOCP
set try
if eval $compile; then
   `$run ./try`
   rc=$?
   case "$rc" in
 0)  echo "Yes, you have" >&4
     d_futimes="$define"
     ;;
 *)  echo "No, you have futimes, but it isn't working ($rc) (probably harmless)" >&4
     ;;
   esac
```

```
else
   echo "No, it does not (probably harmless)" >&4
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_futimes.U
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```
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_time.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit finds which "time" include to use. If 'timezone' is used by the
?X: program, we also try to find which header should be included. Eventually,
?X: we look for <sys/select.h> if I_SYSSELECT is used, to get struct timeval.
?X:
?MAKE:i_time i_systime i_systimek timeincl: cat cc ccflags contains rm_try \
 echo n c +i_sysselct Findhdr
?MAKE: -pick add $@ %<
?S:i_time:
?S: This
 variable conditionally defines I_TIME, which indicates
?S: to the C program that it should include <time.h>.
?S:.
?S:i_systime:
?S: This variable conditionally defines I_SYS_TIME, which indicates
?S: to the C program that it should include <sys/time.h>.
?S:.
?S:i_systimek:
?S: This variable conditionally defines I_SYS_TIME_KERNEL, which
?S: indicates to the C program that it should include <sys/time.h>
?S: with KERNEL defined.
?S:.
?S:timeincl:
?S: This variable holds the full path of the included time header(s).
```

```
?S:.
?C:I_TIME (USE_TIME_H):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <time.h>.
?C:.
?C:I_SYS_TIME (I_SYSTIME USE_SYS_TIME_H NO_TIME_WITH_SYS_TIME):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/time.h>.
?C:.
?C:I_SYS_TIME_KERNEL (I_SYSTIMEKERNEL):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/time.h> with KERNEL defined.
?C:.
?H:#$i_time I_TIME  /**/
?H:#$i_systime
 I_SYS_TIME  /**/
?H:#$i_systimek I_SYS_TIME_KERNEL  /**/
?H:.
?W::timezone
?T:xselect flags sysselect s_timeval s_timezone
?LINT:change i_sysselct
: see if we should include time.h, sys/time.h, or both
echo " "
echo "Testing to see if we should include <time.h>, <sys/time.h> or both." >&4
$echo $n "I'm now running the test program...$c"
$cat >try.c <<'EOCP'
#include <sys/types.h>
#ifdef I_TIME
#include <time.h>
#endif
#ifdef I_SYSTIME
#ifdef SYSTIMEKERNEL
#define KERNEL
#endif
#include <sys/time.h>
#endif
#ifdef I_SYSSELECT
#include <sys/select.h>
#endif
int main()
{
 struct tm foo;
#ifdef S_TIMEVAL
 struct timeval bar;
#endif
#ifdef S_TIMEZONE
 struct timezone tzp;
#endif
```

```
 if (foo.tm_sec == foo.tm_sec)
  exit(0);
#ifdef S_TIMEVAL
 if (bar.tv_sec == bar.tv_sec)
  exit(0);
#endif
 exit(1);
}
EOCP
flags=''
@if I_SYSSELECT
if $contains 'timeval.*{' `./findhdr sys/select.h` >/dev/null 2>&1; then
 xselect='-DI_SYSSELECT'
else
 xselect=''
fi
@end
@if timezone
for s_timezone
 in '-DS_TIMEZONE' ''; do
@else
s_timezone=''
@end
?X: Every package is given a try with 'struct timeval'
@if I_SYSSELECT
for sysselect in $xselect ''; do
@else
sysselect=''
@end
for s_timeval in '-DS_TIMEVAL' ''; do
for i_systimek in '' '-DSYSTIMEKERNEL'; do
for i_time in '' '-DI_TIME'; do
for i_systime in '-DI_SYSTIME' ''; do
 case "$flags" in
 '') $echo $n ".$c"
  if $cc $ccflags \
  $i_time $i_systime $i_systimek $sysselect $s_timeval $s_timezone \
  -o try try.c >/dev/null 2>&1 ; then
   set X $i_time $i_systime $i_systimek $sysselect $s_timeval
   shift
   flags="$*"
   echo " "
   $echo $n "Succeeded with $flags$c"
  fi
  ;;
 esac
done
done
```

```
done
done
@if I_SYSSELECT
done
@end
@if timezone
done
@end
timeincl="
echo " "
case "$flags" in
*SYSTIMEKERNEL*) i_systimek="$define"
 timeincl=`./findhdr sys/time.h`
 echo "We'll include <sys/time.h> with KERNEL defined." >&4;;
*) i_systimek="$undef";;
esac
case "$flags" in
*I_TIME*) i_time="$define"
 timeincl=`./findhdr time.h`" $timeincl"
 echo
 "We'll include <time.h>." >&4;;
*) i_time="$undef";;
esac
case "$flags" in
*I_SYSTIME*) i_systime="$define"
 timeincl=`./findhdr sys/time.h`" $timeincl"
 echo "We'll include <sys/time.h>." >&4;;
*) i_systime="$undef";;
esac
@if I_SYSSELECT
case "$flags" in
*I_SYSSELECT*) i_sysselct="$define"
 timeincl=`./findhdr sys/select.h`" $timeincl"
 echo "We'll also include <sys/select.h> to get struct timeval." >&4;;
*) case "$i_sysselct" in
 ") i_sysselct="$undef";;
 esac
esac
@end
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_time.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
```

```
?RCS: Copyright (c) 1998, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?X:
?X: Useless unit dropped.  Use randfunc instead.
?X:
?LINT:empty
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/randbits.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: uidtype.U,v $
?RCS: Revision 3.0.1.3  1994/08/29  16:33:25  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20  07:09:36  ram
?RCS: patch30: comment for uidtype referred to the obsoleted symbol
?RCS:
?RCS: Revision 3.0.1.1  1994/05/13  15:28:27  ram
?RCS: patch27: made conform to its gidtype.U companion
?RCS: patch27: question now explicitly mentions getuid()
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:56  ram
?RCS: Baseline for dist
 3.0 netwide release.
?RCS:
?MAKE:uidtype: Myread Typedef Findhdr
?MAKE: -pick add $@ %<
?S:uidtype:
?S: This variable defines Uid_t to be something like uid_t, int,
?S: ushort, or whatever type is used to declare user ids in the kernel.
?S:.
```

```
?C:Uid_t (UIDTYPE):
?C: This symbol holds the type used to declare user ids in the kernel.
?C: It can be int, ushort, uid_t, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Uid_t $uidtype  /* UID type */
?H:.
?T:xxx
: see what type uids are declared as in the kernel
set uid_t uidtype xxx stdio.h sys/types.h
eval $typedef
case "$uidtype" in
xxx)
 xxx=`./findhdr sys/user.h`
 set `grep '_ruid;' "$xxx" 2>/dev/null` unsigned short
 case $1 in
 unsigned) dflt="$1 $2" ;;
 *) dflt="$1" ;;
 esac
 ;;
*) dflt="$uidtype";;
esac
echo " "
rp="What is the type for user ids returned by getuid()?"
. ./myread
uidtype="$ans"
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/uidtype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_stdlib.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_stdlib.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_stdlib: Nothing
?MAKE: -pick add $@ %<
```

```
?S:i_stdlib:
?S: This variable unconditionally defines the I_STDLIB symbol.
?S:.
?C:I_STDLIB:
?C: This symbol is always defined, indicating that <stdlib.h> exists
?C: and should be included.
?C:.
?H:#define I_STDLIB  /**/
?H:.
: stub, used only to satisfy other units
i_stdlib='define'
```

Found in
 path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_stdlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setpwent.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_setpwent.U,v $
?RCS:
?MAKE:d_setpwent: Inlibc
?MAKE: -pick add $@ %<
?S:d_setpwent:
?S: This variable conditionally defines the HAS_SETPWENT symbol, which
?S: indicates to the C program that the setpwent() routine is available
?S: for initializing sequential access to the passwd database.
?S:.
?C:HAS_SETPWENT:
?C: This symbol, if defined, indicates that the setpwent routine is
?C: available for initializing sequential access of the passwd database.
?C:.
?H:#$d_setpwent HAS_SETPWENT  /**/
?H:.
?LINT:set d_setpwent
: see if setpwent exists
set setpwent d_setpwent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_setpwent.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Cygnus Support
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Tom Tromey <tromey@cygnus.com>
?RCS:
?RCS: $Log: src.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:23:54  ram
?RCS: patch61: created
?RCS:
?MAKE:src +rsrc: Options package contains
?MAKE: -pick add $@ %<
?Y:TOP
?S:src (srcdir):
?S: This variable holds the (possibly relative) path of the package source.
?S: It is up to the Makefile to use this variable and set VPATH accordingly
?S: to find the sources remotely.  Use $pkgsrc to have an absolute path.
?S:.
?S:rsrc
 (relsrcdir):
?S: This variable holds a potentially relative path to the package
?S: source.  The contents are correct for the configuration environment,
?S: i.e. there might be an extra .. prepended to get out of the UU dir.
?S: Configure units should use this, not the src variable.
?S:.
: Find the path to the source tree
case "$src" in
") case "$0" in
   */*) src=`echo $0 | sed -e 's%/[^/][^/]*$%%'`
        case "$src" in
  /*) ;;
  .) ;;
        *) src=`cd ../$src && pwd` ;;
  esac
        ;;
   *)   src='.';;
   esac;;
esac
case "$src" in
```

```
") src=/
 rsrc=/
 ;;
/*) rsrc="$src";;
*) rsrc="../$src";;
esac
?X:
?X: Now check whether we have found the right source tree (i.e. the one for the
?X: package we're about to configure). The original unit from Tom Tromey forced
?X: the user to pick a unique file from his distribution, and we were merely
?X: checking the existence of that file. I prefer to rely on Configure (which
?X: we know *is* present since this unit is
 part of it!) and look for the
?X: definition of the package variable, making sure it's the same as ours.
?X: If it matches, we know we found the right source tree. -- RAM, 15/03/96
?X:
if test -f $rsrc/Configure && \
 $contains "^package='$package'\$" $rsrc/Configure >/dev/null 2>&1
then
  : found it, so we are ok.
else
?X: Otherwise try "." and up to 4 parent directories...
?X: Note that we prepend a ".." to get out of the configuration environment.
 rsrc="
 for src in . .. ../.. ../../.. ../../../..; do
  if test -f ../$src/Configure && \
   $contains "^package=$package$" ../$src/Configure >/dev/null 2>&1
  then
   rsrc=../$src
   break
  fi
 done
fi
case "$rsrc" in
")
 cat <<EOM >&4

Sorry, I can't seem to locate the source dir for $package.  Please start
Configure with an explicit path -- i.e. /some/path/Configure.

EOM
 exit 1
 ;;
?X: Don't echo anything if the sources are in . -- they should know already ;-)
?X: In that case, rsrc is ../. since we lookup from within UU
../.) rsrc='..';;
*)
 echo
```

```
 " "
 echo "Sources for $package found in \"$src\"." >&4
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/src.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_havetlib.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_havetlib.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:36:31  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: likewise for .o replaced by $_o
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:44:06  ram
?RCS: patch23: added AIX support to accept shared lib stub as termlib (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_havetlib termlib: cat contains Myread Loc
 Filexp Oldconfig libpth \
 test uname _a _o
?MAKE: -pick add $@ %<
?S:d_havetlib:
?S: This variable conditionally defines the HAS_TERMLIB symbol, which
?S: indicates to the C program that termlib-style routines are available.
?S:.
?S:termlib:
?S: This variable contains the argument to pass to the loader to get
?S: termlib-style routines.  It is up to the Makefile.SH to make sure
?S: the value gets to the right command.  Note that on many systems the
?S: termlib routines are emulated by the curses or terminfo library.
?S:.
?C:HAS_TERMLIB (HAVETERMLIB):
?C: This symbol, when defined, indicates that termlib-style routines
?C: are available.  There is nothing to include.
```

```
?C:.
?H:#$d_havetlib HAS_TERMLIB /**/
?H:.
?T:xxx
: where do we get termlib routines from
echo " "
xxx=`./loc libcurses$_a x $libpth`
case "$xxx" in
/*)
 ar t $xxx >grimble
 if $contains tputs$_o grimble >/dev/null 2>&1; then
  termlib='-lcurses'
  d_havetlib="$define"
  echo "Terminfo library found." >&4
 elif $test "x`$uname
 2>/dev/null`" = xAIX; then
  # Ok, do the AIX shr.o fun thing
  /usr/ccs/bin/nm -en $xxx 2>/dev/null >grimble
  if $contains '^tputs .*|extern|' grimble >/dev/null 2>&1; then
   termlib='-lcurses'
   d_havetlib="$define"
   echo "AIX Terminfo library found." >&4
  else
   xxx=x
  fi
 else
  xxx=x
 fi
 rm -f grimble
 ;;
esac
case "$xxx" in
x)
 xxx=`./loc libtermlib$_a x $libpth`
 case "$xxx" in
 /usr/lib*|/lib*)
  termlib='-ltermlib'
  d_havetlib="$define"
  echo "Termlib library found." >&4
  ;;
 /*)
  termlib="$xxx"
  d_havetlib="$define"
  echo "Termlib library found." >&4
  ;;
 *)
  xxx=`./loc libtermcap$_a x $libpth`
  case "$xxx" in
```

```
  /usr/lib*|/lib*)
   termlib='-ltermcap'
   d_havetlib="$define"
   echo "Termcap library found." >&4
   ;;
  /*)
   termlib="$xxx"
   d_havetlib="$define"
   echo "Termcap library found." >&4
   ;;
  *)
   case "$termlib" in
   ")
    dflt=y
rp="Your system appears to NOT have termlib-style routines. Is this true?"
    . ./myread
    case "$ans"
 in
    n*|f*) d_havetlib="$define"
     $cat <<'EOM'
Then where are the termlib-style routines kept? Specify either -llibname
or a full pathname (~name ok).

EOM
     dflt="
     rp='Specify termlib path:'
     . ./myread
     termlib=`./filexp $ans`
     ;;
    *)
     d_havetlib="$undef"
     termlib="
     echo "You will have to play around with term.c then." >&4
     ;;
    esac
   echo " ";;
   *)  echo "You said termlib was $termlib before." >&4;;
   esac;;
  esac;;
 esac;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_havetlib.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: i_memory.U 1 2006-08-24 12:32:52Z rmanfredi $

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_memory.U,v $
?RCS: Revision 3.0.1.3  1994/06/20  07:01:55  ram
?RCS: patch30: cosmetic changes
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:23:56  ram
?RCS: patch27: modified to avoid spurious Whoa warnings (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:02:25  ram
?RCS: patch23: avoid conflicts with <string.h>
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:22  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_memory: Inhdr strings cppstdin
 cppflags cppminus contains rm Setvar
?MAKE: -pick add $@ %<
?S:i_memory:
?S: This variable conditionally defines the I_MEMORY symbol, and indicates
?S: whether a C program should include <memory.h>.
?S:.
?C:I_MEMORY:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <memory.h>.
?C:.
?H:#$i_memory I_MEMORY  /**/
?H:.
?LINT:set i_memory
?X:
?X: Unfortunately, the definitions of memory functions sometimes
?X: conflict with those in <string.h>.  We'll assume that if
?X: <string.h> contains memcpy, then we don't need memory.h
?X:
: see if memory.h is available.
val=''
set memory.h val
eval $inhdr

: See if it conflicts with string.h
case "$val" in
```

```
$define)
 case "$strings" in
 ") ;;
 *)
  $cppstdin $cppflags $cppminus < $strings > mem.h
  if $contains 'memcpy' mem.h >/dev/null 2>&1; then
   echo " "
   echo "We won't be including <memory.h>."
   val="$undef"
  fi
  $rm -f mem.h
  ;;
 esac
esac
set i_memory
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_memory.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: yacc.U,v 3.0.1.1 1994/05/13 15:28:48 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: yacc.U,v $
?RCS: Revision 3.0.1.1  1994/05/13  15:28:48  ram
?RCS: patch27: added byacc as another alternative (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:10:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:yacc yaccflags: Guess Myread Oldconfig byacc bison cat test _exe
?MAKE: -pick add $@ %<
?S:yacc:
?S: This variable holds the name of the compiler compiler we
?S: want to use in the Makefile. It can be yacc, byacc, or bison -y.
?S:.
?S:yaccflags:
?S: This
```

```
 variable contains any additional yacc flags desired by the
?S: user.  It is up to the Makefile to use this.
?S:.
?T:comp
: determine compiler compiler
case "$yacc" in
")
 dflt=yacc;;
*)
 dflt="$yacc";;
esac
echo " "
comp='yacc'
if $test -f "$byacc$_exe"; then
 dflt="$byacc"
 comp="byacc or $comp"
fi
if $test -f "$bison$_exe"; then
 comp="$comp or bison -y"
fi
rp="Which compiler compiler ($comp) shall I use?"
. ./myread
yacc="$ans"
case "$yacc" in
*bis*)
 case "$yacc" in
 *-y*) ;;
 *)
  yacc="$yacc -y"
  echo "(Adding -y option to bison to get yacc-compatible behavior.)"
  ;;
 esac
 ;;
esac

@if yaccflags
: see if we need extra yacc flags
dflt="$yaccflags"
case "$dflt" in
") dflt=none;;
esac
$cat <<EOH

Your yacc program may need extra flags to normally process the parser sources.
Do NOT specify any -d or -v flags here, since those are explicitly known
by the various Makefiles. However, if your machine has strange/undocumented
options (like -Sr# on SCO to specify the
```

```
 maximum number of grammar rules), then
please add them here.  To use no flags, specify the word "none".

EOH
rp="Any additional yacc flags?"
. ./myread
case "$ans" in
none) yaccflags="";;
*) yaccflags="$ans";;
esac

@end
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/yacc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2015 Jarkko Hietaniemi, H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:longdblmantbits doublemantbits nvmantbits: Inlibc cat Compile run \
 rm_try Setvar echo i_sunmath usequadmath \
 d_longdbl longdblkind nvsize doublesize longdblsize
?MAKE: -pick add $@ %<
?S:doublemantbits:
?S: This symbol, if defined, tells how many mantissa bits
?S: there are in double precision floating point format.
?S: Note that this is usually DBL_MANT_DIG minus one, since
?S: with the standard IEEE 754 formats DBL_MANT_DIG includes
?S: the implicit bit which doesn't really exist.
?S:.
?S:longdblmantbits:
?S: This symbol, if defined, tells how many mantissa bits
?S: there are in long double precision floating point format.
?S: Note that this can be LDBL_MANT_DIG minus one,
?S: since
 LDBL_MANT_DIG can include the IEEE 754 implicit bit.
?S: The common x86-style 80-bit long double does not have
?S: an implicit bit.
?S:.
?S:nvmantbits:
?S: This variable tells how many bits the mantissa of a Perl NV has,
?S: not including the possible implicit bit.
```

```
?S:.
?C:DOUBLEMANTBITS:
?C: This symbol, if defined, tells how many mantissa bits
?C: there are in double precision floating point format.
?C: Note that this is usually DBL_MANT_DIG minus one, since
?C: with the standard IEEE 754 formats DBL_MANT_DIG includes
?C: the implicit bit, which doesn't really exist.
?C:.
?C:LONGDBLMANTBITS:
?C: This symbol, if defined, tells how many mantissa bits
?C: there are in long double precision floating point format.
?C: Note that this can be LDBL_MANT_DIG minus one,
?C: since LDBL_MANT_DIG can include the IEEE 754 implicit bit.
?C: The common x86-style 80-bit long double does not have
?C: an implicit bit.
?C:.
?C:NVMANTBITS:
?C: This symbol, if defined, tells how many mantissa bits
?C: (not
 including implicit bit) there are in a Perl NV.
?C: This depends on which floating point type was chosen.
?C:.
?H:#define DOUBLEMANTBITS  $doublemantbits
?H:#define LONGDBLMANTBITS $longdblmantbits
?H:#define NVMANTBITS      $nvmantbits
?H:.
?F:!try
: Check the length of the double mantissa
$echo "Checking how many mantissa bits your doubles have..." >&4
$cat >try.c <<EOP
#$i_sunmath I_SUNMATH
#include <float.h>
#ifdef I_SUNMATH
# include <sunmath.h>
#endif
#ifdef DBL_MANT_DIG
# define BITS (DBL_MANT_DIG - 1) /* the implicit bit does not count */
#endif
#include <stdio.h>
int main(int argc, char *argv[]) {
#ifdef BITS
 printf("%d\n", BITS);
#endif
 return 0;
}
EOP
set try
if eval $compile; then
```

```
   doublemantbits=`$run ./try`
else
   doublemantbits="$undef"
fi
$rm_try

: Check the length of the longdouble mantissa
$echo "Checking how many mantissa bits your long doubles have..." >&4
$cat >try.c <<EOP
#$i_sunmath I_SUNMATH
#include <float.h>
#ifdef I_SUNMATH
# include <sunmath.h>
#endif
#$d_longdbl
 HAS_LONG_DOUBLE
#if defined(HAS_LONG_DOUBLE) && defined(LDBL_MANT_DIG)
# if ($longdblkind == 3) || ($longdblkind == 4) /* 80-bit extended precision */
/* This format has no implicit bit.  Beware, however, that for
* this format the bare LDBL_MANT_DIG is misleading for inf/nan:
* the top three bits are used for inf (100) / qnan (11x) / snan (101),
* and the top bit must have been one since 387, zero is plain invalid.
* For normal fp values, the LDBL_MANT_DIG is fine, though. */
#  define BITS LDBL_MANT_DIG
# elif ($longdblkind == 5 || $longdblkind == 6 || $longdblkind == 7 || $longdblkind == 8) /* double double */
/* LDBL_MANT_DIG of 106 (twice 53) would be logical, but for some
* reason e.g. Irix thinks 107.  But in any case, we want only
* the number of real bits, the implicit bits are of no interest.  */
#  define BITS 2 * (DBL_MANT_DIG - 1)
# else
#  define BITS (LDBL_MANT_DIG - 1) /* the implicit bit does not count */
# endif
#endif
#include <stdio.h>
int
 main(int argc, char *argv[]) {
#ifdef BITS
 printf("%d\n", BITS);
#endif
 return 0;
}
EOP
set try
if eval $compile; then
   longdblmantbits=`$run ./try`
else
   longdblmantbits="$undef"
fi
```

```
$rm_try

: Check the length of the NV mantissa
$echo "Checking how many mantissa bits your NVs have..." >&4
if test "X$usequadmath" = "X$define"; then
 nvmantbits=112 # 128-1-15
else
 if test "X$nvsize" = "X$doublesize"; then
   nvmantbits="$doublemantbits"
 else
    if test "X$nvsize" = "X$longdblsize"; then
      nvmantbits="$longdblmantbits"
    else
      nvmantbits="$undef"
    fi
 fi
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/mantbits.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fp_classl: Inlibc
?MAKE: -pick add $@ %<
?S:d_fp_classl:
?S: This variable conditionally defines the HAS_FP_CLASSL symbol, which
?S: indicates to the C program that the fp_classl() routine is available.
?S:.
?C:HAS_FP_CLASSL:
?C: This symbol, if defined, indicates that the fp_classl routine is
?C: available to classify long doubles.  Available for example in
?C: Digital UNIX.  See for possible values HAS_FP_CLASS.
?C:.
?H:#$d_fp_classl HAS_FP_CLASSL  /**/
?H:.
?LINT:set d_fp_classl
: see if fp_classl exists
set fp_classl d_fp_classl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fp_classl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: lns.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  07:05:52  ram
?RCS: patch30: created by ADO
?RCS:
?X:
?X: This unit checks whether symbolic links are really supported.
?X: We can't rely on d_symlink because that may be listed in the
?X: C library but unimplemented.
?X:
?MAKE:lns: ln rm touch test
?MAKE: -pick add $@ %<
?S:lns:
?S: This variable holds the name of the command to make
?S: symbolic links (if they are supported).
  It can be used
?S: in the Makefile. It is either 'ln -s' or 'ln'
?S:.
: determine whether symbolic links are supported
echo " "
$rm -f blurfl sym
$touch blurfl
if $ln -s blurfl sym > /dev/null 2>&1 && $test -f sym; then
 echo "Symbolic links are supported." >&4
 lns="$ln -s"
else
 echo "Symbolic links are NOT supported." >&4
 lns="$ln"
fi
$rm -f blurfl sym
```

Found in path(s):

* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/lns.U
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```
?RCS:
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?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:byteorder: cat Myread Oldconfig Loc +cc +ccflags rm_try
?MAKE: -pick add $@ %<
?S:byteorder:
?S: This variable holds the byte order. In the following, larger digits
?S: indicate more significance.  The variable byteorder is either 4321
?S: on a big-endian machine, or 1234 on a little-endian, or 87654321
?S: on a Cray ... or 3412 with weird order !
?S:.
?C:BYTEORDER:
?C: This symbol hold the hexadecimal constant defined in byteorder,
?C: i.e. 0x1234 or 0x4321, etc...
?C:.
?H:#define BYTEORDER 0x$byteorder /*
 large digits for MSB */
?H:.
?T:xxx_prompt
?F:!try
: check for ordering of bytes in a long
case "$byteorder" in
")
 $cat <<'EOM'

In the following, larger digits indicate more significance.  A big-endian
machine like a Pyramid or a Motorola 680?0 chip will come out to 4321. A
little-endian machine like a Vax or an Intel 80?86 chip would be 1234. Other
machines may have weird orders like 3412.  A Cray will report 87654321. If
the test program works the default is probably right.
I'm now running the test program...
EOM
 $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
 int i;
 union {
```

```
  unsigned long l;
  char c[sizeof(long)];
 } u;

 if (sizeof(long) > 4)
  u.l = (0x08070605L << 32) | 0x04030201L;
 else
  u.l = 0x04030201L;
 for (i = 0; i < sizeof(long); i++)
  printf("%c", u.c[i]+'0');
 printf("\n");
 exit(0);
}
EOCP
 xxx_prompt=y
 if $cc $ccflags -o try try.c >/dev/null 2>&1 && ./try > /dev/null; then
  dflt=`./try`
  case "$dflt" in
  [1-4][1-4][1-4][1-4]|12345678|87654321)
   echo
 "(The test program ran ok.)"
   echo "byteorder=$dflt"
   xxx_prompt=n
   ;;
  ????|????????) echo "(The test program ran ok.)" ;;
  *) echo "(The test program didn't run right for some reason.)" ;;
  esac
 else
  dflt='4321'
  cat <<'EOM'
(I can't seem to compile the test program.  Guessing big-endian...)
EOM
 fi
 case "$xxx_prompt" in
 y)
  rp="What is the order of bytes in a long?"
  . ./myread
  byteorder="$ans"
  ;;
 *) byteorder=$dflt
  ;;
 esac
 ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/dist/U/byteorder.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: groupstype.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: groupstype.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:18:08  ram
?RCS: patch36: no longer uses Setvar to set 'groupstype' (ADO)
?RCS: patch36: typo fix in the word 'argument' (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:00:18  ram
?RCS: patch30: created by ADO
?RCS:
?MAKE:groupstype: gidtype d_getgrps Myread Oldconfig Findhdr cat d_setgrps
?MAKE: -pick add $@ %<
?INIT:groupstype=''
?S:groupstype:
?S: This
 variable defines Groups_t to be something like gid_t, int,
?S: ushort, or whatever type is used for the second argument to
?S: getgroups() and setgroups().  Usually, this is the same as
?S: gidtype (gid_t), but sometimes it isn't.
?S:.
?C:Groups_t (GROUPSTYPE):
?C: This symbol holds the type used for the second argument to
?C: getgroups() and setgroups().  Usually, this is the same as
?C: gidtype (gid_t) , but sometimes it isn't.
?C: It can be int, ushort, gid_t, etc...
?C: It may be necessary to include <sys/types.h> to get any
?C: typedef'ed information.  This is only required if you have
?C: getgroups() or setgroups()..
?C:.
?H:?%<:#if defined(HAS_GETGROUPS) || defined(HAS_SETGROUPS)
?H:?%<:#define Groups_t $groupstype /* Type for 2nd arg to [sg]etgroups() */
?H:?%<:#endif
?H:.
?W:%<:getgroups HAS_GETGROUPS setgroups HAS_SETGROUPS
: Find type of 2nd arg to 'getgroups()' and 'setgroups()'
```

```
echo " "
case "$d_getgrps$d_setgrps" in
*define*)
 case
 "$groupstype" in
 ") dflt="$gidtype" ;;
 *)  dflt="$groupstype" ;;
 esac
 $cat <<EOM
What type of pointer is the second argument to getgroups() and setgroups()?
Usually this is the same as group ids, $gidtype, but not always.

EOM
 rp='What type pointer is the second argument to getgroups() and setgroups()?'
 . ./myread
 groupstype="$ans"
 ;;
*)  groupstype="$gidtype";;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/groupstype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2004 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strlcpy: Inlibc Hasproto d_gnulibc
?MAKE: -pick add $@ %<
?S:d_strlcpy:
?S: This variable conditionally defines the HAS_STRLCPY symbol, which
?S: indicates to the C program that the strlcpy () routine is available.
?S:.
?C:HAS_STRLCPY:
?C: This symbol, if defined, indicates that the strlcpy () routine is
?C: available to do string copying.
?C:.
?H:#$d_strlcpy HAS_STRLCPY  /**/
?H:.
?T:d_strlcpy_proto xx1 xx2 xx3 xx4
?LINT:set d_strlcpy
: see if strlcpy exists
: We need both a prototype in string.h and the symbol in libc.
```

```
echo " "
d_strlcpy_proto="
xx1="#$d_gnulibc HAS_GNULIBC"
xx2='#if defined(HAS_GNULIBC) && !defined(_GNU_SOURCE)'
xx3='#   define _GNU_SOURCE'
xx4='#endif'
set d_strlcpy_proto strlcpy
 literal "$xx1" literal "$xx2" literal "$xx3" literal "$xx4" define string.h
eval $hasproto
case "$d_strlcpy_proto" in
   define) # see if strlcpy exists
 set strlcpy d_strlcpy
 eval $inlibc
 ;;
   *)  val=$undef
 set d_strlcpy
 eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strlcpy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_portable.U,v 3.0.1.2 1995/01/11 15:28:52 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_portable.U,v $
?RCS: Revision 3.0.1.2  1995/01/11  15:28:52  ram
?RCS: patch45: executable path stripping moved to the end in Config_sh.U
?RCS:
?RCS: Revision 3.0.1.1  1993/12/15  08:21:17  ram
?RCS: patch15: did not strip variables properly when needed
?RCS: patch15: now also strips down variables from trylist
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
```

```
   This is the same as the dist version, except I don't bother
?X:   prompting people since it makes no difference for perl5,
?X:   and only confuses people.
?X:
?X: The Loc unit is wanted to get the definition of all the locating variables.
?X:
?MAKE:d_portable: Loc Oldconfig
?MAKE: -pick add $@ %<
?S:d_portable:
?S: This variable conditionally defines the PORTABLE symbol, which
?S: indicates to the C program that it should not assume that it is
?S: running on the machine it was compiled on.
?S:.
?C:PORTABLE:
?C: This symbol, if defined, indicates to the C program that it should
?C: not assume that it is running on the machine it was compiled on.
?C: The program should be prepared to look up the host name, translate
?C: generic filenames, use PATH, etc.
?C:.
?H:#$d_portable PORTABLE /**/
?H:.
?D:d_portable="
: decide how portable to be.  Allow command line overrides.
case "$d_portable" in
"$undef") ;;
*) d_portable="$define" ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_portable.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtoull: Inlibc d_longlong Compile cat run
?MAKE: -pick add $@ %<
?S:d_strtoull:
?S: This variable conditionally defines the HAS_STRTOULL symbol, which
?S: indicates to the C program that the strtoull() routine is available.
?S:.
?C:HAS_STRTOULL:
?C: This symbol, if defined, indicates that the strtoull routine is
```

```
?C: available to convert strings to unsigned long longs.
?C:.
?H:#$d_strtoull HAS_STRTOULL  /**/
?H:.
?F:!try
: see if strtoull exists
set strtoull d_strtoull
eval $inlibc

case "$d_longlong-$d_strtoull" in
"$define-$define")
 $cat <<EOM
Checking whether your strtoull() works okay...
EOM
 $cat >try.c <<'EOCP'
#include <stdlib.h>
#include <errno.h>
#ifdef __hpux
#define strtoull __strtoull
#endif
#include
 <stdio.h>
static int bad = 0;
void check(const char *s, long long eull, int een) {
 long long gull;
 errno = 0;
 gull = strtoull(s, 0, 10);
 if (!((gull == eull) && (errno == een)))
  bad++;
}
int main() {
 check(" 1",                                1LL, 0);
 check(" 0",                                0LL, 0);
 check("18446744073709551615",  18446744073709551615ULL, 0);
 check("18446744073709551616",  18446744073709551615ULL, ERANGE);
#if 0 /* strtoull() for /^-/ strings is undefined. */
 check("-1",                 18446744073709551615ULL, 0);
 check("-18446744073709551614",                  2LL, 0);
 check("-18446744073709551615",                  1LL, 0);
 check("-18446744073709551616", 18446744073709551615ULL, ERANGE);
 check("-18446744073709551617", 18446744073709551615ULL, ERANGE);
#endif
 if (!bad)
  printf("ok\n");
}
EOCP
 set try
 if eval $compile; then
```

```
  case "`$run ./try`" in
  ok) echo "Your strtoull() seems to be working okay."
 ;;
  *) cat <<EOM >&4
Your strtoull() doesn't seem to be working okay.
EOM
     d_strtoull="$undef"
     ;;
  esac
 else
  echo "(I can't seem to compile the test program--assuming it doesn't)"
  d_strtoull="$undef"
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strtoull.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: package.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: package.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:27:21  ram
?RCS: patch36: beware of non-ascii character sets when translating case
?RCS:
?RCS: Revision 3.0.1.2  1993/11/10  17:37:02  ram
?RCS: patch14: skip definition of spackage if not otherwise used
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:11:10  ram
?RCS: patch10: added spackage, suitable for starting sentences
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:28  ram
?RCS: Baseline for dist 3.0
 netwide release.
?RCS:
?MAKE:package spackage: Nothing
?MAKE: -pick wipe $@ %<
?S:package:
```

```
?S: This variable contains the name of the package being constructed.
?S: It is primarily intended for the use of later Configure units.
?S:.
?S:spackage:
?S: This variable contains the name of the package being constructed,
?S: with the first letter uppercased, i.e. suitable for starting
?S: sentences.
?S:.
?X: dist-4 has defined PACKAGE: here, which clashes with perly.h
?X:  as package is a reserved keyword in perl
?T:first last
: set package name
package='<PACKAGENAME>'
@if spackage
first=`echo $package | sed -e 's/^\(.\).*/\1/'`
last=`echo $package | sed -e 's/^.\(.*\)/\1/'`
?X:
?X: So early in the Configure script, we don't have ./tr set up and can't
?X: include Tr in our dependency or that would create a cycle. Therefore,
?X: we have to somehow duplicate the work done in Tr. That's life.
?X:
case "`echo AbyZ | tr '[:lower:]' '[:upper:]' 2>/dev/null`"-"`echo AbyZ | tr '[:upper:]' '[:lower:]'
 2>/dev/null`" in
ABYZ-abyz) spackage=`echo $first | tr '[:lower:]' '[:upper:]'`$last;;
*) spackage=`echo $first | tr '[a-z]' '[A-Z]'`$last;;
esac
@end
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/package.U
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```
?RCS: $Id: i_sysmount.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysmount: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysmount:
?S: This variable conditionally defines the I_SYSMOUNT symbol,
?S: and indicates whether a C program should include <sys/mount.h>.
?S:.
?C:I_SYS_MOUNT:
?C: This symbol, if defined, indicates that <sys/mount.h> exists and
```

```
?C: should be included.
?C:.
?H:#$i_sysmount I_SYS_MOUNT  /**/
?H:.
?LINT:set i_sysmount
: see if this is a sys/mount.h system
set sys/mount.h i_sysmount
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_sysmount.U
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```
?RCS: Copyright (c) 2014-2014, Karl Williamson & H.Merijn Brand
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_wcsxfrm: Compile cat rm_try run Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_wcsxfrm:
?S: This variable conditionally defines the HAS_WCSXFRM symbol if the
?S: wcsxfrm() routine is available and can be used to compare wide
?S: character strings.
?S:.
?C:HAS_WCSXFRM:
?C: This symbol, if defined, indicates that the wcsxfrm routine is
?C: available to tranform a wide character string for wcscmp().
?C:.
?H:#$d_wcsxfrm HAS_WCSXFRM /**/
?H:.
?F:!try
?LINT: set d_wcsxfrm
: look for wcsxfrm
echo " "
$cat >try.c <<'EOCP'
#include
 <errno.h>
#include <wchar.h>
int main ()
{
   wchar_t dst[4], *src = L" ";
   errno = 0;
   return (wcsxfrm (dst, src, 1) ? errno ? errno : 0 : 1);
```

```
   }
EOCP
set try
?X: if $cc $ccflags $ldflags -o try try.c $libs >/dev/null 2>&1 ; then
val="$undef"
if eval $compile; then
   `$run ./try`
   case "$?" in
 0)  echo "A working wcsxfrm() found." >&4
     val="$define" ;;
 *)  echo "wcsxfrm() found, but it doesn't work" >&4
     ;;
 esac
else
   echo "wcsxfrm() NOT found." >&4
   fi
set d_wcsxfrm
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_wcsxfrm.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_db.U,v $
?RCS: Revision 3.0.1.3  1995/07/25  14:10:22  ram
?RCS: patch56: conditionally use const in test programs (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1995/05/12  12:14:42  ram
?RCS: patch54: extended for more intimate DB probing (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:21:50  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:i_db db_hashtype db_prefixtype: Inhdr +cc +ccflags rm_try contains cat \
```

```
  d_const
?MAKE: -pick
 add $@ %<
?S:i_db:
?S: This variable conditionally defines the I_DB symbol, and indicates
?S: whether a C program may include Berkeley's DB include file <db.h>.
?S:.
?S:db_hashtype:
?S: This variable contains the type of the hash structure element
?S: in the <db.h> header file.  In older versions of DB, it was
?S: int, while in newer ones it is u_int32_t.
?S:.
?S:db_prefixtype:
?S: This variable contains the type of the prefix structure element
?S: in the <db.h> header file.  In older versions of DB, it was
?S: int, while in newer ones it is size_t.
?S:.
?C:I_DB:
?C: This symbol, if defined, indicates to the C program that it should
?C: include Berkeley's DB include file <db.h>.
?C:.
?C:DB_Prefix_t:
?C: This symbol contains the type of the prefix structure element
?C: in the <db.h> header file.  In older versions of DB, it was
?C: int, while in newer ones it is u_int32_t.
?C:.
?C:DB_Hash_t:
?C: This symbol contains the type of the prefix structure element
?C: in the <db.h> header
 file.  In older versions of DB, it was
?C: int, while in newer ones it is size_t.
?C:.
?H:#$i_db I_DB  /**/
?H:#define DB_Hash_t $db_hashtype  /**/
?H:#define DB_Prefix_t $db_prefixtype   /**/
?H:.
?LINT:set i_db
: see if this is a db.h system
set db.h i_db
eval $inhdr

@if DB_Hash_t
case "$i_db" in
define)
 : Check the return type needed for hash
 echo " "
 echo "Checking return type needed for hash for Berkeley DB ..." >&4
 $cat >try.c <<EOCP
```

```
#$d_const HASCONST
#ifndef HASCONST
#define const
#endif
#include <sys/types.h>
#include <db.h>
u_int32_t hash_cb (ptr, size)
const void *ptr;
size_t size;
{
}
HASHINFO info;
int main()
{
 info.hash = hash_cb;
}
EOCP
 if $cc $ccflags -c try.c >try.out 2>&1 ; then
  if $contains warning try.out >>/dev/null 2>&1 ; then
   db_hashtype='int'
  else
   db_hashtype='u_int32_t'
  fi
 else
  echo "I can't seem to compile the test program." >&4
  db_hashtype=int
 fi
 $rm_try
 echo "Your version of Berkeley DB uses $db_hashtype for hash."
 ;;
*) db_hashtype=int
 ;;
esac

@end
@if
 DB_Prefix_t
case "$i_db" in
define)
 : Check the return type needed for prefix
 echo " "
 echo "Checking return type needed for prefix for Berkeley DB ..." >&4
 cat >try.c <<EOCP
#$d_const HASCONST
#ifndef HASCONST
#define const
#endif
#include <sys/types.h>
```

```
#include <db.h>
size_t prefix_cb (key1, key2)
const DBT *key1;
const DBT *key2;
{
}
BTREEINFO info;
int main()
{
 info.prefix = prefix_cb;
}
EOCP
 if $cc $ccflags -c try.c  >try.out 2>&1 ; then
  if $contains warning try.out >>/dev/null 2>&1 ; then
   db_prefixtype='int'
  else
   db_prefixtype='size_t'
  fi
 else
  echo "I can't seem to compile the test program." >&4
  db_prefixtype='int'
 fi
 $rm_try
 echo "Your version of Berkeley DB uses $db_prefixtype for prefix."
 ;;
*) db_prefixtype='int'
 ;;
esac

@end
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_db.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_systable.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_systable.U,v $
?RCS: Revision 3.0.1.1  1993/10/16  13:50:20  ram
```

```
?RCS: patch12: created
?RCS:
?RCS:
?MAKE:i_systable: Inhdr
?MAKE: -pick add $@ %<
?S:i_systable:
?S: This variable conditionally defines the I_SYS_TABLE symbol, and
?S: indicates whether a C program should include <sys/table.h>.
?S:.
?C:I_SYS_TABLE:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/table.h> for the OSF/1 table() system call.
?C:.
?H:#$i_systable
 I_SYS_TABLE  /**/
?H:.
?LINT:set i_systable
: see if this is an OSF sys/table system
set sys/table.h i_systable
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_systable.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpwnam_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getpwnam_r getpwnam_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_pwd extern_C
?MAKE: -pick add $@ %<
?S:d_getpwnam_r:
?S: This variable conditionally defines the HAS_GETPWNAM_R symbol,
?S: which indicates to the C program that the getpwnam_r()
?S: routine is available.
?S:.
?S:getpwnam_r_proto:
?S: This variable encodes the prototype of getpwnam_r.
?S: It is zero if d_getpwnam_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getpwnam_r
?S: is defined.
?S:.
```

```
?C:HAS_GETPWNAM_R:
?C: This symbol, if defined, indicates that the getpwnam_r routine
?C: is available to
 getpwnam re-entrantly.
?C:.
?C:GETPWNAM_R_PROTO:
?C: This symbol encodes the prototype of getpwnam_r.
?C: It is zero if d_getpwnam_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getpwnam_r
?C: is defined.
?C:.
?H:#$d_getpwnam_r HAS_GETPWNAM_R /**/
?H:#define GETPWNAM_R_PROTO $getpwnam_r_proto /**/
?H:.
?T:try hdrs d_getpwnam_r_proto
: see if getpwnam_r exists
set getpwnam_r d_getpwnam_r
eval $inlibc
case "$d_getpwnam_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_pwd pwd.h"
 case "$d_getpwnam_r_proto:$usethreads" in
 ":define") d_getpwnam_r_proto=define
  set d_getpwnam_r_proto getpwnam_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getpwnam_r_proto" in
 define)
 case "$getpwnam_r_proto" in
 "|0) try='int getpwnam_r(const char*, struct passwd*, char*, size_t, struct passwd**);'
 ./protochk "$extern_C $try" $hdrs && getpwnam_r_proto=I_CSBWR ;;
 esac
 case "$getpwnam_r_proto" in
 "|0) try='int getpwnam_r(const char*, struct passwd*,
 char*, int, struct passwd**);'
 ./protochk "$extern_C $try" $hdrs && getpwnam_r_proto=I_CSBIR ;;
 esac
 case "$getpwnam_r_proto" in
 "|0) try='struct passwd* getpwnam_r(const char*, struct passwd*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getpwnam_r_proto=S_CSBI ;;
 esac
 case "$getpwnam_r_proto" in
 "|0) try='int getpwnam_r(const char*, struct passwd*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getpwnam_r_proto=I_CSBI ;;
 esac
 case "$getpwnam_r_proto" in
 "|0) d_getpwnam_r=undef
```

```
  getpwnam_r_proto=0
  echo "Disabling getpwnam_r, cannot determine prototype." >&4 ;;
 * ) case "$getpwnam_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getpwnam_r_proto="REENTRANT_PROTO_$getpwnam_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getpwnam_r has no prototype, not using it." >&4 ;;
  esac
  d_getpwnam_r=undef
  getpwnam_r_proto=0
  ;;
 esac
 ;;
*) getpwnam_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getpwnam_r.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_madvise: Inlibc
?MAKE: -pick add $@ %<
?S:d_madvise:
?S: This variable conditionally defines HAS_MADVISE if madvise() is
?S: available to map a file into memory.
?S:.
?C:HAS_MADVISE:
?C: This symbol, if defined, indicates that the madvise system call is
?C: available to map a file into memory.
?C:.
?H:#$d_madvise HAS_MADVISE  /**/
?H:.
```

```
?LINT:set d_madvise
: see if madvise exists
set madvise d_madvise
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_madvise.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Chk_MANI.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Chk_MANI.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  14:57:25  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/31  09:33:14  ram
?RCS: patch44: now lists Begin instead of Myinit in its dependencies
?RCS: patch44: leading comment now explains how this unit is included
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit checks the package by making sure
 every file listed in MANIFEST
?X: is present. It is systematically "included" via the Finish unit (which
?X: is always present in every Configure script), although it may result in
?X: an empty inclusion when no MANIFEST is present.
?X:
?MAKE:Chk_MANI: Begin c n rsrc
?MAKE: -pick wipe $@ %<
?T:filelist ans tmppwd
?X: This check happens at metaconfig-time, so it's ok to hard-code the path.
@if {test -f ../MANIFEST}
: Now test for existence of everything in MANIFEST
echo " "
if test -f "$rsrc/MANIFEST"; then
 echo "First let's make sure your kit is complete.  Checking..." >&4
?X:
```

```
?X: Files spelled uppercased and beginning with PACK are produced by the
?X: shell archive builder and may be removed by the user. Usually, they are
?X: not listed in the MANIFEST file, but you never know...
?X:
?X: "split -l" is the new way of running a split, but we also try the older way
?X:
 awk '$1 !~ /PACK[A-Z]+/ {print $1}' "$rsrc/MANIFEST" | \
  (split -l 50 2>/dev/null || split -50)
 rm -f missing
 tmppwd=`pwd`
 for
 filelist in x??; do
  (cd "$rsrc"; ls `cat "$tmppwd/$filelist"` \
   >/dev/null 2>>"$tmppwd/missing")
 done
 if test -s missing; then
  cat missing >&4
  cat >&4 <<'EOM'

THIS PACKAGE SEEMS TO BE INCOMPLETE.

You have the option of continuing the configuration process, despite the
distinct possibility that your kit is damaged, by typing 'y'es.  If you
do, don't blame me if something goes wrong.  I advise you to type 'n'o
and contact the author (<MAINTLOC>).

EOM
?X: Can't use $echo at this early stage
  echo $n "Continue? [n] $c" >&4
  read ans
  case "$ans" in
  y*)
   echo "Continuing..." >&4
   rm -f missing
   ;;
  *)
?X:
?X: Use kill and not exit, so that the trap gets executed to clean up
?X:
   echo "ABORTING..." >&4
   kill $$
   ;;
  esac
 else
  echo "Looks good..."
 fi
else
 echo "There is no MANIFEST file.  I hope your kit is complete !"
```

```
fi
rm -f missing x??

@end
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Chk_MANI.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_times.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:07:50  ram
?RCS: patch56: typo fix, sytem -> system
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:14:00  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: What is the type returned by times() ?
?X:
?X: Force inclusion of <sys/types.h>
?X:INC: i_systypes
?MAKE:d_times clocktype: Csym Myread Typedef i_systimes
?MAKE: -pick
 add $@ %<
?S:d_times:
?S: This variable conditionally defines the HAS_TIMES symbol, which indicates
?S: that the times() routine exists.  The times() routine is normally
?S: provided on UNIX systems. You may have to include <sys/times.h>.
?S:.
?S:clocktype:
?S: This variable holds the type returned by times(). It can be long,
?S: or clock_t on BSD sites (in which case <sys/types.h> should be
?S: included).
?S:.
```

```
?C:HAS_TIMES (TIMES):
?C: This symbol, if defined, indicates that the times() routine exists.
?C: Note that this became obsolete on some systems (SUNOS), which now
?C: use getrusage(). It may be necessary to include <sys/times.h>.
?C:.
?C:Clock_t (CLOCKTYPE):
?C: This symbol holds the type returned by times(). It can be long,
?C: or clock_t on BSD sites (in which case <sys/types.h> should be
?C: included).
?C:.
?H:#$d_times HAS_TIMES  /**/
?H:#define Clock_t $clocktype /* Clock time */
?H:.
?T:val inc
: see if times exists
echo " "
if set times val -f d_times; eval $csym;
 $val; then
 echo 'times() found.' >&4
 d_times="$define"
 inc=''
 case "$i_systimes" in
 "$define") inc='sys/times.h';;
 esac
 set clock_t clocktype long stdio.h sys/types.h $inc
 eval $typedef
 dflt="$clocktype"
 echo " "
 rp="What type is returned by times() on this system?"
 . ./myread
 clocktype="$ans"
else
 echo 'times() NOT found, hope that will do.' >&4
 d_times="$undef"
?X: The following is needed for typedef (won't like an empty variable)
 clocktype='int'
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_times.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_systwgcf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_systwgcf.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_systwgcf: Inhdr
?MAKE: -pick add $@ %<
?S:i_systwgcf:
?S: This variable conditionally defines the I_SYS_TWG_CF symbol, and
?S: indicates whether a C program should include sys/twg_config.h.
?S:.
?C:I_SYS_TWG_CF:
?C: This symbol, if defined, indicates to the C program that it should
?C: include sys/twg_config.h.
?C:.
?H:#$i_systwgcf
 I_SYS_TWG_CF /**/
?H:.
?LINT:set i_systwgcf
: see if this is a sys/twg_config.h system
set sys/twg_config.h i_systwgcf
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_systwgcf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:usedefaultstrict: Setvar Myread
?MAKE: -pick add $@ %<
?LINT:set usedefaultstrict
?S:usedefaultstrict:
?S: This setting provides a mechanism for perl developers to enable
?S: strict by default. These defaults do not apply when perl is run
?S: via -e or -E.
?S:.
?C:USE_STRICT_BY_DEFAULT:
?C: This symbol, if defined, enables additional defaults.
?C: At this time it only enables implicit strict by default.
?C:.
?H:#$usedefaultstrict USE_STRICT_BY_DEFAULT /* use strict by default */
```

```
?H:.
: Ask about strict by default.
case "$usedefaultstrict" in
  $define|true|[Yy]*)
    dflt="y"
    ;;
  *)
    dflt="n"
    ;;
  esac

cat <<EOM

EXPERIMENTAL: Perl can now be built with strict on by default when not
invoked with -e or -E. This is a diagnostic tool
 for development.

Unless you are familiar with this feature, you should probably answer 'no'.

EOM

rp='Would you like to build perl with strict enabled by default?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*)   val="$undef"  ;;
esac
set usedefaultstrict
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/usedefaultstrict.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2017, Karl Williamson
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_mbrtowc: Inlibc
?MAKE: -pick add $@ %<
?S:d_mbrtowc:
?S: This variable conditionally defines the HAS_MBRTOWC symbol if the
?S: mbrtowc() routine is available to be used to convert a multi-byte
```

```
?S: character into a wide character.
?S:.
?C:HAS_MBRTOWC:
?C: This symbol, if defined, indicates that the mbrtowc routine is
?C: available to convert a multi-byte character into a wide character.
?C:.
?H:#$d_mbrtowc HAS_MBRTOWC /**/
?H:.
?LINT: set d_mbrtowc
: see if mbrtowc exists
set mbrtowc d_mbrtowc
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_mbrtowc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_tminsys.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_tminsys.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_tminsys: contains Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_tminsys:
?S: This variable conditionally defines TM_IN_SYS if this system
?S: declares "struct tm" in <sys/time.h> rather than <time.h>.
?S:.
?C:TM_IN_SYS (TMINSYS):
?C: This symbol is defined if this system declares "struct tm" in
?C: <sys/time.h> rather than <time.h>.
  We can't just say
?C: -I/usr/include/sys because some systems have both time files, and
?C: the -I trick gets the wrong one.
?C:.
?H:#$d_tminsys TM_IN_SYS  /**/
?H:.
?LINT:set d_tminsys
```

```
: see if struct tm is defined in sys/time.h
echo " "
if $contains 'struct tm' `./findhdr time.h` >/dev/null 2>&1 ; then
 echo "You have struct tm defined in <time.h> rather than <sys/time.h>." >&4
 val="$undef"
else
 echo "You have struct tm defined in <sys/time.h> rather than <time.h>." >&4
 val="$define"
fi
set d_tminsys
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_tminsys.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethostbyaddr_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_gethostbyaddr_r gethostbyaddr_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_gethostbyaddr_r:
?S: This variable conditionally defines the HAS_GETHOSTBYADDR_R symbol,
?S: which indicates to the C program that the gethostbyaddr_r()
?S: routine is available.
?S:.
?S:gethostbyaddr_r_proto:
?S: This variable encodes the prototype of gethostbyaddr_r.
?S: It is zero if d_gethostbyaddr_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gethostbyaddr_r
?S: is defined.
?S:.
?C:HAS_GETHOSTBYADDR_R:
?C: This symbol, if defined, indicates
 that the gethostbyaddr_r routine
?C: is available to gethostbyaddr re-entrantly.
?C:.
?C:GETHOSTBYADDR_R_PROTO:
?C: This symbol encodes the prototype of gethostbyaddr_r.
?C: It is zero if d_gethostbyaddr_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gethostbyaddr_r
```

```
?C: is defined.
?C:.
?H:#$d_gethostbyaddr_r HAS_GETHOSTBYADDR_R /**/
?H:#define GETHOSTBYADDR_R_PROTO $gethostbyaddr_r_proto /**/
?H:.
?T:try hdrs d_gethostbyaddr_r_proto
: see if gethostbyaddr_r exists
set gethostbyaddr_r d_gethostbyaddr_r
eval $inlibc
case "$d_gethostbyaddr_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_gethostbyaddr_r_proto:$usethreads" in
 ":define") d_gethostbyaddr_r_proto=define
  set d_gethostbyaddr_r_proto gethostbyaddr_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_gethostbyaddr_r_proto" in
 define)
 case "$gethostbyaddr_r_proto" in
 "|0) try='int gethostbyaddr_r(const char*, size_t, int, struct hostent*, char*,
 size_t, struct hostent**, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=I_CWISBWRE ;;
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) try='struct hostent* gethostbyaddr_r(const char*, size_t, int, struct hostent*, char*, size_t, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_CWISBWIE ;;
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) try='struct hostent* gethostbyaddr_r(const char*, size_t, int, struct hostent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_CWISBIE ;;
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) try='struct hostent* gethostbyaddr_r(const void*, size_t, int, struct hostent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_TWISBIE ;;
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) try='struct hostent* gethostbyaddr_r(const char*, int, int, struct hostent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_CIISBIE ;;
 esac
 case
 "$gethostbyaddr_r_proto" in
 "|0) try='struct hostent* gethostbyaddr_r(const char*, struct hostent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_CSBIE ;;
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) try='struct hostent* gethostbyaddr_r(const void*, struct hostent*, char*, int, int*);'
```

```
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_TSBIE ;;
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) try='int gethostbyaddr_r(const char*, size_t, int, struct hostent*, struct hostent_data*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=I_CWISD ;;
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) try='int gethostbyaddr_r(const char*, int, int, struct hostent*, struct hostent_data*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=I_CIISD ;;
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) try='int gethostbyaddr_r(const char*, int, int);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=I_CII ;;
 esac
 case
 "$gethostbyaddr_r_proto" in
 "|0) try='int gethostbyaddr_r(const void*, socklen_t, int, struct hostent*, char*, size_t, struct hostent**, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=I_TsISBWRE ;;
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) d_gethostbyaddr_r=undef
  gethostbyaddr_r_proto=0
  echo "Disabling gethostbyaddr_r, cannot determine prototype." >&4 ;;
 * ) case "$gethostbyaddr_r_proto" in
  REENTRANT_PROTO*) ;;
  *) gethostbyaddr_r_proto="REENTRANT_PROTO_$gethostbyaddr_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "gethostbyaddr_r has no prototype, not using it." >&4 ;;
  esac
  d_gethostbyaddr_r=undef
  gethostbyaddr_r_proto=0
  ;;
 esac
 ;;
*) gethostbyaddr_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_gethostbyaddr_r.U
No license file was found, but licenses were detected in source scan.

?RCS: Id

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_isascii.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:13:39  ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:09:32  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_isascii: cc cat ccflags ldflags rm libs Setvar
?MAKE: -pick add $@ %<
?S:d_isascii:
?S: This variable conditionally defines the HAS_ISASCII constant,
?S: which indicates to the C program that isascii()
 is available.
?S:.
?C:HAS_ISASCII:
?C: This manifest constant lets the C program know that isascii
?C: is available.
?C:.
?H:#$d_isascii HAS_ISASCII  /**/
?H:.
?LINT:set d_isascii
?X: Can't use Inlibc because isascii() might be a macro.
: Look for isascii
echo " "
$cat >isascii.c <<'EOCP'
#include <stdio.h>
#include <ctype.h>
int main() {
 int c = 'A';
 if (isascii(c))
  exit(0);
 else
  exit(1);
}
EOCP
if $cc $ccflags $ldflags -o isascii isascii.c $libs >/dev/null 2>&1 ; then
 echo "isascii() found." >&4
```

```
 val="$define"
else
 echo "isascii() NOT found." >&4
 val="$undef"
fi
set d_isascii
eval $setvar
$rm -f isascii*
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_isascii.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sigaction.U,v 3.0.1.1 1997/02/28 15:44:29 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_sigaction.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:44:29  ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_sigaction: Csym Compile Setvar cat rm_try i_stdlib
?MAKE: -pick add $@ %<
?S:d_sigaction:
?S: This variable conditionally defines the HAS_SIGACTION symbol, which
?S: indicates that the Vr4 sigaction() routine is available.
?S:.
?C:HAS_SIGACTION:
?C: This symbol, if defined, indicates that Vr4's sigaction() routine
?C: is available.
?C:.
?H:#$d_sigaction
 HAS_SIGACTION /**/
?H:.
?T:val
?LINT:set d_sigaction
: see if we have sigaction
echo " "
if set sigaction val -f d_sigaction; eval $csym; $val; then
 echo 'sigaction() found.' >&4
```

```
?X:
?X: Solaris 2.5_x86 with SunWorks Pro C 3.0.1 doesn't have a complete
?X: sigaction structure if compiled with cc -Xc.  This compile test
?X: will fail then.  <doughera@lafcol.lafayette.edu>
?X:
 $cat > try.c <<EOP
#include <stdio.h>
#include <sys/types.h>
#include <signal.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
{
   struct sigaction act, oact;
   act.sa_flags = 0;
   oact.sa_handler = 0;
   /* so that act and oact are used */
   exit(act.sa_flags == 0 &&  oact.sa_handler == 0);
}
EOP
 set try
 if eval $compile_ok; then
  val="$define"
 else
  echo "But you don't seem to have a usable struct sigaction." >&4
  val="$undef"
 fi
else
 echo 'sigaction NOT found.' >&4
 val="$undef"
fi
set d_sigaction; eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_sigaction.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_ndbm.U,v $
?RCS: Revision 3.0.1.1  1995/05/12  12:16:53  ram
?RCS: patch54: made more robust by checking both header and lib (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:23  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_ndbm: Inhdr Inlibc Setvar
?MAKE: -pick add $@ %<
?S:i_ndbm (d_ndbm):
?S: This variable conditionally defines the I_NDBM symbol, which
?S: indicates to the C program that <ndbm.h> exists and should
?S: be included.
?S:.
?C:I_NDBM (HAS_NDBM NDBM):
?C: This
 symbol, if defined, indicates that <ndbm.h> exists and should
?C: be included.
?C:.
?H:#$i_ndbm I_NDBM /**/
?H:.
?T:t_ndbm d_dbm_open
?LINT:set i_ndbm
: see if ndbm.h is available
?X: t_ndbm is a tentative check.  We might just have the .h, not the lib -- ADO
set ndbm.h t_ndbm
eval $inhdr
case "$t_ndbm" in
$define)
 : see if dbm_open exists
 set dbm_open d_dbm_open
 eval $inlibc
 case "$d_dbm_open" in
 $undef)
  t_ndbm="$undef"
  echo "We won't be including <ndbm.h>"
  ;;
 esac
 ;;
esac
val="$t_ndbm"
set i_ndbm
eval $setvar
```

Found in path(s):

* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_ndbm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_msgsnd.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msgsnd.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:41  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_msgsnd: Inlibc
?MAKE: -pick add $@ %<
?S:d_msgsnd:
?S: This variable conditionally defines the HAS_MSGSND symbol, which
?S: indicates to the C program that the msgsnd() routine is available.
?S:.
?C:HAS_MSGSND:
?C: This symbol, if defined, indicates that the msgsnd() routine is
?C: available to send a message into the message queue.
?C:.
?H:#$d_msgsnd
 HAS_MSGSND  /**/
?H:.
?LINT:set d_msgsnd
: see if msgsnd exists
set msgsnd d_msgsnd
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_msgsnd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: bin.U,v 3.1 1999/07/09 18:20:13 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: bin.U,v $
?RCS: Revision 3.1  1999/07/09 18:20:13  doughera
?RCS: Updated for installprefix
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:15:32  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:32:40  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:05:28  ram
?RCS: patch32: now uses installation prefix
?RCS:
?RCS:
 Revision 3.0.1.1  1993/09/13  15:56:51  ram
?RCS: patch10: made prompting more explicit (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:bin binexp installbin userelocatableinc initialinstalllocation: \
 Myread Prefixit Getfile Setvar Setprefixvar Oldconfig \
 test prefix prefixexp
?MAKE: -pick add $@ %<
?Y:TOP
?D:bin=''
?S:bin:
?S: This variable holds the name of the directory in which the user wants
?S: to put publicly executable images for the package in question.  It
?S: is most often a local directory such as /usr/local/bin. Programs using
?S: this variable must be prepared to deal with ~name substitution.
?S:.
?D:binexp=''
?S:binexp:
?S: This is the same as the bin variable, but is filename expanded at
?S: configuration time, for use in your makefiles.
?S:.
?D:installbin=''
?S:installbin:
?S: This variable is the same as binexp unless AFS is running in which case
?S: the user is explicitly prompted for it. This variable
 should always
?S: be used in your makefiles for maximum portability.
?S:.
?D:userelocatableinc=''
```

```
?S:userelocatableinc:
?S: This variable is set to true to indicate that perl should relocate
?S: @INC entries at runtime based on the path to the perl binary.
?S: Any @INC paths starting "../" are relocated relative to the directory
?S: containing the perl binary, and a logical cleanup of the path is then
?S: made around the join point (removing "dir/../" pairs)
?S:.
?S:initialinstalllocation:
?S: When userelocatableinc is true, this variable holds the location
?S: that make install should copy the perl binary to, with all the
?S: run-time relocatable paths calculated from this at install time.
?S: When used, it is initialized to the original value of binexp, and
?S: then binexp is set to '../', as the other binaries are found
?S: relative to the perl binary.
?S:.
?C:BIN:
?C: This symbol holds the path of the bin directory where the package will
?C: be installed. Program must be
 prepared to deal with ~name substitution.
?C:.
?C:BIN_EXP:
?C: This symbol is the filename expanded version of the BIN symbol, for
?C: programs that do not want to deal with that at run-time.
?C:.
?C:PERL_RELOCATABLE_INC:
?C: This symbol, if defined, indicates that we'd like to relocate entries
?C: in @INC at run time based on the location of the perl binary.
?C:.
?H:#define BIN "$bin" /**/
?H:#define BIN_EXP "$binexp" /**/
?H:#define PERL_RELOCATABLE_INC "$userelocatableinc"  /**/
?H:.
?D:bin='/usr/local/bin'
?LINT:change prefix
?LINT:change prefixexp
?LINT:change prefixvar
?LINT:change installprefixexp
?LINT:set userelocatableinc
: determine where public executables go
echo " "
set dflt bin bin
eval $prefixit
fn=d~
rp='Pathname where the public executables will reside?'
. ./getfile
if $test "X$ansexp" != "X$binexp"; then
 installbin="
fi
```

```
prefixvar=bin
: XXX Bug? -- ignores Configure -Dinstallprefix setting.
: XXX If this is fixed, also fix the "start perl" hunk below, which relies on
:
     this via initialinstalllocation
. ./setprefixvar

case "$userelocatableinc" in
$define|true|[yY]*) dflt='y' ;;
*)   dflt='n' ;;
esac
cat <<EOM

Would you like to build Perl so that the installation is relocatable, so that
library paths in @INC are determined relative to the path of the perl binary?
This is not advised for system Perl installs, or if you need to run setid
scripts or scripts under taint mode.

If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp='Use relocatable @INC?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*) val="$undef"  ;;
esac
set userelocatableinc
eval $setvar

initialinstalllocation="$binexp"
: Default prefix is now "up one level from where the binaries are"
case "$userelocatableinc" in
$define|true|[yY]*)
   bin=".../"
   binexp=".../"
   prefix=".../.."
   prefixexp=".../.."
   installprefixexp=".../.."
   ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/bin.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Extensions.U,v$
?RCS:

```
?RCS: Copyright (c) 1996-1998, Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: Extensions.U,v $
?RCS:
?MAKE:known_extensions extensions dynamic_ext static_ext nonxs_ext \
 useposix useopcode uselanginfo : \
 Myread hint usedl d_sem d_socket i_db i_dbm i_rpcsvcdbm i_gdbm \
 d_ndbm package test cat rsrc \
 d_msg d_shm osname use64bitint \
 libs d_cplusplus sed ls rm contains trnl sort
?MAKE: -pick add $@ %<
?Y:BOTTOM
?S:known_extensions:
?S: This variable holds a list of all extensions (both XS and non-xs)
?S: included in the package source distribution.  This information is
?S: only really of use during the Perl build, as the list makes no
?S: distinction between extensions which were build and installed, and
?S: those which where not.  See "extensions"
 for the list of extensions
?S: actually built and available.
?S:.
?S:dynamic_ext:
?S: This variable holds a list of XS extension files we want to
?S: link dynamically into the package.  It is used by Makefile.
?S:.
?S:static_ext:
?S: This variable holds a list of XS extension files we want to
?S: link statically into the package.  It is used by Makefile.
?S:.
?S:nonxs_ext:
?S: This variable holds a list of all non-xs extensions built and
?S: installed by the package.  By default, all non-xs extensions
?S: distributed will be built, with the exception of platform-specific
?S: extensions (currently only one VMS specific extension).
?S:.
?S:extensions:
?S: This variable holds a list of all extension files (both XS and
?S: non-xs) installed with the package.  It is propagated to Config.pm
?S: and is typically used to test whether a particular extension
?S: is available.
?S:.
?S:useposix:
?S: This variable holds either 'true' or 'false' to indicate
?S: whether the POSIX extension should
```

```
 be used.  The sole
?S: use for this currently is to allow an easy mechanism
?S: for hints files to indicate that POSIX will not compile
?S: on a particular system.
?S:.
?S:useopcode:
?S: This variable holds either 'true' or 'false' to indicate
?S: whether the Opcode extension should be used.  The sole
?S: use for this currently is to allow an easy mechanism
?S: for users to skip the Opcode extension from the Configure
?S: command line.
?S:.
?S:uselanginfo:
?S: This variable holds either 'true' or 'false' to indicate
?S: whether the I18N::Langinfo extension should be used.  The sole
?S: use for this currently is to allow an easy mechanism for users to skip
?S: this extension from the Configure command line.
?S:.
?T:xxx avail_ext this_ext tdir xs_extensions nonxs_extensions find_extensions
?INIT:: set useposix=false in your hint file to disable the POSIX extension.
?INIT:useposix=true
?INIT:: set useopcode=false in your hint file to disable the Opcode extension.
?INIT:useopcode=true
?INIT::
 set uselanginfo=false in your hint file to disable the I18N::Langinfo extension.
?INIT:uselanginfo=true
?LINT:extern noextensions
?LINT:extern onlyextensions
?T:keepextensions i
: Check extensions
echo " "
echo "Looking for extensions..." >&4
: If we are using the old config.sh, nonxs_extensions and xs_extensions may
: contain old or inaccurate or duplicate values.
nonxs_extensions=''
xs_extensions=''
: We do not use find because it might not be available.
: We do not just use MANIFEST because the user may have dropped
: some additional extensions into the source tree and expect them
: to be built.

: Function to recursively find available extensions, ignoring DynaLoader
: NOTE: recursion limit of 10 to prevent runaway in case of symlink madness
: In 5.10.1 and later, extensions are stored in directories
: like File-Glob instead of the older File/Glob/.
find_extensions='
   for xxx in *; do
 case "$xxx" in
```

```
    DynaLoader|dynaload) ;;
    *)
    this_ext=`echo "$xxx" | $sed -e s/-/\\\/g`;

   case "$this_ext" in
  Scalar/List/Utils) this_ext="List/Util" ;;
  PathTools)         this_ext="Cwd" ;;
    esac;
    echo " $xs_extensions $nonxs_extensions" > "$tdir/$$.tmp";
    if $contains " $this_ext " "$tdir/$$.tmp"; then
  echo >&4;
  echo "Duplicate directories detected for extension $xxx" >&4;
  echo "Configure cannot correctly recover from this - shall I abort?" >&4;
  case "$knowitall" in
  "") dflt=y;;
  *) dflt=n;;
  esac;
  . ../UU/myread;
  case "$ans" in
  n*|N*) ;;
  *) echo >&4;
      echo "Ok.  Stopping Configure." >&4;
      echo "Please remove the duplicate directory (e.g. using git clean) and then re-run Configure" >&4;
      exit 1;;
  esac;
  echo "Ok.  You will need to correct config.sh before running make." >&4;
    fi;
    $ls -1 "$xxx" > "$tdir/$$.tmp";
    if   $contains "\.xs$" "$tdir/$$.tmp" > /dev/null 2>&1; then
  xs_extensions="$xs_extensions $this_ext";
    elif $contains "\.c$"  "$tdir/$$.tmp" > /dev/null 2>&1; then
  xs_extensions="$xs_extensions
 $this_ext";
    elif $test -d "$xxx"; then
  nonxs_extensions="$nonxs_extensions $this_ext";
    fi;
    $rm -f "$tdir/$$.tmp";
    ;;
 esac;
   done'
tdir=`pwd`
cd "$rsrc/cpan"
set X
shift
eval $find_extensions
cd "$rsrc/dist"
set X
shift
```

```
eval $find_extensions
cd "$rsrc/ext"
set X
shift
eval $find_extensions
set X $xs_extensions
shift
xs_extensions=`echo "$*" | tr ' ' $trnl | $sort | tr $trnl ' '`
set X $nonxs_extensions
shift
nonxs_extensions=`echo "$*" | tr ' ' $trnl | $sort | tr $trnl ' '`
cd "$tdir"
known_extensions=`echo $nonxs_extensions $xs_extensions  | tr ' ' $trnl | $sort | tr $trnl ' '`

: Now see which are supported on this system.
?X: avail_ext lists available XS extensions.
avail_ext="
for xxx in $xs_extensions ; do
 case "$xxx" in
?X: Handle possible DOS 8.3 filename and case alterations
 Amiga*)
  case "$osname" in
  amigaos) avail_ext="$avail_ext $xxx" ;;
  esac
  ;;
 DB_File|db_file)
  case "$i_db" in
  $define) avail_ext="$avail_ext $xxx"
 ;;
  esac
  ;;
 GDBM_File|gdbm_fil)
  case "$i_gdbm" in
  $define) avail_ext="$avail_ext $xxx" ;;
  esac
  ;;
 IPC/SysV|ipc/sysv)
  : XXX Do we need a useipcsysv variable here
  case "${d_msg}${d_sem}${d_shm}" in
  *"${define}"*) avail_ext="$avail_ext $xxx" ;;
  esac
  ;;
 NDBM_File|ndbm_fil)
  case "$d_ndbm" in
  $define)
     case "$osname-$use64bitint" in
     hpux-define)
   case "$libs" in
```

```
  *-lndbm*) avail_ext="$avail_ext $xxx" ;;
  esac
  ;;
     *) avail_ext="$avail_ext $xxx" ;;
     esac
     ;;
 esac
 ;;
ODBM_File|odbm_fil)
 case "${i_dbm}${i_rpcsvcdbm}" in
 *"${define}"*)
     case "$d_cplusplus" in
     define) ;; # delete as a function name will not work
     *)  case "$osname-$use64bitint" in
  hpux-define)
      case "$libs" in
      *-ldbm*) avail_ext="$avail_ext $xxx" ;;
      esac
      ;;
  *) avail_ext="$avail_ext $xxx" ;;
  esac
  ;;
     esac
     ;;
 esac
 ;;
Opcode|opcode)
 case "$useopcode" in
 true|define|y) avail_ext="$avail_ext
$xxx" ;;
 esac
 ;;
POSIX|posix)
 case "$useposix" in
 true|define|y) avail_ext="$avail_ext $xxx" ;;
 esac
 ;;
Socket|socket)
 case "$d_socket" in
 true|$define|y) avail_ext="$avail_ext $xxx" ;;
 esac
 ;;
I18N/Langinfo|langinfo)
 case "$uselanginfo" in
 true|define|y) avail_ext="$avail_ext $xxx" ;;
 esac
 ;;
Sys/Syslog|sys/syslog)
```

```
 case $osname in
  amigaos) ;; # not really very useful on AmigaOS
  *)
  : XXX syslog requires socket
  case "$d_socket" in
  true|$define|y) avail_ext="$avail_ext $xxx" ;;
  esac
  ;;
 esac
 ;;
threads|threads/shared)
 # threads and threads::shared are special cases.
 # To stop people from asking "Perl 5.8.0 was supposed
 # to have this new fancy threads implementation but my
 # perl doesn't have it" and from people trying to
 # (re)install the threads module using CPAN.pm and
 # CPAN.pm then offering to reinstall Perl 5.8.0,
 # the threads.pm and threads/shared.pm will always be
 # there, croaking informatively ("you
need to rebuild
 # all of Perl with threads, sorry") when threads haven't
 # been compiled in.
 # --jhi
 avail_ext="$avail_ext $xxx"
 ;;
VMS*)
 ;;
Win32*)
 case "$osname" in
 cygwin) avail_ext="$avail_ext $xxx" ;;
 esac
 ;;
XS/APItest|xs/apitest)
 # This is just for testing.  Skip it unless we have dynamic loading.

 case "$usedl" in
 $define) avail_ext="$avail_ext $xxx" ;;
 esac
 ;;
XS/Typemap|xs/typemap)
 # This is just for testing.  Skip it unless we have dynamic loading.
 case "$usedl" in
 $define) avail_ext="$avail_ext $xxx" ;;
 esac
 ;;
*) avail_ext="$avail_ext $xxx"
 ;;
esac
```

```
done

set X $avail_ext
shift
avail_ext="$*"

case "$onlyextensions" in
") ;;
*)  keepextensions="
   echo "You have requested that only certain extensions be included..." >&4
   for i in $onlyextensions; do
       case " $avail_ext " in
       *" $i "*)
           echo "Keeping extension $i."
           keepextensions="$keepextensions $i"
           ;;
       *) echo "Ignoring
 extension $i." ;;
       esac
   done
   avail_ext="$keepextensions"
   ;;
esac

case "$noextensions" in
") ;;
*)  keepextensions="
   echo "You have requested that certain extensions be ignored..." >&4
   for i in $avail_ext; do
       case " $noextensions " in
       *" $i "*) echo "Ignoring extension $i." ;;
       *) echo "Keeping extension $i.";
          keepextensions="$keepextensions $i"
          ;;
       esac
   done
   avail_ext="$keepextensions"
   ;;
esac

: Now see which nonxs extensions are supported on this system.
: For now assume all are.
nonxs_ext="
for xxx in $nonxs_extensions ; do
 case "$xxx" in
 VMS*)
  ;;
 *) nonxs_ext="$nonxs_ext $xxx"
```

```
  ;;
 esac
done

set X $nonxs_ext
shift
nonxs_ext="$*"

case $usedl in
$define)
 $cat <<EOM
A number of extensions are supplied with $package.  You may choose to
compile these extensions for dynamic loading (the default), compile
them into the $package executable (static loading), or not include
them at all.
  Answer "none" to include no extensions.
Note that DynaLoader is always built and need not be mentioned here.

EOM
 case "$dynamic_ext" in
 ")
  : Exclude those listed in static_ext
  dflt="
  for xxx in $avail_ext; do
   case " $static_ext " in
   *" $xxx "*) ;;
   *) dflt="$dflt $xxx" ;;
   esac
  done
  set X $dflt
  shift
  dflt="$*"
  ;;
 *) dflt="$dynamic_ext"
  # Perhaps we are reusing an old out-of-date config.sh.
  case "$hint" in
  previous)
   if test X"$dynamic_ext" != X"$avail_ext"; then
    $cat <<EOM
NOTICE:  Your previous config.sh list may be incorrect.
The extensions now available to you are
 ${avail_ext}
but the default list from your previous config.sh is
 ${dynamic_ext}

EOM
   fi
   ;;
```

```
 esac
 ;;
esac
case "$dflt" in
") dflt=none;;
esac
rp="What extensions do you wish to load dynamically?"
. ./myread
case "$ans" in
?X: Use ' ' so a subsequent Configure will preserve that value.
none) dynamic_ext=' ' ;;
*) dynamic_ext="$ans" ;;
esac

case "$static_ext"
in
")
 : Exclude those already listed in dynamic linking
 dflt="
 for xxx in $avail_ext; do
  case " $dynamic_ext " in
  *" $xxx "*) ;;
  *) dflt="$dflt $xxx" ;;
  esac
 done
 set X $dflt
 shift
 dflt="$*"
 ;;
*)  dflt="$static_ext"
 ;;
esac

case "$dflt" in
") dflt=none;;
esac
rp="What extensions do you wish to load statically?"
. ./myread
case "$ans" in
?X: Use ' ' so a subsequent Configure will preserve that value.
none) static_ext=' ' ;;
*) static_ext="$ans" ;;
esac
;;
*)
 $cat <<EOM
A number of extensions are supplied with $package.  Answer "none"
to include no extensions.
```

```
Note that DynaLoader is always built and need not be mentioned here.

EOM
 case "$static_ext" in
 ") dflt="$avail_ext" ;;
 *) dflt="$static_ext"
  # Perhaps we are reusing an old out-of-date config.sh.
  case "$hint" in
  previous)
   if test X"$static_ext" != X"$avail_ext"; then
    $cat <<EOM
NOTICE:  Your previous config.sh list may be incorrect.
The extensions now available
 to you are
 ${avail_ext}
but the default list from your previous config.sh is
 ${static_ext}

EOM
   fi
   ;;
  esac
  ;;
 esac
 : Exclude those that are not xs extensions
 case "$dflt" in
 ") dflt=none;;
 esac
 rp="What extensions do you wish to include?"
 . ./myread
 case "$ans" in
?X: Use ' ' so a subsequent Configure will preserve that value.
 none) static_ext=' ' ;;
 *) static_ext="$ans" ;;
 esac
 ;;
esac
#
# Encode is a special case.  If we are building Encode as a static
# extension, we need to explicitly list its subextensions as well.
# For other nested extensions, this is handled automatically by
# the appropriate Makefile.PL.
case " $static_ext " in
 *" Encode "*) # Add the subextensions of Encode
 cd "$rsrc/cpan"
 for xxx in `ls Encode/*/Makefile.PL|awk -F/ '{print $2}'`; do
  static_ext="$static_ext Encode/$xxx"
  known_extensions="$known_extensions Encode/$xxx"
```

```
 done
 cd "$tdir"
 ;;
esac

set X $dynamic_ext $static_ext $nonxs_ext
shift
extensions="$*"

# Sanity check:
  We require an extension suitable for use with
# AnyDBM_File, as well as Fcntl and IO.  (Failure to have these
# should show up as failures in the test suite, but it's helpful to
# catch them now.) The 'extensions' list is normally sorted
# alphabetically, so we need to accept either
#    DB_File ... Fcntl ... IO  ....
# or something like
#    Fcntl ... NDBM_File ... IO  ....
case " $extensions"  in
*"_File "*" Fcntl "*" IO "*) ;; # DB_File
*" Fcntl "*"_File "*" IO "*) ;; # GDBM_File
*" Fcntl "*" IO "*"_File "*) ;; # NDBM_File
*) echo "WARNING: Extensions DB_File or *DBM_File, Fcntl, and IO not configured." >&4
  echo "WARNING: The Perl you are building will be quite crippled." >& 4
  ;;
esac

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/Extensions.U
No license file was found, but licenses were detected in source scan.

* Feel free to modify any of this as the need arises.  Note, however,

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/metaconfig.html
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_symlink.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: d_symlink.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:41  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_symlink: Inlibc
?MAKE: -pick add $@ %<
?S:d_symlink:
?S: This variable conditionally defines the HAS_SYMLINK symbol, which
?S: indicates to the C program that the symlink() routine is available
?S: to create symbolic links.
?S:.
?C:HAS_SYMLINK (SYMLINK):
?C: This symbol, if defined, indicates that the symlink routine is available
?C: to
 create symbolic links.
?C:.
?H:#$d_symlink HAS_SYMLINK /**/
?H:.
?LINT:set d_symlink
: see if symlink exists
set symlink d_symlink
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_symlink.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getnetent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getnetent_r getnetent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getnetent_r:
?S: This variable conditionally defines the HAS_GETNETENT_R symbol,
?S: which indicates to the C program that the getnetent_r()
?S: routine is available.
?S:.
?S:getnetent_r_proto:
?S: This variable encodes the prototype of getnetent_r.
?S: It is zero if d_getnetent_r is undef, and one of the
```

```
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getnetent_r
?S: is defined.
?S:.
?C:HAS_GETNETENT_R:
?C: This symbol, if defined, indicates that the getnetent_r routine
?C: is
 available to getnetent re-entrantly.
?C:.
?C:GETNETENT_R_PROTO:
?C: This symbol encodes the prototype of getnetent_r.
?C: It is zero if d_getnetent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getnetent_r
?C: is defined.
?C:.
?H:#$d_getnetent_r HAS_GETNETENT_R /**/
?H:#define GETNETENT_R_PROTO $getnetent_r_proto /**/
?H:.
?T:try hdrs d_getnetent_r_proto
: see if getnetent_r exists
set getnetent_r d_getnetent_r
eval $inlibc
case "$d_getnetent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getnetent_r_proto:$usethreads" in
 ":define") d_getnetent_r_proto=define
  set d_getnetent_r_proto getnetent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getnetent_r_proto" in
 define)
 case "$getnetent_r_proto" in
 "|0) try='int getnetent_r(struct netent*, char*, size_t, struct netent**, int*);'
 ./protochk "$extern_C $try" $hdrs && getnetent_r_proto=I_SBWRE ;;
 esac
 case "$getnetent_r_proto" in
 "|0) try='int getnetent_r(struct
 netent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && getnetent_r_proto=I_SBIE ;;
 esac
 case "$getnetent_r_proto" in
 "|0) try='struct netent* getnetent_r(struct netent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && getnetent_r_proto=S_SBIE ;;
 esac
 case "$getnetent_r_proto" in
 "|0) try='struct netent* getnetent_r(struct netent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getnetent_r_proto=S_SBI ;;
```

```
 esac
 case "$getnetent_r_proto" in
 "|0) try='int getnetent_r(struct netent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getnetent_r_proto=I_SBI ;;
 esac
 case "$getnetent_r_proto" in
 "|0) try='int getnetent_r(struct netent*, struct netent_data*);'
 ./protochk "$extern_C $try" $hdrs && getnetent_r_proto=I_SD ;;
 esac
 case "$getnetent_r_proto" in
 "|0) d_getnetent_r=undef
  getnetent_r_proto=0
  echo "Disabling getnetent_r, cannot determine prototype." >&4 ;;
 * ) case "$getnetent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getnetent_r_proto="REENTRANT_PROTO_$getnetent_r_proto"
 ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getnetent_r has no prototype, not using it." >&4 ;;
  esac
  d_getnetent_r=undef
  getnetent_r_proto=0
  ;;
 esac
 ;;
*) getnetent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getnetent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isinfl: Inlibc
?MAKE: -pick add $@ %<
?S:d_isinfl:
```

```
?S: This variable conditionally defines the HAS_ISINFL symbol, which
?S: indicates to the C program that the isinfl() routine is available.
?S:.
?C:HAS_ISINFL:
?C: This symbol, if defined, indicates that the isinfl routine is
?C: available to check whether a long double is an infinity.
?C:.
?H:#$d_isinfl HAS_ISINFL  /**/
?H:.
?LINT:set d_isinfl
: see if isinfl exists
set isinfl d_isinfl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_isinfl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2004 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strlcat: Inlibc Hasproto d_gnulibc
?MAKE: -pick add $@ %<
?S:d_strlcat:
?S: This variable conditionally defines the HAS_STRLCAT symbol, which
?S: indicates to the C program that the strlcat () routine is available.
?S:.
?C:HAS_STRLCAT:
?C: This symbol, if defined, indicates that the strlcat () routine is
?C: available to do string concatenation.
?C:.
?H:#$d_strlcat HAS_STRLCAT  /**/
?H:.
?T:d_strlcat_proto xx1 xx2 xx3 xx4
?LINT:set d_strlcat
: see if strlcat exists
: We need both a prototype in string.h and the symbol in libc.
echo " "
d_strlcat_proto=''
xx1="#$d_gnulibc HAS_GNULIBC"
xx2='#if defined(HAS_GNULIBC) && !defined(_GNU_SOURCE)'
xx3='#   define _GNU_SOURCE'
xx4='#endif'
```

```
set d_strlcat_proto
 strlcat literal "$xx1" literal "$xx2" literal "$xx3" literal "$xx4" define string.h
eval $hasproto
case "$d_strlcat_proto" in
   define) # see if strlcat exists
 set strlcat d_strlcat
 eval $inlibc
 ;;
   *)  val=$undef
 set d_strlcat
 eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strlcat.U
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```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_eaccess: Inlibc
?MAKE: -pick add $@ %<
?S:d_eaccess:
?S: This variable conditionally defines the HAS_EACCESS symbol, which
?S: indicates to the C program that the eaccess() routine is available.
?S:.
?C:HAS_EACCESS :
?C: This symbol, if defined, indicates that the eaccess routine is
?C: available to do extended access checks.
?C:.
?H:#$d_eaccess HAS_EACCESS  /**/
?H:.
?LINT:set d_eaccess
: see if eaccess exists
set eaccess d_eaccess
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/acl/d_eaccess.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_syscallproto: Hasproto i_unistd
?MAKE: -pick add $@ %<
?S:d_syscallproto:
?S: This variable conditionally defines the HAS_SYSCALL_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the syscall() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_SYSCALL_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the syscall() function.  Otherwise, it is up
?C: to the program to supply one.  Good guesses are
?C:  extern
 int syscall(int,  ...);
?C:  extern int syscall(long, ...);
?C:.
?H:#$d_syscallproto HAS_SYSCALL_PROTO /**/
?H:.
?LINT:set d_syscallproto
: see if prototype for syscall is available
echo " "
set d_syscallproto syscall $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_syscallproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_remainder: Inlibc
?MAKE: -pick add $@ %<
?S:d_remainder:
?S: This variable conditionally defines the HAS_REMAINDER symbol, which
?S: indicates to the C program that the remainder() routine is available.
?S:.
```

```
?C:HAS_REMAINDER:
?C: This symbol, if defined, indicates that the remainder routine is
?C: available to return the floating-point remainder.
?C:.
?H:#$d_remainder HAS_REMAINDER  /**/
?H:.
?LINT:set d_remainder
: see if remainder exists
set remainder d_remainder
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_remainder.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_safemcpy.U,v 3.0.1.5 1997/02/28 15:41:12 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_safemcpy.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  15:41:12  ram
?RCS: patch61: improved overlapping copy check
?RCS: patch61: comfort them if they have memmove
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.4  1995/07/25  13:58:46  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.3  1995/03/21  08:47:26  ram
?RCS: patch52: swapped two first arguments of memcpy() calls
?RCS:
?RCS:
 Revision 3.0.1.2  1994/10/29  16:15:10  ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:53:12  ram
?RCS: patch23: ensure string is not optimized in read-only memory (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:d_safemcpy: Compile cat d_memcpy rm_try run \
 d_memmove i_memory i_stdlib i_string i_unistd Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_safemcpy:
?S: This variable conditionally defines the HAS_SAFE_MEMCPY symbol if
?S: the memcpy() routine can do overlapping copies.
?S: For overlapping copies, memmove() should be used, if available.
?S:.
?C:HAS_SAFE_MEMCPY (SAFE_MEMCPY):
?C: This symbol, if defined, indicates that the memcpy routine is available
?C: to copy potentially overlapping memory blocks.  If you need to
?C: copy overlapping memory blocks, you should check HAS_MEMMOVE and
?C: use memmove() instead, if available.
?C:.
?H:#$d_safemcpy HAS_SAFE_MEMCPY /**/
?H:.
?F:!try
?LINT:
 set d_safemcpy
: can memcpy handle overlapping blocks?
echo " "
?X: assume the worst
val="$undef"
case "$d_memmove" in
"$define") echo "I'll use memmove() instead of memcpy() for overlapping copies." ;;
*) case "$d_memcpy" in
 "$define")
  echo "Checking to see if memcpy() can do overlapping copies..." >&4
  $cat >try.c <<EOCP
#$i_memory I_MEMORY
#$i_stdlib I_STDLIB
#$i_string I_STRING
#$i_unistd I_UNISTD
EOCP
 $cat >>try.c <<'EOCP'
#include <stdio.h>
#ifdef I_MEMORY
#  include <memory.h>
#endif
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#ifdef I_STRING
#  include <string.h>
#else
#  include <strings.h>
#endif
#ifdef I_UNISTD
```

```
#  include <unistd.h>  /* Needed for NetBSD */
#endif
int main()
{
char buf[128], abc[128];
char *b;
int len;
int off;
int align;

/* Copy "abcde..." string to char abc[] so that gcc doesn't
  try to store the string in read-only memory. */
memcpy(abc, "abcdefghijklmnopqrstuvwxyz0123456789", 36);

for (align = 7; align >=
 0; align--) {
 for (len = 36; len; len--) {
  b = buf+align;
  memcpy(b, abc, len);
  for (off = 1; off <= len; off++) {
   memcpy(b+off, b, len);
   memcpy(b, b+off, len);
   if (memcmp(b, abc, len))
    exit(1);
  }
 }
}
exit(0);
}
EOCP
  set try
  if eval $compile_ok; then
   if $run ./try 2>/dev/null; then
    echo "Yes, it can."
    val="$define"
   else
    echo "It can't, sorry."
   fi
  else
   echo "(I can't compile the test program, so we'll assume not...)"
  fi
  ;;
 esac
 $rm_try
 ;;
esac
set d_safemcpy
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_safemcpy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setpgrp.U,v 3.0.1.3 1997/02/28 15:44:16 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_setpgrp.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:44:16  ram
?RCS: patch61: obsoleted USE_BSDGRP in favor of USE_BSD_SETPGRP
?RCS: patch61: another unit now also defines a USE_BSD_GETPGRP
?RCS: patch61: fallback for test program failure improved
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  13:59:30  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:15:37  ram
?RCS: patch36: added
 'ldflags' to the test compile line (ADO)
?RCS: patch36: call ./usg explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setpgrp d_bsdsetpgrp: cat rm_try +cc +libs +ccflags \
 +ldflags Inlibc Guess Setvar i_unistd i_stdlib run
?MAKE: -pick add $@ %<
?S:d_setpgrp:
?S: This variable conditionally defines HAS_SETPGRP if setpgrp() is
?S: available to set the current process group.
?S:.
?S:d_bsdsetpgrp (d_bsdpgrp):
?S: This variable conditionally defines USE_BSD_SETPGRP if
?S: setpgrp needs two arguments whereas USG one needs none.
?S: See also d_setpgid for a POSIX interface.
?S:.
?C:HAS_SETPGRP (SETPGRP):
?C: This symbol, if defined, indicates that the setpgrp routine is
?C: available to set the current process group.
```

```
?C:.
?C:USE_BSD_SETPGRP (USE_BSDPGRP BSDPGRP):
?C: This symbol, if defined, indicates that setpgrp needs two
?C: arguments whereas USG one needs none.  See also HAS_SETPGID
?C: for
 a POSIX interface.
?C:.
?H:#$d_setpgrp HAS_SETPGRP  /**/
?H:#$d_bsdsetpgrp USE_BSD_SETPGRP /**/
?H:.
?T:xxx
?F:!try
?LINT:set d_setpgrp d_bsdsetpgrp
: see if setpgrp exists
set setpgrp d_setpgrp
eval $inlibc

@if USE_BSD_SETPGRP || d_bsdsetpgrp
case "$d_setpgrp" in
"$define")
 echo " "
 echo "Checking to see which flavor of setpgrp is in use..."
 $cat >try.c <<EOP
#include <stdio.h>
#$i_unistd I_UNISTD
#include <sys/types.h>
#ifdef I_UNISTD
#  include <unistd.h>
#endif
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
{
 if (getuid() == 0) {
  printf("(I see you are running Configure as super-user...)\n");
  setuid(1);
 }
#ifdef TRY_BSD_PGRP
 if (-1 == setpgrp(1, 1))
  exit(0);
#else
 if (setpgrp() != -1)
  exit(0);
#endif
 exit(1);
}
```

```
EOP
 if $cc -o try -DTRY_BSD_PGRP $ccflags $ldflags try.c $libs >/dev/null 2>&1 && $run ./try; then
  echo 'You have to use setpgrp(pid,pgrp) instead of setpgrp().' >&4
  val="$define"
 elif $cc -o try $ccflags $ldflags try.c $libs
 >/dev/null 2>&1 && $run ./try; then
  echo 'You have to use setpgrp() instead of setpgrp(pid,pgrp).' >&4
  val="$undef"
 else
  echo "(I can't seem to compile and run the test program.)"
  if ./usg; then
   xxx="a USG one, i.e. you use setpgrp()."
  else
   # SVR4 systems can appear rather BSD-ish.
   case "$i_unistd" in
   $undef)
    xxx="a BSD one, i.e. you use setpgrp(pid,pgrp)."
    val="$define"
    ;;
   $define)
    xxx="probably a USG one, i.e. you use setpgrp()."
    val="$undef"
    ;;
   esac
  fi
  echo "Assuming your setpgrp is $xxx" >&4
 fi
 ;;
*) val="$undef";;
esac
set d_bsdsetpgrp
eval $setvar
$rm_try
@end
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_setpgrp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Myread.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Myread.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  15:05:39  ram
?RCS: patch61: myread script now starts with a "startsh"
?RCS: patch61: miscellaneous fixes
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:14:22  ram
?RCS: patch45: added & escape allowing user to turn on -d from the prompt
?RCS:
?RCS: Revision 3.0.1.4  1994/10/31  09:48:04  ram
?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U
?RCS:
?RCS: Revision 3.0.1.3  1994/10/29
  15:56:20  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.2  1993/08/30  08:57:59  ram
?RCS: patch8: added new visible 'nostick' symbol, mainly for Finish.U
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:39:20  ram
?RCS: patch7: now sticks to the question when no default and empty answer
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to do a read.  It allows for shell escapes, default assignment and
?X: parameter evaluation.
?X:
?X: To use this unit, $rp and $dflt must hold the question and the
?X: default answer. The question will be printed by the script itself.
?X: Neither $rp nor $dflt is altered by the script.
?X:
?X: The myread script will stick to the question if no default is proposed
?X: and the user answer is empty, which prevents mistakes. However, at the
?X: end of Configure, there is an exception
 to this rule (Finish.U) where we
?X: set nostick to a non-empty value to allow the Return key to play its role!
?X:
?MAKE:Myread: Options startsh n c trnl
?MAKE: -pick add $@ %<
?V:ans:dflt rp nostick
?F:./myread
?T:COLUMNS xxxm rp dflt answ aok myecho
?LINT:change fastread
?X: Some shells (Ultrix) do not understand ${COLUMNS:-80}, sigh!
```

```
: compute the number of columns on the terminal for proper question formatting
case "$COLUMNS" in
") COLUMNS='80';;
esac

: set up the echo used in my read
?X:
?X: This variable is intended to be eval'ed. It will echo the two
?X: variables $rp and $dflt (provided this latter has a non null value).
?X: It is mainly used by the myread script to echo the questions.
?X:
?X: The $n and $c below are substituted before Loc does its silly echo check
?X: so don't put a $ on the echo below so we get builtin, even if $echo is
?X: pointing to /bin/echo.
?X:
myecho="case \"\$xxxm\" in
") echo $n \"\$rp $c\" >&4;;
*) case \"\$rp\" in
 ") echo $n \"[\$xxxm] $c\";;
 *)
  if
 test \`echo \"\$rp [\$xxxm]  \" | wc -c\` -ge $COLUMNS; then
   echo \"\$rp\" >&4
   echo $n \"[\$xxxm] $c\" >&4
  else
   echo $n \"\$rp [\$xxxm] $c\" >&4
  fi
  ;;
 esac;;
esac"

: now set up to do reads with possible shell escape and default assignment
cat <<EOSC >myread
$startsh
?X:
?X: Save value of default -- do not alter original in case of eval
?X:
xxxm=\$dflt
$myecho
?X:
?X: If there is no default, then stop, regardless of the value in fastread.
?X: In silent mode, no new-line is to be echoed if the question is empty,
?X: since this is used to wait for the "return" key.
?X:
ans='!'
case "\$fastread" in
yes) case "\$dflt" in
 ") ;;
```

```
 *) ans='';
  case "\$silent-\$rp" in
  true-) ;;
  *) echo " " >&4;;
  esac;;
 esac;;
*) case "\$silent" in
 true) case "\$rp" in
  '') ans='';;
  esac;;
 esac;;
esac
while expr "X\$ans" : "X!" >/dev/null; do
 read answ
?X:
?X: Run 'eval' on the answer, in order to do variable substitution, in case
?X: the user types $HOME or $WHATEVER.
 Variables must be evaluated now.
?X: Typing '\$HOME' won't currently prevent from substitution -- use '\\$HOME'
?X: The $1 .. $9 and $*, as well as $@, are available to refer to the
?X: default value.
?X:
 set x \$xxxm
 shift
 aok=''; eval "ans=\\"\$answ\\"" && aok=y
 case  "\$answ" in
?X:
?X: Use "!" and not a plain ! because of a bug in BSD 4.4 shell
?X: (reported by Wayne Davison)
?X: We must handle the shell escapes before dealing with possible variable
?X: substitution, since the shell we're launching in that case will be able
?X: to do it as well as we can -- RAM, 15/03/96
?X
 "!")
  sh 1>&4
  echo " "
  $myecho
  ;;
 !*)
  set x \`expr "X\$ans" : "X!\(.*\)\$"\`
  shift
  sh 1>&4 -c "\$*"
  echo " "
  $myecho
  ;;
 "\$ans")
  case "\$ans" in
?X:
```

```
?X: Answers starting with & are hooks allowing to dynamically turn on/off
?X: some Configure options. That's for the future. -- RAM, 09/01/95
?X: Today, we only recognize '& -d' to mean 'go on as if Configure -d, which
?X: is a hardwired
 behaviour compatible with our general scheme.
?X:
  \\&*)
   set x \`expr "X\$ans" : "X&\(.*\)\$"\`
   shift
   case "\$1" in
   -d)
    fastread=yes
    echo "(OK, I'll run with -d after this question.)" >&4
    ;;
   -*)
    echo "*** Sorry, \$1 not supported yet." >&4
    ;;
   esac
   $myecho
   ans=!
   ;;
  esac;;
 *)
  case "\$aok" in
  y)
   echo "*** Substitution done -- please confirm."
   xxxm="\$ans"
   ans=\`echo $n "\$ans$c" | tr '$trnl' ' '\`
   xxxm="\$ans"
   ans=!
   ;;
  *)
   echo "*** Error -- try again."
   ans=!
   ;;
  esac
  $myecho
  ;;
 esac
?X: Stick in myread if no default answer and nothing was answered
 case "\$ans\$xxxm\$nostick" in
 ")
  ans=!
  $myecho
  ;;
 esac
done
case "\$ans" in
```

```
") ans="\$xxxm";;
esac
EOSC
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Myread.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:usemultiplicity: useithreads Myread Oldconfig Setvar
?MAKE: -pick add $@ %<
?Y:TOP
?S:usemultiplicity:
?S: This variable conditionally defines the MULTIPLICITY symbol,
?S: and indicates that Perl should be built to use multiplicity.
?S:.
?C:MULTIPLICITY:
?C: This symbol, if defined, indicates that Perl should
?C: be built to use multiplicity.
?C:.
?H:?%<:#ifndef MULTIPLICITY
?H:?%<:#$usemultiplicity MULTIPLICITY  /**/
?H:?%<:#endif
?H:.
?LINT:set usemultiplicity
?INIT:: set usemultiplicity on the Configure command line to enable multiplicity.
: Check if multiplicity is required
?X: We should really have some explanatory text here, and some
?X: automatic setting of sensible defaults.
cat <<EOM

Perl
 can be built so that multiple Perl interpreters can coexist
within the same Perl executable.
EOM

case "$useithreads" in
$define)
 cat <<EOM
This multiple interpreter support is required for interpreter-based threads.
EOM
```

```
 val="$define"
 ;;
*) case "$usemultiplicity" in
 $define|true|[yY]*) dflt='y';;
 *) dflt='n';;
 esac
 echo " "
 echo "If this doesn't make any sense to you, just accept the default '$dflt'."
 rp='Build Perl for multiplicity?'
 . ./myread
 case "$ans" in
 y|Y) val="$define" ;;
 *)      val="$undef" ;;
 esac
 ;;
esac
set usemultiplicity
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/usemultiplicity.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Csym.U,v 3.0.1.4 1995/07/25 13:36:29 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Csym.U,v $
?RCS: Revision 3.0.1.4  1995/07/25  13:36:29  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS: patch56: added quotes for OS/2 support
?RCS:
?RCS: Revision 3.0.1.3  1995/05/12  12:00:33  ram
?RCS: patch54: fixed C test program to bypass gcc builtin type checks (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/10/31  09:34:13  ram
?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U
?RCS:
?RCS: Revision
 3.0.1.1  1993/08/25  14:00:05  ram
?RCS: patch6: added ldflags as a conditional dependency and to compile line
```

```
?RCS: patch6: a final double quote was missing in csym variable after eval
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:Csym mistrustnm extern_C: Options contains libc libs runnm test \
 +cc +optimize +ccflags +ldflags run rm_try _exe d_cplusplus
?MAKE: -pick add $@ %<
?LINT:define csym
?LINT:use libc
?LINT:extern mistrustnm
?LINT:set mistrustnm
?S:csym:
?S: This shell variable is used internally by Configure to check
?S: whether a given C symbol is defined or not. A typical use is:
?S:  set symbol result [-fva] [previous]
?S:  eval $csym
?S: That will set result to 'true' if the function [-f], variable [-v]
?S: or array [-a] is defined, 'false' otherwise. If a previous value is
?S: given and the -r flag was provided on the command line, that value
?S: is reused without questioning.
?S:.
?S:extern_C:
?S: ANSI C
 requires 'extern' where C++ requires 'extern "C"'. This
?S: variable can be used in Configure to do the right thing.
?S:.
?S:mistrustnm:
?S: This variable can be used to establish a fallthrough for the cases
?S: where nm fails to find a symbol.  If usenm is false or usenm is true
?S: and mistrustnm is false, this variable has no effect.  If usenm is true
?S: and mistrustnm is "compile", a test program will be compiled to try to
?S: find any symbol that can't be located via nm lookup.  If mistrustnm is
?S: "run", the test program will be run as well as being compiled.
?S:.
?V:csym
?T:tval tx tlook tf tdc
?F:!try
: is a C symbol defined?
csym='tlook=$1;
case "$3" in
-v) tf=libc.tmp; tdc="";;
-a) tf=libc.tmp; tdc="[]";;
*) tlook="^$1\$"; tf=libc.list; tdc="()";;
esac;
case "$d_cplusplus" in
   $define) extern_C="extern \"C\"" ;;
   *)  extern_C="extern" ;;
```

```
esac;
tx=yes;
case "$reuseval-$4" in
true-) ;;
true-*) tx=no; eval "tval=\$$4"; case "$tval" in "") tx=yes;; esac;;
esac;
case "$tx"
 in
yes)
?X:
?X: Put symbol inside a printf to fool optimizing compilers...
?X:
?X: We use 'short' instead of 'int' to try to circumvent overzealous
?X: optimizing compilers using built-in prototypes for commonly used
?X: routines to complain when seeing a different external declaration. For
?X: instance, gcc 2.6.3 fails if we use 'int' and we attempt a test against
?X: memcpy() on machines where sizeof(int) == sizeof(char *) (the usual return
?X: type), the compiler assuming it's a built-in declaration given that the
?X: returned size matches. At least with 'short' we are safe! -- RAM, for ADO
?X:
?X: Let's thank GNU cc for making our lives so easy! :-)
?X: (An alternative for the future would be to use our knowledge about gcc
?X: to force a -fno-builtin option in the compile test, in case the 'short'
?X: trick is obsoleted by future gcc releases). -- RAM
?X:
 tval=false;
 if $test "$runnm" = true; then
  if $contains $tlook $tf >/dev/null 2>&1; then
   tval=true;
  elif $test "$mistrustnm"
 = compile -o "$mistrustnm" = run; then
   echo "$extern_C void *$1$tdc; void *(*(p()))$tdc { return &$1; } int main(int argc, char **argv) { if(p() && p() !=
(void *)argv[0]) return(0); else return(1); }"> try.c;
   $cc -o try $optimize $ccflags $ldflags try.c >/dev/null 2>&1 $libs && tval=true;
   $test "$mistrustnm" = run -a -x try && { $run ./try$_exe >/dev/null 2>&1 || tval=false; };
   $rm_try;
  fi;
 else
  echo "$extern_C void *$1$tdc; void *(*(p()))$tdc { return &$1; } int main(int argc, char **argv) { if(p() && p() !=
(void *)argv[0]) return(0); else return(1); }"> try.c;
  $cc -o try $optimize $ccflags $ldflags try.c $libs >/dev/null 2>&1 && tval=true;
  $rm_try;
 fi;
 ;;
*)
 case "$tval" in
 $define) tval=true;;
 *) tval=false;;
```

```
 esac;
 ;;
esac;
eval "$2=$tval"'
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/Csym.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setnetent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_setnetent_r setnetent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_setnetent_r:
?S: This variable conditionally defines the HAS_SETNETENT_R symbol,
?S: which indicates to the C program that the setnetent_r()
?S: routine is available.
?S:.
?S:setnetent_r_proto:
?S: This variable encodes the prototype of setnetent_r.
?S: It is zero if d_setnetent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setnetent_r
?S: is defined.
?S:.
?C:HAS_SETNETENT_R:
?C: This symbol, if defined, indicates that the setnetent_r routine
?C: is
 available to setnetent re-entrantly.
?C:.
?C:SETNETENT_R_PROTO:
?C: This symbol encodes the prototype of setnetent_r.
?C: It is zero if d_setnetent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setnetent_r
?C: is defined.
?C:.
?H:#$d_setnetent_r HAS_SETNETENT_R /**/
?H:#define SETNETENT_R_PROTO $setnetent_r_proto /**/
?H:.
?T:try hdrs d_setnetent_r_proto
: see if setnetent_r exists
```

```
set setnetent_r d_setnetent_r
eval $inlibc
case "$d_setnetent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_setnetent_r_proto:$usethreads" in
 ":define") d_setnetent_r_proto=define
  set d_setnetent_r_proto setnetent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_setnetent_r_proto" in
 define)
 case "$setnetent_r_proto" in
 "|0) try='int setnetent_r(int, struct netent_data*);'
 ./protochk "$extern_C $try" $hdrs && setnetent_r_proto=I_ID ;;
 esac
 case "$setnetent_r_proto" in
 "|0) try='void setnetent_r(int, struct netent_data*);'
 ./protochk
 "$extern_C $try" $hdrs && setnetent_r_proto=V_ID ;;
 esac
 case "$setnetent_r_proto" in
 "|0) d_setnetent_r=undef
  setnetent_r_proto=0
  echo "Disabling setnetent_r, cannot determine prototype." >&4 ;;
 * ) case "$setnetent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) setnetent_r_proto="REENTRANT_PROTO_$setnetent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "setnetent_r has no prototype, not using it." >&4 ;;
  esac
  d_setnetent_r=undef
  setnetent_r_proto=0
  ;;
 esac
 ;;
*) setnetent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_setnetent_r.U

No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2012-2012, H.Merijn Brand
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: H.Merijn Brand
?RCS:
?MAKE:d_isblank: cc cat ccflags ldflags rm libs Setvar
?MAKE: -pick add $@ %<
?S:d_isblank:
?S: This variable conditionally defines the HAS_ISBLANK constant,
?S: which indicates to the C program that isblank() is available.
?S:.
?C:HAS_ISBLANK:
?C: This manifest constant lets the C program know that isblank
?C: is available.
?C:.
?H:#$d_isblank HAS_ISBLANK  /**/
?H:.
?LINT:set d_isblank
?X: Can't use Inlibc because isblank() might be a macro.
: Look for isblank
echo " "
$cat >isblank.c <<'EOCP'
#include
 <stdio.h>
#include <ctype.h>
int main() {
 int c = ' ';
 if (isblank(c))
  return 0 ;
 else
  return 1 ;
}
EOCP
if $cc $ccflags $ldflags -o isblank isblank.c $libs >/dev/null 2>&1 ; then
 echo "isblank() found." >&4
 val="$define"
else
 echo "isblank() NOT found." >&4
 val="$undef"
fi
set d_isblank
```

```
eval $setvar
$rm -f isblank*
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_isblank.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: lib.U,v $
?RCS: Revision 3.0.1.3  1995/09/25  09:16:47  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:38:08  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:27:40  ram
?RCS: patch32: now uses installation prefix to set the default
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lib libexp: Getfile
 Loc Oldconfig Prefixit Prefixup prefixexp
?MAKE: -pick add $@ %<
?Y:TOP
?S:lib:
?S: This variable holds the name of the directory in which the user wants
?S: to put public library files for the package in question.  It is most
?S: often a local directory such as /usr/local/lib. Programs using this
?S: variable must be prepared to deal with filename expansion.
?S:.
?S:libexp:
?S: This variable is the same as the lib variable, but is filename expanded
?S: at configuration time, for convenient use in your makefiles.
?S:.
: determine where public libraries go
set lib lib
eval $prefixit
```

```
case "$lib" in
")
 dflt=`./loc . "." $prefixexp/lib /usr/local/lib /usr/lib /lib`
 set dflt
 eval $prefixup
 ;;
*)  dflt="$lib";;
esac
echo " "
fn=d~
rp='Where do you want to put the public libraries?'
. ./getfile
lib="$ans"
libexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/lib.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_quadmath: Inhdr
?MAKE: -pick add $@ %<
?S:i_quadmath:
?S: This variable conditionally defines I_QUADMATH, which indicates
?S: to the C program that it should include <quadmath.h>.
?S:.
?C:I_QUADMATH:
?C: This symbol, if defined, indicates that <quadmath.h> exists and
?C: should be included.
?C:.
?H:#$i_quadmath I_QUADMATH  /**/
?H:.
?LINT:set i_quadmath
: see if this is a quadmath.h system
set quadmath.h i_quadmath
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_quadmath.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
```

```
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X: This unit generates a $hasfield string that is used internally
?X: by Configure to check if this system has a field for a
?X: particular struct (of if this system has a particular struct!)
?X:
?X: To use it, say something like:
?X:  set d_statblocks stat st_blocks i_sysstat sys/stat.h
?X:  eval $hasfield
?X: Or, for more complicated sets of headers, do something like
?X: hdrs="$define sys/foo.h
?X:  $i_sysbar sys/bar.h
?X:  $i_syszot sys/zot.h
?X:  $i_zappa zappa.h"
?X: set d_statblocks stat st_blocks $hdrs
?X: eval $hasfield
?X:
?MAKE:Hasfield: Setvar rm_try test Compile
?MAKE: -pick add $@ %<
?T:varname struct field
?V:hasfield
: Define hasfield macro for Configure internal use
hasfield='varname=$1;
 struct=$2; field=$3; shift; shift; shift;
while $test $# -ge 2; do
 case "$1" in
 $define) echo "#include <$2>";;
 esac ;
   shift 2;
done > try.c;
echo "int main () { struct $struct foo; char* bar; bar = (char*)foo.$field; }" >> try.c;
set try;
if eval $compile; then
 val="$define";
else
 val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try'
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/Hasfield.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getnetprotos.U,v $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_getnetprotos : Hasproto i_netdb
?MAKE: -pick add $@ %<
?S:d_getnetprotos:
?S: This variable conditionally defines the HAS_GETNET_PROTOS symbol,
?S: which indicates to the C program that <netdb.h> supplies
?S: prototypes for the various getnet*() functions.
?S: See also netdbtype.U for probing for various netdb types.
?S:.
?C:HAS_GETNET_PROTOS:
?C: This symbol, if defined, indicates that <netdb.h> includes
?C: prototypes for getnetent(), getnetbyname(), and
?C: getnetbyaddr().  Otherwise,
 it is up to the program to guess
?C: them.  See netdbtype.U for probing for various Netdb_xxx_t types.
?C:.
?H:#$d_getnetprotos HAS_GETNET_PROTOS /**/
?H:.
?LINT:set d_getnetprotos
: see if prototypes for various getnetxxx netdb.h functions are available
echo " "
set d_getnetprotos getnetent $i_netdb netdb.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/d_getnetprotos.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_socks.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_socks: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_socks:
```

```
?S: This variable conditionally defines the I_SOCKS symbol, and indicates
?S: whether a C program should include <socks.h>.
?S:.
?C:I_SOCKS:
?C: This symbol, if defined, indicates that <socks.h> exists and
?C: should be included.
?C:.
?H:#$i_socks I_SOCKS  /**/
?H:.
?LINT:set i_socks
: see if this is a socks.h system
set socks.h i_socks
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_socks.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_psignal.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_psignal.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:49  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_psignal: Inlibc
?MAKE: -pick add $@ %<
?S:d_psignal:
?S: This variable conditionally defines the HAS_PSIGNAL symbol, which
?S: indicates that the psignal() routine exists.  The psignal() routine
?S: prints a description of a signal on the standard error output.
?S:.
?C:HAS_PSIGNAL (PSIGNAL):
?C: This symbol, if defined, indicates
 that the psignal() routine exists.
?C:.
?H:#$d_psignal HAS_PSIGNAL  /**/
?H:.
?LINT:set d_psignal
: see if psignal exists
```

```
set psignal d_psignal
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_psignal.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fdim: Inlibc
?MAKE: -pick add $@ %<
?S:d_fdim:
?S: This variable conditionally defines the HAS_FDIM symbol, which
?S: indicates to the C program that the fdim() routine is available.
?S:.
?C:HAS_FDIM:
?C: This symbol, if defined, indicates that the fdim routine is
?C: available to do the positive difference function.
?C:.
?H:#$d_fdim HAS_FDIM  /**/
?H:.
?LINT:set d_fdim
: see if fdim exists
set fdim d_fdim
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fdim.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Warn.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extract.U,v $
?X:
?X: This unit produces a shell script which can be run in order to emit
?X: an important warning to the user, which will be remembered and shown
?X: at the end of the Configure run as well.
```

```
?X:
?X: A typical use would be:
?X:
?X:  ./warn <<EOM
?X:  Problem with your C compiler: can't turn debugging on.
?X:  EOM
?X:
?X: or:
?X:
?X:  ./warn "Problem with your C compiler: can't turn debugging on."
?X:
?X: Which will both display to the user:
?X:
?X:  ***
 WARNING:
?X:  *** Problem with your C compiler: can't turn debugging on.
?X:  ***
?X:
?MAKE:Warn: startsh eunicefix
?MAKE: -pick add $@ %<
?F:./warn
: script used to emit important warnings
cat >warn <<EOS
$startsh
?X: Read the whole warning message from stdin into a temporary file
?X: when no argument was supplied.
if test \$# -gt 0; then
 echo "\$@" >msg
else
 cat >msg
fi
?X: Emit the warning, prefixing all lines with '*** '
echo "*** WARNING:" >&4
sed -e 's/^/*** /' <msg >&4
echo "*** " >&4
?X: Save the warning in the logs, which will be shown again at the end
cat msg >>config.msg
echo " " >>config.msg
rm -f msg
EOS
chmod +x warn
$eunicefix warn
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Warn.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_nan: Inlibc
?MAKE: -pick add $@ %<
?S:d_nan:
?S: This variable conditionally defines HAS_NAN if nan() is
?S: available to generate NaN.
?S:.
?C:HAS_NAN:
?C: This symbol, if defined, indicates that the nan routine is
?C: available to generate NaN.
?C:.
?H:#$d_nan HAS_NAN  /**/
?H:.
?LINT:set d_nan
: see if nan exists
set nan d_nan
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_nan.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strerror.U,v 3.0.1.3 1994/05/13 15:20:27 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_strerror.U,v $
?RCS: Revision 3.0.1.3  1994/05/13  15:20:27  ram
?RCS: patch27: now uses new macro support for cleaner Strerror def
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  14:58:26  ram
?RCS: patch23: renamed strerror into Strerror to protect name space (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:08:56  ram
?RCS: patch16: protected code looking for sys_errnolist[] with @if
?RCS: patch16: added default value for d_sysernlst
?RCS:
?RCS: Revision
```

```
 3.0  1993/08/18  12:07:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_syserrlst d_sysernlst: Csym Findhdr
?MAKE: -pick add $@ %<
?S:d_syserrlst:
?S: This variable conditionally defines HAS_SYS_ERRLIST if sys_errlist[] is
?S: available to translate error numbers to strings.
?S:.
?S:d_sysernlst:
?S: This variable conditionally defines HAS_SYS_ERRNOLIST if sys_errnolist[]
?S: is available to translate error numbers to the symbolic name.
?S:.
?C:HAS_SYS_ERRLIST (SYSERRLIST):
?C: This symbol, if defined, indicates that the sys_errlist array is
?C: available to translate error numbers to strings. The extern int
?C: sys_nerr gives the size of that table.
?C:.
?C:HAS_SYS_ERRNOLIST (SYSERRNOLIST):
?C: This symbol, if defined, indicates that the sys_errnolist array is
?C: available to translate an errno code into its symbolic name (e.g.
?C: ENOENT). The extern int sys_nerrno gives the size of that table.
?C:.
?H:#$d_syserrlst HAS_SYS_ERRLIST /**/
?H:#$d_sysernlst HAS_SYS_ERRNOLIST /**/
?H:.
?D:d_sysernlst=''
?T:val
:
 see if sys_errlist[] exists
echo " "
if test "X$d_syserrlst" = X; then
 if set sys_errlist val -a d_syserrlst; eval $csym; $val; then
  echo "You have sys_errlist[], so we could roll our own strerror."
  d_syserrlst="$define"
 else
  echo "You don't have sys_errlist[], so strerror() is welcome."
  d_syserrlst="$undef"
 fi
fi
@if d_sysernlst || HAS_SYS_ERRNOLIST
if set sys_errnolist val -a d_sysernlst; eval $csym; $val; then
 echo "(Symbolic error codes can be fetched via the sys_errnolist[] array.)"
 d_sysernlst="$define"
else
 echo "(However, I can't extract the symbolic error code out of errno.)"
 d_sysernlst="$undef"
fi
```

@end

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_strerror.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_dlopen.U,v 3.0.1.2 1995/07/25 13:52:56 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_dlopen.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  13:52:56  ram
?RCS: patch56: force compile-link test since symbol might lie in crt0.o (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:34  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_dlopen: Inlibc runnm d_cplusplus ccflags gccversion
?MAKE: -pick add $@ %<
?S:d_dlopen:
?S: This variable conditionally defines the HAS_DLOPEN
 symbol, which
?S: indicates to the C program that the dlopen() routine is available.
?S:.
?C:HAS_DLOPEN :
?C: This symbol, if defined, indicates that the dlopen routine is
?C: available.
?C:.
?H:#$d_dlopen HAS_DLOPEN  /**/
?H:.
?T: xxx_runnm
?T: xxx_ccflags
?LINT:set d_dlopen
?X: We don't permanently change runnm and ccflags, but we do temporarily.
?LINT: change runnm
?LINT: change ccflags
: see if dlopen exists
?X: On NetBSD and FreeBSD, dlopen is available, but it is in
?X: /usr/lib/crt0.o, not in any of the libraries.  Therefore, do not
```

```
?X: use the nm extraction, but use a real compile and link test instead.
xxx_runnm="$runnm"
xxx_ccflags="$ccflags"
runnm=false
: with g++ one needs -shared to get is-in-libc to work for dlopen
case "$gccversion" in
") ;;
*Clang*) ;;
*) case "$d_cplusplus" in
 "$define") ccflags="$ccflags -shared" ;;
 esac
 ;;
esac
set dlopen d_dlopen
eval $inlibc
runnm="$xxx_runnm"
ccflags="$xxx_ccflags"
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_dlopen.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: pidtype.U,v 3.0.1.1 1994/08/29 16:31:27 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: pidtype.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:31:27  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:33  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:pidtype: Myread Typedef
?MAKE: -pick add $@ %<
?S:pidtype:
?S: This variable defines PIDTYPE to be something like pid_t, int,
?S: ushort, or whatever type is used to declare process ids in the kernel.
?S:.
?C:Pid_t (PIDTYPE):
?C: This
```

```
 symbol holds the type used to declare process ids in the kernel.
?C: It can be int, uint, pid_t, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Pid_t $pidtype  /* PID type */
?H:.
?LINT: set pidtype
: see what type pids are declared as in the kernel
rp="What is the type of process ids on this system?"
set pid_t pidtype int stdio.h sys/types.h
eval $typedef_ask
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/pidtype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Head.U,v $
?RCS: Revision 3.0.1.9  1997/02/28  15:02:09  ram
?RCS: patch61: make sure we unset CDPATH for shells that support this
?RCS: patch61: improved Korn shell detection and handling
?RCS:
?RCS: Revision 3.0.1.8  1995/07/25  13:40:02  ram
?RCS: patch56: added SVR4-ish /opt directories to path list (ADO)
?RCS: patch56: OS/2 platforms are using another path separator
?RCS:
?RCS: Revision 3.0.1.7  1995/03/21  08:46:15  ram
?RCS: patch52: definition of paths wrongly added spurious ':' chars
?RCS:
?RCS:
 Revision 3.0.1.6  1994/10/29  15:54:19  ram
?RCS: patch36: make sure ENV is unset before calling /bin/ksh
?RCS:
?RCS: Revision 3.0.1.5  1994/08/29  16:03:44  ram
?RCS: patch32: now sets PATH only using existing directories
?RCS:
?RCS: Revision 3.0.1.4  1994/06/20  06:54:28  ram
?RCS: patch30: now computes its invocation name into 'me'
```

```
?RCS: patch30: symbol me is made visible to all units read-only
?RCS:
?RCS: Revision 3.0.1.3  1993/12/15  08:15:07  ram
?RCS: patch15: added /sbin:/usr/sbin:/usr/libexec in PATH for BSD/386
?RCS:
?RCS: Revision 3.0.1.2  1993/11/10  17:32:35  ram
?RCS: patch14: ensure PATH is reset to '.' before testing for alias
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:38:07  ram
?RCS: patch7: not all 'test' programs support the -x option
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This is the very first unit in the Configure script.  It is mostly just
?X: things to keep people from getting
 into a tizzy right off the bat.
?X:
?MAKE:Head:
?MAKE: -pick wipe $@ %<
?V:PATH p_ _exe me newsh
?T:argv Id p paths OS2_SHELL DJGPP
?T:inksh needksh avoidksh newsh changesh reason
?F:!*
?LINT:extern ENV CDPATH SHELL MACHTYPE
?LINT:change ENV CDPATH
?LINT:nocomment
#! /bin/sh
#
# If these # comments don't work, trim them. Don't worry about any other
# shell scripts, Configure will trim # comments from them for you.
#
# (If you are trying to port this package to a machine without sh,
# I would suggest you have a look at the prototypical config_h.SH file
# and edit it to reflect your system. Some packages may include samples
# of config.h for certain machines, so you might look for one of those.)
#
?X:
?X: NOTE THAT A CONFIGURE SCRIPT IS IN THE PUBLIC DOMAIN (whether or not
?X: the software which uses it is in the public domain).
?X:
# Yes, you may rip this off to use in other distribution packages. This
# script belongs to the public domain and cannot be copyrighted.
#
?X:
?X: WE ASK YOU
```

```
 NOT TO REMOVE OR ALTER THE FOLLOWING PARAGRAPH, PLEASE:
?X:
# Note: this Configure script was generated automatically. Rather than
# working with this copy of Configure, you may wish to get metaconfig.
# The dist package (which contains metaconfig) is available via SVN:
#     svn co https://svn.code.sf.net/p/dist/code/trunk/dist
?X:
?X: NOTA BENE:
?X: If you develop you own version of metaconfig based on this work,
?X: you have to add some comments telling that the script was generated
?X: by your version, not mine: It credits your work.
?X:

# $Id: Head.U 6 2006-08-25 22:21:46Z rmanfredi $
#
# Generated on <DATE> [metaconfig <VERSION> PL<PATCHLEVEL>]

cat >c1$$ <<EOF
ARGGGHHHH!!!!!

SCO csh still thinks true is false.  Write to SCO today and tell them that next
year Configure ought to "rm /bin/csh" unless they fix their blasted shell. :-)

(Actually, Configure ought to just patch csh in place.  Hmm.  Hmmmmm.  All
we'd have to do is go in and swap the && and || tokens, wherever they are.)

[End
 of diatribe. We now return you to your regularly scheduled programming...]
EOF
cat >c2$$ <<EOF

OOPS!  You naughty creature!  You didn't run Configure with sh!
I will attempt to remedy the situation by running sh for you...
EOF

true || cat c1$$ c2$$
true || exec sh $0 $argv:q

(exit $?0) || cat c2$$
(exit $?0) || exec sh $0 $argv:q
rm -f c1$$ c2$$

: compute my invocation name
me=$0
case "$0" in
*/*)
 me=`echo $0 | sed -e 's!.*/\(.*\)!\1!' 2>/dev/null`
 test "$me" || me=$0
```

```
 ;;
esac

?X:
?X: To be able to run under OS/2, we must detect that early enough to use
?X: the proper path separator, stored in $p_. It is : on UNIX and ; on
?X: DOSish systems such as OS/2.
?X:
: Proper separator for the PATH environment variable
p_=:
: On OS/2 this directory should exist if this is not floppy only system ":-]"
if test -d c:/. ; then
 if test -n "$OS2_SHELL"; then
  p_=\;
  PATH=`cmd /c "echo %PATH%" | tr '\\\\' / `
?X: That's a bug in ksh5.22
  OS2_SHELL=`cmd /c "echo %OS2_SHELL%" | tr
 '\\\\' / | tr '[A-Z]' '[a-z]'`
 elif test -n "$DJGPP"; then
  case "X${MACHTYPE:-nonesuchmach}" in
  *cygwin) ;;
  *) p_=\; ;;
  esac
 fi
fi

?X:
?X: There are two schools of thoughts here. Some people correctly argue that
?X: the user has a better chance than we do of setting a reasonable PATH and
?X: others argue that Configure is the best place there is to set up a suitable
?X: PATH. Well, here we try to compromize by keeping the user's PATH and
?X: appending some directories which are known to work on some machine or the
?X: other. The rationale behind this being that a novice user might not have a
?X: proper environment variable set, and some directories like /etc (where
?X: chown is located on some BSD systems) may be missing--RAM.
?X:
?X: SVR4 adds an /opt directory for optional packages.  Some sites use
?X: various permutations on /opt as opposed to /usr or /usr/local.-- ADO
?X:
?X: We only add directories that are not already in the PATH of the
?X: user and the directories must
 exist also.
?X:
: Proper PATH setting
paths='/bin /usr/bin /usr/local/bin /usr/ucb /usr/local /usr/lbin'
paths="$paths /opt/bin /opt/local/bin /opt/local /opt/lbin"
paths="$paths /usr/5bin /etc /usr/gnu/bin /usr/new /usr/new/bin /usr/nbin"
paths="$paths /opt/gnu/bin /opt/new /opt/new/bin /opt/nbin"
```

```
paths="$paths /sys5.3/bin /sys5.3/usr/bin /bsd4.3/bin /bsd4.3/usr/ucb"
paths="$paths /bsd4.3/usr/bin /usr/bsd /bsd43/bin /usr/ccs/bin"
paths="$paths /etc /usr/lib /usr/ucblib /lib /usr/ccs/lib"
paths="$paths /sbin /usr/sbin /usr/libexec"
paths="$paths /system/gnu_library/bin"

for p in $paths
do
 case "$p_$PATH$p_" in
 *$p_$p$p_*) ;;
 *) test -d $p && PATH=$PATH$p_$p ;;
 esac
done

PATH=.$p_$PATH
export PATH

: shall we be using ksh?
inksh=''
needksh=''
avoidksh=''
newsh=/bin/ksh
changesh=''
?X: Use (alias -x) and not (alias) since zsh and bash recognize the alias
?X: builtin but not the -x option which is typically ksh...
?X: We need to set up PATH before calling the "alias" built-in since
 some
?X: systems like HP-UX have a binary called /bin/alias.
if (PATH=.; alias -x) >/dev/null 2>&1; then
  inksh=true
fi
?X: On HP-UX, large Configure scripts may exercise a bug in /bin/sh, use ksh
if test -f /hp-ux -a -f /bin/ksh; then
 needksh='to avoid sh bug in "here document" expansion'
fi
?X: On AIX4, /bin/sh is really ksh and it causes problems, use sh
if test -d /usr/lpp -a -f /usr/bin/bsh -a -f /usr/bin/uname; then
 if test X`/usr/bin/uname -v` = X4; then
  avoidksh="to avoid AIX 4's /bin/sh"
  newsh=/usr/bin/bsh
 fi
fi
?X: On Digital UNIX, /bin/sh may start up buggy /bin/ksh, use sh
if test -f /osf_boot -a -f /usr/sbin/setld; then
 if test X`/usr/bin/uname -s` = XOSF1; then
  avoidksh="to avoid Digital UNIX' ksh"
  newsh=/bin/sh
?X: if BIN_SH is set to 'xpg4', sh will start up ksh
```

```
  unset BIN_SH
 fi
fi
?X: If we are not in ksh and need it, then feed us back to it
case "$inksh/$needksh" in
/[a-z]*)
?X: Clear ENV to avoid any ~/.kshrc that could alias cd or whatever...
?X: Don't
 use "unset ENV", that is not portable enough
  ENV=''
  changesh=true
  reason="$needksh"
 ;;
esac
?X: If we are in ksh and must avoid it, then feed us back to a new shell
case "$inksh/$avoidksh" in
true/[a-z]*)
 changesh=true
 reason="$avoidksh"
 ;;
esac
?X: Warn them if they use ksh on other systems, which are those where
?X: we don't need ksh nor want to avoid it explicitly, yet are using it.
case "$inksh/$needksh-$avoidksh-" in
true/--)
  cat <<EOM
(I see you are using the Korn shell.  Some ksh's blow up on $me,
mainly on older exotic systems.  If yours does, try the Bourne shell instead.)
EOM
 ;;
esac
case "$changesh" in
true)
 export newsh
 echo "(Feeding myself to $newsh $reason.)"
?X: Make sure they didn't say sh <Configure by checking whether $0 ends
?X: with Configure or not. If they did say sh <../../Configure, then too
?X: bad for them anyway, since we lost that path indication...
?X: Otherwise, execing $0 ensures we keep the full remote source dir
?X: indication for src.U.
 case
 "$0" in
 Configure|*/Configure) exec $newsh $0 "$@";;
 *) exec $newsh Configure "$@";;
 esac
 ;;
esac
```

```
?X: Unset CDPATH to avoid surprises when using cd under some shells
?X: Can't unset it because that's not portable to very old shells.
?X: Can't set it to '' because then bash 2.02 won't do "cd UU"  --AD  6/98.
?X: Don't want to set it to '.' because then ksh prints out the
?X: name of the directory every time you cd to it. --AD 6/98
?X: In order to inflict the least harm, change it only if it's set.
: if needed, set CDPATH to a harmless value that is not chatty
case "$CDPATH" in
'') ;;
*) case "$SHELL" in
 *bash*) CDPATH='.' ;;
 *) CDPATH='' ;;
 esac
 ;;
esac

: Configure runs within the UU subdirectory
test -d UU || mkdir UU
?X: Use ./* to avoid any confirmation prompts from enhanced shells -- WED
cd UU && rm -f ./*
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Head.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2009 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_inetpton: Inlibc
?MAKE: -pick add $@ %<
?S:d_inetpton:
?S: This variable conditionally defines the HAS_INETPTON symbol,
?S: which indicates to the C program that the inet_pton() function
?S: is available.
?S:.
?C:HAS_INETPTON:
?C: This symbol, if defined, indicates that the inet_pton() function
?C: is available to parse IPv4 and IPv6 strings.
?C:.
?H:#$d_inetpton HAS_INETPTON  /**/
?H:.
?LINT:set d_inetpton
: see if inet_pton exists
```

```
set inet_pton d_inetpton
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_inetpton.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Cppsym.U,v $
?RCS: Revision 3.0.1.5  1995/05/12  11:59:11  ram
?RCS: patch54: split awk command onto two lines for older awks (ADO)
?RCS:
?RCS: Revision 3.0.1.4  1995/01/11  14:55:57  ram
?RCS: patch45: new cc vs. cpp symbol checking suggested by JHI
?RCS: patch45: added more cpp symbols (JHI)
?RCS:
?RCS: Revision 3.0.1.3  1994/10/29  15:51:32  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: new symbols ardent and titan (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20
  06:53:32  ram
?RCS: patch30: extended cpp symbol lookup list (JHI)
?RCS: patch30: renamed attrlist symbol into al for brevity
?RCS:
?RCS: Revision 3.0.1.1  1993/12/15  08:14:14  ram
?RCS: patch15: added new cpp symbols __bsdi__ and BSD_NET2
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script called Cppsym, which can be used to
?X: determine whether any in a list of symbols is defined by the C compilation
?X: chain (C preprocessor symbols plus C compiler native ones).
?X: It can determine the status of any symbol, though the symbols in $al
?X: are more easily determined.  If you want to add to $al you can do
?X: it in Myinit.U.
```

```
?X:
?MAKE:Cppsym ccsymbols cppsymbols cppccsymbols: run \
 eunicefix Guess awk cat tr sed sort rm startsh osname \
 +cc gccversion test comm uniq echo Options trnl \
 optimize ccflags ldflags libs
?MAKE: -pick add $@ %<
?S:ccsymbols:
?S: The variable contains the symbols
 defined by the C compiler alone.
?S: The symbols defined by cpp or by cc when it calls cpp are not in
?S: this list, see cppsymbols and cppccsymbols.
?S: The list is a space-separated list of symbol=value tokens.
?S:.
?S:cppsymbols:
?S: The variable contains the symbols defined by the C preprocessor
?S: alone.  The symbols defined by cc or by cc when it calls cpp are
?S: not in this list, see ccsymbols and cppccsymbols.
?S: The list is a space-separated list of symbol=value tokens.
?S:.
?S:cppccsymbols:
?S: The variable contains the symbols defined by the C compiler
?S: when it calls cpp.  The symbols defined by the cc alone or cpp
?S: alone are not in this list, see ccsymbols and cppsymbols.
?S: The list is a space-separated list of symbol=value tokens.
?S:.
?T:also symbols i postprocess_cc_v flags
?F:./Cppsym
?F:!Cppsym.true !Cppsym.know !ccsym.com !ccsym.cpp !ccsym.own
: determine known pre-processor and compiler symbols
echo " "
$echo "Guessing which symbols your C compiler and preprocessor
 define..." >&4
?X:
?X: The symbol list is in alpha order for ease of maintenance...
?X:
?X: Lots of new symbols (mostly rummaged from gcc), courtesy of
?X: Jarkko Hietaniemi <jhi@snakemail.hut.fi> -- RAM, 06/06/94
?X:
?X: If your symbol is mixed case, just add it as-is.
?X: All symbols will be transformed to both all-lower and all-upper.
?X: Also drop any leading/trailing underscores, the scan will try all those.
?X:
$cat <<'EOSH' > Cppsym.know
a29k ABI64 aegis AES_SOURCE AIX AIX32 AIX370
AIX41 AIX42 AIX43 AIX_SOURCE aixpc ALL_SOURCE
alliant alpha am29000 AM29000 AMD64 amiga AMIGAOS AMIX
ansi ANSI_C_SOURCE apollo ardent ARM32 atarist att386 att3b
BeOS BIG_ENDIAN BIT_MSF bsd BSD bsd43 bsd4_2 bsd4_3 BSD4_3 bsd4_4
```

BSD_4_3 BSD_4_4 BSD_NET2 BSD_TIME BSD_TYPES BSDCOMPAT bsdi
bull c cadmus clipper CMU COFF COMPILER_VERSION
concurrent convex cpu cray CRAY CRAYMPP ctix CX_UX
CYGWIN DGUX DGUX_SOURCE DJGPP dmert DOLPHIN DPX2 DSO
Dynix DynixPTX ELF encore EPI EXTENSIONS FAVOR_BSD
FILE_OFFSET_BITS
FreeBSD GCC_NEW_VARARGS gcos gcx gimpel
GLIBC GLIBC_MINOR
GNU_SOURCE GNUC GNUC_MINOR GNU_LIBRARY GO32 gould GOULD_PN
H3050R H3050RX hbullx20 hcx host_mips
hp200 hp300 hp700 HP700 hp800 hp9000
hp9000s200 hp9000s300 hp9000s400 hp9000s500
hp9000s700 hp9000s800 hp9k8 hp_osf hppa hpux HPUX_SOURCE
i186 i286 i386 i486 i586 i686 i8086 i80960 i860 I960
IA64 iAPX286 ibm ibm032 ibmesa IBMR2 ibmrt ILP32 ILP64
INLINE_INTRINSICS INTRINSICS INT64 interdata is68k ksr1
LANGUAGE_C LARGE_FILE_API LARGEFILE64_SOURCE
LARGEFILE_SOURCE LFS64_LARGEFILE LFS_LARGEFILE
Linux LITTLE_ENDIAN LONG64 LONG_DOUBLE LONG_LONG
LONGDOUBLE LONGLONG LP64 luna luna88k Lynx
M68000 m68k m88100 m88k M88KBCS_TARGET M_COFF
M_I186 M_I286 M_I386 M_I8086 M_I86 M_I86SM M_SYS3
M_SYS5 M_SYSIII M_SYSV M_UNIX M_XENIX MACH machine MachTen
MATH_HAS_NO_SIDE_EFFECTS
mc300 mc500 mc68000 mc68010 mc68020 mc68030 mc68040
mc68060 mc68k mc68k32 mc700 mc88000 mc88100 merlin
mert MiNT mips MIPS_FPSET MIPS_ISA MIPS_SIM MIPS_SZINT
MIPS_SZLONG
MIPS_SZPTR MIPSEB MIPSEL MODERN_C motorola
mpeix MSDOS MTXINU MULTIMAX mvs MVS n16 ncl_el ncl_mr
NetBSD news1500 news1700 news1800 news1900 news3700
news700 news800 news900 NeXT NLS nonstopux ns16000 ns32000
ns32016 ns32332 ns32k nsc32000
OCS88 OEMVS OpenBSD os OS2 OS390 osf OSF1 OSF_SOURCE
pa_risc PA_RISC1_1 PA_RISC2_0 PARAGON parisc
pc532 pdp11 PGC PIC plexus PORTAR posix
POSIX1B_SOURCE POSIX2_SOURCE POSIX4_SOURCE
POSIX_C_SOURCE POSIX_SOURCE POWER
PROTOTYPES PWB pyr QNX R3000 REENTRANT RES Rhapsody RISC6000
riscix riscos RT S390 SA110 scs SCO sequent sgi SGI_SOURCE SH3 sinix
SIZE_INT SIZE_LONG SIZE_PTR SOCKET_SOURCE SOCKETS_SOURCE
sony sony_news sonyrisc sparc sparclite spectrum
stardent stdc STDC_EXT stratos sun sun3 sun386
Sun386i svr3 svr4 SVR4_2 SVR4_SOURCE svr5
SX system SYSTYPE_BSD SYSTYPE_BSD43 SYSTYPE_BSD44
SYSTYPE_SVR4 SYSTYPE_SVR5 SYSTYPE_SYSV SYSV SYSV3 SYSV4 SYSV5
sysV68 sysV88 Tek4132 Tek4300 titan
TM3200 TM5400 TM5600

```
tower tower32 tower32_200 tower32_600 tower32_700
tower32_800
 tower32_850 tss
u370 u3b u3b2 u3b20 u3b200 u3b20d u3b5
ultrix UMAXV UnicomPBB UnicomPBD UNICOS UNICOSMK
unix UNIX95 UNIX99 unixpc unos
USE_BSD USE_FILE_OFFSET64 USE_GNU USE_ISOC9X USE_LARGEFILE USE_LARGEFILE64
USE_MISC USE_POSIX USE_POSIX199309 USE_POSIX199506 USE_POSIX2
USE_REENTRANT USE_SVID USE_UNIX98 USE_XOPEN USE_XOPEN_EXTENDED
USGr4 USGr4_2
Utek UTek UTS UWIN uxpm uxps vax venix VMESA vms xenix Xenix286
XOPEN_SOURCE XOPEN_SOURCE_EXTENDED XPG2 XPG2_EXTENDED
XPG3 XPG3_EXTENDED XPG4 XPG4_EXTENDED
z8000
EOSH
?X: Maybe put other stuff here too.
cat <<EOSH >>Cppsym.know
$osname
EOSH
./tr '[a-z]' '[A-Z]' < Cppsym.know > Cppsym.a
./tr '[A-Z]' '[a-z]' < Cppsym.know > Cppsym.b
$cat Cppsym.know > Cppsym.c
$cat Cppsym.a Cppsym.b Cppsym.c | $tr ' ' $trnl | $sort | $uniq > Cppsym.know
$rm -f Cppsym.a Cppsym.b Cppsym.c
cat <<EOSH > Cppsym
$startsh
if $test \$# -gt 0; then
   echo \$* | $tr " " "$trnl" | ./Cppsym.try > Cppsym.got
   if $test -s Cppsym.got; then
       $rm -f Cppsym.got
        exit 0
   fi
   $rm -f Cppsym.got
   exit 1
else
   $tr " " "$trnl" | ./Cppsym.try
   exit 0
fi
EOSH
chmod +x Cppsym
$eunicefix Cppsym
?X: The below awk script will die a horrible death if
?X: some of the tested symbols are not long ints.
?X: Also, we do not make difference between just defined and defined zero.
cat <<EOSH > Cppsym.try
$startsh
cat <<'EOCP' > try.c
#include <stdio.h>
```

```
int main() {
EOCP
?X: The length($1) command guards against possible empty entries.
?X: The awk snippet is know to give heartburn to UNICOS/mk awk.
$awk \\
EOSH
cat <<'EOSH' >> Cppsym.try
'length($1) > 0 {
   printf "#ifdef %s\n#if %s+0\nprintf(\"%s=%%ld\\n\", (long)%s);\n#else\nprintf(\"%s\\n\");\n#endif\n#endif\n", $1,
$1, $1, $1, $1
   printf "#ifdef _%s\n#if _%s+0\nprintf(\"_%s=%%ld\\n\",
(long)_%s);\n#else\nprintf(\"_%s\\n\");\n#endif\n#endif\n", $1, $1, $1, $1, $1
   printf "#ifdef __%s\n#if __%s+0\nprintf(\"__%s=%%ld\\n\",
(long)__%s);\n#else\nprintf(\"__%s\\n\");\n#endif\n#endif\n",
 $1, $1, $1, $1, $1
   printf "#ifdef __%s__\n#if __%s__+0\nprintf(\"__%s__=%%ld\\n\",
(long)__%s__);\n#else\nprintf(\"__%s__\\n\");\n#endif\n#endif\n", $1, $1, $1, $1, $1
}'  >> try.c
echo 'return 0;}' >> try.c
EOSH
cat <<EOSH >> Cppsym.try
flags="$ccflags"
case "$osname-$gccversion" in
irix-) flags="\$flags -woff 1178" ;;
os2-*) flags="\$flags -Zlinker /PM:VIO" ;;
esac
$cc -o try $optimize \$flags $ldflags try.c $libs && $run ./try
EOSH
chmod +x Cppsym.try
$eunicefix Cppsym.try
./Cppsym < Cppsym.know > Cppsym.true
: now check the C compiler for additional symbols
?X: suggested by Jarkko Hietaniemi <jhi@snakemail.hut.fi>, thanks!
postprocess_cc_v="
case "$osname" in
aix) postprocess_cc_v="|$tr , ' '" ;;
esac
$cat >ccsym <<EOS
$startsh
$cat >tmp.c <<EOF
extern int foo;
EOF
for i in \`$cc -v -c tmp.c 2>&1 $postprocess_cc_v\`
do
 case "\$i" in
 -D*) echo "\$i" | $sed 's/^-D//';;
 -A*) $test "$gccversion" && echo "\$i" | $sed 's/^-A//' | $sed 's/\(.*\)(\(.*\))/\1=\2/';;
 esac
```

```
done
$rm
 -f try.c
EOS
postprocess_cc_v="
chmod +x ccsym
$eunicefix ccsym
./ccsym > ccsym1.raw
?X: AIX complains if $uniq is passed an empty file.  ($sort apparently
?X: doesn't care.)  --AD  14 July 1998
if $test -s ccsym1.raw; then
	$sort ccsym1.raw | $uniq >ccsym.raw
else
	mv ccsym1.raw ccsym.raw
fi

?X: canonicalize symbols for easier sort/uniq/comm usage: append =1 if no = sign
?X: the awk script must be on two lines for older awk programs, sigh! -- ADO
$awk '/\=/ { print $0; next }
 { print $0"=1" }' ccsym.raw >ccsym.list
$awk '/\=/ { print $0; next }
 { print $0"=1" }' Cppsym.true >ccsym.true
$comm -13 ccsym.true ccsym.list >ccsym.own
$comm -12 ccsym.true ccsym.list >ccsym.com
$comm -23 ccsym.true ccsym.list >ccsym.cpp
also="
if $test -z ccsym.raw; then
 echo "Your C compiler doesn't seem to define any symbols!" >&4
 echo " "
 echo "However, your C preprocessor defines the following symbols:"
 $cat Cppsym.true
    ccsymbols="
 cppsymbols=`$cat Cppsym.true`
       cppsymbols=`echo
 $cppsymbols`
 cppccsymbols="$cppsymbols"
else
 if $test -s ccsym.com; then
  echo "Your C compiler and pre-processor define these symbols:"
  $sed -e 's/\(..*\)=.*/\1/' ccsym.com
  also='also '
  symbols='ones'
  cppccsymbols=`$cat ccsym.com`
  cppccsymbols=`echo $cppccsymbols`
  $test "$silent" || sleep 1
 fi
 if $test -s ccsym.cpp; then
  $test "$also" && echo " "
```

```
  echo "Your C pre-processor ${also}defines the following symbols:"
  $sed -e 's/\(..*\)=.*/\1/' ccsym.cpp
  also='further '
  cppsymbols=`$cat ccsym.cpp`
  cppsymbols=`echo $cppsymbols`
  $test "$silent" || sleep 1
 fi
 if $test -s ccsym.own; then
  $test "$also" && echo " "
  echo "Your C compiler ${also}defines the following cpp symbols:"
  $sed -e 's/\(..*\)=1/\1/' ccsym.own
  $sed -e 's/\(..*\)=.*/\1/' ccsym.own | $uniq >>Cppsym.true
        ccsymbols=`$cat ccsym.own`
        ccsymbols=`echo $ccsymbols`
  $test "$silent" || sleep 1
 fi
fi
$rm -f Cppsym.know Cppsym.true
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Cppsym.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_nl_langinfo: Inlibc i_langinfo
?MAKE: -pick add $@ %<
?S:d_nl_langinfo:
?S: This variable conditionally defines the HAS_NL_LANGINFO symbol, which
?S: indicates to the C program that the nl_langinfo() routine is available.
?S:.
?C:HAS_NL_LANGINFO:
?C: This symbol, if defined, indicates that the nl_langinfo routine is
?C: available to return local data.  You will also need <langinfo.h>
?C: and therefore I_LANGINFO.
?C:.
?H:#$d_nl_langinfo HAS_NL_LANGINFO  /**/
?H:.
?LINT:set d_nl_langinfo
?LINT:use i_langinfo
: see if nl_langinfo exists
set nl_langinfo d_nl_langinfo
```

```
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_nl_langinfo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: newsspool.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: newsspool.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:newsspool newsspoolexp: Getfile Oldconfig
?MAKE: -pick add $@ %<
?S:newsspool:
?S: This variable contains the eventual value of the NEWSSPOOL symbol,
?S: which is the directory name where news articles are spooled.  It
?S: may have a ~ on the front of it.
?S:.
?S:newsspoolexp:
?S: This is the same as the newsspool variable, but is
 filename expanded
?S: at configuration time, for programs not wanting to deal with it at
?S: run-time.
?S:.
?C:NEWSSPOOL:
?C: This symbol contains the directory name where news articles are
?C: spooled.  The program must be prepared to do ~ expansion on it.
?C:.
?C:NEWSSPOOL_EXP:
?C: This is the same as NEWSSPOOL, but is filename expanded at
?C: configuration time, for use in programs not willing to do so
?C: at run-time.
?C:.
?H:#define NEWSSPOOL "$newsspool" /**/
?H:#define NEWSSPOOL_EXP "$newsspoolexp" /**/
?H:.
: locate news spool directory
case "$newsspool" in
```

```
")
 dflt=/usr/spool/news
 ;;
*) dflt="$newsspool";;
esac
echo " "
fn=d~
rp='Where are news spooled?'
. ./getfile
newsspool="$ans"
newsspoolexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/newsspool.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_syspoll.U 15 2006-08-30 18:21:51Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:i_syspoll: Inhdr
?MAKE: -pick add $@ %<
?S:i_syspoll:
?S: This variable conditionally defines the I_SYS_POLL symbol, which
?S: indicates to the C program that it should include <sys/poll.h>.
?S:.
?C:I_SYS_POLL:
?C: This symbol, if defined, indicates that the program may include
?C: <sys/poll.h>.  When I_POLL is also defined, it's probably safest
?C: to only include <poll.h>.
?C:.
?H:#$i_syspoll I_SYS_POLL /**/
?H:.
?LINT:set i_syspoll
: see if there is
 a sys/poll.h file
set sys/poll.h i_syspoll
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/dist/U/i_syspoll.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setlocale_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_setlocale_r setlocale_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_locale extern_C
?MAKE: -pick add $@ %<
?S:d_setlocale_r:
?S: This variable conditionally defines the HAS_SETLOCALE_R symbol,
?S: which indicates to the C program that the setlocale_r()
?S: routine is available.
?S:.
?S:setlocale_r_proto:
?S: This variable encodes the prototype of setlocale_r.
?S: It is zero if d_setlocale_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setlocale_r
?S: is defined.
?S:.
?C:HAS_SETLOCALE_R:
?C: This symbol, if defined, indicates that the setlocale_r routine
?C: is
 available to setlocale re-entrantly.
?C:.
?C:SETLOCALE_R_PROTO:
?C: This symbol encodes the prototype of setlocale_r.
?C: It is zero if d_setlocale_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setlocale_r
?C: is defined.
?C:.
?H:#$d_setlocale_r HAS_SETLOCALE_R /**/
?H:#define SETLOCALE_R_PROTO $setlocale_r_proto /**/
?H:.
?T:try hdrs d_setlocale_r_proto
: see if setlocale_r exists
set setlocale_r d_setlocale_r
eval $inlibc
case "$d_setlocale_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_locale locale.h"
 case "$d_setlocale_r_proto:$usethreads" in
 ":define") d_setlocale_r_proto=define
```

```
 set d_setlocale_r_proto setlocale_r $hdrs
 eval $hasproto ;;
*) ;;
esac
case "$d_setlocale_r_proto" in
define)
case "$setlocale_r_proto" in
"|0) try='int setlocale_r(int, const char*, char*, int);'
./protochk "$extern_C $try" $hdrs && setlocale_r_proto=I_ICBI ;;
esac
case "$setlocale_r_proto" in
"|0) d_setlocale_r=undef
 setlocale_r_proto=0
 echo
"Disabling setlocale_r, cannot determine prototype." >&4 ;;
* ) case "$setlocale_r_proto" in
 REENTRANT_PROTO*) ;;
 *) setlocale_r_proto="REENTRANT_PROTO_$setlocale_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "setlocale_r has no prototype, not using it." >&4 ;;
 esac
 d_setlocale_r=undef
 setlocale_r_proto=0
 ;;
esac
;;
*) setlocale_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_setlocale_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: patchlevel.U,v 3.0.1.1 1997/02/28 16:18:41 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
```

```
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: patchlevel.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:18:41  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:patchlevel revision version subversion \
 perl_patchlevel version_patchlevel_string \
 api_revision api_version api_subversion api_versionstring: \
 package test rsrc echo awk osname
?MAKE: -pick
 add $@ %<
?S:revision:
?S: The value of revision comes from the patchlevel.h file.
?S: In a version number such as 5.6.1, this is the "5".
?S: In patchlevel.h, this is referred to as "PERL_REVISION".
?S:.
?S:patchlevel:
?S: The patchlevel level of this package.
?S: The value of patchlevel comes from the patchlevel.h file.
?S: In a version number such as 5.6.1, this is the "6".
?S: In patchlevel.h, this is referred to as "PERL_VERSION".
?S:.
?S:subversion:
?S: The subversion level of this package.
?S: The value of subversion comes from the patchlevel.h file.
?S: In a version number such as 5.6.1, this is the "1".
?S: In patchlevel.h, this is referred to as "PERL_SUBVERSION".
?S: This is unique to perl.
?S:.
?S:version:
?S: The full version number of this package, such as 5.6.1 (or 5_6_1).
?S: This combines revision, patchlevel, and subversion to get the
?S: full version number, including any possible subversions.
?S: This is suitable for use as a directory name, and hence is
?S: filesystem
 dependent.
?S:.
?S:api_revision:
?S: The three variables, api_revision, api_version, and
?S: api_subversion, specify the version of the oldest perl binary
?S: compatible with the present perl.  In a full version string
?S: such as '5.6.1', api_revision is the '5'.
?S: Prior to 5.5.640, the format was a floating point number,
?S: like 5.00563.
```

```
?S:
?S: perl.c:incpush() and lib/lib.pm will automatically search in
?S: $sitelib/.. for older directories back to the limit specified
?S: by these api_ variables.  This is only useful if you have a
?S: perl library directory tree structured like the default one.
?S: See INSTALL for how this works.  The versioned site_perl
?S: directory was introduced in 5.005, so that is the lowest
?S: possible value.  The version list appropriate for the current
?S: system is determined in inc_version_list.U.
?S:
?S: XXX To do:  Since compatibility can depend on compile time
?S: options (such as bincompat, longlong, etc.) it should
?S: (perhaps) be set by
 Configure, but currently it isn't.
?S: Currently, we read a hard-wired value from patchlevel.h.
?S: Perhaps what we ought to do is take the hard-wired value from
?S: patchlevel.h but then modify it if the current Configure
?S: options warrant.  patchlevel.h then would use an #ifdef guard.
?S:.
?S:api_version:
?S: The three variables, api_revision, api_version, and
?S: api_subversion, specify the version of the oldest perl binary
?S: compatible with the present perl.  In a full version string
?S: such as '5.6.1', api_version is the '6'.  See api_revision for
?S: full details.  As a special case, 5.5.0 is rendered in the
?S: old-style as 5.005.  (In the 5.005_0x maintenance series,
?S: this was the only versioned directory in $sitelib.)
?S:.
?S:api_subversion:
?S: The three variables, api_revision, api_version, and
?S: api_subversion, specify the version of the oldest perl binary
?S: compatible with the present perl.  In a full version string
?S: such as '5.6.1', api_subversion is the
 '1'.  See api_revision for
?S: full details.
?S:.
?S:api_versionstring:
?S: This variable combines api_revision, api_version, and
?S: api_subversion in a format such as 5.6.1 (or 5_6_1) suitable
?S: for use as a directory name.  This is filesystem dependent.
?S:.
?S:perl_patchlevel:
?S: This is the Perl patch level, a numeric change identifier,
?S: as defined by whichever source code maintenance system
?S: is used to maintain the patches; currently Perforce.
?S: It does not correlate with the Perl version numbers or
?S: the maintenance versus development dichotomy except
?S: by also being increasing.
```

```
?S:.
?S:version_patchlevel_string:
?S: This is a string combining version, subversion and
?S: perl_patchlevel (if perl_patchlevel is non-zero).
?S: It is typically something like
?S: 'version 7 subversion 1'  or
?S: 'version 7 subversion 1 patchlevel 11224'
?S: It is computed here to avoid duplication of code in myconfig.SH
?S: and lib/Config.pm.
?S:.
?LINT:extern LC_ALL
?LINT:extern LANGUAGE
:
 get the patchlevel
echo " "
echo "Getting the current patchlevel..." >&4
if $test -r $rsrc/patchlevel.h;then
 revision=`awk '/define[  ]+PERL_REVISION/ {print $3}' $rsrc/patchlevel.h`
 patchlevel=`awk '/define[  ]+PERL_VERSION/ {print $3}' $rsrc/patchlevel.h`
 subversion=`awk '/define[  ]+PERL_SUBVERSION/ {print $3}' $rsrc/patchlevel.h`
 api_revision=`awk '/define[  ]+PERL_API_REVISION/ {print $3}' $rsrc/patchlevel.h`
 api_version=`awk '/define[  ]+PERL_API_VERSION/ {print $3}' $rsrc/patchlevel.h`
 api_subversion=`awk '/define[  ]+PERL_API_SUBVERSION/ {print $3}' $rsrc/patchlevel.h`
 perl_patchlevel=`egrep ',"(MAINT|SMOKE)[0-9][0-9]*"' $rsrc/patchlevel.h|tail -1|sed 's/[^0-9]//g'`
else
 revision=0
 patchlevel=0
 subversion=0
 api_revision=0
 api_version=0
 api_subversion=0
 perl_patchlevel=0
 $echo "(You do not have patchlevel.h.  Eek.)"
fi
: Define a handy string here to avoid duplication in myconfig.SH and configpm.
version_patchlevel_string="version $patchlevel subversion $subversion"
case
 "$perl_patchlevel" in
0|'') ;;
*)  perl_patchlevel=`echo $perl_patchlevel | sed 's/.* //'`
   version_patchlevel_string="$version_patchlevel_string patch $perl_patchlevel"
   ;;
esac

$echo "(You have $package $version_patchlevel_string.)"

case "$osname" in
dos|vms)
```

```
 : XXX Should be a Configure test for double-dots in filenames.
 version=`echo $revision $patchlevel $subversion | \
   $awk '{ printf "%d_%d_%d", $1, $2, $3 }'`
 api_versionstring=`echo $api_revision $api_version $api_subversion | \
   $awk '{ printf "%d_%d_%d", $1, $2, $3 }'`
 ;;
*)
 version=`echo $revision $patchlevel $subversion | \
   $awk '{ printf "%d.%d.%d", $1, $2, $3 }'`
 api_versionstring=`echo $api_revision $api_version $api_subversion | \
   $awk '{ printf "%d.%d.%d", $1, $2, $3 }'`
 ;;
esac
: Special case the 5.005_xx maintenance series, which used 5.005
: without any subversion label as a subdirectory in $sitelib
if test "${api_revision}${api_version}${api_subversion}" = "550"; then
 api_versionstring='5.005'
fi

Found
 in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
5.36.0/U/perl/patchlevel.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_bcopy.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_bcopy.U,v $
?RCS: Revision 3.0.1.2  1993/10/16  13:48:04  ram
?RCS: patch12: added magic support for bcopy()
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:01:11  ram
?RCS: patch10: now only defines HAS_BCOPY, no macro remap on memcpy (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_bcopy: Inlibc
?MAKE: -pick add $@ %<
?S:d_bcopy:
```

```
?S: This variable conditionally defines the HAS_BCOPY
 symbol if
?S: the bcopy() routine is available to copy strings.
?S:.
?C:HAS_BCOPY:
?C: This symbol is defined if the bcopy() routine is available to
?C: copy blocks of memory.
?C:.
?H:#$d_bcopy HAS_BCOPY /**/
?H:.
?M:bcopy: HAS_BCOPY
?M:#ifndef HAS_BCOPY
?M:#ifndef bcopy
?M:#define bcopy(s,d,l) memcpy((d),(s),(l))
?M:#endif
?M:#endif
?M:.
?LINT:set d_bcopy
: see if bcopy exists
set bcopy d_bcopy
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_bcopy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorscript.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorscript.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:d_vendorscript vendorscript vendorscriptexp installvendorscript: Getfile \
 vendorbin cat Setprefixvar Oldconfig Prefixit test vendorprefix
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorscript:
?S: This variable contains the eventual value of the VENDORSCRIPT symbol.
?S: It may have a ~ on the front.
```

```
?S: The standard distribution will put nothing in this
 directory.
?S: Vendors who distribute perl may wish to place additional
?S: executable scripts in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorscriptexp:
?S: This variable is the ~name expanded version of vendorscript, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorscript="
?S:installvendorscript:
?S: This variable is really the same as vendorscriptexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?S:d_vendorscript:
?S: This variable conditionally defines PERL_VENDORSCRIPT.
?S:.
?C:PERL_VENDORSCRIPT:
?C: If defined, this symbol contains the name of a directory
?C: for holding vendor-supplied executable scripts.
?C: It may have a ~ on the front.
?C: The standard distribution will put nothing in this directory.
?C: Vendors who distribute perl may wish to place additional
?C: executable
 scripts in this directory with
?C:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?C: or equivalent.  See INSTALL for details.
?C:.
?C:PERL_VENDORSCRIPT_EXP:
?C: This symbol contains the ~name expanded version of VENDORSCRIPT, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#$d_vendorscript PERL_VENDORSCRIPT "$vendorscript"  /**/
?H:#$d_vendorscript PERL_VENDORSCRIPT_EXP "$vendorscriptexp"  /**/
?H:.
?LINT:change prefixvar
?LINT:set installvendorscript
: Set the vendorscript variables
case "$vendorprefix" in
") d_vendorscript="$undef"
 vendorscript="
 vendorscriptexp="
 ;;
*) d_vendorscript="$define"
 : determine where vendor-supplied scripts go.
```

```
 case "$vendorscript" in
 ") dflt=$vendorprefix/script
  $test -d $dflt || dflt=$vendorbin ;;
 *)  dflt="$vendorscript" ;;
 esac
 $cat <<EOM

The installation process will create a directory for
vendor-supplied scripts.

EOM
 fn=d~+
 rp='Pathname for the vendor-supplied scripts directory?'
 . ./getfile
 vendorscript="$ans"
 vendorscriptexp="$ansexp"
 ;;
esac
prefixvar=vendorscript
.
 ./installprefix
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/vendorscript.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_netinettcp: Inhdr
?MAKE: -pick add $@ %<
?S:i_netinettcp:
?S: This variable conditionally defines the I_NETINET_TCP symbol,
?S: and indicates whether a C program should include <netinet/tcp.h>.
?S:.
?C:I_NETINET_TCP:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <netinet/tcp.h>.
?C:.
?H:#$i_netinettcp   I_NETINET_TCP                /**/
```

```
?H:.
?LINT:set i_netinettcp
: see if netinet/tcp.h is available
set netinet/tcp.h i_netinettcp
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_netinettcp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cppstdin.U,v $
?RCS: Revision 3.0.1.4  1994/10/29  16:08:34  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.3  1994/01/24  14:05:38  ram
?RCS: patch16: comment for CPPLAST was missing
?RCS:
?RCS: Revision 3.0.1.2  1993/12/15  08:18:58  ram
?RCS: patch15: new variables cpprun and cpplast, guaranteed wrapper-free
?RCS: patch15: cppstdin now tries to use cc, even at the cost of a wrapper
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:00:53  ram
?RCS: patch6:
 remove wrapper when not actually used
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:38  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:cppstdin cppminus cpprun cpplast: contains test Myread Oldconfig Loc \
 cpp +cc rm hint osname gccversion startsh eunicefix
?MAKE: -pick add $@ %<
?S:cppstdin:
?S: This variable contains the command which will invoke the C
?S: preprocessor on standard input and put the output to stdout.
?S: It is primarily used by other Configure units that ask about
?S: preprocessor symbols.
?S:.
```

```
?S:cppminus:
?S: This variable contains the second part of the string which will invoke
?S: the C preprocessor on the standard input and produce to standard
?S: output.  This variable will have the value "-" if cppstdin needs
?S: a minus to specify standard input, otherwise the value is "".
?S:.
?S:cpprun:
?S: This variable contains the command which will invoke a C preprocessor
?S: on standard input and put the output to stdout. It is guaranteed not
?S: to be a wrapper
 and may be a null string if no preprocessor can be
?S: made directly available. This preprocessor might be different from the
?S: one used by the C compiler. Don't forget to append cpplast after the
?S: preprocessor options.
?S:.
?S:cpplast:
?S: This variable has the same functionality as cppminus, only it applies to
?S: cpprun and not cppstdin.
?S:.
?C:CPPSTDIN:
?C: This symbol contains the first part of the string which will invoke
?C: the C preprocessor on the standard input and produce to standard
?C: output.  Typical value of "cc -E" or "/lib/cpp", but it can also
?C: call a wrapper. See CPPRUN.
?C:.
?C:CPPMINUS:
?C: This symbol contains the second part of the string which will invoke
?C: the C preprocessor on the standard input and produce to standard
?C: output.  This symbol will have the value "-" if CPPSTDIN needs a minus
?C: to specify standard input, otherwise the value is "".
?C:.
?C:CPPRUN:
?C: This symbol contains the string which will invoke a C preprocessor on
?C: the
 standard input and produce to standard output. It needs to end
?C: with CPPLAST, after all other preprocessor flags have been specified.
?C: The main difference with CPPSTDIN is that this program will never be a
?C: pointer to a shell wrapper, i.e. it will be empty if no preprocessor is
?C: available directly to the user. Note that it may well be different from
?C: the preprocessor used to compile the C program.
?C:.
?C:CPPLAST:
?C: This symbol is intended to be used along with CPPRUN in the same manner
?C: symbol CPPMINUS is used with CPPSTDIN. It contains either "-" or "".
?C:.
?H:#define CPPSTDIN "$cppstdin"
?H:#define CPPMINUS "$cppminus"
?H:#define CPPRUN "$cpprun"
```

```
?H:#define CPPLAST "$cpplast"
?H:.
?F:cppstdin !testcpp.out !testcpp.c
?T:wrapper x_cpp x_minus ok
: see how we invoke the C preprocessor
echo " "
echo "Now, how can we feed standard input to your C preprocessor..." >&4
cat <<'EOT' >testcpp.c
#define ABC abc
#define XYZ xyz
ABC.XYZ
EOT
cd ..
if $test ! -f cppstdin;
 then
 echo "$startsh" >cppstdin
if $test "X$osname" = "Xaix" -a "X$gccversion" = X; then
?X: AIX cc -E doesn't show the absolute headerfile
?X: locations but we'll cheat by using the -M flag.
 echo 'cat >.$$.c; rm -f .$$.u; '"$cc" ${1+"$@"} -M -c .$$.c 2>/dev/null; \
 test -s .$$.u && \
 awk '""$2 ~ /\.h$/ { print "# 0 \""$2"\"" }"" .$$.u; \
 rm -f .$$.o .$$.u; '"$cc" -E ${1+"$@"} .$$.c; rm .$$.c' >> cppstdin
else
 echo 'cat >.$$.c; '"$cc" -E ${1+"$@"} .$$.c; rm .$$.c' >>cppstdin
fi; else
 echo "Keeping your $hint cppstdin wrapper."
fi
chmod 755 cppstdin
$eunicefix cppstdin
wrapper=`pwd`/cppstdin
ok='false'
cd UU

?X:
?X: We'll run the cpp tests again if we don't have any valid C preprocessor
?X: yet or don't know how to proceed without a wrapper (in which case cpprun
?X: is empty and that's really annoying...)
?X:
if $test "X$cppstdin" != "X" && \
 $cppstdin $cppminus <testcpp.c >testcpp.out 2>&1 && \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1
then
 echo "You used to use
 $cppstdin $cppminus so we'll use that again."
 case "$cpprun" in
 '') echo "But let's see if we can live without a wrapper..." ;;
 *)
```

```
  if $cpprun $cpplast <testcpp.c >testcpp.out 2>&1 && \
   $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1
  then
   echo "(And we'll use $cpprun $cpplast to preprocess directly.)"
   ok='true'
  else
   echo "(However, $cpprun $cpplast does not work, let's see...)"
  fi
  ;;
 esac
else
 case "$cppstdin" in
 ") ;;
 *)
  echo "Good old $cppstdin $cppminus does not seem to be of any help..."
  ;;
 esac
fi

if $ok; then
 : nothing
elif echo 'Maybe """$cc"' -E" will work...'; \
 $cc -E <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Yup, it does."
 x_cpp="$cc -E"
 x_minus=";
elif echo 'Nope...maybe """$cc"' -E -" will work...'; \
 $cc -E - <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Yup, it does."
 x_cpp="$cc -E"
 x_minus='-';
elif echo 'Nope...maybe """$cc"'
 -P" will work...'; \
 $cc -P <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Yipee, that works!"
 x_cpp="$cc -P"
 x_minus=";
elif echo 'Nope...maybe """$cc"' -P -" will work...'; \
 $cc -P - <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "At long last!"
 x_cpp="$cc -P"
 x_minus='-';
elif echo 'No such luck, maybe "'$cpp"' will work...'; \
 $cpp <testcpp.c >testcpp.out 2>&1; \
```

```
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "It works!"
 x_cpp="$cpp"
 x_minus="";
elif echo 'Nixed again...maybe "$cpp' -" will work...'; \
 $cpp - <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Hooray, it works!  I was beginning to wonder."
 x_cpp="$cpp"
 x_minus='-';
elif echo 'Uh-uh.  Time to get fancy.  Trying a wrapper...'; \
 $wrapper <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 x_cpp="$wrapper"
 x_minus=''
 echo
 "Eureka!"
else
 dflt=''
 rp="No dice.  I can't find a C preprocessor.  Name one:"
 . ./myread
 x_cpp="$ans"
 x_minus=''
 $x_cpp <testcpp.c >testcpp.out 2>&1
 if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
  echo "OK, that will do." >&4
 else
echo "Sorry, I can't get that to work.  Go find one and rerun Configure." >&4
  exit 1
 fi
fi

case "$ok" in
false)
 cppstdin="$x_cpp"
 cppminus="$x_minus"
 cpprun="$x_cpp"
 cpplast="$x_minus"
?X:
?X: If /lib/cpp is used, try using a wrapper to increase our chances to have
?X: the C compiler and our $cppstdin agree on the same symbols... However,
?X: since cpprun is guaranteed not to be a wrapper, we must clear it if the
?X: only preprocessor we found was a wrapper, with all our luck...
?X:
 set X $x_cpp
 shift
 case "$1" in
 "$cpp")
```

```
  echo "Perhaps can we force $cc -E using a wrapper..."
  if $wrapper <testcpp.c >testcpp.out 2>&1; \
   $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1
  then
   echo "Yup, we can."
   cppstdin="$wrapper"
   cppminus=";
  else
   echo
 "Nope, we'll have to live without it..."
  fi
  ;;
 esac
 case "$cpprun" in
 "$wrapper")
  cpprun="
  cpplast="
  ;;
 esac
 ;;
esac

case "$cppstdin" in
"$wrapper"|'cppstdin') ;;
*) $rm -f $wrapper;;
esac
$rm -f testcpp.c testcpp.out
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/cppstdin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_asinh: Inlibc
?MAKE: -pick add $@ %<
?S:d_asinh:
?S: This variable conditionally defines the HAS_ASINH symbol, which
?S: indicates to the C program that the asinh() routine is available.
?S:.
?C:HAS_ASINH:
?C: This symbol, if defined, indicates that the asinh routine is
?C: available to do the inverse hyperbolic sine function.
?C:.
?H:#$d_asinh HAS_ASINH  /**/
?H:.
```

```
?LINT:set d_asinh
: see if asinh exists
set asinh d_asinh
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_asinh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: baserev.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: baserev.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:baserev: Null
?MAKE: -pick wipe $@ %<
?S:baserev:
?S: The base revision level of this package, from the .package file.
?S:.
: set the base revision
baserev=<BASEREV>
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/baserev.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2006-2007, H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_snprintf d_vsnprintf : Inlibc Compile cat run rm_try
?MAKE: -pick add $@ %<
?S:d_snprintf:
```

```
?S: This variable conditionally defines the HAS_SNPRINTF symbol, which
?S: indicates to the C program that the snprintf () library function
?S: is available.
?S:.
?S:d_vsnprintf:
?S: This variable conditionally defines the HAS_VSNPRINTF symbol, which
?S: indicates to the C program that the vsnprintf () library function
?S: is available.
?S:.
?C:HAS_SNPRINTF:
?C: This symbol, if defined, indicates that the snprintf () library
?C: function
 is available for use.
?C:.
?C:HAS_VSNPRINTF:
?C: This symbol, if defined, indicates that the vsnprintf () library
?C: function is available for use.
?C:.
?H:#$d_snprintf HAS_SNPRINTF /**/
?H:#$d_vsnprintf HAS_VSNPRINTF /**/
?H:.
?F:!try
: see if snprintf exists
set snprintf d_snprintf
eval $inlibc

: see if vsnprintf exists
set vsnprintf d_vsnprintf
eval $inlibc

case "$d_snprintf-$d_vsnprintf" in
"$define-$define")
   $cat <<EOM
Checking whether your snprintf() and vsnprintf() work okay...
EOM
   $cat >try.c <<'EOCP'
/* v?snprintf testing logic courtesy of Russ Allbery.
* According to C99:
* - if the buffer is too short it still must be \0-terminated
* - if the buffer is too short the potentially required length
*   must be returned and not -1
* - if the buffer is NULL the potentially required length
*   must be returned and not -1 or core dump
*/
#include <stdio.h>
#include <stdarg.h>

char buf[2];
```

```
int test (char *format, ...)
{
   va_list args;
   int count;

   va_start
 (args, format);
   count = vsnprintf (buf, sizeof buf, format, args);
   va_end (args);
   return count;
}

int main ()
{
   return ((test ("%s", "abcd") == 4 && buf[0] == 'a' && buf[1] == '\0'
           && snprintf (NULL, 0, "%s", "abcd") == 4) ? 0 : 1);
}
EOCP
   set try
   if eval $compile; then
 `$run ./try`
 case "$?" in
 0) echo "Your snprintf() and vsnprintf() seem to be working okay." ;;
 *) cat <<EOM >&4
Your snprintf() and snprintf() don't seem to be working okay.
EOM
    d_snprintf="$undef"
    d_vsnprintf="$undef"
    ;;
 esac
   else
 echo "(I can't seem to compile the test program--assuming they don't)"
 d_snprintf="$undef"
 d_vsnprintf="$undef"
   fi
   $rm_try
   ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_snprintf.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_setlnbuf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_setlnbuf.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:11:57  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_setlinebuf: Inlibc
?MAKE: -pick add $@ %<
?S:d_setlinebuf:
?S: This variable conditionally defines the HAS_SETLINEBUF symbol, which
?S: indicates to the C program that the setlinebuf() routine is available
?S: to change stderr or stdout from block-buffered or unbuffered
 to a
?S: line-buffered mode.
?S:.
?C:HAS_SETLINEBUF :
?C: This symbol, if defined, indicates that the setlinebuf routine is
?C: available to change stderr or stdout from block-buffered or unbuffered
?C: to a line-buffered mode.
?C:.
?H:#$d_setlinebuf HAS_SETLINEBUF  /**/
?H:.
?LINT:set d_setlinebuf
: see if setlinebuf exists
set setlinebuf d_setlinebuf
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setlnbuf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_bsdjmp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
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?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: d_bsdjmp.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:31:10  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:09:09  ram
?RCS: patch36: call ./usg explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_bsdjmp: Guess Setvar cat +cc libs rm
?MAKE: -pick add $@ %<
?S:d_bsdjmp:
?S: This variable conditionally defines USE_BSDJMP
 if BSD _setjmp and
?S: _longjmp routines are available to do non-local gotos without saving
?S: or restoring the signal mask flag.
?S:.
?C:USE_BSDJMP (BSDJMP):
?C: This symbol, if defined, indicates that the BSD _setjmp and _longjmp
?C: routines are available to do non-local gotos wihtout saving or restoring
?C: the signal mask flag.
?C:.
?H:#$d_bsdjmp USE_BSDJMP  /**/
?H:.
?F:!set
?LINT:set d_bsdjmp
: see if _setjmp and _longjmp exists
?X: We can't check for these symbols with Inlibc because of the leading "_"
echo " "
case "$d_bsdjmp" in
")
 $cat >set.c <<EOP
#include <setjmp.h>
jmp_buf env;
int set = 1;
int main()
{
 if (_setjmp(env))
  exit(set);
 set = 0;
 _longjmp(env, 1);
 exit(1);
}
EOP
 if $cc -o set set.c $libs >/dev/null 2>&1; then
  if ./set >/dev/null 2>&1; then
```

```
   echo "Good! You have BSD _setjmp and _longjmp routines." >&4
   val="$define"
  else
   $cat <<EOM
Uh-Oh! You have BSD _setjmp and _longjmp, but they do not work properly!!
EOM
   val="$undef"
  fi
 else
  if
 ./usg; then
   echo "You do not have _setjmp and _longjmp, but that's fine." >&4
  else
   cat <<EOM
It sounds strange for a BSD system to miss _setjmp and _longjmp, but that's ok.
EOM
  fi
  val="$undef"
 fi
 ;;
*) val="$d_bsdjmp"
 case "$d_bsdjmp" in
 $define) echo "Good! You have BSD _setjmp and _longjmp routines." >&4;;
 $undef) echo "You do not have _setjmp and _longjmp, but that's fine." >&4;;
 esac
 ;;
esac
set d_bsdjmp
eval $setvar
$rm -f set.c set
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_bsdjmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_crypt.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_crypt.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:31:47  ram
```

```
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_crypt cryptlib: Loc test xlibpth libpth Csym Setvar _a Inlibc
?MAKE: -pick add $@ %<
?S:d_crypt:
?S: This variable conditionally defines the CRYPT symbol, which
?S: indicates to the C program that the crypt() routine is available
?S: to
 encrypt passwords and the like.
?S:.
?S:cryptlib:
?S: This variable holds -lcrypt or the path to a libcrypt.a archive if
?S: the crypt() function is not defined in the standard C library. It is
?S: up to the Makefile to use this.
?S:.
?C:HAS_CRYPT (CRYPT):
?C: This symbol, if defined, indicates that the crypt routine is available
?C: to encrypt passwords and the like.
?C:.
?H:#$d_crypt HAS_CRYPT  /**/
?H:.
?LINT:set d_crypt
?T:val
: see if crypt exists
echo " "
set crypt d_crypt
eval $inlibc
case "$d_crypt" in
$define) cryptlib=" ;;
*) if set crypt val -f d_crypt; eval $csym; $val; then
  echo 'crypt() found.' >&4
  val="$define"
  cryptlib="
 else
  cryptlib=`./loc Slibcrypt$_a "" $xlibpth`
  if $test -z "$cryptlib"; then
   cryptlib=`./loc Mlibcrypt$_a "" $xlibpth`
  else
   cryptlib=-lcrypt
  fi
  if $test -z "$cryptlib"; then
   cryptlib=`./loc Llibcrypt$_a "" $xlibpth`
  else
   cryptlib=-lcrypt
  fi
```

```
  if $test -z "$cryptlib"; then
   cryptlib=`./loc libcrypt$_a ""
 $libpth`
  else
   cryptlib=-lcrypt
  fi
  if $test -z "$cryptlib"; then
   echo 'crypt() NOT found.' >&4
   val="$undef"
  else
   val="$define"
  fi
 fi
 set d_crypt
 eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_crypt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: defeditor.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: defeditor.U,v $
?RCS: Revision 3.0.1.1  1995/01/11  15:30:16  ram
?RCS: patch45: can now use the 'vi' variable since path stripping is deferred
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:defeditor: Getfile Oldconfig Loc vi
?MAKE: -pick add $@ %<
?S:defeditor:
?S: This variable contains the eventual value of the DEFEDITOR symbol,
?S: which contains the name of the default editor.
?S:.
?C:DEFEDITOR:
?C: This
```

```
 symbol contains the full pathname of the default editor.
?C:.
?H:#define DEFEDITOR "$defeditor"  /**/
?H:.
: determine default editor
echo " "
case "$defeditor" in
")
 case "$vi" in
 */*) dflt="$vi";;
 *) dflt=/usr/ucb/vi;;
 esac
 ;;
*)  dflt="$defeditor"
 ;;
esac
fn=f/
rp="What is the default editor on your system?"
. ./getfile
defeditor="$ans"
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/defeditor.U
No license file was found, but licenses were detected in source scan.

```
*  You may redistribute only under the terms of the Artistic Licence,
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/files/Jmake.tmpl
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_lchown.U,v 3.0.1.1 1994/08/29 16:07:14 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_lchown.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:14  ram
?RCS: patch32: created by ADO
```

```
?RCS:
?MAKE:d_lchown: Compile Setvar cat echo i_unistd rm_try
?MAKE: -pick add $@ %<
?S:d_lchown:
?S: This variable conditionally defines the HAS_LCHOWN symbol, which
?S: indicates to the C program that the lchown() routine is available
?S: to operate on a symbolic link (instead of following
 the link).
?S:.
?C:HAS_LCHOWN :
?C: This symbol, if defined, indicates that the lchown routine is
?C: available to operate on a symbolic link (instead of following the
?C: link).
?C:.
?H:#$d_lchown HAS_LCHOWN  /**/
?H:.
?F:!try
?LINT:set d_lchown
: see if lchown exists
echo " "
?X: Some functions (such as lchown()) are present in libc, but are
?X: unimplemented.  That is, they always fail and set errno=ENOSYS.
?X:
?X: Thomas Bushnell provided the following sample code and the explanation
?X: that follows.
?X:
?X: The choice of <assert.h> is essentially arbitrary.  The GNU libc
?X: macros are found in <gnu/stubs.h>.  You can include that file instead
?X: of <assert.h> (which itself includes <gnu/stubs.h>) if you test for
?X: its existence first.  <assert.h> is assumed to exist on every system,
?X: which is why it's used here.  Any GNU libc header file will include
?X: the stubs macros.  If either __stub_NAME or __stub___NAME is defined,
?X: then the function doesn't actually exist.
  Tests using <assert.h> work
?X: on every system around.
?X:
?X: The declaration of FOO is there to override builtin prototypes for
?X: ANSI C functions.
?X:
?X:  I really ought to enhance the inlibc test to check for this, but
?X:  I don't have time now.  --A.D.  5/1998
?X:
?X: Unfortunately, this trick fails under clang++-7.  Apparently to
?X: cover both the stub issue and clang's requirements, we need to do
?X: a compile and run test. -- A.D. 8/2019
?X:
$cat > try.c <<EOCP
#include <pwd.h>
```

```
#include <stdio.h>
#include <stdlib.h>
#$i_unistd I_UNISTD
#ifdef I_UNISTD
#  include <unistd.h>
#endif
int main(int argc, char *argv[])
{
  if (lchown("./try.c", -1, getgid()) == -1) {
      exit(EXIT_FAILURE);
  }
  exit(EXIT_SUCCESS);
}
EOCP
set try
if eval $compile && ./try; then
   $echo "lchown() found." >&4
   val="$define"
else
   $echo "lchown() NOT found." >&4
   val="$undef"
fi
set d_lchown
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_lchown.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getservent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getservent_r getservent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getservent_r:
?S: This variable conditionally defines the HAS_GETSERVENT_R symbol,
?S: which indicates to the C program that the getservent_r()
?S: routine is available.
?S:.
?S:getservent_r_proto:
```

```
?S: This variable encodes the prototype of getservent_r.
?S: It is zero if d_getservent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getservent_r
?S: is defined.
?S:.
?C:HAS_GETSERVENT_R:
?C: This symbol, if defined, indicates that the getservent_r routine
?C: is
 available to getservent re-entrantly.
?C:.
?C:GETSERVENT_R_PROTO:
?C: This symbol encodes the prototype of getservent_r.
?C: It is zero if d_getservent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getservent_r
?C: is defined.
?C:.
?H:#$d_getservent_r HAS_GETSERVENT_R /**/
?H:#define GETSERVENT_R_PROTO $getservent_r_proto /**/
?H:.
?T:try hdrs d_getservent_r_proto
: see if getservent_r exists
set getservent_r d_getservent_r
eval $inlibc
case "$d_getservent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getservent_r_proto:$usethreads" in
 ":define") d_getservent_r_proto=define
  set d_getservent_r_proto getservent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getservent_r_proto" in
 define)
 case "$getservent_r_proto" in
 "|0) try='int getservent_r(struct servent*, char*, size_t, struct servent**);'
 ./protochk "$extern_C $try" $hdrs && getservent_r_proto=I_SBWR ;;
 esac
 case "$getservent_r_proto"
 in
 "|0) try='int getservent_r(struct servent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getservent_r_proto=I_SBI ;;
 esac
 case "$getservent_r_proto" in
 "|0) try='struct servent* getservent_r(struct servent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getservent_r_proto=S_SBI ;;
 esac
 case "$getservent_r_proto" in
```

```
"|0) try='int getservent_r(struct servent*, struct servent_data*);'
./protochk "$extern_C $try" $hdrs && getservent_r_proto=I_SD ;;
esac
case "$getservent_r_proto" in
"|0) d_getservent_r=undef
 getservent_r_proto=0
 echo "Disabling getservent_r, cannot determine prototype." >&4 ;;
* ) case "$getservent_r_proto" in
 REENTRANT_PROTO*) ;;
 *) getservent_r_proto="REENTRANT_PROTO_$getservent_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "getservent_r has no prototype, not using it." >&4 ;;
 esac
 d_getservent_r=undef
 getservent_r_proto=0
 ;;
esac
;;
*) getservent_r_proto=0
 ;;
esac
```

Found
 in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getservent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fmax: Inlibc
?MAKE: -pick add $@ %<
?S:d_fmax:
?S: This variable conditionally defines the HAS_FMAX symbol, which
?S: indicates to the C program that the fmax() routine is available.
?S:.
?C:HAS_FMAX:
?C: This symbol, if defined, indicates that the fmax routine is
?C: available to do the maximum function.
?C:.
?H:#$d_fmax HAS_FMAX  /**/
?H:.
?LINT:set d_fmax
```

```
: see if fmax exists
set fmax d_fmax
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fmax.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getgrps.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getgrps.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getgrps: Inlibc
?MAKE: -pick add $@ %<
?S:d_getgrps:
?S: This variable conditionally defines the HAS_GETGROUPS symbol, which
?S: indicates to the C program that the getgroups() routine is available
?S: to get the list of process groups.
?S:.
?C:HAS_GETGROUPS (GETGROUPS):
?C: This symbol, if defined, indicates that the getgroups()
 routine is
?C: available to get the list of process groups.  If unavailable, multiple
?C: groups are probably not supported.
?C:.
?H:#$d_getgrps HAS_GETGROUPS  /**/
?H:.
?LINT:set d_getgrps
: see if getgroups exists
set getgroups d_getgrps
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getgrps.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_arpainet.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_arpainet.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_arpainet: Inhdr
?MAKE: -pick add $@ %<
?S:i_arpainet:
?S: This variable conditionally defines the I_ARPA_INET symbol,
?S: and indicates whether a C program should include <arpa/inet.h>.
?S:.
?C:I_ARPA_INET:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <arpa/inet.h> to get inet_addr and friends
 declarations.
?C:.
?H:#$i_arpainet I_ARPA_INET  /**/
?H:.
?LINT:set i_arpainet
: see if arpa/inet.h has to be included
set arpa/inet.h i_arpainet
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_arpainet.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_rusage.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_rusage.U,v $
```

```
?RCS: Revision 3.0  1993/08/18  12:06:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X: We may need to include <sys/resource.h> and <sys/time.h> FIXME
?X:INC: i_sysresrc i_systime
?MAKE:d_rusage: Inlibc
?MAKE: -pick add $@ %<
?S:d_rusage (d_getrusg):
?S: This variable conditionally defines the HAS_GETRUSAGE symbol, which
?S: indicates that the getrusage() routine exists.  The getrusage() routine
?S: supports sub-second accuracy
 for process cpu accounting. You may need
?S: to include <sys/resource.h> and <sys/time.h>.
?S:.
?C:HAS_GETRUSAGE (RUSAGE GETRUSAGE):
?C: This symbol, if defined, indicates that the getrusage() routine is
?C: available to get process statistics with a sub-second accuracy.
?C: Inclusion of <sys/resource.h> and <sys/time.h> may be necessary.
?C:.
?H:#$d_rusage HAS_GETRUSAGE  /**/
?H:.
?LINT:set d_rusage
: see if getrusage exists
set getrusage d_rusage
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_rusage.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: bitpbyte.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:02:54  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:bitpbyte: cat rm Myread +cc +ccflags
?MAKE: -pick add $@ %<
?S:bitpbyte:
?S: This variable contains the value of the BITS_PER_BYTE symbol, which
?S: indicates to the C program how many bits there are in a byte.
?S:.
?C:BITS_PER_BYTE:
?C: This symbol contains the number
 of bits in a byte, so that the C
?C: preprocessor can make decisions based on it.
?C:.
?H:#define BITS_PER_BYTE $bitpbyte  /**/
?H:.
?F:!try
: check for length of byte
echo " "
case "$bitpbyte" in
")
 echo "Checking to see how many bits there are in a byte..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
?X: Standard C requires a macro CHAR_BIT in <limits.h>
#ifdef __STDC__
#include <limits.h>
#ifndef CHAR_BIT
#define CHAR_BIT 8
#endif
#ifndef BITSPERBYTE
#define BITSPERBYTE CHAR_BIT
#endif
#else
?X: On non standard C, try with <values.h>
#include <values.h>
#ifndef BITSPERBYTE
#define BITSPERBYTE 8
#endif
#endif
int main()
{
 printf("%d\n", BITSPERBYTE);
}
EOCP
 if $cc $ccflags -o try try.c >/dev/null 2>&1 ; then
  dflt=`./try`
 else
  dflt='8'
  echo "(I can't seem to compile the test program.  Guessing...)"
 fi
```

```
 ;;
*)
 dflt="$bitpbyte"
 ;;
esac
rp="What is the length of a byte (in bits)?"
. ./myread
bitpbyte="$ans"
$rm -f try.c try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/bitpbyte.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Guess.U,v $
?RCS: Revision 3.0.1.5  1995/07/25  13:37:14  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  15:53:55  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: call ./xenix explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.3  1993/12/15  08:14:35  ram
?RCS: patch15: variable d_bsd was not always set properly
?RCS:
?RCS: Revision 3.0.1.2  1993/08/30  08:57:14  ram
?RCS: patch8: fixed comment which wrongly
 attributed the usrinc symbol
?RCS: patch8: no more ugly messages when no /usr/include/ctype.h
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:37:37  ram
?RCS: patch7: added support for OSF/1 machines
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
```

```
?X: This unit hazards some guesses as to what the general nature of the system
?X: is.  The information it collects here is used primarily to establish default
?X: answers to other questions.
?X:
?MAKE:Guess d_eunice d_xenix d_bsd d_linux d_dos d_os2: cat test echo n c \
 contains rm tr Loc eunicefix
?MAKE: -pick add $@ %<
?S:d_eunice:
?S: This variable conditionally defines the symbols EUNICE_SYSTEM, which
?S: alerts the C program that it must deal with ideosyncracies of VMS.
?S:.
?S:d_xenix:
?S: This variable conditionally defines the symbol XENIX_SYSTEM, which alerts
?S: the C program that it runs under Xenix.
?S:.
?S:d_dos:
?S: This symbol conditionally defines the symbol DOS_SYSTEM
 when running on
?S: DOS with DJGPP or Cygwin.
?S:.
?S:d_os2:
?S: This symbol conditionally defines the symbol OS2_SYSTEM when running on
?S: an OS/2 system.
?S:.
?S:d_bsd:
?S: This symbol conditionally defines the symbol BSD_SYSTEM when running on a
?S: BSD system.
?S:.
?S:d_linux:
?S: This symbol conditionally defines the symbol LINUX_SYSTEM when running
?S: on a Linux system.
?S:.
?C:EUNICE_SYSTEM (EUNICE):
?C: This symbol, if defined, indicates that the program is being compiled
?C: under the EUNICE package under VMS.  The program will need to handle
?C: things like files that don't go away the first time you unlink them,
?C: due to version numbering.  It will also need to compensate for lack
?C: of a respectable link() command.
?C:.
?C:VMS_SYSTEM (VMS):
?C: This symbol, if defined, indicates that the program is running under
?C: VMS.  It is currently only set in conjunction with the EUNICE symbol.
?C:.
?C:XENIX_SYSTEM (XENIX):
?C: This symbol, if defined, indicates that the program
 is running under
?C: Xenix (at least 3.0 ?).
?C:.
```

```
?C:DOS_SYSTEM:
?C: This symbol, if defined, indicates that the program is running under
?C: DOS with DJGPP.
?C:.
?C:OS2_SYSTEM:
?C: This symbol, if defined, indicates that the program is running under
?C: an OS/2 system.
?C:.
?C:BSD_SYSTEM:
?C: This symbol, if defined, indicates that the program is running under
?C: a BSD system.
?C:.
?C:LINUX_SYSTEM:
?C: This symbol, if defined, indicates that the program is running under
?C: a Linux system.
?C:.
?H:#$d_eunice EUNICE_SYSTEM  /**/
?H:#$d_eunice VMS_SYSTEM  /**/
?H:#$d_xenix XENIX_SYSTEM  /**/
?H:#$d_dos DOS_SYSTEM  /**/
?H:#$d_os2 OS2_SYSTEM  /**/
?H:#$d_bsd BSD_SYSTEM  /**/
?H:#$d_linux LINUX_SYSTEM  /**/
?H:.
?F:./bsd ./usg ./v7 ./osf1 ./eunice ./xenix ./venix ./dos ./os2 ./gnu ./linux
?T:xxx DJGPP MACHTYPE
: make some quick guesses about what we are up against
echo " "
$echo $n "Hmm...  $c"
echo exit 1 >bsd
echo exit 1 >usg
echo exit 1 >v7
echo exit 1 >osf1
echo exit 1 >eunice
echo
 exit 1 >xenix
echo exit 1 >venix
echo exit 1 >os2
echo exit 1 >gnu
echo exit 1 >linux
echo exit 1 >dos
d_bsd="$undef"
d_linux="$undef"
d_dos="$undef"
d_os2="$undef"
?X:
?X: Do not use 'usrinc', or we get a circular dependency. because
?X: usrinc is defined in usrinc.U, which relies on us...
```

```
?X:
$cat /usr/include/signal.h /usr/include/sys/signal.h >foo 2>/dev/null
if test -f /osf_boot || $contains 'OSF/1' /usr/include/ctype.h >/dev/null 2>&1
then
 echo "Looks kind of like an OSF/1 system, but we'll see..."
 echo exit 0 >osf1
elif test `echo abc | $tr a-z A-Z` = Abc ; then
 xxx=`./loc addbib blurfl $pth`
 if $test -f $xxx; then
 echo "Looks kind of like a USG system with BSD features, but we'll see..."
  echo exit 0 >bsd
  echo exit 0 >usg
 else
  if $contains SIGTSTP foo >/dev/null 2>&1 ; then
   echo "Looks kind of like an extended USG system, but we'll see..."
  else
   echo "Looks kind of like a USG system, but we'll see..."
  fi
  echo exit 0 >usg
 fi
elif $contains SIGTSTP foo >/dev/null
 2>&1 ; then
 echo "Looks kind of like a BSD system, but we'll see..."
 d_bsd="$define"
 echo exit 0 >bsd
elif
 $rm --version 2>/dev/null >foo;
 $contains "Free Software Foundation" foo >/dev/null
then
 xxx=`uname`
 echo exit 0 >gnu
 echo "Looks kind of like a GNU/$xxx system, but we'll see..."
 if $test X$xxx = XLinux; then
  d_linux="$define"
  echo exit 0 >linux
 fi
else
 echo "Looks kind of like a Version 7 system, but we'll see..."
 echo exit 0 >v7
fi
case "$eunicefix" in
*unixtovms*)
 $cat <<'EOI'
There is, however, a strange, musty smell in the air that reminds me of
something...hmm...yes...I've got it...there's a VMS nearby, or I'm a Blit.
EOI
 echo exit 0 >eunice
 d_eunice="$define"
```

```
: it so happens the Eunice I know will not run shell scripts in Unix format
 ;;
*)
 echo " "
 echo "Congratulations.  You aren't running Eunice."
 d_eunice="$undef"
 ;;
esac
case "$p_" in
:) ;;
*)
 $cat <<'EOI'
I have the feeling something is not exactly right, however...don't tell me...
EOI
 if
 test -n "$DJGPP"; then
  case "X${MACHTYPE:-nonesuchmach}" in
  cygwin) echo "hah!... you're running under Cygwin!";;
  *) echo "got it... you're running DOS with DJGPP!";;
  esac
  echo exit 0 >dos
  d_dos="$define"
 else
  $cat <<'EOI'
lemme think...does HAL ring a bell?...no, of course, you're only running OS/2!
EOI
  echo exit 0 >os2
  d_os2="$define"
 fi
 ;;
esac
if test -f /xenix; then
 echo "Actually, this looks more like a XENIX system..."
 echo exit 0 >xenix
 d_xenix="$define"
else
 echo " "
 echo "It's not Xenix..."
 d_xenix="$undef"
fi
chmod +x xenix
$eunicefix xenix
if test -f /venix; then
 echo "Actually, this looks more like a VENIX system..."
 echo exit 0 >venix
else
 echo " "
 if ./xenix; then
```

```
  : null
 else
  echo "Nor is it Venix..."
 fi
fi
chmod +x bsd usg v7 osf1 eunice xenix venix dos os2 gnu linux
$eunicefix bsd usg v7 osf1 eunice xenix venix dos os2 gnu linux
$rm -f foo
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Guess.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: warnflags.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Orginal Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: warnflags.U,v $
?RCS: Revision 3.0  1993/08/18  12:10:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:warnflags: cat cc contains Myread Guess Oldconfig Findhdr
?MAKE: -pick add $@ %<
?S:warnflags:
?S: This variable contains any additional C compiler flags to generate
?S: warnings from the compiler. It is up to the Makefile to use this.
?S:.
: offer additional
 warning flags for compilation
$cat <<EOH

You may wish to compile with extra compiler warnings enabled.
Note that doing so enhances your chance of receiving your free set of steak
knives, particularly if you find any bugs and report them.
If you don't want extra warnings, answer "none".

EOH
case "$warnflags" in
") case "$cc" in
```

```
 *gcc*)
  dflt="-Wall -Wno-comment"
  if $contains 'fprintf' `./findhdr stdio.h` >/dev/null 2>&1; then
   :
  else
   dflt="$dflt -Wno-implicit"
  fi
  ;;
 *) dflt="none";;
 esac
 ;;
' ') dflt="none";;
*) dflt="$warnflags";;
esac

rp="Any $cc flags to enable warnings?"
. ./myread
case "$ans" in
none) warnflags=' ';;
*) warnflags="$ans";;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/warnflags.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorman1dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorman1dir.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorman1dir vendorman1direxp installvendorman1dir: man1dir Getfile \
 Oldconfig Setprefixvar Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorman1dir:
?S: This variable contains the name of the directory for man1
?S: pages.  It may have a ~ on the front.
```

```
?S: The standard distribution will put nothing in this directory.
?S: Vendors
 who distribute perl may wish to place their own
?S: man1 pages in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorman1direxp:
?S: This variable is the ~name expanded version of vendorman1dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorman1dir=''
?S:installvendorman1dir:
?S: This variable is really the same as vendorman1direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorman1dir
: Set the vendorman1dir variables
case "$vendorprefix" in
'') vendorman1dir=''
 vendorman1direxp=''
 ;;
*) : determine where vendor-supplied manual pages go.
 case "$vendorman1dir" in
 '') dflt=`echo "$man1dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
 *) dflt=$vendorman1dir ;;
 esac
 case "$dflt" in
 '|' ') dflt=none ;;
 esac
 fn=nd~+
 rp='Pathname for
 the vendor-supplied manual section 1 pages?'
 . ./getfile
 vendorman1dir="$ans"
 vendorman1direxp="$ansexp"
 ;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorman1dir" = "X" && vendorman1dir=' '
prefixvar=vendorman1dir
. ./installprefix
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/vendorman1dir.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_values.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_values.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:48:34  ram
?RCS: patch61: created
?RCS:
?MAKE:i_values: Inhdr
?MAKE: -pick add $@ %<
?S:i_values:
?S: This variable conditionally defines the I_VALUES symbol, and indicates
?S: whether a C program may include <values.h> to get symbols like MAXLONG
?S: and friends.
?S:.
?C:I_VALUES:
?C: This symbol, if defined, indicates to the C program that it should
?C: include
 <values.h> to get definition of symbols like MINFLOAT or
?C: MAXLONG, i.e. machine dependant limitations.  Probably, you
?C: should use <limits.h> instead, if it is available.
?C:.
?H:#$i_values I_VALUES  /**/
?H:.
?LINT:set i_values
: see if this is a values.h system
set values.h i_values
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_values.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2016-2016, H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_gai_strerror: Compile cat rm_try run Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_gai_strerror:
?S: This variable conditionally defines the HAS_GAI_STRERROR symbol
?S: if the gai_strerror() routine is available and can be used to
?S: translate error codes returned by getaddrinfo() into human
?S: readable strings.
?S:.
?C:HAS_GAI_STRERROR:
?C: This symbol, if defined, indicates that the gai_strerror routine
?C: is available to translate error codes returned by getaddrinfo()
?C: into human readable strings.
?C:.
?H:#$d_gai_strerror
 HAS_GAI_STRERROR /**/
?H:.
?F:!try
?LINT: set d_gai_strerror
: look for gai_strerror
echo " "
$cat >try.c <<'EOCP'
#include <sys/types.h>
#include <sys/socket.h>
#include <netdb.h>
int main ()
{
   return (gai_strerror (0) ? 0 : 1);
   }
EOCP
set try
?X: if $cc $ccflags $ldflags -o try try.c $libs >/dev/null 2>&1 ; then
val="$undef"
if eval $compile; then
   `$run ./try`
   case "$?" in
 0)  echo "A working gai_strerror() found." >&4
     val="$define" ;;
 *)  echo "gai_strerror() found, but it doesn't work" >&4
     ;;
 esac
else
   echo "gai_strerror() NOT found." >&4
   fi
set d_gai_strerror
eval $setvar
```

```
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_gai_strerror.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Config_h.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  14:57:43  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:10:49  ram
?RCS: patch59: commented the purpose of the #un-def directive
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:25:39  ram
?RCS: patch49: typo fixes in leading config.h comment (WED)
?RCS:
?RCS: Revision 3.0.1.2  1993/08/24  12:13:20  ram
?RCS: patch3: added TOP as a local shell temporary variable
?RCS:
?RCS: Revision 3.0.1.1  1993/08/19  06:42:20
  ram
?RCS: patch1: leading config.sh searching was not aborting properly
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file ends up producing the config_h.SH script, which is run to produce
?X: the config.h file.  The file ./.Config_h below contains all the ?H: lines
?X: extracted out of all the units.  Metaconfig itself adds the !GROK!THIS!.
?X: Note that this code isn't included into Configure, but must be shipped with.
?X:
?X: For those who wish to know why the file is config_h.SH instead of the more
?X: natural config.h.SH, well... it is to support systems like MS-DOG. Only one
?X: 'dot' is allowed within the file name, as it is part of the "extension" of
?X: the file. MS-DOG will not let you have two 'dots' because that would mean
?X: two "extensions".
```

```
?X:
?MAKE:Config_h: Id End Config_sh Obsol_h myuname cf_time cf_by package src
?MAKE: -pick c_h_weed $@ %<
?MAKE: -pick c_h_weed $@ ./Config_h
?MAKE: -pick
 c_h_weed $@ ./Obsol_h
?T:CONFIG TOP
?LINT:unclosed !GROK!THIS!
?LINT:extern CONFIG_H CONFIG_SH
?LINT:change CONFIG_H CONFIG_SH
?LINT:nocomment
case "$CONFIG_SH" in
") CONFIG_SH=config.sh;;
esac
case "$CONFIG_H" in
") CONFIG_H=config.h;;
esac
case $CONFIG in
")
 if test -f $CONFIG_SH; then TOP=.;
 elif test -f ../$CONFIG_SH; then TOP=..;
 elif test -f ../../$CONFIG_SH; then TOP=../..;
 elif test -f ../../../$CONFIG_SH; then TOP=../../..;
 elif test -f ../../../../$CONFIG_SH; then TOP=../../../..;
 else
  echo "Can't find $CONFIG_SH."; exit 1
 fi
 . $TOP/$CONFIG_SH
 ;;
esac
?X: Make sure we are in the directory where the .SH file is located.
case "$0" in
*/*) cd `expr X$0 : 'X\(.*\)/'` ;;
esac
echo "Extracting $CONFIG_H (with variable substitutions)"
?X:
?X: Since we unconditionally translate leading #undef into /*#define, we're
?X: stuck when we really want to have a #undef in config.h. That's why there
?X: is provision here for #un-def, which is translated back into #undef after
?X:
 all original #undef have been processed.
?X:
?X: Previously, we changed all
?X:  #undef FOO /**/
?X: into
?X:  /*#define FOO /**/
?X: The xlc compiler (available on IBM's AIX) complains that this is
?X: an illegal attempt to write a nested comment, and warns against it.
```

```
?X: There's apparently no way to shut the compiler up, either.
?X: This sed command from Hallvard B Furuseth <h.b.furuseth@usit.uio.no>
?X: changes it to
?X:  /*#define FOO / **/
sed <<!GROK!THIS! >$CONFIG_H -e 's!^#undef\(.*/\)\*!/\*#define\1 \*!' -e 's!^#un-def!#undef!'
/*
* This file was produced by running the config_h.SH script, which
* gets its values from $CONFIG_SH, which is generally produced by
* running Configure.
*
* Feel free to modify any of this as the need arises.  Note, however,
* that running config_h.SH again will wipe out any changes you've made.
* For a more permanent change edit $CONFIG_SH and rerun config_h.SH.
*
* \$Id: Config_h.U 1 2006-08-24 12:32:52Z rmanfredi $
*/

/*
* Package name
     : $package
* Source directory  : $src
* Configuration time: $cf_time
* Configured by     : $cf_by
* Target system     : $myuname
*/

#ifndef _config_h_
#define _config_h_
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Config_h.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
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?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_getespwnam: Inlibc
?MAKE: -pick add $@ %<
?S:d_getespwnam:
?S: This variable conditionally defines HAS_GETESPWNAM if getespwnam() is
```

```
?S: available to retrieve enhanced (shadow) password entries by name.
?S:.
?C:HAS_GETESPWNAM:
?C: This symbol, if defined, indicates that the getespwnam system call is
?C: available to retrieve enhanced (shadow) password entries by name.
?C:.
?H:#$d_getespwnam HAS_GETESPWNAM  /**/
?H:.
?LINT:set d_getespwnam
: see if getespwnam exists
set getespwnam d_getespwnam
eval $inlibc
```

Found in
path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_getespwnam.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: archlib.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  15:23:38  ram
?RCS: patch61: skip existence checks for archlib
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:15:18  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/02/15  14:14:14  ram
?RCS: patch51: architecture name is now computed by a separate unit
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:32:22  ram
?RCS:
 patch49: archname is now systematically recomputed
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:02:36  ram
?RCS: patch36: created by ADO
```

```
?RCS:
?MAKE:d_archlib archlib archlibexp installarchlib: archname afs spackage \
 cat Getfile Loc Oldconfig prefixexp privlib test Prefixit Prefixup
?MAKE: -pick add $@ %<
?Y:TOP
?S:d_archlib:
?S: This variable conditionally defines ARCHLIB to hold the pathname
?S: of architecture-dependent library files for $package.  If
?S: $archlib is the same as $privlib, then this is set to undef.
?S:.
?S:archlib:
?S: This variable holds the name of the directory in which the user wants
?S: to put architecture-dependent public library files for $package.
?S: It is most often a local directory such as /usr/local/lib.
?S: Programs using this variable must be prepared to deal
?S: with filename expansion.
?S:.
?S:archlibexp:
?S: This variable is the same as the archlib variable, but is
?S: filename
 expanded at configuration time, for convenient use.
?S:.
?S:installarchlib:
?S: This variable is really the same as archlibexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?C:ARCHLIB:
?C: This variable, if defined, holds the name of the directory in
?C: which the user wants to put architecture-dependent public
?C: library files for $package.  It is most often a local directory
?C: such as /usr/local/lib.  Programs using this variable must be
?C: prepared to deal with filename expansion.  If ARCHLIB is the
?C: same as PRIVLIB, it is not defined, since presumably the
?C: program already searches PRIVLIB.
?C:.
?C:ARCHLIB_EXP:
?C: This symbol contains the ~name expanded version of ARCHLIB, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#$d_archlib ARCHLIB "$archlib"  /**/
?H:#$d_archlib ARCHLIB_EXP "$archlibexp"  /**/
?H:.
: determine where public architecture
 dependent libraries go
set archlib archlib
eval $prefixit
case "$archlib" in
```

```
")
 case "$privlib" in
 ")
  dflt=`./loc . "." $prefixexp/lib /usr/local/lib /usr/lib /lib`
  set dflt
  eval $prefixup
  ;;
 *)  dflt="$privlib/$archname";;
 esac
 ;;
*) dflt="$archlib";;
esac
cat <<EOM

$spackage contains architecture-dependent library files.  If you are
sharing libraries in a heterogeneous environment, you might store
these files in a separate location.  Otherwise, you can just include
them with the rest of the public library files.

EOM
fn=d+~
rp='Where do you want to put the public architecture-dependent libraries?'
. ./getfile
archlib="$ans"
archlibexp="$ansexp"

if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
private files reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installarchlib" in
 ") dflt=`echo $archlibexp | sed 's#^/afs/#/afs/.#'`;;
 *)
 dflt="$installarchlib";;
 esac
 fn=de~
 rp='Where will architecture-dependent library files be installed?'
 . ./getfile
 installarchlib="$ans"
else
 installarchlib="$archlibexp"
fi
if $test X"$archlib" = X"$privlib"; then
 d_archlib="$undef"
```

```
else
 d_archlib="$define"
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/archlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_llround: Inlibc
?MAKE: -pick add $@ %<
?S:d_llround:
?S: This variable conditionally defines the HAS_LLROUND symbol, which
?S: indicates to the C program that the llround() routine is available
?S: to return the long long value nearest to x.
?S:.
?C:HAS_LLROUND:
?C: This symbol, if defined, indicates that the llround routine is
?C: available to return the nearest long long value.
?C:.
?H:#$d_llround HAS_LLROUND  /**/
?H:.
?LINT:set d_llround
: see if llround exists
set llround d_llround
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_llround.U
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```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getmnt: Inlibc
?MAKE: -pick add $@ %<
?S:d_getmnt:
?S: This variable conditionally defines the HAS_GETMNT symbol, which
?S: indicates to the C program that the getmnt() routine is available
?S: to retrieve one or more mount info blocks by filename.
```

```
?S:.
?C:HAS_GETMNT:
?C: This symbol, if defined, indicates that the getmnt routine is
?C: available to get filesystem mount info by filename.
?C:.
?H:#$d_getmnt HAS_GETMNT  /**/
?H:.
?LINT:set d_getmnt
: see if getmnt exists
set getmnt d_getmnt
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_getmnt.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: models.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:13:17  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:02:39  ram
?RCS: patch6: added default for large
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:models split small medium large huge: test cat Myread sysman Oldconfig \
 Loc Warn contains rm
?MAKE: -pick add $@ %<
?S:models:
?S: This variable contains the list of memory models supported by
 this
?S: system.  Possible component values are none, split, unsplit, small,
?S: medium, large, and huge.  The component values are space separated.
?S:.
?S:split:
?S: This variable contains a flag which will tell the C compiler and loader
```

```
?S: to produce a program that will run in separate I and D space, for those
?S: machines that support separation of instruction and data space.  It is
?S: up to the Makefile to use this.
?S:.
?S:small:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program running with a small memory model.  It is up to
?S: the Makefile to use this.
?S:.
?S:medium:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program running with a medium memory model.  If the
?S: medium model is not supported, contains the flag to produce large
?S: model programs.  It is up to the Makefile to use this.
?S:.
?S:large:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to
 produce a program running with a large memory model.  It is up to
?S: the Makefile to use this.
?S:.
?S:huge:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program running with a huge memory model.  If the
?S: huge model is not supported, contains the flag to produce large
?S: model programs.  It is up to the Makefile to use this.
?S:.
?T:unsplit tans modelcc
?F:!pdp11
?D:large=''
?LINT:extern cc
: see what memory models we can support
case "$models" in
'')
?X: We may not use Cppsym or we get a circular dependency through cc.
?X: But this should work regardless of which cc we eventually use.
 $cat >pdp11.c <<'EOP'
int main() {
#ifdef pdp11
 exit(0);
#else
 exit(1);
#endif
}
EOP
?X: Run cc in a subshell in case they don't have a 'cc' command.
?X: Presumably they do have gcc or something.
 case "$cc" in
```

```
") modelcc="$cc" ;;
*) modelcc="cc" ;;
esac
( $modelcc -o pdp11 pdp11.c ) >/dev/null 2>&1
if $test -f pdp11 && ./pdp11 2>/dev/null;
then
 dflt='unsplit split'
else
 tans=`./loc . X /lib/small /lib/large /usr/lib/small /usr/lib/large /lib/medium /usr/lib/medium /lib/huge`
 case "$tans" in
 X) dflt='none';;
 *) if $test -d /lib/small || $test -d /usr/lib/small; then
  dflt='small'
  else
  dflt=''
  fi
  if $test -d /lib/medium || $test -d /usr/lib/medium; then
  dflt="$dflt medium"
  fi
  if $test -d /lib/large || $test -d /usr/lib/large; then
  dflt="$dflt large"
  fi
  if $test -d /lib/huge || $test -d /usr/lib/huge; then
  dflt="$dflt huge"
  fi
 esac
fi;;
*) dflt="$models";;
esac
$cat <<EOM

Some systems have different model sizes.  On most systems they are called
small, medium, large, and huge.  On the PDP11 they are called unsplit and
split.  If your system doesn't support different memory models, say "none".
If you wish to force everything to one memory model, say "none" here and
put the appropriate flags later when it asks you for other cc and ld flags.
Venix systems may wish
 to put "none" and let the compiler figure things out.
(In the following question multiple model names should be space separated.)

The default for most systems is "none".

EOM
rp="Which memory models are supported?"
. ./myread
models="$ans"

case "$models" in
```

```
none)
 small=''
 medium=''
 large=''
 huge=''
 unsplit=''
 split=''
 ;;
*split)
 case "$split" in
 '') if $contains '\-i' $sysman/ld.1 >/dev/null 2>&1 || \
    $contains '\-i' $sysman/cc.1 >/dev/null 2>&1; then
   dflt='-i'
  else
   dflt='none'
  fi;;
 *) dflt="$split";;
 esac
 rp="What flag indicates separate I and D space?"
 . ./myread
 tans="$ans"
 case "$tans" in
 none) tans='';;
 esac
 split="$tans"
 unsplit='';;
*large*|*small*|*medium*|*huge*)
 case "$models" in
 *large*)
  case "$large" in
  '') dflt='-Ml';;
  *) dflt="$large";;
  esac
 rp="What flag indicates large model?"
 . ./myread
 tans="$ans"
 case "$tans" in
 none) tans='';
 esac
 large="$tans";;
 *) large='';;
 esac
 case "$models" in
 *huge*) case "$huge" in
  '')
 dflt='-Mh';;
  *) dflt="$huge";;
  esac
```

```
 rp="What flag indicates huge model?"
 . ./myread
 tans="$ans"
 case "$tans" in
 none) tans=";
 esac
 huge="$tans";;
*) huge="$large";;
esac
case "$models" in
*medium*) case "$medium" in
 ") dflt='-Mm';;
 *) dflt="$medium";;
 esac
 rp="What flag indicates medium model?"
 . ./myread
 tans="$ans"
 case "$tans" in
 none) tans=";
 esac
 medium="$tans";;
*) medium="$large";;
esac
case "$models" in
*small*) case "$small" in
 ") dflt='none';;
 *) dflt="$small";;
 esac
 rp="What flag indicates small model?"
 . ./myread
 tans="$ans"
 case "$tans" in
 none) tans=";
 esac
 small="$tans";;
*) small=";;
esac
;;
*)
 ./warn "Unrecognized memory models--you may have to edit Makefile.SH"
 ;;
esac
$rm -f pdp11.* pdp11
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/models.U

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```
?RCS: $Id: d_gnulibc.U,v 3.0.1.1 1997/02/28 15:34:33 ram Exp $
?RCS:
?RCS: Copyright (c) 1996,1998 Andy Dougherty
?RCS: Copyright (c) 1996, Sven Verdoolaege
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_gnulibc.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:34:33  ram
?RCS: patch61: created
?RCS:
?MAKE:d_gnulibc gnulibc_version: Myread Oldconfig Setvar rm_try \
 cat Compile run
?MAKE: -pick add $@ %<
?S:d_gnulibc:
?S: Defined if we're dealing with the GNU C Library.
?S:.
?S:gnulibc_version:
?S: This variable contains the version number of the GNU C library.
?S: It is
 usually something like '2.2.5'.  It is a plain '' if this
?S: is not the GNU C library, or if the version is unknown.
?S:.
?C:HAS_GNULIBC:
?C: This symbol, if defined, indicates to the C program that
?C: the GNU C library is being used.  A better check is to use
?C: the __GLIBC__ and __GLIBC_MINOR__ symbols supplied with glibc.
?C:.
?H:#$d_gnulibc HAS_GNULIBC /**/
?H:?%<:#if defined(HAS_GNULIBC) && !defined(_GNU_SOURCE)
?H:?%<:#   define _GNU_SOURCE
?H:?%<:#endif
?H:.
?F:!glibc.ver !try
?LINT: set d_gnulibc
?X: gnulibc can be executed by calling __libc_main().
?X: Ulrich Drepper doesn't think any other libc does that,
?X: but we check if it says 'GNU C Library' to be sure.
?X:
?X: Alas, as of 3/1998 glibc 2.0.7 reportedly isn't going to
?X: have __libc_main() anymore. :-(.  Fortunately, all released
```

```
?X: versions of glibc 2.x.x _do_ have CPP variables.  For 2.0.6,
?X: they are:
?X: #define __GLIBC__  2
?X: #define__GLIBC_MINOR__ 0.
?X: (The '6' isn't available :-(.
?X: glibc2.1 will also
 have
?X:  extern const char * __gnu_get_libc_release(void);
?X:  extern const char * __gnu_get_libc_version(void);
?X: functions.   --thanks to Andreas Jaeger.   --AD  6/1998.
?X: Although the exact format isn't documented, __gnu_get_libc_version()
?X: returns a simple string '2.1.3' in glibc 2.1.3.
?X:
: Check if we are using the GNU C library
echo " "
echo "Checking for GNU C Library..." >&4
cat >try.c <<'EOCP'
/* Find out version of GNU C library.  __GLIBC__ and __GLIBC_MINOR__
  alone are insufficient to distinguish different versions, such as
  2.0.6 and 2.0.7.  The function gnu_get_libc_version() appeared in
  libc version 2.1.0.      A. Dougherty,  June 3, 2002.
*/
#include <stdio.h>
int main(void)
{
#ifdef __GLIBC__
#   ifdef __GLIBC_MINOR__
#       if __GLIBC__ >= 2 && __GLIBC_MINOR__ >= 1 && !defined(__cplusplus)
#           include <gnu/libc-version.h>
     printf("%s\n",  gnu_get_libc_version());
#       else
     printf("%d.%d\n",  __GLIBC__, __GLIBC_MINOR__);
#
   endif
#   else
 printf("%d\n",  __GLIBC__);
#   endif
   return 0;
#else
   return 1;
#endif
}
EOCP
set try
if eval $compile_ok && $run ./try > glibc.ver; then
 val="$define"
 gnulibc_version=`$cat glibc.ver`
 echo "You are using the GNU C Library version $gnulibc_version"
```

```
else
 val="$undef"
 gnulibc_version=''
 echo "You are not using the GNU C Library"
fi
$rm_try glibc.ver
set d_gnulibc
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_gnulibc.U
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```
?RCS: $Id: i_shadow.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_shadow: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_shadow:
?S: This variable conditionally defines the I_SHADOW symbol, and indicates
?S: whether a C program should include <shadow.h>.
?S:.
?C:I_SHADOW:
?C: This symbol, if defined, indicates that <shadow.h> exists and
?C: should be included.
?C:.
?H:#$i_shadow I_SHADOW  /**/
?H:.
?LINT:set i_shadow
: see if this is a shadow.h system
set shadow.h i_shadow
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_shadow.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_msgrcv.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msgrcv.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:40  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_msgrcv: Inlibc
?MAKE: -pick add $@ %<
?S:d_msgrcv:
?S: This variable conditionally defines the HAS_MSGRCV symbol, which
?S: indicates to the C program that the msgrcv() routine is available.
?S:.
?C:HAS_MSGRCV:
?C: This symbol, if defined, indicates that the msgrcv() routine is
?C: available to extract a message from the message queue.
?C:.
?H:#$d_msgrcv
 HAS_MSGRCV  /**/
?H:.
?LINT:set d_msgrcv
: see if msgrcv exists
set msgrcv d_msgrcv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_msgrcv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: dlsrc.U,v$
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: dlsrc.U,v $
?RCS:
?X:  hpux support thanks to Jeff Okamoto <okamoto@hpcc101.corp.hp.com>
?X:
?X:  To create a shared library, you must compile ALL source files in the
?X:  library with +z (or possibly +Z if the library is whopping huge),
?X:  then link the library with -b.  Example:
?X:   cc -c +z module_a.c
?X:   cc -c +z module_b.c
```

```
?X:   ld -b module_a.o module_b.o -o module.sl
?X:
?MAKE:usedl ld dlsrc cccdlflags lddlflags ccdlflags bin_ELF ld_can_script: \
 rm_try Getfile Myread test osname sed d_dlopen Findhdr Setvar \
 src run cc ccflags ldflags optimize ls gccversion cat rsrc i_stdlib \
 i_unistd osvers sysroot
?MAKE: -pick add $@ %<
?Y:BOTTOM
?S:usedl:
?S: This variable
 indicates if the system supports dynamic
?S: loading of some sort.  See also dlsrc and dlobj.
?S:.
?S:ld:
?S: This variable indicates the program to be used to link
?S: libraries for dynamic loading.  On some systems, it is 'ld'.
?S: On ELF systems, it should be $cc.  Mostly, we'll try to respect
?S: the hint file setting.
?S:.
?S:dlsrc:
?S: This variable contains the name of the dynamic loading file that
?S: will be used with the package.
?S:.
?S:cccdlflags:
?S: This variable contains any special flags that might need to be
?S: passed with 'cc -c' to compile modules to be used to create a shared
?S: library that will be used for dynamic loading.  For hpux, this
?S: should be +z.  It is up to the makefile to use it.
?S:.
?S:lddlflags:
?S: This variable contains any special flags that might need to be
?S: passed to $ld to create a shared library suitable for dynamic
?S: loading.  It is up to the makefile to use it.  For hpux, it
?S: should be '-b'.  For sunos 4.1, it is empty.
?S:.
?S:ccdlflags:
?S: This
 variable contains any special flags that might need to be
?S: passed to cc to link with a shared library for dynamic loading.
?S: It is up to the makefile to use it.  For sunos 4.1, it should
?S: be empty.
?S:.
?S:bin_ELF:
?S: This variable saves the result from configure if generated binaries
?S: are in ELF format. Only set to defined when the test has actually
?S: been performed, and the result was positive.
?S:.
?S:ld_can_script:
```

```
?S: This variable shows if the loader accepts scripts in the form of
?S: -Wl,--version-script=ld.script. This is currently only supported
?S: for GNU ld on ELF in dynamic loading builds.
?S:.
?C:USE_DYNAMIC_LOADING ~ %<:
?C: This symbol, if defined, indicates that dynamic loading of
?C: some sort is available.
?C:.
?H:?%<:#$usedl USE_DYNAMIC_LOADING  /**/
?H:.
?W:%<:dlopen
?T:dldir thisflag tdir
?F:!a.out
: determine which dynamic loading, if any, to compile in
echo " "
dldir="ext/DynaLoader"
case "$usedl" in
   $define|y|true)
 dflt='y'
 usedl="$define"
 ;;
    $undef|n|false)
 dflt='n'
 usedl="$undef"
 ;;
   *)
 dflt='n'
 case "$d_dlopen" in
     $define) dflt='y' ;;
 esac
 : Does a dl_xxx.xs file exist for this operating system
 $test -f $rsrc/$dldir/dl_${osname}.xs && dflt='y'
 ;;
esac
rp="Do you wish to use dynamic loading?"
. ./myread
usedl="$ans"
bin_ELF="$undef"
case "$ans" in
   y*) usedl="$define"
 case "$dlsrc" in
     ") if $test -f $rsrc/$dldir/dl_${osname}.xs ; then
      dflt="$dldir/dl_${osname}.xs"
  elif $test "$d_dlopen" = "$define" ; then
      dflt="$dldir/dl_dlopen.xs"
  else
      dflt="
  fi
```

```
 ;;
    *)  dflt="$dldir/$dlsrc"
 ;;
esac
echo "The following dynamic loading files are available:"
: Can not go over to $dldir because getfile has path hard-coded in.
tdir=`pwd`; cd "$rsrc"; $ls -C $dldir/dl*.xs; cd "$tdir"
rp="Source file to use for dynamic loading"
fn="fne"
gfpth="$src"
. ./getfile
usedl="$define"
: emulate basename
dlsrc=`echo $ans | $sed -e 's%.*/\([^/]*\)$%\1%'`

$cat
<< EOM

Some systems may require passing special flags to $cc -c to
compile modules that will be used to create a shared library.
To use no flags, say "none".

EOM
 case "$cccdlflags" in
    ") case "$gccversion" in
  ") case "$osname" in
  hpux) dflt='+z' ;;
  irix*) dflt='-KPIC' ;;
  svr4*|esix*|solaris|nonstopux) dflt='-KPIC' ;;
  sunos) dflt='-pic' ;;
  *) dflt='none' ;;
     esac
     ;;
 *)  case "$osname" in
  darwin) dflt='none' ;;
  *linux*|svr4*|esix*|solaris|nonstopux) dflt='-fPIC' ;;
  *) dflt='-fpic' ;;
     esac ;;
 esac ;;
    ' ') dflt='none' ;;
    *)   dflt="$cccdlflags" ;;
esac

case "$dflt" in
    none) dflt=" ;;
esac

# If -Dsysroot was specified, now's the time to add it
```

```
 # to cccdlflags
 if test "X$sysroot" != X; then
     case "$gccversion" in
  ") ;;
  *)  case "$dflt" in
   *sysroot*) ;;
   'undef'|*)
       dflt="$dflt --sysroot=$sysroot" ;;
      esac
      ;;
     esac
 fi

 case "$dflt" in
     ") dflt='none';;
 esac

 rp="Any
 special flags to pass to $cc -c to compile shared library modules?"
 . ./myread
 case "$ans" in
?X: Use ' ' so that a subsequent Configure run preserves the old state.
     none) cccdlflags=' ' ;;
     *)    cccdlflags="$ans" ;;
 esac

 cat << EOM

Some systems use ld to create libraries that can be dynamically loaded,
while other systems (such as those using ELF) use $cc.

EOM

: Determine if this is ELF
 $cat >try.c <<EOM
/* Test for whether ELF binaries are produced */
#include <fcntl.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_unistd I_UNISTD
#ifdef I_UNISTD
#include <unistd.h>
#endif
int main() {
   char b[4];
   int i = open("a.out",O_RDONLY);
```

```
  if(i == -1)
 exit(1); /* fail */
  if(read(i,b,4)==4 && b[0]==127 && b[1]=='E' && b[2]=='L' && b[3]=='F')
 exit(0); /* succeed (yes, it is ELF) */
  exit(1); /* fail */
}
EOM
 if $cc $ccflags $ldflags -o a.out try.c >/dev/null 2>&1 && $run ./a.out; then
    bin_ELF="$define"
 fi
 $rm_try

 case "$ld" in

   ") if $test $bin_ELF = "$define"; then
     cat <<EOM
You appear to have ELF support.  I'll use $cc to build dynamic libraries.
EOM
     dflt="$cc"
  else
     echo "I'll use ld to build dynamic libraries."
     dflt='ld'
  fi
  ;;
    *)  dflt="$ld"
  ;;
 esac

 rp="What command should be used to create dynamic libraries?"
 . ./myread
 ld="$ans"

 cat << EOM

Some systems may require passing special flags to $ld to create a
library that can be dynamically loaded.  If your ld flags include
-L/other/path options to locate libraries outside your loader's normal
search path, you may need to specify those -L options here as well.  To
use no flags, say "none".

EOM
 case "$lddlflags" in
    ") case "$osname" in
     haiku) dflt='-shared' ;;
     hpux) dflt='-b';
    case "$gccversion" in
        ") dflt="$dflt +vnocompatwarnings" ;;
    esac
```

```
    ;;
     *linux*|irix*|gnu*)  dflt="-shared $optimize" ;;
     solaris) # See [perl #66604].
      # On Solaris 11, gcc -m64
on amd64
      # appears not to understand -G.  gcc versions at
      # least as old as 3.4.3 support -shared, so just
      # use that with Solaris 11 and later, but keep
      # the old behavior for older Solaris versions.
      case "$gccversion" in
   ") dflt='-G' ;;
   *)  case "$osvers" in
    2.?|2.10) dflt='-G' ;;
    *) dflt='-shared' ;;
       esac
       ;;
      esac
      ;;
     sunos) dflt='-assert nodefinitions' ;;
     svr4*|esix*|nonstopux) dflt="-G $ldflags" ;;
     *)     dflt='none' ;;
 esac
 ;;
    *) dflt="$lddlflags" ;;
esac

: Only do this for gcc, since, for example, qcc has no concept
: of --sysroot.
if $test "X$sysroot" != X; then
    case "$gccversion" in
 ") ;;
 *)  dflt="$dflt --sysroot=$sysroot" ;;
    esac
fi

: Try to guess additional flags to pick up local libraries.
: Be careful not to append to a plain 'none'
case "$dflt" in
    none) dflt=" ;;
esac
for thisflag in $ldflags; do
    case "$thisflag" in
 -L*|-R*|-Wl,-R*)

   case " $dflt " in
  *" $thisflag "*) ;;
  *) dflt="$dflt $thisflag" ;;
     esac
```

```
     ;;
    esac
done

case "$dflt" in
    "|' ') dflt='none' ;;
esac

case "$ldflags" in
    *-fstack-protector-strong*)
 case "$dflt" in
     *-fstack-protector-strong*) ;; # Don't add it again
     *) dflt="$dflt -fstack-protector-strong" ;;
 esac
 ;;
    *-fstack-protector*)
 case "$dflt" in
     *-fstack-protector*) ;; # Don't add it again
     *) dflt="$dflt -fstack-protector" ;;
 esac
 ;;
esac

rp="Any special flags to pass to $ld to create a dynamically loaded library?"
. ./myread
case "$ans" in
?X: Use ' ' so that a subsequent Configure run preserves the old state.
    none) lddlflags=' ' ;;
    *) lddlflags="$ans" ;;
esac

cat <<EOM

Some systems may require passing special flags to $cc to indicate that
the resulting executable will use dynamic linking.  To use no flags,
say "none".

EOM
 case "$ccdlflags" in
    ") case "$osname" in
     *linux*|hpux|gnu*)
dflt='-Wl,-E' ;;
     sunos)             dflt='none'   ;;
     *)                 dflt='none'   ;;
 esac ;;
    ' ') dflt='none' ;;
    *)   dflt="$ccdlflags" ;;
esac
```

```
 rp="Any special flags to pass to $cc to use dynamic linking?"
 . ./myread
 case "$ans" in
?X: Use ' ' so that a subsequent Configure run preserves the old state.
     none) ccdlflags=' ' ;;
     *)    ccdlflags="$ans" ;;
 esac
 ;;
?X: End of usedl=y section

   *)  usedl="$undef"
 ld='ld'
 dlsrc='dl_none.xs'
 lddlflags=''
 ccdlflags=''
 ;;
esac

ld_can_script="$undef"
case "$bin_ELF$usedl" in
   $define$define)
 # Abuse try.h and a.out names for neat cleanup
 $cat >try.c <<EOM
void foo() {}
void bar() {}
EOM
 $cat >try.h <<EOM
LIBTEST_42 {
global:
 foo;
local: *;
};
EOM
 if $cc $cccdlflags $ccdlflags $ccflags \
        $ldflags $lddlflags -o a.out try.c \
        -Wl,--version-script=try.h >/dev/null 2>&1 \
    &&  $test -s a.out ; then
     echo "ld supports scripting" >&4
     ld_can_script="$define"
 else

    echo "ld does not support scripting" >&4
 fi
 $rm_try
 ;;
esac

Found in path(s):
```

* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/dlsrc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_lroundl: Inlibc
?MAKE: -pick add $@ %<
?S:d_lroundl:
?S: This variable conditionally defines the HAS_LROUNDL symbol, which
?S: indicates to the C program that the lroundl() routine is available
?S: to return the integral value nearest to x away from zero.
?S:.
?C:HAS_LROUNDL:
?C: This symbol, if defined, indicates that the lroundl routine is
?C: available to return the nearest integral value away from zero of
?C: the long double argument value.
?C:.
?H:#$d_lroundl HAS_LROUNDL  /**/
?H:.
?LINT:set d_lroundl
: see if lroundl exists
set lroundl d_lroundl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_lroundl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fseeko: Inlibc longsize
?MAKE: -pick add $@ %<
?S:d_fseeko:
?S: This variable conditionally defines the HAS_FSEEKO symbol, which
?S: indicates to the C program that the fseeko() routine is available.
?S:.
?C:HAS_FSEEKO:
?C: This symbol, if defined, indicates that the fseeko routine is
?C: available to fseek beyond 32 bits (useful for ILP32 hosts).
?C:.
```

```
?H:#$d_fseeko HAS_FSEEKO  /**/
?H:.
?LINT:set d_fseeko
: see if fseeko exists
set fseeko d_fseeko
eval $inlibc
case "$longsize" in
8) echo "(Your long is 64 bits, so you could use fseek.)" ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fseeko.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_regcmp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_regcmp.U,v $
?RCS: Revision 3.0.1.1  1995/01/30  14:34:45  ram
?RCS: patch49: now looks for POSIX regcomp() routine
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:53  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_regcmp d_re_comp d_regcomp: Csym cat
?MAKE: -pick add $@ %<
?S:d_regcomp:
?S: This variable conditionally defines the HAS_REGCOMP symbol, which
?S: indicates to the C program that the regcomp() routine is available
?S: for regular
 pattern matching (usually on POSIX.2 conforming systems).
?S:.
?S:d_regcmp:
?S: This variable conditionally defines the HAS_REGCMP symbol, which
?S: indicates to the C program that the regcmp() routine is available
?S: for regular pattern matching (usually on System V).
?S:.
?S:d_re_comp:
?S: This variable conditionally defines the HAS_RECOMP symbol, which
?S: indicates to the C program that the re_comp() routine is available
```

```
?S: for regular pattern matching (usually on BSD). If so, it is likely that
?S: re_exec() exists.
?S:.
?C:HAS_REGCOMP (REGCOMP):
?C: This symbol, if defined, indicates that the regcomp() routine is
?C: available to do some regular pattern matching (usually on POSIX.2
?C: conforming systems).
?C:.
?C:HAS_REGCMP (REGCMP):
?C: This symbol, if defined, indicates that the regcmp() routine is
?C: available to do some regular pattern matching (usually on System V).
?C:.
?C:HAS_RECOMP (RECOMP):
?C: This symbol, if defined, indicates that the re_comp() routine is
?C: available
 to do some regular pattern matching (usually on BSD). If so,
?C: it is likely that re_exec() be available.
?C:.
?H:#$d_regcomp HAS_REGCOMP  /* POSIX.2 */
?H:#$d_regcmp HAS_REGCMP  /* sysV */
?H:#$d_re_comp HAS_RECOMP  /* BSD */
?H:.
?T:val
: see if regcomp, regcmp, or re_comp exist, for regular pattern matching
echo " "
if set regcomp val -f d_regcomp; eval $csym; $val; then
 echo 'regcomp() found.' >&4
 d_regcomp="$define"
 d_regcmp="$undef"
 d_re_comp="$undef"
elif set regcmp val -f d_regcmp; eval $csym; $val; then
 echo 'regcmp() found.' >&4
 d_regcmp="$define"
 d_regcomp="$undef"
 d_re_comp="$undef"
elif set re_comp val -f d_re_comp; eval $csym; $val; then
 echo 're_comp() found, assuming re_exec() also exists.' >&4
 d_re_comp="$define"
 d_regcomp="$undef"
 d_regcmp="$undef"
else
 $cat >&4 <<EOM
No regcomp(), regcmp() nor re_comp() found !! No regular pattern matching.
EOM
 d_regcmp="$undef"
 d_re_comp="$undef"
 d_regcomp="$undef"
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_regcmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_trunc: Inlibc
?MAKE: -pick add $@ %<
?S:d_trunc:
?S: This variable conditionally defines the HAS_TRUNC symbol, which
?S: indicates to the C program that the trunc() routine is available
?S: to round doubles towards zero.
?S:.
?C:HAS_TRUNC:
?C: This symbol, if defined, indicates that the trunc routine is
?C: available to round doubles towards zero.
?C:.
?H:#$d_trunc HAS_TRUNC  /**/
?H:.
?LINT:set d_trunc
: see if trunc exists
set trunc d_trunc
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_trunc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_msync.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msync.U,v $
?RCS: Revision 3.0.1.1  1993/12/15  08:19:17  ram
?RCS: patch15: created
?RCS:
?MAKE:d_msync: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_msync:
?S: This variable conditionally defines HAS_MSYNC if msync() is
?S: available to synchronize a mapped file.
?S:.
?C:HAS_MSYNC:
?C: This symbol, if defined, indicates that the msync system call is
?C: available to synchronize a mapped file.
?C:.
?H:#$d_msync HAS_MSYNC  /**/
?H:.
?LINT:set d_msync
: see if
 msync exists
set msync d_msync
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_msync.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:sitehtml3dir sitehtml3direxp installsitehtml3dir: Getfile \
 Setprefixvar prefix siteprefix html3dir sed
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitehtml3dir=''
?S:sitehtml3dir:
?S: This variable contains the name of the directory in which site-specific
?S: library html source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S: The standard distribution will put nothing in this directory.
?S: After
 perl has been installed, users may install their own local
?S: library html pages in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
```

```
?D:sitehtml3direxp="
?S:sitehtml3direxp:
?S: This variable is the same as the sitehtml3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsitehtml3dir="
?S:installsitehtml3dir:
?S: This variable is really the same as sitehtml3direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: html3direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installsitehtml3dir
?LINT:set sitehtml3dir
?LINT:set sitehtml3direxp
: determine where add-on library html pages go
: There is no standard location, so try to copy the previously-selected
: directory structure for the core html pages.
case
 "$sitehtml3dir" in
")    dflt=`echo "$html3dir" | $sed "s#^$prefix#$siteprefix#"` ;;
*)     dflt=$sitehtml3dir ;;
esac
case "$dflt" in
"|' ') dflt=none ;;
esac
fn=dn+~
rp='Pathname where the site-specific library html pages should be installed?'
. ./getfile
prefixvar=sitehtml3dir
. ./setprefixvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/sitehtml3dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_perlio.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_perlio.U,v $
?RCS:
?MAKE:useperlio: Myread Oldconfig Setvar
```

```
?MAKE: -pick add $@ %<
?Y:TOP
?S:useperlio:
?S: This variable conditionally defines the USE_PERLIO symbol,
?S: and indicates that the PerlIO abstraction should be
?S: used throughout.
?S:.
?C:USE_PERLIO:
?C: This symbol, if defined, indicates that the PerlIO abstraction should
?C: be used throughout.  If not defined, stdio should be
?C: used in a fully backward compatible manner.
?C:.
?H:?%<:#ifndef USE_PERLIO
?H:?%<:#$useperlio USE_PERLIO  /**/
?H:?%<:#endif
?H:.
: Check if we want perlio
useperlio="$define"
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/useperlio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: nblock_io.U,v 3.0.1.2 1997/02/28 16:17:14 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: nblock_io.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:17:14  ram
?RCS: patch61: simplify here document for shells that can't handle them well
?RCS: patch61: force use of "startsh" at the head of the generated script
?RCS: patch61: added new files to the ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  14:13:22  ram
?RCS: patch56: created
?RCS:
?X:
?X: Simplify here document for shells that can't handle them well.
?X: (Problem reported on FreeBSD;
 it's unclear if this helps.)  --AD
?X:
```

```
?MAKE:o_nonblock eagain rd_nodata d_eofnblk: cat rm_try Compile run \
 d_open3 h_sysfile h_fcntl signal_t hint Oldconfig Setvar \
 startsh i_unistd i_fcntl i_stdlib d_fork d_pipe d_alarm
?MAKE: -pick add $@ %<
?S:o_nonblock:
?S: This variable bears the symbol value to be used during open() or fcntl()
?S: to turn on non-blocking I/O for a file descriptor. If you wish to switch
?S: between blocking and non-blocking, you may try ioctl(FIOSNBIO) instead,
?S: but that is only supported by some devices.
?S:.
?S:eagain:
?S: This variable bears the symbolic errno code set by read() when no
?S: data is present on the file and non-blocking I/O was enabled (otherwise,
?S: read() blocks naturally).
?S:.
?S:rd_nodata:
?S: This variable holds the return code from read() when no data is
?S: present. It should be -1, but some systems return 0 when O_NDELAY is
?S: used, which is a shame because you cannot make the difference between
?S: no data and an EOF.. Sigh!
?S:.
?S:d_eofnblk:
?S: This
 variable conditionally defines EOF_NONBLOCK if EOF can be seen
?S: when reading from a non-blocking I/O source.
?S:.
?C:VAL_O_NONBLOCK:
?C: This symbol is to be used during open() or fcntl(F_SETFL) to turn on
?C: non-blocking I/O for the file descriptor. Note that there is no way
?C: back, i.e. you cannot turn it blocking again this way. If you wish to
?C: alternatively switch between blocking and non-blocking, use the
?C: ioctl(FIOSNBIO) call instead, but that is not supported by all devices.
?C:.
?C:VAL_EAGAIN:
?C: This symbol holds the errno error code set by read() when no data was
?C: present on the non-blocking file descriptor.
?C:.
?C:RD_NODATA:
?C: This symbol holds the return code from read() when no data is present
?C: on the non-blocking file descriptor. Be careful! If EOF_NONBLOCK is
?C: not defined, then you can't distinguish between no data and EOF by
?C: issuing a read(). You'll have to find another way to tell for sure!
?C:.
?C:EOF_NONBLOCK:
?C: This
 symbol, if defined, indicates to the C program that a read() on
?C: a non-blocking file descriptor will return 0 on EOF, and not the value
?C: held in RD_NODATA (-1 usually, in that case!).
```

```
?C:.
?H:#define VAL_O_NONBLOCK $o_nonblock
?H:#define VAL_EAGAIN $eagain
?H:#define RD_NODATA $rd_nodata
?H:#$d_eofnblk EOF_NONBLOCK
?H:.
?T:status
?F:!try.out !try.ret !try.err !try !mtry
?LINT:use d_open3
: check for non-blocking I/O stuff
case "$h_sysfile" in
true) echo "#include <sys/file.h>" > head.c;;
*)
	case "$h_fcntl" in
	true) echo "#include <fcntl.h>" > head.c;;
	*) echo "#include <sys/fcntl.h>" > head.c;;
	esac
	;;
esac
echo " "
echo "Figuring out the flag used by open() for non-blocking I/O..." >&4
case "$o_nonblock" in
")
 $cat head.c > try.c
 $cat >>try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_fcntl I_FCNTL
#ifdef I_FCNTL
#include <fcntl.h>
#endif
int main() {
#ifdef O_NONBLOCK
 printf("O_NONBLOCK\n");
 exit(0);
#endif
#ifdef
 O_NDELAY
 printf("O_NDELAY\n");
 exit(0);
#endif
?X: Stevens "Advanced Programming in the UNIX Environment" page 364 mentions
?X: the FNDELAY symbol, used in 4.3BSD (source: Paul Marquess).
#ifdef FNDELAY
 printf("FNDELAY\n");
```

```
 exit(0);
#endif
 exit(0);
}
EOCP
 set try
 if eval $compile_ok; then
  o_nonblock=`$run ./try`
  case "$o_nonblock" in
  ") echo "I can't figure it out, assuming O_NONBLOCK will do.";;
  *) echo "Seems like we can use $o_nonblock.";;
  esac
 else
  echo "(I can't compile the test program; pray O_NONBLOCK is right!)"
 fi
 ;;
*) echo "Using $hint value $o_nonblock.";;
esac
$rm_try

echo " "
echo "Let's see what value errno gets from read() on a $o_nonblock file..." >&4
case "$eagain" in
")
 case "$d_fork:$d_pipe:$d_alarm" in
 define:define:define)
 $cat head.c > try.c
 $cat >>try.c <<EOCP
#include <errno.h>
#include <sys/types.h>
#include <signal.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_fcntl
 I_FCNTL
#ifdef I_FCNTL
#include <fcntl.h>
#endif
#define MY_O_NONBLOCK $o_nonblock
#ifndef errno  /* XXX need better Configure test */
extern int errno;
#endif
#$i_unistd I_UNISTD
#ifdef I_UNISTD
#include <unistd.h>
```

```
#endif
#include <string.h>
$signal_t blech(int x) { exit(3); }
EOCP
 $cat >> try.c <<'EOCP'
int main()
{
 int pd[2];
 int pu[2];
 char buf[1];
 char string[100];
 int ret;

 ret = pipe(pd); /* Down: child -> parent */
 if (ret != 0)
  exit(3);
 ret = pipe(pu); /* Up: parent -> child */
 if (ret != 0)
  exit(3);
 if (0 != fork()) {
  close(pd[1]); /* Parent reads from pd[0] */
  close(pu[0]); /* Parent writes (blocking) to pu[1] */
#ifdef F_SETFL
  if (-1 == fcntl(pd[0], F_SETFL, MY_O_NONBLOCK))
   exit(1);
#else
  exit(4);
#endif
  signal(SIGALRM, blech);
  alarm(5);
  if ((ret = read(pd[0], buf, 1)) > 0) /* Nothing to read! */
   exit(2);
  sprintf(string, "%d\n", ret);
  ret = write(2, string, strlen(string));
  if (ret != strlen(string))
   exit(3);
  alarm(0);
#ifdef
 EAGAIN
  if (errno == EAGAIN) {
   printf("EAGAIN\n");
   goto ok;
  }
#endif
#ifdef EWOULDBLOCK
  if (errno == EWOULDBLOCK)
   printf("EWOULDBLOCK\n");
#endif
```

```
ok:
 ret = write(pu[1], buf, 1); /* Unblocks child, tell it to close our pipe */
 if (ret != 1)
  exit(3);
 sleep(2);    /* Give it time to close our pipe */
 alarm(5);
 ret = read(pd[0], buf, 1); /* Should read EOF */
 alarm(0);
 sprintf(string, "%d\n", ret);
 ret = write(4, string, strlen(string));
 if (ret != strlen(string))
  exit(3);
 exit(0);
 }

 close(pd[0]);   /* We write to pd[1] */
 close(pu[1]);   /* We read from pu[0] */
 ret = read(pu[0], buf, 1); /* Wait for parent to signal us we may continue */
 if (ret != 1)
  exit(3);
 close(pd[1]);   /* Pipe pd is now fully closed! */
 exit(0);    /* Bye bye, thank you for playing! */
}
EOCP
 set try
 if eval $compile_ok; then
?X: Use script to avoid the possible 'alarm call' message
  echo "$startsh" >mtry
  echo "$run ./try >try.out 2>try.ret 4>try.err
 || exit 4" >>mtry
  chmod +x mtry
  $run ./mtry >/dev/null 2>&1
  case $? in
  0) eagain=`$cat try.out`;;
  1) echo "Could not perform non-blocking setting!";;
  2) echo "I did a successful read() for something that was not there!";;
  3) echo "Hmm... non-blocking I/O does not seem to be working!";;
  4) echo "Could not find F_SETFL!";;
  *) echo "Something terribly wrong happened during testing.";;
  esac
  rd_nodata=`$cat try.ret`
  echo "A read() system call with no data present returns $rd_nodata."
  case "$rd_nodata" in
  0|-1) ;;
  *)
   echo "(That's peculiar, fixing that to be -1.)"
   rd_nodata=-1
   ;;
```

```
 esac
 case "$eagain" in
 ")
  echo "Forcing errno EAGAIN on read() with no data available."
  eagain=EAGAIN
  ;;
 *)
  echo "Your read() sets errno to $eagain when no data is available."
  ;;
 esac
 status=`$cat try.err`
 case "$status" in
 0) echo "And it correctly returns 0 to signal EOF.";;
 -1) echo "But it also returns -1 to signal EOF, so be careful!";;
 *)
echo "However, your read() returns '$status' on EOF??";;
 esac
 val="$define"
 if test "$status" = "$rd_nodata"; then
  echo "WARNING: you can't distinguish between EOF and no data!"
  val="$undef"
 fi
else
 echo "I can't compile the test program--assuming errno EAGAIN will do."
 eagain=EAGAIN
fi
;;
*) echo "Can't figure out how to test this--assuming errno EAGAIN will do."
 eagain=EAGAIN
 val="$define"
 ;;
esac
set d_eofnblk
eval $setvar
;;
*)
echo "Using $hint value $eagain."
echo "Your read() returns $rd_nodata when no data is present."
case "$d_eofnblk" in
"$define") echo "And you can see EOF because read() returns 0.";;
"$undef") echo "But you can't see EOF status from read() returned value.";;
*)
?X: Should not happen, but if it does, assume the worst!
 echo "(Assuming you can't see EOF status from read anyway.)"
 d_eofnblk=$undef
 ;;
esac
;;
```

```
esac
$rm_try head.c mtry
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/nblock_io.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: modetype.U,v 3.0.1.1 1994/10/29 16:25:07 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: modetype.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:25:07  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:modetype: Myread Typedef
?MAKE: -pick add $@ %<
?S:modetype:
?S: This variable defines modetype to be something like mode_t,
?S: int, unsigned short, or whatever type is used to declare file
?S: modes for system calls.
?S:.
?C:Mode_t:
?C: This symbol holds the type used to declare
 file modes
?C: for systems calls.  It is usually mode_t, but may be
?C: int or unsigned short.  It may be necessary to include <sys/types.h>
?C: to get any typedef'ed information.
?C:.
?H:#define Mode_t $modetype  /* file mode parameter for system calls */
?H:.
?LINT:set modetype
: see what type is used for mode_t
rp="What is the type used for file modes for system calls (e.g. fchmod())?"
set mode_t modetype int stdio.h sys/types.h
eval $typedef_ask
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/typedefs/modetype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2006-2007, H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_c99_variadic_macros: Compile Setvar cat rm_try run
?MAKE: -pick add $@ %<
?S:d_c99_variadic_macros:
?S: This variable conditionally defines the HAS_C99_VARIADIC_MACROS
?S: symbol, which indicates to the C program that C99 variadic macros
?S: are available.
?S:.
?C:HAS_C99_VARIADIC_MACROS:
?C: If defined, the compiler supports C99 variadic macros.
?C:.
?H:#$d_c99_variadic_macros HAS_C99_VARIADIC_MACROS /**/
?H:.
?F:!try
: see if the Compiler supports C99 variadic macros
echo "Checking for C99 variadic macros." >&4
$cat >try.c <<EOCP
#include
 <stdio.h>
#include <stdarg.h>

#define foo(buffer, format, ...) sprintf(buffer, format, __VA_ARGS__)

int main() {
 char buf[20];
 foo(buf, "%d %g %.*s", 123, 456.0, (int)3, "789fail");
 puts(buf);
 return 0;
}
EOCP
set try
if eval $compile && $run ./try 2>&1 >/dev/null; then
   case "`$run ./try`" in
 "123 456 789")
 echo "You have C99 variadic macros." >&4
 d_c99_variadic_macros="$define"
 ;;
 *)
```

```
 echo "You don't have functional C99 variadic macros." >&4
 d_c99_variadic_macros="$undef"
 ;;
   esac
else
   echo "I couldn't compile and run the test program, so I assume that you don't have functional C99 variadic
macros." >&4
   d_c99_variadic_macros="$undef"
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_c99_variadic.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_flexfnam.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_flexfnam.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_flexfnam: cat rm test Setvar
?MAKE: -pick add $@ %<
?S:d_flexfnam:
?S: This variable conditionally defines the FLEXFILENAMES symbol, which
?S: indicates that the system supports filenames longer than 14 characters.
?S:.
?C:FLEXFILENAMES:
?C: This symbol, if defined, indicates that the system supports filenames
?C: longer than 14
 characters.
?C:.
?H:#$d_flexfnam FLEXFILENAMES  /**/
?H:.
?T:first
?LINT:set d_flexfnam
: see if we can have long filenames
echo " "
?X:
```

```
?X: We have to test in both /tmp and . because of NFS (remote server may allow
?X: long filenames while the local filesystem cannot support them). If at least
?X: one of those file systems cannot support long filenames, then we assume the
?X: whole system can't.
?X:
first=123456789abcdef
$rm -f $first
if (echo hi >$first) 2>/dev/null; then
 if $test -f 123456789abcde; then
  echo 'You cannot have filenames longer than 14 characters.  Sigh.' >&4
  val="$undef"
 else
  echo 'You can have filenames longer than 14 characters.'>&4
  val="$define"
 fi
else
 $cat <<'EOM'
You can't have filenames longer than 14 chars.
You can't even think about them!
EOM
 val="$undef"
fi
set d_flexfnam
eval $setvar
$rm -rf 123456789abcde*
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_flexfnam.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: so.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:30:04  ram
?RCS: patch36: now tells user how he can suppress shared lib lookup (ADO)
?RCS: patch36: removed echo at the top, since it's now in the here-doc (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:07:02  ram
?RCS: patch30: created
```

```
?RCS:
?X:
?X: This unit computes the shared-object / shared-lib extension
?X:
?MAKE:so: test libpth Loc Myread Oldconfig cat
?MAKE: -pick add $@ %<
?S:so:
?S: This variable holds the extension used to identify
 shared libraries
?S: (also known as shared objects) on the system. Usually set to 'so'.
?S:.
?T: xxx
: compute shared library extension
case "$so" in
")
 if xxx=`./loc libc.sl X $libpth`; $test -f "$xxx"; then
  dflt='sl'
 else
  dflt='so'
 fi
 ;;
*) dflt="$so";;
esac
$cat <<EOM

On some systems, shared libraries may be available.  Answer 'none' if
you want to suppress searching of shared libraries for the remainder
of this configuration.

EOM
rp='What is the file extension used for shared libraries?'
. ./myread
so="$ans"

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
5.36.0/dist/U/so.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_pthrattrj.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_old_pthread_create_joinable old_pthread_create_joinable: \
 cat Compile rm_try Setvar usethreads i_pthread
```

```
?MAKE: -pick add $@ %<
?S:d_old_pthread_create_joinable:
?S: This variable conditionally defines pthread_create_joinable.
?S: undef if pthread.h defines PTHREAD_CREATE_JOINABLE.
?S:.
?S:old_pthread_create_joinable:
?S: This variable defines the constant to use for creating joinable
?S: (aka undetached) pthreads.  Unused if pthread.h defines
?S: PTHREAD_CREATE_JOINABLE.  If used, possible values are
?S: PTHREAD_CREATE_UNDETACHED and __UNDETACHED.
?S:.
?C:OLD_PTHREAD_CREATE_JOINABLE:
?C: This symbol, if defined, indicates how to create pthread
?C: in joinable (aka undetached)
 state.  NOTE: not defined
?C: if pthread.h already has defined PTHREAD_CREATE_JOINABLE
?C: (the new version of the constant).
?C: If defined, known values are PTHREAD_CREATE_UNDETACHED
?C: and __UNDETACHED.
?C:.
?H:#$d_old_pthread_create_joinable OLD_PTHREAD_CREATE_JOINABLE $old_pthread_create_joinable /**/
?H:.
: how to create joinable pthreads
if test "X$usethreads" = "X$define" -a "X$i_pthread" = "X$define"; then
 echo " "
 echo "Checking what constant to use for creating joinable pthreads..." >&4
 $cat >try.c <<'EOCP'
#include <pthread.h>
int main() {
   int detachstate = JOINABLE;
}
EOCP
 set try -DJOINABLE=PTHREAD_CREATE_JOINABLE
 if eval $compile; then
  echo "You seem to use PTHREAD_CREATE_JOINABLE." >&4
  val="$undef" # Yes, undef.
  set d_old_pthread_create_joinable
  eval $setvar
  val=""
  set old_pthread_create_joinable
  eval $setvar
 else
  set try -DJOINABLE=PTHREAD_CREATE_UNDETACHED
  if eval $compile; then
   echo "You seem to use PTHREAD_CREATE_UNDETACHED." >&4
   val="$define"
   set
```

```
 d_old_pthread_create_joinable
   eval $setvar
   val=PTHREAD_CREATE_UNDETACHED
   set old_pthread_create_joinable
   eval $setvar
  else
   set try -DJOINABLE=__UNDETACHED
   if eval $compile; then
    echo "You seem to use __UNDETACHED." >&4
    val="$define"
    set d_old_pthread_create_joinable
    eval $setvar
    val=__UNDETACHED
    set old_pthread_create_joinable
    eval $setvar
   else
    echo "Egads, nothing obvious found.  Guessing that you use 0." >&4
    val="$define"
    set d_old_pthread_create_joinable
    eval $setvar
    val=0
    set old_pthread_create_joinable
    eval $setvar
   fi
  fi
 fi
 $rm_try
else
   d_old_pthread_create_joinable="$undef"
   old_pthread_create_joinable=""
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_pthrattrj.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_static_inline.U,v $
?RCS:
?RCS: Copyright (c) 2010 Andrew Dougherty
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafayette.edu>
```

```
?RCS:
?MAKE:d_static_inline perl_static_inline: Compile Setvar gccversion \
 cat echo run hint rm rm_try
?MAKE: -pick add $@ %<
?S:d_static_inline:
?S: This variable conditionally defines the HAS_STATIC_INLINE symbol,
?S: which indicates that the C compiler supports C99-style static
?S: inline.  That is, the function can't be called from another
?S: translation unit.
?S:.
?S:perl_static_inline:
?S: This variable defines the PERL_STATIC_INLINE
 symbol to
?S: the best-guess incantation to use for static inline functions.
?S: Possibilities include
?S:  static inline       (c99)
?S:  static __inline__   (gcc -ansi)
?S:  static __inline     (MSVC)
?S:  static _inline      (older MSVC)
?S:  static              (c89 compilers)
?S:.
?C:HAS_STATIC_INLINE :
?C: This symbol, if defined, indicates that the C compiler supports
?C: C99-style static inline.  That is, the function can't be called
?C: from another translation unit.
?C:.
?C:PERL_STATIC_INLINE:
?C: This symbol gives the best-guess incantation to use for static
?C: inline functions.  If HAS_STATIC_INLINE is defined, this will
?C: give C99-style inline.  If HAS_STATIC_INLINE is not defined,
?C: this will give a plain 'static'.  It will always be defined
?C: to something that gives static linkage.
?C: Possibilities include
?C:  static inline       (c99)
?C:  static __inline__   (gcc -ansi)
?C:  static __inline     (MSVC)
?C:  static _inline      (older MSVC)
?C:  static
        (c89 compilers)
?C:.
?H:#$d_static_inline HAS_STATIC_INLINE    /**/
?H:#define PERL_STATIC_INLINE $perl_static_inline /**/
?H:.
?LINT:set d_static_inline
?T:inline xxx
?F:!try
: see what flavor, if any, of static inline is supported
echo " "
```

```
echo "Checking to see if your system supports static inline..."
?X: Build two programs.  The first uses static inline in file a.c and
?X: should work.  The second also includes b.c which tries to link against
?X: the static function in a.c.  This should fail.
?X:.
$cat > try.c <<'EOCP'
#include <stdlib.h>
extern int f_via_a(int x);
extern int f_via_b(int x);
int main(int argc, char **argv)
{
   int y;

   y = f_via_a(0);
#ifdef USE_B
   y = f_via_b(0);
#endif
   if (y == 42) {
       return EXIT_SUCCESS;
   }
   else {
       return EXIT_FAILURE;
   }
}
EOCP
$cat > a.c <<'EOCP'
static INLINE int f(int x) {
   int y;
   y = x + 42;
   return y;
}

int f_via_a(int x)
{
   return f(x);
}
EOCP
$cat > b.c <<'EOCP'
extern int f(int x);

int
 f_via_b(int x)
{
   return f(x);
}
EOCP

# Respect a hint (or previous) value for perl_static_inline, if there is one.
```

```
case "$perl_static_inline" in
") # Check the various possibilities, and break out on success.
 # For gcc, prefer __inline__, which will still permit
 # cflags.SH to add in -ansi.
 case "$gccversion" in
  ") xxx="inline __inline__ __inline _inline";;
  *)  xxx="__inline__ inline __inline _inline";;
 esac
 for inline in $xxx; do
  set try -DINLINE=$inline a.c
  if eval $compile && $run ./try; then
   # Now make sure there is no external linkage of static
   # functions
   set try -DINLINE=$inline -DUSE_B a.c b.c
   if eval $compile && $run ./try; then
    $echo "Your compiler supports static $inline, " >&4
    $echo "but it also creates an external definition," >&4
    $echo "so I won't use it." >&4
    val=$undef
   else
    $echo "Your compiler supports static $inline." >&4
    val=$define
    perl_static_inline="static $inline";
    break;
   fi
  else
   $echo
 "Your compiler does NOT support static $inline." >&4
   val="$undef"
  fi
 done
 ;;
*inline*) # Some variant of inline exists.
 echo "Keeping your $hint value of $perl_static_inline."
 val=$define
 ;;
static)  # No inline capabilities
 echo "Keeping your $hint value of $perl_static_inline."
 val=$undef
 ;;
*)  # Unrecognized previous value -- blindly trust the supplied
 # value and hope it makes sense.  Use old value for
 # d_static_inline, if there is one.
 echo "Keeping your $hint value of $perl_static_inline."
 case "$d_static_inline" in
  ") val=$define ;;
  *)  val=$d_static_inline ;;
 esac
```

```
 ;;
esac
# Fallback to plain 'static' if nothing worked.
case "$perl_static_inline" in
")
 perl_static_inline="static"
 val=$undef
 ;;
esac
set d_static_inline
eval $setvar
$rm -f a.[co] b.[co]
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_static_inline.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vaproto.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Orginal Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: vaproto.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:17:16  ram
?RCS: patch16: definition of _V now appears only when needed
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:59  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:vaproto: prototype i_stdarg Setvar
?MAKE: -pick add $@ %<
?S:vaproto:
?S: This variable conditionally defines CAN_VAPROTO on systems supporting
?S: prototype
 declaration of functions with a variable number of
?S: arguments. See also prototype.
?S:.
?C:CAN_VAPROTO ~ %<:
?C: This variable is defined on systems supporting prototype declaration
```

```
?C: of functions with a variable number of arguments.
?C:.
?C:_V:
?C: This macro is used to declare function parameters in prototypes for
?C: functions with a variable number of parameters. Use double parentheses.
?C: For example:
?C:
?C:  int printf _V((char *fmt, ...));
?C:
?C: Remember to use the plain simple _() macro when declaring a function
?C: with no variable number of arguments, since it might be possible to
?C: have a non-effect _V() macro and still get prototypes via _().
?C:.
?H:?%<:#$vaproto CAN_VAPROTO /**/
?H:?_V:#ifdef CAN_VAPROTO
?H:?_V:#define _V(args) args
?H:?_V:#else
?H:?_V:#define _V(args) ()
?H:?_V:#endif
?H:.
?W:%<:_V
?LINT:set vaproto
: see if prototypes support variable argument declarations
echo " "
case "$prototype$i_stdarg" in
$define$define)
 echo "It appears we'll
 be able to prototype varargs functions." >&4
 val="$define"
 ;;
*)
 echo "Too bad... We won't be using prototyped varargs functions..." >&4
 val="$undef"
 ;;
esac
set vaproto
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/vaproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_readdir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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```

```
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_readdir.U,v $
?RCS: Revision 3.0.1.1  1994/05/06  14:46:37  ram
?RCS: patch23: added support for seekdir, telldir and rewinddir (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X: Force checking for <dirent.h> inclusion
?X:INC: i_dirent
?MAKE:d_readdir d_seekdir d_telldir d_rewinddir: Inlibc
?MAKE: -pick add $@ %<
?S:d_readdir:
?S: This variable conditionally defines HAS_READDIR if readdir()
 is
?S: available to read directory entries.
?S:.
?C:HAS_READDIR (READDIR):
?C: This symbol, if defined, indicates that the readdir routine is
?C: available to read directory entries. You may have to include
?C: <dirent.h>. See I_DIRENT.
?C:.
?H:#$d_readdir HAS_READDIR  /**/
?H:.
?S:d_seekdir:
?S: This variable conditionally defines HAS_SEEKDIR if seekdir() is
?S: available.
?S:.
?C:HAS_SEEKDIR:
?C: This symbol, if defined, indicates that the seekdir routine is
?C: available. You may have to include <dirent.h>. See I_DIRENT.
?C:.
?H:#$d_seekdir HAS_SEEKDIR  /**/
?H:.
?S:d_telldir:
?S: This variable conditionally defines HAS_TELLDIR if telldir() is
?S: available.
?S:.
?C:HAS_TELLDIR:
?C: This symbol, if defined, indicates that the telldir routine is
?C: available. You may have to include <dirent.h>. See I_DIRENT.
?C:.
?H:#$d_telldir HAS_TELLDIR  /**/
?H:.
```

```
?S:d_rewinddir:
?S: This variable conditionally defines HAS_REWINDDIR if rewinddir() is
?S: available.
?S:.
?C:HAS_REWINDDIR:
?C: This
 symbol, if defined, indicates that the rewinddir routine is
?C: available. You may have to include <dirent.h>. See I_DIRENT.
?C:.
?H:#$d_rewinddir HAS_REWINDDIR  /**/
?H:.
?LINT:set d_readdir d_seekdir d_telldir d_rewinddir
: see if readdir and friends exist
set readdir d_readdir
eval $inlibc
@if d_seekdir || HAS_SEEKDIR
set seekdir d_seekdir
eval $inlibc
@end
@if d_telldir || HAS_TELLDIR
set telldir d_telldir
eval $inlibc
@end
@if d_rewinddir || HAS_REWINDDIR
set rewinddir d_rewinddir
eval $inlibc
@end
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_readdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: installprefix.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: installprefix.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
```

```
?RCS:
?RCS:
?MAKE:installprefix installprefixexp: Getfile Loc \
 Oldconfig afs cat package prefix
?MAKE: -pick add $@ %<
?S:installprefix:
?S: This variable holds the name of the directory below which
?S: "make install" will install the package.  For most users, this
?S: is the same
 as prefix.  However, it is useful for
?S: installing the software into a different (usually temporary)
?S: location after which it can be bundled up and moved somehow
?S: to the final location specified by prefix.
?S:.
?S:installprefixexp:
?S: This variable holds the full absolute path of installprefix
?S: with all ~-expansion done.
?S:.
: determine installation prefix for where package is to be installed.
if $afs; then
$cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
files will reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installprefix" in
 ") dflt=`echo $prefix | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installprefix";;
 esac
else
$cat <<EOM

In some special cases, particularly when building $package for distribution,
it is convenient to distinguish the directory in which files should be
installed from the directory ($prefix) in which they will
eventually
 reside.  For most users, these two directories are the same.

EOM
 case "$installprefix" in
 ") dflt=$prefix ;;
 *) dflt=$installprefix;;
 esac
fi
fn=d~
rp='What installation prefix should I use for installing files?'
```

```
. ./getfile
installprefix="$ans"
installprefixexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/installprefix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_mmap.U,v $
?RCS: Revision 3.0.1.1  1993/12/15  08:19:12  ram
?RCS: patch15: created
?RCS:
?MAKE:d_mmap: Inlibc
?MAKE: -pick add $@ %<
?S:d_mmap:
?S: This variable conditionally defines HAS_MMAP if mmap() is
?S: available to map a file into memory.
?S:.
?C:HAS_MMAP:
?C: This symbol, if defined, indicates that the mmap system call is
?C: available to map a file into memory.
?C:.
?H:#$d_mmap HAS_MMAP  /**/
?H:.
?LINT:set d_mmap
: see if mmap exists
set mmap d_mmap
eval $inlibc
```

Found in path(s):
*
/opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_mmap.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fd_set.U,v 3.0.1.3 1997/02/28 15:33:16 ram Exp $
?RCS:
```

```
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_fd_set.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:33:16  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20  06:57:23  ram
?RCS: patch30: extended scope for fd_set checks (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:06:27  ram
?RCS: patch16: comments for HAS_FD_* symbols were not consistent
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_fd_set d_fd_macros
 d_fds_bits: Compile cat rm_try Oldconfig \
 d_socket i_systime i_sysselct i_stdlib run
?MAKE: -pick add $@ %<
?S:d_fd_set:
?S: This variable contains the eventual value of the HAS_FD_SET symbol,
?S: which indicates if your C compiler knows about the fd_set typedef.
?S:.
?S:d_fd_macros:
?S: This variable contains the eventual value of the HAS_FD_MACROS symbol,
?S: which indicates if your C compiler knows about the macros which
?S: manipulate an fd_set.
?S:.
?S:d_fds_bits:
?S: This variable contains the eventual value of the HAS_FDS_BITS symbol,
?S: which indicates if your fd_set typedef contains the fds_bits member.
?S: If you have an fd_set typedef, but the dweebs who installed it did
?S: a half-fast job and neglected to provide the macros to manipulate
?S: an fd_set, HAS_FDS_BITS will let us know how to fix the gaffe.
?S:.
?C:HAS_FD_SET:
?C: This symbol, when defined, indicates presence of the fd_set typedef
?C: in <sys/types.h>
?C:.
?C:HAS_FD_MACROS:
?C: This symbol, when defined,
```

```
  indicates presence of the macros used to
?C: manipulate an fd_set.
?C:.
?C:HAS_FDS_BITS:
?C: This symbol, when defined, indicates presence of the fds_bits member in
?C: fd_set.  This knowledge is useful if fd_set is available but the macros
?C: aren't.
?C:.
?H:#$d_fd_set HAS_FD_SET /**/
?H:#$d_fd_macros HAS_FD_MACROS /**/
?H:#$d_fds_bits HAS_FDS_BITS /**/
?H:.
?F:!try
: check for fd_set items
$cat <<EOM

Checking to see how well your C compiler handles fd_set and friends ...
EOM
?X: The FD_SET macros can be in strange places.  On some SysV-based
?X: systems, they are in <sys/bsdtypes.h>, which is included (perhaps)
?X: by <sys/socket.h>.  We won't force people to include
?X: <sys/bsdtypes.h> because it might introduce other
?X: incompatibilities.
$cat >try.c <<EOCP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_systime I_SYS_TIME
#$i_sysselct I_SYS_SELECT
#$d_socket HAS_SOCKET
#include <sys/types.h>
#ifdef HAS_SOCKET
#include <sys/socket.h> /* Might include <sys/bsdtypes.h>
 */
#endif
#ifdef I_SYS_TIME
#include <sys/time.h>
#endif
#ifdef I_SYS_SELECT
#include <sys/select.h>
#endif
int main() {
 fd_set fds;

#ifdef TRYBITS
 if(fds.fds_bits);
#endif
```

```
#if defined(FD_SET) && defined(FD_CLR) && defined(FD_ISSET) && defined(FD_ZERO)
 exit(0);
#else
 exit(1);
#endif
}
EOCP
set try -DTRYBITS
if eval $compile; then
 d_fds_bits="$define"
 d_fd_set="$define"
 echo "Well, your system knows about the normal fd_set typedef..." >&4
 if $run ./try; then
  echo "and you have the normal fd_set macros (just as I'd expect)." >&4
  d_fd_macros="$define"
 else
  $cat >&4 <<'EOM'
but not the normal fd_set macros!  Gaaack!  I'll have to cover for you.
EOM
  d_fd_macros="$undef"
 fi
else
 $cat <<'EOM'
Hmm, your compiler has some difficulty with fd_set.  Checking further...
EOM
 set try
 if eval $compile; then
  d_fds_bits="$undef"
  d_fd_set="$define"
  echo "Well, your system has some sort of fd_set available..." >&4
  if $run ./try; then
   echo "and you have the normal
 fd_set macros." >&4
   d_fd_macros="$define"
  else
   $cat <<'EOM'
but not the normal fd_set macros!  Gross!  More work for me...
EOM
   d_fd_macros="$undef"
  fi
 else
 echo "Well, you got zip.  That's OK, I can roll my own fd_set stuff." >&4
  d_fd_set="$undef"
  d_fds_bits="$undef"
  d_fd_macros="$undef"
 fi
fi
```

```
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_fd_set.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: cf_name.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: cf_name.U,v $
?RCS: Revision 3.0.1.2  1994/05/06  14:29:36  ram
?RCS: patch23: fixed user name computation from /etc/passwd in bsd systems
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:05:11  ram
?RCS: patch16: created
?RCS:
?RCS:
?MAKE:+cf_name: cf_by passcat Filexp nametype cat test
?MAKE: -pick add $@ %<
?S:cf_name:
?S: Full name of the person who ran the Configure script and
 answered the
?S: questions. This can be used by units that require the user's full name.
?S: This variable is for internal use only.
?S:.
?T:xxx fn NAME
: figure out their full name
case "$NAME" in
") case "$nametype" in
 other)
  fn=`./filexp ~/.fullname`
  xxx=usg
  $test -f $fn && xxx=other
  ;;
 *)
  xxx="$nametype"
  ;;
 esac
```

```
 case "$xxx" in
 bsd)
  cf_name=`$passcat | grep "^$cf_by:" | \
   sed -e 's/^[^:]*:[^:]*:[^:]*:[^:]*:\([^:]*\):.*/\1/' \
   -e 's/,.*//'`
  ;;
   usg)
  cf_name=`$passcat | grep "^$cf_by:" | \
   sed -e 's/^[^:]*:[^:]*:[^:]*:[^:]*:\([^:]*\):.*/\1/' \
   -e 's/[^-]*-\(.*\)(.*)/\1/'`
  ;;
 *)
  cf_name=`$cat $fn`
  ;;
 esac
 ;;
*)
 cf_name="$NAME"
 ;;
esac
?X:
?X: In the original unit, Graham asked for the user name, in case the above
?X: code was unable to figure it out correctly. Since now cf_name has been
?X: made an internal variable only (i.e. it is not saved in config.sh), letting
?X: the user override the computed default each time would be a pain.
?X:
 Therefore, I have decided to trust the above code to get it right, and for
?X: those rare cases where it will fail, too bad :-) --RAM.
?X:
echo " "
echo "Pleased to meet you, $cf_name."
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/cf_name.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getgrgid_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getgrgid_r getgrgid_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_grp extern_C
```

```
?MAKE: -pick add $@ %<
?S:d_getgrgid_r:
?S: This variable conditionally defines the HAS_GETGRGID_R symbol,
?S: which indicates to the C program that the getgrgid_r()
?S: routine is available.
?S:.
?S:getgrgid_r_proto:
?S: This variable encodes the prototype of getgrgid_r.
?S: It is zero if d_getgrgid_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getgrgid_r
?S: is defined.
?S:.
?C:HAS_GETGRGID_R:
?C: This symbol, if defined, indicates that the getgrgid_r routine
?C: is available to
 getgrgid re-entrantly.
?C:.
?C:GETGRGID_R_PROTO:
?C: This symbol encodes the prototype of getgrgid_r.
?C: It is zero if d_getgrgid_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getgrgid_r
?C: is defined.
?C:.
?H:#$d_getgrgid_r HAS_GETGRGID_R /**/
?H:#define GETGRGID_R_PROTO $getgrgid_r_proto /**/
?H:.
?T:try hdrs d_getgrgid_r_proto
: see if getgrgid_r exists
set getgrgid_r d_getgrgid_r
eval $inlibc
case "$d_getgrgid_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_grp grp.h"
 case "$d_getgrgid_r_proto:$usethreads" in
 ":define") d_getgrgid_r_proto=define
  set d_getgrgid_r_proto getgrgid_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getgrgid_r_proto" in
 define)
 case "$getgrgid_r_proto" in
 "|0) try='int getgrgid_r(gid_t, struct group*, char*, size_t, struct group**);'
 ./protochk "$extern_C $try" $hdrs && getgrgid_r_proto=I_TSBWR ;;
 esac
 case "$getgrgid_r_proto" in
 "|0) try='int getgrgid_r(gid_t, struct group*, char*, int, struct
```

```
 group**);'
 ./protochk "$extern_C $try" $hdrs && getgrgid_r_proto=I_TSBIR ;;
 esac
 case "$getgrgid_r_proto" in
 "|0) try='int getgrgid_r(gid_t, struct group*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getgrgid_r_proto=I_TSBI ;;
 esac
 case "$getgrgid_r_proto" in
 "|0) try='struct group* getgrgid_r(gid_t, struct group*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getgrgid_r_proto=S_TSBI ;;
 esac
 case "$getgrgid_r_proto" in
 "|0) d_getgrgid_r=undef
  getgrgid_r_proto=0
  echo "Disabling getgrgid_r, cannot determine prototype." >&4 ;;
 * ) case "$getgrgid_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getgrgid_r_proto="REENTRANT_PROTO_$getgrgid_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getgrgid_r has no prototype, not using it." >&4 ;;
  esac
  d_getgrgid_r=undef
  getgrgid_r_proto=0
  ;;
 esac
 ;;
*) getgrgid_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getgrgid_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Inlibc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: Inlibc.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  15:55:08  ram
?RCS: patch36: call ./whoa explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit checks for the definition of a given function.
?X:
?X: To use it, say:
?X: set function d_func
?X: eval $inlibc
?X:
?MAKE:Inlibc: Csym Whoa Oldconfig
?MAKE: -pick add $@ %<
?LINT:define inlibc
?V:inlibc
?S:inlibc:
?S: This
 shell variable is used internally by Configure to check
?S: wether a given function is defined or not. A typical use is:
?S:  set function d_func
?S:  eval $inlibc
?S: That will print a message, saying wether function was found or
?S: not and set d_func accordingly.
?S:.
?T:was tx sym tres td tu var
: define an is-in-libc? function
inlibc='echo " "; td=$define; tu=$undef;
sym=$1; var=$2; eval "was=\$$2";
tx=yes;
case "$reuseval$was" in
true) ;;
true*) tx=no;;
esac;
case "$tx" in
yes)
 set $sym tres -f;
 eval $csym;
 case "$tres" in
 true)
  echo "$sym() found." >&4;
  case "$was" in $undef) . ./whoa; esac; eval "$var=\$td";;
 *)
  echo "$sym() NOT found." >&4;
  case "$was" in $define) . ./whoa; esac; eval "$var=\$tu";;
```

```
 esac;;
*)
 case "$was" in
 $define) echo "$sym() found." >&4;;
 *) echo "$sym() NOT found." >&4;;
 esac;;
esac'
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Inlibc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getlogin_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getlogin_r getlogin_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_unistd extern_C
?MAKE: -pick add $@ %<
?S:d_getlogin_r:
?S: This variable conditionally defines the HAS_GETLOGIN_R symbol,
?S: which indicates to the C program that the getlogin_r()
?S: routine is available.
?S:.
?S:getlogin_r_proto:
?S: This variable encodes the prototype of getlogin_r.
?S: It is zero if d_getlogin_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getlogin_r
?S: is defined.
?S:.
?C:HAS_GETLOGIN_R:
?C: This symbol, if defined, indicates that the getlogin_r routine
?C: is available
 to getlogin re-entrantly.
?C:.
?C:GETLOGIN_R_PROTO:
?C: This symbol encodes the prototype of getlogin_r.
?C: It is zero if d_getlogin_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getlogin_r
?C: is defined.
?C:.
?H:#$d_getlogin_r HAS_GETLOGIN_R /**/
?H:#define GETLOGIN_R_PROTO $getlogin_r_proto /**/
```

```
?H:.
?T:try hdrs d_getlogin_r_proto
: see if getlogin_r exists
set getlogin_r d_getlogin_r
eval $inlibc
case "$d_getlogin_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_unistd unistd.h"
 case "$d_getlogin_r_proto:$usethreads" in
 ":define") d_getlogin_r_proto=define
  set d_getlogin_r_proto getlogin_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getlogin_r_proto" in
 define)
 case "$getlogin_r_proto" in
 "|0) try='int getlogin_r(char*, size_t);'
 ./protochk "$extern_C $try" $hdrs && getlogin_r_proto=I_BW ;;
 esac
 case "$getlogin_r_proto" in
 "|0) try='int getlogin_r(char*, int);'
 ./protochk "$extern_C $try" $hdrs && getlogin_r_proto=I_BI
 ;;
 esac
 case "$getlogin_r_proto" in
 "|0) try='char* getlogin_r(char*, size_t);'
 ./protochk "$extern_C $try" $hdrs && getlogin_r_proto=B_BW ;;
 esac
 case "$getlogin_r_proto" in
 "|0) try='char* getlogin_r(char*, int);'
 ./protochk "$extern_C $try" $hdrs && getlogin_r_proto=B_BI ;;
 esac
 case "$getlogin_r_proto" in
 "|0) d_getlogin_r=undef
  getlogin_r_proto=0
  echo "Disabling getlogin_r, cannot determine prototype." >&4 ;;
 * ) case "$getlogin_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getlogin_r_proto="REENTRANT_PROTO_$getlogin_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getlogin_r has no prototype, not using it." >&4 ;;
  esac
  d_getlogin_r=undef
```

```
  getlogin_r_proto=0
  ;;
 esac
 ;;
*) getlogin_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getlogin_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_db.U,v 3.0.1.3 1995/07/25 14:10:22 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_db.U,v $
?RCS: Revision 3.0.1.3  1995/07/25  14:10:22  ram
?RCS: patch56: conditionally use const in test programs (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1995/05/12  12:14:42  ram
?RCS: patch54: extended for more intimate DB probing (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:21:50  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:i_db db_hashtype db_prefixtype \
 db_version_major
 db_version_minor db_version_patch : \
 Inhdr +cc +ccflags rm_try compiler_warning cat \
 Compile libs sed run i_stdlib
?MAKE: -pick add $@ %<
?S:i_db:
?S: This variable conditionally defines the I_DB symbol, and indicates
?S: whether a C program may include Berkeley's DB include file <db.h>.
?S:.
?S:db_hashtype:
?S: This variable contains the type of the hash structure element
?S: in the <db.h> header file.  In older versions of DB, it was
```

```
?S: int, while in newer ones it is u_int32_t.
?S:.
?S:db_prefixtype:
?S: This variable contains the type of the prefix structure element
?S: in the <db.h> header file.  In older versions of DB, it was
?S: int, while in newer ones it is size_t.
?S:.
?S:db_version_major:
?S: This variable contains the major version number of
?S: Berkeley DB found in the <db.h> header file.
?S:.
?S:db_version_minor:
?S: This variable contains the minor version number of
?S: Berkeley DB found in the <db.h> header file.
?S: For DB version 1 this is always 0.
?S:.
?S:db_version_patch:
?S: This
 variable contains the patch version number of
?S: Berkeley DB found in the <db.h> header file.
?S: For DB version 1 this is always 0.
?S:.
?C:I_DB:
?C: This symbol, if defined, indicates to the C program that it should
?C: include Berkeley's DB include file <db.h>.
?C:.
?C:DB_Prefix_t:
?C: This symbol contains the type of the prefix structure element
?C: in the <db.h> header file.  In older versions of DB, it was
?C: int, while in newer ones it is u_int32_t.
?C:.
?C:DB_Hash_t:
?C: This symbol contains the type of the prefix structure element
?C: in the <db.h> header file.  In older versions of DB, it was
?C: int, while in newer ones it is size_t.
?C:.
?C:DB_VERSION_MAJOR_CFG:
?C: This symbol, if defined, defines the major version number of
?C: Berkeley DB found in the <db.h> header when Perl was configured.
?C:.
?C:DB_VERSION_MINOR_CFG:
?C: This symbol, if defined, defines the minor version number of
?C: Berkeley DB found in the <db.h> header when Perl was configured.
?C: For
 DB version 1 this is always 0.
?C:.
?C:DB_VERSION_PATCH_CFG:
?C: This symbol, if defined, defines the patch version number of
```

```
?C: Berkeley DB found in the <db.h> header when Perl was configured.
?C: For DB version 1 this is always 0.
?C:.
?H:#$i_db I_DB  /**/
?H:#define DB_Hash_t $db_hashtype  /**/
?H:#define DB_Prefix_t $db_prefixtype  /**/
?H:#define DB_VERSION_MAJOR_CFG $db_version_major /**/
?H:#define DB_VERSION_MINOR_CFG $db_version_minor /**/
?H:#define DB_VERSION_PATCH_CFG $db_version_patch /**/
?H:.
?F:!try
?LINT:change libs
: see if this is a db.h system
set db.h i_db
eval $inhdr

case "$i_db" in
$define)
 : Check db version.
 echo " "
 echo "Checking Berkeley DB version ..." >&4
 $cat >try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <db.h>
int main(int argc, char *argv[])
{
#ifdef DB_VERSION_MAJOR /* DB version >= 2 */
   int Major, Minor, Patch ;
   unsigned long Version ;
   (void)db_version(&Major,
 &Minor, &Patch) ;
   if (argc == 2) {
       printf("%d %d %d %d %d %d\n",
             DB_VERSION_MAJOR, DB_VERSION_MINOR, DB_VERSION_PATCH,
             Major, Minor, Patch);
       exit(0);
   }
   printf("You have Berkeley DB Version 2 or greater.\n");

   printf("db.h is from Berkeley DB Version %d.%d.%d\n",
  DB_VERSION_MAJOR, DB_VERSION_MINOR, DB_VERSION_PATCH);
   printf("libdb is from Berkeley DB Version %d.%d.%d\n",
  Major, Minor, Patch) ;
```

```
  /* check that db.h & libdb are compatible */
  if (DB_VERSION_MAJOR != Major || DB_VERSION_MINOR != Minor || DB_VERSION_PATCH != Patch) {
 printf("db.h and libdb are incompatible.\n") ;
      exit(3);
  }

  printf("db.h and libdb are compatible.\n") ;

  Version = DB_VERSION_MAJOR * 1000000 + DB_VERSION_MINOR * 1000
 + DB_VERSION_PATCH ;

  /* needs to be >= 2.3.4 */
  if (Version < 2003004) {
  /* if (DB_VERSION_MAJOR == 2 && DB_VERSION_MINOR == 0 && DB_VERSION_PATCH < 5) { */
 printf("Perl
 needs Berkeley DB 2.3.4 or greater.\n") ;
      exit(2);
  }

  exit(0);
#else
#if defined(_DB_H_) && defined(BTREEMAGIC) && defined(HASHMAGIC)
  if (argc == 2) {
      printf("1 0 0\n");
      exit(0);
  }
  printf("You have Berkeley DB Version 1.\n");
  exit(0); /* DB version < 2: the coast is clear. */
#else
  exit(1); /* <db.h> not Berkeley DB? */
#endif
#endif
}
EOCP
 set try
 if eval $compile_ok && $run ./try; then
  echo 'Looks OK.' >&4
  set `$run ./try 1`
  db_version_major=$1
  db_version_minor=$2
  db_version_patch=$3
 else
  echo "I can't use Berkeley DB with your <db.h>.  I'll disable Berkeley DB." >&4
  i_db=$undef
  case " $libs " in
  *"-ldb "*)
   : Remove db from list of libraries to use
```

```
   echo "Removing unusable -ldb from library list" >&4
   set `echo X $libs | $sed -e 's/-ldb / /' -e 's/-ldb$//'`
   shift
   libs="$*"
   echo "libs = $libs" >&4
   ;;
  esac
 fi
 $rm_try
 ;;
esac

@if DB_Hash_t
case "$i_db" in
define)
 : Check the return
 type needed for hash
 echo " "
 echo "Checking return type needed for hash for Berkeley DB ..." >&4
 $cat >try.c <<EOCP
#include <sys/types.h>
#include <db.h>

#ifndef DB_VERSION_MAJOR
u_int32_t hash_cb (const void* ptr, size_t size)
{
 return 0;
}
HASHINFO info;
int main()
{
 info.hash = hash_cb;
}
#endif
EOCP
 if $cc $ccflags -c try.c >try.out 2>&1 ; then
  if $compiler_warning try.out >>/dev/null 2>&1 ; then
   db_hashtype='int'
  else
   db_hashtype='u_int32_t'
  fi
 else
  : XXX Maybe we should just give up here.
  db_hashtype=u_int32_t
  $cat try.out >&4
  echo "Help:  I can't seem to compile the db test program." >&4
  echo "Something's wrong, but I'll assume you use $db_hashtype." >&4
 fi
```

```
 $rm_try
 echo "Your version of Berkeley DB uses $db_hashtype for hash."
 ;;
*) db_hashtype=u_int32_t
 ;;
esac
@end
@if DB_Prefix_t
case "$i_db" in
define)
 : Check the return type needed for prefix
 echo " "
 echo "Checking return type needed for prefix for Berkeley DB ..." >&4
 cat >try.c <<EOCP
#include
 <sys/types.h>
#include <db.h>

#ifndef DB_VERSION_MAJOR
size_t prefix_cb (const DBT *key1, const DBT *key2)
{
 return 0;
}
BTREEINFO info;
int main()
{
 info.prefix = prefix_cb;
}
#endif
EOCP
 if $cc $ccflags -c try.c  >try.out 2>&1 ; then
  if $compiler_warning try.out >>/dev/null 2>&1 ; then
   db_prefixtype='int'
  else
   db_prefixtype='size_t'
  fi
 else
  db_prefixtype='size_t'
  : XXX Maybe we should just give up here.
  $cat try.out >&4
  echo "Help:  I can't seem to compile the db test program." >&4
  echo "Something's wrong, but I'll assume you use $db_prefixtype." >&4
 fi
 $rm_try
 echo "Your version of Berkeley DB uses $db_prefixtype for prefix."
 ;;
*) db_prefixtype='size_t'
 ;;
```

```
esac
@end
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_db.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: filexp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: filexp.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:filexp: privlib
?MAKE: -pick add $@ %<
?S:filexp:
?S: This symbol contains the full pathname of the filexp script, in case we
?S: are saving the script for posterity.
?S:.
: must not allow self reference
case "$privlib" in
 /*)
 filexp=$privlib/filexp
 ;;
 *)
 filexp=`pwd`/filexp
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/filexp_path.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS:
?MAKE:i_fenv: Inhdr
?MAKE: -pick add $@ %<
```

```
?S:i_fenv:
?S: This variable conditionally defines the I_FENV symbol, which
?S: indicates to the C program that <fenv.h> exists and should
?S: be included.
?S:.
?C:I_FENV:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <fenv.h> to get the floating point environment definitions.
?C:.
?H:#$i_fenv I_FENV  /**/
?H:.
?LINT:set i_fenv
: see if this is a fenv.h system
set fenv.h i_fenv
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_fenv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setpent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_setpent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setpent: Inlibc
?MAKE: -pick add $@ %<
?S:d_setpent:
?S: This variable conditionally defines HAS_SETPROTOENT if setprotoent() is
?S: available.
?S:.
?C:HAS_SETPROTOENT:
?C: This symbol, if defined, indicates that the setprotoent() routine is
?C: available.
?C:.
?H:#$d_setpent HAS_SETPROTOENT  /**/
?H:.
?LINT:set d_setpent
```

```
: see if setprotoent
 exists
set setprotoent d_setpent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_setpent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: h_sysfile.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: h_sysfile.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:h_sysfile: Nothing
?MAKE: -pick add $@ %<
?S:h_sysfile:
?S: This is variable gets set in various places to tell i_sys_file that
?S: <sys/file.h> should be included.
?S:.
: Initialize h_sysfile
h_sysfile=false
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/h_sysfile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_seteuid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: d_seteuid.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_seteuid: Inlibc
?MAKE: -pick add $@ %<
?S:d_seteuid:
?S: This variable conditionally defines the HAS_SETEUID symbol, which
?S: indicates to the C program that the seteuid() routine is available
?S: to change the effective uid of the current program.
?S:.
?C:HAS_SETEUID (SETEUID):
?C: This symbol, if defined, indicates that the seteuid
 routine is available
?C: to change the effective uid of the current program.
?C:.
?H:#$d_seteuid HAS_SETEUID  /**/
?H:.
?LINT:set d_seteuid
: see if seteuid exists
set seteuid d_seteuid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_seteuid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_locale.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_locale.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:48:23  ram
?RCS: patch61: created
?RCS:
?MAKE:i_locale: Inhdr
?MAKE: -pick add $@ %<
?S:i_locale:
?S: This variable conditionally defines the I_LOCALE symbol,
?S: and indicates whether a C program should include <locale.h>.
```

```
?S:.
?C:I_LOCALE:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <locale.h>.
?C:.
?H:#$i_locale I_LOCALE  /**/
?H:.
?LINT:set
 i_locale
: see if locale.h is available
set locale.h i_locale
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_locale.U
No license file was found, but licenses were detected in source scan.

```
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:uidsign: Myread Typedef uidtype Compile run
?MAKE: -pick add $@ %<
?S:uidsign:
?S: This variable contains the signedness of a uidtype.
?S: 1 for unsigned, -1 for signed.
?S:.
?C:Uid_t_sign:
?C: This symbol holds the signedness of a Uid_t.
?C: 1 for unsigned, -1 for signed.
?C:.
?H:#define Uid_t_sign $uidsign  /* UID sign */
?H:.
?T:yyy zzz
?F:!try
: Check if UID is signed
echo " "
case "$uidtype" in
*_t) zzz="$uidtype" ;;
*)   zzz="uid"  ;;
esac
echo "Checking the sign of $zzz..." >&4
```

```
cat > try.c <<EOCP
#include <sys/types.h>
#include
 <stdio.h>
int main() {
 $uidtype foo = -1;
 if (foo < 0)
  printf("-1\n");
 else
  printf("1\n");
}
EOCP
set try
if eval $compile; then
 yyy=`$run ./try`
 case "$yyy" in
 ") uidsign=1
  echo "(I can't execute the test program--guessing unsigned.)" >&4
  ;;
 *) uidsign=$yyy
  case "$uidsign" in
   1) echo "Your $zzz is unsigned." ;;
  -1) echo "Your $zzz is signed."   ;;
  esac
  ;;
 esac
else
 uidsign=1
 echo "(I can't compile the test program--guessing unsigned.)" >&4
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/uidsign.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isnan: Inlibc cat Compile rm_try Setvar
?MAKE: -pick add $@ %<
?S:d_isnan:
?S: This variable conditionally defines the HAS_ISNAN symbol, which
?S: indicates to the C program that the isnan() routine is available.
```

```
?S:.
?C:HAS_ISNAN:
?C: This symbol, if defined, indicates that the isnan routine is
?C: available to check whether a double is a NaN.
?C:.
?H:#$d_isnan HAS_ISNAN  /**/
?H:.
?LINT:set d_isnan
: check for isnan
echo "Checking to see if you have isnan..." >&4
$cat >try.c <<EOCP
#include <math.h>
int main() { return isnan(0.0); }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have isnan."
else
 val="$undef"
 echo "You do not have isnan."
fi
$rm_try
set d_isnan
eval $setvar
```

Found
 in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_isnan.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: mkdep.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: mkdep.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  16:13:07  ram
?RCS: patch61: replaced .o with $_o all over the place
?RCS:
?RCS: Revision 3.0.1.3  1994/10/29  16:25:02  ram
?RCS: patch36: added ?F: line for metalint file checking
```

```
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:15:12  ram
?RCS: patch16: cppflags is now an optional dependency
?RCS:
?RCS: Revision 3.0.1.1  1993/12/15  08:22:39  ram
?RCS: patch15: force zero exit status in all mkdep scripts
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:09:16  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit generates the script 'mkdep' in the top-level directory.
?X: It is up to the makefile to use it for automatic dependencies
?X: generation (usage: 'mkdep [cppflags] -- *.c').
?X:
?MAKE:mkdep: spitshell startsh cpp +cppflags grep contains rm sed sort uniq \
 Getfile Oldconfig eunicefix cat +cc cppminus test pkgsrc _o
?MAKE: -pick add $@ %<
?S:mkdep:
?S: This variable holds the name of a command to generate makefile
?S: dependencies on the standard output. It is the pathname of the
?S: generated mkdep script.
?S:.
?F:mkdep
?T:IFS arg flags takeflags srcfile toplev filebase inc dir files file dep c
: find out how to generate dependencies
echo " "
echo "Checking how to generate makefile dependencies on your machine..." >&4
?X: We are in the UU directory
toplev=`cd ..;pwd`
$cat >dep.c <<'EOCP'
#include "dep.h"
EOCP
?X: Empty dep.h causes RIOS to barf
$cat >dep.h <<'EOCP'

EOCP
takeflags='flags=""
case
 "$@" in
*--*)
 for arg
 do
  shift
  case "$arg" in
  --) break;;
  *) flags="$flags $arg";;
```

```
  esac
 done;;
esac'
case "$mkdep" in
")
 ;;
*)
 if test -f "$mkdep" &&
  $mkdep dep.c >dep.out 2>/dev/null &&
  $contains "dep$_o:.*dep\.h" dep.out >/dev/null 2>&1
 then
  echo "$mkdep works."
?X: If they copied a config.sh from some other place, they'll have a working
?X: mkdep script probably, but not located at the top of the sources.  And
?X: the Makefiles generated by jmake expect an mkdep script in the top dir.
  case "$mkdep" in
  "$pkgsrc/mkdep");;
  *) echo "(copying it to $pkgsrc)"
   cp $mkdep $pkgsrc/mkdep 2>/dev/null
      if $pkgsrc/mkdep dep.c >dep.out 2>/dev/null &&
    $contains "dep$_o:.*dep\.h" dep.out >/dev/null 2>&1; then
    mkdep=$pkgsrc/mkdep
   else
    echo "Hmm... The copy failed or something... Guessing again..."
    mkdep=
   fi
   ;;
  esac
 else
  mkdep=
 fi
esac

case "$mkdep" in
")
?X: have to figure something out: Try cpp
?X: have
 to pass source names one by one to cpp...
 $spitshell > ../mkdep <<EOM
$startsh
$takeflags
for srcfile
do
 $cpp -M $cppflags \$flags \$srcfile 2>/dev/null
done
exit 0
EOM
 mkdep=$toplev/mkdep
```

```
 chmod +x $mkdep
 $eunicefix $mkdep
 if $mkdep dep.c >dep.out 2>/dev/null &&
  $contains "dep$_o:.*dep\.h" dep.out >/dev/null 2>&1
 then
  echo "Looks like we can use $cpp -M."
 else
  mkdep=
 fi
 ;;
esac

case "$mkdep" in
")
?X: have to figure something out: on NeXT, use cc -MM
?X: have to pass source names one by one to cc...
 $spitshell > ../mkdep <<EOM
$startsh
$takeflags
for srcfile
do
 $cc -MM $cppflags \$flags \$srcfile 2>/dev/null
done
exit 0
EOM
 mkdep=$toplev/mkdep
 chmod +x $mkdep
 $eunicefix $mkdep
 if $mkdep dep.c >dep.out 2>/dev/null &&
  $contains "dep$_o: dep.h" dep.out >/dev/null 2>&1
 then
  echo "Looks like we can use $cc -MM."
 else
  mkdep=
 fi
 ;;
esac

case "$mkdep" in
")
?X: still no luck -- try something fancier.
 $spitshell >../mkdep <<EOS
$startsh
$takeflags
for srcfile
do
 case
```

```
 "\$srcfile" in
 *.c) c='.c';;
 *.y) c='.y';;
 *.l) c='.l';;
 esac
 filebase=\`basename \$srcfile \$c\`
 <\$srcfile $cpp $cppminus $cppflags \$flags 2>/dev/null | \\
 $sed -e '/^# *[0-9]/!d' \\
  -e 's/^.*"\(.*\)".*\$/"\$filebase'$_o: \1/' \\
  -e 's|: \./|: |' \\
  -e 's|: *$|: "\$srcfile"|' | \\
 $grep -v '^#' | $sort | $uniq
done
exit 0
EOS
 mkdep=$toplev/mkdep
 chmod +x $mkdep
 $eunicefix $mkdep
 if $mkdep dep.c >dep.out 2>/dev/null &&
  $contains "dep$_o:.*dep\.h" dep.out >/dev/null 2>&1
 then
  echo "A shell script using $cpp does the trick."
 else
  echo "$cpp doesn't seem to be any use at all."
  $spitshell >../mkdep <<EOS
$startsh
$takeflags
files="\$@"
set X \$flags
shift
inc='.'
while test \$# -gt 0
do
 case "\$1" in
 -I)
  shift
  inc="\$inc:\$1"
  ;;
 -I*)
  dir=\`echo \$1 | sed -e 's/^-I//'\`
  inc="\$inc:\$dir"
  ;;
 esac
 shift
done
set X \$files
shift
trap "$rm -f /tmp/mkdep\$\$; exit 1" 1 2 3 15
```

```
for srcfile
do
 case "\$srcfile" in
 *.c) c='.c';;
 *.y) c='.y';;
 *.l)
 c='.l';;
 esac
 filebase=\`basename \$srcfile \$c\`
 echo \$filebase$_o: \$srcfile
 $grep '^#[  ]*include' \$srcfile /dev/null | \
 $sed -n -e 's/#[   ]*include[  ]*//' \\
  -e '/<\(.*\)>/ d' \\
  -e 's/:[^"]*"\([^"]*\)".*/: \1/' \\
  -e "s/\\.c:/$_o:/p" > /tmp/mkdep\$\$
?X: Deal with directories specified via -I requests to locate files
 IFS=': '
 while read file dep; do
  for dir in \$inc; do
   if $test -f "\$dir/\$dep"; then
    dep="\$dir/\$dep"
    break
   fi
  done
  echo "\$file: \$dep" | $sed -e 's,: \./,: ,'
 done </tmp/mkdep\$\$
 IFS=' '
 $rm -f /tmp/mkdep\$\$
done
exit 0
EOS
  mkdep=$toplev/mkdep
  chmod +x $mkdep
  $eunicefix $mkdep
  if $mkdep dep.c >dep.out 2>/dev/null &&
   $contains "dep$_o:.*dep\.h" dep.out >/dev/null 2>&1
  then
   cat << EOM

I can use a script with grep instead, but it will make some incorrect
dependencies, since it doesn't understand about conditional compilation.
Moreover, some dependencies may be missing, because scanning won't be
a
 recursive process.
If you have a program which generates makefile dependencies, you may want
to use it.  If not, you can use the script and edit the Makefile by hand
if you need to.
EOM
```

```
  else
   mkdep=
   cat << EOM

I can't seem to generate makefile dependencies at all!  Perhaps you have a
program that does?  If you don't, you might look at the mkdep script to
see if you can create one which works.
EOM
  fi
 fi
esac
echo " "
dflt="$mkdep"
fn=f~/
rp="Name of program to make makefile dependencies?"
. ./getfile
mkdep="$ans"
$rm -f dep.c dep.h dep$_o dep.out
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/mkdep.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: myhostname.U,v 3.0.1.3 1997/02/28 16:15:55 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: myhostname.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:15:55  ram
?RCS: patch61: improved hostname lookup by using ypmatch when NIS is used
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:25:43  ram
?RCS: patch36: call ./xenix explicitly instead of relying on PATH
?RCS: patch36: now uses new Tr unit to convert to/from lowercase
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:06:20  ram
?RCS: patch30: now a little more clever for domain name guessing
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:09:18  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?MAKE:myhostname phostname mydomain: contains sed test Myread Oldconfig \
 Guess Loc awk echo sort uniq +usrinc rm hostcat Tr
?MAKE: -pick add $@ %<
?S:myhostname (hostname):
?S: This variable contains the eventual value of the MYHOSTNAME symbol,
?S: which is the name of the host the program is going to run on.
?S: The domain is not kept with hostname, but must be gotten from mydomain.
?S: The dot comes with mydomain, and need not be supplied by the program.
?S:.
?S:mydomain:
?S: This variable contains the eventual value of the MYDOMAIN symbol,
?S: which is the domain of the host the program is going to run on.
?S: The domain must be appended to myhostname to form a complete host name.
?S: The dot comes with mydomain, and need not be supplied by the program.
?S:.
?S:phostname:
?S: This variable contains the eventual value of the PHOSTNAME symbol,
?S: which is a command that can be fed to popen()
 to get the host name.
?S: The program should probably not presume that the domain is or isn't
?S: there already.
?S:.
?C:MYHOSTNAME (HOSTNAME):
?C: This symbol contains name of the host the program is going to run on.
?C: The domain is not kept with hostname, but must be gotten from MYDOMAIN.
?C: The dot comes with MYDOMAIN, and need not be supplied by the program.
?C: If gethostname() or uname() exist, MYHOSTNAME may be ignored. If MYDOMAIN
?C: is not used, MYHOSTNAME will hold the name derived from PHOSTNAME.
?C:.
?C:MYDOMAIN:
?C: This symbol contains the domain of the host the program is going to
?C: run on.  The domain must be appended to HOSTNAME to form a complete
?C: host name.  The dot comes with MYDOMAIN, and need not be supplied by
?C: the program.  If the host name is derived from PHOSTNAME, the domain
?C: may or may not already be there, and the program should check.
?C:.
?H:#define MYHOSTNAME "$myhostname"  /**/
?H:#define MYDOMAIN "$mydomain"  /**/
?H:.
?LINT:extern osname
?T:cont
 i tans tmp_re
: now get the host name
echo " "
echo "Figuring out host name..." >&4
case "$myhostname" in
") cont=true
```

```
 echo 'Maybe "hostname" will work...'
 if tans=`sh -c hostname 2>&1` ; then
  myhostname=$tans
  phostname=hostname
  cont=''
 fi
 ;;
*) cont='';;
esac
if $test "$cont"; then
 if ./xenix; then
  echo 'Oh, dear.  Maybe "/etc/systemid" is the key...'
  if tans=`cat /etc/systemid 2>&1` ; then
   myhostname=$tans
   phostname='cat /etc/systemid'
   echo "Whadyaknow.  Xenix always was a bit strange..."
   cont=''
  fi
 elif $test -r /etc/systemid; then
  echo "(What is a non-Xenix system doing with /etc/systemid?)"
 fi
fi
if $test "$cont"; then
 echo 'No, maybe "uuname -l" will work...'
 if tans=`sh -c 'uuname -l' 2>&1` ; then
  myhostname=$tans
  phostname='uuname -l'
 else
  echo 'Strange.  Maybe "uname -n" will work...'
  if tans=`sh -c 'uname -n' 2>&1` ; then
   myhostname=$tans
   phostname='uname -n'
  else
   echo 'Oh well, maybe I can mine it out of whoami.h...'
   if
 tans=`sh -c $contains' sysname $usrinc/whoami.h' 2>&1` ; then
    myhostname=`echo "$tans" | $sed 's/^.*"\(.*\)"/\1/'`
    phostname="sed -n -e '"/sysname/s/^.*\"\\(.*\\)\"/\1/{"" -e p -e q -e '}' <$usrinc/whoami.h"
   else
    case "$myhostname" in
    '') echo "Does this machine have an identity crisis or something?"
     phostname='';;
    *)
     echo "Well, you said $myhostname before..."
     phostname='echo $myhostname';;
    esac
   fi
  fi
```

```
 fi
fi
case "$myhostname" in
") myhostname=noname ;;
esac
: you do not want to know about this
set $myhostname
myhostname=$1

: verify guess
if $test "$myhostname" ; then
 dflt=y
 rp='Your host name appears to be "'$myhostname'".' Right?"
 . ./myread
 case "$ans" in
 y*) ;;
 *) myhostname=";;
 esac
fi

: bad guess or no guess
while $test "X$myhostname" = X ; do
 dflt="
 rp="Please type the (one word) name of your host:"
 . ./myread
 myhostname="$ans"
done

: translate upper to lower if necessary
case "$myhostname" in
*[A-Z]*)
 echo
 "(Normalizing case in your host name)"
 myhostname=`echo $myhostname | ./tr '[A-Z]' '[a-z]'`
 ;;
esac

?X: Do not ask for domain name if this is not used later on. In that
?X: case, the hostname may keep its domain name, but it doesn't matter.
@if MYDOMAIN || mydomain
case "$myhostname" in
*.*)
 dflt=`expr "X$myhostname" : "X[^.]*\(\..*\)"`
 myhostname=`expr "X$myhostname" : "X\([^.]*\)\."`
 echo "(Trimming domain name from host name--host name is now $myhostname)"
 ;;
*) case "$mydomain" in
 ")
```

```
?X:
?X: There is currently no way to say we do not want hostcat if mydomain is not
?X: used. One way to achieve that would be to put that code in a mydomain.U
?X: unit. However, we want to stick the sanity checks right after the domain
?X: name computation, or if none is done, right after the hostname computation.
?X:
  {
?X: If we use NIS, try ypmatch.
   test "X$hostcat" = "Xypcat hosts" &&
   ypmatch "$myhostname" hosts 2>/dev/null |\
    $sed -e 's/[  ]*#.*//; s/$/ /' > hosts
 && \
   $test -s hosts
  } || {
?X: Extract only the relevant hosts, reducing file size,
?X: remove comments, insert trailing space for later use.
?X: Test to be sure we *have* a hostcat command.  os390 doesn't.
   test "X$hostcat" != "X" &&
   $hostcat | $sed -n -e "s/[  ]*#.*//; s/\$/ /
     /[  ]$myhostname[ . ]/p" > hosts
  }
  tmp_re="[ . ]"
  if $test -f hosts; then
   $test x`$awk "/[0-9].*[  ]$myhostname$tmp_re/ { sum++ }
        END { print sum }" hosts` = x1 || tmp_re="[  ]"
   dflt=.`$awk "/[0-9].*[  ]$myhostname$tmp_re/ {for(i=2; i<=NF;i++) print \\\$i}" \
    hosts | $sort | $uniq | \
    $sed -n -e "s/$myhostname\.\([-a-zA-Z0-9_.]\)/\1/p"`
   case `$echo X$dflt` in
   X*\ *) echo "(Several hosts in the database matched hostname)"
    dflt=.
    ;;
   X.) echo "(You do not have fully-qualified names in the hosts database)"
    ;;
   esac
  else
   echo "(I cannot locate a hosts database anywhere)"
   dflt=.
  fi
  case "$dflt" in
  .)
   tans=`./loc resolv.conf X /etc /usr/etc`
   if
 $test -f "$tans"; then
    echo "(Attempting domain name extraction from $tans)"
?X: Look for either a search or a domain directive.
    dflt=.`$sed -n -e 's/ / /g' \
      -e 's/^search  *\([^ ]*\).*/\1/p' $tans \
```

```
     -e 1q 2>/dev/null`
    case "$dflt" in
    .) dflt=.`$sed -n -e 's/ / /g' \
         -e 's/^domain  *\([^ ]*\).*/\1/p' $tans \
         -e 1q 2>/dev/null`
     ;;
    esac
   fi
   ;;
  esac
  case "$dflt" in
  .) echo "(No help from resolv.conf either -- attempting clever guess)"
   dflt=.`sh -c domainname 2>/dev/null`
   case "$dflt" in
   ") dflt='.';;
   .nis.*|.yp.*|.main.*) dflt=`echo $dflt | $sed -e 's/^\.[^.]*//'`;;
   esac
   ;;
  esac
  case "$dflt$osname" in
  .os390) echo "(Attempting domain name extraction from //'SYS1.TCPPARMS(TCPDATA)')"
   dflt=.`awk '/^DOMAINORIGIN/ {print $2}' "//'SYS1.TCPPARMS(TCPDATA)'" 2>/dev/null`
   ;;
  esac
  case "$dflt" in
  .) echo "(Lost all hope -- silly guess then)"
   dflt='.nonet'
   ;;
  esac
  $rm -f hosts
  ;;
 *)
 dflt="$mydomain";;
 esac;;
esac
echo " "
rp="What is your domain name?"
. ./myread
tans="$ans"
case "$ans" in
") ;;
.*) ;;
*) tans=".$tans";;
esac
mydomain="$tans"

: translate upper to lower if necessary
case "$mydomain" in
```

```
*[A-Z]*)
 echo "(Normalizing case in your domain name)"
 mydomain=`echo $mydomain | ./tr '[A-Z]' '[a-z]'`
 ;;
esac

@end
: a little sanity check here
case "$phostname" in
") ;;
*)
 case `$phostname | ./tr '[A-Z]' '[a-z]'` in
 $myhostname$mydomain|$myhostname) ;;
 *)
  case "$phostname" in
  sed*)
   echo "(That doesn't agree with your whoami.h file, by the way.)"
   ;;
  *)
   echo "(That doesn't agree with your $phostname command, by the way.)"
   ;;
  esac
 ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/myhostname.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_msgctl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msgctl.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:38  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_msgctl: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_msgctl:
?S: This variable conditionally defines the HAS_MSGCTL symbol, which
?S: indicates to the C program that the msgctl() routine is available.
?S:.
?C:HAS_MSGCTL:
?C: This symbol, if defined, indicates that the msgctl() routine is
?C: available to perform message control operations.
?C:.
?H:#$d_msgctl
 HAS_MSGCTL  /**/
?H:.
?LINT:set d_msgctl
: see if msgctl exists
set msgctl d_msgctl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_msgctl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libnlist.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libnlist.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:08:02  ram
?RCS: patch61: added usrinc and mips on the dependency line
?RCS: patch61: make sure we call ./mips
?RCS: patch61: added a ?LINT: hint
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:00  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libnlist: Loc libpth Guess usrinc _a
?MAKE: -pick add $@ %<
?S:libnlist (libmld):
?S: This variable contains the name of the library required to
 get the
?S: definition of the nlist() function.  On a MIPS RISC/OS box, it is -lmld.
?S: Under Sys Vr4, it is -lelf.  Otherwise, its value is empty.
?S:.
```

```
?T:xxx
?LINT:use usrinc
: see if we need a special library for 'nlist()'
echo " "
: How about doing this if nlist is not in libc...
if ./mips ; then
 libnlist='-lmld'
else
 xxx=`./loc libelf$_a x $libpth`
 case "$xxx" in
 x)  ;;
 *)
  libnlist="$xxx"
  ;;
 esac
fi
case "$libnlist" in
") echo "No special library for nlist() seems necessary." >&4
 ;;
*)  echo "nlist() can be found in $libnlist." >&4
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/libnlist.U
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```
?RCS: $Id: Setprefixvar.U,v 3.0 2006/04/01 17:25:29 hmbrand $
?RCS:
?RCS: Copyright (c) 2006-2006, H.Merijn Brand & Nicholas Clark
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:   You may distribute under the terms of either the GNU General Public
?RCS:   License or the Artistic License, as specified in the README file.
?RCS:
?X:
?X: This unit sets up the scripts installprefix and setprefixvar, so code
?X: in other parts can be more simple and maintainable
?X:
?MAKE:Setprefixvar: Myread Getfile startsh eunicefix test \
 prefix prefixexp installprefix installprefixexp
?MAKE: -pick add $@ %<
?LINT:extern prefixvar
?X: metalint still sees "`\$${prefixvar}exp`" as variable :(
```

```
?T:prefixvarexp
?F:./setprefixvar
?F:./installprefix
: Perform
 the prefixexp/installprefixexp correction if necessary
cat <<EOS >installprefix
$startsh
EOS
cat <<'EOSC' >>installprefix
: Change installation prefix, if necessary.
if $test X"$prefix" != X"$installprefix"; then
   eval "install${prefixvar}=\`echo \$${prefixvar}exp | sed \"s#^\$prefixexp#\$installprefixexp#\"\`"
else
   eval "install${prefixvar}=\"\$${prefixvar}exp\""
fi
EOSC
chmod +x installprefix
$eunicefix installprefix

: Set variables such as privlib and privlibexp from the output of ./getfile
: performing the prefixexp/installprefixexp correction if necessary.
cat <<EOS >setprefixvar
$startsh
EOS
cat <<'EOSC' >>setprefixvar
eval "${prefixvar}=\"\$ans\""
eval "${prefixvar}exp=\"\$ansexp\""
. ./installprefix
EOSC
chmod +x setprefixvar
$eunicefix setprefixvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/Setprefixvar.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sem.U,v $
```

```
?RCS: Revision 3.0  1993/08/18  12:07:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sem: test d_semctl d_semget d_semop Setvar Findhdr osname
?MAKE: -pick add $@ %<
?S:d_sem:
?S: This variable conditionally defines the HAS_SEM symbol, which
?S: indicates that the entire sem*(2) library is present.
?S:.
?C:HAS_SEM:
?C: This symbol, if defined, indicates that the entire sem*(2) library is
?C: supported.
?C:.
?H:#$d_sem HAS_SEM  /**/
?H:.
?T:h_sem
?LINT:set d_sem
:
 see how much of the 'sem*(2)' library is present.
h_sem=true
echo " "
case "$d_semctl$d_semget$d_semop" in
*"$undef"*) h_sem=false;;
esac
case "$osname" in
freebsd)
   case "`ipcs 2>&1`" in
   "SVID messages"*"not configured"*)
 echo "Your $osname does not have the sem*(2) configured." >&4
       h_sem=false
 val="$undef"
 set semctl d_semctl
 eval $setvar
 set semget d_semget
 eval $setvar
 set semop d_semop
 eval $setvar
 ;;
   esac
   ;;
esac
: we could also check for sys/ipc.h ...
if $h_sem && $test `./findhdr sys/sem.h`; then
 echo "You have the full sem*(2) library." >&4
 val="$define"
else
 echo "You don't have the full sem*(2) library." >&4
 val="$undef"
```

```
fi
set d_sem
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sem.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_exp2: Inlibc
?MAKE: -pick add $@ %<
?S:d_exp2:
?S: This variable conditionally defines the HAS_EXP2 symbol, which
?S: indicates to the C program that the exp2() routine is available.
?S:.
?C:HAS_EXP2:
?C: This symbol, if defined, indicates that the exp2 routine is
?C: available to do the 2**x function.
?C:.
?H:#$d_exp2 HAS_EXP2  /**/
?H:.
?LINT:set d_exp2
: see if exp2 exists
set exp2 d_exp2
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_exp2.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_htonl.U,v $
?RCS: Revision 3.0.1.2  1994/08/29  16:09:25  ram
?RCS: patch32: now properly handles htonl() and friends when macros (ADO)
?RCS:
```

```
?RCS: Revision 3.0.1.1  1994/05/06  14:45:00  ram
?RCS: patch23: now also check for htonl() macro (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:22  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_htonl: Inlibc Setvar i_niin i_sysin cat rm contains \
 cppstdin cppflags cppminus
?MAKE: -pick add $@ %<
?S:d_htonl:
?S: This variable conditionally
 defines HAS_HTONL if htonl() and its
?S: friends are available to do network order byte swapping.
?S:.
?C:HAS_HTONL (HTONL):
?C: This symbol, if defined, indicates that the htonl() routine (and
?C: friends htons() ntohl() ntohs()) are available to do network
?C: order byte swapping.
?C:.
?C:HAS_HTONS (HTONS):
?C: This symbol, if defined, indicates that the htons() routine (and
?C: friends htonl() ntohl() ntohs()) are available to do network
?C: order byte swapping.
?C:.
?C:HAS_NTOHL (NTOHL):
?C: This symbol, if defined, indicates that the ntohl() routine (and
?C: friends htonl() htons() ntohs()) are available to do network
?C: order byte swapping.
?C:.
?C:HAS_NTOHS (NTOHS):
?C: This symbol, if defined, indicates that the ntohs() routine (and
?C: friends htonl() htons() ntohl()) are available to do network
?C: order byte swapping.
?C:.
?H:#$d_htonl HAS_HTONL  /**/
?H:#$d_htonl HAS_HTONS  /**/
?H:#$d_htonl HAS_NTOHL  /**/
?H:#$d_htonl HAS_NTOHS  /**/
?H:.
?F:!htonl.c
?LINT:set d_htonl
:
 see if htonl --and friends-- exists
val=''
set htonl val
eval $inlibc

: Maybe they are macros.
```

```
case "$val" in
$undef)
 $cat >htonl.c <<EOM
#include <stdio.h>
#include <sys/types.h>
#$i_niin I_NETINET_IN
#$i_sysin I_SYS_IN
#ifdef I_NETINET_IN
#include <netinet/in.h>
#endif
#ifdef I_SYS_IN
#include <sys/in.h>
#endif
#ifdef htonl
printf("Defined as a macro.");
#endif
EOM
 $cppstdin $cppflags $cppminus < htonl.c >htonl.E 2>/dev/null
 if $contains 'Defined as a macro' htonl.E >/dev/null 2>&1; then
  val="$define"
  echo "But it seems to be defined as a macro." >&4
 fi
 $rm -f htonl.?
 ;;
esac
set d_htonl
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_htonl.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sysman.U,v $
?RCS: Revision 3.0.1.2  1994/06/20  07:08:43  ram
?RCS: patch30: now explicitly states that /usr/man/man1 is the default
?RCS: patch30: added /usr/local/man/man1 to the search list
?RCS:
```

```
?RCS: Revision 3.0.1.1  1993/09/13  16:13:50  ram
?RCS: patch10: added support for /local/man/man1 (WAD)
?RCS: patch10: added temporary syspath variable to cut down on line length
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:sysman: test
 Loc Oldconfig
?MAKE: -pick add $@ %<
?S:sysman:
?S: This variable holds the place where the manual is located on this
?S: system. It is not the place where the user wants to put his manual
?S: pages. Rather it is the place where Configure may look to find manual
?S: for unix commands (section 1 of the manual usually). See mansrc.
?S:.
?T:syspath
: determine where manual pages are on this system
echo " "
case "$sysman" in
")
 syspath='/usr/share/man/man1 /usr/man/man1'
 syspath="$syspath /usr/man/mann /usr/man/manl /usr/man/local/man1"
 syspath="$syspath /usr/man/u_man/man1 /usr/share/man/man1"
 syspath="$syspath /usr/catman/u_man/man1 /usr/man/l_man/man1"
 syspath="$syspath /usr/local/man/u_man/man1 /usr/local/man/l_man/man1"
 syspath="$syspath /usr/man/man.L /local/man/man1 /usr/local/man/man1"
 sysman=`./loc . /usr/man/man1 $syspath`
 ;;
esac
if $test -d "$sysman"; then
 echo "System manual is in $sysman." >&4
else
 echo "Could not find manual pages in source form." >&4
fi
```

Found
 in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/sysman.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getservprotos.U,v $
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
```

```
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_getservprotos : Hasproto i_netdb
?MAKE: -pick add $@ %<
?S:d_getservprotos:
?S: This variable conditionally defines the HAS_GETSERV_PROTOS symbol,
?S: which indicates to the C program that <netdb.h> supplies
?S: prototypes for the various getserv*() functions.
?S: See also netdbtype.U for probing for various netdb types.
?S:.
?C:HAS_GETSERV_PROTOS:
?C: This symbol, if defined, indicates that <netdb.h> includes
?C: prototypes for getservent(), getservbyname(), and
?C: getservbyaddr().  Otherwise,
 it is up to the program to guess
?C: them.  See netdbtype.U for probing for various Netdb_xxx_t types.
?C:.
?H:#$d_getservprotos HAS_GETSERV_PROTOS /**/
?H:.
?LINT:set d_getservprotos
: see if prototypes for various getservxxx netdb.h functions are available
echo " "
set d_getservprotos getservent $i_netdb netdb.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/d_getservprotos.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endpwent.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
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?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_endpwent.U,v $
?RCS:
?MAKE:d_endpwent: Inlibc
?MAKE: -pick add $@ %<
?S:d_endpwent:
?S: This variable conditionally defines the HAS_ENDPWENT symbol, which
?S: indicates to the C program that the endpwent() routine is available
?S: for sequential access of the passwd database.
?S:.
```

```
?C:HAS_ENDPWENT:
?C: This symbol, if defined, indicates that the endpwent routine is
?C: available for finalizing sequential access of the passwd database.
?C:.
?H:#$d_endpwent HAS_ENDPWENT  /**/
?H:.
?LINT:set d_endpwent
: see if endpwent exists
set endpwent d_endpwent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_endpwent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_fp.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_fp: Inhdr
?MAKE: -pick add $@ %<
?S:i_fp:
?S: This variable conditionally defines the I_FP symbol, and indicates
?S: whether a C program should include <fp.h>.
?S:.
?C:I_FP:
?C: This symbol, if defined, indicates that <fp.h> exists and
?C: should be included.
?C:.
?H:#$i_fp I_FP  /**/
?H:.
?LINT:set i_fp
: see if this is a fp.h system
set fp.h i_fp
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_fp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setservent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_setservent_r setservent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_setservent_r:
?S: This variable conditionally defines the HAS_SETSERVENT_R symbol,
?S: which indicates to the C program that the setservent_r()
?S: routine is available.
?S:.
?S:setservent_r_proto:
?S: This variable encodes the prototype of setservent_r.
?S: It is zero if d_setservent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setservent_r
?S: is defined.
?S:.
?C:HAS_SETSERVENT_R:
?C: This symbol, if defined, indicates that the setservent_r routine
?C: is
 available to setservent re-entrantly.
?C:.
?C:SETSERVENT_R_PROTO:
?C: This symbol encodes the prototype of setservent_r.
?C: It is zero if d_setservent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setservent_r
?C: is defined.
?C:.
?H:#$d_setservent_r HAS_SETSERVENT_R /**/
?H:#define SETSERVENT_R_PROTO $setservent_r_proto /**/
?H:.
?T:try hdrs d_setservent_r_proto
: see if setservent_r exists
set setservent_r d_setservent_r
eval $inlibc
case "$d_setservent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_setservent_r_proto:$usethreads" in
 ":define") d_setservent_r_proto=define
  set d_setservent_r_proto setservent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_setservent_r_proto" in
 define)
```

```
 case "$setservent_r_proto" in
 "|0) try='int setservent_r(int, struct servent_data*);'
 ./protochk "$extern_C $try" $hdrs && setservent_r_proto=I_ID ;;
 esac
 case "$setservent_r_proto" in
 "|0) try='void
 setservent_r(int, struct servent_data*);'
 ./protochk "$extern_C $try" $hdrs && setservent_r_proto=V_ID ;;
 esac
 case "$setservent_r_proto" in
 "|0) d_setservent_r=undef
  setservent_r_proto=0
  echo "Disabling setservent_r, cannot determine prototype." >&4 ;;
 * ) case "$setservent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) setservent_r_proto="REENTRANT_PROTO_$setservent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "setservent_r has no prototype, not using it." >&4 ;;
  esac
  d_setservent_r=undef
  setservent_r_proto=0
  ;;
 esac
 ;;
*) setservent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_setservent_r.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: i_regex.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Sidney C. Smith <scsmith@cbda9.apgea.army.mil>

```
?RCS:
?RCS: $Log: i_regex.U,v $
?RCS: Revision 3.0.1.1  1995/01/30  14:35:45  ram
?RCS: patch49: created
?RCS:
?RCS:
?MAKE:i_regex: Inhdr
?MAKE: -pick add $@ %<
?S:i_regex:
?S: This variable conditionally defines the I_REGEX symbol, which
?S: indicates to the C program that <regex.h> exists and should
?S: be included.
?S:.
?C:I_REGEX:
?C: This symbol, if defined, indicates that <regex.h> exists
 and should
?C: be included.
?C:.
?H:#$i_regex I_REGEX /**/
?H:.
?LINT:set i_regex
: see if regex is available
set regex.h i_regex
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_regex.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_fp_class.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_fp_class: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_fp_class:
?S: This variable conditionally defines the I_FP_CLASS symbol, and indicates
?S: whether a C program should include <fp_class.h>.
?S:.
?C:I_FP_CLASS:
?C: This symbol, if defined, indicates that <fp_class.h> exists and
?C: should be included.
?C:.
?H:#$i_fp_class I_FP_CLASS  /**/
```

```
?H:.
?LINT:set i_fp_class
: see if this is a fp_class.h system
set fp_class.h i_fp_class
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_fp_class.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_internet.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_internet.U,v $
?RCS: Revision 3.0.1.1  1993/09/13  16:02:04  ram
?RCS: patch10: most mailers support Internet addresses nowadays (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_internet: Myread Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_internet:
?S: This variable conditionally defines the INTERNET symbol, which
?S: indicates to the C program that there is a mailer available
 which
?S: supports internet-style addresses (user@site.domain).
?S:.
?C:INTERNET:
?C: This symbol, if defined, indicates that there is a mailer available
?C: which supports internet-style addresses (user@site.domain).
?C:.
?H:#$d_internet INTERNET /**/
?H:.
?LINT:set d_internet
: check for internet mailer
dflt=y
case "$d_internet" in
"$undef") dflt=n;;
esac
```

```
cat <<EOM

Most mailers can deliver mail to addresses of the INTERNET persuasion,
such as user@host.edu.  Some older mailers, however, require the complete
path to the destination to be specified in the address.

EOM
rp="Does your mailer understand INTERNET addresses?"
. ./myread
case "$ans" in
y*) val="$define";;
*)  val="$undef";;
esac
set d_internet
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_internet.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethent.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_gethent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_gethent: Inlibc
?MAKE: -pick add $@ %<
?S:d_gethent:
?S: This variable conditionally defines HAS_GETHOSTENT if gethostent() is
?S: available to look up host names in some data base or another.
?S:.
?C:HAS_GETHOSTENT:
?C: This symbol, if defined, indicates that the gethostent() routine is
?C: available to look up host names in some
 data base or another.
?C:.
?H:#$d_gethent HAS_GETHOSTENT  /**/
?H:.
```

```
?LINT:set d_gethent
: see if gethostent exists
set gethostent d_gethent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_gethent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_usendir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_usendir.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:47:34  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: likewise for .o replaced by $_o
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_usendir i_ndir ndirlib: test Setvar Findhdr d_readdir _a
?MAKE: -pick add $@ %<
?S:d_usendir:
?S: This variable conditionally defines the EMULATE_NDIR symbol, which
?S: indicates
 to the C program that it should compile the ndir.c code
?S: provided with the package.
?S:.
?S:i_ndir (d_libndir):
?S: This variable conditionally defines the I_NDIR symbol, which
?S: indicates to the C program that it should include the system's
?S: version of ndir.h, rather than the one with this package.
?S:.
?S:ndirlib:
?S: The name of the library to include at linking stage to resolve ndir
?S: symbols. It is up to the makefile to use this value.
?S:.
?C:EMULATE_NDIR (USENDIR):
?C: This symbol, if defined, indicates that the program should compile
?C: the ndir.c code provided with the package.
```

```
?C:.
?C:I_NDIR (LIBNDIR):
?C: This symbol, if defined, indicates that the program should include the
?C: system's version of ndir.h, rather than the one with this package.
?C:.
?H:#$d_usendir EMULATE_NDIR  /**/
?H:#$i_ndir I_NDIR  /**/
?H:.
?T:val2
?LINT: set d_usendir i_ndir
: see if there are directory access routines out there
echo " "
if $test `./findhdr ndir.h` && \
 ( $test -r /usr/lib/libndir$_a
 || $test -r /usr/local/lib/libndir$_a ); then
 echo "Ndir library found." >&4
 if $test -r /usr/lib/libndir$_a; then
  ndirlib='-lndir'
 else
  ndirlib="/usr/local/lib/libndir$_a"
 fi
 val2="$define"
 val="$undef"
else
 ndirlib=''
 val2="$undef"
 case "$d_readdir" in
 "$define")
 echo "No ndir library found, but you have readdir() so we'll use that." >&4
  val="$undef";
  ;;
 *)
  echo "No ndir library found." >&4
  val="$define"
  ;;
 esac
fi
set d_usendir
eval $setvar
val="$val2"
set i_ndir
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_usendir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isless: cat Compile rm_try Setvar
?MAKE: -pick add $@ %<
?S:d_isless:
?S: This variable conditionally defines the HAS_ISLESS symbol, which
?S: indicates to the C program that the isless() routine is available.
?S:.
?C:HAS_ISLESS:
?C: This symbol, if defined, indicates that the isless routine is
?C: available to do the isless function.
?C:.
?H:#$d_isless HAS_ISLESS  /**/
?H:.
?LINT:set d_isless
: check for isless
echo "Checking to see if you have isless..." >&4
$cat >try.c <<EOCP
#include <math.h>
int main() { return isless(2.0, 1.0); }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have isless."
else
 val="$undef"
 echo "You do not have isless."
fi
$rm_try
set d_isless
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_isless.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 3.0.
```

```
?RCS:
?MAKE:d_u32align: Compile cat rm_try Oldconfig run i_stdlib \
 byteorder u32type Myread Setvar u8type signal_t
?MAKE: -pick add $@ %<
?S:d_u32align:
?S: This variable tells whether you must access character data
?S: through U32-aligned pointers.
?S:.
?C:U32_ALIGNMENT_REQUIRED:
?C: This symbol, if defined, indicates that you must access
?C: character data through U32-aligned pointers.
?C:.
?H:?%<:#ifndef U32_ALIGNMENT_REQUIRED
?H:?%<:#$d_u32align U32_ALIGNMENT_REQUIRED /**/
?H:?%<:#endif
?H:.
?F:!try
: Checking 32bit alignedness
$cat
 <<EOM

Checking to see whether you can access character data unalignedly...
EOM
case "$d_u32align" in
")   $cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#define U32 $u32type
#define BYTEORDER 0x$byteorder
#define U8 $u8type
#include <signal.h>
#ifdef SIGBUS
$signal_t bletch(int s) { exit(4); }
#endif
int main() {
#if BYTEORDER == 0x1234 || BYTEORDER == 0x4321
   volatile U8 buf[8];
   volatile U32 *up;
   int i;

   if (sizeof(U32) != 4) {
 printf("sizeof(U32) is not 4, but %d\n", sizeof(U32));
 exit(1);
   }
```

```
   fflush(stdout);

#ifdef SIGBUS
   signal(SIGBUS, bletch);
#endif

   buf[0] = 0;
   buf[1] = 0;
   buf[2] = 0;
   buf[3] = 1;
   buf[4] = 0;
   buf[5] = 0;
   buf[6] = 0;
   buf[7] = 1;

   for (i = 0; i < 4; i++) {
 up = (U32*)(buf + i);
 if (! ((*up == 1 << (8*i)) ||   /* big-endian */
        (*up == 1 << (8*(3-i)))  /* little-endian */
       )
    )
 {
     printf("read failed (%x)\n", *up);

    exit(2);
 }
   }

   /* write test */
   for (i = 0; i < 4; i++) {
 up = (U32*)(buf + i);
 *up = 0xBeef;
 if (*up != 0xBeef) {
     printf("write failed (%x)\n", *up);
     exit(3);
 }
   }

   exit(0);
#else
   printf("1\n");
   exit(1);
#endif
   return 0;
}
EOCP
set try
if eval $compile_ok; then
```

```
 echo "(Testing for character data alignment may crash the test.  That's okay.)" >&4
 $run ./try 2>&1 >/dev/null
 case "$?" in
 0) cat >&4 <<EOM
You can access character data pretty unalignedly.
EOM
  d_u32align="$undef"
  ;;
 *) cat >&4 <<EOM
It seems that you must access character data in an aligned manner.
EOM
  d_u32align="$define"
  ;;
 esac
else
 rp='Can you access character data at unaligned addresses?'
 dflt='n'
 . ./myread
 case "$ans" in
 [yY]*) d_u32align="$undef"  ;;
 *) d_u32align="$define" ;;
 esac
fi
$rm_try
;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_u32align.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2017, 2019, Karl Williamson
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_wctype: Inhdr
?MAKE: -pick add $@ %<
?S:i_wctype:
?S: This variable conditionally defines the I_WCTYPE symbol,
?S: that indicates whether a C program may include <wctype.h>.
?S:.
```

```
?C:I_WCTYPE:
?C: This symbol, if defined, indicates that <wctype.h> exists.
?C:.
?H:#$i_wctype I_WCTYPE  /**/
?H:.
?LINT:set i_wctype
: see if this system has wctype.h
set wctype.h i_wctype
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_wctype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: patchlevel.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:18:41  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:patchlevel: package baserev test rsrc
?MAKE: -pick add $@ %<
?T:Revision
?S:patchlevel:
?S: The patchlevel level of this package.
?S: The value of patchlevel comes from the patchlevel.h file.
?S:.
: get the patchlevel
echo " "
echo "Getting the current patchlevel..." >&4
if $test -r
 $rsrc/patchlevel.h;then
 patchlevel=`awk \
  '/^#[  ]*define[  ][  ]*PATCHLEVEL/ {print $3}' \
  < $rsrc/patchlevel.h`
else
```

```
 patchlevel=0
fi
echo "(You have $package $baserev PL$patchlevel.)"
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/patchlevel.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpwent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getpwent_r getpwent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_pwd extern_C
?MAKE: -pick add $@ %<
?S:d_getpwent_r:
?S: This variable conditionally defines the HAS_GETPWENT_R symbol,
?S: which indicates to the C program that the getpwent_r()
?S: routine is available.
?S:.
?S:getpwent_r_proto:
?S: This variable encodes the prototype of getpwent_r.
?S: It is zero if d_getpwent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getpwent_r
?S: is defined.
?S:.
?C:HAS_GETPWENT_R:
?C: This symbol, if defined, indicates that the getpwent_r routine
?C: is available to
 getpwent re-entrantly.
?C:.
?C:GETPWENT_R_PROTO:
?C: This symbol encodes the prototype of getpwent_r.
?C: It is zero if d_getpwent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getpwent_r
?C: is defined.
?C:.
?H:#$d_getpwent_r HAS_GETPWENT_R /**/
?H:#define GETPWENT_R_PROTO $getpwent_r_proto /**/
?H:.
?T:try hdrs d_getpwent_r_proto
: see if getpwent_r exists
set getpwent_r d_getpwent_r
```

```
eval $inlibc
case "$d_getpwent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_pwd pwd.h"
 case "$d_getpwent_r_proto:$usethreads" in
 ":define") d_getpwent_r_proto=define
  set d_getpwent_r_proto getpwent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getpwent_r_proto" in
 define)
 case "$getpwent_r_proto" in
 "|0) try='int getpwent_r(struct passwd*, char*, size_t, struct passwd**);'
 ./protochk "$extern_C $try" $hdrs && getpwent_r_proto=I_SBWR ;;
 esac
 case "$getpwent_r_proto" in
 "|0) try='int getpwent_r(struct passwd*, char*, int, struct passwd**);'
 ./protochk
 "$extern_C $try" $hdrs && getpwent_r_proto=I_SBIR ;;
 esac
 case "$getpwent_r_proto" in
 "|0) try='struct passwd* getpwent_r(struct passwd*, char*, size_t);'
 ./protochk "$extern_C $try" $hdrs && getpwent_r_proto=S_SBW ;;
 esac
 case "$getpwent_r_proto" in
 "|0) try='struct passwd* getpwent_r(struct passwd*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getpwent_r_proto=S_SBI ;;
 esac
 case "$getpwent_r_proto" in
 "|0) try='int getpwent_r(struct passwd*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getpwent_r_proto=I_SBI ;;
 esac
 case "$getpwent_r_proto" in
 "|0) try='int getpwent_r(struct passwd*, char*, int, FILE**);'
 ./protochk "$extern_C $try" $hdrs && getpwent_r_proto=I_SBIH ;;
 esac
 case "$getpwent_r_proto" in
 "|0) d_getpwent_r=undef
  getpwent_r_proto=0
  echo "Disabling getpwent_r, cannot determine prototype." >&4 ;;
 * ) case "$getpwent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getpwent_r_proto="REENTRANT_PROTO_$getpwent_r_proto" ;;
  esac
  echo
 "Prototype: $try" ;;
 esac
```

```
 ;;
 *) case "$usethreads" in
  define) echo "getpwent_r has no prototype, not using it." >&4 ;;
  esac
  d_getpwent_r=undef
  getpwent_r_proto=0
  ;;
 esac
 ;;
*) getpwent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getpwent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Prefixit.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Prefixit.U,v $
?RCS: Revision 3.0.1.1  1995/01/30  14:29:22  ram
?RCS: patch49: created
?RCS:
?X:
?X: Used as: "set dflt var dir; eval $prefixit" to set $dflt to be
?X: $prefix/dir by default, or the previous $var depending on certain
?X: conditions:
?X: - If the $oldprefix variable is empty, then $prefix holds the same
?X:   value as on previous runs. Therefore, reuse $var if set, otherwise
?X:   set $dflt to $prefix/dir.
?X: - If $oldprefix is not
 empty, then set $dflt to $prefix/dir if $var
?X:   is empty (first run). Otherwise, if $var is $oldprefix/dir, then
?X:   change it to $prefix/dir. If none of the above, reuse the old $var.
?X:
?X: When dir is omitted, the dflt variable is set to $var if prefix did not
?X: change, to an empty value otherwise. If dir=none, then a single space
?X: in var is kept as-is, even if the prefix changes.
?X:
```

```
?MAKE:Prefixit: prefix oldprefix
?MAKE: -pick add $@ %<
?LINT:define prefixit
?S:prefixit:
?S: This shell variable is used internally by Configure to reset
?S: the leading installation prefix correctly when it is changed.
?S:  set dflt var [dir]
?S:  eval $prefixit
?S: That will set $dflt to $var or $prefix/dir depending on the
?S: value of $var and $oldprefix.
?S:.
?V:prefixit
?T:tp
: set the prefixit variable, to compute a suitable default value
prefixit='case "$3" in
""|none)
 case "$oldprefix" in
 "") eval "$1=\"\$$2\"";;
 *)
  case "$3" in
  "") eval "$1=";;
  none)
   eval "tp=\"\$$2\"";
   case
 "$tp" in
   ""|" "|none) eval "$1=\"\$$2\"";;
   *) eval "$1=";;
   esac;;
  esac;;
 esac;;
*)
 eval "tp=\"$oldprefix-\$$2-\"", eval "tp=\"$tp\"";
 case "$tp" in
 --|/*--|\~*--) eval "$1=\"$prefix/$3\"";;
 /*-$oldprefix/*|\~*-$oldprefix/*)
  eval "$1=\`echo \$$2 | sed \"s,^$oldprefix,$prefix,\"\`";;
 *) eval "$1=\"\$$2\"";;
 esac;;
esac'
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Prefixit.U
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```
?RCS: $Id$
?RCS:
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```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: lns.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  07:05:52  ram
?RCS: patch30: created by ADO
?RCS:
?MAKE:issymlink: lns test rm
?MAKE: -pick add $@ %<
?S:issymlink:
?S: This variable holds the test command to test for a symbolic link
?S: (if they are supported).  Typical values include 'test -h' and
?S: 'test -L'.
?S:.
?T:pth p
?LINT:change PATH test
?LINT:extern newsh
: determine whether symbolic links are supported
echo
 " "
case "$lns" in
*"ln"*" -s")
 echo "Checking how to test for symbolic links..." >&4
 $lns blurfl sym
 if $test "X$issymlink" = X; then
?X:
?X: In some AIX 4 versions the (ksh) builtin test (-h) is broken.
?X:
  case "$newsh" in
  ") sh     -c "PATH= test -h sym" >/dev/null 2>&1 ;;
  *)  $newsh -c "PATH= test -h sym" >/dev/null 2>&1 ;;
  esac
  if test $? = 0; then
   issymlink="test -h"
  else
   echo "Your builtin 'test -h' may be broken." >&4
   case "$test" in
   /*) ;;
   *) pth=`echo $PATH | sed -e "s/$p_/ /g"`
    for p in $pth
    do
     if test -f "$p/$test"; then
```

```
      test="$p/$test"
      break
     fi
    done
    ;;
   esac
   case "$test" in
   /*)
    echo "Trying external '$test -h'." >&4
    issymlink="$test -h"
    if $test ! -h sym >/dev/null 2>&1; then
     echo "External '$test -h' is broken, too." >&4
     issymlink="
    fi
    ;;
   *) issymlink=" ;;
   esac
  fi
 fi
 if $test "X$issymlink" = X; then
  if $test -L sym 2>/dev/null; then
   issymlink="$test
 -L"
   echo "The builtin '$test -L' worked." >&4
  fi
 fi
 if $test "X$issymlink" != X; then
  echo "You can test for symbolic links with '$issymlink'." >&4
 else
  echo "I do not know how you can test for symbolic links." >&4
 fi
 $rm -f blurfl sym
 ;;
*) echo "No symbolic links, so not testing for their testing..." >&4
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/issymlink.U
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?RCS: $Id: d_scannl.U,v 3.0.1.2 1997/02/28 15:41:27 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_scannl.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:41:27  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  13:59:12  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:00  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Does the scanf routine read "\n" correctly ? This is was not
?X: the case on AIX...
?X:
?MAKE:d_scannl: cat rm Setvar Compile run
?MAKE: -pick
 add $@ %<
?S:d_scannl:
?S: This variable conditionally defines SCAN_NL, which indicates
?S: whether the C library routines scanf() and friends can deal with
?S: a '\n' in the input correctly. They do most of the time.
?S:.
?C:SCAN_NL:
?C: This symbol is defined if the C library routines scanf() and friends
?C: can deal with a '\n' in the input correctly, so that you can say
?C: scanf("%d\n"); instead of scanf("%d"); getc(c); to handle the '\n'.
?C:.
?H:#$d_scannl SCAN_NL  /* scanf("%d\n") works */
?H:.
?F:!try
?LINT:set d_scannl
: does scanf handle "\n" correctly ?
echo " "
val="$define"
?X: I really want to say "\n" instead of '\n', because I am referring
?X: to the string given as argument to scanf().
echo 'Let""""s see if scanf() handles "\\n" correctly...' >&4
$cat >try.c <<'EOCP'
int main()
{
 int i = 0, j = 0;
 scanf("%d\n%d", &i, &j);
 if (j != 3)
  exit(1);
```

```
 exit(0);
}
EOCP
set try
if eval $compile_ok; then
 if $run ./try <<'EOD'
2
3
EOD
 then
  echo "Yes, it does."
 else
  echo
 "No, it doesn't."
  val="$undef"
 fi
else
 echo "(I can't seem to compile the test program. Assuming it does.)"
fi
set d_scannl
eval $setvar
$rm -f try.* try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_scannl.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: pidtype.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:31:27  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:33  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:pidtype: Myread Typedef
?MAKE: -pick add $@ %<
?S:pidtype:
```

```
?S: This variable defines PIDTYPE to be something like pid_t, int,
?S: ushort, or whatever type is used to declare process ids in the kernel.
?S:.
?C:Pid_t (PIDTYPE):
?C: This symbol holds the type
 used to declare process ids in the kernel.
?C: It can be int, uint, pid_t, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Pid_t $pidtype  /* PID type */
?H:.
: see what type pids are declared as in the kernel
set pid_t pidtype int stdio.h sys/types.h
eval $typedef
dflt="$pidtype"
echo " "
rp="What type are process ids on this system declared as?"
. ./myread
pidtype="$ans"
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/pidtype.U
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```
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?RCS:
?MAKE:d_isnanl: Inlibc
?MAKE: -pick add $@ %<
?S:d_isnanl:
?S: This variable conditionally defines the HAS_ISNANL symbol, which
?S: indicates to the C program that the isnanl() routine is available.
?S:.
?C:HAS_ISNANL:
?C: This symbol, if defined, indicates that the isnanl routine is
?C: available to check whether a long double is a NaN.
?C:.
?H:#$d_isnanl HAS_ISNANL  /**/
?H:.
?LINT:set d_isnanl
: see if isnanl exists
set isnanl d_isnanl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_isnanl.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_lgamma: Inlibc
?MAKE: -pick add $@ %<
?S:d_lgamma:
?S: This variable conditionally defines the HAS_LGAMMA symbol, which
?S: indicates to the C program that the lgamma() routine is available
?S: for the log gamma function.  See also d_tgamma and d_lgamma_r.
?S:.
?C:HAS_LGAMMA:
?C: This symbol, if defined, indicates that the lgamma routine is
?C: available to do the log gamma function.  See also HAS_TGAMMA and
?C: HAS_LGAMMA_R.
?C:.
?H:#$d_lgamma HAS_LGAMMA  /**/
?H:.
?LINT:set d_lgamma
: see if lgamma exists
set lgamma d_lgamma
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_lgamma.U
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```
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?RCS:
?MAKE:d_timegm: Inlibc
?MAKE: -pick add $@ %<
?S:d_timegm:
?S: This variable conditionally defines the HAS_TIMEGM symbol, which
?S: indicates to the C program that the timegm () routine is available.
?S:.
?C:HAS_TIMEGM:
?C: This symbol, if defined, indicates that the timegm routine is
```

```
?C: available to do the opposite of gmtime ()
?C:.
?H:#$d_timegm HAS_TIMEGM  /**/
?H:.
?LINT:set d_timegm
: see if timegm exists
set timegm d_timegm
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_timegm.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_pipe2: Inlibc
?MAKE: -pick add $@ %<
?S:d_pipe2:
?S: This variable conditionally defines the HAS_PIPE2 symbol, which
?S: indicates to the C program that the pipe2() routine is available
?S: to create an inter-process channel.
?S:.
?C:HAS_PIPE2:
?C: This symbol, if defined, indicates that the pipe2 routine is
?C: available to create an inter-process channel.
?C:.
?H:#$d_pipe2 HAS_PIPE2  /**/
?H:.
?LINT:set d_pipe2
: see if pipe2 exists
set pipe2 d_pipe2
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_pipe2.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getprotobynumber_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getprotobynumber_r getprotobynumber_r_proto: Inlibc Protochk \
 Hasproto i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getprotobynumber_r:
?S: This variable conditionally defines the HAS_GETPROTOBYNUMBER_R symbol,
?S: which indicates to the C program that the getprotobynumber_r()
?S: routine is available.
?S:.
?S:getprotobynumber_r_proto:
?S: This variable encodes the prototype of getprotobynumber_r.
?S: It is zero if d_getprotobynumber_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getprotobynumber_r
?S: is defined.
?S:.
?C:HAS_GETPROTOBYNUMBER_R:
?C: This
 symbol, if defined, indicates that the getprotobynumber_r routine
?C: is available to getprotobynumber re-entrantly.
?C:.
?C:GETPROTOBYNUMBER_R_PROTO:
?C: This symbol encodes the prototype of getprotobynumber_r.
?C: It is zero if d_getprotobynumber_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getprotobynumber_r
?C: is defined.
?C:.
?H:#$d_getprotobynumber_r HAS_GETPROTOBYNUMBER_R /**/
?H:#define GETPROTOBYNUMBER_R_PROTO $getprotobynumber_r_proto /**/
?H:.
?T:try hdrs d_getprotobynumber_r_proto
: see if getprotobynumber_r exists
set getprotobynumber_r d_getprotobynumber_r
eval $inlibc
case "$d_getprotobynumber_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getprotobynumber_r_proto:$usethreads" in
 ":define") d_getprotobynumber_r_proto=define
  set d_getprotobynumber_r_proto getprotobynumber_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getprotobynumber_r_proto" in
 define)
```

```
 case "$getprotobynumber_r_proto"
 in
"|0) try='int getprotobynumber_r(int, struct protoent*, char*, size_t, struct protoent**);'
 ./protochk "$extern_C $try" $hdrs && getprotobynumber_r_proto=I_ISBWR ;;
 esac
 case "$getprotobynumber_r_proto" in
"|0) try='struct protoent* getprotobynumber_r(int, struct protoent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getprotobynumber_r_proto=S_ISBI ;;
 esac
 case "$getprotobynumber_r_proto" in
"|0) try='int getprotobynumber_r(int, struct protoent*, struct protoent_data*);'
 ./protochk "$extern_C $try" $hdrs && getprotobynumber_r_proto=I_ISD ;;
 esac
 case "$getprotobynumber_r_proto" in
"|0) d_getprotobynumber_r=undef
  getprotobynumber_r_proto=0
  echo "Disabling getprotobynumber_r, cannot determine prototype." >&4 ;;
* ) case "$getprotobynumber_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getprotobynumber_r_proto="REENTRANT_PROTO_$getprotobynumber_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getprotobynumber_r
 has no prototype, not using it." >&4 ;;
  esac
  d_getprotobynumber_r=undef
  getprotobynumber_r_proto=0
  ;;
 esac
 ;;
*) getprotobynumber_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getprotobynumber_r.U
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```
case $CONFIG in
")
 if test -f config.sh; then TOP=.;
 elif test -f ../config.sh; then TOP=..;
 elif test -f ../../config.sh; then TOP=../..;
 elif test -f ../../../config.sh; then TOP=../../..;
```

```
 elif test -f ../../../../config.sh; then TOP=../../../..;
 else
  echo "Can't find config.sh."; exit 1
 fi
 . $TOP/config.sh
 ;;
esac
case "$0" in
*/*) cd `expr X$0 : 'X\(.*\)/'` ;;
esac
echo "Extracting makedepend (with variable substitutions)"
$spitshell >makedepend <<!GROK!THIS!
$startsh
# $Id: makedepend.sh,v 3.0.1.1 1994/01/24 14:00:05 ram Exp ram $
#
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#  that same Artistic Licence; a copy of which may be found at the root
#  of the source tree for dist 4.0.
#
#
 Original Author: Larry Wall <lwall@netlabs.com>
#
# $Log: makedepend.sh,v $
# Revision 3.0.1.1  1994/01/24  14:00:05  ram
# patch16: changed top ln-style config.sh lookup into test-style one
#
# Revision 3.0  1993/08/18  12:04:37  ram
# Baseline for dist 3.0 netwide release.
#

export PATH || (echo "OOPS, this isn't sh.  Desperation time.  I will feed myself to sh."; sh \$0; kill \$\$)

cat='$cat'
cppflags='$cppflags'
cp='$cp'
cpp='$cppstdin'
echo='$echo'
egrep='$egrep'
expr='$expr'
mv='$mv'
rm='$rm'
sed='$sed'
sort='$sort'
test='$test'
```

```
tr='$tr'
uniq='$uniq'
!GROK!THIS!

$spitshell >>makedepend <<'!NO!SUBS!'

$cat /dev/null >.deptmp
$rm -f *.c.c c/*.c.c
if test -f Makefile; then
   mf=Makefile
else
   mf=makefile
fi
if test -f $mf; then
   defrule=`<$mf sed -n  \
 -e '/^\.c\.o:.*;/{'  \
 -e    's/\$\*\.c//'  \
 -e    's/^[^;]*;[  ]*//p' \
 -e    q    \
 -e '}'    \
 -e '/^\.c\.o: *$/{'  \
 -e    N    \
 -e    's/\$\*\.c//'  \
 -e    's/^.*\n[  ]*//p'  \
 -e    q    \
 -e '}'`
fi
case
 "$defrule" in
") defrule='$(CC) -c $(CFLAGS)' ;;
esac

make clist || ($echo "Searching for .c files..."; \
 $echo *.c | $tr ' ' '\012' | $egrep -v '\*' >.clist)
gotnone=true
for file in `$cat .clist`; do
# for file in `cat /dev/null`; do
   case "$file" in
   *.c) filebase=`basename $file .c` ;;
   *.y) filebase=`basename $file .c` ;;
   ")  continue ;;
   esac
   gotnone=false
   $echo "Finding dependencies for $filebase.o."
   $sed -n <$file >$file.c \
 -e "/^${filebase}_init(/q" \
 -e '/^#/{' \
 -e 's|/\*.*$||' \
```

```
 -e 's|\\$||' \
 -e p \
 -e '}'
   $cpp -I/usr/local/include -I. $cppflags $file.c | \
   $sed \
 -e '/^# *[0-9]/!d' \
 -e 's/^.*"\(.*\)".*$/'$filebase'.o: \1/' \
 -e 's|: \./|: |' \
 -e 's|\.c\.c|.c|' | \
   $uniq | $sort | $uniq >> .deptmp
done

$sed <Makefile >Makefile.new -e '1,/^# AUTOMATICALLY/!d'

make shlist || ($echo "Searching for .SH files..."; \
 $echo *.SH | $tr ' ' '\012' | $egrep -v '\*' >.shlist)
if $gotnone || $test -s .deptmp; then

  for file in `cat .shlist`; do
 $echo `$expr X$file : 'X\(.*\).SH`: $file config.sh \; \
     /bin/sh $file >> .deptmp
   done
   $echo "Updating Makefile..."
   $echo "# If this runs make out of memory, delete /usr/include lines." \
 >> Makefile.new
   $sed 's|^\(.*\.o:\) *\(.*/.*\.c\) *$|\1 \2; "'$defrule \2|" .deptmp \
      >>Makefile.new
else
   make hlist || ($echo "Searching for .h files..."; \
 $echo *.h | $tr ' ' '\012' | $egrep -v '\*' >.hlist)
   $echo "You don't seem to have a proper C preprocessor.  Using grep instead."
   $egrep '^#include ' `cat .clist` `cat .hlist`  >.deptmp
   $echo "Updating Makefile..."
   <.clist $sed -n       \
 -e '/\//{'       \
 -e   's|^\(.*\)/\(.*\)\.c|\2.o: \1/\2.c; "'$defrule \1/\2.c|p" \
 -e   d        \
 -e '}'        \
 -e 's|^\(.*\)\.c|\1.o: \1.c|p' >> Makefile.new
   <.hlist $sed -n 's|\(.*/\)\(.*\)|s= \2= \1\2=|p' >.hsed
   <.deptmp $sed -n 's|c:#include "\(.*\)".*$|o: \1|p' | \
      $sed 's|^[^;]*/||' | \
      $sed -f
 .hsed >> Makefile.new
   <.deptmp $sed -n 's|c:#include <\(.*\)>.*$|o: /usr/include/\1|p' \
      >> Makefile.new
   <.deptmp $sed -n 's|h:#include "\(.*\)".*$|h: \1|p' | \
      $sed -f .hsed >> Makefile.new
```

```
  <.deptmp $sed -n 's|h:#include <\(.*\)>.*$|h: /usr/include/\1|p' \
    >> Makefile.new
  for file in `$cat .shlist`; do
 $echo `$expr X$file : 'X\(.*\).SH`: $file config.sh \; \
    /bin/sh $file >> Makefile.new
  done
fi
$rm -f Makefile.old
$cp Makefile Makefile.old
$cp Makefile.new Makefile
$rm Makefile.new
$echo "# WARNING: Put nothing here or make depend will gobble it up!" >> Makefile
$rm -f .deptmp `sed 's/\.c/.c.c/' .clist` .shlist .clist .hlist .hsed

!NO!SUBS!
$eunicefix makedepend
chmod +x makedepend
case `pwd` in
*SH)
  $rm -f ../makedepend
  ln makedepend ../makedepend
  ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/lib/makedepend.SH
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fpos64_t: \
 Inlibc Setvar Compile rm_try cat fpossize
?MAKE: -pick add $@ %<
?S:d_fpos64_t:
?S: This symbol will be defined if the C compiler supports fpos64_t.
?S:.
?C:HAS_FPOS64_T:
?C: This symbol will be defined if the C compiler supports fpos64_t.
?C:.
?H:#$d_fpos64_t HAS_FPOS64_T /**/
?H:.
?LINT:set d_fpos64_t
```

```
: check for fpos64_t
echo " "
echo "Checking to see if you have fpos64_t..." >&4
$cat >try.c <<EOCP
#include <stdio.h>
int main() { fpos64_t x = 7; }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have fpos64_t."
else
 val="$undef"
 echo "You do not have fpos64_t."
 case "$fpossize" in
 8) echo "(Your fpos_t is 64 bits, so you could use that.)" ;;
 esac
fi
$rm_try
set
 d_fpos64_t
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fpos64_t.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: stdchar.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:stdchar: contains Findhdr cppstdin cppminus rm
?MAKE: -pick add $@ %<
?S:stdchar:
?S: This variable conditionally defines STDCHAR to be the type of char
?S: used in stdio.h.  It has the values "unsigned char" or "char".
?S:.
```

```
?C:STDCHAR:
?C: This symbol is defined to be the type of char used in stdio.h.
?C: It has the values "unsigned char" or "char".
?C:.
?H:#define STDCHAR $stdchar /**/
?H:.
?F:!stdioh
:
 see what type of char stdio uses.
echo " "
?X: untangle the #include nest
echo '#include <stdio.h>' | $cppstdin $cppminus > stdioh
if $contains 'unsigned.*char.*_ptr;' stdioh >/dev/null 2>&1 ; then
 echo "Your stdio uses unsigned chars." >&4
 stdchar="unsigned char"
else
 echo "Your stdio uses signed chars." >&4
 stdchar="char"
fi
$rm -f stdioh
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/stdchar.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_dup2.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_dup2.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_dup2: Inlibc
?MAKE: -pick add $@ %<
?S:d_dup2:
?S: This variable conditionally defines HAS_DUP2 if dup2() is
?S: available to duplicate file descriptors.
?S:.
?C:HAS_DUP2 (DUP2):
?C: This symbol, if defined, indicates that the dup2 routine is
```

```
?C: available to duplicate file descriptors.
?C:.
?H:#$d_dup2 HAS_DUP2 /**/
?H:.
?LINT:set d_dup2
:
 see if dup2 exists
set dup2 d_dup2
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_dup2.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_pthread: Inhdr
?MAKE: -pick add $@ %<
?S:i_pthread:
?S: This variable conditionally defines the I_PTHREAD symbol,
?S: and indicates whether a C program should include <pthread.h>.
?S:.
?C:I_PTHREAD:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <pthread.h>.
?C:.
?H:#$i_pthread   I_PTHREAD /**/
?H:.
?LINT:set i_pthread
: see if POSIX threads are available
set pthread.h i_pthread
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/i_pthread.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_chsize.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_chsize.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_chsize: Inlibc
?MAKE: -pick add $@ %<
?S:d_chsize:
?S: This variable conditionally defines the CHSIZE symbol, which
?S: indicates to the C program that the chsize() routine is available
?S: to truncate files.  You might need a -lx to get this routine.
?S:.
?C:HAS_CHSIZE (CHSIZE):
?C: This symbol, if defined, indicates that the chsize
 routine is available
?C: to truncate files.  You might need a -lx to get this routine.
?C:.
?H:#$d_chsize HAS_CHSIZE  /**/
?H:.
?LINT:set d_chsize
: see if chsize exists
set chsize d_chsize
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_chsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endhostent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_endhostent_r endhostent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
```

```
?S:d_endhostent_r:
?S: This variable conditionally defines the HAS_ENDHOSTENT_R symbol,
?S: which indicates to the C program that the endhostent_r()
?S: routine is available.
?S:.
?S:endhostent_r_proto:
?S: This variable encodes the prototype of endhostent_r.
?S: It is zero if d_endhostent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endhostent_r
?S: is defined.
?S:.
?C:HAS_ENDHOSTENT_R:
?C: This symbol, if defined, indicates that the endhostent_r routine
?C: is
 available to endhostent re-entrantly.
?C:.
?C:ENDHOSTENT_R_PROTO:
?C: This symbol encodes the prototype of endhostent_r.
?C: It is zero if d_endhostent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endhostent_r
?C: is defined.
?C:.
?H:#$d_endhostent_r HAS_ENDHOSTENT_R /**/
?H:#define ENDHOSTENT_R_PROTO $endhostent_r_proto /**/
?H:.
?T:try hdrs d_endhostent_r_proto
: see if endhostent_r exists
set endhostent_r d_endhostent_r
eval $inlibc
case "$d_endhostent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_endhostent_r_proto:$usethreads" in
 ":define") d_endhostent_r_proto=define
  set d_endhostent_r_proto endhostent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_endhostent_r_proto" in
 define)
 case "$endhostent_r_proto" in
 "|0) try='int endhostent_r(struct hostent_data*);'
 ./protochk "$extern_C $try" $hdrs && endhostent_r_proto=I_D ;;
 esac
 case "$endhostent_r_proto" in
 "|0) try='void endhostent_r(struct
 hostent_data*);'
 ./protochk "$extern_C $try" $hdrs && endhostent_r_proto=V_D ;;
```

```
 esac
 case "$endhostent_r_proto" in
 "|0) d_endhostent_r=undef
  endhostent_r_proto=0
  echo "Disabling endhostent_r, cannot determine prototype." >&4 ;;
 * ) case "$endhostent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) endhostent_r_proto="REENTRANT_PROTO_$endhostent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "endhostent_r has no prototype, not using it." >&4 ;;
  esac
  d_endhostent_r=undef
  endhostent_r_proto=0
  ;;
 esac
 ;;
*) endhostent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_endhostent_r.U
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```
?RCS: $Id: d_time.U,v 3.0.1.2 1995/07/25 14:07:43 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_time.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:07:43  ram
?RCS: patch56: typo fix, sytem -> system
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:16:38  ram
?RCS: patch36: now uses new Typedef unit to compute type information (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:45  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?X: Maybe <sys/types.h> should be included?
?X:INC: i_systypes
?MAKE:d_time timetype: Csym Setvar Findhdr Myread Typedef
?MAKE: -pick
 add $@ %<
?S:d_time:
?S: This variable conditionally defines the HAS_TIME symbol, which indicates
?S: that the time() routine exists.  The time() routine is normally
?S: provided on UNIX systems.
?S:.
?S:timetype:
?S: This variable holds the type returned by time(). It can be long,
?S: or time_t on BSD sites (in which case <sys/types.h> should be
?S: included). Anyway, the type Time_t should be used.
?S:.
?C:HAS_TIME (TIMER):
?C: This symbol, if defined, indicates that the time() routine exists.
?C:.
?C:Time_t (TIMETYPE):
?C: This symbol holds the type returned by time(). It can be long,
?C: or time_t on BSD sites (in which case <sys/types.h> should be
?C: included).
?C:.
?H:#$d_time HAS_TIME  /**/
?H:#define Time_t $timetype  /* Time type */
?H:.
?LINT:set d_time
: see if time exists
echo " "
?X: MPE/iX needs this protection of hint values.
?X: See d_sterror.U for more explanation.
if test "X$d_time" = X -o X"$timetype" = X; then
   if set time val -f d_time; eval $csym; $val;
 then
  echo 'time() found.' >&4
  val="$define"
  rp="What is the type returned by time() on this system?"
  set time_t timetype long stdio.h sys/types.h
  eval $typedef_ask
   else
  echo 'time() not found, hope that will do.' >&4
  val="$undef"
  timetype='int';
   fi
   set d_time
   eval $setvar
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/d_time.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_attribut.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 2020, Raphael Manfredi, Karl Williamson
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_non_int_bitfields: \
    Myread Oldconfig cat cc ccflags Setvar compiler_warning rm_try
?MAKE: -pick add $@ %<
?S:d_non_int_bitfields:
?S: This variable conditionally defines HAS_NON_INT_BITFIELDS
?S: which indicates that the C compiler accepts struct bitfields of sizes
?S: that aren't 'int' or 'unsigned int'
?S:.
?C:HAS_NON_INT_BITFIELDS:
?C: This symbol, if defined, indicates that the C compiler accepts, without
?C: error or warning, struct bitfields
 that are declared with sizes other
?C: than plain 'int'; for example 'unsigned char' is accepted.
?C:.
?H:?%<:#$d_non_int_bitfields HAS_NON_INT_BITFIELDS /**/
?H:.
?LINT:set d_non_int_bitfields
?F:!try.out !try.c
: Look for non 'int'-sized bitfields
case "$d_non_int_bitfields" in
")
echo " " >&4
echo "Checking whether your compiler can handle struct bitfields that aren't 'int' or 'unsigned int' ..." >&4
$cat >try.c <<'EOCP'
#include <stdio.h>
struct foo {
   unsigned char byte:1;
   unsigned short halfword:1;
} bar;
EOCP
if $cc $ccflags -c try.c >try.out 2>&1 ; then
 if $compiler_warning try.out >/dev/null 2>&1; then
```

```
  echo "Your C compiler doesn't support struct bitfields that aren't 'int' or 'unsigned int'." >&4
  val="$undef"
 else
  echo "Your C compiler supports struct bitfields besides 'int' and 'unsigned int'." >&4
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand struct bitfields that aren't 'int' or 'unsigned int' at all." >&4
 val="$undef"
fi
;;
*)
 val="$d_non_int_bitfields" ;;
esac
set d_non_int_bitfields
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_bitfield.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_stat.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_stat.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:28  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_stat: Inlibc
?MAKE: -pick add $@ %<
?S:d_stat:
?S: This variable conditionally defines HAS_STAT if stat() is
?S: available to get file status.
?S:.
?C:HAS_STAT (STAT):
?C: This symbol, if defined, indicates that the stat routine is
?C: available to get file status.
?C:.
?H:#$d_stat HAS_STAT /**/
```

```
?H:.
?LINT:set d_stat
: see if stat exists
set
 stat d_stat
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_stat.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_safebcpy.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  15:40:58  ram
?RCS: patch61: improved overlapping copy check
?RCS: patch61: comfort them if they have memmove
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.3  1995/07/25  13:58:40  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.2  1995/01/11  15:29:23  ram
?RCS: patch45: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:49:03
  ram
?RCS: patch23: ensure string is not optimized in read-only memory (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_safebcpy: cat d_bcopy +cc +optimize +ccflags +ldflags +libs rm \
 d_memmove i_memory i_stdlib i_string i_unistd Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_safebcpy:
?S: This variable conditionally defines the HAS_SAFE_BCOPY symbol if
?S: the bcopy() routine can do overlapping copies.
?S:.
```

```
?C:HAS_SAFE_BCOPY (SAFE_BCOPY):
?C: This symbol, if defined, indicates that the bcopy routine is available
?C: to copy potentially overlapping memory blocks. Otherwise you should
?C: probably use memmove() or memcpy(). If neither is defined, roll your
?C: own version.
?C:.
?H:#$d_safebcpy HAS_SAFE_BCOPY /**/
?H:.
?F:!safebcpy
?LINT: set d_safebcpy
: can bcopy handle overlapping blocks?
?X: assume the worst
val="$undef"
case "$d_bcopy" in
"$define")
 echo " "
 echo "Checking to see if your bcopy() can do overlapping
 copies..." >&4
 $cat >foo.c <<EOCP
#$i_memory I_MEMORY
#$i_stdlib I_STDLIB
#$i_string I_STRING
#$i_unistd I_UNISTD
EOCP
 $cat >>foo.c <<'EOCP'
#include <stdio.h>
#ifdef I_MEMORY
#  include <memory.h>
#endif
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#ifdef I_STRING
#  include <string.h>
#else
#  include <strings.h>
#endif
#ifdef I_UNISTD
#  include <unistd.h>  /* Needed for NetBSD */
#endif
int main()
{
char buf[128], abc[128];
char *b;
int len;
int off;
int align;
```

```
?X: Copy "abcde..." string to char abc[] so that gcc doesn't
?X: try to store the string in read-only memory.
bcopy("abcdefghijklmnopqrstuvwxyz0123456789", abc, 36);

for (align = 7; align >= 0; align--) {
 for (len = 36; len; len--) {
  b = buf+align;
  bcopy(abc, b, len);
  for (off = 1; off <= len; off++) {
   bcopy(b, b+off, len);
   bcopy(b+off, b, len);
   if (bcmp(b, abc, len))
    exit(1);
  }
 }
}
exit(0);
}
EOCP
 if $cc $optimize $ccflags $ldflags \
      -o safebcpy foo.c $libs >/dev/null 2>&1; then
  if ./safebcpy
 2>/dev/null; then
   echo "Yes, it can."
   val="$define"
  else
   echo "It can't, sorry."
   case "$d_memmove" in
   "$define") echo "But that's Ok since you have memmove()." ;;
   esac
  fi
 else
  echo "(I can't compile the test program, so we'll assume not...)"
  case "$d_memmove" in
  "$define") echo "But that's Ok since you have memmove()." ;;
  esac
 fi
 ;;
esac
$rm -f foo.* safebcpy core
set d_safebcpy
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_safebcpy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtoq: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtoq:
?S: This variable conditionally defines the HAS_STRTOQ symbol, which
?S: indicates to the C program that the strtoq() routine is available.
?S:.
?C:HAS_STRTOQ:
?C: This symbol, if defined, indicates that the strtoq routine is
?C: available to convert strings to long longs (quads).
?C:.
?H:#$d_strtoq HAS_STRTOQ  /**/
?H:.
?LINT:set d_strtoq
: see if strtoq exists
set strtoq d_strtoq
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strtoq.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorlib.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorlib.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:d_vendorlib vendorlib vendorlibexp installvendorlib vendorlib_stem: \
 Getfile Setprefixvar Oldconfig Prefixit package vendorprefix sed \
 installstyle version
?MAKE: -pick add $@ %<
?Y:TOP
```

```
?S:vendorlib:
?S: This variable contains the eventual value of the VENDORLIB symbol,
?S: which is the name of the private library for this package.
?S: The standard
 distribution will put nothing in this directory.
?S: Vendors who distribute perl may wish to place their own
?S: modules in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorlibexp:
?S: This variable is the ~name expanded version of vendorlib, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorlib=''
?S:installvendorlib:
?S: This variable is really the same as vendorlibexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?S:d_vendorlib:
?S: This variable conditionally defines PERL_VENDORLIB.
?S:.
?S:vendorlib_stem:
?S: This variable is $vendorlibexp with any trailing version-specific component
?S: removed.  The elements in inc_version_list (inc_version_list.U) can
?S: be tacked onto this variable to generate a list of directories to search.
?S:.
?C:PERL_VENDORLIB:
?C: If defined, this symbol contains
 the name of a private library.
?C: The library is private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.  The program
?C: should be prepared to do ~ expansion.
?C: The standard distribution will put nothing in this directory.
?C: Vendors who distribute perl may wish to place their own
?C: modules in this directory with
?C:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?C: or equivalent.  See INSTALL for details.
?C:.
?C:PERL_VENDORLIB_EXP:
?C: This symbol contains the ~name expanded version of VENDORLIB, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?C:PERL_VENDORLIB_STEM:
?C: This define is PERL_VENDORLIB_EXP with any trailing version-specific component
?C: removed.  The elements in inc_version_list (inc_version_list.U) can
?C: be tacked onto this variable to generate a list of directories to search.
```

```
?C:.
?H:#$d_vendorlib PERL_VENDORLIB "$vendorlib"  /**/
?H:#$d_vendorlib PERL_VENDORLIB_EXP
 "$vendorlibexp"  /**/
?H:#$d_vendorlib PERL_VENDORLIB_STEM "$vendorlib_stem"  /**/
?H:.
?T:prog
?LINT:change prefixvar
?LINT:set installvendorlib
: Set the vendorlib variables
case "$vendorprefix" in
") d_vendorlib="$undef"
 vendorlib="
 vendorlibexp="
 ;;
*) d_vendorlib="$define"
 : determine where vendor-supplied modules go.
 : Usual default is /usr/local/lib/perl5/vendor_perl/$version
 case "$vendorlib" in
 ")
?X:  remove any trailing -3.0 or other version identification
  prog=`echo $package | $sed 's/-*[0-9.]*$//'`
  case "$installstyle" in
  *lib/perl5*) dflt=$vendorprefix/lib/$package/vendor_$prog/$version ;;
  *)      dflt=$vendorprefix/lib/vendor_$prog/$version ;;
  esac
  ;;
 *) dflt="$vendorlib"
  ;;
 esac
 fn=d~+
 rp='Pathname for the vendor-supplied library files?'
 . ./getfile
 vendorlib="$ans"
 vendorlibexp="$ansexp"
 ;;
esac
vendorlib_stem=`echo "$vendorlibexp" | sed "s,/$version$,,"`
prefixvar=vendorlib
. ./installprefix
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/vendorlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: netdbtype.U,v $
?RCS:
```

```
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: netdbtype.U,v $
?RCS:
?MAKE:netdb_host_type netdb_hlen_type netdb_name_type netdb_net_type: \
 Protochk Oldconfig Myread cat \
 d_gethbyaddr d_gethbyname d_getnbyaddr \
 i_niin i_netdb i_unistd d_socket sizetype extern_C
?MAKE: -pick add $@ %<
?S:netdb_host_type:
?S: This variable holds the type used for the 1st argument to
?S: gethostbyaddr().  Usually, this is char * or void *,  possibly
?S: with or without a const prefix.
?S: This is only useful if you have gethostbyaddr(), naturally.
?S:.
?S:netdb_hlen_type:
?S: This variable holds the type used for the 2nd argument to
?S: gethostbyaddr().  Usually,
 this is int or size_t or unsigned.
?S: This is only useful if you have gethostbyaddr(), naturally.
?S:.
?S:netdb_name_type:
?S: This variable holds the type used for the argument to
?S: gethostbyname().  Usually, this is char * or const char *.
?S: This is only useful if you have gethostbyname(), naturally.
?S:.
?S:netdb_net_type:
?S: This variable holds the type used for the 1st argument to
?S: getnetbyaddr().  Usually, this is int or long.
?S: This is only useful if you have getnetbyaddr(), naturally.
?S:.
?C:Netdb_host_t:
?C: This symbol holds the type used for the 1st argument
?C: to gethostbyaddr().
?C:.
?C:Netdb_hlen_t:
?C: This symbol holds the type used for the 2nd argument
?C: to gethostbyaddr().
?C:.
?C:Netdb_name_t:
?C: This symbol holds the type used for the argument to
?C: gethostbyname().
?C:.
```

```
?C:Netdb_net_t:
?C: This symbol holds the type used for the 1st argument to
?C: getnetbyaddr().
?C:.
?H:#define Netdb_host_t  $netdb_host_type /**/
?H:#define Netdb_hlen_t  $netdb_hlen_type
 /**/
?H:#define Netdb_name_t  $netdb_name_type /**/
?H:#define Netdb_net_t  $netdb_net_type /**/
?H:.
?T:xxx yyy try hdrs
@if netdb_host_type || Netdb_host_t || netdb_hlen_type || Netdb_hlen_t
: check for type of arguments to gethostbyaddr.
if test "X$netdb_host_type" = X -o "X$netdb_hlen_type" = X; then
 case "$d_gethbyaddr" in
 $define)
  $cat <<EOM

Checking to see what type of arguments are accepted by gethostbyaddr().
EOM
  hdrs="$define sys/types.h
   $d_socket sys/socket.h
   $i_niin netinet/in.h
   $i_netdb netdb.h
   $i_unistd unistd.h"
  : The first arg can 'char *' or 'void *'
  : The second arg is some of integral type
  for xxx in in_addr_t 'const void *' 'const char *' 'void *' 'char *'; do
   for yyy in size_t long int; do
    case "$netdb_host_type" in
    ") try="$extern_C struct hostent *gethostbyaddr($xxx, $yyy, int);"
     if ./protochk "$try" $hdrs; then
      echo "Your system accepts $xxx for the first arg."
      echo "...and $yyy for the second arg."
      netdb_host_type="$xxx"
      netdb_hlen_type="$yyy"
     fi
     ;;
    esac
   done
  done
  :
 In case none of those worked, prompt the user.
  case "$netdb_host_type" in
  ") rp='What is the type for the 1st argument to gethostbyaddr?'
   dflt='char *'
   . ./myread
   netdb_host_type=$ans
```

```
  rp='What is the type for the 2nd argument to gethostbyaddr?'
  dflt="$sizetype"
  . ./myread
  netdb_hlen_type=$ans
  ;;
 esac
 ;;
*) : no gethostbyaddr, so pick harmless defaults
 netdb_host_type='char *'
 netdb_hlen_type="$sizetype"
 ;;
esac
# Remove the "const" if needed. -- but then we'll have a
# prototype clash!
# netdb_host_type=`echo "$netdb_host_type" | sed 's/^const //'`
fi
@end

@if netdb_name_type || Netdb_name_t
: check for type of argument to gethostbyname.
if test "X$netdb_name_type" = X ; then
 case "$d_gethbyname" in
 $define)
  $cat <<EOM

Checking to see what type of argument is accepted by gethostbyname().
EOM
  hdrs="$define sys/types.h
   $d_socket sys/socket.h
   $i_niin
 netinet/in.h
   $i_netdb netdb.h
   $i_unistd unistd.h"
  for xxx in "const char *" "char *"; do
   case "$netdb_name_type" in
   ") try="$extern_C struct hostent *gethostbyname($xxx);"
    if ./protochk "$try" $hdrs; then
     echo "Your system accepts $xxx."
     netdb_name_type="$xxx"
    fi
    ;;
   esac
  done
  : In case none of those worked, prompt the user.
  case "$netdb_name_type" in
  ") rp='What is the type for the 1st argument to gethostbyname?'
   dflt='char *'
   . ./myread
```

```
  netdb_name_type=$ans
  ;;
 esac
 ;;
*) : no gethostbyname, so pick harmless default
 netdb_name_type='char *'
 ;;
esac
fi
@end

@if netdb_net_type || Netdb_net_t
: check for type of 1st argument to getnetbyaddr.
if test "X$netdb_net_type" = X ; then
 case "$d_getnbyaddr" in
 $define)
  $cat <<EOM

Checking to see what type of 1st argument is accepted by getnetbyaddr().
EOM
  hdrs="$define sys/types.h
   $d_socket sys/socket.h
   $i_niin netinet/in.h
   $i_netdb netdb.h
   $i_unistd
 unistd.h"
  for xxx in in_addr_t "unsigned long" long "unsigned int" int; do
   case "$netdb_net_type" in
   ") try="$extern_C struct netent *getnetbyaddr($xxx, int);"
    if ./protochk "$try" $hdrs; then
     echo "Your system accepts $xxx."
     netdb_net_type="$xxx"
    fi
    ;;
   esac
  done
  : In case none of those worked, prompt the user.
  case "$netdb_net_type" in
  ") rp='What is the type for the 1st argument to getnetbyaddr?'
   dflt='long'
   . ./myread
   netdb_net_type=$ans
   ;;
  esac
  ;;
 *) : no getnetbyaddr, so pick harmless default
  netdb_net_type='long'
  ;;
```

```
 esac
fi
@end
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/netdbtype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
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?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_gethent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_gethent: Inlibc
?MAKE: -pick add $@ %<
?S:d_gethent:
?S: This variable conditionally defines HAS_GETHOSTENT if gethostent() is
?S: available to dup file descriptors.
?S:.
?C:HAS_GETHOSTENT (GETHOSTENT):
?C: This symbol, if defined, indicates that the gethostent routine is
?C: available to lookup host names in some data base or other.
?C:.
?H:#$d_gethent HAS_GETHOSTENT  /**/
?H:.
?LINT:set
 d_gethent
: see if gethostent exists
set gethostent d_gethent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_gethent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
```

```
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_sockatmarkproto: Hasproto d_socket
?MAKE: -pick add $@ %<
?S:d_sockatmarkproto:
?S: This variable conditionally defines the HAS_SOCKATMARK_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the sockatmark() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_SOCKATMARK_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the sockatmark() function.  Otherwise, it is up
?C: to the program to supply one.  A good
 guess is
?C:  extern int sockatmark(int);
?C:.
?H:#$d_sockatmarkproto HAS_SOCKATMARK_PROTO /**/
?H:.
?LINT:set d_sockatmarkproto
: see if prototype for sockatmark is available
echo " "
set d_sockatmarkproto sockatmark $d_socket sys/socket.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_sockatmarkproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: myhostname.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:15:55  ram
```

```
?RCS: patch61: improved hostname lookup by using ypmatch when NIS is used
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:25:43  ram
?RCS: patch36: call ./xenix explicitly instead of relying on PATH
?RCS: patch36: now uses new Tr unit to convert to/from lowercase
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:06:20  ram
?RCS: patch30: now a little more clever for domain name guessing
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:18  ram
?RCS:
 Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:myhostname phostname mydomain: contains sed test Myread Oldconfig \
 Guess Loc awk echo sort uniq +usrinc rm hostcat Tr osname
?MAKE: -pick add $@ %<
?S:myhostname (hostname):
?S: This variable contains the eventual value of the MYHOSTNAME symbol,
?S: which is the name of the host the program is going to run on.
?S: The domain is not kept with hostname, but must be gotten from mydomain.
?S: The dot comes with mydomain, and need not be supplied by the program.
?S:.
?S:mydomain:
?S: This variable contains the eventual value of the MYDOMAIN symbol,
?S: which is the domain of the host the program is going to run on.
?S: The domain must be appended to myhostname to form a complete host name.
?S: The dot comes with mydomain, and need not be supplied by the program.
?S:.
?S:phostname:
?S: This variable contains the eventual value of the PHOSTNAME symbol,
?S: which is a command that can be fed to popen() to get the host name.
?S: The program
 should probably not presume that the domain is or isn't
?S: there already.
?S:.
?C:MYHOSTNAME (HOSTNAME):
?C: This symbol contains name of the host the program is going to run on.
?C: The domain is not kept with hostname, but must be gotten from MYDOMAIN.
?C: The dot comes with MYDOMAIN, and need not be supplied by the program.
?C: If gethostname() or uname() exist, MYHOSTNAME may be ignored. If MYDOMAIN
?C: is not used, MYHOSTNAME will hold the name derived from PHOSTNAME.
?C:.
?C:MYDOMAIN:
?C: This symbol contains the domain of the host the program is going to
?C: run on.  The domain must be appended to HOSTNAME to form a complete
?C: host name.  The dot comes with MYDOMAIN, and need not be supplied by
?C: the program.  If the host name is derived from PHOSTNAME, the domain
?C: may or may not already be there, and the program should check.
```

```
?C:.
?H:#define MYHOSTNAME "$myhostname"  /**/
?H:#define MYDOMAIN "$mydomain"  /**/
?H:.
?T:cont i tans tmp_re file
: now get the host name
echo
 " "
echo "Figuring out host name..." >&4
case "$myhostname" in
") cont=true
 echo 'Maybe "hostname" will work...'
 if tans=`sh -c hostname 2>&1` ; then
  myhostname=$tans
  phostname=hostname
  cont=''
 fi
 ;;
*) cont='';;
esac
if $test "$cont"; then
 if ./xenix; then
  echo 'Oh, dear.  Maybe "/etc/systemid" is the key...'
  if tans=`cat /etc/systemid 2>&1` ; then
   myhostname=$tans
   phostname='cat /etc/systemid'
   echo "Whadyaknow.  Xenix always was a bit strange..."
   cont=''
  fi
 elif $test -r /etc/systemid; then
  echo "(What is a non-Xenix system doing with /etc/systemid?)"
 fi
fi
if $test "$cont"; then
 echo 'No, maybe "uuname -l" will work...'
 if tans=`sh -c 'uuname -l' 2>&1` ; then
  myhostname=$tans
  phostname='uuname -l'
 else
  echo 'Strange.  Maybe "uname -n" will work...'
  if tans=`sh -c 'uname -n' 2>&1` ; then
   myhostname=$tans
   phostname='uname -n'
  else
   echo 'Oh well, maybe I can mine it out of whoami.h...'
   if tans=`sh -c $contains' sysname $usrinc/whoami.h'
 2>&1` ; then
    myhostname=`echo "$tans" | $sed 's/^.*"\(.*\)"/\1/'`
```

```
    phostname="sed -n -e ""/sysname/s/^.*\"\\(.*\\)\"/\1/{"" -e p -e q -e '}' <$usrinc/whoami.h"
   else
    case "$myhostname" in
    ") echo "Does this machine have an identity crisis or something?"
     phostname=";;
    *)
     echo "Well, you said $myhostname before..."
     phostname='echo $myhostname';;
    esac
   fi
  fi
 fi
fi
case "$myhostname" in
") myhostname=noname ;;
esac
: you do not want to know about this
set $myhostname
myhostname=$1

: verify guess
if $test "$myhostname" ; then
 dflt=y
 rp='Your host name appears to be "'$myhostname'".' Right?"
 . ./myread
 case "$ans" in
 y*) ;;
 *) myhostname=";;
 esac
fi

: bad guess or no guess
while $test "X$myhostname" = X ; do
 dflt="
 rp="Please type the (one word) name of your host:"
 . ./myread
 myhostname="$ans"
done

: translate upper to lower if necessary
case "$myhostname" in
*[A-Z]*)
 echo "(Normalizing case in your host name)"
 myhostname=`echo
 $myhostname | ./tr '[A-Z]' '[a-z]'`
 ;;
esac
```

```
?X: Do not ask for domain name if this is not used later on. In that
?X: case, the hostname may keep its domain name, but it doesn't matter.
@if MYDOMAIN || mydomain
case "$myhostname" in
*.*)
 dflt=`expr "X$myhostname" : "X[^.]*\(\..*\)"`
 myhostname=`expr "X$myhostname" : "X\([^.]*\)\."`
 echo "(Trimming domain name from host name--host name is now $myhostname)"
 ;;
*) case "$mydomain" in
 ")
?X:
?X: There is currently no way to say we do not want hostcat if mydomain is not
?X: used. One way to achieve that would be to put that code in a mydomain.U
?X: unit. However, we want to stick the sanity checks right after the domain
?X: name computation, or if none is done, right after the hostname computation.
?X:
  {
?X: If we use NIS, try ypmatch.
   test "X$hostcat" = "Xypcat hosts" &&
   ypmatch "$myhostname" hosts 2>/dev/null |\
    $sed -e 's/[  ]*#.*//; s/$/ /' > hosts && \
   $test -s hosts
  } || {
?X: Extract only
 the relevant hosts, reducing file size,
?X: remove comments, insert trailing space for later use.
        $hostcat | $sed -n -e "s/[  ]*#.*//; s/\$/ /
     /[  ]$myhostname[ . ]/p" > hosts
  }
  tmp_re="[ . ]"
  $test x`$awk "/[0-9].*[  ]$myhostname$tmp_re/ { sum++ }
        END { print sum }" hosts` = x1 || tmp_re="[  ]"
  dflt=.`$awk \
  "/[0-9].*[  ]$myhostname$tmp_re/ {for(i=2; i<=NF;i++) print \\\$i}" \
   hosts | $sort | $uniq | \
   $sed -n -e "s/$myhostname\.\([-a-zA-Z0-9_.]\)/\1/p"`
  case `$echo X$dflt` in
  X*\ *) echo "(Several hosts in /etc/hosts matched hostname)"
   dflt=.
   ;;
?X: There is no /etc/hosts on os390
  X.)
   if $test -f /etc/hosts; then
    echo "(You do not have fully-qualified names in /etc/hosts)"
   else
    echo "(I cannot locate a hosts database anywhere)"
   fi
```

```
  ;;
  esac
  case "$dflt" in
  .)
   tans=`./loc resolv.conf X /etc /usr/etc`
   if $test -f "$tans"; then
    echo "(Attempting domain name extraction from $tans)"
?X: Look for either a search
 or a domain directive.
    dflt=.`$sed -n -e 's/ / /g' \
      -e 's/^search  *\([^ ]*\).*/\1/p' $tans \
      | ./tr '[A-Z]' '[a-z]' 2>/dev/null`
    case "$dflt" in
    .) dflt=.`$sed -n -e 's/ / /g' \
         -e 's/^domain  *\([^ ]*\).*/\1/p' $tans \
         | ./tr '[A-Z]' '[a-z]' 2>/dev/null`
      ;;
    esac
   fi
   ;;
  esac
  case "$dflt" in
  .) echo "(No help from resolv.conf either -- attempting clever guess)"
   dflt=.`sh -c domainname 2>/dev/null`
   case "$dflt" in
   ") dflt='.';;
   .nis.*|.yp.*|.main.*) dflt=`echo $dflt | $sed -e 's/^\.[^.]*//'`;;
   esac
   ;;
  esac
  case "$dflt$osname" in
  .os390)
   file="//'SYS1.TCPPARMS(TCPDATA)'"
   echo "(Attempting domain name extraction from $file)"
   dflt=.`awk '/^DOMAINORIGIN/ {print $2}' "$file" 2>/dev/null`
   ;;
   esac
  case "$dflt" in
  .) echo "(Lost all hope -- silly guess then)"
   dflt='.nonet'
   ;;
  esac
  $rm -f hosts
  ;;
 *) dflt="$mydomain";;
 esac;;
esac
echo " "
```

```
rp="What is your domain name?"
.
 ./myread
tans="$ans"
case "$ans" in
") ;;
.*) ;;
*) tans=".$tans";;
esac
mydomain="$tans"

: translate upper to lower if necessary
case "$mydomain" in
*[A-Z]*)
 echo "(Normalizing case in your domain name)"
 mydomain=`echo $mydomain | ./tr '[A-Z]' '[a-z]'`
 ;;
esac

@end
: a little sanity check here
case "$phostname" in
") ;;
*)
 case `$phostname | ./tr '[A-Z]' '[a-z]'` in
 $myhostname$mydomain|$myhostname) ;;
 *)
  case "$phostname" in
  sed*)
   echo "(That doesn't agree with your whoami.h file, by the way.)"
   ;;
  *)
   echo "(That doesn't agree with your $phostname command, by the way.)"
   ;;
  esac
 ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/myhostname.U
No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:

```
?MAKE:d_lgamma_r: Inlibc
?MAKE: -pick add $@ %<
?S:d_lgamma_r:
?S: This variable conditionally defines the HAS_LGAMMA_R symbol, which
?S: indicates to the C program that the lgamma_r() routine is available
?S: for the log gamma function, without using the global signgam variable.
?S:.
?C:HAS_LGAMMA_R:
?C: This symbol, if defined, indicates that the lgamma_r routine is
?C: available to do the log gamma function without using the global
?C: signgam variable.
?C:.
?H:#$d_lgamma_r HAS_LGAMMA_R  /**/
?H:.
?LINT:set d_lgamma_r
: see if lgamma_r exists
set lgamma_r d_lgamma_r
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_lgamma_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: usenm.U,v 3.0.1.1 1997/02/28 16:26:40 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: usenm.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:26:40  ram
?RCS: patch61: don't use nm with the GNU C library
?RCS: patch61: added support for Linux shared libs
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:usenm runnm nm_opt nm_so_opt: cat test Myread Oldconfig myuname grep \
 nm d_gnulibc osname egrep rsrc
?MAKE: -pick add $@ %<
?S:usenm:
?S: This variable contains 'true' or 'false' depending
```

```
 whether the
?S: nm extraction is wanted or not.
?S:.
?S:runnm:
?S: This variable contains 'true' or 'false' depending whether the
?S: nm extraction should be performed or not, according to the value
?S: of usenm and the flags on the Configure command line.
?S:.
?S:nm_opt:
?S: This variable holds the options that may be necessary for nm.
?S:.
?S:nm_so_opt:
?S: This variable holds the options that may be necessary for nm
?S: to work on a shared library but that can not be used on an
?S: archive library.  Currently, this is only used by Linux, where
?S: nm --dynamic is *required* to get symbols from an ELF library which
?S: has been stripped, but nm --dynamic is *fatal* on an archive library.
?S: Maybe Linux should just always set usenm=false.
?S:.
: see if nm is to be used to determine whether a symbol is defined or not
?X: If there is enough inquiries, it might be worth to wait for the nm
?X: extraction. Otherwise, the C compilations might be a better deal.
?X:
?X: Don't bother if we're
 using GNU libc -- skimo
?LINT:extern PASE
case "$usenm" in
")
 dflt="
 case "$d_gnulibc" in
 "$define")
  echo " "
  echo "nm probably won't work on the GNU C Library." >&4
  dflt=n
  ;;
 esac
 case "$dflt" in
 ")
  if $test "$osname" = aix -a "X$PASE" != "Xdefine" -a ! -f /lib/syscalls.exp; then
   echo " "
   echo "Whoops!  This is an AIX system without /lib/syscalls.exp!" >&4
   echo "'nm' won't be sufficient on this system." >&4
   dflt=n
  fi
  ;;
 esac
 case "$dflt" in
 ") dflt=`$egrep 'inlibc|csym' $rsrc/Configure | wc -l 2>/dev/null`
```

```
  if $test $dflt -gt 20; then
   dflt=y
  else
   dflt=n
  fi
  ;;
 esac
 ;;
*)
 case "$usenm" in
 true|$define) dflt=y;;
 *) dflt=n;;
 esac
 ;;
esac
$cat <<EOM

I can use $nm to extract the symbols from your C libraries. This
is a time consuming task which may generate huge output on the disk (up
to 3 megabytes) but that should make the symbols extraction faster. The
alternative is to skip the 'nm' extraction part and to compile a small
test
 program instead to determine whether each symbol is present. If
you have a fast C compiler and/or if your 'nm' output cannot be parsed,
this may be the best solution.

You probably shouldn't let me use 'nm' if you are using the GNU C Library.

EOM
rp="Shall I use $nm to extract C symbols from the libraries?"
. ./myread
case "$ans" in
[Nn]*) usenm=false;;
*) usenm=true;;
esac

?X: Name extraction is to be run if 'nm' usage is wanted and if no -r flag
?X: was provided to configure (in which case we simply re-use the previous
?X: values).
runnm=$usenm
case "$reuseval" in
true) runnm=false;;
esac

: nm options which may be necessary
case "$nm_opt" in
") if $test -f /mach_boot; then
  nm_opt=" # Mach
```

```
 elif $test -d /usr/ccs/lib; then
  nm_opt='-p' # Solaris (and SunOS?)
 elif $test -f /dgux; then
  nm_opt='-p' # DG-UX
 elif $test -f /lib64/rld; then
  nm_opt='-p' # 64-bit Irix
 else
  nm_opt=''
 fi;;
esac

: nm options which may be necessary for shared libraries but illegal
: for archive
 libraries.  Thank you, Linux.
case "$nm_so_opt" in
'') case "$myuname" in
 *linux*|gnu*)
  if $nm --help | $grep 'dynamic' > /dev/null 2>&1; then
   nm_so_opt='--dynamic'
  fi
  ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/usenm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: mailfile.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: mailfile.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:24:57  ram
?RCS: patch36: the Loc unit was missing from the dependency line
?RCS:
?RCS: Revision 3.0.1.1  1993/12/15  08:22:08  ram
?RCS: patch15: now also looks under /var/mail for BSD/386
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:11  ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:mailfile: Myread Oldconfig Filexp Loc
?MAKE: -pick add $@ %<
?S:mailfile:
?S: This variable contains
 the eventual value of the MAILFILE symbol,
?S: which contains an interpretable name of the mail spool file for the
?S: current user.
?S:.
?C:MAILFILE:
?C: This symbol contains the interpretable name of the mail spool file
?C: for the current user.  The program must be prepared to substitute
?C: the HOME directory for %~, and the login id for %L.
?C:.
?H:#define MAILFILE "$mailfile"  /**/
?H:.
: determine where mail is spooled
case "$mailfile" in
")
 dflt=`./loc . XXX /usr/spool/mail /usr/mail /var/mail`
 case "$dflt" in
 XXX) dflt='%~/mailbox';;
 *) dflt="$dflt/%L";;
 esac
 ;;
*)  dflt="$mailfile"
 ;;
esac
cat <<'EOM'

In the following question, you may use %~ to represent the user's home
directory, and %L to represent a users name.

EOM
rp='In which file is yet-to-be-read mail spooled? (~name ok)'
. ./myread
mailfile=`./filexp "$ans"`
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/mailfile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: shm_for.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: shm_for.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:28:37  ram
?RCS: patch36: call ./Cppsym explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:shm_for shm_att shm_lim: Cppsym Myread ipc uname
?MAKE: -pick add $@ %<
?S:shm_for:
?S: This variable tells us the type of machine we're expecting the
?S: shared memory code to run on.  The value is available to C
 programs
?S: in the C_SHM_FOR manifest.
?S:.
?S:shm_att:
?S: This variable tells us where a shared memory segment should be
?S: attached.  Good values are HIGH, LOW, and ZERO.
?S:.
?S:shm_lim:
?S: This variable tells us if shared memory attached HIGH should
?S: have an upper limit.
?S:.
?X: ----------------------------------------------------------
?X: It's a potential lose to define anything beginning with SHM...
?X: At least we can think that S_ stands for "String version of ..." -- HMS
?X: ----------------------------------------------------------
?C:S_SHM_FOR ~ %<:
?C: This symbol identifies what we chose for the target system's
?C: default shared memory configuration parameters.
?C:.
?C:S_SHM_ATT ~ %<:
?C: This symbol holds the default "place" to attach shared memory.
?C: Values are "HIGH", "ZERO", and "LOW".
?C:.
?C:S_SHM_LIM ~ %<:
?C: This symbol holds the default upper bound address limit if shared
?C: memory is attached HIGH.  If zero, there is no upper limit.
?C:.
?H:?%<:#ifdef
 SERVE_SHM
?H:?%<:#define S_SHM_FOR "$shm_for"
```

```
?H:?%<:#define S_SHM_ATT "$shm_att"
?H:?%<:#define S_SHM_LIM "$shm_lim"
?H:?%<:#endif
?H:.
?W:%<:S_SHM_FOR S_SHM_ATT S_SHM_LIM
: see how to attach shared memory
echo " "
echo "Deciding how to attach shared memory..." >&4

case "$ipc" in
shm)
 shm_for='Default case'
 shm_att='HIGH'
 shm_lim='0x0'
 if ./Cppsym tower32 tower32_600; then
  echo "NCR Towers are usually normal..."
  : echo "Oh, an NCR Tower."
  : This works for the 600
  shm_for='NCR Tower 32'
  shm_att='LOW'
 else
  case "$uname" in
  */uname)
   case "`uname -m`" in
   ACS??68*)
    echo "Oh, an Altos 3068."
    shm_for='Altos 3068:'
    shm_lim='0x800000'
    ;;
    esac
    ;;
  *)
   echo "Looks normal to me..."
   ;;
  esac
 fi

 dflt="$shm_for"
 rp='Description of shared memory configuration?'
 . ./myread
 shm_for="$ans"

 dflt="$shm_att"
 rp='Where should shared memory be attached?'
 . ./myread
 shm_att="$ans"

 case "$shm_att" in
```

```
 HIGH)
  dflt="$shm_lim"
  rp='What is
 the upper address limit for shared memory?'
  . ./myread
  shm_lim="$ans"
  ;;
 *)
  shm_lim="
  ;;
 esac
 ;;

*)
 echo "but you aren't using shared memory so I won't bother." >&4
 shm_for='NOT CONFIGURED'
 shm_att='NONE'
 shm_lim='-1'
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/shm_for.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_round: Inlibc
?MAKE: -pick add $@ %<
?S:d_round:
?S: This variable conditionally defines the HAS_ROUND symbol, which
?S: indicates to the C program that the round() routine is available.
?S:.
?C:HAS_ROUND:
?C: This symbol, if defined, indicates that the round routine is
?C: available to round to nearest integer, away from zero.
?C:.
?H:#$d_round HAS_ROUND  /**/
?H:.
?LINT:set d_round
: see if round exists
set round d_round
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/perl/d_round.U
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```
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?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: Original author Jarkko Hietaniemi <jhi@iki.fi>
?RCS: Merged into dist by Andy Dougherty  July 13, 1998
?RCS:
?MAKE:trnl: Nothing
?MAKE: -pick add $@ %<
?S:trnl:
?S: This variable contains the value to be passed to the tr(1)
?S: command to transliterate a newline.  Typical values are
?S: '\012' and '\n'.  This is needed for EBCDIC systems where
?S: newline is not necessarily '\012'.
?S:.
?T: DJGPP
: Find the appropriate value for a newline for tr
?X: We can't
 use $tr since that would cause a circular dependency via Myread
?X: dos djgpp uses '\015\012', but reportedly is happy with '\012' in the
?X: tr command.  I don't know why it passes the '\n' test but later
?X: refuses to work correctly with it.  --AD  6/14/98
if test -n "$DJGPP"; then
    trnl='\012'
fi
if test X"$trnl" = X; then
 case "`echo foo | tr '\n' x 2>/dev/null`" in
 foox) trnl='\n' ;;
 esac
fi
if test X"$trnl" = X; then
 case "`echo foo | tr '\012' x 2>/dev/null`" in
 foox) trnl='\012' ;;
 esac
fi
if test X"$trnl" = X; then
    case "`echo foo | tr '\r\n' xy 2>/dev/null`" in
```

```
	fooxy) trnl='\n\r' ;;
	esac
fi
if test X"$trnl" = X; then
 cat <<EOM >&2

$me: Fatal Error: cannot figure out how to translate newlines with 'tr'.

EOM
 exit 1
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/trnl.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_grp.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:20  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_grp: Inhdr
?MAKE: -pick add $@ %<
?S:i_grp:
?S: This variable conditionally defines the I_GRP symbol, and indicates
?S: whether a C program should include <grp.h>.
?S:.
?C:I_GRP:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <grp.h>.
?C:.
?H:#$i_grp I_GRP  /**/
?H:.
?LINT:set i_grp
: see if this is an grp system
set grp.h i_grp
eval $inhdr
```

Found
 in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_grp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: spitshell.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: spitshell.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  16:22:12  ram
?RCS: patch61: removed useless chatter as this is now done very early
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:37:01  ram
?RCS: patch45: use 'test -f' instead of 'test -r' for exec-only cat progs (WED)
?RCS: patch45: protected "sh -c" within backquotes for Linux and SGI
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:33:00  ram
?RCS: patch32: don't create spitshell under the UU directory
?RCS:
 patch32: allow for cat in /bin or /usr/bin
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:12:58  ram
?RCS: patch10: made #!-failure message more friendly (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:49  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:spitshell shsharp sharpbang: eunicefix sh Head
?MAKE: -pick add $@ %<
?S:spitshell:
?S: This variable contains the command necessary to spit out a runnable
?S: shell on this system.  It is either cat or a grep -v for # comments.
?S:.
?S:shsharp:
?S: This variable tells further Configure units whether your sh can
?S: handle # comments.
?S:.
?S:sharpbang:
?S: This variable contains the string #! if this system supports that
?S: construct.
```

```
?S:.
?F:!sharp
?T:xcat p
?X: "paths" comes from Head
?LINT:extern paths _exe
: see if sh knows # comments
?X: This is loaded up early, so avoid being chatty.
?X: echo " "
?X: echo "Checking your $sh to see if it knows about # comments..." >&2
if `$sh -c '#' >/dev/null 2>&1`; then
?X: echo
 "Your $sh handles # comments correctly."
 shsharp=true
 spitshell=cat
?X: echo " "
?X: echo "Okay, let's see if #! works on this system..."
 xcat=/bin/cat
 test -f $xcat$_exe || xcat=/usr/bin/cat
 if test ! -f $xcat$_exe; then
  for p in `echo $PATH | sed -e "s/$p_/ /g"` $paths; do
   if test -f $p/cat$_exe; then
    xcat=$p/cat
    break
   fi
  done
  if test ! -f $xcat$_exe; then
   echo "Can't find cat anywhere!"
   exit 1
  fi
 fi
 echo "#!$xcat" >sharp
 $eunicefix sharp
 chmod +x sharp
 ./sharp > today 2>/dev/null
 if test -s today; then
?X:  echo "It does."
  sharpbang='#!'
 else
  echo "#! $xcat" > sharp
  $eunicefix sharp
  chmod +x sharp
  ./sharp > today 2>/dev/null
  if test -s today; then
?X:   echo "It does."
   sharpbang='#! '
  else
?X:   echo "Okay, let's see if #! works on this system..."
?X:   echo "It's just a comment."
```

```
   sharpbang=': use '
  fi
 fi
else
 echo " "
 echo "Your $sh doesn't grok # comments--I will strip them later on."
 shsharp=false
?X: The
 spitshell script will be perused, so leave it out the UU directory
 cd ..
 echo "exec grep -v '^[  ]*#'" >spitshell
 chmod +x spitshell
 $eunicefix spitshell
 spitshell=`pwd`/spitshell
 cd UU
 echo "I presume that if # doesn't work, #! won't work either!"
 sharpbang=': use '
fi
rm -f sharp today
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/spitshell.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethname.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_gethname.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:13:00  ram
?RCS: patch36: call ./xenix explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:11  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_gethname d_uname d_phostname aphostname: phostname cat \
 myhostname package d_portable Loc echo n c +i_whoami +usrinc \
 Myread Guess Oldconfig Csym
?MAKE: -pick add $@ %<
?S:d_gethname:
?S: This variable conditionally
```

```
 defines the HAS_GETHOSTNAME symbol, which
?S: indicates to the C program that the gethostname() routine may be
?S: used to derive the host name.
?S:.
?S:d_uname:
?S: This variable conditionally defines the HAS_UNAME symbol, which
?S: indicates to the C program that the uname() routine may be
?S: used to derive the host name.
?S:.
?S:d_phostname:
?S: This variable conditionally defines the HAS_PHOSTNAME symbol, which
?S: contains the shell command which, when fed to popen(), may be
?S: used to derive the host name.
?S:.
?S:aphostname:
?S: This variable contains the command which can be used to compute the
?S: host name. The command is fully qualified by its absolute path, to make
?S: it safe when used by a process with super-user privileges.
?S:.
?C:HAS_GETHOSTNAME (GETHOSTNAME):
?C: This symbol, if defined, indicates that the C program may use the
?C: gethostname() routine to derive the host name.  See also HAS_UNAME
?C: and PHOSTNAME.
?C:.
?C:HAS_UNAME (UNAME):
?C: This symbol,
 if defined, indicates that the C program may use the
?C: uname() routine to derive the host name.  See also HAS_GETHOSTNAME
?C: and PHOSTNAME.
?C:.
?C:PHOSTNAME:
?C: This symbol, if defined, indicates the command to feed to the
?C: popen() routine to derive the host name.  See also HAS_GETHOSTNAME
?C: and HAS_UNAME. Note that the command uses a fully qualified path,
?C: so that it is safe even if used by a process with super-user
?C: privileges.
?C:.
?C:HAS_PHOSTNAME:
?C: This symbol, if defined, indicates that the C program may use the
?C: contents of PHOSTNAME as a command to feed to the popen() routine
?C: to derive the host name.
?C:.
?H:?%<:#$d_gethname HAS_GETHOSTNAME /**/
?H:?%<:#$d_uname HAS_UNAME  /**/
?H:?%<:#$d_phostname HAS_PHOSTNAME /**/
?H:?%<:#ifdef HAS_PHOSTNAME
?H:?%<:#define PHOSTNAME "$aphostname" /* How to get the host name */
?H:?%<:#endif
```

```
?H:.
?T:file val call
?LINT:change i_whoami
: see how we will look up host name
echo " "
call=''
@if HAS_GETHOSTNAME
if
 set gethostname val -f d_gethname; eval $csym; $val; then
 echo 'gethostname() found.' >&4
 d_gethname="$define"
 call=gethostname
fi
@end
@if HAS_UNAME
if set uname val -f d_uname; eval $csym; $val; then
 if ./xenix; then
  $cat <<'EOM'
uname() was found, but you're running xenix, and older versions of xenix
have a broken uname(). If you don't really know whether your xenix is old
enough to have a broken system call, use the default answer.

EOM
  dflt=y
  case "$d_uname" in
  "$define") dflt=n;;
  esac
  rp='Is your uname() broken?'
  . ./myread
  case "$ans" in
  n*) d_uname="$define"; call=uname;;
  esac
 else
  echo 'uname() found.' >&4
  d_uname="$define"
  case "$call" in
  '') call=uname ;;
  esac
 fi
fi
@end
case "$d_gethname" in
'') d_gethname="$undef";;
esac
case "$d_uname" in
'') d_uname="$undef";;
esac
@if PHOSTNAME || MYHOSTNAME
```

```
case "$d_uname$d_gethname" in
*define*)
 dflt=n
 cat <<EOM

Every now and then someone has a $call() that lies about the hostname
but can't be fixed
 for political or economic reasons.  If you wish, I can
@if MYHOSTNAME && PHOSTNAME
pretend $call() isn't there and maybe compile in the hostname or
compute it from the '$phostname' command at run-time.
@elsif MYHOSTNAME
pretend $call() isn't there and maybe compile in the hostname.
@elsif PHOSTNAME
pretend $call() isn't there and maybe compute hostname at run-time
thanks to the '$phostname' command.
@elsif WHOAMI
get the hostname from whomai.h (provided you have one).
@else
simply ignore your host name and use someting like "noname" instead.
@end

EOM
 rp="Shall I ignore $call() from now on?"
 . ./myread
 case "$ans" in
 y*) d_uname="$undef" d_gethname="$undef"; $echo $n "Okay...$c";;
 esac;;
esac
@end
@if PHOSTNAME || aphostname
?X: Compute the full path name for the command
case "$phostname" in
") aphostname=";;
*) case "$aphostname" in
 /*) ;;
 *) set X $phostname
  shift
  file=$1
  shift
  file=`./loc $file $file $pth`
  aphostname=`echo $file $*`
  ;;
 esac
 ;;
esac
@end
@if
```

```
 PHOSTNAME && MYHOSTNAME
case "$d_uname$d_gethname" in
*define*) ;;
*)
 case "$phostname" in
 ") ;;
 *)
  $cat <<EOT

There is no gethostname() or uname() on this system.  You have two
possibilities at this point:

1)  You can have your host name ($myhostname) compiled into $package, which
   lets $package start up faster, but makes your binaries non-portable, or
2)  you can have $package use a

 popen("$aphostname","r")

   which will start slower but be more portable.

@ if WHOAMI
Option 1 will give you the option of using whoami.h if you have one.
@ end
If you want option 2 but with a different command, you can edit config.sh at
the end of this shell script.

EOT
  case "$d_phostname" in
  "$define") dflt=n;;
  "$undef")  dflt=y;;
  ")
   case "$d_portable" in
   "$define") dflt=n ;;
   *) dflt=y ;;
   esac;;
  esac
  rp="Do you want your host name compiled in?"
  . ./myread
  case "$ans" in
  n*) d_phostname="$define" ;;
  *) aphostname=''; d_phostname="$undef";;
  esac;;
 esac
 case
 "$aphostname" in
 ")
@ if WHOAMI
  case "$i_whoami" in
```

```
  "$define")
   dflt=y
   $cat <<EOM

No hostname function--you can either use the whoami.h file, which has this line:

 `grep sysname $usrinc/whoami.h`

or you can have the name we came up with earlier ($myhostname) hardwired in.
EOM
   rp="Use whoami.h to get hostname?"
   . ./myread
   case "$ans" in
   n*) i_whoami="$undef";;
   esac
   ;;
  "$undef")
   $cat <<EOM
No hostname function and no whoami.h -- hardwiring "$myhostname".
EOM
   ;;
  esac;;
@ else
  echo 'No hostname function -- hardwiring "'$myhostname'".' >&4;;
@ end
 esac;;
esac
@elsif PHOSTNAME
case "$d_uname$d_gethname" in
*define*) ;;
*)
 case "$phostname" in
 ")
@ if WHOAMI
  case "$i_whoami" in
  "$define")
   $cat <<EOM

No hostname function--we'll use the whoami.h file, which has this line:

 `grep sysname $usrinc/whoami.h`

EOM
   ;;
  *) echo "There will be no way for $package to get your hostname." >&4;;
  esac;;
@ else
  echo "There will be no way
```

```
 for $package to get your hostname." >&4;;
@ end
 *)
 echo "I'll use 'popen("""$aphostname"", "r")"" to get your hostname." >&4
  ;;
 esac;;
esac
@elsif MYHOSTNAME
case "$d_uname$d_gethname" in
*define*) ;;
*)
@ if WHOAMI
 case "$i_whoami" in
 "$define")
  dflt=y
  $cat <<EOM

No hostname function--you can either use the whoami.h file, which has this line:

 `grep sysname $usrinc/whoami.h`

or you can have the name we came up with earlier ($myhostname) hardwired in.
EOM
  rp="Use whoami.h to get hostname?"
  . ./myread
  case "$ans" in
  n*) i_whoami="$undef";;
  esac
  ;;
 "$undef")
  echo 'No whoami.h--hardwiring "'$myhostname'".' >&4;;
 esac;;
@ else
 echo 'Hardwiring "'$myhostname'".' >&4;;
@ end
esac
@end
case "$d_phostname" in
") d_phostname="$undef";;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_gethname.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
```

```
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_sendmsg: Inlibc
?MAKE: -pick add $@ %<
?S:d_sendmsg:
?S: This variable conditionally defines the HAS_SENDMSG symbol, which
?S: indicates to the C program that the sendmsg() routine is available.
?S:.
?C:HAS_SENDMSG:
?C: This symbol, if defined, indicates that the sendmsg routine is
?C: available to send structured socket messages.
?C:.
?H:#$d_sendmsg HAS_SENDMSG  /**/
?H:.
?LINT:set d_sendmsg
: see if sendmsg exists
set sendmsg d_sendmsg
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_sendmsg.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_volatile.U,v 3.0.1.2 1995/07/25 14:08:49 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_volatile.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:08:49  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0.1.1  1993/09/09  11:49:51  ram
?RCS: patch9: volatile definition was swapped over with undef
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_volatile: cat +cc +ccflags rm_try Setvar
```

```
?MAKE: -pick add $@ %<
?S:d_volatile:
?S: This variable conditionally
 defines the HASVOLATILE symbol, which
?S: indicates to the C program that this C compiler knows about the
?S: volatile declaration.
?S:.
?C:HASVOLATILE ~ %<:
?C: This symbol, if defined, indicates that this C compiler knows about
?C: the volatile declaration.
?C:.
?H:?%<:#$d_volatile HASVOLATILE /**/
?H:?%<:#ifndef HASVOLATILE
?H:?%<:#define volatile
?H:?%<:#endif
?H:.
?LINT:set d_volatile
?LINT:known volatile
: check for volatile keyword
echo " "
echo 'Checking to see if your C compiler knows about "volatile"...' >&4
$cat >try.c <<'EOCP'
int main()
{
?X:
?X: The following seven lines added by Bill Campbell <billc@sierra.com>
?X: detect that MIPS compilers do not handle volatile in all situations.
?X:
 typedef struct _goo_struct goo_struct;
 goo_struct * volatile goo = ((goo_struct *)0);
 struct _goo_struct {
  long long_int;
  int reg_int;
  char char_var;
 };
 typedef unsigned short foo_t;
 char *volatile foo;
 volatile int bar;
 volatile foo_t blech;
 foo = foo;
}
EOCP
if $cc
 -c $ccflags try.c >/dev/null 2>&1 ; then
 val="$define"
 echo "Yup, it does."
else
 val="$undef"
```

```
 echo "Nope, it doesn't."
fi
set d_volatile
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_volatile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_aintl: Inlibc
?MAKE: -pick add $@ %<
?S:d_aintl:
?S: This variable conditionally defines the HAS_AINTL symbol, which
?S: indicates to the C program that the aintl() routine is available.
?S: If copysignl is also present we can emulate modfl.
?S:.
?C:HAS_AINTL:
?C: This symbol, if defined, indicates that the aintl routine is
?C: available.  If copysignl is also present we can emulate modfl.
?C:.
?H:#$d_aintl HAS_AINTL  /**/
?H:.
?LINT:set d_aintl
: see if aintl exists
set aintl d_aintl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_aintl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?X:
?X: This unit allows the duplication of the source tree to the current
?X: directory via symbolic links.  This must be requested explicitly
?X: by them issuing a -Dmksymlinks on the command line.
?X:
?MAKE:Mksymlinks: Mkdirp lns issymlink src rsrc pkgsrc
?MAKE: -pick add $@ %<
?F:!UU
?T: dir filename tmppwd filelist
?LINT:extern mksymlinks
@if {test -f ../MANIFEST}
: Duplicate the tree with symbolic links if -Dmksymlinks was supplied
case "$mksymlinks"
 in
$define|true|[yY]*)
 echo " "
 case "$src" in
 "|'.') echo "Cannot create symlinks in the original directory." >&4
  exit 1
  ;;
 *) case "$lns:$issymlink" in
  *"ln"*" -s:"*"test -"?)
   echo "Creating the symbolic links..." >&4
   echo "(First creating the subdirectories...)" >&4
   cd ..
   awk '{print $1}' $src/MANIFEST | grep / | sed 's:/[^/]*$::' | \
    sort -u | while true
   do
    read dir
    test -z "$dir" && break
    ./UU/mkdirp $dir 2>/dev/null
    if test -d $dir; then
     : ok
    else
     echo "Failed to create '$dir'.  Aborting." >&4
     exit 1
    fi
   done
   echo "(Now creating the symlinks...)" >&4
   awk '{print $1}' $src/MANIFEST | while true; do
    read filename
    test -z "$filename" && break
    if test -f $filename; then
```

```
     if $issymlink $filename; then
      rm -f $filename
     fi
    fi
    if test -f $filename; then
     echo "$filename already exists, not symlinking."
    else
?X: Note that the following works because "$pkgsrc" is absolute
     ln
 -s $pkgsrc/$filename $filename
    fi
   done
?X: Check that everything was correctly copied
   echo "(Checking current directory...)" >&4
   cd UU
   awk '$1 !~ /PACK[A-Z]+/ {print $1}' "$rsrc/MANIFEST" | \
    (split -l 50 2>/dev/null || split -50)
   rm -f missing
   tmppwd=`pwd`
   for filelist in x??; do
    (cd ..; ls `cat "$tmppwd/$filelist"` \
     >/dev/null 2>>"$tmppwd/missing")
   done
   if test -s missing; then
    echo "Failed duplication of source tree.  Aborting." >&4
    exit 1
   fi
   ;;
  *) echo "(I cannot figure out how to do symbolic links, ignoring!)" >&4
   ;;
  esac
  ;;
 esac
 ;;
esac

@end
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Mksymlinks.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_difftime.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_difftime.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:31  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_difftime: Inlibc
?MAKE: -pick add $@ %<
?S:d_difftime:
?S: This variable conditionally defines the HAS_DIFFTIME symbol, which
?S: indicates to the C program that the difftime() routine is available.
?S:.
?C:HAS_DIFFTIME :
?C: This symbol, if defined, indicates that
 the difftime routine is
?C: available.
?C:.
?H:#$d_difftime HAS_DIFFTIME  /**/
?H:.
?LINT:set d_difftime
: see if difftime exists
set difftime d_difftime
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_difftime.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_PRId64 d_PRIi64 d_PRIu64 d_PRIo64 d_PRIx64 d_PRIXU64 \
 sPRId64 sPRIi64 sPRIu64 sPRIo64 sPRIx64 sPRIXU64: \
 quadtype i_inttypes test cat rm_try Setvar Compile run
?MAKE: -pick add $@ %<
?S:d_PRId64:
?S: This variable conditionally defines the PERL_PRId64 symbol, which
?S: indicates that stdio has a symbol to print 64-bit decimal numbers.
```

```
?S:.
?S:d_PRIi64:
?S: This variable conditionally defines the PERL_PRIi64 symbol, which
?S: indicates that stdio has a symbol to print 64-bit decimal numbers.
?S:.
?S:d_PRIu64:
?S: This variable conditionally defines the PERL_PRIu64 symbol, which
?S: indicates that stdio has a symbol to print 64-bit unsigned decimal
?S: numbers.
?S:.
?S:d_PRIo64:
?S: This variable
 conditionally defines the PERL_PRIo64 symbol, which
?S: indicates that stdio has a symbol to print 64-bit octal numbers.
?S:.
?S:d_PRIx64:
?S: This variable conditionally defines the PERL_PRIx64 symbol, which
?S: indicates that stdio has a symbol to print 64-bit hexadecimal numbers.
?S:.
?S:d_PRIXU64:
?S: This variable conditionally defines the PERL_PRIXU64 symbol, which
?S: indicates that stdio has a symbol to print 64-bit hExADECimAl numbers.
?S: The 'U' in the name is to separate this from d_PRIx64 so that even
?S: case-blind systems can see the difference.
?S:.
?S:sPRId64:
?S: This variable, if defined, contains the string used by stdio to
?S: format 64-bit decimal numbers (format 'd') for output.
?S:.
?S:sPRIi64:
?S: This variable, if defined, contains the string used by stdio to
?S: format 64-bit decimal numbers (format 'i') for output.
?S:.
?S:sPRIu64:
?S: This variable, if defined, contains the string used by stdio to
?S: format 64-bit unsigned decimal numbers (format 'u')
 for output.
?S:.
?S:sPRIo64:
?S: This variable, if defined, contains the string used by stdio to
?S: format 64-bit octal numbers (format 'o') for output.
?S:.
?S:sPRIx64:
?S: This variable, if defined, contains the string used by stdio to
?S: format 64-bit hexadecimal numbers (format 'x') for output.
?S:.
?S:sPRIXU64:
?S: This variable, if defined, contains the string used by stdio to
```

```
?S: format 64-bit hExADECimAl numbers (format 'X') for output.
?S: The 'U' in the name is to separate this from sPRIx64 so that even
?S: case-blind systems can see the difference.
?S:.
?C:PERL_PRId64:
?C: This symbol, if defined, contains the string used by stdio to
?C: format 64-bit decimal numbers (format 'd') for output.
?C:.
?C:PERL_PRIi64:
?C: This symbol, if defined, contains the string used by stdio to
?C: format 64-bit decimal numbers (format 'i') for output.
?C:.
?C:PERL_PRIu64:
?C: This symbol, if defined, contains the string used by stdio to
?C: format 64-bit unsigned decimal numbers (format 'u')
 for output.
?C:.
?C:PERL_PRIo64:
?C: This symbol, if defined, contains the string used by stdio to
?C: format 64-bit octal numbers (format 'o') for output.
?C:.
?C:PERL_PRIx64:
?C: This symbol, if defined, contains the string used by stdio to
?C: format 64-bit hexadecimal numbers (format 'x') for output.
?C:.
?C:PERL_PRIXU64:
?C: This symbol, if defined, contains the string used by stdio to
?C: format 64-bit hExADECimAl numbers (format 'X') for output.
?C:.
?H:#$d_PRId64 PERL_PRId64 $sPRId64 /**/
?H:#$d_PRIi64 PERL_PRIi64 $sPRIi64 /**/
?H:#$d_PRIu64 PERL_PRIu64 $sPRIu64 /**/
?H:#$d_PRIo64 PERL_PRIo64 $sPRIo64 /**/
?H:#$d_PRIx64 PERL_PRIx64 $sPRIx64 /**/
?H:#$d_PRIx64 PERL_PRIXU64 $sPRIXU64 /**/
?H:.
?T:yyy
?F:!try
: Check 64bit sizes
echo " "

if $test X"$quadtype" != X; then

echo "Checking how to print 64-bit integers..." >&4

if $test X"$sPRId64" = X -a X"$quadtype" = Xint; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
```

```
#include <stdio.h>
int main() {
 int q = 12345678901;

 printf("%ld\n", q);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  12345678901)
   sPRId64='"d"'; sPRIi64='"i"'; sPRIu64='"u"';
   sPRIo64='"o"'; sPRIx64='"x"'; sPRIXU64='"X"';
   echo "We will use %d."
   ;;
  esac
 fi
fi

if $test X"$sPRId64" = X -a X"$quadtype" = Xlong; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
 long q = 12345678901;
 printf("%ld\n", q);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  12345678901)
   sPRId64='"ld"'; sPRIi64='"li"'; sPRIu64='"lu"';
   sPRIo64='"lo"'; sPRIx64='"lx"'; sPRIXU64='"lX"';
   echo "We will use %ld."
   ;;
  esac
 fi
fi

if $test X"$sPRId64" = X -a X"$i_inttypes" = X"$define" -a X"$quadtype" = Xint64_t; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <inttypes.h>
#include <stdio.h>
int main() {
```

```
 int64_t q = 12345678901;
 printf("%" PRId64 "\n", q);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  12345678901)
   sPRId64=PRId64;
 sPRIi64=PRIi64; sPRIu64=PRIu64;
   sPRIo64=PRIo64; sPRIx64=PRIx64; sPRIXU64=PRIXU64;
   echo "We will use the C9X style."
   ;;
  esac
 fi
fi

if $test X"$sPRId64" = X -a X"$quadtype" != X; then
 $cat >try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
int main() {
 $quadtype q = 12345678901;
 printf("%Ld\n", q);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  12345678901)
   sPRId64='"Ld"'; sPRIi64='"Li"'; sPRIu64='"Lu"';
   sPRIo64='"Lo"'; sPRIx64='"Lx"'; sPRIXU64='"LX"';
   echo "We will use %Ld."
   ;;
  esac
 fi
fi

if $test X"$sPRId64" = X -a X"$quadtype" = X"long long"; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
 long long q = 12345678901LL; /* AIX cc requires the LL suffix. */
 printf("%lld\n", q);
}
```

```
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  12345678901)
   sPRId64='"lld"'; sPRIi64='"lli"'; sPRIu64='"llu"';
   sPRIo64='"llo"'; sPRIx64='"llx"';
 sPRIXU64='"llX"';
   echo "We will use the %lld style."
   ;;
  esac
 fi
fi

if $test X"$sPRId64" = X -a X"$quadtype" != X; then
 $cat >try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
int main() {
 $quadtype q = 12345678901;
 printf("%qd\n", q);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  12345678901)
   sPRId64='"qd"'; sPRIi64='"qi"'; sPRIu64='"qu"';
   sPRIo64='"qo"'; sPRIx64='"qx"'; sPRIXU64='"qX"';
   echo "We will use %qd."
   ;;
  esac
 fi
fi

if $test X"$sPRId64" = X; then
 echo "Cannot figure out how to print 64-bit integers." >&4
fi
$rm_try

fi

case "$sPRId64" in
") d_PRId64="$undef"; d_PRIi64="$undef"; d_PRIu64="$undef";
 d_PRIo64="$undef"; d_PRIx64="$undef"; d_PRIXU64="$undef";
 ;;
```

```
*) d_PRId64="$define"; d_PRIi64="$define"; d_PRIu64="$define";
 d_PRIo64="$define"; d_PRIx64="$define"; d_PRIXU64="$define";
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/quadfio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: ssizetype.U,v 3.0.1.3 1997/02/28 16:24:21 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: ssizetype.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:24:21  ram
?RCS: patch61: integrated perl5 concerns for mis-configured sfio
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:30:28  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:33:06  ram
?RCS: patch32: created
 by ADO
?RCS:
?MAKE:ssizetype: Myread Typedef sizetype cat rm_try Compile run i_stdlib
?MAKE: -pick add $@ %<
?S:ssizetype:
?S: This variable defines ssizetype to be something like ssize_t,
?S: long or int.  It is used by functions that return a count
?S: of bytes or an error condition.  It must be a signed type.
?S: We will pick a type such that sizeof(SSize_t) == sizeof(Size_t).
?S:.
?C:SSize_t:
?C: This symbol holds the type used by functions that return
?C: a count of bytes or an error condition.  It must be a signed type.
?C: It is usually ssize_t, but may be long or int, etc.
?C: It may be necessary to include <sys/types.h> or <unistd.h>
?C: to get any typedef'ed information.
```

```
?C: We will pick a type such that sizeof(SSize_t) == sizeof(Size_t).
?C:.
?H:#define SSize_t $ssizetype /* signed count of bytes */
?H:.
?F:!try
: see what type is used for signed size_t
set ssize_t ssizetype int stdio.h sys/types.h
eval $typedef
dflt="$ssizetype"
?X: Now check out whether sizeof(SSize_t)
 == sizeof(Size_t)
$cat > try.c <<EOM
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <sys/types.h>
#define Size_t $sizetype
#define SSize_t $dflt
int main()
{
 if (sizeof(Size_t) == sizeof(SSize_t))
  printf("$dflt\n");
 else if (sizeof(Size_t) == sizeof(int))
  printf("int\n");
 else
  printf("long\n");
 exit(0);
}
EOM
echo " "
set try
if eval $compile_ok && $run ./try > /dev/null; then
 ssizetype=`$run ./try`
 echo "I'll be using $ssizetype for functions returning a byte count." >&4
else
 $cat >&4 <<EOM
Help! I can't compile and run the ssize_t test program: please enlighten me!
(This is probably a misconfiguration in your system or libraries, and
you really ought to fix it.  Still, I'll try anyway.)

I need a type that is the same size as $sizetype, but is guaranteed to
be signed.  Common values are ssize_t, int and long.

EOM
 rp="What signed type is the same size as $sizetype?"
 . ./myread
```

```
 ssizetype="$ans"
fi
$rm_try
```

Found in path(s):
*
 /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/ssizetype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_open3.U,v 3.0.1.2 1997/02/28 15:37:12 ram Exp $
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_open3.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:37:12  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  13:58:26  ram
?RCS: patch56: added knowledge of the O_NONBLOCK symbol
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_open3: Compile test cat h_fcntl h_sysfile rm_try Setvar Findhdr run i_stdlib
?MAKE: -pick add $@ %<
?X: It would be easy to separate the
 h_O_stuff from this.
?X: Is there a reason to do so? -- HMS
?S:d_open3:
?S: This variable conditionally defines the HAS_OPEN3 manifest constant,
?S: which indicates to the C program that the 3 argument version of
?S: the open(2) function is available.
?S:.
?C:HAS_OPEN3 (OPEN3):
?C: This manifest constant lets the C program know that the three
?C: argument form of open(2) is available.
?C:.
?H:#$d_open3 HAS_OPEN3  /**/
?H:.
?W:%<:O_RDONLY O_WRONLY O_RDWR O_NDELAY O_APPEND O_SYNC O_CREAT O_TRUNC
?W:%<:O_EXCL O_NONBLOCK
```

```
?F:!try
?LINT:set d_open3
?LINT:change h_fcntl h_sysfile
: Locate the flags for 'open()'
echo " "
$cat >try.c <<EOCP
#include <sys/types.h>
#ifdef I_FCNTL
#include <fcntl.h>
#endif
#ifdef I_SYS_FILE
#include <sys/file.h>
#endif
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() {
 if(O_RDONLY);
#ifdef O_TRUNC
 exit(0);
#else
 exit(1);
#endif
}
EOCP
: check sys/file.h first to get FREAD on Sun
if $test `./findhdr sys/file.h` && \
  set try -DI_SYS_FILE
 && eval $compile; then
 h_sysfile=true;
 echo "<sys/file.h> defines the O_* constants..." >&4
 if $run ./try; then
  echo "and you have the 3 argument form of open()." >&4
  val="$define"
 else
  echo "but not the 3 argument form of open().  Oh, well." >&4
  val="$undef"
 fi
elif $test `./findhdr fcntl.h` && \
  set try -DI_FCNTL && eval $compile; then
 h_fcntl=true;
 echo "<fcntl.h> defines the O_* constants..." >&4
 if $run ./try; then
  echo "and you have the 3 argument form of open()." >&4
  val="$define"
 else
  echo "but not the 3 argument form of open().  Oh, well." >&4
```

```
  val="$undef"
 fi
else
 val="$undef"
 echo "I can't find the O_* constant definitions!  You got problems." >&4
fi
set d_open3
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_open3.U
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```
?RCS: $Id: orderlib.U,v 3.0.1.4 1997/02/28 16:18:18 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: orderlib.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  16:18:18  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: likewise for .o replaced by $_o
?RCS: patch61: now uses the ar located by Loc.U
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:33:04  ram
?RCS: patch45: allows hint files to specify their own value for 'ranlib'
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:26:48  ram
?RCS: patch36: now performs a real small compile for accurate
 checks (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:31:17  ram
?RCS: patch32: use cc variable instead of hardwired 'cc' in 1st compile
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:orderlib ranlib: Loc ar cat test rm +cc +ccflags +ldflags +libs i_stdlib _a _o run
?MAKE: -pick add $@ %<
?S:orderlib:
?S: This variable is "true" if the components of libraries must be ordered
```

```
?S: (with `lorder $* | tsort`) before placing them in an archive.  Set to
?S: "false" if ranlib or ar can generate random libraries.
?S:.
?S:ranlib:
?S: This variable is set to the pathname of the ranlib program, if it is
?S: needed to generate random libraries.  Set to ":" if ar can generate
?S: random libraries or if random libraries are not supported
?S:.
?F:!foobar
: see if ar generates random libraries by itself
echo " "
echo "Checking how to generate random libraries on your machine..." >&4
?X: Some systems (like MIPS) complain when running
 ar... Others like Ultrix
?X: need an explicit 'ar ts' to add the table of contents.
?X: Still others like Linux run ar ts successfully, but still need ranlib.
?X: This set of tests seems the minimum necessary to check out Linux.
?X: We need to explicitly put the entries in out-of-order so that Sun's ld
?X: will fail.  (Otherwise it complains, but gives an exit status of 0.)
echo 'int bar1() { return bar2(); }' > bar1.c
echo 'int bar2() { return 2; }' > bar2.c
$cat > foo.c <<EOP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() { printf("%d\n", bar1()); exit(0); }
EOP
$cc $ccflags -c bar1.c >/dev/null 2>&1
$cc $ccflags -c bar2.c >/dev/null 2>&1
$cc $ccflags -c foo.c >/dev/null 2>&1
$ar rc bar$_a bar2$_o bar1$_o >/dev/null 2>&1
if $cc -o foobar $ccflags $ldflags foo$_o bar$_a $libs > /dev/null 2>&1 &&
 $run ./foobar >/dev/null 2>&1; then
 echo "$ar appears to generate random libraries itself."
 orderlib=false
 if [ "X$ranlib" = "X" ]; then
     ranlib=":"
 fi
elif
 $ar s bar$_a >/dev/null 2>&1 &&
 $cc -o foobar $ccflags $ldflags foo$_o bar$_a $libs > /dev/null 2>&1 &&
 $run ./foobar >/dev/null 2>&1; then
  echo "a table of contents needs to be added with '$ar s'."
  orderlib=false
  ranlib="$ar s"
elif $ar ts bar$_a >/dev/null 2>&1 &&
 $cc -o foobar $ccflags $ldflags foo$_o bar$_a $libs > /dev/null 2>&1 &&
```

```
 $run ./foobar >/dev/null 2>&1; then
  echo "a table of contents needs to be added with '$ar ts'."
  orderlib=false
  ranlib="$ar ts"
else
?X: Allow hints to specify their own ranlib "script". For instance, on
?X: some NeXT machines, the timestamp put by ranlib is not correct, and this
?X: may raise tedious recompiles for nothing. Therefore, NeXT may add the
?X: ranlib='sleep 5; /bin/ranlib' line in their hints to "fix" that.
?X: (reported by Andreas Koenig <k@franz.ww.tu-berlin.de>)
 case "$ranlib" in
 :) ranlib=";;
 ")
  ranlib=`./loc ranlib X /usr/bin /bin /usr/local/bin`
  $test -f $ranlib || ranlib="
  ;;
 esac
 if $test -n "$ranlib";
 then
  echo "your system has '$ranlib'; we'll use that."
  orderlib=false
 else
  echo "your system doesn't seem to support random libraries"
  echo "so we'll use lorder and tsort to order the libraries."
  orderlib=true
  ranlib=":"
 fi
fi
$rm -f foo* bar*
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/orderlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_times.U,v 3.0.1.2 1995/07/25 14:07:50 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_times.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:07:50  ram
?RCS: patch56: typo fix, sytem -> system
```

```
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:14:00  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: What is the type returned by times() ?
?X:
?X: Force inclusion of <sys/types.h>
?X:INC: i_systypes
?MAKE:d_times clocktype:
 Csym Myread Typedef i_systimes
?MAKE: -pick add $@ %<
?S:d_times:
?S: This variable conditionally defines the HAS_TIMES symbol, which indicates
?S: that the times() routine exists.  The times() routine is normally
?S: provided on UNIX systems. You may have to include <sys/times.h>.
?S:.
?S:clocktype:
?S: This variable holds the type returned by times(). It can be long,
?S: or clock_t on BSD sites (in which case <sys/types.h> should be
?S: included).
?S:.
?C:HAS_TIMES (TIMES):
?C: This symbol, if defined, indicates that the times() routine exists.
?C: Note that this became obsolete on some systems (SUNOS), which now
?C: use getrusage(). It may be necessary to include <sys/times.h>.
?C:.
?C:Clock_t (CLOCKTYPE):
?C: This symbol holds the type returned by times(). It can be long,
?C: or clock_t on BSD sites (in which case <sys/types.h> should be
?C: included).
?C:.
?H:#$d_times HAS_TIMES  /**/
?H:#define Clock_t $clocktype /* Clock time */
?H:.
?T:val inc
: see if times exists
echo "
 "
if set times val -f d_times; eval $csym; $val; then
 echo 'times() found.' >&4
 d_times="$define"
 inc=''
 case "$i_systimes" in
 "$define") inc='sys/times.h';;
```

```
 esac
 rp="What is the type returned by times() on this system?"
 set clock_t clocktype long stdio.h sys/types.h $inc
 eval $typedef_ask
else
 echo 'times() NOT found, hope that will do.' >&4
 d_times="$undef"
?X: The following is needed for typedef (won't like an empty variable)
 clocktype='int'
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/d_times.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getnetbyaddr_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getnetbyaddr_r getnetbyaddr_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getnetbyaddr_r:
?S: This variable conditionally defines the HAS_GETNETBYADDR_R symbol,
?S: which indicates to the C program that the getnetbyaddr_r()
?S: routine is available.
?S:.
?S:getnetbyaddr_r_proto:
?S: This variable encodes the prototype of getnetbyaddr_r.
?S: It is zero if d_getnetbyaddr_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getnetbyaddr_r
?S: is defined.
?S:.
?C:HAS_GETNETBYADDR_R:
?C: This symbol, if defined, indicates that
 the getnetbyaddr_r routine
?C: is available to getnetbyaddr re-entrantly.
?C:.
?C:GETNETBYADDR_R_PROTO:
?C: This symbol encodes the prototype of getnetbyaddr_r.
?C: It is zero if d_getnetbyaddr_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getnetbyaddr_r
?C: is defined.
```

```
?C:.
?H:#$d_getnetbyaddr_r HAS_GETNETBYADDR_R /**/
?H:#define GETNETBYADDR_R_PROTO $getnetbyaddr_r_proto /**/
?H:.
?T:try hdrs d_getnetbyaddr_r_proto
: see if getnetbyaddr_r exists
set getnetbyaddr_r d_getnetbyaddr_r
eval $inlibc
case "$d_getnetbyaddr_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getnetbyaddr_r_proto:$usethreads" in
 ":define") d_getnetbyaddr_r_proto=define
  set d_getnetbyaddr_r_proto getnetbyaddr_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getnetbyaddr_r_proto" in
 define)
 case "$getnetbyaddr_r_proto" in
 "|0) try='int getnetbyaddr_r(unsigned long, int, struct netent*, char*, size_t, struct netent**, int*);'
 ./protochk
 "$extern_C $try" $hdrs && getnetbyaddr_r_proto=I_UISBWRE ;;
 esac
 case "$getnetbyaddr_r_proto" in
 "|0) try='int getnetbyaddr_r(long, int, struct netent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=I_LISBI ;;
 esac
 case "$getnetbyaddr_r_proto" in
 "|0) try='struct netent* getnetbyaddr_r(in_addr_t, int, struct netent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=S_TISBI ;;
 esac
 case "$getnetbyaddr_r_proto" in
 "|0) try='struct netent* getnetbyaddr_r(long, int, struct netent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=S_LISBI ;;
 esac
 case "$getnetbyaddr_r_proto" in
 "|0) try='int getnetbyaddr_r(in_addr_t, int, struct netent*, struct netent_data*);'
 ./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=I_TISD ;;
 esac
 case "$getnetbyaddr_r_proto" in
 "|0) try='int getnetbyaddr_r(long, int, struct netent*, struct netent_data*);'
 ./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=I_LISD
 ;;
 esac
 case "$getnetbyaddr_r_proto" in
 "|0) try='int getnetbyaddr_r(int, int, struct netent*, struct netent_data*);'
 ./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=I_IISD ;;
```

```
 esac
 case "$getnetbyaddr_r_proto" in
 "|0) try='int getnetbyaddr_r(uint32_t, int, struct netent*, char*, size_t, struct netent**, int*);'
 ./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=I_uISBWRE ;;
 esac
 case "$getnetbyaddr_r_proto" in
 "|0) d_getnetbyaddr_r=undef
  getnetbyaddr_r_proto=0
  echo "Disabling getnetbyaddr_r, cannot determine prototype." >&4 ;;
 * ) case "$getnetbyaddr_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getnetbyaddr_r_proto="REENTRANT_PROTO_$getnetbyaddr_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getnetbyaddr_r has no prototype, not using it." >&4 ;;
  esac
  d_getnetbyaddr_r=undef
  getnetbyaddr_r_proto=0
  ;;
 esac
 ;;
*) getnetbyaddr_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getnetbyaddr_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: abortsig.U,v 3.0.1.1 1994/10/29 16:02:19 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: abortsig.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:02:19  ram
?RCS: patch36: call ./usg explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:20  ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:abortsig: Myread Oldconfig Guess cat Compile rm
?MAKE: -pick add $@ %<
?S:abortsig:
?S: This variable holds the name of the signal used by the abort() call.
?S:.
?C:ABORTSIG:
?C: This symbol holds the signal number (symbol)
 used by the abort() call. To
?C: actually define the signal symbol, <signal.h> should be included.
?C:.
?H:#define ABORTSIG $abortsig  /**/
?H:.
?T:signal
: which signal is sent by abort ?
echo " "
case "$abortsig" in
")
 echo "Checking to see which signal is sent to the process by abort()..." >&4
 echo "abort" > abort.sh
 chmod +x abort.sh
?X: SIGABRT should replace SIGIOT on USG machines in a near future (1991).
 for signal in SIGIOT SIGILL SIGABRT; do
  case "$abortsig" in
  ") $cat >abort.c <<EOP
#include <signal.h>
caught() { exit(0); }
int main()
{
#ifdef $signal
 signal($signal, caught);
#endif
 if (-1 == abort())
  exit(1);
 exit(1);
}
EOP
?X: We have to use the abort.sh script otherwise sh behaves strangely on AIX.
   set abort
   if eval $compile; then
    (./abort.sh) >/dev/null 2>&1
    case $? in
    0) abortsig="$signal";;
    esac
   fi
   ;;
  esac
```

```
 done
 ;;
esac
case "$abortsig" in
") echo "(I wasn't able to compute the signal name--guessing)"
 if ./usg; then
  dflt="SIGIOT"
 else
  dflt="SIGILL"
 fi;;
*)
  dflt="$abortsig"
 ;;
esac
rp="Which signal does abort() send to the process (signal name)?"
. ./myread
abortsig="$ans"
$rm -f core abort.sh abort abort.c
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/abortsig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_accessx: Inlibc
?MAKE: -pick add $@ %<
?S:d_accessx:
?S: This variable conditionally defines the HAS_ACCESSX symbol, which
?S: indicates to the C program that the accessx() routine is available.
?S:.
?C:HAS_ACCESSX :
?C: This symbol, if defined, indicates that the accessx routine is
?C: available to do extended access checks.
?C:.
?H:#$d_accessx HAS_ACCESSX  /**/
?H:.
?LINT:set d_accessx
: see if accessx exists
set accessx d_accessx
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/acl/d_accessx.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS:
?MAKE:i_stdint: Inhdr
?MAKE: -pick add $@ %<
?S:i_stdint:
?S: This variable conditionally defines the I_STDINT symbol, which
?S: indicates to the C program that <stdint.h> exists and should
?S: be included.
?S:.
?C:I_STDINT:
?C: This symbol, if defined, indicates that <stdint.h> exists and
?C: should be included.
?C:.
?H:#$i_stdint I_STDINT  /**/
?H:.
?LINT:set i_stdint
: see if stdint is available
set stdint.h i_stdint
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_stdint.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: registers.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: registers.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:19:41  ram
?RCS: patch61: removed empty ?LINT lines
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:28:33  ram
?RCS: patch36: call ./Cppsym explicitly instead of relying on PATH
?RCS:
```

```
?RCS: Revision 3.0  1993/08/18  12:09:41  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:registers reg1 reg2 reg3 reg4 reg5 reg6 reg7 reg8 reg9 reg10 reg11 \
 reg12 reg13 reg14 reg15 reg16: awk rm Cppsym
 Myread Oldconfig
?MAKE: -pick add $@ %<
?S:registers:
?S: This variable contains the number of register declarations paid
?S: attention to by the C compiler.
?S:.
?S:reg1:
?S: This variable, along with reg2, reg3, etc. contains the eventual
?S: value for the symbols register1, register2, register3, etc.  It has
?S: either the value "register" or is null.
?S:.
?C:register1:
?C: This symbol, along with register2, register3, etc. is either the word
?C: "register" or null, depending on whether the C compiler pays attention
?C: to this many register declarations.  The intent is that you don't have
?C: to order your register declarations in the order of importance, so you
?C: can freely declare register variables in sub-blocks of code and as
?C: function parameters.  Do not use register<n> more than once per routine.
?C:.
?LINT:describe reg2 reg3 reg4 reg5 reg6 reg7 reg8 reg9 reg10 reg11
?LINT:describe reg12 reg13 reg14 reg15 reg16
?LINT:known register2 register3 register4 register5 register6
 register7
?LINT:known register8 register9 register10 register11 register12 register13
?LINT:known register14 register15 register16
?H:#define register1 $reg1  /**/
?H:#define register2 $reg2  /**/
?H:#define register3 $reg3  /**/
?H:#define register4 $reg4  /**/
?H:#define register5 $reg5  /**/
?H:#define register6 $reg6  /**/
?H:#define register7 $reg7  /**/
?H:#define register8 $reg8  /**/
?H:#define register9 $reg9  /**/
?H:#define register10 $reg10 /**/
?H:#define register11 $reg11 /**/
?H:#define register12 $reg12 /**/
?H:#define register13 $reg13 /**/
?H:#define register14 $reg14 /**/
?H:#define register15 $reg15 /**/
?H:#define register16 $reg16 /**/
?H:.
?F:!.foo
```

```
: see how many register declarations we want to use
case "$registers" in
")
 if ./Cppsym vax; then
  dflt=6
 elif ./Cppsym sun mc68000 mips; then
  dflt=10
 elif ./Cppsym pyr; then
  dflt=14
 elif ./Cppsym ns32000 ns16000; then
  dflt=5
 elif ./Cppsym $smallmach; then
  dflt=3
 else
  : if you have any other numbers
 for me, please send them in
  dflt=6
 fi;;
*) dflt=$registers ;;
esac
?LINT:set reg2 reg3 reg4 reg5 reg6 reg7 reg8 reg9 reg10 reg11
?LINT:set reg12 reg13 reg14 reg15 reg16
cat <<EOM

Different C compilers on different machines pay attention to different numbers
of register declarations.  About how many register declarations in each routine
does your C compiler pay attention to?  (OK to guess)

EOM
rp="Maximum register declarations?"
. ./myread
registers=$ans
reg1="
$awk "BEGIN { for (i=1; i<=16; i++) printf \"reg%d="\n\", i}" \
 </dev/null >.foo
. ./.foo
$awk "BEGIN { for (i=1; i<=$registers; i++) printf \"reg%d=register\n\", i}" \
 </dev/null >.foo
. ./.foo
$rm -f .foo
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/registers.U
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:

```
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_statvfs d_fstatvfs: Inlibc
?MAKE: -pick add $@ %<
?S:d_statvfs:
?S: This variable conditionally defines the HAS_STATVFS symbol, which
?S: indicates to the C program that the statvfs() routine is available.
?S:.
?S:d_fstatvfs:
?S: This variable conditionally defines the HAS_FSTATVFS symbol, which
?S: indicates to the C program that the fstatvfs() routine is available.
?S:.
?C:HAS_STATVFS:
?C: This symbol, if defined, indicates that the statvfs routine is
?C: available to stat filesystems by filenames.
?C:.
?C:HAS_FSTATVFS:
?C: This symbol, if defined, indicates that the fstatvfs routine is
?C: available to stat filesystems by file descriptors.
?C:.
?H:#$d_statvfs HAS_STATVFS  /**/
?H:#$d_fstatvfs
 HAS_FSTATVFS  /**/
?H:.
?LINT:set d_statvfs
?LINT:set d_fstatvfs
: see if statvfs exists
set statvfs d_statvfs
eval $inlibc

: see if fstatvfs exists
set fstatvfs d_fstatvfs
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_statvfs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
?MAKE:d_frexpl: Inlibc
?MAKE: -pick add $@ %<
?S:d_frexpl:
?S: This variable conditionally defines the HAS_FREXPL symbol, which
?S: indicates to the C program that the frexpl() routine is available.
?S:.
?C:HAS_FREXPL:
?C: This symbol, if defined, indicates that the frexpl routine is
?C: available to break a long double floating-point number into
?C: a normalized fraction and an integral power of 2.
?C:.
?H:#$d_frexpl HAS_FREXPL  /**/
?H:.
?LINT:set d_frexpl
: see if frexpl exists
set frexpl d_frexpl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_frexpl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Init.U,v 3.0.1.1 1994/10/31 09:45:59 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Init.U,v $
?RCS: Revision 3.0.1.1  1994/10/31  09:45:59  ram
?RCS: patch44: removed Options from MAKE to prevent Init overrides
?RCS: patch44: option processing now done after Myinit thanks to new Begin.U
?RCS: patch44: moved "Beginning of configuration questions" to Begin.U
?RCS: patch44: moved signal trapping instruction to Begin.U as well
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file
 initializes certain default variables used by Configure.  They
?X: may be overridden or added to by definitions in Myinit.U.
```

```
?X:
?MAKE:Init eunicefix: Null
?MAKE: -pick add $@ %<
?MAKE: -pick weed $@ ./Init
?S:eunicefix:
?S: When running under Eunice this variable contains a command which will
?S: convert a shell script to the proper form of text file for it to be
?S: executable by the shell.  On other systems it is a no-op.
?S:.
?V:define undef smallmach:rmlist
?X:
?X: Throughout the units, one may make use of $define and $undef to reference
?X: a defined symbol or an undefined one. There is no need to add them in
?X: the dependency line since this unit makes them visible via ?V:, and
?X: everyone inherits from those symbols since by convention Init.U is the
?X: root dependency.
?X:
?LINT:extern DJGPP
?LINT:extern _exe
?LINT:change _exe
?LINT:extern is_os2
: Detect odd OSs
define='define'
undef='undef'
smallmach='pdp11 i8086 z8000 i80286 iAPX286'
rmlist=''

: We must find out about
 Eunice early
eunicefix=':'
if test -f /etc/unixtovms; then
 eunicefix=/etc/unixtovms
fi
if test -f /etc/unixtovms.exe; then
 eunicefix=/etc/unixtovms.exe
fi

: Set executable suffix now -- needed before hints available
if test -f "/libs/version.library"; then
: Amiga OS
   _exe=""
elif test -f "/system/gnu_library/bin/ar.pm"; then
: Stratus VOS
   _exe=".pm"
elif test -n "$DJGPP"; then
: DOS DJGPP
   _exe=".exe"
elif test -f /kern/cookiejar; then
```

```
: MiNT
   _exe=""
elif test -d c:/. -o -n "$is_os2" ; then
: OS/2 or cygwin
   _exe=".exe"
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Init.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: nlist_pfx.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: nlist_pfx.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:26:18  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:25  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:nlist_pfx nlist_fnd: cat test Myread Oldconfig libnlist \
 +cc +ccflags
?MAKE: -pick add $@ %<
?S:nlist_pfx:
?S: This variable holds any characters which precede the symbol name
?S: when doing an nlist search.
?S:.
?S:nlist_fnd:
?S: This
 variable holds the member of the nlist structure which is
?S: nonzero if an nlist search succeeds.  Presently, it is always "n_value".
?S:.
?C:NLIST_PREFIX:
?C: This manifest constant holds the string of characters which should
?C: precede the symbol name when doing an nlist search.
?C:.
?C:NLIST_FOUND:
?C: This manifest constant holds the member of the nlist structure which
?C: is nonzero if an nlist search succeeds.
```

```
?C:.
?H:#define NLIST_PREFIX $nlist_pfx /**/
?H:#define NLIST_FOUND $nlist_fnd /**/
?H:.
?F:!nlisttest
?T:nlist_loc
: Nose around for nlist stuff
echo " "
echo "Checking out nlist stuff..." >&4
$cat >nlisttest.c <<'EOCP'
#include <stdio.h>
#include <nlist.h>

main(argc, argv)
int argc;
char **argv;
{
 int (*loc)();
 extern int hereIam();
 static struct nlist nl[] = {
  { "IamNotFound", 0 },
  { "hereIam", 0 },
  { "_hereIam", 0 },
  { ".hereIam", 0 },
  { "", 0 }
 };

 loc = hereIam;

 if(argc == 1) {
  printf("%ld\n", loc);}
 else {
  int i;
  int rc;

  if(nlist("./nlisttest",
 nl) == -1) exit(-1);
  i = argv[1][0] - '0';
  printf("%d %d %d\n", nl[i].n_name, nl[i].n_type, nl[i].n_value);
  }
 exit(0);}

int hereIam() {

 return;}
EOCP
nlist_fnd=n_value
if $cc $ccflags -o nlisttest nlisttest.c $libnlist >/dev/null 2>&1 ; then
```

```
 set `./nlisttest`
 nlist_loc=$1

 set `./nlisttest 0`
 if $test "$3" = "0" ; then
  echo "$nlist_fnd is 0 if nlist() fails, as I expected."
 else
  $cat <<EOM
Hello, Jim.  We have just discovered that $nlist_fnd was nonzero on an
nlist() lookup failure!  Your mission, should you choose to accept it, is to
edit either config.sh (to provide a Good value for nlist_fnd) or The Code
(to find an alternative to NLIST_FOUND), and reporting the full details of
your success to the MetaConfig Police.  Of course, should you fail...
EOM
  nlist_fnd="/* Bletch! */ */"
 fi

 set `./nlisttest 1`
 if $test "$nlist_loc" = "$3" ; then
  echo "Symbols are stored with no initial characters."
  nlist_pfx=
 else
  set `./nlisttest 2`
  if
 $test "$nlist_loc" = "$3" ; then
   echo "Symbols are stored with an initial underscore."
   nlist_pfx=_
  else
   set `./nlisttest 3`
   if $test "$nlist_loc" = "$3" ; then
    echo "Symbols are stored with an initial dot."
    nlist_pfx=.
   else
    $cat <<EOM
I can't figure out the symbol prefix!
You get to edit config.sh and fix 'nlist_pfx' (Configure will let you do this
at the end of its configuration questions), or config.h and fix the value of
the NLIST_PREFIX symbol.
EOM
    nlist_pfx="/* Bletch! */ */"
   fi
  fi
 fi
else
 $cat <<EOM
I can't get the nlist test program working!
You get to edit config.sh and fix 'nlist_pfx' (Configure will let you do this
at the end of its configuration questions) and 'nlist_fnd', or config.h and
```

```
fix the value of the NLIST_PREFIX and NLIST_FOUND symbols.
EOM
 nlist_pfx="/* Bletch! */ */"
 nlist_fnd="/* Bletch! */ */"
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/nlist_pfx.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X: This unit generates a $hasstruct string that is used internally
?X: by Configure to check if this system has a field for a
?X: particular struct (of if this system has a particular struct!)
?X:
?X: To use it, say something like:
?X:  set d_statblocks stat i_sysstat sys/stat.h
?X:  eval $hasstruct
?X: Or, for more complicated sets of headers, do something like
?X: hdrs="$define sys/foo.h
?X:  $i_sysbar sys/bar.h
?X:  $i_syszot sys/zot.h
?X:  $i_zappa zappa.h"
?X: set d_statblocks stat $hdrs
?X: eval $hasstruct
?X:
?MAKE:Hasstruct: Setvar rm_try test Compile
?MAKE: -pick add $@ %<
?T:varname struct
?V:hasstruct
: Define hasstruct macro for Configure internal use
hasstruct='varname=$1; struct=$2; shift;
 shift;
while $test $# -ge 2; do
 case "$1" in
 $define) echo "#include <$2>";;
 esac ;
   shift 2;
done > try.c;
echo "int main () { struct $struct foo; }" >> try.c;
set try;
```

```
if eval $compile; then
 val="$define";
else
 val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try'
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/Hasstruct.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2005, H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_malloc_size d_malloc_good_size d_malloc_usable_size: Inlibc
?MAKE: -pick add $@ %<
?S:d_malloc_size:
?S: This symbol, if defined, indicates that the malloc_size
?S: routine is available for use.
?S:.
?S:d_malloc_good_size:
?S: This symbol, if defined, indicates that the malloc_good_size
?S: routine is available for use.
?S:.
?S:d_malloc_usable_size:
?S: This symbol, if defined, indicates that the malloc_usable_size
?S: routine is available for use.
?S:.
?C:HAS_MALLOC_SIZE:
?C: This symbol, if defined, indicates that
 the malloc_size
?C: routine is available for use.
?C:.
?H:#$d_malloc_size HAS_MALLOC_SIZE  /**/
?H:.
?C:HAS_MALLOC_GOOD_SIZE:
?C: This symbol, if defined, indicates that the malloc_good_size
?C: routine is available for use.
```

```
?C:.
?H:#$d_malloc_good_size HAS_MALLOC_GOOD_SIZE /**/
?H:.
?C:HAS_MALLOC_USABLE_SIZE:
?C: This symbol, if defined, indicates that the malloc_usable_size
?C: routine is available for use.
?C:.
?H:#$d_malloc_usable_size HAS_MALLOC_USABLE_SIZE  /**/
?H:.
?LINT:set d_malloc_size
?LINT:set d_malloc_good_size
?LINT:set d_malloc_usable_size
: see if malloc_size exists
set malloc_size d_malloc_size
eval $inlibc

: see if malloc_size_good exists
set malloc_good_size d_malloc_good_size
eval $inlibc

: see if malloc_usable_size exists
set malloc_usable_size d_malloc_usable_size
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_malloc_size.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_msgget.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msgget.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_msgget: Inlibc
?MAKE: -pick add $@ %<
?S:d_msgget:
?S: This variable conditionally defines the HAS_MSGGET symbol, which
?S: indicates to the C program that the msgget() routine is available.
```

```
?S:.
?C:HAS_MSGGET:
?C: This symbol, if defined, indicates that the msgget() routine is
?C: available to get a new message queue.
?C:.
?H:#$d_msgget
 HAS_MSGGET  /**/
?H:.
?LINT:set d_msgget
: see if msgget exists
set msgget d_msgget
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_msgget.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: h_fcntl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: h_fcntl.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:12  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:h_fcntl: Nothing
?MAKE: -pick add $@ %<
?S:h_fcntl:
?S: This is variable gets set in various places to tell i_fcntl that
?S: <fcntl.h> should be included.
?S:.
: Initialize h_fcntl
h_fcntl=false
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/h_fcntl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sjis2jis.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sjis2jis.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:25  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sjis2jis: Inlibc
?MAKE: -pick add $@ %<
?S:d_sjis2jis:
?S: This variable conditionally defines the HAS_SJIS2JIS symbol, which
?S: indicates to the C program that the sjis2jis() routine is available
?S: to convert SJIS to JIS.
?S:.
?C:HAS_SJIS2JIS:
?C: This symbol, if defined, indicates that the sjis2jis routine is
?C: available
 to convert SJIS to JIS.
?C:.
?H:#$d_sjis2jis HAS_SJIS2JIS  /**/
?H:.
?LINT:set d_sjis2jis
: see if sjis2jis exists
set sjis2jis d_sjis2jis
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sjis2jis.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysdir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysdir.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:22:30  ram
```

```
?RCS: patch32: fixed typo in I_SYS_DIR symbol name
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:30  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_sysdir: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysdir:
?S: This variable conditionally defines the I_SYS_DIR symbol, and indicates
?S: whether a C program should include <sys/dir.h>.
?S:.
?C:I_SYS_DIR (I_SYSDIR):
?C: This symbol, if
 defined, indicates to the C program that it should
?C: include <sys/dir.h>.
?C:.
?H:#$i_sysdir I_SYS_DIR  /**/
?H:.
?LINT:set i_sysdir
: see if this is an sysdir system
set sys/dir.h i_sysdir
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sysdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_dbl_dig.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_dbl_dig.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:28  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_dbl_dig: Myread contains cat rm Setvar i_limits i_float \
 cppstdin cppflags cppminus
?MAKE: -pick add $@ %<
?S:d_dbl_dig:
```

```
?S: This variable conditionally defines d_dbl_dig if this system's
?S: header files provide DBL_DIG, which is the number of significant
?S: digits
 in a double precision number.
?S:.
?C:HAS_DBL_DIG:
?C: This symbol, if defined, indicates that this system's <float.h>
?C: or <limits.h> defines the symbol DBL_DIG, which is the number
?C: of significant digits in a double precision number.  If this
?C: symbol is not defined, a guess of 15 is usually pretty good.
?C:.
?H:#$d_dbl_dig HAS_DBL_DIG  /**/
?H:.
?F:!dbl_dig.c
?LINT:set d_dbl_dig
: See if number of significant digits in a double precision number is known
echo " "
$cat >dbl_dig.c <<EOM
#$i_limits I_LIMITS
#$i_float I_FLOAT
#ifdef I_LIMITS
#include <limits.h>
#endif
#ifdef I_FLOAT
#include <float.h>
#endif
#ifdef DBL_DIG
printf("Contains DBL_DIG");
#endif
EOM
$cppstdin $cppflags $cppminus < dbl_dig.c >dbl_dig.E 2>/dev/null
if $contains 'DBL_DIG' dbl_dig.E >/dev/null 2>&1; then
 echo "DBL_DIG found." >&4
 val="$define"
else
 echo "DBL_DIG NOT found." >&4
 val="$undef"
fi
$rm -f dbl_dig.?
set d_dbl_dig
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_dbl_dig.U
No license file was found, but licenses were detected in source scan.

?RCS: Id

```
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_socklen_t: Inhdr cat rm_try Setvar Compile d_socket sizetype
?MAKE: -pick add $@ %<
?S:d_socklen_t:
?S: This symbol will be defined if the C compiler supports socklen_t.
?S:.
?C:HAS_SOCKLEN_T:
?C: This symbol will defined if the C compiler supports socklen_t.
?C: Usually the <sys/socket.h> needs to be included.
?C:.
?H:#$d_socklen_t     HAS_SOCKLEN_T              /**/
?H:.
?LINT:set d_socklen_t
: check for socklen_t
echo " "
echo "Checking to see if you have socklen_t..." >&4
$cat >try.c <<EOCP
#include <sys/types.h>
#$d_socket
 HAS_SOCKET
#ifdef HAS_SOCKET
#include <sys/socket.h>
#endif
int main() { socklen_t x = 16; }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have socklen_t."
else
 val="$undef"
 echo "You do not have socklen_t."
 case "$sizetype" in
 size_t) echo "(You do have size_t, that might work. Some people are happy with just an int.)" ;;
 esac
fi
$rm_try
set d_socklen_t
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_socklen_t.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2017 Karl Williamson
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_nl_langinfo_l d_thread_safe_nl_langinfo_l: Compile cat rm_try Oldconfig \
 i_pthread i_stdlib i_langinfo i_locale  \
 usethreads run
?MAKE: -pick add $@ %<
?S:d_nl_langinfo_l:
?S: This variable contains the eventual value of the
?S: HAS_NL_LANGINFO_L symbol, which indicates if the
?S: nl_langinfo_l() function exists.
?S:.
?S:d_thread_safe_nl_langinfo_l:
?S: This variable contains the eventual value of the
?S: HAS_THREAD_SAFE_NL_LANGINFO_L symbol, which indicates if the
?S: nl_langinfo_l() function exists and is thread-safe.
?S:.
?C:HAS_NL_LANGINFO_L:
?C: This symbol, when defined, indicates presence of the nl_langinfo_l()
?C: function
?C:.
?C:HAS_THREAD_SAFE_NL_LANGINFO_L:
?C: This symbol, when defined,
 indicates presence of the nl_langinfo_l()
?C: function, and that it is thread-safe.
?C:.
?H:#$d_nl_langinfo_l HAS_NL_LANGINFO_L /**/
?H:#$d_thread_safe_nl_langinfo_l HAS_THREAD_SAFE_NL_LANGINFO_L /**/
?H:.
?F:!try
: check for nl_langinfo_l item
$cat <<EOM

Checking to see if you have nl_langinfo_l(), and that it is thread-safe
EOM
?X: Despite claiming that nl_langinfo_l() is thread-safe, the POSIX 2008
?X: standard allows for a non-safe implementation:
?X:
?X:    "nl_langinfo_l() uses an internal per-thread buffer, and nl_langinfo()
```

```
?X: uses (in all threads) the same buffer that nl_langinfo_l() uses in the
?X: initial thread. There can be interactions, but only when
?X: nl_langinfo_l() is called in the initial thread"
?X:
?X: This program calls nl_langinfo_l(), then creates a thread, calling plain
?X: nl_langinfo() from within it, then sees if the buffer in the original
?X: thread was changed.
$cat >try.c <<EOCP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#include
 <string.h>
#$i_langinfo I_LANGINFO
#ifdef I_LANGINFO
#  include <langinfo.h>
#endif
#$i_pthread I_PTHREAD
#ifdef I_PTHREAD
#  include <pthread.h>
#endif
#$i_locale I_LOCALE
#ifdef I_LOCALE
#  include <locale.h>
#endif

void *
thread_start(void * arg)
{
   nl_langinfo(RADIXCHAR);
}

int main() {
   char * main_buffer;
   char save_main_buffer[1000];
   pthread_t subthread;
   pthread_attr_t attr;

   main_buffer = nl_langinfo_l(CODESET, newlocale(LC_ALL_MASK, "C", 0));

   /* If too large for our generous allowance, just assume we don't have
    * it. */
   if (strlen(main_buffer) >= sizeof(save_main_buffer)) {
       exit(1);
   }

   strcpy(save_main_buffer, main_buffer);
```

```
  if (pthread_attr_init(&attr) != 0) {
      exit(1);
  }

  if (pthread_create(&subthread, &attr, thread_start, NULL) != 0) {
      exit(1);
  }

  if (pthread_join(subthread, NULL) != 0) {
      exit(1);
  }

  exit(! (strcmp(main_buffer, save_main_buffer) == 0));
}
EOCP
case
 "$usethreads" in
  define)
      set try
      if eval $compile; then
          echo "Your system has nl_langinfo_l()..." >&4
          d_nl_langinfo_l="$define"
          echo "$d_nl_langinfo_l" >&4
          if $run ./try; then
              echo "and it is thread-safe (just as I'd hoped)." >&4
              d_thread_safe_nl_langinfo_l="$define"
              echo "$d_thread_safe_nl_langinfo_l" >&4
          else
              echo "but it isn't thread-safe." >&4
          fi
      else
          echo "your system does not have nl_langinfo_l()" >&4
      fi
      ;;
  *) echo "Since threads aren't selected, we won't bother looking for nl_langinfo_l()" >&4
esac
if test X"$d_nl_langinfo_l" = X; then
 d_nl_langinfo_l="$undef"
fi
if test X"$d_thread_safe_nl_langinfo_l" = X; then
 d_thread_safe_nl_langinfo_l="$undef"
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_nl_langinfo_l.U

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```
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?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: charorder.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:07:08  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:33  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:chorder_int chorder_short chorder_long: Myread cat +cc +ccflags rm
?MAKE: -pick add $@ %<
?S:chorder_short (d_cos d_bos):
?S: Holds the value describing the byte ordering of characters in a short.
?S: On a Big-Endian machine, that would be "c0c1".
?S:.
?S:chorder_int
 (charoder):
?S: Holds the value describing the byte ordering of characters in an int.
?S: For instance, on a Big-Endian machine, this would be: "c0c1c2c3".
?S:.
?S:chorder_long (d_col d_bol):
?S: Holds the value describing the byte ordering of characters in a long.
?S: On a 64 bits Big-Endian machine, that would yield: "c0c1c2c3c4c5c6c7".
?S:.
?C:CHAR_ORDER_SHORT:
?C: Holds the byte ordering of characters in a short. It's a string
?C: value like "c0c1" on a Big-Endian machine.
?C:.
?C:CHAR_ORDER_INT:
?C: Holds the byte ordering of characters in an int. It's a string
?C: value like "c0c1c2c3" on a Big-Endian machine.
?C:.
?C:CHAR_ORDER_LONG:
?C: Holds the byte ordering of characters in a long. It's a string
?C: value like "c0c1c2c3c4c5c6c7" on a 64 bits Big-Endian machine.
?C:.
?H:#define CHAR_ORDER_SHORT "$chorder_short" /* byte order in a short */
?H:#define CHAR_ORDER_INT "$chorder_int" /* byte order in an int */
```

```
?H:#define CHAR_ORDER_LONG "$chorder_long" /* byte order in a long */
?H:.
?F:!byteorder
:
 check for character ordering
echo " "
echo "Checking out byte order..." >&4
$cat >byteorder.c <<'EOCP'
#include <stdio.h>

main(argc, argv)
 int argc;
 char *argv[]; {
 int i;
 int max;
 union {
  short u_s;
  int u_i;
  long u_l;
  char u_c[sizeof(long)];
 } u;
 switch (argv[1][0]) {
 case 'l':
  u.u_l = 0L;
  /* HMS: ASSERT: sizeof(long) < 10. */
  for(i = 0; i < sizeof(long); ++i) {
   u.u_l *= 0x100L;
   u.u_l += (0xc0 + i);
  }
  max = sizeof(long);
  break;
 case 's':
  u.u_s = 0;
  /* HMS: ASSERT: sizeof(short) < 10. */
  for(i = 0; i < sizeof(short); ++i) {
   u.u_s *= 0x100L;
   u.u_s += (0xc0 + i);
  }
  max = sizeof(short);
  break;
 case 'i':
  u.u_i = 0;
  /* RAM: ASSERT: sizeof(int) < 10. */
  for(i = 0; i < sizeof(int); ++i) {
   u.u_l *= 0x100L;
   u.u_l += (0xc0 + i);
  }
  max = sizeof(int);
```

```
  break;
 default:
  max = 0;
  break;
 }
 for(i = 0; i < max; i++) {
  printf("%x", u.u_c[i] & 0x00FF);
 }
 printf("\n");
 exit(0);
}
EOCP
if $cc $ccflags -o
 byteorder byteorder.c >/dev/null 2>&1 ; then
 : null statement
@if chorder_short
   chorder_short=`./byteorder s`
@end
@if chorder_int
   chorder_int=`./byteorder i`
@end
@if chorder_long
   chorder_long=`./byteorder l`
@end
else
 $cat <<EOM
(I can't seem to get my test program to work.  Guessing 32 bits big-endian.)
EOM
   chorder_short="c0c1"
   chorder_int="c0c1c2c3"
   chorder_long="c0c1c2c3"
fi
@if chorder_short
dflt=$chorder_short
rp='What is the order of characters in a short?'
. ./myread
chorder_short="$ans"
@end
@if chorder_int
dflt=$chorder_int
rp='What is the order of characters in an int?'
. ./myread
chorder_int="$ans"
@end
@if chorder_long
dflt=$chorder_long
rp='What is the order of characters in a long?'
. ./myread
```

```
chorder_long="$ans"
@end
$rm -f byteorder* core
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/charorder.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_truncl: Inlibc
?MAKE: -pick add $@ %<
?S:d_truncl:
?S: This variable conditionally defines the HAS_TRUNCL symbol, which
?S: indicates to the C program that the truncl() routine is available
?S: to round long doubles towards zero. If copysignl is also present,
?S: we can emulate modfl.
?S:.
?C:HAS_TRUNCL :
?C: This symbol, if defined, indicates that the truncl routine is
?C: available. If copysignl is also present we can emulate modfl.
?C:.
?H:#$d_truncl HAS_TRUNCL  /**/
?H:.
?LINT:set d_truncl
: see if truncl exists
set truncl d_truncl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_truncl.U
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```
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_mkostemp: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkostemp:
?S: This variable conditionally defines HAS_MKOSTEMP if mkostemp() is
```

```
?S: available to exclusively create and open a uniquely named (with a
?S: suffix) temporary file.
?S:.
?C:HAS_MKOSTEMP:
?C: This symbol, if defined, indicates that the mkostemp routine is
?C: available to exclusively create and open a uniquely named (with a
?C: suffix) temporary file.
?C:.
?H:#$d_mkostemp HAS_MKOSTEMP /**/
?H:.
?LINT:set d_mkostemp
: see if mkostemp exists
set mkostemp d_mkostemp
eval $inlibc

Found
 in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
5.36.0/U/perl/d_mkostemp.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Warn_v7ND.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Warn_v7ND.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:01:46  ram
?RCS: patch36: call ./v7 explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:18  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit warns V7 sites that they may not have a non-blocking read.
?X: This unit needs to be mentioned in End.U to get included.
?X:
?MAKE:Warn_v7ND: package Guess
?MAKE: -pick add $@ %<
: Warnings
if ./v7; then
 cat
```

```
 <<EOM

NOTE: many V7 systems do not have a way to do a non-blocking read.  If you
don't have any of FIONREAD, O_NDELAY, or rdchk(), the $package package
may not work as well as it might.  It might not work at all.
EOM
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Warn_v7ND.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: usenm.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:26:40  ram
?RCS: patch61: don't use nm with the GNU C library
?RCS: patch61: added support for Linux shared libs
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:usenm runnm nm_opt nm_so_opt: cat test Myread Oldconfig grep \
 d_gnulibc nm egrep rsrc osname Guess
?MAKE: -pick add $@ %<
?S:usenm:
?S: This variable contains 'true' or 'false' depending whether the
?S: nm extraction is wanted
 or not.
?S:.
?S:runnm:
?S: This variable contains 'true' or 'false' depending whether the
?S: nm extraction should be performed or not, according to the value
?S: of usenm and the flags on the Configure command line.
?S:.
?S:nm_opt:
?S: This variable holds the options that may be necessary for nm.
?S:.
?S:nm_so_opt:
```

```
?S: This variable holds the options that may be necessary for nm
?S: to work on a shared library but that can not be used on an
?S: archive library.  Currently, this is only used by Linux, where
?S: nm --dynamic is *required* to get symbols from an ELF library which
?S: has been stripped, but nm --dynamic is *fatal* on an archive library.
?S: Maybe Linux should just always set usenm=false.
?S:.
: see if nm is to be used to determine whether a symbol is defined or not
?X: If there is enough inquiries, it might be worth to wait for the nm
?X: extraction. Otherwise, the C compilations might be a better deal.
?X:
?X: Don't bother if we're using GNU libc -- skimo
case "$usenm"
 in
")
 dflt="
 case "$d_gnulibc" in
 "$define")
  echo " "
  echo "$nm probably won't work on the GNU C Library." >&4
  dflt=n
  ;;
 esac
 case "$dflt" in
 ")
  if $test "$osname" = aix -a ! -f /lib/syscalls.exp; then
   echo " "
   echo "Whoops!  This is an AIX system without /lib/syscalls.exp!" >&4
   echo "'nm' won't be sufficient on this system." >&4
   dflt=n
  fi
  ;;
 esac
 case "$dflt" in
 ")
  if ./gnu; then
   echo " "
   echo "Hmm...  A GNU system without a GNU C Library?  Weird..." >&4
   dflt=n
  else
   dflt=`$egrep 'inlibc|csym' $rsrc/Configure | wc -l 2>/dev/null`
   if $test $dflt -gt 20; then
    dflt=y
   else
    dflt=n
   fi
  fi
  ;;
```

```
 esac
 ;;
*)
 case "$usenm" in
 true|$define) dflt=y;;
 *) dflt=n;;
 esac
 ;;
esac
$cat <<EOM

I can use $nm to extract the symbols from your C libraries. This
is a time consuming task which may generate huge output on the disk (up
to 3 megabytes) but that should make the symbols extraction faster. The
alternative is to skip the
 'nm' extraction part and to compile a small
test program instead to determine whether each symbol is present. If
you have a fast C compiler and/or if your 'nm' output cannot be parsed,
this may be the best solution.

EOM
rp='Shall I use nm to extract C symbols from the libraries?'
. ./myread
case "$ans" in
[Nn]*) usenm=false;;
*) usenm=true;;
esac

?X: Name extraction is to be run if 'nm' usage is wanted and if no -r flag
?X: was provided to configure (in which case we simply re-use the previous
?X: values).
runnm=$usenm
case "$reuseval" in
true) runnm=false;;
esac

: nm options which may be necessary
case "$nm_opt" in
") if $test -f /mach_boot; then
  nm_opt="  # Mach
 elif $test -d /usr/ccs/lib; then
  nm_opt='-p'  # Solaris (and SunOS?)
 elif $test -f /dgux; then
  nm_opt='-p'  # DG-UX
 elif $test -f /lib64/rld; then
  nm_opt='-p'  # 64-bit Irix
 else
  nm_opt="
```

```
 fi;;
esac

?X: nm options which may be necessary for shared libraries but illegal
?X: for archive libraries.  Thank you,
 Linux.
case "$nm_so_opt" in
") case "$osname" in
 *linux*)
  if $nm --help | $grep 'dynamic' > /dev/null 2>&1; then
   nm_so_opt='--dynamic'
  fi
  ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/usenm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setegid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setegid.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setegid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setegid:
?S: This variable conditionally defines the HAS_SETEGID symbol, which
?S: indicates to the C program that the setegid() routine is available
?S: to change the effective gid of the current program.
?S:.
?C:HAS_SETEGID (SETEGID):
?C: This symbol, if defined, indicates that the setegid
 routine is available
?C: to change the effective gid of the current program.
?C:.
```

```
?H:#$d_setegid HAS_SETEGID  /**/
?H:.
?LINT:set d_setegid
: see if setegid exists
set setegid d_setegid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setegid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: kernel.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: kernel.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:kernel: Getfile test
?MAKE: -pick add $@ %<
?S:kernel:
?S: This variable becomes the (fully rooted) path name of the kernel.
?S:.
: find the name of the kernel.
echo " "
case "$kernel" in
")
 if $test -r /unix; then
  dflt=/unix
 elif $test -r /vmunix; then
  dflt=/vmunix
 elif $test -r /xenix; then
  dflt=/xenix
 elif $test -r /mach; then
  dflt=/mach
 elif
 $test -r /dgux; then
  dflt=/dgux
 elif $test -r /hp-ux; then
  dflt=/hp-ux
```

```
 elif $test -r /syst; then
  dflt=/syst
 elif $test -r /arix; then
  dflt=/arix
 elif $test -r /irix; then
  dflt=/arix
 else
  dflt='unknown'
  set X /*x
  shift
  case $# in
  1)
   if $test -r "$1"; then
    dflt="$1"
   fi
   ;;
  esac
 fi
 ;;
*)
 dflt="$kernel"
 ;;
esac
fn=f
rp='What is the name of your kernel?'
. ./getfile
kernel="$ans"
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/kernel.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_wait3.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_wait3.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_wait3: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_wait3:
?S: This variable conditionally defines the HAS_WAIT3 symbol, which
?S: indicates to the C program that the wait3() subroutine exists.
?S:.
?C:HAS_WAIT3:
?C: This symbol, if defined, indicates that the wait3() subroutine
?C: exists.
?C:.
?H:#$d_wait3 HAS_WAIT3 /**/
?H:.
?LINT:set d_wait3
:
 see if 'wait3()' exists
set wait3 d_wait3
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_wait3.U
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```
?RCS: $Id: i_dlfcn.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_dlfcn.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:21:53  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:i_dlfcn: Inhdr
?MAKE: -pick add $@ %<
?S:i_dlfcn:
?S: This variable conditionally defines the I_DLFCN symbol, which
?S: indicates to the C program that <dlfcn.h> exists and should
?S: be included.
?S:.
?C:I_DLFCN:
?C: This symbol, if defined, indicates that <dlfcn.h> exists
```

```
 and should
?C: be included.
?C:.
?H:#$i_dlfcn I_DLFCN  /**/
?H:.
?LINT:set i_dlfcn
: see if dlfcn is available
set dlfcn.h i_dlfcn
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_dlfcn.U
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```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_lseekproto: Hasproto i_systypes i_unistd
?MAKE: -pick add $@ %<
?S:d_lseekproto:
?S: This variable conditionally defines the HAS_LSEEK_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the lseek() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_LSEEK_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the lseek() function.  Otherwise, it is up
?C: to the program to supply one.  A good guess is
?C:  extern
 off_t lseek(int, off_t, int);
?C:.
?H:#$d_lseekproto HAS_LSEEK_PROTO /**/
?H:.
?LINT:set d_lseekproto
: see if prototype for lseek is available
echo " "
set d_lseekproto lseek $i_systypes sys/types.h $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/d_lseekproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libyacc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libyacc.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  16:09:19  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.3  1994/05/13  15:27:12  ram
?RCS: patch27: added byacc case (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:09:01  ram
?RCS: patch23: now uses full library path instead of -l notation
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:13:49  ram
?RCS: patch16: un-obsoleted this unit for smooth yacc compilations
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:09:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libyacc: Loc yacc libpth _a
?MAKE: -pick add $@ %<
?S:libyacc:
?S: This variable contains the argument to pass to the loader in order
?S: to get the yacc library routines.  If there is no yacc or yacc
?S: library, it is null.
?S:.
?T:xxx
: see if we should include -ly
echo " "
case "$yacc" in
*byacc*)
 echo "You are using byacc, so I won't look for a yacc library." >&4
 libyacc=''
 ;;
*yacc)
```

```
 xxx=`./loc liby$_a x $libpth`
 case "$xxx" in
 x)
  echo "No yacc library found." >&4
  libyacc=''
  ;;
 *)
  echo "yacc library found in $xxx." >&4
  libyacc="$xxx"
  ;;
 esac
 ;;
*bison*)
 echo "You are using bison, so I won't look for a yacc library." >&4
 libyacc=''
 ;;
*)
echo "You don't seem to have yacc, so I won't look for the yacc library." >&4
 libyacc=''
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/libyacc.U
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```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2010 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_prctl d_prctl_set_name: Inlibc cat Compile run rm_try
?MAKE: -pick add $@ %<
?S:d_prctl:
?S: This variable conditionally defines the HAS_PRCTL symbol, which
?S: indicates to the C program that the prctl() routine is available.
?S: Note that there are at least two prctl variants: Linux and Irix.
?S: While they are somewhat similar, they are incompatible.
?S:.
?S:d_prctl_set_name:
?S: This variable conditionally defines the HAS_PRCTL_SET_NAME symbol,
?S: which indicates to the C program that the prctl() routine supports
?S: the PR_SET_NAME option.
?S:.
?C:HAS_PRCTL:
```

```
?C: This symbol, if defined, indicates that the prctl routine is
?C: available to set process title.
?C: Note that there are at least two
 prctl variants: Linux and Irix.
?C: While they are somewhat similar, they are incompatible.
?C:.
?C:HAS_PRCTL_SET_NAME:
?C: This symbol, if defined, indicates that the prctl routine is
?C: available to set process title and supports PR_SET_NAME.
?C:.
?H:#$d_prctl HAS_PRCTL  /**/
?H:#$d_prctl_set_name HAS_PRCTL_SET_NAME  /**/
?H:.
?F:!try
?LINT:set d_prctl
: see if prctl exists
set prctl d_prctl
eval $inlibc

: see if prctl supports PR_SET_NAME
d_prctl_set_name=$undef
case $d_prctl in
   $define)
 $cat >try.c <<EOM
#ifdef __ANDROID__
#include <unistd.h>
#endif
#include <sys/prctl.h>

int main (int argc, char *argv[])
{
   return (prctl (PR_SET_NAME, "Test"));
   } /* main */
EOM
 set try
 if eval $compile_ok && $run ./try; then
     echo "Your prctl (PR_SET_NAME, ...) works"
     d_prctl_set_name=$define
     fi
 $rm_try
 ;;
   esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_prctl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_nearbyint: Inlibc
?MAKE: -pick add $@ %<
?S:d_nearbyint:
?S: This variable conditionally defines HAS_NEARBYINT if nearbyint()
?S: is available to return the integral value closest to (according to
?S: the current rounding mode) to x.
?S:.
?C:HAS_NEARBYINT:
?C: This symbol, if defined, indicates that the nearbyint routine is
?C: available to return the integral value closest to (according to
?C: the current rounding mode) to x.
?C:.
?H:#$d_nearbyint HAS_NEARBYINT  /**/
?H:.
?LINT:set d_nearbyint
: see if nearbyint exists
set nearbyint d_nearbyint
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_nearbyint.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setregid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setregid.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:12  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setregid d_setresgid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setregid:
?S: This variable conditionally defines HAS_SETREGID if setregid() is
?S: available to change the real and effective gid of the current
?S: process.
?S:.
```

```
?S:d_setresgid:
?S: This variable conditionally defines HAS_SETRESGID if setresgid() is
?S: available to change
 the real, effective and saved gid of the current
?S: process.
?S:.
?C:HAS_SETREGID (SETREGID):
?C: This symbol, if defined, indicates that the setregid routine is
?C: available to change the real and effective gid of the current
?C: process.
?C:.
?C:HAS_SETRESGID (SETRESGID):
?C: This symbol, if defined, indicates that the setresgid routine is
?C: available to change the real, effective and saved gid of the current
?C: process.
?C:.
?H:#$d_setregid HAS_SETREGID  /**/
?H:#$d_setresgid HAS_SETRESGID  /**/
?H:.
?LINT: set d_setregid d_setresgid
: see if setregid exists
set setregid d_setregid
eval $inlibc
set setresgid d_setresgid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setregid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysselct.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysselct.U,v $
?RCS: Revision 3.0.1.1  1993/08/25  14:01:33  ram
?RCS: patch6: added default for i_sysselct
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?X:
?X: Look wether <sys/select.h> exists
?X:
?MAKE:i_sysselct: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysselct:
?S: This variable conditionally defines I_SYS_SELECT, which indicates
?S: to the C program that it should include <sys/select.h> in
 order to
?S: get the definition of struct timeval.
?S:.
?C:I_SYS_SELECT (I_SYSSELECT):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/select.h> in order to get definition of struct timeval.
?C:.
?H:#$i_sysselct I_SYS_SELECT /**/
?H:.
?D:i_sysselct="
?LINT:set i_sysselct
: see if sys/select.h has to be included
set sys/select.h i_sysselct
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sysselct.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ffs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_ffs.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_ffs: Inlibc
?MAKE: -pick add $@ %<
?S:d_ffs:
?S: This variable conditionally defines the HAS_FFS symbol, which
?S: indicates to the C program that the ffs() routine is available
?S: to find the first bit which is set in its integer argument.
```

```
?S:.
?C:HAS_FFS:
?C: This symbol, if defined, indicates that the ffs routine is available
?C: to
 find the first bit set in its argument.  If it's not available,
?C: roll your own.
?C:.
?H:#$d_ffs HAS_FFS  /**/
?H:.
?LINT:set d_ffs
: see if ffs exists
set ffs d_ffs
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_ffs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Guess.U,v 3.0.1.5 1995/07/25 13:37:14 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Guess.U,v $
?RCS: Revision 3.0.1.5  1995/07/25  13:37:14  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  15:53:55  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: call ./xenix explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.3  1993/12/15  08:14:35  ram
?RCS: patch15: variable d_bsd was not always set properly
?RCS:
?RCS: Revision 3.0.1.2  1993/08/30  08:57:14  ram
?RCS:
 patch8: fixed comment which wrongly attributed the usrinc symbol
?RCS: patch8: no more ugly messages when no /usr/include/ctype.h
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:37:37  ram
?RCS: patch7: added support for OSF/1 machines
?RCS:
```

```
?RCS: Revision 3.0  1993/08/18  12:04:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit hazards some guesses as to what the general nature of the system
?X: is.  The information it collects here is used primarily to establish default
?X: answers to other questions.
?X:
?MAKE:Guess d_eunice d_xenix d_bsd: cat test echo n c contains \
 rm Loc eunicefix tr sysroot
?MAKE: -pick add $@ %<
?S:d_eunice:
?S: This variable conditionally defines the symbols EUNICE and VAX, which
?S: alerts the C program that it must deal with idiosyncrasies of VMS.
?S:.
?S:d_xenix:
?S: This variable conditionally defines the symbol XENIX, which alerts
?S: the C program that it runs under Xenix.
?S:.
?S:d_bsd:
?S: This symbol conditionally defines the
 symbol BSD when running on a
?S: BSD system.
?S:.
?C:EUNICE:
?C: This symbol, if defined, indicates that the program is being compiled
?C: under the EUNICE package under VMS.  The program will need to handle
?C: things like files that don't go away the first time you unlink them,
?C: due to version numbering.  It will also need to compensate for lack
?C: of a respectable link() command.
?C:.
?X: Should we define VMS here?  Is Eunice actually used anymore?
?X:?C:VMS:
?X:?C: This symbol, if defined, indicates that the program is running under
?X:?C: VMS.  It is currently only set in conjunction with the EUNICE symbol.
?X:?C:.
?C:XENIX:
?C: This symbol, if defined, indicates that the program is running under
?C: Xenix (at least 3.0 ?).
?C:.
?X:  We don't use BSD in the perl source.  It's too vague, and already
?X:  defined in some header files anyway (e.g. NetBSD).  This just gives
?X:  us a spurious redefinition error upon compilation.
?X: --Andy Dougherty  Feb 11, 1998
?X: ?C:BSD:
?X:
 ?C: This symbol, if defined, indicates that the program is running under
?X: ?C: a BSD system.
```

```
?X: ?C:.
?H:#$d_eunice EUNICE  /**/
?X:?H:#$d_eunice VMS  /**/
?H:#$d_xenix XENIX  /**/
?X: ?H:#$d_bsd BSD  /**/
?H:.
?F:./bsd ./usg ./v7 ./osf1 ./eunice ./xenix ./venix ./os2
?T:xxx
: make some quick guesses about what we are up against
echo " "
$echo $n "Hmm...  $c"
echo exit 1 >bsd
echo exit 1 >usg
echo exit 1 >v7
echo exit 1 >osf1
echo exit 1 >eunice
echo exit 1 >xenix
echo exit 1 >venix
echo exit 1 >os2
d_bsd="$undef"
?X:
?X: Do not use 'usrinc', or we get a circular dependency. because
?X: usrinc is defined in usrinc.U, which relies on us...
?X:
$cat $sysroot/usr/include/signal.h $sysroot/usr/include/sys/signal.h >foo 2>/dev/null
if test -f /osf_boot || $contains 'OSF/1' $sysroot/usr/include/ctype.h >/dev/null 2>&1
then
 echo "Looks kind of like an OSF/1 system, but we'll see..."
 echo exit 0 >osf1
elif test `echo abc | $tr a-z A-Z` = Abc ; then
 xxx=`./loc addbib blurfl $pth`
 if $test
 -f $xxx; then
 echo "Looks kind of like a USG system with BSD features, but we'll see..."
  echo exit 0 >bsd
  echo exit 0 >usg
 else
  if $contains SIGTSTP foo >/dev/null 2>&1 ; then
   echo "Looks kind of like an extended USG system, but we'll see..."
  else
   echo "Looks kind of like a USG system, but we'll see..."
  fi
  echo exit 0 >usg
 fi
elif $contains SIGTSTP foo >/dev/null 2>&1 ; then
 echo "Looks kind of like a BSD system, but we'll see..."
 d_bsd="$define"
 echo exit 0 >bsd
```

```
else
 echo "Looks kind of like a Version 7 system, but we'll see..."
 echo exit 0 >v7
fi
case "$eunicefix" in
*unixtovms*)
 $cat <<'EOI'
There is, however, a strange, musty smell in the air that reminds me of
something...hmm...yes...I've got it...there's a VMS nearby, or I'm a Blit.
EOI
 echo exit 0 >eunice
 d_eunice="$define"
: it so happens the Eunice I know will not run shell scripts in Unix format
 ;;
*)
 echo " "
 echo "Congratulations.  You aren't running Eunice."
 d_eunice="$undef"
 ;;
esac
: Detect
 OS2.  The p_ variable is set above in the Head.U unit.
: Note that this also -- wrongly -- detects e.g. dos-djgpp, which also uses
: semicolon as a patch separator
case "$p_" in
:) ;;
*)
 $cat <<'EOI'
I have the feeling something is not exactly right, however...don't tell me...
lemme think...does HAL ring a bell?...no, of course, you're only running OS/2!
(Or you may be running DOS with DJGPP.)
EOI
 echo exit 0 >os2
 ;;
esac
if test -f /xenix; then
 echo "Actually, this looks more like a XENIX system..."
 echo exit 0 >xenix
 d_xenix="$define"
else
 echo " "
 echo "It's not Xenix..."
 d_xenix="$undef"
fi
chmod +x xenix
$eunicefix xenix
if test -f /venix; then
 echo "Actually, this looks more like a VENIX system..."
```

```
 echo exit 0 >venix
else
 echo " "
 if ./xenix; then
  : null
 else
  echo "Nor is it Venix..."
 fi
fi
chmod +x bsd usg v7 osf1 eunice xenix venix os2
$eunicefix bsd usg v7 osf1 eunice xenix venix os2
$rm -f foo
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Guess.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setgrent.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_setgrent.U,v $
?RCS:
?MAKE:d_setgrent: Inlibc
?MAKE: -pick add $@ %<
?S:d_setgrent:
?S: This variable conditionally defines the HAS_SETGRENT symbol, which
?S: indicates to the C program that the setgrent() routine is available
?S: for initializing sequential access to the group database.
?S:.
?C:HAS_SETGRENT:
?C: This symbol, if defined, indicates that the setgrent routine is
?C: available for initializing sequential access of the group database.
?C:.
?H:#$d_setgrent HAS_SETGRENT  /**/
?H:.
?LINT:set d_setgrent
: see if setgrent exists
set setgrent d_setgrent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_setgrent.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_execinfo.U 34 2010-11-27 11:55:39Z rmanfredi $
?RCS:
?RCS: Copyright (c) 2011, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:i_execinfo: Inhdr
?MAKE: -pick add $@ %<
?S:i_execinfo:
?S: This variable conditionally defines the I_EXECINFO symbol, and indicates
?S: whether a C program may include <execinfo.h>, for backtrace() support.
?S:.
?C:I_EXECINFO:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <execinfo.h> for backtrace() support.
?C:.
?H:#$i_execinfo I_EXECINFO  /**/
?H:.
?LINT:set i_execinfo
: see if this is an execinfo.h system
set execinfo.h i_execinfo
eval
 $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_execinfo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: mallocsrc.U,v 3.0.1.2 1997/02/28 16:10:26 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: mallocsrc.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:10:26  ram
?RCS: patch61: added support for Free_t, the type of free()
```

```
?RCS: patch61: replaced .o with $_o all over the place
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:10:46  ram
?RCS: patch23: added support for MYMALLOC, mainly  for perl5 (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:12  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:mallocsrc mallocobj usemallocwrap usemymalloc
 malloctype d_mymalloc \
 freetype: Myread \
 Oldconfig package Guess Setvar rm cat +cc +ccflags Findhdr \
 i_malloc i_stdlib sed libs _o ptrsize useithreads
?MAKE: -pick add $@ %<
?X: Put near top so that other tests don't erroneously include
?X: -lmalloc.  --AD  22 June 1998
?Y:TOP
?S:usemymalloc:
?S: This variable contains y if the malloc that comes with this package
?S: is desired over the system's version of malloc.  People often include
?S: special versions of malloc for efficiency, but such versions are often
?S: less portable.  See also mallocsrc and mallocobj.
?S: If this is 'y', then -lmalloc is removed from $libs.
?S:.
?S:usemallocwrap:
?S: This variable contains y if we are wrapping malloc to prevent
?S: integer overflow during size calculations.
?S:.
?S:mallocsrc:
?S: This variable contains the name of the malloc.c that comes with
?S: the package, if that malloc.c is preferred over the system malloc.
?S: Otherwise the value is null.  This variable is intended for generating
?S: Makefiles.
?S:.
?S:d_mymalloc:
?S: This
 variable conditionally defines MYMALLOC in case other parts
?S: of the source want to take special action if MYMALLOC is used.
?S: This may include different sorts of profiling or error detection.
?S:.
?S:mallocobj:
?S: This variable contains the name of the malloc.o that this package
?S: generates, if that malloc.o is preferred over the system malloc.
?S: Otherwise the value is null.  This variable is intended for generating
?S: Makefiles.  See mallocsrc.
?S:.
?S:freetype:
?S: This variable contains the return type of free().  It is usually
```

```
?S: void, but occasionally int.
?S:.
?S:malloctype:
?S: This variable contains the kind of ptr returned by malloc and realloc.
?S:.
?C:Free_t:
?C: This variable contains the return type of free().  It is usually
?C: void, but occasionally int.
?C:.
?C:Malloc_t (MALLOCPTRTYPE):
?C: This symbol is the type of pointer returned by malloc and realloc.
?C:.
?H:#define Malloc_t $malloctype   /**/
?H:#define Free_t
 $freetype   /**/
?H:.
?C:PERL_MALLOC_WRAP:
?C: This symbol, if defined, indicates that we'd like malloc wrap checks.
?C:.
?H:#$usemallocwrap PERL_MALLOC_WRAP  /**/
?H:.
?C:MYMALLOC:
?C: This symbol, if defined, indicates that we're using our own malloc.
?C:.
?H:#$d_mymalloc MYMALLOC   /**/
?H:.
?LINT:extern usedevel
?LINT:change libs
?X: Cannot test for mallocsrc; it is the unit's name and there is a bug in
?X: the interpreter which defines all the names, even though they are not used.
@if mallocobj
: determine whether to use malloc wrapping
echo " "
case "$usemallocwrap" in
[yY]*|true|$define) dflt='y' ;;
[nN]*|false|$undef) dflt='n' ;;
*) case "$usedevel" in
 [yY]*|true|$define) dflt='y' ;;
 *) dflt='n' ;;
 esac
 ;;
esac
rp="Do you wish to wrap malloc calls to protect against potential overflows?"
. ./myread
usemallocwrap="$ans"
case "$ans" in
y*|true)
 usemallocwrap="$define" ;;
```

```
*)
 usemallocwrap="$undef" ;;
esac

: determine which malloc to compile in
echo " "
case "$usemymalloc"
 in
[yY]*|true|$define) dflt='y' ;;
[nN]*|false|$undef) dflt='n' ;;
*) case "$ptrsize" in
 4) dflt='y' ;;
 *) dflt='n' ;;
 esac
 if test "$useithreads" = "$define"; then dflt='n'; fi
 ;;
esac
rp="Do you wish to attempt to use the malloc that comes with $package?"
. ./myread
usemymalloc="$ans"
case "$ans" in
y*|true)
 usemymalloc='y'
 mallocsrc='malloc.c'
 mallocobj="malloc$_o"
 d_mymalloc="$define"
?X: Maybe libs.U should be dependent on mallocsrc.U, but then
?X: most packages that use dist probably don't supply their own
?X: malloc, so this is probably an o.k. compromise
 case "$libs" in
 *-lmalloc*)
  : Remove malloc from list of libraries to use
  echo "Removing unneeded -lmalloc from library list" >&4
  set `echo X $libs | $sed -e 's/-lmalloc / /' -e 's/-lmalloc$//'`
  shift
  libs="$*"
  echo "libs = $libs" >&4
  ;;
 esac
 ;;
*)
 usemymalloc='n'
 mallocsrc=''
 mallocobj=''
 d_mymalloc="$undef"
 ;;
esac
```

```
@end
@if MALLOCPTRTYPE || Malloc_t || Free_t
: compute the return types of
 malloc and free
echo " "
$cat >malloc.c <<END
#$i_malloc I_MALLOC
#$i_stdlib I_STDLIB
#include <stdio.h>
#include <sys/types.h>
#ifdef I_MALLOC
#include <malloc.h>
#endif
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#ifdef TRY_MALLOC
void *malloc();
#endif
#ifdef TRY_FREE
void free();
#endif
END
@if MALLOCPTRTYPE || Malloc_t
case "$malloctype" in
")
 if $cc $ccflags -c -DTRY_MALLOC malloc.c >/dev/null 2>&1; then
  malloctype='void *'
 else
  malloctype='char *'
 fi
 ;;
esac
echo "Your system wants malloc to return '$malloctype', it would seem." >&4
@end

@if Free_t
case "$freetype" in
")
 if $cc $ccflags -c -DTRY_FREE malloc.c >/dev/null 2>&1; then
  freetype='void'
 else
  freetype='int'
 fi
 ;;
esac
echo "Your system uses $freetype free(), it would seem." >&4
@end
```

```
$rm -f malloc.[co]
@end
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/mallocsrc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
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?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_mprotect: Inlibc
?MAKE: -pick add $@ %<
?S:d_mprotect:
?S: This variable conditionally defines HAS_MPROTECT if mprotect() is
?S: available to modify the access protection of a memory mapped file.
?S:.
?C:HAS_MPROTECT:
?C: This symbol, if defined, indicates that the mprotect system call is
?C: available to modify the access protection of a memory mapped file.
?C:.
?H:#$d_mprotect HAS_MPROTECT  /**/
?H:.
?LINT:set d_mprotect
: see if mprotect exists
set mprotect d_mprotect
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_mprotect.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_vprintf.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:59  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_vprintf d_charvspr: Guess cat +cc +ccflags Csym Setvar
?MAKE: -pick add $@ %<
?S:d_vprintf:
?S: This variable conditionally defines the HAS_VPRINTF symbol, which
?S: indicates to the C program that the vprintf() routine is available
?S: to printf with a pointer to an argument list.
?S:.
?S:d_charvspr:
?S: This variable conditionally defines CHARVSPRINTF if this system
?S: has
 vsprintf returning type (char*).  The trend seems to be to
?S: declare it as "int vsprintf()".
?S:.
?C:HAS_VPRINTF (VPRINTF):
?C: This symbol, if defined, indicates that the vprintf routine is available
?C: to printf with a pointer to an argument list.  If unavailable, you
?C: may need to write your own, probably in terms of _doprnt().
?C:.
?C:USE_CHAR_VSPRINTF (CHARVSPRINTF):
?C: This symbol is defined if this system has vsprintf() returning type
?C: (char*).  The trend seems to be to declare it as "int vsprintf()".  It
?C: is up to the package author to declare vsprintf correctly based on the
?C: symbol.
?C:.
?H:#$d_vprintf HAS_VPRINTF /**/
?H:#$d_charvspr USE_CHAR_VSPRINTF  /**/
?H:.
?F:!vprintf !vprintf.c
?T:val2
?LINT:set d_vprintf d_charvspr
: see if vprintf exists
echo " "
if set vprintf val -f d_vprintf; eval $csym; $val; then
 echo 'vprintf() found.' >&4
 val="$define"
 $cat >vprintf.c <<'EOF'
#include <varargs.h>

int main() { xxx("foo"); }

xxx(va_alist)
va_dcl
```

```
{
 va_list args;
 char
 buf[10];

 va_start(args);
 exit((unsigned long)vsprintf(buf,"%s",args) > 10L);
}
EOF
 if $cc $ccflags -o vprintf vprintf.c >/dev/null 2>&1 && ./vprintf; then
  echo "Your vsprintf() returns (int)." >&4
  val2="$undef"
 else
  echo "Your vsprintf() returns (char*)." >&4
  val2="$define"
 fi
else
 echo 'vprintf() NOT found.' >&4
  val="$undef"
  val2="$undef"
fi
set d_vprintf
eval $setvar
val=$val2
set d_charvspr
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_vprintf.U
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```
?RCS: $Id: d_getnent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_getnent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getnent: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_getnent:
?S: This variable conditionally defines HAS_GETNETENT if getnetent() is
?S: available to look up network names in some data base or another.
?S:.
?C:HAS_GETNETENT:
?C: This symbol, if defined, indicates that the getnetent() routine is
?C: available to look up network names in some data base
 or another.
?C:.
?H:#$d_getnent HAS_GETNETENT  /**/
?H:.
?LINT:set d_getnent
: see if getnetent exists
set getnetent d_getnent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_getnent.U
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```
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_inttypes: Inhdr cat rm_try Setvar Compile
?MAKE: -pick add $@ %<
?S:i_inttypes:
?S: This variable conditionally defines the I_INTTYPES symbol,
?S: and indicates whether a C program should include <inttypes.h>.
?S:.
?C:I_INTTYPES:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <inttypes.h>.
?C:.
?H:#$i_inttypes   I_INTTYPES              /**/
?H:.
?LINT:set i_inttypes
: see if inttypes.h is available
: we want a real compile instead of Inhdr because some systems
: have an inttypes.h
```

```
 which includes non-existent headers
echo " "
$cat >try.c <<EOCP
#include <inttypes.h>
int main() {
 static int32_t foo32 = 0x12345678;
}
EOCP
set try
if eval $compile; then
 echo "<inttypes.h> found." >&4
 val="$define"
else
 echo "<inttypes.h> NOT found." >&4
 val="$undef"
fi
$rm_try
set i_inttypes
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_inttypes.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_PORTAR.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_PORTAR.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:08:42  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:40  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_PORTAR: cat +cc rm Setvar
?MAKE: -pick add $@ %<
?S:d_PORTAR:
?S: This variable conditionally handles definition of PORTAR,
?S: a creation of greater minds than I can imagine.
?S:.
```

```
?C:PORTAR:
?C: This manifest constant must
 be defined to 1 for some implementations
?C: of ar.h to get the portable ar most everybody uses.
?C:.
?L:ar_fmag:
?L:ARFMAG:
?L:SARMAG:
?H:#$d_PORTAR PORTAR 1 /**/
?H:.
?F:!portar
?LINT:set d_PORTAR
: see if we need to define PORTAR
echo " "
echo 'Checking to see if we need to define PORTAR for portable archives...' >&4
$cat >portar.c <<'EOCP'
#include <ar.h>
int main() {
 char *arfmag = ARFMAG;
 int sarmag = SARMAG;
 struct ar_hdr arh;

 strncpy(arh.ar_fmag, arfmag, 2);

#ifdef PORTAR
 printf("D\n");
#else
 printf("U\n");
#endif
 exit(0);}
EOCP
if $cc -o portar portar.c >/dev/null 2>&1 || \
 $cc -DPORTAR=1 -o portar portar.c >/dev/null 2>&1 ; then
 case "`./portar`" in
 D)
  val="$define"
  echo "We'll be defining PORTAR for you."
  ;;
 U)
  val="$undef"
  echo "We don't seem to need PORTAR defined here."
  ;;
 *)
  val="$define"
  echo "(My test program gave me an unexpected value!)"
  echo "I'll just define PORTAR to be sure."
  ;;
 esac
```

```
else
 echo "(Strange, I couldn't get my test
 program to compile.)"
 echo "We'll just define PORTAR in this case."
 val="$define"
fi
set d_PORTAR
eval $setvar
$rm -f portar*
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_PORTAR.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_union_semun.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_union_semun.U,v $
?RCS:
?MAKE:d_union_semun d_semctl_semun d_semctl_semid_ds: Compile Setvar Myread run \
 cat rm_try d_sem
?MAKE: -pick add $@ %<
?S:d_union_semun:
?S: This variable conditionally defines HAS_UNION_SEMUN if the
?S: union semun is defined by including <sys/sem.h>.
?S:.
?S:d_semctl_semun:
?S: This variable conditionally defines USE_SEMCTL_SEMUN, which
?S: indicates that union semun is to be used for semctl IPC_STAT.
?S:.
?S:d_semctl_semid_ds:
?S: This variable conditionally defines USE_SEMCTL_SEMID_DS, which
?S: indicates that struct semid_ds * is to be used for semctl IPC_STAT.
?S:.
?C:HAS_UNION_SEMUN:
?C: This symbol, if defined, indicates that the union semun
 is
?C: defined by including <sys/sem.h>.  If not, the user code
?C: probably needs to define it as:
?C:  union semun {
?C:     int val;
?C:     struct semid_ds *buf;
?C:     unsigned short *array;
```

```
?C:  }
?C:.
?C:USE_SEMCTL_SEMUN:
?C: This symbol, if defined, indicates that union semun is
?C: used for semctl IPC_STAT.
?C:.
?C:USE_SEMCTL_SEMID_DS:
?C: This symbol, if defined, indicates that struct semid_ds * is
?C: used for semctl IPC_STAT.
?C:.
?H:#$d_union_semun HAS_UNION_SEMUN /**/
?H:#$d_semctl_semun USE_SEMCTL_SEMUN /**/
?H:#$d_semctl_semid_ds USE_SEMCTL_SEMID_DS /**/
?H:.
?T:xxx also
?F:!try !tryh.h
?LINT: set d_union_semun d_semctl_semun d_semctl_semid_ds
: see whether sys/sem.h defines union semun
echo " "
$cat > try.c <<'END'
#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/sem.h>
int main () { union semun semun; semun.buf = 0; }
END
set try
if eval $compile; then
   echo "You have union semun in <sys/sem.h>." >&4
   val="$define"
else
   echo "You do not have union
 semun in <sys/sem.h>." >&4
   val="$undef"
fi
$rm_try
set d_union_semun
eval $setvar

: see how to do semctl IPC_STAT
case "$d_sem" in
$define)
   echo " "
?X: use tryh.h instead of try.h because $rm_try cleans up try.*
   $cat > tryh.h <<END
#ifndef S_IRUSR
#   ifdef S_IREAD
# define S_IRUSR S_IREAD
# define S_IWUSR S_IWRITE
```

```
# define S_IXUSR S_IEXEC
#   else
# define S_IRUSR 0400
# define S_IWUSR 0200
# define S_IXUSR 0100
#   endif
#   define S_IRGRP (S_IRUSR>>3)
#   define S_IWGRP (S_IWUSR>>3)
#   define S_IXGRP (S_IXUSR>>3)
#   define S_IROTH (S_IRUSR>>6)
#   define S_IWOTH (S_IWUSR>>6)
#   define S_IXOTH (S_IXUSR>>6)
#endif
#ifndef S_IRWXU
#   define S_IRWXU (S_IRUSR|S_IWUSR|S_IXUSR)
#   define S_IRWXG (S_IRGRP|S_IWGRP|S_IXGRP)
#   define S_IRWXO (S_IROTH|S_IWOTH|S_IXOTH)
#endif
END
   : see whether semctl IPC_STAT can use union semun
   case "$d_semctl_semun" in
   ")
     val="$undef"
     $cat > try.c <<END
#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/sem.h>
#include
 <sys/stat.h>
#include <stdio.h>
#include <errno.h>
#include "tryh.h"
#ifndef errno
extern int errno;
#endif
#$d_union_semun HAS_UNION_SEMUN
int main() {
   union semun
#ifndef HAS_UNION_SEMUN
   {
 int val;
 struct semid_ds *buf;
 unsigned short *array;
   }
#endif
   arg;
   int sem, st;
```

```
#if defined(IPC_PRIVATE) && defined(S_IRWXU) && defined(S_IRWXG) && defined(S_IRWXO) &&
defined(IPC_CREAT)
   sem = semget(IPC_PRIVATE, 1, S_IRWXU|S_IRWXG|S_IRWXO|IPC_CREAT);
   if (sem > -1) {
 struct semid_ds argbuf;
 arg.buf = &argbuf;
# ifdef IPC_STAT
 st = semctl(sem, 0, IPC_STAT, arg);
 if (st == 0)
     printf("semun\n");
 else
# endif /* IPC_STAT */
     printf("semctl IPC_STAT failed: errno = %d\n", errno);
# ifdef IPC_RMID
 if (semctl(sem, 0, IPC_RMID, arg) != 0)
# endif /* IPC_RMID */
     printf("semctl IPC_RMID failed: errno = %d\n", errno);
   } else
#endif /* IPC_PRIVATE && ... */
 printf("semget failed: errno = %d\n", errno);
 return 0;
}
END
     set try

     if eval $compile; then
   xxx=`$run ./try`
         case "$xxx" in
         semun) val="$define" ;;
         esac
     fi
     $rm_try
     set d_semctl_semun
     eval $setvar
     ;;
   esac
   case "$d_semctl_semun" in
   $define)
       echo "You can use union semun for semctl IPC_STAT." >&4
 also='also'
       ;;
   *)  echo "You cannot use union semun for semctl IPC_STAT." >&4
 also=''
       ;;
   esac

   : see whether semctl IPC_STAT can use struct semid_ds pointer
   case "$d_semctl_semid_ds" in
```

```
   ")
     val="$undef"
     $cat > try.c <<'END'
#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/sem.h>
#include <sys/stat.h>
#include "tryh.h"
#include <stdio.h>
#include <errno.h>
#ifndef errno
extern int errno;
#endif
int main() {
   union semun
#ifndef HAS_UNION_SEMUN
   {
 int val;
 struct semid_ds *buf;
 unsigned short *array;
   }
#endif
   arg;
   struct semid_ds argbuf;
   int sem, st;

#if defined(IPC_PRIVATE) && defined(S_IRWXU) &&
 defined(S_IRWXG) &&  defined(S_IRWXO) && defined(IPC_CREAT)
   sem = semget(IPC_PRIVATE, 1, S_IRWXU|S_IRWXG|S_IRWXO|IPC_CREAT);
   if (sem > -1) {
 arg.buf = &argbuf;
# ifdef IPC_STAT
 st = semctl(sem, 0, IPC_STAT, arg);
 if (st == 0)
     printf("semid_ds\n");
 else
# endif /* IPC_STAT */
     printf("semctl IPC_STAT failed: errno = %d\n", errno);
# ifdef IPC_RMID
 if (semctl(sem, 0, IPC_RMID, arg) != 0)
# endif /* IPC_RMID */
     printf("semctl IPC_RMID failed: errno = %d\n", errno);
   } else
#endif /* IPC_PRIVATE && ... */
 printf("semget failed: errno = %d\n", errno);

   return 0;
}
```

```
END
    set try
    if eval $compile; then
        xxx=`$run ./try`
        case "$xxx" in
        semid_ds) val="$define" ;;
        esac
    fi
    $rm_try
    set d_semctl_semid_ds
    eval $setvar
    ;;
  esac
  case "$d_semctl_semid_ds" in
  $define)
      echo "You can $also use struct semid_ds* for semctl IPC_STAT." >&4
      ;;
  *)  echo "You cannot use
 struct semid_ds* for semctl IPC_STAT." >&4
      ;;
  esac
  ;;
*)  val="$undef"

  # We do not have the full sem*(2) library, so assume we can not
  # use either.

  set d_semctl_semun
  eval $setvar

  set d_semctl_semid_ds
  eval $setvar
  ;;
esac
$rm_try tryh.h
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_union_semun.U
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```
?RCS: $Id: d_msem_lck.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msem_lck.U,v $
?MAKE:d_msem_lck: Inlibc
?MAKE: -pick add $@ %<
?S:d_msem_lck:
?S: This variable conditionally defines HAS_MSEM_LOCK if msem_lock() is
?S: available, thereby indicating kernel support for memory semaphores.
?S:.
?C:HAS_MSEM_LOCK:
?C: This symbol, if defined, indicates that memory semaphores are
?C: available to protect mmap()'ed regions.
?C:.
?H:#$d_msem_lck HAS_MSEM_LOCK  /**/
?H:.
?LINT:set d_msem_lck
: see if msem_lock exists
set
 msem_lock d_msem_lck
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_msem_lck.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_ilogb: Inlibc
?MAKE: -pick add $@ %<
?S:d_ilogb:
?S: This variable conditionally defines the HAS_ILOGB symbol, which
?S: indicates to the C program that the ilogb() routine is available
?S: for extracting the exponent of double x as a signed integer.
?S:.
?C:HAS_ILOGB:
?C: This symbol, if defined, indicates that the ilogb routine is
?C: available to get integer exponent of a floating-point value.
?C:.
?H:#$d_ilogb HAS_ILOGB  /**/
?H:.
?LINT:set d_ilogb
: see if ilogb exists
set ilogb d_ilogb
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_ilogb.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_mbrlen: Inlibc
?MAKE: -pick add $@ %<
?S:d_mbrlen:
?S: This variable conditionally defines the HAS_MBRLEN symbol if the
?S: mbrlen() routine is available to be used to get the length of
?S: multi-byte character strings.
?S:.
?C:HAS_MBRLEN:
?C: This symbol, if defined, indicates that the mbrlen routine is
?C: available to get the length of multi-byte character strings.
?C:.
?H:#$d_mbrlen HAS_MBRLEN /**/
?H:.
?LINT: set d_mbrlen
: see if mbrlen exists
set mbrlen d_mbrlen
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_mbrlen.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fchmod.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_fchmod.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:59  ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_fchmod: Inlibc
?MAKE: -pick add $@ %<
?S:d_fchmod:
?S: This variable conditionally defines the HAS_FCHMOD symbol, which
?S: indicates to the C program that the fchmod() routine is available
?S: to change mode of opened files.
?S:.
?C:HAS_FCHMOD (FCHMOD):
?C: This symbol, if defined, indicates that the fchmod routine is available
?C: to
 change mode of opened files.  If unavailable, use chmod().
?C:.
?H:#$d_fchmod HAS_FCHMOD  /**/
?H:.
?LINT:set d_fchmod
: see if fchmod exists
set fchmod d_fchmod
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_fchmod.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2009 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getaddrinfo: Inlibc
?MAKE: -pick add $@ %<
?S:d_getaddrinfo:
?S: This variable conditionally defines the HAS_GETADDRINFO symbol,
?S: which indicates to the C program that the getaddrinfo() function
?S: is available.
?S:.
?C:HAS_GETADDRINFO:
?C: This symbol, if defined, indicates that the getaddrinfo() function
?C: is available for use.
?C:.
?H:#$d_getaddrinfo HAS_GETADDRINFO  /**/
?H:.
?LINT:set d_getaddrinfo
: see if getaddrinfo exists
```

```
set getaddrinfo d_getaddrinfo
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_getaddrinfo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sysconf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_sysconf.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:15:57  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_sysconf: Inlibc
?MAKE: -pick add $@ %<
?S:d_sysconf:
?S: This variable conditionally defines the HAS_SYSCONF symbol, which
?S: indicates to the C program that the sysconf() routine is available
?S: to determine system related limits and options.
?S:.
?C:HAS_SYSCONF:
?C: This
 symbol, if defined, indicates that sysconf() is available
?C: to determine system related limits and options.
?C:.
?H:#$d_sysconf HAS_SYSCONF /**/
?H:.
?LINT:set d_sysconf
: see if sysconf exists
set sysconf d_sysconf
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sysconf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getspnam_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getspnam_r getspnam_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_shadow extern_C
?MAKE: -pick add $@ %<
?S:d_getspnam_r:
?S: This variable conditionally defines the HAS_GETSPNAM_R symbol,
?S: which indicates to the C program that the getspnam_r()
?S: routine is available.
?S:.
?S:getspnam_r_proto:
?S: This variable encodes the prototype of getspnam_r.
?S: It is zero if d_getspnam_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getspnam_r
?S: is defined.
?S:.
?C:HAS_GETSPNAM_R:
?C: This symbol, if defined, indicates that the getspnam_r routine
?C: is available
 to getspnam re-entrantly.
?C:.
?C:GETSPNAM_R_PROTO:
?C: This symbol encodes the prototype of getspnam_r.
?C: It is zero if d_getspnam_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getspnam_r
?C: is defined.
?C:.
?H:#$d_getspnam_r HAS_GETSPNAM_R /**/
?H:#define GETSPNAM_R_PROTO $getspnam_r_proto /**/
?H:.
?T:try hdrs d_getspnam_r_proto
: see if getspnam_r exists
set getspnam_r d_getspnam_r
eval $inlibc
case "$d_getspnam_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_shadow shadow.h"
 case "$d_getspnam_r_proto:$usethreads" in
 ":define") d_getspnam_r_proto=define
  set d_getspnam_r_proto getspnam_r $hdrs
  eval $hasproto ;;
 *) ;;
```

```
 esac
 case "$d_getspnam_r_proto" in
 define)
 case "$getspnam_r_proto" in
 "|0) try='int getspnam_r(const char*, struct spwd*, char*, size_t, struct spwd**);'
 ./protochk "$extern_C $try" $hdrs && getspnam_r_proto=I_CSBWR ;;
 esac
 case "$getspnam_r_proto" in
 "|0) try='struct spwd* getspnam_r(const char*, struct
 spwd*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getspnam_r_proto=S_CSBI ;;
 esac
 case "$getspnam_r_proto" in
 "|0) d_getspnam_r=undef
  getspnam_r_proto=0
  echo "Disabling getspnam_r, cannot determine prototype." >&4 ;;
 * ) case "$getspnam_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getspnam_r_proto="REENTRANT_PROTO_$getspnam_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getspnam_r has no prototype, not using it." >&4 ;;
  esac
  d_getspnam_r=undef
  getspnam_r_proto=0
  ;;
 esac
 ;;
*) getspnam_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getspnam_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_flock.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_flock.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_flock: Inlibc
?MAKE: -pick add $@ %<
?S:d_flock:
?S: This variable conditionally defines HAS_FLOCK if flock() is
?S: available to do file locking.
?S:.
?C:HAS_FLOCK (FLOCK):
?C: This symbol, if defined, indicates that the flock routine is
?C: available to do file locking.
?C:.
?H:#$d_flock HAS_FLOCK  /**/
?H:.
?LINT:set d_flock
: see
 if flock exists
set flock d_flock
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_flock.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fsetpos.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_fsetpos.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  06:57:38  ram
?RCS: patch30: created
?RCS:
?MAKE:d_fsetpos: Inlibc
?MAKE: -pick add $@ %<
?S:d_fsetpos:
?S: This variable conditionally defines HAS_FSETPOS if fsetpos() is
?S: available to set the file position indicator.
```

```
?S:.
?C:HAS_FSETPOS:
?C: This symbol, if defined, indicates that the fsetpos routine is
?C: available to set the file position indicator, similar to fseek().
?C:.
?H:#$d_fsetpos
 HAS_FSETPOS /**/
?H:.
?LINT:set d_fsetpos
: see if fsetpos exists
set fsetpos d_fsetpos
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_fsetpos.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fp_class: Inlibc
?MAKE: -pick add $@ %<
?S:d_fp_class:
?S: This variable conditionally defines the HAS_FP_CLASS symbol, which
?S: indicates to the C program that the fp_class() routine is available.
?S:.
?C:HAS_FP_CLASS:
?C: This symbol, if defined, indicates that the fp_class routine is
?C: available to classify doubles.  Available for example in Digital UNIX.
?C: The returned values are defined in <math.h> and are:
?C:
?C: FP_SNAN           Signaling NaN (Not-a-Number)
?C: FP_QNAN           Quiet NaN (Not-a-Number)
?C: FP_POS_INF        +infinity
?C: FP_NEG_INF        -infinity
?C: FP_POS_NORM       Positive normalized
?C: FP_NEG_NORM       Negative normalized
?C: FP_POS_DENORM     Positive denormalized
?C: FP_NEG_DENORM
    Negative denormalized
?C: FP_POS_ZERO       +0.0 (positive zero)
?C: FP_NEG_ZERO       -0.0 (negative zero)
?C:.
```

```
?H:#$d_fp_class HAS_FP_CLASS  /**/
?H:.
?LINT:set d_fp_class
: see if fp_class exists
set fp_class d_fp_class
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fp_class.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_NOFILE.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:08:38  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:nofile d_gettblsz tablesize: Myread Guess cat +cc +ccflags +libs \
 test rm Csym
?MAKE: -pick add $@ %<
?S:nofile:
?S: This variable contains the number of file descriptors available to the
?S: process.
?S:.
?S:d_gettblsz:
?S: This variable conditionally handles remapping
 of the getdtablesize()
?S: subroutine to ulimit(4,0), or the NOFILE manifest constant.
?S:.
?S:tablesize:
?S: This variable contains either the 'NOFILE' constant or 'ulimit(4, 0L)'
?S: and is used as the remapped value for the getdtablesize() macro.
?S:.
?C:getdtablesize:
?C: This catches use of the getdtablesize() subroutine, and remaps it
?C: to either ulimit(4,0) or NOFILE, if getdtablesize() isn't available.
```

```
?C:.
?C:VAL_NOFILE:
?C: This symbol contains the number of file descriptors available to the
?C: process, as determined at configuration time. Unless a static constant
?C: is needed, you should rely on getdtablesize() to obtain that number.
?C:.
?H:#$d_gettblsz getdtablesize() $tablesize /**/
?H:#define VAL_NOFILE $nofile /* Number of file descriptors */
?H:.
?F:!nofile
?T:d_ulimit4 val
: see if getdtablesize exists
echo " "
?X: Revert logical value (d_gettblsz is undef iff getdtablesize is present)
case "$d_gettblsz" in
$define) d_gettblsz="$undef";;
$undef) d_gettblsz="$define";;
esac
if
 set getdtablesize val -f d_gettblsz; eval $csym; $val; then
 echo 'getdtablesize() found.' >&4
 d_gettblsz="$undef"
 tablesize=''
@if VAL_NOFILE || nofile
 $cat >nofile.c <<'EOCP'
#include <stdio.h>
int main()
{
 printf("%d\n", getdtablesize());
}
EOCP
 nofile=''
 if $cc $ccflags -o nofile nofile.c $libs >/dev/null 2>&1; then
  nofile=`./nofile 2>/dev/null`
 fi
 if $test "$nofile"; then
  echo "(You have $nofile file descriptors available per process.)"
 else
  nofile='20'
  if ./bsd; then
   nofile='64'
  fi
 echo "(Hmm... Let's say you have $nofile file descriptors available.)"
 fi
@end
else
 echo 'getdtablesize() NOT found...' >&4
 if set ulimit val -f; eval $csym; $val; then
```

```
  echo 'Maybe ulimit(4,0) will work...'
  $cat >nofile.c <<'EOCP'
#include <stdio.h>
#ifdef GETPARAM_H
#include <sys/param.h>
#endif
int main()
{
 printf("%d %d\n",
#ifdef NOFILE
  NOFILE,
#else
  0,
#endif
  ulimit(4,0));
  exit(0);
}
EOCP
  if $cc $ccflags -DGETPARAM_H -o nofile nofile.c $libs
 >/dev/null 2>&1 \
   || $cc $ccflags -o nofile nofile.c $libs >/dev/null 2>&1 ; then
   set `./nofile`
   d_gettblsz=$1
   d_ulimit4=$2
   if $test "$d_ulimit4" -lt 0; then
    echo "Your ulimit() call doesn't tell me what I want to know."
    echo "We'll just use NOFILE in this case."
    nofile=$d_gettblsz
    d_gettblsz="$define"
    tablesize='NOFILE'
   else
    if $test "$d_gettblsz" -gt 0; then
    echo "Your system defines NOFILE to be $d_gettblsz, and" >&4
    else
    echo "I had trouble getting NOFILE from your system, but" >&4
    fi
echo "ulimit returns $d_ulimit4 as the number of available file descriptors." >&4
    dflt='y';
    echo " "
 rp='Should I use ulimit to get the number of available file descriptors?'
    . ./myread
    case "$ans" in
    y*)
     nofile=$d_ulimit4
     d_gettblsz="$define"
     tablesize='ulimit(4, 0L)'
     echo "Using ulimit(4,0)."
     ;;
```

```
    *)
     nofile=$d_gettblsz
     d_gettblsz="$define"
     tablesize='NOFILE'
     echo "Using NOFILE."
     ;;
    esac
   fi
  else
   echo
 "Strange, I couldn't get my test program to compile."
   echo "We'll just use NOFILE in this case."
   d_gettblsz="$define"
   tablesize='NOFILE'
   nofile=''
  fi
 else
  echo 'Using NOFILE instead.'
  d_gettblsz="$define"
  tablesize='NOFILE'
  nofile=''
 fi
fi
@if VAL_NOFILE || nofile
case "$nofile" in
'')
 $cat >nofile.c <<'EOCP'
#include <stdio.h>
#ifdef GETPARAM_H
#include <sys/param.h>
#endif
int main()
{
 printf("%d\n",
#ifdef NOFILE
  NOFILE,
#else
  0,
#endif
  );
  exit(0);
}
EOCP
 if $cc $ccflags -DGETPARAM_H -o nofile nofile.c $libs >/dev/null 2>&1 \
  || $cc $ccflags -o nofile nofile.c $libs >/dev/null 2>&1 ; then
  nofile=`./nofile 2>/dev/null`
 fi
 if $test "$nofile"; then
```

```
  echo "(You have $nofile file descriptors available per process.)"
 else
  nofile='20'
  if ./bsd; then
   nofile='64'
  fi
 echo "(Hmm... Let's say you have $nofile file descriptors available.)"
 fi
 ;;
esac
@end
$rm -f nofile*
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_NOFILE.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_gdbm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_gdbm.U,v $
?RCS: Revision 3.0.1.1  1995/05/12  12:16:39  ram
?RCS: patch54: made more robust by checking both header and lib (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_gdbm: Inhdr Inlibc Setvar
?MAKE: -pick add $@ %<
?S:i_gdbm (d_gdbm):
?S: This variable conditionally defines the I_GDBM symbol, which
?S: indicates to the C program that <gdbm.h> exists and should
?S: be included.
?S:.
?C:I_GDBM
 (HAS_GDBM):
?C: This symbol, if defined, indicates that <gdbm.h> exists and should
?C: be included.
?C:.
?H:#$i_gdbm I_GDBM /**/
```

```
?H:.
?T:t_gdbm d_gdbm_open
?LINT:set i_gdbm
: see if gdbm.h is available
?X: t_gdbm is a tentative check. We might just have the .h, not the lib -- ADO
set gdbm.h t_gdbm
eval $inhdr
case "$t_gdbm" in
$define)
 : see if gdbm_open exists
 set gdbm_open d_gdbm_open
 eval $inlibc
 case "$d_gdbm_open" in
 $undef)
  t_gdbm="$undef"
  echo "We won't be including <gdbm.h>"
  ;;
 esac
 ;;
esac
val="$t_gdbm"
set i_gdbm
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_gdbm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_usleepproto: Hasproto i_unistd
?MAKE: -pick add $@ %<
?S:d_usleepproto:
?S: This variable conditionally defines the HAS_USLEEP_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the usleep() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_USLEEP_PROTO:
```

```
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the usleep() function.  Otherwise, it is up
?C: to the program to supply one.  A good guess is
?C:  extern int
 usleep(useconds_t);
?C:.
?H:#$d_usleepproto HAS_USLEEP_PROTO /**/
?H:.
?LINT:set d_usleepproto
: see if prototype for usleep is available
echo " "
set d_usleepproto usleep $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_usleepproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endhent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_endhent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_endhent: Inlibc
?MAKE: -pick add $@ %<
?S:d_endhent:
?S: This variable conditionally defines HAS_ENDHOSTENT if endhostent() is
?S: available to close whatever was being used for host queries.
?S:.
?C:HAS_ENDHOSTENT:
?C: This symbol, if defined, indicates that the endhostent() routine is
?C: available to close whatever was being used for host
 queries.
?C:.
?H:#$d_endhent HAS_ENDHOSTENT  /**/
?H:.
?LINT:set d_endhent
: see if endhostent exists
```

```
set endhostent d_endhent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_endhent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_bzero.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_bzero.U,v $
?RCS: Revision 3.0.1.2  1993/10/16  13:48:15  ram
?RCS: patch12: added magic support for bzero()
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:01:33  ram
?RCS: patch10: now only defines HAS_BZERO, no macro remap on memset (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_bzero: Inlibc
?MAKE: -pick add $@ %<
?S:d_bzero:
?S: This variable conditionally defines the HAS_BZERO
 symbol if
?S: the bzero() routine is available to set memory to 0.
?S:.
?C:HAS_BZERO:
?C: This symbol is defined if the bzero() routine is available to
?C: set a memory block to 0.
?C:.
?H:#$d_bzero HAS_BZERO /**/
?H:.
?M:bzero: HAS_BZERO
?M:#ifndef HAS_BZERO
?M:#ifndef bzero
?M:#define bzero(s,l) memset((s),0,(l))
?M:#endif
?M:#endif
?M:.
```

```
?LINT:set d_bzero
: see if bzero exists
set bzero d_bzero
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_bzero.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fchown.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_fchown.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_fchown: Inlibc
?MAKE: -pick add $@ %<
?S:d_fchown:
?S: This variable conditionally defines the HAS_FCHOWN symbol, which
?S: indicates to the C program that the fchown() routine is available
?S: to change ownership of opened files.
?S:.
?C:HAS_FCHOWN (FCHOWN):
?C: This symbol, if defined, indicates that the fchown routine is available
?C: to
 change ownership of opened files.  If unavailable, use chown().
?C:.
?H:#$d_fchown HAS_FCHOWN  /**/
?H:.
?LINT:set d_fchown
: see if fchown exists
set fchown d_fchown
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_fchown.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fgetpos.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_fgetpos.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  06:57:33  ram
?RCS: patch30: created
?RCS:
?MAKE:d_fgetpos: Inlibc
?MAKE: -pick add $@ %<
?S:d_fgetpos:
?S: This variable conditionally defines HAS_FGETPOS if fgetpos() is
?S: available to get the file position indicator.
?S:.
?C:HAS_FGETPOS:
?C: This symbol, if defined, indicates that the fgetpos routine is
?C: available to get the file position indicator, similar to ftell().
?C:.
?H:#$d_fgetpos
 HAS_FGETPOS /**/
?H:.
?LINT:set d_fgetpos
: see if fgetpos exists
set fgetpos d_fgetpos
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_fgetpos.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_ualarm: Inlibc
?MAKE: -pick add $@ %<
?S:d_ualarm:
?S: This variable conditionally defines the HAS_UALARM symbol, which
```

```
?S: indicates to the C program that the ualarm() routine is available.
?S:.
?C:HAS_UALARM:
?C: This symbol, if defined, indicates that the ualarm routine is
?C: available to do alarms with microsecond granularity.
?C:.
?H:#$d_ualarm HAS_UALARM  /**/
?H:.
?LINT:set d_ualarm
: see if ualarm exists
set ualarm d_ualarm
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_ualarm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_csh.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:32:18  ram
?RCS: patch61: added full_csh to preserve the full path even when portable
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:53  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_csh full_csh: csh Setvar
?MAKE: -pick add $@ %<
?S:d_csh:
?S: This variable conditionally defines the CSH symbol, which
?S: indicates to the C program that the C-shell exists.
?S:.
?S:full_csh:
?S: This variable contains the full pathname to 'csh', whether
 or
?S: not the user has specified 'portability'.  This is only used
?S: in the compiled C program, and we assume that all systems which
?S: can share this executable will have the same full pathname to
?S: 'csh.'
```

```
?S:.
?C:HAS_CSH:
?C: This symbol, if defined, indicates that the C-shell exists.
?C:.
?C:CSH:
?C: This symbol, if defined, contains the full pathname of csh.
?C:.
?X: Previously, I just did $d_csh CSH "$full_csh", but that caused
?X: problems on VMS where the config.sh extraction program changes
?X: $undef to a real cpp undef, and they then had  #undef CSH ""
?X: which the compiler didn't like.  It's easy to work around this,
?X: so I did.  --AD  3/1998.
?X: And we don't want to define CSH if !HAS_CSH, but we don't want
?X: those lines in config.h if they don't need CSH, so protect with ?CSH
?X: and not ?%<. --RAM, 15/02/2004
?H:?%<:#$d_csh HAS_CSH  /**/
?H:?CSH:#ifdef HAS_CSH
?H:?CSH:#define CSH "$full_csh" /**/
?H:?CSH:#endif
?H:.
?LINT:set d_csh
: get csh whereabouts
case
 "$csh" in
'csh') val="$undef" ;;
*) val="$define" ;;
esac
set d_csh
eval $setvar
: Respect a hint or command line value for full_csh.
case "$full_csh" in
'') full_csh=$csh ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_csh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: pkgsrc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?MAKE:pkgsrc: src rsrc
?MAKE: -pick add $@ %<
?S:pkgsrc:
?S: This variable holds the absolute path of the package source.
?S:.
?C:PACKAGE_SOURCE_DIR:
?C: Holds the directory name holding the package source.
?C:.
?H:#define PACKAGE_SOURCE_DIR "$pkgsrc"
?H:.
: define absolute package source directory
case "$src" in
/*) pkgsrc=$src;;
*) pkgsrc=`cd $rsrc; pwd`;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/pkgsrc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_truncate.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_truncate.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_truncate: Inlibc
?MAKE: -pick add $@ %<
?S:d_truncate:
?S: This variable conditionally defines HAS_TRUNCATE if truncate() is
?S: available to truncate files.
?S:.
?C:HAS_TRUNCATE (TRUNCATE):
?C: This symbol, if defined, indicates that the truncate routine is
?C: available to truncate files.
?C:.
?H:#$d_truncate HAS_TRUNCATE /**/
?H:.
```

```
?LINT:set
 d_truncate
: see if truncate exists
set truncate d_truncate
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_truncate.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Tye McQueen <tye@metronet.com> added safe setuid script checks.
?RCS:
?RCS: $Log: d_dosuid.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:33:03  ram
?RCS: patch61: moved unit to TOP via a ?Y: layout directive
?RCS: patch61: tell them /dev/fd is not about floppy disks
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:12:08  ram
?RCS: patch36: added checks for secure setuid scripts (Tye McQueen)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_dosuid
 d_suidsafe: cat contains ls rm test Myread Setvar \
 Oldconfig Guess package hint
?MAKE: -pick add $@ %<
?S:d_suidsafe:
?S: This variable conditionally defines SETUID_SCRIPTS_ARE_SECURE_NOW
?S: if setuid scripts can be secure.  This test looks in /dev/fd/.
?S:.
?S:d_dosuid:
?S: This variable conditionally defines the symbol DOSUID, which
?S: tells the C program that it should insert setuid emulation code
?S: on hosts which have setuid #! scripts disabled.
?S:.
?C:SETUID_SCRIPTS_ARE_SECURE_NOW:
```

```
?C: This symbol, if defined, indicates that the bug that prevents
?C: setuid scripts from being secure is not present in this kernel.
?C:.
?C:DOSUID:
?C: This symbol, if defined, indicates that the C program should
?C: check the script that it is executing for setuid/setgid bits, and
?C: attempt to emulate setuid/setgid on systems that have disabled
?C: setuid #! scripts because the kernel can't do it securely.
?C: It is up to the package designer to make sure that this emulation
?C: is done securely.
  Among other things, it should do an fstat on
?C: the script it just opened to make sure it really is a setuid/setgid
?C: script, it should make sure the arguments passed correspond exactly
?C: to the argument on the #! line, and it should not trust any
?C: subprocesses to which it must pass the filename rather than the
?C: file descriptor of the script to be executed.
?C:.
?H:#$d_suidsafe SETUID_SCRIPTS_ARE_SECURE_NOW /**/
?H:#$d_dosuid DOSUID  /**/
?H:.
?Y:TOP
?F:!reflect
?LINT: set d_suidsafe
?LINT: set d_dosuid
: see if setuid scripts can be secure
$cat <<EOM

Some kernels have a bug that prevents setuid #! scripts from being
secure.  Some sites have disabled setuid #! scripts because of this.

First let's decide if your kernel supports secure setuid #! scripts.
(If setuid #! scripts would be secure but have been disabled anyway,
don't say that they are secure if asked.)

EOM

val="$undef"
if $test -d /dev/fd; then
 echo "#!$ls" >reflect
 chmod +x,u+s reflect
 ./reflect >flect
 2>&1
 if $contains "/dev/fd" flect >/dev/null; then
  echo "Congratulations, your kernel has secure setuid scripts!" >&4
  val="$define"
 else
  $cat <<EOM
If you are not sure if they are secure, I can check but I'll need a
```

```
username and password different from the one you are using right now.
If you don't have such a username or don't want me to test, simply
enter 'none'.

EOM
  rp='Other username to test security of setuid scripts with?'
  dflt='none'
  . ./myread
  case "$ans" in
  n|none)
   case "$d_suidsafe" in
   ") echo "I'll assume setuid scripts are *not* secure." >&4
    dflt=n;;
   "$undef")
    echo "Well, the $hint value is *not* secure." >&4
    dflt=n;;
   *) echo "Well, the $hint value *is* secure." >&4
    dflt=y;;
   esac
   ;;
  *)
   $rm -f reflect flect
   echo "#!$ls" >reflect
   chmod +x,u+s reflect
   echo >flect
   chmod a+w flect
   echo '"su" will (probably) prompt you for '"$ans's password."
   su $ans -c './reflect >flect'
   if $contains "/dev/fd" flect
 >/dev/null; then
    echo "Okay, it looks like setuid scripts are secure." >&4
    dflt=y
   else
    echo "I don't think setuid scripts are secure." >&4
    dflt=n
   fi
   ;;
  esac
  rp='Does your kernel have *secure* setuid scripts?'
  . ./myread
  case "$ans" in
  [yY]*) val="$define";;
  *) val="$undef";;
  esac
 fi
else
 echo "I don't think setuid scripts are secure (no /dev/fd directory)." >&4
 echo "(That's for file descriptors, not floppy disks.)"
```

```
 val="$undef"
fi
set d_suidsafe
eval $setvar

$rm -f reflect flect

: now see if they want to do setuid emulation
echo " "
val="$undef"
case "$d_suidsafe" in
"$define")
 val="$undef"
 echo "No need to emulate SUID scripts since they are secure here." >& 4
 ;;
*)
 $cat <<EOM
Some systems have disabled setuid scripts, especially systems where
setuid scripts cannot be secure.  On systems where setuid scripts have
been disabled, the setuid/setgid bits on scripts are currently
useless.  It is possible for $package to detect those bits
 and emulate
setuid/setgid in a secure fashion.  This emulation will only work if
setuid scripts have been disabled in your kernel.

EOM
 case "$d_dosuid" in
 "$define") dflt=y ;;
 *) dflt=n ;;
 esac
 rp="Do you want to do setuid/setgid emulation?"
 . ./myread
 case "$ans" in
 [yY]*) val="$define";;
 *) val="$undef";;
 esac
 ;;
esac
set d_dosuid
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_dosuid.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_endsent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:

```
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_endsent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_endsent: Inlibc
?MAKE: -pick add $@ %<
?S:d_endsent:
?S: This variable conditionally defines HAS_ENDSERVENT if endservent() is
?S: available to close whatever was being used for service queries.
?S:.
?C:HAS_ENDSERVENT:
?C: This symbol, if defined, indicates that the endservent() routine is
?C: available to close whatever was being used for
 service queries.
?C:.
?H:#$d_endsent HAS_ENDSERVENT  /**/
?H:.
?LINT:set d_endsent
: see if endservent exists
set endservent d_endsent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_endsent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_scannl.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:41:27  ram
?RCS: patch61: added ?F: metalint hint
```

```
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  13:59:12  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:00  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Does the scanf routine read "\n" correctly ? This is was not
?X: the case on AIX...
?X:
?MAKE:d_scannl: cat +cc +ccflags rm Setvar
?MAKE: -pick add $@ %<
?S:d_scannl:
?S: This
 variable conditionally defines SCAN_NL, which indicates
?S: wether the C library routines scanf() and friends can deal with
?S: a '\n' in the input correctly. They do most of the time.
?S:.
?C:SCAN_NL:
?C: This symbol is defined if the C library routines scanf() and friends
?C: can deal with a '\n' in the input correctly, so that you can say
?C: scanf("%d\n"); instead of scanf("%d"); getc(c); to handle the '\n'.
?C:.
?H:#$d_scannl SCAN_NL  /* scanf("%d\n") works */
?H:.
?F:!try
?LINT:set d_scannl
: does scanf handle "\n" correctly ?
echo " "
val="$define"
?X: I really want to say "\n" instead of '\n', because I am referring
?X: to the string given as argument to scanf().
echo 'Let""""s see if scanf() handles "\\n" correctly...' >&4
$cat >try.c <<'EOCP'
int main()
{
 int i = 0, j = 0;
 scanf("%d\n%d", &i, &j);
 if (j != 3)
  exit(1);
 exit(0);
}
EOCP
if $cc $ccflags -o try try.c >/dev/null 2>&1; then
 if ./try <<'EOD'
2
3
```

```
EOD
 then
  echo "Yes, it does."
 else
  echo "No, it doesn't."
  val="$undef"
 fi
else
 echo
 "(I can't seem to compile the test program. Assuming it does.)"
fi
set d_scannl
eval $setvar
$rm -f try.* try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_scannl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Inhdr.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Inhdr.U,v $
?RCS: Revision 3.0.1.2  1995/05/12  12:01:31  ram
?RCS: patch54: deleted tabs that caused some /bin/sh to core dump (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:55:01  ram
?RCS: patch36: call ./whoa explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit checks wether a set of header files exists or not.
?X: If the first header is not
 found, the function tries to locate
?X: the next header, and so on, until one is found or there is no
?X: more header in the list.
?X:
?X: To use it, say:
```

```
?X: set header i_header [ header2 i_header2 ... ]
?X: eval $inhdr
?X:
?MAKE:Inhdr: test Findhdr Whoa
?MAKE: -pick add $@ %<
?LINT:define inhdr
?V:inhdr
?S:inhdr:
?S: This shell variable is used internally by Configure to check
?S: wether a set of headers exist or not. A typical use is:
?S:  set header i_header [ header2 i_header2 ... ]
?S:  eval $inhdr
?S: That will print a message, saying wether header was found or not
?S: and set i_header* accordingly. If the first header is not found,
?S: we try the next one, until the list is empty or one is found.
?S:.
?T:xxx xxf var td xxnf tu yyy instead was cont
: define an alternate in-header-list? function
inhdr='echo " "; td=$define; tu=$undef; yyy=$@;
cont=true; xxf="echo \"<\$1> found.\" >&4";
case $# in 2) xxnf="echo \"<\$1> NOT found.\" >&4";;
*) xxnf="echo \"<\$1> NOT found, ...\" >&4";;
esac;
case
 $# in 4) instead=instead;; *) instead="at last";; esac;
while $test "$cont"; do
 xxx=`./findhdr $1`
 var=$2; eval "was=\$$2";
 if $test "$xxx" && $test -r "$xxx";
 then eval $xxf;
?X: Next line shifted left 1 tabstop to avoid sh core dump on MachTen 2.1.1.
 eval "case \"\$$var\" in $undef) . ./whoa; esac"; eval "$var=\$td";
  cont="";
 else eval $xxnf;
?X: Likewise, the next line has been shifted left 1 tabstop -- ADO, 08/03/95
 eval "case \"\$$var\" in $define) . ./whoa; esac"; eval "$var=\$tu"; fi;
 set $yyy; shift; shift; yyy=$@;
 case $# in 0) cont="";;
 2) xxf="echo \"but I found <\$1> $instead.\" >&4";
  xxnf="echo \"and I did not find <\$1> either.\" >&4";;
 *) xxf="echo \"but I found <\$1\> instead.\" >&4";
  xxnf="echo \"there is no <\$1>, ...\" >&4";;
 esac;
done;
?X: Remaining values are set to 'undef'
while $test "$yyy";
do set $yyy; var=$2; eval "was=\$$2";
 eval "case \"\$$var\" in $define) . ./whoa; esac"; eval "$var=\$tu";
```

```
 set $yyy; shift; shift; yyy=$@;
done'
```

Found
 in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Inhdr.U
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```
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?RCS:
?MAKE:d_statfs_s: \
 Hasstruct i_sysparam i_sysmount i_systypes \
 i_sysvfs i_sysstatfs Setvar
?MAKE: -pick add $@ %<
?S:d_statfs_s:
?S: This variable conditionally defines the HAS_STRUCT_STATFS symbol,
?S: which indicates that the struct statfs is supported.
?S:.
?C:HAS_STRUCT_STATFS:
?C: This symbol, if defined, indicates that the struct statfs
?C: to do statfs() is supported.
?C:.
?H:#$d_statfs_s HAS_STRUCT_STATFS /**/
?H:.
?LINT:set d_statfs_s
: Check for statfs_s
echo " "
echo "Checking to see if your system supports struct statfs..." >&4
set d_statfs_s statfs $i_systypes sys/types.h $i_sysparam sys/param.h $i_sysmount sys/mount.h $i_sysvfs sys/vfs.h $i_sysstatfs sys/statfs.h
eval $hasstruct
case "$d_statfs_s"
 in
"$define")      echo "Yes, it does."   ;;
*)              echo "No, it doesn't." ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_statfs_s.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Filexp.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  15:52:53  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: added HOME to the ?T: line since metalint now checks ${HOME}
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:03:00  ram
?RCS: patch23: made sure error status from csh is propagated (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:53  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which will expand filenames beginning
?X:
 with tildes.  The script is deleted at the end of Configure.
?X:
?MAKE:Filexp: startsh sed test expr eunicefix
?MAKE: -pick add $@ %<
?F:./filexp
?T:HOME LOGDIR dir me name failed
: set up shell script to do ~ expansion
cat >filexp <<EOSS
$startsh
: expand filename
?X:
?X: The case entries below escape the ~ as some shells have shown expansion
?X: of the ~ during here-doc processing.
?X:
case "\$1" in
\~/*|\~)
 echo \$1 | $sed "s|~|\${HOME-\$LOGDIR}|"
 ;;
\~*)
 if $test -f /bin/csh; then
  /bin/csh -f -c "glob \$1"
  failed=\$?
  echo ""
  exit \$failed
```

```
 else
  name=\`$expr x\$1 : '..\([^/]*\)'\`
  dir=\`$sed -n -e "/^\${name}:/{s/^[^:]*:[^:]*:[^:]*:[^:]*:[^:]*:[^:]*:\([^:]*\).*'"\$'"/\1/" -e p -e q -e '}' </etc/passwd\`
  if $test ! -d "\$dir"; then
   me=\`basename \$0\`
   echo "\$me: can't locate home directory for: \$name" >&2
   exit 1
  fi
  case "\$1" in
  */*)
   echo \$dir/\`$expr x\$1 : '..[^/]*/\(.*\)'\`
   ;;
  *)
   echo \$dir
   ;;
  esac
 fi
 ;;
*)
 echo \$1
 ;;
esac
EOSS
chmod
 +x filexp
$eunicefix filexp
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Filexp.U
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:sitehtml1dir sitehtml1direxp installsitehtml1dir: Getfile \
 Setprefixvar prefix siteprefix html1dir sed
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitehtml1dir="
?S:sitehtml1dir:
```

```
?S: This variable contains the name of the directory in which site-specific
?S: html source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S: The standard distribution will put nothing in this directory.
?S: After perl
 has been installed, users may install their own local
?S: html pages in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitehtml1direxp="
?S:sitehtml1direxp:
?S: This variable is the same as the sitehtml1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsitehtml1dir="
?S:installsitehtml1dir:
?S: This variable is really the same as sitehtml1direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: html1direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installsitehtml1dir
?LINT:set sitehtml1dir
?LINT:set sitehtml1direxp
: determine where add-on html pages go
: There is no standard location, so try to copy the previously-selected
: directory structure for the core html pages.
case "$sitehtml1dir" in
")
   dflt=`echo "$html1dir" | $sed "s#^$prefix#$siteprefix#"` ;;
*)     dflt=$sitehtml1dir ;;
esac
case "$dflt" in
"|' ') dflt=none ;;
esac
fn=dn+~
rp='Pathname where the site-specific html pages should be installed?'
. ./getfile
prefixvar=sitehtml1dir
. ./setprefixvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/sitehtml1dir.U

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```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: man1dir.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:10:29  ram
?RCS: patch61: created
?RCS:
?X:
?X: This was originally specific to perl5.  Since perl5 has man pages that
?X: go in both man1/ and man3/ directories, we need both man1dir
?X: and man3dir.  This unit is basically dist's mansrc.U with
?X: man1 used instead of man everywhere.
?X:
?MAKE:man1dir man1direxp man1ext installman1dir: afs cat nroff Loc Oldconfig \
 spackage test Getfile Prefixit prefixexp
 Prefixup sysman Myread
?MAKE: -pick add $@ %<
?Y:TOP
?S:man1dir:
?S: This variable contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?S:man1direxp:
?S: This variable is the same as the man1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?S:installman1dir:
?S: This variable is really the same as man1direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man1direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:man1ext:
?S: This variable contains the extension that the manual page should
?S: have: one of 'n', 'l', or '1'.  The Makefile must supply the '.'.
?S: See man1dir.
```

```
?S:.
?T:lookpath
: determine
 where manual pages go
set man1dir man1dir none
eval $prefixit
$cat <<EOM

$spackage has manual pages available in source form.
EOM
case "$nroff" in
nroff)
 echo "However, you don't have nroff, so they're probably useless to you."
 case "$man1dir" in
 ") man1dir="none";;
 esac;;
esac
echo "If you don't want the manual sources installed, answer 'none'."
case "$man1dir" in
' ') dflt=none
 ;;
")
 lookpath="$prefixexp/man/man1 $prefixexp/man/l_man/man1"
 lookpath="$lookpath $prefixexp/man/p_man/man1"
 lookpath="$lookpath $prefixexp/man/u_man/man1"
 lookpath="$lookpath $prefixexp/man/man.1"
?X: Experience has shown people expect man1dir to be under prefix,
?X: so we now always put it there.  Users who want other behavior
?X: can answer interactively or use a command line option.
?X: Does user have System V-style man paths.
 case "$sysman" in
 */?_man*) dflt=`./loc . $prefixexp/l_man/man1 $lookpath` ;;
 *) dflt=`./loc . $prefixexp/man/man1 $lookpath` ;;
 esac
 set dflt
 eval $prefixup
 ;;
*)
  dflt="$man1dir"
 ;;
esac
echo " "
fn=dn+~
rp="Where do the main $spackage manual pages (source) go?"
. ./getfile
if $test "X$man1direxp" != "X$ansexp"; then
 installman1dir="
fi
```

```
man1dir="$ans"
man1direxp="$ansexp"
case "$man1dir" in
") man1dir=' '
 installman1dir=";;
esac
if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
manual pages reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installman1dir" in
 ") dflt=`echo $man1direxp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installman1dir";;
 esac
 fn=de~
 rp='Where will man pages be installed?'
 . ./getfile
 installman1dir="$ans"
else
 installman1dir="$man1direxp"
fi

: What suffix to use on installed man pages

case "$man1dir" in
' ')
 man1ext='0'
 ;;
*)
 rp="What suffix should be used for the main $spackage man pages?"
 case "$man1ext" in
 ") case "$man1dir" in
  *1)  dflt=1 ;;
  *1p)
 dflt=1p ;;
  *1pm) dflt=1pm ;;
  *l) dflt=l;;
  *n) dflt=n;;
  *o) dflt=o;;
  *p) dflt=p;;
  *C) dflt=C;;
  *L) dflt=L;;
  *L1) dflt=L1;;
  *) dflt=1;;
```

```
  esac
  ;;
 *) dflt="$man1ext";;
 esac
 . ./myread
 man1ext="$ans"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/man1dir.U
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_sockatmark: Inlibc
?MAKE: -pick add $@ %<
?S:d_sockatmark:
?S: This variable conditionally defines the HAS_SOCKATMARK symbol, which
?S: indicates to the C program that the sockatmark() routine is available.
?S:.
?C:HAS_SOCKATMARK:
?C: This symbol, if defined, indicates that the sockatmark routine is
?C: available to test whether a socket is at the out-of-band mark.
?C:.
?H:#$d_sockatmark HAS_SOCKATMARK  /**/
?H:.
?LINT:set d_sockatmark
: see if sockatmark exists
set sockatmark d_sockatmark
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_sockatmark.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_syslog.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_syslog: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_syslog:
?S: This variable conditionally defines the I_SYSLOG symbol,
?S: and indicates whether a C program should include <syslog.h>.
?S:.
?C:I_SYSLOG:
?C: This symbol, if defined, indicates that <syslog.h> exists and
?C: should be included.
?C:.
?H:#$i_syslog I_SYSLOG  /**/
?H:.
?LINT:set i_syslog
: see if this is a syslog.h system
set syslog.h i_syslog
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_syslog.U
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:gccversion gccosandvers gccansipedantic: cat cpp rm +cc \
 Myread Guess Options Oldconfig Loc osname osvers run
?MAKE: -pick add $@ %<
?S:gccversion:
?S: If GNU cc (gcc) is used, this variable holds '1' or '2' to
?S: indicate whether the compiler is version 1 or 2.  This is used in
?S: setting some of the default cflags.  It is set to '' if not gcc.
?S:.
?S:gccosandvers:
?S: If GNU cc (gcc) is used, this variable holds the operating system
?S: and version used to compile gcc.  It is set to '' if not gcc,
?S: or if
 nothing useful can be parsed as the os version.
?S:.
```

```
?S:gccansipedantic:
?S: If GNU cc (gcc) is used, this variable will enable (if set) the
?S: -ansi and -pedantic ccflags for building core files (through
?S: cflags script). (See Porting/pumpkin.pod for full description).
?S:.
?D:gccversion="
?D:gccansipedantic="
?T:c99_for
?T:flag
?T:gccshortvers
?T:incdir
?T:warn
?F:!try
?LINT:change cpp
?LINT:extern ccflags
?LINT:extern ldflags
?LINT:extern locincpth
?LINT:extern ccname
?LINT:change ccname
?LINT:change locincpth
?LINT:change ccflags
?LINT:set gccansipedantic
?X: Check if they have gcc in any guise.
: Check if we are using GNU gcc and what its version is
echo " "
echo "Checking for GNU cc in disguise and/or its version number..." >&4
$cat >try.c <<EOM
#include <stdio.h>
int main() {
#if defined(__GNUC__) && !defined(__INTEL_COMPILER)
#ifdef __VERSION__
 printf("%s\n", __VERSION__);
#else
 printf("%s\n", "1");
#endif
#endif
 return(0);
}
EOM
if $cc -o try $ccflags $ldflags try.c; then
 gccversion=`$run
 ./try`
 case "$gccversion" in
 ") echo "You are not using GNU cc." ;;
 *)  echo "You are using GNU cc $gccversion."
     ccname=gcc
     ;;
 esac
```

```
else
 echo " "
 echo "*** WHOA THERE!!! ***" >&4
 echo "    Your C compiler \"$cc\" doesn't seem to be working!" >&4
?X: using -K will prevent aborting--maybe they're cross compiling?
 case "$knowitall" in
 ")
 echo "    You'd better start hunting for one and let me know about it." >&4
  exit 1
  ;;
 esac
fi
$rm -f try try.*
case "$gccversion" in
1.*) cpp=`./loc gcc-cpp $cpp $pth` ;;
esac
case "$gccversion" in
") gccosandvers=" ;;
*) gccshortvers=`echo "$gccversion"|sed 's/ .*//'`
  gccosandvers=`$cc -v 2>&1|grep '/specs$'|sed "s!.*/[^-/]*-[^-/]*-\([^-/]*\)/$gccshortvers/specs!\1!"`
  gccshortvers="
  case "$gccosandvers" in
  $osname) gccosandvers=" ;; # linux gccs seem to have no linux osvers, grr
  $osname$osvers) ;; # looking good
  $osname*) cat <<EOM >&4

*** WHOA THERE!!! ***

   Your gcc has not been
 compiled for the exact release of
   your operating system ($gccosandvers versus $osname$osvers).

   In general it is a good idea to keep gcc synchronized with
   the operating system because otherwise serious problems
   may ensue when trying to compile software, like Perl.

   I'm trying to be optimistic here, though, and will continue.
   If later during the configuration and build icky compilation
   problems appear (headerfile conflicts being the most common
   manifestation), I suggest reinstalling the gcc to match
   your operating system release.

EOM
     ;;
  *) gccosandvers=" ;; # failed to parse, better be silent
  esac
  ;;
esac
```

```
case "$ccname" in
") ccname="$cc" ;;
esac

# gcc 3.* complain about adding -Idirectories that they already know about,
# so we will take those off from locincpth.
case "$gccversion" in
3.*)
   echo "main(){}">try.c
   for incdir in $locincpth; do
      warn=`$cc $ccflags -I$incdir -c try.c 2>&1 | \
      grep '^c[cp]p*[01]: warning:
 changing search order '`
      if test "X$warn" != X; then
    locincpth=`echo " $locincpth " | sed "s! $incdir ! !"`
      fi
   done
   $rm -f try try.*
esac

# gcc 4.9 by default does some optimizations that break perl.
# see ticket 121505.
#
# The -fwrapv disables those optimizations (and probably others,) so
# for gcc 4.9 (and later, since the optimizations probably won't go
# away), add -fwrapv unless the user requests -fno-wrapv, which
# disables -fwrapv, or if the user requests -fsanitize=undefined,
# which turns the overflows -fwrapv ignores into runtime errors.
case "$gccversion" in
4.[3-9].*|4.[1-9][0-9]*|[5-9].*|[1-9][0-9]*)
   case "$ccflags" in
   *-fno-wrapv*|*-fsanitize=undefined*|*-fwrapv*) ;;
   *) ccflags="$ccflags -fwrapv" ;;
   esac
esac

# Really old versions of gcc default to C89 and will error for this code.
# See if the compiler (gcc or otherwise) needs a flag to compile C99 code
# Initialisations in for loops seem to be the particular problem
# (Does
 this syntax conflict with something else that was valid C89?)
# We also add a declaration after a statement to detect whether the compiler
# (or the user supplied -Accflags) consider such declarations to be errors.
# This causes 'Configure with -Accflags="-Werror=declaration-after-statement"'
# to fail hard and early.
#
# Annoyingly -std=c99 will cause gcc to tell glibc not to define prototypes for
# syscall, drand48 etc when including <unistd.h>, which messes up our build.
```

```
# I guess we *could* loop round trying -std=c99 first with checks both for the
# prototype found and the code compiling (because -std=gnu99 might do other
# things we don't want, particularly on non-GCC compilers) but
# 1) We would need to check for the prototype first (without any flags)
# 2) We would still end up with most Linux systems either being -std=gnu99
#    or "" (no flag), and so both common options would not rigorously check our
#    portability to other platforms.
# So it doesn't seem worth the complexity
 and chance of different failure.
$cat >try.c <<'EOCP'
int main(int argc, char **argv) {
   argc = argc + 1;
   /* This is deliberately a declaration after a statement. */
   unsigned long long count = 0;
   for (char **p = argv; *p; ++p) {
       ++count;
   }
   return count == 1 ? 0 : argc;
}
EOCP
c99_for=no
for flag in " '-std=gnu99' '-std=c99'; do
   if $cc -o try $flag $ccflags $ldflags try.c 2>/dev/null && ./try; then
       c99_for="$flag"
       break;
   fi
done
case "$c99_for" in
") echo "Your C compiler doesn't need any special flags to compile C99 code"
   ;;
no) echo >&4 "Your C compiler doesn't seem to be able to compile C99 code"
   rp='Do you really want to continue?'
   dflt='n'
   . ./myread
   case "$ans" in
 [yY]) echo >&4 "Okay, continuing." ;;
 *) exit 1    ;;
   esac
   ;;
*)  echo "Your C compiler needs $c99_for to compile C99 code"
   ccflags="$c99_for $ccflags"
   ;;
esac
$rm -f try try.*
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/gccvers.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996,1998 Andy Dougherty
?RCS: Copyright (c) 1996, Sven Verdoolaege
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_gnulibc gnulibc_version: Myread Oldconfig Setvar rm_try \
 cat Compile run
?MAKE: -pick add $@ %<
?S:d_gnulibc:
?S: Defined if we're dealing with the GNU C Library.
?S:.
?S:gnulibc_version:
?S: This variable contains the version number of the GNU C library.
?S: It is usually something like '2.2.5'.  It is a plain '' if this
?S: is not the GNU C library, or if the version is unknown.
?S:.
?C:HAS_GNULIBC ~ %<:
?C: This
 symbol, if defined, indicates to the C program that
?C: the GNU C library is being used.  A better check is to use
?C: the __GLIBC__ and __GLIBC_MINOR__ symbols supplied with glibc.
?C:.
?H:?%<:#$d_gnulibc HAS_GNULIBC   /**/
?H:?%<:#if defined(HAS_GNULIBC) && !defined(_GNU_SOURCE)
?H:?%<:#define _GNU_SOURCE
?H:?%<:#endif
?H:.
?F:!glibc.ver !try.c !try
?LINT: set d_gnulibc
?LINT: usefile try.c
?LINT: known _GNU_SOURCE
?X: gnulibc can be executed by calling __libc_main().
?X: Ulrich Drepper doesn't think any other libc does that,
?X: but we check if it says 'GNU C Library' to be sure.
?X:
?X: Alas, as of 3/1998 glibc 2.0.7 reportedly isn't going to
?X: have __libc_main() anymore. :-(.  Fortunately, all released
?X: versions of glibc 2.x.x _do_ have CPP variables.  For 2.0.6,
?X: they are:
```

```
?X: #define __GLIBC__  2
?X: #define__GLIBC_MINOR__ 0.
?X: (The '6' isn't available :-(.
?X: glibc2.1 will also have
?X:  extern const char * __gnu_get_libc_release(void);
?X:  extern const char *
 __gnu_get_libc_version(void);
?X: functions.   --thanks to Andreas Jaeger.   --AD  6/1998.
?X: Although the exact format isn't documented, __gnu_get_libc_version()
?X: returns a simple string '2.1.3' in glibc 2.1.3.
?X:
: determine whether we are using a GNU C library
echo " "
echo "Checking for GNU C Library..." >&4
cat >try.c <<'EOCP'
/* Find out version of GNU C library.  __GLIBC__ and __GLIBC_MINOR__
  alone are insufficient to distinguish different versions, such as
  2.0.6 and 2.0.7.  The function gnu_get_libc_version() appeared in
  libc version 2.1.0.      A. Dougherty,  June 3, 2002.
*/
#include <stdio.h>
int main(void)
{
#ifdef __GLIBC__
#   ifdef __GLIBC_MINOR__
#       if __GLIBC__ >= 2 && __GLIBC_MINOR__ >= 1
#           include <gnu/libc-version.h>
     printf("%s\n",  gnu_get_libc_version());
#       else
     printf("%d.%d\n",  __GLIBC__, __GLIBC_MINOR__);
#       endif
#   else
 printf("%d\n",  __GLIBC__);
#   endif
   return 0;
#else
   return 1;
#endif
}
EOCP
set
 try
if eval $compile_ok && $run ./try > glibc.ver; then
 val="$define"
 gnulibc_version=`$cat glibc.ver`
 echo "You are using the GNU C Library version $gnulibc_version"
else
 val="$undef"
```

```
 gnulibc_version=''
 echo "You are not using the GNU C Library"
fi
$rm_try glibc.ver
set d_gnulibc
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_gnulibc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_quad quadtype uquadtype quadkind: \
 longsize intsize d_longlong longlongsize d_int64_t \
 Inhdr Setvar
?MAKE: -pick add $@ %<
?S:d_quad:
?S: This variable, if defined, tells that there's a 64-bit integer type,
?S: quadtype.
?S:.
?S:quadtype:
?S: This variable defines Quad_t to be something like long, int,
?S: long long, int64_t, or whatever type is used for 64-bit integers.
?S:.
?S:quadkind:
?S: This variable, if defined, encodes the type of a quad:
?S: 1 = int, 2 = long, 3 = long long, 4 = int64_t.
?S:.
?S:uquadtype:
?S: This variable defines Uquad_t to be something like unsigned long,
?S: unsigned int, unsigned long long, uint64_t, or whatever type is
?S: used for 64-bit integers.
?S:.
?C:HAS_QUAD:
?C: This
 symbol, if defined, tells that there's a 64-bit integer type,
?C: Quad_t, and its unsigned counterpart, Uquad_t. QUADKIND will be one
?C: of QUAD_IS_INT, QUAD_IS_LONG, QUAD_IS_LONG_LONG, QUAD_IS_INT64_T,
?C: or QUAD_IS___INT64.
?C:.
?H:#$d_quad HAS_QUAD /**/
```

```
?H:?%<:#ifdef HAS_QUAD
?H:?%<:#   define Quad_t $quadtype /**/
?H:?%<:#   define Uquad_t $uquadtype /**/
?H:?%<:#   define QUADKIND $quadkind /**/
?H:?%<:#   define QUAD_IS_INT 1
?H:?%<:#   define QUAD_IS_LONG 2
?H:?%<:#   define QUAD_IS_LONG_LONG 3
?H:?%<:#   define QUAD_IS_INT64_T 4
?H:?%<:#   define QUAD_IS___INT64 5
?H:?%<:#endif
?H:.
?LINT:set quadtype
?LINT:set uquadtype
: Check if 64bit ints have a quad type
echo " "
echo "Checking which 64-bit integer type we could use..." >&4
?X: We prefer quad types in order of int, long, long long, int64_t.

case "$intsize" in
8) val=int
  set quadtype
  eval $setvar
  val='"unsigned int"'
  set uquadtype
  eval $setvar
  quadkind=1
  ;;
*) case "$longsize" in
  8)
 val=long
    set quadtype
    eval $setvar
    val='"unsigned long"'
    set uquadtype
    eval $setvar
    quadkind=2
    ;;
  *) case "$d_longlong:$longlongsize" in
    define:8)
      val='"long long"'
      set quadtype
      eval $setvar
      val='"unsigned long long"'
      set uquadtype
      eval $setvar
      quadkind=3
      ;;
    *) case "$d_int64_t" in
```

```
        define)
          val=int64_t
          set quadtype
          eval $setvar
          val=uint64_t
          set uquadtype
          eval $setvar
          quadkind=4
          ;;
        esac
        ;;
      esac
      ;;
    esac
    ;;
esac

case "$quadtype" in
") echo "Alas, no 64-bit integer types in sight." >&4
 d_quad="$undef"
 ;;
*) echo "We could use '$quadtype' for 64-bit integers." >&4
 d_quad="$define"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/a_dvisory/quadtype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorhtml3dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorhtml3dir.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorhtml3dir vendorhtml3direxp installvendorhtml3dir: html3dir Getfile \
 Oldconfig Setprefixvar Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
```

```
?Y:TOP
?S:vendorhtml3dir:
?S: This variable contains the name of the directory for html
?S: library pages.  It may have a ~ on the front.
?S: The standard distribution will put nothing
 in this directory.
?S: Vendors who distribute perl may wish to place their own
?S: html pages for modules and extensions in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorhtml3direxp:
?S: This variable is the ~name expanded version of vendorhtml3dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorhtml3dir="
?S:installvendorhtml3dir:
?S: This variable is really the same as vendorhtml3direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorhtml3dir
: Set the vendorhtml3dir variables
case "$vendorprefix" in
") vendorhtml3dir="
 vendorhtml3direxp="
 ;;
*) : determine where vendor-supplied module html pages go.
 : There is no standard location, so try to copy the previously-selected
 : directory structure for the core html pages.
 : XXX Better default
 suggestions would be welcome.
 case "$vendorhtml3dir" in
 ") dflt=`echo "$html3dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
 *) dflt=$vendorhtml3dir ;;
 esac
 case "$dflt" in
 "|' ') dflt=none ;;
 esac
 fn=dn+~
 rp='Pathname for the vendor-supplied html pages?'
 . ./getfile
 vendorhtml3dir="$ans"
 vendorhtml3direxp="$ansexp"
 ;;
esac
: Use ' ' for none so value is preserved next time through Configure
```

```
$test X"$vendorhtml3dir" = "X" && vendorhtml3dir=' '
prefixvar=vendorhtml3dir
. ./installprefix
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/vendorhtml3dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: End.U,v 3.0 1993/08/18 12:04:51 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: End.U,v $
?RCS: Revision 3.0  1993/08/18  12:04:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit serves as the goal which forces make to choose all the units that
?X: ask questions.  The $W on the ?MAKE: line is the list of all symbols wanted.
?X: To force any unit to be included, copy this unit to your private U directory
?X: and add the name of the unit desired to the ?MAKE: dependency line.
?X:
?MAKE:End perllibs: $W cppstdin gzip zip
 libs usedl osname osvers
?MAKE: -pick add $@ %<
?S:perllibs:
?S: The list of libraries needed by Perl only (any libraries needed
?S: by extensions only will by dropped, if using dynamic loading).
?S:.
?INIT:perllibs="
?LINT:use $W
?LINT:use gzip zip
?LINT:change cppstdin
: Remove libraries needed only for extensions
: The appropriate ext/Foo/Makefile.PL will add them back in, if necessary.
: The exception is SunOS 4.x, which needs them.
case "${osname}X${osvers}" in
sunos*X4*)
   perllibs="$libs"
   ;;
*) case "$usedl" in
```

```
  $define|true|[yY]*)
    set X `echo " $libs " | sed -e 's@ -lndbm @ @' -e 's@ -lgdbm @ @' -e 's@ -lgdbm_compat @ @' -e 's@ -ldbm @
@' -e 's@ -ldb @ @'`
    shift
    perllibs="$*"
    ;;
  *) perllibs="$libs"
    ;;
  esac
  ;;
esac

?X: If the user has the cppstdin wrapper, perl.c will try to call
?X: CPPSTDIN, but that will point to a location in the build
?X: directory, not the installed version!.  Here, we'll just strip the
?X: name down to 'cppstdin',
 and rely on the fact that perl.c will
?X: then call SCRIPTDIR/cppstdin, but local things like 'make depend'
?X: will continue to work.
: Remove build directory name from cppstdin so it can be used from
: either the present location or the final installed location.
echo " "
: Get out of the UU directory to get correct path name.
cd ..
case "$cppstdin" in
`pwd`/cppstdin)
 echo "Stripping down cppstdin path name"
 cppstdin=cppstdin
 ;;
esac
cd UU

: end of configuration questions
echo " "
echo "End of configuration questions."
echo " "
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/End.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_int64_t: Inhdr cat rm_try Setvar Compile i_inttypes
?MAKE: -pick add $@ %<
?S:d_int64_t:
?S: This symbol will be defined if the C compiler supports int64_t.
?S:.
?C:HAS_INT64_T:
?C: This symbol will defined if the C compiler supports int64_t.
?C: Usually the <inttypes.h> needs to be included, but sometimes
?C: <sys/types.h> is enough.
?C:.
?H:#$d_int64_t     HAS_INT64_T              /**/
?H:.
?LINT:set d_int64_t
: check for int64_t
echo " "
echo "Checking to see if you have int64_t..." >&4
$cat >try.c <<EOCP
#include
 <sys/types.h>
#$i_inttypes I_INTTYPES
#ifdef I_INTTYPES
#include <inttypes.h>
#endif
int main() { int64_t x = 7; }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have int64_t."
else
 val="$undef"
 echo "You do not have int64_t."
fi
$rm_try
set d_int64_t
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_int64_t.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: html3dir.U,v $
?RCS:

```
?RCS: Copyright (c) 1999 Andy Dougherty
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: html3dir.U,v $
?RCS:
?MAKE:html3dir html3direxp installhtml3dir: cat sed Loc Myread \
 spackage test Getfile Setprefixvar Prefixit Prefixup html1dir
?MAKE: -pick add $@ %<
?Y:TOP
?D:html3dir=''
?S:html3dir:
?S: This variable contains the name of the directory in which html
?S: source pages are to be put.  This directory is for pages
?S: that describe libraries or modules.  It is intended to
?S: correspond roughly to section 3 of the Unix manuals.
?S:.
?D:html3direxp=''
?S:html3direxp:
?S: This variable
 is the same as the html3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installhtml3dir=''
?S:installhtml3dir:
?S: This variable is really the same as html3direxp, unless you are
?S: using a different installprefix.  For extra portability, you
?S: should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set html3direxp
?LINT:set installhtml3dir
: determine where html pages for libraries and modules go
set html3dir html3dir none
eval $prefixit
$cat <<EOM

If you wish to install html files for modules associated with $spackage,
indicate the appropriate directory here.  To skip installing html files,
answer "none".
EOM
: There is no obvious default.  If they have specified html1dir, then
: try to key off that, possibly changing .../html1 into .../html3.
case "$html3dir" in
```

```
") html3dir=`echo "$html1dir" | $sed 's/1$/3$/'` ;;
*) dflt=$html3dir ;;
esac
fn=dn+~
rp="Directory for the $spackage module
 html pages?"
. ./getfile
prefixvar=html3dir
. ./setprefixvar
: Use ' ' for none so value is preserved next time through Configure
$test X"$html3dir" = "X" && html3dir=' '
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/html3dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_socket.U,v 3.0.1.2 1997/02/28 15:46:00 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_socket.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:46:00  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:08:04  ram
?RCS: patch16: can now safely declare private nm_extract in dependencies
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_socket d_oldsock d_sockpair socketlib sockethdr \
 d_msg_ctrunc d_msg_dontroute d_msg_oob d_msg_peek
 d_msg_proxy \
 d_scm_rights d_sockaddr_sa_len d_sockaddr_in6 d_sin6_scope_id \
 d_ip_mreq d_ip_mreq_source d_ipv6_mreq d_ipv6_mreq_source \
 d_sockaddr_storage: \
 contains echo n c ar nm nm_opt nm_extract Inlibc Csym _a \
 Compile cat rm_try Setvar Hasfield sysroot
?MAKE: -pick add $@ %<
?S:d_socket:
?S: This variable conditionally defines HAS_SOCKET, which indicates
```

```
?S: that the BSD socket interface is supported.
?S:.
?S:d_sockpair:
?S: This variable conditionally defines the HAS_SOCKETPAIR symbol, which
?S: indicates that the BSD socketpair() is supported.
?S:.
?S:d_oldsock:
?S: This variable conditionally defines the OLDSOCKET symbol, which
?S: indicates that the BSD socket interface is based on 4.1c and not 4.2.
?S:.
?S:d_msg_ctrunc:
?S: This variable conditionally defines the HAS_MSG_CTRUNC symbol,
?S: which indicates that the MSG_CTRUNC is available.  #ifdef is
?S: not enough because it may be an enum, glibc has been known to do this.
?S:.
?S:d_msg_dontroute:
?S: This variable
 conditionally defines the HAS_MSG_DONTROUTE symbol,
?S: which indicates that the MSG_DONTROUTE is available.  #ifdef is
?S: not enough because it may be an enum, glibc has been known to do this.
?S:.
?S:d_msg_oob:
?S: This variable conditionally defines the HAS_MSG_OOB symbol,
?S: which indicates that the MSG_OOB is available.  #ifdef is
?S: not enough because it may be an enum, glibc has been known to do this.
?S:.
?S:d_msg_peek:
?S: This variable conditionally defines the HAS_MSG_PEEK symbol,
?S: which indicates that the MSG_PEEK is available.  #ifdef is
?S: not enough because it may be an enum, glibc has been known to do this.
?S:.
?S:d_msg_proxy:
?S: This variable conditionally defines the HAS_MSG_PROXY symbol,
?S: which indicates that the MSG_PROXY is available.  #ifdef is
?S: not enough because it may be an enum, glibc has been known to do this.
?S:.
?S:d_scm_rights:
?S: This variable conditionally defines the HAS_SCM_RIGHTS symbol,
?S: which indicates that the SCM_RIGHTS is available.
  #ifdef is
?S: not enough because it may be an enum, glibc has been known to do this.
?S:.
?S:d_sockaddr_sa_len:
?S: This variable conditionally defines the HAS_SOCKADDR_SA_LEN symbol,
?S: which indicates that a struct sockaddr structure has the sa_len
?S: member.
?S:.
?S:d_sockaddr_in6:
```

?S: This variable conditionally defines the HAS_SOCKADDR_IN6 symbol, which
?S: indicates the availability of a struct sockaddr_in6.
?S:.
?S:d_sockaddr_storage:
?S: This variable conditionally defines the HAS_SOCKADDR_STORAGE symbol,
?S: which indicates the availability of a struct sockaddr_storage.
?S:.
?S:d_sin6_scope_id:
?S: This variable conditionally defines the HAS_SIN6_SCOPE_ID symbol, which
?S: indicates that a struct sockaddr_in6 structure has the sin6_scope_id
?S: member.
?S:.
?S:d_ip_mreq:
?S: This variable conditionally defines the HAS_IP_MREQ symbol, which
?S: indicates the availability of a struct ip_mreq.
?S:.
?S:d_ip_mreq_source:
?S: This variable conditionally defines the HAS_IP_MREQ_SOURCE
symbol,
?S: which indicates the availability of a struct ip_mreq_source.
?S:.
?S:d_ipv6_mreq:
?S: This variable conditionally defines the HAS_IPV6_MREQ symbol, which
?S: indicates the availability of a struct ipv6_mreq.
?S:.
?S:d_ipv6_mreq_source:
?S: This variable conditionally defines the HAS_IPV6_MREQ_SOURCE symbol,
?S: which indicates the availability of a struct ipv6_mreq_source.
?S:.
?S:socketlib:
?S: This variable has the names of any libraries needed for socket support.
?S:.
?S:sockethdr:
?S: This variable has any cpp '-I' flags needed for socket support.
?S:.
?C:HAS_SOCKET (SOCKET):
?C: This symbol, if defined, indicates that the BSD socket interface is
?C: supported.
?C:.
?C:HAS_SOCKETPAIR (SOCKETPAIR):
?C: This symbol, if defined, indicates that the BSD socketpair() call is
?C: supported.
?C:.
?C:USE_OLDSOCKET (OLDSOCKET):
?C: This symbol, if defined, indicates that the 4.1c BSD socket interface
?C: is supported instead of the 4.2/4.3 BSD socket interface. For instance,
?C: there

```
 is no setsockopt() call.
?C:.
?C:HAS_MSG_CTRUNC:
?C: This symbol, if defined, indicates that the MSG_CTRUNC is supported.
?C: Checking just with #ifdef might not be enough because this symbol
?C: has been known to be an enum.
?C:.
?C:HAS_MSG_DONTROUTE:
?C: This symbol, if defined, indicates that the MSG_DONTROUTE is supported.
?C: Checking just with #ifdef might not be enough because this symbol
?C: has been known to be an enum.
?C:.
?C:HAS_MSG_OOB:
?C: This symbol, if defined, indicates that the MSG_OOB is supported.
?C: Checking just with #ifdef might not be enough because this symbol
?C: has been known to be an enum.
?C:.
?C:HAS_MSG_PEEK:
?C: This symbol, if defined, indicates that the MSG_PEEK is supported.
?C: Checking just with #ifdef might not be enough because this symbol
?C: has been known to be an enum.
?C:.
?C:HAS_MSG_PROXY:
?C: This symbol, if defined, indicates that the MSG_PROXY is supported.
?C: Checking just with #ifdef might not be enough because this
 symbol
?C: has been known to be an enum.
?C:.
?C:HAS_SCM_RIGHTS:
?C: This symbol, if defined, indicates that the SCM_RIGHTS is supported.
?C: Checking just with #ifdef might not be enough because this symbol
?C: has been known to be an enum.
?C:.
?C:HAS_SOCKADDR_SA_LEN:
?C: This symbol, if defined, indicates that the struct sockaddr
?C: structure has a member called sa_len, indicating the length of
?C: the structure.
?C:.
?C:HAS_SOCKADDR_IN6:
?C: This symbol, if defined, indicates the availability of
?C: struct sockaddr_in6;
?C:.
?C:HAS_SOCKADDR_STORAGE:
?C: This symbol, if defined, indicates the availability of
?C: struct sockaddr_storage;
?C:.
?C:HAS_SIN6_SCOPE_ID:
?C: This symbol, if defined, indicates that the struct sockaddr_in6
```

```
?C: structure has a member called sin6_scope_id.
?C:.
?C:HAS_IP_MREQ:
?C: This symbol, if defined, indicates the availability of
?C: struct ip_mreq;
?C:.
?C:HAS_IP_MREQ_SOURCE:
?C: This symbol, if defined, indicates the availability of
?C: struct ip_mreq_source;
?C:.
?C:HAS_IPV6_MREQ:
?C: This
 symbol, if defined, indicates the availability of
?C: struct ipv6_mreq;
?C:.
?C:HAS_IPV6_MREQ_SOURCE:
?C: This symbol, if defined, indicates the availability of
?C: struct ipv6_mreq_source;
?C:.
?H:#$d_socket HAS_SOCKET  /**/
?H:#$d_sockpair HAS_SOCKETPAIR /**/
?H:#$d_sockaddr_sa_len HAS_SOCKADDR_SA_LEN /**/
?H:#$d_oldsock USE_OLDSOCKET /**/
?H:#$d_msg_ctrunc HAS_MSG_CTRUNC /**/
?H:#$d_msg_dontroute HAS_MSG_DONTROUTE /**/
?H:#$d_msg_oob HAS_MSG_OOB /**/
?H:#$d_msg_peek HAS_MSG_PEEK /**/
?H:#$d_msg_proxy HAS_MSG_PROXY /**/
?H:#$d_scm_rights HAS_SCM_RIGHTS /**/
?H:#$d_sockaddr_in6 HAS_SOCKADDR_IN6 /**/
?H:#$d_sockaddr_storage HAS_SOCKADDR_STORAGE /**/
?H:#$d_sin6_scope_id HAS_SIN6_SCOPE_ID /**/
?H:#$d_ip_mreq HAS_IP_MREQ /**/
?H:#$d_ip_mreq_source HAS_IP_MREQ_SOURCE /**/
?H:#$d_ipv6_mreq HAS_IPV6_MREQ /**/
?H:#$d_ipv6_mreq_source HAS_IPV6_MREQ_SOURCE /**/
?H:.
?T:val net ENUM enum
?LINT:set d_sockpair d_sockaddr_sa_len
?LINT:set d_msg_ctrunc d_msg_dontroute
 d_msg_oob d_msg_peek d_msg_proxy
?LINT:set d_scm_rights d_sockaddr_in6 d_sin6_scope_id d_ip_mreq
?LINT:set d_ip_mreq_source d_ipv6_mreq d_ipv6_mreq_source d_sockaddr_storage
: see whether socket exists
socketlib=''
sockethdr=''
echo " "
$echo $n "Hmm... $c" >&4
```

```
if set socket val -f d_socket; eval $csym; $val; then
   echo "Looks like you have Berkeley networking support." >&4
   d_socket="$define"
?X: now check for advanced features
   if set setsockopt val -f; eval $csym; $val; then
 d_oldsock="$undef"
   else
 echo "...but it uses the old BSD 4.1c interface, rather than 4.2." >&4
 d_oldsock="$define"
   fi
else
?X: HP-UX, for one, puts all the socket stuff in socklib.o. Note that if we
?X: come here on HP-UX, then we must have used nm to get symbols, or we really
?X: don't have sockets anyway...
   if $contains socklib libc.list >/dev/null 2>&1; then
 echo "Looks like you have Berkeley networking support." >&4
 d_socket="$define"
 : we will have to assume that it supports
 the 4.2 BSD interface
 d_oldsock="$undef"
   else
 echo "You don't have Berkeley networking in libc$_a..." >&4
?X: look for optional networking libraries
 if test "X$d_socket" = "X$define"; then
     echo "...but you seem to believe that you have sockets." >&4
 else
     for net in net socket
     do
  if test -f $sysroot/usr/lib/lib$net$_a; then
?X: space between two  '(' needed for ksh
      ( ($nm $nm_opt $sysroot/usr/lib/lib$net$_a | eval $nm_extract) ||  \
      $ar t $sysroot/usr/lib/lib$net$_a) 2>/dev/null >> libc.list
      if $contains socket libc.list >/dev/null 2>&1; then
   d_socket="$define"
   socketlib="-l$net"
   case "$net" in
   net)
       echo "...but the Wollongong group seems to have hacked it in." >&4
       sockethdr="-I$sysroot/usr/netinclude"
       ;;
   esac
   echo "Found Berkeley sockets interface in lib$net." >&4
?X: now check for advanced features
   if $contains setsockopt libc.list >/dev/null 2>&1; then
       d_oldsock="$undef"
   else
       echo
```

```
 "...using the old BSD 4.1c interface, rather than 4.2." >&4
      d_oldsock="$define"
   fi
   break
     fi
  fi
    done
    if test "X$d_socket" != "X$define"; then
       echo "or anywhere else I see." >&4
       d_socket="$undef"
       d_oldsock="$undef"
    fi
 fi
   fi
fi

@if HAS_SOCKETPAIR || d_sockpair
: see if socketpair exists
set socketpair d_sockpair
eval $inlibc

@end

echo "Checking the availability sa_len in the sock struct ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
int main() {
struct sockaddr sa;
return (sa.sa_len);
}
EOF
val="$undef"
set try; if eval $compile; then
   val="$define"
fi
set d_sockaddr_sa_len; eval $setvar
$rm_try

echo "Checking the availability struct sockaddr_in6 ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct sockaddr_in6 sin6;
return (sin6.sin6_family);
}
```

```
EOF
val="$undef"
set try; if eval $compile; then
   val="$define"
fi
set d_sockaddr_in6;
 eval $setvar
$rm_try

echo "Checking the availability struct sockaddr_storage ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct sockaddr_storage sastor;
return (sastor.ss_family);
}
EOF
val="$undef"
set try; if eval $compile; then
   val="$define"
fi
set d_sockaddr_storage; eval $setvar
$rm_try

echo "Checking the availability sin6_scope_id in struct sockaddr_in6 ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct sockaddr_in6 sin6;
return (sin6.sin6_scope_id);
}
EOF
val="$undef"
set try; if eval $compile; then
   val="$define"
fi
set d_sin6_scope_id; eval $setvar
$rm_try

echo "Checking the availability struct ip_mreq ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
```

```
int main() {
struct ip_mreq mreq;
return (mreq.imr_multiaddr.s_addr);
}
EOF
val="$undef"
set try; if eval $compile; then

 val="$define"
fi
set d_ip_mreq; eval $setvar
$rm_try

echo "Checking the availability struct ip_mreq_source ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct ip_mreq_source mreq;
return (mreq.imr_multiaddr.s_addr);
}
EOF
val="$undef"
set try; if eval $compile; then
     val="$define"
fi
set d_ip_mreq_source; eval $setvar
$rm_try

echo "Checking the availability struct ipv6_mreq ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct ipv6_mreq mreq;
return (mreq.ipv6mr_interface);
}
EOF
val="$undef"
set try; if eval $compile; then
   val="$define"
fi
set d_ipv6_mreq; eval $setvar
$rm_try

echo "Checking the availability struct ipv6_mreq_source ..." >&4
```

```
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct ipv6_mreq_source mreq;
return (mreq.imr_multiaddr.s_addr);
}
EOF
val="$undef"
set try; if eval $compile;
 then
      val="$define"
fi
set d_ipv6_mreq_source; eval $setvar
$rm_try

?X: these constants are known to be troublesomely defined as enums
?X: so that ifdef will not work for detecting their presence.
echo "Checking the availability of certain socket constants..." >&4
for ENUM in MSG_CTRUNC MSG_DONTROUTE MSG_OOB MSG_PEEK MSG_PROXY SCM_RIGHTS; do
   enum=`$echo $ENUM|./tr '[A-Z]' '[a-z]'`
   $cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
int main() {
   int i = $ENUM;
}
EOF
   val="$undef"
   set try; if eval $compile; then
 val="$define"
   fi
   set d_${enum}; eval $setvar
   $rm_try
done
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_socket.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getprotby.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
?MAKE:d_getpbyname d_getpbynumber: Inlibc
?MAKE: -pick add $@ %<
?S:d_getpbyname:
?S: This variable conditionally defines the HAS_GETPROTOBYNAME
?S: symbol, which indicates to the C program that the
?S: getprotobyname() routine is available to look up protocols
?S: by their name.
?S:.
?S:d_getpbynumber:
?S: This variable conditionally defines the HAS_GETPROTOBYNUMBER
?S: symbol, which indicates to the C program that the
?S: getprotobynumber() routine is available to look up protocols
?S: by their number.
?S:.
?C:HAS_GETPROTOBYNAME:
?C: This symbol, if defined, indicates that the getprotobyname()
?C: routine is available to look up protocols by their name.
?C:.
?C:HAS_GETPROTOBYNUMBER:
?C: This
 symbol, if defined, indicates that the getprotobynumber()
?C: routine is available to look up protocols by their number.
?C:.
?H:#$d_getpbyname HAS_GETPROTOBYNAME  /**/
?H:#$d_getpbynumber HAS_GETPROTOBYNUMBER  /**/
?H:.
?LINT:set d_getpbyname d_getpbynumber
: Optional checks for getprotobyname and getprotobynumber

@if d_getpbyname || HAS_GETPROTOBYNAME
: see if getprotobyname exists
set getprotobyname d_getpbyname
eval $inlibc
@end

@if d_getpbynumber || HAS_GETPROTOBYNUMBER
: see if getprotobynumber exists
set getprotobynumber d_getpbynumber
eval $inlibc
@end
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_getprotby.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: sig_name.U 1 2006-08-24 12:32:52Z rmanfredi $

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sig_name.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  16:21:25  ram
?RCS: patch61: brand new algorithm for sig_name and (new!) sig_num
?RCS:
?RCS: Revision 3.0.1.4  1995/07/25  14:14:54  ram
?RCS: patch56: added <asm/signal.h> lookup for Linux
?RCS:
?RCS: Revision 3.0.1.3  1995/05/12  12:24:11  ram
?RCS: patch54: now looks for <linux/signal.h> too (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20  07:06:57  ram
?RCS: patch30: final echo was missing to close
 awk-printed string
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:17:55  ram
?RCS: patch23: signal list now formatted to avoid scroll-ups (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:sig_name sig_name_init sig_num sig_num_init sig_count sig_size: \
 awk Signal Oldconfig rm
?MAKE: -pick add $@ %<
?S:sig_name:
?S: This variable holds the signal names, space separated. The leading
?S: SIG in signal name is removed.  A ZERO is prepended to the list.
?S: This is currently not used, sig_name_init is used instead.
?S:.
?S:sig_name_init:
?S: This variable holds the signal names, enclosed in double quotes and
?S: separated by commas, suitable for use in the SIG_NAME definition
?S: below.  A "ZERO" is prepended to the list, and the list is
?S: terminated with a plain 0.  The leading SIG in signal names
?S: is removed. See sig_num.
?S:.
?S:sig_num:
?S: This variable holds the signal numbers, space separated. A ZERO is
?S: prepended
```

```
 to the list (corresponding to the fake SIGZERO).
?S: Those numbers correspond to  the value of the signal listed
?S: in the same place within the sig_name list.
?S: This is currently not used, sig_num_init is used instead.
?S:.
?S:sig_num_init:
?S: This variable holds the signal numbers, enclosed in double quotes and
?S: separated by commas, suitable for use in the SIG_NUM definition
?S: below.  A "ZERO" is prepended to the list, and the list is
?S: terminated with a plain 0.
?S:.
?S:sig_count (sig_name.U):
?S: This variable holds a number larger than the largest valid
?S: signal number.  This is usually the same as the NSIG macro.
?S:.
?S:sig_size:
?S: This variable contains the number of elements of the sig_name
?S: and sig_num arrays.
?S:.
?C:SIG_NAME:
?C: This symbol contains a list of signal names in order of
?C: signal number. This is intended
?C: to be used as a static array initialization, like this:
?C:  char *sig_name[] = { SIG_NAME };
?C: The signals in the list are separated
 with commas, and each signal
?C: is surrounded by double quotes. There is no leading SIG in the signal
?C: name, i.e. SIGQUIT is known as "QUIT".
?C: Gaps in the signal numbers (up to NSIG) are filled in with NUMnn,
?C: etc., where nn is the actual signal number (e.g. NUM37).
?C: The signal number for sig_name[i] is stored in sig_num[i].
?C: The last element is 0 to terminate the list with a NULL.  This
?C: corresponds to the 0 at the end of the sig_name_init list.
?C: Note that this variable is initialized from the sig_name_init,
?C: not from sig_name (which is unused).
?C:.
?C:SIG_NUM:
?C: This symbol contains a list of signal numbers, in the same order as the
?C: SIG_NAME list. It is suitable for static array initialization, as in:
?C:  int sig_num[] = { SIG_NUM };
?C: The signals in the list are separated with commas, and the indices
?C: within that list and the SIG_NAME list match, so it's easy to compute
?C: the signal name from a number or vice versa at the price of a small
?C: dynamic
 linear lookup.
?C: Duplicates are allowed, but are moved to the end of the list.
?C: The signal number corresponding to sig_name[i] is sig_number[i].
?C: if (i < NSIG) then sig_number[i] == i.
```

```
?C: The last element is 0, corresponding to the 0 at the end of
?C: the sig_name_init list.
?C: Note that this variable is initialized from the sig_num_init,
?C: not from sig_num (which is unused).
?C:.
?C:SIG_COUNT:
?C: This variable contains a number larger than the largest
?C: signal number.  This is usually the same as the NSIG macro.
?C:.
?C:SIG_SIZE:
?C: This variable contains the number of elements of the SIG_NAME
?C: and SIG_NUM arrays, excluding the final NULL entry.
?C:.
?H:#define SIG_NAME $sig_name_init  /**/
?H:#define SIG_NUM  $sig_num_init  /**/
?H:#define SIG_COUNT $sig_count   /**/
?H:#define SIG_SIZE $sig_size   /**/
?H:.
?T:i doinit
?F:!= !signal_cmd
?X: signal.cmd creates a file  signal.lst which has two columns:
?X: NAME  number, e.g.
?X:  HUP 1
?X: The list is
 sorted on signal number, with duplicates moved to
?X: the end..
: generate list of signal names
case "$sig_num_init" in
")
echo " "
case "$sig_name_init" in
") doinit=yes ;;
*)  case "$sig_num_init" in
   "|*,*) doinit=yes ;;
   esac ;;
esac
case "$doinit" in
yes)
 echo "Generating a list of signal names and numbers..." >&4
 . ./signal_cmd
 sig_count=`$awk '/^NSIG/ { printf "%d", $2 }' signal.lst`
 sig_name=`$awk 'BEGIN { printf "ZERO " }
   !/^NSIG/ { printf "%s ", $1 }' signal.lst`
 sig_num=`$awk  'BEGIN { printf "0 " }
   !/^NSIG/ { printf "%d ", $2 }' signal.lst`
 sig_name_init=`$awk 'BEGIN { printf "\"ZERO\", " }
        !/^NSIG/ { printf "\"%s\", ", $1 }
        END { printf "0\n" }' signal.lst`
```

```
 sig_num_init=`$awk  'BEGIN { printf "0, " }
        !/^NSIG/ { printf "%d, ", $2}
        END { printf "0\n"}' signal.lst`
 ;;
esac
echo "The following $sig_count signals are available:"
echo " "
echo $sig_name | $awk \
'BEGIN { linelen = 0 }
{
 for (i = 1; i <= NF; i++) {
  name
 = "SIG" $i " "
  linelen = linelen + length(name)
  if (linelen > 70) {
   printf "\n"
   linelen = length(name)
  }
  printf "%s", name
 }
 printf "\n"
}'
sig_size=`echo $sig_name | awk '{print NF}'`
$rm -f signal signal.c signal.awk signal.lst signal_cmd
;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/sig_name.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_termio.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_termio.U,v $
?RCS: Revision 3.0.1.4  1994/10/29  16:20:54  ram
?RCS: patch36: call ./usg and ./Cppsym explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.3  1994/08/29  16:26:38  ram
?RCS: patch32: don't include all threee I_* symbols in config.h
```

```
?RCS: patch32: (had forgotten to undo this part last time)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:25:03  ram
?RCS: patch27: undone ADO's fix in previous patch since it was useless
?RCS:
?RCS:
 Revision 3.0.1.1  1994/05/06  15:05:23  ram
?RCS: patch23: now include all three defines in config.h (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_termio i_sgtty i_termios: test Inlibc Cppsym Guess Setvar Findhdr Warn run
?MAKE: -pick add $@ %<
?S:i_termio:
?S: This variable conditionally defines the I_TERMIO symbol, which
?S: indicates to the C program that it should include <termio.h> rather
?S: than <sgtty.h>.
?S:.
?S:i_termios:
?S: This variable conditionally defines the I_TERMIOS symbol, which
?S: indicates to the C program that the POSIX <termios.h> file is
?S: to be included.
?S:.
?S:i_sgtty:
?S: This variable conditionally defines the I_SGTTY symbol, which
?S: indicates to the C program that it should include <sgtty.h> rather
?S: than <termio.h>.
?S:.
?C:I_TERMIO:
?C: This symbol, if defined, indicates that the program should include
?C: <termio.h> rather than <sgtty.h>.  There are also differences in
?C: the
 ioctl() calls that depend on the value of this symbol.
?C:.
?C:I_TERMIOS:
?C: This symbol, if defined, indicates that the program should include
?C: the POSIX termios.h rather than sgtty.h or termio.h.
?C: There are also differences in the ioctl() calls that depend on the
?C: value of this symbol.
?C:.
?C:I_SGTTY:
?C: This symbol, if defined, indicates that the program should include
?C: <sgtty.h> rather than <termio.h>.  There are also differences in
?C: the ioctl() calls that depend on the value of this symbol.
?C:.
?H:#$i_termio I_TERMIO  /**/
?H:#$i_termios I_TERMIOS  /**/
```

```
?H:#$i_sgtty I_SGTTY  /**/
?H:.
?T:val2 val3
?LINT:set i_termio i_sgtty i_termios
: see if this is a termio system
val="$undef"
val2="$undef"
val3="$undef"
?X: Prefer POSIX-approved termios.h over all else
if $test `./findhdr termios.h`; then
   set tcsetattr i_termios
   eval $inlibc
   val3="$i_termios"
fi
echo " "
case "$val3" in
   "$define") echo "You have POSIX termios.h... good!" >&4;;
   *)
  if ./Cppsym pyr; then
     case "`$run /bin/universe`" in
  ucb) if $test `./findhdr sgtty.h`; then
   val2="$define"
   echo "<sgtty.h> found." >&4
      else
   echo "System is pyramid with BSD universe."
   ./warn "<sgtty.h> not found--you could have problems."
      fi;;
  *)  if $test `./findhdr termio.h`; then
   val="$define"
   echo "<termio.h> found." >&4
      else
   echo "System is pyramid with USG universe."
   ./warn "<termio.h> not found--you could have problems."
      fi;;
     esac
?X: Start with USG to avoid problems if both usg/bsd was guessed
 elif ./usg; then
     if $test `./findhdr termio.h`; then
  echo "<termio.h> found." >&4
  val="$define"
     elif $test `./findhdr sgtty.h`; then
  echo "<sgtty.h> found." >&4
  val2="$define"
     else
  ./warn "Neither <termio.h> nor <sgtty.h> found--cross fingers!"
     fi
 else
     if $test `./findhdr sgtty.h`; then
```

```
  echo "<sgtty.h> found." >&4
  val2="$define"
     elif $test `./findhdr termio.h`; then
  echo "<termio.h>
 found." >&4
  val="$define"
     else
  ./warn "Neither <sgtty.h> nor <termio.h> found--cross fingers!"
     fi
 fi;;
esac
set i_termio; eval $setvar
val=$val2; set i_sgtty; eval $setvar
val=$val3; set i_termios; eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_termio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_syslog.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_syslog.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:46:56  ram
?RCS: patch61: replaced .o with $_o all over the place
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:43  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_syslog: test Csym Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_syslog:
?S: This variable conditionally defines the HAS_SYSLOG symbol, which
?S: indicates to the C program that syslog() exists on this system.
?S:.
?C:HAS_SYSLOG
 (LIBSYSLOG):
?C: This symbol, if defined, indicates that the program can rely on the
?C: system providing syslog().  Otherwise, the syslog code provided by
?C: the package should be used.
```

```
?C:.
?H:#$d_syslog HAS_SYSLOG /**/
?H:.
?LINT:set d_syslog
: see if syslog is available
echo " "
if $test `./findhdr syslog.h` && \
 (set syslog val -f d_syslog; eval $csym; $val); then
 echo "syslog() found." >&4
 val="$define"
else
 echo "syslog() not found in your C library." >&4
 val="$undef"
fi
set d_syslog
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_syslog.U
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```
?RCS: $Id$
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?RCS: Copyright (c) 1998 Jarkko Hietaniemi
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_off64_t: \
 Inlibc Setvar Compile rm_try cat lseeksize
?MAKE: -pick add $@ %<
?S:d_off64_t:
?S: This symbol will be defined if the C compiler supports off64_t.
?S:.
?C:HAS_OFF64_T:
?C: This symbol will be defined if the C compiler supports off64_t.
?C:.
?H:#$d_off64_t HAS_OFF64_T  /**/
?H:.
?LINT:set d_off64_t
: check for off64_t
echo " "
echo "Checking to see if you have off64_t..." >&4
$cat >try.c <<EOCP
#include <sys/types.h>
#include <unistd.h>
int main() { off64_t x = 7; }
```

```
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have off64_t."
else
 val="$undef"
 echo "You do not have off64_t."
 case "$lseeksize" in
 8) echo "(Your off_t is 64 bits, so you could use that.)" ;;
 esac
fi
$rm_try
set
 d_off64_t
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_off64_t.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_mbtowc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_mbtowc.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:30  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_mbtowc: Inlibc
?MAKE: -pick add $@ %<
?S:d_mbtowc:
?S: This variable conditionally defines the HAS_MBTOWC symbol, which
?S: indicates to the C program that the mbtowc() routine is available
?S: to convert multibyte to a wide character.
?S:.
?C:HAS_MBTOWC (MBTOWC):
?C: This symbol, if defined, indicates that the mbtowc routine is available
?C: to
 convert a multibyte to a wide character.
?C:.
```

```
?H:#$d_mbtowc HAS_MBTOWC  /**/
?H:.
?LINT:set d_mbtowc
: see if mbtowc exists
set mbtowc d_mbtowc
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_mbtowc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_memmem: Hasproto Inlibc Setvar d_gnulibc
?MAKE: -pick add $@ %<
?S:d_memmem:
?S: This variable conditionally defines the HAS_MEMMEM symbol, which
?S: indicates to the C program that the memmem() routine is available
?S: to return a pointer to the start of the first occurrence of a
?S: substring in a memory area (or NULL if not found).
?S:.
?C:HAS_MEMMEM:
?C: This symbol, if defined, indicates that the memmem routine is
?C: available to return a pointer to the start of the first occurrence
?C: of a substring in a memory area (or NULL if not found).
?C: In glibc, memmem is a GNU extension.  The function is visible in
?C: libc, but the prototype is only visible if _GNU_SOURCE is #defined.
?C: Thus we only define this if both the prototype and symbol are found.
?C:.
?H:#$d_memmem
 HAS_MEMMEM  /**/
?H:.
?T:d_memmem_proto xx1 xx2 xx3 xx4
?LINT:set d_memmem
: see if memmem exists
: We need both a prototype in string.h and the symbol in libc.
echo " "
d_memmem_proto=''
xx1="#$d_gnulibc HAS_GNULIBC"
xx2='#if defined(HAS_GNULIBC) && !defined(_GNU_SOURCE)'
xx3='#   define _GNU_SOURCE'
xx4='#endif'
set d_memmem_proto memmem literal "$xx1" literal "$xx2" literal "$xx3" literal "$xx4" define string.h
eval $hasproto
case "$d_memmem_proto" in
   define) # see if memmem exists
```

```
 set memmem d_memmem
 eval $inlibc
 ;;
   *)  val=$undef
 set d_memmem
 eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_memmem.U
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```
?RCS: $Id: d_strcspn.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strcspn.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:33  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strcspn: Inlibc
?MAKE: -pick add $@ %<
?S:d_strcspn:
?S: This variable conditionally defines the HAS_STRCSPN symbol, which
?S: indicates to the C program that the strcspn() routine is available
?S: to scan strings.
?S:.
?C:HAS_STRCSPN (STRCSPN):
?C: This symbol, if defined, indicates that the strcspn routine is
?C: available to scan
 strings.
?C:.
?H:#$d_strcspn HAS_STRCSPN  /**/
?H:.
?LINT:set d_strcspn
: see if strcspn exists
set strcspn d_strcspn
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strcspn.U
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```
?RCS: $Id$
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_drand48proto: Hasproto i_stdlib i_unistd
?MAKE: -pick add $@ %<
?S:d_drand48proto:
?S: This variable conditionally defines the HAS_DRAND48_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the drand48() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_DRAND48_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the drand48() function.  Otherwise, it is up
?C: to the program to supply one.  A good guess
 is
?C:  extern double drand48(void);
?C:.
?H:#$d_drand48proto HAS_DRAND48_PROTO /**/
?H:.
?LINT:set d_drand48proto
: see if prototype for drand48 is available
echo " "
set d_drand48proto drand48 $i_stdlib stdlib.h $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/d_drand48proto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Oldsym.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
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```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Oldsym.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:06:58  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit follows the creation of the config.sh file. It adds some
?X: special symbols: defines from patchlevel.h file if any and PERL_CONFIG_SH,
?X: which is set to true. Then, we try to keep all the new symbols that
?X: may come from a hint
 file or a previous config.sh file.
?X:
?MAKE:Oldsym: Config_sh cat test hint src sed sort uniq perl_patchlevel
?MAKE: -pick add $@ %<
?T:PERL_CONFIG_SH PERL_PATCHLEVEL sym tmp
?F:!UU
: add special variables
$test -f $src/patchlevel.h && \
awk '/^#define[  ]+PERL_/ {printf "%s=%s\n",$2,$3}' $src/patchlevel.h >>config.sh
echo "PERL_PATCHLEVEL='$perl_patchlevel'" >>config.sh
echo "PERL_CONFIG_SH=true" >>config.sh

: propagate old symbols
if $test -f UU/config.sh; then
?X: Make sure each symbol is unique in oldconfig.sh
 <UU/config.sh $sort | $uniq >UU/oldconfig.sh
?X:
?X: All the symbols that appear twice come only from config.sh (hence the
?X: two config.sh in the command line). These symbols will be removed by
?X: the uniq -u command. The oldsyms file thus contains all the symbols
?X: that did not appear in the produced config.sh (Larry Wall).
?X:
?X: Do not touch the -u flag of uniq.  This means you too, Jarkko.
?X:
 $sed -n 's/^\([a-zA-Z_0-9]*\)=.*/\1/p' \
  config.sh config.sh UU/oldconfig.sh
 |\
  $sort | $uniq -u >UU/oldsyms
 set X `$cat UU/oldsyms`
 shift
 case $# in
 0) ;;
```

```
 *)
  $cat <<EOM
Hmm...You had some extra variables I don't know about...I'll try to keep 'em...
EOM
  echo ": Variables propagated from previous config.sh file." >>config.sh
  for sym in `$cat UU/oldsyms`; do
   echo "    Propagating $hint variable '"$'"$sym..."
   eval 'tmp="$'"${sym}"'"'
   echo "$tmp" | \
    sed -e "s/'/'\''\''/g" -e "s/^/$sym='/" -e "s/$/'/" >>config.sh
  done
  ;;
 esac
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Oldsym.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
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?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:i_poll: Inhdr
?MAKE: -pick add $@ %<
?S:i_poll:
?S: This variable conditionally defines the I_POLL symbol, which
?S: indicates to the C program that it should include <poll.h>.
?S:.
?C:I_POLL:
?C: This symbol, if defined, indicates that the program may include
?C: <poll.h>.  If there is no <poll.h>, then you may check I_SYS_POLL
?C: instead to see whether there is a <sys/poll.h> to include.
?C:.
?H:#$i_poll I_POLL /**/
?H:.
?LINT:set i_poll
: see if there is a poll.h file
set poll.h i_poll
eval $inhdr
```

Found
 in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_poll.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_chown.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_chown.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:14  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_chown: Inlibc
?MAKE: -pick add $@ %<
?S:d_chown:
?S: This variable conditionally defines the HAS_CHOWN symbol, which
?S: indicates to the C program that the chown() routine is available.
?S:.
?C:HAS_CHOWN :
?C: This symbol, if defined, indicates that the chown routine is
?C: available.
?C:.
?H:#$d_chown
 HAS_CHOWN  /**/
?H:.
?LINT:set d_chown
: see if chown exists
set chown d_chown
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_chown.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
```

```
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_cmsghdr_s: Hasstruct i_systypes d_socket i_sysuio Setvar
?MAKE: -pick add $@ %<
?S:d_cmsghdr_s:
?S: This variable conditionally defines the HAS_STRUCT_CMSGHDR symbol,
?S: which indicates that the struct cmsghdr is supported.
?S:.
?C:HAS_STRUCT_CMSGHDR:
?C: This symbol, if defined, indicates that the struct cmsghdr
?C: is supported.
?C:.
?H:#$d_cmsghdr_s HAS_STRUCT_CMSGHDR /**/
?H:.
?LINT:set d_cmsghdr_s
: Check for cmsghdr support
echo " "
echo "Checking to see if your system supports struct cmsghdr..." >&4
set d_cmsghdr_s cmsghdr $i_systypes sys/types.h $d_socket sys/socket.h $i_sysuio sys/uio.h
eval $hasstruct
case "$d_cmsghdr_s" in
"$define")      echo "Yes, it does."   ;;
*)              echo
 "No, it doesn't." ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_cmsghdr_s.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
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?RCS:
?MAKE:d_getfsstat : Inlibc
?MAKE: -pick add $@ %<
?S:d_getfsstat:
?S: This variable conditionally defines the HAS_GETFSSTAT symbol, which
?S: indicates to the C program that the getfsstat() routine is available.
?S:.
?C:HAS_GETFSSTAT:
?C: This symbol, if defined, indicates that the getfsstat routine is
```

```
?C: available to stat filesystems in bulk.
?C:.
?H:#$d_getfsstat HAS_GETFSSTAT  /**/
?H:.
?LINT:set d_getfsstat
: see if getfsstat exists
set getfsstat d_getfsstat
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_getfsstat.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sbrksmart.U,v $
?RCS: Revision 3.0.1.2  1995/01/11  15:35:41  ram
?RCS: patch45: now sets sbrksmart to undef explicitly when lacking sbrk()
?RCS: patch45: forgot a cast when using return value from sbrk()
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:16:45  ram
?RCS: patch16: created
?RCS:
?MAKE:sbrksmart: cat d_sbrk +cc +ccflags +libs rm
?MAKE: -pick add $@ %<
?S:sbrksmart:
?S: This variable conditionally defines HAS_SMART_SBRK if the sbrk()
?S: routine honors a negative argument to lower the break
 value.
?S:.
?C:HAS_SMART_SBRK:
?C: This symbol is defined when the sbrk() system call may be used with
?C: a negative argument to lower the break value, therefore releasing
?C: core to the system. If not, you'd probably be better off using the
?C: mmap() system call.
?C:.
?H:#$sbrksmart HAS_SMART_SBRK /**/
?H:.
?T:dumb
```

```
?F:!sbrk
: see whether sbrk can release core to the kernel
echo " "
case "$d_sbrk" in
"$define")
 echo "Let's see if your sbrk() is smart enough to release core..." >&4
 $cat > sbrk.c <<EOC
#define INC 256  /* Small enough to be less than a page size */

int main()
{
 char *obrk = (char *) sbrk(0);
 char *nbrk;

 nbrk = (char *) sbrk(INC);
 if (nbrk == (char *) -1)
  exit(1); /* Not enough memory */
 if (nbrk != obrk)
  exit(2); /* Unreliable sbrk() */
 nbrk = (char *) sbrk(-INC);
 if (nbrk == (char *) -1)
  exit(3); /* May have understood negative arg as huge positive */
 if (obrk != (char *) sbrk(0))
  exit(4); /* Not smart, definitely */

 exit(0);  /* Ok */
}
EOC
 sbrksmart="$undef"
 dumb='--
 assuming dumb sbrk().'
 if $cc $ccflags -o sbrk sbrk.c $libs >/dev/null 2>&1; then
  ./sbrk >/dev/null 2>&1
  case $? in
  0) sbrksmart="$define"
   echo "Yes, it can be used with negative values." ;;
  1) echo "Sorry, not enough memory $dumb" ;;
  2) echo "No it's not, and besides it seems to be buggy..." ;;
  3) echo "No, it fails with negative values." ;;
  4) echo "Nope, your sbrk() is too dumb." ;;
  *) echo "Err... Unexpected result $dumb" ;;
  esac
 else
  echo "(Could not compile test program $dumb)"
 fi
 ;;
*)
 echo "Since you don't have sbrk(), let's forget about the smart test!"
```

```
 sbrksmart="$undef"
 ;;
esac
$rm -f sbrk sbrk.* core
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/sbrksmart.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libs.U,v 3.0.1.6 1997/02/28 16:09:11 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: libs.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  16:09:11  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.5  1995/07/25  14:12:05  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  16:24:22  ram
?RCS: patch36: removed old broken thislib/thatlib processing (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:05:44  ram
?RCS: patch30: code cleanup with if/elif by ADO and RAM
?RCS: patch30:
 undone patch23 for libswanted default setting
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:08:45  ram
?RCS: patch23: now includes ordered default libswanted variable (ADO)
?RCS: patch23: major cleanup for library lookups (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:02:31  ram
?RCS: patch6: added default for libs
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libs ignore_versioned_solibs libsfound libsfiles libsdirs libspath: \
 test cat Myread Oldconfig Loc libpth package xlibpth so _a \
 usesocks sed uselongdouble usequadmath
```

```
?MAKE: -pick add $@ %<
?S:libs:
?S: This variable holds the additional libraries we want to use.
?S: It is up to the Makefile to deal with it.  The list can be empty.
?S:.
?S:libsfound:
?S: This variable holds the full pathnames of the libraries
?S: we found and accepted.
?S:.
?S:libsfiles:
?S: This variable holds the filenames aka basenames of the libraries
?S: we found and accepted.
?S:.
?S:libsdirs:
?S: This
 variable holds the directory names aka dirnames of the libraries
?S: we found and accepted, duplicates are removed.
?S:.
?S:libspath:
?S: This variable holds the directory names probed for libraries.
?S:.
?S:ignore_versioned_solibs:
?S: This variable should be non-empty if non-versioned shared
?S: libraries (libfoo.so.x.y) are to be ignored (because they
?S: cannot be linked against).
?S:.
?T:xxx yyy thislib thisdir libswanted libstyle
?D:libs=''
?X:
?X: This order is chosen so that libraries  -lndir, -ldir, -lucb, -lbsd,
?X: -lBSD, -lPW, and -lx only get used if there are unresolved
?X: routines at link time.  Usually, these are backwards compatibility
?X: libraries, and may not be as reliable as the standard c library.
?X:
?X: The -lsocket -linet -lnsl order has been reported to be necessary
?X: for at least one SVR4 implementation.
?X: -lc must proceed -lucb or -lbsd for most Solaris applications.
?X: -lc_s proceeds -lc so we pick up the shared library version,
 if
?X: it is available.
?X:
?X: The ordering of c, posix, and cposix is a guess and almost
?X: certainly wrong on about half of all systems.
?X:
?X: Set proper libswanted in your private Myinit.U if needed.
?X:
?X:: default ordered library list
?X:libswanted='net socket inet bind nsl nm sdbm gdbm ndbm dbm malloc dl'
```

```
?X:libswanted="$libswanted dld sun m c_s c posix cposix ndir dir ucb"
?X:libswanted="$libswanted bsd BSD PW x"
?X:
?INIT:: default library list
?INIT:libswanted="
?INIT:: some systems want to use only the non-versioned libso:s
?INIT:ignore_versioned_solibs="
?LINT:extern usecbacktrace
?LINT:extern libscheck
?LINT:extern p
?LINT:use uselongdouble
: Looking for optional libraries
echo " "
echo "Checking for optional libraries..." >&4
case "$libs" in
' '|'') dflt='';;
*) dflt="$libs";;
esac
case "$libswanted" in
'') libswanted='c_s';;
esac
?X: libsocks has nasty naming scheme.
?X: This does not work if somebody wants SOCKS 4.
case "$usesocks" in
"$define") libswanted="$libswanted
 socks5 socks5_sh" ;;
esac
case "$usecbacktrace" in
"$define") libswanted="$libswanted bfd" ;;
esac
case "$usequadmath" in
"$define") libswanted="$libswanted quadmath" ;;
esac
libsfound="
libsfiles="
libsdirs="
libspath="
for thisdir in $libpth $xlibpth; do
 test -d $thisdir && libspath="$libspath $thisdir"
done
for thislib in $libswanted; do
 for thisdir in $libspath; do
    xxx="
    if $test ! -f "$xxx" -a "X$ignore_versioned_solibs" = "X"; then
  xxx=`ls $thisdir/lib$thislib.$so.[0-9] 2>/dev/null|sed -n '$p'`
        $test -f "$xxx" && eval $libscheck
  $test -f "$xxx" && libstyle=shared
  xxx=`ls $thisdir/lib$thislib.[0-9].$so 2>/dev/null|sed -n '$p'`
```

```
        $test -f "$xxx" && eval $libscheck
 $test -f "$xxx" && libstyle=shared
    fi
    if test ! -f "$xxx"; then
 xxx=$thisdir/lib$thislib.$so
        $test -f "$xxx" && eval $libscheck
 $test -f "$xxx" && libstyle=shared
    fi
    if test ! -f "$xxx"; then
 xxx=$thisdir/lib$thislib$_a
        $test -f "$xxx"
&& eval $libscheck
 $test -f "$xxx" && libstyle=static
    fi
    if test ! -f "$xxx"; then
 xxx=$thisdir/$thislib$_a
        $test -f "$xxx" && eval $libscheck
 $test -f "$xxx" && libstyle=static
    fi
    if test ! -f "$xxx"; then
 xxx=$thisdir/lib${thislib}_s$_a
        $test -f "$xxx" && eval $libscheck
 $test -f "$xxx" && libstyle=static
 $test -f "$xxx" && thislib=${thislib}_s
    fi
    if test ! -f "$xxx"; then
 xxx=$thisdir/Slib$thislib$_a
        $test -f "$xxx" && eval $libscheck
 $test -f "$xxx" && libstyle=static
    fi
    if $test -f "$xxx"; then
 case "$libstyle" in
 shared) echo "Found -l$thislib (shared)." ;;
 static) echo "Found -l$thislib." ;;
 *)      echo "Found -l$thislib ($libstyle)." ;;
 esac
 case " $dflt " in
 *"-l$thislib "*);;
 *) dflt="$dflt -l$thislib"
                libsfound="$libsfound $xxx"
                yyy=`basename $xxx`
                libsfiles="$libsfiles $yyy"
                yyy=`echo $xxx|$sed -e
"s%/$yyy\\$%%"`
                case " $libsdirs " in
                *" $yyy "*) ;;
                *) libsdirs="$libsdirs $yyy" ;;
                esac
```

```
    ;;
  esac
  break
    fi
 done
 if $test ! -f "$xxx"; then
    echo "No -l$thislib."
 fi
done
set X $dflt
shift
dflt="$*"
case "$libs" in
") dflt="$dflt";;
*) dflt="$libs";;
esac
case "$dflt" in
' '|") dflt='none';;
esac

$cat <<EOM

In order to compile $package on your machine, a number of libraries
are usually needed.  Include any other special libraries here as well.
Say "none" for none.  The default list is almost always right.
EOM

echo " "
rp="What libraries to use?"
. ./myread
case "$ans" in
none) libs=' ';;
*) libs="$ans";;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/libs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: contains.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 2020, Raphael Manfredi and Karl Williamson
?RCS:
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```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:compiler_warning: contains grep osname
?MAKE: -pick add $@ %<
?S:compiler_warning:
?S: This variable holds the command to check if the file specified as a
?S: parameter contains a compiler warning
?S:.
: See if a file contains compiler warnings
: See if a file contains compiler warnings
case "$osname" in
 'aix')
 cat >compiler_warning <<EOSS
# Sample for aix ('.5' indicates the column number in the line):
#    "op.h", line 203.5: 1506-159 (E) Bit field
 type specified for op_type
# Since the word 'warning' isn't present, use a fairly rigorous match of what
# warning messages look like
#            "    o       p       .  h   ", line    203      .   5       :   1506     -    159      (  E  )
$grep -E "^\\"[A-Za-z][A-Za-z0-9_]*\.[ch]\\", line [1-9][0-9]*[.][1-9][0-9]*: [1-9][0-9]*-[1-9][0-9]* \([EW][)] "
"\$1"
EOSS
      compiler_warning=./compiler_warning
      chmod +x $compiler_warning
   ;;
    # Maybe a colon after the 'warning' would be appropriate
 *) compiler_warning="$contains -i warning"
   ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/compiler_warning.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_memmove.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memmove.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:35  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?MAKE:d_memmove: Inlibc
?MAKE: -pick add $@ %<
?S:d_memmove:
?S: This variable conditionally defines the HAS_MEMMOVE symbol, which
?S: indicates to the C program that the memmove() routine is available
?S: to copy potentially overlapping blocks of memory.
?S:.
?C:HAS_MEMMOVE:
?C: This symbol, if defined, indicates that the memmove routine
 is available
?C: to copy potentially overlapping blocks of memory. This should be used
?C: only when HAS_SAFE_BCOPY is not defined. If neither is there, roll your
?C: own version.
?C:.
?H:#$d_memmove HAS_MEMMOVE /**/
?H:.
?LINT:set d_memmove
: see if memmove exists
set memmove d_memmove
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_memmove.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_flockproto: Hasproto i_sysfile
?MAKE: -pick add $@ %<
?S:d_flockproto:
?S: This variable conditionally defines the HAS_FLOCK_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the flock() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_FLOCK_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the flock() function.  Otherwise, it is up
```

```
?C: to the program to supply one.  A good guess is
?C:  extern int flock(int,
 int);
?C:.
?H:#$d_flockproto HAS_FLOCK_PROTO /**/
?H:.
?LINT:set d_flockproto
: see if prototype for flock is available
echo " "
set d_flockproto flock $i_sysfile sys/file.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_flockproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msg.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:37  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_msg: test d_msgctl d_msgget d_msgsnd d_msgrcv Setvar Findhdr osname
?MAKE: -pick add $@ %<
?S:d_msg:
?S: This variable conditionally defines the HAS_MSG symbol, which
?S: indicates that the entire msg*(2) library is present.
?S:.
?C:HAS_MSG:
?C: This symbol, if defined, indicates that the entire msg*(2) library is
?C: supported (IPC mechanism based on message queues).
?C:.
?H:#$d_msg
 HAS_MSG  /**/
?H:.
?T:h_msg
?LINT:set d_msg
: see how much of the 'msg*(2)' library is present.
h_msg=true
```

```
echo " "
case "$d_msgctl$d_msgget$d_msgsnd$d_msgrcv" in
*"$undef"*) h_msg=false;;
esac
case "$osname" in
freebsd)
   case "`ipcs 2>&1`" in
   "SVID messages"*"not configured"*)
 echo "Your $osname does not have the msg*(2) configured." >&4
       h_msg=false
 val="$undef"
 set msgctl d_msgctl
 eval $setvar
 set msgget d_msgget
 eval $setvar
 set msgsnd d_msgsnd
 eval $setvar
 set msgrcv d_msgrcv
 eval $setvar
 ;;
   esac
   ;;
esac
: we could also check for sys/ipc.h ...
if $h_msg && $test `./findhdr sys/msg.h`; then
 echo "You have the full msg*(2) library." >&4
 val="$define"
else
 echo "You don't have the full msg*(2) library." >&4
 val="$undef"
fi
set d_msg
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_msg.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: d_gethbynm.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_gethbynm: Inlibc
?MAKE: -pick add $@ %<
?S:d_gethbynm (d_gethhstby):
?S: This variable conditionally defines the HAS_GETHOSTBYNAME symbol, which
?S: indicates to the C program that the gethostbyname() routine is available
?S: to lookup host names in some data base or other.
?S:.
?C:HAS_GETHOSTBYNAME (GETHOSTBYNAME):
?C: This symbol, if defined, indicates that the gethostbyname()
 routine is
?C: available to lookup host names in some data base or other.
?C:.
?H:#$d_gethbynm HAS_GETHOSTBYNAME  /**/
?H:.
?LINT:set d_gethbynm
: see if gethostbyname exists
set gethostbyname d_gethbynm
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_gethbynm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_speedopt.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_speedopt.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:15:51  ram
?RCS: patch36: call ./Cppsym explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_speedopt: Myread Cppsym Oldconfig cat models Setvar
?MAKE: -pick add $@ %<
```

```
?S:d_speedopt:
?S: This variable conditionally defines the SPEED_OVER_MEM symbol, which
?S: indicates to the C program that it can
 burn memory in order to save
?S: CPU time.
?S:.
?C:SPEED_OVER_MEM (SPEEDOVERMEM):
?C: This symbol, if defined, indicates that the program can use more
?C: memory in order to reduce CPU time.  The symbol doesn't say whether
?C: we are more interested in saving text space or data space.
?C:.
?H:#$d_speedopt SPEED_OVER_MEM /**/
?H:.
?LINT:set d_speedopt
: do we want speed at the expense of memory
$cat <<'EOM'

I can try to optimize this package for either speed or memory.  If you have
limited address space you may wish to optimize for memory.  Otherwise you
should probably optimize for speed.

EOM
case "$d_speedopt" in
") if ./Cppsym $smallmach; then
 case "$models" in
  *large*|*huge*) dflt=speed;;
  *) dflt=memory;;
  esac
 else
  dflt=speed
 fi
 ;;
*define*) dflt=speed;;
*) dflt=memory;;
esac
rp="What to optimize for?"
. ./myread
case "$ans" in
mem*) val="$undef";;
*) val="$define";;
esac
set d_speedopt
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_speedopt.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpgid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getpgid.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:33:44  ram
?RCS: patch61: created
?RCS:
?MAKE:d_getpgid: Inlibc
?MAKE: -pick add $@ %<
?S:d_getpgid:
?S: This variable conditionally defines the HAS_GETPGID symbol, which
?S: indicates to the C program that the getpgid(pid) function
?S: is available to get the process group id.
?S:.
?C:HAS_GETPGID:
?C: This symbol, if defined, indicates to the C program
 that
?C: the getpgid(pid) function is available to get the
?C: process group id.
?C:.
?H:#$d_getpgid HAS_GETPGID  /**/
?H:.
?LINT:set d_getpgid
: see if getpgid exists
set getpgid d_getpgid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getpgid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Magic_h.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Magic_h.U,v $
?RCS: Revision 3.0.1.2  1993/11/10  17:32:58  ram
?RCS: patch14: forgot to mention Id in the dependencies
?RCS:
?RCS: Revision 3.0.1.1  1993/10/16  13:46:59  ram
?RCS: patch12: created for ?M: lines support (magic symbols)
?RCS:
?X:
?X: This file ends up producing the confmagic.h include, which is used to
?X: automagically remap some C symbols via cpp redefinitions.
?X:
?X: The file ./Magic_h below contains all the ?M: lines extracted out
 of all
?X: the units.  Metaconfig itself adds the final #endif statement.
?X: Note that this code isn't included into Configure, but must be shipped with.
?X:
?MAKE:Magic_h: Id Config_h
?MAKE: -pick cm_h_weed $@ %<
?MAKE: -pick cm_h_weed $@ ./Magic_h
?LINT:nocomment
/*
* This file was produced by running metaconfig and is intended to be included
* after config.h and after all the other needed includes have been dealt with.
*
* This file may be empty, and should not be edited. Rerun metaconfig instead.
* If you wish to get rid of this magic, remove this file and rerun metaconfig
* without the -M option.
*
*  $Id: Magic_h.U 1 2006-08-24 12:32:52Z rmanfredi $
*/

#ifndef _confmagic_h_
#define _confmagic_h_
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Magic_h.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: locdist.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: locdist.U,v $
?RCS: Revision 3.0.1.1  1994/05/06  15:09:20  ram
?RCS: patch23: added support for multi-state regions (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:06  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:locdist orgdist citydist statedist multistatedist cntrydist contdist: \
 test newslibexp cat Myread Oldconfig
?MAKE: -pick add $@ %<
?S:locdist:
?S: This variable contains the eventual value of the LOCDIST symbol,
?S: which
 is the local organization's distribution name for news.
?S:.
?S:orgdist:
?S: This variable contains the eventual value of the ORGDIST symbol,
?S: which is the organization's distribution name for news.
?S:.
?S:citydist:
?S: This variable contains the eventual value of the CITYDIST symbol,
?S: which is the city's distribution name for news.
?S:.
?S:statedist:
?S: This variable contains the eventual value of the STATEDIST symbol,
?S: which is the state's or province's distribution name for news.
?S:.
?S:multistatedist:
?S: This variable contains the eventual value of the MULTISTATEDIST symbol,
?S: which is the news distribution code for multi-state region.
?S:.
?S:cntrydist:
?S: This variable contains the eventual value of the CNTRYDIST symbol,
?S: which is the country's distribution name for news.
?S:.
?S:contdist:
?S: This variable contains the eventual value of the CONTDIST symbol,
?S: which is the continent's distribution name for news.
?S:.
?C:LOCDIST:
?C: This symbol contains the
 distribution name for the news system that
?C: restricts article distribution to the local organization.
```

```
?C:.
?C:ORGDIST:
?C: This symbol contains the distribution name for the news system that
?C: restricts article distribution to the organization.
?C:.
?C:CITYDIST:
?C: This symbol contains the distribution name for the news system that
?C: restricts article distribution to the city.
?C:.
?C:STATEDIST:
?C: This symbol contains the distribution name for the news system that
?C: restricts article distribution to the state or province.
?C:.
?C:MULTISTATEDIST:
?C: This symbol contains the distribution name for the news system that
?C: restricts article distribution to a multi-state region.
?C:.
?C:CNTRYDIST:
?C: This symbol contains the distribution name for the news system that
?C: restricts article distribution to the country.
?C:.
?C:CONTDIST:
?C: This symbol contains the distribution name for the news system that
?C: restricts article distribution to the continent.
?C:.
?H:#define LOCDIST
 "$locdist"  /**/
?H:#define ORGDIST "$orgdist"  /**/
?H:#define CITYDIST "$citydist"  /**/
?H:#define MULTISTATEDIST "$multistatedist" /**/
?H:#define STATEDIST "$statedist"  /**/
?H:#define CNTRYDIST "$cntrydist"  /**/
?H:#define CONTDIST "$contdist"  /**/
?H:.
: get the local distributions
$cat <<'EOH'

Distribution groups are the things you use on the Distribution line to limit
where an article will go to.  You are likely to be a member of several
distribution groups, such as organization, city, state, province, country,
continent, etc.  For example, Los Angeles has the distribution code "la",
New Jersey has the code "nj", and Europe has the code "eunet".

The categories you will be asked are:

local organization (Could be just one machine or a cluster or an office)
organization  att, dec, kgb, ...
city   la, ny, mosc, ...
```

```
state/province  ca, nj, bc, ...
multi-state region pnw, ne, ...
country   usa, can, rok, whatever
continent  na (North America), asia, etc.

EOH
if $test
 -f $newslibexp/distributions; then
 case "$silent" in
 true) ;;
 *) dflt='Hit return to continue'
  rp=''
  . ./myread
  ;;
 esac
 echo "Here is your distributions file:" >&4
 echo " " >&4
 $cat >&4 $newslibexp/distributions
 echo " " >&4
fi
echo "Use 'none' for any distributions you don't have."
echo " "
case "$locdist" in
'') dflt="none";;
*)  dflt="$locdist";;
esac
rp="What is the distribution code for your local organization?"
. ./myread
locdist="$ans"
case "$orgdist" in
'') dflt="none";;
*)  dflt="$orgdist";;
esac
rp="What is the distribution code for your organization?"
. ./myread
orgdist="$ans"
case "$citydist" in
'') dflt="none";;
*)  dflt="$citydist";;
esac
rp="What is the distribution code for your city?"
. ./myread
citydist="$ans"
case "$statedist" in
'') dflt="none";;
*)  dflt="$statedist";;
esac
rp="What is the distribution code for your state/province?"
```

```
. ./myread
statedist="$ans"
case "$multistatedist" in
") dflt="none";;
*) dflt="$multistatedist";;
esac
rp="What is the
 distribution code for your multi-state region?"
. ./myread
multistatedist="$ans"
case "$cntrydist" in
") dflt="none";;
*)  dflt="$cntrydist";;
esac
rp="What is the distribution code for your country?"
. ./myread
cntrydist="$ans"
case "$contdist" in
") dflt="none";;
*)  dflt="$contdist";;
esac
rp="What is the distribution code for your continent?"
. ./myread
contdist="$ans"
$cat <<'EOM'

If you have any other distribution groups you will need to edit Pnews
and newsetup to add them.
EOM
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/locdist.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: gidtype.U,v $
?RCS: Revision 3.0.1.3  1994/08/29  16:21:44  ram
?RCS: patch32: now uses new Typedef unit to compute type information
```

```
?RCS: patch32: removed useless usage of Setvar (for now)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:21:07  ram
?RCS: patch27: added lint hint
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:01:51  ram
?RCS: patch23: protected gidtype setting via setvar (ADO)
?RCS: patch23: made Gid_t comment more explicit (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:11  ram
?RCS:
 Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:gidtype: Myread Typedef Findhdr
?MAKE: -pick add $@ %<
?S:gidtype:
?S: This variable defines Gid_t to be something like gid_t, int,
?S: ushort, or whatever type is used to declare the return type
?S: of getgid().  Typically, it is the type of group ids in the kernel.
?S:.
?C:Gid_t (GIDTYPE):
?C: This symbol holds the return type of getgid() and the type of
?C: argument to setrgid() and related functions.  Typically,
?C: it is the type of group ids in the kernel. It can be int, ushort,
?C: uid_t, etc... It may be necessary to include <sys/types.h> to get
?C: any typedef'ed information.
?C:.
?H:#define Gid_t $gidtype  /* Type for getgid(), etc... */
?H:.
?T:xxx
: see what type gids are declared as in the kernel
set gid_t gidtype xxx stdio.h sys/types.h
eval $typedef
case "$gidtype" in
xxx)
 xxx=`./findhdr sys/user.h`
 set `grep 'groups\[NGROUPS\];' "$xxx" 2>/dev/null` unsigned short
 case $1 in
 unsigned) dflt="$1 $2" ;;
 *) dflt="$1"
 ;;
 esac
 ;;
*) dflt="$gidtype";;
esac
echo " "
rp="What is the type for group ids returned by getgid()?"
. ./myread
```

```
gidtype="$ans"
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/gidtype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sbrk.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sbrk.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:06:31  ram
?RCS: patch16: created
?RCS:
?MAKE:d_sbrk: Inlibc
?MAKE: -pick add $@ %<
?S:d_sbrk:
?S: This variable conditionally defines HAS_SBRK if sbrk() is
?S: available to add more core to the process.
?S:.
?C:HAS_SBRK:
?C: This symbol, if defined, indicates that the sbrk system call is
?C: available to add/relase core. Always true on Unix.
?C:.
?H:#$d_sbrk HAS_SBRK /**/
?H:.
?LINT:set d_sbrk
: see
 if sbrk exists
set sbrk d_sbrk
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sbrk.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_malloc.U,v 3.1 2003/01/21 18:51:51 merijn Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: i_malloc.U,v $
?RCS: Revision 3.1  2003/01/21  18:51:51  merijn
?RCS: Moved to modified: Ihdr replaced with Compile
?RCS:
?RCS: $Log: i_malloc.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:21  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_malloc: cat rm_try Compile Setvar i_mallocmalloc
?MAKE: -pick add $@ %<
?S:i_malloc:
?S: This variable conditionally defines the I_MALLOC symbol, and indicates
?S: whether a C program should include <malloc.h>.
?S:.
?C:I_MALLOC:
?C: This
 symbol, if defined, indicates to the C program that it should
?C: include <malloc.h>.
?C:.
?H:#$i_malloc I_MALLOC  /**/
?H:.
?LINT:set i_malloc
: see if this is a malloc.h system
: we want a real compile instead of Inhdr because some systems have a
: malloc.h that just gives a compile error saying to use stdlib.h instead
echo " "
$cat >try.c <<EOCP
#include <stdlib.h>
#include <malloc.h>
#$i_mallocmalloc I_MALLOCMALLOC
#ifdef I_MALLOCMALLOC
# include <malloc/malloc.h>
#endif

int main () { return 0; }
EOCP
set try
if eval $compile; then
   echo "<malloc.h> found." >&4
   val="$define"
else
   echo "<malloc.h> NOT found." >&4
```

```
   val="$undef"
fi
$rm_try
set i_malloc
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_malloc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2014, H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_backtrace.U,v $
?RCS:
?MAKE:d_backtrace: Inlibc
?MAKE: -pick add $@ %<
?S:d_backtrace:
?S: This variable conditionally defines the HAS_BACKTRACE symbol, which
?S: indicates to the C program that the backtrace() routine is available
?S: to get a stack trace.
?S:.
?C:HAS_BACKTRACE:
?C: This symbol, if defined, indicates that the backtrace() routine is
?C: available to get a stack trace.  The <execinfo.h> header must be
?C: included to use this routine.
?C:.
?H:#$d_backtrace HAS_BACKTRACE /**/
?H:.
?LINT:set d_backtrace
:
 see if backtrace exists
set backtrace d_backtrace
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_backtrace.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: privlib.U,v $
?RCS: Revision 3.0.1.4  1995/09/25  09:17:09  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:44:23  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:31:52  ram
?RCS: patch32: now uses installation prefix
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:12:34  ram
?RCS: patch10: added support for /local/lib (WED)
?RCS: patch10: prompt phrasing made
 more explicit (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:privlib privlibexp installprivlib: afs package cat Getfile \
 Oldconfig Prefixit test
?MAKE: -pick add $@ %<
?Y:TOP
?S:privlib:
?S: This variable contains the eventual value of the PRIVLIB symbol,
?S: which is the name of the private library for this package.  It may
?S: have a ~ on the front. It is up to the makefile to eventually create
?S: this directory while performing installation (with ~ substitution).
?S:.
?S:privlibexp:
?S: This variable is the ~name expanded version of privlib, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?S:installprivlib:
?S: This variable is really the same as privlibexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?C:PRIVLIB:
```

```
?C: This symbol contains the name of the private library for this package.
?C: The library is
 private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.  The program
?C: should be prepared to do ~ expansion.
?C:.
?C:PRIVLIB_EXP:
?C: This symbol contains the ~name expanded version of PRIVLIB, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#define PRIVLIB "$privlib"  /**/
?H:#define PRIVLIB_EXP "$privlibexp"  /**/
?H:.
: determine where private executables go
set dflt privlib lib/$package
eval $prefixit
$cat <<EOM

There are some auxiliary files for $package that need to be put into a
private library directory that is accessible by everyone.

EOM
fn=d~+
rp='Pathname where the private library files will reside?'
. ./getfile
if $test "X$privlibexp" != "X$ansexp"; then
 installprivlib=''
fi
privlib="$ans"
privlibexp="$ansexp"
if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
private files reside from the directory in which they are installed
 (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installprivlib" in
 '') dflt=`echo $privlibexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installprivlib";;
 esac
 fn=de~
 rp='Where will private files be installed?'
 . ./getfile
 installprivlib="$ans"
else
```

```
 installprivlib="$privlibexp"
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/privlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:versiononly: cat Myread Setvar Devel
?MAKE: -pick add $@ %<
?LINT:set versiononly
?Y:TOP
?S:versiononly:
?S: If set, this symbol indicates that only the version-specific
?S: components of a perl installation should be installed.
?S: This may be useful for making a test installation of a new
?S: version without disturbing the existing installation.
?S: Setting versiononly is equivalent to setting installperl's -v option.
?S: In particular, the non-versioned scripts and programs such as
?S: a2p, c2ph, h2xs, pod2*, and perldoc
 are not installed
?S: (see INSTALL for a more complete list).  Nor are the man
?S: pages installed.
?S: Usually, this is undef.
?S:.
?LINT:extern inc_version_list
?LINT:change inc_version_list
?LINT:extern inc_version_list_init
?LINT:change inc_version_list_init
?LINT:extern version
: determine whether to use a version number suffix for installed binaries
echo " "
$cat <<EOM
Do you want to use a version number suffix for installed binaries? This
will install 'perl$version' instead of 'perl', and likewise for other
binaries like 'perldoc' and 'cpan'. This allows many versions of perl
to be installed side-by-side. Unless you are a developer, you probably
do *not* want to do this.
```

```
EOM
case "$versiononly" in
"$define"|[Yy]*|true) dflt='y' ;;
*) dflt='n';
esac
rp="Do you want to use a version number suffix for installed binaries?"
. ./myread
case "$ans" in
[yY]*) val="$define";;
*) val="$undef" ;;
esac
set versiononly
eval $setvar

case "$versiononly" in
"$define") inc_version_list="
        inc_version_list_init=0
        ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/versionony.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_alarm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_alarm.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:06:58  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_alarm: Inlibc
?MAKE: -pick add $@ %<
?S:d_alarm:
?S: This variable conditionally defines the HAS_ALARM symbol, which
?S: indicates to the C program that the alarm() routine is available.
?S:.
?C:HAS_ALARM :
```

```
?C: This symbol, if defined, indicates that the alarm routine is
?C: available.
?C:.
?H:#$d_alarm
 HAS_ALARM  /**/
?H:.
?LINT:set d_alarm
: see if alarm exists
set alarm d_alarm
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_alarm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libs.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  16:09:11  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.5  1995/07/25  14:12:05  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  16:24:22  ram
?RCS: patch36: removed old broken thislib/thatlib processing (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:05:44  ram
?RCS: patch30: code cleanup with if/elif by ADO and RAM
?RCS: patch30: undone patch23 for libswanted default
 setting
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:08:45  ram
?RCS: patch23: now includes ordered default libswanted variable (ADO)
?RCS: patch23: major cleanup for library lookups (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:02:31  ram
?RCS: patch6: added default for libs
?RCS:
```

```
?RCS: Revision 3.0  1993/08/18  12:09:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libs libsfound libsfiles libsdirs libspath libscheck: \
 test cat Myread Oldconfig Loc libpth package xlibpth so _a \
 +usesocks sed +cc +ccflags +ldflags rm
?MAKE: -pick add $@ %<
?S:libs:
?S: This variable holds the additional libraries we want to use.
?S: It is up to the Makefile to deal with it.  The list can be empty.
?S:.
?S:libsfound:
?S: This variable holds the full pathnames of the libraries
?S: we found and accepted.
?S:.
?S:libsfiles:
?S: This variable holds the filenames aka basenames of the libraries
?S: we found and accepted.
?S:.
?S:libsdirs:
?S: This variable holds the directory
 names aka dirnames of the libraries
?S: we found and accepted, duplicates are removed.
?S:.
?S:libspath:
?S: This variable holds the directory names probed for libraries.
?S:.
?S:libscheck:
?S: This variable is intended to be set by hint files, if needed.
?S: It should contain shell code that will be eval'ed with $xxx holding
?S: some library file.  It may change $xxx if needed.
?S: For instance, on an Irix platform, you may make sure the right
?S: library file is used depending on the cc command line, so that the
?S: correct library is used depending on the selected ABI (for 32 and
?S: 64-bit compilations).
?S:
?S: Here is an example of code that could be found in a hint file on Irix
?S: when the selected compiler was for 32-bit -- that code is put in the
?S: cc.cbu call-back unit to be invoked AFTER the C compiler and its
?S: flags have been chosen:
?S:
?S:  libscheck='case "$xxx" in
?S:  *.a) /bin/ar p $xxx `/bin/ar t $xxx | sed q` >$$.o;
?S:   case "`/usr/bin/file $$.o`" in
?S:   *N32*)
 rm -f $$.o ;;
?S:   *) rm -f $$.o; xxx=/no/n32$xxx ;;
?S:   esac ;;
```

```
?S:  *) case "`/usr/bin/file $xxx`" in
?S:   *N32*) ;;
?S:   *) xxx=/no/n32$xxx ;;
?S:   esac ;;
?S:  esac'
?S:.
?D:libs="
?LINT:extern libswanted
?LINT:change libswanted
?INIT:: default library list
?INIT:libswanted="
?X: This order is chosen so that libraries  -lndir, -ldir, -lucb, -lbsd,
?X: -lBSD, -lPW, and -lx only get used if there are unresolved
?X: routines at link time.  Usually, these are backwards compatability
?X: libraries, and may not be as reliable as the standard c library.
?X:
?X: The -lsocket -linet -lnsl order has been reported to be necessary
?X: for at least one SVR4 implementation.
?X: -lc must proceed -lucb or -lbsd for most Solaris applications.
?X: -lc_s proceeds -lc so we pick up the shared library version, if
?X: it is available.
?X:
?X: The ordering of c, posix, and cposix is a guess and almost
?X: certainly wrong on about half of all systems.
?X:
?X: Set proper libswanted in your private
 Myinit.U if needed.
?X:
?X:: default ordered library list
?X:libswanted='net socket inet bind nsl nm sdbm gdbm ndbm dbm malloc dl'
?X:libswanted="$libswanted dld sun m c_s c posix cposix ndir dir ucb"
?X:libswanted="$libswanted bsd BSD PW x"
?X:
?INIT:: should be set by hint files if needed
?INIT:libscheck="
?T:xxx yyy thislib thisdir libstyle linkmsg
?F:lt.c lt
: Looking for optional libraries
echo " "
echo "Checking for optional libraries..." >&4
case "$libs" in
' '|'') dflt='';;
*) dflt="$libs";;
esac
case "$libswanted" in
'') libswanted='c_s';;
esac
?X: libsocks has nasty naming scheme.
```

```
?X: This does not work if somebody wants SOCKS 4.
case "$usesocks" in
"$define") libswanted="$libswanted socks5 socks5_sh" ;;
esac
?X: Used later for link checks
echo "extern char printf(); int main() { printf(); return 0; }" > lt.c
libsfound="
libsfiles="
libsdirs="
libspath="
for thisdir in $libpth $xlibpth; do
 test -d $thisdir && libspath="$libspath $thisdir"
done
for thislib in $libswanted;
 do
 for thisdir in $libspath; do
    xxx="
    if $test ! -f "$xxx" ; then
   xxx=`ls $thisdir/lib$thislib.$so.[0-9]* 2>/dev/null | $sed -n '1p'`
   $test -f "$xxx" && eval $libscheck
   $test -f "$xxx" && libstyle=shared
    fi
    if test ! -f "$xxx"; then
   xxx=$thisdir/lib$thislib.$so
   $test -f "$xxx" && eval $libscheck
   $test -f "$xxx" && libstyle=shared
    fi
    if test ! -f "$xxx"; then
   xxx=$thisdir/lib$thislib$_a
        $test -f "$xxx" && eval $libscheck
   $test -f "$xxx" && libstyle=static
    fi
    if test ! -f "$xxx"; then
   xxx=$thisdir/$thislib$_a
        $test -f "$xxx" && eval $libscheck
   $test -f "$xxx" && libstyle=static
    fi
    if test ! -f "$xxx"; then
   xxx=$thisdir/lib${thislib}_s$_a
        $test -f "$xxx" && eval $libscheck
   $test -f "$xxx" && libstyle=static
   $test -f "$xxx" && thislib=${thislib}_s
    fi
    if test ! -f "$xxx"; then
   xxx=$thisdir/Slib$thislib$_a
        $test -f "$xxx" && eval $libscheck
   $test
```

```
 -f "$xxx" && libstyle=static
     fi
     if $test -f "$xxx"; then
?X:
?X: It is not sufficient to find a .so on the disk.  We must make sure
?X: that we can indeed supply the -lfoo line on the cc line to link against
?X: that library.  On Linux for instance, a versionned .so will not be
?X: implicitly linked against, whereas it will work fine on Solaris 2.6.
?X:  --RAM, 10/10/2003
?X:
   if $cc -o lt $ccflags $ldflags lt.c -l$thislib >/dev/null 2>&1;
   then
    linkmsg=""
   else
    linkmsg=" but I can't link against it"
   fi
   case "$libstyle" in
   shared) echo "Found -l$thislib (shared)$linkmsg." ;;
   static) echo "Found -l$thislib$linkmsg." ;;
   *)      echo "Found -l$thislib ($libstyle)$linkmsg." ;;
   esac
   case " $dflt " in
   *"-l$thislib "*) ;;
   *)
    case "$linkmsg" in
    ")
     dflt="$dflt -l$thislib"
     libsfound="$libsfound $xxx"
     yyy=`basename $xxx`
     libsfiles="$libsfiles $yyy"
     yyy=`echo $xxx|$sed -e "s%/$yyy\\$%%"`
     case " $libsdirs
 " in
     *" $yyy "*) ;;
     *) libsdirs="$libsdirs $yyy" ;;
     esac
       ;;
    esac
    ;;
   esac
   break
     fi
 done
 if $test ! -f "$xxx"; then
     echo "No -l$thislib."
 fi
done
set X $dflt
```

```
shift
dflt="$*"
case "$libs" in
") dflt="$dflt";;
*) dflt="$libs";;
esac
case "$dflt" in
' '|") dflt='none';;
esac
$rm -f lt.c lt

$cat <<EOM

In order to compile $package on your machine, a number of libraries
are usually needed.  Include any other special libraries here as well.
Say "none" for none.  The default list is almost always right.
EOM

echo " "
rp="Which libraries to use?"
. ./myread
case "$ans" in
none) libs=' ';;
*) libs="$ans";;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/libs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pidcheck.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_pidcheck.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:37:55  ram
?RCS: patch61: replaced .o with $_o all over the place
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:46  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?MAKE:d_pidcheck: cat rm +cc _o
?MAKE: -pick add $@ %<
?S:d_pidcheck:
?S: This variable conditionally defines the variable PIDCHECK
?S: which indicates that kill(pid, 0) will check for an
 active pid.
?S:.
?C:PIDCHECK:
?C: This symbol, if defined, means that the kill(pid, 0) will
?C: check for an active pid (i.e. the kernel will run all the
?C: necessary pid checks, but no signal is actually sent).
?C:.
?H:#$d_pidcheck PIDCHECK  /**/
?H:.
?F:!try
: check for "kill(pid, 0)"
echo " "
case "$d_pidcheck" in
"$define")
echo "I already know your system supports kill(pid, 0) for pid checks." >&4
 ;;
"$undef")
echo "We both know your system does not support signal #0 for pid checks." >&4
 ;;
*)
 echo "Checking to see if kill(pid, 0) works..." >&4
 $cat >try.c <<'EOCP'
int main()
 {
 int pid, status0, status9;

 if ((pid = fork()) == 0)
  {
  sleep(30);
  exit(1);
  }
 status0 = kill(pid, 0);
 status9 = kill(pid, 9);
 exit(status0 == status9);
 }
EOCP
 if $cc -o try try.c >/dev/null 2>&1 ; then
  if ./try >/dev/null 2>&1 ; then
   echo "Yes, it does marvels."
   d_pidcheck="$undef"
  else
   d_pidcheck="$define"
```

```
  echo "No, it doesn't."
 fi
else
 echo "(I was unable to compile
the test program.)"
 echo "Your system does not appear to support kill(pid, 0)."
 d_pidcheck="$undef"
fi
$rm -f try.c try$_o try
;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_pidcheck.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysuio.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysuio: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysuio:
?S: This variable conditionally defines the I_SYSUIO symbol, and indicates
?S: whether a C program should include <sys/uio.h>.
?S:.
?C:I_SYSUIO:
?C: This symbol, if defined, indicates that <sys/uio.h> exists and
?C: should be included.
?C:.
?H:#$i_sysuio I_SYSUIO  /**/
?H:.
?LINT:set i_sysuio
: see if this is a sys/uio.h system
set sys/uio.h i_sysuio
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_sysuio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
```

```
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_finitel: Inlibc
?MAKE: -pick add $@ %<
?S:d_finitel:
?S: This variable conditionally defines the HAS_FINITEL symbol, which
?S: indicates to the C program that the finitel() routine is available.
?S:.
?C:HAS_FINITEL:
?C: This symbol, if defined, indicates that the finitel routine is
?C: available to check whether a long double is finite
?C: (non-infinity non-NaN).
?C:.
?H:#$d_finitel HAS_FINITEL  /**/
?H:.
?LINT:set d_finitel
: see if finitel exists
set finitel d_finitel
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_finitel.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: cppfilecom.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Orginal Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: cppfilecom.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:37  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:cppfilecom cppstdinflags d_cppignhdrs d_cppcanstdin: \
 contains package test Myread Oldconfig Loc Setvar cpp cc cat rm
?MAKE: -pick add $@ %<
?S:cppfilecom:
```

```
?S: This variable contains the first part of the string which will invoke
?S: the C preprocessor a file
 and produce to standard output, preserving
?S: comments. Typical value of "cc -E -C" or "/lib/cpp -C".
?S:.
?S:cppstdinflags:
?S: This variable contains any flags necessary to get cppfilecom to read
?S: from the standard input.
?S:.
?S:d_cppignhdrs:
?S: This symbol conditionally defines CPP_IGN_HDRS if CPP_FILE_COM ignores
?S: *.h files.
?S:.
?S:d_cppcanstdin:
?S: This symbol conditionally defines CPP_CAN_STDIN if CPP_FILE_COM can
?S: read standard input directly.
?S:.
?C:CPP_FILE_COM (CPPFILECOM):
?C: This symbol contains the first part of the string which will invoke
?C: the C preprocessor a file and produce to standard output, preserving
?C: comments. Typical value of "cc -E -C" or "/lib/cpp -C".
?C:.
?C:CPP_STDIN_FLAGS (CPPSTDINFLAGS):
?C: This variable contains any flags necessary to get CPP_FILE_COM to
?C: read from the standard input.
?C:.
?C:CPP_IGN_HDRS (CPPIGNHDRS):
?C: This symbol is defined if CPP_FILE_COM ignores *.h files.
?C:.
?C:CPP_CAN_STDIN (CPPCANSTDIN):
?C: This
 symbol is defined if CPP_FILE_COM can read standard input
?C: directly.
?C:.
?H:#define CPP_FILE_COM "$cppfilecom"
?H:#define CPP_STDIN_FLAGS "$cppstdinflags"
?H:#$d_cppignhdrs CPP_IGN_HDRS  /* does CPP ignore .h files? */
?H:#$d_cppcanstdin CPP_CAN_STDIN  /* can CPP read stdin directly? */
?H:.
?T:cont
?F:!testcpp.c !testcpp.h !testcpp.out
?LINT:set d_cppcanstdin d_cppignhdrs
?LINT:usefile testcpp.c testcpp.out
: see how we invoke the C preprocessor
$cat <<EOM

$package needs to be able to preprocess its input files in a mode which
preserves comments, which is often not the default behaviour.  It should run
```

```
the C preprocessor you will use when compiling your own source code, which
should be ISO/ANSI C compliant if you want $package to handle the latest
standard C.  I will try to guess, but I might guess wrongly because it is not
necessarily the same preprocessor used to build $package.

EOM
$cat <<'EOT' >testcpp.c
#define ABC abc
#define XYZ xyz
ABC.XYZ
/* comment */
EOT
:
if $test "X$cppfilecom"
 != "X" && \
 $cppfilecom testcpp.c </dev/null >testcpp.out 2>/dev/null && \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
 $contains comment testcpp.out >/dev/null 2>&1
then
 echo "You used to use $cppfilecom so we'll use that again."
elif echo 'Maybe "'$cc' -E -C" will work...' && \
 $cc -E -C testcpp.c </dev/null >testcpp.out 2>/dev/null && \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
 $contains comment testcpp.out >/dev/null 2>&1
then
 echo "It works!"
 cppfilecom="$cc -E -C"
elif echo 'Nope...maybe """$cc"' -P -C" will work...' && \
 $cc -P -C testcpp.c </dev/null >testcpp.out 2>/dev/null && \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
 $contains comment testcpp.out >/dev/null 2>&1
then
 echo "Yup, that does."
 cppfilecom="$cc -P -C"
elif echo 'No such luck, maybe """$cpp"' -C" will work...' && \
 $cpp -C testcpp.c </dev/null >testcpp.out 2>/dev/null && \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
 $contains comment testcpp.out
 >/dev/null 2>&1
then
 echo "Yup, it does."
 cppfilecom="$cpp -C"
else
 cppfilecom="
 $cat <<'EOM'
I can't find a C preprocessor that will preserve comments. Please name one.
EOM
fi
```

```
:
dflt="$cppfilecom"
cont=true
while $test "$cont" ; do
 echo " "
 rp="How should $package run your preprocessor preserving comments?"
 . ./myread
 cppfilecom="$ans"
 $cppfilecom testcpp.c >testcpp.out 2>&1
 if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
  $contains comment testcpp.out >/dev/null 2>&1
 then
  echo "OK, that will do."
  cont=''
 else
  echo "Sorry, I can't get that to work."
 fi
done

@if CPP_IGN_HDRS || d_cppignhdrs
: Now see if it ignores header files.
cp testcpp.c testcpp.h
$cppfilecom testcpp.h >testcpp.out 2>&1
if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
 $contains comment testcpp.out >/dev/null 2>&1
then
 echo "Terrific; it processes .h files passed on the command line too."
 val="$undef"
else
 echo "It ignores .h files on the command line; pity."
 val="$define"
fi
set
 d_cppignhdrs
eval $setvar

@end
@if CPP_STDIN_FLAGS || CPP_CAN_STDIN || cppstdinflags || d_cppcanstdin
: Now see how to send stdin to it.
echo " "
cp testcpp.c testcpp.h
$cppfilecom <testcpp.h >testcpp.out 2>&1
if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
 $contains comment testcpp.out >/dev/null 2>&1
then
 echo "Great; and it will read stdin if passed no arguments."
 val="$define"
 cppstdinflags=''
```

```
else
 $cppfilecom - <testcpp.h >testcpp.out 2>&1
 if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
  $contains comment testcpp.out >/dev/null 2>&1
 then
  echo "Great; and it can read stdin by passing it '-'."
  val="$define"
  cppstdinflags='-'
 else
  $cat <<FOO
Unfortunately, I can't find an easy way to get that preprocessor to read from
standard input. Do you know any flags I can pass it to get it to do so?
If that preprocessor can't read directly form standard input, answer 'none'.

FOO
 val='dunno'
 while $test "$val" = "dunno"; do
  rp='Flags to get preprocessor
 to read stdin?'
  dflt='none'
  . ./myread
  if $test $ans = 'none'; then
   echo "Oh well, if $package wants it done, it will do it for itself."
   val="$undef"
  else
   $cppfilecom $ans <testcpp.h >testcpp.out 2>&1
   if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
    $contains comment testcpp.out >/dev/null 2>&1
   then
    echo "Good; that works fine."
    val="$define"
    cppstdinflags="$ans"
   else
    echo "Sorry, I couldn't get that to work."
   fi
  fi
 done
 fi
fi
set d_cppcanstdin
eval $setvar

@end
: cleanup cpp test files anyway
$rm -f testcpp.*

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
```

5.36.0/dist/U/cppfilecom.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: doublesize.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:17:06  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:06  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:doublesize: cat rm_try Myread +cc +ccflags
?MAKE: -pick add $@ %<
?S:doublesize:
?S: This variable contains the value of the DOUBLESIZE symbol, which
?S: indicates to the C program how many bytes there are in a double.
?S:.
?C:DOUBLESIZE:
?C: This symbol contains the
 size of a double, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define DOUBLESIZE $doublesize  /**/
?H:.
?F:!try
: check for length of double
echo " "
case "$doublesize" in
")
 echo "Checking to see how big your double precision numbers are..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
 printf("%d\n", sizeof(double));
}
EOCP
 if $cc $ccflags -o try try.c >/dev/null 2>&1 ; then
  dflt=`./try`
```

```
 else
  dflt='8'
  echo "(I can't seem to compile the test program.  Guessing...)"
 fi
 ;;
*)
 dflt="$doublesize"
 ;;
esac
rp="What is the size of a double precision number (in bytes)?"
. ./myread
doublesize="$ans"
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/doublesize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_newlocale d_freelocale d_uselocale d_duplocale d_querylocale \
 i_xlocale xlocale_needed: Inlibc Inhdr Compile cat rm_try run \
 d_localeconv_l
?MAKE: -pick add $@ %<
?S:d_newlocale:
?S: This variable conditionally defines the HAS_NEWLOCALE symbol, which
?S: indicates to the C program that the newlocale() routine is available
?S: to return a new locale object or modify an existing locale object.
?S:.
?S:d_freelocale:
?S: This variable conditionally defines the HAS_FREELOCALE symbol, which
?S: indicates to the C program that the freelocale() routine is available
?S: to deallocates the resources associated with a locale object.
?S:.
?S:d_uselocale:
?S: This variable conditionally defines the HAS_USELOCALE symbol, which
?S: indicates to the C program that the uselocale()
 routine is available
?S: to set the current locale for the calling thread.
?S:.
?S:d_duplocale:
?S: This variable conditionally defines the HAS_DUPLOCALE symbol, which
?S: indicates to the C program that the duplocale() routine is available
?S: to duplicate a locale object.
?S:.
?S:d_querylocale:
```

```
?S: This variable conditionally defines the HAS_QUERYLOCALE symbol, which
?S: indicates to the C program that the querylocale() routine is available
?S: to return the name of the locale for a category mask.
?S:.
?S:i_xlocale:
?S: This symbol, if defined, indicates to the C program that the
?S: header xlocale.h is available.  See also xlocale_needed.
?S:.
?S:xlocale_needed:
?S: This symbol, if defined, indicates that the C program should
?S: include <xlocale.h> to get newlocale() and its friends.
?S:.
?C:HAS_NEWLOCALE:
?C: This symbol, if defined, indicates that the newlocale routine is
?C: available to return a new locale object or modify an existing
?C: locale object.
?C:.
?C:HAS_FREELOCALE:
?C: This
 symbol, if defined, indicates that the freelocale routine is
?C: available to deallocates the resources associated with a locale object.
?C:.
?C:HAS_USELOCALE:
?C: This symbol, if defined, indicates that the uselocale routine is
?C: available to set the current locale for the calling thread.
?C:.
?C:HAS_DUPLOCALE:
?C: This symbol, if defined, indicates that the duplocale routine is
?C: available to duplicate a locale object.
?C:.
?C:HAS_QUERYLOCALE:
?C: This symbol, if defined, indicates that the querylocale routine is
?C: available to return the name of the locale for a category mask.
?C:.
?C:I_XLOCALE:
?C: This symbol, if defined, indicates to the C program that the
?C: header xlocale.h is available.  See also NEED_XLOCALE_H
?C:.
?C:NEED_XLOCALE_H:
?C: This symbol, if defined, indicates that the C program should
?C: include <xlocale.h> to get newlocale() and its friends.
?C:.
?H:#$d_newlocale HAS_NEWLOCALE /**/
?H:#$d_freelocale HAS_FREELOCALE /**/
?H:#$d_uselocale HAS_USELOCALE /**/
?H:#$d_duplocale HAS_DUPLOCALE /**/
?H:#$d_querylocale HAS_QUERYLOCALE /**/
?H:#$xlocale_needed NEED_XLOCALE_H /**/
```

```
?H:#$i_xlocale I_XLOCALE
            /**/
?H:.
?LINT:set i_xlocale
?LINT:set d_newlocale
?LINT:set d_freelocale
?LINT:set d_uselocale
?LINT:set d_duplocale
?LINT:set d_querylocale
?F:!try
: see if this is an xlocale.h system
set xlocale.h i_xlocale
eval $inhdr

: see if newlocale exists
set newlocale d_newlocale
eval $inlibc

: see if freelocale exists
set freelocale d_freelocale
eval $inlibc

: see if uselocale exists
set uselocale d_uselocale
eval $inlibc

: see if duplocale exists
set duplocale d_duplocale
eval $inlibc

: see if querylocale exists
set querylocale d_querylocale
eval $inlibc

: if we have xlocale.h, check whether it is needed
case "$i_xlocale$d_newlocale$xlocale_needed" in
"$define$define")
 echo "Checking if xlocale.h is needed..." >&4
 $cat >try.c <<EOF
#include <locale.h>
#include <stdio.h>
#ifdef TRY_XLOCALE
#include <xlocale.h>
#endif
#$d_localeconv_l
 HAVE_LOCALECONV_L

#ifdef HAVE_LOCALECONV_L
```

```
struct lconv *(*lcptr)(locale_t) = localeconv_l;
#endif

int main(void) {
 locale_t lc = newlocale(LC_ALL_MASK, "C", (locale_t)0);

#ifdef HAVE_LOCALECONV_L
 /* FreeBSD hides only localeconv_l() in xlocale.h */
 struct lconv *lcbuf = localeconv_l(lc);
 printf("decimal: %s\n", lcbuf->decimal_point);
#endif

 freelocale(lc);
 return 0;
}
EOF
 set try
 if eval $compile && $run ./try > /dev/null 2>&1 ; then
  echo "xlocale.h isn't needed" >&4
  xlocale_needed=$undef
 else
  set try -DTRY_XLOCALE
  if eval $compile && $run ./try > /dev/null 2>&1 ; then
   xlocale_needed=$define
   echo "xlocale.h is needed" >&4
  else
   echo "I can't build my test either way" >&4
   xlocale_needed=$undef
  fi
 fi
 $rm_try
 ;;
*) xlocale_needed=$undef ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_newlocale.U
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```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extract.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  14:58:52  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:51:46  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which can be doted in order to extract
?X: .SH files with variable substitutions.
?X:
?X: When running Configure from a remote directory ($src
 is not '.'),
?X: then the files will be created in that directory, so beware!
?X:
?MAKE:Extract: Mkdirp src
?MAKE: -pick add $@ %<
?F:./extract
?T:CONFIG SRC dir file
: script used to extract .SH files with variable substitutions
cat >extract <<EOS
CONFIG=true
SRC="$src"
EOS
cat >>extract <<'EOS'
echo "Doing variable substitutions on .SH files..."
if test -f "$SRC/MANIFEST"; then
 set x `awk '{print $1}' <$SRC/MANIFEST | grep '\.SH'`
else
 echo "(Looking for .SH files under the source directory.)"
 set x `(cd "$SRC"; find . -name "*.SH" -print)`
fi
shift
case $# in
0) set x `(cd "$SRC"; echo *.SH)`; shift;;
esac
if test ! -f "$SRC/$1"; then
 shift
fi
for file in $*; do
 case "$SRC" in
 ".")
  case "$file" in
```

```
  */*)
   dir=`expr X$file : 'X\(.*\)/'`
   file=`expr X$file : 'X.*/\(.*\)'`
   (cd $dir && . ./$file)
   ;;
  *)
   . ./$file
   ;;
  esac
  ;;
 *)
?X:
?X: When running Configure remotely ($src is not '.'), we cannot source
?X: the files directly, since that would wrongly cause
 the extraction
?X: where the source lie instead of withing the current directory. Therefore,
?X: we need to 'sh <file' then, which is okay since they will source the
?X: existing config.sh file. It's not possible to use:
?X:  ../src/Configure -S -O -Dsomething
?X: unfortunately since no new config.sh with the -Dsomething override
?X: will be created before running the .SH files. A minor buglet.
?X:
?X: Note that we must create the directory hierarchy ourselves if it does
?X: not exist already, and that is done through a shell emulation of the
?X: 'mkdir -p' command. We don't want to use the $installdir metaconfig
?X: symbol here since that would require too much to be configured for
?X: this simple extraction task that may happen quickly with 'Configure -S'.
?X:  -- RAM, 18/03/96
?X:
  case "$file" in
  */*)
   dir=`expr X$file : 'X\(.*\)/'`
   file=`expr X$file : 'X.*/\(.*\)'`
   ./mkdirp $dir
   sh <"$SRC/$dir/$file"
   ;;
  *)
   sh <"$SRC/$file"
   ;;
  esac
  ;;
 esac
done
if
 test -f "$SRC/config_h.SH"; then
 if test ! -f config.h; then
?X: oops, they left it out of MANIFEST, probably, so do it anyway.
  sh <"$SRC/config_h.SH"
```

```
 fi
fi
EOS
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Extract.U
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```
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?RCS:
?MAKE:d_openat d_unlinkat d_renameat d_linkat d_fchmodat: Inlibc
?MAKE: -pick add $@ %<
?S:d_fchmodat:
?S: This variable conditionally defines the HAS_FCHMODAT symbol, which
?S: indicates the POSIX fchmodat() function is available.
?S:.
?S:d_linkat:
?S: This variable conditionally defines the HAS_LINKAT symbol, which
?S: indicates the POSIX linkat() function is available.
?S:.
?S:d_openat:
?S: This variable conditionally defines the HAS_OPENAT symbol, which
?S: indicates the POSIX openat() function is available.
?S:.
?S:d_renameat:
?S: This variable conditionally defines the HAS_RENAMEAT symbol, which
?S: indicates the POSIX renameat() function is available.
?S:.
?S:d_unlinkat:
?S: This variable
 conditionally defines the HAS_UNLINKAT symbol, which
?S: indicates the POSIX unlinkat() function isavailable.
?S:.
?C:HAS_FCHMODAT:
?C: This symbol is defined if the fchmodat() routine is available.
?C:.
?C:HAS_LINKAT:
?C: This symbol is defined if the linkat() routine is available.
?C:.
?C:HAS_OPENAT:
?C: This symbol is defined if the openat() routine is available.
?C:.
?C:HAS_RENAMEAT:
?C: This symbol is defined if the renameat() routine is available.
```

```
?C:.
?C:HAS_UNLINKAT:
?C: This symbol is defined if the unlinkat() routine is available.
?C:.
?H:#$d_fchmodat HAS_FCHMODAT /**/
?H:#$d_linkat HAS_LINKAT /**/
?H:#$d_openat HAS_OPENAT /**/
?H:#$d_renameat HAS_RENAMEAT /**/
?H:#$d_unlinkat HAS_UNLINKAT /**/
?H:.
?LINT:set d_openat d_unlinkat d_renameat d_linkat d_fchmodat
: check for openat, unlinkat, renameat, linkat, fchmodat
set openat d_openat
eval $inlibc

set unlinkat d_unlinkat
eval $inlibc

set renameat d_renameat
eval $inlibc

set linkat d_linkat
eval $inlibc

set fchmodat d_fchmodat
eval
 $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fsat.U
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```
?RCS: $Id: d_semget.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_semget.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_semget: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_semget:
?S: This variable conditionally defines the HAS_SEMGET symbol, which
?S: indicates to the C program that the semget() routine is available.
?S:.
?C:HAS_SEMGET:
?C: This symbol, if defined, indicates that the semget() routine is
?C: available to get a set of semaphores.
?C:.
?H:#$d_semget
 HAS_SEMGET /**/
?H:.
?LINT:set d_semget
: see if semget exists
set semget d_semget
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_semget.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: errnolist.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:48:01  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: likewise for .o replaced by $_o
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:10:54  ram
?RCS: patch16: created
?RCS:
?MAKE:errnolist errnolist_SH errnolist_a errnolist_c errnolist_o: cat +cc \
 +ccflags +libs +d_sysernlst _a _o
?MAKE: -pick add $@ %<
?S:errnolist:
?S: This variable holds the base name of a file containing the
?S: definition of the sys_errnolist
 array, if the C library
?S: doesn't provide it already.  Otherwise, its value is empty.
```

```
?S: The following lines should be included in your Makefile.SH:
?S:
?S:  case "$errnolist" in
?S:  ") ;;
?S:  *)
?S:   $spitshell >>Makefile <<!GROK!THIS!
?S:  $errnolist_c: $errnolist_SH $errnolist_a
?S:   sh ./$errnolist_SH
?S:
?S:  !GROK!THIS!
?S:   ;;
?S:  esac
?S:
?S: You may define the 'errnolist' variable in your Myinit.U if you
?S: wish to override its default value "errnolist".
?S:.
?S:errnolist_SH:
?S: This is the name of a file which will generate errnolistc.
?S:.
?S:errnolist_a:
?S: This is the name of the awk script called by errnolist_SH.
?S:.
?S:errnolist_c:
?S: This is the name of a generated C file which provides the
?S: definition of the sys_errnolist array.
?S:.
?S:errnolist_o:
?S: This is the name of the object file which provides the
?S: definition of the sys_errnolist array, if the C library
?S: doesn't provide it already.  Otherwise, its value is empty.
?S:.
?INIT:errnolist=errnolist
:
 check for sys_errnolist
@if d_sysernlst || HAS_SYS_ERRNOLIST
case "$d_sysernlst" in
"$define")
   errnolist="
   errnolist_SH="
   errnolist_a="
   errnolist_c="
   errnolist_o="
 ;;
*)
 echo " "
 echo "I'll make sure your Makefile provides sys_errnolist in $errnolist.c"
   errnolist_SH=$errnolist.SH
   errnolist_a=$errnolist$_a
```

```
   errnolist_c=$errnolist.c
   errnolist_o=$errnolist$_o
 ;;
esac
@else
echo " "
$cat <<EOM
Checking to see if your C library provides us with sys_errnolist[]...
EOM
$cat >errnolist.c <<'EOCP'
extern char *sys_errnolist[];
int main() {
   char *p0 = sys_errnolist[0];
   char *p1 = sys_errnolist[1];

   return (p0 == p1); /* Make sure they're not optimized away */
}
EOCP
if $cc $ccflags -o errnolist errnolist.c $libs >/dev/null 2>&1 ; then
   echo "It does."
   errnolist="
   errnolist_SH="
   errnolist_a="
   errnolist_c="
   errnolist_o="
else
 echo "I'll make sure your Makefile provides sys_errnolist in $errnolist.c"

   errnolist_SH=$errnolist.SH
   errnolist_a=$errnolist$_a
   errnolist_c=$errnolist.c
   errnolist_o=$errnolist$_o
fi
@end
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/errnolist.U
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?RCS:
?MAKE:d_strtold_l: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_strtold_l:
?S: This variable conditionally defines the HAS_STRTOLD_L symbol, which
?S: indicates to the C program that the strtold_l() routine is available.
?S:.
?C:HAS_STRTOLD_L:
?C: This symbol, if defined, indicates that the strtold_l routine is
?C: available to convert strings to long doubles.
?C:.
?H:#$d_strtold_l HAS_STRTOLD_L  /**/
?H:.
?LINT:set d_strtold_l
: see if strtold_l exists
set strtold_l d_strtold_l
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_strtold_l.U
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```
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?RCS:
?MAKE:d_towlower: Inlibc
?MAKE: -pick add $@ %<
?S:d_towlower:
?S: This variable conditionally defines the HAS_TOWLOWER symbol, which
?S: indicates to the C program that the towlower() routine is available.
?S:.
?C:HAS_TOWLOWER:
?C: This symbol, if defined, indicates that the towlower () routine is
?C: available to do case conversion.
?C:.
?H:#$d_towlower HAS_TOWLOWER  /**/
?H:.
?LINT:set d_towlower
: see if towlower exists
set towlower d_towlower
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_towlower.U

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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?MAKE:usesocks: Myread Oldconfig Setvar spackage package
?MAKE: -pick add $@ %<
?Y:TOP
?S:usesocks:
?S: This variable conditionally defines the USE_SOCKS symbol,
?S: and indicates that Perl should be built to use SOCKS.
?S:.
?C:USE_SOCKS:
?C: This symbol, if defined, indicates that Perl should
?C: be built to use socks.
?C:.
?H:?%<:#$usesocks USE_SOCKS  /**/
?H:.
?D:usesocks="
?LINT:set usesocks
: check for requested SOCKS support
case "$usesocks" in
$define|true|[yY]*) dflt='y';;
*)
 dflt='n';;
esac
cat <<EOM

$spackage can be built to use the SOCKS proxy protocol library.
If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp="Build $package for SOCKS?"
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*)      val="$undef" ;;
esac
set usesocks
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/usesocks.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: bin.U,v $
?RCS: Revision 3.0.1.4  1995/09/25  09:15:32  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:32:40  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:05:28  ram
?RCS: patch32: now uses installation prefix
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  15:56:51  ram
?RCS: patch10: made prompting more explicit (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18
  12:05:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:bin binexp installbin: Prefixit Getfile Oldconfig afs cat test
?MAKE: -pick add $@ %<
?Y:TOP
?S:bin:
?S: This variable holds the name of the directory in which the user wants
?S: to put publicly executable images for the package in question.  It
?S: is most often a local directory such as /usr/local/bin. Programs using
?S: this variable must be prepared to deal with ~name substitution.
?S:.
?S:binexp:
?S: This is the same as the bin variable, but is filename expanded at
?S: configuration time, for use in your makefiles.
?S:.
?S:installbin:
?S: This variable is the same as binexp unless AFS is running in which case
```

```
?S: the user is explicitly prompted for it. This variable should always
?S: be used in your makefiles for maximum portability.
?S:.
?C:BIN:
?C: This symbol holds the path of the bin directory where the package will
?C: be installed. Program must be prepared to deal with ~name substitution.
?C:.
?C:BIN_EXP:
?C: This
 symbol is the filename expanded version of the BIN symbol, for
?C: programs that do not want to deal with that at run-time.
?C:.
?H:#define BIN "$bin" /**/
?H:#define BIN_EXP "$binexp" /**/
?H:.
?D:bin='/usr/local/bin'
: determine where public executables go
echo " "
set dflt bin bin
eval $prefixit
fn=d~
rp='Pathname where the public executables will reside?'
. ./getfile
if $test "X$ansexp" != "X$binexp"; then
 installbin=''
fi
bin="$ans"
binexp="$ansexp"
if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
executables reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installbin" in
 '') dflt=`echo $binexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installbin";;
 esac
 fn=de~
 rp='Where will public executables be installed?'
 . ./getfile
 installbin="$ans"
else
 installbin="$binexp"
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/bin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2005-2007 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_libm_lib_version: Compile cat run rm_try
?MAKE: -pick add $@ %<
?S:d_libm_lib_version:
?S: This variable conditionally defines the LIBM_LIB_VERSION symbol,
?S: which indicates to the C program that math.h defines _LIB_VERSION
?S: being available in libm
?S:.
?C:LIBM_LIB_VERSION:
?C: This symbol, if defined, indicates that libm exports _LIB_VERSION
?C: and that math.h defines the enum to manipulate it.
?C:.
?H:#$d_libm_lib_version LIBM_LIB_VERSION  /**/
?H:.
?T:foo
?F:!try
: check to see if math.h defines _LIB_VERSION
d_libm_lib_version="$undef"
echo " "
echo "Checking to see if your libm supports _LIB_VERSION..." >&4
$cat >try.c <<EOCP
#include <unistd.h>
#include <math.h>
int main (int argc, char *argv[])
{
    printf ("%d\n", _LIB_VERSION);
   return (0);
   } /* main */
EOCP
set try
if eval $compile; then
   foo=`$run ./try`
   echo "Yes, it does ($foo)" >&4
   d_libm_lib_version="$define"
else
   echo "No, it does not (probably harmless)" >&4
   fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_libm_lib_version.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: mansrc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: mansrc.U,v $
?RCS: Revision 3.0.1.9  1997/02/28  16:12:03  ram
?RCS: patch61: don't ask for AFS when they choose to not install pages
?RCS:
?RCS: Revision 3.0.1.8  1995/09/25  09:16:58  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.7  1995/02/15  14:15:31  ram
?RCS: patch51: was mistakenly duplicating /usr/local/man/man1 (ADO)
?RCS: patch51: added /opt/man/man1 to the lookpath (ADO)
?RCS:
?RCS: Revision
 3.0.1.6  1995/01/30  14:39:34  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:32:25  ram
?RCS: patch45: can now use Loc variables since path stripping is deferred
?RCS:
?RCS: Revision 3.0.1.4  1994/08/29  16:30:38  ram
?RCS: patch32: now uses installation prefix for default setting
?RCS:
?RCS: Revision 3.0.1.3  1994/05/06  15:11:10  ram
?RCS: patch23: added lint hint, assuring that nroff is used
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:14:39  ram
?RCS: patch16: now uses _nroff in case user asked for portability
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:09:31  ram
?RCS: patch10: allows for L1 man page extension (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:mansrc mansrcexp manext installmansrc: afs cat nroff Loc Oldconfig \
 sysman spackage test Getfile Prefixit prefixexp Prefixup
?MAKE: -pick add $@ %<
?Y:TOP
?S:mansrc:
?S: This variable
 contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?S:mansrcexp:
?S: This variable is the same as the mansrc variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?S:installmansrc:
?S: This variable is really the same as mansrcexp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: mansrcexp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:manext:
?S: This variable contains the extension that the manual page should
?S: have: one of 'n', 'l', or '1'.  The Makefile must supply the '.'.
?S: See mansrc.
?S:.
?T:lookpath
: determine where manual pages go
set mansrc mansrc none
eval $prefixit
$cat <<EOM

$spackage has manual
 pages available in source form.
EOM
case "$nroff" in
nroff)
 echo "However, you don't have nroff, so they're probably useless to you."
 case "$mansrc" in
 ") mansrc="none";;
 esac;;
esac
echo "If you don't want the manual sources installed, answer 'none'."
case "$mansrc" in
")
 lookpath="$prefixexp/share/man/man1 $prefixexp/man/man1"
 lookpath="$lookpath $prefixexp/man/u_man/man1 $prefixexp/man/l_man/man1"
 lookpath="$lookpath /usr/local/man/man1 /opt/man/man1 /usr/man/manl"
```

```
 lookpath="$lookpath /usr/share/man/man1 /usr/local/share/man/man1"
 lookpath="$lookpath /usr/man/local/man1 /usr/man/l_man/man1"
 lookpath="$lookpath /usr/local/man/u_man/man1 /usr/local/man/l_man/man1"
 lookpath="$lookpath /usr/man/man.L"
 mansrc=`./loc . $prefixexp/man/man1 $lookpath`
 if $test -d "$mansrc"; then
  dflt="$mansrc"
 else
  dflt="$sysman"
 fi
 set dflt
 eval $prefixup
 ;;
' ') dflt=none;;
*)  dflt="$mansrc"
 ;;
esac
echo " "
fn=dn~
rp='Where do the manual pages (source) go?'
. ./getfile
if test
 "X$mansrcexp" != "X$ansexp"; then
 installmansrc="
fi
mansrc="$ans"
mansrcexp="$ansexp"
case "$mansrc" in
") mansrc=' '
 installmansrc=";;
esac
if $afs && $test "$mansrc"; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
manual pages reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installmansrc" in
 ") dflt=`echo $mansrcexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installmansrc";;
 esac
 fn=de~
 rp='Where will man pages be installed?'
 . ./getfile
 installmansrc="$ans"
else
```

```
 installmansrc="$mansrcexp"
fi

case "$mansrc" in
' ') manext='0';;
*l) manext=l;;
*n) manext=n;;
*o) manext=l;;
*p) manext=n;;
*C) manext=C;;
*L) manext=L;;
*L1) manext=L1;;
*) manext=1;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/mansrc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setsid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setsid.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:06:49  ram
?RCS: patch16: created
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setsid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setsid:
?S: This variable conditionally defines HAS_SETSID if setsid() is
?S: available to set the process group ID.
?S:.
?C:HAS_SETSID:
?C: This symbol, if defined, indicates that the setsid routine is
?C: available
 to set the process group ID.
?C:.
```

```
?H:#$d_setsid HAS_SETSID /**/
?H:.
?LINT:set d_setsid
: see if setsid exists
set setsid d_setsid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setsid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2006-2007, H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_snprintf_l d_vsnprintf_l : Inlibc d_snprintf d_vsnprintf
?MAKE: -pick add $@ %<
?S:d_snprintf_l:
?S: This variable conditionally defines the HAS_SNPRINTF_L symbol, which
?S: indicates to the C program that the snprintf_l () library function
?S: is available.
?S:.
?S:d_vsnprintf_l:
?S: This variable conditionally defines the HAS_VSNPRINTF_L symbol, which
?S: indicates to the C program that the vsnprintf_l () library function
?S: is available.
?S:.
?C:HAS_SNPRINTF_L:
?C: This symbol, if defined, indicates that the snprintf_l () library
?C: function
 is available for use.
?C:.
?C:HAS_VSNPRINTF_L:
?C: This symbol, if defined, indicates that the vsnprintf_l () library
?C: function is available for use.
?C:.
?H:#$d_snprintf_l HAS_SNPRINTF_L /**/
?H:#$d_vsnprintf_l HAS_VSNPRINTF_L /**/
?H:.
: see if snprintf_l exists
set snprintf_l d_snprintf_l
eval $inlibc
```

```
: see if vsnprintf_l exists
set vsnprintf_l d_vsnprintf_l
eval $inlibc

case "$d_snprintf-$d_vsnprintf-$d_snprintf_l-$d_vsnprintf_l" in
"$define-$define-$define-$define")
   ;;
*) echo "(These require the basic snprintf and vsnprintf to also be available, which they aren't"
 d_snprintf_l="$undef"
 d_vsnprintf_l="$undef"
   ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_snprintf_l.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_NeWS.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_NeWS.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_news d_news0 d_newshome d_textcan: test rm Myread Getfile
?MAKE: -pick add $@ %<
?S:d_news:
?S: Set if running NeWS 1.1
?S:.
?S:d_news0:
?S: Set if running NeWS 1.0
?S:.
?S:d_newshome:
?S: Path to the top directory of the NeWS structure.
?S:.
?S:d_textcan:
?S: Path to where the textcan.ps stuff is...
?S:.
?C:HAS_NEWS1_1 (NEWS1_1):
?C: This
```

```
 symbol defined if running NeWS 1.1.
?C:.
?C:HAS_NEWS1_0 (NEWS1_0):
?C: This symbol defined if running NeWS 1.0.
?C:.
?C:TEXTCAN:
?C: Tells path to where the textcan.ps stuff is...
?C:.
?H:#$d_news HAS_NEWS1_1     /**/
?H:#$d_news0 HAS_NEWS1_0     /**/
?H:#define TEXTCAN $d_textcan /**/
?H:.
?INIT:: default path for NeWS
?INIT:d_newshome="/usr/NeWS"
?INIT:
: Check to see what version of NeWS is being run?
cd ..
echo " "
echo "Now for the interesting stuff... Lets see what kind of NeWS"
echo "they grow round here...."
echo " "
dflt='y'
if $test -d $d_newshome; then
 d_newshome=`(cd $d_newshome ; /bin/pwd)`
 echo "Ah...found myself a NeWS in $d_newshome..."
 dflt='y'
 rp="Is this the NeWS you want your children to grow up with?"
 . UU/myread
fi
while $test $ans = "n"; do
dflt=$d_newshome
fn=d
rp="Path to NeWS you want:"
. UU/getfile
d_newshome=$ans

echo " "
if $test ! -d $d_newshome/lib; then
 echo "ARG!  No lib directory in $d_newshome!!!"
 : heavy medicine.  I wonder what the disease
 is...
 $rm -f kit*isdone
 $rm -rf UU
 : bye bye
 set -t; echo "Sorry... no NeWS is bad news..."
fi

if $test -r $d_newshome/lib/NeWS/colors.ps ; then
```

```
 echo 'Ahh... your running NeWS 1.1!  Boy... that makes stuff easy....'
 echo " "
 d_news="$define"
 d_news0="$undef"
 if $test -r $d_newshome/lib/NeWS/textcan.ps; then
  d_textcan=$d_newshome/lib/NeWS
  echo "The textcan.ps stuff seems to be in : $d_textcan"
 else
  d_textcan=$d_newshome/clientsrc/client/nterm
  if $test ! -r $d_textcan/textcan.ps; then
   d_news="$undef"
   d_news0="$define"
   echo 'Hmm... must have been fooled... gotta be NeWS 1.1 beta!'
  else
   echo "The textcan.ps stuff seems to be in : $d_textcan"
  fi
 fi
else
 echo 'snif... snif... I smell the dilapidated smell of NeWS 1.0..'
 echo 'Some things will not work under NeWS 1.0...'
 d_news="$undef"
 d_news0="$define"
fi
cd UU
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_NeWS.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: ptrsize.U,v 3.0.1.1 1994/10/29 16:28:19 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: ptrsize.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:28:19  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:37  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:ptrsize: cat rm_try Myread Compile run use64bitall i_stdlib d_quad
```

```
?MAKE: -pick add $@ %<
?S:ptrsize:
?S: This variable contains the value of the PTRSIZE symbol, which
?S: indicates to the C program how many bytes there are in a pointer.
?S:.
?C:PTRSIZE:
?C: This
 symbol contains the size of a pointer, so that the C preprocessor
?C: can make decisions based on it.  It will be sizeof(void *) if
?C: the compiler supports (void *); otherwise it will be
?C: sizeof(char *).
?C:.
?H:#define PTRSIZE $ptrsize  /**/
?H:.
?F:!try
?LINT:extern use64bitint
: check for length of pointer
echo " "
case "$ptrsize" in
")
 echo "Checking to see how big your pointers are..." >&4
 $cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
{
   printf("%d\n", (int)sizeof(void *));
   exit(0);
}
EOCP
 set try
 if eval $compile_ok; then
  ptrsize=`$run ./try`
  echo "Your pointers are $ptrsize bytes long."
 else
  dflt='4'
  echo "(I can't seem to compile the test program.  Guessing...)" >&4
  rp="What is the size of a pointer (in bytes)?"
  . ./myread
  ptrsize="$ans"
 fi
 ;;
esac
$rm_try
case "$use64bitall" in
```

```
"$define"|true|[yY]*)
 case "$ptrsize" in
 4) cat <<EOM >&4

*** You
 have chosen a maximally 64-bit build,
*** but your pointers are only 4 bytes wide.
*** Please rerun Configure without -Duse64bitall.
EOM
  case "$d_quad" in
  define)
   cat <<EOM >&4
*** Since you have quads, you could possibly try with -Duse64bitint.
EOM
   ;;
  esac
  cat <<EOM >&4
*** Cannot continue, aborting.

EOM

  exit 1
  ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/ptrsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_nextafter: Inlibc
?MAKE: -pick add $@ %<
?S:d_nextafter:
?S: This variable conditionally defines HAS_NEXTAFTER if nextafter()
?S: is available to return the next machine representable double from
?S: x in direction y.
?S:.
?C:HAS_NEXTAFTER:
?C: This symbol, if defined, indicates that the nextafter routine is
?C: available to return the next machine representable double from
?C: x in direction y.
?C:.
?H:#$d_nextafter HAS_NEXTAFTER  /**/
```

```
?H:.
?LINT:set d_nextafter
: see if nextafter exists
set nextafter d_nextafter
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_nextafter.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_shmdt.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_shmdt.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_shmdt: Inlibc
?MAKE: -pick add $@ %<
?S:d_shmdt:
?S: This variable conditionally defines the HAS_SHMDT symbol, which
?S: indicates to the C program that the shmdt() routine is available.
?S:.
?C:HAS_SHMDT:
?C: This symbol, if defined, indicates that the shmdt() routine is
?C: available to detach a shared memory segment from the process
 space.
?C:.
?H:#$d_shmdt HAS_SHMDT  /**/
?H:.
?LINT:set d_shmdt
: see if shmdt exists
set shmdt d_shmdt
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_shmdt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: fpostype.U,v $
?RCS: Revision 3.0.1.2  1994/08/29  16:20:52  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:59:59  ram
?RCS: patch30: created
?RCS:
?MAKE:fpostype: Myread Typedef
?MAKE: -pick add $@ %<
?S:fpostype:
?S: This variable defines Fpos_t to be something like fpost_t, long,
?S: uint, or whatever type is used to declare file positions in libc.
?S:.
?C:Fpos_t:
?C: This symbol holds the type used to declare file positions
 in libc.
?C: It can be fpos_t, long, uint, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Fpos_t $fpostype  /* File position type */
?H:.
: see what type file positions are declared as in the library
set fpos_t fpostype long stdio.h sys/types.h
eval $typedef
echo " "
dflt="$fpostype"
rp="What is the type for file position used by fsetpos()?"
. ./myread
fpostype="$ans"
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/fpostype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
```

```
?MAKE:d_llrintl: Inlibc
?MAKE: -pick add $@ %<
?S:d_llrintl:
?S: This variable conditionally defines the HAS_LLRINTL symbol, which
?S: indicates to the C program that the llrintl() routine is available
?S: to return the long long value closest to a long double (according
?S: to the current rounding mode).
?S:.
?C:HAS_LLRINTL:
?C: This symbol, if defined, indicates that the llrintl routine is
?C: available to return the long long value closest to a long double
?C: (according to the current rounding mode).
?C:.
?H:#$d_llrintl HAS_LLRINTL  /**/
?H:.
?LINT:set d_llrintl
: see if llrintl exists
set llrintl d_llrintl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_llrintl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_recvmsg: Inlibc
?MAKE: -pick add $@ %<
?S:d_recvmsg:
?S: This variable conditionally defines the HAS_RECVMSG symbol, which
?S: indicates to the C program that the recvmsg() routine is available.
?S:.
?C:HAS_RECVMSG:
?C: This symbol, if defined, indicates that the recvmsg routine is
?C: available to send structured socket messages.
?C:.
?H:#$d_recvmsg HAS_RECVMSG  /**/
?H:.
?LINT:set d_recvmsg
: see if recvmsg exists
set recvmsg d_recvmsg
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_recvmsg.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Chk_whoami.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Chk_whoami.U,v $
?RCS: Revision 3.0  1993/08/18  12:04:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit makes sure we don't try to include whoami.h if uname() exists.
?X:
?MAKE:Chk_whoami: d_uname i_whoami
?MAKE: -pick add $@ %<
?LINT:change i_whoami
: weed out incompatibilities
case "$d_uname" in
 "$define") i_whoami="$undef" ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Chk_whoami.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethostbyname_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_gethostbyname_r gethostbyname_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_gethostbyname_r:
```

```
?S: This variable conditionally defines the HAS_GETHOSTBYNAME_R symbol,
?S: which indicates to the C program that the gethostbyname_r()
?S: routine is available.
?S:.
?S:gethostbyname_r_proto:
?S: This variable encodes the prototype of gethostbyname_r.
?S: It is zero if d_gethostbyname_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gethostbyname_r
?S: is defined.
?S:.
?C:HAS_GETHOSTBYNAME_R:
?C: This symbol, if defined, indicates
 that the gethostbyname_r routine
?C: is available to gethostbyname re-entrantly.
?C:.
?C:GETHOSTBYNAME_R_PROTO:
?C: This symbol encodes the prototype of gethostbyname_r.
?C: It is zero if d_gethostbyname_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gethostbyname_r
?C: is defined.
?C:.
?H:#$d_gethostbyname_r HAS_GETHOSTBYNAME_R /**/
?H:#define GETHOSTBYNAME_R_PROTO $gethostbyname_r_proto /**/
?H:.
?T:try hdrs d_gethostbyname_r_proto
: see if gethostbyname_r exists
set gethostbyname_r d_gethostbyname_r
eval $inlibc
case "$d_gethostbyname_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_gethostbyname_r_proto:$usethreads" in
 ":define") d_gethostbyname_r_proto=define
  set d_gethostbyname_r_proto gethostbyname_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_gethostbyname_r_proto" in
 define)
 case "$gethostbyname_r_proto" in
 "|0) try='int gethostbyname_r(const char*, struct hostent*, char*, size_t, struct
 hostent**, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyname_r_proto=I_CSBWRE ;;
 esac
 case "$gethostbyname_r_proto" in
 "|0) try='struct hostent* gethostbyname_r(const char*, struct hostent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyname_r_proto=S_CSBIE ;;
 esac
```

```
 case "$gethostbyname_r_proto" in
 "|0) try='int gethostbyname_r(const char*, struct hostent*, struct hostent_data*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyname_r_proto=I_CSD ;;
 esac
 case "$gethostbyname_r_proto" in
 "|0) d_gethostbyname_r=undef
  gethostbyname_r_proto=0
  echo "Disabling gethostbyname_r, cannot determine prototype." >&4 ;;
 * ) case "$gethostbyname_r_proto" in
  REENTRANT_PROTO*) ;;
  *) gethostbyname_r_proto="REENTRANT_PROTO_$gethostbyname_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "gethostbyname_r has no prototype, not using it." >&4 ;;
  esac
  d_gethostbyname_r=undef
  gethostbyname_r_proto=0
  ;;
 esac
 ;;
*) gethostbyname_r_proto=0
 ;;
esac
```

Found
 in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_gethostbyname_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_shmat.U,v $
?RCS: Revision 3.0.1.3  1995/07/25  14:04:23  ram
?RCS: patch56: use findhdr to find <sys/shm.h>, to get the right one (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:18:56  ram
```

```
?RCS: patch27: added new symbol HAS_SHMAT_PROTOTYPE (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:54:18  ram
?RCS: patch23: new Shmat_t symbol to declare return type of shmat()
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:18  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_shmat shmattype
 d_shmatprototype: Inlibc cat +cc +ccflags \
 rm cppstdin cppflags cppminus Findhdr Setvar contains
?MAKE: -pick add $@ %<
?S:d_shmat:
?S: This variable conditionally defines the HAS_SHMAT symbol, which
?S: indicates to the C program that the shmat() routine is available.
?S:.
?S:shmattype:
?S: This symbol contains the type of pointer returned by shmat().
?S: It can be 'void *' or 'char *'.
?S:.
?S:d_shmatprototype:
?S: This variable conditionally defines the HAS_SHMAT_PROTOTYPE
?S: symbol, which indicates that sys/shm.h has a prototype for
?S: shmat.
?S:.
?C:HAS_SHMAT:
?C: This symbol, if defined, indicates that the shmat() routine is
?C: available to attach a shared memory segment to the process space.
?C:.
?C:Shmat_t:
?C: This symbol holds the return type of the shmat() system call.
?C: Usually set to 'void *' or 'char *'.
?C:.
?C:HAS_SHMAT_PROTOTYPE:
?C: This symbol, if defined, indicates that the sys/shm.h includes
?C: a prototype for shmat().  Otherwise, it is up to the program
 to
?C: guess one.  Shmat_t shmat _((int, Shmat_t, int)) is a good guess,
?C: but not always right so it should be emitted by the program only
?C: when HAS_SHMAT_PROTOTYPE is not defined to avoid conflicting defs.
?C:.
?H:#$d_shmat HAS_SHMAT  /**/
?H:#define Shmat_t $shmattype /**/
?H:#$d_shmatprototype HAS_SHMAT_PROTOTYPE /**/
?H:.
?LINT:set d_shmat d_shmatprototype
?T:xxx
: see if shmat exists
```

```
set shmat d_shmat
eval $inlibc
: see what shmat returns
case "$d_shmat" in
"$define")
 $cat >shmat.c <<'END'
#include <sys/shm.h>
void *shmat();
END
 if $cc $ccflags -c shmat.c >/dev/null 2>&1; then
  shmattype='void *'
 else
  shmattype='char *'
 fi
 echo "and it returns ($shmattype)." >&4
 : see if a prototype for shmat is available
 xxx=`./findhdr sys/shm.h`
 $cppstdin $cppflags $cppminus < $xxx > shmat.c 2>/dev/null
 if $contains 'shmat.*(' shmat.c >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 $rm -f shmat.[co]
 ;;
*)
 val="$undef"
 ;;
esac
set d_shmatprototype
eval $setvar
```

Found
 in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_shmat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_time.U,v 3.0 1993/08/18 12:08:45 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
```

```
?RCS: $Log: i_time.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit finds which "time" include to use. If 'timezone' is used by the
?X: program, we also try to find which header should be included. Eventually,
?X: we look for <sys/select.h> if I_SYSSELECT is used, to get struct timeval.
?X:
?MAKE:i_time i_systime i_systimek timeincl d_tm_tm_zone d_tm_tm_gmtoff: \
 Compile cat \
 contains rm_try echo n
 c +i_sysselct Findhdr Hasfield i_stdlib
?MAKE: -pick add $@ %<
?S:i_time:
?S: This variable unconditionally defines I_TIME, which indicates
?S: to the C program that it should include <time.h>.
?S:.
?S:i_systime:
?S: This variable conditionally defines I_SYS_TIME, which indicates
?S: to the C program that it should include <sys/time.h>.
?S:.
?S:i_systimek:
?S: This variable conditionally defines I_SYS_TIME_KERNEL, which
?S: indicates to the C program that it should include <sys/time.h>
?S: with KERNEL defined.
?S:.
?S:timeincl:
?S: This variable holds the full path of the included time header(s).
?S:.
?S:d_tm_tm_zone:
?S: This variable conditionally defines HAS_TM_TM_ZONE, which indicates
?S: to the C program that the struct tm has the tm_zone field.
?S:.
?S:d_tm_tm_gmtoff:
?S: This variable conditionally defines HAS_TM_TM_GMTOFF, which indicates
?S: to the C program that the struct tm has the tm_gmtoff field.
?S:.
?C:I_TIME (USE_TIME_H):
?C: This symbol is always defined, and indicates
 to the C program that
?C: it should include <time.h>.
?C:.
?C:I_SYS_TIME (I_SYSTIME USE_SYS_TIME_H NO_TIME_WITH_SYS_TIME):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/time.h>.
?C:.
?C:I_SYS_TIME_KERNEL (I_SYSTIMEKERNEL):
```

```
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/time.h> with KERNEL defined.
?C:.
?C:HAS_TM_TM_ZONE:
?C: This symbol, if defined, indicates to the C program that
?C: the struct tm has a tm_zone field.
?C:.
?C:HAS_TM_TM_GMTOFF:
?C: This symbol, if defined, indicates to the C program that
?C: the struct tm has a tm_gmtoff field.
?C:.
?H:#$i_time I_TIME  /**/
?H:#$i_systime I_SYS_TIME  /**/
?H:#$i_systimek I_SYS_TIME_KERNEL  /**/
?H:#$d_tm_tm_zone HAS_TM_TM_ZONE  /**/
?H:#$d_tm_tm_gmtoff HAS_TM_TM_GMTOFF  /**/
?H:.
?W::timezone
?T:xselect flags sysselect s_timeval s_timezone
?LINT:change i_sysselct
?LINT:set d_tm_tm_zone
?LINT:set d_tm_tm_gmtoff
: see if we should include sys/time.h
echo
 " "
i_time='define'
if test "X$timeincl" = X; then
 echo "Testing to see if we should include <sys/time.h>." >&4
 $echo $n "I'm now running the test program...$c"
 $cat >try.c <<EOCP
#include <sys/types.h>
#include <time.h>
#ifdef I_SYSTIME
#ifdef SYSTIMEKERNEL
#define KERNEL
#endif
#include <sys/time.h>
#endif
#ifdef I_SYSSELECT
#include <sys/select.h>
#endif
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
{
 struct tm foo;
```

```
#ifdef S_TIMEVAL
 struct timeval bar;
#endif
#ifdef S_TIMEZONE
 struct timezone tzp;
#endif
 if (foo.tm_sec == foo.tm_sec)
  exit(0);
#ifdef S_TIMEVAL
 if (bar.tv_sec == bar.tv_sec)
  exit(0);
#endif
 exit(1);
}
EOCP
 flags=''
@if I_SYSSELECT
 if $contains 'timeval.*{' `./findhdr sys/select.h` >/dev/null 2>&1; then
  xselect='-DI_SYSSELECT'
 else
  xselect=''
 fi
@end
@if timezone
 for s_timezone in '-DS_TIMEZONE' ''; do
@else
 s_timezone=''
@end
?X: Every package is given a try with 'struct timeval'
@if I_SYSSELECT
 for sysselect in $xselect
 ''; do
@else
 sysselect=''
@end
 for s_timeval in '-DS_TIMEVAL' ''; do
 for i_systimek in '' '-DSYSTIMEKERNEL'; do
 for i_systime in '-DI_SYSTIME' ''; do
  case "$flags" in
  '') $echo $n ".$c"
   set try $i_systime $i_systimek $sysselect $s_timeval $s_timezone
   if eval $compile; then
    set X $i_systime $i_systimek $sysselect $s_timeval
    shift
    flags="$*"
    echo ' '
    $echo $n "Succeeded with $flags$c"
   fi
```

```
  ;;
 esac
done
done
done
@if I_SYSSELECT
done
@end
@if timezone
done
@end
timeincl=''
echo " "
case "$flags" in
*SYSTIMEKERNEL*) i_systimek="$define"
 timeincl=`./findhdr sys/time.h`
 echo "We'll include <sys/time.h> with KERNEL defined." >&4;;
*) i_systimek="$undef";;
esac
case "$flags" in
*I_SYSTIME*) i_systime="$define"
 timeincl=`./findhdr sys/time.h`" $timeincl"
 echo "We'll include <sys/time.h>." >&4;;
*) i_systime="$undef";;
esac
@if I_SYSSELECT
case "$flags" in
*I_SYSSELECT*) i_sysselct="$define"
 timeincl=`./findhdr sys/select.h`"
$timeincl"
 echo "We'll also include <sys/select.h> to get struct timeval." >&4;;
*) case "$i_sysselct" in
 '') i_sysselct="$undef";;
 esac
esac
@end
$rm_try
fi
: see if struct tm knows about tm_zone
case "$i_systime$i_time" in
*$define*)
	echo " "
	echo "Checking to see if your struct tm has tm_zone field..." >&4
	set d_tm_tm_zone tm tm_zone $i_systime sys/time.h $i_time time.h
	eval $hasfield
	;;
*)	val="$undef"
	set d_tm_tm_zone
```

```
	eval $setvar
	;;
esac
case "$d_tm_tm_zone" in
"$define")	echo "Yes, it does."	;;
*)		echo "No, it doesn't." ;;
esac
: see if struct tm knows about tm_gmtoff
case "$i_systime$i_time" in
*$define*)
	echo " "
	echo "Checking to see if your struct tm has tm_gmtoff field..." >&4
	set d_tm_tm_gmtoff tm tm_gmtoff $i_systime sys/time.h $i_time time.h
	eval $hasfield
	;;
*)	val="$undef"
	set d_tm_tm_gmtoff
	eval $setvar

	;;
esac
case "$d_tm_tm_gmtoff" in
"$define")	echo "Yes, it does."	;;
*)		echo "No, it doesn't." ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/i_time.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_rint: Inlibc
?MAKE: -pick add $@ %<
?S:d_rint:
?S: This variable conditionally defines the HAS_RINT symbol, which
?S: indicates to the C program that the rint() routine is available.
?S:.
?C:HAS_RINT:
?C: This symbol, if defined, indicates that the rint routine is
?C: available to return the nearest integral value to x as double
?C: using the current rounding mode.
?C:.
?H:#$d_rint HAS_RINT	/**/
?H:.
?LINT:set d_rint
```

```
: see if rint exists
set rint d_rint
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_rint.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: getopt.C,v 3.0.1.1 1994/01/24 13:58:40 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* Original Author: unknown, got this off net.sources
*
* $Log: getopt.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:40  ram
* patch16: created
*
*/
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/lib/C/fake/getopt.C
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_pwd.U,v 3.0.1.2 1995/07/25 14:10:57 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: i_pwd.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:10:57  ram
?RCS: patch56: use setvar so hint file values can override our guesses (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:03:27  ram
```

```
?RCS: patch23: had forgotten cppminus in cppstdin test (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:25  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit checks whether there is a pwd system or not
?X:
?MAKE:i_pwd d_pwquota d_pwage d_pwchange
 d_pwclass d_pwexpire \
 d_pwgecos d_pwpasswd d_pwcomment: \
 contains rm cppstdin cppflags cppminus Inhdr Findhdr Setvar
?MAKE: -pick add $@ %<
?S:i_pwd:
?S: This variable conditionally defines I_PWD, which indicates
?S: to the C program that it should include <pwd.h>.
?S:.
?S:d_pwquota:
?S: This variable conditionally defines PWQUOTA, which indicates
?S: that struct passwd contains pw_quota.
?S:.
?S:d_pwage:
?S: This variable conditionally defines PWAGE, which indicates
?S: that struct passwd contains pw_age.
?S:.
?S:d_pwchange:
?S: This variable conditionally defines PWCHANGE, which indicates
?S: that struct passwd contains pw_change.
?S:.
?S:d_pwclass:
?S: This variable conditionally defines PWCLASS, which indicates
?S: that struct passwd contains pw_class.
?S:.
?S:d_pwexpire:
?S: This variable conditionally defines PWEXPIRE, which indicates
?S: that struct passwd contains pw_expire.
?S:.
?S:d_pwcomment:
?S: This variable conditionally defines PWCOMMENT, which indicates
?S: that
 struct passwd contains pw_comment.
?S:.
?S:d_pwgecos:
?S: This variable conditionally defines PWGECOS, which indicates
?S: that struct passwd contains pw_gecos.
?S:.
?S:d_pwpasswd:
?S: This variable conditionally defines PWPASSWD, which indicates
```

```
?S: that struct passwd contains pw_passwd.
?S:.
?C:I_PWD:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <pwd.h>.
?C:.
?C:PWQUOTA:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_quota.
?C:.
?C:PWAGE:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_age.
?C:.
?C:PWCHANGE:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_change.
?C:.
?C:PWCLASS:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_class.
?C:.
?C:PWEXPIRE:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_expire.
?C:.
?C:PWCOMMENT:
?C: This
 symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_comment.
?C:.
?C:PWGECOS:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_gecos.
?C:.
?C:PWPASSWD:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_passwd.
?C:.
?H:#$i_pwd I_PWD  /**/
?H:#$d_pwquota PWQUOTA /**/
?H:#$d_pwage PWAGE /**/
?H:#$d_pwchange PWCHANGE /**/
?H:#$d_pwclass PWCLASS /**/
?H:#$d_pwexpire PWEXPIRE /**/
?H:#$d_pwcomment PWCOMMENT /**/
?H:#$d_pwgecos PWGECOS /**/
?H:#$d_pwpasswd PWPASSWD /**/
```

```
?H:.
?LINT: set i_pwd d_pwquota d_pwage d_pwchange d_pwclass d_pwexpire d_pwcomment
?LINT: set d_pwgecos d_pwpasswd
?T:xxx
: see if this is a pwd.h system
set pwd.h i_pwd
eval $inhdr

case "$i_pwd" in
$define)
 xxx=`./findhdr pwd.h`
 $cppstdin $cppflags $cppminus < $xxx >$$.h

 if $contains 'pw_quota' $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_pwquota
 eval $setvar

 if $contains 'pw_age'
 $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_pwage
 eval $setvar

 if $contains 'pw_change' $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_pwchange
 eval $setvar

 if $contains 'pw_class' $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_pwclass
 eval $setvar

 if $contains 'pw_expire' $$.h >/dev/null 2>&1; then
  val="$define"
```

```
 else
  val="$undef"
 fi
 set d_pwexpire
 eval $setvar

 if $contains 'pw_comment' $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_pwcomment
 eval $setvar

 if $contains 'pw_gecos' $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_pwgecos
 eval $setvar

 if $contains 'pw_passwd' $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_pwpasswd
 eval $setvar

 $rm -f $$.h
 ;;
*)
 val="$undef";
 set d_pwquota; eval $setvar
 set d_pwage; eval $setvar
 set d_pwchange; eval $setvar
 set d_pwclass; eval $setvar
 set
 d_pwexpire; eval $setvar
 set d_pwcomment; eval $setvar
 set d_pwgecos; eval $setvar
 set d_pwpasswd; eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/modified/i_pwd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Findhdr.U,v 3.0.1.2 1994/10/29 15:53:08 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Thomas Neumann <tom@smart.bo.open.de>
?RCS:
?RCS: $Log: Findhdr.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  15:53:08  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:03:56  ram
?RCS: patch23: cppminus must be after other cppflags, not before
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a findhdr script which
 is used to locate the header
?X: files in $usrinc or other stranger places using cpp capabilities. The
?X: script is given an include file base name, like 'stdio.h' or 'sys/file.h'
?X: and it returns the full path of the include file and a zero status or an
?X: empty string with an error status if the file could not be located.
?X:
?MAKE:Findhdr: grep test tr rm incpth awk cat startsh \
 cppstdin cppminus +cppflags osname
?MAKE: -pick add $@ %<
?LINT:extern cppfilter
?LINT:define fieldn
?S:fieldn:
?S: This variable is used internally by Configure. It contains the position
?S: of the included file name in cpp output. That is to say, when cpp
?S: pre-processes a #include <file> line, it replaces it by a # line which
?S: contains the original position in the input file and the full name of
?S: included file, between "quotes".
?S:.
?V:fieldn
?F:./findhdr !fieldn
?T:cline pos wanted name awkprg usrincdir status testaccess
```

```
: determine filename position in cpp output
echo " "
echo "Computing
 filename position in cpp output for #include directives..." >&4
case "$osname" in
amigaos) fieldn=3 ;;  # Workaround for a bug in abc (pdksh).
esac
case "$fieldn" in
")
case "$osname" in
vos) testaccess=-e ;;
*)   testaccess=-r ;;
esac
echo '#include <stdio.h>' > foo.c
$cat >fieldn <<EOF
$startsh
$cppstdin $cppflags $cppminus <foo.c 2>/dev/null | \
$grep '^[  ]*#.*stdio\.h' | \
while read cline; do
 pos=1
 set \$cline
 while $test \$# -gt 0; do
  if $test $testaccess \`echo \$1 | $tr -d ""\`; then
   echo "\$pos"
   exit 0
  fi
  shift
  pos=\`expr \$pos + 1\`
 done
done
EOF
chmod +x fieldn
fieldn=`./fieldn`
$rm -f foo.c fieldn
;;
esac
case $fieldn in
") pos='???';;
1) pos=first;;
2) pos=second;;
3) pos=third;;
*) pos="${fieldn}th";;
esac
echo "Your cpp writes the filename in the $pos field of the line."

?X: To locate a header file, we cannot simply check for $usrinc/file.h, since
?X: some machine have the headers in weird places and our only hope is that
?X: the C pre-processor
```

```
 will know how to find those headers. Thank you NexT!
: locate header file
$cat >findhdr <<EOF
$startsh
wanted=\$1
name=''
for usrincdir in $incpth
do
 if test -f \$usrincdir/\$wanted; then
  echo "\$usrincdir/\$wanted"
  exit 0
 fi
done
awkprg='{ print \$$fieldn }'
echo "#include <\$wanted>" > foo\$\$.c
$cppstdin $cppminus $cppflags < foo\$\$.c 2>/dev/null | \
$cppfilter $grep "^[  ]*#.*\$wanted" | \
while read cline; do
 name=\`echo \$cline | $awk "\$awkprg" | $tr -d '"'\`
 case "\$name" in
 *[/\\\\]\$wanted) echo "\$name"; exit 1;;
 *[\\\\/]\$wanted) echo "\$name"; exit 1;;
 *) exit 2;;
 esac;
done;
#
# status = 0: grep returned 0 lines, case statement not executed
# status = 1: headerfile found
# status = 2: while loop executed, no headerfile found
#
status=\$?
$rm -f foo\$\$.c;
if test \$status -eq 1; then
 exit 0;
fi
exit 1
EOF
chmod +x findhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Findhdr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strtoul.U,v 3.0.1.1 1997/02/28 15:46:43 ram Exp $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_strtoul.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:46:43  ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_strtoul: Inlibc cat longsize Compile run
?MAKE: -pick add $@ %<
?S:d_strtoul:
?S: This variable conditionally defines the HAS_STRTOUL symbol, which
?S: indicates to the C program that the strtoul() routine is available
?S: to provide conversion of strings to unsigned long.
?S:.
?C:HAS_STRTOUL (STRTOUL):
?C: This
 symbol, if defined, indicates that the strtoul routine is
?C: available to provide conversion of strings to unsigned long.
?C:.
?H:#$d_strtoul HAS_STRTOUL /**/
?H:.
?F:!try
: see if strtoul exists
set strtoul d_strtoul
eval $inlibc

case "$d_strtoul" in
"$define")
 $cat <<EOM
Checking whether your strtoul() works okay...
EOM
 $cat >try.c <<'EOCP'
#include <stdlib.h>
#include <errno.h>
#include <stdio.h>
static int bad = 0;
void check(const char *s, unsigned long eul, int een) {
 unsigned long gul;
 errno = 0;
 gul = strtoul(s, 0, 10);
 if (!((gul == eul) && (errno == een)))
  bad++;
}
```

```
int main() {
 check(" 1", 1L, 0);
 check(" 0", 0L, 0);
EOCP
 case "$longsize" in
 8)
    $cat >>try.c <<'EOCP'
 check("18446744073709551615", 18446744073709551615UL, 0);
 check("18446744073709551616", 18446744073709551615UL, ERANGE);
#if 0 /* strtoul() for /^-/ strings is undefined. */
 check("-1", 18446744073709551615UL, 0);
 check("-18446744073709551614", 2, 0);
 check("-18446744073709551615", 1,
 0);
 check("-18446744073709551616", 18446744073709551615UL, ERANGE);
 check("-18446744073709551617", 18446744073709551615UL, ERANGE);
#endif
EOCP
  ;;
 4)
     $cat >>try.c <<'EOCP'
 check("4294967295", 4294967295UL, 0);
 check("4294967296", 4294967295UL, ERANGE);
#if 0 /* strtoul() for /^-/ strings is undefined. */
 check("-1", 4294967295UL, 0);
 check("-4294967294", 2, 0);
 check("-4294967295", 1, 0);
 check("-4294967296", 4294967295UL, ERANGE);
 check("-4294967297", 4294967295UL, ERANGE);
#endif
EOCP
  ;;
 *)
: Should we write these tests to be more portable by sprintf-ing
: ~0 and then manipulating that char string as input for strtol?
  ;;
 esac
 $cat >>try.c <<'EOCP'
 if (!bad)
  printf("ok\n");
 return 0;
}
EOCP
 set try
 if eval $compile; then
  case "`$run ./try`" in
  ok) echo "Your strtoul() seems to be working okay." ;;
  *) cat <<EOM >&4
```

```
Your strtoul() doesn't seem to be working okay.
EOM
    d_strtoul="$undef"
    ;;
  esac
 else
  echo "(I can't seem to compile the test
 program--assuming it doesn't)"
  d_strtoul="$undef"
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_strtoul.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: instubperl.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:installusrbinperl: installbin cat bin Myread Setvar test Devel
?MAKE: -pick add $@ %<
?LINT:set installusrbinperl
?Y:TOP
?S:installusrbinperl:
?S: This variable tells whether Perl should be installed also as
?S: /usr/bin/perl in addition to
?S: $installbin/perl
?S:.
?C:INSTALL_USR_BIN_PERL:
?C: This symbol, if defined, indicates that Perl is to be installed
?C: also as /usr/bin/perl.
?C:.
?H:#$installusrbinperl INSTALL_USR_BIN_PERL /**/
?H:.
: determine
 whether to install perl also as /usr/bin/perl

echo " "
if $test -d /usr/bin -a "X$installbin" != X/usr/bin; then
```

```
 $cat <<EOM
Many scripts expect perl to be installed as /usr/bin/perl.

If you want to, I can install the perl you are about to compile
as /usr/bin/perl (in addition to $bin/perl).
EOM
 if test -f /usr/bin/perl; then
    $cat <<EOM

However, please note that because you already have a /usr/bin/perl,
overwriting that with a new Perl would very probably cause problems.
Therefore I'm assuming you don't want to do that (unless you insist).

EOM
    case "$installusrbinperl" in
    "$define"|[yY]*) dflt='y';;
    *)   dflt='n';;
    esac
 else
    $cat <<EOM

Since you don't have a /usr/bin/perl I'm assuming creating one is okay.

EOM
    case "$installusrbinperl" in
    "$undef"|[nN]*) dflt='n';;
    *)   dflt='y';;
    esac
 fi
 rp="Do you want to install perl as /usr/bin/perl?"
 . ./myread
 case "$ans" in
 [yY]*) val="$define";;
 *) val="$undef" ;;
 esac
else
 val="$undef"
fi
set
 installusrbinperl
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/instubperl.U
No license file was found, but licenses were detected in source scan.

?RCS: Id

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memchr.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:32  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_memchr: Inlibc
?MAKE: -pick add $@ %<
?S:d_memchr:
?S: This variable conditionally defines the HAS_MEMCHR symbol, which
?S: indicates to the C program that the memchr() routine is available
?S: to scan a block of memory for a character.
?S:.
?C:HAS_MEMCHR:
?C: This symbol, if defined, indicates that the memchr routine is available
?C: to scan a block of memory for a character.
  If undefined, roll your own.
?C:.
?H:#$d_memchr HAS_MEMCHR  /**/
?H:.
?LINT:set d_memchr
: see if memchr exists
set memchr d_memchr
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_memchr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_pwd.U,v $
```

```
?RCS: Revision 3.0.1.2  1995/07/25  14:10:57  ram
?RCS: patch56: use setvar so hint file values can override our guesses (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:03:27  ram
?RCS: patch23: had forgotten cppminus in cppstdin test (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:25  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit checks whether there is a pwd system or not
?X:
?MAKE:i_pwd d_pwquota d_pwage d_pwchange d_pwclass d_pwexpire d_pwcomment:
 \
 contains rm cppstdin cppflags cppminus Inhdr Findhdr Setvar
?MAKE: -pick add $@ %<
?S:i_pwd:
?S: This variable conditionally defines I_PWD, which indicates
?S: to the C program that it should include <pwd.h>.
?S:.
?S:d_pwquota:
?S: This varaible conditionally defines PWQUOTA, which indicates
?S: that struct passwd contains pw_quota.
?S:.
?S:d_pwage:
?S: This varaible conditionally defines PWAGE, which indicates
?S: that struct passwd contains pw_age.
?S:.
?S:d_pwchange:
?S: This varaible conditionally defines PWCHANGE, which indicates
?S: that struct passwd contains pw_change.
?S:.
?S:d_pwclass:
?S: This varaible conditionally defines PWCLASS, which indicates
?S: that struct passwd contains pw_class.
?S:.
?S:d_pwexpire:
?S: This varaible conditionally defines PWEXPIRE, which indicates
?S: that struct passwd contains pw_expire.
?S:.
?S:d_pwcomment:
?S: This varaible conditionally defines PWCOMMENT, which indicates
?S: that struct passwd contains pw_comment.
?S:.
?C:I_PWD:
?C: This symbol,
 if defined, indicates to the C program that it should
?C: include <pwd.h>.
```

```
?C:.
?C:PWQUOTA:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_quota.
?C:.
?C:PWAGE:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_age.
?C:.
?C:PWCHANGE:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_change.
?C:.
?C:PWCLASS:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_class.
?C:.
?C:PWEXPIRE:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_expire.
?C:.
?C:PWCOMMENT:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_comment.
?C:.
?H:#$i_pwd I_PWD  /**/
?H:#$d_pwquota PWQUOTA /**/
?H:#$d_pwage PWAGE /**/
?H:#$d_pwchange PWCHANGE /**/
?H:#$d_pwclass PWCLASS /**/
?H:#$d_pwexpire PWEXPIRE /**/
?H:#$d_pwcomment PWCOMMENT /**/
?H:.
?LINT: set i_pwd d_pwquota
 d_pwage d_pwchange d_pwclass d_pwexpire d_pwcomment
?T:xxx
: see if this is a pwd.h system
set pwd.h i_pwd
eval $inhdr

case "$i_pwd" in
$define)
 xxx=`./findhdr pwd.h`
 $cppstdin $cppflags $cppminus < $xxx >$$.h

 if $contains 'pw_quota' $$.h >/dev/null 2>&1; then
  val="$define"
 else
```

```
 val="$undef"
fi
set d_pwquota
eval $setvar

if $contains 'pw_age' $$.h >/dev/null 2>&1; then
 val="$define"
else
 val="$undef"
fi
set d_pwage
eval $setvar

if $contains 'pw_change' $$.h >/dev/null 2>&1; then
 val="$define"
else
 val="$undef"
fi
set d_pwchange
eval $setvar

if $contains 'pw_class' $$.h >/dev/null 2>&1; then
 val="$define"
else
 val="$undef"
fi
set d_pwclass
eval $setvar

if $contains 'pw_expire' $$.h >/dev/null 2>&1; then
 val="$define"
else
 val="$undef"
fi
set d_pwexpire
eval $setvar

if $contains 'pw_comment' $$.h >/dev/null 2>&1; then
 val="$define"
else
 val="$undef"
fi
set d_pwcomment
eval $setvar

$rm -f $$.h
;;
*)
```

```
 val="$undef";
 set
 d_pwquota; eval $setvar
 set d_pwage; eval $setvar
 set d_pwchange; eval $setvar
 set d_pwclass; eval $setvar
 set d_pwexpire; eval $setvar
 set d_pwcomment; eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_pwd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_closedir.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:31:26  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:11:18  ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:21  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_closedir d_void_closedir: Inlibc i_dirent i_sysdir i_sysndir \
 cc ccflags ldflags libs Setvar rm
?MAKE: -pick
 add $@ %<
?S:d_closedir:
?S: This variable conditionally defines HAS_CLOSEDIR if closedir() is
?S: available.
?S:.
?C:HAS_CLOSEDIR:
?C: This symbol, if defined, indicates that the closedir() routine is
```

```
?C: available.
?C:.
?H:#$d_closedir HAS_CLOSEDIR  /**/
?H:.
?S:d_void_closedir:
?S: This variable conditionally defines VOID_CLOSEDIR if closedir()
?S: does not return a value.
?S:.
?C:VOID_CLOSEDIR:
?C: This symbol, if defined, indicates that the closedir() routine
?C: does not return a value.
?C:.
?H:#$d_void_closedir VOID_CLOSEDIR  /**/
?H:.
?F:!closedir
?LINT:set d_closedir d_void_closedir
: see if closedir exists
set closedir d_closedir
eval $inlibc

@if VOID_CLOSEDIR || d_void_closedir
?X: The following contortions are designed so we can call closedir()
?X: and check whether it returns a value.  The contortions are designed
?X: to portably pick up the correct directory header, for those
?X: systems that support various mutually incompatible directory functions.
?X: This
 is from perl5's perl.h
case "$d_closedir" in
"$define")
 echo " "
 echo "Checking whether closedir() returns a status..." >&4
 cat > closedir.c <<EOM
#$i_dirent I_DIRENT  /**/
#$i_sysdir I_SYS_DIR  /**/
#$i_sysndir I_SYS_NDIR  /**/

#if defined(I_DIRENT)
#include <dirent.h>
#if defined(NeXT) && defined(I_SYS_DIR) /* NeXT needs dirent + sys/dir.h */
#include <sys/dir.h>
#endif
#else
#ifdef I_SYS_NDIR
#include <sys/ndir.h>
#else
#ifdef I_SYS_DIR
#ifdef hp9000s500
#include <ndir.h> /* may be wrong in the future */
```

```
#else
#include <sys/dir.h>
#endif
#endif
#endif
#endif
int main() { return closedir(opendir(".")); }
EOM
 if $cc $ccflags $ldflags -o closedir closedir.c $libs > /dev/null 2>&1; then
  if ./closedir > /dev/null 2>&1 ; then
   echo "Yes, it does."
   val="$undef"
  else
   echo "No, it doesn't."
   val="$define"
  fi
 else
  echo "(I can't seem to compile the test program--assuming it doesn't)"
  val="$define"
 fi
 ;;
*)
 val="$undef";
 ;;
esac
set d_void_closedir
eval $setvar
$rm
 -f closedir*
@end
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_closedir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Instruct.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:02:55  ram
```

```
?RCS: patch61: logname / whoami sequence rewritten to use case
?RCS:
?RCS: Revision 3.0.1.2  1995/02/15  14:11:34  ram
?RCS: patch51: author name now appears at the end of the paragraph (WED)
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:12:05  ram
?RCS: patch45: now documents the & escape to turn -d on at the read prompt
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X:
 This unit spew out the directions that we want everyone to read.  I try to
?X: keep the first "pagefull" much less than a page since they don't know it
?X: isn't going to go shooting off the top of the screen, and we don't want
?X: to panic them yet.
?X:
?MAKE:Instruct: Begin Myread Configdir contains
?MAKE: -pick wipe $@ %<
?T:user needman firsttime
: general instructions
needman=true
firsttime=true
user=`(logname) 2>/dev/null`
case "$user" in
") user=`whoami 2>&1`;;
esac
if $contains "^$user\$" ../.config/instruct >/dev/null 2>&1; then
 firsttime=false
 echo " "
 rp='Would you like to see the instructions?'
 dflt=n
 . ./myread
 case "$ans" in
 [yY]*) ;;
 *) needman=false;;
 esac
fi
if $needman; then
 cat <<EOH

This installation shell script will examine your system and ask you questions
to determine how the <PACKAGENAME> package should be installed. If you get
stuck on a question, you may use a ! shell escape to start a subshell or
execute a command.  Many of the questions will have
 default answers in square
brackets; typing carriage return will give you the default.
```

```
On some of the questions which ask for file or directory names you are allowed
to use the ~name construct to specify the login directory belonging to "name",
even if you don't have a shell which knows about that.  Questions where this is
allowed will be marked "(~name ok)".

EOH
 rp=''
 dflt='Type carriage return to continue'
 . ./myread
 cat <<'EOH'

The prompter used in this script allows you to use shell variables and
backticks in your answers.  You may use $1, $2, etc...  to refer to the words
in the default answer, as if the default line was a set of arguments given to a
script shell.  This means you may also use $* to repeat the whole default line,
so you do not have to re-type everything to add something to the default.

Everytime there is a substitution, you will have to confirm.  If there is an
error (e.g. an unmatched backtick), the default answer will remain unchanged
and you will be prompted
 again.

If you are in a hurry, you may run 'Configure -d'.  This will bypass nearly all
the questions and use the computed defaults (or the previous answers if there
was already a config.sh file). Type 'Configure -h' for a list of options.
You may also start interactively and then answer '& -d' at any prompt to turn
on the non-interactive behaviour for the remainder of the execution.

EOH
 . ./myread
 cat <<EOH

Much effort has been expended to ensure that this shell script will run on any
Unix system.  If despite that it blows up on yours, your best bet is to edit
Configure and run it again.  If you can't run Configure for some reason,
you'll have to generate a config.sh file by hand.  Whatever problems you
have, let me (<MAINTLOC>) know how I blew it.

This installation script affects things in two ways:

1) it may do direct variable substitutions on some of the files included
  in this kit.
2) it builds a config.h file for inclusion in C programs.  You may edit
  any of these
 files as the need arises after running this script.

If you make a mistake on a question, there is no easy way to back up to it
```

```
currently.  The easiest thing to do is to edit config.sh and rerun all the SH
files.  Configure will offer to let you do this before it runs the SH files.

EOH
?X: In case they played with the prompter...
 dflt='Type carriage return to continue'
 . ./myread
 case "$firsttime" in
 true) echo $user >>../.config/instruct;;
 esac
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Instruct.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999-2016 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_PRIfldbl sPRIfldbl d_PRIgldbl d_PRIFUldbl sPRIGUldbl d_PRIEUldbl \
 sPRIgldbl d_PRIeldbl sPRIeldbl sPRIFUldbl d_PRIGUldbl sPRIEUldbl \
 d_SCNfldbl  d_double_style_vax d_double_style_ieee \
 d_double_style_ibm d_double_style_cray d_double_has_subnormals \
 d_double_has_inf d_double_has_nan d_double_has_negative_zero \
 sSCNfldbl doublekind: \
 d_longdbl longdblsize doublesize uselongdouble test echo cat rm_try \
 Setvar Compile run i_stdlib osname gccversion ccflags
?MAKE: -pick add $@ %<
?S:doublekind:
?S: This variable, if defined, encodes the type of a double:
?S:  1 = IEEE 754 32-bit little endian,
?S:  2 = IEEE 754 32-bit big endian,
?S:  3 = IEEE 754 64-bit little endian,
?S:  4 = IEEE
 754 64-bit big endian,
?S:  5 = IEEE 754 128-bit little endian,
?S:  6 = IEEE 754 128-bit big endian,
?S:  7 = IEEE 754 64-bit mixed endian le-be,
?S:  8 = IEEE 754 64-bit mixed endian be-le,
?S:  9 = VAX 32bit little endian F float format
?S: 10 = VAX 64bit little endian D float format
?S: 11 = VAX 64bit little endian G float format
?S: 12 = IBM 32bit format
```

```
?S: 13 = IBM 64bit format
?S: 14 = Cray 64bit format
?S: -1 = unknown format.
?S:.
?S:d_PRIfldbl:
?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates that stdio has a symbol to print long doubles.
?S:.
?S:d_PRIgldbl:
?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates that stdio has a symbol to print long doubles.
?S:.
?S:d_PRIeldbl:
?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates that stdio has a symbol to print long doubles.
?S:.
?S:d_PRIFUldbl:
?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates
 that stdio has a symbol to print long doubles.
?S: The 'U' in the name is to separate this from d_PRIfldbl so that even
?S: case-blind systems can see the difference.
?S:.
?S:d_PRIGUldbl:
?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates that stdio has a symbol to print long doubles.
?S: The 'U' in the name is to separate this from d_PRIgldbl so that even
?S: case-blind systems can see the difference.
?S:.
?S:d_PRIEUldbl:
?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates that stdio has a symbol to print long doubles.
?S: The 'U' in the name is to separate this from d_PRIeldbl so that even
?S: case-blind systems can see the difference.
?S:.
?S:d_SCNfldbl:
?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates that stdio has a symbol to scan long doubles.
?S:.
?S:sPRIfldbl:
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'f') for
 output.
?S:.
?S:sPRIgldbl:
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'g') for output.
?S:.
```

```
?S:sPRIeldbl:
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'e') for output.
?S:.
?S:sPRIFUldbl:
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'F') for output.
?S: The 'U' in the name is to separate this from sPRIfldbl so that even
?S: case-blind systems can see the difference.
?S:.
?S:sPRIGUldbl:
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'G') for output.
?S: The 'U' in the name is to separate this from sPRIgldbl so that even
?S: case-blind systems can see the difference.
?S:.
?S:sPRIEUldbl:
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'E') for output.
?S: The 'U' in the name is to separate this from sPRIeldbl so that even
?S: case-blind
 systems can see the difference.
?S:.
?S:sSCNfldbl:
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'f') for input.
?S:.
?S:d_double_has_inf:
?S: This variable conditionally defines the symbol DOUBLE_HAS_INF
?S: which indicates that the double type has an infinity.
?S:.
?S:d_double_has_nan:
?S: This variable conditionally defines the symbol DOUBLE_HAS_NAN
?S: which indicates that the double type has a not-a-number.
?S:.
?S:d_double_has_negative_zero:
?S: This variable conditionally defines the symbol DOUBLE_HAS_NEGATIVE_ZERO
?S: which indicates that the double type has a negative zero.
?S:.
?S:d_double_has_subnormals:
?S: This variable conditionally defines the symbol DOUBLE_HAS_SUBNORMALS
?S: which indicates that the double type has subnormals (denormals).
?S:.
?S:d_double_style_cray:
?S: This variable conditionally defines the symbol DOUBLE_STYLE_CRAY
?S: which indicates that the double is the 64-bit CRAY mainframe
 format.
?S:.
```

```
?S:d_double_style_ibm:
?S: This variable conditionally defines the symbol DOUBLE_STYLE_IBM,
?S: which indicates that the double is the 64-bit IBM mainframe format.
?S:.
?S:d_double_style_ieee:
?S: This variable conditionally defines the symbol DOUBLE_STYLE_IEEE,
?S: which indicates that the double is the 64-bit IEEE 754.
?S:.
?S:d_double_style_vax:
?S: This variable conditionally defines the symbol DOUBLE_STYLE_VAX,
?S: which indicates that the double is the 64-bit VAX format D or G.
?S:.
?C:PERL_PRIfldbl:
?C: This symbol, if defined, contains the string used by stdio to
?C: format long doubles (format 'f') for output.
?C:.
?C:PERL_PRIgldbl:
?C: This symbol, if defined, contains the string used by stdio to
?C: format long doubles (format 'g') for output.
?C:.
?C:PERL_PRIeldbl:
?C: This symbol, if defined, contains the string used by stdio to
?C: format long doubles (format 'e') for output.
?C:.
?C:PERL_PRIFldbl:
?C: This symbol, if defined, contains the string used by stdio
 to
?C: format long doubles (format 'f') for output.
?C:.
?C:PERL_PRIGldbl:
?C: This symbol, if defined, contains the string used by stdio to
?C: format long doubles (format 'g') for output.
?C:.
?C:PERL_PRIEldbl:
?C: This symbol, if defined, contains the string used by stdio to
?C: format long doubles (format 'e') for output.
?C:.
?C:PERL_SCNfldbl:
?C: This symbol, if defined, contains the string used by stdio to
?C: format long doubles (format 'f') for input.
?C:.
?C:DOUBLEKIND:
?C: DOUBLEKIND will be one of
?C: DOUBLE_IS_IEEE_754_32_BIT_LITTLE_ENDIAN
?C: DOUBLE_IS_IEEE_754_32_BIT_BIG_ENDIAN
?C: DOUBLE_IS_IEEE_754_64_BIT_LITTLE_ENDIAN
?C: DOUBLE_IS_IEEE_754_64_BIT_BIG_ENDIAN
?C: DOUBLE_IS_IEEE_754_128_BIT_LITTLE_ENDIAN
```

```
?C: DOUBLE_IS_IEEE_754_128_BIT_BIG_ENDIAN
?C: DOUBLE_IS_IEEE_754_64_BIT_MIXED_ENDIAN_LE_BE
?C: DOUBLE_IS_IEEE_754_64_BIT_MIXED_ENDIAN_BE_LE
?C: DOUBLE_IS_VAX_F_FLOAT
?C: DOUBLE_IS_VAX_D_FLOAT
?C: DOUBLE_IS_VAX_G_FLOAT
?C: DOUBLE_IS_IBM_SINGLE_32_BIT
?C: DOUBLE_IS_IBM_DOUBLE_64_BIT
?C: DOUBLE_IS_CRAY_SINGLE_64_BIT
?C: DOUBLE_IS_UNKNOWN_FORMAT
?C:.
?C:DOUBLE_HAS_INF:
?C: This
 symbol, if defined, indicates that the double has
?C: the infinity.
?C:.
?C:DOUBLE_HAS_NAN:
?C: This symbol, if defined, indicates that the double has
?C: the not-a-number.
?C:.
?C:DOUBLE_HAS_NEGATIVE_ZERO:
?C: This symbol, if defined, indicates that the double has
?C: the negative_zero.
?C:.
?C:DOUBLE_HAS_SUBNORMALS:
?C: This symbol, if defined, indicates that the double has
?C: the subnormals (denormals).
?C:.
?C:DOUBLE_STYLE_CRAY:
?C: This symbol, if defined, indicates that the double is
?C: the 64-bit CRAY mainframe format.
?C:.
?C:DOUBLE_STYLE_IBM:
?C: This symbol, if defined, indicates that the double is
?C: the 64-bit IBM mainframe format.
?C:.
?C:DOUBLE_STYLE_IEEE:
?C: This symbol, if defined, indicates that the double is
?C: the 64-bit IEEE 754.
?C:.
?C:DOUBLE_STYLE_VAX:
?C: This symbol, if defined, indicates that the double is
?C: the 64-bit VAX format D or G.
?C:.
?LINT:known
 DOUBLE_IS_IEEE_754_32_BIT_LITTLE_ENDIAN
?LINT:known DOUBLE_IS_IEEE_754_32_BIT_BIG_ENDIAN
?LINT:known DOUBLE_IS_IEEE_754_64_BIT_LITTLE_ENDIAN
```

```
?LINT:known DOUBLE_IS_IEEE_754_64_BIT_BIG_ENDIAN
?LINT:known DOUBLE_IS_IEEE_754_128_BIT_LITTLE_ENDIAN
?LINT:known DOUBLE_IS_IEEE_754_128_BIT_BIG_ENDIAN
?LINT:known DOUBLE_IS_IEEE_754_64_BIT_MIXED_ENDIAN_LE_BE
?LINT:known DOUBLE_IS_IEEE_754_64_BIT_MIXED_ENDIAN_BE_LE
?LINT:known DOUBLE_IS_VAX_F_FLOAT
?LINT:known DOUBLE_IS_VAX_D_FLOAT
?LINT:known DOUBLE_IS_VAX_G_FLOAT
?LINT:known DOUBLE_IS_IBM_SINGLE_32_BIT
?LINT:known DOUBLE_IS_IBM_DOUBLE_64_BIT
?LINT:known DOUBLE_IS_CRAY_SINGLE_64_BIT
?LINT:known DOUBLE_IS_UNKNOWN_FORMAT
?H:#define DOUBLEKIND $doublekind  /**/
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_32_BIT_LITTLE_ENDIAN 1
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_32_BIT_BIG_ENDIAN 2
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_64_BIT_LITTLE_ENDIAN 3
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_64_BIT_BIG_ENDIAN 4
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_128_BIT_LITTLE_ENDIAN 5
?H:?DOUBLEKIND:#define
 DOUBLE_IS_IEEE_754_128_BIT_BIG_ENDIAN 6
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_64_BIT_MIXED_ENDIAN_LE_BE 7
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_64_BIT_MIXED_ENDIAN_BE_LE 8
?H:?DOUBLEKIND:#define DOUBLE_IS_VAX_F_FLOAT 9
?H:?DOUBLEKIND:#define DOUBLE_IS_VAX_D_FLOAT 10
?H:?DOUBLEKIND:#define DOUBLE_IS_VAX_G_FLOAT 11
?H:?DOUBLEKIND:#define DOUBLE_IS_IBM_SINGLE_32_BIT 12
?H:?DOUBLEKIND:#define DOUBLE_IS_IBM_DOUBLE_64_BIT 13
?H:?DOUBLEKIND:#define DOUBLE_IS_CRAY_SINGLE_64_BIT 14
?H:?DOUBLEKIND:#define DOUBLE_IS_UNKNOWN_FORMAT  -1
?H:#$d_PRIfldbl PERL_PRIfldbl $sPRIfldbl /**/
?H:#$d_PRIgldbl PERL_PRIgldbl $sPRIgldbl /**/
?H:#$d_PRIeldbl PERL_PRIeldbl $sPRIeldbl /**/
?H:#$d_PRIFUldbl PERL_PRIFldbl $sPRIFUldbl /**/
?H:#$d_PRIGUldbl PERL_PRIGldbl $sPRIGUldbl /**/
?H:#$d_PRIEUldbl PERL_PRIEldbl $sPRIEUldbl /**/
?H:#$d_SCNfldbl PERL_SCNfldbl $sSCNfldbl /**/
?H:#$d_double_has_inf DOUBLE_HAS_INF
?H:#$d_double_has_nan DOUBLE_HAS_NAN
?H:#$d_double_has_negative_zero
 DOUBLE_HAS_NEGATIVE_ZERO
?H:#$d_double_has_subnormals DOUBLE_HAS_SUBNORMALS
?H:#$d_double_style_cray DOUBLE_STYLE_CRAY
?H:#$d_double_style_ibm DOUBLE_STYLE_IBM
?H:#$d_double_style_ieee DOUBLE_STYLE_IEEE
?H:#$d_double_style_vax DOUBLE_STYLE_VAX
?H:.
?T:yyy message saveccflags
?F:!try
```

```
?LINT:change ccflags
?LINT:change uselongdouble
: Check what kind of doubles your system has
$echo "Checking the kind of doubles you have..." >&4
$cat >try.c <<EOP
#$i_stdlib I_STDLIB
#define DOUBLESIZE $doublesize
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <stdio.h>
static const double d = -0.1;
int main() {
 unsigned const char* b = (unsigned const char*)(&d);
#if DOUBLESIZE == 4
 if (b[0] == 0xCD && b[3] == 0xBD) {
   /* IEEE 754 32-bit little-endian */
   printf("1\n");
   exit(0);
 }
 if (b[0] == 0xBD && b[3] == 0xCD) {
   /* IEEE 754 32-bit big-endian */
   printf("2\n");
   exit(0);
 }
 if (b[0] == 0xCC && b[3] == 0xCC) {
   /* VAX format F, 32-bit
 PDP-style mixed endian. */
   printf("9\n");
   exit(0);
 }
 if (b[0] == 0xC0 && b[3] == 0x9A) {
   /* IBM single 32-bit */
   printf("12\n");
   exit(0);
 }
#endif
#if DOUBLESIZE == 8
 if (b[0] == 0x9A && b[7] == 0xBF) {
   /* IEEE 754 64-bit little-endian */
   printf("3\n");
   exit(0);
 }
 if (b[0] == 0xBF && b[7] == 0x9A) {
   /* IEEE 754 64-bit big-endian */
   printf("4\n");
   exit(0);
 }
```

```
 if (b[0] == 0x99 && b[3] == 0xBF && b[4] == 0x9A && b[7] == 0x99) {
  /* ARM mixed endian: two little-endian 32-bit floats, in big endian order:
   * 4 5 6 7 0 1 2 3 (MSB = 7, LSB = 0)
   * 99 99 b9 bf 9a 99 99 99 */
   printf("7\n");
   exit(0);
 }
 if (b[0] == 0x99 && b[3] == 0x9A && b[4] == 0xBF && b[7] == 0x99) {
  /* The opposite of case 7, mixed endian: two big-endian 32-bit floats,
   * in little endian order: 3 2 1 0 7 6 5 4 (MSB = 7, LSB = 0)
   * 99 99 99 9a bf b9 99 99 */
   printf("8\n");
   exit(0);
 }
 if (b[0] == 0xCC && b[7] == 0xCC) {
  /* VAX
 format D, 64-bit PDP-style mixed endian. */
   printf("10\n");
   exit(0);
 }
 if (b[0] == 0xD9 && b[7] == 0x99) {
  /* VAX format G, 64-bit PDP-style mixed endian. */
   printf("11\n");
   exit(0);
 }
 if (b[0] == 0xC0 && b[7] == 0x9A) {
   /* IBM double 64-bit */
   printf("13\n");
   exit(0);
 }
 if (b[0] == 0xBF && b[7] == 0xCD) {
   /* CRAY single 64-bit */
   printf("14\n");
   exit(0);
 }
#endif
#if DOUBLESIZE == 16
 if (b[0] == 0x9A && b[15] == 0xBF) {
   /* IEEE 754 128-bit little-endian */
   printf("5\n");
   exit(0);
 }
 if (b[0] == 0xBF && b[15] == 0x9A) {
   /* IEEE 754 128-bit big-endian */
   printf("6\n");
   exit(0);
 }
#endif
```

```
 /* Then there are old mainframe/miniframe formats like IBM and CRAY.
  * Whether those environments can still build Perl is debatable. */
 printf("-1\n"); /* unknown */
 exit(0);
}
EOP
set try
if eval $compile; then
   doublekind=`$run ./try`
else
   doublekind=-1
fi
case "$doublekind" in
1) echo "You have IEEE
 754 32-bit little endian doubles." >&4 ;;
2) echo "You have IEEE 754 32-bit big endian doubles." >&4 ;;
3) echo "You have IEEE 754 64-bit little endian doubles." >&4 ;;
4) echo "You have IEEE 754 64-bit big endian doubles." >&4 ;;
5) echo "You have IEEE 754 128-bit little endian doubles." >&4 ;;
6) echo "You have IEEE 754 128-bit big endian doubles." >&4 ;;
7) echo "You have IEEE 754 64-bit mixed endian doubles (32-bit LEs in BE)." >&4 ;;
8) echo "You have IEEE 754 64-bit mixed endian doubles (32-bit BEs in LE)." >&4 ;;
9) echo "You have VAX format F 32-bit PDP-style mixed endian doubles." >&4 ;;
10) echo "You have VAX format D 64-bit PDP-style mixed endian doubles." >&4 ;;
11) echo "You have VAX format G 64-bit PDP-style mixed endian doubles." >&4 ;;
12) echo "You have IBM short 32-bit doubles." >&4 ;;
13) echo "You have IBM long 64-bit doubles." >&4 ;;
14) echo "You have Cray single 64-bit doubles." >&4 ;;
*) echo "Cannot figure out your double.  You Cyber, or something?" >&4 ;;
esac
d_double_style_ieee=$undef
d_double_style_vax=$undef
d_double_style_ibm=$undef
d_double_style_cray=$undef
case
 "$doublekind" in
1|2|3|4|5|6|7|8) d_double_style_ieee=$define ;;
9|10|11) d_double_style_vax=$define ;;
12|13) d_double_style_ibm=$define ;;
14) d_double_style_cray=$define ;;
esac
case "$d_double_style_ieee" in
$define)
   d_double_has_inf=$define
   d_double_has_nan=$define
   d_double_has_negative_zero=$define
   d_double_has_subnormals=$define
   ;;
```

```
*)
   d_double_has_inf=$undef
   d_double_has_nan=$undef
   d_double_has_negative_zero=$undef
   d_double_has_subnormals=$undef
   ;;
esac
$rm_try

: Check print/scan long double stuff
echo " "

if $test X"$d_longdbl" = X"$define"; then

echo "Checking how to print long doubles..." >&4

if $test X"$sPRIfldbl" = X -a X"$doublesize" = X"$longdblsize"; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
 double d = 123.456;
 printf("%.3f\n", d);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run
 ./try`
  case "$yyy" in
  123.456)
   sPRIfldbl="'f'"; sPRIgldbl="'g'"; sPRIeldbl="'e'";
   sPRIFUldbl="'F'"; sPRIGUldbl="'G'"; sPRIEUldbl="'E'";
   echo "We will use %f."
   ;;
  esac
 fi
fi

if $test X"$sPRIfldbl" = X; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
 long double d = 123.456;
 printf("%.3Lf\n", d);
}
EOCP
```

```
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  123.456)
   sPRIfldbl='"Lf"'; sPRIgldbl='"Lg"'; sPRIeldbl='"Le"';
   sPRIFUldbl='"LF"'; sPRIGUldbl='"LG"'; sPRIEUldbl='"LE"';
   echo "We will use %Lf."
   ;;
  esac
 fi
fi

if $test X"$sPRIfldbl" = X; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
 long double d = 123.456;
 printf("%.3llf\n", d);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  123.456)
   sPRIfldbl='"llf"'; sPRIgldbl='"llg"'; sPRIeldbl='"lle"';
   sPRIFUldbl='"llF"'; sPRIGUldbl='"llG"'; sPRIEUldbl='"llE"';
   echo "We
 will use %llf."
   ;;
  esac
 fi
fi

if $test X"$sPRIfldbl" = X; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
 long double d = 123.456;
 printf("%.3lf\n", d);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
```

```
  case "$yyy" in
  123.456)
   sPRIfldbl='"lf"'; sPRIgldbl='"lg"'; sPRIeldbl='"le"';
   sPRIFUldbl='"lF"'; sPRIGUldbl='"lG"'; sPRIEUldbl='"lE"';
   echo "We will use %lf."
   ;;
  esac
 fi
fi

if $test X"$sPRIfldbl" = X; then
 echo "Cannot figure out how to print long doubles." >&4
else
 sSCNfldbl=$sPRIfldbl # expect consistency
fi

$rm_try

fi # d_longdbl

case "$sPRIfldbl" in
") d_PRIfldbl="$undef"; d_PRIgldbl="$undef"; d_PRIeldbl="$undef";
 d_PRIFUldbl="$undef"; d_PRIGUldbl="$undef"; d_PRIEUldbl="$undef";
 d_SCNfldbl="$undef";
 ;;
*) d_PRIfldbl="$define"; d_PRIgldbl="$define"; d_PRIeldbl="$define";
 d_PRIFUldbl="$define"; d_PRIGUldbl="$define"; d_PRIEUldbl="$define";
 d_SCNfldbl="$define";
 ;;
esac

: Before committing on uselongdouble,
 see whether that looks sane.
if $test "$uselongdouble" = "$define"; then
   message=""
   echo " "
   echo "Checking if your long double math functions work right..." >&4
   $cat > try.c <<EOF
#include <math.h>
#include <stdio.h>
int main() {
 printf("%"$sPRIgldbl"\n", sqrtl(logl(expl(cosl(sinl(0.0L))))+powl(2.0L, 3.0L)));
}
EOF
   case "$osname:$gccversion" in
   aix:) saveccflags="$ccflags"
  ccflags="$ccflags -qlongdouble" ;; # to avoid core dump
   esac
```

```
  set try
  if eval $compile_ok; then
    yyy=`$run ./try`
  fi
  case "$yyy" in
  3) echo "Your long double math functions are working correctly." >&4 ;;
  *) echo "Your long double math functions are broken, not using long doubles." >&4
     uselongdouble=$undef
     ;;
  esac
  $rm_try
  case "$osname:$gccversion" in
  aix:) ccflags="$saveccflags" ;; # restore
  esac
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/longdblfio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pipe.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_pipe.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:11:44  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_pipe: Inlibc
?MAKE: -pick add $@ %<
?S:d_pipe:
?S: This variable conditionally defines the HAS_PIPE symbol, which
?S: indicates to the C program that the pipe() routine is available
?S: to create an inter-process channel.
?S:.
?C:HAS_PIPE :
?C: This symbol, if defined, indicates
 that the pipe routine is
?C: available to create an inter-process channel.
```

```
?C:.
?H:#$d_pipe HAS_PIPE  /**/
?H:.
?LINT:set d_pipe
: see if pipe exists
set pipe d_pipe
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_pipe.U
No license file was found, but licenses were detected in source scan.

```
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:sizesize: Myread Typedef sizetype Compile run i_stdlib
?MAKE: -pick add $@ %<
?S:sizesize:
?S: This variable contains the size of a sizetype in bytes.
?S:.
?C:Size_t_size:
?C: This symbol holds the size of a Size_t in bytes.
?C:.
?H:#define Size_t_size $sizesize  /**/
?H:.
?T:yyy zzz
?F:!try
: Check size of size
echo " "
case "$sizetype" in
*_t) zzz="$sizetype" ;;
*)   zzz="filesize" ;;
esac
echo "Checking the size of $zzz..." >&4
cat > try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include
```

```
 <stdlib.h>
#endif
int main() {
   printf("%d\n", (int)sizeof($sizetype));
   exit(0);
}
EOCP
set try
if eval $compile_ok; then
 yyy=`$run ./try`
 case "$yyy" in
 ") sizesize=4
  echo "(I can't execute the test program--guessing $sizesize.)" >&4
  ;;
 *) sizesize=$yyy
  echo "Your $zzz size is $sizesize bytes."
  ;;
 esac
else
 sizesize=4
 echo "(I can't compile the test program--guessing $sizesize.)" >&4
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/sizesize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_vfork.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_vfork.U,v $
?RCS: Revision 3.0.1.1  1994/05/06  15:05:44  ram
?RCS: patch23: avoid inclusion of <vfork.h> if no vfork() used (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_vfork: Inhdr d_vfork
?MAKE: -pick add $@ %<
?S:i_vfork:
```

```
?S: This variable conditionally defines the I_VFORK symbol, and indicates
?S: whether a C program should include vfork.h.
?S:.
?C:I_VFORK:
?C: This symbol,
 if defined, indicates to the C program that it should
?C: include vfork.h.
?C:.
?H:#$i_vfork I_VFORK /**/
?H:.
: see if this is a vfork system
case "$d_vfork" in
"$define")
 set vfork.h i_vfork
 eval $inhdr
 ;;
*)
 i_vfork="$undef"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_vfork.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_gethname.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:13:00  ram
?RCS: patch36: call ./xenix explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:11  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_gethname d_uname d_phostname aphostname: phostname cat \
 myhostname package d_portable Loc echo n c +i_whoami +usrinc \
 Myread Guess Oldconfig Csym
?MAKE: -pick add $@ %<
?S:d_gethname:
```

```
?S: This variable conditionally defines the HAS_GETHOSTNAME symbol,
 which
?S: indicates to the C program that the gethostname() routine may be
?S: used to derive the host name.
?S:.
?S:d_uname:
?S: This variable conditionally defines the HAS_UNAME symbol, which
?S: indicates to the C program that the uname() routine may be
?S: used to derive the host name.
?S:.
?S:d_phostname:
?S: This variable conditionally defines the PHOSTNAME symbol, which
?S: contains the shell command which, when fed to popen(), may be
?S: used to derive the host name.
?S:.
?S:aphostname:
?S: Thie variable contains the command which can be used to compute the
?S: host name. The command is fully qualified by its absolute path, to make
?S: it safe when used by a process with super-user privileges.
?S:.
?C:HAS_GETHOSTNAME (GETHOSTNAME):
?C: This symbol, if defined, indicates that the C program may use the
?C: gethostname() routine to derive the host name.  See also HAS_UNAME
?C: and PHOSTNAME.
?C:.
?C:HAS_UNAME (UNAME):
?C: This symbol, if defined, indicates that the C program may
 use the
?C: uname() routine to derive the host name.  See also HAS_GETHOSTNAME
?C: and PHOSTNAME.
?C:.
?C:PHOSTNAME:
?C: This symbol, if defined, indicates that the C program may use the
?C: contents of PHOSTNAME as a command to feed to the popen() routine
?C: to derive the host name.  See also HAS_GETHOSTNAME and HAS_UNAME.
?C: Note that the command uses a fully qualified path, so that it is safe
?C: even if used by a process with super-user privileges.
?C:.
?H:#$d_gethname HAS_GETHOSTNAME /**/
?H:#$d_uname HAS_UNAME  /**/
?H:#$d_phostname PHOSTNAME "$aphostname" /* How to get the host name */
?H:.
?T:file val call
?LINT:change i_whoami
: see how we will look up host name
echo " "
if false; then
 : dummy stub to allow use of elif
```

```
@if HAS_GETHOSTNAME
elif set gethostname val -f d_gethname; eval $csym; $val; then
 echo 'gethostname() found.' >&4
 d_gethname="$define"
 call=gethostname
@end
@if HAS_UNAME
elif set uname val -f d_uname; eval $csym; $val; then
 if ./xenix; then
  $cat <<'EOM'
uname()
 was found, but you're running xenix, and older versions of xenix
have a broken uname(). If you don't really know whether your xenix is old
enough to have a broken system call, use the default answer.

EOM
  dflt=y
  case "$d_uname" in
  "$define") dflt=n;;
  esac
  rp='Is your uname() broken?'
  . ./myread
  case "$ans" in
  n*) d_uname="$define"; call=uname;;
  esac
 else
  echo 'uname() found.' >&4
  d_uname="$define"
  call=uname
 fi
@end
fi
case "$d_gethname" in
") d_gethname="$undef";;
esac
case "$d_uname" in
") d_uname="$undef";;
esac
@if PHOSTNAME || MYHOSTNAME
case "$d_uname$d_gethname" in
*define*)
 dflt=n
 cat <<EOM

Every now and then someone has a $call() that lies about the hostname
but can't be fixed for political or economic reasons.  If you wish, I can
@if MYHOSTNAME && PHOSTNAME
pretend $call() isn't there and maybe compile in the hostname or
```

```
compute it from the '$phostname' command at run-time.
@elsif MYHOSTNAME
pretend $call() isn't there and maybe compile
 in the hostname.
@elsif PHOSTNAME
pretend $call() isn't there and maybe compute hostname at run-time
thanks to the '$phostname' command.
@elsif WHOAMI
get the hostname from whomai.h (provided you have one).
@else
simply ignore your host name and use someting like "noname" instead.
@end

EOM
 rp="Shall I ignore $call() from now on?"
 . ./myread
 case "$ans" in
 y*) d_uname="$undef" d_gethname="$undef"; $echo $n "Okay...$c";;
 esac;;
esac
@end
@if PHOSTNAME || aphostname
?X: Compute the full path name for the command
case "$phostname" in
") aphostname=";;
*) case "$aphostname" in
 /*) ;;
 *) set X $phostname
  shift
  file=$1
  shift
  file=`./loc $file $file $pth`
  aphostname=`echo $file $*`
  ;;
 esac
 ;;
esac
@end
@if PHOSTNAME && MYHOSTNAME
case "$d_uname$d_gethname" in
*define*) ;;
*)
 case "$phostname" in
 ") ;;
 *)
  $cat <<EOT

There is no gethostname() or uname() on this system.  You have two
```

```
possibilities at this point:

1)  You can have your host name ($myhostname) compiled
 into $package, which
   lets $package start up faster, but makes your binaries non-portable, or
2)  you can have $package use a

 popen("$aphostname","r")

   which will start slower but be more portable.

@ if WHOAMI
Option 1 will give you the option of using whoami.h if you have one.
@ end
If you want option 2 but with a different command, you can edit config.sh at
the end of this shell script.

EOT
  case "$d_phostname" in
  "$define") dflt=n;;
  "$undef")  dflt=y;;
  ")
   case "$d_portable" in
   "$define") dflt=n ;;
   *) dflt=y ;;
   esac;;
  esac
  rp="Do you want your host name compiled in?"
  . ./myread
  case "$ans" in
  n*) d_phostname="$define" ;;
  *) aphostname=''; d_phostname="$undef";;
  esac;;
 esac
 case "$aphostname" in
 ")
@ if WHOAMI
  case "$i_whoami" in
  "$define")
   dflt=y
   $cat <<EOM

No hostname function--you can either use the whoami.h file, which has this line:

 `grep sysname $usrinc/whoami.h`

or you can have the name we came up with earlier
```

```
 ($myhostname) hardwired in.
EOM
   rp="Use whoami.h to get hostname?"
   . ./myread
   case "$ans" in
   n*) i_whoami="$undef";;
   esac
   ;;
  "$undef")
   $cat <<EOM
No hostname function and no whoami.h -- hardwiring "$myhostname".
EOM
   ;;
  esac;;
@ else
  echo 'No hostname function -- hardwiring '"$myhostname"'.' >&4;;
@ end
 esac;;
esac
@elsif PHOSTNAME
case "$d_uname$d_gethname" in
*define*) ;;
*)
 case "$phostname" in
 ")
@ if WHOAMI
  case "$i_whoami" in
  "$define")
   $cat <<EOM

No hostname function--we'll use the whoami.h file, which has this line:

 `grep sysname $usrinc/whoami.h`

EOM
   ;;
  *) echo "There will be no way for $package to get your hostname." >&4;;
  esac;;
@ else
  echo "There will be no way for $package to get your hostname." >&4;;
@ end
 *)
 echo "I'll use 'popen('''$aphostname''', "r")'' to get your hostname." >&4
  ;;
 esac;;
esac
@elsif MYHOSTNAME
case "$d_uname$d_gethname" in
```

```
*define*) ;;
*)
@ if WHOAMI
 case "$i_whoami" in
 "$define")
  dflt=y
  $cat
 <<EOM

No hostname function--you can either use the whoami.h file, which has this line:

 `grep sysname $usrinc/whoami.h`

or you can have the name we came up with earlier ($myhostname) hardwired in.
EOM
  rp="Use whoami.h to get hostname?"
  . ./myread
  case "$ans" in
  n*) i_whoami="$undef";;
  esac
  ;;
 "$undef")
  echo 'No whoami.h--hardwiring "'$myhostname'".' >&4;;
 esac;;
@ else
 echo 'Hardwiring "'$myhostname'".' >&4;;
@ end
esac
@end
case "$d_phostname" in
") d_phostname="$undef";;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_gethname.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
```

```
?MAKE:d_sigprocmask: Inlibc
?MAKE: -pick add $@ %<
?S:d_sigprocmask:
?S: This variable conditionally defines HAS_SIGPROCMASK
?S: if sigprocmask() is available to examine or change the signal mask
?S: of the calling process.
?S:.
?C:HAS_SIGPROCMASK:
?C: This symbol, if defined, indicates that the sigprocmask
?C: system call is available to examine or change the signal mask
?C: of the calling process.
?C:.
?H:#$d_sigprocmask HAS_SIGPROCMASK  /**/
?H:.
?LINT:set d_sigprocmask
: see if sigprocmask exists
set sigprocmask d_sigprocmask
eval
 $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_sigprocmask.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysstatfs.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysstatfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysstatfs:
?S: This variable conditionally defines the I_SYSSTATFS symbol,
?S: and indicates whether a C program should include <sys/statfs.h>.
?S:.
?C:I_SYS_STATFS:
?C: This symbol, if defined, indicates that <sys/statfs.h> exists.
?C:.
?H:#$i_sysstatfs I_SYS_STATFS  /**/
?H:.
?LINT:set i_sysstatfs
: see if this is a sys/statfs.h system
set sys/statfs.h i_sysstatfs
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_sysstatfs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:usefaststdio: Myread Oldconfig Setvar rsrc
?MAKE: -pick add $@ %<
?Y:TOP
?S:usefaststdio:
?S: This variable conditionally defines the USE_FAST_STDIO symbol,
?S: and indicates that Perl should be built to use 'fast stdio'.
?S: Defaults to define in Perls 5.8 and earlier, to undef later.
?S:.
?C:USE_FAST_STDIO:
?C: This symbol, if defined, indicates that Perl should
?C: be built to use 'fast stdio'.
?C: Defaults to define in Perls 5.8 and earlier, to undef later.
?C:.
?H:?%<:#ifndef USE_FAST_STDIO
?H:?%<:#$usefaststdio USE_FAST_STDIO  /**/
?H:?%<:#endif
?H:.
?T:xversion
?LINT:set usefaststdio
: Check if faststdio is requested and available
case "$usefaststdio" in
$define|true|[yY]*|")
 xversion=`awk
 '/define[  ]+PERL_VERSION/ {print $3}' $rsrc/patchlevel.h`
 case "$xversion" in
 [68]) dflt='y' ;;
 *) dflt='n' ;;
 esac
 ;;
*) dflt='n';;
esac
cat <<EOM

Perl can be built to use 'fast stdio', which means using the stdio
library but also directly manipulating the stdio buffers to enable
faster I/O.  Using stdio is better for backward compatibility (especially
```

```
for Perl extensions), but on the other hand since Perl 5.8 the 'perlio'
interface has been preferred instead of stdio.

If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp='Use the "fast stdio" if available?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*)      val="$undef" ;;
esac
set usefaststdio
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/usefaststdio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_rmdir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_rmdir.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_rmdir: Inlibc
?MAKE: -pick add $@ %<
?S:d_rmdir:
?S: This variable conditionally defines HAS_RMDIR if rmdir() is
?S: available to remove directories.
?S:.
?C:HAS_RMDIR (RMDIR):
?C: This symbol, if defined, indicates that the rmdir routine is
?C: available to remove directories. Otherwise you should fork off a
?C: new process to exec
 /bin/rmdir.
?C:.
?H:#$d_rmdir HAS_RMDIR  /**/
?H:.
?LINT:set d_rmdir
```

```
: see if rmdir exists
set rmdir d_rmdir
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_rmdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_drem.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_drem.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:12:14  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_drem: Inlibc
?MAKE: -pick add $@ %<
?S:d_drem:
?S: This variable conditionally defines the HAS_DREM symbol, which
?S: indicates to the C program that the drem() routine is available.
?S:.
?C:HAS_DREM :
?C: This symbol, if defined, indicates that the drem routine is
?C: available.
  This routine is roughly the same as fmod, i.e. it
?C: computes the remainder r=x-n*y, where n=rint(x/y), whereas fmod
?C: uses n=trunc(x/y).
?C:.
?H:#$d_drem HAS_DREM  /**/
?H:.
?LINT:set d_drem
: see if drem exists
set drem d_drem
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_drem.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: fpu.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:10  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:fpu: test cat cc Myread
?MAKE: -pick add $@ %<
?S:fpu (fpunit):
?S: Set to be the compile flag for the local floating point unit.
?S:.
?C:FPU (FPUNIT):
?C: String containing the flags for the local floating point unit.
?C:.
?H:#define FPU "$fpu" /**/
?H:.
: see what floating point compile flags should be used.
fpu=''
if $test -r /dev/fpa; then
 $cat>fpa.c << GOOP
 main(){return(1);}
GOOP
 $cc
 -ffpa -o fpa fpa.c
 fpa > fpa.out 2>&1
 if $test ! -s fpa.out; then
  dflt='y'
  $cat <<'EOM'

You seem to have a sun fpa...  I can compile the code to use the fpa but it will
mean that the code can ONLY run on a machine with a fpa...

EOM
  rp="Should I compile for fpa?"
  . ./myread
  if $test $ans = "n"; then
   fpu=''
  else
```

```
   fpu='-ffpa'
  fi
 else
  $cat <<'EOM'

You have the fpa device but I can't seem to use it.  Maybe you should talk to
your sysadmin about this.  For now, I am not going to compile it in.

EOM
 fi
fi
if $test "$fpu" = ''; then
 if $test -r /usr/etc/mc68881version; then
  dflt='y'
  $cat <<'EOM'

There also seems to be the pieces for a 68881.  If I compile this in, it will
work on almost all Sun 3's except for a few Sun-3/50s without a 68881...

EOM
  rp="Should I compile for a 68881?"
  . ./myread
  if $test $ans = "y"; then
   fpu='-f68881'
  fi
 fi
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/fpu.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endgrent.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_endgrent.U,v $
?RCS:
?MAKE:d_endgrent: Inlibc
?MAKE: -pick add $@ %<
?S:d_endgrent:
?S: This variable conditionally defines the HAS_ENDGRENT symbol, which
?S: indicates to the C program that the endgrent() routine is available
?S: for sequential access of the group database.
```

```
?S:.
?C:HAS_ENDGRENT:
?C: This symbol, if defined, indicates that the getgrent routine is
?C: available for finalizing sequential access of the group database.
?C:.
?H:#$d_endgrent HAS_ENDGRENT  /**/
?H:.
?LINT:set d_endgrent
: see if endgrent exists
set endgrent d_endgrent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_endgrent.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_accept4: Inlibc
?MAKE: -pick add $@ %<
?S:d_accept4:
?S: This variable conditionally defines HAS_ACCEPT4 if accept4() is
?S: available to accept socket connections.
?S:.
?C:HAS_ACCEPT4:
?C: This symbol, if defined, indicates that the accept4 routine is
?C: available to accept socket connections.
?C:.
?H:#$d_accept4 HAS_ACCEPT4 /**/
?H:.
?LINT:set d_accept4
: see if accept4 exists
set accept4 d_accept4
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_accept4.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: so.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: so.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:30:04  ram
?RCS: patch36: now tells user how he can suppress shared lib lookup (ADO)
?RCS: patch36: removed echo at the top, since it's now in the here-doc (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:07:02  ram
?RCS: patch30: created
?RCS:
?X:
?X: This unit computes the shared-object / shared-lib extension
?X:
?MAKE:so d_libname_unique: test libpth Loc Myread Oldconfig cat Setvar
?MAKE: -pick add $@ %<
?S:so:
?S: This
 variable holds the extension used to identify shared libraries
?S: (also known as shared objects) on the system. Usually set to 'so'.
?S:.
?S:d_libname_unique:
?S: This variable is defined if the target system insists on unique
?S: basenames for shared library files. This is currently true on Android,
?S: false everywhere else we know of.
?S: Defaults to 'undef'.
?S:.
?LINT:set d_libname_unique
?T: xxx
: compute shared library extension
case "$so" in
")
 if xxx=`./loc libc.sl X $libpth`; $test -f "$xxx"; then
  dflt='sl'
 else
  dflt='so'
 fi
 ;;
*) dflt="$so";;
esac
$cat <<EOM
```

```
On some systems, shared libraries may be available.  Answer 'none' if
you want to suppress searching of shared libraries for the remainder
of this configuration.

EOM
rp='What is the file extension used for shared libraries?'
. ./myread
so="$ans"

: Does target system insist that shared library basenames are unique
$cat << EOM

Some dynamic loaders assume that the *basename* of shared library
 filenames
are globally unique.  We'll default this to undef as we assume your system
is not this weird. Set to defined if you're on one of them.

EOM

dflt='n'
rp='Make shared library basenames unique?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*)   val="$undef"  ;;
esac
set d_libname_unique
eval $setvar

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
5.36.0/U/modified/so.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_cbrt.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_cbrt.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:d_cbrt: Inlibc
?MAKE: -pick add $@ %<
?S:d_cbrt:
?S: This variable conditionally defines the HAS_CBRT symbol, which
?S: indicates to the C program that the cbrt() (cube root) function
?S: is available.
?S:.
?C:HAS_CBRT (CBRT):
?C: This symbol, if defined, indicates that the cbrt() (cube root)
?C: function is available.
?C:.
?H:#$d_cbrt HAS_CBRT /**/
?H:.
?LINT:set
 d_cbrt
: see if cbrt exists
set cbrt d_cbrt
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_cbrt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysmode.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysmode: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysmode:
?S: This variable conditionally defines the I_SYSMODE symbol,
?S: and indicates whether a C program should include <sys/mode.h>.
?S:.
?C:I_SYSMODE:
?C: This symbol, if defined, indicates that <sys/mode.h> exists and
?C: should be included.
?C:.
?H:#$i_sysmode I_SYSMODE  /**/
?H:.
?LINT:set i_sysmode
: see if this is a sys/mode.h system
set sys/mode.h i_sysmode
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_sysmode.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Obsol_sh.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Obsol_sh.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:11  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file is prepended to .MT/Obsol_sh if that file is not empty. That file
?X: contains the necessary mappings of new symbols to obsolete ones.
?X:
?MAKE:Obsol_sh:
?MAKE: -pick prepend $@ ./Obsol_sh
?LINT:nocomment
#
# The following symbols are obsolete. They are mapped to the new
# symbols only to ease the transition process. The
 sources should be
# updated so as to use the new symbols only, since supporting of those
# obsolete symbols may end without notice.
#
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Obsol_sh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: scriptdir.U,v $
?RCS: Revision 3.0.1.3  1995/09/25  09:17:15  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:46:13  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:32:04  ram
?RCS: patch32: now uses installation prefix
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:scriptdir scriptdirexp installscript:
 afs cat test Getfile Loc \
 Oldconfig +bin Prefixit prefixexp Prefixup
?MAKE: -pick add $@ %<
?Y:TOP
?S:scriptdir:
?S: This variable holds the name of the directory in which the user wants
?S: to put publicly scripts for the package in question.  It is either
?S: the same directory as for binaries, or a special one that can be
?S: mounted across different architectures, like /usr/share. Programs
?S: must be prepared to deal with ~name expansion.
?S:.
?S:scriptdirexp:
?S: This variable is the same as scriptdir, but is filename expanded
?S: at configuration time, for programs not wanting to bother with it.
?S:.
?S:installscript:
?S: This variable is usually the same as scriptdirexp, unless you are on
?S: a system running AFS, in which case they may differ slightly. You
?S: should always use this variable within your makefiles for portability.
?S:.
?C:SCRIPTDIR:
?C: This symbol holds the name of the directory in which the user wants
?C: to put publicly executable scripts for the
 package in question.  It
?C: is often a directory that is mounted across diverse architectures.
?C: Programs must be prepared to deal with ~name expansion.
?C:.
?C:SCRIPTDIR_EXP:
?C: This is the same as SCRIPTDIR, but is filename expanded at
?C: configuration time, for use in programs not prepared to do
?C: ~name substitutions at run-time.
?C:.
?H:#define SCRIPTDIR "$scriptdir" /**/
```

```
?H:#define SCRIPTDIR_EXP "$scriptdirexp" /**/
?H:.
: determine where public executable scripts go
set scriptdir scriptdir
eval $prefixit
case "$scriptdir" in
")
 dflt="$bin"
 : guess some guesses
 $test -d /usr/share/scripts && dflt=/usr/share/scripts
 $test -d /usr/share/bin && dflt=/usr/share/bin
 $test -d /usr/local/script && dflt=/usr/local/script
 $test -d $prefixexp/script && dflt=$prefixexp/script
 set dflt
 eval $prefixup
 ;;
*)  dflt="$scriptdir"
 ;;
esac
$cat <<EOM

Some installations have a separate directory just for executable scripts so
that they can mount it across multiple architectures but
 keep the scripts in
one spot.  You might, for example, have a subdirectory of /usr/share for this.
Or you might just lump your scripts in with all your other executables.

EOM
fn=d~
rp='Where do you keep publicly executable scripts?'
. ./getfile
if $test "X$ansexp" != "X$scriptdirexp"; then
 installscript=''
fi
scriptdir="$ans"
scriptdirexp="$ansexp"
if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
scripts reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installscript" in
 ") dflt=`echo $scriptdirexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installscript";;
 esac
```

```
 fn=de~
 rp='Where will public scripts be installed?'
 . ./getfile
 installscript="$ans"
else
 installscript="$scriptdirexp"
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/scriptdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_siglist.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_siglist.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:22  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_siglist: Csym Setvar
?MAKE: -pick add $@ %<
?S:d_siglist:
?S: This variable conditionally defines HAS_SYS_SIGLIST if sys_siglist[] is
?S: available to translate signal numbers to strings.
?S:.
?C:HAS_SYS_SIGLIST (SYS_SIGLIST):
?C: This symbol, if defined, indicates that the sys_siglist array is
?C: available to translate signal numbers
 to strings.
?C:.
?H:#$d_siglist HAS_SYS_SIGLIST  /**/
?H:.
?LINT:set d_siglist
: see if sys_siglist[] exist
echo " "
if set sys_siglist val -a d_siglist; eval $csym; $val; then
 echo "You have sys_siglist[] for signal description." >&4
 val="$define"
else
 echo "You don't have sys_siglist[]." >&4
```

```
 val="$undef"
fi
set d_siglist
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_siglist.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: floatsize.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:17:09  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:floatsize: cat rm Myread +cc +ccflags
?MAKE: -pick add $@ %<
?S:floatsize:
?S: This variable contains the value of the FLOATSIZE symbol, which
?S: indicates to the C program how many bytes there are in a float.
?S:.
?C:FLOATSIZE:
?C: This symbol contains the size of
 a float, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define FLOATSIZE $floatsize  /**/
?H:.
?F:!try
: check for length of float
echo " "
case "$floatsize" in
")
 echo "Checking to see how big your floating point numbers are..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
```

```
int main()
{
 printf("%d\n", sizeof(float));
}
EOCP
 if $cc $ccflags -o try try.c >/dev/null 2>&1 ; then
  dflt=`./try`
 else
  dflt='4'
  echo "(I can't seem to compile the test program.  Guessing...)"
 fi
 ;;
*)
 dflt="$floatsize"
 ;;
esac
rp="What is the size of a floating point number (in bytes)?"
. ./myread
floatsize="$ans"
$rm -f try.c try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/floatsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_mntent.U,v $
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_mntent: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_mntent:
?S: This variable conditionally defines the I_MNTENT symbol, and indicates
?S: whether a C program should include <mntent.h>.
?S:.
?C:I_MNTENT:
?C: This symbol, if defined, indicates that <mntent.h> exists and
?C: should be included.
?C:.
?H:#$i_mntent I_MNTENT  /**/
?H:.
?LINT:set i_mntent
: see if this is a mntent.h system
set mntent.h i_mntent
```

```
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_mntent.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: nis.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:17:38  ram
?RCS: patch61: ensure suitable defaults for hostcat and friends
?RCS:
?RCS: Revision 3.0.1.2  1995/03/21  08:48:34  ram
?RCS: patch52: continued fix for NeXT NIS/NetInfo handling
?RCS:
?RCS: Revision 3.0.1.1  1995/02/15  14:16:23  ram
?RCS: patch51: now correctly handles NeXT using NIS rather than NetInfo
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:passcat groupcat hostcat:
 Myread Oldconfig test contains
?MAKE: -pick add $@ %<
?S:passcat:
?S: This variable contains a command that produces the text of the
?S: /etc/passwd file.  This is normally "cat /etc/passwd", but can be
?S: "ypcat passwd" when NIS is used.
?S:.
?S:groupcat:
?S: This variable contains a command that produces the text of the
?S: /etc/group file.  This is normally "cat /etc/group", but can be
?S: "ypcat group" when NIS is used.
?S:.
?S:hostcat:
?S: This variable contains a command that produces the text of the
?S: /etc/hosts file.  This is normally "cat /etc/hosts", but can be
?S: "ypcat hosts" when NIS is used.
?S:.
```

```
: see if we have to deal with yellow pages, now NIS.
?X: NeXT gives us some fun here, as always, by having both NIS (former YP)
?X: and NetInfo. But since it has both, it's ok to put the test inside the if.
?X: Contributed by Thomas Neumann <tom@smart.bo.open.de>.
if $test -d /usr/etc/yp || $test -d /etc/yp || $test -d /usr/lib/yp; then
 if $test -f /usr/etc/nibindd; then
  echo
 " "
  echo "I'm fairly confident you're on a NeXT."
@if passcat || groupcat
  echo " "
  rp='Do you get the passwd file via NetInfo?'
  dflt=y
  case "$passcat" in
  nidump*) ;;
  ") ;;
  *) dflt=n;;
  esac
  . ./myread
  case "$ans" in
  y*) passcat='nidump passwd .'
@if groupcat
   echo "(Assuming /etc/group is also distributed.)"
   groupcat='nidump group .'
@end
   ;;
  *) echo "You told me, so don't blame me."
   case "$passcat" in
   nidump*) passcat="
@if groupcat
     groupcat=";;
@end
   esac
@if groupcat
   echo "(Assuming /etc/group is handled the same way.)"
@end
   ;;
  esac
@end
@if hostcat
  echo " "
  rp='Do you get the hosts file via NetInfo?'
  dflt=y
  case "$hostcat" in
  nidump*) ;;
  ") ;;
  *) dflt=n;;
  esac
```

```
  . ./myread
  case "$ans" in
  y*) hostcat='nidump hosts .';;
  *) case "$hostcat" in
   nidump*) hostcat='';;
   esac
   ;;
  esac
@end
 fi
@if passcat || groupcat
 case "$passcat" in
 nidump*) ;;
 *)
  case "$passcat" in
  *ypcat*) dflt=y;;
  ")
 if $contains '^\+' /etc/passwd >/dev/null 2>&1; then
    dflt=y
   else
    dflt=n
   fi;;
  *) dflt=n;;
  esac
  echo " "
  rp='Are you getting the passwd file via yellow pages?'
  . ./myread
  case "$ans" in
  y*) passcat='ypcat passwd'
@if groupcat
   echo "(Assuming /etc/group is also distributed.)"
   groupcat='ypcat group'
@end
   ;;
  *) passcat='cat /etc/passwd'
@if groupcat
   echo "(Assuming /etc/group is also local.)"
   groupcat='cat /etc/group'
@end
   ;;
  esac
  ;;
 esac
@end
@if hostcat
 case "$hostcat" in
 nidump*) ;;
 *)
```

```
  case "$hostcat" in
  *ypcat*) dflt=y;;
  ") if $contains '^\+' /etc/passwd >/dev/null 2>&1; then
    dflt=y
   else
    dflt=n
   fi;;
  *) dflt=n;;
  esac
  echo " "
  rp='Are you getting the hosts file via yellow pages?'
  . ./myread
  case "$ans" in
  y*) hostcat='ypcat hosts';;
  *) hostcat='cat /etc/hosts';;
  esac
  ;;
 esac
@end
fi
?X: Ensure suitable default -- Manoj Srivastava
case "$hostcat" in
") hostcat=':'
 $test -f /etc/hosts && hostcat='cat
 /etc/hosts';;
esac
case "$groupcat" in
") groupcat=':'
 $test -f /etc/group && groupcat='cat /etc/group';;
esac
case "$passcat" in
") passcat=':'
 $test -f /etc/passwd && passcat='cat /etc/passwd';;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/nis.U
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```
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_copysign: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_copysign:
?S: This variable conditionally defines the HAS_COPYSIGN symbol, which
?S: indicates to the C program that the copysign() routine is available.
?S:.
?C:HAS_COPYSIGN:
?C: This symbol, if defined, indicates that the copysign routine is
?C: available to do the copysign function.
?C:.
?H:#$d_copysign HAS_COPYSIGN  /**/
?H:.
?LINT:set d_copysign
: see if copysign exists
set copysign d_copysign
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_copysign.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_fma: Inlibc
?MAKE: -pick add $@ %<
?S:d_fma:
?S: This variable conditionally defines the HAS_FMA symbol, which
?S: indicates to the C program that the fma() routine is available.
?S:.
?C:HAS_FMA:
?C: This symbol, if defined, indicates that the fma routine is
?C: available to do the multiply-add function.
?C:.
?H:#$d_fma HAS_FMA  /**/
?H:.
?LINT:set d_fma
: see if fma exists
set fma d_fma
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fma.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
```

```
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_getprpwnam: Inlibc
?MAKE: -pick add $@ %<
?S:d_getprpwnam:
?S: This variable conditionally defines HAS_GETPRPWNAM if getprpwnam() is
?S: available to retrieve protected (shadow) password entries by name.
?S:.
?C:HAS_GETPRPWNAM:
?C: This symbol, if defined, indicates that the getprpwnam system call is
?C: available to retrieve protected (shadow) password entries by name.
?C:.
?H:#$d_getprpwnam HAS_GETPRPWNAM  /**/
?H:.
?LINT:set d_getprpwnam
: see if getprpwnam exists
set getprpwnam d_getprpwnam
eval $inlibc
```

Found
 in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_getprpwnam.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtold: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtold:
?S: This variable conditionally defines the HAS_STRTOLD symbol, which
?S: indicates to the C program that the strtold() routine is available.
?S:.
?C:HAS_STRTOLD:
?C: This symbol, if defined, indicates that the strtold routine is
?C: available to convert strings to long doubles.
?C:.
```

```
?H:#$d_strtold HAS_STRTOLD  /**/
?H:.
?LINT:set d_strtold
: see if strtold exists
set strtold d_strtold
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strtold.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sitecustomize.U,v $
?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_sitecustomize.U,v $
?RCS:
?MAKE:usesitecustomize: Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:usesitecustomize:
?S: This variable is set to true when the user requires a mechanism that
?S: allows the sysadmin to add entries to @INC at runtime.  This variable
?S: being set, makes perl run '$sitelib/sitecustomize.pl' at startup.
?S:.
?C:USE_SITECUSTOMIZE:
?C: This symbol, if defined, indicates that sitecustomize should
?C: be used.
?C:.
?H:?%<:@if USE_SITECUSTOMIZE
?H:?%<:#ifndef USE_SITECUSTOMIZE
?H:?%<:#$usesitecustomize USE_SITECUSTOMIZE  /**/
?H:?%<:#endif
?H:?%<:@end
?H:.
: Check if site customization support was requested
case "$usesitecustomize" in
   $define|true|[Yy]*)
 usesitecustomize="$define"
 ;;
    *)
 usesitecustomize="$undef"
 ;;
   esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_sitecustomize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: man1dir.U,v 3.2 1999/07/08 20:57:21 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1996, 1999 Andy Dougherty
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: man1dir.U,v $
?RCS: Revision 3.2  1999/07/08 20:57:21  doughera
?RCS: Used installprefix.
?RCS:
?RCS: Revision 3.1  1999/07/08 20:52:19  doughera
?RCS: Updated for perl5.005_5x
?RCS:
?RCS: Revision 3.0.1.1  1997/02/28  16:10:29  ram
?RCS: patch61: created
?RCS:
?X: This was originally specific to perl5.  Since perl5 has man pages that
?X: go in both man1/ and man3/ directories, we need both man1dir
?X: and
 man3dir.  This unit is basically dist's mansrc.U with
?X: man1 used instead of man everywhere.
?X:
?MAKE:man1dir man1direxp man1ext installman1dir: cat nroff Loc Oldconfig \
 spackage test Getfile Setprefixvar Prefixit Prefixup sysman Myread \
 prefixexp
?MAKE: -pick add $@ %<
?Y:TOP
?D:man1dir=''
?S:man1dir:
?S: This variable contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?D:man1direxp=''
?S:man1direxp:
?S: This variable is the same as the man1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
```

```
?S:.
?D:installman1dir="
?S:installman1dir:
?S: This variable is really the same as man1direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man1direxp only points to the read-only access location.
 For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:man1ext:
?S: This variable contains the extension that the manual page should
?S: have: one of 'n', 'l', or '1'.  The Makefile must supply the '.'.
?S: See man1dir.
?S:.
?T:lookpath
?LINT:change prefixvar
?LINT:set man1direxp
: determine where manual pages go
set man1dir man1dir none
eval $prefixit
$cat <<EOM

$spackage has manual pages available in source form.
EOM
case "$nroff" in
nroff)
 echo "However, you don't have nroff, so they're probably useless to you."
 case "$man1dir" in
 ") man1dir="none";;
 esac;;
esac
echo "If you don't want the manual sources installed, answer 'none'."
case "$man1dir" in
' ') dflt=none
 ;;
")
 lookpath="$prefixexp/share/man/man1"
 lookpath="$lookpath $prefixexp/man/man1 $prefixexp/man/l_man/man1"
 lookpath="$lookpath $prefixexp/man/p_man/man1"
 lookpath="$lookpath $prefixexp/man/u_man/man1"
 lookpath="$lookpath $prefixexp/man/man.1"
?X: Experience has shown people
 expect man1dir to be under prefix,
?X: so we now always put it there.  Users who want other behavior
?X: can answer interactively or use a command line option.
?X: Does user have System V-style man paths.
 case "$sysman" in
 */?_man*) dflt=`./loc . $prefixexp/l_man/man1 $lookpath` ;;
```

```
 *) dflt=`./loc . $prefixexp/man/man1 $lookpath` ;;
 esac
 set dflt
 eval $prefixup
 ;;
*)  dflt="$man1dir"
 ;;
esac
echo " "
fn=dn+~
rp="Where do the main $spackage manual pages (source) go?"
. ./getfile
if $test "X$man1direxp" != "X$ansexp"; then
 installman1dir="
fi
prefixvar=man1dir
. ./setprefixvar

case "$man1dir" in
") man1dir=' '
 installman1dir=";;
esac

: What suffix to use on installed man pages

case "$man1dir" in
' ')
 man1ext='0'
 ;;
*)
 rp="What suffix should be used for the main $spackage man pages?"
 case "$man1ext" in
 ") case "$man1dir" in
  *1)  dflt=1 ;;
  *1p) dflt=1p ;;
  *1pm) dflt=1pm ;;
  *l) dflt=l;;
  *n) dflt=n;;
  *o) dflt=o;;
  *p) dflt=p;;
  *C) dflt=C;;
  *L) dflt=L;;
  *L1)
 dflt=L1;;
  *) dflt=1;;
  esac
  ;;
 *) dflt="$man1ext";;
```

```
 esac
 . ./myread
 man1ext="$ans"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/man1dir.U
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```
?RCS: $Id: d_normsig.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_normsig.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:37:03  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:14:48  ram
?RCS: patch36: call ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_normsig jobslib: test Setvar Guess _a
?MAKE: -pick add $@ %<
?S:d_normsig:
?S: This variable conditionally
 defines the NORMSIG symbol, which
?S: indicates to the C program that the normal signal handling routines
?S: should be used, as opposed to the ones in 4.1bsd (sigset, etc.).
?S:.
?S:jobslib:
?S: This variable holds the argument to be passed to the loader to include
?S: the strange signal handling routines from 4.1bsd.  On systems that
?S: have NORMSIG defined this variable is null.
?S:.
?C:NORMSIG:
?C: This symbol, if defined, indicates that normal signal handling routines
?C: should be used, as opposed to the ones in 4.1bsd (sigset, etc.).
?C:.
```

```
?H:#$d_normsig NORMSIG  /**/
?H:.
?LINT:set d_normsig
: see if we need -ljobs and if we have sigset, etc.
echo " "
if $test -r /usr/lib/libjobs$_a || $test -r /usr/local/lib/libjobs$_a ; then
 echo "Jobs library found." >&4
 val="$undef"
 jobslib='-ljobs'
else
 if ./bsd; then
  echo "No jobs library found. (I suppose this is at least 4.2...)" >&4
 else
  echo "No jobs library found. (That's okay, we all have our faults.)" >&4
 fi
 val="$define"
 jobslib=''
fi
set
 d_normsig
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_normsig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cpp_stuff.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:30:48  ram
?RCS: patch61: added cute quoting trick for wild stringify support
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:08:24  ram
?RCS: patch36: now uses cppstdin instead of plain cpp for consistency (ADO)
?RCS: patch36: remove temporary files when done
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:36  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:cpp_stuff cpp_quote: cat contains cppstdin cppflags cppminus rm Warn \
 package
?MAKE: -pick
 add $@ %<
?S:cpp_stuff:
?S: This variable contains an identification of the catenation mechanism
?S: used by the C preprocessor.
?S:.
?S:cpp_quote:
?S: This variable is set to either "" or " depending on whether the
?S: pre-processor pre-dates ANSI or not.  It is used in the production of
?S: the SQuoTe() and EQuoTe() macros, and was introduced to overcome a bug
?S: in gcc 3.x whereby the pre-processor complained loudly about the
?S: unterminated strings.
?S:.
?C:CAT2:
?C: This macro catenates 2 tokens together.
?C:.
?C:CAT3:
?C: This macro catenates 3 tokens together.
?C:.
?C:CAT4:
?C: This macro catenates 4 tokens together.
?C:.
?C:CAT5:
?C: This macro catenates 5 tokens together.
?C:.
?C:STRINGIFY:
?C: This macro surrounds its token with double quotes.
?C:.
?C:SCAT2:
?C: This macro catenates 2 tokens together and stringifies the result.
?C:.
?C:SCAT3:
?C: This macro catenates 3 tokens together and stringifies the result.
?C:.
?C:SCAT4:
?C: This macro catenates 4 tokens
 together and stringifies the result.
?C:.
?C:SCAT5:
?C: This macro catenates 5 tokens together and stringifies the result.
?C:.
?H:?%<:#if $cpp_stuff == 1
?H:?CAT2:#define CAT2(a,b)a/**/b
?H:?CAT3:#define CAT3(a,b,c)a/**/b/**/c
?H:?CAT4:#define CAT4(a,b,c,d)a/**/b/**/c/**/d
?H:?CAT5:#define CAT5(a,b,c,d,e)a/**/b/**/c/**/d/**/e
```

```
?H:?STRINGIFY:#define STRINGIFY(a)"a"
?H:?%<:#define SQuoTe(a)${cpp_quote}a
?H:?%<:#define EQuoTe(a)a${cpp_quote}
?H:?SCAT2:#define SCAT2(a,b)EQuoTe(SQuoTe(a)b)
?H:?SCAT3:#define SCAT3(a,b,c)EQuoTe(SQuoTe(a)b/**/c)
?H:?SCAT4:#define SCAT4(a,b,c,d)EQuoTe(SQuoTe(a)b/**/c/**/d)
?H:?SCAT5:#define SCAT5(a,b,c,d,e)EQuoTe(SQuoTe(a)b/**/c/**/d/**/e)
?H:?%<:#endif
?H:?%<:#if $cpp_stuff == 42
?X: The additional level of indirection enables these macros to be
?X: used as arguments to other macros.  See K&R 2nd ed., page 231.
?H:?%<:#define CaTiFy(a,b) a ## b
?H:?%<:#define CAT2(a,b) CaTiFy(a,b)
?H:?CAT3:#define CAT3(a,b,c) CAT2(CaTiFy(a,b),c)
?H:?CAT4:#define CAT4(a,b,c,d)
 CAT2(CaTiFy(a,b), CaTiFy(c,d))
?H:?CAT5:#define CAT5(a,b,c,d,e) CAT2(CAT2(CaTiFy(a,b), CaTiFy(c,d)), e)
?H:?%<:#define StGiFy(a)# a
?H:?STRINGIFY:#define STRINGIFY(a)StGiFy(a)
?H:?SCAT2:#define SCAT2(a,b)StGiFy(a) StGiFy(b)
?H:?SCAT3:#define SCAT3(a,b,c)StGiFy(a) StGiFy(b) StGiFy(c)
?H:?SCAT4:#define SCAT4(a,b,c,d)StGiFy(a) StGiFy(b) StGiFy(c) StGiFy(d)
?H:?SCAT5:#define SCAT5(a,b,c,d,e)StGiFy(a) StGiFy(b) StGiFy(c) StGiFy(d) StGiFy(e)
?H:?%<:#endif
?H:?%<:#if $cpp_stuff != 1 && $cpp_stuff != 42
?H:?%<:#include "Bletch: How does this C preprocessor catenate tokens?"
?H:?%<:#endif
?H:.
?W:%<:CAT2 CAT3 CAT4 CAT5 STRINGIFY SCAT2 SCAT3 SCAT4 SCAT5
?F:!cpp_stuff.c
?LINT:known StGiFy EQuoTe SQuoTe CaTiFy
: how do we catenate cpp tokens here?
echo " "
echo "Checking to see how your cpp does stuff like catenate tokens..." >&4
cpp_quote="
$cat >cpp_stuff.c <<'EOCP'
#define RCAT(a,b)a/**/b
#define ACAT(a,b)a ## b
RCAT(Rei,ser)
ACAT(Cir,cus)
EOCP
$cppstdin $cppflags $cppminus <cpp_stuff.c >cpp_stuff.out
 2>&1
if $contains 'Circus' cpp_stuff.out >/dev/null 2>&1; then
 echo "Oh!  Smells like ANSI's been here."
 echo "We can catify or stringify, separately or together!"
 cpp_stuff=42
elif $contains 'Reiser' cpp_stuff.out >/dev/null 2>&1; then
```

```
 echo "Ah, yes!  The good old days!"
 cpp_stuff=1
 $cat >cpp_stuff.c <<'EOCP'
#define SQuoTe(a)"a
#define EQuoTe(a)a"
#define CAT2(a,b)EQuoTe(SQuoTe(a)b)
CAT2(Vic,tory)
EOCP
 $cppstdin $cppflags $cppminus <cpp_stuff.c >cpp_stuff.out 2>&1
 if $contains '"Victory"' cpp_stuff.out >/dev/null 2>&1; then
  echo "I'll resort to a cute trick to also be able to stringify."
  cpp_quote=""
 else
  $cat <<EOM
However, in the good old days we don't know how to stringify and
catify at the same time...
@if SCAT2 || SCAT3 || SCAT4 || SCAT5
You might have to edit the values of the SCAT[2-5] macros in config.h...
@else
Hopefully, $package does not need this feature.
@end
EOM
 fi
else
 ./warn <<EOM
I can't seem to be able to catenate tokens with your cpp.
@if
 CAT2 || CAT3 || CAT4 || CAT5 || SCAT2 || SCAT3 || SCAT4 || SCAT5
You're going to have to edit the values of the following
macros in config.h:

@if CAT2 || CAT3 || CAT4 || CAT5
 CAT[2-5]
@end
@if SCAT2 || SCAT3 || SCAT4 || SCAT5
 SCAT[2-5]
@end

in order to let me compile.
@end
EOM
 cpp_stuff="/* Help! How do we handle cpp_stuff? */*/"
fi
$rm -f cpp_stuff.*
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/cpp_stuff.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getservbyport_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getservbyport_r getservbyport_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getservbyport_r:
?S: This variable conditionally defines the HAS_GETSERVBYPORT_R symbol,
?S: which indicates to the C program that the getservbyport_r()
?S: routine is available.
?S:.
?S:getservbyport_r_proto:
?S: This variable encodes the prototype of getservbyport_r.
?S: It is zero if d_getservbyport_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getservbyport_r
?S: is defined.
?S:.
?C:HAS_GETSERVBYPORT_R:
?C: This symbol, if defined, indicates
 that the getservbyport_r routine
?C: is available to getservbyport re-entrantly.
?C:.
?C:GETSERVBYPORT_R_PROTO:
?C: This symbol encodes the prototype of getservbyport_r.
?C: It is zero if d_getservbyport_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getservbyport_r
?C: is defined.
?C:.
?H:#$d_getservbyport_r HAS_GETSERVBYPORT_R /**/
?H:#define GETSERVBYPORT_R_PROTO $getservbyport_r_proto /**/
?H:.
?T:try hdrs d_getservbyport_r_proto
: see if getservbyport_r exists
set getservbyport_r d_getservbyport_r
eval $inlibc
case "$d_getservbyport_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getservbyport_r_proto:$usethreads" in
 ":define") d_getservbyport_r_proto=define
  set d_getservbyport_r_proto getservbyport_r $hdrs
```

```
 eval $hasproto ;;
*) ;;
esac
case "$d_getservbyport_r_proto" in
define)
case "$getservbyport_r_proto" in
"|0) try='int getservbyport_r(int, const char*, struct servent*, char*, size_t,
struct servent**);'
./protochk "$extern_C $try" $hdrs && getservbyport_r_proto=I_ICSBWR ;;
esac
case "$getservbyport_r_proto" in
"|0) try='struct servent* getservbyport_r(int, const char*, struct servent*, char*, int);'
./protochk "$extern_C $try" $hdrs && getservbyport_r_proto=S_ICSBI ;;
esac
case "$getservbyport_r_proto" in
"|0) try='int getservbyport_r(int, const char*, struct servent*, struct servent_data*);'
./protochk "$extern_C $try" $hdrs && getservbyport_r_proto=I_ICSD ;;
esac
case "$getservbyport_r_proto" in
"|0) d_getservbyport_r=undef
 getservbyport_r_proto=0
 echo "Disabling getservbyport_r, cannot determine prototype." >&4 ;;
* ) case "$getservbyport_r_proto" in
 REENTRANT_PROTO*) ;;
 *) getservbyport_r_proto="REENTRANT_PROTO_$getservbyport_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "getservbyport_r has no prototype, not using it." >&4 ;;
 esac
 d_getservbyport_r=undef
 getservbyport_r_proto=0
 ;;
esac
;;
*) getservbyport_r_proto=0
;;
esac
```

Found
 in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getservbyport_r.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_access.U,v 3.0 1993/08/18 12:05:42 ram Exp $

```
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_access.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_access: test +cc cat +cppflags h_fcntl h_sysfile i_stdlib rm Inlibc Findhdr
?MAKE: -pick add $@ %<
?S:d_access:
?S: This variable conditionally defines HAS_ACCESS if the access() system
?S: call is available to check for access permissions using real IDs.
?S:.
?C:HAS_ACCESS:
?C: This manifest constant lets the C program know that the access()
?C: system
 call is available to check for accessibility using real UID/GID.
?C: (always present on UNIX.)
?C:.
?H:#$d_access HAS_ACCESS  /**/
?H:.
?W:%<:R_OK W_OK X_OK F_OK
?LINT:set d_access
?LINT:change h_fcntl h_sysfile
: access call always available on UNIX
set access d_access
eval $inlibc

: locate the flags for 'access()'
case "$d_access" in
"$define")
 echo " "
 $cat >access.c <<EOCP
#include <sys/types.h>
#ifdef I_FCNTL
#include <fcntl.h>
#endif
#ifdef I_SYS_FILE
#include <sys/file.h>
#endif
#ifdef I_UNISTD
#include <unistd.h>
```

```
#endif
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() {
 exit(R_OK);
}
EOCP
 : check sys/file.h first, no particular reason here
 if $test `./findhdr sys/file.h` && \
  $cc -o access $cppflags -DI_SYS_FILE access.c >/dev/null 2>&1 ; then
  h_sysfile=true;
  echo "<sys/file.h> defines the *_OK access constants." >&4
 elif $test `./findhdr fcntl.h` && \
  $cc -o access $cppflags -DI_FCNTL access.c >/dev/null 2>&1 ; then
  h_fcntl=true;
  echo
 "<fcntl.h> defines the *_OK access constants." >&4
@if I_UNISTD
 elif $test `./findhdr unistd.h` && \
  $cc -o access $cppflags -DI_UNISTD access.c >/dev/null 2>&1 ; then
  echo "<unistd.h> defines the *_OK access constants." >&4
@end
 else
  echo "I can't find the four *_OK access constants--I'll use mine." >&4
 fi
 ;;
esac
$rm -f access*
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_access.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pwrite.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_pwrite.U,v $
?RCS:
```

```
?MAKE:d_pwrite: Inlibc
?MAKE: -pick add $@ %<
?S:d_pwrite:
?S: This variable conditionally defines the HAS_PWRITE symbol, which
?S: indicates to the C program that the pwrite() routine is available.
?S:.
?C:HAS_PWRITE :
?C: This symbol, if defined, indicates that the pwrite routine is
?C: available to perform writes on a file descriptor at a given offset.
?C:.
?H:#$d_pwrite HAS_PWRITE  /**/
?H:.
?LINT:set d_pwrite
: see if pwrite
 exists
set pwrite d_pwrite
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_pwrite.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_readdir_r.U,v 0RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_readdir_r readdir_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_dirent extern_C
?MAKE: -pick add $@ %<
?S:d_readdir_r:
?S: This variable conditionally defines the HAS_READDIR_R symbol,
?S: which indicates to the C program that the readdir_r()
?S: routine is available.
?S:.
?S:readdir_r_proto:
?S: This variable encodes the prototype of readdir_r.
?S: It is zero if d_readdir_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_readdir_r
?S: is defined.
?S:.
?C:HAS_READDIR_R:
?C: This symbol, if defined, indicates that the readdir_r routine
?C: is available to readdir re-entrantly.
```

```
?C:.
?C:READDIR_R_PROTO:
?C: This
 symbol encodes the prototype of readdir_r.
?C: It is zero if d_readdir_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_readdir_r
?C: is defined.
?C:.
?H:#$d_readdir_r HAS_READDIR_R /**/
?H:#define READDIR_R_PROTO $readdir_r_proto /**/
?H:.
?T:try hdrs d_readdir_r_proto
: see if readdir_r exists
set readdir_r d_readdir_r
eval $inlibc
case "$d_readdir_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_dirent dirent.h"
 case "$d_readdir_r_proto:$usethreads" in
 ":define") d_readdir_r_proto=define
  set d_readdir_r_proto readdir_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_readdir_r_proto" in
 define)
 case "$readdir_r_proto" in
 "|0) try='int readdir_r(DIR*, struct dirent*, struct dirent**);'
 ./protochk "$extern_C $try" $hdrs && readdir_r_proto=I_TSR ;;
 esac
 case "$readdir_r_proto" in
 "|0) try='int readdir_r(DIR*, struct dirent*);'
 ./protochk "$extern_C $try" $hdrs && readdir_r_proto=I_TS
 ;;
 esac
 case "$readdir_r_proto" in
 "|0) d_readdir_r=undef
  readdir_r_proto=0
  echo "Disabling readdir_r, cannot determine prototype." >&4 ;;
 * ) case "$readdir_r_proto" in
  REENTRANT_PROTO*) ;;
  *) readdir_r_proto="REENTRANT_PROTO_$readdir_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "readdir_r has no prototype, not using it." >&4 ;;
```

```
  esac
  d_readdir_r=undef
  readdir_r_proto=0
  ;;
 esac
 ;;
*) readdir_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_readdir_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sunmath.U,v $
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sunmath: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sunmath:
?S: This variable conditionally defines the I_SUNMATH symbol, and indicates
?S: whether a C program should include <sunmath.h>.
?S:.
?C:I_SUNMATH:
?C: This symbol, if defined, indicates that <sunmath.h> exists and
?C: should be included.
?C:.
?H:#$i_sunmath I_SUNMATH  /**/
?H:.
?LINT:set i_sunmath
: see if this is a sunmath.h system
set sunmath.h i_sunmath
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_sunmath.U
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```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?MAKE:gccversion gccosandvers: cat cpp rm +cc \
 Myread Guess Options Oldconfig Loc osname osvers grep run ccname
?MAKE: -pick add $@ %<
?S:gccversion:
?S: If GNU cc (gcc) is used, this variable holds '1' or '3' (for instance)
?S: to indicate whether the compiler is version 1 or 3.  This is used in
?S: setting some of the default cflags.  It is set to '' if not gcc.
?S:.
?S:gccosandvers:
?S: If GNU cc (gcc) is used, this variable the operating system and
?S: version
 used to compile the gcc.  It is set to '' if not gcc,
?S: or if nothing useful can be parsed as the os version.
?S:.
?T:gccshortvers incdir d
?F:!try.c !try
?LINT:extern locincpth ccflags ldflags
?LINT:change locincpth ccname cpp
: Check whether they have gcc in any guise.
echo " "
echo "Checking for GNU cc in disguise and/or its version number..." >&4
$cat >try.c <<EOM
#include <stdio.h>
int main() {
#ifdef __GNUC__
#ifdef __VERSION__
 printf("%s\n", __VERSION__);
#else
 printf("%s\n", "1");
#endif
#endif
 exit(0);
}
EOM
if $cc -o try $ccflags $ldflags try.c >/dev/null 2>&1; then
 gccversion=`$run ./try`
 case "$gccversion" in
 '') echo "You are not using GNU cc." ;;
 *)  echo "You are using GNU cc $gccversion."
     ccname=gcc
```

```
    ;;
 esac
else
 echo " "
 echo "*** WHOA THERE!!! ***" >&4
 echo "    Your C compiler \"$cc\" doesn't seem to be working!" >&4
?X: using -K will prevent aborting--maybe they're cross compiling?
 case "$knowitall" in
 ")
 echo "    You'd better
 start hunting for one and let me know about it." >&4
  exit 1
  ;;
 esac
fi
$rm -f try try.*
case "$gccversion" in
1*) cpp=`./loc gcc-cpp $cpp $pth` ;;
esac
case "$gccversion" in
") gccosandvers=" ;;
*) gccshortvers=`echo "$gccversion"|sed 's/ .*//'`
  gccosandvers=`$cc -v 2>&1 | \
 $grep '/specs$'|sed "s!.*/[^-/]*-[^-/]*-\([^-/]*\)/$gccshortvers/specs!\1!"`
  gccshortvers="
  case "$gccosandvers" in
  $osname) gccosandvers=" ;; # linux gccs seem to have no linux osvers, grr
  $osname$osvers) ;; # looking good
  $osname*) cat <<EOM >&4

*** WHOA THERE!!! ***

   Your gcc has not been compiled for the exact release of
   your operating system ($gccosandvers versus $osname$osvers).

   In general it is a good idea to keep gcc synchronized with
   the operating system because otherwise serious problems
   may ensue when trying to compile software, like Perl.

   I'm trying to be optimistic here, though, and will continue.
   If later during the configuration and build icky
 compilation
   problems appear (headerfile conflicts being the most common
   manifestation), I suggest reinstalling the gcc to match
   your operating system release.

EOM
    ;;
```

```
  *) gccosandvers=" ;; # failed to parse, better be silent
  esac
  ;;
esac
case "$ccname" in
") ccname="$cc" ;;
esac

: gcc 3.1 complains about adding -Idirectories that it already knows about,
: so we will take those off from locincpth.
case "$gccversion" in
3*)
   echo "main(){}">try.c
   for incdir in `$cc -v -c try.c 2>&1 | \
      sed '1,/^#include <\.\.\.>/d;/^End of search list/,$d;s/^ //'` ; do
      locincpth=`echo $locincpth | sed s!$incdir!!`
   done
   $rm -f try try.*
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/gccvers.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
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?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?MAKE:run to from targetarch usecrosscompile: src awk cat grep test rm \
 echo sed mkdir cp touch chmod
?MAKE: -pick add $@ %<
?Y:TOP
?S:usecrosscompile:
?S: This variable conditionally defines the USE_CROSS_COMPILE symbol,
?S: and indicates that our package has been cross-compiled.
?S:.
?S:run:
?S: This variable contains the command used by Configure
?S: to copy and execute a cross-compiled executable in the
```

```
?S: target host.  Useful and available only during
 the build.
?S: Empty string '' if not cross-compiling.
?S:.
?S:from:
?S: This variable contains the command used by Configure
?S: to copy files from the target host.  Useful and available
?S: only during the build.
?S: The string ':' if not cross-compiling.
?S:.
?S:to:
?S: This variable contains the command used by Configure
?S: to copy to from the target host.  Useful and available
?S: only during the build.
?S: The string ':' if not cross-compiling.
?S:.
?S:targetarch:
?S: If cross-compiling, this variable contains the target architecture.
?S: If not, this will be empty.
?S:.
?C:USE_CROSS_COMPILE:
?C: This symbol, if defined, indicates that the package is being
?C: cross-compiled.
?C:.
?C:CROSS_TARGET_ARCH:
?C: This symbol, if defined, indicates the target architecture
?C: the package has been cross-compiled to.
?C: Undefined if not a cross-compile.
?C:.
?H:?usecrosscompile:#ifndef USE_CROSS_COMPILE
?H:?usecrosscompile:#$usecrosscompile USE_CROSS_COMPILE /**/
?H:?usecrosscompile:#define
 CROSS_TARGET_ARCH "$targetarch" /**/
?H:?usecrosscompile:#endif
?H:.
?T:croak pwd exe f q i j cwd
?LINT:extern usecrosscompile
?LINT:extern cc
?LINT:extern usrinc
?LINT:change usrinc
?LINT:change ar
?LINT:change nm
?LINT:change ranlib
?LINT:extern targethost
?LINT:extern targetdir
?LINT:change targetdir
?LINT:extern targetuser
?LINT:change targetuser
```

```
?LINT:extern targetrun
?LINT:extern targetfrom
?LINT:extern targetto
?LINT:extern targetmkdir
?LINT:change targetrun
?LINT:change targetfrom
?LINT:change targetto
?LINT:change targetmkdir
?LINT:extern incpth
?LINT:extern libpth
?LINT:change incpth
?LINT:change libpth
?LINT:extern locincpth
?LINT:extern loclibpth
?LINT:change locincpth
?LINT:change loclibpth
?LINT:extern TMPDIR
: setup for possible cross-compilation
run=''
to=:
from=:
usecrosscompile='undef'
targetarch=''
case "$usecrosscompile" in
$define|true|[yY]*)
@if { test -d ../Cross }
?X:
?X: Cross-compilation is enabled when there is a 'Cross' directory found
?X: at the root
 of the package.  This directory must contain the following
?X: entries for defining the cross-compilation process:
?X:
?X: FIXME FIXME
?X: WE MUST DISTINGUISH BETWEEN LOCAL cross-compiling AND REMOTE ONE
?X: ACTUALLY, REMOTE COMPILATION SHOULD BE CONFIGURED INTERACTIVELY
?X: IT WILL COPY ALL THE FILES FROM THE MANIFEST DOWN TO THE REMOTE DIR...
?X: (and copy things like 'mkdep', etc...)
?X:
 $echo "Cross-compiling..."
 croak=''
 case "$cc" in
 *-*-gcc)
?X: A cross-compiling gcc, probably.
    targetarch=`$echo $cc|$sed 's/-gcc$//'`
    ar=$targetarch-ar
?X: leave out ld, choosing it is more complex
    nm=$targetarch-nm
    ranlib=$targetarch-ranlib
```

```
    $echo 'extern int foo;' > try.c
    set X `$cc -v -E try.c 2>&1 | \
  $awk '/^#include </,/^End of search /'|$grep '/include'`
    shift
 if $test $# -gt 0; then
        incpth="$incpth $*"
  incpth="`$echo $incpth|$sed 's/^ //'`"
  echo "Guessing incpth '$incpth'." >&4
  for i in $*; do
   j="`$echo $i|$sed 's,/include$,/lib,'`"
   if
$test -d $j; then
    libpth="$libpth $j"
   fi
  done
  libpth="`$echo $libpth|$sed 's/^ //'`"
  echo "Guessing libpth '$libpth'." >&4
    fi
    $rm -f try.c
    ;;
esac
case "$targetarch" in
") echo "Targetarch not defined." >&4; croak=y ;;
*)  echo "Using targetarch $targetarch." >&4 ;;
esac
case "$incpth" in
") echo "Incpth not defined." >&4; croak=y ;;
*)  echo "Using incpth '$incpth'." >&4 ;;
esac
case "$libpth" in
") echo "Libpth not defined." >&4; croak=y ;;
*)  echo "Using libpth '$libpth'." >&4 ;;
esac
case "$usrinc" in
")
 for i in $incpth; do
  if $test -f $i/errno.h -a -f $i/stdio.h -a -f $i/time.h; then
   usrinc=$i
   echo "Guessing usrinc $usrinc." >&4
   break
  fi
    done
    case "$usrinc" in
    ") echo "Usrinc not defined." >&4; croak=y ;;
    esac
 ;;
*)  echo "Using usrinc $usrinc." >&4 ;;
esac
```

```
case "$targethost" in
") echo "Targethost not defined." >&4; croak=y ;;
*)  echo "Using targethost $targethost."
>&4
esac
locincpth=' '
loclibpth=' '
case "$croak" in
y) echo "Cannot continue, aborting." >&4; exit 1 ;;
esac
case "$src" in
/*) run=$src/Cross/run
    targetmkdir=$src/Cross/mkdir
    to=$src/Cross/to
    from=$src/Cross/from
    ;;
*)  pwd=`$test -f ../Configure & cd ..; pwd`
    run=$pwd/Cross/run
    targetmkdir=$pwd/Cross/mkdir
    to=$pwd/Cross/to
    from=$pwd/Cross/from
    ;;
esac
case "$targetrun" in
") targetrun=ssh ;;
esac
case "$targetto" in
") targetto=scp ;;
esac
case "$targetfrom" in
") targetfrom=scp ;;
esac
run=$run-$targetrun
to=$to-$targetto
from=$from-$targetfrom
case "$targetdir" in
")
 targetdir="${TMPDIR:-/tmp}"
 echo "Guessing targetdir $targetdir." >&4
 ;;
esac
case "$targetuser" in
")
 targetuser=root
 echo "Guessing targetuser $targetuser." >&4
 ;;
esac
case "$targetfrom" in
```

```
 scp) q=-q ;;
 *) q=" ;;
 esac
 case "$targetrun" in
 ssh|rsh)
  $cat >$run <<EOF
#!/bin/sh
case "\$1" in
-cwd)
 shift
 cwd=\$1
  shift
 ;;
esac
case "\$cwd" in
") cwd=$targetdir ;;
esac
exe=\$1
shift
if $test ! -f \$exe.xok; then
 $to \$exe
 $touch \$exe.xok
fi
$targetrun -l $targetuser $targethost "cd \$cwd && ./\$exe \$@"
EOF
  ;;
 *)  echo "Unknown targetrun '$targetrun'" >&4
     exit 1
     ;;
 esac
 case "$targetmkdir" in
 */Cross/mkdir)
  $cat >$targetmkdir <<EOF
#!/bin/sh
$targetrun -l $targetuser $targethost "mkdir -p \$@"
EOF
     $chmod a+rx $targetmkdir
     ;;
 *)  echo "Unknown targetmkdir '$targetmkdir'" >&4
     exit 1
     ;;
 esac
 case "$targetto" in
 scp|rcp)
     $cat >$to <<EOF
#!/bin/sh
for f in \$@
do
```

```
 case "\$f" in
 /*)
   $targetmkdir \`dirname \$f\`
   $targetto $q \$f $targetuser@$targethost:\$f            || exit 1
   ;;
 *)
   $targetmkdir $targetdir/\`dirname \$f\`
   $targetto $q \$f $targetuser@$targethost:$targetdir/\$f || exit 1
   ;;
 esac
done
exit 0
EOF
     ;;
 cp) $cat >$to <<EOF
#!/bin/sh
for f in \$@
do
 case "\$f" in
 /*)
   $mkdir -p $targetdir/\`dirname
 \$f\`
   $cp \$f $targetdir/\$f || exit 1
   ;;
 *)
   $targetmkdir $targetdir/\`dirname \$f\`
   $cp \$f $targetdir/\$f || exit 1
   ;;
 esac
done
exit 0
EOF
     ;;
 *)  echo "Unknown targetto '$targetto'" >&4
     exit 1
     ;;
 esac
 case "$targetfrom" in
 scp|rcp)
   $cat >$from <<EOF
#!/bin/sh
for f in \$@
do
 $rm -f \$f
 $targetfrom $q $targetuser@$targethost:$targetdir/\$f . || exit 1
done
exit 0
EOF
```

```
    ;;
 cp) $cat >$from <<EOF
#!/bin/sh
for f in \$@
do
 $rm -f \$f
 cp $targetdir/\$f . || exit 1
done
exit 0
EOF
    ;;
 *)  echo "Unknown targetfrom '$targetfrom'" >&4
    exit 1
    ;;
 esac
 if $test ! -f $run; then
    echo "Target 'run' script '$run' not found." >&4
 else
    $chmod a+rx $run
 fi
 if $test ! -f $to; then
    echo "Target 'to' script '$to' not found." >&4
 else
    $chmod a+rx $to
 fi
 if $test ! -f $from; then
    echo "Target 'from' script '$from' not found." >&4
 else
    $chmod a+rx $from
 fi
 if $test ! -f $run -o ! -f $to -o !
 -f $from; then
    exit 1
 fi
 $cat >&4 <<EOF
Using '$run' for remote execution,
and '$from' and '$to'
for remote file transfer.
EOF
@else
 echo "Cross-compilation is not supported for this package." >&4
 exit 1
@end
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/dist/U/Cross.U
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```
?RCS: $Id: i_sysstat.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
?RCS: $Log: i_sysstat.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:48:30  ram
?RCS: patch61: created
?RCS:
?MAKE:i_sysstat: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysstat:
?S: This variable conditionally defines the I_SYS_STAT symbol,
?S: and indicates whether a C program should include <sys/stat.h>.
?S:.
?C:I_SYS_STAT (I_SYSSTAT):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/stat.h>.
?C:.
?H:#$i_sysstat I_SYS_STAT  /**/
?H:.
?LINT:set
 i_sysstat
: see if sys/stat.h is available
set sys/stat.h i_sysstat
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sysstat.U
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```
?RCS: $Id: Extract.U,v 3.0.1.2 1997/02/28 14:58:52 ram Exp $
?RCS:
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```
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Extract.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  14:58:52  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:51:46  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which can be doted in order to extract
?X: .SH files with variable substitutions.
?X:
?X: When running
 Configure from a remote directory ($src is not '.'),
?X: then the files will be created in that directory, so beware!
?X:
?MAKE:Extract: src
?MAKE: -pick add $@ %<
?F:./extract
?T:PERL_CONFIG_SH dir file name create mkdir_p
: script used to extract .SH files with variable substitutions
cat >extract <<'EOS'
PERL_CONFIG_SH=true
echo "Doing variable substitutions on .SH files..."
if test -f MANIFEST; then
 set x `awk '{print $1}' < MANIFEST | grep '\.SH$'`
else
 echo "(Looking for .SH files under the source directory.)"
 set x `(cd "$src"; find . -name "*.SH" -print)`
fi
shift
case $# in
0) set x `(cd "$src"; echo *.SH)`; shift;;
esac
if test ! -f "$src/$1"; then
 shift
fi
?X: script to emulate mkdir -p
mkdir_p='
name=$1;
create="";
while test $name; do
 if test ! -d "$name"; then
```

```
  create="$name $create";
  name=`echo $name | sed -e "s|^[^/]*$||"`;
  name=`echo $name | sed -e "s|\(.*\)/.*|\1|"`;
 else
  name="";
 fi;
done;
for file in $create; do
 mkdir $file;
done
'
for file in $*;
 do
 case "$src" in
 ".")
  case "$file" in
  */*)
   dir=`expr X$file : 'X\(.*\)/'`
   file=`expr X$file : 'X.*/\(.*\)'`
   (cd "$dir" && . ./$file)
   ;;
  *)
   . ./$file
   ;;
  esac
  ;;
 *)
?X:
?X: When running Configure remotely ($src is not '.'), we cannot source
?X: the files directly, since that would wrongly cause the extraction
?X: where the source lie instead of withing the current directory. Therefore,
?X: we need to 'sh <file' then, which is okay since they will source the
?X: existing config.sh file. It's not possible to use:
?X:  ../src/Configure -S -O -Dsomething
?X: unfortunately since no new config.sh with the -Dsomething override
?X: will be created before running the .SH files. A minor buglet.
?X:
?X: Note that we must create the directory hierarchy ourselves if it does
?X: not exist already, and that is done through a shell emulation of the
?X: 'mkdir -p' command. We don't want to use the $installdir metaconfig
?X: symbol here since that would require too much to
 be configured for
?X: this simple extraction task that may happen quickly with 'Configure -S'.
?X:  -- RAM, 18/03/96
?X:
  case "$file" in
  */*)
   dir=`expr X$file : 'X\(.*\)/'`
```

```
   file=`expr X$file : 'X.*/\(.*\)'`
   (set x $dir; shift; eval $mkdir_p)
   sh <"$src/$dir/$file"
   ;;
  *)
   sh <"$src/$file"
   ;;
  esac
  ;;
 esac
done
if test -f "$src/config_h.SH"; then
 if test ! -f config.h; then
 : oops, they left it out of MANIFEST, probably, so do it anyway.
 . "$src/config_h.SH"
 fi
fi
EOS
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Extract.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: ssizetype.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:24:21  ram
?RCS: patch61: integrated perl5 concerns for mis-configured sfio
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:30:28  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:33:06  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:ssizetype: Myread Typedef
```

```
 sizetype cat rm \
 +cc +optimize +ccflags +ldflags +libs _o
?MAKE: -pick add $@ %<
?S:ssizetype:
?S: This variable defines ssizetype to be something like ssize_t,
?S: long or int.  It is used by functions that return a count
?S: of bytes or an error condition.  It must be a signed type.
?S: We will pick a type such that sizeof(SSize_t) == sizeof(Size_t).
?S:.
?C:SSize_t:
?C: This symbol holds the type used by functions that return
?C: a count of bytes or an error condition.  It must be a signed type.
?C: It is usually ssize_t, but may be long or int, etc.
?C: It may be necessary to include <sys/types.h> or <unistd.h>
?C: to get any typedef'ed information.
?C: We will pick a type such that sizeof(SSize_t) == sizeof(Size_t).
?C:.
?H:#define SSize_t $ssizetype  /* signed count of bytes */
?H:.
?F:!ssize.out !ssize
: see what type is used for signed size_t
set ssize_t ssizetype int stdio.h sys/types.h
eval $typedef
dflt="$ssizetype"
?X: Now check out whether sizeof(SSize_t) == sizeof(Size_t)
$cat
 > ssize.c <<EOM
#include <stdio.h>
#include <sys/types.h>
#define Size_t $sizetype
#define SSize_t $dflt
int main()
{
 if (sizeof(Size_t) == sizeof(SSize_t))
  printf("$dflt\n");
 else if (sizeof(Size_t) == sizeof(int))
  printf("int\n");
 else
  printf("long\n");
 fflush(stdout);
 exit(0);
}
EOM
echo " "
?X: If $libs contains -lsfio, and sfio is mis-configured, then it
?X: sometimes (apparently) runs and exits with a 0 status, but with no
?X: output!.  Thus we check with test -s whether we actually got any
?X: output.  I think it has to do with sfio's use of _exit vs. exit,
```

```
?X: but I don't know for sure.  --Andy Dougherty  1/27/97.
if $cc $optimize $ccflags $ldflags -o ssize ssize.c $libs > /dev/null 2>&1  &&
  ./ssize > ssize.out 2>/dev/null && test -s ssize.out ; then
 ssizetype=`$cat ssize.out`
 echo "I'll be using $ssizetype for functions returning a byte count." >&4
else
 $cat >&4 <<EOM
Help! I can't compile and run the ssize_t test program: please enlighten me!
(This
 is probably a misconfiguration in your system or libraries, and
you really ought to fix it.  Still, I'll try anyway.)

I need a type that is the same size as $sizetype, but is guaranteed to
be signed.  Common values are ssize_t, int and long.

EOM
 rp="What signed type is the same size as $sizetype?"
 . ./myread
 ssizetype="$ans"
fi
$rm -f ssize ssize$_o ssize.*
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/ssizetype.U
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```
?RCS: $Id: d_memset.U 1 2006-08-24 12:32:52Z rmanfredi $
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?RCS:
?RCS: $Log: d_memset.U,v $
?RCS: Revision 3.0.1.1  1993/09/13  16:03:11  ram
?RCS: patch10: removed text recommending bzero over memset (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:36  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_memset: Inlibc
?MAKE: -pick add $@ %<
?S:d_memset:
?S: This variable conditionally defines the HAS_MEMSET symbol, which
```

```
?S: indicates to the C program that the memset() routine is available
?S: to set blocks of memory.
?S:.
?C:HAS_MEMSET
 (MEMSET):
?C: This symbol, if defined, indicates that the memset routine is available
?C: to set blocks of memory.
?C:.
?H:#$d_memset HAS_MEMSET /**/
?H:.
?LINT:set d_memset
: see if memset exists
set memset d_memset
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_memset.U
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```
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?RCS:
?MAKE:d_setitimer: Inlibc
?MAKE: -pick add $@ %<
?S:d_setitimer:
?S: This variable conditionally defines the HAS_SETITIMER symbol, which
?S: indicates to the C program that the setitimer() routine is available.
?S:.
?C:HAS_SETITIMER:
?C: This symbol, if defined, indicates that the setitimer routine is
?C: available to set interval timers.
?C:.
?H:#$d_setitimer HAS_SETITIMER  /**/
?H:.
?LINT:set d_setitimer
: see if setitimer exists
set setitimer d_setitimer
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_setitimer.U

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```
?RCS: $Id: d_getsent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
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?RCS:
?RCS: $Log: d_getsent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getsent: Inlibc
?MAKE: -pick add $@ %<
?S:d_getsent:
?S: This variable conditionally defines HAS_GETSERVENT if getservent() is
?S: available to look up network services in some data base or another.
?S:.
?C:HAS_GETSERVENT:
?C: This symbol, if defined, indicates that the getservent() routine is
?C: available to look up network services in some
 data base or another.
?C:.
?H:#$d_getsent HAS_GETSERVENT  /**/
?H:.
?LINT:set d_getsent
: see if getservent exists
set getservent d_getsent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_getsent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_string.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: i_string.U,v $
?RCS: Revision 3.0.1.2  1993/10/16  13:50:12  ram
?RCS: patch12: special units Loc and Guess were missing from dependencies
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:07:26  ram
?RCS: patch10: removed "(Actually, this looks more like...)" messages (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:28  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: See if we should include <string.h> or <strings.h>
?X:
?MAKE:i_string strings:
 test Setvar Findhdr Warn
?MAKE: -pick add $@ %<
?S:i_string:
?S: This variable conditionally defines the I_STRING symbol, which
?S: indicates that <string.h> should be included rather than <strings.h>.
?S:.
?S:strings:
?S: This variable holds the full path of the string header that will be
?S: used. Typically /usr/include/string.h or /usr/include/strings.h.
?S:.
?C:I_STRING:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <string.h> (USG systems) instead of <strings.h> (BSD systems).
?C:.
?H:#$i_string I_STRING  /**/
?H:.
?LINT:set i_string
: see which of string.h or strings.h is needed
echo " "
strings=`./findhdr string.h`
if $test "$strings" && $test -r "$strings"; then
 echo "Using <string.h> instead of <strings.h>." >&4
 val="$define"
else
 val="$undef"
 strings=`./findhdr strings.h`
 if $test "$strings" && $test -r "$strings"; then
  echo "Using <strings.h> instead of <string.h>." >&4
 else
  ./warn "No string header found -- You'll surely
 have problems."
 fi
fi
```

```
set i_string
eval $setvar
case "$i_string" in
"$undef") strings=`./findhdr strings.h`;;
*)   strings=`./findhdr string.h`;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_string.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endpent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_endpent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_endpent: Inlibc
?MAKE: -pick add $@ %<
?S:d_endpent:
?S: This variable conditionally defines HAS_ENDPROTOENT if endprotoent() is
?S: available to close whatever was being used for protocol queries.
?S:.
?C:HAS_ENDPROTOENT:
?C: This symbol, if defined, indicates that the endprotoent() routine is
?C: available to close whatever was being used
 for protocol queries.
?C:.
?H:#$d_endpent HAS_ENDPROTOENT  /**/
?H:.
?LINT:set d_endpent
: see if endprotoent exists
set endprotoent d_endpent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_endpent.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sigsetmk.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sigsetmk.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:23  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sigsetmk: Csym Setvar
?MAKE: -pick add $@ %<
?S:d_sigsetmk:
?S: This variable conditionally defines the HAS_SIGSETMASK symbol, which
?S: indicates to the C program that the sigsetmask() routine is available
?S: to set current signal mask.
?S:.
?C:HAS_SIGSETMASK (SIGSETMASK):
?C: This symbol, if defined, indicates that the sigsetmask()
 routine is
?C: available to set current signal mask. Otherwise, you should probably
?C: emulate this by using signal(), but fear race conditions...
?C:.
?H:#$d_sigsetmk HAS_SIGSETMASK  /**/
?H:.
?LINT:set d_sigsetmk
: see if sigsetmask exists
echo " "
if set sigsetmask val -f d_sigsetmk; eval $csym; $val; then
 echo 'sigsetmask() found.' >&4
 val="$define"
else
 echo "sigsetmask() not found -- We'll use signal()." >&4
 val="$undef"
fi
set d_sigsetmk
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sigsetmk.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethbynm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_gethbynm.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_gethbyname: Inlibc
?MAKE: -pick add $@ %<
?S:d_gethbyname (d_gethbynm d_gethhstby):
?S: This variable conditionally defines the HAS_GETHOSTBYNAME symbol, which
?S: indicates to the C program that the gethostbyname() routine is available
?S: to look up host names in some data base or other.
?S:.
?C:HAS_GETHOSTBYNAME (GETHOSTBYNAME):
?C: This
 symbol, if defined, indicates that the gethostbyname() routine is
?C: available to look up host names in some data base or other.
?C:.
?H:#$d_gethbyname HAS_GETHOSTBYNAME  /**/
?H:.
?LINT:set d_gethbyname
: see if gethostbyname exists
set gethostbyname d_gethbyname
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_gethbynm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: cppstdin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cppstdin.U,v $
?RCS: Revision 3.0.1.4  1994/10/29  16:08:34  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.3  1994/01/24  14:05:38  ram
?RCS: patch16: comment for CPPLAST was missing
?RCS:
?RCS: Revision 3.0.1.2  1993/12/15  08:18:58  ram
?RCS: patch15: new variables cpprun and cpplast, guaranteed wrapper-free
?RCS: patch15: cppstdin now tries to use cc, even at the cost of a wrapper
?RCS:
?RCS: Revision 3.0.1.1
  1993/08/25  14:00:53  ram
?RCS: patch6: remove wrapper when not actually used
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:38  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:cppstdin cppminus cpprun cpplast: contains test \
 Myread Oldconfig Loc cpp +cc rm hint osname gccversion
?MAKE: -pick add $@ %<
?S:cppstdin:
?S: This variable contains the command which will invoke the C
?S: preprocessor on standard input and put the output to stdout.
?S: It is primarily used by other Configure units that ask about
?S: preprocessor symbols.
?S:.
?S:cppminus:
?S: This variable contains the second part of the string which will invoke
?S: the C preprocessor on the standard input and produce to standard
?S: output.  This variable will have the value "-" if cppstdin needs
?S: a minus to specify standard input, otherwise the value is "".
?S:.
?S:cpprun:
?S: This variable contains the command which will invoke a C preprocessor
?S: on standard input and put the output to stdout. It is guaranteed
 not
?S: to be a wrapper and may be a null string if no preprocessor can be
?S: made directly available. This preprocessor might be different from the
?S: one used by the C compiler. Don't forget to append cpplast after the
?S: preprocessor options.
?S:.
?S:cpplast:
?S: This variable has the same functionality as cppminus, only it applies
?S: to cpprun and not cppstdin.
?S:.
```

```
?C:CPPSTDIN:
?C: This symbol contains the first part of the string which will invoke
?C: the C preprocessor on the standard input and produce to standard
?C: output.  Typical value of "cc -E" or "/lib/cpp", but it can also
?C: call a wrapper. See CPPRUN.
?C:.
?C:CPPMINUS:
?C: This symbol contains the second part of the string which will invoke
?C: the C preprocessor on the standard input and produce to standard
?C: output.  This symbol will have the value "-" if CPPSTDIN needs a minus
?C: to specify standard input, otherwise the value is "".
?C:.
?C:CPPRUN:
?C: This symbol contains the string which will invoke
 a C preprocessor on
?C: the standard input and produce to standard output. It needs to end
?C: with CPPLAST, after all other preprocessor flags have been specified.
?C: The main difference with CPPSTDIN is that this program will never be a
?C: pointer to a shell wrapper, i.e. it will be empty if no preprocessor is
?C: available directly to the user. Note that it may well be different from
?C: the preprocessor used to compile the C program.
?C:.
?C:CPPLAST:
?C: This symbol is intended to be used along with CPPRUN in the same manner
?C: symbol CPPMINUS is used with CPPSTDIN. It contains either "-" or "".
?C:.
?H:#define CPPSTDIN "$cppstdin"
?H:#define CPPMINUS "$cppminus"
?H:#define CPPRUN "$cpprun"
?H:#define CPPLAST "$cpplast"
?H:.
?F:cppstdin !testcpp.out !testcpp.c
?T:wrapper x_cpp x_minus ok
?LINT:extern cppflags
: see how we invoke the C preprocessor
echo " "
echo "Now, how can we feed standard input to your C preprocessor..." >&4
cat <<'EOT' >testcpp.c
#define ABC abc
#define
 XYZ xyz
ABC.XYZ
EOT
cd ..
if test ! -f cppstdin; then
 if test "X$osname" = "Xaix" -a "X$gccversion" = X; then
  # AIX cc -E doesn't show the absolute headerfile
  # locations but we'll cheat by using the -M flag.
```

```
  echo 'cat >.$$.c; rm -f .$$.u; "'$cc'" ${1+"$@"} -M -c .$$.c 2>/dev/null; test -s .$$.u && awk '"'"$2 ~ /\.h$/ { print
"# 0 \"'"$2"'\" }'"'" .$$.u; rm -f .$$.o .$$.u; "'$cc'" -E ${1+"$@"} .$$.c; rm .$$.c' > cppstdin
 else
  echo 'cat >.$$.c; "'$cc $cppflags'" -E ${1+"$@"} .$$.c; rm .$$.c' >cppstdin
 fi
else
 echo "Keeping your $hint cppstdin wrapper."
fi
chmod 755 cppstdin
wrapper=`pwd`/cppstdin
ok='false'
cd UU

?X:
?X: We'll run the cpp tests again if we don't have any valid C preprocessor
?X: yet or don't know how to proceed without a wrapper (in which case cpprun
?X: is empty and that's really annoying...)
?X:
if $test "X$cppstdin" != "X" && \
 $cppstdin $cppminus <testcpp.c >testcpp.out 2>&1 && \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1
then
 echo "You used
 to use $cppstdin $cppminus so we'll use that again."
 case "$cpprun" in
 '') echo "But let's see if we can live without a wrapper..." ;;
 *)
  if $cpprun $cpplast <testcpp.c >testcpp.out 2>&1 && \
   $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1
  then
   echo "(And we'll use $cpprun $cpplast to preprocess directly.)"
   ok='true'
  else
   echo "(However, $cpprun $cpplast does not work, let's see...)"
  fi
  ;;
 esac
else
 case "$cppstdin" in
 '') ;;
 *)
  echo "Good old $cppstdin $cppminus does not seem to be of any help..."
  ;;
 esac
fi

if $ok; then
 : nothing
```

```
elif echo 'Maybe """$cc"' -E" will work...'; \
 $cc -E <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Yup, it does."
 x_cpp="$cc $cppflags -E"
 x_minus="";
elif echo 'Nope...maybe """$cc"' -E -" will work...'; \
 $cc -E - <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Yup, it does."
 x_cpp="$cc $cppflags -E"
 x_minus='-';
elif
 echo 'Nope...maybe """$cc"' -P" will work...'; \
 $cc -P <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Yipee, that works!"
 x_cpp="$cc $cppflags -P"
 x_minus="";
elif echo 'Nope...maybe """$cc"' -P -" will work...'; \
 $cc -P - <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "At long last!"
 x_cpp="$cc $cppflags -P"
 x_minus='-';
elif echo 'No such luck, maybe "'$cpp"' will work...'; \
 $cpp <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "It works!"
 x_cpp="$cpp $cppflags"
 x_minus="";
elif echo 'Nixed again...maybe "'$cpp' -" will work...'; \
 $cpp - <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Hooray, it works!  I was beginning to wonder."
 x_cpp="$cpp $cppflags"
 x_minus='-';
elif echo 'Uh-uh.  Time to get fancy.  Trying a wrapper...'; \
 $wrapper <testcpp.c >testcpp.out 2>&1; \
 $contains
 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 x_cpp="$wrapper"
 x_minus="
 echo "Eureka!"
else
 dflt="
 rp="No dice.  I can't find a C preprocessor.  Name one:"
 . ./myread
```

```
 x_cpp="$ans"
 x_minus=''
 $x_cpp <testcpp.c >testcpp.out 2>&1
 if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
  echo "OK, that will do." >&4
 else
echo "Sorry, I can't get that to work.  Go find one and rerun Configure." >&4
  exit 1
 fi
fi

case "$ok" in
false)
 cppstdin="$x_cpp"
 cppminus="$x_minus"
 cpprun="$x_cpp"
 cpplast="$x_minus"
?X:
?X: If /lib/cpp is used, try using a wrapper to increase our chances to have
?X: the C compiler and our $cppstdin agree on the same symbols... However,
?X: since cpprun is guaranteed not to be a wrapper, we must clear it if the
?X: only preprocessor we found was a wrapper, with all our luck...
?X:
 set X $x_cpp
 shift
 case "$1" in
 "$cpp")
  echo "Perhaps can we force $cc -E using a wrapper..."
  if $wrapper <testcpp.c >testcpp.out 2>&1; \
   $contains 'abc.*xyz'
 testcpp.out >/dev/null 2>&1
  then
   echo "Yup, we can."
   cppstdin="$wrapper"
   cppminus=';
  else
   echo "Nope, we'll have to live without it..."
  fi
  ;;
 esac
 case "$cpprun" in
 "$wrapper")
  cpprun=''
  cpplast=''
  ;;
 esac
 ;;
esac
```

```
case "$cppstdin" in
"$wrapper"|'cppstdin') ;;
*) $rm -f $wrapper;;
esac
$rm -f testcpp.c testcpp.out
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/cppstdin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_mblen.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_mblen.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:09:40  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_mblen: Inlibc
?MAKE: -pick add $@ %<
?S:d_mblen:
?S: This variable conditionally defines the HAS_MBLEN symbol, which
?S: indicates to the C program that the mblen() routine is available
?S: to find the number of bytes in a multibyte character.
?S:.
?C:HAS_MBLEN:
?C: This
 symbol, if defined, indicates that the mblen routine is available
?C: to find the number of bytes in a multibyte character.
?C:.
?H:#$d_mblen HAS_MBLEN  /**/
?H:.
?LINT:set d_mblen
: see if mblen exists
set mblen d_mblen
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_mblen.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2014, H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_dladdr.U,v $
?RCS:
?MAKE:d_dladdr: Inlibc
?MAKE: -pick add $@ %<
?S:d_dladdr:
?S: This variable conditionally defines the HAS_DLADDR symbol, which
?S: indicates to the C program that the dladdr() routine is available
?S: to get a stack trace.
?S:.
?C:HAS_DLADDR:
?C: This symbol, if defined, indicates that the dladdr() routine is
?C: available to query dynamic linker information for an address.
?C: The <dlfcn.h> header must be included to use this routine.
?C:.
?H:#$d_dladdr HAS_DLADDR /**/
?H:.
?LINT:set d_dladdr
:
 see if dladdr exists
set dladdr d_dladdr
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_dladdr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_expm1: Inlibc
?MAKE: -pick add $@ %<
?S:d_expm1:
?S: This variable conditionally defines the HAS_EXPM1 symbol, which
```

```
?S: indicates to the C program that the expm1() routine is available.
?S:.
?C:HAS_EXPM1:
?C: This symbol, if defined, indicates that the expm1 routine is
?C: available to do the exp(x) - 1 when x is near 1 function.
?C:.
?H:#$d_expm1 HAS_EXPM1  /**/
?H:.
?LINT:set d_expm1
: see if expm1 exists
set expm1 d_expm1
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_expm1.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strdup.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strdup.U,v $
?RCS: Revision 3.0.1.1  1993/12/15  08:21:41  ram
?RCS: patch15: created
?RCS:
?MAKE:d_strdup: Inlibc
?MAKE: -pick add $@ %<
?S:d_strdup:
?S: This variable conditionally defines HAS_STRDUP if strdup() is
?S: available to duplicate strings in memory.
?S:.
?C:HAS_STRDUP:
?C: This symbol, if defined, indicates that the strdup routine is
?C: available to duplicate strings in memory. Otherwise, roll up
?C: your own...
?C:.
?H:#$d_strdup HAS_STRDUP  /**/
?H:.
?LINT:set
 d_strdup
: see if strdup exists
```

```
set strdup d_strdup
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strdup.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Cppsym.U,v 3.0.1.5 1995/05/12 11:59:11 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Cppsym.U,v $
?RCS: Revision 3.0.1.5  1995/05/12  11:59:11  ram
?RCS: patch54: split awk command onto two lines for older awk's (ADO)
?RCS:
?RCS: Revision 3.0.1.4  1995/01/11  14:55:57  ram
?RCS: patch45: new cc vs. cpp symbol checking suggested by JHI
?RCS: patch45: added more cpp symbols (JHI)
?RCS:
?RCS: Revision 3.0.1.3  1994/10/29  15:51:32  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: new symbols ardent and titan (ADO)
?RCS:
?RCS:
 Revision 3.0.1.2  1994/06/20  06:53:32  ram
?RCS: patch30: extended cpp symbol lookup list (JHI)
?RCS: patch30: renamed attrlist symbol into al for brevity
?RCS:
?RCS: Revision 3.0.1.1  1993/12/15  08:14:14  ram
?RCS: patch15: added new cpp symbols __bsdi__ and BSD_NET2
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X: This unit produces a shell script called Cppsym, which can be used to
?X: determine whether any in a list of symbols is defined by the C compilation
?X: chain (C preprocessor symbols plus C compiler native ones).
?X: It can determine the status of any symbol, though the symbols in $al
?X: are more easily determined.  If you want to add to $al you can do
?X: it in Myinit.U.
?MAKE:Cppsym ccsymbols cppsymbols cppccsymbols: run \
```

```
 eunicefix Guess awk cat tr sed sort rm rm_try startsh osname \
 +cc +gccversion test comm uniq echo Options trnl \
 optimize ccflags ldflags libs cpp_stuff cpp
?MAKE: -pick add $@ %<
?T:also
 symbols i postprocess_cc_v tHdrH
?X:
?X: The symbol list is in alpha order for ease of maintenance...
?X:
?X: Lots of new symbols (mostly rummaged from gcc), courtesy of
?X: Jarkko Hietaniemi <jhi@snakemail.hut.fi> -- RAM, 06/06/94
?X:
?S:ccsymbols:
?S: The variable contains the symbols defined by the C compiler alone.
?S: The symbols defined by cpp or by cc when it calls cpp are not in
?S: this list, see cppsymbols and cppccsymbols.
?S: The list is a space-separated list of symbol=value tokens.
?S:.
?S:cppsymbols:
?S: The variable contains the symbols defined by the C preprocessor
?S: alone.  The symbols defined by cc or by cc when it calls cpp are
?S: not in this list, see ccsymbols and cppccsymbols.
?S: The list is a space-separated list of symbol=value tokens.
?S:.
?S:cppccsymbols:
?S: The variable contains the symbols defined by the C compiler
?S: when it calls cpp.  The symbols defined by the cc alone or cpp
?S: alone are not in this list, see ccsymbols and cppsymbols.
?S: The
 list is a space-separated list of symbol=value tokens.
?S:.
?F:./Cppsym
?F:./Cppsym.know
?F:!Cppsym.true
?F:!ccsym.com
?F:!ccsym.cpp
?F:!ccsym.own
?X: fake LINT hints
?LINT:change ccflags
?LINT:extern s
?LINT:extern s__
: Preprocessor symbols
echo " "
$echo "Guessing which symbols your C compiler and preprocessor define..." >&4
?X: If your symbol is mixed case, just add it as-is.
?X: All symbols will be transformed to both all-lower and all-upper.
?X: Also drop any leading/trailing underscores, the scan will try all those.
$cat <<'EOSH' > Cppsym.know
```

a29k aarch64 ABI64 aegis AES_SOURCE AIX AIX32 AIX370 AIX41 AIX42
AIX43 aixpc AIX_SOURCE alliant ALL_SOURCE alpha AM29000 am29000
AMD64 amd64 amiga AMIGAOS AMIX ansi ANSI_C_SOURCE apollo arch_ppc
arch_pwr ardent ARM ARM32 atarist att386 att3b
BeOS BIG_ENDIAN BIT_MSF BSD bsd bsd43 bsd4_2 BSD4_3 bsd4_3 bsd4_4
BSDCOMPAT bsdi BSD_4_3 BSD_4_4 BSD_NET2 BSD_TIME BSD_TYPES bull
byteorder byte_order
c cadmus clang clipper CMU COFF COMPILER_VERSION
concurrent
convex cpu CRAY cray CRAYMPP ctix CX_UX CYGWIN
DECC DGUX DGUX_SOURCE DJGPP dmert DOLPHIN DPX2 DSO Dynix DynixPTX
ELF encore EPI EXTENSIONS
FAVOR_BSD FILE_OFFSET_BITS FORTIFY_SOURCE FreeBSD
GCC_NEW_VARARGS gcos gcx gimpel GLIBC GLIBC_MINOR GNUC GNUC_MINOR
GNU_LIBRARY GNU_SOURCE GO32 gould GOULD_PN
H3050R H3050RX hbullx20 hcx host_mips hp200 hp300 HP700 hp700
hp800 hp9000 hp9000s200 hp9000s300 hp9000s400
hp9000s700 hp9000s800 hp9k8 hppa hpux HPUX_SOURCE hp_osf
i186 i286 i386 i486 i586 i686 i8086 i80960 i860 I960 IA32 IA64
iAPX286 ibm ibm032 ibmesa IBMR2 ibmrt ILP32 ILP64
INLINE_INTRINSICS INT64 INTEL interdata INTRINSICS is68k itanium
ksr1
LANGUAGE_C LARGEFILE64_SOURCE LARGEFILE_SOURCE LARGE_FILE_API
LFS64_LARGEFILE LFS_LARGEFILE LIBCATAMOUNT Linux LITTLE_ENDIAN
LONG64 LONGDOUBLE LONGLONG LONG_DOUBLE LONG_LONG LP64 luna
luna88k Lynx
M68000 m68k m88100 m88k M88KBCS_TARGET MACH machine MachTen
MATH_HAS_NO_SIDE_EFFECTS mc300 mc500 mc68000 mc68010 mc68020
mc68030 mc68040 mc68060
mc68k mc68k32 mc700 mc88000 mc88100
merlin mert MiNT mips MIPSEB MIPSEL MIPS_FPSET MIPS_ISA MIPS_SIM
MIPS_SZINT MIPS_SZLONG MIPS_SZPTR MODERN_C motorola MSDOS
MTXINU MULTIMAX MVS mvs M_AMD64 M_ARM M_ARMT M_COFF M_I186 M_I286
M_I386 M_I8086 M_I86 M_I86SM M_IA64 M_IX86 M_PPC M_SYS3 M_SYS5
M_SYSIII M_SYSV M_UNIX M_X86 M_XENIX
n16 ncl_el ncl_mr NetBSD news1500 news1700 news1800 news1900
news3700 news700 news800 news900 NeXT NLS nonstopux ns16000
ns32000 ns32016 ns32332 ns32k nsc32000
OCS88 OEMVS OpenBSD os OS2 OS390 osf OSF1 OSF_SOURCE
PARAGON parisc pa_risc PA_RISC1_1 PA_RISC2_0 pc532 pdp11 PGC PIC
plexus PORTAR posix POSIX1B_SOURCE POSIX2_SOURCE POSIX4_SOURCE
POSIX_C_SOURCE POSIX_SOURCE POWER powerpc ppc PROTOTYPES PWB pyr
QK_USER QNX
R3000 REENTRANT RES Rhapsody RISC6000 riscix riscos RT
S390 S390x SA110 SCO scs sequent sgi SGI_SOURCE SH SH3 sinix
SIZE_INT SIZE_LONG SIZE_PTR SOCKETS_SOURCE SOCKET_SOURCE sony
sonyrisc sony_news sparc sparclite sparcv8 sparcv9 spectrum
stardent stdc

```
 STDC_EXT stratos sun sun3 sun386 Sun386i svr3 svr4
SVR4_2 SVR4_SOURCE svr5 SX system SYSTYPE_BSD SYSTYPE_BSD43
SYSTYPE_BSD44 SYSTYPE_SVR4 SYSTYPE_SVR5 SYSTYPE_SYSV SYSV SYSV3
SYSV4 SYSV5 sysV68 sysV88
Tek4132 Tek4300 thumb thw_370 thw_intel thw_rs6000 titan TM3200
TM5400 TM5600 tower tower32 tower32_200 tower32_600 tower32_700
tower32_800 tower32_850 tss
u370 u3b u3b2 u3b20 u3b200 u3b20d u3b5 ultrix UMAXV UnicomPBB
UnicomPBD UNICOS UNICOSMK unix UNIX95 UNIX99 unixpc unos USE_BSD
USE_FILE_OFFSET64 USE_GNU USE_ISOC9X USE_LARGEFILE
USE_LARGEFILE64 USE_MISC USE_POSIX USE_POSIX199309
USE_POSIX199506 USE_POSIX2 USE_REENTRANT USE_SVID USE_UNIX98
USE_XOPEN USE_XOPEN_EXTENDED USGr4 USGr4_2 UTek Utek UTS UWIN
uxpm uxps
vax venix VMESA vms
x86_64 xenix Xenix286 XOPEN_SOURCE XOPEN_SOURCE_EXTENDED XPG2
XPG2_EXTENDED XPG3 XPG3_EXTENDED XPG4 XPG4_EXTENDED
z8000 zarch
EOSH
# Maybe put other stuff here too.
?X:Some OS's will have a dash in their $osname
?X:e.g. Android is known as linux-android
?X:The
 preprocessor will interpret the dash as a minus
./tr '-' '_' <<EOSH >>Cppsym.know
$osname
EOSH
./tr '[a-z]' '[A-Z]' < Cppsym.know > Cppsym.a
./tr '[A-Z]' '[a-z]' < Cppsym.know > Cppsym.b
$cat Cppsym.know > Cppsym.c
$cat Cppsym.a Cppsym.b Cppsym.c | $tr ' ' $trnl | $sort | $uniq > Cppsym.know
$rm -f Cppsym.a Cppsym.b Cppsym.c
cat <<EOSH > Cppsym
$startsh
if $test \$# -gt 0; then
   echo \$* | $tr " " "$trnl" | ./Cppsym.try > Cppsym.got
   if $test -s Cppsym.got; then
 $rm -f Cppsym.got
 exit 0
   fi
   $rm -f Cppsym.got
   exit 1
else
   $tr " " "$trnl" | ./Cppsym.try
   exit 0
fi
EOSH
chmod +x Cppsym
```

```
$eunicefix Cppsym
?X: The below awk script will die a horrible death if
?X: some of the tested symbols are not long ints.
?X: Also, we do not make difference between just defined and defined zero.
cat <<EOSH > Cppsym.try
$startsh
cat <<'EOCP' > try.c
#include <stdio.h>
#if cpp_stuff == 1
#define STRINGIFY(a)    "a"
#endif
#if cpp_stuff == 42
#define StGiFy(a)  #a
#define STRINGIFY(a)
    StGiFy(a)
#endif
#if $cpp_stuff != 1 && $cpp_stuff != 42
#   include "Bletch: How does this C preprocessor stringify macros?"
#endif
int main() {
EOCP
?X: The length($1) command guards against possible empty entries.
?X: The awk snippet is know to give heartburn to UNICOS/mk awk.
$awk \\
EOSH
cat <<'EOSH' >> Cppsym.try
'length($1) > 0 {
   printf "#ifdef %s\nprintf(\"%s=%%s\\n\", STRINGIFY(%s));\n#endif\n", $1, $1, $1
   printf "#ifdef _%s\nprintf(\"_%s=%%s\\n\", STRINGIFY(_%s));\n#endif\n", $1, $1, $1
   printf "#ifdef __%s\nprintf(\"__%s=%%s\\n\", STRINGIFY(__%s));\n#endif\n", $1, $1, $1
   printf "#ifdef __%s__\nprintf(\"__%s__=%%s\\n\", STRINGIFY(__%s__));\n#endif\n", $1, $1, $1
}' >> try.c
echo 'return 0;}' >> try.c
EOSH
cat <<EOSH >> Cppsym.try
ccflags="$ccflags"
case "$osname-$gccversion" in
irix-) ccflags="\$ccflags -woff 1178" ;;
os2-*) ccflags="\$ccflags -Zlinker /PM:VIO" ;;
esac
$cc -o try -Dcpp_stuff=$cpp_stuff $optimize \$ccflags $ldflags try.c $libs 2>/dev/null
 && $run ./try | $sed 's/ /\\\\ /g'
EOSH
chmod +x Cppsym.try
$eunicefix Cppsym.try
./Cppsym < Cppsym.know | $sort | $uniq > Cppsym.true
: Add in any Linux cpp "predefined macros":
case "$osname::$gccversion" in
```

```
 *linux*::*.*|*gnukfreebsd*::*.*|gnu::*.*)
   tHdrH=_tmpHdr
   rm -f $tHdrH'.h' $tHdrH
   touch $tHdrH'.h'
   # Filter out macro arguments, such as Linux's __INT8_C(c)
   if $cpp -dM $tHdrH'.h' > $tHdrH'_cppsym.h' && [ -s $tHdrH'_cppsym.h' ]; then
      sed -e 's/#define[\ \  ]*//;s/[\ \      ].*$//' -e 's/(.*//' <$tHdrH'_cppsym.h' >$tHdrH'_cppsym.real'
      if [ -s $tHdrH'_cppsym.real' ]; then
   cat $tHdrH'_cppsym.real' Cppsym.know | sort | uniq | ./Cppsym | sort | uniq > Cppsym.true
      fi
   fi
   rm -f $tHdrH'.h' $tHdrH'_cppsym.h' $tHdrH'_cppsym.real'
 ;;
esac
: now check the C compiler for additional symbols
?X: suggested by Jarkko Hietaniemi <jhi@snakemail.hut.fi>, thanks!
postprocess_cc_v="
case "$osname" in
aix) postprocess_cc_v="|$tr , ' '" ;;
esac
$cat >ccsym
 <<EOS
$startsh
$cat >tmp.c <<EOF
extern int foo;
EOF
for i in \`$cc -v -c tmp.c 2>&1 $postprocess_cc_v\`
do
 case "\$i" in
 -D*) echo "\$i" | $sed 's/^-D//';;
 -A*) $test "$gccversion" && echo "\$i" | $sed 's/^-A//' | $sed 's/\(.*\)(\(.*\))/\1=\2/';;
 esac
done
$rm_try
EOS
postprocess_cc_v="
chmod +x ccsym
$eunicefix ccsym
./ccsym > ccsym1.raw
?X: AIX complains if $uniq is passed an empty file.  ($sort apparently
?X: doesn't care.)  --AD  14 July 1998
if $test -s ccsym1.raw; then
   $sort ccsym1.raw | $uniq >ccsym.raw
else
   mv ccsym1.raw ccsym.raw
fi

?X: canonicalize symbols for easier sort/uniq/comm usage: append =1 if no = sign
```

```
?X: the awk script must be on two lines for older awk programs, sigh! -- ADO
$awk '/\=/ { print $0; next }
 { print $0"=1" }' ccsym.raw >ccsym.list
$comm -13 Cppsym.true ccsym.list >ccsym.own
$comm -12 Cppsym.true ccsym.list >ccsym.com
$comm -23 Cppsym.true ccsym.list >ccsym.cpp
also=''
if $test -z ccsym.raw; then
 echo "Your C compiler doesn't seem
 to define any symbols!" >&4
 echo " "
 echo "However, your C preprocessor defines the following symbols:"
 $cat Cppsym.true
 ccsymbols=''
 cppsymbols=`$cat Cppsym.true`
 cppsymbols=`echo $cppsymbols`
 cppccsymbols="$cppsymbols"
else
 if $test -s ccsym.com; then
  echo "Your C compiler and pre-processor define these symbols:"
  $sed -e 's/\(..*\)=.*/\1/' ccsym.com
  also='also '
  symbols='ones'
  cppccsymbols=`$cat ccsym.com`
  cppccsymbols=`echo $cppccsymbols`
  $test "$silent" || sleep 1
 fi
 if $test -s ccsym.cpp; then
  $test "$also" && echo " "
  echo "Your C pre-processor ${also}defines the following symbols:"
  $sed -e 's/\(..*\)=.*/\1/' ccsym.cpp
  also='further '
  cppsymbols=`$cat ccsym.cpp`
  cppsymbols=`echo $cppsymbols`
  $test "$silent" || sleep 1
 fi
 if $test -s ccsym.own; then
  $test "$also" && echo " "
  echo "Your C compiler ${also}defines the following cpp symbols:"
  $sed -e 's/\(..*\)=1/\1/' ccsym.own
  $sed -e 's/\(..*\)=.*/\1/' ccsym.own | $uniq >>Cppsym.true
  ccsymbols=`$cat
 ccsym.own`
  ccsymbols=`echo $ccsymbols`
  $test "$silent" || sleep 1
 fi
fi
```

```
: add -D_FORTIFY_SOURCE if feasible and not already there
case "$gccversion" in
[456789].*|[1-9][0-9]*) case "$optimize$ccflags" in
 *-O*) case "$ccflags$cppsymbols" in
  *_FORTIFY_SOURCE=*) # Don't add it again.
   echo "You seem to have -D_FORTIFY_SOURCE already, not adding it." >&4
   ;;
  *) echo "Adding -D_FORTIFY_SOURCE=2 to ccflags..." >&4
   ccflags="$ccflags -D_FORTIFY_SOURCE=2"
   ;;
  esac
  ;;
 *) echo "You have gcc 4.* or later but not optimizing, not adding -D_FORTIFY_SOURCE." >&4
  ;;
 esac
 ;;
*) echo "You seem not to have gcc 4.* or later, not adding -D_FORTIFY_SOURCE." >&4
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Cppsym.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2009 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_inetntop: Inlibc
?MAKE: -pick add $@ %<
?S:d_inetntop:
?S: This variable conditionally defines the HAS_INETNTOP symbol,
?S: which indicates to the C program that the inet_ntop() function
?S: is available.
?S:.
?C:HAS_INETNTOP:
?C: This symbol, if defined, indicates that the inet_ntop() function
?C: is available to parse IPv4 and IPv6 strings.
?C:.
?H:#$d_inetntop HAS_INETNTOP  /**/
?H:.
?LINT:set d_inetntop
: see if inet_ntop exists
set inet_ntop d_inetntop
```

```
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_inetntop.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_preadv.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_preadv.U,v $
?RCS:
?MAKE:d_preadv: Inlibc
?MAKE: -pick add $@ %<
?S:d_preadv:
?S: This variable conditionally defines the HAS_PREADV symbol, which
?S: indicates to the C program that the preadv() routine is available.
?S:.
?C:HAS_PREADV :
?C: This symbol, if defined, indicates that the preadv routine is
?C: available to perform vectored reads on a file descriptor at a
?C: given offset.
?C:.
?H:#$d_preadv HAS_PREADV  /**/
?H:.
?LINT:set d_preadv
:
 see if preadv exists
set preadv d_preadv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_preadv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_longdbl.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_longdbl.U,v $
?RCS:
?MAKE:d_longdbl longdblsize d_ldexpl longdblkind \
 d_long_double_style_ieee d_long_double_style_ieee_doubledouble \
 d_long_double_style_ieee_extended d_long_double_style_ieee_std \
 d_long_double_style_vax: Compile Setvar Myread \
 Inlibc run echo cat rm_try test doublesize i_stdlib
?MAKE: -pick add $@ %<
?S:d_longdbl:
?S: This variable conditionally defines HAS_LONG_DOUBLE if
?S: the long double type is supported.
?S:.
?S:d_ldexpl:
?S: This variable conditionally defines the HAS_LDEXPL symbol, which
?S: indicates to the C program that the ldexpl() routine is available.
?S:.
?S:longdblsize:
?S: This variable contains the value of the LONG_DOUBLESIZE symbol,
 which
?S: indicates to the C program how many bytes there are in a long double,
?S: if this system supports long doubles.  Note that this is
?S: sizeof(long double), which may include unused bytes.
?S:.
?S:longdblkind:
?S: This variable, if defined, encodes the type of a long double:
?S:  0 = double,
?S:  1 = IEEE 754 128-bit little endian,
?S:  2 = IEEE 754 128-bit big endian,
?S:  3 = x86 80-bit little endian,
?S:  4 = x86 80-bit big endian,
?S:  5 = double-double 128-bit little endian,
?S:  6 = double-double 128-bit big endian,
?S:  7 = 128-bit mixed-endian double-double (64-bit LEs in BE),
?S:  8 = 128-bit mixed-endian double-double (64-bit BEs in LE),
?S:  9 = 128-bit PDP-style mixed-endian long doubles,
?S: -1 = unknown format.
?S:.
?S:d_long_double_style_ieee:
?S: This variable conditionally defines LONG_DOUBLE_STYLE_IEEE
?S: if the long double is any of the IEEE 754 style long doubles:
?S: LONG_DOUBLE_STYLE_IEEE_STD, LONG_DOUBLE_STYLE_IEEE_EXTENDED,
?S: LONG_DOUBLE_STYLE_IEEE_DOUBLEDOUBLE.
?S:.
?S:d_long_double_style_ieee_doubledouble:
?S: This
```

variable conditionally defines LONG_DOUBLE_STYLE_IEEE_DOUBLEDOUBLE
?S: if the long double is the 128-bit IEEE 754 double-double.
?S:.
?S:d_long_double_style_ieee_extended:
?S: This variable conditionally defines LONG_DOUBLE_STYLE_IEEE_EXTENDED
?S: if the long double is the 80-bit IEEE 754 extended precision.
?S: Note that despite the 'extended' this is less than the 'std',
?S: since this is an extension of the double precision.
?S:.
?S:d_long_double_style_ieee_std:
?S: This variable conditionally defines LONG_DOUBLE_STYLE_IEEE_STD
?S: if the long double is the 128-bit IEEE 754.
?S:.
?S:d_long_double_style_vax:
?S: This variable conditionally defines LONG_DOUBLE_STYLE_VAX
?S: if the long double is the 128-bit VAX format H.
?S:.
?C:HAS_LONG_DOUBLE:
?C: This symbol will be defined if the C compiler supports long
?C: doubles.
?C:.
?C:LONG_DOUBLESIZE:
?C: This symbol contains the size of a long double, so that the
?C: C
preprocessor can make decisions based on it. It is only
?C: defined if the system supports long doubles. Note that this
?C: is sizeof(long double), which may include unused bytes.
?C:.
?C:HAS_LDEXPL:
?C: This symbol, if defined, indicates that the ldexpl routine is
?C: available to shift a long double floating-point number
?C: by an integral power of 2.
?C:.
?C:LONG_DOUBLEKIND:
?C: LONG_DOUBLEKIND will be one of
?C: LONG_DOUBLE_IS_DOUBLE
?C: LONG_DOUBLE_IS_IEEE_754_128_BIT_LITTLE_ENDIAN
?C: LONG_DOUBLE_IS_IEEE_754_128_BIT_BIG_ENDIAN
?C: LONG_DOUBLE_IS_X86_80_BIT_LITTLE_ENDIAN
?C: LONG_DOUBLE_IS_X86_80_BIT_BIG_ENDIAN
?C: LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_LE
?C: LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_BE
?C: LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_BE
?C: LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_LE
?C: LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LITTLE_ENDIAN
?C: LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BIG_ENDIAN
?C: LONG_DOUBLE_IS_VAX_H_FLOAT
?C: LONG_DOUBLE_IS_UNKNOWN_FORMAT

```
?C: It is only defined
 if the system supports long doubles.
?C:.
?C:LONG_DOUBLE_STYLE_IEEE:
?C: This symbol, if defined, indicates that the long double
?C: is any of the IEEE 754 style long doubles:
?C: LONG_DOUBLE_STYLE_IEEE_STD, LONG_DOUBLE_STYLE_IEEE_EXTENDED,
?C: LONG_DOUBLE_STYLE_IEEE_DOUBLEDOUBLE.
?C:.
?C:LONG_DOUBLE_STYLE_IEEE_DOUBLEDOUBLE:
?C: This symbol, if defined, indicates that the long double is
?C: the 128-bit double-double.
?C:.
?C:LONG_DOUBLE_STYLE_IEEE_EXTENDED:
?C: This symbol, if defined, indicates that the long double is
?C: the 80-bit IEEE 754. Note that despite the 'extended' this
?C: is less than the 'std', since this is an extension of
?C: the double precision.
?C:.
?C:LONG_DOUBLE_STYLE_IEEE_STD:
?C: This symbol, if defined, indicates that the long double is
?C: the 128-bit IEEE 754.
?C:.
?C:LONG_DOUBLE_STYLE_VAX:
?C: This symbol, if defined, indicates that the long double is
?C: the 128-bit VAX format H.
?C:.
?H:#$d_ldexpl  HAS_LDEXPL  /**/
?H:#$d_longdbl HAS_LONG_DOUBLE  /**/
?H:?LONG_DOUBLESIZE:#ifdef
 HAS_LONG_DOUBLE
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLESIZE $longdblsize  /**/
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLEKIND $longdblkind  /**/
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLE    0
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_IEEE_754_128_BIT_LITTLE_ENDIAN 1
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_IEEE_754_128_BIT_BIG_ENDIAN 2
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_X86_80_BIT_LITTLE_ENDIAN  3
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_X86_80_BIT_BIG_ENDIAN  4
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_LE 5
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_BE 6
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_BE 7
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_LE 8
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_VAX_H_FLOAT   9
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_UNKNOWN_FORMAT   -1
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LITTLE_ENDIAN
LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_LE
 /* back-compat */
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BIG_ENDIAN
```

```
LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_BE /* back-compat */
?H:?LONG_DOUBLESIZE:#$d_long_double_style_ieee LONG_DOUBLE_STYLE_IEEE
?H:?LONG_DOUBLESIZE:#$d_long_double_style_ieee_doubledouble
LONG_DOUBLE_STYLE_IEEE_DOUBLEDOUBLE
?H:?LONG_DOUBLESIZE:#$d_long_double_style_ieee_extended
LONG_DOUBLE_STYLE_IEEE_EXTENDED
?H:?LONG_DOUBLESIZE:#$d_long_double_style_ieee_std LONG_DOUBLE_STYLE_IEEE_STD
?H:?LONG_DOUBLESIZE:#$d_long_double_style_vax LONG_DOUBLE_STYLE_VAX
?H:?LONG_DOUBLESIZE:#endif
?H:.
?F:!try
?LINT:known LONG_DOUBLE_IS_DOUBLE LONG_DOUBLE_IS_IEEE_754_128_BIT_LITTLE_ENDIAN
?LINT:known LONG_DOUBLE_IS_IEEE_754_128_BIT_BIG_ENDIAN
LONG_DOUBLE_IS_X86_80_BIT_LITTLE_ENDIAN
?LINT:known LONG_DOUBLE_IS_X86_80_BIT_BIG_ENDIAN
LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LITTLE_ENDIAN
?LINT:known LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BIG_ENDIAN
LONG_DOUBLE_IS_UNKNOWN_FORMAT
?LINT:known
 LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_LE
?LINT:known LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_BE
?LINT:known LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_BE
?LINT:known LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_LE
?LINT:known LONG_DOUBLE_IS_VAX_H_FLOAT
?LINT:set d_longdbl
?LINT:set d_ldexpl
: check for long doubles
echo " " >&4
echo "Checking to see if you have long double..." >&4
echo 'int main() { long double x = 7.0; }' > try.c
set try
if eval $compile; then
 val="$define"
 echo "You have long double." >&4
else
 val="$undef"
 echo "You do not have long double." >&4
fi
$rm_try
set d_longdbl
eval $setvar

: see if ldexpl exists
set ldexpl d_ldexpl
eval $inlibc

@if LONG_DOUBLESIZE || longdblsize
: check for length of long double
```

```
?X:  Check only if d_longdbl and if longdblsize is not already set.
case "${d_longdbl}${longdblsize}" in
$define)
 echo " " >&4
 echo "Checking to see how big your long doubles are..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
 printf("%d\n", sizeof(long
 double));
}
EOCP
 set try
?X: Don't use compile_ok because some compilers warn you that they have
?X: 'long double' as just 'double'.
 set try
 if eval $compile; then
  longdblsize=`$run ./try`
  echo "Your long doubles are $longdblsize bytes long." >&4
 else
  dflt='8'
  echo " " >&4
  echo "(I can't seem to compile the test program.  Guessing...)" >&4
  rp="What is the size of a long double (in bytes)?"
  . ./myread
  longdblsize="$ans"
 fi
 if $test "X$doublesize" = "X$longdblsize"; then
  echo "That isn't any different from an ordinary double." >&4
  echo "I'll keep your setting anyway, but you may see some" >&4
  echo "harmless compilation warnings." >&4
 fi
 ;;
esac
$rm_try
@end

$echo "Checking the kind of long doubles you have..." >&4
case "$d_longdbl" in
define)
$cat <<EOP >try.c
#$i_stdlib I_STDLIB
#define LONGDBLSIZE $longdblsize
#define DOUBLESIZE $doublesize
#include <float.h>
#ifdef I_STDLIB
#include <stdlib.h>
```

```
#endif
#include <stdio.h>
static const long double
 d = -0.1L;
int main() {
 unsigned const char* b = (unsigned const char*)(&d);
#if DOUBLESIZE == LONGDBLSIZE
 printf("0\n"); /* if it floats like double */
 exit(0);
#endif
#if (LDBL_MANT_DIG == 113 || FLT128_MANT_DIG == 113) && LONGDBLSIZE == 16
 if (b[0] == 0x9A && b[1] == 0x99 && b[15] == 0xBF) {
   /* IEEE 754 128-bit little-endian */
   printf("1\n");
   exit(0);
 }
 if (b[0] == 0xBF && b[14] == 0x99 && b[15] == 0x9A) {
   /* IEEE 128-bit big-endian, e.g. solaris sparc */
   printf("2\n");
   exit(0);
 }
#endif
/* For alignment 32-bit platforms have the 80 bits in 12 bytes,
* while 64-bits platforms have it in 16 bytes.  The trailing bytes
* cannot be trusted. */
#if LDBL_MANT_DIG == 64 && (LONGDBLSIZE == 16 || LONGDBLSIZE == 12)
 if (b[0] == 0xCD && b[9] == 0xBF) {
   /* x86 80-bit little-endian, sizeof 12 (ILP32, Solaris x86)
    * or 16 (LP64, Linux and OS X), 4 or 6 bytes of padding.
    * Also known as "extended precision". */
   printf("3\n");
   exit(0);
  }
 if (b[0] == 0xBF && b[9] == 0xCD) {
   /* Is there ever big-endian 80-bit, really?
    *
    * The Motorola 68881 had another "extended precision" format:
    * sign:1 exp:15 zero:16 integer:1 mantissa:63
    * for total of 96 bits of bytes.  The zero bits were unused.
    * See "M68000 FAMILY PROGRAMMER'S REFERENCE MANUAL" for more details.
    * If it ever becomes relevant, this format should be allocated a
    * new doublekind code since it is quite different from the Intel x87.
    */
   printf("4\n");
   exit(0);
 }
#endif
#if (LDBL_MANT_DIG == 106 || LDBL_MANT_DIG == 107) && LONGDBLSIZE == 16
```

```
 /* software "double double", the 106 is 53+53.
  * but irix thinks it is 107. */
 if (b[0] == 0x9A && b[7] == 0x3C && b[8] == 0x9A && b[15] == 0xBF) {
   /* double double 128-bit fully little-endian,
    * little-endian doubles in little-endian order,
    * 9a 99 99 99 99 99 59 3c 9a 99 99 99 99 99 b9 bf */
   printf("5\n");
   exit(0);
 }
 if (b[0] == 0xBF && b[7]
 == 0x9A && b[8] == 0x3C && b[15] == 0x9A) {
   /* double double 128-bit fully big-endian,
    * big-endian doubles in big-endian order,
    * e.g. PPC/Power and MIPS:
    * bf b9 99 99 99 99 99 9a 3c 59 99 99 99 99 99 9a */
   printf("6\n");
   exit(0);
 }
 if (b[0] == 0x9A && b[7] == 0xBF && b[8] == 0x9A && b[15] == 0x3C) {
   /* double double 128-bit mixed endian.
    * little-endian doubles in big-endian order,
    * e.g. ppc64el,
    * 9a 99 99 99 99 99 b9 bf 9a 99 99 99 99 99 59 3c */
   printf("7\n");
   exit(0);
 }
 if (b[0] == 0x3C && b[7] == 0x9A && b[8] == 0xBF && b[15] == 0x9A) {
   /* double double 128-bit mixed endian,
    * big-endian doubles in little-endian order,
    * 3c 59 99 99 99 99 99 9a bf b9 99 99 99 99 99 9a */
   printf("8\n");
   exit(0);
 }
#endif
/* We are largely making this up because it may well be
* that the VAX format H was never made available to C,
* only to Fortran. */
#if LONGDBLSIZE == 16 && defined(__vax__)
 if (b[0]
 == 0xFD && b[15] == 0x99) {
   /* VAX format H, PDP-11 mixed endian. */
   printf("9\n");
   exit(0);
 }
#endif
 printf("-1\n"); /* unknown */
 exit(0);
}
```

```
EOP
set try
if eval $compile; then
   longdblkind=`$run ./try`
else
   longdblkind=-1
fi
;;
*) longdblkind=0 ;;
esac
case "$longdblkind" in
0) echo "Your long doubles are doubles." >&4 ;;
1) echo "You have IEEE 754 128-bit little endian long doubles." >&4 ;;
2) echo "You have IEEE 754 128-bit big endian long doubles." >&4 ;;
3) echo "You have x86 80-bit little endian long doubles." >&4 ;;
4) echo "You have x86 80-bit big endian long doubles." >&4 ;;
5) echo "You have 128-bit fully little-endian double-double long doubles (64-bit LEs in LE)." >&4 ;;
6) echo "You have 128-bit fully big-endian double-double long doubles (64-bit BEs in BE)." >&4 ;;
7) echo "You have 128-bit mixed-endian double-double long doubles (64-bit LEs in BE)." >&4 ;;
8) echo "You have 128-bit mixed-endian double-double long doubles (64-bit BEs in LE)." >&4
 ;;
9) echo "You have 128-bit PDP-style mixed-endian long doubles (VAX format H)." >&4 ;;
*) echo "Cannot figure out your long double." >&4 ;;
esac
d_long_double_style_ieee=$undef
d_long_double_style_ieee_std=$undef
d_long_double_style_ieee_extended=$undef
d_long_double_style_ieee_doubledouble=$undef
d_long_double_style_vax=$undef
case "$longdblkind" in
1|2|3|4|5|6|7|8) d_long_double_style_ieee=$define ;;
esac
case "$longdblkind" in
1|2) d_long_double_style_ieee_std=$define ;;
esac
case "$longdblkind" in
3|4) d_long_double_style_ieee_extended=$define ;;
esac
case "$longdblkind" in
5|6|7|8) d_long_double_style_ieee_doubledouble=$define ;;
esac
case "$longdblkind" in
9) d_long_double_style_vax=$define ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/modified/d_longdbl.U
No license file was found, but licenses were detected in source scan.

Perl5 Metaconfig Units

Copyright (c) 1996-1998, Andy Dougherty
Copyright (c) 1999-2011, H.Merijn Brand
All rights reserved.

These units are the ones used to build Configure and config_h.SH
in the Perl5 distribution.

metaconfig will first look in its standard locations (specified when you
installed dist). It will then recurse through the 'U' subdirectory
and find any additional "private" units. Private units override
standard ones supplied with metaconfig.

Files in this directory:

README
This file.

Glossary.patch
The standard dist units contain some strings that make pod2man
complain. This patch silences those warnings. As new units are
added and Configure is regenerated, this patch may need more and more
'fuzz' to be applied. It should be freshly regenerated every once
in a while. See also mkgloss.pl

ln-all.pl
Re-generate the all/ folder

mkglossary
A script
to regenerate Porting/Glossary. You have to manually
edit the top of the script to point the location of your metaconfig
units. It is called automatically by 'mksample'. See also mkgloss.pl

mkgloss.pl
A perl script that calls U/mkglossary from the perl source tree, sorts
the list of symbols, and applies the patch mentioned in Glossary.patch.
When called on its own, redirect the output to a temporary file, and
compare that file to Porting/Glossary before applying.

mksample
A script to regenerate Porting/config.sh and Porting/config.H.
It also calls mkglossary, if necessary.

Subdirectories:

The units and other related files have been broken up into the following directories.

a_dvisory/
These are units that have to go first in the generated config_h.SH.
A word of explanation: Configure and config_h.SH are generated from 'Units' (the *.U files). Files indicate dependencies (using make(1)), and Configure is built to follow those dependencies.
However, config_h.SH is simply built by putting all the units in alphabetical order and extracting the relevant lines. (This could be fixed, I suppose, but it wasn't trivial the one time I looked.)
The a_dvisory/ directory, then, is a place to put units that need to be early in config_h.SH. (Most units are self-contained and ought to be able to go anywhere. However, some things, like byteorder, need to have the #defines from multiarch available.)

acl/
This is an old patch to begin to detect and use ACL (access control list) file protection schemes.

all/
A folder that conveniently holds symbolic links to all the modules that are used to build the current Configure and config_h.SH.

compline/
These are similar to the standard units, but I have modified them to have a more uniform compile command line, usually using the new Compile.U unit. (The ccflags.U unit is perl-specific since it mentions -DDEBUGGING and -DPOSIX_SOURCE, but that's the only place it is perl-specific.)

dist_patches/
These are patches to dist that must be applied before it is built and installed. I have submitted these for inclusion in the regular dist distribution. They have already been applied to the ../dist-3.0at70b directory.

ebcdic/
These are units that had to be specially modified to work under either EBCDIC or ASCII.

installdirs/
These are units to handle perl's installation directories and related issues.

modified/
These are modified versions of the standard units. Also included in this directory are new units that are clearly derived from existing units. I have submitted these for inclusion in the regular dist distribution.

nullified/
These are null units that replace units in the standard distribution. Typically they are there because some part of the perl source accidentally uses a symbol that metaconfig thinks means we want the corresponding
unit.

perl/
These are specific to perl. Some are heavily derived from original dist units, and are marked as such. Others are original.

perl_patches/
These are patches to the perl source. This directory should ordinarily be empty, but there may have been drift between the standard version of perl and the one associated with these units.

protos/
These are units modified to use the new Hasproto.U or Protochk.U units to check for prototypes.

threads/
These are specific to threading perl.

typedefs/
These are standard units modified to use the modified Typedef.U unit to check for typedefs. (The modified Typdef.U includes a function to avoid unnecessary prompts if the typdef being searched for exists.)

Where appropriate, I submitted these units for inclusion into the regular dist distribution. However, since dist is no longer actively maintained, and the alternative is for *me* to actively maintain it, the units just
sit here.

Copyright Information:

Unless otherwise indicated, the files contained in this distribution are:

Copyright (c) 1996-1998, Andy Dougherty

The following licensing terms apply to all files contained in
this distribution:

You may distribute the files contained in this distribution
under the terms of either

a) the "Artistic License" which comes with Perl, or

b) the "Artistic License" which comes with dist, or

c) the GNU General Public License as published by the Free
Software Foundation; either version 1, or (at your option) any
later version (see the file "Copying" that comes with the
Perl distribution).

Which one to use is your choice.

The units in the "modified" directory have been derived from units
associated with the metaconfig program of Raphael Manfredi's "dist"
distribution. These units list Raphael Manfredi as the Copyright holder.
dist is distributed under a modified version of the Perl Artistic License.
Clause 7 of this modified
license as contained in dist-3.0-pl60 provides:

7. You may reuse parts of this Package in your own programs, provided
that you explicitly state where you got them from, in the source code
(and, left to your courtesy, in the documentation), duplicating
all the associated copyright notices and disclaimers. Besides
your changes, if any, must be clearly marked as such. Parts reused
that way will no longer fall under this license if, and only if,
the name of your program(s) have no immediate connection with the
name of the Package itself or its associated programs. You may then
apply whatever restrictions you wish on the reused parts or choose
to place them in the Public Domain--this will apply only within the
context of your package.

In accordance with this clause, the versions of these units
contained here are made available under the same terms as the
rest of the units.

If you have any questions about the use of these units or about
the differences
between these units and the standard versions, please
feel free to ask.

Andy Dougherty doughera@lafayette.edu
Dept. of Physics
Lafayette College
Easton, PA 18042-1782

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/README
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_stddef.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_stddef.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_stddef: Inhdr
?MAKE: -pick add $@ %<
?S:i_stddef:
?S: This variable conditionally defines the I_STDDEF symbol, which
?S: indicates to the C program that <stddef.h> exists and should
?S: be included.
?S:.
?C:I_STDDEF:
?C: This symbol, if defined, indicates that <stddef.h> exists and should
?C: be included.
?C:.
?H:#$i_stddef I_STDDEF /**/
?H:.
?LINT:set
 i_stddef
: see if stddef is available
set stddef.h i_stddef
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_stddef.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_logb: Inlibc
?MAKE: -pick add $@ %<
?S:d_logb:
?S: This variable conditionally defines the HAS_LOGB symbol, which
?S: indicates to the C program that the logb() routine is available
?S: to extract the exponent of x.
?S:.
?C:HAS_LOGB:
?C: This symbol, if defined, indicates that the logb routine is
?C: available to do the logb function.
?C:.
?H:#$d_logb HAS_LOGB  /**/
?H:.
?LINT:set d_logb
: see if logb exists
set logb d_logb
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_logb.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: charsize.U,v 3.0.1.1 1994/10/29 16:07:13 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: charsize.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:07:13  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:34  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:charsize charbits: cat rm_try Myread Compile run
?MAKE: -pick add $@ %<
?S:charsize:
?S: This variable contains the value of the CHARSIZE symbol, which
?S: indicates to the C program how many bytes there are in a character.
```

```
?S:.
?S:charbits:
?S: This
 variable contains the value of the CHARBITS symbol, which
?S: indicates to the C program how many bits there are in a character.
?S:.
?C:CHARSIZE:
?C: This symbol contains the size of a char, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?C:CHARBITS:
?C: This symbol contains the size of a char, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define CHARSIZE $charsize  /**/
?H:#define CHARBITS $charbits  /**/
?H:.
?F:!try
: length of character in bytes. Is always 1, otherwise it is not C
: This used to be a test using sizeof
charsize=1

: Check for the number of bits in a character
case "$charbits" in
") echo "Checking how long a character is (in bits)..." >&4
 $cat >try.c <<EOCP
#include <stdio.h>
int main ()
{
   int n;
   unsigned char c;
   for (c = 1, n = 0; c; c <<= 1, n++) ;
   printf ("%d\n", n);
   return (0);
   }
EOCP
 set try
 if eval $compile_ok; then
  dflt=`$run ./try`
 else
  dflt='8'
  echo "(I
 can't seem to compile the test program.  Guessing...)"
 fi
 ;;
*)
 dflt="$charbits"
 ;;
```

```
esac
rp="What is the length of a character (in bits)?"
. ./myread
charbits="$ans"
$rm_try
case "$charbits" in
8) ;;
*) cat >&4 << EOM
Your system has an unsigned character size of $charbits bits, which
is rather unusual (normally it is 8 bits).  Perl likely will not work
correctly on your system, with subtle bugs in various places.
EOM
 rp='Do you really want to continue?'
 dflt='n'
 . ./myread
 case "$ans" in
  [yY]) echo >&4 "Okay, continuing." ;;
  *) exit 1    ;;
 esac
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/charsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: etc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: etc.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:etc etcexp: Getfile Loc Oldconfig
?MAKE: -pick add $@ %<
?S:etc:
?S: This variable holds the name of the directory in which the user wants
?S: to put "administrative" executable images for the package in question.
?S: It is most often a local directory such as /usr/local/etc. Programs
?S: relying on this variable must be prepared to deal with
```

```
 ~name
?S: substitutions.
?S:.
?S:etcexp:
?S: This is the same as the etc variable, but is filename expanded at
?S: configuration time, for convenient use in makefiles.
?S:.
: determine where administrative executables go
case "$etc" in
")
 dflt=`./loc . /local/etc /usr/local/etc /local/etc /usr/etc /etc`
 ;;
*)
 dflt="$etc"
 ;;
esac
fn=d~
rp='Where should the administrative executables go?'
. ./getfile
etc="$ans"
etcexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/etc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_scandir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_scandir.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:06:35  ram
?RCS: patch16: created
?RCS:
?MAKE:d_scandir: Inlibc
?MAKE: -pick add $@ %<
?S:d_scandir:
?S: This variable conditionally defines HAS_SCANDIR if scandir() is
?S: available to scan a directory.
?S:.
?C:HAS_SCANDIR:
```

```
?C: This symbol, if defined, indicates that the scandir routine is
?C: available to scan a directory.
?C:.
?H:#$d_scandir HAS_SCANDIR /**/
?H:.
?LINT:set d_scandir
: see if
 scandir exists
set scandir d_scandir
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_scandir.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_lc_monetary_2008: cat Compile rm_try d_locconv
?MAKE: -pick add $@ %<
?S:d_lc_monetary_2008:
?S: This variable conditionally defines HAS_LC_MONETARY_2008 if libc
?S: has the international currency locale rules from POSIX
?S: 1003.1-2008.
?S:.
?C:HAS_LC_MONETARY_2008:
?C: This symbol, if defined, indicates that the localeconv routine is
?C: available and has the additional members added in POSIX 1003.1-2008.
?C:.
?H:#$d_lc_monetary_2008 HAS_LC_MONETARY_2008  /**/
?H:.
: see if libc has the POSIX.1-2008 currency locale rules
case "$d_locconv:$d_lc_monetary_2008" in
$define:)
 $cat
 >try.c <<EOCP
#include <locale.h>
int main() {
 struct lconv *lc = localeconv();
 char int_p_cs_precedes = lc->int_p_cs_precedes;
 return 0;
}
EOCP
 set try
```

```
 if eval $compile; then
  d_lc_monetary_2008="$define"
 else
  d_lc_monetary_2008="$undef"
 fi;
 $rm_try
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_lc_monetary_2008.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:full_ar: ar
?MAKE: -pick add $@ %<
?S:full_ar:
?S: This variable contains the full pathname to 'ar', whether or
?S: not the user has specified 'portability'.  This is only used
?S: in the Makefile.SH.
?S:.
: Store the full pathname to the ar program for use in the C program
: Respect a hint or command line value for full_ar.
case "$full_ar" in
") full_ar=$ar ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/Loc_ar.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_access.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_access: test +cc cat +cppflags h_fcntl h_sysfile rm Inlibc Findhdr
?MAKE: -pick add $@ %<
?S:d_access:
?S: This variable conditionally defines HAS_ACCESS if the access() system
?S: call is available to check for access permissions using real IDs.
?S:.
?C:HAS_ACCESS:
?C: This manifest constant lets the C program know that the access()
?C: system call is available to check for accessibility
 using real UID/GID.
?C: (always present on UNIX.)
?C:.
?H:#$d_access HAS_ACCESS  /**/
?H:.
?W:%<:R_OK W_OK X_OK F_OK
?LINT:set d_access
?LINT:change h_fcntl h_sysfile
: access call always available on UNIX
set access d_access
eval $inlibc

: locate the flags for 'access()'
case "$d_access" in
"$define")
 echo " "
 $cat >access.c <<'EOCP'
#include <sys/types.h>
#ifdef I_FCNTL
#include <fcntl.h>
#endif
#ifdef I_SYS_FILE
#include <sys/file.h>
#endif
#ifdef I_UNISTD
#include <unistd.h>
#endif
int main() {
 exit(R_OK);
}
EOCP
```

```
 : check sys/file.h first, no particular reason here
 if $test `./findhdr sys/file.h` && \
  $cc -o access $cppflags -DI_SYS_FILE access.c >/dev/null 2>&1 ; then
  h_sysfile=true;
  echo "<sys/file.h> defines the *_OK access constants." >&4
 elif $test `./findhdr fcntl.h` && \
  $cc -o access $cppflags -DI_FCNTL access.c >/dev/null 2>&1 ; then
  h_fcntl=true;
  echo "<fcntl.h> defines the *_OK access constants." >&4
@if I_UNISTD
 elif $test `./findhdr unistd.h`
 && \
  $cc -o access $cppflags -DI_UNISTD access.c >/dev/null 2>&1 ; then
  echo "<unistd.h> defines the *_OK access constants." >&4
@end
 else
  echo "I can't find the four *_OK access constants--I'll use mine." >&4
 fi
 ;;
esac
$rm -f access*
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_access.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sanemcmp.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:41:19  ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_sanemcmp: cat d_memcmp +cc +optimize +ccflags +libs +ldflags rm \
 i_memory i_stdlib i_string i_unistd Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_sanemcmp:
?S: This variable conditionally defines the HAS_SANE_MEMCMP symbol if
?S: the memcpy() routine is available and can be used to compare relative
```

```
?S: magnitudes of chars with their high bits set.
?S:.
?C:HAS_SANE_MEMCMP:
?C: This symbol,
 if defined, indicates that the memcmp routine is available
?C: and can be used to compare relative magnitudes of chars with their high
?C: bits set.  If it is not defined, roll your own version.
?C:.
?H:#$d_sanemcmp HAS_SANE_MEMCMP /**/
?H:.
?F:!sanemcmp
?LINT: set d_sanemcmp
: can memcmp be trusted to compare relative magnitude?
?X: assume the worst
val="$undef"
case "$d_memcmp" in
"$define")
 echo " "
 echo \
   "Checking to see if your memcmp() can compare relative magnitude..." >&4
 $cat >foo.c <<EOCP
#$i_memory I_MEMORY
#$i_stdlib I_STDLIB
#$i_string I_STRING
#$i_unistd I_UNISTD
EOCP
 $cat >>foo.c <<'EOCP'
#include <stdio.h>
#ifdef I_MEMORY
#  include <memory.h>
#endif
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#ifdef I_STRING
#  include <string.h>
#else
#  include <strings.h>
#endif
#ifdef I_UNISTD
#  include <unistd.h>  /* Needed for NetBSD */
#endif
int main()
{
char a = -1;
char b = 0;
if ((a < b) && memcmp(&a, &b, 1) < 0)
 exit(1);
```

```
exit(0);
}
EOCP
 if $cc $optimize $ccflags
 $ldflags \
      -o sanemcmp foo.c $libs >/dev/null 2>&1; then
  if ./sanemcmp 2>/dev/null; then
   echo "Yes, it can."
   val="$define"
  else
   echo "No, it can't (it uses signed chars)."
  fi
 else
  echo "(I can't compile the test program, so we'll assume not...)"
 fi
 ;;
esac
$rm -f foo.* sanemcmp core
set d_sanemcmp
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sanemcmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: selecttype.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:20:09  ram
?RCS: patch61: always include <sys/select.h> when available for test
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  14:14:06  ram
?RCS: patch56: removed harmful spaces in assignment
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:06:31  ram
?RCS: patch30: created by ADO
?RCS:
```

```
?MAKE:selecttype: cat +cc +ccflags rm Oldconfig Myread \
 d_fd_set d_select d_socket i_systime
 i_sysselct
?MAKE: -pick add $@ %<
?S:selecttype:
?S: This variable holds the type used for the 2nd, 3rd, and 4th
?S: arguments to select.  Usually, this is 'fd_set *', if HAS_FD_SET
?S: is defined, and 'int *' otherwise.  This is only useful if you
?S: have select(), naturally.
?S:.
?C:Select_fd_set_t:
?C: This symbol holds the type used for the 2nd, 3rd, and 4th
?C: arguments to select.  Usually, this is 'fd_set *', if HAS_FD_SET
?C: is defined, and 'int *' otherwise.  This is only useful if you
?C: have select(), of course.
?C:.
?H:#define Select_fd_set_t  $selecttype /**/
?H:.
?T:xxx yyy
: check for type of arguments to select.  This will only really
: work if the system supports prototypes and provides one for
: select.
case "$d_select" in
$define)
 : Make initial guess
 case "$selecttype" in
 "|' ')
  case "$d_fd_set" in
  $define) xxx='fd_set *' ;;
  *) xxx='int *' ;;
  esac
  ;;
 *)  xxx="$selecttype"
  ;;
 esac
 : backup guess
 case "$xxx" in
 'fd_set *') yyy='int *'
 ;;
 'int *') yyy='fd_set *' ;;
 esac

 $cat <<EOM

Checking to see what type of arguments are expected by select().
EOM
 $cat >try.c <<EOCP
#$i_systime I_SYS_TIME
```

```
#$i_sysselct I_SYS_SELECT
#$d_socket HAS_SOCKET
#include <sys/types.h>
#ifdef HAS_SOCKET
#include <sys/socket.h> /* Might include <sys/bsdtypes.h> */
#endif
#ifdef I_SYS_TIME
#include <sys/time.h>
#endif
#ifdef I_SYS_SELECT
#include <sys/select.h>
#endif
int main()
{
 int width;
 Select_fd_set_t readfds;
 Select_fd_set_t writefds;
 Select_fd_set_t exceptfds;
 struct timeval timeout;
 select(width, readfds, writefds, exceptfds, &timeout);
 exit(0);
}
EOCP
 if $cc $ccflags -c -DSelect_fd_set_t="$xxx" try.c >/dev/null 2>&1 ; then
  selecttype="$xxx"
  echo "Your system uses $xxx for the arguments to select." >&4
 elif $cc $ccflags -c -DSelect_fd_set_t="$yyy" try.c >/dev/null 2>&1 ; then
  selecttype="$yyy"
  echo "Your system uses $yyy for the arguments to select." >&4
 else
  rp='What is the type for the 2nd, 3rd, and 4th arguments
 to select?'
  dflt="$xxx"
  . ./myread
  selecttype="$ans"
 fi
 $rm -f try.[co]
 ;;
*) selecttype='int *'
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/selecttype.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_nice.U 1 2006-08-24 12:32:52Z rmanfredi $

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_nice.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:09:48  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_nice: Inlibc
?MAKE: -pick add $@ %<
?S:d_nice:
?S: This variable conditionally defines the HAS_NICE symbol, which
?S: indicates to the C program that the nice() routine is available.
?S:.
?C:HAS_NICE :
?C: This symbol, if defined, indicates that the nice routine is
?C: available.
?C:.
?H:#$d_nice
 HAS_NICE  /**/
?H:.
?LINT:set d_nice
: see if nice exists
set nice d_nice
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_nice.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_munmap.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: d_munmap.U,v $
?RCS: Revision 3.0.1.1  1993/12/15  08:19:22  ram
?RCS: patch15: created
?RCS:
?MAKE:d_munmap: Inlibc
?MAKE: -pick add $@ %<
?S:d_munmap:
?S: This variable conditionally defines HAS_MUNMAP if munmap() is
?S: available to unmap a region mapped by mmap().
?S:.
?C:HAS_MUNMAP:
?C: This symbol, if defined, indicates that the munmap system call is
?C: available to unmap a region, usually mapped by mmap().
?C:.
?H:#$d_munmap HAS_MUNMAP  /**/
?H:.
?LINT:set
 d_munmap
: see if munmap exists
set munmap d_munmap
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_munmap.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_link.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_link.U,v $
?RCS: Revision 3.0.1.1  1993/08/25  14:01:13  ram
?RCS: patch6: created for completeness
?RCS:
?MAKE:d_link: Inlibc
?MAKE: -pick add $@ %<
?S:d_link:
?S: This variable conditionally defines HAS_LINK if link() is
?S: available to create hard links.
?S:.
?C:HAS_LINK:
```

```
?C: This symbol, if defined, indicates that the link routine is
?C: available to create hard links.
?C:.
?H:#$d_link HAS_LINK /**/
?H:.
?LINT:set d_link
: see if link exists
set
 link d_link
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_link.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2008 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:sGMTIME_max sGMTIME_min sLOCALTIME_max sLOCALTIME_min: cat rm_try \
 Setvar Compile run
?MAKE: -pick add $@ %<
?S:sGMTIME_max:
?S: This variable defines the maximum value of the time_t offset that
?S: the system function gmtime () accepts
?S:.
?S:sGMTIME_min:
?S: This variable defines the minimum value of the time_t offset that
?S: the system function gmtime () accepts
?S:.
?S:sLOCALTIME_max:
?S: This variable defines the maximum value of the time_t offset that
?S: the system function localtime () accepts
?S:.
?S:sLOCALTIME_min:
?S: This variable defines the minimum value of the time_t offset that
?S: the system function localtime () accepts
?S:.
?C:GMTIME_MAX:
?C: This symbol contains the maximum value
 for the time_t offset that
?C: the system function gmtime () accepts, and defaults to 0
?C:.
?C:GMTIME_MIN:
```

```
?C: This symbol contains the minimum value for the time_t offset that
?C: the system function gmtime () accepts, and defaults to 0
?C:.
?C:LOCALTIME_MAX:
?C: This symbol contains the maximum value for the time_t offset that
?C: the system function localtime () accepts, and defaults to 0
?C:.
?C:LOCALTIME_MIN:
?C: This symbol contains the minimum value for the time_t offset that
?C: the system function localtime () accepts, and defaults to 0
?C:.
?H:#define GMTIME_MAX  $sGMTIME_max /**/
?H:#define GMTIME_MIN  $sGMTIME_min /**/
?H:#define LOCALTIME_MAX $sLOCALTIME_max /**/
?H:#define LOCALTIME_MIN $sLOCALTIME_min /**/
?H:.
?D:sGMTIME_max=0
?D:sGMTIME_min=0
?D:sLOCALTIME_max=0
?D:sLOCALTIME_min=0
?F:!try
: Check the max offset that gmtime and localtime accept
echo "Checking max offsets that gmtime () accepts"

case "$sGMTIME_min/$sGMTIME_max" in
   0/0|/)
 $cat >try.c <<EOCP
#include
 <sys/types.h>
#include <stdio.h>
#include <time.h>

int i;
struct tm *tmp;
time_t pt;

void gm_check (time_t t, int min_year, int max_year)
{
   tmp = gmtime (&t);
   if ( tmp == NULL ||
 /* Check tm_year overflow */
  tmp->tm_year < min_year || tmp->tm_year > max_year)
 tmp = NULL;
   else
 pt = t;
   } /* gm_check */

int check_max ()
```

```
{
   tmp = NULL;
   pt  = 0;
#ifdef MAXLONG
   gm_check (MAXLONG, 69, 0x7fffffff);
#endif
   if (tmp == NULL || tmp->tm_year < 0) {
 for (i = 63; i >= 0; i--) {
     time_t x = pt | ((time_t)1 << i);
     if (x < 0 || x < pt) continue;
     gm_check (x, 69, 0x7fffffff);
     }
 }
   printf ("sGMTIME_max=%ld\n", pt);
   return (0);
   } /* check_max */

int check_min ()
{
   tmp = NULL;
   pt  = 0;
#ifdef MINLONG
   gm_check (MINLONG, -1900, 70);
#endif
   if (tmp == NULL) {
 for (i = 36; i >= 0; i--) {
     time_t x = pt - ((time_t)1 << i);
     if (x > 0) continue;
     gm_check (x, -1900, 70);
     }
 }
   printf ("sGMTIME_min=%ld\n",
 pt);
   return (0);
   } /* check_min */

int main (int argc, char *argv[])
{
   /* fprintf (stderr, "Sizeof time_t = %ld\n", sizeof (time_t)); */
   check_max ();
   check_min ();
   return (0);
   } /* main */
EOCP
 set try
 if eval $compile; then
     eval `$run ./try 2>/dev/null`
 else
```

```
    echo "Cannot determine sGMTIME_max and sGMTIME_min." >&4
    fi
 $rm_try
 ;;
   esac

echo "Checking max offsets that localtime () accepts"

case "$sLOCALTIME_min/$sLOCALTIME_max" in
   0/0|/)
 $cat >try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#include <time.h>

int i;
struct tm *tmp;
time_t pt;

void local_check (time_t t, int min_year, int max_year)
{
   if (sizeof (time_t) > 4 && t > 0x7fffffffffff000LL)
 tmp = NULL;
   else
 tmp = localtime (&t);
   if ( tmp == NULL ||
 /* Check tm_year overflow */
  tmp->tm_year < min_year || tmp->tm_year > max_year)
 tmp = NULL;
   else
 pt = t;
   } /* local_check */

int check_max ()
{
   tmp = NULL;
   pt  = 0;
#ifdef
 MAXLONG
   local_check (MAXLONG, 69, 0x7fffffff);
#endif
   if (tmp == NULL || tmp->tm_year < 0) {
 for (i = 63; i >= 0; i--) {
    time_t x = pt | ((time_t)1 << i);
    if (x < 0 || x < pt) continue;
    local_check (x, 69, 0x7fffffff);
    }
 }
```

```
   printf ("sLOCALTIME_max=%ld\n", pt);
   return (0);
  } /* check_max */

int check_min ()
{
   tmp = NULL;
   pt  = 0;
#ifdef MINLONG
   local_check (MINLONG, -1900, 70);
#endif
   if (tmp == NULL) {
 for (i = 36; i >= 0; i--) {
     time_t x = pt - ((time_t)1 << i);
     if (x > 0) continue;
     local_check (x, -1900, 70);
     }
 }
   printf ("sLOCALTIME_min=%ld\n", pt);
   return (0);
   } /* check_min */

int main (int argc, char *argv[])
{
   check_max ();
   check_min ();
   return (0);
   } /* main */
EOCP
 set try
 if eval $compile; then
     eval `$run ./try 2>/dev/null`
 else
     echo "Cannot determine sLOCALTIME_max and sLOCALTIME_min." >&4
     fi
 $rm_try
 ;;
   esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/time_size.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_eofpipe.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:12:40  ram
?RCS: patch36: call ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_eofpipe: cat +cc +ccflags +libs rm Oldconfig Guess echo n c
?MAKE: -pick add $@ %<
?S:d_eofpipe:
?S: This variable conditionally defines the EOFPIPE symbol, which
?S: indicates to the C program that select will correctly detect the EOF
?S: condition when pipe
 is closed from the other end.
?S:.
?C:EOFPIPE:
?C: This symbol, if defined, indicates that EOF condition will be detected
?C: by the reader of the pipe when it is closed by the writing process.
?C: That is, a select() call on that file descriptor will not block when
?C: only an EOF remains (typical behaviour for BSD systems).
?C:.
?H:#$d_eofpipe EOFPIPE  /**/
?H:.
?F:!mpipe
: see if pipe correctly gives the EOF condition
echo " "
case "$d_eofpipe" in
")
 echo "Let's see if your pipes return EOF to select() upon closing..." >&4
 $cat >pipe.c <<'EOP'
int main()
{
 int pd[2];
 int mask;

 pipe(pd);
 if (0 == fork()) {
  close(pd[0]);
  close(pd[1]);
  exit(0);
 }
```

```
 close(pd[1]);
 mask = 1 << pd[0];
 alarm(2);
 select(32, &mask, (int *) 0, (int *) 0, (char *) 0);
 if (0 == read(pd[0], &mask, 1))
  exit(0);

 exit(1);
}
EOP
 if $cc $ccflags -o pipe pipe.c $libs >/dev/null 2>&1; then
?X: Use a script to avoid the possible 'alarm call' message
  echo "./pipe || exit 1" > mpipe
  chmod +x
 mpipe
  ./mpipe >/dev/null 2>&1
  case $? in
  0) d_eofpipe="$define";;
  *) d_eofpipe="$undef";;
  esac
 else
  echo "(The test program did not compile correctly -- Guessing.)"
  if ./bsd; then
   d_eofpipe="$define"
  else
   d_eofpipe="$undef"
  fi
 fi
 case "$d_eofpipe" in
 "$define") echo "Yes, they do.";;
 *) echo "No, they don't! (sigh)";;
 esac
 ;;
*)
 $echo $n "Your pipes $c"
 case "$d_eofpipe" in
 "$define") echo "allow select() to see EOF upon closing.";;
 *) echo "won't let select() see EOF on closing.";;
 esac
 ;;
esac
$rm -f *pipe* core
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_eofpipe.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorprefix.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorprefix.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:usevendorprefix vendorprefix vendorprefixexp +oldvendorprefix: \
 Getfile Loc Oldconfig cat prefix Myread
?MAKE: -pick add $@ %<
?S:usevendorprefix:
?S: This variable tells whether the vendorprefix
?S: and consequently other vendor* paths are in use.
?S:.
?S:vendorprefix:
?S: This variable holds the full absolute path of the directory below
?S: which
 the vendor will install add-on packages.
?S: See INSTALL for usage and examples.
?S:.
?S:vendorprefixexp:
?S: This variable holds the full absolute path of the directory below
?S: which the vendor will install add-on packages.  Derived from vendorprefix.
?S:.
?S:oldvendorprefix:
?S: This variable is set non-null if the vendorprefix was previously defined
?S: and gets set to a new value. Used internally by Configure only.
?S:.
: Set the vendorprefix variables
$cat <<EOM

The installation process will also create a directory for
vendor-supplied add-ons.  Vendors who supply perl with their system
may find it convenient to place all vendor-supplied files in this
directory rather than in the main distribution directory.  This will
ease upgrades between binary-compatible maintenance versions of perl.

Of course you may also use these directories in whatever way you see
fit.  For example, you might use them to access modules shared over a
company-wide network.
```

```
The default answer should be
 fine for most people.
This causes further questions about vendor add-ons to be skipped
and no vendor-specific directories will be configured for perl.

EOM
rp='Do you want to configure vendor-specific add-on directories?'
case "$usevendorprefix" in
define|true|[yY]*) dflt=y ;;
*) : User may have set vendorprefix directly on Configure command line.
 case "$vendorprefix" in
 "|' ') dflt=n ;;
 *) dflt=y ;;
 esac
 ;;
esac
. ./myread
case "$ans" in
[yY]*) fn=d~+
 rp='Installation prefix to use for vendor-supplied add-ons?'
 case "$vendorprefix" in
 ") dflt="$prefix" ;;
 *)  dflt=$vendorprefix ;;
 esac
 . ./getfile
 : XXX Prefixit unit does not yet support siteprefix and vendorprefix
 oldvendorprefix="
 case "$vendorprefix" in
 ") ;;
 *) case "$ans" in
  "$prefix") ;;
  *) oldvendorprefix="$prefix";;
  esac
  ;;
 esac
 usevendorprefix="$define"
 vendorprefix="$ans"
 vendorprefixexp="$ansexp"
 ;;
*) usevendorprefix="$undef"
 vendorprefix="
 vendorprefixexp="
 ;;
esac

Found in path(s):
*
```

/opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/vendorprefix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: nis.U,v 3.0.1.3 1997/02/28 16:17:38 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: nis.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:17:38  ram
?RCS: patch61: ensure suitable defaults for hostcat and friends
?RCS:
?RCS: Revision 3.0.1.2  1995/03/21  08:48:34  ram
?RCS: patch52: continued fix for NeXT NIS/NetInfo handling
?RCS:
?RCS: Revision 3.0.1.1  1995/02/15  14:16:23  ram
?RCS: patch51: now correctly handles NeXT using NIS rather than NetInfo
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:passcat
 groupcat hostcat: Myread Oldconfig test contains
?MAKE: -pick add $@ %<
?S:passcat:
?S: This variable contains a command that produces the text of the
?S: /etc/passwd file.  This is normally "cat /etc/passwd", but can be
?S: "ypcat passwd" when NIS is used.
?S: On some systems, such as os390, there may be no equivalent
?S: command, in which case this variable is unset.
?S:.
?S:groupcat:
?S: This variable contains a command that produces the text of the
?S: /etc/group file.  This is normally "cat /etc/group", but can be
?S: "ypcat group" when NIS is used.
?S: On some systems, such as os390, there may be no equivalent
?S: command, in which case this variable is unset.
?S:.
?S:hostcat:
?S: This variable contains a command that produces the text of the
?S: /etc/hosts file.  This is normally "cat /etc/hosts", but can be
?S: "ypcat hosts" when NIS is used.
```

```
?S: On some systems, such as os390, there may be no equivalent
?S: command, in which case this variable is unset.
?S:.
:
 see if we have to deal with yellow pages, now NIS.
?X: NeXT gives us some fun here, as always, by having both NIS (former YP)
?X: and NetInfo. But since it has both, it's ok to put the test inside the if.
?X: Contributed by Thomas Neumann <tom@smart.bo.open.de>.
if $test -d /usr/etc/yp || $test -d /etc/yp || $test -d /usr/lib/yp; then
@if passcat || groupcat
 case "$passcat" in
 nidump*) ;;
 *)
  case "$passcat" in
  *ypcat*) dflt=y;;
  ") if $contains '^\+' /etc/passwd >/dev/null 2>&1; then
    dflt=y
   else
    dflt=n
   fi;;
  *) dflt=n;;
  esac
  echo " "
  rp='Are you getting the passwd file via yellow pages?'
  . ./myread
  case "$ans" in
  y*) passcat='ypcat passwd'
@if groupcat
   echo "(Assuming /etc/group is also distributed.)"
   groupcat='ypcat group'
@end
   ;;
  *) passcat='cat /etc/passwd'
@if groupcat
   echo "(Assuming /etc/group is also local.)"
   groupcat='cat /etc/group'
@end
   ;;
  esac
  ;;
 esac
@end
@if hostcat
 case "$hostcat" in
 nidump*) ;;
 *)
  case
```

```
 "$hostcat" in
  *ypcat*) dflt=y;;
  ") if $contains '^\+' /etc/passwd >/dev/null 2>&1; then
    dflt=y
   else
    dflt=n
   fi;;
  *) dflt=n;;
  esac
  echo " "
  rp='Are you getting the hosts file via yellow pages?'
  . ./myread
  case "$ans" in
  y*) hostcat='ypcat hosts';;
  *) hostcat='cat /etc/hosts';;
  esac
  ;;
 esac
@end
fi
?X: Ensure suitable default -- Manoj Srivastava
case "$hostcat" in
") test -f /etc/hosts && hostcat='cat /etc/hosts';;
esac
case "$groupcat" in
") test -f /etc/group && groupcat='cat /etc/group';;
esac
case "$passcat" in
") test -f /etc/passwd && passcat='cat /etc/passwd';;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/nis.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_neterrno.U,v 3.0.1.3 1994/10/29 16:20:29 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
```

```
?RCS: $Log: i_neterrno.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:20:29  ram
?RCS: patch36: forgot to initialize 'val' to an empty value (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:22:10  ram
?RCS: patch32: removed spurious echo
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:02:05  ram
?RCS: patch30: created by ADO
?RCS:
?MAKE:i_neterrno: Inhdr +cc +ccflags rm_try Setvar
?MAKE: -pick
 add $@ %<
?S:i_neterrno:
?S: This variable conditionally defines the I_NET_ERRNO symbol, which
?S: indicates to the C program that <net/errno.h> exists and should
?S: be included.
?S:.
?C:I_NET_ERRNO:
?C: This symbol, if defined, indicates that <net/errno.h> exists and
?C: should be included.
?C:.
?H:#$i_neterrno I_NET_ERRNO  /**/
?H:.
?LINT:set i_neterrno
: see if net/errno.h is available
val=''
set net/errno.h val
eval $inhdr

: Unfortunately, it causes problems on some systems.  Arrgh.
case "$val" in
$define)
 cat > try.c <<'EOM'
#include <stdio.h>
#include <errno.h>
#include <net/errno.h>
int func()
{
 return ENOTSOCK;
}
EOM
 if $cc $ccflags -c try.c >/dev/null 2>&1; then
  echo "We'll be including <net/errno.h>." >&4
 else
  echo "We won't be including <net/errno.h>." >&4
  val="$undef"
 fi
```

```
 $rm_try
 ;;
esac
set i_neterrno
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_neterrno.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: basicshell.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: basicshell.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:25  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:basicshell: Getfile Oldconfig bash csh ksh sh
?MAKE: -pick add $@ %<
?S:basicshell:
?S: This variable contains the eventual value of the BASICSHELL symbol,
?S: which contains the full name of the basic script shell on this
?S: system.  Usual values are /bin/sh, /bin/ksh, /bin/csh.
?S:.
?C:BASICSHELL:
?C: This symbol contains the
 full name of the basic script shell on this
?C: system.  Usual values are /bin/sh, /bin/ksh, /bin/csh.
?C:.
?H:#define BASICSHELL "$basicshell"  /**/
?H:.
: find the most basic shell for scripts
echo " "
case "$basicshell" in
")
 case "$sh $bash $csh $ksh" in
 */sh*) dflt="$sh" ;;
 */ksh*) dflt="$ksh" ;;
 */csh*) dflt="$csh" ;;
 */bash*) dflt="$bash" ;;
```

```
 *) dflt='/bin/sh' ;;
 esac
 ;;
*)
 dflt="$basicshell";;
esac
fn=f
rp="Give the full path name of the most basic shell used on your system"
. ./getfile
basicshell=$ans
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/basicshell.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_memcmp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memcmp.U,v $
?RCS: Revision 3.0.1.1  1993/09/13  16:02:35  ram
?RCS: patch10: removed text recommending bcmp over memcmp (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:33  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_memcmp: Inlibc
?MAKE: -pick add $@ %<
?S:d_memcmp:
?S: This variable conditionally defines the HAS_MEMCMP symbol, which
?S: indicates to the C program that the memcmp() routine is available
?S: to compare blocks of
 memory.
?S:.
?C:HAS_MEMCMP (MEMCMP):
?C: This symbol, if defined, indicates that the memcmp routine is available
?C: to compare blocks of memory.
?C:.
?H:#$d_memcmp HAS_MEMCMP /**/
?H:.
?LINT:set d_memcmp
```

```
: see if memcmp exists
set memcmp d_memcmp
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_memcmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_castneg.U,v 3.0.1.2 1995/05/12 12:11:21 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_castneg.U,v $
?RCS: Revision 3.0.1.2  1995/05/12  12:11:21  ram
?RCS: patch54: made sure cc and ccflags are conditional dependencies
?RCS: patch54: added improved test case for Interactive Unix
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:10:50  ram
?RCS: patch36: don't forget to tell user about compilation failures (ADO)
?RCS: patch36: declare signal handler correctly using 'signal_t' (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:47  ram
?RCS: Baseline
 for dist 3.0 netwide release.
?RCS:
?X:
?X: Can the compiler cast negative / odd floats to unsigned values.
?X:
?MAKE:d_castneg castflags: cat Compile rm_try Setvar signal_t run i_stdlib
?MAKE: -pick add $@ %<
?S:d_castneg:
?S: This variable conditionally defines CASTNEG, which indicates
?S: whether the C compiler can cast negative float to unsigned.
?S:.
?S:castflags:
?S: This variable contains a flag that precise difficulties the
?S: compiler has casting odd floating values to unsigned long:
?S:  0 = ok
?S:  1 = couldn't cast < 0
?S:  2 = couldn't cast >= 0x80000000
?S:  4 = couldn't cast in argument expression list
```

```
?S:.
?C:CASTNEGFLOAT:
?C: This symbol is defined if the C compiler can cast negative
?C: numbers to unsigned longs, ints and shorts.
?C:.
?C:CASTFLAGS:
?C: This symbol contains flags that say what difficulties the compiler
?C: has casting odd floating values to unsigned long:
?C:  0 = ok
?C:  1 = couldn't cast < 0
?C:  2 = couldn't cast >= 0x80000000
?C:  4 = couldn't
 cast in argument expression list
?C:.
?H:#$d_castneg CASTNEGFLOAT  /**/
?H:#define CASTFLAGS $castflags  /**/
?H:.
?F:!try
?LINT:set d_castneg
: check for ability to cast negative floats to unsigned
echo " "
echo 'Checking whether your C compiler can cast negative float to unsigned.' >&4
$cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <sys/types.h>
#include <signal.h>
$signal_t blech(int s) { exit(7); }
$signal_t blech_in_list(int s) { exit(4); }
unsigned long dummy_long(unsigned long p) { return p; }
unsigned int dummy_int(unsigned int p) { return p; }
unsigned short dummy_short(unsigned short p) { return p; }
int main()
{
 double f;
 unsigned long along;
 unsigned int aint;
 unsigned short ashort;
 int result = 0;
 char str[16];

 /* Frustrate gcc-2.7.2's optimizer which failed this test with
    a direct f = -123. assignment.  gcc-2.8.0 reportedly
    optimized the whole file away
 */
```

```
/* Store the number in a writable
string for gcc to pass to
   sscanf under HP-UX.
*/
sprintf(str, "-123");
sscanf(str, "%lf", &f);  /* f = -123.; */

signal(SIGFPE, blech);
along = (unsigned long)f;
aint = (unsigned int)f;
ashort = (unsigned short)f;
if (along != (unsigned long)-123)
 result |= 1;
if (aint != (unsigned int)-123)
 result |= 1;
if (ashort != (unsigned short)-123)
 result |= 1;
sprintf(str, "1073741824.");
sscanf(str, "%lf", &f); /* f = (double)0x40000000; */
f = f + f;
along = 0;
along = (unsigned long)f;
if (along != 0x80000000)
 result |= 2;
f -= 1.;
along = 0;
along = (unsigned long)f;
if (along != 0x7fffffff)
 result |= 1;
f += 2.;
along = 0;
along = (unsigned long)f;
if (along != 0x80000001)
 result |= 2;
if (result)
  exit(result);
?X:
?X: The following is a test for Interactive Unix Version 4.1, which
?X: has an 'improved' compiler which can correctly cast negative
?X: floats in expression lists, but apparently not in argument lists.
?X: Contributed by Winfried Koenig
 <win@incom.rhein-main.de>
?X:
 signal(SIGFPE, blech_in_list);
 sprintf(str, "123.");
 sscanf(str, "%lf", &f);  /* f = 123.; */
 along = dummy_long((unsigned long)f);
 aint = dummy_int((unsigned int)f);
```

```
 ashort = dummy_short((unsigned short)f);
 if (along != (unsigned long)123)
  result |= 4;
 if (aint != (unsigned int)123)
  result |= 4;
 if (ashort != (unsigned short)123)
  result |= 4;
 exit(result);

}
EOCP
set try
if eval $compile_ok; then
 $run ./try 2>/dev/null
 castflags=$?
else
 echo "(I can't seem to compile the test program--assuming it can't)"
 castflags=7
fi
case "$castflags" in
0) val="$define"
 echo "Yup, it can."
 ;;
*) val="$undef"
 echo "Nope, it can't."
 ;;
esac
set d_castneg
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_castneg.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorarch.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorarch.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
```

```
?RCS: Initial revision
?RCS:
?MAKE:d_vendorarch vendorarch vendorarchexp installvendorarch: sed Getfile \
 Setprefixvar Oldconfig Prefixit archname vendorlib vendorprefix test
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorarch:
?S: This variable contains the value of the PERL_VENDORARCH symbol.
?S: It may have a ~ on the front.
?S: The standard distribution will put nothing in this directory.
?S: Vendors
 who distribute perl may wish to place their own
?S: architecture-dependent modules and extensions in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorarchexp:
?S: This variable is the ~name expanded version of vendorarch, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorarch="
?S:installvendorarch:
?S: This variable is really the same as vendorarchexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?S:d_vendorarch:
?S: This variable conditionally defined PERL_VENDORARCH.
?S:.
?C:PERL_VENDORARCH:
?C: If defined, this symbol contains the name of a private library.
?C: The library is private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.
?C: It may have a ~ on the front.
?C: The standard distribution will put nothing in this
 directory.
?C: Vendors who distribute perl may wish to place their own
?C: architecture-dependent modules and extensions in this directory with
?C:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?C: or equivalent.  See INSTALL for details.
?C:.
?C:PERL_VENDORARCH_EXP:
?C: This symbol contains the ~name expanded version of PERL_VENDORARCH, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#$d_vendorarch PERL_VENDORARCH "$vendorarch"  /**/
?H:#$d_vendorarch PERL_VENDORARCH_EXP "$vendorarchexp"  /**/
?H:.
```

```
?LINT:change prefixvar
?LINT:set installvendorarch
: Set the vendorarch variables
case "$vendorprefix" in
") d_vendorarch="$undef"
 vendorarch="
 vendorarchexp="
 ;;
*) d_vendorarch="$define"
 : determine where vendor-supplied architecture-dependent libraries go.
 : vendorlib  default is /usr/local/lib/perl5/vendor_perl/$version
 : vendorarch default is /usr/local/lib/perl5/vendor_perl/$version/$archname
 : vendorlib may have an optional trailing
 /share.
 case "$vendorarch" in
 ") dflt=`echo $vendorlib | $sed 's,/share$,,'`
  dflt="$dflt/$archname"
  ;;
 *) dflt="$vendorarch" ;;
 esac
 fn=d~+
 rp='Pathname for vendor-supplied architecture-dependent files?'
 . ./getfile
 vendorarch="$ans"
 vendorarchexp="$ansexp"
 ;;
esac
prefixvar=vendorarch
. ./installprefix
if $test X"$vendorarch" = X"$vendorlib"; then
 d_vendorarch="$undef"
else
 d_vendorarch="$define"
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/vendorarch.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_sresgproto: Hasproto i_unistd
?MAKE: -pick add $@ %<
?S:d_sresgproto:
?S: This variable conditionally defines the HAS_SETRESGID_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the setresgid() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_SETRESGID_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the setresgid() function.  Otherwise, it is up
?C: to the program to supply one.  Good guesses are
?C:  extern
 int setresgid(uid_t ruid, uid_t euid, uid_t suid);
?C:.
?H:#$d_sresgproto HAS_SETRESGID_PROTO /**/
?H:.
?LINT:set d_sresgproto
: see if prototype for setresgid is available
echo " "
set d_sresgproto setresgid $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_sresgproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: cc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cc.U,v $
?RCS: Revision 3.0.1.4  1995/05/12  12:06:47  ram
?RCS: patch54: may now abort Configure when cc does not work
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:20:11  ram
?RCS: patch45: changed gcc checking message to a more explicit one (WED)
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:04:29  ram
```

```
?RCS: patch36: detect gcc even when not called as 'gcc' (ADO)
?RCS: patch36: simplified gcc version checking (ADO)
?RCS: patch36: added ?F: line for metalint
 file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:26:06  ram
?RCS: patch23: added support for gcc version (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:30  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:cc: Myread Oldconfig Checkcc test
?MAKE: -pick add $@ %<
?S:cc:
?S: This variable holds the name of a command to execute a C compiler which
?S: can resolve multiple global references that happen to have the same
?S: name.  Usual values are 'cc' and 'gcc'.
?S: Fervent ANSI compilers may be called 'c89'.  AIX has xlc.
?S:.
?F:!cc.cbu
?D:cc='cc'
: Determine the C compiler to be used
echo " "
case "$cc" in
") dflt=cc;;
*) dflt="$cc";;
esac
rp="Use which C compiler?"
. ./myread
cc="$ans"

: See whether they have no cc but they do have gcc
. ./trygcc
?X: Look for a hint-file generated 'call-back-unit'.  Now that the
?X: user has specified the compiler, we may need to set or change some
?X: other defaults.
if $test -f cc.cbu; then
   . ./cc.cbu
fi
. ./checkcc

Found
 in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/cc.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id$
```

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, 2012 Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:intsize longsize shortsize: Assert Myread cat rm_try +cc +ccflags echo n c
?MAKE: -pick add $@ %<
?S:intsize:
?S: This variable contains the value of the INTSIZE symbol, which
?S: indicates to the C program how many bytes there are in an int.
?S:.
?S:longsize:
?S: This variable contains the value of the LONGSIZE symbol, which
?S: indicates to the C program how many bytes there are in a long.
?S:.
?S:shortsize:
?S: This variable contains the value of the SHORTSIZE symbol which
?S: indicates to the
 C program how many bytes there are in a short.
?S:.
?C:INTSIZE:
?C: This symbol contains the value of sizeof(int) so that the C
?C: preprocessor can make decisions based on it.
?C:.
?C:LONGSIZE:
?C: This symbol contains the value of sizeof(long) so that the C
?C: preprocessor can make decisions based on it.
?C:.
?C:SHORTSIZE:
?C: This symbol contains the value of sizeof(short) so that the C
?C: preprocessor can make decisions based on it.
?C:.
?H:#define INTSIZE $intsize
?H:#define LONGSIZE $longsize
?H:#define SHORTSIZE $shortsize
?H:.
?T:types t size var
?LINT: set shortsize intsize longsize
: check for lengths of integral types
echo " "
types=''
@if SHORTSIZE || shortsize
types="$types short"
@end
```

```
@if INTSIZE || intsize
types="$types int"
@end
@if LONGSIZE || longsize
types="$types long"
@end
for t in $types; do
 $echo $n "Checking to see how big your ${t}s are...$c" >&4
 for size in 2 4 8 16 error; do
  $cat >try.c <<EOCP
#include "static_assert.h"
$t foo;
int main()
{
 STATIC_ASSERT($size
 == sizeof(foo));
 return 0;
}
EOCP
  if $cc -c $ccflags try.c >/dev/null 2>&1; then break; fi
 done
 var=${t}size
 case "$size" in
 error)
  echo " cannot compute it." >&4
  case $t in
  short) dflt=2;;
  int) dflt=4;;
  long) dflt=4;;
  esac
  rp="What is the size of the \"$t\" type (in bytes)?"
  . ./myread
  eval $var="$ans"
  ;;
 *)
  echo " $size bytes." >&4
  eval $var=$size
  ;;
 esac
done
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/intsize.U
No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fpgetround: Inlibc
?MAKE: -pick add $@ %<
?S:d_fpgetround:
?S: This variable conditionally defines HAS_FPGETROUND if fpgetround()
?S: is available to get the floating point rounding mode.
?S:.
?C:HAS_FPGETROUND:
?C: This symbol, if defined, indicates that the fpgetround routine is
?C: available to get the floating point rounding mode.
?C:.
?H:#$d_fpgetround HAS_FPGETROUND  /**/
?H:.
?LINT:set d_fpgetround
: see if fpgetround exists
set fpgetround d_fpgetround
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fpgetround.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtod_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtod_l:
?S: This variable conditionally defines the HAS_STRTOD_L symbol, which
?S: indicates to the C program that the strtod_l() routine is available.
?S:.
?C:HAS_STRTOD_L:
?C: This symbol, if defined, indicates that the strtod_l routine is
?C: available to convert strings to long doubles.
?C:.
?H:#$d_strtod_l HAS_STRTOD_L  /**/
?H:.
?LINT:set d_strtod_l
: see if strtod_l exists
set strtod_l d_strtod_l
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_strtod_l.U
No license file was found, but licenses were detected in source scan.

```
# $Id: errnolist.a,v 3.0 1993/08/18 12:04:35 ram Exp ram $
#
#  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
#
#  You may redistribute only under the terms of the Artistic Licence,
#  as specified in the README file that comes with the distribution.
#  You may reuse parts of this distribution only within the terms of
#  that same Artistic Licence; a copy of which may be found at the root
#  of the source tree for dist 4.0.
#
# Original Author: Harlan Stenn <harlan@mumps.pfcs.com>
#
# $Log: errnolist.a,v $
# Revision 3.0  1993/08/18 12:04:35  ram
# Baseline for dist 3.0 netwide release.
#
#
# This is a simple-minded awk script to generate an initialization for
# sys_errnolist on systems that don't have it.
# This file now depends only on sys/errno.h error numbers under maxerr being
# in order.  It will complain and die if not.  NOTE: It will still produce
# a compilable output file, even with errors, so you
 must check the output.


BEGIN  {
   format = "\t\"%s\",\n"
   printf("/*\n** This is a generated file.  Do NOT edit it unless you really have to...\n*/\n\n")
   printf("char *sys_errnolist[] = {\n")
   maxerr = 89
  }

$1=="#define" {
   if(count > maxerr || substr($2,1,1) != "E")
    next   # we're not interested
   if($3 < count) { # this is bad
    printf("Fatal error: %s out of order at %s\n",\
    FILENAME, $2)>"/dev/tty"
    exit 1
   }
   # fill in the blanks
   while($3 > count) {
    dummy=sprintf("EDUMMY%d",count)
```

```
    printf(format,dummy)
    count++
   }
   printf(format,$2)
   count++
  }

END  {
   printf("\t0\n};\n")
  }
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/lib/errnolist.a
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: make.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: make.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:09:40  ram
?RCS: patch61: created
?RCS:
?MAKE:make_set_make : Loc rm sed make
?MAKE: -pick add $@ %<
?S:make_set_make:
?S: Some versions of 'make' set the variable MAKE.  Others do not.
?S: This variable contains the string to be included in Makefile.SH
?S: so that MAKE is set if needed, and not if not needed.
?S: Possible values are:
?S:
?S: make_set_make='#'  #
 If your make program handles this for you,
?S:
?S: make_set_make="MAKE=$make" # if it doesn't.
?S:
?S: This uses a comment character so that we can distinguish a
?S: 'set' value (from a previous config.sh or Configure -D option)
?S: from an uncomputed value.
?S:.
```

```
?LINT: extern MAKE
?LINT: change MAKE
?X: This test is based on one from an autoconf-generated configure
?X: script. Autoconf stole a lot from Configure, but now it's our
?X: turn to do so... ;-) -- RAM, 21/02/97
: check whether make sets MAKE
echo " "
echo "Checking if your $make program sets \$(MAKE)..." >&4
case "$make_set_make" in
")
?X: Use sed so we don't have a line begining with @echo.  Metaconfig
?X: will think that's a command like @if or @end.
 $sed 's/^X //' > testmake.mak << 'EOF'
Xall:
X  @echo 'maketemp="$(MAKE)"'
EOF
?X: GNU make sometimes prints "make[1]: Entering...", which would confuse us
 case "`$make -f testmake.mak 2>/dev/null`" in
 *maketemp=*) make_set_make='#' ;;
 *) make_set_make="MAKE=$make" ;;
 esac
 $rm
 -f testmake.mak
 ;;
esac
case "$make_set_make" in
'#') echo "Yup, it does.";;
*) echo "Nope, it doesn't.";;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/make.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_wifstat.U,v 3.0.1.3 1997/02/28 15:47:43 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_wifstat.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:47:43  ram
?RCS: patch61: added a ?F: metalint hint
```

```
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  14:09:10  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.1  1995/03/21  08:47:46  ram
?RCS: patch52: created
?RCS:
?MAKE:d_wifstat: Compile d_uwait Oldconfig cat rm
?MAKE: -pick add $@ %<
?S:d_wifstat:
?S: This symbol conditionally defines USE_WIFSTAT
 if the C program can
?S: safely use the WIFxxx macros with the kind of wait() parameter
?S: declared in the program (see UNION_WAIT), or if it can't. Should
?S: only matter on HP-UX, where the macros are incorrectly written and
?S: therefore cause programs using them with an 'union wait' variable
?S: to not compile properly.
?S:.
?C:USE_WIFSTAT:
?C: This symbol, if defined, indicates to the C program that the argument
?C: for the WIFxxx set of macros such as WIFSIGNALED or WIFEXITED can
?C: be of the same kind as the one used to hold the wait() status. Should
?C: only matter on HP-UX, where the macros are incorrectly written and
?C: therefore cause programs using them with an 'union wait' variable
?C: to not compile properly. See also UNION_WAIT.
?C:.
?H:#$d_wifstat USE_WIFSTAT  /**/
?H:.
?T:type
?F:!foo
: see if we can use WIFxxx macros
echo " "
case "$d_wifstat" in
"$define") echo "As before, you can safely use WIFEXITED and friends!" >&4;;
"$undef") echo "You still can't use WIFEXITED
 and friends!" >&4;;
*)
 echo "Let's see whether you can use the WIFEXITED(status) macro and its"
 case "$d_uwait" in
 "$define") type='union wait';;
 *) type='int';;
 esac
 echo "friends with status declared as '$type status'..."
 $cat >foo.c <<EOCP
#include <sys/types.h>
#include <sys/wait.h>

int main()
```

```
{
 $type status;
 int e = 0;

#ifdef WIFEXITED
 if (WIFEXITED(status))
  printf("\n");
 exit(0);
#else
 exit(2);
#endif
}
EOCP
 d_wifstat="$undef"
 set foo
 if eval $compile; then
  if ./foo >/dev/null; then
   echo "Great! Looks like we can use the WIFxxx macros." >&4
   d_wifstat="$define"
  else
   echo "You don't seem to have WIFxxx macros, but that's ok." >&4
  fi
 else
  echo "Apparently you can't use WIFxxx macros properly." >&4
 fi
 $rm -f foo.* foo core
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_wifstat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: perlpath.U,v $
?RCS: Revision 3.0.1.2  1995/09/25  09:17:04  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
```

```
?RCS: Revision 3.0.1.1  1995/01/11  15:33:53  ram
?RCS: patch45: can now use Loc variables since path stripping is deferred
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:32  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this unit is to locate perl good enough to construct a #!
?X:
?MAKE:perlpath: Getfile Oldconfig Loc perl
?MAKE: -pick
 add $@ %<
?Y:TOP
?S:perlpath:
?S: This variable contains the eventual value of the PERLPATH symbol,
?S: which contains the absolute location of the perl interpreter.
?S:.
?C:PERLPATH:
?C: This symbol contains the absolute location of the perl interpreter.
?C:.
?H:#define PERLPATH "$perlpath"  /**/
?H:.
: determine perl absolute location
case "$perlpath" in
")
 if test -f /usr/bin/perl; then
  dflt=/usr/bin/perl
 else
  case "$perl" in
  */*) dflt="$perl";;
  *) dflt=/usr/bin/perl;;
  esac
 fi
 ;;
*)  dflt="$perlpath"
 ;;
esac
echo " "
fn=f~/
rp="Where is perl located on your system?"
. ./getfile
perlpath="$ans"
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/perlpath.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_tcgtpgrp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_tcgtpgrp.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:12:08  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_tcgetpgrp: Inlibc
?MAKE: -pick add $@ %<
?S:d_tcgetpgrp:
?S: This variable conditionally defines the HAS_TCGETPGRP symbol, which
?S: indicates to the C program that the tcgetpgrp() routine is available.
?S: to get foreground process group ID.
?S:.
?C:HAS_TCGETPGRP
 :
?C: This symbol, if defined, indicates that the tcgetpgrp routine is
?C: available to get foreground process group ID.
?C:.
?H:#$d_tcgetpgrp HAS_TCGETPGRP  /**/
?H:.
?LINT:set d_tcgetpgrp
: see if tcgetpgrp exists
set tcgetpgrp d_tcgetpgrp
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_tcgtpgrp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_system.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_system.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_system: Inlibc
?MAKE: -pick add $@ %<
?S:d_system:
?S: This variable conditionally defines HAS_SYSTEM if system() is
?S: available to issue a shell command.
?S:.
?C:HAS_SYSTEM (SYSTEM):
?C: This symbol, if defined, indicates that the system routine is
?C: available to issue a shell command.
?C:.
?H:#$d_system HAS_SYSTEM /**/
?H:.
?LINT:set
 d_system
: see if system exists
set system d_system
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_system.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_limits.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_limits.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:20  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_limits: Inhdr
?MAKE: -pick add $@ %<
?S:i_limits:
?S: This variable conditionally defines the I_LIMITS symbol, and indicates
?S: whether a C program may include <limits.h> to get symbols like WORD_BIT
```

```
?S: and friends.
?S:.
?C:I_LIMITS:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <limits.h> to
 get definition of symbols like WORD_BIT or
?C: LONG_MAX, i.e. machine dependant limitations.
?C:.
?H:#$i_limits I_LIMITS  /**/
?H:.
?LINT:set i_limits
: see if this is a limits.h system
set limits.h i_limits
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_limits.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_shadow.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_prot: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_prot:
?S: This variable conditionally defines the I_PROT symbol, and indicates
?S: whether a C program should include <prot.h>.
?S:.
?C:I_PROT:
?C: This symbol, if defined, indicates that <prot.h> exists and
?C: should be included.
?C:.
?H:#$i_prot I_PROT  /**/
?H:.
?LINT:set i_prot
: see if this is a prot.h system
set prot.h i_prot
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_prot.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: maildir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: maildir.U,v $
?RCS: Revision 3.0.1.1  1993/12/15  08:21:56  ram
?RCS: patch15: now also looks under /var/mail for BSD/386
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:maildir maildirexp: Getfile Loc Oldconfig
?MAKE: -pick add $@ %<
?S:maildir:
?S: This variable contains the name of the directory in which mail is
?S: spooled. Programs using this variable must be prepared to deal with
?S: ~name
 substitutions.
?S:.
?S:maildirexp:
?S: This is the same as the maildir variable, but is filename expanded
?S: at configuration time, for programs not willing to deal with it at
?S: run-time.
?S:.
: determine where mail is spooled
case "$maildir" in
") dflt=`./loc . /usr/spool/mail /usr/spool/mail /usr/mail /var/mail`;;
*) dflt="$maildir";;
esac
echo " "
fn=d~
rp='Where is yet-to-be-read mail spooled?'
. ./getfile
maildir="$ans"
maildirexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/maildir.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS:
?X:
?X: This unit is just a quick shorthand for the compile command
?X: to be used in all the other metaconfig units.
?X:
?MAKE:Compile: +cc +optimize +ccflags +ldflags +libs
?MAKE: -pick add $@ %<
?LINT:define compile compile_ok
?V:compile compile_ok mc_file
?S:compile:
?S: This shell variable is used internally
 by Configure to provide
?S: a convenient shorthand for the typical compile command, namely
?S: $cc $optimize $ccflags $ldflags -o $1 $1.c $libs > /dev/null 2>&1
?S: Note that the output filename does _not_ include the _exe
?S: extension.  Instead we assume that the linker will be
?S: "helpful" and automatically appending the correct suffix.
?S: OS/2 users will apparently need to supply the -Zexe flag to
?S: get this behavior.
?S:
?S: To use this variable, say something like:
?S:  echo 'int main() { exit(0); }' > try.c
?S:  set try
?S:  if eval $compile; then
?S:   echo "success"   # and do whatever . . .
?S:  else
?S:   echo "failure"   # and do whatever . . .
?S:  fi
?S: To add extra flags cc flags (e.g. -DWHATEVER) just put them
?S: in $*, e.g.
?S:  set try -DTRY_THIS_FLAG
```

```
?S:.
?S:compile_ok:
?S: This shell variable is used internally by Configure to provide
?S: a convenient shorthand for the typical compile command that you
?S: expect to work ok.  It is the same as $compile,
 except we
?S: deliberately let the user see any error messages.
?S:.
: define a shorthand compile call
compile='
mc_file=$1;
shift;
$cc -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs > /dev/null 2>&1;'
: define a shorthand compile call for compilations that should be ok.
compile_ok='
mc_file=$1;
shift;
$cc -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs;'
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Compile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_memrchr: Inlibc Hasproto d_gnulibc
?MAKE: -pick add $@ %<
?S:d_memrchr:
?S: This variable conditionally defines the HAS_MEMRCHR symbol, which
?S: indicates to the C program that the memrchr() routine is available
?S: to return a pointer to the last occurrence of a byte in a memory
?S: area (or NULL if not found).
?S:.
?C:HAS_MEMRCHR:
?C: This symbol, if defined, indicates that the memrchr routine is
?C: available to return a pointer to the last occurrence of a byte in
?C: a memory area (or NULL if not found).
?C:.
?H:#$d_memrchr HAS_MEMRCHR  /**/
?H:.
?T:d_memrchr_proto xx1 xx2 xx3 xx4
?LINT:set d_memrchr
: see if memrchr exists
: We need both a prototype in string.h and the symbol in libc.
echo " "
d_memrchr_proto="
```

```
xx1="#$d_gnulibc HAS_GNULIBC"
xx2='#if defined(HAS_GNULIBC)
 && !defined(_GNU_SOURCE)'
xx3='#   define _GNU_SOURCE'
xx4='#endif'
set d_memrchr_proto memrchr literal "$xx1" literal "$xx2" literal "$xx3" literal "$xx4" define string.h
eval $hasproto
case "$d_memrchr_proto" in
   define) # see if memrchr exists
 set memrchr d_memrchr
 eval $inlibc
 ;;
   *)  val=$undef
 set d_memrchr
 eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_memrchr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_llroundl: Inlibc
?MAKE: -pick add $@ %<
?S:d_llroundl:
?S: This variable conditionally defines the HAS_LLROUNDL symbol, which
?S: indicates to the C program that the llroundl() routine is available
?S: to return the long long value nearest to x away from zero.
?S:.
?C:HAS_LLROUNDL:
?C: This symbol, if defined, indicates that the llroundl routine is
?C: available to return the nearest long long value away from zero of
?C: the long double argument value.
?C:.
?H:#$d_llroundl HAS_LLROUNDL  /**/
?H:.
?LINT:set d_llroundl
: see if llroundl exists
set llroundl d_llroundl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_llroundl.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_readv: Inlibc
?MAKE: -pick add $@ %<
?S:d_readv:
?S: This variable conditionally defines the HAS_READV symbol, which
?S: indicates to the C program that the readv() routine is available.
?S:.
?C:HAS_READV:
?C: This symbol, if defined, indicates that the readv routine is
?C: available to do gather reads.  You will also need <sys/uio.h>
?C: and there I_SYSUIO.
?C:.
?H:#$d_readv HAS_READV  /**/
?H:.
?LINT:set d_readv
: see if readv exists
set readv d_readv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_readv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_erf: Inlibc
?MAKE: -pick add $@ %<
?S:d_erf:
?S: This variable conditionally defines the HAS_ERF symbol, which
?S: indicates to the C program that the erf() routine is available.
?S:.
?C:HAS_ERF:
?C: This symbol, if defined, indicates that the erf routine is
?C: available to do the error function.
?C:.
?H:#$d_erf HAS_ERF  /**/
?H:.
?LINT:set d_erf
```

```
: see if erf exists
set erf d_erf
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_erf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_dlopen.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  13:52:56  ram
?RCS: patch56: force compile-link test since symbol might lie in crt0.o (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:34  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_dlopen: Inlibc runnm
?MAKE: -pick add $@ %<
?S:d_dlopen:
?S: This variable conditionally defines the HAS_DLOPEN symbol, which
?S: indicates to the C program that the dlopen() routine
 is available.
?S:.
?C:HAS_DLOPEN :
?C: This symbol, if defined, indicates that the dlopen routine is
?C: available.
?C:.
?H:#$d_dlopen HAS_DLOPEN  /**/
?H:.
?T: xxx_runnm
?LINT:set d_dlopen
?X: We don't permanently change runnm, but we do temporarily.
?LINT: change runnm
: see if dlopen exists
?X: On NetBSD and FreeBSD, dlopen is available, but it is in
?X: /usr/lib/crt0.o, not in any of the libraries.  Therefore, do not
```

```
?X: use the nm extraction, but use a real compile and link test instead.
xxx_runnm="$runnm"
runnm=false
set dlopen d_dlopen
eval $inlibc
runnm="$xxx_runnm"
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_dlopen.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_hypot: Inlibc
?MAKE: -pick add $@ %<
?S:d_hypot:
?S: This variable conditionally defines HAS_HYPOT if hypot is available
?S: for numerically stable hypotenuse function.
?S:.
?C:HAS_HYPOT:
?C: This symbol, if defined, indicates that the hypot routine is
?C: available to do the hypotenuse function.
?C:.
?H:#$d_hypot HAS_HYPOT  /**/
?H:.
?LINT:set d_hypot
: see if hypot exists
set hypot d_hypot
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_hypot.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_tzmin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_tzmin.U,v $
```

```
?RCS: Revision 3.0.1.1  1994/10/29  16:16:58  ram
?RCS: patch36: call ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:49  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_tzmin: contains cppstdin cppminus timeincl rm Setvar Guess
?MAKE: -pick add $@ %<
?S:d_tzmin:
?S: This symbol conditionally defines TZ_MINUTESWEST if the system uses
?S: tz_minuteswest in time header instead of timezone.
?S:.
?C:TZ_MINUTESWEST:
?C: This
 symbol is defined if this system uses tz_minuteswest
?C: in time header instead of timezone.
?C: If not defined, you may have to use struct timeb and ftime() rather
?C: than the new gettimeofday() system call.
?C:.
?H:#$d_tzmin TZ_MINUTESWEST  /**/
?H:.
?LINT:set d_tzmin
: see if tz_minuteswest is defined in time header
echo " "
val="$undef"
$cppstdin $cppminus < $timeincl > try 2>&1
if $contains 'tz_minuteswest' try >/dev/null 2>&1; then
echo "You have tz_minuteswest defined in $timeincl rather than timezone." >&4
 val="$define"
elif $contains 'timezone' try >/dev/null 2>&1; then
echo "You have timezone defined in $timeincl rather than tz_minuteswest." >&4
else
 echo "Your $timeincl file looks strange." >&4
fi
if ./bsd; then
 case "$d_tzmin" in
 "$undef") echo "(Maybe your system is an USG one after all?)";;
 esac
fi
set d_tzmin
eval $setvar
$rm -f try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_tzmin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Configdir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Configdir.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  14:58:36  ram
?RCS: patch61: have README explicitly mention the package name
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:49  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:Configdir: package
?MAKE: -pick add $@ %<
: create .config dir to save info across Configure sessions
test -d ../.config || mkdir ../.config
cat >../.config/README <<EOF
This directory created by Configure to save
 information that should
persist across sessions for $package.

You may safely delete it if you wish.
EOF
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Configdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sunscanf.U,v 3.0 1993/08/18 12:09:54 ram Exp $
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sunscanf.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:sunscanf: cat rm Compile Myread test Setvar
?MAKE: -pick add $@ %<
?S:sunscanf:
?S: This variable is set if this system runs with the Sun version
?S: of scanf.
?S:.
?C:SUNSCANF:
?C: This variable is set if this system runs with the Sun version
?C: of scanf.
?C:.
?H:#$sunscanf SUNSCANF  /**/
?H:.
?LINT:set sunscanf
?F:!scanf
: check to see what
 kinda scanf your using.
echo " "
echo "Checking to see what flavor of scanf you have..." >&4
$cat >scanf.c <<'EOCP'
int main()
{
 float value;

 sscanf("4.5","%g",&value);
 printf("%d\n", value == 4.5);
}
EOCP
set scanf
if eval $compile_ok; then
 if $test `./scanf` = 0; then
  echo "Hmm.. seems you are not running the USG flavor.."
  val="$undef"
 else
  echo "Uh... you are running the USG flavor of scanf."
  val="$define"
 fi
else
 echo "(I can't seem to compile the test program... Guessing)"
 val="$undef"
fi
set sunscanf
eval $setvar
$rm -f scanf*
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/sunscanf.U

No license file was found, but licenses were detected in source scan.

```
case $CONFIG in
")
 if test -f config.sh; then TOP=.;
 elif test -f ../config.sh; then TOP=..;
 elif test -f ../../config.sh; then TOP=../..;
 elif test -f ../../../config.sh; then TOP=../../..;
 elif test -f ../../../../config.sh; then TOP=../../../..;
 else
  echo "Can't find config.sh."; exit 1
 fi
 . $TOP/config.sh
 ;;
esac
case "$0" in
*/*) cd `expr X$0 : 'X\(.*\)/'` ;;
esac
echo "Extracting makedir (with variable substitutions)"
$spitshell >makedir <<!GROK!THIS!
$startsh
# $Id: makedir.sh,v 3.0.1.1 1994/01/24 14:00:08 ram Exp ram $
#
#  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
#
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#  as specified in the README file that comes with the distribution.
#  You may reuse parts of this distribution only within the terms of
#  that same Artistic Licence; a copy of which may be found at the root
#  of the source tree for dist 4.0.
#
# Original
 Author: Larry Wall <lwall@netlabs.com>
#
# $Log: makedir.sh,v $
# Revision 3.0.1.1  1994/01/24  14:00:08  ram
# patch16: changed top ln-style config.sh lookup into test-style one
#
# Revision 3.0  1993/08/18  12:04:38  ram
# Baseline for dist 3.0 netwide release.
#

export PATH || (echo "OOPS, this isn't sh.  Desperation time.  I will feed myself to sh."; sh \$0; kill \$\$)

case \$# in
 0)
   $echo "makedir pathname filenameflag"
   exit 1
```

```
   ;;
esac

: guarantee one slash before 1st component
case \$1 in
 /*) ;;
 *)  set ./\$1 \$2 ;;
esac

: strip last component if it is to be a filename
case X\$2 in
 X1) set \`$echo \$1 | $sed 's:\(.*\)/[^/]*\$:\1:'\` ;;
 *)  set \$1 ;;
esac

: return reasonable status if nothing to be created
if $test -d "\$1" ; then
   exit 0
fi

list=''
while true ; do
   case \$1 in
   */*)
 list="\$1 \$list"
 set \`echo \$1 | $sed 's:\(.*\)/:\1 :'\`
 ;;
   *)
 break
 ;;
   esac
done

set \$list

for dir do
   $mkdir \$dir >/dev/null 2>&1
done
!GROK!THIS!
$eunicefix
 makedir
chmod +x makedir
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/lib/makedir.SH
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysvfs.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysvfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysvfs:
?S: This variable conditionally defines the I_SYSVFS symbol,
?S: and indicates whether a C program should include <sys/vfs.h>.
?S:.
?C:I_SYS_VFS:
?C: This symbol, if defined, indicates that <sys/vfs.h> exists and
?C: should be included.
?C:.
?H:#$i_sysvfs I_SYS_VFS  /**/
?H:.
?LINT:set i_sysvfs
: see if this is a sys/vfs.h system
set sys/vfs.h i_sysvfs
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_sysvfs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2021 Nicholas Clark & H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_thread_local perl_thread_local: cat echo Setvar Compile run rm_try hint
?MAKE: -pick add $@ %<
?S:d_thread_local:
?S: This variable conditionally defines the PERL_THREAD_LOCAL symbol. In
?S: turn that gives a linkage specification for thread-local storage.
?S:.
?S:perl_thread_local:
?S: This variable gives the value for the PERL_THREAD_LOCAL symbol (when
?S: defined), which gives a linkage specification for thread-local storage.
?S:.
?C:PERL_THREAD_LOCAL:
?C: This symbol, if defined, gives a linkage specification for thread-local
```

```
?C: storage. For example, for a C11 compiler this will be _Thread_local.
?C: Beware, some compilers are sensitive to the C language standard they are
?C: told
 to parse. For example, suncc defaults to C11, so our probe will
?C: report that _Thread_local can be used. However, if the -std=c99 is later
?C: added to the compiler flags, then _Thread_local will become a syntax
?C: error. Hence it is important for these flags to be consistent between
?C: probing and use.
?C:.
?H:#$d_thread_local PERL_THREAD_LOCAL $perl_thread_local /**/
?H:.
?T:thread_local
?F:!try
?LINT:set d_thread_local
: see what flavor, if any, of thread local storage is supported
echo " "
echo "Checking to see if your system supports C11 thread local storage..."
$cat > try.c <<'EOCP'
#include <stdio.h>
#include <stdlib.h>
#include <pthread.h>

static int plus_one = 1;
static int minus_one = -1;

PROBE_MACRO int *minion;

int callback (const void *a, const void *b) {
   int val_a = *minion * *(const int *)a;
   int val_b = *minion * *(const int *)b;
   return val_a < val_b ? -1 : val_a > val_b;
}

#define SIZE 8

void *thread_function(void *arg) {
   /* thread local variables
 should start zeroed in each thread. */
   if (minion != NULL) {
       fprintf(stderr, "__thread variable started with %p, should be NULL\n",
               minion);
       exit(2);
   }
   minion = &minus_one;

   int array[SIZE];
   unsigned int i;
   for (i = 0; i < SIZE; ++i) {
```

```
        /* "Hash randomisation" - this array isn't in sorted order: */
        array[i ^ 5] = i * i;
    }

    qsort(array, SIZE, sizeof(int), callback);

    int bad = 0;
    for (i = 0; i < SIZE; ++i) {
        int want = (SIZE - 1 - i) * (SIZE - 1 - i);
        int have = array[i];
        if (want != have) {
            ++bad;
            fprintf(stderr, "array[%u] - want %i, have %i\n", i, want, have);
        }
    }
    if (bad)
        exit(3);

    return NULL;
}

int main(int argc, char **argv) {
    if (minion != NULL) {
        fprintf(stderr, "__thread variable started with %p, should be NULL\n",
                minion);
        exit(4);
    }

    minion = &plus_one;

    pthread_t
  tid;
    int result = pthread_create(&tid, NULL, thread_function, NULL);
    if (result) {
        fprintf(stderr, "pthread_create failed (%d)\n", result);
        exit(5);
    }

    result = pthread_join(tid, NULL);
    if (result) {
        fprintf(stderr, "pthread_join failed (%d)\n", result);
        exit(6);
    }

    if (minion == NULL) {
        fprintf(stderr, "__thread variable should not be NULL\n");
        exit(7);
    }
```

```
  if (!(minion == &plus_one && *minion == 1)) {
      fprintf(stderr, "__thread variable should be %d @ %p, not %d @ %p\n",
              1, &plus_one, *minion, minion);
      exit(8);
  }

  return 0;
}
EOCP

# Respect a hint (or previous) value for perl_thread_local, if there is one.
case "$perl_thread_local" in
") # Check the various possibilities, and break out on success.
 for thread_local in _Thread_local __thread; do
  set try -DPROBE_MACRO=$thread_local
  if eval $compile && $run ./try; then
   $echo "Your compiler supports $thread_local."
 >&4
   val=$define
   perl_thread_local="$thread_local";
   break;
  fi
  $echo "Your compiler does NOT support $thread_local." >&4
  val="$undef"
 done
 ;;
*thread*|*Thread*) # Some variant of thread local exists.
 echo "Keeping your $hint value of $perl_thread_local."
 val=$define
 ;;
*)  # Unrecognized previous value -- blindly trust the supplied
 # value and hope it makes sense.  Use old value for
 # d_thread_local, if there is one.
 echo "Keeping your $hint value of $perl_thread_local."
 case "$d_thread_local" in
  ") val=$define ;;
  *)  val=$d_thread_local ;;
 esac
 ;;
esac
set d_thread_local
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_thread_local.U

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```
?RCS: $Id: Getfile.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Getfile.U,v $
?RCS: Revision 3.0.1.7  1997/02/28  15:01:06  ram
?RCS: patch61: getfile script now begins with "startsh"
?RCS:
?RCS: Revision 3.0.1.6  1995/02/15  14:11:00  ram
?RCS: patch51: was not working if ~'s allowed with d_portable on (WED)
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:11:25  ram
?RCS: patch45: added support for escaping answers to skip various checks
?RCS: patch45: modified message issued after file expansion
?RCS:
?RCS: Revision
 3.0.1.4  1994/10/29  15:53:19  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.3  1994/05/06  14:23:36  ram
?RCS: patch23: getfile could be confused by file name in "locate" requests
?RCS: patch23: new 'p' directive to assume file is in people's path (WED)
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:01:31  ram
?RCS: patch16: added metalint hint on changed 'ans' variable
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  15:46:27  ram
?RCS: patch10: minor format problems and misspellings fixed
?RCS: patch10: now performs from package dir and not from UU subdir
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to get a file name and make some sanity checks. Optionally, a ~name
?X: expansion is performed.
?X:
?X: To use this unit, $rp and $dflt must hold the question and the
?X: default answer, which will be passed as-is
```

```
 to the myread script.
?X: The $fn variable must hold the file type (f or d, for file/directory).
?X: If $gfpth is set to a list of space-separated list of directories,
?X: those are prefixes for the filename.  Unless $gfpthkeep is set to 'y',
?X: gfpth is cleared on return from Getfile.
?X:
?X: If it is followed by a ~, then ~name substitution will occur. Upon return,
?X: $ans is set with the filename value. If a / is specified, then only a full
?X: path name is accepted (but ~ substitution occurs before, if needed). The
?X: expanded path name is returned in that case.
?X:
?X: If a + is specified, the existence checks are skipped. This usually means
?X: the file/directory is under the full control of the program.
?X:
?X: If the 'n' (none) type is used, then the user may answer none.
?X: The 'e' (expand) switch may be used to bypass d_portable, expanding ~name.
?X:
?X: If the 'l' (locate) type is used, then it must end with a ':' and then a
?X: file name. If the answer is a directory,
 the file name will be appended
?X: before testing for file existence. This is useful in locate-style
?X: questions like "where is the active file?". In that case, one should
?X: use:
?X:
?X:   dflt='~news/lib'
?X:   fn='l~:active'
?X:   rp='Where is the active file?'
?X:   . ./getfile
?X:   active="$ans"
?X:
?X: If the 'p' (path) letter is specified along with 'l', then an answer
?X: without a leading / will be expected to be found in everyone's path.
?X:
?X: It is also possible to include a comma-separated list of items within
?X: parentheses to specify which items should be accepted as-is with no
?X: further checks. This is useful when for instance a full path is expected
?X: but the user may escape out via "magical" answers.
?X:
?X: If the answer to the question is 'none', then the existence checks are
?X: skipped and the empty string is returned.
?X:
?MAKE:Getfile: d_portable contains startsh Myread Filexp tr trnl
?MAKE: -pick add $@ %<
?V:ansexp:fn gfpth gfpthkeep
?F:./getfile
?T:tilde
 type what orig_rp orig_dflt fullpath already redo skip none_ok \
 value exp_file nopath_ok loc_file fp pf dir direxp
```

```
?LINT:change ans
?LINT:change gfpth
: now set up to get a file name
cat <<EOS >getfile
$startsh
EOS
cat <<'EOSC' >>getfile
tilde=''
fullpath=''
already=''
skip=''
none_ok=''
exp_file=''
nopath_ok=''
orig_rp="$rp"
orig_dflt="$dflt"
case "$gfpth" in
'') gfpth='.' ;;
esac

?X: Begin by stripping out any (...) grouping.
case "$fn" in
*\(*)
 : getfile will accept an answer from the comma-separated list
 : enclosed in parentheses even if it does not meet other criteria.
 expr "$fn" : '.*(\(.*\)).*' | $tr ',' $trnl >getfile.ok
 fn=`echo $fn | sed 's/(.*)//'`
 ;;
esac

?X: Catch up 'locate' requests early, so that we may strip the file name
?X: before looking at the one-letter commands, in case the file name contains
?X: one of them. Reported by Wayne Davison <davison@borland.com>.
case "$fn" in
*:*)
 loc_file=`expr $fn : '.*:\(.*\)'`
 fn=`expr $fn : '\(.*\):.*'`
 ;;
esac

case
 "$fn" in
*~*) tilde=true;;
esac
case "$fn" in
*/*) fullpath=true;;
esac
case "$fn" in
```

```
*+*) skip=true;;
esac
case "$fn" in
*n*) none_ok=true;;
esac
case "$fn" in
*e*) exp_file=true;;
esac
case "$fn" in
*p*) nopath_ok=true;;
esac

case "$fn" in
*f*) type='File';;
*d*) type='Directory';;
*l*) type='Locate';;
esac

what="$type"
case "$what" in
Locate) what='File';;
esac

case "$exp_file" in
")
 case "$d_portable" in
 "$define") ;;
 *) exp_file=true;;
 esac
 ;;
esac

cd ..
while test "$type"; do
 redo="
 rp="$orig_rp"
 dflt="$orig_dflt"
 case "$tilde" in
 true) rp="$rp (~name ok)";;
 esac
 . UU/myread
?X: check for allowed escape sequence which may be accepted verbatim.
 if test -f UU/getfile.ok && \
  $contains "^$ans\$" UU/getfile.ok >/dev/null 2>&1
 then
  value="$ans"
  ansexp="$ans"
  break
```

```
 fi
 case "$ans" in
 none)
  value=''
  ansexp=''
  case "$none_ok" in
  true) type='';;
  esac
  ;;
 *)
  case "$tilde" in
  '') value="$ans"
   ansexp="$ans";;
  *)
   value=`UU/filexp $ans`
   case
 $? in
   0)
    if test "$ans" != "$value"; then
     echo "(That expands to $value on this system.)"
    fi
    ;;
   *) value="$ans";;
   esac
   ansexp="$value"
   case "$exp_file" in
   '') value="$ans";;
   esac
   ;;
  esac
  case "$fullpath" in
  true)
?X: Perform all the checks on ansexp and not value since when d_portable
?X: is defined, the original un-expanded answer which is stored in value
?X: would lead to "non-existent" error messages whilst ansexp has been
?X: properly expanded. -- Fixed by Jan.Djarv@sa.erisoft.se (Jan Djarv)
?X: Always expand ~user if '/' was requested
   case "$ansexp" in
   /*) value="$ansexp" ;;
?X: Allow for c:/some/path
   [a-zA-Z]:/*) value="$ansexp" ;;
   *)
    redo=true
    case "$already" in
    true)
    echo "I shall only accept a full path name, as in /bin/ls." >&4
    echo "Use a ! shell escape if you wish to check pathnames." >&4
     ;;
```

```
   *)
   echo "Please give a full path name, starting with slash." >&4
    case "$tilde"
in
    true)
   echo "Note that using ~name is ok provided it expands well." >&4
     already=true
     ;;
    esac
   esac
   ;;
  esac
  ;;
 esac
 case "$redo" in
 ")
  case "$type" in
  File)
   for fp in $gfpth; do
    if test "X$fp" = X.; then
        pf="$ansexp"
    else
        pf="$fp/$ansexp"
    fi
    if test -f "$pf"; then
     type="
    elif test -r "$pf" || (test -h "$pf") >/dev/null 2>&1
    then
     echo "($value is not a plain file, but that's ok.)"
     type="
    fi
    if test X"$type" = X; then
        value="$pf"
        break
    fi
   done
   ;;
  Directory)
   for fp in $gfpth; do
    if test "X$fp" = X.; then
        dir="$ans"
        direxp="$ansexp"
    else
        dir="$fp/$ansexp"
        direxp="$fp/$ansexp"
    fi
    if test -d "$direxp"; then
     type="
```

```
    value="$dir"
    break
   fi
  done
  ;;
 Locate)
  if test -d "$ansexp"; then
   echo "(Looking for $loc_file in directory
$value.)"
   value="$value/$loc_file"
   ansexp="$ansexp/$loc_file"
  fi
  if test -f "$ansexp"; then
   type="
  fi
  case "$nopath_ok" in
  true) case "$value" in
   */*) ;;
   *) echo "Assuming $value will be in people's path."
    type="
    ;;
   esac
   ;;
  esac
  ;;
 esac

 case "$skip" in
 true) type=";
 esac

 case "$type" in
 ") ;;
 *)
  if test "$fastread" = yes; then
   dflt=y
  else
   dflt=n
  fi
  rp="$what $value doesn't exist.  Use that name anyway?"
  . UU/myread
  dflt="
  case "$ans" in
  y*) type=";;
  *) echo " ";;
  esac
  ;;
 esac
```

```
   ;;
  esac
  ;;
 esac
done
cd UU
ans="$value"
rp="$orig_rp"
dflt="$orig_dflt"
rm -f getfile.ok
test "X$gfpthkeep" != Xy && gfpth=""
EOSC
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Getfile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setlocale.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_setlocale.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  06:57:51  ram
?RCS: patch30: created
?RCS:
?MAKE:d_setlocale: Inlibc
?MAKE: -pick add $@ %<
?S:d_setlocale:
?S: This variable conditionally defines HAS_SETLOCALE if setlocale() is
?S: available to handle locale-specific ctype implementations.
?S:.
?C:HAS_SETLOCALE:
?C: This symbol, if defined, indicates that the setlocale
 routine is
?C: available to handle locale-specific ctype implementations.
?C:.
?H:#$d_setlocale HAS_SETLOCALE /**/
?H:.
?LINT:set d_setlocale
```

```
: see if setlocale exists
set setlocale d_setlocale
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setlocale.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endservent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_endservent_r endservent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_endservent_r:
?S: This variable conditionally defines the HAS_ENDSERVENT_R symbol,
?S: which indicates to the C program that the endservent_r()
?S: routine is available.
?S:.
?S:endservent_r_proto:
?S: This variable encodes the prototype of endservent_r.
?S: It is zero if d_endservent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endservent_r
?S: is defined.
?S:.
?C:HAS_ENDSERVENT_R:
?C: This symbol, if defined, indicates that the endservent_r routine
?C: is
 available to endservent re-entrantly.
?C:.
?C:ENDSERVENT_R_PROTO:
?C: This symbol encodes the prototype of endservent_r.
?C: It is zero if d_endservent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endservent_r
?C: is defined.
?C:.
?H:#$d_endservent_r HAS_ENDSERVENT_R /**/
?H:#define ENDSERVENT_R_PROTO $endservent_r_proto /**/
?H:.
?T:try hdrs d_endservent_r_proto
: see if endservent_r exists
set endservent_r d_endservent_r
```

```
eval $inlibc
case "$d_endservent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_endservent_r_proto:$usethreads" in
 ":define") d_endservent_r_proto=define
  set d_endservent_r_proto endservent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_endservent_r_proto" in
 define)
 case "$endservent_r_proto" in
 "|0) try='int endservent_r(struct servent_data*);'
 ./protochk "$extern_C $try" $hdrs && endservent_r_proto=I_D ;;
 esac
 case "$endservent_r_proto" in
 "|0) try='void endservent_r(struct
 servent_data*);'
 ./protochk "$extern_C $try" $hdrs && endservent_r_proto=V_D ;;
 esac
 case "$endservent_r_proto" in
 "|0) d_endservent_r=undef
  endservent_r_proto=0
  echo "Disabling endservent_r, cannot determine prototype." >&4 ;;
 * ) case "$endservent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) endservent_r_proto="REENTRANT_PROTO_$endservent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "endservent_r has no prototype, not using it." >&4 ;;
  esac
  d_endservent_r=undef
  endservent_r_proto=0
  ;;
 esac
 ;;
*) endservent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_endservent_r.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getprotobyname_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getprotobyname_r getprotobyname_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getprotobyname_r:
?S: This variable conditionally defines the HAS_GETPROTOBYNAME_R symbol,
?S: which indicates to the C program that the getprotobyname_r()
?S: routine is available.
?S:.
?S:getprotobyname_r_proto:
?S: This variable encodes the prototype of getprotobyname_r.
?S: It is zero if d_getprotobyname_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getprotobyname_r
?S: is defined.
?S:.
?C:HAS_GETPROTOBYNAME_R:
?C: This symbol, if
 defined, indicates that the getprotobyname_r routine
?C: is available to getprotobyname re-entrantly.
?C:.
?C:GETPROTOBYNAME_R_PROTO:
?C: This symbol encodes the prototype of getprotobyname_r.
?C: It is zero if d_getprotobyname_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getprotobyname_r
?C: is defined.
?C:.
?H:#$d_getprotobyname_r HAS_GETPROTOBYNAME_R /**/
?H:#define GETPROTOBYNAME_R_PROTO $getprotobyname_r_proto /**/
?H:.
?T:try hdrs d_getprotobyname_r_proto
: see if getprotobyname_r exists
set getprotobyname_r d_getprotobyname_r
eval $inlibc
case "$d_getprotobyname_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getprotobyname_r_proto:$usethreads" in
 ":define") d_getprotobyname_r_proto=define
  set d_getprotobyname_r_proto getprotobyname_r $hdrs
```

```
 eval $hasproto ;;
*) ;;
esac
case "$d_getprotobyname_r_proto" in
define)
case "$getprotobyname_r_proto" in
"|0) try='int getprotobyname_r(const char*, struct
protoent*, char*, size_t, struct protoent**);'
./protochk "$extern_C $try" $hdrs && getprotobyname_r_proto=I_CSBWR ;;
esac
case "$getprotobyname_r_proto" in
"|0) try='struct protoent* getprotobyname_r(const char*, struct protoent*, char*, int);'
./protochk "$extern_C $try" $hdrs && getprotobyname_r_proto=S_CSBI ;;
esac
case "$getprotobyname_r_proto" in
"|0) try='int getprotobyname_r(const char*, struct protoent*, struct protoent_data*);'
./protochk "$extern_C $try" $hdrs && getprotobyname_r_proto=I_CSD ;;
esac
case "$getprotobyname_r_proto" in
"|0) d_getprotobyname_r=undef
 getprotobyname_r_proto=0
 echo "Disabling getprotobyname_r, cannot determine prototype." >&4 ;;
* ) case "$getprotobyname_r_proto" in
 REENTRANT_PROTO*) ;;
 *) getprotobyname_r_proto="REENTRANT_PROTO_$getprotobyname_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "getprotobyname_r has no prototype, not using it." >&4 ;;
 esac
 d_getprotobyname_r=undef
 getprotobyname_r_proto=0
 ;;
esac
;;
*) getprotobyname_r_proto=0
 ;;
esac
```

Found
 in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getprotobyname_r.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: selecttype.U,v 3.0.1.3 1997/02/28 16:20:09 ram Exp $

```
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: selecttype.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:20:09  ram
?RCS: patch61: always include <sys/select.h> when available for test
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  14:14:06  ram
?RCS: patch56: removed harmful spaces in assignment
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:06:31  ram
?RCS: patch30: created by ADO
?RCS:
?MAKE:selecttype: Protochk Oldconfig Myread cat
 \
 d_fd_set d_select d_socket i_systime i_sysselct extern_C
?MAKE: -pick add $@ %<
?S:selecttype:
?S: This variable holds the type used for the 2nd, 3rd, and 4th
?S: arguments to select.  Usually, this is 'fd_set *', if HAS_FD_SET
?S: is defined, and 'int *' otherwise.  This is only useful if you
?S: have select(), naturally.
?S:.
?C:Select_fd_set_t:
?C: This symbol holds the type used for the 2nd, 3rd, and 4th
?C: arguments to select.  Usually, this is 'fd_set *', if HAS_FD_SET
?C: is defined, and 'int *' otherwise.  This is only useful if you
?C: have select(), of course.
?C:.
?H:#define Select_fd_set_t $selecttype /**/
?H:.
?T:xxx nfd tmo try hdrs val
: check for type of arguments to select.
case "$selecttype" in
") case "$d_select" in
 $define)
  echo " "
  $cat <<EOM
Checking to see what type of arguments are accepted by select().
EOM
```

```
  hdrs="$define sys/types.h
   $i_systime sys/time.h
   $i_sysselct sys/select.h
   $d_socket sys/socket.h"
  : The first arg can be int, unsigned,
 or size_t
  : The last arg may or may not be 'const'
  val=''
  : void pointer has been seen but using that
  : breaks the selectminbits test
  for xxx in 'fd_set *' 'int *'; do
   for nfd in 'int' 'size_t' 'unsigned long' 'unsigned' ; do
    for tmo in 'struct timeval *' 'const struct timeval *'; do
     case "$val" in
     '') try="$extern_C select _(($nfd, $xxx, $xxx, $xxx, $tmo));"
      if ./protochk "$try" $hdrs; then
       echo "Your system accepts $xxx."
       val="$xxx"
      fi
      ;;
     esac
    done
   done
  done
?X: In the unlikely event that none of those worked, prompt the user.
  case "$val" in
  '') rp='What is the type for the 2nd, 3rd, and 4th arguments to select?'
   case "$d_fd_set" in
    $define) dflt="fd_set *" ;;
    *)  dflt="int *" ;;
   esac
   . ./myread
   val=$ans
   ;;
  esac
  selecttype="$val"
  ;;
 *) : no select, so pick a harmless default
  selecttype='int *'
  ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/selecttype.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sgndchr.U,v 3.0.1.2 1997/02/28 15:44:25 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_sgndchr.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:44:25  ram
?RCS: patch61: added a ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  14:00:24  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:16  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sgndchr: cat rm Compile Setvar run
?MAKE: -pick add $@ %<
?S:d_sgndchr:
?S: This variable conditionally defines the SIGNEDCHAR
 symbol, which
?S: indicates to the C program that signed characters are available.
?S:.
?C:SIGNEDCHAR:
?C: This symbol, if defined, indicates that characters are a signed type.
?C: If not defined, things declared as signed characters (and that make
?C: use of negative values) should probably be declared as shorts instead.
?C:.
?H:#$d_sgndchr SIGNEDCHAR /**/
?H:.
?F:!try
?LINT:set d_sgndchr
: check for signed chars
echo " "
echo "Checking to see if your C compiler can do signed chars..." >&4
$cat >try.c <<'EOCP'
int main()
{
 char c = 0;

 c--;
 exit(c >= 0);
```

```
}
EOCP
set try
if eval $compile && $run ./try; then
if $run ./try; then
 val="$define"
 echo "It certainly can."
else
 val="$undef"
 echo "It can't.  I'll have to make some things type short."
fi
set d_sgndchr
eval $setvar
$rm -f try*
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_sgndchr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: startsh.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: startsh.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:25:31  ram
?RCS: patch61: avoid needless chatter since this is now done very early
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:startsh: sh sharpbang eunicefix
?MAKE: -pick add $@ %<
?S:startsh:
?S: This variable contains the string to put on the front of a shell
?S: script to make sure (hopefully) that it runs with sh and not some
?S: other
 shell.
?S:.
?F:!sharp
: figure out how to guarantee sh startup
?X: Avoid needless chatter since this is now done very early.
```

```
?X: echo " "
?X: echo "Checking out how to guarantee sh startup..." >&2
case "$startsh" in
") startsh=${sharpbang}${sh} ;;
*)
?X: echo "Let's see if '$startsh' works..." ;;
esac
cat >sharp <<EOSS
$startsh
set abc
test "$?abc" != 1
EOSS

chmod +x sharp
$eunicefix sharp
if ./sharp; then
 : echo "Yup, it does."
else
 echo "Hmm... '$startsh' does not guarantee sh startup..."
 echo "You may have to fix up the shell scripts to make sure $sh runs them."
fi
rm -f sharp
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/startsh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sigaction.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:44:29  ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_sigaction: Csym Setvar cat cc ccflags ldflags libs rm _o
?MAKE: -pick add $@ %<
?S:d_sigaction:
?S: This variable conditionally defines the HAS_SIGACTION symbol, which
?S: indicates that the Vr4 sigaction() routine is available.
```

```
?S:.
?C:HAS_SIGACTION:
?C: This symbol, if defined, indicates that Vr4's sigaction() routine
?C: is available.
?C:.
?H:#$d_sigaction HAS_SIGACTION /**/
?H:.
?T:val
?LINT:set
 d_sigaction
: see if we have sigaction
echo " "
if set sigaction val -f d_sigaction; eval $csym; $val; then
 echo 'sigaction() found.' >&4
 val="$define"
else
 echo 'sigaction NOT found.' >&4
 val="$undef"
fi
?X:
?X: Solaris 2.5_x86 with SunWorks Pro C 3.0.1 doesn't have a complete
?X: sigaction structure if compiled with cc -Xc.  This compile test
?X: will fail then.  <doughera@lafcol.lafayette.edu>
?X:
$cat > set.c <<'EOP'
#include <stdio.h>
#include <sys/types.h>
#include <signal.h>
int main()
{
   struct sigaction act, oact;
}
EOP
if $cc $ccflags $ldflags -o set set.c $libs >/dev/null 2>&1; then
 :
else
 echo "But you don't seem to have a useable struct sigaction." >&4
 val="$undef"
fi
set d_sigaction; eval $setvar
$rm -f set set$_o set.c
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sigaction.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: siteprefix.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $

```
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: siteprefix.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:siteprefix siteprefixexp +oldsiteprefix: Getfile Loc Oldconfig cat package prefix
?MAKE: -pick add $@ %<
?S:siteprefix:
?S: This variable holds the full absolute path of the directory below
?S: which the user will install add-on packages.
?S: See INSTALL for usage and examples.
?S:.
?S:siteprefixexp:
?S: This variable holds the full absolute path of the
 directory below
?S: which the user will install add-on packages.  Derived from siteprefix.
?S:.
?S:oldsiteprefix:
?S: This variable is set non-null if the siteprefix was previously defined
?S: and gets set to a new value. Used internally by Configure only.
?S:.
: Set the siteprefix variables
$cat <<EOM

After $package is installed, you may wish to install various
add-on modules and utilities.  Typically, these add-ons will
be installed under $prefix with the rest
of this package.  However, you may wish to install such add-ons
elsewhere under a different prefix.

If you do not wish to put everything under a single prefix, that's
ok.  You will be prompted for the individual locations; this siteprefix
is only used to suggest the defaults.

The default should be fine for most people.

EOM
fn=d~+
rp='Installation prefix to use for add-on modules and utilities?'
: XXX Here might be another good place for an installstyle setting.
```

```
case "$siteprefix" in
") dflt=$prefix ;;
*)  dflt=$siteprefix
 ;;
esac
. ./getfile
: XXX Prefixit unit does not yet support siteprefix and vendorprefix
oldsiteprefix=''
case "$siteprefix" in
") ;;
*) case "$ans" in
 "$prefix") ;;
 *) oldsiteprefix="$prefix";;
 esac
 ;;
esac
siteprefix="$ans"
siteprefixexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/siteprefix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_locconv.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_locconv.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:14:11  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_locconv: Inlibc
?MAKE: -pick add $@ %<
?S:d_locconv:
?S: This variable conditionally defines HAS_LOCALECONV if localeconv() is
?S: available for numeric and monetary formatting conventions.
?S:.
?C:HAS_LOCALECONV:
?C: This symbol, if defined, indicates that the localeconv
```

```
 routine is
?C: available for numeric and monetary formatting conventions.
?C:.
?H:#$d_locconv HAS_LOCALECONV /**/
?H:.
?LINT:set d_locconv
: see if localeconv exists
set localeconv d_locconv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_locconv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: usethreads.U,v $
?RCS:
?RCS: Copyright (c) 1998-2000 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: usethreads.U,v $
?RCS:
?MAKE:usethreads useithreads d_oldpthreads usereentrant: \
 Myread Oldconfig Setvar test cat
?MAKE: -pick add $@ %<
?Y:TOP
?S:usethreads:
?S: This variable conditionally defines the USE_THREADS symbol,
?S: and indicates that Perl should be built to use threads.
?S:.
?S:useithreads:
?S: This variable conditionally defines the USE_ITHREADS symbol,
?S: and indicates that Perl should be built to use the interpreter-based
?S: threading implementation.
?S:.
?X: I'm putting old_pthreads in this unit because it might eventually
?X: be part of an automatic determination to see if we can use threads
?X: at all.
?S:d_oldpthreads:
?S: This variable conditionally
 defines the OLD_PTHREADS_API symbol,
?S: and indicates that Perl should be built to use the old
?S: draft POSIX threads API.  This is only potentially meaningful if
?S: usethreads is set.
?S:.
?S:usereentrant:
```

```
?S: This variable conditionally defines the USE_REENTRANT_API symbol,
?S: which indicates that the thread code may try to use the various
?S: _r versions of library functions.  This is only potentially
?S: meaningful if usethreads is set and is very experimental, it is
?S: not even prompted for.
?S:.
?C:USE_ITHREADS:
?C: This symbol, if defined, indicates that Perl should be built to
?C: use the interpreter-based threading implementation.
?C:.
?C:USE_THREADS:
?C: This symbol, if defined, indicates that Perl should
?C: be built to use threads.  At present, it is a synonym for
?C: and USE_ITHREADS, but eventually the source ought to be
?C: changed to use this to mean _any_ threading implementation.
?C:.
?C:OLD_PTHREADS_API:
?C: This symbol, if defined, indicates that Perl should
?C: be
 built to use the old draft POSIX threads API.
?C:.
?C:USE_REENTRANT_API:
?C: This symbol, if defined, indicates that Perl should
?C: try to use the various _r versions of library functions.
?C: This is extremely experimental.
?C:.
?H:#$useithreads USE_ITHREADS  /**/
?H:#$usethreads  USE_THREADS  /**/
?H:#$d_oldpthreads OLD_PTHREADS_API  /**/
?H:#$usereentrant USE_REENTRANT_API /**/
?H:.
?LINT:set usethreads d_oldpthreads
?INIT:: set usethreads on the Configure command line to enable threads.
?INIT:usereentrant='undef'
?F:!usethreads.cbu
: Do we want threads support and if so, what type
?X: We should really have some explanatory text here, and some
?X: automatic setting of sensible defaults.
case "$usethreads" in
$define|true|[yY]*)     dflt='y';;
*)     # Catch case where user specified ithreads but
     # forgot -Dusethreads (A.D. 4/2002)
     case "$useithreads" in
     *$define*) dflt='y';;
     *)  dflt='n';;
     esac
     ;;
esac
```

```
cat <<EOM

Perl can be built to
 offer a form of threading support on some systems
To do so, Configure can be run with -Dusethreads.

Note that Perl built with threading support runs slightly slower
and uses slightly more memory than plain Perl.

If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp='Build a threading Perl?'
. ./myread
case "$ans" in
y|Y)    val="$define" ;;
*)      val="$undef" ;;
esac
set usethreads
eval $setvar

useithreads="$usethreads"

?X: Check out what kind of threads API we have
case "$d_oldpthreads" in
") : Configure tests would be welcome here.  For now, assume undef.
 val="$undef" ;;
*) val="$d_oldpthreads" ;;
esac
set d_oldpthreads
eval $setvar

?X: In general, -lpthread needs to come before -lc but after other
?X: libraries such as -lgdbm and such like. We assume here that -lc
?X: is present in libswanted. If that fails to be true, then this
?X: can be changed to add pthread to the very end of libswanted.

: Look for a hint-file generated 'call-back-unit'.  If the
:
 user has specified that a threading perl is to be built,
: we may need to set or change some other defaults.
if $test -f usethreads.cbu; then
   echo "Your platform has some specific hints regarding threaded builds, using them..."
   . ./usethreads.cbu
else
   case "$usethreads" in
 "$define"|true|[yY]*)
  $cat <<EOM
(Your platform does not have any specific hints for threaded builds.
```

```
Assuming POSIX threads, then.)
EOM
 ;;
   esac
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/usethreads.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_csh.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:32:18  ram
?RCS: patch61: added full_csh to preserve the full path even when portable
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:53  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_csh full_csh: csh Setvar
?MAKE: -pick add $@ %<
?S:d_csh:
?S: This variable conditionally defines the CSH symbol, which
?S: indicates to the C program that the C-shell exists.
?S:.
?S:full_csh:
?S: This variable contains the full pathname to 'csh', whether
 or
?S: not the user has specified 'portability'.  This is only used
?S: in the compiled C program, and we assume that all systems which
?S: can share this executable will have the same full pathname to
?S: 'csh.'
?S:.
?X: Yes, I know about the C symbol PORTABLE, but I think csh
?X: is unlikely to move, and I'm too lazy to add all the
?X: #ifdef PORTABLE sections to the perl source.
?X:
?C:HAS_CSH:
?C: This symbol, if defined, indicates that the C-shell exists.
```

```
?C:.
?C:CSH:
?C: This symbol, if defined, contains the full pathname of csh.
?C:.
?X: Previously, I just did $d_csh CSH "$full_csh", but that caused
?X: problems on VMS where the config.sh extraction program changes
?X: $undef to a real cpp undef, and they then had  #undef CSH ""
?X: which the compiler didn't like.  It's easy to work around this,
?X: so I did.  --AD  3/1998.
?X: And we don't want to define CSH if !HAS_CSH, but we don't want
?X: those lines in config.h if they don't need CSH, so protect with ?CSH
?X: and not
 ?%<. --RAM, 15/02/2004
?H:?%<:#$d_csh HAS_CSH  /**/
?H:?CSH:#ifdef HAS_CSH
?H:?CSH:#define CSH "$full_csh" /**/
?H:?CSH:#endif
?H:.
?LINT:set d_csh
: get csh whereabouts
case "$csh" in
'csh') val="$undef" ;;
*) val="$define" ;;
esac
set d_csh
eval $setvar
: Respect a hint or command line value for full_csh.
case "$full_csh" in
") full_csh=$csh ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_csh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Options.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Options.U,v $
?RCS: Revision 3.0.1.7  1997/02/28  15:08:15  ram
```

```
?RCS: patch61: optdef.sh now starts with a "startsh"
?RCS: patch61: moved some code from Head.U
?RCS:
?RCS: Revision 3.0.1.6  1995/09/25  09:14:46  ram
?RCS: patch59: protected option parsing code against 'echo -*' option failure
?RCS:
?RCS: Revision 3.0.1.5  1995/05/12  12:04:52  ram
?RCS: patch54: added -K option for experts
?RCS:
?RCS: Revision 3.0.1.4  1995/01/30  14:27:52  ram
?RCS:
 patch49: this unit now exports file optdef.sh, not a variable
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:19:00  ram
?RCS: patch45: new -O option allowing -D and -U to override config.sh settings
?RCS: patch45: file optdef.sh is no longer removed after sourcing
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  15:58:06  ram
?RCS: patch36: ensure option definition file is removed before appending
?RCS: patch36: protect variable definitions with spaces in them
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:55:44  ram
?RCS: patch30: now uses new me symbol to tag error messages
?RCS: patch30: new -D and -U options to define/undef symbols (JHI)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Command line parsing. It is really important that the variables used here
?X: be not listed in the MAKE line, or they will be saved in config.sh and
?X: loading this file to fetch default answers would clobber the values set
?X: herein.
?X:
?MAKE:Options:
 startsh
?MAKE: -pick wipe $@ %<
?V:reuseval alldone error realsilent silent extractsh fastread \
 knowitall: config_sh
?T:arg argn symbol config_arg0 config_args config_argc xxx yyy zzz uuu
?T:args_exp args_sep arg_exp ccflags
?F:!Configure
?F:./optdef.sh ./cmdline.opt ./posthint.sh ./cmdl.opt
: Save command line options in file UU/cmdline.opt for later use in
: generating config.sh.
?X: This temporary file will be read by Oldsym.U.  I used a temporary
?X: file to preserve all sorts of potential command line quotes and
?X: also because we don't know in advance how many variables we'll
```

```
?X: need, so I can't actually declare them on the MAKE line.
?X: The config_args variable won't be quite correct if Configure is
?X: fed something like    ./Configure -Dcc="gcc -B/usr/ccs/bin/"
?X: since the quotes are gone by the time we see them.  You'd have to
?X: reconstruct the command line from the config_arg? lines, but since
?X: I don't imagine anyone actually having to do that, I'm not going
?X:
 to worry too much.
cat > cmdline.opt <<EOSH
: Configure command line arguments.
config_arg0='$0'
config_args='$*'
config_argc=$#
EOSH
argn=1
args_exp=''
args_sep=''
for arg in "$@"; do
 cat >>cmdline.opt <<EOSH
config_arg$argn='$arg'
EOSH
?X: Extreme backslashitis: replace each ' by '''''
 cat <<EOC | sed -e "s/'/'''''''''''''''/g" > cmdl.opt
$arg
EOC
 arg_exp=`cat cmdl.opt`
 args_exp="$args_exp$args_sep'$arg_exp'"
 argn=`expr $argn + 1`
 args_sep=' '
done
?X: args_exp is good for restarting self: eval "set X $args_exp"; shift; $0 "$@"
?X: used by hints/os2.sh in Perl, for instance
rm -f cmdl.opt

: produce awk script to parse command line options
cat >options.awk <<'EOF'
BEGIN {
 optstr = "A:dD:eEf:hKOrsSU:V"; # getopt-style specification

 len = length(optstr);
 for (i = 1; i <= len; i++) {
  c = substr(optstr, i, 1);
?X: some older awk's do not have the C ?: construct
  if (i < len) a = substr(optstr, i + 1, 1); else a = "";
  if (a == ":") {
   arg[c] = 1;
   i++;
  }
```

```
  opt[c]
 = 1;
 }
}
{
 expect = 0;
 str = $0;
 if (substr(str, 1, 1) != "-") {
  printf("'%s'\n", str);
  next;
 }
 len = length($0);
 for (i = 2; i <= len; i++) {
  c = substr(str, i, 1);
  if (!opt[c]) {
   printf("-%s\n", substr(str, i));
   next;
  }
  printf("-%s\n", c);
  if (arg[c]) {
   if (i < len)
    printf("'%s'\n", substr(str, i + 1));
   else
    expect = 1;
   next;
  }
 }
}
END {
 if (expect)
  print "?";
}
EOF

: process the command line options
?X: Use "$@" to keep arguments with spaces in them from being split apart.
?X: For the same reason, awk will output quoted arguments and the final eval
?X: removes them and sets a proper $* array. An 'X' is prepended to each
?X: argument before being fed to echo to guard against 'echo -x', where -x
?X: would be understood as an echo option! It is removed before feeding awk.
set X `for arg in "$@"; do echo "X$arg"; done |
 sed -e s/X// | awk -f options.awk`
eval "set $*"
shift
rm -f options.awk

: set up default values
fastread="
```

```
reuseval=false
config_sh=''
alldone=''
error=''
silent=''
extractsh=''
knowitall=''
rm
 -f optdef.sh posthint.sh
cat >optdef.sh <<EOS
$startsh
EOS

?X:
?X: Given that we now have the possibility to execute Configure remotely
?X: thanks to the new src.U support, we have to face the possibility
?X: of having to ask where the source lie, which means we need the Myread.U
?X: stuff and possibly other things that might echo something on the
?X: screen...
?X:
?X: That's not pretty, and might be confusing in 99% of the time. So...
?X: We introduce a new realsilent variable which is set when -s is given,
?X: and we force silent=true if -S is supplied. The Extractall.U unit
?X: will then undo the >&4 redirection based on the value of the
?X: realsilent variable... -- RAM, 18/93/96
?X:

: option parsing
while test $# -gt 0; do
 case "$1" in
 -d) shift; fastread=yes;;
 -e) shift; alldone=cont;;
 -f)
  shift
  cd ..
  if test -r "$1"; then
   config_sh="$1"
  else
   echo "$me: cannot read config file $1."
 >&2
   error=true
  fi
  cd UU
  shift;;
 --help|\
 -h) shift; error=true;;
 -r) shift; reuseval=true;;
 -s) shift; silent=true; realsilent=true;;
```

```
-E) shift; alldone=exit;;
-K) shift; knowitall=true;;
-O) shift;;
-S) shift; silent=true; extractsh=true;;
-D)
 shift
 case "$1" in
 *=)
  echo "$me: use '-U symbol=', not '-D symbol='." >&2
  echo "$me: ignoring -D $1" >&2
  ;;
 *=*) echo "$1" | \
   sed -e "s/'/'\''\''/g" -e "s/=\(.*\)/='\1'/" >> optdef.sh;;
 *) echo "$1='define'" >> optdef.sh;;
 esac
 shift
 ;;
-U)
 shift
 case "$1" in
 *=) echo "$1" >> optdef.sh;;
 *=*)
  echo "$me: use '-D symbol=val', not '-U symbol=val'." >&2
  echo "$me: ignoring -U $1" >&2
  ;;
 *) echo "$1='undef'" >> optdef.sh;;
 esac
 shift
 ;;
-A)
    shift
    xxx=''
    yyy="$1"
    zzz=''
    uuu=undef
    case "$yyy" in
          *=*) zzz=`echo "$yyy"|sed 's!=.*!!'`
               case "$zzz" in
               *:*) zzz='' ;;
               *)   xxx=append

               zzz=' '`echo "$yyy"|sed 's!^[^=]*=!!'`
                    yyy=`echo "$yyy"|sed 's!=.*!!'` ;;
               esac
               ;;
          esac
          case "$xxx" in
          '')  case "$yyy" in
```

```
            *:*) xxx=`echo "$yyy"|sed 's!:.*!!'`
                 yyy=`echo "$yyy"|sed 's!^[^:]*:!!'`
                 zzz=`echo "$yyy"|sed 's!^[^=]*=!!'`
                 yyy=`echo "$yyy"|sed 's!=.*!!'` ;;
            *)   xxx=`echo "$yyy"|sed 's!:.*!!'`
                 yyy=`echo "$yyy"|sed 's!^[^:]*:!!'` ;;
            esac
            ;;
        esac
    case "$xxx" in
    append)
  echo "$yyy=\"\${$yyy}$zzz\"" >> posthint.sh ;;
    clear)
  echo "$yyy=""   >> posthint.sh ;;
    define)
       case "$zzz" in
  ") zzz=define ;;
  esac
  echo "$yyy='$zzz'"  >> posthint.sh ;;
    eval)
  echo "eval \"$yyy=$zzz\"" >> posthint.sh ;;
    prepend)
  echo "$yyy=\"$zzz\${$yyy}\"" >> posthint.sh ;;
    undef)

      case "$zzz" in
  ") zzz="$uuu" ;;
  esac
  echo "$yyy=$zzz"  >> posthint.sh ;;
        *)  echo "$me: unknown -A command '$xxx', ignoring -A $1" >&2 ;;
    esac
    shift
    ;;
 -V) echo "$me generated by metaconfig <VERSION> PL<PATCHLEVEL>." >&2
    exit 0;;
 --) break;;
 -*) echo "$me: unknown option $1" >&2; shift; error=true;;
 *) break;;
 esac
done

case "$error" in
true)
 cat >&2 <<EOM
Usage: $me [-dehrsEKOSV] [-f config.sh] [-D symbol] [-D symbol=value]
            [-U symbol] [-U symbol=] [-A command:symbol...]
 -d : use defaults for all answers.
 -e : go on without questioning past the production of config.sh.
```

```
 -f : specify an alternate default configuration file.
 -h : print this help message and exit (with an error status).
 -r : reuse C symbols value if possible (skips costly nm extraction).
 -s : silent mode, only echoes questions and essential information.
 -D : define symbol to have some value:
      -D symbol               symbol gets the
 value 'define'
      -D symbol='some value'   symbol is set to 'some value'
     common used examples (see INSTALL for more info):
      -Duse64bitint           use 64bit integers
      -Duse64bitall           use 64bit integers and pointers
      -Dusethreads            use thread support
      -Dinc_version_list=none  do not include older perl trees in @INC
      -DEBUGGING=none          DEBUGGING options
      -Dcc=gcc                choose your compiler
      -Dprefix=/opt/perl5      choose your destination
 -E : stop at the end of questions, after having produced config.sh.
 -K : do not use unless you know what you are doing.
 -O : ignored for backward compatibility
 -S : perform variable substitutions on all .SH files (can mix with -f)
 -U : undefine symbol:
      -U symbol    symbol gets the value 'undef'
      -U symbol=   symbol gets completely empty
     e.g.:  -Uversiononly
 -A : manipulate symbol after the platform specific hints
 have been applied:
      -A append:symbol=value   append value to symbol
      -A symbol=value          like append:, but with a separating space
      -A define:symbol=value   define symbol to have value
      -A clear:symbol          define symbol to be ''
      -A define:symbol         define symbol to be 'define'
      -A eval:symbol=value     define symbol to be eval of value
      -A prepend:symbol=value  prepend value to symbol
      -A undef:symbol          define symbol to be 'undef'
      -A undef:symbol=         define symbol to be ''
     e.g.:  -A prepend:libswanted='cl pthread '
          -A ccflags=-DSOME_MACRO
 -V : print version number and exit (with a zero status).
EOM
 exit 1
 ;;
esac

?X:
?X: Unless they specified either -S or both -d and -e/E, make sure we're
?X: running interactively, i.e. attached to a terminal. Moved from Head.U to
?X: be able to handle batch configurations...
?X:
```

```
?X: We have to hardwire the Configure name and
 cannot use $me, since if they
?X: said 'sh <Configure', then $me is 'sh'...
?X:
: Sanity checks
case "$fastread$alldone" in
yescont|yesexit) ;;
*)
 case "$extractsh" in
 true) ;;
 *)
  if test ! -t 0; then
   echo "Say 'sh Configure', not 'sh <Configure'"
   exit 1
  fi
  ;;
 esac
 ;;
esac

?X: In silent mode, the standard output is closed. Questions are asked by
?X: outputing on file descriptor #4, which is the original stdout descriptor.
?X: This filters out all the "junk", since all the needed information is written
?X: on #4. Note that ksh will not let us redirect output if the file descriptor
?X: has not be defined yet, unlike sh, hence the following line...--RAM.
exec 4>&1
case "$silent" in
true) exec 1>/dev/null;;
esac

: run the defines and the undefines, if any, but leave the file out there...
touch optdef.sh
?X: -q is POSIX
?X: It does not work in SysV (solaris) or old BSD greps.
grep '\\' optdef.sh >/dev/null 2>&1
if test $? = 0; then
   echo "Configure does not support \\
 in -D arguments"
   exit 1
fi
. ./optdef.sh
: create the posthint manipulation script and leave the file out there...
?X: this file will be perused by Oldconfig.U
touch posthint.sh
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Options.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_longlong.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_longlong.U,v $
?RCS:
?MAKE:d_longlong longlongsize: Compile Setvar Myread run \
 cat rm_try test longsize
?MAKE: -pick add $@ %<
?S:d_longlong:
?S: This variable conditionally defines HAS_LONG_LONG if
?S: the long long type is supported.
?S:.
?S:longlongsize:
?S: This variable contains the value of the LONGLONGSIZE symbol, which
?S: indicates to the C program how many bytes there are in a long long,
?S: if this system supports long long.
?S:.
?C:HAS_LONG_LONG:
?C: This symbol will be defined if the C compiler supports long long.
?C:.
?C:LONGLONGSIZE:
?C: This symbol contains the size of a long long, so that the
?C: C preprocessor can make decisions based on it.  It is only
?C: defined
 if the system supports long long.
?C:.
?H:#$d_longlong HAS_LONG_LONG  /**/
?H:?LONGLONGSIZE:#ifdef HAS_LONG_LONG
?H:?LONGLONGSIZE:#define LONGLONGSIZE $longlongsize  /**/
?H:?LONGLONGSIZE:#endif
?H:.
?F:!try
?LINT:set d_longlong
: check for long long
echo " "
echo "Checking to see if you have long long..." >&4
echo 'int main() { long long x = 7; return 0; }' > try.c
set try
if eval $compile; then
 val="$define"
 echo "You have long long."
else
```

```
 val="$undef"
 echo "You do not have long long."
fi
$rm_try
set d_longlong
eval $setvar

@if LONGLONGSIZE || longlongsize
: check for length of long long
?X:  Check only if d_longlong and if longlongsize is not already set.
case "${d_longlong}${longlongsize}" in
$define)
 echo " "
 echo "Checking to see how big your long longs are..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
   printf("%d\n", (int)sizeof(long long));
   return(0);
}
EOCP
 set try
 if eval $compile_ok; then
  longlongsize=`$run ./try`
  echo "Your long
 longs are $longlongsize bytes long."
 else
  dflt='8'
  echo " "
  echo "(I can't seem to compile the test program.  Guessing...)"
  rp="What is the size of a long long (in bytes)?"
  . ./myread
  longlongsize="$ans"
 fi
 if $test "X$longsize" = "X$longlongsize"; then
  echo "(That isn't any different from an ordinary long.)"
 fi
 ;;
esac
$rm_try
@end
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_longlong.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_safemcpy.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  15:41:12  ram
?RCS: patch61: improved overlapping copy check
?RCS: patch61: comfort them if they have memmove
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.4  1995/07/25  13:58:46  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.3  1995/03/21  08:47:26  ram
?RCS: patch52: swapped two first arguments of memcpy() calls
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:15:10
  ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:53:12  ram
?RCS: patch23: ensure string is not optimized in read-only memory (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_safemcpy: cat d_memcpy +cc +optimize +ccflags +libs +ldflags rm \
 d_memmove i_memory i_stdlib i_string i_unistd Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_safemcpy:
?S: This variable conditionally defines the HAS_SAFE_MEMCPY symbol if
?S: the memcpy() routine can do overlapping copies.
?S:.
?C:HAS_SAFE_MEMCPY (SAFE_MEMCPY):
?C: This symbol, if defined, indicates that the memcpy routine is available
?C: to copy potentially overlapping memory blocks. Otherwise you should
?C: probably use memmove() or memcpy(). If neither is defined, roll your
?C: own version.
?C:.
?H:#$d_safemcpy HAS_SAFE_MEMCPY /**/
?H:.
?F:!safemcpy
```

```
?LINT: set d_safemcpy
: can memcpy handle overlapping blocks?
?X:
 assume the worst
val="$undef"
case "$d_memcpy" in
"$define")
 echo " "
 echo "Checking to see if your memcpy() can do overlapping copies..." >&4
 $cat >foo.c <<EOCP
#$i_memory I_MEMORY
#$i_stdlib I_STDLIB
#$i_string I_STRING
#$i_unistd I_UNISTD
EOCP
 $cat >>foo.c <<'EOCP'
#include <stdio.h>
#ifdef I_MEMORY
#  include <memory.h>
#endif
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#ifdef I_STRING
#  include <string.h>
#else
#  include <strings.h>
#endif
#ifdef I_UNISTD
#  include <unistd.h>  /* Needed for NetBSD */
#endif
int main()
{
char buf[128], abc[128];
char *b;
int len;
int off;
int align;

/* Copy "abcde..." string to char abc[] so that gcc doesn't
  try to store the string in read-only memory. */
memcpy(abc, "abcdefghijklmnopqrstuvwxyz0123456789", 36);

for (align = 7; align >= 0; align--) {
 for (len = 36; len; len--) {
  b = buf+align;
  memcpy(b, abc, len);
  for (off = 1; off <= len; off++) {
```

```
   memcpy(b+off, b, len);
   memcpy(b, b+off, len);
   if (memcmp(b, abc, len))
    exit(1);
  }
 }
}
exit(0);
}
EOCP
 if
 $cc $optimize $ccflags $ldflags \
      -o safemcpy foo.c $libs >/dev/null 2>&1; then
  if ./safemcpy 2>/dev/null; then
   echo "Yes, it can."
   val="$define"
  else
   echo "It can't, sorry."
   case "$d_memmove" in
   "$define") echo "But that's Ok since you have memmove()." ;;
   esac
  fi
 else
  echo "(I can't compile the test program, so we'll assume not...)"
  case "$d_memmove" in
  "$define") echo "But that's Ok since you have memmove()." ;;
  esac
 fi
 ;;
esac
$rm -f foo.* safemcpy core
set d_safemcpy
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_safemcpy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_float.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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```

```
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_float.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:21:57  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:i_float: Inhdr
?MAKE: -pick add $@ %<
?S:i_float:
?S: This variable conditionally defines the I_FLOAT symbol, and indicates
?S: whether a C program may include <float.h> to get symbols like DBL_MAX
?S: or DBL_MIN, i.e. machine dependent floating point values.
?S:.
?C:I_FLOAT:
?C: This
 symbol, if defined, indicates to the C program that it should
?C: include <float.h> to get definition of symbols like DBL_MAX or
?C: DBL_MIN, i.e. machine dependent floating point values.
?C:.
?H:#$i_float I_FLOAT  /**/
?H:.
?LINT:set i_float
: see if this is a float.h system
set float.h i_float
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_float.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_scalbn: Inlibc
?MAKE: -pick add $@ %<
?S:d_scalbn:
?S: This variable conditionally defines the HAS_SCALBN symbol, which
?S: indicates to the C program that the scalbn() routine is available.
?S:.
?C:HAS_SCALBN:
?C: This symbol, if defined, indicates that the scalbn routine is
?C: available to multiply floating-point number by integral power
?C: of radix.
?C:.
?H:#$d_scalbn HAS_SCALBN  /**/
?H:.
```

```
?LINT:set d_scalbn
: see if scalbn exists
set scalbn d_scalbn
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_scalbn.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Oldconfig.U,v $
?RCS: Revision 3.0.1.10  1997/02/28  15:06:39  ram
?RCS: patch61: added support for src.U
?RCS: patch61: new OSNAME define
?RCS: patch61: can now sense new OSes
?RCS:
?RCS: Revision 3.0.1.9  1995/07/25  13:40:51  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.8  1995/05/12  12:04:18  ram
?RCS: patch54: config.sh reload logic now knows about new -K switch
?RCS: patch54: cleaned up and extended osvers for DEC OSF/1 (ADO)
?RCS: patch54: added MachTen detection
 (ADO)
?RCS:
?RCS: Revision 3.0.1.7  1995/02/15  14:13:41  ram
?RCS: patch51: adapted osvers computation for AIX (ADO)
?RCS:
?RCS: Revision 3.0.1.6  1995/01/30  14:27:15  ram
?RCS: patch49: unit Options.U now exports file optdef.sh, not a variable
?RCS: patch49: update code for myuname changed (WED)
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:15:36  ram
?RCS: patch45: added quotes around the INITPROG variable (ADO)
?RCS: patch45: allows variable overriding after config file loading
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  15:57:05  ram
?RCS: patch36: added ?F: line for metalint file checking
```

```
?RCS: patch36: merged with the version used for perl5's Configure (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/05/06  14:24:17  ram
?RCS: patch23: added support for osf1 hints
?RCS: patch23: new support for solaris and i386 systems (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:05:02  ram
?RCS: patch16: added post-processing on myuname for Xenix targets
?RCS: patch16: message proposing config.sh
 defaults made consistent
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  15:56:32  ram
?RCS: patch10: force use of config.sh when -d option is used (WAD)
?RCS: patch10: complain about non-existent hint files (WAD)
?RCS: patch10: added Options dependency for fastread variable
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:12  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit tries to remember what we did last time we ran Configure, mostly
?X: for the sake of setting defaults.
?X:
?MAKE:Oldconfig hint myuname osname osvers: Instruct Myread Checkcc \
 Mksymlinks Loc Options Tr src trnl ln uname sh awk sed test cat grep \
 rm lns tr n c contains targetarch
?MAKE: -pick wipe $@ %<
?S:myuname:
?S: The output of 'uname -a' if available, otherwise the hostname. On Xenix,
?S: pseudo variables assignments in the output are stripped, thank you. The
?S: whole thing is then lower-cased.
?S:.
?S:hint:
?S: Gives the type of hints used for previous answers. May be one of
?S: "default",
 "recommended" or "previous".
?S:.
?S:osname:
?S: This variable contains the operating system name (e.g. sunos,
?S: solaris, hpux, etc.).  It can be useful later on for setting
?S: defaults.  Any spaces are replaced with underscores.  It is set
?S: to a null string if we can't figure it out.
?S:.
?S:osvers:
?S: This variable contains the operating system version (e.g.
?S: 4.1.3, 5.2, etc.).  It is primarily used for helping select
?S: an appropriate hints file, but might be useful elsewhere for
?S: setting defaults.  It is set to '' if we can't figure it out.
```

```
?S: We try to be flexible about how much of the version number
?S: to keep, e.g. if 4.1.1, 4.1.2, and 4.1.3 are essentially the
?S: same for this package, hints files might just be os_4.0 or
?S: os_4.1, etc., not keeping separate files for each little release.
?S:.
?C:OSNAME:
?C: This symbol contains the name of the operating system, as determined
?C: by Configure.  You shouldn't rely on it too much; the specific
?C: feature
 tests from Configure are generally more reliable.
?C:.
?C:OSVERS:
?C: This symbol contains the version of the operating system, as determined
?C: by Configure.  You shouldn't rely on it too much; the specific
?C: feature tests from Configure are generally more reliable.
?C:.
?H:#define OSNAME "$osname"  /**/
?H:#define OSVERS "$osvers"  /**/
?H:.
?F:!config.sh
?T:tmp tmp_n tmp_c tmp_sh file
?T:xxxxfile xxxfile xxfile xfile hintfile newmyuname
?T:tans _ isesix INITPROG DJGPP has_uname
?D:osname="
?LINT:change n c sh
?LINT:extern hostarch
?LINT:change hostarch
: Determine the name of the machine
myuname=`$uname -a 2>/dev/null`
$test -z "$myuname" && myuname=`hostname 2>/dev/null`
?X: Special mention for Xenix, whose 'uname -a' gives us output like this:
?X:  sysname=XENIX
?X:  nodename=whatever
?X:  release=2.3.2 .. etc...
?X: Therefore, we strip all this variable assignment junk and remove all the
?X: new lines to keep the myuname variable sane... --RAM
myuname=`echo $myuname | $sed -e
 's/^[^=]*=//' -e 's/\///g' | \
 ./tr '[A-Z]' '[a-z]' | $tr $trnl ' '`
?X: Save the value we just computed to reset myuname after we get done here.
newmyuname="$myuname"
$test -f "$uname$_exe" && has_uname=y

: Guessing of the OS name -- half the following guesses are probably wrong...
: If you have better tests or hints, please send them to the metaconfig
: authors and to <MAINTLOC>
$test -f /irix && osname=irix
$test -f /xenix && osname=sco_xenix
```

```
$test -f /dynix && osname=dynix
$test -f /dnix && osname=dnix
$test -f /lynx.os && osname=lynxos
$test -f /unicos && osname=unicos && osvers=`$uname -r`
$test -f /unicosmk && osname=unicosmk && osvers=`$uname -r`
$test -f /unicosmk.ar && osname=unicosmk && osvers=`$uname -r`
$test -f /bin/mips && /bin/mips && osname=mips
$test -d /NextApps && set X `hostinfo | $grep 'NeXT Mach.*:' | \
 $sed -e 's/://' -e 's/\./_/'` && osname=next && osvers=$4
$test -d /usr/apollo/bin && osname=apollo
$test -f /etc/saf/_sactab && osname=svr4
$test -d /usr/include/minix
 && osname=minix
$test -f /system/gnu_library/bin/ar.pm && osname=vos
if $test -d /MachTen -o -d /MachTen_Folder; then
?X:  MachTen uname -a output looks like
?X:  xxx 4 0.0 Macintosh
?X:  MachTen /sbin/version output looks like
?X:  MachTen 4.0 Mon Aug 28 10:18:00 1995
?X:  MachTen 3.x had the 'version' command in /usr/etc/version.
 osname=machten
 if $test -x /sbin/version; then
  osvers=`/sbin/version | $awk '{print $2}' |
  $sed -e 's/[A-Za-z]$//'`
 elif $test -x /usr/etc/version; then
  osvers=`/usr/etc/version | $awk '{print $2}' |
  $sed -e 's/[A-Za-z]$//'`
 else
  osvers="$2.$3"
 fi
fi
$test -f /sys/posix.dll &&
 $test -f /usr/bin/what &&
 set X `/usr/bin/what /sys/posix.dll` &&
 $test "$3" = UWIN &&
 osname=uwin &&
 osvers="$5"
?X: If we have uname, we already computed a suitable uname -a output, correctly
?X: formatted for Xenix, and it lies in $myuname.
if $test "X$has_uname" != X; then
 set X $myuname
 shift
 case "$5" in
 fps*) osname=fps ;;
 mips*)
  case "$4"
 in
  umips) osname=umips ;;
```

```
  *) osname=mips ;;
  esac;;
 [23]100) osname=mips ;;
 next*) osname=next ;;
?X: Interactive Unix.
 i386*)
  tmp=`/bin/uname -X 2>/dev/null|awk '/3\.2v[45]/{ print $(NF) }'`
  if $test "$tmp" != "" -a "$3" = "3.2" -a -f '/etc/systemid'; then
   osname='sco'
   osvers=$tmp
  elif $test -f /etc/kconfig; then
   osname=isc
   if $test "$lns" = "$ln -s"; then
    osvers=4
   elif $contains _SYSV3 /usr/include/stdio.h > /dev/null 2>&1 ; then
    osvers=3
   elif $contains _POSIX_SOURCE /usr/include/stdio.h > /dev/null 2>&1 ; then
    osvers=2
   fi
  fi
  tmp=''
  ;;
?X: MS-DOS djgpp uname -a output looks like:
?X: ms-dos xxx 6 22 pc
?X:  $1 is the "dos flavor" (need not be "ms-dos").
?X:  $2 is the node name
?X:  $3 and $4 are version/subversion
?X:  $5 is always "pc", but that might not be unique to DJGPP.
?X: (e.g. Solaris_x86 has $5 = i86pc, which doesn't actually conflict,
?X: but it's close enought that I can easily imagine other vendors also
?X: using variants
 of pc* in $5.)
?X:  The "DJGPP" environment variable is always set when djgpp is active.
 pc*)
  if $test -n "$DJGPP"; then
   osname=dos
   osvers=djgpp
  fi
  ;;
 esac
 case "$1" in
 aix) osname=aix
?X: aix 4.1 uname -a output looks like
?X:  AIX  foo  1 4 000123456789
?X: where $4 is the major release number and $3 is the (minor) version.
?X: More detail on the version is available with the oslevel command.
?X: in 3.2.x, it output a string (see case statements below).  In 4.1,
?X: it puts out something like  4.1.1.0
```

```
 tmp=`( (oslevel) 2>/dev/null || echo "not found") 2>&1`
 case "$tmp" in
 'not found') osvers="$4"."$3" ;;
 '<3240'|'<>3240') osvers=3.2.0 ;;
 '=3240'|'>3240'|'<3250'|'<>3250') osvers=3.2.4 ;;
 '=3250'|'>3250') osvers=3.2.5 ;;
 *) osvers=$tmp;;
 esac
 ;;
bsd386) osname=bsd386
 osvers=`$uname -r`
 ;;
cygwin*) osname=cygwin
 osvers="$3"
 ;;
*dc.osx) osname=dcosx
 osvers="$3"
 ;;
dnix) osname=dnix
 osvers="$3"
 ;;
domainos) osname=apollo
 osvers="$3"
 ;;
dgux)
osname=dgux
 osvers="$3"
 ;;
?X:  uname -a returns
?X:  DYNIX/ptx xxx 4.0 V4.1.2 i386
dynixptx*) osname=dynixptx
 osvers=`echo "$4"|sed 's/^v//'`
 ;;
freebsd) osname=freebsd
 osvers="$3" ;;
genix) osname=genix ;;
?X: HP-UX uname -a gives something like
?X: HP-UX foobar B.10.20 A 9000/735 2016483812 two-user license
?X: Preserve the full 10.20 string instead of the previous plain '10'.
?X:  Thanks to Graham Barr.    --AD 6/30/1998
hp*) osname=hpux
 osvers=`echo "$3" | $sed 's,.*\.\([0-9]*\.[0-9]*\),\1,'`
 ;;
irix*) osname=irix
 case "$3" in
 4*) osvers=4 ;;
 5*) osvers=5 ;;
 *) osvers="$3" ;;
```

```
 esac
 ;;
linux) osname=linux
 case "$3" in
 *) osvers="$3" ;;
 esac
 ;;
MiNT) osname=mint
 ;;
netbsd*) osname=netbsd
 osvers="$3"
 ;;
news-os) osvers="$3"
 case "$3" in
 4*) osname=newsos4 ;;
 *) osname=newsos ;;
 esac
 ;;
next*) osname=next ;;
nonstop-ux) osname=nonstopux ;;
openbsd) osname=openbsd
   osvers="$3"
   ;;
POSIX-BC | posix-bc
) osname=posix-bc
 osvers="$3"
 ;;
powerux | power_ux | powermax_os | powermaxos | \
powerunix | power_unix) osname=powerux
 osvers="$3"
 ;;
qnx) osname=qnx
 osvers="$4"
 ;;
solaris) osname=solaris
 case "$3" in
 5*) osvers=`echo $3 | $sed 's/^5/2/g'` ;;
 *) osvers="$3" ;;
 esac
 ;;
sunos) osname=sunos
 case "$3" in
 5*) osname=solaris
  osvers=`echo $3 | $sed 's/^5/2/g'` ;;
 *) osvers="$3" ;;
 esac
 ;;
titanos) osname=titanos
```

```
 case "$3" in
 1*) osvers=1 ;;
 2*) osvers=2 ;;
 3*) osvers=3 ;;
 4*) osvers=4 ;;
 *) osvers="$3" ;;
 esac
 ;;
ultrix) osname=ultrix
 osvers="$3"
 ;;
osf1|mls+) case "$5" in
 alpha)
?X: DEC OSF/1 myuname -a output looks like:  osf1 xxxx t3.2 123.4 alpha
?X: where the version number can be something like [xvt]n.n
  osname=dec_osf
?X: sizer knows the minor minor version: the letter
  osvers=`sizer -v | awk '{print $3}' | \
   ./tr '[A-Z]' '[a-z]' | sed 's/^[xvt]//'`
  case "$osvers" in
  [1-9].[0-9]*) ;;
  *) osvers=`echo
"$3" | sed 's/^[xvt]//'` ;;
  esac
  ;;
 hp*) osname=hp_osf1 ;;
 mips) osname=mips_osf1 ;;
?X: hp and mips were unsupported Technology Releases -- ADO, 24/10/94
 esac
 ;;
unixware) osname=svr5
 osvers="$4"
 ;;
uts) osname=uts
 osvers="$3"
 ;;
vos) osvers="$3"
 ;;
$2) case "$osname" in
 *isc*) ;;
 *freebsd*) ;;
 svr*)
  : svr4.x or possibly later
  case "svr$3" in
  ${osname}*)
   osname=svr$3
   osvers=$4
   ;;
```

```
  esac
  case "$osname" in
  svr4.0)
   : Check for ESIX
   if $test -f /stand/boot ; then
    eval `$grep '^INITPROG=[a-z/0-9]*$' /stand/boot`
    if $test -n "$INITPROG" -a -f "$INITPROG"; then
     isesix=`strings -a $INITPROG | \
      $grep 'ESIX SYSTEM V/386 Release 4.0'`
     if $test -n "$isesix"; then
      osname=esix4
     fi
    fi
   fi
   ;;
  esac
  ;;
 *) if $test -f /etc/systemid; then
   osname=sco
   set `echo $3 | $sed 's/\./ /g'` $4
   if $test -f $src/hints/sco_$1_$2_$3.sh; then
    osvers=$1.$2.$3
   elif $test
-f $src/hints/sco_$1_$2.sh; then
    osvers=$1.$2
   elif $test -f $src/hints/sco_$1.sh; then
    osvers=$1
   fi
  else
   case "$osname" in
   ") : Still unknown.  Probably a generic Sys V.
    osname="sysv"
    osvers="$3"
    ;;
   esac
  fi
  ;;
 esac
 ;;
*) case "$osname" in
 ") : Still unknown.  Probably a generic BSD.
  osname="$1"
  osvers="$3"
  ;;
 esac
 ;;
esac
else
```

```
?X: Try to identify sony's NEWS-OS (BSD unix)
 if $test -f /vmunix -a -f $src/hints/news_os.sh; then
  (what /vmunix | UU/tr '[A-Z]' '[a-z]') > UU/kernel.what 2>&1
  if $contains news-os UU/kernel.what >/dev/null 2>&1; then
   osname=news_os
  fi
  $rm -f UU/kernel.what
?X: Maybe it's OS/2 or DOS or something similar
 elif $test -d c:/.; then
  set X $myuname
  osname=os2
  osvers="$5"
 fi
fi

: Try to determine whether config.sh was made on this system
case "$config_sh" in
")
?X: indentation wrong on purpose--RAM
dflt=n
case "$knowitall" in
")
 if test -f ../config.sh; then
  if $contains
 myuname= ../config.sh >/dev/null 2>&1; then
   eval "`$grep myuname= ../config.sh`"
  fi
  if test "X$myuname" = "X$newmyuname"; then
   dflt=y
  fi
 fi
 ;;
*) dflt=y;;
esac

: Get old answers from config file if it was generated on the same system
hint=default
if $test -f ../config.sh; then
 echo " "
 rp="I see a config.sh file.  Shall I use it to set the defaults?"
 . ./myread
 case "$ans" in
 n*|N*) echo "OK, I'll ignore it."
  mv ../config.sh ../config.sh.old
  myuname="$newmyuname"
  ;;
 *)  echo "Fetching default answers from your old config.sh file..." >&4
  tmp_n="$n"
```

```
  tmp_c="$c"
  tmp_sh="$sh"
  . ../config.sh
  cp ../config.sh .
  n="$tmp_n"
  c="$tmp_c"
  hint=previous
  ;;
 esac
fi
?X: remember, case indentation is wrong--RAM
;;
*)
 echo " "
 echo "Fetching default answers from $config_sh..." >&4
 tmp_n="$n"
 tmp_c="$c"
 tmp_sh="$sh"
 cd ..
?X: preserve symbolic links, if any
 cp $config_sh config.sh 2>/dev/null
 chmod +w config.sh
 . ./config.sh
 cd UU
 cp ../config.sh
 .
 n="$tmp_n"
 c="$tmp_c"
 hint=previous
 ;;
esac
?X: Older versions did not always set $sh.
case "$sh" in
") sh="$tmp_sh" ;;
esac
$test "$override" && . ./optdef.sh

: Restore computed paths
for file in $loclist $trylist; do
 eval $file="\$_$file"
done

. ./checkcc
?X: Cross-compiling support
case "$targetarch" in
") ;;
*)  hostarch=$osname
 osname=`echo $targetarch|sed 's,^[^-]*-,,'`
```

```
 osvers="
 ;;
esac

@if {test -d ../hints}
: Offer them some hints based on their OS
cd ..
?X: Since we are now at the root of the source tree, we must use $src
?X: to access the sources and not $rsrc. See src.U for details...
if $test ! -f config.sh; then
 $cat <<EOM

First time through, eh?  I have some defaults handy for some systems
that need some extra help getting the Configure answers right:

EOM
 (cd $src/hints; ls -C *.sh) | $sed 's/\.sh/   /g' >&4
 dflt="

 : Now look for a hint file osname_osvers, unless one has been
 : specified already.
 case "$hintfile" in
 "|' ')
  file=`echo "${osname}_${osvers}"
 | $sed -e 's%\.%_%g' -e 's%_$%%'`
  : Also try without trailing minor version numbers.
  xfile=`echo $file | $sed -e 's%_[^_]*$%%'`
  xxfile=`echo $xfile | $sed -e 's%_[^_]*$%%'`
  xxxfile=`echo $xxfile | $sed -e 's%_[^_]*$%%'`
  xxxxfile=`echo $xxxfile | $sed -e 's%_[^_]*$%%'`
  case "$file" in
  ") dflt=none ;;
  *)  case "$osvers" in
   ") dflt=$file
    ;;
   *)  if $test -f $src/hints/$file.sh ; then
     dflt=$file
    elif $test -f $src/hints/$xfile.sh ; then
     dflt=$xfile
    elif $test -f $src/hints/$xxfile.sh ; then
     dflt=$xxfile
    elif $test -f $src/hints/$xxxfile.sh ; then
     dflt=$xxxfile
    elif $test -f $src/hints/$xxxxfile.sh ; then
     dflt=$xxxxfile
    elif $test -f "$src/hints/${osname}.sh" ; then
     dflt="${osname}"
    else
```

```
    dflt=none
   fi
   ;;
  esac
  ;;
 esac
 if $test -f Policy.sh ; then
  case "$dflt" in
  *Policy*) ;;
  none) dflt="Policy" ;;
  *) dflt="Policy $dflt" ;;
  esac
 fi
 ;;
*)
 dflt=`echo
$hintfile | $sed 's/\.sh$//'`
 ;;
esac

if $test -f Policy.sh ; then
 $cat <<EOM

There's also a Policy hint file available, which should make the
site-specific (policy) questions easier to answer.
EOM

 fi

 $cat <<EOM

You may give one or more space-separated answers, or "none" if appropriate.
A well-behaved OS will have no hints, so answering "none" or just "Policy"
is a good thing.  DO NOT give a wrong version or a wrong OS.

EOM

 rp="Which of these apply, if any?"
 . UU/myread
 tans=$ans
 for file in $tans; do
  if $test X$file = XPolicy -a -f Policy.sh; then
   . Policy.sh
   $cat Policy.sh >> UU/config.sh
  elif $test -f $src/hints/$file.sh; then
   . $src/hints/$file.sh
   $cat $src/hints/$file.sh >> UU/config.sh
  elif $test X"$tans" = X -o X"$tans" = Xnone ; then
```

```
  : nothing
 else
  : Give one chance to correct a possible typo.
  echo "$file.sh does not exist"
  dflt=$file
  rp="hint to use instead?"
  . UU/myread
  for file in $ans; do
   if $test -f "$src/hints/$file.sh";
then
    . $src/hints/$file.sh
    $cat $src/hints/$file.sh >> UU/config.sh
   elif $test X$ans = X -o X$ans = Xnone ; then
    : nothing
   else
    echo "$file.sh does not exist -- ignored."
   fi
  done
 fi
done

hint=recommended
: Remember our hint file for later.
if $test -f "$src/hints/$file.sh" ; then
 hintfile="$file"
else
 hintfile=''
fi
fi
cd UU
?X: From here on, we must use $rsrc instead of $src

@end
: Process their -A options
. ./posthint.sh

@if osname || osvers
: Ask them to confirm the OS name
cat << EOM

Configure uses the operating system name and version to set some defaults.
The default value is probably right if the name rings a bell. Otherwise,
since spelling matters for me, either accept the default or answer "none"
to leave it blank.

EOM
@end
@if osname
```

```
case "$osname" in
 "|' ')
  case "$hintfile" in
  "|' '|none) dflt=none ;;
  *)  dflt=`echo $hintfile | $sed -e 's/\.sh$//' -e 's/_.*$//'` ;;
  esac
  ;;
 *) dflt="$osname" ;;
esac
rp="Operating
 system name?"
. ./myread
case "$ans" in
none)  osname=" ;;
*) osname=`echo "$ans" | $sed -e 's/[  ][ ]*/_/g' | ./tr '[A-Z]' '[a-z]'`;;
esac
@end
@if osvers
@if osname
echo " "
@end
case "$osvers" in
 "|' ')
  case "$hintfile" in
  "|' '|none) dflt=none ;;
  *) dflt=`echo $hintfile | $sed -e 's/\.sh$//' -e 's/^[^_]*//'`
   dflt=`echo $dflt | $sed -e 's/^_//' -e 's/_/./g'`
   case "$dflt" in
   "|' ') dflt=none ;;
   esac
   ;;
  esac
  ;;
 *) dflt="$osvers" ;;
esac
rp="Operating system version?"
. ./myread
case "$ans" in
none)  osvers=" ;;
*) osvers="$ans" ;;
esac

@end
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Oldconfig.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Myinit.U,v 3.0 1993/08/18 12:05:07 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: Myinit.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: If you want to initialize any default values, copy this unit to your
?X: personal U directory and add the assignments to the end.  This file
?X: is included after variables are initialized but before any old
?X: config.sh file is read in and before any Configure switch processing.
?X:
?MAKE:Myinit
 libswanted: Init
?MAKE: -pick add $@ %<
?S:libswanted:
?S: This variable holds a list of all the libraries we want to
?S: search.  The order is chosen to pick up the c library
?S: ahead of ucb or bsd libraries for SVR4.
?S:.
?LINT:extern usevfork glibpth
?LINT:change usevfork glibpth
: List of libraries we want.
?X: Put crypt here, even though I should really fix d_crypt.U to look
?X: for it correctly, including possible shared library versions.
: If anyone needs extra -lxxx, put those in a hint file.
libswanted="cl pthread socket bind inet nsl ndbm gdbm dbm db malloc dl ld"
libswanted="$libswanted sun m crypt sec util c cposix posix ucb bsd BSD"
: We probably want to search /usr/shlib before most other libraries.
: This is only used by the lib/ExtUtils/MakeMaker.pm routine extliblist.
glibpth=`echo " $glibpth " | sed -e 's! /usr/shlib ! !'`
glibpth="/usr/shlib $glibpth"
: Do not use vfork unless overridden by a hint file.
usevfork=false
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/modified/Myinit.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_stdbool.U,v $
?RCS:
?RCS: Copyright (c) 2011 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_stdbool: cat Compile rm_try Setvar
?MAKE: -pick add $@ %<
?S:i_stdbool:
?S: This variable conditionally defines the I_STDBOOL symbol, which
?S: indicates to the C program that <stdbool.h> exists and should
?S: be included.
?S:.
?C:I_STDBOOL:
?C: This symbol, if defined, indicates that <stdbool.h> exists and
?C: can be included.
?C:.
?H:#$i_stdbool I_STDBOOL  /**/
?H:.
?LINT:set i_stdbool
: see if stdbool is available
: we want a real compile instead of Inhdr because some Solaris systems
: have stdbool.h, but it can only be used if the compiler indicates it
: is sufficiently c99-compliant.
echo " "
$cat >try.c <<EOCP
#include <stdio.h>
#include <stdbool.h>
int func(bool x)
{
   return
 x ? 1 : 0;
}
int main(int argc, char **argv)
{
   return func(0);
}
EOCP
set try
if eval $compile; then
 echo "<stdbool.h> found." >&4
 val="$define"
else
 echo "<stdbool.h> NOT found." >&4
```

```
 val="$undef"
fi
$rm_try
set i_stdbool
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_stdbool.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strchr.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strchr.U,v $
?RCS: Revision 3.0.1.2  1993/10/16  13:49:20  ram
?RCS: patch12: added support for HAS_INDEX
?RCS: patch12: added magic for index() and rindex()
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:05:26  ram
?RCS: patch10: now only defines HAS_STRCHR, no macro remap of index (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:32  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strchr d_index: contains strings Setvar Myread Oldconfig
 Csym
?MAKE: -pick add $@ %<
?S:d_strchr:
?S: This variable conditionally defines HAS_STRCHR if strchr() and
?S: strrchr() are available for string searching.
?S:.
?S:d_index:
?S: This variable conditionally defines HAS_INDEX if index() and
?S: rindex() are available for string searching.
?S:.
?C:HAS_STRCHR:
?C: This symbol is defined to indicate that the strchr()/strrchr()
?C: functions are available for string searching. If not, try the
?C: index()/rindex() pair.
?C:.
```

```
?C:HAS_INDEX:
?C: This symbol is defined to indicate that the index()/rindex()
?C: functions are available for string searching.
?C:.
?H:#$d_strchr HAS_STRCHR /**/
?H:#$d_index HAS_INDEX /**/
?H:.
?M:index: HAS_INDEX
?M:#ifndef HAS_INDEX
?M:#ifndef index
?M:#define index strchr
?M:#endif
?M:#endif
?M:.
?M:rindex: HAS_INDEX
?M:#ifndef HAS_INDEX
?M:#ifndef rindex
?M:#define rindex strrchr
?M:#endif
?M:#endif
?M:.
?T:vali
?LINT:set d_strchr d_index
: index or strchr
echo " "
if set index val -f; eval $csym; $val; then
 if
 set strchr val -f d_strchr; eval $csym; $val; then
  if $contains strchr "$strings" >/dev/null 2>&1 ; then
?X: has index, strchr, and strchr in string header
   val="$define"
   vali="$undef"
   echo "strchr() found." >&4
  else
?X: has index, strchr, and no strchr in string header
   val="$undef"
   vali="$define"
   echo "index() found." >&4
  fi
 else
?X: has only index, no strchr, string header is a moot point
  val="$undef"
  vali="$define"
  echo "index() found." >&4
 fi
else
 if set strchr val -f d_strchr; eval $csym; $val; then
  val="$define"
```

```
  vali="$undef"
  echo "strchr() found." >&4
 else
  echo "No index() or strchr() found!" >&4
  val="$undef"
  vali="$undef"
 fi
fi
set d_strchr; eval $setvar
val="$vali"
set d_index; eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strchr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2009 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getnameinfo: Inlibc
?MAKE: -pick add $@ %<
?S:d_getnameinfo:
?S: This variable conditionally defines the HAS_GETNAMEINFO symbol,
?S: which indicates to the C program that the getnameinfo() function
?S: is available.
?S:.
?C:HAS_GETNAMEINFO:
?C: This symbol, if defined, indicates that the getnameinfo() function
?C: is available for use.
?C:.
?H:#$d_getnameinfo HAS_GETNAMEINFO  /**/
?H:.
?LINT:set d_getnameinfo
: see if getnameinfo exists
set getnameinfo d_getnameinfo
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_getnameinfo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: archlib.U,v 3.1 1999/07/08 18:32:29 doughera Exp doughera $
```

```
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: archlib.U,v $
?RCS: Revision 3.1  1999/07/08 18:32:29  doughera
?RCS: Updated for perl5.005_5x
?RCS:
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:15:18  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/02/15  14:14:14  ram
?RCS: patch51: architecture name is now
 computed by a separate unit
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:32:22  ram
?RCS: patch49: archname is now systematically recomputed
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:02:36  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_archlib archlib archlibexp installarchlib: \
 cat Getfile Setprefixvar Loc Oldconfig archname spackage  \
 privlib sed test Prefixit Prefixup binexp
?MAKE: -pick add $@ %<
?Y:TOP
?S:d_archlib:
?S: This variable conditionally defines ARCHLIB to hold the pathname
?S: of architecture-dependent library files for $package.  If
?S: $archlib is the same as $privlib, then this is set to undef.
?S:.
?D:archlib=''
?S:archlib:
?S: This variable holds the name of the directory in which the user wants
?S: to put architecture-dependent public library files for $package.
?S: It is most often a local directory such as /usr/local/lib.
?S: Programs using this variable must be prepared to deal
?S: with
```

```
 filename expansion.
?S:.
?D:archlibexp="
?S:archlibexp:
?S: This variable is the same as the archlib variable, but is
?S: filename expanded at configuration time, for convenient use.
?S:.
?D:installarchlib="
?S:installarchlib:
?S: This variable is really the same as archlibexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?C:ARCHLIB:
?C: This variable, if defined, holds the name of the directory in
?C: which the user wants to put architecture-dependent public
?C: library files for $package.  It is most often a local directory
?C: such as /usr/local/lib.  Programs using this variable must be
?C: prepared to deal with filename expansion.  If ARCHLIB is the
?C: same as PRIVLIB, it is not defined, since presumably the
?C: program already searches PRIVLIB.
?C:.
?C:ARCHLIB_EXP:
?C: This symbol contains the ~name expanded version of ARCHLIB, to be used
?C: in programs that are not prepared to deal with ~ expansion
 at run-time.
?C:.
?H:#$d_archlib ARCHLIB "$archlib"  /**/
?H:#$d_archlib ARCHLIB_EXP "$archlibexp"  /**/
?H:.
?T: tdflt
?LINT:change prefixvar
?LINT:set archlib
?LINT:set archlibexp
?LINT:set installarchlib
: determine where public architecture dependent libraries go
set archlib archlib
eval $prefixit
: privlib default is /usr/local/lib/$package/$version
: archlib default is /usr/local/lib/$package/$version/$archname
: privlib may have an optional trailing /share.
tdflt=`echo $privlib | $sed 's,/share$,,'`
tdflt=$tdflt/$archname
case "$archlib" in
") dflt=$tdflt
 ;;
*) dflt="$archlib"
   ;;
```

```
esac
$cat <<EOM

$spackage contains architecture-dependent library files.  If you are
sharing libraries in a heterogeneous environment, you might store
these files in a separate location.  Otherwise, you can just include
them with the rest of the public library files.

EOM
?X: Force dependency on bin.U
fn=$binexp
fn=d+~
rp='Where do you want to put the public architecture-dependent libraries?'
.
 ./getfile
prefixvar=archlib
. ./setprefixvar
if $test X"$archlib" = X"$privlib"; then
 d_archlib="$undef"
else
 d_archlib="$define"
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/archlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: longsize.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: longsize.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:09:35  ram
?RCS: patch61: code moved to intsize.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:24:31  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?X:
?X: 'longsize' is now defined within intsize.U
?X:
?LINT: empty
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/longsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: ebcdic.U,v 3.0.1.3 1994/05/06 15:11:49 doughera Exp $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Original author Jarkko Hietaniemi <jhi@iki.fi>
?RCS: Merged into dist by Andy Dougherty  July 13, 1998
?RCS:
?MAKE:ebcdic: Compile Setvar cat rm_try run
?MAKE: -pick add $@ %<
?S:ebcdic:
?S: This variable conditionally defines EBCDIC if this
?S: system uses EBCDIC encoding.
?S:.
?C:EBCDIC:
?C: This symbol, if defined, indicates that this system uses
?C: EBCDIC encoding.
?C:.
?H:#$ebcdic EBCDIC  /**/
?H:.
?F:!try
?LINT:set ebcdic
: Determine if this is an EBCDIC system
echo " "
echo "Determining whether or not we are on an EBCDIC system..." >&4
$cat >try.c <<'EOM'
int main()
{
 if ('M'==0xd4) return 0;
 return 1;
}
EOM

val=$undef
set try
if eval
```

```
 $compile_ok; then
 if $run ./try; then
  echo "You seem to speak EBCDIC." >&4
  val="$define"
 else
  echo "Nope, no EBCDIC, probably ASCII or some ISO Latin. Or UTF-8." >&4
 fi
else
 echo "I'm unable to compile the test program." >&4
 echo "I'll assume ASCII or some ISO Latin. Or UTF8." >&4
fi
$rm_try
set ebcdic
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/ebcdic/ebcdic.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_charsprf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_charsprf.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:49  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_charsprf: cat rm +cc Setvar
?MAKE: -pick add $@ %<
?S:d_charsprf:
?S: This variable conditionally defines CHARSPRINTF if this system
?S: declares "char *sprintf()" in stdio.h.  The trend seems to be to
?S: declare it as "int sprintf()".
?S:.
?C:CHARSPRINTF:
?C: This symbol is defined if this system declares "char *sprintf()" in
?C: stdio.h.
  The trend seems to be to declare it as "int sprintf()".  It
?C: is up to the package author to declare sprintf correctly based on the
?C: symbol.
?C:.
```

```
?H:#$d_charsprf CHARSPRINTF  /**/
?H:.
?F:!ucbsprf.c !ucbsprf
?LINT:set d_charsprf
: see if sprintf is declared as int or pointer to char
echo " "
$cat >ucbsprf.c <<'EOF'
int main()
{
 int sprintf();
 char buf[10];
 exit((unsigned long)sprintf(buf,"%s","foo") > 10L);
}
EOF
if $cc -o ucbsprf ucbsprf.c >/dev/null 2>&1 && ./ucbsprf; then
 echo "Your sprintf() returns (int)." >&4
 val="$undef"
else
 echo "Your sprintf() returns (char*)." >&4
 val="$define"
fi
set d_charsprf
eval $setvar
$rm -f ucbsprf*
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_charsprf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_ieeefp.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_ieeefp: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_ieeefp:
?S: This variable conditionally defines the I_IEEEFP symbol, and indicates
?S: whether a C program should include <ieeefp.h>.
?S:.
?C:I_IEEEFP:
?C: This symbol, if defined, indicates that <ieeefp.h> exists and
?C: should be included.
?C:.
?H:#$i_ieeefp I_IEEEFP  /**/
```

```
?H:.
?LINT:set i_ieeefp
: see if this is a ieeefp.h system
case "$i_ieeefp" in
" ) set ieeefp.h i_ieeefp
    eval $inhdr
    ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_ieeefp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_sysaccess: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysaccess:
?S: This variable conditionally defines the I_SYS_ACCESS symbol,
?S: and indicates whether a C program should include <sys/access.h>.
?S:.
?C:I_SYS_ACCESS:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/access.h>.
?C:.
?H:#$i_sysaccess   I_SYS_ACCESS                /**/
?H:.
?LINT:set i_sysaccess
: see if sys/access.h is available
set sys/access.h i_sysaccess
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/acl/i_sysaccess.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: rcs_branch.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: rcs_branch.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:40  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:rcs_branch: Myread contains Loc
?MAKE: -pick add $@ %<
?S:rcs_branch:
?S: This variable will hold "true" if rcs can take the -b<revision>
?S: option, which can make Life Easier on those folks who like to run
?S: rcsdiff manually.
?S:.
?T:xxx
: Tra la la la la
echo " "
echo "Checking to see if RCS understands the -b switch..." >&4
xxx=`./loc
 rcs " $pth`
case "$xxx" in
")
 rcs_branch=false
 echo "Oh.  You don't seem to have RCS here."
 ;;
*)
 rcs > rcsbranch.out 2>&1
 if $contains 'b\[rev\]' rcsbranch.out  >/dev/null 2>&1 ; then
  rcs_branch=true
  echo "Nice!  Your RCS is spiffy!"
 else
  rcs_branch=false
 echo "Well, at least you have RCS.  You know, a newer version is available."
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/rcs_branch.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Prefixup.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Prefixup.U,v $
?RCS: Revision 3.0.1.1  1995/01/30  14:30:40  ram
?RCS: patch49: created
?RCS:
?X:
?X: Used as: "set dflt; eval $prefixup" to set $dflt to be $prefix/dir
?X: instead of $prefixexp/dir, in case portability was involved somehow
?X: and $prefix uses ~name expansion.
?X:
?MAKE:Prefixup: prefix prefixexp
?MAKE: -pick add $@ %<
?LINT:define prefixup
?S:prefixup:
?S: This shell variable is used internally by Configure to reset
?S: the leading
 installation prefix correctly when $prefix uses
?S: ~name expansion.
?S:  set dflt
?S:  eval $prefixup
?S: That will set $dflt to $prefix/dir if it was $prefixexp/dir and
?S: $prefix differs from $prefixexp.
?S:.
?V:prefixup
: set the prefixup variable, to restore leading tilda escape
prefixup='case "$prefixexp" in
"$prefix") ;;
*) eval "$1=\`echo \$$1 | sed \"s,^$prefixexp,$prefix,\"\`";;
esac'
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Prefixup.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Config_h.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Config_h.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  14:57:43  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:10:49  ram
?RCS: patch59: commented the purpose of the #un-def directive
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:25:39  ram
?RCS: patch49: typo fixes in leading config.h comment (WED)
?RCS:
?RCS: Revision 3.0.1.2  1993/08/24  12:13:20  ram
?RCS: patch3: added TOP as a local shell temporary variable
?RCS:
?RCS:
 Revision 3.0.1.1  1993/08/19  06:42:20  ram
?RCS: patch1: leading config.sh searching was not aborting properly
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file ends up producing the config_h.SH script, which is run to produce
?X: the config.h file.  The file ./.Config_h below contains all the ?H: lines
?X: extracted out of all the units.  Metaconfig itself adds the !GROK!THIS!.
?X: Note that this code isn't included into Configure, but must be shipped with.
?X:
?X: For those who wish to know why the file is config_h.SH instead of the more
?X: natural config.h.SH, well... it is to support systems like MS-DOG. Only one
?X: 'dot' is allowed within the file name, as it is part of the "extension" of
?X: the file. MS-DOG will not let you have two 'dots' because that would mean
?X: two "extensions".
?X:
?MAKE:Config_h: Id End Config_sh Obsol_h myuname cf_time cf_by package src
?MAKE: -pick c_h_weed $@ %<
?MAKE: -pick
 c_h_weed $@ ./Config_h
?MAKE: -pick c_h_weed $@ ./Obsol_h
?T:PERL_CONFIG_SH TOP
?LINT:unclosed !GROK!THIS!
?LINT:extern CONFIG_H CONFIG_SH
?LINT:change CONFIG_H CONFIG_SH
?X:?LINT:nocomment
: Set up for generating config_h.SH
```

```
case "$CONFIG_SH" in
") CONFIG_SH=config.sh;;
esac
case "$CONFIG_H" in
") CONFIG_H=config.h;;
esac
case $PERL_CONFIG_SH in
")
 if test -f $CONFIG_SH; then TOP=.;
 elif test -f ../$CONFIG_SH; then TOP=..;
 elif test -f ../../$CONFIG_SH; then TOP=../..;
 elif test -f ../../../$CONFIG_SH; then TOP=../../..;
 elif test -f ../../../../$CONFIG_SH; then TOP=../../../..;
 else
  echo "Can't find $CONFIG_SH."; exit 1
 fi
 . $TOP/$CONFIG_SH
 ;;
esac
?X: Make sure we are in the directory where the .SH file is located.
case "$0" in
*/*) cd `expr X$0 : 'X\(.*\)/'` ;;
esac
echo "Extracting $CONFIG_H (with variable substitutions)"
?X:
?X: Since we unconditionally translate leading #undef into /*#define, we're
?X: stuck when we really want to have a #undef in $CONFIG_H.
 That's why there
?X: is provision here for #un-def, which is translated back into #undef after
?X: all original #undef have been processed.
?X:
?X: Previously, we changed all
?X:  #undef FOO /**/
?X: into
?X:  /*#define FOO /**/
?X: The xlc compiler (available on IBM's AIX) complains that this is
?X: an illegal attempt to write a nested comment, and warns against it.
?X: There's apparently no way to shut the compiler up, either.
?X: This sed command from Hallvard B Furuseth <h.b.furuseth@usit.uio.no>
?X: changes it to
?X:  /*#define FOO / **/
sed <<!GROK!THIS! >$CONFIG_H -e 's!^#undef\(.*/\)\*!/\*#define\1 \*!' -e 's!^#un-def!#undef!'
/* This file was produced by running the config_h.SH script, which
* gets its values from $CONFIG_SH, which is generally produced by
* running Configure.
*
* Feel free to modify any of this as the need arises.  Note, however,
* that running config_h.SH again will wipe out any changes you've made.
```

```
* For a more permanent change edit $CONFIG_SH and
 rerun config_h.SH.
*/

/* Package name      : $package
* Source directory  : $src
* Configuration time: $cf_time
* Configured by     : $cf_by
* Target system     : $myuname
*/

#ifndef _config_h_
#define _config_h_
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Config_h.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2014 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_ptrdiff_t: Inlibc Setvar Compile rm_try cat
?MAKE: -pick add $@ %<
?S:d_ptrdiff_t:
?S: This symbol will be defined if the C compiler supports ptrdiff_t.
?S:.
?C:HAS_PTRDIFF_T:
?C: This symbol will be defined if the C compiler supports ptrdiff_t.
?C:.
?H:#$d_ptrdiff_t HAS_PTRDIFF_T  /**/
?H:.
?LINT:set d_ptrdiff_t
: check for ptrdiff_t
echo " "
echo "Checking to see if you have ptrdiff_t..." >&4
$cat >try.c <<EOCP
#include <stddef.h>
int main() { ptrdiff_t x = 7; }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have ptrdiff_t."
```

```
else
 val="$undef"
 echo "You do not have ptrdiff_t."
fi
$rm_try
set d_ptrdiff_t
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_ptrdiff_t.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getgrnam_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getgrnam_r getgrnam_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_grp extern_C
?MAKE: -pick add $@ %<
?S:d_getgrnam_r:
?S: This variable conditionally defines the HAS_GETGRNAM_R symbol,
?S: which indicates to the C program that the getgrnam_r()
?S: routine is available.
?S:.
?S:getgrnam_r_proto:
?S: This variable encodes the prototype of getgrnam_r.
?S: It is zero if d_getgrnam_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getgrnam_r
?S: is defined.
?S:.
?C:HAS_GETGRNAM_R:
?C: This symbol, if defined, indicates that the getgrnam_r routine
?C: is available to
 getgrnam re-entrantly.
?C:.
?C:GETGRNAM_R_PROTO:
?C: This symbol encodes the prototype of getgrnam_r.
?C: It is zero if d_getgrnam_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getgrnam_r
?C: is defined.
?C:.
?H:#$d_getgrnam_r HAS_GETGRNAM_R /**/
?H:#define GETGRNAM_R_PROTO $getgrnam_r_proto /**/
```

```
?H:.
?T:try hdrs d_getgrnam_r_proto
: see if getgrnam_r exists
set getgrnam_r d_getgrnam_r
eval $inlibc
case "$d_getgrnam_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_grp grp.h"
 case "$d_getgrnam_r_proto:$usethreads" in
 ":define") d_getgrnam_r_proto=define
  set d_getgrnam_r_proto getgrnam_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getgrnam_r_proto" in
 define)
 case "$getgrnam_r_proto" in
 "|0) try='int getgrnam_r(const char*, struct group*, char*, size_t, struct group**);'
 ./protochk "$extern_C $try" $hdrs && getgrnam_r_proto=I_CSBWR ;;
 esac
 case "$getgrnam_r_proto" in
 "|0) try='int getgrnam_r(const char*, struct group*, char*,
 int, struct group**);'
 ./protochk "$extern_C $try" $hdrs && getgrnam_r_proto=I_CSBIR ;;
 esac
 case "$getgrnam_r_proto" in
 "|0) try='struct group* getgrnam_r(const char*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getgrnam_r_proto=S_CBI ;;
 esac
 case "$getgrnam_r_proto" in
 "|0) try='int getgrnam_r(const char*, struct group*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getgrnam_r_proto=I_CSBI ;;
 esac
 case "$getgrnam_r_proto" in
 "|0) try='struct group* getgrnam_r(const char*, struct group*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getgrnam_r_proto=S_CSBI ;;
 esac
 case "$getgrnam_r_proto" in
 "|0) d_getgrnam_r=undef
  getgrnam_r_proto=0
  echo "Disabling getgrnam_r, cannot determine prototype." >&4 ;;
 * ) case "$getgrnam_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getgrnam_r_proto="REENTRANT_PROTO_$getgrnam_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
```

```
 *) case "$usethreads" in
  define) echo "getgrnam_r has no prototype, not using it."
 >&4 ;;
  esac
  d_getgrnam_r=undef
  getgrnam_r_proto=0
  ;;
 esac
 ;;
*) getgrnam_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getgrnam_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_bfd.U,v $
?RCS:
?RCS: Copyright (c) 2014 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_bfd: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_bfd:
?S: This variable conditionally defines the I_BFD symbol, and
?S: indicates whether a C program can include <bfd.h>.
?S:.
?C:I_BFD:
?C: This symbol, if defined, indicates that <bfd.h> exists and
?C: can be included.
?C:.
?H:#$i_bfd I_BFD  /**/
?H:.
?LINT:set i_bfd
: see if this is a bfd.h system
set bfd.h i_bfd
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_bfd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Unix.U,v 3.0.1.1 1997/02/28 15:20:06 ram Exp $
```

```
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Unix.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:20:06  ram
?RCS: patch61: created
?RCS:
?X:
?X: The purpose of this unit is to define things that are common across all
?X: known UNIX platforms. If Configure is ported/used on a non-UNIX
?X: environment, then some of the following variables can be redefined in hint
?X: files.
?X:
?MAKE:Unix _exe _a _o exe_ext lib_ext obj_ext path_sep \
 firstmakefile archobjs rm_try: Oldconfig rm
?MAKE: -pick add $@ %<
?S:_exe:
?S: This
 variable defines the extension used for executable files.
?S: DJGPP, Cygwin and OS/2 use '.exe'.  Stratus VOS uses '.pm'.
?S: On operating systems which do not require a specific extension
?S: for executable files, this variable is empty.
?S:.
?S:_a:
?S: This variable defines the extension used for ordinary library files.
?S: For unix, it is '.a'.  The '.' is included.  Other possible
?S: values include '.lib'.
?S:.
?S:_o:
?S: This variable defines the extension used for object files.
?S: For unix, it is '.o'.  The '.' is included.  Other possible
?S: values include '.obj'.
?S:.
?S:firstmakefile:
?S: This variable defines the first file searched by make.  On unix,
?S: it is makefile (then Makefile).  On case-insensitive systems,
?S: it might be something else.  This is only used to deal with
?S: convoluted make depend tricks.
?S:.
?S:archobjs:
?S: This variable defines any additional objects that must be linked
?S: in with the program on this architecture.  On unix, it is usually
```

```
?S: empty.
  It is typically used to include emulations of unix calls
?S: or other facilities.  For perl on OS/2, for example, this would
?S: include os2/os2.obj.
?S:.
?X: Metaconfig's Obsolete symbol stuff is too over-eager.  In the
?X: perl sources, it picks up things like "P" and "FLOCK" that are
?X: not used in the way Metaconfig thinks they are.  Thus I can't
?X: just declare these obsolete and then run metaconfig -o.
?X: Instead, I'll just handle them here.
?X: Sadly, history has conspired to give us a web of definitions;
?X: this could have been much simpler.
?S:lib_ext:
?S: This is an old synonym for _a.
?S:.
?S:exe_ext:
?S: This is an old synonym for _exe.
?S:.
?S:obj_ext:
?S: This is an old synonym for _o.
?S:.
?S:path_sep:
?S: This is an old synonym for p_ in Head.U, the character
?S: used to separate elements in the command shell search PATH.
?S:.
?S:rm_try:
?S: This is a cleanup variable for try test programs.
?S: Internal Configure use only.
?S:.
?LINT: change p_
?INIT::
 Trailing extension.  Override this in a hint file, if needed.
?INIT:: Extra object files, if any, needed on this platform.
?INIT:archobjs="
: Define several unixisms.
: Hints files or command line option can be used to override them.
: The convoluted testing is in case hints files set either the old
: or the new name.
case "$_exe" in
") case "$exe_ext" in
 ") ;;
 *) _exe="$exe_ext" ;;
 esac
 ;;
esac
case "$_a" in
") case "$lib_ext" in
   ") _a='.a';;
```

```
 *) _a="$lib_ext" ;;
 esac
 ;;
esac
case "$_o" in
") case "$obj_ext" in
 ") _o='.o';;
 *) _o="$obj_ext";;
 esac
 ;;
esac
case "$p_" in
") case "$path_sep" in
 ") p_=':';;
 *) p_="$path_sep";;
 esac
 ;;
esac
exe_ext=$_exe
lib_ext=$_a
obj_ext=$_o
path_sep=$p_

rm_try="$rm -f try try$_exe a.out .out try.[cho] try.$_o core core.try* try.core*"

@if firstmakefile
: Which makefile gets called first.  This is used by make depend.
case "$firstmakefile" in
") firstmakefile='makefile';;
esac

@end
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Unix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_killpg.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: d_killpg.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_killpg: Inlibc
?MAKE: -pick add $@ %<
?S:d_killpg:
?S: This variable conditionally defines the HAS_KILLPG symbol, which
?S: indicates to the C program that the killpg() routine is available
?S: to kill process groups.
?S:.
?C:HAS_KILLPG (KILLPG):
?C: This symbol, if defined, indicates that the killpg routine is available
?C: to kill
 process groups.  If unavailable, you probably should use kill
?C: with a negative process number.
?C:.
?H:#$d_killpg HAS_KILLPG /**/
?H:.
?LINT:set d_killpg
: see if killpg exists
set killpg d_killpg
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_killpg.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getnbyad.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getnbyname: Inlibc
?MAKE: -pick add $@ %<
?S:d_getnbyname:
?S: This variable conditionally defines the HAS_GETNETBYNAME symbol, which
?S: indicates to the C program that the getnetbyname() routine is available
?S: to look up networks by their names.
?S:.
?C:HAS_GETNETBYNAME:
?C: This symbol, if defined, indicates that the getnetbyname() routine is
?C: available to look up networks by their names.
?C:.
?H:#$d_getnbyname HAS_GETNETBYNAME  /**/
```

```
?H:.
?LINT:set d_getnbyname
: see if getnetbyname exists
set getnetbyname d_getnbyname
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_getnbynm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: charorder.U,v 3.0.1.1 1994/10/29 16:07:08 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: charorder.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:07:08  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:33  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:chorder_int chorder_short chorder_long: Myread cat Compile rm
?MAKE: -pick add $@ %<
?S:chorder_short (d_cos d_bos):
?S: Holds the value describing the byte ordering of characters in a short.
?S: On a Big-Endian machine, that
 would be "c0c1".
?S:.
?S:chorder_int (charoder):
?S: Holds the value describing the byte ordering of characters in an int.
?S: For instance, on a Big-Endian machine, this would be: "c0c1c2c3".
?S:.
?S:chorder_long (d_col d_bol):
?S: Holds the value describing the byte ordering of characters in a long.
?S: On a 64 bits Big-Endian machine, that would yield: "c0c1c2c3c4c5c6c7".
?S:.
?C:CHAR_ORDER_SHORT:
?C: Holds the byte ordering of characters in a short. It's a string
?C: value like "c0c1" on a Big-Endian machine.
?C:.
?C:CHAR_ORDER_INT:
```

```
?C: Holds the byte ordering of characters in an int. It's a string
?C: value like "c0c1c2c3" on a Big-Endian machine.
?C:.
?C:CHAR_ORDER_LONG:
?C: Holds the byte ordering of characters in a long. It's a string
?C: value like "c0c1c2c3c4c5c6c7" on a 64 bits Big-Endian machine.
?C:.
?H:#define CHAR_ORDER_SHORT "$chorder_short" /* byte order in a short */
?H:#define CHAR_ORDER_INT "$chorder_int" /* byte order in an int */
?H:#define CHAR_ORDER_LONG "$chorder_long"
 /* byte order in a long */
?H:.
?F:!byteorder
: check for character ordering
echo " "
echo "Checking out byte order..." >&4
$cat >byteorder.c <<'EOCP'
#include <stdio.h>

int main(argc, argv)
 int argc;
 char *argv[]; {
 int i;
 int max;
 union {
  short u_s;
  int u_i;
  long u_l;
  char u_c[sizeof(long)];
 } u;
 switch (argv[1][0]) {
 case 'l':
  u.u_l = 0L;
  /* HMS: ASSERT: sizeof(long) < 10. */
  for(i = 0; i < sizeof(long); ++i) {
   u.u_l *= 0x100L;
   u.u_l += (0xc0 + i);
  }
  max = sizeof(long);
  break;
 case 's':
  u.u_s = 0;
  /* HMS: ASSERT: sizeof(short) < 10. */
  for(i = 0; i < sizeof(short); ++i) {
   u.u_s *= 0x100L;
   u.u_s += (0xc0 + i);
  }
  max = sizeof(short);
```

```
  break;
 case 'i':
  u.u_i = 0;
  /* RAM: ASSERT: sizeof(int) < 10. */
  for(i = 0; i < sizeof(int); ++i) {
   u.u_l *= 0x100L;
   u.u_l += (0xc0 + i);
  }
  max = sizeof(int);
  break;
 default:
  max = 0;
  break;
 }
 for(i = 0; i < max; i++) {
  printf("%x", u.u_c[i] & 0x00FF);
 }
 printf("\n");
 exit(0);
}
EOCP
set
 byteorder
if eval $compile_ok ; then
 : null statement
@if chorder_short
   chorder_short=`./byteorder s`
@end
@if chorder_int
   chorder_int=`./byteorder i`
@end
@if chorder_long
   chorder_long=`./byteorder l`
@end
else
 $cat <<EOM
(I can't seem to get my test program to work.  Guessing 32 bits big-endian.)
EOM
   chorder_short="c0c1"
   chorder_int="c0c1c2c3"
   chorder_long="c0c1c2c3"
fi
@if chorder_short
dflt=$chorder_short
rp='What is the order of characters in a short?'
. ./myread
chorder_short="$ans"
@end
```

```
@if chorder_int
dflt=$chorder_int
rp='What is the order of characters in an int?'
. ./myread
chorder_int="$ans"
@end
@if chorder_long
dflt=$chorder_long
rp='What is the order of characters in a long?'
. ./myread
chorder_long="$ans"
@end
$rm -f byteorder* core
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/charorder.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: lseektype.U,v 3.0.1.1 1994/08/29 16:30:10 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: lseektype.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:30:10  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lseektype lseeksize: Myread Typedef cat Compile rm_try longsize run
?MAKE: -pick add $@ %<
?S:lseektype:
?S: This variable defines lseektype to be something like off_t, long,
?S: or whatever type is used to declare
 lseek offset's type in the
?S: kernel (which also appears to be lseek's return type).
?S:.
?S:lseeksize:
?S: This variable defines lseektype to be something like off_t, long,
?S: or whatever type is used to declare lseek offset's type in the
?S: kernel (which also appears to be lseek's return type).
```

```
?S:.
?C:Off_t (LSEEKTYPE):
?C: This symbol holds the type used to declare offsets in the kernel.
?C: It can be int, long, off_t, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?C:LSEEKSIZE:
?C: This symbol holds the number of bytes used by the Off_t.
?C:.
?C:Off_t_size:
?C: This symbol holds the number of bytes used by the Off_t.
?C:.
?H:#define Off_t $lseektype  /* <offset> type */
?H:#define LSEEKSIZE $lseeksize  /* <offset> size */
?H:#define Off_t_size $lseeksize /* <offset> size */
?H:.
?F:!try
?LINT:set lseektype
: see what type lseek is declared as in the kernel
rp="What is the type used for lseek's offset on this system?"
set off_t lseektype
 long stdio.h sys/types.h
eval $typedef_ask

echo " "
echo "Checking to see how big your file offsets are..." >&4
$cat >try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
int main()
{
   printf("%d\n", (int)sizeof($lseektype));
   return(0);
}
EOCP
set try
if eval $compile_ok; then
 lseeksize=`$run ./try`
 echo "Your file offsets are $lseeksize bytes long."
else
 dflt=$longsize
 echo " "
 echo "(I can't seem to compile the test program.  Guessing...)"
 rp="What is the size of your file offsets (in bytes)?"
 . ./myread
 lseeksize="$ans"
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/lseektype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sitebin.U,v $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sitebin.U,v $
?RCS:
?MAKE:sitebin sitebinexp installsitebin : Getfile Oldconfig \
 Setprefixvar siteprefix
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitebin=''
?S:sitebin:
?S: This variable holds the name of the directory in which the user wants
?S: to put add-on publicly executable files for the package in question.  It
?S: is most often a local directory such as /usr/local/bin. Programs using
?S: this variable must be prepared to deal with ~name substitution.
?S: The standard distribution will put nothing
 in this directory.
?S: After perl has been installed, users may install their own local
?S: executables in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitebinexp=''
?S:sitebinexp:
?S: This is the same as the sitebin variable, but is filename expanded at
?S: configuration time, for use in your makefiles.
?S:.
?D:installsitebin=''
?S:installsitebin:
?S: This variable is usually the same as sitebinexp, unless you are on
?S: a system running AFS, in which case they may differ slightly. You
?S: should always use this variable within your makefiles for portability.
?S:.
?LINT:change prefixvar
?LINT:set installsitebin
```

```
?LINT:set sitebin
?LINT:set sitebinexp
: determine where add-on public executables go
case "$sitebin" in
") dflt=$siteprefix/bin ;;
*) dflt=$sitebin ;;
esac
fn=d~
rp='Pathname where the add-on public executables should be installed?'
. ./getfile
prefixvar=sitebin
. ./setprefixvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/sitebin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2008 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_ctime64 d_localtime64 d_gmtime64 d_mktime64 d_difftime64 d_asctime64: Inlibc
?MAKE: -pick add $@ %<
?S:d_ctime64:
?S: This variable conditionally defines the HAS_CTIME64 symbol, which
?S: indicates to the C program that the ctime64 () routine is available.
?S:.
?S:d_localtime64:
?S: This variable conditionally defines the HAS_LOCALTIME64 symbol, which
?S: indicates to the C program that the localtime64 () routine is available.
?S:.
?S:d_gmtime64:
?S: This variable conditionally defines the HAS_GMTIME64 symbol, which
?S: indicates to the C program that the gmtime64 () routine is available.
?S:.
?S:d_mktime64:
?S: This variable conditionally defines the HAS_MKTIME64 symbol, which
?S: indicates to the
 C program that the mktime64 () routine is available.
?S:.
?S:d_difftime64:
?S: This variable conditionally defines the HAS_DIFFTIME64 symbol, which
?S: indicates to the C program that the difftime64 () routine is available.
?S:.
```

```
?S:d_asctime64:
?S: This variable conditionally defines the HAS_ASCTIME64 symbol, which
?S: indicates to the C program that the asctime64 () routine is available.
?S:.
?C:HAS_CTIME64:
?C: This symbol, if defined, indicates that the ctime64 () routine is
?C: available to do the 64bit variant of ctime ()
?C:.
?C:HAS_LOCALTIME64:
?C: This symbol, if defined, indicates that the localtime64 () routine is
?C: available to do the 64bit variant of localtime ()
?C:.
?C:HAS_GMTIME64:
?C: This symbol, if defined, indicates that the gmtime64 () routine is
?C: available to do the 64bit variant of gmtime ()
?C:.
?C:HAS_MKTIME64:
?C: This symbol, if defined, indicates that the mktime64 () routine is
?C: available to do the 64bit variant of mktime ()
?C:.
?C:HAS_DIFFTIME64:
?C: This
 symbol, if defined, indicates that the difftime64 () routine is
?C: available to do the 64bit variant of difftime ()
?C:.
?C:HAS_ASCTIME64:
?C: This symbol, if defined, indicates that the asctime64 () routine is
?C: available to do the 64bit variant of asctime ()
?C:.
?H:#$d_ctime64 HAS_CTIME64  /**/
?H:#$d_localtime64 HAS_LOCALTIME64  /**/
?H:#$d_gmtime64 HAS_GMTIME64  /**/
?H:#$d_mktime64 HAS_MKTIME64  /**/
?H:#$d_difftime64 HAS_DIFFTIME64  /**/
?H:#$d_asctime64 HAS_ASCTIME64  /**/
?H:.
?LINT:set d_ctime64 d_localtime64 d_gmtime64 d_mktime64 d_difftime64 d_asctime64
: see if 64bit time functions exists

set ctime64 d_ctime64
eval $inlibc

set localtime64 d_localtime64
eval $inlibc

set gmtime64 d_gmtime64
eval $inlibc
```

```
set mktime64 d_mktime64
eval $inlibc

set difftime64 d_difftime64
eval $inlibc

set asctime64 d_asctime64
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_timefuncs64.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_shmget.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_shmget.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:20  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_shmget: Inlibc
?MAKE: -pick add $@ %<
?S:d_shmget:
?S: This variable conditionally defines the HAS_SHMGET symbol, which
?S: indicates to the C program that the shmget() routine is available.
?S:.
?C:HAS_SHMGET:
?C: This symbol, if defined, indicates that the shmget() routine is
?C: available to request a shared memory segment from
 the kernel.
?C:.
?H:#$d_shmget HAS_SHMGET  /**/
?H:.
?LINT:set d_shmget
: see if shmget exists
set shmget d_shmget
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/dist/U/d_shmget.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_shmat.U,v 3.0.1.3 1995/07/25 14:04:23 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_shmat.U,v $
?RCS: Revision 3.0.1.3  1995/07/25  14:04:23  ram
?RCS: patch56: use findhdr to find <sys/shm.h>, to get the right one (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:18:56  ram
?RCS: patch27: added new symbol HAS_SHMAT_PROTOTYPE (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:54:18  ram
?RCS: patch23: new Shmat_t symbol to declare return type of shmat()
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:18  ram
?RCS: Baseline for dist 3.0 netwide
 release.
?RCS:
?MAKE:d_shmat shmattype d_shmatprototype: Inlibc cat +cc +ccflags \
 rm cppstdin cppflags cppminus Findhdr Setvar contains
?MAKE: -pick add $@ %<
?S:d_shmat:
?S: This variable conditionally defines the HAS_SHMAT symbol, which
?S: indicates to the C program that the shmat() routine is available.
?S:.
?S:shmattype:
?S: This symbol contains the type of pointer returned by shmat().
?S: It can be 'void *' or 'char *'.
?S:.
?S:d_shmatprototype:
?S: This variable conditionally defines the HAS_SHMAT_PROTOTYPE
?S: symbol, which indicates that sys/shm.h has a prototype for
?S: shmat.
?S:.
?C:HAS_SHMAT:
?C: This symbol, if defined, indicates that the shmat() routine is
?C: available to attach a shared memory segment to the process space.
?C:.
?C:Shmat_t:
```

```
?C: This symbol holds the return type of the shmat() system call.
?C: Usually set to 'void *' or 'char *'.
?C:.
?C:HAS_SHMAT_PROTOTYPE:
?C: This symbol, if defined, indicates that the sys/shm.h includes
?C: a prototype for shmat().
  Otherwise, it is up to the program to
?C: guess one.  Shmat_t shmat(int, Shmat_t, int) is a good guess,
?C: but not always right so it should be emitted by the program only
?C: when HAS_SHMAT_PROTOTYPE is not defined to avoid conflicting defs.
?C:.
?H:#$d_shmat HAS_SHMAT  /**/
?H:#define Shmat_t $shmattype /**/
?H:#$d_shmatprototype HAS_SHMAT_PROTOTYPE /**/
?H:.
?LINT:set d_shmat d_shmatprototype
?T:xxx
: see if shmat exists
set shmat d_shmat
eval $inlibc
: see what shmat returns
case "$d_shmat" in
"$define")
 $cat >shmat.c <<'END'
#include <sys/shm.h>
void *shmat();
END
 if $cc $ccflags -c shmat.c >/dev/null 2>&1; then
  shmattype='void *'
 else
  shmattype='char *'
 fi
 echo "and it returns ($shmattype)." >&4
 : see if a prototype for shmat is available
 xxx=`./findhdr sys/shm.h`
 $cppstdin $cppflags $cppminus < $xxx > shmat.c 2>/dev/null
 if $contains 'shmat.*(' shmat.c >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 $rm -f shmat.[co]
 ;;
*)
 val="$undef"
 ;;
esac
set
```

```
 d_shmatprototype
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_shmat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_mkstemps: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkstemps:
?S: This variable conditionally defines the HAS_MKSTEMPS symbol, which
?S: indicates to the C program that the mkstemps() routine is available
?S: to exclusively create and open a uniquely named (with a suffix)
?S: temporary file.
?S:.
?C:HAS_MKSTEMPS :
?C: This symbol, if defined, indicates that the mkstemps routine is
?C: available to exclusively create and open a uniquely named
?C: (with a suffix) temporary file.
?C:.
?H:#$d_mkstemps HAS_MKSTEMPS  /**/
?H:.
?LINT:set d_mkstemps
: see if mkstemps exists
set mkstemps d_mkstemps
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_mkstemps.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: alignbytes.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:02:28  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:25:20  ram
?RCS: patch23: avoid ALIGNBYTES, since it conflicts on NetBSD
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:23  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:alignbytes: Assert Myread Trylink cat i_inttypes i_limits i_math
?MAKE: -pick add $@ %<
?S:alignbytes:
?S: This variable holds the number of bytes required
 to align an
?S: arbitrary standard type. Usual values are 2, 4 and 8.
?S:.
?X: This used to be called ALIGNBYTES, but that conflicts with
?X: <machines/param.h> in NetBSD.
?C:MEM_ALIGNBYTES (ALIGNBYTES):
?C: This symbol contains the number of bytes required to align a
?C: double. Usual values are 2, 4 and 8.
?C:.
?H:#define MEM_ALIGNBYTES $alignbytes /**/
?H:.
?T:alignment result
: check for alignment requirements
echo " "
case "$alignbytes" in
")
 echo "Checking alignment constraints..." >&4

 for alignment in 8 4 2 1 16 32 error
 do
  $cat >try.c <<EOCP
#$i_inttypes I_INTTYPES
#ifdef I_INTTYPES
#include <inttypes.h>
#endif
#$i_limits I_LIMITS
#ifdef I_LIMITS
#include <limits.h>
#endif
#$i_math I_MATH
#ifdef I_MATH
#include <math.h>
```

```
#endif

union u {
 void *void_ptr;
 void (*func_ptr)(void);
 char c;
 short s;
 int i;
 long l;
 float f;
 double d;
#ifdef LLONG_MAX
 long long ll;
#else
#warning "LLONG_MAX undefined"
#endif
#if defined(HUGE_VALL)
 long double ld;
#else
#warning
 "HUGE_VALL undefined"
#endif
#ifdef UINT32_MAX
 uint32_t u32;
#else
#warning "UINT32_MAX undefined"
#endif
#ifdef UINT16_MAX
 uint16_t u16;
#else
#warning "UINT32_MAX undefined"
#endif
#ifdef UINT64_MAX
 uint64_t u64;
#else
#warning "UINT64_MAX undefined"
#endif
#ifdef UINTMAX_MAX
 uintmax_t m;
#else
#warning "UINTMAX_MAX undefined"
#endif
#ifdef UINTPTR_MAX
 uintptr_t up;
#else
#warning "UINTPTR_MAX undefined"
#endif
};
```

```
struct s {
 char a;
 union u b;
};

#include "static_assert.h"

int
main(void)
{
 STATIC_ASSERT($alignment == ((sizeof (struct s) - (sizeof (union u)))));
 return 0;
}
EOCP

  result="
  set result
  eval $trylink
  case "$result" in
  "$define") break;;
  esac
 done

 case "$alignment" in
 error) dflt='8'
  echo "(I can't seem to compile the test program...)" >&4
  ;;
 *) dflt=$alignment
  ;;
 esac
;;
*) dflt="$alignbytes"
 ;;
esac
rp="What is the maximum alignment in bytes required for a standard type?"
. ./myread
alignbytes="$ans"
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/alignbytes.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_srand48_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_srand48_r srand48_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_stdlib extern_C
?MAKE: -pick add $@ %<
?S:d_srand48_r:
?S: This variable conditionally defines the HAS_SRAND48_R symbol,
?S: which indicates to the C program that the srand48_r()
?S: routine is available.
?S:.
?S:srand48_r_proto:
?S: This variable encodes the prototype of srand48_r.
?S: It is zero if d_srand48_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_srand48_r
?S: is defined.
?S:.
?C:HAS_SRAND48_R:
?C: This symbol, if defined, indicates that the srand48_r routine
?C: is available to srand48 re-entrantly.
?C:.
?C:SRAND48_R_PROTO:
?C: This
 symbol encodes the prototype of srand48_r.
?C: It is zero if d_srand48_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_srand48_r
?C: is defined.
?C:.
?H:#$d_srand48_r HAS_SRAND48_R /**/
?H:#define SRAND48_R_PROTO $srand48_r_proto /**/
?H:.
?T:try hdrs d_srand48_r_proto
: see if srand48_r exists
set srand48_r d_srand48_r
eval $inlibc
case "$d_srand48_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_stdlib stdlib.h"
 case "$d_srand48_r_proto:$usethreads" in
 ":define") d_srand48_r_proto=define
  set d_srand48_r_proto srand48_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_srand48_r_proto" in
 define)
 case "$srand48_r_proto" in
```

```
"|0) try='int srand48_r(long, struct drand48_data*);'
./protochk "$extern_C $try" $hdrs && srand48_r_proto=I_LS ;;
esac
case "$srand48_r_proto" in
"|0) d_srand48_r=undef
 srand48_r_proto=0
 echo "Disabling srand48_r, cannot determine prototype." >&4 ;;
* ) case
"$srand48_r_proto" in
 REENTRANT_PROTO*) ;;
 *) srand48_r_proto="REENTRANT_PROTO_$srand48_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "srand48_r has no prototype, not using it." >&4 ;;
 esac
 d_srand48_r=undef
 srand48_r_proto=0
 ;;
esac
;;
*) srand48_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_srand48_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setpgrp.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:44:16  ram
?RCS: patch61: obsoleted USE_BSDGRP in favor of USE_BSD_SETPGRP
?RCS: patch61: another unit now also defines a USE_BSD_GETPGRP
?RCS: patch61: fallback for test program failure improved
?RCS:
```

```
?RCS: Revision 3.0.1.2  1995/07/25  13:59:30  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:15:37  ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
 patch36: call ./usg explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setpgrp d_bsdsetpgrp: cat rm +cc +libs +ccflags \
 +ldflags Inlibc Guess Setvar i_unistd
?MAKE: -pick add $@ %<
?S:d_setpgrp:
?S: This variable conditionally defines HAS_SETPGRP if setpgrp() is
?S: available to set the current process group.
?S:.
?S:d_bsdsetpgrp (d_bsdpgrp):
?S: This variable conditionally defines USE_BSD_SETPGRP if
?S: setpgrp needs two arguments whereas USG one needs none.
?S: See also d_setpgid for a POSIX interface.
?S:.
?C:HAS_SETPGRP (SETPGRP):
?C: This symbol, if defined, indicates that the setpgrp routine is
?C: available to set the current process group.
?C:.
?C:USE_BSD_SETPGRP (USE_BSDPGRP BSDPGRP):
?C: This symbol, if defined, indicates that setpgrp needs two
?C: arguments whereas USG one needs none.  See also HAS_SETPGID
?C: for a POSIX interface.
?C:.
?H:#$d_setpgrp HAS_SETPGRP  /**/
?H:#$d_bsdsetpgrp
 USE_BSD_SETPGRP /**/
?H:.
?F:!set.c !set
?T:xxx
?LINT:set d_setpgrp d_bsdsetpgrp
: see if setpgrp exists
set setpgrp d_setpgrp
eval $inlibc

@if USE_BSD_SETPGRP || d_bsdsetpgrp
case "$d_setpgrp" in
"$define")
 echo " "
 echo "Checking to see which flavor of setpgrp is in use..."
```

```
 $cat >set.c <<EOP
#$i_unistd I_UNISTD
#include <sys/types.h>
#ifdef I_UNISTD
#  include <unistd.h>
#endif
int main()
{
 if (getuid() == 0) {
  printf("(I see you are running Configure as super-user...)\n");
  setuid(1);
 }
#ifdef TRY_BSD_PGRP
 if (-1 == setpgrp(1, 1))
  exit(0);
#else
 if (setpgrp() != -1)
  exit(0);
#endif
 exit(1);
}
EOP
 if $cc -DTRY_BSD_PGRP $ccflags $ldflags -o set set.c $libs >/dev/null 2>&1 && ./set; then
  echo 'You have to use setpgrp(pid,pgrp) instead of setpgrp().' >&4
  val="$define"
 elif $cc $ccflags $ldflags -o set set.c $libs >/dev/null 2>&1 && ./set; then
  echo 'You have to use setpgrp() instead of setpgrp(pid,pgrp).' >&4
  val="$undef"
 else
  echo "(I can't
 seem to compile and run the test program.)"
  if ./usg; then
   xxx="a USG one, i.e. you use setpgrp()."
  else
   # SVR4 systems can appear rather BSD-ish.
   case "$i_unistd" in
   $undef)
    xxx="a BSD one, i.e. you use setpgrp(pid,pgrp)."
    val="$define"
    ;;
   $define)
    xxx="probably a USG one, i.e. you use setpgrp()."
    val="$undef"
    ;;
   esac
  fi
  echo "Assuming your setpgrp is $xxx" >&4
 fi
```

```
 ;;
*) val="$undef";;
esac
set d_bsdsetpgrp
eval $setvar
$rm -f set set.c
@end
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setpgrp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ctime_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_ctime_r ctime_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_time i_systime extern_C
?MAKE: -pick add $@ %<
?S:d_ctime_r:
?S: This variable conditionally defines the HAS_CTIME_R symbol,
?S: which indicates to the C program that the ctime_r()
?S: routine is available.
?S:.
?S:ctime_r_proto:
?S: This variable encodes the prototype of ctime_r.
?S: It is zero if d_ctime_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_ctime_r
?S: is defined.
?S:.
?C:HAS_CTIME_R:
?C: This symbol, if defined, indicates that the ctime_r routine
?C: is available to ctime re-entrantly.
?C:.
?C:CTIME_R_PROTO:
?C: This
 symbol encodes the prototype of ctime_r.
?C: It is zero if d_ctime_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_ctime_r
?C: is defined.
?C:.
?H:#$d_ctime_r HAS_CTIME_R /**/
?H:#define CTIME_R_PROTO $ctime_r_proto /**/
```

```
?H:.
?T:try hdrs d_ctime_r_proto
: see if ctime_r exists
set ctime_r d_ctime_r
eval $inlibc
case "$d_ctime_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_time time.h $i_systime sys/time.h"
 case "$d_ctime_r_proto:$usethreads" in
 ":define") d_ctime_r_proto=define
  set d_ctime_r_proto ctime_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_ctime_r_proto" in
 define)
 case "$ctime_r_proto" in
 "|0) try='char* ctime_r(const time_t*, char*);'
 ./protochk "$extern_C $try" $hdrs && ctime_r_proto=B_SB ;;
 esac
 case "$ctime_r_proto" in
 "|0) try='char* ctime_r(const time_t*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && ctime_r_proto=B_SBI ;;
 esac
 case "$ctime_r_proto" in
 "|0) try='int ctime_r(const
 time_t*, char*);'
 ./protochk "$extern_C $try" $hdrs && ctime_r_proto=I_SB ;;
 esac
 case "$ctime_r_proto" in
 "|0) try='int ctime_r(const time_t*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && ctime_r_proto=I_SBI ;;
 esac
 case "$ctime_r_proto" in
 "|0) d_ctime_r=undef
  ctime_r_proto=0
  echo "Disabling ctime_r, cannot determine prototype." >&4 ;;
 * ) case "$ctime_r_proto" in
  REENTRANT_PROTO*) ;;
  *) ctime_r_proto="REENTRANT_PROTO_$ctime_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "ctime_r has no prototype, not using it." >&4 ;;
  esac
  d_ctime_r=undef
```

```
  ctime_r_proto=0
  ;;
 esac
 ;;
*) ctime_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_ctime_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pthread_y.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_pthread_yield sched_yield d_sched_yield: \
 Compile Setvar cat rm_try usethreads
?MAKE: -pick add $@ %<
?S:d_pthread_yield:
?S: This variable conditionally defines the HAS_PTHREAD_YIELD
?S: symbol if the pthread_yield routine is available to yield
?S: the execution of the current thread.
?S:.
?S:sched_yield:
?S: This variable defines the way to yield the execution
?S: of the current thread.
?S:.
?S:d_sched_yield:
?S: This variable conditionally defines the HAS_SCHED_YIELD
?S: symbol if the sched_yield routine is available to yield
?S: the execution of the current thread.
?S:.
?C:HAS_PTHREAD_YIELD:
?C: This symbol, if defined, indicates that the pthread_yield
?C: routine is available
 to yield the execution of the current
?C: thread.  sched_yield is preferable to pthread_yield.
?C:.
?C:SCHED_YIELD:
?C: This symbol defines the way to yield the execution of
?C: the current thread.  Known ways are sched_yield,
?C: pthread_yield, and pthread_yield with NULL.
?C:.
```

```
?C:HAS_SCHED_YIELD:
?C: This symbol, if defined, indicates that the sched_yield
?C: routine is available to yield the execution of the current
?C: thread.  sched_yield is preferable to pthread_yield.
?C:.
?H:#$d_pthread_yield HAS_PTHREAD_YIELD /**/
?H:#define SCHED_YIELD $sched_yield /**/
?H:#$d_sched_yield HAS_SCHED_YIELD /**/
?H:.
?LINT: set d_pthread_yield d_sched_yield
: see whether the various POSIXish _yields exist
$cat >try.c <<EOP
#include <pthread.h>
#include <stdio.h>
int main() {
#ifdef SCHED_YIELD
 sched_yield();
#else
#ifdef PTHREAD_YIELD
 pthread_yield();
#else
#ifdef PTHREAD_YIELD_NULL
 pthread_yield(NULL);
#endif
#endif
#endif
}
EOP
: see if sched_yield exists
set try -DSCHED_YIELD
if eval $compile;
 then
   val="$define"
   sched_yield='sched_yield()'
else
   val="$undef"
fi
case "$usethreads" in
$define)
 case "$val" in
 $define) echo 'sched_yield() found.' >&4 ;;
 *)  echo 'sched_yield() NOT found.' >&4 ;;
 esac
esac
set d_sched_yield
eval $setvar

: see if pthread_yield exists
```

```
set try -DPTHREAD_YIELD
if eval $compile; then
   val="$define"
   case "$sched_yield" in
   ") sched_yield='pthread_yield()' ;;
   esac
else
   set try -DPTHREAD_YIELD_NULL
   if eval $compile; then
 val="$define"
 case "$sched_yield" in
 ") sched_yield='pthread_yield(NULL)' ;;
 esac
   else
 val="$undef"
   fi
fi
case "$usethreads" in
$define)
 case "$val" in
 $define) echo 'pthread_yield() found.' >&4 ;;
 *)  echo 'pthread_yield() NOT found.' >&4 ;;
 esac
 ;;
esac
set d_pthread_yield
eval $setvar
case "$sched_yield" in
") sched_yield=undef ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_pthread_y.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Head.U 6 2006-08-25 22:21:46Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Head.U,v $

```
?RCS: Revision 3.0.1.9  1997/02/28  15:02:09  ram
?RCS: patch61: make sure we unset CDPATH for shells that support this
?RCS: patch61: improved Korn shell detection and handling
?RCS:
?RCS: Revision 3.0.1.8  1995/07/25  13:40:02  ram
?RCS: patch56: added SVR4-ish /opt directories to path list (ADO)
?RCS: patch56: OS/2 platforms are using another path separator
?RCS:
?RCS: Revision 3.0.1.7  1995/03/21  08:46:15  ram
?RCS: patch52: definition of
 paths wrongly added spurious ':' chars
?RCS:
?RCS: Revision 3.0.1.6  1994/10/29  15:54:19  ram
?RCS: patch36: make sure ENV is unset before calling /bin/ksh
?RCS:
?RCS: Revision 3.0.1.5  1994/08/29  16:03:44  ram
?RCS: patch32: now sets PATH only using existing directories
?RCS:
?RCS: Revision 3.0.1.4  1994/06/20  06:54:28  ram
?RCS: patch30: now computes its invocation name into 'me'
?RCS: patch30: symbol me is made visible to all units read-only
?RCS:
?RCS: Revision 3.0.1.3  1993/12/15  08:15:07  ram
?RCS: patch15: added /sbin:/usr/sbin:/usr/libexec in PATH for BSD/386
?RCS:
?RCS: Revision 3.0.1.2  1993/11/10  17:32:35  ram
?RCS: patch14: ensure PATH is reset to '.' before testing for alias
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:38:07  ram
?RCS: patch7: not all 'test' programs support the -x option
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This is the very first unit in the Configure script.  It is mostly just
?X:
 things to keep people from getting into a tizzy right off the bat.
?X:
?MAKE:Head:
?MAKE: -pick wipe $@ %<
?V:PATH p_ _exe me newsh
?T:argv p paths OS2_SHELL DJGPP
?T:inksh needksh avoidksh newsh changesh reason
?F:!*
?LINT:extern ENV CDPATH SHELL MACHTYPE _exe is_os2
?LINT:change ENV CDPATH is_os2
?LINT:nocomment
```

```
#! /bin/sh
#
# If these # comments don't work, trim them. Don't worry about any other
# shell scripts, Configure will trim # comments from them for you.
#
# (If you are trying to port this package to a machine without sh,
# I would suggest you have a look at the prototypical config_h.SH file
# and edit it to reflect your system. Some packages may include samples
# of config.h for certain machines, so you might look for one of those.)
#
?X:
?X: NOTE THAT A CONFIGURE SCRIPT IS IN THE PUBLIC DOMAIN (whether or not
?X: the software which uses it is in the public domain).
?X:
# Yes, you may rip this off to use in other distribution packages. This
# script belongs to the public
 domain and cannot be copyrighted.
#
?X:
?X: WE ASK YOU NOT TO REMOVE OR ALTER THE FOLLOWING PARAGRAPH, PLEASE:
?X:
# Note: this Configure script was generated automatically by the tool
# called "metaconfig". Rather than working with this copy of Configure,
# you should use metaconfig. Perl uses a modified version of this
# tool, and this, together with the metaconfig units, are available
# in the git repository:
#    $ git clone https://github.com/Perl/metaconfig metaconfig
# The original dist package (including metaconfig) is available on github:
#    $ git clone https://github.com/rmanfredi/dist.git dist-git
#
?X: OK, I'll not alter, but I'll add to it then ...
# Though this script was generated by metaconfig from metaunits, it is
# OK to send patches against Configure itself (but not to commit them
# to blead). It's up to
# the Configure maintainers to backport the patch to the metaunits if it
# is accepted. Exceptions to this rule, and more information, is in
# Porting/pumpkin.pod.
?X:
?X:
 NOTA BENE:
?X: If you develop you own version of metaconfig based on this work,
?X: you have to add some comments telling that the script was generated
?X: by your version, not mine: It credits your work.
?X:

# Generated using [metaconfig <VERSION> PL<PATCHLEVEL>]
# with additional metaconfig patches from https://github.com/Perl/metaconfig
```

```
cat >c1$$ <<EOF
ARGGGHHHH!!!!!

SCO csh still thinks true is false.  Write to SCO today and tell them that next
year Configure ought to "rm /bin/csh" unless they fix their blasted shell. :-)

(Actually, Configure ought to just patch csh in place.  Hmm.  Hmmmmm.  All
we'd have to do is go in and swap the && and || tokens, wherever they are.)

[End of diatribe. We now return you to your regularly scheduled programming...]
EOF
cat >c2$$ <<EOF

OOPS!  You naughty creature!  You didn't run Configure with sh!
I will attempt to remedy the situation by running sh for you...
EOF

true || cat c1$$ c2$$
true || exec sh $0 $argv:q

(exit $?0) || cat
 c2$$
(exit $?0) || exec sh $0 $argv:q
rm -f c1$$ c2$$

if test -f /dev/cputype -a -f /dev/drivers -a -f /dev/osversion; then
 cat <<EOF
***
*** I'm sorry but this system looks like Plan 9 and Plan 9 doesn't do
*** Configure that well.  (Plan 9 is close to UNIX but not close enough.)
*** Please read the README.plan9 for further instructions.
*** Cannot continue, aborting.
***
EOF
 exit 1
fi

if test -f /sys/utilities/MultiView ; then
 # AmigaOS, test -c for /dev/null is not useful
 :
elif test ! -c /dev/null ; then
 cat <<EOF
***
*** I'm sorry, but /dev/null appears to be a file rather than a device.
*** Please consult your operating sytem's notes for making a device
*** in /dev.
*** Cannot continue, aborting.
***
```

```
EOF
 exit 1
fi

: compute my invocation name
me=$0
case "$0" in
*/*)
 me=`echo $0 | sed -e 's!.*/\(.*\)!\1!' 2>/dev/null`
 test "$me" || me=$0
 ;;
esac

?X:
?X: To be able to run under OS/2, we must detect that early enough to use
?X: the proper path separator, stored in $p_.
 It is : on UNIX and ; on
?X: DOS-ish systems such as OS/2.
?X:
: Proper separator for the PATH environment variable
p_=:
: On OS/2 this directory should exist if this is not floppy only system ":-]"
if test -d c:/. || ( uname -a | grep -i 'os\(/\|\)2' 2>&1 ) 2>&1 >/dev/null ; then
 if test -n "$OS2_SHELL"; then
  p_=\;
  PATH=`cmd /c "echo %PATH%" | tr '\\\\' / `
?X: That's a bug in ksh5.22
  OS2_SHELL=`cmd /c "echo %OS2_SHELL%" | tr '\\\\' / | tr '[A-Z]' '[a-z]'`
  is_os2=yes
 elif test -n "$DJGPP"; then
  case "X${MACHTYPE:-nonesuchmach}" in
  *cygwin|*msys) ;;
  *) p_=\; ;;
  esac
 fi
fi

?X:
?X: There are two schools of thoughts here. Some people correctly argue that
?X: the user has a better chance than we do of setting a reasonable PATH and
?X: others argue that Configure is the best place there is to set up a suitable
?X: PATH. Well, here we try to compromise by keeping the user's PATH and
?X: appending some directories which are known to work on some machine or the
?X: other.
 The rationale behind this being that a novice user might not have a
?X: proper environment variable set, and some directories like /etc (where
?X: chown is located on some BSD systems) may be missing--RAM.
?X:
```

```
?X: SVR4 adds an /opt directory for optional packages.  Some sites use
?X: various permutations on /opt as opposed to /usr or /usr/local.-- ADO
?X:
?X: We only add directories that are not already in the PATH of the
?X: user and the directories must exist also.
?X:
?X: 20040627, Merijn, HP-UX's ANSI compiler is in /opt/ansic/bin if present
?X:  and should be before /usr/ccs/bin, where the braindead bundled compiler
?X:  can be found. The /usr/ccs/bin compiler cannot be used to build perl.
?X:
: Proper PATH setting
paths='/bin /usr/bin /usr/local/bin /usr/ucb /usr/local /usr/lbin'
paths="$paths /opt/bin /opt/local/bin /opt/local /opt/lbin"
paths="$paths /usr/5bin /etc /usr/gnu/bin /usr/new /usr/new/bin /usr/nbin"
paths="$paths /opt/gnu/bin /opt/new /opt/new/bin /opt/nbin"
paths="$paths
 /sys5.3/bin /sys5.3/usr/bin /bsd4.3/bin /bsd4.3/usr/ucb"
paths="$paths /bsd4.3/usr/bin /usr/bsd /bsd43/bin /opt/ansic/bin /usr/ccs/bin"
paths="$paths /etc /usr/lib /usr/ucblib /lib /usr/ccs/lib"
paths="$paths /sbin /usr/sbin /usr/libexec"
paths="$paths /system/gnu_library/bin"

for p in $paths
do
 case "$p_$PATH$p_" in
 *$p_$p$p_*) ;;
 *) test -d $p && PATH=$PATH$p_$p ;;
 esac
done

PATH=.$p_$PATH
export PATH

: shall we be using ksh?
inksh=''
needksh=''
avoidksh=''
newsh=/bin/ksh
changesh=''
?X: Use (alias -x) and not (alias) since zsh and bash recognize the alias
?X: builtin but not the -x option which is typically ksh...
?X: We need to set up PATH before calling the "alias" built-in since some
?X: systems like HP-UX have a binary called /bin/alias.
if (PATH=.; alias -x) >/dev/null 2>&1; then
  inksh=true
fi
?X: On HP-UX, large Configure scripts may exercise a bug in /bin/sh, use ksh
if test -f /hp-ux -a -f /bin/ksh; then
```

```
 needksh='to avoid sh bug in "here document" expansion'
fi
?X:
 On AIX4, /bin/sh is really ksh and it causes problems, use sh
if test -d /usr/lpp -a -f /usr/bin/bsh -a -f /usr/bin/uname; then
 if test X`/usr/bin/uname -v` = X4; then
  avoidksh="to avoid AIX 4's /bin/sh"
  newsh=/usr/bin/bsh
 fi
fi
?X: On Digital UNIX, /bin/sh may start up buggy /bin/ksh, use sh
if test -f /osf_boot -a -f /usr/sbin/setld; then
 if test X`/usr/bin/uname -s` = XOSF1; then
  avoidksh="to avoid Digital UNIX' ksh"
  newsh=/bin/sh
?X: if BIN_SH is set to 'xpg4', sh will start up ksh
  unset BIN_SH
 fi
fi
?X: If we are not in ksh and need it, then feed us back to it
case "$inksh/$needksh" in
/[a-z]*)
?X: Clear ENV to avoid any ~/.kshrc that could alias cd or whatever...
?X: Don't use "unset ENV", that is not portable enough
  ENV=''
  changesh=true
  reason="$needksh"
 ;;
esac
?X: If we are in ksh and must avoid it, then feed us back to a new shell
case "$inksh/$avoidksh" in
true/[a-z]*)
 changesh=true
 reason="$avoidksh"
 ;;
esac
?X: Warn them if they use ksh on
 other systems, which are those where
?X: we don't need ksh nor want to avoid it explicitly, yet are using it.
case "$inksh/$needksh-$avoidksh-" in
true/--)
  cat <<EOM
(I see you are using the Korn shell.  Some ksh's blow up on $me,
mainly on older exotic systems.  If yours does, try the Bourne shell instead.)
EOM
 ;;
esac
case "$changesh" in
```

```
true)
 export newsh
 echo "(Feeding myself to $newsh $reason.)"
?X: Make sure they didn't say sh <Configure by checking whether $0 ends
?X: with Configure or not. If they did say sh <../../Configure, then too
?X: bad for them anyway, since we lost that path indication...
?X: Otherwise, execing $0 ensures we keep the full remote source dir
?X: indication for src.U.
 case "$0" in
 Configure|*/Configure) exec $newsh $0 "$@";;
 *) exec $newsh Configure "$@";;
 esac
 ;;
esac
?X: 2004.06.09 rac
?X: having $newsh persist as ksh here is bad news if ksh doesn't really
?X: exist. this causes us to toss away a perfectly good working test in
?X: bash in favor
 of more exotic external options. see bug 42665.
test -x "${newsh}" || unset newsh

?X: Unset CDPATH to avoid surprises when using cd under some shells
?X: Can't unset it because that's not portable to very old shells.
?X: Can't set it to '' because then bash 2.02 won't do "cd UU"  --AD  6/98.
?X: Don't want to set it to '.' because then ksh prints out the
?X: name of the directory every time you cd to it. --AD 6/98
?X: In order to inflict the least harm, change it only if it's set.
: if needed, set CDPATH to a harmless value that is not chatty
: avoid bash 2.02 problems with empty CDPATH.
case "$CDPATH" in
'') ;;
*) case "$SHELL" in
 *bash*) CDPATH='.' ;;
 *) CDPATH='' ;;
 esac
 ;;
esac

: Configure runs within the UU subdirectory
test -d UU || mkdir UU
?X: Use ./* to avoid any confirmation prompts from enhanced shells -- WED
cd UU && rm -f ./*
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Head.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strtoul.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:46:43  ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_strtoul: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtoul:
?S: This variable conditionally defines the HAS_STRTOUL symbol, which
?S: indicates to the C program that the strtoul() routine is available
?S: to provide conversion of strings to unsigned long.
?S:.
?C:HAS_STRTOUL (STRTOUL):
?C: This symbol, if defined, indicates that the strtoul routine is
?C: available
 to provide conversion of strings to unsigned long.
?C:.
?H:#$d_strtoul HAS_STRTOUL /**/
?H:.
?LINT:set d_strtoul
: see if strtoul exists
set strtoul d_strtoul
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strtoul.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getprior.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getprior.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:16  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getprior: Inlibc
?MAKE: -pick add $@ %<
?S:d_getprior:
?S: This variable conditionally defines HAS_GETPRIORITY if getpriority()
?S: is available to get a process's priority.
?S:.
?C:HAS_GETPRIORITY (GETPRIORITY):
?C: This symbol, if defined, indicates that the getpriority routine is
?C: available to get a process's priority.
?C:.
?H:#$d_getprior
 HAS_GETPRIORITY  /**/
?H:.
: see if getpriority exists
?LINT:set d_getprior
set getpriority d_getprior
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getprior.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_unistd.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_unistd.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_unistd: Inhdr
?MAKE: -pick add $@ %<
?S:i_unistd:
?S: This variable conditionally defines the I_UNISTD symbol, and indicates
?S: whether a C program should include <unistd.h>.
```

```
?S:.
?C:I_UNISTD:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <unistd.h>.
?C:.
?H:#$i_unistd I_UNISTD  /**/
?H:.
?LINT:set
 i_unistd
: see if this is a unistd.h system
set unistd.h i_unistd
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_unistd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2019 Karl Williamson
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_towupper: Inlibc
?MAKE: -pick add $@ %<
?S:d_towupper:
?S: This variable conditionally defines the HAS_TOWUPPER symbol, which
?S: indicates to the C program that the towupper() routine is available.
?S:.
?C:HAS_TOWUPPER:
?C: This symbol, if defined, indicates that the towupper () routine is
?C: available to do case conversion.
?C:.
?H:#$d_towupper HAS_TOWUPPER  /**/
?H:.
?LINT:set d_towupper
: see if towupper exists
set towupper d_towupper
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_towupper.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Rcs.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Rcs.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This is a unit that helps people who write SH scripts and keep them under
?X: RCS, but don't think to protect the $Log and other $Id keywords from
?X: variable substitution (or people like me who do not like to).
?X:
?MAKE:Author Date Header Id Locker Log RCSfile Revision Source State: Oldconfig
?MAKE: -pick weed $@ %<
?LINT:describe Author
 Date Header Id Locker Log RCSfile Revision Source State
: preserve RCS keywords in files with variable substitution, grrr
?Author:Author='$Author'
?Date:Date='$Date'
?Header:Header='$Header'
?Id:Id='$Id'
?$Locker'
?Log:Log='$Log'
?RCSfile:RCSfile='$RCSfile'
?Revision:Revision='$Revision'
?Source:Source='$Source'
?State:State='$State'
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Rcs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: d_getpagsz.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:13:10  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getpagsz pagesize: Oldconfig Myread Inlibc cat contains +cc +ccflags \
 libs rm Findhdr
?MAKE: -pick add $@ %<
?S:d_getpagsz:
?S: This variable conditionally defines HAS_GETPAGESIZE if getpagesize()
?S: is available to get the system page size.
?S:.
?S:pagesize (pagsize):
?S: This
 variable holds the size in bytes of a system page.
?S:.
?C:HAS_GETPAGESIZE (GETPAGESIZE):
?C: This symbol, if defined, indicates that the getpagesize system call
?C: is available to get system page size, which is the granularity of
?C: many memory management calls.
?C:.
?X: Don't name it PAGESIZE, this is sometimes used by <sys/param.h>
?C:PAGESIZE_VALUE (PAGSIZE):
?C: This symbol holds the size in bytes of a system page (obtained via
?C: the getpagesize() system call at configuration time or asked to the
?C: user if the system call is not available).
?C:.
?H:#$d_getpagsz HAS_GETPAGESIZE  /**/
?H:#define PAGESIZE_VALUE $pagesize /* System page size, in bytes */
?H:.
?F:!page
?T:guess
?LINT:set d_getpagsz
: see if getpagesize exists
set getpagesize d_getpagsz
eval $inlibc

@if pagesize || PAGESIZE_VALUE
: determine the system page size
echo " "
guess=' (OK to guess)'
case "$pagesize" in
")
 $cat >page.c <<EOP
extern int getpagesize();
```

```
int main()
{
 printf("%d\n", getpagesize());
}
EOP
 echo
 "Computing the granularity of memory management calls..." >&4
 dflt='4096'
 case "$d_getpagsz" in
 "$define")
  if $cc $ccflags -o page page.c $libs >/dev/null 2>&1; then
   dflt=`./page`
   guess=''
  else
   echo "(I can't seem to compile the test program--guessing)"
  fi
  ;;
 *)
  if $cc $ccflags -o page page.c $libs -lPW >/dev/null 2>&1; then
   dflt=`./page`
   guess=''
   echo "(For your eyes only: I used the getpagesize() from -lPW.)"
  else
   if $contains PAGESIZE `./findhdr sys/param.h` >/dev/null 2>&1; then
    $cat >page.c <<EOP
#include <sys/param.h>
int main()
{
 printf("%d\n", PAGESIZE);
}
EOP
    if $cc $ccflags -o page page.c $libs >/dev/null 2>&1; then
     dflt=`./page`
     guess=''
     echo "(Using value of PAGESIZE found in <sys/param.h>.)"
    fi
   fi
  fi
  ;;
 esac
 ;;
*) dflt="$pagesize"; guess="";;
esac
rp="What is the system page size, in bytes$guess?"
. ./myread
pagesize=$ans
$rm -f page.c page
```

@end

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getpagsz.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_random_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_random_r random_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_stdlib extern_C
?MAKE: -pick add $@ %<
?S:d_random_r:
?S: This variable conditionally defines the HAS_RANDOM_R symbol,
?S: which indicates to the C program that the random_r()
?S: routine is available.
?S:.
?S:random_r_proto:
?S: This variable encodes the prototype of random_r.
?S: It is zero if d_random_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_random_r
?S: is defined.
?S:.
?C:HAS_RANDOM_R:
?C: This symbol, if defined, indicates that the random_r routine
?C: is available to random re-entrantly.
?C:.
?C:RANDOM_R_PROTO:
?C: This
 symbol encodes the prototype of random_r.
?C: It is zero if d_random_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_random_r
?C: is defined.
?C:.
?H:#$d_random_r HAS_RANDOM_R /**/
?H:#define RANDOM_R_PROTO $random_r_proto /**/
?H:.
?T:try hdrs d_random_r_proto
: see if random_r exists
set random_r d_random_r
eval $inlibc
case "$d_random_r" in
```

```
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_stdlib stdlib.h"
 case "$d_random_r_proto:$usethreads" in
 ":define") d_random_r_proto=define
  set d_random_r_proto random_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_random_r_proto" in
 define)
 case "$random_r_proto" in
 "|0) try='int random_r(int*, struct random_data*);'
 ./protochk "$extern_C $try" $hdrs && random_r_proto=I_iS ;;
 esac
 case "$random_r_proto" in
 "|0) try='int random_r(long*, struct random_data*);'
 ./protochk "$extern_C $try" $hdrs && random_r_proto=I_lS ;;
 esac
 case "$random_r_proto" in
 "|0)
 try='int random_r(struct random_data*, int32_t*);'
 ./protochk "$extern_C $try" $hdrs && random_r_proto=I_St ;;
 esac
 case "$random_r_proto" in
 "|0) d_random_r=undef
  random_r_proto=0
  echo "Disabling random_r, cannot determine prototype." >&4 ;;
 * ) case "$random_r_proto" in
  REENTRANT_PROTO*) ;;
  *) random_r_proto="REENTRANT_PROTO_$random_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "random_r has no prototype, not using it." >&4 ;;
  esac
  d_random_r=undef
  random_r_proto=0
  ;;
 esac
 ;;
*) random_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/threads/d_random_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:gidsize: Myread Typedef gidtype Compile run i_stdlib
?MAKE: -pick add $@ %<
?S:gidsize:
?S: This variable contains the size of a gidtype in bytes.
?S:.
?C:Gid_t_size:
?C: This symbol holds the size of a Gid_t in bytes.
?C:.
?H:#define Gid_t_size $gidsize  /* GID size */
?H:.
?T:yyy zzz
?F:!try
: Check the size of GID
echo " "
case "$gidtype" in
*_t) zzz="$gidtype" ;;
*)   zzz="gid"  ;;
esac
echo "Checking the size of $zzz..." >&4
cat > try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include
 <stdlib.h>
#endif
int main() {
   printf("%d\n", (int)sizeof($gidtype));
   exit(0);
}
EOCP
set try
if eval $compile_ok; then
 yyy=`$run ./try`
 case "$yyy" in
```

```
 ") gidsize=4
  echo "(I can't execute the test program--guessing $gidsize.)" >&4
  ;;
 *) gidsize=$yyy
  echo "Your $zzz is $gidsize bytes long."
  ;;
 esac
else
 gidsize=4
 echo "(I can't compile the test program--guessing $gidsize.)" >&4
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/gidsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fs_data_s: Hasstruct i_sysparam i_sysmount i_systypes Setvar
?MAKE: -pick add $@ %<
?S:d_fs_data_s:
?S: This variable conditionally defines the HAS_STRUCT_FS_DATA symbol,
?S: which indicates that the struct fs_data is supported.
?S:.
?C:HAS_STRUCT_FS_DATA:
?C: This symbol, if defined, indicates that the struct fs_data
?C: to do statfs() is supported.
?C:.
?H:#$d_fs_data_s HAS_STRUCT_FS_DATA /**/
?H:.
?LINT:set d_fs_data_s
: Check for fs_data_s
echo " "
echo "Checking to see if your system supports struct fs_data..." >&4
set d_fs_data_s fs_data $i_systypes sys/types.h $i_sysparam sys/param.h $i_sysmount sys/mount.h
eval $hasstruct
case "$d_fs_data_s" in
"$define")      echo "Yes, it does."   ;;
*)
            echo "No, it doesn't." ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fs_data_s.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sitearch.U,v 3.1 1999/07/08 18:32:29 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sitearch.U,v $
?RCS: Revision 3.1  1999/07/08 18:32:29  doughera
?RCS: Updated for perl5.005_5x
?RCS:
?RCS: Revision 3.0.1.1  1997/02/28  16:21:30  ram
?RCS: patch61: created
?RCS:
?MAKE:sitearch sitearchexp installsitearch d_sitearch: cat sed Getfile \
 Oldconfig Setprefixvar Prefixit test archname sitelib
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitearch=''
?S:sitearch:
?S: This variable contains the eventual
 value of the SITEARCH symbol,
?S: which is the name of the private library for this package.  It may
?S: have a ~ on the front. It is up to the makefile to eventually create
?S: this directory while performing installation (with ~ substitution).
?S: The standard distribution will put nothing in this directory.
?S: After perl has been installed, users may install their own local
?S: architecture-dependent modules in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitearchexp=''
?S:sitearchexp:
?S: This variable is the ~name expanded version of sitearch, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installsitearch=''
?S:installsitearch:
?S: This variable is really the same as sitearchexp but may differ on
```

```
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?D:d_sitearch="
?S:d_sitearch:
?S: This variable conditionally defines SITEARCH to hold the
 pathname
?S: of architecture-dependent library files for $package.  If
?S: $sitearch is the same as $archlib, then this is set to undef.
?S:.
?C:SITEARCH:
?C: This symbol contains the name of the private library for this package.
?C: The library is private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.  The program
?C: should be prepared to do ~ expansion.
?C: The standard distribution will put nothing in this directory.
?C: After perl has been installed, users may install their own local
?C: architecture-dependent modules in this directory with
?C:  MakeMaker Makefile.PL
?C: or equivalent.  See INSTALL for details.
?C:.
?C:SITEARCH_EXP:
?C: This symbol contains the ~name expanded version of SITEARCH, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#$d_sitearch SITEARCH "$sitearch"  /**/
?H:#$d_sitearch SITEARCH_EXP "$sitearchexp"  /**/
?H:.
?LINT:change prefixvar
?LINT:set installsitearch
?LINT:set
 sitearch
?LINT:set sitearchexp
: determine where site specific architecture-dependent libraries go.
: sitelib  default is /usr/local/lib/perl5/site_perl/$version
: sitearch default is /usr/local/lib/perl5/site_perl/$version/$archname
: sitelib may have an optional trailing /share.
case "$sitearch" in
") dflt=`echo $sitelib | $sed 's,/share$,,'`
 dflt="$dflt/$archname"
 ;;
*) dflt="$sitearch"
 ;;
esac
set sitearch sitearch none
eval $prefixit
$cat <<EOM
```

```
The installation process will also create a directory for
architecture-dependent site-specific extensions and modules.

EOM
fn=d~+
rp='Pathname for the site-specific architecture-dependent library files?'
. ./getfile
prefixvar=sitearch
. ./setprefixvar
if $test X"$sitearch" = X"$sitelib"; then
 d_sitearch="$undef"
else
 d_sitearch="$define"
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/sitearch.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_nexttoward: Inlibc
?MAKE: -pick add $@ %<
?S:d_nexttoward:
?S: This variable conditionally defines HAS_NEXTTOWARD if nexttoward()
?S: is available to return the next machine representable long double from
?S: x in direction y.
?S:.
?C:HAS_NEXTTOWARD:
?C: This symbol, if defined, indicates that the nexttoward routine is
?C: available to return the next machine representable long double from
?C: x in direction y.
?C:.
?H:#$d_nexttoward HAS_NEXTTOWARD  /**/
?H:.
?LINT:set d_nexttoward
: see if nexttoward exists
set nexttoward d_nexttoward
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_nexttoward.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pause.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_pause.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:09:54  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_pause: Inlibc
?MAKE: -pick add $@ %<
?S:d_pause:
?S: This variable conditionally defines the HAS_PAUSE symbol, which
?S: indicates to the C program that the pause() routine is available
?S: to suspend a process until a signal is received.
?S:.
?C:HAS_PAUSE :
?C: This symbol,
 if defined, indicates that the pause routine is
?C: available to suspend a process until a signal is received.
?C:.
?H:#$d_pause HAS_PAUSE  /**/
?H:.
?LINT:set d_pause
: see if pause exists
set pause d_pause
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_pause.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_dlsymun.U,v $
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_dlsymun.U,v $
?RCS:
```

```
?RCS:
?MAKE:d_dlsymun: cat cc ccflags ldflags ld rm Setvar dlsrc i_dlfcn i_stdlib \
 cccdlflags ccdlflags lddlflags libs dlext _o run to
?MAKE: -pick add $@ %<
?X: This is specific to perl5.
?S:d_dlsymun:
?S: This variable conditionally defines DLSYM_NEEDS_UNDERSCORE, which
?S: indicates that we need to prepend an underscore to the symbol
?S: name before calling dlsym().
?S:.
?C:DLSYM_NEEDS_UNDERSCORE:
?C: This symbol, if defined, indicates that we need to prepend an
?C: underscore to the symbol name before calling dlsym().  This only
?C: makes sense if you *have* dlsym, which we will presume is the
?C: case if you're using dl_dlopen.xs.
?C:.
?H:#$d_dlsymun DLSYM_NEEDS_UNDERSCORE /**/
?H:.
?LINT:set
 d_dlsymun
?T: xxx
?F:!fred
: Check if dlsym need a leading underscore
echo " "
val="$undef"

case "$dlsrc" in
dl_dlopen.xs)
 echo "Checking whether your dlsym() needs a leading underscore ..." >&4
 $cat >dyna.c <<'EOM'
fred () { }
EOM

$cat >fred.c<<EOM

#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_dlfcn I_DLFCN
#ifdef I_DLFCN
#include <dlfcn.h>      /* the dynamic linker include file for SunOS/Solaris */
#else
#include <sys/types.h>
#include <nlist.h>
#include <link.h>
#endif
```

```
extern int fred() ;

int main()
{
   void * handle ;
   void * symbol ;
#ifndef RTLD_LAZY
   int mode = 1 ;
#else
   int mode = RTLD_LAZY ;
#endif
   handle = dlopen("./dyna.$dlext", mode) ;
   if (handle == NULL) {
 printf ("1\n") ;
 fflush (stdout) ;
 exit(0);
   }
   symbol = dlsym(handle, "fred") ;
   if (symbol == NULL) {
 /* try putting a leading underscore */
 symbol = dlsym(handle, "_fred") ;
 if (symbol ==
 NULL) {
     printf ("2\n") ;
     fflush (stdout) ;
     exit(0);
 }
 printf ("3\n") ;
   }
   else
 printf ("4\n") ;
   fflush (stdout) ;
   exit(0);
}
EOM
 : Call the object file tmp-dyna.o in case dlext=o.
 if $cc $ccflags $cccdlflags -c dyna.c > /dev/null 2>&1 &&
  mv dyna${_o} tmp-dyna${_o} > /dev/null 2>&1 &&
  $ld -o dyna.$dlext $ldflags $lddlflags tmp-dyna${_o} > /dev/null 2>&1 &&
  $cc -o fred $ccflags $ldflags $cccdlflags $ccdlflags fred.c $libs > /dev/null 2>&1 && $to dyna.$dlext; then
  xxx=`$run ./fred`
  case $xxx in
  1) echo "Test program failed using dlopen." >&4
   echo "Perhaps you should not use dynamic loading." >&4;;
  2) echo "Test program failed using dlsym." >&4
   echo "Perhaps you should not use dynamic loading." >&4;;
  3) echo "dlsym needs a leading underscore" >&4
```

```
  val="$define" ;;
  4) echo "dlsym doesn't need a leading underscore." >&4;;
  esac
 else
  echo "I can't compile and run the test program." >&4
            echo "I'm guessing that dlsym
 doesn't need a leading underscore." >&4
 fi
 ;;
esac

$rm -f fred fred.* dyna.$dlext dyna.* tmp-dyna.*

set d_dlsymun
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_dlsymun.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isfinite: Inlibc cat Compile rm_try Setvar
?MAKE: -pick add $@ %<
?S:d_isfinite:
?S: This variable conditionally defines the HAS_ISFINITE symbol, which
?S: indicates to the C program that the isfinite() routine is available.
?S:.
?C:HAS_ISFINITE:
?C: This symbol, if defined, indicates that the isfinite routine is
?C: available to check whether a double is finite (non-infinity non-NaN).
?C:.
?LINT:set d_isfinite
?H:#$d_isfinite HAS_ISFINITE  /**/
?H:.
: check for isfinite
echo "Checking to see if you have isfinite..." >&4
$cat >try.c <<EOCP
#include <math.h>
int main() { return isfinite(0.0); }
EOCP
set try
```

```
if eval $compile; then
 val="$define"
 echo "You have isfinite."
else
 val="$undef"
 echo
 "You do not have isfinite."
fi
$rm_try
set d_isfinite
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_isfinite.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_waitpid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_waitpid.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_waitpid: Inlibc
?MAKE: -pick add $@ %<
?S:d_waitpid:
?S: This variable conditionally defines HAS_WAITPID if waitpid() is
?S: available to wait for child process.
?S:.
?C:HAS_WAITPID (WAITPID):
?C: This symbol, if defined, indicates that the waitpid routine is
?C: available to wait for child process.
?C:.
?H:#$d_waitpid HAS_WAITPID /**/
?H:.
?LINT:set
 d_waitpid
: see if waitpid exists
set waitpid d_waitpid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_waitpid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorbin.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorbin.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:d_vendorbin vendorbin vendorbinexp installvendorbin: Getfile \
 Setprefixvar Oldconfig Prefixit vendorprefix
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorbin:
?S: This variable contains the eventual value of the VENDORBIN symbol.
?S: It may have a ~ on the front.
?S: The standard distribution will put nothing in this directory.
?S: Vendors who distribute perl
 may wish to place additional
?S: binaries in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorbinexp:
?S: This variable is the ~name expanded version of vendorbin, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorbin="
?S:installvendorbin:
?S: This variable is really the same as vendorbinexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?S:d_vendorbin:
?S: This variable conditionally defines PERL_VENDORBIN.
?S:.
?C:PERL_VENDORBIN:
```

```
?C: If defined, this symbol contains the name of a directory
?C: for holding vendor-supplied executables.
?C: It may have a ~ on the front.
?C: The standard distribution will put nothing in this directory.
?C: Vendors who distribute perl may wish to place additional
?C: binaries in this directory with
?C:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?C: or equivalent.
  See INSTALL for details.
?C:.
?C:PERL_VENDORBIN_EXP:
?C: This symbol contains the ~name expanded version of VENDORBIN, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#$d_vendorbin PERL_VENDORBIN "$vendorbin"  /**/
?H:#$d_vendorbin PERL_VENDORBIN_EXP "$vendorbinexp"  /**/
?H:.
?LINT:change prefixvar
?LINT:set installvendorbin
: Set the vendorbin variables
case "$vendorprefix" in
") d_vendorbin="$undef"
 vendorbin="
 vendorbinexp="
 ;;
*) d_vendorbin="$define"
 : determine where vendor-supplied executables go.
 case "$vendorbin" in
 ") dflt=$vendorprefix/bin ;;
 *) dflt="$vendorbin" ;;
 esac
 fn=d~+
 rp='Pathname for the vendor-supplied executables directory?'
 . ./getfile
 vendorbin="$ans"
 vendorbinexp="$ansexp"
 ;;
esac
prefixvar=vendorbin
. ./installprefix
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/vendorbin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_lstat.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_lstat.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:28  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_lstat: Inlibc
?MAKE: -pick add $@ %<
?S:d_lstat:
?S: This variable conditionally defines HAS_LSTAT if lstat() is
?S: available to do file stats on symbolic links.
?S:.
?C:HAS_LSTAT (LSTAT):
?C: This symbol, if defined, indicates that the lstat routine is
?C: available to do file stats on symbolic links.
?C:.
?H:#$d_lstat HAS_LSTAT  /**/
?H:.
?LINT:set
 d_lstat
: see if lstat exists
set lstat d_lstat
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_lstat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pwritev.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_pwritev.U,v $
?RCS:
?MAKE:d_pwritev: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_pwritev:
?S: This variable conditionally defines the HAS_PWRITEV symbol, which
?S: indicates to the C program that the pwritev() routine is available.
?S:.
?C:HAS_PWRITEV :
?C: This symbol, if defined, indicates that the pwritev routine is
?C: available to perform vectored writes on a file descriptor at a
?C: given offset.
?C:.
?H:#$d_pwritev HAS_PWRITEV  /**/
?H:.
?LINT:set
 d_pwritev
: see if pwritev exists
set pwritev d_pwritev
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_pwritev.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getlogin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_getlogin.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:41  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_getlogin: Inlibc
?MAKE: -pick add $@ %<
?S:d_getlogin:
?S: This variable conditionally defines the HAS_GETLOGIN symbol, which
?S: indicates to the C program that the getlogin() routine is available
?S: to get the login name.
?S:.
?C:HAS_GETLOGIN :
?C: This symbol,
```

```
 if defined, indicates that the getlogin routine is
?C: available to get the login name.
?C:.
?H:#$d_getlogin HAS_GETLOGIN  /**/
?H:.
?LINT:set d_getlogin
: see if getlogin exists
set getlogin d_getlogin
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getlogin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_machcthr: Inhdr usethreads
?MAKE: -pick add $@ %<
?S:i_machcthr:
?S: This variable conditionally defines the I_MACH_CTHREADS symbol,
?S: and indicates whether a C program should include <mach/cthreads.h>.
?S:.
?C:I_MACH_CTHREADS:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <mach/cthreads.h>.
?C:.
?H:#$i_machcthr   I_MACH_CTHREADS /**/
?H:.
: see if mach cthreads are available
if test "X$usethreads" = "X$define"; then
 set mach/cthreads.h i_machcthr
 eval $inhdr
else
 i_machcthr="$undef"
fi
```

Found
 in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/threads/i_machcthr.U
No license file was found, but licenses were detected in source scan.

```
;###########################################################################
;# Jmake rules for building libraries, programs, scripts, and data files
;# $Id: Jmake.rules 18 2006-12-27 10:35:09Z rmanfredi $

/*
*     MACHINE-INDEPENDENT RULES -- DO NOT MODIFY
*/

/* $Id: Jmake.rules 18 2006-12-27 10:35:09Z rmanfredi $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* $Log: Jmake.rules,v $
* Revision 3.0.1.7  2004/08/22 08:28:58  ram
* patch71: random cleanup
*
* Revision 3.0.1.6  1997/02/28  14:56:01  ram
* patch61: now handles USRINC for dependencies
* patch61: smarter about dependencies
 computation
*
* Revision 3.0.1.5  1995/09/25  09:07:19  ram
* patch59: smarter sed command to strip /usr/include dependencies
*
* Revision 3.0.1.4  1995/07/25  13:33:59  ram
* patch56: install of script man pages can now cope with missing files
* patch56: the clobber target now removes the .config directory as well
*
* Revision 3.0.1.3  1995/03/21  08:35:28  ram
* patch52: suppressed extra argument to NormalProgramTarget call
*
* Revision 3.0.1.2  1995/01/11  14:49:55  ram
* patch45: new macros ShellScriptTargetExt and SimpleShellScriptTargetExt
* patch45: directory installation is now made via INSTALLDIR (Configure)
*
* Revision 3.0.1.1  1994/10/29  15:46:30  ram
* patch36: added RemoteDependency rule
*
* Revision 3.0  1993/08/18  12:04:14  ram
```

```
* Baseline for dist 3.0 netwide release.
*
*/

/* Please, edit only with tabstops = 4 (":set ts=4" under vi) */

/*
* AddedByConfigure:
* Gives name of the files generated by Configure that can safely
* be removed
 when a "make clobber" is issued. Not that it is useless
* to name config.h or config.sh because these are already taken care
* of by jmake.
*/
#define AddedByConfigure(files) @!\
local_clobber::   @@\
 $(RM) files

/*
* AddSuffix:
* Adds a sufix to the .SUFFIXES: list.
*/
#define AddSuffix(ext) @!\
|suffix ext


/*
* AllTarget:
* Generate rules to build necessary things during make all.
*/
#define AllTarget(depends) @!\
all:: depends    @!\
      @!\
local_realclean::   @@\
 $(RM) depends

/*
* RemoveTargetProgram:
* This is used in some other macros in order to remove the target
* before starting its building (saves disk space).  There should be
* no '@!' at the end of the '#define' line, because this macro is
* used *inside* building rules.
*/
#define RemoveTargetProgram(program) \
 $(RM) program @@\
 if test -f program^^^$(_EXE); then \ @@\
  $(MV) program^^^$(_EXE) program^^~^^^$(_EXE); fi
```

```
/*
* NormalProgramTarget:
* Generate rules to compile and link the
 indicated program; since
* it does not use any default object files, it may be used for
* multiple programs in the same Jmakefile.
*/
#define NormalProgramTarget(program,sources,objects) @!\
++OBJECTS objects @!\
++SOURCES sources @!\
NormalObjectRule()    @!\
AllTarget(program)    @!\
        @!\
program: objects    @@\
 RemoveTargetProgram($@)  @@\
 $(CC) -o $@ objects $(JLDFLAGS) $(LIBS) @!\


/*
* SingleProgramTarget:
* Obsolete version of NormalProgramTarget that doesn't have
* deplibs.
*/
#define SingleProgramTarget(program,objects,libs)  \
NormalProgramTarget(program,objects,libs)

/*
* SimpleProgramTarget:
* Generate rules for compiling and linking programs that only have
* one C source file.  It should only be used in Jmakefiles that
* describe a single program.
*/
#define SimpleProgramTarget(program) @!\
NormalProgramTarget(program,program.c,program.o)



/*
* ComplexProgramTarget:
* Generate rules for compiling and linking the program specified by
* $(OBJS) and
 $(SRCS), installing the program and its man page, and
* generating dependencies.  It should only be used in Jmakefiles
* that describe a single program.
*/
#define ComplexProgramTarget(program) @!\
++OBJECTS $(OBJS) @!\
++SOURCES $(SRCS) @!\
```

```
NormalObjectRule()     @!\
AllTarget(program)     @!\
        @!\
program: $(OBJS)     @@\
 RemoveTargetProgram($@)   @@\
 $(CC) -o $@ $(OBJS) $(JLDFLAGS) $(LIBS) @!\
        @!\
InstallProgram(program,$(BINDIR)) @!\
InstallManPage(program,$(MANSRC)) @!\
DependTarget()      @!\
LintTarget()


/*
* ComplexProgramTarget_1:
* Generate rules for compiling and linking the program specified by
* $(OBJS1) and $(SRCS1), installing the program and its man page,
* and generating dependencies for it and any programs described by
* $(SRCS2) and $(SRCS3).  It should be used to build the primary
* program in Jmakefiles that describe multiple programs.
*/
#define ComplexProgramTarget_1(program) @!\
++OBJECTS $(OBJS1) @!\
++SOURCES $(SRCS1) @!\
NormalObjectRule()     @!\
AllTarget(program)     @!\
        @!\
program:
 $(OBJS1)     @@\
 RemoveTargetProgram($@)   @@\
 $(CC) -o $@ $(OBJS1) $(JLDFLAGS) $(LIBS) @!\
        @!\
InstallProgram(program,$(BINDIR)) @!\
InstallManPage(program,$(MANSRC)) @!\
        @!\
DependTarget()      @!\
LintTarget()


/*
* ComplexProgramTarget_2:
* Generate rules for compiling and linking the program specified by
* $(OBJS2) and $(SRCS2) and installing the program and man page.
* It should be used to build the second program in Jmakefiles
* describing more than one program.
*/
#define ComplexProgramTarget_2(program) @!\
++OBJECTS $(OBJS2) @!\
```

```
++SOURCES $(SRCS2) @!\
NormalObjectRule()     @!\
AllTarget(program)     @!\
        @!\
program: $(OBJS2)     @@\
 RemoveTargetProgram($@)   @@\
 $(CC) -o $@ $(OBJS2) $(JLDFLAGS) $(LIBS) @!\
        @!\
InstallProgram(program,$(BINDIR)) @!\
InstallManPage(program,$(MANSRC))


/*
* ComplexProgramTarget_3:
* Generate rules for compiling and linking the
 program specified by
* $(OBJS3) and $(SRCS3) and installing the program and man page.  It
* should be used to build the third program in Jmakefiles describing
* more than one program.
*/
#define ComplexProgramTarget_3(program) @!\
++OBJECTS $(OBJS3) @!\
++SOURCES $(SRCS3) @!\
NormalObjectRule()     @!\
AllTarget(program)     @!\
        @!\
program: $(OBJS3)     @@\
 RemoveTargetProgram($@)   @@\
 $(CC) -o $@ $(OBJS3) $(JLDFLAGS) $(LIBS) @!\
        @!\
InstallProgram(program,$(BINDIR)) @!\
InstallManPage(program,$(MANSRC))


/*
* ComplexShellManualTarget:
* Builds manual pages that are to be extracted from .SH files into
* .$manext files.
*/
#define ComplexShellManualTarget(manpages) @!\
++MANPAGE manpages @!\
|once _ShellManualRule_  @!\
|rule:.SH.$manext:   @!\
|rule: /bin/sh $<   @!\
|rule:      @!\
-once      @!\
AddSuffix(.SH)    @!\
AddSuffix(.$manext)   @!\
```

```
AllTarget(manpages)   @!\
      @!\
local_install.man::   @@\
 _MakeInstallDirIgnore($(MANSRC)) \     @@\
 for
 file in manpages; do \  @@\
  (set -x; $(INSTALL) -c -m 444 $$file \ @@\
   $(INSTALL_PREFIX)$(MANSRC)) || exit 1; \ @@\
 done     @!\
      @!\
local_deinstall.man::  @@\
 @case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
 for file in manpages; do \  @@\
  (set -x; $(RM) $(INSTALL_PREFIX)$(MANSRC)/$$file); \ @@\
 done


/*
* Initialize:
* Puts the line symbol = value in the initialization section of
* Makefile.SH (the one that is subject to parameter substitutions).
*/
#define Initialize(symbol,value) @!\
+symbol = value


/*
* InstallLibrary:
* Generate rules to install the indicated library.
*/
#define InstallLibrary(libname,dest) @!\
local_install:: lib^^libname.a  @@\
 _MakeInstallDirIgnore(dest) \ @@\
 $(INSTALL) -c -m 644 lib^^libname.a $(INSTALL_PREFIX)^^^dest  @@\
 $(RANLIB) dest/lib^^libname.a @@\
 chmod 444 dest/lib^^libnane.a @!\
        @!\
local_deinstall::     @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/lib^^libname.a


/*
* InstallSharedLibrary:
* Generate rules to install
 the shared library.
*/
#define InstallSharedLibrary(libname,rev,dest) @!\
local_install:: lib^^libname.so.rev  @@\
```

```
 _MakeInstallDirIgnore(dest) \  @@\
 $(INSTALL) -c -m 444 lib^^libname.so.rev $(INSTALL_PREFIX)^^^dest @!\
        @!\
local_deinstall::      @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/lib^^libname.so.rev


/*
* InstallSharedLibraryData:
* Generate rules to install the shared library data
*/
#define InstallSharedLibraryData(libname,rev,dest) @!\
local_install:: lib^^libname.sa.rev  @@\
 _MakeInstallDirIgnore(dest) \  @@\
 $(INSTALL) -c -m 444 lib^^libname.sa.rev $(INSTALL_PREFIX)^^^dest @!\
        @!\
local_deinstall::     @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/lib^^libname.sa.rev


/*
* InstallLibraryAlias:
* Generate rules to create a link from one library name to another
* for the purposes of aliasing.
*/
#define InstallLibraryAlias(libname,alias,dest) @!\
local_install:: lib^^libname.a @@\
 $(RM) lib^^alias.a  @@\
 -(cd dest; $(LN) lib^^libname.a lib^^alias.a)
 @!\
      @!\
local_deinstall::   @@\
 $(RM) dest/lib^^alias.a


/*
* InstallLintLibrary:
* Generate rules to install the indicated lint library.
*/
#define InstallLintLibrary(libname,dest) @!\
install.ln:: llib-l^^libname.ln   @@\
 _MakeInstallDirIgnore(dest) \  @@\
 $(INSTALL) -c -m 444 llib-l^^libname.ln $(INSTALL_PREFIX)^^^dest @!\
      @!\
deinstall.ln::    @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/llib-l^^libname.ln
```

```
/*
* InstallManPageLong:
* Generate rules to install the indicated manual page, giving it an
* alternate name.  This is used for installing man pages whose base
* name without the .man suffix would normally be longer than 8
* characters (the limit for using source code control systems on
* files systems with short file names).
*/
#define InstallManPageLong(file,destdir,dest) @!\
local_install.man:: file.man   @@\
 _MakeInstallDirIgnore(destdir) \ @@\
 $(INSTALL) -c -m 444 file.man $(INSTALL_PREFIX)^^^destdir/dest.$(L) @!\
        @!\
local_deinstall.man::     @@\
 $(RM)
 $(INSTALL_PREFIX)^^^destdir/dest.$(L)  @!\


/*
* InstallManPage:
* Generate rules to install the indicated manual page.
*/
#define InstallManPage(file,dest) @!\
InstallManPageLong(file,dest,file)


/*
* InstallNonExec:
* Generate rules to install a data file using any special
*  install flags.
*/
#define InstallNonExec(file,dest) @!\
local_install:: file    @@\
 _MakeInstallDirIgnore(dest) \ @@\
 $(INSTALL) -c -m 444 file $(INSTALL_PREFIX)^^^dest @!\
        @!\
local_deinstall::     @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/file


/*
* InstallProgramWithFlags:
* Generate rules to install an executable program using given
* install flags.
*/
#define InstallProgramWithFlags(program,dest,flags) @!\
local_install:: program    @@\
 _MakeInstallDirIgnore(dest) \ @@\
```

```
 $(INSTALL) -c -s -m 555 flags program^^^$(_EXE) $(INSTALL_PREFIX)^^^dest @!\
        @!\
local_deinstall::     @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/program^^^$(_EXE)


/*
* InstallProgramNoStripWithFlags:
 * Generate rules to install an executable program using given
* install flags.
*/
#define InstallProgramNoStripWithFlags(program,dest,flags) @!\
local_install:: program    @@\
 _MakeInstallDirIgnore(dest) \ @@\
 $(INSTALL) -c -m 555 flags program^^^$(_EXE) $(INSTALL_PREFIX)^^^dest @!\
        @!\
local_deinstall::     @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/program^^^$(_EXE)


/*
* InstallProgram:
* Generate rules to install an executable program using any special
* install flags set in $(INSTALLFLAGS).
*/
#define InstallProgram(program,dest) @!\
InstallProgramWithFlags(program,dest,^^)


/*
* InstallProgramNoStrip:
* Generate rules to install an executable program using any special
* install flags set in $(INSTALLFLAGS), but without stripping the
* executable from debugging symbols.
*/
#define InstallProgramNoStrip(program,dest) @!\
InstallProgramNoStripWithFlags(program,dest,^^)


/*
* InstallScriptWithFlags:
* Generate rules to install an executable script using given
* install
 flags.
*/
#define InstallScriptWithFlags(script,dest,flags) @!\
local_install:: script    @@\
 _MakeInstallDirIgnore(dest) \ @@\
```

```
 $(INSTALL) -c -m 555 flags script $(INSTALL_PREFIX)^^^dest @!\
        @!\
local_deinstall::     @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/script


/*
* InstallScript:
* Generate rules to install an executable script using any special
* install flags set in $(INSTALLFLAGS).
*/
#define InstallScript(script,dest) @!\
InstallScriptWithFlags(script,dest,^^)


/*
* InstallScripts:
* Generate rules to install all the scripts listed in the generated
*  $(SCRIPTS) and $(LSCRIPTS) macros.
*/
#define InstallScripts() @!\
|once _InstallScripts_  @!\
local_install:: $(SCRIPTS) $(LSCRIPTS)    @@\
 _MakeInstallDirIgnore($(SCRIPTDIR)) \  @@\
 for file in $(SCRIPTS) $(LSCRIPTS); do \ @@\
  (set -x; \ @@\
  $(INSTALL) -c -m 555 $$file $(INSTALL_PREFIX)$(SCRIPTDIR)) || \ @@\
  exit 1; \ @@\
 done     @!\
       @!\
local_deinstall::   @@\
 @for file in $(SCRIPTS)
 $(LSCRIPTS); do \ @@\
  case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
  (set -x; $(RM) $(INSTALL_PREFIX)$(SCRIPTDIR)/$$file); \ @@\
 done     @!\
-once

/*
* InstallManScripts:
* Generate rule to install/deinstall manual pages for scripts listed
* in the automatically generated $(SCRIPTS) macro.
*/
#define InstallManScripts() @!\
|once _InstallManScripts_ @!\
?NOMAN:|skip    @!\
local_install.man::   @@\
 _MakeInstallDirIgnore($(MANSRC)) \  @@\
```

```
 for file in $(SCRIPTS); do \   @@\
  if test -f $$file.man; then \  @@\
   (set -x; \      @@\
   $(INSTALL) -c -m 444 $$file.man \ @@\
    $(INSTALL_PREFIX)$(MANSRC)/$$file.$(L)) || \ @@\
    exit 1; \ @@\
  fi; \    @@\
 done     @!\
       @!\
local_deinstall.man::  @@\
 case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
 for file in $(SCRIPTS); do \ @@\
  (set -x; $(RM) $(INSTALL_PREFIX)$(MANSRC)/$$file.$(L)); \ @@\
 done     @!\
       @!\
-skip      @!\
-once



/*
* LinkFileList:
* Link a list of list of files from one place to another
 */
#define LinkFileList(step,list,dir,sub) @!\
step:: list       @@\
 @case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
 echo " cd" dir; cd dir; for i in list; do (set -x; $(LN) sub/$$i .); done


/*
* InstallMultipleDestFlags:
* Generate rules to install multiple files at once during a particular
* step in the build using a specific set of install flags.
*/
#define InstallMultipleDestFlags(step,list,dest,flags) @!\
step:: list       @@\
 _MakeInstallDirIgnore(dest) \ @@\
 for i in list; do \    @@\
  (set -x; $(INSTALL) -c flags \ @@\
   $$i $(INSTALL_PREFIX)^^^dest) || exit 1;\ @@\
 done

/*
* DeinstallMultipleDest:
* Generate rules to deinstall multiple files at once during a particular
* step in the build.
*/
```

```
#define DeinstallMultipleDest(step,list,dest) @!\
step::        @@\
 @case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
 for i in list; do \    @@\
  (set -x; $(RM) $(INSTALL_PREFIX)^^^dest/$$i); \ @@\
 done

/*
* InstallMultiple:
* Generate rules to install multiple
 files at once during the install
* step of the build using any install flags set in $(INSTALLFLAGS)
* and deinstall them.
*/
#define InstallMultiple(list,dest) @!\
InstallMultipleDestFlags(local_install,list,dest,$(INSTALLFLAGS)) @!\
DeinstallMultipleDest(local_deinstall,list,dest)


/*
* InstallMultipleFlags:
* Generate rules to install multiple files at once during the
* install step of the build using the given install flags.
*/
#define InstallMultipleFlags(list,dest,flags) @!\
InstallMultipleDestFlags(local_install,list,dest,flags) @!\
DeinstallMultipleDest(local_deinstall,list,dest)


/*
* InstallMultipleMan:
* Generate rules to install a variety of manual pages
* during the install.man step of the build.
*/
#define InstallMultipleMan(list,dest) @!\
InstallMultipleDestFlags(local_install.man,list,dest,$(INSTALLFLAGS)) @!\
DeinstallMultipleDest(local_deinstall.man,list,dest)


/*
* DependDependency:
* Generate rules to build the makedepend program.
*/
#define DependDependency()
    @!\
depend:: TOPDIR/mkdep    @!\
         @!\
TOPDIR/mkdep:      @!\
```

```
?TOP: @echo "You have to run Configure first."; exit 1 @!\
%TOP: @echo "You have to run Configure in $(TOP) first."; exit 1


/*
* DependTarget:
* Generate rules to compute dependencies for all files listed
* in $(SOURCES) (automatically generated macro).
*/
#define DependTarget()    @!\
+USRINC = $usrinc @!\
|once _DependTarget_    @!\
DependDependency()     @!\
        @!\
depend::       @@\
 ($(SED) '/^# DO NOT DELETE/q' Makefile && \ @@\
 $(MKDEP) $(SOURCES) | \   @@\
 $(SED) -e 's:/usr/lib[^ ]*::g; s:$(USRINC)[^ ]*::g; ' \ @@\
  -e '/: / b print' -e '$$ b print' -e 'H; d; n; : print' \ @@\
  -e 'x; s/\\$$//; s/\\\n//g; s/ ^^ */ /g; s/ :/:/;' -e '/: *$$/d' \ @@\
 ) > Makefile.new    @@\
 cp Makefile Makefile.bak  @@\
 cp Makefile.new Makefile  @@\
 $(RM) Makefile.new    @!\
        @!\
-once


/*
* CleanTarget:
* Generate rules to remove any garbage files.
*/
#define CleanTarget()    @!\
?SUBDIRS:clean:
 sub_clean local_clean    @!\
%SUBDIRS:clean: local_clean       @!\
?SUBDIRS:realclean: sub_realclean local_realclean @!\
%SUBDIRS:realclean: local_realclean     @!\
?SUBDIRS:clobber: sub_clobber local_clobber   @!\
%SUBDIRS:clobber: local_clobber      @!\
        @!\
local_clean::       @@\
 if test -f core; then $(RM) core; fi @@\
 $(RM) *~ *.o     @!\
        @!\
local_realclean:: local_clean  @!\
?TOP: $(RM) -r UU     @!\
        @!\
```

```
local_clobber:: local_realclean  @!\
%TOP: $(RM) Makefile config.sh  @!\
?TOP: $(RM) config.sh config.h  @!\
?TOP: $(RM) -r .config    @!\
?TOP: $(RM) Makefile    @!\


/*
* InstallTarget:
* Generate rules to recursively install files
*/
#define InstallTarget()           @!\
?SUBDIRS:install:: local_install sub_install     @!\
%SUBDIRS:install:: local_install        @!\
?SUBDIRS:install.man:: maybe_install.man sub_install.man  @!\
%SUBDIRS:install.man:: maybe_install.man      @!\
?SUBDIRS:deinstall:: sub_deinstall local_deinstall    @!\
%SUBDIRS:deinstall::
 local_deinstall       @!\
?SUBDIRS:deinstall.man:: sub_deinstall.man maybe_deinstall.man @!\
%SUBDIRS:deinstall.man:: maybe_deinstall.man     @!\
              @!\
?MANSRC:install.man-yes: local_install.man      @!\
install.man-no:             @!\
?MANSRC:deinstall.man-yes: local_deinstall.man     @!\
deinstall.man-no:           @!\


/*
* TagsTarget:
* Generate rules to compute tags files for C source code.
*/
#define TagsTarget()    @!\
tags::       @@\
 $(CTAGS) -w *.[ch]    @@\
 $(CTAGS) -xw *.[ch] > tags  @!\
        @!\
local_clobber::      @@\
 $(RM) tags



/*
* BuildMakefileSH:
* Generate rules to build a Makefile.SH from an Jmakefile and any
* special jmake flags.  This is generally done automatically by the
* template or by any special Jmakefiles.
* This function will simply touch Makefile.SH if no $(TOP)/.package
```

```
* exists, assuming the Jmakefile is not in a production environment.
*/
#define BuildMakefileSH(jmakeflags) @!\
Makefile.SH:
 Jmakefile     @@\
 -@if test -f $(TOP)/.package; then \ @@\
  if test -f Makefile.SH; then \ @@\
   echo " $(RM) Makefile.SH~; $(MV) Makefile.SH Makefile.SH~"; \ @@\
   $(RM) Makefile.SH~; $(MV) Makefile.SH Makefile.SH~; \ @@\
  fi; \      @@\
  echo " $(JMAKE) -DTOPDIR=$(TOP) -DCURDIR=$(CURRENT)" jmakeflags; \ @@\
  $(JMAKE) -DTOPDIR=$(TOP) -DCURDIR=$(CURRENT) jmakeflags; \ @@\
 else touch $@; fi


/*
* BuildMakefile:
* Generate rules to build a Makefile from a Makefile.SH.
*/
#define BuildMakefile() @!\
Makefile: Makefile.SH    @@\
 /bin/sh Makefile.SH


/*
* MakefileTarget:
* Generate rules to build a normal Makefile.
*/
#define MakefileTarget()  @!\
BuildMakefileSH(^^)    @!\
BuildMakefile()


/*
* NormalObjectRule:
* Generate make rule to build usual object files.
*/
#define NormalObjectRule()   @!\
|once _ObjectRule_     @!\
|rule:.c.o:       @!\
|rule: $(CC) -c $(JCFLAGS) $<  @!\
|rule:        @!\
-once

/*
* NormalLibraryObjectRule:
* Generate make rules to build
```

```
 "normal" objects.
*/
#define NormalLibraryObjectRule() @!\
|once _ObjectRule_     @!\
|rule:.c.o:       @!\
|rule: $(RM) $@      @!\
|rule: $(CC) -c $(JCFLAGS) $<  @!\
|rule:        @!\
-once

/*
* ProfiledLibraryObjectRule:
* Generate make rules to build both profiled and "normal" objects.
*/
#define ProfiledLibraryObjectRule() @!\
all::        @@\
 @if [ ! -d profiled ]; then mkdir profiled; fi @!\
        @!\
|rule:.c.o:       @!\
|rule: $(RM) $@ profiled/$@   @!\
|rule: $(CC) -pg -c $(JCFLAGS) $*.c @!\
|rule: $(MV) $*.o profiled/$*.o  @!\
|rule: $(CC) -c $(JCFLAGS) $*.c  @!\
|rule:        @!\
local_clean::       @@\
 -@if [ -d profiled ]; then echo " $(RM) profiled/?*.o"; \ @@\
  $(RM) profiled/?*.o; fi


/*
* DebuggedLibraryObjectRule:
* Generate make rules to build both debuggable and "normal"
* objects.
*/
#define DebuggedLibraryObjectRule()     @!\
all::        @@\
 @if [ ! -d debugger ]; then mkdir debugger; fi @!\
        @!\
|rule:.c.o:       @!\
|rule: $(RM) $@
 debugger/$@   @!\
|rule: $(CC) -g -c $(JCFLAGS) $*.c @!\
|rule: $(MV) $*.o debugger/$*.o  @!\
|rule: $(CC) -c $(JCFLAGS) $*.c  @!\
|rule:        @!\
local_clean::      @@\
 -@if [ -d debugger ]; then echo " $(RM) debugger/?*.o"; \ @@\
  $(RM) debugger/?*.o; fi
```

```
/*
* DebuggedAndProfiledLibraryOjbectRule:
* Generate make rules to build debuggable, profiled, and "normal"
* objects.
*/
#define DebuggedAndProfiledLibraryObjectRule() @!\
all::        @@\
 @if [ ! -d profiled ]; then mkdir profiled; fi @@\
 @if [ ! -d debugger ]; then mkdir debugger; fi @!\
        @!\
|rule:.c.o:       @!\
|rule: $(RM) $@ profiled/$@ debugger/$@ @!\
|rule: $(CC) -pg -c $(JCFLAGS) $*.c  @!\
|rule: $(MV) $*.o profiled/$*.o   @!\
|rule: $(CC) -g -c $(JCFLAGS) $*.c  @!\
|rule: $(MV) $*.o debugger/$*.o   @!\
|rule: $(CC) -c $(JCFLAGS) $*.c   @!\
|rule:        @!\
local_clean::       @@\
 -@if [ -d profiled ]; then echo " $(RM) profiled/?*.o"; \ @@\
  $(RM) profiled/?*.o; fi   @@\
 -@if [ -d debugger ];
 then echo " $(RM) debugger/?*.o"; \ @@\
  $(RM) debugger/?*.o; fi


/*
* SharedLibraryObjectRule:
* Generate make rules to build shared and "normal" object files.
*/
#define SharedLibraryObjectRule()     @!\
all::       @@\
 @if [ ! -d shared ]; then mkdir shared; fi  @!\
        @!\
|rule:.c.o:       @!\
|rule: $(RM) $@ shared/$@   @!\
|rule: $(CC) -pic -c $(SHAREDCODEDEF) $(SHLIBDEF) $(JCFLAGS) $*.c @!\
|rule: $(MV) $*.o shared/$*.o  @!\
|rule: $(CC) -c $(SHLIBDEF) $(JCFLAGS) $*.c    @!\
|rule:       @!\
local_clean::      @@\
 -@if [ -d shared ]; then echo " $(RM) shared/?*.o"; \  @@\
  $(RM) shared/?*.o; fi

/*
* SharedAndDebuggedLibraryObjectRule:
```

```
* Generate make rules to build shared, debuggable, and "normal"
* object files.
*/
#define SharedAndDebuggedLibraryObjectRule() @!\
all::        @@\
 @if [ ! -d shared ]; then mkdir shared; fi  @@\
 @if [ ! -d debugger ]; then mkdir debugger; fi @!\
        @!\
|rule:.c.o:        @!\
|rule: $(RM) $@ shared/$@ debugger/$@  @!\
|rule:
 $(CC) -pic -c $(SHAREDCODEDEF) $(SHLIBDEF) $(JCFLAGS) $*.c @!\
|rule: $(MV) $*.o shared/$*.o    @!\
|rule: $(CC) -g -c $(SHLIBDEF) $(JCFLAGS) $*.c @!\
|rule: $(MV) $*.o debugger/$*.o    @!\
|rule: $(CC) -c $(SHLIBDEF) $(JCFLAGS) $*.c @!\
|rule:        @!\
local_clean::        @@\
 -@if [ -d shared ]; then echo " $(RM) shared/?*.o"; \  @@\
  $(RM) shared/?*.o; fi    @@\
 -@if [ -d debugger ]; then echo " $(RM) debugger/?*.o"; \ @@\
  $(RM) debugger/?*.o; fi

/*
* SpecialSharedAndDebuggedObjectRule:
* Generate rules to compile a file with special flags and to make
* shared and debuggable versions.
*/
#define SpecialSharedAndDebuggedObjectRule(objs,depends,options) @!\
all::        @@\
 @if [ ! -d shared ]; then mkdir shared; fi  @@\
 @if [ ! -d debugger ]; then mkdir debugger; fi @!\
        @!\
objs: depends       @@\
 $(RM) $@ shared/$@ debugger/$@  @@\
 $(CC) -pic -c $(SHAREDCODEDEF) $(SHLIBDEF) $(JCFLAGS) options $*.c @@\
 $(MV) $*.o shared/$*.o    @@\
 $(CC)
 -g -c $(SHLIBDEF) $(JCFLAGS) options $*.c   @@\
 $(MV) $*.o debugger/$*.o   @@\
 $(CC) -c $(SHLIBDEF) $(JCFLAGS) options $*.c

/*
* SpecialSharedObjectRule:
* Generate rules to compile a file with special flags and to make
* shared and debuggable versions.
*/
#define SpecialSharedObjectRule(objs,depends,options)  @!\
```

```
all::        @@\
 @if [ ! -d shared ]; then mkdir shared; fi  @!\
        @!\
objs: depends       @@\
 $(RM) $@ shared/$@      @@\
 $(CC) -pic -c $(SHAREDCODEDEF) $(SHLIBDEF) $(JCFLAGS) options $*.c @@\
 $(MV) $*.o shared/$*.o    @@\
 $(CC) -c $(SHLIBDEF) $(JCFLAGS) options $*.c


/*
* SpecialObjectRule:
* Generate rules to compile a file with special flags.
*/
#define SpecialObjectRule(objs,depends,options)  @!\
objs: depends       @@\
 $(RM) $@       @@\
 $(CC) -c $(JCFLAGS) options $*.c


/*
* SpecialProfiledObjectRule:
* Generate rules to compile a file with special flags and to make a
* profiled version.
*/
#define SpecialProfiledObjectRule(objs,depends,options)   @!\
all::        @@\
 @if
 [ ! -d profiled ]; then mkdir profiled; fi @!\
        @!\
objs: depends       @@\
 $(RM) $@ profiled/$@    @@\
 $(CC) -pg -c $(JCFLAGS) options $*.c @@\
 $(MV) $*.o profiled/$*.o   @@\
 $(CC) -c $(JCFLAGS) options $*.c


/*
* SpecialDebuggedObjectRule:
* Generate rules to compile a file with special flags and to make a
* debuggable version.
*/
#define SpecialDebuggedObjectRule(objs,depends,options) @!\
all::        @@\
 @if [ ! -d debugger ]; then mkdir debugger; fi @!\
        @!\
objs: depends       @@\
 $(RM) $@ debugger/$@    @@\
```

```
 $(CC) -g -c $(JCFLAGS) options $*.c @@\
 $(MV) $*.o debugger/$*.o   @@\
 $(CC) -c $(JCFLAGS) options $*.c


/*
* SpecialDebuggedAndProfiledObjectRule:
* Generate rules to compile a file with special flags and to make
* debuggable and profiled versions.
*/
#define SpecialDebuggedAndProfiledObjectRule(objs,depends,options) @!\
all::        @@\
 @if [ ! -d profiled ]; then mkdir profiled; fi @@\
 @if [ ! -d
 debugger ]; then mkdir debugger; fi @!\
        @!\
objs: depends       @@\
 $(RM) $@ profiled/$@ debugger/$@ @@\
 $(CC) -pg -c $(JCFLAGS) options $*.c @@\
 $(MV) $*.o profiled/$*.o   @@\
 $(CC) -g -c $(JCFLAGS) options $*.c @@\
 $(MV) $*.o debugger/$*.o   @@\
 $(CC) -c $(JCFLAGS) options $*.c


/*
* NormalLibraryTarget:
* Generate rules to create a library. The 'srclist' and 'objlist'
* parameters are added to SOURCES and OBJECTS macros. The 'srclist'
* is not otherwise used by this rule, but is necessary for make depend.
*/
#define NormalLibraryTarget(libname,srclist,objlist) @!\
++OBJECTS objlist @!\
++SOURCES srclist @!\
NormalLibraryObjectRule()  @!\
AllTarget(lib^^libname.a)  @!\
       @!\
lib^^libname.a: objlist   @@\
 $(RM) $@     @@\
 $(AR) $@ objlist   @@\
 $(RANLIB) $@


/*
* NormalSharedLibraryTarget:
* Generate rules to create a shared library; build it into a
* different name so that the we don't hose people by having the
* library gone for long periods.
```

```
*/
#define
 NormalSharedLibraryTarget(libname,rev,solist) @!\
AllTarget(lib^^libname.so.rev) @!\
        @!\
lib^^libname.so.rev:  solist  @@\
 $(RM) $@~      @@\
 (cd shared; $(LD) -o ../$@~ -assert pure-text solist)  @@\
 $(RM) $@       @@\
 $(MV) $@~ $@

/*
* NormalSharedLibraryDataTarget:
* Generate rules to create shlib data file; build it into a
* different name so that the we don't hose people by having the
* library gone for long periods.
*/
#define NormalSharedLibraryDataTarget(libname,rev,salist) @!\
AllTarget(lib^^libname.sa.rev) @!\
        @!\
lib^^libname.sa.rev:  salist  @@\
 $(RM) $@      @@\
 $(AR) $@ salist     @@\
 $(RANLIB) $@


/*
* NormalLibraryTarget2:
* Generate rules to create a library in two steps.  This is used to
* create libraries with large numbers of files.
*/
#define NormalLibraryTarget2(libname,srclist,objlist1,objlist2) @!\
++SOURCES srclist @!\
++OBJECTS objlist1 @!\
++OBJECTS objlist2 @!\
NormalLibraryObjectRule()   @!\
AllTarget(lib^^libname.a)   @!\
        @!\
lib^^libname.a:
 objlist1 objlist2 @@\
 $(RM) $@      @@\
 $(AR) $@ objlist1    @@\
 $(AR) $@ objlist2    @@\
 $(RANLIB) $@


/*
* ProfiledLibraryTarget:
```

```
* Generate rules to create a profiled library.
*/
#define ProfiledLibraryTarget(libname,srclist,objlist) @!\
++SOURCES srclist @!\
++OBJECTS objlist @!\
AllTarget(lib^^libname^^_p.a)  @!\
        @!\
lib^^libname^^_p.a: objlist   @@\
 $(RM) $@      @@\
 cd profiled; $(AR) ../$@ objlist @@\
 $(RANLIB) $@


/*
* DebuggedLibraryTarget:
* Generate rules to create a debuggable library.
*/
#define DebuggedLibraryTarget(libname,srclist,objlist) @!\
++SOURCES srclist @!\
++OBJECTS objlist @!\
AllTarget(lib^^libname^^_d.a)  @!\
        @!\
lib^^libname^^_d.a: objlist   @@\
 $(RM) $@       @@\
 cd debugger; $(AR) ../$@ objlist @@\
 $(RANLIB) $@


/*
* AliasedLibraryTarget:
* Generate rules to link one library to another.
*/
#define AliasedLibraryTarget(libname,alias) @!\
AllTarget(lib^^alias.a)   @!\
        @!\
lib^^alias.a:
 lib^^libname.a @@\
 $(RM) $@     @@\
 $(LN) lib^^libname.a $@


/*
* PrelinkedRelocatableTarget:
* Generate rules to produce a relocatable object file instead of a
* library.
*/
#define PrelinkedRelocatableTarget(objname,objlist,libs) @!\
AllTarget(objname.o)    @!\
```

```
        @!\
objname.o: objlist     @@\
 $(RM) $@      @@\
 $(LD) $(JLDFLAGS) -r objlist -o $@ libs


/*
* NormalObjectTarget:
* Generate rules to produce a single object file.o from a file.c.
*/
#define NormalObjectTarget(file) @!\
++SOURCES file^^.c     @!\
AllTarget(file^^.o)     @!\
NormalObjectRule()

/*
* NormalRelocatableTarget:
* Generate rules to produce a relocatable object file instead of a
* library.
*/
#define NormalRelocatableTarget(objname,objlist) @!\
AllTarget(objname.o)    @!\
        @!\
objname.o: objlist     @@\
 $(RM) $@      @@\
 $(LD) $(JLDFLAGS) -r objlist -o $@


/*
* ProfiledRelocatableTarget:
* Generate rules to produce a profiled relocatable object file
* instead
 of a library.
*/
#define ProfiledRelocatableTarget(objname,objlist) @!\
AllTarget(objname^^_p.o)  @!\
       @!\
objname^^_p.o: objlist   @@\
 $(RM) $@     @@\
 $(LD) -X -r objlist -o $@


/*
* DebuggedRelocatableTarget:
* Generate rules to produce a debuggable relocatable object file
* instead of a library.
*/
#define DebuggedRelocatableTarget(objname,objlist) @!\
```

```
AllTarget(objname^^_d.o)  @!\
        @!\
objname^^_d.o: objlist   @@\
 $(RM) $@     @@\
 $(LD) -X -r objlist -o $@

/*
* LintLibraryTarget:
* Generate rules to create a lint library.  Note that the lint
* library is always forced to be newer than the library itself.
*/
#define LintLibraryTarget(libname,srclist) @!\
lintlib:: llib-l^^libname.ln @!\
        @!\
llib-l^^libname.ln: srclist  @@\
 $(RM) $@     @@\
 $(LINT) $(LINTLIBFLAG)^^libname $(LINTFLAGS) srclist


/*
* NormalLintTarget:
* Generate rules to lint a set of sources.
*/
#define NormalLintTarget(srclist) @!\
lint:        @@\
 $(LINT) $(LINTFLAGS) srclist
 $(LINTLIBS)


/*
* LintTarget:
* Generate rules to lint $(SOURCES) (automatically generated)
*/
#define LintTarget()   @!\
|once _LintTarget_    @!\
NormalLintTarget($(SOURCES)) @!\
-once


/*
* LinkSourceFile:
* Snag source file from some other directory
*/
#define LinkSourceFile(src,dir)  @!\
src:  dir/src   @@\
 $(RM) $@   @@\
 $(LN) $? $@   @!\
```

```
/*
* MakeSubincludesForBuild:
* Make includes in sub directories.
*/
#define MakeSubincludesForBuild(step,dir,srclist) @!\
step::  dir srclist        @@\
 @-(list=`echo srclist | sed -e 's/[^ ]*\///g'`; \  @@\
  set -x; cd dir; $(RM) $$list)   @@\
 @for i in srclist; do \      @@\
  (set -x; cd dir; $(LN) ../$$i .) || exit 1; \  @@\
 done          @!\
           @!\
MakeDirectories(dir,dir)      @!\
           @!\
local_realclean::         @@\
 @-(if [ -d dir ]; then \     @@\
  list=`echo srclist | sed -e 's/[^ ]*\///g'`; \  @@\
  set -x; cd dir; $(RM) $$list; fi)


/*
* CommonSubdirsRule:
* Rule for making $(TARGET) in
 every subdirectory, with $(VERB) as
* verbose message and $(FLAGS) as additional flags.
*/
#define CommonSubdirsRule(dirs) @!\
subdirs:       @@\
 @case '${MFLAGS}' in *[ik]*) set +e;; esac; \   @@\
 for i in dirs ;\     @@\
 do \        @@\
  (cd $$i ; echo $(VERB) "in $(DIR)$$i..."; \  @@\
   $(MAKE) $(MFLAGS) $(FLAGS) $(TARGET)) || exit 1; \ @@\
 done


/*
* NamedTargetSubdirsRule:
* Recursively make a series of steps in the specified directories.
*/
#define NamedTargetSubdirsRule(dirs,name,verb,flags) @!\
name::         @@\
 @case '${MFLAGS}' in *[ik]*) set +e;; esac; \  @@\
 for i in dirs ;\     @@\
 do \        @@\
  (cd $$i ; echo verb "in $(DIR)$$i..."; \ @@\
   $(MAKE) $(MFLAGS) flags name) || exit 1; \ @@\
```

```
 done


/*
* NamedTargetSubdirs:
* Recursively make a series of steps.
*/
#define NamedTargetSubdirs(name,verb,flags)  @!\
name::          @@\
 @$(MAKE) subdirs TARGET=name VERB=verb FLAGS=flags


/*
* NamedSubTargetSubdirs:
* Recursively make a series of steps,
 like NamedTargetSubdirs.
* However, the supplied "name" has "sub_" prefixed to it.
*/
#define NamedSubTargetSubdirs(name,verb,flags) @!\
sub_^^^name::          @@\
 @$(MAKE) subdirs TARGET=name VERB=verb FLAGS=flags

/*
* NamedDepthTargetSubdirs:
* Recursively make a series of steps. We first enter the
* subdirectories, then perform the local entries.
* The supplied "name" has "sub_" prefixed to it.
*/
#define NamedDepthTargetSubdirs(name,verb,flags)  @!\
sub_^^^name::      @@\
 @$(MAKE) subdirs TARGET=name VERB=verb FLAGS=flags @@\
 @echo "Back to $(CURRENT) for "name^^...


/*
* MakeSubdirs:
* Generate rules to do makes in the given subdirectories.
*/
#define MakeSubdirs() \
NamedTargetSubdirs(all,"Making all",^^)


/*
* DependDirs:
* Generate rules to recursively compute dependencies as part of the
* make depend step.
*/
#define DependDirs(dirs) \
```

```
NamedTargetSubdirsRule(dirs,depend,"Depending",^^)


/*
* DependSubdirs:
* Generate rules to recursively compute dependencies
 as part of the
* make depend step.
*/
#define DependSubdirs() \
DependDirs($(SUBDIRS))


/*
* InstallSubdirs:
* Generate rules to recursively install and deinstall programs and
* files.
*/
#define InstallSubdirs() \
NamedSubTargetSubdirs(install,"Installing",^^) @!\
NamedDepthTargetSubdirs(deinstall,"Deinstalling",^^)


/*
* InstallManSubdirs:
* Generate rules to recursively install and deinstall manual pages.
*/
#define InstallManSubdirs() \
NamedSubTargetSubdirs(install.man,"Installing man pages",^^) @!\
NamedDepthTargetSubdirs(deinstall.man,"Deinstalling man pages",^^)


/*
* IncludesSubdirs:
* Generate rules to recursively put include files in build
*/
#define IncludesSubdirs() \
NamedTargetSubdirs(includes,including,^^)


/*
* CleanSubdirs:
* Generate rules to recursively clean out garbage files.
*/
#define CleanSubdirs() \
NamedDepthTargetSubdirs(clean,"Cleaning",^^) @!\
NamedDepthTargetSubdirs(realclean,"Real cleaning",^^) @!\
NamedDepthTargetSubdirs(clobber,"Clobbering",^^)
```

```
/*
 * TagSubdirs:
* Generate rules to recursively create tags files.
*/
#define TagSubdirs(dirs) \
NamedTargetSubdirsRule(dirs,tag,"Tagging",^^)

/*
* MakeLintSubdirs:
* Generate rules to recursively lint directories as part of the
* named step.
*/
#define MakeLintSubdirs(dirs,target) \
NamedTargetSubdirsRule(dirs,target,"Linting",^^)


/*
* LintDirs:
* Generate rules to recursively lint directories as part of the
* make lint step.
*/
#define LintDirs(dirs) \
MakeLintSubdirs(dirs,lint)


/*
* LintSubdirs:
* Generate rules to recursively lint directories as part of the
* make lint step.
*/
#define LintSubdirs() \
LintDirs($(SUBDIRS))


/*
* MakeDirs:
* Creates a set of directories, even if some directories in the path
* do not already exist. There should be no '@!' at the end of the
* '#define' line, because this macro is used *inside* building rules.
*/
#define MakeDirs(dirs) \
 @case '${MFLAGS}' in *[i]*) set +e;; esac; \   @@\
 for dir in dirs;
 do \         @@\
  (set -x; test -d $$dir || $(INSTALLDIR) $$dir) || \ @@\
  exit 1; \  @@\
```

```
 done

/*
* _MakeInstallDirs:
* Creates a set of intall directories, even if some directories in the path
* do not already exist. There should be no '@!' at the end of the
* '#define' line, because this macro is used *inside* building rules.
*/
#define _MakeInstallDirs(dirs) \
 @case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
 for dir in dirs; do \       @@\
  _MakeInstallDir($$dir) \     @@\
 done

/*
* _MakeInstallDir:
* Internal macro to create a missing install directory.
*/
#define _MakeInstallDir(dir) \
 (set -x; test -d $(INSTALL_PREFIX)^^^dir || \ @@\
  $(INSTALLDIR) $(INSTALL_PREFIX)^^^dir);

/*
* _MakeInstallDirIgnore:
* Same as _MakeInstallDir but handles "make -i" as well.
*/
#define _MakeInstallDirIgnore(dir) \
 @case '${MFLAGS}' in *[i]*) set +e;; esac;  \ @@\
 _MakeInstallDir(dir)

/*
* _RmInstallDirs:
* Removes a set of intall directories.
* There should be no '@!'
 at the end of the '#define' line, because this
* macro is used *inside* building rules.
*/
#define _RmInstallDirs(dirs) \
 @case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
 for dir in dirs; do \       @@\
  (set -x; test -d $$dir && $(RM) -r $(INSTALL_PREFIX)$$dir); \ @@\
 done

/*
* MakeDirectories:
* Generate rules to create a hierarchy of directories.
*/
#define MakeDirectories(step,dirs)  @!\
```

```
step::        @@\
 MakeDirs(dirs)


/*
* MakeInstallDirectories:
* Generate a rule to create a set of directories at installation
* time (removed by deinstall).
*/
#define MakeInstallDirectories(dirs) @!\
local_install::    @@\
 _MakeInstallDirs(dirs) @!\
      @!\
local_deinstall::   @@\
 _RmInstallDirs(dirs)


/*
* MakeLintLibSubdirs:
* Generate rules to recursively create lint libraries.
*/
#define MakeLintLibSubdirs(dirs) @!\
MakeLintSubdirs(dirs,lintlib)


/*
* MakeMakeSubdirs:
* Generate rules to recursively recreate target as part of the
* specified step in the build.
  This assumes Makefile.SH has
* already been built (which is the case for a delivery), but does
* not rely on the existence of a Makefile.
*/
#define MakeMakeSubdirs(target) @!\
target::        @@\
 @case '${MFLAGS}' in *[ik]*) set +e;; esac; \ @@\
 for i in $(SUBDIRS);\    @@\
 do \        @@\
  echo "Making "target" in $(DIR)$$i..."; \ @@\
  (cd $$i || exit 1; \   @@\
  if test ! -f Makefile; then /bin/sh Makefile.SH; fi; \ @@\
  $(MAKE) $(MFLAGS) target) || exit 1;\ @@\
 done


/*
* MakeMakefilesSH:
* Generate rules to recursively recreate target as part of the
```

```
* specified step in the build.  If $(TOP) is set to an absolute
* path, don't prepend the ../ prefix.  This makes running things
* outside of the source tree to be much easier.
*/
#define MakeMakefilesSH()  @!\
Makefiles.SH:: Makefile.SH    @@\
 @case '${MFLAGS}' in *[ik]*) set +e;; esac; \ @@\
 for i in $(SUBDIRS);\     @@\
 do \        @@\
  case "$(DIR)$$i/" in \        @@\
  ^^*^^/^^*^^/^^*^^/^^*^^/) newtop=../../../..;;
 \ @@\
  ^^*^^/^^*^^/^^*^^/) newtop=../../..;; \    @@\
  ^^*^^/^^*^^/) newtop=../..;; \      @@\
  *^^/) newtop=..;; \         @@\
  esac; \            @@\
  case "$(TOP)" in \    @@\
  /^^*) newtop="$(TOP)" ;; \  @@\
  esac; \       @@\
  echo "Making Makefiles.SH in $(DIR)$$i..."; \ @@\
  (cd $$i || exit 1; \   @@\
   if test -f Jmakefile; then \ @@\
    $(MAKE) $(MFLAGS) -f ../Makefile \ @@\
     Makefile TOP=$$newtop CURRENT=$(DIR)$$i && \  @@\
    $(MAKE) $(MFLAGS) Makefiles.SH; \ @@\
   fi; \      @@\
  ) || exit 1; \ @@\
 done


/*
* MakefileSubdirs:
* Generate rules to create Makefiles.
*/
#define MakefileSubdirs()  @!\
MakeMakeSubdirs(Makefiles)  @!\
MakeMakefilesSH()


/*
* CppScriptTarget:
* Generate rules to create a shell script by running the input
* through cpp.
*/
#define CppScriptTarget(dst,src,defs,deplist) @!\
dst::  src deplist      @@\
 $(RM) $@       @@\
 $(CPP) defs <src | \    @@\
```

```
  sed -e '/^#  *[0-9][0-9]*  *.*$$/d' >$@  @@\
 chmod a+x $@


/*
 * MakeScriptFromCpp:
* Generate rules to create a script from a file with a
* .cpp suffix.
*/
#define MakeScriptFromCpp(name,defs) @!\
CppScriptTarget(name,name.cpp,defs,^^)


/*
* ShellScriptTargetExt:
* Generate rules to create and install a set of scripts from
* ext files (.sh and .SH are the most common examples). Man pages
* derived from the name of the scripts are also installed unless
* NoManPages() is specified.
*/
#define ShellScriptTargetExt(scripts,ext) @!\
++SCRIPTS scripts @!\
SimpleShellScriptTargetExt(scripts,ext)  @!\
InstallScripts()       @!\
InstallManScripts()


/*
* ShellScriptTarget:
* Generate rules to create and install a set of scripts from
* .SH files. Man pages derived from the name of the scripts are
* also installed unless NoManPages() is specified.
*/
#define ShellScriptTarget(scripts) @!\
ShellScriptTargetExt(scripts,.SH)


/*
* SimpleShellScriptTargetExt:
* Generate rules to create a set of scripts from ext files where
* ext is usually
 something like .sh or .SH, or whatever file
* extension you like..
*/
#define SimpleShellScriptTargetExt(scripts,ext) @!\
AllTarget(scripts)   @!\
       @!\
|expand s!scripts!   @!\
```

```
!s: !s^^ext     @@\
 /bin/sh !s^^ext   @!\
       @!\
-expand


/*
* SimpleShellScriptTarget:
* Generate rules to create a set of scripts from .SH files.
*/
#define SimpleShellScriptTarget(scripts) @!\
SimpleShellScriptTargetExt(scripts,.SH)


/*
* ShellScriptLongTarget:
* Generate rules to create a set of scripts from .SH files where
* the name of the generated file is different from the basename of
* the .SH file (when, for instance, the total length with the .SH
* extension would not leave enough space for RCS ,v extension).
*/
#define ShellScriptLongTarget(basename,scriptname) @!\
++LSCRIPTS scriptname @!\
AllTarget(scriptname)  @!\
       @!\
scriptname: basename^^.SH @@\
 /bin/sh basename^^.SH @!\
       @!\
InstallScripts()   @!\
?NOMAN:|skip    @!\
InstallManPageLong(basename,$(MANSRC),scriptname) @!\
-skip


/*
 * ForceTarget:
* The force target will force reconstruction of all the other
* targets which include .FORCE in their own dependencies.
*/
#define ForceTarget() @!\
|once _force_   @!\
.FORCE:     @!\
      @!\
-once


/*
* RemoteTargetDependency:
```

```
* A local target may rely on a remote dependency (e.g. a library)
* made in a separate directory. This rule explicits the dependency
* and forces a make of that dependency in the remote directory.
*/
#define RemoteTargetDependency(target,directory,dependency) @!\
RemoteDependency(directory,dependency) @!\
target: directory/^^^dependency @!\


/*
* RemoteDependency:
* Specify rules for making a remote dependency.
*/
#define RemoteDependency(directory,dependency) @!\
ForceTarget()       @!\
|once =directory/^^^dependency=   @!\
directory/^^^dependency: .FORCE   @@\
 @echo "Checking "^^^dependency" in "^^^directory"..." @@\
 cd ^^^directory; $(MAKE) ^^^dependency @@\
 @echo "Continuing in $(CURRENT)..." @!\
     @!\
-once

/*
 * SetSubdirs:
* Actually forces the definition of SUBDIRS, and lets the user
* specify what the sub-directories are.  This will be added to the
* customization part.
*/
#define SetSubdirs(subdirs) @!\
>SUBDIRS @!\
+SUBDIRS = subdirs


/*
* NoManPages:
* Actually forces the definition of NOMAN, which tells the jmake
* program to not generate rules for installing manual pages.
*/
#define NoManPages() @!\
>NOMAN


/*
* Expand:
* This powerful macro expands the `rule' given a `pattern'. It
* relies on a built-in command in jmake. The expansion is
* documented in the short notes file that comes with jmake and
```

```
* gives some insights on the internal syntax.
*/
#define Expand(rule, pattern) @!\
|expand pattern @!\
rule @!\
-expand


/*
* Lex and yacc stuff.
*/

/*
* YaccRule:
* This is the rule which is used to build a .c file from a .y file.
*/
#define YaccRule() @!\
AddSuffix(.y)     @!\
|once _YaccRule_    @!\
|rule:.y.c:      @!\
|rule: $(YACC) $(JYFLAGS)
 $< @!\
|rule: $(MV) y.tab.c $@   @!\
|rule:       @!\
-once

/*
* SimpleYaccTarget:
* Declare a yacc base.y file to be used in the building of the
* specified target program. The source file must be given without
* its final .y extension. The name of the .c and .o will be
* derived from the source file basename provided.
*/
#define SimpleYaccTarget(program,base) @!\
++SOURCES base.y @!\
++OBJECTS base.o @!\
YaccRule()    @!\
program: base.c   @!\
      @!\
local_realclean::  @@\
 $(RM) base.c  @!\


/*
* ComplexYaccTarget:
* Declare a yacc base.y file to be used in the building of the
* specified target program. The source file must be given without
* its final .y extension. The name of the .c and .o will be
```

```
* derived from the source file basename provided.
* The difference with SimpleYaccTarget is the identifying process
* where all the 'yy' are replaced by the specified prefix.
*/
#define ComplexYaccTarget(program,base,prefix) @!\
++SOURCES base.y @!\
++OBJECTS base.o
 @!\
program: base.c   @!\
     @!\
base.c: base.y     @@\
 $(YACC) $(JYFLAGS) base.y @@\
 $(SED) -e 's/yy\(.\)/prefix\1/g' < y.tab.c > base.c @@\
 $(SED) -e 's/yy\(.\)/prefix\1/g' < y.tab.h > base.h @@\
 $(RM) y.tab.c y.tab.h @!\
      @!\
local_realclean::  @@\
 $(RM) base.c  @!\


/*
* SimpleYaccInclude:
* Declare that program will need an include file produced by
* the output of yacc on base.y, which typically produces a file
* named y.tab.h, which will be renamed as base.h.
* The only problem is that the dependencies towards base.h have
* to be manually given in the Jmakefile.
*/
#define SimpleYaccInclude(base) @!\
base.h: base.c  @@\
 @if test -f y.tab.h; then \ @@\
  echo " $(MV) y.tab.h $@"; \ @@\
  $(MV) y.tab.h $@; \  @@\
 fi       @!\
       @!\
local_realclean::    @@\
 $(RM) base.h

/*
* ComplexYaccInclude:
* Declare that program will need an include file produced by
* the output of yacc on base.y, which typically produces a file
* named y.tab.h, which will
 be renamed as base.h.
* The difference with SimpleYaccInclude is the identifying process
* of the y.tab.h file where all 'yy' are renamed to prefix.
* The only problem is that the dependencies towards base.h have
* to be manually given in the Jmakefile.
```

```
*/
#define ComplexYaccInclude(base,prefix) @!\
base.h: base.c  @@\
 @if test -f y.tab.h; then \ @@\
  echo " $(SED) -e 's/yy\(.\)/prefix\1/g' < y.tab.h > base.h"; \ @@\
  $(SED) -e 's/yy\(.\)/prefix\1/g' < y.tab.h > base.h; \ @@\
  echo " $(RM) y.tab.h"; \ @@\
  $(RM) y.tab.h; \  @@\
 elif test -f base.h; then \ @@\
  echo " $(CP) base.h base.ht"; \ @@\
  $(CP) base.h base.ht; \ @@\
  echo " $(SED) -e 's/yy\(.\)/prefix\1/g' < base.ht > base.h"; \ @@\
  $(SED) -e 's/yy\(.\)/prefix\1/g' < base.ht > base.h; \ @@\
  echo " $(RM) base.ht"; \ @@\
  $(RM) base.ht; \  @@\
 fi       @!\
       @!\
local_realclean::    @@\
 $(RM) base.h


/*
* NormalYaccTarget:
* Declare a yacc base.y file which should produce a base.c and
* base.h file
 as derived from the output of yacc, to be used by
* the specified program.
*/
#define NormalYaccTarget(program,base) @!\
SimpleYaccTarget(program,base) @!\
SimpleYaccInclude(base)


/*
* IdentifiedYaccTarget:
* Declare a yacc base.y file which should produce a base.c and
* base.h file as derived from the output of yacc, to be used by
* the specified program. The specified prefix is used to remplace
* all the 'yy' in the generated file, for use when more than a
* single parser is needed in one executable.
*/
#define IdentifiedYaccTarget(program,base,prefix) @!\
ComplexYaccTarget(program,base,prefix) @!\
ComplexYaccInclude(base,prefix)


/*
* SimpleLexTarget:
```

```
* This declares a lex base.l file which is to be ran through
* lex to produce a base.c file.
*/
#define SimpleLexTarget(program,base) @!\
++SOURCES base.l @!\
++OBJECTS base.o @!\
|once _LexRule_     @!\
|rule:.l.c:      @!\
|rule: $(LEX) $(JLFLAGS) $<  @!\
|rule: $(MV) lex.yy.c $@  @!\
|rule:       @!\
-once       @!\
AddSuffix(.l)   @!\
program:
 base.c   @!\
     @!\
local_realclean::  @@\
 $(RM) base.c  @!\


/*
* IdentifiedLexTarget:
* This declares a lex base.l file which is to be ran through
* lex to produce a base.c file. The prefix is used to replace
* the 'yy', so that the lexical analyzer may be identified.
*/
#define IdentifiedLexTarget(program,base,prefix) @!\
++SOURCES base.l @!\
++OBJECTS base.o @!\
program: base.c   @!\
     @!\
base.c: base.l     @@\
 $(LEX) $(JLFLAGS) base.l @@\
 $(SED) -e 's/yy\(.\)/prefix\1/g' < lex.yy.c > base.c @@\
 $(RM) lex.yy.c    @!\
     @!\
local_realclean::  @@\
 $(RM) base.c  @!\


/*
* NormalLexDependTarget:
* Declare that program will need an include file produced by
* the output of lex on base.l, which typically produces a file
* named lex.yy.c which will be renamed as base.c. Besides, the
* lexical analyzer needs the file parser.h produced by running
* parser.y through yacc and renaming y.tab.h as parser.h.
*/
```

```
#define NormalLexDependTarget(program,base,parser)
 @!\
base.o: parser.h @!\
    @!\
SimpleLexTarget(program,base)


/*
* IdentifiedLexDependTarget:
* Declare that program will need an include file produced by
* the output of lex on base.l, which typically produces a file
* named lex.yy.c which will be renamed as base.c. Besides, the
* lexical analyzer needs the file parser.h produced by running
* parser.y through yacc and renaming y.tab.h as parser.h.
* The lexical analyzer is identified with the supplied prefix,
* which replaces the regular 'yy' prefix in the symbol names.
*/
#define IdentifiedLexDependTarget(program,base,parser,prefix) @!\
base.o: parser.h @!\
    @!\
IdentifiedLexTarget(program,base,prefix)


/*
* NormalParserTarget:
* Specify that program is using the lex/yacc combination to
* produce a parser. The lexic and parser parameters are the
* base name of the .l and .y file, respectively.
*/
#define NormalParserTarget(program,lexic,parser) @!\
NormalLexDependTarget(program,lexic,parser)
 @!\
NormalYaccTarget(program,parser)


/*
* IdentifiedParserTarget:
* Specify that program is using the lex/yacc combination to
* produce a parser. The lexic and parser parameters are the
* base name of the .l and .y file, respectively. The parser
* produced is identified via its prefix, which replaces all
* the normally supplied 'yy' prefix, hence making it possible
* to have multiple parsers in a single executable.
*/
#define IdentifiedParserTarget(program,lexic,parser,prefix) @!\
IdentifiedLexDependTarget(program,lexic,parser,prefix) @!\
IdentifiedYaccTarget(program,parser,prefix)
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/files/Jmake.rules
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_attribut.U,v $
?RCS: Revision 3.0.1.3  1995/01/30  14:33:45  ram
?RCS: patch49: test C program now includes <stdio.h> (WED)
?RCS:
?RCS: Revision 3.0.1.2  1995/01/11  15:25:47  ram
?RCS: patch45: fixed typo in the d_attribut variable (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:08:55  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_attribut: Myread Oldconfig cat cc ccflags rm Setvar contains
?MAKE: -pick add $@ %<
?S:d_attribut
 (d_attrib):
?S: This variable conditionally defines HASATTRIBUTE, which
?S: indicates the C compiler can check for function attributes,
?S: such as printf formats.
?S:.
?C:HASATTRIBUTE ~ %< (GNUC_ATTRIBUTE_CHECK):
?C: This symbol indicates the C compiler can check for function attributes,
?C: such as printf formats. This is normally only supported by GNU cc.
?C:.
?H:?%<:#$d_attribut HASATTRIBUTE  /**/
?H:?%<:#ifndef HASATTRIBUTE
?H:?%<:#define __attribute__(_arg_)
?H:?%<:#endif
?H:.
?W:%<:__attribute__
?LINT:set d_attribut
?LINT:known __attribute__
: Look for GNU-cc style attribute checking
```

```
echo " "
echo "Checking whether your compiler can handle __attribute__ ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
void croak (char* pat,...) __attribute__((format(printf,1,2),noreturn));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $contains 'warning' attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't fully support __attribute__."
  val="$undef"
 else
  echo
 "Your C compiler supports __attribute__."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
set d_attribut
eval $setvar
$rm -f attrib*
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_attribut.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Oldsym.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:06:58  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit follows the creation of the config.sh file. It adds some
?X: special symbols: defines from patchlevel.h file if any and CONFIG,
```

```
?X: which is set to true. Then, we try to keep all the new symbols that
?X: may come from a hint file or a previous config.sh file.
?X:
?MAKE:Oldsym:
 Config_sh Options test hint src sed sort uniq
?MAKE: -pick add $@ %<
?T:CONFIG sym tmp
?F:!UU
: add special variables
$test -f $src/patchlevel.h && \
awk '/^#define/ {printf "%s=%s\n",$2,$3}' $src/patchlevel.h >>config.sh
echo "CONFIG=true" >>config.sh

: propagate old symbols
if $test -f UU/config.sh; then
?X: Make sure each symbol is unique in oldconfig.sh
 <UU/config.sh $sort | $uniq >UU/oldconfig.sh
?X:
?X: All the symbols that appear twice come only from config.sh (hence the
?X: two config.sh in the command line). These symbols will be removed by
?X: the uniq -u command. The oldsyms file thus contains all the symbols
?X: that did not appear in the produced config.sh (Larry Wall).
?X:
?X: Do not touch the -u flag of uniq.  This means you too, Jarkko.
?X:
 $sed -n 's/^\([a-zA-Z_0-9]*\)=.*/\1/p' \
  config.sh config.sh UU/oldconfig.sh |\
  $sort | $uniq -u >UU/oldsyms
 set X `cat UU/oldsyms`
 shift
 case $# in
 0) ;;
 *)
  cat <<EOM
Hmm...You had some extra variables I don't know about...I'll
 try to keep 'em...
EOM
  echo ": Variables propagated from previous config.sh file." >>config.sh
  for sym in `cat UU/oldsyms`; do
   echo "    Propagating $hint variable "'$'"$sym..."
   eval 'tmp="$'"${sym}"'"'
   echo "$tmp" | \
    sed -e "s/'/'\''\''/g" -e "s/^/$sym='/" -e "s/$/'/" >>config.sh
  done
  ;;
 esac
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Oldsym.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: doublesize.U,v 3.0.1.1 1994/10/29 16:17:06 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: doublesize.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:17:06  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:06  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:doublesize: cat rm_try Myread Compile run i_stdlib
?MAKE: -pick add $@ %<
?S:doublesize:
?S: This variable contains the value of the DOUBLESIZE symbol, which
?S: indicates to the C program how many bytes there are in a double.
?S:.
?C:DOUBLESIZE:
?C: This
 symbol contains the size of a double, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define DOUBLESIZE $doublesize  /**/
?H:.
?F:!try
: check for length of double
echo " "
case "$doublesize" in
")
 echo "Checking to see how big your double precision numbers are..." >&4
 $cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
```

```
{
   printf("%d\n", (int)sizeof(double));
   exit(0);
}
EOCP
 set try
 if eval $compile_ok; then
  doublesize=`$run ./try`
  echo "Your double is $doublesize bytes long."
 else
  dflt='8'
  echo "(I can't seem to compile the test program.  Guessing...)"
  rp="What is the size of a double precision number (in bytes)?"
  . ./myread
  doublesize="$ans"
 fi
 ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/doublesize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Instruct.U,v 3.0.1.3 1997/02/28 15:02:55 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Instruct.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:02:55  ram
?RCS: patch61: logname / whoami sequence rewritten to use case
?RCS:
?RCS: Revision 3.0.1.2  1995/02/15  14:11:34  ram
?RCS: patch51: author name now appears at the end of the paragraph (WED)
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:12:05  ram
?RCS: patch45: now documents the & escape to turn -d on at the read prompt
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:04  ram
?RCS: Baseline for
```

```
 dist 3.0 netwide release.
?RCS:
?X:
?X: This unit spew out the directions that we want everyone to read.  I try to
?X: keep the first "pagefull" much less than a page since they don't know it
?X: isn't going to go shooting off the top of the screen, and we don't want
?X: to panic them yet.
?X:
?MAKE:Instruct: Myread Configdir Devel contains
?MAKE: -pick wipe $@ %<
?T:user needman firsttime
: general instructions
needman=true
firsttime=true
user=`(logname) 2>/dev/null`
case "$user" in
") user=`whoami 2>&1`;;
esac
if $contains "^$user\$" ../.config/instruct >/dev/null 2>&1; then
 firsttime=false
 echo " "
 rp='Would you like to see the instructions?'
 dflt=n
 . ./myread
 case "$ans" in
 [yY]*) ;;
 *) needman=false;;
 esac
fi
if $needman; then
 cat <<EOH

This installation shell script will examine your system and ask you questions
to determine how the <PACKAGENAME> package should be installed. If you get
stuck on a question, you may use a ! shell escape to start a subshell or
execute a
 command.  Many of the questions will have default answers in square
brackets; typing carriage return will give you the default.

On some of the questions which ask for file or directory names you are allowed
to use the ~name construct to specify the login directory belonging to "name",
even if you don't have a shell which knows about that.  Questions where this is
allowed will be marked "(~name ok)".

EOH
 rp="
 dflt='Type carriage return to continue'
 . ./myread
```

```
 cat <<'EOH'

The prompter used in this script allows you to use shell variables and
backticks in your answers.  You may use $1, $2, etc...  to refer to the words
in the default answer, as if the default line was a set of arguments given to a
script shell.  This means you may also use $* to repeat the whole default line,
so you do not have to re-type everything to add something to the default.

Every time there is a substitution, you will have to confirm.  If there is an
error (e.g. an unmatched backtick), the default answer
 will remain unchanged
and you will be prompted again.

If you are in a hurry, you may run 'Configure -d'.  This will bypass nearly all
the questions and use the computed defaults (or the previous answers if there
was already a config.sh file). Type 'Configure -h' for a list of options.
You may also start interactively and then answer '& -d' at any prompt to turn
on the non-interactive behaviour for the remainder of the execution.

EOH
 . ./myread
 cat <<EOH

Much effort has been expended to ensure that this shell script will run on any
Unix system.  If despite that it blows up on yours, your best bet is to edit
Configure and run it again.  If you can't run Configure for some reason,
you'll have to generate a config.sh file by hand.  Whatever problems you
have, let me (<MAINTLOC>) know how I blew it.

This installation script affects things in two ways:

1) it may do direct variable substitutions on some of the files included
  in this kit.
2) it builds a config.h file for inclusion in
 C programs.  You may edit
  any of these files as the need arises after running this script.

If you make a mistake on a question, there is no easy way to back up to it
currently.  The easiest thing to do is to edit config.sh and rerun all the SH
files.  Configure will offer to let you do this before it runs the SH files.

EOH
?X: In case they played with the prompter...
 dflt='Type carriage return to continue'
 . ./myread
 case "$firsttime" in
 true) echo $user >>../.config/instruct;;
 esac
```

```
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Instruct.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strftime: Inlibc
?MAKE: -pick add $@ %<
?S:d_strftime:
?S: This variable conditionally defines the HAS_STRFTIME symbol, which
?S: indicates to the C program that the strftime() routine is available.
?S:.
?C:HAS_STRFTIME:
?C: This symbol, if defined, indicates that the strftime routine is
?C: available to do time formatting.
?C:.
?H:#$d_strftime HAS_STRFTIME  /**/
?H:.
?LINT:set d_strftime
: see if strftime exists
set strftime d_strftime
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strftime.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: MailList.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
```

```
?RCS: $Log: MailList.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:01:49  ram
?RCS: patch16: created
?RCS:
?RCS:
?X:
?X: This unit offers the user the option of subscribing to the mailing
?X: list. To force inclusion of this unit, you must add it's name to the
?X: dependancies on the MAKE line in your private copy of End.U.
?X: The address of the mailing list server must be set via a "list_request=..."
?X:
 entry in the .package file. This is usually done by running packinit and
?X: answering the proper questions.
?X:
?MAKE:MailList: cat mailer package Myread cf_name cf_email
?MAKE: -pick wipe $@ %<
?T:list_request list_sub list_unsub list_name
?X:
?X: The cf_name dependency is used through list_sub when the mailing list
?X: manager happens to be listserv, whereas cf_email is used whith majordomo
?X: or when the mailing list request address is scanned by a human. Since
?X: they do not appear within the unit itself, we need a lint hint.
?X:
?LINT:use cf_name cf_email
: offer to join the mailing list
list_request='<$list_request>'
list_sub="<$list_sub>"
list_unsub="<$list_unsub>"
list_name="<$list_name>"
$cat <<EOM

There is a mailing list for discussion about $package and related issues.
This is the preferred place to ask questions about the program and discuss
modifications and additions with the author and other users.  If you are able
to send mail to the Internet, you
 are encouraged to subscribe.  You need only
ever subscribe once, and you can unsubscribe automatically at any time in the
future.  If you have already subscribed and you wish to unsubscribe now, you
may do so by answering "unsubscribe".  Answer "subscribe" to subscribe to the
list.

EOM
rp="Subscribe to or unsubscribe from the $list_name mailing list?"
dflt=neither
. ./myread
case "$ans" in
[sS]*) $cat <<EOM
```

```
You will be sent a message from the list server to let you know when your
subscription has been successful and telling you how to submit articles and
how to unsubscribe again when necessary. You may also unsubscribe by running
this script again and asking it to do so for you.

EOM
 echo "Sending mail to subscribe you to the $list_name list..." >&4
 $mailer $list_request <<EOM >/dev/null 2>&1
Precedence: junk
To: $list_request

$list_sub
EOM
 ;;
[uU]*) echo "Sending mail to unsubscribe you from the $list_name list..." >&4
 $mailer $list_request <<EOM >/dev/null 2>&1
Precedence: junk
To:
 $list_request

$list_unsub
EOM
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/MailList.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strxfrm_l.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_strxfrm_l.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:12:04  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_strxfrm_l: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_strxfrm_l:
?S: This variable conditionally defines HAS_STRXFRM_L if strxfrm_l() is
?S: available to transform strings.
?S:.
?C:HAS_STRXFRM_L:
?C: This symbol, if defined, indicates that the strxfrm_l() routine is
?C: available
 to transform strings.
?C:.
?H:#$d_strxfrm_l HAS_STRXFRM_L /**/
?H:.
?LINT:set d_strxfrm_l
: see if strxfrm_l exists
set strxfrm_l d_strxfrm_l
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strxfrm_l.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: manfmt.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: manfmt.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  16:11:57  ram
?RCS: patch61: don't ask for AFS when they choose to not install pages
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:16:52  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:39:20  ram
?RCS: patch49: new installmanfmt and AFS-lookup for formatted man pages
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS:
 Revision 3.0.1.2  1994/08/29  16:30:31  ram
?RCS: patch32: now uses installation prefix for default setting
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:09:22  ram
?RCS: patch10: allows for L1 man page extension (WAD)
```

```
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:manfmt manfmtexp installmanfmt: Getfile Loc Oldconfig cat manext \
 spackage Prefixit prefixexp Prefixup afs test
?MAKE: -pick add $@ %<
?Y:TOP
?S:manfmt:
?S: This variable contains the name of the directory in which formatted
?S: manual pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command. Note
?S: that you may have to do ~name substitution. Use manfmtexp otherwise.
?S:.
?S:manfmtexp:
?S: This is the same as the manfmt variable, but is filename expanded
?S: at configuration time, for programs not willing to deal with it at
?S: run-time.
?S:.
?S:installmanfmt:
?S: This variable is really
 the same as manfmtexp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: mansrcexp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change manext
?T:lookpath
: determine where manual pages go
set manfmt manfmt
eval $prefixit
$cat <<EOM

$spackage has pre-formatted manual pages.  If you don't want these installed,
answer 'none' to the next question.

EOM
case "$manfmt" in
")
 lookpath="$prefixexp/catman/man1 $prefixexp/man/cat1"
 lookpath="$lookpath $prefixexp/catman/u_man/man1"
 lookpath="$lookpath $prefixexp/catman/l_man/man1"
 lookpath="$lookpath $prefixexp/catman/cat1 /usr/catman/local/man1"
 lookpath="$lookpath /usr/catman/manl /usr/man/cat1"
 lookpath="$lookpath /usr/catman/mann /usr/catman/l_man/man1"
 lookpath="$lookpath /usr/catman/u_man/man1 /usr/catman/man1"
 dflt=`./loc . none $lookpath`
 set dflt
```

```
 eval $prefixup
 ;;
*)  dflt="$manfmt"
 ;;
esac
fn=dn~
rp='Where
 do pre-formatted manual pages go?'
. ./getfile
if test "X$manfmtexp" != "X$ansexp"; then
 installmanfmt=''
fi
manfmt="$ans"
manfmtexp="$ansexp"
if $afs && $test "$manfmt"; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
manual pages reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installmanfmt" in
 '') dflt=`echo $manfmtexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installmanfmt";;
 esac
 fn=de~
 rp='Where will pre-formatted man pages be installed?'
 . ./getfile
 installmanfmt="$ans"
else
 installmanfmt="$manfmtexp"
fi

case "$manfmt" in
'') manext='0';;
*l) manext=l;;
*n) manext=n;;
*o) manext=l;;
*p) manext=n;;
*C) manext=C;;
*L) manext=L;;
*L1) manext=L1;;
*) manext=1;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/dist/U/manfmt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtoll: Inlibc d_longlong Compile cat run
?MAKE: -pick add $@ %<
?S:d_strtoll:
?S: This variable conditionally defines the HAS_STRTOLL symbol, which
?S: indicates to the C program that the strtoll() routine is available.
?S:.
?C:HAS_STRTOLL:
?C: This symbol, if defined, indicates that the strtoll routine is
?C: available to convert strings to long longs.
?C:.
?H:#$d_strtoll HAS_STRTOLL  /**/
?H:.
?T:yyy
?F:!try
: see if strtoll exists
set strtoll d_strtoll
eval $inlibc

case "$d_longlong-$d_strtoll" in
"$define-$define")
 $cat <<EOM
Checking whether your strtoll() works okay...
EOM
 $cat >try.c <<'EOCP'
#include <errno.h>
#ifdef __hpux
#define strtoll __strtoll
#endif
#ifdef __EMX__
#define strtoll
 _strtoll
#endif
#include <stdio.h>
#include <stdlib.h>
static int bad = 0;
void check(const char *s, long long ell, int een) {
 long long gll;
 errno = 0;
```

```
 gll = strtoll(s, 0, 10);
 if (!((gll == ell) && (errno == een)))
  bad++;
}
int main() {
 check(" 1",                          1LL, 0);
 check(" 0",                          0LL, 0);
 check("-1",                         -1LL, 0);
 check("-9223372036854775808", -9223372036854775808LL, 0);
 check("-9223372036854775808", -9223372036854775808LL, 0);
 check(" 9223372036854775807",  9223372036854775807LL, 0);
 check("-9223372036854775808", -9223372036854775808LL, 0);
 check(" 9223372036854775808",  9223372036854775807LL, ERANGE);
 check("-9223372036854775809", -9223372036854775808LL, ERANGE);
 if (!bad)
  printf("ok\n");
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  ok) echo "Your strtoll() seems to be working okay." ;;
  *) cat <<EOM >&4
Your strtoll() doesn't seem
 to be working okay.
EOM
     d_strtoll="$undef"
     ;;
  esac
 else
  echo "(I can't seem to compile the test program--assuming it doesn't)"
  d_strtoll="$undef"
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strtoll.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_ldbl_dig: Myread contains cat rm Setvar \
 cppstdin cppflags cppminus
?MAKE: -pick add $@ %<
?S:d_ldbl_dig:
?S: This variable conditionally defines d_ldbl_dig if this system's
?S: header files provide LDBL_DIG, which is the number of significant
?S: digits in a long double precision number.
?S:.
?C:HAS_LDBL_DIG:
?C: This symbol, if defined, indicates that this system's <float.h>
?C: or <limits.h> defines the symbol LDBL_DIG, which is the number
?C: of significant digits in a long double precision number. Unlike
?C: for
 DBL_DIG, there's no good guess for LDBL_DIG if it is undefined.
?C:.
?H:#$d_ldbl_dig HAS_LDBL_DIG /* */
?H:.
?F:!ldbl_dig.c
?LINT:set d_ldbl_dig
: See if number of significant digits in a double precision number is known
echo " "
$cat >ldbl_dig.c <<EOM
#include <limits.h>
#include <float.h>
#ifdef LDBL_DIG
printf("Contains LDBL_DIG");
#endif
EOM
$cppstdin $cppflags $cppminus < ldbl_dig.c >ldbl_dig.E 2>/dev/null
if $contains 'LDBL_DIG' ldbl_dig.E >/dev/null 2>&1; then
 echo "LDBL_DIG found." >&4
 val="$define"
else
 echo "LDBL_DIG NOT found." >&4
 val="$undef"
fi
$rm -f ldbl_dig.?
set d_ldbl_dig
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_ldbl_dig.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: man3dir.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:10:34  ram
?RCS: patch61: created
?RCS:
?X:
?X: This was originally specific to perl5.  Since perl5 has man pages that
?X: go in both man1/ and man3/ directories, we need both man1dir
?X: and man3dir.  This unit is basically dist's mansrc.U with
?X: man3 used instead of man everywhere.
?X: I then added various tests because perl5 has *lots* of man3
?X: pages with long file names. -- ADO
?X:
?MAKE:man3dir
 man3direxp man3ext installman3dir: afs cat nroff Loc Oldconfig \
 sed man1dir spackage package Getfile prefix Prefixit Prefixup \
 d_flexfnam privlib Myread
?MAKE: -pick add $@ %<
?Y:TOP
?S:man3dir:
?S: This variable contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?S:man3direxp:
?S: This variable is the same as the man3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?S:installman3dir:
?S: This variable is really the same as man3direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man3direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:man3ext:
```

```
?S: This variable contains the extension that the manual
 page should
?S: have: one of 'n', 'l', or '3'.  The Makefile must supply the '.'.
?S: See man3dir.
?S:.
: determine where library module manual pages go
set man3dir man3dir none
eval $prefixit
$cat <<EOM

$spackage has manual pages for many of the library modules.
EOM

case "$nroff" in
nroff)
 $cat <<'EOM'
However, you don't have nroff, so they're probably useless to you.
EOM
 case "$man3dir" in
 ") man3dir="none";;
 esac;;
esac

case "$d_flexfnam" in
undef)
 $cat <<'EOM'
However, your system can't handle the long file names like File::Basename.3.
EOM
 case "$man3dir" in
 ") man3dir="none";;
 esac;;
esac

echo "If you don't want the manual sources installed, answer 'none'."
?X: We dont use /usr/local/man/man3 because some man programs will
?X: only show the /usr/local/man/man3 contents, and not the system ones,
?X: thus man less will show the perl module less.pm, but not the system
?X: less command.  We might also conflict with TCL man pages.
?X: However, something like /opt/perl/man/man3
 is fine.
case "$man3dir" in
") case "$prefix" in
 *$package*) dflt=`echo $man1dir |
   $sed -e 's/man1/man3/g' -e 's/man\.1/man\.3/g'` ;;
 *) dflt="$privlib/man/man3" ;;
 esac
 ;;
' ') dflt=none;;
```

```
*) dflt="$man3dir" ;;
esac
echo " "

fn=dn+~
rp="Where do the $package library man pages (source) go?"
. ./getfile
if test "X$man3direxp" != "X$ansexp"; then
 installman3dir=''
fi

man3dir="$ans"
man3direxp="$ansexp"
case "$man3dir" in
'') man3dir=' '
 installman3dir='';;
esac
if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
manual pages reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installman3dir" in
 '') dflt=`echo $man3direxp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installman3dir";;
 esac
 fn=de~
 rp='Where will man pages be installed?'
 . ./getfile
 installman3dir="$ans"
else
 installman3dir="$man3direxp"
fi

: What suffix
 to use on installed man pages

case "$man3dir" in
' ')
 man3ext='0'
 ;;
*)
 rp="What suffix should be used for the $package library man pages?"
 case "$man3ext" in
 '') case "$man3dir" in
```

```
  *3)  dflt=3 ;;
  *3p) dflt=3p ;;
  *3pm) dflt=3pm ;;
  *l) dflt=l;;
  *n) dflt=n;;
  *o) dflt=o;;
  *p) dflt=p;;
  *C) dflt=C;;
  *L) dflt=L;;
  *L3) dflt=L3;;
  *) dflt=3;;
  esac
  ;;
 *) dflt="$man3ext";;
 esac
 . ./myread
 man3ext="$ans"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/man3dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_stdio_stream_array stdio_stream_array: run \
 Compile cat rm_try Oldconfig Myread Setvar
?MAKE: -pick add $@ %<
?S:d_stdio_stream_array:
?S: This variable tells whether there is an array holding
?S: the stdio streams.
?S:.
?S:stdio_stream_array:
?S: This variable tells the name of the array holding the stdio streams.
?S: Usual values include _iob, __iob, and __sF.
?S:.
?C:HAS_STDIO_STREAM_ARRAY:
?C: This symbol, if defined, tells that there is an array
```

```
?C: holding the stdio streams.
?C:.
?C:STDIO_STREAM_ARRAY:
?C: This
 symbol tells the name of the array holding the stdio streams.
?C: Usual values include _iob, __iob, and __sF.
?C:.
?H:#$d_stdio_stream_array HAS_STDIO_STREAM_ARRAY /**/
?H:?%<:#ifdef HAS_STDIO_STREAM_ARRAY
?H:?%<:#define STDIO_STREAM_ARRAY $stdio_stream_array
?H:?%<:#endif
?H:.
?T:s
?F:!try
: Check stream access
$cat >&4 <<EOM
Checking how to access stdio streams by file descriptor number...
EOM
case "$stdio_stream_array" in
") $cat >try.c <<EOCP
#include <stdio.h>
int main() {
 if (&STDIO_STREAM_ARRAY[fileno(stdin)] == stdin)
   printf("yes\n");
}
EOCP
 for s in _iob __iob __sF
 do
        set try -DSTDIO_STREAM_ARRAY=$s
  if eval $compile; then
   case "`$run ./try`" in
   yes) stdio_stream_array=$s; break ;;
   esac
  fi
 done
 $rm_try
esac
case "$stdio_stream_array" in
") $cat >&4 <<EOM
I can't figure out how to access stdio streams by file descriptor number.
EOM
 d_stdio_stream_array="$undef"
 ;;
*) $cat >&4 <<EOM
You can access stdio streams by file descriptor number
 by the $stdio_stream_array array.
EOM
 d_stdio_stream_array="$define"
```

```
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/stdio_streams.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethbyad.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_gethbyaddr: Inlibc
?MAKE: -pick add $@ %<
?S:d_gethbyaddr:
?S: This variable conditionally defines the HAS_GETHOSTBYADDR symbol, which
?S: indicates to the C program that the gethostbyaddr() routine is available
?S: to look up hosts by their IP addresses.
?S:.
?C:HAS_GETHOSTBYADDR:
?C: This symbol, if defined, indicates that the gethostbyaddr() routine is
?C: available to look up hosts by their IP addresses.
?C:.
?H:#$d_gethbyaddr HAS_GETHOSTBYADDR  /**/
?H:.
?LINT:set d_gethbyaddr
: see if gethostbyaddr exists
set gethostbyaddr d_gethbyaddr
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_gethbyad.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_systimeb.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: i_systimeb.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:37  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit looks wether <sys/timeb.h> should be included
?X: or not when using ftime() (for struct timeb definition).
?X:
?X: Force looking for <sys/time.h> for struct timeb.
?X:INC: i_systime
?MAKE:i_systimeb: test contains Loc Setvar Findhdr
?MAKE: -pick add $@ %<
?S:i_systimeb:
?S: This variable conditionally defines I_SYS_TIMEB,
 which indicates
?S: to the C program that it should include <sys/timeb.h>.
?S:.
?C:I_SYS_TIMEB (I_SYSTIMEB):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/timeb.h>, in order to define struct timeb (some systems
?C: define this in <sys/time.h>). This is useful when using ftime().
?C: You should include <sys/time.h> if I_SYS_TIMEB is not defined,
?C: nor is I_SYS_TIME.
?C:.
?H:#$i_systimeb I_SYS_TIMEB  /**/
?H:.
?T:xxx
?LINT:set i_systimeb
: see where struct timeb is defined
echo " "
xxx=`./findhdr sys/timeb.h`
if $test "$xxx"; then
 if $contains 'struct timeb' $xxx >/dev/null 2>&1; then
  val="$define"
  echo "You have struct timeb defined in <sys/timeb.h>." >&4
 else
  val="$undef"
  echo "Assuming struct timeb is defined in <sys/time.h>." >&4
 fi
else
 val="$undef"
echo "No <sys/timeb.h> -- Assuming struct timeb is defined in <sys/time.h>." >&4
fi
set i_systimeb
eval $setvar

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
```

5.36.0/dist/U/i_systimeb.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_itimer.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_itimer.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:25  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_itimer: Inlibc
?MAKE: -pick add $@ %<
?S:d_itimer:
?S: This variable conditionally defines the HAS_ITIMER symbol, which
?S: indicates that the setitimer() routine exists.  The setitimer()
?S: routine supports sub-second accuracy for one real-time and two
?S: cpu clocks.
?S:.
?C:HAS_ITIMER (ITIMER):
?C: This symbol, if defined, indicates
 that the setitimer() routine exists.
?C:.
?H:#$d_itimer HAS_ITIMER /**/
?H:.
?LINT:set d_itimer
: see if setitimer exists
set setitimer d_itimer
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_itimer.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: nblock_io.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:17:14  ram
?RCS: patch61: simplify here document for shells that can't handle them well
?RCS: patch61: force use of "startsh" at the head of the generated script
?RCS: patch61: added new files to the ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  14:13:22  ram
?RCS: patch56: created
?RCS:
?X:
?X: Simplify here document for shells that can't handle them well.
?X: (Problem reported on FreeBSD; it's unclear if this helps.)  --AD
?X:
?MAKE:o_nonblock
 eagain rd_nodata d_eofnblk: cat rm_try +cc +ccflags +ldflags \
 d_open3 h_sysfile h_fcntl signal_t hint Oldconfig Setvar startsh Warn
?MAKE: -pick add $@ %<
?S:o_nonblock:
?S: This variable bears the symbol value to be used during open() or fcntl()
?S: to turn on non-blocking I/O for a file descriptor. If you wish to switch
?S: between blocking and non-blocking, you may try ioctl(FIOSNBIO) instead,
?S: but that is only supported by some devices.
?S:.
?S:eagain:
?S: This variable bears the symbolic errno code set by read() when no
?S: data is present on the file and non-blocking I/O was enabled (otherwise,
?S: read() blocks naturally).
?S:.
?S:rd_nodata:
?S: This variable holds the return code from read() when no data is
?S: present. It should be -1, but some systems return 0 when O_NDELAY is
?S: used, which is a shame because you cannot make the difference between
?S: no data and an EOF.. Sigh!
?S:.
?S:d_eofnblk:
?S: This variable conditionally defines EOF_NONBLOCK
 if EOF can be seen
?S: when reading from a non-blocking I/O source.
?S:.
?C:VAL_O_NONBLOCK:
?C: This symbol is to be used during open() or fcntl(F_SETFL) to turn on
?C: non-blocking I/O for the file descriptor. Note that there is no way
?C: back, i.e. you cannot turn it blocking again this way. If you wish to
?C: alternatively switch between blocking and non-blocking, use the
?C: ioctl(FIOSNBIO) call instead, but that is not supported by all devices.
```

```
?C:.
?C:VAL_EAGAIN:
?C: This symbol holds the errno error code set by read() when no data was
?C: present on the non-blocking file descriptor.
?C:.
?C:RD_NODATA:
?C: This symbol holds the return code from read() when no data is present
?C: on the non-blocking file descriptor. Be careful! If EOF_NONBLOCK is
?C: not defined, then you can't distinguish between no data and EOF by
?C: issuing a read(). You'll have to find another way to tell for sure!
?C:.
?C:EOF_NONBLOCK:
?C: This symbol, if defined, indicates to the C program that a read() on
?C: a
 non-blocking file descriptor will return 0 on EOF, and not the value
?C: held in RD_NODATA (-1 usually, in that case!).
?C:.
?H:#define VAL_O_NONBLOCK $o_nonblock
?H:#define VAL_EAGAIN $eagain
?H:#define RD_NODATA $rd_nodata
?H:#$d_eofnblk EOF_NONBLOCK
?H:.
?F:!try !try.out !try.ret !try.err !mtry
?T:status
?LINT:use d_open3
: check for non-blocking I/O stuff
case "$h_sysfile" in
true) echo "#include <sys/file.h>" > head.c;;
*)
 case "$h_fcntl" in
 true) echo "#include <fcntl.h>" > head.c;;
 *) echo "#include <sys/fcntl.h>" > head.c;;
 esac
 ;;
esac
echo " "
echo "Figuring out the flag used by open() for non-blocking I/O..." >&4
case "$o_nonblock" in
")
 $cat head.c > try.c
 $cat >>try.c <<'EOCP'
int main() {
#ifdef O_NONBLOCK
 printf("O_NONBLOCK\n");
 exit(0);
#endif
#ifdef O_NDELAY
 printf("O_NDELAY\n");
```

```
 exit(0);
#endif
?X: Stevens "Advanced Programming in the UNIX Environment" page 364 mentions
?X: the FNDELAY symbol, used in 4.33BSD (source: Paul Marquess).
#ifdef FNDELAY
 printf("FNDELAY\n");
 exit(0);
#endif
 exit(0);
}
EOCP
 if
 $cc $ccflags $ldflags -o try try.c >/dev/null 2>&1; then
  o_nonblock=`./try`
  case "$o_nonblock" in
  ") echo "I can't figure it out, assuming O_NONBLOCK will do.";;
  *) echo "Seems like we can use $o_nonblock.";;
  esac
 else
  echo "(I can't compile the test program; pray O_NONBLOCK is right!)"
 fi
 ;;
*) echo "Using $hint value $o_nonblock.";;
esac
$rm_try

echo " "
echo "Let's see what value errno gets from read() on a $o_nonblock file..." >&4
case "$eagain" in
")
 $cat head.c > try.c
 $cat >>try.c <<EOCP
#include <errno.h>
#include <sys/types.h>
#include <signal.h>
#define MY_O_NONBLOCK $o_nonblock
extern int errno;
$signal_t blech(x) int x; { exit(3); }
EOCP
 $cat >> try.c <<'EOCP'
int main()
{
 int pd[2];
 int pu[2];
 char buf[1];
 char string[100];

 pipe(pd); /* Down: child -> parent */
```

```
 pipe(pu); /* Up: parent -> child */
 if (0 != fork()) {
  int ret;
  close(pd[1]); /* Parent reads from pd[0] */
  close(pu[0]); /*
 Parent writes (blocking) to pu[1] */
  if (-1 == fcntl(pd[0], F_SETFL, MY_O_NONBLOCK))
   exit(1);
  signal(SIGALRM, blech);
  alarm(5);
  if ((ret = read(pd[0], buf, 1)) > 0) /* Nothing to read! */
   exit(2);
  sprintf(string, "%d\n", ret);
  write(2, string, strlen(string));
  alarm(0);
#ifdef EAGAIN
  if (errno == EAGAIN) {
   printf("EAGAIN\n");
   goto ok;
  }
#endif
#ifdef EWOULDBLOCK
  if (errno == EWOULDBLOCK)
   printf("EWOULDBLOCK\n");
#endif
 ok:
  write(pu[1], buf, 1); /* Unblocks child, tell it to close our pipe */
  sleep(2);    /* Give it time to close our pipe */
  alarm(5);
  ret = read(pd[0], buf, 1); /* Should read EOF */
  alarm(0);
  sprintf(string, "%d\n", ret);
  write(3, string, strlen(string));
  exit(0);
 }

 close(pd[0]);   /* We write to pd[1] */
 close(pu[1]);   /* We read from pu[0] */
 read(pu[0], buf, 1); /* Wait for parent to signal us we may continue */
 close(pd[1]);   /* Pipe pd is now fully closed! */
 exit(0);    /* Bye bye, thank you for playing!
 */
}
EOCP
 if $cc $ccflags $ldflags -o try try.c >/dev/null 2>&1; then
?X: Use script to avoid the possible 'alarm call' message
  echo "$startsh" >mtry
  echo "./try >try.out 2>try.ret 3>try.err || exit 4" >>mtry
```

```
 chmod +x mtry
 ./mtry >/dev/null 2>&1
 case $? in
 0) eagain=`$cat try.out`;;
 1) echo "Could not perform non-blocking setting!";;
 2) echo "I did a successful read() for something that was not there!";;
 3) echo "Hmm... non-blocking I/O does not seem to be working!";;
 *) echo "Something terribly wrong happened during testing.";;
 esac
 rd_nodata=`$cat try.ret`
 echo "A read() system call with no data present returns $rd_nodata."
 case "$rd_nodata" in
 0|-1) ;;
 *)
  echo "(That's peculiar, fixing that to be -1.)"
  rd_nodata=-1
  ;;
 esac
 case "$eagain" in
 ")
  echo "Forcing errno EAGAIN on read() with no data available."
  eagain=EAGAIN
  ;;
 *)
  echo "Your read() sets errno to $eagain when no data is available."
  ;;
 esac
 status=`$cat
try.err`
 case "$status" in
 0) echo "And it correctly returns 0 to signal EOF.";;
 -1) echo "But it also returns -1 to signal EOF, so be careful!";;
 *) echo "However, your read() returns '$status' on EOF??";;
 esac
 val="$define"
 if test "$status" = "$rd_nodata"; then
  ./warn "your read() can't distinguish between EOF and no data!"
  val="$undef"
 fi
else
 echo "I can't compile the test program--assuming errno EAGAIN will do."
 eagain=EAGAIN
fi
set d_eofnblk
eval $setvar
;;
*)
echo "Using $hint value $eagain."
```

```
 echo "Your read() returns $rd_nodata when no data is present."
 case "$d_eofnblk" in
 "$define") echo "And you can see EOF because read() returns 0.";;
 "$undef") echo "But you can't see EOF status from read() returned value.";;
 *)
?X: Should not happen, but if it does, assume the worst!
  echo "(Assuming you can't see EOF status from read anyway.)"
  d_eofnblk=$undef
  ;;
 esac
 ;;
esac
$rm_try head.c mtry
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/nblock_io.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_passwd.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_passwd.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:37:21  ram
?RCS: patch61: useless unit dropped.
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:09:51  ram
?RCS: patch32: created by ADO
?RCS:
?X:
?X: Useless unit dropped.
?X:
?LINT:empty
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_passwd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: newslib.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: newslib.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:23  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:newslib newslibexp: test inews Oldconfig Getfile
?MAKE: -pick add $@ %<
?S:newslib:
?S: This variable contains the eventual value of the NEWSLIB symbol,
?S: which holds the name of the directory serving as the news library.
?S: It may have a ~ on the front.  See newslibexp for expanded version.
?S:.
?S:newslibexp:
?S: This variable contains
 the ~ expanded name of the news library
?S: directory.  See newslib.
?S:.
?C:NEWSLIB:
?C: This symbol contains the name of the directory serving as the news
?C: library.  The program must be prepared to do ~ expansion on it.
?C:.
?C:NEWSLIB_EXP:
?C: This symbol is the ~ expanded version of NEWSLIB, for programs that
?C: do not wish to deal with it at run-time.
?C:.
?H:#define NEWSLIB "$newslib"  /**/
?H:#define NEWSLIB_EXP "$newslibexp" /**/
?H:.
?LINT:change inews
: figure out news library
case "$newslib" in
")
 dflt=/usr/lib/news
 ;;
*)  dflt=$newslib ;;
esac
echo " "
fn=d~
rp='Where is your news library?'
```

```
. ./getfile
newslib="$ans"
newslibexp="$ansexp"
if $test -f $newslibexp/inews; then
 echo "Aha!  Inews is really in $newslibexp!  Maybe this is 2.10.2..." >&4
 case "$inews" in
 inews)
  : null
  ;;
 *) echo "(Make sure $inews isn't an old version.)";;
 esac
 inews=$newslibexp/inews
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/newslib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Config_sh.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  14:57:53  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.2  1995/01/11  14:53:31  ram
?RCS: patch45: moved path stripping from d_portable.U to end of Configure
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:50:37  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit ends up producing the config.sh
 script, which contains all the
?X: definitions figured out by Configure.  The add.Config_sh command knows
?X: which variables need to be remembered.  It also adds the EOT (ends the
?X: here document redirection with variable substitution).
```

```
?X:
?MAKE:Config_sh: cf_time cf_by test spitshell startsh myuname Myread \
 End Obsol_sh Loc +d_portable package src cat sed
?MAKE: -pick add.Config_sh $@ %<
?MAKE: -pick add $@ ./Obsol_sh
?MAKE: -pick close.Config_sh $@ %<
?F:!config.over !config.arch
?T:file sfile xsed
?LINT:unclosed EOT
: back to where it started
if test -d ../UU; then
 cd ..
fi

: configuration may be unconditionally patched via a 'config.arch' file
if $test -f config.arch; then
 echo "I see a config.arch file, loading it." >&4
 . ./config.arch
fi

: configuration may be patched via a 'config.over' file
if $test -f config.over; then
 echo " "
 dflt=y
 rp='I see a config.over file.  Do you wish to load it?'
 . UU/myread
 case "$ans" in
 n*) echo "OK, I'll ignore it.";;
 *) . ./config.over
  echo
 "Configuration override changes have been loaded."
  ;;
 esac
fi

@if d_portable
: in case they want portability, strip down executable paths
?X:
?X: Strip down paths in located executables. For each file, e.g. vi, there
?X: is a $vi variable whose value is for instance '/usr/bin/vi'. By resetting
?X: $vi to 'vi', we rely on the PATH variable to locate the executable...
?X: In order to allow vi='/usr/bin/nvi' which will strip down to vi='nvi',
?X: we can't just say 'eval $file="\$file"', we have to recourse to sed.
?X: We don't use basename since it is less portable than sed.
?X:
case "$d_portable" in
"$define")
 echo " "
```

```
 echo "Stripping down executable paths..." >&4
 xsed=$sed
 for file in $loclist $trylist; do
  eval sfile="\$$file"
  sfile=`echo $sfile | $xsed -e 's,.*/\(.*\),\1,'`
  eval $file="$sfile"
 done
 ;;
esac

@end
: create config.sh file
echo " "
echo "Creating config.sh..." >&4
$spitshell <<EOT >config.sh
$startsh
#
# This file was produced by running the
 Configure script. It holds all the
# definitions figured out by Configure. Should you modify one of these values,
# do not forget to propagate your changes by running "Configure -der". You may
# instead choose to run each of the .SH files by yourself, or "Configure -S".
#

# Package name      : $package
# Source directory  : $src
# Configuration time: $cf_time
# Configured by     : $cf_by
# Target system     : $myuname

EOT
?X: Command line options are saved by the Options.U unit in the
?X: temporary file UU/cmdline.opt
$test -f UU/cmdline.opt && $cat UU/cmdline.opt >> config.sh
$spitshell <<EOT >>config.sh
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Config_sh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_localtime_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS: Copyright (c) 2006,2007 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
```

```
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_localtime_r d_localtime_r_needs_tzset localtime_r_proto: Inlibc \
 cat run Protochk Hasproto i_systypes usethreads i_time i_systime \
 rm_try Compile extern_C i_stdlib i_unistd i_malloc
?MAKE: -pick add $@ %<
?S:d_localtime_r:
?S: This variable conditionally defines the HAS_LOCALTIME_R symbol,
?S: which indicates to the C program that the localtime_r()
?S: routine is available.
?S:.
?S:d_localtime_r_needs_tzset:
?S: This variable conditionally defines the LOCALTIME_R_NEEDS_TZSET
?S: symbol, which makes us call tzset before localtime_r()
?S:.
?S:localtime_r_proto:
?S: This
 variable encodes the prototype of localtime_r.
?S: It is zero if d_localtime_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_localtime_r
?S: is defined.
?S:.
?C:HAS_LOCALTIME_R:
?C: This symbol, if defined, indicates that the localtime_r routine
?C: is available to localtime re-entrantly.
?C:.
?C:LOCALTIME_R_NEEDS_TZSET:
?C: Many libc's localtime_r implementations do not call tzset,
?C: making them differ from localtime(), and making timezone
?C: changes using \$ENV{TZ} without explicitly calling tzset
?C: impossible. This symbol makes us call tzset before localtime_r
?C:.
?H:?%<:#$d_localtime_r_needs_tzset LOCALTIME_R_NEEDS_TZSET /**/
?H:?%<:#ifdef LOCALTIME_R_NEEDS_TZSET
?H:?%<:#define L_R_TZSET tzset(),
?H:?%<:#else
?H:?%<:#define L_R_TZSET
?H:?%<:#endif
?H:.
?W:%<:L_R_TZSET
?C:L_R_TZSET:
?C: If localtime_r() needs tzset, it is defined in this define
?C:.
?C:LOCALTIME_R_PROTO:
?C: This symbol encodes the prototype of localtime_r.
?C: It is
 zero if d_localtime_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_localtime_r
```

```
?C: is defined.
?C:.
?H:#$d_localtime_r HAS_LOCALTIME_R /**/
?H:#define LOCALTIME_R_PROTO $localtime_r_proto /**/
?H:.
?T:try hdrs d_localtime_r_proto
?F:!try
: see if localtime_r exists
set localtime_r d_localtime_r
eval $inlibc
case "$d_localtime_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_time time.h $i_systime sys/time.h"
 case "$d_localtime_r_proto:$usethreads" in
 ":define") d_localtime_r_proto=define
  set d_localtime_r_proto localtime_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_localtime_r_proto" in
 define)
 case "$localtime_r_proto" in
 "|0) try='struct tm* localtime_r(const time_t*, struct tm*);'
 ./protochk "$extern_C $try" $hdrs && localtime_r_proto=S_TS ;;
 esac
 case "$localtime_r_proto" in
 "|0) try='int localtime_r(const time_t*, struct tm*);'
 ./protochk "$extern_C $try" $hdrs && localtime_r_proto=I_TS ;;
 esac
 case "$localtime_r_proto"
 in
 "|0) d_localtime_r=undef
  localtime_r_proto=0
  echo "Disabling localtime_r, cannot determine prototype." >&4 ;;
 * ) case "$localtime_r_proto" in
  REENTRANT_PROTO*) ;;
  *) localtime_r_proto="REENTRANT_PROTO_$localtime_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "localtime_r has no prototype, not using it." >&4 ;;
  esac
  d_localtime_r=undef
  localtime_r_proto=0
  ;;
 esac
```

```
 ;;
*) localtime_r_proto=0
 ;;
esac

: see if localtime_r calls tzset
case "$localtime_r_proto" in
REENTRANT_PROTO*)
 $cat >try.c <<EOCP
/*  Does our libc's localtime_r call tzset ?
*  return 0 if so, 1 otherwise.
*/
#$i_systypes I_SYS_TYPES
#$i_unistd I_UNISTD
#$i_time I_TIME
#$i_stdlib I_STDLIB
#$i_malloc I_MALLOC
#ifdef I_SYS_TYPES
#  include <sys/types.h>
#endif
#ifdef I_UNISTD
#  include <unistd.h>
#endif
#ifdef I_TIME
#  include <time.h>
#endif
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <string.h>
#ifdef I_MALLOC
#  include <malloc.h>
#endif
int
 main()
{
   int result = 0;
   time_t t = time(0L);
   char w_tz[]="TZ" "=GMT+5",
  e_tz[]="TZ" "=GMT-5",
 *tz_e = (char*)malloc(16),
 *tz_w = (char*)malloc(16);
   struct tm tm_e, tm_w;
   memset(&tm_e,'\0',sizeof(struct tm));
   memset(&tm_w,'\0',sizeof(struct tm));
   strcpy(tz_e,e_tz);
   strcpy(tz_w,w_tz);
```

```
   putenv(tz_e);
   localtime_r(&t, &tm_e);

   putenv(tz_w);
   localtime_r(&t, &tm_w);

   if( memcmp(&tm_e, &tm_w, sizeof(struct tm)) == 0 )
 result = 1;

   free(tz_e);free(tz_w);
   return result;
}
EOCP
 set try
 if eval $compile; then
     if $run ./try; then
  d_localtime_r_needs_tzset=undef;
     else
  d_localtime_r_needs_tzset=define;
     fi;
 else
     d_localtime_r_needs_tzset=undef;
 fi;
    ;;
 *)
    d_localtime_r_needs_tzset=undef;
    ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_localtime_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sig_name.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  16:21:25  ram
?RCS: patch61: brand new algorithm for sig_name and (new!) sig_num
```

```
?RCS:
?RCS: Revision 3.0.1.4  1995/07/25  14:14:54  ram
?RCS: patch56: added <asm/signal.h> lookup for linux
?RCS:
?RCS: Revision 3.0.1.3  1995/05/12  12:24:11  ram
?RCS: patch54: now looks for <linux/signal.h> too (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20  07:06:57  ram
?RCS: patch30: final echo was missing to close awk-printed string
?RCS:
?RCS: Revision 3.0.1.1
  1994/05/06  15:17:55  ram
?RCS: patch23: signal list now formatted to avoid scroll-ups (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:sig_name sig_name_init sig_num sig_num_init sig_count sig_size: \
 awk Signal Oldconfig rm
?MAKE: -pick add $@ %<
?S:sig_name:
?S: This variable holds the signal names, space separated. The leading
?S: SIG in signal name is removed.  A ZERO is prepended to the
?S: list.  This is currently not used.
?S:.
?S:sig_name_init:
?S: This variable holds the signal names, enclosed in double quotes and
?S: separated by commas, suitable for use in the SIG_NAME definition
?S: below.  A "ZERO" is prepended to the list, and the list is
?S: terminated with a plain 0.  The leading SIG in signal names
?S: is removed. See sig_num.
?S:.
?S:sig_num:
?S: This variable holds the signal numbers, space separated. A ZERO is
?S: prepended to the list (corresponding to the fake SIGZERO), and
?S: the list is terminated
 with a 0.  Those numbers correspond to
?S: the value of the signal listed in the same place within the
?S: sig_name list.
?S:.
?S:sig_num_init:
?S: This variable holds the signal numbers, enclosed in double quotes and
?S: separated by commas, suitable for use in the SIG_NUM definition
?S: below.  A "ZERO" is prepended to the list, and the list is
?S: terminated with a plain 0.
?S:.
?S:sig_count (sig_name.U):
?S:  This variable holds a number larger than the largest valid
```

```
?S:  signal number.  This is usually the same as the NSIG macro.
?S:.
?S:sig_size:
?S:  This variable contains the number of elements of the sig_name
?S:  and sig_num arrays, excluding the final NULL entry.
?S:.
?C:SIG_NAME:
?C: This symbol contains a list of signal names in order of
?C: signal number. This is intended
?C: to be used as a static array initialization, like this:
?C:  char *sig_name[] = { SIG_NAME };
?C: The signals in the list are separated with commas, and each signal
?C: is surrounded by double
 quotes. There is no leading SIG in the signal
?C: name, i.e. SIGQUIT is known as "QUIT".
?C: Gaps in the signal numbers (up to NSIG) are filled in with NUMnn,
?C: etc., where nn is the actual signal number (e.g. NUM37).
?C: The signal number for sig_name[i] is stored in sig_num[i].
?C: The last element is 0 to terminate the list with a NULL.  This
?C: corresponds to the 0 at the end of the sig_num list.
?C:.
?C:SIG_NUM:
?C: This symbol contains a list of signal numbers, in the same order as the
?C: SIG_NAME list. It is suitable for static array initialization, as in:
?C:  int sig_num[] = { SIG_NUM };
?C: The signals in the list are separated with commas, and the indices
?C: within that list and the SIG_NAME list match, so it's easy to compute
?C: the signal name from a number or vice versa at the price of a small
?C: dynamic linear lookup.
?C: Duplicates are allowed, but are moved to the end of the list.
?C: The signal number corresponding to sig_name[i] is sig_number[i].
?C: if (i
 < NSIG) then sig_number[i] == i.
?C: The last element is 0, corresponding to the 0 at the end of
?C: the sig_name list.
?C:.
?C:SIG_COUNT:
?C: This variable contains a number larger than the largest
?C: signal number.  This is usually the same as the NSIG macro.
?C:.
?C:SIG_SIZE:
?C: This variable contains the number of elements of the sig_name
?C: and sig_num arrays, excluding the final NULL entry.
?C:.
?H:#define SIG_NAME $sig_name_init  /**/
?H:#define SIG_NUM  $sig_num_init  /**/
?H:#define SIG_COUNT $sig_count   /**/
?H:#define SIG_SIZE $sig_size   /**/
```

```
?H:.
?T:i doinit
?F:!= !signal_cmd
?X: signal.cmd creates a file  signal.lst which has two columns:
?X: NAME  number, e.g.
?X:  HUP 1
?X: The list is sorted on signal number, with duplicates moved to
?X: the end..
: generate list of signal names
echo " "
case "$sig_name_init" in
") doinit=yes ;;
*)  case "$sig_num_init" in
   "|*,*) doinit=yes ;;
   esac ;;
esac
case "$doinit" in
yes)
 echo "Generating a list of signal names and
 numbers..." >&4
 . ./signal_cmd
 sig_count=`$awk '/^NSIG/ { printf "%d", $2 }' signal.lst`
 sig_name=`$awk 'BEGIN { printf "ZERO " }
   !/^NSIG/ { printf "%s ", $1 }' signal.lst`
 sig_num=`$awk  'BEGIN { printf "0 " }
   !/^NSIG/ { printf "%d ", $2 }' signal.lst`
 sig_name_init=`$awk 'BEGIN { printf "\"ZERO\", " }
        !/^NSIG/ { printf "\"%s\", ", $1 }
        END { printf "0\n" }' signal.lst`
 sig_num_init=`$awk  'BEGIN { printf "0, " }
        !/^NSIG/ { printf "%d, ", $2}
        END { printf "0\n"}' signal.lst`
 ;;
esac
echo "The following $sig_count signals are available:"
echo " "
echo $sig_name | $awk \
'BEGIN { linelen = 0 }
{
 for (i = 1; i <= NF; i++) {
  name = "SIG" $i " "
  linelen = linelen + length(name)
  if (linelen > 70) {
   printf "\n"
   linelen = length(name)
  }
  printf "%s", name
 }
```

```
 printf "\n"
}'
sig_size=`echo $sig_name | awk '{print NF}'`
$rm -f signal signal.c signal.awk signal.lst signal_cmd
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/sig_name.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_srandom_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_srandom_r srandom_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_stdlib extern_C
?MAKE: -pick add $@ %<
?S:d_srandom_r:
?S: This variable conditionally defines the HAS_SRANDOM_R symbol,
?S: which indicates to the C program that the srandom_r()
?S: routine is available.
?S:.
?S:srandom_r_proto:
?S: This variable encodes the prototype of srandom_r.
?S: It is zero if d_srandom_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_srandom_r
?S: is defined.
?S:.
?C:HAS_SRANDOM_R:
?C: This symbol, if defined, indicates that the srandom_r routine
?C: is available to srandom re-entrantly.
?C:.
?C:SRANDOM_R_PROTO:
?C: This
 symbol encodes the prototype of srandom_r.
?C: It is zero if d_srandom_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_srandom_r
?C: is defined.
?C:.
?H:#$d_srandom_r HAS_SRANDOM_R /**/
?H:#define SRANDOM_R_PROTO $srandom_r_proto /**/
?H:.
?T:try hdrs d_srandom_r_proto
: see if srandom_r exists
```

```
set srandom_r d_srandom_r
eval $inlibc
case "$d_srandom_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_stdlib stdlib.h"
 case "$d_srandom_r_proto:$usethreads" in
 ":define") d_srandom_r_proto=define
  set d_srandom_r_proto srandom_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_srandom_r_proto" in
 define)
 case "$srandom_r_proto" in
 "|0) try='int srandom_r(unsigned int, struct random_data*);'
 ./protochk "$extern_C $try" $hdrs && srandom_r_proto=I_TS ;;
 esac
 case "$srandom_r_proto" in
 "|0) d_srandom_r=undef
  srandom_r_proto=0
  echo "Disabling srandom_r, cannot determine prototype." >&4 ;;
 *
 ) case "$srandom_r_proto" in
  REENTRANT_PROTO*) ;;
  *) srandom_r_proto="REENTRANT_PROTO_$srandom_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "srandom_r has no prototype, not using it." >&4 ;;
  esac
  d_srandom_r=undef
  srandom_r_proto=0
  ;;
 esac
 ;;
*) srandom_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_srandom_r.U
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_portable.U,v $
?RCS: Revision 3.0.1.2  1995/01/11  15:28:52  ram
?RCS: patch45: executable path stripping moved to the end in Config_sh.U
?RCS:
?RCS: Revision 3.0.1.1  1993/12/15  08:21:17  ram
?RCS: patch15: did not strip variables properly when needed
?RCS: patch15: now also strips down variables from trylist
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The Loc unit is wanted to get the definition of all the locating variables.
?X:
?MAKE:d_portable:
 cat Loc Myread Oldconfig
?MAKE: -pick add $@ %<
?S:d_portable:
?S: This variable conditionally defines the PORTABLE symbol, which
?S: indicates to the C program that it should not assume that it is
?S: running on the machine it was compiled on.
?S:.
?C:PORTABLE:
?C: This symbol, if defined, indicates to the C program that it should
?C: not assume that it is running on the machine it was compiled on.
?C: The program should be prepared to look up the host name, translate
?C: generic filenames, use PATH, etc.
?C:.
?H:#$d_portable PORTABLE /**/
?H:.
?D:d_portable="
: decide how portable to be
case "$d_portable" in
"$define") dflt=y;;
*) dflt=n;;
esac
$cat <<'EOH'

I can set things up so that your shell scripts and binaries are more portable,
at what may be a noticable cost in performance.  In particular, if you
```

```
ask to be portable, the following happens:

    1) Shell scripts will rely on the PATH variable rather than using
 the paths derived above.
    2) ~username
 interpretations will be done at run time rather than
 by Configure.
@if PHOSTNAME
    3) The system name will be determined at run time, if at all possible.
@end

EOH
rp="Do you expect to run these scripts and binaries on multiple machines?"
. ./myread
case "$ans" in
 y*) d_portable="$define"
?X:
?X: Paths will be stripped down (/usr/bin/vi -> vi) in Config_sh.U if needed.
?X:
 ;;
 *)  d_portable="$undef" ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_portable.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Loc.U,v $
?RCS: Revision 3.0.1.10  1997/02/28  15:04:16  ram
?RCS: patch61: allow users to specify paths on the command line
?RCS: patch61: will now substitute cp for ln if not supported
?RCS:
?RCS: Revision 3.0.1.9  1995/09/25  09:11:24  ram
?RCS: patch59: commented the purpose of the #un-def directive
?RCS: patch59: abort Configure run when mandatory command is missing
?RCS:
?RCS: Revision 3.0.1.8  1995/07/25  13:40:40  ram
```

```
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.7
  1995/01/11  15:13:37  ram
?RCS: patch45: protected "sh -c" within backquotes for Linux and SGI
?RCS: patch45: added path lookup for the 'comm' program
?RCS:
?RCS: Revision 3.0.1.6  1994/10/29  15:56:14  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: be careful and guard against wildcard searching (ADO)
?RCS:
?RCS: Revision 3.0.1.5  1994/06/20  06:54:55  ram
?RCS: patch30: now locates find
?RCS:
?RCS: Revision 3.0.1.4  1994/05/13  15:18:15  ram
?RCS: patch27: added byacc to the trylist (ADO)
?RCS: patch27: lint lines reformatted (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/01/24  14:01:44  ram
?RCS: patch16: added metalint hint on changed PATH variable
?RCS:
?RCS: Revision 3.0.1.2  1993/12/15  08:16:52  ram
?RCS: patch15: now set _test variable when test is built-in
?RCS: patch15: fixed rare cases where echo is not needed
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  15:47:13  ram
?RCS: patch10: test program not always in /bin/test (WAD)
?RCS:
?RCS: Revision
 3.0  1993/08/18  12:05:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script "loc" which can be used to find out
?X: where in a list of directories something is.  It then uses loc to
?X: determine the location of commonly used programs.  It leaves loc sitting
?X: around for other Configure units to use, but arranges for its demise
?X: at the end of Configure.
?X:
?X: To add a new program to find, add it both to the ?MAKE: line and to either
?X: the loclist or trylist variable.
?X:
?X: I put startsh at the end of the dependency list, in order to avoid the
?X: loading of the spitshell unit before the instructions.
?X:
?MAKE:Loc awk ar bash bison byacc cat chgrp chmod chown \
 comm compress cp cpio cpp csh date echo egrep emacs expr find flex \
 gmake gzip grep inews ksh less line lint ln lp lpr ls mail mailx \
```

```
 make mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \
 shar sleep smail sort submit tail tar tbl tee test touch tr troff
 \
 uname uniq uuname vi zcat zip:  eunicefix n c startsh Instruct Warn
?MAKE: -pick weed $@ %<
?LINT:describe awk ar bash bison byacc cat chgrp chmod chown \
 comm compress cp cpio cpp csh date echo egrep emacs expr find flex \
 gmake gzip grep inews ksh less line lint ln lp lpr ls mail mailx \
 make mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \
 shar sleep smail sort submit tail tar tbl tee test touch tr troff \
 uname uniq uuname vi zcat zip
?V::pth loclist trylist
?F:./loc
?T:thisthing thing xxx dir file say DJGPP
?T:_test _grep _cp _gmake _egrep _ln _make dflt
?LINT: change PATH
: find out where common programs are
echo " "
echo "Locating common programs..." >&4
cat <<EOSC >loc
$startsh
case \$# in
0) exit 1;;
esac
thing=\$1
shift
dflt=\$1
shift
for dir in \$*; do
 case "\$thing" in
 .)
 if test -d \$dir/\$thing; then
  echo \$dir
  exit 0
 fi
 ;;
 *)
?X: Be careful in case thing includes wildcards that might expand to multiple
?X: files.  Choose the last one.
  This happens when searching for shared
?X: libraries with version numbers.  How to choose which one we want is
?X: probably an insoluble problem, in general.
?X: Some folks leave things like libc.so.orig around w/o read
?X: permission.  A -r test would handle that, but since ./loc is
?X: also used to find executables (which are installed w/o read
?X: permission on SCO ODT 3.0, we can't include the -r test.
 for thisthing in \$dir/\$thing; do
  : just loop through to pick last item
```

```
 done
 if test -f \$thisthing; then
  echo \$thisthing
  exit 0
 elif test -f \$thisthing$_exe; then
  echo \$thisthing
  exit 0
 elif test -f \$dir/\$thing.exe; then
  if test -n "$DJGPP"; then
   echo \$dir/\$thing.exe
  else
   : on Eunice apparently
   echo \$dir/\$thing
  fi
  exit 0
 fi
 ;;
 esac
done
echo \$dflt
exit 1
EOSC
chmod +x loc
$eunicefix loc
loclist="
?awk:awk
?cat:cat
?chgrp:chgrp
?chmod:chmod
?chown:chown
?comm:comm
?cp:cp
?echo:echo
?expr:expr
?find:find
?grep:grep
?ls:ls
?mkdir:mkdir
?mv:mv
?rm:rm
?sed:sed
?sleep:sleep
?sort:sort
?tail:tail
?touch:touch
?tr:tr
?uniq:uniq
"
```

```
trylist="
?Mcc:Mcc
?ar:ar
?bash:bash
?bison:bison
?byacc:byacc
?compress:compress
?cpio:cpio
?cpp:cpp
?csh:csh
?date:date
?egrep:egrep
?emacs:emacs
?flex:flex
?gmake:gmake
?gzip:gzip
?inews:inews
?ksh:ksh
?less:less
?line:line
?lint:lint
?ln:ln
?lp:lp
?lpr:lpr
?mail:mail
?mailx:mailx
?make:make
?more:more
?nm:nm
?nroff:nroff
?perl:perl
?pg:pg
?pmake:pmake
?pr:pr
?rmail:rmail
?sendmail:sendmail
?shar:shar
?smail:smail
?submit:submit
?tar:tar
?tbl:tbl
?tee:tee
?test:test
?troff:troff
?uname:uname
?uuname:uuname
?vi:vi
?zcat:zcat
```

```
?zip:zip
"
?LINT:set
 awk ar bash bison byacc cat chgrp chmod chown \
 comm compress cp cpio cpp csh date echo emacs expr find flex \
 gmake gzip grep inews ksh less line lint lp lpr ls mail mailx \
 mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \
 shar sleep smail sort submit tail tar tbl tee touch tr troff \
 uname uniq uuname vi zcat zip
pth=`echo $PATH | sed
 -e "s/$p_/ /g"`
pth="$pth /lib /usr/lib"
for file in $loclist; do
?X:
?X: Allow them to -Dmake=pmake on the command line for instance...
?X: If the file is not fully qualified, as in -Dmake=pmake, then we
?X: look the for the specified command (pmake here). If they say
?X: -Dmake=/sbin/make for instance, then we make sure the file
?X: exists, or we die...
?X:
 eval xxx=\$$file
 case "$xxx" in
 /*|?:[\\/]*)
  if test -f "$xxx"; then
   : ok
  else
   ./warn "no $xxx -- ignoring your setting for $file."
   xxx=`./loc $file $file $pth`
  fi
  ;;
 ") xxx=`./loc $file $file $pth`;;
 *) xxx=`./loc $xxx $xxx $pth`;;
 esac
 eval $file=$xxx$_exe
 eval _$file=$xxx
 case "$xxx" in
 /*)
  echo $file is in $xxx.
  ;;
?X: Under OS/2, we have PC-like paths
 ?:[\\/]*)
  echo $file is in $xxx.
  ;;
 *)
  echo "I don't know where '$file' is, and my life depends on it." >&4
  echo "Go find a public domain implementation or fix your PATH setting!" >&4
  exit 1
  ;;
```

```
 esac
done
echo " "
echo "Don't worry
 if any of the following aren't found..."
say=offhand
for file in $trylist; do
?X: Allow them to -Dmake=pmake on the command line for instance (see above)
 eval xxx=\$$file
 case "$xxx" in
 /*|?:[\\/]*)
  if test -f "$xxx"; then
   : ok
  else
   ./warn "no $xxx -- ignoring your setting for $file."
   xxx=`./loc $file $file $pth`
  fi
  ;;
 ") xxx=`./loc $file $file $pth`;;
 *) xxx=`./loc $xxx $xxx $pth`;;
 esac
 eval $file=$xxx$_exe
 eval _$file=$xxx
 case "$xxx" in
 /*)
  echo $file is in $xxx.
  ;;
?X: Under OS/2, we have PC-like paths
 ?:[\\/]*)
  echo $file is in $xxx.
  ;;
 *)
  echo "I don't see $file out there, $say."
  say=either
  ;;
 esac
done
case "$egrep" in
egrep)
 echo "Substituting grep for egrep."
 egrep=$grep
 _egrep=$_grep
 ;;
esac
@if ln
case "$ln" in
ln)
 echo "Substituting cp for ln."
```

```
 ln=$cp
 _ln=$_cp
 ;;
esac
@end
@if make || gmake
case "$make" in
make)
 case "$gmake" in
 gmake)
 echo "I can't find make or gmake, and my life depends on it." >&4
 echo "Go find a
 public domain implementation or fix your PATH setting!" >&4
 exit 1
 ;;
 esac
 ;;
esac
case "$gmake" in
gmake) ;;
*) # We can't have osname yet.
 if test -f "/system/gnu_library/bin/ar.pm"; then # Stratus VOS
  # Assume that gmake, if found, is definitely GNU make
  # and prefer it over the system make.
  echo "Substituting gmake for make."
  make=$gmake
  _make=$_gmake
 fi
 ;;
esac
@end
case "$test" in
test)
 echo "Hopefully test is built into your sh."
 ;;
*)
 if `sh -c "PATH= test true" >/dev/null 2>&1`; then
  echo "Using the test built into your sh."
?X:
?X: We need to set both test and _test, since Oldconfig.U will use the _test
?X: value to systematically restore computed paths, which may be wrong if
?X: we choose to load an old config.sh generated on another platform.
?X:
  test=test
  _test=test
 fi
 ;;
esac
```

```
?LINT:change n c
case "$echo" in
echo)
 echo "Hopefully echo is built into your sh."
 ;;
?X: For those rare cases where we don't need $echo...
") ;;
*)
 echo " "
echo "Checking
 compatibility between $echo and builtin echo (if any)..." >&4
 $echo $n "hi there$c" >foo1
 echo $n "hi there$c" >foo2
 if cmp foo1 foo2 >/dev/null 2>&1; then
  echo "They are compatible.  In fact, they may be identical."
 else
  case "$n" in
  '-n') n=" c='\c';;
  *) n='-n' c=";;
  esac
  cat <<FOO
They are not compatible!  You are probably running ksh on a non-USG system.
I'll have to use $echo instead of the builtin, since Bourne shell doesn't
have echo built in and we may have to run some Bourne shell scripts.  That
means I'll have to use '$n$c' to suppress newlines now.  Life is ridiculous.

FOO
  $echo $n "The star should be here-->$c"
  $echo "*"
 fi
 $rm -f foo1 foo2
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Loc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: i_malloc.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:21  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_malloc: Inhdr
?MAKE: -pick add $@ %<
?S:i_malloc:
?S: This variable conditionally defines the I_MALLOC symbol, and indicates
?S: whether a C program should include <malloc.h>.
?S:.
?C:I_MALLOC:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <malloc.h>.
?C:.
?H:#$i_malloc I_MALLOC  /**/
?H:.
?LINT:set i_malloc
: see if this is a malloc.h system
set
 malloc.h i_malloc
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_malloc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fmod.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_fmod.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:12:46  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_fmod: Inlibc
?MAKE: -pick add $@ %<
?S:d_fmod:
?S: This variable conditionally defines the HAS_FMOD symbol, which
```

```
?S: indicates to the C program that the fmod() routine is available.
?S: See also d_drem for the drem() routine which does roughly the same.
?S:.
?C:HAS_FMOD
 :
?C: This symbol, if defined, indicates that the fmod routine is
?C: available to compute the remainder r=x-n*y where n=trunc(x/y).
?C:.
?H:#$d_fmod HAS_FMOD  /**/
?H:.
?LINT:set d_fmod
: see if fmod exists
set fmod d_fmod
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_fmod.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fmin: Inlibc
?MAKE: -pick add $@ %<
?S:d_fmin:
?S: This variable conditionally defines the HAS_FMIN symbol, which
?S: indicates to the C program that the fmin() routine is available.
?S:.
?C:HAS_FMIN:
?C: This symbol, if defined, indicates that the fmin routine is
?C: available to do the minimum function.
?C:.
?H:#$d_fmin HAS_FMIN  /**/
?H:.
?LINT:set d_fmin
: see if fmin exists
set fmin d_fmin
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fmin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpwuid_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getpwuid_r getpwuid_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_pwd extern_C
?MAKE: -pick add $@ %<
?S:d_getpwuid_r:
?S: This variable conditionally defines the HAS_GETPWUID_R symbol,
?S: which indicates to the C program that the getpwuid_r()
?S: routine is available.
?S:.
?S:getpwuid_r_proto:
?S: This variable encodes the prototype of getpwuid_r.
?S: It is zero if d_getpwuid_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getpwuid_r
?S: is defined.
?S:.
?C:HAS_GETPWUID_R:
?C: This symbol, if defined, indicates that the getpwuid_r routine
?C: is available to
 getpwuid re-entrantly.
?C:.
?C:GETPWUID_R_PROTO:
?C: This symbol encodes the prototype of getpwuid_r.
?C: It is zero if d_getpwuid_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getpwuid_r
?C: is defined.
?C:.
?H:#$d_getpwuid_r HAS_GETPWUID_R /**/
?H:#define GETPWUID_R_PROTO $getpwuid_r_proto /**/
?H:.
?T:try hdrs d_getpwuid_r_proto
: see if getpwuid_r exists
set getpwuid_r d_getpwuid_r
eval $inlibc
case "$d_getpwuid_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_pwd pwd.h"
 case "$d_getpwuid_r_proto:$usethreads" in
 ":define") d_getpwuid_r_proto=define
  set d_getpwuid_r_proto getpwuid_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getpwuid_r_proto" in
 define)
```

```
 case "$getpwuid_r_proto" in
 "|0) try='int getpwuid_r(uid_t, struct passwd*, char*, size_t, struct passwd**);'
 ./protochk "$extern_C $try" $hdrs && getpwuid_r_proto=I_TSBWR ;;
 esac
 case "$getpwuid_r_proto" in
 "|0) try='int getpwuid_r(uid_t, struct passwd*, char*, int,
 struct passwd**);'
 ./protochk "$extern_C $try" $hdrs && getpwuid_r_proto=I_TSBIR ;;
 esac
 case "$getpwuid_r_proto" in
 "|0) try='int getpwuid_r(uid_t, struct passwd*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getpwuid_r_proto=I_TSBI ;;
 esac
 case "$getpwuid_r_proto" in
 "|0) try='struct passwd* getpwuid_r(uid_t, struct passwd*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getpwuid_r_proto=S_TSBI ;;
 esac
 case "$getpwuid_r_proto" in
 "|0) d_getpwuid_r=undef
  getpwuid_r_proto=0
  echo "Disabling getpwuid_r, cannot determine prototype." >&4 ;;
 * ) case "$getpwuid_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getpwuid_r_proto="REENTRANT_PROTO_$getpwuid_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getpwuid_r has no prototype, not using it." >&4 ;;
  esac
  d_getpwuid_r=undef
  getpwuid_r_proto=0
  ;;
 esac
 ;;
*) getpwuid_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getpwuid_r.U
No license file was found, but licenses were detected in source scan.

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?RCS: License or the Artistic License, as specified in the README file.
?RCS:

```
?MAKE:d_log2: Inlibc
?MAKE: -pick add $@ %<
?S:d_log2:
?S: This variable conditionally defines the HAS_LOG2 symbol, which
?S: indicates to the C program that the log2() routine is available
?S: to compute log base two.
?S:.
?C:HAS_LOG2:
?C: This symbol, if defined, indicates that the log2 routine is
?C: available to do the log2 function.
?C:.
?H:#$d_log2 HAS_LOG2  /**/
?H:.
?LINT:set d_log2
: see if log2 exists
set log2 d_log2
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_log2.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getwd.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getwd.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:18  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getwd: Csym Setvar
?MAKE: -pick add $@ %<
?S:d_getwd:
?S: This variable conditionally defines HAS_GETWD if getwd() is
?S: available to get working directory. If not, you should
?S: probably use getcwd().
?S:.
?C:HAS_GETWD (GETWD):
?C: This symbol, if defined, indicates that the getwd routine is
?C: available to get working directory.
```

```
 If not, you should
?C: probably use getcwd().
?C:.
?H:#$d_getwd HAS_GETWD  /**/
?H:.
?LINT:set d_getwd
: see if getwd exists
echo " "
if set getwd val -f d_getwd; eval $csym; $val; then
 echo 'getwd() found.' >&4
 val="$define"
else
 echo 'getwd() not found. Assuming getcwd() exists.' >&4
 val="$undef"
fi
set d_getwd
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getwd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2016 Dagfinn Ilmari Mannsker & H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_siginfo_si_errno d_siginfo_si_pid d_siginfo_si_uid d_siginfo_si_addr d_siginfo_si_status
d_siginfo_si_band d_siginfo_si_value d_siginfo_si_fd: d_sigaction pidtype uidtype Hasfield_t
?MAKE: -pick add $@ %<
?S:d_siginfo_si_errno:
?S: This variable conditionally defines the HAS_SIGINFO_SI_ERRNO symbol,
?S: which indicates that the siginfo_t struct has the si_errno member.
?S:.
?S:d_siginfo_si_pid:
?S: This variable conditionally defines the HAS_SIGINFO_SI_PID symbol,
?S: which indicates that the siginfo_t struct has the si_pid member.
?S:.
?S:d_siginfo_si_uid:
?S: This variable conditionally defines the HAS_SIGINFO_SI_UID symbol,
?S: which indicates that the siginfo_t struct has the si_uid member.
?S:.
?S:d_siginfo_si_addr:
?S: This
 variable conditionally defines the HAS_SIGINFO_SI_ADDR symbol,
?S: which indicates that the siginfo_t struct has the si_addr member.
?S:.
```

```
?S:d_siginfo_si_status:
?S: This variable conditionally defines the HAS_SIGINFO_SI_STATUS symbol,
?S: which indicates that the siginfo_t struct has the si_status member.
?S:.
?S:d_siginfo_si_band:
?S: This variable conditionally defines the HAS_SIGINFO_SI_BAND symbol,
?S: which indicates that the siginfo_t struct has the si_band member.
?S:.
?S:d_siginfo_si_value:
?S: This variable conditionally defines the HAS_SIGINFO_SI_VALUE symbol,
?S: which indicates that the siginfo_t struct has the si_value member.
?S:.
?S:d_siginfo_si_fd:
?S: This variable conditionally defines the HAS_SIGINFO_SI_FD symbol,
?S: which indicates that the siginfo_t struct has the si_fd member.
?S:.
?C:HAS_SIGINFO_SI_ERRNO:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_errno member
?C:.
?C:HAS_SIGINFO_SI_PID:
?C: This
 symbol, if defined, indicates that siginfo_t has the
?C: si_pid member
?C:.
?C:HAS_SIGINFO_SI_UID:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_uid member
?C:.
?C:HAS_SIGINFO_SI_ADDR:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_addr member
?C:.
?C:HAS_SIGINFO_SI_STATUS:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_status member
?C:.
?C:HAS_SIGINFO_SI_BAND:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_band member
?C:.
?C:HAS_SIGINFO_SI_VALUE:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_value member
?C:.
?C:HAS_SIGINFO_SI_FD:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_fd member
```

```
?C:.
?H:#$d_siginfo_si_errno HAS_SIGINFO_SI_ERRNO /**/
?H:#$d_siginfo_si_pid HAS_SIGINFO_SI_PID /**/
?H:#$d_siginfo_si_uid HAS_SIGINFO_SI_UID /**/
?H:#$d_siginfo_si_addr HAS_SIGINFO_SI_ADDR /**/
?H:#$d_siginfo_si_status HAS_SIGINFO_SI_STATUS /**/
?H:#$d_siginfo_si_band HAS_SIGINFO_SI_BAND /**/
?H:#$d_siginfo_si_value HAS_SIGINFO_SI_VALUE /**/
?H:#$d_siginfo_si_fd HAS_SIGINFO_SI_FD /**/
?H:.
:
 see what siginfo fields we have
case "$d_sigaction" in
"$define")
 echo "Checking if your siginfo_t has si_errno field...">&4
 set d_siginfo_si_errno siginfo_t int si_errno $d_sigaction signal.h
 eval $hasfield_t;

 echo "Checking if your siginfo_t has si_pid field...">&4
 set d_siginfo_si_pid siginfo_t $pidtype si_pid $d_sigaction signal.h
 eval $hasfield_t;

 echo "Checking if your siginfo_t has si_uid field...">&4
 set d_siginfo_si_uid siginfo_t $uidtype si_uid $d_sigaction signal.h
 eval $hasfield_t;

 echo "Checking if your siginfo_t has si_addr field...">&4
 set d_siginfo_si_addr siginfo_t "void *" si_addr $d_sigaction signal.h
 eval $hasfield_t;

 echo "Checking if your siginfo_t has si_status field...">&4
 set d_siginfo_si_status siginfo_t int si_status $d_sigaction signal.h
 eval $hasfield_t;

 echo "Checking if your siginfo_t has si_band field...">&4
 set
 d_siginfo_si_band siginfo_t long si_band $d_sigaction signal.h
 eval $hasfield_t;

 echo "Checking if your siginfo_t has si_value field...">&4
 set d_siginfo_si_value siginfo_t "union sigval" si_value $d_sigaction signal.h
 eval $hasfield_t;

 echo "Checking if your siginfo_t has si_fd field...">&4
 set d_siginfo_si_fd siginfo_t int si_fd $d_sigaction signal.h
 eval $hasfield_t;

 ;;
```

```
*)
 d_siginfo_si_errno="$undef"
 d_siginfo_si_pid="$undef"
 d_siginfo_si_uid="$undef"
 d_siginfo_si_addr="$undef"
 d_siginfo_si_status="$undef"
 d_siginfo_si_band="$undef"
 d_siginfo_si_value="$undef"
 d_siginfo_si_fd="$undef"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_siginfo_si.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_castneg.U,v $
?RCS: Revision 3.0.1.2  1995/05/12  12:11:21  ram
?RCS: patch54: made sure cc and ccflags are conditional dependencies
?RCS: patch54: added improved test case for Interactive Unix
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:10:50  ram
?RCS: patch36: don't forget to tell user about compilation failures (ADO)
?RCS: patch36: declare signal handler correctly using 'signal_t' (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Can
 the compiler cast negative / odd floats to unsigned values.
?X:
?MAKE:d_castneg castflags: cat +cc +ccflags rm_try Setvar signal_t
?MAKE: -pick add $@ %<
?S:d_castneg:
?S: This variable conditionally defines CASTNEG, which indicates
?S: wether the C compiler can cast negative float to unsigned.
```

```
?S:.
?S:castflags:
?S: This variable contains a flag that precise difficulties the
?S: compiler has casting odd floating values to unsigned long:
?S:  0 = ok
?S:  1 = couldn't cast < 0
?S:  2 = couldn't cast >= 0x80000000
?S:  4 = couldn't cast in argument expression list
?S:.
?C:CASTNEGFLOAT:
?C: This symbol is defined if the C compiler can cast negative
?C: numbers to unsigned longs, ints and shorts.
?C:.
?C:CASTFLAGS:
?C: This symbol contains flags that say what difficulties the compiler
?C: has casting odd floating values to unsigned long:
?C:  0 = ok
?C:  1 = couldn't cast < 0
?C:  2 = couldn't cast >= 0x80000000
?C:  4 = couldn't cast in argument expression list
?C:.
?H:#$d_castneg CASTNEGFLOAT  /**/
?H:#define
 CASTFLAGS $castflags  /**/
?H:.
?F:!try
?LINT:set d_castneg
: check for ability to cast negative floats to unsigned
echo " "
echo 'Checking whether your C compiler can cast negative float to unsigned.' >&4
$cat >try.c <<EOCP
#include <sys/types.h>
#include <signal.h>
$signal_t blech() { exit(7); }
$signal_t blech_in_list() { exit(4); }
unsigned long dummy_long(p) unsigned long p; { return p; }
unsigned int dummy_int(p) unsigned int p; { return p; }
unsigned short dummy_short(p) unsigned short p; { return p; }
int main()
{
 double f = -123.;
 unsigned long along;
 unsigned int aint;
 unsigned short ashort;
 int result = 0;

 signal(SIGFPE, blech);
 along = (unsigned long)f;
```

```
 aint = (unsigned int)f;
 ashort = (unsigned short)f;
 if (along != (unsigned long)-123)
  result |= 1;
 if (aint != (unsigned int)-123)
  result |= 1;
 if (ashort != (unsigned short)-123)
  result |= 1;
 f = (double)0x40000000;
 f = f + f;
 along = 0;
 along = (unsigned long)f;
 if
 (along != 0x80000000)
  result |= 2;
 f -= 1.;
 along = 0;
 along = (unsigned long)f;
 if (along != 0x7fffffff)
  result |= 1;
 f += 2.;
 along = 0;
 along = (unsigned long)f;
 if (along != 0x80000001)
  result |= 2;
 if (result)
  exit(result);
?X:
?X: The following is a test for Interactive Unix Version 4.1, which
?X: has an 'improved' compiler which can correctly cast negative
?X: floats in expression lists, but apparently not in argument lists.
?X: Contributed by Winfried Koenig <win@incom.rhein-main.de>
?X:
 signal(SIGFPE, blech_in_list);
 f = 123.;
 along = dummy_long((unsigned long)f);
 aint = dummy_int((unsigned int)f);
 ashort = dummy_short((unsigned short)f);
 if (along != (unsigned long)123)
  result |= 4;
 if (aint != (unsigned int)123)
  result |= 4;
 if (ashort != (unsigned short)123)
  result |= 4;
 exit(result);

}
EOCP
```

```
if $cc $ccflags -o try try.c >/dev/null 2>&1; then
 ./try
 castflags=$?
else
 echo "(I can't seem to compile the test program--assuming it can't)"
 castflags=7
fi
case
 "$castflags" in
0) val="$define"
 echo "Yup, it can."
 ;;
*) val="$undef"
 echo "Nope, it can't."
 ;;
esac
set d_castneg
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_castneg.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setsent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_setsent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setsent: Inlibc
?MAKE: -pick add $@ %<
?S:d_setsent:
?S: This variable conditionally defines HAS_SETSERVENT if setservent() is
?S: available.
?S:.
?C:HAS_SETSERVENT:
?C: This symbol, if defined, indicates that the setservent() routine is
?C: available.
```

```
?C:.
?H:#$d_setsent HAS_SETSERVENT  /**/
?H:.
?LINT:set d_setsent
: see if setservent exists
set
 setservent d_setsent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_setsent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cf_email.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:05:06  ram
?RCS: patch16: created
?RCS:
?RCS:
?MAKE:cf_email: cat cf_by test myhostname mydomain Oldconfig Myread
?MAKE: -pick add $@ %<
?S:cf_email:
?S: Electronic mail address of the person who ran Configure. This can be
?S: used by units that require the user's e-mail, like MailList.U.
?S:.
?T:cont maildomain
?LINT:extern MAILDOMAIN
: determine the e-mail address of the user who is running us
$cat <<EOM

I need to get your e-mail address
 in Internet format if possible, i.e.
something like user@host.domain. Please answer accurately since I have
no easy means to double check it. The default value provided below
is most probably close to reality but may not be valid from outside
your organization...

EOM
```

```
cont=x
while test "$cont"; do
 case "$MAILDOMAIN" in
 ")
  if $test -s /etc/mailname; then
   maildomain=`$cat /etc/mailname`
  else
   maildomain="$myhostname$mydomain"
  fi
  ;;
 *)  maildomain="$MAILDOMAIN";;
 esac
 case "$cf_email" in
 ") dflt="$cf_by@$maildomain";;
 *)  dflt="$cf_email";;
 esac
 rp='What is your e-mail address?'
 . ./myread
 cf_email="$ans"
 case "$cf_email" in
 *@*.*) cont=" ;;
 *)
  rp='Address does not look like an Internet one.  Use it anyway?'
  case "$fastread" in
  yes) dflt=y ;;
  *) dflt=n ;;
  esac
  . ./myread
  case "$ans" in
  y*) cont=" ;;
  *) echo " " ;;
  esac
  ;;
 esac
done
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/cf_email.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_ndbm.U,v 3.0.1.1 1995/05/12 12:16:53 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: i_ndbm.U,v $
?RCS: Revision 3.0.1.1  1995/05/12  12:16:53  ram
?RCS: patch54: made more robust by checking both header and lib (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:23  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_ndbm i_gdbmndbm i_gdbm_ndbm d_ndbm d_ndbm_h_uses_prototypes \
 d_gdbmndbm_h_uses_prototypes d_gdbm_ndbm_h_uses_prototypes: \
    Inhdr Inlibc Setvar test d_cplusplus extern_C echo Protochk
?MAKE: -pick add $@ %<
?S:i_ndbm:
?S: This
 variable conditionally defines the I_NDBM symbol, which
?S: indicates to the C program that <ndbm.h> exists and should
?S: be included.
?S:.
?C:I_NDBM:
?C: This symbol, if defined, indicates that <ndbm.h> exists and should
?C: be included.
?C:.
?S:i_gdbmndbm:
?S: This variable conditionally defines the I_GDBMNDBM symbol, which
?S: indicates to the C program that <gdbm/ndbm.h> exists and should
?S: be included.  This was the location of the ndbm.h compatibility file
?S: in RedHat 7.1.
?S:.
?C:I_GDBMNDBM:
?C: This symbol, if defined, indicates that <gdbm/ndbm.h> exists and should
?C: be included.  This was the location of the ndbm.h compatibility file
?C: in RedHat 7.1.
?C:.
?S:i_gdbm_ndbm:
?S: This variable conditionally defines the I_GDBM_NDBM symbol, which
?S: indicates to the C program that <gdbm-ndbm.h> exists and should
?S: be included.  This is the location of the ndbm.h compatibility file
?S: in Debian 4.0.
?S:.
?C:I_GDBM_NDBM:
?C: This symbol, if defined, indicates
 that <gdbm-ndbm.h> exists and should
?C: be included.  This is the location of the ndbm.h compatibility file
?C: in Debian 4.0.
?C:.
?S:d_ndbm:
```

```
?S: This variable conditionally defines the HAS_NDBM symbol, which
?S: indicates that both the ndbm.h include file and an appropriate ndbm
?S: library exist.  Consult the different i_*ndbm variables
?S: to find out the actual include location.  Sometimes, a system has the
?S: header file but not the library.  This variable will only be set if
?S: the system has both.
?S:.
?C:HAS_NDBM:
?C: This symbol, if defined, indicates that some form of ndbm.h or compatibility
?C: include exists, along with the appropriate library.
?C:.
?S:d_ndbm_h_uses_prototypes:
?S: This variable conditionally defines the NDBM_H_USES_PROTOTYPES symbol,
?S: which indicates that the ndbm.h include file uses real ANSI C
?S: prototypes instead of K&R style function declarations. K&R style
?S: declarations are unsupported in C++, so the include file requires
?S: special handling
 when using a C++ compiler and this variable is
?S: undefined. Consult the different d_*ndbm_h_uses_prototypes variables
?S: to get the same information for alternative ndbm.h include files.
?S:.
?C:NDBM_H_USES_PROTOTYPES:
?C: This symbol, if defined, indicates that <ndbm.h> uses real ANSI C
?C: prototypes instead of K&R style function declarations without any
?C: parameter information. While ANSI C prototypes are supported in C++,
?C: K&R style function declarations will yield errors.
?C:.
?S:d_gdbmndbm_h_uses_prototypes:
?S: This variable conditionally defines the NDBM_H_USES_PROTOTYPES symbol,
?S: which indicates that the gdbm/ndbm.h include file uses real ANSI C
?S: prototypes instead of K&R style function declarations. K&R style
?S: declarations are unsupported in C++, so the include file requires
?S: special handling when using a C++ compiler and this variable is
?S: undefined. Consult the different d_*ndbm_h_uses_prototypes variables
?S: to get the same information for alternative
 ndbm.h include files.
?S:.
?C:GDBMNDBM_H_USES_PROTOTYPES:
?C: This symbol, if defined, indicates that <gdbm/ndbm.h> uses real ANSI C
?C: prototypes instead of K&R style function declarations without any
?C: parameter information. While ANSI C prototypes are supported in C++,
?C: K&R style function declarations will yield errors.
?C:.
?S:d_gdbm_ndbm_h_uses_prototypes:
?S: This variable conditionally defines the NDBM_H_USES_PROTOTYPES symbol,
?S: which indicates that the gdbm-ndbm.h include file uses real ANSI C
?S: prototypes instead of K&R style function declarations. K&R style
?S: declarations are unsupported in C++, so the include file requires
```

```
?S: special handling when using a C++ compiler and this variable is
?S: undefined. Consult the different d_*ndbm_h_uses_prototypes variables
?S: to get the same information for alternative ndbm.h include files.
?S:.
?C:GDBM_NDBM_H_USES_PROTOTYPES:
?C: This symbol, if defined, indicates that <gdbm-ndbm.h> uses real ANSI C
?C: prototypes
 instead of K&R style function declarations without any
?C: parameter information. While ANSI C prototypes are supported in C++,
?C: K&R style function declarations will yield errors.
?C:.
?H:#$i_ndbm I_NDBM /**/
?H:#$i_gdbmndbm I_GDBMNDBM /**/
?H:#$i_gdbm_ndbm I_GDBM_NDBM /**/
?H:#$d_ndbm HAS_NDBM /**/
?H:#$d_ndbm_h_uses_prototypes NDBM_H_USES_PROTOTYPES /**/
?H:#$d_gdbmndbm_h_uses_prototypes GDBMNDBM_H_USES_PROTOTYPES /**/
?H:#$d_gdbm_ndbm_h_uses_prototypes GDBM_NDBM_H_USES_PROTOTYPES /**/
?H:.
?T:d_dbm_open name hdr ihdr ndbm_hdr_protochk
?LINT:set d_ndbm d_gdbmndbm_h_uses_prototypes d_gdbm_ndbm_h_uses_prototypes
d_ndbm_h_uses_prototypes
: see if ndbm.h is available
set ndbm.h i_ndbm
eval $inhdr
: Compatibility location for RedHat 7.1
set gdbm/ndbm.h i_gdbmndbm
eval $inhdr
: Compatibility location for Debian 4.0
set gdbm-ndbm.h i_gdbm_ndbm
eval $inhdr

val="$undef"
if $test "$i_ndbm" = "$define" -o "$i_gdbmndbm" = "$define" -o "$i_gdbm_ndbm" = "$define"; then
 : see if dbm_open exists
 set
 dbm_open d_dbm_open
 eval $inlibc
 case "$d_dbm_open" in
 $undef)
  i_ndbm="$undef"
  i_gdbmndbm="$undef"
  i_gdbm_ndbm="$undef"
  echo "We won't be including <ndbm.h>"
  val="$undef"
  ;;
 *) val="$define"
    ;;
```

```
 esac
fi
set d_ndbm
eval $setvar

ndbm_hdr_protochk='name=$1; hdr=$2;
eval "ihdr=\$""i_$name";
val="$undef";
if $test "$ihdr" = "$define"; then
 $echo "Checking if your <$hdr> uses prototypes..." >&4;
 case "$d_cplusplus" in
 $define) ./protochk "$extern_C void dbm_close(DBM *);" literal "extern \"C\" {" $ihdr $hdr literal "}" &&
val="$define" ;;
 *) ./protochk "$extern_C void dbm_close(int, int);" $ihdr $hdr || val="$define" ;;
 esac;
 case "$val" in
 $define) $echo "Your <$hdr> seems to have prototypes";;
 *) $echo "Your <$hdr> does not seem to have prototypes";;
 esac;
fi;
set "d_${name}_h_uses_prototypes";
eval $setvar'

set ndbm ndbm.h
eval $ndbm_hdr_protochk
set gdbmndbm gdbm/ndbm.h
eval $ndbm_hdr_protochk
set gdbm_ndbm gdbm-ndbm.h
eval $ndbm_hdr_protochk

Found
 in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
5.36.0/U/modified/i_ndbm.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: startperl.U,v 3.0 1993/08/18 12:09:50 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: startperl.U,v $
```

```
?RCS: Perl5 version -- I always have d_portable=define.
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:startperl: cat Myread sharpbang initialinstalllocation test \
 versiononly version
?MAKE: -pick add $@ %<
?Y:TOP
?X: This is different from dist's standard startperl.U unit because
?X: we can't directly test #!/usr/local/bin/perl (or
 whatever) because
?X: we haven't built and installed perl yet.
?S:startperl:
?S: This variable contains the string to put on the front of a perl
?S: script to make sure (hopefully) that it runs with perl and not some
?S: shell. Of course, that leading line must be followed by the classical
?S: perl idiom:
?S:  eval 'exec perl -S $0 ${1+"$@"}'
?S:   if $running_under_some_shell;
?S: to guarantee perl startup should the shell execute the script. Note
?S: that this magic incantation is not understood by csh.
?S:.
?C:STARTPERL:
?C: This variable contains the string to put in front of a perl
?C: script to make sure (one hopes) that it runs with perl and not
?C: some shell.
?C:.
?H:#define STARTPERL "$startperl"  /**/
?H:.
: figure out how to guarantee perl startup
: XXX Note that this currently takes advantage of the bug that binexp ignores
:     the Configure -Dinstallprefix setting, which in turn means that under
:     relocatable @INC, initialinstalllocation is what binexp started as.
case
 "$startperl" in
")
 case "$sharpbang" in
 *!)
  $cat <<EOH

I can use the #! construct to start perl on your system. This will
make startup of perl scripts faster, but may cause problems if you
want to share those scripts and perl is not in a standard place
($initialinstalllocation/perl) on all your platforms. The alternative
is to force a shell by starting the script with a single ':' character.

EOH
```

```
  case "$versionony" in
  "$define")      dflt="$initialinstalllocation/perl$version";;
  *)              dflt="$initialinstalllocation/perl";;
  esac
  rp='What shall I put after the #! to start up perl ("none" to not use #!)?'
  . ./myread
  case "$ans" in
  none) startperl=": # use perl";;
  *) startperl="#!$ans"
   if $test 30 -lt `echo "$ans" | wc -c`; then
    $cat >&4 <<EOM

WARNING:  Some systems limit the #! command to 32 characters.
If you experience difficulty running Perl scripts with #!, try
installing Perl in a directory with a shorter pathname.

EOM
    fi ;;
  esac
  ;;
 *)
 startperl=": # use perl"
  ;;
 esac
 ;;
esac
echo "I'll use $startperl to start perl scripts."
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/startperl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strerror_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_strerror_r strerror_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads extern_C
?MAKE: -pick add $@ %<
?S:d_strerror_r:
?S: This variable conditionally defines the HAS_STRERROR_R symbol,
?S: which indicates to the C program that the strerror_r()
?S: routine is available.
```

```
?S:.
?S:strerror_r_proto:
?S: This variable encodes the prototype of strerror_r.
?S: It is zero if d_strerror_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_strerror_r
?S: is defined.
?S:.
?C:HAS_STRERROR_R:
?C: This symbol, if defined, indicates that the strerror_r routine
?C: is available to strerror
 re-entrantly.
?C:.
?C:STRERROR_R_PROTO:
?C: This symbol encodes the prototype of strerror_r.
?C: It is zero if d_strerror_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_strerror_r
?C: is defined.
?C:.
?H:#$d_strerror_r HAS_STRERROR_R /**/
?H:#define STRERROR_R_PROTO $strerror_r_proto /**/
?H:.
?T:try hdrs d_strerror_r_proto
: see if strerror_r exists
set strerror_r d_strerror_r
eval $inlibc
case "$d_strerror_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h define string.h"
 case "$d_strerror_r_proto:$usethreads" in
 ":define") d_strerror_r_proto=define
  set d_strerror_r_proto strerror_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_strerror_r_proto" in
 define)
 case "$strerror_r_proto" in
 "|0) try='int strerror_r(int, char*, size_t);'
 ./protochk "$extern_C $try" $hdrs && strerror_r_proto=I_IBW ;;
 esac
 case "$strerror_r_proto" in
 "|0) try='int strerror_r(int, char*, int);'
 ./protochk "$extern_C $try" $hdrs && strerror_r_proto=I_IBI
 ;;
 esac
 case "$strerror_r_proto" in
 "|0) try='char* strerror_r(int, char*, size_t);'
 ./protochk "$extern_C $try" $hdrs && strerror_r_proto=B_IBW ;;
```

```
 esac
 case "$strerror_r_proto" in
 "|0) d_strerror_r=undef
  strerror_r_proto=0
  echo "Disabling strerror_r, cannot determine prototype." >&4 ;;
 * ) case "$strerror_r_proto" in
  REENTRANT_PROTO*) ;;
  *) strerror_r_proto="REENTRANT_PROTO_$strerror_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "strerror_r has no prototype, not using it." >&4 ;;
  esac
  d_strerror_r=undef
  strerror_r_proto=0
  ;;
 esac
 ;;
*) strerror_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_strerror_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fdclose: Inlibc
?MAKE: -pick add $@ %<
?S:d_fdclose:
?S: This variable conditionally defines the HAS_FDCLOSE symbol, which
?S: indicates to the C program that the fdclose() routine is available.
?S:.
?C:HAS_FDCLOSE:
?C: This symbol, if defined, indicates that the fdclose routine is
?C: available to free a FILE structure without closing the underlying
?C: file descriptor.  This function appeared in FreeBSD 10.2.
?C:.
?H:#$d_fdclose HAS_FDCLOSE  /**/
?H:.
?LINT:set d_fdclose
: see if fdclose exists
set fdclose d_fdclose
```

```
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fdclose.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:uselargefiles \
 ccflags_uselargefiles \
 ldflags_uselargefiles \
 libswanted_uselargefiles: \
 Myread Oldconfig Setvar test lseeksize fpossize \
 fpostype Compile echo n c cat lseektype rm_try run \
 use64bitint use64bitall i_stdlib
?MAKE: -pick add $@ %<
?Y:TOP
?S:uselargefiles:
?S: This variable conditionally defines the USE_LARGE_FILES symbol,
?S: and indicates that large file interfaces should be used when
?S: available.
?S:.
?S:ccflags_uselargefiles:
?S: This variable contains the compiler flags needed by large file builds
?S: and added to ccflags by hints files.
?S:.
?S:ldflags_uselargefiles:
?S: This variable contains the loader flags needed by large file builds
?S: and added to ldflags by
 hints files.
?S:.
?S:libswanted_uselargefiles:
?S: This variable contains the libraries needed by large file builds
?S: and added to ldflags by hints files.  It is a space separated list
?S: of the library names without the "lib" prefix or any suffix, just
?S: like libswanted..
?S:.
?C:USE_LARGE_FILES:
?C: This symbol, if defined, indicates that large file support
?C: should be used when available.
?C:.
?H:?%<:#ifndef USE_LARGE_FILES
```

```
?H:?%<:#$uselargefiles USE_LARGE_FILES  /**/
?H:?%<:#endif
?H:.
?INIT:ccflags_uselargefiles=''
?INIT:ldflags_uselargefiles=''
?INIT:libswanted_uselargefiles=''
?T:yyy zzz
?F:!uselargefiles.cbu !try
?LINT:change lseeksize
?LINT:change fpossize
?LINT:extern uselfs
?LINT:use use64bitint
?LINT:use use64bitall
: Check for large file support
# Backward compatibility (uselfs is deprecated).
case "$uselfs" in
"$define"|true|[yY]*)
 cat <<EOM >&4

*** Configure -Duselfs is deprecated, using -Duselargefiles instead.
EOM
 uselargefiles="$define"
 ;;
esac

case "$lseeksize:$fpossize"
 in
8:8) cat <<EOM

You can have files larger than 2 gigabytes.
EOM
  val="$define" ;;
*)    case "$uselargefiles" in
  "$undef"|false|[nN]*) dflt='n' ;;
  *) dflt='y' ;;
  esac
  cat <<EOM

Perl can be built to understand large files (files larger than 2 gigabytes)
on some systems.  To do so, Configure can be run with -Duselargefiles.

If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
  rp='Try to understand large files, if available?'
  . ./myread
  case "$ans" in
  y|Y) val="$define" ;;
  *) val="$undef"  ;;
```

```
  esac
  ;;
esac
set uselargefiles
eval $setvar
: Look for a hint-file generated 'call-back-unit'.  If the
: user has specified that a large files perl is to be built,
: we may need to set or change some other defaults.
if $test -f uselargefiles.cbu; then
 echo "Your platform has some specific hints regarding large file builds, using them..."
 . ./uselargefiles.cbu
fi
case "$uselargefiles" in
"$define")
 if $test -f uselargefiles.cbu;
 then
  echo " "
  echo "Rechecking to see how big your file offsets are..." >&4
  $cat >try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
int main()
{
   printf("%d\n", (int)sizeof($lseektype));
   return(0);
}
EOCP
  set try
  if eval $compile_ok; then
   lseeksize=`$run ./try`
   $echo "Your file offsets are now $lseeksize bytes long."
  else
   dflt="$lseeksize"
   echo " "
   echo "(I can't seem to compile the test program.  Guessing...)"
   rp="What is the size of your file offsets (in bytes)?"
   . ./myread
   lseeksize="$ans"
  fi
  case "$fpostype" in
  *_t) zzz="$fpostype" ;;
  *)   zzz="fpos_t" ;;
  esac
  $echo $n "Rechecking the size of $zzz...$c" >&4
  $cat > try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
```

```
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() {
   printf("%d\n", (int)sizeof($fpostype));
   return(0);
}
EOCP
  set try
  if eval $compile_ok; then
   yyy=`$run ./try`
   dflt="$lseeksize"
   case "$yyy" in
   ") echo
 " "
    echo "(I can't execute the test program--guessing $fpossize.)" >&4
    ;;
   *) fpossize=$yyy
    echo " $fpossize bytes." >&4
    ;;
   esac
  else
   dflt="$fpossize"
   echo " "
   echo "(I can't compile the test program.  Guessing...)" >&4
   rp="What is the size of your file positions (in bytes)?"
   . ./myread
   fpossize="$ans"
  fi
  $rm_try
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/uselfs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
```

```
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:multiarch: osname
?MAKE: -pick add $@ %<
?S:multiarch:
?S: This variable conditionally defines the MULTIARCH symbol
?S: which signifies the presence of multiplatform files.
?S: This is normally set by hints files.
?S:.
?C:MULTIARCH:
?C: This symbol, if defined, signifies that the build
?C: process will produce some binary files that are going to be
?C: used in a cross-platform environment.  This is the case for
?C: example with the NeXT "fat" binaries that contain executables
?C: for
 several CPUs.
?C:.
?H:#$multiarch MULTIARCH  /**/
?H:.
: Check if is a multiplatform env
case "$osname" in
darwin) multiarch="$define" ;;
esac
case "$multiarch" in
"|[nN]*) multiarch="$undef" ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/a_dvisory/multiarch.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getsrvby.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getsbyname d_getsbyport: Inlibc
?MAKE: -pick add $@ %<
?S:d_getsbyname:
?S: This variable conditionally defines the HAS_GETSERVBYNAME
?S: symbol, which indicates to the C program that the
?S: getservbyname() routine is available to look up services
?S: by their name.
?S:.
?S:d_getsbyport:
```

```
?S: This variable conditionally defines the HAS_GETSERVBYPORT
?S: symbol, which indicates to the C program that the
?S: getservbyport() routine is available to look up services
?S: by their port.
?S:.
?C:HAS_GETSERVBYNAME:
?C: This symbol, if defined, indicates that the getservbyname()
?C: routine is available to look up services by their name.
?C:.
?C:HAS_GETSERVBYPORT:
?C: This symbol, if defined,
 indicates that the getservbyport()
?C: routine is available to look up services by their port.
?C:.
?H:#$d_getsbyname HAS_GETSERVBYNAME  /**/
?H:#$d_getsbyport HAS_GETSERVBYPORT  /**/
?H:.
?LINT:set d_getsbyname d_getsbyport
: Optional checks for getsbyname and getsbyport

@if d_getsbyname || HAS_GETSERVBYNAME
: see if getservbyname exists
set getservbyname d_getsbyname
eval $inlibc
@end

@if d_getsbyport || HAS_GETSERVBYPORT
: see if getservbyport exists
set getservbyport d_getsbyport
eval $inlibc
@end
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_getsrvby.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getmntent: Inlibc
?MAKE: -pick add $@ %<
?S:d_getmntent:
?S: This variable conditionally defines the HAS_GETMNTENT symbol, which
```

```
?S: indicates to the C program that the getmntent() routine is available
?S: to iterate through mounted files to get their mount info.
?S:.
?C:HAS_GETMNTENT:
?C: This symbol, if defined, indicates that the getmntent routine is
?C: available to iterate through mounted file systems to get their info.
?C:.
?H:#$d_getmntent HAS_GETMNTENT  /**/
?H:.
?LINT:set d_getmntent
: see if getmntent exists
set getmntent d_getmntent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_getmntent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setpgid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setpgid.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:41:49  ram
?RCS: patch61: reworded symbol comments
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:06:40  ram
?RCS: patch16: created
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setpgid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setpgid:
?S: This variable conditionally defines the HAS_SETPGID symbol if the
?S: setpgid(pid, gpid) function is
 available to set process group ID.
?S:.
?C:HAS_SETPGID:
?C: This symbol, if defined, indicates that the setpgid(pid, gpid)
```

```
?C: routine is available to set process group ID.
?C:.
?H:#$d_setpgid HAS_SETPGID /**/
?H:.
?LINT:set d_setpgid
: see if setpgid exists
set setpgid d_setpgid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setpgid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2006-2007, H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS:
?MAKE:d_dir_dd_fd: Compile cat rm_try Setvar i_dirent i_stdlib
?MAKE: -pick add $@ %<
?S:d_dir_dd_fd (d_dir_dd_fd.U):
?S: This variable conditionally defines the HAS_DIR_DD_FD symbol, which
?S: indicates that the DIR directory stream type contains a member
?S: variable called dd_fd.
?S:.
?C:HAS_DIR_DD_FD:
?C: This symbol, if defined, indicates that the the DIR* dirstream
?C: structure contains a member variable named dd_fd.
?C:.
?H:#$d_dir_dd_fd HAS_DIR_DD_FD  /**/
?H:.
?LINT:set d_dir_dd_fd
: Look for DIR.dd_fd
case "$i_dirent"
 in
"$define")
   echo "Checking to see if DIR has a dd_fd member variable" >&4
   $cat >try.c <<EOCP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <dirent.h>
```

```
int main() {
  DIR dir;
  dir.dd_fd = 1;
  return 0;
}
EOCP
  val=$undef
  set try
  if eval $compile; then
     echo "Yes, it does."
     val="$define"
  else
     echo "No, it does not."
     val="$undef"
  fi
  ;;
*)
  echo "You don't have a <dirent.h>, so not checking for dd_fd." >&4
  val="$undef"
  ;;
esac
set d_dir_dd_fd
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_dir_dd_fd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_safebcpy.U,v 3.0.1.4 1997/02/28 15:40:58 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_safebcpy.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  15:40:58  ram
?RCS: patch61: improved overlapping copy check
?RCS: patch61: comfort them if they have memmove
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.3  1995/07/25  13:58:40  ram
```

```
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.2  1995/01/11  15:29:23  ram
?RCS: patch45: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS:
 Revision 3.0.1.1  1994/05/06  14:49:03  ram
?RCS: patch23: ensure string is not optimized in read-only memory (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_safebcpy: cat d_bcopy Compile rm_try run \
 d_memmove i_memory i_stdlib i_string i_unistd Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_safebcpy:
?S: This variable conditionally defines the HAS_SAFE_BCOPY symbol if
?S: the bcopy() routine can do overlapping copies.  Normally, you
?S: should probably use memmove().
?S:.
?C:HAS_SAFE_BCOPY (SAFE_BCOPY):
?C: This symbol, if defined, indicates that the bcopy routine is available
?C: to copy potentially overlapping memory blocks. Normally, you should
?C: probably use memmove() or memcpy(). If neither is defined, roll your
?C: own version.
?C:.
?H:#$d_safebcpy HAS_SAFE_BCOPY /**/
?H:.
?F:!try
?LINT: set d_safebcpy
: can bcopy handle overlapping blocks?
echo " "
?X: assume the worst.
val="$undef"
case "$d_memmove" in
"$define")
 echo "I'll use memmove() instead of bcopy() for overlapping copies." ;;
*) case "$d_bcopy" in
 "$define")
  echo "Checking to see if bcopy() can do overlapping copies..." >&4
  $cat >try.c <<EOCP
#$i_memory I_MEMORY
#$i_stdlib I_STDLIB
#$i_string I_STRING
#$i_unistd I_UNISTD
EOCP
 $cat >>try.c <<'EOCP'
#include <stdio.h>
```

```
#ifdef I_MEMORY
#  include <memory.h>
#endif
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#ifdef I_STRING
#  include <string.h>
#else
#  include <strings.h>
#endif
#ifdef I_UNISTD
#  include <unistd.h>  /* Needed for NetBSD */
#endif
int main()
{
char buf[128], abc[128];
char *b;
int len;
int off;
int align;

/* Copy "abcde..." string to char abc[] so that gcc doesn't
  try to store the string in read-only memory. */
bcopy("abcdefghijklmnopqrstuvwxyz0123456789", abc, 36);

for (align = 7; align >= 0; align--) {
 for (len = 36; len; len--) {
  b = buf+align;
  bcopy(abc, b, len);
  for (off = 1; off <= len; off++) {
   bcopy(b, b+off, len);
   bcopy(b+off,
 b, len);
   if (bcmp(b, abc, len))
    exit(1);
  }
 }
}
exit(0);
}
EOCP
  set try
  if eval $compile_ok; then
   if $run ./try 2>/dev/null; then
    echo "Yes, it can."
    val="$define"
   else
```

```
    echo "It can't, sorry."
   fi
  else
   echo "(I can't compile the test program, so we'll assume not...)"
  fi
  ;;
 esac
 $rm_try
 ;;
esac
set d_safebcpy
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_safebcpy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strtod.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strtod.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:46:36  ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_strtod: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtod:
?S: This variable conditionally defines the HAS_STRTOD symbol, which
?S: indicates to the C program that the strtod() routine is available
?S: to provide better numeric string conversion than atof().
?S:.
?C:HAS_STRTOD (STRTOD):
?C: This symbol, if defined,
 indicates that the strtod routine is
?C: available to provide better numeric string conversion than atof().
?C:.
?H:#$d_strtod HAS_STRTOD /**/
?H:.
```

```
?LINT:set d_strtod
: see if strtod exists
set strtod d_strtod
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strtod.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_usleep.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_usleep.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:53  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_usleep: Inlibc
?MAKE: -pick add $@ %<
?S:d_usleep:
?S: This variable conditionally defines HAS_USLEEP if usleep() is
?S: available to do high granularity sleeps.
?S:.
?C:HAS_USLEEP (USLEEP):
?C: This symbol, if defined, indicates that the usleep routine is
?C: available to let the process sleep on a sub-second accuracy.
?C:.
?H:#$d_usleep
 HAS_USLEEP  /**/
?H:.
?LINT:set d_usleep
: see if usleep exists
set usleep d_usleep
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_usleep.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_poll.U,v $
```

```
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_poll: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_poll:
?S: This variable conditionally defines the I_POLL symbol, and indicates
?S: whether a C program should include <poll.h>.
?S:.
?C:I_POLL:
?C: This symbol, if defined, indicates that <poll.h> exists and
?C: should be included. (see also HAS_POLL)
?C:.
?H:#$i_poll I_POLL  /**/
?H:.
?LINT:set i_poll
: see if this is a poll.h system
set poll.h i_poll
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_poll.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_shm.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_shm: test d_shmctl d_shmget d_shmat d_shmdt Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_shm:
?S: This variable conditionally defines the HAS_SHM symbol, which
?S: indicates that the entire shm*(2) library is present.
?S:.
```

```
?C:HAS_SHM:
?C: This symbol, if defined, indicates that the entire shm*(2) library is
?C: supported.
?C:.
?H:#$d_shm HAS_SHM  /**/
?H:.
?T:h_shm
?LINT:set d_shm
:
 see how much of the 'shm*(2)' library is present.
h_shm=true
echo " "
case "$d_shmctl$d_shmget$d_shmat$d_shmdt" in
*"$undef"*) h_shm=false;;
esac
: we could also check for sys/ipc.h ...
if $h_shm && $test `./findhdr sys/shm.h`; then
 echo "You have the full shm*(2) library." >&4
 val="$define"
else
 echo "You don't have the full shm*(2) library." >&4
 val="$undef"
fi
set d_shm
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_shm.U
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```
?RCS: $Id: d_semctl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_semctl.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_semctl: Inlibc
?MAKE: -pick add $@ %<
?S:d_semctl:
```

```
?S: This variable conditionally defines the HAS_SEMCTL symbol, which
?S: indicates to the C program that the semctl() routine is available.
?S:.
?C:HAS_SEMCTL:
?C: This symbol, if defined, indicates that the semctl() routine is
?C: available to perform semaphore control operations.
?C:.
?H:#$d_semctl
 HAS_SEMCTL /**/
?H:.
?LINT:set d_semctl
: see if semctl exists
set semctl d_semctl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_semctl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:ivdformat uvuformat uvoformat uvxformat uvXUformat \
 nvEUformat nvFUformat nvGUformat \
 nveformat nvfformat nvgformat: \
 ivsize longsize intsize shortsize \
 sPRId64 sPRIu64 sPRIo64 sPRIx64 sPRIXU64 \
 uselongdouble d_longdbl usequadmath d_PRIgldbl \
 sPRIEUldbl sPRIFUldbl sPRIGUldbl sPRIeldbl sPRIfldbl sPRIgldbl \
 test echo
?MAKE: -pick add $@ %<
?S:ivdformat:
?S: This variable contains the format string used for printing
?S: a Perl IV as a signed decimal integer.
?S:.
?S:uvuformat:
?S: This variable contains the format string used for printing
?S: a Perl UV as an unsigned decimal integer.
?S:.
?S:uvoformat:
?S: This variable contains the format string used for printing
?S: a Perl UV as an unsigned
```

octal integer.
?S:.
?S:uvxformat:
?S: This variable contains the format string used for printing
?S: a Perl UV as an unsigned hexadecimal integer in lowercase abcdef.
?S:.
?S:uvXUformat:
?S: This variable contains the format string used for printing
?S: a Perl UV as an unsigned hexadecimal integer in uppercase ABCDEF.
?S:.
?S:nveformat:
?S: This variable contains the format string used for printing
?S: a Perl NV using %e-ish floating point format.
?S:.
?S:nvfformat:
?S: This variable contains the format string used for printing
?S: a Perl NV using %f-ish floating point format.
?S:.
?S:nvgformat:
?S: This variable contains the format string used for printing
?S: a Perl NV using %g-ish floating point format.
?S:.
?S:nvEUformat:
?S: This variable contains the format string used for printing
?S: a Perl NV using %E-ish floating point format.
?S:.
?S:nvFUformat:
?S: This variable contains the format string used for printing
?S: a Perl NV using %F-ish floating point format.
?S:.
?S:nvGUformat:
?S: This
variable contains the format string used for printing
?S: a Perl NV using %G-ish floating point format.
?S:.
?C:IVdf:
?C: This symbol defines the format string used for printing a Perl IV
?C: as a signed decimal integer.
?C:.
?C:UVuf:
?C: This symbol defines the format string used for printing a Perl UV
?C: as an unsigned decimal integer.
?C:.
?C:UVof:
?C: This symbol defines the format string used for printing a Perl UV
?C: as an unsigned octal integer.
?C:.
?C:UVxf:

```
?C: This symbol defines the format string used for printing a Perl UV
?C: as an unsigned hexadecimal integer in lowercase abcdef.
?C:.
?C:UVXf:
?C: This symbol defines the format string used for printing a Perl UV
?C: as an unsigned hexadecimal integer in uppercase ABCDEF.
?C:.
?C:NVef:
?C: This symbol defines the format string used for printing a Perl NV
?C: using %e-ish floating point format.
?C:.
?C:NVff:
?C: This symbol defines the format string used for printing a Perl NV
?C: using %f-ish floating point
 format.
?C:.
?C:NVgf:
?C: This symbol defines the format string used for printing a Perl NV
?C: using %g-ish floating point format.
?C:.
?C:NVEf:
?C: This symbol defines the format string used for printing a Perl NV
?C: using %E-ish floating point format.
?C:.
?C:NVFf:
?C: This symbol defines the format string used for printing a Perl NV
?C: using %F-ish floating point format.
?C:.
?C:NVGf:
?C: This symbol defines the format string used for printing a Perl NV
?C: using %G-ish floating point format.
?C:.
?H:#define IVdf  $ivdformat  /**/
?H:#define UVuf  $uvuformat  /**/
?H:#define UVof  $uvoformat  /**/
?H:#define UVxf  $uvxformat  /**/
?H:#define UVXf  $uvXUformat  /**/
?H:#define NVef  $nveformat  /**/
?H:#define NVff  $nvfformat  /**/
?H:#define NVgf  $nvgformat  /**/
?H:#define NVEf  $nvEUformat  /**/
?H:#define NVFf  $nvFUformat  /**/
?H:#define NVGf  $nvGUformat  /**/
?H:.
: Check format strings for internal types
echo " "
$echo "Checking the format strings to be used for Perl's
```

```
 internal types..." >&4

if $test X"$ivsize" = X8; then
 ivdformat="$sPRId64"
 uvuformat="$sPRIu64"
 uvoformat="$sPRIo64"
 uvxformat="$sPRIx64"
 uvXUformat="$sPRIXU64"
else
 if $test X"$ivsize" = X"$longsize"; then
  ivdformat="'ld'"
  uvuformat="'lu'"
  uvoformat="'lo'"
  uvxformat="'lx'"
  uvXUformat="'lX'"
 else
  if $test X"$ivsize" = X"$intsize"; then
   ivdformat="'d'"
   uvuformat="'u'"
   uvoformat="'o'"
   uvxformat="'x'"
   uvXUformat="'X'"
  else
   : far out
   if $test X"$ivsize" = X"$shortsize"; then
    ivdformat="'hd'"
    uvuformat="'hu'"
    uvoformat="'ho'"
    uvxformat="'hx'"
    uvXUformat="'hX'"
   fi
  fi
 fi
fi

if $test X"$usequadmath" = X"$define"; then
   nveformat="'Qe'"
   nvfformat="'Qf'"
   nvgformat="'Qg'"
   nvEUformat="'QE'"
   nvFUformat="'QF'"
   nvGUformat="'QG'"
else
   if $test X"$uselongdouble" = X"$define" -a X"$d_longdbl" = X"$define" -a X"$d_PRIgldbl" = X"$define"; then
 nveformat="$sPRIeldbl"
 nvfformat="$sPRIfldbl"
 nvgformat="$sPRIgldbl"
 nvEUformat="$sPRIEUldbl"
```

```
 nvFUformat="$sPRIFUldbl"
 nvGUformat="$sPRIGUldbl"
    else
 nveformat='"e"'
 nvfformat='"f"'
 nvgformat='"g"'
 nvEUformat='"E"'
 nvFUformat='"F"'
 nvGUformat='"G"'
   fi
fi

case "$ivdformat" in
") echo "$0: Fatal: failed to find format strings, cannot continue." >&4
   exit 1
   ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/perlxvf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_drand48_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_drand48_r drand48_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_stdlib extern_C
?MAKE: -pick add $@ %<
?S:d_drand48_r:
?S: This variable conditionally defines the HAS_DRAND48_R symbol,
?S: which indicates to the C program that the drand48_r()
?S: routine is available.
?S:.
?S:drand48_r_proto:
?S: This variable encodes the prototype of drand48_r.
?S: It is zero if d_drand48_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_drand48_r
?S: is defined.
?S:.
?C:HAS_DRAND48_R:
?C: This symbol, if defined, indicates that the drand48_r routine
?C: is available to drand48 re-entrantly.
```

```
?C:.
?C:DRAND48_R_PROTO:
?C: This
 symbol encodes the prototype of drand48_r.
?C: It is zero if d_drand48_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_drand48_r
?C: is defined.
?C:.
?H:#$d_drand48_r HAS_DRAND48_R /**/
?H:#define DRAND48_R_PROTO $drand48_r_proto /**/
?H:.
?T:try hdrs d_drand48_r_proto
: see if drand48_r exists
set drand48_r d_drand48_r
eval $inlibc
case "$d_drand48_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_stdlib stdlib.h"
 case "$d_drand48_r_proto:$usethreads" in
 ":define") d_drand48_r_proto=define
  set d_drand48_r_proto drand48_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_drand48_r_proto" in
 define)
 case "$drand48_r_proto" in
 "|0) try='int drand48_r(struct drand48_data*, double*);'
 ./protochk "$extern_C $try" $hdrs && drand48_r_proto=I_ST ;;
 esac
 case "$drand48_r_proto" in
 "|0) d_drand48_r=undef
  drand48_r_proto=0
  echo "Disabling drand48_r, cannot determine prototype." >&4 ;;
 * ) case
 "$drand48_r_proto" in
  REENTRANT_PROTO*) ;;
  *) drand48_r_proto="REENTRANT_PROTO_$drand48_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "drand48_r has no prototype, not using it." >&4 ;;
  esac
  d_drand48_r=undef
  drand48_r_proto=0
  ;;
```

```
 esac
 ;;
*) drand48_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_drand48_r.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_volatile.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:08:49  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0.1.1  1993/09/09  11:49:51  ram
?RCS: patch9: volatile definition was swapped over with undef
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_volatile: cat +cc +ccflags rm_try Setvar
?MAKE: -pick add $@ %<
?S:d_volatile:
?S: This variable conditionally defines the HASVOLATILE symbol, which
?S: indicates
 to the C program that this C compiler knows about the
?S: volatile declaration.
?S:.
?C:HASVOLATILE ~ %<:
?C: This symbol, if defined, indicates that this C compiler knows about
?C: the volatile declaration.
?C:.
?H:?%<:#$d_volatile HASVOLATILE /**/
?H:?%<:#ifndef HASVOLATILE
?H:?%<:#define volatile
?H:?%<:#endif
?H:.
```

```
?W:%<:volatile
?LINT:set d_volatile
?LINT:known volatile
: check for volatile keyword
echo " "
echo 'Checking to see if your C compiler knows about "volatile"...' >&4
$cat >try.c <<'EOCP'
int main()
{
?X:
?X: The following seven lines added by Bill Campbell <billc@sierra.com>
?X: detect that MIPS compilers do not handle volatile in all situations.
?X:
 typedef struct _goo_struct goo_struct;
 goo_struct * volatile goo = ((goo_struct *)0);
 struct _goo_struct {
  long long_int;
  int reg_int;
  char char_var;
 };
 typedef unsigned short foo_t;
 char *volatile foo;
 volatile int bar;
 volatile foo_t blech;
 foo = foo;
}
EOCP
if $cc -c $ccflags try.c >/dev/null
 2>&1 ; then
 val="$define"
 echo "Yup, it does."
else
 val="$undef"
 echo "Nope, it doesn't."
fi
set d_volatile
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_volatile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_readdir64_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_readdir64_r readdir64_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_dirent extern_C
?MAKE: -pick add $@ %<
?S:d_readdir64_r:
?S: This variable conditionally defines the HAS_READDIR64_R symbol,
?S: which indicates to the C program that the readdir64_r()
?S: routine is available.
?S:.
?S:readdir64_r_proto:
?S: This variable encodes the prototype of readdir64_r.
?S: It is zero if d_readdir64_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_readdir64_r
?S: is defined.
?S:.
?C:HAS_READDIR64_R:
?C: This symbol, if defined, indicates that the readdir64_r routine
?C: is
 available to readdir64 re-entrantly.
?C:.
?C:READDIR64_R_PROTO:
?C: This symbol encodes the prototype of readdir64_r.
?C: It is zero if d_readdir64_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_readdir64_r
?C: is defined.
?C:.
?H:#$d_readdir64_r HAS_READDIR64_R /**/
?H:#define READDIR64_R_PROTO $readdir64_r_proto /**/
?H:.
?T:try hdrs d_readdir64_r_proto
: see if readdir64_r exists
set readdir64_r d_readdir64_r
eval $inlibc
case "$d_readdir64_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_dirent dirent.h"
 case "$d_readdir64_r_proto:$usethreads" in
 ":define") d_readdir64_r_proto=define
  set d_readdir64_r_proto readdir64_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_readdir64_r_proto" in
 define)
 case "$readdir64_r_proto" in
```

```
 "|0) try='int readdir64_r(DIR*, struct dirent64*, struct dirent64**);'
 ./protochk "$extern_C $try" $hdrs && readdir64_r_proto=I_TSR ;;
 esac
 case "$readdir64_r_proto" in
 "|0) try='int readdir64_r(DIR*,
 struct dirent64*);'
 ./protochk "$extern_C $try" $hdrs && readdir64_r_proto=I_TS ;;
 esac
 case "$readdir64_r_proto" in
 "|0) d_readdir64_r=undef
  readdir64_r_proto=0
  echo "Disabling readdir64_r, cannot determine prototype." >&4 ;;
 * ) case "$readdir64_r_proto" in
  REENTRANT_PROTO*) ;;
  *) readdir64_r_proto="REENTRANT_PROTO_$readdir64_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "readdir64_r has no prototype, not using it." >&4 ;;
  esac
  d_readdir64_r=undef
  readdir64_r_proto=0
  ;;
 esac
 ;;
*) readdir64_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_readdir64_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2015 Jarkko Hietaniemi, H.Merijn Brand
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:longdblinfbytes longdblnanbytes doubleinfbytes doublenanbytes: Inlibc \
 cat Compile run rm_try Setvar echo d_longdbl \
 doublekind doublesize longdblkind longdblsize
?MAKE: -pick add $@ %<
?S:longdblinfbytes:
```

```
?S: This variable contains comma-separated list of hexadecimal bytes
?S: for the long double precision infinity.
?S:.
?S:longdblnanbytes:
?S: This variable contains comma-separated list of hexadecimal bytes
?S: for the long double precision not-a-number.
?S:.
?S:doubleinfbytes:
?S: This variable contains comma-separated list of hexadecimal bytes
?S: for the double precision infinity.
?S:.
?S:doublenanbytes:
?S: This variable contains comma-separated list of hexadecimal bytes
?S: for
 the double precision not-a-number.
?S:.
?C:DOUBLEINFBYTES:
?C: This symbol, if defined, is a comma-separated list of
?C: hexadecimal bytes for the double precision infinity.
?C:.
?C:DOUBLENANBYTES:
?C: This symbol, if defined, is a comma-separated list of
?C: hexadecimal bytes (0xHH) for the double precision not-a-number.
?C:.
?C:LONGDBLINFBYTES:
?C: This symbol, if defined, is a comma-separated list of
?C: hexadecimal bytes for the long double precision infinity.
?C:.
?C:LONGDBLNANBYTES:
?C: This symbol, if defined, is a comma-separated list of
?C: hexadecimal bytes (0xHH) for the long double precision not-a-number.
?C:.
?H:#define DOUBLEINFBYTES  $doubleinfbytes  /**/
?H:#define DOUBLENANBYTES  $doublenanbytes  /**/
?H:#define LONGDBLINFBYTES $longdblinfbytes  /**/
?H:#define LONGDBLNANBYTES $longdblnanbytes  /**/
?H:.
?F:!try
: Check what kind of inf/nan your system has
$echo "Checking the kind of infinities and nans you have..." >&4
$echo "(The following tests may crash.  That's
 okay.)" >&4
$cat >try.c <<EOP
#define DOUBLESIZE $doublesize
#$d_longdbl HAS_LONG_DOUBLE
#ifdef HAS_LONG_DOUBLE
#define LONG_DOUBLESIZE $longdblsize
#define LONG_DOUBLEKIND $longdblkind
```

```
#endif
#include <math.h>
#include <string.h>
#include <stdio.h>
/* Note that whether the sign bit is on or off
* for NaN depends on the CPU/FPU, and possibly
* can be affected by the build toolchain.
*
* For example for older MIPS and HP-PA 2.0 the quiet NaN is:
* 0x7f, 0xf7, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff
* 0x7f, 0xf4, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00
* (respectively) as opposed to the more usual
* 0x7f, 0xf8, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00
*
* Pre-IEEE-754 floating point format do not even have inf/nan support
* at all.  They might have a "max" value (DBL_MAX), which may be deadly
* to even mention, causing immediate SIGFPE or equivalent: this is
* the case with VAX floating point, for example.
*/
static void bytes(void *v, unsigned int n) {
 unsigned char *p = (unsigned
 char *)v;
 int i;
 for (i = 0; i < n; i++) {
   printf("0x%02x%s", p[i], i < n - 1 ? ", " : "\n");
 }
}
int main(int argc, char *argv[]) {
  /* We cannot use 1.0/0.0 and 0.0/0.0 (with L suffixes for long double)
   * because some compilers are 'smart' and not only warn but refuse to
   * compile such 'illegal' values. */
  double dinf = exp(1e9);
  double dnan = sqrt(-1.0);
#ifdef HAS_LONG_DOUBLE
  long double ldinf = (long double)exp(1e9);
  long double ldnan = (long double)sqrt(-1.0);
# if LONG_DOUBLEKIND == 3 || LONG_DOUBLEKIND == 4
/* the 80-bit long doubles might have garbage in their excess bytes */
   memset((char *)&ldinf + 10, '\0', LONG_DOUBLESIZE - 10);
   memset((char *)&ldnan + 10, '\0', LONG_DOUBLESIZE - 10);
# endif
#endif
 if (argc == 2) {
   switch (argv[1][0]) {
   case '1': bytes(&dinf, sizeof(dinf)); break;
   case '2': bytes(&dnan, sizeof(dnan)); break;
#ifdef HAS_LONG_DOUBLE
   case '3': bytes(&ldinf, sizeof(ldinf)); break;
```

```
   case '4': bytes(&ldnan,
 sizeof(ldnan)); break;
#endif
   }
 }
 return 0;
}
EOP
set try
if eval $compile; then
   doubleinfbytes=`$run ./try 1`
   doublenanbytes=`$run ./try 2`
   case "$d_longdbl" in
   $define)
     longdblinfbytes=`$run ./try 3`
     longdblnanbytes=`$run ./try 4`
     ;;
   esac
else
   # Defaults in case the above test program failed.
   case "$doublekind" in
   1) # IEEE 754 32-bit LE
      doubleinfbytes='0x00, 0x00, 0xf0, 0x7f'
      doublenanbytes='0x00, 0x00, 0xf8, 0x7f'
      ;;
   2) # IEEE 754 32-bit BE
      doubleinfbytes='0x7f, 0xf0, 0x00, 0x00'
      doublenanbytes='0x7f, 0xf8, 0x00, 0x00'
      ;;
   3) # IEEE 754 64-bit LE
      doubleinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf0, 0x7f'
      doublenanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf8, 0x7f'
      ;;
   4) # IEEE 754 64-bit BE
      doubleinfbytes='0x7f, 0xf0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00'
      doublenanbytes='0x7f, 0xf8, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00'

 ;;
   5) # IEEE 754 128-bit LE
      doubleinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf0,
0x7f'
      doublenanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf8,
0x7f'
      ;;
   6) # IEEE 754 128-bit BE
      doubleinfbytes='0x7f, 0xf0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
      doublenanbytes='0x7f, 0xf8, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
```

```
0x00'
      ;;
   7) # IEEE 754 64-bit mixed: 32-bit LEs in BE
      doubleinfbytes='0x00, 0x00, 0xf0, 0x7f, 0x00, 0x00, 0x00, 0x00'
      doublenanbytes='0x00, 0x00, 0xf8, 0x7f, 0x00, 0x00, 0x00, 0x00'
      ;;
   8) # IEEE 754 64-bit mixed: 32-bit BEs in LE
      doubleinfbytes='0x00, 0x00, 0x00, 0x00, 0x7f, 0xf0, 0x00, 0x00'
      doublenanbytes='0x00, 0x00, 0x00, 0x00, 0x7f, 0xf8, 0x00, 0x00'
      ;;
   9|10|11|12|13|14) # VAX/Cray/IBM floating
 point formats, no inf/nan.
      doubleinfbytes=$undef
      doublenanbytes=$undef
      ;;
   *) # No idea.
      doubleinfbytes=$undef
      doublenanbytes=$undef
      ;;
   esac
   case "$longdblkind" in
   1) # IEEE 754 128-bit LE
      longdblinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xff,
0x7f'
      longdblnanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x80, 0xff,
0x7f'
      ;;
   2) # IEEE 754 128-bit BE
      longdblinfbytes='0x7f, 0xff, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
      longdblnanbytes='0x7f, 0xff, 0x80, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
      ;;
   3) # IEEE 754 80-bit LE, 12 or 16 bytes (x86)
      case "$longdblsize" in
      12) # x86 32-bit (96 bits, or 4 x 32, or 12 x 8)
         longdblinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x80, 0xff, 0x7f,
 0x00, 0x00'
         longdblnanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xc0, 0xff, 0x7f, 0x00, 0x00'
         ;;
      16) # x86_64
         longdblinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x80, 0xff, 0x7f, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
         longdblnanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xc0, 0xff, 0x7f, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
         ;;
      *)  # No idea.
         longdblinfbytes=$undef
```

```
        longdblnanbytes=$undef
      ;;
      esac
      ;;
    4) # IEEE 754 80-bit BE, 12 or 16 bytes
      case "$longdblsize" in
      12) # 32-bit system
        longdblinfbytes='0x7f, 0xff, 0x80, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00'
        longdblnanbytes='0x7f, 0xff, 0xc0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00'
        ;;
      16) # 64-bit system
        longdblinfbytes='0x7f, 0xff, 0x80, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
         longdblnanbytes='0x7f, 0xff, 0xc0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
        ;;
      *)  # No idea.
        longdblinfbytes=$undef
        longdblnanbytes=$undef
      ;;
      esac
      ;;
    5) # 128-bit LE-LE "double double"
      longdblinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf0,
0x7f'
      longdblnanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf8,
0x7f'
      ;;
    6) # 128-bit BE-BE "double double"
      longdblinfbytes='0x7f, 0xf0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
      longdblnanbytes='0x7f, 0xf8, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
      ;;
    7) # 128-bit LE-BE "double double"
      longdblinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf0, 0x7f, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'

      longdblnanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf8, 0x7f, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
      ;;
    8) # 128-bit BE-LE "double double"
      longdblinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x7f, 0xf0, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
      longdblnanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x7f, 0xf8, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
      ;;
    9|10|11|12|13|14) # VAX/Cray/IBM floating point formats, no inf/nan.
```

```
    longdblinfbytes=$undef
    longdblnanbytes=$undef
    ;;
  *) # No idea.
    longdblinfbytes=$undef
    longdblnanbytes=$undef
    ;;
  esac
fi
# In case the program crashed the values are empty, turn them undef.
case "$doubleinfbytes" in
") doubleinfbytes=$undef ;;
esac
case "$doublenanbytes" in
") doublenanbytes=$undef ;;
esac
case "$longdblinfbytes" in
") longdblinfbytes=$undef ;;
esac
case "$longdblnanbytes" in
") longdblnanbytes=$undef ;;
esac
$rm_try
```

Found in path(s):
*
 /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/infnan.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Compile.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS:
?X:
?X: This unit is just a quick shorthand for the compile command
?X: to be used in all the other metaconfig units.
?X:
?MAKE:Compile: +cc +optimize +ccflags +ldflags +libs test
?MAKE: -pick wipe $@ %<
?LINT:extern usedevel maintloc
?LINT:define compile compile_ok
?V:compile compile_ok mc_file
?S:compile:
```

```
?S: This shell variable is used internally by Configure to provide
?S: a convenient shorthand for the typical compile command, namely
?S: $cc $optimize $ccflags $ldflags -o $1 $1.c $libs > /dev/null 2>&1
?S: Note that the output filename does _not_ include the _exe
?S: extension.  Instead we assume that the linker will be
?S: "helpful" and automatically appending the correct suffix.
?S: OS/2
 users will apparently need to supply the -Zexe flag to
?S: get this behavior.
?S:
?S: To use this variable, say something like:
?S:  echo 'int main() { exit(0); }' > try.c
?S:  set try
?S:  if eval $compile; then
?S:   echo "success"   # and do whatever . . .
?S:  else
?S:   echo "failure"   # and do whatever . . .
?S:  fi
?S: To add extra flags cc flags (e.g. -DWHATEVER) just put them
?S: in $*, e.g.
?S:  set try -DTRY_THIS_FLAG
?S:.
?S:compile_ok:
?S: This shell variable is used internally by Configure to provide
?S: a convenient shorthand for the typical compile command that you
?S: expect to work ok.  It is the same as $compile, except we
?S: deliberately let the user see any error messages.
?S:.
: define a shorthand compile call
compile='
mc_file=$1;
shift;
case "$usedevel" in $define|true|[yY]*) if $test ! -f "${mc_file}.c"; then
echo "Internal Configure script bug - compiler test file ${mc_file}.c is missing. Please report this to <$maintloc>"
>&4;
exit 1;
fi;
esac;
$cc
 -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs > /dev/null 2>&1;'
: define a shorthand compile call for compilations that should be ok.
compile_ok='
mc_file=$1;
shift;
$cc -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs > /dev/null 2>&1;'

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
```

5.36.0/U/compline/Compile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_semop.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_semop.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_semop: Inlibc
?MAKE: -pick add $@ %<
?S:d_semop:
?S: This variable conditionally defines the HAS_SEMOP symbol, which
?S: indicates to the C program that the semop() routine is available.
?S:.
?C:HAS_SEMOP:
?C: This symbol, if defined, indicates that the semop() routine is
?C: available to execute semaphore operations.
?C:.
?H:#$d_semop
 HAS_SEMOP  /**/
?H:.
?LINT:set d_semop
: see if semop exists
set semop d_semop
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_semop.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_llrint: Inlibc
?MAKE: -pick add $@ %<
?S:d_llrint:
?S: This variable conditionally defines the HAS_LLRINT symbol, which
?S: indicates to the C program that the llrint() routine is available
```

```
?S: to return the long long value closest to a double (according
?S: to the current rounding mode).
?S:.
?C:HAS_LLRINT:
?C: This symbol, if defined, indicates that the llrint routine is
?C: available to return the long long value closest to a double
?C: (according to the current rounding mode).
?C:.
?H:#$d_llrint HAS_LLRINT  /**/
?H:.
?LINT:set d_llrint
: see if llrint exists
set llrint d_llrint
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_llrint.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_dbm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_dbm.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:48:20  ram
?RCS: patch61: added I_RPCSVC_DBM check
?RCS:
?RCS: Revision 3.0.1.1  1995/05/12  12:16:05  ram
?RCS: patch54: made more robust by checking both header and lib (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_dbm i_rpcsvcdbm: Inhdr Inlibc Setvar
?MAKE: -pick add $@ %<
?S:i_dbm (d_odbm):
?S: This variable conditionally defines
 the I_DBM symbol, which
?S: indicates to the C program that <dbm.h> exists and should
?S: be included.
?S:.
```

```
?S:i_rpcsvcdbm:
?S: This variable conditionally defines the I_RPCSVC_DBM symbol, which
?S: indicates to the C program that <rpcsvc/dbm.h> exists and should
?S: be included.  Some System V systems might need this instead of <dbm.h>.
?S:.
?C:I_DBM (HAS_ODBM ODBM):
?C: This symbol, if defined, indicates that <dbm.h> exists and should
?C: be included.
?C:.
?C:I_RPCSVC_DBM:
?C: This symbol, if defined, indicates that <rpcsvc/dbm.h> exists and
?C: should be included.
?C:.
?H:#$i_dbm I_DBM /**/
?H:#$i_rpcsvcdbm I_RPCSVC_DBM /**/
?H:.
?T:d_dbmclose
?LINT:set i_dbm i_rpcsvcdbm
: see if dbm.h is available
?X: We might just have the header, not the library.
?X: We look for dbmclose() rather than dbminit() because
?X: some versions of SCO Unix have -ldbm, but are missing dbmclose(). -- ADO
?X: Some System V systems have <rpcsvc/dbm.h> instead of <dbm.h>.
: see if dbmclose exists
set dbmclose
 d_dbmclose
eval $inlibc

case "$d_dbmclose" in
$define)
 set dbm.h i_dbm
 eval $inhdr
 case "$i_dbm" in
 $define)
  val="$undef"
  set i_rpcsvcdbm
  eval $setvar
  ;;
 *) set rpcsvc/dbm.h i_rpcsvcdbm
  eval $inhdr
  ;;
 esac
 ;;
*) echo "We won't be including <dbm.h>"
 val="$undef"
 set i_dbm
 eval $setvar
 val="$undef"
```

```
 set i_rpcsvcdbm
 eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_dbm.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: yacc.U,v $
?RCS: Revision 3.0.1.1  1994/05/13  15:28:48  ram
?RCS: patch27: added byacc as another alternative (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:10:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:yacc yaccflags: Guess Myread Loc Oldconfig byacc bison cat test
?MAKE: -pick add $@ %<
?S:yacc:
?S: This variable holds the name of the compiler compiler we
?S: want to use in the Makefile. It can be yacc, byacc, or bison -y.
?S:.
?S:yaccflags:
?S: This variable contains any
 additional yacc flags desired by the
?S: user.  It is up to the Makefile to use this.
?S:.
?T:comp
: determine compiler compiler
echo " "
comp='yacc'
if $test -f "$byacc$_exe"; then
 comp="byacc or $comp"
fi
if $test -f "$bison$_exe"; then
 comp="$comp or bison -y"
fi
```

```
case "$yacc" in
")
 yacc=`./loc yacc yacc $pth`
 if $test -f "$yacc$_exe"; then
  dflt='yacc'
 elif $test -f "$byacc$_exe"; then
  dflt='byacc'
 elif $test -f "$bison$_exe"; then
  dflt='bison'
 else
  dflt=''
 fi
 ;;
*) dflt="$yacc";;
esac
rp="Which compiler compiler ($comp) shall I use?"
. ./myread
yacc="$ans"
case "$yacc" in
*bis*)
 case "$yacc" in
 *-y*) ;;
 *)
  yacc="$yacc -y"
  echo "(Adding -y option to bison to get yacc-compatible behaviour.)"
  ;;
 esac
 ;;
esac

@if yaccflags
: see if we need extra yacc flags
dflt="$yaccflags"
case "$dflt" in
") dflt=none;;
esac
$cat <<EOH

Your yacc program may need extra flags to normally process the parser sources.
Do NOT specify any -d or -v flags here, since those are
 explicitly known
by the various Makefiles. However, if your machine has strange/undocumented
options (like -Sr# on SCO to specify the maximum number of grammar rules), then
please add them here.  To use no flags, specify the word "none".

EOH
rp="Any additional yacc flags?"
. ./myread
```

```
case "$ans" in
none) yaccflags="";;
*) yaccflags="$ans";;
esac

@end
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/yacc.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysun.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit looks wether <inttypes.h> is available or not
?X:
?MAKE:i_inttypes: Inhdr
?MAKE: -pick add $@ %<
?S:i_inttypes:
?S: This variable conditionally defines I_INTTYPES, which indicates
?S: to the C program that it should include <inttypes.h> to get
?S: format conversions of integer types.
?S:.
?C:I_INTTYPES:
?C: This symbol, if defined, indicates to the C program that it should
?C: include
 <inttypes.h> to get format conversions of integer types.
?C:.
?H:#$i_inttypes I_INTTYPES  /**/
?H:.
?LINT:set i_inttypes
: see if this is a inttypes.h system
set inttypes.h i_inttypes
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_inttypes.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: perlxv.U,v 1.1 2000/08/31 17:53:56 jhi Exp jhi $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:ivtype uvtype nvtype ivsize uvsize nvsize \
    i8type u8type i16type u16type i32type u32type i64type u64type \
    i8size u8size i16size u16size i32size u32size i64size u64size \
    d_nv_preserves_uv nv_preserves_uv_bits nv_overflows_integers_at \
    d_nv_zero_is_allbits_zero: \
 echo rm_try use64bitint d_quad quadtype uquadtype usequadmath \
 d_longdbl uselongdouble longdblsize doublesize i_quadmath \
 shortsize intsize longsize i_stdlib libs gccversion \
 cat Compile i_inttypes test signal_t run
?MAKE: -pick add $@ %<
?S:ivtype:
?S: This variable contains the C type used for Perl's IV.
?S:.
?S:uvtype:
?S: This variable contains the C type
 used for Perl's UV.
?S:.
?S:nvtype:
?S: This variable contains the C type used for Perl's NV.
?S:.
?S:i8type:
?S: This variable contains the C type used for Perl's I8.
?S:.
?S:u8type:
?S: This variable contains the C type used for Perl's U8.
?S:.
?S:i16type:
?S: This variable contains the C type used for Perl's I16.
?S:.
?S:u16type:
?S: This variable contains the C type used for Perl's U16.
?S:.
?S:i32type:
?S: This variable contains the C type used for Perl's I32.
?S:.
?S:u32type:
```

```
?S: This variable contains the C type used for Perl's U32.
?S:.
?S:i64type:
?S: This variable contains the C type used for Perl's I64.
?S:.
?S:u64type:
?S: This variable contains the C type used for Perl's U64.
?S:.
?S:ivsize:
?S: This variable is the size of an IV in bytes.
?S:.
?S:uvsize:
?S: This variable is the size of a UV in bytes.
?S:.
?S:i8size:
?S: This variable is the size of an I8 in bytes.
?S:.
?S:u8size:
?S: This variable is the size of an U8 in bytes.
?S:.
?S:i16size:
?S: This variable is the
 size of an I16 in bytes.
?S:.
?S:u16size:
?S: This variable is the size of an U16 in bytes.
?S:.
?S:i32size:
?S: This variable is the size of an I32 in bytes.
?S:.
?S:u32size:
?S: This variable is the size of an U32 in bytes.
?S:.
?S:i64size:
?S: This variable is the size of an I64 in bytes.
?S:.
?S:u64size:
?S: This variable is the size of an U64 in bytes.
?S:.
?S:nvsize:
?S: This variable is the size of a Perl NV in bytes.
?S: Note that some floating point formats have unused bytes.
?S:.
?S:d_nv_preserves_uv:
?S: This variable indicates whether a variable of type nvtype
?S: can preserve all the bits a variable of type uvtype.
?S:.
?S:nv_preserves_uv_bits:
```

```
?S: This variable indicates how many of bits type uvtype
?S: a variable nvtype can preserve.
?S:.
?S:nv_overflows_integers_at:
?S: This variable gives the largest integer value that NVs can hold
?S: as a constant floating point expression.
?S: If it could not be determined, it holds the value 0.
?S:.
?S:d_nv_zero_is_allbits_zero:
?S: This
 variable indicates whether a variable of type nvtype
?S: stores 0.0 in memory as all bits zero.
?S:.
?C:IVTYPE:
?C: This symbol defines the C type used for Perl's IV.
?C:.
?C:UVTYPE:
?C: This symbol defines the C type used for Perl's UV.
?C:.
?C:I8TYPE:
?C: This symbol defines the C type used for Perl's I8.
?C:.
?C:U8TYPE:
?C: This symbol defines the C type used for Perl's U8.
?C:.
?C:I16TYPE:
?C: This symbol defines the C type used for Perl's I16.
?C:.
?C:U16TYPE:
?C: This symbol defines the C type used for Perl's U16.
?C:.
?C:I32TYPE:
?C: This symbol defines the C type used for Perl's I32.
?C:.
?C:U32TYPE:
?C: This symbol defines the C type used for Perl's U32.
?C:.
?C:I64TYPE:
?C: This symbol defines the C type used for Perl's I64.
?C:.
?C:U64TYPE:
?C: This symbol defines the C type used for Perl's U64.
?C:.
?C:NVTYPE:
?C: This symbol defines the C type used for Perl's NV.
?C:.
?C:IVSIZE:
?C: This symbol contains the sizeof(IV).
```

```
?C:.
?C:UVSIZE:
?C: This symbol contains the
 sizeof(UV).
?C:.
?C:I8SIZE:
?C: This symbol contains the sizeof(I8).
?C:.
?C:U8SIZE:
?C: This symbol contains the sizeof(U8).
?C:.
?C:I16SIZE:
?C: This symbol contains the sizeof(I16).
?C:.
?C:U16SIZE:
?C: This symbol contains the sizeof(U16).
?C:.
?C:I32SIZE:
?C: This symbol contains the sizeof(I32).
?C:.
?C:U32SIZE:
?C: This symbol contains the sizeof(U32).
?C:.
?C:I64SIZE:
?C: This symbol contains the sizeof(I64).
?C:.
?C:U64SIZE:
?C: This symbol contains the sizeof(U64).
?C:.
?C:NVSIZE:
?C: This symbol contains the sizeof(NV).
?C: Note that some floating point formats have unused bytes.
?C: The most notable example is the x86* 80-bit extended precision
?C: which comes in byte sizes of 12 and 16 (for 32 and 64 bit
?C: platforms, respectively), but which only uses 10 bytes.
?C: Perl compiled with -Duselongdouble on x86* is like this.
?C:.
?C:NV_PRESERVES_UV:
?C: This symbol, if defined, indicates that a variable of type NVTYPE
?C: can preserve all the bits of a variable of type UVTYPE.
?C:.
?C:NV_PRESERVES_UV_BITS:
?C: This
 symbol contains the number of bits a variable of type NVTYPE
?C: can preserve of a variable of type UVTYPE.
?C:.
?C:NV_OVERFLOWS_INTEGERS_AT:
?C: This symbol gives the largest integer value that NVs can hold. This
```

```
?C: value + 1.0 cannot be stored accurately. It is expressed as constant
?C: floating point expression to reduce the chance of decimal/binary
?C: conversion issues. If it can not be determined, the value 0 is given.
?C:.
?C:NV_ZERO_IS_ALLBITS_ZERO:
?C: This symbol, if defined, indicates that a variable of type NVTYPE
?C: stores 0.0 in memory as all bits zero.
?C:.
?H:#define IVTYPE  $ivtype  /**/
?H:#define UVTYPE  $uvtype  /**/
?H:#define I8TYPE  $i8type  /**/
?H:#define U8TYPE  $u8type  /**/
?H:#define I16TYPE  $i16type /**/
?H:#define U16TYPE  $u16type /**/
?H:#define I32TYPE  $i32type /**/
?H:#define U32TYPE  $u32type /**/
?H:?%<:#ifdef HAS_QUAD
?H:?%<:#define I64TYPE  $i64type /**/
?H:?%<:#define U64TYPE  $u64type /**/
?H:?%<:#endif
?H:#define NVTYPE  $nvtype  /**/
?H:#define IVSIZE  $ivsize  /**/
?H:#define UVSIZE  $uvsize  /**/
?H:#define I8SIZE  $i8size  /**/
?H:#define U8SIZE  $u8size  /**/
?H:#define I16SIZE  $i16size /**/
?H:#define U16SIZE  $u16size /**/
?H:#define I32SIZE  $i32size /**/
?H:#define U32SIZE  $u32size /**/
?H:?%<:#ifdef
 HAS_QUAD
?H:?%<:#define I64SIZE  $i64size /**/
?H:?%<:#define U64SIZE  $u64size /**/
?H:?%<:#endif
?H:#define NVSIZE  $nvsize  /**/
?H:#$d_nv_preserves_uv NV_PRESERVES_UV
?H:#define NV_PRESERVES_UV_BITS $nv_preserves_uv_bits
?H:#define NV_OVERFLOWS_INTEGERS_AT ($nv_overflows_integers_at)
?H:#$d_nv_zero_is_allbits_zero NV_ZERO_IS_ALLBITS_ZERO
?H:?%<:#if UVSIZE == 8
?H:?%<:#   ifdef BYTEORDER
?H:?%<:#       if BYTEORDER == 0x1234
?H:?%<:#           undef BYTEORDER
?H:?%<:#           define BYTEORDER 0x12345678
?H:?%<:#       else
?H:?%<:#           if BYTEORDER == 0x4321
?H:?%<:#               undef BYTEORDER
?H:?%<:#               define BYTEORDER 0x87654321
```

```
?H:?%<:#
    endif
?H:?%<:#       endif
?H:?%<:#   endif
?H:?%<:#endif
?H:.
?T:xxx
?T:d
?F:!try
: Check basic sizes
echo " "
$echo "Choosing the C types to be used for Perl's internal types..." >&4

case "$use64bitint:$d_quad:$quadtype" in
define:define:?*)
 ivtype="$quadtype"
 uvtype="$uquadtype"
 ivsize=8
 uvsize=8
 ;;
*) ivtype="long"
 uvtype="unsigned long"
 ivsize=$longsize
 uvsize=$longsize
 ;;
esac

case "$uselongdouble:$d_longdbl" in
define:define)
 nvtype="long double"
 nvsize=$longdblsize
 ;;
*) nvtype=double
 nvsize=$doublesize
 ;;
esac

case "$usequadmath:$i_quadmath" in
define:define)
 nvtype="__float128"
 nvsize=16
 case "$libs" in
 *quadmath*) ;;
 *) $cat <<EOM >&4

*** You requested the use of the quadmath library, but you
*** do not seem to have the quadmath library installed.
*** Cannot continue, aborting.
```

```
EOM
   exit 1
   ;;
 esac
 ;;
define:*) $cat <<EOM >&4

*** You requested the use of the quadmath library, but you
*** do not seem to have the required header, <quadmath.h>.
EOM
  case "$gccversion" in
 [23].*|4.[0-5]*)
  $cat <<EOM >&4
*** Your gcc looks a bit old:
*** $gccversion
EOM
   ;;
 ")
  $cat <<EOM >&4
*** You are not running a gcc.
EOM
   ;;
 esac
 $cat <<EOM >&4
*** For the quadmath library you need at least gcc 4.6.
*** Cannot continue, aborting.
EOM
 exit 1
 ;;
esac

$echo "(IV will be "$ivtype", $ivsize bytes)"
$echo "(UV will be "$uvtype", $uvsize bytes)"
$echo "(NV will be "$nvtype", $nvsize bytes)"

$cat >try.c <<EOCP
#$i_inttypes I_INTTYPES
#ifdef I_INTTYPES
#include <inttypes.h>
#endif
#include <stdio.h>
int main() {
#ifdef INT8
  int8_t i =  INT8_MAX;
 uint8_t u = UINT8_MAX;
 printf("int8_t\n");
#endif
#ifdef INT16
```

```
  int16_t i =  INT16_MAX;
 uint16_t u = UINT16_MAX;
 printf("int16_t\n");
#endif
#ifdef INT32
  int32_t i =  INT32_MAX;
 uint32_t u = UINT32_MAX;
 printf("int32_t\n");
#endif
}
EOCP

i8type="signed char"
u8type="unsigned char"
i8size=1
u8size=1

case "$i16type" in
") case "$shortsize" in
 2) i16type=short
  u16type="unsigned
 short"
  i16size=$shortsize
  u16size=$shortsize
  ;;
 esac
 ;;
esac
case "$i16type" in
") set try -DINT16
 if eval $compile; then
  case "`$run ./try`" in
  int16_t)
   i16type=int16_t
   u16type=uint16_t
   i16size=2
   u16size=2
   ;;
  esac
 fi
 ;;
esac
case "$i16type" in
") if $test $shortsize -ge 2; then
  i16type=short
  u16type="unsigned short"
  i16size=$shortsize
  u16size=$shortsize
```

```
 fi
 ;;
esac

case "$i32type" in
") case "$longsize" in
 4) i32type=long
  u32type="unsigned long"
  i32size=$longsize
  u32size=$longsize
  ;;
 *) case "$intsize" in
  4) i32type=int
   u32type="unsigned int"
   i32size=$intsize
   u32size=$intsize
   ;;
  esac
  ;;
 esac
 ;;
esac
case "$i32type" in
") set try -DINT32
 if eval $compile; then
  case "`$run ./try`" in
  int32_t)
   i32type=int32_t
   u32type=uint32_t
   i32size=4
   u32size=4
   ;;
  esac
 fi
 ;;
esac
case "$i32type" in
") if $test $intsize -ge 4; then
  i32type=int
  u32type="unsigned int"
  i32size=$intsize
  u32size=$intsize
 fi
 ;;
esac

case
```

```
 "$i64type" in
") case "$d_quad:$quadtype" in
 define:?*)
  i64type="$quadtype"
  u64type="$uquadtype"
  i64size=8
  u64size=8
  ;;
 esac
 ;;
esac

$echo "Checking how many bits of your UVs your NVs can preserve..." >&4
$cat <<EOP >try.c
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <sys/types.h>
#include <signal.h>
#ifdef SIGFPE
/* volatile so that the compiler has to store it out to memory */
volatile int bletched = 0;
$signal_t blech(int s) { bletched = 1; }
#endif
int main() {
   $uvtype u = 0;
   $nvtype d;
   int     n = 8 * $uvsize;
   int     i;
#ifdef SIGFPE
   signal(SIGFPE, blech);
#endif

   for (i = 0; i < n; i++) {
     u = u << 1 | ($uvtype)1;
     d = ($nvtype)u;
     if (($uvtype)d != u)
       break;
     if (d <= 0)
 break;
     d = ($nvtype)(u - 1);
     if (($uvtype)d != (u - 1))
       break;
#ifdef SIGFPE
     if (bletched)
 break;
```

```
#endif
   }
   printf("%d\n",
 ((i == n) ? -n : i));
   exit(0);
}
EOP
set try

d_nv_preserves_uv="$undef"
if eval $compile; then
 nv_preserves_uv_bits="`$run ./try`"
fi
case "$nv_preserves_uv_bits" in
\-[1-9]*)
 nv_preserves_uv_bits=`expr 0 - $nv_preserves_uv_bits`
 $echo "Your NVs can preserve all $nv_preserves_uv_bits bits of your UVs."  >&4
 d_nv_preserves_uv="$define"
 ;;
[1-9]*) $echo "Your NVs can preserve only $nv_preserves_uv_bits bits of your UVs."  >&4
 d_nv_preserves_uv="$undef" ;;
*) $echo "Can't figure out how many bits your NVs preserve." >&4
 nv_preserves_uv_bits="0" ;;
esac
$rm_try

$echo "Checking to find the largest integer value your NVs can hold..." >&4
$cat <<EOP >try.c
#include <stdio.h>

typedef $nvtype NV;

int
main() {
 NV value = 2;
 int count = 1;

 while(count < 256) {
   /* volatile so that the compiler has to store it out to memory */
   volatile NV up = value + 1.0;
   volatile NV negated = -value;
   volatile NV down = negated - 1.0;
   volatile NV got_up = up -
 value;
   int up_good = got_up == 1.0;
   int got_down = down - negated;
   int down_good = got_down == -1.0;
```

```
  if (down_good != up_good) {
    fprintf(stderr,
      "Inconsistency - up %d %f; down %d %f; for 2**%d (%.20f)\n",
      up_good, (double) got_up, down_good, (double) got_down,
      count, (double) value);
    return 1;
  }
  if (!up_good) {
    while (1) {
 if (count > 8) {
  count -= 8;
  fputs("256.0", stdout);
 } else {
  count--;
  fputs("2.0", stdout);
 }
 if (!count) {
  puts("");
  return 0;
 }
 fputs("*", stdout);
    }
  }
  value *= 2;
  ++count;
 }
 fprintf(stderr, "Cannot overflow integer range, even at 2**%d (%.20f)\n",
  count, (double) value);
 return 1;
}
EOP
set try

nv_overflows_integers_at='0'
if eval $compile; then
  xxx="`$run ./try`"
  case "$?" in
 0)
    case "$xxx" in
  2*)  cat >&4 <<EOM
The largest integer your NVs can preserve is equal to $xxx
EOM
      nv_overflows_integers_at="$xxx"
      ;;
  *)  cat
 >&4 <<EOM
Cannot determine the largest integer value your NVs can hold, unexpected output
'$xxx'
```

```
EOM
      ;;
     esac
     ;;
 *)  cat >&4 <<EOM
Cannot determine the largest integer value your NVs can hold
EOM
     ;;
   esac
fi
$rm_try

$echo "Checking whether NV 0.0 is all bits zero in memory..." >&4
$cat <<EOP >try.c
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <string.h>
#include <sys/types.h>
#include <signal.h>
#ifdef SIGFPE
/* volatile so that the compiler has to store it out to memory */
volatile int bletched = 0;
$signal_t blech(int s) { bletched = 1; }
#endif

int checkit($nvtype d, const char *where) {
   void *v = &d;
   unsigned char *p = (unsigned char *)v;
   unsigned char *end = p + sizeof(d);
   int fail = 0;

   while (p < end)
 fail += *p++;

   if (!fail)
 return 0;

   p = (unsigned char *)v;
   printf("No - %s: 0x", where);
   while (p < end)
 printf ("%02X", *p++);
   printf("\n");
   return 1;
}
```

```
int main(int
 argc, char **argv) {
   $nvtype d = 0.0;
   int fail = 0;
   fail += checkit(d, "0.0");

   /* The compiler shouldn't be assuming that bletched is 0  */
   d = bletched;

   fail += checkit(d, "bleched");

#ifdef SIGFPE
   signal(SIGFPE, blech);
#endif

   /* Paranoia - the compiler should have no way of knowing that ANSI says
      that argv[argc] will always be NULL.  Actually, if it did assume this it
      would be buggy, as this is C and main() can be called from elsewhere in
      the program.  */
   d = argv[argc] ? 1 : 0;

   if (d) {
 printf("Odd argv[argc]=%p, d=%g\n", argv[argc], d);
   }

   fail += checkit(d, "ternary");

   memset(&d, sizeof(d), argv[argc] ? 1 : 0);

   if (d != 0.0) {
 printf("No - memset doesn't give 0.0\n");
 /* This might just blow up:  */
 printf("(gives %g)\n", d);
 return 1;
   }

#ifdef SIGFPE
   if (bletched) {
 printf("No - something bleched\n");
 return 1;
   }
#endif
   if (fail) {
     printf("No - %d fail(s)\n",
 fail);
     return 1;
   }
   printf("Yes\n");
```

```
   return 0;
}
EOP
set try

d_nv_zero_is_allbits_zero="$undef"
if eval $compile; then
   xxx="`$run ./try`"
   case "$?" in
 0)
     case "$xxx" in
  Yes)  cat >&4 <<EOM
0.0 is represented as all bits zero in memory
EOM
      d_nv_zero_is_allbits_zero="$define"
      ;;
  *)  cat >&4 <<EOM
0.0 is not represented as all bits zero in memory
EOM
      d_nv_zero_is_allbits_zero="$undef"
      ;;
     esac
     ;;
 *)  cat >&4 <<EOM
0.0 is not represented as all bits zero in memory
EOM
     d_nv_zero_is_allbits_zero="$undef"
     ;;
   esac
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/perlxv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sysman.U,v 3.0.1.2 1994/06/20 07:08:43 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sysman.U,v $
```

```
?RCS: Revision 3.0.1.2  1994/06/20  07:08:43  ram
?RCS: patch30: now explicitly states that /usr/man/man1 is the default
?RCS: patch30: added /usr/local/man/man1 to the search list
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:13:50  ram
?RCS: patch10: added support for /local/man/man1 (WAD)
?RCS: patch10: added temporary syspath variable to cut down on line length
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:55  ram
?RCS: Baseline for dist 3.0 netwide
 release.
?RCS:
?MAKE:sysman: test Loc Oldconfig
?MAKE: -pick add $@ %<
?S:sysman:
?S: This variable holds the place where the manual is located on this
?S: system. It is not the place where the user wants to put his manual
?S: pages. Rather it is the place where Configure may look to find manual
?S: for unix commands (section 1 of the manual usually). See mansrc.
?S:.
?T:syspath
: determine where manual pages are on this system
echo " "
case "$sysman" in
")
 syspath='/usr/share/man/man1 /usr/man/man1'
 syspath="$syspath /usr/man/mann /usr/man/manl /usr/man/local/man1"
 syspath="$syspath /usr/man/u_man/man1"
 syspath="$syspath /usr/catman/u_man/man1 /usr/man/l_man/man1"
 syspath="$syspath /usr/local/man/u_man/man1 /usr/local/man/l_man/man1"
 syspath="$syspath /usr/man/man.L /local/man/man1 /usr/local/man/man1"
 sysman=`./loc . /usr/man/man1 $syspath`
 ;;
esac
if $test -d "$sysman"; then
 echo "System manual is in $sysman." >&4
else
 echo "Could not find manual pages in source form."
 >&4
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/sysman.U
No license file was found, but licenses were detected in source scan.

```
?RCS:
?RCS: Copyright (c) 2012 Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:ilp d_ilp32 d_ilp64 d_lp64 d_can64: Assert Myread Setvar \
 cat rm +cc +ccflags echo n c intsize longsize ptrsize
?MAKE: -pick add $@ %<
?S:ilp:
?S: This variable contains the largest amount of bits that the CPU supports,
?S: from the compiler's point of view.  Typically 32 or 64.
?S:.
?S:d_ilp32:
?S: This variable conditionally defines the CPU_IS_ILP32.
?S:.
?S:d_ilp64:
?S: This variable conditionally defines the CPU_IS_ILP64.
?S:.
?S:d_lp64:
?S: This variable conditionally defines the CPU_IS_LP64.
?S:.
?S:d_can64:
?S: This variable
 conditionally defines CAN_HANDLE_64BITS.
?S:.
?C:CPU_ILP_MAXBITS:
?C: This symbol contains the largest amount of bits that the CPU natively
?C: supports from the compiler's point of view.  Typically 32 or 64.
?C:.
?C:CPU_IS_ILP32:
?C: When defined, this indicates that the integer, long and pointer variables
?C: hold 32-bit values.
?C:.
?C:CPU_IS_ILP64:
?C: When defined, this indicates that the integer, long and pointer variables
?C: hold 64-bit values.
?C:.
?C:CPU_IS_LP64:
?C: When defined, this indicates that the long and pointer variables hold
?C: 64-bit values but integers are smaller (probably only 32-bit wide).
?C:.
?C:CAN_HANDLE_64BITS:
?C: When defined, this indicates that the compiler can handle 64-bit values
?C: despite the CPU having only 32-bit registers.  These are available using
?C: the "long long" C type.  It is only defined for ILP32 machines, since
?C: 64-bit support is naturally available on ILP64 and LP64 machines.
```

```
?C:.
?H:#define CPU_ILP_MAXBITS $ilp
?H:#$d_ilp32
 CPU_IS_ILP32 /**/
?H:#$d_ilp64 CPU_IS_ILP64 /**/
?H:#$d_lp64 CPU_IS_LP64  /**/
?H:#$d_can64 CAN_HANDLE_64BITS /**/
?H:.
?LINT: set d_ilp32 d_ilp64 d_lp64 d_can64
: check for architecture type
echo " "
$echo $n "Computing CPU architecture type...$c" >&4
ilp=`expr $longsize \* 8`
case "$ptrsize" in
8)
 val=$undef; set d_ilp32; eval $setvar
 case "$intsize" in
 8)
  echo " ILP64." >&4
  val=$define; set d_ilp64; eval $setvar
  val=$undef; set d_lp64; eval $setvar
  ;;
 *)
  echo " LP64." >&4
  val=$define; set d_lp64; eval $setvar
  val=$undef; set d_ilp64; eval $setvar
  ;;
 esac
 ;;
*)
 echo " ILP${ilp}." >&4
 case "$ilp" in
 32) val=$define;;
 *) val=$undef;;
 esac
 set d_ilp32; eval $setvar
 val=$undef; set d_ilp64; eval $setvar
 val=$undef; set d_lp64; eval $setvar
 ;;
esac

@if CAN_HANDLE_64BITS || d_can64
: see whether compiler supports 64-bit emulation
val=$undef
case "$ilp" in
64) val=$define;;
*)
 $cat >try.c <<EOCP
```

```
#include "static_assert.h"
long long foo;
int main()
{
 STATIC_ASSERT(8
 == sizeof(foo));
 return 0;
}
EOCP
 if $cc -c $ccflags try.c >/dev/null 2>&1; then
  echo " "
  echo "Your compiler also supports 64-bit emulation." >&4
  val=$define
 fi
 $rm -f try.*
 ;;
esac
set d_can64
eval $setvar

@end
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/ilp.U
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```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strctcpy.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:34  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strctcpy: cat rm_try cc Setvar
?MAKE: -pick add $@ %<
?S:d_strctcpy:
?S: This variable conditionally defines the USE_STRUCT_COPY symbol, which
?S: indicates to the C program that this C compiler knows how to copy
?S: structures.
?S:.
```

```
?C:USE_STRUCT_COPY (STRUCTCOPY):
?C: This symbol, if defined, indicates that this C compiler knows how
?C: to copy structures.  If undefined, you'll
 need to use a block copy
?C: routine of some sort instead.
?C:.
?H:#$d_strctcpy USE_STRUCT_COPY /**/
?H:.
?LINT:set d_strctcpy
: check for structure copying
echo " "
echo "Checking to see if your C compiler can copy structs..." >&4
$cat >try.c <<'EOCP'
int main()
{
 struct blurfl {
  int dyick;
 } foo, bar;

 foo = bar;
}
EOCP
if $cc -c try.c >/dev/null 2>&1 ; then
 val="$define"
 echo "Yup, it can."
else
 val="$undef"
 echo "Nope, it can't."
fi
set d_strctcpy
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strctcpy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_su_chown.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: d_su_chown.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:40  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_su_chown: Csym Setvar
?MAKE: -pick add $@ %<
?S:d_su_chown (d_rootchown):
?S: This variable conditionally defines the SU_CHOWN symbol, which
?S: indicates to the C program that only root can chown() the owner
?S: of a file.
?S:.
?C:SU_CHOWN (ROOT_CHOWN):
?C: This symbol, if defined, indicates that the system allows only root
?C: can
 change the owner of a file with chown().
?C:.
?H:#$d_su_chown SU_CHOWN /**/
?H:.
?LINT:set d_su_chown
: see if 'chown()' is restricted.
: but not too hard, as it is late and I am tired. -- HMS
echo " "
if set setreuid val -f d_su_chown; eval $csym; $val; then
 echo 'It looks like only root can chown() the owner of a file.' >&4
 val="$define"
else
 echo 'It looks like root or the owner can chown() a file away.' >&4
 val="$undef"
fi
set d_su_chown
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_su_chown.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sfio.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: i_sfio.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:48:27  ram
?RCS: patch61: created
?RCS:
?MAKE:i_sfio: Inhdr Setvar
?MAKE: -pick add $@ %<
?S:i_sfio:
?S: This variable conditionally defines the I_SFIO symbol,
?S: and indicates whether a C program should include <sfio.h>.
?S:.
?C:I_SFIO:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sfio.h>.
?C:.
?H:#$i_sfio I_SFIO  /**/
?H:.
?LINT:set
 i_sfio
: see if sfio.h is available
set sfio.h i_sfio
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sfio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_gethid.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:10  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_gethid: Inlibc
?MAKE: -pick add $@ %<
?S:d_gethid:
?S: This variable conditionally defines HAS_GETHOSTID if gethostid() is
?S: available to get the host id.
?S:.
?C:HAS_GETHOSTID (GETHOSTID):
```

```
?C: This symbol, if defined, indicates that the gethostid system call is
?C: available to get the host id.
?C:.
?H:#$d_gethid HAS_GETHOSTID  /**/
?H:.
?LINT:set
 d_gethid
: see if gethid exists
set gethostid d_gethid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_gethid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gmtime_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_gmtime_r gmtime_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_time i_systime extern_C
?MAKE: -pick add $@ %<
?S:d_gmtime_r:
?S: This variable conditionally defines the HAS_GMTIME_R symbol,
?S: which indicates to the C program that the gmtime_r()
?S: routine is available.
?S:.
?S:gmtime_r_proto:
?S: This variable encodes the prototype of gmtime_r.
?S: It is zero if d_gmtime_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gmtime_r
?S: is defined.
?S:.
?C:HAS_GMTIME_R:
?C: This symbol, if defined, indicates that the gmtime_r routine
?C: is available to gmtime re-entrantly.
?C:.
?C:GMTIME_R_PROTO:
?C: This
 symbol encodes the prototype of gmtime_r.
?C: It is zero if d_gmtime_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gmtime_r
?C: is defined.
```

```
?C:.
?H:#$d_gmtime_r HAS_GMTIME_R /**/
?H:#define GMTIME_R_PROTO $gmtime_r_proto /**/
?H:.
?T:try hdrs d_gmtime_r_proto
: see if gmtime_r exists
set gmtime_r d_gmtime_r
eval $inlibc
case "$d_gmtime_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_time time.h $i_systime sys/time.h"
 case "$d_gmtime_r_proto:$usethreads" in
 ":define") d_gmtime_r_proto=define
  set d_gmtime_r_proto gmtime_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_gmtime_r_proto" in
 define)
 case "$gmtime_r_proto" in
 "|0) try='struct tm* gmtime_r(const time_t*, struct tm*);'
 ./protochk "$extern_C $try" $hdrs && gmtime_r_proto=S_TS ;;
 esac
 case "$gmtime_r_proto" in
 "|0) try='int gmtime_r(const time_t*, struct tm*);'
 ./protochk "$extern_C $try" $hdrs && gmtime_r_proto=I_TS ;;
 esac
 case
 "$gmtime_r_proto" in
 "|0) d_gmtime_r=undef
  gmtime_r_proto=0
  echo "Disabling gmtime_r, cannot determine prototype." >&4 ;;
 * ) case "$gmtime_r_proto" in
  REENTRANT_PROTO*) ;;
  *) gmtime_r_proto="REENTRANT_PROTO_$gmtime_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "gmtime_r has no prototype, not using it." >&4 ;;
  esac
  d_gmtime_r=undef
  gmtime_r_proto=0
  ;;
 esac
 ;;
*) gmtime_r_proto=0
```

```
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_gmtime_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_memalign.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memalign.U,v $
?RCS:
?MAKE:d_memalign: Inlibc
?MAKE: -pick add $@ %<
?S:d_memalign:
?S: This variable conditionally defines the HAS_MEMALIGN symbol, which
?S: indicates to the C program that the memalign() routine is available.
?S:.
?C:HAS_MEMALIGN :
?C: This symbol, if defined, indicates that the memalign routine is
?C: available to allocate aligned memory.
?C:.
?H:#$d_memalign HAS_MEMALIGN  /**/
?H:.
?LINT:set d_memalign
: see if memalign exists
set
 memalign d_memalign
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_memalign.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the WRITEME file.
?RCS:
?MAKE:d_writev: Inlibc
?MAKE: -pick add $@ %<
?S:d_writev:
?S: This variable conditionally defines the HAS_WRITEV symbol, which
?S: indicates to the C program that the writev() routine is available.
?S:.
?C:HAS_WRITEV:
?C: This symbol, if defined, indicates that the writev routine is
?C: available to do scatter writes.
?C:.
?H:#$d_writev HAS_WRITEV  /**/
?H:.
?LINT:set d_writev
: see if writev exists
set writev d_writev
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_writev.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:run to from targetarch targetdir targetmkdir targethost targetport \
 usecrosscompile hostperl hostgenerate hostosname targetenv: \
    src test rm echo sed mkdir cp chmod make touch
?MAKE: -pick add $@ %<
?Y:TOP
?S:usecrosscompile:
?S: This variable conditionally defines the USE_CROSS_COMPILE symbol,
?S: and indicates that Perl has been cross-compiled.
?S:.
?S:run:
?S: This variable contains the command used by Configure
?S: to copy and execute a cross-compiled executable in the
?S: target host.  Useful and available only during Perl build.
?S: Empty string '' if not cross-compiling.
?S:.
?S:from:
?S: This variable contains the command used by Configure
```

```
?S: to copy files from the target host.  Useful
 and available
?S: only during Perl build.
?S: The string ':' if not cross-compiling.
?S:.
?S:to:
?S: This variable contains the command used by Configure
?S: to copy to from the target host.  Useful and available
?S: only during Perl build.
?S: The string ':' if not cross-compiling.
?S:.
?S:targetarch:
?S: If cross-compiling, this variable contains the target architecture.
?S: If not, this will be empty.
?S:.
?S:targetdir:
?S: This variable contains a path that will be created on the target
?S: host using targetmkdir, and then used to copy the cross-compiled
?S: executables to. Defaults to '/tmp' if not set.
?S:.
?S:targetmkdir:
?S: This variable contains the command used by Configure to create a
?S: new directory on the target host.
?S:.
?S:targethost:
?S: This variable contains the name of a separate host machine that
?S: can be used to run compiled test programs and perl tests on.
?S: Set to empty string if not in use.
?S:.
?S:targetport:
?S: This variable contains the number
 of a network port to be used to
?S: connect to the host in targethost, if unset defaults to 22 for ssh.
?S:.
?S:hostperl:
?S: This variable contains the path to a miniperl binary that can be
?S: run on the host OS when cross-compiling.  Useful and available only
?S: during Perl build.
?S: Empty string '' if not cross-compiling.
?S:.
?S:hostgenerate:
?S: This variable contains the path to a generate_uudmap binary that
?S: can be run on the host OS when cross-compiling.  Useful and
?S: available only during Perl build.
?S: Empty string '' if not cross-compiling.
?S:.
?S:hostosname:
?S: This variable contains the original value of '$^O' for hostperl
```

```
?S: when cross-compiling.  This is useful to pick the proper tools
?S: when running build code in the host.
?S: Empty string '' if not cross-compiling.
?S:.
?S:targetenv:
?S: If cross-compiling, this variable can be used to modify the
?S: environment on the target system.
?S: However, how and where it's used, and even if it's used at all, is
?S: entirely
 dependent on both the transport mechanism (targetrun) and
?S: what the target system is.  Unless the relevant documentation says
?S: otherwise, it is genereally not useful.
?S:.
?C:USE_CROSS_COMPILE:
?C: This symbol, if defined, indicates that Perl is being cross-compiled.
?C:.
?C:PERL_TARGETARCH:
?C: This symbol, if defined, indicates the target architecture
?C: Perl has been cross-compiled to.  Undefined if not a cross-compile.
?C:.
?H:?%<:#ifndef USE_CROSS_COMPILE
?H:?%<:#$usecrosscompile USE_CROSS_COMPILE /**/
?H:?%<:#define PERL_TARGETARCH "$targetarch" /**/
?H:?%<:#endif
?H:.
?D:targetenv=''
?D:targethost=''
?D:targetmkdir=''
?T:croak pwd exe f q cwd file xxx env
?LINT:extern usecrosscompile
?LINT:extern cc
?LINT:extern usrinc
?LINT:change ar
?LINT:change nm
?LINT:change ranlib
?LINT:change src
?LINT:extern targetenv
?LINT:extern targetport
?LINT:extern targetdir
?LINT:extern targetuser
?LINT:change targetuser
?LINT:extern targetrun
?LINT:extern targetfrom
?LINT:extern
 targetto
?LINT:change targetrun
?LINT:change targetfrom
?LINT:change targetto
```

```
?LINT:extern incpth
?LINT:extern libpth
?LINT:extern locincpth
?LINT:extern loclibpth
?LINT:change locincpth
?LINT:change loclibpth
?LINT:extern hostperl
?LINT:extern hostgenerate
?LINT:extern before_host
?LINT:change before_host
?LINT:extern hostosname
?LINT:extern multiarch
: Check for Cross-Compilation
?X: targethost and targetenv mainly set to allow ?S: documentation
?X:otherwise it could have been declared extern
if $test "X$targethost" = "X"; then
   targethost=""
fi
if $test "X$targetenv" = "X"; then
   targetenv=""
fi
case "$usecrosscompile" in
$define|true|[yY]*)
 $echo "Cross-compiling..."
 croak="
 case "$cc" in
 *-gcc*|*-g++*) # A cross-compiling gcc, probably.
     # arm-linux-androideabi-gcc  -> arm-linux-androideabi
     # x86_64-w64-mingw32-gcc.exe -> x86_64-w64-mingw32
     targetarch=`$echo $cc|$sed 's/-g[c\+][c\+].*$//'`
     ar=`$echo $cc|$sed 's/-g[c\+][c\+]/-ar/'`
     # leave out ld,
 choosing it is more complex
     nm=`$echo $cc|$sed 's/-g[c\+][c\+]/-nm/'`
     ranlib=`$echo $cc|$sed 's/-g[c\+][c\+]/-ranlib/'`
     # We are in a weird spot. Just before us, some values
     # were 'saved', to be restored after the hints are
     # run.  This means that the changes we made to ar,
     # nm and ranlib will get reverted.
     # To avoid that, we hijack the saving mechanism and
     # have it save our new values.
     for file in ar nm ranlib; do
  eval xxx=\$$file
  eval $file=$xxx$_exe
  eval _$file=$xxx
     done
 ;;
 esac
```

```
 case "$targetarch" in
 ") echo "Targetarch not defined." >&4; croak=y ;;
 *)  echo "Using targetarch $targetarch." >&4 ;;
 esac
 case "$targethost" in
 ") echo "Targethost not defined." >&4; croak=n ;;
 *)  echo "Using targethost $targethost." >&4
 esac
 locincpth=' '
 loclibpth=' '
 case "$croak" in
 y) echo "Cannot continue, aborting." >&4; exit 1 ;;
 esac
   : compile a host miniperl and generate_uudmap, unless we got passed them
   if
 $test "X$hostperl" = X; then
     echo "Building host miniperl and generate_uudmap binaries" >&4
     before_host=`pwd`
     cd ..
     cd $src
     src=`pwd`
     rm -rf $src/host
     mkdir $src/host
     cd $src/host
     $src/Configure -des -Dusedevel -Dmksymlinks
     $make miniperl
     case "$hostgenerate" in
     ") $make generate_uudmap
         hostgenerate=$src/host/generate_uudmap
         ;;
      "$undef") hostgenerate="
         ;;
     esac
     hostperl=$src/host/miniperl
     cd $before_host
   fi
   hostosname=`$hostperl -le 'print $^O'`
   ;;
*)
   usecrosscompile="$undef"
   ;;
esac

: Define -Dtargethost=somecomputer to run compiled tests on another machine
case "$targethost" in
   ") echo "Checking for cross-compile" >&4
   case "$usecrosscompile$multiarch" in
      *$define*) echo "Skipping the try tests in the rest of Configure as no targethost was defined when cross-
```

```
compiling" >&4
        if [ -f Makefile ]; then
          echo
" "
          echo "Now you must ensure config.sh, config.h and the generated headers exist and run a $make."
        else
          echo "Configure done."
        fi
      exit 0
      ;;
    *) echo "No targethost for running compiler tests against defined, running locally" >&4
       run="
       to=:
       from=:
       ;;
  esac
  ;;
  *) echo "Using targethost $targethost." >&4
case "$src" in
/*) run=$src/Cross/run
    targetmkdir=$src/Cross/mkdir
    to=$src/Cross/to
    from=$src/Cross/from
    ;;
*)  pwd=`$test -f ../Configure & cd ..; pwd`
    run=$pwd/Cross/run
    targetmkdir=$pwd/Cross/mkdir
    to=$pwd/Cross/to
    from=$pwd/Cross/from
    ;;
esac
case "$targetrun" in
") targetrun=ssh ;;
esac
case "$targetto" in
") targetto=scp ;;
esac
case "$targetfrom" in
") targetfrom=scp ;;
esac
run=$run-$targetrun
to=$to-$targetto
from=$from-$targetfrom
case "$targetdir" in
")  targetdir=/tmp
     echo "Guessing targetdir $targetdir."
>&4
     ;;
```

```
 esac
 case "$targetuser" in
 ")  targetuser=root
      echo "Guessing targetuser $targetuser." >&4
      ;;
 esac
 case "$targetport" in
 ")  targetport=22
      echo "Guessing targetport $targetport." >&4
      ;;
 esac
 case "$targetfrom" in
 scp) q=-q ;;
 *) q=" ;;
 esac
 case "$targetrun" in
 ssh|rsh)
     cat >$run <<EOF
#!/bin/sh
env="
case "\$1" in
-cwd)
 shift
 cwd=\$1
 shift
 ;;
esac
case "\$1" in
-env)
 shift
 env=\$1
 shift
 ;;
esac
case "\$cwd" in
") cwd=$targetdir ;;
esac
exe=\$1
shift
$to \$exe
$targetrun -p $targetport -l $targetuser $targethost "cd \$cwd && \$env \$exe \$@"
EOF
     ;;
 adb)
     $touch $run
     ;;
 *)  echo "Unknown targetrun '$targetrun'" >&4
     exit 1
```

```
    ;;
 esac
 case "$targetmkdir" in
 */Cross/mkdir)
    cat >$targetmkdir <<EOF
#!/bin/sh
$targetrun -p $targetport -l $targetuser $targethost "mkdir -p \$@"
EOF
    $chmod a+rx $targetmkdir
    ;;
 *)  echo "Unknown targetmkdir '$targetmkdir'" >&4
    exit 1
    ;;
 esac
 case
 "$targetto" in
 scp|rcp)
    cat >$to <<EOF
#!/bin/sh
for f in \$@
do
 case "\$f" in
 /*)
   $targetmkdir \`dirname \$f\`
   $targetto -P $targetport -r $q \$f $targetuser@$targethost:\$f          2>/dev/null  || exit 1
   ;;
 *)
   $targetmkdir $targetdir/\`dirname \$f\`
   $targetto -P $targetport -r $q \$f $targetuser@$targethost:$targetdir/\$f 2>/dev/null || exit 1
   ;;
 esac
done
exit 0
EOF
    ;;
 cp) cat >$to <<EOF
#!/bin/sh
for f in \$@
do
 case "\$f" in
 /*)
   $mkdir -p $targetdir/\`dirname \$f\`
   $cp \$f $targetdir/\$f || exit 1
   ;;
 *)
   $targetmkdir $targetdir/\`dirname \$f\`
   $cp \$f $targetdir/\$f || exit 1
   ;;
```

```
 esac
done
exit 0
EOF
     ;;
 *)  echo "Unknown targetto '$targetto'" >&4
     exit 1
     ;;
 esac
 case "$targetfrom" in
 scp|rcp)
   cat >$from <<EOF
#!/bin/sh
for f in \$@
do
 $rm -f \$f
 $targetfrom -P $targetport $q $targetuser@$targethost:$targetdir/\$f . || exit 1
done
exit 0
EOF
     ;;
 cp) cat >$from <<EOF
#!/bin/sh
for
 f in \$@
do
 $rm -f \$f
 cp $targetdir/\$f . || exit 1
done
exit 0
EOF
     ;;
 *)  echo "Unknown targetfrom '$targetfrom'" >&4
     exit 1
     ;;
 esac
 if $test ! -f $run; then
     echo "Target 'run' script '$run' not found." >&4
 else
     $chmod a+rx $run
 fi
 if $test ! -f $to; then
     echo "Target 'to' script '$to' not found." >&4
 else
     $chmod a+rx $to
 fi
 if $test ! -f $from; then
     echo "Target 'from' script '$from' not found." >&4
```

```
 else
    $chmod a+rx $from
 fi
 if $test ! -f $run -o ! -f $to -o ! -f $from; then
    exit 1
 fi
 cat >&4 <<EOF
Using '$run' for remote execution,
and '$from' and '$to'
for remote file transfer.
EOF
 ;;
*) run=''
 to=:
 from=:
 usecrosscompile="$undef"
 targetarch=''
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/Cross.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: lseektype.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:30:10  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lseektype: Myread Typedef
?MAKE: -pick add $@ %<
?S:lseektype:
?S: This variable defines lseektype to be something like off_t, long,
?S: or whatever type is used to declare lseek offset's type in the
?S: kernel (which also appears to be lseek's return type).
```

```
?S:.
?C:Off_t
 (LSEEKTYPE):
?C: This symbol holds the type used to declare offsets in the kernel.
?C: It can be int, long, off_t, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Off_t $lseektype  /* <offset> type */
?H:.
: see what type lseek is declared as in the kernel
set off_t lseektype long stdio.h sys/types.h
eval $typedef
echo " "
dflt="$lseektype"
rp="What type is lseek's offset on this system declared as?"
. ./myread
lseektype="$ans"
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/lseektype.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_voidsig.U,v $
?RCS: Revision 3.0.1.3  1995/05/12  12:12:46  ram
?RCS: patch54: made cppflags dependency optional
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:20:35  ram
?RCS: patch32: now sets signal_t only once d_voidsig is known (WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:59:54  ram
?RCS: patch30: now properly sets signal_t when re-using previous value
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_voidsig signal_t: rm contains
```

```
 cppstdin cppminus +cppflags test Myread \
 Oldconfig Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_voidsig:
?S: This variable conditionally defines VOIDSIG if this system
?S: declares "void (*signal(...))()" in signal.h.  The old way was to
?S: declare it as "int (*signal(...))()".
?S:.
?S:signal_t:
?S: This variable holds the type of the signal handler (void or int).
?S:.
?C:VOIDSIG:
?C: This symbol is defined if this system declares "void (*signal(...))()" in
?C: signal.h.  The old way was to declare it as "int (*signal(...))()".  It
?C: is up to the package author to declare things correctly based on the
?C: symbol.
?C:.
?C:Signal_t (SIGNAL_T):
?C: This symbol's value is either "void" or "int", corresponding to the
?C: appropriate return type of a signal handler.  Thus, you can declare
?C: a signal handler using "Signal_t (*handler)()", and define the
?C: handler using "Signal_t handler(sig)".
?C:.
?H:#$d_voidsig VOIDSIG  /**/
?H:#define Signal_t $signal_t /* Signal handler's return
 type */
?H:.
?T:xxx
?LINT:set d_voidsig
: see if signal is declared as pointer to function returning int or void
echo " "
xxx=`./findhdr signal.h`
$test "$xxx" && $cppstdin $cppminus $cppflags < $xxx >$$.tmp 2>/dev/null
if $contains 'int.*\*[  ]*signal' $$.tmp >/dev/null 2>&1 ; then
 echo "You have int (*signal())() instead of void." >&4
 val="$undef"
elif $contains 'void.*\*[  ]*signal' $$.tmp >/dev/null 2>&1 ; then
 echo "You have void (*signal())() instead of int." >&4
 val="$define"
elif $contains 'extern[  ]*[(\*]*signal' $$.tmp >/dev/null 2>&1 ; then
 echo "You have int (*signal())() instead of void." >&4
 val="$undef"
else
 case "$d_voidsig" in
 ")
 echo "I can't determine whether signal handler returns void or int..." >&4
  dflt=void
  rp="What type does your signal handler return?"
```

```
  . ./myread
  case "$ans" in
  v*) val="$define";;
  *) val="$undef";;
  esac;;
 "$define")
  echo "As you already told me, signal handler returns void." >&4;;
 *)
  echo "As you already told
 me, signal handler returns int." >&4;;
 esac
fi
set d_voidsig
eval $setvar
case "$d_voidsig" in
"$define") signal_t="void";;
*) signal_t="int";;
esac
$rm -f $$.tmp
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_voidsig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_dld.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_dld.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:20:07  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:i_dld: Inhdr
?MAKE: -pick add $@ %<
?S:i_dld:
?S: This variable conditionally defines the I_DLD symbol, which
?S: indicates to the C program that <dld.h> (GNU dynamic loading)
?S: exists and should be included.
?S:.
```

```
?C:I_DLD:
?C: This symbol, if defined, indicates that <dld.h>
 exists and should
?C: be included before using GNU dynamic loading features.
?C:.
?H:#$i_dld I_DLD /**/
?H:.
?LINT:set i_dld
: see if dld is available
set dld.h i_dld
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_dld.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_malloc.U,v 3.5 2008/03/29 14:06:51 merijn Exp $
?RCS:
?RCS: Copyright (c) 2008, H.Merijn Brand
?RCS:
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?RCS: of the source tree for dist 3.5.
?RCS:
?MAKE:i_mallocmalloc: Inhdr
?MAKE: -pick add $@ %<
?S:i_mallocmalloc:
?S: This variable conditionally defines the I_MALLOCMALLOC symbol,
?S: and indicates whether a C program should include <malloc/malloc.h>.
?S:.
?C:I_MALLOCMALLOC:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <malloc/malloc.h>.
?C:.
?H:#$i_mallocmalloc I_MALLOCMALLOC  /**/
?H:.
?LINT:set i_mallocmalloc
: see if malloc/malloc.h has to be included
set malloc/malloc.h i_mallocmalloc
eval
 $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_mallocmalloc.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Typedef.U,v 3.0.1.3 1995/07/25 13:42:07 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Typedef.U,v $
?RCS: Revision 3.0.1.3  1995/07/25  13:42:07  ram
?RCS: patch56: added backslash escapes within evals to prevent space problems
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:01:16  ram
?RCS: patch36: don't clobber visible 'val' variable, use 'varval' instead
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:05:14  ram
?RCS: patch32: created
?RCS:
?X:
?X: This unit checks for the definition of a given typedef.
?X:
?X: To use it, say:
?X: set typedef
 val_t default [includes]
?X: eval $typedef
?X:
?MAKE:Typedef: cppstdin cppminus cppflags rm sed contains Oldconfig Myread
?MAKE: -pick add $@ %<
?LINT:define typedef
?LINT:define typedef_ask
?V:typedef typedef_ask
?S:typedef:
?S: This shell variable is used internally by Configure to check
?S: whether a given typedef is defined or not. A typical use is:
?S:  set typedef val_t default [includes]
?S:  eval $typedef
?S: That will return val_t set to default if the typedef was not found,
?S: to typedef otherwise. If no includes are specified, look in sys/types.h.
?S:.
?S:typedef_ask:
?S: This shell variable is used internally by Configure to check
?S: whether a given typedef is defined or not.  If it is not defined,
?S: this will call the ./myread script to prompt for an answer.
?S: It is intended to be used to avoid unnecessary prompts.
```

```
?S: A typical use is
?S:  rp="What is the type for file position used by fsetpos()?"
?S:  set fpos_t fpostype long stdio.h sys/types.h
?S:  eval $typedef_ask
?S: This
 will set fpostype=fpos_t, if fpos_t is available.  Otherwise
?S: it will call myread with a default of 'long', and a prompt of $rp.
?S:.
?T:type var def inclist varval inc
?F:!temp.c
: define an is-a-typedef? function
typedef='type=$1; var=$2; def=$3; shift; shift; shift; inclist=$@;
case "$inclist" in
"") inclist="sys/types.h";;
esac;
eval "varval=\$$var";
case "$varval" in
"")
 $rm -f temp.c;
 for inc in $inclist; do
  echo "#include <$inc>" >>temp.c;
 done;
?X: Maybe it's a #define instead of a typedef.
 echo "#ifdef $type" >> temp.c;
 echo "printf(\"We have $type\");" >> temp.c;
 echo "#endif" >> temp.c;
 $cppstdin $cppflags $cppminus < temp.c >temp.E 2>/dev/null;
 if $contains $type temp.E >/dev/null 2>&1; then
  eval "$var=\$type";
 else
  eval "$var=\$def";
 fi;
 $rm -f temp.?;;
*) eval "$var=\$varval";;
esac'

?X: Originally, I eval'd $typedef and then checked the results against
?X: $type.  Unfortunately, it then became complicated to check
?X: whether you are re-using
 an old config.sh value, and the logic got
?X: so convoluted it became easier to just copy the function above
?X: and alter it slightly.  A.D.  3/1998
: define an is-a-typedef? function that prompts if the type is not available.
typedef_ask='type=$1; var=$2; def=$3; shift; shift; shift; inclist=$@;
case "$inclist" in
"") inclist="sys/types.h";;
esac;
eval "varval=\$$var";
```

```
case "$varval" in
"")
 $rm -f temp.c;
 for inc in $inclist; do
  echo "#include <$inc>" >>temp.c;
 done;
?X: Maybe it's a #define instead of a typedef.
 echo "#ifdef $type" >> temp.c;
 echo "printf(\"We have $type\");" >> temp.c;
 echo "#endif" >> temp.c;
 $cppstdin $cppflags $cppminus < temp.c >temp.E 2>/dev/null;
 echo " " ;
 echo "$rp" | $sed -e "s/What is/Looking for/" -e "s/?/./";
 if $contains $type temp.E >/dev/null 2>&1; then
  echo "$type found." >&4;
  eval "$var=\$type";
 else
  echo "$type NOT found." >&4;
  dflt="$def";
  . ./myread ;
  eval "$var=\$ans";
 fi;
 $rm -f temp.?;;
*) eval "$var=\$varval";;
esac'
```

Found
 in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/Typedef.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_tcstpgrp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_tcstpgrp.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:12:11  ram
?RCS: patch32: created by ADO
?RCS:
```

```
?MAKE:d_tcsetpgrp: Inlibc
?MAKE: -pick add $@ %<
?S:d_tcsetpgrp:
?S: This variable conditionally defines the HAS_TCSETPGRP symbol, which
?S: indicates to the C program that the tcsetpgrp() routine is available
?S: to set foreground process group ID.
?S:.
?C:HAS_TCSETPGRP
 :
?C: This symbol, if defined, indicates that the tcsetpgrp routine is
?C: available to set foreground process group ID.
?C:.
?H:#$d_tcsetpgrp HAS_TCSETPGRP  /**/
?H:.
?LINT:set d_tcsetpgrp
: see if tcsetpgrp exists
set tcsetpgrp d_tcsetpgrp
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_tcstpgrp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_erfc: Inlibc
?MAKE: -pick add $@ %<
?S:d_erfc:
?S: This variable conditionally defines the HAS_ERFC symbol, which
?S: indicates to the C program that the erfc() routine is available.
?S:.
?C:HAS_ERFC:
?C: This symbol, if defined, indicates that the erfc routine is
?C: available to do the complementary error function.
?C:.
?H:#$d_erfc HAS_ERFC  /**/
?H:.
?LINT:set d_erfc
: see if erfc exists
set erfc d_erfc
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_erfc.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_niin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_niin.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit looks wether <netinet/in.h> is available or not
?X:
?MAKE:i_niin i_sysin: Inhdr
?MAKE: -pick add $@ %<
?S:i_niin:
?S: This variable conditionally defines I_NETINET_IN, which indicates
?S: to the C program that it should include <netinet/in.h>. Otherwise,
?S: you may try <sys/in.h>.
?S:.
?S:i_sysin:
?S: This variable conditionally
 defines I_SYS_IN, which indicates
?S: to the C program that it should include <sys/in.h> instead of
?S: <netinet/in.h>.
?S:.
?C:I_NETINET_IN:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <netinet/in.h>. Otherwise, you may try <sys/in.h>.
?C:.
?C:I_SYS_IN (I_SYSIN):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/in.h> instead of <netinet/in.h>.
?C:.
?H:#$i_niin I_NETINET_IN /**/
?H:#$i_sysin I_SYS_IN  /**/
?H:.
?LINT:set i_niin i_sysin
: see if this is a netinet/in.h or sys/in.h system
set netinet/in.h i_niin sys/in.h i_sysin
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_niin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: man3dir.U,v 3.1 1999/07/08 20:52:19 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1996-1999, Andy Dougherty
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: man3dir.U,v $
?RCS: Revision 3.1  1999/07/08 20:52:19  doughera
?RCS: Updated for perl5.005_5x
?RCS:
?RCS: Revision 3.0.1.1  1997/02/28  16:10:34  ram
?RCS: patch61: created
?RCS:
?X: This was originally specific to perl5.  Since perl5 has man pages that
?X: go in both man1/ and man3/ directories, we need both man1dir
?X: and man3dir.  This unit is basically dist's mansrc.U with
?X: man3 used instead
 of man everywhere.
?X: I then added various tests because perl5 has *lots* of man3
?X: pages with long file names. -- ADO
?X:
?MAKE:man3dir man3direxp man3ext installman3dir: cat nroff Loc Oldconfig \
 sed man1dir spackage package Getfile Setprefixvar Prefixit Prefixup \
 d_flexfnam privlib Myread test
?MAKE: -pick add $@ %<
?Y:TOP
?D:man3dir=''
?S:man3dir:
?S: This variable contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?D:man3direxp=''
?S:man3direxp:
?S: This variable is the same as the man3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
```

```
?D:installman3dir="
?S:installman3dir:
?S: This variable is really the same as man3direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man3direxp only
 points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:man3ext:
?S: This variable contains the extension that the manual page should
?S: have: one of 'n', 'l', or '3'.  The Makefile must supply the '.'.
?S: See man3dir.
?S:.
?T:prog tdflt
?LINT:change prefixvar
?LINT:set man3direxp
: determine where library module manual pages go
set man3dir man3dir none
eval $prefixit
$cat <<EOM

$spackage has manual pages for many of the library modules.
EOM

case "$nroff" in
nroff)
 $cat <<'EOM'
However, you don't have nroff, so they're probably useless to you.
EOM
 case "$man3dir" in
 ") man3dir="none";;
 esac;;
esac

case "$d_flexfnam" in
undef)
 $cat <<'EOM'
However, your system can't handle the long file names like File::Basename.3.
EOM
 case "$man3dir" in
 ") man3dir="none";;
 esac;;
esac

echo "If you don't want the manual sources installed, answer 'none'."
?X: In 5.005_57 and earlier, I had the following notes:
?X:
```

```
 We do not use /usr/local/man/man3 because some man programs will
?X: only show the /usr/local/man/man3 contents, and not the system ones,
?X: thus man less will show the perl module less.pm, but not the system
?X: less command.  We might also conflict with Tcl man pages.
?X: However, something like /opt/perl/man/man3 is fine.
?X:
?X: However, opinion seems to be shifting such that 'man POSIX' ought
?X: to just work.  -- Andy Dougherty  July 8, 1999
?X:
?X: remove any trailing -3.0 or other version indication from $package
prog=`echo $package | $sed 's/-*[0-9.]*$//'`
case "$man3dir" in
") dflt=`echo "$man1dir" | $sed -e 's/man1/man3/g' -e 's/man\.1/man\.3/g'`
 if $test -d "$privlib/man/man3"; then
  cat <<EOM >&4

WARNING:  Previous versions of perl installed man3 pages into
$privlib/man/man3.  This version will suggest a
new default of $dflt.
EOM
  tdflt=$dflt
  dflt='n'
  rp='Do you wish to preserve the old behavior?(y/n)'
  . ./myread
  case "$ans" in
  y*) dflt="$privlib/man/man3"
 ;;
  *)  dflt=$tdflt ;;
  esac
   fi
 ;;
*) dflt="$man3dir" ;;
esac
case "$dflt" in
' ') dflt=none ;;
esac
echo " "
fn=dn+~
rp="Where do the $package library man pages (source) go?"
. ./getfile
prefixvar=man3dir
. ./setprefixvar

case "$man3dir" in
") man3dir=' '
 installman3dir=";;
esac
```

```
: What suffix to use on installed man pages
case "$man3dir" in
' ')
 man3ext='0'
 ;;
*)
 rp="What suffix should be used for the $package library man pages?"
 case "$man3ext" in
 '') case "$man3dir" in
  *3)  dflt=3 ;;
  *3p) dflt=3p ;;
  *3pm) dflt=3pm ;;
  *l) dflt=l;;
  *n) dflt=n;;
  *o) dflt=o;;
  *p) dflt=p;;
  *C) dflt=C;;
  *L) dflt=L;;
  *L3) dflt=L3;;
  *) dflt=3;;
  esac
  ;;
 *) dflt="$man3ext";;
 esac
 . ./myread
 man3ext="$ans"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/man3dir.U
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```
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: abortsig.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:02:19  ram
?RCS: patch36: call ./usg explicitly instead of relying on PATH
?RCS:
```

```
?RCS: Revision 3.0  1993/08/18  12:05:20  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:abortsig: Myread Oldconfig Guess cat +cc ccflags rm
?MAKE: -pick add $@ %<
?S:abortsig:
?S: This variable holds the name of the signal used by the abort() call.
?S:.
?C:ABORTSIG:
?C: This symbol holds the signal number (symbol) used by the abort() call. To
?C: actually
 define the signal symbol, <signal.h> should be included.
?C:.
?H:#define ABORTSIG $abortsig  /**/
?H:.
?T:signal
: which signal is sent by abort ?
echo " "
case "$abortsig" in
")
 echo "Checking to see which signal is sent to the process by abort()..." >&4
 echo "abort" > abort.sh
 chmod +x abort.sh
?X: SIGABRT should replace SIGIOT on USG machines in a near future (1991).
 for signal in SIGIOT SIGILL SIGABRT; do
  case "$abortsig" in
  ") $cat >abort.c <<EOP
/* FIXME: Missing #include <stdlib.h>*/
#include <signal.h>
caught() { exit(0); } /* FIXME: Use _exit() or _Exit() in signal handler  */
int main()
{
#ifdef $signal
 signal($signal, caught);
#endif
 if (-1 == abort())
  exit(1);
 exit(1);
}
EOP
?X: We have to use the abort.sh script otherwise sh behaves strangely on AIX.
   if $cc $ccflags -o abort abort.c >/dev/null 2>&1; then
    (./abort.sh) >/dev/null 2>&1
    case $? in
    0) abortsig="$signal";;
    esac
   fi
   ;;
```

```
  esac
 done
 ;;
esac
case "$abortsig" in
") echo
 "(I wasn't able to compute the signal name--guessing)"
 if ./usg; then
  dflt="SIGIOT"
 else
  dflt="SIGILL"
 fi;;
*)  dflt="$abortsig"
 ;;
esac
rp="Which signal does abort() send to the process (signal name)?"
. ./myread
abortsig="$ans"
$rm -f core abort.sh abort abort.c
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/abortsig.U
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```
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getcwd: Inlibc
?MAKE: -pick add $@ %<
?S:d_getcwd:
?S: This variable conditionally defines the HAS_GETCWD symbol, which
?S: indicates to the C program that the getcwd() routine is available
?S: to get the current working directory.
?S:.
?C:HAS_GETCWD :
?C: This symbol, if defined, indicates that the getcwd routine is
?C: available to get the current working directory.
?C:.
?H:#$d_getcwd HAS_GETCWD  /**/
?H:.
?LINT:set d_getcwd
: see if getcwd exists
set getcwd d_getcwd
```

```
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_getcwd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_getpent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getpent: Inlibc
?MAKE: -pick add $@ %<
?S:d_getpent:
?S: This variable conditionally defines HAS_GETPROTOENT if getprotoent() is
?S: available to look up protocols in some data base or another.
?S:.
?C:HAS_GETPROTOENT:
?C: This symbol, if defined, indicates that the getprotoent() routine is
?C: available to look up protocols in some data base
 or another.
?C:.
?H:#$d_getpent HAS_GETPROTOENT  /**/
?H:.
?LINT:set d_getpent
: see if getprotoent exists
set getprotoent d_getpent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_getpent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: prefix.U,v 3.1 1999/07/08 18:27:51 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
```

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: prefix.U,v $
?RCS: Revision 3.1  1999/07/08 18:27:51  doughera
?RCS: 5.005_5x version -- Andy Dougherty
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:44:05  ram
?RCS: patch49: new prefixexp variable holding a fully expanded prefix
?RCS: patch49: save off previous prefix value in oldprefix if changed (WED)
?RCS: patch49: added the INSTALLPREFIX define for C programs to use (WED)
?RCS:
?RCS:
 Revision 3.0.1.1  1994/08/29  16:31:34  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:prefix prefixexp +oldprefix: Getfile Loc Oldconfig cat package
?MAKE: -pick add $@ %<
?S:prefix:
?S: This variable holds the name of the directory below which the
?S: user will install the package.  Usually, this is /usr/local, and
?S: executables go in /usr/local/bin, library stuff in /usr/local/lib,
?S: man pages in /usr/local/man, etc.  It is only used to set defaults
?S: for things in bin.U, mansrc.U, privlib.U, or scriptdir.U.
?S:.
?S:prefixexp:
?S: This variable holds the full absolute path of the directory below
?S: which the user will install the package.  Derived from prefix.
?S:.
?S:oldprefix:
?S: This variable is set non-null if the prefix was previously defined
?S: and gets set to a new value. Used internally by Configure only.
?S:.
?C:INSTALLPREFIX:
?C: This symbol contains the name of the install prefix for this package.
?C:.
?H:#define INSTALLPREFIX "$prefix"  /**/
?H:.
:
 determine root of directory hierarchy where package will be installed.
case "$prefix" in
") dflt=`./loc . /usr/local /usr/local /local /opt /usr`
 ;;
```

```
*) dflt="$prefix"
 ;;
esac
$cat <<EOM

By default, $package will be installed in $dflt/bin, manual pages
under $dflt/man, etc..., i.e. with $dflt as prefix for all
installation directories. Typically this is something like /usr/local.
If you wish to have binaries under /usr/bin but other parts of the
installation under /usr/local, that's ok: you will be prompted
separately for each of the installation directories, the prefix being
only used to set the defaults.

EOM
fn=d~
rp='Installation prefix to use?'
. ./getfile
oldprefix=''
case "$prefix" in
'') ;;
*) case "$ans" in
 "$prefix") ;;
 *) oldprefix="$prefix";;
 esac
 ;;
esac

case "$ans" in
*?/) prefix=`echo "$ans" | sed 's/.$//'`
 ;;
*) prefix="$ans"
esac

case "$ansexp" in
*?/) prefixexp=`echo "$ansexp" | sed 's/.$//'`
 ;;
*) prefixexp="$ansexp"
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/prefix.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dup2.C,v 3.0.1.1 1994/01/24 13:58:37 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
*
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*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* Original Author: Larry Wall <lwall@netlabs.com>
*
* $Log: dup2.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:37  ram
* patch16: created
*
*/
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/lib/C/fake/dup2.C
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtouq: Inlibc cat Compile run
?MAKE: -pick add $@ %<
?S:d_strtouq:
?S: This variable conditionally defines the HAS_STRTOUQ symbol, which
?S: indicates to the C program that the strtouq() routine is available.
?S:.
?C:HAS_STRTOUQ:
?C: This symbol, if defined, indicates that the strtouq routine is
?C: available to convert strings to unsigned long longs (quads).
?C:.
?H:#$d_strtouq HAS_STRTOUQ  /**/
?H:.
?F:!try
: see if strtouq exists
set strtouq d_strtouq
eval $inlibc

case "$d_strtouq" in
"$define")
 $cat <<EOM
Checking whether your strtouq() works okay...
```

```
EOM
 $cat >try.c <<'EOCP'
#include <stdlib.h>
#include <errno.h>
#include <stdio.h>
static int bad = 0;
void check(const char *s, unsigned
 long long eull, int een) {
 unsigned long long gull;
 errno = 0;
 gull = strtouq(s, 0, 10);
 if (!((gull == eull) && (errno == een)))
  bad++;
}
int main() {
 check(" 1",                                1LL, 0);
 check(" 0",                                0LL, 0);
 check("18446744073709551615",  18446744073709551615ULL, 0);
 check("18446744073709551616",  18446744073709551615ULL, ERANGE);
#if 0 /* strtouq() for /^-/ strings is undefined. */
 check("-1",                  18446744073709551615ULL, 0);
 check("-18446744073709551614",                  2LL, 0);
 check("-18446744073709551615",                  1LL, 0);
 check("-18446744073709551616", 18446744073709551615ULL, ERANGE);
 check("-18446744073709551617", 18446744073709551615ULL, ERANGE);
#endif
 if (!bad)
  printf("ok\n");
 return 0;
}
EOCP
 set try
 if eval $compile; then
  case "`$run ./try`" in
  ok) echo "Your strtouq() seems to be working okay." ;;
  *) cat <<EOM >&4
Your strtouq() doesn't seem to be working
 okay.
EOM
     d_strtouq="$undef"
     ;;
  esac
 else
  echo "(I can't seem to compile the test program--assuming it doesn't)"
  d_strtouq="$undef"
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strtouq.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_sqrtl: Inlibc
?MAKE: -pick add $@ %<
?S:d_sqrtl:
?S: This variable conditionally defines the HAS_SQRTL symbol, which
?S: indicates to the C program that the sqrtl() routine is available.
?S:.
?C:HAS_SQRTL:
?C: This symbol, if defined, indicates that the sqrtl routine is
?C: available to do long double square roots.
?C:.
?H:#$d_sqrtl HAS_SQRTL  /**/
?H:.
?LINT:set d_sqrtl
: see if sqrtl exists
set sqrtl d_sqrtl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_sqrtl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getgrent.U,v $
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_getgrent.U,v $
?RCS:
?MAKE:d_getgrent: Inlibc
?MAKE: -pick add $@ %<
?S:d_getgrent:
?S: This variable conditionally defines the HAS_GETGRENT symbol, which
```

```
?S: indicates to the C program that the getgrent() routine is available
?S: for sequential access of the group database.
?S:.
?C:HAS_GETGRENT:
?C: This symbol, if defined, indicates that the getgrent routine is
?C: available for sequential access of the group database.
?C:.
?H:#$d_getgrent HAS_GETGRENT  /**/
?H:.
?LINT:set d_getgrent
: see if getgrent exists
set getgrent d_getgrent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_getgrent.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:siteman1dir siteman1direxp installsiteman1dir: Getfile \
 Setprefixvar prefix siteprefix man1dir sed
?MAKE: -pick add $@ %<
?Y:TOP
?D:siteman1dir=''
?S:siteman1dir:
?S: This variable contains the name of the directory in which site-specific
?S: manual source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S: The standard distribution will put nothing in this directory.
?S: After perl
 has been installed, users may install their own local
?S: man1 pages in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:siteman1direxp=''
?S:siteman1direxp:
```

```
?S: This variable is the same as the siteman1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsiteman1dir=''
?S:installsiteman1dir:
?S: This variable is really the same as siteman1direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man1direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installsiteman1dir
?LINT:set siteman1dir
?LINT:set siteman1direxp
: determine where add-on manual pages go
case "$siteman1dir" in
'') dflt=`echo $man1dir | $sed "s#^$prefix#$siteprefix#"` ;;
*) dflt=$siteman1dir ;;
esac
case "$dflt" in
'|' ') dflt=none ;;
esac
fn=dn+~
rp='Pathname
 where the site-specific manual pages should be installed?'
. ./getfile
prefixvar=siteman1dir
. ./setprefixvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/siteman1dir.U
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```
?RCS: $Id: d_ftime.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_ftime.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:06  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:d_ftime d_gettimeod: Inlibc Setvar
?MAKE: -pick add $@ %<
?S:d_ftime:
?S: This variable conditionally defines the HAS_FTIME symbol, which indicates
?S: that the ftime() routine exists.  The ftime() routine is basically
?S: a sub-second accuracy clock.
?S:.
?S:d_gettimeod:
?S: This variable conditionally defines the HAS_GETTIMEOFDAY symbol,
 which
?S: indicates that the gettimeofday() system call exists (to obtain a
?S: sub-second accuracy clock). You should probably include <sys/resource.h>.
?S:.
?C:HAS_FTIME (FTIMER):
?C: This symbol, if defined, indicates that the ftime() routine exists.
?C: It is basically a sub-second accuracy clock, but is less accurate
?C: than gettimeofday(2) anyway. The type "Timeval" should be used to
?C: refer to "struct timeb".
?C:.
?C:HAS_GETTIMEOFDAY (GETTIMEOFDAY):
?C: This symbol, if defined, indicates that the gettimeofday() system
?C: call is available for a sub-second accuracy clock. Usually, the file
?C: <sys/resource.h> needs to be included (see I_SYS_RESOURCE).
?C: The type "Timeval" should be used to refer to "struct timeval".
?C:.
?H:#$d_ftime HAS_FTIME  /**/
?H:#$d_gettimeod HAS_GETTIMEOFDAY /**/
?H:?%<:@if HAS_FTIME
?H:?%<:#ifdef HAS_FTIME
?H:?%<:#define Timeval struct timeb  /* Structure used by ftime() */
?H:?%<:#endif
?H:?%<:@end
?H:?%<:@if HAS_GETTIMEOFDAY
?H:?%<:#ifdef HAS_GETTIMEOFDAY
?H:?%<:#define
 Timeval struct timeval /* Structure used by gettimeofday() */
?H:?%<:#endif
?H:?%<:@end
?H:.
?X:FIXME
?X:?I:?d_ftime:i_systimeb
?X:?I:?d_gettimeod:i_sysresrc
?LINT:set d_gettimeod d_ftime
?LINT:known Timeval
: see if gettimeofday or ftime exists
?X:
?X: Give priority to gettimeofday(2) because timing is more accurate
?X:
```

```
set gettimeofday d_gettimeod
eval $inlibc
case "$d_gettimeod" in
"$undef")
 set ftime d_ftime
 eval $inlibc
 ;;
*)
 val="$undef"; set d_ftime; eval $setvar
 ;;
esac
case "$d_gettimeod$d_ftime" in
"$undef$undef")
 echo " "
 echo 'No ftime() nor gettimeofday() -- timing may be less accurate.' >&4
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_ftime.U
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```
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?RCS:
?MAKE:d_ftello: Inlibc longsize
?MAKE: -pick add $@ %<
?S:d_ftello:
?S: This variable conditionally defines the HAS_FTELLO symbol, which
?S: indicates to the C program that the ftello() routine is available.
?S:.
?C:HAS_FTELLO:
?C: This symbol, if defined, indicates that the ftello routine is
?C: available to ftell beyond 32 bits (useful for ILP32 hosts).
?C:.
?H:#$d_ftello HAS_FTELLO  /**/
?H:.
?LINT:set d_ftello
: see if ftello exists
set ftello d_ftello
eval $inlibc
case "$longsize" in
8) echo "(Your long is 64 bits, so you could use ftell.)" ;;
```

esac

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_ftello.U
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?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_dup3: Inlibc
?MAKE: -pick add $@ %<
?S:d_dup3:
?S: This variable conditionally defines HAS_DUP3 if dup3() is
?S: available to duplicate file descriptors.
?S:.
?C:HAS_DUP3:
?C: This symbol, if defined, indicates that the dup3 routine is
?C: available to duplicate file descriptors.
?C:.
?H:#$d_dup3 HAS_DUP3 /**/
?H:.
?LINT:set d_dup3
: see if dup3 exists
set dup3 d_dup3
eval $inlibc

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_dup3.U
No license file was found, but licenses were detected in source scan.

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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_class: Inlibc
?MAKE: -pick add $@ %<
?S:d_class:
?S: This variable conditionally defines the HAS_CLASS symbol, which

```
?S: indicates to the C program that the class() routine is available.
?S:.
?C:HAS_CLASS:
?C: This symbol, if defined, indicates that the class routine is
?C: available to classify doubles.  Available for example in AIX.
?C: The returned values are defined in <float.h> and are:
?C:
?C: FP_PLUS_NORM Positive normalized, nonzero
?C: FP_MINUS_NORM Negative normalized, nonzero
?C: FP_PLUS_DENORM Positive denormalized, nonzero
?C: FP_MINUS_DENORM Negative denormalized, nonzero
?C: FP_PLUS_ZERO +0.0
?C: FP_MINUS_ZERO -0.0
?C: FP_PLUS_INF +INF
?C: FP_MINUS_INF -INF
?C: FP_NANS  Signaling
 Not a Number (NaNS)
?C: FP_NANQ  Quiet Not a Number (NaNQ)
?C:.
?H:#$d_class HAS_CLASS  /**/
?H:.
?LINT:set d_class
: see if class exists
set class d_class
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_class.U
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?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_gconvert.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:33:38  ram
?RCS: patch61: integrated new unit from perl5
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  13:55:59  ram
```

```
?RCS: patch56: improved comments about the Gconvert macro (ADO)
?RCS: patch56: force compile-link test since it may exist but be unusable (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:12:51  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_Gconvert:
 cat cc ccflags ldflags libs rm_try _o
?MAKE: -pick add $@ %<
?S:d_Gconvert:
?S: This variable holds what Gconvert is defined as to convert
?S: floating point numbers into strings. It could be 'gconvert'
?S: or a more complex macro emulating gconvert with gcvt() or sprintf.
?S:.
?C:Gconvert:
?C: This preprocessor macro is defined to convert a floating point
?C: number to a string without a trailing decimal point.  This
?C: emulates the behavior of sprintf("%g"), but is sometimes much more
?C: efficient.  If gconvert() is not available, but gcvt() drops the
?C: trailing decimal point, then gcvt() is used.  If all else fails,
?C: a macro using sprintf("%g") is used. Arguments for the Gconvert
?C: macro are: value, number of digits, whether trailing zeros should
?C: be retained, and the output buffer.
?C: Possible values are:
?C:  d_Gconvert='gconvert((x),(n),(t),(b))'
?C:  d_Gconvert='gcvt((x),(n),(b))'
?C:  d_Gconvert='sprintf((b),"%.*g",(n),(x))'
?C: The last two assume trailing zeros should
 not be kept.
?C:.
?H:#define Gconvert(x,n,t,b) $d_Gconvert
?H:.
?T: xxx_list xxx_convert
?F:!try
?X:
: Check how to convert floats to strings.
echo " "
echo "Checking for an efficient way to convert floats to strings."
?X: We want to be sure to drop trailing decimal points (perl5
?X: needs this).
$cat >try.c <<'EOP'
#ifdef TRY_gconvert
#define Gconvert(x,n,t,b) gconvert((x),(n),(t),(b))
char *myname = "gconvert";
#endif
#ifdef TRY_gcvt
#define Gconvert(x,n,t,b) gcvt((x),(n),(b))
char *myname = "gcvt";
```

```
#endif
#ifdef TRY_sprintf
#define Gconvert(x,n,t,b) sprintf((b),"%.*g",(n),(x))
char *myname = "sprintf";
#endif

#include <stdio.h>

int
checkit(expect, got)
char *expect;
char *got;
{
   if (strcmp(expect, got)) {
  printf("%s oddity:  Expected %s, got %s\n",
   myname, expect, got);
  exit(1);
 }
}

int
int main()
{
 char buf[64];
 buf[63] = '\0';

 /* This must be 1st test on (which?) platform */
 /* Alan Burlison <AlanBurlsin@unn.unisys.com> */
 Gconvert(0.1, 8, 0, buf);
 checkit("0.1",
 buf);

 Gconvert(1.0, 8, 0, buf);
 checkit("1", buf);

 Gconvert(0.0, 8, 0, buf);
 checkit("0", buf);

 Gconvert(-1.0, 8, 0, buf);
 checkit("-1", buf);

 /* Some Linux gcvt's give 1.e+5 here. */
 Gconvert(100000.0, 8, 0, buf);
 checkit("100000", buf);

 /* Some Linux gcvt's give -1.e+5 here. */
 Gconvert(-100000.0, 8, 0, buf);
 checkit("-100000", buf);
```

```
 exit(0);
}
EOP
?X: List of order in which to search for functions.
?X: Usual order of efficiency is gconvert gcvt sprintf
?X: Respect a previous or hinted value.
case "$d_Gconvert" in
gconvert*) xxx_list='gconvert gcvt sprintf' ;;
gcvt*) xxx_list='gcvt gconvert sprintf' ;;
sprintf*) xxx_list='sprintf gconvert gcvt' ;;
*) xxx_list='gconvert gcvt sprintf' ;;
esac

for xxx_convert in $xxx_list; do
 echo "Trying $xxx_convert"
 $rm_try
 if $cc $ccflags -DTRY_$xxx_convert $ldflags -o try \
  try.c $libs > /dev/null 2>&1 ; then
  echo "$xxx_convert" found. >&4
  if ./try; then
   echo "I'll use $xxx_convert to convert floats
 into a string." >&4
   break;
  else
   echo "...But $xxx_convert didn't work as I expected."
  fi
 else
  echo "$xxx_convert NOT found." >&4
 fi
done

case "$xxx_convert" in
gconvert) d_Gconvert='gconvert((x),(n),(t),(b))' ;;
gcvt) d_Gconvert='gcvt((x),(n),(b))' ;;
*) d_Gconvert='sprintf((b),"%.*g",(n),(x))' ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_gconvert.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Thomas Neumann <tom@smart.bo.open.de>
?RCS:
?RCS: $Log: Findhdr.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  15:53:08  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:03:56  ram
?RCS: patch23: cppminus must be after other cppflags, not before
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a findhdr script which is used to locate the header
?X: files
 in $usrinc or other stranger places using cpp capabilities. The
?X: script is given an include file base name, like 'stdio.h' or 'sys/file.h'
?X: and it returns the full path of the include file and a zero status or an
?X: empty string with an error status if the file could not be located.
?X:
?MAKE:Findhdr: grep test tr rm +usrinc awk cat startsh \
 cppstdin cppminus +cppflags eunicefix osname
?MAKE: -pick add $@ %<
?LINT:define fieldn
?S:fieldn:
?S: This variable is used internally by Configure. It contains the position
?S: of the included file name in cpp output. That is to say, when cpp
?S: pre-processes a #include <file> line, it replaces it by a # line which
?S: contains the original position in the input file and the full name of
?S: included file, between "quotes".
?S:.
?V:fieldn
?F:./findhdr !fieldn
?T:cline pos wanted name awkprg cppfilter testaccess status usrincdir
: determine filename position in cpp output
echo " "
echo "Computing filename position in cpp output for #include
 directives..." >&4
echo '#include <stdio.h>' > foo.c
case "$osname" in
vos)
 testaccess=-e
?X: VOS: path component separator is >
```

```
 cppfilter="tr '\\\\>' '/' |"
 ;;
*)
 testaccess=-r
 cppfilter="
 ;;
esac
$cat >fieldn <<EOF
$startsh
$cppstdin $cppflags $cppminus <foo.c 2>/dev/null | \
$grep '^[  ]*#.*stdio\.h' | \
while read cline; do
 pos=1
 set \$cline
 while $test \$# -gt 0; do
  if $test $testaccess \`echo \$1 | $tr -d ""\`; then
   echo "\$pos"
   exit 0
  fi
  shift
  pos=\`expr \$pos + 1\`
 done
done
EOF
chmod +x fieldn
fieldn=`./fieldn`
$rm -f foo.c fieldn
case $fieldn in
") pos='???';;
1) pos=first;;
2) pos=second;;
3) pos=third;;
*) pos="${fieldn}th";;
esac
echo "Your cpp writes the filename in the $pos field of the line."

?X: To locate a header file, we cannot simply check for $usrinc/file.h, since
?X: some machine have the headers in weird places and our only hope is that
?X: the C pre-processor will know how to find those headers. Thank you NexT!
: locate header file
$cat
 >findhdr <<EOF
$startsh
wanted=\$1
name="
for usrincdir in $usrinc; do
 if test -f \$usrincdir/\$wanted; then
  echo "\$usrincdir/\$wanted"
```

```
  exit 0
 fi
done
awkprg='{ print \$$fieldn }'
echo "#include <\$wanted>" > foo\$\$.c
$cppstdin $cppminus $cppflags < foo\$\$.c 2>/dev/null | \
$cppfilter $grep "^[  ]*#.*\$wanted" | \
while read cline; do
 name=\`echo \$cline | $awk "\$awkprg" | $tr -d ""\`
 case "\$name" in
 *[/\\\]\$wanted) echo "\$name"; exit 1;;
 *[\\\/]\$wanted) echo "\$name"; exit 1;;
 *) exit 2;;
 esac
done
?X: status = 0: grep returned 0 lines, case statement not executed
?X: status = 1: headerfile found
?X: status = 2: while loop executed, no headerfile found
status=\$?
$rm -f foo\$\$.c
if test \$status -eq 1; then
 exit 0
fi
exit 1
EOF
chmod +x findhdr
$eunicefix findhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Findhdr.U
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```
?RCS: $Id: html1dir.U,v $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: html1dir.U,v $
?RCS:
?MAKE:html1dir html1direxp installhtml1dir: cat Loc Myread \
 spackage test Getfile Setprefixvar Prefixit Prefixup
?MAKE: -pick add $@ %<
```

```
?Y:TOP
?D:html1dir=''
?S:html1dir:
?S: This variable contains the name of the directory in which html
?S: source pages are to be put.  This directory is for pages
?S: that describe whole programs, not libraries or modules.  It
?S: is intended to correspond roughly to section 1 of the Unix
?S: manuals.
?S:.
?D:html1direxp=''
?S:html1direxp:
?S: This
 variable is the same as the html1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installhtml1dir=''
?S:installhtml1dir:
?S: This variable is really the same as html1direxp, unless you are
?S: using a different installprefix.  For extra portability, you
?S: should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set html1direxp
?LINT:set installhtml1dir
: determine where html pages for programs go
set html1dir html1dir none
eval $prefixit
$cat <<EOM

If you wish to install html files for programs in $spackage, indicate
the appropriate directory here.  To skip installing html files,
answer "none".
EOM
case "$html1dir" in
''|none|$undef|' ') dflt=none ;;
*) dflt=$html1dir ;;
esac
fn=dn+~
rp="Directory for the main $spackage html pages?"
. ./getfile
prefixvar=html1dir
. ./setprefixvar
: Use ' ' for none so value is preserved next time through Configure
$test X"$html1dir" = "X" && html1dir=' '

Found
 in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
```

5.36.0/U/installdirs/html1dir.U
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```
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?RCS:
?MAKE:d_cplusplus: Compile Setvar run cat rm_try
?MAKE: -pick add $@ %<
?S:d_cplusplus (d_cplusplus.U):
?S: This variable conditionally defines the USE_CPLUSPLUS symbol, which
?S: indicates that a C++ compiler was used to compiled Perl and will be
?S: used to compile extensions.
?S:.
?C:USE_CPLUSPLUS:
?C: This symbol, if defined, indicates that a C++ compiler was
?C: used to compiled Perl and will be used to compile extensions.
?C:.
?H:#$d_cplusplus USE_CPLUSPLUS  /**/
?H:.
?F:!try
?LINT:set d_cplusplus
: Check if we are using C++
echo " "
echo "Checking for C++..." >&4
$cat >try.c <<'EOCP'
#include <stdio.h>
int main(void)
{
#ifdef __cplusplus
   return 0;
#else
   return 1;
#endif
}
EOCP
set try
if eval $compile_ok
 && $run ./try; then
 val="$define"
 echo "You are using a C++ compiler."
else
 val="$undef"
 echo "You are not using a C++ compiler."
fi
$rm_try cplusplus$$
set d_cplusplus
```

```
eval $setvar

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_cplusplus.U
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?RCS: $Id: i_fcntl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_fcntl.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:18  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_fcntl: h_fcntl h_sysfile +i_sysfile Inhdr Setvar
?MAKE: -pick add $@ %<
?S:i_fcntl:
?S: This variable controls the value of I_FCNTL (which tells
?S: the C program to include <fcntl.h>).
?S:.
?C:I_FCNTL (HDR_O_STUFF FCNTL):
?C: This manifest constant tells the C program to include <fcntl.h>.
?C:.
?H:#$i_fcntl I_FCNTL /**/
?H:.
?T:val
?X:
 Make line lists +i_sysfile to ensure tests for <sys/file.h> will be
?X: conducted prior tests for <fcntl.h>, hece making sure the h_sysfile
?X: variable is correctly set when we reach that unit.
?LINT:set i_fcntl
?LINT:use i_sysfile
?LINT:change h_fcntl
: see if fcntl.h is there
val=''
set fcntl.h val
eval $inhdr

: see if we can include fcntl.h
case "$val" in
"$define")
```

```
 echo " "
 if $h_fcntl; then
  val="$define"
  echo "We'll be including <fcntl.h>." >&4
 else
  val="$undef"
  if $h_sysfile; then
 echo "We don't need to include <fcntl.h> if we include <sys/file.h>." >&4
  else
   echo "We won't be including <fcntl.h>." >&4
  fi
 fi
 ;;
*)
 h_fcntl=false
 val="$undef"
 ;;
esac
set i_fcntl
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_fcntl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: scriptdir.U,v 3.1 1999/07/09 18:20:13 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: scriptdir.U,v $
?RCS: Revision 3.1  1999/07/09 18:20:13  doughera
?RCS: Updated for installprefix
?RCS:
?RCS: Revision 3.0.1.3  1995/09/25  09:17:15  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:46:13  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:32:04  ram
?RCS: patch32: now uses installation prefix
```

```
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:09:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:scriptdir scriptdirexp installscript: cat test Getfile Loc \
 Oldconfig +bin Prefixit Setprefixvar prefixexp Prefixup
?MAKE: -pick add $@ %<
?Y:TOP
?D:scriptdir=''
?S:scriptdir:
?S: This variable holds the name of the directory in which the user wants
?S: to put publicly scripts for the package in question.  It is either
?S: the same directory as for binaries, or a special one that can be
?S: mounted across different architectures, like /usr/share. Programs
?S: must be prepared to deal with ~name expansion.
?S:.
?D:scriptdirexp=''
?S:scriptdirexp:
?S: This variable is the same as scriptdir, but is filename expanded
?S: at configuration time, for programs not wanting to bother with it.
?S:.
?S:installscript:
?S: This variable is usually the same as scriptdirexp, unless you are on
?S: a system running AFS, in which case they may differ slightly. You
?S: should always use this variable
 within your makefiles for portability.
?S:.
?C:SCRIPTDIR:
?C: This symbol holds the name of the directory in which the user wants
?C: to put publicly executable scripts for the package in question.  It
?C: is often a directory that is mounted across diverse architectures.
?C: Programs must be prepared to deal with ~name expansion.
?C:.
?C:SCRIPTDIR_EXP:
?C: This is the same as SCRIPTDIR, but is filename expanded at
?C: configuration time, for use in programs not prepared to do
?C: ~name substitutions at run-time.
?C:.
?H:#define SCRIPTDIR "$scriptdir" /**/
?H:#define SCRIPTDIR_EXP "$scriptdirexp" /**/
?H:.
?T:installscriptdir
?LINT:change prefixvar
?LINT:set scriptdir
?LINT:set scriptdirexp
: determine where public executable scripts go
set scriptdir scriptdir
```

```
eval $prefixit
case "$scriptdir" in
")
 dflt="$bin"
 : guess some guesses
 $test -d /usr/share/scripts && dflt=/usr/share/scripts
 $test -d /usr/share/bin     && dflt=/usr/share/bin
 $test -d /usr/local/script  && dflt=/usr/local/script
 $test
 -d /usr/local/scripts && dflt=/usr/local/scripts
 $test -d $prefixexp/script  && dflt=$prefixexp/script
 set dflt
 eval $prefixup
 ;;
*)  dflt="$scriptdir"
 ;;
esac
$cat <<EOM

Some installations have a separate directory just for executable scripts so
that they can mount it across multiple architectures but keep the scripts in
one spot.  You might, for example, have a subdirectory of /usr/share for this.
Or you might just lump your scripts in with all your other executables.

EOM
fn=d~
rp='Where do you keep publicly executable scripts?'
. ./getfile
if $test "X$ansexp" != "X$scriptdirexp"; then
 installscript=''
fi
installscriptdir=''
prefixvar=scriptdir
. ./setprefixvar
: A little fix up for an irregularly named variable.
installscript="$installscriptdir"
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/scriptdir.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: i_sysstatvfs.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.

```
?RCS:
?MAKE:i_sysstatvfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysstatvfs:
?S: This variable conditionally defines the I_SYSSTATVFS symbol,
?S: and indicates whether a C program should include <sys/statvfs.h>.
?S:.
?C:I_SYS_STATVFS:
?C: This symbol, if defined, indicates that <sys/statvfs.h> exists and
?C: should be included.
?C:.
?H:#$i_sysstatvfs I_SYS_STATVFS  /**/
?H:.
?LINT:set i_sysstatvfs
: see if this is a sys/statvfs.h system
set sys/statvfs.h i_sysstatvfs
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_sysstatvfs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2017 Dagfinn Ilmari Mannsåker
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strnlen: Inlibc
?MAKE: -pick add $@ %<
?S:d_strnlen:
?S: This variable conditionally defines the HAS_STRNLEN symbol, which
?S: indicates to the C program that the strnlen () routine is available.
?S:.
?C:HAS_STRNLEN:
?C: This symbol, if defined, indicates that the strnlen () routine is
?C: available to check the length of a string up to a maximum.
?C:.
?H:#$d_strnlen HAS_STRNLEN  /**/
?H:.
?LINT:set d_strnlen
: see if strnlen exists
set strnlen d_strnlen
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strnlen.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strcoll.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_strcoll.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:12:01  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_strcoll: Inlibc
?MAKE: -pick add $@ %<
?S:d_strcoll:
?S: This variable conditionally defines HAS_STRCOLL if strcoll() is
?S: available to compare strings using collating information.
?S:.
?C:HAS_STRCOLL:
?C: This symbol, if defined, indicates that the strcoll routine
 is
?C: available to compare strings using collating information.
?C:.
?H:#$d_strcoll HAS_STRCOLL /**/
?H:.
?LINT:set d_strcoll
: see if strcoll exists
set strcoll d_strcoll
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strcoll.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: floatsize.U,v 3.0.1.1 1994/10/29 16:17:09 ram Exp $
?RCS:
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```

```
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: floatsize.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:17:09  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:floatsize: cat rm Myread Compile run
?MAKE: -pick add $@ %<
?S:floatsize:
?S: This variable contains the value of the FLOATSIZE symbol, which
?S: indicates to the C program how many bytes there are in a float.
?S:.
?C:FLOATSIZE:
?C: This
 symbol contains the size of a float, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define FLOATSIZE $floatsize  /**/
?H:.
?F:!try
: check for length of float
echo " "
case "$floatsize" in
")
 echo "Checking to see how big your floating point numbers are..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
   printf("%d\n", (int)sizeof(float));
   exit(0);
}
EOCP
 set try
 if eval $compile_ok; then
  floatsize=`$run ./try`
 else
  dflt='4'
  echo "(I can't seem to compile the test program.  Guessing...)"
  rp="What is the size of a floating point number (in bytes)?"
  . ./myread
  floatsize="$ans"
```

```
 fi
 ;;
esac
$rm -f try.c try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/floatsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2016 Tony Cook
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:dtraceobject dtracexnolibs: usedtrace dtrace cc ccflags optimize \
  Compile cat rm_try
?MAKE: -pick add $@ %<
?S:dtraceobject:
?S: Whether we need to build an object file with the dtrace tool.
?S:.
?S:dtracexnolibs:
?S: Whether dtrace accepts -xnolibs.  If available we call dtrace -h
?S: and dtrace -G with -xnolibs to allow dtrace to run in a jail on
?S: FreeBSD.
?S:.
?F: !perldtrace.h
?T:xnolibs
: Probe whether dtrace builds an object, as newer Illumos requires an input
: object file that uses at least one of the probes defined in the .d file
case "$usedtrace" in
$define)
   case "$dtracexnolibs" in
   $define|true|[yY]*)
       dtracexnolibs=$define
 $dtrace -h -xnolibs -s ../perldtrace.d -o perldtrace.h
 ;;
   ' '|'')
        if $dtrace -h -xnolibs -s ../perldtrace.d -o perldtrace.h 2>&1 ; then
      dtracexnolibs=$define
      echo "Your dtrace accepts -xnolibs"
 elif $dtrace -h -s ../perldtrace.d -o perldtrace.h 2>&1 ; then
      dtracexnolibs=$undef
      echo "Your dtrace doesn't accept -xnolibs"
 else
            echo "Your dtrace doesn't work at all, try building without dtrace support" >&4
      exit 1
 fi
```

```
 ;;
   *)
       dtracexnolibs=$undef
 $dtrace -h -s ../perldtrace.d -o perldtrace.h
 ;;
   esac
   case $dtracexnolibs in
   $define) xnolibs=-xnolibs ;;
   *) xnolibs= ;;
   esac

   case "$dtraceobject" in
   $define|true|[yY]*)
       dtraceobject=$define
       ;;
   ' '|'')
       $cat >try.c <<EOM
#include "perldtrace.h"
int main(void) {
   PERL_LOADED_FILE("dummy");
   return 0;
}
EOM
       dtraceobject=$undef
       if $cc -c -o try.o $optimize $ccflags try.c \
                && $dtrace -G $xnolibs -s ../perldtrace.d try.o >/dev/null 2>&1; then

         dtraceobject=$define
           echo "Your dtrace builds an object file"
       fi
       ;;
   *) dtraceobject=$undef ;;
   esac
   $rm_try perldtrace.o perldtrace.h
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/dtraceobject.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Config_sh.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Config_sh.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  14:57:53  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.2  1995/01/11  14:53:31  ram
?RCS: patch45: moved path stripping from d_portable.U to end of Configure
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:50:37  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X:
 This unit ends up producing the config.sh script, which contains all the
?X: definitions figured out by Configure.  The add.Config_sh command knows
?X: which variables need to be remembered.  It also adds the EOT (ends the
?X: here document redirection with variable substitution).
?X:
?MAKE:Config_sh: cf_time cf_by test spitshell startsh myuname Myread \
 End Obsol_sh Loc +d_portable package src cat
?MAKE: -pick add.Config_sh $@ %<
?MAKE: -pick add $@ ./Obsol_sh
?MAKE: -pick close.Config_sh $@ %<
?F:!config.over !config.arch
?T:file temp
?LINT:unclosed EOT
: back to where it started
if test -d ../UU; then
 cd ..
fi

: configuration may be unconditionally patched via a 'config.arch' file
if $test -f config.arch; then
 echo "I see a config.arch file, loading it." >&4
 . ./config.arch
fi

: configuration may be patched via a 'config.over' file
if $test -f config.over; then
 echo " "
 dflt=y
 rp='I see a config.over file.  Do you wish to load it?'
 . UU/myread
```

```
 case "$ans" in
 n*) echo
 "OK, I'll ignore it.";;
 *) . ./config.over
  echo "Configuration override changes have been loaded."
  ;;
 esac
fi

@if d_portable
: in case they want portability, strip down executable paths
?X:
?X: Strip down paths in located executables. For each file, e.g. vi, there
?X: is a $vi variable whose value is for instance '/usr/bin/vi'. By resetting
?X: $vi to 'vi', we rely on the PATH variable to locate the executable...
?X:
case "$d_portable" in
"$define")
 echo " "
 echo "Stripping down executable paths..." >&4
?X:
?X: Previously, we used to do    eval $file="\$file"  but in order
?X: to handle things like  sh Configure -Dmake=gmake, we can't do
?X: that.  What we *really* want is to strip away the absolute path
?X: and rely on the end user's $PATH to correctly find the executable.
?X: This method assumes there is a "basename" command available.  If
?X: not, replace it with the following expr-based command:
?X:   expr  $temp : '.*/\(.*\)' \| $temp
?X: Since this preserves the actual
 command name, we can now drop the
?X: OS/2 specific code.
?X:  --Andy Dougherty  August 1999
?X:
?X: On OS/2, a special $ar command not even named 'ar' is required,
?X: so we don't strip that name.
?X: Also, on DOS-ish systems, there might not be a ln command, but we
?X: might have ln='cp'.
?X: However, we can't set d_portable=undef on such systems since
?X: Unix-ish tools don't have standard locations there.  Thus we
?X: MUST rely on the user's $PATH.
?X: --Andy Dougherty  4/1998
?X:
 for file in $loclist $trylist; do
  eval temp=\$$file
  eval $file=`basename $temp`
 done
 ;;
esac
```

```
@end
: create config.sh file
echo " "
echo "Creating config.sh..." >&4
$spitshell <<EOT >config.sh
$startsh
#
# This file was produced by running the Configure script. It holds all the
# definitions figured out by Configure. Should you modify one of these values,
# do not forget to propagate your changes by running "Configure -der". You may
# instead choose to run each of the .SH files by yourself, or "Configure
 -S".
#

# Package name      : $package
# Source directory  : $src
# Configuration time: $cf_time
# Configured by     : $cf_by
# Target system     : $myuname

EOT
?X: Command line options are saved by the Options.U unit in the
?X: temporary file UU/cmdline.opt
: Add in command line options if available
$test -f UU/cmdline.opt && $cat UU/cmdline.opt >> config.sh

$spitshell <<EOT >>config.sh

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
5.36.0/U/modified/Config_sh.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getpgrp.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:34:28  ram
?RCS: patch61: new USE_BSD_GETPGRP to detect the getpgrp() flavour
?RCS:
```

```
?RCS: Revision 3.0  1993/08/18  12:06:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getpgrp d_bsdgetpgrp: Guess Inlibc Setvar cat rm \
 +cc +ccflags +ldflags +libs i_unistd
?MAKE: -pick add $@ %<
?S:d_getpgrp:
?S: This variable conditionally defines HAS_GETPGRP if getpgrp() is
?S: available to get the current process group.
?S:.
?S:d_bsdgetpgrp:
?S: This
 variable conditionally defines USE_BSD_GETPGRP if
?S: getpgrp needs one arguments whereas USG one needs none.
?S:.
?C:HAS_GETPGRP (GETPGRP):
?C: This symbol, if defined, indicates that the getpgrp routine is
?C: available to get the current process group.
?C:.
?C:USE_BSD_GETPGRP:
?C: This symbol, if defined, indicates that getpgrp needs one
?C: arguments whereas USG one needs none.
?C:.
?H:#$d_getpgrp HAS_GETPGRP  /**/
?H:#$d_bsdgetpgrp USE_BSD_GETPGRP /**/
?H:.
?F:!set !set.c
?T:xxx
?LINT:set d_getpgrp d_bsdgetpgrp
: see if getpgrp exists
set getpgrp d_getpgrp
eval $inlibc

@if USE_BSD_GETPGRP || d_bsdgetpgrp
case "$d_getpgrp" in
"$define")
 echo " "
 echo "Checking to see which flavor of getpgrp is in use..."
 $cat >set.c <<EOP
#$i_unistd I_UNISTD
#include <sys/types.h>
#ifdef I_UNISTD
#  include <unistd.h>
#endif
int main()
{
 if (getuid() == 0) {
  printf("(I see you are running Configure as super-user...)\n");
```

```
  setuid(1);
 }
#ifdef TRY_BSD_PGRP
 if (getpgrp(1) ==
 0)
  exit(0);
#else
 if (getpgrp() > 0)
  exit(0);
#endif
 exit(1);
}
EOP
 if $cc -DTRY_BSD_PGRP $ccflags $ldflags -o set set.c $libs >/dev/null 2>&1
  && ./set
 then
  echo "You have to use getpgrp(pid) instead of getpgrp()." >&4
  val="$define"
 elif $cc $ccflags $ldflags -o set set.c $libs >/dev/null 2>&1 && ./set; then
  echo "You have to use getpgrp() instead of getpgrp(pid)." >&4
  val="$undef"
 else
  echo "I can't seem to compile and run the test program."
  if ./usg; then
   xxx="a USG one, i.e. you use getpgrp()."
  else
   # SVR4 systems can appear rather BSD-ish.
   case "$i_unistd" in
   $undef)
    xxx="a BSD one, i.e. you use getpgrp(pid)."
    val="$define"
    ;;
   $define)
    xxx="probably a USG one, i.e. you use getpgrp()."
    val="$undef"
    ;;
   esac
  fi
  echo "Assuming your getpgrp is $xxx" >&4
 fi
 ;;
*) val="$undef";;
esac
set d_bsdgetpgrp
eval $setvar
$rm -f set set.c
@end
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getpgrp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: intsize.U,v 3.0.1.2 1997/02/28 15:55:26 ram Exp $
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: intsize.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:55:26  ram
?RCS: patch61: avoid prompting the user if the test runs ok
?RCS: patch61: moved code from longsize.U into there
?RCS: patch61: new tests for shortsize as well
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:21:06  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:intsize longsize
 shortsize: Compile Myread cat run i_stdlib rm_try
?MAKE: -pick add $@ %<
?S:intsize:
?S: This variable contains the value of the INTSIZE symbol, which
?S: indicates to the C program how many bytes there are in an int.
?S:.
?S:longsize:
?S: This variable contains the value of the LONGSIZE symbol, which
?S: indicates to the C program how many bytes there are in a long.
?S:.
?S:shortsize:
?S: This variable contains the value of the SHORTSIZE symbol which
?S: indicates to the C program how many bytes there are in a short.
?S:.
?C:INTSIZE:
?C: This symbol contains the value of sizeof(int) so that the C
?C: preprocessor can make decisions based on it.
?C:.
?C:LONGSIZE:
?C: This symbol contains the value of sizeof(long) so that the C
```

```
?C: preprocessor can make decisions based on it.
?C:.
?C:SHORTSIZE:
?C: This symbol contains the value of sizeof(short) so that the C
?C: preprocessor can make decisions based on it.
?C:.
?H:#define INTSIZE $intsize  /**/
?H:#define LONGSIZE $longsize  /**/
?H:#define
 SHORTSIZE $shortsize  /**/
?H:.
?F:!try
: check for lengths of integral types
echo " "
case "$intsize" in
")
 echo "Checking to see how big your integers are..." >&4
 $cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
{
@if INTSIZE || intsize
 printf("intsize=%d;\n", (int)sizeof(int));
@end
@if LONGSIZE || longsize
 printf("longsize=%d;\n", (int)sizeof(long));
@end
@if SHORTSIZE || shortsize
 printf("shortsize=%d;\n", (int)sizeof(short));
@end
 exit(0);
}
EOCP
 set try
 if eval $compile_ok && $run ./try > /dev/null; then
  eval `$run ./try`
@if INTSIZE || intsize
  echo "Your integers are $intsize bytes long."
@end
@if LONGSIZE || longsize
  echo "Your long integers are $longsize bytes long."
@end
@if SHORTSIZE || shortsize
  echo "Your short integers are $shortsize bytes long."
```

```
@end
 else
  $cat >&4 <<EOM
!
Help! I can't compile and run the intsize test program: please enlighten me!
(This is probably a misconfiguration
 in your system or libraries, and
you really ought to fix it.  Still, I'll try anyway.)
!
EOM
@if INTSIZE || intsize
  dflt=4
  rp="What is the size of an integer (in bytes)?"
  . ./myread
  intsize="$ans"
@end
@if LONGSIZE || longsize
  dflt=$intsize
  rp="What is the size of a long integer (in bytes)?"
  . ./myread
  longsize="$ans"
@end
@if SHORTSIZE || shortsize
  dflt=2
  rp="What is the size of a short integer (in bytes)?"
  . ./myread
  shortsize="$ans"
@end
 fi
 ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/a_dvisory/intsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_memccpy.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: d_memccpy.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_memccpy: Inlibc
?MAKE: -pick add $@ %<
?S:d_memccpy:
?S: This variable conditionally defines the HAS_MEMCCPY symbol, which
?S: indicates to the C program that the memccpy() routine is available
?S: to copy a character into a block of memory.
?S:.
?C:HAS_MEMCCPY (MEMCCPY):
?C: This symbol, if defined, indicates that the memccpy routine
 is available
?C: to copy a character into a block of memory.  Otherwise you should
?C: roll your own.
?C:.
?H:#$d_memccpy HAS_MEMCCPY  /**/
?H:.
?LINT:set d_memccpy
: see if memccpy exists
set memccpy d_memccpy
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_memccpy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sunscanf.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:sunscanf: cat rm Myread +cc +ccflags test Setvar
?MAKE: -pick add $@ %<
?S:sunscanf:
?S: This variable is set if this system runs with the Sun version
?S: of scanf.
```

```
?S:.
?C:SUNSCANF:
?C: This variable is set if this system runs with the Sun version
?C: of scanf.
?C:.
?H:#$sunscanf  SUNSCANF  /**/
?H:.
?LINT:set sunscanf
: check to see what kinda scanf your using.
echo " "
echo "Checking
 to see what flavor of scanf you have..." >&4
$cat >scanf.c <<'EOCP'
int main()
{
 float value;

 sscanf("4.5","%g",&value);
 printf("%d\n", value == 4.5);
}
EOCP
if $cc $ccflags -o scanf scanf.c >/dev/null 2>&1 ; then
 if $test `scanf` = 0; then
  echo "Hmm.. seems your not running the USG flavor.."
  val="$undef"
 else
  echo "Uh... your running the USG flavor of scanf."
  val="$define"
 fi
else
 echo "(I can't seem to compile the test program... Guessing)"
 val="$undef"
fi
set sunscanf
eval $setvar
$rm -f scanf*
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/sunscanf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sockopt.U,v 3.0.1.1 1995/07/25 14:16:14 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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```

```
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sockopt.U,v $
?RCS: Revision 3.0.1.1  1995/07/25  14:16:14  ram
?RCS: patch56: obsoleted KEEPALIVE in favor of CAN_KEEPALIVE for consistency
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_keepalive: cat rm contains +cc +ccflags +ldflags socketlib sockethdr \
 d_oldsock libs Oldconfig Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_keepalive:
?S: This symbol conditionally defines CAN_KEEPALIVE which
 indicates to the C
?S: program that setsockopt SO_KEEPALIVE will work properly.
?S:.
?C:CAN_KEEPALIVE (KEEPALIVE):
?C: This symbol if defined indicates to the C program that the SO_KEEPALIVE
?C: option of setsockopt() will work as advertised in the manual.
?C:.
?H:#$d_keepalive CAN_KEEPALIVE  /**/
?H:.
?F:!socket
?LINT:set d_keepalive
: see if setsockopt with SO_KEEPALIVE works as advertised
echo " "
case "$d_oldsock" in
"$undef")
 if $contains SO_KEEPALIVE `./findhdr sys/socket.h` \
  /dev/null >/dev/null 2>&1
 then
  echo "OK, let's see if SO_KEEPALIVE works as advertised..." >&4
  $cat > socket.c <<EOP
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
#include <netdb.h>

int main()
{
 int s = socket(AF_INET, SOCK_STREAM, 0);
 if (s == -1)
  exit(1);
 if (-1 == setsockopt(s, SOL_SOCKET, SO_KEEPALIVE, 0, 0))
  exit(2);
```

```
 exit(0);
}
EOP
  if $cc $ccflags $sockethdr $ldflags -o socket socket.c $libs \
   $socketlib >/dev/null 2>&1; then
   ./socket >/dev/null 2>&1
   case
 $? in
   0) echo "Yes, it does!"
    val="$define";;
   1) $cat <<EOM
(Something went wrong -- Assuming SO_KEEPALIVE is broken)
EOM
    val="$undef";;
   2) echo "No, it doesn't.  Don't trust your manuals!!"
    val="$undef";;
   esac
  else
   cat <<EOM
(I can't compile the test program -- Assuming SO_KEEPALIVE is broken)
EOM
   val="$undef"
  fi
 else
  echo "Strange!! You have BSD 4.2 sockets but no SO_KEEPALIVE option."
  val="$undef"
 fi;;
*) cat <<EOM
As you have an old socket interface, you can't have heard of SO_KEEPALIVE.
EOM
 val="$undef";;
esac
set d_keepalive
eval $setvar
$rm -f socket socket.c
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/sockopt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_wifstat.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:47:43  ram
?RCS: patch61: added a ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  14:09:10  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.1  1995/03/21  08:47:46  ram
?RCS: patch52: created
?RCS:
?MAKE:d_wifstat: d_uwait +cc +ccflags +ldflags +libs Oldconfig cat rm
?MAKE: -pick add $@ %<
?S:d_wifstat:
?S: This symbol conditionally defines USE_WIFSTAT if the C program can
?S: safely
 use the WIFxxx macros with the kind of wait() parameter
?S: declared in the program (see UNION_WAIT), or if it can't. Should
?S: only matter on HP-UX, where the macros are incorrectly written and
?S: therefore cause programs using them with an 'union wait' variable
?S: to not compile properly.
?S:.
?C:USE_WIFSTAT:
?C: This symbol, if defined, indicates to the C program that the argument
?C: for the WIFxxx set of macros such as WIFSIGNALED or WIFEXITED can
?C: be of the same kind as the one used to hold the wait() status. Should
?C: only matter on HP-UX, where the macros are incorrectly written and
?C: therefore cause programs using them with an 'union wait' variable
?C: to not compile properly. See also UNION_WAIT.
?C:.
?H:#$d_wifstat USE_WIFSTAT  /**/
?H:.
?T:type
?F:!foo
: see if we can use WIFxxx macros
echo " "
case "$d_wifstat" in
"$define") echo "As before, you can safely use WIFEXITED and friends!" >&4;;
"$undef") echo "You still can't use WIFEXITED and friends!" >&4;;
*)
 echo
 "Let's see whether you can use the WIFEXITED(status) macro and its"
 case "$d_uwait" in
 "$define") type='union wait';;
 *) type='int';;
 esac
```

```
 echo "friends with status declared as '$type status'..."
 $cat >foo.c <<EOCP
#include <sys/types.h>
#include <sys/wait.h>

int main()
{
 $type status;
 int e = 0;

#ifdef WIFEXITED
 if (WIFEXITED(status))
  printf("\n");
 exit(0);
#else
 exit(2);
#endif
}
EOCP
 d_wifstat="$undef"
 if $cc $ccflags $ldflags -o foo foo.c $libs >/dev/null 2>&1; then
  if ./foo >/dev/null; then
   echo "Great! Looks like we can use the WIFxxx macros." >&4
   d_wifstat="$define"
  else
   echo "You don't seem to have WIFxxx macros, but that's ok." >&4
  fi
 else
  echo "Apparently you can't use WIFxxx macros properly." >&4
 fi
 $rm -f foo.* foo core
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_wifstat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in order
?X: to make quick check on whether the current C compiler is working.
?X:
?MAKE:Checkcc ccname ccversion: Myread Warn startsh cat contains test
?MAKE: -pick add $@ %<
?S:ccname:
?S: This can set either by hints files or by Configure.  If using
?S: gcc, this is gcc, and if not, usually equal to cc, unimpressive, no?
?S: Some platforms, however, make good use of this by storing the
?S: flavor
 of the C compiler being used here.  For example if using
?S: the Sun WorkShop suite, ccname will be 'workshop'.
?S:.
?S:ccversion:
?S: This can set either by hints files or by Configure.  If using
?S: a (non-gcc) vendor cc, this variable may contain a version for
?S: the compiler.
?S:.
?F:./checkcc ./trygcc !checktmp
?V:despair
?T:trygcc
?LINT:extern cc rm ccflags ldflags
?LINT:change cc ccflags
?LINT:usefile checktmp
?INIT:ccname=''
?INIT:ccversion=''
: generate the trygcc script for later perusal
cat <<EOS >trygcc
$startsh
EOS
cat <<'EOSC' >>trygcc
case "$cc" in
'') ;;
*)  $rm -f try try.*
   $cat >try.c <<EOM
int main(int argc, char *argv[]) {
 (void) argc;
 (void) argv;
 return 0;
}
EOM
   if $cc -o try $ccflags $ldflags try.c; then
      :
   else
```

```
        echo "Uh-oh, the C compiler '$cc' doesn't seem to be working." >&4
        despair=yes
        trygcc=yes
        case "$cc" in
        *gcc*) trygcc=no ;;
        esac
        case "`$cc -v -c try.c 2>&1`" in

       *gcc*) trygcc=no ;;
        esac
        if $test X"$trygcc" = Xyes; then
            if gcc -o try -c try.c; then
                echo " "
                echo "You seem to have a working gcc, though." >&4
                rp="Would you like to use it?"
                dflt=y
                if $test -f myread; then
                    . ./myread
                else
                    if $test -f UU/myread; then
                        . ./UU/myread
                    else
                        echo "Cannot find myread, sorry.  Aborting." >&2
                        exit 1
                    fi
                fi
                case "$ans" in
                [yY]*) cc=gcc; ccname=gcc; ccflags=''; despair=no;
?X: Look whether we have 'call-back units' generated by hints that would
?X: seemingly affect the compiling environment.
                        $cat *.cbu >checktmp 2>/dev/null
                        if $contains ccflags checktmp >/dev/null; then

        ./warn <<EOM
Any previous setting of the C compiler flags has been lost.
It may be necessary to pass -Dcc=gcc to Configure right away.
EOM
                        fi;;
                esac
            fi
        fi
    fi
    $rm -f try try.*
    ;;
esac
EOSC

: generate the checkcc script for later perusal
```

```
cat <<EOS >checkcc
$startsh
EOS
cat <<'EOSC' >>checkcc
case "$cc" in
") ;;
*)  $rm -f try try.*
   $cat >try.c <<EOM
int main(int argc, char *argv[]) {
 (void) argc;
 (void) argv;
 return 0;
}
EOM
   if $cc -o try $ccflags $ldflags try.c; then
      :
   else
      if $test X"$despair" = Xyes; then
         echo "Uh-oh, the C compiler '$cc' doesn't seem to be working." >&4
      fi
      $cat >&4 <<EOM
You need to find a working C compiler.
Either (purchase and) install the C compiler supplied by your OS vendor,
or for a free C compiler try http://gcc.gnu.org/
I cannot continue any further, aborting.
EOM
      exit 1
   fi

 $rm -f try try.*
   ;;
esac
EOSC
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Checkcc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_tmpnam_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_tmpnam_r tmpnam_r_proto: Inlibc Protochk Hasproto i_systypes \
```

```
 usethreads extern_C
?MAKE: -pick add $@ %<
?S:d_tmpnam_r:
?S: This variable conditionally defines the HAS_TMPNAM_R symbol,
?S: which indicates to the C program that the tmpnam_r()
?S: routine is available.
?S:.
?S:tmpnam_r_proto:
?S: This variable encodes the prototype of tmpnam_r.
?S: It is zero if d_tmpnam_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_tmpnam_r
?S: is defined.
?S:.
?C:HAS_TMPNAM_R:
?C: This symbol, if defined, indicates that the tmpnam_r routine
?C: is available to tmpnam re-entrantly.
?C:.
?C:TMPNAM_R_PROTO:
?C: This
 symbol encodes the prototype of tmpnam_r.
?C: It is zero if d_tmpnam_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_tmpnam_r
?C: is defined.
?C:.
?H:#$d_tmpnam_r HAS_TMPNAM_R /**/
?H:#define TMPNAM_R_PROTO $tmpnam_r_proto /**/
?H:.
?T:try hdrs d_tmpnam_r_proto
: see if tmpnam_r exists
set tmpnam_r d_tmpnam_r
eval $inlibc
case "$d_tmpnam_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h "
 case "$d_tmpnam_r_proto:$usethreads" in
 ":define") d_tmpnam_r_proto=define
  set d_tmpnam_r_proto tmpnam_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_tmpnam_r_proto" in
 define)
 case "$tmpnam_r_proto" in
 "|0) try='char* tmpnam_r(char*);'
 ./protochk "$extern_C $try" $hdrs && tmpnam_r_proto=B_B ;;
 esac
 case "$tmpnam_r_proto" in
 "|0) d_tmpnam_r=undef
```

```
  tmpnam_r_proto=0
  echo "Disabling tmpnam_r, cannot determine prototype." >&4 ;;
 * ) case "$tmpnam_r_proto" in
  REENTRANT_PROTO*) ;;
  *) tmpnam_r_proto="REENTRANT_PROTO_$tmpnam_r_proto"
 ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "tmpnam_r has no prototype, not using it." >&4 ;;
  esac
  d_tmpnam_r=undef
  tmpnam_r_proto=0
  ;;
 esac
 ;;
*) tmpnam_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_tmpnam_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strerror.U,v $
?RCS: Revision 3.0.1.3  1994/05/13  15:20:27  ram
?RCS: patch27: now uses new macro support for cleaner Strerror def
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  14:58:26  ram
?RCS: patch23: renamed strerror into Strerror to protect name space (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:08:56  ram
?RCS: patch16: protected code looking for sys_errnolist[] with @if
?RCS: patch16: added default value for d_sysernlst
?RCS:
```

```
?RCS: Revision 3.0  1993/08/18  12:07:35  ram
?RCS: Baseline
 for dist 3.0 netwide release.
?RCS:
?MAKE:d_strerror d_syserrlst d_sysernlst d_strerrm: contains Csym Findhdr
?MAKE: -pick add $@ %<
?S:d_strerror:
?S: This variable conditionally defines HAS_STRERROR if strerror() is
?S: available to translate error numbers to strings.
?S:.
?S:d_syserrlst:
?S: This variable conditionally defines HAS_SYS_ERRLIST if sys_errlist[] is
?S: available to translate error numbers to strings.
?S:.
?S:d_sysernlst:
?S: This variable conditionally defines HAS_SYS_ERRNOLIST if sys_errnolist[]
?S: is available to translate error numbers to the symbolic name.
?S:.
?S:d_strerrm:
?S: This variable holds what Strerrr is defined as to translate an error
?S: code condition into an error message string. It could be 'strerror'
?S: or a more complex macro emulating strrror with sys_errlist[], or the
?S: "unknown" string when both strerror and sys_errlist are missing.
?S:.
?C:HAS_STRERROR (STRERROR):
?C: This symbol, if defined, indicates that the strerror routine is
?C: available
 to translate error numbers to strings. See the writeup
?C: of Strerror() in this file before you try to define your own.
?C:.
?C:HAS_SYS_ERRLIST (SYSERRLIST):
?C: This symbol, if defined, indicates that the sys_errlist array is
?C: available to translate error numbers to strings. The extern int
?C: sys_nerr gives the size of that table.
?C:.
?C:HAS_SYS_ERRNOLIST (SYSERRNOLIST):
?C: This symbol, if defined, indicates that the sys_errnolist array is
?C: available to translate an errno code into its symbolic name (e.g.
?C: ENOENT). The extern int sys_nerrno gives the size of that table.
?C:.
?C:Strerror:
?C: This preprocessor symbol is defined as a macro if strerror() is
?C: not available to translate error numbers to strings but sys_errlist[]
?C: array is there.
?C:.
?H:#$d_strerror HAS_STRERROR  /**/
?H:#$d_syserrlst HAS_SYS_ERRLIST /**/
?H:#$d_sysernlst HAS_SYS_ERRNOLIST /**/
```

```
?H:#define Strerror(e) $d_strerrm
?H:.
?D:d_sysernlst="
?T:xxx val
: see if strerror and/or sys_errlist[]
 exist
echo " "
if set strerror val -f d_strerror; eval $csym; $val; then
 echo 'strerror() found.' >&4
 d_strerror="$define"
 d_strerrm='strerror(e)'
 if set sys_errlist val -a d_syserrlst; eval $csym; $val; then
  echo "(You also have sys_errlist[], so we could roll our own strerror.)"
  d_syserrlst="$define"
 else
 echo "(Since you don't have sys_errlist[], sterror() is welcome.)"
  d_syserrlst="$undef"
 fi
elif xxx=`./findhdr string.h`; test "$xxx" || xxx=`./findhdr strings.h`; \
 $contains '#[  ]*define.*strerror' "$xxx" >/dev/null 2>&1; then
 echo 'strerror() found in string header.' >&4
 d_strerror="$define"
 d_strerrm='strerror(e)'
 if set sys_errlist val -a d_syserrlst; eval $csym; $val; then
  echo "(Most probably, strerror() uses sys_errlist[] for descriptions.)"
  d_syserrlst="$define"
 else
  echo "(You don't appear to have any sys_errlist[], how can this be?)"
  d_syserrlst="$undef"
 fi
elif set sys_errlist val -a d_syserrlst; eval $csym; $val; then
echo "strerror()
 not found, but you have sys_errlist[] so we'll use that." >&4
 d_strerror="$undef"
 d_syserrlst="$define"
 d_strerrm='((e)<0||(e)>=sys_nerr?"unknown":sys_errlist[e])'
else
 echo 'strerror() and sys_errlist[] NOT found.' >&4
 d_strerror="$undef"
 d_syserrlst="$undef"
 d_strerrm='"unknown"'
fi
@if d_sysernlst || HAS_SYS_ERRNOLIST
if set sys_errnolist val -a d_sysernlst; eval $csym; $val; then
 echo "(Symbolic error codes can be fetched via the sys_errnolist[] array.)"
 d_sysernlst="$define"
else
 echo "(However, I can't extract the symbolic error code out of errno.)"
```

```
 d_sysernlst="$undef"
fi
@end
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strerror.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_whoami.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_whoami.U,v $
?RCS: Revision 3.0.1.1  1993/08/25  14:02:21  ram
?RCS: patch6: added default for i_whoami
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_whoami: Inhdr
?MAKE: -pick add $@ %<
?S:i_whoami (d_whoami):
?S: This variable conditionally defines the I_WHOAMI symbol, which
?S: indicates to the C program that it should include <whoami.h>.
?S:.
?C:I_WHOAMI (WHOAMI):
?C: This symbol,
 if defined, indicates that the program may include
?C: <whoami.h>.
?C:.
?H:#$i_whoami I_WHOAMI /**/
?H:.
?D:i_whoami="
?LINT:set i_whoami
: see if there is a whoami.h file
set whoami.h i_whoami
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_whoami.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: End.U,v $
?RCS: Revision 3.0  1993/08/18  12:04:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit serves as the goal which forces make to choose all the units that
?X: ask questions.  The $W on the ?MAKE: line is the list of all symbols wanted.
?X: To force any unit to be included, copy this unit to your private U directory
?X: and add the name of the unit desired to the ?MAKE: dependency line.
?X:
?MAKE:End: $W
?MAKE: -pick add $@ %<
?LINT:use $W
: end of configuration
 questions
echo " "
echo "End of configuration questions."
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/End.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_grp.U,v 3.0 1993/08/18 12:08:20 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: GRPASSWD detection added by Andy Dougherty  July 14, 1998.
?RCS:
?RCS: $Log: i_grp.U,v $
```

```
?RCS: Revision 3.0  1993/08/18  12:08:20  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_grp d_grpasswd: \
 contains rm cppstdin cppflags cppminus Inhdr Findhdr Setvar
?MAKE: -pick add $@ %<
?S:i_grp:
?S: This variable conditionally defines the I_GRP symbol, and indicates
?S: whether a C program should include <grp.h>.
?S:.
?S:d_grpasswd:
?S: This variable conditionally
 defines GRPASSWD, which indicates
?S: that struct group in <grp.h> contains gr_passwd.
?S:.
?C:I_GRP:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <grp.h>.
?C:.
?C:GRPASSWD:
?C: This symbol, if defined, indicates to the C program that struct group
?C: in <grp.h> contains gr_passwd.
?C:.
?H:#$i_grp I_GRP  /**/
?H:#$d_grpasswd GRPASSWD /**/
?H:.
?LINT:set i_grp d_grpasswd
?T: xxx
: see if this is an grp system
set grp.h i_grp
eval $inhdr

case "$i_grp" in
$define)
 xxx=`./findhdr grp.h`
 $cppstdin $cppflags $cppminus < $xxx >$$.h

 if $contains 'gr_passwd' $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_grpasswd
 eval $setvar

 $rm -f $$.h
 ;;
*)
```

```
 val="$undef";
 set d_grpasswd; eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_grp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_sbrkproto: Hasproto i_unistd
?MAKE: -pick add $@ %<
?S:d_sbrkproto:
?S: This variable conditionally defines the HAS_SBRK_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the sbrk() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_SBRK_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the sbrk() function.  Otherwise, it is up
?C: to the program to supply one.  Good guesses are
?C:  extern void* sbrk(int);
?C:  extern
 void* sbrk(size_t);
?C:.
?H:#$d_sbrkproto HAS_SBRK_PROTO /**/
?H:.
?LINT:set d_sbrkproto
: see if prototype for sbrk is available
echo " "
set d_sbrkproto sbrk $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_sbrkproto.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_eofpipe.U,v 3.0.1.1 1994/10/29 16:12:40 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_eofpipe.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:12:40  ram
?RCS: patch36: call ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_eofpipe: Compile cat rm Oldconfig Guess echo n c
?MAKE: -pick add $@ %<
?S:d_eofpipe:
?S: This variable conditionally defines the EOFPIPE symbol, which
?S: indicates to the C program that select will correctly detect
 the EOF
?S: condition when pipe is closed from the other end.
?S:.
?C:EOFPIPE:
?C: This symbol, if defined, indicates that EOF condition will be detected
?C: by the reader of the pipe when it is closed by the writing process.
?C: That is, a select() call on that file descriptor will not block when
?C: only an EOF remains (typical behavior for BSD systems).
?C:.
?H:#$d_eofpipe EOFPIPE  /**/
?H:.
?F:!mpipe
: see if pipe correctly gives the EOF condition
echo " "
case "$d_eofpipe" in
")
 echo "Let's see if your pipes return EOF to select() upon closing..." >&4
 $cat >pipe.c <<'EOP'
int main()
{
 int pd[2];
 int mask;

 pipe(pd);
```

```
 if (0 == fork()) {
  close(pd[0]);
  close(pd[1]);
  exit(0);
 }

 close(pd[1]);
 mask = 1 << pd[0];
 alarm(2);
 select(32, &mask, (int *) 0, (int *) 0, (char *) 0);
 if (0 == read(pd[0], &mask, 1))
  exit(0);

 exit(1);
}
EOP
 set pipe
 if eval $compile_ok; then
?X: Use a script to avoid the possible 'alarm call' message
  echo "./pipe || exit 1" > mpipe
  chmod
 +x mpipe
  ./mpipe >/dev/null 2>&1
  case $? in
  0) d_eofpipe="$define";;
  *) d_eofpipe="$undef";;
  esac
 else
  echo "(The test program did not compile correctly -- Guessing.)"
  if ./bsd; then
   d_eofpipe="$define"
  else
   d_eofpipe="$undef"
  fi
 fi
 case "$d_eofpipe" in
 "$define") echo "Yes, they do.";;
 *) echo "No, they don't! (sigh)";;
 esac
 ;;
*)
 $echo $n "Your pipes $c"
 case "$d_eofpipe" in
 "$define") echo "allow select() to see EOF upon closing.";;
 *) echo "won't let select() see EOF on closing.";;
 esac
 ;;
esac
```

```
$rm -f *pipe* core
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_eofpipe.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: rootid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: rootid.U,v $
?RCS: Revision 3.0.1.1  1995/01/30  14:45:36  ram
?RCS: patch49: now only prints a single empty line when outputting something
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:rootid: sed
?MAKE: -pick add $@ %<
?S:rootid:
?S: This variable contains the eventual value of the ROOTID symbol,
?S: which is the uid of root.
?S:.
?C:ROOTID:
?C: This symbol contains the uid of root, normally
 0.
?C:.
?H:#define ROOTID $rootid  /**/
?H:.
: determine root id
rootid=`$sed -e "/^root:/{s/^[^:]*:[^:]*:\([^:]*\).*'''$'''/\1/" -e "q" -e "}" -e "d" </etc/passwd`
case "$rootid" in
") rootid=0 ;;
*) echo " "; echo "Root uid = $rootid" >&4 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/rootid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_acosh: Inlibc
?MAKE: -pick add $@ %<
?S:d_acosh:
?S: This variable conditionally defines the HAS_ACOSH symbol, which
?S: indicates to the C program that the acosh() routine is available.
?S:.
?C:HAS_ACOSH:
?C: This symbol, if defined, indicates that the acosh routine is
?C: available to do the inverse hyperbolic cosine function.
?C:.
?H:#$d_acosh HAS_ACOSH  /**/
?H:.
?LINT:set d_acosh
: see if acosh exists
set acosh d_acosh
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_acosh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: privlib.U,v 3.1 1999/07/08 18:32:29 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: privlib.U,v $
?RCS: Revision 3.1  1999/07/08 18:32:29  doughera
?RCS: Updated for perl5.005_5x
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:17:09  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:44:23  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:31:52  ram
?RCS:
```

```
 patch32: now uses installation prefix
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:12:34  ram
?RCS: patch10: added support for /local/lib (WED)
?RCS: patch10: prompt phrasing made more explicit (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:privlib privlibexp installprivlib: package cat Getfile Oldconfig \
 Setprefixvar Prefixit version installstyle binexp
?MAKE: -pick add $@ %<
?Y:TOP
?D:privlib=''
?S:privlib:
?S: This variable contains the eventual value of the PRIVLIB symbol,
?S: which is the name of the private library for this package.  It may
?S: have a ~ on the front. It is up to the makefile to eventually create
?S: this directory while performing installation (with ~ substitution).
?S:.
?D:privlibexp=''
?S:privlibexp:
?S: This variable is the ~name expanded version of privlib, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installprivlib=''
?S:installprivlib:
?S: This variable
 is really the same as privlibexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?C:PRIVLIB:
?C: This symbol contains the name of the private library for this package.
?C: The library is private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.  The program
?C: should be prepared to do ~ expansion.
?C:.
?C:PRIVLIB_EXP:
?C: This symbol contains the ~name expanded version of PRIVLIB, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#define PRIVLIB "$privlib"  /**/
?H:#define PRIVLIB_EXP "$privlibexp"  /**/
?H:.
?LINT:change prefixvar
?LINT:set installprivlib
?LINT:set privlib
```

```
?LINT:set privlibexp
: determine where private library files go
: Usual default is /usr/local/lib/perl5/$version.
: Also allow things like /opt/perl/lib/$version, since
: /opt/perl/lib/perl5... would be redundant.
: The default "style"
 setting is made in installstyle.U
case "$installstyle" in
*lib/perl5*) set dflt privlib lib/$package/$version ;;
*)  set dflt privlib lib/$version ;;
esac
eval $prefixit
$cat <<EOM

There are some auxiliary files for $package that need to be put into a
private library directory that is accessible by everyone.

EOM
?X: Force dependency on bin.U
fn=$binexp
fn=d~+
rp='Pathname where the private library files will reside?'
. ./getfile
prefixvar=privlib
. ./setprefixvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/privlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_remquo: Inlibc
?MAKE: -pick add $@ %<
?S:d_remquo:
?S: This variable conditionally defines the HAS_REMQUO symbol, which
?S: indicates to the C program that the remquo() routine is available.
?S:.
?C:HAS_REMQUO:
?C: This symbol, if defined, indicates that the remquo routine is
?C: available to return the remainder and part of quotient.
?C:.
?H:#$d_remquo HAS_REMQUO  /**/
?H:.
?LINT:set d_remquo
: see if remquo exists
```

```
set remquo d_remquo
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_remquo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:uselongdouble: Myread Oldconfig Setvar cat test usemorebits
?MAKE: -pick add $@ %<
?Y:TOP
?S:uselongdouble:
?S: This variable conditionally defines the USE_LONG_DOUBLE symbol,
?S: and indicates that long doubles should be used when available.
?S:.
?C:USE_LONG_DOUBLE:
?C: This symbol, if defined, indicates that long doubles should
?C: be used when available.
?C:.
?H:?%<:#ifndef USE_LONG_DOUBLE
?H:?%<:#$uselongdouble USE_LONG_DOUBLE  /**/
?H:?%<:#endif
?H:.
?LINT:extern ccflags
?LINT:use usemorebits
?F:!uselongdouble.cbu
: Check for uselongdouble support
case "$ccflags" in
*-DUSE_LONG_DOUBLE*|*-DUSE_MORE_BITS*) uselongdouble="$define" ;;
esac

case "$uselongdouble" in
$define|true|[yY]*) dflt='y';;
*)
 dflt='n';;
esac
cat <<EOM

Perl can be built to take advantage of long doubles which
(if available) may give more accuracy and range for floating point numbers.
```

```
If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp='Try to use long doubles if available?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*)      val="$undef" ;;
esac
set uselongdouble
eval $setvar

case "$uselongdouble" in
true|[yY]*) uselongdouble="$define" ;;
esac

: Look for a hint-file generated 'call-back-unit'.  If the
: user has specified that long doubles should be used,
: we may need to set or change some other defaults.
if $test -f uselongdouble.cbu; then
   echo "Your platform has some specific hints regarding long doubles, using them..."
   . ./uselongdouble.cbu
else
   case "$uselongdouble" in
 $define)
  $cat <<EOM
(Your platform does not have any specific hints for long doubles.)
EOM
 ;;
   esac
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/uselongdbl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: lib.U,v 3.0.1.3 1995/09/25 09:16:47 ram Exp $
?RCS:
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?RCS:
?RCS: $Log: lib.U,v $
?RCS: Revision 3.0.1.3  1995/09/25  09:16:47  ram
```

```
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:38:08  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:27:40  ram
?RCS: patch32: now uses installation prefix to set the default
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?LINT:
 empty
?X:?MAKE:lib libexp: Getfile Loc Oldconfig Prefixit Prefixup prefixexp
?X:?MAKE: -pick add $@ %<
?X:?Y:TOP
?X:?S:lib:
?X:?S: This variable holds the name of the directory in which the user wants
?X:?S: to put public library files for the package in question.  It is most
?X:?S: often a local directory such as /usr/local/lib. Programs using this
?X:?S: variable must be prepared to deal with filename expansion.
?X:?S:.
?X:?S:libexp:
?X:?S: This variable is the same as the lib variable, but is filename expanded
?X:?S: at configuration time, for convenient use in your makefiles.
?X:?S:.
?X:: determine where public libraries go
?X:set lib lib
?X:eval $prefixit
?X:case "$lib" in
?X:")
?X: dflt=`./loc . "." $prefixexp/lib /usr/local/lib /usr/lib /lib`
?X: set dflt
?X: eval $prefixup
?X: ;;
?X:*)  dflt="$lib";;
?X:esac
?X:echo " "
?X:fn=d~
?X:rp='Where do you want to put the public libraries?'
?X:. ./getfile
?X:lib="$ans"
?X:libexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/nullified/lib.U

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```
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?RCS:     later version (see the file "Copying" that comes with the
?RCS:     Perl distribution).
?RCS: Which one to use is your choice.
?RCS: See the U/README file.
?MAKE:d_builtin_add_overflow d_builtin_sub_overflow d_builtin_mul_overflow : Compile Setvar cat run rm_try
?MAKE: -pick add $@ %<
?S:d_builtin_add_overflow:
?S: This variable conditionally defines HAS_BUILTIN_ADD_OVERFLOW, which
?S: indicates that the compiler supports __builtin_add_overflow(x,y,&z)
?S: for safely adding x and y into z while checking for overflow.
?S:.
?S:d_builtin_sub_overflow:
?S: This
 variable conditionally defines HAS_BUILTIN_SUB_OVERFLOW, which
?S: indicates that the compiler supports __builtin_sub_overflow(x,y,&z)
?S: for safely subtracting y from x into z while checking for overflow.
?S:.
?S:d_builtin_mul_overflow:
?S: This variable conditionally defines HAS_BUILTIN_MUL_OVERFLOW, which
?S: indicates that the compiler supports __builtin_mul_overflow(x,y,&z)
?S: for safely multiplying x and y into z while checking for overflow.
?S:.
?C:HAS_BUILTIN_ADD_OVERFLOW:
?C: This symbol, if defined, indicates that the compiler supports
?C: __builtin_add_overflow for adding integers with overflow checks.
?C:.
?C:HAS_BUILTIN_SUB_OVERFLOW:
?C: This symbol, if defined, indicates that the compiler supports
?C: __builtin_sub_overflow for subtracting integers with overflow checks.
?C:.
?C:HAS_BUILTIN_MUL_OVERFLOW:
?C: This symbol, if defined, indicates that the compiler supports
?C: __builtin_mul_overflow for multiplying integers with overflow checks.
?C:.
?H:#$d_builtin_add_overflow
 HAS_BUILTIN_ADD_OVERFLOW /**/
?H:#$d_builtin_sub_overflow HAS_BUILTIN_SUB_OVERFLOW /**/
?H:#$d_builtin_mul_overflow HAS_BUILTIN_MUL_OVERFLOW /**/
?H:.
```

```
?F:!try
?LINT:set d_builtin_add_overflow d_builtin_sub_overflow d_builtin_mul_overflow
: Look for GCC-style __builtin_add_overflow
case "$d_builtin_add_overflow" in
")
   echo " "
   echo "Checking whether your compiler can handle __builtin_add_overflow ..." >&4
   $cat >try.c <<'EOCP'
int main(void) {
   const unsigned int uint_max = ~0u;
   int target_int = 0;
   if (__builtin_add_overflow(1, 2, &target_int) || target_int != 3) {
       return 1;
   }
   if (!__builtin_add_overflow((int)(uint_max >> 1), 1, &target_int)) {
       return 1;
   }
   if (!__builtin_add_overflow(uint_max, -1, &target_int)) {
       return 1;
   }
   return 0;
}
EOCP
   set try
   if eval $compile && $run ./try; then
       echo "Your C compiler supports __builtin_add_overflow."
       val="$define"
   else
       echo
 "Your C compiler doesn't seem to understand __builtin_add_overflow."
       val="$undef"
   fi
   ;;
*) val="$d_builtin_add_overflow" ;;
esac

set d_builtin_add_overflow
eval $setvar
$rm_try

: Look for GCC-style __builtin_sub_overflow
case "$d_builtin_sub_overflow" in
")
   echo " "
   echo "Checking whether your compiler can handle __builtin_sub_overflow ..." >&4
   $cat >try.c <<'EOCP'
int main(void) {
   const unsigned int uint_max = ~0u;
```

```
  int target_int = 0;
  if (__builtin_sub_overflow(1, -2, &target_int) || target_int != 3) {
      return 1;
  }
  if (!__builtin_sub_overflow(-(int)(uint_max >> 1), 2, &target_int)) {
      return 1;
  }
  if (!__builtin_sub_overflow(uint_max, 1, &target_int)) {
      return 1;
  }
  return 0;
}
EOCP
  set try
  if eval $compile && $run ./try; then
      echo "Your C compiler supports __builtin_sub_overflow."
      val="$define"
  else
      echo "Your C compiler doesn't seem to understand __builtin_sub_overflow."
       val="$undef"
  fi
  ;;
*) val="$d_builtin_sub_overflow" ;;
esac

set d_builtin_sub_overflow
eval $setvar
$rm_try

: Look for GCC-style __builtin_mul_overflow
case "$d_builtin_mul_overflow" in
")
  echo " "
  echo "Checking whether your compiler can handle __builtin_mul_overflow ..." >&4
  $cat >try.c <<'EOCP'
int main(void) {
  const unsigned int uint_max = ~0u;
  int target_int = 0;
  if (__builtin_mul_overflow(2, 3, &target_int) || target_int != 6) {
      return 1;
  }
  if (!__builtin_mul_overflow((int)(uint_max >> 1), 2, &target_int)) {
      return 1;
  }
  if (!__builtin_mul_overflow(uint_max, 1, &target_int)) {
      return 1;
  }
  return 0;
```

```
}
EOCP
  set try
  if eval $compile && $run ./try; then
      echo "Your C compiler supports __builtin_mul_overflow."
      val="$define"
  else
      echo "Your C compiler doesn't seem to understand __builtin_mul_overflow."
      val="$undef"
  fi
  ;;
*) val="$d_builtin_mul_overflow"
 ;;
esac

set d_builtin_mul_overflow
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_builtin_overflow.U
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```
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?RCS:
?RCS: $Log: d_flexfnam.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_flexfnam: cat rm test Setvar
?MAKE: -pick add $@ %<
?S:d_flexfnam:
?S: This variable conditionally defines the FLEXFILENAMES symbol, which
?S: indicates that the system supports filenames longer than 14 characters.
?S:.
?C:FLEXFILENAMES:
?C: This symbol, if defined, indicates that the system supports filenames
?C: longer than 14 characters.
?C:.
```

```
?H:#$d_flexfnam FLEXFILENAMES  /**/
?H:.
?T:first
 second
?LINT:set d_flexfnam
: see if we can have long filenames
echo " "
?X:
?X: We have to test in both /tmp and . because of NFS (remote server may allow
?X: long filenames while the local filesystem cannot support them). If at least
?X: one of those file systems cannot support long filenames, then we assume the
?X: whole system can't.
?X:
rmlist="$rmlist /tmp/cf$$"
$test -d /tmp/cf$$ || mkdir /tmp/cf$$
first=123456789abcdef
second=/tmp/cf$$/$first
$rm -f $first $second
if (echo hi >$first) 2>/dev/null; then
 if $test -f 123456789abcde; then
  echo 'You cannot have filenames longer than 14 characters.  Sigh.' >&4
  val="$undef"
 else
  if (echo hi >$second) 2>/dev/null; then
   if $test -f /tmp/cf$$/123456789abcde; then
    $cat <<'EOM'
That's peculiar... You can have filenames longer than 14 characters, but only
on some of the filesystems.  Maybe you are using NFS.  Anyway, to avoid problems
I shall consider your system cannot support long filenames at all.
EOM
    val="$undef"
   else
    echo
 'You can have filenames longer than 14 characters.' >&4
    val="$define"
   fi
  else
   $cat <<'EOM'
How confusing! Some of your filesystems are sane enough to allow filenames
longer than 14 characters but some others like /tmp can't even think about them.
So, for now on, I shall assume your kernel does not allow them at all.
EOM
   val="$undef"
  fi
 fi
else
 $cat <<'EOM'
You can't have filenames longer than 14 chars.  You can't even think about them!
```

```
EOM
 val="$undef"
fi
set d_flexfnam
eval $setvar
$rm -rf /tmp/cf$$ 123456789abcde*
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_flexfnam.U
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```
?RCS: $Id: d_fcntl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_fcntl.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_fcntl: Inlibc
?MAKE: -pick add $@ %<
?S:d_fcntl:
?S: This variable conditionally defines the HAS_FCNTL symbol, and indicates
?S: whether the fcntl() function exists
?S:.
?C:HAS_FCNTL:
?C: This symbol, if defined, indicates to the C program that
?C: the fcntl() function exists.
?C:.
?H:#$d_fcntl HAS_FCNTL  /**/
?H:.
?LINT:set d_fcntl
:
 see if this is an fcntl system
set fcntl d_fcntl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_fcntl.U

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```
?RCS: $Id: usrinc.U,v 1.1 2000/06/27 00:20:28 jhi Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: usrinc.U,v $
?RCS: Revision 1.1  2000/06/27 00:20:28  jhi
?RCS: Initial revision
?RCS:
?RCS: Revision 3.0.1.3  1997/02/28  16:27:12  ram
?RCS: patch61: don't ask for the include path unless they are on a MIPS
?RCS:
?RCS: Revision 3.0.1.2  1995/05/12  12:24:36  ram
?RCS: patch54: ensure that ./mips always exists (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:18:31  ram
?RCS: patch23: ensure usrinc value is preserved across sessions (WED)
?RCS:
?RCS: Revision
 3.0  1993/08/18  12:09:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:usrinc incpath mips_type: test cat echo n c Getfile Guess \
 Oldconfig eunicefix contains rm sysroot cc
?MAKE: -pick add $@ %<
?S:usrinc:
?S: This variable holds the path of the include files, which is
?S: usually /usr/include. It is mainly used by other Configure units.
?S:.
?S:incpath:
?S: This variable must precede the normal include path to get the
?S: right one, as in "$incpath/usr/include" or "$incpath/usr/lib".
?S: Value can be "" or "/bsd43" on mips.
?S:.
?S:mips_type:
?S: This variable holds the environment type for the mips system.
?S: Possible values are "BSD 4.3" and "System V".
?S:.
?D:usrinc='/usr/include'
?LINT:extern cppflags
?LINT:create mips
```

```
?T:xxx_prompt
?F:./mips
: What should the include directory be ?
: Use sysroot if set, so findhdr looks in the right place.
echo " "
$echo $n "Hmm...  $c"
dflt="$sysroot/usr/include"
incpath="
?X: mips_type is used later, to add -DSYSTYPE_BSD43
 to cppflags if needed.
mips_type="
?X:
?X: Cannot put the following in Guess, or we get a circular dependency.
?X:
if $test -f /bin/mips && /bin/mips; then
 echo "Looks like a MIPS system..."
 $cat >usr.c <<'EOCP'
#ifdef SYSTYPE_BSD43
/bsd43
#endif
EOCP
 if $cc $cppflags -E usr.c > usr.out && $contains / usr.out >/dev/null 2>&1; then
  dflt='/bsd43/usr/include'
  incpath='/bsd43'
  mips_type='BSD 4.3'
 else
  mips_type='System V'
 fi
 $rm -f usr.c usr.out
 echo "and you're compiling with the $mips_type compiler and libraries."
 xxx_prompt=y
 echo "exit 0" >mips
else
 echo "Doesn't look like a MIPS system."
 xxx_prompt=n
 echo "exit 1" >mips
fi
chmod +x mips
$eunicefix mips
case "$usrinc" in
") ;;
*) dflt="$usrinc";;
esac
case "$xxx_prompt" in
y) fn=d/
 echo " "
 rp='Where are the include files you want to use?'
 . ./getfile
```

```
 usrinc="$ans"
 ;;
*) usrinc="$dflt"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/usrinc.U
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```
?RCS: $Id: d_setprior.U 1 2006-08-24 12:32:52Z rmanfredi $
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?RCS:
?RCS: $Log: d_setprior.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:11  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setprior: Inlibc
?MAKE: -pick add $@ %<
?S:d_setprior:
?S: This variable conditionally defines HAS_SETPRIORITY if setpriority()
?S: is available to set a process's priority.
?S:.
?C:HAS_SETPRIORITY (SETPRIORITY):
?C: This symbol, if defined, indicates that the setpriority routine is
?C: available to set a process's priority.
?C:.
?H:#$d_setprior
 HAS_SETPRIORITY  /**/
?H:.
?LINT:set d_setprior
: see if setpriority exists
set setpriority d_setprior
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setprior.U
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```
?RCS: $Id: models.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
?RCS: $Log: models.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:13:17  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:02:39  ram
?RCS: patch6: added default for large
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:models split small medium large huge: test cat Myread sysman Oldconfig \
 Loc contains rm
?MAKE: -pick add $@ %<
?S:models:
?S: This variable contains
 the list of memory models supported by this
?S: system.  Possible component values are none, split, unsplit, small,
?S: medium, large, and huge.  The component values are space separated.
?S:.
?S:split:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program that will run in separate I and D space, for those
?S: machines that support separation of instruction and data space.  It is
?S: up to the Makefile to use this.
?S:.
?S:small:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program running with a small memory model.  It is up to
?S: the Makefile to use this.
?S:.
?S:medium:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program running with a medium memory model.  If the
?S: medium model is not supported, contains the flag to produce large
?S: model programs.  It is up to the Makefile to use this.
?S:.
?S:large:
?S: This variable contains a flag
```

```
 which will tell the C compiler and loader
?S: to produce a program running with a large memory model.  It is up to
?S: the Makefile to use this.
?S:.
?S:huge:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program running with a huge memory model.  If the
?S: huge model is not supported, contains the flag to produce large
?S: model programs.  It is up to the Makefile to use this.
?S:.
?T:unsplit tans modelcc
?F:!pdp11
?D:large=''
?LINT:extern cc
: see what memory models we can support
case "$models" in
'')
?X: We may not use Cppsym or we get a circular dependency through cc.
?X: But this should work regardless of which cc we eventually use.
 $cat >pdp11.c <<'EOP'
int main() {
#ifdef pdp11
 exit(0);
#else
 exit(1);
#endif
}
EOP
?X: Run cc in a subshell in case they don't have a 'cc' command.
?X: Presumably they do have gcc or something.
 case "$cc" in
 '') modelcc="$cc" ;;
 *) modelcc="cc" ;;
 esac
 ( $modelcc -o pdp11 pdp11.c ) >/dev/null 2>&1
 if
 $test -f pdp11 && ./pdp11 2>/dev/null; then
  dflt='unsplit split'
 else
  tans=`./loc . X /lib/small /lib/large /usr/lib/small /usr/lib/large /lib/medium /usr/lib/medium /lib/huge`
  case "$tans" in
  X) dflt='none';;
  *) if $test -d /lib/small || $test -d /usr/lib/small; then
    dflt='small'
   else
    dflt=''
   fi
   if $test -d /lib/medium || $test -d /usr/lib/medium; then
```

```
    dflt="$dflt medium"
   fi
   if $test -d /lib/large || $test -d /usr/lib/large; then
    dflt="$dflt large"
   fi
   if $test -d /lib/huge || $test -d /usr/lib/huge; then
    dflt="$dflt huge"
   fi
  esac
 fi;;
*) dflt="$models";;
esac
$cat <<EOM

Some systems have different model sizes.  On most systems they are called
small, medium, large, and huge.  On the PDP11 they are called unsplit and
split.  If your system doesn't support different memory models, say "none".
If you wish to force everything to one memory model, say "none" here and
put the appropriate flags later when it asks you for other
 cc and ld flags.
Venix systems may wish to put "none" and let the compiler figure things out.
(In the following question multiple model names should be space separated.)

The default for most systems is "none".

EOM
rp="Which memory models are supported?"
. ./myread
models="$ans"

case "$models" in
none)
 small=''
 medium=''
 large=''
 huge=''
 unsplit=''
 split=''
 ;;
*split)
 case "$split" in
 '') if $contains '\-i' $sysman/ld.1 >/dev/null 2>&1 || \
    $contains '\-i' $sysman/cc.1 >/dev/null 2>&1; then
   dflt='-i'
  else
   dflt='none'
  fi;;
 *) dflt="$split";;
```

```
esac
rp="What flag indicates separate I and D space?"
. ./myread
tans="$ans"
case "$tans" in
none) tans=";;
esac
split="$tans"
unsplit=";;
*large*|*small*|*medium*|*huge*)
case "$models" in
*large*)
 case "$large" in
 ") dflt='-Ml';;
 *) dflt="$large";;
 esac
rp="What flag indicates large model?"
. ./myread
tans="$ans"
case "$tans" in
none) tans=";
esac
large="$tans";;
*) large=";;
esac
case "$models"
in
*huge*) case "$huge" in
 ") dflt='-Mh';;
 *) dflt="$huge";;
 esac
 rp="What flag indicates huge model?"
 . ./myread
 tans="$ans"
 case "$tans" in
 none) tans=";
 esac
 huge="$tans";;
*) huge="$large";;
esac
case "$models" in
*medium*) case "$medium" in
 ") dflt='-Mm';;
 *) dflt="$medium";;
 esac
 rp="What flag indicates medium model?"
 . ./myread
 tans="$ans"
```

```
 case "$tans" in
 none) tans='';
 esac
 medium="$tans";;
*) medium="$large";;
esac
case "$models" in
*small*) case "$small" in
 '') dflt='none';;
 *) dflt="$small";;
 esac
 rp="What flag indicates small model?"
 . ./myread
 tans="$ans"
 case "$tans" in
 none) tans='';
 esac
 small="$tans";;
*) small='';;
esac
;;
*)
 echo "Unrecognized memory models--you may have to edit Makefile.SH" >&4
 ;;
esac
$rm -f pdp11.* pdp11
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/models.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_table.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_table.U,v $
?RCS: Revision 3.0.1.2  1993/11/10  17:34:14  ram
?RCS: patch14: wrongly mentionned an obsolete symbol
?RCS:
?RCS: Revision 3.0.1.1  1993/10/16  13:49:29  ram
?RCS: patch12: created
```

```
?RCS:
?MAKE:d_table: Inlibc
?MAKE: -pick add $@ %<
?S:d_table:
?S: This variable conditionally defines HAS_TABLE if table() is
?S: available to examine/update elements from a system table.
?S:.
?C:HAS_TABLE:
?C: This symbol, if defined, indicates that the OSF/1
 table() system
?C: call is available to examine/update items from a system table.
?C:.
?H:#$d_table HAS_TABLE /**/
?H:.
?LINT:set d_table
: see if table exists
set table d_table
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_table.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: usedtrace.U,v $
?RCS:
?RCS: Copyright (c) 2008 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: usedtrace.U,v $
?RCS:
?MAKE:usedtrace dtrace: Myread Oldconfig Setvar Getfile test
?MAKE: -pick add $@ %<
?Y:TOP
?S:usedtrace:
?S: This variable indicates whether we are compiling with dtrace
?S: support. See also dtrace.
?S:.
?S:dtrace:
?S: This variable holds the location of the dtrace executable.
?S:.
?C:USE_DTRACE:
?C: This symbol, if defined, indicates that Perl should
?C: be built with support for DTrace.
?C:.
?H:#$usedtrace USE_DTRACE  /**/
```

```
?H:.
?T:dflt_dtrace
?LINT:set usedtrace
?LINT:set dtrace
: DTrace support
dflt_dtrace='/usr/sbin/dtrace'
$test -x /usr/bin/dtrace && dflt_dtrace='/usr/bin/dtrace'

cat <<EOM

Perl can be built to support DTrace on platforms that support
 it.
DTrace is a diagnosis and performance analysis tool from Sun.

If this doesn't make any sense to you, just accept the default.
EOM

while $test 1 ; do
 case "$usedtrace" in
 $define|true|[yY]*)
  dflt='y'
  ;;
 $undef|false|[nN]*)
  dflt='n'
  dflt_dtrace=""
  ;;
 ?*)
  dflt='y'
  dflt_dtrace=$usedtrace
  ;;
 *)
  dflt='n'
  ;;
 esac

 rp='Support DTrace if available?'
 . ./myread
 case "$ans" in
 y|Y) val="$define" ;;
 *)      val="$undef" ;;
 esac
 set usedtrace
 eval $setvar

 test "X$usedtrace" != "X$define" && break

 echo " "
 rp='Where is the dtrace executable?'
```

```
 dflt=$dflt_dtrace
 . ./getfile
 val="$ans"
 set dtrace
 eval $setvar

 if $test -f $dtrace
 then
  if $dtrace -h -s ../perldtrace.d \
   -o perldtrace.tmp >/dev/null 2>&1 \
   && rm -f perldtrace.tmp
  then
   echo " "
   echo "Good: your $dtrace knows about the -h flag."
  else
   cat >&2 <<EOM

*** $me:  Fatal Error:  $dtrace doesn't support -h flag
***
*** Your installed dtrace doesn't support the -h switch to
 compile a D
*** program into a C header. Can't continue.

EOM
   exit 1
  fi
  break;
 fi

 case "$fastread" in
 yes)
  cat >&2 <<EOM

*** $me:  Fatal Error:  $dtrace not found.
*** Can't continue.

EOM
  exit 1
  ;;
 *)
  echo "*** $dtrace was not found."
  echo " "
  ;;
 esac
done
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/perl/usedtrace.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strstr.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strstr.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:37  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strstr: Inlibc
?MAKE: -pick add $@ %<
?S:d_strstr:
?S: This variable conditionally defines HAS_STRSTR if strstr() is
?S: available to find substrings.
?S:.
?C:HAS_STRSTR (STRSTR):
?C: This symbol, if defined, indicates that the strstr routine is
?C: available to find substrings.
?C:.
?H:#$d_strstr HAS_STRSTR /**/
?H:.
?LINT:set d_strstr
:
 see if strstr exists
set strstr d_strstr
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strstr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_nanosleep: Inlibc
?MAKE: -pick add $@ %<
?S:d_nanosleep:
?S: This variable conditionally defines HAS_NANOSLEEP
?S: if nanosleep() is available to sleep with 1E-9 sec accuracy.
?S:.
?C:HAS_NANOSLEEP:
?C: This symbol, if defined, indicates that the nanosleep
?C: system call is available to sleep with 1E-9 sec accuracy.
?C:.
?H:#$d_nanosleep HAS_NANOSLEEP  /**/
?H:.
?LINT:set d_nanosleep
: see if nanosleep exists
set nanosleep d_nanosleep
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_nanosleep.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_chroot.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_chroot.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:17  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_chroot: Inlibc
?MAKE: -pick add $@ %<
?S:d_chroot:
?S: This variable conditionally defines the HAS_CHROOT symbol, which
?S: indicates to the C program that the chroot() routine is available.
?S:.
?C:HAS_CHROOT :
?C: This symbol, if defined, indicates that the chroot routine
```

```
 is
?C: available.
?C:.
?H:#$d_chroot HAS_CHROOT  /**/
?H:.
?LINT:set d_chroot
: see if chroot exists
set chroot d_chroot
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_chroot.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: AAAAA.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: AAAAA.U,v $
?RCS: Revision 3.0.1.4  1994/06/20  06:50:26  ram
?RCS: patch30: changes from Jarkko Hietaniemi are tagged with JHI
?RCS:
?RCS: Revision 3.0.1.3  1994/05/06  14:01:39  ram
?RCS: patch23: initials for Wayne Davison are now WED
?RCS: patch23: added initials for new unit contributor Andy Dougherty
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:01:09  ram
?RCS: patch16: make metalint shut up on special unit definition for All target
?RCS:
?RCS: Revision
 3.0.1.1  1993/09/13  15:43:57  ram
?RCS: patch10: documents initials used for Wayne Davison's contributions
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this file is to supply the head of the Makefile created
?X: by metaconfig.  For this reason it must be first in alphabetical order.
?X: The leading '+' in front of the unit name is a hint for metalint, since
?X: the use of that special unit name as a "made" unit is legitimate here.
```

```
?X:
?MAKE:+All: Finish
?X:
?X: Throughout the units, the following initials are used to identify comments:
?X:
?X:  HMS: Harlan Stenn
?X:  RAM: Raphael Manfredi
?X:  WED: Wayne Davison (was WAD by mistake--RAM)
?X:  ADO: Andy Dougherty
?X:  JHI: Jarkko Hietaniemi
?X:
?X: Agreed, this is a weird place to document it, but I couldn't find a better
?X: place to do so. I've bet on the curiosity of users, who would probably
?X: want to know what's in this strangely-named file--RAM.
```

Found
 in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/AAAAA.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pread.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_pread.U,v $
?RCS:
?MAKE:d_pread: Inlibc
?MAKE: -pick add $@ %<
?S:d_pread:
?S: This variable conditionally defines the HAS_PREAD symbol, which
?S: indicates to the C program that the pread() routine is available.
?S:.
?C:HAS_PREAD :
?C: This symbol, if defined, indicates that the pread routine is
?C: available to perform reads on a file descriptor at a given offset.
?C:.
?H:#$d_pread HAS_PREAD  /**/
?H:.
?LINT:set d_pread
: see if pread exists
set
```

```
 pread d_pread
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_pread.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_log1p: Inlibc
?MAKE: -pick add $@ %<
?S:d_log1p:
?S: This variable conditionally defines the HAS_LOG1P symbol, which
?S: indicates to the C program that the logp1() routine is available
?S: to compute log(1 + x) for values of x close to zero.
?S:.
?C:HAS_LOG1P:
?C: This symbol, if defined, indicates that the log1p routine is
?C: available to do the logarithm of 1 plus argument function.
?C:.
?H:#$d_log1p HAS_LOG1P  /**/
?H:.
?LINT:set d_log1p
: see if log1p exists
set log1p d_log1p
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_log1p.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS: Copyright (c) 2019, Karl Williamson
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_setlocale d_setlocale_accepts_any_locale_name d_has_C_UTF8: \
 cat Compile run rm_try i_locale i_wctype d_towupper Setvar Myread
?MAKE: -pick add $@ %<
?S:d_has_C_UTF8:
?S: This variable is set to either "true" or "false" depending on
```

```
?S: whether the compilation system supports the C.UTF-8 locale.
?S:.
?S:d_setlocale:
?S: This variable conditionally defines HAS_SETLOCALE if setlocale() is
?S: available to handle locale-specific ctype implementations.
?S:.
?S:d_setlocale_accepts_any_locale_name:
?S: This
 variable conditionally defines SETLOCALE_ACCEPTS_ANY_LOCALE_NAME
?S: if setlocale() accepts any locale name.
?S:.
?C:HAS_SETLOCALE:
?C: This symbol, if defined, indicates that the setlocale routine is
?C: available to handle locale-specific ctype implementations.
?C:.
?C:SETLOCALE_ACCEPTS_ANY_LOCALE_NAME:
?C: This symbol, if defined, indicates that the setlocale routine is
?C: available and it accepts any input locale name as valid.
?C:.
?H:#$d_setlocale HAS_SETLOCALE /**/
?H:#$d_setlocale_accepts_any_locale_name SETLOCALE_ACCEPTS_ANY_LOCALE_NAME /**/
?H:.
?F:!try
?T:LC_CTYPE c_utf8_locale
: check for setlocale function and behavior
case "$d_setlocale" in
")
$cat >&4 <<EOM

Checking to see if you have setlocale() and its behavior
EOM
$cat >try.c <<EOCP
#include <stdlib.h>
#include <string.h>
#$i_locale I_LOCALE
#ifdef I_LOCALE
#  include <locale.h>
#endif
#$i_wctype I_WCTYPE
#ifdef I_WCTYPE
#  include <wctype.h>
#endif

int main() {
   const char * invalid_name
 = "\a";   /* This is really invalid! */
   int accepts_any_locale_name = 0;
   int has_C_UTF8 = 0;
```

```
   unsigned char bad_setlocale = 255;

   /* If LC_CTYPE isn't defined the compilation will fail, and locales will be
    * disabled.  It's hard to imagine an instance where meaningful locale
    * handling could be done without LC_CTYPE */
   const char *  name = setlocale(LC_CTYPE, "C");

   if (name == NULL || strcmp(name, "C") != 0) {
       exit(bad_setlocale);
   }

   name = setlocale(LC_CTYPE, invalid_name);
   if (name != NULL) {

       /* Let it pass if it accepts the name but gives back one of the C
        * locales */
       if (strcmp(name, "C") != 0 && strcmp(name, "C.UTF-8") != 0) {
           accepts_any_locale_name = 1;
       }
   }

   name = setlocale(LC_CTYPE, "C.UTF-8");
   if (name != NULL) {
       unsigned char y_with_diaeresis = ('A' == 193) ? 0xDF : 0xFF;

#$d_towupper HAS_TOWUPPER
#ifdef HAS_TOWUPPER

       /* We assume that if
 the machine doesn't have the C99 towupper, it
        * doesn't have C.UTF-8, even if we successfully changed locales to
        * include it.  This seems safer even on platforms that didn't accept
        * the really invalid name */

       if (towupper(y_with_diaeresis) == 0x178) {
           has_C_UTF8 = 1;
       }

#endif

   }

#if 0

   /* Currently unused code to determine if LC_ALL with disparate values uses
    * category = value pairs or positional, and to determine the separator
    * between the categories.  We could add code so that if the separator were
    * > '9', we subtract 10; similarly for 'Z' and 'z', and then just about
```

```
   * every possible ASCII separator would fit in the 5 bits available in the
   * exit code.  This would not be true in EBCDIC.  And then if LC_ALL is
   * positional, we probably would want to know the order of the categories.
   * Using a file between the C program and the shell script would really be
   * require to do that
 */
#ifdef LC_ALL

  unsigned char min_separator = ' ' - 1;
  unsigned char separator = min_separator;
  int uses_name_value_pair_names = 0;

  name = setlocale(LC_ALL, "C");
  if (name == NULL || strcmp(name, "C") != 0) {
     exit(bad_setlocale);
  }

  if (has_C_UTF8) {
     char * pos;

     name = setlocale(LC_CTYPE, "C.UTF-8");
     if (name == NULL) {
        exit(bad_setlocale);
     }
     name = setlocale(LC_ALL, NULL);
     if (name == NULL) {
        exit(bad_setlocale);
     }

     pos = strstr(name, "LC_CTYPE" "=C.UTF-8");
     if (pos != NULL) {
        uses_name_value_pair_names = 1;
        if (pos == name) {
           separator = name[sizeof("LC_CTYPE=C.UTF-8") - 1];
        }
        else {
           separator = *(pos - 1);
        }
     }
     else {
        pos = strstr(name, "C.UTF-8");
        if (pos == NULL) {
           /* bad */
        }

  else if (pos == name) {
           separator = name[sizeof("C.UTF-8") - 1];
        }
```

```
        else {
            separator = *(pos - 1);
        }
    }
  }

#endif
#endif

  exit( 0 /* (separator - min_separator) << 3
     | uses_name_value_pair_names      << 2
       */
     | has_C_UTF8                      << 1
     | accepts_any_locale_name);

}
EOCP
val=
set d_setlocale
eval $setvar
case $d_setlocale in
  $undef) d_setlocale_accepts_any_locale_name="$undef"
         d_has_C_UTF8="false"
         ;;
  *) set try
     if eval $compile; then
        echo "Your system has setlocale()..." >&4
        $run ./try
        case $? in
           0) echo "and it seems sane; you don't have a C.UTF-8 locale" >&4
              d_setlocale="$define"
              d_setlocale_accepts_any_locale_name="$undef"
              d_has_C_UTF8="false"
              ;;
           1) echo "and it seems sane, but accepts
 any locale name as valid" >&4
              d_setlocale="$define"
              d_setlocale_accepts_any_locale_name="$define"
              d_has_C_UTF8="false"
              ;;
           2) echo "and it seems sane; you have a C.UTF-8 locale" >&4
              d_setlocale="$define"
              d_setlocale_accepts_any_locale_name="$undef"
              d_has_C_UTF8="true"
              ;;
           3) echo "and it seems sane, but accepts any locale name as valid" >&4
              d_setlocale="$define"
              d_setlocale_accepts_any_locale_name="$define"
```

```
            d_has_C_UTF8="true"
            ;;
          *) echo "but it doesn't seem to work, so we won't use it." >&4
            d_setlocale="$undef"
            d_setlocale_accepts_any_locale_name="$undef"
            d_has_C_UTF8="false"
            ;;
        esac
    else
        echo "your system does not have setlocale()"
 >&4
        d_setlocale="$undef"
        d_setlocale_accepts_any_locale_name="$undef"
        d_has_C_UTF8="false"
    fi
esac
$rm_try
;;
*) val="$d_setlocale"
  set d_setlocale
  eval $setvar
  case "$d_setlocale" in
     $undef) echo "There may be other ways to set the locale on your system, so we need to ask:" >&4
     ;;
  esac
  rp="Does your system have the C.UTF-8 locale?"
  dflt=n
  . ./myread
  case "$ans" in
     [Yy]*) d_has_C_UTF8="true"
            c_utf8_locale=" or C.UTF-8"
            ;;
     *)     d_has_C_UTF8="false"
            c_utf8_locale=""
            ;;
  esac
  case "$d_setlocale" in
     $define)
         rp="When you set your locale to something besides C$c_utf8_locale, does it do so, or just pretend to?" >&4
         dflt=n
         . ./myread
         case "$ans" in
            true|[Yy]*)
   d_setlocale_accepts_any_locale_name="$undef"
   ;;
 *) d_setlocale_accepts_any_locale_name="$define"
```

```
  ;;
        esac
        ;;
      *) d_setlocale_accepts_any_locale_name="$undef"
   ;;
  esac
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_setlocale.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_memcpy.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memcpy.U,v $
?RCS: Revision 3.0.1.1  1993/09/13  16:02:58  ram
?RCS: patch10: removed text recommending bcopy over memcpy (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:34  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_memcpy: Inlibc
?MAKE: -pick add $@ %<
?S:d_memcpy:
?S: This variable conditionally defines the HAS_MEMCPY symbol, which
?S: indicates to the C program that the memcpy() routine is available
?S: to copy blocks of
 memory.
?S:.
?C:HAS_MEMCPY (MEMCPY):
?C: This symbol, if defined, indicates that the memcpy routine is available
?C: to copy blocks of memory.
?C:.
?H:#$d_memcpy HAS_MEMCPY /**/
?H:.
?LINT:set d_memcpy
: see if memcpy exists
set memcpy d_memcpy
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_memcpy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sigvec.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sigvec.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:45:37  ram
?RCS: patch61: there is now a separate routine for sigaction()
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X: d_sigvec.U, from d_ftime.U 1.0
?X:
?MAKE:d_sigvec d_sigvectr d_sigintrp: Csym Inlibc Setvar
?MAKE: -pick add $@ %<
?S:d_sigvec:
?S: This variable conditionally defines the HAS_SIGVEC symbol, which indicates
?S: that BSD
 reliable signals are supported.
?S:.
?S:d_sigvectr:
?S: This variable conditionally defines the HAS_SIGVECTOR symbol, which
?S: indicates that the sigvec() routine is called sigvector() instead, for
?S: reasons known only to Hewlett-Packard.
?S:.
?S:d_sigintrp:
?S: This variable conditionally defines the HAS_SIGINTRP symbol, which
?S: indicates that the siginterrupt() routine is available.
?S:.
?C:HAS_SIGVEC (SIGVEC):
?C: This symbol, if defined, indicates that BSD reliable signals are
?C: supported.
?C:.
?C:HAS_SIGVECTOR (SIGVECTOR):
?C: This symbol, if defined, indicates that the sigvec() routine is called
?C: sigvector() instead, and that sigspace() is provided instead of
```

```
?C: sigstack().  This is probably only true for HP-UX.
?C:.
?C:HAS_SIGINTRP (SIGINTRP):
?C: This symbol, if defined, indicates that the siginterrupt() routine
?C: is available.
?C:.
?H:#$d_sigvec HAS_SIGVEC /**/
?H:#$d_sigvectr HAS_SIGVECTOR /**/
?H:#$d_sigintrp HAS_SIGINTRP /**/
?H:.
?T:val
?LINT:set d_sigvec d_sigintrp
@if
 d_sigvectr || d_sigvec || HAS_SIGVEC || HAS_SIGVECTOR
: see if sigvector exists -- since sigvec will match the substring
echo " "
if set sigvector val -f d_sigvectr; eval $csym; $val; then
 echo 'sigvector() found--you must be running HP-UX.' >&4
 val="$define"; set d_sigvectr; eval $setvar
 val="$define"; set d_sigvec; eval $setvar
else
: try the original name
 d_sigvectr="$undef"
 if set sigvec val -f d_sigvec; eval $csym; $val; then
  echo 'sigvec() found.' >&4
  val="$define"; set d_sigvec; eval $setvar
 else
  echo 'sigvec() not found--race conditions with signals may occur.' >&4
  val="$undef"; set d_sigvec; eval $setvar
 fi
fi

@end
@if d_sigintrp || HAS_SIGINTRP
: see if we have siginterrupt
set siginterrupt d_sigintrp
eval $inlibc

@end
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sigvec.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
```

```
?MAKE:d_tgamma: Inlibc
?MAKE: -pick add $@ %<
?S:d_tgamma:
?S: This variable conditionally defines the HAS_TGAMMA symbol, which
?S: indicates to the C program that the tgamma() routine is available
?S: for the gamma function.  See also d_lgamma.
?S:.
?C:HAS_TGAMMA:
?C: This symbol, if defined, indicates that the tgamma routine is
?C: available to do the gamma function. See also HAS_LGAMMA.
?C:.
?H:#$d_tgamma HAS_TGAMMA  /**/
?H:.
?LINT:set d_tgamma
: see if tgamma exists
set tgamma d_tgamma
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_tgamma.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sbrktype.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sbrktype.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:43  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:sbrktype: Myread Oldconfig Loc contains Findhdr
?MAKE: -pick add $@ %<
?S:sbrktype:
?S: This variable defines sbrktype to be something like caddr_t, char *,
?S: or whatever type is used to declare sbrk() in the kernel.
?S:.
?C:Caddr_t (SBRKTYPE):
?C: This symbol holds the type of a core address. It is inteded to be used
?C: to safely
 declare the return type of system calls like sbrk(). It might
?C: be necessary to include <sys/types.h> as well.
```

```
?C:.
?H:#define Caddr_t $sbrktype /* <core address> type */
?H:.
: see what type sbrk is declared as in the kernel
case "$sbrktype" in
")
 if $contains 'caddr_t;' `./findhdr sys/types.h` >/dev/null 2>&1 ; then
  dflt='caddr_t';
 else
  dflt='char *';
 fi
 ;;
*)  dflt="$sbrktype"
 ;;
esac
echo " "
rp="What is the return type of sbrk() on this system?"
. ./myread
sbrktype="$ans"
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/sbrktype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: lex.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Orginal Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: lex.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:22:50  ram
?RCS: patch36: spurious single quote could cause Configure to crash
?RCS: patch36: (reported by Xavier Le Vourch <xavierl@eiffel.com>.)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:27:09  ram
?RCS: patch32: added lexflags variable for lex flags setting
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:06:01  ram
?RCS: patch23: added
```

```
 trailing blank line for metalint
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lex lexflags: Guess Myread Oldconfig flex test
?MAKE: -pick add $@ %<
?S:lex:
?S: This variable holds the name of the lexical analyser generator we
?S: want to use in the Makefile. It can be lex or flex.
?S:.
?S:lexflags:
?S: This variable holds any flags that should be passed to the lexical
?S: analyzer.  It is up to the Makefile to use it.
?S:.
: determine lexical analyser generator
case "$lex" in
")
 dflt=lex;;
*)
 dflt="$lex";;
esac
echo " "
if $test -f "$flex"; then
 rp='Which lexical analyser generator (lex or flex) shall I use?'
else
 rp='Which lexical analyser generator shall I use?'
fi
. ./myread
lex="$ans"

@if lexflags
: if using lex this will normally be useless, but flex frequently takes args
echo " "
case "$lexflags" in
") dflt='none';;
*) dflt="$lexflags";;
esac
rp="What flags should be given to $lex?"
. ./myread
case "$ans"
 in
none) lexflags=";;
*) lexflags="$ans";;
esac

@end
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/lex.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Csym.U,v $
?RCS: Revision 3.0.1.4  1995/07/25  13:36:29  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS: patch56: added quotes for OS/2 support
?RCS:
?RCS: Revision 3.0.1.3  1995/05/12  12:00:33  ram
?RCS: patch54: fixed C test program to bypass gcc builtin type checks (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/10/31  09:34:13  ram
?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:00:05  ram
?RCS:
 patch6: added ldflags as a conditional dependency and to compile line
?RCS: patch6: a final double quote was missing in csym variable after eval
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:Csym: Options contains libc libs runnm +cc +ccflags +ldflags rm
?MAKE: -pick add $@ %<
?LINT:define csym
?LINT:use libc
?S:csym:
?S: This shell variable is used internally by Configure to check
?S: wether a given C symbol is defined or not. A typical use is:
?S:  set symbol result [-fva] [previous]
?S:  eval $csym
?S: That will set result to 'true' if the function [-f], variable [-v]
?S: or array [-a] is defined, 'false' otherwise. If a previous value is
?S: given and the -r flag was provided on the command line, that value
?S: is reused without questioning.
?S:.
```

```
?V:csym
?T:tval tx tlook tf tdc tc
: is a C symbol defined?
csym='tlook=$1;
case "$3" in
-v) tf=libc.tmp; tc=""; tdc="";;
-a) tf=libc.tmp; tc="[0]"; tdc="[]";;
*) tlook="^$1\$";
 tf=libc.list; tc=""; tdc="()";;
esac;
tx=yes;
case "$reuseval-$4" in
true-) ;;
true-*) tx=no; eval "tval=\$$4"; case "$tval" in "") tx=yes;; esac;;
esac;
case "$tx" in
yes)
 case "$runnm" in
 true)
  if $contains $tlook $tf >/dev/null 2>&1;
  then tval=true;
  else tval=false;
  fi;;
 *)
?X:
?X: We use 'char' instead of 'int' to try to circumvent overzealous
?X: optimizing compilers using built-in prototypes for commonly used
?X: routines to complain when seeing a different external declaration. For
?X: instance, gcc 2.6.3 fails if we use 'int' and we attempt a test against
?X: memcpy() on machines where sizeof(int) == sizeof(char *) (the usual return
?X: type), the compiler assuming it's a built-in declaration given that the
?X: returned size matches. At least with 'char' we are safe! -- RAM, for ADO
?X:
?X: Let's thank GNU cc for making our lifes so easy! :-)
?X: (An alternative for the future would be to use our knowledge about gcc
?X: to force a -fno-builtin option in the
 compile test, in case the 'char'
?X: trick is obsoleted by future gcc releases). -- RAM
?X:
?X: Lastly, gcc 3.4 otimizes &missing == 0 away, so we use + 2 instead now.
?X: The GNU folks like to do weird things, don't they? -- RAM, 2004-06-05
?X:
  echo "extern char $1$tdc; int main() { return &$1$tc + 2; }" > t.c;
  if $cc $ccflags $ldflags -o t t.c $libs >/dev/null 2>&1;
  then tval=true;
  else tval=false;
  fi;
  $rm -f t t.c;;
```

```
 esac;;
*)
 case "$tval" in
 $define) tval=true;;
 *) tval=false;;
 esac;;
esac;
eval "$2=$tval"'
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Csym.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_syssock.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_syssock.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:36  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_syssock: Inhdr
?MAKE: -pick add $@ %<
?S:i_syssock:
?S: This variable conditionally defines the I_SYS_SOCKET symbol, and indicates
?S: whether a C program should include <sys/socket.h> before performing socket
?S: operations.
?S:.
?C:I_SYS_SOCKET:
?C: This symbol, if defined, indicates to the C program that it should
?C: include
 <sys/socket.h> before performing socket calls.
?C:.
?H:#$i_syssock I_SYS_SOCKET  /**/
?H:.
?LINT:set i_syssock
: see if this is a sys/socket.h system
set sys/socket.h i_syssock
eval $inhdr
```

Found in path(s):

* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_syssock.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: setsid.C,v 3.0.1.1 1994/01/24 13:58:47 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* $Log: setsid.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:47  ram
* patch16: created
*
*/
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/lib/C/fake/setsid.C
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_inetd.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_inetd.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:23  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_inetd: cat test package Myread Setvar
?MAKE: -pick add $@ %<
?S:d_inetd:
?S: This symbol conditionally defines USE_INETD which indicates to the C
?S: program that the initial socket connection will be done via inetd.
?S:.
?C:USE_INETD (INETD):
?C: This symbol if defined indicates to the C program that inetd will be
```

```
?C: in charge of the
 initial socket connection. The file descriptors 0 and
?C: 1 have been dup()ed from the original connected socket descriptor and
?C: are ready for send() and recv().
?C:.
?H:#$d_inetd USE_INETD  /**/
?H:.
?LINT:set d_inetd
: ask whether initial socket connection is to be done via inetd
echo " "
dflt=n
case "$d_inetd" in
") if $test -f /etc/inetd.conf; then
  $cat <<EOM
Your system provides a so called "Internet super-server", the inetd daemon.
Network services like ftp or rlogin are usually handled via ftpd and rlogind
daemons. Without inetd, these daemons must always be running for the service
to be on. On the contrary, inetd listens to specific ports defined in file
/etc/inetd.conf and will run the appropriate daemon upon request. This scheme
avoids eating up the process table and memory with useless daemons.

I can set up things so that internet connections for $package will be done
using inetd, in which case you will have to edit /etc/inetd.conf to add some
specific informations.

EOM
  dflt=y
 else
  $cat
 <<EOM
I do not see any trace of a configuration file for inetd, hence I assume your
system does not support the so called "Internet super-server". This means
$package will need to have a daemon process running on this machine to allow
network connections.

EOM
 fi;;
*) case "$d_inetd" in
 "$define") dflt=y;;
 esac;;
esac
rp='Do you wish to use inetd for network connections?'
. ./myread
val="$undef"
case "$ans" in
y*|Y*) val="$define";;
esac
set d_inetd
```

```
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_inetd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getpwent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getpwent: Csym Setvar
?MAKE: -pick add $@ %<
?S:d_getpwent:
?S: This variable conditionally defines the HAS_GETPWENT symbol, which
?S: indicates to the C program that it should use the getpwent()
?S: routine instead of the getpw() routine.
?S:.
?C:HAS_GETPWENT (GETPWENT):
?C: This symbol, if defined, indicates that the getpwent() routine
?C: should be used instead of the getpw()
 routine.
?C:.
?H:#$d_getpwent HAS_GETPWENT /**/
?H:.
?LINT:set d_getpwent
: see if there is a getpwent
echo " "
if set getpwent val -f d_getpwent; eval $csym; $val; then
 echo "getpwent() found." >&4
 val="$define"
else
 echo "No getpwent() found -- will use getpw() instead." >&4
 val="$undef"
fi
set d_getpwent
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getpwent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ctermid_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_ctermid_r ctermid_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads extern_C
?MAKE: -pick add $@ %<
?S:d_ctermid_r:
?S: This variable conditionally defines the HAS_CTERMID_R symbol,
?S: which indicates to the C program that the ctermid_r()
?S: routine is available.
?S:.
?S:ctermid_r_proto:
?S: This variable encodes the prototype of ctermid_r.
?S: It is zero if d_ctermid_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_ctermid_r
?S: is defined.
?S:.
?C:HAS_CTERMID_R:
?C: This symbol, if defined, indicates that the ctermid_r routine
?C: is available to ctermid re-entrantly.
?C:.
?C:CTERMID_R_PROTO:
?C: This
 symbol encodes the prototype of ctermid_r.
?C: It is zero if d_ctermid_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_ctermid_r
?C: is defined.
?C:.
?H:#$d_ctermid_r HAS_CTERMID_R /**/
?H:#define CTERMID_R_PROTO $ctermid_r_proto /**/
?H:.
?T:try hdrs d_ctermid_r_proto
: see if ctermid_r exists
set ctermid_r d_ctermid_r
eval $inlibc
case "$d_ctermid_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h "
```

```
 case "$d_ctermid_r_proto:$usethreads" in
 ":define") d_ctermid_r_proto=define
  set d_ctermid_r_proto ctermid_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_ctermid_r_proto" in
 define)
 case "$ctermid_r_proto" in
 "|0) try='char* ctermid_r(char*);'
 ./protochk "$extern_C $try" $hdrs && ctermid_r_proto=B_B ;;
 esac
 case "$ctermid_r_proto" in
 "|0) d_ctermid_r=undef
  ctermid_r_proto=0
  echo "Disabling ctermid_r, cannot determine prototype." >&4 ;;
 * ) case "$ctermid_r_proto" in
  REENTRANT_PROTO*) ;;
  *)
 ctermid_r_proto="REENTRANT_PROTO_$ctermid_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "ctermid_r has no prototype, not using it." >&4 ;;
  esac
  d_ctermid_r=undef
  ctermid_r_proto=0
  ;;
 esac
 ;;
*) ctermid_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_ctermid_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sanemcmp.U,v 3.0.1.1 1997/02/28 15:41:19 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_sanemcmp.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:41:19  ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_sanemcmp: Compile cat d_memcmp rm_try run \
 i_memory i_stdlib i_string i_unistd Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_sanemcmp:
?S: This variable conditionally defines the HAS_SANE_MEMCMP symbol if
?S: the memcpy() routine is available and can be used to compare relative
?S: magnitudes of chars with their high bits set.
?S:.
?C:HAS_SANE_MEMCMP:
?C: This
 symbol, if defined, indicates that the memcmp routine is available
?C: and can be used to compare relative magnitudes of chars with their high
?C: bits set.  If it is not defined, roll your own version.
?C:.
?H:#$d_sanemcmp HAS_SANE_MEMCMP /**/
?H:.
?F:!try
?LINT: set d_sanemcmp
: can memcmp be trusted to compare relative magnitude?
?X: assume the worst
val="$undef"
case "$d_memcmp" in
"$define")
 echo " "
 echo "Checking if your memcmp() can compare relative magnitude..." >&4
 $cat >try.c <<EOCP
#$i_memory I_MEMORY
#$i_stdlib I_STDLIB
#$i_string I_STRING
#$i_unistd I_UNISTD
EOCP
 $cat >>try.c <<'EOCP'
#include <stdio.h>
#ifdef I_MEMORY
#  include <memory.h>
#endif
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#ifdef I_STRING
```

```
#  include <string.h>
#else
#  include <strings.h>
#endif
#ifdef I_UNISTD
#  include <unistd.h>  /* Needed for NetBSD */
#endif
int main()
{
char a = -1;
char b = 0;
if ((a < b) && memcmp(&a, &b, 1) < 0)
 exit(1);
exit(0);
}
EOCP
 set try
 if eval
 $compile_ok; then
  if $run ./try 2>/dev/null; then
   echo "Yes, it can."
   val="$define"
  else
   echo "No, it can't (it uses signed chars)."
  fi
 else
  echo "(I can't compile the test program, so we'll assume not...)"
 fi
 ;;
esac
$rm_try
set d_sanemcmp
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_sanemcmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_mktime.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_mktime.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:09:44  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_mktime: Inlibc
?MAKE: -pick add $@ %<
?S:d_mktime:
?S: This variable conditionally defines the HAS_MKTIME symbol, which
?S: indicates to the C program that the mktime() routine is available.
?S:.
?C:HAS_MKTIME :
?C: This symbol, if defined, indicates that the mktime routine
 is
?C: available.
?C:.
?H:#$d_mktime HAS_MKTIME  /**/
?H:.
?LINT:set d_mktime
: see if mktime exists
set mktime d_mktime
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_mktime.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getopt.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getopt.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getopt: Inlibc
?MAKE: -pick add $@ %<
?S:d_getopt:
?S: This variable conditionally defines the HAS_GETOPT symbol, which
```

```
?S: indicates that the getopt() routine exists.  The getopt() routine
?S: parses command line options in a standard fashion.
?S:.
?C:HAS_GETOPT (GETOPT):
?C: This symbol, if defined, indicates that the getopt() routine
 exists.
?C:.
?H:#$d_getopt HAS_GETOPT  /**/
?H:.
?LINT:set d_getopt
: see if getopt exists
set getopt d_getopt
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getopt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Options.U,v $
?RCS: Revision 3.0.1.7  1997/02/28  15:08:15  ram
?RCS: patch61: optdef.sh now starts with a "startsh"
?RCS: patch61: moved some code from Head.U
?RCS:
?RCS: Revision 3.0.1.6  1995/09/25  09:14:46  ram
?RCS: patch59: protected option parsing code against 'echo -*' option failure
?RCS:
?RCS: Revision 3.0.1.5  1995/05/12  12:04:52  ram
?RCS: patch54: added -K option for experts
?RCS:
?RCS: Revision 3.0.1.4  1995/01/30  14:27:52  ram
?RCS: patch49: this unit now exports file optdef.sh,
 not a variable
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:19:00  ram
?RCS: patch45: new -O option allowing -D and -U to override config.sh settings
?RCS: patch45: file optdef.sh is no longer removed after sourcing
?RCS:
```

```
?RCS: Revision 3.0.1.2  1994/10/29  15:58:06  ram
?RCS: patch36: ensure option definition file is removed before appending
?RCS: patch36: protect variable definitions with spaces in them
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:55:44  ram
?RCS: patch30: now uses new me symbol to tag error messages
?RCS: patch30: new -D and -U options to define/undef symbols (JHI)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Command line parsing. It is really important that the variables used here
?X: be not listed in the MAKE line, or they will be saved in config.sh and
?X: loading this file to fetch default answers would clobber the values set
?X: herein.
?X:
?MAKE:Options: startsh
?MAKE: -pick wipe $@ %<
?V:reuseval
 alldone error realsilent silent extractsh fastread \
 override knowitall: config_sh
?T:arg argn symbol config_arg0 config_args config_argc xxx yyy zzz uuu
?T:args_exp args_sep arg_exp
?F:!Configure
?F:./optdef.sh ./cmdline.opt ./posthint.sh ./cmdl.opt
: Save command line options in file UU/cmdline.opt for later use in
: generating config.sh.
?X: This temporary file will be read by Oldsym.U.  I used a temporary
?X: file to preserve all sorts of potential command line quotes and
?X: also because we don't know in advance how many variables we'll
?X: need, so I can't actually declare them on the MAKE line.
?X: The config_args variable won't be quite correct if Configure is
?X: fed something like    ./Configure -Dcc="gcc -B/usr/ccs/bin/"
?X: since the quotes are gone by the time we see them.  You'd have to
?X: reconstruct the command line from the config_arg? lines, but since
?X: I don't imagine anyone actually having to do that, I'm not going
?X: to worry too much.
cat > cmdline.opt
 <<EOSH
: Configure command line arguments.
config_arg0='$0'
config_args='$*'
config_argc=$#
EOSH
argn=1
args_exp="
args_sep="
```

```
for arg in "$@"; do
 cat >>cmdline.opt <<EOSH
config_arg$argn='$arg'
EOSH
?X: Extreme backslashitis: replace each ' by '''''
 cat <<EOC | sed -e "s/'/'''''''''''''''/g" > cmdl.opt
$arg
EOC
 arg_exp=`cat cmdl.opt`
 args_exp="$args_exp$args_sep'$arg_exp'"
 argn=`expr $argn + 1`
 args_sep=' '
done
?X: args_exp is good for restarting self: eval "set X $args_exp"; shift; $0 "$@"
?X: used by hints/os2.sh in Perl, for instance
rm -f cmdl.opt

: produce awk script to parse command line options
cat >options.awk <<'EOF'
BEGIN {
 optstr = "A:dD:eEf:hKOrsSU:V"; # getopt-style specification

 len = length(optstr);
 for (i = 1; i <= len; i++) {
  c = substr(optstr, i, 1);
?X: some older awk's do not have the C ?: construct
  if (i < len) a = substr(optstr, i + 1, 1); else a = "";
  if (a == ":") {
   arg[c] = 1;
   i++;
  }
  opt[c] = 1;
 }
}
{
 expect = 0;
 str = $0;
 if (substr(str,
 1, 1) != "-") {
  printf("'%s'\n", str);
  next;
 }
 len = length($0);
 for (i = 2; i <= len; i++) {
  c = substr(str, i, 1);
  if (!opt[c]) {
   printf("-%s\n", substr(str, i));
   next;
```

```
  }
  printf("-%s\n", c);
  if (arg[c]) {
   if (i < len)
    printf("'%s'\n", substr(str, i + 1));
   else
    expect = 1;
   next;
  }
 }
}
END {
 if (expect)
  print "?";
}
EOF

: process the command line options
?X: Use "$@" to keep arguments with spaces in them from being split apart.
?X: For the same reason, awk will output quoted arguments and the final eval
?X: removes them and sets a proper $* array. An 'X' is prependend to each
?X: argument before being fed to echo to guard against 'echo -x', where -x
?X: would be understood as an echo option! It is removed before feeding awk.
set X `for arg in "$@"; do echo "X$arg"; done |
 sed -e s/X// | awk -f options.awk`
eval "set $*"
shift
rm -f options.awk

: set up default values
fastread=''
reuseval=false
config_sh=''
alldone=''
error=''
silent=''
extractsh=''
overrideprefix=''
knowitall=''
rm
 -f optdef.sh posthint.sh
cat >optdef.sh <<EOS
$startsh
EOS

?X:
?X: Given that we now have the possibility to execute Configure remotely
?X: thanks to the new src.U support, we have to face the possibility
```

```
?X: of having to ask where the source lie, which means we need the Myread.U
?X: stuff and possibly other things that might echo something on the
?X: screen...
?X:
?X: That's not pretty, and might be confusing in 99% of the time. So...
?X: We introduce a new realsilent variable which is set when -s is given,
?X: and we force silent=true if -S is supplied. The Extractall.U unit
?X: will then undo the >&4 redirection based on the value of the
?X: realsilent variable... -- RAM, 18/93/96
?X:

: option parsing
while test $# -gt 0; do
 case "$1" in
 -d) shift; fastread=yes;;
 -e) shift; alldone=cont;;
 -f)
  shift
  cd ..
  if test -r "$1"; then
   config_sh="$1"
  else
   echo "$me: cannot read config file $1." >&2
   error=true
  fi
  cd UU
  shift;;
 -h)
 shift; error=true;;
 -r) shift; reuseval=true;;
 -s) shift; silent=true; realsilent=true;;
 -E) shift; alldone=exit;;
 -K) shift; knowitall=true;;
 -O) shift; override=true;;
 -S) shift; silent=true; extractsh=true;;
 -D)
  shift
  case "$1" in
  *=)
   echo "$me: use '-U symbol=', not '-D symbol='." >&2
   echo "$me: ignoring -D $1" >&2
   ;;
  *=*) echo "$1" | \
    sed -e "s/'/'\''\''/g" -e "s/=\(.*\)/='\1'/" >> optdef.sh;;
  *) echo "$1='define'" >> optdef.sh;;
  esac
  shift
  ;;
```

```
-U)
 shift
 case "$1" in
 *=) echo "$1" >> optdef.sh;;
 *=*)
  echo "$me: use '-D symbol=val', not '-U symbol=val'." >&2
  echo "$me: ignoring -U $1" >&2
  ;;
 *) echo "$1='undef'" >> optdef.sh;;
 esac
 shift
 ;;
-A)
   shift
   xxx=''
   yyy="$1"
   zzz=''
   uuu=undef
   case "$yyy" in
        *=*) zzz=`echo "$yyy"|sed 's!=.*!!'`
             case "$zzz" in
             *:*) zzz='' ;;
             *)   xxx=append
                  zzz=" "`echo
"$yyy"|sed 's!^[^=]*=!!'`
                  yyy=`echo "$yyy"|sed 's!=.*!!'` ;;
             esac
             ;;
        esac
        case "$xxx" in
        '')  case "$yyy" in
             *:*) xxx=`echo "$yyy"|sed 's!:.*!!'`
                  yyy=`echo "$yyy"|sed 's!^[^:]*:!!'`
                  zzz=`echo "$yyy"|sed 's!^[^=]*=!!'`
                  yyy=`echo "$yyy"|sed 's!=.*!!'` ;;
             *)   xxx=`echo "$yyy"|sed 's!:.*!!'`
                  yyy=`echo "$yyy"|sed 's!^[^:]*:!!'` ;;
             esac
             ;;
        esac
   case "$xxx" in
   append)
 echo "$yyy=\"\${$yyy}$zzz\"" >> posthint.sh ;;
   clear)
 echo "$yyy=''"   >> posthint.sh ;;
   define)
       case "$zzz" in
 '') zzz=define ;;
```

```
 esac
 echo "$yyy='$zzz'"  >> posthint.sh ;;
    eval)
 echo "eval \"$yyy=$zzz\"" >> posthint.sh ;;
    prepend)
 echo "$yyy=\"$zzz\${$yyy}\"" >> posthint.sh ;;
    undef)
        case "$zzz" in
 ")
zzz="$uuu" ;;
 esac
 echo "$yyy=$zzz"  >> posthint.sh ;;
          *)  echo "$me: unknown -A command '$xxx', ignoring -A $1" >&2 ;;
    esac
    shift
    ;;
 -V) echo "$me generated by metaconfig <VERSION> PL<PATCHLEVEL>." >&2
    exit 0;;
 --) break;;
 -*) echo "$me: unknown option $1" >&2; shift; error=true;;
 *) break;;
 esac
done

case "$error" in
true)
 cat >&2 <<EOM
Usage: $me [-dehrsEKOSV] [-f config.sh] [-D symbol] [-D symbol=value]
               [-U symbol] [-U symbol=] [-A command:symbol...]
 -d : use defaults for all answers.
 -e : go on without questioning past the production of config.sh.
 -f : specify an alternate default configuration file.
 -h : print this help message and exit (with an error status).
 -r : reuse C symbols value if possible (skips costly nm extraction).
 -s : silent mode, only echoes questions and essential information.
 -D : define symbol to have some value:
       -D symbol         symbol gets the value 'define'
       -D symbol=value
  symbol gets the value 'value'
 -E : stop at the end of questions, after having produced config.sh.
 -K : do not use unless you know what you are doing.
 -O : let -D and -U override definitions from loaded configuration file.
 -S : perform variable substitutions on all .SH files (can mix with -f)
 -U : undefine symbol:
       -U symbol    symbol gets the value 'undef'
       -U symbol=   symbol gets completely empty
 -A : manipulate symbol after the platform specific hints have been applied:
  -A symbol=value  append " "value to symbol
```

```
  -A append:symbol=value  append value to symbol
  -A define:symbol=value  define symbol to have value
        -A clear:symbol  define symbol to be ''
  -A define:symbol  define symbol to be 'define'
  -A eval:symbol=value  define symbol to be eval of value
  -A prepend:symbol=value prepend value to symbol
  -A undef:symbol  define symbol to be 'undef'
  -A undef:symbol=  define symbol to be ''
 -V : print version number and exit (with
 a zero status).
EOM
 exit 1
 ;;
esac

?X:
?X: Unless they specified either -S or both -d and -e/E, make sure we're
?X: running interactively, i.e. attached to a terminal. Moved from Head.U to
?X: be able to handle batch configurations...
?X:
?X: We have to hardwire the Configure name and cannot use $me, since if they
?X: said 'sh <Configure', then $me is 'sh'...
?X:
: Sanity checks
case "$fastread$alldone" in
yescont|yesexit) ;;
*)
 case "$extractsh" in
 true) ;;
 *)
  if test ! -t 0; then
   echo "Say 'sh Configure', not 'sh <Configure'"
   exit 1
  fi
  ;;
 esac
 ;;
esac

?X: In silent mode, the standard output is closed. Questions are asked by
?X: outputing on file descriptor #4, which is the original stdout descriptor.
?X: This filters out all the "junk", since all the needed information is written
?X: on #4. Note that ksh will not let us redirect output if the file descriptor
?X: has not be defined yet, unlike sh, hence the following line...--RAM.
exec 4>&1
case "$silent" in
true)
```

```
 exec 1>/dev/null;;
esac

: run the defines and the undefines, if any, but leave the file out there...
touch optdef.sh
. ./optdef.sh
: create the posthint manipulation script and leave the file out there...
?X: this file will be perused by Oldconfig.U
touch posthint.sh
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Options.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libc.U,v $
?RCS: Revision 3.0.1.10  1997/02/28  15:56:48  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: added support for HPUX-10 nm output
?RCS:
?RCS: Revision 3.0.1.9  1995/07/25  14:11:56  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.8  1995/05/12  12:20:47  ram
?RCS: patch54: made sure only most recent version of shared lib is picked
?RCS: patch54: final "nm -p" check now uses xscan and xrun like everybody
?RCS: patch54: can now grok
 linux nm output with lead __IO (ADO)
?RCS: patch54: added support for linux ELF output, using 'W' for alias (ADO)
?RCS:
?RCS: Revision 3.0.1.7  1994/10/29  16:23:40  ram
?RCS: patch36: now looks for shared libraries before anything else (ADO)
?RCS: patch36: added new nm output format (ADO)
?RCS:
?RCS: Revision 3.0.1.6  1994/08/29  16:28:10  ram
?RCS: patch32: added I-type symbols for nm output parsing on Linux
?RCS:
?RCS: Revision 3.0.1.5  1994/06/20  07:03:24  ram
```

```
?RCS: patch30: checks are now presented by succession of if/elif
?RCS: patch30: uniformized checks for shared objects with new so symbol
?RCS:
?RCS: Revision 3.0.1.4  1994/05/06  15:06:33  ram
?RCS: patch23: added shared library knowledge (ADO and WED)
?RCS:
?RCS: Revision 3.0.1.3  1994/01/24  14:12:17  ram
?RCS: patch16: can now export nm_extract as an internal-use only variable
?RCS:
?RCS: Revision 3.0.1.2  1993/09/13  16:09:03  ram
?RCS: patch10: added special handling for Apollo systems (WAD)
?RCS:
?RCS: Revision 3.0.1.1
  1993/08/27  14:40:03  ram
?RCS: patch7: added entry for /usr/shlib/libc.so (OSF/1 machines)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libc libnames +nm_extract: echo n c rm test grep Getfile Myread \
 Oldconfig Loc sed libs incpath libpth ar runnm nm nm_opt nm_so_opt \
 contains xlibpth so osname trnl tr sort uniq _o _a
?MAKE: -pick add $@ %<
?S:libc:
?S: This variable contains the location of the C library.
?S:.
?S:libnames:
?S: The constructed list of library names.  Normally empty, but hint files
?S: may set this for later perusal by Configure.
?S:.
?S:nm_extract:
?S: This variable holds the name of the extraction command used to process
?S: the output of nm and yield the list of defined symbols. It is used
?S: internally by Configure.
?S:.
?T:thislib try libnames xxx xscan xrun thisname com tans file
?F:!libnames !libc.tmp !tmp.imp
?LINT:change nm_opt runnm
?INIT:libnames=''
: Figure out where the libc is located
case
 "$runnm" in
true)
?X: indentation is wrong on purpose--RAM
: get list of predefined functions in a handy place
echo " "
case "$libc" in
'') libc=unknown
```

```
 case "$libs" in
 *-lc_s*) libc=`./loc libc_s$_a $libc $libpth`
 esac
 ;;
esac
case "$libs" in
") ;;
*)  for thislib in $libs; do
 case "$thislib" in
 -lc|-lc_s)
  : Handle C library specially below.
  ;;
 -l*)
  thislib=`echo $thislib | $sed -e 's/^-l//'`
  if try=`./loc lib$thislib.$so.'*' X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib.$so X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib$_a X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc $thislib$_a X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc $thislib X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc Slib$thislib$_a X $xlibpth`; $test -f "$try"; then
   :
  else
   try=''
  fi
  libnames="$libnames $try"
  ;;
 *) libnames="$libnames $thislib"
 ;;
 esac
 done
 ;;
esac
?X:
?X: Some systems (e.g. DG/UX) use "environmental" links, which make the test
?X: -f fail. Ditto for symbolic links. So in order to reliably check the
?X: existence of a file, we use test -r. It will still fail with DG/UX links
?X: though, but at least it will detect symbolic links. At some strategic
?X: points, we make use of (test -h), using a sub-shell in case builtin test
?X: does not implement the -h check for symbolic links. This makes it
?X: possible to preset libc in a hint file for instance and have it show up
?X: as-is in the question.
```

```
?X:
xxx=normal
case "$libc" in
unknown)
?X:
?X: The sed below transforms .so.9 .so.12 into something like .so.0009 .so.0012,
?X: then sorts on it to allow keeping .so.12 instead of .so.9 as the latest
?X: up-to-date library. The initial filename (before sed munging, saved in hold
?X: space via 'h') is appended via 'G' before sorting, then the leading munged
?X: part is removed after sorting. Nice efficient work
 from Tye McQueen.
?X: The initial blurfl is here to prevent the trailing pipe from producing an
?X: empty string, causing Configure to output all its set variables!
?X:
 set /lib/libc.$so
 for xxx in $libpth; do
  $test -r $1 || set $xxx/libc.$so
  : The messy sed command sorts on library version numbers.
  $test -r $1 || \
   set `echo blurfl; echo $xxx/libc.$so.[0-9]* | \
   tr ' ' $trnl | egrep -v '\.[A-Za-z]*$' | $sed -e '
    h
    s/[0-9][0-9]*/0000&/g
    s/0*\([0-9][0-9][0-9][0-9][0-9]\)/\1/g
    G
    s/\n/ /' | \
    $sort | $sed -e 's/^.* //'`
  eval set \$$#
 done
 $test -r $1 || set /usr/ccs/lib/libc.$so
 $test -r $1 || set /lib/libsys_s$_a
 ;;
*)
?X: ensure the test below for the (shared) C library will fail
 set blurfl
 ;;
esac
if $test -r "$1"; then
 echo "Your (shared) C library seems to be in $1."
 libc="$1"
elif $test -r /lib/libc && $test -r /lib/clib; then
?X:
?X: Apollo has its C library in /lib/clib AND /lib/libc
?X: not to mention its math library in /lib/syslib...
?X:
 echo
 "Your C library seems to be in both /lib/clib and /lib/libc."
 xxx=apollo
```

```
 libc='/lib/clib /lib/libc'
 if $test -r /lib/syslib; then
  echo "(Your math library is in /lib/syslib.)"
?X: Put syslib in libc -- not quite right, but won't hurt
  libc="$libc /lib/syslib"
 fi
elif $test -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
 echo "Your C library seems to be in $libc, as you said before."
?X: For mips, and...
elif $test -r $incpath/usr/lib/libc$_a; then
 libc=$incpath/usr/lib/libc$_a;
 echo "Your C library seems to be in $libc.  That's fine."
elif $test -r /lib/libc$_a; then
 libc=/lib/libc$_a;
 echo "Your C library seems to be in $libc.  You're normal."
else
 if tans=`./loc libc$_a blurfl/dyick $libpth`; $test -r "$tans"; then
  :
 elif tans=`./loc libc blurfl/dyick $libpth`; $test -r "$tans"; then
  libnames="$libnames "`./loc clib blurfl/dyick $libpth`
 elif tans=`./loc clib blurfl/dyick $libpth`; $test -r "$tans"; then
  :
 elif tans=`./loc Slibc$_a blurfl/dyick
 $xlibpth`; $test -r "$tans"; then
  :
 elif tans=`./loc Mlibc$_a blurfl/dyick $xlibpth`; $test -r "$tans"; then
  :
 else
  tans=`./loc Llibc$_a blurfl/dyick $xlibpth`
 fi
 if $test -r "$tans"; then
  echo "Your C library seems to be in $tans, of all places."
  libc=$tans
 else
  libc='blurfl'
 fi
fi
if $test $xxx = apollo -o -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
 dflt="$libc"
 cat <<EOM

If the guess above is wrong (which it might be if you're using a strange
compiler, or your machine supports multiple models), you can override it here.

EOM
else
 dflt=''
 echo $libpth | $tr ' ' $trnl | $sort | $uniq > libpath
```

```
 cat >&4 <<EOM
I can't seem to find your C library.  I've looked in the following places:

EOM
 $sed 's/^/ /' libpath
 cat <<EOM

None of these seems to contain your C library. I need to get its name...

EOM
fi
fn=f
rp='Where is your C library?'
. ./getfile
libc="$ans"

echo " "
echo $libc $libnames | $tr ' ' $trnl | $sort | $uniq > libnames
set X `cat libnames`
shift
xxx=files
case
 $# in 1) xxx=file; esac
echo "Extracting names from the following $xxx for later perusal:" >&4
echo " "
$sed 's/^/ /' libnames >&4
echo " "
$echo $n "This may take a while...$c" >&4

?X:
?X: Linux may need the special Dynamic option to nm for shared libraries.
?X: In general, this is stored in the nm_so_opt variable.
?X: Unfortunately, that option may be fatal on non-shared libraries.
?X:
for file in $*; do
 case $file in
 *$so*) $nm $nm_so_opt $nm_opt $file 2>/dev/null;;
 *) $nm $nm_opt $file 2>/dev/null;;
 esac
done >libc.tmp

$echo $n ".$c"
?X:
?X: To accelerate processing, we look at the correct 'sed' command
?X: by using a small subset of libc.tmp, i.e. fprintf function.
?X: When we know which sed command to use, do the name extraction
?X:
$grep fprintf libc.tmp > libc.ptf
```

```
?X:
?X: In order to enhance readability and save some space, we define
?X: some variables that will be "eval"ed.
?X:
xscan='eval "<libc.ptf $com >libc.list"; $echo $n ".$c" >&4'
xrun='eval
 "<libc.tmp $com >libc.list"; echo "done." >&4'
?X: BSD-like output, I and W types added for Linux
?X: Some versions of Linux include a leading __IO in the symbol name.
?X: HPUX10 reportedly has trailing spaces, though I'm surprised it has
?X: BSD-like output.  (AD).
xxx='[ADTSIW]'
if com="$sed -n -e 's/__IO//' -e 's/^.* $xxx  *_[_.]*//p' -e 's/^.* $xxx  *//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: SYSV-like output
elif com="$sed -n -e 's/^__*//' -e 's/^\([a-zA-Z_0-9$]*\).*xtern.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e '/|UNDEF/d' -e '/FUNC..GL/s/^.*|__*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.* D __*//p' -e 's/^.* D //p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^_//' -e 's/^\([a-zA-Z_0-9]*\).*xtern.*text.*/\1/p'";\
 eval
 $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$grep '|' | $sed -n -e '/|COMMON/d' -e '/|DATA/d' \
    -e '/ file/d' -e 's/^\([^  ]*\).*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|//p' -e 's/^.*|FUNC |WEAK .*|//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: mips nm output (sysV)
```

```
elif com="$sed -n -e 's/^__//' -e '/|Undef/d' -e '/|Proc/s/ .*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|Proc .*|Text *| *//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e '/Def. Text/s/.* \([^ ]*\)\$/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null
 2>&1; then
  eval $xrun
?X: OS/2 nm output
elif com="$sed -n -e 's/^[-0-9a-f ]*_\(.*\)=.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/.*\.text n\ \ \ \.//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: AIX nm output
elif com="sed -n -e 's/^__.*//' -e 's/[       ]*D[    ]*[0-9]*.*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
else
 $nm -p $* 2>/dev/null >libc.tmp
 $grep fprintf libc.tmp > libc.ptf
 if com="$sed -n -e 's/^.* [ADTSIW]  *_[_.]*//p' -e 's/^.* [ADTSIW] //p'";\
  eval $xscan; $contains '^fprintf$' libc.list >/dev/null 2>&1
 then
  nm_opt='-p'
  eval $xrun
 else
  echo " "
  echo "$nm didn't seem to work right. Trying $ar instead..." >&4
  com="
  if $ar t $libc > libc.tmp && \
   $contains '^fprintf$' libc.tmp >/dev/null 2>&1
  then
   for thisname in $libnames $libc; do
    $ar t $thisname >>libc.tmp
   done
   $sed
 -e "s/\\$_o\$//" < libc.tmp > libc.list
   echo "Ok." >&4
```

```
  elif test "X$osname" = "Xos2" && $ar tv $libc > libc.tmp; then
?X: Repeat libc to extract forwarders to DLL entries too
   for thisname in $libnames $libc; do
    $ar tv $thisname >>libc.tmp
?X: Revision 50 of EMX has bug in ar: it will not extract forwarders
?X: to DLL entries.  Use emximp which will extract exactly them.
    emximp -o tmp.imp $thisname \
        2>/dev/null && \
        $sed -e 's/^\([_a-zA-Z0-9]*\) .*$/\1/p' \
        < tmp.imp >>libc.tmp
    $rm -f tmp.imp
   done
   $sed -e "s/\\$_o\$//" -e 's/^ \+//' < libc.tmp > libc.list
   echo "Ok." >&4
  else
   echo "$ar didn't seem to work right." >&4
   echo "Maybe this is a Cray...trying bld instead..." >&4
   if
    bld t $libc | \
     $sed -e 's/.*\///' -e "s/\\$_o:.*\$//" > libc.list &&
    $test -s libc.list
   then
    for thisname in $libnames; do
     bld t $libnames | \
     $sed -e 's/.*\///' -e "s/\\$_o:.*\$//" >>libc.list
     $ar t $thisname >>libc.tmp
    done
    echo
 "Ok." >&4
   else
    echo "That didn't work either." >&4
    echo "No problem, I'll be compiling test programs then..." >&4
    runnm=false
   fi
  fi
 fi
fi
nm_extract="$com"
if $test -f /lib/syscalls.exp; then
 echo " "
 echo "Also extracting names from /lib/syscalls.exp for good ole AIX..." >&4
 $sed -n 's/^\([^  ]*\)[  ]*syscall[0-9]*[  ]*$/\1/p' \
  /lib/syscalls.exp >>libc.list
fi
?X: remember, indentation is wrong on purpose--RAM
;;
esac
$rm -f libnames libpath
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/libc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libc.U,v $
?RCS: Revision 3.0.1.10  1997/02/28  15:56:48  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: added support for HPUX-10 nm output
?RCS:
?RCS: Revision 3.0.1.9  1995/07/25  14:11:56  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.8  1995/05/12  12:20:47  ram
?RCS: patch54: made sure only most recent version of shared lib is picked
?RCS: patch54: final "nm -p" check now uses xscan and xrun
 like everybody
?RCS: patch54: can now grok Linux nm output with lead __IO (ADO)
?RCS: patch54: added support for Linux ELF output, using 'W' for alias (ADO)
?RCS:
?RCS: Revision 3.0.1.7  1994/10/29  16:23:40  ram
?RCS: patch36: now looks for shared libraries before anything else (ADO)
?RCS: patch36: added new nm output format (ADO)
?RCS:
?RCS: Revision 3.0.1.6  1994/08/29  16:28:10  ram
?RCS: patch32: added I-type symbols for nm output parsing on Linux
?RCS:
?RCS: Revision 3.0.1.5  1994/06/20  07:03:24  ram
?RCS: patch30: checks are now presented by succession of if/elif
?RCS: patch30: uniformized checks for shared objects with new so symbol
?RCS:
?RCS: Revision 3.0.1.4  1994/05/06  15:06:33  ram
?RCS: patch23: added shared library knowledge (ADO and WED)
?RCS:
?RCS: Revision 3.0.1.3  1994/01/24  14:12:17  ram
?RCS: patch16: can now export nm_extract as an internal-use only variable
?RCS:
```

```
?RCS: Revision 3.0.1.2  1993/09/13  16:09:03  ram
?RCS: patch10: added special handling for Apollo
 systems (WAD)
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:40:03  ram
?RCS: patch7: added entry for /usr/shlib/libc.so (OSF/1 machines)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libc +nm_extract: echo n c rm test grep Getfile Myread Oldconfig Loc \
 sed libs incpath libpth ar runnm nm nm_opt nm_so_opt contains xlibpth \
 so _a _o osname trnl tr sort uniq sysroot
?MAKE: -pick add $@ %<
?S:libc:
?S: This variable contains the location of the C library.
?S:.
?S:nm_extract:
?S: This variable holds the name of the extraction command used to process
?S: the output of nm and yield the list of defined symbols. It is used
?S: internally by Configure.
?S:.
?T:thislib try libnames xxx xscan xrun thisname com tans file
?F:!libnames !libc.tmp !tmp.imp
?LINT:extern PASE
?LINT:extern libnames
?LINT:change nm_opt
?INIT:libnames=''
: Figure out where the libc is located
case "$runnm" in
true)
?X: indentation is wrong on purpose--RAM
:
 get list of predefined functions in a handy place
echo " "
case "$libc" in
'') libc=unknown
 case "$libs" in
 *-lc_s*) libc=`./loc libc_s$_a $libc $libpth`
 esac
 ;;
esac
case "$libs" in
'') ;;
*)  for thislib in $libs; do
 case "$thislib" in
 -lc|-lc_s)
  : Handle C library specially below.
```

```
  ;;
 -l*)
  thislib=`echo $thislib | $sed -e 's/^-l//'`
  if try=`./loc lib$thislib.$so.'*' X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib.$so X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib$_a X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc $thislib$_a X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc $thislib X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc Slib$thislib$_a X $xlibpth`; $test -f "$try"; then
   :
  else
   try=''
  fi
  libnames="$libnames $try"
  ;;
 *) libnames="$libnames $thislib" ;;
 esac
 done
 ;;
esac
?X:
?X: Some systems (e.g. DG/UX) use
 "environmental" links, which make the test
?X: -f fail. Ditto for symbolic links. So in order to reliably check the
?X: existence of a file, we use test -r. It will still fail with DG/UX links
?X: though, but at least it will detect symbolic links. At some strategic
?X: points, we make use of (test -h), using a sub-shell in case builtin test
?X: does not implement the -h check for symbolic links. This makes it
?X: possible to preset libc in a hint file for instance and have it show up
?X: as-is in the question.
?X:
xxx=normal
case "$libc" in
unknown)
?X:
?X: The sed below transforms .so.9 .so.12 into something like .so.0009 .so.0012,
?X: then sorts on it to allow keeping .so.12 instead of .so.9 as the latest
?X: up-to-date library. The initial filename (before sed munging, saved in hold
?X: space via 'h') is appended via 'G' before sorting, then the leading munged
?X: part is removed after sorting. Nice efficient work from Tye McQueen.
?X: The initial blurfl is here to prevent the trailing
```

```
 pipe from producing an
?X: empty string, causing Configure to output all its set variables!
?X:
 set /lib/libc.$so
 for xxx in $libpth; do
  $test -r $1 || set $xxx/libc.$so
  : The messy sed command sorts on library version numbers.
  $test -r $1 || \
   set `echo blurfl; echo $xxx/libc.$so.[0-9]* | \
   tr ' ' $trnl | egrep -v '\.[A-Za-z]*$' | $sed -e '
    h
    s/[0-9][0-9]*/0000&/g
    s/0*\([0-9][0-9][0-9][0-9][0-9]\)/\1/g
    G
    s/\n/ /' | \
    $sort | $sed -e 's/^.* //'`
  eval set \$$#
 done
 $test -r $1 || set $sysroot/usr/ccs/lib/libc.$so
 $test -r $1 || set $sysroot/lib/libsys_s$_a
 ;;
*)
?X: ensure the test below for the (shared) C library will fail
 set blurfl
 ;;
esac
if $test -r "$1"; then
 echo "Your (shared) C library seems to be in $1."
 libc="$1"
elif $test -r /lib/libc && $test -r /lib/clib; then
?X:
?X: Apollo has its C library in /lib/clib AND /lib/libc
?X: not to mention its math library in /lib/syslib...
?X:
 echo "Your C library seems to be in both /lib/clib
 and /lib/libc."
 xxx=apollo
 libc='/lib/clib /lib/libc'
 if $test -r /lib/syslib; then
  echo "(Your math library is in /lib/syslib.)"
?X: Put syslib in libc -- not quite right, but won't hurt
  libc="$libc /lib/syslib"
 fi
elif $test -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
 echo "Your C library seems to be in $libc, as you said before."
?X: For mips, and...
elif $test -r $incpath/usr/lib/libc$_a; then
 libc=$incpath/usr/lib/libc$_a;
```

```
 echo "Your C library seems to be in $libc.  That's fine."
elif $test -r /lib/libc$_a; then
 libc=/lib/libc$_a;
 echo "Your C library seems to be in $libc.  You're normal."
else
 if tans=`./loc libc$_a blurfl/dyick $libpth`; $test -r "$tans"; then
  :
 elif tans=`./loc libc blurfl/dyick $libpth`; $test -r "$tans"; then
  libnames="$libnames "`./loc clib blurfl/dyick $libpth`
 elif tans=`./loc clib blurfl/dyick $libpth`; $test -r "$tans"; then
  :
 elif tans=`./loc Slibc$_a blurfl/dyick $xlibpth`; $test -r "$tans"; then
  :
 elif tans=`./loc
 Mlibc$_a blurfl/dyick $xlibpth`; $test -r "$tans"; then
  :
 else
  tans=`./loc Llibc$_a blurfl/dyick $xlibpth`
 fi
 if $test -r "$tans"; then
  echo "Your C library seems to be in $tans, of all places."
  libc=$tans
 else
  libc='blurfl'
 fi
fi
if $test $xxx = apollo -o -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
 dflt="$libc"
 cat <<EOM

If the guess above is wrong (which it might be if you're using a strange
compiler, or your machine supports multiple models), you can override it here.

EOM
else
 dflt="
 echo $libpth | $tr ' ' $trnl | $sort | $uniq > libpath
 cat >&4 <<EOM
I can't seem to find your C library.  I've looked in the following places:

EOM
 $sed 's/^/ /' libpath
 cat <<EOM

None of these seems to contain your C library. I need to get its name...

EOM
fi
```

```
fn=f
rp='Where is your C library?'
. ./getfile
libc="$ans"

echo " "
echo $libc $libnames | $tr ' ' $trnl | $sort | $uniq > libnames
set X `cat libnames`
shift
xxx=files
case $# in 1) xxx=file; esac
echo
 "Extracting names from the following $xxx for later perusal:" >&4
echo " "
$sed 's/^/ /' libnames >&4
echo " "
$echo $n "This may take a while...$c" >&4

?X:
?X: Linux may need the special Dynamic option to nm for shared libraries.
?X: In general, this is stored in the nm_so_opt variable.
?X: Unfortunately, that option may be fatal on non-shared libraries.
?X:
for file in $*; do
 case $file in
 *$so*) $nm $nm_so_opt $nm_opt $file 2>/dev/null;;
 *) $nm $nm_opt $file 2>/dev/null;;
 esac
done >libc.tmp

$echo $n ".$c"
?X:
?X: To accelerate processing, we look at the correct 'sed' command
?X: by using a small subset of libc.tmp, i.e. fprintf function.
?X: When we know which sed command to use, do the name extraction
?X:
$grep fprintf libc.tmp > libc.ptf
?X:
?X: In order to enhance readability and save some space, we define
?X: some variables that will be "eval"ed.
?X:
xscan='eval "<libc.ptf $com >libc.list"; $echo $n ".$c" >&4'
xrun='eval "<libc.tmp $com >libc.list"; echo "done." >&4'
?X:
 BSD-like output, I and W types added for Linux
?X: Some versions of Linux include a leading __IO in the symbol name.
?X: HP-UX 10 reportedly has trailing spaces, though I'm surprised it has
?X: BSD-like output.  (AD).
```

```
?X: GNU extension: i is "indirect function"
xxx='[ADTSIWi]'
if com="$sed -n -e 's/__IO//' -e 's/^.* $xxx  *//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: SYSV-like output
elif com="$sed -n -e 's/^__*//' -e 's/^\([a-zA-Z_0-9$]*\).*xtern.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e '/|UNDEF/d' -e '/FUNC..GL/s/^.*|__*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.* D __*//p' -e 's/^.* D //p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^_//' -e 's/^\([a-zA-Z_0-9]*\).*xtern.*text.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$'
 libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$grep '|' | $sed -n -e '/|COMMON/d' -e '/|DATA/d' \
    -e '/ file/d' -e 's/^\([^  ]*\).*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|//p' -e 's/^.*|FUNC |WEAK .*|//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: mips nm output (sysV)
elif com="$sed -n -e 's/^__//' -e '/|Undef/d' -e '/|Proc/s/ .*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|Proc .*|Text *| *//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e '/Def. Text/s/.* \([^ ]*\)\$/\1/p'";\
 eval $xscan;\
```

```
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: OS/2
 nm output
elif com="$sed -n -e 's/^[-0-9a-f ]*_\(.*\)=.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/.*\.text n\ \ \ \.//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: AIX nm output
elif com="sed -n -e 's/^__.*//' -e 's/[       ]*D[    ]*[0-9]*.*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
else
 $nm -p $* 2>/dev/null >libc.tmp
 $grep fprintf libc.tmp > libc.ptf
 if com="$sed -n -e 's/^.* [ADTSIW]  *_[_.]*//p' -e 's/^.* [ADTSIW] //p'";\
  eval $xscan; $contains '^fprintf$' libc.list >/dev/null 2>&1
 then
  nm_opt='-p'
  eval $xrun
 else
  echo " "
  echo "$nm didn't seem to work right. Trying $ar instead..." >&4
  com="
  if $ar t $libc > libc.tmp && \
   $contains '^fprintf$' libc.tmp >/dev/null 2>&1
  then
   for thisname in $libnames $libc; do
    $ar t $thisname >>libc.tmp
   done
   $sed -e "s/\\$_o\$//" < libc.tmp > libc.list
   echo
 "Ok." >&4
  elif test "X$osname" = "Xos2" && $ar tv $libc > libc.tmp; then
?X: Repeat libc to extract forwarders to DLL entries too
   for thisname in $libnames $libc; do
    $ar tv $thisname >>libc.tmp
?X: Revision 50 of EMX has bug in ar: it will not extract forwarders
?X: to DLL entries.  Use emximp which will extract exactly them.
    emximp -o tmp.imp $thisname \
        2>/dev/null && \
        $sed -e 's/^\([_a-zA-Z0-9]*\) .*$/\1/p' \
        < tmp.imp >>libc.tmp
```

```
    $rm -f tmp.imp
   done
   $sed -e "s/\\$_o\$//" -e 's/^ \+//' < libc.tmp > libc.list
   echo "Ok." >&4
  else
   echo "$ar didn't seem to work right." >&4
   echo "Maybe this is a Cray...trying bld instead..." >&4
   if  bld t $libc | \
    $sed -e 's/.*\///' -e "s/\\$_o:.*\$//" > libc.list &&
    $test -s libc.list
   then
    for thisname in $libnames; do
     bld t $libnames | \
     $sed -e 's/.*\///' -e "s/\\$_o:.*\$//" >>libc.list
     $ar t $thisname >>libc.tmp
    done
    echo "Ok." >&4
   else
    echo
 "That didn't work either.  Giving up." >&4
    exit 1
   fi
  fi
 fi
fi
nm_extract="$com"
case "$PASE" in
define)
   echo " "
   echo "Since you are compiling for PASE, extracting more symbols from libc.a ..."">&4
   dump -Tv /lib/libc.a | awk '$7 == "/unix" {print $5 " " $8}' | grep "^SV" | awk '{print $2}' >> libc.list
   ;;
*)  if $test -f /lib/syscalls.exp; then
 echo " "
 echo "Also extracting names from /lib/syscalls.exp for good ole AIX..." >&4
 $sed -n 's/^\([^  ]*\)[  ]*syscall[0-9]*[  ]*$/\1/p' \
  /lib/syscalls.exp >>libc.list
   fi
   ;;
esac
;;
esac
$rm -f libnames libpath
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/libc.U

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```
?RCS: $Id: d_casti32.U,v 3.0.1.3 1995/05/12 12:10:45 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_casti32.U,v $
?RCS: Revision 3.0.1.3  1995/05/12  12:10:45  ram
?RCS: patch54: made sure cc and ccflags are conditional dependencies
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:09:37  ram
?RCS: patch36: declare signal handler correctly (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:06  ram
?RCS: patch32: created by ADO
?RCS:
?X:
?X: Can the compiler cast large floats to
 32-bit integers?
?X:
?MAKE:d_casti32: cat Compile rm_try intsize Setvar test signal_t run i_stdlib
?MAKE: -pick add $@ %<
?S:d_casti32:
?S: This variable conditionally defines CASTI32, which indicates
?S: whether the C compiler can cast large floats to 32-bit ints.
?S:.
?C:CASTI32:
?C: This symbol is defined if the C compiler can cast negative
?C: or large floating point numbers to 32-bit ints.
?C:.
?H:#$d_casti32 CASTI32  /**/
?H:.
?T:xxx yyy
?F:!try
?LINT:set d_casti32
: check for ability to cast large floats to 32-bit ints.
echo " "
echo 'Checking whether your C compiler can cast large floats to int32.' >&4
if $test "$intsize" -ge 4; then
 xxx=int
```

```
else
 xxx=long
fi
$cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <sys/types.h>
#include <signal.h>
$signal_t blech(int s) { exit(3); }
int main()
{
 $xxx i32;
 double f, g;
 int result = 0;
 char str[16];
 signal(SIGFPE, blech);

 /* Don't let compiler optimize the test away.
  Store the number
    in a writable string for gcc to pass to sscanf under HP-UX.
 */
 sprintf(str, "2147483647");
 sscanf(str, "%lf", &f); /* f = (double) 0x7fffffff; */
 g = 10 * f;
 i32  = ($xxx) g;

 /* x86 processors will probably give 0x8000 0000, which is a
    sign change.  We don't want that.  We want to mimic SPARC
    behavior here, which is to preserve the sign and give
    back 0x7fff ffff.
 */
 if (i32 != ($xxx) f)
  result |= 1;
 exit(result);
}
EOCP
set try
if eval $compile_ok; then
 $run ./try 2>/dev/null
 yyy=$?
else
 echo "(I can't seem to compile the test program--assuming it can't)"
 yyy=1
fi
case "$yyy" in
```

```
0) val="$define"
 echo "Yup, it can."
 ;;
*) val="$undef"
 echo "Nope, it can't."
 ;;
esac
set d_casti32
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_casti32.U
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```
?RCS: $Id: d_endprotoent_r.U,v 0RCS:
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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_endprotoent_r endprotoent_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_endprotoent_r:
?S: This variable conditionally defines the HAS_ENDPROTOENT_R symbol,
?S: which indicates to the C program that the endprotoent_r()
?S: routine is available.
?S:.
?S:endprotoent_r_proto:
?S: This variable encodes the prototype of endprotoent_r.
?S: It is zero if d_endprotoent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endprotoent_r
?S: is defined.
?S:.
?C:HAS_ENDPROTOENT_R:
?C: This symbol, if defined, indicates that the endprotoent_r
 routine
?C: is available to endprotoent re-entrantly.
?C:.
?C:ENDPROTOENT_R_PROTO:
?C: This symbol encodes the prototype of endprotoent_r.
?C: It is zero if d_endprotoent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endprotoent_r
?C: is defined.
```

```
?C:.
?H:#$d_endprotoent_r HAS_ENDPROTOENT_R /**/
?H:#define ENDPROTOENT_R_PROTO $endprotoent_r_proto /**/
?H:.
?T:try hdrs d_endprotoent_r_proto
: see if endprotoent_r exists
set endprotoent_r d_endprotoent_r
eval $inlibc
case "$d_endprotoent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_endprotoent_r_proto:$usethreads" in
 ":define") d_endprotoent_r_proto=define
  set d_endprotoent_r_proto endprotoent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_endprotoent_r_proto" in
 define)
 case "$endprotoent_r_proto" in
 "|0) try='int endprotoent_r(struct protoent_data*);'
 ./protochk "$extern_C $try" $hdrs && endprotoent_r_proto=I_D ;;
 esac
 case "$endprotoent_r_proto"
 in
 "|0) try='void endprotoent_r(struct protoent_data*);'
 ./protochk "$extern_C $try" $hdrs && endprotoent_r_proto=V_D ;;
 esac
 case "$endprotoent_r_proto" in
 "|0) d_endprotoent_r=undef
  endprotoent_r_proto=0
  echo "Disabling endprotoent_r, cannot determine prototype." >&4 ;;
 * ) case "$endprotoent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) endprotoent_r_proto="REENTRANT_PROTO_$endprotoent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "endprotoent_r has no prototype, not using it." >&4 ;;
  esac
  d_endprotoent_r=undef
  endprotoent_r_proto=0
  ;;
 esac
 ;;
*) endprotoent_r_proto=0
```

```
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_endprotoent_r.U
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```
?RCS: $Id: n.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: n.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:n c: contains
?MAKE: -pick add $@ %<
?S:n:
?S: This variable contains the -n flag if that is what causes the echo
?S: command to suppress newline.  Otherwise it is null.  Correct usage is
?S:     $echo $n "prompt for a question: $c".
?S:.
?S:c:
?S: This variable contains the \c string if that is what causes the echo
?S: command to suppress newline.
  Otherwise it is null.  Correct usage is
?S:     $echo $n "prompt for a question: $c".
?S:.
: first determine how to suppress newline on echo command
echo " "
echo "Checking echo to see how to suppress newlines..."
(echo "hi there\c" ; echo " ") >.echotmp
if $contains c .echotmp >/dev/null 2>&1 ; then
 echo "...using -n."
 n='-n'
 c=''
else
 cat <<'EOM'
...using \c
EOM
 n=''
```

```
 c='\c'
fi
echo $n "The star should be here-->$c"
echo '*'
rm -f .echotmp
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/n.U
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```
?RCS: $Id$
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_telldirproto: Hasproto i_systypes i_dirent
?MAKE: -pick add $@ %<
?S:d_telldirproto:
?S: This variable conditionally defines the HAS_TELLDIR_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the telldir() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_TELLDIR_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the telldir() function.  Otherwise, it is up
?C: to the program to supply one.  A good guess
 is
?C:  extern long telldir(DIR*);
?C:.
?H:#$d_telldirproto HAS_TELLDIR_PROTO /**/
?H:.
?LINT:set d_telldirproto
: see if prototype for telldir is available
echo " "
set d_telldirproto telldir $i_systypes sys/types.h $i_dirent dirent.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_telldirproto.U

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```
?RCS: $Id: d_getprotoent_r.U,v 0RCS:
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?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getprotoent_r getprotoent_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getprotoent_r:
?S: This variable conditionally defines the HAS_GETPROTOENT_R symbol,
?S: which indicates to the C program that the getprotoent_r()
?S: routine is available.
?S:.
?S:getprotoent_r_proto:
?S: This variable encodes the prototype of getprotoent_r.
?S: It is zero if d_getprotoent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getprotoent_r
?S: is defined.
?S:.
?C:HAS_GETPROTOENT_R:
?C: This symbol, if defined, indicates that the getprotoent_r
 routine
?C: is available to getprotoent re-entrantly.
?C:.
?C:GETPROTOENT_R_PROTO:
?C: This symbol encodes the prototype of getprotoent_r.
?C: It is zero if d_getprotoent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getprotoent_r
?C: is defined.
?C:.
?H:#$d_getprotoent_r HAS_GETPROTOENT_R /**/
?H:#define GETPROTOENT_R_PROTO $getprotoent_r_proto /**/
?H:.
?T:try hdrs d_getprotoent_r_proto
: see if getprotoent_r exists
set getprotoent_r d_getprotoent_r
eval $inlibc
case "$d_getprotoent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getprotoent_r_proto:$usethreads" in
 ":define") d_getprotoent_r_proto=define
  set d_getprotoent_r_proto getprotoent_r $hdrs
```

```
 eval $hasproto ;;
*) ;;
esac
case "$d_getprotoent_r_proto" in
define)
case "$getprotoent_r_proto" in
"|0) try='int getprotoent_r(struct protoent*, char*, size_t, struct protoent**);'
./protochk "$extern_C $try" $hdrs && getprotoent_r_proto=I_SBWR
;;
esac
case "$getprotoent_r_proto" in
"|0) try='int getprotoent_r(struct protoent*, char*, int);'
./protochk "$extern_C $try" $hdrs && getprotoent_r_proto=I_SBI ;;
esac
case "$getprotoent_r_proto" in
"|0) try='struct protoent* getprotoent_r(struct protoent*, char*, int);'
./protochk "$extern_C $try" $hdrs && getprotoent_r_proto=S_SBI ;;
esac
case "$getprotoent_r_proto" in
"|0) try='int getprotoent_r(struct protoent*, struct protoent_data*);'
./protochk "$extern_C $try" $hdrs && getprotoent_r_proto=I_SD ;;
esac
case "$getprotoent_r_proto" in
"|0) d_getprotoent_r=undef
 getprotoent_r_proto=0
 echo "Disabling getprotoent_r, cannot determine prototype." >&4 ;;
* ) case "$getprotoent_r_proto" in
 REENTRANT_PROTO*) ;;
 *) getprotoent_r_proto="REENTRANT_PROTO_$getprotoent_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "getprotoent_r has no prototype, not using it." >&4 ;;
 esac
 d_getprotoent_r=undef
 getprotoent_r_proto=0
 ;;
esac
;;
*) getprotoent_r_proto=0
 ;;
esac

Found
 in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
```

5.36.0/U/threads/d_getprotoent_r.U
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```
?RCS: $Id$
?RCS:
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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:uidformat: uidsize uidsign ivsize uvsize longsize intsize shortsize \
 ivdformat uvuformat test echo
?MAKE: -pick add $@ %<
?S:uidformat:
?S: This variable contains the format string used for printing a Uid_t.
?S:.
?C:Uid_t_f:
?C: This symbol defines the format string used for printing a Uid_t.
?C:.
?H:#define Uid_t_f  $uidformat  /**/
?H:.
: Check format string for UID
echo " "
$echo "Checking the format string to be used for uids..." >&4

case "$uidsign" in
-1) if $test X"$uidsize" = X"$ivsize"; then
  uidformat="$ivdformat"
 else
  if $test X"$uidsize" = X"$longsize"; then
   uidformat="'ld'"
  else
   if $test X"$uidsize" = X"$intsize"; then
    uidformat="'d'"
   else
    if $test X"$uidsize"
 = X"$shortsize"; then
     uidformat="'hd'"
    fi
   fi
  fi
 fi
 ;;
*) if $test X"$uidsize" = X"$uvsize"; then
  uidformat="$uvuformat"
 else
  if $test X"$uidsize" = X"$longsize"; then
   uidformat="'lu'"
```

```
  else
   if $test X"$uidsize" = X"$intsize"; then
    uidformat="'u'"
   else
    if $test X"$uidsize" = X"$shortsize"; then
     uidformat="'hu'"
    fi
   fi
  fi
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/uidf.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rename.C,v 3.0.1.1 1994/01/24 13:58:42 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* $Log: rename.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:42  ram
* patch16: created
*
*/
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/lib/C/fake/rename.C
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: afs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: afs.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:23:06  ram
?RCS: patch61: can now explicitly tell Configure whether AFS is running
?RCS:
?RCS: Revision 3.0.1.1  1993/08/24  12:24:43  ram
?RCS: patch3: created
?RCS:
?MAKE:afs afsroot: test
?MAKE: -pick add $@ %<
?S:afs:
?S: This variable is set to 'true' if AFS (Andrew File System) is used
?S: on the system, 'false' otherwise.  It is possible to override this
?S: with a hint value or command line option,
 but you'd better know
?S: what you are doing.
?S:.
?S:afsroot:
?S: This variable is by default set to '/afs'. In the unlikely case
?S: this is not the correct root, it is possible to override this with
?S: a hint value or command line option.  This will be used in subsequent
?S: tests for AFSness in the configure and test process.
?S:.
: allow them to override the AFS root
case "$afsroot" in
") afsroot=/afs ;;
*) afsroot=$afsroot ;;
esac

: is AFS running?
echo " "
case "$afs" in
$define|true) afs=true ;;
$undef|false) afs=false ;;
*) if $test -d $afsroot; then
  afs=true
 else
  afs=false
 fi
 ;;
esac
if $afs; then
 echo "AFS may be running... I'll be extra cautious then..." >&4
else
 echo "AFS does not seem to be running..." >&4
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/afs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:gidformat: gidsize gidsign ivsize uvsize longsize intsize shortsize \
 ivdformat uvuformat test echo
?MAKE: -pick add $@ %<
?S:gidformat:
?S: This variable contains the format string used for printing a Gid_t.
?S:.
?C:Gid_t_f:
?C: This symbol defines the format string used for printing a Gid_t.
?C:.
?H:#define Gid_t_f  $gidformat  /**/
?H:.
: Check format string for GID

echo " "
$echo "Checking the format string to be used for gids..." >&4

case "$gidsign" in
-1) if $test X"$gidsize" = X"$ivsize"; then
  gidformat="$ivdformat"
 else
  if $test X"$gidsize" = X"$longsize"; then
   gidformat="'ld'"
  else
   if $test X"$gidsize" = X"$intsize"; then
    gidformat="'d'"
   else
    if $test X"$gidsize"
 = X"$shortsize"; then
     gidformat="'hd'"
    fi
   fi
  fi
 fi
 ;;
*) if $test X"$gidsize" = X"$uvsize"; then
  gidformat="$uvuformat"
```

```
 else
  if $test X"$gidsize" = X"$longsize"; then
   gidformat="'lu'"
  else
   if $test X"$gidsize" = X"$intsize"; then
    gidformat="'u'"
   else
    if $test X"$gidsize" = X"$shortsize"; then
     gidformat="'hu'"
    fi
   fi
  fi
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/gidf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysndir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysndir.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:33  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_sysndir: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysndir:
?S: This variable conditionally defines the I_SYS_NDIR symbol, and indicates
?S: whether a C program should include <sys/ndir.h>.
?S:.
?C:I_SYS_NDIR (I_SYSNDIR):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/ndir.h>.
?C:.
?H:#$i_sysndir
 I_SYS_NDIR /**/
?H:.
```

```
?LINT:set i_sysndir
: see if this is an sysndir system
set sys/ndir.h i_sysndir
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sysndir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: prototype.U,v $
?RCS: Revision 3.0.1.3  1994/05/06  15:11:49  ram
?RCS: patch23: ensure cc flags used when looking for prototype support
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:15:36  ram
?RCS: patch16: prototype handling macros now appear only when needed
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:03:12  ram
?RCS: patch6: defines were referring to non-existent VOID symbol
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:36  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:prototype:
 Myread Oldconfig cat +cc +ccflags rm Setvar
?MAKE: -pick add $@ %<
?S:prototype:
?S: This variable holds the eventual value of CAN_PROTOTYPE, which
?S: indicates the C compiler can handle funciton prototypes.
?S:.
?C:CAN_PROTOTYPE ~ %<:
?C: If defined, this macro indicates that the C compiler can handle
?C: function prototypes.
?C:.
?C:DOTS:
?C: This macro is used to specify the ... in function prototypes which
?C: have arbitrary additional arguments.
?C:.
```

```
?C:NXT_ARG:
?C: This macro is used to separate arguments in the declared argument list.
?C:.
?C:P_FUNC:
?C: This macro is used to declare "private" (static) functions.
?C: It takes three arguments: the function type and name, a parenthesized
?C: traditional (comma separated) argument list, and the declared argument
?C: list (in which arguments are separated with NXT_ARG, and additional
?C: arbitrary arguments are specified with DOTS).  For example:
?C:
?C:  P_FUNC(int foo, (bar, baz), int bar NXT_ARG char *baz[])
?C:.
?C:P_FUNC_VOID:
?C: This
 macro is used to declare "private" (static) functions that have
?C: no arguments.  The macro takes one argument: the function type and name.
?C: For example:
?C:
?C:  P_FUNC_VOID(int subr)
?C:.
?C:V_FUNC:
?C: This macro is used to declare "public" (non-static) functions.
?C: It takes three arguments: the function type and name, a parenthesized
?C: traditional (comma separated) argument list, and the declared argument
?C: list (in which arguments are separated with NXT_ARG, and additional
?C: arbitrary arguments are specified with DOTS).  For example:
?C:
?C:  V_FUNC(int main, (argc, argv), int argc NXT_ARG char *argv[])
?C:.
?C:V_FUNC_VOID:
?C: This macro is used to declare "public" (non-static) functions that have
?C: no arguments.  The macro takes one argument: the function type and name.
?C: For example:
?C:
?C:  V_FUNC_VOID(int fork)
?C:.
?C:_ (P):
?C: This macro is used to declare function parameters for folks who want
?C: to make declarations with prototypes using a
 different style than
?C: the above macros.  Use double parentheses.  For example:
?C:
?C:  int main _((int argc, char *argv[]));
?C:.
?H:?%<:#$prototype CAN_PROTOTYPE /**/
?H:?%<:#ifdef CAN_PROTOTYPE
?H:?NXT_ARG:#define NXT_ARG ,
?H:?DOTS:#define DOTS , ...
```

```
?H:?V_FUNC:#define V_FUNC(name, arglist, args)name(args)
?H:?P_FUNC:#define P_FUNC(name, arglist, args)static name(args)
?H:?V_FUNC_VOID:#define V_FUNC_VOID(name)name(void)
?H:?P_FUNC_VOID:#define P_FUNC_VOID(name)static name(void)
?H:?_:#define _(args) args
?H:?%<:#else
?H:?NXT_ARG:#define NXT_ARG ;
?H:?DOTS:#define DOTS
?H:?V_FUNC:#define V_FUNC(name, arglist, args)name arglist args;
?H:?P_FUNC:#define P_FUNC(name, arglist, args)static name arglist args;
?H:?V_FUNC_VOID:#define V_FUNC_VOID(name)name()
?H:?P_FUNC_VOID:#define P_FUNC_VOID(name)static name()
?H:?_:#define _(args) ()
?H:?%<:#endif
?H:.
?W:%<:NXT_ARG DOTS V_FUNC P_FUNC V_FUNC_VOID P_FUNC_VOID _
?LINT:set prototype
: Cruising for prototypes
echo " "
echo "Checking out
 function prototypes..." >&4
$cat >prototype.c <<'EOCP'
int main(int argc, char *argv[]) {
 exit(0);}
EOCP
if $cc $ccflags -c prototype.c >prototype.out 2>&1 ; then
 echo "Your C compiler appears to support function prototypes."
 val="$define"
else
 echo "Your C compiler doesn't seem to understand function prototypes."
 val="$undef"
fi
set prototype
eval $setvar
$rm -f prototype*
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/prototype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Warn_v7EXT.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Warn_v7EXT.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:01:42  ram
?RCS: patch36: call ./v7 explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit issues warnings to V7 sites that they are living dangerously.
?X: This unit needs to get mentioned in End.U to get included.
?X:
?MAKE:Warn_v7EXT: package Guess
?MAKE: -pick add $@ %<
: Warnings
if ./v7;
 then
 cat <<EOM

NOTE: the V7 compiler may ignore some #undefs that $package uses.  If so,
you may get messages about redefining EXT.  Some V7 compilers also have
difficulties with #defines near buffer boundaries, so beware.  You may have
to play with the spacing in some .h files, believe it or not.
EOM
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Warn_v7EXT.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_shmctl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_shmctl.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:18  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_shmctl: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_shmctl:
?S: This variable conditionally defines the HAS_SHMCTL symbol, which
?S: indicates to the C program that the shmctl() routine is available.
?S:.
?C:HAS_SHMCTL:
?C: This symbol, if defined, indicates that the shmctl() routine is
?C: available to perform shared memory control operations.
?C:.
?H:#$d_shmctl
 HAS_SHMCTL  /**/
?H:.
?LINT:set d_shmctl
: see if shmctl exists
set shmctl d_shmctl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_shmctl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: mboxchar.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: mboxchar.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:13:12  ram
?RCS: patch56: ensure ctrl-A characters are visible in prompt (WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:11:22  ram
?RCS: patch23: added support for MMDF mailboxes (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:mboxchar: cat package shsharp Myread Oldconfig
?MAKE: -pick add $@ %<
?S:mboxchar:
?S: This variable
 contains the eventual value of the MBOXCHAR symbol,
?S: which is how a C program can identify a file as a mailbox.
```

```
?S:.
?C:MBOXCHAR:
?C: This symbol contains a character which will match the beginning
?C: of a mailbox file.
?C:.
?H:#define MBOXCHAR '$mboxchar'  /**/
?H:.
?T:CTRLA
?INIT:CTRLA=`echo a | tr a '\001'`
: determine how to determine when a file is a mailbox
case "$mboxchar" in
") dflt=F;;
?X: The following ^A is two-chars to ensure it will print out -- WED
"$CTRLA") dflt='^A';;
*)  dflt="$mboxchar";;
esac
$cat <<EOM

In saving articles, $package wants to differentiate between saving to
mailbox format files and normal files.  It does this by examining the
first character of the file in question.  On most systems the first line
starts with "From ...", so the first character is an F.  Other systems
use magic cookies like control codes between articles, so one of those
would be first.  For example, MMDF messages are separated with lines of
four control-A's (you may specify one
 as ^A, i.e. caret A).

EOM
rp="What's the first character of a mailbox file?"
. ./myread
mboxchar="$ans"
case "$mboxchar" in
'F') ;;
"$CTRLA") ;;
'^A'|'^a') mboxchar="$CTRLA";;
*)  cat <<'EOM'

You will need to edit the shell script mbox.saver to properly append an
article to a mailbox.  The arguments to the script are documented in
EOM
 case "$shsharp" in
 false) echo "comments in mbox.saver.std.";;
 true) echo "comments in the shell script itself.";;
 esac
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/dist/U/mboxchar.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_brokstat.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_brokstat.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:30:53  ram
?RCS: patch61: created
?RCS:
?MAKE:d_brokstat: cat contains cppstdin cppminus +cppflags rm Setvar
?MAKE: -pick add $@ %<
?S:d_brokstat:
?S: This variable conditionally defines STAT_MACROS_BROKEN if some
?S: of the S_IS*() macros from <sys/stat.h> give false positive on
?S: regular files.
?S:.
?C:STAT_MACROS_BROKEN:
?C: This symbol, if defined, indicates that the S_IS*() stat macros
?C: such
 as S_ISBLK() give false positive and are thus unusable.
?C: Your best bet is then to supply your own set.
?C:.
?H:#$d_brokstat STAT_MACROS_BROKEN  /**/
?H:.
?F:!try.c !try
?LINT:set d_brokstat
?LINT:usefile try
?X: This test inspired by autoconf -- RAM, 28/02/97
: are stat macros sane?
echo " "
echo "Checking whether your stat() macros are broken..."
$cat >try.c <<'EOC'
#include <sys/types.h>
#include <sys/stat.h>

#if defined(S_ISBLK) && defined(S_IFDIR)
#if S_ISBLK(S_IFDIR)
Broken
#endif
#endif
```

```
#if defined(S_ISBLK) && defined(S_IFCHR)
#if S_ISBLK(S_IFCHR)
Broken
#endif
#endif

#if defined(S_ISLNK) && defined(S_IFREG)
#if S_ISLNK(S_IFREG)
Broken.
#endif
#endif

#if defined(S_ISSOCK) && defined(S_IFREG)
#if S_ISSOCK(S_IFREG)
Broken.
#endif
#endif
EOC
$cppstdin $cppflags $cppminus <try.c 2>/dev/null >try
if $contains Broken try >/dev/null 2>&1; then
 echo "Alas, they are.  I'll use my own macro set then." >&4
 val="$define"
else
 echo "Nope, working just fine." >&4
 val="$undef"
fi
$rm
 -f try try.c
set d_brokstat
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_brokstat.U
No license file was found, but licenses were detected in source scan.

```
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:uidsize: Myread Typedef uidtype Compile run i_stdlib
?MAKE: -pick add $@ %<
```

```
?S:uidsize:
?S: This variable contains the size of a uidtype in bytes.
?S:.
?C:Uid_t_size:
?C: This symbol holds the size of a Uid_t in bytes.
?C:.
?H:#define Uid_t_size $uidsize  /* UID size */
?H:.
?T:yyy zzz
?F:!try
: Check size of UID
echo " "
case "$uidtype" in
*_t) zzz="$uidtype" ;;
*)   zzz="uid"  ;;
esac
echo "Checking the size of $zzz..." >&4
cat > try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include
 <stdlib.h>
#endif
int main() {
   printf("%d\n", (int)sizeof($uidtype));
   exit(0);
}
EOCP
set try
if eval $compile_ok; then
 yyy=`$run ./try`
 case "$yyy" in
 ") uidsize=4
  echo "(I can't execute the test program--guessing $uidsize.)" >&4
  ;;
 *) uidsize=$yyy
  echo "Your $zzz is $uidsize bytes long."
  ;;
 esac
else
 uidsize=4
 echo "(I can't compile the test program--guessing $uidsize.)" >&4
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/typedefs/uidsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_cuserid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_cuserid.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:25  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_cuserid: Inlibc
?MAKE: -pick add $@ %<
?S:d_cuserid:
?S: This variable conditionally defines the HAS_CUSERID symbol, which
?S: indicates to the C program that the cuserid() routine is available
?S: to get character login names.
?S:.
?C:HAS_CUSERID :
?C: This symbol,
 if defined, indicates that the cuserid routine is
?C: available to get character login names.
?C:.
?H:#$d_cuserid HAS_CUSERID  /**/
?H:.
?LINT:set d_cuserid
: see if cuserid exists
set cuserid d_cuserid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_cuserid.U
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```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Tr.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  18:00:54  ram
?RCS: patch43: forgot to quote $@ to protect against "evil" characters
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:58:35  ram
?RCS: patch36: created
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to do a character translation. It catches translations to uppercase or
?X: to lowercase, and then invokes the real tr to perform the job.
?X:
?X: This unit is necessary on HP machines (HP strikes again!)
 with non-ascii
?X: ROMAN8-charset, where normal letters are not arranged in a row, so a-z
?X: covers not the whole alphabet but lots of special chars. This was reported
?X: by Andreas Sahlbach <a.sahlbach@tu-bs.de>.
?X:
?X: Units performing a tr '[A-Z]' '[a-z]' or the other way round should include
?X: us in their dependency and use ./tr instead.
?X:
?MAKE:Tr: startsh tr eunicefix
?MAKE: -pick add $@ %<
?F:./tr
?T:up low LC_ALL
: see whether [:lower:] and [:upper:] are supported character classes
echo " "
case "`echo AbyZ | LC_ALL=C $tr '[:lower:]' '[:upper:]' 2>/dev/null`" in
ABYZ)
 echo "Good, your tr supports [:lower:] and [:upper:] to convert case." >&4
 up='[:upper:]'
 low='[:lower:]'
 ;;
*) # There is a discontinuity in EBCDIC between 'I' and 'J'
       # (0xc9 and 0xd1), therefore that is a nice testing point.
       if test "X$up" = X -o "X$low" = X; then
     case "`echo IJ | LC_ALL=C $tr '[I-J]' '[i-j]' 2>/dev/null`" in
     ij) up='[A-Z]'
         low='[a-z]'
  ;;

 esac
       fi
```

```
 if test "X$up" = X -o "X$low" = X; then
    case "`echo IJ | LC_ALL=C $tr I-J i-j 2>/dev/null`" in
    ij) up='A-Z'
  low='a-z'
  ;;
    esac
      fi
 if test "X$up" = X -o "X$low" = X; then
    case "`echo IJ | od -x 2>/dev/null`" in
    *C9D1*|*c9d1*)
  echo "Hey, this might be EBCDIC." >&4
  if test "X$up" = X -o "X$low" = X; then
     case "`echo IJ | \
   LC_ALL=C $tr '[A-IJ-RS-Z]' '[a-ij-rs-z]' 2>/dev/null`" in
     ij) up='[A-IJ-RS-Z]'
         low='[a-ij-rs-z]'
   ;;
     esac
  fi
  if test "X$up" = X -o "X$low" = X; then
     case "`echo IJ | LC_ALL=C $tr A-IJ-RS-Z a-ij-rs-z 2>/dev/null`" in
     ij) up='A-IJ-RS-Z'
         low='a-ij-rs-z'
   ;;
     esac
  fi
  ;;
    esac
 fi
esac
case "`echo IJ | LC_ALL=C $tr \"$up\" \"$low\" 2>/dev/null`" in
ij)
   echo "Using $up and $low to convert case." >&4
   ;;
*)
   echo "I don't know how to translate letters from upper to lower case." >&4
   echo "Your tr is not acting any way I know of." >&4
    exit 1
   ;;
esac
: set up the translation script tr, must be called with ./tr of course
cat >tr <<EOSC
$startsh
case "\$1\$2" in
'[A-Z][a-z]') LC_ALL=C exec $tr '$up' '$low';;
'[a-z][A-Z]') LC_ALL=C exec $tr '$low' '$up';;
esac
LC_ALL=C exec $tr "\$@"
```

```
EOSC
chmod +x tr
$eunicefix tr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Tr.U
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```
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:Assert: cat
?MAKE: -pick add $@ %<
?F:./static_assert.h
: static assertion checking include file
?X:
?X: C programs can include this file to perform STATIC_ASSERT() checks
?X: which are done at compile-time and cause the compilation to fail when
?X: the expression is false.
?X:
?X: It is sufficient to compile with: $cc -c $ccflags try.c
?X: There is no need to link the file to spot the assertion failure.
?X:
$cat >static_assert.h <<'EOC'
#define STATIC_ASSERT(expr) \
 do { switch (0) { case ((expr) ? 1 : 0): case 0: break; } }
 while(0)
EOC
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Assert.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_byacc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
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```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_byacc.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:31:14  ram
?RCS: patch61: created
?RCS:
?MAKE:d_byacc: byacc Setvar
?MAKE: -pick add $@ %<
?S:d_byacc:
?S: This variable indicates whether byacc is available.
?S: If the user has specified 'portability', then Makefile.SH
?S: sees $byacc='byacc' whether or not the user actually has
?S: byacc.  This variable allows us to determine in a makefile
?S: if we really
 have byacc.
?S:.
?LINT:set d_byacc
: Check if we really have byacc
case "$byacc" in
"|'byacc') val="$undef" ;;
*) val="$define" ;;
esac
set d_byacc
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_byacc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Null.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Null.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:10  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit ends up producing shell code to set all variables to ".  This
```

```
?X: probably isn't necessary, but I'm paranoid.  About certain things.
?X:
?MAKE:Null: Head
?MAKE: -pick add.Null $@ %<
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Null.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libperl.U,v $
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:libperl useshrplib shrpenv ldlibpthname: \
 Myread Oldconfig archlibexp awk cat libc \
 _a osname osvers so patchlevel subversion usedl ld \
 ccdlflags installarchlib userelocatableinc
?MAKE: -pick wipe $@ %<
?S:libperl:
?S: The perl executable is obtained by linking perlmain.c with
?S: libperl, any static extensions (usually just DynaLoader),
?S: and any other libraries needed on this system.  libperl
?S: is usually libperl.a, but can also be libperl.so.xxx if
?S: the user wishes to build a perl executable with a shared
?S: library.
?S:.
?S:useshrplib:
?S: This variable is set to 'true' if the user wishes
?S: to build a shared libperl, and 'false' otherwise.
?S:.
?S:shrpenv:
?S: If
 the user builds a shared libperl.so, then we need to tell the
?S: 'perl' executable where it will be able to find the installed libperl.so.
?S: One way to do this on some systems is to set the environment variable
?S: LD_RUN_PATH to the directory that will be the final location of the
?S: shared libperl.so.  The makefile can use this with something like
?S:  $shrpenv $(CC) -o perl perlmain.o $libperl $libs
?S: Typical values are
?S:  shrpenv="env LD_RUN_PATH=$archlibexp/CORE"
?S: or
?S:  shrpenv=''
?S: See the main perl Makefile.SH for actual working usage.
?S:
```

```
?S: Alternatively, we might be able to use a command line option such
?S: as -R $archlibexp/CORE (Solaris) or -Wl,-rpath
?S: $archlibexp/CORE (Linux).
?S:.
?S:ldlibpthname:
?S: This variable holds the name of the shared library
?S: search path, often LD_LIBRARY_PATH.  To get an empty
?S: string, the hints file must set this to 'none'.
?S:.
?T:shrpdir majonly majmin also xxx tmp_shrpenv
?X: metalint gets confused and thinks we're
 actually setting LDOPTS
?X: and LD_RUN_PATH.
?LINT:extern LDOPTS
?LINT:change LDOPTS
?LINT:extern LD_RUN_PATH
?LINT:change LD_RUN_PATH
?LINT:change ccdlflags
?LINT:extern maintloc maintname
?Y:top
: Do we want a shared libperl?
also=''
case "$usedl" in
$undef)
 # No dynamic loading being used, so don't bother even to prompt.
 useshrplib='false'
 ;;
*) case "$useshrplib" in
 '') case "$osname" in
  svr4*|nonstopux|dgux|dynixptx|esix|powerux|haiku|cygwin*)
   dflt=y
   also='Building a shared libperl is required for dynamic loading to work on your system.'
   ;;
  *) dflt=n
   ;;
  esac
  ;;
 $define|true|[Yy]*)
  dflt=y
  ;;
 *) dflt=n
  ;;
 esac
 $cat << EOM

The perl executable is normally obtained by linking perlmain.c with
libperl${_a}, any static extensions (usually just DynaLoader), and
any other libraries needed on this system (such as -lm, etc.).  Since
```

```
your system supports dynamic loading, it is probably possible to build
a shared libperl.$so.  If you will have more than one
 executable linked
to libperl.$so, this will significantly reduce the size of each
executable, but it may have a noticeable effect on performance.  The
default is probably sensible for your system.
$also

EOM
 rp="Build a shared libperl.$so (y/n)"
 . ./myread
 case "$ans" in
 true|$define|[Yy]*)
  useshrplib='true'  ;;
 *) useshrplib='false' ;;
 esac
 ;;
esac

case "$useshrplib" in
true)
 case "$userelocatableinc" in
 true|define)
  echo "Cannot build with both -Duserelocatableinc and -Duseshrplib" >&4
  echo "See INSTALL for an explanation why that won't work." >&4
  exit 4
  ;;
 esac
 case "$libperl" in
 ")
  # Figure out a good name for libperl.so.  Since it gets stored in
  # a version-specific architecture-dependent library, the version
  # number isn't really that important, except for making cc/ld happy.
  #
  # A name such as libperl.so.10.1
  majmin="libperl.$so.$patchlevel.$subversion"
  # A name such as libperl.so.100
  majonly=`echo $patchlevel $subversion |
   $awk '{printf
"%d%02d", $1, $2}'`
  majonly=libperl.$so.$majonly
  # I'd prefer to keep the os-specific stuff here to a minimum, and
  # rely on figuring it out from the naming of libc.
  case "${osname}${osvers}" in
  *linux*|gnu*)  # ld won't link with a bare -lperl otherwise.
   dflt=libperl.$so
   ;;
  cygwin*) # ld links now against the dll directly
```

```
  majmin="cygperl5_${patchlevel}_${subversion}.${so}"
  majonly=`echo $patchlevel $subversion |
   $awk '{printf "%03d%03d", $1, $2}'`
  majonly=cygperl5.$majonly.$so
  dflt=$majmin
  ;;
 *) # Try to guess based on whether libc has major.minor.
  case "$libc" in
  *libc.$so.[0-9]*.[0-9]*) dflt=$majmin ;;
  *libc.$so.[0-9]*) dflt=$majonly ;;
  *) dflt=libperl.$so ;;
  esac
  ;;
 esac
 ;;
*) dflt=$libperl
 ;;
esac
cat << EOM

I need to select a good name for the shared libperl.  If your system uses
library names with major and minor numbers, then you might want something
like $majmin.  Alternatively, if your system uses a single
 version
number for shared libraries, then you might want to use $majonly.
Or, your system might be quite happy with a simple libperl.$so.

Since the shared libperl will get installed into a version-specific
architecture-dependent directory, the version number of the shared perl
library probably isn't important, so the default should be o.k.

EOM
 rp='What name do you want to give to the shared libperl?'
 . ./myread
 libperl=$ans
 echo "Ok, I'll use $libperl"
 ;;
*)
 libperl="libperl${_a}"
 ;;
esac

# Detect old use of shrpdir via undocumented Configure -Dshrpdir
case "$shrpdir" in
") ;;
*) $cat >&4 <<EOM
WARNING:  Use of the shrpdir variable for the installation location of
the shared $libperl is not supported.  It was never documented and
```

```
will not work in this version.  Let me (<$maintloc>)
know of any problems this may cause.

EOM
 case "$shrpdir" in
 "$archlibexp/CORE")
  $cat >&4 <<EOM
But your current setting of $shrpdir is
the default anyway, so it's harmless.
EOM
  ;;
 *)
  $cat
 >&4 <<EOM
Further, your current attempted setting of $shrpdir
conflicts with the value of $archlibexp/CORE
that installperl will use.
EOM
  ;;
 esac
 ;;
esac

# How will the perl executable find the installed shared $libperl?
# Add $xxx to ccdlflags.
# If we can't figure out a command-line option, use $shrpenv to
# set env LD_RUN_PATH.  The main perl makefile uses this.
shrpdir=$archlibexp/CORE
xxx=''
tmp_shrpenv=''
if "$useshrplib"; then
   case "$osname" in
 aix)
  # We'll set it in Makefile.SH...
  ;;
 solaris)
  xxx="-R $shrpdir"
  ;;
 freebsd|minix|mirbsd|netbsd|openbsd|interix|dragonfly|bitrig)
  xxx="-Wl,-R$shrpdir"
  ;;
 bsdos|linux|irix*|dec_osf|gnu*|haiku)
  xxx="-Wl,-rpath,$shrpdir"
  ;;
 hpux*)
  # hpux doesn't like the default, either.
  tmp_shrpenv="env LDOPTS=\"+s +b${shrpdir}\""
  ;;
```

```
 cygwin)
  # cygwin needs only ldlibpth
  ;;
 *)
  tmp_shrpenv="env LD_RUN_PATH=$shrpdir"
  ;;
 esac
 case "$xxx" in
 '') ;;
 *)
  # Only add $xxx if it isn't already in ccdlflags.
  case
 " $ccdlflags " in
  *" $xxx "*) ;;
  *) ccdlflags="$ccdlflags $xxx"
   cat <<EOM >&4

Adding $xxx to the flags
passed to $ld so that the perl executable will find the
installed shared $libperl.

EOM
   ;;
  esac
  ;;
 esac
fi
# Fix ccdlflags in AIX for building external extensions.
# (For building Perl itself bare -bE:perl.exp is needed,
#  Makefile.SH takes care of this.)
case "$osname" in
aix) ccdlflags="$ccdlflags -bE:$installarchlib/CORE/perl.exp" ;;
esac
# Respect a hint or command-line value.
case "$shrpenv" in
'') shrpenv="$tmp_shrpenv" ;;
esac
case "$ldlibpthname" in
'') ldlibpthname=LD_LIBRARY_PATH ;;
none) ldlibpthname='' ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/libperl.U
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?RCS: $Id: Extractall.U 1 2006-08-24 12:32:52Z rmanfredi $

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extractall.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:00:43  ram
?RCS: patch61: created
?RCS:
?X:
?X: If extraction has been requested, load the configuration file, perform
?X: the extraction and exit.
?X:
?X: This unit was originally a part of Options.U. It had to be removed from
?X: it to prevent a dependency cycle: Extract -> src -> Options -> Extract
?X: The Begin.U unit now requires us before beginning to do anything
?X: interesting, to ensure
 proper semantics. -- RAM, 15/03/96
?X:
?MAKE:Extractall: Extract Options
?MAKE: -pick wipe $@ %<
: extract files and exit if asked to do so
case "$extractsh" in
true)
?X: Undo the forced silent=true when -S was supplied, by probing realsilent
?X: which was set iff -s was also given. See Options.U for details.
 case "$realsilent" in
 true) ;;
 *) exec 1>&4;;
 esac
 case "$config_sh" in
 ") config_sh='config.sh';;
 esac
 echo " "
 echo "Fetching answers from $config_sh..."
 cd ..
 . $config_sh
?X: extract has to be run from the top directory, not within UU.
 . UU/optdef.sh
 echo " "
?X: extract has to be run from the top directory, not within UU.
 . UU/extract
 rm -rf UU
 echo "Extraction done."
```

```
 exit 0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Extractall.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: usecbacktrace.U,v $
?RCS:
?RCS: Copyright (c) 2014 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: usecbacktrace.U,v $
?RCS:
?MAKE:usecbacktrace: Myread Oldconfig Setvar Getfile d_backtrace
?MAKE: -pick add $@ %<
?Y:TOP
?S:usecbacktrace:
?S: This variable indicates whether we are compiling with backtrace
?S: support.
?S:.
?C:USE_C_BACKTRACE:
?C: This symbol, if defined, indicates that Perl should
?C: be built with support for backtrace.
?C:.
?H:#$usecbacktrace USE_C_BACKTRACE  /**/
?H:.
: Check if C backtrace is actually supported.
case "$usecbacktrace" in
 "") usecbacktrace=$undef ;;
 [yY]*|true|$define)
   case "$d_backtrace" in
     [yY]*|true|$define)
       ;;
     *)
       echo "This system does not support backtrace" >&4
       usecbacktrace=$undef

  ;;
     esac
   ;;
 esac
```

Found in path(s):

* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/usebacktrace.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getppid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_getppid.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:45  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_getppid: Inlibc
?MAKE: -pick add $@ %<
?S:d_getppid:
?S: This variable conditionally defines the HAS_GETPPID symbol, which
?S: indicates to the C program that the getppid() routine is available
?S: to get the parent process ID.
?S:.
?C:HAS_GETPPID :
?C: This symbol,
 if defined, indicates that the getppid routine is
?C: available to get the parent process ID.
?C:.
?H:#$d_getppid HAS_GETPPID  /**/
?H:.
?LINT:set d_getppid
: see if getppid exists
set getppid d_getppid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getppid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysparam.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysparam.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:22:43  ram
?RCS: patch32: created
?RCS:
?MAKE:i_sysparam: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysparam:
?S: This variable conditionally defines the I_SYS_PARAM symbol, and indicates
?S: whether a C program should include <sys/param.h>.
?S:.
?C:I_SYS_PARAM:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/param.h>.
?C:.
?H:#$i_sysparam I_SYS_PARAM  /**/
?H:.
?LINT:set
 i_sysparam
: see if this is a sys/param system
set sys/param.h i_sysparam
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sysparam.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2017, Karl Williamson
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_wchar: Inhdr
?MAKE: -pick add $@ %<
?S:i_wchar:
?S: This variable conditionally defines the I_WCHAR symbol,
?S: that indicates whether a C program may include <wchar.h>.
```

```
?S:.
?C:I_WCHAR:
?C: This symbol, if defined, indicates to the C program that <wchar.h>
?C: is available for inclusion
?C:.
?H:#$i_wchar   I_WCHAR /**/
?H:.
?LINT:set i_wchar
: see if wchar.h is present
set wchar.h i_wchar
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_wchar.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_statfs_f_flags: \
 Hasfield i_sysparam i_sysmount i_systypes \
 i_sysvfs i_sysstatfs Setvar d_statfs_s
?MAKE: -pick add $@ %<
?S:d_statfs_f_flags:
?S: This variable conditionally defines the HAS_STRUCT_STATFS_F_FLAGS
?S: symbol, which indicates to struct statfs from has f_flags member.
?S: This kind of struct statfs is coming from sys/mount.h (BSD),
?S: not from sys/statfs.h (SYSV).
?S:.
?C:HAS_STRUCT_STATFS_F_FLAGS:
?C: This symbol, if defined, indicates that the struct statfs
?C: does have the f_flags member containing the mount flags of
?C: the filesystem containing the file.
?C: This kind of struct statfs is coming from <sys/mount.h> (BSD 4.3),
?C: not from <sys/statfs.h> (SYSV).  Older BSDs
 (like Ultrix) do not
?C: have statfs() and struct statfs, they have ustat() and getmnt()
?C: with struct ustat and struct fs_data.
?C:.
?H:#$d_statfs_f_flags HAS_STRUCT_STATFS_F_FLAGS  /**/
?H:.
?LINT:set d_statfs_f_flags
: see if struct statfs knows about f_flags
```

```
case "$d_statfs_s" in
define)
 echo " "
 echo "Checking to see if your struct statfs has f_flags field..." >&4
 set d_statfs_f_flags statfs f_flags $i_systypes sys/types.h $i_sysparam sys/param.h $i_sysmount sys/mount.h
$i_sysvfs sys/vfs.h $i_sysstatfs sys/statfs.h
 eval $hasfield
 ;;
*) val="$undef"
 set d_statfs_f_flags
 eval $setvar
 ;;
esac
case "$d_statfs_f_flags" in
"$define")      echo "Yes, it does."   ;;
*)              echo "No, it doesn't." ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_statfs_f_flags.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: MailAuthor.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: MailAuthor.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  15:04:41  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.4  1994/08/29  16:05:09  ram
?RCS: patch32: avoid message sending if they said no previously
?RCS:
?RCS: Revision 3.0.1.3  1993/10/16  13:47:30  ram
?RCS: patch12: now makes sure user-specified address is in Internet format
?RCS:
?RCS: Revision
 3.0.1.2  1993/09/13  15:48:49  ram
?RCS: patch10: reverted to original intent by the Author himself
```

```
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:38:38  ram
?RCS: patch7: now prompts user for its e-mail address
?RCS: patch7: no longer silent when mail has been sent
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:06  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?RCS:
?X:
?X: This unit asks the user to please send a message to the author.
?X: To force inclusion of this unit, you must add it's name to the
?X: dependancies on the MAKE line in your private copy of End.U.
?X: This allows a smart mailagent program to automatically let users know
?X: when their package is out of date, and to allow users to be notified of
?X: any future patches.
?X:
?MAKE:MailAuthor mailpatches notifypatches usermail: test cat mailer \
 package Myread patchlevel baserev rm rsrc Oldconfig Configdir
?MAKE: -pick wipe $@ %<
?S:mailpatches:
?S: Indicates whether the user would like future patches to be mailed
?S: directly
 to them.
?S:.
?S:notifypatches:
?S: Indicates whether the user would like notification of future patches
?S: mailed to them.
?S:.
?S:usermail:
?S: This variable is used internally by Configure to keep track of the
?S: user e-mail address, where notifications or patches should be sent.
?S: A '-' value means the return address will be extracted by parsing
?S: the mail headers.
?S:.
?T:opt mailpatches notifypatches atsh status
: notify author that his package is used
if $test -f ../.config/mailauthor &&
 cmp $rsrc/patchlevel.h ../.config/mailauthor >/dev/null 2>&1
then
 status="say that you're using $package";
 case "$mailpatches" in
 true) status='have patches mailed to you as they are issued';;
 esac
 case "$notifypatches" in
 true) status='be notified when new patches are issued';;
 esac
 $cat <<EOM
```

```
You have already sent the author of $package (<MAINTLOC>) mail to
$status. If you wish, you may modify
your previous request by sending a new mail with different options.

EOM
 rp='Should
 I send a status update to <MAINTLOC>?'
 dflt=n
else
 $cat <<EOM

If you are able to send mail to the Internet, the author of $package would
really appreciate you letting me send off a quick note, just to say that you've
tried it. The author is more likely to spend time maintaining $package if it's
known that many people are using it, and you can even ask to get sent new
patches automagically this way if you wish. To protect your privacy, all I'll
say in the mail is the version of $package that you're using.

EOM
 rp='Should I send mail to <MAINTLOC>?'
 dflt=y
?X: Ensure default is 'n' if question has been asked already, in case they
?X: run Configure -d next time and answered 'n' the first time. Therefore,
?X: an empty nomail will be created later on even if no mail is sent.
 $test -f ../.config/nomail && dflt=n
fi
. ./myread
case "$ans" in
[yY]*)
 echo " "
 echo "Great! Your cooperation is really appreciated."
 $cat <<EOM

Some braindead sites do not set a proper return
 address in the From: header of
their outgoing mail, making it impossible to reply to mail they generate.
If your site is broken in this way, write to your system administrator and get
it fixed!!! In the mean time, you can manually specify the Internet e-mail
address by which the author can get back to you, should there be a need to do
so. If manually specified, it should be something like "user@domain.top".
If your mail system generates addresses correctly, specify "none".

EOM
 case "$usermail" in
 '-'|'') dflt=none;;
 *) dflt="$usermail";;
 esac
```

```
rp='Manually specify a return address to use:'
. ./myread
case "$ans" in
none|*@*.*)
 case "$ans" in
 none) usermail='-';;
 *) usermail="$ans";;
 esac
 ;;
*)
 echo "(Address does not look like an Internet one -- ignoring it.)"
?X:
?X: If we can't trust their mailer or their return address, it's highly
?X: suggested that they only register and don't ask to get anything from
?X: the author, since it's likely to bounce in null-land --
 RAM.
?X:
 usermail='-'
 mailpatches=false
 notifypatches=false
 ;;
esac
echo " "
opt=''
rp='Would you like to have new patches automatically mailed to you?'
case "$mailpatches" in
true) dflt=y;;
*) dflt=n;;
esac
. ./myread
case "$ans" in
[yY]*) opt=' mailpatches'; mailpatches=true;;
*)
 mailpatches=false
 echo " "
 rp='Ok, would you like to simply be notified of new patches?'
 case "$notifypatches" in
 false) dflt=n;;
 *) dflt=y;;
 esac
 . ./myread
 echo " "
 case "$ans" in
 [yY]*) opt=' notifypatches'; notifypatches=true;;
 *)
  echo "Fine, I'll simply say that you've tried it then."
  notifypatches=false
  ;;
```

```
  esac
  ;;
 esac
 echo "Sending mail to <MAINTLOC>..." >&4
?X: Bizarre hack here. We can't just put @SH in the hereis lines below, because
?X: metaconfig will interpret it as a command, and there's no quoting mechanism.
?X: Do it via a variable instead.
 atsh='@SH'
 $mailer <MAINTLOC> <<EOM >/dev/null 2>&1
Subject: Command
Precedence: junk
To: <MAINTLOC>

$atsh
 package $usermail $package $baserev $patchlevel$opt
EOM
 $rm -f ../.config/mailauthor ../.config/nomail
 cp $rsrc/patchlevel.h ../.config/mailauthor
 ;;
*)
 case "$dflt" in
 "y")
  echo "Oh well, maybe next time."
  cp /dev/null ../.config/nomail
  ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/MailAuthor.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: orderlib.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  16:18:18  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: likewise for .o replaced by $_o
```

```
?RCS: patch61: now uses the ar located by Loc.U
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:33:04  ram
?RCS: patch45: allows hint files to specify their own value for 'ranlib'
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:26:48  ram
?RCS: patch36: now performs a real small compile for accurate checks (ADO)
?RCS:
?RCS: Revision 3.0.1.1
  1994/08/29  16:31:17  ram
?RCS: patch32: use cc variable instead of hardwired 'cc' in 1st compile
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:orderlib ranlib: Loc ar cat test rm +cc +ccflags +ldflags +libs _a _o
?MAKE: -pick add $@ %<
?S:orderlib:
?S: This variable is "true" if the components of libraries must be ordered
?S: (with `lorder $* | tsort`) before placing them in an archive.  Set to
?S: "false" if ranlib or ar can generate random libraries.
?S:.
?S:ranlib:
?S: This variable is set to the pathname of the ranlib program, if it is
?S: needed to generate random libraries.  Set to ":" if ar can generate
?S: random libraries or if random libraries are not supported
?S:.
?F:!foobar
: see if ar generates random libraries by itself
echo " "
echo "Checking how to generate random libraries on your machine..." >&4
?X: Some systems (like MIPS) complain when running ar... Others like Ultrix
?X: need an explicit 'ar ts'
 to add the table of contents.
?X: Still others like Linux run ar ts successfully, but still need ranlib.
?X: This set of tests seems the minimum necessary to check out Linux.
?X: We need to explicitly put the entries in out-of-order so that Sun's ld
?X: will fail.  (Otherwise it complains, but gives an exit status of 0.)
echo 'int bar1() { return bar2(); }' > bar1.c
echo 'int bar2() { return 2; }' > bar2.c
$cat > foo.c <<'EOP'
int main() { printf("%d\n", bar1()); exit(0); }
EOP
$cc $ccflags -c bar1.c >/dev/null 2>&1
$cc $ccflags -c bar2.c >/dev/null 2>&1
$cc $ccflags -c foo.c >/dev/null 2>&1
$ar rc bar$_a bar2$_o bar1$_o >/dev/null 2>&1
if $cc $ccflags $ldflags -o foobar foo$_o bar$_a $libs > /dev/null 2>&1 &&
```

```
 ./foobar >/dev/null 2>&1; then
 echo "ar appears to generate random libraries itself."
 orderlib=false
 ranlib=":"
elif $ar ts bar$_a >/dev/null 2>&1 &&
 $cc $ccflags $ldflags -o foobar foo$_o bar$_a $libs > /dev/null 2>&1 &&
 ./foobar >/dev/null 2>&1; then
  echo "a table of contents
 needs to be added with 'ar ts'."
  orderlib=false
  ranlib="$ar ts"
else
?X: Allow hints to specify their own ranlib "script". For instance, on
?X: some NeXT machines, the timestamp put by ranlib is not correct, and this
?X: may raise tedious recompiles for nothing. Therefore, NeXT may add the
?X: ranlib='sleep 5; /bin/ranlib' line in their hints to "fix" that.
?X: (reported by Andreas Koenig <k@franz.ww.tu-berlin.de>)
 case "$ranlib" in
 :) ranlib=";;
 ")
  ranlib=`./loc ranlib X /usr/bin /bin /usr/local/bin`
  $test -f $ranlib || ranlib="
  ;;
 esac
 if $test -n "$ranlib"; then
  echo "your system has '$ranlib'; we'll use that."
  orderlib=false
 else
  echo "your system doesn't seem to support random libraries"
  echo "so we'll use lorder and tsort to order the libraries."
  orderlib=true
  ranlib=":"
 fi
fi
$rm -f foo* bar*
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/orderlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strerror_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_strerror_l:
?S: This variable conditionally defines the HAS_STRERROR_L symbol, which
```

```
?S: indicates to the C program that the strerror_l() routine is available
?S: to return the error message for a given errno value in a particular
?S: locale (identified by a locale_t object).
?S:.
?C:HAS_STRERROR_L:
?C: This symbol, if defined, indicates that the strerror_l routine is
?C: available to return the error message for a given errno value in
?C: a particular locale (identified by a locale_t object).
?C:.
?H:#$d_strerror_l HAS_STRERROR_L  /**/
?H:.
?LINT:set d_strerror_l
: see if strerror_l exists
set strerror_l d_strerror_l
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strerror_l.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_hidnet.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_hidnet.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:20  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_hidnet hiddennet: cat sed myhostname mydomain Myread Oldconfig
?MAKE: -pick add $@ %<
?S:d_hidnet:
?S: This variable conditionally defines the symbol HIDDEN_NET, which
?S: tells the C program that it should pretend it is on a different
?S: host for purposes of advertising a mailing address.
?S:.
?S:hiddennet:
?S: This variable contains
 the value eventually given to the symbol
?S: HIDDEN_NET, if d_hidnet defines it.  If defined, it's the name
?S: of the host which serves as the mail server for a network that
?S: is invisible to the outside world.
```

```
?S:.
?C:HIDDEN_NET (HIDDENNET):
?C: This symbol, if defined, contains the host name that you want to
?C: advertise to the outside world.  This name can be different from
?C: your actual host name, as long as the machine you specify knows
?C: how to forward mail to you.
?C:.
?H:#$d_hidnet HIDDEN_NET "$hiddennet" /**/
?H:.
: now get the host name to advertise as our mailing address
case "$hiddennet" in
") dflt=n;;
*) dflt=y;;
esac
$cat <<EOM

Some sites are on "hidden" networks, in the sense that the network appears
to the outside world as a single machine.  The advertised name of any host
on this hidden network is the name of one machine on the local network which
knows how to forward mail to any other host on the hidden network.

Do you wish to advertise a different hostname
 to the world than the one your
own host ($myhostname$mydomain) has?

EOM
rp='Use "hidden" network?'
. ./myread
case "$ans" in
n*) d_hidnet="$undef" hiddennet=";;
*)
 d_hidnet="$define"
 echo " "
 case "$hiddennet" in
 ") dflt=`echo $mydomain | $sed -e 's/^\.//'`;;
 *) dflt="$hiddennet";;
 esac
 rp='What hostname do you wish to advertise?'
 . ./myread
 hiddennet="$ans"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_hidnet.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethostent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_gethostent_r gethostent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_gethostent_r:
?S: This variable conditionally defines the HAS_GETHOSTENT_R symbol,
?S: which indicates to the C program that the gethostent_r()
?S: routine is available.
?S:.
?S:gethostent_r_proto:
?S: This variable encodes the prototype of gethostent_r.
?S: It is zero if d_gethostent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gethostent_r
?S: is defined.
?S:.
?C:HAS_GETHOSTENT_R:
?C: This symbol, if defined, indicates that the gethostent_r routine
?C: is
 available to gethostent re-entrantly.
?C:.
?C:GETHOSTENT_R_PROTO:
?C: This symbol encodes the prototype of gethostent_r.
?C: It is zero if d_gethostent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gethostent_r
?C: is defined.
?C:.
?H:#$d_gethostent_r HAS_GETHOSTENT_R /**/
?H:#define GETHOSTENT_R_PROTO $gethostent_r_proto /**/
?H:.
?T:try hdrs d_gethostent_r_proto
: see if gethostent_r exists
set gethostent_r d_gethostent_r
eval $inlibc
case "$d_gethostent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_gethostent_r_proto:$usethreads" in
 ":define") d_gethostent_r_proto=define
  set d_gethostent_r_proto gethostent_r $hdrs
  eval $hasproto ;;
 *) ;;
```

```
esac
case "$d_gethostent_r_proto" in
define)
case "$gethostent_r_proto" in
"|0) try='int gethostent_r(struct hostent*, char*, size_t, struct hostent**, int*);'
./protochk "$extern_C $try" $hdrs && gethostent_r_proto=I_SBWRE ;;
esac
case "$gethostent_r_proto"
in
"|0) try='int gethostent_r(struct hostent*, char*, int, int*);'
./protochk "$extern_C $try" $hdrs && gethostent_r_proto=I_SBIE ;;
esac
case "$gethostent_r_proto" in
"|0) try='struct hostent* gethostent_r(struct hostent*, char*, int, int*);'
./protochk "$extern_C $try" $hdrs && gethostent_r_proto=S_SBIE ;;
esac
case "$gethostent_r_proto" in
"|0) try='struct hostent* gethostent_r(struct hostent*, char*, int);'
./protochk "$extern_C $try" $hdrs && gethostent_r_proto=S_SBI ;;
esac
case "$gethostent_r_proto" in
"|0) try='int gethostent_r(struct hostent*, char*, int);'
./protochk "$extern_C $try" $hdrs && gethostent_r_proto=I_SBI ;;
esac
case "$gethostent_r_proto" in
"|0) try='int gethostent_r(struct hostent*, struct hostent_data*);'
./protochk "$extern_C $try" $hdrs && gethostent_r_proto=I_SD ;;
esac
case "$gethostent_r_proto" in
"|0) d_gethostent_r=undef
 gethostent_r_proto=0
 echo "Disabling gethostent_r, cannot determine prototype." >&4 ;;
* ) case
"$gethostent_r_proto" in
 REENTRANT_PROTO*) ;;
 *) gethostent_r_proto="REENTRANT_PROTO_$gethostent_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "gethostent_r has no prototype, not using it." >&4 ;;
 esac
 d_gethostent_r=undef
 gethostent_r_proto=0
 ;;
esac
;;
```

```
*) gethostent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_gethostent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: randfunc.U,v 3.0 1993/08/18 12:09:39 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: randfunc.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This is the new unit that should be used when random
?X: functions are to be used. It thus makes randbits.U obsolete.
?X:
?X: This unit gives a simple #define for Drand01, which produces
?X: doubles in the range [0,1) using the "best" random number
?X: generator available.  The source should just call Drand01
?X: and not worry about the underlying
 implementation.
?X:     Andy Dougherty  July 1998
?X:
?MAKE:randfunc drand01 seedfunc randbits randseedtype: \
 Compile Myread Csym ccflags
?MAKE: -pick add $@ %<
?S:randfunc:
?S: Indicates the name of the random number function to use.
?S: Values include drand48, random, and rand. In C programs,
?S: the 'Drand01' macro is defined to generate uniformly distributed
?S: random numbers over the range [0., 1.[ (see drand01 and nrand).
?S:.
?S:drand01:
?S: Indicates the macro to be used to generate normalized
?S: random numbers.  Uses randfunc, often divided by
?S: (double) (((unsigned long) 1 << randbits)) in order to
?S: normalize the result.
```

```
?S: In C programs, the macro 'Drand01' is mapped to drand01.
?S:.
?S:randseedtype:
?S: Indicates the type of the argument of the seedfunc.
?S:.
?S:seedfunc:
?S: Indicates the random number generating seed function.
?S: Values include srand48, srandom, and srand.
?S:.
?S:randbits:
?S: Indicates how many bits are produced by the function used to
?S: generate
 normalized random numbers.
?S:.
?C:RANDFUNC:
?C: This symbol defines the random function used to define Drand01().
?C:.
?C:Drand01:
?C: This macro is to be used to generate uniformly distributed
?C: random numbers over the range [0., 1.[.  You may have to supply
?C: an 'extern double drand48();' in your program since SunOS 4.1.3
?C: doesn't provide you with anything relevant in its headers.
?C: See HAS_DRAND48_PROTO.
?C:.
?C:Rand_seed_t:
?C: This symbol defines the type of the argument of the
?C: random seed function.
?C:.
?C:seedDrand01:
?C: This symbol defines the macro to be used in seeding the
?C: random number generator (see Drand01).
?C:.
?C:RANDBITS:
?C: This symbol indicates how many bits are produced by the
?C: function used to generate normalized random numbers.
?C: Values include 15, 16, 31, and 48.
?C:.
?H:#define RANDFUNC  $randfunc  /**/
?H:#define Drand01()  $drand01  /**/
?H:#define Rand_seed_t  $randseedtype  /**/
?H:#define seedDrand01(x) $seedfunc((Rand_seed_t)x) /**/
?H:#define
 RANDBITS  $randbits  /**/
?H:.
?LINT:change ccflags
?LINT:unclosed $randbits))"
: How can we generate normalized random numbers ?
echo " "
```

```
echo "Using our internal random number implementation..." >&4

case "$ccflags" in
*-Dmy_rand=*|*-Dmy_srand=*)
 echo "Removing obsolete -Dmy_rand, -Dmy_srand, and -Drandbits from ccflags." >&4
 ccflags="`echo $ccflags | sed -e 's/-Dmy_rand=random/ /'`"
 ccflags="`echo $ccflags | sed -e 's/-Dmy_srand=srandom/ /'`"
 ccflags="`echo $ccflags | sed -e 's/-Drandbits=[0-9][0-9]*/ /'`"
 ;;
esac

randfunc=Perl_drand48
drand01="Perl_drand48()"
seedfunc="Perl_drand48_init"
randbits=48
randseedtype=U32
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/randfunc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_socks5_init: Inlibc
?MAKE: -pick add $@ %<
?S:d_socks5_init:
?S: This variable conditionally defines the HAS_SOCKS5_INIT symbol, which
?S: indicates to the C program that the socks5_init() routine is available.
?S:.
?C:HAS_SOCKS5_INIT:
?C: This symbol, if defined, indicates that the socks5_init routine is
?C: available to initialize SOCKS 5.
?C:.
?H:#$d_socks5_init HAS_SOCKS5_INIT  /**/
?H:.
?LINT:set d_socks5_init
: see if socks5_init exists
set socks5_init d_socks5_init
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/perl/d_socks5_init.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sitelib.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sitelib.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?RCS: Revision 3.0.1.1  1997/02/28  16:21:35  ram
?RCS: patch61: created
?RCS:
?MAKE:sitelib sitelibexp installsitelib sitelib_stem: cat Getfile Oldconfig \
 Setprefixvar Prefixit package version sed installstyle siteprefix
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitelib=''
?S:sitelib:
?S: This variable contains the
 eventual value of the SITELIB symbol,
?S: which is the name of the private library for this package.  It may
?S: have a ~ on the front. It is up to the makefile to eventually create
?S: this directory while performing installation (with ~ substitution).
?S: The standard distribution will put nothing in this directory.
?S: After perl has been installed, users may install their own local
?S: architecture-independent modules in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitelibexp=''
?S:sitelibexp:
?S: This variable is the ~name expanded version of sitelib, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installsitelib=''
?S:installsitelib:
?S: This variable is really the same as sitelibexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
```

```
?S:.
?S:sitelib_stem:
?S: This variable is $sitelibexp with any trailing version-specific component
?S: removed.
  The elements in inc_version_list (inc_version_list.U) can
?S: be tacked onto this variable to generate a list of directories to search.
?S:.
?C:SITELIB:
?C: This symbol contains the name of the private library for this package.
?C: The library is private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.  The program
?C: should be prepared to do ~ expansion.
?C: The standard distribution will put nothing in this directory.
?C: After perl has been installed, users may install their own local
?C: architecture-independent modules in this directory with
?C:  MakeMaker Makefile.PL
?C: or equivalent.  See INSTALL for details.
?C:.
?C:SITELIB_EXP:
?C: This symbol contains the ~name expanded version of SITELIB, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?C:SITELIB_STEM:
?C: This define is SITELIB_EXP with any trailing version-specific component
?C: removed.  The elements in
 inc_version_list (inc_version_list.U) can
?C: be tacked onto this variable to generate a list of directories to search.
?C:.
?H:#define SITELIB "$sitelib"  /**/
?H:#define SITELIB_EXP "$sitelibexp"  /**/
?H:#define SITELIB_STEM "$sitelib_stem"  /**/
?H:.
?T:prog
?LINT:change prefixvar
?LINT:set installsitelib
?LINT:set sitelib
?LINT:set sitelibexp
: determine where site specific libraries go.
: Usual default is /usr/local/lib/perl5/site_perl/$version
: The default "style" setting is made in installstyle.U
: XXX No longer works with Prefixit stuff.
?X: remove any trailing -3.0 or other version identification
prog=`echo $package | $sed 's/-*[0-9.]*$//'`
case "$sitelib" in
") case "$installstyle" in
 *lib/perl5*) dflt=$siteprefix/lib/$package/site_$prog/$version ;;
 *)  dflt=$siteprefix/lib/site_$prog/$version ;;
 esac
```

```
 ;;
*) dflt="$sitelib"
 ;;
esac
$cat <<EOM

The installation process will create a directory for
site-specific extensions and modules.  Most users find it convenient
to place
 all site-specific files in this directory rather than in the
main distribution directory.

EOM
fn=d~+
rp='Pathname for the site-specific library files?'
. ./getfile
prefixvar=sitelib
. ./setprefixvar
sitelib_stem=`echo "$sitelibexp" | sed "s,/$version$,,"`
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/sitelib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_mkdir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_mkdir.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:37  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_mkdir: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkdir:
?S: This variable conditionally defines the HAS_MKDIR symbol, which
?S: indicates to the C program that the mkdir() routine is available
?S: to create directories..
?S:.
?C:HAS_MKDIR (MKDIR):
?C: This symbol, if defined, indicates that the mkdir routine is available
```

```
?C: to create directories.
  Otherwise you should fork off a new process to
?C: exec /bin/mkdir.
?C:.
?H:#$d_mkdir HAS_MKDIR  /**/
?H:.
?LINT:set d_mkdir
: see if mkdir exists
set mkdir d_mkdir
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_mkdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_dlerror.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_dlerror.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  13:52:49  ram
?RCS: patch56: force compile-link test since symbol might lie in crt0.o (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:11:23  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_dlerror: Inlibc runnm
?MAKE: -pick add $@ %<
?S:d_dlerror:
?S: This variable conditionally defines the HAS_DLERROR symbol, which
?S: indicates
 to the C program that the dlerror() routine is available.
?S:.
?C:HAS_DLERROR :
?C: This symbol, if defined, indicates that the dlerror routine is
?C: available to return a string describing the last error that
?C: occurred from a call to dlopen(), dlclose() or dlsym().
?C:.
?H:#$d_dlerror HAS_DLERROR /**/
```

```
?H:.
?T: xxx_runnm
?LINT:set d_dlerror
?X: We don't permanently change runnm, but we do temporarily.
?LINT: change runnm
: see if dlerror exists
?X: On NetBSD and FreeBSD, dlerror might be available, but it is in
?X: /usr/lib/crt0.o, not in any of the libraries.  Therefore, do not
?X: use the nm extraction, but use a real compile and link test instead.
xxx_runnm="$runnm"
runnm=false
set dlerror d_dlerror
eval $inlibc
runnm="$xxx_runnm"
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_dlerror.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libpth.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  16:08:49  ram
?RCS: patch61: new loclibpth variable
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:31:30  ram
?RCS: patch45: call ./mips instead of just mips (WED)
?RCS:
?RCS: Revision 3.0.1.4  1994/08/29  16:29:15  ram
?RCS: patch32: added /lib/pa1.1 for HP-UX specially tuned PA-RISC libs (ADO)
?RCS: patch32: fixed information message, making it clearer (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:03:54  ram
?RCS: patch30: added /usr/shlib to
 glibpth for shared-only libraries
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:26:57  ram
?RCS: patch27: fixed a typo (libpth -> glibpth)
?RCS:
```

```
?RCS: Revision 3.0.1.1  1994/05/06  15:07:53  ram
?RCS: patch23: now asks for library directories to be searched (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit initializes the path for C library lookup.
?X:
?MAKE:libpth glibpth xlibpth plibpth loclibpth: \
 usrinc incpath test cat Myread Oldconfig
?MAKE: -pick add $@ %<
?S:libpth:
?S: This variable holds the general path (space-separated) used to find
?S: libraries. It is intended to be used by other units.
?S:.
?S:glibpth:
?S: This variable holds the general path (space-separated) used to
?S: find libraries.  It may contain directories that do not exist on
?S: this platform, libpth is the cleaned-up version.
?S:.
?S:xlibpth:
?S: This variable holds extra path (space-separated) used to find
?S: libraries on this platform,
 for example CPU-specific libraries
?S: (on multi-CPU platforms) may be listed here.
?S:.
?S:loclibpth:
?S: This variable holds the paths (space-separated) used to find local
?S: libraries.  It is prepended to libpth, and is intended to be easily
?S: set from the command line.
?S:.
?S:plibpth:
?S: Holds the private path used by Configure to find out the libraries.
?S: Its value is prepend to libpth. This variable takes care of special
?S: machines, like the mips.  Usually, it should be empty.
?S:.
?T: xxx dlist
?LINT:use usrinc
?INIT:: change the next line if compiling for Xenix/286 on Xenix/386
?INIT:xlibpth='/usr/lib/386 /lib/386'
?INIT:: Possible local library directories to search.
?INIT:loclibpth="/usr/local/lib /opt/local/lib /usr/gnu/lib"
?INIT:loclibpth="$loclibpth /opt/gnu/lib /usr/GNU/lib /opt/GNU/lib"
?INIT:
?INIT:: general looking path for locating libraries
?INIT:glibpth="/lib /usr/lib $xlibpth"
?INIT:glibpth="$glibpth /usr/ccs/lib /usr/ucblib /usr/local/lib"
```

```
?X: /shlib
 is for Digital Unix 4.0
?X: /usr/shlib is for OSF/1 systems.
?INIT:test -f /usr/shlib/libc.so && glibpth="/usr/shlib $glibpth"
?INIT:test -f /shlib/libc.so     && glibpth="/shlib $glibpth"
?INIT:
?INIT:: Private path used by Configure to find libraries.  Its value
?INIT:: is prepended to libpth. This variable takes care of special
?INIT:: machines, like the mips.  Usually, it should be empty.
?INIT:plibpth="
?INIT:
: Set private lib path
case "$plibpth" in
") if ./mips; then
?X: on mips, we DO NOT want /lib, and we want $incpath/usr/lib
  plibpth="$incpath/usr/lib /usr/local/lib /usr/ccs/lib"
 fi;;
esac
case "$libpth" in
' ') dlist=";;
") dlist="$loclibpth $plibpth $glibpth";;
*) dlist="$libpth";;
esac

: Now check and see which directories actually exist, avoiding duplicates
libpth="
for xxx in $dlist
do
   if $test -d $xxx; then
  case " $libpth " in
  *" $xxx "*) ;;
  *) libpth="$libpth $xxx";;
  esac
   fi
done
$cat <<'EOM'

Some systems have incompatible or broken versions
 of libraries.  Among
the directories listed in the question below, please remove any you
know not to be holding relevant libraries, and add any that are needed.
Say "none" for none.

EOM
case "$libpth" in
") dflt='none';;
*)
?X: strip leading space
```

```
 set X $libpth
 shift
 dflt=${1+"$@"}
 ;;
esac
rp="Directories to use for library searches?"
. ./myread
case "$ans" in
none) libpth=' ';;
*) libpth="$ans";;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/libpth.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_systypes.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_systypes.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:41  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Look wether <sys/types.h> needs to be included.
?X:
?MAKE:i_systypes: Inhdr
?MAKE: -pick add $@ %<
?S:i_systypes:
?S: This variable conditionally defines the I_SYS_TYPES symbol,
?S: and indicates whether a C program should include <sys/types.h>.
?S:.
?C:I_SYS_TYPES (I_SYSTYPES):
?C: This symbol, if defined, indicates to the C program
 that it should
?C: include <sys/types.h>.
?C:.
?H:#$i_systypes I_SYS_TYPES  /**/
?H:.
?LINT:set i_systypes
```

```
: see if sys/types.h has to be included
set sys/types.h i_systypes
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_systypes.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libpth.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libpth.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  16:08:49  ram
?RCS: patch61: new loclibpth variable
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:31:30  ram
?RCS: patch45: call ./mips instead of just mips (WED)
?RCS:
?RCS: Revision 3.0.1.4  1994/08/29  16:29:15  ram
?RCS: patch32: added /lib/pa1.1 for HP-UX specially tuned PA-RISC libs (ADO)
?RCS: patch32: fixed information message, making it clearer (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:03:54
  ram
?RCS: patch30: added /usr/shlib to glibpth for shared-only libraries
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:26:57  ram
?RCS: patch27: fixed a typo (libpth -> glibpth)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:07:53  ram
?RCS: patch23: now asks for library directories to be searched (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit initializes the path for C library lookup.
?X:
?MAKE:libpth glibpth xlibpth plibpth loclibpth incpth: \
 usrinc incpath test cat Myread Oldconfig sysroot osname \
```

```
 ccname echo cppstdin awk grep sed rm usecrosscompile
?MAKE: -pick add $@ %<
?S:libpth:
?S: This variable holds the general path (space-separated) used to find
?S: libraries. It is intended to be used by other units.
?S:.
?S:glibpth:
?S: This variable holds the general path (space-separated) used to
?S: find libraries.  It may contain directories that do not exist on
?S: this platform, libpth is the cleaned-up
 version.
?S:.
?S:xlibpth:
?S: This variable holds extra path (space-separated) used to find
?S: libraries on this platform, for example CPU-specific libraries
?S: (on multi-CPU platforms) may be listed here.
?S:.
?S:loclibpth:
?S: This variable holds the paths (space-separated) used to find local
?S: libraries.  It is prepended to libpth, and is intended to be easily
?S: set from the command line.
?S:.
?S:plibpth:
?S: Holds the private path used by Configure to find out the libraries.
?S: Its value is prepend to libpth. This variable takes care of special
?S: machines, like the mips.  Usually, it should be empty.
?S:.
?S:incpth:
?S: This variable must precede the normal include path to get the
?S: right one, as in "$incpath/usr/include" or "$incpath/usr/lib".
?S: Value can be "" or "/bsd43" on mips.
?S:.
?T: xxx dlist i j croak realpath inclibpth
?LINT:extern incpth
?LINT:change usrinc
?INIT:: change the next line if compiling for Xenix/286 on Xenix/386
?INIT:xlibpth='/usr/lib/386
 /lib/386'
?INIT:: Possible local library directories to search.
?INIT:loclibpth="/usr/local/lib /opt/local/lib /usr/gnu/lib"
?INIT:loclibpth="$loclibpth /opt/gnu/lib /usr/GNU/lib /opt/GNU/lib"
?INIT:
?INIT:: general looking path for locating libraries
?INIT:glibpth="/lib /usr/lib $xlibpth"
?INIT:glibpth="$glibpth /usr/ccs/lib /usr/ucblib /usr/local/lib"
?X: /shlib is for Digital Unix 4.0
?X: /usr/shlib is for OSF/1 systems.
?INIT:test -f /usr/shlib/libc.so && glibpth="/usr/shlib $glibpth"
```

```
?INIT:test -f /shlib/libc.so     && glibpth="/shlib $glibpth"
?INIT:test -d /usr/lib64         && glibpth="$glibpth /lib64 /usr/lib64 /usr/local/lib64"
?INIT:
?INIT:: Private path used by Configure to find libraries.  Its value
?INIT:: is prepended to libpth. This variable takes care of special
?INIT:: machines, like the mips.  Usually, it should be empty.
?INIT:plibpth=''
?INIT:
?X:cppfilter is later used in Findhdr.U, but we not want to expose it to config.h
?T:cppfilter
: Adjust cppfilter for path
 component separator
case "$osname" in
vos) cppfilter="tr '\\\\>' '/' |" ;; # path component separator is >
os2) cppfilter="sed -e 's|\\\\\\\\\|/|g' |" ;; # path component separator is \
*)   cppfilter='' ;;
esac

: Use gcc to determine libpth and incpth
# If using gcc or clang, we can get better values for libpth, incpth
# and usrinc directly from the compiler.
# Note that ccname for clang is also gcc.
case "$ccname" in
   gcc)
 realpath=`which realpath 2>/dev/null | sed 's/no realpath in.*//'`
 $echo 'extern int foo;' > try.c
 set X `$cppstdin -v try.c 2>&1 | $awk '/^#include </,/^End of search /'|$cppfilter $grep '/include'`
 shift
 inclibpth=''
 if $test $# -gt 0; then
     for i in $*; do
  case $realpath in
      */realpath) i=`$realpath $i` ;;
  esac
  incpth="$incpth $i"
  j="`$echo $i | $sed 's,/include[^/]*,/lib,'`"
  if $test -d $j; then
      inclibpth="$inclibpth $j"
  fi
     done
     incpth="`$echo $incpth | $sed 's/^ //'`"
     for xxx in $inclibpth $loclibpth $plibpth
 $glibpth; do
  if $test -d $xxx; then
      case $realpath in
   */realpath) xxx=`$realpath $xxx` ;;
      esac
      case " $libpth " in
```

```
      *" $xxx "*) ;;
      *) libpth="$libpth $xxx";;
      esac
  fi
    done
    libpth="`$echo $libpth | $sed 's/^ //'`"
 fi
 $rm -f try.c
 case "$usrinc" in
 ") for i in $incpth; do
  if $test -f $i/errno.h -a -f $i/stdio.h -a -f $i/time.h; then
      usrinc="$i"
      break
  fi
    done
    ;;
 esac

 case "$usecrosscompile" in
 $define|true|[yY]*)
    case "$incpth" in
  ") echo "Incpth not defined." >&4; croak=y ;;
  *)  echo "Using incpth '$incpth'." >&4 ;;
    esac
    case "$libpth" in
  ") echo "Libpth not defined." >&4; croak=y ;;
  *)  echo "Using libpth '$libpth'." >&4 ;;
    esac
    case "$usrinc" in
  ") echo "Usrinc not defined." >&4; croak=y ;;
  *)  echo "Using usrinc $usrinc." >&4 ;;
    esac
    case "$croak" in
  y)
  if test "X$sysroot" = X; then
      echo "Cannot continue, aborting." >&4; exit 1
  else

    echo "Cross-compiling using sysroot $sysroot, failing to guess inc/lib paths is not fatal" >&4
  fi
  ;;
    esac
    ;;
 esac
   ;;
esac

: Default value for incpth is just usrinc
```

```
case "$incpth" in
") incpth="$usrinc";;
esac

: Set private lib path
case "$plibpth" in
") if ./mips; then
?X: on mips, we DO NOT want /lib, and we want $incpath/usr/lib
 plibpth="$incpath/usr/lib $sysroot/usr/local/lib $sysroot/usr/ccs/lib"
   fi;;
esac
case "$libpth" in
' ') dlist=";;
") dlist="$loclibpth $plibpth $glibpth";;
*) dlist="$libpth";;
esac

: Now check and see which directories actually exist, avoiding duplicates
for xxx in $dlist
do
   if $test -d $xxx; then
  case " $libpth " in
  *" $xxx "*) ;;
  *) libpth="$libpth $xxx";;
  esac
   fi
done
$cat <<'EOM'

Some systems have incompatible or broken versions of libraries.  Among
the directories listed in the question below, please remove any you
know not to be holding relevant libraries, and add any that are needed.
Say "none" for none.

EOM

if
 test "X$sysroot" != X; then
   $cat <<EOM
You have set sysroot to $sysroot, please supply the directories excluding sysroot

EOM
fi

case "$libpth" in
") dflt='none';;
*)
?X: strip leading space
```

```
 set X $libpth
 shift
 dflt=${1+"$@"}
 ;;
esac
rp="Directories to use for library searches?"
. ./myread
case "$ans" in
none) libpth=' ';;
*) libpth="$ans";;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/libpth.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Nothing.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Nothing.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this file is to supply an empty target for the private
?X: Makefile built by metaconfig to order the units.
?X:
?MAKE:Nothing: Head
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Nothing.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setruid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setruid.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setruid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setruid:
?S: This variable conditionally defines the HAS_SETRUID symbol, which
?S: indicates to the C program that the setruid() routine is available
?S: to change the real uid of the current program.
?S:.
?C:HAS_SETRUID (SETRUID):
?C: This symbol, if defined, indicates that the setruid
 routine is available
?C: to change the real uid of the current program.
?C:.
?H:#$d_setruid HAS_SETRUID  /**/
?H:.
?LINT:set d_setruid
: see if setruid exists
set setruid d_setruid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setruid.U
No license file was found, but licenses were detected in source scan.

```
#  You may redistribute only under the terms of the Artistic Licence,
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/files/fixcpp
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/lib/errnolist.mk
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/makegloss
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/bindex
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Whoa.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:21:21  ram
?RCS: patch61: whoa script now starts with leading "startsh"
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:02:01  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to warn the user in case a change into a variable is noticed.
?X:
?X: To use this
 unit, $was must hold the old value that has changed. Upon
?X: exit, the two variables $td and $tu are set to the correct value for
?X: respectively defining or undefining a variable. For instance, if $vas was
?X: $undef, but now $var is $define, after calling . whoa, you should use
?X: eval "$var=\$tu" to finally set $var to the correct value. See unit Inlibc.
?X:
?MAKE:Whoa: Myread startsh hint
?MAKE: -pick add $@ %<
?F:./whoa
?T:var was
?LINT:change td tu
: set up the script used to warn in case of inconsistency
cat <<EOS >whoa
$startsh
EOS
cat <<'EOSC' >>whoa
dflt=y
echo " "
echo "*** WHOA THERE!!! ***" >&4
echo "    The $hint value for \$$var on this machine was \"$was\"!" >&4
rp="    Keep the $hint value?"
. ./myread
case "$ans" in
y) td=$was; tu=$was;;
esac
EOSC
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Whoa.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_stdstdio.U,v 3.0.1.3 1997/02/28 15:46:32 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Tye McQueen <tye@metronet.com>
?RCS:
?RCS: $Log: d_stdstdio.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:46:32  ram
?RCS: patch61: merged with perl5's unit
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  14:06:54  ram
?RCS: patch56: typo fix on ?C: line for FILE_bufsiz
?RCS: patch56: fixed unbalanced parenthesis (ADO)
?RCS: patch56: check whether FILE_cnt and FILE_ptr can be assigned to (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1995/05/12  12:12:11  ram
?RCS:
 patch54: complete rewrite by Tye McQueen to fit modern systems
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_stdstdio d_stdiobase stdio_ptr stdio_cnt \
 d_stdio_ptr_lval_sets_cnt d_stdio_ptr_lval_nochange_cnt stdio_base \
 stdio_bufsiz d_stdio_cnt_lval d_stdio_ptr_lval stdio_filbuf: cat \
 Compile contains rm_try d_gnulibc gnulibc_version i_stdlib \
 Setvar Findhdr Oldconfig run to
?MAKE: -pick weed $@ %<
?S:d_stdstdio:
?S: This variable conditionally defines USE_STDIO_PTR if this system
?S: has a FILE structure declaring usable _ptr and _cnt fields (or
?S: equivalent) in stdio.h.
?S:.
?S:stdio_ptr:
?S: This variable defines how, given a FILE pointer, fp, to access the
?S: _ptr field (or equivalent) of stdio.h's FILE structure.  This will
```

?S: be used to define the macro FILE_ptr(fp).
?S:.
?S:d_stdio_ptr_lval:
?S: This variable conditionally defines STDIO_PTR_LVALUE if the
?S: FILE_ptr macro can be used as an lvalue.
?S:.
?S:stdio_cnt:
?S: This
variable defines how, given a FILE pointer, fp, to access the
?S: _cnt field (or equivalent) of stdio.h's FILE structure. This will
?S: be used to define the macro FILE_cnt(fp).
?S:.
?S:d_stdio_cnt_lval:
?S: This variable conditionally defines STDIO_CNT_LVALUE if the
?S: FILE_cnt macro can be used as an lvalue.
?S:.
?S:d_stdio_ptr_lval_sets_cnt:
?S: This symbol is defined if using the FILE_ptr macro as an lvalue
?S: to increase the pointer by n has the side effect of decreasing the
?S: value of File_cnt(fp) by n.
?S:.
?S:d_stdio_ptr_lval_nochange_cnt:
?S: This symbol is defined if using the FILE_ptr macro as an lvalue
?S: to increase the pointer by n leaves File_cnt(fp) unchanged.
?S:.
?S:stdio_filbuf:
?S: This variable defines how, given a FILE pointer, fp, to tell
?S: stdio to refill its internal buffers (?). This will
?S: be used to define the macro FILE_filbuf(fp).
?S:.
?S:d_stdiobase:
?S: This variable conditionally defines USE_STDIO_BASE if this system
?S: has
a FILE structure declaring a usable _base field (or equivalent)
?S: in stdio.h.
?S:.
?S:stdio_base:
?S: This variable defines how, given a FILE pointer, fp, to access the
?S: _base field (or equivalent) of stdio.h's FILE structure. This will
?S: be used to define the macro FILE_base(fp).
?S:.
?S:stdio_bufsiz:
?S: This variable defines how, given a FILE pointer, fp, to determine
?S: the number of bytes store in the I/O buffer pointer to by the
?S: _base field (or equivalent) of stdio.h's FILE structure. This will
?S: be used to define the macro FILE_bufsiz(fp).
?S:.
?C:USE_STDIO_PTR ~ d_stdstdio (USE_STD_STDIO STDSTDIO):

```
?C: This symbol is defined if the _ptr and _cnt fields (or similar)
?C: of the stdio FILE structure can be used to access the stdio buffer
?C: for a file handle.  If this is defined, then the FILE_ptr(fp)
?C: and FILE_cnt(fp) macros will also be defined and should be used
?C: to access these fields.
?C:.
?C:FILE_ptr:
?C: This macro is used to access the _ptr
 field (or equivalent) of the
?C: FILE structure pointed to by its argument. This macro will always be
?C: defined if USE_STDIO_PTR is defined.
?C:.
?C:STDIO_PTR_LVALUE:
?C: This symbol is defined if the FILE_ptr macro can be used as an
?C: lvalue.
?C:.
?C:FILE_cnt:
?C: This macro is used to access the _cnt field (or equivalent) of the
?C: FILE structure pointed to by its argument. This macro will always be
?C: defined if USE_STDIO_PTR is defined.
?C:.
?C:STDIO_CNT_LVALUE:
?C: This symbol is defined if the FILE_cnt macro can be used as an
?C: lvalue.
?C:.
?C:STDIO_PTR_LVAL_SETS_CNT:
?C: This symbol is defined if using the FILE_ptr macro as an lvalue
?C: to increase the pointer by n has the side effect of decreasing the
?C: value of File_cnt(fp) by n.
?C:.
?C:STDIO_PTR_LVAL_NOCHANGE_CNT:
?C: This symbol is defined if using the FILE_ptr macro as an lvalue
?C: to increase the pointer by n leaves File_cnt(fp) unchanged.
?C:.
?C:FILE_filbuf:
?C: This macro is used to access the internal stdio
 _filbuf function
?C: (or equivalent), if STDIO_CNT_LVALUE and STDIO_PTR_LVALUE
?C: are defined.  It is typically either _filbuf or __filbuf.
?C: This macro will only be defined if both STDIO_CNT_LVALUE and
?C: STDIO_PTR_LVALUE are defined.
?C:.
?H:?d_stdstdio:#$d_stdstdio USE_STDIO_PTR /**/
?H:?d_stdstdio:#ifdef USE_STDIO_PTR
?H:#define FILE_ptr(fp) $stdio_ptr
?H:#$d_stdio_ptr_lval STDIO_PTR_LVALUE  /**/
?H:#define FILE_cnt(fp) $stdio_cnt
?H:#$d_stdio_cnt_lval STDIO_CNT_LVALUE  /**/
```

```
?H:#$d_stdio_ptr_lval_sets_cnt STDIO_PTR_LVAL_SETS_CNT /**/
?H:#$d_stdio_ptr_lval_nochange_cnt STDIO_PTR_LVAL_NOCHANGE_CNT /**/
?H:?FILE_filbuf:#if defined(STDIO_PTR_LVALUE) && defined(STDIO_CNT_LVALUE)
?H:?FILE_filbuf:#define FILE_filbuf(fp) $stdio_filbuf  /**/
?H:?FILE_filbuf:#endif
?H:?d_stdstdio:#endif
?H:.
?W:d_stdstdio:FILE_ptr FILE_cnt FILE_filbuf
?C:USE_STDIO_BASE ~ d_stdiobase:
?C: This symbol is defined if the _base field (or similar) of the
?C: stdio FILE structure can be used to access the
 stdio buffer for
?C: a file handle.  If this is defined, then the FILE_base(fp) macro
?C: will also be defined and should be used to access this field.
?C: Also, the FILE_bufsiz(fp) macro will be defined and should be used
?C: to determine the number of bytes in the buffer.  USE_STDIO_BASE
?C: will never be defined unless USE_STDIO_PTR is.
?C:.
?C:FILE_base:
?C: This macro is used to access the _base field (or equivalent) of the
?C: FILE structure pointed to by its argument. This macro will always be
?C: defined if USE_STDIO_BASE is defined.
?C:.
?C:FILE_bufsiz:
?C: This macro is used to determine the number of bytes in the I/O
?C: buffer pointed to by _base field (or equivalent) of the FILE
?C: structure pointed to its argument. This macro will always be defined
?C: if USE_STDIO_BASE is defined.
?C:.
?H:?d_stdiobase:#$d_stdiobase USE_STDIO_BASE /**/
?H:?d_stdiobase:#ifdef USE_STDIO_BASE
?H:#define FILE_base(fp) $stdio_base
?H:#define FILE_bufsiz(fp) $stdio_bufsiz
?H:?d_stdiobase:#endif
?H:.
?W:d_stdiobase:FILE_base
 FILE_bufsiz
?T:ptr_lval cnt_lval filbuf xxx
?F:!try
?LINT:set d_stdstdio d_stdiobase
: see if _ptr and _cnt from stdio act std
echo " "

if $contains '_lbfsize' `./findhdr stdio.h` >/dev/null 2>&1 ; then
 echo "(Looks like you have stdio.h from BSD.)"
 case "$stdio_ptr" in
 ") stdio_ptr='((fp)->_p)'
  ptr_lval=$define
```

```
  ;;
 *) ptr_lval=$d_stdio_ptr_lval;;
 esac
 case "$stdio_cnt" in
 ") stdio_cnt='((fp)->_r)'
  cnt_lval=$define
  ;;
 *) cnt_lval=$d_stdio_cnt_lval;;
 esac
 case "$stdio_base" in
 ") stdio_base='((fp)->_ub._base ? (fp)->_ub._base : (fp)->_bf._base)';;
 esac
 case "$stdio_bufsiz" in
 ") stdio_bufsiz='((fp)->_ub._base ? (fp)->_ub._size : (fp)->_bf._size)';;
 esac
elif $contains '_IO_fpos_t' `./findhdr stdio.h` `./findhdr libio.h` >/dev/null 2>&1 ; then
 echo "(Looks like you have stdio.h from Linux.)"
 case "$stdio_ptr" in
 ") stdio_ptr='((fp)->_IO_read_ptr)'
  ptr_lval=$define
  ;;
 *) ptr_lval=$d_stdio_ptr_lval;;
 esac
 case "$stdio_cnt"
 in
 ") stdio_cnt='((fp)->_IO_read_end - (fp)->_IO_read_ptr)'
  cnt_lval=$undef
  ;;
 *) cnt_lval=$d_stdio_cnt_lval;;
 esac
 case "$stdio_base" in
 ") stdio_base='((fp)->_IO_read_base)';;
 esac
 case "$stdio_bufsiz" in
 ") stdio_bufsiz='((fp)->_IO_read_end - (fp)->_IO_read_base)';;
 esac
else
 case "$stdio_ptr" in
 ") stdio_ptr='((fp)->_ptr)'
  ptr_lval=$define
  ;;
 *) ptr_lval=$d_stdio_ptr_lval;;
 esac
 case "$stdio_cnt" in
 ") stdio_cnt='((fp)->_cnt)'
  cnt_lval=$define
  ;;
 *) cnt_lval=$d_stdio_cnt_lval;;
```

```
 esac
 case "$stdio_base" in
 ") stdio_base='((fp)->_base)';;
 esac
 case "$stdio_bufsiz" in
 ") stdio_bufsiz='((fp)->_cnt + (fp)->_ptr - (fp)->_base)';;
 esac
fi

: test whether _ptr and _cnt really work
echo "Checking how std your stdio is..." >&4
$cat >try.c <<EOP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#define FILE_ptr(fp) $stdio_ptr
#define FILE_cnt(fp) $stdio_cnt
int main() {
 FILE *fp = fopen("try.c", "r");
 char c = getc(fp);
 if
 (
  18 <= FILE_cnt(fp) &&
  strncmp(FILE_ptr(fp), "include <stdio.h>\n", 18) == 0
 )
  exit(0);
 exit(1);
}
EOP
val="$undef"
set try
if eval $compile && $to try.c; then
 if $run ./try; then
  echo "Your stdio acts pretty std."
  val="$define"
 else
  echo "Your stdio isn't very std."
 fi
else
 echo "Your stdio doesn't appear very std."
fi
$rm_try

# glibc 2.2.90 and above apparently change stdio streams so Perl's
# direct buffer manipulation no longer works.  The Configure tests
# should be changed to correctly detect this, but until then,
```

```
# the following check should at least let perl compile and run.
# (This quick fix should be updated before 5.8.1.)
# To be defensive, reject all unknown versions, and all versions  > 2.2.9.
# A. Dougherty, June 3, 2002.
case "$d_gnulibc" in
$define)
 case "$gnulibc_version" in
 2.[01]*)  ;;
 2.2) ;;
 2.2.[0-9]) ;;
 *)  echo "But I will not snoop inside glibc $gnulibc_version stdio buffers."
  val="$undef"
  ;;
 esac
 ;;
esac
set d_stdstdio
eval
 $setvar

@if STDIO_PTR_LVALUE || d_stdio_ptr_lval
: Can _ptr be used as an lvalue?
?X: Only makes sense if we have a known stdio implementation.
case "$d_stdstdio$ptr_lval" in
$define$define) val=$define ;;
*) val=$undef ;;
esac
set d_stdio_ptr_lval
eval $setvar
@end

@if STDIO_CNT_LVALUE || d_stdio_cnt_lval
: Can _cnt be used as an lvalue?
?X: Only makes sense if we have a known stdio implementation.
case "$d_stdstdio$cnt_lval" in
$define$define) val=$define ;;
*) val=$undef ;;
esac
set d_stdio_cnt_lval
eval $setvar
@end

@if FILE_filbuf
: How to access the stdio _filbuf or __filbuf function.
: If this fails, check how the getc macro in stdio.h works.
case "${d_stdio_ptr_lval}${d_stdio_cnt_lval}" in
${define}${define})
 : Try $hint value, if any, then _filbuf, __filbuf, _fill, then punt.
```

```
 : _fill is for os/2.
 xxx='notok'
 for filbuf in $stdio_filbuf '_filbuf(fp)' '__filbuf(fp) ' '_fill(fp)' ; do
  $cat >try.c <<EOP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#define
 FILE_ptr(fp) $stdio_ptr
#define FILE_cnt(fp) $stdio_cnt
#define FILE_filbuf(fp) $filbuf
int main() {
 FILE *fp = fopen("try.c", "r");
 int c;
 c = getc(fp);
 c = FILE_filbuf(fp);  /* Just looking for linker errors.*/
 exit(0);
}
EOP
  set try
  if eval $compile && $to try.c && $run ./try; then
   echo "Your stdio appears to use $filbuf"
   stdio_filbuf="$filbuf"
   xxx='ok'
   break
  else
   echo "Hmm.  $filbuf doesn't seem to work."
  fi
  $rm_try
 done
 case "$xxx" in
 notok) echo "I can't figure out how to access _filbuf"
   echo "I'll just have to work around it."
   d_stdio_ptr_lval="$undef"
   d_stdio_cnt_lval="$undef"
   ;;
 esac
 ;;
esac
@end

@if STDIO_PTR_LVALUE
: test whether setting _ptr sets _cnt as a side effect
d_stdio_ptr_lval_sets_cnt="$undef"
d_stdio_ptr_lval_nochange_cnt="$undef"
case "$d_stdio_ptr_lval$d_stdstdio" in
```

```
$define$define)
 echo "Checking to see what happens if we set the stdio ptr..." >&4
$cat >try.c <<EOP
#include <stdio.h>
/* Can
 we scream? */
/* Eat dust sed :-) */
/* In the buffer space, no one can hear you scream. */
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#define FILE_ptr(fp) $stdio_ptr
#define FILE_cnt(fp) $stdio_cnt
#include <sys/types.h>
int main() {
 FILE *fp = fopen("try.c", "r");
 int c;
 char *ptr;
 size_t cnt;
 if (!fp) {
     puts("Fail even to read");
     exit(1);
 }
 c = getc(fp); /* Read away the first # */
 if (c == EOF) {
     puts("Fail even to read");
     exit(1);
 }
 if (!(
  18 <= FILE_cnt(fp) &&
  strncmp(FILE_ptr(fp), "include <stdio.h>\n", 18) == 0
 )) {
  puts("Fail even to read");
  exit (1);
 }
 ptr = (char*) FILE_ptr(fp);
 cnt = (size_t)FILE_cnt(fp);

 FILE_ptr(fp) += 42;

 if ((char*)FILE_ptr(fp) != (ptr + 42)) {
  printf("Fail ptr check %p != %p", FILE_ptr(fp), (ptr + 42));
  exit (1);
 }
 if (FILE_cnt(fp) <= 20) {
  printf ("Fail (<20 chars to test)");
  exit (1);
```

```
 }
 if (strncmp(FILE_ptr(fp), "Eat dust sed :-) */\n", 20) != 0) {
  puts("Fail compare");
  exit
 (1);
 }
 if (cnt == FILE_cnt(fp)) {
  puts("Pass_unchanged");
  exit (0);
 }
 if (FILE_cnt(fp) == (cnt - 42)) {
  puts("Pass_changed");
  exit (0);
 }
 printf("Fail count was %d now %d\n", cnt, FILE_cnt(fp));
 return 1;

}
EOP
 set try
 if eval $compile && $to try.c; then
  case `$run ./try` in
  Pass_changed)
   echo "Increasing ptr in your stdio decreases cnt by the same amount.  Good." >&4
   d_stdio_ptr_lval_sets_cnt="$define" ;;
  Pass_unchanged)
   echo "Increasing ptr in your stdio leaves cnt unchanged.  Good." >&4
   d_stdio_ptr_lval_nochange_cnt="$define" ;;
  Fail*)
   echo "Increasing ptr in your stdio didn't do exactly what I expected.  We'll not be doing that then." >&4 ;;
  *)
   echo "It appears attempting to set ptr in your stdio is a bad plan." >&4 ;;
 esac
 else
  echo "It seems we can't set ptr in your stdio.  Nevermind." >&4
 fi
 $rm_try
 ;;
esac
@end

@if d_stdiobase || USE_STDIO_BASE || FILE_base || FILE_bufsiz
: see if _base is also standard
val="$undef"
case
 "$d_stdstdio" in
$define)
 $cat >try.c <<EOP
```

```
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#define FILE_base(fp) $stdio_base
#define FILE_bufsiz(fp) $stdio_bufsiz
int main() {
 FILE *fp = fopen("try.c", "r");
 char c = getc(fp);
 if (
  19 <= FILE_bufsiz(fp) &&
  strncmp(FILE_base(fp), "#include <stdio.h>\n", 19) == 0
 )
  exit(0);
 exit(1);
}
EOP
 set try
 if eval $compile && $to try.c; then
  if $run ./try; then
   echo "And its _base field acts std."
   val="$define"
  else
   echo "But its _base field isn't std."
  fi
 else
  echo "However, it seems to be lacking the _base field."
 fi
 $rm_try
 ;;
esac
set d_stdiobase
eval $setvar

@end
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_stdstdio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: ccflags.U,v $
?RCS: Revision 3.0.1.9  1997/02/28  15:27:07  ram
?RCS: patch61: removed support for NO_PROTOTYPE detection on SCO
?RCS: patch61: new locincpth variable
?RCS: patch61: added info on the "additional ld flags" question
?RCS:
?RCS: Revision 3.0.1.8  1995/07/25  13:48:54  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.7  1995/05/12  12:08:33  ram
?RCS: patch54: now checks for cc/ccflags/ldflags coherency
?RCS:
?RCS: Revision 3.0.1.6
  1994/10/29  16:07:02  ram
?RCS: patch36: gcc versioning no longer relies on the C compiler's name
?RCS: patch36: simplified check for gcc version checking (ADO)
?RCS:
?RCS: Revision 3.0.1.5  1994/08/29  16:06:35  ram
?RCS: patch32: propagate -posix flag from ccflags to ldflags
?RCS:
?RCS: Revision 3.0.1.4  1994/05/06  14:28:45  ram
?RCS: patch23: -fpcc-struct-return only needed in gcc 1.x (ADO)
?RCS: patch23: cppflags now computed on an option-by-option basis
?RCS: patch23: magically added cc flags now only done the first time
?RCS:
?RCS: Revision 3.0.1.3  1993/09/13  15:58:29  ram
?RCS: patch10: explicitly mention -DDEBUG just in case they need it (WAD)
?RCS: patch10: removed all the "tans" variable usage (WAD)
?RCS:
?RCS: Revision 3.0.1.2  1993/08/27  14:39:38  ram
?RCS: patch7: added support for OSF/1 machines
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:00:24  ram
?RCS: patch6: added defaults for cppflags, ccflags and ldflags
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:31  ram
?RCS:
 Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:ccflags ldflags lkflags cppflags optimize locincpth: test cat \
 Myread Guess Options Oldconfig gccversion mips_type +usrinc \
 package contains rm rm_try +cc cppstdin cppminus cpprun cpplast libpth \
 loclibpth hint
?MAKE: -pick add $@ %<
```

```
?S:ccflags:
?S: This variable contains any additional C compiler flags desired by
?S: the user.  It is up to the Makefile to use this.
?S:.
?S:cppflags:
?S: This variable holds the flags that will be passed to the C pre-
?S: processor. It is up to the Makefile to use it.
?S:.
?S:optimize:
?S: This variable contains any optimizer/debugger flag that should be used.
?S: It is up to the Makefile to use it.
?S:.
?S:ldflags:
?S: This variable contains any additional C loader flags desired by
?S: the user.  It is up to the Makefile to use this.
?S:.
?S:lkflags:
?S: This variable contains any additional C partial linker flags desired by
?S: the user.  It is up to the Makefile to use this.
?S:.
?S:locincpth:
?S: This
 variable contains a list of additional directories to be
?S: searched by the compiler.  The appropriate -I directives will
?S: be added to ccflags.  This is intended to simplify setting
?S: local directories from the Configure command line.
?S: It's not much, but it parallels the loclibpth stuff in libpth.U.
?S:.
?T:inctest thisincl xxx flag inclwanted ftry previous thislibdir
?F:!cpp.c
?D:cppflags=''
?D:ccflags=''
?D:ldflags=''
?D:optimize=''
?INIT:: Possible local include directories to search.
?INIT:: Set locincpth to "" in a hint file to defeat local include searches.
?INIT:locincpth="/usr/local/include /opt/local/include /usr/gnu/include"
?INIT:locincpth="$locincpth /opt/gnu/include /usr/GNU/include /opt/GNU/include"
?INIT::
?INIT:: no include file wanted by default
?INIT:inclwanted=''
?INIT:
: determine optimize, if desired, or use for debug flag also
case "$optimize" in
' '|$undef) dflt='none';;
'')
 case "$gccversion" in
 '') dflt='-O';;
```

```
 *) dflt='-O2 -g';;
 esac
 ;;
*)
 dflt="$optimize";;
esac
case "$gccversion" in
") $cat <<EOH

Some C compilers have problems with their optimizers.  By default, $package
compiles with the -O flag to use the optimizer.  Alternately, you might want
to use the symbolic debugger, which uses the -g flag (on traditional Unix
systems).  Either flag can be specified here.  To use neither flag, specify
the word "none".

EOH
 ;;
*) $cat <<EOH

With the GNU C compiler, it is possible to supply both -O2 and -g flags, to
be able to reasonably optimize, whilst retaining the ability to use a
symbolic debugger.  Either flag can be specified here.  To use neither flag,
specify the word "none".

EOH
 ;;
esac
rp="What optimizer/debugger flag should be used?"
. ./myread
optimize="$ans"
case "$optimize" in
'none') optimize=" ";;
esac

dflt="
: We will not override a previous value, but we might want to
: augment a hint file
case "$hint" in
default|recommended)
 case "$gccversion" in
 1*) dflt='-fpcc-struct-return' ;;
 esac
?X:
 check for POSIXized ISC
 case "$gccversion" in
 2*) if test -d /etc/conf/kconfig.d &&
   $contains _POSIX_VERSION $usrinc/sys/unistd.h >/dev/null 2>&1
  then
```

```
   dflt="$dflt -posix"
  fi
  ;;
 esac
?X: turn warnings on if they're using gcc
 case "$gccversion" in
 1*|2*) dflt="$dflt -Wall";;
?X: starting with version 3, add "-W -Wall -Wformat=2 -Wshadow" by default
 *) dflt="$dflt -W -Wall -Wformat=2 -Wshadow";;
 esac
 ;;
esac

?X: In USG mode, a MIPS system may need some BSD includes
case "$mips_type" in
*BSD*|") inclwanted="$locincpth $usrinc";;
*) inclwanted="$locincpth $inclwanted $usrinc/bsd";;
esac
for thisincl in $inclwanted; do
 if $test -d $thisincl; then
  if $test x$thisincl != x$usrinc; then
   case "$dflt" in
   *$thisincl*);;
   *) dflt="$dflt -I$thisincl";;
   esac
  fi
 fi
done

?X: Include test function (header, symbol)
inctest='if $contains $2 $usrinc/$1 >/dev/null 2>&1; then
 xxx=true;
elif $contains $2 $usrinc/sys/$1 >/dev/null 2>&1; then
 xxx=true;
else
 xxx=false;
fi;
if
 $xxx; then
 case "$dflt" in
 *$2*);;
 *) dflt="$dflt -D$2";;
 esac;
fi'

?X:
?X: OSF/1 uses __LANGUAGE_C__ instead of LANGUAGE_C
?X:
```

```
if ./osf1; then
 set signal.h __LANGUAGE_C__; eval $inctest
else
 set signal.h LANGUAGE_C; eval $inctest
fi

case "$hint" in
default|recommended) dflt="$ccflags $dflt" ;;
*) dflt="$ccflags";;
esac

case "$dflt" in
"|' ') dflt=none;;
esac
$cat <<EOH

Your C compiler may want other flags.  For this question you should include
-I/whatever and -DWHATEVER flags and any other flags used by the C compiler,
but you should NOT include libraries or ld flags like -lwhatever.

To use no flags, specify the word "none".

EOH
?X: strip leading space
set X $dflt
shift
dflt=${1+"$@"}
rp="Any additional cc flags?"
. ./myread
case "$ans" in
none) ccflags="";;
*) ccflags="$ans";;
esac

: the following weeds options from ccflags that are of no interest to cpp
cppflags="$ccflags"
case "$gccversion" in
1*) cppflags="$cppflags -D__GNUC__"
esac
case "$mips_type" in
");;
*BSD*)
 cppflags="$cppflags -DSYSTYPE_BSD43";;
esac
case "$cppflags" in
");;
*)
 echo " "
```

```
 echo "Let me guess what the preprocessor flags are..." >&4
 set X $cppflags
 shift
 cppflags="
 $cat >cpp.c <<'EOM'
#define BLURFL foo

BLURFL xx LFRULB
EOM
?X:
?X: For each cc flag, try it out with both cppstdin and cpprun, since the
?X: first is almost surely a cc wrapper. We have to try both in case
?X: of cc flags like '-Olimit 2900' that are actually two words...
?X:
 previous="
 for flag in $*
 do
  case "$flag" in
  -*) ftry="$flag";;
  *) ftry="$previous $flag";;
  esac
  if $cppstdin -DLFRULB=bar $ftry $cppminus <cpp.c \
   >cpp1.out 2>/dev/null && \
   $cpprun -DLFRULB=bar $ftry $cpplast <cpp.c \
   >cpp2.out 2>/dev/null && \
   $contains 'foo.*xx.*bar' cpp1.out >/dev/null 2>&1 && \
   $contains 'foo.*xx.*bar' cpp2.out >/dev/null 2>&1
  then
   cppflags="$cppflags $ftry"
   previous="
  else
   previous="$flag"
  fi
 done
 set X $cppflags
 shift
 cppflags=${1+"$@"}
 case "$cppflags"
 in
 *-*)  echo "They appear to be: $cppflags";;
 esac
 $rm -f cpp.c cpp?.out
 ;;
esac

: flags used in final linking phase
case "$ldflags" in
") if ./venix; then
```

```
  dflt='-i -z'
 else
  dflt=''
 fi
 case "$ccflags" in
 *-posix*) dflt="$dflt -posix" ;;
 esac
 ;;
*) dflt="$ldflags";;
esac

: Try to guess additional flags to pick up local libraries.
for thislibdir in $libpth; do
 case " $loclibpth " in
 *" $thislibdir "*)
  case "$dflt " in
  *"-L$thislibdir "*) ;;
  *)  dflt="$dflt -L$thislibdir" ;;
  esac
  ;;
 esac
done

case "$dflt" in
'') dflt='none' ;;
*) set X $dflt; shift; dflt="$@";;
esac

$cat <<EOH

Your C linker may need flags.  For this question you should
include -L/whatever and any other flags used by the C linker, but you
should NOT include libraries like -lwhatever.

Make sure you include the appropriate -L/path flags if your C linker
does not normally search all of the directories you specified above,
namely
 $libpth
To use no flags, specify the word "none".

EOH

rp="Any
 additional ld flags (NOT including libraries)?"
. ./myread
case "$ans" in
none) ldflags='';;
*) ldflags="$ans";;
```

```
esac
rmlist="$rmlist pdp11"

@if lkflags
: partial linking may need other flags
case "$lkflags" in
") case "$ldflags" in
 ") dflt='none';;
 *) dflt="$ldflags";;
 esac;;
*) dflt="$lkflags";;
esac
echo " "
rp="Partial linking flags to be used (NOT including -r)?"
. ./myread
case "$ans" in
none) lkflags=";;
*) lkflags="$ans";;
esac

@end
?X:
?X: If the user changes compilers after selecting a hint file, it's
?X: possible that the suggested ccflags/ldflags will be wrong.  Try to
?X: compile and run a simple test program.  Let the user see all the
?X: error messages. -- ADO and RAM
?X:
: coherency check
echo " "
echo "Checking your choice of C compiler and flags for coherency..." >&4
?X: Strip extra blanks in case some of the following variables are empty
set X $cc $optimize $ccflags $ldflags -o try try.c
shift
$cat >try.msg <<EOM
I've tried to compile and run a simple program
 with:

 $*
 ./try

and I got the following output:

EOM
$cat > try.c <<'EOF'
#include <stdio.h>
int main() { exit(0); }
EOF
dflt=y
```

```
?X: Use "sh -c" to avoid error messages tagged with leading "Configure:".
?X: We need to try the resulting executable, because cc might yield a 0 status
?X: even when ld failed, in which case the executable will not run properly,
?X: if its x bit is set at all...
if sh -c "$cc $optimize $ccflags $ldflags -o try try.c" >>try.msg 2>&1; then
 if sh -c './try' >>try.msg 2>&1; then
  dflt=n
 else
  echo "The program compiled OK, but exited with status $?." >>try.msg
  rp="You have a problem.  Shall I abort Configure"
  dflt=y
 fi
else
 echo "I can't compile the test program." >>try.msg
 rp="You have a BIG problem.  Shall I abort Configure"
 dflt=y
fi
case "$dflt" in
y)
 $cat try.msg >&4
?X: using -K will prevent default aborting--maybe they're cross compiling?
 case "$knowitall" in
 ")
  echo "(The supplied flags might be incorrect with this C compiler.)"
  ;;
 *)
 dflt=n;;
 esac
 echo " "
 . ./myread
 case "$ans" in
 n*|N*) ;;
 *) echo "Ok.  Stopping Configure." >&4
  exit 1
  ;;
 esac
 ;;
n) echo "OK, that should do.";;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/ccflags.U
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:

```
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sitearch.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:21:30  ram
?RCS: patch61: created
?RCS:
?MAKE:sitearch sitearchexp installsitearch: afs cat Getfile \
 Oldconfig Prefixit prefix test archname sitelib
?MAKE: -pick add $@ %<
?Y:TOP
?S:sitearch:
?S: This variable contains the eventual value of the SITEARCH symbol,
?S: which is the name of the private library for this package.  It may
?S: have a ~ on the front. It is up to the makefile to eventually create
?S: this
 directory while performing installation (with ~ substitution).
?S:.
?S:sitearchexp:
?S: This variable is the ~name expanded version of sitearch, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?S:installsitearch:
?S: This variable is really the same as sitearchexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?C:SITEARCH:
?C: This symbol contains the name of the private library for this package.
?C: The library is private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.  The program
?C: should be prepared to do ~ expansion.
?C: The standard distribution will put nothing in this directory.
?C: Individual sites may place their own extensions and modules in
?C: this directory.
?C:.
?C:SITEARCH_EXP:
?C: This symbol contains the ~name expanded version of SITEARCH, to be used
?C: in programs that are not prepared to deal
 with ~ expansion at run-time.
?C:.
?H:#define SITEARCH "$sitearch"  /**/
```

```
?H:#define SITEARCH_EXP "$sitearchexp"  /**/
?H:.
?T:xxx
: determine where site specific architecture-dependent libraries go.
xxx=`echo $sitelib/$archname | sed 's!^$prefix!!'`
: xxx is usually lib/site_perl/archname.
set sitearch sitearch none
eval $prefixit
case "$sitearch" in
") dflt="$sitelib/$archname" ;;
*) dflt="$sitearch" ;;
esac
$cat <<EOM

The installation process will also create a directory for
architecture-dependent site-specific extensions and modules.

EOM
fn=nd~+
rp='Pathname for the site-specific architecture-dependent library files?'
. ./getfile
if $test "X$sitearchexp" != "X$ansexp"; then
 installsitearch="
fi
sitearch="$ans"
sitearchexp="$ansexp"
if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
private files reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case
 "$installsitearch" in
 ") dflt=`echo $sitearchexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installsitearch";;
 esac
 fn=de~
 rp='Where will private files be installed?'
 . ./getfile
 installsitearch="$ans"
else
 installsitearch="$sitearchexp"
fi

Found in path(s):
```

* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/sitearch.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_umask.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_umask.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:14:50  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_umask: Inlibc
?MAKE: -pick add $@ %<
?S:d_umask:
?S: This variable conditionally defines the HAS_UMASK symbol, which
?S: indicates to the C program that the umask() routine is available.
?S: to set and get the value of the file creation mask.
?S:.
?C:HAS_UMASK :
?C: This
 symbol, if defined, indicates that the umask routine is
?C: available to set and get the value of the file creation mask.
?C:.
?H:#$d_umask HAS_UMASK  /**/
?H:.
?LINT:set d_umask
: see if umask exists
set umask d_umask
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_umask.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_varhdr.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:54:42  ram
?RCS: patch61: varargs script now starts with leading "startsh"
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:21:02  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/13  15:26:05  ram
?RCS: patch27: this unit now supersedes old i_stdarg.U and i_varargs.U
?RCS: patch27: modified to avoid spurious Whoa warnings (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:49  ram
?RCS: Baseline for
 dist 3.0 netwide release.
?RCS:
?MAKE:i_stdarg i_varargs i_varhdr: cat +cc +ccflags rm test Setvar \
 Findhdr Warn startsh _o
?MAKE: -pick add $@ %<
?S:i_stdarg:
?S: This variable conditionally defines the I_STDARG symbol, which
?S: indicates to the C program that <stdarg.h> exists and should
?S: be included.
?S:.
?S:i_varargs:
?S: This variable conditionally defines I_VARARGS, which indicates
?S: to the C program that it should include <varargs.h>.
?S:.
?S:i_varhdr:
?S: Contains the name of the header to be included to get va_dcl definition.
?S: Typically one of varargs.h or stdarg.h.
?S:.
?C:I_STDARG:
?C: This symbol, if defined, indicates that <stdarg.h> exists and should
?C: be included.
?C:.
?C:I_VARARGS:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <varargs.h>.
?C:.
?H:#$i_stdarg I_STDARG  /**/
?H:#$i_varargs I_VARARGS /**/
?H:.
```

```
?W:%<:va_dcl
?F:!varargs
?T:valstd
?LINT:set i_stdarg i_varargs
?X:
?X: Don't use setvar because the varags test
 below might override these.
?X: Actually, the messages here are just informative. We don't wish to set
?X: i_varargs or i_stdarg to their final value before knowing which of the
?X: two we'll include.
?X:
: see if stdarg is available
echo " "
if $test `./findhdr stdarg.h`; then
 echo "<stdarg.h> found." >&4
 valstd="$define"
else
 echo "<stdarg.h> NOT found." >&4
 valstd="$undef"
fi

: see if varags is available
echo " "
if $test `./findhdr varargs.h`; then
 echo "<varargs.h> found." >&4
else
 echo "<varargs.h> NOT found, but that's ok (I hope)." >&4
fi

?X:
?X: if you have stdarg.h, you need to support prototypes to actually use it;
?X: but if stdarg.h exists and the compiler doesn't support prototypes (for some
?X: bizarre reason), we'll fall back to varargs.h anyway so it's not so bad.
?X:
: set up the varargs testing programs
$cat > varargs.c <<EOP
#ifdef I_STDARG
#include <stdarg.h>
#endif
#ifdef I_VARARGS
#include <varargs.h>
#endif

#ifdef I_STDARG
int f(char *p, ...)
#else
int
```

```
 f(va_alist)
va_dcl
#endif
{
 va_list ap;
#ifndef I_STDARG
 char *p;
#endif
#ifdef I_STDARG
 va_start(ap,p);
#else
 va_start(ap);
 p = va_arg(ap, char *);
#endif
 va_end(ap);
}
EOP
$cat > varargs <<EOP
$startsh
if $cc -c $ccflags -D\$1 varargs.c >/dev/null 2>&1; then
 echo "true"
else
 echo "false"
fi
$rm -f varargs$_o
EOP
chmod +x varargs

: now check which varargs header should be included
echo " "
i_varhdr=''
case "$valstd" in
"$define")
 if `./varargs I_STDARG`; then
  val='stdarg.h'
 elif `./varargs I_VARARGS`; then
  val='varargs.h'
 fi
 ;;
*)
 if `./varargs I_VARARGS`; then
  val='varargs.h'
 fi
 ;;
esac
case "$val" in
'')
 ./warn "I could not find the definition for va_dcl... You have problems..."
```

```
 val="$undef"; set i_stdarg; eval $setvar
 val="$undef"; set i_varargs; eval $setvar
 ;;
*)
 set i_varhdr
 eval $setvar
 case "$i_varhdr" in
 stdarg.h)
  val="$define"; set i_stdarg; eval $setvar
  val="$undef"; set i_varargs; eval $setvar
  ;;
 varargs.h)
  val="$undef"; set i_stdarg;
 eval $setvar
  val="$define"; set i_varargs; eval $setvar
  ;;
 esac
 echo "We'll include <$i_varhdr> to get va_dcl definition." >&4;;
esac
$rm -f varargs*
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_varhdr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Setvar.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Setvar.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  15:58:28  ram
?RCS: patch36: call ./whoa explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:16  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a variable that is intended to be eval'ed in
?X: order to define/undefine a symbol. A consistency check is made
?X: regarding any previous value and a warning is issued if there
?X: is any discrepancy.
```

```
?X:
?X:
 To use it, say:
?X: val=<value>
?X: set d_variable
?X: eval $setvar
?X:
?MAKE:Setvar: Whoa
?MAKE: -pick add $@ %<
?LINT:define setvar
?S:setvar:
?S: This shell variable is used internally by Configure to set a value
?S: to a given symbol that is defined or not. A typical use is:
?S: val=<value computed>
?S:  set d_variable
?S:  eval $setvar
?S: That will print a message in case the $val value is not the same
?S: as the previous value of $d_variable.
?S:.
?V:setvar:val
?T:var was td tu
: function used to set '$1' to '$val'
setvar='var=$1; eval "was=\$$1"; td=$define; tu=$undef;
case "$val$was" in
$define$undef) . ./whoa; eval "$var=\$td";;
$undef$define) . ./whoa; eval "$var=\$tu";;
*) eval "$var=$val";;
esac'
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Setvar.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: socksizetype.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:socksizetype: \
 Protochk Oldconfig Myread cat d_socket d_socklen_t sizetype \
 usesocks i_socks i_systypes extern_C
?MAKE: -pick add $@ %<
?S:socksizetype:
?S: This variable holds the type used for the size argument
?S: for various socket calls like accept.  Usual values include
```

```
?S: socklen_t, size_t, and int.
?S:.
?C:Sock_size_t:
?C: This symbol holds the type used for the size argument of
?C: various socket calls (just the base type, not the pointer-to).
?C:.
?H:#define Sock_size_t  $socksizetype /**/
?H:.
?T:xxx yyy try
@if Sock_size_t
: check for type of the size argument to socket calls
case "$d_socket" in
"$define")
 $cat <<EOM

Checking to see what type is the last argument
 of accept().
EOM
 yyy=''
 case "$d_socklen_t" in
 "$define") yyy="$yyy socklen_t"
 esac
 yyy="$yyy $sizetype int long unsigned"
 for xxx in $yyy; do
  case "$socksizetype" in
  '') try="$extern_C int accept(int, struct sockaddr *, $xxx *);"
   case "$usesocks" in
   "$define")
    if ./protochk "$try" $i_systypes sys/types.h $d_socket sys/socket.h literal '#define INCLUDE_PROTOTYPES'
$i_socks socks.h.; then
     echo "Your system accepts '$xxx *' for the last argument of accept()."
     socksizetype="$xxx"
    fi
    ;;
   *) if ./protochk "$try"  $i_systypes sys/types.h $d_socket sys/socket.h; then
     echo "Your system accepts '$xxx *' for the last argument of accept()."
     socksizetype="$xxx"
    fi
    ;;
   esac
   ;;
  esac
 done
: In case none of those worked, prompt the user.
 case "$socksizetype" in
 '') rp='What is the type for socket address structure sizes?'
  dflt='int'
  . ./myread
```

```
  socksizetype=$ans
  ;;
 esac
 ;;
*) : no sockets, so pick relatively harmless default
 socksizetype='int'
 ;;
esac
@end
```

Found
 in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/socksizetype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:sysroot: Head
?MAKE: -pick add $@ %<
?S:sysroot:
?S: This variable is empty unless supplied by the Configure user.
?S: It can contain a path to an alternative root directory, under which
?S: headers and libraries for the compilation target can be found. This
?S: is generally used when cross-compiling using a gcc-like compiler.
?S:.
?LINT:extern cc
?LINT:extern cppflags
?LINT:change cppflags
?LINT:extern ccflags
?LINT:change ccflags
?LINT:extern ldflags
?LINT:change ldflags
?LINT:extern cccdlflags
?X: _sysroot is later used in ccflags, but we do not want it in config.sh
?T:var xxx path _sysroot
: Set 'sysroot' to change the logical root directory to your headers and libraries see man gcc
: This is primarily meant for cross-compile environments, and
 may fail to be useful in other cases
if test "X$sysroot" = X; then
   sysroot=""
else
   case "$cc" in
 *gcc*|*g++*)
     echo "Using $sysroot to find your headers and libraries, adding to ccflags"
```

```
    # _sysroot is used in places where we need --sysroot=foo
    # but using the rest of the flags could cause issues.
    _sysroot="--sysroot=$sysroot";
    case "$ccflags" in
  *sysroot*) ;;
  'undef'|*)
  ccflags="$ccflags $_sysroot"
    esac
    case "$ldflags" in
  *sysroot*) ;;
  'undef'|*)
  ldflags="$ldflags $_sysroot"
    esac
    case "$cppflags" in
  *sysroot*) ;;
  'undef'|*)
  cppflags="$cppflags $_sysroot"
    esac
    # lddlflags updated below in lddlflags section;
    # same with cccdlflags
    ;;
   esac

   # Adjust some defaults to also use $sysroot
   for var in xlibpth loclibpth locincpth glibpth; do
 eval xxx=\$$var
 eval $var=''
 for path in $xxx; do
     eval $var=\"\$$var $sysroot$path\"
 done
   done

fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/Sysroot.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: archname.U,v 3.0.1.3 1997/02/28 15:24:32 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
?RCS: $Log: archname.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:24:32  ram
?RCS: patch61: changed the way the archname is mangled from uname
?RCS:
?RCS: Revision 3.0.1.2  1995/05/12  12:05:24  ram
?RCS: patch54: protect against spaces in "uname -m" output (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1995/02/15  14:14:21  ram
?RCS: patch51: created
?RCS:
?MAKE:archname myarchname useversionedarchname: sed Loc Myread Oldconfig \
 osname test rm usethreads usemultiplicity use64bitint
 use64bitall \
 archname64 uselongdouble longdblsize doublesize targetarch Setvar \
 api_versionstring usequadmath
?MAKE: -pick add $@ %<
?S:archname:
?S: This variable is a short name to characterize the current
?S: architecture.  It is used mainly to construct the default archlib.
?S:.
?S:myarchname:
?S: This variable holds the architecture name computed by Configure in
?S: a previous run. It is not intended to be perused by any user and
?S: should never be set in a hint file.
?S:.
?S:useversionedarchname:
?S: This variable indicates whether to include the $api_versionstring
?S: as a component of the $archname.
?S:.
?C:ARCHNAME:
?C: This symbol holds a string representing the architecture name.
?C: It may be used to construct an architecture-dependant pathname
?C: where library files may be held under a private library, for
?C: instance.
?C:.
?H:#define ARCHNAME "$archname"  /**/
?H:.
?T:xxx tarch
?F:!archname.cbu
?INIT:archname="
: determine the architecture name
echo " "
?X:
 We always recompute archname in case osname changes. However, we need
?X: to be careful since, as ADO rightfully pointed out, some systems pick
?X: silly architecture names (0001307135000-aix on AIX or 9000/715-ux under
?X: HP-UX). Therefore, we allow hint files to superseed our guess and ask
```

```
?X: the user for confirmation.
if xxx=`./loc arch blurfl $pth`; $test -f "$xxx"; then
 tarch=`arch`"-$osname"
elif xxx=`./loc uname blurfl $pth`; $test -f "$xxx" ; then
 if uname -m > tmparch 2>&1 ; then
  tarch=`$sed -e 's/ *$//' -e 's/ /_/g' \
   -e 's/$/"'-$osname/" tmparch`
 else
  tarch="$osname"
 fi
 $rm -f tmparch
else
 tarch="$osname"
fi
case "$myarchname" in
"|"$tarch") ;;
*)
 echo "(Your architecture name used to be $myarchname.)"
 archname=''
 ;;
esac
case "$targetarch" in
'') ;;
?X: Very GCCian.
*)  archname=`echo $targetarch|sed 's,^[^-]*-,,'` ;;
esac
myarchname="$tarch"
case "$archname" in
'') dflt="$tarch";;
*) dflt="$archname";;
esac
rp='What is your architecture name'
. ./myread
archname="$ans"

:
 optionally add API version to the architecture for versioned archlibs
case "$useversionedarchname" in
$define|true|[yY]*) dflt='y';;
*)                  dflt='n';;
esac
rp='Add the Perl API version to your archname?'
. ./myread
case "$ans" in
y|Y) useversionedarchname="$define" ;;
*)      useversionedarchname="$undef" ;;
esac
case "$useversionedarchname" in
```

```
$define)
 case "$archname" in
 *-$api_versionstring)
  echo "...and architecture name already has -$api_versionstring" >&4
  ;;
 *)
  archname="$archname-$api_versionstring"
  echo "...setting architecture name to $archname." >&4
  ;;
 esac
 ;;
esac

@if usethreads
case "$usethreads" in
$define)
 echo "Threads selected." >&4
 case "$archname" in
 *-thread*) echo "...and architecture name already has -thread." >&4
  ;;
 *)      archname="$archname-thread"
  echo "...setting architecture name to $archname." >&4
  ;;
 esac
 ;;
esac
@end
@if usemultiplicity
case "$usemultiplicity" in
$define)
 echo "Multiplicity selected."
 >&4
 case "$archname" in
 *-multi*) echo "...and architecture name already has -multi." >&4
  ;;
 *)      archname="$archname-multi"
  echo "...setting architecture name to $archname." >&4
  ;;
 esac
 ;;
esac
@end
@if use64bitint
case "$use64bitint$use64bitall" in
*"$define"*)
 case "$archname64" in
 ")
  echo "This architecture is naturally 64-bit, not changing architecture name." >&4
```

```
  ;;
 *)
  case "$use64bitint" in
  "$define") echo "64 bit integers selected." >&4 ;;
  esac
  case "$use64bitall" in
  "$define") echo "Maximal 64 bitness selected." >&4 ;;
  esac
  case "$archname" in
  *-$archname64*) echo "...and architecture name already has $archname64." >&4
   ;;
  *)      archname="$archname-$archname64"
   echo "...setting architecture name to $archname." >&4
   ;;
  esac
  ;;
 esac
esac
@end
@if uselongdouble
case "$uselongdouble" in
$define)
 echo "Long doubles selected." >&4
 case "$longdblsize" in
 $doublesize)
  echo "...but long doubles are equal to doubles, not
 changing architecture name." >&4
  ;;
 *)
  case "$archname" in
  *-ld*) echo "...and architecture name already has -ld." >&4
   ;;
  *)      archname="$archname-ld"
   echo "...setting architecture name to $archname." >&4
   ;;
  esac
  ;;
 esac
 ;;
esac
@end
@if usequadmath
case "$usequadmath" in
$define)
 echo "quadmath selected." >&4
 case "$archname" in
 *-quadmath*) echo "...and architecture name already has -quadmath." >&4
  ;;
```

```
 *)      archname="$archname-quadmath"
  echo "...setting architecture name to $archname." >&4
  ;;
 esac
 ;;
esac
@end
if $test -f archname.cbu; then
 echo "Your platform has some specific hints for architecture name, using them..."
 . ./archname.cbu
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/archname.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fegetround: Inlibc
?MAKE: -pick add $@ %<
?S:d_fegetround:
?S: This variable conditionally defines HAS_FEGETROUND if fegetround() is
?S: available to get the floating point rounding mode.
?S:.
?C:HAS_FEGETROUND:
?C: This symbol, if defined, indicates that the fegetround routine is
?C: available to return the macro corresponding to the current rounding
?C: mode.
?C:.
?H:#$d_fegetround HAS_FEGETROUND /**/
?H:.
?LINT:set d_fegetround
: see if fegetround exists
set fegetround d_fegetround
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fegetround.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fchdir: Inlibc
?MAKE: -pick add $@ %<
?S:d_fchdir:
?S: This variable conditionally defines the HAS_FCHDIR symbol, which
?S: indicates to the C program that the fchdir() routine is available.
?S:.
?C:HAS_FCHDIR:
?C: This symbol, if defined, indicates that the fchdir routine is
?C: available to change directory using a file descriptor.
?C:.
?H:#$d_fchdir HAS_FCHDIR  /**/
?H:.
?LINT:set d_fchdir
: see if fchdir exists
set fchdir d_fchdir
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fchdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysutsname.U,v $
?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysutsname: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysutsname:
?S: This variable conditionally defines the I_SYSUTSNAME symbol,
?S: and indicates whether a C program should include <sys/utsname.h>.
?S:.
?C:I_SYSUTSNAME:
?C: This symbol, if defined, indicates that <sys/utsname.h> exists and
?C: should be included.
?C:.
?H:#$i_sysutsname I_SYSUTSNAME  /**/
?H:.
?LINT:set i_sysutsname
: see if this is a sys/utsname.h system
set sys/utsname.h i_sysutsname
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_sysutsname.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_pthread_attr_setscope: Inlibc
?MAKE: -pick add $@ %<
?S:d_pthread_attr_setscope:
?S: This variable conditionally defines HAS_PTHREAD_ATTR_SETSCOPE if
?S: pthread_attr_setscope() is available to set the contention scope
?S: attribute of a thread attribute object.
?S:.
?C:HAS_PTHREAD_ATTR_SETSCOPE:
?C: This symbol, if defined, indicates that the pthread_attr_setscope
?C: system call is available to set the contention scope attribute of
?C: a thread attribute object.
?C:.
?H:#$d_pthread_attr_setscope HAS_PTHREAD_ATTR_SETSCOPE  /**/
?H:.
?LINT:set
 d_pthread_attr_setscope
: see if pthread_attr_setscope exists
set pthread_attr_setscope d_pthread_attr_setscope
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_pthread_attr_ss.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: randbits.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:19:29  ram
?RCS: patch61: added <unistd.h> and <stdlib.h> to the C program test
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:38  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit has been somewhat made obsolete with creation of the
?X: randfunc function (which finds out how to generate random
?X: numbers between 0 and 1.
?X:
?MAKE:randbits: cat rm Myread cc i_unistd i_stdlib
?MAKE: -pick add $@ %<
?S:randbits:
?S: This
 variable contains the eventual value of the RANDBITS symbol,
?S: which indicates to the C program how many bits of random number
?S: the rand() function produces.
?S:.
?C:RANDBITS:
?C: This symbol contains the number of bits of random number the rand()
?C: function produces.  Usual values are 15, 16, and 31.
?C:.
?H:#define RANDBITS $randbits  /**/
?H:.
: check for size of random number generator
echo " "
case "$randbits" in
")
 echo "Checking to see how many bits your rand function produces..." >&4
 $cat >try.c <<EOCP
#$i_unistd I_UNISTD
#$i_stdlib I_STDLIB
#include <stdio.h>
#ifdef I_UNISTD
#  include <unistd.h>
#endif
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
EOCP
 $cat >>try.c <<'EOCP'
int main()
{
 register int i;
```

```
 register unsigned long tmp;
 register unsigned long max = 0L;

 for (i = 1000; i; i--) {
  tmp = (unsigned long)rand();
  if (tmp > max) max = tmp;
 }
 for (i = 0; max; i++)
  max /= 2;
 printf("%d\n",i);
}
EOCP
 if $cc -o try try.c >/dev/null 2>&1 ; then
  dflt=`try`
 else
  dflt='?'
  echo
 "(I can't seem to compile the test program...)"
 fi
 ;;
*)
 dflt="$randbits"
 ;;
esac
rp='How many bits does your rand() function produce?'
. ./myread
randbits="$ans"
$rm -f try.c try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/randbits.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Hasproto.U $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X: This unit generates a $hasproto string that is used internally
?X: by Configure to check if this system has a prototype for a
?X: particular function
?X:
?X: To use it, say something like:
?X:  set d_getnetent_proto getnetent $i_netdb netdb.h
?X:  eval $hasproto
```

```
?X: Or, for more complicated sets of headers, do something like
?X: hdrs="$define sys/types.h
?X:  $i_systime sys/time.h
?X:  $i_sysselct sys/select.h
?X:  $i_netdb netdb.h"
?X: set d_getnetent_proto getnetent $hdrs
?X: eval $hasproto
?X:
?X: There is also an 'escape' hatch built in.  If you have a pair
?X: of args   'literal 'stuff' then 'stuff' gets included literally
?X: into the test program.  See Protochk.U for more details.
?X:
?MAKE:Hasproto:
 Setvar cppstdin cppflags cppminus contains rm_try test
?MAKE: -pick add $@ %<
?T:func varname
?F:!try.c
?V:hasproto
: Define hasproto macro for Configure internal use
hasproto='varname=$1; func=$2; shift; shift;
while $test $# -ge 2; do
 case "$1" in
 $define) echo "#include <$2>";;
 literal) echo "$2" ;;
 esac ;
   shift 2;
done > try.c;
$cppstdin $cppflags $cppminus < try.c > tryout.c 2>/dev/null;
if $contains "$func.*(" tryout.c >/dev/null 2>&1; then
 echo "$func() prototype found.";
 val="$define";
else
 echo "$func() prototype NOT found.";
 val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try tryout.c'
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/Hasproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpwent.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_getpwent.U,v $
?RCS:
?MAKE:d_getpwent: Inlibc
?MAKE: -pick add $@ %<
?S:d_getpwent:
?S: This variable conditionally defines the HAS_GETPWENT symbol, which
?S: indicates to the C program that the getpwent() routine is available
?S: for sequential access of the passwd database.
?S:.
?C:HAS_GETPWENT:
?C: This symbol, if defined, indicates that the getpwent routine is
?C: available for sequential access of the passwd database.
?C: If this is not available, the older getpw() function may be available.
?C:.
?H:#$d_getpwent HAS_GETPWENT  /**/
?H:.
?LINT:set d_getpwent
: see if getpwent exists
set getpwent d_getpwent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_getpwent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Protochk.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X: This unit generates a ./protochk script that is used internally
?X: by Configure to check if this system will accept a particular
?X: prototype.
?X:
?X: To use it, say something like:
?X: hdrs="$define sys/types.h
?X:  $i_systime sys/time.h
?X:  $i_sysselct sys/select.h
?X:  $d_socket sys/socket.h"
?X: $xxx='fd_set *'
?X: try='extern int select _((int, $xxx, $xxx, $xxx, struct timeval *'));'
?X: if ./protochk "$try" $hdrs; then
```

```
?X:  echo "Your system accepts $xxx for the arguments to select."
?X: fi
?X:  (Of course select is harder, since the first arg can be int,
?X: size_t, or unsigned long, and the last arg may or may not have a
?X: 'const' before the 'struct timeval' :-(.  Also SunOS
 4.1.3 doesn't
?X: provide a select prototype so the compiler accepts anything :-).
?X:
?X: The C compiler on QNX warns about invalid pointer types, but
?X: still exits with a 0 exit status, so it's not much help here.
?X: (It does correctly detect incorrect non-pointer arguments).
?X: Still, since QNX is a POSIX-ish system, just make your first
?X: a POSIX-ish one, and QNX will probably accept it.
?X:
?X: For determining argument types, your compiler must support
?X: prototypes, and the header files must use them.  Determining
?X: return types, however, is easier.  Just give an ridiculous
?X: return type, something like
?X: ./protochk 'extern int atof _((void));' $i_stdlib stdlib.h
?X: that should surely fail if atof() is defined in <stdlib.h>
?X:
?X: There is also an 'escape' hatch built in.  If you have a pair
?X: of args   'literal 'stuff' then 'stuff' gets included literally
?X: into the test program.  This could be useful for doing something
?X: like
?X: hdrs="$define stdio.h
?X:  $define
 sys/types.h"
?X: ./protochk 'extern int fsetpos(FILE *, Fpos_t);' $args \
?X:   'literal' '#define Fpos_t long long'
?X: but you have to be really careful about the spaces in "literal".
?X:
?X:  Andy Dougherty   Feb. 1998
?MAKE:Protochk: cat rm_try startsh eunicefix +cc +optimize +ccflags \
 i_pthread usethreads
?MAKE: -pick add $@ %<
?F:./protochk
?X: Comfort metalint.  All these are actually used in the protochk script.
?T:foo status pthread_h_done
?LINT: change cc optimize ccflags define rm_try
?LINT: extern pthread_h_first
?LINT: change pthread_h_first
?LINT: change usethreads
?LINT: change i_pthread
: define a function to check prototypes
$cat > protochk <<EOSH
$startsh
cc="$cc"
```

```
optimize="$optimize"
ccflags="$ccflags"
define="$define"
rm_try="$rm_try"
usethreads=$usethreads
i_pthread=$i_pthread
pthread_h_first=$pthread_h_first
EOSH

$cat >> protochk <<'EOSH'

$rm_try
foo="$1"
shift
while test $# -ge 2; do
 case "$1" in
  $define) echo "#include <$2>" >> try.c ;;
  literal)
 echo "$2" >> try.c ;;
 esac
   # Extra magic for the benefit of systems that need pthread.h
   # to be included early to correctly detect threadsafe functions.
   # Such functions must guarantee themselves, though, that the usethreads
   # and i_pthread have been defined, before calling protochk.
   if test "$usethreads" = "$define" -a "$i_pthread" = "$define" -a "$pthread_h_first" = "$define" -a
"$pthread_h_done" = ""; then
 echo "#include <pthread.h>" >> try.c
 pthread_h_done=yes
   fi
   shift 2
done
cat >> try.c <<'EOCP'
#define _(args) args
EOCP
echo "$foo" >> try.c
?X: Just so we have something to compile.
echo 'int no_real_function_has_this_name _((void)) { return 0; }' >> try.c
$cc $optimize $ccflags -c try.c > /dev/null 2>&1
status=$?
$rm_try
exit $status
EOSH
chmod +x protochk
$eunicefix protochk
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/Protochk.U

No license file was found, but licenses were detected in source scan.

```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getitimer: Inlibc
?MAKE: -pick add $@ %<
?S:d_getitimer:
?S: This variable conditionally defines the HAS_GETITIMER symbol, which
?S: indicates to the C program that the getitimer() routine is available.
?S:.
?C:HAS_GETITIMER:
?C: This symbol, if defined, indicates that the getitimer routine is
?C: available to return interval timers.
?C:.
?H:#$d_getitimer HAS_GETITIMER  /**/
?H:.
?LINT:set d_getitimer
: see if getitimer exists
set getitimer d_getitimer
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_getitimer.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sockopt.U,v $
?RCS: Revision 3.0.1.1  1995/07/25  14:16:14  ram
?RCS: patch56: obsoleted KEEPALIVE in favor of CAN_KEEPALIVE for consistency
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:d_keepalive: cat rm contains +cc +ccflags socketlib sockethdr \
 d_oldsock libs Oldconfig Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_keepalive:
?S: This symbol conditionally defines CAN_KEEPALIVE which indicates to the C
?S: program that setsockopt
 SO_KEEPALIVE will work properly.
?S:.
?C:CAN_KEEPALIVE (KEEPALIVE):
?C: This symbol if defined indicates to the C program that the SO_KEEPALIVE
?C: option of setsockopt() will work as advertised in the manual.
?C:.
?H:#$d_keepalive CAN_KEEPALIVE  /**/
?H:.
?F:!socket
?LINT:set d_keepalive
: see if setsockopt with SO_KEEPALIVE works as advertised
echo " "
case "$d_oldsock" in
"$undef")
 if $contains SO_KEEPALIVE `./findhdr sys/socket.h` \
  /dev/null >/dev/null 2>&1
 then
  echo "OK, let's see if SO_KEEPALIVE works as advertised..." >&4
  $cat > socket.c <<EOP
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
#include <netdb.h>

int main()
{
 int s = socket(AF_INET, SOCK_STREAM, 0);
 if (s == -1)
  exit(1);
 if (-1 == setsockopt(s, SOL_SOCKET, SO_KEEPALIVE, 0, 0))
  exit(2);
 exit(0);
}
EOP
  if $cc $ccflags $sockethdr -o socket socket.c $libs \
   $socketlib >/dev/null 2>&1; then
   ./socket >/dev/null 2>&1
   case $? in
   0) echo "Yes, it does!"
    val="$define";;
   1)
```

```
 $cat <<EOM
(Something went wrong -- Assuming SO_KEEPALIVE is broken)
EOM
    val="$undef";;
   2) echo "No, it doesn't.  Don't trust your manuals!!"
    val="$undef";;
   esac
  else
   cat <<EOM
(I can't compile the test program -- Assuming SO_KEEPALIVE is broken)
EOM
   val="$undef"
  fi
 else
  echo "Strange!! You have BSD 4.2 sockets but no SO_KEEPALIVE option."
  val="$undef"
 fi;;
*) cat <<EOM
As you have an old socket interface, you can't have heard of SO_KEEPALIVE.
EOM
 val="$undef";;
esac
set d_keepalive
eval $setvar
$rm -f socket socket.c
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/sockopt.U
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```
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?RCS:
?MAKE:d_fsync: Inlibc
?MAKE: -pick add $@ %<
?S:d_fsync:
?S: This variable conditionally defines the HAS_FSYNC symbol, which
?S: indicates to the C program that the fsync() routine is available.
?S:.
?C:HAS_FSYNC:
?C: This symbol, if defined, indicates that the fsync routine is
?C: available to write a file's modified data and attributes to
?C: permanent storage.
```

```
?C:.
?H:#$d_fsync HAS_FSYNC  /**/
?H:.
?LINT:set d_fsync
: see if fsync exists
set fsync d_fsync
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fsync.U
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```
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?RCS:
?MAKE:d_copysignl: Inlibc
?MAKE: -pick add $@ %<
?S:d_copysignl:
?S: This variable conditionally defines the HAS_COPYSIGNL symbol, which
?S: indicates to the C program that the copysignl() routine is available.
?S: If aintl is also present we can emulate modfl.
?S:.
?C:HAS_COPYSIGNL:
?C: This symbol, if defined, indicates that the copysignl routine is
?C: available.  If aintl is also present we can emulate modfl.
?C:.
?H:#$d_copysignl HAS_COPYSIGNL  /**/
?H:.
?LINT:set d_copysignl
: see if copysignl exists
set copysignl d_copysignl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_copysignl.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_keepsig.U,v $
?RCS: Revision 3.0.1.4  1995/07/25  13:57:56  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:26:25  ram
?RCS: patch45: protected "sh -c" within backquotes for Linux and SGI
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:13:59  ram
?RCS: patch36: call ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.1  1993/10/16  13:48:47  ram
?RCS: patch12: comment for SIGNALS_KEPT was the other way round
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:06:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_keepsig: cat Compile rm Guess contains echo n c Setvar run
?MAKE: -pick add $@ %<
?S:d_keepsig:
?S: This variable contains the eventual value of the SIGNALS_KEPT symbol,
?S: which indicates to the C program if signal handlers need not reinstated
?S: after receipt of a signal.
?S:.
?C:SIGNALS_KEPT (PERSISTENT_SIGNAL):
?C: This symbol is defined if signal handlers needn't be reinstated after
?C: receipt of a signal.
?C:.
?H:#$d_keepsig SIGNALS_KEPT /**/
?H:.
?F:!try !try.out
?LINT:set d_keepsig
: see if signals are kept
val="$undef";
echo " "
echo "Checking to see if signal handlers stick around..." >&4
$cat >try.c <<'EOCP'
foo() {}

int main()
{
 signal(2, foo);
 kill(getpid(), 2);
```

```
 kill(getpid(), 2);
 printf("abc\n");
}
EOCP
set try
if eval $compile_ok; then
?X: On AIX a single ./try will not work (with ksh)
?X: Backquotes required on Linux and SGI (prevents "ambiguous output redirect")
?X:
 (reported by Xavier LeVourch <xavierl@eiffel.com>)
 `sh -c $run ./try >try.out 2>/dev/null`
 if $contains abc try.out >/dev/null 2>&1; then
  echo "Yes, they do."
  val="$define";
 else
  echo "No, they don't."
 fi
else
 $echo $n "(I can't seem to compile the test program. Assuming $c"
 if ./bsd; then
  echo "they do.)"
  val="$define"
 else
  echo "they don't.)"
 fi
fi
set d_keepsig
eval $setvar
$rm -f try*
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_keepsig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_syssecrt: Inhdr
?MAKE: -pick add $@ %<
?S:i_syssecrt:
```

```
?S: This variable conditionally defines the I_SYS_SECURITY symbol,
?S: and indicates whether a C program should include <sys/security.h>.
?S:.
?C:I_SYS_SECURITY:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/security.h>.
?C:.
?H:#$i_syssecrt   I_SYS_SECURITY /**/
?H:.
?LINT:set i_syssecrt
: see if sys/security.h is available
set sys/security.h i_syssecrt
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/acl/i_syssecrt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_nolnbuf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_nolnbuf.U,v $
?RCS: Revision 3.0.1.1  1994/05/06  14:46:07  ram
?RCS: patch23: avoid looping in the "see that again?" prompt (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:43  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_nolnbuf: test +cc cat rm Setvar Myread
?MAKE: -pick add $@ %<
?S:d_nolnbuf:
?S: This variable conditionally defines the NOLINEBUF symbol, which
?S: indicates to the C program that stdout is not buffered, so that
?S: the
 program can call setbuf() or setlinebuf() for efficiency.
?S:.
?C:NOLINEBUF:
?C: This symbol, if defined, indicates that stdout is not buffered, so that
?C: the program can call setbuf() or setlinebuf() for efficiency.
?C:.
```

```
?H:#$d_nolnbuf NOLINEBUF /**/
?H:.
?T:xxx
?F:!blurfl
?LINT:set d_nolnbuf
: check for buffering of stdout
echo " "
case "$d_nolnbuf" in
")
 $cat <<'EOT' >blurfl.c
#include <stdio.h>
int main()
{
 int i;

 for (i = 0; i < 5; i++) {
  putchar(i+'a');
  sleep(1);
 }
 putchar('\n');
}
EOT
 $cc -o blurfl blurfl.c >/dev/null 2>&1;
 $rm -f blurfl.c
 $cat >&4 <<'EOM'
Checking for buffering of stdout to terminal.

Observe the following characters as they are printed out, to see whether they
print out all at once, or with a 1 second pause between each of them.  If they
print out one by one, you don't have buffering.  If they print together (after
about a 5 second pause), you do have buffering.

EOM
 dflt='Type return to start printing the test characters'
 rp="
 .
 ./myread
 xxx=y
 while $test "$xxx" = 'y'; do
  ./blurfl 1>&4
  dflt=n
  rp='Would you like to see that again?'
  . ./myread
  case "$ans" in
  [yY]*) xxx="y";;
  *) xxx="n";;
  esac
 done
```

```
 dflt=y
 rp="Do you have buffering (printed all at once)?"
 . ./myread
 case "$ans" in
 n*) val="$define";;
 *)  val="$undef";;
 esac
 ;;
*)
 case "$d_nolnbuf" in
 "$define") dflt=n;;
 *) dflt=y;;
 esac
 rp="Do you have buffering on stdout to terminals?"
 . ./myread
 case "$ans" in
 n*) val="$define";;
 *)  val="$undef";;
 esac
 ;;
esac
set d_nolnbuf
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_nolnbuf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getprotoprotos.U,v $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_getprotoprotos : Hasproto i_netdb
?MAKE: -pick add $@ %<
?S:d_getprotoprotos:
?S: This variable conditionally defines the HAS_GETPROTO_PROTOS symbol,
?S: which indicates to the C program that <netdb.h> supplies
?S: prototypes for the various getproto*() functions.
?S: See also netdbtype.U for probing for various netdb types.
?S:.
?C:HAS_GETPROTO_PROTOS:
```

```
?C: This symbol, if defined, indicates that <netdb.h> includes
?C: prototypes for getprotoent(), getprotobyname(), and
?C: getprotobyaddr().
  Otherwise, it is up to the program to guess
?C: them.  See netdbtype.U for probing for various Netdb_xxx_t types.
?C:.
?H:#$d_getprotoprotos HAS_GETPROTO_PROTOS /**/
?H:.
?LINT:set d_getprotoprotos
: see if prototypes for various getprotoxxx netdb.h functions are available
echo " "
set d_getprotoprotos getprotoent $i_netdb netdb.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/d_getprotoprotos.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: randfunc.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This is the new unit that should be used when random
?X: functions are to be used. It thus makes randbits.U obsolete.
?X:
?MAKE:randfunc mrand seedfunc nrandbits: cat +cc rm test Myread Csym
?MAKE: -pick add $@ %<
?S:randfunc:
?S: Indicates the name of the random number function to use.
?S: Values include drand48, random, and rand. In C programs,
?S: the 'nrand' macro is defined
 to generate uniformly distributed
?S: random numbers over the range [0., 1.] (see mrand and nrand).
?S:.
?S:mrand:
?S: Indicates the macro to be used to generate normalized
```

```
?S: random numbers.  Uses randfunc, often divided by
?S: (double) ((1 << nrandbits) -1) in order to normalize the result.
?S: In C programs, the macro 'nrand' is maped on mrand.
?S:.
?S:seedfunc:
?S: Indicates the random number generating seed function.
?S: Values include srand48, srandom, and srand.
?S:.
?S:nrandbits:
?S: Indicates how many bits are produced by the function used to
?S: generate normalized random numbers.
?S:.
?C:nrand:
?C: This macro is to be used to generate uniformly distributed
?C: random numbers over the range [0., 1.].
?C:.
?C:seednrand:
?C: This symbol defines the macro to be used in seeding the
?C: random number generator (see nrand).
?C:.
?H:#define nrand()  $mrand  /**/
?H:#define seednrand(x) $seedfunc(x) /**/
?H:.
?T:cont val
?LINT:nothere $nrandbits)
: How can we generate normalized
 random numbers ?
echo " "
case "$randfunc" in
")
 if set drand48 val -f; eval $csym; $val; then
  dflt="drand48"
  echo "Good, found drand48()." >&4
 elif set random val -f; eval $csym; $val; then
  dflt="random"
  echo "OK, found random()." >&4
 else
  dflt="rand"
  echo "Yick, looks like I have to use rand()." >&4
 fi
 echo " "
 ;;
*)
 dflt="$randfunc"
 ;;
esac
cont=true
while $test "$cont"; do
```

```
 rp="Use which function to generate random numbers?"
 . ./myread
?X: Invalidates nrandbits if the answer is not the default so
?X: that the value stored in config.sh will not be used when
?X: we change our random function.
 if $test "$ans" = "$dflt"; then
  : null
 else
  nrandbits=''
 fi
 randfunc="$ans"
 if set $ans val -f; eval $csym; $val; then
  cont=''
 else
  dflt=n
  rp="Function $ans does not exists. Use that name anyway?"
  . ./myread
  dflt=rand
  case "$ans" in
   [yY]*) cont='';;
  esac
 fi
 case "$cont" in
 '')
  case "$randfunc" in
  drand48)
   mrand="drand48()"
   seedfunc="srand48"
   ;;
  rand*)
   case
 "$nrandbits" in
   '')
echo "Checking to see how many bits your $randfunc() function produces..." >&4
   $cat >try.c <<EOCP
#include <stdio.h>
int main()
{
 register int i;
 register unsigned long tmp;
 register unsigned long max = 0L;
 extern long random();

 for (i = 1000; i; i--) {
  tmp = (unsigned long)$randfunc();
  if (tmp > max) max = tmp;
 }
 for (i = 0; max; i++)
```

```
  max /= 2;
 printf("%d\n",i);
}
EOCP
   if $cc -o try try.c >/dev/null 2>&1 ; then
   dflt=`try`
   else
   dflt='?'
   echo "(I can't seem to compile the test program...)"
   fi
   ;;
   *)
    dflt="$nrandbits"
    ;;
   esac
   rp="How many bits does your $randfunc() function produce?"
   . ./myread
   nrandbits="$ans"
   $rm -f try.c try
   mrand="($randfunc() / (double) ((1 << $nrandbits) -1))"
   seedfunc="srand"
   ;;
?X: The following is provided just in case...
  *)
   dflt="31"
   rp="How many bits does your $randfunc() function produce?"
   . ./myread
   nrandbits="$ans"
   seedfunc="s$randfunc"
   mrand="($randfunc()
 / (double) ((1 << $nrandbits) -1))"
   if set $seedfunc val -f; eval $csym; $val; then
    echo "(Using $seedfunc() to seed random generator)"
   else
    echo "(Warning: no $seedfunc() to seed random generator)"
    seedfunc=rand
   fi
   ;;
  esac
  ;;
 esac
done
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/randfunc.U
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```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_sigsetjmp.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:44:33  ram
?RCS: patch61: created
?RCS:
?MAKE:d_sigsetjmp: Setvar cat +cc +ccflags +ldflags libs rm
?MAKE: -pick add $@ %<
?S:d_sigsetjmp:
?S: This variable conditionally defines the HAS_SIGSETJMP symbol,
?S: which indicates that the sigsetjmp() routine
 is available to
?S: call setjmp() and optionally save the process's signal mask.
?S:.
?C:HAS_SIGSETJMP:
?C: This variable indicates to the C program that the sigsetjmp()
?C: routine is available to save the calling process's registers
?C: and stack environment for later use by siglongjmp(), and
?C: to optionally save the process's signal mask.  See
?C: Sigjmp_buf, Sigsetjmp, and Siglongjmp.
?C:.
?C:Sigjmp_buf:
?C: This is the buffer type to be used with Sigsetjmp and Siglongjmp.
?C:.
?C:Sigsetjmp:
?C: This macro is used in the same way as sigsetjmp(), but will invoke
?C: traditional setjmp() if sigsetjmp isn't available.
?C: See HAS_SIGSETJMP.
?C:.
?C:Siglongjmp:
?C: This macro is used in the same way as siglongjmp(), but will invoke
?C: traditional longjmp() if siglongjmp isn't available.
?C: See HAS_SIGSETJMP.
?C:.
?H:?%<:#$d_sigsetjmp HAS_SIGSETJMP /**/
?H:?%<:#ifdef HAS_SIGSETJMP
```

```
?H:?%<:#define Sigjmp_buf sigjmp_buf
?H:?%<:#define Sigsetjmp(buf,save_mask) sigsetjmp((buf),(save_mask))
?H:?%<:#define
 Siglongjmp(buf,retval) siglongjmp((buf),(retval))
?H:?%<:#else
?H:?%<:#define Sigjmp_buf jmp_buf
?H:?%<:#define Sigsetjmp(buf,save_mask) setjmp((buf))
?H:?%<:#define Siglongjmp(buf,retval) longjmp((buf),(retval))
?H:?%<:#endif
?H:.
?W:%<:Sigjmp_buf Sigsetjmp Siglongjmp
?F:!set
?LINT:set d_sigsetjmp
: see if sigsetjmp exists
?X: We can't check for these symbols with Inlibc because sigsetjmp
?X: is (sometimes? always?) a macro under GCC
echo " "
case "$d_sigsetjmp" in
")
 $cat >set.c <<'EOP'
#include <setjmp.h>
sigjmp_buf env;
int set = 1;
int main()
{
 if (sigsetjmp(env,1))
  exit(set);
 set = 0;
 siglongjmp(env, 1);
 exit(1);
}
EOP
 if $cc $ccflags $ldflags -o set set.c $libs > /dev/null 2>&1 ; then
  if ./set >/dev/null 2>&1; then
   echo "POSIX sigsetjmp found." >&4
   val="$define"
  else
   $cat >&4 <<EOM
Uh-Oh! You have POSIX sigsetjmp and siglongjmp, but they do not work properly!!
I'll ignore them.
EOM
   val="$undef"
  fi
 else
  echo "sigsetjmp not found."
 >&4
  val="$undef"
 fi
```

```
 ;;
*) val="$d_sigsetjmp"
 case "$d_sigsetjmp" in
 $define) echo "POSIX sigsetjmp found." >&4;;
 $undef) echo "sigsetjmp not found." >&4;;
 esac
 ;;
esac
set d_sigsetjmp
eval $setvar
$rm -f set.c set
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sigsetjmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_pthread_atfork: Inlibc cat Compile usethreads Setvar
?MAKE: -pick add $@ %<
?S:d_pthread_atfork:
?S: This variable conditionally defines the HAS_PTHREAD_ATFORK symbol,
?S: which indicates to the C program that the pthread_atfork()
?S: routine is available.
?S:.
?C:HAS_PTHREAD_ATFORK:
?C: This symbol, if defined, indicates that the pthread_atfork routine
?C: is available to setup fork handlers.
?C:.
?H:#$d_pthread_atfork HAS_PTHREAD_ATFORK  /**/
?H:.
?LINT:set d_pthread_atfork
: see whether the pthread_atfork exists
$cat >try.c <<EOP
#include <pthread.h>
#include <stdio.h>
int main() {
#ifdef  PTHREAD_ATFORK
	pthread_atfork(NULL,NULL,NULL);
#endif
}
EOP
```

```
: see if pthread_atfork exists
set
 try -DPTHREAD_ATFORK
if eval $compile; then
   val="$define"
else
   val="$undef"
fi
case "$usethreads" in
$define)
       case "$val" in
       $define) echo 'pthread_atfork found.' >&4        ;;
       *)       echo 'pthread_atfork NOT found.' >&4    ;;
       esac
esac
set d_pthread_atfork
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_pthread_atfork.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_popen.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_popen.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_popen: Inlibc
?MAKE: -pick add $@ %<
?S:d_popen:
?S: This variable conditionally defines HAS_POPEN if popen() is
?S: available to open a pipe from a process.
?S:.
?C:HAS_POPEN (POPEN):
?C: This symbol, if defined, indicates that the popen routine is
?C: available to open a pipe from a process.
?C:.
```

```
?H:#$d_popen HAS_POPEN  /**/
?H:.
?LINT:set
 d_popen
: see if popen exists
set popen d_popen
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_popen.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_scorfl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_scorfl.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_scorfl: cat Myread Oldconfig nametype Setvar
?MAKE: -pick add $@ %<
?S:d_scorfl:
?S: This variable conditionally defines the SCOREFULL symbol, which
?S: indicates to the C program that any scoreboard kept by the program
?S: should be kept on the basis of the user's full name as opposed to
?S: the user's login name.
?S:.
?C:SCOREFULL:
?C: This
 symbol, if defined, indicates that any scoreboard kept by the
?C: program should be kept on the basis of the user's full name as opposed
?C: to the user's login name.  If the user can change his full name he
?C: can enter multiple scores if this is defined.
?C:.
?H:#$d_scorfl SCOREFULL /**/
?H:.
?LINT:set d_scorfl
: see how they want the scoreboard kept
case "$d_scorfl" in
"$define") dflt=y ;;
```

```
*) dflt=n ;;
esac
case "$nametype" in
other) val="$undef" ;;
*)
 $cat <<'EOM'

The scoreboard can be kept with one score per login name, or one score per full
name.  If users can change their full name, or if there is more than one person
on your system with the same full name, you should keep the score by login name
(the full name is still printed).

EOM
 rp='Do you want the scoreboard kept by full name?'
 . ./myread
 case "$ans" in
 y*) val="$define" ;;
 *) val="$undef" ;;
 esac
 ;;
esac
set d_scorfl
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_scorfl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_faststdio: Setvar \
 d_stdstdio d_stdio_ptr_lval d_stdio_cnt_lval d_stdio_ptr_lval_sets_cnt
?MAKE: -pick add $@ %<
?S:d_faststdio:
?S: This variable conditionally defines the HAS_FAST_STDIO symbol,
?S: which indicates to the C program that the "fast stdio" is available
?S: to manipulate the stdio buffers directly.
?S:.
?C:HAS_FAST_STDIO:
?C: This symbol, if defined, indicates that the "fast stdio"
?C: is available to manipulate the stdio buffers directly.
?C:.
```

```
?H:#$d_faststdio HAS_FAST_STDIO  /**/
?H:.
?LINT:set d_faststdio
: see if fast_stdio exists
val="$undef"
case "$d_stdstdio:$d_stdio_ptr_lval" in
"$define:$define")
 case "$d_stdio_cnt_lval$d_stdio_ptr_lval_sets_cnt" in
 *$define*)
  echo "You
 seem to have 'fast stdio' to directly manipulate the stdio buffers." >&4
  val="$define"
  ;;
 esac
 ;;
esac
set d_faststdio
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_faststdio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: prefshell.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: prefshell.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:28:13  ram
?RCS: patch36: added SHELL temporary since metalint now sees ${SHELL}
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:11:47  ram
?RCS: patch10: non-portable var substitution was used (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:34  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:prefshell: cat package Getfile Oldconfig ksh csh bash
?MAKE: -pick add $@ %<
?S:prefshell:
?S: This
```

```
 variable contains the eventual value of the PREFSHELL symbol,
?S: which contains the full name of the preferred user shell on this
?S: system.  Usual values are /bin/csh, /bin/ksh, /bin/sh.
?S:.
?C:PREFSHELL:
?C: This symbol contains the full name of the preferred user shell on this
?C: system.  Usual values are /bin/csh, /bin/ksh, /bin/sh.
?C:.
?H:#define PREFSHELL "$prefshell"  /**/
?H:.
?T:SHELL
: find out which shell people like to use most
case "$prefshell" in
")
 case "$ksh $bash $csh" in
 */ksh*) dflt="$ksh" ;;
 */bash*) dflt="$bash" ;;
 */csh*) dflt="$csh" ;;
 *) dflt='/bin/sh' ;;
 esac
 ;;
*)  dflt="$prefshell";;
esac
?X: Some shells (Ultrix) do not understand ${SHELL:-/bin/sh}, sigh!
$cat <<EOM

Give the full path name of the shell most people like to use on your system.
This will be used by $package whenever the user wants to get a shell
escape (for instance) and is not necessarily the same as the shell you are
currently using (${SHELL-/bin/sh}).

EOM
fn=f/~
rp='Preferred
 shell to be used?'
. ./getfile
prefshell=$ans
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/prefshell.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_keepsig.U,v $
?RCS: Revision 3.0.1.4  1995/07/25  13:57:56  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:26:25  ram
?RCS: patch45: protected "sh -c" within backquotes for Linux and SGI
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:13:59  ram
?RCS: patch36: call ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.1  1993/10/16  13:48:47  ram
?RCS: patch12: comment for SIGNALS_KEPT was the other way round
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:06:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_keepsig: cat Compile rm Guess contains echo n c Setvar run
?MAKE: -pick add $@ %<
?S:d_keepsig:
?S: This variable contains the eventual value of the SIGNALS_KEPT symbol,
?S: which indicates to the C program if signal handlers need not reinstated
?S: after receipt of a signal.
?S:.
?C:SIGNALS_KEPT (PERSISTENT_SIGNAL):
?C: This symbol is defined if signal handlers needn't be reinstated after
?C: receipt of a signal.
?C:.
?H:#$d_keepsig SIGNALS_KEPT /**/
?H:.
?F:!try !try.out
?LINT:set d_keepsig
: see if signals are kept
val="$undef";
echo " "
echo "Checking to see if signal handlers stick around..." >&4
$cat >try.c <<'EOCP'
foo() {}

int main()
{
 signal(2, foo);
 kill(getpid(), 2);
```

```
 kill(getpid(), 2);
 printf("abc\n");
}
EOCP
set try
if eval $compile; then
?X: On AIX a single ./try will not work (with ksh)
?X: Backquotes required on Linux and SGI (prevents "ambiguous output redirect")
?X:
 (reported by Xavier LeVourch <xavierl@eiffel.com>)
 echo `sh -c $run ./try >try.out 2>/dev/null` >/dev/null
 if $contains abc try.out >/dev/null 2>&1; then
  echo "Yes, they do."
  val="$define";
 else
  echo "No, they don't."
 fi
else
 $echo $n "(I can't seem to compile the test program. Assuming $c"
 if ./bsd; then
  echo "they do.)"
  val="$define"
 else
  echo "they don't.)"
 fi
fi
set d_keepsig
eval $setvar
$rm -f try*
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_keepsig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_math.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_math.U,v $
```

```
?RCS: Revision 3.0.1.1  1994/08/29  16:21:59  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:i_math: Inhdr
?MAKE: -pick add $@ %<
?X: Are there really systems that *DON'T* have math.h?
?S:i_math:
?S: This variable conditionally defines the I_MATH symbol, and indicates
?S: whether a C program may include <math.h>.
?S:.
?C:I_MATH:
?C: This symbol, if defined, indicates
 to the C program that it should
?C: include <math.h>.
?C:.
?H:#$i_math I_MATH  /**/
?H:.
?LINT:set i_math
: see if this is a math.h system
set math.h i_math
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_math.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: errnolist.U,v 3.0.1.2 1997/02/28 15:48:01 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: errnolist.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:48:01  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: likewise for .o replaced by $_o
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:10:54  ram
?RCS: patch16: created
?RCS:
?MAKE:errnolist errnolist_SH errnolist_a errnolist_c errnolist_o: cat \
 Compile +d_sysernlst _a _o
?MAKE: -pick add $@ %<
```

```
?S:errnolist:
?S: This variable holds the base name of a file containing the
?S: definition
 of the sys_errnolist array, if the C library
?S: doesn't provide it already.  Otherwise, its value is empty.
?S: The following lines should be included in your Makefile.SH:
?S:
?S:  case "$errnolist" in
?S:  ") ;;
?S:  *)
?S:   $spitshell >>Makefile <<!GROK!THIS!
?S:  $errnolist_c: $errnolist_SH $errnolist_a
?S:   sh ./$errnolist_SH
?S:
?S:  !GROK!THIS!
?S:   ;;
?S:  esac
?S:
?S: You may define the 'errnolist' variable in your Myinit.U if you
?S: wish to override its default value "errnolist".
?S:.
?S:errnolist_SH:
?S: This is the name of a file which will generate errnolistc.
?S:.
?S:errnolist_a:
?S: This is the name of the awk script called by errnolist_SH.
?S:.
?S:errnolist_c:
?S: This is the name of a generated C file which provides the
?S: definition of the sys_errnolist array.
?S:.
?S:errnolist_o:
?S: This is the name of the object file which provides the
?S: definition of the sys_errnolist array, if the C library
?S: doesn't provide it already.  Otherwise, its value is
 empty.
?S:.
?INIT:errnolist=errnolist
: check for sys_errnolist
@if d_sysernlst || HAS_SYS_ERRNOLIST
case "$d_sysernlst" in
"$define")
   errnolist="
   errnolist_SH="
   errnolist_a="
   errnolist_c="
   errnolist_o="
 ;;
```

```
*)
 echo " "
 echo "I'll make sure your Makefile provides sys_errnolist in $errnolist.c"
   errnolist_SH=$errnolist.SH
   errnolist_a=$errnolist$_a
   errnolist_c=$errnolist.c
   errnolist_o=$errnolist$_o
 ;;
esac
@else
echo " "
$cat <<EOM
Checking to see if your C library provides us with sys_errnolist[]...
EOM
$cat >errnolist.c <<'EOCP'
extern char *sys_errnolist[];
int main() {
   char *p0 = sys_errnolist[0];
   char *p1 = sys_errnolist[1];

   return (p0 == p1); /* Make sure they're not optimized away */
}
EOCP
set errnolist
if eval $compile; then
   echo "It does."
   errnolist="
   errnolist_SH="
   errnolist_a="
   errnolist_c="
   errnolist_o="
else
 echo "I'll make sure your Makefile provides sys_errnolist in $errnolist.c"
   errnolist_SH=$errnolist.SH
    errnolist_a=$errnolist$_a
   errnolist_c=$errnolist.c
   errnolist_o=$errnolist$_o
fi
@end
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/errnolist.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: libdbm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libdbm.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:56:57  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libdbm: test Loc libpth _a
?MAKE: -pick add $@ %<
?S:libdbm:
?S: This variable contains the argument to pass to the loader in order
?S: to get the dbm library routines.  If there is no dbm or ndbm
?S: library, it is null.
?S:.
?T:xxx
:
 see if we should include -ldbm
echo " "
if $test -r /usr/lib/libndbm$_a || $test -r /usr/local/lib/libndbm$_a ; then
 echo "-lndbm found." >&4
 libdbm='-lndbm'
elif $test -r /usr/lib/libdbm$_a || $test -r /usr/local/lib/libdbm$_a ; then
 echo "-ldbm found." >&4
 libdbm='-ldbm'
else
 xxx=`./loc libdbm$_a x $libpth`
 case "$xxx" in
 x)
  echo "No dbm library found." >&4
  libdbm=''
  ;;
 *)
  echo "DBM library found in $xxx." >&4
  libdbm="$xxx"
  ;;
 esac
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/libdbm.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_lockf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_lockf.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:09:36  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_lockf: Inlibc
?MAKE: -pick add $@ %<
?S:d_lockf:
?S: This variable conditionally defines HAS_LOCKF if lockf() is
?S: available to do file locking.
?S:.
?C:HAS_LOCKF (LOCKF):
?C: This symbol, if defined, indicates that the lockf routine is
?C: available to do file locking.
?C:.
?H:#$d_lockf
 HAS_LOCKF  /**/
?H:.
?LINT:set d_lockf
: see if lockf exists
set lockf d_lockf
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_lockf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setprotoent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
```

```
?RCS:
?MAKE:d_setprotoent_r setprotoent_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_setprotoent_r:
?S: This variable conditionally defines the HAS_SETPROTOENT_R symbol,
?S: which indicates to the C program that the setprotoent_r()
?S: routine is available.
?S:.
?S:setprotoent_r_proto:
?S: This variable encodes the prototype of setprotoent_r.
?S: It is zero if d_setprotoent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setprotoent_r
?S: is defined.
?S:.
?C:HAS_SETPROTOENT_R:
?C: This symbol, if defined, indicates that the setprotoent_r
 routine
?C: is available to setprotoent re-entrantly.
?C:.
?C:SETPROTOENT_R_PROTO:
?C: This symbol encodes the prototype of setprotoent_r.
?C: It is zero if d_setprotoent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setprotoent_r
?C: is defined.
?C:.
?H:#$d_setprotoent_r HAS_SETPROTOENT_R /**/
?H:#define SETPROTOENT_R_PROTO $setprotoent_r_proto /**/
?H:.
?T:try hdrs d_setprotoent_r_proto
: see if setprotoent_r exists
set setprotoent_r d_setprotoent_r
eval $inlibc
case "$d_setprotoent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_setprotoent_r_proto:$usethreads" in
 ":define") d_setprotoent_r_proto=define
  set d_setprotoent_r_proto setprotoent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_setprotoent_r_proto" in
 define)
 case "$setprotoent_r_proto" in
 "|0) try='int setprotoent_r(int, struct protoent_data*);'
 ./protochk "$extern_C $try" $hdrs && setprotoent_r_proto=I_ID ;;
 esac
```

```
 case "$setprotoent_r_proto"
 in
"|0) try='void setprotoent_r(int, struct protoent_data*);'
 ./protochk "$extern_C $try" $hdrs && setprotoent_r_proto=V_ID ;;
 esac
 case "$setprotoent_r_proto" in
"|0) d_setprotoent_r=undef
  setprotoent_r_proto=0
  echo "Disabling setprotoent_r, cannot determine prototype." >&4 ;;
* ) case "$setprotoent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) setprotoent_r_proto="REENTRANT_PROTO_$setprotoent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "setprotoent_r has no prototype, not using it." >&4 ;;
  esac
  d_setprotoent_r=undef
  setprotoent_r_proto=0
  ;;
 esac
 ;;
*) setprotoent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_setprotoent_r.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: scandir.C,v 3.0.1.1 1994/01/24 13:58:45 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
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*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* $Log: scandir.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:45  ram
* patch16: created
*
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/lib/C/fake/scandir.C
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ffs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_ffs.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_ffs d_ffsl: Inlibc
?MAKE: -pick add $@ %<
?S:d_ffs:
?S: This variable conditionally defines the HAS_FFS symbol, which
?S: indicates to the C program that the ffs() routine is available
?S: to find the first bit which is set in its integer argument.
?S:.
?S:d_ffsl:
?S: This variable conditionally defines the HAS_FFSL symbol, which
?S: indicates
 to the C program that the ffsl() routine is available
?S: to find the first bit which is set in its long integer argument.
?S:.
?C:HAS_FFS:
?C: This symbol, if defined, indicates that the ffs routine is available
?C: to find the first bit set in its argument.  If it's not available,
?C: roll your own.
?C:.
?C:HAS_FFSL:
?C: This symbol, if defined, indicates that the ffsl routine is available
?C: to find the first bit set in its argument.  If it's not available,
?C: roll your own.
?C:.
?H:#$d_ffs HAS_FFS  /**/
?H:#$d_ffsl HAS_FFSL  /**/
?H:.
?LINT:set d_ffs d_ffsl
```

```
: see if ffs exists
set ffs d_ffs
eval $inlibc
: see if ffsl exists
set ffsl d_ffsl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_ffs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethostprotos.U,v $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_gethostprotos : Hasproto i_netdb
?MAKE: -pick add $@ %<
?S:d_gethostprotos:
?S: This variable conditionally defines the HAS_GETHOST_PROTOS symbol,
?S: which indicates to the C program that <netdb.h> supplies
?S: prototypes for the various gethost*() functions.
?S: See also netdbtype.U for probing for various netdb types.
?S:.
?C:HAS_GETHOST_PROTOS:
?C: This symbol, if defined, indicates that <netdb.h> includes
?C: prototypes for gethostent(), gethostbyname(), and
?C: gethostbyaddr().  Otherwise,
 it is up to the program to guess
?C: them.  See netdbtype.U for probing for various Netdb_xxx_t types.
?C:.
?H:#$d_gethostprotos HAS_GETHOST_PROTOS /**/
?H:.
?LINT:set d_gethostprotos
?X: This test actually only checks for gethostent() and assumes the
?X: others follow suit.  This test fails for ChorusOS, which has
?X: gethostbyname and gethostbyaddr, but not gethostent.
: see if prototypes for various gethostxxx netdb.h functions are available
echo " "
set d_gethostprotos gethostent $i_netdb netdb.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/d_gethostprotos.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_crypt.U,v $
?RCS:
?RCS: Copyright (c) 2002 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_crypt: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_crypt:
?S: This variable conditionally defines the I_CRYPT symbol, and indicates
?S: whether a C program should include <crypt.h>.
?S:.
?C:I_CRYPT:
?C: This symbol, if defined, indicates that <crypt.h> exists and
?C: should be included.
?C:.
?H:#$i_crypt I_CRYPT  /**/
?H:.
?LINT:set i_crypt
: see if this is a crypt.h system
set crypt.h i_crypt
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_crypt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_wcstombs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_wcstombs.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:d_wcstombs: Inlibc
?MAKE: -pick add $@ %<
?S:d_wcstombs:
?S: This variable conditionally defines the HAS_WCSTOMBS symbol, which
?S: indicates to the C program that the wcstombs() routine is available
?S: to convert wide character strings to multibyte strings.
?S:.
?C:HAS_WCSTOMBS:
?C: This symbol, if defined, indicates that the wcstombs
 routine is
?C: available to convert wide character strings to multibyte strings.
?C:.
?H:#$d_wcstombs HAS_WCSTOMBS /**/
?H:.
?LINT:set d_wcstombs
: see if wcstombs exists
set wcstombs d_wcstombs
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_wcstombs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:perladmin: cf_email Oldconfig Myread cat
?MAKE: -pick add $@ %<
?Y:TOP
?S:perladmin:
?S: Electronic mail address of the perl5 administrator.
?S:.
: Ask e-mail of administrator
$cat <<EOM

If you or somebody else will be maintaining perl at your site, please
fill in the correct e-mail address here so that they may be contacted
if necessary. You may enter "none" for no administrator.

EOM
case "$perladmin" in
") dflt="$cf_email";;
*) dflt="$perladmin";;
esac
rp='Perl administrator e-mail address'
```

```
. ./myread
perladmin="$ans"
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/perladmin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_syscall.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_syscall.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_syscall: Inlibc
?MAKE: -pick add $@ %<
?S:d_syscall:
?S: This variable conditionally defines HAS_SYSCALL if syscall() is
?S: available call arbitrary system calls.
?S:.
?C:HAS_SYSCALL (SYSCALL):
?C: This symbol, if defined, indicates that the syscall routine is
?C: available to call arbitrary system calls. If undefined, that's tough.
?C:.
?H:#$d_syscall
 HAS_SYSCALL /**/
?H:.
?LINT:set d_syscall
: see if syscall exists
set syscall d_syscall
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_syscall.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_mkfifo.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_mkfifo.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:14:17  ram
?RCS: patch36: created by ADO
?RCS:
?RCS:
?MAKE:d_mkfifo: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkfifo:
?S: This variable conditionally defines the HAS_MKFIFO symbol, which
?S: indicates to the C program that the mkfifo() routine is available.
?S:.
?C:HAS_MKFIFO :
?C: This symbol, if defined, indicates that the mkfifo
 routine is
?C: available to create FIFOs. Otherwise, mknod should be able to
?C: do it for you. However, if mkfifo is there, mknod might require
?C: super-user privileges which mkfifo will not.
?C:.
?H:#$d_mkfifo HAS_MKFIFO  /**/
?H:.
?LINT:set d_mkfifo
: see if mkfifo exists
set mkfifo d_mkfifo
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_mkfifo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_euc2jis.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: d_euc2jis.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_euc2jis: Inlibc
?MAKE: -pick add $@ %<
?S:d_euc2jis:
?S: This variable conditionally defines the HAS_EUC2JIS symbol, which
?S: indicates to the C program that the euc2jis() routine is available
?S: to convert EUC to JIS.
?S:.
?C:HAS_EUC2JIS:
?C: This symbol, if defined, indicates that the euc2jis routine is
?C: available to convert
 EUC to JIS.
?C:.
?H:#$d_euc2jis HAS_EUC2JIS  /**/
?H:.
?LINT:set d_euc2jis
: see if euc2jis exists
set euc2jis d_euc2jis
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_euc2jis.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sethent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_sethent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sethent: Inlibc
?MAKE: -pick add $@ %<
?S:d_sethent:
?S: This variable conditionally defines HAS_SETHOSTENT if sethostent() is
?S: available.
```

```
?S:.
?C:HAS_SETHOSTENT:
?C: This symbol, if defined, indicates that the sethostent() routine is
?C: available.
?C:.
?H:#$d_sethent HAS_SETHOSTENT  /**/
?H:.
?LINT:set d_sethent
: see if sethostent exists
set
 sethostent d_sethent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_sethent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: contains.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: contains.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:contains: Nothing
?MAKE: -pick add $@ %<
?S:contains:
?S: This variable holds the command to do a grep with a proper return
?S: status.  On most sane systems it is simply "grep".  On insane systems
?S: it is a grep followed by a cat followed by a test.  This variable
?S: is primarily for the use of other Configure units.
?S:.
: Some
 greps do not return status, grrr.
echo "grimblepritz" >grimble
if grep blurfldyick grimble >/dev/null 2>&1 ; then
 contains=contains
elif grep grimblepritz grimble >/dev/null 2>&1 ; then
 contains=grep
else
```

```
 contains=contains
fi
rm -f grimble
: the following should work in any shell
case "$contains" in
contains*)
 echo " " >&4
 echo "AGH!  Grep doesn't return a status.  Attempting remedial action." >&4
 cat >contains <<'EOSS'
grep "$1" "$2" >.greptmp && cat .greptmp && test -s .greptmp
EOSS
contains=./contains
chmod +x $contains
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/contains.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Tr.U,v 3.0.1.2 1994/10/29 18:00:54 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Tr.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  18:00:54  ram
?RCS: patch43: forgot to quote $@ to protect against "evil" characters
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:58:35  ram
?RCS: patch36: created
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to do a character translation. It catches translations to uppercase or
?X: to lowercase, and then invokes the real tr to perform the job.
?X:
?X: This unit is necessary
 on HP machines (HP strikes again!) with non-ascii
?X: ROMAN8-charset, where normal letters are not arranged in a row, so a-z
?X: covers not the whole alphabet but lots of special chars. This was reported
?X: by Andreas Sahlbach <a.sahlbach@tu-bs.de>.
?X:
```

```
?X: Units performing a tr '[A-Z]' '[a-z]' or the other way round should include
?X: us in their dependency and use ./tr instead.
?X:
?MAKE:Tr: startsh tr eunicefix
?MAKE: -pick add $@ %<
?F:./tr
?T:up low
: see whether [:lower:] and [:upper:] are supported character classes
echo " "
case "`echo AbyZ | $tr '[:lower:]' '[:upper:]' 2>/dev/null`"-"`echo AbyZ | $tr '[:upper:]' '[:lower:]' 2>/dev/null`" in
ABYZ-abyz)
 echo "Good, your tr supports [:lower:] and [:upper:] to convert case." >&4
 up='[:upper:]'
 low='[:lower:]'
 ;;
*) # There is a discontinuity in EBCDIC between 'R' and 'S'
 # (0xd9 and 0xe2), therefore that is a nice testing point.
 if test "X$up" = X -o "X$low" = X; then
    case "`echo RS | $tr '[R-S]' '[r-s]' 2>/dev/null`"
 in
    rs) up='[A-Z]'
  low='[a-z]'
  ;;
    esac
 fi
 if test "X$up" = X -o "X$low" = X; then
    case "`echo RS | $tr R-S r-s 2>/dev/null`" in
    rs) up='A-Z'
  low='a-z'
  ;;
    esac
 fi
 if test "X$up" = X -o "X$low" = X; then
    case "`echo RS | od -x 2>/dev/null`" in
    *D9E2*|*d9e2*)
  echo "Hey, this might be EBCDIC." >&4
  if test "X$up" = X -o "X$low" = X; then
     case "`echo RS | $tr '[A-IJ-RS-Z]' '[a-ij-rs-z]' 2>/dev/null`" in
     rs) up='[A-IJ-RS-Z]'
   low='[a-ij-rs-z]'
   ;;
     esac
  fi
  if test "X$up" = X -o "X$low" = X; then
     case "`echo RS | $tr A-IJ-RS-Z a-ij-rs-z 2>/dev/null`" in
     rs) up='A-IJ-RS-Z'
   low='a-ij-rs-z'
   ;;
```

```
     esac
  fi
  ;;
    esac
 fi
esac
case "`echo RS | $tr \"$up\" \"$low\" 2>/dev/null`" in
rs)
   echo "Using $up and $low to convert case." >&4
   ;;
*)
   echo "I don't know how to translate letters from upper to lower case." >&4
   echo "Your tr is not acting any way I know of." >&4
   exit 1
   ;;
esac
:
 set up the translation script tr, must be called with ./tr of course
cat >tr <<EOSC
$startsh
case "\$1\$2" in
'[A-Z][a-z]') exec $tr '$up' '$low';;
'[a-z][A-Z]') exec $tr '$low' '$up';;
esac
exec $tr "\$@"
EOSC
chmod +x tr
$eunicefix tr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Tr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endnetent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_endnetent_r endnetent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_endnetent_r:
?S: This variable conditionally defines the HAS_ENDNETENT_R symbol,
?S: which indicates to the C program that the endnetent_r()
```

```
?S: routine is available.
?S:.
?S:endnetent_r_proto:
?S: This variable encodes the prototype of endnetent_r.
?S: It is zero if d_endnetent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endnetent_r
?S: is defined.
?S:.
?C:HAS_ENDNETENT_R:
?C: This symbol, if defined, indicates that the endnetent_r routine
?C: is
 available to endnetent re-entrantly.
?C:.
?C:ENDNETENT_R_PROTO:
?C: This symbol encodes the prototype of endnetent_r.
?C: It is zero if d_endnetent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endnetent_r
?C: is defined.
?C:.
?H:#$d_endnetent_r HAS_ENDNETENT_R /**/
?H:#define ENDNETENT_R_PROTO $endnetent_r_proto /**/
?H:.
?T:try hdrs d_endnetent_r_proto
: see if endnetent_r exists
set endnetent_r d_endnetent_r
eval $inlibc
case "$d_endnetent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_endnetent_r_proto:$usethreads" in
 ":define") d_endnetent_r_proto=define
  set d_endnetent_r_proto endnetent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_endnetent_r_proto" in
 define)
 case "$endnetent_r_proto" in
 "|0) try='int endnetent_r(struct netent_data*);'
 ./protochk "$extern_C $try" $hdrs && endnetent_r_proto=I_D ;;
 esac
 case "$endnetent_r_proto" in
 "|0) try='void endnetent_r(struct netent_data*);'
 ./protochk
 "$extern_C $try" $hdrs && endnetent_r_proto=V_D ;;
 esac
 case "$endnetent_r_proto" in
 "|0) d_endnetent_r=undef
```

```
  endnetent_r_proto=0
  echo "Disabling endnetent_r, cannot determine prototype." >&4 ;;
 * ) case "$endnetent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) endnetent_r_proto="REENTRANT_PROTO_$endnetent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "endnetent_r has no prototype, not using it." >&4 ;;
  esac
  d_endnetent_r=undef
  endnetent_r_proto=0
  ;;
 esac
 ;;
*) endnetent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_endnetent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setgrps.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setgrps.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setgrps: Inlibc
?MAKE: -pick add $@ %<
?S:d_setgrps:
?S: This variable conditionally defines the HAS_SETGROUPS symbol, which
?S: indicates to the C program that the setgroups() routine is available
?S: to set the list of process groups.
?S:.
?C:HAS_SETGROUPS:
```

```
?C: This symbol, if defined, indicates that the setgroups() routine is
?C: available
 to set the list of process groups.  If unavailable, multiple
?C: groups are probably not supported.
?C:.
?H:#$d_setgrps HAS_SETGROUPS  /**/
?H:.
?LINT:set d_setgrps
: see if setgroups exists
set setgroups d_setgrps
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setgrps.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: cpp_stuff.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cpp_stuff.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:08:24  ram
?RCS: patch36: now uses cppstdin instead of plain cpp for consistency (ADO)
?RCS: patch36: remove temporary files when done
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:36  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:cpp_stuff: cat contains cppstdin cppflags cppminus rm
?MAKE: -pick add $@ %<
?S:cpp_stuff:
?S: This variable contains an identification of the concatenation
 mechanism
?S: used by the C preprocessor.
?S:.
?C:CAT2:
?C: This macro concatenates 2 tokens together.
?C:.
?C:CAT3:
?C: This macro concatenates 3 tokens together.
?C:.
```

```
?C:CAT4:
?C: This macro concatenates 4 tokens together.
?C:.
?C:CAT5:
?C: This macro concatenates 5 tokens together.
?C:.
?C:STRINGIFY:
?C: This macro surrounds its token with double quotes.
?C:.
?C:SCAT2:
?C: This macro concatenates 2 tokens together and stringifies the result.
?C: It might not exist, so #ifdef it in your code!
?C:.
?C:SCAT3:
?C: This macro concatenates 3 tokens together and stringifies the result.
?C: It might not exist, so #ifdef it in your code!
?C:.
?C:SCAT4:
?C: This macro concatenates 4 tokens together and stringifies the result.
?C: It might not exist, so #ifdef it in your code!
?C:.
?C:SCAT5:
?C: This macro concatenates 5 tokens together and stringifies the result.
?C: It might not exist, so #ifdef it in your code!
?C:.
?X: Dist pl70 included the following, but AIX's xlc compiler
?X: (which
 is ANSI-ish and has cpp_stuff == 42)) rejects
?X: The SQuoTe/EQuoTe stuff because the string literals are on
?X: separate lines.  Sigh.
?X:  Andy Dougherty   24 Feb 1998
?X: ?H:?%<:#if $cpp_stuff == 1
?X: ?H:?CAT2:#define CAT2(a,b)a/**/b
?X: ?H:?CAT3:#define CAT3(a,b,c)a/**/b/**/c
?X: ?H:?CAT4:#define CAT4(a,b,c,d)a/**/b/**/c/**/d
?X: ?H:?CAT5:#define CAT5(a,b,c,d,e)a/**/b/**/c/**/d/**/e
?X: ?H:?STRINGIFY:#define STRINGIFY(a)"a"
?X: ?H:?%<:#define SQuoTe(a)"a
?X: ?H:?%<:#define EQuoTe(a)a"
?X: ?H:?SCAT2:#define SCAT2(a,b)EQuoTe(SQuoTe(a)b)
?X: ?H:?SCAT3:#define SCAT3(a,b,c)EQuoTe(SQuoTe(a)b/**/c)
?X: ?H:?SCAT4:#define SCAT4(a,b,c,d)EQuoTe(SQuoTe(a)b/**/c/**/d)
?X: ?H:?SCAT5:#define SCAT5(a,b,c,d,e)EQuoTe(SQuoTe(a)b/**/c/**/d/**/e)
?X: ?H:?%<:#endif
?H:?%<:#if $cpp_stuff == 1
?H:?CAT2:#define CAT2(a,b) a/**/b
?H:?CAT3:#define CAT3(a,b,c) a/**/b/**/c
?H:?CAT4:#define CAT4(a,b,c,d) a/**/b/**/c/**/d
```

```
?H:?CAT5:#define CAT5(a,b,c,d,e) a/**/b/**/c/**/d/**/e
?H:?STRINGIFY:#define STRINGIFY(a) "a"
?X: If
 you can get stringification with catify, tell me how!
?H:?%<:#endif
?H:?%<:#if $cpp_stuff == 42
?H:?%<:#define PeRl_CaTiFy(a, b) a ## b
?H:?%<:#define PeRl_StGiFy(a) #a
?X: The additional level of indirection enables these macros to be
?X: used as arguments to other macros.  See K&R 2nd ed., page 231.
?H:?CAT2:#define CAT2(a,b) PeRl_CaTiFy(a,b)
?H:?CAT3:#define CAT3(a,b,c) CAT2(PeRl_CaTiFy(a,b),c)
?H:?CAT4:#define CAT4(a,b,c,d) CAT2(CAT3(a,b,c),d)
?H:?CAT5:#define CAT5(a,b,c,d,e) CAT2(CAT4(a,b,c,d),e)
?H:?%<:#define StGiFy(a) PeRl_StGiFy(a)
?H:?STRINGIFY:#define STRINGIFY(a) PeRl_StGiFy(a)
?H:?SCAT2:#define SCAT2(a,b) PeRl_StGiFy(a) PeRl_StGiFy(b)
?H:?SCAT3:#define SCAT3(a,b,c) PeRl_StGiFy(a) PeRl_StGiFy(b) PeRl_StGiFy(c)
?H:?SCAT4:#define SCAT4(a,b,c,d) PeRl_StGiFy(a) PeRl_StGiFy(b) PeRl_StGiFy(c) PeRl_StGiFy(d)
?H:?SCAT5:#define SCAT5(a,b,c,d,e) PeRl_StGiFy(a) PeRl_StGiFy(b) PeRl_StGiFy(c) PeRl_StGiFy(d)
PeRl_StGiFy(e)
?H:?%<:#endif
?H:?%<:#if $cpp_stuff != 1 && $cpp_stuff
 != 42
?H:?%<:#include "Bletch: How does this C preprocessor concatenate tokens?"
?H:?%<:#endif
?H:.
?W:%<:CAT2 CAT3 CAT4 CAT5 STRINGIFY SCAT2 SCAT3 SCAT4 SCAT5
?F:!cpp_stuff.c
?LINT:known StGiFy
?LINT:known PeRl_CaTiFy
?LINT:known PeRl_StGiFy
: how do we concatenate cpp tokens here?
echo " "
echo "Checking to see how your cpp does stuff like concatenate tokens..." >&4
$cat >cpp_stuff.c <<'EOCP'
#define RCAT(a,b)a/**/b
#define ACAT(a,b)a ## b
RCAT(Rei,ser)
ACAT(Cir,cus)
EOCP
$cppstdin $cppflags $cppminus <cpp_stuff.c >cpp_stuff.out 2>&1
if $contains 'Circus' cpp_stuff.out >/dev/null 2>&1; then
 echo "Oh!  Smells like ANSI's been here." >&4
 echo "We can catify or stringify, separately or together!"
 cpp_stuff=42
elif $contains 'Reiser' cpp_stuff.out >/dev/null 2>&1; then
 echo "Ah, yes!  The good old days!" >&4
```

```
 echo "However, in the good old days we don't know how to stringify and"
 echo "catify at the same time."
 cpp_stuff=1
else
 $cat >&4 <<EOM
Hmm, I don't seem to be able to concatenate
 tokens with your cpp.
You're going to have to edit the values of CAT[2-5] in config.h...
EOM
?X: It would be nice to have configure remind us at the end that some manual
?X: intervention is needed -- FIXME
 cpp_stuff="/* Help! How do we handle cpp_stuff? */*/"
fi
$rm -f cpp_stuff.*
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/cpp_stuff.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sbrksmart.U,v 3.0.1.2 1995/01/11 15:35:41 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sbrksmart.U,v $
?RCS: Revision 3.0.1.2  1995/01/11  15:35:41  ram
?RCS: patch45: now sets sbrksmart to undef explicitly when lacking sbrk()
?RCS: patch45: forgot a cast when using return value from sbrk()
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:16:45  ram
?RCS: patch16: created
?RCS:
?MAKE:sbrksmart: cat d_sbrk Compile rm
?MAKE: -pick add $@ %<
?S:sbrksmart:
?S: This variable conditionally defines HAS_SMART_SBRK if the sbrk()
?S: routine honors a negative
 argument to lower the break value.
?S:.
?C:HAS_SMART_SBRK:
?C: This symbol is defined when the sbrk() system call may be used with
?C: a negative argument to lower the break value, therefore releasing
```

```
?C: core to the system. If not, you'd probably be better off using the
?C: mmap() system call.
?C:.
?H:#$sbrksmart HAS_SMART_SBRK /**/
?H:.
?T:dumb
?F:!sbrk
: see if sbrk can release core to the kernel
echo " "
case "$d_sbrk" in
"$define")
 echo "Let's see if your sbrk() is smart enough to release core..." >&4
 $cat > sbrk.c <<'EOC'
#define INC 256  /* Small enough to be less than a page size */

int main()
{
 char *obrk = (char *) sbrk(0);
 char *nbrk;

 nbrk = (char *) sbrk(INC);
 if (nbrk == (char *) -1)
  exit(1); /* Not enough memory */
 if (nbrk != obrk)
  exit(2); /* Unreliable sbrk() */
 nbrk = (char *) sbrk(-INC);
 if (nbrk == (char *) -1)
  exit(3); /* May have understood negative arg as huge positive */
 if (obrk != (char *) sbrk(0))
  exit(4); /* Not smart, definitely */

 exit(0);  /*
 Ok */
}
EOC
 sbrksmart="$undef"
 dumb='-- assuming dumb sbrk().'
 set sbrk
 if eval $compile_ok; then
  ./sbrk >/dev/null 2>&1
  case $? in
  0) sbrksmart="$define"
   echo "Yes, it can be used with negative values." ;;
  1) echo "Sorry, not enough memory $dumb" ;;
  2) echo "No it's not, and besides it seems to be buggy..." ;;
  3) echo "No, it fails with negative values." ;;
  4) echo "Nope, your sbrk() is too dumb." ;;
  *) echo "Err... Unexpected result $dumb" ;;
```

```
  esac
 else
  echo "(Could not compile test program $dumb)"
 fi
 ;;
*)
 echo "Since you don't have sbrk(), let's forget about the smart test!"
 sbrksmart="$undef"
 ;;
esac
$rm -f sbrk sbrk.* core
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/sbrksmart.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Whoa.U,v 3.0.1.2 1997/02/28 15:21:21 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Whoa.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:21:21  ram
?RCS: patch61: whoa script now starts with leading "startsh"
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:02:01  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to warn the user in case a change into a variable
 is noticed.
?X:
?X: To use this unit, $was must hold the old value that has changed. Upon
?X: exit, the two variables $td and $tu are set to the correct value for
?X: respectively defining or undefining a variable. For instance, if $vas was
?X: $undef, but now $var is $define, after calling . whoa, you should use
?X: eval "$var=\$tu" to finally set $var to the correct value. See unit Inlibc.
?X:
```

```
?MAKE:Whoa: Myread startsh hint
?MAKE: -pick add $@ %<
?F:./whoa
?T:var was td tu hintfile
: set up the script used to warn in case of inconsistency
cat <<EOS >whoa
$startsh
EOS
cat <<'EOSC' >>whoa
dflt=y
case "$hint" in
   recommended)
 case "$hintfile" in
 ") echo "The $hint value for \$$var on this machine was \"$was\"!" >&4
  ;;
 *) echo "Hmm.  Based on the hints in hints/$hintfile.sh, " >&4
  echo "the $hint value for \$$var on this machine was \"$was\"!" >&4
  ;;
 esac
 ;;
   *) echo " "
 echo "*** WHOA THERE!!! ***" >&4
 echo "    The $hint value for \$$var on this machine was
 \"$was\"!" >&4
 ;;
esac
rp="    Keep the $hint value?"
. ./myread
case "$ans" in
y) td=$was; tu=$was;;
esac
EOSC
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Whoa.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isinf: Inlibc cat Compile rm_try Setvar
?MAKE: -pick add $@ %<
?S:d_isinf:
```

```
?S: This variable conditionally defines the HAS_ISINF symbol, which
?S: indicates to the C program that the isinf() routine is available.
?S:.
?C:HAS_ISINF:
?C: This symbol, if defined, indicates that the isinf routine is
?C: available to check whether a double is an infinity.
?C:.
?H:#$d_isinf HAS_ISINF  /**/
?H:.
?LINT:set d_isinf
: check for isinf
echo "Checking to see if you have isinf..." >&4
$cat >try.c <<EOCP
#include <math.h>
int main() { return isinf(0.0); }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have isinf."
else
 val="$undef"
 echo "You do not have isinf."
fi
$rm_try
set d_isinf
eval $setvar
```

Found
 in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_isinf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: cpp_trad.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cpp_stuff.U,v $
?MAKE:cpp_trad: cpp cat contains rm
?MAKE: -pick add $@ %<
?S:cpp_trad:
```

```
?S: This variable contains the program to run to get traditional C
?S: preprocessor semantics and not ISO C semantics: we want something
?S: that knows as little about C as possible to use as a more general
?S: purpose preprocessor.
?S:.
?F:!foo.c !foo.cpp
: how do we get traditional cpp semantics?
echo " "
echo "Checking to see how to get traditional cpp semantics..."
 >&4
$cat >foo.c <<'EOF'
#define A(x) x
#define B(y) y
A(a)B(b)
EOF
if $cpp foo.c >foo.cpp; $contains ab foo.cpp >/dev/null 2>&1; then
 echo "Plain '$cpp' works just fine."
 cpp_trad="$cpp"
elif $cpp -traditional foo.c >foo.cpp; \
 $contains ab foo.cpp >/dev/null 2>&1; then
 echo "We'll use '$cpp -traditional' to get proper semantics."
 cpp_trad="$cpp -traditional"
else
 echo "I don't know how to get traditional semantics with '$cpp'." >&4
 cpp_trad="$cpp"
fi
$rm -f foo.c foo.cpp
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/cpp_trad.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_termio.U,v $
?RCS: Revision 3.0.1.4  1994/10/29  16:20:54  ram
?RCS: patch36: call ./usg and ./Cppsym explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.3  1994/08/29  16:26:38  ram
```

```
?RCS: patch32: don't include all three I_* symbols in config.h
?RCS: patch32: (had forgotten to undo this part last time)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:25:03  ram
?RCS: patch27: undone ADO's fix in previous patch since it was useless
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:05:23
 ram
?RCS: patch23: now include all three defines in config.h (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_termio i_sgtty i_termios: test Inlibc Cppsym Guess Setvar Findhdr Warn
?MAKE: -pick add $@ %<
?S:i_termio:
?S: This variable conditionally defines the I_TERMIO symbol, which
?S: indicates to the C program that it should include <termio.h> rather
?S: than <sgtty.h>.
?S:.
?S:i_termios:
?S: This variable conditionally defines the I_TERMIOS symbol, which
?S: indicates to the C program that the POSIX <termios.h> file is
?S: to be included.
?S:.
?S:i_sgtty:
?S: This variable conditionally defines the I_SGTTY symbol, which
?S: indicates to the C program that it should include <sgtty.h> rather
?S: than <termio.h>.
?S:.
?C:I_TERMIO:
?C: This symbol, if defined, indicates that the program should include
?C: <termio.h> rather than <sgtty.h>.  There are also differences in
?C: the ioctl() calls that depend on the value of
 this symbol.
?C:.
?C:I_TERMIOS:
?C: This symbol, if defined, indicates that the program should include
?C: the POSIX termios.h rather than sgtty.h or termio.h.
?C: There are also differences in the ioctl() calls that depend on the
?C: value of this symbol.
?C:.
?C:I_SGTTY:
?C: This symbol, if defined, indicates that the program should include
?C: <sgtty.h> rather than <termio.h>.  There are also differences in
?C: the ioctl() calls that depend on the value of this symbol.
?C:.
?H:#$i_termio I_TERMIO  /**/
```

```
?H:#$i_termios I_TERMIOS  /**/
?H:#$i_sgtty I_SGTTY  /**/
?H:.
?T:val2 val3
?LINT:set i_termio i_sgtty i_termios
: see if this is a termio system
val="$undef"
val2="$undef"
val3="$undef"
?X: Prefer POSIX-approved termios.h over all else
if $test `./findhdr termios.h`; then
 set tcsetattr i_termios
 eval $inlibc
 val3="$i_termios"
fi
echo " "
case "$val3" in
"$define") echo "You have POSIX termios.h... good!" >&4;;
*) if ./Cppsym pyr; then
  case "`/bin/universe`" in
  ucb) if $test `./findhdr
 sgtty.h`; then
    val2="$define"
    echo "<sgtty.h> found." >&4
   else
    echo "System is pyramid with BSD universe."
    ./warn "<sgtty.h> not found--you could have problems."
   fi;;
  *) if $test `./findhdr termio.h`; then
    val="$define"
    echo "<termio.h> found." >&4
   else
    echo "System is pyramid with USG universe."
    ./warn "<termio.h> not found--you could have problems."
   fi;;
  esac
?X: Start with USG to avoid problems if both usg/bsd was guessed
 elif ./usg; then
  if $test `./findhdr termio.h`; then
   echo "<termio.h> found." >&4
   val="$define"
  elif $test `./findhdr sgtty.h`; then
   echo "<sgtty.h> found." >&4
   val2="$define"
  else
   ./warn "Neither <termio.h> nor <sgtty.h> found--cross fingers!"
  fi
 else
```

```
  if $test `./findhdr sgtty.h`; then
   echo "<sgtty.h> found." >&4
   val2="$define"
  elif $test `./findhdr termio.h`; then
   echo "<termio.h> found." >&4
   val="$define"
  else
   ./warn "Neither <sgtty.h> nor <termio.h> found--cross
 fingers!"
  fi
 fi;;
esac
set i_termio; eval $setvar
val=$val2; set i_sgtty; eval $setvar
val=$val3; set i_termios; eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_termio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: mallocsrc.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:10:26  ram
?RCS: patch61: added support for Free_t, the type of free()
?RCS: patch61: replaced .o with $_o all over the place
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:10:46  ram
?RCS: patch23: added support for MYMALLOC, mainly  for perl5 (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:12  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:mallocsrc mallocobj usemymalloc malloctype d_mymalloc \
 freetype: Myread \
 Oldconfig
 package Guess Setvar rm cat +cc +ccflags Findhdr \
 i_malloc i_stdlib sed libs _o ptrsize
?MAKE: -pick add $@ %<
```

```
?X: Put near top so that other tests don't erroneously include
?X: -lmalloc.  --AD  22 June 1998
?Y:TOP
?S:usemymalloc:
?S: This variable contains y if the malloc that comes with this package
?S: is desired over the system's version of malloc.  People often include
?S: special versions of malloc for effiency, but such versions are often
?S: less portable.  See also mallocsrc and mallocobj.
?S: If this is 'y', then -lmalloc is removed from $libs.
?S:.
?S:mallocsrc:
?S: This variable contains the name of the malloc.c that comes with
?S: the package, if that malloc.c is preferred over the system malloc.
?S: Otherwise the value is null.  This variable is intended for generating
?S: Makefiles.
?S:.
?S:d_mymalloc:
?S: This variable conditionally defines MYMALLOC in case other parts
?S: of the source want to take special action if MYMALLOC is used.
?S: This may include different sorts
 of profiling or error detection.
?S:.
?S:mallocobj:
?S: This variable contains the name of the malloc.o that this package
?S: generates, if that malloc.o is preferred over the system malloc.
?S: Otherwise the value is null.  This variable is intended for generating
?S: Makefiles.  See mallocsrc.
?S:.
?S:freetype:
?S: This variable contains the return type of free().  It is usually
?S: void, but occasionally int.
?S:.
?S:malloctype:
?S: This variable contains the kind of ptr returned by malloc and realloc.
?S:.
?C:Free_t:
?C: This variable contains the return type of free().  It is usually
?C: void, but occasionally int.
?C:.
?C:Malloc_t (MALLOCPTRTYPE):
?C: This symbol is the type of pointer returned by malloc and realloc.
?C:.
?H:#define Malloc_t $malloctype   /**/
?H:#define Free_t $freetype   /**/
?H:.
?C:MYMALLOC:
?C: This symbol, if defined, indicates that we're using our own malloc.
?C:.
```

```
?H:#$d_mymalloc MYMALLOC   /**/
?H:.
?LINT:change libs
?X: Cannot test for mallocsrc; it
 is the unit's name and there is a bug in
?X: the interpreter which defines all the names, even though they are not used.
@if mallocobj
: determine which malloc to compile in
echo " "
case "$usemymalloc" in
[yY]*|true|$define) dflt='y' ;;
[nN]*|false|$undef) dflt='n' ;;
*)
 case "$ptrsize" in
 4) dflt='y' ;;
 *) dflt='n' ;;
 esac
 ;;
esac
rp="Do you wish to attempt to use the malloc that comes with $package?"
. ./myread
usemymalloc="$ans"
case "$ans" in
y*|true)
 usemymalloc='y'
 mallocsrc='malloc.c'
 mallocobj="malloc$_o"
 d_mymalloc="$define"
?X: Maybe libs.U should be dependent on mallocsrc.U, but then
?X: most packages that use dist probably don't supply their own
?X: malloc, so this is probably an o.k. comprpomise
 case "$libs" in
 *-lmalloc*)
  : Remove malloc from list of libraries to use
  echo "Removing unneeded -lmalloc from library list" >&4
  set `echo X $libs | $sed -e 's/-lmalloc / /' -e 's/-lmalloc$//'`
  shift
  libs="$*"
  echo "libs = $libs" >&4
  ;;
 esac
 ;;
*)
 usemymalloc='n'
 mallocsrc=''
 mallocobj=''
 d_mymalloc="$undef"
 ;;
```

```
esac

@end
@if
 MALLOCPTRTYPE || Malloc_t || Free_t
: compute the return types of malloc and free
echo " "
$cat >malloc.c <<END
#$i_malloc I_MALLOC
#$i_stdlib I_STDLIB
#include <stdio.h>
#include <sys/types.h>
#ifdef I_MALLOC
#include <malloc.h>
#endif
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#ifdef TRY_MALLOC
void *malloc();
#endif
#ifdef TRY_FREE
void free();
#endif
END
@if MALLOCPTRTYPE || Malloc_t
case "$malloctype" in
")
 if $cc $ccflags -c -DTRY_MALLOC malloc.c >/dev/null 2>&1; then
  malloctype='void *'
 else
  malloctype='char *'
 fi
 ;;
esac
echo "Your system wants malloc to return '$malloctype', it would seem." >&4
@end

@if Free_t
case "$freetype" in
")
 if $cc $ccflags -c -DTRY_FREE malloc.c >/dev/null 2>&1; then
  freetype='void'
 else
  freetype='int'
 fi
 ;;
esac
```

```
echo "Your system uses $freetype free(), it would seem." >&4
@end
$rm -f malloc.[co]
@end
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/mallocsrc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_systimes.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_systimes.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_systimes: Inhdr
?MAKE: -pick add $@ %<
?S:i_systimes:
?S: This variable conditionally defines the I_SYS_TIMES symbol, and indicates
?S: whether a C program should include <sys/times.h>.
?S:.
?C:I_SYS_TIMES (I_SYSTIMES):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/times.h>.
?C:.
?H:#$i_systimes I_SYS_TIMES  /**/
?H:.
?LINT:set
 i_systimes
: see if this is a sys/times.h system
set sys/times.h i_systimes
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_systimes.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: perl5.U,v $
```

```
?RCS:
?RCS: Copyright (c) 2000 Andrew Dougherty
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: perl5.U,v $
?RCS:
?X:
?X: The purpose of this unit is to locate a previously installed
?X: version of perl5 suitable for running inc_version_list.U.
?X: We check for 5.005 and later because inc_version_list is
?X: irrelevant for earlier versions.
?X:
?MAKE:perl5: path_sep binexp test sed exe_ext
?MAKE: -pick add $@ %<
?Y:TOP
?S:perl5:
?S: This variable contains the full path (if any) to a previously
?S: installed perl5.005 or later suitable for running the script
?S: to determine inc_version_list.
?S:.
?T: tdir
: Find perl5.005 or later.
echo "Looking for a previously installed perl5.005 or later... "
case "$perl5" in
") for tdir in `echo "$binexp$path_sep$PATH" | $sed "s/$path_sep/
 /g"`; do
  : Check if this perl is recent and can load a simple module
  if $test -x $tdir/perl$exe_ext && $tdir/perl -Mless -e 'use 5.005;' >/dev/null 2>&1; then
   perl5=$tdir/perl
   break;
  elif $test -x $tdir/perl5$exe_ext && $tdir/perl5 -Mless -e 'use 5.005;' >/dev/null 2>&1; then
   perl5=$tdir/perl5
   break;
  fi
 done
 ;;
*) perl5="$perl5"
 ;;
esac
case "$perl5" in
") echo "None found.  That's ok.";;
*) echo "Using $perl5." ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/installdirs/perl5.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_dbminitproto: Hasproto i_dbm
?MAKE: -pick add $@ %<
?S:d_dbminitproto:
?S: This variable conditionally defines the HAS_DBMINIT_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the dbminit() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_DBMINIT_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the dbminit() function.  Otherwise, it is up
?C: to the program to supply one.  A good guess is
?C:  extern
 int dbminit(char *);
?C:.
?H:#$d_dbminitproto HAS_DBMINIT_PROTO /**/
?H:.
?LINT:set d_dbminitproto
: see if prototype for dbminit is available
echo " "
set d_dbminitproto dbminit $i_dbm dbm.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_dbminitproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_isascii.U,v 3.0.1.2 1994/10/29 16:13:39 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_isascii.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:13:39  ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:09:32  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_isascii: Compile cat rm Setvar i_stdlib
?MAKE: -pick add $@ %<
?S:d_isascii:
?S: This variable conditionally defines the HAS_ISASCII constant,
?S: which indicates
 to the C program that isascii() is available.
?S:.
?C:HAS_ISASCII:
?C: This manifest constant lets the C program know that isascii
?C: is available.
?C:.
?H:#$d_isascii HAS_ISASCII  /**/
?H:.
?LINT:set d_isascii
?X: Can't use Inlibc because isascii() might be a macro.
: Look for isascii
echo " "
$cat >isascii.c <<EOCP
#include <stdio.h>
#include <ctype.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() {
 int c = 'A';
 if (isascii(c))
  exit(0);
 else
  exit(1);
}
EOCP
set isascii
if eval $compile; then
 echo "isascii() found." >&4
 val="$define"
```

```
else
 echo "isascii() NOT found." >&4
 val="$undef"
fi
set d_isascii
eval $setvar
$rm -f isascii*
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_isascii.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_mbstowcs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_mbstowcs.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:29  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_mbstowcs: Inlibc
?MAKE: -pick add $@ %<
?S:d_mbstowcs:
?S: This variable conditionally defines the HAS_MBSTOWCS symbol, which
?S: indicates to the C program that the mbstowcs() routine is available
?S: to convert a multibyte string into a wide character string.
?S:.
?C:HAS_MBSTOWCS (MBSTOWCS):
?C: This symbol, if defined, indicates
 that the mbstowcs routine is
?C: available to convert a multibyte string into a wide character string.
?C:.
?H:#$d_mbstowcs HAS_MBSTOWCS  /**/
?H:.
?LINT:set d_mbstowcs
: see if mbstowcs exists
set mbstowcs d_mbstowcs
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/dist/U/d_mbstowcs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_socket.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:46:00  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:08:04  ram
?RCS: patch16: can now safely declare private nm_extract in dependencies
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_socket d_oldsock d_sockpair socketlib sockethdr: contains libc \
 echo n c nm_opt nm_extract Inlibc Csym _a
?MAKE: -pick add $@ %<
?S:d_socket:
?S: This
 variable conditionally defines HAS_SOCKET, which indicates
?S: that the BSD socket interface is supported.
?S:.
?S:d_sockpair:
?S: This variable conditionally defines the HAS_SOCKETPAIR symbol, which
?S: indicates that the BSD socketpair() is supported.
?S:.
?S:d_oldsock:
?S: This variable conditionally defines the OLDSOCKET symbol, which
?S: indicates that the BSD socket interface is based on 4.1c and not 4.2.
?S:.
?S:socketlib:
?S: This variable has the names of any libraries needed for socket support.
?S:.
?S:sockethdr:
?S: This variable has any cpp -I flags needed for socket support.
?S:.
?C:HAS_SOCKET (SOCKET):
?C: This symbol, if defined, indicates that the BSD socket interface is
?C: supported.
```

```
?C:.
?C:HAS_SOCKETPAIR (SOCKETPAIR):
?C: This symbol, if defined, indicates that the BSD socketpair() call is
?C: supported.
?C:.
?C:USE_OLDSOCKET (OLDSOCKET):
?C: This symbol, if defined, indicates that the 4.1c BSD socket interface
?C: is supported instead of the 4.2/4.3 BSD
 socket interface. For instance,
?C: there is no setsockopt() call.
?C:.
?H:#$d_socket HAS_SOCKET  /**/
?H:#$d_sockpair HAS_SOCKETPAIR /**/
?H:#$d_oldsock USE_OLDSOCKET /**/
?H:.
?T:val
?LINT:use libc
?LINT:set d_sockpair
: see whether socket exists
socketlib=''
sockethdr=''
echo " "
$echo $n "Hmm... $c" >&4
if set socket val -f d_socket; eval $csym; $val; then
 echo "Looks like you have Berkeley networking support." >&4
 d_socket="$define"
?X: now check for advanced features
 if set setsockopt val -f; eval $csym; $val; then
  d_oldsock="$undef"
 else
  echo "...but it uses the old 4.1c interface, rather than 4.2" >&4
  d_oldsock="$define"
 fi
else
?X: HP-UX, for one, puts all the socket stuff in socklib.o. Note that if we
?X: come here on HP-UX, then we must have used nm to get symbols, or we really
?X: don't have sockets anyway...
 if $contains socklib libc.list >/dev/null 2>&1; then
  echo "Looks like you have Berkeley networking support." >&4
  d_socket="$define"
  : we will have
 to assume that it supports the 4.2 BSD interface
  d_oldsock="$undef"
 else
  echo "You don't have Berkeley networking in libc$_a..." >&4
?X: look for an optional networking library
  if test -f /usr/lib/libnet$_a; then
?X: space between two  '(' needed for ksh
```

```
   ( (nm $nm_opt /usr/lib/libnet$_a | eval $nm_extract) ||  \
   ar t /usr/lib/libnet$_a) 2>/dev/null >> libc.list
   if $contains socket libc.list >/dev/null 2>&1; then
   echo "...but the Wollongong group seems to have hacked it in." >&4
    socketlib="-lnet"
    sockethdr="-I/usr/netinclude"
    d_socket="$define"
?X: now check for advanced features
    if $contains setsockopt libc.list >/dev/null 2>&1; then
     d_oldsock="$undef"
    else
     echo "...using the old 4.1c interface, rather than 4.2" >&4
     d_oldsock="$define"
    fi
   else
    echo "or even in libnet$_a, which is peculiar." >&4
    d_socket="$undef"
    d_oldsock="$undef"
   fi
  else
   echo "or anywhere else I see." >&4
   d_socket="$undef"
   d_oldsock="$undef"
  fi
 fi
fi

@if
 HAS_SOCKETPAIR || d_sockpair
: see if socketpair exists
set socketpair d_sockpair
eval $inlibc

@end
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_socket.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysioctl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysioctl.U,v $
?RCS: Revision 3.0.1.2  1994/05/06  15:04:57  ram
?RCS: patch23: added knowledge for <sys/filio.h> (WED)
?RCS: patch23: optimized amount of findhdr calls
?RCS:
?RCS: Revision 3.0.1.1  1993/11/10  17:36:09  ram
?RCS: patch14: now use a compiler check for TIOCNOTTY because of HP-UX 9.x
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:32  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_sysioctl i_bsdioctl i_sysfilio i_syssockio
 d_voidtty: test contains \
 cat i_termio i_termios i_sgtty Setvar Findhdr +cc rm Inhdr
?MAKE: -pick add $@ %<
?S:i_sysioctl:
?S: This variable conditionally defines the I_SYS_IOCTL symbol, which
?S: indicates to the C program that <sys/ioctl.h> exists and should
?S: be included.
?S:.
?S:i_sysfilio:
?S: This variable conditionally defines the I_SYS_FILIO symbol, which
?S: indicates to the C program that <sys/filio.h> exists and should
?S: be included in preference to <sys/ioctl.h>.
?S:.
?S:i_bsdioctl:
?S: This variable conditionally defines the I_SYS_BSDIOCTL symbol, which
?S: indicates to the C program that <sys/bsdioctl.h> exists and should
?S: be included.
?S:.
?S:i_syssockio:
?S: This variable conditionally defines I_SYS_SOCKIO to indicate to the
?S: C program that socket ioctl codes may be found in <sys/sockio.h>
?S: instead of <sys/ioctl.h>.
?S:.
?S:d_voidtty:
?S: This variable conditionally defines USE_IOCNOTTY to indicate that the
?S: ioctl() call with TIOCNOTTY should be used
 to void tty association.
?S: Otherwise (on USG probably), it is enough to close the standard file
?S: descriptors and do a setpgrp().
?S:.
?C:I_SYS_IOCTL (I_SYSIOCTL):
?C: This symbol, if defined, indicates that <sys/ioctl.h> exists and should
?C: be included. Otherwise, include <sgtty.h> or <termio.h>.
?C:.
```

```
?C:I_SYS_FILIO:
?C: This symbol, if defined, indicates that <sys/filio.h> exists and
?C: should be included instead of <sys/ioctl.h>.
?C:.
?C:I_SYS_BSDIOCTL (I_BSDIOCTL):
?C: This symbol, if defined, indicates that <sys/bsdioctl.h> exists and should
?C: be included. Otherwise, try <sys/ioctl.h>. This is primarly intended for
?C: definitions of sockets options, like SIOCATMARK.
?C:.
?C:I_SYS_SOCKIO (I_SYSSOCKIO):
?C: This symbol, if defined, indicates the <sys/sockio.h> should be included
?C: to get socket ioctl options, like SIOCATMARK.
?C:.
?C:USE_TIOCNOTTY (VOIDTTY):
?C: This symbol, if defined indicate to the C program that the ioctl()
?C: call with TIOCNOTTY should be used
 to void tty association.
?C: Otherwise (on USG probably), it is enough to close the standard file
?C: descriptors and do a setpgrp().
?C:.
?H:#$i_sysioctl I_SYS_IOCTL  /**/
?H:#$i_sysfilio I_SYS_FILIO  /**/
?H:#$i_bsdioctl I_SYS_BSDIOCTL  /**/
?H:#$i_syssockio I_SYS_SOCKIO /**/
?H:#$d_voidtty USE_TIOCNOTTY /**/
?H:.
?T:xxx
: see if ioctl defs are in sgtty, termio, sys/filio or sys/ioctl
?LINT:set i_sysfilio
set sys/filio.h i_sysfilio
eval $inhdr
echo " "
if $test `./findhdr sys/ioctl.h`; then
 val="$define"
 echo '<sys/ioctl.h> found.' >&4
else
 val="$undef"
 if $test $i_sysfilio = "$define"; then
     echo '<sys/ioctl.h> NOT found.' >&4
 else
  $test $i_sgtty = "$define" && xxx="sgtty.h"
  $test $i_termio = "$define" && xxx="termio.h"
  $test $i_termios = "$define" && xxx="termios.h"
echo "No <sys/ioctl.h> found, assuming ioctl args are defined in <$xxx>." >&4
 fi
fi
?LINT:set i_sysioctl
set i_sysioctl
```

```
eval $setvar

@if I_BSDIOCTL || i_bsdioctl
?X:
?X: The only machine I know where this
 inclusion was necessary is a
?X: BULL DPX 5000 (a French machine).
?X:
: see if socket ioctl defs are in sys/bsdioctl or sys/ioctl
echo " "
xxx=`./findhdr sys/bsdioctl.h`
if $test "$xxx"; then
 if $contains SIOCATMARK $xxx >/dev/null 2>&1; then
  val="$define"
  echo "You have socket ioctls defined in <sys/bsdioctl.h>." >&4
 else
  val="$undef"
  echo "No socket ioctls found in <sys/bsdioctl.h>." >&4
 fi
else
 val="$undef"
 echo "<sys/bsdioctl.h> not found, but that's ok." >&4
fi
?LINT:set i_bsdioctl
set i_bsdioctl
eval $setvar

@end
@if I_SYSSOCKIO || i_syssockio
: see if socket ioctl defs are in sys/sockio.h
echo " "
xxx=`./findhdr sys/sockio.h`
if $test "$xxx"; then
 if $contains SIOCATMARK $xxx >/dev/null 2>&1; then
  val="$define"
  echo "You have socket ioctls defined in <sys/sockio.h>." >&4
 else
  val="$undef"
  echo "No socket ioctls found in <sys/sockio.h>." >&4
 fi
else
 val="$undef"
@if I_BSDIOCTL
 case "$i_bsdioctl" in
 "$define") $cat <<EOM
<sys/sockio.h> not found, using
 ioctls from <sys/bsdioctl.h>.
EOM
```

```
 ;;
 *) $cat <<EOM
<sys/sockio.h> not found, assuming socket ioctls are in <sys/ioctl.h>.
EOM
 ;;
 esac
@else
 $cat <<EOM
<sys/sockio.h> not found, assuming socket ioctls are in <sys/ioctl.h>.
EOM
@end
fi
?LINT:set i_syssockio
set i_syssockio
eval $setvar

@end
@if VOIDTTY || d_voidtty
: check how to void tty association
echo " "
case "$i_sysioctl" in
"$define") xxx='sys/ioctl.h';;
?X: otherwise $xxx was set during the determination of i_sysioctl, above.
esac
?X:
?X: Can't use $contains here since HP-UX 9.x has TIOCNOTTY between a pair
?X: of #ifdef/#endif and is never actually defined. Oh well...
?X:
$cat > tcio.c <<EOM
#include <sys/types.h> /* Just in case */
#include <$xxx>

int main()
{
#ifdef TIOCNOTTY
 exit(0);
#else
 exit(1);
#endif
}
EOM
if ($cc -o tcio tcio.c && ./tcio) >/dev/null 2>&1; then
 val="$define"
 echo "TIOCNOTTY found in <$xxx>." >&4
 echo "Using ioctl() call on /dev/tty to void tty association." >&4
else
 val="$undef"
 echo "Closing
```

```
 standard file descriptors should void tty association." >&4
fi
?LINT:set d_voidtty
set d_voidtty
eval $setvar
$rm -f tcio tcio.? core

@end
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sysioctl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Signal.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Signal.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:20:01  ram
?RCS: patch61: created
?RCS:
?X:
?X: This unit produces three files:
?X: 1- A signal.c file, which, when compiled and run, produces an output like:
?X:
?X:   HUP 1
?X:   INT 2
?X:   QUIT 3
?X:   etc...
?X:
?X: 2- A signal.awk script to parse the output of signal.c, fill
?X: in gaps (up to NSIG) and move duplicates to the end.
?X: 3- A signal_cmd script to compile signal.c and run it
?X: through
 sort -n -k 2 | uniq | awk -f signal.awk.
?X: (we try also sort -n +1 since some old hosts don't grok sort -k)
?X: (This is called signal_cmd to avoid OS/2 confusion with
?X: signal.cmd vs. signal.
?X: The signal_cmd script also falls back on checking signals one at a
?X: time in case the signal.c program fails.  On at least one version of
?X: Linux 2.1.x, the header file #define'd SIGRTMAX to a symbol that
```

```
?X: is not defined by the compiler/linker. :-(.  Further, on that same
?X: version of Linux, the user had a defective C-shell that gave an
?X: incorrect list for kill -l, so the fall-back didn't work.
?X:
?X: This unit is then used by sig_name.U.
?X:
?MAKE:Signal: test tr rm awk cat grep startsh eunicefix sed sort uniq \
 Findhdr cppstdin +cppflags cppminus Compile _o _exe trnl run i_stdlib \
 sysroot
?MAKE: -pick add $@ %<
?X:all files declared as "public" since they're used from other units
?F:signal.c signal_cmd signal.lst signal signal.awk
?T: xx xxx xxxfiles
?LINT:use rm run
 _o _exe
?LINT:extern sig_num_init
: Trace out the files included by signal.h, then look for SIGxxx names.
?X: Remove SIGARRAYSIZE used by HPUX.
?X: Remove SIGSTKSIZE used by Linux.
?X: Remove SIGSTKSZ used by POSIX.
?X: Remove SIGTYP void lines used by OS2.
?X: Some cpps, like os390, do not give the file name anywhere
case "$sig_num_init" in
")
if [ "X$fieldn" = X ]; then
 : Just make some guesses.  We check them later.
 xxx="$sysroot/usr/include/signal.h $sysroot/usr/include/sys/signal.h"
else
 xxx=`echo '#include <signal.h>' |
 $cppstdin $cppminus $cppflags 2>/dev/null |
 $grep '^[  ]*#.*include' |
 $awk "{print \\$$fieldn}" | $sed 's!"!!g' |\
  $sed 's!\\\\\\\\!/!g' | $sort | $uniq`
fi
?X: Check this list of files to be sure we have parsed the cpp output ok.
?X: This will also avoid potentially non-existent files, such
?X: as ../foo/bar.h
xxxfiles="
?X: Add /dev/null in case the $xxx list is empty.
for xx in $xxx /dev/null ; do
 $test -f "$xx" && xxxfiles="$xxxfiles $xx"
done
?X:
 If we have found no files, at least try signal.h
case "$xxxfiles" in
") xxxfiles=`./findhdr signal.h` ;;
esac
xxx=`awk '
```

```
$1 ~ /^#define$/ && $2 ~ /^SIG[A-Z0-9]*$/ && $2 !~ /SIGARRAYSIZE/ && $2 !~ /SIGSTKSIZE/ && $2 !~
/SIGSTKSZ/ && $3 !~ /void/ {
 print substr($2, 4, 20)
}
$1 == "#" && $2 ~ /^define$/ && $3 ~ /^SIG[A-Z0-9]*$/ && $3 !~ /SIGARRAYSIZE/ && $4 !~ /void/ {
 print substr($3, 4, 20)
}' $xxxfiles`
: Append some common names just in case the awk scan failed.
xxx="$xxx ABRT ALRM BUS CANCEL CHLD CLD CONT DIL EMT FPE"
xxx="$xxx FREEZE HUP ILL INT IO IOT KILL LOST LWP PHONE"
xxx="$xxx PIPE POLL PROF PWR QUIT RTMAX RTMIN SEGV STKFLT STOP"
xxx="$xxx SYS TERM THAW TRAP TSTP TTIN TTOU URG USR1 USR2"
xxx="$xxx USR3 USR4 VTALRM WAITING WINCH WIND WINDOW XCPU XFSZ"

: generate a few handy files for later
$cat > signal.c <<EOCP
#include <sys/types.h>
#include <signal.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <stdio.h>
int main() {

/* Strange style to avoid
 deeply-nested #if/#else/#endif */
#ifndef NSIG
#  ifdef _NSIG
#    define NSIG (_NSIG)
#  endif
#endif

#ifndef NSIG
#  ifdef SIGMAX
#    define NSIG (SIGMAX+1)
#  endif
#endif

#ifndef NSIG
#  ifdef SIG_MAX
#    define NSIG (SIG_MAX+1)
#  endif
#endif

#ifndef NSIG
#  ifdef _SIG_MAX
#    define NSIG (_SIG_MAX+1)
```

```
#  endif
#endif

#ifndef NSIG
#  ifdef MAXSIG
#    define NSIG (MAXSIG+1)
#  endif
#endif

#ifndef NSIG
#  ifdef MAX_SIG
#    define NSIG (MAX_SIG+1)
#  endif
#endif

#ifndef NSIG
#  ifdef SIGARRAYSIZE
#    define NSIG SIGARRAYSIZE /* Assume ary[SIGARRAYSIZE] */
#  endif
#endif

#ifndef NSIG
#  ifdef _sys_nsig
#    define NSIG (_sys_nsig) /* Solaris 2.5 */
#  endif
#endif

/* Default to some arbitrary number that's big enough to get most
  of the common signals.
*/
#ifndef NSIG
#    define NSIG 50
#endif

printf("NSIG %d\n", NSIG);

#ifndef JUST_NSIG

EOCP

echo $xxx | $tr ' ' $trnl | $sort | $uniq | $awk '
{
 printf "#ifdef SIG"; printf $1; printf "\n"
 printf "printf(\"";
 printf $1; printf " %%d\\n\",SIG";
 printf $1; printf ");\n"
 printf "#endif\n"
}
```

```
END {
 printf "#endif /* JUST_NSIG */\n";
 printf "exit(0);\n}\n";
}
' >>signal.c
$cat >signal.awk <<'EOP'
BEGIN { ndups = 0 }
$1 ~ /^NSIG$/ { nsig = $2 }
($1 !~ /^NSIG$/) && (NF == 2) && ($2 ~ /^[0-9][0-9]*$/) {
   if ($2 > maxsig) { maxsig = $2 }
   if (sig_name[$2]) {
 dup_name[ndups] = $1
 dup_num[ndups] = $2
 ndups++
   }
   else {
 sig_name[$2] = $1
 sig_num[$2] = $2
   }
}
END {
   if (nsig == 0) {
    nsig = maxsig + 1
   }
   printf("NSIG %d\n", nsig);
   for (n = 1; n < nsig; n++) {
 if (sig_name[n]) {
     printf("%s %d\n", sig_name[n], sig_num[n])
 }
 else {
     printf("NUM%d %d\n", n, n)
 }
   }
   for (n = 0; n < ndups; n++) {
 printf("%s %d\n", dup_name[n], dup_num[n])
   }
}
EOP
$cat >signal_cmd <<EOS
$startsh
if $test -s signal.lst; then
   echo "Using your existing signal.lst file"
 exit 0
fi
xxx="$xxx"
EOS
?X: Avoid variable interpolation problems, especially with
?X:
```

```
 xxx, which contains newlines.
$cat >>signal_cmd <<'EOS'

set signal
if eval $compile_ok; then
 $run ./signal$_exe | ($sort -n -k 2 2>/dev/null || $sort -n +1) |\
  $uniq | $awk -f signal.awk >signal.lst
else
 echo "(I can't seem be able to compile the whole test program)" >&4
 echo "(I'll try it in little pieces.)" >&4
 set signal -DJUST_NSIG
 if eval $compile_ok; then
  $run ./signal$_exe > signal.nsg
  $cat signal.nsg
 else
  echo "I can't seem to figure out how many signals you have." >&4
  echo "Guessing 50." >&4
  echo 'NSIG 50' > signal.nsg
 fi
 : Now look at all the signal names, one at a time.
 for xx in `echo $xxx | $tr ' ' $trnl | $sort | $uniq`; do
  $cat > signal.c <<EOCP
#include <sys/types.h>
#include <signal.h>
#include <stdio.h>
int main() {
printf("$xx %d\n", SIG${xx});
return 0;
}
EOCP
  set signal
  if eval $compile; then
   echo "SIG${xx} found."
   $run ./signal$_exe  >> signal.ls1
  else
   echo "SIG${xx} NOT found."
  fi
 done
 if $test -s signal.ls1; then
  $cat
 signal.nsg signal.ls1 |
   $sort -n | $uniq | $awk -f signal.awk >signal.lst
 fi

fi
if $test -s signal.lst; then
 :
else
```

```
 echo "(AAK! I can't compile the test programs -- Guessing)" >&4
 echo 'kill -l' >signal
 set X `csh -f <signal`
 $rm -f signal
 shift
 case $# in
 0) set HUP INT QUIT ILL TRAP ABRT EMT FPE KILL BUS SEGV SYS PIPE ALRM TERM;;
 esac
 echo $@ | $tr ' ' $trnl | \
     $awk '{ printf "%s %d\n", $1, ++s; }
    END { printf "NSIG %d\n", ++s }' >signal.lst
fi
$rm -f signal.c signal$_exe signal$_o signal.nsg signal.ls1
EOS
chmod a+x signal_cmd
$eunicefix signal_cmd
;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Signal.U
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```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fstatfs : Inlibc
?MAKE: -pick add $@ %<
?S:d_fstatfs:
?S: This variable conditionally defines the HAS_FSTATFS symbol, which
?S: indicates to the C program that the fstatfs() routine is available.
?S:.
?C:HAS_FSTATFS:
?C: This symbol, if defined, indicates that the fstatfs routine is
?C: available to stat filesystems by file descriptors.
?C:.
?H:#$d_fstatfs HAS_FSTATFS  /**/
?H:.
?LINT:set d_fstatfs
: see if fstatfs exists
set fstatfs d_fstatfs
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fstatfs.U
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```
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_wcscmp: Compile cat rm_try run Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_wcscmp:
?S: This variable conditionally defines the HAS_WCSCMP symbol if the
?S: wcscmp() routine is available and can be used to compare wide
?S: character strings.
?S:.
?C:HAS_WCSCMP:
?C: This symbol, if defined, indicates that the wcscmp routine is
?C: available to compare two wide character strings.
?C:.
?H:#$d_wcscmp HAS_WCSCMP /**/
?H:.
?F:!try
?LINT: set d_wcscmp
: look for wcscmp
echo " "
$cat >try.c <<'EOCP'
#include <stdio.h>
#include
 <wchar.h>
int main ()
{
   wchar_t *s = L" ";
   return (wcscmp (s, s) ? 1 : 0);
   }
EOCP
set try
?X: if $cc $ccflags $ldflags -o try try.c $libs >/dev/null 2>&1 ; then
val="$undef"
if eval $compile; then
   `$run ./try`
   case "$?" in
 0)  echo "A working wcscmp() found." >&4
     val="$define" ;;
```

```
 *)  echo "wcscmp() found, but it doesn't work" >&4
     ;;
 esac
else
   echo "wcscmp() NOT found." >&4
   fi
set d_wcscmp
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_wcscmp.U
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_ustat: Inlibc
?MAKE: -pick add $@ %<
?S:d_ustat:
?S: This variable conditionally defines HAS_USTAT if ustat() is
?S: available to query file system statistics by dev_t.
?S:.
?C:HAS_USTAT:
?C: This symbol, if defined, indicates that the ustat system call is
?C: available to query file system statistics by dev_t.
?C:.
?H:#$d_ustat HAS_USTAT  /**/
?H:.
?LINT:set d_ustat
: see if ustat exists
set ustat d_ustat
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_ustat.U
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```
?RCS: $Id: Obsol_h.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Obsol_h.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:11  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file is prepended to .MT/Obsol_h if that file is not empty. That file
?X: contains the necessary mappings of new symbols to obsolete ones.
?X:
?MAKE:Obsol_h:
?MAKE: -pick prepend $@ ./Obsol_h
?LINT:nocomment
/*
* The following symbols are obsolete. They are mapped to the new
* symbols only to ease the transition process. The sources
 should be
* updated so as to use the new symbols only, as the support for these
* obsolete symbols may end without notice.
*/
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Obsol_h.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_const.U,v $
?RCS: Revision 3.0.1.1  1993/11/10  17:33:41  ram
?RCS: patch14: stronger const check with added typedef for MIPS cc
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:51  ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_const: cat rm cc ccflags Setvar
?MAKE: -pick add $@ %<
?S:d_const:
?S: This variable conditionally defines the HASCONST symbol, which
?S: indicates to the C program that this C compiler knows about the
?S: const type.
?S:.
?C:HASCONST ~ %<:
?C: This symbol,
 if defined, indicates that this C compiler knows about
?C: the const type. There is no need to actually test for that symbol
?C: within your programs. The mere use of the "const" keyword will
?C: trigger the necessary tests.
?C:.
?H:?%<:#$d_const HASCONST /**/
?H:?%<:#ifndef HASCONST
?H:?%<:#define const
?H:?%<:#endif
?H:.
?W:%<:const
?F:const.c const.o
?LINT:set d_const
?LINT:known const
: check for const keyword
echo " "
echo 'Checking to see if your C compiler knows about "const"...' >&4
$cat >const.c <<'EOCP'
?X: mmcg@bruce.cs.monash.edu.au reports that:
?X: The MIPS cc compiler (V2.10) on a dec 5000 running Ultrix 4.2A
?X: pretends to understand `const' but doesn't - it'll also fail to
?X: handle typedefs properly if they're declared const. To guard
?X: against this, boost up the test by using an explicit typedef...
typedef struct spug { int drokk; } spug;
int main()
{
 const char *foo;
 const spug y;
}
EOCP
if $cc -c $ccflags const.c >/dev/null 2>&1 ; then
 val="$define"
 echo "Yup,
 it does."
else
 val="$undef"
 echo "Nope, it doesn't."
```

```
fi
set d_const
eval $setvar
$rm -f const.c const.o
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_const.U
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```
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:need_va_copy: rm_try cat Compile run
?MAKE: -pick add $@ %<
?S:need_va_copy:
?S: This symbol, if defined, indicates that the system stores
?S: the variable argument list datatype, va_list, in a format
?S: that cannot be copied by simple assignment, so that some
?S: other means must be used when copying is required.
?S: As such systems vary in their provision (or non-provision)
?S: of copying mechanisms, handy.h defines a platform-
?S: independent macro, Perl_va_copy(src, dst), to do the job.
?S:.
?C:NEED_VA_COPY:
?C: This
 symbol, if defined, indicates that the system stores
?C: the variable argument list datatype, va_list, in a format
?C: that cannot be copied by simple assignment, so that some
?C: other means must be used when copying is required.
?C: As such systems vary in their provision (or non-provision)
?C: of copying mechanisms, handy.h defines a platform-
?C: independent macro, Perl_va_copy(src, dst), to do the job.
?C:.
?H:#$need_va_copy NEED_VA_COPY  /**/
?H:.
?T:okay
?F:!try
: see if we need va_copy
echo " "
$cat >try.c <<EOCP
```

```
#include <stdarg.h>
#include <stdio.h>
#include <stdlib.h>
#include <signal.h>

int
ivfprintf(FILE *f, const char *fmt, va_list *valp)
{
 return vfprintf(f, fmt, *valp);
}

int
myvfprintf(FILE *f, const  char *fmt, va_list val)
{
 return ivfprintf(f, fmt, &val);
}

int
myprintf(char *fmt, ...)
{
 va_list val;
 va_start(val, fmt);
 return myvfprintf(stdout, fmt, val);
}

int
main(int ac, char **av)
{
 signal(SIGSEGV, exit);
#ifdef SIGBUS
 signal(SIGBUS,
 exit);
#endif

 myprintf("%s%cs all right, then\n", "that", '\');
 exit(0);
}
EOCP
set try
if eval $compile && $run ./try 2>&1 >/dev/null; then
 case "`$run ./try`" in
 "that's all right, then")
  okay=yes
  ;;
 esac
fi
case "$okay" in
yes) echo "It seems that you don't need va_copy()." >&4
```

```
 need_va_copy="$undef"
 ;;
*) echo "It seems that va_copy() or similar will be needed." >&4
 need_va_copy="$define"
 ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/need_va_copy.U
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```
?RCS: $Id: Mkdirp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extract.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  14:58:52  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:51:46  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which can launched to create a
?X: directory path like "mkdir -p" would do.
?X:
?MAKE:Mkdirp:
 eunicefix startsh
?MAKE: -pick add $@ %<
?F:./mkdirp
?T:name create file
: script used to emulate mkdir -p
cat >mkdirp <<EOS
$startsh
EOS
cat >>mkdirp <<'EOS'
name=$1;
```

```
create="";
while test $name; do
 if test ! -d "$name"; then
  create="$name $create"
  name=`echo $name | sed -e "s|^[^/]*$||"`
  name=`echo $name | sed -e "s|\(.*\)/.*|\1|"`
 else
  name=""
 fi
done
for file in $create; do
 mkdir $file
done
EOS
chmod +x mkdirp
$eunicefix mkdirp
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Mkdirp.U
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```
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?RCS:
?MAKE:d_qgcvt: Inlibc
?MAKE: -pick add $@ %<
?S:d_qgcvt:
?S: This variable conditionally defines the HAS_QGCVT symbol, which
?S: indicates to the C program that the qgcvt() routine is available.
?S:.
?C:HAS_QGCVT:
?C: This symbol, if defined, indicates that the qgcvt routine is
?C: available to convert long doubles ("quad doubles") to strings.
?C: This is a low-level routine hopefully faster than sprintf.
?C:.
?H:#$d_qgcvt HAS_QGCVT  /**/
?H:.
?LINT:set d_qgcvt
: see if qgcvt exists
set qgcvt d_qgcvt
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_qgcvt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: ccflags.U,v 3.0.1.9 1997/02/28 15:27:07 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: ccflags.U,v $
?RCS: Revision 3.0.1.9  1997/02/28  15:27:07  ram
?RCS: patch61: removed support for NO_PROTOTYPE detection on SCO
?RCS: patch61: new locincpth variable
?RCS: patch61: added info on the "additional ld flags" question
?RCS:
?RCS: Revision 3.0.1.8  1995/07/25  13:48:54  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.7  1995/05/12  12:08:33  ram
?RCS: patch54: now checks for cc/ccflags/ldflags
 coherency
?RCS:
?RCS: Revision 3.0.1.6  1994/10/29  16:07:02  ram
?RCS: patch36: gcc versioning no longer relies on the C compiler's name
?RCS: patch36: simplified check for gcc version checking (ADO)
?RCS:
?RCS: Revision 3.0.1.5  1994/08/29  16:06:35  ram
?RCS: patch32: propagate -posix flag from ccflags to ldflags
?RCS:
?RCS: Revision 3.0.1.4  1994/05/06  14:28:45  ram
?RCS: patch23: -fpcc-struct-return only needed in gcc 1.x (ADO)
?RCS: patch23: cppflags now computed on an option-by-option basis
?RCS: patch23: magically added cc flags now only done the first time
?RCS:
?RCS: Revision 3.0.1.3  1993/09/13  15:58:29  ram
?RCS: patch10: explicitly mention -DDEBUG just in case they need it (WAD)
?RCS: patch10: removed all the "tans" variable usage (WAD)
?RCS:
?RCS: Revision 3.0.1.2  1993/08/27  14:39:38  ram
?RCS: patch7: added support for OSF/1 machines
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:00:24  ram
?RCS: patch6: added defaults for cppflags, ccflags and ldflags
```

```
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:05:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:ccflags ldflags lkflags cppflags optimize locincpth: test cat \
 Myread Guess Options Oldconfig +gccversion mips_type +usrinc \
 package contains rm +cc cppstdin cppminus cpprun cpplast libpth \
 libs loclibpth hint usesocks sh run rm_try sysroot
?MAKE: -pick add $@ %<
?S:ccflags:
?S: This variable contains any additional C compiler flags desired by
?S: the user.  It is up to the Makefile to use this.
?S:.
?S:cppflags:
?S: This variable holds the flags that will be passed to the C pre-
?S: processor. It is up to the Makefile to use it.
?S:.
?S:optimize:
?S: This variable contains any optimizer/debugger flag that should be used.
?S: It is up to the Makefile to use it.
?S:.
?S:ldflags:
?S: This variable contains any additional C loader flags desired by
?S: the user.  It is up to the Makefile to use this.
?S:.
?S:lkflags:
?S: This variable contains any additional C partial linker flags desired
 by
?S: the user.  It is up to the Makefile to use this.
?S:.
?S:locincpth:
?S: This variable contains a list of additional directories to be
?S: searched by the compiler.  The appropriate '-I' directives will
?S: be added to ccflags.  This is intended to simplify setting
?S: local directories from the Configure command line.
?S: It's not much, but it parallels the loclibpth stuff in libpth.U.
?S:.
?T:inctest thisincl xxx inclwanted ftry previous thislibdir
?T:EBUGGING DEBUGGING
?T:check flag callback checkccflag
?F:!cpp.c !gcctest !try
?D:cppflags=''
?D:ccflags=''
?D:ldflags=''
?D:optimize=''
?LINT:extern _sysroot
?INIT:: Possible local include directories to search.
```

```
?INIT:: Set locincpth to "" in a hint file to defeat local include searches.
?INIT:locincpth="/usr/local/include /opt/local/include /usr/gnu/include"
?INIT:locincpth="$locincpth /opt/gnu/include /usr/GNU/include /opt/GNU/include"
?INIT::
?INIT:: no include file wanted by default
?INIT:inclwanted="
?INIT:
?INIT:: Enable
 -DEBUGGING and -DDEBUGGING from the command line
?INIT:EBUGGING="
?INIT:DEBUGGING="
?INIT:
: determine optimization, if desired, or use for debug flag also
?X: Allow for Configure -Uoptimize -- it's not strictly sensible, but
?X: it has happened and we know what they mean.   AD  2/16/98
case "$optimize" in
' '|$undef) dflt='none';;
") dflt='-O';;
*) dflt="$optimize";;
esac
$cat <<EOH

By default, $package compiles with the -O flag to use the optimizer.
Alternately, you might want to use the symbolic debugger, which uses
the -g flag (on traditional Unix systems).  Either flag can be
specified here.  To use neither flag, specify the word "none".

EOH
rp="What optimizer/debugger flag should be used?"
. ./myread
optimize="$ans"
case "$optimize" in
'none') optimize=" ";;
esac

: Check what DEBUGGING is required from the command line
: -DEBUGGING      or -DDEBUGGING or
: -DEBUGGING=both   = -g + -DDEBUGGING
: -DEBUGGING=-g   or -Doptimize=-g = -g
: -DEBUGGING=none or -UDEBUGGING =
: -DEBUGGING=old
  or -DEBUGGING=default = ? $optimize
case "$EBUGGING" in
") ;;
*) DEBUGGING=$EBUGGING ;;
esac

case "$DEBUGGING" in
```

```
-g|both|$define)
   case "$optimize" in
 *-g*) ;;
 *)    optimize="$optimize -g" ;;
   esac ;;
none|$undef)
   case "$optimize" in
 *-g*) set `echo "X $optimize " | sed 's/ -g / /'`
  shift
  optimize="$*"
  ;;
   esac ;;
esac

dflt=''
case "$DEBUGGING" in
both|$define) dflt='-DDEBUGGING'
esac

: argument order is deliberate, as the flag will start with - which set could
: think is an option
checkccflag='check=$1; flag=$2; callback=$3;
echo " ";
echo "Checking if your compiler accepts $flag" >&4;
[ "X$sysroot" != "X" ] && echo "For sysroot = $sysroot";
echo "int main(void) { return 0; }" > gcctest.c;
if $cc $_sysroot -O2 $flag -o gcctest gcctest.c 2>gcctest.out && $run ./gcctest; then
   echo "Yes, it does." >&4;
   if $test -s gcctest.out ; then
       echo "But your platform does not like it:";
       cat gcctest.out;
   else
 case "$ccflags" in
 *$check*)

    echo "Leaving current flags $ccflags alone." >&4
     ;;
 *) dflt="$dflt $flag";
     eval $callback
     ;;
 esac
   fi
else
   echo "Nope, it does not, but that is ok." >&4;
fi
'

: We will not override a previous value, but we might want to
```

```
: augment a hint file
case "$hint" in
default|recommended)
 case "$gccversion" in
 1.*) dflt="$dflt -fpcc-struct-return" ;;
 esac
 case "$optimize:$DEBUGGING" in
 *-g*:old) dflt="$dflt -DDEBUGGING";;
 esac
?X: check for POSIXized ISC
 case "$gccversion" in
 2.*) if $test -d /etc/conf/kconfig.d &&
   $contains _POSIX_VERSION $usrinc/sys/unistd.h >/dev/null 2>&1
  then
   # Interactive Systems (ISC) POSIX mode.
   dflt="$dflt -posix"
  fi
  ;;
 esac
?X: If the user has gcc-2.95 or greater, try adding -fno-strict-alias.
?X: Since the gcc "version" can be non-numeric, e.g.
?X: "2.95.1 19990809 (prerelease)" , we'll do the test on any version
?X: greater than 2.8.
?X: --Andy Dougherty  27 Aug 1999
 case "$gccversion" in
 1.*) ;;
 2.[0-8]*)
 ;;
 ?*) set strict-aliasing -fno-strict-aliasing
  eval $checkccflag
  ;;
 esac
?X: HMB 200405
?X: -pipe has shown a compile time speedup of about 40% on Linux and HP-UX
?X: and also worked on cygwin-1.5.9
?X: If a system fails, disable it in the hints. 99% of gcc uses binutils
 # For gcc, adding -pipe speeds up compilations for some, but apparently
 # some assemblers can't read from stdin.  (It also slows down compilations
 # in other cases, but those are apparently rarer these days.)  AD 5/2004.
 case "$gccversion" in
 ?*) set pipe -pipe
  eval $checkccflag
  ;;
 esac

?X: NWC 200712
 # on x86_64 (at least) we require an extra library (libssp) in the
 # link command line. This library is not named, so I infer that it is
```

```
 # an implementation detail that may change. Hence the safest approach
 # is to add the flag to the flags passed to the compiler at link time,
 # as that way the compiler can do the right implementation dependant
 # thing. (NWC)
 case "$ccflags" in
 *-fno-stack-protector*)

    echo "Do not add -fstack-protector nor -fstack-protector-strong" 2>&1
     ;;
 *) case "$gccversion" in
    ?*) set stack-protector-strong -fstack-protector-strong
  eval $checkccflag
  case "$dflt" in
  *-fstack-protector-strong*) ;; # It got added.
  *) # Try the plain/older -fstack-protector.
     set stack-protector -fstack-protector
     eval $checkccflag
     ;;
  esac
  ;;
     esac
     ;;
 esac
esac

?X: In USG mode, a MIPS system may need some BSD includes
case "$mips_type" in
*BSD*|") inclwanted="$locincpth $usrinc";;
*) inclwanted="$locincpth $inclwanted $usrinc/bsd";;
esac
for thisincl in $inclwanted; do
 if $test -d $thisincl; then
  if $test x$thisincl != x$usrinc; then
   case "$dflt" in
   *" -I$thisincl "*);;
   *) dflt="$dflt -I$thisincl ";;
   esac
  fi
 fi
done

?X: Include test function (header, symbol)
inctest='if $contains $2 $usrinc/$1 >/dev/null 2>&1; then
 xxx=true;
elif $contains $2 $usrinc/sys/$1 >/dev/null 2>&1; then
 xxx=true;
else
 xxx=false;
```

```
fi;
if
 $xxx; then
 case "$dflt" in
 *$2*);;
 *) dflt="$dflt -D$2";;
 esac;
fi'

set signal.h LANGUAGE_C; eval $inctest

case "$usesocks" in
$define)
 ccflags="$ccflags -DSOCKS"
 ;;
esac

case "$hint" in
default|recommended) dflt="$ccflags $dflt" ;;
*) dflt="$ccflags";;
esac

case "$dflt" in
"|' ') dflt=none;;
esac

$cat <<EOH

Your C compiler may want other flags.  For this question you should include
-I/whatever and -DWHATEVER flags and any other flags used by the C compiler,
but you should NOT include libraries or ld flags like -lwhatever.  If you
want $package to honor its debug switch, you should include -DDEBUGGING here.
Your C compiler might also need additional flags, such as -D_POSIX_SOURCE.

To use no flags, specify the word "none".

EOH
?X: strip leading space
set X $dflt
shift
dflt=${1+"$@"}
rp="Any additional cc flags?"
. ./myread
case "$ans" in
none) ccflags="";;
*) ccflags="$ans";;
esac
```

```
: the following weeds options from ccflags that are of no interest to cpp
case
 "$cppflags" in
") cppflags="$ccflags" ;;
*)  set X $ccflags; shift
   case " $cppflags " in
   *" $1 "*) ;;  # Try to avoid doubling the cppflags.
   *) cppflags="$cppflags $ccflags" ;;
   esac
   ;;
esac
case "$gccversion" in
1.*) cppflags="$cppflags -D__GNUC__"
esac
case "$mips_type" in
");;
*BSD*) cppflags="$cppflags -DSYSTYPE_BSD43";;
esac
case "$cppflags" in
");;
*)
 echo " "
 echo "Let me guess what the preprocessor flags are..." >&4
 set X $cppflags
 shift
 cppflags="
 $cat >cpp.c <<'EOM'
#define BLURFL foo

BLURFL xx LFRULB
EOM
?X:
?X: For each cc flag, try it out with both cppstdin and cpprun, since the
?X: first is almost surely a cc wrapper. We have to try both in case
?X: of cc flags like '-Olimit 2900' that are actually two words...
?X:
 previous="
 for flag in $*
 do
  case "$flag" in
  -*) ftry="$flag";;
  *) ftry="$previous $flag";;
  esac
  if $cppstdin -DLFRULB=bar $cppflags $ftry $cppminus <cpp.c \
   >cpp1.out 2>/dev/null && \
   $cpprun -DLFRULB=bar $cppflags
 $ftry $cpplast <cpp.c \
   >cpp2.out 2>/dev/null && \
```

```
   $contains 'foo.*xx.*bar' cpp1.out >/dev/null 2>&1 && \
   $contains 'foo.*xx.*bar' cpp2.out >/dev/null 2>&1
  then
   cppflags="$cppflags $ftry"
   previous=''
  else
   previous="$flag"
  fi
 done
 set X $cppflags
 shift
 cppflags=${1+"$@"}
 case "$cppflags" in
 *-*)  echo "They appear to be: $cppflags";;
 esac
 $rm -f cpp.c cpp?.out
 ;;
esac

: flags used in final linking phase
case "$ldflags" in
'') if ./venix; then
  dflt='-i -z'
 else
  dflt=''
 fi
 case "$ccflags" in
 *-posix*) dflt="$dflt -posix" ;;
 esac
 ;;
*) dflt="$ldflags";;
esac
# See note above about -fstack-protector
case "$ccflags" in
*-fstack-protector-strong*)
 case "$dflt" in
 *-fstack-protector-strong*) ;; # Don't add it again
 *) dflt="$dflt -fstack-protector-strong" ;;
 esac
 ;;
*-fstack-protector*)
 case "$dflt" in
 *-fstack-protector*) ;; # Don't add it again
 *) dflt="$dflt -fstack-protector" ;;
 esac
 ;;
esac
```

```
: Try to guess additional flags to pick
 up local libraries.
for thislibdir in $libpth; do
 case " $loclibpth " in
 *" $thislibdir "*)
  case "$dflt " in
  *"-L$thislibdir "*) ;;
  *)  dflt="$dflt -L$thislibdir" ;;
  esac
  ;;
 esac
done

case "$dflt" in
") dflt='none' ;;
esac

$cat <<EOH

Your C linker may need flags.  For this question you should
include -L/whatever and any other flags used by the C linker, but you
should NOT include libraries like -lwhatever.

Make sure you include the appropriate -L/path flags if your C linker
does not normally search all of the directories you specified above,
namely
 $libpth
To use no flags, specify the word "none".

EOH

rp="Any additional ld flags (NOT including libraries)?"
. ./myread
case "$ans" in
none) ldflags=";;
*) ldflags="$ans";;
esac
rmlist="$rmlist pdp11"

@if lkflags
: partial linking may need other flags
case "$lkflags" in
") case "$ldflags" in
 ") dflt='none';;
 *) dflt="$ldflags";;
 esac;;
*) dflt="$lkflags";;
esac
```

```
echo " "
rp="Partial linking flags to be used (NOT
 including -r)?"
. ./myread
case "$ans" in
none) lkflags="";;
*) lkflags="$ans";;
esac

@end
?X:
?X: If the user changes compilers after selecting a hint file, it's
?X: possible that the suggested ccflags/ldflags will be wrong.  Try to
?X: compile and run a simple test program.  Let the user see all the
?X: error messages. -- ADO and RAM
?X: Sometimes, particularly on Linux systems, there is a bad library
?X: (e.g. a dangling symlink or incompatible library or a "run-time"
?X: version but not a "development" version of a library).  This test
?X: will catch those sorts of problems too, though how to fix them
?X: may not be obvious.
?X:
: coherency check
echo " "
echo "Checking your choice of C compiler and flags for coherency..." >&4
$cat > try.c <<'EOF'
#include <stdio.h>
int main() { printf("Ok\n"); return(0); }
EOF
?X: Strip extra blanks in case some of the following variables are empty
set X $cc -o try $optimize $ccflags $ldflags try.c $libs
shift
$cat >try.msg <<'EOM'
I've tried to
 compile and run the following simple program:

EOM
$cat try.c >> try.msg

$cat >> try.msg <<EOM

I used the command:

 $*
 $run ./try

and I got the following output:

EOM
```

```
dflt=y
?X: Use "sh -c" to avoid error messages tagged with leading "Configure:".
?X: We need to try the resulting executable, because cc might yield a 0 status
?X: even when ld failed, in which case the executable will not run properly,
?X: if its x bit is set at all...
if $sh -c "$cc -o try $optimize $ccflags $ldflags try.c $libs" >>try.msg 2>&1; then
 if $sh -c "$run ./try " >>try.msg 2>&1; then
  xxx=`$run ./try`
  case "$xxx" in
  "Ok") dflt=n ;;
  *)    echo 'The program compiled OK, but produced no output.' >> try.msg ;;
  esac
 else
  echo "The program compiled OK, but exited with status $?." >>try.msg
  rp="You have a problem.  Shall I abort Configure"
  dflt=y
 fi
else
 echo "I can't compile the test program." >>try.msg
 rp="You have a BIG problem.  Shall I abort Configure"
 dflt=y
fi
case "$dflt" in
y)
 $cat
 try.msg >&4
?X: using -K will prevent default aborting--maybe they're cross compiling?
 case "$knowitall" in
 ")
  echo "(The supplied flags or libraries might be incorrect.)"
  ;;
 *) dflt=n;;
 esac
 echo " "
 . ./myread
 case "$ans" in
 n*|N*) ;;
 *) echo "Ok.  Stopping Configure." >&4
  exit 1
  ;;
 esac
 ;;
n) echo "OK, that should do.";;
esac
$rm_try gcctest gcctest.out
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/compline/ccflags.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strtok.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strtok.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:38  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The strtok routine now appears to be a standard one, but it was
?X: missing in early BSD systems.
?X:
?MAKE:d_strtok: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtok:
?S: This variable conditionally defines HAS_STRTOK if strtok() is
?S: available to scan strings for tokens.
?S:.
?C:HAS_STRTOK (STRTOK):
?C: This symbol, if defined, indicates
 that the strtok routine is
?C: available to scan strings for tokens.
?C:.
?H:#$d_strtok HAS_STRTOK /**/
?H:.
?LINT:set d_strtok
: see if strtok exists
set strtok d_strtok
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strtok.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_dbl_dig.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_dbl_dig.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:28  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_dbl_dig: Myread contains cat rm Setvar \
 cppstdin cppflags cppminus
?MAKE: -pick add $@ %<
?S:d_dbl_dig:
?S: This variable conditionally defines d_dbl_dig if this system's
?S: header files provide DBL_DIG, which is the number of significant
?S: digits in a double precision
 number.
?S:.
?C:HAS_DBL_DIG:
?C: This symbol, if defined, indicates that this system's <float.h>
?C: or <limits.h> defines the symbol DBL_DIG, which is the number
?C: of significant digits in a double precision number.  If this
?C: symbol is not defined, a guess of 15 is usually pretty good.
?C:.
?H:#$d_dbl_dig HAS_DBL_DIG /**/
?H:.
?F:!dbl_dig.c
?LINT:set d_dbl_dig
: See if number of significant digits in a double precision number is known
echo " "
$cat >dbl_dig.c <<EOM
#include <limits.h>
#include <float.h>
#ifdef DBL_DIG
printf("Contains DBL_DIG");
#endif
EOM
$cppstdin $cppflags $cppminus < dbl_dig.c >dbl_dig.E 2>/dev/null
if $contains 'DBL_DIG' dbl_dig.E >/dev/null 2>&1; then
 echo "DBL_DIG found." >&4
 val="$define"
else
 echo "DBL_DIG NOT found." >&4
 val="$undef"
fi
```

```
$rm -f dbl_dig.?
set d_dbl_dig
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_dbl_dig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: fpostype.U,v 3.0.1.2 1994/08/29 16:20:52 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: fpostype.U,v $
?RCS: Revision 3.0.1.2  1994/08/29  16:20:52  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:59:59  ram
?RCS: patch30: created
?RCS:
?MAKE:fpostype: Myread Typedef
?MAKE: -pick add $@ %<
?S:fpostype:
?S: This variable defines Fpos_t to be something like fpos_t, long,
?S: uint, or whatever type is used to declare file positions in libc.
?S:.
?C:Fpos_t:
?C: This symbol holds
 the type used to declare file positions in libc.
?C: It can be fpos_t, long, uint, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Fpos_t $fpostype  /* File position type */
?H:.
?LINT:set fpostype
: see what type file positions are declared as in the library
rp="What is the type for file position used by fsetpos()?"
set fpos_t fpostype long stdio.h sys/types.h
eval $typedef_ask
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/typedefs/fpostype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_closedir.U,v 3.0.1.3 1997/02/28 15:31:26 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_closedir.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:31:26  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:11:18  ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:21  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_closedir d_void_closedir: Inlibc i_dirent i_sysdir i_sysndir
 \
 i_systypes Compile Setvar rm_try run
?MAKE: -pick add $@ %<
?S:d_closedir:
?S: This variable conditionally defines HAS_CLOSEDIR if closedir() is
?S: available.
?S:.
?C:HAS_CLOSEDIR:
?C: This symbol, if defined, indicates that the closedir() routine is
?C: available.
?C:.
?H:#$d_closedir HAS_CLOSEDIR  /**/
?H:.
?S:d_void_closedir:
?S: This variable conditionally defines VOID_CLOSEDIR if closedir()
?S: does not return a value.
?S:.
?C:VOID_CLOSEDIR:
?C: This symbol, if defined, indicates that the closedir() routine
?C: does not return a value.
?C:.
?H:#$d_void_closedir VOID_CLOSEDIR  /**/
```

```
?H:.
?F:!try
?LINT:set d_closedir d_void_closedir
: see if closedir exists
set closedir d_closedir
eval $inlibc

@if VOID_CLOSEDIR || d_void_closedir
?X: The following contortions are designed so we can call closedir()
?X: and check whether it returns a value.  The contortions are designed
?X: to portably pick up the correct directory header, for those
?X: systems that support various mutually incompatible
 directory functions.
?X: This is from perl5's perl.h
case "$d_closedir" in
"$define")
 echo " "
 echo "Checking whether closedir() returns a status..." >&4
 cat > try.c <<EOM
#$i_dirent I_DIRENT  /**/
#$i_sysdir I_SYS_DIR  /**/
#$i_sysndir I_SYS_NDIR  /**/
#$i_systypes I_SYS_TYPES /**/

#if defined(I_SYS_TYPES)
#include <sys/types.h>
#endif
#if defined(I_DIRENT)
#include <dirent.h>
#else
#ifdef I_SYS_NDIR
#include <sys/ndir.h>
#else
#ifdef I_SYS_DIR
#include <sys/dir.h>
#endif
#endif
#endif
int main() { return closedir(opendir(".")); }
EOM
 set try
 if eval $compile_ok; then
  if $run ./try > /dev/null 2>&1 ; then
   echo "Yes, it does."
   val="$undef"
  else
   echo "No, it doesn't."
   val="$define"
```

```
  fi
 else
  echo "(I can't seem to compile the test program--assuming it doesn't)"
  val="$define"
 fi
 ;;
*)
 val="$undef";
 ;;
esac
set d_void_closedir
eval $setvar
$rm_try
@end
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_closedir.U
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```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: pager.U,v $
?RCS: Revision 3.0.1.2  1995/01/30  14:41:26  ram
?RCS: patch49: ensure dflt gets initialized in case no pagers are found (WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:27:45  ram
?RCS: patch36: replaced Myread by Getfile in the dependency line
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:30  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:pager: pg more less Getfile Oldconfig
?MAKE: -pick add $@ %<
?S:pager:
?S: This variable contains the name of the preferred pager
 on the system.
?S: Usual values are (the full pathnames of) more, less, pg, or cat.
?S:.
: locate the preferred pager for this system
```

```
fn=f/
case "$pager" in
")
 dflt="
 case "$pg" in
 /*) dflt=$pg;;
 [a-zA-Z]:/*) dflt=$pg;;
 esac
 case "$more" in
 /*) dflt=$more;;
 [a-zA-Z]:/*) dflt=$more;;
 esac
 case "$less" in
 /*) dflt=$less;;
 [a-zA-Z]:/*) dflt=$less;;
 esac
 case "$dflt" in
 ") dflt=/usr/ucb/more;;
 esac
 ;;
*) dflt="$pager"
 ;;
esac
?X: Instruct ./getfile to trust the default pager value,
?X: even if it does not begin with a slash.  For example, on os2,
?X: pager might be cmd /c more.  Also, it might include some options,
?X: such as '/usr/bin/less -R'.  ./getfile would report that
?X: "/usr/bin/less -R" doesn't exist.
?X: See comments in Getfile.U.
fn="f/($dflt)"
echo " "
rp='What pager is used on your system?'
. ./getfile
pager="$ans"
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/pager.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpgrp.U,v 3.0.1.1 1997/02/28 15:34:28 ram Exp $
?RCS:
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```

```
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_getpgrp.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:34:28  ram
?RCS: patch61: new USE_BSD_GETPGRP to detect the getpgrp() flavor
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getpgrp d_bsdgetpgrp: Guess Inlibc Setvar cat rm_try \
 +cc +ccflags +ldflags +libs i_unistd i_stdlib run
?MAKE: -pick add $@ %<
?S:d_getpgrp:
?S: This variable conditionally defines HAS_GETPGRP if getpgrp() is
?S: available
 to get the current process group.
?S:.
?S:d_bsdgetpgrp:
?S: This variable conditionally defines USE_BSD_GETPGRP if
?S: getpgrp needs one arguments whereas USG one needs none.
?S:.
?C:HAS_GETPGRP (GETPGRP):
?C: This symbol, if defined, indicates that the getpgrp routine is
?C: available to get the current process group.
?C:.
?C:USE_BSD_GETPGRP:
?C: This symbol, if defined, indicates that getpgrp needs one
?C: arguments whereas USG one needs none.
?C:.
?H:#$d_getpgrp HAS_GETPGRP  /**/
?H:#$d_bsdgetpgrp USE_BSD_GETPGRP /**/
?H:.
?T:xxx
?F:!try
?LINT:set d_getpgrp d_bsdgetpgrp
: see if getpgrp exists
set getpgrp d_getpgrp
eval $inlibc

@if USE_BSD_GETPGRP || d_bsdgetpgrp
case "$d_getpgrp" in
"$define")
 echo " "
 echo "Checking to see which flavor of getpgrp is in use..."
 $cat >try.c <<EOP
#include <stdio.h>
#$i_unistd I_UNISTD
#include <sys/types.h>
```

```
#ifdef I_UNISTD
#  include <unistd.h>
#endif
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
{
 if (getuid()
 == 0) {
  printf("(I see you are running Configure as super-user...)\n");
  setuid(1);
 }
#ifdef TRY_BSD_PGRP
 if (getpgrp(1) == 0)
  exit(0);
#else
 if (getpgrp() > 0)
  exit(0);
#endif
 exit(1);
}
EOP
 if $cc -o try -DTRY_BSD_PGRP $ccflags $ldflags try.c $libs >/dev/null 2>&1 && $run ./try; then
  echo "You have to use getpgrp(pid) instead of getpgrp()." >&4
  val="$define"
 elif $cc -o try $ccflags $ldflags try.c $libs >/dev/null 2>&1 && $run ./try; then
  echo "You have to use getpgrp() instead of getpgrp(pid)." >&4
  val="$undef"
 else
  echo "I can't seem to compile and run the test program."
  if ./usg; then
   xxx="a USG one, i.e. you use getpgrp()."
  else
   # SVR4 systems can appear rather BSD-ish.
   case "$i_unistd" in
   $undef)
    xxx="a BSD one, i.e. you use getpgrp(pid)."
    val="$define"
    ;;
   $define)
    xxx="probably a USG one, i.e. you use getpgrp()."
    val="$undef"
    ;;
   esac
  fi
  echo "Assuming your getpgrp is $xxx" >&4
```

```
 fi
 ;;
*) val="$undef";;
esac
set
 d_bsdgetpgrp
eval $setvar
$rm_try
@end
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_getpgrp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sethostent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
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?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_sethostent_r sethostent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_sethostent_r:
?S: This variable conditionally defines the HAS_SETHOSTENT_R symbol,
?S: which indicates to the C program that the sethostent_r()
?S: routine is available.
?S:.
?S:sethostent_r_proto:
?S: This variable encodes the prototype of sethostent_r.
?S: It is zero if d_sethostent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_sethostent_r
?S: is defined.
?S:.
?C:HAS_SETHOSTENT_R:
?C: This symbol, if defined, indicates that the sethostent_r routine
?C: is
 available to sethostent re-entrantly.
?C:.
?C:SETHOSTENT_R_PROTO:
?C: This symbol encodes the prototype of sethostent_r.
?C: It is zero if d_sethostent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_sethostent_r
?C: is defined.
?C:.
```

```
?H:#$d_sethostent_r HAS_SETHOSTENT_R /**/
?H:#define SETHOSTENT_R_PROTO $sethostent_r_proto /**/
?H:.
?T:try hdrs d_sethostent_r_proto
: see if sethostent_r exists
set sethostent_r d_sethostent_r
eval $inlibc
case "$d_sethostent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_sethostent_r_proto:$usethreads" in
 ":define") d_sethostent_r_proto=define
  set d_sethostent_r_proto sethostent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_sethostent_r_proto" in
 define)
 case "$sethostent_r_proto" in
 "|0) try='int sethostent_r(int, struct hostent_data*);'
 ./protochk "$extern_C $try" $hdrs && sethostent_r_proto=I_ID ;;
 esac
 case "$sethostent_r_proto" in
 "|0) try='void
 sethostent_r(int, struct hostent_data*);'
 ./protochk "$extern_C $try" $hdrs && sethostent_r_proto=V_ID ;;
 esac
 case "$sethostent_r_proto" in
 "|0) d_sethostent_r=undef
  sethostent_r_proto=0
  echo "Disabling sethostent_r, cannot determine prototype." >&4 ;;
 * ) case "$sethostent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) sethostent_r_proto="REENTRANT_PROTO_$sethostent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "sethostent_r has no prototype, not using it." >&4 ;;
  esac
  d_sethostent_r=undef
  sethostent_r_proto=0
  ;;
 esac
 ;;
*) sethostent_r_proto=0
 ;;
```

```
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_sethostent_r.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_casti32.U,v $
?RCS: Revision 3.0.1.3  1995/05/12  12:10:45  ram
?RCS: patch54: made sure cc and ccflags are conditional dependencies
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:09:37  ram
?RCS: patch36: declare signal handler correctly (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:06  ram
?RCS: patch32: created by ADO
?RCS:
?X:
?X: Can the compiler cast large floats to 32-bit integers?
?X:
?MAKE:d_casti32: cat
 +cc +ccflags rm_try intsize Setvar test signal_t
?MAKE: -pick add $@ %<
?S:d_casti32:
?S: This variable conditionally defines CASTI32, which indicates
?S: whether the C compiler can cast large floats to 32-bit ints.
?S:.
?C:CASTI32:
?C: This symbol is defined if the C compiler can cast negative
?C: or large floating point numbers to 32-bit ints.
?C:.
?T:xxx yyy
?H:#$d_casti32 CASTI32  /**/
?H:.
?F:!try
?LINT:set d_casti32
```

```
: check for ability to cast large floats to 32-bit ints.
echo " "
echo 'Checking whether your C compiler can cast large floats to int32.' >&4
if $test "$intsize" -eq 4; then
 xxx=int
else
 xxx=long
fi
$cat >try.c <<EOCP
#include <sys/types.h>
#include <signal.h>
$signal_t blech() { exit(3); }
int main()
{
 $xxx i32;
 double f;
 int result = 0;
 signal(SIGFPE, blech);

 f = (double) 0x7fffffff;
 f = 10 * f;
 i32  = ($xxx) f;

 if (i32 != ($xxx) f)
  result |= 1;
 exit(result);
}
EOCP
if $cc $ccflags -o try try.c >/dev/null 2>&1; then
 ./try
 yyy=$?
else
 echo "(I can't
 seem to compile the test program--assuming it can't)"
 yyy=1
fi
case "$yyy" in
0) val="$define"
 echo "Yup, it can."
 ;;
*) val="$undef"
 echo "Nope, it can't."
 ;;
esac
set d_casti32
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_casti32.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_netdb.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
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?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_netdb: Inhdr
?MAKE: -pick add $@ %<
?S:i_netdb:
?S: This variable conditionally defines the I_NETDB symbol, and indicates
?S: whether a C program should include <netdb.h>.
?S:.
?C:I_NETDB:
?C: This symbol, if defined, indicates that <netdb.h> exists and
?C: should be included.
?C:.
?H:#$i_netdb I_NETDB  /**/
?H:.
?LINT:set i_netdb
: see if this is a netdb.h system
set netdb.h i_netdb
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_netdb.U
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```
?RCS: $Id: d_poll.U 15 2006-08-30 18:21:51Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_poll.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:38:17  ram
?RCS: patch61: mention that <poll.h> can be included if HAS_POLL defined
?RCS:
```

```
?RCS: Revision 3.0.1.1  1995/01/11  15:26:31  ram
?RCS: patch45: created
?RCS:
?MAKE:d_poll: Inlibc
?MAKE: -pick add $@ %<
?S:d_poll:
?S: This variable conditionally defines the HAS_POLL symbol, which
?S: indicates to the C program that the poll() routine is available
?S: to poll active file descriptors.
?S:.
?C:HAS_POLL
 :
?C: This symbol, if defined, indicates that the poll routine is
?C: available to poll active file descriptors.  Please check I_POLL and
?C: I_SYS_POLL to know which header should be included as well.
?C:.
?H:#$d_poll HAS_POLL  /**/
?H:.
?LINT:set d_poll
: see if poll exists
set poll d_poll
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_poll.U
No license file was found, but licenses were detected in source scan.

```
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:fpossize: Myread Typedef fpostype Compile longsize run i_stdlib
?MAKE: -pick add $@ %<
?S:fpossize:
?S: This variable contains the size of a fpostype in bytes.
?S:.
?C:Fpos_t_size:
?C: This symbol holds the size of a Fpos_t in bytes.
?C:.
?H:#define Fpos_t_size $fpossize  /* FPOS size */
?H:.
?T:yyy zzz
```

```
?F:!try
: Check size for Fpos_t
echo " "
case "$fpostype" in
*_t) zzz="$fpostype" ;;
*)   zzz="fpos_t" ;;
esac
echo "Checking the size of $zzz..." >&4
cat > try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef
 I_STDLIB
#include <stdlib.h>
#endif
int main() {
   printf("%d\n", (int)sizeof($fpostype));
   exit(0);
}
EOCP
set try
if eval $compile_ok; then
 yyy=`$run ./try`
 case "$yyy" in
 ") fpossize=4
  echo "(I can't execute the test program--guessing $fpossize.)" >&4
  ;;
 *) fpossize=$yyy
  echo "Your $zzz is $fpossize bytes long."
  ;;
 esac
else
 dflt="$longsize"
 echo " " >&4
 echo "(I can't compile the test program.  Guessing...)" >&4
 rp="What is the size of your file positions (in bytes)?"
 . ./myread
 fpossize="$ans"
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/fpossize.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_sigsetjmp.U,v 3.0.1.1 1997/02/28 15:44:33 ram Exp $
?RCS:

```
?RCS: Copyright (c) 1996,1998 Andy Dougherty
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_sigsetjmp.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:44:33  ram
?RCS: patch61: created
?RCS:
?MAKE:d_sigsetjmp: Compile Setvar cat rm_try run i_stdlib
?MAKE: -pick add $@ %<
?S:d_sigsetjmp:
?S: This variable conditionally defines the HAS_SIGSETJMP symbol,
?S: which
 indicates that the sigsetjmp() routine is available to
?S: call setjmp() and optionally save the process's signal mask.
?S:.
?C:HAS_SIGSETJMP:
?C: This variable indicates to the C program that the sigsetjmp()
?C: routine is available to save the calling process's registers
?C: and stack environment for later use by siglongjmp(), and
?C: to optionally save the process's signal mask.  See
?C: Sigjmp_buf, Sigsetjmp, and Siglongjmp.
?C:.
?C:Sigjmp_buf:
?C: This is the buffer type to be used with Sigsetjmp and Siglongjmp.
?C:.
?C:Sigsetjmp:
?C: This macro is used in the same way as sigsetjmp(), but will invoke
?C: traditional setjmp() if sigsetjmp isn't available.
?C: See HAS_SIGSETJMP.
?C:.
?C:Siglongjmp:
?C: This macro is used in the same way as siglongjmp(), but will invoke
?C: traditional longjmp() if siglongjmp isn't available.
?C: See HAS_SIGSETJMP.
?C:.
?H:?%<:#$d_sigsetjmp HAS_SIGSETJMP /**/
?H:?%<:#ifdef HAS_SIGSETJMP
?H:?%<:#define Sigjmp_buf sigjmp_buf
?H:?%<:#define Sigsetjmp(buf,save_mask)
```

```
 sigsetjmp((buf),(save_mask))
?H:?%<:#define Siglongjmp(buf,retval) siglongjmp((buf),(retval))
?H:?%<:#else
?H:?%<:#define Sigjmp_buf jmp_buf
?H:?%<:#define Sigsetjmp(buf,save_mask) setjmp((buf))
?H:?%<:#define Siglongjmp(buf,retval) longjmp((buf),(retval))
?H:?%<:#endif
?H:.
?W:%<:Sigjmp_buf Sigsetjmp Siglongjmp
?F:!try
?LINT:set d_sigsetjmp
: see if sigsetjmp exists
?X: We can't check for these symbols with Inlibc because sigsetjmp
?X: is (sometimes? always?) a macro under GCC
echo " "
case "$d_sigsetjmp" in
")
 $cat >try.c <<EOP
#include <setjmp.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
sigjmp_buf env;
int set = 1;
int main()
{
 if (sigsetjmp(env,1))
  exit(set);
 set = 0;
 siglongjmp(env, 1);
 exit(1);
}
EOP
 set try
 if eval $compile; then
  if $run ./try >/dev/null 2>&1; then
   echo "POSIX sigsetjmp found." >&4
   val="$define"
  else
   $cat >&4 <<EOM
Uh-Oh! You have POSIX sigsetjmp and siglongjmp, but they do not work properly!!
I'll
 ignore them.
EOM
   val="$undef"
  fi
 else
```

```
  echo "sigsetjmp not found." >&4
  val="$undef"
 fi
 ;;
*) val="$d_sigsetjmp"
 case "$d_sigsetjmp" in
 $define) echo "POSIX sigsetjmp found." >&4;;
 $undef) echo "sigsetjmp not found." >&4;;
 esac
 ;;
esac
set d_sigsetjmp
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_sigsetjmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ckeypad.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_ckeypad.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_ckeypad: cat cc termlib Setvar
?MAKE: -pick add $@ %<
?S:d_ckeypad:
?S: This variable controls the definition of HAS_CURSES_KEYPAD,
?S: which tells the application that the keypad() curses function
?S: is available.
?S:.
?C:HAS_CURSES_KEYPAD:
?C: This symbol indicates the availability of the keypad() function
?C: of the curses library.
?C:.
?H:#$d_ckeypad
 HAS_CURSES_KEYPAD /**/
?H:.
```

```
?LINT:set d_ckeypad
: check for the "keypad()" function in the curses library
echo " "
case "$termlib" in
")
 echo "You don't have a curses library, so I won't waste time looking" >&4
 echo "to see if has the keypad() function." >&4
*)
echo "Checking the curses library ($termlib) for the keypad() function..." >&4
 $cat >c_keypad.c <<'EOCP'
#include <curses.h>
int main() {
 keypad(stdscr, TRUE);
 exit(0);
}
EOCP
 if $cc c_keypad.c >c_keypad.out 2>&1 ; then
  val=$define
  echo "It appears to have the keypad() function."
 else
  val=$undef
  echo "Your curses library doesn't appear to have the keypad() function."
 fi
esac
set d_ckeypad
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_ckeypad.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Begin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Begin.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  14:56:35  ram
?RCS: patch61: added Extractall dependency
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:25:08  ram
?RCS: patch49: avoid an empty rmlist: systems might choke on it (WED)
```

```
?RCS:
?RCS: Revision 3.0.1.1  1994/10/31  09:32:20  ram
?RCS: patch44: created
?RCS:
?X:
?X: This file comes after option processing had been done and after all
?X: the default values have been set up. It marks the beginning
 of questions.
?X: It is important that Options be listed *after* Myinit to ensure that the
?X: default initializations performed by Init and Myinit will not clobber
?X: any setting done on the command line via -D or -U.
?X:
?MAKE:Begin: Myinit Options package Extractall
?MAKE: -pick add $@ %<
: Eunice requires " " instead of "", can you believe it
echo " "
: Here we go...
echo "Beginning of configuration questions for $package."

?X: Make sure the rm below is given a non-empty list for some systems.
?X: This is run only when within the UU directory, hence we can safely
?X: attempt to rm a non-existent 'X' file...
trap 'echo " "; test -d ../UU && rm -rf X $rmlist; exit 1' 1 2 3 15
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Begin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_newsadm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_newsadm.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:36:53  ram
?RCS: patch61: added Guess dependency
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:14:33  ram
?RCS: patch36: call ./eunice explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:42  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?MAKE:d_newsadm newsadmin: cat contains Guess Setvar Myread Oldconfig
?MAKE: -pick add $@ %<
?S:d_newsadm:
?S: This variable
 conditionally defines the NEWS_ADMIN symbol, which
?S: indicates to the C program that there is a user who is in charge
?S: of news administration.
?S:.
?S:newsadmin:
?S: This variable holds the login name of the news administrator, if any.
?S:.
?C:NEWS_ADMIN (NEWSADMIN):
?C: This symbol, if defined, contains the login name of the news
?C: administrator.
?C:.
?H:#$d_newsadm NEWS_ADMIN "$newsadmin"  /**/
?H:.
?LINT:set d_newsadm
: get news administrator name
case "$newsadmin" in
")
 if $contains "^news:" /etc/passwd >/dev/null 2>&1 ; then
  dflt=news
 elif $contains "^usenet:" /etc/passwd >/dev/null 2>&1 ; then
  dflt=usenet
 elif ./eunice; then
  dflt=system
 else
  dflt=root
 fi
 ;;
*)
 dflt="$newsadmin"
 ;;
esac
$cat <<'EOM'

Many systems keep their news in a private directory, or have a non-superuser
in charge of administering news.  (If you don't have such a user, take the
default answer.)  I need the login name (not directory) which is used for
news administration.

EOM
rp="News
 admin login?"
. ./myread
newsadmin="$ans"
```

```
case "$newsadmin" in
root) val="$undef" ;;
*) val="$define" ;;
esac
set d_newsadm
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_newsadm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_group.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_group.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:34:52  ram
?RCS: patch61: useless unit dropped.
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:48  ram
?RCS: patch32: created by ADO
?RCS:
?X:
?X: Useless unit dropped.
?X:
?LINT:empty
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_group.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_j0 d_j0l: Inlibc
?MAKE: -pick add $@ %<
?S:d_j0:
?S: This variable conditionally defines the HAS_J0 symbol, which
```

```
?S: indicates to the C program that the j0() routine is available.
?S:.
?S:d_j0l:
?S: This variable conditionally defines the HAS_J0L symbol, which
?S: indicates to the C program that the j0l() routine is available.
?S:.
?C:HAS_J0:
?C: This symbol, if defined, indicates to the C program that the
?C: j0() function is available for Bessel functions of the first
?C: kind of the order zero, for doubles.
?C:.
?C:HAS_J0L:
?C: This symbol, if defined, indicates to the C program that the
?C: j0l() function is available for Bessel functions of the first
?C: kind of the order zero, for long doubles.
?C:.
?H:#$d_j0 HAS_J0  /**/
?H:#$d_j0l HAS_J0L  /**/
?H:.
?LINT:set
 d_j0
?LINT:set d_j0l
: see if j0 exists
set j0 d_j0
eval $inlibc

: see if j0l exists
set j0l d_j0l
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_j0.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001, Jarkko Hietaniemi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS:
?MAKE:d_dirfd: Compile cat rm Setvar i_dirent i_sysdir i_sysndir i_systypes i_stdlib
?MAKE: -pick add $@ %<
```

```
?S:d_dirfd:
?S: This variable conditionally defines the HAS_DIRFD constant,
?S: which indicates to the C program that dirfd() is available
?S: to return the file descriptor of a directory stream.
?S:.
?C:HAS_DIRFD:
?C: This manifest constant lets the C program know that dirfd
?C: is available.
?C:.
?H:#$d_dirfd HAS_DIRFD  /**/
?H:.
?LINT:set d_dirfd
?X: Can't use Inlibc because dirfd() might be a macro.
: Look
 for dirfd
echo " "
$cat >dirfd.c <<EOM
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_dirent I_DIRENT  /**/
#$i_sysdir I_SYS_DIR  /**/
#$i_sysndir I_SYS_NDIR  /**/
#$i_systypes I_SYS_TYPES /**/
#if defined(I_SYS_TYPES)
#include <sys/types.h>
#endif
#if defined(I_DIRENT)
#include <dirent.h>
#else
#ifdef I_SYS_NDIR
#include <sys/ndir.h>
#else
#ifdef I_SYS_DIR
#include <sys/dir.h>
#endif
#endif
#endif
int main() {
 DIR *dirp = opendir(".");
 if (dirfd(dirp) >= 0)
  exit(0);
 else
  exit(1);
}
EOM
```

```
val=$undef
set dirfd
if eval $compile; then
 val="$define"
fi
case "$val" in
$define) echo "dirfd() found." >&4 ;;
*)  echo "dirfd() NOT found." >&4 ;;
esac
set d_dirfd
eval $setvar
$rm -f dirfd*
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_dirfd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: prototype.U,v 3.0.1.3 1994/05/06 15:11:49 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: prototype.U,v $
?RCS: Revision 3.0.1.3  1994/05/06  15:11:49  ram
?RCS: patch23: ensure cc flags used when looking for prototype support
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:15:36  ram
?RCS: patch16: prototype handling macros now appear only when needed
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:03:12  ram
?RCS: patch6: defines were referring to non-existent VOID symbol
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:36  ram
?RCS: Baseline for dist
 3.0 netwide release.
?RCS:
?MAKE:prototype: Nothing
?S:prototype:
?S: This variable holds the eventual value of CAN_PROTOTYPE, which
?S: indicates the C compiler can handle function prototypes.
?S:.
: stub, never used
```

```
prototype=nothing
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/prototype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_msghdr_s: Hasstruct i_systypes d_socket i_sysuio Setvar
?MAKE: -pick add $@ %<
?S:d_msghdr_s:
?S: This variable conditionally defines the HAS_STRUCT_MSGHDR symbol,
?S: which indicates that the struct msghdr is supported.
?S:.
?C:HAS_STRUCT_MSGHDR:
?C: This symbol, if defined, indicates that the struct msghdr
?C: is supported.
?C:.
?H:#$d_msghdr_s HAS_STRUCT_MSGHDR /**/
?H:.
?LINT:set d_msghdr_s
: Check for msghdr_s
echo " "
echo "Checking to see if your system supports struct msghdr..." >&4
set d_msghdr_s msghdr $i_systypes sys/types.h $d_socket sys/socket.h $i_sysuio sys/uio.h
eval $hasstruct
case "$d_msghdr_s" in
"$define")      echo "Yes, it does."   ;;
*)              echo "No, it doesn't."
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_msghdr_s.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpagsz.U,v 3.0.1.1 1994/10/29 16:13:10 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_getpagsz.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:13:10  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getpagsz: Compile Oldconfig Myread Inlibc Findhdr
?MAKE: -pick add $@ %<
?S:d_getpagsz:
?S: This variable conditionally defines HAS_GETPAGESIZE if getpagesize()
?S: is available to get the system page size.
?S:.
?C:HAS_GETPAGESIZE
 (GETPAGESIZE):
?C: This symbol, if defined, indicates that the getpagesize system call
?C: is available to get system page size, which is the granularity of
?C: many memory management calls.
?C:.
?H:#$d_getpagsz HAS_GETPAGESIZE  /**/
?H:.
?LINT:set d_getpagsz
: see if getpagesize exists
set getpagesize d_getpagsz
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_getpagsz.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: inc_version_list.U,v $
?RCS:
?RCS: Copyright (c) 2000 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: inc_version_list.U,v $
?RCS:
```

```
?MAKE:inc_version_list inc_version_list_init d_inc_version_list: cat sed \
 Getfile perl5 version api_versionstring rm Myread archname \
 prefix sitelib_stem exe_ext
?MAKE: -pick add $@ %<
?Y:TOP
?S:inc_version_list:
?S: This variable specifies the list of subdirectories in over
?S: which perl.c:incpush() and lib/lib.pm will automatically
?S: search when adding directories to @INC.  The elements in
?S: the list are separated by spaces.  This is only useful
?S: if
 you have a perl library directory tree structured like the
?S: default one.  See INSTALL for how this works.  The versioned
?S: site_perl directory was introduced in 5.005, so that is the
?S: lowest possible value.
?S:
?S: This list includes architecture-dependent directories back to
?S: version $api_versionstring (e.g. 5.5.640) and
?S: architecture-independent directories all the way back to
?S: 5.005.
?S:.
?S:inc_version_list_init:
?S: This variable holds the same list as inc_version_list, but
?S: each item is enclosed in double quotes and separated by commas,
?S: suitable for use in the PERL_INC_VERSION_LIST initialization.
?S:.
?S:d_inc_version_list:
?S: This variable conditionally defines PERL_INC_VERSION_LIST.
?S: It is set to undef when PERL_INC_VERSION_LIST is empty.
?S:.
?C:PERL_INC_VERSION_LIST:
?C: This variable specifies the list of subdirectories in over
?C: which perl.c:incpush() and lib/lib.pm will automatically
?C: search when adding directories to @INC, in a format suitable
?C: for
 a C initialization string.  See the inc_version_list entry
?C: in Porting/Glossary for more details.
?C:.
?H:#$d_inc_version_list PERL_INC_VERSION_LIST $inc_version_list_init  /**/
?H:.
?T:stem
: Determine list of previous versions to include in @INC
$cat > getverlist <<EOPL
#!$perl5
use strict;
use warnings;
use File::Basename;
my \$api_versionstring = "$api_versionstring";
```

```
my \$version = "$version";
my \$stem = "$sitelib_stem";
my \$archname = "$archname";
EOPL
 $cat >> getverlist <<'EOPL'
# The list found is stored twice for each entry: the original name, and
# the binary broken down version into pack "s>s>s>", so sorting is easy
# and unambiguous.  This will work for all versions that have a maximum
# of three digit per group separate by '.'s or '_'s. Names are extended
# with ".0.0" to ensure at least three elements for the pack.
#                                -- H.Merijn Brand (m)'06 23-10-2006

my @inc_version_list;
my @candidates;
# XXX Redo to do opendir/readdir?
if
 (-d $stem) {
   chdir($stem);
   ;@candidates = map {
 [ $_, pack "s>s>s>", split m/[._]/, "$_.0.0" ] } glob("5.*");
   ;@candidates = sort { $a->[1] cmp $b->[1]} @candidates;
}
else {
   ;@candidates = ();
}

my ($pversion, $aversion, $vsn5005) = map {
   pack "s>s>s>", split m/[._]/, "$_.0.0" } $version, $api_versionstring, "5.005";
foreach my $d (@candidates) {
   if ($d->[1] lt $pversion) {
 if ($d->[1] ge $aversion) {
     unshift(@inc_version_list, grep { -d } $d->[0]."/$archname", $d->[0]);
 }
 elsif ($d->[1] ge $vsn5005) {
     unshift(@inc_version_list, grep { -d } $d->[0]);
 }
   }
   else {
 # Skip newer version.  I.e. don't look in
 # 5.7.0 if we're installing 5.6.1.
   }
}

if (@inc_version_list) {
   print join(' ', @inc_version_list);
}
else {
   # Blank space to preserve value for next Configure run.
```

```
   print " ";
}
EOPL
chmod +x getverlist
case "$inc_version_list" in
") if test -x "$perl5$exe_ext"; then
  dflt=`$perl5 getverlist`
 else
  dflt='none'
 fi
 ;;
$undef)
 dflt='none' ;;
?X:     Configure -Dinc_version_list='5.6.0/$archname 5.6.0' ...
*)  eval dflt=\"$inc_version_list\" ;;
esac
case "$dflt" in
"|' ') dflt=none ;;
esac
case "$dflt" in
5.005) dflt=none ;;
esac
$cat <<EOM

In order to ease the process of upgrading, this version of perl
can be configured to use modules built and installed with earlier
versions of perl that were installed under $prefix.  Specify here
the list of earlier versions that this version of perl should check.
If Configure detected no earlier versions of perl installed under
$prefix, then the list will be empty.  Answer 'none' to tell perl
to not search earlier versions.

The default should almost always be sensible, so if you're not sure,
just accept the default.
EOM

rp='List of earlier versions to include in @INC?'
. ./myread
case "$ans" in
[Nn]one|"|' '|$undef) inc_version_list=' ' ;;
*) inc_version_list="$ans" ;;
esac
case "$inc_version_list" in
"|' ')
 inc_version_list_init='0'
 d_inc_version_list="$undef"
 ;;
*) inc_version_list_init=`echo
```

```
 $inc_version_list |
  $sed -e 's/^/"/' -e 's/ /","/g' -e 's/$/",0/'`
 d_inc_version_list="$define"
 ;;
esac
$rm -f getverlist
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/inc_version_list.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:use64bitint use64bitall archname64: Myread Oldconfig Setvar test \
 usemorebits longsize ccflags d_quad uquadtype Compile rm_try run
?MAKE: -pick add $@ %<
?Y:TOP
?S:use64bitint:
?S: This variable conditionally defines the USE_64_BIT_INT symbol,
?S: and indicates that 64-bit integer types should be used
?S: when available.  The minimal possible 64-bitness
?S: is employed, just enough to get 64-bit integers into Perl.
?S: This may mean using for example "long longs", while your memory
?S: may still be limited to 2 gigabytes.
?S:.
?S:use64bitall:
?S: This variable conditionally defines the USE_64_BIT_ALL symbol,
?S: and indicates that 64-bit integer types should be used
?S: when available.  The maximal
 possible
?S: 64-bitness is employed: LP64 or ILP64, meaning that you will
?S: be able to use more than 2 gigabytes of memory.  This mode is
?S: even more binary incompatible than USE_64_BIT_INT. You may not
?S: be able to run the resulting executable in a 32-bit CPU at all or
?S: you may need at least to reboot your OS to 64-bit mode.
?S:.
?S:archname64:
?S: This variable is used for the 64-bitness part of $archname.
?S:.
?C:USE_64_BIT_INT:
?C: This symbol, if defined, indicates that 64-bit integers should
?C: be used when available.  If not defined, the native integers
```

```
?C: will be employed (be they 32 or 64 bits).  The minimal possible
?C: 64-bitness is used, just enough to get 64-bit integers into Perl.
?C: This may mean using for example "long longs", while your memory
?C: may still be limited to 2 gigabytes.
?C:.
?C:USE_64_BIT_ALL:
?C: This symbol, if defined, indicates that 64-bit integers should
?C: be used when available.  If not defined, the native integers
?C: will be used (be
 they 32 or 64 bits).  The maximal possible
?C: 64-bitness is employed: LP64 or ILP64, meaning that you will
?C: be able to use more than 2 gigabytes of memory.  This mode is
?C: even more binary incompatible than USE_64_BIT_INT. You may not
?C: be able to run the resulting executable in a 32-bit CPU at all or
?C: you may need at least to reboot your OS to 64-bit mode.
?C:.
?H:?%<:#ifndef USE_64_BIT_INT
?H:?%<:#$use64bitint USE_64_BIT_INT  /**/
?H:?%<:#endif
?H:?%<:#ifndef USE_64_BIT_ALL
?H:?%<:#$use64bitall USE_64_BIT_ALL  /**/
?H:?%<:#endif
?H:.
?INIT:archname64="
?LINT:extern ccflags
?LINT:use usemorebits
?LINT:extern use64bits
?LINT:extern uselonglong
?LINT:extern uselonglongs
?LINT:extern use64bitints
?LINT:extern use64bitsint
?LINT:extern use64bitsall
?T:libcquad
?F:!try
?F:!use64bitint.cbu
?F:!use64bitall.cbu
: Do we want 64bit support
case "$uselonglong" in
"$define"|true|[yY]*)
 cat <<EOM >&4

*** Configure -Duselonglong is deprecated, using -Duse64bitint instead.
EOM
 use64bitint="$define"
 ;;
esac
case
```

```
 "$use64bits" in
"$define"|true|[yY]*)
 cat <<EOM >&4

*** Configure -Duse64bits is deprecated, using -Duse64bitint instead.
EOM
 use64bitint="$define"
 ;;
esac
case "$use64bitints" in
"$define"|true|[yY]*)
 cat <<EOM >&4

*** There is no Configure -Duse64bitints, using -Duse64bitint instead.
EOM
 use64bitint="$define"
 ;;
esac
case "$use64bitsint" in
"$define"|true|[yY]*)
 cat <<EOM >&4

*** There is no Configure -Duse64bitsint, using -Duse64bitint instead.
EOM
 use64bitint="$define"
 ;;
esac
case "$uselonglongs" in
"$define"|true|[yY]*)
 cat <<EOM >&4

*** There is no Configure -Duselonglongs, using -Duse64bitint instead.
EOM
 use64bitint="$define"
 ;;
esac
case "$use64bitsall" in
"$define"|true|[yY]*)
 cat <<EOM >&4

*** There is no Configure -Duse64bitsall, using -Duse64bitall instead.
EOM
 use64bitall="$define"
 ;;
esac

case "$ccflags" in
*-DUSE_LONG_LONG*|*-DUSE_64_BIT_INT*|*-DUSE_64_BIT_ALL*) use64bitint="$define";;
```

```
esac
case "$use64bitall" in
"$define"|true|[yY]*)
 use64bitint="$define" ;;
esac

case "$longsize" in
8) cat <<EOM

You have natively 64-bit long integers.
EOM
  val="$define"
  ;;
*) case "$use64bitint" in
  "$define"|true|[yY]*) dflt='y';;
  *) dflt='n';;
  esac
  case "$d_quad" in
  "$define") ;;
  *) dflt='n' ;;
  esac
  cat <<EOM

Perl can be built to take advantage of 64-bit integer types
on some systems.  To do so, Configure can be run with -Duse64bitint.
Choosing this option will most probably introduce binary incompatibilities.

If this doesn't make any sense to you, just accept the default '$dflt'.
(The default has been chosen based on your configuration.)
EOM
  rp='Try to use 64-bit integers, if available?'
  . ./myread
  case "$ans" in
  [yY]*) val="$define" ;;
  *)     val="$undef"  ;;
  esac
  ;;
esac
set use64bitint
eval $setvar

case "$use64bitall" in
"$define"|true|[yY]*) dflt='y' ;;
*) case "$longsize" in
  8) dflt='y' ;;
  *) dflt='n' ;;
  esac
  ;;
```

```
esac
cat <<EOM

You may also
 choose to try maximal 64-bitness.  It means using as much
64-bitness as possible on the platform.  This in turn means even more
binary incompatibilities.  On the other hand, your platform may not
have any more 64-bitness available than what you already have chosen.

If this doesn't make any sense to you, just accept the default '$dflt'.
(The default has been chosen based on your configuration.)
EOM
rp='Try to use maximal 64-bit support, if available?'
. ./myread
case "$ans" in
[yY]*) val="$define" ;;
*)     val="$undef"  ;;
esac
set use64bitall
eval $setvar
case "$use64bitall" in
"$define")
 case "$use64bitint" in
 "$undef")
  cat <<EOM

Since you have chosen a maximally 64-bit build, I'm also turning on
the use of 64-bit integers.
EOM
  use64bitint="$define" ;;
 esac
 ;;
esac

: Look for a hint-file generated 'call-back-unit'.  If the
: user has specified that a 64-bit perl is to be built,
: we may need to set or change some other defaults.
if $test -f use64bitint.cbu; then
 echo "Your
 platform has some specific hints regarding 64-bit integers, using them..."
 . ./use64bitint.cbu
fi
case "$use64bitint" in
"$define"|true|[yY]*)
 : This test was common to all the OpenBSD forks, and seems harmless for
 : other platforms:
 echo " "
 echo "Checking if your C library has broken 64-bit functions..." >&4
```

```
 cat >try.c <<EOCP
#include <stdio.h>
typedef $uquadtype myULL;
int main (void)
{
   struct {
 double d;
 myULL  u;
   } *p, test[] = {
 {4294967303.15, 4294967303ULL},
 {4294967294.2,  4294967294ULL},
 {4294967295.7,  4294967295ULL},
 {0.0, 0ULL}
   };
   for (p = test; p->u; p++) {
 myULL x = (myULL)p->d;
 if (x != p->u) {
     printf("buggy\n");
     return 0;
 }
   }
   printf("ok\n");
   return 0;
}
EOCP
 set try
 if eval $compile_ok; then
     libcquad=`$run ./try`
     echo "Your C library's 64-bit functions are $libcquad."
 else
     echo "(I can't seem to compile the test program.)"
     echo "Assuming that your C library's 64-bit functions are ok."
     libcquad="ok"
 fi
 $rm_try

 case
 "$libcquad" in
     buggy*)
  cat >&4 <<EOM

*** You have a C library with broken 64-bit functions.
*** 64-bit support does not work reliably in this configuration.
*** Please rerun Configure without -Duse64bitint and/or -Dusemorebits.
*** Cannot continue, aborting.

EOM
  exit 1
```

```
  ;;
 esac
 case "$longsize" in
 4) case "$archname64" in
    ") archname64=64int ;;
    esac
    ;;
 esac
 ;;
esac

: Look for a hint-file generated 'call-back-unit'.  If the
: user has specified that a maximally 64-bit perl is to be built,
: we may need to set or change some other defaults.
if $test -f use64bitall.cbu; then
 echo "Your platform has some specific hints regarding 64-bit builds, using them..."
 . ./use64bitall.cbu
fi
case "$use64bitall" in
"$define"|true|[yY]*)
 case "$longsize" in
 4) case "$archname64" in
    "|64int) archname64=64all ;;
    esac
    ;;
 esac
 ;;
esac

case "$d_quad:$use64bitint" in
$undef:$define)
 cat >&4 <<EOF

*** You have chosen to use 64-bit
 integers,
*** but none can be found.
*** Please rerun Configure without -Duse64bitint and/or -Dusemorebits.
*** Cannot continue, aborting.

EOF
 exit 1
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/use64bits.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: alignbytes.U,v 3.0.1.2 1994/10/29 16:02:28 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: alignbytes.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:02:28  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:25:20  ram
?RCS: patch23: avoid ALIGNBYTES, since it conflicts on NetBSD
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:23  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:alignbytes: Myread Compile cat rm_try multiarch run test nvtype
?MAKE: -pick add $@ %<
?S:alignbytes:
?S: This
 variable holds the number of bytes required to align a
?S: double-- or a long double when applicable. Usual values are
?S: 2, 4 and 8.  The default is eight, for safety.
?S:.
?X: This used to be called ALIGNBYTES, but that conflicts with
?X: <machines/param.h> in NetBSD.
?C:MEM_ALIGNBYTES (ALIGNBYTES):
?C: This symbol contains the number of bytes required to align a
?C: double, or a long double when applicable. Usual values are 2,
?C: 4 and 8. The default is eight, for safety.  For cross-compiling
?C: or multiarch support, Configure will set a minimum of 8.
?C:.
?H:?%<:#define MEM_ALIGNBYTES $alignbytes
?H:.
?F:!try
: check for alignment requirements
echo " "
case "$alignbytes" in
   ") echo "Checking alignment constraints..." >&4
 $cat >try.c <<EOCP
#include <stdio.h>
struct foobar {
```

```
   char foo;
   $nvtype bar;
} try_algn;
int main()
{
   printf("%d\n", (int)((char *)&try_algn.bar - (char *)&try_algn.foo));
   return(0);
}
EOCP
 set try
 if eval $compile_ok; then
     dflt=`$run
 ./try`
 else
     dflt='8'
     echo "(I can't seem to compile the test program...)"
 fi
 case "$multiarch" in
     *$define*)
  : The usual safe value is 8, but Darwin with -Duselongdouble
  : needs 16.  Hence, we will take 8 as a minimum, but allow
  : Configure to pick a larger value if needed.
  if $test "$dflt" -lt 8; then
      dflt='8'
      echo "Setting alignment to 8 for multiarch support.">&4
  fi
  ;;
 esac
 ;;
   *) dflt="$alignbytes"
 ;;
esac
rp="Doubles must be aligned on a how-many-byte boundary?"
. ./myread
alignbytes="$ans"
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/alignbytes.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: lns.U,v 3.0.1.1 1994/06/20 07:05:52 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: lns.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  07:05:52  ram
?RCS: patch30: created by ADO
?RCS:
?X:
?X: This unit checks whether symbolic links are really supported.
?X: We can't rely on d_symlink because that may be listed in the
?X: C library but unimplemented.
?X:
?MAKE:lns: ln rm touch
?MAKE: -pick add $@ %<
?S:lns:
?S: This variable holds the name of the command to make
?S: symbolic
 links (if they are supported).  It can be used
?S: in the Makefile. It is either 'ln -s' or 'ln'
?S:.
: determine whether symbolic links are supported
echo " "
$touch blurfl
if $ln -s blurfl sym > /dev/null 2>&1 ; then
 echo "Symbolic links are supported." >&4
 lns="$ln -s"
else
 echo "Symbolic links are NOT supported." >&4
 lns="$ln"
fi
$rm -f blurfl sym
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/lns.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_bcmp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_bcmp.U,v $
?RCS: Revision 3.0.1.2  1993/10/16  13:47:52  ram
?RCS: patch12: added magic support for bcmp()
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:00:44  ram
?RCS: patch10: now only defines HAS_BCMP, no macro remap on memcmp (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_bcmp: Inlibc
?MAKE: -pick add $@ %<
?S:d_bcmp:
?S: This variable conditionally defines the HAS_BCMP symbol
 if
?S: the bcmp() routine is available to compare strings.
?S:.
?C:HAS_BCMP:
?C: This symbol is defined if the bcmp() routine is available to
?C: compare blocks of memory.
?C:.
?H:#$d_bcmp HAS_BCMP /**/
?H:.
?M:bcmp: HAS_BCMP
?M:#ifndef HAS_BCMP
?M:#ifndef bcmp
?M:#define bcmp(s,d,l) memcmp((s),(d),(l))
?M:#endif
?M:#endif
?M:.
?LINT:set d_bcmp
: see if bcmp exists
set bcmp d_bcmp
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_bcmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Loc_sed.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?X: This is used in perl.c.
?MAKE:full_sed: sed
?MAKE: -pick add $@ %<
?S:full_sed:
?S: This variable contains the full pathname to 'sed', whether or
?S: not the user has specified 'portability'.  This is only used
?S: in the compiled C program, and we assume that all systems which
?S: can share this executable will have the same full pathname to
?S: 'sed.'
?S:.
?X: Yes, I know about the C symbol PORTABLE, but I think sed
?X: is
 unlikely to move, and I'm too lazy to add all the
?X: #ifdef PORTABLE sections to the perl source.
?X:
?C:LOC_SED:
?C: This symbol holds the complete pathname to the sed program.
?C:.
?H:#define LOC_SED  "$full_sed" /**/
?H:.
: Store the full pathname to the sed program for use in the C program
full_sed=$sed
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Loc_sed.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: mailer.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: mailer.U,v $
?RCS: Revision 3.0.1.3  1995/01/11  15:32:11  ram
?RCS: patch45: can now use Loc variables since path stripping is deferred
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:10:04  ram
```

```
?RCS: patch23: ensure full path value is used for rmail also
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:14:18  ram
?RCS: patch16: now use _sendmail vars and friends for portability issues
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:10  ram
?RCS: Baseline for dist
 3.0 netwide release.
?RCS:
?MAKE:mailer: test cat rmail mail smail sendmail Getfile Oldconfig
?MAKE: -pick add $@ %<
?S:mailer:
?S: This variable contains the full pathname of a reasonable mailer.
?S: By reasonable, we mean some program which can understand internet
?S: addresses or at least forward them to some internet router. This
?S: mailer should be invoked as "mailer [options] recipients <mail".
?S:.
: determine the name of a reasonable mailer
case "$mailer" in
")
 if $test -f "$sendmail"; then
  dflt="$sendmail"
 elif $test -f "$smail"; then
  dflt="$smail"
 elif $test -f "$rmail"; then
  dflt="$rmail"
 elif $test -f /bin/mail; then
  dflt=/bin/mail
 else
  dflt=$mail
 fi
 ;;
*)  dflt="$mailer";;
esac
$cat <<EOM

I need the full pathname of the program used to deliver mail on your system.
A typical answer would be /usr/lib/sendmail or /bin/rmail, but you may choose
any other program, as long as it can be fed from standard input and will
honour any user-supplied headers.

EOM
fn=f
rp='Mail
 transport agent to be used?'
. ./getfile
mailer="$ans"
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/mailer.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2016 Dagfinn Ilmari Mannsker & H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X:
?X: This unit produces a variable that is intended to be eval'ed in
?X: order to define/undefine a symbol. A consistency check is made
?X: regarding any previous value and a warning is issued if there
?X: is any discrepancy.
?X:
?X: To use it, say:
?X: set d_siginfo_si_errno siginfo_t int si_errno $d_sigaction signal.h
?X: eval $hasfield_t;
?X:
?MAKE:Hasfield_t: test Compile rm_try Setvar
?MAKE: -pick add $@ %<
?LINT:define hasfield_t
?S:hasfield_t:
?S: Internal macro for Configure
?S:.
?V:hasfield_t:
?T:varname struct type field
: Define hasfield_t macro for Configure internal use
hasfield_t='varname=$1; struct=$2; type=$3; field=$4; shift; shift; shift; shift;
while $test $# -ge 2; do
   case
 "$1" in
 $define) echo "#include <$2>";;
   esac ;
   shift 2;
done > try.c;
echo "int main () { $struct foo; $type bar = foo.$field; }" >> try.c;
set try;
if eval $compile; then
 val="$define";
else
 val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try'
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/Hasfield_t.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_vfork.U,v 3.0.1.6 1994/08/29 16:18:21 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_vfork.U,v $
?RCS: Revision 3.0.1.6  1994/08/29  16:18:21  ram
?RCS: patch32: set default to 'y' the first time
?RCS:
?RCS: Revision 3.0.1.5  1994/06/20  06:59:14  ram
?RCS: patch30: usevfork was not always properly set
?RCS:
?RCS: Revision 3.0.1.4  1994/05/13  15:20:56  ram
?RCS: patch27: modified to avoid spurious Whoa warnings (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/05/06  14:59:09  ram
?RCS: patch23: now explicitly ask whether vfork() should be used
 (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1993/10/16  13:49:39  ram
?RCS: patch12: added magic for vfork()
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:06:57  ram
?RCS: patch10: removed automatic remapping of vfork on fork (WAD)
?RCS: patch10: added compatibility code for older config.sh (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_vfork usevfork d_pseudofork: Inlibc Myread Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_vfork:
?S: This variable conditionally defines the HAS_VFORK symbol, which
?S: indicates the vfork() routine is available.
?S:.
?S:usevfork:
?S: This variable is set to true when the user accepts to use vfork.
?S: It is set to false when no vfork is available or when the user
```

```
?S: explicitly requests not to use vfork.
?S:.
?S:d_pseudofork:
?S: This variable conditionally defines the HAS_PSEUDOFORK symbol,
?S: which indicates that an emulation of the fork routine is available.
?S:.
?C:HAS_VFORK (VFORK):
?C: This
 symbol, if defined, indicates that vfork() exists.
?C:.
?H:#$d_vfork HAS_VFORK /**/
?H:.
?C:HAS_PSEUDOFORK:
?C: This symbol, if defined, indicates that an emulation of the
?C: fork routine is available.
?C:.
?H:#$d_pseudofork HAS_PSEUDOFORK /**/
?H:.
?M:vfork: HAS_VFORK
?M:#ifndef HAS_VFORK
?M:#define vfork fork
?M:#endif
?M:.
?T:d_hvfork
: backward compatibility for d_hvfork
if test X$d_hvfork != X; then
 d_vfork="$d_hvfork"
 d_hvfork="
fi
?X:==========================
: see if there is a vfork
val="
set vfork val
eval $inlibc

d_pseudofork=$undef

: Ok, but do we want to use it. vfork is reportedly unreliable in
: perl on Solaris 2.x, and probably elsewhere.
case "$val" in
$define)
 echo " "
 case "$usevfork" in
 false) dflt='n';;
 *) dflt='y';;
 esac
 cat <<'EOM'
```

```
Perl can only use a vfork() that doesn't suffer from strict
restrictions on calling functions or modifying global data in
the child.  For example, glibc-2.1 contains such a vfork()
that is unsuitable.  If your system
 provides a proper fork()
call, chances are that you do NOT want perl to use vfork().

EOM
 rp="Do you still want to use vfork()?"
 . ./myread
 case "$ans" in
 y|Y) ;;
 *)
  echo "Ok, we won't use vfork()."
  val="$undef"
  ;;
 esac
 ;;
esac
?X:
?X: Only set it when final value is known to avoid spurious Whoa's
?X: Then set usevfork accordingly to the current value, for next run
?X:
set d_vfork
eval $setvar
case "$d_vfork" in
$define) usevfork='true';;
*) usevfork='false';;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_vfork.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: orgname.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: orgname.U,v $
?RCS: Revision 3.0.1.1  1993/09/13  16:10:25  ram
?RCS: patch10: added support for /local/src to the search (WAD)
```

```
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:orgname: sed cat Myread Loc Oldconfig
?MAKE: -pick add $@ %<
?S:orgname:
?S: This variable contains the eventual value of the ORGNAME symbol,
?S: which contains either the organizaton name or the full pathname
?S: of
 a file containing the organization name.
?S:.
?C:ORGNAME:
?C: This symbol contains either the organizaton name or the full pathname
?C: of a file containing the organization name, which the program must
?C: be prepared to open and substitute the contents of.
?C:.
?H:#define ORGNAME "$orgname"  /**/
?H:.
?T:longshots xxx
: get organization name
longshots='/local/src /usr/src/new /usr/src/local /usr/local/src'
case "$orgname" in
") if xxx=`./loc news/src/defs.h x $longshots`; then
  dflt=`$sed -n 's/^.*MYORG[  ]*"\(.*\)".*$/\1/p' $xxx`
 else
  dflt=''
 fi
 ;;
*)  dflt="$orgname";;
esac
$cat << 'EOH'

Please type the name of your organization as you want it to appear on the
Organization line of outgoing articles.  (It's nice if this also specifies
your location.  Your city name is probably sufficient if well known.)
For example:

   University of Southern North Dakota, Hoople

You may also put the name of a file, as long as it begins with a slash.
For example:

   /etc/organization

EOH
orgname=""
while
```

```
 test "X$orgname" = "X"; do
 rp='Organization:'
 . ./myread
 orgname="$ans"
done
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/orgname.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2005 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_clearenv: Inlibc
?MAKE: -pick add $@ %<
?S:d_clearenv:
?S: This variable conditionally defines the HAS_CLEARENV symbol, which
?S: indicates to the C program that the clearenv () routine is available.
?S:.
?C:HAS_CLEARENV:
?C: This symbol, if defined, indicates that the clearenv () routine is
?C: available for use.
?C:.
?H:#$d_clearenv HAS_CLEARENV  /**/
?H:.
?LINT:set d_clearenv
: see if clearenv exists
set clearenv d_clearenv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_clearenv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_uwait.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_uwait.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:10:49  ram
?RCS: patch16: added knowledge about wait3()
?RCS: patch16: revised 'union wait' look-up algorithm
?RCS: patch16: fixed make dependency line accordingly
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_uwait d_uwait3: cat contains cppstdin cppminus +cppflags rm \
 Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_uwait:
?S: This symbol
 conditionally defines UNION_WAIT which indicates to the C
?S: program that argument for the wait() system call should be declared as
?S: 'union wait status' instead of 'int status'.
?S:.
?S:d_uwait3:
?S: This symbol conditionally defines UNION_WAIT3 which indicates to the C
?S: program that the first argument for the wait3() system call should be
?S: declared as 'union wait status' instead of 'int status'.
?S:.
?C:UNION_WAIT:
?C: This symbol if defined indicates to the C program that the argument
?C: for the wait() system call should be declared as 'union wait status'
?C: instead of 'int status'. You probably need to include <sys/wait.h>
?C: in the former case (see I_SYSWAIT).
?C:.
?C:UNION_WAIT3:
?C: This symbol if defined indicates to the C program that the first argument
?C: for the wait3() system call should be declared as 'union wait status'
?C: instead of 'int status'. You probably need to include <sys/wait.h>
?C: in the former case (see I_SYSWAIT). It seems safe to assume that
 the
?C: same rule applies to the second parameter of wait4().
?C:.
?H:#$d_uwait UNION_WAIT  /**/
?H:#$d_uwait3 UNION_WAIT3 /**/
?H:.
?T:val2 flags f also
?LINT:set d_uwait d_uwait3
: see if union wait is available
echo " "
?X:
?X: Unfortunately, we can't just grep <sys/wait.h> for "union wait" because
```

```
?X: some weird systems (did I hear HP-UX?) define union wait only when _BSD
?X: is defined. The same thing happens on OSF/1, who is pushing weirdness to
?X: its limits by requiring wait() to use (int *) but wait3() to use
?X: (union wait *), unless _BSD is defined and -lbsd is used, in which case
?X: wait() also expects (union wait *). Aaargh!!--RAM
?X:
set X $cppflags
shift
flags=''
also=''
for f in $*; do
 case "$f" in
 *NO_PROTO*) ;;
 *) flags="$flags $f";;
 esac
done
$cat `./findhdr sys/wait.h` /dev/null | \
 $cppstdin $flags $cppminus >wait.out 2>/dev/null
if $contains 'union.*wait.*{' wait.out >/dev/null 2>&1 ; then
 echo "Looks like your <sys/wait.h> knows about 'union wait'..."
 >&4
 val="$define"
@if UNION_WAIT
 also='also '
 if $contains 'extern.*wait[  ]*([  ]*int' wait.out >/dev/null 2>&1
 then
  echo "But wait() seems to expect an 'int' pointer (POSIX way)." >&4
  val="$undef"
  also=''
 elif $contains 'extern.*wait[  ]*([  ]*union' wait.out >/dev/null 2>&1
 then
  echo "And indeed wait() expects an 'union wait' pointer (BSD way)." >&4
 else
  echo "So we'll use that for wait()." >&4
 fi
@end
@if UNION_WAIT3 || d_uwait3
 val2="$define"
@end
@if UNION_WAIT3
 if $contains 'extern.*wait3[  ]*([  ]*int' wait.out >/dev/null 2>&1
 then
  echo "However wait3() seems to expect an 'int' pointer, weird." >&4
  val2="$undef"
 elif $contains 'extern.*wait3[  ]*([  ]*union' wait.out >/dev/null 2>&1
 then
  echo "And wait3() ${also}expects an 'union wait' pointer, fine." >&4
 else
```

```
  echo "As expected, wait3() ${also}uses an 'union wait' pointer." >&4
 fi
@end
else
 echo "No trace of 'union wait' in <sys/wait.h>..." >&4
 val="$undef"
@if UNION_WAIT && UNION_WAIT3
 echo
 "Both wait() and wait3() will use a plain 'int' pointer then." >&4
@elsif UNION_WAIT
 echo "Your wait() should be happy with a plain 'int' pointer." >&4
@elsif UNION_WAIT3
 echo "Your wait3() should be happy with a plain 'int' pointer." >&4
@end
fi
set d_uwait
eval $setvar
@if UNION_WAIT3 || d_uwait3
val="$val2"; set d_uwait3
eval $setvar
@end
$rm -f wait.out
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_uwait.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: nametype.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: nametype.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:26:09  ram
?RCS: patch36: call ./usg and ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:36:48  ram
?RCS: patch32: fixed typo: /etc/password -> /etc/passwd (WED)
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:10:09  ram
?RCS: patch10: made questions more explicit for 'Configure -s' prompting (WAD)
?RCS:
```

```
?RCS: Revision 3.0  1993/08/18  12:09:20  ram
?RCS: Baseline
 for dist 3.0 netwide release.
?RCS:
?MAKE:nametype d_passnames d_berknames d_usgnames: Myread Guess Oldconfig cat
?MAKE: -pick add $@ %<
?S:nametype:
?S: This variable indicates how full names are stored on this system.
?S: Values are bsd, usg, and other.
?S:.
?S:d_passnames:
?S: This variable conditionally defines the PASSNAMES symbol,
?S: which indicates to the C program that full names are stored in
?S: the /etc/passwd file.
?S:.
?S:d_berknames:
?S: This variable conditionally defines the PASSNAMES symbol,
?S: which indicates to the C program that full names are stored in
?S: the /etc/passwd file in Berkeley format.
?S:.
?S:d_usgnames:
?S: This variable conditionally defines the PASSNAMES symbol,
?S: which indicates to the C program that full names are stored in
?S: the /etc/passwd file in USG format.
?S:.
?C:PASSNAMES:
?C: This symbol, if defined, indicates that full names are stored in
?C: the /etc/passwd file.
?C:.
?C:BERKNAMES:
?C: This symbol, if defined, indicates that full
 names are stored in
?C: the /etc/passwd file in Berkeley format (name first thing, everything
?C: up to first comma, with & replaced by capitalized login id, yuck).
?C:.
?C:USGNAMES:
?C: This symbol, if defined, indicates that full names are stored in
?C: the /etc/passwd file in USG format (everything after - and before ( is
?C: the name).
?C:.
?H:#$d_passnames PASSNAMES /*  (undef to take name from ~/.fullname) */
?H:#$d_berknames BERKNAMES /* (that is, ":name,stuff:") */
?H:#$d_usgnames USGNAMES  /* (that is, ":stuff-name(stuff):") */
?H:.
: find out how to find out full name
case "$d_berknames" in
"$define")
 dflt=y;;
```

```
"$undef")
 dflt=n;;
*)
 if ./bsd; then
  dflt=y
 elif ./xenix; then
  dflt=y
 else
  dflt=n
 fi
 ;;
esac
$cat <<'EOM'

Does your /etc/passwd file keep full names in Berkeley/V7 format (name first
thing after ':' in GCOS field)?  In that case, a typical entry in the password
file looks like this:

   guest:**paswword**:10:100:Mister Guest User:/usr/users:/bin/sh

                         ^^^^^^^^^^^^^^^^^^
EOM
rp="Berkeley/V7 format for full name in /etc/passwd?"
. ./myread
case "$ans" in
y*) d_passnames="$define"
 d_berknames="$define"
 d_usgnames="$undef"
 nametype=bsd
 ;;
*)
 case "$d_usgnames" in
 "$define") dflt=y;;
 "$undef") dflt=n;;
 *)
  if ./usg; then
   dflt=y
  else
   dflt=n
  fi
  ;;
 esac
$cat <<'EOM'

Does your passwd file keep full names in USG format (name sandwiched between a
'-' and a '(')?  In that case, a typical entry in the password file looks like
this:
```

```
  guest:**paswword**:10:100:000-Mister Guest User(000):/usr/users:/bin/sh
                              ^^^^^^^^^^^^^^^^^^
EOM
 rp="USG format for full name in /etc/passwd?"
 . ./myread
 case "$ans" in
 n*) echo "Full name will be taken from ~/.fullname"
  d_passnames="$undef"
  d_berknames="$undef"
  d_usgnames="$undef"
  nametype=other
  ;;
 *)
  d_passnames="$define"
  d_berknames="$undef"
  d_usgnames="$define"
  nametype=usg
  ;;
 esac;;
esac
```

Found in path(s):
*
 /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/nametype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_getspnam: Inlibc
?MAKE: -pick add $@ %<
?S:d_getspnam:
?S: This variable conditionally defines HAS_GETSPNAM if getspnam() is
?S: available to retrieve SysV shadow password entries by name.
?S:.
?C:HAS_GETSPNAM:
?C: This symbol, if defined, indicates that the getspnam system call is
?C: available to retrieve SysV shadow password entries by name.
?C:.
?H:#$d_getspnam HAS_GETSPNAM  /**/
```

```
?H:.
?LINT:set d_getspnam
: see if getspnam exists
set getspnam d_getspnam
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_getspnam.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pathconf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_pathconf.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:14:54  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_pathconf d_fpathconf: Inlibc
?MAKE: -pick add $@ %<
?S:d_pathconf:
?S: This variable conditionally defines the HAS_PATHCONF symbol, which
?S: indicates to the C program that the pathconf() routine is available
?S: to determine file-system related limits and options
 associated
?S: with a given filename.
?S:.
?S:d_fpathconf:
?S: This variable conditionally defines the HAS_FPATHCONF symbol, which
?S: indicates to the C program that the pathconf() routine is available
?S: to determine file-system related limits and options associated
?S: with a given open file descriptor.
?S:.
?C:HAS_PATHCONF:
?C: This symbol, if defined, indicates that pathconf() is available
?C: to determine file-system related limits and options associated
?C: with a given filename.
?C:.
?C:HAS_FPATHCONF:
```

```
?C: This symbol, if defined, indicates that pathconf() is available
?C: to determine file-system related limits and options associated
?C: with a given open file descriptor.
?C:.
?H:#$d_pathconf HAS_PATHCONF  /**/
?H:#$d_fpathconf HAS_FPATHCONF  /**/
?H:.
?LINT:set d_pathconf
?LINT:set d_fpathconf
: see if pathconf exists
set pathconf d_pathconf
eval $inlibc

@if d_fpathconf || HAS_FPATHCONF
: see if fpathconf exists
set fpathconf d_fpathconf
eval $inlibc

@end
```

Found in path(s):
*
/opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_pathconf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sighold.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sighold.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:21  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sighold: Inlibc
?MAKE: -pick add $@ %<
?S:d_sighold:
?S: This variable conditionally defines HAS_SIGHOLD if sighold() is
?S: available to hold signals.
?S:.
?C:HAS_SIGHOLD:
?C: This symbol, if defined, indicates that the sighold routine is
```

```
?C: available to hold signals.
?C:.
?H:#$d_sighold HAS_SIGHOLD /**/
?H:.
?LINT:set d_sighold
:
 see if sighold exists
set sighold d_sighold
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sighold.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: modetype.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:25:07  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:modetype: Myread Typedef
?MAKE: -pick add $@ %<
?S:modetype:
?S: This variable defines modetype to be something like mode_t,
?S: int, unsigned short, or whatever type is used to declare file
?S: modes for system calls.
?S:.
?C:Mode_t:
?C: This symbol holds the type used to declare file modes
?C: for systems calls.
  It is usually mode_t, but may be
?C: int or unsigned short.  It may be necessary to include <sys/types.h>
?C: to get any typedef'ed information.
?C:.
?H:#define Mode_t $modetype  /* file mode parameter for system calls */
?H:.
: see what type is used for mode_t
```

```
set mode_t modetype int stdio.h sys/types.h
eval $typedef
dflt="$modetype"
echo " "
rp="What type is used for file modes?"
. ./myread
modetype="$ans"
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/modetype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ulimit.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_ulimit.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_ulimit: Inlibc
?MAKE: -pick add $@ %<
?S:d_ulimit:
?S: This variable conditionally defines HAS_ULIMIT if ulimit() is
?S: available to get the user limits.
?S:.
?C:HAS_ULIMIT (ULIMIT):
?C: This symbol, if defined, indicates that the ulimit system call is
?C: available to get the user limits.
?C:.
?H:#$d_ulimit HAS_ULIMIT  /**/
?H:.
?LINT:set
 d_ulimit
: see if ulimit exists
set ulimit d_ulimit
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_ulimit.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:selectminbits: Compile cat rm_try Oldconfig d_select \
 i_time i_systime i_systimek i_sysselct selecttype d_socket \
 byteorder Myread Setvar run i_stdlib ptrsize
?MAKE: -pick add $@ %<
?S:selectminbits:
?S: This variable holds the minimum number of bits operated by select.
?S: That is, if you do select(n, ...), how many bits at least will be
?S: cleared in the masks if some activity is detected.  Usually this
?S: is either n or 32*ceil(n/32), especially many little-endians do
?S: the latter.  This is only useful if
 you have select(), naturally.
?S:.
?C:SELECT_MIN_BITS:
?C: This symbol holds the minimum number of bits operated by select.
?C: That is, if you do select(n, ...), how many bits at least will be
?C: cleared in the masks if some activity is detected.  Usually this
?C: is either n or 32*ceil(n/32), especially many little-endians do
?C: the latter.  This is only useful if you have select(), naturally.
?C:.
?H:#define SELECT_MIN_BITS $selectminbits /**/
?H:.
?T:bits
?T:safebits
?F:!try
: check for the select 'width'
case "$selectminbits" in
") safebits=`expr $ptrsize \* 8`
   case "$d_select" in
 $define)
  $cat <<EOM

Checking to see on how many bits at a time your select() operates...
EOM
  $cat >try.c <<EOCP
#include <sys/types.h>
#$i_time I_TIME
```

```
#$i_systime I_SYS_TIME
#$i_systimek I_SYS_TIME_KERNEL
#ifdef I_TIME
#   include <time.h>
#endif
#ifdef I_SYS_TIME
#   ifdef I_SYS_TIME_KERNEL
# define KERNEL
#   endif
#   include <sys/time.h>
#   ifdef I_SYS_TIME_KERNEL
# undef KERNEL
#   endif
#endif
#$i_sysselct
 I_SYS_SELECT
#ifdef I_SYS_SELECT
#include <sys/select.h>
#endif
#$d_socket HAS_SOCKET
#ifdef HAS_SOCKET
#   include <sys/socket.h> /* Might include <sys/bsdtypes.h> */
#endif
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
$selecttype b;
#define S sizeof(*(b))
#define MINBITS 64
#define NBYTES (S * 8 > MINBITS ? S : MINBITS/8)
#define NBITS  (NBYTES * 8)
int main() {
   char *s = (char *)malloc(NBYTES);
   struct timeval t;
   int i;
   FILE* fp;
   int fd;

   if (!s)
 exit(1);
   fclose(stdin);
   fp = fopen("try.c", "r");
   if (fp == 0)
     exit(2);
   fd = fileno(fp);
   if (fd < 0)
```

```
    exit(3);
  b = ($selecttype)s;
  for (i = 0; i < NBITS; i++)
 FD_SET(i, b);
  t.tv_sec  = 0;
  t.tv_usec = 0;
  select(fd + 1, b, 0, 0, &t);
  for (i = NBITS - 1; i > fd && FD_ISSET(i, b); i--);
  free(s);
  printf("%d\n", i + 1);
  return 0;
}
EOCP
  set try
  if eval $compile_ok; then
   selectminbits=`$run
 ./try 2>/dev/null`
   case "$selectminbits" in
   ") cat >&4 <<EOM
Cannot figure out on how many bits at a time your select() operates.
I'll play safe and guess it is $safebits bits.
EOM
    selectminbits=$safebits
    bits="$safebits bits"
    ;;
   1) bits="1 bit" ;;
   *) bits="$selectminbits bits" ;;
   esac
   echo "Your select() operates on $bits at a time." >&4
  else
   rp='What is the minimum number of bits your select() operates on?'
   case "$byteorder" in
   12345678) dflt=64 ;;
   1234)  dflt=32 ;;
   *)  dflt=1 ;;
   esac
   . ./myread
   val=$ans
   selectminbits="$val"
  fi
  $rm_try
  ;;
 *) : no select, so pick a harmless default
  selectminbits=$safebits
  ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/selectminbits.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpgrp2.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getpgrp2.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getpgrp2: Inlibc
?MAKE: -pick add $@ %<
?S:d_getpgrp2:
?S: This variable conditionally defines the HAS_GETPGRP2 symbol, which
?S: indicates to the C program that the getpgrp2() (as in DG/UX) routine
?S: is available to get the current process group.
?S:.
?C:HAS_GETPGRP2 (GETPGRP2):
?C: This symbol, if defined, indicates that the
 getpgrp2() (as in DG/UX)
?C: routine is available to get the current process group.
?C:.
?H:#$d_getpgrp2 HAS_GETPGRP2  /**/
?H:.
?LINT:set d_getpgrp2
: see if getpgrp2 exists
set getpgrp2 d_getpgrp2
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getpgrp2.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_atolf: Inlibc
?MAKE: -pick add $@ %<
?S:d_atolf:
?S: This variable conditionally defines the HAS_ATOLF symbol, which
?S: indicates to the C program that the atolf() routine is available.
?S:.
?C:HAS_ATOLF:
?C: This symbol, if defined, indicates that the atolf routine is
?C: available to convert strings into long doubles.
?C:.
?H:#$d_atolf HAS_ATOLF  /**/
?H:.
?LINT:set d_atolf
: see if atolf exists
set atolf d_atolf
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/atolf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_atanh: Inlibc
?MAKE: -pick add $@ %<
?S:d_atanh:
?S: This variable conditionally defines the HAS_ATANH symbol, which
?S: indicates to the C program that the atanh() routine is available.
?S:.
?C:HAS_ATANH:
?C: This symbol, if defined, indicates that the atanh routine is
?C: available to do the inverse hyperbolic tangent function.
?C:.
?H:#$d_atanh HAS_ATANH  /**/
?H:.
?LINT:set d_atanh
: see if atanh exists
set atanh d_atanh
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_atanh.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Loc.U 14 2006-08-28 16:51:14Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Loc.U,v $
?RCS: Revision 3.0.1.10  1997/02/28  15:04:16  ram
?RCS: patch61: allow users to specify paths on the command line
?RCS: patch61: will now substitute cp for ln if not supported
?RCS:
?RCS: Revision 3.0.1.9  1995/09/25  09:11:24  ram
?RCS: patch59: commented the purpose of the #un-def directive
?RCS: patch59: abort Configure run when mandatory command is missing
?RCS:
?RCS: Revision 3.0.1.8  1995/07/25  13:40:40  ram
?RCS: patch56: now knows about
 OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.7  1995/01/11  15:13:37  ram
?RCS: patch45: protected "sh -c" within backquotes for Linux and SGI
?RCS: patch45: added path lookup for the 'comm' program
?RCS:
?RCS: Revision 3.0.1.6  1994/10/29  15:56:14  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: be careful and guard against wildcard searching (ADO)
?RCS:
?RCS: Revision 3.0.1.5  1994/06/20  06:54:55  ram
?RCS: patch30: now locates find
?RCS:
?RCS: Revision 3.0.1.4  1994/05/13  15:18:15  ram
?RCS: patch27: added byacc to the trylist (ADO)
?RCS: patch27: lint lines reformatted (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/01/24  14:01:44  ram
?RCS: patch16: added metalint hint on changed PATH variable
?RCS:
?RCS: Revision 3.0.1.2  1993/12/15  08:16:52  ram
?RCS: patch15: now set _test variable when test is built-in
?RCS: patch15: fixed rare cases where echo is not needed
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  15:47:13  ram
```

```
?RCS: patch10: test program not always
 in /bin/test (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script "loc" which can be used to find out
?X: where in a list of directories something is.  It then uses loc to
?X: determine the location of commonly used programs.  It leaves loc sitting
?X: around for other Configure units to use, but arranges for its demise
?X: at the end of Configure.
?X:
?X: To add a new program to find, add it both to the ?MAKE: line and to either
?X: the loclist or trylist variable.
?X:
?X: I put startsh at the end of the dependency list, in order to avoid the
?X: loading of the spitshell unit before the instructions.
?X:
?MAKE:Loc awk ar bash bison byacc cat chgrp chmod chown \
 comm compress cp cpio cpp csh date echo egrep emacs expr find flex \
 gmake gzip grep inews ksh less line lint ln lp lpr ls mail mailx \
 make mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \
 shar sleep smail sort
 submit tail tar tbl tee test touch tr troff \
 uname uniq uuname vi zcat zip: eunicefix n c startsh Instruct sysroot
?MAKE: -pick weed $@ %<
?LINT:describe awk ar bash bison byacc cat chgrp chmod chown \
 comm compress cp cpio cpp csh date echo egrep emacs expr find flex \
 gmake gzip grep inews ksh less line lint ln lp lpr ls mail mailx \
 make mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \
 shar sleep smail sort submit tail tar tbl tee test touch tr troff \
 uname uniq uuname vi zcat zip
?V::pth loclist trylist
?F:./loc test_h
?T:thisthing thing xxx dir file say _test DJGPP
?LINT:change PATH _egrep _ln _make _less
?LINT:extern _exe
: find out where common programs are
echo " "
echo "Locating common programs..." >&4
cat <<EOSC >loc
$startsh
case \$# in
0) exit 1;;
esac
thing=\$1
shift
```

```
dflt=\$1
shift
for dir in \$*; do
 case "\$thing" in
 .)
 if test -d \$dir/\$thing; then
  echo \$dir
  exit 0
 fi
 ;;
 *)
?X: Be careful in case thing includes wildcards that might expand
 to multiple
?X: files.  Choose the last one.  This happens when searching for shared
?X: libraries with version numbers.  How to choose which one we want is
?X: probably an insoluble problem, in general.
?X: Some folks leave things like libc.so.orig around w/o read
?X: permission.  A -r test would handle that, but since ./loc is
?X: also used to find executables (which are installed w/o read
?X: permission on SCO ODT 3.0, we can't include the -r test.
?X: If you need to use an _exe that is different from .exe
?X: you need to set it in Head.U.
 for thisthing in \$dir/\$thing; do
  : just loop through to pick last item
 done
 if test -f \$thisthing; then
  echo \$thisthing
  exit 0
 elif test "X$_exe" != X -a -f \$thisthing$_exe; then
  echo \$thisthing
  exit 0
 elif test -f \$dir/\$thing.exe; then
  if test -n "$DJGPP"; then
   echo \$dir/\$thing.exe
  elif test "$eunicefix" != ":"; then
   : on Eunice apparently
   echo \$dir/\$thing
  fi
  exit 0
 fi
 ;;
 esac
done
echo \$dflt
exit
 1
EOSC
chmod +x loc
```

```
$eunicefix loc
loclist="
?awk:awk
?cat:cat
?chgrp:chgrp
?chmod:chmod
?chown:chown
?comm:comm
?cp:cp
?echo:echo
?expr:expr
?find:find
?grep:grep
?ls:ls
?mkdir:mkdir
?mv:mv
?rm:rm
?sed:sed
?sleep:sleep
?sort:sort
?tail:tail
?touch:touch
?tr:tr
?uniq:uniq
"
trylist="
?Mcc:Mcc
?ar:ar
?bash:bash
?bison:bison
?byacc:byacc
?compress:compress
?cpio:cpio
?cpp:cpp
?csh:csh
?date:date
?egrep:egrep
?emacs:emacs
?flex:flex
?gmake:gmake
?gzip:gzip
?inews:inews
?ksh:ksh
?less:less
?line:line
?lint:lint
?ln:ln
?lp:lp
```

```
?lpr:lpr
?mail:mail
?mailx:mailx
?make:make
?more:more
?nm:nm
?nroff:nroff
?perl:perl
?pg:pg
?pmake:pmake
?pr:pr
?rmail:rmail
?sendmail:sendmail
?shar:shar
?smail:smail
?submit:submit
?tar:tar
?tbl:tbl
?tee:tee
?test:test
?troff:troff
?uname:uname
?uuname:uuname
?vi:vi
?zcat:zcat
?zip:zip
"
?LINT:set awk ar bash bison byacc cat chgrp chmod chown \
 comm compress cp cpio cpp csh date echo emacs expr find flex \
 gmake gzip grep inews ksh line lint lp lpr ls mail mailx
 \
 mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \
 shar sleep smail sort submit tail tar tbl tee touch tr troff \
 uname uniq uuname vi zcat zip
pth=`echo $PATH | sed -e "s/$p_/ /g"`
pth="$pth $sysroot/lib $sysroot/usr/lib"
for file in $loclist; do
?X:
?X: Allow them to -Dmake=pmake on the command line for instance...
?X: If the file is not fully qualified, as in -Dmake=pmake, then we
?X: look the for the specified command (pmake here). If they say
?X: -Dmake=/sbin/make for instance, then we make sure the file
?X: exists, or we die...
?X:
 eval xxx=\$$file
 case "$xxx" in
 /*|?:[\\/]*)
  if test -f "$xxx"; then
```

```
  : ok
 else
  echo "WARNING: no $xxx -- ignoring your setting for $file." >&4
  xxx=`./loc $file $file $pth`
 fi
 ;;
") xxx=`./loc $file $file $pth`;;
*) xxx=`./loc $xxx $xxx $pth`;;
esac
eval $file=$xxx$_exe
eval _$file=$xxx
case "$xxx" in
/*)
 echo $file is in $xxx.
 ;;
?X: Under OS/2, we have PC-like paths
 ?:[\\/]*)
 echo $file is in $xxx.
 ;;
 *)
 echo
 "I don't know where '$file' is, and my life depends on it." >&4
 echo "Go find a public domain implementation or fix your PATH setting!" >&4
 exit 1
 ;;
esac
done
echo " "
echo "Don't worry if any of the following aren't found..."
say=offhand
for file in $trylist; do
?X: Allow them to -Dmake=pmake on the command line for instance (see above)
 eval xxx=\$$file
 case "$xxx" in
 /*|?:[\\/]*)
  if test -f "$xxx"; then
   : ok
  else
   echo "WARNING: no $xxx -- ignoring your setting for $file." >&4
   xxx=`./loc $file $file $pth`
  fi
  ;;
 ") xxx=`./loc $file $file $pth`;;
 *) xxx=`./loc $xxx $xxx $pth`;;
 esac
 eval $file=$xxx$_exe
 eval _$file=$xxx
 case "$xxx" in
```

```
 /*)
  echo $file is in $xxx.
  ;;
?X: Under OS/2, we have PC-like paths
 ?:[\\/]*)
  echo $file is in $xxx.
  ;;
 *)
  echo "I don't see $file out there, $say."
  say=either
  ;;
 esac
done
case "$egrep" in
egrep)
 echo "Substituting grep for egrep."
 egrep=$grep
 _egrep=$grep
 ;;
esac
@if less
case "$less"
 in
") ;;
*) if $less -R </dev/null >/dev/null 2>&1; then
        echo "Substituting less -R for less."
        less="$less -R"
        _less=$less
 fi
 ;;
esac
@end
@if ln
case "$ln" in
ln)
 echo "Substituting cp for ln."
 ln=$cp
 _ln=$cp
 ;;
esac
@end
@if make || gmake
case "$make" in
make)
 case "$gmake" in
 gmake)
 echo "I can't find make or gmake, and my life depends on it." >&4
 echo "Go find a public domain implementation or fix your PATH setting!" >&4
```

```
 exit 1
 ;;
 esac
 ;;
esac
case "$gmake" in
gmake) ;;
*) # We can't have osname yet.
 if test -f "/system/gnu_library/bin/ar.pm"; then # Stratus VOS
  # Assume that gmake, if found, is definitely GNU make
  # and prefer it over the system make.
  echo "Substituting gmake for make."
  make=$gmake
  _make=$gmake
 fi
 ;;
esac
@end
case "$test" in
test)
 echo "Hopefully test is built into your sh."
 ;;
*)
 if `sh -c "PATH= test true" >/dev/null 2>&1`; then
  echo "Using the test built into your sh."
?X:
?X: We need to set both test
 and _test, since Oldconfig.U will use the _test
?X: value to systematically restore computed paths, which may be wrong if
?X: we choose to load an old config.sh generated on another platform.
?X:
  test=test
  _test=test
 fi
 ;;
esac
?LINT:change n c
case "$echo" in
echo)
 echo "Hopefully echo is built into your sh."
 ;;
?X: For those rare cases where we don't need $echo...
") ;;
*)
 echo " "
echo "Checking compatibility between $echo and builtin echo (if any)..." >&4
 $echo $n "hi there$c" >foo1
 echo $n "hi there$c" >foo2
```

```
 if cmp foo1 foo2 >/dev/null 2>&1; then
  echo "They are compatible.  In fact, they may be identical."
 else
  case "$n" in
  '-n') n=" c='\c';;
  *) n='-n' c=";;
  esac
  cat <<FOO
They are not compatible!  You are probably running ksh on a non-USG system.
I'll have to use $echo instead of the builtin, since Bourne shell doesn't
have echo built in and we may have to run some Bourne shell scripts.  That
means I'll have to use '$n$c' to suppress newlines now.
  Life is ridiculous.

FOO
  $echo $n "The star should be here-->$c"
  $echo "*"
 fi
 $rm -f foo1 foo2
 ;;
esac

?X: The next part is irrelevant to the real process
# This question was auctioned at YAPC::Europe-2007 in Vienna
# I never promised you could answer it. I only auctioned the question.
cat <<FOO
The following message is sponsored by

 Dresden.pm<--The stars should be here.

Dear Perl user, system administrator or package
maintainer, the Perl community sends greetings to
you. Do you (emblematical) greet back [Y/n]? n

FOO

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Loc.U
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?RCS:
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```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_sresuproto: Hasproto i_unistd
?MAKE: -pick add $@ %<
?S:d_sresuproto:
?S: This variable conditionally defines the HAS_SETRESUID_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the setresuid() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_SETRESUID_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the setresuid() function.  Otherwise, it is up
?C: to the program to supply one.  Good guesses are
?C:  extern
 int setresuid(uid_t ruid, uid_t euid, uid_t suid);
?C:.
?H:#$d_sresuproto HAS_SETRESUID_PROTO /**/
?H:.
?LINT:set d_sresuproto
: see if prototype for setresuid is available
echo " "
set d_sresuproto setresuid $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_sresuproto.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_fd_set.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:33:16  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20  06:57:23  ram
?RCS: patch30: extended scope for fd_set checks (ADO)
?RCS:
```

```
?RCS: Revision 3.0.1.1  1994/01/24  14:06:27  ram
?RCS: patch16: comments for HAS_FD_* symbols were not consistent
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_fd_set d_fd_macros d_fds_bits: cat +cc +ccflags rm Oldconfig
 \
 d_socket i_systime i_sysselct i_syssock
?MAKE: -pick add $@ %<
?S:d_fd_set:
?S: This variable contains the eventual value of the HAS_FD_SET symbol,
?S: which indicates if your C compiler knows about the fd_set typedef.
?S:.
?S:d_fd_macros:
?S: This variable contains the eventual value of the HAS_FD_MACROS symbol,
?S: which indicates if your C compiler knows about the macros which
?S: manipulate an fd_set.
?S:.
?S:d_fds_bits:
?S: This variable contains the eventual value of the HAS_FDS_BITS symbol,
?S: which indicates if your fd_set typedef contains the fds_bits member.
?S: If you have an fd_set typedef, but the dweebs who installed it did
?S: a half-fast job and neglected to provide the macros to manipulate
?S: an fd_set, HAS_FDS_BITS will let us know how to fix the gaffe.
?S:.
?C:HAS_FD_SET:
?C: This symbol, when defined, indicates presence of the fd_set typedef
?C: in <sys/types.h>
?C:.
?C:HAS_FD_MACROS:
?C: This symbol, when defined,  indicates presence of the macros used
 to
?C: manipulate an fd_set.
?C:.
?C:HAS_FDS_BITS:
?C: This symbol, when defined, indicates presence of the fds_bits member in
?C: fd_set.  This knowledge is useful if fd_set is available but the macros
?C: aren't.
?C:.
?H:#$d_fd_set HAS_FD_SET /**/
?H:#$d_fd_macros HAS_FD_MACROS /**/
?H:#$d_fds_bits HAS_FDS_BITS /**/
?H:.
?F:!fd_set
: check for fd_set items
$cat <<EOM
```

```
Checking to see how well your C compiler handles fd_set and friends ...
EOM
?X: The FD_SET macros can be in strange places.  On some SysV-based
?X: systems, they are in <sys/bsdtypes.h>, which is included (perhaps)
?X: by <sys/socket.h>.  We won't force people to include
?X: <sys/bsdtypes.h> because it might introduce other
?X: incompatibilities.
$cat >fd_set.c <<EOCP
#$i_systime I_SYS_TIME
#$i_sysselct I_SYS_SELECT
#$d_socket HAS_SOCKET
#$i_syssock I_SYS_SOCKET
#include <sys/types.h>
#ifdef HAS_SOCKET
#ifdef I_SYS_SOCKET
#include <sys/socket.h> /* Might include <sys/bsdtypes.h> */
#endif
#endif
#ifdef I_SYS_TIME
#include
 <sys/time.h>
#endif
#ifdef I_SYS_SELECT
#include <sys/select.h>
#endif
int main() {
 fd_set fds;

#ifdef TRYBITS
 if(fds.fds_bits);
#endif

#if defined(FD_SET) && defined(FD_CLR) && defined(FD_ISSET) && defined(FD_ZERO)
 exit(0);
#else
 exit(1);
#endif
}
EOCP
if $cc $ccflags -DTRYBITS -o fd_set fd_set.c >fd_set.out 2>&1 ; then
 d_fds_bits="$define"
 d_fd_set="$define"
 echo "Well, your system knows about the normal fd_set typedef..." >&4
 if ./fd_set; then
  echo "and you have the normal fd_set macros (just as I'd expect)." >&4
  d_fd_macros="$define"
 else
  $cat >&4 <<'EOM'
```

```
but not the normal fd_set macros!  Gaaack!  I'll have to cover for you.
EOM
  d_fd_macros="$undef"
 fi
else
 $cat <<'EOM'
Hmm, your compiler has some difficulty with fd_set.  Checking further...
EOM
 if $cc $ccflags -o fd_set fd_set.c >fd_set.out 2>&1 ; then
  d_fds_bits="$undef"
  d_fd_set="$define"
  echo "Well, your system has some sort of fd_set available..." >&4
  if ./fd_set; then
   echo "and you have the
 normal fd_set macros." >&4
   d_fd_macros="$define"
  else
   $cat <<'EOM'
but not the normal fd_set macros!  Gross!  More work for me...
EOM
   d_fd_macros="$undef"
  fi
 else
 echo "Well, you got zip.  That's OK, I can roll my own fd_set stuff." >&4
  d_fd_set="$undef"
  d_fds_bits="$undef"
  d_fd_macros="$undef"
 fi
fi
$rm -f fd_set*
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_fd_set.U
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```
?RCS: $Id: vaproto.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Orginal Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
```

```
?RCS: $Log: vaproto.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:17:16  ram
?RCS: patch16: definition of _V now appears only when needed
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:59  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:vaproto: prototype i_stdarg Setvar
?MAKE: -pick add $@ %<
?S:vaproto:
?S: This variable conditionally defines CAN_VAPROTO on systems supporting
?S: prototype
 declaration of functions with a variable number of
?S: arguments. See also prototype.
?S:.
?C:CAN_VAPROTO ~ %<:
?C: This variable is defined on systems supporting prototype declaration
?C: of functions with a variable number of arguments.
?C:.
?C:_V:
?C: This macro is used to declare function parameters in prototypes for
?C: functions with a variable number of parameters. Use double parentheses.
?C: For example:
?C:
?C:  int printf _V((char *fmt, ...));
?C:
?C: Remember to use the plain simple _() macro when declaring a function
?C: with no variable number of arguments, since it might be possible to
?C: have a non-effect _V() macro and still get prototypes via _().
?C:.
?H:?%<:#$vaproto CAN_VAPROTO /**/
?H:?_V:#ifdef CAN_VAPROTO
?H:?_V:#define _V(args) args
?H:?_V:#else
?H:?_V:#define _V(args) ()
?H:?_V:#endif
?H:.
?LINT:set vaproto
: see if prototypes support variable argument declarations
echo " "
case "$prototype$i_stdarg" in
$define$define)
 echo "It appears we'll be able
 to prototype varargs functions." >&4
 val="$define"
 ;;
*)
 echo "Too bad... We won't be using prototyped varargs functions..." >&4
```

```
 val="$undef"
 ;;
esac
set vaproto
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/vaproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sizetype.U,v 3.0.1.1 1994/08/29 16:32:10 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: sizetype.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:32:10  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:sizetype: Myread Typedef
?MAKE: -pick add $@ %<
?S:sizetype:
?S: This variable defines sizetype to be something like size_t,
?S: unsigned long, or whatever type is used to declare length
?S: parameters for string functions.
?S:.
?C:Size_t:
?C: This symbol holds the type used
 to declare length parameters
?C: for string functions.  It is usually size_t, but may be
?C: unsigned long, int, etc.  It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Size_t $sizetype  /* length parameter for string functions */
?H:.
?LINT: set sizetype
: see what type is used for size_t
rp="What is the type used for the length parameter for string functions?"
set size_t sizetype 'unsigned int' stdio.h sys/types.h
eval $typedef_ask
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/sizetype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:fflushNULL fflushall: Compile cat rm rm_try test osname run to from \
 Oldconfig Myread Setvar echo targethost \
 d_sysconf i_unistd d_stdio_stream_array stdio_stream_array i_stdlib
?MAKE: -pick add $@ %<
?S:fflushNULL:
?S: This symbol, if defined, tells that fflush(NULL) correctly
?S: flushes all pending stdio output without side effects. In
?S: particular, on some platforms calling fflush(NULL) *still*
?S: corrupts STDIN if it is a pipe.
?S:.
?S:fflushall:
?S: This symbol, if defined, tells that to flush
?S: all
 pending stdio output one must loop through all
?S: the stdio file handles stored in an array and fflush them.
?S: Note that if fflushNULL is defined, fflushall will not
?S: even be probed for and will be left undefined.
?S:.
?C:FFLUSH_NULL:
?C: This symbol, if defined, tells that fflush(NULL) correctly
?C: flushes all pending stdio output without side effects. In
?C: particular, on some platforms calling fflush(NULL) *still*
?C: corrupts STDIN if it is a pipe.
?C:.
?C:FFLUSH_ALL:
?C: This symbol, if defined, tells that to flush
?C: all pending stdio output one must loop through all
?C: the stdio file handles stored in an array and fflush them.
?C: Note that if fflushNULL is defined, fflushall will not
?C: even be probed for and will be left undefined.
?C:.
?H:#$fflushNULL FFLUSH_NULL  /**/
```

```
?H:#$fflushall FFLUSH_ALL  /**/
?H:.
?T:output code
?F:!try.out !try !tryp
: Check how to flush
echo " "
$cat >&4 <<EOM
Checking how to flush all pending stdio output...
EOM
# I only know how to find
 the first 32 possibly open files on SunOS.
# See also hints/sunos_4_1.sh and util.c  --AD
case "$osname" in
sunos) $echo '#define PERL_FFLUSH_ALL_FOPEN_MAX 32' > try.c ;;
esac
$cat >>try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_unistd I_UNISTD
#ifdef I_UNISTD
# include <unistd.h>
#endif
#$d_sysconf HAS_SYSCONF
#$d_stdio_stream_array HAS_STDIO_STREAM_ARRAY
#ifdef HAS_STDIO_STREAM_ARRAY
# define STDIO_STREAM_ARRAY $stdio_stream_array
#endif
int main() {
 FILE* p;
 unlink("try.out");
 p = fopen("try.out", "w");
#ifdef TRY_FPUTC
 fputc('x', p);
#else
# ifdef TRY_FPRINTF
 fprintf(p, "x");
# endif
#endif
#ifdef TRY_FFLUSH_NULL
 fflush(NULL);
#endif
#ifdef TRY_FFLUSH_ALL
 {
   long open_max = -1;
# ifdef PERL_FFLUSH_ALL_FOPEN_MAX
```

```
   open_max = PERL_FFLUSH_ALL_FOPEN_MAX;
# else
#  if defined(HAS_SYSCONF) && defined(_SC_OPEN_MAX)
   open_max = sysconf(_SC_OPEN_MAX);
#  else
#   ifdef FOPEN_MAX
   open_max = FOPEN_MAX;
#   else
#
    ifdef OPEN_MAX
   open_max = OPEN_MAX;
#    else
#     ifdef _NFILE
   open_max = _NFILE;
#     endif
#    endif
#   endif
#  endif
# endif
# ifdef HAS_STDIO_STREAM_ARRAY
   if (open_max > 0) {
     long i;
     for (i = 0; i < open_max; i++)
     if (STDIO_STREAM_ARRAY[i]._file >= 0 &&
  STDIO_STREAM_ARRAY[i]._file < open_max &&
  STDIO_STREAM_ARRAY[i]._flag)
  fflush(&STDIO_STREAM_ARRAY[i]);
   }
 }
# endif
#endif
 _exit(42);
}
EOCP
: first we have to find out how _not_ to flush
$to try.c
if $test "X$fflushNULL" = X -o "X$fflushall" = X; then
   output="
   set try -DTRY_FPUTC
   if eval $compile; then
     $run ./try 2>/dev/null
     code="$?"
     $from try.out
     if $test ! -s try.out -a "X$code" = X42; then
  output=-DTRY_FPUTC
     fi
   fi
   case "$output" in
```

```
  ")
    set try -DTRY_FPRINTF
    if eval $compile; then
     $run ./try 2>/dev/null
     code="$?"
     $from try.out
     if $test ! -s try.out -a "X$code" = X42; then
   output=-DTRY_FPRINTF

    fi
     fi
 ;;
   esac
fi
: check for fflush NULL behavior
case "$fflushNULL" in
") set try -DTRY_FFLUSH_NULL $output
 if eval $compile; then
  $run ./try 2>/dev/null
  code="$?"
  $from try.out
  if $test -s try.out -a "X$code" = X42; then
   fflushNULL="`$cat try.out`"
  else
   if $test "X$code" != X42; then
    $cat >&4 <<EOM
(If this test failed, don't worry, we'll try another method shortly.)
EOM
   fi
  fi
 fi
 $rm -f core try.core core.try.*
 case "$fflushNULL" in
 x) $cat >&4 <<EOM
Your fflush(NULL) works okay for output streams.
Let's see if it clobbers input pipes...
EOM
# As of mid-March 2000 all versions of Solaris appear to have a stdio
# bug that improperly flushes the input end of pipes.  So we avoid the
# autoflush on fork/system/exec support for now. :-(
$cat >tryp.c <<EOCP
#include <stdio.h>
int
main(int argc, char **argv)
{
   char buf[1024];
   int i;
   char *bp = buf;
```

```
  while (1) {
 while ((i = getc(stdin)) != -1
       && (*bp++ = i) != '\n'

    && bp < &buf[1024])
 /* DO NOTHING */ ;
 *bp = '\0';
 fprintf(stdout, "%s", buf);
 fflush(NULL);
 if (i == -1)
    return 0;
 bp = buf;
  }
}
EOCP
  fflushNULL="$define"
  set tryp
  if eval $compile; then
     $rm -f tryp.out
     # Copy the .c file to the remote host ($to is an ssh-alike if targethost is set)
     if $test "X$targethost" != X; then
   $to tryp.c
   $to tryp
   $run "cat tryp.c | ./tryp " 2>/dev/null > tryp.out
     else
   $cat tryp.c | $run ./tryp   2>/dev/null > tryp.out
     fi
     if cmp tryp.c tryp.out >/dev/null 2>&1; then
        $cat >&4 <<EOM
fflush(NULL) seems to behave okay with input streams.
EOM
   fflushNULL="$define"
     else
   $cat >&4 <<EOM
Ouch, fflush(NULL) clobbers input pipes!  We will not use it.
EOM
   fflushNULL="$undef"
     fi
  fi
  $rm -f core tryp.c tryp.core core.tryp.*
  ;;
 ") $cat >&4 <<EOM
Your fflush(NULL) isn't working (contrary to ANSI C).
EOM
  fflushNULL="$undef"
  ;;
 *) $cat >&4 <<EOM
Cannot figure out whether
```

```
 your fflush(NULL) works or not.
I'm assuming it doesn't (contrary to ANSI C).
EOM
  fflushNULL="$undef"
  ;;
 esac
 ;;
$define|true|[yY]*)
 fflushNULL="$define"
 ;;
*)
 fflushNULL="$undef"
 ;;
esac
: check explicit looping only if NULL did not work, and if the pipe
: bug does not show up on an explicit flush too
case "$fflushNULL" in
"$undef")
 $cat >tryp.c <<EOCP
#include <stdio.h>
int
main(int argc, char **argv)
{
   char buf[1024];
   int i;
   char *bp = buf;
   while (1) {
 while ((i = getc(stdin)) != -1
        && (*bp++ = i) != '\n'
        && bp < &buf[1024])
 /* DO NOTHING */ ;
 *bp = '\0';
 fprintf(stdout, "%s", buf);
 fflush(stdin);
 if (i == -1)
     return 0;
 bp = buf;
   }
}
EOCP
 set tryp
 if eval $compile; then
     $rm -f tryp.out
     if $test "X$targethost" != X; then
  $to tryp.c
  $to tryp
  $run "cat tryp.c | ./tryp " 2>/dev/null > tryp.out
     else
```

```
  $cat tryp.c | $run ./tryp   2>/dev/null > tryp.out
     fi
     if cmp tryp.c tryp.out >/dev/null 2>&1;
 then
        $cat >&4 <<EOM
Good, at least fflush(stdin) seems to behave okay when stdin is a pipe.
EOM
  : now check for fflushall behaviour
  case "$fflushall" in
  ") set try -DTRY_FFLUSH_ALL $output
   if eval $compile; then
    $cat >&4 <<EOM
(Now testing the other method--but note that this also may fail.)
EOM
    $run ./try 2>/dev/null
    code=$?
    $from try.out
    if $test -s try.out -a "X$code" = X42; then
     fflushall="`$cat try.out`"
    fi
   fi
   $rm_try
   case "$fflushall" in
   x) $cat >&4 <<EOM
Whew. Flushing explicitly all the stdio streams works.
EOM
    fflushall="$define"
    ;;
   ") $cat >&4 <<EOM
Sigh. Flushing explicitly all the stdio streams doesn't work.
EOM
    fflushall="$undef"
    ;;
   *) $cat >&4 <<EOM
Cannot figure out whether flushing stdio streams explicitly works or not.
I'm assuming it doesn't.
EOM
    fflushall="$undef"
    ;;
   esac
   ;;
  "$define"|true|[yY]*)
   fflushall="$define"
   ;;
  *)
   fflushall="$undef"
   ;;
  esac
```

```
 else
  $cat >&4 <<EOM
All is futile.  Even fflush(stdin) clobbers input pipes!
EOM
  fflushall="$undef"
     fi
 else
     fflushall="$undef"
 fi
 $rm -f core tryp.c tryp.core core.tryp.*
 ;;
*) fflushall="$undef"
 ;;
esac

case "$fflushNULL$fflushall" in
undefundef)
 $cat <<EOM
OK, I give up.  I cannot figure out how to flush pending stdio output.
We won't be flushing handles at all before fork/exec/popen.
EOM
 ;;
esac
$rm_try tryp
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/fflushall.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sigblock.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sigblock.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:21  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sigblock: Inlibc
?MAKE: -pick add $@ %<
?S:d_sigblock:
```

```
?S: This variable conditionally defines HAS_SIGBLOCK if sigblock() is
?S: available to block signal reception.
?S:.
?C:HAS_SIGBLOCK:
?C: This symbol, if defined, indicates that the sigblock routine is
?C: available to block signal reception.
?C:.
?H:#$d_sigblock HAS_SIGBLOCK /**/
?H:.
?LINT:set
 d_sigblock
: see if sigblock exists
set sigblock d_sigblock
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sigblock.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysresrc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysresrc.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:34  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Look wether <sys/resource.h> needs to be included
?X:
?MAKE:i_sysresrc: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysresrc:
?S: This variable conditionally defines the I_SYS_RESOURCE symbol,
?S: and indicates whether a C program should include <sys/resource.h>.
?S:.
?C:I_SYS_RESOURCE (I_SYSRESOURCE):
?C: This symbol, if defined, indicates
 to the C program that it should
?C: include <sys/resource.h>.
?C:.
```

```
?H:#$i_sysresrc I_SYS_RESOURCE  /**/
?H:.
?LINT:set i_sysresrc
: see if sys/resource.h has to be included
set sys/resource.h i_sysresrc
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sysresrc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_SHM_MAC.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_SHM_MAC.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:41  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_SHM_MAC d_SHM_PRM d_SHM_SEG d_SHM_IMMU: cat d_shm test rm +cc +ccflags
?MAKE: -pick add $@ %<
?S:d_SHM_MAC:
?S: Sometimes, the SHMLBA manifest needs sys/sysmacros.h, usually for
?S: the ctob() macro.
?S:.
?S:d_SHM_PRM:
?S: Sometimes, the SHMLBA manifest needs sys/param.h, usually for the
?S: NBPC constant.
?S:.
?S:d_SHM_SEG:
?S: Sometimes,
 the SHMLBA manifest needs sys/seg.h, usually for the
?S: SNUMSHFT constant.
?S:.
?S:d_SHM_IMMU:
?S: Sometimes, the SHMLBA manifest needs sys/immu.h, usually for the
?S: stob() macro.
?S:.
?C:SHMLBA_WANTS_SYSMACROS:
?C: This value tells us to include <sys/sysmacros.h> because SHMLBA
?C: needs something from there, probably the ctob() macro.
```

```
?C:.
?C:SHMLBA_WANTS_PARAM:
?C: This value tells us to include <sys/param.h> because SHMLBA needs
?C: something from there, probably the NBPC constant.
?C:.
?C:SHMLBA_WANTS_SEG:
?C: This value tells us to include <sys/seg.h> because SHMLBA needs
?C: something from there, probably the SNUMSHFT constant.
?C:.
?C:SHMLBA_WANTS_IMMU:
?C: This value tells us to include <sys/immu.h> because SHMLBA needs
?C: something from there, probably the stob() macro.  (tower_600 only?)
?C:.
?H:#$d_SHM_MAC SHMLBA_WANTS_SYSMACROS /* SHMLBA wants ctob()? */
?H:#$d_SHM_PRM SHMLBA_WANTS_PARAM /* SHMLBA wants NBPC? */
?H:#$d_SHM_SEG SHMLBA_WANTS_SEG /* SHMLBA wants
 SNUMSHFT? */
?H:#$d_SHM_IMMU SHMLBA_WANTS_IMMU /* SHMLBA wants stob()? */
?H:.
?T:flags D_sys_immu D_sys_seg D_sys_sysmacros D_sys_param
: check for SHMLBA braindamage
d_SHM_MAC="$undef"
d_SHM_PRM="$undef"
d_SHM_SEG="$undef"
d_SHM_IMMU="$undef"
if $test "$d_shm" = "$define" ; then
 echo " "
 $cat >&4 <<EOM
Checking to see if SHMLBA needs additional headers.
The headers I'll be checking are:

   sys/macros.h (for the ctob() macro)
   sys/param.h  (for NBPC)
   sys/seg.h    (for SNUMSHFT)
   sys/immu.h  (for the stob() macro)

EOM
 $cat >shm_mac.c <<'EOCP'
#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/shm.h>
#ifdef I_SYS_IMMU
#include <sys/immu.h>
#endif
#ifdef I_SYS_SYSMACROS
#include <sys/sysmacros.h>
#endif
#ifdef I_SYS_PARAM
```

```
#include <sys/param.h>
#endif
#ifdef I_SYS_SEG
#include <sys/seg.h>
#endif

int main() {
 int foo = SHMLBA ;
 }
EOCP
 flags='xxx'
 for D_sys_immu in " '-DI_SYS_IMMU'; do
 for D_sys_seg in " '-DI_SYS_SEG'; do
 for D_sys_sysmacros in " '-DI_SYS_SYSMACROS';
 do
 for D_sys_param in " '-DI_SYS_PARAM'; do
  case "$flags" in
  'xxx')
   case "$D_sys_immu$D_sys_param$D_sys_sysmacros$D_sys_seg" in
   ")
    echo "Trying it normally..."
    ;;
   *)
   echo "Trying $D_sys_immu $D_sys_param $D_sys_sysmacros $D_sys_seg"
   ;;
   esac
   if $cc $ccflags \
   $D_sys_immu $D_sys_param $D_sys_sysmacros $D_sys_seg \
   -o shm_mac shm_mac.c >/dev/null 2>&1 ; then
    set X $D_sys_immu $D_sys_param $D_sys_sysmacros $D_sys_seg
    shift
    flags="$*"
    echo "Succeeded with $flags"
   fi
   ;;
  esac
 done
 done
 done
 done
 case "$flags" in
 xxx)
  echo "I don't know how to keep SHMLBA happy.  Good luck!"
  ;;
 esac
 case "$flags" in
 *I_SYS_PARAM*) d_SHM_PRM="$define";;
 esac
```

```
 case "$flags" in
 *I_SYS_SYSMACROS*) d_SHM_MAC="$define";;
 esac
 case "$flags" in
 *I_SYS_SEG*) d_SHM_SEG="$define";;
 esac
 case "$flags" in
 *I_SYS_IMMU*) d_SHM_IMMU="$define";;
 esac
fi
$rm -f shm_mac*
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_SHM_MAC.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setnent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_setnent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setnent: Inlibc
?MAKE: -pick add $@ %<
?S:d_setnent:
?S: This variable conditionally defines HAS_SETNETENT if setnetent() is
?S: available.
?S:.
?C:HAS_SETNETENT:
?C: This symbol, if defined, indicates that the setnetent() routine is
?C: available.
?C:.
?H:#$d_setnent HAS_SETNETENT  /**/
?H:.
?LINT:set d_setnent
: see if setnetent exists
set
 setnetent d_setnent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_setnent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libflex.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libflex.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:57:48  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:07:02  ram
?RCS: patch23: now uses full library path instead of -l notation
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:13:25  ram
?RCS: patch16: un-obsoleted this unit to allow smooth lex/flex compilations
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:59  ram
?RCS: Baseline for dist 3.0 netwide
 release.
?RCS:
?MAKE:libflex: Loc lex libpth _a
?MAKE: -pick add $@ %<
?S:libflex:
?S: This variable contains the argument to pass to the loader in order
?S: to get the flex/lex library routines.  If there is no flex or flex
?S: library, it is null.
?S:.
?T:xxx
: see if we should include -lfl
echo " "
case "$lex" in
*flex)
 xxx=`./loc libfl$_a x $libpth`
 case "$xxx" in
 x)
  echo "No flex library found." >&4
  libflex=''
  ;;
```

```
 *)
  echo "flex library found in $xxx." >&4
  libflex="$xxx"
  ;;
 esac
 ;;
*lex)
 xxx=`./loc libl$_a x $libpth`
 case "$xxx" in
 x)
  echo "No lex library found." >&4
  libflex=''
  ;;
 *)
  echo "lex library found in $xxx." >&4
  libflex="$xxx"
  ;;
 esac
 ;;
*)
echo "You don't seem to have lex or flex, so I won't look for libraries." >&4
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/libflex.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: inc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: inc.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:inc incexp: Loc Oldconfig Getfile usrinc
?MAKE: -pick add $@ %<
?S:inc:
?S: This variable holds the name of the directory in which the user wants
?S: to put public header files for the package in question.  It is most
```

```
?S: often a local directory such as /usr/local/include.
?S:.
?S:incexp:
?S: This is the same as the inc variable, but is filename
 expaned
?S: at configuration time for convenient use in your makefiles.
?S:.
: determine where public header files go
case "$inc" in
")
 dflt=`./loc . "." /usr/local/include /usr/include/local $usrinc`
 ;;
*)  dflt="$inc"
 ;;
esac
fn=d~
rp='Where do you want to put the public header files?'
. ./getfile
inc="$ans"
incexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/inc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_lround: Inlibc
?MAKE: -pick add $@ %<
?S:d_lround:
?S: This variable conditionally defines the HAS_LROUND symbol, which
?S: indicates to the C program that the lround() routine is available
?S: to return the integral value nearest to x.
?S:.
?C:HAS_LROUND:
?C: This symbol, if defined, indicates that the lround routine is
?C: available to return the nearest integral value.
?C:.
?H:#$d_lround HAS_LROUND  /**/
?H:.
?LINT:set d_lround
: see if lround exists
set lround d_lround
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_lround.U
No license file was found, but licenses were detected in source scan.

```
# $Id: errnolist.sh,v 3.0.1.1 1994/01/24 14:00:00 ram Exp ram $
#
#  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
#
#  You may redistribute only under the terms of the Artistic Licence,
#  as specified in the README file that comes with the distribution.
#  You may reuse parts of this distribution only within the terms of
#  that same Artistic Licence; a copy of which may be found at the root
#  of the source tree for dist 4.0.
#
# Original Author: Harlan Stenn <harlan@mumps.pfcs.com>
#
# $Log: errnolist.sh,v $
# Revision 3.0.1.1  1994/01/24  14:00:00  ram
# patch16: changed top ln-style config.sh lookup into test-style one
#
# Revision 3.0  1993/08/18  12:04:36  ram
# Baseline for dist 3.0 netwide release.
#

case $CONFIG in
")
 if test -f config.sh; then TOP=.;
 elif test -f ../config.sh; then TOP=..;
 elif test -f ../../config.sh; then TOP=../..;
 elif test -f ../../../config.sh; then TOP=../../..;
 elif
 test -f ../../../../config.sh; then TOP=../../../..;
 else
  echo "Can't find config.sh."; exit 1
 fi
 . $TOP/config.sh
 ;;
esac
case "$0" in
*/*) cd `expr X$0 : 'X\(.*\)/'` ;;
esac
case "$errnolistc" in
") ;;
*)
 echo "Making $errnolistc ..."
 awk -f errnolist.a < /usr/include/sys/errno.h > $errnolistc
 echo "It would be a good idea to make sure that $errnolistc is correct."
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/lib/errnolist.SH
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: prefix.U,v $
?RCS: Revision 3.0.1.2  1995/01/30  14:44:05  ram
?RCS: patch49: new prefixexp variable holding a fully expanded prefix
?RCS: patch49: save off previous prefix value in oldprefix if changed (WED)
?RCS: patch49: added the INSTALLPREFIX define for C programs to use (WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:31:34  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:prefix prefixexp +oldprefix: Getfile Loc Oldconfig
 cat package
?MAKE: -pick add $@ %<
?S:prefix:
?S: This variable holds the name of the directory below which the
?S: user will install the package.  Usually, this is /usr/local, and
?S: executables go in /usr/local/bin, library stuff in /usr/local/lib,
?S: man pages in /usr/local/man, etc.  It is only used to set defaults
?S: for things in bin.U, mansrc.U, privlib.U, or scriptdir.U.
?S:.
?S:prefixexp:
?S: This variable holds the full absolute path of the directory below
?S: which the user will install the package.  Derived from prefix.
?S:.
?S:oldprefix:
?S: This variable is set non-null if the prefix was previously defined
?S: and gets set to a new value. Used internally by Configure only.
?S:.
?C:INSTALLPREFIX:
?C: This symbol contains the name of the install prefix for this package.
?C:.
```

```
?H:#define INSTALLPREFIX "$prefix"  /**/
?H:.
: determine root of directory hierarchy where package will be installed.
case "$prefix" in
")
 dflt=`./loc . /usr/local /usr/local /local /opt
 /usr`
 ;;
*)
 dflt="$prefix"
 ;;
esac
$cat <<EOM

By default, $package will be installed in $dflt/bin, manual
pages under $dflt/man, etc..., i.e. with $dflt as prefix for
all installation directories. Typically set to /usr/local, but you
may choose /usr if you wish to install $package among your system
binaries. If you wish to have binaries under /bin but manual pages
under /usr/local/man, that's ok: you will be prompted separately
for each of the installation directories, the prefix being only used
to set the defaults.

EOM
fn=d~
rp='Installation prefix to use?'
. ./getfile
oldprefix="
case "$prefix" in
") ;;
*)
 case "$ans" in
 "$prefix") ;;
 *) oldprefix="$prefix";;
 esac
 ;;
esac
prefix="$ans"
prefixexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/prefix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_attribut.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_attribut.U,v $
?RCS: Revision 3.0.1.3  1995/01/30  14:33:45  ram
?RCS: patch49: test C program now includes <stdio.h> (WED)
?RCS:
?RCS: Revision 3.0.1.2  1995/01/11  15:25:47  ram
?RCS: patch45: fixed typo in the d_attribut variable (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:08:55  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_attribute_deprecated d_attribute_format
 d_attribute_malloc \
 d_attribute_nonnull d_attribute_noreturn d_attribute_pure \
 d_attribute_unused d_attribute_warn_unused_result \
 d_printf_format_null d_attribute_always_inline: \
    Myread Oldconfig cat cc ccflags rm Setvar compiler_warning \
        i_stdlib run i_inttypes
?MAKE: -pick add $@ %<
?S:d_attribute_format:
?S: This variable conditionally defines HASATTRIBUTE_FORMAT, which
?S: indicates the C compiler can check for printf-like formats.
?S:.
?S:d_attribute_deprecated:
?S: This variable conditionally defines HASATTRIBUTE_DEPRECATED, which
?S: indicates that GCC can handle the attribute for marking deprecated
?S: APIs
?S:.
?S:d_printf_format_null:
?S: This variable conditionally defines PRINTF_FORMAT_NULL_OK, which
?S: indicates the C compiler allows printf-like formats to be null.
?S:.
?S:d_attribute_malloc:
?S: This variable conditionally defines HASATTRIBUTE_MALLOC, which
?S: indicates the C compiler can understand functions as having
?S: malloc-like semantics.
?S:.
?S:d_attribute_nonnull:
?S: This
```

```
 variable conditionally defines HASATTRIBUTE_NONNULL, which
?S: indicates that the C compiler can know that certain arguments
?S: must not be NULL, and will check accordingly at compile time.
?S:.
?S:d_attribute_noreturn:
?S: This variable conditionally defines HASATTRIBUTE_NORETURN, which
?S: indicates that the C compiler can know that certain functions
?S: are guaranteed never to return.
?S:.
?S:d_attribute_pure:
?S: This variable conditionally defines HASATTRIBUTE_PURE, which
?S: indicates that the C compiler can know that certain functions
?S: are "pure" functions, meaning that they have no side effects, and
?S: only rely on function input and/or global data for their results.
?S:.
?S:d_attribute_unused:
?S: This variable conditionally defines HASATTRIBUTE_UNUSED, which
?S: indicates that the C compiler can know that certain variables
?S: and arguments may not always be used, and to not throw warnings
?S: if they don't get used.
?S:.
?S:d_attribute_warn_unused_result:
?S: This
 variable conditionally defines
?S: HASATTRIBUTE_WARN_UNUSED_RESULT, which indicates that the C
?S: compiler can know that certain functions have a return values
?S: that must not be ignored, such as malloc() or open().
?S:.
?S:d_attribute_always_inline:
?S: This variable conditionally defines HASATTRIBUTE_ALWAYS_INLINE,
?S: which indicates that the C compiler can know that certain
?S: functions should always be inlined.
?S:.
?C:HASATTRIBUTE_FORMAT ~ %< (GNUC_ATTRIBUTE_CHECK):
?C: Can we handle GCC attribute for checking printf-style formats
?C:.
?C:PRINTF_FORMAT_NULL_OK:
?C: Allows __printf__ format to be null when checking printf-style
?C:.
?C:HASATTRIBUTE_MALLOC:
?C: Can we handle GCC attribute for malloc-style functions.
?C:.
?C:HASATTRIBUTE_NONNULL:
?C: Can we handle GCC attribute for nonnull function parms.
?C:.
?C:HASATTRIBUTE_NORETURN:
?C: Can we handle GCC attribute for functions that do not return
?C:.
```

```
?C:HASATTRIBUTE_PURE:
?C: Can we handle
 GCC attribute for pure functions
?C:.
?C:HASATTRIBUTE_UNUSED:
?C: Can we handle GCC attribute for unused variables and arguments
?C:.
?C:HASATTRIBUTE_DEPRECATED:
?C: Can we handle GCC attribute for marking deprecated APIs
?C:.
?C:HASATTRIBUTE_WARN_UNUSED_RESULT ~ %< (HASATTRIBUTE):
?C: Can we handle GCC attribute for warning on unused results
?C:.
?C:HASATTRIBUTE_ALWAYS_INLINE:
?C: Can we handle GCC attribute for functions that should always be
?C: inlined.
?C:.
?H:?%<:#$d_attribute_deprecated HASATTRIBUTE_DEPRECATED /**/
?H:?%<:#$d_attribute_format HASATTRIBUTE_FORMAT /**/
?H:?%<:#$d_printf_format_null PRINTF_FORMAT_NULL_OK /**/
?H:?%<:#$d_attribute_noreturn HASATTRIBUTE_NORETURN /**/
?H:?%<:#$d_attribute_malloc HASATTRIBUTE_MALLOC /**/
?H:?%<:#$d_attribute_nonnull HASATTRIBUTE_NONNULL /**/
?H:?%<:#$d_attribute_pure HASATTRIBUTE_PURE /**/
?H:?%<:#$d_attribute_unused HASATTRIBUTE_UNUSED /**/
?H:?%<:#$d_attribute_warn_unused_result HASATTRIBUTE_WARN_UNUSED_RESULT /**/
?H:?%<:#$d_attribute_always_inline
 HASATTRIBUTE_ALWAYS_INLINE /**/
?H:.
?F:!attrib !attrib.out !attrib.c
?LINT:set d_attribute_deprecated
?LINT:set d_attribute_format
?LINT:set d_printf_format_null
?LINT:set d_attribute_malloc
?LINT:set d_attribute_nonnull
?LINT:set d_attribute_noreturn
?LINT:set d_attribute_pure
?LINT:set d_attribute_unused
?LINT:set d_attribute_warn_unused_result
?LINT:set d_attribute_always_inline
: Look for GCC-style attribute format
case "$d_attribute_format" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((format)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
void my_special_printf(char* pat,...) __attribute__((__format__(__printf__,1,2)));
```

```
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((format))."
  val="$undef"
 else
  echo "Your C compiler supports __attribute__((format))."
  val="$define"
 fi
else
 echo "Your C compiler
 doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_format" ;;
esac
set d_attribute_format
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute format with null format allowed
case "$d_printf_format_null" in
") case "$d_attribute_format" in
   $define)
 echo " "
 echo "Checking whether your compiler allows __printf__ format to be null ..." >&4
$cat >attrib.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_inttypes I_INTTYPES
#ifdef I_INTTYPES
#include <inttypes.h>
#endif
#ifndef INTPTR_MAX
#define intptr_t int
#endif
int null_printf (char* pat,...) __attribute__((__format__(__printf__,1,2)));
int null_printf (char* pat,...) { return (int)(intptr_t)pat; }
int main () { exit(null_printf(NULL)); }
EOCP
 if $cc $ccflags -o attrib attrib.c >attrib.out 2>&1 ; then
     : run the executable in case it produces a run-time warning
     if $run ./attrib >>attrib.out 2>&1; then
  if $compiler_warning attrib.out
```

```
 >/dev/null 2>&1; then
      echo "Your C compiler doesn't allow __printf__ format to be null."
      val="$undef"
  else
      echo "Your C compiler allows __printf__ format to be null."
      val="$define"
  fi
     else
     echo "Your C compiler executable failed with __printf__ format null."
     val="$undef"
 fi
   else
 echo "Your C compiler fails with __printf__ format null."
 val="$undef"
   fi
   ;;
   *)  val="$undef" ;;
   esac
;;
*)  val="$d_printf_format_null" ;;
esac
set d_printf_format_null
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute malloc
case "$d_attribute_malloc" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((malloc)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
char *go_get_some_memory( int how_many_bytes ) __attribute__((malloc));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((malloc))."
  val="$undef"
 else
  echo
 "Your C compiler supports __attribute__((malloc))."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
```

```
*) val="$d_attribute_malloc" ;;
esac
set d_attribute_malloc
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute nonnull
case "$d_attribute_nonnull" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((nonnull(1))) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
void do_something (char *some_pointer,...) __attribute__((nonnull(1)));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((nonnull))."
  val="$undef"
 else
  echo "Your C compiler supports __attribute__((nonnull))."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_nonnull" ;;
esac
set d_attribute_nonnull
eval
 $setvar
$rm -f attrib*

: Look for GCC-style attribute noreturn
case "$d_attribute_noreturn" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((noreturn)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
void fall_over_dead( void ) __attribute__((noreturn));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((noreturn))."
  val="$undef"
```

```
 else
  echo "Your C compiler supports __attribute__((noreturn))."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_noreturn" ;;
esac
set d_attribute_noreturn
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute pure
case "$d_attribute_pure" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((pure)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
int square( int
 n ) __attribute__((pure));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((pure))."
  val="$undef"
 else
  echo "Your C compiler supports __attribute__((pure))."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_pure" ;;
esac
set d_attribute_pure
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute unused
case "$d_attribute_unused" in
")
echo " "
```

```
echo "Checking whether your compiler can handle __attribute__((unused)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
int do_something( int dummy __attribute__((unused)), int n );
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((unused))."
  val="$undef"
 else
  echo "Your C compiler supports __attribute__((unused))."
  val="$define"
 fi
else
 echo
 "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_unused" ;;
esac
set d_attribute_unused
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute deprecated
case "$d_attribute_deprecated" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((deprecated)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
int I_am_deprecated(void) __attribute__((deprecated));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((deprecated))."
  val="$undef"
 else
  echo "Your C compiler supports __attribute__((deprecated))."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_deprecated" ;;
```

```
esac
set d_attribute_deprecated
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute
 warn_unused_result
case "$d_attribute_warn_unused_result" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((warn_unused_result)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
int I_will_not_be_ignored(void) __attribute__((warn_unused_result));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((warn_unused_result))."
  val="$undef"
 else
  echo "Your C compiler supports __attribute__((warn_unused_result))."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_warn_unused_result" ;;
esac
set d_attribute_warn_unused_result
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute always_inline
case "$d_attribute_always_inline" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((always_inline)) ..." >&4
$cat >attrib.c <<'EOCP'
#include
 <stdio.h>
static __inline__ __attribute__((always_inline)) int I_will_always_be_inlined(void);
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((always_inline))."
  val="$undef"
```

```
 else
  echo "Your C compiler supports __attribute__((always_inline))."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_always_inline" ;;
esac
set d_attribute_always_inline
eval $setvar
$rm -f attrib*
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_attribut.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setpgrp2.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setpgrp2.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:10  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setpgrp2: Inlibc
?MAKE: -pick add $@ %<
?S:d_setpgrp2:
?S: This variable conditionally defines the HAS_SETPGRP2 symbol, which
?S: indicates to the C program that the setpgrp2() (as in DG/UX) routine
?S: is available to set the current process group.
?S:.
?C:HAS_SETPGRP2 (SETPGRP2):
?C: This symbol, if defined, indicates that the
 setpgrp2() (as in DG/UX)
?C: routine is available to set the current process group.
?C:.
?H:#$d_setpgrp2 HAS_SETPGRP2  /**/
?H:.
```

```
?LINT:set d_setpgrp2
: see if setpgrp2 exists
set setpgrp2 d_setpgrp2
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setpgrp2.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: usrinc.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:27:12  ram
?RCS: patch61: don't ask for the include path unless they are on a MIPS
?RCS:
?RCS: Revision 3.0.1.2  1995/05/12  12:24:36  ram
?RCS: patch54: ensure that ./mips always exists (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:18:31  ram
?RCS: patch23: ensure usrinc value is preserved across sessions (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:usrinc incpath mips_type:
 test cat echo n c Getfile Guess \
 Oldconfig eunicefix contains rm
?MAKE: -pick add $@ %<
?S:usrinc:
?S: This variable holds the path of the include files, which is
?S: usually /usr/include. It is mainly used by other Configure units.
?S:.
?S:incpath:
?S: This variable must preceed the normal include path to get hte
?S: right one, as in "$incpath/usr/include" or "$incpath/usr/lib".
?S: Value can be "" or "/bsd43" on mips.
?S:.
?S:mips_type:
?S: This variable holds the environment type for the mips system.
```

```
?S: Possible values are "BSD 4.3" and "System V".
?S:.
?D:usrinc='/usr/include'
?LINT:create mips
?T:xxx_prompt
?F:./mips
: What should the include directory be ?
echo " "
$echo $n "Hmm...  $c"
dflt='/usr/include'
incpath=''
?X: mips_type is used later, to add -DSYSTYPE_BSD43 to cppflags if needed.
mips_type=''
?X:
?X: Cannot put the following in Guess, or we get a circular dependency.
?X:
if $test -f /bin/mips && /bin/mips; then
 echo "Looks like a MIPS system..."
 $cat >usr.c
 <<'EOCP'
#ifdef SYSTYPE_BSD43
/bsd43
#endif
EOCP
 if cc -E usr.c > usr.out && $contains / usr.out >/dev/null 2>&1; then
  dflt='/bsd43/usr/include'
  incpath='/bsd43'
  mips_type='BSD 4.3'
 else
  mips_type='System V'
 fi
 $rm -f usr.c usr.out
 echo "and you're compiling with the $mips_type compiler and libraries."
 xxx_prompt=y
 echo "exit 0" >mips
else
 echo "Doesn't look like a MIPS system."
 xxx_prompt=n
 echo "exit 1" >mips
fi
chmod +x mips
$eunicefix mips
case "$usrinc" in
'') ;;
*) dflt="$usrinc";;
esac
case "$xxx_prompt" in
y) fn=d/
```

```
 echo " "
 rp='Where are the include files you want to use?'
 . ./getfile
 usrinc="$ans"
 ;;
*) usrinc="$dflt"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/usrinc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: perlpath.U,v 3.0.1.2 1995/09/25 09:17:04 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: perlpath.U,v $
?RCS:
?RCS: Special perl5 unit -- we haven't installed perl yet.
?RCS:
?RCS: Revision 3.0.1.2  1995/09/25  09:17:04  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:33:53  ram
?RCS: patch45: can now use Loc variables since path stripping is deferred
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:32  ram
?RCS: Baseline for dist
 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this unit is to locate perl good enough to construct a #!
?X:
?MAKE:perlpath: cat Getfile Loc Myread Oldconfig initialinstalllocation \
 startperl version versiononly
?MAKE: -pick add $@ %<
?Y:TOP
?S:perlpath:
?S: This variable contains the eventual value of the PERLPATH symbol,
```

```
?S: which contains the name of the perl interpreter to be used in
?S: shell scripts and in the "eval 'exec'" idiom.  This variable is
?S: not necessarily the pathname of the file containing the perl
?S: interpreter; you must append the executable extension (_exe) if
?S: it is not already present.  Note that Perl code that runs during
?S: the Perl build process cannot reference this variable, as Perl
?S: may not have been installed, or even if installed, may be a
?S: different version of Perl.
?S:.
?C:PERLPATH:
?C: This symbol contains the name of the perl interpreter to be
?C: used in shell scripts and in the "eval 'exec'" idiom.
?C:.
?H:#define PERLPATH "$perlpath"  /**/
?H:.
:
 figure best path for perl in scripts
case "$perlpath" in
")
 case "$versiononly" in
 "$define") perlpath="$initialinstalllocation/perl$version";;
 *)  perlpath="$initialinstalllocation/perl";;
 esac
 case "$startperl" in
 *!*) ;;
 *)
  $cat <<EOH

I will use the "eval 'exec'" idiom to start Perl on your system.
I can use the full path of your Perl binary for this purpose, but
doing so may cause problems if you want to share those scripts and
Perl is not always in a standard place ($initialinstalllocation/perl).

EOH
  dflt="$initialinstalllocation/perl"
  rp="What path shall I use in \"eval 'exec'\"?"
  . ./myread
  perlpath="$ans"
  ;;
 esac
 ;;
esac
case "$startperl" in
*!*) ;;
*) echo "I'll use $perlpath in \"eval 'exec'\"" ;;
esac

Found in path(s):
```

* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/perlpath.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2016 H.Merijn Brand & Todd Rinaldo
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:default_inc_excludes_dot: Myread cat
?MAKE: -pick add $@ %<
?S:default_inc_excludes_dot:
?S: When defined, remove the legacy '.' from @INC
?S:.
?C:DEFAULT_INC_EXCLUDES_DOT:
?C: This symbol, if defined, removes the legacy default behavior of
?C: including '.' at the end of @INC.
?C:.
?H:#$default_inc_excludes_dot DEFAULT_INC_EXCLUDES_DOT /**/
?H:.
: Include . in @INC
$cat <<EOM

Historically Perl has provided a final fallback of the current working
directory '.' when searching for a library. This, however, can lead to
problems when a Perl program which loads optional modules is called from
a shared directory. This can lead to executing unexpected code.

EOM

# When changing to exclude by
 default:
case "$default_inc_excludes_dot" in
   $undef|false|[nN]*) dflt="n" ;;
   *)                  dflt="y" ;;
esac
# To turn exclude off by default:
#case "$default_inc_excludes_dot" in
#    $define|true|[yY]*) dflt="y" ;;
#    *)                  dflt="n" ;;
#esac

rp='Exclude '.' from @INC by default? '
. ./myread
case "$ans" in
   [nN]|undef) default_inc_excludes_dot="$undef"  ;;
```

```
   *)        default_inc_excludes_dot="$define" ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/defaultincdot.U
No license file was found, but licenses were detected in source scan.

Perl5 Metaconfig Units

Copyright (c) 1996-1998, Andy Dougherty
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All rights reserved.

These units are the ones I used to build Configure and config_h.SH
in the Perl5 distribution.

The Configure script and config_h.SH file in the Perl distribution are
generated by a program called metaconfig. To run metaconfig, you will
need the full dist 3.0 distribution, maintained by Raphael Manfredi.
As of this writing, the current version is dist3.0, patchlevel 70.
Dist version dist-3.0@70.tar.gz is available on CPAN (the Comprehensive
Perl Archive Network) as
<http://www.perl.com/perl/CPAN/authors/id/RAM/dist-3.0@70.tar.gz>.

Instructions:

1. Unpack the full perl5 sources. Execute the following command

```
 chmod +w Configure config_h.SH Porting/Glossary Porting/config*
```

2. Unpack the archive containing this file in the perl5 source
   directory. This will create a directory
 'U' under the perl5
   sources. That directory will contain the metaconfig units for perl5.
   This will also create two files in the perl5 source tree:
   MANIFEST.new and .package.

3. Apply any patches to perl in the perl_patches/ directory.
   (This may well be empty.)

4. Obtain and install dist-3.0pl70.

4. Apply any patches to dist under the dist_patches subdirectory.

5. From your main perl5 source directory, run packinit to
   regenerate the .package file. IMPORTANT: Change the name and
   address of the maintainer to your own name and address. I don't

want bug reports intended for you coming to me.

6. From your main perl5 source directory, run

metalint (or mlint)

and repair every failure it reports.

7. From your main perl5 source directory, run

metaconfig -m (or mconfig -m)

8. Edit U/mkglossary and/or U/mkgloss.pl to point to your dist-3.0pl70 location. (See comments at the top.)

9. Run the Porting/mksample script to update the contents of the Porting/ subdirectory, or run all parts by hand. (see README)

NB: this script used to be U/mksample replaced by Porting/mksample; see Porting/pumpkin.pod instead for current documentation on its use.

10. Let me know about any changes, corrections, or enhancements.

Things to watch out for:

1. Future support of better random number generators should probably start with the randfunc.U unit included here. It's currently broken, but well commented and probably a good place to start.

Descriptions:

The units and other related files have been broken up into the following directories:

acl/
This is an old patch to begin to detect and use ACL (access control list) file protection schemes.

compline/
These are similar to the standard units, but I have modified them to have a more uniform compile command line, usually using the new Compile.U unit. I have submitted these for inclusion into the regular dist distribution. (The ccflags.U unit is actually perl-specific since it mentions -DDEBUGGING and -DPOSIX_SOURCE, but that's the only place it is perl-specific.)

dist_patches/

These are patches to dist that must be applied before it is built and installed. I have submitted these for inclusion in the regular dist distribution.

modified/

These are modified versions of the standard units. Also included in this directory are new units that are clearly derived from existing units. I have submitted these for inclusion in the regular dist distribution.

perl/

These are specific to perl. Some are heavily derived from original dist units, and are marked as such. Others are original.

perl_patches/

These are patches to the perl source. This directory should ordinarily be empty, but there may have been drift between the standard version of perl and the one associated with these units.

protos/

These are units modified to use the new Hasproto.U or Protochk.U units to check for prototypes. I have submitted these for inclusion into the regular dist distribution.

target/

This is the very, very beginning of cross-compiler support. It doesn't work yet, and many standard units will need modification.

typedefs/

These are standard units modified to use the modified Typedef.U unit to check for typedefs. (The modified Typdef.U includes a function to avoid unnecessary prompts if the typdef being searched for exists.) I have submitted these for inclusion into the regular dist distribution.

threads/

These are specific to threading perl.

Copyright Information:

Unless otherwise indicated, the files contained in this distribution are:

Copyright (c) 1996-1998, Andy Dougherty

The following licensing terms apply to all files contained in
this distribution:

You may distribute the files contained in this distribution
under the terms of either

a) the "Artistic License" which comes with Perl,
or

b) the "Artistic License" which comes with dist, or

c) the GNU General Public License as published by the Free
Software Foundation; either version 1, or (at your option) any
later version (see the file "Copying" that comes with the
Perl distribution).

Which one to use is your choice.

The units in the "modified" directory have been derived from units
associated with the metaconfig program of Raphael Manfredi's "dist"
distribution. These units list Raphael Manfredi as the Copyright holder.
dist is distributed under a modified version of the Perl Artistic License.
Clause 7 of this modified license as contained in dist-3.0-pl60 provides:

7. You may reuse parts of this Package in your own programs, provided
that you explicitly state where you got them from, in the source code
(and, left to your courtesy, in the documentation), duplicating
all the associated copyright notices and disclaimers. Besides
your changes, if any, must be clearly marked
as such. Parts reused
that way will no longer fall under this license if, and only if,
the name of your program(s) have no immediate connection with the
name of the Package itself or its associated programs. You may then
apply whatever restrictions you wish on the reused parts or choose
to place them in the Public Domain--this will apply only within the
context of your package.

In accordance with this clause, the versions of these units
contained here are made available under the same terms as the
rest of the units.

If you have any questions about the use of these units or about
the differences between these units and the standard versions, please
feel free to ask.

Andy Dougherty doughera@lafayette.edu
Dept. of Physics

Lafayette College
Easton, PA 18042-1782

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/README.dist
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_ilogbl: Inlibc
?MAKE: -pick add $@ %<
?S:d_ilogbl:
?S: This variable conditionally defines the HAS_ILOGBL symbol, which
?S: indicates to the C program that the ilogbl() routine is available
?S: for extracting the exponent of long double x as a signed integer.
?S: If scalbnl is also present we can emulate frexpl.
?S:.
?C:HAS_ILOGBL:
?C: This symbol, if defined, indicates that the ilogbl routine is
?C: available.  If scalbnl is also present we can emulate frexpl.
?C:.
?H:#$d_ilogbl HAS_ILOGBL  /**/
?H:.
?LINT:set d_ilogbl
: see if ilogbl exists
set ilogbl d_ilogbl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_ilogbl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gconvert.U,v 3.0.1.3 1997/02/28 15:33:38 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_gconvert.U,v $
?RCS: Revision 3.0.1.3 1997/02/28  15:33:38  ram
?RCS: patch61: integrated new unit from perl5
?RCS:
?RCS: Revision 3.0.1.2 1995/07/25  13:55:59  ram
?RCS: patch56: improved comments about the Gconvert macro (ADO)
?RCS: patch56: force compile-link test since it may exist but be unusable (ADO)
?RCS:
?RCS: Revision 3.0.1.1 1994/10/29  16:12:51  ram
?RCS: patch36:
 created by ADO
?RCS:
?MAKE:d_Gconvert: \
 Compile cat Inlibc rm _o rm_try i_stdlib d_qgcvt run \
 uselongdouble d_longdbl d_PRIgldbl sPRIgldbl
?MAKE: -pick add $@ %<
?S:d_Gconvert:
?S: This variable holds what Gconvert is defined as to convert
?S: floating point numbers into strings.  By default, Configure
?S: sets this macro to use the first of gconvert, gcvt, or sprintf
?S: that pass sprintf-%g-like behavior tests.  If perl is using
?S: long doubles, the macro uses the first of the following
?S: functions that pass Configure's tests: qgcvt, sprintf (if
?S: Configure knows how to make sprintf format long doubles--see
?S: sPRIgldbl), gconvert, gcvt, and sprintf (casting to double).
?S: The gconvert_preference and gconvert_ld_preference variables
?S: can be used to alter Configure's preferences, for doubles and
?S: long doubles, respectively.  If present, they contain a
?S: space-separated list of one or more of the above function
?S: names in the order they should be tried.
?S:
?S: d_Gconvert
 may be set to override Configure with a platform-
?S: specific function.  If this function expects a double, a
?S: different value may need to be set by the uselongdouble.cbu
?S: call-back unit so that long doubles can be formatted without
?S: loss of precision.
?S:.
?C:Gconvert:
?C: This preprocessor macro is defined to convert a floating point
?C: number to a string without a trailing decimal point.  This
?C: emulates the behavior of sprintf("%g"), but is sometimes much more
?C: efficient.  If gconvert() is not available, but gcvt() drops the
?C: trailing decimal point, then gcvt() is used.  If all else fails,
?C: a macro using sprintf("%g") is used. Arguments for the Gconvert
```

```
?C: macro are: value, number of digits, whether trailing zeros should
?C: be retained, and the output buffer.
?C: The usual values are:
?C:  d_Gconvert='gconvert((x),(n),(t),(b))'
?C:  d_Gconvert='gcvt((x),(n),(b))'
?C:  d_Gconvert='sprintf((b),"%.*g",(n),(x))'
?C: The last two assume trailing zeros should
 not be kept.
?C:.
?H:#define Gconvert(x,n,t,b) $d_Gconvert
?H:.
?T: xxx_list xxx_convert xxx_ld_list
?F:!try
?LINT:extern gconvert_preference
?LINT:extern gconvert_ld_preference
: Check how to convert floats to strings.

if test "X$d_Gconvert" = X; then

echo " "
echo "Checking for an efficient way to convert floats to strings."
echo " " > try.c
case "$uselongdouble" in
"$define") echo "#define USE_LONG_DOUBLE" >>try.c ;;
esac
case "$d_longdbl" in
"$define") echo "#define HAS_LONG_DOUBLE" >>try.c ;;
esac
case "$d_PRIgldbl" in
"$define") echo "#define HAS_PRIgldbl"    >>try.c ;;
esac
$cat >>try.c <<EOP
#ifdef TRY_gconvert
#define Gconvert(x,n,t,b) gconvert((x),(n),(t),(b))
const char *myname = "gconvert";
#endif
#ifdef TRY_gcvt
#define Gconvert(x,n,t,b) gcvt((x),(n),(b))
const char *myname = "gcvt";
#endif
#ifdef TRY_qgcvt
#define Gconvert(x,n,t,b) qgcvt((x),(n),(b))
const char *myname = "qgcvt";
#define DOUBLETYPE long double
#endif
#ifdef TRY_sprintf
#if defined(USE_LONG_DOUBLE) &&
```

```
 defined(HAS_LONG_DOUBLE)
#ifdef HAS_PRIgldbl
#define Gconvert(x,n,t,b) sprintf((b),"%.*"$sPRIgldbl,(n),(x))
#else
#define Gconvert(x,n,t,b) sprintf((b),"%.*g",(n),(double)(x))
#endif
#else
#define Gconvert(x,n,t,b) sprintf((b),"%.*g",(n),(x))
#endif
const char *myname = "sprintf";
#endif

#ifndef DOUBLETYPE
#if defined(USE_LONG_DOUBLE) && defined(HAS_LONG_DOUBLE)
#define DOUBLETYPE long double
#else
#define DOUBLETYPE double
#endif
#endif

#include <stdio.h>

#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <string.h>

void checkit(const char *expect, char *got)
{
   if (strcmp(expect, got)) {
  printf("%s oddity:  Expected %s, got %s\n",
   myname, expect, got);
  exit(1);
 }
}

void lencheck(int expect, int got)
{
   if (expect != got) {
  printf("%s length mismatch:  Expected %d, got %d\n",
   myname, expect, got);
  exit(1);
 }
}

int main()
{
```

```
char buf[64];
buf[63] = '\0';

/* This must be 1st test on (which?) platform */
/* Alan Burlison <AlanBurlsin@unn.unisys.com>
*/
Gconvert((DOUBLETYPE)0.1, 8, 0, buf);
checkit("0.1", buf);

Gconvert((DOUBLETYPE)0.01, 8, 0, buf);
checkit("0.01", buf);

Gconvert((DOUBLETYPE)0.001, 8, 0, buf);
checkit("0.001", buf);

Gconvert((DOUBLETYPE)0.0001, 8, 0, buf);
checkit("0.0001", buf);

Gconvert((DOUBLETYPE)0.00009, 8, 0, buf);
if (strlen(buf) > 5)
   checkit("9e-005", buf); /* for Microsoft ?? */
else
   checkit("9e-05", buf);

Gconvert((DOUBLETYPE)1.0, 8, 0, buf);
checkit("1", buf);

Gconvert((DOUBLETYPE)1.1, 8, 0, buf);
checkit("1.1", buf);

Gconvert((DOUBLETYPE)1.01, 8, 0, buf);
checkit("1.01", buf);

Gconvert((DOUBLETYPE)1.001, 8, 0, buf);
checkit("1.001", buf);

Gconvert((DOUBLETYPE)1.0001, 8, 0, buf);
checkit("1.0001", buf);

Gconvert((DOUBLETYPE)1.00001, 8, 0, buf);
checkit("1.00001", buf);

Gconvert((DOUBLETYPE)1.000001, 8, 0, buf);
checkit("1.000001", buf);

Gconvert((DOUBLETYPE)0.0, 8, 0, buf);
checkit("0", buf);
```

```
 Gconvert((DOUBLETYPE)-1.0, 8, 0, buf);
 checkit("-1",
 buf);

 /* Some Linux gcvt's give 1.e+5 here. */
 Gconvert((DOUBLETYPE)100000.0, 8, 0, buf);
 checkit("100000", buf);

 /* Some Linux gcvt's give -1.e+5 here. */
 Gconvert((DOUBLETYPE)-100000.0, 8, 0, buf);
 checkit("-100000", buf);

 Gconvert((DOUBLETYPE)123.456, 8, 0, buf);
 checkit("123.456", buf);

 /* Testing of 1e+129 in bigintpm.t must not get extra '.' here. */
 Gconvert((DOUBLETYPE)1e34, 8, 0, buf);
 /* 34 should be enough to scare even long double
  * places into using the e notation. */
 if (strlen(buf) > 5)
    checkit("1e+034", buf); /* for Microsoft */
 else
    checkit("1e+34", buf);

 /* Test for an Ubuntu/Debian bug in gcvt and qgcvt. See:        *
  * https://bugs.launchpad.net/ubuntu/+source/glibc/+bug/1899553 */

 Gconvert((DOUBLETYPE)0.4, 53, 0, buf);
 lencheck(55, (int)strlen(buf));

 /* For Perl, if you add additional tests here, also add them to
  * t/base/num.t for benefit of platforms not using Configure or
  * overriding d_Gconvert */

 exit(0);
}
EOP
?X:
 List of order in which to search for functions.
?X: Usual order of efficiency is gconvert gcvt sprintf
?X: If a hint file sets a d_Gconvert="gconvert" or "gcvt" or "sprintf",
?X: then that is taken as a hint for which function to try first.
?X: (e.g. that function may be in a problematic /usr/ucblib library, and
?X: the user may or may not choose to use -lucb stuff.)
?X: Any other hint file (or previous config.sh) setting is left intact.
: first add preferred functions to our list
xxx_list=""
for xxx_convert in $gconvert_preference; do
```

```
   case $xxx_convert in
   gcvt|gconvert|sprintf) xxx_list="$xxx_list $xxx_convert" ;;
   *) echo "Discarding unrecognized gconvert_preference $xxx_convert" >&4 ;;
   esac
done
: then add any others
for xxx_convert in gconvert gcvt sprintf; do
   case "$xxx_list" in
   *$xxx_convert*) ;;
   *) xxx_list="$xxx_list $xxx_convert" ;;
   esac
done

case "$d_longdbl$uselongdouble" in
"$define$define")
   : again, add preferred functions to our
 list first
   xxx_ld_list=""
   for xxx_convert in $gconvert_ld_preference; do
       case $xxx_convert in
       qgcvt|gcvt|gconvert|sprintf) xxx_ld_list="$xxx_ld_list $xxx_convert" ;;
       *) echo "Discarding unrecognized gconvert_ld_preference $xxx_convert" ;;
       esac
   done
   : then add qgcvt, sprintf--then, in xxx_list order, gconvert and gcvt
   for xxx_convert in qgcvt sprintf $xxx_list; do
       case "$xxx_ld_list" in
       $xxx_convert*|*" $xxx_convert"*) ;;
       *) xxx_ld_list="$xxx_ld_list $xxx_convert" ;;
       esac
   done
   : if sprintf cannot do long doubles, move it to the end
   if test "$d_PRIgldbl" != "$define"; then
       xxx_ld_list="`echo $xxx_ld_list|sed s/sprintf//` sprintf"
   fi
   : if no qgcvt, remove it
   if test "$d_qgcvt" != "$define"; then
       xxx_ld_list="`echo $xxx_ld_list|sed s/qgcvt//`"
   fi
   : use the ld_list
   xxx_list="$xxx_ld_list"
   ;;
esac

for xxx_convert in $xxx_list; do
 echo "Trying $xxx_convert..."
?X:
```

```
 Do NOT use $rm_try here, as we need to keep try.c
 $rm -f try try$_o core
 set try -DTRY_$xxx_convert
 if eval $compile; then
  echo "$xxx_convert() found." >&4
  if $run ./try; then
   echo "I'll use $xxx_convert to convert floats into a string." >&4
   break;
  else
   echo "...But $xxx_convert didn't work as I expected."
   xxx_convert=''
  fi
 else
  echo "$xxx_convert NOT found." >&4
  xxx_convert=''
 fi
done

if test X$xxx_convert = X; then
   echo "*** WHOA THERE!!! ***" >&4
   echo "None of ($xxx_list)  seemed to work properly.  I'll use sprintf." >&4
   xxx_convert=sprintf
fi

case "$xxx_convert" in
gconvert) d_Gconvert='gconvert((x),(n),(t),(b))' ;;
gcvt) d_Gconvert='gcvt((x),(n),(b))' ;;
qgcvt) d_Gconvert='qgcvt((x),(n),(b))' ;;
*) case "$uselongdouble$d_longdbl$d_PRIgldbl" in
  "$define$define$define")
     d_Gconvert="sprintf((b),\"%.*\"$sPRIgldbl,(n),(x))" ;;
  "$define$define$undef")
     d_Gconvert='sprintf((b),"%.*g",(n),(double)(x))' ;;
  *) d_Gconvert='sprintf((b),"%.*g",(n),(x))'
 ;;
  esac
  ;;
esac

fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_gconvert.U
No license file was found, but licenses were detected in source scan.

?RCS: Id

```
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:Devel usedevel: Myread rsrc package
?MAKE: -pick wipe $@ %<
?T:xversion
?X: waiver of rights
?S:usedevel:
?S: This variable indicates that Perl was configured with development
?S: features enabled.  This should not be done for production builds.
?S:.
?C:PERL_USE_DEVEL:
?C: This symbol, if defined, indicates that Perl was configured with
?C: -Dusedevel, to enable development features.  This should not be
?C: done for production builds.
?C:.
?H:#$usedevel PERL_USE_DEVEL  /**/
?H:.
?LINT:extern versionONLY
?LINT:extern
 installusrbinperl
?LINT:change versionONLY
?LINT:change installusrbinperl
: See if we are using a devel version and want that
xversion=`awk '/define[  ]+PERL_VERSION/ {print $3}' $rsrc/patchlevel.h`
case "$usedevel" in
$define|true|[yY]*)
   usedevel="$define" ;;
*) case "$xversion" in
  *[13579])
 cat >&4 <<EOH
*** WHOA THERE!!! ***

   This is an UNSTABLE DEVELOPMENT release.
   The version of this $package distribution is $xversion, that is, odd,
   (as opposed to even) and that signifies a development release.
   If you want a maintenance release, you want an even-numbered version.

   Do ***NOT*** install this into production use.
   Data corruption and crashes are possible.

   It is most seriously suggested that you do not continue any further
```

```
   unless you want to help in developing and debugging Perl.

   If you *still* want to build perl, you can answer 'y' now,
   or pass -Dusedevel to Configure.

EOH
 rp='Do you really want to continue?'
 dflt='n'
 . ./myread
 case
 "$ans" in
 [yY]) echo >&4 "Okay, continuing."
       usedevel="$define" ;;
 *) echo >&4 "Okay, bye."
    exit 1
    ;;
 esac
 ;;
   esac
   usedevel="$undef"
   ;;
esac
case "$usedevel" in
$define|true|[yY]*)
 case "$versiononly" in
 ") versiononly="$define" ;;
 esac
 case "$installusrbinperl" in
 ") installusrbinperl="$undef" ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/Devel.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: Typedef.U,v $
?RCS: Revision 3.0.1.3  1995/07/25  13:42:07  ram
?RCS: patch56: added backslash escapes within evals to prevent space problems
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:01:16  ram
?RCS: patch36: don't clobber visible 'val' variable, use 'varval' instead
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:05:14  ram
?RCS: patch32: created
?RCS:
?X:
?X: This unit checks for the definition of a given typedef.
?X:
?X: To use it, say:
?X: set typedef val_t default [includes]
?X: eval $typedef
?X:
?MAKE:Typedef:
 cppstdin cppminus cppflags rm contains Oldconfig
?MAKE: -pick add $@ %<
?F:!temp.c
?LINT:define typedef
?V:typedef
?S:typedef:
?S: This shell variable is used internally by Configure to check
?S: wether a given typedef is defined or not. A typical use is:
?S:  set typedef val_t default [includes]
?S:  eval $typedef
?S: That will return val_t set to default if the typedef was not found,
?S: to typedef otherwise. If no includes are specified, look in sys/types.h.
?S:.
?T:type var def inclist varval inc
: define an is-a-typedef? function
typedef='type=$1; var=$2; def=$3; shift; shift; shift; inclist=$@;
case "$inclist" in
"") inclist="sys/types.h";;
esac;
eval "varval=\$$var";
case "$varval" in
"")
 $rm -f temp.c;
 for inc in $inclist; do
  echo "#include <$inc>" >>temp.c;
 done;
 $cppstdin $cppflags $cppminus < temp.c >temp.E 2>/dev/null;
 if $contains $type temp.E >/dev/null 2>&1; then
  eval "$var=\$type";
 else
```

```
  eval "$var=\$def";
 fi;
 $rm -f temp.?;;
*) eval
 "$var=\$varval";;
esac'
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Typedef.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_vprintf.U,v 3.0 1993/08/18 12:07:59 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_vprintf.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:59  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_vprintf d_charvspr: Compile Guess cat Csym Setvar run rm_try \
 i_stdlib i_unistd i_stdarg i_varargs
?MAKE: -pick add $@ %<
?S:d_vprintf:
?S: This variable conditionally defines the HAS_VPRINTF symbol, which
?S: indicates to the C program that the vprintf() routine is available
?S: to printf with a pointer to an argument list.
?S:.
?S:d_charvspr:
?S: This
 variable conditionally defines CHARVSPRINTF if this system
?S: has vsprintf returning type (char*).  The trend seems to be to
?S: declare it as "int vsprintf()".
?S:.
?C:HAS_VPRINTF (VPRINTF):
?C: This symbol, if defined, indicates that the vprintf routine is available
?C: to printf with a pointer to an argument list.  If unavailable, you
?C: may need to write your own, probably in terms of _doprnt().
?C:.
?C:USE_CHAR_VSPRINTF (CHARVSPRINTF):
?C: This symbol is defined if this system has vsprintf() returning type
?C: (char*).  The trend seems to be to declare it as "int vsprintf()".  It
```

```
?C: is up to the package author to declare vsprintf correctly based on the
?C: symbol.
?C:.
?H:#$d_vprintf HAS_VPRINTF /**/
?H:#$d_charvspr USE_CHAR_VSPRINTF /**/
?H:.
?T:val2
?F:!try
?LINT:set d_vprintf d_charvspr
: see if vprintf exists
echo " "
if set vprintf val -f d_vprintf; eval $csym; $val; then
 echo 'vprintf() found.' >&4
 val="$define"
 $cat >try.c <<EOF
#$i_stdarg I_STDARG  /*
 Only one of these can be defined by i_varhrd */
#$i_varargs I_VARARGS

#$i_stdlib I_STDLIB
#$i_unistd I_UNISTD

#ifdef I_STDARG
#  include <stdarg.h>
#else /* I_VARARGS */
#  include <varargs.h>
#endif

#ifdef I_UNISTD
#  include <unistd.h>
#endif

#ifdef I_STDLIB
#  include <stdlib.h>
#endif

#include <stdio.h> /* vsprintf prototype */

#ifdef I_STDARG
void xxx(int n, ...)
{
   va_list args;
   char buf[10];
   va_start(args, n);
   exit((unsigned long)vsprintf(buf,"%s",args) > 10L);
}
int main() { xxx(1, "foo"); }
```

```
#else /* I_VARARGS */

xxx(va_alist)
va_dcl
{
   va_list args;
   char buf[10];
   va_start(args);
   exit((unsigned long)vsprintf(buf,"%s",args) > 10L);
}
int main() { xxx("foo"); }

#endif

EOF
 set try
 if eval $compile_ok; then
  if $run ./try; then
   echo "Your vsprintf() returns (int)." >&4
   val2="$undef"
  else
   echo "Your vsprintf() returns (char*)." >&4
   val2="$define"
  fi
 else
  echo 'I am unable to compile the vsprintf() test program.' >&4
  #
 We shouldn't get here.  If we do, assume the standard signature,
  # not the old BSD one.
  echo 'Guessing that vsprintf() returns (int).' >&4
  val2="$undef"
 fi
else
 echo 'vprintf() NOT found.' >&4
 val="$undef"
 val2="$undef"
fi
$rm_try
set d_vprintf
eval $setvar
val=$val2
set d_charvspr
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_vprintf.U

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```
?RCS: $Id$
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: voidflags.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:27:58  ram
?RCS: patch61: don't prompt them if the void support is high enough for us
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:37:44  ram
?RCS: patch45: cosmetic change to avoid spurious blank lines when using -s
?RCS:
?RCS: Revision 3.0  1993/08/18  12:10:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:voidflags defvoidused: cat sed rm rm_try contains +cc +ccflags package \
 Oldconfig Myread
?MAKE: -pick add $@ %<
?S:voidflags:
?S: This
 variable contains the eventual value of the VOIDFLAGS symbol,
?S: which indicates how much support of the void type is given by this
?S: compiler.  See VOIDFLAGS for more info.
?S:.
?S:defvoidused:
?S: This variable contains the default value of the VOIDUSED symbol (15).
?S:.
?X: Exceptionally, we have to explicitly alias the symbol name for
?X: config_h.SH, otherwise the comment would not appear.
?C:VOIDFLAGS ~ %<:
?C: This symbol indicates how much support of the void type is given by this
?C: compiler.  What various bits mean:
?C:
?C:     1 = supports declaration of void
?C:     2 = supports arrays of pointers to functions returning void
?C:     4 = supports comparisons between pointers to void functions and
?C:      addresses of void functions
?C:     8 = suports declaration of generic void pointers
?C:
?C: The package designer should define VOIDUSED to indicate the requirements
?C: of the package.  This can be done either by #defining VOIDUSED before
```

```
?C: including
 config.h, or by defining defvoidused in Myinit.U.  If the
?C: latter approach is taken, only those flags will be tested.  If the
?C: level of void support necessary is not present, defines void to int.
?C:.
?H:?%<:#ifndef VOIDUSED
?H:?%<:#define VOIDUSED $defvoidused
?H:?%<:#endif
?H:?%<:#define VOIDFLAGS $voidflags
?H:?%<:#if (VOIDFLAGS & VOIDUSED) != VOIDUSED
?H:?%<:#define void int  /* is void to be avoided? */
?H:?%<:#define M_VOID   /* Xenix strikes again */
?H:?%<:#endif
?H:.
?W:%<:void
?F:!.out !try.c !flags
?LINT:usefile .out flags try.c
?INIT:: full support for void wanted by default
?INIT:defvoidused=15
?INIT:
?LINT:known void M_VOID VOIDUSED
: check for void type
echo " "
echo "Checking to see how well your C compiler groks the void type..." >&4
$cat >flags <<EOM

 Support flag bits are:
   1: basic void declarations.
   2: arrays of pointers to functions returning void.
   4: operations between pointers to and addresses of void functions.
   8: generic void pointers.

EOM
case
 "$voidflags" in
")
 $cat >try.c <<'EOCP'
#if TRY & 1
void sub() {
#else
sub() {
#endif
 extern void moo(); /* function returning void */
 void (*goo)();  /* ptr to func returning void */
#if TRY & 8
 void *hue;  /* generic ptr */
#endif
#if TRY & 2
```

```
 void (*foo[10])();
#endif

#if TRY & 4
 if(goo == moo) {
  exit(0);
 }
#endif
 exit(0);
}
int main() { sub(); }
EOCP
?X: This unit used to use cc -S in those tests to try to speed up things, but
?X: unfortunately, AIX 3.2 does not support this option.
 if $cc $ccflags -c -DTRY=$defvoidused try.c >.out 2>&1 ; then
  voidflags=$defvoidused
  echo "Good.  It appears to support void to the level $package wants."
  if $contains warning .out >/dev/null 2>&1; then
   echo "However, you might get some warnings that look like this:"
   $sed -e 's/^/ /' .out
  fi
 else
echo "Hmm, your compiler has some difficulty with void. Checking further..." >&4
  $cat >&4 flags
  $rm -f flags
  if $cc $ccflags -c -DTRY=1 try.c >/dev/null 2>&1; then
   echo
 "It supports 1..."
   if $cc $ccflags -c -DTRY=3 try.c >/dev/null 2>&1; then
    echo "It also supports 2..."
    if $cc $ccflags -c -DTRY=7 try.c >/dev/null 2>&1; then
     voidflags=7
     echo "And it supports 4 but not 8 definitely."
    else
     echo "It doesn't support 4..."
     if $cc $ccflags -c -DTRY=11 try.c >/dev/null 2>&1; then
      voidflags=11
      echo "But it supports 8."
     else
      voidflags=3
      echo "Neither does it support 8."
     fi
    fi
   else
    echo "It does not support 2..."
    if $cc $ccflags -c -DTRY=13 try.c >/dev/null 2>&1; then
     voidflags=13
     echo "But it supports 4 and 8."
```

```
    else
     if $cc $ccflags -c -DTRY=5 try.c >/dev/null 2>&1; then
      voidflags=5
      echo "And it supports 4 but has not heard about 8."
     else
      echo "However it supports 8 but not 4."
     fi
    fi
   fi
  else
   echo "There is no support at all for void."
   voidflags=0
  fi
 fi
esac
?X: Only prompt user if support does not match the
 level we want
case "$voidflags" in
"$defvoidused")
 echo "Good.  I already know it supports void to the level $package wants."
 ;;
*)
 dflt="$voidflags";
 test -f flags && $cat flags
 rp="Your void support flags add up to what?"
 . ./myread
 voidflags="$ans"
 ;;
esac
$rm_try flags
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/voidflags.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
```

```
?RCS: $Log: i_neterrno.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:20:29  ram
?RCS: patch36: forgot to initialize 'val' to an empty value (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:22:10  ram
?RCS: patch32: removed spurious echo
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:02:05  ram
?RCS: patch30: created by ADO
?RCS:
?MAKE:i_neterrno: Inhdr +cc +ccflags rm_try Setvar
?MAKE: -pick add $@ %<
?S:i_neterrno:
?S: This variable
 conditionally defines the I_NET_ERRNO symbol, which
?S: indicates to the C program that <net/errno.h> exists and should
?S: be included.
?S:.
?C:I_NET_ERRNO:
?C: This symbol, if defined, indicates that <net/errno.h> exists and
?C: should be included.
?C:.
?H:#$i_neterrno I_NET_ERRNO  /**/
?H:.
?LINT:set i_neterrno
: see if net/errno.h is available
val=''
set net/errno.h val
eval $inhdr

: Unfortunately, it causes problems on some systems.  Arrgh.
case "$val" in
$define)
 cat > try.c <<'EOM'
#include <stdio.h>
#include <errno.h>
#include <net/errno.h>
int func()
{
 return ENOTSOCK;
}
EOM
 if $cc $ccflags -c try.c >/dev/null 2>&1; then
  echo "We'll be including <net/errno.h>." >&4
 else
  echo "We won't be including <net/errno.h>." >&4
  val="$undef"
 fi
```

```
 $rm_try
 ;;
esac
set i_neterrno
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_neterrno.U
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```
?RCS: $Id: d_linuxstd.U 1 2006-08-24 12:32:52Z rmanfredi $
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?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_linuxstd.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:14:05  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_linuxstd: d_stdstdio cppstdin cppflags cppminus \
 contains rm Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_linuxstd:
?S: This variable conditionally defines USE_LINUX_STDIO if this system
?S: has a FILE structure declaring _IO_read_base, _IO_read_ptr,
?S: and _IO_read_end
 in stdio.h.
?S:.
?C:USE_LINUX_STDIO:
?C: This symbol is defined if this system has a FILE structure declaring
?C: _IO_read_base, _IO_read_ptr, and _IO_read_end in stdio.h.
?C:.
?H:#$d_linuxstd USE_LINUX_STDIO  /**/
?H:.
?T:xxx
?LINT:set d_linuxstd
: see if stdio is like that in linux
case "$d_stdstdio" in
"$undef")
 echo " "
```

```
 xxx=`./findhdr stdio.h`
 $cppstdin $cppflags $cppminus < "$xxx" > stdio.E
 if $contains 'char.*_IO_read_base' stdio.E >/dev/null 2>&1 && \
  $contains '_IO_read_ptr' stdio.E >/dev/null 2>&1 && \
  $contains '_IO_read_end' stdio.E >/dev/null 2>&1 ; then
   echo "Your stdio looks like linux." >&4
   val="$define"
 else
  echo "You don't have linux stdio, either." >&4
  val="$undef"
 fi
 $rm -f stdio.E
 ;;
*) val="$undef" ;;
esac

set d_linuxstd
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_linuxstd.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:ptrsize: cat rm_try Myread +cc +ccflags
?MAKE: -pick add $@ %<
?S:ptrsize:
?S: This variable contains the value of the PTRSIZE symbol, which
?S: indicates to the C program how many bytes there are in a pointer.
?S:.
?C:PTRSIZE:
?C: This symbol contains the size of a pointer, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define PTRSIZE $ptrsize  /**/
?H:.
?F:!try
: check for length of pointer
```

```
echo " "
case "$ptrsize" in
")
 echo "Checking to see how big your pointers are..."
 >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
 printf("%d\n", sizeof(char *));
}
EOCP
 if $cc $ccflags -o try try.c >/dev/null 2>&1 ; then
  dflt=`./try`
 else
  dflt='4'
  echo "(I can't seem to compile the test program.  Guessing...)"
 fi
 ;;
*)
 dflt="$ptrsize"
 ;;
esac
rp="What is the size of a pointer (in bytes)?"
. ./myread
ptrsize="$ans"
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/ptrsize.U
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```
?RCS: $Id: d_inetaton.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Spider Boardman
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_inetaton.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:36:35  ram
?RCS: patch61: created
?RCS:
```

```
?MAKE:d_inetaton: Inlibc
?MAKE: -pick add $@ %<
?S:d_inetaton:
?S: This variable conditionally defines the HAS_INET_ATON symbol, which
?S: indicates to the C program that the inet_aton() function is available
?S: to parse IP address "dotted-quad" strings.
?S:.
?C:HAS_INET_ATON:
?C: This symbol, if defined, indicates
 to the C program that the
?C: inet_aton() function is available to parse IP address "dotted-quad"
?C: strings.
?C:.
?H:#$d_inetaton HAS_INET_ATON  /**/
?H:.
?LINT:set d_inetaton
: check whether inet_aton exists
set inet_aton d_inetaton
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_inetaton.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strtol.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strtol.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strtol: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtol:
?S: This variable conditionally defines the HAS_STRTOL symbol, which
?S: indicates to the C program that the strtol() routine is available
?S: to provide better numeric string conversion than atoi() and friends.
?S:.
?C:HAS_STRTOL (STRTOL):
?C: This symbol, if defined, indicates that
```

```
 the strtol routine is available
?C: to provide better numeric string conversion than atoi() and friends.
?C:.
?H:#$d_strtol HAS_STRTOL /**/
?H:.
?LINT:set d_strtol
: see if strtol exists
set strtol d_strtol
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strtol.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endpwent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_endpwent_r endpwent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_pwd extern_C
?MAKE: -pick add $@ %<
?S:d_endpwent_r:
?S: This variable conditionally defines the HAS_ENDPWENT_R symbol,
?S: which indicates to the C program that the endpwent_r()
?S: routine is available.
?S:.
?S:endpwent_r_proto:
?S: This variable encodes the prototype of endpwent_r.
?S: It is zero if d_endpwent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endpwent_r
?S: is defined.
?S:.
?C:HAS_ENDPWENT_R:
?C: This symbol, if defined, indicates that the endpwent_r routine
?C: is available to
 endpwent re-entrantly.
?C:.
?C:ENDPWENT_R_PROTO:
?C: This symbol encodes the prototype of endpwent_r.
?C: It is zero if d_endpwent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endpwent_r
?C: is defined.
?C:.
```

```
?H:#$d_endpwent_r HAS_ENDPWENT_R /**/
?H:#define ENDPWENT_R_PROTO $endpwent_r_proto /**/
?H:.
?T:try hdrs d_endpwent_r_proto
: see if endpwent_r exists
set endpwent_r d_endpwent_r
eval $inlibc
case "$d_endpwent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_pwd pwd.h"
 case "$d_endpwent_r_proto:$usethreads" in
 ":define") d_endpwent_r_proto=define
  set d_endpwent_r_proto endpwent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_endpwent_r_proto" in
 define)
 case "$endpwent_r_proto" in
 "|0) try='int endpwent_r(FILE**);'
 ./protochk "$extern_C $try" $hdrs && endpwent_r_proto=I_H ;;
 esac
 case "$endpwent_r_proto" in
 "|0) try='void endpwent_r(FILE**);'
 ./protochk "$extern_C $try" $hdrs && endpwent_r_proto=V_H ;;
 esac
 case "$endpwent_r_proto"
 in
 "|0) d_endpwent_r=undef
  endpwent_r_proto=0
  echo "Disabling endpwent_r, cannot determine prototype." >&4 ;;
 * ) case "$endpwent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) endpwent_r_proto="REENTRANT_PROTO_$endpwent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "endpwent_r has no prototype, not using it." >&4 ;;
  esac
  d_endpwent_r=undef
  endpwent_r_proto=0
  ;;
 esac
 ;;
*) endpwent_r_proto=0
 ;;
```

```
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_endpwent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: ipc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: ipc.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:53  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:ipc serve_shm serve_msg serve_inet_udp serve_inet_tcp serve_unix_udp \
 serve_unix_tcp: test Myread Oldconfig d_socket d_msg d_shm d_sem
?MAKE: -pick add $@ %<
?LINT:use d_msg d_sem
?S:ipc:
?S: This variable holds the type of IPC service we'll be using.  Values
?S: include "ip", "shm", "msg", "cms" and "os9".  We don't worry about
?S: cms or os9
 here, because Configure doesn't run in those places--HMS.
?S:.
?S:serve_shm:
?S: This variable controls the definition of SERVE_SHM, which tells the
?S: C program to use USG shared memory for IPC.
?S:.
?S:serve_msg:
?S: This variable controls the definition of SERVE_MSG, which tells the
?S: C program to use USG message queues for IPC.
?S:.
?S:serve_inet_udp:
?S: This variable controls the definition of SERVE_INET_UDP, which tells
?S: the C program to enable InterNet-domain UDP support for IPC.
?S:.
?S:serve_inet_tcp:
?S: This variable controls the definition of SERVE_INET_TCP, which tells
?S: the C program to enable InterNet-domain TCP support for IPC.
?S:.
?S:serve_unix_udp:
```

```
?S: This variable controls the definition of SERVE_UNIX_UDP, which tells
?S: the C program to enable Unix-domain UDP support for IPC.
?S:.
?S:serve_unix_tcp:
?S: This variable controls the definition of SERVE_UNIX_TCP, which tells
?S: the C program to enable Unix-domain TCP support for IPC.
?S:.
?C:SERVE_SHM:
?C: If
 defined, tells the C program to use USG shared memory for IPC.
?C:.
?C:SERVE_MSG:
?C: If defined, tells the C program to use USG message queues for IPC.
?C:.
?C:SERVE_INET_UDP:
?C: If defined, tells the C program to enable InterNet-domain UDP
?C: support for IPC.
?C:.
?C:SERVE_INET_TCP:
?C: If defined, tells the C program to enable InterNet-domain TCP
?C: support for IPC.
?C:.
?C:SERVE_UNIX_UDP:
?C: If defined, tells the C program to enable Unix-domain UDP
?C: support for IPC.
?C:.
?C:SERVE_UNIX_TCP:
?C: If defined, tells the C program to enable Unix-domain TCP
?C: support for IPC.
?C:.
?H:#$serve_shm SERVE_SHM /**/
?H:#$serve_msg SERVE_MSG /**/
?H:#$serve_inet_udp SERVE_INET_UDP /**/
?H:#$serve_inet_tcp SERVE_INET_TCP /**/
?H:#$serve_unix_udp SERVE_UNIX_UDP /**/
?H:#$serve_unix_tcp SERVE_UNIX_TCP /**/
?H:.
?X: FIXME -- RAM
?INIT:serve_shm="
?INIT:serve_msg="$undef"
?INIT:serve_inet_udp="
?INIT:serve_inet_tcp="
?INIT:serve_unix_udp="
?INIT:serve_unix_tcp="
: get IPC mechanism
echo
 " "
ipc="
```

```
while $test -z "$ipc"
do
 if $test "$ipc" != "shm" -a "$d_socket" = "$define"; then
  ipc=''
  if $test "$serve_inet_udp" = "$undef"; then
   dflt=n
  else
   dflt=y
  fi
  rp='Provide InterNet-domain UDP service?'
  . ./myread
  dflt=''
  case "$ans" in
  n*) serve_inet_udp="$undef";;
  *)
   serve_inet_udp="$define"
   ipc='ip'
   ;;
  esac

  if $test "$serve_inet_tcp" = "$define"; then
   dflt=y
  else
   dflt=n
  fi
  rp='Provide InterNet-domain TCP service?'
  . ./myread
  dflt=''
  case "$ans" in
  n*) serve_inet_tcp="$undef";;
  *)
   serve_inet_tcp="$define"
   ipc='ip'
   ;;
  esac

  if $test "$serve_unix_udp" = "$define"; then
   dflt=y
  else
   dflt=n
  fi
  rp='Provide Unix-domain UDP service?'
  . ./myread
  dflt=''
  case "$ans" in
  n*) serve_unix_udp="$undef";;
  *)
   serve_unix_udp="$define"
```

```
  ipc='ip'
  ;;
 esac

 if $test "$serve_unix_tcp" = "$define"; then
  dflt=y
 else
  dflt=n
 fi
 rp='Provide Unix-domain TCP service?'
 . ./myread
 dflt=''
 case
"$ans" in
 n*) serve_unix_tcp="$undef";;
 *)
  serve_unix_tcp="$define"
  ipc='ip'
  ;;
 esac
else
 serve_inet_udp="$undef"
 serve_inet_tcp="$undef"
 serve_unix_udp="$undef"
 serve_unix_tcp="$undef"
fi
if $test "$ipc" != "ip" -a "$d_shm" = "$define"; then
 echo "Providing USG shared memory IPC support." >&4
 serve_shm="$define"
 ipc='shm'
else
 serve_shm="$undef"
fi
if $test -z "$ipc"; then
 echo "You must select an IPC mechanism." >&4
fi
done
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/ipc.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_getgrent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.

```
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getgrent_r getgrent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_grp extern_C
?MAKE: -pick add $@ %<
?S:d_getgrent_r:
?S: This variable conditionally defines the HAS_GETGRENT_R symbol,
?S: which indicates to the C program that the getgrent_r()
?S: routine is available.
?S:.
?S:getgrent_r_proto:
?S: This variable encodes the prototype of getgrent_r.
?S: It is zero if d_getgrent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getgrent_r
?S: is defined.
?S:.
?C:HAS_GETGRENT_R:
?C: This symbol, if defined, indicates that the getgrent_r routine
?C: is available to
 getgrent re-entrantly.
?C:.
?C:GETGRENT_R_PROTO:
?C: This symbol encodes the prototype of getgrent_r.
?C: It is zero if d_getgrent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getgrent_r
?C: is defined.
?C:.
?H:#$d_getgrent_r HAS_GETGRENT_R /**/
?H:#define GETGRENT_R_PROTO $getgrent_r_proto /**/
?H:.
?T:try hdrs d_getgrent_r_proto
: see if getgrent_r exists
set getgrent_r d_getgrent_r
eval $inlibc
case "$d_getgrent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_grp grp.h"
 case "$d_getgrent_r_proto:$usethreads" in
 ":define") d_getgrent_r_proto=define
  set d_getgrent_r_proto getgrent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getgrent_r_proto" in
 define)
 case "$getgrent_r_proto" in
 "|0) try='int getgrent_r(struct group*, char*, size_t, struct group**);'
```

```
./protochk "$extern_C $try" $hdrs && getgrent_r_proto=I_SBWR ;;
esac
case "$getgrent_r_proto" in
"|0) try='int getgrent_r(struct group*, char*, int, struct group**);'
./protochk
"$extern_C $try" $hdrs && getgrent_r_proto=I_SBIR ;;
esac
case "$getgrent_r_proto" in
"|0) try='struct group* getgrent_r(struct group*, char*, size_t);'
./protochk "$extern_C $try" $hdrs && getgrent_r_proto=S_SBW ;;
esac
case "$getgrent_r_proto" in
"|0) try='struct group* getgrent_r(struct group*, char*, int);'
./protochk "$extern_C $try" $hdrs && getgrent_r_proto=S_SBI ;;
esac
case "$getgrent_r_proto" in
"|0) try='int getgrent_r(struct group*, char*, int);'
./protochk "$extern_C $try" $hdrs && getgrent_r_proto=I_SBI ;;
esac
case "$getgrent_r_proto" in
"|0) try='int getgrent_r(struct group*, char*, int, FILE**);'
./protochk "$extern_C $try" $hdrs && getgrent_r_proto=I_SBIH ;;
esac
case "$getgrent_r_proto" in
"|0) d_getgrent_r=undef
 getgrent_r_proto=0
 echo "Disabling getgrent_r, cannot determine prototype." >&4 ;;
* ) case "$getgrent_r_proto" in
 REENTRANT_PROTO*) ;;
 *) getgrent_r_proto="REENTRANT_PROTO_$getgrent_r_proto" ;;
 esac
 echo "Prototype:
$try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "getgrent_r has no prototype, not using it." >&4 ;;
 esac
 d_getgrent_r=undef
 getgrent_r_proto=0
 ;;
esac
;;
*) getgrent_r_proto=0
 ;;
esac
```

Found in path(s):

* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getgrent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
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?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:usemorebits: Setvar
?MAKE: -pick add $@ %<
?Y:TOP
?S:usemorebits:
?S: This variable conditionally defines the USE_MORE_BITS symbol,
?S: and indicates that explicit 64-bit interfaces and long doubles
?S: should be used when available.
?S:.
?C:USE_MORE_BITS:
?C: This symbol, if defined, indicates that 64-bit interfaces and
?C: long doubles should be used when available.
?C:.
?H:?%<:#ifndef USE_MORE_BITS
?H:?%<:#$usemorebits USE_MORE_BITS  /**/
?H:?%<:#endif
?H:.
?LINT:extern use64bitint
?LINT:change use64bitint
?LINT:extern uselongdouble
?LINT:change uselongdouble
: Check if morebits is requested
case "$usemorebits" in
"$define"|true|[yY]*)
 use64bitint="$define"
 uselongdouble="$define"
 usemorebits="$define"
 ;;
*) usemorebits="$undef"
 ;;
esac
```

Found
 in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/usemorebits.U
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```
?RCS: $Id: vendorhtml1dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorhtml1dir.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorhtml1dir vendorhtml1direxp installvendorhtml1dir: html1dir Getfile \
 Setprefixvar Oldconfig Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorhtml1dir:
?S: This variable contains the name of the directory for html
?S: pages.  It may have a ~ on the front.
?S: The standard distribution will put nothing in this
 directory.
?S: Vendors who distribute perl may wish to place their own
?S: html pages in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorhtml1direxp:
?S: This variable is the ~name expanded version of vendorhtml1dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorhtml1dir="
?S:installvendorhtml1dir:
?S: This variable is really the same as vendorhtml1direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorhtml1dir
: Set the vendorhtml1dir variables
case "$vendorprefix" in
") vendorhtml1dir="
 vendorhtml1direxp="
 ;;
*) : determine where vendor-supplied html pages go.
 : There is no standard location, so try to copy the previously-selected
 : directory structure for the core html pages.
```

```
 : XXX Better default suggestions would be welcome.
 case "$vendorhtml1dir"
 in
 ") dflt=`echo "$html1dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
 *) dflt=$vendorhtml1dir ;;
 esac
 case "$dflt" in
 "|' ') dflt=none ;;
 esac
 fn=dn+~
 rp='Pathname for the vendor-supplied html pages?'
 . ./getfile
 vendorhtml1dir="$ans"
 vendorhtml1direxp="$ansexp"
 ;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorhtml1dir" = "X" && vendorhtml1dir=' '
prefixvar=vendorhtml1dir
. ./installprefix
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/vendorhtml1dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_atoll: Inlibc
?MAKE: -pick add $@ %<
?S:d_atoll:
?S: This variable conditionally defines the HAS_ATOLL symbol, which
?S: indicates to the C program that the atoll() routine is available.
?S:.
?C:HAS_ATOLL:
?C: This symbol, if defined, indicates that the atoll routine is
?C: available to convert strings into long longs.
?C:.
?H:#$d_atoll HAS_ATOLL  /**/
?H:.
?LINT:set d_atoll
: see if atoll exists
set atoll d_atoll
```

eval $inlibc

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/atoll.U
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Myinit.U,v $
?RCS: Revision 3.0.1.1 1994/10/31 09:47:29 ram
?RCS: patch44: leading comment states this unit comes before option processing
?RCS:
?RCS: Revision 3.0 1993/08/18 12:05:07 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: If you want to initialize any default values, copy this unit to your
?X: personal U directory and add the assignments to the end. This file
?X: is included after variables are initialized but before any old
?X: config.sh file is read in and before
 any Configure switch processing.
?X:
?MAKE:Myinit: Init
?MAKE: -pick add $@ %<
?LINT: nocomment

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Myinit.U
No license file was found, but licenses were detected in source scan.

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?RCS: of the source tree for dist 3.0.

```
?RCS:
?MAKE:gidsign: Myread Typedef gidtype Compile run
?MAKE: -pick add $@ %<
?S:gidsign:
?S: This variable contains the signedness of a gidtype.
?S: 1 for unsigned, -1 for signed.
?S:.
?C:Gid_t_sign:
?C: This symbol holds the signedness of a Gid_t.
?C: 1 for unsigned, -1 for signed.
?C:.
?H:#define Gid_t_sign $gidsign  /* GID sign */
?H:.
?T:yyy zzz
?F:!try
: Check if GID is signed
echo " "
case "$gidtype" in
*_t) zzz="$gidtype" ;;
*)   zzz="gid"  ;;
esac
echo "Checking the sign of $zzz..." >&4
cat > try.c <<EOCP
#include <sys/types.h>
#include
 <stdio.h>
int main() {
 $gidtype foo = -1;
 if (foo < 0)
  printf("-1\n");
 else
  printf("1\n");
}
EOCP
set try
if eval $compile; then
 yyy=`$run ./try`
 case "$yyy" in
 ") gidsign=1
  echo "(I can't execute the test program--guessing unsigned.)" >&4
  ;;
 *) gidsign=$yyy
  case "$gidsign" in
   1) echo "Your $zzz is unsigned." ;;
  -1) echo "Your $zzz is signed."   ;;
  esac
  ;;
 esac
```

```
else
 gidsign=1
 echo "(I can't compile the test program--guessing unsigned.)" >&4
fi
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/gidsign.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2006-2007, H.Merijn Brand
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_builtin_choose_expr d_builtin_expect : Compile Setvar cat run rm_try
?MAKE: -pick add $@ %<
?S:d_builtin_choose_expr:
?S: This conditionally defines HAS_BUILTIN_CHOOSE_EXPR, which
?S: indicates that the compiler supports __builtin_choose_expr(x,y,z).
?S: This built-in function is analogous to the "x?y:z" operator in C,
?S: except that the expression returned has its type unaltered by
?S: promotion rules. Also, the built-in function does not evaluate
?S: the expression that was not chosen.
?S:.
?S:d_builtin_expect:
?S: This conditionally
 defines HAS_BUILTIN_EXPECT, which indicates
?S: that the compiler supports __builtin_expect(exp,c).  You may use
?S: __builtin_expect to provide the compiler with branch prediction
?S: information.
?S:.
?C:HAS_BUILTIN_CHOOSE_EXPR:
?C: Can we handle GCC builtin for compile-time ternary-like expressions
?C:.
?C:HAS_BUILTIN_EXPECT:
?C: Can we handle GCC builtin for telling that certain values are more
?C: likely
?C:.
?H:#$d_builtin_expect HAS_BUILTIN_EXPECT /**/
?H:#$d_builtin_choose_expr HAS_BUILTIN_CHOOSE_EXPR /**/
?H:.
?F:!try
?LINT:set d_builtin_expect d_builtin_choose_expr
: Look for GCC-style __builtin_choose_expr
```

```
case "$d_builtin_choose_expr" in
")
   echo " "
   echo "Checking whether your compiler can handle __builtin_choose_expr ..." >&4
   $cat >try.c <<'EOCP'
#include <assert.h>
#include <stdlib.h>
#include <stdio.h>

#define SYRINX(x) __builtin_choose_expr( x, (1056*2), (103*50) )

int main(void) {
   assert( SYRINX(1) == 2112 );
   assert( SYRINX(1) != 5150 );
    assert( SYRINX(0) == 5150 );
   assert( SYRINX(0) != 2112 );
   puts( "All good!" );
   exit(0);
}

EOCP
   set try
   if eval $compile && $run ./try; then
 echo "Your C compiler supports __builtin_choose_expr."
 val="$define"
   else
 echo "Your C compiler doesn't seem to understand __builtin_choose_expr."
 val="$undef"
   fi
;;
*) val="$d_builtin_choose_expr" ;;
esac

set d_builtin_choose_expr
eval $setvar
$rm_try

: Look for GCC-style __builtin_expect
case "$d_builtin_expect" in
")
   echo " "
   echo "Checking whether your compiler can handle __builtin_expect ..." >&4
   $cat >try.c <<'EOCP'
int main(void) {
   int n = 50;
   if ( __builtin_expect(n, 0) ) n = 1;
   /* Remember shell exit code truth is 0, C truth is non-zero */
   return !(n == 1);
```

```
}
EOCP
   set try
   if eval $compile && $run ./try; then
 echo "Your C compiler supports __builtin_expect."
 val="$define"
   else
 echo "Your C compiler doesn't seem to understand __builtin_expect."
 val="$undef"
    fi
   ;;
*) val="$d_builtin_expect" ;;
esac

set d_builtin_expect
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_builtin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_syswait.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_syswait.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit looks wether <sys/wait.h> is available or not
?X:
?MAKE:i_syswait: Inhdr
?MAKE: -pick add $@ %<
?S:i_syswait:
?S: This variable conditionally defines I_SYS_WAIT, which indicates
?S: to the C program that it should include <sys/wait.h>.
?S:.
?C:I_SYS_WAIT (I_SYSWAIT):
?C: This symbol, if defined, indicates to the C program
```

```
 that it should
?C: include <sys/wait.h>.
?C:.
?H:#$i_syswait I_SYS_WAIT /**/
?H:.
?LINT:set i_syswait
: see if this is a syswait system
set sys/wait.h i_syswait
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_syswait.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_statblks.U,v 3.0 1993/08/18 12:07:29 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_statblks.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:29  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_statblks: Hasfield i_sysstat
?MAKE: -pick add $@ %<
?S:d_statblks:
?S: This variable conditionally defines USE_STAT_BLOCKS
?S: if this system has a stat structure declaring
?S: st_blksize and st_blocks.
?S:.
?C:USE_STAT_BLOCKS (STATBLOCKS):
?C: This symbol is defined if this system has a stat structure declaring
?C: st_blksize and st_blocks.
?C:.
?H:?%<:#ifndef
 USE_STAT_BLOCKS
?H:?%<:#$d_statblks USE_STAT_BLOCKS /**/
?H:?%<:#endif
?H:.
?LINT:set d_statblks
: see if stat knows about block sizes
echo " "
```

```
echo "Checking to see if your struct stat has st_blocks field..." >&4
set d_statblks stat st_blocks $i_sysstat sys/stat.h
eval $hasfield
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_statblks.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setvbuf.U,v 3.0.1.1 1994/08/29 16:11:57 ram Exp $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_setvbuf.U,v $
?RCS:
?MAKE:d_setvbuf: Inlibc
?MAKE: -pick add $@ %<
?S:d_setvbuf:
?S: This variable conditionally defines the HAS_SETVBUF symbol, which
?S: indicates to the C program that the setvbuf() routine is available
?S: to change buffering on an open stdio stream.
?S:.
?C:HAS_SETVBUF :
?C: This symbol, if defined, indicates that the setvbuf routine is
?C: available to change buffering on an open stdio stream.
?C: to a line-buffered mode.
?C:.
?H:#$d_setvbuf HAS_SETVBUF  /**/
?H:.
?LINT:set d_setvbuf
: see if setvbuf exists
set setvbuf d_setvbuf
eval $inlibc
```

Found
 in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_setvbuf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_varhdr.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_varhdr.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:54:42  ram
?RCS: patch61: varargs script now starts with leading "startsh"
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:21:02  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/13  15:26:05  ram
?RCS: patch27: this unit now supersedes old i_stdarg.U and i_varargs.U
?RCS: patch27: modified to avoid spurious Whoa warnings (ADO)
?RCS:
?RCS: Revision 3.0
  1993/08/18  12:08:49  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_stdarg i_varargs i_varhdr: cat +cc +ccflags rm test Setvar \
 Findhdr startsh _o
?MAKE: -pick add $@ %<
?S:i_stdarg:
?S: This variable conditionally defines the I_STDARG symbol, which
?S: indicates to the C program that <stdarg.h> exists and should
?S: be included.
?S:.
?S:i_varargs:
?S: This variable conditionally defines I_VARARGS, which indicates
?S: to the C program that it should include <varargs.h>.
?S:.
?S:i_varhdr:
?S: Contains the name of the header to be included to get va_dcl definition.
?S: Typically one of varargs.h or stdarg.h.
?S:.
?C:I_STDARG:
?C: This symbol, if defined, indicates that <stdarg.h> exists and should
?C: be included.
?C:.
?C:I_VARARGS:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <varargs.h>.
?C:.
?H:#$i_stdarg I_STDARG  /**/
?H:#$i_varargs I_VARARGS /**/
```

```
?H:.
?W:%<:va_dcl
?F:!varargs
?T:valstd
?LINT:set i_stdarg i_varargs
?X:
?X:
 Don't use setvar because the varargs test below might override these.
?X: Actually, the messages here are just informative. We don't wish to set
?X: i_varargs or i_stdarg to their final value before knowing which of the
?X: two we'll include.
?X:
: see if stdarg is available
echo " "
if $test `./findhdr stdarg.h`; then
 echo "<stdarg.h> found." >&4
 valstd="$define"
else
 echo "<stdarg.h> NOT found." >&4
 valstd="$undef"
fi

: see if varargs is available
echo " "
if $test `./findhdr varargs.h`; then
 echo "<varargs.h> found." >&4
else
 echo "<varargs.h> NOT found, but that's ok (I hope)." >&4
fi

?X:
?X: if you have stdarg.h, you need to support prototypes to actually use it;
?X: but if stdarg.h exists and the compiler doesn't support prototypes (for some
?X: bizarre reason), we'll fall back to varargs.h anyway so it's not so bad.
?X:
: set up the varargs testing programs
$cat > varargs.c <<EOP
#ifdef I_STDARG
#include <stdarg.h>
#endif
#ifdef I_VARARGS
#include <varargs.h>
#endif

#ifdef
 I_STDARG
int f(char *p, ...)
#else
```

```
int f(va_alist)
va_dcl
#endif
{
 va_list ap;
#ifndef I_STDARG
 char *p;
#endif
#ifdef I_STDARG
 va_start(ap,p);
#else
 va_start(ap);
 p = va_arg(ap, char *);
#endif
 va_end(ap);
 return 0;
}
EOP
$cat > varargs <<EOP
$startsh
if $cc -c $ccflags -D\$1 varargs.c >/dev/null 2>&1; then
 echo "true"
else
 echo "false"
fi
$rm -f varargs$_o
EOP
chmod +x varargs

: now check which varargs header should be included
echo " "
i_varhdr=''
val=''
case "$valstd" in
"$define")
 if `./varargs I_STDARG`; then
  val='stdarg.h'
 elif `./varargs I_VARARGS`; then
  val='varargs.h'
 fi
 ;;
*)
 if `./varargs I_VARARGS`; then
  val='varargs.h'
 fi
 ;;
esac
case "$val" in
```

```
")
 echo " "
 echo "*** WHOA THERE!!! ***" >&4
 echo "    Your C compiler \"$cc\" doesn't seem to support stdarg or varargs!" >&4
 case "$knowitall" in
 ")
 echo "    I'm giving up; maybe you can try again with a different compiler?" >&4
  exit 1
  ;;
 esac
echo "I could not find the definition for va_dcl...
 You have problems..." >&4
 val="$undef"; set i_stdarg; eval $setvar
 val="$undef"; set i_varargs; eval $setvar
 ;;
*)
 set i_varhdr
 eval $setvar
 case "$i_varhdr" in
 stdarg.h)
  val="$define"; set i_stdarg; eval $setvar
  val="$undef"; set i_varargs; eval $setvar
  ;;
 varargs.h)
  val="$undef"; set i_stdarg; eval $setvar
  val="$define"; set i_varargs; eval $setvar
  ;;
 esac
 echo "We'll include <$i_varhdr> to get va_dcl definition." >&4;;
esac
$rm -f varargs*
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_varhdr.U
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```
?RCS: $Id$
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_scalbnl: Inlibc
?MAKE: -pick add $@ %<
?S:d_scalbnl:
?S: This variable conditionally defines the HAS_SCALBNL symbol, which
```

```
?S: indicates to the C program that the scalbnl() routine is available.
?S: If ilogbl is also present we can emulate frexpl.
?S:.
?C:HAS_SCALBNL:
?C: This symbol, if defined, indicates that the scalbnl routine is
?C: available.  If ilogbl is also present we can emulate frexpl.
?C:.
?H:#$d_scalbnl HAS_SCALBNL  /**/
?H:.
?LINT:set d_scalbnl
: see if scalbnl exists
set scalbnl d_scalbnl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_scalbnl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setrgid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setrgid.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setrgid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setrgid:
?S: This variable conditionally defines the HAS_SETRGID symbol, which
?S: indicates to the C program that the setrgid() routine is available
?S: to change the real gid of the current program.
?S:.
?C:HAS_SETRGID (SETRGID):
?C: This symbol, if defined, indicates that the setrgid
 routine is available
?C: to change the real gid of the current program.
?C:.
?H:#$d_setrgid HAS_SETRGID  /**/
?H:.
?LINT:set d_setrgid
```

```
: see if setrgid exists
set setrgid d_setrgid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setrgid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ttyname_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_ttyname_r ttyname_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_unistd extern_C
?MAKE: -pick add $@ %<
?S:d_ttyname_r:
?S: This variable conditionally defines the HAS_TTYNAME_R symbol,
?S: which indicates to the C program that the ttyname_r()
?S: routine is available.
?S:.
?S:ttyname_r_proto:
?S: This variable encodes the prototype of ttyname_r.
?S: It is zero if d_ttyname_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_ttyname_r
?S: is defined.
?S:.
?C:HAS_TTYNAME_R:
?C: This symbol, if defined, indicates that the ttyname_r routine
?C: is available to ttyname re-entrantly.
?C:.
?C:TTYNAME_R_PROTO:
?C: This
 symbol encodes the prototype of ttyname_r.
?C: It is zero if d_ttyname_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_ttyname_r
?C: is defined.
?C:.
?H:#$d_ttyname_r HAS_TTYNAME_R /**/
?H:#define TTYNAME_R_PROTO $ttyname_r_proto /**/
?H:.
?T:try hdrs d_ttyname_r_proto
: see if ttyname_r exists
set ttyname_r d_ttyname_r
```

```
eval $inlibc
case "$d_ttyname_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_unistd unistd.h"
 case "$d_ttyname_r_proto:$usethreads" in
 ":define") d_ttyname_r_proto=define
  set d_ttyname_r_proto ttyname_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_ttyname_r_proto" in
 define)
 case "$ttyname_r_proto" in
 "|0) try='int ttyname_r(int, char*, size_t);'
 ./protochk "$extern_C $try" $hdrs && ttyname_r_proto=I_IBW ;;
 esac
 case "$ttyname_r_proto" in
 "|0) try='int ttyname_r(int, char*, int);'
 ./protochk "$extern_C $try" $hdrs && ttyname_r_proto=I_IBI ;;
 esac
 case "$ttyname_r_proto"
 in
 "|0) try='char* ttyname_r(int, char*, int);'
 ./protochk "$extern_C $try" $hdrs && ttyname_r_proto=B_IBI ;;
 esac
 case "$ttyname_r_proto" in
 "|0) d_ttyname_r=undef
  ttyname_r_proto=0
  echo "Disabling ttyname_r, cannot determine prototype." >&4 ;;
 * ) case "$ttyname_r_proto" in
  REENTRANT_PROTO*) ;;
  *) ttyname_r_proto="REENTRANT_PROTO_$ttyname_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "ttyname_r has no prototype, not using it." >&4 ;;
  esac
  d_ttyname_r=undef
  ttyname_r_proto=0
  ;;
 esac
 ;;
*) ttyname_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_ttyname_r.U
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```
?RCS: $Id: d_xdrs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_xdrs.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_xdrs: cat Csym Setvar
?MAKE: -pick add $@ %<
?S:d_xdrs:
?S: This symbol conditionally defines HAS_XDRS which indicates to the C
?S: program that XDR serialization routines are available.
?S:.
?C:HAS_XDRS (XDRS):
?C: This symbol if defined indicates to the C program that the XDR
?C: serialization routines are available to transfer data
 accross
?C: various architectures.
?C:.
?H:#$d_xdrs HAS_XDRS /**/
?H:.
?LINT:set d_xdrs
: see if XDR is available
echo " "
if set xdr_int val -f d_xdrs; eval $csym; $val; then
 echo "Ahh! You have XDR routines for network communications." >&4
 val="$define"
else
 $cat >&4 <<EOM
Sigh! You do not have XDR routines -- Network communications may be hazardous.
EOM
 val="$undef"
fi
set d_xdrs
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_xdrs.U
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```
?RCS: $Id$
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strftime.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:36  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strftime: Inlibc
?MAKE: -pick add $@ %<
?S:d_strftime:
?S: This variable conditionally defines HAS_STRFTIME if strftime() is
?S: available to format locale-specific times.
?S:.
?C:HAS_STRFTIME:
?C: This symbol, if defined, indicates that the strftime routine is
?C: available to format locale-specific times.
?C:.
?H:#$d_strftime HAS_STRFTIME /**/
?H:.
?LINT:set d_strftime
: see
 if strftime exists
set strftime d_strftime
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strftime.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: bitpbyte.U,v 3.0.1.1 1994/10/29 16:02:54 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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```

```
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: bitpbyte.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:02:54  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:bitpbyte: cat rm Myread Compile run
?MAKE: -pick add $@ %<
?S:bitpbyte:
?S: This variable contains the value of the BITS_PER_BYTE symbol, which
?S: indicates to the C program how many bits there are in a byte.
?S:.
?C:BITS_PER_BYTE:
?C: This
 symbol contains the number of bits in a byte, so that the C
?C: preprocessor can make decisions based on it.
?C:.
?H:#define BITS_PER_BYTE $bitpbyte  /**/
?H:.
?F:!try
: check for length of byte
echo " "
case "$bitpbyte" in
")
 echo "Checking to see how many bits there are in a byte..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
?X: Standard C requires a macro CHAR_BIT in <limits.h>
#ifdef __STDC__
#include <limits.h>
#ifndef CHAR_BIT
#define CHAR_BIT 8
#endif
#ifndef BITSPERBYTE
#define BITSPERBYTE CHAR_BIT
#endif
#else
?X: On non standard C, try with <values.h>
#include <values.h>
#ifndef BITSPERBYTE
#define BITSPERBYTE 8
#endif
#endif
```

```
int main()
{
 printf("%d\n", BITSPERBYTE);
}
EOCP
 set try
 if eval $compile_ok; then
  dflt=`$run ./try`
 else
  dflt='8'
  echo "(I can't seem to compile the test program.  Guessing...)"
 fi
 ;;
*)
 dflt="$bitpbyte"
 ;;
esac
rp="What is the length of a byte (in bits)?"
. ./myread
bitpbyte="$ans"
$rm -f try.c try
```

Found in path(s):
*
 /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/bitpbyte.U
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```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysmman.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:11:20  ram
?RCS: patch16: created
?RCS:
?X:
?X: Look wether <sys/mman.h> needs to be included.
?X:
?MAKE:i_sysmman: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysmman:
```

```
?S: This variable conditionally defines the I_SYS_MMAN symbol,
?S: and indicates whether a C program should include <sys/mman.h>.
?S:.
?C:I_SYS_MMAN:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/mman.h>.
?C:.
?H:#$i_sysmman I_SYS_MMAN  /**/
?H:.
?LINT:set
 i_sysmman
: see if sys/mman.h has to be included
set sys/mman.h i_sysmman
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sysmman.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: voidflags.U,v 3.0.1.2 1997/02/28 16:27:58 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: voidflags.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:27:58  ram
?RCS: patch61: don't prompt them if the void support is high enough for us
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:37:44  ram
?RCS: patch45: cosmetic change to avoid spurious blank lines when using -s
?RCS:
?RCS: Revision 3.0  1993/08/18  12:10:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:voidflags defvoidused: cat rm_try compiler_warning +cc +ccflags package \
 Oldconfig
 Myread i_stdlib
?MAKE: -pick add $@ %<
?S:voidflags:
?S: This variable contains the eventual value of the VOIDFLAGS symbol,
?S: which indicates how much support of the void type is given by this
?S: compiler.  See VOIDFLAGS for more info.
```

```
?S:.
?S:defvoidused:
?S: This variable contains the default value of the VOIDUSED symbol (15).
?S:.
?X: Exceptionally, we have to explicitly alias the symbol name for
?X: config_h.SH, otherwise the comment would not appear.
?C:VOIDFLAGS ~ %<:
?C: This symbol indicates how much support of the void type is given by this
?C: compiler.  What various bits mean:
?C:
?C:     1 = supports declaration of void
?C:     2 = supports arrays of pointers to functions returning void
?C:     4 = supports comparisons between pointers to void functions and
?C:      addresses of void functions
?C:     8 = supports declaration of generic void pointers
?C:
?C: The package designer should define VOIDUSED to indicate the requirements
?C: of the package.  This can be
 done either by #defining VOIDUSED before
?C: including config.h, or by defining defvoidused in Myinit.U.  If the
?C: latter approach is taken, only those flags will be tested.  If the
?C: level of void support necessary is not present, defines void to int.
?C:.
?H:?%<:#ifndef VOIDUSED
?H:?%<:#define VOIDUSED $defvoidused
?H:?%<:#endif
?H:?%<:#define VOIDFLAGS $voidflags
?H:?%<:#if (VOIDFLAGS & VOIDUSED) != VOIDUSED
?H:?%<:#define void int  /* is void to be avoided? */
?H:?%<:#define M_VOID   /* Xenix strikes again */
?H:?%<:#endif
?H:.
?INIT:: full support for void wanted by default
?INIT:defvoidused=15
?INIT:
?LINT:known void M_VOID VOIDUSED
: check for void type
echo " "
echo "Checking to see how well your C compiler groks the void type..." >&4
case "$voidflags" in
")
 $cat >try.c <<EOCP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#if TRY & 1
void sub() {
```

```
#else
sub() {
#endif
 extern void moo(); /* function returning void */
 void (*goo)();  /* ptr to func returning
 void */
#if TRY & 8
 void *hue;  /* generic ptr */
#endif
#if TRY & 2
 void (*foo[10])();
#endif

#if TRY & 4
 if(goo == moo) {
  exit(0);
 }
#endif
 exit(0);
}
int main() { sub(); }
EOCP
?X: This unit used to use cc -S in those tests to try to speed up things, but
?X: unfortunately, AIX 3.2 does not support this option.
 if $cc $ccflags -c -DTRY=$defvoidused try.c >.out 2>&1 ; then
  voidflags=$defvoidused
 echo "Good.  It appears to support void to the level $package wants.">&4
  if $compiler_warning .out >/dev/null 2>&1; then
   echo "However, you might get some warnings that look like this:"
   $cat .out
  fi
 else
echo "Hmm, your compiler has some difficulty with void. Checking further..." >&4
  if $cc $ccflags -c -DTRY=1 try.c >/dev/null 2>&1; then
   echo "It supports 1..."
   if $cc $ccflags -c -DTRY=3 try.c >/dev/null 2>&1; then
    echo "It also supports 2..."
    if $cc $ccflags -c -DTRY=7 try.c >/dev/null 2>&1; then
     voidflags=7
     echo "And it supports 4 but not 8
 definitely."
    else
     echo "It doesn't support 4..."
     if $cc $ccflags -c -DTRY=11 try.c >/dev/null 2>&1; then
      voidflags=11
      echo "But it supports 8."
     else
      voidflags=3
```

```
      echo "Neither does it support 8."
     fi
    fi
   else
    echo "It does not support 2..."
    if $cc $ccflags -c -DTRY=13 try.c >/dev/null 2>&1; then
     voidflags=13
     echo "But it supports 4 and 8."
    else
     if $cc $ccflags -c -DTRY=5 try.c >/dev/null 2>&1; then
      voidflags=5
      echo "And it supports 4 but has not heard about 8."
     else
      echo "However it supports 8 but not 4."
     fi
    fi
   fi
  else
   echo "There is no support at all for void."
   voidflags=0
  fi
 fi
esac
?X: Only prompt user if support does not match the level we want
case "$voidflags" in
"$defvoidused") ;;
*) $cat >&4 <<'EOM'
 Support flag bits are:
   1: basic void declarations.
   2: arrays of pointers to functions returning void.
   4: operations between pointers to and addresses
 of void functions.
   8: generic void pointers.
EOM
 dflt="$voidflags";
 rp="Your void support flags add up to what?"
 . ./myread
 voidflags="$ans"
 ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/voidflags.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: lintlib.U 1 2006-08-24 12:32:52Z rmanfredi $

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: lintlib.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lintlib lintlibexp: Getfile Loc Oldconfig
?MAKE: -pick add $@ %<
?S:lintlib:
?S: This variable holds the name of the directory in which the user wants
?S: to put public lint-library files for the package in question.  It is
?S: most often a local directory such as /usr/local/lib/lint. Programs using
?S: this variable must be prepared to
 deal with ~name expansion.
?S:.
?S:lintlibexp:
?S: This variable is the same as the lintlib variable, but is filename
?S: expanded at configuration time, for convenient use in your makefiles.
?S:.
: determine where public lint libraries go
case "$lintlib" in
") dflt=`./loc . "." /usr/local/lib/lint /usr/lib/lint /usr/lib`;;
*) dflt="$lintlib" ;;
esac
echo " "
fn=d~
rp='Where do you want to put the public lint libraries?'
. ./getfile
lintlib="$ans"
lintlibexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/lintlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ftrncate.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
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```

```
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_ftrncate.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_ftrncate: Inlibc
?MAKE: -pick add $@ %<
?S:d_ftrncate (d_ftruncate):
?S: This variable conditionally defines the HAS_FTRUNCATE symbol, which
?S: indicates to the C program that the ftruncate() subroutine exists.
?S:.
?C:HAS_FTRUNCATE:
?C: This symbol, if defined, indicates that the ftruncate() subroutine
?C: exists.
?C:.
?H:#$d_ftrncate
 HAS_FTRUNCATE /**/
?H:.
?LINT:set d_ftrncate
: see if ftruncate exists
set ftruncate d_ftrncate
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_ftrncate.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: gidtype.U,v 3.0.1.3 1994/08/29 16:21:44 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: gidtype.U,v $
?RCS: Revision 3.0.1.3  1994/08/29  16:21:44  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS: patch32: removed useless usage of Setvar (for now)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:21:07  ram
```

```
?RCS: patch27: added lint hint
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:01:51  ram
?RCS: patch23: protected gidtype setting via setvar (ADO)
?RCS: patch23: made Gid_t comment more explicit (ADO)
?RCS:
?RCS: Revision
 3.0  1993/08/18  12:08:11  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:gidtype: Myread Typedef Findhdr
?MAKE: -pick add $@ %<
?S:gidtype:
?S: This variable defines Gid_t to be something like gid_t, int,
?S: ushort, or whatever type is used to declare the return type
?S: of getgid().  Typically, it is the type of group ids in the kernel.
?S:.
?C:Gid_t (GIDTYPE):
?C: This symbol holds the return type of getgid() and the type of
?C: argument to setrgid() and related functions.  Typically,
?C: it is the type of group ids in the kernel. It can be int, ushort,
?C: gid_t, etc... It may be necessary to include <sys/types.h> to get
?C: any typedef'ed information.
?C:.
?H:#define Gid_t $gidtype  /* Type for getgid(), etc... */
?H:.
?T:xxx
: see what type gids are declared as in the kernel
echo " "
echo "Looking for the type for group ids returned by getgid()."
set gid_t gidtype xxx stdio.h sys/types.h
eval $typedef
case "$gidtype" in
xxx)
 xxx=`./findhdr sys/user.h`
 set `grep
 'groups\[NGROUPS\];' "$xxx" 2>/dev/null` unsigned short
 case $1 in
 unsigned) dflt="$1 $2" ;;
 *) dflt="$1" ;;
 esac
 ;;
*) dflt="$gidtype";;
esac
case "$gidtype" in
gid_t) echo "gid_t found." ;;
*) rp="What is the type for group ids returned by getgid()?"
 . ./myread
```

```
 gidtype="$ans"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/gidtype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endnent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_endnent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_endnent: Inlibc
?MAKE: -pick add $@ %<
?S:d_endnent:
?S: This variable conditionally defines HAS_ENDNETENT if endnetent() is
?S: available to close whatever was being used for network queries.
?S:.
?C:HAS_ENDNETENT:
?C: This symbol, if defined, indicates that the endnetent() routine is
?C: available to close whatever was being used for network
 queries.
?C:.
?H:#$d_endnent HAS_ENDNETENT  /**/
?H:.
?LINT:set d_endnent
: see if endnetent exists
set endnetent d_endnent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_endnent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strxfrm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_strxfrm.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:12:04  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_strxfrm: Inlibc
?MAKE: -pick add $@ %<
?S:d_strxfrm:
?S: This variable conditionally defines HAS_STRXFRM if strxfrm() is
?S: available to transform strings.
?S:.
?C:HAS_STRXFRM:
?C: This symbol, if defined, indicates that the strxfrm() routine is
?C: available to transform
 strings.
?C:.
?H:#$d_strxfrm HAS_STRXFRM /**/
?H:.
?LINT:set d_strxfrm
: see if strxfrm exists
set strxfrm d_strxfrm
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strxfrm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: uidtype.U,v 3.0.1.3 1994/08/29 16:33:25 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: uidtype.U,v $
```

```
?RCS: Revision 3.0.1.3  1994/08/29  16:33:25  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20  07:09:36  ram
?RCS: patch30: comment for uidtype referred to the obsoleted symbol
?RCS:
?RCS: Revision 3.0.1.1  1994/05/13  15:28:27  ram
?RCS: patch27: made conformant to its gidtype.U companion
?RCS: patch27: question now explicitly mentions getuid()
?RCS:
?RCS: Revision 3.0  1993/08/18
  12:09:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:uidtype: Myread Typedef Findhdr
?MAKE: -pick add $@ %<
?S:uidtype:
?S: This variable defines Uid_t to be something like uid_t, int,
?S: ushort, or whatever type is used to declare user ids in the kernel.
?S:.
?C:Uid_t (UIDTYPE):
?C: This symbol holds the type used to declare user ids in the kernel.
?C: It can be int, ushort, uid_t, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Uid_t $uidtype  /* UID type */
?H:.
?T:xxx
: see what type uids are declared as in the kernel
echo " "
echo "Looking for the type for user ids returned by getuid()."
set uid_t uidtype xxx stdio.h sys/types.h
eval $typedef
case "$uidtype" in
xxx)
 xxx=`./findhdr sys/user.h`
 set `grep '_ruid;' "$xxx" 2>/dev/null` unsigned short
 case $1 in
 unsigned) dflt="$1 $2" ;;
 *) dflt="$1" ;;
 esac
 ;;
*) dflt="$uidtype";;
esac
case "$uidtype" in
uid_t) echo "uid_t found." ;;
*) rp="What
```

```
 is the type for user ids returned by getuid()?"
 . ./myread
 uidtype="$ans"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/uidtype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fcntl_can_lock.U,v$
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_fcntl_can_lock.U,v $
?RCS:
?MAKE:d_fcntl_can_lock: d_fcntl Compile Setvar cat rm_try run signal_t i_stdlib
?MAKE: -pick add $@ %<
?S:d_fcntl_can_lock:
?S: This variable conditionally defines the FCNTL_CAN_LOCK symbol
?S: and indicates whether file locking with fcntl() works.
?S:.
?C:FCNTL_CAN_LOCK:
?C: This symbol, if defined, indicates that fcntl() can be used
?C: for file locking.  Normally on Unix systems this is defined.
?C: It may be undefined on VMS.
?C:.
?H:#$d_fcntl_can_lock FCNTL_CAN_LOCK  /**/
?H:.
?F:!try
?LINT: set d_fcntl_can_lock
?X: fcntl may not be fully functional.  As of November 2000, on VMS and
?X: DOS/DJGPP, fctnl-based locking doesn't work.
?X: Thanks
 to Craig A. Berry <craig.berry@psinetcs.com> for this test.
: See if fcntl-based locking works.
echo " "
$cat >try.c <<EOCP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <unistd.h>
#include <fcntl.h>
```

```
#include <signal.h>
$signal_t blech(int x) { exit(3); }
int main() {
#if defined(F_SETLK) && defined(F_SETLKW)
    struct flock flock;
    int retval, fd;
    fd = open("try.c", O_RDONLY);
    flock.l_type = F_RDLCK;
    flock.l_whence = SEEK_SET;
    flock.l_start = flock.l_len = 0;
    signal(SIGALRM, blech);
    alarm(10);
    retval = fcntl(fd, F_SETLK, &flock);
    close(fd);
    (retval < 0 ? exit(2) : exit(0));
#else
    exit(2);
#endif
}
EOCP
echo "Checking if fcntl-based file locking works... "
case "$d_fcntl" in
"$define")
 set try
 if eval $compile_ok; then
  if $run ./try; then
   echo "Yes, it seems to work."
   val="$define"
  else
   echo "Nope, it didn't work."
   val="$undef"
   case "$?" in
   3) $cat >&4 <<EOM
***
*** I had to
 forcibly timeout from fcntl(..., F_SETLK, ...).
*** This is (almost) impossible.
*** If your NFS lock daemons are not feeling well, something like
*** this may happen, please investigate.  Cannot continue, aborting.
***
EOM
    exit 1
    ;;
   esac
  fi
 else
  echo "I'm unable to compile the test program, so I'll assume not."
  val="$undef"
```

```
 fi
 ;;
*) val="$undef";
 echo "Nope, since you don't even have fcntl()."
 ;;
esac
set d_fcntl_can_lock
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fcntl_can_lock.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fpclassl: Inlibc
?MAKE: -pick add $@ %<
?S:d_fpclassl:
?S: This variable conditionally defines the HAS_FPCLASSL symbol, which
?S: indicates to the C program that the fpclassl() routine is available.
?S:.
?C:HAS_FPCLASSL:
?C: This symbol, if defined, indicates that the fpclassl routine is
?C: available to classify long doubles.  Available for example in IRIX.
?C: The returned values are defined in <ieeefp.h> and are:
?C:
?C: FP_SNAN  signaling NaN
?C: FP_QNAN  quiet NaN
?C: FP_NINF  negative infinity
?C: FP_PINF  positive infinity
?C: FP_NDENORM negative denormalized non-zero
?C: FP_PDENORM positive denormalized non-zero
?C: FP_NZERO negative zero
?C: FP_PZERO positive zero
?C: FP_NNORM negative
 normalized non-zero
?C: FP_PNORM positive normalized non-zero
?C:.
?H:#$d_fpclassl HAS_FPCLASSL  /**/
?H:.
?LINT:set d_fpclassl
```

```
: see if fpclassl exists
set fpclassl d_fpclassl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fpclassl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: packadmin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
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?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:packadmin: cf_email Oldconfig Myread cat spackage package
?MAKE: -pick add $@ %<
?Y:TOP
?S:packadmin:
?S: Electronic mail address of the package administrator.
?S:.
: check wehther they will act as local admin for the package
$cat <<EOM

If you or somebody else will be maintaining $package at your site, please
fill in the correct e-mail address here so that they may be contacted
if necessary.  You may enter "none"
 for no administrator.

EOM
case "$packadmin" in
") dflt="$cf_email";;
*) dflt="$packadmin";;
esac
rp="$spackage administrator e-mail address"
. ./myread
packadmin="$ans"
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/packadmin.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: charsize.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:07:13  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:34  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:charsize: Assert Myread cat rm_try +cc +ccflags echo n c
?MAKE: -pick add $@ %<
?S:charsize:
?S: This variable contains the value of the CHARSIZE symbol, which
?S: indicates to the C program how many bytes there are in a character.
?S:.
?C:CHARSIZE:
?C: This symbol contains
 the size of a char, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define CHARSIZE $charsize
?H:.
?T:size s
: check for length of character
echo " "
$echo $n "Checking to see how big your characters are...$c" >&4
for size in 1 2 4 8 error; do
 $cat >try.c <<EOCP
#include "static_assert.h"
char foo;
int main()
{
 STATIC_ASSERT($size == sizeof(foo));
 return 0;
}
EOCP
 if $cc -c $ccflags try.c >/dev/null 2>&1; then break; fi
done
case "$size" in
error)
```

```
 echo " cannot compute it." >&4
 dflt=1
 rp="What is the size of a character (in bytes)?"
 . ./myread
 charsize="$ans"
 ;;
*)
 case "$size" in
 1) s=";;
 *) s='s';;
 esac
 echo " $size byte$s." >&4
 charsize=$size
 ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/charsize.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: startperl.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:25:06  ram
?RCS: patch61: warn them if the #! line is too long for their OS
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:startperl: cat rm sharpbang perlpath d_portable Myread
?MAKE: -pick add $@ %<
?S:startperl:
?S: This variable contains the string to put on the front of a perl
?S: script to make sure (hopefully) that it runs with perl and not some
?S: shell. Of course, that
 leading line must be followed by the classical
?S: perl idiom:
?S:  eval 'exec perl -S $0 ${1+"$@"}'
```

```
?S:   if $running_under_some_shell;
?S: to guarantee perl startup should the shell execute the script. Note
?S: that this magic incantation is not understood by csh.
?S:.
?C:STARTPERL:
?C: This symbol is the string that should be put on the front of a
?C: perl script to make sure (hopefully) that it runs with perl and
?C: not under some shell. That line should be followed by the classical
?C: invocation magic:
?C:  eval 'exec perl -S $0 ${1+"$@"}'
?C:   if $running_under_some_shell;
?C: to guarantee perl startup should the shell execute the script at first.
?C:.
?H:#define STARTPERL "$startperl"
?H:.
?T:pdflt
?F:!xtry
: figure out how to guarantee perl startup
case "$sharpbang" in
*!)
?X:
?X: Make sure the #!$perlpath magic incantation indeed works on this
?X: system... It might not if the length of the #! hook is greater
?X: than some hardwired kernel limit. -- RAM, 15/03/96
?X:
 $cat
 >xtry <<EOP
#!$perlpath
system("exit 0");
EOP
 chmod a+x xtry
 if ./xtry >/dev/null 2>&1; then
  $cat <<EOH

I can use the #! construct to start perl on your system. This will make
startup of perl scripts faster, but may cause problems if you want to share
those scripts and perl is not in a standard place (/usr/bin/perl) on all your
platforms. The alternative is to force a shell by starting the script with a
single ':' character.

EOH
  pdflt=y
 else
  $cat <<EOH

I could use the #! construct to start perl on your system, but using
   #!$perlpath
would be too long for your kernel to grok. Indeed, most systems do
```

```
limit the size of the leading #! string to 32 characters.

EOH
  pdflt=n
 fi
 $rm -f xtry
 case "$startperl" in
 *!*) dflt=y;;
 ") case "$d_portable" in
  "$define") dflt=n;;
  *) dflt=$pdflt;;
  esac;;
 *) dflt=n;;
 esac
 rp='Shall I use #! to start up perl?'
 . ./myread
 case "$ans" in
 y*|Y*) startperl="#!$perlpath";;
 *) startperl=": # use perl";;
 esac;;
*) startperl=":
 # use perl";;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/startperl.U
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```
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?RCS:
?MAKE:d_fpclass: Inlibc
?MAKE: -pick add $@ %<
?S:d_fpclass:
?S: This variable conditionally defines the HAS_FPCLASS symbol, which
?S: indicates to the C program that the fpclass() routine is available.
?S:.
?C:HAS_FPCLASS:
?C: This symbol, if defined, indicates that the fpclass routine is
?C: available to classify doubles.  Available for example in Solaris/SVR4.
?C: The returned values are defined in <ieeefp.h> and are:
?C:
?C: FP_SNAN  signaling NaN
```

```
?C: FP_QNAN  quiet NaN
?C: FP_NINF  negative infinity
?C: FP_PINF  positive infinity
?C: FP_NDENORM negative denormalized non-zero
?C: FP_PDENORM positive denormalized non-zero
?C: FP_NZERO negative zero
?C: FP_PZERO positive zero
?C: FP_NNORM negative normalized
 non-zero
?C: FP_PNORM positive normalized non-zero
?C:.
?H:#$d_fpclass HAS_FPCLASS  /**/
?H:.
?LINT:set d_fpclass
: see if fpclass exists
set fpclass d_fpclass
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fpclass.U
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```
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:siteman3dir siteman3direxp installsiteman3dir: Getfile \
 Setprefixvar prefix siteprefix man3dir sed
?MAKE: -pick add $@ %<
?Y:TOP
?D:siteman3dir=''
?S:siteman3dir:
?S: This variable contains the name of the directory in which site-specific
?S: library man source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S: The standard distribution will put nothing in this directory.
?S: After
 perl has been installed, users may install their own local
?S: man3 pages in this directory with
?S:  MakeMaker Makefile.PL
```

```
?S: or equivalent.  See INSTALL for details.
?S:.
?D:siteman3direxp="
?S:siteman3direxp:
?S: This variable is the same as the siteman3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsiteman3dir="
?S:installsiteman3dir:
?S: This variable is really the same as siteman3direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man3direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installsiteman3dir
?LINT:set siteman3dir
?LINT:set siteman3direxp
: determine where add-on library man pages go
case "$siteman3dir" in
") dflt=`echo $man3dir | $sed "s#^$prefix#$siteprefix#"` ;;
*) dflt=$siteman3dir ;;
esac
case "$dflt" in
"|' ') dflt=none ;;
esac
fn=dn+~
rp='Pathname
 where the site-specific library manual pages should be installed?'
. ./getfile
prefixvar=siteman3dir
. ./setprefixvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/siteman3dir.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS:
?MAKE:usesocks: Myread Oldconfig Setvar
?MAKE: -pick add $@ %<
?Y:TOP
```

```
?S:usesocks:
?S: This variable conditionally defines the USE_SOCKS symbol,
?S: and indicates that Perl should be built to use SOCKS.
?S:.
?C:USE_SOCKS:
?C: This symbol, if defined, indicates that Perl should
?C: be built to use socks.
?C:.
?H:?%<:#ifndef USE_SOCKS
?H:?%<:#$usesocks USE_SOCKS  /**/
?H:?%<:#endif
?H:.
?LINT:set usesocks
?INIT:: set usesocks on the Configure command line to enable socks.
: Check is we will use socks
?X: We should really have some explanatory text here, and some
?X: automatic setting of sensible defaults.
case "$usesocks" in
$define|true|[yY]*) dflt='y';;
*) dflt='n';;
esac
cat <<EOM

Perl can be built to
 use the SOCKS proxy protocol library.  To do so,
Configure must be run with -Dusesocks.  If you use SOCKS you also need
to use the PerlIO abstraction layer, this will be implicitly selected.

If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp='Build Perl for SOCKS?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*)      val="$undef" ;;
esac
set usesocks
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/usesocks.U
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```
?RCS: $Id: d_setreuid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setreuid.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setreuid d_setresuid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setreuid:
?S: This variable conditionally defines HAS_SETREUID if setreuid() is
?S: available to change the real and effective uid of the current
?S: process.
?S:.
?S:d_setresuid:
?S: This variable conditionally defines HAS_SETREUID if setresuid() is
?S: available to change
 the real, effective and saved uid of the current
?S: process.
?S:.
?C:HAS_SETREUID (SETREUID):
?C: This symbol, if defined, indicates that the setreuid routine is
?C: available to change the real and effective uid of the current
?C: process.
?C:.
?C:HAS_SETRESUID (SETRESUID):
?C: This symbol, if defined, indicates that the setresuid routine is
?C: available to change the real, effective and saved uid of the current
?C: process.
?C:.
?H:#$d_setreuid HAS_SETREUID  /**/
?H:#$d_setresuid HAS_SETRESUID  /**/
?H:.
?LINT:set d_setreuid d_setresuid
: see if setreuid exists
set setreuid d_setreuid
eval $inlibc
set setresuid d_setresuid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setreuid.U
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```
?RCS: $Id$
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_vfork.U,v $
?RCS: Revision 3.0.1.6  1994/08/29  16:18:21  ram
?RCS: patch32: set default to 'y' the first time
?RCS:
?RCS: Revision 3.0.1.5  1994/06/20  06:59:14  ram
?RCS: patch30: usevfork was not always properly set
?RCS:
?RCS: Revision 3.0.1.4  1994/05/13  15:20:56  ram
?RCS: patch27: modified to avoid spurious Whoa warnings (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/05/06  14:59:09  ram
?RCS: patch23: now explicitly ask whether vfork() should be used (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1993/10/16
  13:49:39  ram
?RCS: patch12: added magic for vfork()
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:06:57  ram
?RCS: patch10: removed automatic remapping of vfork on fork (WAD)
?RCS: patch10: added compatibility code for older config.sh (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_vfork usevfork: Inlibc Myread Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_vfork:
?S: This variable conditionally defines the HAS_VFORK symbol, which
?S: indicates the vfork() routine is available.
?S:.
?S:usevfork:
?S: This variable is set to true when the user accepts to use vfork.
?S: It is set to false when no vfork is available or when the user
?S: explicitly requests not to use vfork.
?S:.
?C:HAS_VFORK (VFORK):
?C: This symbol, if defined, indicates that vfork() exists.
?C:.
```

```
?H:#$d_vfork HAS_VFORK /**/
?H:.
?M:vfork: HAS_VFORK
?M:#ifndef HAS_VFORK
?M:#define vfork fork
?M:#endif
?M:.
?LINT:set d_vfork
: see if there is a vfork
val=''
set
 vfork val
eval $inlibc

: Ok, but do we want to use it. vfork is reportedly unreliable in
: perl on Solaris 2.x, and probably elsewhere.
case "$val" in
$define)
 echo " "
 case "$usevfork" in
 false) dflt='n';;
 *) dflt='y';;
 esac
 rp="Some systems have problems with vfork().  Do you want to use it?"
 . ./myread
 case "$ans" in
 y|Y) ;;
 *)
  echo "Ok, we won't use vfork()."
  val="$undef"
  ;;
 esac
 ;;
esac
?X:
?X: Only set it when final value is known to avoid spurious Whoas
?X: Then set usevfork accordingly to the current value, for next run
?X:
set d_vfork
eval $setvar
case "$d_vfork" in
$define) usevfork='true';;
*) usevfork='false';;
esac
```

Found in path(s):
* /opt/cola/permits/1865280714_1702281121.2681568/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_vfork.U

1.1959 tar 1.34+dfsg-1ubuntu0.1.22.04.2

1.1959.1 Available under license :

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1.1960 x-oauth2 0.15.0

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1.1961 golang-jwt 5.2.0

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1.1962 perl-base 5.36.0-7+deb12u1

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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sanemcmp.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:41:19  ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_sanemcmp: cat d_memcmp +cc +optimize +ccflags +libs +ldflags rm \
 i_memory i_stdlib i_string i_unistd Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_sanemcmp:
?S: This variable conditionally defines the HAS_SANE_MEMCMP symbol if
?S: the memcpy() routine is available and can be used to compare relative
?S: magnitudes of chars with their high bits set.
?S:.
?C:HAS_SANE_MEMCMP:
?C: This symbol,
 if defined, indicates that the memcmp routine is available
?C: and can be used to compare relative magnitudes of chars with their high
?C: bits set.  If it is not defined, roll your own version.
?C:.
?H:#$d_sanemcmp HAS_SANE_MEMCMP /**/
?H:.
?F:!sanemcmp
?LINT: set d_sanemcmp
: can memcmp be trusted to compare relative magnitude?
?X: assume the worst
val="$undef"
case "$d_memcmp" in
```

```
"$define")
 echo " "
 echo \
   "Checking to see if your memcmp() can compare relative magnitude..." >&4
 $cat >foo.c <<EOCP
#$i_memory I_MEMORY
#$i_stdlib I_STDLIB
#$i_string I_STRING
#$i_unistd I_UNISTD
EOCP
 $cat >>foo.c <<'EOCP'
#include <stdio.h>
#ifdef I_MEMORY
#  include <memory.h>
#endif
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#ifdef I_STRING
#  include <string.h>
#else
#  include <strings.h>
#endif
#ifdef I_UNISTD
#  include <unistd.h>  /* Needed for NetBSD */
#endif
int main()
{
char a = -1;
char b = 0;
if ((a < b) && memcmp(&a, &b, 1) < 0)
 exit(1);
exit(0);
}
EOCP
 if $cc $optimize $ccflags
 $ldflags \
      -o sanemcmp foo.c $libs >/dev/null 2>&1; then
  if ./sanemcmp 2>/dev/null; then
   echo "Yes, it can."
   val="$define"
  else
   echo "No, it can't (it uses signed chars)."
  fi
 else
  echo "(I can't compile the test program, so we'll assume not...)"
 fi
 ;;
```

```
esac
$rm -f foo.* sanemcmp core
set d_sanemcmp
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sanemcmp.U
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```
?RCS: $Id: d_getpent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_getpent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getpent: Inlibc
?MAKE: -pick add $@ %<
?S:d_getpent:
?S: This variable conditionally defines HAS_GETPROTOENT if getprotoent() is
?S: available to look up protocols in some data base or another.
?S:.
?C:HAS_GETPROTOENT:
?C: This symbol, if defined, indicates that the getprotoent() routine is
?C: available to look up protocols in some data base
 or another.
?C:.
?H:#$d_getpent HAS_GETPROTOENT  /**/
?H:.
?LINT:set d_getpent
: see if getprotoent exists
set getprotoent d_getpent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_getpent.U
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```
?RCS: $Id: d_readdir.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
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?RCS:
?RCS: $Log: d_readdir.U,v $
?RCS: Revision 3.0.1.1  1994/05/06  14:46:37  ram
?RCS: patch23: added support for seekdir, telldir and rewinddir (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X: Force checking for <dirent.h> inclusion
?X:INC: i_dirent
?MAKE:d_readdir d_seekdir d_telldir d_rewinddir: Inlibc
?MAKE: -pick add $@ %<
?S:d_readdir:
?S: This variable conditionally defines HAS_READDIR if readdir()
 is
?S: available to read directory entries.
?S:.
?C:HAS_READDIR (READDIR):
?C: This symbol, if defined, indicates that the readdir routine is
?C: available to read directory entries. You may have to include
?C: <dirent.h>. See I_DIRENT.
?C:.
?H:#$d_readdir HAS_READDIR  /**/
?H:.
?S:d_seekdir:
?S: This variable conditionally defines HAS_SEEKDIR if seekdir() is
?S: available.
?S:.
?C:HAS_SEEKDIR:
?C: This symbol, if defined, indicates that the seekdir routine is
?C: available. You may have to include <dirent.h>. See I_DIRENT.
?C:.
?H:#$d_seekdir HAS_SEEKDIR  /**/
?H:.
?S:d_telldir:
?S: This variable conditionally defines HAS_TELLDIR if telldir() is
?S: available.
?S:.
?C:HAS_TELLDIR:
?C: This symbol, if defined, indicates that the telldir routine is
```

```
?C: available. You may have to include <dirent.h>. See I_DIRENT.
?C:.
?H:#$d_telldir HAS_TELLDIR  /**/
?H:.
?S:d_rewinddir:
?S: This variable conditionally defines HAS_REWINDDIR if rewinddir() is
?S: available.
?S:.
?C:HAS_REWINDDIR:
?C: This
 symbol, if defined, indicates that the rewinddir routine is
?C: available. You may have to include <dirent.h>. See I_DIRENT.
?C:.
?H:#$d_rewinddir HAS_REWINDDIR  /**/
?H:.
?LINT:set d_readdir d_seekdir d_telldir d_rewinddir
: see if readdir and friends exist
set readdir d_readdir
eval $inlibc
@if d_seekdir || HAS_SEEKDIR
set seekdir d_seekdir
eval $inlibc
@end
@if d_telldir || HAS_TELLDIR
set telldir d_telldir
eval $inlibc
@end
@if d_rewinddir || HAS_REWINDDIR
set rewinddir d_rewinddir
eval $inlibc
@end
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_readdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_msync.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msync.U,v $
```

```
?RCS: Revision 3.0.1.1  1993/12/15  08:19:17  ram
?RCS: patch15: created
?RCS:
?MAKE:d_msync: Inlibc
?MAKE: -pick add $@ %<
?S:d_msync:
?S: This variable conditionally defines HAS_MSYNC if msync() is
?S: available to synchronize a mapped file.
?S:.
?C:HAS_MSYNC:
?C: This symbol, if defined, indicates that the msync system call is
?C: available to synchronize a mapped file.
?C:.
?H:#$d_msync HAS_MSYNC  /**/
?H:.
?LINT:set d_msync
: see if
 msync exists
set msync d_msync
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_msync.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setreuid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setreuid.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setreuid d_setresuid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setreuid:
?S: This variable conditionally defines HAS_SETREUID if setreuid() is
?S: available to change the real and effective uid of the current
?S: process.
?S:.
?S:d_setresuid:
```

```
?S: This variable conditionally defines HAS_SETREUID if setresuid() is
?S: available to change
 the real, effective and saved uid of the current
?S: process.
?S:.
?C:HAS_SETREUID (SETREUID):
?C: This symbol, if defined, indicates that the setreuid routine is
?C: available to change the real and effective uid of the current
?C: process.
?C:.
?C:HAS_SETRESUID (SETRESUID):
?C: This symbol, if defined, indicates that the setresuid routine is
?C: available to change the real, effective and saved uid of the current
?C: process.
?C:.
?H:#$d_setreuid HAS_SETREUID  /**/
?H:#$d_setresuid HAS_SETRESUID  /**/
?H:.
?LINT:set d_setreuid d_setresuid
: see if setreuid exists
set setreuid d_setreuid
eval $inlibc
set setresuid d_setresuid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setreuid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fcntl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_fcntl.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_fcntl: Inlibc
?MAKE: -pick add $@ %<
?S:d_fcntl:
?S: This variable conditionally defines the HAS_FCNTL symbol, and indicates
```

```
?S: whether the fcntl() function exists
?S:.
?C:HAS_FCNTL:
?C: This symbol, if defined, indicates to the C program that
?C: the fcntl() function exists.
?C:.
?H:#$d_fcntl HAS_FCNTL  /**/
?H:.
?LINT:set d_fcntl
:
 see if this is an fcntl system
set fcntl d_fcntl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_fcntl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_asinh: Inlibc
?MAKE: -pick add $@ %<
?S:d_asinh:
?S: This variable conditionally defines the HAS_ASINH symbol, which
?S: indicates to the C program that the asinh() routine is available.
?S:.
?C:HAS_ASINH:
?C: This symbol, if defined, indicates that the asinh routine is
?C: available to do the inverse hyperbolic sine function.
?C:.
?H:#$d_asinh HAS_ASINH  /**/
?H:.
?LINT:set d_asinh
: see if asinh exists
set asinh d_asinh
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_asinh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Guess.U,v $
?RCS: Revision 3.0.1.5  1995/07/25  13:37:14  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  15:53:55  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: call ./xenix explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.3  1993/12/15  08:14:35  ram
?RCS: patch15: variable d_bsd was not always set properly
?RCS:
?RCS: Revision 3.0.1.2  1993/08/30  08:57:14  ram
?RCS: patch8: fixed comment which wrongly
 attributed the usrinc symbol
?RCS: patch8: no more ugly messages when no /usr/include/ctype.h
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:37:37  ram
?RCS: patch7: added support for OSF/1 machines
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit hazards some guesses as to what the general nature of the system
?X: is.  The information it collects here is used primarily to establish default
?X: answers to other questions.
?X:
?MAKE:Guess d_eunice d_xenix d_bsd d_linux d_dos d_os2: cat test echo n c \
 contains rm tr Loc eunicefix
?MAKE: -pick add $@ %<
?S:d_eunice:
?S: This variable conditionally defines the symbols EUNICE_SYSTEM, which
?S: alerts the C program that it must deal with ideosyncracies of VMS.
?S:.
?S:d_xenix:
?S: This variable conditionally defines the symbol XENIX_SYSTEM, which alerts
?S: the C program that it runs under Xenix.
?S:.
?S:d_dos:
?S: This symbol conditionally defines the symbol DOS_SYSTEM
 when running on
?S: DOS with DJGPP or Cygwin.
```

```
?S:.
?S:d_os2:
?S: This symbol conditionally defines the symbol OS2_SYSTEM when running on
?S: an OS/2 system.
?S:.
?S:d_bsd:
?S: This symbol conditionally defines the symbol BSD_SYSTEM when running on a
?S: BSD system.
?S:.
?S:d_linux:
?S: This symbol conditionally defines the symbol LINUX_SYSTEM when running
?S: on a Linux system.
?S:.
?C:EUNICE_SYSTEM (EUNICE):
?C: This symbol, if defined, indicates that the program is being compiled
?C: under the EUNICE package under VMS.  The program will need to handle
?C: things like files that don't go away the first time you unlink them,
?C: due to version numbering.  It will also need to compensate for lack
?C: of a respectable link() command.
?C:.
?C:VMS_SYSTEM (VMS):
?C: This symbol, if defined, indicates that the program is running under
?C: VMS.  It is currently only set in conjunction with the EUNICE symbol.
?C:.
?C:XENIX_SYSTEM (XENIX):
?C: This symbol, if defined, indicates that the program
 is running under
?C: Xenix (at least 3.0 ?).
?C:.
?C:DOS_SYSTEM:
?C: This symbol, if defined, indicates that the program is running under
?C: DOS with DJGPP.
?C:.
?C:OS2_SYSTEM:
?C: This symbol, if defined, indicates that the program is running under
?C: an OS/2 system.
?C:.
?C:BSD_SYSTEM:
?C: This symbol, if defined, indicates that the program is running under
?C: a BSD system.
?C:.
?C:LINUX_SYSTEM:
?C: This symbol, if defined, indicates that the program is running under
?C: a Linux system.
?C:.
?H:#$d_eunice EUNICE_SYSTEM  /**/
?H:#$d_eunice VMS_SYSTEM  /**/
?H:#$d_xenix XENIX_SYSTEM  /**/
```

```
?H:#$d_dos DOS_SYSTEM  /**/
?H:#$d_os2 OS2_SYSTEM  /**/
?H:#$d_bsd BSD_SYSTEM  /**/
?H:#$d_linux LINUX_SYSTEM  /**/
?H:.
?F:./bsd ./usg ./v7 ./osf1 ./eunice ./xenix ./venix ./dos ./os2 ./gnu ./linux
?T:xxx DJGPP MACHTYPE
: make some quick guesses about what we are up against
echo " "
$echo $n "Hmm...  $c"
echo exit 1 >bsd
echo exit 1 >usg
echo exit 1 >v7
echo exit 1 >osf1
echo exit 1 >eunice
echo
 exit 1 >xenix
echo exit 1 >venix
echo exit 1 >os2
echo exit 1 >gnu
echo exit 1 >linux
echo exit 1 >dos
d_bsd="$undef"
d_linux="$undef"
d_dos="$undef"
d_os2="$undef"
?X:
?X: Do not use 'usrinc', or we get a circular dependency. because
?X: usrinc is defined in usrinc.U, which relies on us...
?X:
$cat /usr/include/signal.h /usr/include/sys/signal.h >foo 2>/dev/null
if test -f /osf_boot || $contains 'OSF/1' /usr/include/ctype.h >/dev/null 2>&1
then
 echo "Looks kind of like an OSF/1 system, but we'll see..."
 echo exit 0 >osf1
elif test `echo abc | $tr a-z A-Z` = Abc ; then
 xxx=`./loc addbib blurfl $pth`
 if $test -f $xxx; then
 echo "Looks kind of like a USG system with BSD features, but we'll see..."
  echo exit 0 >bsd
  echo exit 0 >usg
 else
  if $contains SIGTSTP foo >/dev/null 2>&1 ; then
   echo "Looks kind of like an extended USG system, but we'll see..."
  else
   echo "Looks kind of like a USG system, but we'll see..."
  fi
  echo exit 0 >usg
```

```
 fi
elif $contains SIGTSTP foo >/dev/null
 2>&1 ; then
 echo "Looks kind of like a BSD system, but we'll see..."
 d_bsd="$define"
 echo exit 0 >bsd
elif
 $rm --version 2>/dev/null >foo;
 $contains "Free Software Foundation" foo >/dev/null
then
 xxx=`uname`
 echo exit 0 >gnu
 echo "Looks kind of like a GNU/$xxx system, but we'll see..."
 if $test X$xxx = XLinux; then
  d_linux="$define"
  echo exit 0 >linux
 fi
else
 echo "Looks kind of like a Version 7 system, but we'll see..."
 echo exit 0 >v7
fi
case "$eunicefix" in
*unixtovms*)
 $cat <<'EOI'
There is, however, a strange, musty smell in the air that reminds me of
something...hmm...yes...I've got it...there's a VMS nearby, or I'm a Blit.
EOI
 echo exit 0 >eunice
 d_eunice="$define"
: it so happens the Eunice I know will not run shell scripts in Unix format
 ;;
*)
 echo " "
 echo "Congratulations.  You aren't running Eunice."
 d_eunice="$undef"
 ;;
esac
case "$p_" in
:) ;;
*)
 $cat <<'EOI'
I have the feeling something is not exactly right, however...don't tell me...
EOI
 if
 test -n "$DJGPP"; then
  case "X${MACHTYPE:-nonesuchmach}" in
  cygwin) echo "hah!... you're running under Cygwin!";;
  *) echo "got it... you're running DOS with DJGPP!";;
```

```
  esac
  echo exit 0 >dos
  d_dos="$define"
 else
  $cat <<'EOI'
lemme think...does HAL ring a bell?...no, of course, you're only running OS/2!
EOI
  echo exit 0 >os2
  d_os2="$define"
 fi
 ;;
esac
if test -f /xenix; then
 echo "Actually, this looks more like a XENIX system..."
 echo exit 0 >xenix
 d_xenix="$define"
else
 echo " "
 echo "It's not Xenix..."
 d_xenix="$undef"
fi
chmod +x xenix
$eunicefix xenix
if test -f /venix; then
 echo "Actually, this looks more like a VENIX system..."
 echo exit 0 >venix
else
 echo " "
 if ./xenix; then
  : null
 else
  echo "Nor is it Venix..."
 fi
fi
chmod +x bsd usg v7 osf1 eunice xenix venix dos os2 gnu linux
$eunicefix bsd usg v7 osf1 eunice xenix venix dos os2 gnu linux
$rm -f foo
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Guess.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_safebcpy.U,v 3.0.1.4 1997/02/28 15:40:58 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_safebcpy.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  15:40:58  ram
?RCS: patch61: improved overlapping copy check
?RCS: patch61: comfort them if they have memmove
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.3  1995/07/25  13:58:40  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.2  1995/01/11  15:29:23  ram
?RCS: patch45: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS:
 Revision 3.0.1.1  1994/05/06  14:49:03  ram
?RCS: patch23: ensure string is not optimized in read-only memory (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_safebcpy: cat d_bcopy Compile rm_try run \
 d_memmove i_memory i_stdlib i_string i_unistd Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_safebcpy:
?S: This variable conditionally defines the HAS_SAFE_BCOPY symbol if
?S: the bcopy() routine can do overlapping copies.  Normally, you
?S: should probably use memmove().
?S:.
?C:HAS_SAFE_BCOPY (SAFE_BCOPY):
?C: This symbol, if defined, indicates that the bcopy routine is available
?C: to copy potentially overlapping memory blocks. Normally, you should
?C: probably use memmove() or memcpy(). If neither is defined, roll your
?C: own version.
?C:.
?H:#$d_safebcpy HAS_SAFE_BCOPY /**/
?H:.
?F:!try
?LINT: set d_safebcpy
: can bcopy handle overlapping blocks?
echo " "
?X: assume the worst.
val="$undef"
case "$d_memmove" in
"$define")
```

```
 echo "I'll use memmove() instead of bcopy() for overlapping copies." ;;
*) case "$d_bcopy" in
 "$define")
  echo "Checking to see if bcopy() can do overlapping copies..." >&4
  $cat >try.c <<EOCP
#$i_memory I_MEMORY
#$i_stdlib I_STDLIB
#$i_string I_STRING
#$i_unistd I_UNISTD
EOCP
 $cat >>try.c <<'EOCP'
#include <stdio.h>
#ifdef I_MEMORY
#  include <memory.h>
#endif
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#ifdef I_STRING
#  include <string.h>
#else
#  include <strings.h>
#endif
#ifdef I_UNISTD
#  include <unistd.h>  /* Needed for NetBSD */
#endif
int main()
{
char buf[128], abc[128];
char *b;
int len;
int off;
int align;

/* Copy "abcde..." string to char abc[] so that gcc doesn't
  try to store the string in read-only memory. */
bcopy("abcdefghijklmnopqrstuvwxyz0123456789", abc, 36);

for (align = 7; align >= 0; align--) {
 for (len = 36; len; len--) {
  b = buf+align;
  bcopy(abc, b, len);
  for (off = 1; off <= len; off++) {
   bcopy(b, b+off, len);
   bcopy(b+off,
 b, len);
   if (bcmp(b, abc, len))
    exit(1);
```

```
  }
 }
}
exit(0);
}
EOCP
  set try
  if eval $compile_ok; then
   if $run ./try 2>/dev/null; then
    echo "Yes, it can."
    val="$define"
   else
    echo "It can't, sorry."
   fi
  else
   echo "(I can't compile the test program, so we'll assume not...)"
  fi
  ;;
 esac
 $rm_try
 ;;
esac
set d_safebcpy
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_safebcpy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_readv: Inlibc
?MAKE: -pick add $@ %<
?S:d_readv:
?S: This variable conditionally defines the HAS_READV symbol, which
?S: indicates to the C program that the readv() routine is available.
?S:.
?C:HAS_READV:
?C: This symbol, if defined, indicates that the readv routine is
?C: available to do gather reads.  You will also need <sys/uio.h>
?C: and there I_SYSUIO.
?C:.
```

```
?H:#$d_readv HAS_READV  /**/
?H:.
?LINT:set d_readv
: see if readv exists
set readv d_readv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_readv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:sysroot: Head
?MAKE: -pick add $@ %<
?S:sysroot:
?S: This variable is empty unless supplied by the Configure user.
?S: It can contain a path to an alternative root directory, under which
?S: headers and libraries for the compilation target can be found. This
?S: is generally used when cross-compiling using a gcc-like compiler.
?S:.
?LINT:extern cc
?LINT:extern cppflags
?LINT:change cppflags
?LINT:extern ccflags
?LINT:change ccflags
?LINT:extern ldflags
?LINT:change ldflags
?LINT:extern cccdlflags
?X: _sysroot is later used in ccflags, but we do not want it in config.sh
?T:var xxx path _sysroot
: Set 'sysroot' to change the logical root directory to your headers and libraries see man gcc
: This is primarily meant for cross-compile environments, and
 may fail to be useful in other cases
if test "X$sysroot" = X; then
   sysroot=""
else
   case "$cc" in
 *gcc*|*g++*)
     echo "Using $sysroot to find your headers and libraries, adding to ccflags"
     # _sysroot is used in places where we need --sysroot=foo
     # but using the rest of the flags could cause issues.
     _sysroot="--sysroot=$sysroot";
     case "$ccflags" in
```

```
  *sysroot*) ;;
  'undef'|*)
  ccflags="$ccflags $_sysroot"
    esac
    case "$ldflags" in
  *sysroot*) ;;
  'undef'|*)
  ldflags="$ldflags $_sysroot"
    esac
    case "$cppflags" in
  *sysroot*) ;;
  'undef'|*)
  cppflags="$cppflags $_sysroot"
    esac
    # lddlflags updated below in lddlflags section;
    # same with cccdlflags
    ;;
  esac

  # Adjust some defaults to also use $sysroot
  for var in xlibpth loclibpth locincpth glibpth; do
 eval xxx=\$$var
 eval $var=''
 for path in $xxx; do
    eval $var=\"\$$var $sysroot$path\"
 done
  done

fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/Sysroot.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Magic_h.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Magic_h.U,v $
?RCS: Revision 3.0.1.2  1993/11/10  17:32:58  ram
?RCS: patch14: forgot to mention Id in the dependencies
```

```
?RCS:
?RCS: Revision 3.0.1.1  1993/10/16  13:46:59  ram
?RCS: patch12: created for ?M: lines support (magic symbols)
?RCS:
?X:
?X: This file ends up producing the confmagic.h include, which is used to
?X: automagically remap some C symbols via cpp redefinitions.
?X:
?X: The file ./Magic_h below contains all the ?M: lines extracted out
 of all
?X: the units.  Metaconfig itself adds the final #endif statement.
?X: Note that this code isn't included into Configure, but must be shipped with.
?X:
?MAKE:Magic_h: Id Config_h
?MAKE: -pick cm_h_weed $@ %<
?MAKE: -pick cm_h_weed $@ ./Magic_h
?LINT:nocomment
/*
* This file was produced by running metaconfig and is intended to be included
* after config.h and after all the other needed includes have been dealt with.
*
* This file may be empty, and should not be edited. Rerun metaconfig instead.
* If you wish to get rid of this magic, remove this file and rerun metaconfig
* without the -M option.
*
*  $Id: Magic_h.U 1 2006-08-24 12:32:52Z rmanfredi $
*/

#ifndef _confmagic_h_
#define _confmagic_h_
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Magic_h.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, 2012 Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:intsize longsize shortsize: Assert Myread cat rm_try +cc +ccflags echo n c
?MAKE: -pick add $@ %<
```

```
?S:intsize:
?S: This variable contains the value of the INTSIZE symbol, which
?S: indicates to the C program how many bytes there are in an int.
?S:.
?S:longsize:
?S: This variable contains the value of the LONGSIZE symbol, which
?S: indicates to the C program how many bytes there are in a long.
?S:.
?S:shortsize:
?S: This variable contains the value of the SHORTSIZE symbol which
?S: indicates to the
 C program how many bytes there are in a short.
?S:.
?C:INTSIZE:
?C: This symbol contains the value of sizeof(int) so that the C
?C: preprocessor can make decisions based on it.
?C:.
?C:LONGSIZE:
?C: This symbol contains the value of sizeof(long) so that the C
?C: preprocessor can make decisions based on it.
?C:.
?C:SHORTSIZE:
?C: This symbol contains the value of sizeof(short) so that the C
?C: preprocessor can make decisions based on it.
?C:.
?H:#define INTSIZE $intsize
?H:#define LONGSIZE $longsize
?H:#define SHORTSIZE $shortsize
?H:.
?T:types t size var
?LINT: set shortsize intsize longsize
: check for lengths of integral types
echo " "
types=''
@if SHORTSIZE || shortsize
types="$types short"
@end
@if INTSIZE || intsize
types="$types int"
@end
@if LONGSIZE || longsize
types="$types long"
@end
for t in $types; do
 $echo $n "Checking to see how big your ${t}s are...$c" >&4
 for size in 2 4 8 16 error; do
  $cat >try.c <<EOCP
#include "static_assert.h"
```

```
$t foo;
int main()
{
 STATIC_ASSERT($size
 == sizeof(foo));
 return 0;
}
EOCP
  if $cc -c $ccflags try.c >/dev/null 2>&1; then break; fi
 done
 var=${t}size
 case "$size" in
 error)
  echo " cannot compute it." >&4
  case $t in
  short) dflt=2;;
  int) dflt=4;;
  long) dflt=4;;
  esac
  rp="What is the size of the \"$t\" type (in bytes)?"
  . ./myread
  eval $var="$ans"
  ;;
 *)
  echo " $size bytes." >&4
  eval $var=$size
  ;;
 esac
done
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/intsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
```

```
?RCS: $Log: d_attribut.U,v $
?RCS: Revision 3.0.1.3  1995/01/30  14:33:45  ram
?RCS: patch49: test C program now includes <stdio.h> (WED)
?RCS:
?RCS: Revision 3.0.1.2  1995/01/11  15:25:47  ram
?RCS: patch45: fixed typo in the d_attribut variable (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:08:55  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_attribut: Myread Oldconfig cat cc ccflags rm Setvar contains
?MAKE: -pick add $@ %<
?S:d_attribut
 (d_attrib):
?S: This variable conditionally defines HASATTRIBUTE, which
?S: indicates the C compiler can check for function attributes,
?S: such as printf formats.
?S:.
?C:HASATTRIBUTE ~ %< (GNUC_ATTRIBUTE_CHECK):
?C: This symbol indicates the C compiler can check for function attributes,
?C: such as printf formats. This is normally only supported by GNU cc.
?C:.
?H:?%<:#$d_attribut HASATTRIBUTE  /**/
?H:?%<:#ifndef HASATTRIBUTE
?H:?%<:#define __attribute__(_arg_)
?H:?%<:#endif
?H:.
?W:%<:__attribute__
?LINT:set d_attribut
?LINT:known __attribute__
: Look for GNU-cc style attribute checking
echo " "
echo "Checking whether your compiler can handle __attribute__ ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
void croak (char* pat,...) __attribute__((format(printf,1,2),noreturn));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $contains 'warning' attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't fully support __attribute__."
  val="$undef"
 else
  echo
 "Your C compiler supports __attribute__."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
```

```
 val="$undef"
fi
set d_attribut
eval $setvar
$rm -f attrib*
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_attribut.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_neterrno.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:20:29  ram
?RCS: patch36: forgot to initialize 'val' to an empty value (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:22:10  ram
?RCS: patch32: removed spurious echo
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:02:05  ram
?RCS: patch30: created by ADO
?RCS:
?MAKE:i_neterrno: Inhdr +cc +ccflags rm_try Setvar
?MAKE: -pick add $@ %<
?S:i_neterrno:
?S: This variable
 conditionally defines the I_NET_ERRNO symbol, which
?S: indicates to the C program that <net/errno.h> exists and should
?S: be included.
?S:.
?C:I_NET_ERRNO:
?C: This symbol, if defined, indicates that <net/errno.h> exists and
?C: should be included.
?C:.
?H:#$i_neterrno I_NET_ERRNO  /**/
?H:.
?LINT:set i_neterrno
```

```
: see if net/errno.h is available
val="
set net/errno.h val
eval $inhdr

: Unfortunately, it causes problems on some systems.  Arrgh.
case "$val" in
$define)
 cat > try.c <<'EOM'
#include <stdio.h>
#include <errno.h>
#include <net/errno.h>
int func()
{
 return ENOTSOCK;
}
EOM
 if $cc $ccflags -c try.c >/dev/null 2>&1; then
  echo "We'll be including <net/errno.h>." >&4
 else
  echo "We won't be including <net/errno.h>." >&4
  val="$undef"
 fi
 $rm_try
 ;;
esac
set i_neterrno
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_neterrno.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_lgamma: Inlibc
?MAKE: -pick add $@ %<
?S:d_lgamma:
?S: This variable conditionally defines the HAS_LGAMMA symbol, which
?S: indicates to the C program that the lgamma() routine is available
?S: for the log gamma function.  See also d_tgamma and d_lgamma_r.
?S:.
?C:HAS_LGAMMA:
?C: This symbol, if defined, indicates that the lgamma routine is
?C: available to do the log gamma function.  See also HAS_TGAMMA and
?C: HAS_LGAMMA_R.
```

```
?C:.
?H:#$d_lgamma HAS_LGAMMA  /**/
?H:.
?LINT:set d_lgamma
: see if lgamma exists
set lgamma d_lgamma
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_lgamma.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:ivdformat uvuformat uvoformat uvxformat uvXUformat \
 nvEUformat nvFUformat nvGUformat \
 nveformat nvfformat nvgformat: \
 ivsize longsize intsize shortsize \
 sPRId64 sPRIu64 sPRIo64 sPRIx64 sPRIXU64 \
 uselongdouble d_longdbl usequadmath d_PRIgldbl \
 sPRIEUldbl sPRIFUldbl sPRIGUldbl sPRIeldbl sPRIfldbl sPRIgldbl \
 test echo
?MAKE: -pick add $@ %<
?S:ivdformat:
?S: This variable contains the format string used for printing
?S: a Perl IV as a signed decimal integer.
?S:.
?S:uvuformat:
?S: This variable contains the format string used for printing
?S: a Perl UV as an unsigned decimal integer.
?S:.
?S:uvoformat:
?S: This variable contains the format string used for printing
?S: a Perl UV as an unsigned
 octal integer.
?S:.
?S:uvxformat:
?S: This variable contains the format string used for printing
?S: a Perl UV as an unsigned hexadecimal integer in lowercase abcdef.
?S:.
?S:uvXUformat:
?S: This variable contains the format string used for printing
```

?S: a Perl UV as an unsigned hexadecimal integer in uppercase ABCDEF.
?S:.
?S:nveformat:
?S: This variable contains the format string used for printing
?S: a Perl NV using %e-ish floating point format.
?S:.
?S:nvfformat:
?S: This variable contains the format string used for printing
?S: a Perl NV using %f-ish floating point format.
?S:.
?S:nvgformat:
?S: This variable contains the format string used for printing
?S: a Perl NV using %g-ish floating point format.
?S:.
?S:nvEUformat:
?S: This variable contains the format string used for printing
?S: a Perl NV using %E-ish floating point format.
?S:.
?S:nvFUformat:
?S: This variable contains the format string used for printing
?S: a Perl NV using %F-ish floating point format.
?S:.
?S:nvGUformat:
?S: This
variable contains the format string used for printing
?S: a Perl NV using %G-ish floating point format.
?S:.
?C:IVdf:
?C: This symbol defines the format string used for printing a Perl IV
?C: as a signed decimal integer.
?C:.
?C:UVuf:
?C: This symbol defines the format string used for printing a Perl UV
?C: as an unsigned decimal integer.
?C:.
?C:UVof:
?C: This symbol defines the format string used for printing a Perl UV
?C: as an unsigned octal integer.
?C:.
?C:UVxf:
?C: This symbol defines the format string used for printing a Perl UV
?C: as an unsigned hexadecimal integer in lowercase abcdef.
?C:.
?C:UVXf:
?C: This symbol defines the format string used for printing a Perl UV
?C: as an unsigned hexadecimal integer in uppercase ABCDEF.
?C:.
?C:NVef:

```
?C: This symbol defines the format string used for printing a Perl NV
?C: using %e-ish floating point format.
?C:.
?C:NVff:
?C: This symbol defines the format string used for printing a Perl NV
?C: using %f-ish floating point
 format.
?C:.
?C:NVgf:
?C: This symbol defines the format string used for printing a Perl NV
?C: using %g-ish floating point format.
?C:.
?C:NVEf:
?C: This symbol defines the format string used for printing a Perl NV
?C: using %E-ish floating point format.
?C:.
?C:NVFf:
?C: This symbol defines the format string used for printing a Perl NV
?C: using %F-ish floating point format.
?C:.
?C:NVGf:
?C: This symbol defines the format string used for printing a Perl NV
?C: using %G-ish floating point format.
?C:.
?H:#define IVdf  $ivdformat  /**/
?H:#define UVuf  $uvuformat  /**/
?H:#define UVof  $uvoformat  /**/
?H:#define UVxf  $uvxformat  /**/
?H:#define UVXf  $uvXUformat  /**/
?H:#define NVef  $nveformat  /**/
?H:#define NVff  $nvfformat  /**/
?H:#define NVgf  $nvgformat  /**/
?H:#define NVEf  $nvEUformat  /**/
?H:#define NVFf  $nvFUformat  /**/
?H:#define NVGf  $nvGUformat  /**/
?H:.
: Check format strings for internal types
echo " "
$echo "Checking the format strings to be used for Perl's
 internal types..." >&4

if $test X"$ivsize" = X8; then
 ivdformat="$sPRId64"
 uvuformat="$sPRIu64"
 uvoformat="$sPRIo64"
 uvxformat="$sPRIx64"
 uvXUformat="$sPRIXU64"
else
```

```
 if $test X"$ivsize" = X"$longsize"; then
  ivdformat="'ld'"
  uvuformat="'lu'"
  uvoformat="'lo'"
  uvxformat="'lx'"
  uvXUformat="'lX'"
 else
  if $test X"$ivsize" = X"$intsize"; then
   ivdformat="'d'"
   uvuformat="'u'"
   uvoformat="'o'"
   uvxformat="'x'"
   uvXUformat="'X'"
  else
   : far out
   if $test X"$ivsize" = X"$shortsize"; then
    ivdformat="'hd'"
    uvuformat="'hu'"
    uvoformat="'ho'"
    uvxformat="'hx'"
    uvXUformat="'hX'"
   fi
  fi
 fi
fi

if $test X"$usequadmath" = X"$define"; then
   nveformat="'Qe'"
   nvfformat="'Qf'"
   nvgformat="'Qg'"
   nvEUformat="'QE'"
   nvFUformat="'QF'"
   nvGUformat="'QG'"
else
   if $test X"$uselongdouble" = X"$define" -a X"$d_longdbl" = X"$define" -a X"$d_PRIgldbl" = X"$define"; then
 nveformat="$sPRIeldbl"
 nvfformat="$sPRIfldbl"
 nvgformat="$sPRIgldbl"
 nvEUformat="$sPRIEUldbl"
 nvFUformat="$sPRIFUldbl"
 nvGUformat="$sPRIGUldbl"
    else
 nveformat="'e'"
 nvfformat="'f'"
 nvgformat="'g'"
 nvEUformat="'E'"
 nvFUformat="'F'"
 nvGUformat="'G'"
```

```
   fi
fi

case "$ivdformat" in
") echo "$0: Fatal: failed to find format strings, cannot continue." >&4
   exit 1
   ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/perlxvf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Chk_whoami.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Chk_whoami.U,v $
?RCS: Revision 3.0  1993/08/18  12:04:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit makes sure we don't try to include whoami.h if uname() exists.
?X:
?MAKE:Chk_whoami: d_uname i_whoami
?MAKE: -pick add $@ %<
?LINT:change i_whoami
: weed out incompatibilities
case "$d_uname" in
 "$define") i_whoami="$undef" ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Chk_whoami.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Myread.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Myread.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  15:05:39  ram
?RCS: patch61: myread script now starts with a "startsh"
?RCS: patch61: miscellaneous fixes
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:14:22  ram
?RCS: patch45: added & escape allowing user to turn on -d from the prompt
?RCS:
?RCS: Revision 3.0.1.4  1994/10/31  09:48:04  ram
?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U
?RCS:
?RCS: Revision 3.0.1.3  1994/10/29
  15:56:20  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.2  1993/08/30  08:57:59  ram
?RCS: patch8: added new visible 'nostick' symbol, mainly for Finish.U
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:39:20  ram
?RCS: patch7: now sticks to the question when no default and empty answer
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to do a read.  It allows for shell escapes, default assignment and
?X: parameter evaluation.
?X:
?X: To use this unit, $rp and $dflt must hold the question and the
?X: default answer. The question will be printed by the script itself.
?X: Neither $rp nor $dflt is altered by the script.
?X:
?X: The myread script will stick to the question if no default is proposed
?X: and the user answer is empty, which prevents mistakes. However, at the
?X: end of Configure, there is an exception
 to this rule (Finish.U) where we
?X: set nostick to a non-empty value to allow the Return key to play its role!
?X:
?MAKE:Myread: Options startsh n c trnl
?MAKE: -pick add $@ %<
?V:ans:dflt rp nostick
```

```
?F:./myread
?T:COLUMNS xxxm rp dflt answ aok myecho
?LINT:change fastread
?X: Some shells (Ultrix) do not understand ${COLUMNS:-80}, sigh!
: compute the number of columns on the terminal for proper question formatting
case "$COLUMNS" in
") COLUMNS='80';;
esac

: set up the echo used in my read
?X:
?X: This variable is intended to be eval'ed. It will echo the two
?X: variables $rp and $dflt (provided this latter has a non null value).
?X: It is mainly used by the myread script to echo the questions.
?X:
?X: The $n and $c below are substituted before Loc does its silly echo check
?X: so don't put a $ on the echo below so we get builtin, even if $echo is
?X: pointing to /bin/echo.
?X:
myecho="case \"\$xxxm\" in
") echo $n \"\$rp $c\" >&4;;
*) case \"\$rp\" in
 ") echo $n \"[\$xxxm] $c\";;
 *)
  if
 test \`echo \"\$rp [\$xxxm]  \" | wc -c\` -ge $COLUMNS; then
   echo \"\$rp\" >&4
   echo $n \"[\$xxxm] $c\" >&4
  else
   echo $n \"\$rp [\$xxxm] $c\" >&4
  fi
  ;;
 esac;;
esac"

: now set up to do reads with possible shell escape and default assignment
cat <<EOSC >myread
$startsh
?X:
?X: Save value of default -- do not alter original in case of eval
?X:
xxxm=\$dflt
$myecho
?X:
?X: If there is no default, then stop, regardless of the value in fastread.
?X: In silent mode, no new-line is to be echoed if the question is empty,
?X: since this is used to wait for the "return" key.
?X:
```

```
ans='!'
case "\$fastread" in
yes) case "\$dflt" in
 ") ;;
 *) ans=";
  case "\$silent-\$rp" in
  true-) ;;
  *) echo " " >&4;;
  esac;;
 esac;;
*) case "\$silent" in
 true) case "\$rp" in
  ") ans=";;
  esac;;
 esac;;
esac
while expr "X\$ans" : "X!" >/dev/null; do
 read answ
?X:
?X: Run 'eval' on the answer, in order to do variable substitution, in case
?X: the user types $HOME or $WHATEVER.
 Variables must be evaluated now.
?X: Typing '\$HOME' won't currently prevent from substitution -- use '\\$HOME'
?X: The $1 .. $9 and $*, as well as $@, are available to refer to the
?X: default value.
?X:
 set x \$xxxm
 shift
 aok=''; eval "ans=\\"\$answ\\"" && aok=y
 case  "\$answ" in
?X:
?X: Use "!" and not a plain ! because of a bug in BSD 4.4 shell
?X: (reported by Wayne Davison)
?X: We must handle the shell escapes before dealing with possible variable
?X: substitution, since the shell we're launching in that case will be able
?X: to do it as well as we can -- RAM, 15/03/96
?X
 "!")
  sh 1>&4
  echo " "
  $myecho
  ;;
 !*)
  set x \`expr "X\$ans" : "X!\(.*\)\$"\`
  shift
  sh 1>&4 -c "\$*"
  echo " "
  $myecho
```

```
  ;;
 "\$ans")
  case "\$ans" in
?X:
?X: Answers starting with & are hooks allowing to dynamically turn on/off
?X: some Configure options. That's for the future. -- RAM, 09/01/95
?X: Today, we only recognize '& -d' to mean 'go on as if Configure -d, which
?X: is a hardwired
 behaviour compatible with our general scheme.
?X:
  \\&*)
   set x \`expr "X\$ans" : "X&\(.*\)\$"\`
   shift
   case "\$1" in
   -d)
    fastread=yes
    echo "(OK, I'll run with -d after this question.)" >&4
    ;;
   -*)
    echo "*** Sorry, \$1 not supported yet." >&4
    ;;
   esac
   $myecho
   ans=!
   ;;
  esac;;
 *)
  case "\$aok" in
  y)
   echo "*** Substitution done -- please confirm."
   xxxm="\$ans"
   ans=\`echo $n "\$ans$c" | tr '$trnl' ' '\`
   xxxm="\$ans"
   ans=!
   ;;
  *)
   echo "*** Error -- try again."
   ans=!
   ;;
  esac
  $myecho
  ;;
 esac
?X: Stick in myread if no default answer and nothing was answered
 case "\$ans\$xxxm\$nostick" in
 ")
  ans=!
  $myecho
```

```
  ;;
 esac
done
case "\$ans" in
") ans="\$xxxm";;
esac
EOSC
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Myread.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ttyname_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_ttyname_r ttyname_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_unistd extern_C
?MAKE: -pick add $@ %<
?S:d_ttyname_r:
?S: This variable conditionally defines the HAS_TTYNAME_R symbol,
?S: which indicates to the C program that the ttyname_r()
?S: routine is available.
?S:.
?S:ttyname_r_proto:
?S: This variable encodes the prototype of ttyname_r.
?S: It is zero if d_ttyname_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_ttyname_r
?S: is defined.
?S:.
?C:HAS_TTYNAME_R:
?C: This symbol, if defined, indicates that the ttyname_r routine
?C: is available to ttyname re-entrantly.
?C:.
?C:TTYNAME_R_PROTO:
?C: This
 symbol encodes the prototype of ttyname_r.
?C: It is zero if d_ttyname_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_ttyname_r
?C: is defined.
?C:.
?H:#$d_ttyname_r HAS_TTYNAME_R /**/
?H:#define TTYNAME_R_PROTO $ttyname_r_proto /**/
```

```
?H:.
?T:try hdrs d_ttyname_r_proto
: see if ttyname_r exists
set ttyname_r d_ttyname_r
eval $inlibc
case "$d_ttyname_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_unistd unistd.h"
 case "$d_ttyname_r_proto:$usethreads" in
 ":define") d_ttyname_r_proto=define
  set d_ttyname_r_proto ttyname_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_ttyname_r_proto" in
 define)
 case "$ttyname_r_proto" in
 "|0) try='int ttyname_r(int, char*, size_t);'
 ./protochk "$extern_C $try" $hdrs && ttyname_r_proto=I_IBW ;;
 esac
 case "$ttyname_r_proto" in
 "|0) try='int ttyname_r(int, char*, int);'
 ./protochk "$extern_C $try" $hdrs && ttyname_r_proto=I_IBI ;;
 esac
 case "$ttyname_r_proto"
 in
 "|0) try='char* ttyname_r(int, char*, int);'
 ./protochk "$extern_C $try" $hdrs && ttyname_r_proto=B_IBI ;;
 esac
 case "$ttyname_r_proto" in
 "|0) d_ttyname_r=undef
  ttyname_r_proto=0
  echo "Disabling ttyname_r, cannot determine prototype." >&4 ;;
 * ) case "$ttyname_r_proto" in
  REENTRANT_PROTO*) ;;
  *) ttyname_r_proto="REENTRANT_PROTO_$ttyname_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "ttyname_r has no prototype, not using it." >&4 ;;
  esac
  d_ttyname_r=undef
  ttyname_r_proto=0
  ;;
 esac
 ;;
```

```
*) ttyname_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_ttyname_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_vprintf.U,v 3.0 1993/08/18 12:07:59 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_vprintf.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:59  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_vprintf d_charvspr: Compile Guess cat Csym Setvar run rm_try \
 i_stdlib i_unistd i_stdarg i_varargs
?MAKE: -pick add $@ %<
?S:d_vprintf:
?S: This variable conditionally defines the HAS_VPRINTF symbol, which
?S: indicates to the C program that the vprintf() routine is available
?S: to printf with a pointer to an argument list.
?S:.
?S:d_charvspr:
?S: This
 variable conditionally defines CHARVSPRINTF if this system
?S: has vsprintf returning type (char*).  The trend seems to be to
?S: declare it as "int vsprintf()".
?S:.
?C:HAS_VPRINTF (VPRINTF):
?C: This symbol, if defined, indicates that the vprintf routine is available
?C: to printf with a pointer to an argument list.  If unavailable, you
?C: may need to write your own, probably in terms of _doprnt().
?C:.
?C:USE_CHAR_VSPRINTF (CHARVSPRINTF):
?C: This symbol is defined if this system has vsprintf() returning type
?C: (char*).  The trend seems to be to declare it as "int vsprintf()".  It
?C: is up to the package author to declare vsprintf correctly based on the
?C: symbol.
?C:.
```

```
?H:#$d_vprintf HAS_VPRINTF /**/
?H:#$d_charvspr USE_CHAR_VSPRINTF /**/
?H:.
?T:val2
?F:!try
?LINT:set d_vprintf d_charvspr
: see if vprintf exists
echo " "
if set vprintf val -f d_vprintf; eval $csym; $val; then
 echo 'vprintf() found.' >&4
 val="$define"
 $cat >try.c <<EOF
#$i_stdarg I_STDARG  /*
 Only one of these can be defined by i_varhrd */
#$i_varargs I_VARARGS

#$i_stdlib I_STDLIB
#$i_unistd I_UNISTD

#ifdef I_STDARG
#  include <stdarg.h>
#else /* I_VARARGS */
#  include <varargs.h>
#endif

#ifdef I_UNISTD
#  include <unistd.h>
#endif

#ifdef I_STDLIB
#  include <stdlib.h>
#endif

#include <stdio.h> /* vsprintf prototype */

#ifdef I_STDARG
void xxx(int n, ...)
{
   va_list args;
   char buf[10];
   va_start(args, n);
   exit((unsigned long)vsprintf(buf,"%s",args) > 10L);
}
int main() { xxx(1, "foo"); }

#else /* I_VARARGS */

xxx(va_alist)
```

```
va_dcl
{
   va_list args;
   char buf[10];
   va_start(args);
   exit((unsigned long)vsprintf(buf,"%s",args) > 10L);
}
int main() { xxx("foo"); }

#endif

EOF
 set try
 if eval $compile_ok; then
  if $run ./try; then
   echo "Your vsprintf() returns (int)." >&4
   val2="$undef"
  else
   echo "Your vsprintf() returns (char*)." >&4
   val2="$define"
  fi
 else
  echo 'I am unable to compile the vsprintf() test program.' >&4
  #
 We shouldn't get here.  If we do, assume the standard signature,
  # not the old BSD one.
  echo 'Guessing that vsprintf() returns (int).' >&4
  val2="$undef"
 fi
else
 echo 'vprintf() NOT found.' >&4
 val="$undef"
 val2="$undef"
fi
$rm_try
set d_vprintf
eval $setvar
val=$val2
set d_charvspr
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_vprintf.U
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:

```
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fp_class: Inlibc
?MAKE: -pick add $@ %<
?S:d_fp_class:
?S: This variable conditionally defines the HAS_FP_CLASS symbol, which
?S: indicates to the C program that the fp_class() routine is available.
?S:.
?C:HAS_FP_CLASS:
?C: This symbol, if defined, indicates that the fp_class routine is
?C: available to classify doubles.  Available for example in Digital UNIX.
?C: The returned values are defined in <math.h> and are:
?C:
?C: FP_SNAN           Signaling NaN (Not-a-Number)
?C: FP_QNAN           Quiet NaN (Not-a-Number)
?C: FP_POS_INF        +infinity
?C: FP_NEG_INF        -infinity
?C: FP_POS_NORM       Positive normalized
?C: FP_NEG_NORM       Negative normalized
?C: FP_POS_DENORM     Positive denormalized
?C: FP_NEG_DENORM
    Negative denormalized
?C: FP_POS_ZERO       +0.0 (positive zero)
?C: FP_NEG_ZERO       -0.0 (negative zero)
?C:.
?H:#$d_fp_class HAS_FP_CLASS  /**/
?H:.
?LINT:set d_fp_class
: see if fp_class exists
set fp_class d_fp_class
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fp_class.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:uidformat: uidsize uidsign ivsize uvsize longsize intsize shortsize \
```

```
 ivdformat uvuformat test echo
?MAKE: -pick add $@ %<
?S:uidformat:
?S: This variable contains the format string used for printing a Uid_t.
?S:.
?C:Uid_t_f:
?C: This symbol defines the format string used for printing a Uid_t.
?C:.
?H:#define Uid_t_f  $uidformat  /**/
?H:.
: Check format string for UID
echo " "
$echo "Checking the format string to be used for uids..." >&4

case "$uidsign" in
-1) if $test X"$uidsize" = X"$ivsize"; then
  uidformat="$ivdformat"
 else
  if $test X"$uidsize" = X"$longsize"; then
   uidformat="'ld'"
  else
   if $test X"$uidsize" = X"$intsize"; then
    uidformat="'d'"
   else
    if $test X"$uidsize"
 = X"$shortsize"; then
     uidformat="'hd'"
    fi
   fi
  fi
 fi
 ;;
*) if $test X"$uidsize" = X"$uvsize"; then
  uidformat="$uvuformat"
 else
  if $test X"$uidsize" = X"$longsize"; then
   uidformat="'lu'"
  else
   if $test X"$uidsize" = X"$intsize"; then
    uidformat="'u'"
   else
    if $test X"$uidsize" = X"$shortsize"; then
     uidformat="'hu'"
    fi
   fi
  fi
 fi
 ;;
```

```
esac

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/uidf.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: ptrsize.U,v 3.0.1.1 1994/10/29 16:28:19 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: ptrsize.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:28:19  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:37  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:ptrsize: cat rm_try Myread Compile run use64bitall i_stdlib d_quad
?MAKE: -pick add $@ %<
?S:ptrsize:
?S: This variable contains the value of the PTRSIZE symbol, which
?S: indicates to the C program how many bytes there are in a pointer.
?S:.
?C:PTRSIZE:
?C: This
 symbol contains the size of a pointer, so that the C preprocessor
?C: can make decisions based on it.  It will be sizeof(void *) if
?C: the compiler supports (void *); otherwise it will be
?C: sizeof(char *).
?C:.
?H:#define PTRSIZE $ptrsize  /**/
?H:.
?F:!try
?LINT:extern use64bitint
: check for length of pointer
echo " "
case "$ptrsize" in
")
 echo "Checking to see how big your pointers are..." >&4
 $cat >try.c <<EOCP
#include <stdio.h>
```

```
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
{
   printf("%d\n", (int)sizeof(void *));
   exit(0);
}
EOCP
 set try
 if eval $compile_ok; then
  ptrsize=`$run ./try`
  echo "Your pointers are $ptrsize bytes long."
 else
  dflt='4'
  echo "(I can't seem to compile the test program.  Guessing...)" >&4
  rp="What is the size of a pointer (in bytes)?"
  . ./myread
  ptrsize="$ans"
 fi
 ;;
esac
$rm_try
case "$use64bitall" in
"$define"|true|[yY]*)
 case "$ptrsize" in
 4) cat <<EOM >&4

*** You
 have chosen a maximally 64-bit build,
*** but your pointers are only 4 bytes wide.
*** Please rerun Configure without -Duse64bitall.
EOM
  case "$d_quad" in
  define)
   cat <<EOM >&4
*** Since you have quads, you could possibly try with -Duse64bitint.
EOM
   ;;
  esac
  cat <<EOM >&4
*** Cannot continue, aborting.

EOM

  exit 1
  ;;
```

```
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/ptrsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: startperl.U,v 3.0 1993/08/18 12:09:50 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: startperl.U,v $
?RCS: Perl5 version -- I always have d_portable=define.
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:startperl: cat Myread sharpbang initialinstalllocation test \
 versiononly version
?MAKE: -pick add $@ %<
?Y:TOP
?X: This is different from dist's standard startperl.U unit because
?X: we can't directly test #!/usr/local/bin/perl (or
 whatever) because
?X: we haven't built and installed perl yet.
?S:startperl:
?S: This variable contains the string to put on the front of a perl
?S: script to make sure (hopefully) that it runs with perl and not some
?S: shell. Of course, that leading line must be followed by the classical
?S: perl idiom:
?S:  eval 'exec perl -S $0 ${1+"$@"}'
?S:   if $running_under_some_shell;
?S: to guarantee perl startup should the shell execute the script. Note
?S: that this magic incantation is not understood by csh.
?S:.
?C:STARTPERL:
?C: This variable contains the string to put in front of a perl
?C: script to make sure (one hopes) that it runs with perl and not
?C: some shell.
```

```
?C:.
?H:#define STARTPERL "$startperl"  /**/
?H:.
: figure out how to guarantee perl startup
: XXX Note that this currently takes advantage of the bug that binexp ignores
:     the Configure -Dinstallprefix setting, which in turn means that under
:     relocatable @INC, initialinstalllocation is what binexp started as.
case
 "$startperl" in
")
 case "$sharpbang" in
 *!)
  $cat <<EOH

I can use the #! construct to start perl on your system. This will
make startup of perl scripts faster, but may cause problems if you
want to share those scripts and perl is not in a standard place
($initialinstalllocation/perl) on all your platforms. The alternative
is to force a shell by starting the script with a single ':' character.

EOH
  case "$versiononly" in
  "$define")      dflt="$initialinstalllocation/perl$version";;
  *)              dflt="$initialinstalllocation/perl";;
  esac
  rp='What shall I put after the #! to start up perl ("none" to not use #!)?'
  . ./myread
  case "$ans" in
  none) startperl=": # use perl";;
  *) startperl="#!$ans"
   if $test 30 -lt `echo "$ans" | wc -c`; then
    $cat >&4 <<EOM

WARNING:  Some systems limit the #! command to 32 characters.
If you experience difficulty running Perl scripts with #!, try
installing Perl in a directory with a shorter pathname.

EOM
   fi ;;
  esac
  ;;
 *)
 startperl=": # use perl"
  ;;
 esac
 ;;
esac
echo "I'll use $startperl to start perl scripts."
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/startperl.U
No license file was found, but licenses were detected in source scan.

Perl5 Metaconfig Units

Copyright (c) 1996-1998, Andy Dougherty
Copyright (c) 1999-2011, H.Merijn Brand
All rights reserved.

These units are the ones I used to build Configure and config_h.SH
in the Perl5 distribution.

The Configure script and config_h.SH file in the Perl distribution are
generated by a program called metaconfig. To run metaconfig, you will
need the full dist 3.0 distribution, maintained by Raphael Manfredi.
As of this writing, the current version is dist3.0, patchlevel 70.
Dist version dist-3.0@70.tar.gz is available on CPAN (the Comprehensive
Perl Archive Network) as
<http://www.perl.com/perl/CPAN/authors/id/RAM/dist-3.0@70.tar.gz>.

Instructions:

1. Unpack the full perl5 sources. Execute the following command

```
chmod +w Configure config_h.SH Porting/Glossary Porting/config*
```

2. Unpack the archive containing this file in the perl5 source
directory. This will create a directory
'U' under the perl5
sources. That directory will contain the metaconfig units for perl5.
This will also create two files in the perl5 source tree:
MANIFEST.new and .package.

3. Apply any patches to perl in the perl_patches/ directory.
(This may well be empty.)

4. Obtain and install dist-3.0pl70.

4. Apply any patches to dist under the dist_patches subdirectory.

5. From your main perl5 source directory, run packinit to
regenerate the .package file. IMPORTANT: Change the name and
address of the maintainer to your own name and address. I don't
want bug reports intended for you coming to me.

6. From your main perl5 source directory, run

metalint (or mlint)

and repair every failure it reports.

7. From your main perl5 source directory, run

metaconfig -m (or mconfig -m)

8. Edit U/mkglossary and/or U/mkgloss.pl to point to your dist-3.0pl70
location. (See comments at the top.)

9. Run the Porting/mksample script to update the contents
of the Porting/
subdirectory, or run all parts by hand. (see README)

NB: this script used to be U/mksample replaced by Porting/mksample;
see Porting/pumpkin.pod instead for current documentation on its
use.

10. Let me know about any changes, corrections, or enhancements.

Things to watch out for:

1. Future support of better random number generators should probably
start with the randfunc.U unit included here. It's currently
broken, but well commented and probably a good place to start.

Descriptions:

The units and other related files have been broken up into the following
directories:

acl/
This is an old patch to begin to detect and use ACL (access
control list) file protection schemes.

compline/
These are similar to the standard units, but I have modified them
to have a more uniform compile command line, usually using the new
Compile.U unit. I have submitted these for inclusion into the
regular dist distribution. (The ccflags.U
unit is actually
perl-specific since it mentions -DDEBUGGING and -DPOSIX_SOURCE,
but that's the only place it is perl-specific.)

dist_patches/

These are patches to dist that must be applied before it is built
and installed. I have submitted these for inclusion in the
regular dist distribution.

modified/
These are modified versions of the standard units. Also included in
this directory are new units that are clearly derived from existing
units. I have submitted these for inclusion in the regular dist
distribution.

perl/
These are specific to perl. Some are heavily derived from
original dist units, and are marked as such. Others are original.

perl_patches/
These are patches to the perl source. This directory
should ordinarily be empty, but there may have been drift between
the standard version of perl and the one associated with these
units.

protos/
These are units modified to use the new Hasproto.U or Protochk.U
units to check for prototypes. I have submitted these for inclusion
into the regular dist distribution.

target/
This is the very, very beginning of cross-compiler support.
It doesn't work yet, and many standard units will need
modification.

typedefs/
These are standard units modified to use the modified Typedef.U
unit to check for typedefs. (The modified Typdef.U includes a
function to avoid unnecessary prompts if the typdef being searched
for exists.) I have submitted these for inclusion into the
regular dist distribution.

threads/
These are specific to threading perl.

Copyright Information:

Unless otherwise indicated, the files contained in this
distribution are:

Copyright (c) 1996-1998, Andy Dougherty

The following licensing terms apply to all files contained in

this distribution:

You may distribute the files contained in this distribution
under the terms of either

a) the "Artistic License" which comes with Perl,
or

b) the "Artistic License" which comes with dist, or

c) the GNU General Public License as published by the Free
Software Foundation; either version 1, or (at your option) any
later version (see the file "Copying" that comes with the
Perl distribution).

Which one to use is your choice.

The units in the "modified" directory have been derived from units
associated with the metaconfig program of Raphael Manfredi's "dist"
distribution. These units list Raphael Manfredi as the Copyright holder.
dist is distributed under a modified version of the Perl Artistic License.
Clause 7 of this modified license as contained in dist-3.0-pl60 provides:

7. You may reuse parts of this Package in your own programs, provided
that you explicitly state where you got them from, in the source code
(and, left to your courtesy, in the documentation), duplicating
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to place them in the Public Domain--this will apply only within the
context of your package.

In accordance with this clause, the versions of these units
contained here are made available under the same terms as the
rest of the units.

If you have any questions about the use of these units or about
the differences between these units and the standard versions, please
feel free to ask.

Andy Dougherty doughera@lafayette.edu
Dept. of Physics
Lafayette College
Easton, PA 18042-1782

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/README.dist
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_dbminitproto: Hasproto i_dbm
?MAKE: -pick add $@ %<
?S:d_dbminitproto:
?S: This variable conditionally defines the HAS_DBMINIT_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the dbminit() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_DBMINIT_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the dbminit() function.  Otherwise, it is up
?C: to the program to supply one.  A good guess is
?C:  extern
 int dbminit(char *);
?C:.
?H:#$d_dbminitproto HAS_DBMINIT_PROTO /**/
?H:.
?LINT:set d_dbminitproto
: see if prototype for dbminit is available
echo " "
set d_dbminitproto dbminit $i_dbm dbm.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_dbminitproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: rootid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: rootid.U,v $
?RCS: Revision 3.0.1.1  1995/01/30  14:45:36  ram
?RCS: patch49: now only prints a single empty line when outputting something
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:rootid: sed
?MAKE: -pick add $@ %<
?S:rootid:
?S: This variable contains the eventual value of the ROOTID symbol,
?S: which is the uid of root.
?S:.
?C:ROOTID:
?C: This symbol contains the uid of root, normally
 0.
?C:.
?H:#define ROOTID $rootid  /**/
?H:.
: determine root id
rootid=`$sed -e "/^root:/{s/^[^:]*:[^:]*:\([^:]*\).*'''$'''/\1/" -e "q" -e "}" -e "d" </etc/passwd`
case "$rootid" in
") rootid=0 ;;
*) echo " "; echo "Root uid = $rootid" >&4 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/rootid.U
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```
?RCS: $Id$
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: doublesize.U,v $
```

```
?RCS: Revision 3.0.1.1  1994/10/29  16:17:06  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:06  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:doublesize: cat rm_try Myread +cc +ccflags
?MAKE: -pick add $@ %<
?S:doublesize:
?S: This variable contains the value of the DOUBLESIZE symbol, which
?S: indicates to the C program how many bytes there are in a double.
?S:.
?C:DOUBLESIZE:
?C: This symbol contains the
 size of a double, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define DOUBLESIZE $doublesize  /**/
?H:.
?F:!try
: check for length of double
echo " "
case "$doublesize" in
")
 echo "Checking to see how big your double precision numbers are..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
 printf("%d\n", sizeof(double));
}
EOCP
 if $cc $ccflags -o try try.c >/dev/null 2>&1 ; then
  dflt=`./try`
 else
  dflt='8'
  echo "(I can't seem to compile the test program.  Guessing...)"
 fi
 ;;
*)
 dflt="$doublesize"
 ;;
esac
rp="What is the size of a double precision number (in bytes)?"
. ./myread
doublesize="$ans"
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/doublesize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endpent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_endpent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_endpent: Inlibc
?MAKE: -pick add $@ %<
?S:d_endpent:
?S: This variable conditionally defines HAS_ENDPROTOENT if endprotoent() is
?S: available to close whatever was being used for protocol queries.
?S:.
?C:HAS_ENDPROTOENT:
?C: This symbol, if defined, indicates that the endprotoent() routine is
?C: available to close whatever was being used
 for protocol queries.
?C:.
?H:#$d_endpent HAS_ENDPROTOENT  /**/
?H:.
?LINT:set d_endpent
: see if endprotoent exists
set endprotoent d_endpent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_endpent.U
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```
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```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sig_name.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  16:21:25  ram
?RCS: patch61: brand new algorithm for sig_name and (new!) sig_num
?RCS:
?RCS: Revision 3.0.1.4  1995/07/25  14:14:54  ram
?RCS: patch56: added <asm/signal.h> lookup for linux
?RCS:
?RCS: Revision 3.0.1.3  1995/05/12  12:24:11  ram
?RCS: patch54: now looks for <linux/signal.h> too (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20  07:06:57  ram
?RCS: patch30: final echo was missing to close awk-printed string
?RCS:
?RCS: Revision 3.0.1.1
  1994/05/06  15:17:55  ram
?RCS: patch23: signal list now formatted to avoid scroll-ups (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:sig_name sig_name_init sig_num sig_num_init sig_count sig_size: \
 awk Signal Oldconfig rm
?MAKE: -pick add $@ %<
?S:sig_name:
?S: This variable holds the signal names, space separated. The leading
?S: SIG in signal name is removed.  A ZERO is prepended to the
?S: list.  This is currently not used.
?S:.
?S:sig_name_init:
?S: This variable holds the signal names, enclosed in double quotes and
?S: separated by commas, suitable for use in the SIG_NAME definition
?S: below.  A "ZERO" is prepended to the list, and the list is
?S: terminated with a plain 0.  The leading SIG in signal names
?S: is removed. See sig_num.
?S:.
?S:sig_num:
?S: This variable holds the signal numbers, space separated. A ZERO is
?S: prepended to the list (corresponding to the fake SIGZERO), and
?S: the list is terminated
 with a 0.  Those numbers correspond to
?S: the value of the signal listed in the same place within the
?S: sig_name list.
?S:.
?S:sig_num_init:
```

```
?S: This variable holds the signal numbers, enclosed in double quotes and
?S: separated by commas, suitable for use in the SIG_NUM definition
?S: below.  A "ZERO" is prepended to the list, and the list is
?S: terminated with a plain 0.
?S:.
?S:sig_count (sig_name.U):
?S:  This variable holds a number larger than the largest valid
?S:  signal number.  This is usually the same as the NSIG macro.
?S:.
?S:sig_size:
?S:  This variable contains the number of elements of the sig_name
?S:  and sig_num arrays, excluding the final NULL entry.
?S:.
?C:SIG_NAME:
?C: This symbol contains a list of signal names in order of
?C: signal number. This is intended
?C: to be used as a static array initialization, like this:
?C:  char *sig_name[] = { SIG_NAME };
?C: The signals in the list are separated with commas, and each signal
?C: is surrounded by double
 quotes. There is no leading SIG in the signal
?C: name, i.e. SIGQUIT is known as "QUIT".
?C: Gaps in the signal numbers (up to NSIG) are filled in with NUMnn,
?C: etc., where nn is the actual signal number (e.g. NUM37).
?C: The signal number for sig_name[i] is stored in sig_num[i].
?C: The last element is 0 to terminate the list with a NULL.  This
?C: corresponds to the 0 at the end of the sig_num list.
?C:.
?C:SIG_NUM:
?C: This symbol contains a list of signal numbers, in the same order as the
?C: SIG_NAME list. It is suitable for static array initialization, as in:
?C:  int sig_num[] = { SIG_NUM };
?C: The signals in the list are separated with commas, and the indices
?C: within that list and the SIG_NAME list match, so it's easy to compute
?C: the signal name from a number or vice versa at the price of a small
?C: dynamic linear lookup.
?C: Duplicates are allowed, but are moved to the end of the list.
?C: The signal number corresponding to sig_name[i] is sig_number[i].
?C: if (i
 < NSIG) then sig_number[i] == i.
?C: The last element is 0, corresponding to the 0 at the end of
?C: the sig_name list.
?C:.
?C:SIG_COUNT:
?C: This variable contains a number larger than the largest
?C: signal number.  This is usually the same as the NSIG macro.
?C:.
?C:SIG_SIZE:
```

```
?C: This variable contains the number of elements of the sig_name
?C: and sig_num arrays, excluding the final NULL entry.
?C:.
?H:#define SIG_NAME $sig_name_init  /**/
?H:#define SIG_NUM  $sig_num_init  /**/
?H:#define SIG_COUNT $sig_count   /**/
?H:#define SIG_SIZE $sig_size   /**/
?H:.
?T:i doinit
?F:!= !signal_cmd
?X: signal.cmd creates a file  signal.lst which has two columns:
?X: NAME  number, e.g.
?X:  HUP 1
?X: The list is sorted on signal number, with duplicates moved to
?X: the end..
: generate list of signal names
echo " "
case "$sig_name_init" in
") doinit=yes ;;
*)  case "$sig_num_init" in
   "|*,*) doinit=yes ;;
   esac ;;
esac
case "$doinit" in
yes)
 echo "Generating a list of signal names and
 numbers..." >&4
 . ./signal_cmd
 sig_count=`$awk '/^NSIG/ { printf "%d", $2 }' signal.lst`
 sig_name=`$awk 'BEGIN { printf "ZERO " }
   !/^NSIG/ { printf "%s ", $1 }' signal.lst`
 sig_num=`$awk  'BEGIN { printf "0 " }
   !/^NSIG/ { printf "%d ", $2 }' signal.lst`
 sig_name_init=`$awk 'BEGIN { printf "\"ZERO\", " }
        !/^NSIG/ { printf "\"%s\", ", $1 }
        END { printf "0\n" }' signal.lst`
 sig_num_init=`$awk  'BEGIN { printf "0, " }
        !/^NSIG/ { printf "%d, ", $2}
        END { printf "0\n"}' signal.lst`
 ;;
esac
echo "The following $sig_count signals are available:"
echo " "
echo $sig_name | $awk \
'BEGIN { linelen = 0 }
{
 for (i = 1; i <= NF; i++) {
  name = "SIG" $i " "
```

```
  linelen = linelen + length(name)
  if (linelen > 70) {
   printf "\n"
   linelen = length(name)
  }
  printf "%s", name
 }
 printf "\n"
}'
sig_size=`echo $sig_name | awk '{print NF}'`
$rm -f signal signal.c signal.awk signal.lst signal_cmd
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/sig_name.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cf_email.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:05:06  ram
?RCS: patch16: created
?RCS:
?RCS:
?MAKE:cf_email: cat cf_by test myhostname mydomain Oldconfig Myread
?MAKE: -pick add $@ %<
?S:cf_email:
?S: Electronic mail address of the person who ran Configure. This can be
?S: used by units that require the user's e-mail, like MailList.U.
?S:.
?T:cont maildomain
?LINT:extern MAILDOMAIN
: determine the e-mail address of the user who is running us
$cat <<EOM

I need to get your e-mail address
 in Internet format if possible, i.e.
something like user@host.domain. Please answer accurately since I have
no easy means to double check it. The default value provided below
is most probably close to reality but may not be valid from outside
```

```
your organization...

EOM
cont=x
while test "$cont"; do
 case "$MAILDOMAIN" in
 ")
  if $test -s /etc/mailname; then
   maildomain=`$cat /etc/mailname`
  else
   maildomain="$myhostname$mydomain"
  fi
  ;;
 *)  maildomain="$MAILDOMAIN";;
 esac
 case "$cf_email" in
 ") dflt="$cf_by@$maildomain";;
 *)  dflt="$cf_email";;
 esac
 rp='What is your e-mail address?'
 . ./myread
 cf_email="$ans"
 case "$cf_email" in
 *@*.*) cont=" ;;
 *)
  rp='Address does not look like an Internet one.  Use it anyway?'
  case "$fastread" in
  yes) dflt=y ;;
  *) dflt=n ;;
  esac
  . ./myread
  case "$ans" in
  y*) cont=" ;;
  *) echo " " ;;
  esac
  ;;
 esac
done
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/cf_email.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strerror.U,v 3.0.1.3 1994/05/13 15:20:27 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
```

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_strerror.U,v $
?RCS: Revision 3.0.1.3  1994/05/13  15:20:27  ram
?RCS: patch27: now uses new macro support for cleaner Strerror def
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  14:58:26  ram
?RCS: patch23: renamed strerror into Strerror to protect name space (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:08:56  ram
?RCS: patch16: protected code looking for sys_errnolist[] with @if
?RCS: patch16: added default value for d_sysernlst
?RCS:
?RCS: Revision
 3.0  1993/08/18  12:07:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_syserrlst d_sysernlst: Csym Findhdr
?MAKE: -pick add $@ %<
?S:d_syserrlst:
?S: This variable conditionally defines HAS_SYS_ERRLIST if sys_errlist[] is
?S: available to translate error numbers to strings.
?S:.
?S:d_sysernlst:
?S: This variable conditionally defines HAS_SYS_ERRNOLIST if sys_errnolist[]
?S: is available to translate error numbers to the symbolic name.
?S:.
?C:HAS_SYS_ERRLIST (SYSERRLIST):
?C: This symbol, if defined, indicates that the sys_errlist array is
?C: available to translate error numbers to strings. The extern int
?C: sys_nerr gives the size of that table.
?C:.
?C:HAS_SYS_ERRNOLIST (SYSERRNOLIST):
?C: This symbol, if defined, indicates that the sys_errnolist array is
?C: available to translate an errno code into its symbolic name (e.g.
?C: ENOENT). The extern int sys_nerrno gives the size of that table.
?C:.
?H:#$d_syserrlst HAS_SYS_ERRLIST /**/
?H:#$d_sysernlst HAS_SYS_ERRNOLIST /**/
?H:.
?D:d_sysernlst=''
?T:val
:
```

```
 see if sys_errlist[] exists
echo " "
if test "X$d_syserrlst" = X; then
 if set sys_errlist val -a d_syserrlst; eval $csym; $val; then
  echo "You have sys_errlist[], so we could roll our own strerror."
  d_syserrlst="$define"
 else
  echo "You don't have sys_errlist[], so strerror() is welcome."
  d_syserrlst="$undef"
 fi
fi
@if d_sysernlst || HAS_SYS_ERRNOLIST
if set sys_errnolist val -a d_sysernlst; eval $csym; $val; then
 echo "(Symbolic error codes can be fetched via the sys_errnolist[] array.)"
 d_sysernlst="$define"
else
 echo "(However, I can't extract the symbolic error code out of errno.)"
 d_sysernlst="$undef"
fi
@end
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_strerror.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_time.U,v 3.0 1993/08/18 12:08:45 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: i_time.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit finds which "time" include to use. If 'timezone' is used by the
?X: program, we also try to find which header should be included. Eventually,
?X: we look for <sys/select.h> if I_SYSSELECT is used, to get struct timeval.
?X:
?MAKE:i_time i_systime i_systimek timeincl d_tm_tm_zone d_tm_tm_gmtoff: \
 Compile cat \
 contains rm_try echo n
```

```
 c +i_sysselct Findhdr Hasfield i_stdlib
?MAKE: -pick add $@ %<
?S:i_time:
?S: This variable unconditionally defines I_TIME, which indicates
?S: to the C program that it should include <time.h>.
?S:.
?S:i_systime:
?S: This variable conditionally defines I_SYS_TIME, which indicates
?S: to the C program that it should include <sys/time.h>.
?S:.
?S:i_systimek:
?S: This variable conditionally defines I_SYS_TIME_KERNEL, which
?S: indicates to the C program that it should include <sys/time.h>
?S: with KERNEL defined.
?S:.
?S:timeincl:
?S: This variable holds the full path of the included time header(s).
?S:.
?S:d_tm_tm_zone:
?S: This variable conditionally defines HAS_TM_TM_ZONE, which indicates
?S: to the C program that the struct tm has the tm_zone field.
?S:.
?S:d_tm_tm_gmtoff:
?S: This variable conditionally defines HAS_TM_TM_GMTOFF, which indicates
?S: to the C program that the struct tm has the tm_gmtoff field.
?S:.
?C:I_TIME (USE_TIME_H):
?C: This symbol is always defined, and indicates
 to the C program that
?C: it should include <time.h>.
?C:.
?C:I_SYS_TIME (I_SYSTIME USE_SYS_TIME_H NO_TIME_WITH_SYS_TIME):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/time.h>.
?C:.
?C:I_SYS_TIME_KERNEL (I_SYSTIMEKERNEL):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/time.h> with KERNEL defined.
?C:.
?C:HAS_TM_TM_ZONE:
?C: This symbol, if defined, indicates to the C program that
?C: the struct tm has a tm_zone field.
?C:.
?C:HAS_TM_TM_GMTOFF:
?C: This symbol, if defined, indicates to the C program that
?C: the struct tm has a tm_gmtoff field.
?C:.
?H:#$i_time I_TIME  /**/
```

```
?H:#$i_systime I_SYS_TIME  /**/
?H:#$i_systimek I_SYS_TIME_KERNEL  /**/
?H:#$d_tm_tm_zone HAS_TM_TM_ZONE  /**/
?H:#$d_tm_tm_gmtoff HAS_TM_TM_GMTOFF  /**/
?H:.
?W::timezone
?T:xselect flags sysselect s_timeval s_timezone
?LINT:change i_sysselct
?LINT:set d_tm_tm_zone
?LINT:set d_tm_tm_gmtoff
: see if we should include sys/time.h
echo
 " "
i_time='define'
if test "X$timeincl" = X; then
 echo "Testing to see if we should include <sys/time.h>." >&4
 $echo $n "I'm now running the test program...$c"
 $cat >try.c <<EOCP
#include <sys/types.h>
#include <time.h>
#ifdef I_SYSTIME
#ifdef SYSTIMEKERNEL
#define KERNEL
#endif
#include <sys/time.h>
#endif
#ifdef I_SYSSELECT
#include <sys/select.h>
#endif
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
{
 struct tm foo;
#ifdef S_TIMEVAL
 struct timeval bar;
#endif
#ifdef S_TIMEZONE
 struct timezone tzp;
#endif
 if (foo.tm_sec == foo.tm_sec)
  exit(0);
#ifdef S_TIMEVAL
 if (bar.tv_sec == bar.tv_sec)
  exit(0);
#endif
```

```
 exit(1);
}
EOCP
 flags=''
@if I_SYSSELECT
 if $contains 'timeval.*{' `./findhdr sys/select.h` >/dev/null 2>&1; then
  xselect='-DI_SYSSELECT'
 else
  xselect=''
 fi
@end
@if timezone
 for s_timezone in '-DS_TIMEZONE' ''; do
@else
 s_timezone=''
@end
?X: Every package is given a try with 'struct timeval'
@if I_SYSSELECT
 for sysselect in $xselect
 ''; do
@else
 sysselect=''
@end
 for s_timeval in '-DS_TIMEVAL' ''; do
 for i_systimek in '' '-DSYSTIMEKERNEL'; do
 for i_systime in '-DI_SYSTIME' ''; do
  case "$flags" in
  '') $echo $n ".$c"
   set try $i_systime $i_systimek $sysselect $s_timeval $s_timezone
   if eval $compile; then
    set X $i_systime $i_systimek $sysselect $s_timeval
    shift
    flags="$*"
    echo ' '
    $echo $n "Succeeded with $flags$c"
   fi
   ;;
  esac
 done
 done
 done
@if I_SYSSELECT
 done
@end
@if timezone
 done
@end
 timeincl=''
```

```
 echo " "
 case "$flags" in
 *SYSTIMEKERNEL*) i_systimek="$define"
  timeincl=`./findhdr sys/time.h`
  echo "We'll include <sys/time.h> with KERNEL defined." >&4;;
 *) i_systimek="$undef";;
 esac
 case "$flags" in
 *I_SYSTIME*) i_systime="$define"
  timeincl=`./findhdr sys/time.h`" $timeincl"
  echo "We'll include <sys/time.h>." >&4;;
 *) i_systime="$undef";;
 esac
@if I_SYSSELECT
 case "$flags" in
 *I_SYSSELECT*) i_sysselct="$define"
  timeincl=`./findhdr sys/select.h`"
 $timeincl"
  echo "We'll also include <sys/select.h> to get struct timeval." >&4;;
 *) case "$i_sysselct" in
  ") i_sysselct="$undef";;
  esac
 esac
@end
 $rm_try
fi
: see if struct tm knows about tm_zone
case "$i_systime$i_time" in
*$define*)
	echo " "
	echo "Checking to see if your struct tm has tm_zone field..." >&4
	set d_tm_tm_zone tm tm_zone $i_systime sys/time.h $i_time time.h
	eval $hasfield
	;;
*)	val="$undef"
	set d_tm_tm_zone
	eval $setvar
	;;
esac
case "$d_tm_tm_zone" in
"$define")	echo "Yes, it does."	;;
*)		echo "No, it doesn't." ;;
esac
: see if struct tm knows about tm_gmtoff
case "$i_systime$i_time" in
*$define*)
	echo " "
	echo "Checking to see if your struct tm has tm_gmtoff field..." >&4
```

```
	set d_tm_tm_gmtoff tm tm_gmtoff $i_systime sys/time.h $i_time time.h
	eval $hasfield
	;;
*)	val="$undef"
	set d_tm_tm_gmtoff
	eval $setvar

  ;;
esac
case "$d_tm_tm_gmtoff" in
"$define")	echo "Yes, it does."	;;
*)		echo "No, it doesn't." ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/i_time.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_sbrkproto: Hasproto i_unistd
?MAKE: -pick add $@ %<
?S:d_sbrkproto:
?S: This variable conditionally defines the HAS_SBRK_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the sbrk() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_SBRK_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the sbrk() function.  Otherwise, it is up
?C: to the program to supply one.  Good guesses are
?C:  extern void* sbrk(int);
?C:  extern
 void* sbrk(size_t);
?C:.
?H:#$d_sbrkproto HAS_SBRK_PROTO /**/
?H:.
?LINT:set d_sbrkproto
```

```
: see if prototype for sbrk is available
echo " "
set d_sbrkproto sbrk $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_sbrkproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_sigprocmask: Inlibc
?MAKE: -pick add $@ %<
?S:d_sigprocmask:
?S: This variable conditionally defines HAS_SIGPROCMASK
?S: if sigprocmask() is available to examine or change the signal mask
?S: of the calling process.
?S:.
?C:HAS_SIGPROCMASK:
?C: This symbol, if defined, indicates that the sigprocmask
?C: system call is available to examine or change the signal mask
?C: of the calling process.
?C:.
?H:#$d_sigprocmask HAS_SIGPROCMASK  /**/
?H:.
?LINT:set d_sigprocmask
: see if sigprocmask exists
set sigprocmask d_sigprocmask
eval
 $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_sigprocmask.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysselct.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysselct.U,v $
?RCS: Revision 3.0.1.1  1993/08/25  14:01:33  ram
?RCS: patch6: added default for i_sysselct
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Look wether <sys/select.h> exists
?X:
?MAKE:i_sysselct: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysselct:
?S: This variable conditionally defines I_SYS_SELECT, which indicates
?S: to the C program that it should include <sys/select.h> in
 order to
?S: get the definition of struct timeval.
?S:.
?C:I_SYS_SELECT (I_SYSSELECT):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/select.h> in order to get definition of struct timeval.
?C:.
?H:#$i_sysselct I_SYS_SELECT /**/
?H:.
?D:i_sysselct="
?LINT:set i_sysselct
: see if sys/select.h has to be included
set sys/select.h i_sysselct
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sysselct.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pause.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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```

```
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_pause.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:09:54  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_pause: Inlibc
?MAKE: -pick add $@ %<
?S:d_pause:
?S: This variable conditionally defines the HAS_PAUSE symbol, which
?S: indicates to the C program that the pause() routine is available
?S: to suspend a process until a signal is received.
?S:.
?C:HAS_PAUSE :
?C: This symbol,
 if defined, indicates that the pause routine is
?C: available to suspend a process until a signal is received.
?C:.
?H:#$d_pause HAS_PAUSE  /**/
?H:.
?LINT:set d_pause
: see if pause exists
set pause d_pause
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_pause.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2017, Karl Williamson
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_wcrtomb: Inlibc
?MAKE: -pick add $@ %<
?S:d_wcrtomb:
?S: This variable conditionally defines the HAS_WCRTOMB symbol if the
?S: wcrtomb() routine is available to be used to convert a wide character
?S: into a multi-byte character.
```

```
?S:.
?C:HAS_WCRTOMB:
?C: This symbol, if defined, indicates that the wcrtomb routine is
?C: available to convert a wide character into a multi-byte character.
?C:.
?H:#$d_wcrtomb HAS_WCRTOMB /**/
?H:.
?LINT: set d_wcrtomb
: see if wcrtomb exists
set wcrtomb d_wcrtomb
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_wcrtomb.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_msgrcv.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msgrcv.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:40  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_msgrcv: Inlibc
?MAKE: -pick add $@ %<
?S:d_msgrcv:
?S: This variable conditionally defines the HAS_MSGRCV symbol, which
?S: indicates to the C program that the msgrcv() routine is available.
?S:.
?C:HAS_MSGRCV:
?C: This symbol, if defined, indicates that the msgrcv() routine is
?C: available to extract a message from the message queue.
?C:.
?H:#$d_msgrcv
 HAS_MSGRCV  /**/
?H:.
?LINT:set d_msgrcv
: see if msgrcv exists
set msgrcv d_msgrcv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_msgrcv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: lseektype.U,v 3.0.1.1 1994/08/29 16:30:10 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: lseektype.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:30:10  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lseektype lseeksize: Myread Typedef cat Compile rm_try longsize run
?MAKE: -pick add $@ %<
?S:lseektype:
?S: This variable defines lseektype to be something like off_t, long,
?S: or whatever type is used to declare
 lseek offset's type in the
?S: kernel (which also appears to be lseek's return type).
?S:.
?S:lseeksize:
?S: This variable defines lseektype to be something like off_t, long,
?S: or whatever type is used to declare lseek offset's type in the
?S: kernel (which also appears to be lseek's return type).
?S:.
?C:Off_t (LSEEKTYPE):
?C: This symbol holds the type used to declare offsets in the kernel.
?C: It can be int, long, off_t, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?C:LSEEKSIZE:
?C: This symbol holds the number of bytes used by the Off_t.
?C:.
?C:Off_t_size:
?C: This symbol holds the number of bytes used by the Off_t.
?C:.
?H:#define Off_t $lseektype  /* <offset> type */
```

```
?H:#define LSEEKSIZE $lseeksize  /* <offset> size */
?H:#define Off_t_size $lseeksize /* <offset> size */
?H:.
?F:!try
?LINT:set lseektype
: see what type lseek is declared as in the kernel
rp="What is the type used for lseek's offset on this system?"
set off_t lseektype
 long stdio.h sys/types.h
eval $typedef_ask

echo " "
echo "Checking to see how big your file offsets are..." >&4
$cat >try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
int main()
{
   printf("%d\n", (int)sizeof($lseektype));
   return(0);
}
EOCP
set try
if eval $compile_ok; then
 lseeksize=`$run ./try`
 echo "Your file offsets are $lseeksize bytes long."
else
 dflt=$longsize
 echo " "
 echo "(I can't seem to compile the test program.  Guessing...)"
 rp="What is the size of your file offsets (in bytes)?"
 . ./myread
 lseeksize="$ans"
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/lseektype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_raster.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_raster.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_raster rasterlib: cat test Setvar Myread Oldconfig
?MAKE: -pick add $@ %<
?S:d_raster:
?S: Conditionally defines RASTER_TEK if this is a raster tech machine.
?S:.
?S:rasterlib (d_rasterlib):
?S: Set to the needed compile flag if this is a raster tech machine.
?S: It is up to the Makefile to use this variable.
?S:.
?C:RASTER_TEK:
?C: Defined
 if this is a rastertech machine.
?C:.
?H:#$d_raster RASTER_TEK /**/
?H:.
?LINT:set d_raster
: See if this is a raster tech machine.
val="$undef"
rasterlib="
if $test -r /dev/mirage; then
 $cat <<'EOM'

You seem to have a mirage device... this is normally associated with a raster
technologies graphics workstation. If this is right, you may want to use raster
tech in this program.

EOM
 dflt=y
 case "$d_raster" in
 "$undef") dflt=n;;
 esac
 rp='Use raster tech?'
 . ./myread
 case "$ans" in
 y*) val="$define";;
 esac
fi
set d_raster
eval $setvar

case "$d_raster" in
```

```
"$define") rasterlib='-lphigs';;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_raster.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtoull: Inlibc d_longlong Compile cat run
?MAKE: -pick add $@ %<
?S:d_strtoull:
?S: This variable conditionally defines the HAS_STRTOULL symbol, which
?S: indicates to the C program that the strtoull() routine is available.
?S:.
?C:HAS_STRTOULL:
?C: This symbol, if defined, indicates that the strtoull routine is
?C: available to convert strings to unsigned long longs.
?C:.
?H:#$d_strtoull HAS_STRTOULL  /**/
?H:.
?F:!try
: see if strtoull exists
set strtoull d_strtoull
eval $inlibc

case "$d_longlong-$d_strtoull" in
"$define-$define")
 $cat <<EOM
Checking whether your strtoull() works okay...
EOM
 $cat >try.c <<'EOCP'
#include <stdlib.h>
#include <errno.h>
#ifdef __hpux
#define strtoull __strtoull
#endif
#include
 <stdio.h>
static int bad = 0;
void check(const char *s, long long eull, int een) {
 long long gull;
```

```
 errno = 0;
 gull = strtoull(s, 0, 10);
 if (!((gull == eull) && (errno == een)))
  bad++;
}
int main() {
 check(" 1",                                1LL, 0);
 check(" 0",                                0LL, 0);
 check("18446744073709551615",  18446744073709551615ULL, 0);
 check("18446744073709551616",  18446744073709551615ULL, ERANGE);
#if 0 /* strtoull() for /^-/ strings is undefined. */
 check("-1",                  18446744073709551615ULL, 0);
 check("-18446744073709551614",                  2LL, 0);
 check("-18446744073709551615",                  1LL, 0);
 check("-18446744073709551616", 18446744073709551615ULL, ERANGE);
 check("-18446744073709551617", 18446744073709551615ULL, ERANGE);
#endif
 if (!bad)
  printf("ok\n");
}
EOCP
 set try
 if eval $compile; then
  case "`$run ./try`" in
  ok) echo "Your strtoull() seems to be working okay."
 ;;
  *) cat <<EOM >&4
Your strtoull() doesn't seem to be working okay.
EOM
     d_strtoull="$undef"
     ;;
  esac
 else
  echo "(I can't seem to compile the test program--assuming it doesn't)"
  d_strtoull="$undef"
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strtoull.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: i_sysioctl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysioctl.U,v $
?RCS: Revision 3.0.1.2  1994/05/06  15:04:57  ram
?RCS: patch23: added knowledge for <sys/filio.h> (WED)
?RCS: patch23: optimized amount of findhdr calls
?RCS:
?RCS: Revision 3.0.1.1  1993/11/10  17:36:09  ram
?RCS: patch14: now use a compiler check for TIOCNOTTY because of HP-UX 9.x
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:32  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_sysioctl i_bsdioctl i_sysfilio i_syssockio
 d_voidtty: test contains \
 cat i_termio i_termios i_sgtty Setvar Findhdr +cc rm Inhdr
?MAKE: -pick add $@ %<
?S:i_sysioctl:
?S: This variable conditionally defines the I_SYS_IOCTL symbol, which
?S: indicates to the C program that <sys/ioctl.h> exists and should
?S: be included.
?S:.
?S:i_sysfilio:
?S: This variable conditionally defines the I_SYS_FILIO symbol, which
?S: indicates to the C program that <sys/filio.h> exists and should
?S: be included in preference to <sys/ioctl.h>.
?S:.
?S:i_bsdioctl:
?S: This variable conditionally defines the I_SYS_BSDIOCTL symbol, which
?S: indicates to the C program that <sys/bsdioctl.h> exists and should
?S: be included.
?S:.
?S:i_syssockio:
?S: This variable conditionally defines I_SYS_SOCKIO to indicate to the
?S: C program that socket ioctl codes may be found in <sys/sockio.h>
?S: instead of <sys/ioctl.h>.
?S:.
?S:d_voidtty:
?S: This variable conditionally defines USE_IOCNOTTY to indicate that the
?S: ioctl() call with TIOCNOTTY should be used
 to void tty association.
?S: Otherwise (on USG probably), it is enough to close the standard file
?S: descriptors and do a setpgrp().
?S:.
```

```
?C:I_SYS_IOCTL (I_SYSIOCTL):
?C: This symbol, if defined, indicates that <sys/ioctl.h> exists and should
?C: be included. Otherwise, include <sgtty.h> or <termio.h>.
?C:.
?C:I_SYS_FILIO:
?C: This symbol, if defined, indicates that <sys/filio.h> exists and
?C: should be included instead of <sys/ioctl.h>.
?C:.
?C:I_SYS_BSDIOCTL (I_BSDIOCTL):
?C: This symbol, if defined, indicates that <sys/bsdioctl.h> exists and should
?C: be included. Otherwise, try <sys/ioctl.h>. This is primarly intended for
?C: definitions of sockets options, like SIOCATMARK.
?C:.
?C:I_SYS_SOCKIO (I_SYSSOCKIO):
?C: This symbol, if defined, indicates the <sys/sockio.h> should be included
?C: to get socket ioctl options, like SIOCATMARK.
?C:.
?C:USE_TIOCNOTTY (VOIDTTY):
?C: This symbol, if defined indicate to the C program that the ioctl()
?C: call with TIOCNOTTY should be used
 to void tty association.
?C: Otherwise (on USG probably), it is enough to close the standard file
?C: descriptors and do a setpgrp().
?C:.
?H:#$i_sysioctl I_SYS_IOCTL  /**/
?H:#$i_sysfilio I_SYS_FILIO  /**/
?H:#$i_bsdioctl I_SYS_BSDIOCTL  /**/
?H:#$i_syssockio I_SYS_SOCKIO /**/
?H:#$d_voidtty USE_TIOCNOTTY /**/
?H:.
?T:xxx
: see if ioctl defs are in sgtty, termio, sys/filio or sys/ioctl
?LINT:set i_sysfilio
set sys/filio.h i_sysfilio
eval $inhdr
echo " "
if $test `./findhdr sys/ioctl.h`; then
 val="$define"
 echo '<sys/ioctl.h> found.' >&4
else
 val="$undef"
 if $test $i_sysfilio = "$define"; then
     echo '<sys/ioctl.h> NOT found.' >&4
 else
  $test $i_sgtty = "$define" && xxx="sgtty.h"
  $test $i_termio = "$define" && xxx="termio.h"
  $test $i_termios = "$define" && xxx="termios.h"
echo "No <sys/ioctl.h> found, assuming ioctl args are defined in <$xxx>." >&4
```

```
 fi
fi
?LINT:set i_sysioctl
set i_sysioctl
eval $setvar

@if I_BSDIOCTL || i_bsdioctl
?X:
?X: The only machine I know where this
 inclusion was necessary is a
?X: BULL DPX 5000 (a French machine).
?X:
: see if socket ioctl defs are in sys/bsdioctl or sys/ioctl
echo " "
xxx=`./findhdr sys/bsdioctl.h`
if $test "$xxx"; then
 if $contains SIOCATMARK $xxx >/dev/null 2>&1; then
  val="$define"
  echo "You have socket ioctls defined in <sys/bsdioctl.h>." >&4
 else
  val="$undef"
  echo "No socket ioctls found in <sys/bsdioctl.h>." >&4
 fi
else
 val="$undef"
 echo "<sys/bsdioctl.h> not found, but that's ok." >&4
fi
?LINT:set i_bsdioctl
set i_bsdioctl
eval $setvar

@end
@if I_SYSSOCKIO || i_syssockio
: see if socket ioctl defs are in sys/sockio.h
echo " "
xxx=`./findhdr sys/sockio.h`
if $test "$xxx"; then
 if $contains SIOCATMARK $xxx >/dev/null 2>&1; then
  val="$define"
  echo "You have socket ioctls defined in <sys/sockio.h>." >&4
 else
  val="$undef"
  echo "No socket ioctls found in <sys/sockio.h>." >&4
 fi
else
 val="$undef"
@if I_BSDIOCTL
 case "$i_bsdioctl" in
```

```
 "$define") $cat <<EOM
<sys/sockio.h> not found, using
 ioctls from <sys/bsdioctl.h>.
EOM
 ;;
 *) $cat <<EOM
<sys/sockio.h> not found, assuming socket ioctls are in <sys/ioctl.h>.
EOM
 ;;
 esac
@else
 $cat <<EOM
<sys/sockio.h> not found, assuming socket ioctls are in <sys/ioctl.h>.
EOM
@end
fi
?LINT:set i_syssockio
set i_syssockio
eval $setvar

@end
@if VOIDTTY || d_voidtty
: check how to void tty association
echo " "
case "$i_sysioctl" in
"$define") xxx='sys/ioctl.h';;
?X: otherwise $xxx was set during the determination of i_sysioctl, above.
esac
?X:
?X: Can't use $contains here since HP-UX 9.x has TIOCNOTTY between a pair
?X: of #ifdef/#endif and is never actually defined. Oh well...
?X:
$cat > tcio.c <<EOM
#include <sys/types.h> /* Just in case */
#include <$xxx>

int main()
{
#ifdef TIOCNOTTY
 exit(0);
#else
 exit(1);
#endif
}
EOM
if ($cc -o tcio tcio.c && ./tcio) >/dev/null 2>&1; then
 val="$define"
 echo "TIOCNOTTY found in <$xxx>." >&4
```

```
 echo "Using ioctl() call on /dev/tty to void tty association." >&4
else
 val="$undef"
 echo "Closing
 standard file descriptors should void tty association." >&4
fi
?LINT:set d_voidtty
set d_voidtty
eval $setvar
$rm -f tcio tcio.? core

@end
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sysioctl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysfile.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysfile.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:11:36  ram
?RCS: patch56: removed <> characters from comment, per metalint suggestion
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:01:23  ram
?RCS: patch6: added default for i_sysfile
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_sysfile: h_sysfile Inhdr Setvar
?MAKE: -pick add $@ %<
?S:i_sysfile:
?S: This variable conditionally defines
 the I_SYS_FILE symbol, and indicates
?S: whether a C program should include <sys/file.h> to get R_OK and friends.
?S:.
?C:I_SYS_FILE (I_SYSFILE):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/file.h> to get definition of R_OK and friends.
```

```
?C:.
?H:#$i_sysfile I_SYS_FILE  /**/
?H:.
?T:val
?D:i_sysfile="
?LINT:change h_sysfile
?LINT:set i_sysfile
: see if this is a sys/file.h system
val="
set sys/file.h val
eval $inhdr

: do we need to include sys/file.h ?
case "$val" in
"$define")
 echo " "
 if $h_sysfile; then
  val="$define"
  echo "We'll be including <sys/file.h>." >&4
 else
  val="$undef"
  echo "We won't be including <sys/file.h>." >&4
 fi
 ;;
*)
 h_sysfile=false
 ;;
esac
set i_sysfile
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sysfile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_nexttoward: Inlibc
?MAKE: -pick add $@ %<
?S:d_nexttoward:
?S: This variable conditionally defines HAS_NEXTTOWARD if nexttoward()
?S: is available to return the next machine representable long double from
?S: x in direction y.
?S:.
?C:HAS_NEXTTOWARD:
?C: This symbol, if defined, indicates that the nexttoward routine is
```

```
?C: available to return the next machine representable long double from
?C: x in direction y.
?C:.
?H:#$d_nexttoward HAS_NEXTTOWARD  /**/
?H:.
?LINT:set d_nexttoward
: see if nexttoward exists
set nexttoward d_nexttoward
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_nexttoward.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_sysaccess: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysaccess:
?S: This variable conditionally defines the I_SYS_ACCESS symbol,
?S: and indicates whether a C program should include <sys/access.h>.
?S:.
?C:I_SYS_ACCESS:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/access.h>.
?C:.
?H:#$i_sysaccess   I_SYS_ACCESS              /**/
?H:.
?LINT:set i_sysaccess
: see if sys/access.h is available
set sys/access.h i_sysaccess
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/acl/i_sysaccess.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: man1dir.U,v 3.2 1999/07/08 20:57:21 doughera Exp doughera $
```

```
?RCS:
?RCS: Copyright (c) 1996, 1999 Andy Dougherty
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: man1dir.U,v $
?RCS: Revision 3.2  1999/07/08 20:57:21  doughera
?RCS: Used installprefix.
?RCS:
?RCS: Revision 3.1  1999/07/08 20:52:19  doughera
?RCS: Updated for perl5.005_5x
?RCS:
?RCS: Revision 3.0.1.1  1997/02/28  16:10:29  ram
?RCS: patch61: created
?RCS:
?X: This was originally specific to perl5.  Since perl5 has man pages that
?X: go in both man1/ and man3/ directories, we need both man1dir
?X: and
 man3dir.  This unit is basically dist's mansrc.U with
?X: man1 used instead of man everywhere.
?X:
?MAKE:man1dir man1direxp man1ext installman1dir: cat nroff Loc Oldconfig \
 spackage test Getfile Setprefixvar Prefixit Prefixup sysman Myread \
 prefixexp
?MAKE: -pick add $@ %<
?Y:TOP
?D:man1dir=''
?S:man1dir:
?S: This variable contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?D:man1direxp=''
?S:man1direxp:
?S: This variable is the same as the man1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installman1dir=''
?S:installman1dir:
?S: This variable is really the same as man1direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man1direxp only points to the read-only access location.
```

```
 For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:man1ext:
?S: This variable contains the extension that the manual page should
?S: have: one of 'n', 'l', or '1'.  The Makefile must supply the '.'.
?S: See man1dir.
?S:.
?T:lookpath
?LINT:change prefixvar
?LINT:set man1direxp
: determine where manual pages go
set man1dir man1dir none
eval $prefixit
$cat <<EOM

$spackage has manual pages available in source form.
EOM
case "$nroff" in
nroff)
 echo "However, you don't have nroff, so they're probably useless to you."
 case "$man1dir" in
 ") man1dir="none";;
 esac;;
esac
echo "If you don't want the manual sources installed, answer 'none'."
case "$man1dir" in
' ') dflt=none
 ;;
")
 lookpath="$prefixexp/share/man/man1"
 lookpath="$lookpath $prefixexp/man/man1 $prefixexp/man/l_man/man1"
 lookpath="$lookpath $prefixexp/man/p_man/man1"
 lookpath="$lookpath $prefixexp/man/u_man/man1"
 lookpath="$lookpath $prefixexp/man/man.1"
?X: Experience has shown people
 expect man1dir to be under prefix,
?X: so we now always put it there.  Users who want other behavior
?X: can answer interactively or use a command line option.
?X: Does user have System V-style man paths.
 case "$sysman" in
 */?_man*) dflt=`./loc . $prefixexp/l_man/man1 $lookpath` ;;
 *) dflt=`./loc . $prefixexp/man/man1 $lookpath` ;;
 esac
 set dflt
 eval $prefixup
 ;;
*)  dflt="$man1dir"
```

```
 ;;
esac
echo " "
fn=dn+~
rp="Where do the main $spackage manual pages (source) go?"
. ./getfile
if $test "X$man1direxp" != "X$ansexp"; then
 installman1dir=''
fi
prefixvar=man1dir
. ./setprefixvar

case "$man1dir" in
'') man1dir=' '
 installman1dir='';;
esac

: What suffix to use on installed man pages

case "$man1dir" in
' ')
 man1ext='0'
 ;;
*)
 rp="What suffix should be used for the main $spackage man pages?"
 case "$man1ext" in
 '') case "$man1dir" in
  *1)  dflt=1 ;;
  *1p) dflt=1p ;;
  *1pm) dflt=1pm ;;
  *l) dflt=l;;
  *n) dflt=n;;
  *o) dflt=o;;
  *p) dflt=p;;
  *C) dflt=C;;
  *L) dflt=L;;
  *L1)
 dflt=L1;;
  *) dflt=1;;
  esac
  ;;
 *) dflt="$man1ext";;
 esac
 . ./myread
 man1ext="$ans"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/man1dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_chroot.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_chroot.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:17  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_chroot: Inlibc
?MAKE: -pick add $@ %<
?S:d_chroot:
?S: This variable conditionally defines the HAS_CHROOT symbol, which
?S: indicates to the C program that the chroot() routine is available.
?S:.
?C:HAS_CHROOT :
?C: This symbol, if defined, indicates that the chroot routine
 is
?C: available.
?C:.
?H:#$d_chroot HAS_CHROOT  /**/
?H:.
?LINT:set d_chroot
: see if chroot exists
set chroot d_chroot
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_chroot.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_mbtowc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_mbtowc.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:30  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_mbtowc: Inlibc
?MAKE: -pick add $@ %<
?S:d_mbtowc:
?S: This variable conditionally defines the HAS_MBTOWC symbol, which
?S: indicates to the C program that the mbtowc() routine is available
?S: to convert multibyte to a wide character.
?S:.
?C:HAS_MBTOWC (MBTOWC):
?C: This symbol, if defined, indicates that the mbtowc routine is available
?C: to
 convert a multibyte to a wide character.
?C:.
?H:#$d_mbtowc HAS_MBTOWC  /**/
?H:.
?LINT:set d_mbtowc
: see if mbtowc exists
set mbtowc d_mbtowc
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_mbtowc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_scalbn: Inlibc
?MAKE: -pick add $@ %<
?S:d_scalbn:
?S: This variable conditionally defines the HAS_SCALBN symbol, which
?S: indicates to the C program that the scalbn() routine is available.
?S:.
?C:HAS_SCALBN:
?C: This symbol, if defined, indicates that the scalbn routine is
?C: available to multiply floating-point number by integral power
?C: of radix.
?C:.
```

```
?H:#$d_scalbn HAS_SCALBN  /**/
?H:.
?LINT:set d_scalbn
: see if scalbn exists
set scalbn d_scalbn
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_scalbn.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_sqrtl: Inlibc
?MAKE: -pick add $@ %<
?S:d_sqrtl:
?S: This variable conditionally defines the HAS_SQRTL symbol, which
?S: indicates to the C program that the sqrtl() routine is available.
?S:.
?C:HAS_SQRTL:
?C: This symbol, if defined, indicates that the sqrtl routine is
?C: available to do long double square roots.
?C:.
?H:#$d_sqrtl HAS_SQRTL  /**/
?H:.
?LINT:set d_sqrtl
: see if sqrtl exists
set sqrtl d_sqrtl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_sqrtl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setrgid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setrgid.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setrgid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setrgid:
?S: This variable conditionally defines the HAS_SETRGID symbol, which
?S: indicates to the C program that the setrgid() routine is available
?S: to change the real gid of the current program.
?S:.
?C:HAS_SETRGID (SETRGID):
?C: This symbol, if defined, indicates that the setrgid
 routine is available
?C: to change the real gid of the current program.
?C:.
?H:#$d_setrgid HAS_SETRGID  /**/
?H:.
?LINT:set d_setrgid
: see if setrgid exists
set setrgid d_setrgid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setrgid.U
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```
?RCS: $Id: d_shmat.U,v 3.0.1.3 1995/07/25 14:04:23 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_shmat.U,v $
?RCS: Revision 3.0.1.3  1995/07/25  14:04:23  ram
?RCS: patch56: use findhdr to find <sys/shm.h>, to get the right one (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:18:56  ram
?RCS: patch27: added new symbol HAS_SHMAT_PROTOTYPE (ADO)
?RCS:
```

```
?RCS: Revision 3.0.1.1  1994/05/06  14:54:18  ram
?RCS: patch23: new Shmat_t symbol to declare return type of shmat()
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:18  ram
?RCS: Baseline for dist 3.0 netwide
 release.
?RCS:
?MAKE:d_shmat shmattype d_shmatprototype: Inlibc cat +cc +ccflags \
 rm cppstdin cppflags cppminus Findhdr Setvar contains
?MAKE: -pick add $@ %<
?S:d_shmat:
?S: This variable conditionally defines the HAS_SHMAT symbol, which
?S: indicates to the C program that the shmat() routine is available.
?S:.
?S:shmattype:
?S: This symbol contains the type of pointer returned by shmat().
?S: It can be 'void *' or 'char *'.
?S:.
?S:d_shmatprototype:
?S: This variable conditionally defines the HAS_SHMAT_PROTOTYPE
?S: symbol, which indicates that sys/shm.h has a prototype for
?S: shmat.
?S:.
?C:HAS_SHMAT:
?C: This symbol, if defined, indicates that the shmat() routine is
?C: available to attach a shared memory segment to the process space.
?C:.
?C:Shmat_t:
?C: This symbol holds the return type of the shmat() system call.
?C: Usually set to 'void *' or 'char *'.
?C:.
?C:HAS_SHMAT_PROTOTYPE:
?C: This symbol, if defined, indicates that the sys/shm.h includes
?C: a prototype for shmat().
  Otherwise, it is up to the program to
?C: guess one.  Shmat_t shmat(int, Shmat_t, int) is a good guess,
?C: but not always right so it should be emitted by the program only
?C: when HAS_SHMAT_PROTOTYPE is not defined to avoid conflicting defs.
?C:.
?H:#$d_shmat HAS_SHMAT  /**/
?H:#define Shmat_t $shmattype /**/
?H:#$d_shmatprototype HAS_SHMAT_PROTOTYPE /**/
?H:.
?LINT:set d_shmat d_shmatprototype
?T:xxx
: see if shmat exists
set shmat d_shmat
eval $inlibc
```

```
: see what shmat returns
case "$d_shmat" in
"$define")
 $cat >shmat.c <<'END'
#include <sys/shm.h>
void *shmat();
END
 if $cc $ccflags -c shmat.c >/dev/null 2>&1; then
  shmattype='void *'
 else
  shmattype='char *'
 fi
 echo "and it returns ($shmattype)." >&4
 : see if a prototype for shmat is available
 xxx=`./findhdr sys/shm.h`
 $cppstdin $cppflags $cppminus < $xxx > shmat.c 2>/dev/null
 if $contains 'shmat.*(' shmat.c >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 $rm -f shmat.[co]
 ;;
*)
 val="$undef"
 ;;
esac
set
 d_shmatprototype
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_shmat.U
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```
?RCS: $Id: d_setpwent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_setpwent_r setpwent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_pwd extern_C
?MAKE: -pick add $@ %<
?S:d_setpwent_r:
```

```
?S: This variable conditionally defines the HAS_SETPWENT_R symbol,
?S: which indicates to the C program that the setpwent_r()
?S: routine is available.
?S:.
?S:setpwent_r_proto:
?S: This variable encodes the prototype of setpwent_r.
?S: It is zero if d_setpwent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setpwent_r
?S: is defined.
?S:.
?C:HAS_SETPWENT_R:
?C: This symbol, if defined, indicates that the setpwent_r routine
?C: is available to
 setpwent re-entrantly.
?C:.
?C:SETPWENT_R_PROTO:
?C: This symbol encodes the prototype of setpwent_r.
?C: It is zero if d_setpwent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setpwent_r
?C: is defined.
?C:.
?H:#$d_setpwent_r HAS_SETPWENT_R /**/
?H:#define SETPWENT_R_PROTO $setpwent_r_proto /**/
?H:.
?T:try hdrs d_setpwent_r_proto
: see if setpwent_r exists
set setpwent_r d_setpwent_r
eval $inlibc
case "$d_setpwent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_pwd pwd.h"
 case "$d_setpwent_r_proto:$usethreads" in
 ":define") d_setpwent_r_proto=define
  set d_setpwent_r_proto setpwent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_setpwent_r_proto" in
 define)
 case "$setpwent_r_proto" in
 "|0) try='int setpwent_r(FILE**);'
 ./protochk "$extern_C $try" $hdrs && setpwent_r_proto=I_H ;;
 esac
 case "$setpwent_r_proto" in
 "|0) try='void setpwent_r(FILE**);'
 ./protochk "$extern_C $try" $hdrs && setpwent_r_proto=V_H ;;
 esac
 case "$setpwent_r_proto"
```

```
 in
 "|0) d_setpwent_r=undef
  setpwent_r_proto=0
  echo "Disabling setpwent_r, cannot determine prototype." >&4 ;;
 * ) case "$setpwent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) setpwent_r_proto="REENTRANT_PROTO_$setpwent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "setpwent_r has no prototype, not using it." >&4 ;;
  esac
  d_setpwent_r=undef
  setpwent_r_proto=0
  ;;
 esac
 ;;
*) setpwent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_setpwent_r.U
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```
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_socklen_t: Inhdr cat rm_try Setvar Compile d_socket sizetype
?MAKE: -pick add $@ %<
?S:d_socklen_t:
?S: This symbol will be defined if the C compiler supports socklen_t.
?S:.
?C:HAS_SOCKLEN_T:
?C: This symbol will defined if the C compiler supports socklen_t.
?C: Usually the <sys/socket.h> needs to be included.
?C:.
?H:#$d_socklen_t     HAS_SOCKLEN_T              /**/
```

```
?H:.
?LINT:set d_socklen_t
: check for socklen_t
echo " "
echo "Checking to see if you have socklen_t..." >&4
$cat >try.c <<EOCP
#include <sys/types.h>
#$d_socket
 HAS_SOCKET
#ifdef HAS_SOCKET
#include <sys/socket.h>
#endif
int main() { socklen_t x = 16; }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have socklen_t."
else
 val="$undef"
 echo "You do not have socklen_t."
 case "$sizetype" in
 size_t) echo "(You do have size_t, that might work. Some people are happy with just an int.)" ;;
 esac
fi
$rm_try
set d_socklen_t
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_socklen_t.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_rusage.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_rusage.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?X: We may need to include <sys/resource.h> and <sys/time.h> FIXME
?X:INC: i_sysresrc i_systime
?MAKE:d_rusage: Inlibc
?MAKE: -pick add $@ %<
?S:d_rusage (d_getrusg):
?S: This variable conditionally defines the HAS_GETRUSAGE symbol, which
?S: indicates that the getrusage() routine exists.  The getrusage() routine
?S: supports sub-second accuracy
 for process cpu accounting. You may need
?S: to include <sys/resource.h> and <sys/time.h>.
?S:.
?C:HAS_GETRUSAGE (RUSAGE GETRUSAGE):
?C: This symbol, if defined, indicates that the getrusage() routine is
?C: available to get process statistics with a sub-second accuracy.
?C: Inclusion of <sys/resource.h> and <sys/time.h> may be necessary.
?C:.
?H:#$d_rusage HAS_GETRUSAGE  /**/
?H:.
?LINT:set d_rusage
: see if getrusage exists
set getrusage d_rusage
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_rusage.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getnameinfo: Inlibc
?MAKE: -pick add $@ %<
?S:d_getnameinfo:
?S: This variable conditionally defines the HAS_GETNAMEINFO symbol,
?S: which indicates to the C program that the getnameinfo() function
?S: is available.
?S:.
?C:HAS_GETNAMEINFO:
?C: This symbol, if defined, indicates that the getnameinfo() function
?C: is available for use.
?C:.
?H:#$d_getnameinfo HAS_GETNAMEINFO  /**/
?H:.
```

```
?LINT:set d_getnameinfo
: see if getnameinfo exists
set getnameinfo d_getnameinfo
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_getnameinfo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: mailer.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: mailer.U,v $
?RCS: Revision 3.0.1.3  1995/01/11  15:32:11  ram
?RCS: patch45: can now use Loc variables since path stripping is deferred
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:10:04  ram
?RCS: patch23: ensure full path value is used for rmail also
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:14:18  ram
?RCS: patch16: now use _sendmail vars and friends for portability issues
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:10  ram
?RCS: Baseline for dist
 3.0 netwide release.
?RCS:
?MAKE:mailer: test cat rmail mail smail sendmail Getfile Oldconfig
?MAKE: -pick add $@ %<
?S:mailer:
?S: This variable contains the full pathname of a reasonable mailer.
?S: By reasonable, we mean some program which can understand internet
?S: addresses or at least forward them to some internet router. This
?S: mailer should be invoked as "mailer [options] recipients <mail".
?S:.
: determine the name of a reasonable mailer
case "$mailer" in
")
 if $test -f "$sendmail"; then
  dflt="$sendmail"
 elif $test -f "$smail"; then
```

```
  dflt="$smail"
 elif $test -f "$rmail"; then
  dflt="$rmail"
 elif $test -f /bin/mail; then
  dflt=/bin/mail
 else
  dflt=$mail
 fi
 ;;
*)  dflt="$mailer";;
esac
$cat <<EOM

I need the full pathname of the program used to deliver mail on your system.
A typical answer would be /usr/lib/sendmail or /bin/rmail, but you may choose
any other program, as long as it can be fed from standard input and will
honour any user-supplied headers.

EOM
fn=f
rp='Mail
 transport agent to be used?'
. ./getfile
mailer="$ans"
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/mailer.U
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```
?RCS: $Id: d_dbl_dig.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_dbl_dig.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:28  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_dbl_dig: Myread contains cat rm Setvar \
 cppstdin cppflags cppminus
```

```
?MAKE: -pick add $@ %<
?S:d_dbl_dig:
?S: This variable conditionally defines d_dbl_dig if this system's
?S: header files provide DBL_DIG, which is the number of significant
?S: digits in a double precision
 number.
?S:.
?C:HAS_DBL_DIG:
?C: This symbol, if defined, indicates that this system's <float.h>
?C: or <limits.h> defines the symbol DBL_DIG, which is the number
?C: of significant digits in a double precision number.  If this
?C: symbol is not defined, a guess of 15 is usually pretty good.
?C:.
?H:#$d_dbl_dig HAS_DBL_DIG /**/
?H:.
?F:!dbl_dig.c
?LINT:set d_dbl_dig
: See if number of significant digits in a double precision number is known
echo " "
$cat >dbl_dig.c <<EOM
#include <limits.h>
#include <float.h>
#ifdef DBL_DIG
printf("Contains DBL_DIG");
#endif
EOM
$cppstdin $cppflags $cppminus < dbl_dig.c >dbl_dig.E 2>/dev/null
if $contains 'DBL_DIG' dbl_dig.E >/dev/null 2>&1; then
 echo "DBL_DIG found." >&4
 val="$define"
else
 echo "DBL_DIG NOT found." >&4
 val="$undef"
fi
$rm -f dbl_dig.?
set d_dbl_dig
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_dbl_dig.U
No license file was found, but licenses were detected in source scan.

```
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```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_keepsig.U,v $
?RCS: Revision 3.0.1.4  1995/07/25  13:57:56  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:26:25  ram
?RCS: patch45: protected "sh -c" within backquotes for Linux and SGI
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:13:59  ram
?RCS: patch36: call ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.1  1993/10/16  13:48:47  ram
?RCS: patch12: comment for SIGNALS_KEPT was the other way round
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:06:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_keepsig: cat Compile rm Guess contains echo n c Setvar run
?MAKE: -pick add $@ %<
?S:d_keepsig:
?S: This variable contains the eventual value of the SIGNALS_KEPT symbol,
?S: which indicates to the C program if signal handlers need not reinstated
?S: after receipt of a signal.
?S:.
?C:SIGNALS_KEPT (PERSISTENT_SIGNAL):
?C: This symbol is defined if signal handlers needn't be reinstated after
?C: receipt of a signal.
?C:.
?H:#$d_keepsig SIGNALS_KEPT /**/
?H:.
?F:!try !try.out
?LINT:set d_keepsig
: see if signals are kept
val="$undef";
echo " "
echo "Checking to see if signal handlers stick around..." >&4
$cat >try.c <<'EOCP'
foo() {}

int main()
{
 signal(2, foo);
 kill(getpid(), 2);
```

```
 kill(getpid(), 2);
 printf("abc\n");
}
EOCP
set try
if eval $compile_ok; then
?X: On AIX a single ./try will not work (with ksh)
?X: Backquotes required on Linux and SGI (prevents "ambiguous output redirect")
?X:
 (reported by Xavier LeVourch <xavierl@eiffel.com>)
 `sh -c $run ./try >try.out 2>/dev/null`
 if $contains abc try.out >/dev/null 2>&1; then
  echo "Yes, they do."
  val="$define";
 else
  echo "No, they don't."
 fi
else
 $echo $n "(I can't seem to compile the test program. Assuming $c"
 if ./bsd; then
  echo "they do.)"
  val="$define"
 else
  echo "they don't.)"
 fi
fi
set d_keepsig
eval $setvar
$rm -f try*
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_keepsig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fsetpos.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_fsetpos.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  06:57:38  ram
?RCS: patch30: created
```

```
?RCS:
?MAKE:d_fsetpos: Inlibc
?MAKE: -pick add $@ %<
?S:d_fsetpos:
?S: This variable conditionally defines HAS_FSETPOS if fsetpos() is
?S: available to set the file position indicator.
?S:.
?C:HAS_FSETPOS:
?C: This symbol, if defined, indicates that the fsetpos routine is
?C: available to set the file position indicator, similar to fseek().
?C:.
?H:#$d_fsetpos
 HAS_FSETPOS /**/
?H:.
?LINT:set d_fsetpos
: see if fsetpos exists
set fsetpos d_fsetpos
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_fsetpos.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpwuid_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getpwuid_r getpwuid_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_pwd extern_C
?MAKE: -pick add $@ %<
?S:d_getpwuid_r:
?S: This variable conditionally defines the HAS_GETPWUID_R symbol,
?S: which indicates to the C program that the getpwuid_r()
?S: routine is available.
?S:.
?S:getpwuid_r_proto:
?S: This variable encodes the prototype of getpwuid_r.
?S: It is zero if d_getpwuid_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getpwuid_r
?S: is defined.
?S:.
?C:HAS_GETPWUID_R:
?C: This symbol, if defined, indicates that the getpwuid_r routine
```

```
?C: is available to
 getpwuid re-entrantly.
?C:.
?C:GETPWUID_R_PROTO:
?C: This symbol encodes the prototype of getpwuid_r.
?C: It is zero if d_getpwuid_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getpwuid_r
?C: is defined.
?C:.
?H:#$d_getpwuid_r HAS_GETPWUID_R /**/
?H:#define GETPWUID_R_PROTO $getpwuid_r_proto /**/
?H:.
?T:try hdrs d_getpwuid_r_proto
: see if getpwuid_r exists
set getpwuid_r d_getpwuid_r
eval $inlibc
case "$d_getpwuid_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_pwd pwd.h"
 case "$d_getpwuid_r_proto:$usethreads" in
 ":define") d_getpwuid_r_proto=define
  set d_getpwuid_r_proto getpwuid_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getpwuid_r_proto" in
 define)
 case "$getpwuid_r_proto" in
 "|0) try='int getpwuid_r(uid_t, struct passwd*, char*, size_t, struct passwd**);'
 ./protochk "$extern_C $try" $hdrs && getpwuid_r_proto=I_TSBWR ;;
 esac
 case "$getpwuid_r_proto" in
 "|0) try='int getpwuid_r(uid_t, struct passwd*, char*, int,
 struct passwd**);'
 ./protochk "$extern_C $try" $hdrs && getpwuid_r_proto=I_TSBIR ;;
 esac
 case "$getpwuid_r_proto" in
 "|0) try='int getpwuid_r(uid_t, struct passwd*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getpwuid_r_proto=I_TSBI ;;
 esac
 case "$getpwuid_r_proto" in
 "|0) try='struct passwd* getpwuid_r(uid_t, struct passwd*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getpwuid_r_proto=S_TSBI ;;
 esac
 case "$getpwuid_r_proto" in
 "|0) d_getpwuid_r=undef
  getpwuid_r_proto=0
  echo "Disabling getpwuid_r, cannot determine prototype." >&4 ;;
```

```
 * ) case "$getpwuid_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getpwuid_r_proto="REENTRANT_PROTO_$getpwuid_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getpwuid_r has no prototype, not using it." >&4 ;;
  esac
  d_getpwuid_r=undef
  getpwuid_r_proto=0
  ;;
 esac
 ;;
*) getpwuid_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getpwuid_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_castneg.U,v 3.0.1.2 1995/05/12 12:11:21 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_castneg.U,v $
?RCS: Revision 3.0.1.2  1995/05/12  12:11:21  ram
?RCS: patch54: made sure cc and ccflags are conditional dependencies
?RCS: patch54: added improved test case for Interactive Unix
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:10:50  ram
?RCS: patch36: don't forget to tell user about compilation failures (ADO)
?RCS: patch36: declare signal handler correctly using 'signal_t' (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:47  ram
?RCS: Baseline
 for dist 3.0 netwide release.
?RCS:
?X:
```

```
?X: Can the compiler cast negative / odd floats to unsigned values.
?X:
?MAKE:d_castneg castflags: cat Compile rm_try Setvar signal_t run i_stdlib
?MAKE: -pick add $@ %<
?S:d_castneg:
?S: This variable conditionally defines CASTNEG, which indicates
?S: whether the C compiler can cast negative float to unsigned.
?S:.
?S:castflags:
?S: This variable contains a flag that precise difficulties the
?S: compiler has casting odd floating values to unsigned long:
?S:  0 = ok
?S:  1 = couldn't cast < 0
?S:  2 = couldn't cast >= 0x80000000
?S:  4 = couldn't cast in argument expression list
?S:.
?C:CASTNEGFLOAT:
?C: This symbol is defined if the C compiler can cast negative
?C: numbers to unsigned longs, ints and shorts.
?C:.
?C:CASTFLAGS:
?C: This symbol contains flags that say what difficulties the compiler
?C: has casting odd floating values to unsigned long:
?C:  0 = ok
?C:  1 = couldn't cast < 0
?C:  2 = couldn't cast >= 0x80000000
?C:  4 = couldn't
 cast in argument expression list
?C:.
?H:#$d_castneg CASTNEGFLOAT  /**/
?H:#define CASTFLAGS $castflags  /**/
?H:.
?F:!try
?LINT:set d_castneg
: check for ability to cast negative floats to unsigned
echo " "
echo 'Checking whether your C compiler can cast negative float to unsigned.' >&4
$cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <sys/types.h>
#include <signal.h>
$signal_t blech(int s) { exit(7); }
$signal_t blech_in_list(int s) { exit(4); }
unsigned long dummy_long(unsigned long p) { return p; }
```

```
unsigned int dummy_int(unsigned int p) { return p; }
unsigned short dummy_short(unsigned short p) { return p; }
int main()
{
 double f;
 unsigned long along;
 unsigned int aint;
 unsigned short ashort;
 int result = 0;
 char str[16];

 /* Frustrate gcc-2.7.2's optimizer which failed this test with
    a direct f = -123. assignment.  gcc-2.8.0 reportedly
    optimized the whole file away
 */
 /* Store the number in a writable
 string for gcc to pass to
    sscanf under HP-UX.
 */
 sprintf(str, "-123");
 sscanf(str, "%lf", &f);  /* f = -123.; */

 signal(SIGFPE, blech);
 along = (unsigned long)f;
 aint = (unsigned int)f;
 ashort = (unsigned short)f;
 if (along != (unsigned long)-123)
  result |= 1;
 if (aint != (unsigned int)-123)
  result |= 1;
 if (ashort != (unsigned short)-123)
  result |= 1;
 sprintf(str, "1073741824.");
 sscanf(str, "%lf", &f); /* f = (double)0x40000000; */
 f = f + f;
 along = 0;
 along = (unsigned long)f;
 if (along != 0x80000000)
  result |= 2;
 f -= 1.;
 along = 0;
 along = (unsigned long)f;
 if (along != 0x7fffffff)
  result |= 1;
 f += 2.;
 along = 0;
 along = (unsigned long)f;
 if (along != 0x80000001)
```

```
  result |= 2;
 if (result)
  exit(result);
?X:
?X: The following is a test for Interactive Unix Version 4.1, which
?X: has an 'improved' compiler which can correctly cast negative
?X: floats in expression lists, but apparently not in argument lists.
?X: Contributed by Winfried Koenig
 <win@incom.rhein-main.de>
?X:
 signal(SIGFPE, blech_in_list);
 sprintf(str, "123.");
 sscanf(str, "%lf", &f);  /* f = 123.; */
 along = dummy_long((unsigned long)f);
 aint = dummy_int((unsigned int)f);
 ashort = dummy_short((unsigned short)f);
 if (along != (unsigned long)123)
  result |= 4;
 if (aint != (unsigned int)123)
  result |= 4;
 if (ashort != (unsigned short)123)
  result |= 4;
 exit(result);

}
EOCP
set try
if eval $compile_ok; then
 $run ./try 2>/dev/null
 castflags=$?
else
 echo "(I can't seem to compile the test program--assuming it can't)"
 castflags=7
fi
case "$castflags" in
0) val="$define"
 echo "Yup, it can."
 ;;
*) val="$undef"
 echo "Nope, it can't."
 ;;
esac
set d_castneg
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/compline/d_castneg.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1997, Chip Salzenberg
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sh.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:20:13  ram
?RCS: patch61: created
?RCS:
?MAKE:sh: Head
?MAKE: -pick wipe $@ %<
?S:sh:
?S: This variable contains the full pathname of the shell used
?S: on this system to execute Bourne shell scripts.  Usually, this will be
?S: /bin/sh, though it's possible that some systems will have /bin/ksh,
?S: /bin/pdksh, /bin/ash, /bin/bash, or even something such as
?S: D:/bin/sh.exe.
?S: This unit comes before Options.U,
 so you can't set sh with a -D
?S: option, though you can override this (and startsh)
?S: with -O -Dsh=/bin/whatever -Dstartsh=whatever
?S:.
?C:SH_PATH:
?C: This symbol contains the full pathname to the shell used on this
?C: on this system to execute Bourne shell scripts.  Usually, this will be
?C: /bin/sh, though it's possible that some systems will have /bin/ksh,
?C: /bin/pdksh, /bin/ash, /bin/bash, or even something such as
?C: D:/bin/sh.exe.
?C:.
?H:#define SH_PATH "$sh"  /**/
?H:.
?T:xxx try pth p SYSTYPE
?LINT:extern maintloc maintname
?X:
?X: Be quiet unless something unusual happens because this gets
?X: loaded up even before options are processed.
?X: Can't use ./loc because that depends on startsh, which, in turn
?X: depends on this unit.
?X:
```

```
: Find the basic shell for Bourne shell scripts
case "$sh" in
")
?X: SYSTYPE is for some older MIPS systems.
?X: I do not know if it is still needed.
 case "$SYSTYPE" in
 *bsd*|sys5*) xxx="/$SYSTYPE/bin/sh";;
 *) xxx='/bin/sh';;
 esac
 if
 test -f "$xxx"; then
  sh="$xxx"
 else
  : Build up a list and do a single loop so we can 'break' out.
  pth=`echo $PATH | sed -e "s/$p_/ /g"`
  for xxx in sh bash ksh pdksh ash; do
   for p in $pth; do
    try="$try ${p}/${xxx}"
   done
  done
  for xxx in $try; do
   if test -f "$xxx"; then
    sh="$xxx"
    break
   elif test -f "$xxx$_exe"; then
    sh="$xxx"
    break
   elif test -f "$xxx.exe"; then
    sh="$xxx"
    break
   fi
  done
 fi
 ;;
esac

?X: fd 4 isn't open yet...
case "$sh" in
") cat >&2 <<EOM
$me:  Fatal Error:  I can't find a Bourne Shell anywhere.

Usually it's in /bin/sh.  How did you even get this far?
Please contact me (<$maintname>) at <$maintloc> and
we'll try to straighten this all out.
EOM
 exit 1
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/sh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X: This unit generates a $hasstruct string that is used internally
?X: by Configure to check if this system has a field for a
?X: particular struct (of if this system has a particular struct!)
?X:
?X: To use it, say something like:
?X:  set d_statblocks stat i_sysstat sys/stat.h
?X:  eval $hasstruct
?X: Or, for more complicated sets of headers, do something like
?X: hdrs="$define sys/foo.h
?X:  $i_sysbar sys/bar.h
?X:  $i_syszot sys/zot.h
?X:  $i_zappa zappa.h"
?X: set d_statblocks stat $hdrs
?X: eval $hasstruct
?X:
?MAKE:Hasstruct: Setvar rm_try test Compile
?MAKE: -pick add $@ %<
?T:varname struct
?V:hasstruct
: Define hasstruct macro for Configure internal use
hasstruct='varname=$1; struct=$2; shift;
 shift;
while $test $# -ge 2; do
 case "$1" in
 $define) echo "#include <$2>";;
 esac ;
   shift 2;
done > try.c;
echo "int main () { struct $struct foo; }" >> try.c;
set try;
if eval $compile; then
 val="$define";
else
 val="$undef";
fi;
```

```
set $varname;
eval $setvar;
$rm_try'
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/Hasstruct.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtold: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtold:
?S: This variable conditionally defines the HAS_STRTOLD symbol, which
?S: indicates to the C program that the strtold() routine is available.
?S:.
?C:HAS_STRTOLD:
?C: This symbol, if defined, indicates that the strtold routine is
?C: available to convert strings to long doubles.
?C:.
?H:#$d_strtold HAS_STRTOLD  /**/
?H:.
?LINT:set d_strtold
: see if strtold exists
set strtold d_strtold
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strtold.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: usrinc.U,v 1.1 2000/06/27 00:20:28 jhi Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
```

```
?RCS: $Log: usrinc.U,v $
?RCS: Revision 1.1  2000/06/27 00:20:28  jhi
?RCS: Initial revision
?RCS:
?RCS: Revision 3.0.1.3  1997/02/28  16:27:12  ram
?RCS: patch61: don't ask for the include path unless they are on a MIPS
?RCS:
?RCS: Revision 3.0.1.2  1995/05/12  12:24:36  ram
?RCS: patch54: ensure that ./mips always exists (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:18:31  ram
?RCS: patch23: ensure usrinc value is preserved across sessions (WED)
?RCS:
?RCS: Revision
 3.0  1993/08/18  12:09:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:usrinc incpath mips_type: test cat echo n c Getfile Guess \
 Oldconfig eunicefix contains rm sysroot cc
?MAKE: -pick add $@ %<
?S:usrinc:
?S: This variable holds the path of the include files, which is
?S: usually /usr/include. It is mainly used by other Configure units.
?S:.
?S:incpath:
?S: This variable must precede the normal include path to get the
?S: right one, as in "$incpath/usr/include" or "$incpath/usr/lib".
?S: Value can be "" or "/bsd43" on mips.
?S:.
?S:mips_type:
?S: This variable holds the environment type for the mips system.
?S: Possible values are "BSD 4.3" and "System V".
?S:.
?D:usrinc='/usr/include'
?LINT:extern cppflags
?LINT:create mips
?T:xxx_prompt
?F:./mips
: What should the include directory be ?
: Use sysroot if set, so findhdr looks in the right place.
echo " "
$echo $n "Hmm...  $c"
dflt="$sysroot/usr/include"
incpath=''
?X: mips_type is used later, to add -DSYSTYPE_BSD43
 to cppflags if needed.
mips_type=''
?X:
```

```
?X: Cannot put the following in Guess, or we get a circular dependency.
?X:
if $test -f /bin/mips && /bin/mips; then
 echo "Looks like a MIPS system..."
 $cat >usr.c <<'EOCP'
#ifdef SYSTYPE_BSD43
/bsd43
#endif
EOCP
 if $cc $cppflags -E usr.c > usr.out && $contains / usr.out >/dev/null 2>&1; then
  dflt='/bsd43/usr/include'
  incpath='/bsd43'
  mips_type='BSD 4.3'
 else
  mips_type='System V'
 fi
 $rm -f usr.c usr.out
 echo "and you're compiling with the $mips_type compiler and libraries."
 xxx_prompt=y
 echo "exit 0" >mips
else
 echo "Doesn't look like a MIPS system."
 xxx_prompt=n
 echo "exit 1" >mips
fi
chmod +x mips
$eunicefix mips
case "$usrinc" in
") ;;
*) dflt="$usrinc";;
esac
case "$xxx_prompt" in
y) fn=d/
 echo " "
 rp='Where are the include files you want to use?'
 . ./getfile
 usrinc="$ans"
 ;;
*) usrinc="$dflt"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/usrinc.U
No license file was found, but licenses were detected in source scan.

?RCS: Copyright (c) 2006-2007, H.Merijn Brand

```
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_c99_variadic_macros: Compile Setvar cat rm_try run
?MAKE: -pick add $@ %<
?S:d_c99_variadic_macros:
?S: This variable conditionally defines the HAS_C99_VARIADIC_MACROS
?S: symbol, which indicates to the C program that C99 variadic macros
?S: are available.
?S:.
?C:HAS_C99_VARIADIC_MACROS:
?C: If defined, the compiler supports C99 variadic macros.
?C:.
?H:#$d_c99_variadic_macros HAS_C99_VARIADIC_MACROS /**/
?H:.
?F:!try
: see if the Compiler supports C99 variadic macros
echo "Checking for C99 variadic macros." >&4
$cat >try.c <<EOCP
#include
 <stdio.h>
#include <stdarg.h>

#define foo(buffer, format, ...) sprintf(buffer, format, __VA_ARGS__)

int main() {
 char buf[20];
 foo(buf, "%d %g %.*s", 123, 456.0, (int)3, "789fail");
 puts(buf);
 return 0;
}
EOCP
set try
if eval $compile && $run ./try 2>&1 >/dev/null; then
   case "`$run ./try`" in
 "123 456 789")
 echo "You have C99 variadic macros." >&4
 d_c99_variadic_macros="$define"
 ;;
 *)
 echo "You don't have functional C99 variadic macros." >&4
 d_c99_variadic_macros="$undef"
 ;;
   esac
```

```
else
   echo "I couldn't compile and run the test program, so I assume that you don't have functional C99 variadic
macros." >&4
   d_c99_variadic_macros="$undef"
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_c99_variadic.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_mkdir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_mkdir.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:37  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_mkdir: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkdir:
?S: This variable conditionally defines the HAS_MKDIR symbol, which
?S: indicates to the C program that the mkdir() routine is available
?S: to create directories..
?S:.
?C:HAS_MKDIR (MKDIR):
?C: This symbol, if defined, indicates that the mkdir routine is available
?C: to create directories.
  Otherwise you should fork off a new process to
?C: exec /bin/mkdir.
?C:.
?H:#$d_mkdir HAS_MKDIR  /**/
?H:.
?LINT:set d_mkdir
: see if mkdir exists
set mkdir d_mkdir
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/dist/U/d_mkdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Cppsym.U,v $
?RCS: Revision 3.0.1.5  1995/05/12  11:59:11  ram
?RCS: patch54: split awk command onto two lines for older awks (ADO)
?RCS:
?RCS: Revision 3.0.1.4  1995/01/11  14:55:57  ram
?RCS: patch45: new cc vs. cpp symbol checking suggested by JHI
?RCS: patch45: added more cpp symbols (JHI)
?RCS:
?RCS: Revision 3.0.1.3  1994/10/29  15:51:32  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: new symbols ardent and titan (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20
  06:53:32  ram
?RCS: patch30: extended cpp symbol lookup list (JHI)
?RCS: patch30: renamed attrlist symbol into al for brevity
?RCS:
?RCS: Revision 3.0.1.1  1993/12/15  08:14:14  ram
?RCS: patch15: added new cpp symbols __bsdi__ and BSD_NET2
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script called Cppsym, which can be used to
?X: determine whether any in a list of symbols is defined by the C compilation
?X: chain (C preprocessor symbols plus C compiler native ones).
?X: It can determine the status of any symbol, though the symbols in $al
?X: are more easily determined.  If you want to add to $al you can do
?X: it in Myinit.U.
?X:
?MAKE:Cppsym ccsymbols cppsymbols cppccsymbols: run \
 eunicefix Guess awk cat tr sed sort rm startsh osname \
 +cc gccversion test comm uniq echo Options trnl \
 optimize ccflags ldflags libs
```

```
?MAKE: -pick add $@ %<
?S:ccsymbols:
?S: The variable contains the symbols
 defined by the C compiler alone.
?S: The symbols defined by cpp or by cc when it calls cpp are not in
?S: this list, see cppsymbols and cppccsymbols.
?S: The list is a space-separated list of symbol=value tokens.
?S:.
?S:cppsymbols:
?S: The variable contains the symbols defined by the C preprocessor
?S: alone.  The symbols defined by cc or by cc when it calls cpp are
?S: not in this list, see ccsymbols and cppccsymbols.
?S: The list is a space-separated list of symbol=value tokens.
?S:.
?S:cppccsymbols:
?S: The variable contains the symbols defined by the C compiler
?S: when it calls cpp.  The symbols defined by the cc alone or cpp
?S: alone are not in this list, see ccsymbols and cppsymbols.
?S: The list is a space-separated list of symbol=value tokens.
?S:.
?T:also symbols i postprocess_cc_v flags
?F:./Cppsym
?F:!Cppsym.true !Cppsym.know !ccsym.com !ccsym.cpp !ccsym.own
: determine known pre-processor and compiler symbols
echo " "
$echo "Guessing which symbols your C compiler and preprocessor
 define..." >&4
?X:
?X: The symbol list is in alpha order for ease of maintenance...
?X:
?X: Lots of new symbols (mostly rummaged from gcc), courtesy of
?X: Jarkko Hietaniemi <jhi@snakemail.hut.fi> -- RAM, 06/06/94
?X:
?X: If your symbol is mixed case, just add it as-is.
?X: All symbols will be transformed to both all-lower and all-upper.
?X: Also drop any leading/trailing underscores, the scan will try all those.
?X:
$cat <<'EOSH' > Cppsym.know
a29k ABI64 aegis AES_SOURCE AIX AIX32 AIX370
AIX41 AIX42 AIX43 AIX_SOURCE aixpc ALL_SOURCE
alliant alpha am29000 AM29000 AMD64 amiga AMIGAOS AMIX
ansi ANSI_C_SOURCE apollo ardent ARM32 atarist att386 att3b
BeOS BIG_ENDIAN BIT_MSF bsd BSD bsd43 bsd4_2 bsd4_3 BSD4_3 bsd4_4
BSD_4_3 BSD_4_4 BSD_NET2 BSD_TIME BSD_TYPES BSDCOMPAT bsdi
bull c cadmus clipper CMU COFF COMPILER_VERSION
concurrent convex cpu cray CRAY CRAYMPP ctix CX_UX
CYGWIN DGUX DGUX_SOURCE DJGPP dmert DOLPHIN DPX2 DSO
Dynix DynixPTX ELF encore EPI EXTENSIONS FAVOR_BSD
```

FILE_OFFSET_BITS
FreeBSD GCC_NEW_VARARGS gcos gcx gimpel
GLIBC GLIBC_MINOR
GNU_SOURCE GNUC GNUC_MINOR GNU_LIBRARY GO32 gould GOULD_PN
H3050R H3050RX hbullx20 hcx host_mips
hp200 hp300 hp700 HP700 hp800 hp9000
hp9000s200 hp9000s300 hp9000s400 hp9000s500
hp9000s700 hp9000s800 hp9k8 hp_osf hppa hpux HPUX_SOURCE
i186 i286 i386 i486 i586 i686 i8086 i80960 i860 I960
IA64 iAPX286 ibm ibm032 ibmesa IBMR2 ibmrt ILP32 ILP64
INLINE_INTRINSICS INTRINSICS INT64 interdata is68k ksr1
LANGUAGE_C LARGE_FILE_API LARGEFILE64_SOURCE
LARGEFILE_SOURCE LFS64_LARGEFILE LFS_LARGEFILE
Linux LITTLE_ENDIAN LONG64 LONG_DOUBLE LONG_LONG
LONGDOUBLE LONGLONG LP64 luna luna88k Lynx
M68000 m68k m88100 m88k M88KBCS_TARGET M_COFF
M_I186 M_I286 M_I386 M_I8086 M_I86 M_I86SM M_SYS3
M_SYS5 M_SYSIII M_SYSV M_UNIX M_XENIX MACH machine MachTen
MATH_HAS_NO_SIDE_EFFECTS
mc300 mc500 mc68000 mc68010 mc68020 mc68030 mc68040
mc68060 mc68k mc68k32 mc700 mc88000 mc88100 merlin
mert MiNT mips MIPS_FPSET MIPS_ISA MIPS_SIM MIPS_SZINT
MIPS_SZLONG
MIPS_SZPTR MIPSEB MIPSEL MODERN_C motorola
mpeix MSDOS MTXINU MULTIMAX mvs MVS n16 ncl_el ncl_mr
NetBSD news1500 news1700 news1800 news1900 news3700
news700 news800 news900 NeXT NLS nonstopux ns16000 ns32000
ns32016 ns32332 ns32k nsc32000
OCS88 OEMVS OpenBSD os OS2 OS390 osf OSF1 OSF_SOURCE
pa_risc PA_RISC1_1 PA_RISC2_0 PARAGON parisc
pc532 pdp11 PGC PIC plexus PORTAR posix
POSIX1B_SOURCE POSIX2_SOURCE POSIX4_SOURCE
POSIX_C_SOURCE POSIX_SOURCE POWER
PROTOTYPES PWB pyr QNX R3000 REENTRANT RES Rhapsody RISC6000
riscix riscos RT S390 SA110 scs SCO sequent sgi SGI_SOURCE SH3 sinix
SIZE_INT SIZE_LONG SIZE_PTR SOCKET_SOURCE SOCKETS_SOURCE
sony sony_news sonyrisc sparc sparclite spectrum
stardent stdc STDC_EXT stratos sun sun3 sun386
Sun386i svr3 svr4 SVR4_2 SVR4_SOURCE svr5
SX system SYSTYPE_BSD SYSTYPE_BSD43 SYSTYPE_BSD44
SYSTYPE_SVR4 SYSTYPE_SVR5 SYSTYPE_SYSV SYSV SYSV3 SYSV4 SYSV5
sysV68 sysV88 Tek4132 Tek4300 titan
TM3200 TM5400 TM5600
tower tower32 tower32_200 tower32_600 tower32_700
tower32_800
tower32_850 tss
u370 u3b u3b2 u3b20 u3b200 u3b20d u3b5
ultrix UMAXV UnicomPBB UnicomPBD UNICOS UNICOSMK

```
unix UNIX95 UNIX99 unixpc unos
USE_BSD USE_FILE_OFFSET64 USE_GNU USE_ISOC9X USE_LARGEFILE USE_LARGEFILE64
USE_MISC USE_POSIX USE_POSIX199309 USE_POSIX199506 USE_POSIX2
USE_REENTRANT USE_SVID USE_UNIX98 USE_XOPEN USE_XOPEN_EXTENDED
USGr4 USGr4_2
Utek UTek UTS UWIN uxpm uxps vax venix VMESA vms xenix Xenix286
XOPEN_SOURCE XOPEN_SOURCE_EXTENDED XPG2 XPG2_EXTENDED
XPG3 XPG3_EXTENDED XPG4 XPG4_EXTENDED
z8000
EOSH
?X: Maybe put other stuff here too.
cat <<EOSH >>Cppsym.know
$osname
EOSH
./tr '[a-z]' '[A-Z]' < Cppsym.know > Cppsym.a
./tr '[A-Z]' '[a-z]' < Cppsym.know > Cppsym.b
$cat Cppsym.know > Cppsym.c
$cat Cppsym.a Cppsym.b Cppsym.c | $tr ' ' $trnl | $sort | $uniq > Cppsym.know
$rm -f Cppsym.a Cppsym.b Cppsym.c
cat <<EOSH > Cppsym
$startsh
if $test \$# -gt 0; then
   echo \$* | $tr " " "$trnl" | ./Cppsym.try > Cppsym.got
   if $test -s Cppsym.got; then
       $rm -f Cppsym.got
        exit 0
   fi
   $rm -f Cppsym.got
   exit 1
else
   $tr " " "$trnl" | ./Cppsym.try
   exit 0
fi
EOSH
chmod +x Cppsym
$eunicefix Cppsym
?X: The below awk script will die a horrible death if
?X: some of the tested symbols are not long ints.
?X: Also, we do not make difference between just defined and defined zero.
cat <<EOSH > Cppsym.try
$startsh
cat <<'EOCP' > try.c
#include <stdio.h>
int main() {
EOCP
?X: The length($1) command guards against possible empty entries.
?X: The awk snippet is know to give heartburn to UNICOS/mk awk.
$awk \\
```

```
EOSH
cat <<'EOSH' >> Cppsym.try
'length($1) > 0 {
   printf "#ifdef %s\n#if %s+0\nprintf(\"%s=%%ld\\n\", (long)%s);\n#else\nprintf(\"%s\\n\");\n#endif\n#endif\n", $1,
$1, $1, $1, $1
   printf "#ifdef _%s\n#if _%s+0\nprintf(\"_%s=%%ld\\n\",
(long)_%s);\n#else\nprintf(\"_%s\\n\");\n#endif\n#endif\n", $1, $1, $1, $1, $1
   printf "#ifdef __%s\n#if __%s+0\nprintf(\"__%s=%%ld\\n\",
(long)__%s);\n#else\nprintf(\"__%s\\n\");\n#endif\n#endif\n",
 $1, $1, $1, $1, $1
   printf "#ifdef __%s__\n#if __%s__+0\nprintf(\"__%s__=%%ld\\n\",
(long)__%s__);\n#else\nprintf(\"__%s__\\n\");\n#endif\n#endif\n", $1, $1, $1, $1, $1
}'  >> try.c
echo 'return 0;}' >> try.c
EOSH
cat <<EOSH >> Cppsym.try
flags="$ccflags"
case "$osname-$gccversion" in
irix-) flags="\$flags -woff 1178" ;;
os2-*) flags="\$flags -Zlinker /PM:VIO" ;;
esac
$cc -o try $optimize \$flags $ldflags try.c $libs && $run ./try
EOSH
chmod +x Cppsym.try
$eunicefix Cppsym.try
./Cppsym < Cppsym.know > Cppsym.true
: now check the C compiler for additional symbols
?X: suggested by Jarkko Hietaniemi <jhi@snakemail.hut.fi>, thanks!
postprocess_cc_v="
case "$osname" in
aix) postprocess_cc_v="|$tr , ' '" ;;
esac
$cat >ccsym <<EOS
$startsh
$cat >tmp.c <<EOF
extern int foo;
EOF
for i in \`$cc -v -c tmp.c 2>&1 $postprocess_cc_v\`
do
 case "\$i" in
 -D*) echo "\$i" | $sed 's/^-D//';;
 -A*) $test "$gccversion" && echo "\$i" | $sed 's/^-A//' | $sed 's/\(.*\)(\(.*\))/\1=\2/';;
 esac
done
$rm
 -f try.c
EOS
postprocess_cc_v="
```

```
chmod +x ccsym
$eunicefix ccsym
./ccsym > ccsym1.raw
?X: AIX complains if $uniq is passed an empty file.  ($sort apparently
?X: doesn't care.)  --AD  14 July 1998
if $test -s ccsym1.raw; then
	$sort ccsym1.raw | $uniq >ccsym.raw
else
	mv ccsym1.raw ccsym.raw
fi

?X: canonicalize symbols for easier sort/uniq/comm usage: append =1 if no = sign
?X: the awk script must be on two lines for older awk programs, sigh! -- ADO
$awk '/\=/ { print $0; next }
 { print $0"=1" }' ccsym.raw >ccsym.list
$awk '/\=/ { print $0; next }
 { print $0"=1" }' Cppsym.true >ccsym.true
$comm -13 ccsym.true ccsym.list >ccsym.own
$comm -12 ccsym.true ccsym.list >ccsym.com
$comm -23 ccsym.true ccsym.list >ccsym.cpp
also=''
if $test -z ccsym.raw; then
 echo "Your C compiler doesn't seem to define any symbols!" >&4
 echo " "
 echo "However, your C preprocessor defines the following symbols:"
 $cat Cppsym.true
    ccsymbols=''
 cppsymbols=`$cat Cppsym.true`
       cppsymbols=`echo
 $cppsymbols`
 cppccsymbols="$cppsymbols"
else
 if $test -s ccsym.com; then
  echo "Your C compiler and pre-processor define these symbols:"
  $sed -e 's/\(..*\)=.*/\1/' ccsym.com
  also='also '
  symbols='ones'
  cppccsymbols=`$cat ccsym.com`
  cppccsymbols=`echo $cppccsymbols`
  $test "$silent" || sleep 1
 fi
 if $test -s ccsym.cpp; then
  $test "$also" && echo " "
  echo "Your C pre-processor ${also}defines the following symbols:"
  $sed -e 's/\(..*\)=.*/\1/' ccsym.cpp
  also='further '
  cppsymbols=`$cat ccsym.cpp`
  cppsymbols=`echo $cppsymbols`
```

```
  $test "$silent" || sleep 1
 fi
 if $test -s ccsym.own; then
  $test "$also" && echo " "
  echo "Your C compiler ${also}defines the following cpp symbols:"
  $sed -e 's/\(..*\)=1/\1/' ccsym.own
  $sed -e 's/\(..*\)=.*/\1/' ccsym.own | $uniq >>Cppsym.true
        ccsymbols=`$cat ccsym.own`
        ccsymbols=`echo $ccsymbols`
  $test "$silent" || sleep 1
 fi
fi
$rm -f Cppsym.know Cppsym.true
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Cppsym.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endnetent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_endnetent_r endnetent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_endnetent_r:
?S: This variable conditionally defines the HAS_ENDNETENT_R symbol,
?S: which indicates to the C program that the endnetent_r()
?S: routine is available.
?S:.
?S:endnetent_r_proto:
?S: This variable encodes the prototype of endnetent_r.
?S: It is zero if d_endnetent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endnetent_r
?S: is defined.
?S:.
?C:HAS_ENDNETENT_R:
?C: This symbol, if defined, indicates that the endnetent_r routine
?C: is
 available to endnetent re-entrantly.
?C:.
?C:ENDNETENT_R_PROTO:
?C: This symbol encodes the prototype of endnetent_r.
```

```
?C: It is zero if d_endnetent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endnetent_r
?C: is defined.
?C:.
?H:#$d_endnetent_r HAS_ENDNETENT_R /**/
?H:#define ENDNETENT_R_PROTO $endnetent_r_proto /**/
?H:.
?T:try hdrs d_endnetent_r_proto
: see if endnetent_r exists
set endnetent_r d_endnetent_r
eval $inlibc
case "$d_endnetent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_endnetent_r_proto:$usethreads" in
 ":define") d_endnetent_r_proto=define
  set d_endnetent_r_proto endnetent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_endnetent_r_proto" in
 define)
 case "$endnetent_r_proto" in
 "|0) try='int endnetent_r(struct netent_data*);'
 ./protochk "$extern_C $try" $hdrs && endnetent_r_proto=I_D ;;
 esac
 case "$endnetent_r_proto" in
 "|0) try='void endnetent_r(struct netent_data*);'
 ./protochk
 "$extern_C $try" $hdrs && endnetent_r_proto=V_D ;;
 esac
 case "$endnetent_r_proto" in
 "|0) d_endnetent_r=undef
  endnetent_r_proto=0
  echo "Disabling endnetent_r, cannot determine prototype." >&4 ;;
 * ) case "$endnetent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) endnetent_r_proto="REENTRANT_PROTO_$endnetent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "endnetent_r has no prototype, not using it." >&4 ;;
  esac
  d_endnetent_r=undef
  endnetent_r_proto=0
  ;;
```

```
 esac
 ;;
*) endnetent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_endnetent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_mkstemp.U,v 3.0.1.1 1994/08/29 16:11:57 ram Exp $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_mkstemp.U,v $
?RCS:
?MAKE:d_mkstemp: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkstemp:
?S: This variable conditionally defines the HAS_MKSTEMP symbol, which
?S: indicates to the C program that the mkstemp() routine is available
?S: to exclusively create and open a uniquely named temporary file.
?S:.
?C:HAS_MKSTEMP :
?C: This symbol, if defined, indicates that the mkstemp routine is
?C: available to exclusively create and open a uniquely named
?C: temporary file.
?C:.
?H:#$d_mkstemp HAS_MKSTEMP  /**/
?H:.
?LINT:set d_mkstemp
: see if mkstemp exists
set mkstemp d_mkstemp
eval
 $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_mkstemp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
?RCS: Copyright (c) 2019 Karl Williamson
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_towlower: Inlibc
?MAKE: -pick add $@ %<
?S:d_towlower:
?S: This variable conditionally defines the HAS_TOWLOWER symbol, which
?S: indicates to the C program that the towlower() routine is available.
?S:.
?C:HAS_TOWLOWER:
?C: This symbol, if defined, indicates that the towlower () routine is
?C: available to do case conversion.
?C:.
?H:#$d_towlower HAS_TOWLOWER  /**/
?H:.
?LINT:set d_towlower
: see if towlower exists
set towlower d_towlower
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_towlower.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_gethname.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:13:00  ram
?RCS: patch36: call ./xenix explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:11  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_gethname d_uname d_phostname aphostname: phostname cat \
 myhostname package d_portable Loc echo n c +i_whoami +usrinc \
 Myread Guess Oldconfig Csym
```

```
?MAKE: -pick add $@ %<
?S:d_gethname:
?S: This variable conditionally defines the HAS_GETHOSTNAME symbol,
 which
?S: indicates to the C program that the gethostname() routine may be
?S: used to derive the host name.
?S:.
?S:d_uname:
?S: This variable conditionally defines the HAS_UNAME symbol, which
?S: indicates to the C program that the uname() routine may be
?S: used to derive the host name.
?S:.
?S:d_phostname:
?S: This variable conditionally defines the PHOSTNAME symbol, which
?S: contains the shell command which, when fed to popen(), may be
?S: used to derive the host name.
?S:.
?S:aphostname:
?S: Thie variable contains the command which can be used to compute the
?S: host name. The command is fully qualified by its absolute path, to make
?S: it safe when used by a process with super-user privileges.
?S:.
?C:HAS_GETHOSTNAME (GETHOSTNAME):
?C: This symbol, if defined, indicates that the C program may use the
?C: gethostname() routine to derive the host name.  See also HAS_UNAME
?C: and PHOSTNAME.
?C:.
?C:HAS_UNAME (UNAME):
?C: This symbol, if defined, indicates that the C program may
 use the
?C: uname() routine to derive the host name.  See also HAS_GETHOSTNAME
?C: and PHOSTNAME.
?C:.
?C:PHOSTNAME:
?C: This symbol, if defined, indicates that the C program may use the
?C: contents of PHOSTNAME as a command to feed to the popen() routine
?C: to derive the host name.  See also HAS_GETHOSTNAME and HAS_UNAME.
?C: Note that the command uses a fully qualified path, so that it is safe
?C: even if used by a process with super-user privileges.
?C:.
?H:#$d_gethname HAS_GETHOSTNAME /**/
?H:#$d_uname HAS_UNAME  /**/
?H:#$d_phostname PHOSTNAME "$aphostname" /* How to get the host name */
?H:.
?T:file val call
?LINT:change i_whoami
: see how we will look up host name
echo " "
```

```
if false; then
 : dummy stub to allow use of elif
@if HAS_GETHOSTNAME
elif set gethostname val -f d_gethname; eval $csym; $val; then
 echo 'gethostname() found.' >&4
 d_gethname="$define"
 call=gethostname
@end
@if HAS_UNAME
elif set uname val -f d_uname; eval $csym; $val; then
 if ./xenix; then
  $cat <<'EOM'
uname()
 was found, but you're running xenix, and older versions of xenix
have a broken uname(). If you don't really know whether your xenix is old
enough to have a broken system call, use the default answer.

EOM
  dflt=y
  case "$d_uname" in
  "$define") dflt=n;;
  esac
  rp='Is your uname() broken?'
  . ./myread
  case "$ans" in
  n*) d_uname="$define"; call=uname;;
  esac
 else
  echo 'uname() found.' >&4
  d_uname="$define"
  call=uname
 fi
@end
fi
case "$d_gethname" in
") d_gethname="$undef";;
esac
case "$d_uname" in
") d_uname="$undef";;
esac
@if PHOSTNAME || MYHOSTNAME
case "$d_uname$d_gethname" in
*define*)
 dflt=n
 cat <<EOM

Every now and then someone has a $call() that lies about the hostname
but can't be fixed for political or economic reasons.  If you wish, I can
```

```
@if MYHOSTNAME && PHOSTNAME
pretend $call() isn't there and maybe compile in the hostname or
compute it from the '$phostname' command at run-time.
@elsif MYHOSTNAME
pretend $call() isn't there and maybe compile
 in the hostname.
@elsif PHOSTNAME
pretend $call() isn't there and maybe compute hostname at run-time
thanks to the '$phostname' command.
@elsif WHOAMI
get the hostname from whomai.h (provided you have one).
@else
simply ignore your host name and use someting like "noname" instead.
@end

EOM
 rp="Shall I ignore $call() from now on?"
 . ./myread
 case "$ans" in
 y*) d_uname="$undef" d_gethname="$undef"; $echo $n "Okay...$c";;
 esac;;
esac
@end
@if PHOSTNAME || aphostname
?X: Compute the full path name for the command
case "$phostname" in
") aphostname=";;
*) case "$aphostname" in
 /*) ;;
 *) set X $phostname
  shift
  file=$1
  shift
  file=`./loc $file $file $pth`
  aphostname=`echo $file $*`
  ;;
 esac
 ;;
esac
@end
@if PHOSTNAME && MYHOSTNAME
case "$d_uname$d_gethname" in
*define*) ;;
*)
 case "$phostname" in
 ") ;;
 *)
  $cat <<EOT
```

```
There is no gethostname() or uname() on this system.  You have two
possibilities at this point:

1)  You can have your host name ($myhostname) compiled
 into $package, which
   lets $package start up faster, but makes your binaries non-portable, or
2)  you can have $package use a

 popen("$aphostname","r")

   which will start slower but be more portable.

@ if WHOAMI
Option 1 will give you the option of using whoami.h if you have one.
@ end
If you want option 2 but with a different command, you can edit config.sh at
the end of this shell script.

EOT
  case "$d_phostname" in
  "$define") dflt=n;;
  "$undef")  dflt=y;;
  ")
   case "$d_portable" in
   "$define") dflt=n ;;
   *) dflt=y ;;
   esac;;
  esac
  rp="Do you want your host name compiled in?"
  . ./myread
  case "$ans" in
  n*) d_phostname="$define" ;;
  *) aphostname=''; d_phostname="$undef";;
  esac;;
 esac
 case "$aphostname" in
 ")
@ if WHOAMI
  case "$i_whoami" in
  "$define")
   dflt=y
   $cat <<EOM

No hostname function--you can either use the whoami.h file, which has this line:

 `grep sysname $usrinc/whoami.h`
```

```
or you can have the name we came up with earlier
 ($myhostname) hardwired in.
EOM
   rp="Use whoami.h to get hostname?"
   . ./myread
   case "$ans" in
   n*) i_whoami="$undef";;
   esac
   ;;
  "$undef")
   $cat <<EOM
No hostname function and no whoami.h -- hardwiring "$myhostname".
EOM
   ;;
  esac;;
@ else
  echo 'No hostname function -- hardwiring "'$myhostname'".' >&4;;
@ end
 esac;;
esac
@elsif PHOSTNAME
case "$d_uname$d_gethname" in
*define*) ;;
*)
 case "$phostname" in
 ")
@ if WHOAMI
  case "$i_whoami" in
  "$define")
   $cat <<EOM

No hostname function--we'll use the whoami.h file, which has this line:

 `grep sysname $usrinc/whoami.h`

EOM
   ;;
  *) echo "There will be no way for $package to get your hostname." >&4;;
  esac;;
@ else
  echo "There will be no way for $package to get your hostname." >&4;;
@ end
 *)
 echo "I'll use 'popen("""$aphostname'", "r")"" to get your hostname." >&4
  ;;
 esac;;
esac
@elsif MYHOSTNAME
```

```
case "$d_uname$d_gethname" in
*define*) ;;
*)
@ if WHOAMI
 case "$i_whoami" in
 "$define")
  dflt=y
  $cat
 <<EOM

No hostname function--you can either use the whoami.h file, which has this line:

  `grep sysname $usrinc/whoami.h`

or you can have the name we came up with earlier ($myhostname) hardwired in.
EOM
  rp="Use whoami.h to get hostname?"
  . ./myread
  case "$ans" in
  n*) i_whoami="$undef";;
  esac
  ;;
 "$undef")
  echo 'No whoami.h--hardwiring "'$myhostname'".' >&4;;
 esac;;
@ else
 echo 'Hardwiring "'$myhostname'".' >&4;;
@ end
esac
@end
case "$d_phostname" in
") d_phostname="$undef";;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_gethname.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setpent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
?RCS: $Log: d_setpent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setpent: Inlibc
?MAKE: -pick add $@ %<
?S:d_setpent:
?S: This variable conditionally defines HAS_SETPROTOENT if setprotoent() is
?S: available.
?S:.
?C:HAS_SETPROTOENT:
?C: This symbol, if defined, indicates that the setprotoent() routine is
?C: available.
?C:.
?H:#$d_setpent HAS_SETPROTOENT  /**/
?H:.
?LINT:set d_setpent
: see if setprotoent
 exists
set setprotoent d_setpent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_setpent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_setitimer: Inlibc
?MAKE: -pick add $@ %<
?S:d_setitimer:
?S: This variable conditionally defines the HAS_SETITIMER symbol, which
?S: indicates to the C program that the setitimer() routine is available.
?S:.
?C:HAS_SETITIMER:
?C: This symbol, if defined, indicates that the setitimer routine is
?C: available to set interval timers.
?C:.
?H:#$d_setitimer HAS_SETITIMER  /**/
?H:.
?LINT:set d_setitimer
```

```
: see if setitimer exists
set setitimer d_setitimer
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_setitimer.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: pkgsrc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:pkgsrc: src rsrc
?MAKE: -pick add $@ %<
?S:pkgsrc:
?S: This variable holds the absolute path of the package source.
?S:.
?C:PACKAGE_SOURCE_DIR:
?C: Holds the directory name holding the package source.
?C:.
?H:#define PACKAGE_SOURCE_DIR "$pkgsrc"
?H:.
: define absolute package source directory
case "$src" in
/*) pkgsrc=$src;;
*) pkgsrc=`cd $rsrc; pwd`;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/pkgsrc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gconvert.U,v 3.0.1.3 1997/02/28 15:33:38 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_gconvert.U,v $
?RCS: Revision 3.0.1.3 1997/02/28  15:33:38  ram
?RCS: patch61: integrated new unit from perl5
?RCS:
?RCS: Revision 3.0.1.2 1995/07/25  13:55:59  ram
?RCS: patch56: improved comments about the Gconvert macro (ADO)
?RCS: patch56: force compile-link test since it may exist but be unusable (ADO)
?RCS:
?RCS: Revision 3.0.1.1 1994/10/29  16:12:51  ram
?RCS: patch36:
 created by ADO
?RCS:
?MAKE:d_Gconvert: \
 Compile cat Inlibc rm _o rm_try i_stdlib d_qgcvt run \
 uselongdouble d_longdbl d_PRIgldbl sPRIgldbl
?MAKE: -pick add $@ %<
?S:d_Gconvert:
?S: This variable holds what Gconvert is defined as to convert
?S: floating point numbers into strings.  By default, Configure
?S: sets this macro to use the first of gconvert, gcvt, or sprintf
?S: that pass sprintf-%g-like behavior tests.  If perl is using
?S: long doubles, the macro uses the first of the following
?S: functions that pass Configure's tests: qgcvt, sprintf (if
?S: Configure knows how to make sprintf format long doubles--see
?S: sPRIgldbl), gconvert, gcvt, and sprintf (casting to double).
?S: The gconvert_preference and gconvert_ld_preference variables
?S: can be used to alter Configure's preferences, for doubles and
?S: long doubles, respectively.  If present, they contain a
?S: space-separated list of one or more of the above function
?S: names in the order they should be tried.
?S:
?S: d_Gconvert
 may be set to override Configure with a platform-
?S: specific function.  If this function expects a double, a
?S: different value may need to be set by the uselongdouble.cbu
?S: call-back unit so that long doubles can be formatted without
?S: loss of precision.
?S:.
?C:Gconvert:
?C: This preprocessor macro is defined to convert a floating point
?C: number to a string without a trailing decimal point.  This
?C: emulates the behavior of sprintf("%g"), but is sometimes much more
?C: efficient.  If gconvert() is not available, but gcvt() drops the
?C: trailing decimal point, then gcvt() is used.  If all else fails,
```

```
?C: a macro using sprintf("%g") is used. Arguments for the Gconvert
?C: macro are: value, number of digits, whether trailing zeros should
?C: be retained, and the output buffer.
?C: The usual values are:
?C:  d_Gconvert='gconvert((x),(n),(t),(b))'
?C:  d_Gconvert='gcvt((x),(n),(b))'
?C:  d_Gconvert='sprintf((b),"%.*g",(n),(x))'
?C: The last two assume trailing zeros should
 not be kept.
?C:.
?H:#define Gconvert(x,n,t,b) $d_Gconvert
?H:.
?T: xxx_list xxx_convert xxx_ld_list
?F:!try
?LINT:extern gconvert_preference
?LINT:extern gconvert_ld_preference
: Check how to convert floats to strings.

if test "X$d_Gconvert" = X; then

echo " "
echo "Checking for an efficient way to convert floats to strings."
echo " " > try.c
case "$uselongdouble" in
"$define") echo "#define USE_LONG_DOUBLE" >>try.c ;;
esac
case "$d_longdbl" in
"$define") echo "#define HAS_LONG_DOUBLE" >>try.c ;;
esac
case "$d_PRIgldbl" in
"$define") echo "#define HAS_PRIgldbl"    >>try.c ;;
esac
$cat >>try.c <<EOP
#ifdef TRY_gconvert
#define Gconvert(x,n,t,b) gconvert((x),(n),(t),(b))
const char *myname = "gconvert";
#endif
#ifdef TRY_gcvt
#define Gconvert(x,n,t,b) gcvt((x),(n),(b))
const char *myname = "gcvt";
#endif
#ifdef TRY_qgcvt
#define Gconvert(x,n,t,b) qgcvt((x),(n),(b))
const char *myname = "qgcvt";
#define DOUBLETYPE long double
#endif
#ifdef TRY_sprintf
#if defined(USE_LONG_DOUBLE) &&
```

```
 defined(HAS_LONG_DOUBLE)
#ifdef HAS_PRIgldbl
#define Gconvert(x,n,t,b) sprintf((b),"%.*"$sPRIgldbl,(n),(x))
#else
#define Gconvert(x,n,t,b) sprintf((b),"%.*g",(n),(double)(x))
#endif
#else
#define Gconvert(x,n,t,b) sprintf((b),"%.*g",(n),(x))
#endif
const char *myname = "sprintf";
#endif

#ifndef DOUBLETYPE
#if defined(USE_LONG_DOUBLE) && defined(HAS_LONG_DOUBLE)
#define DOUBLETYPE long double
#else
#define DOUBLETYPE double
#endif
#endif

#include <stdio.h>

#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <string.h>

void checkit(const char *expect, char *got)
{
   if (strcmp(expect, got)) {
  printf("%s oddity:  Expected %s, got %s\n",
   myname, expect, got);
  exit(1);
 }
}

void lencheck(int expect, int got)
{
   if (expect != got) {
  printf("%s length mismatch:  Expected %d, got %d\n",
   myname, expect, got);
  exit(1);
 }
}

int main()
{
```

```
char buf[64];
buf[63] = '\0';

/* This must be 1st test on (which?) platform */
/* Alan Burlison <AlanBurlsin@unn.unisys.com>
*/
Gconvert((DOUBLETYPE)0.1, 8, 0, buf);
checkit("0.1", buf);

Gconvert((DOUBLETYPE)0.01, 8, 0, buf);
checkit("0.01", buf);

Gconvert((DOUBLETYPE)0.001, 8, 0, buf);
checkit("0.001", buf);

Gconvert((DOUBLETYPE)0.0001, 8, 0, buf);
checkit("0.0001", buf);

Gconvert((DOUBLETYPE)0.00009, 8, 0, buf);
if (strlen(buf) > 5)
   checkit("9e-005", buf); /* for Microsoft ?? */
else
   checkit("9e-05", buf);

Gconvert((DOUBLETYPE)1.0, 8, 0, buf);
checkit("1", buf);

Gconvert((DOUBLETYPE)1.1, 8, 0, buf);
checkit("1.1", buf);

Gconvert((DOUBLETYPE)1.01, 8, 0, buf);
checkit("1.01", buf);

Gconvert((DOUBLETYPE)1.001, 8, 0, buf);
checkit("1.001", buf);

Gconvert((DOUBLETYPE)1.0001, 8, 0, buf);
checkit("1.0001", buf);

Gconvert((DOUBLETYPE)1.00001, 8, 0, buf);
checkit("1.00001", buf);

Gconvert((DOUBLETYPE)1.000001, 8, 0, buf);
checkit("1.000001", buf);

Gconvert((DOUBLETYPE)0.0, 8, 0, buf);
checkit("0", buf);
```

```
 Gconvert((DOUBLETYPE)-1.0, 8, 0, buf);
 checkit("-1",
 buf);

 /* Some Linux gcvt's give 1.e+5 here. */
 Gconvert((DOUBLETYPE)100000.0, 8, 0, buf);
 checkit("100000", buf);

 /* Some Linux gcvt's give -1.e+5 here. */
 Gconvert((DOUBLETYPE)-100000.0, 8, 0, buf);
 checkit("-100000", buf);

 Gconvert((DOUBLETYPE)123.456, 8, 0, buf);
 checkit("123.456", buf);

 /* Testing of 1e+129 in bigintpm.t must not get extra '.' here. */
 Gconvert((DOUBLETYPE)1e34, 8, 0, buf);
 /* 34 should be enough to scare even long double
  * places into using the e notation. */
 if (strlen(buf) > 5)
    checkit("1e+034", buf); /* for Microsoft */
 else
    checkit("1e+34", buf);

 /* Test for an Ubuntu/Debian bug in gcvt and qgcvt. See:        *
  * https://bugs.launchpad.net/ubuntu/+source/glibc/+bug/1899553 */

 Gconvert((DOUBLETYPE)0.4, 53, 0, buf);
 lencheck(55, (int)strlen(buf));

 /* For Perl, if you add additional tests here, also add them to
  * t/base/num.t for benefit of platforms not using Configure or
  * overriding d_Gconvert */

 exit(0);
}
EOP
?X:
 List of order in which to search for functions.
?X: Usual order of efficiency is gconvert gcvt sprintf
?X: If a hint file sets a d_Gconvert="gconvert" or "gcvt" or "sprintf",
?X: then that is taken as a hint for which function to try first.
?X: (e.g. that function may be in a problematic /usr/ucblib library, and
?X: the user may or may not choose to use -lucb stuff.)
?X: Any other hint file (or previous config.sh) setting is left intact.
: first add preferred functions to our list
xxx_list=""
for xxx_convert in $gconvert_preference; do
```

```
   case $xxx_convert in
   gcvt|gconvert|sprintf) xxx_list="$xxx_list $xxx_convert" ;;
   *) echo "Discarding unrecognized gconvert_preference $xxx_convert" >&4 ;;
   esac
done
: then add any others
for xxx_convert in gconvert gcvt sprintf; do
   case "$xxx_list" in
   *$xxx_convert*) ;;
   *) xxx_list="$xxx_list $xxx_convert" ;;
   esac
done

case "$d_longdbl$uselongdouble" in
"$define$define")
   : again, add preferred functions to our
 list first
   xxx_ld_list=""
   for xxx_convert in $gconvert_ld_preference; do
       case $xxx_convert in
       qgcvt|gcvt|gconvert|sprintf) xxx_ld_list="$xxx_ld_list $xxx_convert" ;;
       *) echo "Discarding unrecognized gconvert_ld_preference $xxx_convert" ;;
       esac
   done
   : then add qgcvt, sprintf--then, in xxx_list order, gconvert and gcvt
   for xxx_convert in qgcvt sprintf $xxx_list; do
       case "$xxx_ld_list" in
       $xxx_convert*|*" $xxx_convert"*) ;;
       *) xxx_ld_list="$xxx_ld_list $xxx_convert" ;;
       esac
   done
   : if sprintf cannot do long doubles, move it to the end
   if test "$d_PRIgldbl" != "$define"; then
       xxx_ld_list="`echo $xxx_ld_list|sed s/sprintf//` sprintf"
   fi
   : if no qgcvt, remove it
   if test "$d_qgcvt" != "$define"; then
       xxx_ld_list="`echo $xxx_ld_list|sed s/qgcvt//`"
   fi
   : use the ld_list
   xxx_list="$xxx_ld_list"
   ;;
esac

for xxx_convert in $xxx_list; do
 echo "Trying $xxx_convert..."
?X:
```

```
 Do NOT use $rm_try here, as we need to keep try.c
 $rm -f try try$_o core
 set try -DTRY_$xxx_convert
 if eval $compile; then
  echo "$xxx_convert() found." >&4
  if $run ./try; then
   echo "I'll use $xxx_convert to convert floats into a string." >&4
   break;
  else
   echo "...But $xxx_convert didn't work as I expected."
   xxx_convert=''
  fi
 else
  echo "$xxx_convert NOT found." >&4
  xxx_convert=''
 fi
done

if test X$xxx_convert = X; then
   echo "*** WHOA THERE!!! ***" >&4
   echo "None of ($xxx_list)  seemed to work properly.  I'll use sprintf." >&4
   xxx_convert=sprintf
fi

case "$xxx_convert" in
gconvert) d_Gconvert='gconvert((x),(n),(t),(b))' ;;
gcvt) d_Gconvert='gcvt((x),(n),(b))' ;;
qgcvt) d_Gconvert='qgcvt((x),(n),(b))' ;;
*) case "$uselongdouble$d_longdbl$d_PRIgldbl" in
  "$define$define$define")
     d_Gconvert="sprintf((b),\"%.*\"$sPRIgldbl,(n),(x))" ;;
  "$define$define$undef")
     d_Gconvert='sprintf((b),"%.*g",(n),(double)(x))' ;;
  *) d_Gconvert='sprintf((b),"%.*g",(n),(x))'
 ;;
  esac
  ;;
esac

fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_gconvert.U
No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fegetround: Inlibc
?MAKE: -pick add $@ %<
?S:d_fegetround:
?S: This variable conditionally defines HAS_FEGETROUND if fegetround() is
?S: available to get the floating point rounding mode.
?S:.
?C:HAS_FEGETROUND:
?C: This symbol, if defined, indicates that the fegetround routine is
?C: available to return the macro corresponding to the current rounding
?C: mode.
?C:.
?H:#$d_fegetround HAS_FEGETROUND /**/
?H:.
?LINT:set d_fegetround
: see if fegetround exists
set fegetround d_fegetround
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fegetround.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libyacc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libyacc.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  16:09:19  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.3  1994/05/13  15:27:12  ram
?RCS: patch27: added byacc case (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:09:01  ram
?RCS: patch23: now uses full library path instead of -l notation
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:13:49  ram
?RCS: patch16: un-obsoleted this unit for smooth yacc compilations
?RCS:
```

```
?RCS:
 Revision 3.0  1993/08/18  12:09:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libyacc: Loc yacc libpth _a
?MAKE: -pick add $@ %<
?S:libyacc:
?S: This variable contains the argument to pass to the loader in order
?S: to get the yacc library routines.  If there is no yacc or yacc
?S: library, it is null.
?S:.
?T:xxx
: see if we should include -ly
echo " "
case "$yacc" in
*byacc*)
 echo "You are using byacc, so I won't look for a yacc library." >&4
 libyacc=''
 ;;
*yacc)
 xxx=`./loc liby$_a x $libpth`
 case "$xxx" in
 x)
  echo "No yacc library found." >&4
  libyacc=''
  ;;
 *)
  echo "yacc library found in $xxx." >&4
  libyacc="$xxx"
  ;;
 esac
 ;;
*bison*)
 echo "You are using bison, so I won't look for a yacc library." >&4
 libyacc=''
 ;;
*)
echo "You don't seem to have yacc, so I won't look for the yacc library." >&4
 libyacc=''
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/libyacc.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_ftime.U 1 2006-08-24 12:32:52Z rmanfredi $

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_ftime.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:06  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_ftime d_gettimeod: Inlibc Setvar
?MAKE: -pick add $@ %<
?S:d_ftime:
?S: This variable conditionally defines the HAS_FTIME symbol, which indicates
?S: that the ftime() routine exists.  The ftime() routine is basically
?S: a sub-second accuracy clock.
?S:.
?S:d_gettimeod:
?S: This variable conditionally defines the HAS_GETTIMEOFDAY symbol,
 which
?S: indicates that the gettimeofday() system call exists (to obtain a
?S: sub-second accuracy clock). You should probably include <sys/resource.h>.
?S:.
?C:HAS_FTIME (FTIMER):
?C: This symbol, if defined, indicates that the ftime() routine exists.
?C: It is basically a sub-second accuracy clock, but is less accurate
?C: than gettimeofday(2) anyway. The type "Timeval" should be used to
?C: refer to "struct timeb".
?C:.
?C:HAS_GETTIMEOFDAY (GETTIMEOFDAY):
?C: This symbol, if defined, indicates that the gettimeofday() system
?C: call is available for a sub-second accuracy clock. Usually, the file
?C: <sys/resource.h> needs to be included (see I_SYS_RESOURCE).
?C: The type "Timeval" should be used to refer to "struct timeval".
?C:.
?H:#$d_ftime HAS_FTIME  /**/
?H:#$d_gettimeod HAS_GETTIMEOFDAY /**/
?H:?%<:@if HAS_FTIME
?H:?%<:#ifdef HAS_FTIME
?H:?%<:#define Timeval struct timeb  /* Structure used by ftime() */
?H:?%<:#endif
?H:?%<:@end
?H:?%<:@if HAS_GETTIMEOFDAY
?H:?%<:#ifdef HAS_GETTIMEOFDAY
?H:?%<:#define
```

```
 Timeval struct timeval /* Structure used by gettimeofday() */
?H:?%<:#endif
?H:?%<:@end
?H:.
?X:FIXME
?X:?I:?d_ftime:i_systimeb
?X:?I:?d_gettimeod:i_sysresrc
?LINT:set d_gettimeod d_ftime
?LINT:known Timeval
: see if gettimeofday or ftime exists
?X:
?X: Give priority to gettimeofday(2) because timing is more accurate
?X:
set gettimeofday d_gettimeod
eval $inlibc
case "$d_gettimeod" in
"$undef")
 set ftime d_ftime
 eval $inlibc
 ;;
*)
 val="$undef"; set d_ftime; eval $setvar
 ;;
esac
case "$d_gettimeod$d_ftime" in
"$undef$undef")
 echo " "
 echo 'No ftime() nor gettimeofday() -- timing may be less accurate.' >&4
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_ftime.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Cygnus Support
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Tom Tromey <tromey@cygnus.com>
```

```
?RCS:
?RCS: $Log: src.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:23:54  ram
?RCS: patch61: created
?RCS:
?MAKE:src +rsrc: Options package contains
?MAKE: -pick add $@ %<
?Y:TOP
?S:src (srcdir):
?S: This variable holds the (possibly relative) path of the package source.
?S: It is up to the Makefile to use this variable and set VPATH accordingly
?S: to find the sources remotely.  Use $pkgsrc to have an absolute path.
?S:.
?S:rsrc
 (relsrcdir):
?S: This variable holds a potentially relative path to the package
?S: source.  The contents are correct for the configuration environment,
?S: i.e. there might be an extra .. prepended to get out of the UU dir.
?S: Configure units should use this, not the src variable.
?S:.
: Find the path to the source tree
case "$src" in
") case "$0" in
   */*) src=`echo $0 | sed -e 's%/[^/][^/]*$%%'`
        case "$src" in
  /*) ;;
  .) ;;
        *) src=`cd ../$src && pwd` ;;
  esac
        ;;
   *)   src='.';;
   esac;;
esac
case "$src" in
") src=/
 rsrc=/
 ;;
/*) rsrc="$src";;
*) rsrc="../$src";;
esac
?X:
?X: Now check whether we have found the right source tree (i.e. the one for the
?X: package we're about to configure). The original unit from Tom Tromey forced
?X: the user to pick a unique file from his distribution, and we were merely
?X: checking the existence of that file. I prefer to rely on Configure (which
?X: we know *is* present since this unit is
 part of it!) and look for the
?X: definition of the package variable, making sure it's the same as ours.
```

```
?X: If it matches, we know we found the right source tree. -- RAM, 15/03/96
?X:
if test -f $rsrc/Configure && \
 $contains "^package='$package'\$" $rsrc/Configure >/dev/null 2>&1
then
  : found it, so we are ok.
else
?X: Otherwise try "." and up to 4 parent directories...
?X: Note that we prepend a ".." to get out of the configuration environment.
 rsrc=''
 for src in . .. ../.. ../../.. ../../../..; do
  if test -f ../$src/Configure && \
   $contains "^package=$package$" ../$src/Configure >/dev/null 2>&1
  then
   rsrc=../$src
   break
  fi
 done
fi
case "$rsrc" in
'')
 cat <<EOM >&4

Sorry, I can't seem to locate the source dir for $package.  Please start
Configure with an explicit path -- i.e. /some/path/Configure.

EOM
 exit 1
 ;;
?X: Don't echo anything if the sources are in . -- they should know already ;-)
?X: In that case, rsrc is ../. since we lookup from within UU
../.) rsrc='..';;
*)
 echo
 " "
 echo "Sources for $package found in \"$src\"." >&4
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/src.U
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```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: lib.U,v $
?RCS: Revision 3.0.1.3  1995/09/25  09:16:47  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:38:08  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:27:40  ram
?RCS: patch32: now uses installation prefix to set the default
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lib libexp: Getfile
 Loc Oldconfig Prefixit Prefixup prefixexp
?MAKE: -pick add $@ %<
?Y:TOP
?S:lib:
?S: This variable holds the name of the directory in which the user wants
?S: to put public library files for the package in question.  It is most
?S: often a local directory such as /usr/local/lib. Programs using this
?S: variable must be prepared to deal with filename expansion.
?S:.
?S:libexp:
?S: This variable is the same as the lib variable, but is filename expanded
?S: at configuration time, for convenient use in your makefiles.
?S:.
: determine where public libraries go
set lib lib
eval $prefixit
case "$lib" in
")
 dflt=`./loc . "." $prefixexp/lib /usr/local/lib /usr/lib /lib`
 set dflt
 eval $prefixup
 ;;
*)  dflt="$lib";;
esac
echo " "
fn=d~
rp='Where do you want to put the public libraries?'
. ./getfile
```

```
lib="$ans"
libexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/lib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_madvise: Inlibc
?MAKE: -pick add $@ %<
?S:d_madvise:
?S: This variable conditionally defines HAS_MADVISE if madvise() is
?S: available to map a file into memory.
?S:.
?C:HAS_MADVISE:
?C: This symbol, if defined, indicates that the madvise system call is
?C: available to map a file into memory.
?C:.
?H:#$d_madvise HAS_MADVISE  /**/
?H:.
?LINT:set d_madvise
: see if madvise exists
set madvise d_madvise
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_madvise.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vaproto.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Orginal Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: vaproto.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:17:16  ram
?RCS: patch16: definition of _V now appears only when needed
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:59  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:vaproto: prototype i_stdarg Setvar
?MAKE: -pick add $@ %<
?S:vaproto:
?S: This variable conditionally defines CAN_VAPROTO on systems supporting
?S: prototype
 declaration of functions with a variable number of
?S: arguments. See also prototype.
?S:.
?C:CAN_VAPROTO ~ %<:
?C: This variable is defined on systems supporting prototype declaration
?C: of functions with a variable number of arguments.
?C:.
?C:_V:
?C: This macro is used to declare function parameters in prototypes for
?C: functions with a variable number of parameters. Use double parentheses.
?C: For example:
?C:
?C:  int printf _V((char *fmt, ...));
?C:
?C: Remember to use the plain simple _() macro when declaring a function
?C: with no variable number of arguments, since it might be possible to
?C: have a non-effect _V() macro and still get prototypes via _().
?C:.
?H:?%<:#$vaproto CAN_VAPROTO /**/
?H:?_V:#ifdef CAN_VAPROTO
?H:?_V:#define _V(args) args
?H:?_V:#else
?H:?_V:#define _V(args) ()
?H:?_V:#endif
?H:.
?W:%<:_V
?LINT:set vaproto
: see if prototypes support variable argument declarations
echo " "
case "$prototype$i_stdarg" in
$define$define)
 echo "It appears we'll
```

```
 be able to prototype varargs functions." >&4
 val="$define"
 ;;
*)
 echo "Too bad... We won't be using prototyped varargs functions..." >&4
 val="$undef"
 ;;
esac
set vaproto
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/vaproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Setprefixvar.U,v 3.0 2006/04/01 17:25:29 hmbrand $
?RCS:
?RCS: Copyright (c) 2006-2006, H.Merijn Brand & Nicholas Clark
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:   You may distribute under the terms of either the GNU General Public
?RCS:   License or the Artistic License, as specified in the README file.
?RCS:
?X:
?X: This unit sets up the scripts installprefix and setprefixvar, so code
?X: in other parts can be more simple and maintainable
?X:
?MAKE:Setprefixvar: Myread Getfile startsh eunicefix test \
 prefix prefixexp installprefix installprefixexp
?MAKE: -pick add $@ %<
?LINT:extern prefixvar
?X: metalint still sees "`\$${prefixvar}exp`" as variable :(
?T:prefixvarexp
?F:./setprefixvar
?F:./installprefix
: Perform
 the prefixexp/installprefixexp correction if necessary
cat <<EOS >installprefix
$startsh
EOS
cat <<'EOSC' >>installprefix
: Change installation prefix, if necessary.
if $test X"$prefix" != X"$installprefix"; then
   eval "install${prefixvar}=\`echo \$${prefixvar}exp | sed \"s#^\$prefixexp#\$installprefixexp#\"\`"
```

```
else
   eval "install${prefixvar}=\"\$${prefixvar}exp\""
fi
EOSC
chmod +x installprefix
$eunicefix installprefix

: Set variables such as privlib and privlibexp from the output of ./getfile
: performing the prefixexp/installprefixexp correction if necessary.
cat <<EOS >setprefixvar
$startsh
EOS
cat <<'EOSC' >>setprefixvar
eval "${prefixvar}=\"\$ans\""
eval "${prefixvar}exp=\"\$ansexp\""
. ./installprefix
EOSC
chmod +x setprefixvar
$eunicefix setprefixvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/Setprefixvar.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setservent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_setservent_r setservent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_setservent_r:
?S: This variable conditionally defines the HAS_SETSERVENT_R symbol,
?S: which indicates to the C program that the setservent_r()
?S: routine is available.
?S:.
?S:setservent_r_proto:
?S: This variable encodes the prototype of setservent_r.
?S: It is zero if d_setservent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setservent_r
?S: is defined.
?S:.
?C:HAS_SETSERVENT_R:
```

```
?C: This symbol, if defined, indicates that the setservent_r routine
?C: is
 available to setservent re-entrantly.
?C:.
?C:SETSERVENT_R_PROTO:
?C: This symbol encodes the prototype of setservent_r.
?C: It is zero if d_setservent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setservent_r
?C: is defined.
?C:.
?H:#$d_setservent_r HAS_SETSERVENT_R /**/
?H:#define SETSERVENT_R_PROTO $setservent_r_proto /**/
?H:.
?T:try hdrs d_setservent_r_proto
: see if setservent_r exists
set setservent_r d_setservent_r
eval $inlibc
case "$d_setservent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_setservent_r_proto:$usethreads" in
 ":define") d_setservent_r_proto=define
  set d_setservent_r_proto setservent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_setservent_r_proto" in
 define)
 case "$setservent_r_proto" in
 "|0) try='int setservent_r(int, struct servent_data*);'
 ./protochk "$extern_C $try" $hdrs && setservent_r_proto=I_ID ;;
 esac
 case "$setservent_r_proto" in
 "|0) try='void
 setservent_r(int, struct servent_data*);'
 ./protochk "$extern_C $try" $hdrs && setservent_r_proto=V_ID ;;
 esac
 case "$setservent_r_proto" in
 "|0) d_setservent_r=undef
  setservent_r_proto=0
  echo "Disabling setservent_r, cannot determine prototype." >&4 ;;
 * ) case "$setservent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) setservent_r_proto="REENTRANT_PROTO_$setservent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
```

```
 *) case "$usethreads" in
  define) echo "setservent_r has no prototype, not using it." >&4 ;;
  esac
  d_setservent_r=undef
  setservent_r_proto=0
  ;;
 esac
 ;;
*) setservent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_setservent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ctermid_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_ctermid_r ctermid_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads extern_C
?MAKE: -pick add $@ %<
?S:d_ctermid_r:
?S: This variable conditionally defines the HAS_CTERMID_R symbol,
?S: which indicates to the C program that the ctermid_r()
?S: routine is available.
?S:.
?S:ctermid_r_proto:
?S: This variable encodes the prototype of ctermid_r.
?S: It is zero if d_ctermid_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_ctermid_r
?S: is defined.
?S:.
?C:HAS_CTERMID_R:
?C: This symbol, if defined, indicates that the ctermid_r routine
?C: is available to ctermid re-entrantly.
?C:.
?C:CTERMID_R_PROTO:
?C: This
 symbol encodes the prototype of ctermid_r.
?C: It is zero if d_ctermid_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_ctermid_r
```

```
?C: is defined.
?C:.
?H:#$d_ctermid_r HAS_CTERMID_R /**/
?H:#define CTERMID_R_PROTO $ctermid_r_proto /**/
?H:.
?T:try hdrs d_ctermid_r_proto
: see if ctermid_r exists
set ctermid_r d_ctermid_r
eval $inlibc
case "$d_ctermid_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h "
 case "$d_ctermid_r_proto:$usethreads" in
 ":define") d_ctermid_r_proto=define
  set d_ctermid_r_proto ctermid_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_ctermid_r_proto" in
 define)
 case "$ctermid_r_proto" in
 "|0) try='char* ctermid_r(char*);'
 ./protochk "$extern_C $try" $hdrs && ctermid_r_proto=B_B ;;
 esac
 case "$ctermid_r_proto" in
 "|0) d_ctermid_r=undef
  ctermid_r_proto=0
  echo "Disabling ctermid_r, cannot determine prototype." >&4 ;;
 * ) case "$ctermid_r_proto" in
  REENTRANT_PROTO*) ;;
  *)
 ctermid_r_proto="REENTRANT_PROTO_$ctermid_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "ctermid_r has no prototype, not using it." >&4 ;;
  esac
  d_ctermid_r=undef
  ctermid_r_proto=0
  ;;
 esac
 ;;
*) ctermid_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_ctermid_r.U
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```
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_mbrtowc: Inlibc
?MAKE: -pick add $@ %<
?S:d_mbrtowc:
?S: This variable conditionally defines the HAS_MBRTOWC symbol if the
?S: mbrtowc() routine is available to be used to convert a multi-byte
?S: character into a wide character.
?S:.
?C:HAS_MBRTOWC:
?C: This symbol, if defined, indicates that the mbrtowc routine is
?C: available to convert a multi-byte character into a wide character.
?C:.
?H:#$d_mbrtowc HAS_MBRTOWC /**/
?H:.
?LINT: set d_mbrtowc
: see if mbrtowc exists
set mbrtowc d_mbrtowc
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_mbrtowc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Inlibc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Inlibc.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  15:55:08  ram
```

```
?RCS: patch36: call ./whoa explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit checks for the definition of a given function.
?X:
?X: To use it, say:
?X: set function d_func
?X: eval $inlibc
?X:
?MAKE:Inlibc: Csym Whoa Oldconfig
?MAKE: -pick add $@ %<
?LINT:define inlibc
?V:inlibc
?S:inlibc:
?S: This
 shell variable is used internally by Configure to check
?S: wether a given function is defined or not. A typical use is:
?S:  set function d_func
?S:  eval $inlibc
?S: That will print a message, saying wether function was found or
?S: not and set d_func accordingly.
?S:.
?T:was tx sym tres td tu var
: define an is-in-libc? function
inlibc='echo " "; td=$define; tu=$undef;
sym=$1; var=$2; eval "was=\$$2";
tx=yes;
case "$reuseval$was" in
true) ;;
true*) tx=no;;
esac;
case "$tx" in
yes)
 set $sym tres -f;
 eval $csym;
 case "$tres" in
 true)
  echo "$sym() found." >&4;
  case "$was" in $undef) . ./whoa; esac; eval "$var=\$td";;
 *)
  echo "$sym() NOT found." >&4;
  case "$was" in $define) . ./whoa; esac; eval "$var=\$tu";;
 esac;;
*)
 case "$was" in
```

```
 $define) echo "$sym() found." >&4;;
 *) echo "$sym() NOT found." >&4;;
 esac;;
esac'
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Inlibc.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_portable.U,v $
?RCS: Revision 3.0.1.2  1995/01/11  15:28:52  ram
?RCS: patch45: executable path stripping moved to the end in Config_sh.U
?RCS:
?RCS: Revision 3.0.1.1  1993/12/15  08:21:17  ram
?RCS: patch15: did not strip variables properly when needed
?RCS: patch15: now also strips down variables from trylist
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The Loc unit is wanted to get the definition of all the locating variables.
?X:
?MAKE:d_portable:
 cat Loc Myread Oldconfig
?MAKE: -pick add $@ %<
?S:d_portable:
?S: This variable conditionally defines the PORTABLE symbol, which
?S: indicates to the C program that it should not assume that it is
?S: running on the machine it was compiled on.
?S:.
?C:PORTABLE:
?C: This symbol, if defined, indicates to the C program that it should
?C: not assume that it is running on the machine it was compiled on.
?C: The program should be prepared to look up the host name, translate
?C: generic filenames, use PATH, etc.
?C:.
```

```
?H:#$d_portable PORTABLE /**/
?H:.
?D:d_portable="
: decide how portable to be
case "$d_portable" in
"$define") dflt=y;;
*) dflt=n;;
esac
$cat <<'EOH'

I can set things up so that your shell scripts and binaries are more portable,
at what may be a noticable cost in performance.  In particular, if you
ask to be portable, the following happens:

    1) Shell scripts will rely on the PATH variable rather than using
 the paths derived above.
    2) ~username
 interpretations will be done at run time rather than
 by Configure.
@if PHOSTNAME
    3) The system name will be determined at run time, if at all possible.
@end

EOH
rp="Do you expect to run these scripts and binaries on multiple machines?"
. ./myread
case "$ans" in
 y*) d_portable="$define"
?X:
?X: Paths will be stripped down (/usr/bin/vi -> vi) in Config_sh.U if needed.
?X:
 ;;
 *)  d_portable="$undef" ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_portable.U
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```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cf_who.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:28:50  ram
?RCS: patch61: new computation method avoiding use of temporary file
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:42:34  ram
?RCS: patch23: login name now computed the hard way
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:32  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Oldconfig dependency is there to ensure computation occurs after old values
?X: from config.sh have been loaded, so that we can supersede them.
?X:
?MAKE:cf_time
 cf_by: date Oldconfig
?MAKE: -pick add $@ %<
?S:cf_time:
?S: Holds the output of the "date" command when the configuration file was
?S: produced. This is used to tag both config.sh and config_h.SH.
?S:.
?S:cf_by:
?S: Login name of the person who ran the Configure script and answered the
?S: questions. This is used to tag both config.sh and config_h.SH.
?S:.
?LINT:change LC_ALL LANGUAGE
: who configured the system
?X: Ensure English date -- Jarkko Hietaniemi
cf_time=`LC_ALL=C; LANGUAGE=C; export LC_ALL; export LANGUAGE; $date 2>&1`
?X:
?X: Leave a white space between first two '(' for ksh. The sub-shell is needed
?X: on some machines to avoid the error message when logname is not found; e.g.
?X: on SUN-OS 3.2, (logname || whoami) would not execute whoami if logname was
?X: not found. Sigh!
?X:
?X: Convex had a broken logname executable which returned a non-zero status,
?X: and that broke the previous:
?X:   cf_by=`( (logname) 2>/dev/null || whoami) 2>&1`
?X: Switch to emergency
 mode... -- RAM, 19/04/94
?X:
?X: Parentheses needed to avoid error message if the program does not exist.
?X: Uses case instead of $test so it can be put before $test is defined.
?X: Don't redirect to a file because on Ultrix (under script?) logname
?X: outputs a blank line first.  This method will apparently work.
case "$cf_by" in
```

```
"")
 cf_by=`(logname) 2>/dev/null`
 case "$cf_by" in
 "")
  cf_by=`(whoami) 2>/dev/null`
  case "$cf_by" in
  "") cf_by=unknown ;;
  esac ;;
 esac ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/cf_who.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_gconvert.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:33:38  ram
?RCS: patch61: integrated new unit from perl5
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  13:55:59  ram
?RCS: patch56: improved comments about the Gconvert macro (ADO)
?RCS: patch56: force compile-link test since it may exist but be unusable (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:12:51  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_Gconvert:
 cat cc ccflags ldflags libs rm_try _o
?MAKE: -pick add $@ %<
?S:d_Gconvert:
?S: This variable holds what Gconvert is defined as to convert
?S: floating point numbers into strings. It could be 'gconvert'
?S: or a more complex macro emulating gconvert with gcvt() or sprintf.
?S:.
?C:Gconvert:
```

```
?C: This preprocessor macro is defined to convert a floating point
?C: number to a string without a trailing decimal point.  This
?C: emulates the behavior of sprintf("%g"), but is sometimes much more
?C: efficient.  If gconvert() is not available, but gcvt() drops the
?C: trailing decimal point, then gcvt() is used.  If all else fails,
?C: a macro using sprintf("%g") is used. Arguments for the Gconvert
?C: macro are: value, number of digits, whether trailing zeros should
?C: be retained, and the output buffer.
?C: Possible values are:
?C:  d_Gconvert='gconvert((x),(n),(t),(b))'
?C:  d_Gconvert='gcvt((x),(n),(b))'
?C:  d_Gconvert='sprintf((b),"%.*g",(n),(x))'
?C: The last two assume trailing zeros should
 not be kept.
?C:.
?H:#define Gconvert(x,n,t,b) $d_Gconvert
?H:.
?T: xxx_list xxx_convert
?F:!try
?X:
: Check how to convert floats to strings.
echo " "
echo "Checking for an efficient way to convert floats to strings."
?X: We want to be sure to drop trailing decimal points (perl5
?X: needs this).
$cat >try.c <<'EOP'
#ifdef TRY_gconvert
#define Gconvert(x,n,t,b) gconvert((x),(n),(t),(b))
char *myname = "gconvert";
#endif
#ifdef TRY_gcvt
#define Gconvert(x,n,t,b) gcvt((x),(n),(b))
char *myname = "gcvt";
#endif
#ifdef TRY_sprintf
#define Gconvert(x,n,t,b) sprintf((b),"%.*g",(n),(x))
char *myname = "sprintf";
#endif

#include <stdio.h>

int
checkit(expect, got)
char *expect;
char *got;
{
   if (strcmp(expect, got)) {
  printf("%s oddity:  Expected %s, got %s\n",
```

```
   myname, expect, got);
  exit(1);
 }
}

int
int main()
{
 char buf[64];
 buf[63] = '\0';

 /* This must be 1st test on (which?) platform */
 /* Alan Burlison <AlanBurlsin@unn.unisys.com> */
 Gconvert(0.1, 8, 0, buf);
 checkit("0.1",
 buf);

 Gconvert(1.0, 8, 0, buf);
 checkit("1", buf);

 Gconvert(0.0, 8, 0, buf);
 checkit("0", buf);

 Gconvert(-1.0, 8, 0, buf);
 checkit("-1", buf);

 /* Some Linux gcvt's give 1.e+5 here. */
 Gconvert(100000.0, 8, 0, buf);
 checkit("100000", buf);

 /* Some Linux gcvt's give -1.e+5 here. */
 Gconvert(-100000.0, 8, 0, buf);
 checkit("-100000", buf);

 exit(0);
}
EOP
?X: List of order in which to search for functions.
?X: Usual order of efficiency is gconvert gcvt sprintf
?X: Respect a previous or hinted value.
case "$d_Gconvert" in
gconvert*) xxx_list='gconvert gcvt sprintf' ;;
gcvt*) xxx_list='gcvt gconvert sprintf' ;;
sprintf*) xxx_list='sprintf gconvert gcvt' ;;
*) xxx_list='gconvert gcvt sprintf' ;;
esac

for xxx_convert in $xxx_list; do
```

```
 echo "Trying $xxx_convert"
 $rm_try
 if $cc $ccflags -DTRY_$xxx_convert $ldflags -o try \
  try.c $libs > /dev/null 2>&1 ; then
  echo "$xxx_convert" found. >&4
  if ./try; then
   echo "I'll use $xxx_convert to convert floats
 into a string." >&4
   break;
  else
   echo "...But $xxx_convert didn't work as I expected."
  fi
 else
  echo "$xxx_convert NOT found." >&4
 fi
done

case "$xxx_convert" in
gconvert) d_Gconvert='gconvert((x),(n),(t),(b))' ;;
gcvt) d_Gconvert='gcvt((x),(n),(b))' ;;
*) d_Gconvert='sprintf((b),"%.*g",(n),(x))' ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_gconvert.U
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```
?RCS: $Id: d_waitpid.U 1 2006-08-24 12:32:52Z rmanfredi $
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_waitpid.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_waitpid: Inlibc
?MAKE: -pick add $@ %<
?S:d_waitpid:
?S: This variable conditionally defines HAS_WAITPID if waitpid() is
?S: available to wait for child process.
?S:.
```

```
?C:HAS_WAITPID (WAITPID):
?C: This symbol, if defined, indicates that the waitpid routine is
?C: available to wait for child process.
?C:.
?H:#$d_waitpid HAS_WAITPID /**/
?H:.
?LINT:set
 d_waitpid
: see if waitpid exists
set waitpid d_waitpid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_waitpid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sbrksmart.U,v $
?RCS: Revision 3.0.1.2  1995/01/11  15:35:41  ram
?RCS: patch45: now sets sbrksmart to undef explicitly when lacking sbrk()
?RCS: patch45: forgot a cast when using return value from sbrk()
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:16:45  ram
?RCS: patch16: created
?RCS:
?MAKE:sbrksmart: cat d_sbrk +cc +ccflags +libs rm
?MAKE: -pick add $@ %<
?S:sbrksmart:
?S: This variable conditionally defines HAS_SMART_SBRK if the sbrk()
?S: routine honors a negative argument to lower the break
 value.
?S:.
?C:HAS_SMART_SBRK:
?C: This symbol is defined when the sbrk() system call may be used with
?C: a negative argument to lower the break value, therefore releasing
?C: core to the system. If not, you'd probably be better off using the
?C: mmap() system call.
?C:.
```

```
?H:#$sbrksmart HAS_SMART_SBRK /**/
?H:.
?T:dumb
?F:!sbrk
: see whether sbrk can release core to the kernel
echo " "
case "$d_sbrk" in
"$define")
 echo "Let's see if your sbrk() is smart enough to release core..." >&4
 $cat > sbrk.c <<EOC
#define INC 256  /* Small enough to be less than a page size */

int main()
{
 char *obrk = (char *) sbrk(0);
 char *nbrk;

 nbrk = (char *) sbrk(INC);
 if (nbrk == (char *) -1)
  exit(1); /* Not enough memory */
 if (nbrk != obrk)
  exit(2); /* Unreliable sbrk() */
 nbrk = (char *) sbrk(-INC);
 if (nbrk == (char *) -1)
  exit(3); /* May have understood negative arg as huge positive */
 if (obrk != (char *) sbrk(0))
  exit(4); /* Not smart, definitely */

 exit(0);  /* Ok */
}
EOC
 sbrksmart="$undef"
 dumb='--
 assuming dumb sbrk().'
 if $cc $ccflags -o sbrk sbrk.c $libs >/dev/null 2>&1; then
  ./sbrk >/dev/null 2>&1
  case $? in
  0) sbrksmart="$define"
   echo "Yes, it can be used with negative values." ;;
  1) echo "Sorry, not enough memory $dumb" ;;
  2) echo "No it's not, and besides it seems to be buggy..." ;;
  3) echo "No, it fails with negative values." ;;
  4) echo "Nope, your sbrk() is too dumb." ;;
  *) echo "Err... Unexpected result $dumb" ;;
  esac
 else
  echo "(Could not compile test program $dumb)"
 fi
```

```
 ;;
*)
 echo "Since you don't have sbrk(), let's forget about the smart test!"
 sbrksmart="$undef"
 ;;
esac
$rm -f sbrk sbrk.* core
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/sbrksmart.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorman1dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorman1dir.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorman1dir vendorman1direxp installvendorman1dir: man1dir Getfile \
 Oldconfig Setprefixvar Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorman1dir:
?S: This variable contains the name of the directory for man1
?S: pages.  It may have a ~ on the front.
?S: The standard distribution will put nothing in this directory.
?S: Vendors
 who distribute perl may wish to place their own
?S: man1 pages in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorman1direxp:
?S: This variable is the ~name expanded version of vendorman1dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorman1dir=''
?S:installvendorman1dir:
?S: This variable is really the same as vendorman1direxp but may differ on
```

```
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorman1dir
: Set the vendorman1dir variables
case "$vendorprefix" in
") vendorman1dir="
 vendorman1direxp="
 ;;
*) : determine where vendor-supplied manual pages go.
 case "$vendorman1dir" in
 ") dflt=`echo "$man1dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
 *) dflt=$vendorman1dir ;;
 esac
 case "$dflt" in
 "|' ') dflt=none ;;
 esac
 fn=nd~+
 rp='Pathname for
 the vendor-supplied manual section 1 pages?'
 . ./getfile
 vendorman1dir="$ans"
 vendorman1direxp="$ansexp"
 ;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorman1dir" = "X" && vendorman1dir=' '
prefixvar=vendorman1dir
. ./installprefix
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/vendorman1dir.U
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```
?RCS: $Id: Oldsym.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Oldsym.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:06:58  ram
```

```
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit follows the creation of the config.sh file. It adds some
?X: special symbols: defines from patchlevel.h file if any and PERL_CONFIG_SH,
?X: which is set to true. Then, we try to keep all the new symbols that
?X: may come from a hint
 file or a previous config.sh file.
?X:
?MAKE:Oldsym: Config_sh cat test hint src sed sort uniq perl_patchlevel
?MAKE: -pick add $@ %<
?T:PERL_CONFIG_SH PERL_PATCHLEVEL sym tmp
?F:!UU
: add special variables
$test -f $src/patchlevel.h && \
awk '/^#define[  ]+PERL_/ {printf "%s=%s\n",$2,$3}' $src/patchlevel.h >>config.sh
echo "PERL_PATCHLEVEL='$perl_patchlevel'" >>config.sh
echo "PERL_CONFIG_SH=true" >>config.sh

: propagate old symbols
if $test -f UU/config.sh; then
?X: Make sure each symbol is unique in oldconfig.sh
 <UU/config.sh $sort | $uniq >UU/oldconfig.sh
?X:
?X: All the symbols that appear twice come only from config.sh (hence the
?X: two config.sh in the command line). These symbols will be removed by
?X: the uniq -u command. The oldsyms file thus contains all the symbols
?X: that did not appear in the produced config.sh (Larry Wall).
?X:
?X: Do not touch the -u flag of uniq.  This means you too, Jarkko.
?X:
 $sed -n 's/^\([a-zA-Z_0-9]*\)=.*/\1/p' \
  config.sh config.sh UU/oldconfig.sh
 |\
  $sort | $uniq -u >UU/oldsyms
 set X `$cat UU/oldsyms`
 shift
 case $# in
 0) ;;
 *)
  $cat <<EOM
Hmm...You had some extra variables I don't know about...I'll try to keep 'em...
EOM
  echo ": Variables propagated from previous config.sh file." >>config.sh
  for sym in `$cat UU/oldsyms`; do
```

```
   echo "    Propagating $hint variable "'$"'$sym..."
   eval 'tmp="$"'${sym}"'"'
   echo "$tmp" | \
    sed -e "s/'/'\"'\"'/g" -e "s/^/$sym='/" -e "s/$/'/" >>config.sh
  done
  ;;
 esac
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Oldsym.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fchmod.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_fchmod.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:59  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_fchmod: Inlibc
?MAKE: -pick add $@ %<
?S:d_fchmod:
?S: This variable conditionally defines the HAS_FCHMOD symbol, which
?S: indicates to the C program that the fchmod() routine is available
?S: to change mode of opened files.
?S:.
?C:HAS_FCHMOD (FCHMOD):
?C: This symbol, if defined, indicates that the fchmod routine is available
?C: to
 change mode of opened files.  If unavailable, use chmod().
?C:.
?H:#$d_fchmod HAS_FCHMOD  /**/
?H:.
?LINT:set d_fchmod
: see if fchmod exists
set fchmod d_fchmod
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_fchmod.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: groupstype.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: groupstype.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:18:08  ram
?RCS: patch36: no longer uses Setvar to set 'groupstype' (ADO)
?RCS: patch36: typo fix in the word 'argument' (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:00:18  ram
?RCS: patch30: created by ADO
?RCS:
?MAKE:groupstype: gidtype d_getgrps Myread Oldconfig Findhdr cat d_setgrps
?MAKE: -pick add $@ %<
?INIT:groupstype=''
?S:groupstype:
?S: This
 variable defines Groups_t to be something like gid_t, int,
?S: ushort, or whatever type is used for the second argument to
?S: getgroups() and setgroups().  Usually, this is the same as
?S: gidtype (gid_t), but sometimes it isn't.
?S:.
?C:Groups_t (GROUPSTYPE):
?C: This symbol holds the type used for the second argument to
?C: getgroups() and setgroups().  Usually, this is the same as
?C: gidtype (gid_t) , but sometimes it isn't.
?C: It can be int, ushort, gid_t, etc...
?C: It may be necessary to include <sys/types.h> to get any
?C: typedef'ed information.  This is only required if you have
?C: getgroups() or setgroups()..
?C:.
?H:?%<:#if defined(HAS_GETGROUPS) || defined(HAS_SETGROUPS)
?H:?%<:#define Groups_t $groupstype /* Type for 2nd arg to [sg]etgroups() */
?H:?%<:#endif
?H:.
?W:%<:getgroups HAS_GETGROUPS setgroups HAS_SETGROUPS
```

```
: Find type of 2nd arg to 'getgroups()' and 'setgroups()'
echo " "
case "$d_getgrps$d_setgrps" in
*define*)
 case
 "$groupstype" in
 ") dflt="$gidtype" ;;
 *)  dflt="$groupstype" ;;
 esac
 $cat <<EOM
What type of pointer is the second argument to getgroups() and setgroups()?
Usually this is the same as group ids, $gidtype, but not always.

EOM
 rp='What type pointer is the second argument to getgroups() and setgroups()?'
 . ./myread
 groupstype="$ans"
 ;;
*)  groupstype="$gidtype";;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/groupstype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_castneg.U,v $
?RCS: Revision 3.0.1.2  1995/05/12  12:11:21  ram
?RCS: patch54: made sure cc and ccflags are conditional dependencies
?RCS: patch54: added improved test case for Interactive Unix
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:10:50  ram
?RCS: patch36: don't forget to tell user about compilation failures (ADO)
?RCS: patch36: declare signal handler correctly using 'signal_t' (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?X:
?X: Can
 the compiler cast negative / odd floats to unsigned values.
?X:
?MAKE:d_castneg castflags: cat +cc +ccflags rm_try Setvar signal_t
?MAKE: -pick add $@ %<
?S:d_castneg:
?S: This variable conditionally defines CASTNEG, which indicates
?S: wether the C compiler can cast negative float to unsigned.
?S:.
?S:castflags:
?S: This variable contains a flag that precise difficulties the
?S: compiler has casting odd floating values to unsigned long:
?S:  0 = ok
?S:  1 = couldn't cast < 0
?S:  2 = couldn't cast >= 0x80000000
?S:  4 = couldn't cast in argument expression list
?S:.
?C:CASTNEGFLOAT:
?C: This symbol is defined if the C compiler can cast negative
?C: numbers to unsigned longs, ints and shorts.
?C:.
?C:CASTFLAGS:
?C: This symbol contains flags that say what difficulties the compiler
?C: has casting odd floating values to unsigned long:
?C:  0 = ok
?C:  1 = couldn't cast < 0
?C:  2 = couldn't cast >= 0x80000000
?C:  4 = couldn't cast in argument expression list
?C:.
?H:#$d_castneg CASTNEGFLOAT  /**/
?H:#define
 CASTFLAGS $castflags  /**/
?H:.
?F:!try
?LINT:set d_castneg
: check for ability to cast negative floats to unsigned
echo " "
echo 'Checking whether your C compiler can cast negative float to unsigned.' >&4
$cat >try.c <<EOCP
#include <sys/types.h>
#include <signal.h>
$signal_t blech() { exit(7); }
$signal_t blech_in_list() { exit(4); }
unsigned long dummy_long(p) unsigned long p; { return p; }
unsigned int dummy_int(p) unsigned int p; { return p; }
unsigned short dummy_short(p) unsigned short p; { return p; }
int main()
```

```
{
 double f = -123.;
 unsigned long along;
 unsigned int aint;
 unsigned short ashort;
 int result = 0;

 signal(SIGFPE, blech);
 along = (unsigned long)f;
 aint = (unsigned int)f;
 ashort = (unsigned short)f;
 if (along != (unsigned long)-123)
  result |= 1;
 if (aint != (unsigned int)-123)
  result |= 1;
 if (ashort != (unsigned short)-123)
  result |= 1;
 f = (double)0x40000000;
 f = f + f;
 along = 0;
 along = (unsigned long)f;
 if
 (along != 0x80000000)
  result |= 2;
 f -= 1.;
 along = 0;
 along = (unsigned long)f;
 if (along != 0x7fffffff)
  result |= 1;
 f += 2.;
 along = 0;
 along = (unsigned long)f;
 if (along != 0x80000001)
  result |= 2;
 if (result)
  exit(result);
?X:
?X: The following is a test for Interactive Unix Version 4.1, which
?X: has an 'improved' compiler which can correctly cast negative
?X: floats in expression lists, but apparently not in argument lists.
?X: Contributed by Winfried Koenig <win@incom.rhein-main.de>
?X:
 signal(SIGFPE, blech_in_list);
 f = 123.;
 along = dummy_long((unsigned long)f);
 aint = dummy_int((unsigned int)f);
 ashort = dummy_short((unsigned short)f);
 if (along != (unsigned long)123)
```

```
  result |= 4;
 if (aint != (unsigned int)123)
  result |= 4;
 if (ashort != (unsigned short)123)
  result |= 4;
 exit(result);

}
EOCP
if $cc $ccflags -o try try.c >/dev/null 2>&1; then
 ./try
 castflags=$?
else
 echo "(I can't seem to compile the test program--assuming it can't)"
 castflags=7
fi
case
 "$castflags" in
0) val="$define"
 echo "Yup, it can."
 ;;
*) val="$undef"
 echo "Nope, it can't."
 ;;
esac
set d_castneg
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_castneg.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strccmp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strccmp.U,v $
?RCS: Revision 3.0.1.2  1994/05/06  14:54:34  ram
?RCS: patch23: fixed a typo (WED)
?RCS:
```

```
?RCS: Revision 3.0.1.1  1993/09/13  16:04:39  ram
?RCS: patch10: created (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strccmp: Inlibc
?MAKE: -pick add $@ %<
?S:d_strccmp:
?S: This variable conditionally defines the HAS_STRCASECMP symbol, which
?S: indicates to the C program
 that the strcasecmp() routine is available
?S: for case-insensitive string compares.
?S:.
?C:HAS_STRCASECMP:
?C: This symbol, if defined, indicates that the strcasecmp() routine is
?C: available for case-insensitive string compares.
?C:.
?H:#$d_strccmp HAS_STRCASECMP /**/
?H:.
?LINT:set d_strccmp
: see if strcasecmp exists
set strcasecmp d_strccmp
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strccmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: baserev.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: baserev.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:baserev: Null
?MAKE: -pick wipe $@ %<
?S:baserev:
?S: The base revision level of this package, from the .package file.
```

```
?S:.
: set the base revision
baserev=<BASEREV>
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/baserev.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: newslib.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: newslib.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:23  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:newslib newslibexp: test inews Oldconfig Getfile
?MAKE: -pick add $@ %<
?S:newslib:
?S: This variable contains the eventual value of the NEWSLIB symbol,
?S: which holds the name of the directory serving as the news library.
?S: It may have a ~ on the front.  See newslibexp for expanded version.
?S:.
?S:newslibexp:
?S: This variable contains
 the ~ expanded name of the news library
?S: directory.  See newslib.
?S:.
?C:NEWSLIB:
?C: This symbol contains the name of the directory serving as the news
?C: library.  The program must be prepared to do ~ expansion on it.
?C:.
?C:NEWSLIB_EXP:
?C: This symbol is the ~ expanded version of NEWSLIB, for programs that
?C: do not wish to deal with it at run-time.
?C:.
?H:#define NEWSLIB "$newslib"  /**/
?H:#define NEWSLIB_EXP "$newslibexp" /**/
?H:.
?LINT:change inews
: figure out news library
```

```
case "$newslib" in
")
 dflt=/usr/lib/news
 ;;
*)  dflt=$newslib ;;
esac
echo " "
fn=d~
rp='Where is your news library?'
. ./getfile
newslib="$ans"
newslibexp="$ansexp"
if $test -f $newslibexp/inews; then
 echo "Aha!  Inews is really in $newslibexp!  Maybe this is 2.10.2..." >&4
 case "$inews" in
 inews)
  : null
  ;;
 *) echo "(Make sure $inews isn't an old version.)";;
 esac
 inews=$newslibexp/inews
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/newslib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_mntent.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_mntent: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_mntent:
?S: This variable conditionally defines the I_MNTENT symbol, and indicates
?S: whether a C program should include <mntent.h>.
?S:.
?C:I_MNTENT:
?C: This symbol, if defined, indicates that <mntent.h> exists and
?C: should be included.
?C:.
?H:#$i_mntent I_MNTENT  /**/
?H:.
?LINT:set i_mntent
```

```
: see if this is a mntent.h system
set mntent.h i_mntent
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_mntent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_flexfnam.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_flexfnam.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_flexfnam: cat rm test Setvar
?MAKE: -pick add $@ %<
?S:d_flexfnam:
?S: This variable conditionally defines the FLEXFILENAMES symbol, which
?S: indicates that the system supports filenames longer than 14 characters.
?S:.
?C:FLEXFILENAMES:
?C: This symbol, if defined, indicates that the system supports filenames
?C: longer than 14
 characters.
?C:.
?H:#$d_flexfnam FLEXFILENAMES  /**/
?H:.
?T:first
?LINT:set d_flexfnam
: see if we can have long filenames
echo " "
?X:
?X: We have to test in both /tmp and . because of NFS (remote server may allow
?X: long filenames while the local filesystem cannot support them). If at least
?X: one of those file systems cannot support long filenames, then we assume the
?X: whole system can't.
?X:
first=123456789abcdef
$rm -f $first
```

```
if (echo hi >$first) 2>/dev/null; then
 if $test -f 123456789abcde; then
  echo 'You cannot have filenames longer than 14 characters.  Sigh.' >&4
  val="$undef"
 else
  echo 'You can have filenames longer than 14 characters.'>&4
  val="$define"
 fi
else
 $cat <<'EOM'
You can't have filenames longer than 14 chars.
You can't even think about them!
EOM
 val="$undef"
fi
set d_flexfnam
eval $setvar
$rm -rf 123456789abcde*
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_flexfnam.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strtol.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strtol.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strtol: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtol:
?S: This variable conditionally defines the HAS_STRTOL symbol, which
?S: indicates to the C program that the strtol() routine is available
?S: to provide better numeric string conversion than atoi() and friends.
?S:.
?C:HAS_STRTOL (STRTOL):
?C: This symbol, if defined, indicates that
```

```
 the strtol routine is available
?C: to provide better numeric string conversion than atoi() and friends.
?C:.
?H:#$d_strtol HAS_STRTOL /**/
?H:.
?LINT:set d_strtol
: see if strtol exists
set strtol d_strtol
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strtol.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_systimeb.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_systimeb.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:37  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit looks wether <sys/timeb.h> should be included
?X: or not when using ftime() (for struct timeb definition).
?X:
?X: Force looking for <sys/time.h> for struct timeb.
?X:INC: i_systime
?MAKE:i_systimeb: test contains Loc Setvar Findhdr
?MAKE: -pick add $@ %<
?S:i_systimeb:
?S: This variable conditionally defines I_SYS_TIMEB,
 which indicates
?S: to the C program that it should include <sys/timeb.h>.
?S:.
?C:I_SYS_TIMEB (I_SYSTIMEB):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/timeb.h>, in order to define struct timeb (some systems
?C: define this in <sys/time.h>). This is useful when using ftime().
?C: You should include <sys/time.h> if I_SYS_TIMEB is not defined,
?C: nor is I_SYS_TIME.
```

```
?C:.
?H:#$i_systimeb I_SYS_TIMEB  /**/
?H:.
?T:xxx
?LINT:set i_systimeb
: see where struct timeb is defined
echo " "
xxx=`./findhdr sys/timeb.h`
if $test "$xxx"; then
 if $contains 'struct timeb' $xxx >/dev/null 2>&1; then
  val="$define"
  echo "You have struct timeb defined in <sys/timeb.h>." >&4
 else
  val="$undef"
  echo "Assuming struct timeb is defined in <sys/time.h>." >&4
 fi
else
 val="$undef"
echo "No <sys/timeb.h> -- Assuming struct timeb is defined in <sys/time.h>." >&4
fi
set i_systimeb
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_systimeb.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: bitpbyte.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:02:54  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:bitpbyte: cat rm Myread +cc +ccflags
?MAKE: -pick add $@ %<
?S:bitpbyte:
```

```
?S: This variable contains the value of the BITS_PER_BYTE symbol, which
?S: indicates to the C program how many bits there are in a byte.
?S:.
?C:BITS_PER_BYTE:
?C: This symbol contains the number
 of bits in a byte, so that the C
?C: preprocessor can make decisions based on it.
?C:.
?H:#define BITS_PER_BYTE $bitpbyte  /**/
?H:.
?F:!try
: check for length of byte
echo " "
case "$bitpbyte" in
")
 echo "Checking to see how many bits there are in a byte..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
?X: Standard C requires a macro CHAR_BIT in <limits.h>
#ifdef __STDC__
#include <limits.h>
#ifndef CHAR_BIT
#define CHAR_BIT 8
#endif
#ifndef BITSPERBYTE
#define BITSPERBYTE CHAR_BIT
#endif
#else
?X: On non standard C, try with <values.h>
#include <values.h>
#ifndef BITSPERBYTE
#define BITSPERBYTE 8
#endif
#endif
int main()
{
 printf("%d\n", BITSPERBYTE);
}
EOCP
 if $cc $ccflags -o try try.c >/dev/null 2>&1 ; then
  dflt=`./try`
 else
  dflt='8'
  echo "(I can't seem to compile the test program.  Guessing...)"
 fi
 ;;
*)
 dflt="$bitpbyte"
```

```
 ;;
esac
rp="What is the length of a byte (in bits)?"
. ./myread
bitpbyte="$ans"
$rm -f try.c try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/bitpbyte.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_mmap.U,v $
?RCS: Revision 3.0.1.1  1993/12/15  08:19:12  ram
?RCS: patch15: created
?RCS:
?MAKE:d_mmap: Inlibc
?MAKE: -pick add $@ %<
?S:d_mmap:
?S: This variable conditionally defines HAS_MMAP if mmap() is
?S: available to map a file into memory.
?S:.
?C:HAS_MMAP:
?C: This symbol, if defined, indicates that the mmap system call is
?C: available to map a file into memory.
?C:.
?H:#$d_mmap HAS_MMAP  /**/
?H:.
?LINT:set d_mmap
: see if mmap exists
set mmap d_mmap
eval $inlibc
```

Found in path(s):
*
 /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_mmap.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Tye McQueen <tye@metronet.com> added safe setuid script checks.
?RCS:
?RCS: $Log: d_dosuid.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:33:03  ram
?RCS: patch61: moved unit to TOP via a ?Y: layout directive
?RCS: patch61: tell them /dev/fd is not about floppy disks
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:12:08  ram
?RCS: patch36: added checks for secure setuid scripts (Tye McQueen)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_dosuid
 d_suidsafe: cat contains ls rm test Myread Setvar \
 Oldconfig Guess package hint
?MAKE: -pick add $@ %<
?S:d_suidsafe:
?S: This variable conditionally defines SETUID_SCRIPTS_ARE_SECURE_NOW
?S: if setuid scripts can be secure.  This test looks in /dev/fd/.
?S:.
?S:d_dosuid:
?S: This variable conditionally defines the symbol DOSUID, which
?S: tells the C program that it should insert setuid emulation code
?S: on hosts which have setuid #! scripts disabled.
?S:.
?C:SETUID_SCRIPTS_ARE_SECURE_NOW:
?C: This symbol, if defined, indicates that the bug that prevents
?C: setuid scripts from being secure is not present in this kernel.
?C:.
?C:DOSUID:
?C: This symbol, if defined, indicates that the C program should
?C: check the script that it is executing for setuid/setgid bits, and
?C: attempt to emulate setuid/setgid on systems that have disabled
?C: setuid #! scripts because the kernel can't do it securely.
?C: It is up to the package designer to make sure that this emulation
```

```
?C: is done securely.
  Among other things, it should do an fstat on
?C: the script it just opened to make sure it really is a setuid/setgid
?C: script, it should make sure the arguments passed correspond exactly
?C: to the argument on the #! line, and it should not trust any
?C: subprocesses to which it must pass the filename rather than the
?C: file descriptor of the script to be executed.
?C:.
?H:#$d_suidsafe SETUID_SCRIPTS_ARE_SECURE_NOW /**/
?H:#$d_dosuid DOSUID  /**/
?H:.
?Y:TOP
?F:!reflect
?LINT: set d_suidsafe
?LINT: set d_dosuid
: see if setuid scripts can be secure
$cat <<EOM

Some kernels have a bug that prevents setuid #! scripts from being
secure.  Some sites have disabled setuid #! scripts because of this.

First let's decide if your kernel supports secure setuid #! scripts.
(If setuid #! scripts would be secure but have been disabled anyway,
don't say that they are secure if asked.)

EOM

val="$undef"
if $test -d /dev/fd; then
 echo "#!$ls" >reflect
 chmod +x,u+s reflect
 ./reflect >flect
 2>&1
 if $contains "/dev/fd" flect >/dev/null; then
  echo "Congratulations, your kernel has secure setuid scripts!" >&4
  val="$define"
 else
  $cat <<EOM
If you are not sure if they are secure, I can check but I'll need a
username and password different from the one you are using right now.
If you don't have such a username or don't want me to test, simply
enter 'none'.

EOM
  rp='Other username to test security of setuid scripts with?'
  dflt='none'
  . ./myread
  case "$ans" in
```

```
  n|none)
   case "$d_suidsafe" in
   ") echo "I'll assume setuid scripts are *not* secure." >&4
    dflt=n;;
   "$undef")
    echo "Well, the $hint value is *not* secure." >&4
    dflt=n;;
   *) echo "Well, the $hint value *is* secure." >&4
    dflt=y;;
   esac
   ;;
  *)
   $rm -f reflect flect
   echo "#!$ls" >reflect
   chmod +x,u+s reflect
   echo >flect
   chmod a+w flect
   echo "'su" will (probably) prompt you for "'$ans's password."
   su $ans -c './reflect >flect'
   if $contains "/dev/fd" flect
 >/dev/null; then
    echo "Okay, it looks like setuid scripts are secure." >&4
    dflt=y
   else
    echo "I don't think setuid scripts are secure." >&4
    dflt=n
   fi
   ;;
  esac
  rp='Does your kernel have *secure* setuid scripts?'
  . ./myread
  case "$ans" in
  [yY]*) val="$define";;
  *) val="$undef";;
  esac
 fi
else
 echo "I don't think setuid scripts are secure (no /dev/fd directory)." >&4
 echo "(That's for file descriptors, not floppy disks.)"
 val="$undef"
fi
set d_suidsafe
eval $setvar

$rm -f reflect flect

: now see if they want to do setuid emulation
echo " "
```

```
val="$undef"
case "$d_suidsafe" in
"$define")
 val="$undef"
 echo "No need to emulate SUID scripts since they are secure here." >& 4
 ;;
*)
 $cat <<EOM
Some systems have disabled setuid scripts, especially systems where
setuid scripts cannot be secure.  On systems where setuid scripts have
been disabled, the setuid/setgid bits on scripts are currently
useless.  It is possible for $package to detect those bits
 and emulate
setuid/setgid in a secure fashion.  This emulation will only work if
setuid scripts have been disabled in your kernel.

EOM
 case "$d_dosuid" in
 "$define") dflt=y ;;
 *) dflt=n ;;
 esac
 rp="Do you want to do setuid/setgid emulation?"
 . ./myread
 case "$ans" in
 [yY]*) val="$define";;
 *) val="$undef";;
 esac
 ;;
esac
set d_dosuid
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_dosuid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: bitpbyte.U,v 3.0.1.1 1994/10/29 16:02:54 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: bitpbyte.U,v $
```

```
?RCS: Revision 3.0.1.1  1994/10/29  16:02:54  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:bitpbyte: cat rm Myread Compile run
?MAKE: -pick add $@ %<
?S:bitpbyte:
?S: This variable contains the value of the BITS_PER_BYTE symbol, which
?S: indicates to the C program how many bits there are in a byte.
?S:.
?C:BITS_PER_BYTE:
?C: This
 symbol contains the number of bits in a byte, so that the C
?C: preprocessor can make decisions based on it.
?C:.
?H:#define BITS_PER_BYTE $bitpbyte  /**/
?H:.
?F:!try
: check for length of byte
echo " "
case "$bitpbyte" in
")
 echo "Checking to see how many bits there are in a byte..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
?X: Standard C requires a macro CHAR_BIT in <limits.h>
#ifdef __STDC__
#include <limits.h>
#ifndef CHAR_BIT
#define CHAR_BIT 8
#endif
#ifndef BITSPERBYTE
#define BITSPERBYTE CHAR_BIT
#endif
#else
?X: On non standard C, try with <values.h>
#include <values.h>
#ifndef BITSPERBYTE
#define BITSPERBYTE 8
#endif
#endif
int main()
{
 printf("%d\n", BITSPERBYTE);
}
EOCP
```

```
 set try
 if eval $compile_ok; then
  dflt=`$run ./try`
 else
  dflt='8'
  echo "(I can't seem to compile the test program.  Guessing...)"
 fi
 ;;
*)
 dflt="$bitpbyte"
 ;;
esac
rp="What is the length of a byte (in bits)?"
. ./myread
bitpbyte="$ans"
$rm -f try.c try
```

Found in path(s):
*
 /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/bitpbyte.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: lns.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  07:05:52  ram
?RCS: patch30: created by ADO
?RCS:
?X:
?X: This unit checks whether symbolic links are really supported.
?X: We can't rely on d_symlink because that may be listed in the
?X: C library but unimplemented.
?X:
?MAKE:lns: ln rm touch test
?MAKE: -pick add $@ %<
?S:lns:
?S: This variable holds the name of the command to make
```

```
?S: symbolic links (if they are supported).
  It can be used
?S: in the Makefile. It is either 'ln -s' or 'ln'
?S:.
: determine whether symbolic links are supported
echo " "
$rm -f blurfl sym
$touch blurfl
if $ln -s blurfl sym > /dev/null 2>&1 && $test -f sym; then
 echo "Symbolic links are supported." >&4
 lns="$ln -s"
else
 echo "Symbolic links are NOT supported." >&4
 lns="$ln"
fi
$rm -f blurfl sym
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/lns.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: packadmin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:packadmin: cf_email Oldconfig Myread cat spackage package
?MAKE: -pick add $@ %<
?Y:TOP
?S:packadmin:
?S: Electronic mail address of the package administrator.
?S:.
: check wehther they will act as local admin for the package
$cat <<EOM

If you or somebody else will be maintaining $package at your site, please
fill in the correct e-mail address here so that they may be contacted
if necessary.  You may enter "none"
 for no administrator.

EOM
```

```
case "$packadmin" in
") dflt="$cf_email";;
*) dflt="$packadmin";;
esac
rp="$spackage administrator e-mail address"
. ./myread
packadmin="$ans"
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/packadmin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_libutil.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_libutil: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_libutil:
?S: This variable conditionally defines the I_LIBUTIL symbol, and indicates
?S: whether a C program should include <libutil.h>.
?S:.
?C:I_LIBUTIL:
?C: This symbol, if defined, indicates that <libutil.h> exists and
?C: should be included.
?C:.
?H:#$i_libutil I_LIBUTIL  /**/
?H:.
?LINT:set i_libutil
: see if this is a libutil.h system
set libutil.h i_libutil
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_libutil.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_limits.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_limits.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:20  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_limits: Inhdr
?MAKE: -pick add $@ %<
?S:i_limits:
?S: This variable conditionally defines the I_LIMITS symbol, and indicates
?S: whether a C program may include <limits.h> to get symbols like WORD_BIT
?S: and friends.
?S:.
?C:I_LIMITS:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <limits.h> to
 get definition of symbols like WORD_BIT or
?C: LONG_MAX, i.e. machine dependant limitations.
?C:.
?H:#$i_limits I_LIMITS  /**/
?H:.
?LINT:set i_limits
: see if this is a limits.h system
set limits.h i_limits
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_limits.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_safebcpy.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  15:40:58  ram
?RCS: patch61: improved overlapping copy check
?RCS: patch61: comfort them if they have memmove
?RCS: patch61: added ?F: metalint hint
```

```
?RCS:
?RCS: Revision 3.0.1.3  1995/07/25  13:58:40  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.2  1995/01/11  15:29:23  ram
?RCS: patch45: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:49:03
  ram
?RCS: patch23: ensure string is not optimized in read-only memory (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_safebcpy: cat d_bcopy +cc +optimize +ccflags +ldflags +libs rm \
 d_memmove i_memory i_stdlib i_string i_unistd Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_safebcpy:
?S: This variable conditionally defines the HAS_SAFE_BCOPY symbol if
?S: the bcopy() routine can do overlapping copies.
?S:.
?C:HAS_SAFE_BCOPY (SAFE_BCOPY):
?C: This symbol, if defined, indicates that the bcopy routine is available
?C: to copy potentially overlapping memory blocks. Otherwise you should
?C: probably use memmove() or memcpy(). If neither is defined, roll your
?C: own version.
?C:.
?H:#$d_safebcpy HAS_SAFE_BCOPY /**/
?H:.
?F:!safebcpy
?LINT: set d_safebcpy
: can bcopy handle overlapping blocks?
?X: assume the worst
val="$undef"
case "$d_bcopy" in
"$define")
 echo " "
 echo "Checking to see if your bcopy() can do overlapping
 copies..." >&4
 $cat >foo.c <<EOCP
#$i_memory I_MEMORY
#$i_stdlib I_STDLIB
#$i_string I_STRING
#$i_unistd I_UNISTD
EOCP
 $cat >>foo.c <<'EOCP'
#include <stdio.h>
#ifdef I_MEMORY
```

```
#  include <memory.h>
#endif
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#ifdef I_STRING
#  include <string.h>
#else
#  include <strings.h>
#endif
#ifdef I_UNISTD
#  include <unistd.h>  /* Needed for NetBSD */
#endif
int main()
{
char buf[128], abc[128];
char *b;
int len;
int off;
int align;

?X: Copy "abcde..." string to char abc[] so that gcc doesn't
?X: try to store the string in read-only memory.
bcopy("abcdefghijklmnopqrstuvwxyz0123456789", abc, 36);

for (align = 7; align >= 0; align--) {
 for (len = 36; len; len--) {
  b = buf+align;
  bcopy(abc, b, len);
  for (off = 1; off <= len; off++) {
   bcopy(b, b+off, len);
   bcopy(b+off, b, len);
   if (bcmp(b, abc, len))
    exit(1);
  }
 }
}
exit(0);
}
EOCP
 if $cc $optimize $ccflags $ldflags \
      -o safebcpy foo.c $libs >/dev/null 2>&1; then
  if ./safebcpy
 2>/dev/null; then
   echo "Yes, it can."
   val="$define"
  else
   echo "It can't, sorry."
```

```
  case "$d_memmove" in
  "$define") echo "But that's Ok since you have memmove()." ;;
  esac
 fi
else
 echo "(I can't compile the test program, so we'll assume not...)"
 case "$d_memmove" in
 "$define") echo "But that's Ok since you have memmove()." ;;
 esac
fi
;;
esac
$rm -f foo.* safebcpy core
set d_safebcpy
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_safebcpy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: alignbytes.U,v 3.0.1.2 1994/10/29 16:02:28 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: alignbytes.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:02:28  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:25:20  ram
?RCS: patch23: avoid ALIGNBYTES, since it conflicts on NetBSD
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:23  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:alignbytes: Myread Compile cat rm_try multiarch run test nvtype
?MAKE: -pick add $@ %<
?S:alignbytes:
?S: This
 variable holds the number of bytes required to align a
?S: double-- or a long double when applicable. Usual values are
?S: 2, 4 and 8.  The default is eight, for safety.
```

```
?S:.
?X: This used to be called ALIGNBYTES, but that conflicts with
?X: <machines/param.h> in NetBSD.
?C:MEM_ALIGNBYTES (ALIGNBYTES):
?C: This symbol contains the number of bytes required to align a
?C: double, or a long double when applicable. Usual values are 2,
?C: 4 and 8. The default is eight, for safety.  For cross-compiling
?C: or multiarch support, Configure will set a minimum of 8.
?C:.
?H:?%<:#define MEM_ALIGNBYTES $alignbytes
?H:.
?F:!try
: check for alignment requirements
echo " "
case "$alignbytes" in
   ") echo "Checking alignment constraints..." >&4
 $cat >try.c <<EOCP
#include <stdio.h>
struct foobar {
   char foo;
   $nvtype bar;
} try_algn;
int main()
{
   printf("%d\n", (int)((char *)&try_algn.bar - (char *)&try_algn.foo));
   return(0);
}
EOCP
 set try
 if eval $compile_ok; then
     dflt=`$run
 ./try`
 else
     dflt='8'
     echo "(I can't seem to compile the test program...)"
 fi
 case "$multiarch" in
     *$define*)
  : The usual safe value is 8, but Darwin with -Duselongdouble
  : needs 16.  Hence, we will take 8 as a minimum, but allow
  : Configure to pick a larger value if needed.
  if $test "$dflt" -lt 8; then
      dflt='8'
      echo "Setting alignment to 8 for multiarch support.">&4
  fi
  ;;
 esac
 ;;
```

```
   *) dflt="$alignbytes"
 ;;
esac
rp="Doubles must be aligned on a how-many-byte boundary?"
. ./myread
alignbytes="$ans"
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/alignbytes.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: models.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: models.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:13:17  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:02:39  ram
?RCS: patch6: added default for large
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:models split small medium large huge: test cat Myread sysman Oldconfig \
 Loc contains rm
?MAKE: -pick add $@ %<
?S:models:
?S: This variable contains
 the list of memory models supported by this
?S: system.  Possible component values are none, split, unsplit, small,
?S: medium, large, and huge.  The component values are space separated.
?S:.
?S:split:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program that will run in separate I and D space, for those
?S: machines that support separation of instruction and data space.  It is
?S: up to the Makefile to use this.
?S:.
```

```
?S:small:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program running with a small memory model.  It is up to
?S: the Makefile to use this.
?S:.
?S:medium:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program running with a medium memory model.  If the
?S: medium model is not supported, contains the flag to produce large
?S: model programs.  It is up to the Makefile to use this.
?S:.
?S:large:
?S: This variable contains a flag
 which will tell the C compiler and loader
?S: to produce a program running with a large memory model.  It is up to
?S: the Makefile to use this.
?S:.
?S:huge:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program running with a huge memory model.  If the
?S: huge model is not supported, contains the flag to produce large
?S: model programs.  It is up to the Makefile to use this.
?S:.
?T:unsplit tans modelcc
?F:!pdp11
?D:large=''
?LINT:extern cc
: see what memory models we can support
case "$models" in
'')
?X: We may not use Cppsym or we get a circular dependency through cc.
?X: But this should work regardless of which cc we eventually use.
 $cat >pdp11.c <<'EOP'
int main() {
#ifdef pdp11
 exit(0);
#else
 exit(1);
#endif
}
EOP
?X: Run cc in a subshell in case they don't have a 'cc' command.
?X: Presumably they do have gcc or something.
 case "$cc" in
 '') modelcc="$cc" ;;
 *) modelcc="cc" ;;
 esac
 ( $modelcc -o pdp11 pdp11.c ) >/dev/null 2>&1
```

```
 if
 $test -f pdp11 && ./pdp11 2>/dev/null; then
  dflt='unsplit split'
 else
  tans=`./loc . X /lib/small /lib/large /usr/lib/small /usr/lib/large /lib/medium /usr/lib/medium /lib/huge`
  case "$tans" in
  X) dflt='none';;
  *) if $test -d /lib/small || $test -d /usr/lib/small; then
    dflt='small'
   else
    dflt=''
   fi
   if $test -d /lib/medium || $test -d /usr/lib/medium; then
    dflt="$dflt medium"
   fi
   if $test -d /lib/large || $test -d /usr/lib/large; then
    dflt="$dflt large"
   fi
   if $test -d /lib/huge || $test -d /usr/lib/huge; then
    dflt="$dflt huge"
   fi
  esac
 fi;;
*) dflt="$models";;
esac
$cat <<EOM

Some systems have different model sizes.  On most systems they are called
small, medium, large, and huge.  On the PDP11 they are called unsplit and
split.  If your system doesn't support different memory models, say "none".
If you wish to force everything to one memory model, say "none" here and
put the appropriate flags later when it asks you for other
 cc and ld flags.
Venix systems may wish to put "none" and let the compiler figure things out.
(In the following question multiple model names should be space separated.)

The default for most systems is "none".

EOM
rp="Which memory models are supported?"
. ./myread
models="$ans"

case "$models" in
none)
 small=''
 medium=''
 large=''
```

```
 huge=''
 unsplit=''
 split=''
 ;;
*split)
 case "$split" in
 '') if $contains '\-i' $sysman/ld.1 >/dev/null 2>&1 || \
    $contains '\-i' $sysman/cc.1 >/dev/null 2>&1; then
   dflt='-i'
  else
   dflt='none'
  fi;;
 *) dflt="$split";;
 esac
 rp="What flag indicates separate I and D space?"
 . ./myread
 tans="$ans"
 case "$tans" in
 none) tans='';;
 esac
 split="$tans"
 unsplit='';;
*large*|*small*|*medium*|*huge*)
 case "$models" in
 *large*)
  case "$large" in
  '') dflt='-Ml';;
  *) dflt="$large";;
  esac
 rp="What flag indicates large model?"
 . ./myread
 tans="$ans"
 case "$tans" in
 none) tans='';
 esac
 large="$tans";;
 *) large='';;
 esac
 case "$models"
 in
 *huge*) case "$huge" in
  '') dflt='-Mh';;
  *) dflt="$huge";;
  esac
  rp="What flag indicates huge model?"
  . ./myread
  tans="$ans"
  case "$tans" in
```

```
 none) tans='';
 esac
 huge="$tans";;
*) huge="$large";;
esac
case "$models" in
*medium*) case "$medium" in
 '') dflt='-Mm';;
 *) dflt="$medium";;
 esac
 rp="What flag indicates medium model?"
 . ./myread
 tans="$ans"
 case "$tans" in
 none) tans='';
 esac
 medium="$tans";;
*) medium="$large";;
esac
case "$models" in
*small*) case "$small" in
 '') dflt='none';;
 *) dflt="$small";;
 esac
 rp="What flag indicates small model?"
 . ./myread
 tans="$ans"
 case "$tans" in
 none) tans='';
 esac
 small="$tans";;
*) small='';;
esac
;;
*)
 echo "Unrecognized memory models--you may have to edit Makefile.SH" >&4
 ;;
esac
$rm -f pdp11.* pdp11
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/models.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Extras.U,v$
?RCS:
?RCS: Copyright (c) 2001, Jarkko Hietaniemi
```

```
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:extras: Myread Oldconfig Setvar rm
?MAKE: -pick add $@ %<
?Y:TOP
?S:extras:
?S: This variable holds a list of extra modules to install.
?S:.
: See if we want extra modules installed
echo " "
case "$extras" in
") dflt='n';;
*) dflt='y';;
esac
cat <<EOM
Perl can be built with extra modules or bundles of modules which
will be fetched from the CPAN and installed alongside Perl.

Notice that you will need access to the CPAN; either via the Internet,
or a local copy, for example a CD-ROM or a local CPAN mirror.  (You will
be asked later to configure the CPAN.pm module which will in turn do
the installation of the rest of the extra modules or bundles.)

Notice also that if the modules require
 any external software such as
libraries and headers (the libz library and the zlib.h header for the
Compress::Zlib module, for example) you MUST have any such software
already installed, this configuration process will NOT install such
things for you.

If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp='Install any extra modules (y or n)?'
. ./myread
case "$ans" in
y|Y)
 cat <<EOM

Please list any extra modules or bundles to be installed from CPAN,
with spaces between the names.  The names can be in any format the
'install' command of CPAN.pm will understand.  (Answer 'none',
without the quotes, to install no extra modules or bundles.)
EOM
 rp='Extras?'
 dflt="$extras"
 . ./myread
```

```
 extras="$ans"
esac
case "$extras" in
"|'none')
 val=''
 $rm -f ../extras.lst
 ;;
*) echo "(Saving the list of extras for later...)"
 echo "$extras" > ../extras.lst
 val='"$extras"'
 ;;
esac
set extras
eval $setvar
echo " "
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/Extras.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_tcgtpgrp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_tcgtpgrp.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:12:08  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_tcgetpgrp: Inlibc
?MAKE: -pick add $@ %<
?S:d_tcgetpgrp:
?S: This variable conditionally defines the HAS_TCGETPGRP symbol, which
?S: indicates to the C program that the tcgetpgrp() routine is available.
?S: to get foreground process group ID.
?S:.
?C:HAS_TCGETPGRP
 :
?C: This symbol, if defined, indicates that the tcgetpgrp routine is
?C: available to get foreground process group ID.
```

```
?C:.
?H:#$d_tcgetpgrp HAS_TCGETPGRP  /**/
?H:.
?LINT:set d_tcgetpgrp
: see if tcgetpgrp exists
set tcgetpgrp d_tcgetpgrp
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_tcgtpgrp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getlogin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_getlogin.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:41  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_getlogin: Inlibc
?MAKE: -pick add $@ %<
?S:d_getlogin:
?S: This variable conditionally defines the HAS_GETLOGIN symbol, which
?S: indicates to the C program that the getlogin() routine is available
?S: to get the login name.
?S:.
?C:HAS_GETLOGIN :
?C: This symbol,
 if defined, indicates that the getlogin routine is
?C: available to get the login name.
?C:.
?H:#$d_getlogin HAS_GETLOGIN  /**/
?H:.
?LINT:set d_getlogin
: see if getlogin exists
set getlogin d_getlogin
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getlogin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: rcs_branch.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: rcs_branch.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:40  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:rcs_branch: Myread contains Loc
?MAKE: -pick add $@ %<
?S:rcs_branch:
?S: This variable will hold "true" if rcs can take the -b<revision>
?S: option, which can make Life Easier on those folks who like to run
?S: rcsdiff manually.
?S:.
?T:xxx
: Tra la la la la
echo " "
echo "Checking to see if RCS understands the -b switch..." >&4
xxx=`./loc
 rcs " $pth`
case "$xxx" in
")
 rcs_branch=false
 echo "Oh.  You don't seem to have RCS here."
 ;;
*)
 rcs > rcsbranch.out 2>&1
 if $contains 'b\[rev\]' rcsbranch.out  >/dev/null 2>&1 ; then
  rcs_branch=true
  echo "Nice!  Your RCS is spiffy!"
 else
  rcs_branch=false
 echo "Well, at least you have RCS.  You know, a newer version is available."
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/rcs_branch.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_systypes.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_systypes.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:41  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Look wether <sys/types.h> needs to be included.
?X:
?MAKE:i_systypes: Inhdr
?MAKE: -pick add $@ %<
?S:i_systypes:
?S: This variable conditionally defines the I_SYS_TYPES symbol,
?S: and indicates whether a C program should include <sys/types.h>.
?S:.
?C:I_SYS_TYPES (I_SYSTYPES):
?C: This symbol, if defined, indicates to the C program
 that it should
?C: include <sys/types.h>.
?C:.
?H:#$i_systypes I_SYS_TYPES  /**/
?H:.
?LINT:set i_systypes
: see if sys/types.h has to be included
set sys/types.h i_systypes
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_systypes.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: socksizetype.U,v $
?RCS:
```

```
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:socksizetype: \
 Protochk Oldconfig Myread cat d_socket d_socklen_t sizetype \
 usesocks i_socks i_systypes extern_C
?MAKE: -pick add $@ %<
?S:socksizetype:
?S: This variable holds the type used for the size argument
?S: for various socket calls like accept.  Usual values include
?S: socklen_t, size_t, and int.
?S:.
?C:Sock_size_t:
?C: This symbol holds the type used for the size argument of
?C: various socket calls (just the base type, not the pointer-to).
?C:.
?H:#define Sock_size_t  $socksizetype /**/
?H:.
?T:xxx yyy try
@if Sock_size_t
: check for type of the size argument to socket calls
case "$d_socket" in
"$define")
 $cat <<EOM

Checking to see what type is the last argument
 of accept().
EOM
 yyy=''
 case "$d_socklen_t" in
 "$define") yyy="$yyy socklen_t"
 esac
 yyy="$yyy $sizetype int long unsigned"
 for xxx in $yyy; do
  case "$socksizetype" in
  '') try="$extern_C int accept(int, struct sockaddr *, $xxx *);"
   case "$usesocks" in
   "$define")
    if ./protochk "$try" $i_systypes sys/types.h $d_socket sys/socket.h literal '#define INCLUDE_PROTOTYPES'
$i_socks socks.h.; then
     echo "Your system accepts '$xxx *' for the last argument of accept()."
     socksizetype="$xxx"
    fi
    ;;
   *) if ./protochk "$try"  $i_systypes sys/types.h $d_socket sys/socket.h; then
     echo "Your system accepts '$xxx *' for the last argument of accept()."
```

```
    socksizetype="$xxx"
   fi
   ;;
  esac
  ;;
 esac
done
: In case none of those worked, prompt the user.
case "$socksizetype" in
") rp='What is the type for socket address structure sizes?'
 dflt='int'
 . ./myread
 socksizetype=$ans
 ;;
esac
;;
*) : no sockets, so pick relatively harmless default
socksizetype='int'
;;
esac
@end
```

Found
in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/socksizetype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:uselargefiles \
 ccflags_uselargefiles \
 ldflags_uselargefiles \
 libswanted_uselargefiles: \
 Myread Oldconfig Setvar test lseeksize fpossize \
 fpostype Compile echo n c cat lseektype rm_try run \
 use64bitint use64bitall i_stdlib
?MAKE: -pick add $@ %<
?Y:TOP
?S:uselargefiles:
?S: This variable conditionally defines the USE_LARGE_FILES symbol,
?S: and indicates that large file interfaces should be used when
?S: available.
```

```
?S:.
?S:ccflags_uselargefiles:
?S: This variable contains the compiler flags needed by large file builds
?S: and added to ccflags by hints files.
?S:.
?S:ldflags_uselargefiles:
?S: This variable contains the loader flags needed by large file builds
?S: and added to ldflags by
 hints files.
?S:.
?S:libswanted_uselargefiles:
?S: This variable contains the libraries needed by large file builds
?S: and added to ldflags by hints files.  It is a space separated list
?S: of the library names without the "lib" prefix or any suffix, just
?S: like libswanted..
?S:.
?C:USE_LARGE_FILES:
?C: This symbol, if defined, indicates that large file support
?C: should be used when available.
?C:.
?H:?%<:#ifndef USE_LARGE_FILES
?H:?%<:#$uselargefiles USE_LARGE_FILES  /**/
?H:?%<:#endif
?H:.
?INIT:ccflags_uselargefiles=''
?INIT:ldflags_uselargefiles=''
?INIT:libswanted_uselargefiles=''
?T:yyy zzz
?F:!uselargefiles.cbu !try
?LINT:change lseeksize
?LINT:change fpossize
?LINT:extern uselfs
?LINT:use use64bitint
?LINT:use use64bitall
: Check for large file support
# Backward compatibility (uselfs is deprecated).
case "$uselfs" in
"$define"|true|[yY]*)
 cat <<EOM >&4

*** Configure -Duselfs is deprecated, using -Duselargefiles instead.
EOM
 uselargefiles="$define"
 ;;
esac

case "$lseeksize:$fpossize"
```

```
 in
8:8) cat <<EOM

You can have files larger than 2 gigabytes.
EOM
  val="$define" ;;
*)    case "$uselargefiles" in
  "$undef"|false|[nN]*) dflt='n' ;;
  *) dflt='y' ;;
  esac
  cat <<EOM

Perl can be built to understand large files (files larger than 2 gigabytes)
on some systems.  To do so, Configure can be run with -Duselargefiles.

If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
  rp='Try to understand large files, if available?'
  . ./myread
  case "$ans" in
  y|Y) val="$define" ;;
  *) val="$undef"  ;;
  esac
  ;;
esac
set uselargefiles
eval $setvar
: Look for a hint-file generated 'call-back-unit'.  If the
: user has specified that a large files perl is to be built,
: we may need to set or change some other defaults.
if $test -f uselargefiles.cbu; then
 echo "Your platform has some specific hints regarding large file builds, using them..."
 . ./uselargefiles.cbu
fi
case "$uselargefiles" in
"$define")
 if $test -f uselargefiles.cbu;
 then
  echo " "
  echo "Rechecking to see how big your file offsets are..." >&4
  $cat >try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
int main()
{
   printf("%d\n", (int)sizeof($lseektype));
   return(0);
}
```

```
EOCP
  set try
  if eval $compile_ok; then
   lseeksize=`$run ./try`
   $echo "Your file offsets are now $lseeksize bytes long."
  else
   dflt="$lseeksize"
   echo " "
   echo "(I can't seem to compile the test program.  Guessing...)"
   rp="What is the size of your file offsets (in bytes)?"
   . ./myread
   lseeksize="$ans"
  fi
  case "$fpostype" in
  *_t) zzz="$fpostype" ;;
  *)   zzz="fpos_t" ;;
  esac
  $echo $n "Rechecking the size of $zzz...$c" >&4
  $cat > try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() {
   printf("%d\n", (int)sizeof($fpostype));
   return(0);
}
EOCP
  set try
  if eval $compile_ok; then
   yyy=`$run ./try`
   dflt="$lseeksize"
   case "$yyy" in
   ") echo
 " "
    echo "(I can't execute the test program--guessing $fpossize.)" >&4
    ;;
   *) fpossize=$yyy
    echo " $fpossize bytes." >&4
    ;;
   esac
  else
   dflt="$fpossize"
   echo " "
   echo "(I can't compile the test program.  Guessing...)" >&4
   rp="What is the size of your file positions (in bytes)?"
```

```
  . ./myread
  fpossize="$ans"
 fi
 $rm_try
fi
;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/uselfs.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: package.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:27:21  ram
?RCS: patch36: beware of non-ascii character sets when translating case
?RCS:
?RCS: Revision 3.0.1.2  1993/11/10  17:37:02  ram
?RCS: patch14: skip definition of spackage if not otherwise used
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:11:10  ram
?RCS: patch10: added spackage, suitable for starting sentences
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:28  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:package spackage:
 Nothing
?MAKE: -pick wipe $@ %<
?S:package:
?S: This variable contains the name of the package being constructed.
?S: It is primarily intended for the use of later Configure units.
?S:.
?S:spackage:
?S: This variable contains the name of the package being constructed,
?S: with the first letter uppercased, i.e. suitable for starting
?S: sentences.
?S:.
```

```
?C:PACKAGE:
?C: This variable contains the name of the package being built.
?C:.
?H:#define PACKAGE "$package"
?H:.
?T:first last
: set package name
package='<PACKAGENAME>'
@if spackage
first=`echo $package | sed -e 's/^\(.\).*/\1/'`
last=`echo $package | sed -e 's/^.\(.*\)/\1/'`
?X:
?X: So early in the Configure script, we don't have ./tr set up and can't
?X: include Tr in our dependency or that would create a cycle. Therefore,
?X: we have to somehow duplicate the work done in Tr. That's life.
?X:
case "`echo AbyZ | tr '[:lower:]' '[:upper:]' 2>/dev/null`" in
ABYZ) spackage=`echo $first | tr '[:lower:]' '[:upper:]'`$last;;
*) spackage=`echo
 $first | tr '[a-z]' '[A-Z]'`$last;;
esac
@end
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/package.U
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```
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?RCS:
?RCS: $Log: abortsig.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:02:19  ram
?RCS: patch36: call ./usg explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:20  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:abortsig: Myread Oldconfig Guess cat +cc ccflags rm
?MAKE: -pick add $@ %<
?S:abortsig:
```

```
?S: This variable holds the name of the signal used by the abort() call.
?S:.
?C:ABORTSIG:
?C: This symbol holds the signal number (symbol) used by the abort() call. To
?C: actually
 define the signal symbol, <signal.h> should be included.
?C:.
?H:#define ABORTSIG $abortsig  /**/
?H:.
?T:signal
: which signal is sent by abort ?
echo " "
case "$abortsig" in
")
 echo "Checking to see which signal is sent to the process by abort()..." >&4
 echo "abort" > abort.sh
 chmod +x abort.sh
?X: SIGABRT should replace SIGIOT on USG machines in a near future (1991).
 for signal in SIGIOT SIGILL SIGABRT; do
  case "$abortsig" in
  ") $cat >abort.c <<EOP
/* FIXME: Missing #include <stdlib.h>*/
#include <signal.h>
caught() { exit(0); } /* FIXME: Use _exit() or _Exit() in signal handler  */
int main()
{
#ifdef $signal
 signal($signal, caught);
#endif
 if (-1 == abort())
  exit(1);
 exit(1);
}
EOP
?X: We have to use the abort.sh script otherwise sh behaves strangely on AIX.
   if $cc $ccflags -o abort abort.c >/dev/null 2>&1; then
    (./abort.sh) >/dev/null 2>&1
    case $? in
    0) abortsig="$signal";;
    esac
   fi
   ;;
  esac
 done
 ;;
esac
case "$abortsig" in
") echo
```

```
 "(I wasn't able to compute the signal name--guessing)"
 if ./usg; then
  dflt="SIGIOT"
 else
  dflt="SIGILL"
 fi;;
*)  dflt="$abortsig"
 ;;
esac
rp="Which signal does abort() send to the process (signal name)?"
. ./myread
abortsig="$ans"
$rm -f core abort.sh abort abort.c
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/abortsig.U
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```
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_getespwnam: Inlibc
?MAKE: -pick add $@ %<
?S:d_getespwnam:
?S: This variable conditionally defines HAS_GETESPWNAM if getespwnam() is
?S: available to retrieve enhanced (shadow) password entries by name.
?S:.
?C:HAS_GETESPWNAM:
?C: This symbol, if defined, indicates that the getespwnam system call is
?C: available to retrieve enhanced (shadow) password entries by name.
?C:.
?H:#$d_getespwnam HAS_GETESPWNAM  /**/
?H:.
?LINT:set d_getespwnam
: see if getespwnam exists
set getespwnam d_getespwnam
eval $inlibc
```

Found in

path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_getespwnam.U
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```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_hasmntopt: Inlibc
?MAKE: -pick add $@ %<
?S:d_hasmntopt:
?S: This variable conditionally defines the HAS_HASMNTOPT symbol, which
?S: indicates to the C program that the hasmntopt() routine is available
?S: to query the mount options of file systems.
?S:.
?C:HAS_HASMNTOPT:
?C: This symbol, if defined, indicates that the hasmntopt routine is
?C: available to query the mount options of file systems.
?C:.
?H:#$d_hasmntopt HAS_HASMNTOPT  /**/
?H:.
?LINT:set d_hasmntopt
: see if hasmntopt exists
set hasmntopt d_hasmntopt
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_hasmntopt.U
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```
?RCS: $Id: i_niin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_niin.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:24  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?X:
?X: This unit looks wether <netinet/in.h> is available or not
?X:
?MAKE:i_niin i_sysin: Inhdr
?MAKE: -pick add $@ %<
?S:i_niin:
?S: This variable conditionally defines I_NETINET_IN, which indicates
?S: to the C program that it should include <netinet/in.h>. Otherwise,
?S: you may try <sys/in.h>.
?S:.
?S:i_sysin:
?S: This variable conditionally
 defines I_SYS_IN, which indicates
?S: to the C program that it should include <sys/in.h> instead of
?S: <netinet/in.h>.
?S:.
?C:I_NETINET_IN:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <netinet/in.h>. Otherwise, you may try <sys/in.h>.
?C:.
?C:I_SYS_IN (I_SYSIN):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/in.h> instead of <netinet/in.h>.
?C:.
?H:#$i_niin I_NETINET_IN /**/
?H:#$i_sysin I_SYS_IN  /**/
?H:.
?LINT:set i_niin i_sysin
: see if this is a netinet/in.h or sys/in.h system
set netinet/in.h i_niin sys/in.h i_sysin
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_niin.U
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```
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?RCS:
```

```
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: selecttype.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:20:09  ram
?RCS: patch61: always include <sys/select.h> when available for test
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  14:14:06  ram
?RCS: patch56: removed harmful spaces in assignment
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:06:31  ram
?RCS: patch30: created by ADO
?RCS:
?MAKE:selecttype: cat +cc +ccflags rm Oldconfig Myread \
 d_fd_set d_select d_socket i_systime
 i_sysselct
?MAKE: -pick add $@ %<
?S:selecttype:
?S: This variable holds the type used for the 2nd, 3rd, and 4th
?S: arguments to select.  Usually, this is 'fd_set *', if HAS_FD_SET
?S: is defined, and 'int *' otherwise.  This is only useful if you
?S: have select(), naturally.
?S:.
?C:Select_fd_set_t:
?C: This symbol holds the type used for the 2nd, 3rd, and 4th
?C: arguments to select.  Usually, this is 'fd_set *', if HAS_FD_SET
?C: is defined, and 'int *' otherwise.  This is only useful if you
?C: have select(), of course.
?C:.
?H:#define Select_fd_set_t  $selecttype /**/
?H:.
?T:xxx yyy
: check for type of arguments to select.  This will only really
: work if the system supports prototypes and provides one for
: select.
case "$d_select" in
$define)
 : Make initial guess
 case "$selecttype" in
 "|' ')
  case "$d_fd_set" in
  $define) xxx='fd_set *' ;;
  *) xxx='int *' ;;
  esac
  ;;
 *)  xxx="$selecttype"
  ;;
 esac
 : backup guess
```

```
 case "$xxx" in
 'fd_set *') yyy='int *'
 ;;
 'int *') yyy='fd_set *' ;;
 esac

 $cat <<EOM

Checking to see what type of arguments are expected by select().
EOM
 $cat >try.c <<EOCP
#$i_systime I_SYS_TIME
#$i_sysselct I_SYS_SELECT
#$d_socket HAS_SOCKET
#include <sys/types.h>
#ifdef HAS_SOCKET
#include <sys/socket.h> /* Might include <sys/bsdtypes.h> */
#endif
#ifdef I_SYS_TIME
#include <sys/time.h>
#endif
#ifdef I_SYS_SELECT
#include <sys/select.h>
#endif
int main()
{
 int width;
 Select_fd_set_t readfds;
 Select_fd_set_t writefds;
 Select_fd_set_t exceptfds;
 struct timeval timeout;
 select(width, readfds, writefds, exceptfds, &timeout);
 exit(0);
}
EOCP
 if $cc $ccflags -c -DSelect_fd_set_t="$xxx" try.c >/dev/null 2>&1 ; then
  selecttype="$xxx"
  echo "Your system uses $xxx for the arguments to select." >&4
 elif $cc $ccflags -c -DSelect_fd_set_t="$yyy" try.c >/dev/null 2>&1 ; then
  selecttype="$yyy"
  echo "Your system uses $yyy for the arguments to select." >&4
 else
  rp='What is the type for the 2nd, 3rd, and 4th arguments
 to select?'
  dflt="$xxx"
  . ./myread
  selecttype="$ans"
 fi
```

```
 $rm -f try.[co]
 ;;
*) selecttype='int *'
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/selecttype.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: usrinc.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:27:12  ram
?RCS: patch61: don't ask for the include path unless they are on a MIPS
?RCS:
?RCS: Revision 3.0.1.2  1995/05/12  12:24:36  ram
?RCS: patch54: ensure that ./mips always exists (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:18:31  ram
?RCS: patch23: ensure usrinc value is preserved across sessions (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:usrinc incpath mips_type:
 test cat echo n c Getfile Guess \
 Oldconfig eunicefix contains rm
?MAKE: -pick add $@ %<
?S:usrinc:
?S: This variable holds the path of the include files, which is
?S: usually /usr/include. It is mainly used by other Configure units.
?S:.
?S:incpath:
?S: This variable must preceed the normal include path to get hte
?S: right one, as in "$incpath/usr/include" or "$incpath/usr/lib".
?S: Value can be "" or "/bsd43" on mips.
?S:.
?S:mips_type:
```

```
?S: This variable holds the environment type for the mips system.
?S: Possible values are "BSD 4.3" and "System V".
?S:.
?D:usrinc='/usr/include'
?LINT:create mips
?T:xxx_prompt
?F:./mips
: What should the include directory be ?
echo " "
$echo $n "Hmm...  $c"
dflt='/usr/include'
incpath=''
?X: mips_type is used later, to add -DSYSTYPE_BSD43 to cppflags if needed.
mips_type=''
?X:
?X: Cannot put the following in Guess, or we get a circular dependency.
?X:
if $test -f /bin/mips && /bin/mips; then
 echo "Looks like a MIPS system..."
 $cat >usr.c
 <<'EOCP'
#ifdef SYSTYPE_BSD43
/bsd43
#endif
EOCP
 if cc -E usr.c > usr.out && $contains / usr.out >/dev/null 2>&1; then
  dflt='/bsd43/usr/include'
  incpath='/bsd43'
  mips_type='BSD 4.3'
 else
  mips_type='System V'
 fi
 $rm -f usr.c usr.out
 echo "and you're compiling with the $mips_type compiler and libraries."
 xxx_prompt=y
 echo "exit 0" >mips
else
 echo "Doesn't look like a MIPS system."
 xxx_prompt=n
 echo "exit 1" >mips
fi
chmod +x mips
$eunicefix mips
case "$usrinc" in
'') ;;
*) dflt="$usrinc";;
esac
case "$xxx_prompt" in
```

```
y) fn=d/
 echo " "
 rp='Where are the include files you want to use?'
 . ./getfile
 usrinc="$ans"
 ;;
*) usrinc="$dflt"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/usrinc.U
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```
?RCS: $Id: d_crypt.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_crypt.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:31:47  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_crypt cryptlib: Loc test xlibpth libpth Csym Setvar _a Inlibc
?MAKE: -pick add $@ %<
?S:d_crypt:
?S: This variable conditionally defines the CRYPT symbol, which
?S: indicates to the C program that the crypt() routine is available
?S: to
 encrypt passwords and the like.
?S:.
?S:cryptlib:
?S: This variable holds -lcrypt or the path to a libcrypt.a archive if
?S: the crypt() function is not defined in the standard C library. It is
?S: up to the Makefile to use this.
?S:.
?C:HAS_CRYPT (CRYPT):
?C: This symbol, if defined, indicates that the crypt routine is available
?C: to encrypt passwords and the like.
```

```
?C:.
?H:#$d_crypt HAS_CRYPT  /**/
?H:.
?LINT:set d_crypt
?T:val
: see if crypt exists
echo " "
set crypt d_crypt
eval $inlibc
case "$d_crypt" in
$define) cryptlib=" ;;
*) if set crypt val -f d_crypt; eval $csym; $val; then
  echo 'crypt() found.' >&4
  val="$define"
  cryptlib="
 else
  cryptlib=`./loc Slibcrypt$_a "" $xlibpth`
  if $test -z "$cryptlib"; then
   cryptlib=`./loc Mlibcrypt$_a "" $xlibpth`
  else
   cryptlib=-lcrypt
  fi
  if $test -z "$cryptlib"; then
   cryptlib=`./loc Llibcrypt$_a "" $xlibpth`
  else
   cryptlib=-lcrypt
  fi
  if $test -z "$cryptlib"; then
   cryptlib=`./loc libcrypt$_a ""
 $libpth`
  else
   cryptlib=-lcrypt
  fi
  if $test -z "$cryptlib"; then
   echo 'crypt() NOT found.' >&4
   val="$undef"
  else
   val="$define"
  fi
 fi
 set d_crypt
 eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_crypt.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_popen.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_popen.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_popen: Inlibc
?MAKE: -pick add $@ %<
?S:d_popen:
?S: This variable conditionally defines HAS_POPEN if popen() is
?S: available to open a pipe from a process.
?S:.
?C:HAS_POPEN (POPEN):
?C: This symbol, if defined, indicates that the popen routine is
?C: available to open a pipe from a process.
?C:.
?H:#$d_popen HAS_POPEN  /**/
?H:.
?LINT:set
 d_popen
: see if popen exists
set popen d_popen
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_popen.U
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```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_isascii.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:13:39  ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:09:32  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_isascii: cc cat ccflags ldflags rm libs Setvar
?MAKE: -pick add $@ %<
?S:d_isascii:
?S: This variable conditionally defines the HAS_ISASCII constant,
?S: which indicates to the C program that isascii()
 is available.
?S:.
?C:HAS_ISASCII:
?C: This manifest constant lets the C program know that isascii
?C: is available.
?C:.
?H:#$d_isascii HAS_ISASCII  /**/
?H:.
?LINT:set d_isascii
?X: Can't use Inlibc because isascii() might be a macro.
: Look for isascii
echo " "
$cat >isascii.c <<'EOCP'
#include <stdio.h>
#include <ctype.h>
int main() {
 int c = 'A';
 if (isascii(c))
  exit(0);
 else
  exit(1);
}
EOCP
if $cc $ccflags $ldflags -o isascii isascii.c $libs >/dev/null 2>&1 ; then
 echo "isascii() found." >&4
 val="$define"
else
 echo "isascii() NOT found." >&4
 val="$undef"
fi
set d_isascii
eval $setvar
$rm -f isascii*
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_isascii.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_uwait.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_uwait.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:10:49  ram
?RCS: patch16: added knowledge about wait3()
?RCS: patch16: revised 'union wait' look-up algorithm
?RCS: patch16: fixed make dependency line accordingly
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_uwait d_uwait3: cat contains cppstdin cppminus +cppflags rm \
 Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_uwait:
?S: This symbol
 conditionally defines UNION_WAIT which indicates to the C
?S: program that argument for the wait() system call should be declared as
?S: 'union wait status' instead of 'int status'.
?S:.
?S:d_uwait3:
?S: This symbol conditionally defines UNION_WAIT3 which indicates to the C
?S: program that the first argument for the wait3() system call should be
?S: declared as 'union wait status' instead of 'int status'.
?S:.
?C:UNION_WAIT:
?C: This symbol if defined indicates to the C program that the argument
?C: for the wait() system call should be declared as 'union wait status'
?C: instead of 'int status'. You probably need to include <sys/wait.h>
?C: in the former case (see I_SYSWAIT).
?C:.
?C:UNION_WAIT3:
?C: This symbol if defined indicates to the C program that the first argument
?C: for the wait3() system call should be declared as 'union wait status'
```

```
?C: instead of 'int status'. You probably need to include <sys/wait.h>
?C: in the former case (see I_SYSWAIT). It seems safe to assume that
 the
?C: same rule applies to the second parameter of wait4().
?C:.
?H:#$d_uwait UNION_WAIT  /**/
?H:#$d_uwait3 UNION_WAIT3 /**/
?H:.
?T:val2 flags f also
?LINT:set d_uwait d_uwait3
: see if union wait is available
echo " "
?X:
?X: Unfortunately, we can't just grep <sys/wait.h> for "union wait" because
?X: some weird systems (did I hear HP-UX?) define union wait only when _BSD
?X: is defined. The same thing happens on OSF/1, who is pushing weirdness to
?X: its limits by requiring wait() to use (int *) but wait3() to use
?X: (union wait *), unless _BSD is defined and -lbsd is used, in which case
?X: wait() also expects (union wait *). Aaargh!!--RAM
?X:
set X $cppflags
shift
flags=''
also=''
for f in $*; do
 case "$f" in
 *NO_PROTO*) ;;
 *) flags="$flags $f";;
 esac
done
$cat `./findhdr sys/wait.h` /dev/null | \
 $cppstdin $flags $cppminus >wait.out 2>/dev/null
if $contains 'union.*wait.*{' wait.out >/dev/null 2>&1 ; then
 echo "Looks like your <sys/wait.h> knows about 'union wait'..."
 >&4
 val="$define"
@if UNION_WAIT
 also='also '
 if $contains 'extern.*wait[  ]*([  ]*int' wait.out >/dev/null 2>&1
 then
  echo "But wait() seems to expect an 'int' pointer (POSIX way)." >&4
  val="$undef"
  also=''
 elif $contains 'extern.*wait[  ]*([  ]*union' wait.out >/dev/null 2>&1
 then
  echo "And indeed wait() expects an 'union wait' pointer (BSD way)." >&4
 else
  echo "So we'll use that for wait()." >&4
```

```
 fi
@end
@if UNION_WAIT3 || d_uwait3
 val2="$define"
@end
@if UNION_WAIT3
 if $contains 'extern.*wait3[  ]*([  ]*int' wait.out >/dev/null 2>&1
 then
  echo "However wait3() seems to expect an 'int' pointer, weird." >&4
  val2="$undef"
 elif $contains 'extern.*wait3[  ]*([  ]*union' wait.out >/dev/null 2>&1
 then
  echo "And wait3() ${also}expects an 'union wait' pointer, fine." >&4
 else
  echo "As expected, wait3() ${also}uses an 'union wait' pointer." >&4
 fi
@end
else
 echo "No trace of 'union wait' in <sys/wait.h>..." >&4
 val="$undef"
@if UNION_WAIT && UNION_WAIT3
 echo
 "Both wait() and wait3() will use a plain 'int' pointer then." >&4
@elsif UNION_WAIT
 echo "Your wait() should be happy with a plain 'int' pointer." >&4
@elsif UNION_WAIT3
 echo "Your wait3() should be happy with a plain 'int' pointer." >&4
@end
fi
set d_uwait
eval $setvar
@if UNION_WAIT3 || d_uwait3
val="$val2"; set d_uwait3
eval $setvar
@end
$rm -f wait.out
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_uwait.U
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```
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?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
?MAKE:d_setproctitle: Inlibc
?MAKE: -pick add $@ %<
?S:d_setproctitle:
?S: This variable conditionally defines the HAS_SETPROCTITLE symbol,
?S: which indicates to the C program that the setproctitle() routine
?S: is available.
?S:.
?C:HAS_SETPROCTITLE:
?C: This symbol, if defined, indicates that the setproctitle routine is
?C: available to set process title.
?C:.
?H:#$d_setproctitle HAS_SETPROCTITLE  /**/
?H:.
?LINT:set d_setproctitle
: see if setproctitle exists
set setproctitle d_setproctitle
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_setproctitle.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_byacc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_byacc.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:31:14  ram
?RCS: patch61: created
?RCS:
?MAKE:d_byacc: byacc Setvar
?MAKE: -pick add $@ %<
?S:d_byacc:
?S: This variable indicates whether byacc is available.
?S: If the user has specified 'portability', then Makefile.SH
?S: sees $byacc='byacc' whether or not the user actually has
?S: byacc.  This variable allows us to determine in a makefile
?S: if we really
```

```
 have byacc.
?S:.
?LINT:set d_byacc
: Check if we really have byacc
case "$byacc" in
"|'byacc') val="$undef" ;;
*) val="$define" ;;
esac
set d_byacc
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_byacc.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:longdblinfbytes longdblnanbytes doubleinfbytes doublenanbytes: Inlibc \
 cat Compile run rm_try Setvar echo d_longdbl \
 doublekind doublesize longdblkind longdblsize
?MAKE: -pick add $@ %<
?S:longdblinfbytes:
?S: This variable contains comma-separated list of hexadecimal bytes
?S: for the long double precision infinity.
?S:.
?S:longdblnanbytes:
?S: This variable contains comma-separated list of hexadecimal bytes
?S: for the long double precision not-a-number.
?S:.
?S:doubleinfbytes:
?S: This variable contains comma-separated list of hexadecimal bytes
?S: for the double precision infinity.
?S:.
?S:doublenanbytes:
?S: This variable contains comma-separated list of hexadecimal bytes
?S: for
 the double precision not-a-number.
?S:.
?C:DOUBLEINFBYTES:
?C: This symbol, if defined, is a comma-separated list of
?C: hexadecimal bytes for the double precision infinity.
?C:.
```

```
?C:DOUBLENANBYTES:
?C: This symbol, if defined, is a comma-separated list of
?C: hexadecimal bytes (0xHH) for the double precision not-a-number.
?C:.
?C:LONGDBLINFBYTES:
?C: This symbol, if defined, is a comma-separated list of
?C: hexadecimal bytes for the long double precision infinity.
?C:.
?C:LONGDBLNANBYTES:
?C: This symbol, if defined, is a comma-separated list of
?C: hexadecimal bytes (0xHH) for the long double precision not-a-number.
?C:.
?H:#define DOUBLEINFBYTES  $doubleinfbytes  /**/
?H:#define DOUBLENANBYTES  $doublenanbytes  /**/
?H:#define LONGDBLINFBYTES $longdblinfbytes  /**/
?H:#define LONGDBLNANBYTES $longdblnanbytes  /**/
?H:.
?F:!try
: Check what kind of inf/nan your system has
$echo "Checking the kind of infinities and nans you have..." >&4
$echo "(The following tests may crash.  That's
 okay.)" >&4
$cat >try.c <<EOP
#define DOUBLESIZE $doublesize
#$d_longdbl HAS_LONG_DOUBLE
#ifdef HAS_LONG_DOUBLE
#define LONG_DOUBLESIZE $longdblsize
#define LONG_DOUBLEKIND $longdblkind
#endif
#include <math.h>
#include <string.h>
#include <stdio.h>
/* Note that whether the sign bit is on or off
* for NaN depends on the CPU/FPU, and possibly
* can be affected by the build toolchain.
*
* For example for older MIPS and HP-PA 2.0 the quiet NaN is:
* 0x7f, 0xf7, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff
* 0x7f, 0xf4, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00
* (respectively) as opposed to the more usual
* 0x7f, 0xf8, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00
*
* Pre-IEEE-754 floating point format do not even have inf/nan support
* at all.  They might have a "max" value (DBL_MAX), which may be deadly
* to even mention, causing immediate SIGFPE or equivalent: this is
* the case with VAX floating point, for example.
*/
static void bytes(void *v, unsigned int n) {
```

```
 unsigned char *p = (unsigned
 char *)v;
 int i;
 for (i = 0; i < n; i++) {
   printf("0x%02x%s", p[i], i < n - 1 ? ", " : "\n");
 }
}
int main(int argc, char *argv[]) {
  /* We cannot use 1.0/0.0 and 0.0/0.0 (with L suffixes for long double)
   * because some compilers are 'smart' and not only warn but refuse to
   * compile such 'illegal' values. */
  double dinf = exp(1e9);
  double dnan = sqrt(-1.0);
#ifdef HAS_LONG_DOUBLE
  long double ldinf = (long double)exp(1e9);
  long double ldnan = (long double)sqrt(-1.0);
# if LONG_DOUBLEKIND == 3 || LONG_DOUBLEKIND == 4
/* the 80-bit long doubles might have garbage in their excess bytes */
   memset((char *)&ldinf + 10, '\0', LONG_DOUBLESIZE - 10);
   memset((char *)&ldnan + 10, '\0', LONG_DOUBLESIZE - 10);
# endif
#endif
 if (argc == 2) {
   switch (argv[1][0]) {
   case '1': bytes(&dinf, sizeof(dinf)); break;
   case '2': bytes(&dnan, sizeof(dnan)); break;
#ifdef HAS_LONG_DOUBLE
   case '3': bytes(&ldinf, sizeof(ldinf)); break;
   case '4': bytes(&ldnan,
 sizeof(ldnan)); break;
#endif
   }
 }
 return 0;
}
EOP
set try
if eval $compile; then
   doubleinfbytes=`$run ./try 1`
   doublenanbytes=`$run ./try 2`
   case "$d_longdbl" in
   $define)
     longdblinfbytes=`$run ./try 3`
     longdblnanbytes=`$run ./try 4`
     ;;
   esac
else
   # Defaults in case the above test program failed.
```

```
  case "$doublekind" in
  1) # IEEE 754 32-bit LE
    doubleinfbytes='0x00, 0x00, 0xf0, 0x7f'
    doublenanbytes='0x00, 0x00, 0xf8, 0x7f'
    ;;
  2) # IEEE 754 32-bit BE
    doubleinfbytes='0x7f, 0xf0, 0x00, 0x00'
    doublenanbytes='0x7f, 0xf8, 0x00, 0x00'
    ;;
  3) # IEEE 754 64-bit LE
    doubleinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf0, 0x7f'
    doublenanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf8, 0x7f'
    ;;
  4) # IEEE 754 64-bit BE
    doubleinfbytes='0x7f, 0xf0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00'
    doublenanbytes='0x7f, 0xf8, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00'

 ;;
  5) # IEEE 754 128-bit LE
    doubleinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf0,
0x7f'
    doublenanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf8,
0x7f'
    ;;
  6) # IEEE 754 128-bit BE
    doubleinfbytes='0x7f, 0xf0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
    doublenanbytes='0x7f, 0xf8, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
    ;;
  7) # IEEE 754 64-bit mixed: 32-bit LEs in BE
    doubleinfbytes='0x00, 0x00, 0xf0, 0x7f, 0x00, 0x00, 0x00, 0x00'
    doublenanbytes='0x00, 0x00, 0xf8, 0x7f, 0x00, 0x00, 0x00, 0x00'
    ;;
  8) # IEEE 754 64-bit mixed: 32-bit BEs in LE
    doubleinfbytes='0x00, 0x00, 0x00, 0x00, 0x7f, 0xf0, 0x00, 0x00'
    doublenanbytes='0x00, 0x00, 0x00, 0x00, 0x7f, 0xf8, 0x00, 0x00'
    ;;
  9|10|11|12|13|14) # VAX/Cray/IBM floating
 point formats, no inf/nan.
    doubleinfbytes=$undef
    doublenanbytes=$undef
    ;;
  *) # No idea.
    doubleinfbytes=$undef
    doublenanbytes=$undef
    ;;
  esac
```

```
  case "$longdblkind" in
  1) # IEEE 754 128-bit LE
     longdblinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xff,
0x7f'
     longdblnanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x80, 0xff,
0x7f'
     ;;
  2) # IEEE 754 128-bit BE
     longdblinfbytes='0x7f, 0xff, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
     longdblnanbytes='0x7f, 0xff, 0x80, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
     ;;
  3) # IEEE 754 80-bit LE, 12 or 16 bytes (x86)
     case "$longdblsize" in
     12) # x86 32-bit (96 bits, or 4 x 32, or 12 x 8)
        longdblinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x80, 0xff, 0x7f,
 0x00, 0x00'
        longdblnanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xc0, 0xff, 0x7f, 0x00, 0x00'
        ;;
     16) # x86_64
        longdblinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x80, 0xff, 0x7f, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
        longdblnanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xc0, 0xff, 0x7f, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
        ;;
     *)  # No idea.
        longdblinfbytes=$undef
        longdblnanbytes=$undef
     ;;
     esac
     ;;
  4) # IEEE 754 80-bit BE, 12 or 16 bytes
     case "$longdblsize" in
     12) # 32-bit system
        longdblinfbytes='0x7f, 0xff, 0x80, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00'
        longdblnanbytes='0x7f, 0xff, 0xc0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00'
        ;;
     16) # 64-bit system
        longdblinfbytes='0x7f, 0xff, 0x80, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
         longdblnanbytes='0x7f, 0xff, 0xc0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
        ;;
     *)  # No idea.
        longdblinfbytes=$undef
        longdblnanbytes=$undef
     ;;
```

```
    esac
    ;;
  5) # 128-bit LE-LE "double double"
    longdblinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf0,
0x7f'
    longdblnanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf8,
0x7f'
    ;;
  6) # 128-bit BE-BE "double double"
    longdblinfbytes='0x7f, 0xf0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
    longdblnanbytes='0x7f, 0xf8, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
    ;;
  7) # 128-bit LE-BE "double double"
    longdblinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf0, 0x7f, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'

    longdblnanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf8, 0x7f, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
    ;;
  8) # 128-bit BE-LE "double double"
    longdblinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x7f, 0xf0, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
    longdblnanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x7f, 0xf8, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
    ;;
  9|10|11|12|13|14) # VAX/Cray/IBM floating point formats, no inf/nan.
    longdblinfbytes=$undef
    longdblnanbytes=$undef
    ;;
  *) # No idea.
    longdblinfbytes=$undef
    longdblnanbytes=$undef
    ;;
  esac
fi
# In case the program crashed the values are empty, turn them undef.
case "$doubleinfbytes" in
") doubleinfbytes=$undef ;;
esac
case "$doublenanbytes" in
") doublenanbytes=$undef ;;
esac
case "$longdblinfbytes" in
") longdblinfbytes=$undef ;;
esac
case "$longdblnanbytes" in
```

```
") longdblnanbytes=$undef ;;
esac
$rm_try
```

Found in path(s):
*
/opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/infnan.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vaproto.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Orginal Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: vaproto.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:17:16  ram
?RCS: patch16: definition of _V now appears only when needed
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:59  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:vaproto: prototype i_stdarg Setvar
?MAKE: -pick add $@ %<
?S:vaproto:
?S: This variable conditionally defines CAN_VAPROTO on systems supporting
?S: prototype
 declaration of functions with a variable number of
?S: arguments. See also prototype.
?S:.
?C:CAN_VAPROTO ~ %<:
?C: This variable is defined on systems supporting prototype declaration
?C: of functions with a variable number of arguments.
?C:.
?C:_V:
?C: This macro is used to declare function parameters in prototypes for
?C: functions with a variable number of parameters. Use double parentheses.
?C: For example:
?C:
?C:  int printf _V((char *fmt, ...));
?C:
```

```
?C: Remember to use the plain simple _() macro when declaring a function
?C: with no variable number of arguments, since it might be possible to
?C: have a non-effect _V() macro and still get prototypes via _().
?C:.
?H:?%<:#$vaproto CAN_VAPROTO /**/
?H:?_V:#ifdef CAN_VAPROTO
?H:?_V:#define _V(args) args
?H:?_V:#else
?H:?_V:#define _V(args) ()
?H:?_V:#endif
?H:.
?LINT:set vaproto
: see if prototypes support variable argument declarations
echo " "
case "$prototype$i_stdarg" in
$define$define)
 echo "It appears we'll be able
 to prototype varargs functions." >&4
 val="$define"
 ;;
*)
 echo "Too bad... We won't be using prototyped varargs functions..." >&4
 val="$undef"
 ;;
esac
set vaproto
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/vaproto.U
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```
?RCS: $Id: i_socks.U,v $
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_socks: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_socks:
?S: This variable conditionally defines the I_SOCKS symbol, and indicates
?S: whether a C program should include <socks.h>.
?S:.
?C:I_SOCKS:
?C: This symbol, if defined, indicates that <socks.h> exists and
```

```
?C: should be included.
?C:.
?H:#$i_socks I_SOCKS  /**/
?H:.
?LINT:set i_socks
: see if this is a socks.h system
set socks.h i_socks
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_socks.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: pager.U,v $
?RCS: Revision 3.0.1.2  1995/01/30  14:41:26  ram
?RCS: patch49: ensure dflt gets initialized in case no pagers are found (WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:27:45  ram
?RCS: patch36: replaced Myread by Getfile in the dependency line
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:30  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:pager: pg more less Getfile Oldconfig
?MAKE: -pick add $@ %<
?S:pager:
?S: This variable contains the name of the preferred pager
 on the system.
?S: Usual values are (the full pathnames of) more, less, pg, or cat.
?S:.
: locate the preferred pager for this system
fn=f/
case "$pager" in
")
 dflt="
 case "$pg" in
 /*) dflt=$pg;;
```

```
 [a-zA-Z]:/*) dflt=$pg;;
 esac
 case "$more" in
 /*) dflt=$more;;
 [a-zA-Z]:/*) dflt=$more;;
 esac
 case "$less" in
 /*) dflt=$less;;
 [a-zA-Z]:/*) dflt=$less;;
 esac
 case "$dflt" in
 ") dflt=/usr/ucb/more;;
 esac
 ;;
*) dflt="$pager"
 ;;
esac
?X: Instruct ./getfile to trust the default pager value,
?X: even if it does not begin with a slash.  For example, on os2,
?X: pager might be cmd /c more.  Also, it might include some options,
?X: such as '/usr/bin/less -R'.  ./getfile would report that
?X: "/usr/bin/less -R" doesn't exist.
?X: See comments in Getfile.U.
fn="f/($dflt)"
echo " "
rp='What pager is used on your system?'
. ./getfile
pager="$ans"
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/pager.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethbyad.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_gethbyaddr: Inlibc
?MAKE: -pick add $@ %<
?S:d_gethbyaddr:
?S: This variable conditionally defines the HAS_GETHOSTBYADDR symbol, which
?S: indicates to the C program that the gethostbyaddr() routine is available
?S: to look up hosts by their IP addresses.
?S:.
```

```
?C:HAS_GETHOSTBYADDR:
?C: This symbol, if defined, indicates that the gethostbyaddr() routine is
?C: available to look up hosts by their IP addresses.
?C:.
?H:#$d_gethbyaddr HAS_GETHOSTBYADDR  /**/
?H:.
?LINT:set d_gethbyaddr
: see if gethostbyaddr exists
set gethostbyaddr d_gethbyaddr
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_gethbyad.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: orderlib.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  16:18:18  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: likewise for .o replaced by $_o
?RCS: patch61: now uses the ar located by Loc.U
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:33:04  ram
?RCS: patch45: allows hint files to specify their own value for 'ranlib'
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:26:48  ram
?RCS: patch36: now performs a real small compile for accurate checks (ADO)
?RCS:
?RCS: Revision 3.0.1.1
  1994/08/29  16:31:17  ram
?RCS: patch32: use cc variable instead of hardwired 'cc' in 1st compile
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:orderlib ranlib: Loc ar cat test rm +cc +ccflags +ldflags +libs _a _o
?MAKE: -pick add $@ %<
?S:orderlib:
```

```
?S: This variable is "true" if the components of libraries must be ordered
?S: (with `lorder $* | tsort`) before placing them in an archive.  Set to
?S: "false" if ranlib or ar can generate random libraries.
?S:.
?S:ranlib:
?S: This variable is set to the pathname of the ranlib program, if it is
?S: needed to generate random libraries.  Set to ":" if ar can generate
?S: random libraries or if random libraries are not supported
?S:.
?F:!foobar
: see if ar generates random libraries by itself
echo " "
echo "Checking how to generate random libraries on your machine..." >&4
?X: Some systems (like MIPS) complain when running ar... Others like Ultrix
?X: need an explicit 'ar ts'
 to add the table of contents.
?X: Still others like Linux run ar ts successfully, but still need ranlib.
?X: This set of tests seems the minimum necessary to check out Linux.
?X: We need to explicitly put the entries in out-of-order so that Sun's ld
?X: will fail.  (Otherwise it complains, but gives an exit status of 0.)
echo 'int bar1() { return bar2(); }' > bar1.c
echo 'int bar2() { return 2; }' > bar2.c
$cat > foo.c <<'EOP'
int main() { printf("%d\n", bar1()); exit(0); }
EOP
$cc $ccflags -c bar1.c >/dev/null 2>&1
$cc $ccflags -c bar2.c >/dev/null 2>&1
$cc $ccflags -c foo.c >/dev/null 2>&1
$ar rc bar$_a bar2$_o bar1$_o >/dev/null 2>&1
if $cc $ccflags $ldflags -o foobar foo$_o bar$_a $libs > /dev/null 2>&1 &&
 ./foobar >/dev/null 2>&1; then
 echo "ar appears to generate random libraries itself."
 orderlib=false
 ranlib=":"
elif $ar ts bar$_a >/dev/null 2>&1 &&
 $cc $ccflags $ldflags -o foobar foo$_o bar$_a $libs > /dev/null 2>&1 &&
 ./foobar >/dev/null 2>&1; then
  echo "a table of contents
 needs to be added with 'ar ts'."
  orderlib=false
  ranlib="$ar ts"
else
?X: Allow hints to specify their own ranlib "script". For instance, on
?X: some NeXT machines, the timestamp put by ranlib is not correct, and this
?X: may raise tedious recompiles for nothing. Therefore, NeXT may add the
?X: ranlib='sleep 5; /bin/ranlib' line in their hints to "fix" that.
?X: (reported by Andreas Koenig <k@franz.ww.tu-berlin.de>)
 case "$ranlib" in
```

```
 :) ranlib=";;
 ")
  ranlib=`./loc ranlib X /usr/bin /bin /usr/local/bin`
  $test -f $ranlib || ranlib="
  ;;
 esac
 if $test -n "$ranlib"; then
  echo "your system has '$ranlib'; we'll use that."
  orderlib=false
 else
  echo "your system doesn't seem to support random libraries"
  echo "so we'll use lorder and tsort to order the libraries."
  orderlib=true
  ranlib=":"
 fi
fi
$rm -f foo* bar*
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/orderlib.U
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```
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_sresgproto: Hasproto i_unistd
?MAKE: -pick add $@ %<
?S:d_sresgproto:
?S: This variable conditionally defines the HAS_SETRESGID_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the setresgid() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_SETRESGID_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the setresgid() function.  Otherwise, it is up
?C: to the program to supply one.  Good guesses are
?C:  extern
 int setresgid(uid_t ruid, uid_t euid, uid_t suid);
?C:.
```

```
?H:#$d_sresgproto HAS_SETRESGID_PROTO /**/
?H:.
?LINT:set d_sresgproto
: see if prototype for setresgid is available
echo " "
set d_sresgproto setresgid $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_sresgproto.U
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```
?RCS: $Id: d_drem.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_drem.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:12:14  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_drem: Inlibc
?MAKE: -pick add $@ %<
?S:d_drem:
?S: This variable conditionally defines the HAS_DREM symbol, which
?S: indicates to the C program that the drem() routine is available.
?S:.
?C:HAS_DREM :
?C: This symbol, if defined, indicates that the drem routine is
?C: available.
  This routine is roughly the same as fmod, i.e. it
?C: computes the remainder r=x-n*y, where n=rint(x/y), whereas fmod
?C: uses n=trunc(x/y).
?C:.
?H:#$d_drem HAS_DREM  /**/
?H:.
?LINT:set d_drem
: see if drem exists
set drem d_drem
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_drem.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fstatfs : Inlibc
?MAKE: -pick add $@ %<
?S:d_fstatfs:
?S: This variable conditionally defines the HAS_FSTATFS symbol, which
?S: indicates to the C program that the fstatfs() routine is available.
?S:.
?C:HAS_FSTATFS:
?C: This symbol, if defined, indicates that the fstatfs routine is
?C: available to stat filesystems by file descriptors.
?C:.
?H:#$d_fstatfs HAS_FSTATFS  /**/
?H:.
?LINT:set d_fstatfs
: see if fstatfs exists
set fstatfs d_fstatfs
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fstatfs.U
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```
?RCS: $Id: d_setprotoent_r.U,v 0RCS:
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?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_setprotoent_r setprotoent_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_setprotoent_r:
?S: This variable conditionally defines the HAS_SETPROTOENT_R symbol,
```

```
?S: which indicates to the C program that the setprotoent_r()
?S: routine is available.
?S:.
?S:setprotoent_r_proto:
?S: This variable encodes the prototype of setprotoent_r.
?S: It is zero if d_setprotoent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setprotoent_r
?S: is defined.
?S:.
?C:HAS_SETPROTOENT_R:
?C: This symbol, if defined, indicates that the setprotoent_r
 routine
?C: is available to setprotoent re-entrantly.
?C:.
?C:SETPROTOENT_R_PROTO:
?C: This symbol encodes the prototype of setprotoent_r.
?C: It is zero if d_setprotoent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setprotoent_r
?C: is defined.
?C:.
?H:#$d_setprotoent_r HAS_SETPROTOENT_R /**/
?H:#define SETPROTOENT_R_PROTO $setprotoent_r_proto /**/
?H:.
?T:try hdrs d_setprotoent_r_proto
: see if setprotoent_r exists
set setprotoent_r d_setprotoent_r
eval $inlibc
case "$d_setprotoent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_setprotoent_r_proto:$usethreads" in
 ":define") d_setprotoent_r_proto=define
  set d_setprotoent_r_proto setprotoent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_setprotoent_r_proto" in
 define)
 case "$setprotoent_r_proto" in
 "|0) try='int setprotoent_r(int, struct protoent_data*);'
 ./protochk "$extern_C $try" $hdrs && setprotoent_r_proto=I_ID ;;
 esac
 case "$setprotoent_r_proto"
 in
 "|0) try='void setprotoent_r(int, struct protoent_data*);'
 ./protochk "$extern_C $try" $hdrs && setprotoent_r_proto=V_ID ;;
 esac
 case "$setprotoent_r_proto" in
```

```
"|0) d_setprotoent_r=undef
 setprotoent_r_proto=0
 echo "Disabling setprotoent_r, cannot determine prototype." >&4 ;;
* ) case "$setprotoent_r_proto" in
 REENTRANT_PROTO*) ;;
 *) setprotoent_r_proto="REENTRANT_PROTO_$setprotoent_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "setprotoent_r has no prototype, not using it." >&4 ;;
 esac
 d_setprotoent_r=undef
 setprotoent_r_proto=0
 ;;
esac
;;
*) setprotoent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_setprotoent_r.U
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```
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_builtin_choose_expr d_builtin_expect : Compile Setvar cat run rm_try
?MAKE: -pick add $@ %<
?S:d_builtin_choose_expr:
?S: This conditionally defines HAS_BUILTIN_CHOOSE_EXPR, which
?S: indicates that the compiler supports __builtin_choose_expr(x,y,z).
?S: This built-in function is analogous to the "x?y:z" operator in C,
?S: except that the expression returned has its type unaltered by
?S: promotion rules. Also, the built-in function does not evaluate
?S: the expression that was not chosen.
?S:.
?S:d_builtin_expect:
?S: This conditionally
```

```
 defines HAS_BUILTIN_EXPECT, which indicates
?S: that the compiler supports __builtin_expect(exp,c).  You may use
?S: __builtin_expect to provide the compiler with branch prediction
?S: information.
?S:.
?C:HAS_BUILTIN_CHOOSE_EXPR:
?C: Can we handle GCC builtin for compile-time ternary-like expressions
?C:.
?C:HAS_BUILTIN_EXPECT:
?C: Can we handle GCC builtin for telling that certain values are more
?C: likely
?C:.
?H:#$d_builtin_expect HAS_BUILTIN_EXPECT /**/
?H:#$d_builtin_choose_expr HAS_BUILTIN_CHOOSE_EXPR /**/
?H:.
?F:!try
?LINT:set d_builtin_expect d_builtin_choose_expr
: Look for GCC-style __builtin_choose_expr
case "$d_builtin_choose_expr" in
")
   echo " "
   echo "Checking whether your compiler can handle __builtin_choose_expr ..." >&4
   $cat >try.c <<'EOCP'
#include <assert.h>
#include <stdlib.h>
#include <stdio.h>

#define SYRINX(x) __builtin_choose_expr( x, (1056*2), (103*50) )

int main(void) {
   assert( SYRINX(1) == 2112 );
   assert( SYRINX(1) != 5150 );
    assert( SYRINX(0) == 5150 );
   assert( SYRINX(0) != 2112 );
   puts( "All good!" );
   exit(0);
}

EOCP
   set try
   if eval $compile && $run ./try; then
 echo "Your C compiler supports __builtin_choose_expr."
 val="$define"
   else
 echo "Your C compiler doesn't seem to understand __builtin_choose_expr."
 val="$undef"
   fi
;;
```

```
*) val="$d_builtin_choose_expr" ;;
esac

set d_builtin_choose_expr
eval $setvar
$rm_try

: Look for GCC-style __builtin_expect
case "$d_builtin_expect" in
")
   echo " "
   echo "Checking whether your compiler can handle __builtin_expect ..." >&4
   $cat >try.c <<'EOCP'
int main(void) {
   int n = 50;
   if ( __builtin_expect(n, 0) ) n = 1;
   /* Remember shell exit code truth is 0, C truth is non-zero */
   return !(n == 1);
}
EOCP
   set try
   if eval $compile && $run ./try; then
 echo "Your C compiler supports __builtin_expect."
 val="$define"
   else
 echo "Your C compiler doesn't seem to understand __builtin_expect."
 val="$undef"
    fi
   ;;
*) val="$d_builtin_expect" ;;
esac

set d_builtin_expect
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_builtin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_itimer.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_itimer.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:25  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_itimer: Inlibc
?MAKE: -pick add $@ %<
?S:d_itimer:
?S: This variable conditionally defines the HAS_ITIMER symbol, which
?S: indicates that the setitimer() routine exists.  The setitimer()
?S: routine supports sub-second accuracy for one real-time and two
?S: cpu clocks.
?S:.
?C:HAS_ITIMER (ITIMER):
?C: This symbol, if defined, indicates
 that the setitimer() routine exists.
?C:.
?H:#$d_itimer HAS_ITIMER /**/
?H:.
?LINT:set d_itimer
: see if setitimer exists
set setitimer d_itimer
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_itimer.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Myinit.U,v 3.0 1993/08/18 12:05:07 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
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?RCS:
?RCS: $Log: Myinit.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: If you want to initialize any default values, copy this unit to your
```

```
?X: personal U directory and add the assignments to the end.  This file
?X: is included after variables are initialized but before any old
?X: config.sh file is read in and before any Configure switch processing.
?X:
?MAKE:Myinit
 libswanted: Init
?MAKE: -pick add $@ %<
?S:libswanted:
?S: This variable holds a list of all the libraries we want to
?S: search.  The order is chosen to pick up the c library
?S: ahead of ucb or bsd libraries for SVR4.
?S:.
?LINT:extern usevfork glibpth
?LINT:change usevfork glibpth
: List of libraries we want.
?X: Put crypt here, even though I should really fix d_crypt.U to look
?X: for it correctly, including possible shared library versions.
: If anyone needs extra -lxxx, put those in a hint file.
libswanted="cl pthread socket bind inet nsl ndbm gdbm dbm db malloc dl ld"
libswanted="$libswanted sun m crypt sec util c cposix posix ucb bsd BSD"
: We probably want to search /usr/shlib before most other libraries.
: This is only used by the lib/ExtUtils/MakeMaker.pm routine extliblist.
glibpth=`echo " $glibpth " | sed -e 's! /usr/shlib ! !'`
glibpth="/usr/shlib $glibpth"
: Do not use vfork unless overridden by a hint file.
usevfork=false
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Myinit.U
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```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getcwd: Inlibc
?MAKE: -pick add $@ %<
?S:d_getcwd:
?S: This variable conditionally defines the HAS_GETCWD symbol, which
?S: indicates to the C program that the getcwd() routine is available
?S: to get the current working directory.
?S:.
?C:HAS_GETCWD :
?C: This symbol, if defined, indicates that the getcwd routine is
```

```
?C: available to get the current working directory.
?C:.
?H:#$d_getcwd HAS_GETCWD  /**/
?H:.
?LINT:set d_getcwd
: see if getcwd exists
set getcwd d_getcwd
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_getcwd.U
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```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isnan: Inlibc cat Compile rm_try Setvar
?MAKE: -pick add $@ %<
?S:d_isnan:
?S: This variable conditionally defines the HAS_ISNAN symbol, which
?S: indicates to the C program that the isnan() routine is available.
?S:.
?C:HAS_ISNAN:
?C: This symbol, if defined, indicates that the isnan routine is
?C: available to check whether a double is a NaN.
?C:.
?H:#$d_isnan HAS_ISNAN  /**/
?H:.
?LINT:set d_isnan
: check for isnan
echo "Checking to see if you have isnan..." >&4
$cat >try.c <<EOCP
#include <math.h>
int main() { return isnan(0.0); }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have isnan."
else
 val="$undef"
 echo "You do not have isnan."
fi
```

```
$rm_try
set d_isnan
eval $setvar

Found
 in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_isnan.U
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_inttypes: Inhdr cat rm_try Setvar Compile
?MAKE: -pick add $@ %<
?S:i_inttypes:
?S: This variable conditionally defines the I_INTTYPES symbol,
?S: and indicates whether a C program should include <inttypes.h>.
?S:.
?C:I_INTTYPES:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <inttypes.h>.
?C:.
?H:#$i_inttypes   I_INTTYPES                /**/
?H:.
?LINT:set i_inttypes
: see if inttypes.h is available
: we want a real compile instead of Inhdr because some systems
: have an inttypes.h
 which includes non-existent headers
echo " "
$cat >try.c <<EOCP
#include <inttypes.h>
int main() {
 static int32_t foo32 = 0x12345678;
}
EOCP
set try
if eval $compile; then
 echo "<inttypes.h> found." >&4
 val="$define"
```

```
else
 echo "<inttypes.h> NOT found." >&4
 val="$undef"
fi
$rm_try
set i_inttypes
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_inttypes.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: models.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:13:17  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:02:39  ram
?RCS: patch6: added default for large
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:models split small medium large huge: test cat Myread sysman Oldconfig \
 Loc Warn contains rm
?MAKE: -pick add $@ %<
?S:models:
?S: This variable contains the list of memory models supported by
 this
?S: system.  Possible component values are none, split, unsplit, small,
?S: medium, large, and huge.  The component values are space separated.
?S:.
?S:split:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program that will run in separate I and D space, for those
?S: machines that support separation of instruction and data space.  It is
?S: up to the Makefile to use this.
?S:.
```

```
?S:small:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program running with a small memory model.  It is up to
?S: the Makefile to use this.
?S:.
?S:medium:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program running with a medium memory model.  If the
?S: medium model is not supported, contains the flag to produce large
?S: model programs.  It is up to the Makefile to use this.
?S:.
?S:large:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to
 produce a program running with a large memory model.  It is up to
?S: the Makefile to use this.
?S:.
?S:huge:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program running with a huge memory model.  If the
?S: huge model is not supported, contains the flag to produce large
?S: model programs.  It is up to the Makefile to use this.
?S:.
?T:unsplit tans modelcc
?F:!pdp11
?D:large=''
?LINT:extern cc
: see what memory models we can support
case "$models" in
'')
?X: We may not use Cppsym or we get a circular dependency through cc.
?X: But this should work regardless of which cc we eventually use.
 $cat >pdp11.c <<'EOP'
int main() {
#ifdef pdp11
 exit(0);
#else
 exit(1);
#endif
}
EOP
?X: Run cc in a subshell in case they don't have a 'cc' command.
?X: Presumably they do have gcc or something.
 case "$cc" in
 '') modelcc="$cc" ;;
 *) modelcc="cc" ;;
 esac
 ( $modelcc -o pdp11 pdp11.c ) >/dev/null 2>&1
```

```
 if $test -f pdp11 && ./pdp11 2>/dev/null;
 then
  dflt='unsplit split'
 else
  tans=`./loc . X /lib/small /lib/large /usr/lib/small /usr/lib/large /lib/medium /usr/lib/medium /lib/huge`
  case "$tans" in
  X) dflt='none';;
  *) if $test -d /lib/small || $test -d /usr/lib/small; then
    dflt='small'
   else
    dflt=''
   fi
   if $test -d /lib/medium || $test -d /usr/lib/medium; then
    dflt="$dflt medium"
   fi
   if $test -d /lib/large || $test -d /usr/lib/large; then
    dflt="$dflt large"
   fi
   if $test -d /lib/huge || $test -d /usr/lib/huge; then
    dflt="$dflt huge"
   fi
  esac
 fi;;
*) dflt="$models";;
esac
$cat <<EOM

Some systems have different model sizes.  On most systems they are called
small, medium, large, and huge.  On the PDP11 they are called unsplit and
split.  If your system doesn't support different memory models, say "none".
If you wish to force everything to one memory model, say "none" here and
put the appropriate flags later when it asks you for other cc and ld flags.
Venix systems may wish
 to put "none" and let the compiler figure things out.
(In the following question multiple model names should be space separated.)

The default for most systems is "none".

EOM
rp="Which memory models are supported?"
. ./myread
models="$ans"

case "$models" in
none)
 small=''
 medium=''
 large=''
```

```
 huge=''
 unsplit=''
 split=''
 ;;
*split)
 case "$split" in
 '') if $contains '\-i' $sysman/ld.1 >/dev/null 2>&1 || \
    $contains '\-i' $sysman/cc.1 >/dev/null 2>&1; then
   dflt='-i'
  else
   dflt='none'
  fi;;
 *) dflt="$split";;
 esac
 rp="What flag indicates separate I and D space?"
 . ./myread
 tans="$ans"
 case "$tans" in
 none) tans='';;
 esac
 split="$tans"
 unsplit='';;
*large*|*small*|*medium*|*huge*)
 case "$models" in
 *large*)
  case "$large" in
  '') dflt='-Ml';;
  *) dflt="$large";;
  esac
 rp="What flag indicates large model?"
 . ./myread
 tans="$ans"
 case "$tans" in
 none) tans='';
 esac
 large="$tans";;
 *) large='';;
 esac
 case "$models" in
 *huge*) case "$huge" in
  '')
 dflt='-Mh';;
  *) dflt="$huge";;
  esac
  rp="What flag indicates huge model?"
  . ./myread
  tans="$ans"
  case "$tans" in
```

```
 none) tans='';
 esac
 huge="$tans";;
*) huge="$large";;
esac
case "$models" in
*medium*) case "$medium" in
 '') dflt='-Mm';;
 *) dflt="$medium";;
 esac
 rp="What flag indicates medium model?"
 . ./myread
 tans="$ans"
 case "$tans" in
 none) tans='';
 esac
 medium="$tans";;
*) medium="$large";;
esac
case "$models" in
*small*) case "$small" in
 '') dflt='none';;
 *) dflt="$small";;
 esac
 rp="What flag indicates small model?"
 . ./myread
 tans="$ans"
 case "$tans" in
 none) tans='';
 esac
 small="$tans";;
*) small='';;
esac
;;
*)
 ./warn "Unrecognized memory models--you may have to edit Makefile.SH"
 ;;
esac
$rm -f pdp11.* pdp11
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/models.U
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```
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?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
```

```
?RCS:
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?RCS:
?MAKE:d_isfinite: Inlibc cat Compile rm_try Setvar
?MAKE: -pick add $@ %<
?S:d_isfinite:
?S: This variable conditionally defines the HAS_ISFINITE symbol, which
?S: indicates to the C program that the isfinite() routine is available.
?S:.
?C:HAS_ISFINITE:
?C: This symbol, if defined, indicates that the isfinite routine is
?C: available to check whether a double is finite (non-infinity non-NaN).
?C:.
?LINT:set d_isfinite
?H:#$d_isfinite HAS_ISFINITE  /**/
?H:.
: check for isfinite
echo "Checking to see if you have isfinite..." >&4
$cat >try.c <<EOCP
#include <math.h>
int main() { return isfinite(0.0); }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have isfinite."
else
 val="$undef"
 echo
 "You do not have isfinite."
fi
$rm_try
set d_isfinite
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_isfinite.U
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```
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```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/lib/errnolist.mk
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/makegloss

* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/files/fixcpp
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/bindex
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: lns.U,v 3.0.1.1 1994/06/20 07:05:52 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: lns.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  07:05:52  ram
?RCS: patch30: created by ADO
?RCS:
?X:
?X: This unit checks whether symbolic links are really supported.
?X: We can't rely on d_symlink because that may be listed in the
?X: C library but unimplemented.
?X:
?MAKE:lns: ln rm touch
?MAKE: -pick add $@ %<
?S:lns:
?S: This variable holds the name of the command to make
?S: symbolic
 links (if they are supported).  It can be used
?S: in the Makefile. It is either 'ln -s' or 'ln'
?S:.
: determine whether symbolic links are supported
echo " "
$touch blurfl
if $ln -s blurfl sym > /dev/null 2>&1 ; then
 echo "Symbolic links are supported." >&4
 lns="$ln -s"
else
 echo "Symbolic links are NOT supported." >&4
 lns="$ln"
fi
$rm -f blurfl sym
```

Found in path(s):

* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/lns.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:gccversion gccosandvers gccansipedantic: cat cpp rm +cc \
 Myread Guess Options Oldconfig Loc osname osvers run
?MAKE: -pick add $@ %<
?S:gccversion:
?S: If GNU cc (gcc) is used, this variable holds '1' or '2' to
?S: indicate whether the compiler is version 1 or 2.  This is used in
?S: setting some of the default cflags.  It is set to '' if not gcc.
?S:.
?S:gccosandvers:
?S: If GNU cc (gcc) is used, this variable holds the operating system
?S: and version used to compile gcc.  It is set to '' if not gcc,
?S: or if
 nothing useful can be parsed as the os version.
?S:.
?S:gccansipedantic:
?S: If GNU cc (gcc) is used, this variable will enable (if set) the
?S: -ansi and -pedantic ccflags for building core files (through
?S: cflags script). (See Porting/pumpkin.pod for full description).
?S:.
?D:gccversion=''
?D:gccansipedantic=''
?T:c99_for
?T:flag
?T:gccshortvers
?T:incdir
?T:warn
?F:!try
?LINT:change cpp
?LINT:extern ccflags
?LINT:extern ldflags
?LINT:extern locincpth
?LINT:extern ccname
?LINT:change ccname
?LINT:change locincpth
```

```
?LINT:change ccflags
?LINT:set gccansipedantic
?X: Check if they have gcc in any guise.
: Check if we are using GNU gcc and what its version is
echo " "
echo "Checking for GNU cc in disguise and/or its version number..." >&4
$cat >try.c <<EOM
#include <stdio.h>
int main() {
#if defined(__GNUC__) && !defined(__INTEL_COMPILER)
#ifdef __VERSION__
 printf("%s\n", __VERSION__);
#else
 printf("%s\n", "1");
#endif
#endif
 return(0);
}
EOM
if $cc -o try $ccflags $ldflags try.c; then
 gccversion=`$run
 ./try`
 case "$gccversion" in
 ") echo "You are not using GNU cc." ;;
 *)  echo "You are using GNU cc $gccversion."
     ccname=gcc
     ;;
 esac
else
 echo " "
 echo "*** WHOA THERE!!! ***" >&4
 echo "    Your C compiler \"$cc\" doesn't seem to be working!" >&4
?X: using -K will prevent aborting--maybe they're cross compiling?
 case "$knowitall" in
 ")
 echo "    You'd better start hunting for one and let me know about it." >&4
  exit 1
  ;;
 esac
fi
$rm -f try try.*
case "$gccversion" in
1.*) cpp=`./loc gcc-cpp $cpp $pth` ;;
esac
case "$gccversion" in
") gccosandvers=" ;;
*) gccshortvers=`echo "$gccversion"|sed 's/ .*//'`
  gccosandvers=`$cc -v 2>&1|grep '/specs$'|sed "s!.*/[^-/]*-[^-/]*-\([^-/]*\)/$gccshortvers/specs!\1!"`
```

```
  gccshortvers="
  case "$gccosandvers" in
  $osname) gccosandvers=" ;; # linux gccs seem to have no linux osvers, grr
  $osname$osvers) ;; # looking good
  $osname*) cat <<EOM >&4

*** WHOA THERE!!! ***

   Your gcc has not been
 compiled for the exact release of
   your operating system ($gccosandvers versus $osname$osvers).

   In general it is a good idea to keep gcc synchronized with
   the operating system because otherwise serious problems
   may ensue when trying to compile software, like Perl.

   I'm trying to be optimistic here, though, and will continue.
   If later during the configuration and build icky compilation
   problems appear (headerfile conflicts being the most common
   manifestation), I suggest reinstalling the gcc to match
   your operating system release.

EOM
     ;;
  *) gccosandvers=" ;; # failed to parse, better be silent
  esac
  ;;
esac
case "$ccname" in
") ccname="$cc" ;;
esac

# gcc 3.* complain about adding -Idirectories that they already know about,
# so we will take those off from locincpth.
case "$gccversion" in
3.*)
   echo "main(){}">try.c
   for incdir in $locincpth; do
      warn=`$cc $ccflags -I$incdir -c try.c 2>&1 | \
      grep '^c[cp]p*[01]: warning:
 changing search order '`
      if test "X$warn" != X; then
    locincpth=`echo " $locincpth " | sed "s! $incdir ! !"`
      fi
   done
   $rm -f try try.*
esac
```

```
# gcc 4.9 by default does some optimizations that break perl.
# see ticket 121505.
#
# The -fwrapv disables those optimizations (and probably others,) so
# for gcc 4.9 (and later, since the optimizations probably won't go
# away), add -fwrapv unless the user requests -fno-wrapv, which
# disables -fwrapv, or if the user requests -fsanitize=undefined,
# which turns the overflows -fwrapv ignores into runtime errors.
case "$gccversion" in
4.[3-9].*|4.[1-9][0-9]*|[5-9].*|[1-9][0-9]*)
   case "$ccflags" in
   *-fno-wrapv*|*-fsanitize=undefined*|*-fwrapv*) ;;
   *) ccflags="$ccflags -fwrapv" ;;
   esac
esac

# Really old versions of gcc default to C89 and will error for this code.
# See if the compiler (gcc or otherwise) needs a flag to compile C99 code
# Initialisations in for loops seem to be the particular problem
# (Does
 this syntax conflict with something else that was valid C89?)
# We also add a declaration after a statement to detect whether the compiler
# (or the user supplied -Accflags) consider such declarations to be errors.
# This causes 'Configure with -Accflags="-Werror=declaration-after-statement"'
# to fail hard and early.
#
# Annoyingly -std=c99 will cause gcc to tell glibc not to define prototypes for
# syscall, drand48 etc when including <unistd.h>, which messes up our build.
# I guess we *could* loop round trying -std=c99 first with checks both for the
# prototype found and the code compiling (because -std=gnu99 might do other
# things we don't want, particularly on non-GCC compilers) but
# 1) We would need to check for the prototype first (without any flags)
# 2) We would still end up with most Linux systems either being -std=gnu99
#    or "" (no flag), and so both common options would not rigorously check our
#    portability to other platforms.
# So it doesn't seem worth the complexity
 and chance of different failure.
$cat >try.c <<'EOCP'
int main(int argc, char **argv) {
   argc = argc + 1;
   /* This is deliberately a declaration after a statement. */
   unsigned long long count = 0;
   for (char **p = argv; *p; ++p) {
       ++count;
   }
   return count == 1 ? 0 : argc;
}
EOCP
```

```
c99_for=no
for flag in " '-std=gnu99' '-std=c99'; do
   if $cc -o try $flag $ccflags $ldflags try.c 2>/dev/null && ./try; then
       c99_for="$flag"
       break;
   fi
done
case "$c99_for" in
") echo "Your C compiler doesn't need any special flags to compile C99 code"
   ;;
no) echo >&4 "Your C compiler doesn't seem to be able to compile C99 code"
   rp='Do you really want to continue?'
   dflt='n'
   . ./myread
   case "$ans" in
 [yY]) echo >&4 "Okay, continuing." ;;
 *) exit 1    ;;
   esac
   ;;
*)  echo "Your C compiler needs $c99_for to compile C99 code"
   ccflags="$c99_for $ccflags"
   ;;
esac
$rm -f try try.*
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/gccvers.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysun.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysun.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit looks wether <sys/un.h> is available or not
?X:
?MAKE:i_sysun: Inhdr
```

```
?MAKE: -pick add $@ %<
?S:i_sysun:
?S: This variable conditionally defines I_SYS_UN, which indicates
?S: to the C program that it should include <sys/un.h> to get UNIX
?S: domain socket definitions.
?S:.
?C:I_SYS_UN:
?C: This symbol, if defined, indicates
 to the C program that it should
?C: include <sys/un.h> to get UNIX domain socket definitions.
?C:.
?H:#$i_sysun I_SYS_UN  /**/
?H:.
?LINT:set i_sysun
: see if this is a sys/un.h system
set sys/un.h i_sysun
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sysun.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Guess.U,v 3.0.1.5 1995/07/25 13:37:14 ram Exp $
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Guess.U,v $
?RCS: Revision 3.0.1.5  1995/07/25  13:37:14  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  15:53:55  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: call ./xenix explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.3  1993/12/15  08:14:35  ram
?RCS: patch15: variable d_bsd was not always set properly
?RCS:
?RCS: Revision 3.0.1.2  1993/08/30  08:57:14  ram
?RCS:
 patch8: fixed comment which wrongly attributed the usrinc symbol
?RCS: patch8: no more ugly messages when no /usr/include/ctype.h
```

```
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:37:37  ram
?RCS: patch7: added support for OSF/1 machines
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit hazards some guesses as to what the general nature of the system
?X: is.  The information it collects here is used primarily to establish default
?X: answers to other questions.
?X:
?MAKE:Guess d_eunice d_xenix d_bsd: cat test echo n c contains \
 rm Loc eunicefix tr sysroot
?MAKE: -pick add $@ %<
?S:d_eunice:
?S: This variable conditionally defines the symbols EUNICE and VAX, which
?S: alerts the C program that it must deal with idiosyncrasies of VMS.
?S:.
?S:d_xenix:
?S: This variable conditionally defines the symbol XENIX, which alerts
?S: the C program that it runs under Xenix.
?S:.
?S:d_bsd:
?S: This symbol conditionally defines the
 symbol BSD when running on a
?S: BSD system.
?S:.
?C:EUNICE:
?C: This symbol, if defined, indicates that the program is being compiled
?C: under the EUNICE package under VMS.  The program will need to handle
?C: things like files that don't go away the first time you unlink them,
?C: due to version numbering.  It will also need to compensate for lack
?C: of a respectable link() command.
?C:.
?X: Should we define VMS here?  Is Eunice actually used anymore?
?X:?C:VMS:
?X:?C: This symbol, if defined, indicates that the program is running under
?X:?C: VMS.  It is currently only set in conjunction with the EUNICE symbol.
?X:?C:.
?C:XENIX:
?C: This symbol, if defined, indicates that the program is running under
?C: Xenix (at least 3.0 ?).
?C:.
?X:  We don't use BSD in the perl source.  It's too vague, and already
?X:  defined in some header files anyway (e.g. NetBSD).  This just gives
?X:  us a spurious redefinition error upon compilation.
?X: --Andy Dougherty  Feb 11, 1998
```

```
?X: ?C:BSD:
?X:
 ?C: This symbol, if defined, indicates that the program is running under
?X: ?C: a BSD system.
?X: ?C:.
?H:#$d_eunice EUNICE  /**/
?X:?H:#$d_eunice VMS  /**/
?H:#$d_xenix XENIX  /**/
?X: ?H:#$d_bsd BSD  /**/
?H:.
?F:./bsd ./usg ./v7 ./osf1 ./eunice ./xenix ./venix ./os2
?T:xxx
: make some quick guesses about what we are up against
echo " "
$echo $n "Hmm...  $c"
echo exit 1 >bsd
echo exit 1 >usg
echo exit 1 >v7
echo exit 1 >osf1
echo exit 1 >eunice
echo exit 1 >xenix
echo exit 1 >venix
echo exit 1 >os2
d_bsd="$undef"
?X:
?X: Do not use 'usrinc', or we get a circular dependency. because
?X: usrinc is defined in usrinc.U, which relies on us...
?X:
$cat $sysroot/usr/include/signal.h $sysroot/usr/include/sys/signal.h >foo 2>/dev/null
if test -f /osf_boot || $contains 'OSF/1' $sysroot/usr/include/ctype.h >/dev/null 2>&1
then
 echo "Looks kind of like an OSF/1 system, but we'll see..."
 echo exit 0 >osf1
elif test `echo abc | $tr a-z A-Z` = Abc ; then
 xxx=`./loc addbib blurfl $pth`
 if $test
 -f $xxx; then
 echo "Looks kind of like a USG system with BSD features, but we'll see..."
  echo exit 0 >bsd
  echo exit 0 >usg
 else
  if $contains SIGTSTP foo >/dev/null 2>&1 ; then
   echo "Looks kind of like an extended USG system, but we'll see..."
  else
   echo "Looks kind of like a USG system, but we'll see..."
  fi
  echo exit 0 >usg
 fi
```

```
elif $contains SIGTSTP foo >/dev/null 2>&1 ; then
 echo "Looks kind of like a BSD system, but we'll see..."
 d_bsd="$define"
 echo exit 0 >bsd
else
 echo "Looks kind of like a Version 7 system, but we'll see..."
 echo exit 0 >v7
fi
case "$eunicefix" in
*unixtovms*)
 $cat <<'EOI'
There is, however, a strange, musty smell in the air that reminds me of
something...hmm...yes...I've got it...there's a VMS nearby, or I'm a Blit.
EOI
 echo exit 0 >eunice
 d_eunice="$define"
: it so happens the Eunice I know will not run shell scripts in Unix format
 ;;
*)
 echo " "
 echo "Congratulations.  You aren't running Eunice."
 d_eunice="$undef"
 ;;
esac
: Detect
 OS2.  The p_ variable is set above in the Head.U unit.
: Note that this also -- wrongly -- detects e.g. dos-djgpp, which also uses
: semicolon as a patch separator
case "$p_" in
:) ;;
*)
 $cat <<'EOI'
I have the feeling something is not exactly right, however...don't tell me...
lemme think...does HAL ring a bell?...no, of course, you're only running OS/2!
(Or you may be running DOS with DJGPP.)
EOI
 echo exit 0 >os2
 ;;
esac
if test -f /xenix; then
 echo "Actually, this looks more like a XENIX system..."
 echo exit 0 >xenix
 d_xenix="$define"
else
 echo " "
 echo "It's not Xenix..."
 d_xenix="$undef"
fi
```

```
chmod +x xenix
$eunicefix xenix
if test -f /venix; then
 echo "Actually, this looks more like a VENIX system..."
 echo exit 0 >venix
else
 echo " "
 if ./xenix; then
  : null
 else
  echo "Nor is it Venix..."
 fi
fi
chmod +x bsd usg v7 osf1 eunice xenix venix os2
$eunicefix bsd usg v7 osf1 eunice xenix venix os2
$rm -f foo
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Guess.U
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```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_unsetenv: Inlibc
?MAKE: -pick add $@ %<
?S:d_unsetenv:
?S: This variable conditionally defines the HAS_UNSETENV symbol, which
?S: indicates to the C program that the unsetenv () routine is available.
?S:.
?C:HAS_UNSETENV:
?C: This symbol, if defined, indicates that the unsetenv () routine is
?C: available for use.
?C:.
?H:#$d_unsetenv HAS_UNSETENV  /**/
?H:.
?LINT:set d_unsetenv
: see if unsetenv exists
set unsetenv d_unsetenv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/perl/d_unsetenv.U
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: alignbytes.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:02:28  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:25:20  ram
?RCS: patch23: avoid ALIGNBYTES, since it conflicts on NetBSD
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:23  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:alignbytes: Assert Myread Trylink cat i_inttypes i_limits i_math
?MAKE: -pick add $@ %<
?S:alignbytes:
?S: This variable holds the number of bytes required
 to align an
?S: arbitrary standard type. Usual values are 2, 4 and 8.
?S:.
?X: This used to be called ALIGNBYTES, but that conflicts with
?X: <machines/param.h> in NetBSD.
?C:MEM_ALIGNBYTES (ALIGNBYTES):
?C: This symbol contains the number of bytes required to align a
?C: double. Usual values are 2, 4 and 8.
?C:.
?H:#define MEM_ALIGNBYTES $alignbytes /**/
?H:.
?T:alignment result
: check for alignment requirements
echo " "
case "$alignbytes" in
")
 echo "Checking alignment constraints..." >&4

 for alignment in 8 4 2 1 16 32 error
 do
  $cat >try.c <<EOCP
```

```
#$i_inttypes I_INTTYPES
#ifdef I_INTTYPES
#include <inttypes.h>
#endif
#$i_limits I_LIMITS
#ifdef I_LIMITS
#include <limits.h>
#endif
#$i_math I_MATH
#ifdef I_MATH
#include <math.h>
#endif

union u {
 void *void_ptr;
 void (*func_ptr)(void);
 char c;
 short s;
 int i;
 long l;
 float f;
 double d;
#ifdef LLONG_MAX
 long long ll;
#else
#warning "LLONG_MAX undefined"
#endif
#if defined(HUGE_VALL)
 long double ld;
#else
#warning
 "HUGE_VALL undefined"
#endif
#ifdef UINT32_MAX
 uint32_t u32;
#else
#warning "UINT32_MAX undefined"
#endif
#ifdef UINT16_MAX
 uint16_t u16;
#else
#warning "UINT32_MAX undefined"
#endif
#ifdef UINT64_MAX
 uint64_t u64;
#else
#warning "UINT64_MAX undefined"
#endif
```

```
#ifdef UINTMAX_MAX
 uintmax_t m;
#else
#warning "UINTMAX_MAX undefined"
#endif
#ifdef UINTPTR_MAX
 uintptr_t up;
#else
#warning "UINTPTR_MAX undefined"
#endif
};

struct s {
 char a;
 union u b;
};

#include "static_assert.h"

int
main(void)
{
 STATIC_ASSERT($alignment == ((sizeof (struct s) - (sizeof (union u)))));
 return 0;
}
EOCP

  result="
  set result
  eval $trylink
  case "$result" in
  "$define") break;;
  esac
 done

 case "$alignment" in
 error) dflt='8'
  echo "(I can't seem to compile the test program...)" >&4
  ;;
 *) dflt=$alignment
  ;;
 esac
;;
*) dflt="$alignbytes"
 ;;
esac
rp="What is the maximum alignment in bytes required for a standard type?"
. ./myread
```

```
alignbytes="$ans"
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/alignbytes.U
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_faststdio: Setvar \
 d_stdstdio d_stdio_ptr_lval d_stdio_cnt_lval d_stdio_ptr_lval_sets_cnt
?MAKE: -pick add $@ %<
?S:d_faststdio:
?S: This variable conditionally defines the HAS_FAST_STDIO symbol,
?S: which indicates to the C program that the "fast stdio" is available
?S: to manipulate the stdio buffers directly.
?S:.
?C:HAS_FAST_STDIO:
?C: This symbol, if defined, indicates that the "fast stdio"
?C: is available to manipulate the stdio buffers directly.
?C:.
?H:#$d_faststdio HAS_FAST_STDIO  /**/
?H:.
?LINT:set d_faststdio
: see if fast_stdio exists
val="$undef"
case "$d_stdstdio:$d_stdio_ptr_lval" in
"$define:$define")
 case "$d_stdio_cnt_lval$d_stdio_ptr_lval_sets_cnt" in
 *$define*)
  echo "You
 seem to have 'fast stdio' to directly manipulate the stdio buffers." >&4
  val="$define"
  ;;
 esac
 ;;
esac
set d_faststdio
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_faststdio.U

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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: gidtype.U,v $
?RCS: Revision 3.0.1.3  1994/08/29  16:21:44  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS: patch32: removed useless usage of Setvar (for now)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:21:07  ram
?RCS: patch27: added lint hint
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:01:51  ram
?RCS: patch23: protected gidtype setting via setvar (ADO)
?RCS: patch23: made Gid_t comment more explicit (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:11  ram
?RCS:
 Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:gidtype: Myread Typedef Findhdr
?MAKE: -pick add $@ %<
?S:gidtype:
?S: This variable defines Gid_t to be something like gid_t, int,
?S: ushort, or whatever type is used to declare the return type
?S: of getgid().  Typically, it is the type of group ids in the kernel.
?S:.
?C:Gid_t (GIDTYPE):
?C: This symbol holds the return type of getgid() and the type of
?C: argument to setrgid() and related functions.  Typically,
?C: it is the type of group ids in the kernel. It can be int, ushort,
?C: uid_t, etc... It may be necessary to include <sys/types.h> to get
?C: any typedef'ed information.
?C:.
?H:#define Gid_t $gidtype  /* Type for getgid(), etc... */
?H:.
?T:xxx
: see what type gids are declared as in the kernel
set gid_t gidtype xxx stdio.h sys/types.h
eval $typedef
```

```
case "$gidtype" in
xxx)
 xxx=`./findhdr sys/user.h`
 set `grep 'groups\[NGROUPS\];' "$xxx" 2>/dev/null` unsigned short
 case $1 in
 unsigned) dflt="$1 $2" ;;
 *) dflt="$1"
 ;;
 esac
 ;;
*) dflt="$gidtype";;
esac
echo " "
rp="What is the type for group ids returned by getgid()?"
. ./myread
gidtype="$ans"
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/gidtype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: fpostype.U,v $
?RCS: Revision 3.0.1.2  1994/08/29  16:20:52  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:59:59  ram
?RCS: patch30: created
?RCS:
?MAKE:fpostype: Myread Typedef
?MAKE: -pick add $@ %<
?S:fpostype:
?S: This variable defines Fpos_t to be something like fpost_t, long,
?S: uint, or whatever type is used to declare file positions in libc.
?S:.
?C:Fpos_t:
?C: This symbol holds the type used to declare file positions
```

```
 in libc.
?C: It can be fpos_t, long, uint, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Fpos_t $fpostype  /* File position type */
?H:.
: see what type file positions are declared as in the library
set fpos_t fpostype long stdio.h sys/types.h
eval $typedef
echo " "
dflt="$fpostype"
rp="What is the type for file position used by fsetpos()?"
. ./myread
fpostype="$ans"
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/fpostype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Extract.U,v 3.0.1.2 1997/02/28 14:58:52 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Extract.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  14:58:52  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:51:46  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which can be doted in order to extract
?X: .SH files with variable substitutions.
?X:
?X: When running
 Configure from a remote directory ($src is not '.'),
?X: then the files will be created in that directory, so beware!
?X:
```

```
?MAKE:Extract: src
?MAKE: -pick add $@ %<
?F:./extract
?T:PERL_CONFIG_SH dir file name create mkdir_p
: script used to extract .SH files with variable substitutions
cat >extract <<'EOS'
PERL_CONFIG_SH=true
echo "Doing variable substitutions on .SH files..."
if test -f MANIFEST; then
 set x `awk '{print $1}' < MANIFEST | grep '\.SH$'`
else
 echo "(Looking for .SH files under the source directory.)"
 set x `(cd "$src"; find . -name "*.SH" -print)`
fi
shift
case $# in
0) set x `(cd "$src"; echo *.SH)`; shift;;
esac
if test ! -f "$src/$1"; then
 shift
fi
?X: script to emulate mkdir -p
mkdir_p='
name=$1;
create="";
while test $name; do
 if test ! -d "$name"; then
  create="$name $create";
  name=`echo $name | sed -e "s|^[^/]*$||"`;
  name=`echo $name | sed -e "s|\(.*\)/.*|\1|"`;
 else
  name="";
 fi;
done;
for file in $create; do
 mkdir $file;
done
'
for file in $*;
 do
 case "$src" in
 ".")
  case "$file" in
  */*)
   dir=`expr X$file : 'X\(.*\)/'`
   file=`expr X$file : 'X.*/\(.*\)'`
   (cd "$dir" && . ./$file)
   ;;
```

```
  *)
   . ./$file
   ;;
  esac
  ;;
 *)
?X:
?X: When running Configure remotely ($src is not '.'), we cannot source
?X: the files directly, since that would wrongly cause the extraction
?X: where the source lie instead of withing the current directory. Therefore,
?X: we need to 'sh <file' then, which is okay since they will source the
?X: existing config.sh file. It's not possible to use:
?X:  ../src/Configure -S -O -Dsomething
?X: unfortunately since no new config.sh with the -Dsomething override
?X: will be created before running the .SH files. A minor buglet.
?X:
?X: Note that we must create the directory hierarchy ourselves if it does
?X: not exist already, and that is done through a shell emulation of the
?X: 'mkdir -p' command. We don't want to use the $installdir metaconfig
?X: symbol here since that would require too much to
 be configured for
?X: this simple extraction task that may happen quickly with 'Configure -S'.
?X:  -- RAM, 18/03/96
?X:
  case "$file" in
  */*)
   dir=`expr X$file : 'X\(.*\)/'`
   file=`expr X$file : 'X.*/\(.*\)'`
   (set x $dir; shift; eval $mkdir_p)
   sh <"$src/$dir/$file"
   ;;
  *)
   sh <"$src/$file"
   ;;
  esac
  ;;
 esac
done
if test -f "$src/config_h.SH"; then
 if test ! -f config.h; then
 : oops, they left it out of MANIFEST, probably, so do it anyway.
 . "$src/config_h.SH"
 fi
fi
EOS
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/modified/Extract.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endservent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_endservent_r endservent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_endservent_r:
?S: This variable conditionally defines the HAS_ENDSERVENT_R symbol,
?S: which indicates to the C program that the endservent_r()
?S: routine is available.
?S:.
?S:endservent_r_proto:
?S: This variable encodes the prototype of endservent_r.
?S: It is zero if d_endservent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endservent_r
?S: is defined.
?S:.
?C:HAS_ENDSERVENT_R:
?C: This symbol, if defined, indicates that the endservent_r routine
?C: is
 available to endservent re-entrantly.
?C:.
?C:ENDSERVENT_R_PROTO:
?C: This symbol encodes the prototype of endservent_r.
?C: It is zero if d_endservent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endservent_r
?C: is defined.
?C:.
?H:#$d_endservent_r HAS_ENDSERVENT_R /**/
?H:#define ENDSERVENT_R_PROTO $endservent_r_proto /**/
?H:.
?T:try hdrs d_endservent_r_proto
: see if endservent_r exists
set endservent_r d_endservent_r
eval $inlibc
case "$d_endservent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_endservent_r_proto:$usethreads" in
 ":define") d_endservent_r_proto=define
```

```
 set d_endservent_r_proto endservent_r $hdrs
 eval $hasproto ;;
*) ;;
esac
case "$d_endservent_r_proto" in
define)
case "$endservent_r_proto" in
"|0) try='int endservent_r(struct servent_data*);'
./protochk "$extern_C $try" $hdrs && endservent_r_proto=I_D ;;
esac
case "$endservent_r_proto" in
"|0) try='void endservent_r(struct
servent_data*);'
./protochk "$extern_C $try" $hdrs && endservent_r_proto=V_D ;;
esac
case "$endservent_r_proto" in
"|0) d_endservent_r=undef
 endservent_r_proto=0
 echo "Disabling endservent_r, cannot determine prototype." >&4 ;;
* ) case "$endservent_r_proto" in
 REENTRANT_PROTO*) ;;
 *) endservent_r_proto="REENTRANT_PROTO_$endservent_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "endservent_r has no prototype, not using it." >&4 ;;
 esac
 d_endservent_r=undef
 endservent_r_proto=0
 ;;
esac
;;
*) endservent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_endservent_r.U
No license file was found, but licenses were detected in source scan.

```
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```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?MAKE:gccversion gccosandvers: cat cpp rm +cc \
 Myread Guess Options Oldconfig Loc osname osvers grep run ccname
?MAKE: -pick add $@ %<
?S:gccversion:
?S: If GNU cc (gcc) is used, this variable holds '1' or '3' (for instance)
?S: to indicate whether the compiler is version 1 or 3.  This is used in
?S: setting some of the default cflags.  It is set to '' if not gcc.
?S:.
?S:gccosandvers:
?S: If GNU cc (gcc) is used, this variable the operating system and
?S: version
 used to compile the gcc.  It is set to '' if not gcc,
?S: or if nothing useful can be parsed as the os version.
?S:.
?T:gccshortvers incdir d
?F:!try.c !try
?LINT:extern locincpth ccflags ldflags
?LINT:change locincpth ccname cpp
: Check whether they have gcc in any guise.
echo " "
echo "Checking for GNU cc in disguise and/or its version number..." >&4
$cat >try.c <<EOM
#include <stdio.h>
int main() {
#ifdef __GNUC__
#ifdef __VERSION__
 printf("%s\n", __VERSION__);
#else
 printf("%s\n", "1");
#endif
#endif
 exit(0);
}
EOM
if $cc -o try $ccflags $ldflags try.c >/dev/null 2>&1; then
 gccversion=`$run ./try`
 case "$gccversion" in
 '') echo "You are not using GNU cc." ;;
 *)  echo "You are using GNU cc $gccversion."
     ccname=gcc
     ;;
```

```
 esac
else
 echo " "
 echo "*** WHOA THERE!!! ***" >&4
 echo "    Your C compiler \"$cc\" doesn't seem to be working!" >&4
?X: using -K will prevent aborting--maybe they're cross compiling?
 case "$knowitall" in
 ")
 echo "    You'd better
 start hunting for one and let me know about it." >&4
  exit 1
  ;;
 esac
fi
$rm -f try try.*
case "$gccversion" in
1*) cpp=`./loc gcc-cpp $cpp $pth` ;;
esac
case "$gccversion" in
") gccosandvers=" ;;
*) gccshortvers=`echo "$gccversion"|sed 's/ .*//'`
  gccosandvers=`$cc -v 2>&1 | \
 $grep '/specs$'|sed "s!.*/[^-/]*-[^-/]*-\([^-/]*\)/$gccshortvers/specs!\1!"`
  gccshortvers="
  case "$gccosandvers" in
  $osname) gccosandvers=" ;; # linux gccs seem to have no linux osvers, grr
  $osname$osvers) ;; # looking good
  $osname*) cat <<EOM >&4

*** WHOA THERE!!! ***

   Your gcc has not been compiled for the exact release of
   your operating system ($gccosandvers versus $osname$osvers).

   In general it is a good idea to keep gcc synchronized with
   the operating system because otherwise serious problems
   may ensue when trying to compile software, like Perl.

   I'm trying to be optimistic here, though, and will continue.
   If later during the configuration and build icky
 compilation
   problems appear (headerfile conflicts being the most common
   manifestation), I suggest reinstalling the gcc to match
   your operating system release.

EOM
     ;;
  *) gccosandvers=" ;; # failed to parse, better be silent
```

```
  esac
  ;;
esac
case "$ccname" in
") ccname="$cc" ;;
esac

: gcc 3.1 complains about adding -Idirectories that it already knows about,
: so we will take those off from locincpth.
case "$gccversion" in
3*)
   echo "main(){}">try.c
   for incdir in `$cc -v -c try.c 2>&1 | \
      sed '1,/^#include <\.\.\.>/d;/^End of search list/,$d;s/^ //'` ; do
      locincpth=`echo $locincpth | sed s!$incdir!!`
   done
   $rm -f try try.*
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/gccvers.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Nothing.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Nothing.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this file is to supply an empty target for the private
?X: Makefile built by metaconfig to order the units.
?X:
?MAKE:Nothing: Head
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Nothing.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strchr.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strchr.U,v $
?RCS: Revision 3.0.1.2  1993/10/16  13:49:20  ram
?RCS: patch12: added support for HAS_INDEX
?RCS: patch12: added magic for index() and rindex()
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:05:26  ram
?RCS: patch10: now only defines HAS_STRCHR, no macro remap of index (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:32  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strchr d_index: contains strings Setvar Myread Oldconfig
 Csym
?MAKE: -pick add $@ %<
?S:d_strchr:
?S: This variable conditionally defines HAS_STRCHR if strchr() and
?S: strrchr() are available for string searching.
?S:.
?S:d_index:
?S: This variable conditionally defines HAS_INDEX if index() and
?S: rindex() are available for string searching.
?S:.
?C:HAS_STRCHR:
?C: This symbol is defined to indicate that the strchr()/strrchr()
?C: functions are available for string searching. If not, try the
?C: index()/rindex() pair.
?C:.
?C:HAS_INDEX:
?C: This symbol is defined to indicate that the index()/rindex()
?C: functions are available for string searching.
?C:.
?H:#$d_strchr HAS_STRCHR /**/
?H:#$d_index HAS_INDEX /**/
?H:.
?M:index: HAS_INDEX
?M:#ifndef HAS_INDEX
```

```
?M:#ifndef index
?M:#define index strchr
?M:#endif
?M:#endif
?M:.
?M:rindex: HAS_INDEX
?M:#ifndef HAS_INDEX
?M:#ifndef rindex
?M:#define rindex strrchr
?M:#endif
?M:#endif
?M:.
?T:vali
?LINT:set d_strchr d_index
: index or strchr
echo " "
if set index val -f; eval $csym; $val; then
 if
 set strchr val -f d_strchr; eval $csym; $val; then
  if $contains strchr "$strings" >/dev/null 2>&1 ; then
?X: has index, strchr, and strchr in string header
   val="$define"
   vali="$undef"
   echo "strchr() found." >&4
  else
?X: has index, strchr, and no strchr in string header
   val="$undef"
   vali="$define"
   echo "index() found." >&4
  fi
 else
?X: has only index, no strchr, string header is a moot point
  val="$undef"
  vali="$define"
  echo "index() found." >&4
 fi
else
 if set strchr val -f d_strchr; eval $csym; $val; then
  val="$define"
  vali="$undef"
  echo "strchr() found." >&4
 else
  echo "No index() or strchr() found!" >&4
  val="$undef"
  vali="$undef"
 fi
fi
set d_strchr; eval $setvar
```

```
val="$vali"
set d_index; eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strchr.U
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```
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: archlib.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  15:23:38  ram
?RCS: patch61: skip existence checks for archlib
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:15:18  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/02/15  14:14:14  ram
?RCS: patch51: architecture name is now computed by a separate unit
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:32:22  ram
?RCS:
 patch49: archname is now systematically recomputed
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:02:36  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_archlib archlib archlibexp installarchlib: archname afs spackage \
 cat Getfile Loc Oldconfig prefixexp privlib test Prefixit Prefixup
?MAKE: -pick add $@ %<
?Y:TOP
?S:d_archlib:
?S: This variable conditionally defines ARCHLIB to hold the pathname
?S: of architecture-dependent library files for $package.  If
?S: $archlib is the same as $privlib, then this is set to undef.
?S:.
?S:archlib:
```

```
?S: This variable holds the name of the directory in which the user wants
?S: to put architecture-dependent public library files for $package.
?S: It is most often a local directory such as /usr/local/lib.
?S: Programs using this variable must be prepared to deal
?S: with filename expansion.
?S:.
?S:archlibexp:
?S: This variable is the same as the archlib variable, but is
?S: filename
 expanded at configuration time, for convenient use.
?S:.
?S:installarchlib:
?S: This variable is really the same as archlibexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?C:ARCHLIB:
?C: This variable, if defined, holds the name of the directory in
?C: which the user wants to put architecture-dependent public
?C: library files for $package.  It is most often a local directory
?C: such as /usr/local/lib.  Programs using this variable must be
?C: prepared to deal with filename expansion.  If ARCHLIB is the
?C: same as PRIVLIB, it is not defined, since presumably the
?C: program already searches PRIVLIB.
?C:.
?C:ARCHLIB_EXP:
?C: This symbol contains the ~name expanded version of ARCHLIB, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#$d_archlib ARCHLIB "$archlib"  /**/
?H:#$d_archlib ARCHLIB_EXP "$archlibexp"  /**/
?H:.
: determine where public architecture
 dependent libraries go
set archlib archlib
eval $prefixit
case "$archlib" in
")
 case "$privlib" in
 ")
  dflt=`./loc . "." $prefixexp/lib /usr/local/lib /usr/lib /lib`
  set dflt
  eval $prefixup
  ;;
 *)  dflt="$privlib/$archname";;
 esac
 ;;
*) dflt="$archlib";;
```

```
esac
cat <<EOM

$spackage contains architecture-dependent library files.  If you are
sharing libraries in a heterogeneous environment, you might store
these files in a separate location.  Otherwise, you can just include
them with the rest of the public library files.

EOM
fn=d+~
rp='Where do you want to put the public architecture-dependent libraries?'
. ./getfile
archlib="$ans"
archlibexp="$ansexp"

if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
private files reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installarchlib" in
 '') dflt=`echo $archlibexp | sed 's#^/afs/#/afs/.#'`;;
 *)
 dflt="$installarchlib";;
 esac
 fn=de~
 rp='Where will architecture-dependent library files be installed?'
 . ./getfile
 installarchlib="$ans"
else
 installarchlib="$archlibexp"
fi
if $test X"$archlib" = X"$privlib"; then
 d_archlib="$undef"
else
 d_archlib="$define"
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/archlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sh.U,v 3.0.1.1 1997/02/28 16:20:13 ram Exp $
?RCS:
```

```
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sh.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:20:13  ram
?RCS: patch61: created
?RCS:
?MAKE:sh targetsh: Head
?MAKE: -pick wipe $@ %<
?S:sh:
?S: This variable contains the full pathname of the shell used
?S: on this system to execute Bourne shell scripts.  Usually, this will be
?S: /bin/sh, though it's possible that some systems will have /bin/ksh,
?S: /bin/pdksh, /bin/ash, /bin/bash, or even something such as
?S: D:/bin/sh.exe.
?S: This
 unit comes before Options.U, so you can't set sh with a -D
?S: option, though you can override this (and startsh)
?S: with -O -Dsh=/bin/whatever -Dstartsh=whatever
?S:.
?S:targetsh:
?S: If cross-compiling, this variable contains the location of sh on the
?S: target system.
?S: If not, this will be the same as $sh.
?S:.
?C:SH_PATH:
?C: This symbol contains the full pathname to the shell used on this
?C: on this system to execute Bourne shell scripts.  Usually, this will be
?C: /bin/sh, though it's possible that some systems will have /bin/ksh,
?C: /bin/pdksh, /bin/ash, /bin/bash, or even something such as
?C: D:/bin/sh.exe.
?C:.
?H:#define SH_PATH "$targetsh"  /**/
?H:.
?T:xxx try pth p SYSTYPE
?LINT:extern maintloc maintname _exe
?X:
?X: Be quiet unless something unusual happens because this gets
?X: loaded up even before options are processed.
?X: Can't use ./loc because that depends on startsh, which, in turn
?X: depends on this unit.
?X:
```

```
: Find the basic shell for
 Bourne shell scripts
case "$sh" in
")
?X: SYSTYPE is for some older MIPS systems.
?X: I do not know if it is still needed.
 case "$SYSTYPE" in
 *bsd*|sys5*) xxx="/$SYSTYPE/bin/sh";;
 *) xxx='/bin/sh';;
 esac
 if test -f "$xxx"; then
  sh="$xxx"
 else
  : Build up a list and do a single loop so we can 'break' out.
  pth=`echo $PATH | sed -e "s/$p_/ /g"`
  for xxx in sh bash ksh pdksh ash; do
   for p in $pth; do
    try="$try ${p}/${xxx}"
   done
  done
  for xxx in $try; do
   if test -f "$xxx"; then
    sh="$xxx";
    break
   elif test "X$_exe" != X -a -f "$xxx$_exe"; then
    sh="$xxx";
    break
   elif test -f "$xxx.exe"; then
    sh="$xxx";
    break
   fi
  done
 fi
 ;;
esac

?X: fd 4 isn't open yet...
case "$sh" in
") cat >&2 <<EOM
$me:  Fatal Error:  I can't find a Bourne Shell anywhere.

Usually it's in /bin/sh.  How did you even get this far?
Please report this issue at <$maintloc>
and we'll try to straighten this all out.
EOM
 exit 1
 ;;
esac
```

```
: When cross-compiling we
 need to separate the sh-to-run-Configure-with from the sh-to-use-in-Perl
: default both to the same thing, cross-compilers can then set targetsh differently if they like
targetsh=$sh
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/sh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Inhdr.U 1 2006-08-24 12:32:52Z rmanfredi $
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Inhdr.U,v $
?RCS: Revision 3.0.1.2  1995/05/12  12:01:31  ram
?RCS: patch54: deleted tabs that caused some /bin/sh to core dump (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:55:01  ram
?RCS: patch36: call ./whoa explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit checks wether a set of header files exists or not.
?X: If the first header is not
 found, the function tries to locate
?X: the next header, and so on, until one is found or there is no
?X: more header in the list.
?X:
?X: To use it, say:
?X: set header i_header [ header2 i_header2 ... ]
?X: eval $inhdr
?X:
?MAKE:Inhdr: test Findhdr Whoa
?MAKE: -pick add $@ %<
?LINT:define inhdr
?V:inhdr
?S:inhdr:
?S: This shell variable is used internally by Configure to check
```

```
?S: wether a set of headers exist or not. A typical use is:
?S:  set header i_header [ header2 i_header2 ... ]
?S:  eval $inhdr
?S: That will print a message, saying wether header was found or not
?S: and set i_header* accordingly. If the first header is not found,
?S: we try the next one, until the list is empty or one is found.
?S:.
?T:xxx xxf var td xxnf tu yyy instead was cont
: define an alternate in-header-list? function
inhdr='echo " "; td=$define; tu=$undef; yyy=$@;
cont=true; xxf="echo \"<\$1> found.\" >&4";
case $# in 2) xxnf="echo \"<\$1> NOT found.\" >&4";;
*) xxnf="echo \"<\$1> NOT found, ...\" >&4";;
esac;
case
 $# in 4) instead=instead;; *) instead="at last";; esac;
while $test "$cont"; do
 xxx=`./findhdr $1`
 var=$2; eval "was=\$$2";
 if $test "$xxx" && $test -r "$xxx";
 then eval $xxf;
?X: Next line shifted left 1 tabstop to avoid sh core dump on MachTen 2.1.1.
 eval "case \"\$$var\" in $undef) . ./whoa; esac"; eval "$var=\$td";
  cont="";
 else eval $xxnf;
?X: Likewise, the next line has been shifted left 1 tabstop -- ADO, 08/03/95
 eval "case \"\$$var\" in $define) . ./whoa; esac"; eval "$var=\$tu"; fi;
 set $yyy; shift; shift; yyy=$@;
 case $# in 0) cont="";;
 2) xxf="echo \"but I found <\$1> $instead.\" >&4";
  xxnf="echo \"and I did not find <\$1> either.\" >&4";;
 *) xxf="echo \"but I found <\$1\> instead.\" >&4";
  xxnf="echo \"there is no <\$1>, ...\" >&4";;
 esac;
done;
?X: Remaining values are set to 'undef'
while $test "$yyy";
do set $yyy; var=$2; eval "was=\$$2";
 eval "case \"\$$var\" in $define) . ./whoa; esac"; eval "$var=\$tu";
 set $yyy; shift; shift; yyy=$@;
done'
```

Found
 in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Inhdr.U
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```
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS:
?MAKE:i_fenv: Inhdr
?MAKE: -pick add $@ %<
?S:i_fenv:
?S: This variable conditionally defines the I_FENV symbol, which
?S: indicates to the C program that <fenv.h> exists and should
?S: be included.
?S:.
?C:I_FENV:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <fenv.h> to get the floating point environment definitions.
?C:.
?H:#$i_fenv I_FENV  /**/
?H:.
?LINT:set i_fenv
: see if this is a fenv.h system
set fenv.h i_fenv
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_fenv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_dosuid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Tye McQueen <tye@metronet.com> added safe setuid script checks.
?RCS:
?RCS: $Log: d_dosuid.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:33:03  ram
?RCS: patch61: moved unit to TOP via a ?Y: layout directive
?RCS: patch61: tell them /dev/fd is not about floppy disks
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:12:08  ram
?RCS: patch36: added checks for secure setuid scripts (Tye McQueen)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:55  ram
?RCS: Baseline for
```

```
 dist 3.0 netwide release.
?RCS:
?MAKE:d_dosuid d_suidsafe: cat contains ls rm test Myread Setvar \
 Oldconfig Guess package hint patchlevel
?MAKE: -pick add $@ %<
?S:d_suidsafe:
?S: This variable conditionally defines SETUID_SCRIPTS_ARE_SECURE_NOW
?S: if setuid scripts can be secure.  This test looks in /dev/fd/.
?S:.
?S:d_dosuid:
?S: This variable conditionally defines the symbol DOSUID, which
?S: tells the C program that it should insert setuid emulation code
?S: on hosts which have setuid #! scripts disabled.
?S:.
?C:SETUID_SCRIPTS_ARE_SECURE_NOW:
?C: This symbol, if defined, indicates that the bug that prevents
?C: setuid scripts from being secure is not present in this kernel.
?C:.
?C:DOSUID:
?C: This symbol, if defined, indicates that the C program should
?C: check the script that it is executing for setuid/setgid bits, and
?C: attempt to emulate setuid/setgid on systems that have disabled
?C: setuid #! scripts because the kernel can't do it securely.
?C: It is up to the package
 designer to make sure that this emulation
?C: is done securely.  Among other things, it should do an fstat on
?C: the script it just opened to make sure it really is a setuid/setgid
?C: script, it should make sure the arguments passed correspond exactly
?C: to the argument on the #! line, and it should not trust any
?C: subprocesses to which it must pass the filename rather than the
?C: file descriptor of the script to be executed.
?C:.
?H:#$d_suidsafe SETUID_SCRIPTS_ARE_SECURE_NOW /**/
?H:#$d_dosuid DOSUID  /**/
?H:.
?Y:TOP
?F:!reflect
?LINT: set d_suidsafe
: see if setuid scripts can be secure
$cat <<EOM

Some kernels have a bug that prevents setuid #! scripts from being
secure.  Some sites have disabled setuid #! scripts because of this.

First let's decide if your kernel supports secure setuid #! scripts.
(If setuid #! scripts would be secure but have been disabled anyway,
don't say that they are secure if asked.)
```

```
EOM

val="$undef"
if $test -d /dev/fd; then
 echo "#!$ls" >reflect
 chmod
 +x,u+s reflect
 ./reflect >flect 2>&1
 if $contains "/dev/fd" flect >/dev/null; then
  echo "Congratulations, your kernel has secure setuid scripts!" >&4
  val="$define"
 else
  $cat <<EOM
If you are not sure if they are secure, I can check but I'll need a
username and password different from the one you are using right now.
If you don't have such a username or don't want me to test, simply
enter 'none'.

EOM
  rp='Other username to test security of setuid scripts with?'
  dflt='none'
  . ./myread
  case "$ans" in
  n|none)
   case "$d_suidsafe" in
   ") echo "I'll assume setuid scripts are *not* secure." >&4
    dflt=n;;
   "$undef")
    echo "Well, the $hint value is *not* secure." >&4
    dflt=n;;
   *) echo "Well, the $hint value *is* secure." >&4
    dflt=y;;
   esac
   ;;
  *)
   $rm -f reflect flect
   echo "#!$ls" >reflect
   chmod +x,u+s reflect
   echo >flect
   chmod a+w flect
   echo "'su" will (probably) prompt you for "'$ans's password."
   su $ans -c './reflect
 >flect'
   if $contains "/dev/fd" flect >/dev/null; then
    echo "Okay, it looks like setuid scripts are secure." >&4
    dflt=y
   else
    echo "I don't think setuid scripts are secure." >&4
```

```
   dflt=n
  fi
  ;;
 esac
 rp='Does your kernel have *secure* setuid scripts?'
 . ./myread
 case "$ans" in
 [yY]*) val="$define";;
 *) val="$undef";;
 esac
 fi
else
 echo "I don't think setuid scripts are secure (no /dev/fd directory)." >&4
 echo "(That's for file descriptors, not floppy disks.)"
 val="$undef"
fi
set d_suidsafe
eval $setvar

$rm -f reflect flect

: now see if they want to do setuid emulation
if $test $patchlevel -lt 11; then
echo " "
val="$undef"
case "$d_suidsafe" in
"$define")
 val="$undef"
 echo "No need to emulate SUID scripts since they are secure here." >&4
 ;;
*)
 $cat <<EOM
Some systems have disabled setuid scripts, especially systems where
setuid scripts cannot be secure.  On systems where setuid scripts have
been disabled, the setuid/setgid bits on scripts are
 currently
useless.  It is possible for $package to detect those bits and emulate
setuid/setgid in a secure fashion.  This emulation will only work if
setuid scripts have been disabled in your kernel.

EOM
 case "$d_dosuid" in
 "$define") dflt=y ;;
 *) dflt=n ;;
 esac
 rp="Do you want to do setuid/setgid emulation?"
 . ./myread
 case "$ans" in
```

```
 [yY]*) val="$define";;
 *) val="$undef";;
 esac
 ;;
esac
set d_dosuid
eval $setvar
else
   case "$d_dosuid" in
 "$define")
 cat >&4 <<EOH

SUID emulation has been removed for 5.12
Please re-run Configure without -Dd_dosuid

EOH
 exit 1;
 ;;
   esac
   d_dosuid=undef
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_dosuid.U
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```
?RCS: $Id: i_crypt.U,v $
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_crypt: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_crypt:
?S: This variable conditionally defines the I_CRYPT symbol, and indicates
?S: whether a C program should include <crypt.h>.
?S:.
?C:I_CRYPT:
?C: This symbol, if defined, indicates that <crypt.h> exists and
?C: should be included.
?C:.
?H:#$i_crypt I_CRYPT  /**/
?H:.
?LINT:set i_crypt
: see if this is a crypt.h system
```

```
set crypt.h i_crypt
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_crypt.U
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```
?RCS: $Id: i_vfork.U 1 2006-08-24 12:32:52Z rmanfredi $
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_vfork.U,v $
?RCS: Revision 3.0.1.1  1994/05/06  15:05:44  ram
?RCS: patch23: avoid inclusion of <vfork.h> if no vfork() used (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_vfork: Inhdr d_vfork
?MAKE: -pick add $@ %<
?S:i_vfork:
?S: This variable conditionally defines the I_VFORK symbol, and indicates
?S: whether a C program should include vfork.h.
?S:.
?C:I_VFORK:
?C: This symbol,
 if defined, indicates to the C program that it should
?C: include vfork.h.
?C:.
?H:#$i_vfork I_VFORK /**/
?H:.
: see if this is a vfork system
case "$d_vfork" in
"$define")
 set vfork.h i_vfork
 eval $inhdr
 ;;
*)
 i_vfork="$undef"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_vfork.U
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysmman.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:11:20  ram
?RCS: patch16: created
?RCS:
?X:
?X: Look wether <sys/mman.h> needs to be included.
?X:
?MAKE:i_sysmman: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysmman:
?S: This variable conditionally defines the I_SYS_MMAN symbol,
?S: and indicates whether a C program should include <sys/mman.h>.
?S:.
?C:I_SYS_MMAN:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/mman.h>.
?C:.
?H:#$i_sysmman I_SYS_MMAN  /**/
?H:.
?LINT:set
 i_sysmman
: see if sys/mman.h has to be included
set sys/mman.h i_sysmman
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sysmman.U
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```
?RCS: $Id: d_dup2.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_dup2.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_dup2: Inlibc
?MAKE: -pick add $@ %<
?S:d_dup2:
?S: This variable conditionally defines HAS_DUP2 if dup2() is
?S: available to duplicate file descriptors.
?S:.
?C:HAS_DUP2 (DUP2):
?C: This symbol, if defined, indicates that the dup2 routine is
?C: available to duplicate file descriptors.
?C:.
?H:#$d_dup2 HAS_DUP2 /**/
?H:.
?LINT:set d_dup2
:
 see if dup2 exists
set dup2 d_dup2
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_dup2.U
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```
?RCS: $Id: i_utime.U 1 2006-08-24 12:32:52Z rmanfredi $
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_utime.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:47  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?MAKE:i_utime: Inhdr
?MAKE: -pick add $@ %<
?S:i_utime:
?S: This variable conditionally defines the I_UTIME symbol, and indicates
?S: whether a C program should include <utime.h>.
?S:.
?C:I_UTIME:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <utime.h>.
?C:.
?H:#$i_utime I_UTIME  /**/
?H:.
?LINT:set i_utime
:
 see if this is an utime system
set utime.h i_utime
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_utime.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_memrchr: Inlibc Hasproto d_gnulibc
?MAKE: -pick add $@ %<
?S:d_memrchr:
?S: This variable conditionally defines the HAS_MEMRCHR symbol, which
?S: indicates to the C program that the memrchr() routine is available
?S: to return a pointer to the last occurrence of a byte in a memory
?S: area (or NULL if not found).
?S:.
?C:HAS_MEMRCHR:
?C: This symbol, if defined, indicates that the memrchr routine is
?C: available to return a pointer to the last occurrence of a byte in
?C: a memory area (or NULL if not found).
?C:.
?H:#$d_memrchr HAS_MEMRCHR  /**/
?H:.
?T:d_memrchr_proto xx1 xx2 xx3 xx4
?LINT:set d_memrchr
: see if memrchr exists
: We need both a prototype in string.h and the symbol in libc.
echo " "
d_memrchr_proto="
```

```
xx1="#$d_gnulibc HAS_GNULIBC"
xx2='#if defined(HAS_GNULIBC)
 && !defined(_GNU_SOURCE)'
xx3='#   define _GNU_SOURCE'
xx4='#endif'
set d_memrchr_proto memrchr literal "$xx1" literal "$xx2" literal "$xx3" literal "$xx4" define string.h
eval $hasproto
case "$d_memrchr_proto" in
   define) # see if memrchr exists
 set memrchr d_memrchr
 eval $inlibc
 ;;
   *)  val=$undef
 set d_memrchr
 eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_memrchr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_accessx: Inlibc
?MAKE: -pick add $@ %<
?S:d_accessx:
?S: This variable conditionally defines the HAS_ACCESSX symbol, which
?S: indicates to the C program that the accessx() routine is available.
?S:.
?C:HAS_ACCESSX :
?C: This symbol, if defined, indicates that the accessx routine is
?C: available to do extended access checks.
?C:.
?H:#$d_accessx HAS_ACCESSX  /**/
?H:.
?LINT:set d_accessx
: see if accessx exists
set accessx d_accessx
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/acl/d_accessx.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Configdir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Configdir.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  14:58:36  ram
?RCS: patch61: have README explicitly mention the package name
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:49  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:Configdir: package
?MAKE: -pick add $@ %<
: create .config dir to save info across Configure sessions
test -d ../.config || mkdir ../.config
cat >../.config/README <<EOF
This directory created by Configure to save
 information that should
persist across sessions for $package.

You may safely delete it if you wish.
EOF
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Configdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: libc.U,v $
?RCS: Revision 3.0.1.10  1997/02/28  15:56:48  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: added support for HPUX-10 nm output
?RCS:
?RCS: Revision 3.0.1.9  1995/07/25  14:11:56  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.8  1995/05/12  12:20:47  ram
?RCS: patch54: made sure only most recent version of shared lib is picked
?RCS: patch54: final "nm -p" check now uses xscan and xrun
 like everybody
?RCS: patch54: can now grok Linux nm output with lead __IO (ADO)
?RCS: patch54: added support for Linux ELF output, using 'W' for alias (ADO)
?RCS:
?RCS: Revision 3.0.1.7  1994/10/29  16:23:40  ram
?RCS: patch36: now looks for shared libraries before anything else (ADO)
?RCS: patch36: added new nm output format (ADO)
?RCS:
?RCS: Revision 3.0.1.6  1994/08/29  16:28:10  ram
?RCS: patch32: added I-type symbols for nm output parsing on Linux
?RCS:
?RCS: Revision 3.0.1.5  1994/06/20  07:03:24  ram
?RCS: patch30: checks are now presented by succession of if/elif
?RCS: patch30: uniformized checks for shared objects with new so symbol
?RCS:
?RCS: Revision 3.0.1.4  1994/05/06  15:06:33  ram
?RCS: patch23: added shared library knowledge (ADO and WED)
?RCS:
?RCS: Revision 3.0.1.3  1994/01/24  14:12:17  ram
?RCS: patch16: can now export nm_extract as an internal-use only variable
?RCS:
?RCS: Revision 3.0.1.2  1993/09/13  16:09:03  ram
?RCS: patch10: added special handling for Apollo
 systems (WAD)
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:40:03  ram
?RCS: patch7: added entry for /usr/shlib/libc.so (OSF/1 machines)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libc +nm_extract: echo n c rm test grep Getfile Myread Oldconfig Loc \
 sed libs incpath libpth ar runnm nm nm_opt nm_so_opt contains xlibpth \
 so _a _o osname trnl tr sort uniq sysroot
?MAKE: -pick add $@ %<
?S:libc:
?S: This variable contains the location of the C library.
```

```
?S:.
?S:nm_extract:
?S: This variable holds the name of the extraction command used to process
?S: the output of nm and yield the list of defined symbols. It is used
?S: internally by Configure.
?S:.
?T:thislib try libnames xxx xscan xrun thisname com tans file
?F:!libnames !libc.tmp !tmp.imp
?LINT:extern PASE
?LINT:extern libnames
?LINT:change nm_opt
?INIT:libnames=''
: Figure out where the libc is located
case "$runnm" in
true)
?X: indentation is wrong on purpose--RAM
:
 get list of predefined functions in a handy place
echo " "
case "$libc" in
'') libc=unknown
 case "$libs" in
 *-lc_s*) libc=`./loc libc_s$_a $libc $libpth`
 esac
 ;;
esac
case "$libs" in
'') ;;
*)  for thislib in $libs; do
 case "$thislib" in
 -lc|-lc_s)
  : Handle C library specially below.
  ;;
 -l*)
  thislib=`echo $thislib | $sed -e 's/^-l//'`
  if try=`./loc lib$thislib.$so.'*' X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib.$so X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib$_a X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc $thislib$_a X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc $thislib X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc Slib$thislib$_a X $xlibpth`; $test -f "$try"; then
```

```
  :
  else
   try=''
  fi
  libnames="$libnames $try"
  ;;
 *) libnames="$libnames $thislib" ;;
 esac
 done
 ;;
esac
?X:
?X: Some systems (e.g. DG/UX) use
 "environmental" links, which make the test
?X: -f fail. Ditto for symbolic links. So in order to reliably check the
?X: existence of a file, we use test -r. It will still fail with DG/UX links
?X: though, but at least it will detect symbolic links. At some strategic
?X: points, we make use of (test -h), using a sub-shell in case builtin test
?X: does not implement the -h check for symbolic links. This makes it
?X: possible to preset libc in a hint file for instance and have it show up
?X: as-is in the question.
?X:
xxx=normal
case "$libc" in
unknown)
?X:
?X: The sed below transforms .so.9 .so.12 into something like .so.0009 .so.0012,
?X: then sorts on it to allow keeping .so.12 instead of .so.9 as the latest
?X: up-to-date library. The initial filename (before sed munging, saved in hold
?X: space via 'h') is appended via 'G' before sorting, then the leading munged
?X: part is removed after sorting. Nice efficient work from Tye McQueen.
?X: The initial blurfl is here to prevent the trailing
 pipe from producing an
?X: empty string, causing Configure to output all its set variables!
?X:
 set /lib/libc.$so
 for xxx in $libpth; do
  $test -r $1 || set $xxx/libc.$so
  : The messy sed command sorts on library version numbers.
  $test -r $1 || \
   set `echo blurfl; echo $xxx/libc.$so.[0-9]* | \
   tr ' ' $trnl | egrep -v '\.[A-Za-z]*$' | $sed -e '
    h
    s/[0-9][0-9]*/0000&/g
    s/0*\([0-9][0-9][0-9][0-9][0-9]\)/\1/g
    G
    s/\n/ /' | \
    $sort | $sed -e 's/^.* //'`
```

```
  eval set \$$#
 done
 $test -r $1 || set $sysroot/usr/ccs/lib/libc.$so
 $test -r $1 || set $sysroot/lib/libsys_s$_a
 ;;
*)
?X: ensure the test below for the (shared) C library will fail
 set blurfl
 ;;
esac
if $test -r "$1"; then
 echo "Your (shared) C library seems to be in $1."
 libc="$1"
elif $test -r /lib/libc && $test -r /lib/clib; then
?X:
?X: Apollo has its C library in /lib/clib AND /lib/libc
?X: not to mention its math library in /lib/syslib...
?X:
 echo "Your C library seems to be in both /lib/clib
 and /lib/libc."
 xxx=apollo
 libc='/lib/clib /lib/libc'
 if $test -r /lib/syslib; then
  echo "(Your math library is in /lib/syslib.)"
?X: Put syslib in libc -- not quite right, but won't hurt
  libc="$libc /lib/syslib"
 fi
elif $test -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
 echo "Your C library seems to be in $libc, as you said before."
?X: For mips, and...
elif $test -r $incpath/usr/lib/libc$_a; then
 libc=$incpath/usr/lib/libc$_a;
 echo "Your C library seems to be in $libc.  That's fine."
elif $test -r /lib/libc$_a; then
 libc=/lib/libc$_a;
 echo "Your C library seems to be in $libc.  You're normal."
else
 if tans=`./loc libc$_a blurfl/dyick $libpth`; $test -r "$tans"; then
  :
 elif tans=`./loc libc blurfl/dyick $libpth`; $test -r "$tans"; then
  libnames="$libnames "`./loc clib blurfl/dyick $libpth`
 elif tans=`./loc clib blurfl/dyick $libpth`; $test -r "$tans"; then
  :
 elif tans=`./loc Slibc$_a blurfl/dyick $xlibpth`; $test -r "$tans"; then
  :
 elif tans=`./loc
 Mlibc$_a blurfl/dyick $xlibpth`; $test -r "$tans"; then
  :
```

```
 else
  tans=`./loc Llibc$_a blurfl/dyick $xlibpth`
 fi
 if $test -r "$tans"; then
  echo "Your C library seems to be in $tans, of all places."
  libc=$tans
 else
  libc='blurfl'
 fi
fi
if $test $xxx = apollo -o -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
 dflt="$libc"
 cat <<EOM

If the guess above is wrong (which it might be if you're using a strange
compiler, or your machine supports multiple models), you can override it here.

EOM
else
 dflt=''
 echo $libpth | $tr ' ' $trnl | $sort | $uniq > libpath
 cat >&4 <<EOM
I can't seem to find your C library.  I've looked in the following places:

EOM
 $sed 's/^/ /' libpath
 cat <<EOM

None of these seems to contain your C library. I need to get its name...

EOM
fi
fn=f
rp='Where is your C library?'
. ./getfile
libc="$ans"

echo " "
echo $libc $libnames | $tr ' ' $trnl | $sort | $uniq > libnames
set X `cat libnames`
shift
xxx=files
case $# in 1) xxx=file; esac
echo
 "Extracting names from the following $xxx for later perusal:" >&4
echo " "
$sed 's/^/ /' libnames >&4
echo " "
```

```
$echo $n "This may take a while...$c" >&4

?X:
?X: Linux may need the special Dynamic option to nm for shared libraries.
?X: In general, this is stored in the nm_so_opt variable.
?X: Unfortunately, that option may be fatal on non-shared libraries.
?X:
for file in $*; do
 case $file in
 *$so*) $nm $nm_so_opt $nm_opt $file 2>/dev/null;;
 *) $nm $nm_opt $file 2>/dev/null;;
 esac
done >libc.tmp

$echo $n ".$c"
?X:
?X: To accelerate processing, we look at the correct 'sed' command
?X: by using a small subset of libc.tmp, i.e. fprintf function.
?X: When we know which sed command to use, do the name extraction
?X:
$grep fprintf libc.tmp > libc.ptf
?X:
?X: In order to enhance readability and save some space, we define
?X: some variables that will be "eval"ed.
?X:
xscan='eval "<libc.ptf $com >libc.list"; $echo $n ".$c" >&4'
xrun='eval "<libc.tmp $com >libc.list"; echo "done." >&4'
?X:
 BSD-like output, I and W types added for Linux
?X: Some versions of Linux include a leading __IO in the symbol name.
?X: HP-UX 10 reportedly has trailing spaces, though I'm surprised it has
?X: BSD-like output.  (AD).
?X: GNU extension: i is "indirect function"
xxx='[ADTSIWi]'
if com="$sed -n -e 's/__IO//' -e 's/^.* $xxx  *//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: SYSV-like output
elif com="$sed -n -e 's/^__*//' -e 's/^\([a-zA-Z_0-9$]*\).*xtern.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e '/|UNDEF/d' -e '/FUNC..GL/s/^.*|__*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.* D __*//p' -e 's/^.* D //p'";\
```

```
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^_//' -e 's/^\([a-zA-Z_0-9]*\).*xtern.*text.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$'
 libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$grep '|' | $sed -n -e '/|COMMON/d' -e '/|DATA/d' \
    -e '/ file/d' -e 's/^\([^  ]*\).*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|//p' -e 's/^.*|FUNC |WEAK .*|//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: mips nm output (sysV)
elif com="$sed -n -e 's/^__//' -e '/|Undef/d' -e '/|Proc/s/ .*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|Proc .*|Text *| *//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e '/Def. Text/s/.* \([^ ]*\)\$/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: OS/2
 nm output
elif com="$sed -n -e 's/^[-0-9a-f ]*_\(.*\)=.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/.*\.text n\ \ \ \.//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: AIX nm output
elif com="sed -n -e 's/^__.*//' -e 's/[       ]*D[    ]*[0-9]*.*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
```

```
  eval $xrun
else
 $nm -p $* 2>/dev/null >libc.tmp
 $grep fprintf libc.tmp > libc.ptf
 if com="$sed -n -e 's/^.* [ADTSIW]  *_[_.]*//p' -e 's/^.* [ADTSIW] //p'";\
  eval $xscan; $contains '^fprintf$' libc.list >/dev/null 2>&1
 then
  nm_opt='-p'
  eval $xrun
 else
  echo " "
  echo "$nm didn't seem to work right. Trying $ar instead..." >&4
  com="
  if $ar t $libc > libc.tmp && \
   $contains '^fprintf$' libc.tmp >/dev/null 2>&1
  then
   for thisname in $libnames $libc; do
    $ar t $thisname >>libc.tmp
   done
   $sed -e "s/\\$_o\$//" < libc.tmp > libc.list
   echo
 "Ok." >&4
  elif test "X$osname" = "Xos2" && $ar tv $libc > libc.tmp; then
?X: Repeat libc to extract forwarders to DLL entries too
   for thisname in $libnames $libc; do
    $ar tv $thisname >>libc.tmp
?X: Revision 50 of EMX has bug in ar: it will not extract forwarders
?X: to DLL entries.  Use emximp which will extract exactly them.
    emximp -o tmp.imp $thisname \
        2>/dev/null && \
        $sed -e 's/^\([_a-zA-Z0-9]*\) .*$/\1/p' \
        < tmp.imp >>libc.tmp
    $rm -f tmp.imp
   done
   $sed -e "s/\\$_o\$//" -e 's/^ \+//' < libc.tmp > libc.list
   echo "Ok." >&4
  else
   echo "$ar didn't seem to work right." >&4
   echo "Maybe this is a Cray...trying bld instead..." >&4
   if  bld t $libc | \
    $sed -e 's/.*\///' -e "s/\\$_o:.*\$//" > libc.list &&
    $test -s libc.list
   then
    for thisname in $libnames; do
     bld t $libnames | \
     $sed -e 's/.*\///' -e "s/\\$_o:.*\$//" >>libc.list
     $ar t $thisname >>libc.tmp
    done
```

```
    echo "Ok." >&4
   else
    echo
 "That didn't work either.  Giving up." >&4
    exit 1
   fi
  fi
 fi
fi
nm_extract="$com"
case "$PASE" in
define)
   echo " "
   echo "Since you are compiling for PASE, extracting more symbols from libc.a ..."">&4
   dump -Tv /lib/libc.a | awk '$7 == "/unix" {print $5 " " $8}' | grep "^SV" | awk '{print $2}' >> libc.list
   ;;
*)  if $test -f /lib/syscalls.exp; then
 echo " "
 echo "Also extracting names from /lib/syscalls.exp for good ole AIX..." >&4
 $sed -n 's/^\([^  ]*\)[  ]*syscall[0-9]*[  ]*$/\1/p' \
  /lib/syscalls.exp >>libc.list
   fi
   ;;
esac
;;
esac
$rm -f libnames libpath
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/libc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_normsig.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_normsig.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:37:03  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:14:48  ram
```

```
?RCS: patch36: call ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_normsig jobslib: test Setvar Guess _a
?MAKE: -pick add $@ %<
?S:d_normsig:
?S: This variable conditionally
 defines the NORMSIG symbol, which
?S: indicates to the C program that the normal signal handling routines
?S: should be used, as opposed to the ones in 4.1bsd (sigset, etc.).
?S:.
?S:jobslib:
?S: This variable holds the argument to be passed to the loader to include
?S: the strange signal handling routines from 4.1bsd.  On systems that
?S: have NORMSIG defined this variable is null.
?S:.
?C:NORMSIG:
?C: This symbol, if defined, indicates that normal signal handling routines
?C: should be used, as opposed to the ones in 4.1bsd (sigset, etc.).
?C:.
?H:#$d_normsig NORMSIG  /**/
?H:.
?LINT:set d_normsig
: see if we need -ljobs and if we have sigset, etc.
echo " "
if $test -r /usr/lib/libjobs$_a || $test -r /usr/local/lib/libjobs$_a ; then
 echo "Jobs library found." >&4
 val="$undef"
 jobslib='-ljobs'
else
 if ./bsd; then
  echo "No jobs library found. (I suppose this is at least 4.2...)" >&4
 else
  echo "No jobs library found. (That's okay, we all have our faults.)" >&4
 fi
 val="$define"
 jobslib=''
fi
set
 d_normsig
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_normsig.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_scalbnl: Inlibc
?MAKE: -pick add $@ %<
?S:d_scalbnl:
?S: This variable conditionally defines the HAS_SCALBNL symbol, which
?S: indicates to the C program that the scalbnl() routine is available.
?S: If ilogbl is also present we can emulate frexpl.
?S:.
?C:HAS_SCALBNL:
?C: This symbol, if defined, indicates that the scalbnl routine is
?C: available.  If ilogbl is also present we can emulate frexpl.
?C:.
?H:#$d_scalbnl HAS_SCALBNL  /**/
?H:.
?LINT:set d_scalbnl
: see if scalbnl exists
set scalbnl d_scalbnl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_scalbnl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_munmap.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_munmap.U,v $
?RCS: Revision 3.0.1.1  1993/12/15  08:19:22  ram
?RCS: patch15: created
?RCS:
?MAKE:d_munmap: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_munmap:
?S: This variable conditionally defines HAS_MUNMAP if munmap() is
?S: available to unmap a region mapped by mmap().
?S:.
?C:HAS_MUNMAP:
?C: This symbol, if defined, indicates that the munmap system call is
?C: available to unmap a region, usually mapped by mmap().
?C:.
?H:#$d_munmap HAS_MUNMAP  /**/
?H:.
?LINT:set
 d_munmap
: see if munmap exists
set munmap d_munmap
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_munmap.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: End.U,v 3.0 1993/08/18 12:04:51 ram Exp $
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: End.U,v $
?RCS: Revision 3.0  1993/08/18  12:04:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit serves as the goal which forces make to choose all the units that
?X: ask questions.  The $W on the ?MAKE: line is the list of all symbols wanted.
?X: To force any unit to be included, copy this unit to your private U directory
?X: and add the name of the unit desired to the ?MAKE: dependency line.
?X:
?MAKE:End perllibs: $W cppstdin gzip zip
 libs usedl osname osvers
?MAKE: -pick add $@ %<
?S:perllibs:
?S: The list of libraries needed by Perl only (any libraries needed
?S: by extensions only will by dropped, if using dynamic loading).
?S:.
```

```
?INIT:perllibs="
?LINT:use $W
?LINT:use gzip zip
?LINT:change cppstdin
: Remove libraries needed only for extensions
: The appropriate ext/Foo/Makefile.PL will add them back in, if necessary.
: The exception is SunOS 4.x, which needs them.
case "${osname}X${osvers}" in
sunos*X4*)
   perllibs="$libs"
   ;;
*) case "$usedl" in
   $define|true|[yY]*)
     set X `echo " $libs " | sed -e 's@ -lndbm @ @' -e 's@ -lgdbm @ @' -e 's@ -lgdbm_compat @ @' -e 's@ -ldbm @
@' -e 's@ -ldb @ @'`
     shift
     perllibs="$*"
     ;;
   *) perllibs="$libs"
     ;;
   esac
   ;;
esac

?X: If the user has the cppstdin wrapper, perl.c will try to call
?X: CPPSTDIN, but that will point to a location in the build
?X: directory, not the installed version!.  Here, we'll just strip the
?X: name down to 'cppstdin',
 and rely on the fact that perl.c will
?X: then call SCRIPTDIR/cppstdin, but local things like 'make depend'
?X: will continue to work.
: Remove build directory name from cppstdin so it can be used from
: either the present location or the final installed location.
echo " "
: Get out of the UU directory to get correct path name.
cd ..
case "$cppstdin" in
`pwd`/cppstdin)
 echo "Stripping down cppstdin path name"
 cppstdin=cppstdin
 ;;
esac
cd UU

: end of configuration questions
echo " "
echo "End of configuration questions."
echo " "
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/End.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fdim: Inlibc
?MAKE: -pick add $@ %<
?S:d_fdim:
?S: This variable conditionally defines the HAS_FDIM symbol, which
?S: indicates to the C program that the fdim() routine is available.
?S:.
?C:HAS_FDIM:
?C: This symbol, if defined, indicates that the fdim routine is
?C: available to do the positive difference function.
?C:.
?H:#$d_fdim HAS_FDIM  /**/
?H:.
?LINT:set d_fdim
: see if fdim exists
set fdim d_fdim
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fdim.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_eofpipe.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:12:40  ram
?RCS: patch36: call ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:d_eofpipe: cat +cc +ccflags +libs rm Oldconfig Guess echo n c
?MAKE: -pick add $@ %<
?S:d_eofpipe:
?S: This variable conditionally defines the EOFPIPE symbol, which
?S: indicates to the C program that select will correctly detect the EOF
?S: condition when pipe
 is closed from the other end.
?S:.
?C:EOFPIPE:
?C: This symbol, if defined, indicates that EOF condition will be detected
?C: by the reader of the pipe when it is closed by the writing process.
?C: That is, a select() call on that file descriptor will not block when
?C: only an EOF remains (typical behaviour for BSD systems).
?C:.
?H:#$d_eofpipe EOFPIPE  /**/
?H:.
?F:!mpipe
: see if pipe correctly gives the EOF condition
echo " "
case "$d_eofpipe" in
")
 echo "Let's see if your pipes return EOF to select() upon closing..." >&4
 $cat >pipe.c <<'EOP'
int main()
{
 int pd[2];
 int mask;

 pipe(pd);
 if (0 == fork()) {
  close(pd[0]);
  close(pd[1]);
  exit(0);
 }

 close(pd[1]);
 mask = 1 << pd[0];
 alarm(2);
 select(32, &mask, (int *) 0, (int *) 0, (char *) 0);
 if (0 == read(pd[0], &mask, 1))
  exit(0);

 exit(1);
}
EOP
 if $cc $ccflags -o pipe pipe.c $libs >/dev/null 2>&1; then
?X: Use a script to avoid the possible 'alarm call' message
  echo "./pipe || exit 1" > mpipe
```

```
 chmod +x
mpipe
 ./mpipe >/dev/null 2>&1
 case $? in
 0) d_eofpipe="$define";;
 *) d_eofpipe="$undef";;
 esac
else
 echo "(The test program did not compile correctly -- Guessing.)"
 if ./bsd; then
  d_eofpipe="$define"
 else
  d_eofpipe="$undef"
 fi
fi
case "$d_eofpipe" in
"$define") echo "Yes, they do.";;
*) echo "No, they don't! (sigh)";;
esac
;;
*)
$echo $n "Your pipes $c"
case "$d_eofpipe" in
"$define") echo "allow select() to see EOF upon closing.";;
*) echo "won't let select() see EOF on closing.";;
esac
;;
esac
$rm -f *pipe* core
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_eofpipe.U
No license file was found, but licenses were detected in source scan.

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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: H.Merijn Brand
?RCS:
?MAKE:d_isblank: cc cat ccflags ldflags rm libs Setvar
?MAKE: -pick add $@ %<
?S:d_isblank:

```
?S: This variable conditionally defines the HAS_ISBLANK constant,
?S: which indicates to the C program that isblank() is available.
?S:.
?C:HAS_ISBLANK:
?C: This manifest constant lets the C program know that isblank
?C: is available.
?C:.
?H:#$d_isblank HAS_ISBLANK  /**/
?H:.
?LINT:set d_isblank
?X: Can't use Inlibc because isblank() might be a macro.
: Look for isblank
echo " "
$cat >isblank.c <<'EOCP'
#include
 <stdio.h>
#include <ctype.h>
int main() {
 int c = ' ';
 if (isblank(c))
  return 0 ;
 else
  return 1 ;
}
EOCP
if $cc $ccflags $ldflags -o isblank isblank.c $libs >/dev/null 2>&1 ; then
 echo "isblank() found." >&4
 val="$define"
else
 echo "isblank() NOT found." >&4
 val="$undef"
fi
set d_isblank
eval $setvar
$rm -f isblank*
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_isblank.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
```

```
?MAKE:d_ctime64 d_localtime64 d_gmtime64 d_mktime64 d_difftime64 d_asctime64: Inlibc
?MAKE: -pick add $@ %<
?S:d_ctime64:
?S: This variable conditionally defines the HAS_CTIME64 symbol, which
?S: indicates to the C program that the ctime64 () routine is available.
?S:.
?S:d_localtime64:
?S: This variable conditionally defines the HAS_LOCALTIME64 symbol, which
?S: indicates to the C program that the localtime64 () routine is available.
?S:.
?S:d_gmtime64:
?S: This variable conditionally defines the HAS_GMTIME64 symbol, which
?S: indicates to the C program that the gmtime64 () routine is available.
?S:.
?S:d_mktime64:
?S: This variable conditionally defines the HAS_MKTIME64 symbol, which
?S: indicates to the
 C program that the mktime64 () routine is available.
?S:.
?S:d_difftime64:
?S: This variable conditionally defines the HAS_DIFFTIME64 symbol, which
?S: indicates to the C program that the difftime64 () routine is available.
?S:.
?S:d_asctime64:
?S: This variable conditionally defines the HAS_ASCTIME64 symbol, which
?S: indicates to the C program that the asctime64 () routine is available.
?S:.
?C:HAS_CTIME64:
?C: This symbol, if defined, indicates that the ctime64 () routine is
?C: available to do the 64bit variant of ctime ()
?C:.
?C:HAS_LOCALTIME64:
?C: This symbol, if defined, indicates that the localtime64 () routine is
?C: available to do the 64bit variant of localtime ()
?C:.
?C:HAS_GMTIME64:
?C: This symbol, if defined, indicates that the gmtime64 () routine is
?C: available to do the 64bit variant of gmtime ()
?C:.
?C:HAS_MKTIME64:
?C: This symbol, if defined, indicates that the mktime64 () routine is
?C: available to do the 64bit variant of mktime ()
?C:.
?C:HAS_DIFFTIME64:
?C: This
 symbol, if defined, indicates that the difftime64 () routine is
?C: available to do the 64bit variant of difftime ()
?C:.
```

```
?C:HAS_ASCTIME64:
?C: This symbol, if defined, indicates that the asctime64 () routine is
?C: available to do the 64bit variant of asctime ()
?C:.
?H:#$d_ctime64 HAS_CTIME64  /**/
?H:#$d_localtime64 HAS_LOCALTIME64  /**/
?H:#$d_gmtime64 HAS_GMTIME64  /**/
?H:#$d_mktime64 HAS_MKTIME64  /**/
?H:#$d_difftime64 HAS_DIFFTIME64  /**/
?H:#$d_asctime64 HAS_ASCTIME64  /**/
?H:.
?LINT:set d_ctime64 d_localtime64 d_gmtime64 d_mktime64 d_difftime64 d_asctime64
: see if 64bit time functions exists

set ctime64 d_ctime64
eval $inlibc

set localtime64 d_localtime64
eval $inlibc

set gmtime64 d_gmtime64
eval $inlibc

set mktime64 d_mktime64
eval $inlibc

set difftime64 d_difftime64
eval $inlibc

set asctime64 d_asctime64
eval $inlibc

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
5.36.0/U/perl/d_timefuncs64.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_pidcheck.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_pidcheck.U,v $
```

```
?RCS: Revision 3.0.1.1  1997/02/28  15:37:55  ram
?RCS: patch61: replaced .o with $_o all over the place
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_pidcheck: cat rm +cc _o
?MAKE: -pick add $@ %<
?S:d_pidcheck:
?S: This variable conditionally defines the variable PIDCHECK
?S: which indicates that kill(pid, 0) will check for an
 active pid.
?S:.
?C:PIDCHECK:
?C: This symbol, if defined, means that the kill(pid, 0) will
?C: check for an active pid (i.e. the kernel will run all the
?C: necessary pid checks, but no signal is actually sent).
?C:.
?H:#$d_pidcheck PIDCHECK  /**/
?H:.
?F:!try
: check for "kill(pid, 0)"
echo " "
case "$d_pidcheck" in
"$define")
echo "I already know your system supports kill(pid, 0) for pid checks." >&4
 ;;
"$undef")
echo "We both know your system does not support signal #0 for pid checks." >&4
 ;;
*)
 echo "Checking to see if kill(pid, 0) works..." >&4
 $cat >try.c <<'EOCP'
int main()
 {
 int pid, status0, status9;

 if ((pid = fork()) == 0)
  {
  sleep(30);
  exit(1);
  }
 status0 = kill(pid, 0);
 status9 = kill(pid, 9);
 exit(status0 == status9);
 }
EOCP
```

```
 if $cc -o try try.c >/dev/null 2>&1 ; then
  if ./try >/dev/null 2>&1 ; then
   echo "Yes, it does marvels."
   d_pidcheck="$undef"
  else
   d_pidcheck="$define"
   echo "No, it doesn't."
  fi
 else
  echo "(I was unable to compile
 the test program.)"
  echo "Your system does not appear to support kill(pid, 0)."
  d_pidcheck="$undef"
 fi
 $rm -f try.c try$_o try
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_pidcheck.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endhostent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_endhostent_r endhostent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_endhostent_r:
?S: This variable conditionally defines the HAS_ENDHOSTENT_R symbol,
?S: which indicates to the C program that the endhostent_r()
?S: routine is available.
?S:.
?S:endhostent_r_proto:
?S: This variable encodes the prototype of endhostent_r.
?S: It is zero if d_endhostent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endhostent_r
?S: is defined.
?S:.
?C:HAS_ENDHOSTENT_R:
?C: This symbol, if defined, indicates that the endhostent_r routine
?C: is
```

```
 available to endhostent re-entrantly.
?C:.
?C:ENDHOSTENT_R_PROTO:
?C: This symbol encodes the prototype of endhostent_r.
?C: It is zero if d_endhostent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endhostent_r
?C: is defined.
?C:.
?H:#$d_endhostent_r HAS_ENDHOSTENT_R /**/
?H:#define ENDHOSTENT_R_PROTO $endhostent_r_proto /**/
?H:.
?T:try hdrs d_endhostent_r_proto
: see if endhostent_r exists
set endhostent_r d_endhostent_r
eval $inlibc
case "$d_endhostent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_endhostent_r_proto:$usethreads" in
 ":define") d_endhostent_r_proto=define
  set d_endhostent_r_proto endhostent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_endhostent_r_proto" in
 define)
 case "$endhostent_r_proto" in
 "|0) try='int endhostent_r(struct hostent_data*);'
 ./protochk "$extern_C $try" $hdrs && endhostent_r_proto=I_D ;;
 esac
 case "$endhostent_r_proto" in
 "|0) try='void endhostent_r(struct
 hostent_data*);'
 ./protochk "$extern_C $try" $hdrs && endhostent_r_proto=V_D ;;
 esac
 case "$endhostent_r_proto" in
 "|0) d_endhostent_r=undef
  endhostent_r_proto=0
  echo "Disabling endhostent_r, cannot determine prototype." >&4 ;;
 * ) case "$endhostent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) endhostent_r_proto="REENTRANT_PROTO_$endhostent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "endhostent_r has no prototype, not using it." >&4 ;;
```

```
  esac
  d_endhostent_r=undef
  endhostent_r_proto=0
  ;;
 esac
 ;;
*) endhostent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_endhostent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Config_sh.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Config_sh.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  14:57:53  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.2  1995/01/11  14:53:31  ram
?RCS: patch45: moved path stripping from d_portable.U to end of Configure
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:50:37  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X:
 This unit ends up producing the config.sh script, which contains all the
?X: definitions figured out by Configure.  The add.Config_sh command knows
?X: which variables need to be remembered.  It also adds the EOT (ends the
?X: here document redirection with variable substitution).
?X:
?MAKE:Config_sh: cf_time cf_by test spitshell startsh myuname Myread \
 End Obsol_sh Loc +d_portable package src cat
?MAKE: -pick add.Config_sh $@ %<
```

```
?MAKE: -pick add $@ ./Obsol_sh
?MAKE: -pick close.Config_sh $@ %<
?F:!config.over !config.arch
?T:file temp
?LINT:unclosed EOT
: back to where it started
if test -d ../UU; then
 cd ..
fi

: configuration may be unconditionally patched via a 'config.arch' file
if $test -f config.arch; then
 echo "I see a config.arch file, loading it." >&4
 . ./config.arch
fi

: configuration may be patched via a 'config.over' file
if $test -f config.over; then
 echo " "
 dflt=y
 rp='I see a config.over file.  Do you wish to load it?'
 . UU/myread
 case "$ans" in
 n*) echo
 "OK, I'll ignore it.";;
 *) . ./config.over
  echo "Configuration override changes have been loaded."
  ;;
 esac
fi

@if d_portable
: in case they want portability, strip down executable paths
?X:
?X: Strip down paths in located executables. For each file, e.g. vi, there
?X: is a $vi variable whose value is for instance '/usr/bin/vi'. By resetting
?X: $vi to 'vi', we rely on the PATH variable to locate the executable...
?X:
case "$d_portable" in
"$define")
 echo " "
 echo "Stripping down executable paths..." >&4
?X:
?X: Previously, we used to do    eval $file="\$file"  but in order
?X: to handle things like  sh Configure -Dmake=gmake, we can't do
?X: that.  What we *really* want is to strip away the absolute path
?X: and rely on the end user's $PATH to correctly find the executable.
?X: This method assumes there is a "basename" command available.  If
```

```
?X: not, replace it with the following expr-based command:
?X:   expr  $temp : '.*/\(.*\)' \| $temp
?X: Since this preserves the actual
 command name, we can now drop the
?X: OS/2 specific code.
?X:  --Andy Dougherty  August 1999
?X:
?X: On OS/2, a special $ar command not even named 'ar' is required,
?X: so we don't strip that name.
?X: Also, on DOS-ish systems, there might not be a ln command, but we
?X: might have ln='cp'.
?X: However, we can't set d_portable=undef on such systems since
?X: Unix-ish tools don't have standard locations there.  Thus we
?X: MUST rely on the user's $PATH.
?X: --Andy Dougherty  4/1998
?X:
 for file in $loclist $trylist; do
  eval temp=\$$file
  eval $file=`basename $temp`
 done
 ;;
esac

@end
: create config.sh file
echo " "
echo "Creating config.sh..." >&4
$spitshell <<EOT >config.sh
$startsh
#
# This file was produced by running the Configure script. It holds all the
# definitions figured out by Configure. Should you modify one of these values,
# do not forget to propagate your changes by running "Configure -der". You may
# instead choose to run each of the .SH files by yourself, or "Configure
 -S".
#

# Package name      : $package
# Source directory  : $src
# Configuration time: $cf_time
# Configured by     : $cf_by
# Target system     : $myuname

EOT
?X: Command line options are saved by the Options.U unit in the
?X: temporary file UU/cmdline.opt
: Add in command line options if available
$test -f UU/cmdline.opt && $cat UU/cmdline.opt >> config.sh
```

```
$spitshell <<EOT >>config.sh

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Config_sh.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: libdbm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libdbm.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:56:57  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libdbm: test Loc libpth _a
?MAKE: -pick add $@ %<
?S:libdbm:
?S: This variable contains the argument to pass to the loader in order
?S: to get the dbm library routines.  If there is no dbm or ndbm
?S: library, it is null.
?S:.
?T:xxx
:
 see if we should include -ldbm
echo " "
if $test -r /usr/lib/libndbm$_a || $test -r /usr/local/lib/libndbm$_a ; then
 echo "-lndbm found." >&4
 libdbm='-lndbm'
elif $test -r /usr/lib/libdbm$_a || $test -r /usr/local/lib/libdbm$_a ; then
 echo "-ldbm found." >&4
 libdbm='-ldbm'
else
 xxx=`./loc libdbm$_a x $libpth`
 case "$xxx" in
 x)
  echo "No dbm library found." >&4
  libdbm=''
```

```
  ;;
 *)
  echo "DBM library found in $xxx." >&4
  libdbm="$xxx"
  ;;
 esac
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/libdbm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorarch.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorarch.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:d_vendorarch vendorarch vendorarchexp installvendorarch: sed Getfile \
 Setprefixvar Oldconfig Prefixit archname vendorlib vendorprefix test
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorarch:
?S: This variable contains the value of the PERL_VENDORARCH symbol.
?S: It may have a ~ on the front.
?S: The standard distribution will put nothing in this directory.
?S: Vendors
 who distribute perl may wish to place their own
?S: architecture-dependent modules and extensions in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorarchexp:
?S: This variable is the ~name expanded version of vendorarch, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorarch="
?S:installvendorarch:
?S: This variable is really the same as vendorarchexp but may differ on
```

```
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?S:d_vendorarch:
?S: This variable conditionally defined PERL_VENDORARCH.
?S:.
?C:PERL_VENDORARCH:
?C: If defined, this symbol contains the name of a private library.
?C: The library is private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.
?C: It may have a ~ on the front.
?C: The standard distribution will put nothing in this
 directory.
?C: Vendors who distribute perl may wish to place their own
?C: architecture-dependent modules and extensions in this directory with
?C:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?C: or equivalent.  See INSTALL for details.
?C:.
?C:PERL_VENDORARCH_EXP:
?C: This symbol contains the ~name expanded version of PERL_VENDORARCH, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#$d_vendorarch PERL_VENDORARCH "$vendorarch"  /**/
?H:#$d_vendorarch PERL_VENDORARCH_EXP "$vendorarchexp"  /**/
?H:.
?LINT:change prefixvar
?LINT:set installvendorarch
: Set the vendorarch variables
case "$vendorprefix" in
") d_vendorarch="$undef"
 vendorarch="
 vendorarchexp="
 ;;
*) d_vendorarch="$define"
 : determine where vendor-supplied architecture-dependent libraries go.
 : vendorlib  default is /usr/local/lib/perl5/vendor_perl/$version
 : vendorarch default is /usr/local/lib/perl5/vendor_perl/$version/$archname
 : vendorlib may have an optional trailing
 /share.
 case "$vendorarch" in
 ") dflt=`echo $vendorlib | $sed 's,/share$,,'`
  dflt="$dflt/$archname"
  ;;
 *) dflt="$vendorarch" ;;
 esac
 fn=d~+
 rp='Pathname for vendor-supplied architecture-dependent files?'
 . ./getfile
```

```
 vendorarch="$ans"
 vendorarchexp="$ansexp"
 ;;
esac
prefixvar=vendorarch
. ./installprefix
if $test X"$vendorarch" = X"$vendorlib"; then
 d_vendorarch="$undef"
else
 d_vendorarch="$define"
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/vendorarch.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_futimes: Compile cat rm_try run
?MAKE: -pick add $@ %<
?S:d_futimes:
?S: This variable conditionally defines the HAS_FUTIMES symbol, which
?S: indicates to the C program that the futimes() routine is available.
?S:.
?C:HAS_FUTIMES:
?C: This symbol, if defined, indicates that the futimes routine is
?C: available to change file descriptor time stamps with struct timevals.
?C:.
?H:#$d_futimes HAS_FUTIMES  /**/
?H:.
?T:rc
?F:!try
: check for a working futimes
d_futimes="$undef"
echo " "
echo "Checking if you have a working futimes()" >&4
$cat >try.c <<EOCP
#include <stdio.h>
#include <stdlib.h>
#include <sys/time.h>
#include <errno.h>
#include <fcntl.h>
```

```
#include <stdlib.h>

int main ()
{
   int fd,
 rv;
   fd = open ("try.c", O_RDWR);
   if (-1 == fd) exit (1);
   rv = futimes (fd, NULL);
   exit (rv == -1 ? errno : 0);
}
EOCP
set try
if eval $compile; then
   `$run ./try`
   rc=$?
   case "$rc" in
 0)  echo "Yes, you have" >&4
     d_futimes="$define"
     ;;
 *)  echo "No, you have futimes, but it isn't working ($rc) (probably harmless)" >&4
     ;;
   esac
else
   echo "No, it does not (probably harmless)" >&4
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_futimes.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pipe.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_pipe.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:11:44  ram
?RCS: patch32: created by ADO
```

```
?RCS:
?MAKE:d_pipe: Inlibc
?MAKE: -pick add $@ %<
?S:d_pipe:
?S: This variable conditionally defines the HAS_PIPE symbol, which
?S: indicates to the C program that the pipe() routine is available
?S: to create an inter-process channel.
?S:.
?C:HAS_PIPE :
?C: This symbol, if defined, indicates
 that the pipe routine is
?C: available to create an inter-process channel.
?C:.
?H:#$d_pipe HAS_PIPE  /**/
?H:.
?LINT:set d_pipe
: see if pipe exists
set pipe d_pipe
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_pipe.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:usequadmath: Setvar cat uselongdouble
?MAKE: -pick add $@ %<
?S:usequadmath:
?S: This variable conditionally defines the USE_QUADMATH symbol,
?S: and indicates that the quadmath library __float128 long doubles
?S: should be used when available.
?S:.
?C:USE_QUADMATH:
?C: This symbol, if defined, indicates that the quadmath library should
?C: be used when available.
?C:.
?H:?%<:#ifndef USE_QUADMATH
?H:?%<:#$usequadmath USE_QUADMATH  /**/
?H:?%<:#endif
?H:.
: Check if quadmath is requested
case "$usequadmath" in
"$define"|true|[yY]*) usequadmath="$define" ;;
*)                    usequadmath="$undef"  ;;
esac
```

```
: Fail if both uselongdouble and usequadmath are requested
case "$usequadmath:$uselongdouble" in
define:define)
 $cat <<EOM >&4

*** You requested the use of
 the quadmath library and use
*** of long doubles.
***
*** Please select one or the other.
EOM
 exit 1
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/usequadmath.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_usleepproto: Hasproto i_unistd
?MAKE: -pick add $@ %<
?S:d_usleepproto:
?S: This variable conditionally defines the HAS_USLEEP_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the usleep() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_USLEEP_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the usleep() function.  Otherwise, it is up
?C: to the program to supply one.  A good guess is
?C:  extern int
 usleep(useconds_t);
?C:.
?H:#$d_usleepproto HAS_USLEEP_PROTO /**/
?H:.
```

```
?LINT:set d_usleepproto
: see if prototype for usleep is available
echo " "
set d_usleepproto usleep $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_usleepproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_statfs_f_flags: \
 Hasfield i_sysparam i_sysmount i_systypes \
 i_sysvfs i_sysstatfs Setvar d_statfs_s
?MAKE: -pick add $@ %<
?S:d_statfs_f_flags:
?S: This variable conditionally defines the HAS_STRUCT_STATFS_F_FLAGS
?S: symbol, which indicates to struct statfs from has f_flags member.
?S: This kind of struct statfs is coming from sys/mount.h (BSD),
?S: not from sys/statfs.h (SYSV).
?S:.
?C:HAS_STRUCT_STATFS_F_FLAGS:
?C: This symbol, if defined, indicates that the struct statfs
?C: does have the f_flags member containing the mount flags of
?C: the filesystem containing the file.
?C: This kind of struct statfs is coming from <sys/mount.h> (BSD 4.3),
?C: not from <sys/statfs.h> (SYSV).  Older BSDs
 (like Ultrix) do not
?C: have statfs() and struct statfs, they have ustat() and getmnt()
?C: with struct ustat and struct fs_data.
?C:.
?H:#$d_statfs_f_flags HAS_STRUCT_STATFS_F_FLAGS  /**/
?H:.
?LINT:set d_statfs_f_flags
: see if struct statfs knows about f_flags
case "$d_statfs_s" in
define)
 echo " "
 echo "Checking to see if your struct statfs has f_flags field..." >&4
 set d_statfs_f_flags statfs f_flags $i_systypes sys/types.h $i_sysparam sys/param.h $i_sysmount sys/mount.h
$i_sysvfs sys/vfs.h $i_sysstatfs sys/statfs.h
```

```
 eval $hasfield
 ;;
*) val="$undef"
 set d_statfs_f_flags
 eval $setvar
 ;;
esac
case "$d_statfs_f_flags" in
"$define")      echo "Yes, it does."   ;;
*)              echo "No, it doesn't." ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_statfs_f_flags.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getnbyad.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getnbyname: Inlibc
?MAKE: -pick add $@ %<
?S:d_getnbyname:
?S: This variable conditionally defines the HAS_GETNETBYNAME symbol, which
?S: indicates to the C program that the getnetbyname() routine is available
?S: to look up networks by their names.
?S:.
?C:HAS_GETNETBYNAME:
?C: This symbol, if defined, indicates that the getnetbyname() routine is
?C: available to look up networks by their names.
?C:.
?H:#$d_getnbyname HAS_GETNETBYNAME  /**/
?H:.
?LINT:set d_getnbyname
: see if getnetbyname exists
set getnetbyname d_getnbyname
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_getnbynm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
?RCS: Copyright (c) 1998, Jarkko Hietaniemi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?X:
?X: Useless unit dropped.  Use randfunc instead.
?X:
?LINT:empty
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/randbits.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: cppfilecom.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Orginal Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: cppfilecom.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:37  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:cppfilecom cppstdinflags d_cppignhdrs d_cppcanstdin: \
 contains package test Myread Oldconfig Loc Setvar cpp cc cat rm
?MAKE: -pick add $@ %<
?S:cppfilecom:
?S: This variable contains the first part of the string which will invoke
?S: the C preprocessor a file
 and produce to standard output, preserving
?S: comments. Typical value of "cc -E -C" or "/lib/cpp -C".
?S:.
?S:cppstdinflags:
?S: This variable contains any flags necessary to get cppfilecom to read
?S: from the standard input.
?S:.
?S:d_cppignhdrs:
```

```
?S: This symbol conditionally defines CPP_IGN_HDRS if CPP_FILE_COM ignores
?S: *.h files.
?S:.
?S:d_cppcanstdin:
?S: This symbol conditionally defines CPP_CAN_STDIN if CPP_FILE_COM can
?S: read standard input directly.
?S:.
?C:CPP_FILE_COM (CPPFILECOM):
?C: This symbol contains the first part of the string which will invoke
?C: the C preprocessor a file and produce to standard output, preserving
?C: comments. Typical value of "cc -E -C" or "/lib/cpp -C".
?C:.
?C:CPP_STDIN_FLAGS (CPPSTDINFLAGS):
?C: This variable contains any flags necessary to get CPP_FILE_COM to
?C: read from the standard input.
?C:.
?C:CPP_IGN_HDRS (CPPIGNHDRS):
?C: This symbol is defined if CPP_FILE_COM ignores *.h files.
?C:.
?C:CPP_CAN_STDIN (CPPCANSTDIN):
?C: This
 symbol is defined if CPP_FILE_COM can read standard input
?C: directly.
?C:.
?H:#define CPP_FILE_COM "$cppfilecom"
?H:#define CPP_STDIN_FLAGS "$cppstdinflags"
?H:#$d_cppignhdrs CPP_IGN_HDRS  /* does CPP ignore .h files? */
?H:#$d_cppcanstdin CPP_CAN_STDIN  /* can CPP read stdin directly? */
?H:.
?T:cont
?F:!testcpp.c !testcpp.h !testcpp.out
?LINT:set d_cppcanstdin d_cppignhdrs
?LINT:usefile testcpp.c testcpp.out
: see how we invoke the C preprocessor
$cat <<EOM

$package needs to be able to preprocess its input files in a mode which
preserves comments, which is often not the default behaviour.  It should run
the C preprocessor you will use when compiling your own source code, which
should be ISO/ANSI C compliant if you want $package to handle the latest
standard C.  I will try to guess, but I might guess wrongly because it is not
necessarily the same preprocessor used to build $package.

EOM
$cat <<'EOT' >testcpp.c
#define ABC abc
#define XYZ xyz
ABC.XYZ
```

```
/* comment */
EOT
:
if $test "X$cppfilecom"
 != "X" && \
 $cppfilecom testcpp.c </dev/null >testcpp.out 2>/dev/null && \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
 $contains comment testcpp.out >/dev/null 2>&1
then
 echo "You used to use $cppfilecom so we'll use that again."
elif echo 'Maybe "'$cc' -E -C" will work...' && \
 $cc -E -C testcpp.c </dev/null >testcpp.out 2>/dev/null && \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
 $contains comment testcpp.out >/dev/null 2>&1
then
 echo "It works!"
 cppfilecom="$cc -E -C"
elif echo 'Nope...maybe """$cc"' -P -C" will work...' && \
 $cc -P -C testcpp.c </dev/null >testcpp.out 2>/dev/null && \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
 $contains comment testcpp.out >/dev/null 2>&1
then
 echo "Yup, that does."
 cppfilecom="$cc -P -C"
elif echo 'No such luck, maybe """$cpp"' -C" will work...' && \
 $cpp -C testcpp.c </dev/null >testcpp.out 2>/dev/null && \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
 $contains comment testcpp.out
 >/dev/null 2>&1
then
 echo "Yup, it does."
 cppfilecom="$cpp -C"
else
 cppfilecom="
 $cat <<'EOM'
I can't find a C preprocessor that will preserve comments. Please name one.
EOM
fi
:
dflt="$cppfilecom"
cont=true
while $test "$cont" ; do
 echo " "
 rp="How should $package run your preprocessor preserving comments?"
 . ./myread
 cppfilecom="$ans"
 $cppfilecom testcpp.c >testcpp.out 2>&1
 if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
```

```
  $contains comment testcpp.out >/dev/null 2>&1
 then
  echo "OK, that will do."
  cont=''
 else
  echo "Sorry, I can't get that to work."
 fi
done

@if CPP_IGN_HDRS || d_cppignhdrs
: Now see if it ignores header files.
cp testcpp.c testcpp.h
$cppfilecom testcpp.h >testcpp.out 2>&1
if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
 $contains comment testcpp.out >/dev/null 2>&1
then
 echo "Terrific; it processes .h files passed on the command line too."
 val="$undef"
else
 echo "It ignores .h files on the command line; pity."
 val="$define"
fi
set
 d_cppignhdrs
eval $setvar

@end
@if CPP_STDIN_FLAGS || CPP_CAN_STDIN || cppstdinflags || d_cppcanstdin
: Now see how to send stdin to it.
echo " "
cp testcpp.c testcpp.h
$cppfilecom <testcpp.h >testcpp.out 2>&1
if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
 $contains comment testcpp.out >/dev/null 2>&1
then
 echo "Great; and it will read stdin if passed no arguments."
 val="$define"
 cppstdinflags=''
else
 $cppfilecom - <testcpp.h >testcpp.out 2>&1
 if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
  $contains comment testcpp.out >/dev/null 2>&1
 then
  echo "Great; and it can read stdin by passing it '-'."
  val="$define"
  cppstdinflags='-'
 else
  $cat <<FOO
```

```
Unfortunately, I can't find an easy way to get that preprocessor to read from
standard input. Do you know any flags I can pass it to get it to do so?
If that preprocessor can't read directly form standard input, answer 'none'.

FOO
 val='dunno'
 while $test "$val" = "dunno"; do
  rp='Flags to get preprocessor
 to read stdin?'
  dflt='none'
  . ./myread
  if $test $ans = 'none'; then
   echo "Oh well, if $package wants it done, it will do it for itself."
   val="$undef"
  else
   $cppfilecom $ans <testcpp.h >testcpp.out 2>&1
   if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
    $contains comment testcpp.out >/dev/null 2>&1
   then
    echo "Good; that works fine."
    val="$define"
    cppstdinflags="$ans"
   else
    echo "Sorry, I couldn't get that to work."
   fi
  fi
 done
 fi
fi
set d_cppcanstdin
eval $setvar

@end
: cleanup cpp test files anyway
$rm -f testcpp.*

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
5.36.0/dist/U/cppfilecom.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: vendorlib.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorlib.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:d_vendorlib vendorlib vendorlibexp installvendorlib vendorlib_stem: \
 Getfile Setprefixvar Oldconfig Prefixit package vendorprefix sed \
 installstyle version
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorlib:
?S: This variable contains the eventual value of the VENDORLIB symbol,
?S: which is the name of the private library for this package.
?S: The standard
 distribution will put nothing in this directory.
?S: Vendors who distribute perl may wish to place their own
?S: modules in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorlibexp:
?S: This variable is the ~name expanded version of vendorlib, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorlib="
?S:installvendorlib:
?S: This variable is really the same as vendorlibexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?S:d_vendorlib:
?S: This variable conditionally defines PERL_VENDORLIB.
?S:.
?S:vendorlib_stem:
?S: This variable is $vendorlibexp with any trailing version-specific component
?S: removed.  The elements in inc_version_list (inc_version_list.U) can
?S: be tacked onto this variable to generate a list of directories to search.
?S:.
?C:PERL_VENDORLIB:
?C: If defined, this symbol contains
 the name of a private library.
?C: The library is private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.  The program
?C: should be prepared to do ~ expansion.
?C: The standard distribution will put nothing in this directory.
?C: Vendors who distribute perl may wish to place their own
```

```
?C: modules in this directory with
?C:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?C: or equivalent.  See INSTALL for details.
?C:.
?C:PERL_VENDORLIB_EXP:
?C: This symbol contains the ~name expanded version of VENDORLIB, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?C:PERL_VENDORLIB_STEM:
?C: This define is PERL_VENDORLIB_EXP with any trailing version-specific component
?C: removed.  The elements in inc_version_list (inc_version_list.U) can
?C: be tacked onto this variable to generate a list of directories to search.
?C:.
?H:#$d_vendorlib PERL_VENDORLIB "$vendorlib"  /**/
?H:#$d_vendorlib PERL_VENDORLIB_EXP
 "$vendorlibexp"  /**/
?H:#$d_vendorlib PERL_VENDORLIB_STEM "$vendorlib_stem"  /**/
?H:.
?T:prog
?LINT:change prefixvar
?LINT:set installvendorlib
: Set the vendorlib variables
case "$vendorprefix" in
") d_vendorlib="$undef"
 vendorlib="
 vendorlibexp="
 ;;
*) d_vendorlib="$define"
 : determine where vendor-supplied modules go.
 : Usual default is /usr/local/lib/perl5/vendor_perl/$version
 case "$vendorlib" in
 ")
?X:  remove any trailing -3.0 or other version identification
  prog=`echo $package | $sed 's/-*[0-9.]*$//'`
  case "$installstyle" in
  *lib/perl5*) dflt=$vendorprefix/lib/$package/vendor_$prog/$version ;;
  *)      dflt=$vendorprefix/lib/vendor_$prog/$version ;;
  esac
  ;;
 *) dflt="$vendorlib"
  ;;
 esac
 fn=d~+
 rp='Pathname for the vendor-supplied library files?'
 . ./getfile
 vendorlib="$ans"
 vendorlibexp="$ansexp"
 ;;
```

```
esac
vendorlib_stem=`echo "$vendorlibexp" | sed "s,/$version$,,"`
prefixvar=vendorlib
. ./installprefix
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/vendorlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_safemcpy.U,v 3.0.1.5 1997/02/28 15:41:12 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_safemcpy.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  15:41:12  ram
?RCS: patch61: improved overlapping copy check
?RCS: patch61: comfort them if they have memmove
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.4  1995/07/25  13:58:46  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.3  1995/03/21  08:47:26  ram
?RCS: patch52: swapped two first arguments of memcpy() calls
?RCS:
?RCS:
 Revision 3.0.1.2  1994/10/29  16:15:10  ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:53:12  ram
?RCS: patch23: ensure string is not optimized in read-only memory (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_safemcpy: Compile cat d_memcpy rm_try run \
 d_memmove i_memory i_stdlib i_string i_unistd Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_safemcpy:
?S: This variable conditionally defines the HAS_SAFE_MEMCPY symbol if
?S: the memcpy() routine can do overlapping copies.
```

```
?S: For overlapping copies, memmove() should be used, if available.
?S:.
?C:HAS_SAFE_MEMCPY (SAFE_MEMCPY):
?C: This symbol, if defined, indicates that the memcpy routine is available
?C: to copy potentially overlapping memory blocks.  If you need to
?C: copy overlapping memory blocks, you should check HAS_MEMMOVE and
?C: use memmove() instead, if available.
?C:.
?H:#$d_safemcpy HAS_SAFE_MEMCPY /**/
?H:.
?F:!try
?LINT:
 set d_safemcpy
: can memcpy handle overlapping blocks?
echo " "
?X: assume the worst
val="$undef"
case "$d_memmove" in
"$define") echo "I'll use memmove() instead of memcpy() for overlapping copies." ;;
*) case "$d_memcpy" in
 "$define")
  echo "Checking to see if memcpy() can do overlapping copies..." >&4
  $cat >try.c <<EOCP
#$i_memory I_MEMORY
#$i_stdlib I_STDLIB
#$i_string I_STRING
#$i_unistd I_UNISTD
EOCP
 $cat >>try.c <<'EOCP'
#include <stdio.h>
#ifdef I_MEMORY
#  include <memory.h>
#endif
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#ifdef I_STRING
#  include <string.h>
#else
#  include <strings.h>
#endif
#ifdef I_UNISTD
#  include <unistd.h>  /* Needed for NetBSD */
#endif
int main()
{
char buf[128], abc[128];
char *b;
```

```
int len;
int off;
int align;

/* Copy "abcde..." string to char abc[] so that gcc doesn't
  try to store the string in read-only memory. */
memcpy(abc, "abcdefghijklmnopqrstuvwxyz0123456789", 36);

for (align = 7; align >=
 0; align--) {
 for (len = 36; len; len--) {
  b = buf+align;
  memcpy(b, abc, len);
  for (off = 1; off <= len; off++) {
   memcpy(b+off, b, len);
   memcpy(b, b+off, len);
   if (memcmp(b, abc, len))
    exit(1);
  }
 }
}
exit(0);
}
EOCP
  set try
  if eval $compile_ok; then
   if $run ./try 2>/dev/null; then
    echo "Yes, it can."
    val="$define"
   else
    echo "It can't, sorry."
   fi
  else
   echo "(I can't compile the test program, so we'll assume not...)"
  fi
  ;;
 esac
 $rm_try
 ;;
esac
set d_safemcpy
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_safemcpy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fpgetround: Inlibc
?MAKE: -pick add $@ %<
?S:d_fpgetround:
?S: This variable conditionally defines HAS_FPGETROUND if fpgetround()
?S: is available to get the floating point rounding mode.
?S:.
?C:HAS_FPGETROUND:
?C: This symbol, if defined, indicates that the fpgetround routine is
?C: available to get the floating point rounding mode.
?C:.
?H:#$d_fpgetround HAS_FPGETROUND  /**/
?H:.
?LINT:set d_fpgetround
: see if fpgetround exists
set fpgetround d_fpgetround
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fpgetround.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_open3.U,v 3.0.1.2 1997/02/28 15:37:12 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_open3.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:37:12  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  13:58:26  ram
?RCS: patch56: added knowledge of the O_NONBLOCK symbol
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_open3: Compile test cat h_fcntl h_sysfile rm_try Setvar Findhdr run i_stdlib
?MAKE: -pick add $@ %<
?X: It would be easy to separate the
```

```
 h_O_stuff from this.
?X: Is there a reason to do so? -- HMS
?S:d_open3:
?S: This variable conditionally defines the HAS_OPEN3 manifest constant,
?S: which indicates to the C program that the 3 argument version of
?S: the open(2) function is available.
?S:.
?C:HAS_OPEN3 (OPEN3):
?C: This manifest constant lets the C program know that the three
?C: argument form of open(2) is available.
?C:.
?H:#$d_open3 HAS_OPEN3  /**/
?H:.
?W:%<:O_RDONLY O_WRONLY O_RDWR O_NDELAY O_APPEND O_SYNC O_CREAT O_TRUNC
?W:%<:O_EXCL O_NONBLOCK
?F:!try
?LINT:set d_open3
?LINT:change h_fcntl h_sysfile
: Locate the flags for 'open()'
echo " "
$cat >try.c <<EOCP
#include <sys/types.h>
#ifdef I_FCNTL
#include <fcntl.h>
#endif
#ifdef I_SYS_FILE
#include <sys/file.h>
#endif
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() {
 if(O_RDONLY);
#ifdef O_TRUNC
 exit(0);
#else
 exit(1);
#endif
}
EOCP
: check sys/file.h first to get FREAD on Sun
if $test `./findhdr sys/file.h` && \
  set try -DI_SYS_FILE
 && eval $compile; then
 h_sysfile=true;
 echo "<sys/file.h> defines the O_* constants..." >&4
 if $run ./try; then
```

```
  echo "and you have the 3 argument form of open()." >&4
  val="$define"
 else
  echo "but not the 3 argument form of open().  Oh, well." >&4
  val="$undef"
 fi
elif $test `./findhdr fcntl.h` && \
  set try -DI_FCNTL && eval $compile; then
 h_fcntl=true;
 echo "<fcntl.h> defines the O_* constants..." >&4
 if $run ./try; then
  echo "and you have the 3 argument form of open()." >&4
  val="$define"
 else
  echo "but not the 3 argument form of open().  Oh, well." >&4
  val="$undef"
 fi
else
 val="$undef"
 echo "I can't find the O_* constant definitions!  You got problems." >&4
fi
set d_open3
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_open3.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sethostent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_sethostent_r sethostent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_sethostent_r:
?S: This variable conditionally defines the HAS_SETHOSTENT_R symbol,
?S: which indicates to the C program that the sethostent_r()
?S: routine is available.
?S:.
?S:sethostent_r_proto:
?S: This variable encodes the prototype of sethostent_r.
```

```
?S: It is zero if d_sethostent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_sethostent_r
?S: is defined.
?S:.
?C:HAS_SETHOSTENT_R:
?C: This symbol, if defined, indicates that the sethostent_r routine
?C: is
 available to sethostent re-entrantly.
?C:.
?C:SETHOSTENT_R_PROTO:
?C: This symbol encodes the prototype of sethostent_r.
?C: It is zero if d_sethostent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_sethostent_r
?C: is defined.
?C:.
?H:#$d_sethostent_r HAS_SETHOSTENT_R /**/
?H:#define SETHOSTENT_R_PROTO $sethostent_r_proto /**/
?H:.
?T:try hdrs d_sethostent_r_proto
: see if sethostent_r exists
set sethostent_r d_sethostent_r
eval $inlibc
case "$d_sethostent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_sethostent_r_proto:$usethreads" in
 ":define") d_sethostent_r_proto=define
  set d_sethostent_r_proto sethostent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_sethostent_r_proto" in
 define)
 case "$sethostent_r_proto" in
 "|0) try='int sethostent_r(int, struct hostent_data*);'
 ./protochk "$extern_C $try" $hdrs && sethostent_r_proto=I_ID ;;
 esac
 case "$sethostent_r_proto" in
 "|0) try='void
 sethostent_r(int, struct hostent_data*);'
 ./protochk "$extern_C $try" $hdrs && sethostent_r_proto=V_ID ;;
 esac
 case "$sethostent_r_proto" in
 "|0) d_sethostent_r=undef
  sethostent_r_proto=0
  echo "Disabling sethostent_r, cannot determine prototype." >&4 ;;
 * ) case "$sethostent_r_proto" in
  REENTRANT_PROTO*) ;;
```

```
  *) sethostent_r_proto="REENTRANT_PROTO_$sethostent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "sethostent_r has no prototype, not using it." >&4 ;;
  esac
  d_sethostent_r=undef
  sethostent_r_proto=0
  ;;
 esac
 ;;
*) sethostent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_sethostent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: startperl.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:25:06  ram
?RCS: patch61: warn them if the #! line is too long for their OS
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:startperl: cat rm sharpbang perlpath d_portable Myread
?MAKE: -pick add $@ %<
?S:startperl:
?S: This variable contains the string to put on the front of a perl
?S: script to make sure (hopefully) that it runs with perl and not some
?S: shell. Of course, that
 leading line must be followed by the classical
?S: perl idiom:
?S:  eval 'exec perl -S $0 ${1+"$@"}'
```

```
?S:   if $running_under_some_shell;
?S: to guarantee perl startup should the shell execute the script. Note
?S: that this magic incantation is not understood by csh.
?S:.
?C:STARTPERL:
?C: This symbol is the string that should be put on the front of a
?C: perl script to make sure (hopefully) that it runs with perl and
?C: not under some shell. That line should be followed by the classical
?C: invocation magic:
?C:  eval 'exec perl -S $0 ${1+"$@"}'
?C:   if $running_under_some_shell;
?C: to guarantee perl startup should the shell execute the script at first.
?C:.
?H:#define STARTPERL "$startperl"
?H:.
?T:pdflt
?F:!xtry
: figure out how to guarantee perl startup
case "$sharpbang" in
*!)
?X:
?X: Make sure the #!$perlpath magic incantation indeed works on this
?X: system... It might not if the length of the #! hook is greater
?X: than some hardwired kernel limit. -- RAM, 15/03/96
?X:
 $cat
 >xtry <<EOP
#!$perlpath
system("exit 0");
EOP
 chmod a+x xtry
 if ./xtry >/dev/null 2>&1; then
  $cat <<EOH

I can use the #! construct to start perl on your system. This will make
startup of perl scripts faster, but may cause problems if you want to share
those scripts and perl is not in a standard place (/usr/bin/perl) on all your
platforms. The alternative is to force a shell by starting the script with a
single ':' character.

EOH
  pdflt=y
 else
  $cat <<EOH

I could use the #! construct to start perl on your system, but using
   #!$perlpath
would be too long for your kernel to grok. Indeed, most systems do
```

```
limit the size of the leading #! string to 32 characters.

EOH
  pdflt=n
 fi
 $rm -f xtry
 case "$startperl" in
 *!*) dflt=y;;
 ") case "$d_portable" in
  "$define") dflt=n;;
  *) dflt=$pdflt;;
  esac;;
 *) dflt=n;;
 esac
 rp='Shall I use #! to start up perl?'
 . ./myread
 case "$ans" in
 y*|Y*) startperl="#!$perlpath";;
 *) startperl=": # use perl";;
 esac;;
*) startperl=":
 # use perl";;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/startperl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_stat.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_stat.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:28  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_stat: Inlibc
?MAKE: -pick add $@ %<
?S:d_stat:
?S: This variable conditionally defines HAS_STAT if stat() is
?S: available to get file status.
```

```
?S:.
?C:HAS_STAT (STAT):
?C: This symbol, if defined, indicates that the stat routine is
?C: available to get file status.
?C:.
?H:#$d_stat HAS_STAT /**/
?H:.
?LINT:set d_stat
: see if stat exists
set
 stat d_stat
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_stat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Compile.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS:
?X:
?X: This unit is just a quick shorthand for the compile command
?X: to be used in all the other metaconfig units.
?X:
?MAKE:Compile: +cc +optimize +ccflags +ldflags +libs test
?MAKE: -pick wipe $@ %<
?LINT:extern usedevel maintloc
?LINT:define compile compile_ok
?V:compile compile_ok mc_file
?S:compile:
?S: This shell variable is used internally by Configure to provide
?S: a convenient shorthand for the typical compile command, namely
?S: $cc $optimize $ccflags $ldflags -o $1 $1.c $libs > /dev/null 2>&1
?S: Note that the output filename does _not_ include the _exe
?S: extension.  Instead we assume that the linker will be
?S: "helpful" and automatically appending the correct suffix.
?S: OS/2
 users will apparently need to supply the -Zexe flag to
?S: get this behavior.
?S:
?S: To use this variable, say something like:
?S:  echo 'int main() { exit(0); }' > try.c
```

```
?S:  set try
?S:  if eval $compile; then
?S:   echo "success"   # and do whatever . . .
?S:  else
?S:   echo "failure"   # and do whatever . . .
?S:  fi
?S: To add extra flags cc flags (e.g. -DWHATEVER) just put them
?S: in $*, e.g.
?S:  set try -DTRY_THIS_FLAG
?S:.
?S:compile_ok:
?S: This shell variable is used internally by Configure to provide
?S: a convenient shorthand for the typical compile command that you
?S: expect to work ok.  It is the same as $compile, except we
?S: deliberately let the user see any error messages.
?S:.
: define a shorthand compile call
compile='
mc_file=$1;
shift;
case "$usedevel" in $define|true|[yY]*) if $test ! -f "${mc_file}.c"; then
echo "Internal Configure script bug - compiler test file ${mc_file}.c is missing. Please report this to <$maintloc>"
>&4;
exit 1;
fi;
esac;
$cc
 -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs > /dev/null 2>&1;'
: define a shorthand compile call for compilations that should be ok.
compile_ok='
mc_file=$1;
shift;
$cc -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs > /dev/null 2>&1;'
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/Compile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_ilogbl: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_ilogbl:
?S: This variable conditionally defines the HAS_ILOGBL symbol, which
?S: indicates to the C program that the ilogbl() routine is available
?S: for extracting the exponent of long double x as a signed integer.
?S: If scalbnl is also present we can emulate frexpl.
?S:.
?C:HAS_ILOGBL:
?C: This symbol, if defined, indicates that the ilogbl routine is
?C: available.  If scalbnl is also present we can emulate frexpl.
?C:.
?H:#$d_ilogbl HAS_ILOGBL  /**/
?H:.
?LINT:set d_ilogbl
: see if ilogbl exists
set ilogbl d_ilogbl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_ilogbl.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Tye McQueen <tye@metronet.com>
?RCS:
?RCS: $Log: d_stdstdio.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:46:32  ram
?RCS: patch61: merged with perl5's unit
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  14:06:54  ram
?RCS: patch56: typo fix on ?C: line for FILE_bufsiz
?RCS: patch56: fixed unbalanced parenthesis (ADO)
?RCS: patch56: check whether FILE_cnt and FILE_ptr can be assigned to (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1995/05/12  12:12:11  ram
?RCS: patch54: complete rewrite by Tye McQueen
 to fit modern systems
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:31  ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_stdstdio d_stdiobase stdio_ptr stdio_cnt stdio_base \
 stdio_bufsiz d_stdio_cnt_lval d_stdio_ptr_lval stdio_filbuf: cat \
 +cc +ccflags contains +ldflags +libs rm_try \
 Setvar Findhdr Oldconfig
?MAKE: -pick add $@ %<
?S:d_stdstdio:
?S: This variable conditionally defines USE_STDIO_PTR if this system
?S: has a FILE structure declaring usable _ptr and _cnt fields (or
?S: equivalent) in stdio.h.
?S:.
?S:stdio_ptr:
?S: This variable defines how, given a FILE pointer, fp, to access the
?S: _ptr field (or equivalent) of stdio.h's FILE structure.  This will
?S: be used to define the macro FILE_ptr(fp).
?S:.
?S:d_stdio_ptr_lval:
?S: This variable conditionally defines STDIO_PTR_LVALUE if the
?S: FILE_ptr macro can be used as an lvalue.
?S:.
?S:stdio_cnt:
?S: This variable defines how, given a FILE pointer, fp, to access the
?S: _cnt field (or equivalent) of
 stdio.h's FILE structure.  This will
?S: be used to define the macro FILE_cnt(fp).
?S:.
?S:d_stdio_cnt_lval:
?S: This variable conditionally defines STDIO_CNT_LVALUE if the
?S: FILE_cnt macro can be used as an lvalue.
?S:.
?S:stdio_filbuf:
?S: This variable defines how, given a FILE pointer, fp, to tell
?S: stdio to refill it's internal buffers (?).  This will
?S: be used to define the macro FILE_filbuf(fp).
?S:.
?S:d_stdiobase:
?S: This variable conditionally defines USE_STDIO_BASE if this system
?S: has a FILE structure declaring a usable _base field (or equivalent)
?S: in stdio.h.
?S:.
?S:stdio_base:
?S: This variable defines how, given a FILE pointer, fp, to access the
?S: _base field (or equivalent) of stdio.h's FILE structure.  This will
?S: be used to define the macro FILE_base(fp).
?S:.
?S:stdio_bufsiz:
?S: This variable defines how, given a FILE pointer, fp, to determine
```

```
?S: the number of bytes store in the I/O buffer pointer to by the
?S: _base field (or equivalent) of stdio.h's
 FILE structure.  This will
?S: be used to define the macro FILE_bufsiz(fp).
?S:.
?C:USE_STDIO_PTR ~ d_stdstdio (USE_STD_STDIO STDSTDIO):
?C: This symbol is defined if the _ptr and _cnt fields (or similar)
?C: of the stdio FILE structure can be used to access the stdio buffer
?C: for a file handle.  If this is defined, then the FILE_ptr(fp)
?C: and FILE_cnt(fp) macros will also be defined and should be used
?C: to access these fields.
?C:.
?C:FILE_ptr:
?C: This macro is used to access the _ptr field (or equivalent) of the
?C: FILE structure pointed to by its argument. This macro will always be
?C: defined if USE_STDIO_PTR is defined.
?C:.
?C:STDIO_PTR_LVALUE:
?C: This symbol is defined if the FILE_ptr macro can be used as an
?C: lvalue.
?C:.
?C:FILE_cnt:
?C: This macro is used to access the _cnt field (or equivalent) of the
?C: FILE structure pointed to by its argument. This macro will always be
?C: defined if USE_STDIO_PTR is defined.
?C:.
?C:STDIO_CNT_LVALUE:
?C: This symbol is defined
 if the FILE_cnt macro can be used as an
?C: lvalue.
?C:.
?C:FILE_filbuf:
?C: This macro is used to access the internal stdio _filbuf function
?C: (or equivalent), if STDIO_CNT_LVALUE and STDIO_PTR_LVALUE
?C: are defined.  It is typically either _filbuf or __filbuf.
?C: This macro will only be defined if both STDIO_CNT_LVALUE and
?C: STDIO_PTR_LVALUE are defined.
?C:.
?H:?d_stdstdio:#$d_stdstdio USE_STDIO_PTR  /**/
?H:?d_stdstdio:#ifdef USE_STDIO_PTR
?H:#define FILE_ptr(fp) $stdio_ptr
?H:#$d_stdio_ptr_lval STDIO_PTR_LVALUE   /**/
?H:#define FILE_cnt(fp) $stdio_cnt
?H:#$d_stdio_cnt_lval STDIO_CNT_LVALUE   /**/
?H:?d_stdstdio:#if defined(STDIO_PTR_LVALUE) && defined(STDIO_CNT_LVALUE)
?H:#define FILE_filbuf(fp) $stdio_filbuf   /**/
?H:?d_stdstdio:#endif
?H:?d_stdstdio:#endif
```

```
?H:.
?W:d_stdstdio:FILE_ptr FILE_cnt FILE_filbuf
?C:USE_STDIO_BASE ~ d_stdiobase:
?C: This symbol is defined if the _base field (or similar) of the
?C: stdio FILE structure can be used to access the stdio buffer
 for
?C: a file handle.  If this is defined, then the FILE_base(fp) macro
?C: will also be defined and should be used to access this field.
?C: Also, the FILE_bufsiz(fp) macro will be defined and should be used
?C: to determine the number of bytes in the buffer.  USE_STDIO_BASE
?C: will never be defined unless USE_STDIO_PTR is.
?C:.
?C:FILE_base:
?C: This macro is used to access the _base field (or equivalent) of the
?C: FILE structure pointed to by its argument. This macro will always be
?C: defined if USE_STDIO_BASE is defined.
?C:.
?C:FILE_bufsiz:
?C: This macro is used to determine the number of bytes in the I/O
?C: buffer pointed to by _base field (or equivalent) of the FILE
?C: structure pointed to its argument. This macro will always be defined
?C: if USE_STDIO_BASE is defined.
?C:.
?H:?d_stdiobase:#$d_stdiobase USE_STDIO_BASE  /**/
?H:?d_stdiobase:#ifdef USE_STDIO_BASE
?H:#define FILE_base(fp) $stdio_base
?H:#define FILE_bufsiz(fp) $stdio_bufsiz
?H:?d_stdiobase:#endif
?H:.
?W:d_stdiobase:FILE_base
 FILE_bufsiz
?LINT:set d_stdstdio d_stdiobase
?T:ptr_lval cnt_lval filbuf xxx
?F:!try
: see if _ptr and _cnt from stdio act std
echo " "
if $contains '_IO_fpos_t' `./findhdr stdio.h` >/dev/null 2>&1 ; then
 echo "(Looks like you have stdio.h from Linux.)"
 case "$stdio_ptr" in
 ") stdio_ptr='((fp)->_IO_read_ptr)'
  ptr_lval=$define
  ;;
 *) ptr_lval=$d_stdio_ptr_lval;;
 esac
 case "$stdio_cnt" in
 ") stdio_cnt='((fp)->_IO_read_end - (fp)->_IO_read_ptr)'
  cnt_lval=$undef
  ;;
```

```
 *) cnt_lval=$d_stdio_cnt_lval;;
 esac
 case "$stdio_base" in
 '') stdio_base='((fp)->_IO_read_base)';;
 esac
 case "$stdio_bufsiz" in
 '') stdio_bufsiz='((fp)->_IO_read_end - (fp)->_IO_read_base)';;
 esac
else
 case "$stdio_ptr" in
 '') stdio_ptr='((fp)->_ptr)'
  ptr_lval=$define
  ;;
 *) ptr_lval=$d_stdio_ptr_lval;;
 esac
 case "$stdio_cnt" in
 '') stdio_cnt='((fp)->_cnt)'
  cnt_lval=$define
  ;;
 *) cnt_lval=$d_stdio_cnt_lval;;
 esac
 case "$stdio_base" in
 '') stdio_base='((fp)->_base)';;
 esac
 case
 "$stdio_bufsiz" in
 '') stdio_bufsiz='((fp)->_cnt + (fp)->_ptr - (fp)->_base)';;
 esac
fi
: test whether _ptr and _cnt really work
echo "Checking how std your stdio is..." >&4
$cat >try.c <<EOP
#include <stdio.h>
#define FILE_ptr(fp) $stdio_ptr
#define FILE_cnt(fp) $stdio_cnt
int main() {
 FILE *fp = fopen("try.c", "r");
 char c = getc(fp);
 if (
  18 <= FILE_cnt(fp) &&
  strncmp(FILE_ptr(fp), "include <stdio.h>\n", 18) == 0
 )
  exit(0);
 exit(1);
}
EOP
val="$undef"
if $cc $ccflags $ldflags -o try try.c $libs >/dev/null 2>&1; then
```

```
 if ./try; then
  echo "Your stdio acts pretty std."
  val="$define"
 else
  echo "Your stdio isn't very std."
 fi
else
 echo "Your stdio doesn't appear very std."
fi
$rm_try
set d_stdstdio
eval $setvar

@if STDIO_PTR_LVALUE || d_stdio_ptr_lval
: Can _ptr be used as an lvalue?
?X: Only makes sense if we have a known stdio implementation.
case "$d_stdstdio$ptr_lval" in
$define$define) val=$define ;;
*) val=$undef ;;
esac
set d_stdio_ptr_lval
eval
 $setvar

@end
@if STDIO_CNT_LVALUE || d_stdio_cnt_lval
: Can _cnt be used as an lvalue?
?X: Only makes sense if we have a known stdio implementation.
case "$d_stdstdio$cnt_lval" in
$define$define) val=$define ;;
*) val=$undef ;;
esac
set d_stdio_cnt_lval
eval $setvar

@end
@if FILE_filbuf
: How to access the stdio _filbuf or __filbuf function.
: If this fails, check how the getc macro in stdio.h works.
case "${d_stdio_ptr_lval}${d_stdio_cnt_lval}" in
${define}${define})
 : Try hint value, if any, then _filbuf, __filbuf, _fill, then punt.
 : _fill is for OS/2.
 xxx='notok'
 for filbuf in $stdio_filbuf '_filbuf(fp)' '__filbuf(fp) ' '_fill(fp)' ; do
  $cat >try.c <<EOP
#include <stdio.h>
#define FILE_ptr(fp) $stdio_ptr
```

```
#define FILE_cnt(fp) $stdio_cnt
#define FILE_filbuf(fp) $filbuf
int main() {
 FILE *fp = fopen("try.c", "r");
 int c;
 c = getc(fp);
 c = FILE_filbuf(fp);  /* Just looking for linker errors.*/
 exit(0);
}
EOP
  if $cc $ccflags $ldflags -o try try.c $libs >/dev/null 2>&1 &&
 ./try; then
   echo "Your stdio appears to use $filbuf"
   stdio_filbuf="$filbuf"
   xxx='ok'
   break
  else
   echo "Hmm.  $filbuf doesn't seem to work."
  fi
  $rm_try
 done
 case "$xxx" in
 notok) echo "I can't figure out how to access _filbuf"
   echo "I'll just have to work around it."
   d_stdio_ptr_lval="$undef"
   d_stdio_cnt_lval="$undef"
   ;;
 esac
 ;;
esac
@end
@if d_stdiobase || USE_STDIO_BASE || FILE_base || FILE_bufsiz
: see if _base is also standard
val="$undef"
case "$d_stdstdio" in
$define)
 $cat >try.c <<EOP
#include <stdio.h>
#define FILE_base(fp) $stdio_base
#define FILE_bufsiz(fp) $stdio_bufsiz
int main() {
 FILE *fp = fopen("try.c", "r");
 char c = getc(fp);
 if (
  19 <= FILE_bufsiz(fp) &&
  strncmp(FILE_base(fp), "#include <stdio.h>\n", 19) == 0
 )
  exit(0);
```

```
 exit(1);
}
EOP
 if $cc $ccflags $ldflags -o try try.c $libs > /dev/null 2>&1; then
  if ./try; then
   echo "And its _base field acts std."
   val="$define"
  else
   echo "But its _base field isn't std."
  fi
 else
  echo
 "However, it seems to be lacking the _base field."
 fi
 $rm_try
 ;;
esac
set d_stdiobase
eval $setvar

@end
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_stdstdio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: cc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cc.U,v $
?RCS: Revision 3.0.1.4  1995/05/12  12:06:47  ram
?RCS: patch54: may now abort Configure when cc does not work
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:20:11  ram
?RCS: patch45: changed gcc checking message to a more explicit one (WED)
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:04:29  ram
?RCS: patch36: detect gcc even when not called as 'gcc' (ADO)
?RCS: patch36: simplified gcc version checking (ADO)
?RCS: patch36: added ?F: line for metalint
```

```
 file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:26:06  ram
?RCS: patch23: added support for gcc version (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:30  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:cc: Myread Oldconfig Checkcc test
?MAKE: -pick add $@ %<
?S:cc:
?S: This variable holds the name of a command to execute a C compiler which
?S: can resolve multiple global references that happen to have the same
?S: name.  Usual values are 'cc' and 'gcc'.
?S: Fervent ANSI compilers may be called 'c89'.  AIX has xlc.
?S:.
?F:!cc.cbu
?D:cc='cc'
: Determine the C compiler to be used
echo " "
case "$cc" in
") dflt=cc;;
*) dflt="$cc";;
esac
rp="Use which C compiler?"
. ./myread
cc="$ans"

: See whether they have no cc but they do have gcc
. ./trygcc
?X: Look for a hint-file generated 'call-back-unit'.  Now that the
?X: user has specified the compiler, we may need to set or change some
?X: other defaults.
if $test -f cc.cbu; then
   . ./cc.cbu
fi
. ./checkcc

Found
 in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/cc.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_mbstowcs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_mbstowcs.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:29  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_mbstowcs: Inlibc
?MAKE: -pick add $@ %<
?S:d_mbstowcs:
?S: This variable conditionally defines the HAS_MBSTOWCS symbol, which
?S: indicates to the C program that the mbstowcs() routine is available
?S: to convert a multibyte string into a wide character string.
?S:.
?C:HAS_MBSTOWCS (MBSTOWCS):
?C: This symbol, if defined, indicates
 that the mbstowcs routine is
?C: available to convert a multibyte string into a wide character string.
?C:.
?H:#$d_mbstowcs HAS_MBSTOWCS  /**/
?H:.
?LINT:set d_mbstowcs
: see if mbstowcs exists
set mbstowcs d_mbstowcs
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_mbstowcs.U
No license file was found, but licenses were detected in source scan.

```
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:fpossize: Myread Typedef fpostype Compile longsize run i_stdlib
?MAKE: -pick add $@ %<
?S:fpossize:
?S: This variable contains the size of a fpostype in bytes.
?S:.
```

```
?C:Fpos_t_size:
?C: This symbol holds the size of a Fpos_t in bytes.
?C:.
?H:#define Fpos_t_size $fpossize  /* FPOS size */
?H:.
?T:yyy zzz
?F:!try
: Check size for Fpos_t
echo " "
case "$fpostype" in
*_t) zzz="$fpostype" ;;
*)   zzz="fpos_t" ;;
esac
echo "Checking the size of $zzz..." >&4
cat > try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef
 I_STDLIB
#include <stdlib.h>
#endif
int main() {
   printf("%d\n", (int)sizeof($fpostype));
   exit(0);
}
EOCP
set try
if eval $compile_ok; then
 yyy=`$run ./try`
 case "$yyy" in
 ") fpossize=4
  echo "(I can't execute the test program--guessing $fpossize.)" >&4
  ;;
 *) fpossize=$yyy
  echo "Your $zzz is $fpossize bytes long."
  ;;
 esac
else
 dflt="$longsize"
 echo " " >&4
 echo "(I can't compile the test program.  Guessing...)" >&4
 rp="What is the size of your file positions (in bytes)?"
 . ./myread
 fpossize="$ans"
fi
```

Found in path(s):

* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/fpossize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_NOFILE.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:08:38  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:nofile d_gettblsz tablesize: Myread Guess cat +cc +ccflags +libs \
 test rm Csym
?MAKE: -pick add $@ %<
?S:nofile:
?S: This variable contains the number of file descriptors available to the
?S: process.
?S:.
?S:d_gettblsz:
?S: This variable conditionally handles remapping
 of the getdtablesize()
?S: subroutine to ulimit(4,0), or the NOFILE manifest constant.
?S:.
?S:tablesize:
?S: This variable contains either the 'NOFILE' constant or 'ulimit(4, 0L)'
?S: and is used as the remapped value for the getdtablesize() macro.
?S:.
?C:getdtablesize:
?C: This catches use of the getdtablesize() subroutine, and remaps it
?C: to either ulimit(4,0) or NOFILE, if getdtablesize() isn't available.
?C:.
?C:VAL_NOFILE:
?C: This symbol contains the number of file descriptors available to the
?C: process, as determined at configuration time. Unless a static constant
?C: is needed, you should rely on getdtablesize() to obtain that number.
?C:.
?H:#$d_gettblsz getdtablesize() $tablesize /**/
?H:#define VAL_NOFILE $nofile /* Number of file descriptors */
```

```
?H:.
?F:!nofile
?T:d_ulimit4 val
: see if getdtablesize exists
echo " "
?X: Revert logical value (d_gettblsz is undef iff getdtablesize is present)
case "$d_gettblsz" in
$define) d_gettblsz="$undef";;
$undef) d_gettblsz="$define";;
esac
if
 set getdtablesize val -f d_gettblsz; eval $csym; $val; then
 echo 'getdtablesize() found.' >&4
 d_gettblsz="$undef"
 tablesize=''
@if VAL_NOFILE || nofile
 $cat >nofile.c <<'EOCP'
#include <stdio.h>
int main()
{
 printf("%d\n", getdtablesize());
}
EOCP
 nofile=''
 if $cc $ccflags -o nofile nofile.c $libs >/dev/null 2>&1; then
  nofile=`./nofile 2>/dev/null`
 fi
 if $test "$nofile"; then
  echo "(You have $nofile file descriptors available per process.)"
 else
  nofile='20'
  if ./bsd; then
   nofile='64'
  fi
 echo "(Hmm... Let's say you have $nofile file descriptors available.)"
 fi
@end
else
 echo 'getdtablesize() NOT found...' >&4
 if set ulimit val -f; eval $csym; $val; then
  echo 'Maybe ulimit(4,0) will work...'
  $cat >nofile.c <<'EOCP'
#include <stdio.h>
#ifdef GETPARAM_H
#include <sys/param.h>
#endif
int main()
{
```

```
 printf("%d %d\n",
#ifdef NOFILE
  NOFILE,
#else
  0,
#endif
  ulimit(4,0));
  exit(0);
}
EOCP
  if $cc $ccflags -DGETPARAM_H -o nofile nofile.c $libs
 >/dev/null 2>&1 \
   || $cc $ccflags -o nofile nofile.c $libs >/dev/null 2>&1 ; then
   set `./nofile`
   d_gettblsz=$1
   d_ulimit4=$2
   if $test "$d_ulimit4" -lt 0; then
    echo "Your ulimit() call doesn't tell me what I want to know."
    echo "We'll just use NOFILE in this case."
    nofile=$d_gettblsz
    d_gettblsz="$define"
    tablesize='NOFILE'
   else
    if $test "$d_gettblsz" -gt 0; then
    echo "Your system defines NOFILE to be $d_gettblsz, and" >&4
    else
    echo "I had trouble getting NOFILE from your system, but" >&4
    fi
echo "ulimit returns $d_ulimit4 as the number of available file descriptors." >&4
    dflt='y';
    echo " "
 rp='Should I use ulimit to get the number of available file descriptors?'
    . ./myread
    case "$ans" in
    y*)
     nofile=$d_ulimit4
     d_gettblsz="$define"
     tablesize='ulimit(4, 0L)'
     echo "Using ulimit(4,0)."
     ;;
    *)
     nofile=$d_gettblsz
     d_gettblsz="$define"
     tablesize='NOFILE'
     echo "Using NOFILE."
     ;;
    esac
   fi
```

```
  else
   echo
 "Strange, I couldn't get my test program to compile."
   echo "We'll just use NOFILE in this case."
   d_gettblsz="$define"
   tablesize='NOFILE'
   nofile=''
  fi
 else
  echo 'Using NOFILE instead.'
  d_gettblsz="$define"
  tablesize='NOFILE'
  nofile=''
 fi
fi
@if VAL_NOFILE || nofile
case "$nofile" in
'')
 $cat >nofile.c <<'EOCP'
#include <stdio.h>
#ifdef GETPARAM_H
#include <sys/param.h>
#endif
int main()
{
 printf("%d\n",
#ifdef NOFILE
  NOFILE,
#else
  0,
#endif
  );
  exit(0);
}
EOCP
 if $cc $ccflags -DGETPARAM_H -o nofile nofile.c $libs >/dev/null 2>&1 \
  || $cc $ccflags -o nofile nofile.c $libs >/dev/null 2>&1 ; then
  nofile=`./nofile 2>/dev/null`
 fi
 if $test "$nofile"; then
  echo "(You have $nofile file descriptors available per process.)"
 else
  nofile='20'
  if ./bsd; then
   nofile='64'
  fi
 echo "(Hmm... Let's say you have $nofile file descriptors available.)"
 fi
```

```
 ;;
esac
@end
$rm -f nofile*
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_NOFILE.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strtoul.U,v 3.0.1.1 1997/02/28 15:46:43 ram Exp $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_strtoul.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:46:43  ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_strtoul: Inlibc cat longsize Compile run
?MAKE: -pick add $@ %<
?S:d_strtoul:
?S: This variable conditionally defines the HAS_STRTOUL symbol, which
?S: indicates to the C program that the strtoul() routine is available
?S: to provide conversion of strings to unsigned long.
?S:.
?C:HAS_STRTOUL (STRTOUL):
?C: This
 symbol, if defined, indicates that the strtoul routine is
?C: available to provide conversion of strings to unsigned long.
?C:.
?H:#$d_strtoul HAS_STRTOUL /**/
?H:.
?F:!try
: see if strtoul exists
set strtoul d_strtoul
eval $inlibc

case "$d_strtoul" in
"$define")
 $cat <<EOM
```

```
Checking whether your strtoul() works okay...
EOM
 $cat >try.c <<'EOCP'
#include <stdlib.h>
#include <errno.h>
#include <stdio.h>
static int bad = 0;
void check(const char *s, unsigned long eul, int een) {
 unsigned long gul;
 errno = 0;
 gul = strtoul(s, 0, 10);
 if (!((gul == eul) && (errno == een)))
  bad++;
}
int main() {
 check(" 1", 1L, 0);
 check(" 0", 0L, 0);
EOCP
 case "$longsize" in
 8)
    $cat >>try.c <<'EOCP'
 check("18446744073709551615", 18446744073709551615UL, 0);
 check("18446744073709551616", 18446744073709551615UL, ERANGE);
#if 0 /* strtoul() for /^-/ strings is undefined. */
 check("-1", 18446744073709551615UL, 0);
 check("-18446744073709551614", 2, 0);
 check("-18446744073709551615", 1,
 0);
 check("-18446744073709551616", 18446744073709551615UL, ERANGE);
 check("-18446744073709551617", 18446744073709551615UL, ERANGE);
#endif
EOCP
  ;;
 4)
     $cat >>try.c <<'EOCP'
 check("4294967295", 4294967295UL, 0);
 check("4294967296", 4294967295UL, ERANGE);
#if 0 /* strtoul() for /^-/ strings is undefined. */
 check("-1", 4294967295UL, 0);
 check("-4294967294", 2, 0);
 check("-4294967295", 1, 0);
 check("-4294967296", 4294967295UL, ERANGE);
 check("-4294967297", 4294967295UL, ERANGE);
#endif
EOCP
  ;;
 *)
: Should we write these tests to be more portable by sprintf-ing
```

```
: ~0 and then manipulating that char string as input for strtol?
  ;;
 esac
 $cat >>try.c <<'EOCP'
 if (!bad)
  printf("ok\n");
 return 0;
}
EOCP
 set try
 if eval $compile; then
  case "`$run ./try`" in
  ok) echo "Your strtoul() seems to be working okay." ;;
  *) cat <<EOM >&4
Your strtoul() doesn't seem to be working okay.
EOM
     d_strtoul="$undef"
     ;;
  esac
 else
  echo "(I can't seem to compile the test
 program--assuming it doesn't)"
  d_strtoul="$undef"
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_strtoul.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_alarm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_alarm.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:06:58  ram
?RCS: patch32: created by ADO
?RCS:
```

```
?MAKE:d_alarm: Inlibc
?MAKE: -pick add $@ %<
?S:d_alarm:
?S: This variable conditionally defines the HAS_ALARM symbol, which
?S: indicates to the C program that the alarm() routine is available.
?S:.
?C:HAS_ALARM :
?C: This symbol, if defined, indicates that the alarm routine is
?C: available.
?C:.
?H:#$d_alarm
 HAS_ALARM  /**/
?H:.
?LINT:set d_alarm
: see if alarm exists
set alarm d_alarm
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_alarm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_msgget.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msgget.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_msgget: Inlibc
?MAKE: -pick add $@ %<
?S:d_msgget:
?S: This variable conditionally defines the HAS_MSGGET symbol, which
?S: indicates to the C program that the msgget() routine is available.
?S:.
?C:HAS_MSGGET:
?C: This symbol, if defined, indicates that the msgget() routine is
?C: available to get a new message queue.
?C:.
?H:#$d_msgget
```

```
 HAS_MSGGET  /**/
?H:.
?LINT:set d_msgget
: see if msgget exists
set msgget d_msgget
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_msgget.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sbrksmart.U,v 3.0.1.2 1995/01/11 15:35:41 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sbrksmart.U,v $
?RCS: Revision 3.0.1.2  1995/01/11  15:35:41  ram
?RCS: patch45: now sets sbrksmart to undef explicitly when lacking sbrk()
?RCS: patch45: forgot a cast when using return value from sbrk()
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:16:45  ram
?RCS: patch16: created
?RCS:
?MAKE:sbrksmart: cat d_sbrk Compile rm
?MAKE: -pick add $@ %<
?S:sbrksmart:
?S: This variable conditionally defines HAS_SMART_SBRK if the sbrk()
?S: routine honors a negative
 argument to lower the break value.
?S:.
?C:HAS_SMART_SBRK:
?C: This symbol is defined when the sbrk() system call may be used with
?C: a negative argument to lower the break value, therefore releasing
?C: core to the system. If not, you'd probably be better off using the
?C: mmap() system call.
?C:.
?H:#$sbrksmart HAS_SMART_SBRK /**/
?H:.
?T:dumb
?F:!sbrk
: see if sbrk can release core to the kernel
```

```
echo " "
case "$d_sbrk" in
"$define")
 echo "Let's see if your sbrk() is smart enough to release core..." >&4
 $cat > sbrk.c <<'EOC'
#define INC 256  /* Small enough to be less than a page size */

int main()
{
 char *obrk = (char *) sbrk(0);
 char *nbrk;

 nbrk = (char *) sbrk(INC);
 if (nbrk == (char *) -1)
  exit(1); /* Not enough memory */
 if (nbrk != obrk)
  exit(2); /* Unreliable sbrk() */
 nbrk = (char *) sbrk(-INC);
 if (nbrk == (char *) -1)
  exit(3); /* May have understood negative arg as huge positive */
 if (obrk != (char *) sbrk(0))
  exit(4); /* Not smart, definitely */

 exit(0);  /*
 Ok */
}
EOC
 sbrksmart="$undef"
 dumb='-- assuming dumb sbrk().'
 set sbrk
 if eval $compile_ok; then
  ./sbrk >/dev/null 2>&1
  case $? in
  0) sbrksmart="$define"
   echo "Yes, it can be used with negative values." ;;
  1) echo "Sorry, not enough memory $dumb" ;;
  2) echo "No it's not, and besides it seems to be buggy..." ;;
  3) echo "No, it fails with negative values." ;;
  4) echo "Nope, your sbrk() is too dumb." ;;
  *) echo "Err... Unexpected result $dumb" ;;
  esac
 else
  echo "(Could not compile test program $dumb)"
 fi
 ;;
*)
 echo "Since you don't have sbrk(), let's forget about the smart test!"
 sbrksmart="$undef"
```

```
 ;;
esac
$rm -f sbrk sbrk.* core
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/sbrksmart.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libc.U,v $
?RCS: Revision 3.0.1.10  1997/02/28  15:56:48  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: added support for HPUX-10 nm output
?RCS:
?RCS: Revision 3.0.1.9  1995/07/25  14:11:56  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.8  1995/05/12  12:20:47  ram
?RCS: patch54: made sure only most recent version of shared lib is picked
?RCS: patch54: final "nm -p" check now uses xscan and xrun like everybody
?RCS: patch54: can now grok
 linux nm output with lead __IO (ADO)
?RCS: patch54: added support for linux ELF output, using 'W' for alias (ADO)
?RCS:
?RCS: Revision 3.0.1.7  1994/10/29  16:23:40  ram
?RCS: patch36: now looks for shared libraries before anything else (ADO)
?RCS: patch36: added new nm output format (ADO)
?RCS:
?RCS: Revision 3.0.1.6  1994/08/29  16:28:10  ram
?RCS: patch32: added I-type symbols for nm output parsing on Linux
?RCS:
?RCS: Revision 3.0.1.5  1994/06/20  07:03:24  ram
?RCS: patch30: checks are now presented by succession of if/elif
?RCS: patch30: uniformized checks for shared objects with new so symbol
?RCS:
?RCS: Revision 3.0.1.4  1994/05/06  15:06:33  ram
?RCS: patch23: added shared library knowledge (ADO and WED)
?RCS:
```

```
?RCS: Revision 3.0.1.3  1994/01/24  14:12:17  ram
?RCS: patch16: can now export nm_extract as an internal-use only variable
?RCS:
?RCS: Revision 3.0.1.2  1993/09/13  16:09:03  ram
?RCS: patch10: added special handling for Apollo systems (WAD)
?RCS:
?RCS: Revision 3.0.1.1
  1993/08/27  14:40:03  ram
?RCS: patch7: added entry for /usr/shlib/libc.so (OSF/1 machines)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libc libnames +nm_extract: echo n c rm test grep Getfile Myread \
 Oldconfig Loc sed libs incpath libpth ar runnm nm nm_opt nm_so_opt \
 contains xlibpth so osname trnl tr sort uniq _o _a
?MAKE: -pick add $@ %<
?S:libc:
?S: This variable contains the location of the C library.
?S:.
?S:libnames:
?S: The constructed list of library names.  Normally empty, but hint files
?S: may set this for later perusal by Configure.
?S:.
?S:nm_extract:
?S: This variable holds the name of the extraction command used to process
?S: the output of nm and yield the list of defined symbols. It is used
?S: internally by Configure.
?S:.
?T:thislib try libnames xxx xscan xrun thisname com tans file
?F:!libnames !libc.tmp !tmp.imp
?LINT:change nm_opt runnm
?INIT:libnames="
: Figure out where the libc is located
case
 "$runnm" in
true)
?X: indentation is wrong on purpose--RAM
: get list of predefined functions in a handy place
echo " "
case "$libc" in
") libc=unknown
 case "$libs" in
 *-lc_s*) libc=`./loc libc_s$_a $libc $libpth`
 esac
 ;;
esac
case "$libs" in
```

```
") ;;
*)  for thislib in $libs; do
 case "$thislib" in
 -lc|-lc_s)
  : Handle C library specially below.
  ;;
 -l*)
  thislib=`echo $thislib | $sed -e 's/^-l//'`
  if try=`./loc lib$thislib.$so.'*' X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib.$so X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib$_a X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc $thislib$_a X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc $thislib X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc Slib$thislib$_a X $xlibpth`; $test -f "$try"; then
   :
  else
   try=''
  fi
  libnames="$libnames $try"
  ;;
 *) libnames="$libnames $thislib"
 ;;
 esac
 done
 ;;
esac
?X:
?X: Some systems (e.g. DG/UX) use "environmental" links, which make the test
?X: -f fail. Ditto for symbolic links. So in order to reliably check the
?X: existence of a file, we use test -r. It will still fail with DG/UX links
?X: though, but at least it will detect symbolic links. At some strategic
?X: points, we make use of (test -h), using a sub-shell in case builtin test
?X: does not implement the -h check for symbolic links. This makes it
?X: possible to preset libc in a hint file for instance and have it show up
?X: as-is in the question.
?X:
xxx=normal
case "$libc" in
unknown)
?X:
?X: The sed below transforms .so.9 .so.12 into something like .so.0009 .so.0012,
```

```
?X: then sorts on it to allow keeping .so.12 instead of .so.9 as the latest
?X: up-to-date library. The initial filename (before sed munging, saved in hold
?X: space via 'h') is appended via 'G' before sorting, then the leading munged
?X: part is removed after sorting. Nice efficient work
 from Tye McQueen.
?X: The initial blurfl is here to prevent the trailing pipe from producing an
?X: empty string, causing Configure to output all its set variables!
?X:
 set /lib/libc.$so
 for xxx in $libpth; do
  $test -r $1 || set $xxx/libc.$so
  : The messy sed command sorts on library version numbers.
  $test -r $1 || \
   set `echo blurfl; echo $xxx/libc.$so.[0-9]* | \
   tr ' ' $trnl | egrep -v '\.[A-Za-z]*$' | $sed -e '
    h
    s/[0-9][0-9]*/0000&/g
    s/0*\([0-9][0-9][0-9][0-9][0-9]\)/\1/g
    G
    s/\n/ /' | \
    $sort | $sed -e 's/^.* //'`
  eval set \$$#
 done
 $test -r $1 || set /usr/ccs/lib/libc.$so
 $test -r $1 || set /lib/libsys_s$_a
 ;;
*)
?X: ensure the test below for the (shared) C library will fail
 set blurfl
 ;;
esac
if $test -r "$1"; then
 echo "Your (shared) C library seems to be in $1."
 libc="$1"
elif $test -r /lib/libc && $test -r /lib/clib; then
?X:
?X: Apollo has its C library in /lib/clib AND /lib/libc
?X: not to mention its math library in /lib/syslib...
?X:
 echo
 "Your C library seems to be in both /lib/clib and /lib/libc."
 xxx=apollo
 libc='/lib/clib /lib/libc'
 if $test -r /lib/syslib; then
  echo "(Your math library is in /lib/syslib.)"
?X: Put syslib in libc -- not quite right, but won't hurt
  libc="$libc /lib/syslib"
 fi
```

```
elif $test -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
 echo "Your C library seems to be in $libc, as you said before."
?X: For mips, and...
elif $test -r $incpath/usr/lib/libc$_a; then
 libc=$incpath/usr/lib/libc$_a;
 echo "Your C library seems to be in $libc.  That's fine."
elif $test -r /lib/libc$_a; then
 libc=/lib/libc$_a;
 echo "Your C library seems to be in $libc.  You're normal."
else
 if tans=`./loc libc$_a blurfl/dyick $libpth`; $test -r "$tans"; then
  :
 elif tans=`./loc libc blurfl/dyick $libpth`; $test -r "$tans"; then
  libnames="$libnames "`./loc clib blurfl/dyick $libpth`
 elif tans=`./loc clib blurfl/dyick $libpth`; $test -r "$tans"; then
  :
 elif tans=`./loc Slibc$_a blurfl/dyick
 $xlibpth`; $test -r "$tans"; then
  :
 elif tans=`./loc Mlibc$_a blurfl/dyick $xlibpth`; $test -r "$tans"; then
  :
 else
  tans=`./loc Llibc$_a blurfl/dyick $xlibpth`
 fi
 if $test -r "$tans"; then
  echo "Your C library seems to be in $tans, of all places."
  libc=$tans
 else
  libc='blurfl'
 fi
fi
if $test $xxx = apollo -o -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
 dflt="$libc"
 cat <<EOM

If the guess above is wrong (which it might be if you're using a strange
compiler, or your machine supports multiple models), you can override it here.

EOM
else
 dflt="
 echo $libpth | $tr ' ' $trnl | $sort | $uniq > libpath
 cat >&4 <<EOM
I can't seem to find your C library.  I've looked in the following places:

EOM
 $sed 's/^/ /' libpath
 cat <<EOM
```

```
None of these seems to contain your C library. I need to get its name...

EOM
fi
fn=f
rp='Where is your C library?'
. ./getfile
libc="$ans"

echo " "
echo $libc $libnames | $tr ' ' $trnl | $sort | $uniq > libnames
set X `cat libnames`
shift
xxx=files
case
 $# in 1) xxx=file; esac
echo "Extracting names from the following $xxx for later perusal:" >&4
echo " "
$sed 's/^/ /' libnames >&4
echo " "
$echo $n "This may take a while...$c" >&4

?X:
?X: Linux may need the special Dynamic option to nm for shared libraries.
?X: In general, this is stored in the nm_so_opt variable.
?X: Unfortunately, that option may be fatal on non-shared libraries.
?X:
for file in $*; do
 case $file in
 *$so*) $nm $nm_so_opt $nm_opt $file 2>/dev/null;;
 *) $nm $nm_opt $file 2>/dev/null;;
 esac
done >libc.tmp

$echo $n ".$c"
?X:
?X: To accelerate processing, we look at the correct 'sed' command
?X: by using a small subset of libc.tmp, i.e. fprintf function.
?X: When we know which sed command to use, do the name extraction
?X:
$grep fprintf libc.tmp > libc.ptf
?X:
?X: In order to enhance readability and save some space, we define
?X: some variables that will be "eval"ed.
?X:
xscan='eval "<libc.ptf $com >libc.list"; $echo $n ".$c" >&4'
xrun='eval
```

```
 "<libc.tmp $com >libc.list"; echo "done." >&4'
?X: BSD-like output, I and W types added for Linux
?X: Some versions of Linux include a leading __IO in the symbol name.
?X: HPUX10 reportedly has trailing spaces, though I'm surprised it has
?X: BSD-like output.  (AD).
xxx='[ADTSIW]'
if com="$sed -n -e 's/__IO//' -e 's/^.* $xxx  *_[_.]*//p' -e 's/^.* $xxx  *//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: SYSV-like output
elif com="$sed -n -e 's/^__*//' -e 's/^\([a-zA-Z_0-9$]*\).*xtern.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e '/|UNDEF/d' -e '/FUNC..GL/s/^.*|__*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.* D __*//p' -e 's/^.* D //p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^_//' -e 's/^\([a-zA-Z_0-9]*\).*xtern.*text.*/\1/p'";\
 eval
 $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$grep '|' | $sed -n -e '/|COMMON/d' -e '/|DATA/d' \
    -e '/ file/d' -e 's/^\([^  ]*\).*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|//p' -e 's/^.*|FUNC |WEAK .*|//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: mips nm output (sysV)
elif com="$sed -n -e 's/^__//' -e '/|Undef/d' -e '/|Proc/s/ .*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|Proc .*|Text *| *//p'";\
 eval $xscan;\
```

```
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e '/Def. Text/s/.* \([^ ]*\)\$/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null
 2>&1; then
  eval $xrun
?X: OS/2 nm output
elif com="$sed -n -e 's/^[-0-9a-f ]*_\(.*\)=.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/.*\.text n\ \ \ \.//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: AIX nm output
elif com="sed -n -e 's/^__.*//' -e 's/[       ]*D[    ]*[0-9]*.*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
else
 $nm -p $* 2>/dev/null >libc.tmp
 $grep fprintf libc.tmp > libc.ptf
 if com="$sed -n -e 's/^.* [ADTSIW]  *_[_.]*//p' -e 's/^.* [ADTSIW] //p'";\
  eval $xscan; $contains '^fprintf$' libc.list >/dev/null 2>&1
 then
  nm_opt='-p'
  eval $xrun
 else
  echo " "
  echo "$nm didn't seem to work right. Trying $ar instead..." >&4
  com="
  if $ar t $libc > libc.tmp && \
   $contains '^fprintf$' libc.tmp >/dev/null 2>&1
  then
   for thisname in $libnames $libc; do
    $ar t $thisname >>libc.tmp
   done
   $sed
 -e "s/\\$_o\$//" < libc.tmp > libc.list
   echo "Ok." >&4
  elif test "X$osname" = "Xos2" && $ar tv $libc > libc.tmp; then
?X: Repeat libc to extract forwarders to DLL entries too
   for thisname in $libnames $libc; do
    $ar tv $thisname >>libc.tmp
?X: Revision 50 of EMX has bug in ar: it will not extract forwarders
?X: to DLL entries.  Use emximp which will extract exactly them.
```

```
    emximp -o tmp.imp $thisname \
        2>/dev/null && \
        $sed -e 's/^\([_a-zA-Z0-9]*\) .*$/\1/p' \
        < tmp.imp >>libc.tmp
    $rm -f tmp.imp
   done
   $sed -e "s/\\$_o\$//" -e 's/^ \+//' < libc.tmp > libc.list
   echo "Ok." >&4
  else
   echo "$ar didn't seem to work right." >&4
   echo "Maybe this is a Cray...trying bld instead..." >&4
   if
    bld t $libc | \
     $sed -e 's/.*\///' -e "s/\\$_o:.*\$//" > libc.list &&
    $test -s libc.list
   then
    for thisname in $libnames; do
     bld t $libnames | \
     $sed -e 's/.*\///' -e "s/\\$_o:.*\$//" >>libc.list
     $ar t $thisname >>libc.tmp
    done
    echo
 "Ok." >&4
   else
    echo "That didn't work either." >&4
    echo "No problem, I'll be compiling test programs then..." >&4
    runnm=false
   fi
  fi
 fi
fi
nm_extract="$com"
if $test -f /lib/syscalls.exp; then
 echo " "
 echo "Also extracting names from /lib/syscalls.exp for good ole AIX..." >&4
 $sed -n 's/^\([^  ]*\)[  ]*syscall[0-9]*[  ]*$/\1/p' \
  /lib/syscalls.exp >>libc.list
fi
?X: remember, indentation is wrong on purpose--RAM
;;
esac
$rm -f libnames libpath
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/libc.U
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```
?RCS: $Id: inc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: inc.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:inc incexp: Loc Oldconfig Getfile usrinc
?MAKE: -pick add $@ %<
?S:inc:
?S: This variable holds the name of the directory in which the user wants
?S: to put public header files for the package in question.  It is most
?S: often a local directory such as /usr/local/include.
?S:.
?S:incexp:
?S: This is the same as the inc variable, but is filename
 expaned
?S: at configuration time for convenient use in your makefiles.
?S:.
: determine where public header files go
case "$inc" in
")
 dflt=`./loc . "." /usr/local/include /usr/include/local $usrinc`
 ;;
*)  dflt="$inc"
 ;;
esac
fn=d~
rp='Where do you want to put the public header files?'
. ./getfile
inc="$ans"
incexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/inc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getnetbyname_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
```

```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getnetbyname_r getnetbyname_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getnetbyname_r:
?S: This variable conditionally defines the HAS_GETNETBYNAME_R symbol,
?S: which indicates to the C program that the getnetbyname_r()
?S: routine is available.
?S:.
?S:getnetbyname_r_proto:
?S: This variable encodes the prototype of getnetbyname_r.
?S: It is zero if d_getnetbyname_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getnetbyname_r
?S: is defined.
?S:.
?C:HAS_GETNETBYNAME_R:
?C: This symbol, if defined, indicates that
 the getnetbyname_r routine
?C: is available to getnetbyname re-entrantly.
?C:.
?C:GETNETBYNAME_R_PROTO:
?C: This symbol encodes the prototype of getnetbyname_r.
?C: It is zero if d_getnetbyname_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getnetbyname_r
?C: is defined.
?C:.
?H:#$d_getnetbyname_r HAS_GETNETBYNAME_R /**/
?H:#define GETNETBYNAME_R_PROTO $getnetbyname_r_proto /**/
?H:.
?T:try hdrs d_getnetbyname_r_proto
: see if getnetbyname_r exists
set getnetbyname_r d_getnetbyname_r
eval $inlibc
case "$d_getnetbyname_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getnetbyname_r_proto:$usethreads" in
 ":define") d_getnetbyname_r_proto=define
  set d_getnetbyname_r_proto getnetbyname_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getnetbyname_r_proto" in
 define)
```

```
 case "$getnetbyname_r_proto" in
 "|0) try='int getnetbyname_r(const char*, struct netent*, char*, size_t, struct netent**, int*);'
 ./protochk "$extern_C
 $try" $hdrs && getnetbyname_r_proto=I_CSBWRE ;;
 esac
 case "$getnetbyname_r_proto" in
 "|0) try='int getnetbyname_r(const char*, struct netent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getnetbyname_r_proto=I_CSBI ;;
 esac
 case "$getnetbyname_r_proto" in
 "|0) try='struct netent* getnetbyname_r(const char*, struct netent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getnetbyname_r_proto=S_CSBI ;;
 esac
 case "$getnetbyname_r_proto" in
 "|0) try='int getnetbyname_r(const char*, struct netent*, struct netent_data*);'
 ./protochk "$extern_C $try" $hdrs && getnetbyname_r_proto=I_CSD ;;
 esac
 case "$getnetbyname_r_proto" in
 "|0) d_getnetbyname_r=undef
  getnetbyname_r_proto=0
  echo "Disabling getnetbyname_r, cannot determine prototype." >&4 ;;
 * ) case "$getnetbyname_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getnetbyname_r_proto="REENTRANT_PROTO_$getnetbyname_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo
 "getnetbyname_r has no prototype, not using it." >&4 ;;
  esac
  d_getnetbyname_r=undef
  getnetbyname_r_proto=0
  ;;
 esac
 ;;
*) getnetbyname_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getnetbyname_r.U
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```
?RCS:
?MAKE:d_ilogb: Inlibc
?MAKE: -pick add $@ %<
?S:d_ilogb:
?S: This variable conditionally defines the HAS_ILOGB symbol, which
?S: indicates to the C program that the ilogb() routine is available
?S: for extracting the exponent of double x as a signed integer.
?S:.
?C:HAS_ILOGB:
?C: This symbol, if defined, indicates that the ilogb routine is
?C: available to get integer exponent of a floating-point value.
?C:.
?H:#$d_ilogb HAS_ILOGB  /**/
?H:.
?LINT:set d_ilogb
: see if ilogb exists
set ilogb d_ilogb
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_ilogb.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_vfork.U,v $
?RCS: Revision 3.0.1.6  1994/08/29  16:18:21  ram
?RCS: patch32: set default to 'y' the first time
?RCS:
?RCS: Revision 3.0.1.5  1994/06/20  06:59:14  ram
?RCS: patch30: usevfork was not always properly set
?RCS:
?RCS: Revision 3.0.1.4  1994/05/13  15:20:56  ram
?RCS: patch27: modified to avoid spurious Whoa warnings (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/05/06  14:59:09  ram
?RCS: patch23: now explicitly ask whether vfork() should be used (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1993/10/16
```

```
  13:49:39  ram
?RCS: patch12: added magic for vfork()
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:06:57  ram
?RCS: patch10: removed automatic remapping of vfork on fork (WAD)
?RCS: patch10: added compatibility code for older config.sh (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_vfork usevfork: Inlibc Myread Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_vfork:
?S: This variable conditionally defines the HAS_VFORK symbol, which
?S: indicates the vfork() routine is available.
?S:.
?S:usevfork:
?S: This variable is set to true when the user accepts to use vfork.
?S: It is set to false when no vfork is available or when the user
?S: explicitly requests not to use vfork.
?S:.
?C:HAS_VFORK (VFORK):
?C: This symbol, if defined, indicates that vfork() exists.
?C:.
?H:#$d_vfork HAS_VFORK /**/
?H:.
?M:vfork: HAS_VFORK
?M:#ifndef HAS_VFORK
?M:#define vfork fork
?M:#endif
?M:.
?LINT:set d_vfork
: see if there is a vfork
val=''
set
 vfork val
eval $inlibc

: Ok, but do we want to use it. vfork is reportedly unreliable in
: perl on Solaris 2.x, and probably elsewhere.
case "$val" in
$define)
 echo " "
 case "$usevfork" in
 false) dflt='n';;
 *) dflt='y';;
 esac
 rp="Some systems have problems with vfork().  Do you want to use it?"
```

```
 . ./myread
 case "$ans" in
 y|Y) ;;
 *)
  echo "Ok, we won't use vfork()."
  val="$undef"
  ;;
 esac
 ;;
esac
?X:
?X: Only set it when final value is known to avoid spurious Whoas
?X: Then set usevfork accordingly to the current value, for next run
?X:
set d_vfork
eval $setvar
case "$d_vfork" in
$define) usevfork='true';;
*) usevfork='false';;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_vfork.U
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```
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_pthread_attr_setscope: Inlibc
?MAKE: -pick add $@ %<
?S:d_pthread_attr_setscope:
?S: This variable conditionally defines HAS_PTHREAD_ATTR_SETSCOPE if
?S: pthread_attr_setscope() is available to set the contention scope
?S: attribute of a thread attribute object.
?S:.
?C:HAS_PTHREAD_ATTR_SETSCOPE:
?C: This symbol, if defined, indicates that the pthread_attr_setscope
?C: system call is available to set the contention scope attribute of
?C: a thread attribute object.
?C:.
```

```
?H:#$d_pthread_attr_setscope HAS_PTHREAD_ATTR_SETSCOPE  /**/
?H:.
?LINT:set
 d_pthread_attr_setscope
: see if pthread_attr_setscope exists
set pthread_attr_setscope d_pthread_attr_setscope
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_pthread_attr_ss.U
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```
?RCS: $Id: i_dirent.U,v 3.0.1.4 1994/10/29 16:20:01 ram Exp $
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: i_dirent.U,v $
?RCS: Revision 3.0.1.4  1994/10/29  16:20:01  ram
?RCS: patch36: failed scanning for 'd_namlen' with missing <dirent.h> (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:01:25  ram
?RCS: patch30: added direntrytype for hints, merely for NeXT (ADO)
?RCS: patch30: now checks for both struct dirent and direct (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:22:37  ram
?RCS: patch27: new variable direntrytype for proper type setting (ADO)
?RCS:
?RCS:
 Revision 3.0.1.1  1994/01/24  14:11:15  ram
?RCS: patch16: added new Direntry_t pseudo-type for directory entries
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit looks whether there is a dirent system or not
?X:
?MAKE:i_dirent d_dirnamlen direntrytype: test contains Setvar \
 Myread Findhdr cppstdin cppflags cppminus rm_try
?MAKE: -pick add $@ %<
?S:i_dirent:
```

```
?S: This variable conditionally defines I_DIRENT, which indicates
?S: to the C program that it should include <dirent.h>.
?S:.
?S:d_dirnamlen:
?S: This variable conditionally defines DIRNAMLEN, which indicates
?S: to the C program that the length of directory entry names is
?S: provided by a d_namelen field.
?S:.
?S:direntrytype:
?S: This symbol is set to 'struct direct' or 'struct dirent' depending on
?S: whether dirent is available or not. You should use this pseudo type to
?S: portably declare your directory entries.
?S:.
?C:I_DIRENT:
?C: This symbol,
 if defined, indicates to the C program that it should
?C: include <dirent.h>. Using this symbol also triggers the definition
?C: of the Direntry_t define which ends up being 'struct dirent' or
?C: 'struct direct' depending on the availability of <dirent.h>.
?C:.
?C:DIRNAMLEN:
?C: This symbol, if defined, indicates to the C program that the length
?C: of directory entry names is provided by a d_namlen field.  Otherwise
?C: you need to do strlen() on the d_name field.
?C:.
?C:Direntry_t:
?C: This symbol is set to 'struct direct' or 'struct dirent' depending on
?C: whether dirent is available or not. You should use this pseudo type to
?C: portably declare your directory entries.
?C:.
?H:#$i_dirent I_DIRENT  /**/
?H:#$d_dirnamlen DIRNAMLEN /**/
?H:?%<:@if I_DIRENT && Direntry_t
?H:?%<:#define Direntry_t $direntrytype
?H:?%<:@end
?H:.
?T:xinc guess1 guess2
?LINT:set i_dirent d_dirnamlen
: see if this is a dirent system
echo " "
if xinc=`./findhdr dirent.h`; $test "$xinc"; then
 val="$define"
 echo
 "<dirent.h> found." >&4
else
 val="$undef"
 if xinc=`./findhdr sys/dir.h`; $test "$xinc"; then
  echo "<sys/dir.h> found." >&4
```

```
  echo " "
 else
  xinc=`./findhdr sys/ndir.h`
 fi
 echo "<dirent.h> NOT found." >&4
fi
set i_dirent
eval $setvar

?X: Use struct dirent or struct direct?   If we're using dirent.h,
?X: it's probably struct dirent, but apparently not always.
?X: Assume $xinc still contains the name of the header file we're using.
@if direntrytype || Direntry_t
: Look for type of directory structure.
echo " "
$cppstdin $cppflags $cppminus < "$xinc" > try.c

case "$direntrytype" in
"|' ')
 case "$i_dirent" in
 $define) guess1='struct dirent' ;;
 *) guess1='struct direct'  ;;
 esac
 ;;
*) guess1="$direntrytype"
 ;;
esac

case "$guess1" in
'struct dirent') guess2='struct direct' ;;
*) guess2='struct dirent' ;;
esac

if $contains "$guess1" try.c >/dev/null 2>&1; then
 direntrytype="$guess1"
 echo "Your directory entries are $direntrytype." >&4
elif $contains "$guess2"
 try.c >/dev/null 2>&1; then
 direntrytype="$guess2"
 echo "Your directory entries seem to be $direntrytype." >&4
else
 echo "I don't recognize your system's directory entries." >&4
 rp="What type is used for directory entries on this system?"
 dflt="$guess1"
 . ./myread
 direntrytype="$ans"
fi
$rm_try
```

```
@end
@if d_dirnamlen || DIRNAMLEN
: see if the directory entry stores field length
echo " "
$cppstdin $cppflags $cppminus < "$xinc" > try.c
if $contains 'd_namlen' try.c >/dev/null 2>&1; then
 echo "Good, your directory entry keeps length information in d_namlen." >&4
 val="$define"
else
 echo "Your directory entry does not know about the d_namlen field." >&4
 val="$undef"
fi
set d_dirnamlen
eval $setvar
$rm_try

@end
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_dirent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libnm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libnm.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:08:26  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libnm: test Loc libpth _a
?MAKE: -pick add $@ %<
?S:libnm:
?S: This variable contains the argument to pass to the loader in order
?S: to get the new math library routines.  If there is no new math
?S: library, it is null.
?S:.
```

```
?T:ans
?O:
 use libswanted='-lnm' instead (see libs.U).
: see if we should include -lnm
echo " "
if $test -r /usr/lib/libnm$_a || $test -r /usr/local/lib/libnm$_a ; then
 echo "New math library found." >&4
 libnm='-lnm'
else
 ans=`./loc libnm$_a x $libpth`
 case "$ans" in
 x)
  echo "No nm library found--the normal math library will have to do." >&4
  libnm=''
  ;;
 *)
  echo "New math library found in $ans." >&4
  libnm="$ans"
  ;;
 esac
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/libnm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_dlopen.U,v 3.0.1.2 1995/07/25 13:52:56 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_dlopen.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  13:52:56  ram
?RCS: patch56: force compile-link test since symbol might lie in crt0.o (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:34  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_dlopen: Inlibc runnm d_cplusplus ccflags gccversion
?MAKE: -pick add $@ %<
```

```
?S:d_dlopen:
?S: This variable conditionally defines the HAS_DLOPEN
 symbol, which
?S: indicates to the C program that the dlopen() routine is available.
?S:.
?C:HAS_DLOPEN :
?C: This symbol, if defined, indicates that the dlopen routine is
?C: available.
?C:.
?H:#$d_dlopen HAS_DLOPEN  /**/
?H:.
?T: xxx_runnm
?T: xxx_ccflags
?LINT:set d_dlopen
?X: We don't permanently change runnm and ccflags, but we do temporarily.
?LINT: change runnm
?LINT: change ccflags
: see if dlopen exists
?X: On NetBSD and FreeBSD, dlopen is available, but it is in
?X: /usr/lib/crt0.o, not in any of the libraries.  Therefore, do not
?X: use the nm extraction, but use a real compile and link test instead.
xxx_runnm="$runnm"
xxx_ccflags="$ccflags"
runnm=false
: with g++ one needs -shared to get is-in-libc to work for dlopen
case "$gccversion" in
") ;;
*Clang*) ;;
*) case "$d_cplusplus" in
 "$define") ccflags="$ccflags -shared" ;;
 esac
 ;;
esac
set dlopen d_dlopen
eval $inlibc
runnm="$xxx_runnm"
ccflags="$xxx_ccflags"
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_dlopen.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_acosh: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_acosh:
?S: This variable conditionally defines the HAS_ACOSH symbol, which
?S: indicates to the C program that the acosh() routine is available.
?S:.
?C:HAS_ACOSH:
?C: This symbol, if defined, indicates that the acosh routine is
?C: available to do the inverse hyperbolic cosine function.
?C:.
?H:#$d_acosh HAS_ACOSH  /**/
?H:.
?LINT:set d_acosh
: see if acosh exists
set acosh d_acosh
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_acosh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setgrent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_setgrent_r setgrent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_grp extern_C
?MAKE: -pick add $@ %<
?S:d_setgrent_r:
?S: This variable conditionally defines the HAS_SETGRENT_R symbol,
?S: which indicates to the C program that the setgrent_r()
?S: routine is available.
?S:.
?S:setgrent_r_proto:
?S: This variable encodes the prototype of setgrent_r.
?S: It is zero if d_setgrent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setgrent_r
?S: is defined.
?S:.
?C:HAS_SETGRENT_R:
?C: This symbol, if defined, indicates that the setgrent_r routine
?C: is available to
 setgrent re-entrantly.
?C:.
?C:SETGRENT_R_PROTO:
```

```
?C: This symbol encodes the prototype of setgrent_r.
?C: It is zero if d_setgrent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setgrent_r
?C: is defined.
?C:.
?H:#$d_setgrent_r HAS_SETGRENT_R /**/
?H:#define SETGRENT_R_PROTO $setgrent_r_proto /**/
?H:.
?T:try hdrs d_setgrent_r_proto
: see if setgrent_r exists
set setgrent_r d_setgrent_r
eval $inlibc
case "$d_setgrent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_grp grp.h"
 case "$d_setgrent_r_proto:$usethreads" in
 ":define") d_setgrent_r_proto=define
  set d_setgrent_r_proto setgrent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_setgrent_r_proto" in
 define)
 case "$setgrent_r_proto" in
 "|0) try='int setgrent_r(FILE**);'
 ./protochk "$extern_C $try" $hdrs && setgrent_r_proto=I_H ;;
 esac
 case "$setgrent_r_proto" in
 "|0) try='void setgrent_r(FILE**);'
 ./protochk "$extern_C $try" $hdrs && setgrent_r_proto=V_H ;;
 esac
 case "$setgrent_r_proto"
 in
 "|0) d_setgrent_r=undef
  setgrent_r_proto=0
  echo "Disabling setgrent_r, cannot determine prototype." >&4 ;;
 * ) case "$setgrent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) setgrent_r_proto="REENTRANT_PROTO_$setgrent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "setgrent_r has no prototype, not using it." >&4 ;;
  esac
  d_setgrent_r=undef
  setgrent_r_proto=0
```

```
  ;;
 esac
 ;;
*) setgrent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_setgrent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: inc_version_list.U,v $
?RCS:
?RCS: Copyright (c) 2000 Andy Dougherty
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: inc_version_list.U,v $
?RCS:
?MAKE:inc_version_list inc_version_list_init d_inc_version_list: cat sed \
 Getfile perl5 version api_versionstring rm Myread archname \
 prefix sitelib_stem exe_ext
?MAKE: -pick add $@ %<
?Y:TOP
?S:inc_version_list:
?S: This variable specifies the list of subdirectories in over
?S: which perl.c:incpush() and lib/lib.pm will automatically
?S: search when adding directories to @INC.  The elements in
?S: the list are separated by spaces.  This is only useful
?S: if
 you have a perl library directory tree structured like the
?S: default one.  See INSTALL for how this works.  The versioned
?S: site_perl directory was introduced in 5.005, so that is the
?S: lowest possible value.
?S:
?S: This list includes architecture-dependent directories back to
?S: version $api_versionstring (e.g. 5.5.640) and
?S: architecture-independent directories all the way back to
?S: 5.005.
?S:.
?S:inc_version_list_init:
?S: This variable holds the same list as inc_version_list, but
?S: each item is enclosed in double quotes and separated by commas,
```

```
?S: suitable for use in the PERL_INC_VERSION_LIST initialization.
?S:.
?S:d_inc_version_list:
?S: This variable conditionally defines PERL_INC_VERSION_LIST.
?S: It is set to undef when PERL_INC_VERSION_LIST is empty.
?S:.
?C:PERL_INC_VERSION_LIST:
?C: This variable specifies the list of subdirectories in over
?C: which perl.c:incpush() and lib/lib.pm will automatically
?C: search when adding directories to @INC, in a format suitable
?C: for
 a C initialization string.  See the inc_version_list entry
?C: in Porting/Glossary for more details.
?C:.
?H:#$d_inc_version_list PERL_INC_VERSION_LIST $inc_version_list_init  /**/
?H:.
?T:stem
: Determine list of previous versions to include in @INC
$cat > getverlist <<EOPL
#!$perl5
use strict;
use warnings;
use File::Basename;
my \$api_versionstring = "$api_versionstring";
my \$version = "$version";
my \$stem = "$sitelib_stem";
my \$archname = "$archname";
EOPL
 $cat >> getverlist <<'EOPL'
# The list found is stored twice for each entry: the original name, and
# the binary broken down version into pack "s>s>s>", so sorting is easy
# and unambiguous.  This will work for all versions that have a maximum
# of three digit per group separate by '.'s or '_'s. Names are extended
# with ".0.0" to ensure at least three elements for the pack.
#                                -- H.Merijn Brand (m)'06 23-10-2006

my @inc_version_list;
my @candidates;
# XXX Redo to do opendir/readdir?
if
 (-d $stem) {
   chdir($stem);
   ;@candidates = map {
 [ $_, pack "s>s>s>", split m/[._]/, "$_.0.0" ] } glob("5.*");
   ;@candidates = sort { $a->[1] cmp $b->[1]} @candidates;
}
else {
   ;@candidates = ();
```

```
}

my ($pversion, $aversion, $vsn5005) = map {
   pack "s>s>s>", split m/[._]/, "$_.0.0" } $version, $api_versionstring, "5.005";
foreach my $d (@candidates) {
   if ($d->[1] lt $pversion) {
 if ($d->[1] ge $aversion) {
     unshift(@inc_version_list, grep { -d } $d->[0]."/$archname", $d->[0]);
 }
 elsif ($d->[1] ge $vsn5005) {
     unshift(@inc_version_list, grep { -d } $d->[0]);
 }
   }
   else {
 # Skip newer version.  I.e. don't look in
 # 5.7.0 if we're installing 5.6.1.
   }
}

if (@inc_version_list) {
   print join(' ', @inc_version_list);
}
else {
   # Blank space to preserve value for next Configure run.
   print " ";
}
EOPL
chmod +x getverlist
case "$inc_version_list" in
") if test -x "$perl5$exe_ext"; then
  dflt=`$perl5 getverlist`
 else
  dflt='none'
 fi
 ;;
$undef)
 dflt='none' ;;
?X:     Configure -Dinc_version_list='5.6.0/$archname 5.6.0' ...
*)  eval dflt=\"$inc_version_list\" ;;
esac
case "$dflt" in
"|' ') dflt=none ;;
esac
case "$dflt" in
5.005) dflt=none ;;
esac
$cat <<EOM
```

```
In order to ease the process of upgrading, this version of perl
can be configured to use modules built and installed with earlier
versions of perl that were installed under $prefix.  Specify here
the list of earlier versions that this version of perl should check.
If Configure detected no earlier versions of perl installed under
$prefix, then the list will be empty.  Answer 'none' to tell perl
to not search earlier versions.

The default should almost always be sensible, so if you're not sure,
just accept the default.
EOM

rp='List of earlier versions to include in @INC?'
. ./myread
case "$ans" in
[Nn]one|""|' '|$undef) inc_version_list=' ' ;;
*) inc_version_list="$ans" ;;
esac
case "$inc_version_list" in
""|' ')
 inc_version_list_init='0'
 d_inc_version_list="$undef"
 ;;
*) inc_version_list_init=`echo
 $inc_version_list |
  $sed -e 's/^/"/' -e 's/ /","/g' -e 's/$/",0/'`
 d_inc_version_list="$define"
 ;;
esac
$rm -f getverlist
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/inc_version_list.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: myhostname.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:15:55  ram
```

```
?RCS: patch61: improved hostname lookup by using ypmatch when NIS is used
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:25:43  ram
?RCS: patch36: call ./xenix explicitly instead of relying on PATH
?RCS: patch36: now uses new Tr unit to convert to/from lowercase
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:06:20  ram
?RCS: patch30: now a little more clever for domain name guessing
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:18  ram
?RCS:
 Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:myhostname phostname mydomain: contains sed test Myread Oldconfig \
 Guess Loc awk echo sort uniq +usrinc rm hostcat Tr osname
?MAKE: -pick add $@ %<
?S:myhostname (hostname):
?S: This variable contains the eventual value of the MYHOSTNAME symbol,
?S: which is the name of the host the program is going to run on.
?S: The domain is not kept with hostname, but must be gotten from mydomain.
?S: The dot comes with mydomain, and need not be supplied by the program.
?S:.
?S:mydomain:
?S: This variable contains the eventual value of the MYDOMAIN symbol,
?S: which is the domain of the host the program is going to run on.
?S: The domain must be appended to myhostname to form a complete host name.
?S: The dot comes with mydomain, and need not be supplied by the program.
?S:.
?S:phostname:
?S: This variable contains the eventual value of the PHOSTNAME symbol,
?S: which is a command that can be fed to popen() to get the host name.
?S: The program
 should probably not presume that the domain is or isn't
?S: there already.
?S:.
?C:MYHOSTNAME (HOSTNAME):
?C: This symbol contains name of the host the program is going to run on.
?C: The domain is not kept with hostname, but must be gotten from MYDOMAIN.
?C: The dot comes with MYDOMAIN, and need not be supplied by the program.
?C: If gethostname() or uname() exist, MYHOSTNAME may be ignored. If MYDOMAIN
?C: is not used, MYHOSTNAME will hold the name derived from PHOSTNAME.
?C:.
?C:MYDOMAIN:
?C: This symbol contains the domain of the host the program is going to
?C: run on.  The domain must be appended to HOSTNAME to form a complete
?C: host name.  The dot comes with MYDOMAIN, and need not be supplied by
?C: the program.  If the host name is derived from PHOSTNAME, the domain
?C: may or may not already be there, and the program should check.
```

```
?C:.
?H:#define MYHOSTNAME "$myhostname"  /**/
?H:#define MYDOMAIN "$mydomain"  /**/
?H:.
?T:cont i tans tmp_re file
: now get the host name
echo
 " "
echo "Figuring out host name..." >&4
case "$myhostname" in
") cont=true
 echo 'Maybe "hostname" will work...'
 if tans=`sh -c hostname 2>&1` ; then
  myhostname=$tans
  phostname=hostname
  cont=''
 fi
 ;;
*) cont='';;
esac
if $test "$cont"; then
 if ./xenix; then
  echo 'Oh, dear.  Maybe "/etc/systemid" is the key...'
  if tans=`cat /etc/systemid 2>&1` ; then
   myhostname=$tans
   phostname='cat /etc/systemid'
   echo "Whadyaknow.  Xenix always was a bit strange..."
   cont=''
  fi
 elif $test -r /etc/systemid; then
  echo "(What is a non-Xenix system doing with /etc/systemid?)"
 fi
fi
if $test "$cont"; then
 echo 'No, maybe "uuname -l" will work...'
 if tans=`sh -c 'uuname -l' 2>&1` ; then
  myhostname=$tans
  phostname='uuname -l'
 else
  echo 'Strange.  Maybe "uname -n" will work...'
  if tans=`sh -c 'uname -n' 2>&1` ; then
   myhostname=$tans
   phostname='uname -n'
  else
   echo 'Oh well, maybe I can mine it out of whoami.h...'
   if tans=`sh -c $contains' sysname $usrinc/whoami.h'
 2>&1` ; then
    myhostname=`echo "$tans" | $sed 's/^.*"\(.*\)"/\1/'`
```

```
    phostname="sed -n -e ""/sysname/s/^.*\"\\(.*\\)\"/\1/{"" -e p -e q -e '}' <$usrinc/whoami.h"
   else
    case "$myhostname" in
    ") echo "Does this machine have an identity crisis or something?"
     phostname=";;
    *)
     echo "Well, you said $myhostname before..."
     phostname='echo $myhostname';;
    esac
   fi
  fi
 fi
fi
case "$myhostname" in
") myhostname=noname ;;
esac
: you do not want to know about this
set $myhostname
myhostname=$1

: verify guess
if $test "$myhostname" ; then
 dflt=y
 rp='Your host name appears to be "'$myhostname'".' Right?"
 . ./myread
 case "$ans" in
 y*) ;;
 *) myhostname=";;
 esac
fi

: bad guess or no guess
while $test "X$myhostname" = X ; do
 dflt="
 rp="Please type the (one word) name of your host:"
 . ./myread
 myhostname="$ans"
done

: translate upper to lower if necessary
case "$myhostname" in
*[A-Z]*)
 echo "(Normalizing case in your host name)"
 myhostname=`echo
 $myhostname | ./tr '[A-Z]' '[a-z]'`
 ;;
esac
```

```
?X: Do not ask for domain name if this is not used later on. In that
?X: case, the hostname may keep its domain name, but it doesn't matter.
@if MYDOMAIN || mydomain
case "$myhostname" in
*.*)
 dflt=`expr "X$myhostname" : "X[^.]*\(\..*\)"`
 myhostname=`expr "X$myhostname" : "X\([^.]*\)\."`
 echo "(Trimming domain name from host name--host name is now $myhostname)"
 ;;
*) case "$mydomain" in
 ")
?X:
?X: There is currently no way to say we do not want hostcat if mydomain is not
?X: used. One way to achieve that would be to put that code in a mydomain.U
?X: unit. However, we want to stick the sanity checks right after the domain
?X: name computation, or if none is done, right after the hostname computation.
?X:
  {
?X: If we use NIS, try ypmatch.
   test "X$hostcat" = "Xypcat hosts" &&
   ypmatch "$myhostname" hosts 2>/dev/null |\
    $sed -e 's/[  ]*#.*//; s/$/ /' > hosts && \
   $test -s hosts
  } || {
?X: Extract only
 the relevant hosts, reducing file size,
?X: remove comments, insert trailing space for later use.
        $hostcat | $sed -n -e "s/[  ]*#.*//; s/\$/ /
     /[  ]$myhostname[ . ]/p" > hosts
  }
  tmp_re="[ . ]"
  $test x`$awk "/[0-9].*[  ]$myhostname$tmp_re/ { sum++ }
        END { print sum }" hosts` = x1 || tmp_re="[  ]"
  dflt=.`$awk \
  "/[0-9].*[  ]$myhostname$tmp_re/ {for(i=2; i<=NF;i++) print \\\$i}" \
   hosts | $sort | $uniq | \
   $sed -n -e "s/$myhostname\.\([-a-zA-Z0-9_.]\)/\1/p"`
  case `$echo X$dflt` in
  X*\ *) echo "(Several hosts in /etc/hosts matched hostname)"
   dflt=.
   ;;
?X: There is no /etc/hosts on os390
  X.)
   if $test -f /etc/hosts; then
    echo "(You do not have fully-qualified names in /etc/hosts)"
   else
    echo "(I cannot locate a hosts database anywhere)"
   fi
```

```
  ;;
  esac
  case "$dflt" in
  .)
   tans=`./loc resolv.conf X /etc /usr/etc`
   if $test -f "$tans"; then
    echo "(Attempting domain name extraction from $tans)"
?X: Look for either a search
 or a domain directive.
    dflt=.`$sed -n -e 's/ / /g' \
      -e 's/^search  *\([^ ]*\).*/\1/p' $tans \
      | ./tr '[A-Z]' '[a-z]' 2>/dev/null`
    case "$dflt" in
    .) dflt=.`$sed -n -e 's/ / /g' \
         -e 's/^domain  *\([^ ]*\).*/\1/p' $tans \
         | ./tr '[A-Z]' '[a-z]' 2>/dev/null`
      ;;
    esac
   fi
   ;;
  esac
  case "$dflt" in
  .) echo "(No help from resolv.conf either -- attempting clever guess)"
   dflt=.`sh -c domainname 2>/dev/null`
   case "$dflt" in
   ") dflt='.';;
   .nis.*|.yp.*|.main.*) dflt=`echo $dflt | $sed -e 's/^\.[^.]*//'`;;
   esac
   ;;
  esac
  case "$dflt$osname" in
  .os390)
   file="//'SYS1.TCPPARMS(TCPDATA)'"
   echo "(Attempting domain name extraction from $file)"
   dflt=.`awk '/^DOMAINORIGIN/ {print $2}' "$file" 2>/dev/null`
   ;;
   esac
  case "$dflt" in
  .) echo "(Lost all hope -- silly guess then)"
   dflt='.nonet'
   ;;
  esac
  $rm -f hosts
  ;;
 *) dflt="$mydomain";;
 esac;;
esac
echo " "
```

```
rp="What is your domain name?"
.
 ./myread
tans="$ans"
case "$ans" in
") ;;
.*) ;;
*) tans=".$tans";;
esac
mydomain="$tans"

: translate upper to lower if necessary
case "$mydomain" in
*[A-Z]*)
 echo "(Normalizing case in your domain name)"
 mydomain=`echo $mydomain | ./tr '[A-Z]' '[a-z]'`
 ;;
esac

@end
: a little sanity check here
case "$phostname" in
") ;;
*)
 case `$phostname | ./tr '[A-Z]' '[a-z]'` in
 $myhostname$mydomain|$myhostname) ;;
 *)
  case "$phostname" in
  sed*)
   echo "(That doesn't agree with your whoami.h file, by the way.)"
   ;;
  *)
   echo "(That doesn't agree with your $phostname command, by the way.)"
   ;;
  esac
 ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/myhostname.U
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: yacc.U,v $
?RCS: Revision 3.0.1.1  1994/05/13  15:28:48  ram
?RCS: patch27: added byacc as another alternative (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:10:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:yacc yaccflags: Guess Myread Loc Oldconfig byacc bison cat test
?MAKE: -pick add $@ %<
?S:yacc:
?S: This variable holds the name of the compiler compiler we
?S: want to use in the Makefile. It can be yacc, byacc, or bison -y.
?S:.
?S:yaccflags:
?S: This variable contains any
 additional yacc flags desired by the
?S: user.  It is up to the Makefile to use this.
?S:.
?T:comp
: determine compiler compiler
echo " "
comp='yacc'
if $test -f "$byacc$_exe"; then
 comp="byacc or $comp"
fi
if $test -f "$bison$_exe"; then
 comp="$comp or bison -y"
fi
case "$yacc" in
")
 yacc=`./loc yacc yacc $pth`
 if $test -f "$yacc$_exe"; then
  dflt='yacc'
 elif $test -f "$byacc$_exe"; then
  dflt='byacc'
 elif $test -f "$bison$_exe"; then
  dflt='bison'
 else
  dflt=''
 fi
 ;;
```

```
*) dflt="$yacc";;
esac
rp="Which compiler compiler ($comp) shall I use?"
. ./myread
yacc="$ans"
case "$yacc" in
*bis*)
 case "$yacc" in
 *-y*) ;;
 *)
  yacc="$yacc -y"
  echo "(Adding -y option to bison to get yacc-compatible behaviour.)"
  ;;
 esac
 ;;
esac

@if yaccflags
: see if we need extra yacc flags
dflt="$yaccflags"
case "$dflt" in
") dflt=none;;
esac
$cat <<EOH

Your yacc program may need extra flags to normally process the parser sources.
Do NOT specify any -d or -v flags here, since those are
 explicitly known
by the various Makefiles. However, if your machine has strange/undocumented
options (like -Sr# on SCO to specify the maximum number of grammar rules), then
please add them here.  To use no flags, specify the word "none".

EOH
rp="Any additional yacc flags?"
. ./myread
case "$ans" in
none) yaccflags=";;
*) yaccflags="$ans";;
esac

@end
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/yacc.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: i_sysvfs.U,v $

```
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysvfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysvfs:
?S: This variable conditionally defines the I_SYSVFS symbol,
?S: and indicates whether a C program should include <sys/vfs.h>.
?S:.
?C:I_SYS_VFS:
?C: This symbol, if defined, indicates that <sys/vfs.h> exists and
?C: should be included.
?C:.
?H:#$i_sysvfs I_SYS_VFS  /**/
?H:.
?LINT:set i_sysvfs
: see if this is a sys/vfs.h system
set sys/vfs.h i_sysvfs
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_sysvfs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_vfork.U,v 3.0.1.6 1994/08/29 16:18:21 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_vfork.U,v $
?RCS: Revision 3.0.1.6  1994/08/29  16:18:21  ram
?RCS: patch32: set default to 'y' the first time
?RCS:
?RCS: Revision 3.0.1.5  1994/06/20  06:59:14  ram
?RCS: patch30: usevfork was not always properly set
?RCS:
?RCS: Revision 3.0.1.4  1994/05/13  15:20:56  ram
?RCS: patch27: modified to avoid spurious Whoa warnings (ADO)
?RCS:
```

```
?RCS: Revision 3.0.1.3  1994/05/06  14:59:09  ram
?RCS: patch23: now explicitly ask whether vfork() should be used
 (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1993/10/16  13:49:39  ram
?RCS: patch12: added magic for vfork()
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:06:57  ram
?RCS: patch10: removed automatic remapping of vfork on fork (WAD)
?RCS: patch10: added compatibility code for older config.sh (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_vfork usevfork d_pseudofork: Inlibc Myread Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_vfork:
?S: This variable conditionally defines the HAS_VFORK symbol, which
?S: indicates the vfork() routine is available.
?S:.
?S:usevfork:
?S: This variable is set to true when the user accepts to use vfork.
?S: It is set to false when no vfork is available or when the user
?S: explicitly requests not to use vfork.
?S:.
?S:d_pseudofork:
?S: This variable conditionally defines the HAS_PSEUDOFORK symbol,
?S: which indicates that an emulation of the fork routine is available.
?S:.
?C:HAS_VFORK (VFORK):
?C: This
 symbol, if defined, indicates that vfork() exists.
?C:.
?H:#$d_vfork HAS_VFORK /**/
?H:.
?C:HAS_PSEUDOFORK:
?C: This symbol, if defined, indicates that an emulation of the
?C: fork routine is available.
?C:.
?H:#$d_pseudofork HAS_PSEUDOFORK /**/
?H:.
?M:vfork: HAS_VFORK
?M:#ifndef HAS_VFORK
?M:#define vfork fork
?M:#endif
?M:.
?T:d_hvfork
: backward compatibility for d_hvfork
```

```
if test X$d_hvfork != X; then
 d_vfork="$d_hvfork"
 d_hvfork="
fi
?X:==========================
: see if there is a vfork
val="
set vfork val
eval $inlibc

d_pseudofork=$undef

: Ok, but do we want to use it. vfork is reportedly unreliable in
: perl on Solaris 2.x, and probably elsewhere.
case "$val" in
$define)
 echo " "
 case "$usevfork" in
 false) dflt='n';;
 *) dflt='y';;
 esac
 cat <<'EOM'

Perl can only use a vfork() that doesn't suffer from strict
restrictions on calling functions or modifying global data in
the child.  For example, glibc-2.1 contains such a vfork()
that is unsuitable.  If your system
 provides a proper fork()
call, chances are that you do NOT want perl to use vfork().

EOM
 rp="Do you still want to use vfork()?"
 . ./myread
 case "$ans" in
 y|Y) ;;
 *)
  echo "Ok, we won't use vfork()."
  val="$undef"
  ;;
 esac
 ;;
esac
?X:
?X: Only set it when final value is known to avoid spurious Whoa's
?X: Then set usevfork accordingly to the current value, for next run
?X:
set d_vfork
eval $setvar
```

```
case "$d_vfork" in
$define) usevfork='true';;
*) usevfork='false';;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_vfork.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_stddef.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_stddef.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_stddef: Inhdr
?MAKE: -pick add $@ %<
?S:i_stddef:
?S: This variable conditionally defines the I_STDDEF symbol, which
?S: indicates to the C program that <stddef.h> exists and should
?S: be included.
?S:.
?C:I_STDDEF:
?C: This symbol, if defined, indicates that <stddef.h> exists and should
?C: be included.
?C:.
?H:#$i_stddef I_STDDEF /**/
?H:.
?LINT:set
 i_stddef
: see if stddef is available
set stddef.h i_stddef
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_stddef.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: floatsize.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:17:09  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:floatsize: cat rm Myread +cc +ccflags
?MAKE: -pick add $@ %<
?S:floatsize:
?S: This variable contains the value of the FLOATSIZE symbol, which
?S: indicates to the C program how many bytes there are in a float.
?S:.
?C:FLOATSIZE:
?C: This symbol contains the size of
 a float, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define FLOATSIZE $floatsize  /**/
?H:.
?F:!try
: check for length of float
echo " "
case "$floatsize" in
")
 echo "Checking to see how big your floating point numbers are..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
 printf("%d\n", sizeof(float));
}
EOCP
 if $cc $ccflags -o try try.c >/dev/null 2>&1 ; then
  dflt=`./try`
 else
  dflt='4'
  echo "(I can't seem to compile the test program.  Guessing...)"
```

```
 fi
 ;;
*)
 dflt="$floatsize"
 ;;
esac
rp="What is the size of a floating point number (in bytes)?"
. ./myread
floatsize="$ans"
$rm -f try.c try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/floatsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_usleep.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_usleep.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:53  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_usleep: Inlibc
?MAKE: -pick add $@ %<
?S:d_usleep:
?S: This variable conditionally defines HAS_USLEEP if usleep() is
?S: available to do high granularity sleeps.
?S:.
?C:HAS_USLEEP (USLEEP):
?C: This symbol, if defined, indicates that the usleep routine is
?C: available to let the process sleep on a sub-second accuracy.
?C:.
?H:#$d_usleep
 HAS_USLEEP  /**/
?H:.
?LINT:set d_usleep
: see if usleep exists
set usleep d_usleep
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_usleep.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_nolnbuf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_nolnbuf.U,v $
?RCS: Revision 3.0.1.1  1994/05/06  14:46:07  ram
?RCS: patch23: avoid looping in the "see that again?" prompt (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:43  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_nolnbuf: test +cc cat rm Setvar Myread
?MAKE: -pick add $@ %<
?S:d_nolnbuf:
?S: This variable conditionally defines the NOLINEBUF symbol, which
?S: indicates to the C program that stdout is not buffered, so that
?S: the
 program can call setbuf() or setlinebuf() for efficiency.
?S:.
?C:NOLINEBUF:
?C: This symbol, if defined, indicates that stdout is not buffered, so that
?C: the program can call setbuf() or setlinebuf() for efficiency.
?C:.
?H:#$d_nolnbuf NOLINEBUF /**/
?H:.
?T:xxx
?F:!blurfl
?LINT:set d_nolnbuf
: check for buffering of stdout
echo " "
case "$d_nolnbuf" in
")
 $cat <<'EOT' >blurfl.c
#include <stdio.h>
int main()
{
 int i;
```

```
 for (i = 0; i < 5; i++) {
  putchar(i+'a');
  sleep(1);
 }
 putchar('\n');
}
EOT
 $cc -o blurfl blurfl.c >/dev/null 2>&1;
 $rm -f blurfl.c
 $cat >&4 <<'EOM'
Checking for buffering of stdout to terminal.

Observe the following characters as they are printed out, to see whether they
print out all at once, or with a 1 second pause between each of them.  If they
print out one by one, you don't have buffering.  If they print together (after
about a 5 second pause), you do have buffering.

EOM
 dflt='Type return to start printing the test characters'
 rp="
 .
 ./myread
 xxx=y
 while $test "$xxx" = 'y'; do
  ./blurfl 1>&4
  dflt=n
  rp='Would you like to see that again?'
  . ./myread
  case "$ans" in
  [yY]*) xxx="y";;
  *) xxx="n";;
  esac
 done
 dflt=y
 rp="Do you have buffering (printed all at once)?"
 . ./myread
 case "$ans" in
 n*) val="$define";;
 *)  val="$undef";;
 esac
 ;;
*)
 case "$d_nolnbuf" in
 "$define") dflt=n;;
 *) dflt=y;;
 esac
 rp="Do you have buffering on stdout to terminals?"
```

```
 . ./myread
 case "$ans" in
 n*) val="$define";;
 *)  val="$undef";;
 esac
 ;;
esac
set d_nolnbuf
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_nolnbuf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_pthread_atfork: Inlibc cat Compile usethreads Setvar
?MAKE: -pick add $@ %<
?S:d_pthread_atfork:
?S: This variable conditionally defines the HAS_PTHREAD_ATFORK symbol,
?S: which indicates to the C program that the pthread_atfork()
?S: routine is available.
?S:.
?C:HAS_PTHREAD_ATFORK:
?C: This symbol, if defined, indicates that the pthread_atfork routine
?C: is available to setup fork handlers.
?C:.
?H:#$d_pthread_atfork HAS_PTHREAD_ATFORK  /**/
?H:.
?LINT:set d_pthread_atfork
: see whether the pthread_atfork exists
$cat >try.c <<EOP
#include <pthread.h>
#include <stdio.h>
int main() {
#ifdef  PTHREAD_ATFORK
	pthread_atfork(NULL,NULL,NULL);
#endif
}
EOP

: see if pthread_atfork exists
```

```
set
 try -DPTHREAD_ATFORK
if eval $compile; then
   val="$define"
else
   val="$undef"
fi
case "$usethreads" in
$define)
       case "$val" in
       $define) echo 'pthread_atfork found.' >&4        ;;
       *)       echo 'pthread_atfork NOT found.' >&4    ;;
       esac
esac
set d_pthread_atfork
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_pthread_atfork.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtod_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtod_l:
?S: This variable conditionally defines the HAS_STRTOD_L symbol, which
?S: indicates to the C program that the strtod_l() routine is available.
?S:.
?C:HAS_STRTOD_L:
?C: This symbol, if defined, indicates that the strtod_l routine is
?C: available to convert strings to long doubles.
?C:.
?H:#$d_strtod_l HAS_STRTOD_L  /**/
?H:.
?LINT:set d_strtod_l
: see if strtod_l exists
set strtod_l d_strtod_l
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/threads/d_strtod_l.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, 2012 Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:ptrsize: cat rm_try Myread +cc +ccflags
?MAKE: -pick add $@ %<
?S:ptrsize:
?S: This variable contains the value of the PTRSIZE symbol, which
?S: indicates to the C program how many bytes there are in a pointer.
?S:.
?C:PTRSIZE:
?C: This symbol contains the size of a pointer, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define PTRSIZE $ptrsize  /**/
?H:.
?F:!try
: check for length of pointer
echo " "
case "$ptrsize" in
")
 echo "Checking to see how big your pointers are..."
 >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
 printf("%d\n", sizeof(char *));
}
EOCP
 if $cc $ccflags -o try try.c >/dev/null 2>&1 ; then
  dflt=`./try`
 else
  dflt='4'
  echo "(I can't seem to compile the test program.  Guessing...)"
 fi
 ;;
*)
 dflt="$ptrsize"
```

```
 ;;
esac
rp="What is the size of a pointer (in bytes)?"
. ./myread
ptrsize="$ans"
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/ptrsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Typedef.U,v 3.0.1.3 1995/07/25 13:42:07 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Typedef.U,v $
?RCS: Revision 3.0.1.3  1995/07/25  13:42:07  ram
?RCS: patch56: added backslash escapes within evals to prevent space problems
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:01:16  ram
?RCS: patch36: don't clobber visible 'val' variable, use 'varval' instead
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:05:14  ram
?RCS: patch32: created
?RCS:
?X:
?X: This unit checks for the definition of a given typedef.
?X:
?X: To use it, say:
?X: set typedef
 val_t default [includes]
?X: eval $typedef
?X:
?MAKE:Typedef: cppstdin cppminus cppflags rm sed contains Oldconfig Myread
?MAKE: -pick add $@ %<
?LINT:define typedef
?LINT:define typedef_ask
?V:typedef typedef_ask
?S:typedef:
?S: This shell variable is used internally by Configure to check
?S: whether a given typedef is defined or not. A typical use is:
```

```
?S:  set typedef val_t default [includes]
?S:  eval $typedef
?S: That will return val_t set to default if the typedef was not found,
?S: to typedef otherwise. If no includes are specified, look in sys/types.h.
?S:.
?S:typedef_ask:
?S: This shell variable is used internally by Configure to check
?S: whether a given typedef is defined or not.  If it is not defined,
?S: this will call the ./myread script to prompt for an answer.
?S: It is intended to be used to avoid unnecessary prompts.
?S: A typical use is
?S:  rp="What is the type for file position used by fsetpos()?"
?S:  set fpos_t fpostype long stdio.h sys/types.h
?S:  eval $typedef_ask
?S: This
 will set fpostype=fpos_t, if fpos_t is available.  Otherwise
?S: it will call myread with a default of 'long', and a prompt of $rp.
?S:.
?T:type var def inclist varval inc
?F:!temp.c
: define an is-a-typedef? function
typedef='type=$1; var=$2; def=$3; shift; shift; shift; inclist=$@;
case "$inclist" in
"") inclist="sys/types.h";;
esac;
eval "varval=\$$var";
case "$varval" in
"")
 $rm -f temp.c;
 for inc in $inclist; do
  echo "#include <$inc>" >>temp.c;
 done;
?X: Maybe it's a #define instead of a typedef.
 echo "#ifdef $type" >> temp.c;
 echo "printf(\"We have $type\");" >> temp.c;
 echo "#endif" >> temp.c;
 $cppstdin $cppflags $cppminus < temp.c >temp.E 2>/dev/null;
 if $contains $type temp.E >/dev/null 2>&1; then
  eval "$var=\$type";
 else
  eval "$var=\$def";
 fi;
 $rm -f temp.?;;
*) eval "$var=\$varval";;
esac'

?X: Originally, I eval'd $typedef and then checked the results against
?X: $type.  Unfortunately, it then became complicated to check
```

```
?X: whether you are re-using
 an old config.sh value, and the logic got
?X: so convoluted it became easier to just copy the function above
?X: and alter it slightly.  A.D.  3/1998
: define an is-a-typedef? function that prompts if the type is not available.
typedef_ask='type=$1; var=$2; def=$3; shift; shift; shift; inclist=$@;
case "$inclist" in
"") inclist="sys/types.h";;
esac;
eval "varval=\$$var";
case "$varval" in
"")
 $rm -f temp.c;
 for inc in $inclist; do
  echo "#include <$inc>" >>temp.c;
 done;
?X: Maybe it's a #define instead of a typedef.
 echo "#ifdef $type" >> temp.c;
 echo "printf(\"We have $type\");" >> temp.c;
 echo "#endif" >> temp.c;
 $cppstdin $cppflags $cppminus < temp.c >temp.E 2>/dev/null;
 echo " " ;
 echo "$rp" | $sed -e "s/What is/Looking for/" -e "s/?/./";
 if $contains $type temp.E >/dev/null 2>&1; then
  echo "$type found." >&4;
  eval "$var=\$type";
 else
  echo "$type NOT found." >&4;
  dflt="$def";
  . ./myread ;
  eval "$var=\$ans";
 fi;
 $rm -f temp.?;;
*) eval "$var=\$varval";;
esac'

Found
 in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
5.36.0/U/typedefs/Typedef.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_lchown.U,v 3.0.1.1 1994/08/29 16:07:14 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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```

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_lchown.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:14  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_lchown: Compile Setvar cat echo i_unistd rm_try
?MAKE: -pick add $@ %<
?S:d_lchown:
?S: This variable conditionally defines the HAS_LCHOWN symbol, which
?S: indicates to the C program that the lchown() routine is available
?S: to operate on a symbolic link (instead of following
 the link).
?S:.
?C:HAS_LCHOWN :
?C: This symbol, if defined, indicates that the lchown routine is
?C: available to operate on a symbolic link (instead of following the
?C: link).
?C:.
?H:#$d_lchown HAS_LCHOWN  /**/
?H:.
?F:!try
?LINT:set d_lchown
: see if lchown exists
echo " "
?X: Some functions (such as lchown()) are present in libc, but are
?X: unimplemented.  That is, they always fail and set errno=ENOSYS.
?X:
?X: Thomas Bushnell provided the following sample code and the explanation
?X: that follows.
?X:
?X: The choice of <assert.h> is essentially arbitrary.  The GNU libc
?X: macros are found in <gnu/stubs.h>.  You can include that file instead
?X: of <assert.h> (which itself includes <gnu/stubs.h>) if you test for
?X: its existence first.  <assert.h> is assumed to exist on every system,
?X: which is why it's used here.  Any GNU libc header file will include
?X: the stubs macros.  If either __stub_NAME or __stub___NAME is defined,
?X: then the function doesn't actually exist.
  Tests using <assert.h> work
?X: on every system around.
?X:
?X: The declaration of FOO is there to override builtin prototypes for
?X: ANSI C functions.
?X:
```

```
?X:  I really ought to enhance the inlibc test to check for this, but
?X:  I don't have time now.  --A.D.  5/1998
?X:
?X: Unfortunately, this trick fails under clang++-7.  Apparently to
?X: cover both the stub issue and clang's requirements, we need to do
?X: a compile and run test. -- A.D. 8/2019
?X:
$cat > try.c <<EOCP
#include <pwd.h>
#include <stdio.h>
#include <stdlib.h>
#$i_unistd I_UNISTD
#ifdef I_UNISTD
#  include <unistd.h>
#endif
int main(int argc, char *argv[])
{
  if (lchown("./try.c", -1, getgid()) == -1) {
      exit(EXIT_FAILURE);
  }
  exit(EXIT_SUCCESS);
}
EOCP
set try
if eval $compile && ./try; then
   $echo "lchown() found." >&4
   val="$define"
else
   $echo "lchown() NOT found." >&4
   val="$undef"
fi
set d_lchown
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_lchown.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: nlist_pfx.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: nlist_pfx.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:26:18  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:25  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:nlist_pfx nlist_fnd: cat test Myread Oldconfig libnlist \
 +cc +ccflags
?MAKE: -pick add $@ %<
?S:nlist_pfx:
?S: This variable holds any characters which precede the symbol name
?S: when doing an nlist search.
?S:.
?S:nlist_fnd:
?S: This
 variable holds the member of the nlist structure which is
?S: nonzero if an nlist search succeeds.  Presently, it is always "n_value".
?S:.
?C:NLIST_PREFIX:
?C: This manifest constant holds the string of characters which should
?C: precede the symbol name when doing an nlist search.
?C:.
?C:NLIST_FOUND:
?C: This manifest constant holds the member of the nlist structure which
?C: is nonzero if an nlist search succeeds.
?C:.
?H:#define NLIST_PREFIX $nlist_pfx /**/
?H:#define NLIST_FOUND $nlist_fnd /**/
?H:.
?F:!nlisttest
?T:nlist_loc
: Nose around for nlist stuff
echo " "
echo "Checking out nlist stuff..." >&4
$cat >nlisttest.c <<'EOCP'
#include <stdio.h>
#include <nlist.h>

main(argc, argv)
int argc;
char **argv;
{
 int (*loc)();
 extern int hereIam();
 static struct nlist nl[] = {
```

```
 { "IamNotFound", 0 },
 { "hereIam", 0 },
 { "_hereIam", 0 },
 { ".hereIam", 0 },
 { "", 0 }
};

loc = hereIam;

if(argc == 1) {
 printf("%ld\n", loc);}
else {
 int i;
 int rc;

 if(nlist("./nlisttest",
nl) == -1) exit(-1);
 i = argv[1][0] - '0';
 printf("%d %d %d\n", nl[i].n_name, nl[i].n_type, nl[i].n_value);
 }
exit(0);}

int hereIam() {

 return;}
EOCP
nlist_fnd=n_value
if $cc $ccflags -o nlisttest nlisttest.c $libnlist >/dev/null 2>&1 ; then
 set `./nlisttest`
 nlist_loc=$1

 set `./nlisttest 0`
 if $test "$3" = "0" ; then
  echo "$nlist_fnd is 0 if nlist() fails, as I expected."
 else
  $cat <<EOM
Hello, Jim.  We have just discovered that $nlist_fnd was nonzero on an
nlist() lookup failure!  Your mission, should you choose to accept it, is to
edit either config.sh (to provide a Good value for nlist_fnd) or The Code
(to find an alternative to NLIST_FOUND), and reporting the full details of
your success to the MetaConfig Police.  Of course, should you fail...
EOM
  nlist_fnd="/* Bletch! */ */"
 fi

 set `./nlisttest 1`
 if $test "$nlist_loc" = "$3" ; then
  echo "Symbols are stored with no initial characters."
```

```
  nlist_pfx=
 else
  set `./nlisttest 2`
  if
 $test "$nlist_loc" = "$3" ; then
   echo "Symbols are stored with an initial underscore."
   nlist_pfx=_
  else
   set `./nlisttest 3`
   if $test "$nlist_loc" = "$3" ; then
    echo "Symbols are stored with an initial dot."
    nlist_pfx=.
   else
    $cat <<EOM
I can't figure out the symbol prefix!
You get to edit config.sh and fix 'nlist_pfx' (Configure will let you do this
at the end of its configuration questions), or config.h and fix the value of
the NLIST_PREFIX symbol.
EOM
    nlist_pfx="/* Bletch! */ */"
   fi
  fi
 fi
else
 $cat <<EOM
I can't get the nlist test program working!
You get to edit config.sh and fix 'nlist_pfx' (Configure will let you do this
at the end of its configuration questions) and 'nlist_fnd', or config.h and
fix the value of the NLIST_PREFIX and NLIST_FOUND symbols.
EOM
 nlist_pfx="/* Bletch! */ */"
 nlist_fnd="/* Bletch! */ */"
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/nlist_pfx.U
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```
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?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
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?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Unix.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:20:06  ram
?RCS: patch61: created
?RCS:
?X:
?X: The purpose of this unit is to define things that are common across all
?X: known UNIX platforms. If Configure is ported/used on a non-UNIX
?X: environment, then some of the following variables can be redefined in hint
?X: files.
?X:
?MAKE:Unix _a _o firstmakefile archobjs: Oldconfig
?MAKE: -pick add $@ %<
?S:_a (lib_ext):
?S: This variable defines the extension
 used for ordinary libraries.
?S: For unix, it is '.a'.  The '.' is included.  Other possible
?S: values include '.lib'.
?S:.
?S:_o (obj_ext):
?S: This variable defines the extension used for object files.
?S: For unix, it is '.o'.  The '.' is included.  Other possible
?S: values include '.obj'.
?S:.
?S:firstmakefile:
?S: This variable defines the first file searched by make.  On unix,
?S: it is makefile (then Makefile).  On case-insensitive systems,
?S: it might be something else.  This is only used to deal with
?S: convoluted make depend tricks.
?S:.
?S:archobjs:
?S: This variable defines any additional objects that must be linked
?S: in with the program on this architecture.  On unix, it is usually
?S: empty.  It is typically used to include emulations of unix calls
?S: or other facilities.  For perl on OS/2, for example, this would
?S: include os2/os2.obj.
?S:.
?INIT:: Extra object files, if any, needed on this platform.
?INIT:archobjs=''
: Define several unixisms.
: Hints files
 or command line option can be used to override them.
case "$_a" in
'') _a='.a';;
esac
case "$_o" in
'') _o='.o';;
```

```
esac

@if firstmakefile
: Which makefile gets called first.  This is used by make depend.
case "$firstmakefile" in
") firstmakefile='makefile';;
esac

@end
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Unix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_aintl: Inlibc
?MAKE: -pick add $@ %<
?S:d_aintl:
?S: This variable conditionally defines the HAS_AINTL symbol, which
?S: indicates to the C program that the aintl() routine is available.
?S: If copysignl is also present we can emulate modfl.
?S:.
?C:HAS_AINTL:
?C: This symbol, if defined, indicates that the aintl routine is
?C: available.  If copysignl is also present we can emulate modfl.
?C:.
?H:#$d_aintl HAS_AINTL  /**/
?H:.
?LINT:set d_aintl
: see if aintl exists
set aintl d_aintl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_aintl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysun.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit looks wether <inttypes.h> is available or not
?X:
?MAKE:i_inttypes: Inhdr
?MAKE: -pick add $@ %<
?S:i_inttypes:
?S: This variable conditionally defines I_INTTYPES, which indicates
?S: to the C program that it should include <inttypes.h> to get
?S: format conversions of integer types.
?S:.
?C:I_INTTYPES:
?C: This symbol, if defined, indicates to the C program that it should
?C: include
 <inttypes.h> to get format conversions of integer types.
?C:.
?H:#$i_inttypes I_INTTYPES  /**/
?H:.
?LINT:set i_inttypes
: see if this is a inttypes.h system
set inttypes.h i_inttypes
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_inttypes.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_rmdir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: d_rmdir.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_rmdir: Inlibc
?MAKE: -pick add $@ %<
?S:d_rmdir:
?S: This variable conditionally defines HAS_RMDIR if rmdir() is
?S: available to remove directories.
?S:.
?C:HAS_RMDIR (RMDIR):
?C: This symbol, if defined, indicates that the rmdir routine is
?C: available to remove directories. Otherwise you should fork off a
?C: new process to exec
 /bin/rmdir.
?C:.
?H:#$d_rmdir HAS_RMDIR  /**/
?H:.
?LINT:set d_rmdir
: see if rmdir exists
set rmdir d_rmdir
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_rmdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_round: Inlibc
?MAKE: -pick add $@ %<
?S:d_round:
?S: This variable conditionally defines the HAS_ROUND symbol, which
?S: indicates to the C program that the round() routine is available.
?S:.
?C:HAS_ROUND:
?C: This symbol, if defined, indicates that the round routine is
?C: available to round to nearest integer, away from zero.
?C:.
?H:#$d_round HAS_ROUND  /**/
?H:.
?LINT:set d_round
: see if round exists
set round d_round
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_round.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endprotoent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_endprotoent_r endprotoent_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_endprotoent_r:
?S: This variable conditionally defines the HAS_ENDPROTOENT_R symbol,
?S: which indicates to the C program that the endprotoent_r()
?S: routine is available.
?S:.
?S:endprotoent_r_proto:
?S: This variable encodes the prototype of endprotoent_r.
?S: It is zero if d_endprotoent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endprotoent_r
?S: is defined.
?S:.
?C:HAS_ENDPROTOENT_R:
?C: This symbol, if defined, indicates that the endprotoent_r
 routine
?C: is available to endprotoent re-entrantly.
?C:.
?C:ENDPROTOENT_R_PROTO:
?C: This symbol encodes the prototype of endprotoent_r.
?C: It is zero if d_endprotoent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endprotoent_r
?C: is defined.
?C:.
?H:#$d_endprotoent_r HAS_ENDPROTOENT_R /**/
?H:#define ENDPROTOENT_R_PROTO $endprotoent_r_proto /**/
?H:.
?T:try hdrs d_endprotoent_r_proto
: see if endprotoent_r exists
set endprotoent_r d_endprotoent_r
eval $inlibc
case "$d_endprotoent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
```

```
 case "$d_endprotoent_r_proto:$usethreads" in
 ":define") d_endprotoent_r_proto=define
  set d_endprotoent_r_proto endprotoent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_endprotoent_r_proto" in
 define)
 case "$endprotoent_r_proto" in
 "|0) try='int endprotoent_r(struct protoent_data*);'
 ./protochk "$extern_C $try" $hdrs && endprotoent_r_proto=I_D ;;
 esac
 case "$endprotoent_r_proto"
 in
 "|0) try='void endprotoent_r(struct protoent_data*);'
 ./protochk "$extern_C $try" $hdrs && endprotoent_r_proto=V_D ;;
 esac
 case "$endprotoent_r_proto" in
 "|0) d_endprotoent_r=undef
  endprotoent_r_proto=0
  echo "Disabling endprotoent_r, cannot determine prototype." >&4 ;;
 * ) case "$endprotoent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) endprotoent_r_proto="REENTRANT_PROTO_$endprotoent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "endprotoent_r has no prototype, not using it." >&4 ;;
  esac
  d_endprotoent_r=undef
  endprotoent_r_proto=0
  ;;
 esac
 ;;
*) endprotoent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_endprotoent_r.U
No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:

```
?MAKE:i_quadmath: Inhdr
?MAKE: -pick add $@ %<
?S:i_quadmath:
?S: This variable conditionally defines I_QUADMATH, which indicates
?S: to the C program that it should include <quadmath.h>.
?S:.
?C:I_QUADMATH:
?C: This symbol, if defined, indicates that <quadmath.h> exists and
?C: should be included.
?C:.
?H:#$i_quadmath I_QUADMATH  /**/
?H:.
?LINT:set i_quadmath
: see if this is a quadmath.h system
set quadmath.h i_quadmath
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_quadmath.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getwd.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getwd.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:18  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getwd: Csym Setvar
?MAKE: -pick add $@ %<
?S:d_getwd:
?S: This variable conditionally defines HAS_GETWD if getwd() is
?S: available to get working directory. If not, you should
?S: probably use getcwd().
?S:.
?C:HAS_GETWD (GETWD):
?C: This symbol, if defined, indicates that the getwd routine is
?C: available to get working directory.
 If not, you should
?C: probably use getcwd().
```

```
?C:.
?H:#$d_getwd HAS_GETWD  /**/
?H:.
?LINT:set d_getwd
: see if getwd exists
echo " "
if set getwd val -f d_getwd; eval $csym; $val; then
 echo 'getwd() found.' >&4
 val="$define"
else
 echo 'getwd() not found. Assuming getcwd() exists.' >&4
 val="$undef"
fi
set d_getwd
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getwd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Loc.U,v $
?RCS: Revision 3.0.1.10  1997/02/28  15:04:16  ram
?RCS: patch61: allow users to specify paths on the command line
?RCS: patch61: will now substitute cp for ln if not supported
?RCS:
?RCS: Revision 3.0.1.9  1995/09/25  09:11:24  ram
?RCS: patch59: commented the purpose of the #un-def directive
?RCS: patch59: abort Configure run when mandatory command is missing
?RCS:
?RCS: Revision 3.0.1.8  1995/07/25  13:40:40  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.7
  1995/01/11  15:13:37  ram
?RCS: patch45: protected "sh -c" within backquotes for Linux and SGI
?RCS: patch45: added path lookup for the 'comm' program
?RCS:
```

```
?RCS: Revision 3.0.1.6  1994/10/29  15:56:14  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: be careful and guard against wildcard searching (ADO)
?RCS:
?RCS: Revision 3.0.1.5  1994/06/20  06:54:55  ram
?RCS: patch30: now locates find
?RCS:
?RCS: Revision 3.0.1.4  1994/05/13  15:18:15  ram
?RCS: patch27: added byacc to the trylist (ADO)
?RCS: patch27: lint lines reformatted (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/01/24  14:01:44  ram
?RCS: patch16: added metalint hint on changed PATH variable
?RCS:
?RCS: Revision 3.0.1.2  1993/12/15  08:16:52  ram
?RCS: patch15: now set _test variable when test is built-in
?RCS: patch15: fixed rare cases where echo is not needed
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  15:47:13  ram
?RCS: patch10: test program not always in /bin/test (WAD)
?RCS:
?RCS: Revision
 3.0  1993/08/18  12:05:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script "loc" which can be used to find out
?X: where in a list of directories something is.  It then uses loc to
?X: determine the location of commonly used programs.  It leaves loc sitting
?X: around for other Configure units to use, but arranges for its demise
?X: at the end of Configure.
?X:
?X: To add a new program to find, add it both to the ?MAKE: line and to either
?X: the loclist or trylist variable.
?X:
?X: I put startsh at the end of the dependency list, in order to avoid the
?X: loading of the spitshell unit before the instructions.
?X:
?MAKE:Loc awk ar bash bison byacc cat chgrp chmod chown \
 comm compress cp cpio cpp csh date echo egrep emacs expr find flex \
 gmake gzip grep inews ksh less line lint ln lp lpr ls mail mailx \
 make mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \
 shar sleep smail sort submit tail tar tbl tee test touch tr troff
 \
 uname uniq uuname vi zcat zip:  eunicefix n c startsh Instruct Warn
?MAKE: -pick weed $@ %<
?LINT:describe awk ar bash bison byacc cat chgrp chmod chown \
 comm compress cp cpio cpp csh date echo egrep emacs expr find flex \
```

```
 gmake gzip grep inews ksh less line lint ln lp lpr ls mail mailx \
 make mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \
 shar sleep smail sort submit tail tar tbl tee test touch tr troff \
 uname uniq uuname vi zcat zip
?V::pth loclist trylist
?F:./loc
?T:thisthing thing xxx dir file say DJGPP
?T:_test _grep _cp _gmake _egrep _ln _make dflt
?LINT: change PATH
: find out where common programs are
echo " "
echo "Locating common programs..." >&4
cat <<EOSC >loc
$startsh
case \$# in
0) exit 1;;
esac
thing=\$1
shift
dflt=\$1
shift
for dir in \$*; do
 case "\$thing" in
 .)
 if test -d \$dir/\$thing; then
  echo \$dir
  exit 0
 fi
 ;;
 *)
?X: Be careful in case thing includes wildcards that might expand to multiple
?X: files.  Choose the last one.
  This happens when searching for shared
?X: libraries with version numbers.  How to choose which one we want is
?X: probably an insoluble problem, in general.
?X: Some folks leave things like libc.so.orig around w/o read
?X: permission.  A -r test would handle that, but since ./loc is
?X: also used to find executables (which are installed w/o read
?X: permission on SCO ODT 3.0, we can't include the -r test.
 for thisthing in \$dir/\$thing; do
  : just loop through to pick last item
 done
 if test -f \$thisthing; then
  echo \$thisthing
  exit 0
 elif test -f \$thisthing$_exe; then
  echo \$thisthing
  exit 0
```

```
 elif test -f \$dir/\$thing.exe; then
  if test -n "$DJGPP"; then
   echo \$dir/\$thing.exe
  else
   : on Eunice apparently
   echo \$dir/\$thing
  fi
  exit 0
 fi
 ;;
 esac
done
echo \$dflt
exit 1
EOSC
chmod +x loc
$eunicefix loc
loclist="
?awk:awk
?cat:cat
?chgrp:chgrp
?chmod:chmod
?chown:chown
?comm:comm
?cp:cp
?echo:echo
?expr:expr
?find:find
?grep:grep
?ls:ls
?mkdir:mkdir
?mv:mv
?rm:rm
?sed:sed
?sleep:sleep
?sort:sort
?tail:tail
?touch:touch
?tr:tr
?uniq:uniq
"
trylist="
?Mcc:Mcc
?ar:ar
?bash:bash
?bison:bison
?byacc:byacc
?compress:compress
```

```
?cpio:cpio
?cpp:cpp
?csh:csh
?date:date
?egrep:egrep
?emacs:emacs
?flex:flex
?gmake:gmake
?gzip:gzip
?inews:inews
?ksh:ksh
?less:less
?line:line
?lint:lint
?ln:ln
?lp:lp
?lpr:lpr
?mail:mail
?mailx:mailx
?make:make
?more:more
?nm:nm
?nroff:nroff
?perl:perl
?pg:pg
?pmake:pmake
?pr:pr
?rmail:rmail
?sendmail:sendmail
?shar:shar
?smail:smail
?submit:submit
?tar:tar
?tbl:tbl
?tee:tee
?test:test
?troff:troff
?uname:uname
?uuname:uuname
?vi:vi
?zcat:zcat
?zip:zip
"
?LINT:set
 awk ar bash bison byacc cat chgrp chmod chown \
 comm compress cp cpio cpp csh date echo emacs expr find flex \
 gmake gzip grep inews ksh less line lint lp lpr ls mail mailx \
 mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \
```

```
 shar sleep smail sort submit tail tar tbl tee touch tr troff \
 uname uniq uuname vi zcat zip
pth=`echo $PATH | sed
 -e "s/$p_/ /g"`
pth="$pth /lib /usr/lib"
for file in $loclist; do
?X:
?X: Allow them to -Dmake=pmake on the command line for instance...
?X: If the file is not fully qualified, as in -Dmake=pmake, then we
?X: look the for the specified command (pmake here). If they say
?X: -Dmake=/sbin/make for instance, then we make sure the file
?X: exists, or we die...
?X:
 eval xxx=\$$file
 case "$xxx" in
 /*|?:[\\/]*)
  if test -f "$xxx"; then
   : ok
  else
   ./warn "no $xxx -- ignoring your setting for $file."
   xxx=`./loc $file $file $pth`
  fi
  ;;
 ") xxx=`./loc $file $file $pth`;;
 *) xxx=`./loc $xxx $xxx $pth`;;
 esac
 eval $file=$xxx$_exe
 eval _$file=$xxx
 case "$xxx" in
 /*)
  echo $file is in $xxx.
  ;;
?X: Under OS/2, we have PC-like paths
 ?:[\\/]*)
  echo $file is in $xxx.
  ;;
 *)
  echo "I don't know where '$file' is, and my life depends on it." >&4
  echo "Go find a public domain implementation or fix your PATH setting!" >&4
  exit 1
  ;;
 esac
done
echo " "
echo "Don't worry
 if any of the following aren't found..."
say=offhand
for file in $trylist; do
```

```
?X: Allow them to -Dmake=pmake on the command line for instance (see above)
 eval xxx=\$$file
 case "$xxx" in
 /*|?:[\\/]*)
  if test -f "$xxx"; then
   : ok
  else
   ./warn "no $xxx -- ignoring your setting for $file."
   xxx=`./loc $file $file $pth`
  fi
  ;;
 ") xxx=`./loc $file $file $pth`;;
 *) xxx=`./loc $xxx $xxx $pth`;;
 esac
 eval $file=$xxx$_exe
 eval _$file=$xxx
 case "$xxx" in
 /*)
  echo $file is in $xxx.
  ;;
?X: Under OS/2, we have PC-like paths
 ?:[\\/]*)
  echo $file is in $xxx.
  ;;
 *)
  echo "I don't see $file out there, $say."
  say=either
  ;;
 esac
done
case "$egrep" in
egrep)
 echo "Substituting grep for egrep."
 egrep=$grep
 _egrep=$_grep
 ;;
esac
@if ln
case "$ln" in
ln)
 echo "Substituting cp for ln."
 ln=$cp
 _ln=$_cp
 ;;
esac
@end
@if make || gmake
case "$make" in
```

```
make)
 case "$gmake" in
 gmake)
 echo "I can't find make or gmake, and my life depends on it." >&4
 echo "Go find a
 public domain implementation or fix your PATH setting!" >&4
 exit 1
 ;;
 esac
 ;;
esac
case "$gmake" in
gmake) ;;
*) # We can't have osname yet.
 if test -f "/system/gnu_library/bin/ar.pm"; then # Stratus VOS
  # Assume that gmake, if found, is definitely GNU make
  # and prefer it over the system make.
  echo "Substituting gmake for make."
  make=$gmake
  _make=$_gmake
 fi
 ;;
esac
@end
case "$test" in
test)
 echo "Hopefully test is built into your sh."
 ;;
*)
 if `sh -c "PATH= test true" >/dev/null 2>&1`; then
  echo "Using the test built into your sh."
?X:
?X: We need to set both test and _test, since Oldconfig.U will use the _test
?X: value to systematically restore computed paths, which may be wrong if
?X: we choose to load an old config.sh generated on another platform.
?X:
  test=test
  _test=test
 fi
 ;;
esac
?LINT:change n c
case "$echo" in
echo)
 echo "Hopefully echo is built into your sh."
 ;;
?X: For those rare cases where we don't need $echo...
") ;;
```

```
*)
 echo " "
echo "Checking
 compatibility between $echo and builtin echo (if any)..." >&4
 $echo $n "hi there$c" >foo1
 echo $n "hi there$c" >foo2
 if cmp foo1 foo2 >/dev/null 2>&1; then
  echo "They are compatible.  In fact, they may be identical."
 else
  case "$n" in
  '-n') n=" c='\c';;
  *) n='-n' c=";;
  esac
  cat <<FOO
They are not compatible!  You are probably running ksh on a non-USG system.
I'll have to use $echo instead of the builtin, since Bourne shell doesn't
have echo built in and we may have to run some Bourne shell scripts.  That
means I'll have to use '$n$c' to suppress newlines now.  Life is ridiculous.

FOO
  $echo $n "The star should be here-->$c"
  $echo "*"
 fi
 $rm -f foo1 foo2
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Loc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: maildir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: maildir.U,v $
?RCS: Revision 3.0.1.1  1993/12/15  08:21:56  ram
?RCS: patch15: now also looks under /var/mail for BSD/386
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:09  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?MAKE:maildir maildirexp: Getfile Loc Oldconfig
?MAKE: -pick add $@ %<
?S:maildir:
?S: This variable contains the name of the directory in which mail is
?S: spooled. Programs using this variable must be prepared to deal with
?S: ~name
 substitutions.
?S:.
?S:maildirexp:
?S: This is the same as the maildir variable, but is filename expanded
?S: at configuration time, for programs not willing to deal with it at
?S: run-time.
?S:.
: determine where mail is spooled
case "$maildir" in
") dflt=`./loc . /usr/spool/mail /usr/spool/mail /usr/mail /var/mail`;;
*) dflt="$maildir";;
esac
echo " "
fn=d~
rp='Where is yet-to-be-read mail spooled?'
. ./getfile
maildir="$ans"
maildirexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/maildir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: mallocsrc.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:10:26  ram
?RCS: patch61: added support for Free_t, the type of free()
?RCS: patch61: replaced .o with $_o all over the place
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:10:46  ram
?RCS: patch23: added support for MYMALLOC, mainly  for perl5 (ADO)
```

```
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:12  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:mallocsrc mallocobj usemymalloc malloctype d_mymalloc \
 freetype: Myread \
 Oldconfig
 package Guess Setvar rm cat +cc +ccflags Findhdr \
 i_malloc i_stdlib sed libs _o ptrsize
?MAKE: -pick add $@ %<
?X: Put near top so that other tests don't erroneously include
?X: -lmalloc.  --AD  22 June 1998
?Y:TOP
?S:usemymalloc:
?S: This variable contains y if the malloc that comes with this package
?S: is desired over the system's version of malloc.  People often include
?S: special versions of malloc for effiency, but such versions are often
?S: less portable.  See also mallocsrc and mallocobj.
?S: If this is 'y', then -lmalloc is removed from $libs.
?S:.
?S:mallocsrc:
?S: This variable contains the name of the malloc.c that comes with
?S: the package, if that malloc.c is preferred over the system malloc.
?S: Otherwise the value is null.  This variable is intended for generating
?S: Makefiles.
?S:.
?S:d_mymalloc:
?S: This variable conditionally defines MYMALLOC in case other parts
?S: of the source want to take special action if MYMALLOC is used.
?S: This may include different sorts
 of profiling or error detection.
?S:.
?S:mallocobj:
?S: This variable contains the name of the malloc.o that this package
?S: generates, if that malloc.o is preferred over the system malloc.
?S: Otherwise the value is null.  This variable is intended for generating
?S: Makefiles.  See mallocsrc.
?S:.
?S:freetype:
?S: This variable contains the return type of free().  It is usually
?S: void, but occasionally int.
?S:.
?S:malloctype:
?S: This variable contains the kind of ptr returned by malloc and realloc.
?S:.
?C:Free_t:
?C: This variable contains the return type of free().  It is usually
?C: void, but occasionally int.
```

```
?C:.
?C:Malloc_t (MALLOCPTRTYPE):
?C: This symbol is the type of pointer returned by malloc and realloc.
?C:.
?H:#define Malloc_t $malloctype   /**/
?H:#define Free_t $freetype   /**/
?H:.
?C:MYMALLOC:
?C: This symbol, if defined, indicates that we're using our own malloc.
?C:.
?H:#$d_mymalloc MYMALLOC   /**/
?H:.
?LINT:change libs
?X: Cannot test for mallocsrc; it
 is the unit's name and there is a bug in
?X: the interpreter which defines all the names, even though they are not used.
@if mallocobj
: determine which malloc to compile in
echo " "
case "$usemymalloc" in
[yY]*|true|$define) dflt='y' ;;
[nN]*|false|$undef) dflt='n' ;;
*)
 case "$ptrsize" in
 4) dflt='y' ;;
 *) dflt='n' ;;
 esac
 ;;
esac
rp="Do you wish to attempt to use the malloc that comes with $package?"
. ./myread
usemymalloc="$ans"
case "$ans" in
y*|true)
 usemymalloc='y'
 mallocsrc='malloc.c'
 mallocobj="malloc$_o"
 d_mymalloc="$define"
?X: Maybe libs.U should be dependent on mallocsrc.U, but then
?X: most packages that use dist probably don't supply their own
?X: malloc, so this is probably an o.k. comprpomise
 case "$libs" in
 *-lmalloc*)
  : Remove malloc from list of libraries to use
  echo "Removing unneeded -lmalloc from library list" >&4
  set `echo X $libs | $sed -e 's/-lmalloc / /' -e 's/-lmalloc$//'`
  shift
  libs="$*"
```

```
  echo "libs = $libs" >&4
  ;;
 esac
 ;;
*)
 usemymalloc='n'
 mallocsrc=''
 mallocobj=''
 d_mymalloc="$undef"
 ;;
esac

@end
@if
 MALLOCPTRTYPE || Malloc_t || Free_t
: compute the return types of malloc and free
echo " "
$cat >malloc.c <<END
#$i_malloc I_MALLOC
#$i_stdlib I_STDLIB
#include <stdio.h>
#include <sys/types.h>
#ifdef I_MALLOC
#include <malloc.h>
#endif
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#ifdef TRY_MALLOC
void *malloc();
#endif
#ifdef TRY_FREE
void free();
#endif
END
@if MALLOCPTRTYPE || Malloc_t
case "$malloctype" in
'')
 if $cc $ccflags -c -DTRY_MALLOC malloc.c >/dev/null 2>&1; then
  malloctype='void *'
 else
  malloctype='char *'
 fi
 ;;
esac
echo "Your system wants malloc to return '$malloctype', it would seem." >&4
@end
```

```
@if Free_t
case "$freetype" in
")
 if $cc $ccflags -c -DTRY_FREE malloc.c >/dev/null 2>&1; then
  freetype='void'
 else
  freetype='int'
 fi
 ;;
esac
echo "Your system uses $freetype free(), it would seem." >&4
@end
$rm -f malloc.[co]
@end
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/mallocsrc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sigvec.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sigvec.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:45:37  ram
?RCS: patch61: there is now a separate routine for sigaction()
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X: d_sigvec.U, from d_ftime.U 1.0
?X:
?MAKE:d_sigvec d_sigvectr d_sigintrp: Csym Inlibc Setvar
?MAKE: -pick add $@ %<
?S:d_sigvec:
?S: This variable conditionally defines the HAS_SIGVEC symbol, which indicates
?S: that BSD
 reliable signals are supported.
?S:.
?S:d_sigvectr:
?S: This variable conditionally defines the HAS_SIGVECTOR symbol, which
```

```
?S: indicates that the sigvec() routine is called sigvector() instead, for
?S: reasons known only to Hewlett-Packard.
?S:.
?S:d_sigintrp:
?S: This variable conditionally defines the HAS_SIGINTRP symbol, which
?S: indicates that the siginterrupt() routine is available.
?S:.
?C:HAS_SIGVEC (SIGVEC):
?C: This symbol, if defined, indicates that BSD reliable signals are
?C: supported.
?C:.
?C:HAS_SIGVECTOR (SIGVECTOR):
?C: This symbol, if defined, indicates that the sigvec() routine is called
?C: sigvector() instead, and that sigspace() is provided instead of
?C: sigstack().  This is probably only true for HP-UX.
?C:.
?C:HAS_SIGINTRP (SIGINTRP):
?C: This symbol, if defined, indicates that the siginterrupt() routine
?C: is available.
?C:.
?H:#$d_sigvec HAS_SIGVEC /**/
?H:#$d_sigvectr HAS_SIGVECTOR /**/
?H:#$d_sigintrp HAS_SIGINTRP /**/
?H:.
?T:val
?LINT:set d_sigvec d_sigintrp
@if
 d_sigvectr || d_sigvec || HAS_SIGVEC || HAS_SIGVECTOR
: see if sigvector exists -- since sigvec will match the substring
echo " "
if set sigvector val -f d_sigvectr; eval $csym; $val; then
 echo 'sigvector() found--you must be running HP-UX.' >&4
 val="$define"; set d_sigvectr; eval $setvar
 val="$define"; set d_sigvec; eval $setvar
else
: try the original name
 d_sigvectr="$undef"
 if set sigvec val -f d_sigvec; eval $csym; $val; then
  echo 'sigvec() found.' >&4
  val="$define"; set d_sigvec; eval $setvar
 else
  echo 'sigvec() not found--race conditions with signals may occur.' >&4
  val="$undef"; set d_sigvec; eval $setvar
 fi
fi

@end
@if d_sigintrp || HAS_SIGINTRP
```

```
: see if we have siginterrupt
set siginterrupt d_sigintrp
eval $inlibc

@end
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sigvec.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_off64_t: \
 Inlibc Setvar Compile rm_try cat lseeksize
?MAKE: -pick add $@ %<
?S:d_off64_t:
?S: This symbol will be defined if the C compiler supports off64_t.
?S:.
?C:HAS_OFF64_T:
?C: This symbol will be defined if the C compiler supports off64_t.
?C:.
?H:#$d_off64_t HAS_OFF64_T  /**/
?H:.
?LINT:set d_off64_t
: check for off64_t
echo " "
echo "Checking to see if you have off64_t..." >&4
$cat >try.c <<EOCP
#include <sys/types.h>
#include <unistd.h>
int main() { off64_t x = 7; }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have off64_t."
else
 val="$undef"
 echo "You do not have off64_t."
 case "$lseeksize" in
 8) echo "(Your off_t is 64 bits, so you could use that.)" ;;
 esac
```

```
fi
$rm_try
set
 d_off64_t
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_off64_t.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: orderlib.U,v 3.0.1.4 1997/02/28 16:18:18 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: orderlib.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  16:18:18  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: likewise for .o replaced by $_o
?RCS: patch61: now uses the ar located by Loc.U
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:33:04  ram
?RCS: patch45: allows hint files to specify their own value for 'ranlib'
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:26:48  ram
?RCS: patch36: now performs a real small compile for accurate
 checks (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:31:17  ram
?RCS: patch32: use cc variable instead of hardwired 'cc' in 1st compile
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:orderlib ranlib: Loc ar cat test rm +cc +ccflags +ldflags +libs i_stdlib _a _o run
?MAKE: -pick add $@ %<
?S:orderlib:
?S: This variable is "true" if the components of libraries must be ordered
?S: (with `lorder $* | tsort`) before placing them in an archive.  Set to
?S: "false" if ranlib or ar can generate random libraries.
?S:.
?S:ranlib:
```

```
?S: This variable is set to the pathname of the ranlib program, if it is
?S: needed to generate random libraries.  Set to ":" if ar can generate
?S: random libraries or if random libraries are not supported
?S:.
?F:!foobar
: see if ar generates random libraries by itself
echo " "
echo "Checking how to generate random libraries on your machine..." >&4
?X: Some systems (like MIPS) complain when running
 ar... Others like Ultrix
?X: need an explicit 'ar ts' to add the table of contents.
?X: Still others like Linux run ar ts successfully, but still need ranlib.
?X: This set of tests seems the minimum necessary to check out Linux.
?X: We need to explicitly put the entries in out-of-order so that Sun's ld
?X: will fail.  (Otherwise it complains, but gives an exit status of 0.)
echo 'int bar1() { return bar2(); }' > bar1.c
echo 'int bar2() { return 2; }' > bar2.c
$cat > foo.c <<EOP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() { printf("%d\n", bar1()); exit(0); }
EOP
$cc $ccflags -c bar1.c >/dev/null 2>&1
$cc $ccflags -c bar2.c >/dev/null 2>&1
$cc $ccflags -c foo.c >/dev/null 2>&1
$ar rc bar$_a bar2$_o bar1$_o >/dev/null 2>&1
if $cc -o foobar $ccflags $ldflags foo$_o bar$_a $libs > /dev/null 2>&1 &&
 $run ./foobar >/dev/null 2>&1; then
 echo "$ar appears to generate random libraries itself."
 orderlib=false
 if [ "X$ranlib" = "X" ]; then
     ranlib=":"
 fi
elif
 $ar s bar$_a >/dev/null 2>&1 &&
 $cc -o foobar $ccflags $ldflags foo$_o bar$_a $libs > /dev/null 2>&1 &&
 $run ./foobar >/dev/null 2>&1; then
  echo "a table of contents needs to be added with '$ar s'."
  orderlib=false
  ranlib="$ar s"
elif $ar ts bar$_a >/dev/null 2>&1 &&
 $cc -o foobar $ccflags $ldflags foo$_o bar$_a $libs > /dev/null 2>&1 &&
 $run ./foobar >/dev/null 2>&1; then
  echo "a table of contents needs to be added with '$ar ts'."
  orderlib=false
  ranlib="$ar ts"
```

```
else
?X: Allow hints to specify their own ranlib "script". For instance, on
?X: some NeXT machines, the timestamp put by ranlib is not correct, and this
?X: may raise tedious recompiles for nothing. Therefore, NeXT may add the
?X: ranlib='sleep 5; /bin/ranlib' line in their hints to "fix" that.
?X: (reported by Andreas Koenig <k@franz.ww.tu-berlin.de>)
 case "$ranlib" in
 :) ranlib='';;
 '')
  ranlib=`./loc ranlib X /usr/bin /bin /usr/local/bin`
  $test -f $ranlib || ranlib=''
  ;;
 esac
 if $test -n "$ranlib";
 then
  echo "your system has '$ranlib'; we'll use that."
  orderlib=false
 else
  echo "your system doesn't seem to support random libraries"
  echo "so we'll use lorder and tsort to order the libraries."
  orderlib=true
  ranlib=':'
 fi
fi
$rm -f foo* bar*
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/orderlib.U
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```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_mkstemps: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkstemps:
?S: This variable conditionally defines the HAS_MKSTEMPS symbol, which
?S: indicates to the C program that the mkstemps() routine is available
?S: to exclusively create and open a uniquely named (with a suffix)
?S: temporary file.
?S:.
?C:HAS_MKSTEMPS :
?C: This symbol, if defined, indicates that the mkstemps routine is
```

```
?C: available to exclusively create and open a uniquely named
?C: (with a suffix) temporary file.
?C:.
?H:#$d_mkstemps HAS_MKSTEMPS  /**/
?H:.
?LINT:set d_mkstemps
: see if mkstemps exists
set mkstemps d_mkstemps
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_mkstemps.U
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```
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: End.U,v $
?RCS: Revision 3.0  1993/08/18  12:04:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit serves as the goal which forces make to choose all the units that
?X: ask questions.  The $W on the ?MAKE: line is the list of all symbols wanted.
?X: To force any unit to be included, copy this unit to your private U directory
?X: and add the name of the unit desired to the ?MAKE: dependency line.
?X:
?MAKE:End: $W
?MAKE: -pick add $@ %<
?LINT:use $W
: end of configuration
 questions
echo " "
echo "End of configuration questions."
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/End.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Filexp.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  15:52:53  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: added HOME to the ?T: line since metalint now checks ${HOME}
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:03:00  ram
?RCS: patch23: made sure error status from csh is propagated (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:53  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which will expand filenames beginning
?X:
 with tildes.  The script is deleted at the end of Configure.
?X:
?MAKE:Filexp: startsh sed test expr eunicefix
?MAKE: -pick add $@ %<
?F:./filexp
?T:HOME LOGDIR dir me name failed
: set up shell script to do ~ expansion
cat >filexp <<EOSS
$startsh
: expand filename
?X:
?X: The case entries below escape the ~ as some shells have shown expansion
?X: of the ~ during here-doc processing.
?X:
case "\$1" in
\~/*|\~)
 echo \$1 | $sed "s|~|\${HOME-\$LOGDIR}|"
 ;;
\~*)
 if $test -f /bin/csh; then
  /bin/csh -f -c "glob \$1"
  failed=\$?
  echo ""
  exit \$failed
```

```
 else
  name=\`$expr x\$1 : '..\([^/]*\)'\`
  dir=\`$sed -n -e "/^\${name}:/{s/^[^:]*:[^:]*:[^:]*:[^:]*:[^:]*:[^:]*:\([^:]*\).*'''\$'''/\1/" -e p -e q -e '}' </etc/passwd\`
  if $test ! -d "\$dir"; then
   me=\`basename \$0\`
   echo "\$me: can't locate home directory for: \$name" >&2
   exit 1
  fi
  case "\$1" in
  */*)
   echo \$dir/\`$expr x\$1 : '..[^/]*/\(.*\)'\`
   ;;
  *)
   echo \$dir
   ;;
  esac
 fi
 ;;
*)
 echo \$1
 ;;
esac
EOSS
chmod
 +x filexp
$eunicefix filexp
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Filexp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_PRId64 d_PRIi64 d_PRIu64 d_PRIo64 d_PRIx64 d_PRIXU64 \
 sPRId64 sPRIi64 sPRIu64 sPRIo64 sPRIx64 sPRIXU64: \
 quadtype i_inttypes test cat rm_try Setvar Compile run
?MAKE: -pick add $@ %<
?S:d_PRId64:
?S: This variable conditionally defines the PERL_PRId64 symbol, which
?S: indicates that stdio has a symbol to print 64-bit decimal numbers.
?S:.
?S:d_PRIi64:
```

?S: This variable conditionally defines the PERL_PRIi64 symbol, which
?S: indicates that stdio has a symbol to print 64-bit decimal numbers.
?S:.
?S:d_PRIu64:
?S: This variable conditionally defines the PERL_PRIu64 symbol, which
?S: indicates that stdio has a symbol to print 64-bit unsigned decimal
?S: numbers.
?S:.
?S:d_PRIo64:
?S: This variable
 conditionally defines the PERL_PRIo64 symbol, which
?S: indicates that stdio has a symbol to print 64-bit octal numbers.
?S:.
?S:d_PRIx64:
?S: This variable conditionally defines the PERL_PRIx64 symbol, which
?S: indicates that stdio has a symbol to print 64-bit hexadecimal numbers.
?S:.
?S:d_PRIXU64:
?S: This variable conditionally defines the PERL_PRIXU64 symbol, which
?S: indicates that stdio has a symbol to print 64-bit hExADECimAl numbers.
?S: The 'U' in the name is to separate this from d_PRIx64 so that even
?S: case-blind systems can see the difference.
?S:.
?S:sPRId64:
?S: This variable, if defined, contains the string used by stdio to
?S: format 64-bit decimal numbers (format 'd') for output.
?S:.
?S:sPRIi64:
?S: This variable, if defined, contains the string used by stdio to
?S: format 64-bit decimal numbers (format 'i') for output.
?S:.
?S:sPRIu64:
?S: This variable, if defined, contains the string used by stdio to
?S: format 64-bit unsigned decimal numbers (format 'u')
 for output.
?S:.
?S:sPRIo64:
?S: This variable, if defined, contains the string used by stdio to
?S: format 64-bit octal numbers (format 'o') for output.
?S:.
?S:sPRIx64:
?S: This variable, if defined, contains the string used by stdio to
?S: format 64-bit hexadecimal numbers (format 'x') for output.
?S:.
?S:sPRIXU64:
?S: This variable, if defined, contains the string used by stdio to
?S: format 64-bit hExADECimAl numbers (format 'X') for output.
?S: The 'U' in the name is to separate this from sPRIx64 so that even

```
?S: case-blind systems can see the difference.
?S:.
?C:PERL_PRId64:
?C: This symbol, if defined, contains the string used by stdio to
?C: format 64-bit decimal numbers (format 'd') for output.
?C:.
?C:PERL_PRIi64:
?C: This symbol, if defined, contains the string used by stdio to
?C: format 64-bit decimal numbers (format 'i') for output.
?C:.
?C:PERL_PRIu64:
?C: This symbol, if defined, contains the string used by stdio to
?C: format 64-bit unsigned decimal numbers (format 'u')
 for output.
?C:.
?C:PERL_PRIo64:
?C: This symbol, if defined, contains the string used by stdio to
?C: format 64-bit octal numbers (format 'o') for output.
?C:.
?C:PERL_PRIx64:
?C: This symbol, if defined, contains the string used by stdio to
?C: format 64-bit hexadecimal numbers (format 'x') for output.
?C:.
?C:PERL_PRIXU64:
?C: This symbol, if defined, contains the string used by stdio to
?C: format 64-bit hExADECimAl numbers (format 'X') for output.
?C:.
?H:#$d_PRId64 PERL_PRId64 $sPRId64 /**/
?H:#$d_PRIi64 PERL_PRIi64 $sPRIi64 /**/
?H:#$d_PRIu64 PERL_PRIu64 $sPRIu64 /**/
?H:#$d_PRIo64 PERL_PRIo64 $sPRIo64 /**/
?H:#$d_PRIx64 PERL_PRIx64 $sPRIx64 /**/
?H:#$d_PRIx64 PERL_PRIXU64 $sPRIXU64 /**/
?H:.
?T:yyy
?F:!try
: Check 64bit sizes
echo " "

if $test X"$quadtype" != X; then

echo "Checking how to print 64-bit integers..." >&4

if $test X"$sPRId64" = X -a X"$quadtype" = Xint; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
```

```
 int q = 12345678901;

 printf("%ld\n", q);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  12345678901)
   sPRId64="'d'"; sPRIi64="'i'"; sPRIu64="'u'";
   sPRIo64="'o'"; sPRIx64="'x'"; sPRIXU64="'X'";
   echo "We will use %d."
   ;;
  esac
 fi
fi

if $test X"$sPRId64" = X -a X"$quadtype" = Xlong; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
 long q = 12345678901;
 printf("%ld\n", q);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  12345678901)
   sPRId64="'ld'"; sPRIi64="'li'"; sPRIu64="'lu'";
   sPRIo64="'lo'"; sPRIx64="'lx'"; sPRIXU64="'lX'";
   echo "We will use %ld."
   ;;
  esac
 fi
fi

if $test X"$sPRId64" = X -a X"$i_inttypes" = X"$define" -a X"$quadtype" = Xint64_t; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <inttypes.h>
#include <stdio.h>
int main() {
 int64_t q = 12345678901;
 printf("%" PRId64 "\n", q);
```

```
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  12345678901)
   sPRId64=PRId64;
 sPRIi64=PRIi64; sPRIu64=PRIu64;
   sPRIo64=PRIo64; sPRIx64=PRIx64; sPRIXU64=PRIXU64;
   echo "We will use the C9X style."
   ;;
  esac
 fi
fi

if $test X"$sPRId64" = X -a X"$quadtype" != X; then
 $cat >try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
int main() {
 $quadtype q = 12345678901;
 printf("%Ld\n", q);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  12345678901)
   sPRId64='"Ld"'; sPRIi64='"Li"'; sPRIu64='"Lu"';
   sPRIo64='"Lo"'; sPRIx64='"Lx"'; sPRIXU64='"LX"';
   echo "We will use %Ld."
   ;;
  esac
 fi
fi

if $test X"$sPRId64" = X -a X"$quadtype" = X"long long"; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
 long long q = 12345678901LL; /* AIX cc requires the LL suffix. */
 printf("%lld\n", q);
}
EOCP
 set try
```

```
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  12345678901)
   sPRId64='"lld"'; sPRIi64='"lli"'; sPRIu64='"llu"';
   sPRIo64='"llo"'; sPRIx64='"llx"';
 sPRIXU64='"llX"';
   echo "We will use the %lld style."
   ;;
  esac
 fi
fi

if $test X"$sPRId64" = X -a X"$quadtype" != X; then
 $cat >try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
int main() {
 $quadtype q = 12345678901;
 printf("%qd\n", q);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  12345678901)
   sPRId64='"qd"'; sPRIi64='"qi"'; sPRIu64='"qu"';
   sPRIo64='"qo"'; sPRIx64='"qx"'; sPRIXU64='"qX"';
   echo "We will use %qd."
   ;;
  esac
 fi
fi

if $test X"$sPRId64" = X; then
 echo "Cannot figure out how to print 64-bit integers." >&4
fi
$rm_try

fi

case "$sPRId64" in
") d_PRId64="$undef"; d_PRIi64="$undef"; d_PRIu64="$undef";
 d_PRIo64="$undef"; d_PRIx64="$undef"; d_PRIXU64="$undef";
 ;;
*) d_PRId64="$define"; d_PRIi64="$define"; d_PRIu64="$define";
 d_PRIo64="$define"; d_PRIx64="$define"; d_PRIXU64="$define";
```

```
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/quadfio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_qgcvt: Inlibc
?MAKE: -pick add $@ %<
?S:d_qgcvt:
?S: This variable conditionally defines the HAS_QGCVT symbol, which
?S: indicates to the C program that the qgcvt() routine is available.
?S:.
?C:HAS_QGCVT:
?C: This symbol, if defined, indicates that the qgcvt routine is
?C: available to convert long doubles ("quad doubles") to strings.
?C: This is a low-level routine hopefully faster than sprintf.
?C:.
?H:#$d_qgcvt HAS_QGCVT  /**/
?H:.
?LINT:set d_qgcvt
: see if qgcvt exists
set qgcvt d_qgcvt
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_qgcvt.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_msghdr_s: Hasstruct i_systypes d_socket i_sysuio Setvar
?MAKE: -pick add $@ %<
?S:d_msghdr_s:
```

```
?S: This variable conditionally defines the HAS_STRUCT_MSGHDR symbol,
?S: which indicates that the struct msghdr is supported.
?S:.
?C:HAS_STRUCT_MSGHDR:
?C: This symbol, if defined, indicates that the struct msghdr
?C: is supported.
?C:.
?H:#$d_msghdr_s HAS_STRUCT_MSGHDR /**/
?H:.
?LINT:set d_msghdr_s
: Check for msghdr_s
echo " "
echo "Checking to see if your system supports struct msghdr..." >&4
set d_msghdr_s msghdr $i_systypes sys/types.h $d_socket sys/socket.h $i_sysuio sys/uio.h
eval $hasstruct
case "$d_msghdr_s" in
"$define")      echo "Yes, it does."   ;;
*)              echo "No, it doesn't."
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_msghdr_s.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:siteman3dir siteman3direxp installsiteman3dir: Getfile \
 Setprefixvar prefix siteprefix man3dir sed
?MAKE: -pick add $@ %<
?Y:TOP
?D:siteman3dir="
?S:siteman3dir:
?S: This variable contains the name of the directory in which site-specific
?S: library man source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S: The standard distribution will put nothing in this directory.
?S: After
```

```
 perl has been installed, users may install their own local
?S: man3 pages in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:siteman3direxp="
?S:siteman3direxp:
?S: This variable is the same as the siteman3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsiteman3dir="
?S:installsiteman3dir:
?S: This variable is really the same as siteman3direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man3direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installsiteman3dir
?LINT:set siteman3dir
?LINT:set siteman3direxp
: determine where add-on library man pages go
case "$siteman3dir" in
") dflt=`echo $man3dir | $sed "s#^$prefix#$siteprefix#"` ;;
*) dflt=$siteman3dir ;;
esac
case "$dflt" in
"|' ') dflt=none ;;
esac
fn=dn+~
rp='Pathname
 where the site-specific library manual pages should be installed?'
. ./getfile
prefixvar=siteman3dir
. ./setprefixvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/siteman3dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_mktime.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_mktime.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:09:44  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_mktime: Inlibc
?MAKE: -pick add $@ %<
?S:d_mktime:
?S: This variable conditionally defines the HAS_MKTIME symbol, which
?S: indicates to the C program that the mktime() routine is available.
?S:.
?C:HAS_MKTIME :
?C: This symbol, if defined, indicates that the mktime routine
 is
?C: available.
?C:.
?H:#$d_mktime HAS_MKTIME  /**/
?H:.
?LINT:set d_mktime
: see if mktime exists
set mktime d_mktime
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_mktime.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Rcs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Rcs.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This is a unit that helps people who write SH scripts and keep them under
```

```
?X: RCS, but don't think to protect the $Log and other $Id keywords from
?X: variable substitution (or people like me who do not like to).
?X:
?MAKE:Author Date Header Id Locker Log RCSfile Revision Source State: Oldconfig
?MAKE: -pick weed $@ %<
?LINT:describe Author
 Date Header Id Locker Log RCSfile Revision Source State
: preserve RCS keywords in files with variable substitution, grrr
?Author:Author='$Author'
?Date:Date='$Date'
?Header:Header='$Header'
?Id:Id='$Id'
?$Locker'
?Log:Log='$Log'
?RCSfile:RCSfile='$RCSfile'
?Revision:Revision='$Revision'
?Source:Source='$Source'
?State:State='$State'
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Rcs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_mkdtemp: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkdtemp:
?S: This variable conditionally defines the HAS_MKDTEMP symbol, which
?S: indicates to the C program that the mkdtemp() routine is available
?S: to exclusively create a uniquely named temporary directory.
?S:.
?C:HAS_MKDTEMP :
?C: This symbol, if defined, indicates that the mkdtemp routine is
?C: available to exclusively create a uniquely named temporary directory.
?C:.
?H:#$d_mkdtemp HAS_MKDTEMP  /**/
?H:.
?LINT:set d_mkdtemp
: see if mkdtemp exists
set mkdtemp d_mkdtemp
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_mkdtemp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_localtime_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS: Copyright (c) 2006,2007 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_localtime_r d_localtime_r_needs_tzset localtime_r_proto: Inlibc \
 cat run Protochk Hasproto i_systypes usethreads i_time i_systime \
 rm_try Compile extern_C i_stdlib i_unistd i_malloc
?MAKE: -pick add $@ %<
?S:d_localtime_r:
?S: This variable conditionally defines the HAS_LOCALTIME_R symbol,
?S: which indicates to the C program that the localtime_r()
?S: routine is available.
?S:.
?S:d_localtime_r_needs_tzset:
?S: This variable conditionally defines the LOCALTIME_R_NEEDS_TZSET
?S: symbol, which makes us call tzset before localtime_r()
?S:.
?S:localtime_r_proto:
?S: This
 variable encodes the prototype of localtime_r.
?S: It is zero if d_localtime_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_localtime_r
?S: is defined.
?S:.
?C:HAS_LOCALTIME_R:
?C: This symbol, if defined, indicates that the localtime_r routine
?C: is available to localtime re-entrantly.
?C:.
?C:LOCALTIME_R_NEEDS_TZSET:
?C: Many libc's localtime_r implementations do not call tzset,
?C: making them differ from localtime(), and making timezone
?C: changes using \$ENV{TZ} without explicitly calling tzset
?C: impossible. This symbol makes us call tzset before localtime_r
?C:.
?H:?%<:#$d_localtime_r_needs_tzset LOCALTIME_R_NEEDS_TZSET /**/
?H:?%<:#ifdef LOCALTIME_R_NEEDS_TZSET
?H:?%<:#define L_R_TZSET tzset(),
```

```
?H:?%<:#else
?H:?%<:#define L_R_TZSET
?H:?%<:#endif
?H:.
?W:%<:L_R_TZSET
?C:L_R_TZSET:
?C: If localtime_r() needs tzset, it is defined in this define
?C:.
?C:LOCALTIME_R_PROTO:
?C: This symbol encodes the prototype of localtime_r.
?C: It is
 zero if d_localtime_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_localtime_r
?C: is defined.
?C:.
?H:#$d_localtime_r HAS_LOCALTIME_R /**/
?H:#define LOCALTIME_R_PROTO $localtime_r_proto /**/
?H:.
?T:try hdrs d_localtime_r_proto
?F:!try
: see if localtime_r exists
set localtime_r d_localtime_r
eval $inlibc
case "$d_localtime_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_time time.h $i_systime sys/time.h"
 case "$d_localtime_r_proto:$usethreads" in
 ":define") d_localtime_r_proto=define
  set d_localtime_r_proto localtime_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_localtime_r_proto" in
 define)
 case "$localtime_r_proto" in
 "|0) try='struct tm* localtime_r(const time_t*, struct tm*);'
 ./protochk "$extern_C $try" $hdrs && localtime_r_proto=S_TS ;;
 esac
 case "$localtime_r_proto" in
 "|0) try='int localtime_r(const time_t*, struct tm*);'
 ./protochk "$extern_C $try" $hdrs && localtime_r_proto=I_TS ;;
 esac
 case "$localtime_r_proto"
 in
 "|0) d_localtime_r=undef
  localtime_r_proto=0
  echo "Disabling localtime_r, cannot determine prototype." >&4 ;;
 * ) case "$localtime_r_proto" in
```

```
  REENTRANT_PROTO*) ;;
  *) localtime_r_proto="REENTRANT_PROTO_$localtime_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "localtime_r has no prototype, not using it." >&4 ;;
  esac
  d_localtime_r=undef
  localtime_r_proto=0
  ;;
 esac
 ;;
*) localtime_r_proto=0
 ;;
esac

: see if localtime_r calls tzset
case "$localtime_r_proto" in
REENTRANT_PROTO*)
 $cat >try.c <<EOCP
/*  Does our libc's localtime_r call tzset ?
*  return 0 if so, 1 otherwise.
*/
#$i_systypes I_SYS_TYPES
#$i_unistd I_UNISTD
#$i_time I_TIME
#$i_stdlib I_STDLIB
#$i_malloc I_MALLOC
#ifdef I_SYS_TYPES
#  include <sys/types.h>
#endif
#ifdef I_UNISTD
#  include <unistd.h>
#endif
#ifdef I_TIME
#  include <time.h>
#endif
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <string.h>
#ifdef I_MALLOC
#  include <malloc.h>
#endif
int
```

```
 main()
{
   int result = 0;
   time_t t = time(0L);
   char w_tz[]="TZ" "=GMT+5",
  e_tz[]="TZ" "=GMT-5",
 *tz_e = (char*)malloc(16),
 *tz_w = (char*)malloc(16);
   struct tm tm_e, tm_w;
   memset(&tm_e,'\0',sizeof(struct tm));
   memset(&tm_w,'\0',sizeof(struct tm));
   strcpy(tz_e,e_tz);
   strcpy(tz_w,w_tz);

   putenv(tz_e);
   localtime_r(&t, &tm_e);

   putenv(tz_w);
   localtime_r(&t, &tm_w);

   if( memcmp(&tm_e, &tm_w, sizeof(struct tm)) == 0 )
 result = 1;

   free(tz_e);free(tz_w);
   return result;
}
EOCP
 set try
 if eval $compile; then
     if $run ./try; then
  d_localtime_r_needs_tzset=undef;
     else
  d_localtime_r_needs_tzset=define;
     fi;
 else
     d_localtime_r_needs_tzset=undef;
 fi;
    ;;
 *)
    d_localtime_r_needs_tzset=undef;
    ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_localtime_r.U

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```
?RCS: $Id: d_fchown.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_fchown.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_fchown: Inlibc
?MAKE: -pick add $@ %<
?S:d_fchown:
?S: This variable conditionally defines the HAS_FCHOWN symbol, which
?S: indicates to the C program that the fchown() routine is available
?S: to change ownership of opened files.
?S:.
?C:HAS_FCHOWN (FCHOWN):
?C: This symbol, if defined, indicates that the fchown routine is available
?C: to
 change ownership of opened files.  If unavailable, use chown().
?C:.
?H:#$d_fchown HAS_FCHOWN  /**/
?H:.
?LINT:set d_fchown
: see if fchown exists
set fchown d_fchown
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_fchown.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_poll.U 15 2006-08-30 18:21:51Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_poll.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:38:17  ram
?RCS: patch61: mention that <poll.h> can be included if HAS_POLL defined
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:26:31  ram
?RCS: patch45: created
?RCS:
?MAKE:d_poll: Inlibc
?MAKE: -pick add $@ %<
?S:d_poll:
?S: This variable conditionally defines the HAS_POLL symbol, which
?S: indicates to the C program that the poll() routine is available
?S: to poll active file descriptors.
?S:.
?C:HAS_POLL
 :
?C: This symbol, if defined, indicates that the poll routine is
?C: available to poll active file descriptors.  Please check I_POLL and
?C: I_SYS_POLL to know which header should be included as well.
?C:.
?H:#$d_poll HAS_POLL  /**/
?H:.
?LINT:set d_poll
: see if poll exists
set poll d_poll
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_poll.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_logb: Inlibc
?MAKE: -pick add $@ %<
?S:d_logb:
?S: This variable conditionally defines the HAS_LOGB symbol, which
?S: indicates to the C program that the logb() routine is available
?S: to extract the exponent of x.
?S:.
?C:HAS_LOGB:
?C: This symbol, if defined, indicates that the logb routine is
?C: available to do the logb function.
?C:.
```

```
?H:#$d_logb HAS_LOGB  /**/
?H:.
?LINT:set d_logb
: see if logb exists
set logb d_logb
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_logb.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_access.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_access: test +cc cat +cppflags h_fcntl h_sysfile rm Inlibc Findhdr
?MAKE: -pick add $@ %<
?S:d_access:
?S: This variable conditionally defines HAS_ACCESS if the access() system
?S: call is available to check for access permissions using real IDs.
?S:.
?C:HAS_ACCESS:
?C: This manifest constant lets the C program know that the access()
?C: system call is available to check for accessibility
 using real UID/GID.
?C: (always present on UNIX.)
?C:.
?H:#$d_access HAS_ACCESS  /**/
?H:.
?W:%<:R_OK W_OK X_OK F_OK
?LINT:set d_access
?LINT:change h_fcntl h_sysfile
: access call always available on UNIX
set access d_access
eval $inlibc

: locate the flags for 'access()'
```

```
case "$d_access" in
"$define")
 echo " "
 $cat >access.c <<'EOCP'
#include <sys/types.h>
#ifdef I_FCNTL
#include <fcntl.h>
#endif
#ifdef I_SYS_FILE
#include <sys/file.h>
#endif
#ifdef I_UNISTD
#include <unistd.h>
#endif
int main() {
 exit(R_OK);
}
EOCP
 : check sys/file.h first, no particular reason here
 if $test `./findhdr sys/file.h` && \
  $cc -o access $cppflags -DI_SYS_FILE access.c >/dev/null 2>&1 ; then
  h_sysfile=true;
  echo "<sys/file.h> defines the *_OK access constants." >&4
 elif $test `./findhdr fcntl.h` && \
  $cc -o access $cppflags -DI_FCNTL access.c >/dev/null 2>&1 ; then
  h_fcntl=true;
  echo "<fcntl.h> defines the *_OK access constants." >&4
@if I_UNISTD
 elif $test `./findhdr unistd.h`
 && \
  $cc -o access $cppflags -DI_UNISTD access.c >/dev/null 2>&1 ; then
  echo "<unistd.h> defines the *_OK access constants." >&4
@end
 else
  echo "I can't find the four *_OK access constants--I'll use mine." >&4
 fi
 ;;
esac
$rm -f access*
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_access.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_semget.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_semget.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_semget: Inlibc
?MAKE: -pick add $@ %<
?S:d_semget:
?S: This variable conditionally defines the HAS_SEMGET symbol, which
?S: indicates to the C program that the semget() routine is available.
?S:.
?C:HAS_SEMGET:
?C: This symbol, if defined, indicates that the semget() routine is
?C: available to get a set of semaphores.
?C:.
?H:#$d_semget
 HAS_SEMGET /**/
?H:.
?LINT:set d_semget
: see if semget exists
set semget d_semget
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_semget.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysuio.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysuio: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysuio:
?S: This variable conditionally defines the I_SYSUIO symbol, and indicates
?S: whether a C program should include <sys/uio.h>.
?S:.
?C:I_SYSUIO:
```

```
?C: This symbol, if defined, indicates that <sys/uio.h> exists and
?C: should be included.
?C:.
?H:#$i_sysuio I_SYSUIO  /**/
?H:.
?LINT:set i_sysuio
: see if this is a sys/uio.h system
set sys/uio.h i_sysuio
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_sysuio.U
No license file was found, but licenses were detected in source scan.

```
;###########################################################################
;# Jmake rules for building libraries, programs, scripts, and data files
;# $Id: Jmake.rules 18 2006-12-27 10:35:09Z rmanfredi $

/*
*     MACHINE-INDEPENDENT RULES -- DO NOT MODIFY
*/

/* $Id: Jmake.rules 18 2006-12-27 10:35:09Z rmanfredi $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* $Log: Jmake.rules,v $
* Revision 3.0.1.7  2004/08/22 08:28:58  ram
* patch71: random cleanup
*
* Revision 3.0.1.6  1997/02/28  14:56:01  ram
* patch61: now handles USRINC for dependencies
* patch61: smarter about dependencies
 computation
*
* Revision 3.0.1.5  1995/09/25  09:07:19  ram
* patch59: smarter sed command to strip /usr/include dependencies
*
* Revision 3.0.1.4  1995/07/25  13:33:59  ram
* patch56: install of script man pages can now cope with missing files
* patch56: the clobber target now removes the .config directory as well
```

```
*
* Revision 3.0.1.3  1995/03/21  08:35:28  ram
* patch52: suppressed extra argument to NormalProgramTarget call
*
* Revision 3.0.1.2  1995/01/11  14:49:55  ram
* patch45: new macros ShellScriptTargetExt and SimpleShellScriptTargetExt
* patch45: directory installation is now made via INSTALLDIR (Configure)
*
* Revision 3.0.1.1  1994/10/29  15:46:30  ram
* patch36: added RemoteDependency rule
*
* Revision 3.0  1993/08/18  12:04:14  ram
* Baseline for dist 3.0 netwide release.
*
*/

/* Please, edit only with tabstops = 4 (":set ts=4" under vi) */

/*
* AddedByConfigure:
* Gives name of the files generated by Configure that can safely
* be removed
 when a "make clobber" is issued. Not that it is useless
* to name config.h or config.sh because these are already taken care
* of by jmake.
*/
#define AddedByConfigure(files) @!\
local_clobber::   @@\
 $(RM) files

/*
* AddSuffix:
* Adds a sufix to the .SUFFIXES: list.
*/
#define AddSuffix(ext) @!\
|suffix ext


/*
* AllTarget:
* Generate rules to build necessary things during make all.
*/
#define AllTarget(depends) @!\
all:: depends    @!\
      @!\
local_realclean::   @@\
 $(RM) depends
```

```
/*
* RemoveTargetProgram:
* This is used in some other macros in order to remove the target
* before starting its building (saves disk space).  There should be
* no '@!' at the end of the '#define' line, because this macro is
* used *inside* building rules.
*/
#define RemoveTargetProgram(program) \
 $(RM) program @@\
 if test -f program^^^$(_EXE); then \ @@\
  $(MV) program^^^$(_EXE) program^^~^^^$(_EXE); fi

/*
* NormalProgramTarget:
* Generate rules to compile and link the
 indicated program; since
* it does not use any default object files, it may be used for
* multiple programs in the same Jmakefile.
*/
#define NormalProgramTarget(program,sources,objects) @!\
++OBJECTS objects @!\
++SOURCES sources @!\
NormalObjectRule()    @!\
AllTarget(program)    @!\
       @!\
program: objects    @@\
 RemoveTargetProgram($@)  @@\
 $(CC) -o $@ objects $(JLDFLAGS) $(LIBS) @!\


/*
* SingleProgramTarget:
* Obsolete version of NormalProgramTarget that doesn't have
* deplibs.
*/
#define SingleProgramTarget(program,objects,libs)  \
NormalProgramTarget(program,objects,libs)

/*
* SimpleProgramTarget:
* Generate rules for compiling and linking programs that only have
* one C source file.  It should only be used in Jmakefiles that
* describe a single program.
*/
#define SimpleProgramTarget(program) @!\
NormalProgramTarget(program,program.c,program.o)
```

```
/*
* ComplexProgramTarget:
* Generate rules for compiling and linking the program specified by
* $(OBJS) and
 $(SRCS), installing the program and its man page, and
* generating dependencies.  It should only be used in Jmakefiles
* that describe a single program.
*/
#define ComplexProgramTarget(program) @!\
++OBJECTS $(OBJS) @!\
++SOURCES $(SRCS) @!\
NormalObjectRule()     @!\
AllTarget(program)     @!\
        @!\
program: $(OBJS)     @@\
 RemoveTargetProgram($@)   @@\
 $(CC) -o $@ $(OBJS) $(JLDFLAGS) $(LIBS) @!\
        @!\
InstallProgram(program,$(BINDIR)) @!\
InstallManPage(program,$(MANSRC)) @!\
DependTarget()      @!\
LintTarget()


/*
* ComplexProgramTarget_1:
* Generate rules for compiling and linking the program specified by
* $(OBJS1) and $(SRCS1), installing the program and its man page,
* and generating dependencies for it and any programs described by
* $(SRCS2) and $(SRCS3).  It should be used to build the primary
* program in Jmakefiles that describe multiple programs.
*/
#define ComplexProgramTarget_1(program) @!\
++OBJECTS $(OBJS1) @!\
++SOURCES $(SRCS1) @!\
NormalObjectRule()     @!\
AllTarget(program)     @!\
        @!\
program:
 $(OBJS1)     @@\
 RemoveTargetProgram($@)   @@\
 $(CC) -o $@ $(OBJS1) $(JLDFLAGS) $(LIBS) @!\
        @!\
InstallProgram(program,$(BINDIR)) @!\
InstallManPage(program,$(MANSRC)) @!\
        @!\
DependTarget()      @!\
```

```
LintTarget()


/*
* ComplexProgramTarget_2:
* Generate rules for compiling and linking the program specified by
* $(OBJS2) and $(SRCS2) and installing the program and man page.
* It should be used to build the second program in Jmakefiles
* describing more than one program.
*/
#define ComplexProgramTarget_2(program) @!\
++OBJECTS $(OBJS2) @!\
++SOURCES $(SRCS2) @!\
NormalObjectRule()     @!\
AllTarget(program)     @!\
        @!\
program: $(OBJS2)     @@\
 RemoveTargetProgram($@)   @@\
 $(CC) -o $@ $(OBJS2) $(JLDFLAGS) $(LIBS) @!\
        @!\
InstallProgram(program,$(BINDIR)) @!\
InstallManPage(program,$(MANSRC))


/*
* ComplexProgramTarget_3:
* Generate rules for compiling and linking the
 program specified by
* $(OBJS3) and $(SRCS3) and installing the program and man page.  It
* should be used to build the third program in Jmakefiles describing
* more than one program.
*/
#define ComplexProgramTarget_3(program) @!\
++OBJECTS $(OBJS3) @!\
++SOURCES $(SRCS3) @!\
NormalObjectRule()     @!\
AllTarget(program)     @!\
        @!\
program: $(OBJS3)     @@\
 RemoveTargetProgram($@)   @@\
 $(CC) -o $@ $(OBJS3) $(JLDFLAGS) $(LIBS) @!\
        @!\
InstallProgram(program,$(BINDIR)) @!\
InstallManPage(program,$(MANSRC))


/*
* ComplexShellManualTarget:
```

```
* Builds manual pages that are to be extracted from .SH files into
* .$manext files.
*/
#define ComplexShellManualTarget(manpages) @!\
++MANPAGE manpages @!\
|once _ShellManualRule_  @!\
|rule:.SH.$manext:   @!\
|rule: /bin/sh $<   @!\
|rule:      @!\
-once      @!\
AddSuffix(.SH)    @!\
AddSuffix(.$manext)   @!\
AllTarget(manpages)   @!\
      @!\
local_install.man::   @@\
 _MakeInstallDirIgnore($(MANSRC)) \     @@\
 for
 file in manpages; do \  @@\
  (set -x; $(INSTALL) -c -m 444 $$file \ @@\
   $(INSTALL_PREFIX)$(MANSRC)) || exit 1; \ @@\
 done     @!\
      @!\
local_deinstall.man::  @@\
 @case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
 for file in manpages; do \  @@\
  (set -x; $(RM) $(INSTALL_PREFIX)$(MANSRC)/$$file); \ @@\
 done


/*
* Initialize:
* Puts the line symbol = value in the initialization section of
* Makefile.SH (the one that is subject to parameter substitutions).
*/
#define Initialize(symbol,value) @!\
+symbol = value


/*
* InstallLibrary:
* Generate rules to install the indicated library.
*/
#define InstallLibrary(libname,dest) @!\
local_install:: lib^^libname.a  @@\
 _MakeInstallDirIgnore(dest) \ @@\
 $(INSTALL) -c -m 644 lib^^libname.a $(INSTALL_PREFIX)^^^dest  @@\
 $(RANLIB) dest/lib^^libname.a @@\
 chmod 444 dest/lib^^libnane.a @!\
```

```
        @!\
local_deinstall::     @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/lib^^libname.a


/*
* InstallSharedLibrary:
* Generate rules to install
 the shared library.
*/
#define InstallSharedLibrary(libname,rev,dest) @!\
local_install:: lib^^libname.so.rev  @@\
 _MakeInstallDirIgnore(dest) \  @@\
 $(INSTALL) -c -m 444 lib^^libname.so.rev $(INSTALL_PREFIX)^^^dest @!\
        @!\
local_deinstall::     @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/lib^^libname.so.rev


/*
* InstallSharedLibraryData:
* Generate rules to install the shared library data
*/
#define InstallSharedLibraryData(libname,rev,dest) @!\
local_install:: lib^^libname.sa.rev  @@\
 _MakeInstallDirIgnore(dest) \  @@\
 $(INSTALL) -c -m 444 lib^^libname.sa.rev $(INSTALL_PREFIX)^^^dest @!\
        @!\
local_deinstall::     @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/lib^^libname.sa.rev


/*
* InstallLibraryAlias:
* Generate rules to create a link from one library name to another
* for the purposes of aliasing.
*/
#define InstallLibraryAlias(libname,alias,dest) @!\
local_install:: lib^^libname.a @@\
 $(RM) lib^^alias.a  @@\
 -(cd dest; $(LN) lib^^libname.a lib^^alias.a)
 @!\
      @!\
local_deinstall::   @@\
 $(RM) dest/lib^^alias.a


/*
```

```
* InstallLintLibrary:
* Generate rules to install the indicated lint library.
*/
#define InstallLintLibrary(libname,dest) @!\
install.ln:: llib-l^^libname.ln   @@\
 _MakeInstallDirIgnore(dest) \  @@\
 $(INSTALL) -c -m 444 llib-l^^libname.ln $(INSTALL_PREFIX)^^^dest @!\
      @!\
deinstall.ln::    @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/llib-l^^libname.ln


/*
* InstallManPageLong:
* Generate rules to install the indicated manual page, giving it an
* alternate name.  This is used for installing man pages whose base
* name without the .man suffix would normally be longer than 8
* characters (the limit for using source code control systems on
* files systems with short file names).
*/
#define InstallManPageLong(file,destdir,dest) @!\
local_install.man:: file.man   @@\
 _MakeInstallDirIgnore(destdir) \ @@\
 $(INSTALL) -c -m 444 file.man $(INSTALL_PREFIX)^^^destdir/dest.$(L) @!\
        @!\
local_deinstall.man::     @@\
 $(RM)
 $(INSTALL_PREFIX)^^^destdir/dest.$(L)  @!\


/*
* InstallManPage:
* Generate rules to install the indicated manual page.
*/
#define InstallManPage(file,dest) @!\
InstallManPageLong(file,dest,file)


/*
* InstallNonExec:
* Generate rules to install a data file using any special
*  install flags.
*/
#define InstallNonExec(file,dest) @!\
local_install:: file    @@\
 _MakeInstallDirIgnore(dest) \ @@\
 $(INSTALL) -c -m 444 file $(INSTALL_PREFIX)^^^dest @!\
        @!\
```

```
local_deinstall::     @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/file


/*
* InstallProgramWithFlags:
* Generate rules to install an executable program using given
* install flags.
*/
#define InstallProgramWithFlags(program,dest,flags) @!\
local_install:: program    @@\
 _MakeInstallDirIgnore(dest) \ @@\
 $(INSTALL) -c -s -m 555 flags program^^^$(_EXE) $(INSTALL_PREFIX)^^^dest @!\
        @!\
local_deinstall::     @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/program^^^$(_EXE)


/*
* InstallProgramNoStripWithFlags:
 * Generate rules to install an executable program using given
* install flags.
*/
#define InstallProgramNoStripWithFlags(program,dest,flags) @!\
local_install:: program    @@\
 _MakeInstallDirIgnore(dest) \ @@\
 $(INSTALL) -c -m 555 flags program^^^$(_EXE) $(INSTALL_PREFIX)^^^dest @!\
        @!\
local_deinstall::     @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/program^^^$(_EXE)


/*
* InstallProgram:
* Generate rules to install an executable program using any special
* install flags set in $(INSTALLFLAGS).
*/
#define InstallProgram(program,dest) @!\
InstallProgramWithFlags(program,dest,^^)


/*
* InstallProgramNoStrip:
* Generate rules to install an executable program using any special
* install flags set in $(INSTALLFLAGS), but without stripping the
* executable from debugging symbols.
*/
#define InstallProgramNoStrip(program,dest) @!\
```

```
InstallProgramNoStripWithFlags(program,dest,^^)


/*
* InstallScriptWithFlags:
* Generate rules to install an executable script using given
* install
 flags.
*/
#define InstallScriptWithFlags(script,dest,flags) @!\
local_install:: script    @@\
 _MakeInstallDirIgnore(dest) \ @@\
 $(INSTALL) -c -m 555 flags script $(INSTALL_PREFIX)^^^dest @!\
        @!\
local_deinstall::     @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/script


/*
* InstallScript:
* Generate rules to install an executable script using any special
* install flags set in $(INSTALLFLAGS).
*/
#define InstallScript(script,dest) @!\
InstallScriptWithFlags(script,dest,^^)


/*
* InstallScripts:
* Generate rules to install all the scripts listed in the generated
*  $(SCRIPTS) and $(LSCRIPTS) macros.
*/
#define InstallScripts() @!\
|once _InstallScripts_  @!\
local_install:: $(SCRIPTS) $(LSCRIPTS)    @@\
 _MakeInstallDirIgnore($(SCRIPTDIR)) \  @@\
 for file in $(SCRIPTS) $(LSCRIPTS); do \ @@\
  (set -x; \ @@\
  $(INSTALL) -c -m 555 $$file $(INSTALL_PREFIX)$(SCRIPTDIR)) || \ @@\
  exit 1; \ @@\
 done     @!\
       @!\
local_deinstall::   @@\
 @for file in $(SCRIPTS)
 $(LSCRIPTS); do \ @@\
  case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
  (set -x; $(RM) $(INSTALL_PREFIX)$(SCRIPTDIR)/$$file); \ @@\
 done     @!\
```

```
-once

/*
* InstallManScripts:
* Generate rule to install/deinstall manual pages for scripts listed
* in the automatically generated $(SCRIPTS) macro.
*/
#define InstallManScripts() @!\
|once _InstallManScripts_ @!\
?NOMAN:|skip    @!\
local_install.man::   @@\
 _MakeInstallDirIgnore($(MANSRC)) \  @@\
 for file in $(SCRIPTS); do \   @@\
  if test -f $$file.man; then \  @@\
   (set -x; \      @@\
   $(INSTALL) -c -m 444 $$file.man \ @@\
    $(INSTALL_PREFIX)$(MANSRC)/$$file.$(L)) || \ @@\
    exit 1; \ @@\
  fi; \    @@\
 done     @!\
       @!\
local_deinstall.man::  @@\
 case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
 for file in $(SCRIPTS); do \ @@\
  (set -x; $(RM) $(INSTALL_PREFIX)$(MANSRC)/$$file.$(L)); \ @@\
 done     @!\
       @!\
-skip      @!\
-once



/*
* LinkFileList:
* Link a list of list of files from one place to another
 */
#define LinkFileList(step,list,dir,sub) @!\
step:: list       @@\
 @case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
 echo " cd" dir; cd dir; for i in list; do (set -x; $(LN) sub/$$i .); done


/*
* InstallMultipleDestFlags:
* Generate rules to install multiple files at once during a particular
* step in the build using a specific set of install flags.
*/
#define InstallMultipleDestFlags(step,list,dest,flags) @!\
```

```
step:: list       @@\
 _MakeInstallDirIgnore(dest) \ @@\
 for i in list; do \    @@\
  (set -x; $(INSTALL) -c flags \ @@\
   $$i $(INSTALL_PREFIX)^^^dest) || exit 1;\ @@\
 done

/*
* DeinstallMultipleDest:
* Generate rules to deinstall multiple files at once during a particular
* step in the build.
*/
#define DeinstallMultipleDest(step,list,dest) @!\
step::        @@\
 @case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
 for i in list; do \    @@\
  (set -x; $(RM) $(INSTALL_PREFIX)^^^dest/$$i); \ @@\
 done

/*
* InstallMultiple:
* Generate rules to install multiple
 files at once during the install
* step of the build using any install flags set in $(INSTALLFLAGS)
* and deinstall them.
*/
#define InstallMultiple(list,dest) @!\
InstallMultipleDestFlags(local_install,list,dest,$(INSTALLFLAGS)) @!\
DeinstallMultipleDest(local_deinstall,list,dest)


/*
* InstallMultipleFlags:
* Generate rules to install multiple files at once during the
* install step of the build using the given install flags.
*/
#define InstallMultipleFlags(list,dest,flags) @!\
InstallMultipleDestFlags(local_install,list,dest,flags) @!\
DeinstallMultipleDest(local_deinstall,list,dest)


/*
* InstallMultipleMan:
* Generate rules to install a variety of manual pages
* during the install.man step of the build.
*/
#define InstallMultipleMan(list,dest) @!\
InstallMultipleDestFlags(local_install.man,list,dest,$(INSTALLFLAGS)) @!\
```

```
DeinstallMultipleDest(local_deinstall.man,list,dest)


/*
* DependDependency:
* Generate rules to build the makedepend program.
*/
#define DependDependency()
    @!\
depend:: TOPDIR/mkdep    @!\
        @!\
TOPDIR/mkdep:      @!\
?TOP: @echo "You have to run Configure first."; exit 1 @!\
%TOP: @echo "You have to run Configure in $(TOP) first."; exit 1


/*
* DependTarget:
* Generate rules to compute dependencies for all files listed
* in $(SOURCES) (automatically generated macro).
*/
#define DependTarget()    @!\
+USRINC = $usrinc @!\
|once _DependTarget_    @!\
DependDependency()     @!\
        @!\
depend::       @@\
 ($(SED) '/^# DO NOT DELETE/q' Makefile && \ @@\
 $(MKDEP) $(SOURCES) | \   @@\
 $(SED) -e 's:/usr/lib[^ ]*::g; s:$(USRINC)[^ ]*::g; ' \ @@\
  -e '/: / b print' -e '$$ b print' -e 'H; d; n; : print' \ @@\
  -e 'x; s/\$$//; s/\\n//g; s/ ^^ */ /g; s/ :/:/;' -e '/: *$$/d' \ @@\
 ) > Makefile.new    @@\
 cp Makefile Makefile.bak  @@\
 cp Makefile.new Makefile  @@\
 $(RM) Makefile.new    @!\
        @!\
-once


/*
* CleanTarget:
* Generate rules to remove any garbage files.
*/
#define CleanTarget()    @!\
?SUBDIRS:clean:
 sub_clean local_clean    @!\
%SUBDIRS:clean: local_clean       @!\
```

```
?SUBDIRS:realclean: sub_realclean local_realclean @!\
%SUBDIRS:realclean: local_realclean     @!\
?SUBDIRS:clobber: sub_clobber local_clobber   @!\
%SUBDIRS:clobber: local_clobber      @!\
        @!\
local_clean::       @@\
 if test -f core; then $(RM) core; fi @@\
 $(RM) *~ *.o     @!\
        @!\
local_realclean:: local_clean  @!\
?TOP: $(RM) -r UU     @!\
        @!\
local_clobber:: local_realclean  @!\
%TOP: $(RM) Makefile config.sh  @!\
?TOP: $(RM) config.sh config.h  @!\
?TOP: $(RM) -r .config    @!\
?TOP: $(RM) Makefile    @!\


/*
* InstallTarget:
* Generate rules to recursively install files
*/
#define InstallTarget()           @!\
?SUBDIRS:install:: local_install sub_install     @!\
%SUBDIRS:install:: local_install        @!\
?SUBDIRS:install.man:: maybe_install.man sub_install.man  @!\
%SUBDIRS:install.man:: maybe_install.man      @!\
?SUBDIRS:deinstall:: sub_deinstall local_deinstall    @!\
%SUBDIRS:deinstall::
 local_deinstall       @!\
?SUBDIRS:deinstall.man:: sub_deinstall.man maybe_deinstall.man @!\
%SUBDIRS:deinstall.man:: maybe_deinstall.man     @!\
                @!\
?MANSRC:install.man-yes: local_install.man      @!\
install.man-no:             @!\
?MANSRC:deinstall.man-yes: local_deinstall.man     @!\
deinstall.man-no:           @!\


/*
* TagsTarget:
* Generate rules to compute tags files for C source code.
*/
#define TagsTarget()    @!\
tags::        @@\
 $(CTAGS) -w *.[ch]    @@\
 $(CTAGS) -xw *.[ch] > tags  @!\
```

```
        @!\
local_clobber::      @@\
 $(RM) tags



/*
* BuildMakefileSH:
* Generate rules to build a Makefile.SH from an Jmakefile and any
* special jmake flags.  This is generally done automatically by the
* template or by any special Jmakefiles.
* This function will simply touch Makefile.SH if no $(TOP)/.package
* exists, assuming the Jmakefile is not in a production environment.
*/
#define BuildMakefileSH(jmakeflags) @!\
Makefile.SH:
 Jmakefile     @@\
 -@if test -f $(TOP)/.package; then \ @@\
  if test -f Makefile.SH; then \ @@\
   echo " $(RM) Makefile.SH~; $(MV) Makefile.SH Makefile.SH~"; \ @@\
   $(RM) Makefile.SH~; $(MV) Makefile.SH Makefile.SH~; \ @@\
  fi; \      @@\
  echo " $(JMAKE) -DTOPDIR=$(TOP) -DCURDIR=$(CURRENT)" jmakeflags; \ @@\
  $(JMAKE) -DTOPDIR=$(TOP) -DCURDIR=$(CURRENT) jmakeflags; \ @@\
 else touch $@; fi


/*
* BuildMakefile:
* Generate rules to build a Makefile from a Makefile.SH.
*/
#define BuildMakefile() @!\
Makefile: Makefile.SH    @@\
 /bin/sh Makefile.SH


/*
* MakefileTarget:
* Generate rules to build a normal Makefile.
*/
#define MakefileTarget()  @!\
BuildMakefileSH(^^)    @!\
BuildMakefile()


/*
* NormalObjectRule:
* Generate make rule to build usual object files.
```

```
*/
#define NormalObjectRule()   @!\
|once _ObjectRule_     @!\
|rule:.c.o:       @!\
|rule: $(CC) -c $(JCFLAGS) $<  @!\
|rule:        @!\
-once

/*
* NormalLibraryObjectRule:
* Generate make rules to build
 "normal" objects.
*/
#define NormalLibraryObjectRule() @!\
|once _ObjectRule_     @!\
|rule:.c.o:       @!\
|rule: $(RM) $@      @!\
|rule: $(CC) -c $(JCFLAGS) $<  @!\
|rule:        @!\
-once

/*
* ProfiledLibraryObjectRule:
* Generate make rules to build both profiled and "normal" objects.
*/
#define ProfiledLibraryObjectRule() @!\
all::        @@\
 @if [ ! -d profiled ]; then mkdir profiled; fi @!\
        @!\
|rule:.c.o:       @!\
|rule: $(RM) $@ profiled/$@   @!\
|rule: $(CC) -pg -c $(JCFLAGS) $*.c @!\
|rule: $(MV) $*.o profiled/$*.o  @!\
|rule: $(CC) -c $(JCFLAGS) $*.c  @!\
|rule:        @!\
local_clean::       @@\
 -@if [ -d profiled ]; then echo " $(RM) profiled/?*.o"; \ @@\
  $(RM) profiled/?*.o; fi


/*
* DebuggedLibraryObjectRule:
* Generate make rules to build both debuggable and "normal"
* objects.
*/
#define DebuggedLibraryObjectRule()     @!\
all::         @@\
 @if [ ! -d debugger ]; then mkdir debugger; fi @!\
```

```
        @!\
|rule:.c.o:       @!\
|rule: $(RM) $@
 debugger/$@   @!\
|rule: $(CC) -g -c $(JCFLAGS) $*.c @!\
|rule: $(MV) $*.o debugger/$*.o  @!\
|rule: $(CC) -c $(JCFLAGS) $*.c  @!\
|rule:        @!\
local_clean::      @@\
 -@if [ -d debugger ]; then echo " $(RM) debugger/?*.o"; \ @@\
  $(RM) debugger/?*.o; fi


/*
* DebuggedAndProfiledLibraryOjbectRule:
* Generate make rules to build debuggable, profiled, and "normal"
* objects.
*/
#define DebuggedAndProfiledLibraryObjectRule() @!\
all::        @@\
 @if [ ! -d profiled ]; then mkdir profiled; fi @@\
 @if [ ! -d debugger ]; then mkdir debugger; fi @!\
        @!\
|rule:.c.o:        @!\
|rule: $(RM) $@ profiled/$@ debugger/$@ @!\
|rule: $(CC) -pg -c $(JCFLAGS) $*.c  @!\
|rule: $(MV) $*.o profiled/$*.o   @!\
|rule: $(CC) -g -c $(JCFLAGS) $*.c  @!\
|rule: $(MV) $*.o debugger/$*.o   @!\
|rule: $(CC) -c $(JCFLAGS) $*.c   @!\
|rule:        @!\
local_clean::       @@\
 -@if [ -d profiled ]; then echo " $(RM) profiled/?*.o"; \ @@\
  $(RM) profiled/?*.o; fi   @@\
 -@if [ -d debugger ];
 then echo " $(RM) debugger/?*.o"; \ @@\
  $(RM) debugger/?*.o; fi


/*
* SharedLibraryObjectRule:
* Generate make rules to build shared and "normal" object files.
*/
#define SharedLibraryObjectRule()     @!\
all::        @@\
 @if [ ! -d shared ]; then mkdir shared; fi  @!\
        @!\
|rule:.c.o:       @!\
```

```
|rule: $(RM) $@ shared/$@   @!\
|rule: $(CC) -pic -c $(SHAREDCODEDEF) $(SHLIBDEF) $(JCFLAGS) $*.c @!\
|rule: $(MV) $*.o shared/$*.o  @!\
|rule: $(CC) -c $(SHLIBDEF) $(JCFLAGS) $*.c    @!\
|rule:       @!\
local_clean::      @@\
 -@if [ -d shared ]; then echo " $(RM) shared/?*.o"; \  @@\
  $(RM) shared/?*.o; fi

/*
* SharedAndDebuggedLibraryObjectRule:
* Generate make rules to build shared, debuggable, and "normal"
* object files.
*/
#define SharedAndDebuggedLibraryObjectRule() @!\
all::         @@\
 @if [ ! -d shared ]; then mkdir shared; fi  @@\
 @if [ ! -d debugger ]; then mkdir debugger; fi @!\
          @!\
|rule:.c.o:        @!\
|rule: $(RM) $@ shared/$@ debugger/$@  @!\
|rule:
 $(CC) -pic -c $(SHAREDCODEDEF) $(SHLIBDEF) $(JCFLAGS) $*.c @!\
|rule: $(MV) $*.o shared/$*.o    @!\
|rule: $(CC) -g -c $(SHLIBDEF) $(JCFLAGS) $*.c @!\
|rule: $(MV) $*.o debugger/$*.o    @!\
|rule: $(CC) -c $(SHLIBDEF) $(JCFLAGS) $*.c @!\
|rule:         @!\
local_clean::        @@\
 -@if [ -d shared ]; then echo " $(RM) shared/?*.o"; \  @@\
  $(RM) shared/?*.o; fi    @@\
 -@if [ -d debugger ]; then echo " $(RM) debugger/?*.o"; \ @@\
  $(RM) debugger/?*.o; fi

/*
* SpecialSharedAndDebuggedObjectRule:
* Generate rules to compile a file with special flags and to make
* shared and debuggable versions.
*/
#define SpecialSharedAndDebuggedObjectRule(objs,depends,options) @!\
all::        @@\
 @if [ ! -d shared ]; then mkdir shared; fi  @@\
 @if [ ! -d debugger ]; then mkdir debugger; fi @!\
         @!\
objs: depends       @@\
 $(RM) $@ shared/$@ debugger/$@  @@\
 $(CC) -pic -c $(SHAREDCODEDEF) $(SHLIBDEF) $(JCFLAGS) options $*.c @@\
 $(MV) $*.o shared/$*.o    @@\
```

```
 $(CC)
 -g -c $(SHLIBDEF) $(JCFLAGS) options $*.c   @@\
 $(MV) $*.o debugger/$*.o   @@\
 $(CC) -c $(SHLIBDEF) $(JCFLAGS) options $*.c

/*
* SpecialSharedObjectRule:
* Generate rules to compile a file with special flags and to make
* shared and debuggable versions.
*/
#define SpecialSharedObjectRule(objs,depends,options)  @!\
all::        @@\
 @if [ ! -d shared ]; then mkdir shared; fi  @!\
        @!\
objs: depends       @@\
 $(RM) $@ shared/$@      @@\
 $(CC) -pic -c $(SHAREDCODEDEF) $(SHLIBDEF) $(JCFLAGS) options $*.c @@\
 $(MV) $*.o shared/$*.o    @@\
 $(CC) -c $(SHLIBDEF) $(JCFLAGS) options $*.c


/*
* SpecialObjectRule:
* Generate rules to compile a file with special flags.
*/
#define SpecialObjectRule(objs,depends,options)  @!\
objs: depends       @@\
 $(RM) $@       @@\
 $(CC) -c $(JCFLAGS) options $*.c


/*
* SpecialProfiledObjectRule:
* Generate rules to compile a file with special flags and to make a
* profiled version.
*/
#define SpecialProfiledObjectRule(objs,depends,options)   @!\
all::        @@\
 @if
 [ ! -d profiled ]; then mkdir profiled; fi @!\
        @!\
objs: depends       @@\
 $(RM) $@ profiled/$@    @@\
 $(CC) -pg -c $(JCFLAGS) options $*.c @@\
 $(MV) $*.o profiled/$*.o   @@\
 $(CC) -c $(JCFLAGS) options $*.c
```

```
/*
* SpecialDebuggedObjectRule:
* Generate rules to compile a file with special flags and to make a
* debuggable version.
*/
#define SpecialDebuggedObjectRule(objs,depends,options) @!\
all::        @@\
 @if [ ! -d debugger ]; then mkdir debugger; fi @!\
        @!\
objs: depends       @@\
 $(RM) $@ debugger/$@    @@\
 $(CC) -g -c $(JCFLAGS) options $*.c @@\
 $(MV) $*.o debugger/$*.o   @@\
 $(CC) -c $(JCFLAGS) options $*.c


/*
* SpecialDebuggedAndProfiledObjectRule:
* Generate rules to compile a file with special flags and to make
* debuggable and profiled versions.
*/
#define SpecialDebuggedAndProfiledObjectRule(objs,depends,options) @!\
all::        @@\
 @if [ ! -d profiled ]; then mkdir profiled; fi @@\
 @if [ ! -d
 debugger ]; then mkdir debugger; fi @!\
        @!\
objs: depends       @@\
 $(RM) $@ profiled/$@ debugger/$@ @@\
 $(CC) -pg -c $(JCFLAGS) options $*.c @@\
 $(MV) $*.o profiled/$*.o   @@\
 $(CC) -g -c $(JCFLAGS) options $*.c @@\
 $(MV) $*.o debugger/$*.o   @@\
 $(CC) -c $(JCFLAGS) options $*.c


/*
* NormalLibraryTarget:
* Generate rules to create a library. The 'srclist' and 'objlist'
* parameters are added to SOURCES and OBJECTS macros. The 'srclist'
* is not otherwise used by this rule, but is necessary for make depend.
*/
#define NormalLibraryTarget(libname,srclist,objlist) @!\
++OBJECTS objlist @!\
++SOURCES srclist @!\
NormalLibraryObjectRule()  @!\
AllTarget(lib^^libname.a)  @!\
       @!\
```

```
lib^^libname.a: objlist   @@\
 $(RM) $@     @@\
 $(AR) $@ objlist   @@\
 $(RANLIB) $@


/*
* NormalSharedLibraryTarget:
* Generate rules to create a shared library; build it into a
* different name so that the we don't hose people by having the
* library gone for long periods.
*/
#define
 NormalSharedLibraryTarget(libname,rev,solist) @!\
AllTarget(lib^^libname.so.rev) @!\
        @!\
lib^^libname.so.rev:  solist  @@\
 $(RM) $@~      @@\
 (cd shared; $(LD) -o ../$@~ -assert pure-text solist)  @@\
 $(RM) $@       @@\
 $(MV) $@~ $@

/*
* NormalSharedLibraryDataTarget:
* Generate rules to create shlib data file; build it into a
* different name so that the we don't hose people by having the
* library gone for long periods.
*/
#define NormalSharedLibraryDataTarget(libname,rev,salist) @!\
AllTarget(lib^^libname.sa.rev) @!\
        @!\
lib^^libname.sa.rev:  salist  @@\
 $(RM) $@      @@\
 $(AR) $@ salist     @@\
 $(RANLIB) $@


/*
* NormalLibraryTarget2:
* Generate rules to create a library in two steps.  This is used to
* create libraries with large numbers of files.
*/
#define NormalLibraryTarget2(libname,srclist,objlist1,objlist2) @!\
++SOURCES srclist @!\
++OBJECTS objlist1 @!\
++OBJECTS objlist2 @!\
NormalLibraryObjectRule()   @!\
AllTarget(lib^^libname.a)   @!\
```

```
        @!\
lib^^libname.a:
 objlist1 objlist2 @@\
 $(RM) $@      @@\
 $(AR) $@ objlist1    @@\
 $(AR) $@ objlist2    @@\
 $(RANLIB) $@


/*
* ProfiledLibraryTarget:
* Generate rules to create a profiled library.
*/
#define ProfiledLibraryTarget(libname,srclist,objlist) @!\
++SOURCES srclist @!\
++OBJECTS objlist @!\
AllTarget(lib^^libname^^_p.a)  @!\
        @!\
lib^^libname^^_p.a: objlist   @@\
 $(RM) $@      @@\
 cd profiled; $(AR) ../$@ objlist @@\
 $(RANLIB) $@


/*
* DebuggedLibraryTarget:
* Generate rules to create a debuggable library.
*/
#define DebuggedLibraryTarget(libname,srclist,objlist) @!\
++SOURCES srclist @!\
++OBJECTS objlist @!\
AllTarget(lib^^libname^^_d.a)  @!\
        @!\
lib^^libname^^_d.a: objlist   @@\
 $(RM) $@       @@\
 cd debugger; $(AR) ../$@ objlist @@\
 $(RANLIB) $@


/*
* AliasedLibraryTarget:
* Generate rules to link one library to another.
*/
#define AliasedLibraryTarget(libname,alias) @!\
AllTarget(lib^^alias.a)   @!\
       @!\
lib^^alias.a:
```

```
 lib^^libname.a @@\
 $(RM) $@     @@\
 $(LN) lib^^libname.a $@


/*
* PrelinkedRelocatableTarget:
* Generate rules to produce a relocatable object file instead of a
* library.
*/
#define PrelinkedRelocatableTarget(objname,objlist,libs) @!\
AllTarget(objname.o)    @!\
        @!\
objname.o: objlist     @@\
 $(RM) $@      @@\
 $(LD) $(JLDFLAGS) -r objlist -o $@ libs


/*
* NormalObjectTarget:
* Generate rules to produce a single object file.o from a file.c.
*/
#define NormalObjectTarget(file) @!\
++SOURCES file^^.c     @!\
AllTarget(file^^.o)     @!\
NormalObjectRule()

/*
* NormalRelocatableTarget:
* Generate rules to produce a relocatable object file instead of a
* library.
*/
#define NormalRelocatableTarget(objname,objlist) @!\
AllTarget(objname.o)    @!\
        @!\
objname.o: objlist     @@\
 $(RM) $@      @@\
 $(LD) $(JLDFLAGS) -r objlist -o $@


/*
* ProfiledRelocatableTarget:
* Generate rules to produce a profiled relocatable object file
* instead
 of a library.
*/
#define ProfiledRelocatableTarget(objname,objlist) @!\
AllTarget(objname^^_p.o)  @!\
```

```
	@!\
objname^^_p.o: objlist	@@\
	$(RM) $@	@@\
	$(LD) -X -r objlist -o $@


/*
* DebuggedRelocatableTarget:
* Generate rules to produce a debuggable relocatable object file
* instead of a library.
*/
#define DebuggedRelocatableTarget(objname,objlist) @!\
AllTarget(objname^^_d.o)	@!\
	@!\
objname^^_d.o: objlist	@@\
	$(RM) $@	@@\
	$(LD) -X -r objlist -o $@

/*
* LintLibraryTarget:
* Generate rules to create a lint library.  Note that the lint
* library is always forced to be newer than the library itself.
*/
#define LintLibraryTarget(libname,srclist) @!\
lintlib:: llib-l^^libname.ln @!\
	@!\
llib-l^^libname.ln: srclist	@@\
	$(RM) $@	@@\
	$(LINT) $(LINTLIBFLAG)^^libname $(LINTFLAGS) srclist


/*
* NormalLintTarget:
* Generate rules to lint a set of sources.
*/
#define NormalLintTarget(srclist) @!\
lint:	@@\
	$(LINT) $(LINTFLAGS) srclist
	$(LINTLIBS)


/*
* LintTarget:
* Generate rules to lint $(SOURCES) (automatically generated)
*/
#define LintTarget()	@!\
|once _LintTarget_	@!\
NormalLintTarget($(SOURCES)) @!\
```

```
-once


/*
* LinkSourceFile:
* Snag source file from some other directory
*/
#define LinkSourceFile(src,dir)  @!\
src:  dir/src   @@\
 $(RM) $@   @@\
 $(LN) $? $@   @!\


/*
* MakeSubincludesForBuild:
* Make includes in sub directories.
*/
#define MakeSubincludesForBuild(step,dir,srclist) @!\
step::  dir srclist        @@\
 @-(list=`echo srclist | sed -e 's/[^ ]*\//g'`; \  @@\
  set -x; cd dir; $(RM) $$list)   @@\
 @for i in srclist; do \      @@\
  (set -x; cd dir; $(LN) ../$$i .) || exit 1; \  @@\
 done          @!\
           @!\
MakeDirectories(dir,dir)      @!\
           @!\
local_realclean::         @@\
 @-(if [ -d dir ]; then \     @@\
  list=`echo srclist | sed -e 's/[^ ]*\//g'`; \  @@\
  set -x; cd dir; $(RM) $$list; fi)


/*
* CommonSubdirsRule:
* Rule for making $(TARGET) in
 every subdirectory, with $(VERB) as
* verbose message and $(FLAGS) as additional flags.
*/
#define CommonSubdirsRule(dirs) @!\
subdirs:       @@\
 @case '${MFLAGS}' in *[ik]*) set +e;; esac; \   @@\
 for i in dirs ;\     @@\
 do \        @@\
  (cd $$i ; echo $(VERB) "in $(DIR)$$i..."; \  @@\
   $(MAKE) $(MFLAGS) $(FLAGS) $(TARGET)) || exit 1; \ @@\
 done
```

```
/*
* NamedTargetSubdirsRule:
* Recursively make a series of steps in the specified directories.
*/
#define NamedTargetSubdirsRule(dirs,name,verb,flags) @!\
name::        @@\
 @case '${MFLAGS}' in *[ik]*) set +e;; esac; \  @@\
 for i in dirs ;\     @@\
 do \        @@\
  (cd $$i ; echo verb "in $(DIR)$$i..."; \ @@\
   $(MAKE) $(MFLAGS) flags name) || exit 1; \ @@\
 done


/*
* NamedTargetSubdirs:
* Recursively make a series of steps.
*/
#define NamedTargetSubdirs(name,verb,flags)  @!\
name::          @@\
 @$(MAKE) subdirs TARGET=name VERB=verb FLAGS=flags


/*
* NamedSubTargetSubdirs:
* Recursively make a series of steps,
 like NamedTargetSubdirs.
* However, the supplied "name" has "sub_" prefixed to it.
*/
#define NamedSubTargetSubdirs(name,verb,flags) @!\
sub_^^^name::          @@\
 @$(MAKE) subdirs TARGET=name VERB=verb FLAGS=flags

/*
* NamedDepthTargetSubdirs:
* Recursively make a series of steps. We first enter the
* subdirectories, then perform the local entries.
* The supplied "name" has "sub_" prefixed to it.
*/
#define NamedDepthTargetSubdirs(name,verb,flags)  @!\
sub_^^^name::      @@\
 @$(MAKE) subdirs TARGET=name VERB=verb FLAGS=flags @@\
 @echo "Back to $(CURRENT) for "name^^...


/*
* MakeSubdirs:
```

```
* Generate rules to do makes in the given subdirectories.
*/
#define MakeSubdirs() \
NamedTargetSubdirs(all,"Making all",^^)


/*
* DependDirs:
* Generate rules to recursively compute dependencies as part of the
* make depend step.
*/
#define DependDirs(dirs) \
NamedTargetSubdirsRule(dirs,depend,"Depending",^^)


/*
* DependSubdirs:
* Generate rules to recursively compute dependencies
 as part of the
* make depend step.
*/
#define DependSubdirs() \
DependDirs($(SUBDIRS))


/*
* InstallSubdirs:
* Generate rules to recursively install and deinstall programs and
* files.
*/
#define InstallSubdirs() \
NamedSubTargetSubdirs(install,"Installing",^^) @!\
NamedDepthTargetSubdirs(deinstall,"Deinstalling",^^)


/*
* InstallManSubdirs:
* Generate rules to recursively install and deinstall manual pages.
*/
#define InstallManSubdirs() \
NamedSubTargetSubdirs(install.man,"Installing man pages",^^) @!\
NamedDepthTargetSubdirs(deinstall.man,"Deinstalling man pages",^^)


/*
* IncludesSubdirs:
* Generate rules to recursively put include files in build
*/
```

```
#define IncludesSubdirs() \
NamedTargetSubdirs(includes,including,^^)


/*
* CleanSubdirs:
* Generate rules to recursively clean out garbage files.
*/
#define CleanSubdirs() \
NamedDepthTargetSubdirs(clean,"Cleaning",^^) @!\
NamedDepthTargetSubdirs(realclean,"Real cleaning",^^) @!\
NamedDepthTargetSubdirs(clobber,"Clobbering",^^)


/*
 * TagSubdirs:
* Generate rules to recursively create tags files.
*/
#define TagSubdirs(dirs) \
NamedTargetSubdirsRule(dirs,tag,"Tagging",^^)

/*
* MakeLintSubdirs:
* Generate rules to recursively lint directories as part of the
* named step.
*/
#define MakeLintSubdirs(dirs,target) \
NamedTargetSubdirsRule(dirs,target,"Linting",^^)


/*
* LintDirs:
* Generate rules to recursively lint directories as part of the
* make lint step.
*/
#define LintDirs(dirs) \
MakeLintSubdirs(dirs,lint)


/*
* LintSubdirs:
* Generate rules to recursively lint directories as part of the
* make lint step.
*/
#define LintSubdirs() \
LintDirs($(SUBDIRS))
```

```
/*
* MakeDirs:
* Creates a set of directories, even if some directories in the path
* do not already exist. There should be no '@!' at the end of the
* '#define' line, because this macro is used *inside* building rules.
*/
#define MakeDirs(dirs) \
 @case '${MFLAGS}' in *[i]*) set +e;; esac; \   @@\
 for dir in dirs;
 do \         @@\
  (set -x; test -d $$dir || $(INSTALLDIR) $$dir) || \ @@\
  exit 1; \  @@\
 done

/*
* _MakeInstallDirs:
* Creates a set of intall directories, even if some directories in the path
* do not already exist. There should be no '@!' at the end of the
* '#define' line, because this macro is used *inside* building rules.
*/
#define _MakeInstallDirs(dirs) \
 @case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
 for dir in dirs; do \       @@\
  _MakeInstallDir($$dir) \     @@\
 done

/*
* _MakeInstallDir:
* Internal macro to create a missing install directory.
*/
#define _MakeInstallDir(dir) \
 (set -x; test -d $(INSTALL_PREFIX)^^^dir || \ @@\
  $(INSTALLDIR) $(INSTALL_PREFIX)^^^dir);

/*
* _MakeInstallDirIgnore:
* Same as _MakeInstallDir but handles "make -i" as well.
*/
#define _MakeInstallDirIgnore(dir) \
 @case '${MFLAGS}' in *[i]*) set +e;; esac;  \ @@\
 _MakeInstallDir(dir)

/*
* _RmInstallDirs:
* Removes a set of intall directories.
* There should be no '@!'
 at the end of the '#define' line, because this
* macro is used *inside* building rules.
```

```
*/
#define _RmInstallDirs(dirs) \
 @case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
 for dir in dirs; do \       @@\
  (set -x; test -d $$dir && $(RM) -r $(INSTALL_PREFIX)$$dir); \ @@\
 done

/*
* MakeDirectories:
* Generate rules to create a hierarchy of directories.
*/
#define MakeDirectories(step,dirs)  @!\
step::        @@\
 MakeDirs(dirs)


/*
* MakeInstallDirectories:
* Generate a rule to create a set of directories at installation
* time (removed by deinstall).
*/
#define MakeInstallDirectories(dirs) @!\
local_install::    @@\
 _MakeInstallDirs(dirs) @!\
      @!\
local_deinstall::   @@\
 _RmInstallDirs(dirs)


/*
* MakeLintLibSubdirs:
* Generate rules to recursively create lint libraries.
*/
#define MakeLintLibSubdirs(dirs) @!\
MakeLintSubdirs(dirs,lintlib)


/*
* MakeMakeSubdirs:
* Generate rules to recursively recreate target as part of the
* specified step in the build.
  This assumes Makefile.SH has
* already been built (which is the case for a delivery), but does
* not rely on the existence of a Makefile.
*/
#define MakeMakeSubdirs(target) @!\
target::        @@\
 @case '${MFLAGS}' in *[ik]*) set +e;; esac; \ @@\
```

```
 for i in $(SUBDIRS);\    @@\
 do \        @@\
  echo "Making "target" in $(DIR)$$i..."; \ @@\
  (cd $$i || exit 1; \   @@\
  if test ! -f Makefile; then /bin/sh Makefile.SH; fi; \ @@\
  $(MAKE) $(MFLAGS) target) || exit 1;\ @@\
 done


/*
* MakeMakefilesSH:
* Generate rules to recursively recreate target as part of the
* specified step in the build.  If $(TOP) is set to an absolute
* path, don't prepend the ../ prefix.  This makes running things
* outside of the source tree to be much easier.
*/
#define MakeMakefilesSH()  @!\
Makefiles.SH:: Makefile.SH    @@\
 @case '${MFLAGS}' in *[ik]*) set +e;; esac; \ @@\
 for i in $(SUBDIRS);\     @@\
 do \        @@\
  case "$(DIR)$$i/" in \        @@\
  ^^*^^/^^*^^/^^*^^/^^*^^/) newtop=../../../..;;
 \ @@\
  ^^*^^/^^*^^/^^*^^/) newtop=../../..;; \    @@\
  ^^*^^/^^*^^/) newtop=../..;; \      @@\
  *^^/) newtop=..;; \         @@\
  esac; \            @@\
  case "$(TOP)" in \    @@\
  /^^*) newtop="$(TOP)" ;; \  @@\
  esac; \       @@\
  echo "Making Makefiles.SH in $(DIR)$$i..."; \ @@\
  (cd $$i || exit 1; \   @@\
   if test -f Jmakefile; then \ @@\
    $(MAKE) $(MFLAGS) -f ../Makefile \ @@\
     Makefile TOP=$$newtop CURRENT=$(DIR)$$i && \  @@\
    $(MAKE) $(MFLAGS) Makefiles.SH; \ @@\
   fi; \      @@\
  ) || exit 1; \ @@\
 done


/*
* MakefileSubdirs:
* Generate rules to create Makefiles.
*/
#define MakefileSubdirs()  @!\
MakeMakeSubdirs(Makefiles)  @!\
```

```
MakeMakefilesSH()


/*
* CppScriptTarget:
* Generate rules to create a shell script by running the input
* through cpp.
*/
#define CppScriptTarget(dst,src,defs,deplist) @!\
dst::  src deplist      @@\
 $(RM) $@       @@\
 $(CPP) defs <src | \    @@\
  sed -e '/^#  *[0-9][0-9]*  *.*$$/d' >$@  @@\
 chmod a+x $@


/*
 * MakeScriptFromCpp:
* Generate rules to create a script from a file with a
* .cpp suffix.
*/
#define MakeScriptFromCpp(name,defs) @!\
CppScriptTarget(name,name.cpp,defs,^^)


/*
* ShellScriptTargetExt:
* Generate rules to create and install a set of scripts from
* ext files (.sh and .SH are the most common examples). Man pages
* derived from the name of the scripts are also installed unless
* NoManPages() is specified.
*/
#define ShellScriptTargetExt(scripts,ext) @!\
++SCRIPTS scripts @!\
SimpleShellScriptTargetExt(scripts,ext)  @!\
InstallScripts()       @!\
InstallManScripts()


/*
* ShellScriptTarget:
* Generate rules to create and install a set of scripts from
* .SH files. Man pages derived from the name of the scripts are
* also installed unless NoManPages() is specified.
*/
#define ShellScriptTarget(scripts) @!\
ShellScriptTargetExt(scripts,.SH)
```

```
/*
* SimpleShellScriptTargetExt:
* Generate rules to create a set of scripts from ext files where
* ext is usually
 something like .sh or .SH, or whatever file
* extension you like..
*/
#define SimpleShellScriptTargetExt(scripts,ext) @!\
AllTarget(scripts)   @!\
	@!\
|expand s!scripts!   @!\
!s: !s^^ext     @@\
 /bin/sh !s^^ext   @!\
	@!\
-expand


/*
* SimpleShellScriptTarget:
* Generate rules to create a set of scripts from .SH files.
*/
#define SimpleShellScriptTarget(scripts) @!\
SimpleShellScriptTargetExt(scripts,.SH)


/*
* ShellScriptLongTarget:
* Generate rules to create a set of scripts from .SH files where
* the name of the generated file is different from the basename of
* the .SH file (when, for instance, the total length with the .SH
* extension would not leave enough space for RCS ,v extension).
*/
#define ShellScriptLongTarget(basename,scriptname) @!\
++LSCRIPTS scriptname @!\
AllTarget(scriptname)  @!\
	@!\
scriptname: basename^^.SH @@\
 /bin/sh basename^^.SH @!\
	@!\
InstallScripts()   @!\
?NOMAN:|skip    @!\
InstallManPageLong(basename,$(MANSRC),scriptname) @!\
-skip


/*
```

```
 * ForceTarget:
* The force target will force reconstruction of all the other
* targets which include .FORCE in their own dependencies.
*/
#define ForceTarget() @!\
|once _force_   @!\
.FORCE:     @!\
      @!\
-once


/*
* RemoteTargetDependency:
* A local target may rely on a remote dependency (e.g. a library)
* made in a separate directory. This rule explicits the dependency
* and forces a make of that dependency in the remote directory.
*/
#define RemoteTargetDependency(target,directory,dependency) @!\
RemoteDependency(directory,dependency) @!\
target: directory/^^^dependency @!\


/*
* RemoteDependency:
* Specify rules for making a remote dependency.
*/
#define RemoteDependency(directory,dependency) @!\
ForceTarget()       @!\
|once =directory/^^^dependency=   @!\
directory/^^^dependency: .FORCE   @@\
 @echo "Checking "^^^dependency" in "^^^directory"..." @@\
 cd ^^^directory; $(MAKE) ^^^dependency @@\
 @echo "Continuing in $(CURRENT)..." @!\
     @!\
-once

/*
 * SetSubdirs:
* Actually forces the definition of SUBDIRS, and lets the user
* specify what the sub-directories are.  This will be added to the
* customization part.
*/
#define SetSubdirs(subdirs) @!\
>SUBDIRS @!\
+SUBDIRS = subdirs


/*
```

```
* NoManPages:
* Actually forces the definition of NOMAN, which tells the jmake
* program to not generate rules for installing manual pages.
*/
#define NoManPages() @!\
>NOMAN


/*
* Expand:
* This powerful macro expands the `rule' given a `pattern'. It
* relies on a built-in command in jmake. The expansion is
* documented in the short notes file that comes with jmake and
* gives some insights on the internal syntax.
*/
#define Expand(rule, pattern) @!\
|expand pattern @!\
rule @!\
-expand


/*
* Lex and yacc stuff.
*/

/*
* YaccRule:
* This is the rule which is used to build a .c file from a .y file.
*/
#define YaccRule() @!\
AddSuffix(.y)     @!\
|once _YaccRule_    @!\
|rule:.y.c:      @!\
|rule: $(YACC) $(JYFLAGS)
 $< @!\
|rule: $(MV) y.tab.c $@   @!\
|rule:       @!\
-once

/*
* SimpleYaccTarget:
* Declare a yacc base.y file to be used in the building of the
* specified target program. The source file must be given without
* its final .y extension. The name of the .c and .o will be
* derived from the source file basename provided.
*/
#define SimpleYaccTarget(program,base) @!\
++SOURCES base.y @!\
```

```
++OBJECTS base.o @!\
YaccRule()    @!\
program: base.c   @!\
     @!\
local_realclean::  @@\
 $(RM) base.c  @!\


/*
* ComplexYaccTarget:
* Declare a yacc base.y file to be used in the building of the
* specified target program. The source file must be given without
* its final .y extension. The name of the .c and .o will be
* derived from the source file basename provided.
* The difference with SimpleYaccTarget is the identifying process
* where all the 'yy' are replaced by the specified prefix.
*/
#define ComplexYaccTarget(program,base,prefix) @!\
++SOURCES base.y @!\
++OBJECTS base.o
 @!\
program: base.c   @!\
     @!\
base.c: base.y     @@\
 $(YACC) $(JYFLAGS) base.y @@\
 $(SED) -e 's/yy\(.\)/prefix\1/g' < y.tab.c > base.c @@\
 $(SED) -e 's/yy\(.\)/prefix\1/g' < y.tab.h > base.h @@\
 $(RM) y.tab.c y.tab.h @!\
      @!\
local_realclean::  @@\
 $(RM) base.c  @!\


/*
* SimpleYaccInclude:
* Declare that program will need an include file produced by
* the output of yacc on base.y, which typically produces a file
* named y.tab.h, which will be renamed as base.h.
* The only problem is that the dependencies towards base.h have
* to be manually given in the Jmakefile.
*/
#define SimpleYaccInclude(base) @!\
base.h: base.c  @@\
 @if test -f y.tab.h; then \ @@\
  echo " $(MV) y.tab.h $@"; \ @@\
  $(MV) y.tab.h $@; \  @@\
 fi       @!\
       @!\
```

```
local_realclean::    @@\
 $(RM) base.h

/*
* ComplexYaccInclude:
* Declare that program will need an include file produced by
* the output of yacc on base.y, which typically produces a file
* named y.tab.h, which will
 be renamed as base.h.
* The difference with SimpleYaccInclude is the identifying process
* of the y.tab.h file where all 'yy' are renamed to prefix.
* The only problem is that the dependencies towards base.h have
* to be manually given in the Jmakefile.
*/
#define ComplexYaccInclude(base,prefix) @!\
base.h: base.c  @@\
 @if test -f y.tab.h; then \ @@\
  echo " $(SED) -e 's/yy\(.\)/prefix\1/g' < y.tab.h > base.h"; \ @@\
  $(SED) -e 's/yy\(.\)/prefix\1/g' < y.tab.h > base.h; \ @@\
  echo " $(RM) y.tab.h"; \ @@\
  $(RM) y.tab.h; \  @@\
 elif test -f base.h; then \ @@\
  echo " $(CP) base.h base.ht"; \ @@\
  $(CP) base.h base.ht; \ @@\
  echo " $(SED) -e 's/yy\(.\)/prefix\1/g' < base.ht > base.h"; \ @@\
  $(SED) -e 's/yy\(.\)/prefix\1/g' < base.ht > base.h; \ @@\
  echo " $(RM) base.ht"; \ @@\
  $(RM) base.ht; \  @@\
 fi       @!\
       @!\
local_realclean::    @@\
 $(RM) base.h


/*
* NormalYaccTarget:
* Declare a yacc base.y file which should produce a base.c and
* base.h file
 as derived from the output of yacc, to be used by
* the specified program.
*/
#define NormalYaccTarget(program,base) @!\
SimpleYaccTarget(program,base) @!\
SimpleYaccInclude(base)


/*
* IdentifiedYaccTarget:
```

```
* Declare a yacc base.y file which should produce a base.c and
* base.h file as derived from the output of yacc, to be used by
* the specified program. The specified prefix is used to remplace
* all the 'yy' in the generated file, for use when more than a
* single parser is needed in one executable.
*/
#define IdentifiedYaccTarget(program,base,prefix) @!\
ComplexYaccTarget(program,base,prefix) @!\
ComplexYaccInclude(base,prefix)


/*
* SimpleLexTarget:
* This declares a lex base.l file which is to be ran through
* lex to produce a base.c file.
*/
#define SimpleLexTarget(program,base) @!\
++SOURCES base.l @!\
++OBJECTS base.o @!\
|once _LexRule_     @!\
|rule:.l.c:      @!\
|rule: $(LEX) $(JLFLAGS) $<  @!\
|rule: $(MV) lex.yy.c $@  @!\
|rule:       @!\
-once       @!\
AddSuffix(.l)   @!\
program:
 base.c   @!\
     @!\
local_realclean::  @@\
 $(RM) base.c  @!\


/*
* IdentifiedLexTarget:
* This declares a lex base.l file which is to be ran through
* lex to produce a base.c file. The prefix is used to replace
* the 'yy', so that the lexical analyzer may be identified.
*/
#define IdentifiedLexTarget(program,base,prefix) @!\
++SOURCES base.l @!\
++OBJECTS base.o @!\
program: base.c   @!\
     @!\
base.c: base.l     @@\
 $(LEX) $(JLFLAGS) base.l @@\
 $(SED) -e 's/yy\(.\)/prefix\1/g' < lex.yy.c > base.c @@\
 $(RM) lex.yy.c    @!\
```

```
    @!\
local_realclean::  @@\
 $(RM) base.c  @!\


/*
* NormalLexDependTarget:
* Declare that program will need an include file produced by
* the output of lex on base.l, which typically produces a file
* named lex.yy.c which will be renamed as base.c. Besides, the
* lexical analyzer needs the file parser.h produced by running
* parser.y through yacc and renaming y.tab.h as parser.h.
*/
#define NormalLexDependTarget(program,base,parser)
 @!\
base.o: parser.h @!\
    @!\
SimpleLexTarget(program,base)


/*
* IdentifiedLexDependTarget:
* Declare that program will need an include file produced by
* the output of lex on base.l, which typically produces a file
* named lex.yy.c which will be renamed as base.c. Besides, the
* lexical analyzer needs the file parser.h produced by running
* parser.y through yacc and renaming y.tab.h as parser.h.
* The lexical analyzer is identified with the supplied prefix,
* which replaces the regular 'yy' prefix in the symbol names.
*/
#define IdentifiedLexDependTarget(program,base,parser,prefix) @!\
base.o: parser.h @!\
    @!\
IdentifiedLexTarget(program,base,prefix)


/*
* NormalParserTarget:
* Specify that program is using the lex/yacc combination to
* produce a parser. The lexic and parser parameters are the
* base name of the .l and .y file, respectively.
*/
#define NormalParserTarget(program,lexic,parser) @!\
NormalLexDependTarget(program,lexic,parser)
 @!\
NormalYaccTarget(program,parser)
```

```
/*
* IdentifiedParserTarget:
* Specify that program is using the lex/yacc combination to
* produce a parser. The lexic and parser parameters are the
* base name of the .l and .y file, respectively. The parser
* produced is identified via its prefix, which replaces all
* the normally supplied 'yy' prefix, hence making it possible
* to have multiple parsers in a single executable.
*/
#define IdentifiedParserTarget(program,lexic,parser,prefix) @!\
IdentifiedLexDependTarget(program,lexic,parser,prefix) @!\
IdentifiedYaccTarget(program,parser,prefix)
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/files/Jmake.rules
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_math.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_math.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:21:59  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:i_math: Inhdr
?MAKE: -pick add $@ %<
?X: Are there really systems that *DON'T* have math.h?
?S:i_math:
?S: This variable conditionally defines the I_MATH symbol, and indicates
?S: whether a C program may include <math.h>.
?S:.
?C:I_MATH:
?C: This symbol, if defined, indicates
 to the C program that it should
?C: include <math.h>.
?C:.
?H:#$i_math I_MATH  /**/
?H:.
```

```
?LINT:set i_math
: see if this is a math.h system
set math.h i_math
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_math.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_nl_langinfo: Inlibc i_langinfo
?MAKE: -pick add $@ %<
?S:d_nl_langinfo:
?S: This variable conditionally defines the HAS_NL_LANGINFO symbol, which
?S: indicates to the C program that the nl_langinfo() routine is available.
?S:.
?C:HAS_NL_LANGINFO:
?C: This symbol, if defined, indicates that the nl_langinfo routine is
?C: available to return local data.  You will also need <langinfo.h>
?C: and therefore I_LANGINFO.
?C:.
?H:#$d_nl_langinfo HAS_NL_LANGINFO  /**/
?H:.
?LINT:set d_nl_langinfo
?LINT:use i_langinfo
: see if nl_langinfo exists
set nl_langinfo d_nl_langinfo
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_nl_langinfo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_readdir_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
```

```
?RCS:
?MAKE:d_readdir_r readdir_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_dirent extern_C
?MAKE: -pick add $@ %<
?S:d_readdir_r:
?S: This variable conditionally defines the HAS_READDIR_R symbol,
?S: which indicates to the C program that the readdir_r()
?S: routine is available.
?S:.
?S:readdir_r_proto:
?S: This variable encodes the prototype of readdir_r.
?S: It is zero if d_readdir_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_readdir_r
?S: is defined.
?S:.
?C:HAS_READDIR_R:
?C: This symbol, if defined, indicates that the readdir_r routine
?C: is available to readdir re-entrantly.
?C:.
?C:READDIR_R_PROTO:
?C: This
 symbol encodes the prototype of readdir_r.
?C: It is zero if d_readdir_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_readdir_r
?C: is defined.
?C:.
?H:#$d_readdir_r HAS_READDIR_R /**/
?H:#define READDIR_R_PROTO $readdir_r_proto /**/
?H:.
?T:try hdrs d_readdir_r_proto
: see if readdir_r exists
set readdir_r d_readdir_r
eval $inlibc
case "$d_readdir_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_dirent dirent.h"
 case "$d_readdir_r_proto:$usethreads" in
 ":define") d_readdir_r_proto=define
  set d_readdir_r_proto readdir_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_readdir_r_proto" in
 define)
 case "$readdir_r_proto" in
 "|0) try='int readdir_r(DIR*, struct dirent*, struct dirent**);'
 ./protochk "$extern_C $try" $hdrs && readdir_r_proto=I_TSR ;;
 esac
```

```
 case "$readdir_r_proto" in
 "|0) try='int readdir_r(DIR*, struct dirent*);'
 ./protochk "$extern_C $try" $hdrs && readdir_r_proto=I_TS
 ;;
 esac
 case "$readdir_r_proto" in
 "|0) d_readdir_r=undef
  readdir_r_proto=0
  echo "Disabling readdir_r, cannot determine prototype." >&4 ;;
 * ) case "$readdir_r_proto" in
  REENTRANT_PROTO*) ;;
  *) readdir_r_proto="REENTRANT_PROTO_$readdir_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "readdir_r has no prototype, not using it." >&4 ;;
  esac
  d_readdir_r=undef
  readdir_r_proto=0
  ;;
 esac
 ;;
*) readdir_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_readdir_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysparam.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysparam.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:22:43  ram
?RCS: patch32: created
?RCS:
?MAKE:i_sysparam: Inhdr
```

```
?MAKE: -pick add $@ %<
?S:i_sysparam:
?S: This variable conditionally defines the I_SYS_PARAM symbol, and indicates
?S: whether a C program should include <sys/param.h>.
?S:.
?C:I_SYS_PARAM:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/param.h>.
?C:.
?H:#$i_sysparam I_SYS_PARAM  /**/
?H:.
?LINT:set
 i_sysparam
: see if this is a sys/param system
set sys/param.h i_sysparam
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sysparam.U
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```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_gethbynm.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_gethbynm: Inlibc
?MAKE: -pick add $@ %<
?S:d_gethbynm (d_gethhstby):
?S: This variable conditionally defines the HAS_GETHOSTBYNAME symbol, which
?S: indicates to the C program that the gethostbyname() routine is available
?S: to lookup host names in some data base or other.
?S:.
?C:HAS_GETHOSTBYNAME (GETHOSTBYNAME):
?C: This symbol, if defined, indicates that the gethostbyname()
 routine is
?C: available to lookup host names in some data base or other.
?C:.
```

```
?H:#$d_gethbynm HAS_GETHOSTBYNAME  /**/
?H:.
?LINT:set d_gethbynm
: see if gethostbyname exists
set gethostbyname d_gethbynm
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_gethbynm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_erfc: Inlibc
?MAKE: -pick add $@ %<
?S:d_erfc:
?S: This variable conditionally defines the HAS_ERFC symbol, which
?S: indicates to the C program that the erfc() routine is available.
?S:.
?C:HAS_ERFC:
?C: This symbol, if defined, indicates that the erfc routine is
?C: available to do the complementary error function.
?C:.
?H:#$d_erfc HAS_ERFC  /**/
?H:.
?LINT:set d_erfc
: see if erfc exists
set erfc d_erfc
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_erfc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysmount.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysmount: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysmount:
?S: This variable conditionally defines the I_SYSMOUNT symbol,
```

```
?S: and indicates whether a C program should include <sys/mount.h>.
?S:.
?C:I_SYS_MOUNT:
?C: This symbol, if defined, indicates that <sys/mount.h> exists and
?C: should be included.
?C:.
?H:#$i_sysmount I_SYS_MOUNT  /**/
?H:.
?LINT:set i_sysmount
: see if this is a sys/mount.h system
set sys/mount.h i_sysmount
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_sysmount.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: Original author Jarkko Hietaniemi <jhi@iki.fi>
?RCS: Merged into dist by Andy Dougherty  July 13, 1998
?RCS:
?MAKE:trnl: Nothing
?MAKE: -pick add $@ %<
?S:trnl:
?S: This variable contains the value to be passed to the tr(1)
?S: command to transliterate a newline.  Typical values are
?S: '\012' and '\n'.  This is needed for EBCDIC systems where
?S: newline is not necessarily '\012'.
?S:.
?T: DJGPP
: Find the appropriate value for a newline for tr
?X: We can't
 use $tr since that would cause a circular dependency via Myread
?X: dos djgpp uses '\015\012', but reportedly is happy with '\012' in the
?X: tr command.  I don't know why it passes the '\n' test but later
?X: refuses to work correctly with it.  --AD  6/14/98
```

```
if test -n "$DJGPP"; then
	trnl='\012'
fi
if test X"$trnl" = X; then
 case "`echo foo | tr '\n' x 2>/dev/null`" in
 foox) trnl='\n' ;;
 esac
fi
if test X"$trnl" = X; then
 case "`echo foo | tr '\012' x 2>/dev/null`" in
 foox) trnl='\012' ;;
 esac
fi
if test X"$trnl" = X; then
	case "`echo foo | tr '\r\n' xy 2>/dev/null`" in
	fooxy) trnl='\n\r' ;;
	esac
fi
if test X"$trnl" = X; then
 cat <<EOM >&2

$me: Fatal Error: cannot figure out how to translate newlines with 'tr'.

EOM
 exit 1
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/trnl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_drand48_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_drand48_r drand48_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_stdlib extern_C
?MAKE: -pick add $@ %<
?S:d_drand48_r:
?S: This variable conditionally defines the HAS_DRAND48_R symbol,
?S: which indicates to the C program that the drand48_r()
?S: routine is available.
?S:.
```

```
?S:drand48_r_proto:
?S: This variable encodes the prototype of drand48_r.
?S: It is zero if d_drand48_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_drand48_r
?S: is defined.
?S:.
?C:HAS_DRAND48_R:
?C: This symbol, if defined, indicates that the drand48_r routine
?C: is available to drand48 re-entrantly.
?C:.
?C:DRAND48_R_PROTO:
?C: This
 symbol encodes the prototype of drand48_r.
?C: It is zero if d_drand48_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_drand48_r
?C: is defined.
?C:.
?H:#$d_drand48_r HAS_DRAND48_R /**/
?H:#define DRAND48_R_PROTO $drand48_r_proto /**/
?H:.
?T:try hdrs d_drand48_r_proto
: see if drand48_r exists
set drand48_r d_drand48_r
eval $inlibc
case "$d_drand48_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_stdlib stdlib.h"
 case "$d_drand48_r_proto:$usethreads" in
 ":define") d_drand48_r_proto=define
  set d_drand48_r_proto drand48_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_drand48_r_proto" in
 define)
 case "$drand48_r_proto" in
 "|0) try='int drand48_r(struct drand48_data*, double*);'
 ./protochk "$extern_C $try" $hdrs && drand48_r_proto=I_ST ;;
 esac
 case "$drand48_r_proto" in
 "|0) d_drand48_r=undef
  drand48_r_proto=0
  echo "Disabling drand48_r, cannot determine prototype." >&4 ;;
 * ) case
 "$drand48_r_proto" in
  REENTRANT_PROTO*) ;;
  *) drand48_r_proto="REENTRANT_PROTO_$drand48_r_proto" ;;
  esac
```

```
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "drand48_r has no prototype, not using it." >&4 ;;
  esac
  d_drand48_r=undef
  drand48_r_proto=0
  ;;
 esac
 ;;
*) drand48_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_drand48_r.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_casti32.U,v $
?RCS: Revision 3.0.1.3  1995/05/12  12:10:45  ram
?RCS: patch54: made sure cc and ccflags are conditional dependencies
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:09:37  ram
?RCS: patch36: declare signal handler correctly (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:06  ram
?RCS: patch32: created by ADO
?RCS:
?X:
?X: Can the compiler cast large floats to 32-bit integers?
?X:
?MAKE:d_casti32: cat
 +cc +ccflags rm_try intsize Setvar test signal_t
?MAKE: -pick add $@ %<
```

```
?S:d_casti32:
?S: This variable conditionally defines CASTI32, which indicates
?S: whether the C compiler can cast large floats to 32-bit ints.
?S:.
?C:CASTI32:
?C: This symbol is defined if the C compiler can cast negative
?C: or large floating point numbers to 32-bit ints.
?C:.
?T:xxx yyy
?H:#$d_casti32 CASTI32  /**/
?H:.
?F:!try
?LINT:set d_casti32
: check for ability to cast large floats to 32-bit ints.
echo " "
echo 'Checking whether your C compiler can cast large floats to int32.' >&4
if $test "$intsize" -eq 4; then
 xxx=int
else
 xxx=long
fi
$cat >try.c <<EOCP
#include <sys/types.h>
#include <signal.h>
$signal_t blech() { exit(3); }
int main()
{
 $xxx i32;
 double f;
 int result = 0;
 signal(SIGFPE, blech);

 f = (double) 0x7fffffff;
 f = 10 * f;
 i32  = ($xxx) f;

 if (i32 != ($xxx) f)
  result |= 1;
 exit(result);
}
EOCP
if $cc $ccflags -o try try.c >/dev/null 2>&1; then
 ./try
 yyy=$?
else
 echo "(I can't
 seem to compile the test program--assuming it can't)"
 yyy=1
```

```
fi
case "$yyy" in
0) val="$define"
 echo "Yup, it can."
 ;;
*) val="$undef"
 echo "Nope, it can't."
 ;;
esac
set d_casti32
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_casti32.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: filexp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: filexp.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:filexp: privlib
?MAKE: -pick add $@ %<
?S:filexp:
?S: This symbol contains the full pathname of the filexp script, in case we
?S: are saving the script for posterity.
?S:.
: must not allow self reference
case "$privlib" in
 /*)
 filexp=$privlib/filexp
 ;;
 *)
 filexp=`pwd`/filexp
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/filexp_path.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getitimer: Inlibc
?MAKE: -pick add $@ %<
?S:d_getitimer:
?S: This variable conditionally defines the HAS_GETITIMER symbol, which
?S: indicates to the C program that the getitimer() routine is available.
?S:.
?C:HAS_GETITIMER:
?C: This symbol, if defined, indicates that the getitimer routine is
?C: available to return interval timers.
?C:.
?H:#$d_getitimer HAS_GETITIMER  /**/
?H:.
?LINT:set d_getitimer
: see if getitimer exists
set getitimer d_getitimer
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_getitimer.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_tcstpgrp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_tcstpgrp.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:12:11  ram
```

```
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_tcsetpgrp: Inlibc
?MAKE: -pick add $@ %<
?S:d_tcsetpgrp:
?S: This variable conditionally defines the HAS_TCSETPGRP symbol, which
?S: indicates to the C program that the tcsetpgrp() routine is available
?S: to set foreground process group ID.
?S:.
?C:HAS_TCSETPGRP
 :
?C: This symbol, if defined, indicates that the tcsetpgrp routine is
?C: available to set foreground process group ID.
?C:.
?H:#$d_tcsetpgrp HAS_TCSETPGRP  /**/
?H:.
?LINT:set d_tcsetpgrp
: see if tcsetpgrp exists
set tcsetpgrp d_tcsetpgrp
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_tcstpgrp.U
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```
?RCS: $Id: d_union_semun.U,v $
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_union_semun.U,v $
?RCS:
?MAKE:d_union_semun d_semctl_semun d_semctl_semid_ds: Compile Setvar Myread run \
 cat rm_try d_sem
?MAKE: -pick add $@ %<
?S:d_union_semun:
?S: This variable conditionally defines HAS_UNION_SEMUN if the
?S: union semun is defined by including <sys/sem.h>.
?S:.
?S:d_semctl_semun:
?S: This variable conditionally defines USE_SEMCTL_SEMUN, which
?S: indicates that union semun is to be used for semctl IPC_STAT.
?S:.
?S:d_semctl_semid_ds:
?S: This variable conditionally defines USE_SEMCTL_SEMID_DS, which
```

```
?S: indicates that struct semid_ds * is to be used for semctl IPC_STAT.
?S:.
?C:HAS_UNION_SEMUN:
?C: This symbol, if defined, indicates that the union semun
 is
?C: defined by including <sys/sem.h>.  If not, the user code
?C: probably needs to define it as:
?C:  union semun {
?C:     int val;
?C:     struct semid_ds *buf;
?C:     unsigned short *array;
?C:  }
?C:.
?C:USE_SEMCTL_SEMUN:
?C: This symbol, if defined, indicates that union semun is
?C: used for semctl IPC_STAT.
?C:.
?C:USE_SEMCTL_SEMID_DS:
?C: This symbol, if defined, indicates that struct semid_ds * is
?C: used for semctl IPC_STAT.
?C:.
?H:#$d_union_semun HAS_UNION_SEMUN /**/
?H:#$d_semctl_semun USE_SEMCTL_SEMUN /**/
?H:#$d_semctl_semid_ds USE_SEMCTL_SEMID_DS /**/
?H:.
?T:xxx also
?F:!try !tryh.h
?LINT: set d_union_semun d_semctl_semun d_semctl_semid_ds
: see whether sys/sem.h defines union semun
echo " "
$cat > try.c <<'END'
#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/sem.h>
int main () { union semun semun; semun.buf = 0; }
END
set try
if eval $compile; then
   echo "You have union semun in <sys/sem.h>." >&4
   val="$define"
else
   echo "You do not have union
 semun in <sys/sem.h>." >&4
   val="$undef"
fi
$rm_try
set d_union_semun
eval $setvar
```

```
: see how to do semctl IPC_STAT
case "$d_sem" in
$define)
   echo " "
?X: use tryh.h instead of try.h because $rm_try cleans up try.*
   $cat > tryh.h <<END
#ifndef S_IRUSR
#   ifdef S_IREAD
# define S_IRUSR S_IREAD
# define S_IWUSR S_IWRITE
# define S_IXUSR S_IEXEC
#   else
# define S_IRUSR 0400
# define S_IWUSR 0200
# define S_IXUSR 0100
#   endif
#   define S_IRGRP (S_IRUSR>>3)
#   define S_IWGRP (S_IWUSR>>3)
#   define S_IXGRP (S_IXUSR>>3)
#   define S_IROTH (S_IRUSR>>6)
#   define S_IWOTH (S_IWUSR>>6)
#   define S_IXOTH (S_IXUSR>>6)
#endif
#ifndef S_IRWXU
#   define S_IRWXU (S_IRUSR|S_IWUSR|S_IXUSR)
#   define S_IRWXG (S_IRGRP|S_IWGRP|S_IXGRP)
#   define S_IRWXO (S_IROTH|S_IWOTH|S_IXOTH)
#endif
END
   : see whether semctl IPC_STAT can use union semun
   case "$d_semctl_semun" in
   ")
     val="$undef"
     $cat > try.c <<END
#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/sem.h>
#include
 <sys/stat.h>
#include <stdio.h>
#include <errno.h>
#include "tryh.h"
#ifndef errno
extern int errno;
#endif
#$d_union_semun HAS_UNION_SEMUN
int main() {
```

```
  union semun
#ifndef HAS_UNION_SEMUN
  {
 int val;
 struct semid_ds *buf;
 unsigned short *array;
  }
#endif
  arg;
  int sem, st;

#if defined(IPC_PRIVATE) && defined(S_IRWXU) && defined(S_IRWXG) && defined(S_IRWXO) &&
defined(IPC_CREAT)
  sem = semget(IPC_PRIVATE, 1, S_IRWXU|S_IRWXG|S_IRWXO|IPC_CREAT);
  if (sem > -1) {
 struct semid_ds argbuf;
 arg.buf = &argbuf;
# ifdef IPC_STAT
 st = semctl(sem, 0, IPC_STAT, arg);
 if (st == 0)
    printf("semun\n");
 else
# endif /* IPC_STAT */
    printf("semctl IPC_STAT failed: errno = %d\n", errno);
# ifdef IPC_RMID
 if (semctl(sem, 0, IPC_RMID, arg) != 0)
# endif /* IPC_RMID */
    printf("semctl IPC_RMID failed: errno = %d\n", errno);
  } else
#endif /* IPC_PRIVATE && ... */
 printf("semget failed: errno = %d\n", errno);
 return 0;
}
END
    set try

    if eval $compile; then
  xxx=`$run ./try`
        case "$xxx" in
        semun) val="$define" ;;
        esac
    fi
    $rm_try
    set d_semctl_semun
    eval $setvar
    ;;
  esac
  case "$d_semctl_semun" in
```

```
  $define)
      echo "You can use union semun for semctl IPC_STAT." >&4
 also='also'
      ;;
  *)  echo "You cannot use union semun for semctl IPC_STAT." >&4
 also=''
      ;;
  esac

  : see whether semctl IPC_STAT can use struct semid_ds pointer
  case "$d_semctl_semid_ds" in
  ")
    val="$undef"
    $cat > try.c <<'END'
#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/sem.h>
#include <sys/stat.h>
#include "tryh.h"
#include <stdio.h>
#include <errno.h>
#ifndef errno
extern int errno;
#endif
int main() {
  union semun
#ifndef HAS_UNION_SEMUN
  {
 int val;
 struct semid_ds *buf;
 unsigned short *array;
  }
#endif
  arg;
  struct semid_ds argbuf;
  int sem, st;

#if defined(IPC_PRIVATE) && defined(S_IRWXU) &&
 defined(S_IRWXG) &&  defined(S_IRWXO) && defined(IPC_CREAT)
  sem = semget(IPC_PRIVATE, 1, S_IRWXU|S_IRWXG|S_IRWXO|IPC_CREAT);
  if (sem > -1) {
 arg.buf = &argbuf;
# ifdef IPC_STAT
 st = semctl(sem, 0, IPC_STAT, arg);
 if (st == 0)
     printf("semid_ds\n");
 else
# endif /* IPC_STAT */
```

```
    printf("semctl IPC_STAT failed: errno = %d\n", errno);
# ifdef IPC_RMID
 if (semctl(sem, 0, IPC_RMID, arg) != 0)
# endif /* IPC_RMID */
    printf("semctl IPC_RMID failed: errno = %d\n", errno);
  } else
#endif /* IPC_PRIVATE && ... */
 printf("semget failed: errno = %d\n", errno);

  return 0;
}
END
    set try
    if eval $compile; then
        xxx=`$run ./try`
        case "$xxx" in
        semid_ds) val="$define" ;;
        esac
    fi
    $rm_try
    set d_semctl_semid_ds
    eval $setvar
    ;;
  esac
  case "$d_semctl_semid_ds" in
  $define)
      echo "You can $also use struct semid_ds* for semctl IPC_STAT." >&4
      ;;
  *)  echo "You cannot use
 struct semid_ds* for semctl IPC_STAT." >&4
      ;;
  esac
  ;;
*)  val="$undef"

  # We do not have the full sem*(2) library, so assume we can not
  # use either.

  set d_semctl_semun
  eval $setvar

  set d_semctl_semid_ds
  eval $setvar
  ;;
esac
$rm_try tryh.h
```

Found in path(s):

* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_union_semun.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in order
?X: to make quick check on whether the current C compiler is working.
?X:
?MAKE:Checkcc ccname ccversion: Myread Warn startsh cat contains test
?MAKE: -pick add $@ %<
?S:ccname:
?S: This can set either by hints files or by Configure.  If using
?S: gcc, this is gcc, and if not, usually equal to cc, unimpressive, no?
?S: Some platforms, however, make good use of this by storing the
?S: flavor
 of the C compiler being used here.  For example if using
?S: the Sun WorkShop suite, ccname will be 'workshop'.
?S:.
?S:ccversion:
?S: This can set either by hints files or by Configure.  If using
?S: a (non-gcc) vendor cc, this variable may contain a version for
?S: the compiler.
?S:.
?F:./checkcc ./trygcc !checktmp
?V:despair
?T:trygcc
?LINT:extern cc rm ccflags ldflags
?LINT:change cc ccflags
?LINT:usefile checktmp
?INIT:ccname=''
?INIT:ccversion=''
: generate the trygcc script for later perusal
cat <<EOS >trygcc
$startsh
EOS
cat <<'EOSC' >>trygcc
```

```
case "$cc" in
") ;;
*)  $rm -f try try.*
   $cat >try.c <<EOM
int main(int argc, char *argv[]) {
 (void) argc;
 (void) argv;
 return 0;
}
EOM
   if $cc -o try $ccflags $ldflags try.c; then
      :
   else
       echo "Uh-oh, the C compiler '$cc' doesn't seem to be working." >&4
       despair=yes
       trygcc=yes
       case "$cc" in
       *gcc*) trygcc=no ;;
       esac
       case "`$cc -v -c try.c 2>&1`" in

      *gcc*) trygcc=no ;;
       esac
       if $test X"$trygcc" = Xyes; then
           if gcc -o try -c try.c; then
               echo " "
               echo "You seem to have a working gcc, though." >&4
               rp="Would you like to use it?"
               dflt=y
               if $test -f myread; then
                   . ./myread
               else
                   if $test -f UU/myread; then
                       . ./UU/myread
                   else
                       echo "Cannot find myread, sorry.  Aborting." >&2
                       exit 1
                   fi
               fi
               case "$ans" in
               [yY]*) cc=gcc; ccname=gcc; ccflags=''; despair=no;
?X: Look whether we have 'call-back units' generated by hints that would
?X: seemingly affect the compiling environment.
                       $cat *.cbu >checktmp 2>/dev/null
                       if $contains ccflags checktmp >/dev/null; then

       ./warn <<EOM
Any previous setting of the C compiler flags has been lost.
```

```
It may be necessary to pass -Dcc=gcc to Configure right away.
EOM
                    fi;;
            esac
        fi
    fi
  fi
  $rm -f try try.*
  ;;
esac
EOSC

: generate the checkcc script for later perusal
cat <<EOS >checkcc
$startsh
EOS
cat <<'EOSC' >>checkcc
case "$cc" in
") ;;
*)  $rm -f try try.*
  $cat >try.c <<EOM
int main(int argc, char *argv[]) {
 (void) argc;
 (void) argv;
 return 0;
}
EOM
  if $cc -o try $ccflags $ldflags try.c; then
    :
  else
    if $test X"$despair" = Xyes; then
      echo "Uh-oh, the C compiler '$cc' doesn't seem to be working." >&4
    fi
    $cat >&4 <<EOM
You need to find a working C compiler.
Either (purchase and) install the C compiler supplied by your OS vendor,
or for a free C compiler try http://gcc.gnu.org/
I cannot continue any further, aborting.
EOM
    exit 1
  fi

 $rm -f try try.*
  ;;
esac
EOSC

Found in path(s):
```

* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Checkcc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpgid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getpgid.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:33:44  ram
?RCS: patch61: created
?RCS:
?MAKE:d_getpgid: Inlibc
?MAKE: -pick add $@ %<
?S:d_getpgid:
?S: This variable conditionally defines the HAS_GETPGID symbol, which
?S: indicates to the C program that the getpgid(pid) function
?S: is available to get the process group id.
?S:.
?C:HAS_GETPGID:
?C: This symbol, if defined, indicates to the C program
 that
?C: the getpgid(pid) function is available to get the
?C: process group id.
?C:.
?H:#$d_getpgid HAS_GETPGID  /**/
?H:.
?LINT:set d_getpgid
: see if getpgid exists
set getpgid d_getpgid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getpgid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpwnam_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getpwnam_r getpwnam_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_pwd extern_C
?MAKE: -pick add $@ %<
?S:d_getpwnam_r:
?S: This variable conditionally defines the HAS_GETPWNAM_R symbol,
?S: which indicates to the C program that the getpwnam_r()
?S: routine is available.
?S:.
?S:getpwnam_r_proto:
?S: This variable encodes the prototype of getpwnam_r.
?S: It is zero if d_getpwnam_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getpwnam_r
?S: is defined.
?S:.
?C:HAS_GETPWNAM_R:
?C: This symbol, if defined, indicates that the getpwnam_r routine
?C: is available to
 getpwnam re-entrantly.
?C:.
?C:GETPWNAM_R_PROTO:
?C: This symbol encodes the prototype of getpwnam_r.
?C: It is zero if d_getpwnam_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getpwnam_r
?C: is defined.
?C:.
?H:#$d_getpwnam_r HAS_GETPWNAM_R /**/
?H:#define GETPWNAM_R_PROTO $getpwnam_r_proto /**/
?H:.
?T:try hdrs d_getpwnam_r_proto
: see if getpwnam_r exists
set getpwnam_r d_getpwnam_r
eval $inlibc
case "$d_getpwnam_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_pwd pwd.h"
 case "$d_getpwnam_r_proto:$usethreads" in
 ":define") d_getpwnam_r_proto=define
  set d_getpwnam_r_proto getpwnam_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getpwnam_r_proto" in
 define)
 case "$getpwnam_r_proto" in
```

```
"|0) try='int getpwnam_r(const char*, struct passwd*, char*, size_t, struct passwd**);'
./protochk "$extern_C $try" $hdrs && getpwnam_r_proto=I_CSBWR ;;
esac
case "$getpwnam_r_proto" in
"|0) try='int getpwnam_r(const char*, struct passwd*,
char*, int, struct passwd**);'
./protochk "$extern_C $try" $hdrs && getpwnam_r_proto=I_CSBIR ;;
esac
case "$getpwnam_r_proto" in
"|0) try='struct passwd* getpwnam_r(const char*, struct passwd*, char*, int);'
./protochk "$extern_C $try" $hdrs && getpwnam_r_proto=S_CSBI ;;
esac
case "$getpwnam_r_proto" in
"|0) try='int getpwnam_r(const char*, struct passwd*, char*, int);'
./protochk "$extern_C $try" $hdrs && getpwnam_r_proto=I_CSBI ;;
esac
case "$getpwnam_r_proto" in
"|0) d_getpwnam_r=undef
 getpwnam_r_proto=0
 echo "Disabling getpwnam_r, cannot determine prototype." >&4 ;;
* ) case "$getpwnam_r_proto" in
 REENTRANT_PROTO*) ;;
 *) getpwnam_r_proto="REENTRANT_PROTO_$getpwnam_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "getpwnam_r has no prototype, not using it." >&4 ;;
 esac
 d_getpwnam_r=undef
 getpwnam_r_proto=0
 ;;
esac
;;
*) getpwnam_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getpwnam_r.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_mkfifo.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_mkfifo.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:14:17  ram
?RCS: patch36: created by ADO
?RCS:
?RCS:
?MAKE:d_mkfifo: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkfifo:
?S: This variable conditionally defines the HAS_MKFIFO symbol, which
?S: indicates to the C program that the mkfifo() routine is available.
?S:.
?C:HAS_MKFIFO :
?C: This symbol, if defined, indicates that the mkfifo
 routine is
?C: available to create FIFOs. Otherwise, mknod should be able to
?C: do it for you. However, if mkfifo is there, mknod might require
?C: super-user privileges which mkfifo will not.
?C:.
?H:#$d_mkfifo HAS_MKFIFO  /**/
?H:.
?LINT:set d_mkfifo
: see if mkfifo exists
set mkfifo d_mkfifo
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_mkfifo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
```

```
?MAKE:d_ustat: Inlibc
?MAKE: -pick add $@ %<
?S:d_ustat:
?S: This variable conditionally defines HAS_USTAT if ustat() is
?S: available to query file system statistics by dev_t.
?S:.
?C:HAS_USTAT:
?C: This symbol, if defined, indicates that the ustat system call is
?C: available to query file system statistics by dev_t.
?C:.
?H:#$d_ustat HAS_USTAT  /**/
?H:.
?LINT:set d_ustat
: see if ustat exists
set ustat d_ustat
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_ustat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: contains.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: contains.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:contains: Nothing
?MAKE: -pick add $@ %<
?S:contains:
?S: This variable holds the command to do a grep with a proper return
?S: status.  On most sane systems it is simply "grep".  On insane systems
?S: it is a grep followed by a cat followed by a test.  This variable
?S: is primarily for the use of other Configure units.
?S:.
: Some
 greps do not return status, grrr.
echo "grimblepritz" >grimble
if grep blurfldyick grimble >/dev/null 2>&1 ; then
```

```
 contains=contains
elif grep grimblepritz grimble >/dev/null 2>&1 ; then
 contains=grep
else
 contains=contains
fi
rm -f grimble
: the following should work in any shell
case "$contains" in
contains*)
 echo " " >&4
 echo "AGH!  Grep doesn't return a status.  Attempting remedial action." >&4
 cat >contains <<'EOSS'
grep "$1" "$2" >.greptmp && cat .greptmp && test -s .greptmp
EOSS
contains=./contains
chmod +x $contains
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/contains.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fmin: Inlibc
?MAKE: -pick add $@ %<
?S:d_fmin:
?S: This variable conditionally defines the HAS_FMIN symbol, which
?S: indicates to the C program that the fmin() routine is available.
?S:.
?C:HAS_FMIN:
?C: This symbol, if defined, indicates that the fmin routine is
?C: available to do the minimum function.
?C:.
?H:#$d_fmin HAS_FMIN  /**/
?H:.
?LINT:set d_fmin
: see if fmin exists
set fmin d_fmin
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fmin.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_copysignl: Inlibc
?MAKE: -pick add $@ %<
?S:d_copysignl:
?S: This variable conditionally defines the HAS_COPYSIGNL symbol, which
?S: indicates to the C program that the copysignl() routine is available.
?S: If aintl is also present we can emulate modfl.
?S:.
?C:HAS_COPYSIGNL:
?C: This symbol, if defined, indicates that the copysignl routine is
?C: available.  If aintl is also present we can emulate modfl.
?C:.
?H:#$d_copysignl HAS_COPYSIGNL  /**/
?H:.
?LINT:set d_copysignl
: see if copysignl exists
set copysignl d_copysignl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_copysignl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Loc.U 14 2006-08-28 16:51:14Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Loc.U,v $
?RCS: Revision 3.0.1.10  1997/02/28  15:04:16  ram
?RCS: patch61: allow users to specify paths on the command line
?RCS: patch61: will now substitute cp for ln if not supported
?RCS:
?RCS: Revision 3.0.1.9  1995/09/25  09:11:24  ram
```

```
?RCS: patch59: commented the purpose of the #un-def directive
?RCS: patch59: abort Configure run when mandatory command is missing
?RCS:
?RCS: Revision 3.0.1.8  1995/07/25  13:40:40  ram
?RCS: patch56: now knows about
 OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.7  1995/01/11  15:13:37  ram
?RCS: patch45: protected "sh -c" within backquotes for Linux and SGI
?RCS: patch45: added path lookup for the 'comm' program
?RCS:
?RCS: Revision 3.0.1.6  1994/10/29  15:56:14  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: be careful and guard against wildcard searching (ADO)
?RCS:
?RCS: Revision 3.0.1.5  1994/06/20  06:54:55  ram
?RCS: patch30: now locates find
?RCS:
?RCS: Revision 3.0.1.4  1994/05/13  15:18:15  ram
?RCS: patch27: added byacc to the trylist (ADO)
?RCS: patch27: lint lines reformatted (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/01/24  14:01:44  ram
?RCS: patch16: added metalint hint on changed PATH variable
?RCS:
?RCS: Revision 3.0.1.2  1993/12/15  08:16:52  ram
?RCS: patch15: now set _test variable when test is built-in
?RCS: patch15: fixed rare cases where echo is not needed
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  15:47:13  ram
?RCS: patch10: test program not always
 in /bin/test (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script "loc" which can be used to find out
?X: where in a list of directories something is.  It then uses loc to
?X: determine the location of commonly used programs.  It leaves loc sitting
?X: around for other Configure units to use, but arranges for its demise
?X: at the end of Configure.
?X:
?X: To add a new program to find, add it both to the ?MAKE: line and to either
?X: the loclist or trylist variable.
?X:
?X: I put startsh at the end of the dependency list, in order to avoid the
?X: loading of the spitshell unit before the instructions.
```

```
?X:
?MAKE:Loc awk ar bash bison byacc cat chgrp chmod chown \
 comm compress cp cpio cpp csh date echo egrep emacs expr find flex \
 gmake gzip grep inews ksh less line lint ln lp lpr ls mail mailx \
 make mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \
 shar sleep smail sort
 submit tail tar tbl tee test touch tr troff \
 uname uniq uuname vi zcat zip: eunicefix n c startsh Instruct sysroot
?MAKE: -pick weed $@ %<
?LINT:describe awk ar bash bison byacc cat chgrp chmod chown \
 comm compress cp cpio cpp csh date echo egrep emacs expr find flex \
 gmake gzip grep inews ksh less line lint ln lp lpr ls mail mailx \
 make mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \
 shar sleep smail sort submit tail tar tbl tee test touch tr troff \
 uname uniq uuname vi zcat zip
?V::pth loclist trylist
?F:./loc test_h
?T:thisthing thing xxx dir file say _test DJGPP
?LINT:change PATH _egrep _ln _make _less
?LINT:extern _exe
: find out where common programs are
echo " "
echo "Locating common programs..." >&4
cat <<EOSC >loc
$startsh
case \$# in
0) exit 1;;
esac
thing=\$1
shift
dflt=\$1
shift
for dir in \$*; do
 case "\$thing" in
 .)
 if test -d \$dir/\$thing; then
  echo \$dir
  exit 0
 fi
 ;;
 *)
?X: Be careful in case thing includes wildcards that might expand
 to multiple
?X: files.  Choose the last one.  This happens when searching for shared
?X: libraries with version numbers.  How to choose which one we want is
?X: probably an insoluble problem, in general.
?X: Some folks leave things like libc.so.orig around w/o read
?X: permission.  A -r test would handle that, but since ./loc is
```

```
?X: also used to find executables (which are installed w/o read
?X: permission on SCO ODT 3.0, we can't include the -r test.
?X: If you need to use an _exe that is different from .exe
?X: you need to set it in Head.U.
 for thisthing in \$dir/\$thing; do
  : just loop through to pick last item
 done
 if test -f \$thisthing; then
  echo \$thisthing
  exit 0
 elif test "X$_exe" != X -a -f \$thisthing$_exe; then
  echo \$thisthing
  exit 0
 elif test -f \$dir/\$thing.exe; then
  if test -n "$DJGPP"; then
   echo \$dir/\$thing.exe
  elif test "$eunicefix" != ":"; then
   : on Eunice apparently
   echo \$dir/\$thing
  fi
  exit 0
 fi
 ;;
 esac
done
echo \$dflt
exit
 1
EOSC
chmod +x loc
$eunicefix loc
loclist="
?awk:awk
?cat:cat
?chgrp:chgrp
?chmod:chmod
?chown:chown
?comm:comm
?cp:cp
?echo:echo
?expr:expr
?find:find
?grep:grep
?ls:ls
?mkdir:mkdir
?mv:mv
?rm:rm
?sed:sed
```

```
?sleep:sleep
?sort:sort
?tail:tail
?touch:touch
?tr:tr
?uniq:uniq
"
trylist="
?Mcc:Mcc
?ar:ar
?bash:bash
?bison:bison
?byacc:byacc
?compress:compress
?cpio:cpio
?cpp:cpp
?csh:csh
?date:date
?egrep:egrep
?emacs:emacs
?flex:flex
?gmake:gmake
?gzip:gzip
?inews:inews
?ksh:ksh
?less:less
?line:line
?lint:lint
?ln:ln
?lp:lp
?lpr:lpr
?mail:mail
?mailx:mailx
?make:make
?more:more
?nm:nm
?nroff:nroff
?perl:perl
?pg:pg
?pmake:pmake
?pr:pr
?rmail:rmail
?sendmail:sendmail
?shar:shar
?smail:smail
?submit:submit
?tar:tar
?tbl:tbl
```

```
?tee:tee
?test:test
?troff:troff
?uname:uname
?uuname:uuname
?vi:vi
?zcat:zcat
?zip:zip
"
?LINT:set awk ar bash bison byacc cat chgrp chmod chown \
 comm compress cp cpio cpp csh date echo emacs expr find flex \
 gmake gzip grep inews ksh line lint lp lpr ls mail mailx
 \
 mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \
 shar sleep smail sort submit tail tar tbl tee touch tr troff \
 uname uniq uuname vi zcat zip
pth=`echo $PATH | sed -e "s/$p_/ /g"`
pth="$pth $sysroot/lib $sysroot/usr/lib"
for file in $loclist; do
?X:
?X: Allow them to -Dmake=pmake on the command line for instance...
?X: If the file is not fully qualified, as in -Dmake=pmake, then we
?X: look the for the specified command (pmake here). If they say
?X: -Dmake=/sbin/make for instance, then we make sure the file
?X: exists, or we die...
?X:
 eval xxx=\$$file
 case "$xxx" in
 /*|?:[\\/]*)
  if test -f "$xxx"; then
   : ok
  else
   echo "WARNING: no $xxx -- ignoring your setting for $file." >&4
   xxx=`./loc $file $file $pth`
  fi
  ;;
 ") xxx=`./loc $file $file $pth`;;
 *) xxx=`./loc $xxx $xxx $pth`;;
 esac
 eval $file=$xxx$_exe
 eval _$file=$xxx
 case "$xxx" in
 /*)
  echo $file is in $xxx.
  ;;
?X: Under OS/2, we have PC-like paths
 ?:[\\/]*)
  echo $file is in $xxx.
```

```
  ;;
 *)
  echo
 "I don't know where '$file' is, and my life depends on it." >&4
  echo "Go find a public domain implementation or fix your PATH setting!" >&4
  exit 1
  ;;
 esac
done
echo " "
echo "Don't worry if any of the following aren't found..."
say=offhand
for file in $trylist; do
?X: Allow them to -Dmake=pmake on the command line for instance (see above)
 eval xxx=\$$file
 case "$xxx" in
 /*|?:[\\/]*)
  if test -f "$xxx"; then
   : ok
  else
   echo "WARNING: no $xxx -- ignoring your setting for $file." >&4
   xxx=`./loc $file $file $pth`
  fi
  ;;
 ") xxx=`./loc $file $file $pth`;;
 *) xxx=`./loc $xxx $xxx $pth`;;
 esac
 eval $file=$xxx$_exe
 eval _$file=$xxx
 case "$xxx" in
 /*)
  echo $file is in $xxx.
  ;;
?X: Under OS/2, we have PC-like paths
 ?:[\\/]*)
  echo $file is in $xxx.
  ;;
 *)
  echo "I don't see $file out there, $say."
  say=either
  ;;
 esac
done
case "$egrep" in
egrep)
 echo "Substituting grep for egrep."
 egrep=$grep
 _egrep=$grep
```

```
 ;;
esac
@if less
case "$less"
 in
") ;;
*) if $less -R </dev/null >/dev/null 2>&1; then
        echo "Substituting less -R for less."
        less="$less -R"
        _less=$less
 fi
 ;;
esac
@end
@if ln
case "$ln" in
ln)
 echo "Substituting cp for ln."
 ln=$cp
 _ln=$cp
 ;;
esac
@end
@if make || gmake
case "$make" in
make)
 case "$gmake" in
 gmake)
 echo "I can't find make or gmake, and my life depends on it." >&4
 echo "Go find a public domain implementation or fix your PATH setting!" >&4
 exit 1
 ;;
 esac
 ;;
esac
case "$gmake" in
gmake) ;;
*) # We can't have osname yet.
 if test -f "/system/gnu_library/bin/ar.pm"; then # Stratus VOS
  # Assume that gmake, if found, is definitely GNU make
  # and prefer it over the system make.
  echo "Substituting gmake for make."
  make=$gmake
  _make=$gmake
 fi
 ;;
esac
@end
```

```
case "$test" in
test)
 echo "Hopefully test is built into your sh."
 ;;
*)
 if `sh -c "PATH= test true" >/dev/null 2>&1`; then
  echo "Using the test built into your sh."
?X:
?X: We need to set both test
 and _test, since Oldconfig.U will use the _test
?X: value to systematically restore computed paths, which may be wrong if
?X: we choose to load an old config.sh generated on another platform.
?X:
  test=test
  _test=test
 fi
 ;;
esac
?LINT:change n c
case "$echo" in
echo)
 echo "Hopefully echo is built into your sh."
 ;;
?X: For those rare cases where we don't need $echo...
") ;;
*)
 echo " "
echo "Checking compatibility between $echo and builtin echo (if any)..." >&4
 $echo $n "hi there$c" >foo1
 echo $n "hi there$c" >foo2
 if cmp foo1 foo2 >/dev/null 2>&1; then
  echo "They are compatible.  In fact, they may be identical."
 else
  case "$n" in
  '-n') n=" c='\c';;
  *) n='-n' c=";;
  esac
  cat <<FOO
They are not compatible!  You are probably running ksh on a non-USG system.
I'll have to use $echo instead of the builtin, since Bourne shell doesn't
have echo built in and we may have to run some Bourne shell scripts.  That
means I'll have to use '$n$c' to suppress newlines now.
  Life is ridiculous.

FOO
  $echo $n "The star should be here-->$c"
  $echo "*"
 fi
```

```
 $rm -f foo1 foo2
 ;;
esac

?X: The next part is irrelevant to the real process
# This question was auctioned at YAPC::Europe-2007 in Vienna
# I never promised you could answer it. I only auctioned the question.
cat <<FOO
The following message is sponsored by

 Dresden.pm<--The stars should be here.

Dear Perl user, system administrator or package
maintainer, the Perl community sends greetings to
you. Do you (emblematical) greet back [Y/n]? n

FOO
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Loc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_psignal.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_psignal.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:49  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_psignal: Inlibc
?MAKE: -pick add $@ %<
?S:d_psignal:
?S: This variable conditionally defines the HAS_PSIGNAL symbol, which
?S: indicates that the psignal() routine exists.  The psignal() routine
?S: prints a description of a signal on the standard error output.
?S:.
?C:HAS_PSIGNAL (PSIGNAL):
?C: This symbol, if defined, indicates
 that the psignal() routine exists.
?C:.
```

```
?H:#$d_psignal HAS_PSIGNAL  /**/
?H:.
?LINT:set d_psignal
: see if psignal exists
set psignal d_psignal
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_psignal.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_cuserid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_cuserid.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:25  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_cuserid: Inlibc
?MAKE: -pick add $@ %<
?S:d_cuserid:
?S: This variable conditionally defines the HAS_CUSERID symbol, which
?S: indicates to the C program that the cuserid() routine is available
?S: to get character login names.
?S:.
?C:HAS_CUSERID :
?C: This symbol,
 if defined, indicates that the cuserid routine is
?C: available to get character login names.
?C:.
?H:#$d_cuserid HAS_CUSERID  /**/
?H:.
?LINT:set d_cuserid
: see if cuserid exists
set cuserid d_cuserid
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_cuserid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isless: cat Compile rm_try Setvar
?MAKE: -pick add $@ %<
?S:d_isless:
?S: This variable conditionally defines the HAS_ISLESS symbol, which
?S: indicates to the C program that the isless() routine is available.
?S:.
?C:HAS_ISLESS:
?C: This symbol, if defined, indicates that the isless routine is
?C: available to do the isless function.
?C:.
?H:#$d_isless HAS_ISLESS  /**/
?H:.
?LINT:set d_isless
: check for isless
echo "Checking to see if you have isless..." >&4
$cat >try.c <<EOCP
#include <math.h>
int main() { return isless(2.0, 1.0); }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have isless."
else
 val="$undef"
 echo "You do not have isless."
fi
$rm_try
set d_isless
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_isless.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strftime.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:36  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strftime: Inlibc
?MAKE: -pick add $@ %<
?S:d_strftime:
?S: This variable conditionally defines HAS_STRFTIME if strftime() is
?S: available to format locale-specific times.
?S:.
?C:HAS_STRFTIME:
?C: This symbol, if defined, indicates that the strftime routine is
?C: available to format locale-specific times.
?C:.
?H:#$d_strftime HAS_STRFTIME /**/
?H:.
?LINT:set d_strftime
: see
 if strftime exists
set strftime d_strftime
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strftime.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Obsol_sh.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Obsol_sh.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:11  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file is prepended to .MT/Obsol_sh if that file is not empty. That file
```

```
?X: contains the necessary mappings of new symbols to obsolete ones.
?X:
?MAKE:Obsol_sh:
?MAKE: -pick prepend $@ ./Obsol_sh
?LINT:nocomment
#
# The following symbols are obsolete. They are mapped to the new
# symbols only to ease the transition process. The
 sources should be
# updated so as to use the new symbols only, since supporting of those
# obsolete symbols may end without notice.
#
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Obsol_sh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: package.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: package.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:27:21  ram
?RCS: patch36: beware of non-ascii character sets when translating case
?RCS:
?RCS: Revision 3.0.1.2  1993/11/10  17:37:02  ram
?RCS: patch14: skip definition of spackage if not otherwise used
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:11:10  ram
?RCS: patch10: added spackage, suitable for starting sentences
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:28  ram
?RCS: Baseline for dist 3.0
 netwide release.
?RCS:
?MAKE:package spackage: Nothing
?MAKE: -pick wipe $@ %<
?S:package:
?S: This variable contains the name of the package being constructed.
?S: It is primarily intended for the use of later Configure units.
?S:.
```

```
?S:spackage:
?S: This variable contains the name of the package being constructed,
?S: with the first letter uppercased, i.e. suitable for starting
?S: sentences.
?S:.
?X: dist-4 has defined PACKAGE: here, which clashes with perly.h
?X:  as package is a reserved keyword in perl
?T:first last
: set package name
package='<PACKAGENAME>'
@if spackage
first=`echo $package | sed -e 's/^\(.\).*/\1/'`
last=`echo $package | sed -e 's/^.\(.*\)/\1/'`
?X:
?X: So early in the Configure script, we don't have ./tr set up and can't
?X: include Tr in our dependency or that would create a cycle. Therefore,
?X: we have to somehow duplicate the work done in Tr. That's life.
?X:
case "`echo AbyZ | tr '[:lower:]' '[:upper:]' 2>/dev/null`"-"`echo AbyZ | tr '[:upper:]' '[:lower:]'
 2>/dev/null`" in
ABYZ-abyz) spackage=`echo $first | tr '[:lower:]' '[:upper:]'`$last;;
*) spackage=`echo $first | tr '[a-z]' '[A-Z]'`$last;;
esac
@end
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/package.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: fpostype.U,v 3.0.1.2 1994/08/29 16:20:52 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: fpostype.U,v $
?RCS: Revision 3.0.1.2  1994/08/29  16:20:52  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:59:59  ram
?RCS: patch30: created
?RCS:
?MAKE:fpostype: Myread Typedef
```

```
?MAKE: -pick add $@ %<
?S:fpostype:
?S: This variable defines Fpos_t to be something like fpos_t, long,
?S: uint, or whatever type is used to declare file positions in libc.
?S:.
?C:Fpos_t:
?C: This symbol holds
 the type used to declare file positions in libc.
?C: It can be fpos_t, long, uint, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Fpos_t $fpostype  /* File position type */
?H:.
?LINT:set fpostype
: see what type file positions are declared as in the library
rp="What is the type for file position used by fsetpos()?"
set fpos_t fpostype long stdio.h sys/types.h
eval $typedef_ask
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/fpostype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: ssizetype.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:24:21  ram
?RCS: patch61: integrated perl5 concerns for mis-configured sfio
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:30:28  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:33:06  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:ssizetype: Myread Typedef
```

```
 sizetype cat rm \
 +cc +optimize +ccflags +ldflags +libs _o
?MAKE: -pick add $@ %<
?S:ssizetype:
?S: This variable defines ssizetype to be something like ssize_t,
?S: long or int.  It is used by functions that return a count
?S: of bytes or an error condition.  It must be a signed type.
?S: We will pick a type such that sizeof(SSize_t) == sizeof(Size_t).
?S:.
?C:SSize_t:
?C: This symbol holds the type used by functions that return
?C: a count of bytes or an error condition.  It must be a signed type.
?C: It is usually ssize_t, but may be long or int, etc.
?C: It may be necessary to include <sys/types.h> or <unistd.h>
?C: to get any typedef'ed information.
?C: We will pick a type such that sizeof(SSize_t) == sizeof(Size_t).
?C:.
?H:#define SSize_t $ssizetype  /* signed count of bytes */
?H:.
?F:!ssize.out !ssize
: see what type is used for signed size_t
set ssize_t ssizetype int stdio.h sys/types.h
eval $typedef
dflt="$ssizetype"
?X: Now check out whether sizeof(SSize_t) == sizeof(Size_t)
$cat
 > ssize.c <<EOM
#include <stdio.h>
#include <sys/types.h>
#define Size_t $sizetype
#define SSize_t $dflt
int main()
{
 if (sizeof(Size_t) == sizeof(SSize_t))
  printf("$dflt\n");
 else if (sizeof(Size_t) == sizeof(int))
  printf("int\n");
 else
  printf("long\n");
 fflush(stdout);
 exit(0);
}
EOM
echo " "
?X: If $libs contains -lsfio, and sfio is mis-configured, then it
?X: sometimes (apparently) runs and exits with a 0 status, but with no
?X: output!.  Thus we check with test -s whether we actually got any
?X: output.  I think it has to do with sfio's use of _exit vs. exit,
```

```
?X: but I don't know for sure.  --Andy Dougherty  1/27/97.
if $cc $optimize $ccflags $ldflags -o ssize ssize.c $libs > /dev/null 2>&1  &&
  ./ssize > ssize.out 2>/dev/null && test -s ssize.out ; then
 ssizetype=`$cat ssize.out`
 echo "I'll be using $ssizetype for functions returning a byte count." >&4
else
 $cat >&4 <<EOM
Help! I can't compile and run the ssize_t test program: please enlighten me!
(This
 is probably a misconfiguration in your system or libraries, and
you really ought to fix it.  Still, I'll try anyway.)

I need a type that is the same size as $sizetype, but is guaranteed to
be signed.  Common values are ssize_t, int and long.

EOM
 rp="What signed type is the same size as $sizetype?"
 . ./myread
 ssizetype="$ans"
fi
$rm -f ssize ssize$_o ssize.*
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/ssizetype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_umask.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_umask.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:14:50  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_umask: Inlibc
?MAKE: -pick add $@ %<
?S:d_umask:
?S: This variable conditionally defines the HAS_UMASK symbol, which
?S: indicates to the C program that the umask() routine is available.
```

```
?S: to set and get the value of the file creation mask.
?S:.
?C:HAS_UMASK :
?C: This
 symbol, if defined, indicates that the umask routine is
?C: available to set and get the value of the file creation mask.
?C:.
?H:#$d_umask HAS_UMASK  /**/
?H:.
?LINT:set d_umask
: see if umask exists
set umask d_umask
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_umask.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rename.C,v 3.0.1.1 1994/01/24 13:58:42 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* $Log: rename.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:42  ram
* patch16: created
*
*/
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/lib/C/fake/rename.C
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999-2016 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
```

```
?MAKE:d_PRIfldbl sPRIfldbl d_PRIgldbl d_PRIFUldbl sPRIGUldbl d_PRIEUldbl \
 sPRIgldbl d_PRIeldbl sPRIeldbl sPRIFUldbl d_PRIGUldbl sPRIEUldbl \
 d_SCNfldbl  d_double_style_vax d_double_style_ieee \
 d_double_style_ibm d_double_style_cray d_double_has_subnormals \
 d_double_has_inf d_double_has_nan d_double_has_negative_zero \
 sSCNfldbl doublekind: \
 d_longdbl longdblsize doublesize uselongdouble test echo cat rm_try \
 Setvar Compile run i_stdlib osname gccversion ccflags
?MAKE: -pick add $@ %<
?S:doublekind:
?S: This variable, if defined, encodes the type of a double:
?S:  1 = IEEE 754 32-bit little endian,
?S:  2 = IEEE 754 32-bit big endian,
?S:  3 = IEEE 754 64-bit little endian,
?S:  4 = IEEE
 754 64-bit big endian,
?S:  5 = IEEE 754 128-bit little endian,
?S:  6 = IEEE 754 128-bit big endian,
?S:  7 = IEEE 754 64-bit mixed endian le-be,
?S:  8 = IEEE 754 64-bit mixed endian be-le,
?S:  9 = VAX 32bit little endian F float format
?S: 10 = VAX 64bit little endian D float format
?S: 11 = VAX 64bit little endian G float format
?S: 12 = IBM 32bit format
?S: 13 = IBM 64bit format
?S: 14 = Cray 64bit format
?S: -1 = unknown format.
?S:.
?S:d_PRIfldbl:
?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates that stdio has a symbol to print long doubles.
?S:.
?S:d_PRIgldbl:
?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates that stdio has a symbol to print long doubles.
?S:.
?S:d_PRIeldbl:
?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates that stdio has a symbol to print long doubles.
?S:.
?S:d_PRIFUldbl:
?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates
 that stdio has a symbol to print long doubles.
?S: The 'U' in the name is to separate this from d_PRIfldbl so that even
?S: case-blind systems can see the difference.
?S:.
?S:d_PRIGUldbl:
```

?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates that stdio has a symbol to print long doubles.
?S: The 'U' in the name is to separate this from d_PRIgldbl so that even
?S: case-blind systems can see the difference.
?S:.
?S:d_PRIEUldbl:
?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates that stdio has a symbol to print long doubles.
?S: The 'U' in the name is to separate this from d_PRIeldbl so that even
?S: case-blind systems can see the difference.
?S:.
?S:d_SCNfldbl:
?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates that stdio has a symbol to scan long doubles.
?S:.
?S:sPRIfldbl:
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'f') for
 output.
?S:.
?S:sPRIgldbl:
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'g') for output.
?S:.
?S:sPRIeldbl:
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'e') for output.
?S:.
?S:sPRIFUldbl:
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'F') for output.
?S: The 'U' in the name is to separate this from sPRIfldbl so that even
?S: case-blind systems can see the difference.
?S:.
?S:sPRIGUldbl:
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'G') for output.
?S: The 'U' in the name is to separate this from sPRIgldbl so that even
?S: case-blind systems can see the difference.
?S:.
?S:sPRIEUldbl:
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'E') for output.
?S: The 'U' in the name is to separate this from sPRIeldbl so that even
?S: case-blind
 systems can see the difference.
?S:.
?S:sSCNfldbl:

```
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'f') for input.
?S:.
?S:d_double_has_inf:
?S: This variable conditionally defines the symbol DOUBLE_HAS_INF
?S: which indicates that the double type has an infinity.
?S:.
?S:d_double_has_nan:
?S: This variable conditionally defines the symbol DOUBLE_HAS_NAN
?S: which indicates that the double type has a not-a-number.
?S:.
?S:d_double_has_negative_zero:
?S: This variable conditionally defines the symbol DOUBLE_HAS_NEGATIVE_ZERO
?S: which indicates that the double type has a negative zero.
?S:.
?S:d_double_has_subnormals:
?S: This variable conditionally defines the symbol DOUBLE_HAS_SUBNORMALS
?S: which indicates that the double type has subnormals (denormals).
?S:.
?S:d_double_style_cray:
?S: This variable conditionally defines the symbol DOUBLE_STYLE_CRAY
?S: which indicates that the double is the 64-bit CRAY mainframe
 format.
?S:.
?S:d_double_style_ibm:
?S: This variable conditionally defines the symbol DOUBLE_STYLE_IBM,
?S: which indicates that the double is the 64-bit IBM mainframe format.
?S:.
?S:d_double_style_ieee:
?S: This variable conditionally defines the symbol DOUBLE_STYLE_IEEE,
?S: which indicates that the double is the 64-bit IEEE 754.
?S:.
?S:d_double_style_vax:
?S: This variable conditionally defines the symbol DOUBLE_STYLE_VAX,
?S: which indicates that the double is the 64-bit VAX format D or G.
?S:.
?C:PERL_PRIfldbl:
?C: This symbol, if defined, contains the string used by stdio to
?C: format long doubles (format 'f') for output.
?C:.
?C:PERL_PRIgldbl:
?C: This symbol, if defined, contains the string used by stdio to
?C: format long doubles (format 'g') for output.
?C:.
?C:PERL_PRIeldbl:
?C: This symbol, if defined, contains the string used by stdio to
?C: format long doubles (format 'e') for output.
?C:.
```

```
?C:PERL_PRIFldbl:
?C: This symbol, if defined, contains the string used by stdio
 to
?C: format long doubles (format 'f') for output.
?C:.
?C:PERL_PRIGldbl:
?C: This symbol, if defined, contains the string used by stdio to
?C: format long doubles (format 'g') for output.
?C:.
?C:PERL_PRIEldbl:
?C: This symbol, if defined, contains the string used by stdio to
?C: format long doubles (format 'e') for output.
?C:.
?C:PERL_SCNfldbl:
?C: This symbol, if defined, contains the string used by stdio to
?C: format long doubles (format 'f') for input.
?C:.
?C:DOUBLEKIND:
?C: DOUBLEKIND will be one of
?C: DOUBLE_IS_IEEE_754_32_BIT_LITTLE_ENDIAN
?C: DOUBLE_IS_IEEE_754_32_BIT_BIG_ENDIAN
?C: DOUBLE_IS_IEEE_754_64_BIT_LITTLE_ENDIAN
?C: DOUBLE_IS_IEEE_754_64_BIT_BIG_ENDIAN
?C: DOUBLE_IS_IEEE_754_128_BIT_LITTLE_ENDIAN
?C: DOUBLE_IS_IEEE_754_128_BIT_BIG_ENDIAN
?C: DOUBLE_IS_IEEE_754_64_BIT_MIXED_ENDIAN_LE_BE
?C: DOUBLE_IS_IEEE_754_64_BIT_MIXED_ENDIAN_BE_LE
?C: DOUBLE_IS_VAX_F_FLOAT
?C: DOUBLE_IS_VAX_D_FLOAT
?C: DOUBLE_IS_VAX_G_FLOAT
?C: DOUBLE_IS_IBM_SINGLE_32_BIT
?C: DOUBLE_IS_IBM_DOUBLE_64_BIT
?C: DOUBLE_IS_CRAY_SINGLE_64_BIT
?C: DOUBLE_IS_UNKNOWN_FORMAT
?C:.
?C:DOUBLE_HAS_INF:
?C: This
 symbol, if defined, indicates that the double has
?C: the infinity.
?C:.
?C:DOUBLE_HAS_NAN:
?C: This symbol, if defined, indicates that the double has
?C: the not-a-number.
?C:.
?C:DOUBLE_HAS_NEGATIVE_ZERO:
?C: This symbol, if defined, indicates that the double has
?C: the negative_zero.
?C:.
```

```
?C:DOUBLE_HAS_SUBNORMALS:
?C: This symbol, if defined, indicates that the double has
?C: the subnormals (denormals).
?C:.
?C:DOUBLE_STYLE_CRAY:
?C: This symbol, if defined, indicates that the double is
?C: the 64-bit CRAY mainframe format.
?C:.
?C:DOUBLE_STYLE_IBM:
?C: This symbol, if defined, indicates that the double is
?C: the 64-bit IBM mainframe format.
?C:.
?C:DOUBLE_STYLE_IEEE:
?C: This symbol, if defined, indicates that the double is
?C: the 64-bit IEEE 754.
?C:.
?C:DOUBLE_STYLE_VAX:
?C: This symbol, if defined, indicates that the double is
?C: the 64-bit VAX format D or G.
?C:.
?LINT:known
 DOUBLE_IS_IEEE_754_32_BIT_LITTLE_ENDIAN
?LINT:known DOUBLE_IS_IEEE_754_32_BIT_BIG_ENDIAN
?LINT:known DOUBLE_IS_IEEE_754_64_BIT_LITTLE_ENDIAN
?LINT:known DOUBLE_IS_IEEE_754_64_BIT_BIG_ENDIAN
?LINT:known DOUBLE_IS_IEEE_754_128_BIT_LITTLE_ENDIAN
?LINT:known DOUBLE_IS_IEEE_754_128_BIT_BIG_ENDIAN
?LINT:known DOUBLE_IS_IEEE_754_64_BIT_MIXED_ENDIAN_LE_BE
?LINT:known DOUBLE_IS_IEEE_754_64_BIT_MIXED_ENDIAN_BE_LE
?LINT:known DOUBLE_IS_VAX_F_FLOAT
?LINT:known DOUBLE_IS_VAX_D_FLOAT
?LINT:known DOUBLE_IS_VAX_G_FLOAT
?LINT:known DOUBLE_IS_IBM_SINGLE_32_BIT
?LINT:known DOUBLE_IS_IBM_DOUBLE_64_BIT
?LINT:known DOUBLE_IS_CRAY_SINGLE_64_BIT
?LINT:known DOUBLE_IS_UNKNOWN_FORMAT
?H:#define DOUBLEKIND $doublekind  /**/
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_32_BIT_LITTLE_ENDIAN 1
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_32_BIT_BIG_ENDIAN 2
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_64_BIT_LITTLE_ENDIAN 3
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_64_BIT_BIG_ENDIAN 4
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_128_BIT_LITTLE_ENDIAN 5
?H:?DOUBLEKIND:#define
 DOUBLE_IS_IEEE_754_128_BIT_BIG_ENDIAN 6
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_64_BIT_MIXED_ENDIAN_LE_BE 7
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_64_BIT_MIXED_ENDIAN_BE_LE 8
?H:?DOUBLEKIND:#define DOUBLE_IS_VAX_F_FLOAT 9
?H:?DOUBLEKIND:#define DOUBLE_IS_VAX_D_FLOAT 10
```

```
?H:?DOUBLEKIND:#define DOUBLE_IS_VAX_G_FLOAT 11
?H:?DOUBLEKIND:#define DOUBLE_IS_IBM_SINGLE_32_BIT 12
?H:?DOUBLEKIND:#define DOUBLE_IS_IBM_DOUBLE_64_BIT 13
?H:?DOUBLEKIND:#define DOUBLE_IS_CRAY_SINGLE_64_BIT 14
?H:?DOUBLEKIND:#define DOUBLE_IS_UNKNOWN_FORMAT  -1
?H:#$d_PRIfldbl PERL_PRIfldbl $sPRIfldbl /**/
?H:#$d_PRIgldbl PERL_PRIgldbl $sPRIgldbl /**/
?H:#$d_PRIeldbl PERL_PRIeldbl $sPRIeldbl /**/
?H:#$d_PRIFUldbl PERL_PRIFldbl $sPRIFUldbl /**/
?H:#$d_PRIGUldbl PERL_PRIGldbl $sPRIGUldbl /**/
?H:#$d_PRIEUldbl PERL_PRIEldbl $sPRIEUldbl /**/
?H:#$d_SCNfldbl PERL_SCNfldbl $sSCNfldbl /**/
?H:#$d_double_has_inf DOUBLE_HAS_INF
?H:#$d_double_has_nan DOUBLE_HAS_NAN
?H:#$d_double_has_negative_zero
 DOUBLE_HAS_NEGATIVE_ZERO
?H:#$d_double_has_subnormals DOUBLE_HAS_SUBNORMALS
?H:#$d_double_style_cray DOUBLE_STYLE_CRAY
?H:#$d_double_style_ibm DOUBLE_STYLE_IBM
?H:#$d_double_style_ieee DOUBLE_STYLE_IEEE
?H:#$d_double_style_vax DOUBLE_STYLE_VAX
?H:.
?T:yyy message saveccflags
?F:!try
?LINT:change ccflags
?LINT:change uselongdouble
: Check what kind of doubles your system has
$echo "Checking the kind of doubles you have..." >&4
$cat >try.c <<EOP
#$i_stdlib I_STDLIB
#define DOUBLESIZE $doublesize
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <stdio.h>
static const double d = -0.1;
int main() {
 unsigned const char* b = (unsigned const char*)(&d);
#if DOUBLESIZE == 4
 if (b[0] == 0xCD && b[3] == 0xBD) {
   /* IEEE 754 32-bit little-endian */
   printf("1\n");
   exit(0);
 }
 if (b[0] == 0xBD && b[3] == 0xCD) {
   /* IEEE 754 32-bit big-endian */
   printf("2\n");
   exit(0);
```

```
 }
 if (b[0] == 0xCC && b[3] == 0xCC) {
   /* VAX format F, 32-bit
 PDP-style mixed endian. */
   printf("9\n");
   exit(0);
 }
 if (b[0] == 0xC0 && b[3] == 0x9A) {
   /* IBM single 32-bit */
   printf("12\n");
   exit(0);
 }
#endif
#if DOUBLESIZE == 8
 if (b[0] == 0x9A && b[7] == 0xBF) {
   /* IEEE 754 64-bit little-endian */
   printf("3\n");
   exit(0);
 }
 if (b[0] == 0xBF && b[7] == 0x9A) {
   /* IEEE 754 64-bit big-endian */
   printf("4\n");
   exit(0);
 }
 if (b[0] == 0x99 && b[3] == 0xBF && b[4] == 0x9A && b[7] == 0x99) {
  /* ARM mixed endian: two little-endian 32-bit floats, in big endian order:
   * 4 5 6 7 0 1 2 3 (MSB = 7, LSB = 0)
   * 99 99 b9 bf 9a 99 99 99 */
   printf("7\n");
   exit(0);
 }
 if (b[0] == 0x99 && b[3] == 0x9A && b[4] == 0xBF && b[7] == 0x99) {
  /* The opposite of case 7, mixed endian: two big-endian 32-bit floats,
   * in little endian order: 3 2 1 0 7 6 5 4 (MSB = 7, LSB = 0)
   * 99 99 99 9a bf b9 99 99 */
   printf("8\n");
   exit(0);
 }
 if (b[0] == 0xCC && b[7] == 0xCC) {
  /* VAX
 format D, 64-bit PDP-style mixed endian. */
   printf("10\n");
   exit(0);
 }
 if (b[0] == 0xD9 && b[7] == 0x99) {
  /* VAX format G, 64-bit PDP-style mixed endian. */
   printf("11\n");
   exit(0);
```

```
 }
 if (b[0] == 0xC0 && b[7] == 0x9A) {
   /* IBM double 64-bit */
   printf("13\n");
   exit(0);
 }
 if (b[0] == 0xBF && b[7] == 0xCD) {
   /* CRAY single 64-bit */
   printf("14\n");
   exit(0);
 }
#endif
#if DOUBLESIZE == 16
 if (b[0] == 0x9A && b[15] == 0xBF) {
   /* IEEE 754 128-bit little-endian */
   printf("5\n");
   exit(0);
 }
 if (b[0] == 0xBF && b[15] == 0x9A) {
   /* IEEE 754 128-bit big-endian */
   printf("6\n");
   exit(0);
 }
#endif
 /* Then there are old mainframe/miniframe formats like IBM and CRAY.
  * Whether those environments can still build Perl is debatable. */
 printf("-1\n"); /* unknown */
 exit(0);
}
EOP
set try
if eval $compile; then
   doublekind=`$run ./try`
else
   doublekind=-1
fi
case "$doublekind" in
1) echo "You have IEEE
 754 32-bit little endian doubles." >&4 ;;
2) echo "You have IEEE 754 32-bit big endian doubles." >&4 ;;
3) echo "You have IEEE 754 64-bit little endian doubles." >&4 ;;
4) echo "You have IEEE 754 64-bit big endian doubles." >&4 ;;
5) echo "You have IEEE 754 128-bit little endian doubles." >&4 ;;
6) echo "You have IEEE 754 128-bit big endian doubles." >&4 ;;
7) echo "You have IEEE 754 64-bit mixed endian doubles (32-bit LEs in BE)." >&4 ;;
8) echo "You have IEEE 754 64-bit mixed endian doubles (32-bit BEs in LE)." >&4 ;;
9) echo "You have VAX format F 32-bit PDP-style mixed endian doubles." >&4 ;;
10) echo "You have VAX format D 64-bit PDP-style mixed endian doubles." >&4 ;;
```

```
11) echo "You have VAX format G 64-bit PDP-style mixed endian doubles." >&4 ;;
12) echo "You have IBM short 32-bit doubles." >&4 ;;
13) echo "You have IBM long 64-bit doubles." >&4 ;;
14) echo "You have Cray single 64-bit doubles." >&4 ;;
*) echo "Cannot figure out your double.  You Cyber, or something?" >&4 ;;
esac
d_double_style_ieee=$undef
d_double_style_vax=$undef
d_double_style_ibm=$undef
d_double_style_cray=$undef
case
 "$doublekind" in
1|2|3|4|5|6|7|8) d_double_style_ieee=$define ;;
9|10|11) d_double_style_vax=$define ;;
12|13) d_double_style_ibm=$define ;;
14) d_double_style_cray=$define ;;
esac
case "$d_double_style_ieee" in
$define)
   d_double_has_inf=$define
   d_double_has_nan=$define
   d_double_has_negative_zero=$define
   d_double_has_subnormals=$define
   ;;
*)
   d_double_has_inf=$undef
   d_double_has_nan=$undef
   d_double_has_negative_zero=$undef
   d_double_has_subnormals=$undef
   ;;
esac
$rm_try

: Check print/scan long double stuff
echo " "

if $test X"$d_longdbl" = X"$define"; then

echo "Checking how to print long doubles..." >&4

if $test X"$sPRIfldbl" = X -a X"$doublesize" = X"$longdblsize"; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
 double d = 123.456;
 printf("%.3f\n", d);
}
```

```
EOCP
 set try
 if eval $compile; then
  yyy=`$run
 ./try`
  case "$yyy" in
  123.456)
   sPRIfldbl='"f"'; sPRIgldbl='"g"'; sPRIeldbl='"e"';
   sPRIFUldbl='"F"'; sPRIGUldbl='"G"'; sPRIEUldbl='"E"';
   echo "We will use %f."
   ;;
  esac
 fi
fi

if $test X"$sPRIfldbl" = X; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
 long double d = 123.456;
 printf("%.3Lf\n", d);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  123.456)
   sPRIfldbl='"Lf"'; sPRIgldbl='"Lg"'; sPRIeldbl='"Le"';
   sPRIFUldbl='"LF"'; sPRIGUldbl='"LG"'; sPRIEUldbl='"LE"';
   echo "We will use %Lf."
   ;;
  esac
 fi
fi

if $test X"$sPRIfldbl" = X; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
 long double d = 123.456;
 printf("%.3llf\n", d);
}
EOCP
 set try
 if eval $compile; then
```

```
  yyy=`$run ./try`
  case "$yyy" in
  123.456)
   sPRIfldbl='"llf"'; sPRIgldbl='"llg"'; sPRIeldbl='"lle"';
   sPRIFUldbl='"llF"'; sPRIGUldbl='"llG"'; sPRIEUldbl='"llE"';
   echo "We
 will use %llf."
   ;;
  esac
 fi
fi

if $test X"$sPRIfldbl" = X; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
 long double d = 123.456;
 printf("%.3lf\n", d);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  123.456)
   sPRIfldbl='"lf"'; sPRIgldbl='"lg"'; sPRIeldbl='"le"';
   sPRIFUldbl='"lF"'; sPRIGUldbl='"lG"'; sPRIEUldbl='"lE"';
   echo "We will use %lf."
   ;;
  esac
 fi
fi

if $test X"$sPRIfldbl" = X; then
 echo "Cannot figure out how to print long doubles." >&4
else
 sSCNfldbl=$sPRIfldbl # expect consistency
fi

$rm_try

fi # d_longdbl

case "$sPRIfldbl" in
") d_PRIfldbl="$undef"; d_PRIgldbl="$undef"; d_PRIeldbl="$undef";
 d_PRIFUldbl="$undef"; d_PRIGUldbl="$undef"; d_PRIEUldbl="$undef";
 d_SCNfldbl="$undef";
```

```
 ;;
*) d_PRIfldbl="$define"; d_PRIgldbl="$define"; d_PRIeldbl="$define";
 d_PRIFUldbl="$define"; d_PRIGUldbl="$define"; d_PRIEUldbl="$define";
 d_SCNfldbl="$define";
 ;;
esac

: Before committing on uselongdouble,
 see whether that looks sane.
if $test "$uselongdouble" = "$define"; then
   message=""
   echo " "
   echo "Checking if your long double math functions work right..." >&4
   $cat > try.c <<EOF
#include <math.h>
#include <stdio.h>
int main() {
 printf("%"$sPRIgldbl"\n", sqrtl(logl(expl(cosl(sinl(0.0L))))+powl(2.0L, 3.0L)));
}
EOF
   case "$osname:$gccversion" in
   aix:) saveccflags="$ccflags"
  ccflags="$ccflags -qlongdouble" ;; # to avoid core dump
   esac
   set try
   if eval $compile_ok; then
     yyy=`$run ./try`
   fi
   case "$yyy" in
   3) echo "Your long double math functions are working correctly." >&4 ;;
   *) echo "Your long double math functions are broken, not using long doubles." >&4
      uselongdouble=$undef
      ;;
   esac
   $rm_try
   case "$osname:$gccversion" in
   aix:) ccflags="$saveccflags" ;; # restore
   esac
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/longdblfio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msg.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:37  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_msg: test d_msgctl d_msgget d_msgsnd d_msgrcv Setvar Findhdr osname
?MAKE: -pick add $@ %<
?S:d_msg:
?S: This variable conditionally defines the HAS_MSG symbol, which
?S: indicates that the entire msg*(2) library is present.
?S:.
?C:HAS_MSG:
?C: This symbol, if defined, indicates that the entire msg*(2) library is
?C: supported (IPC mechanism based on message queues).
?C:.
?H:#$d_msg
 HAS_MSG  /**/
?H:.
?T:h_msg
?LINT:set d_msg
: see how much of the 'msg*(2)' library is present.
h_msg=true
echo " "
case "$d_msgctl$d_msgget$d_msgsnd$d_msgrcv" in
*"$undef"*) h_msg=false;;
esac
case "$osname" in
freebsd)
   case "`ipcs 2>&1`" in
   "SVID messages"*"not configured"*)
 echo "Your $osname does not have the msg*(2) configured." >&4
       h_msg=false
 val="$undef"
 set msgctl d_msgctl
 eval $setvar
 set msgget d_msgget
 eval $setvar
 set msgsnd d_msgsnd
 eval $setvar
 set msgrcv d_msgrcv
 eval $setvar
 ;;
```

```
   esac
   ;;
esac
: we could also check for sys/ipc.h ...
if $h_msg && $test `./findhdr sys/msg.h`; then
 echo "You have the full msg*(2) library." >&4
 val="$define"
else
 echo "You don't have the full msg*(2) library." >&4
 val="$undef"
fi
set d_msg
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_msg.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libperl.U,v $
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:libperl useshrplib shrpenv ldlibpthname: \
 Myread Oldconfig archlibexp awk cat libc \
 _a osname osvers so patchlevel subversion usedl ld \
 ccdlflags installarchlib userelocatableinc
?MAKE: -pick wipe $@ %<
?S:libperl:
?S: The perl executable is obtained by linking perlmain.c with
?S: libperl, any static extensions (usually just DynaLoader),
?S: and any other libraries needed on this system.  libperl
?S: is usually libperl.a, but can also be libperl.so.xxx if
?S: the user wishes to build a perl executable with a shared
?S: library.
?S:.
?S:useshrplib:
?S: This variable is set to 'true' if the user wishes
?S: to build a shared libperl, and 'false' otherwise.
?S:.
?S:shrpenv:
?S: If
 the user builds a shared libperl.so, then we need to tell the
?S: 'perl' executable where it will be able to find the installed libperl.so.
?S: One way to do this on some systems is to set the environment variable
```

```
?S: LD_RUN_PATH to the directory that will be the final location of the
?S: shared libperl.so.  The makefile can use this with something like
?S:  $shrpenv $(CC) -o perl perlmain.o $libperl $libs
?S: Typical values are
?S:  shrpenv="env LD_RUN_PATH=$archlibexp/CORE"
?S: or
?S:  shrpenv=''
?S: See the main perl Makefile.SH for actual working usage.
?S:
?S: Alternatively, we might be able to use a command line option such
?S: as -R $archlibexp/CORE (Solaris) or -Wl,-rpath
?S: $archlibexp/CORE (Linux).
?S:.
?S:ldlibpthname:
?S: This variable holds the name of the shared library
?S: search path, often LD_LIBRARY_PATH.  To get an empty
?S: string, the hints file must set this to 'none'.
?S:.
?T:shrpdir majonly majmin also xxx tmp_shrpenv
?X: metalint gets confused and thinks we're
 actually setting LDOPTS
?X: and LD_RUN_PATH.
?LINT:extern LDOPTS
?LINT:change LDOPTS
?LINT:extern LD_RUN_PATH
?LINT:change LD_RUN_PATH
?LINT:change ccdlflags
?LINT:extern maintloc maintname
?Y:top
: Do we want a shared libperl?
also=''
case "$usedl" in
$undef)
 # No dynamic loading being used, so don't bother even to prompt.
 useshrplib='false'
 ;;
*) case "$useshrplib" in
 '') case "$osname" in
  svr4*|nonstopux|dgux|dynixptx|esix|powerux|haiku|cygwin*)
   dflt=y
   also='Building a shared libperl is required for dynamic loading to work on your system.'
   ;;
  *) dflt=n
   ;;
  esac
  ;;
 $define|true|[Yy]*)
  dflt=y
```

```
  ;;
 *) dflt=n
  ;;
 esac
 $cat << EOM

The perl executable is normally obtained by linking perlmain.c with
libperl${_a}, any static extensions (usually just DynaLoader), and
any other libraries needed on this system (such as -lm, etc.).  Since
your system supports dynamic loading, it is probably possible to build
a shared libperl.$so.  If you will have more than one
 executable linked
to libperl.$so, this will significantly reduce the size of each
executable, but it may have a noticeable effect on performance.  The
default is probably sensible for your system.
$also

EOM
 rp="Build a shared libperl.$so (y/n)"
 . ./myread
 case "$ans" in
 true|$define|[Yy]*)
  useshrplib='true'  ;;
 *) useshrplib='false' ;;
 esac
 ;;
esac

case "$useshrplib" in
true)
 case "$userelocatableinc" in
 true|define)
  echo "Cannot build with both -Duserelocatableinc and -Duseshrplib" >&4
  echo "See INSTALL for an explanation why that won't work." >&4
  exit 4
  ;;
 esac
 case "$libperl" in
 ")
  # Figure out a good name for libperl.so.  Since it gets stored in
  # a version-specific architecture-dependent library, the version
  # number isn't really that important, except for making cc/ld happy.
  #
  # A name such as libperl.so.10.1
  majmin="libperl.$so.$patchlevel.$subversion"
  # A name such as libperl.so.100
  majonly=`echo $patchlevel $subversion |
   $awk '{printf
```

```
"%d%02d", $1, $2}'`
 majonly=libperl.$so.$majonly
 # I'd prefer to keep the os-specific stuff here to a minimum, and
 # rely on figuring it out from the naming of libc.
 case "${osname}${osvers}" in
 *linux*|gnu*)  # ld won't link with a bare -lperl otherwise.
  dflt=libperl.$so
  ;;
 cygwin*) # ld links now against the dll directly
  majmin="cygperl5_${patchlevel}_${subversion}.${so}"
  majonly=`echo $patchlevel $subversion |
   $awk '{printf "%03d%03d", $1, $2}'`
  majonly=cygperl5.$majonly.$so
  dflt=$majmin
  ;;
 *) # Try to guess based on whether libc has major.minor.
  case "$libc" in
  *libc.$so.[0-9]*.[0-9]*) dflt=$majmin ;;
  *libc.$so.[0-9]*) dflt=$majonly ;;
  *) dflt=libperl.$so ;;
  esac
  ;;
 esac
 ;;
*) dflt=$libperl
 ;;
esac
cat << EOM

I need to select a good name for the shared libperl.  If your system uses
library names with major and minor numbers, then you might want something
like $majmin.  Alternatively, if your system uses a single
 version
number for shared libraries, then you might want to use $majonly.
Or, your system might be quite happy with a simple libperl.$so.

Since the shared libperl will get installed into a version-specific
architecture-dependent directory, the version number of the shared perl
library probably isn't important, so the default should be o.k.

EOM
 rp='What name do you want to give to the shared libperl?'
 . ./myread
 libperl=$ans
 echo "Ok, I'll use $libperl"
 ;;
*)
 libperl="libperl${_a}"
```

```
 ;;
esac

# Detect old use of shrpdir via undocumented Configure -Dshrpdir
case "$shrpdir" in
") ;;
*) $cat >&4 <<EOM
WARNING:  Use of the shrpdir variable for the installation location of
the shared $libperl is not supported.  It was never documented and
will not work in this version.  Let me (<$maintloc>)
know of any problems this may cause.

EOM
 case "$shrpdir" in
 "$archlibexp/CORE")
  $cat >&4 <<EOM
But your current setting of $shrpdir is
the default anyway, so it's harmless.
EOM
  ;;
 *)
  $cat
 >&4 <<EOM
Further, your current attempted setting of $shrpdir
conflicts with the value of $archlibexp/CORE
that installperl will use.
EOM
  ;;
 esac
 ;;
esac

# How will the perl executable find the installed shared $libperl?
# Add $xxx to ccdlflags.
# If we can't figure out a command-line option, use $shrpenv to
# set env LD_RUN_PATH.  The main perl makefile uses this.
shrpdir=$archlibexp/CORE
xxx="
tmp_shrpenv="
if "$useshrplib"; then
   case "$osname" in
 aix)
  # We'll set it in Makefile.SH...
  ;;
 solaris)
  xxx="-R $shrpdir"
  ;;
 freebsd|minix|mirbsd|netbsd|openbsd|interix|dragonfly|bitrig)
```

```
  xxx="-Wl,-R$shrpdir"
  ;;
 bsdos|linux|irix*|dec_osf|gnu*|haiku)
  xxx="-Wl,-rpath,$shrpdir"
  ;;
 hpux*)
  # hpux doesn't like the default, either.
  tmp_shrpenv="env LDOPTS=\"+s +b${shrpdir}\""
  ;;
 cygwin)
  # cygwin needs only ldlibpth
  ;;
 *)
  tmp_shrpenv="env LD_RUN_PATH=$shrpdir"
  ;;
 esac
 case "$xxx" in
 '') ;;
 *)
  # Only add $xxx if it isn't already in ccdlflags.
  case
 " $ccdlflags " in
  *" $xxx "*) ;;
  *) ccdlflags="$ccdlflags $xxx"
   cat <<EOM >&4

Adding $xxx to the flags
passed to $ld so that the perl executable will find the
installed shared $libperl.

EOM
   ;;
  esac
  ;;
 esac
fi
# Fix ccdlflags in AIX for building external extensions.
# (For building Perl itself bare -bE:perl.exp is needed,
#  Makefile.SH takes care of this.)
case "$osname" in
aix) ccdlflags="$ccdlflags -bE:$installarchlib/CORE/perl.exp" ;;
esac
# Respect a hint or command-line value.
case "$shrpenv" in
'') shrpenv="$tmp_shrpenv" ;;
esac
case "$ldlibpthname" in
'') ldlibpthname=LD_LIBRARY_PATH ;;
```

```
none) ldlibpthname='' ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/libperl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isinfl: Inlibc
?MAKE: -pick add $@ %<
?S:d_isinfl:
?S: This variable conditionally defines the HAS_ISINFL symbol, which
?S: indicates to the C program that the isinfl() routine is available.
?S:.
?C:HAS_ISINFL:
?C: This symbol, if defined, indicates that the isinfl routine is
?C: available to check whether a long double is an infinity.
?C:.
?H:#$d_isinfl HAS_ISINFL  /**/
?H:.
?LINT:set d_isinfl
: see if isinfl exists
set isinfl d_isinfl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_isinfl.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:gidsize: Myread Typedef gidtype Compile run i_stdlib
?MAKE: -pick add $@ %<
```

```
?S:gidsize:
?S: This variable contains the size of a gidtype in bytes.
?S:.
?C:Gid_t_size:
?C: This symbol holds the size of a Gid_t in bytes.
?C:.
?H:#define Gid_t_size $gidsize  /* GID size */
?H:.
?T:yyy zzz
?F:!try
: Check the size of GID
echo " "
case "$gidtype" in
*_t) zzz="$gidtype" ;;
*)   zzz="gid"  ;;
esac
echo "Checking the size of $zzz..." >&4
cat > try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include
 <stdlib.h>
#endif
int main() {
   printf("%d\n", (int)sizeof($gidtype));
   exit(0);
}
EOCP
set try
if eval $compile_ok; then
 yyy=`$run ./try`
 case "$yyy" in
 ") gidsize=4
  echo "(I can't execute the test program--guessing $gidsize.)" >&4
  ;;
 *) gidsize=$yyy
  echo "Your $zzz is $gidsize bytes long."
  ;;
 esac
else
 gidsize=4
 echo "(I can't compile the test program--guessing $gidsize.)" >&4
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/typedefs/gidsize.U
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```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strlcat: Inlibc Hasproto d_gnulibc
?MAKE: -pick add $@ %<
?S:d_strlcat:
?S: This variable conditionally defines the HAS_STRLCAT symbol, which
?S: indicates to the C program that the strlcat () routine is available.
?S:.
?C:HAS_STRLCAT:
?C: This symbol, if defined, indicates that the strlcat () routine is
?C: available to do string concatenation.
?C:.
?H:#$d_strlcat HAS_STRLCAT  /**/
?H:.
?T:d_strlcat_proto xx1 xx2 xx3 xx4
?LINT:set d_strlcat
: see if strlcat exists
: We need both a prototype in string.h and the symbol in libc.
echo " "
d_strlcat_proto=''
xx1='#$d_gnulibc HAS_GNULIBC'
xx2='#if defined(HAS_GNULIBC) && !defined(_GNU_SOURCE)'
xx3='#   define _GNU_SOURCE'
xx4='#endif'
set d_strlcat_proto
 strlcat literal "$xx1" literal "$xx2" literal "$xx3" literal "$xx4" define string.h
eval $hasproto
case "$d_strlcat_proto" in
   define) # see if strlcat exists
 set strlcat d_strlcat
 eval $inlibc
 ;;
   *)  val=$undef
 set d_strlcat
 eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/perl/d_strlcat.U
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_lc_monetary_2008: cat Compile rm_try d_locconv
?MAKE: -pick add $@ %<
?S:d_lc_monetary_2008:
?S: This variable conditionally defines HAS_LC_MONETARY_2008 if libc
?S: has the international currency locale rules from POSIX
?S: 1003.1-2008.
?S:.
?C:HAS_LC_MONETARY_2008:
?C: This symbol, if defined, indicates that the localeconv routine is
?C: available and has the additional members added in POSIX 1003.1-2008.
?C:.
?H:#$d_lc_monetary_2008 HAS_LC_MONETARY_2008  /**/
?H:.
: see if libc has the POSIX.1-2008 currency locale rules
case "$d_locconv:$d_lc_monetary_2008" in
$define:)
 $cat
 >try.c <<EOCP
#include <locale.h>
int main() {
 struct lconv *lc = localeconv();
 char int_p_cs_precedes = lc->int_p_cs_precedes;
 return 0;
}
EOCP
 set try
 if eval $compile; then
  d_lc_monetary_2008="$define"
 else
  d_lc_monetary_2008="$undef"
 fi;
 $rm_try
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_lc_monetary_2008.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_malloc.U,v 3.5 2008/03/29 14:06:51 merijn Exp $
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.5.
?RCS:
?MAKE:i_mallocmalloc: Inhdr
?MAKE: -pick add $@ %<
?S:i_mallocmalloc:
?S: This variable conditionally defines the I_MALLOCMALLOC symbol,
?S: and indicates whether a C program should include <malloc/malloc.h>.
?S:.
?C:I_MALLOCMALLOC:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <malloc/malloc.h>.
?C:.
?H:#$i_mallocmalloc I_MALLOCMALLOC  /**/
?H:.
?LINT:set i_mallocmalloc
: see if malloc/malloc.h has to be included
set malloc/malloc.h i_mallocmalloc
eval
 $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_mallocmalloc.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:Devel usedevel: Myread rsrc package
?MAKE: -pick wipe $@ %<
?T:xversion
```

```
?X: waiver of rights
?S:usedevel:
?S: This variable indicates that Perl was configured with development
?S: features enabled.  This should not be done for production builds.
?S:.
?C:PERL_USE_DEVEL:
?C: This symbol, if defined, indicates that Perl was configured with
?C: -Dusedevel, to enable development features.  This should not be
?C: done for production builds.
?C:.
?H:#$usedevel PERL_USE_DEVEL  /**/
?H:.
?LINT:extern versionony
?LINT:extern
 installusrbinperl
?LINT:change versionony
?LINT:change installusrbinperl
: See if we are using a devel version and want that
xversion=`awk '/define[  ]+PERL_VERSION/ {print $3}' $rsrc/patchlevel.h`
case "$usedevel" in
$define|true|[yY]*)
   usedevel="$define" ;;
*) case "$xversion" in
  *[13579])
 cat >&4 <<EOH
*** WHOA THERE!!! ***

   This is an UNSTABLE DEVELOPMENT release.
   The version of this $package distribution is $xversion, that is, odd,
   (as opposed to even) and that signifies a development release.
   If you want a maintenance release, you want an even-numbered version.

   Do ***NOT*** install this into production use.
   Data corruption and crashes are possible.

   It is most seriously suggested that you do not continue any further
   unless you want to help in developing and debugging Perl.

   If you *still* want to build perl, you can answer 'y' now,
   or pass -Dusedevel to Configure.

EOH
 rp='Do you really want to continue?'
 dflt='n'
 . ./myread
 case
 "$ans" in
 [yY]) echo >&4 "Okay, continuing."
```

```
      usedevel="$define" ;;
 *) echo >&4 "Okay, bye."
    exit 1
    ;;
 esac
 ;;
   esac
   usedevel="$undef"
   ;;
esac
case "$usedevel" in
$define|true|[yY]*)
 case "$versiononly" in
 ") versiononly="$define" ;;
 esac
 case "$installusrbinperl" in
 ") installusrbinperl="$undef" ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/Devel.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setsent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_setsent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setsent: Inlibc
?MAKE: -pick add $@ %<
?S:d_setsent:
?S: This variable conditionally defines HAS_SETSERVENT if setservent() is
?S: available.
?S:.
?C:HAS_SETSERVENT:
?C: This symbol, if defined, indicates that the setservent() routine is
```

```
?C: available.
?C:.
?H:#$d_setsent HAS_SETSERVENT  /**/
?H:.
?LINT:set d_setsent
: see if setservent exists
set
 setservent d_setsent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_setsent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: voidflags.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:27:58  ram
?RCS: patch61: don't prompt them if the void support is high enough for us
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:37:44  ram
?RCS: patch45: cosmetic change to avoid spurious blank lines when using -s
?RCS:
?RCS: Revision 3.0  1993/08/18  12:10:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:voidflags defvoidused: cat sed rm rm_try contains +cc +ccflags package \
 Oldconfig Myread
?MAKE: -pick add $@ %<
?S:voidflags:
?S: This
 variable contains the eventual value of the VOIDFLAGS symbol,
?S: which indicates how much support of the void type is given by this
?S: compiler.  See VOIDFLAGS for more info.
?S:.
?S:defvoidused:
?S: This variable contains the default value of the VOIDUSED symbol (15).
?S:.
?X: Exceptionally, we have to explicitly alias the symbol name for
```

```
?X: config_h.SH, otherwise the comment would not appear.
?C:VOIDFLAGS ~ %<:
?C: This symbol indicates how much support of the void type is given by this
?C: compiler.  What various bits mean:
?C:
?C:     1 = supports declaration of void
?C:     2 = supports arrays of pointers to functions returning void
?C:     4 = supports comparisons between pointers to void functions and
?C:      addresses of void functions
?C:     8 = suports declaration of generic void pointers
?C:
?C: The package designer should define VOIDUSED to indicate the requirements
?C: of the package.  This can be done either by #defining VOIDUSED before
?C: including
 config.h, or by defining defvoidused in Myinit.U.  If the
?C: latter approach is taken, only those flags will be tested.  If the
?C: level of void support necessary is not present, defines void to int.
?C:.
?H:?%<:#ifndef VOIDUSED
?H:?%<:#define VOIDUSED $defvoidused
?H:?%<:#endif
?H:?%<:#define VOIDFLAGS $voidflags
?H:?%<:#if (VOIDFLAGS & VOIDUSED) != VOIDUSED
?H:?%<:#define void int  /* is void to be avoided? */
?H:?%<:#define M_VOID   /* Xenix strikes again */
?H:?%<:#endif
?H:.
?W:%<:void
?F:!.out !try.c !flags
?LINT:usefile .out flags try.c
?INIT:: full support for void wanted by default
?INIT:defvoidused=15
?INIT:
?LINT:known void M_VOID VOIDUSED
: check for void type
echo " "
echo "Checking to see how well your C compiler groks the void type..." >&4
$cat >flags <<EOM

 Support flag bits are:
   1: basic void declarations.
   2: arrays of pointers to functions returning void.
   4: operations between pointers to and addresses of void functions.
   8: generic void pointers.

EOM
case
```

```
 "$voidflags" in
")
 $cat >try.c <<'EOCP'
#if TRY & 1
void sub() {
#else
sub() {
#endif
 extern void moo(); /* function returning void */
 void (*goo)();  /* ptr to func returning void */
#if TRY & 8
 void *hue;  /* generic ptr */
#endif
#if TRY & 2
 void (*foo[10])();
#endif

#if TRY & 4
 if(goo == moo) {
  exit(0);
 }
#endif
 exit(0);
}
int main() { sub(); }
EOCP
?X: This unit used to use cc -S in those tests to try to speed up things, but
?X: unfortunately, AIX 3.2 does not support this option.
 if $cc $ccflags -c -DTRY=$defvoidused try.c >.out 2>&1 ; then
  voidflags=$defvoidused
  echo "Good.  It appears to support void to the level $package wants."
  if $contains warning .out >/dev/null 2>&1; then
   echo "However, you might get some warnings that look like this:"
   $sed -e 's/^/ /' .out
  fi
 else
echo "Hmm, your compiler has some difficulty with void. Checking further..." >&4
  $cat >&4 flags
  $rm -f flags
  if $cc $ccflags -c -DTRY=1 try.c >/dev/null 2>&1; then
   echo
 "It supports 1..."
   if $cc $ccflags -c -DTRY=3 try.c >/dev/null 2>&1; then
    echo "It also supports 2..."
    if $cc $ccflags -c -DTRY=7 try.c >/dev/null 2>&1; then
     voidflags=7
     echo "And it supports 4 but not 8 definitely."
    else
```

```
    echo "It doesn't support 4..."
    if $cc $ccflags -c -DTRY=11 try.c >/dev/null 2>&1; then
     voidflags=11
     echo "But it supports 8."
    else
     voidflags=3
     echo "Neither does it support 8."
    fi
   fi
  else
   echo "It does not support 2..."
   if $cc $ccflags -c -DTRY=13 try.c >/dev/null 2>&1; then
    voidflags=13
    echo "But it supports 4 and 8."
   else
    if $cc $ccflags -c -DTRY=5 try.c >/dev/null 2>&1; then
     voidflags=5
     echo "And it supports 4 but has not heard about 8."
    else
     echo "However it supports 8 but not 4."
    fi
   fi
  fi
 else
  echo "There is no support at all for void."
  voidflags=0
 fi
fi
esac
?X: Only prompt user if support does not match the
 level we want
case "$voidflags" in
"$defvoidused")
 echo "Good.  I already know it supports void to the level $package wants."
 ;;
*)
 dflt="$voidflags";
 test -f flags && $cat flags
 rp="Your void support flags add up to what?"
 . ./myread
 voidflags="$ans"
 ;;
esac
$rm_try flags
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/voidflags.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: nametype.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: nametype.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:26:09  ram
?RCS: patch36: call ./usg and ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:36:48  ram
?RCS: patch32: fixed typo: /etc/password -> /etc/passwd (WED)
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:10:09  ram
?RCS: patch10: made questions more explicit for 'Configure -s' prompting (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:20  ram
?RCS: Baseline
 for dist 3.0 netwide release.
?RCS:
?MAKE:nametype d_passnames d_berknames d_usgnames: Myread Guess Oldconfig cat
?MAKE: -pick add $@ %<
?S:nametype:
?S: This variable indicates how full names are stored on this system.
?S: Values are bsd, usg, and other.
?S:.
?S:d_passnames:
?S: This variable conditionally defines the PASSNAMES symbol,
?S: which indicates to the C program that full names are stored in
?S: the /etc/passwd file.
?S:.
?S:d_berknames:
?S: This variable conditionally defines the PASSNAMES symbol,
?S: which indicates to the C program that full names are stored in
?S: the /etc/passwd file in Berkeley format.
?S:.
?S:d_usgnames:
?S: This variable conditionally defines the PASSNAMES symbol,
?S: which indicates to the C program that full names are stored in
?S: the /etc/passwd file in USG format.
?S:.
?C:PASSNAMES:
```

```
?C: This symbol, if defined, indicates that full names are stored in
?C: the /etc/passwd file.
?C:.
?C:BERKNAMES:
?C: This symbol, if defined, indicates that full
 names are stored in
?C: the /etc/passwd file in Berkeley format (name first thing, everything
?C: up to first comma, with & replaced by capitalized login id, yuck).
?C:.
?C:USGNAMES:
?C: This symbol, if defined, indicates that full names are stored in
?C: the /etc/passwd file in USG format (everything after - and before ( is
?C: the name).
?C:.
?H:#$d_passnames PASSNAMES /*  (undef to take name from ~/.fullname) */
?H:#$d_berknames BERKNAMES /* (that is, ":name,stuff:") */
?H:#$d_usgnames USGNAMES  /* (that is, ":stuff-name(stuff):") */
?H:.
: find out how to find out full name
case "$d_berknames" in
"$define")
 dflt=y;;
"$undef")
 dflt=n;;
*)
 if ./bsd; then
  dflt=y
 elif ./xenix; then
  dflt=y
 else
  dflt=n
 fi
 ;;
esac
$cat <<'EOM'

Does your /etc/passwd file keep full names in Berkeley/V7 format (name first
thing after ':' in GCOS field)?  In that case, a typical entry in the password
file looks like this:

   guest:**paswword**:10:100:Mister Guest User:/usr/users:/bin/sh

                         ^^^^^^^^^^^^^^^^^^
EOM
rp="Berkeley/V7 format for full name in /etc/passwd?"
. ./myread
case "$ans" in
y*) d_passnames="$define"
```

```
 d_berknames="$define"
 d_usgnames="$undef"
 nametype=bsd
 ;;
*)
 case "$d_usgnames" in
 "$define") dflt=y;;
 "$undef") dflt=n;;
 *)
  if ./usg; then
   dflt=y
  else
   dflt=n
  fi
  ;;
 esac
$cat <<'EOM'

Does your passwd file keep full names in USG format (name sandwiched between a
'-' and a '(')?  In that case, a typical entry in the password file looks like
this:

   guest:**paswword**:10:100:000-Mister Guest User(000):/usr/users:/bin/sh
                              ^^^^^^^^^^^^^^^^^^
EOM
 rp="USG format for full name in /etc/passwd?"
 . ./myread
 case "$ans" in
 n*) echo "Full name will be taken from ~/.fullname"
  d_passnames="$undef"
  d_berknames="$undef"
  d_usgnames="$undef"
  nametype=other
  ;;
 *)
  d_passnames="$define"
  d_berknames="$undef"
  d_usgnames="$define"
  nametype=usg
  ;;
 esac;;
esac

Found in path(s):
*
 /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
5.36.0/dist/U/nametype.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memchr.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:32  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_memchr: Inlibc
?MAKE: -pick add $@ %<
?S:d_memchr:
?S: This variable conditionally defines the HAS_MEMCHR symbol, which
?S: indicates to the C program that the memchr() routine is available
?S: to scan a block of memory for a character.
?S:.
?C:HAS_MEMCHR:
?C: This symbol, if defined, indicates that the memchr routine is available
?C: to scan a block of memory for a character.
  If undefined, roll your own.
?C:.
?H:#$d_memchr HAS_MEMCHR  /**/
?H:.
?LINT:set d_memchr
: see if memchr exists
set memchr d_memchr
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_memchr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libflex.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libflex.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:57:48  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:07:02  ram
?RCS: patch23: now uses full library path instead of -l notation
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:13:25  ram
?RCS: patch16: un-obsoleted this unit to allow smooth lex/flex compilations
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:59  ram
?RCS: Baseline for dist 3.0 netwide
 release.
?RCS:
?MAKE:libflex: Loc lex libpth _a
?MAKE: -pick add $@ %<
?S:libflex:
?S: This variable contains the argument to pass to the loader in order
?S: to get the flex/lex library routines.  If there is no flex or flex
?S: library, it is null.
?S:.
?T:xxx
: see if we should include -lfl
echo " "
case "$lex" in
*flex)
 xxx=`./loc libfl$_a x $libpth`
 case "$xxx" in
 x)
  echo "No flex library found." >&4
  libflex=''
  ;;
 *)
  echo "flex library found in $xxx." >&4
  libflex="$xxx"
  ;;
 esac
 ;;
*lex)
 xxx=`./loc libl$_a x $libpth`
 case "$xxx" in
 x)
  echo "No lex library found." >&4
  libflex=''
  ;;
 *)
```

```
  echo "lex library found in $xxx." >&4
  libflex="$xxx"
  ;;
 esac
 ;;
*)
echo "You don't seem to have lex or flex, so I won't look for libraries." >&4
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/libflex.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_tmpnam_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_tmpnam_r tmpnam_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads extern_C
?MAKE: -pick add $@ %<
?S:d_tmpnam_r:
?S: This variable conditionally defines the HAS_TMPNAM_R symbol,
?S: which indicates to the C program that the tmpnam_r()
?S: routine is available.
?S:.
?S:tmpnam_r_proto:
?S: This variable encodes the prototype of tmpnam_r.
?S: It is zero if d_tmpnam_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_tmpnam_r
?S: is defined.
?S:.
?C:HAS_TMPNAM_R:
?C: This symbol, if defined, indicates that the tmpnam_r routine
?C: is available to tmpnam re-entrantly.
?C:.
?C:TMPNAM_R_PROTO:
?C: This
 symbol encodes the prototype of tmpnam_r.
?C: It is zero if d_tmpnam_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_tmpnam_r
?C: is defined.
?C:.
```

```
?H:#$d_tmpnam_r HAS_TMPNAM_R /**/
?H:#define TMPNAM_R_PROTO $tmpnam_r_proto /**/
?H:.
?T:try hdrs d_tmpnam_r_proto
: see if tmpnam_r exists
set tmpnam_r d_tmpnam_r
eval $inlibc
case "$d_tmpnam_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h "
 case "$d_tmpnam_r_proto:$usethreads" in
 ":define") d_tmpnam_r_proto=define
  set d_tmpnam_r_proto tmpnam_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_tmpnam_r_proto" in
 define)
 case "$tmpnam_r_proto" in
 "|0) try='char* tmpnam_r(char*);'
 ./protochk "$extern_C $try" $hdrs && tmpnam_r_proto=B_B ;;
 esac
 case "$tmpnam_r_proto" in
 "|0) d_tmpnam_r=undef
  tmpnam_r_proto=0
  echo "Disabling tmpnam_r, cannot determine prototype." >&4 ;;
 * ) case "$tmpnam_r_proto" in
  REENTRANT_PROTO*) ;;
  *) tmpnam_r_proto="REENTRANT_PROTO_$tmpnam_r_proto"
 ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "tmpnam_r has no prototype, not using it." >&4 ;;
  esac
  d_tmpnam_r=undef
  tmpnam_r_proto=0
  ;;
 esac
 ;;
*) tmpnam_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/threads/d_tmpnam_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_wait3.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_wait3.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_wait3: Inlibc
?MAKE: -pick add $@ %<
?S:d_wait3:
?S: This variable conditionally defines the HAS_WAIT3 symbol, which
?S: indicates to the C program that the wait3() subroutine exists.
?S:.
?C:HAS_WAIT3:
?C: This symbol, if defined, indicates that the wait3() subroutine
?C: exists.
?C:.
?H:#$d_wait3 HAS_WAIT3 /**/
?H:.
?LINT:set d_wait3
:
 see if 'wait3()' exists
set wait3 d_wait3
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_wait3.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getnetbyaddr_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
```

```
?MAKE:d_getnetbyaddr_r getnetbyaddr_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getnetbyaddr_r:
?S: This variable conditionally defines the HAS_GETNETBYADDR_R symbol,
?S: which indicates to the C program that the getnetbyaddr_r()
?S: routine is available.
?S:.
?S:getnetbyaddr_r_proto:
?S: This variable encodes the prototype of getnetbyaddr_r.
?S: It is zero if d_getnetbyaddr_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getnetbyaddr_r
?S: is defined.
?S:.
?C:HAS_GETNETBYADDR_R:
?C: This symbol, if defined, indicates that
 the getnetbyaddr_r routine
?C: is available to getnetbyaddr re-entrantly.
?C:.
?C:GETNETBYADDR_R_PROTO:
?C: This symbol encodes the prototype of getnetbyaddr_r.
?C: It is zero if d_getnetbyaddr_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getnetbyaddr_r
?C: is defined.
?C:.
?H:#$d_getnetbyaddr_r HAS_GETNETBYADDR_R /**/
?H:#define GETNETBYADDR_R_PROTO $getnetbyaddr_r_proto /**/
?H:.
?T:try hdrs d_getnetbyaddr_r_proto
: see if getnetbyaddr_r exists
set getnetbyaddr_r d_getnetbyaddr_r
eval $inlibc
case "$d_getnetbyaddr_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getnetbyaddr_r_proto:$usethreads" in
 ":define") d_getnetbyaddr_r_proto=define
  set d_getnetbyaddr_r_proto getnetbyaddr_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getnetbyaddr_r_proto" in
 define)
 case "$getnetbyaddr_r_proto" in
 "|0) try='int getnetbyaddr_r(unsigned long, int, struct netent*, char*, size_t, struct netent**, int*);'
 ./protochk
 "$extern_C $try" $hdrs && getnetbyaddr_r_proto=I_UISBWRE ;;
 esac
```

```
case "$getnetbyaddr_r_proto" in
"|0) try='int getnetbyaddr_r(long, int, struct netent*, char*, int);'
./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=I_LISBI ;;
esac
case "$getnetbyaddr_r_proto" in
"|0) try='struct netent* getnetbyaddr_r(in_addr_t, int, struct netent*, char*, int);'
./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=S_TISBI ;;
esac
case "$getnetbyaddr_r_proto" in
"|0) try='struct netent* getnetbyaddr_r(long, int, struct netent*, char*, int);'
./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=S_LISBI ;;
esac
case "$getnetbyaddr_r_proto" in
"|0) try='int getnetbyaddr_r(in_addr_t, int, struct netent*, struct netent_data*);'
./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=I_TISD ;;
esac
case "$getnetbyaddr_r_proto" in
"|0) try='int getnetbyaddr_r(long, int, struct netent*, struct netent_data*);'
./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=I_LISD
;;
esac
case "$getnetbyaddr_r_proto" in
"|0) try='int getnetbyaddr_r(int, int, struct netent*, struct netent_data*);'
./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=I_IISD ;;
esac
case "$getnetbyaddr_r_proto" in
"|0) try='int getnetbyaddr_r(uint32_t, int, struct netent*, char*, size_t, struct netent**, int*);'
./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=I_uISBWRE ;;
esac
case "$getnetbyaddr_r_proto" in
"|0) d_getnetbyaddr_r=undef
 getnetbyaddr_r_proto=0
 echo "Disabling getnetbyaddr_r, cannot determine prototype." >&4 ;;
* ) case "$getnetbyaddr_r_proto" in
 REENTRANT_PROTO*) ;;
 *) getnetbyaddr_r_proto="REENTRANT_PROTO_$getnetbyaddr_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "getnetbyaddr_r has no prototype, not using it." >&4 ;;
 esac
 d_getnetbyaddr_r=undef
 getnetbyaddr_r_proto=0
 ;;
esac
;;
```

```
*) getnetbyaddr_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getnetbyaddr_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X: This unit generates a $hasfield string that is used internally
?X: by Configure to check if this system has a field for a
?X: particular struct (of if this system has a particular struct!)
?X:
?X: To use it, say something like:
?X:  set d_statblocks stat st_blocks i_sysstat sys/stat.h
?X:  eval $hasfield
?X: Or, for more complicated sets of headers, do something like
?X: hdrs="$define sys/foo.h
?X:  $i_sysbar sys/bar.h
?X:  $i_syszot sys/zot.h
?X:  $i_zappa zappa.h"
?X: set d_statblocks stat st_blocks $hdrs
?X: eval $hasfield
?X:
?MAKE:Hasfield: Setvar rm_try test Compile
?MAKE: -pick add $@ %<
?T:varname struct field
?V:hasfield
: Define hasfield macro for Configure internal use
hasfield='varname=$1;
 struct=$2; field=$3; shift; shift; shift;
while $test $# -ge 2; do
 case "$1" in
 $define) echo "#include <$2>";;
 esac ;
   shift 2;
done > try.c;
echo "int main () { struct $struct foo; char* bar; bar = (char*)foo.$field; }" >> try.c;
set try;
if eval $compile; then
 val="$define";
```

```
else
 val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try'
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/Hasfield.U
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```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sockopt.U,v $
?RCS: Revision 3.0.1.1  1995/07/25  14:16:14  ram
?RCS: patch56: obsoleted KEEPALIVE in favor of CAN_KEEPALIVE for consistency
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_keepalive: cat rm contains +cc +ccflags socketlib sockethdr \
 d_oldsock libs Oldconfig Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_keepalive:
?S: This symbol conditionally defines CAN_KEEPALIVE which indicates to the C
?S: program that setsockopt
 SO_KEEPALIVE will work properly.
?S:.
?C:CAN_KEEPALIVE (KEEPALIVE):
?C: This symbol if defined indicates to the C program that the SO_KEEPALIVE
?C: option of setsockopt() will work as advertised in the manual.
?C:.
?H:#$d_keepalive CAN_KEEPALIVE  /**/
?H:.
?F:!socket
?LINT:set d_keepalive
: see if setsockopt with SO_KEEPALIVE works as advertised
echo " "
case "$d_oldsock" in
```

```
"$undef")
 if $contains SO_KEEPALIVE `./findhdr sys/socket.h` \
  /dev/null >/dev/null 2>&1
 then
  echo "OK, let's see if SO_KEEPALIVE works as advertised..." >&4
  $cat > socket.c <<EOP
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
#include <netdb.h>

int main()
{
 int s = socket(AF_INET, SOCK_STREAM, 0);
 if (s == -1)
  exit(1);
 if (-1 == setsockopt(s, SOL_SOCKET, SO_KEEPALIVE, 0, 0))
  exit(2);
 exit(0);
}
EOP
  if $cc $ccflags $sockethdr -o socket socket.c $libs \
   $socketlib >/dev/null 2>&1; then
   ./socket >/dev/null 2>&1
   case $? in
   0) echo "Yes, it does!"
    val="$define";;
   1)
 $cat <<EOM
(Something went wrong -- Assuming SO_KEEPALIVE is broken)
EOM
    val="$undef";;
   2) echo "No, it doesn't.  Don't trust your manuals!!"
    val="$undef";;
   esac
  else
   cat <<EOM
(I can't compile the test program -- Assuming SO_KEEPALIVE is broken)
EOM
   val="$undef"
  fi
 else
  echo "Strange!! You have BSD 4.2 sockets but no SO_KEEPALIVE option."
  val="$undef"
 fi;;
*) cat <<EOM
As you have an old socket interface, you can't have heard of SO_KEEPALIVE.
EOM
```

```
 val="$undef";;
esac
set d_keepalive
eval $setvar
$rm -f socket socket.c
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/sockopt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2015 Jarkko Hietaniemi, H.Merijn Brand
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?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:longdblmantbits doublemantbits nvmantbits: Inlibc cat Compile run \
 rm_try Setvar echo i_sunmath usequadmath \
 d_longdbl longdblkind nvsize doublesize longdblsize
?MAKE: -pick add $@ %<
?S:doublemantbits:
?S: This symbol, if defined, tells how many mantissa bits
?S: there are in double precision floating point format.
?S: Note that this is usually DBL_MANT_DIG minus one, since
?S: with the standard IEEE 754 formats DBL_MANT_DIG includes
?S: the implicit bit which doesn't really exist.
?S:.
?S:longdblmantbits:
?S: This symbol, if defined, tells how many mantissa bits
?S: there are in long double precision floating point format.
?S: Note that this can be LDBL_MANT_DIG minus one,
?S: since
 LDBL_MANT_DIG can include the IEEE 754 implicit bit.
?S: The common x86-style 80-bit long double does not have
?S: an implicit bit.
?S:.
?S:nvmantbits:
?S: This variable tells how many bits the mantissa of a Perl NV has,
?S: not including the possible implicit bit.
?S:.
?C:DOUBLEMANTBITS:
?C: This symbol, if defined, tells how many mantissa bits
?C: there are in double precision floating point format.
?C: Note that this is usually DBL_MANT_DIG minus one, since
?C: with the standard IEEE 754 formats DBL_MANT_DIG includes
?C: the implicit bit, which doesn't really exist.
```

```
?C:.
?C:LONGDBLMANTBITS:
?C: This symbol, if defined, tells how many mantissa bits
?C: there are in long double precision floating point format.
?C: Note that this can be LDBL_MANT_DIG minus one,
?C: since LDBL_MANT_DIG can include the IEEE 754 implicit bit.
?C: The common x86-style 80-bit long double does not have
?C: an implicit bit.
?C:.
?C:NVMANTBITS:
?C: This symbol, if defined, tells how many mantissa bits
?C: (not
 including implicit bit) there are in a Perl NV.
?C: This depends on which floating point type was chosen.
?C:.
?H:#define DOUBLEMANTBITS  $doublemantbits
?H:#define LONGDBLMANTBITS $longdblmantbits
?H:#define NVMANTBITS      $nvmantbits
?H:.
?F:!try
: Check the length of the double mantissa
$echo "Checking how many mantissa bits your doubles have..." >&4
$cat >try.c <<EOP
#$i_sunmath I_SUNMATH
#include <float.h>
#ifdef I_SUNMATH
# include <sunmath.h>
#endif
#ifdef DBL_MANT_DIG
# define BITS (DBL_MANT_DIG - 1) /* the implicit bit does not count */
#endif
#include <stdio.h>
int main(int argc, char *argv[]) {
#ifdef BITS
 printf("%d\n", BITS);
#endif
 return 0;
}
EOP
set try
if eval $compile; then
   doublemantbits=`$run ./try`
else
   doublemantbits="$undef"
fi
$rm_try

: Check the length of the longdouble mantissa
```

```
$echo "Checking how many mantissa bits your long doubles have..." >&4
$cat >try.c <<EOP
#$i_sunmath I_SUNMATH
#include <float.h>
#ifdef I_SUNMATH
# include <sunmath.h>
#endif
#$d_longdbl
 HAS_LONG_DOUBLE
#if defined(HAS_LONG_DOUBLE) && defined(LDBL_MANT_DIG)
# if ($longdblkind == 3) || ($longdblkind == 4) /* 80-bit extended precision */
/* This format has no implicit bit.  Beware, however, that for
* this format the bare LDBL_MANT_DIG is misleading for inf/nan:
* the top three bits are used for inf (100) / qnan (11x) / snan (101),
* and the top bit must have been one since 387, zero is plain invalid.
* For normal fp values, the LDBL_MANT_DIG is fine, though. */
#  define BITS LDBL_MANT_DIG
# elif ($longdblkind == 5 || $longdblkind == 6 || $longdblkind == 7 || $longdblkind == 8) /* double double */
/* LDBL_MANT_DIG of 106 (twice 53) would be logical, but for some
* reason e.g. Irix thinks 107.  But in any case, we want only
* the number of real bits, the implicit bits are of no interest.  */
#  define BITS 2 * (DBL_MANT_DIG - 1)
# else
#  define BITS (LDBL_MANT_DIG - 1) /* the implicit bit does not count */
# endif
#endif
#include <stdio.h>
int
 main(int argc, char *argv[]) {
#ifdef BITS
 printf("%d\n", BITS);
#endif
 return 0;
}
EOP
set try
if eval $compile; then
   longdblmantbits=`$run ./try`
else
   longdblmantbits="$undef"
fi
$rm_try

: Check the length of the NV mantissa
$echo "Checking how many mantissa bits your NVs have..." >&4
if test "X$usequadmath" = "X$define"; then
 nvmantbits=112 # 128-1-15
else
```

```
 if test "X$nvsize" = "X$doublesize"; then
   nvmantbits="$doublemantbits"
 else
    if test "X$nvsize" = "X$longdblsize"; then
      nvmantbits="$longdblmantbits"
    else
      nvmantbits="$undef"
    fi
 fi
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/mantbits.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: installstyle.U,v 1.2 1999/07/13 14:56:06 doughera Exp $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: installstyle.U,v $
?RCS: Revision 1.2  1999/07/13 14:56:06  doughera
?RCS: Fix dependencies.  Add more comments.
?RCS:
?RCS: Revision 1.1  1999/07/12 17:30:41  doughera
?RCS: Initial revision
?RCS:
?RCS:
?MAKE:installstyle: prefix Myread
?MAKE: -pick add $@ %<
?X: Myread dependence is for dflt.
?S:installstyle:
?S: This variable describes the "style" of the perl installation.
?S: This is intended to be useful for tools that need to
?S: manipulate entire perl
 distributions.  Perl itself doesn't use
?S: this to find its libraries -- the library directories are
?S: stored directly in Config.pm.  Currently, there are only two
?S: styles:  "lib" and "lib/perl5".  The default library locations
?S: (e.g. privlib, sitelib) are either $prefix/lib or
?S: $prefix/lib/perl5.  The former is useful if $prefix is a
?S: directory dedicated to perl (e.g. /opt/perl), while the latter
```

```
?S: is useful if $prefix is shared by many packages, e.g. if
?S: $prefix=/usr/local.
?S:
?S: Unfortunately, while this "style" variable is used to set
?S: defaults for all three directory hierarchies (core, vendor, and
?S: site), there is no guarantee that the same style is actually
?S: appropriate for all those directories.  For example, $prefix
?S: might be /opt/perl, but $siteprefix might be /usr/local.
?S: (Perhaps, in retrospect, the "lib" style should never have been
?S: supported, but it did seem like a nice idea at the time.)
?S:
?S: The situation is even less clear for
 tools such as MakeMaker
?S: that can be used to install additional modules into
?S: non-standard places.  For example, if a user intends to install
?S: a module into a private directory (perhaps by setting PREFIX on
?S: the Makefile.PL command line), then there is no reason to
?S: assume that the Configure-time $installstyle setting will be
?S: relevant for that PREFIX.
?S:
?S: This may later be extended to include other information, so
?S: be careful with pattern-matching on the results.
?S:
?S: For compatibility with perl5.005 and earlier, the default
?S: setting is based on whether or not $prefix contains the string
?S: "perl".
?S:.
: determine installation style
: For now, try to deduce it from prefix unless it is already set.
: Reproduce behavior of 5.005 and earlier, maybe drop that in 5.7.
case "$installstyle" in
") case "$prefix" in
  *perl*) dflt='lib';;
  *) dflt='lib/perl5' ;;
 esac
 ;;
*) dflt="$installstyle" ;;
esac
: Probably not worth prompting for this since we prompt
 for all
: the directories individually, and the prompt would be too long and
: confusing anyway.
installstyle=$dflt
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/installstyle.U

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```
?RCS: $Id: d_ftrncate.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_ftrncate.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_ftrncate: Inlibc
?MAKE: -pick add $@ %<
?S:d_ftrncate (d_ftruncate):
?S: This variable conditionally defines the HAS_FTRUNCATE symbol, which
?S: indicates to the C program that the ftruncate() subroutine exists.
?S:.
?C:HAS_FTRUNCATE:
?C: This symbol, if defined, indicates that the ftruncate() subroutine
?C: exists.
?C:.
?H:#$d_ftrncate
 HAS_FTRUNCATE /**/
?H:.
?LINT:set d_ftrncate
: see if ftruncate exists
set ftruncate d_ftrncate
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_ftrncate.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
?RCS: Copyright (c) 2014 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_ptrdiff_t: Inlibc Setvar Compile rm_try cat
?MAKE: -pick add $@ %<
```

```
?S:d_ptrdiff_t:
?S: This symbol will be defined if the C compiler supports ptrdiff_t.
?S:.
?C:HAS_PTRDIFF_T:
?C: This symbol will be defined if the C compiler supports ptrdiff_t.
?C:.
?H:#$d_ptrdiff_t HAS_PTRDIFF_T  /**/
?H:.
?LINT:set d_ptrdiff_t
: check for ptrdiff_t
echo " "
echo "Checking to see if you have ptrdiff_t..." >&4
$cat >try.c <<EOCP
#include <stddef.h>
int main() { ptrdiff_t x = 7; }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have ptrdiff_t."
else
 val="$undef"
 echo "You do not have ptrdiff_t."
fi
$rm_try
set d_ptrdiff_t
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_ptrdiff_t.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_flock.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_flock.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_flock: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_flock:
?S: This variable conditionally defines HAS_FLOCK if flock() is
?S: available to do file locking.
?S:.
?C:HAS_FLOCK (FLOCK):
?C: This symbol, if defined, indicates that the flock routine is
?C: available to do file locking.
?C:.
?H:#$d_flock HAS_FLOCK  /**/
?H:.
?LINT:set d_flock
: see
 if flock exists
set flock d_flock
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_flock.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorscript.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorscript.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:d_vendorscript vendorscript vendorscriptexp installvendorscript: Getfile \
 vendorbin cat Setprefixvar Oldconfig Prefixit test vendorprefix
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorscript:
?S: This variable contains the eventual value of the VENDORSCRIPT symbol.
?S: It may have a ~ on the front.
?S: The standard distribution will put nothing in this
 directory.
?S: Vendors who distribute perl may wish to place additional
?S: executable scripts in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
```

```
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorscriptexp:
?S: This variable is the ~name expanded version of vendorscript, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorscript="
?S:installvendorscript:
?S: This variable is really the same as vendorscriptexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?S:d_vendorscript:
?S: This variable conditionally defines PERL_VENDORSCRIPT.
?S:.
?C:PERL_VENDORSCRIPT:
?C: If defined, this symbol contains the name of a directory
?C: for holding vendor-supplied executable scripts.
?C: It may have a ~ on the front.
?C: The standard distribution will put nothing in this directory.
?C: Vendors who distribute perl may wish to place additional
?C: executable
 scripts in this directory with
?C:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?C: or equivalent.  See INSTALL for details.
?C:.
?C:PERL_VENDORSCRIPT_EXP:
?C: This symbol contains the ~name expanded version of VENDORSCRIPT, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#$d_vendorscript PERL_VENDORSCRIPT "$vendorscript"  /**/
?H:#$d_vendorscript PERL_VENDORSCRIPT_EXP "$vendorscriptexp"  /**/
?H:.
?LINT:change prefixvar
?LINT:set installvendorscript
: Set the vendorscript variables
case "$vendorprefix" in
") d_vendorscript="$undef"
 vendorscript="
 vendorscriptexp="
 ;;
*) d_vendorscript="$define"
 : determine where vendor-supplied scripts go.
 case "$vendorscript" in
 ") dflt=$vendorprefix/script
  $test -d $dflt || dflt=$vendorbin ;;
 *)  dflt="$vendorscript" ;;
 esac
```

```
 $cat <<EOM

The installation process will create a directory for
vendor-supplied scripts.

EOM
 fn=d~+
 rp='Pathname for the vendor-supplied scripts directory?'
 . ./getfile
 vendorscript="$ans"
 vendorscriptexp="$ansexp"
 ;;
esac
prefixvar=vendorscript
.
 ./installprefix
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/vendorscript.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorhtml3dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorhtml3dir.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorhtml3dir vendorhtml3direxp installvendorhtml3dir: html3dir Getfile \
 Oldconfig Setprefixvar Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorhtml3dir:
?S: This variable contains the name of the directory for html
?S: library pages.  It may have a ~ on the front.
?S: The standard distribution will put nothing
 in this directory.
?S: Vendors who distribute perl may wish to place their own
?S: html pages for modules and extensions in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
```

```
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorhtml3direxp:
?S: This variable is the ~name expanded version of vendorhtml3dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorhtml3dir="
?S:installvendorhtml3dir:
?S: This variable is really the same as vendorhtml3direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorhtml3dir
: Set the vendorhtml3dir variables
case "$vendorprefix" in
") vendorhtml3dir="
 vendorhtml3direxp="
 ;;
*) : determine where vendor-supplied module html pages go.
 : There is no standard location, so try to copy the previously-selected
 : directory structure for the core html pages.
 : XXX Better default
 suggestions would be welcome.
 case "$vendorhtml3dir" in
 ") dflt=`echo "$html3dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
 *) dflt=$vendorhtml3dir ;;
 esac
 case "$dflt" in
 "|' ') dflt=none ;;
 esac
 fn=dn+~
 rp='Pathname for the vendor-supplied html pages?'
 . ./getfile
 vendorhtml3dir="$ans"
 vendorhtml3direxp="$ansexp"
 ;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorhtml3dir" = "X" && vendorhtml3dir=' '
prefixvar=vendorhtml3dir
. ./installprefix
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/vendorhtml3dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2021 Nicholas Clark & H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_thread_local perl_thread_local: cat echo Setvar Compile run rm_try hint
?MAKE: -pick add $@ %<
?S:d_thread_local:
?S: This variable conditionally defines the PERL_THREAD_LOCAL symbol. In
?S: turn that gives a linkage specification for thread-local storage.
?S:.
?S:perl_thread_local:
?S: This variable gives the value for the PERL_THREAD_LOCAL symbol (when
?S: defined), which gives a linkage specification for thread-local storage.
?S:.
?C:PERL_THREAD_LOCAL:
?C: This symbol, if defined, gives a linkage specification for thread-local
?C: storage. For example, for a C11 compiler this will be _Thread_local.
?C: Beware, some compilers are sensitive to the C language standard they are
?C: told
 to parse. For example, suncc defaults to C11, so our probe will
?C: report that _Thread_local can be used. However, if the -std=c99 is later
?C: added to the compiler flags, then _Thread_local will become a syntax
?C: error. Hence it is important for these flags to be consistent between
?C: probing and use.
?C:.
?H:#$d_thread_local PERL_THREAD_LOCAL $perl_thread_local /**/
?H:.
?T:thread_local
?F:!try
?LINT:set d_thread_local
: see what flavor, if any, of thread local storage is supported
echo " "
echo "Checking to see if your system supports C11 thread local storage..."
$cat > try.c <<'EOCP'
#include <stdio.h>
#include <stdlib.h>
#include <pthread.h>

static int plus_one = 1;
static int minus_one = -1;

PROBE_MACRO int *minion;

int callback (const void *a, const void *b) {
  int val_a = *minion * *(const int *)a;
```

```
  int val_b = *minion * *(const int *)b;
  return val_a < val_b ? -1 : val_a > val_b;
}

#define SIZE 8

void *thread_function(void *arg) {
  /* thread local variables
 should start zeroed in each thread. */
  if (minion != NULL) {
      fprintf(stderr, "__thread variable started with %p, should be NULL\n",
              minion);
      exit(2);
  }
  minion = &minus_one;

  int array[SIZE];
  unsigned int i;
  for (i = 0; i < SIZE; ++i) {
      /* "Hash randomisation" - this array isn't in sorted order: */
      array[i ^ 5] = i * i;
  }

  qsort(array, SIZE, sizeof(int), callback);

  int bad = 0;
  for (i = 0; i < SIZE; ++i) {
      int want = (SIZE - 1 - i) * (SIZE - 1 - i);
      int have = array[i];
      if (want != have) {
          ++bad;
          fprintf(stderr, "array[%u] - want %i, have %i\n", i, want, have);
      }
  }
  if (bad)
      exit(3);

  return NULL;
}

int main(int argc, char **argv) {
  if (minion != NULL) {
      fprintf(stderr, "__thread variable started with %p, should be NULL\n",
              minion);
      exit(4);
  }

  minion = &plus_one;
```

```
  pthread_t
 tid;
  int result = pthread_create(&tid, NULL, thread_function, NULL);
  if (result) {
      fprintf(stderr, "pthread_create failed (%d)\n", result);
      exit(5);
  }

  result = pthread_join(tid, NULL);
  if (result) {
      fprintf(stderr, "pthread_join failed (%d)\n", result);
      exit(6);
  }

  if (minion == NULL) {
      fprintf(stderr, "__thread variable should not be NULL\n");
      exit(7);
  }
  if (!(minion == &plus_one && *minion == 1)) {
      fprintf(stderr, "__thread variable should be %d @ %p, not %d @ %p\n",
              1, &plus_one, *minion, minion);
      exit(8);
  }

  return 0;
}
EOCP

# Respect a hint (or previous) value for perl_thread_local, if there is one.
case "$perl_thread_local" in
") # Check the various possibilities, and break out on success.
 for thread_local in _Thread_local __thread; do
  set try -DPROBE_MACRO=$thread_local
  if eval $compile && $run ./try; then
   $echo "Your compiler supports $thread_local."
 >&4
   val=$define
   perl_thread_local="$thread_local";
   break;
  fi
  $echo "Your compiler does NOT support $thread_local." >&4
  val="$undef"
 done
 ;;
*thread*|*Thread*) # Some variant of thread local exists.
 echo "Keeping your $hint value of $perl_thread_local."
 val=$define
```

```
 ;;
*)  # Unrecognized previous value -- blindly trust the supplied
 # value and hope it makes sense.  Use old value for
 # d_thread_local, if there is one.
 echo "Keeping your $hint value of $perl_thread_local."
 case "$d_thread_local" in
  ") val=$define ;;
  *)  val=$d_thread_local ;;
 esac
 ;;
esac
set d_thread_local
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_thread_local.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_dld.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_dld.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:20:07  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:i_dld: Inhdr
?MAKE: -pick add $@ %<
?S:i_dld:
?S: This variable conditionally defines the I_DLD symbol, which
?S: indicates to the C program that <dld.h> (GNU dynamic loading)
?S: exists and should be included.
?S:.
?C:I_DLD:
?C: This symbol, if defined, indicates that <dld.h>
 exists and should
?C: be included before using GNU dynamic loading features.
?C:.
```

```
?H:#$i_dld I_DLD /**/
?H:.
?LINT:set i_dld
: see if dld is available
set dld.h i_dld
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_dld.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethostbyaddr_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_gethostbyaddr_r gethostbyaddr_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_gethostbyaddr_r:
?S: This variable conditionally defines the HAS_GETHOSTBYADDR_R symbol,
?S: which indicates to the C program that the gethostbyaddr_r()
?S: routine is available.
?S:.
?S:gethostbyaddr_r_proto:
?S: This variable encodes the prototype of gethostbyaddr_r.
?S: It is zero if d_gethostbyaddr_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gethostbyaddr_r
?S: is defined.
?S:.
?C:HAS_GETHOSTBYADDR_R:
?C: This symbol, if defined, indicates
 that the gethostbyaddr_r routine
?C: is available to gethostbyaddr re-entrantly.
?C:.
?C:GETHOSTBYADDR_R_PROTO:
?C: This symbol encodes the prototype of gethostbyaddr_r.
?C: It is zero if d_gethostbyaddr_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gethostbyaddr_r
?C: is defined.
?C:.
?H:#$d_gethostbyaddr_r HAS_GETHOSTBYADDR_R /**/
?H:#define GETHOSTBYADDR_R_PROTO $gethostbyaddr_r_proto /**/
?H:.
```

```
?T:try hdrs d_gethostbyaddr_r_proto
: see if gethostbyaddr_r exists
set gethostbyaddr_r d_gethostbyaddr_r
eval $inlibc
case "$d_gethostbyaddr_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_gethostbyaddr_r_proto:$usethreads" in
 ":define") d_gethostbyaddr_r_proto=define
  set d_gethostbyaddr_r_proto gethostbyaddr_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_gethostbyaddr_r_proto" in
 define)
 case "$gethostbyaddr_r_proto" in
 "|0) try='int gethostbyaddr_r(const char*, size_t, int, struct hostent*, char*,
 size_t, struct hostent**, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=I_CWISBWRE ;;
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) try='struct hostent* gethostbyaddr_r(const char*, size_t, int, struct hostent*, char*, size_t, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_CWISBWIE ;;
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) try='struct hostent* gethostbyaddr_r(const char*, size_t, int, struct hostent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_CWISBIE ;;
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) try='struct hostent* gethostbyaddr_r(const void*, size_t, int, struct hostent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_TWISBIE ;;
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) try='struct hostent* gethostbyaddr_r(const char*, int, int, struct hostent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_CIISBIE ;;
 esac
 case
 "$gethostbyaddr_r_proto" in
 "|0) try='struct hostent* gethostbyaddr_r(const char*, struct hostent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_CSBIE ;;
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) try='struct hostent* gethostbyaddr_r(const void*, struct hostent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_TSBIE ;;
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) try='int gethostbyaddr_r(const char*, size_t, int, struct hostent*, struct hostent_data*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=I_CWISD ;;
```

```
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) try='int gethostbyaddr_r(const char*, int, int, struct hostent*, struct hostent_data*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=I_CIISD ;;
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) try='int gethostbyaddr_r(const char*, int, int);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=I_CII ;;
 esac
 case
 "$gethostbyaddr_r_proto" in
 "|0) try='int gethostbyaddr_r(const void*, socklen_t, int, struct hostent*, char*, size_t, struct hostent**, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=I_TsISBWRE ;;
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) d_gethostbyaddr_r=undef
  gethostbyaddr_r_proto=0
  echo "Disabling gethostbyaddr_r, cannot determine prototype." >&4 ;;
 * ) case "$gethostbyaddr_r_proto" in
  REENTRANT_PROTO*) ;;
  *) gethostbyaddr_r_proto="REENTRANT_PROTO_$gethostbyaddr_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "gethostbyaddr_r has no prototype, not using it." >&4 ;;
  esac
  d_gethostbyaddr_r=undef
  gethostbyaddr_r_proto=0
  ;;
 esac
 ;;
*) gethostbyaddr_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_gethostbyaddr_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2009 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
?MAKE:d_inetntop: Inlibc
?MAKE: -pick add $@ %<
?S:d_inetntop:
?S: This variable conditionally defines the HAS_INETNTOP symbol,
?S: which indicates to the C program that the inet_ntop() function
?S: is available.
?S:.
?C:HAS_INETNTOP:
?C: This symbol, if defined, indicates that the inet_ntop() function
?C: is available to parse IPv4 and IPv6 strings.
?C:.
?H:#$d_inetntop HAS_INETNTOP  /**/
?H:.
?LINT:set d_inetntop
: see if inet_ntop exists
set inet_ntop d_inetntop
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_inetntop.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtoll: Inlibc d_longlong Compile cat run
?MAKE: -pick add $@ %<
?S:d_strtoll:
?S: This variable conditionally defines the HAS_STRTOLL symbol, which
?S: indicates to the C program that the strtoll() routine is available.
?S:.
?C:HAS_STRTOLL:
?C: This symbol, if defined, indicates that the strtoll routine is
?C: available to convert strings to long longs.
?C:.
?H:#$d_strtoll HAS_STRTOLL  /**/
?H:.
?T:yyy
?F:!try
: see if strtoll exists
set strtoll d_strtoll
eval $inlibc
```

```
case "$d_longlong-$d_strtoll" in
"$define-$define")
 $cat <<EOM
Checking whether your strtoll() works okay...
EOM
 $cat >try.c <<'EOCP'
#include <errno.h>
#ifdef __hpux
#define strtoll __strtoll
#endif
#ifdef __EMX__
#define strtoll
 _strtoll
#endif
#include <stdio.h>
#include <stdlib.h>
static int bad = 0;
void check(const char *s, long long ell, int een) {
 long long gll;
 errno = 0;
 gll = strtoll(s, 0, 10);
 if (!((gll == ell) && (errno == een)))
  bad++;
}
int main() {
 check(" 1",                                1LL, 0);
 check(" 0",                                0LL, 0);
 check("-1",                               -1LL, 0);
 check("-9223372036854775808", -9223372036854775808LL, 0);
 check("-9223372036854775808", -9223372036854775808LL, 0);
 check(" 9223372036854775807",  9223372036854775807LL, 0);
 check("-9223372036854775808", -9223372036854775808LL, 0);
 check(" 9223372036854775808",  9223372036854775807LL, ERANGE);
 check("-9223372036854775809", -9223372036854775808LL, ERANGE);
 if (!bad)
  printf("ok\n");
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  ok) echo "Your strtoll() seems to be working okay." ;;
  *) cat <<EOM >&4
Your strtoll() doesn't seem
 to be working okay.
EOM
```

```
    d_strtoll="$undef"
    ;;
  esac
 else
  echo "(I can't seem to compile the test program--assuming it doesn't)"
  d_strtoll="$undef"
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strtoll.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: nblock_io.U,v 3.0.1.2 1997/02/28 16:17:14 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: nblock_io.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:17:14  ram
?RCS: patch61: simplify here document for shells that can't handle them well
?RCS: patch61: force use of "startsh" at the head of the generated script
?RCS: patch61: added new files to the ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  14:13:22  ram
?RCS: patch56: created
?RCS:
?X:
?X: Simplify here document for shells that can't handle them well.
?X: (Problem reported on FreeBSD;
 it's unclear if this helps.)  --AD
?X:
?MAKE:o_nonblock eagain rd_nodata d_eofnblk: cat rm_try Compile run \
 d_open3 h_sysfile h_fcntl signal_t hint Oldconfig Setvar \
 startsh i_unistd i_fcntl i_stdlib d_fork d_pipe d_alarm
?MAKE: -pick add $@ %<
?S:o_nonblock:
?S: This variable bears the symbol value to be used during open() or fcntl()
?S: to turn on non-blocking I/O for a file descriptor. If you wish to switch
?S: between blocking and non-blocking, you may try ioctl(FIOSNBIO) instead,
?S: but that is only supported by some devices.
```

```
?S:.
?S:eagain:
?S: This variable bears the symbolic errno code set by read() when no
?S: data is present on the file and non-blocking I/O was enabled (otherwise,
?S: read() blocks naturally).
?S:.
?S:rd_nodata:
?S: This variable holds the return code from read() when no data is
?S: present. It should be -1, but some systems return 0 when O_NDELAY is
?S: used, which is a shame because you cannot make the difference between
?S: no data and an EOF.. Sigh!
?S:.
?S:d_eofnblk:
?S: This
 variable conditionally defines EOF_NONBLOCK if EOF can be seen
?S: when reading from a non-blocking I/O source.
?S:.
?C:VAL_O_NONBLOCK:
?C: This symbol is to be used during open() or fcntl(F_SETFL) to turn on
?C: non-blocking I/O for the file descriptor. Note that there is no way
?C: back, i.e. you cannot turn it blocking again this way. If you wish to
?C: alternatively switch between blocking and non-blocking, use the
?C: ioctl(FIOSNBIO) call instead, but that is not supported by all devices.
?C:.
?C:VAL_EAGAIN:
?C: This symbol holds the errno error code set by read() when no data was
?C: present on the non-blocking file descriptor.
?C:.
?C:RD_NODATA:
?C: This symbol holds the return code from read() when no data is present
?C: on the non-blocking file descriptor. Be careful! If EOF_NONBLOCK is
?C: not defined, then you can't distinguish between no data and EOF by
?C: issuing a read(). You'll have to find another way to tell for sure!
?C:.
?C:EOF_NONBLOCK:
?C: This
 symbol, if defined, indicates to the C program that a read() on
?C: a non-blocking file descriptor will return 0 on EOF, and not the value
?C: held in RD_NODATA (-1 usually, in that case!).
?C:.
?H:#define VAL_O_NONBLOCK $o_nonblock
?H:#define VAL_EAGAIN $eagain
?H:#define RD_NODATA $rd_nodata
?H:#$d_eofnblk EOF_NONBLOCK
?H:.
?T:status
?F:!try.out !try.ret !try.err !try !mtry
?LINT:use d_open3
```

```
: check for non-blocking I/O stuff
case "$h_sysfile" in
true) echo "#include <sys/file.h>" > head.c;;
*)
	case "$h_fcntl" in
	true) echo "#include <fcntl.h>" > head.c;;
	*) echo "#include <sys/fcntl.h>" > head.c;;
	esac
	;;
esac
echo " "
echo "Figuring out the flag used by open() for non-blocking I/O..." >&4
case "$o_nonblock" in
")
 $cat head.c > try.c
 $cat >>try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_fcntl I_FCNTL
#ifdef I_FCNTL
#include <fcntl.h>
#endif
int main() {
#ifdef O_NONBLOCK
 printf("O_NONBLOCK\n");
 exit(0);
#endif
#ifdef
 O_NDELAY
 printf("O_NDELAY\n");
 exit(0);
#endif
?X: Stevens "Advanced Programming in the UNIX Environment" page 364 mentions
?X: the FNDELAY symbol, used in 4.3BSD (source: Paul Marquess).
#ifdef FNDELAY
 printf("FNDELAY\n");
 exit(0);
#endif
 exit(0);
}
EOCP
 set try
 if eval $compile_ok; then
  o_nonblock=`$run ./try`
  case "$o_nonblock" in
```

```
  ") echo "I can't figure it out, assuming O_NONBLOCK will do.";;
  *) echo "Seems like we can use $o_nonblock.";;
  esac
 else
  echo "(I can't compile the test program; pray O_NONBLOCK is right!)"
 fi
 ;;
*) echo "Using $hint value $o_nonblock.";;
esac
$rm_try

echo " "
echo "Let's see what value errno gets from read() on a $o_nonblock file..." >&4
case "$eagain" in
")
 case "$d_fork:$d_pipe:$d_alarm" in
 define:define:define)
 $cat head.c > try.c
 $cat >>try.c <<EOCP
#include <errno.h>
#include <sys/types.h>
#include <signal.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_fcntl
 I_FCNTL
#ifdef I_FCNTL
#include <fcntl.h>
#endif
#define MY_O_NONBLOCK $o_nonblock
#ifndef errno  /* XXX need better Configure test */
extern int errno;
#endif
#$i_unistd I_UNISTD
#ifdef I_UNISTD
#include <unistd.h>
#endif
#include <string.h>
$signal_t blech(int x) { exit(3); }
EOCP
 $cat >> try.c <<'EOCP'
int main()
{
 int pd[2];
 int pu[2];
```

```
 char buf[1];
 char string[100];
 int ret;

 ret = pipe(pd); /* Down: child -> parent */
 if (ret != 0)
  exit(3);
 ret = pipe(pu); /* Up: parent -> child */
 if (ret != 0)
  exit(3);
 if (0 != fork()) {
  close(pd[1]); /* Parent reads from pd[0] */
  close(pu[0]); /* Parent writes (blocking) to pu[1] */
#ifdef F_SETFL
  if (-1 == fcntl(pd[0], F_SETFL, MY_O_NONBLOCK))
   exit(1);
#else
  exit(4);
#endif
  signal(SIGALRM, blech);
  alarm(5);
  if ((ret = read(pd[0], buf, 1)) > 0) /* Nothing to read! */
   exit(2);
  sprintf(string, "%d\n", ret);
  ret = write(2, string, strlen(string));
  if (ret != strlen(string))
   exit(3);
  alarm(0);
#ifdef
 EAGAIN
  if (errno == EAGAIN) {
   printf("EAGAIN\n");
   goto ok;
  }
#endif
#ifdef EWOULDBLOCK
  if (errno == EWOULDBLOCK)
   printf("EWOULDBLOCK\n");
#endif
 ok:
  ret = write(pu[1], buf, 1); /* Unblocks child, tell it to close our pipe */
  if (ret != 1)
   exit(3);
  sleep(2);    /* Give it time to close our pipe */
  alarm(5);
  ret = read(pd[0], buf, 1); /* Should read EOF */
  alarm(0);
  sprintf(string, "%d\n", ret);
```

```
 ret = write(4, string, strlen(string));
 if (ret != strlen(string))
  exit(3);
 exit(0);
 }

 close(pd[0]);   /* We write to pd[1] */
 close(pu[1]);   /* We read from pu[0] */
 ret = read(pu[0], buf, 1); /* Wait for parent to signal us we may continue */
 if (ret != 1)
  exit(3);
 close(pd[1]);   /* Pipe pd is now fully closed! */
 exit(0);    /* Bye bye, thank you for playing! */
}
EOCP
 set try
 if eval $compile_ok; then
?X: Use script to avoid the possible 'alarm call' message
  echo "$startsh" >mtry
  echo "$run ./try >try.out 2>try.ret 4>try.err
 || exit 4" >>mtry
  chmod +x mtry
  $run ./mtry >/dev/null 2>&1
  case $? in
  0) eagain=`$cat try.out`;;
  1) echo "Could not perform non-blocking setting!";;
  2) echo "I did a successful read() for something that was not there!";;
  3) echo "Hmm... non-blocking I/O does not seem to be working!";;
  4) echo "Could not find F_SETFL!";;
  *) echo "Something terribly wrong happened during testing.";;
  esac
  rd_nodata=`$cat try.ret`
  echo "A read() system call with no data present returns $rd_nodata."
  case "$rd_nodata" in
  0|-1) ;;
  *)
   echo "(That's peculiar, fixing that to be -1.)"
   rd_nodata=-1
   ;;
  esac
  case "$eagain" in
  ")
   echo "Forcing errno EAGAIN on read() with no data available."
   eagain=EAGAIN
   ;;
  *)
   echo "Your read() sets errno to $eagain when no data is available."
   ;;
```

```
 esac
 status=`$cat try.err`
 case "$status" in
 0) echo "And it correctly returns 0 to signal EOF.";;
 -1) echo "But it also returns -1 to signal EOF, so be careful!";;
 *)
echo "However, your read() returns '$status' on EOF??";;
 esac
 val="$define"
 if test "$status" = "$rd_nodata"; then
  echo "WARNING: you can't distinguish between EOF and no data!"
  val="$undef"
 fi
else
 echo "I can't compile the test program--assuming errno EAGAIN will do."
 eagain=EAGAIN
fi
;;
*) echo "Can't figure out how to test this--assuming errno EAGAIN will do."
 eagain=EAGAIN
 val="$define"
 ;;
esac
set d_eofnblk
eval $setvar
;;
*)
 echo "Using $hint value $eagain."
 echo "Your read() returns $rd_nodata when no data is present."
 case "$d_eofnblk" in
 "$define") echo "And you can see EOF because read() returns 0.";;
 "$undef") echo "But you can't see EOF status from read() returned value.";;
 *)
?X: Should not happen, but if it does, assume the worst!
  echo "(Assuming you can't see EOF status from read anyway.)"
  d_eofnblk=$undef
  ;;
 esac
 ;;
esac
$rm_try head.c mtry
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/nblock_io.U
No license file was found, but licenses were detected in source scan.

?RCS: Id

```
?RCS:
?RCS: Copyright (c) 2017, 2019, Karl Williamson
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_wctype: Inhdr
?MAKE: -pick add $@ %<
?S:i_wctype:
?S: This variable conditionally defines the I_WCTYPE symbol,
?S: that indicates whether a C program may include <wctype.h>.
?S:.
?C:I_WCTYPE:
?C: This symbol, if defined, indicates that <wctype.h> exists.
?C:.
?H:#$i_wctype I_WCTYPE  /**/
?H:.
?LINT:set i_wctype
: see if this system has wctype.h
set wctype.h i_wctype
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_wctype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getprotobynumber_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getprotobynumber_r getprotobynumber_r_proto: Inlibc Protochk \
 Hasproto i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getprotobynumber_r:
?S: This variable conditionally defines the HAS_GETPROTOBYNUMBER_R symbol,
?S: which indicates to the C program that the getprotobynumber_r()
?S: routine is available.
?S:.
?S:getprotobynumber_r_proto:
?S: This variable encodes the prototype of getprotobynumber_r.
```

```
?S: It is zero if d_getprotobynumber_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getprotobynumber_r
?S: is defined.
?S:.
?C:HAS_GETPROTOBYNUMBER_R:
?C: This
 symbol, if defined, indicates that the getprotobynumber_r routine
?C: is available to getprotobynumber re-entrantly.
?C:.
?C:GETPROTOBYNUMBER_R_PROTO:
?C: This symbol encodes the prototype of getprotobynumber_r.
?C: It is zero if d_getprotobynumber_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getprotobynumber_r
?C: is defined.
?C:.
?H:#$d_getprotobynumber_r HAS_GETPROTOBYNUMBER_R /**/
?H:#define GETPROTOBYNUMBER_R_PROTO $getprotobynumber_r_proto /**/
?H:.
?T:try hdrs d_getprotobynumber_r_proto
: see if getprotobynumber_r exists
set getprotobynumber_r d_getprotobynumber_r
eval $inlibc
case "$d_getprotobynumber_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getprotobynumber_r_proto:$usethreads" in
 ":define") d_getprotobynumber_r_proto=define
  set d_getprotobynumber_r_proto getprotobynumber_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getprotobynumber_r_proto" in
 define)
 case "$getprotobynumber_r_proto"
 in
 "|0) try='int getprotobynumber_r(int, struct protoent*, char*, size_t, struct protoent**);'
 ./protochk "$extern_C $try" $hdrs && getprotobynumber_r_proto=I_ISBWR ;;
 esac
 case "$getprotobynumber_r_proto" in
 "|0) try='struct protoent* getprotobynumber_r(int, struct protoent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getprotobynumber_r_proto=S_ISBI ;;
 esac
 case "$getprotobynumber_r_proto" in
 "|0) try='int getprotobynumber_r(int, struct protoent*, struct protoent_data*);'
 ./protochk "$extern_C $try" $hdrs && getprotobynumber_r_proto=I_ISD ;;
 esac
 case "$getprotobynumber_r_proto" in
 "|0) d_getprotobynumber_r=undef
```

```
  getprotobynumber_r_proto=0
  echo "Disabling getprotobynumber_r, cannot determine prototype." >&4 ;;
 * ) case "$getprotobynumber_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getprotobynumber_r_proto="REENTRANT_PROTO_$getprotobynumber_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getprotobynumber_r
 has no prototype, not using it." >&4 ;;
  esac
  d_getprotobynumber_r=undef
  getprotobynumber_r_proto=0
  ;;
 esac
 ;;
*) getprotobynumber_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getprotobynumber_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_lrintl: Inlibc
?MAKE: -pick add $@ %<
?S:d_lrintl:
?S: This variable conditionally defines the HAS_LRINTL symbol, which
?S: indicates to the C program that the lrintl() routine is available
?S: to return the integral value closest to a long double (according
?S: to the current rounding mode).
?S:.
?C:HAS_LRINTL:
?C: This symbol, if defined, indicates that the lrintl routine is
?C: available to return the integral value closest to a long double
?C: (according to the current rounding mode).
?C:.
?H:#$d_lrintl HAS_LRINTL  /**/
?H:.
?LINT:set d_lrintl
: see if lrintl exists
set lrintl d_lrintl
```

```
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_lrintl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Instruct.U,v 3.0.1.3 1997/02/28 15:02:55 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Instruct.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:02:55  ram
?RCS: patch61: logname / whoami sequence rewritten to use case
?RCS:
?RCS: Revision 3.0.1.2  1995/02/15  14:11:34  ram
?RCS: patch51: author name now appears at the end of the paragraph (WED)
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:12:05  ram
?RCS: patch45: now documents the & escape to turn -d on at the read prompt
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:04  ram
?RCS: Baseline for
 dist 3.0 netwide release.
?RCS:
?X:
?X: This unit spew out the directions that we want everyone to read.  I try to
?X: keep the first "pagefull" much less than a page since they don't know it
?X: isn't going to go shooting off the top of the screen, and we don't want
?X: to panic them yet.
?X:
?MAKE:Instruct: Myread Configdir Devel contains
?MAKE: -pick wipe $@ %<
?T:user needman firsttime
: general instructions
needman=true
firsttime=true
user=`(logname) 2>/dev/null`
case "$user" in
") user=`whoami 2>&1`;;
esac
if $contains "^$user\$" ../.config/instruct >/dev/null 2>&1; then
```

```
 firsttime=false
 echo " "
 rp='Would you like to see the instructions?'
 dflt=n
 . ./myread
 case "$ans" in
 [yY]*) ;;
 *) needman=false;;
 esac
fi
if $needman; then
 cat <<EOH

This installation shell script will examine your system and ask you questions
to determine how the <PACKAGENAME> package should be installed. If you get
stuck on a question, you may use a ! shell escape to start a subshell or
execute a
 command.  Many of the questions will have default answers in square
brackets; typing carriage return will give you the default.

On some of the questions which ask for file or directory names you are allowed
to use the ~name construct to specify the login directory belonging to "name",
even if you don't have a shell which knows about that.  Questions where this is
allowed will be marked "(~name ok)".

EOH
 rp="
 dflt='Type carriage return to continue'
 . ./myread
 cat <<'EOH'

The prompter used in this script allows you to use shell variables and
backticks in your answers.  You may use $1, $2, etc...  to refer to the words
in the default answer, as if the default line was a set of arguments given to a
script shell.  This means you may also use $* to repeat the whole default line,
so you do not have to re-type everything to add something to the default.

Every time there is a substitution, you will have to confirm.  If there is an
error (e.g. an unmatched backtick), the default answer
 will remain unchanged
and you will be prompted again.

If you are in a hurry, you may run 'Configure -d'.  This will bypass nearly all
the questions and use the computed defaults (or the previous answers if there
was already a config.sh file). Type 'Configure -h' for a list of options.
You may also start interactively and then answer '& -d' at any prompt to turn
on the non-interactive behaviour for the remainder of the execution.
```

```
EOH
 . ./myread
 cat <<EOH

Much effort has been expended to ensure that this shell script will run on any
Unix system.  If despite that it blows up on yours, your best bet is to edit
Configure and run it again.  If you can't run Configure for some reason,
you'll have to generate a config.sh file by hand.  Whatever problems you
have, let me (<MAINTLOC>) know how I blew it.

This installation script affects things in two ways:

1) it may do direct variable substitutions on some of the files included
  in this kit.
2) it builds a config.h file for inclusion in
 C programs.  You may edit
  any of these files as the need arises after running this script.

If you make a mistake on a question, there is no easy way to back up to it
currently.  The easiest thing to do is to edit config.sh and rerun all the SH
files.  Configure will offer to let you do this before it runs the SH files.

EOH
?X: In case they played with the prompter...
 dflt='Type carriage return to continue'
 . ./myread
 case "$firsttime" in
 true) echo $user >>../.config/instruct;;
 esac
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Instruct.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: uidtype.U,v 3.0.1.3 1994/08/29 16:33:25 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: uidtype.U,v $
?RCS: Revision 3.0.1.3  1994/08/29  16:33:25  ram
```

```
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20  07:09:36  ram
?RCS: patch30: comment for uidtype referred to the obsoleted symbol
?RCS:
?RCS: Revision 3.0.1.1  1994/05/13  15:28:27  ram
?RCS: patch27: made conformant to its gidtype.U companion
?RCS: patch27: question now explicitly mentions getuid()
?RCS:
?RCS: Revision 3.0  1993/08/18
  12:09:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:uidtype: Myread Typedef Findhdr
?MAKE: -pick add $@ %<
?S:uidtype:
?S: This variable defines Uid_t to be something like uid_t, int,
?S: ushort, or whatever type is used to declare user ids in the kernel.
?S:.
?C:Uid_t (UIDTYPE):
?C: This symbol holds the type used to declare user ids in the kernel.
?C: It can be int, ushort, uid_t, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Uid_t $uidtype  /* UID type */
?H:.
?T:xxx
: see what type uids are declared as in the kernel
echo " "
echo "Looking for the type for user ids returned by getuid()."
set uid_t uidtype xxx stdio.h sys/types.h
eval $typedef
case "$uidtype" in
xxx)
 xxx=`./findhdr sys/user.h`
 set `grep '_ruid;' "$xxx" 2>/dev/null` unsigned short
 case $1 in
 unsigned) dflt="$1 $2" ;;
 *) dflt="$1" ;;
 esac
 ;;
*) dflt="$uidtype";;
esac
case "$uidtype" in
uid_t) echo "uid_t found." ;;
*) rp="What
 is the type for user ids returned by getuid()?"
 . ./myread
```

```
 uidtype="$ans"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/uidtype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: randbits.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:19:29  ram
?RCS: patch61: added <unistd.h> and <stdlib.h> to the C program test
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:38  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit has been somewhat made obsolete with creation of the
?X: randfunc function (which finds out how to generate random
?X: numbers between 0 and 1.
?X:
?MAKE:randbits: cat rm Myread cc i_unistd i_stdlib
?MAKE: -pick add $@ %<
?S:randbits:
?S: This
 variable contains the eventual value of the RANDBITS symbol,
?S: which indicates to the C program how many bits of random number
?S: the rand() function produces.
?S:.
?C:RANDBITS:
?C: This symbol contains the number of bits of random number the rand()
?C: function produces.  Usual values are 15, 16, and 31.
?C:.
?H:#define RANDBITS $randbits  /**/
?H:.
: check for size of random number generator
echo " "
case "$randbits" in
```

```
")
 echo "Checking to see how many bits your rand function produces..." >&4
 $cat >try.c <<EOCP
#$i_unistd I_UNISTD
#$i_stdlib I_STDLIB
#include <stdio.h>
#ifdef I_UNISTD
#  include <unistd.h>
#endif
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
EOCP
 $cat >>try.c <<'EOCP'
int main()
{
 register int i;
 register unsigned long tmp;
 register unsigned long max = 0L;

 for (i = 1000; i; i--) {
  tmp = (unsigned long)rand();
  if (tmp > max) max = tmp;
 }
 for (i = 0; max; i++)
  max /= 2;
 printf("%d\n",i);
}
EOCP
 if $cc -o try try.c >/dev/null 2>&1 ; then
  dflt=`try`
 else
  dflt='?'
  echo
 "(I can't seem to compile the test program...)"
 fi
 ;;
*)
 dflt="$randbits"
 ;;
esac
rp='How many bits does your rand() function produce?'
. ./myread
randbits="$ans"
$rm -f try.c try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/dist/U/randbits.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_lseekproto: Hasproto i_systypes i_unistd
?MAKE: -pick add $@ %<
?S:d_lseekproto:
?S: This variable conditionally defines the HAS_LSEEK_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the lseek() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_LSEEK_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the lseek() function.  Otherwise, it is up
?C: to the program to supply one.  A good guess is
?C:  extern
 off_t lseek(int, off_t, int);
?C:.
?H:#$d_lseekproto HAS_LSEEK_PROTO /**/
?H:.
?LINT:set d_lseekproto
: see if prototype for lseek is available
echo " "
set d_lseekproto lseek $i_systypes sys/types.h $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/d_lseekproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setlocale_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
```

```
?RCS:
?MAKE:d_setlocale_r setlocale_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_locale extern_C
?MAKE: -pick add $@ %<
?S:d_setlocale_r:
?S: This variable conditionally defines the HAS_SETLOCALE_R symbol,
?S: which indicates to the C program that the setlocale_r()
?S: routine is available.
?S:.
?S:setlocale_r_proto:
?S: This variable encodes the prototype of setlocale_r.
?S: It is zero if d_setlocale_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setlocale_r
?S: is defined.
?S:.
?C:HAS_SETLOCALE_R:
?C: This symbol, if defined, indicates that the setlocale_r routine
?C: is
 available to setlocale re-entrantly.
?C:.
?C:SETLOCALE_R_PROTO:
?C: This symbol encodes the prototype of setlocale_r.
?C: It is zero if d_setlocale_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setlocale_r
?C: is defined.
?C:.
?H:#$d_setlocale_r HAS_SETLOCALE_R /**/
?H:#define SETLOCALE_R_PROTO $setlocale_r_proto /**/
?H:.
?T:try hdrs d_setlocale_r_proto
: see if setlocale_r exists
set setlocale_r d_setlocale_r
eval $inlibc
case "$d_setlocale_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_locale locale.h"
 case "$d_setlocale_r_proto:$usethreads" in
 ":define") d_setlocale_r_proto=define
  set d_setlocale_r_proto setlocale_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_setlocale_r_proto" in
 define)
 case "$setlocale_r_proto" in
 "|0) try='int setlocale_r(int, const char*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && setlocale_r_proto=I_ICBI ;;
 esac
```

```
 case "$setlocale_r_proto" in
 "|0) d_setlocale_r=undef
  setlocale_r_proto=0
  echo
 "Disabling setlocale_r, cannot determine prototype." >&4 ;;
 * ) case "$setlocale_r_proto" in
  REENTRANT_PROTO*) ;;
  *) setlocale_r_proto="REENTRANT_PROTO_$setlocale_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "setlocale_r has no prototype, not using it." >&4 ;;
  esac
  d_setlocale_r=undef
  setlocale_r_proto=0
  ;;
 esac
 ;;
*) setlocale_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_setlocale_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_pwd.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:10:57  ram
?RCS: patch56: use setvar so hint file values can override our guesses (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:03:27  ram
?RCS: patch23: had forgotten cppminus in cppstdin test (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:25  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?X:
?X: This unit checks whether there is a pwd system or not
?X:
?MAKE:i_pwd d_pwquota d_pwage d_pwchange d_pwclass d_pwexpire d_pwcomment:
 \
 contains rm cppstdin cppflags cppminus Inhdr Findhdr Setvar
?MAKE: -pick add $@ %<
?S:i_pwd:
?S: This variable conditionally defines I_PWD, which indicates
?S: to the C program that it should include <pwd.h>.
?S:.
?S:d_pwquota:
?S: This varaible conditionally defines PWQUOTA, which indicates
?S: that struct passwd contains pw_quota.
?S:.
?S:d_pwage:
?S: This varaible conditionally defines PWAGE, which indicates
?S: that struct passwd contains pw_age.
?S:.
?S:d_pwchange:
?S: This varaible conditionally defines PWCHANGE, which indicates
?S: that struct passwd contains pw_change.
?S:.
?S:d_pwclass:
?S: This varaible conditionally defines PWCLASS, which indicates
?S: that struct passwd contains pw_class.
?S:.
?S:d_pwexpire:
?S: This varaible conditionally defines PWEXPIRE, which indicates
?S: that struct passwd contains pw_expire.
?S:.
?S:d_pwcomment:
?S: This varaible conditionally defines PWCOMMENT, which indicates
?S: that struct passwd contains pw_comment.
?S:.
?C:I_PWD:
?C: This symbol,
 if defined, indicates to the C program that it should
?C: include <pwd.h>.
?C:.
?C:PWQUOTA:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_quota.
?C:.
?C:PWAGE:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_age.
```

```
?C:.
?C:PWCHANGE:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_change.
?C:.
?C:PWCLASS:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_class.
?C:.
?C:PWEXPIRE:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_expire.
?C:.
?C:PWCOMMENT:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_comment.
?C:.
?H:#$i_pwd I_PWD  /**/
?H:#$d_pwquota PWQUOTA /**/
?H:#$d_pwage PWAGE /**/
?H:#$d_pwchange PWCHANGE /**/
?H:#$d_pwclass PWCLASS /**/
?H:#$d_pwexpire PWEXPIRE /**/
?H:#$d_pwcomment PWCOMMENT /**/
?H:.
?LINT: set i_pwd d_pwquota
 d_pwage d_pwchange d_pwclass d_pwexpire d_pwcomment
?T:xxx
: see if this is a pwd.h system
set pwd.h i_pwd
eval $inhdr

case "$i_pwd" in
$define)
 xxx=`./findhdr pwd.h`
 $cppstdin $cppflags $cppminus < $xxx >$$.h

 if $contains 'pw_quota' $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_pwquota
 eval $setvar

 if $contains 'pw_age' $$.h >/dev/null 2>&1; then
  val="$define"
 else
```

```
 val="$undef"
fi
set d_pwage
eval $setvar

if $contains 'pw_change' $$.h >/dev/null 2>&1; then
 val="$define"
else
 val="$undef"
fi
set d_pwchange
eval $setvar

if $contains 'pw_class' $$.h >/dev/null 2>&1; then
 val="$define"
else
 val="$undef"
fi
set d_pwclass
eval $setvar

if $contains 'pw_expire' $$.h >/dev/null 2>&1; then
 val="$define"
else
 val="$undef"
fi
set d_pwexpire
eval $setvar

if $contains 'pw_comment' $$.h >/dev/null 2>&1; then
 val="$define"
else
 val="$undef"
fi
set d_pwcomment
eval $setvar

$rm -f $$.h
;;
*)
val="$undef";
set
d_pwquota; eval $setvar
set d_pwage; eval $setvar
set d_pwchange; eval $setvar
set d_pwclass; eval $setvar
set d_pwexpire; eval $setvar
set d_pwcomment; eval $setvar
```

```
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_pwd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_select.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_select.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_select: Inlibc
?MAKE: -pick add $@ %<
?S:d_select:
?S: This variable conditionally defines HAS_SELECT if select() is
?S: available to select active file descriptors. A <sys/time.h>
?S: inclusion may be necessary for the timeout field.
?S:.
?C:HAS_SELECT:
?C: This symbol, if defined, indicates that the select routine is
?C: available
 to select active file descriptors. If the timeout field
?C: is used, <sys/time.h> may need to be included.
?C:.
?H:#$d_select HAS_SELECT /**/
?H:.
?LINT:set d_select
: see if select exists
set select d_select
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_select.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysndir.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysndir.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:33  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_sysndir: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysndir:
?S: This variable conditionally defines the I_SYS_NDIR symbol, and indicates
?S: whether a C program should include <sys/ndir.h>.
?S:.
?C:I_SYS_NDIR (I_SYSNDIR):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/ndir.h>.
?C:.
?H:#$i_sysndir
 I_SYS_NDIR /**/
?H:.
?LINT:set i_sysndir
: see if this is an sysndir system
set sys/ndir.h i_sysndir
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sysndir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethostent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_gethostent_r gethostent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_gethostent_r:
```

```
?S: This variable conditionally defines the HAS_GETHOSTENT_R symbol,
?S: which indicates to the C program that the gethostent_r()
?S: routine is available.
?S:.
?S:gethostent_r_proto:
?S: This variable encodes the prototype of gethostent_r.
?S: It is zero if d_gethostent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gethostent_r
?S: is defined.
?S:.
?C:HAS_GETHOSTENT_R:
?C: This symbol, if defined, indicates that the gethostent_r routine
?C: is
 available to gethostent re-entrantly.
?C:.
?C:GETHOSTENT_R_PROTO:
?C: This symbol encodes the prototype of gethostent_r.
?C: It is zero if d_gethostent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gethostent_r
?C: is defined.
?C:.
?H:#$d_gethostent_r HAS_GETHOSTENT_R /**/
?H:#define GETHOSTENT_R_PROTO $gethostent_r_proto /**/
?H:.
?T:try hdrs d_gethostent_r_proto
: see if gethostent_r exists
set gethostent_r d_gethostent_r
eval $inlibc
case "$d_gethostent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_gethostent_r_proto:$usethreads" in
 ":define") d_gethostent_r_proto=define
  set d_gethostent_r_proto gethostent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_gethostent_r_proto" in
 define)
 case "$gethostent_r_proto" in
 "|0) try='int gethostent_r(struct hostent*, char*, size_t, struct hostent**, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostent_r_proto=I_SBWRE ;;
 esac
 case "$gethostent_r_proto"
 in
 "|0) try='int gethostent_r(struct hostent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostent_r_proto=I_SBIE ;;
 esac
```

```
 case "$gethostent_r_proto" in
 "|0) try='struct hostent* gethostent_r(struct hostent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostent_r_proto=S_SBIE ;;
 esac
 case "$gethostent_r_proto" in
 "|0) try='struct hostent* gethostent_r(struct hostent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && gethostent_r_proto=S_SBI ;;
 esac
 case "$gethostent_r_proto" in
 "|0) try='int gethostent_r(struct hostent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && gethostent_r_proto=I_SBI ;;
 esac
 case "$gethostent_r_proto" in
 "|0) try='int gethostent_r(struct hostent*, struct hostent_data*);'
 ./protochk "$extern_C $try" $hdrs && gethostent_r_proto=I_SD ;;
 esac
 case "$gethostent_r_proto" in
 "|0) d_gethostent_r=undef
  gethostent_r_proto=0
  echo "Disabling gethostent_r, cannot determine prototype." >&4 ;;
 * ) case
 "$gethostent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) gethostent_r_proto="REENTRANT_PROTO_$gethostent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "gethostent_r has no prototype, not using it." >&4 ;;
  esac
  d_gethostent_r=undef
  gethostent_r_proto=0
  ;;
 esac
 ;;
*) gethostent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_gethostent_r.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Oldconfig.U,v 3.0.1.10 1997/02/28 15:06:39 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Oldconfig.U,v $
?RCS: Revision 3.0.1.10  1997/02/28  15:06:39  ram
?RCS: patch61: added support for src.U
?RCS: patch61: new OSNAME define
?RCS: patch61: can now sense new OSes
?RCS:
?RCS: Revision 3.0.1.9  1995/07/25  13:40:51  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.8  1995/05/12  12:04:18  ram
?RCS: patch54: config.sh reload logic now knows about new -K switch
?RCS: patch54: cleaned up and extended osvers for DEC
 OSF/1 (ADO)
?RCS: patch54: added MachTen detection (ADO)
?RCS:
?RCS: Revision 3.0.1.7  1995/02/15  14:13:41  ram
?RCS: patch51: adapted osvers computation for AIX (ADO)
?RCS:
?RCS: Revision 3.0.1.6  1995/01/30  14:27:15  ram
?RCS: patch49: unit Options.U now exports file optdef.sh, not a variable
?RCS: patch49: update code for myuname changed (WED)
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:15:36  ram
?RCS: patch45: added quotes around the INITPROG variable (ADO)
?RCS: patch45: allows variable overriding after config file loading
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  15:57:05  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: merged with the version used for perl5's Configure (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/05/06  14:24:17  ram
?RCS: patch23: added support for osf1 hints
?RCS: patch23: new support for solaris and i386 systems (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:05:02  ram
?RCS: patch16: added post-processing on myuname for Xenix targets
?RCS:
 patch16: message proposing config.sh defaults made consistent
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  15:56:32  ram
?RCS: patch10: force use of config.sh when -d option is used (WAD)
```

```
?RCS: patch10: complain about non-existent hint files (WAD)
?RCS: patch10: added Options dependency for fastread variable
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:12  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit tries to remember what we did last time we ran Configure, mostly
?X: for the sake of setting defaults.
?X:
?MAKE:Oldconfig hint myuname osname osvers: Instruct Myread uname \
 Checkcc Mksymlinks run \
 sh awk sed test cat rm lns tr n c contains Loc Options Tr src trnl ln
?MAKE: -pick wipe $@ %<
?S:myuname:
?S: The output of 'uname -a' if available, otherwise the hostname.
?S: The whole thing is then lower-cased and slashes and single quotes are
?S: removed.
?S:.
?S:hint:
?S: Gives the type of hints used for previous answers. May be one of
?S: "default",
 "recommended" or "previous".
?S:.
?S:osname:
?S: This variable contains the operating system name (e.g. sunos,
?S: solaris, hpux, etc.).  It can be useful later on for setting
?S: defaults.  Any spaces are replaced with underscores.  It is set
?S: to a null string if we can't figure it out.
?S:.
?S:osvers:
?S: This variable contains the operating system version (e.g.
?S: 4.1.3, 5.2, etc.).  It is primarily used for helping select
?S: an appropriate hints file, but might be useful elsewhere for
?S: setting defaults.  It is set to '' if we can't figure it out.
?S: We try to be flexible about how much of the version number
?S: to keep, e.g. if 4.1.1, 4.1.2, and 4.1.3 are essentially the
?S: same for this package, hints files might just be os_4.0 or
?S: os_4.1, etc., not keeping separate files for each little release.
?S:.
?C:OSNAME:
?C: This symbol contains the name of the operating system, as determined
?C: by Configure.  You shouldn't rely on it too much; the specific
?C: feature tests
 from Configure are generally more reliable.
?C:.
?C:OSVERS:
?C: This symbol contains the version of the operating system, as determined
```

```
?C: by Configure.  You shouldn't rely on it too much; the specific
?C: feature tests from Configure are generally more reliable.
?C:.
?H:#define OSNAME "$osname"  /**/
?H:#define OSVERS "$osvers"  /**/
?H:.
?F:!config.sh
?T:tmp tmp_n tmp_c tmp_sh file
?T:xxxxfile xxxfile xxfile xfile hintfile newmyuname
?T:tans _ isesix INITPROG DJGPP
?D:osname="
?LINT:change n c sh
?LINT:extern targetarch
?LINT:extern hostarch
?LINT:change hostarch
?LINT:extern is_os2
: Try to determine whether config.sh was made on this system
case "$config_sh" in
")
?X: indentation wrong on purpose--RAM
?X: Leave a white space between first two '(' for ksh. The sub-shell is needed
?X: on some machines to avoid the error message when uname is not found; e.g.
?X: old SUN-OS 3.2 would not execute hostname in (uname -a || hostname). Sigh!
?X: Now not using a subshell but instead $test.
myuname=`$uname
 -a 2>/dev/null`
$test -z "$myuname" && myuname=`hostname 2>/dev/null`
# Downcase everything to avoid ambiguity.
# Remove slashes and single quotes so we can use parts of this in
# directory and file names.
# Remove newlines so myuname is sane to use elsewhere.
# tr '[A-Z]' '[a-z]' would not work in EBCDIC
# because the A-Z/a-z are not consecutive.
myuname=`echo $myuname | $sed -e "s,['/],,g" | \
 ./tr '[A-Z]' '[a-z]' | $tr $trnl ' '`
?X: Save the value we just computed to reset myuname after we get done here.
newmyuname="$myuname"
dflt=n
case "$knowitall" in
")
 if test -f ../config.sh; then
  if $contains myuname= ../config.sh >/dev/null 2>&1; then
   eval "`grep myuname= ../config.sh`"
  fi
  if test "X$myuname" = "X$newmyuname"; then
   dflt=y
  fi
 fi
```

```
 ;;
*) dflt=y;;
esac

@if {test -d ../hints}
: Get old answers from old config file if Configure was run on the
: same system, otherwise use the hints.
hint=default
cd ..
?X: Since we are now at the root of the source
 tree, we must use $src
?X: to access the sources and not $rsrc. See src.U for details...
if test -f config.sh; then
 echo " "
 rp="I see a config.sh file.  Shall I use it to set the defaults?"
 . UU/myread
 case "$ans" in
 n*|N*) echo "OK, I'll ignore it."
  mv config.sh config.sh.old
  myuname="$newmyuname"
  ;;
 *)  echo "Fetching default answers from your old config.sh file..." >&4
  tmp_n="$n"
  tmp_c="$c"
  tmp_sh="$sh"
  . ./config.sh
  cp config.sh UU
  n="$tmp_n"
  c="$tmp_c"
  : Older versions did not always set $sh.  Catch re-use of such
  : an old config.sh.
  case "$sh" in
  ") sh="$tmp_sh" ;;
  esac
  hint=previous
  ;;
 esac
fi
. ./UU/checkcc
if test ! -f config.sh; then
 $cat <<EOM

First time through, eh?  I have some defaults handy for some systems
that need some extra help getting the Configure answers right:

EOM
 (cd $src/hints; ls -C *.sh) | $sed 's/\.sh/   /g' >&4
 dflt="
```

```
: Half the following guesses are probably wrong... If you have better
: tests or hints,
please send them to <MAINTLOC>
: The metaconfig authors would also appreciate a copy...
$test -f /irix && osname=irix
$test -f /xenix && osname=sco_xenix
$test -f /dynix && osname=dynix
$test -f /dnix && osname=dnix
$test -f /lynx.os && osname=lynxos
$test -f /unicos && osname=unicos && osvers=`$uname -r`
$test -f /unicosmk && osname=unicosmk && osvers=`$uname -r`
$test -f /unicosmk.ar && osname=unicosmk && osvers=`$uname -r`
$test -f /bin/mips && /bin/mips && osname=mips
$test -d /usr/apollo/bin && osname=apollo
$test -f /etc/saf/_sactab && osname=svr4
$test -d /usr/include/minix && osname=minix && osvers=`$uname -r`
$test -f /system/gnu_library/bin/ar.pm && osname=vos
$test -f /sys/utilities/MultiView && osname=amigaos
if $test -d /MachTen -o -d /MachTen_Folder; then
?X:  MachTen uname -a output looks like
?X:  xxx 4 0.0 Macintosh
?X:  MachTen /sbin/version output looks like
?X:  MachTen 4.0 Mon Aug 28 10:18:00 1995
?X:  MachTen 3.x had the 'version' command in /usr/etc/version.
  osname=machten
  if
 $test -x /sbin/version; then
   osvers=`/sbin/version | $awk '{print $2}' |
   $sed -e 's/[A-Za-z]$//'`
  elif $test -x /usr/etc/version; then
   osvers=`/usr/etc/version | $awk '{print $2}' |
   $sed -e 's/[A-Za-z]$//'`
  else
   osvers="$2.$3"
  fi
 fi

 $test -f /sys/posix.dll &&
  $test -f /usr/bin/what &&
  set X `/usr/bin/what /sys/posix.dll` &&
  $test "$3" = UWIN &&
  osname=uwin &&
  osvers="$5"

?X: If we have uname, we already computed a suitable uname -a output,
?X: and it lies in $myuname.
 if $test -f $uname; then
  set X $myuname
```

```
  shift

  case "$5" in
  fps*) osname=fps ;;
  mips*)
   case "$4" in
   umips) osname=umips ;;
   *) osname=mips ;;
   esac;;
  [23]100) osname=mips ;;
?X: Interactive Unix.
  i386*)
   tmp=`/bin/uname -X 2>/dev/null|awk '/3\.2v[45]/{ print $(NF) }'`
   if $test "$tmp" != "" -a "$3" = "3.2" -a -f '/etc/systemid'; then
    osname='sco'
    osvers=$tmp
   elif $test -f /etc/kconfig; then
    osname=isc
    if
 test "$lns" = "$ln -s"; then
     osvers=4
    elif $contains _SYSV3 /usr/include/stdio.h > /dev/null 2>&1 ; then
     osvers=3
    elif $contains _POSIX_SOURCE /usr/include/stdio.h > /dev/null 2>&1 ; then
     osvers=2
    fi
   fi
   tmp=''
   ;;
?X: MS-DOS djgpp uname -a output looks like:
?X: ms-dos xxx 6 22 pc
?X:  $1 is the "dos flavor" (need not be "ms-dos").
?X:  $2 is the node name
?X:  $3 and $4 are version/subversion
?X:  $5 is always "pc", but that might not be unique to DJGPP.
?X: (e.g. Solaris_x86 has $5 = i86pc, which doesn't actually conflict,
?X: but it's close enough that I can easily imagine other vendors also
?X: using variants of pc* in $5.)
?X:  The "DJGPP" environment variable is always set when djgpp is active.
  pc*)
   if test -n "$DJGPP"; then
    osname=dos
    osvers=djgpp
   fi
   ;;
  esac

  case "$1" in
```

```
  aix) osname=aix
?X: aix 4.1 uname -a output looks like
?X:  AIX  foo  1 4 000123456789
?X: where $4 is the major release number and $3 is the (minor)
 version.
?X: More detail on the version is available with the oslevel command.
?X: in 3.2.x, it output a string (see case statements below).  In 4.1,
?X: it puts out something like  4.1.1.0
   tmp=`( (oslevel) 2>/dev/null || echo "not found") 2>&1`
   case "$tmp" in
   # oslevel can fail with:
   # oslevel: Unable to acquire lock.
   *not\ found) osvers="$4"."$3" ;;
   '<3240'|'<>3240') osvers=3.2.0 ;;
   '=3240'|'>3240'|'<3250'|'<>3250') osvers=3.2.4 ;;
   '=3250'|'>3250') osvers=3.2.5 ;;
   *) osvers=$tmp;;
   esac
   ;;
  bitrig) osname=bitrig
   osvers="$3"
   ;;
  bsd386) osname=bsd386
   osvers=`$uname -r`
   ;;
  cygwin*) osname=cygwin
   osvers="$3"
   ;;
  *dc.osx) osname=dcosx
   osvers="$3"
   ;;
  dnix) osname=dnix
   osvers="$3"
   ;;
  domainos) osname=apollo
   osvers="$3"
   ;;
  dgux) osname=dgux
   osvers="$3"
   ;;
  dragonfly) osname=dragonfly
   osvers="$3"
   ;;
?X:  uname -a returns
?X:  DYNIX/ptx xxx 4.0 V4.1.2 i386
  dynixptx*) osname=dynixptx
   osvers=`echo
```

```
 "$4"|sed 's/^v//'`
  ;;
 freebsd) osname=freebsd
  osvers="$3" ;;
 genix) osname=genix ;;
?X: GNU/Hurd uname -a gives something like:
?X: GNU foo 0.3 GNU-Mach 1.4/Hurd-0.3 i386-AT386 GNU
?X: GNU gnu 0.3 GNUmach-1.2/Hurd-0.3 i386-AT386 GNU
?X: Note the hostname on the second one, which will fool Configure
?X: into using the SysV case!
 gnu) osname=gnu
  osvers="$3" ;;
?X: HP-UX uname -a gives something like
?X: HP-UX foobar B.10.20 A 9000/735 2016483812 two-user license
?X: Preserve the full 10.20 string instead of the previous plain '10'.
?X:  Thanks to Graham Barr.    --AD 6/30/1998
 hp*) osname=hpux
  osvers=`echo "$3" | $sed 's,.*\.\([0-9]*\.[0-9]*\),\1,'`
  ;;
 irix*) osname=irix
  case "$3" in
  4*) osvers=4 ;;
  5*) osvers=5 ;;
  *) osvers="$3" ;;
  esac
  ;;
 linux) osname=linux
  case "$3" in
  *) osvers="$3" ;;
  esac
  $test -f /system/lib/libandroid.so && osname=linux-android
  ;;
 MiNT) osname=mint
  ;;
 minix) osname=minix
  osvers=`$uname -r`
  ;;
 netbsd*)
osname=netbsd
  osvers="$3"
  ;;
 news-os) osvers="$3"
  case "$3" in
  4*) osname=newsos4 ;;
  *) osname=newsos ;;
  esac
  ;;
 nonstop-ux) osname=nonstopux ;;
```

```
 openbsd) osname=openbsd
  osvers="$3"
  ;;
 os2) osname=os2
  osvers="$4"
  ;;
 POSIX-BC | posix-bc ) osname=posix-bc
  osvers="$3"
  ;;
 powerux | power_ux | powermax_os | powermaxos | \
 powerunix | power_unix) osname=powerux
  osvers="$3"
  ;;
 qnx) osname=qnx
  osvers="$4"
  ;;
 solaris) osname=solaris
  case "$3" in
  5*) osvers=`echo $3 | $sed 's/^5/2/g'` ;;
  *) osvers="$3" ;;
  esac
  ;;
 sunos) osname=sunos
  case "$3" in
  5*) osname=solaris
   osvers=`echo $3 | $sed 's/^5/2/g'` ;;
  *) osvers="$3" ;;
  esac
  ;;
 titanos) osname=titanos
  case "$3" in
  1*) osvers=1 ;;
  2*) osvers=2 ;;
  3*) osvers=3 ;;
  4*) osvers=4 ;;
  *) osvers="$3" ;;
  esac
  ;;
 ultrix) osname=ultrix
  osvers="$3"
  ;;
 osf1|mls+) case "$5" in
   alpha)
?X: DEC OSF/1 myuname
 -a output looks like:  osf1 xxxx t3.2 123.4 alpha
?X: where the version number can be something like [xvt]n.n
     osname=dec_osf
?X: sizer knows the minor minor version: the letter
```

```
    osvers=`sizer -v | awk -FUNIX '{print $2}' | awk '{print $1}' |  tr '[A-Z]' '[a-z]' | sed 's/^[xvt]//'`
    case "$osvers" in
    [1-9].[0-9]*) ;;
    *) osvers=`echo "$3" | sed 's/^[xvt]//'` ;;
    esac
    ;;
  hp*) osname=hp_osf1 ;;
  mips) osname=mips_osf1 ;;
?X: hp and mips were unsupported Technology Releases -- ADO, 24/10/94
  esac
  ;;
  # UnixWare 7.1.2 is known as Open UNIX 8
  openunix|unixware) osname=svr5
   osvers="$4"
   ;;
  uts) osname=uts
   osvers="$3"
   ;;
  vos) osvers="$3"
   ;;
  $2) case "$osname" in
   *isc*) ;;
   *freebsd*) ;;
   svr*)
    : svr4.x or possibly later
    case "svr$3" in
    ${osname}*)
     osname=svr$3
     osvers=$4
     ;;
    esac
    case "$osname" in
    svr4.0)
     : Check for ESIX
     if test -f /stand/boot ; then
      eval `grep '^INITPROG=[a-z/0-9]*$'
/stand/boot`
      if test -n "$INITPROG" -a -f "$INITPROG"; then
   isesix=`strings -a $INITPROG|grep 'ESIX SYSTEM V/386 Release 4.0'`
       if test -n "$isesix"; then
        osname=esix4
       fi
      fi
     fi
     ;;
    esac
    ;;
   *) if test -f /etc/systemid; then
```

```
    osname=sco
    set `echo $3 | $sed 's/\./ /g'` $4
    if $test -f $src/hints/sco_$1_$2_$3.sh; then
     osvers=$1.$2.$3
    elif $test -f $src/hints/sco_$1_$2.sh; then
     osvers=$1.$2
    elif $test -f $src/hints/sco_$1.sh; then
     osvers=$1
    fi
   else
    case "$osname" in
    ") : Still unknown.  Probably a generic Sys V.
     osname="sysv"
     osvers="$3"
     ;;
    esac
   fi
   ;;
  esac
  ;;
 *) case "$osname" in
  ") : Still unknown.  Probably a generic BSD.
   osname="$1"
   osvers="$3"
   ;;
  esac
  ;;
 esac
else
?X: Try to identify sony's NEWS-OS (BSD unix)
 if test -f /vmunix -a -f $src/hints/news_os.sh; then
  (what /vmunix | UU/tr '[A-Z]'
'[a-z]') > UU/kernel.what 2>&1
  if $contains news-os UU/kernel.what >/dev/null 2>&1; then
   osname=news_os
  fi
  $rm -f UU/kernel.what
?X: Maybe it's OS/2 or DOS or something similar
 elif test -d c:/. -o -n "$is_os2" ; then
  set X $myuname
  osname=os2
  osvers="$5"
 fi
fi

     case "$targetarch" in
     ") ;;
     *)  hostarch=$osname
```

```
        case "$targetarch" in
            nto*|*-nto-*)
                # Will load qnx.sh, which should change osname to nto
                osname=qnx
                osvers=''
                ;;
            *linux-android*)
                # Catch arm-linux-androideabi, mipsel-linux-android,
                # and i686-linux-android
                osname=linux-android
                osvers=''
                ;;
            *linux*)
                # Something like arm-linux-gnueabihf is really just
                # plain linux.
                osname=linux

                osvers=''
                ;;
            *solaris*|*sunos*)
                osname=solaris
                # XXX perhaps we should just assume
                # osvers to be 2, or maybe take the value
                # from targetarch. Using $run before the
                # hints are run is somewhat icky.
                set X `$run $uname -a 2>/dev/null`
                shift
                case "$3" in
                    5*) osvers=`echo $3 | $sed 's/^5/2/g'` ;;
                    *)  osvers="$3" ;;
                esac
                ;;
            *)
    osname=`echo $targetarch|sed 's,^[^-]*-,,'`
    osvers=''
            ;;
        esac
        ;;
     esac

: Now look for a hint file osname_osvers, unless one has been
: specified already.
case "$hintfile" in
''|' ')
 file=`echo "${osname}_${osvers}" | $sed -e 's%\.%_%g' -e 's%_$%%'`
 : Also try without trailing minor version
numbers.
 xfile=`echo $file | $sed -e 's%_[^_]*$%%'`
```

```
 xxfile=`echo $xfile | $sed -e 's%_[^_]*$%%'`
 xxxfile=`echo $xxfile | $sed -e 's%_[^_]*$%%'`
 xxxxfile=`echo $xxxfile | $sed -e 's%_[^_]*$%%'`
 case "$file" in
 ") dflt=none ;;
 *)  case "$osvers" in
  ") dflt=$file
   ;;
  *)  if $test -f $src/hints/$file.sh ; then
    dflt=$file
   elif $test -f $src/hints/$xfile.sh ; then
    dflt=$xfile
   elif $test -f $src/hints/$xxfile.sh ; then
    dflt=$xxfile
   elif $test -f $src/hints/$xxxfile.sh ; then
    dflt=$xxxfile
   elif $test -f $src/hints/$xxxxfile.sh ; then
    dflt=$xxxxfile
   elif $test -f "$src/hints/${osname}.sh" ; then
    dflt="${osname}"
   else
    dflt=none
   fi
   ;;
  esac
  ;;
 esac
 if $test -f Policy.sh ; then
  case "$dflt" in
  *Policy*) ;;
  none) dflt="Policy" ;;
  *) dflt="Policy $dflt" ;;
  esac
 fi
 ;;
*)
 dflt=`echo $hintfile | $sed 's/\.sh$//'`
 ;;
esac

if $test -f Policy.sh ; then
 $cat <<EOM

There's also
 a Policy hint file available, which should make the
site-specific (policy) questions easier to answer.
EOM
```

```
fi

$cat <<EOM

You may give one or more space-separated answers, or "none" if appropriate.
If you have a handcrafted Policy.sh file or a Policy.sh file generated by a
previous run of Configure, you may specify it as well as or instead of
OS-specific hints.  If hints are provided for your OS, you should use them:
although Perl can probably be built without hints on many platforms, using
hints often improve performance and may enable features that Configure can't
set up on its own. If there are no hints that match your OS, specify "none";
DO NOT give a wrong version or a wrong OS.

EOM

rp="Which of these apply, if any?"
. UU/myread
tans=$ans
for file in $tans; do
 if $test X$file = XPolicy -a -f Policy.sh; then
  . Policy.sh
  $cat Policy.sh >> UU/config.sh
 elif $test -f $src/hints/$file.sh; then
  . $src/hints/$file.sh
  $cat $src/hints/$file.sh >> UU/config.sh
 elif
$test X"$tans" = X -o X"$tans" = Xnone ; then
  : nothing
 else
  : Give one chance to correct a possible typo.
  echo "$file.sh does not exist"
  dflt=$file
  rp="hint to use instead?"
  . UU/myread
  for file in $ans; do
   if $test -f "$src/hints/$file.sh"; then
    . $src/hints/$file.sh
    $cat $src/hints/$file.sh >> UU/config.sh
   elif $test X$ans = X -o X$ans = Xnone ; then
    : nothing
   else
    echo "$file.sh does not exist -- ignored."
   fi
  done
 fi
done

hint=recommended
```

```
 : Remember our hint file for later.
 if $test -f "$src/hints/$file.sh" ; then
  hintfile="$file"
 else
  hintfile="
 fi
fi
cd UU
?X: From here on, we must use $rsrc instead of $src
@else
: Get old answers, if there is a config file out there
hint=default
hintfile="
if test -f ../config.sh; then
 echo " "
 rp="I see a config.sh file.  Shall I use it to set the defaults?"
 . ./myread
 case "$ans" in
 n*|N*) echo "OK, I'll ignore it.";;
 *)  echo "Fetching default answers from
 your old config.sh file..." >&4
  tmp_n="$n"
  tmp_c="$c"
  . ../config.sh
  cp ../config.sh .
  n="$tmp_n"
  c="$tmp_c"
  hint=previous
  ;;
 esac
fi
@end
?X: remember, indentation is wrong--RAM
;;
*)
 echo " "
 echo "Fetching default answers from $config_sh..." >&4
 tmp_n="$n"
 tmp_c="$c"
 cd ..
?X: preserve symbolic links, if any
 cp $config_sh config.sh 2>/dev/null
 chmod +w config.sh
 . ./config.sh
 cd UU
 cp ../config.sh .
 n="$tmp_n"
 c="$tmp_c"
```

```
 hint=previous
 ;;
esac
. ./optdef.sh

: Restore computed paths
for file in $loclist $trylist; do
 eval $file="\$_$file"
done

@if osname || osvers
cat << EOM

Configure uses the operating system name and version to set some defaults.
The default value is probably right if the name rings a bell. Otherwise,
since spelling matters for me, either accept the default or answer "none"
to leave it blank.

EOM
@end
@if osname
case "$osname" in
 "|' ')
  case "$hintfile" in
  "|' '|none) dflt=none ;;
  *)  dflt=`echo $hintfile | $sed -e 's/\.sh$//'
 -e 's/_.*$//'` ;;
  esac
  ;;
 *) dflt="$osname" ;;
esac
rp="Operating system name?"
. ./myread
case "$ans" in
none)  osname=" ;;
*) osname=`echo "$ans" | $sed -e 's/[  ][ ]*/_/g' | ./tr '[A-Z]' '[a-z]'`;;
esac
@end
@if osvers
@if osname
echo " "
@end
case "$osvers" in
 "|' ')
  case "$hintfile" in
  "|' '|none) dflt=none ;;
  *) dflt=`echo $hintfile | $sed -e 's/\.sh$//' -e 's/^[^_]*//'`
   dflt=`echo $dflt | $sed -e 's/^_//' -e 's/_/./g'`
```

```
   case "$dflt" in
   "|' ') dflt=none ;;
   esac
   ;;
  esac
  ;;
 *) dflt="$osvers" ;;
esac
rp="Operating system version?"
. ./myread
case "$ans" in
none)  osvers=" ;;
*) osvers="$ans" ;;
esac

@end

. ./posthint.sh
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Oldconfig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: perlxv.U,v 1.1 2000/08/31 17:53:56 jhi Exp jhi $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:ivtype uvtype nvtype ivsize uvsize nvsize \
     i8type u8type i16type u16type i32type u32type i64type u64type \
     i8size u8size i16size u16size i32size u32size i64size u64size \
     d_nv_preserves_uv nv_preserves_uv_bits nv_overflows_integers_at \
     d_nv_zero_is_allbits_zero: \
 echo rm_try use64bitint d_quad quadtype uquadtype usequadmath \
 d_longdbl uselongdouble longdblsize doublesize i_quadmath \
 shortsize intsize longsize i_stdlib libs gccversion \
 cat Compile i_inttypes test signal_t run
?MAKE: -pick add $@ %<
?S:ivtype:
?S: This variable contains the C type used for Perl's IV.
?S:.
?S:uvtype:
?S: This variable contains the C type
 used for Perl's UV.
?S:.
```

?S:nvtype:
?S: This variable contains the C type used for Perl's NV.
?S:.
?S:i8type:
?S: This variable contains the C type used for Perl's I8.
?S:.
?S:u8type:
?S: This variable contains the C type used for Perl's U8.
?S:.
?S:i16type:
?S: This variable contains the C type used for Perl's I16.
?S:.
?S:u16type:
?S: This variable contains the C type used for Perl's U16.
?S:.
?S:i32type:
?S: This variable contains the C type used for Perl's I32.
?S:.
?S:u32type:
?S: This variable contains the C type used for Perl's U32.
?S:.
?S:i64type:
?S: This variable contains the C type used for Perl's I64.
?S:.
?S:u64type:
?S: This variable contains the C type used for Perl's U64.
?S:.
?S:ivsize:
?S: This variable is the size of an IV in bytes.
?S:.
?S:uvsize:
?S: This variable is the size of a UV in bytes.
?S:.
?S:i8size:
?S: This variable is the size of an I8 in bytes.
?S:.
?S:u8size:
?S: This variable is the size of an U8 in bytes.
?S:.
?S:i16size:
?S: This variable is the
 size of an I16 in bytes.
?S:.
?S:u16size:
?S: This variable is the size of an U16 in bytes.
?S:.
?S:i32size:
?S: This variable is the size of an I32 in bytes.

```
?S:.
?S:u32size:
?S: This variable is the size of an U32 in bytes.
?S:.
?S:i64size:
?S: This variable is the size of an I64 in bytes.
?S:.
?S:u64size:
?S: This variable is the size of an U64 in bytes.
?S:.
?S:nvsize:
?S: This variable is the size of a Perl NV in bytes.
?S: Note that some floating point formats have unused bytes.
?S:.
?S:d_nv_preserves_uv:
?S: This variable indicates whether a variable of type nvtype
?S: can preserve all the bits a variable of type uvtype.
?S:.
?S:nv_preserves_uv_bits:
?S: This variable indicates how many of bits type uvtype
?S: a variable nvtype can preserve.
?S:.
?S:nv_overflows_integers_at:
?S: This variable gives the largest integer value that NVs can hold
?S: as a constant floating point expression.
?S: If it could not be determined, it holds the value 0.
?S:.
?S:d_nv_zero_is_allbits_zero:
?S: This
 variable indicates whether a variable of type nvtype
?S: stores 0.0 in memory as all bits zero.
?S:.
?C:IVTYPE:
?C: This symbol defines the C type used for Perl's IV.
?C:.
?C:UVTYPE:
?C: This symbol defines the C type used for Perl's UV.
?C:.
?C:I8TYPE:
?C: This symbol defines the C type used for Perl's I8.
?C:.
?C:U8TYPE:
?C: This symbol defines the C type used for Perl's U8.
?C:.
?C:I16TYPE:
?C: This symbol defines the C type used for Perl's I16.
?C:.
?C:U16TYPE:
```

```
?C: This symbol defines the C type used for Perl's U16.
?C:.
?C:I32TYPE:
?C: This symbol defines the C type used for Perl's I32.
?C:.
?C:U32TYPE:
?C: This symbol defines the C type used for Perl's U32.
?C:.
?C:I64TYPE:
?C: This symbol defines the C type used for Perl's I64.
?C:.
?C:U64TYPE:
?C: This symbol defines the C type used for Perl's U64.
?C:.
?C:NVTYPE:
?C: This symbol defines the C type used for Perl's NV.
?C:.
?C:IVSIZE:
?C: This symbol contains the sizeof(IV).
?C:.
?C:UVSIZE:
?C: This symbol contains the
 sizeof(UV).
?C:.
?C:I8SIZE:
?C: This symbol contains the sizeof(I8).
?C:.
?C:U8SIZE:
?C: This symbol contains the sizeof(U8).
?C:.
?C:I16SIZE:
?C: This symbol contains the sizeof(I16).
?C:.
?C:U16SIZE:
?C: This symbol contains the sizeof(U16).
?C:.
?C:I32SIZE:
?C: This symbol contains the sizeof(I32).
?C:.
?C:U32SIZE:
?C: This symbol contains the sizeof(U32).
?C:.
?C:I64SIZE:
?C: This symbol contains the sizeof(I64).
?C:.
?C:U64SIZE:
?C: This symbol contains the sizeof(U64).
?C:.
```

```
?C:NVSIZE:
?C: This symbol contains the sizeof(NV).
?C: Note that some floating point formats have unused bytes.
?C: The most notable example is the x86* 80-bit extended precision
?C: which comes in byte sizes of 12 and 16 (for 32 and 64 bit
?C: platforms, respectively), but which only uses 10 bytes.
?C: Perl compiled with -Duselongdouble on x86* is like this.
?C:.
?C:NV_PRESERVES_UV:
?C: This symbol, if defined, indicates that a variable of type NVTYPE
?C: can preserve all the bits of a variable of type UVTYPE.
?C:.
?C:NV_PRESERVES_UV_BITS:
?C: This
 symbol contains the number of bits a variable of type NVTYPE
?C: can preserve of a variable of type UVTYPE.
?C:.
?C:NV_OVERFLOWS_INTEGERS_AT:
?C: This symbol gives the largest integer value that NVs can hold. This
?C: value + 1.0 cannot be stored accurately. It is expressed as constant
?C: floating point expression to reduce the chance of decimal/binary
?C: conversion issues. If it can not be determined, the value 0 is given.
?C:.
?C:NV_ZERO_IS_ALLBITS_ZERO:
?C: This symbol, if defined, indicates that a variable of type NVTYPE
?C: stores 0.0 in memory as all bits zero.
?C:.
?H:#define IVTYPE  $ivtype  /**/
?H:#define UVTYPE  $uvtype  /**/
?H:#define I8TYPE  $i8type  /**/
?H:#define U8TYPE  $u8type  /**/
?H:#define I16TYPE  $i16type /**/
?H:#define U16TYPE  $u16type /**/
?H:#define I32TYPE  $i32type /**/
?H:#define U32TYPE  $u32type /**/
?H:?%<:#ifdef HAS_QUAD
?H:?%<:#define I64TYPE  $i64type /**/
?H:?%<:#define U64TYPE  $u64type /**/
?H:?%<:#endif
?H:#define NVTYPE  $nvtype  /**/
?H:#define IVSIZE  $ivsize  /**/
?H:#define UVSIZE  $uvsize  /**/
?H:#define I8SIZE  $i8size  /**/
?H:#define U8SIZE  $u8size  /**/
?H:#define I16SIZE  $i16size /**/
?H:#define U16SIZE  $u16size /**/
?H:#define I32SIZE  $i32size /**/
?H:#define U32SIZE  $u32size /**/
```

```
?H:?%<:#ifdef
 HAS_QUAD
?H:?%<:#define I64SIZE  $i64size /**/
?H:?%<:#define U64SIZE  $u64size /**/
?H:?%<:#endif
?H:#define NVSIZE  $nvsize  /**/
?H:#$d_nv_preserves_uv NV_PRESERVES_UV
?H:#define NV_PRESERVES_UV_BITS $nv_preserves_uv_bits
?H:#define NV_OVERFLOWS_INTEGERS_AT ($nv_overflows_integers_at)
?H:#$d_nv_zero_is_allbits_zero NV_ZERO_IS_ALLBITS_ZERO
?H:?%<:#if UVSIZE == 8
?H:?%<:#   ifdef BYTEORDER
?H:?%<:#       if BYTEORDER == 0x1234
?H:?%<:#           undef BYTEORDER
?H:?%<:#           define BYTEORDER 0x12345678
?H:?%<:#       else
?H:?%<:#           if BYTEORDER == 0x4321
?H:?%<:#               undef BYTEORDER
?H:?%<:#               define BYTEORDER 0x87654321
?H:?%<:#
    endif
?H:?%<:#       endif
?H:?%<:#   endif
?H:?%<:#endif
?H:.
?T:xxx
?T:d
?F:!try
: Check basic sizes
echo " "
$echo "Choosing the C types to be used for Perl's internal types..." >&4

case "$use64bitint:$d_quad:$quadtype" in
define:define:?*)
 ivtype="$quadtype"
 uvtype="$uquadtype"
 ivsize=8
 uvsize=8
 ;;
*) ivtype="long"
 uvtype="unsigned long"
 ivsize=$longsize
 uvsize=$longsize
 ;;
esac

case "$uselongdouble:$d_longdbl" in
define:define)
```

```
 nvtype="long double"
 nvsize=$longdblsize
 ;;
*) nvtype=double
 nvsize=$doublesize
 ;;
esac

case "$usequadmath:$i_quadmath" in
define:define)
 nvtype="__float128"
 nvsize=16
 case "$libs" in
 *quadmath*) ;;
 *) $cat <<EOM >&4

*** You requested the use of the quadmath library, but you
*** do not seem to have the quadmath library installed.
*** Cannot continue, aborting.
EOM
   exit 1
   ;;
 esac
 ;;
define:*) $cat <<EOM >&4

*** You requested the use of the quadmath library, but you
*** do not seem to have the required header, <quadmath.h>.
EOM
  case "$gccversion" in
 [23].*|4.[0-5]*)
  $cat <<EOM >&4
*** Your gcc looks a bit old:
*** $gccversion
EOM
   ;;
 ")
  $cat <<EOM >&4
*** You are not running a gcc.
EOM
   ;;
 esac
 $cat <<EOM >&4
*** For the quadmath library you need at least gcc 4.6.
*** Cannot continue, aborting.
EOM
 exit 1
 ;;
```

```
esac

$echo "(IV will be "$ivtype", $ivsize bytes)"
$echo "(UV will be "$uvtype", $uvsize bytes)"
$echo "(NV will be "$nvtype", $nvsize bytes)"

$cat >try.c <<EOCP
#$i_inttypes I_INTTYPES
#ifdef I_INTTYPES
#include <inttypes.h>
#endif
#include <stdio.h>
int main() {
#ifdef INT8
  int8_t i =  INT8_MAX;
 uint8_t u = UINT8_MAX;
 printf("int8_t\n");
#endif
#ifdef INT16
  int16_t i =  INT16_MAX;
 uint16_t u = UINT16_MAX;
 printf("int16_t\n");
#endif
#ifdef INT32
  int32_t i =  INT32_MAX;
 uint32_t u = UINT32_MAX;
 printf("int32_t\n");
#endif
}
EOCP

i8type="signed char"
u8type="unsigned char"
i8size=1
u8size=1

case "$i16type" in
") case "$shortsize" in
 2) i16type=short
  u16type="unsigned
 short"
  i16size=$shortsize
  u16size=$shortsize
  ;;
 esac
 ;;
esac
case "$i16type" in
```

```
") set try -DINT16
 if eval $compile; then
  case "`$run ./try`" in
  int16_t)
   i16type=int16_t
   u16type=uint16_t
   i16size=2
   u16size=2
   ;;
  esac
 fi
 ;;
esac
case "$i16type" in
") if $test $shortsize -ge 2; then
  i16type=short
  u16type="unsigned short"
  i16size=$shortsize
  u16size=$shortsize
 fi
 ;;
esac

case "$i32type" in
") case "$longsize" in
 4) i32type=long
  u32type="unsigned long"
  i32size=$longsize
  u32size=$longsize
  ;;
 *) case "$intsize" in
  4) i32type=int
   u32type="unsigned int"
   i32size=$intsize
   u32size=$intsize
   ;;
  esac
  ;;
 esac
 ;;
esac
case "$i32type" in
") set try -DINT32
 if eval $compile; then
  case "`$run ./try`" in
  int32_t)
   i32type=int32_t
   u32type=uint32_t
```

```
   i32size=4
   u32size=4
   ;;
  esac
 fi
 ;;
esac
case "$i32type" in
") if $test $intsize -ge 4; then
  i32type=int
  u32type="unsigned int"
  i32size=$intsize
  u32size=$intsize
 fi
 ;;
esac

case
 "$i64type" in
") case "$d_quad:$quadtype" in
 define:?*)
  i64type="$quadtype"
  u64type="$uquadtype"
  i64size=8
  u64size=8
  ;;
 esac
 ;;
esac

$echo "Checking how many bits of your UVs your NVs can preserve..." >&4
$cat <<EOP >try.c
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <sys/types.h>
#include <signal.h>
#ifdef SIGFPE
/* volatile so that the compiler has to store it out to memory */
volatile int bletched = 0;
$signal_t blech(int s) { bletched = 1; }
#endif
int main() {
   $uvtype u = 0;
   $nvtype d;
   int     n = 8 * $uvsize;
```

```
   int     i;
#ifdef SIGFPE
   signal(SIGFPE, blech);
#endif

   for (i = 0; i < n; i++) {
     u = u << 1 | ($uvtype)1;
     d = ($nvtype)u;
     if (($uvtype)d != u)
       break;
     if (d <= 0)
 break;
     d = ($nvtype)(u - 1);
     if (($uvtype)d != (u - 1))
       break;
#ifdef SIGFPE
     if (bletched)
 break;
#endif
   }
   printf("%d\n",
 ((i == n) ? -n : i));
   exit(0);
}
EOP
set try

d_nv_preserves_uv="$undef"
if eval $compile; then
 nv_preserves_uv_bits="`$run ./try`"
fi
case "$nv_preserves_uv_bits" in
\-[1-9]*)
 nv_preserves_uv_bits=`expr 0 - $nv_preserves_uv_bits`
 $echo "Your NVs can preserve all $nv_preserves_uv_bits bits of your UVs."  >&4
 d_nv_preserves_uv="$define"
 ;;
[1-9]*) $echo "Your NVs can preserve only $nv_preserves_uv_bits bits of your UVs."  >&4
 d_nv_preserves_uv="$undef" ;;
*) $echo "Can't figure out how many bits your NVs preserve." >&4
 nv_preserves_uv_bits="0" ;;
esac
$rm_try

$echo "Checking to find the largest integer value your NVs can hold..." >&4
$cat <<EOP >try.c
#include <stdio.h>
```

```
typedef $nvtype NV;

int
main() {
 NV value = 2;
 int count = 1;

 while(count < 256) {
   /* volatile so that the compiler has to store it out to memory */
   volatile NV up = value + 1.0;
   volatile NV negated = -value;
   volatile NV down = negated - 1.0;
   volatile NV got_up = up -
 value;
   int up_good = got_up == 1.0;
   int got_down = down - negated;
   int down_good = got_down == -1.0;

   if (down_good != up_good) {
     fprintf(stderr,
       "Inconsistency - up %d %f; down %d %f; for 2**%d (%.20f)\n",
       up_good, (double) got_up, down_good, (double) got_down,
       count, (double) value);
     return 1;
   }
   if (!up_good) {
     while (1) {
 if (count > 8) {
   count -= 8;
   fputs("256.0", stdout);
 } else {
   count--;
   fputs("2.0", stdout);
 }
 if (!count) {
   puts("");
   return 0;
 }
 fputs("*", stdout);
     }
   }
   value *= 2;
   ++count;
 }
 fprintf(stderr, "Cannot overflow integer range, even at 2**%d (%.20f)\n",
   count, (double) value);
 return 1;
}
```

```
EOP
set try

nv_overflows_integers_at='0'
if eval $compile; then
   xxx="`$run ./try`"
   case "$?" in
 0)
     case "$xxx" in
  2*)  cat >&4 <<EOM
The largest integer your NVs can preserve is equal to $xxx
EOM
      nv_overflows_integers_at="$xxx"
      ;;
  *)  cat
 >&4 <<EOM
Cannot determine the largest integer value your NVs can hold, unexpected output
'$xxx'
EOM
      ;;
     esac
     ;;
 *)  cat >&4 <<EOM
Cannot determine the largest integer value your NVs can hold
EOM
     ;;
   esac
fi
$rm_try

$echo "Checking whether NV 0.0 is all bits zero in memory..." >&4
$cat <<EOP >try.c
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <string.h>
#include <sys/types.h>
#include <signal.h>
#ifdef SIGFPE
/* volatile so that the compiler has to store it out to memory */
volatile int bletched = 0;
$signal_t blech(int s) { bletched = 1; }
#endif

int checkit($nvtype d, const char *where) {
   void *v = &d;
```

```
  unsigned char *p = (unsigned char *)v;
  unsigned char *end = p + sizeof(d);
  int fail = 0;

  while (p < end)
 fail += *p++;

  if (!fail)
 return 0;

  p = (unsigned char *)v;
  printf("No - %s: 0x", where);
  while (p < end)
 printf ("%02X", *p++);
  printf("\n");
  return 1;
}

int main(int
 argc, char **argv) {
  $nvtype d = 0.0;
  int fail = 0;
  fail += checkit(d, "0.0");

  /* The compiler shouldn't be assuming that bletched is 0  */
  d = bletched;

  fail += checkit(d, "bleched");

#ifdef SIGFPE
  signal(SIGFPE, blech);
#endif

  /* Paranoia - the compiler should have no way of knowing that ANSI says
     that argv[argc] will always be NULL.  Actually, if it did assume this it
     would be buggy, as this is C and main() can be called from elsewhere in
     the program.  */
  d = argv[argc] ? 1 : 0;

  if (d) {
 printf("Odd argv[argc]=%p, d=%g\n", argv[argc], d);
  }

  fail += checkit(d, "ternary");

  memset(&d, sizeof(d), argv[argc] ? 1 : 0);

  if (d != 0.0) {
```

```
 printf("No - memset doesn't give 0.0\n");
 /* This might just blow up:  */
 printf("(gives %g)\n", d);
 return 1;
   }

#ifdef SIGFPE
   if (bletched) {
 printf("No - something bleched\n");
 return 1;
   }
#endif
   if (fail) {
     printf("No - %d fail(s)\n",
 fail);
     return 1;
   }
   printf("Yes\n");
   return 0;
}
EOP
set try

d_nv_zero_is_allbits_zero="$undef"
if eval $compile; then
   xxx="`$run ./try`"
   case "$?" in
 0)
     case "$xxx" in
  Yes)  cat >&4 <<EOM
0.0 is represented as all bits zero in memory
EOM
      d_nv_zero_is_allbits_zero="$define"
      ;;
  *)  cat >&4 <<EOM
0.0 is not represented as all bits zero in memory
EOM
      d_nv_zero_is_allbits_zero="$undef"
      ;;
     esac
     ;;
 *)  cat >&4 <<EOM
0.0 is not represented as all bits zero in memory
EOM
     d_nv_zero_is_allbits_zero="$undef"
     ;;
   esac
fi
```

```
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/perlxv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_shm.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_shm: test d_shmctl d_shmget d_shmat d_shmdt Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_shm:
?S: This variable conditionally defines the HAS_SHM symbol, which
?S: indicates that the entire shm*(2) library is present.
?S:.
?C:HAS_SHM:
?C: This symbol, if defined, indicates that the entire shm*(2) library is
?C: supported.
?C:.
?H:#$d_shm HAS_SHM  /**/
?H:.
?T:h_shm
?LINT:set d_shm
:
 see how much of the 'shm*(2)' library is present.
h_shm=true
echo " "
case "$d_shmctl$d_shmget$d_shmat$d_shmdt" in
*"$undef"*) h_shm=false;;
esac
: we could also check for sys/ipc.h ...
if $h_shm && $test `./findhdr sys/shm.h`; then
 echo "You have the full shm*(2) library." >&4
 val="$define"
else
 echo "You don't have the full shm*(2) library." >&4
```

```
 val="$undef"
fi
set d_shm
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_shm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_inetaton.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Spider Boardman
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_inetaton.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:36:35  ram
?RCS: patch61: created
?RCS:
?MAKE:d_inetaton: Inlibc
?MAKE: -pick add $@ %<
?S:d_inetaton:
?S: This variable conditionally defines the HAS_INET_ATON symbol, which
?S: indicates to the C program that the inet_aton() function is available
?S: to parse IP address "dotted-quad" strings.
?S:.
?C:HAS_INET_ATON:
?C: This symbol, if defined, indicates
 to the C program that the
?C: inet_aton() function is available to parse IP address "dotted-quad"
?C: strings.
?C:.
?H:#$d_inetaton HAS_INET_ATON  /**/
?H:.
?LINT:set d_inetaton
: check whether inet_aton exists
set inet_aton d_inetaton
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_inetaton.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_stdlib.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_stdlib.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_stdlib: Nothing
?MAKE: -pick add $@ %<
?S:i_stdlib:
?S: This variable unconditionally defines the I_STDLIB symbol.
?S:.
?C:I_STDLIB:
?C: This symbol is always defined, indicating that <stdlib.h> exists
?C: and should be included.
?C:.
?H:#define I_STDLIB  /**/
?H:.
: stub, used only to satisfy other units
i_stdlib='define'
```

Found in
path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_stdlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: otherlibdirs.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999-2000, Andy Dougherty
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: otherlibdirs.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
```

```
?RCS: Initial revision
?RCS:
?RCS: Revision 1.1  1999/07/08 18:20:26  doughera
?RCS: Initial revision
?RCS:
?RCS:
?MAKE:otherlibdirs d_perl_otherlibdirs: Myread cat sitelib sitearch \
 vendorarch vendorlib Setvar
?MAKE: -pick add $@ %<
?Y:TOP
?S:otherlibdirs:
?S: This variable contains a colon-separated set of paths for the perl
?S: binary to search for additional library files
 or modules.
?S: These directories will be tacked to the end of @INC.
?S: Perl will automatically search below each path for version-
?S: and architecture-specific directories.  See inc_version_list
?S: for more details.
?S: A value of ' ' means 'none' and is used to preserve this value
?S: for the next run through Configure.
?S:.
?S:d_perl_otherlibdirs:
?S: This variable conditionally defines PERL_OTHERLIBDIRS, which
?S: contains a colon-separated set of paths for the perl binary to
?S: include in @INC.  See also otherlibdirs.
?S:.
?C:PERL_OTHERLIBDIRS:
?C: This variable contains a colon-separated set of paths for the perl
?C: binary to search for additional library files or modules.
?C: These directories will be tacked to the end of @INC.
?C: Perl will automatically search below each path for version-
?C: and architecture-specific directories.  See PERL_INC_VERSION_LIST
?C: for more details.
?C:.
?H:#$d_perl_otherlibdirs PERL_OTHERLIBDIRS "$otherlibdirs"  /**/
?H:.
?LINT: set d_perl_otherlibdirs
:
 Final catch-all directories to search
$cat <<EOM

Lastly, you can have perl look in other directories for extensions and
modules in addition to those already specified.
These directories will be searched after
 $sitearch
 $sitelib
EOM
test X"$vendorlib" != "X" && echo ' ' $vendorlib
```

```
test X"$vendorarch" != "X" && echo ' ' $vendorarch
echo ' '
case "$otherlibdirs" in
"|' ') dflt='none' ;;
*) dflt="$otherlibdirs" ;;
esac
$cat <<EOM
Enter a colon-separated set of extra paths to include in perl's @INC
search path, or enter 'none' for no extra paths.

EOM

rp='Colon-separated list of additional directories for perl to search?'
. ./myread
case "$ans" in
' '|''|none) otherlibdirs=' ' ;;
*) otherlibdirs="$ans" ;;
esac
case "$otherlibdirs" in
' ') val=$undef ;;
*) val=$define ;;
esac
set d_perl_otherlibdirs
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/otherlibdirs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpgrp.U,v 3.0.1.1 1997/02/28 15:34:28 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_getpgrp.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:34:28  ram
?RCS: patch61: new USE_BSD_GETPGRP to detect the getpgrp() flavor
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getpgrp d_bsdgetpgrp: Guess Inlibc Setvar cat rm_try \
```

```
 +cc +ccflags +ldflags +libs i_unistd i_stdlib run
?MAKE: -pick add $@ %<
?S:d_getpgrp:
?S: This variable conditionally defines HAS_GETPGRP if getpgrp() is
?S: available
 to get the current process group.
?S:.
?S:d_bsdgetpgrp:
?S: This variable conditionally defines USE_BSD_GETPGRP if
?S: getpgrp needs one arguments whereas USG one needs none.
?S:.
?C:HAS_GETPGRP (GETPGRP):
?C: This symbol, if defined, indicates that the getpgrp routine is
?C: available to get the current process group.
?C:.
?C:USE_BSD_GETPGRP:
?C: This symbol, if defined, indicates that getpgrp needs one
?C: arguments whereas USG one needs none.
?C:.
?H:#$d_getpgrp HAS_GETPGRP  /**/
?H:#$d_bsdgetpgrp USE_BSD_GETPGRP /**/
?H:.
?T:xxx
?F:!try
?LINT:set d_getpgrp d_bsdgetpgrp
: see if getpgrp exists
set getpgrp d_getpgrp
eval $inlibc

@if USE_BSD_GETPGRP || d_bsdgetpgrp
case "$d_getpgrp" in
"$define")
 echo " "
 echo "Checking to see which flavor of getpgrp is in use..."
 $cat >try.c <<EOP
#include <stdio.h>
#$i_unistd I_UNISTD
#include <sys/types.h>
#ifdef I_UNISTD
#  include <unistd.h>
#endif
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
{
 if (getuid()
```

```
 == 0) {
  printf("(I see you are running Configure as super-user...)\n");
  setuid(1);
 }
#ifdef TRY_BSD_PGRP
 if (getpgrp(1) == 0)
  exit(0);
#else
 if (getpgrp() > 0)
  exit(0);
#endif
 exit(1);
}
EOP
 if $cc -o try -DTRY_BSD_PGRP $ccflags $ldflags try.c $libs >/dev/null 2>&1 && $run ./try; then
  echo "You have to use getpgrp(pid) instead of getpgrp()." >&4
  val="$define"
 elif $cc -o try $ccflags $ldflags try.c $libs >/dev/null 2>&1 && $run ./try; then
  echo "You have to use getpgrp() instead of getpgrp(pid)." >&4
  val="$undef"
 else
  echo "I can't seem to compile and run the test program."
  if ./usg; then
   xxx="a USG one, i.e. you use getpgrp()."
  else
   # SVR4 systems can appear rather BSD-ish.
   case "$i_unistd" in
   $undef)
    xxx="a BSD one, i.e. you use getpgrp(pid)."
    val="$define"
    ;;
   $define)
    xxx="probably a USG one, i.e. you use getpgrp()."
    val="$undef"
    ;;
   esac
  fi
  echo "Assuming your getpgrp is $xxx" >&4
 fi
 ;;
*) val="$undef";;
esac
set
 d_bsdgetpgrp
eval $setvar
$rm_try
@end
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_getpgrp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysstat.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysstat.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:48:30  ram
?RCS: patch61: created
?RCS:
?MAKE:i_sysstat: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysstat:
?S: This variable conditionally defines the I_SYS_STAT symbol,
?S: and indicates whether a C program should include <sys/stat.h>.
?S:.
?C:I_SYS_STAT (I_SYSSTAT):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/stat.h>.
?C:.
?H:#$i_sysstat I_SYS_STAT  /**/
?H:.
?LINT:set
 i_sysstat
: see if sys/stat.h is available
set sys/stat.h i_sysstat
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sysstat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sockopt.U,v 3.0.1.1 1995/07/25 14:16:14 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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```

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sockopt.U,v $
?RCS: Revision 3.0.1.1  1995/07/25  14:16:14  ram
?RCS: patch56: obsoleted KEEPALIVE in favor of CAN_KEEPALIVE for consistency
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_keepalive: cat rm contains +cc +ccflags +ldflags socketlib sockethdr \
 d_oldsock libs Oldconfig Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_keepalive:
?S: This symbol conditionally defines CAN_KEEPALIVE which
 indicates to the C
?S: program that setsockopt SO_KEEPALIVE will work properly.
?S:.
?C:CAN_KEEPALIVE (KEEPALIVE):
?C: This symbol if defined indicates to the C program that the SO_KEEPALIVE
?C: option of setsockopt() will work as advertised in the manual.
?C:.
?H:#$d_keepalive CAN_KEEPALIVE  /**/
?H:.
?F:!socket
?LINT:set d_keepalive
: see if setsockopt with SO_KEEPALIVE works as advertised
echo " "
case "$d_oldsock" in
"$undef")
 if $contains SO_KEEPALIVE `./findhdr sys/socket.h` \
  /dev/null >/dev/null 2>&1
 then
  echo "OK, let's see if SO_KEEPALIVE works as advertised..." >&4
  $cat > socket.c <<EOP
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
#include <netdb.h>

int main()
{
 int s = socket(AF_INET, SOCK_STREAM, 0);
 if (s == -1)
  exit(1);
 if (-1 == setsockopt(s, SOL_SOCKET, SO_KEEPALIVE, 0, 0))
```

```
  exit(2);
 exit(0);
}
EOP
  if $cc $ccflags $sockethdr $ldflags -o socket socket.c $libs \
   $socketlib >/dev/null 2>&1; then
   ./socket >/dev/null 2>&1
   case
 $? in
   0) echo "Yes, it does!"
    val="$define";;
   1) $cat <<EOM
(Something went wrong -- Assuming SO_KEEPALIVE is broken)
EOM
    val="$undef";;
   2) echo "No, it doesn't.  Don't trust your manuals!!"
    val="$undef";;
   esac
  else
   cat <<EOM
(I can't compile the test program -- Assuming SO_KEEPALIVE is broken)
EOM
   val="$undef"
  fi
 else
  echo "Strange!! You have BSD 4.2 sockets but no SO_KEEPALIVE option."
  val="$undef"
 fi;;
*) cat <<EOM
As you have an old socket interface, you can't have heard of SO_KEEPALIVE.
EOM
 val="$undef";;
esac
set d_keepalive
eval $setvar
$rm -f socket socket.c
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/sockopt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endpwent.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
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?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
?RCS: $Log: d_endpwent.U,v $
?RCS:
?MAKE:d_endpwent: Inlibc
?MAKE: -pick add $@ %<
?S:d_endpwent:
?S: This variable conditionally defines the HAS_ENDPWENT symbol, which
?S: indicates to the C program that the endpwent() routine is available
?S: for sequential access of the passwd database.
?S:.
?C:HAS_ENDPWENT:
?C: This symbol, if defined, indicates that the endpwent routine is
?C: available for finalizing sequential access of the passwd database.
?C:.
?H:#$d_endpwent HAS_ENDPWENT  /**/
?H:.
?LINT:set d_endpwent
: see if endpwent exists
set endpwent d_endpwent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_endpwent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fcntl_can_lock.U,v$
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_fcntl_can_lock.U,v $
?RCS:
?MAKE:d_fcntl_can_lock: d_fcntl Compile Setvar cat rm_try run signal_t i_stdlib
?MAKE: -pick add $@ %<
?S:d_fcntl_can_lock:
?S: This variable conditionally defines the FCNTL_CAN_LOCK symbol
?S: and indicates whether file locking with fcntl() works.
?S:.
?C:FCNTL_CAN_LOCK:
?C: This symbol, if defined, indicates that fcntl() can be used
?C: for file locking.  Normally on Unix systems this is defined.
?C: It may be undefined on VMS.
?C:.
?H:#$d_fcntl_can_lock FCNTL_CAN_LOCK  /**/
?H:.
```

```
?F:!try
?LINT: set d_fcntl_can_lock
?X: fcntl may not be fully functional.  As of November 2000, on VMS and
?X: DOS/DJGPP, fctnl-based locking doesn't work.
?X: Thanks
 to Craig A. Berry <craig.berry@psinetcs.com> for this test.
: See if fcntl-based locking works.
echo " "
$cat >try.c <<EOCP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <unistd.h>
#include <fcntl.h>
#include <signal.h>
$signal_t blech(int x) { exit(3); }
int main() {
#if defined(F_SETLK) && defined(F_SETLKW)
    struct flock flock;
    int retval, fd;
    fd = open("try.c", O_RDONLY);
    flock.l_type = F_RDLCK;
    flock.l_whence = SEEK_SET;
    flock.l_start = flock.l_len = 0;
    signal(SIGALRM, blech);
    alarm(10);
    retval = fcntl(fd, F_SETLK, &flock);
    close(fd);
    (retval < 0 ? exit(2) : exit(0));
#else
    exit(2);
#endif
}
EOCP
echo "Checking if fcntl-based file locking works... "
case "$d_fcntl" in
"$define")
 set try
 if eval $compile_ok; then
  if $run ./try; then
   echo "Yes, it seems to work."
   val="$define"
  else
   echo "Nope, it didn't work."
   val="$undef"
   case "$?" in
   3) $cat >&4 <<EOM
```

```
***
*** I had to
 forcibly timeout from fcntl(..., F_SETLK, ...).
*** This is (almost) impossible.
*** If your NFS lock daemons are not feeling well, something like
*** this may happen, please investigate.  Cannot continue, aborting.
***
EOM
    exit 1
    ;;
   esac
  fi
 else
  echo "I'm unable to compile the test program, so I'll assume not."
  val="$undef"
 fi
 ;;
*) val="$undef";
 echo "Nope, since you don't even have fcntl()."
 ;;
esac
set d_fcntl_can_lock
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fcntl_can_lock.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_dbm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_dbm.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:48:20  ram
?RCS: patch61: added I_RPCSVC_DBM check
?RCS:
?RCS: Revision 3.0.1.1  1995/05/12  12:16:05  ram
?RCS: patch54: made more robust by checking both header and lib (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:15  ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_dbm i_rpcsvcdbm: Inhdr Inlibc Setvar
?MAKE: -pick add $@ %<
?S:i_dbm (d_odbm):
?S: This variable conditionally defines
 the I_DBM symbol, which
?S: indicates to the C program that <dbm.h> exists and should
?S: be included.
?S:.
?S:i_rpcsvcdbm:
?S: This variable conditionally defines the I_RPCSVC_DBM symbol, which
?S: indicates to the C program that <rpcsvc/dbm.h> exists and should
?S: be included.  Some System V systems might need this instead of <dbm.h>.
?S:.
?C:I_DBM (HAS_ODBM ODBM):
?C: This symbol, if defined, indicates that <dbm.h> exists and should
?C: be included.
?C:.
?C:I_RPCSVC_DBM:
?C: This symbol, if defined, indicates that <rpcsvc/dbm.h> exists and
?C: should be included.
?C:.
?H:#$i_dbm I_DBM /**/
?H:#$i_rpcsvcdbm I_RPCSVC_DBM /**/
?H:.
?T:d_dbmclose
?LINT:set i_dbm i_rpcsvcdbm
: see if dbm.h is available
?X: We might just have the header, not the library.
?X: We look for dbmclose() rather than dbminit() because
?X: some versions of SCO Unix have -ldbm, but are missing dbmclose(). -- ADO
?X: Some System V systems have <rpcsvc/dbm.h> instead of <dbm.h>.
: see if dbmclose exists
set dbmclose
 d_dbmclose
eval $inlibc

case "$d_dbmclose" in
$define)
 set dbm.h i_dbm
 eval $inhdr
 case "$i_dbm" in
 $define)
  val="$undef"
  set i_rpcsvcdbm
  eval $setvar
  ;;
```

```
 *) set rpcsvc/dbm.h i_rpcsvcdbm
  eval $inhdr
  ;;
 esac
 ;;
*) echo "We won't be including <dbm.h>"
 val="$undef"
 set i_dbm
 eval $setvar
 val="$undef"
 set i_rpcsvcdbm
 eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_dbm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fsync: Inlibc
?MAKE: -pick add $@ %<
?S:d_fsync:
?S: This variable conditionally defines the HAS_FSYNC symbol, which
?S: indicates to the C program that the fsync() routine is available.
?S:.
?C:HAS_FSYNC:
?C: This symbol, if defined, indicates that the fsync routine is
?C: available to write a file's modified data and attributes to
?C: permanent storage.
?C:.
?H:#$d_fsync HAS_FSYNC  /**/
?H:.
?LINT:set d_fsync
: see if fsync exists
set fsync d_fsync
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fsync.U

No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_lroundl: Inlibc
?MAKE: -pick add $@ %<
?S:d_lroundl:
?S: This variable conditionally defines the HAS_LROUNDL symbol, which
?S: indicates to the C program that the lroundl() routine is available
?S: to return the integral value nearest to x away from zero.
?S:.
?C:HAS_LROUNDL:
?C: This symbol, if defined, indicates that the lroundl routine is
?C: available to return the nearest integral value away from zero of
?C: the long double argument value.
?C:.
?H:#$d_lroundl HAS_LROUNDL  /**/
?H:.
?LINT:set d_lroundl
: see if lroundl exists
set lroundl d_lroundl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_lroundl.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sigaction.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:44:29  ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_sigaction: Csym Setvar cat cc ccflags ldflags libs rm _o
?MAKE: -pick add $@ %<
?S:d_sigaction:
?S: This variable conditionally defines the HAS_SIGACTION symbol, which
```

```
?S: indicates that the Vr4 sigaction() routine is available.
?S:.
?C:HAS_SIGACTION:
?C: This symbol, if defined, indicates that Vr4's sigaction() routine
?C: is available.
?C:.
?H:#$d_sigaction HAS_SIGACTION /**/
?H:.
?T:val
?LINT:set
 d_sigaction
: see if we have sigaction
echo " "
if set sigaction val -f d_sigaction; eval $csym; $val; then
 echo 'sigaction() found.' >&4
 val="$define"
else
 echo 'sigaction NOT found.' >&4
 val="$undef"
fi
?X:
?X: Solaris 2.5_x86 with SunWorks Pro C 3.0.1 doesn't have a complete
?X: sigaction structure if compiled with cc -Xc.  This compile test
?X: will fail then.  <doughera@lafcol.lafayette.edu>
?X:
$cat > set.c <<'EOP'
#include <stdio.h>
#include <sys/types.h>
#include <signal.h>
int main()
{
   struct sigaction act, oact;
}
EOP
if $cc $ccflags $ldflags -o set set.c $libs >/dev/null 2>&1; then
 :
else
 echo "But you don't seem to have a useable struct sigaction." >&4
 val="$undef"
fi
set d_sigaction; eval $setvar
$rm -f set set$_o set.c
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sigaction.U
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?RCS:
?MAKE:d_newlocale d_freelocale d_uselocale d_duplocale d_querylocale \
 i_xlocale xlocale_needed: Inlibc Inhdr Compile cat rm_try run \
 d_localeconv_l
?MAKE: -pick add $@ %<
?S:d_newlocale:
?S: This variable conditionally defines the HAS_NEWLOCALE symbol, which
?S: indicates to the C program that the newlocale() routine is available
?S: to return a new locale object or modify an existing locale object.
?S:.
?S:d_freelocale:
?S: This variable conditionally defines the HAS_FREELOCALE symbol, which
?S: indicates to the C program that the freelocale() routine is available
?S: to deallocates the resources associated with a locale object.
?S:.
?S:d_uselocale:
?S: This variable conditionally defines the HAS_USELOCALE symbol, which
?S: indicates to the C program that the uselocale()
 routine is available
?S: to set the current locale for the calling thread.
?S:.
?S:d_duplocale:
?S: This variable conditionally defines the HAS_DUPLOCALE symbol, which
?S: indicates to the C program that the duplocale() routine is available
?S: to duplicate a locale object.
?S:.
?S:d_querylocale:
?S: This variable conditionally defines the HAS_QUERYLOCALE symbol, which
?S: indicates to the C program that the querylocale() routine is available
?S: to return the name of the locale for a category mask.
?S:.
?S:i_xlocale:
?S: This symbol, if defined, indicates to the C program that the
?S: header xlocale.h is available.  See also xlocale_needed.
?S:.
?S:xlocale_needed:
?S: This symbol, if defined, indicates that the C program should
?S: include <xlocale.h> to get newlocale() and its friends.
?S:.
?C:HAS_NEWLOCALE:
?C: This symbol, if defined, indicates that the newlocale routine is
?C: available to return a new locale object or modify an existing
?C: locale object.
?C:.
?C:HAS_FREELOCALE:
?C: This
```

```
 symbol, if defined, indicates that the freelocale routine is
?C: available to deallocates the resources associated with a locale object.
?C:.
?C:HAS_USELOCALE:
?C: This symbol, if defined, indicates that the uselocale routine is
?C: available to set the current locale for the calling thread.
?C:.
?C:HAS_DUPLOCALE:
?C: This symbol, if defined, indicates that the duplocale routine is
?C: available to duplicate a locale object.
?C:.
?C:HAS_QUERYLOCALE:
?C: This symbol, if defined, indicates that the querylocale routine is
?C: available to return the name of the locale for a category mask.
?C:.
?C:I_XLOCALE:
?C: This symbol, if defined, indicates to the C program that the
?C: header xlocale.h is available.  See also NEED_XLOCALE_H
?C:.
?C:NEED_XLOCALE_H:
?C: This symbol, if defined, indicates that the C program should
?C: include <xlocale.h> to get newlocale() and its friends.
?C:.
?H:#$d_newlocale HAS_NEWLOCALE /**/
?H:#$d_freelocale HAS_FREELOCALE /**/
?H:#$d_uselocale HAS_USELOCALE /**/
?H:#$d_duplocale HAS_DUPLOCALE /**/
?H:#$d_querylocale HAS_QUERYLOCALE /**/
?H:#$xlocale_needed NEED_XLOCALE_H /**/
?H:#$i_xlocale I_XLOCALE
            /**/
?H:.
?LINT:set i_xlocale
?LINT:set d_newlocale
?LINT:set d_freelocale
?LINT:set d_uselocale
?LINT:set d_duplocale
?LINT:set d_querylocale
?F:!try
: see if this is an xlocale.h system
set xlocale.h i_xlocale
eval $inhdr

: see if newlocale exists
set newlocale d_newlocale
eval $inlibc

: see if freelocale exists
```

```
set freelocale d_freelocale
eval $inlibc

: see if uselocale exists
set uselocale d_uselocale
eval $inlibc

: see if duplocale exists
set duplocale d_duplocale
eval $inlibc

: see if querylocale exists
set querylocale d_querylocale
eval $inlibc

: if we have xlocale.h, check whether it is needed
case "$i_xlocale$d_newlocale$xlocale_needed" in
"$define$define")
 echo "Checking if xlocale.h is needed..." >&4
 $cat >try.c <<EOF
#include <locale.h>
#include <stdio.h>
#ifdef TRY_XLOCALE
#include <xlocale.h>
#endif
#$d_localeconv_l
 HAVE_LOCALECONV_L

#ifdef HAVE_LOCALECONV_L
struct lconv *(*lcptr)(locale_t) = localeconv_l;
#endif

int main(void) {
 locale_t lc = newlocale(LC_ALL_MASK, "C", (locale_t)0);

#ifdef HAVE_LOCALECONV_L
 /* FreeBSD hides only localeconv_l() in xlocale.h */
 struct lconv *lcbuf = localeconv_l(lc);
 printf("decimal: %s\n", lcbuf->decimal_point);
#endif

 freelocale(lc);
 return 0;
}
EOF
 set try
 if eval $compile && $run ./try > /dev/null 2>&1 ; then
  echo "xlocale.h isn't needed" >&4
```

```
  xlocale_needed=$undef
 else
  set try -DTRY_XLOCALE
  if eval $compile && $run ./try > /dev/null 2>&1 ; then
   xlocale_needed=$define
   echo "xlocale.h is needed" >&4
  else
   echo "I can't build my test either way" >&4
   xlocale_needed=$undef
  fi
 fi
 $rm_try
 ;;
*) xlocale_needed=$undef ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_newlocale.U
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_wcscmp: Compile cat rm_try run Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_wcscmp:
?S: This variable conditionally defines the HAS_WCSCMP symbol if the
?S: wcscmp() routine is available and can be used to compare wide
?S: character strings.
?S:.
?C:HAS_WCSCMP:
?C: This symbol, if defined, indicates that the wcscmp routine is
?C: available to compare two wide character strings.
?C:.
?H:#$d_wcscmp HAS_WCSCMP /**/
?H:.
?F:!try
?LINT: set d_wcscmp
: look for wcscmp
echo " "
$cat >try.c <<'EOCP'
#include <stdio.h>
```

```
#include
 <wchar.h>
int main ()
{
   wchar_t *s = L" ";
   return (wcscmp (s, s) ? 1 : 0);
   }
EOCP
set try
?X: if $cc $ccflags $ldflags -o try try.c $libs >/dev/null 2>&1 ; then
val="$undef"
if eval $compile; then
   `$run ./try`
   case "$?" in
 0)  echo "A working wcscmp() found." >&4
     val="$define" ;;
 *)  echo "wcscmp() found, but it doesn't work" >&4
     ;;
 esac
else
   echo "wcscmp() NOT found." >&4
   fi
set d_wcscmp
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_wcscmp.U
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_sresuproto: Hasproto i_unistd
?MAKE: -pick add $@ %<
?S:d_sresuproto:
?S: This variable conditionally defines the HAS_SETRESUID_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the setresuid() function.  Otherwise, it is
?S: up to the program to supply one.
```

```
?S:.
?C:HAS_SETRESUID_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the setresuid() function.  Otherwise, it is up
?C: to the program to supply one.  Good guesses are
?C:  extern
 int setresuid(uid_t ruid, uid_t euid, uid_t suid);
?C:.
?H:#$d_sresuproto HAS_SETRESUID_PROTO /**/
?H:.
?LINT:set d_sresuproto
: see if prototype for setresuid is available
echo " "
set d_sresuproto setresuid $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_sresuproto.U
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?RCS:
?MAKE:d_strtouq: Inlibc cat Compile run
?MAKE: -pick add $@ %<
?S:d_strtouq:
?S: This variable conditionally defines the HAS_STRTOUQ symbol, which
?S: indicates to the C program that the strtouq() routine is available.
?S:.
?C:HAS_STRTOUQ:
?C: This symbol, if defined, indicates that the strtouq routine is
?C: available to convert strings to unsigned long longs (quads).
?C:.
?H:#$d_strtouq HAS_STRTOUQ  /**/
?H:.
?F:!try
: see if strtouq exists
set strtouq d_strtouq
eval $inlibc

case "$d_strtouq" in
"$define")
 $cat <<EOM
```

```
Checking whether your strtouq() works okay...
EOM
 $cat >try.c <<'EOCP'
#include <stdlib.h>
#include <errno.h>
#include <stdio.h>
static int bad = 0;
void check(const char *s, unsigned
 long long eull, int een) {
 unsigned long long gull;
 errno = 0;
 gull = strtouq(s, 0, 10);
 if (!((gull == eull) && (errno == een)))
  bad++;
}
int main() {
 check(" 1",                                1LL, 0);
 check(" 0",                                0LL, 0);
 check("18446744073709551615",  18446744073709551615ULL, 0);
 check("18446744073709551616",  18446744073709551615ULL, ERANGE);
#if 0 /* strtouq() for /^-/ strings is undefined. */
 check("-1",                  18446744073709551615ULL, 0);
 check("-18446744073709551614",                  2LL, 0);
 check("-18446744073709551615",                  1LL, 0);
 check("-18446744073709551616", 18446744073709551615ULL, ERANGE);
 check("-18446744073709551617", 18446744073709551615ULL, ERANGE);
#endif
 if (!bad)
  printf("ok\n");
 return 0;
}
EOCP
 set try
 if eval $compile; then
  case "`$run ./try`" in
  ok) echo "Your strtouq() seems to be working okay." ;;
  *) cat <<EOM >&4
Your strtouq() doesn't seem to be working
 okay.
EOM
     d_strtouq="$undef"
     ;;
  esac
 else
  echo "(I can't seem to compile the test program--assuming it doesn't)"
  d_strtouq="$undef"
 fi
 ;;
```

```
esac

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strtouq.U
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?RCS:
?MAKE:d_signbit: nvtype Compile Setvar cat run rm_try echo n c i_sunmath
?MAKE: -pick add $@ %<
?S:d_signbit:
?S: This variable conditionally defines the HAS_SIGNBIT symbol, which
?S: indicates to the C program that the signbit() routine is available
?S: and safe to use with perl's intern NV type.
?S:.
?C:HAS_SIGNBIT:
?C: This symbol, if defined, indicates that the signbit routine is
?C: available to check if the given number has the sign bit set.
?C: This should include correct testing of -0.0.  This will only be set
?C: if the signbit() routine is safe to use with the NV type used internally
?C: in perl.  Users should call Perl_signbit(), which will be #defined to
?C: the system's signbit() function or macro if this symbol is defined.
?C:.
?H:#$d_signbit
 HAS_SIGNBIT  /**/
?H:.
?F:!try
?LINT:set d_signbit
: see if signbit exists
$echo $n "Checking to see if you have signbit() available to work on $nvtype... $c" >&4
$cat >try.c <<EOCP
#$i_sunmath I_SUNMATH
#include <math.h>
#ifdef I_SUNMATH  /* Solaris special math library */
#  include <sunmath.h>
#endif
#define NV $nvtype
int main(int argc, char **argv)
{
   NV x = 0.0;
   NV y = -1.0;
   if ((signbit(x) == 0) && (signbit(y) != 0))
 return 0;
   else
```

```
 return 1;
}
EOCP
val="$undef"
set try
if eval $compile; then
   if $run ./try; then
       $echo "Yes." >&4
 val="$define"
   else
       $echo "Signbit seems to be available, but doesn't work as I expected."
       $echo "I won't use it." >&4
 val="$undef"
   fi
else
   $echo "Nope." >&4
   dflt="$undef"
fi
set d_signbit
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_signbit.U
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_time.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit finds which "time" include to use. If 'timezone' is used by the
?X: program, we also try to find which header should be included. Eventually,
?X: we look for <sys/select.h> if I_SYSSELECT is used, to get struct timeval.
?X:
?MAKE:i_time i_systime i_systimek timeincl: cat cc ccflags contains rm_try \
 echo n c +i_sysselct Findhdr
```

```
?MAKE: -pick add $@ %<
?S:i_time:
?S: This
 variable conditionally defines I_TIME, which indicates
?S: to the C program that it should include <time.h>.
?S:.
?S:i_systime:
?S: This variable conditionally defines I_SYS_TIME, which indicates
?S: to the C program that it should include <sys/time.h>.
?S:.
?S:i_systimek:
?S: This variable conditionally defines I_SYS_TIME_KERNEL, which
?S: indicates to the C program that it should include <sys/time.h>
?S: with KERNEL defined.
?S:.
?S:timeincl:
?S: This variable holds the full path of the included time header(s).
?S:.
?C:I_TIME (USE_TIME_H):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <time.h>.
?C:.
?C:I_SYS_TIME (I_SYSTIME USE_SYS_TIME_H NO_TIME_WITH_SYS_TIME):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/time.h>.
?C:.
?C:I_SYS_TIME_KERNEL (I_SYSTIMEKERNEL):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/time.h> with KERNEL defined.
?C:.
?H:#$i_time I_TIME  /**/
?H:#$i_systime
 I_SYS_TIME  /**/
?H:#$i_systimek I_SYS_TIME_KERNEL  /**/
?H:.
?W::timezone
?T:xselect flags sysselect s_timeval s_timezone
?LINT:change i_sysselct
: see if we should include time.h, sys/time.h, or both
echo " "
echo "Testing to see if we should include <time.h>, <sys/time.h> or both." >&4
$echo $n "I'm now running the test program...$c"
$cat >try.c <<'EOCP'
#include <sys/types.h>
#ifdef I_TIME
#include <time.h>
#endif
#ifdef I_SYSTIME
```

```
#ifdef SYSTIMEKERNEL
#define KERNEL
#endif
#include <sys/time.h>
#endif
#ifdef I_SYSSELECT
#include <sys/select.h>
#endif
int main()
{
 struct tm foo;
#ifdef S_TIMEVAL
 struct timeval bar;
#endif
#ifdef S_TIMEZONE
 struct timezone tzp;
#endif
 if (foo.tm_sec == foo.tm_sec)
  exit(0);
#ifdef S_TIMEVAL
 if (bar.tv_sec == bar.tv_sec)
  exit(0);
#endif
 exit(1);
}
EOCP
flags=''
@if I_SYSSELECT
if $contains 'timeval.*{' `./findhdr sys/select.h` >/dev/null 2>&1; then
 xselect='-DI_SYSSELECT'
else
 xselect=''
fi
@end
@if timezone
for s_timezone
 in '-DS_TIMEZONE' ''; do
@else
s_timezone=''
@end
?X: Every package is given a try with 'struct timeval'
@if I_SYSSELECT
for sysselect in $xselect ''; do
@else
sysselect=''
@end
for s_timeval in '-DS_TIMEVAL' ''; do
for i_systimek in '' '-DSYSTIMEKERNEL'; do
```

```
for i_time in " '-DI_TIME'; do
for i_systime in '-DI_SYSTIME' "; do
 case "$flags" in
 ") $echo $n ".$c"
  if $cc $ccflags \
  $i_time $i_systime $i_systimek $sysselect $s_timeval $s_timezone \
  -o try try.c >/dev/null 2>&1 ; then
   set X $i_time $i_systime $i_systimek $sysselect $s_timeval
   shift
   flags="$*"
   echo " "
   $echo $n "Succeeded with $flags$c"
  fi
  ;;
 esac
done
done
done
done
@if I_SYSSELECT
done
@end
@if timezone
done
@end
timeincl="
echo " "
case "$flags" in
*SYSTIMEKERNEL*) i_systimek="$define"
 timeincl=`./findhdr sys/time.h`
 echo "We'll include <sys/time.h> with KERNEL defined." >&4;;
*) i_systimek="$undef";;
esac
case "$flags" in
*I_TIME*) i_time="$define"
 timeincl=`./findhdr time.h`" $timeincl"
 echo
 "We'll include <time.h>." >&4;;
*) i_time="$undef";;
esac
case "$flags" in
*I_SYSTIME*) i_systime="$define"
 timeincl=`./findhdr sys/time.h`" $timeincl"
 echo "We'll include <sys/time.h>." >&4;;
*) i_systime="$undef";;
esac
@if I_SYSSELECT
case "$flags" in
```

```
*I_SYSSELECT*) i_sysselct="$define"
 timeincl=`./findhdr sys/select.h`" $timeincl"
 echo "We'll also include <sys/select.h> to get struct timeval." >&4;;
*) case "$i_sysselct" in
 ") i_sysselct="$undef";;
 esac
esac
@end
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_time.U
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: archname.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:24:32  ram
?RCS: patch61: changed the way the archname is mangled from uname
?RCS:
?RCS: Revision 3.0.1.2  1995/05/12  12:05:24  ram
?RCS: patch54: protect against spaces in "uname -m" output (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1995/02/15  14:14:21  ram
?RCS: patch51: created
?RCS:
?MAKE:archname myarchname: sed Loc Myread Oldconfig osname test rm
?MAKE: -pick add $@ %<
?S:archname:
?S: This variable is a short name to characterize the current
?S: architecture.
  It is used mainly to construct the default archlib.
?S:.
?S:myarchname:
?S: This variable holds the architecture name computed by Configure in
?S: a previous run. It is not intended to be perused by any user and
?S: should never be set in a hint file.
?S:.
?C:ARCHNAME:
```

```
?C: This symbol holds a string representing the architecture name.
?C: It may be used to construct an architecture-dependant pathname
?C: where library files may be held under a private library, for
?C: instance.
?C:.
?H:#define ARCHNAME "$archname"  /**/
?H:.
?T:xxx tarch
: determine the architecture name
echo " "
?X: We always recompute archname in case osname changes. However, we need
?X: to be careful since, as ADO rightfully pointed out, some systems pick
?X: silly architecture names (0001307135000-aix on AIX or 9000/715-ux under
?X: HP-UX). Therefore, we allow hint files to superseed our guess and ask
?X: the user for confirmation.
if xxx=`./loc arch blurfl $pth`; $test -f "$xxx"; then
 tarch=`arch`"-$osname"
elif
 xxx=`./loc uname blurfl $pth`; $test -f "$xxx" ; then
 if uname -m > tmparch 2>&1 ; then
  tarch=`$sed -e 's/ *$//' -e 's/ /_/g' \
   -e 's/$/'"-$osname/" tmparch`
 else
  tarch="$osname"
 fi
 $rm -f tmparch
else
 tarch="$osname"
fi
case "$myarchname" in
"|"$tarch") ;;
*)
 echo "(Your architecture name used to be $myarchname.)"
 archname=''
 ;;
esac
case "$archname" in
'') dflt="$tarch";;
*) dflt="$archname";;
esac
rp='What is your architecture name'
. ./myread
archname="$ans"
myarchname="$tarch"
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/archname.U

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dup2.C,v 3.0.1.1 1994/01/24 13:58:37 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* Original Author: Larry Wall <lwall@netlabs.com>
*
* $Log: dup2.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:37  ram
* patch16: created
*
*/
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/lib/C/fake/dup2.C
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: fpu.U,v 3.0 1993/08/18 12:08:10 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: fpu.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:10  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?LINT: empty
?X:?MAKE:fpu: test cat cc Myread
?X:?MAKE: -pick add $@ %<
?X:?S:fpu (fpunit):
?X:?S: Set to be the compile flag for the local floating point unit.
?X:?S:.
?X:?C:FPU (FPUNIT):
?X:?C: String containing the flags for the local floating point unit.
```

```
?X:?C:.
?X:?H:#define FPU "$fpu" /**/
?X:?H:.
?X:: see what floating point compile flags should be used.
?X:fpu="
?X:if
 $test -r /dev/fpa; then
?X: $cat>fpa.c << GOOP
?X: main(){return(1);}
?X:GOOP
?X: $cc -ffpa -o fpa fpa.c
?X: fpa > fpa.out 2>&1
?X: if $test ! -s fpa.out; then
?X:  dflt='y'
?X:  $cat <<'EOM'
?X:
?X:You seem to have a sun fpa...  I can compile the code to use the fpa but it will
?X:mean that the code can ONLY run on a machine with a fpa...
?X:
?X:EOM
?X:  rp="Should I compile for fpa?"
?X:  . ./myread
?X:  if $test $ans = "n"; then
?X:   fpu="
?X:  else
?X:   fpu='-ffpa'
?X:  fi
?X: else
?X:  $cat <<'EOM'
?X:
?X:You have the fpa device but I can't seem to use it.  Maybe you should talk to
?X:your sysadmin about this.  For now, I am not going to compile it in.
?X:
?X:EOM
?X: fi
?X:fi
?X:if $test "$fpu" = ''; then
?X: if $test -r /usr/etc/mc68881version; then
?X:  dflt='y'
?X:  $cat <<'EOM'
?X:
?X:There also seems to be the pieces for a 68881.  If I compile this in, it will
?X:work on almost all Sun 3's except for a few Sun-3/50s without a 68881...
?X:
?X:EOM
?X:  rp="Should
 I compile for a 68881?"
?X:  . ./myread
```

```
?X:  if $test $ans = "y"; then
?X:   fpu='-f68881'
?X:  fi
?X: fi
?X:fi
?X:
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/nullified/fpu.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getnetprotos.U,v $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_getnetprotos : Hasproto i_netdb
?MAKE: -pick add $@ %<
?S:d_getnetprotos:
?S: This variable conditionally defines the HAS_GETNET_PROTOS symbol,
?S: which indicates to the C program that <netdb.h> supplies
?S: prototypes for the various getnet*() functions.
?S: See also netdbtype.U for probing for various netdb types.
?S:.
?C:HAS_GETNET_PROTOS:
?C: This symbol, if defined, indicates that <netdb.h> includes
?C: prototypes for getnetent(), getnetbyname(), and
?C: getnetbyaddr().  Otherwise,
 it is up to the program to guess
?C: them.  See netdbtype.U for probing for various Netdb_xxx_t types.
?C:.
?H:#$d_getnetprotos HAS_GETNET_PROTOS /**/
?H:.
?LINT:set d_getnetprotos
: see if prototypes for various getnetxxx netdb.h functions are available
echo " "
set d_getnetprotos getnetent $i_netdb netdb.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/d_getnetprotos.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_rename.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_rename.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_rename: Inlibc
?MAKE: -pick add $@ %<
?S:d_rename:
?S: This variable conditionally defines the HAS_RENAME symbol, which
?S: indicates to the C program that the rename() routine is available
?S: to rename files.
?S:.
?C:HAS_RENAME (RENAME):
?C: This symbol, if defined, indicates that the rename routine is available
?C: to rename files.
  Otherwise you should do the unlink(), link(), unlink()
?C: trick.
?C:.
?H:#$d_rename HAS_RENAME /**/
?H:.
?LINT:set d_rename
: see if rename exists
set rename d_rename
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_rename.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_link.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_link.U,v $
?RCS: Revision 3.0.1.1  1993/08/25  14:01:13  ram
?RCS: patch6: created for completeness
?RCS:
?MAKE:d_link: Inlibc
?MAKE: -pick add $@ %<
?S:d_link:
?S: This variable conditionally defines HAS_LINK if link() is
?S: available to create hard links.
?S:.
?C:HAS_LINK:
?C: This symbol, if defined, indicates that the link routine is
?C: available to create hard links.
?C:.
?H:#$d_link HAS_LINK /**/
?H:.
?LINT:set d_link
: see if link exists
set
 link d_link
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_link.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_sockatmark: Inlibc
?MAKE: -pick add $@ %<
?S:d_sockatmark:
?S: This variable conditionally defines the HAS_SOCKATMARK symbol, which
?S: indicates to the C program that the sockatmark() routine is available.
?S:.
?C:HAS_SOCKATMARK:
?C: This symbol, if defined, indicates that the sockatmark routine is
?C: available to test whether a socket is at the out-of-band mark.
?C:.
?H:#$d_sockatmark HAS_SOCKATMARK  /**/
```

```
?H:.
?LINT:set d_sockatmark
: see if sockatmark exists
set sockatmark d_sockatmark
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_sockatmark.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libpth.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libpth.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  16:08:49  ram
?RCS: patch61: new loclibpth variable
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:31:30  ram
?RCS: patch45: call ./mips instead of just mips (WED)
?RCS:
?RCS: Revision 3.0.1.4  1994/08/29  16:29:15  ram
?RCS: patch32: added /lib/pa1.1 for HP-UX specially tuned PA-RISC libs (ADO)
?RCS: patch32: fixed information message, making it clearer (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:03:54
  ram
?RCS: patch30: added /usr/shlib to glibpth for shared-only libraries
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:26:57  ram
?RCS: patch27: fixed a typo (libpth -> glibpth)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:07:53  ram
?RCS: patch23: now asks for library directories to be searched (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit initializes the path for C library lookup.
?X:
```

```
?MAKE:libpth glibpth xlibpth plibpth loclibpth incpth: \
 usrinc incpath test cat Myread Oldconfig sysroot osname \
 ccname echo cppstdin awk grep sed rm usecrosscompile
?MAKE: -pick add $@ %<
?S:libpth:
?S: This variable holds the general path (space-separated) used to find
?S: libraries. It is intended to be used by other units.
?S:.
?S:glibpth:
?S: This variable holds the general path (space-separated) used to
?S: find libraries.  It may contain directories that do not exist on
?S: this platform, libpth is the cleaned-up
 version.
?S:.
?S:xlibpth:
?S: This variable holds extra path (space-separated) used to find
?S: libraries on this platform, for example CPU-specific libraries
?S: (on multi-CPU platforms) may be listed here.
?S:.
?S:loclibpth:
?S: This variable holds the paths (space-separated) used to find local
?S: libraries.  It is prepended to libpth, and is intended to be easily
?S: set from the command line.
?S:.
?S:plibpth:
?S: Holds the private path used by Configure to find out the libraries.
?S: Its value is prepend to libpth. This variable takes care of special
?S: machines, like the mips.  Usually, it should be empty.
?S:.
?S:incpth:
?S: This variable must precede the normal include path to get the
?S: right one, as in "$incpath/usr/include" or "$incpath/usr/lib".
?S: Value can be "" or "/bsd43" on mips.
?S:.
?T: xxx dlist i j croak realpath inclibpth
?LINT:extern incpth
?LINT:change usrinc
?INIT:: change the next line if compiling for Xenix/286 on Xenix/386
?INIT:xlibpth='/usr/lib/386
 /lib/386'
?INIT:: Possible local library directories to search.
?INIT:loclibpth="/usr/local/lib /opt/local/lib /usr/gnu/lib"
?INIT:loclibpth="$loclibpth /opt/gnu/lib /usr/GNU/lib /opt/GNU/lib"
?INIT:
?INIT:: general looking path for locating libraries
?INIT:glibpth="/lib /usr/lib $xlibpth"
?INIT:glibpth="$glibpth /usr/ccs/lib /usr/ucblib /usr/local/lib"
?X: /shlib is for Digital Unix 4.0
```

```
?X: /usr/shlib is for OSF/1 systems.
?INIT:test -f /usr/shlib/libc.so && glibpth="/usr/shlib $glibpth"
?INIT:test -f /shlib/libc.so     && glibpth="/shlib $glibpth"
?INIT:test -d /usr/lib64         && glibpth="$glibpth /lib64 /usr/lib64 /usr/local/lib64"
?INIT:
?INIT:: Private path used by Configure to find libraries.  Its value
?INIT:: is prepended to libpth. This variable takes care of special
?INIT:: machines, like the mips.  Usually, it should be empty.
?INIT:plibpth=''
?INIT:
?X:cppfilter is later used in Findhdr.U, but we not want to expose it to config.h
?T:cppfilter
: Adjust cppfilter for path
 component separator
case "$osname" in
vos) cppfilter="tr '\\\\>' '/' |" ;; # path component separator is >
os2) cppfilter="sed -e 's|\\\\\\\\|/|g' |" ;; # path component separator is \
*)   cppfilter='' ;;
esac

: Use gcc to determine libpth and incpth
# If using gcc or clang, we can get better values for libpth, incpth
# and usrinc directly from the compiler.
# Note that ccname for clang is also gcc.
case "$ccname" in
   gcc)
 realpath=`which realpath 2>/dev/null | sed 's/no realpath in.*//'`
 $echo 'extern int foo;' > try.c
 set X `$cppstdin -v try.c 2>&1 | $awk '/^#include </,/^End of search /'|$cppfilter $grep '/include'`
 shift
 inclibpth=''
 if $test $# -gt 0; then
     for i in $*; do
  case $realpath in
      */realpath) i=`$realpath $i` ;;
  esac
  incpth="$incpth $i"
  j="`$echo $i | $sed 's,/include[^/]*,/lib,'`"
  if $test -d $j; then
      inclibpth="$inclibpth $j"
  fi
     done
     incpth="`$echo $incpth | $sed 's/^ //'`"
     for xxx in $inclibpth $loclibpth $plibpth
 $glibpth; do
  if $test -d $xxx; then
      case $realpath in
   */realpath) xxx=`$realpath $xxx` ;;
```

```
      esac
      case " $libpth " in
      *" $xxx "*) ;;
      *) libpth="$libpth $xxx";;
      esac
  fi
     done
     libpth="`$echo $libpth | $sed 's/^ //'`"
 fi
 $rm -f try.c
 case "$usrinc" in
 ") for i in $incpth; do
  if $test -f $i/errno.h -a -f $i/stdio.h -a -f $i/time.h; then
      usrinc="$i"
      break
  fi
     done
     ;;
 esac

 case "$usecrosscompile" in
 $define|true|[yY]*)
     case "$incpth" in
  ") echo "Incpth not defined." >&4; croak=y ;;
  *)  echo "Using incpth '$incpth'." >&4 ;;
     esac
     case "$libpth" in
  ") echo "Libpth not defined." >&4; croak=y ;;
  *)  echo "Using libpth '$libpth'." >&4 ;;
     esac
     case "$usrinc" in
  ") echo "Usrinc not defined." >&4; croak=y ;;
  *)  echo "Using usrinc $usrinc." >&4 ;;
     esac
     case "$croak" in
  y)
  if test "X$sysroot" = X; then
      echo "Cannot continue, aborting." >&4; exit 1
  else

    echo "Cross-compiling using sysroot $sysroot, failing to guess inc/lib paths is not fatal" >&4
  fi
  ;;
     esac
     ;;
 esac
   ;;
esac
```

```
: Default value for incpth is just usrinc
case "$incpth" in
") incpth="$usrinc";;
esac

: Set private lib path
case "$plibpth" in
") if ./mips; then
?X: on mips, we DO NOT want /lib, and we want $incpath/usr/lib
 plibpth="$incpath/usr/lib $sysroot/usr/local/lib $sysroot/usr/ccs/lib"
   fi;;
esac
case "$libpth" in
' ') dlist=";;
") dlist="$loclibpth $plibpth $glibpth";;
*) dlist="$libpth";;
esac

: Now check and see which directories actually exist, avoiding duplicates
for xxx in $dlist
do
   if $test -d $xxx; then
  case " $libpth " in
  *" $xxx "*) ;;
  *) libpth="$libpth $xxx";;
  esac
   fi
done
$cat <<'EOM'

Some systems have incompatible or broken versions of libraries.  Among
the directories listed in the question below, please remove any you
know not to be holding relevant libraries, and add any that are needed.
Say "none" for none.

EOM

if
 test "X$sysroot" != X; then
   $cat <<EOM
You have set sysroot to $sysroot, please supply the directories excluding sysroot

EOM
fi

case "$libpth" in
") dflt='none';;
```

```
*)
?X: strip leading space
 set X $libpth
 shift
 dflt=${1+"$@"}
 ;;
esac
rp="Directories to use for library searches?"
. ./myread
case "$ans" in
none) libpth=' ';;
*) libpth="$ans";;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/libpth.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_csh.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:32:18  ram
?RCS: patch61: added full_csh to preserve the full path even when portable
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:53  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_csh full_csh: csh Setvar
?MAKE: -pick add $@ %<
?S:d_csh:
?S: This variable conditionally defines the CSH symbol, which
?S: indicates to the C program that the C-shell exists.
?S:.
?S:full_csh:
?S: This variable contains the full pathname to 'csh', whether
 or
?S: not the user has specified 'portability'.  This is only used
?S: in the compiled C program, and we assume that all systems which
?S: can share this executable will have the same full pathname to
```

```
?S: 'csh.'
?S:.
?X: Yes, I know about the C symbol PORTABLE, but I think csh
?X: is unlikely to move, and I'm too lazy to add all the
?X: #ifdef PORTABLE sections to the perl source.
?X:
?C:HAS_CSH:
?C: This symbol, if defined, indicates that the C-shell exists.
?C:.
?C:CSH:
?C: This symbol, if defined, contains the full pathname of csh.
?C:.
?X: Previously, I just did $d_csh CSH "$full_csh", but that caused
?X: problems on VMS where the config.sh extraction program changes
?X: $undef to a real cpp undef, and they then had  #undef CSH ""
?X: which the compiler didn't like.  It's easy to work around this,
?X: so I did.  --AD  3/1998.
?X: And we don't want to define CSH if !HAS_CSH, but we don't want
?X: those lines in config.h if they don't need CSH, so protect with ?CSH
?X: and not
 ?%<. --RAM, 15/02/2004
?H:?%<:#$d_csh HAS_CSH  /**/
?H:?CSH:#ifdef HAS_CSH
?H:?CSH:#define CSH "$full_csh" /**/
?H:?CSH:#endif
?H:.
?LINT:set d_csh
: get csh whereabouts
case "$csh" in
'csh') val="$undef" ;;
*) val="$define" ;;
esac
set d_csh
eval $setvar
: Respect a hint or command line value for full_csh.
case "$full_csh" in
'') full_csh=$csh ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_csh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: charsize.U,v 3.0.1.1 1994/10/29 16:07:13 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
```

```
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: charsize.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:07:13  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:34  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:charsize charbits: cat rm_try Myread Compile run
?MAKE: -pick add $@ %<
?S:charsize:
?S: This variable contains the value of the CHARSIZE symbol, which
?S: indicates to the C program how many bytes there are in a character.
?S:.
?S:charbits:
?S: This
 variable contains the value of the CHARBITS symbol, which
?S: indicates to the C program how many bits there are in a character.
?S:.
?C:CHARSIZE:
?C: This symbol contains the size of a char, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?C:CHARBITS:
?C: This symbol contains the size of a char, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define CHARSIZE $charsize  /**/
?H:#define CHARBITS $charbits  /**/
?H:.
?F:!try
: length of character in bytes. Is always 1, otherwise it is not C
: This used to be a test using sizeof
charsize=1

: Check for the number of bits in a character
case "$charbits" in
") echo "Checking how long a character is (in bits)..." >&4
 $cat >try.c <<EOCP
#include <stdio.h>
int main ()
{
   int n;
```

```
  unsigned char c;
  for (c = 1, n = 0; c; c <<= 1, n++) ;
  printf ("%d\n", n);
  return (0);
  }
EOCP
 set try
 if eval $compile_ok; then
  dflt=`$run ./try`
 else
  dflt='8'
  echo "(I
 can't seem to compile the test program.  Guessing...)"
 fi
 ;;
*)
 dflt="$charbits"
 ;;
esac
rp="What is the length of a character (in bits)?"
. ./myread
charbits="$ans"
$rm_try
case "$charbits" in
8) ;;
*) cat >&4 << EOM
Your system has an unsigned character size of $charbits bits, which
is rather unusual (normally it is 8 bits).  Perl likely will not work
correctly on your system, with subtle bugs in various places.
EOM
 rp='Do you really want to continue?'
 dflt='n'
 . ./myread
 case "$ans" in
  [yY]) echo >&4 "Okay, continuing." ;;
  *) exit 1    ;;
 esac
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/charsize.U
No license file was found, but licenses were detected in source scan.

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```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:st_ino_size st_ino_sign: cat echo i_stdlib Setvar Compile run rm_try
?MAKE: -pick add $@ %<
?S:st_ino_sign:
?S: This variable contains the signedness of struct stat's st_ino.
?S: 1 for unsigned, -1 for signed.
?S:.
?S:st_ino_size:
?S: This variable contains the size of struct stat's st_ino in bytes.
?S:.
?C:ST_INO_SIZE:
?C: This variable contains the size of struct stat's st_ino in bytes.
?C:.
?C:ST_INO_SIGN:
?C: This symbol holds the signedness of struct stat's st_ino.
?C: 1 for unsigned, -1 for signed.
?C:.
?H:#define ST_INO_SIGN
 $st_ino_sign /* st_ino sign */
?H:#define ST_INO_SIZE $st_ino_size /* st_ino size */
?H:.
?F:!try
: Check the size of st_ino
$echo " "
$echo "Checking the size of st_ino..." >&4
$cat > try.c <<EOCP
#include <sys/stat.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() {
   struct stat st;
   printf("%d\n", (int)sizeof(st.st_ino));
   exit(0);
}
EOCP
set try
if eval $compile_ok; then
 val=`$run ./try`
 case "$val" in
 ") st_ino_size=4
  $echo "(I can't execute the test program--guessing $st_ino_size.)" >&4
  ;;
```

```
 *) st_ino_size=$val
  $echo "Your st_ino is $st_ino_size bytes long."
  ;;
 esac
else
 st_ino_size=4
 $echo "(I can't compile the test program--guessing $st_ino_size.)" >&4
fi
$rm_try

: Check if st_ino is signed
$echo " "
$echo "Checking the sign of st_ino..." >&4
$cat > try.c <<EOCP
#include <sys/stat.h>
#include <stdio.h>
int main() {
 struct stat foo;
       foo.st_ino = -1;
 if (foo.st_ino < 0)
  printf("-1\n");
 else
  printf("1\n");
}
EOCP
set
 try
if eval $compile; then
 val=`$run ./try`
 case "$val" in
 ") st_ino_sign=1
  $echo "(I can't execute the test program--guessing unsigned.)" >&4
  ;;
 *) st_ino_sign=$val
  case "$st_ino_sign" in
   1) $echo "Your st_ino is unsigned." ;;
  -1) $echo "Your st_ino is signed."   ;;
  esac
  ;;
 esac
else
 st_ino_sign=1
 $echo "(I can't compile the test program--guessing unsigned.)" >&4
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/perl/st_ino_def.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getgrnam_r.U,v 0RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getgrnam_r getgrnam_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_grp extern_C
?MAKE: -pick add $@ %<
?S:d_getgrnam_r:
?S: This variable conditionally defines the HAS_GETGRNAM_R symbol,
?S: which indicates to the C program that the getgrnam_r()
?S: routine is available.
?S:.
?S:getgrnam_r_proto:
?S: This variable encodes the prototype of getgrnam_r.
?S: It is zero if d_getgrnam_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getgrnam_r
?S: is defined.
?S:.
?C:HAS_GETGRNAM_R:
?C: This symbol, if defined, indicates that the getgrnam_r routine
?C: is available to
 getgrnam re-entrantly.
?C:.
?C:GETGRNAM_R_PROTO:
?C: This symbol encodes the prototype of getgrnam_r.
?C: It is zero if d_getgrnam_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getgrnam_r
?C: is defined.
?C:.
?H:#$d_getgrnam_r HAS_GETGRNAM_R /**/
?H:#define GETGRNAM_R_PROTO $getgrnam_r_proto /**/
?H:.
?T:try hdrs d_getgrnam_r_proto
: see if getgrnam_r exists
set getgrnam_r d_getgrnam_r
eval $inlibc
case "$d_getgrnam_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_grp grp.h"
 case "$d_getgrnam_r_proto:$usethreads" in
 ":define") d_getgrnam_r_proto=define
```

```
 set d_getgrnam_r_proto getgrnam_r $hdrs
 eval $hasproto ;;
*) ;;
esac
case "$d_getgrnam_r_proto" in
define)
case "$getgrnam_r_proto" in
"|0) try='int getgrnam_r(const char*, struct group*, char*, size_t, struct group**);'
./protochk "$extern_C $try" $hdrs && getgrnam_r_proto=I_CSBWR ;;
esac
case "$getgrnam_r_proto" in
"|0) try='int getgrnam_r(const char*, struct group*, char*,
int, struct group**);'
./protochk "$extern_C $try" $hdrs && getgrnam_r_proto=I_CSBIR ;;
esac
case "$getgrnam_r_proto" in
"|0) try='struct group* getgrnam_r(const char*, char*, int);'
./protochk "$extern_C $try" $hdrs && getgrnam_r_proto=S_CBI ;;
esac
case "$getgrnam_r_proto" in
"|0) try='int getgrnam_r(const char*, struct group*, char*, int);'
./protochk "$extern_C $try" $hdrs && getgrnam_r_proto=I_CSBI ;;
esac
case "$getgrnam_r_proto" in
"|0) try='struct group* getgrnam_r(const char*, struct group*, char*, int);'
./protochk "$extern_C $try" $hdrs && getgrnam_r_proto=S_CSBI ;;
esac
case "$getgrnam_r_proto" in
"|0) d_getgrnam_r=undef
 getgrnam_r_proto=0
 echo "Disabling getgrnam_r, cannot determine prototype." >&4 ;;
* ) case "$getgrnam_r_proto" in
 REENTRANT_PROTO*) ;;
 *) getgrnam_r_proto="REENTRANT_PROTO_$getgrnam_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "getgrnam_r has no prototype, not using it."
>&4 ;;
 esac
 d_getgrnam_r=undef
 getgrnam_r_proto=0
 ;;
esac
;;
*) getgrnam_r_proto=0
```

```
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getgrnam_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Signal.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Signal.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:20:01  ram
?RCS: patch61: created
?RCS:
?X:
?X: This unit produces three files:
?X: 1- A signal.c file, which, when compiled and run, produces an output like:
?X:
?X:   HUP 1
?X:   INT 2
?X:   QUIT 3
?X:   etc...
?X:
?X: 2- A signal.awk script to parse the output of signal.c, fill
?X: in gaps (up to NSIG) and move duplicates to the end.
?X: 3- A signal_cmd script to compile signal.c and run it
?X: through
 sort -n -k 2 | uniq | awk -f signal.awk.
?X: (we try also sort -n +1 since some old hosts don't grok sort -k)
?X: (This is called signal_cmd to avoid OS/2 confusion with
?X: signal.cmd vs. signal.
?X: The signal_cmd script also falls back on checking signals one at a
?X: time in case the signal.c program fails.  On at least one version of
?X: Linux 2.1.x, the header file #define'd SIGRTMAX to a symbol that
?X: is not defined by the compiler/linker. :-(.  Further, on that same
?X: version of Linux, the user had a defective C-shell that gave an
?X: incorrect list for kill -l, so the fall-back didn't work.
?X:
?X: This unit is then used by sig_name.U.
?X:
```

```
?MAKE:Signal: test tr rm awk cat grep startsh eunicefix sed sort uniq \
 Findhdr cppstdin +cppflags cppminus Compile _o _exe trnl run i_stdlib \
 sysroot
?MAKE: -pick add $@ %<
?X:all files declared as "public" since they're used from other units
?F:signal.c signal_cmd signal.lst signal signal.awk
?T: xx xxx xxxfiles
?LINT:use rm run
 _o _exe
?LINT:extern sig_num_init
: Trace out the files included by signal.h, then look for SIGxxx names.
?X: Remove SIGARRAYSIZE used by HPUX.
?X: Remove SIGSTKSIZE used by Linux.
?X: Remove SIGSTKSZ used by POSIX.
?X: Remove SIGTYP void lines used by OS2.
?X: Some cpps, like os390, do not give the file name anywhere
case "$sig_num_init" in
")
if [ "X$fieldn" = X ]; then
 : Just make some guesses.  We check them later.
 xxx="$sysroot/usr/include/signal.h $sysroot/usr/include/sys/signal.h"
else
 xxx=`echo '#include <signal.h>' |
 $cppstdin $cppminus $cppflags 2>/dev/null |
 $grep '^[  ]*#.*include' |
 $awk "{print \\$$fieldn}" | $sed 's!"!!g' |\
  $sed 's!\\\\\\\\!/!g' | $sort | $uniq`
fi
?X: Check this list of files to be sure we have parsed the cpp output ok.
?X: This will also avoid potentially non-existent files, such
?X: as ../foo/bar.h
xxxfiles="
?X: Add /dev/null in case the $xxx list is empty.
for xx in $xxx /dev/null ; do
 $test -f "$xx" && xxxfiles="$xxxfiles $xx"
done
?X:
 If we have found no files, at least try signal.h
case "$xxxfiles" in
") xxxfiles=`./findhdr signal.h` ;;
esac
xxx=`awk '
$1 ~ /^#define$/ && $2 ~ /^SIG[A-Z0-9]*$/ && $2 !~ /SIGARRAYSIZE/ && $2 !~ /SIGSTKSIZE/ && $2 !~
/SIGSTKSZ/ && $3 !~ /void/ {
 print substr($2, 4, 20)
}
$1 == "#" && $2 ~ /^define$/ && $3 ~ /^SIG[A-Z0-9]*$/ && $3 !~ /SIGARRAYSIZE/ && $4 !~ /void/ {
 print substr($3, 4, 20)
```

```
}' $xxxfiles`
: Append some common names just in case the awk scan failed.
xxx="$xxx ABRT ALRM BUS CANCEL CHLD CLD CONT DIL EMT FPE"
xxx="$xxx FREEZE HUP ILL INT IO IOT KILL LOST LWP PHONE"
xxx="$xxx PIPE POLL PROF PWR QUIT RTMAX RTMIN SEGV STKFLT STOP"
xxx="$xxx SYS TERM THAW TRAP TSTP TTIN TTOU URG USR1 USR2"
xxx="$xxx USR3 USR4 VTALRM WAITING WINCH WIND WINDOW XCPU XFSZ"

: generate a few handy files for later
$cat > signal.c <<EOCP
#include <sys/types.h>
#include <signal.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <stdio.h>
int main() {

/* Strange style to avoid
 deeply-nested #if/#else/#endif */
#ifndef NSIG
#  ifdef _NSIG
#    define NSIG (_NSIG)
#  endif
#endif

#ifndef NSIG
#  ifdef SIGMAX
#    define NSIG (SIGMAX+1)
#  endif
#endif

#ifndef NSIG
#  ifdef SIG_MAX
#    define NSIG (SIG_MAX+1)
#  endif
#endif

#ifndef NSIG
#  ifdef _SIG_MAX
#    define NSIG (_SIG_MAX+1)
#  endif
#endif

#ifndef NSIG
#  ifdef MAXSIG
#    define NSIG (MAXSIG+1)
```

```
#  endif
#endif

#ifndef NSIG
#  ifdef MAX_SIG
#    define NSIG (MAX_SIG+1)
#  endif
#endif

#ifndef NSIG
#  ifdef SIGARRAYSIZE
#    define NSIG SIGARRAYSIZE /* Assume ary[SIGARRAYSIZE] */
#  endif
#endif

#ifndef NSIG
#  ifdef _sys_nsig
#    define NSIG (_sys_nsig) /* Solaris 2.5 */
#  endif
#endif

/* Default to some arbitrary number that's big enough to get most
  of the common signals.
*/
#ifndef NSIG
#    define NSIG 50
#endif

printf("NSIG %d\n", NSIG);

#ifndef JUST_NSIG

EOCP

echo $xxx | $tr ' ' $trnl | $sort | $uniq | $awk '
{
 printf "#ifdef SIG"; printf $1; printf "\n"
 printf "printf(\"";
 printf $1; printf " %%d\\n\",SIG";
 printf $1; printf ");\n"
 printf "#endif\n"
}
END {
 printf "#endif /* JUST_NSIG */\n";
 printf "exit(0);\n}\n";
}
' >>signal.c
$cat >signal.awk <<'EOP'
```

```
BEGIN { ndups = 0 }
$1 ~ /^NSIG$/ { nsig = $2 }
($1 !~ /^NSIG$/) && (NF == 2) && ($2 ~ /^[0-9][0-9]*$/) {
   if ($2 > maxsig) { maxsig = $2 }
   if (sig_name[$2]) {
 dup_name[ndups] = $1
 dup_num[ndups] = $2
 ndups++
   }
   else {
 sig_name[$2] = $1
 sig_num[$2] = $2
   }
}
END {
   if (nsig == 0) {
    nsig = maxsig + 1
   }
   printf("NSIG %d\n", nsig);
   for (n = 1; n < nsig; n++) {
 if (sig_name[n]) {
     printf("%s %d\n", sig_name[n], sig_num[n])
 }
 else {
     printf("NUM%d %d\n", n, n)
 }
   }
   for (n = 0; n < ndups; n++) {
 printf("%s %d\n", dup_name[n], dup_num[n])
   }
}
EOP
$cat >signal_cmd <<EOS
$startsh
if $test -s signal.lst; then
   echo "Using your existing signal.lst file"
 exit 0
fi
xxx="$xxx"
EOS
?X: Avoid variable interpolation problems, especially with
?X:
 xxx, which contains newlines.
$cat >>signal_cmd <<'EOS'

set signal
if eval $compile_ok; then
 $run ./signal$_exe | ($sort -n -k 2 2>/dev/null || $sort -n +1) |\
```

```
  $uniq | $awk -f signal.awk >signal.lst
 else
  echo "(I can't seem be able to compile the whole test program)" >&4
  echo "(I'll try it in little pieces.)" >&4
  set signal -DJUST_NSIG
  if eval $compile_ok; then
   $run ./signal$_exe > signal.nsg
   $cat signal.nsg
  else
   echo "I can't seem to figure out how many signals you have." >&4
   echo "Guessing 50." >&4
   echo 'NSIG 50' > signal.nsg
  fi
  : Now look at all the signal names, one at a time.
  for xx in `echo $xxx | $tr ' ' $trnl | $sort | $uniq`; do
   $cat > signal.c <<EOCP
#include <sys/types.h>
#include <signal.h>
#include <stdio.h>
int main() {
printf("$xx %d\n", SIG${xx});
return 0;
}
EOCP
   set signal
   if eval $compile; then
    echo "SIG${xx} found."
    $run ./signal$_exe  >> signal.ls1
   else
    echo "SIG${xx} NOT found."
   fi
  done
  if $test -s signal.ls1; then
   $cat
  signal.nsg signal.ls1 |
    $sort -n | $uniq | $awk -f signal.awk >signal.lst
  fi

 fi
 if $test -s signal.lst; then
  :
 else
  echo "(AAK! I can't compile the test programs -- Guessing)" >&4
  echo 'kill -l' >signal
  set X `csh -f <signal`
  $rm -f signal
  shift
  case $# in
```

```
 0) set HUP INT QUIT ILL TRAP ABRT EMT FPE KILL BUS SEGV SYS PIPE ALRM TERM;;
 esac
 echo $@ | $tr ' ' $trnl | \
     $awk '{ printf "%s %d\n", $1, ++s; }
    END { printf "NSIG %d\n", ++s }' >signal.lst
fi
$rm -f signal.c signal$_exe signal$_o signal.nsg signal.ls1
EOS
chmod a+x signal_cmd
$eunicefix signal_cmd
;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Signal.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_fp_class.U,v $
?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_fp_class: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_fp_class:
?S: This variable conditionally defines the I_FP_CLASS symbol, and indicates
?S: whether a C program should include <fp_class.h>.
?S:.
?C:I_FP_CLASS:
?C: This symbol, if defined, indicates that <fp_class.h> exists and
?C: should be included.
?C:.
?H:#$i_fp_class I_FP_CLASS  /**/
?H:.
?LINT:set i_fp_class
: see if this is a fp_class.h system
set fp_class.h i_fp_class
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_fp_class.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Getfile.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Getfile.U,v $
?RCS: Revision 3.0.1.7  1997/02/28  15:01:06  ram
?RCS: patch61: getfile script now begins with "startsh"
?RCS:
?RCS: Revision 3.0.1.6  1995/02/15  14:11:00  ram
?RCS: patch51: was not working if ~'s allowed with d_portable on (WED)
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:11:25  ram
?RCS: patch45: added support for escaping answers to skip various checks
?RCS: patch45: modified message issued after file expansion
?RCS:
?RCS: Revision
 3.0.1.4  1994/10/29  15:53:19  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.3  1994/05/06  14:23:36  ram
?RCS: patch23: getfile could be confused by file name in "locate" requests
?RCS: patch23: new 'p' directive to assume file is in people's path (WED)
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:01:31  ram
?RCS: patch16: added metalint hint on changed 'ans' variable
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  15:46:27  ram
?RCS: patch10: minor format problems and misspellings fixed
?RCS: patch10: now performs from package dir and not from UU subdir
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to get a file name and make some sanity checks. Optionally, a ~name
?X: expansion is performed.
?X:
?X: To use this unit, $rp and $dflt must hold the question and the
?X: default answer, which will be passed as-is
 to the myread script.
?X: The $fn variable must hold the file type (f or d, for file/directory).
?X: If $gfpth is set to a list of space-separated list of directories,
```

```
?X: those are prefixes for the filename.  Unless $gfpthkeep is set to 'y',
?X: gfpth is cleared on return from Getfile.
?X:
?X: If it is followed by a ~, then ~name substitution will occur. Upon return,
?X: $ans is set with the filename value. If a / is specified, then only a full
?X: path name is accepted (but ~ substitution occurs before, if needed). The
?X: expanded path name is returned in that case.
?X:
?X: If a + is specified, the existence checks are skipped. This usually means
?X: the file/directory is under the full control of the program.
?X:
?X: If the 'n' (none) type is used, then the user may answer none.
?X: The 'e' (expand) switch may be used to bypass d_portable, expanding ~name.
?X:
?X: If the 'l' (locate) type is used, then it must end with a ':' and then a
?X: file name. If the answer is a directory,
 the file name will be appended
?X: before testing for file existence. This is useful in locate-style
?X: questions like "where is the active file?". In that case, one should
?X: use:
?X:
?X:   dflt='~news/lib'
?X:   fn='l~:active'
?X:   rp='Where is the active file?'
?X:   . ./getfile
?X:   active="$ans"
?X:
?X: If the 'p' (path) letter is specified along with 'l', then an answer
?X: without a leading / will be expected to be found in everyone's path.
?X:
?X: It is also possible to include a comma-separated list of items within
?X: parentheses to specify which items should be accepted as-is with no
?X: further checks. This is useful when for instance a full path is expected
?X: but the user may escape out via "magical" answers.
?X:
?X: If the answer to the question is 'none', then the existence checks are
?X: skipped and the empty string is returned.
?X:
?MAKE:Getfile: d_portable contains startsh Myread Filexp tr trnl
?MAKE: -pick add $@ %<
?V:ansexp:fn gfpth gfpthkeep
?F:./getfile
?T:tilde
 type what orig_rp orig_dflt fullpath already redo skip none_ok \
 value exp_file nopath_ok loc_file fp pf dir direxp
?LINT:change ans
?LINT:change gfpth
: now set up to get a file name
```

```
cat <<EOS >getfile
$startsh
EOS
cat <<'EOSC' >>getfile
tilde=''
fullpath=''
already=''
skip=''
none_ok=''
exp_file=''
nopath_ok=''
orig_rp="$rp"
orig_dflt="$dflt"
case "$gfpth" in
'') gfpth='.' ;;
esac

?X: Begin by stripping out any (...) grouping.
case "$fn" in
*\(*)
 : getfile will accept an answer from the comma-separated list
 : enclosed in parentheses even if it does not meet other criteria.
 expr "$fn" : '.*(\(.*\)).*' | $tr ',' $trnl >getfile.ok
 fn=`echo $fn | sed 's/(.*)//'`
 ;;
esac

?X: Catch up 'locate' requests early, so that we may strip the file name
?X: before looking at the one-letter commands, in case the file name contains
?X: one of them. Reported by Wayne Davison <davison@borland.com>.
case "$fn" in
*:*)
 loc_file=`expr $fn : '.*:\(.*\)'`
 fn=`expr $fn : '\(.*\):.*'`
 ;;
esac

case
 "$fn" in
*~*) tilde=true;;
esac
case "$fn" in
*/*) fullpath=true;;
esac
case "$fn" in
*+*) skip=true;;
esac
case "$fn" in
```

```
*n*) none_ok=true;;
esac
case "$fn" in
*e*) exp_file=true;;
esac
case "$fn" in
*p*) nopath_ok=true;;
esac

case "$fn" in
*f*) type='File';;
*d*) type='Directory';;
*l*) type='Locate';;
esac

what="$type"
case "$what" in
Locate) what='File';;
esac

case "$exp_file" in
")
 case "$d_portable" in
 "$define") ;;
 *) exp_file=true;;
 esac
 ;;
esac

cd ..
while test "$type"; do
 redo="
 rp="$orig_rp"
 dflt="$orig_dflt"
 case "$tilde" in
 true) rp="$rp (~name ok)";;
 esac
 . UU/myread
?X: check for allowed escape sequence which may be accepted verbatim.
 if test -f UU/getfile.ok && \
  $contains "^$ans\$" UU/getfile.ok >/dev/null 2>&1
 then
  value="$ans"
  ansexp="$ans"
  break
 fi
 case "$ans" in
 none)
```

```
 value="
 ansexp="
 case "$none_ok" in
 true) type=";;
 esac
 ;;
*)
 case "$tilde" in
 ") value="$ans"
  ansexp="$ans";;
 *)
  value=`UU/filexp $ans`
  case
$? in
  0)
   if test "$ans" != "$value"; then
    echo "(That expands to $value on this system.)"
   fi
   ;;
  *) value="$ans";;
  esac
  ansexp="$value"
  case "$exp_file" in
  ") value="$ans";;
  esac
  ;;
 esac
 case "$fullpath" in
 true)
?X: Perform all the checks on ansexp and not value since when d_portable
?X: is defined, the original un-expanded answer which is stored in value
?X: would lead to "non-existent" error messages whilst ansexp has been
?X: properly expanded. -- Fixed by Jan.Djarv@sa.erisoft.se (Jan Djarv)
?X: Always expand ~user if '/' was requested
  case "$ansexp" in
  /*) value="$ansexp" ;;
?X: Allow for c:/some/path
  [a-zA-Z]:/*) value="$ansexp" ;;
  *)
   redo=true
   case "$already" in
   true)
   echo "I shall only accept a full path name, as in /bin/ls." >&4
   echo "Use a ! shell escape if you wish to check pathnames." >&4
    ;;
   *)
   echo "Please give a full path name, starting with slash." >&4
    case "$tilde"
```

```
in
    true)
   echo "Note that using ~name is ok provided it expands well." >&4
     already=true
     ;;
    esac
   esac
   ;;
  esac
  ;;
 esac
 case "$redo" in
 ")
  case "$type" in
  File)
   for fp in $gfpth; do
    if test "X$fp" = X.; then
        pf="$ansexp"
    else
        pf="$fp/$ansexp"
    fi
    if test -f "$pf"; then
     type="
    elif test -r "$pf" || (test -h "$pf") >/dev/null 2>&1
    then
     echo "($value is not a plain file, but that's ok.)"
     type="
    fi
    if test X"$type" = X; then
        value="$pf"
        break
    fi
   done
   ;;
  Directory)
   for fp in $gfpth; do
    if test "X$fp" = X.; then
        dir="$ans"
        direxp="$ansexp"
    else
        dir="$fp/$ansexp"
        direxp="$fp/$ansexp"
    fi
    if test -d "$direxp"; then
     type="
     value="$dir"
     break
    fi
```

```
  done
  ;;
 Locate)
  if test -d "$ansexp"; then
   echo "(Looking for $loc_file in directory
$value.)"
   value="$value/$loc_file"
   ansexp="$ansexp/$loc_file"
  fi
  if test -f "$ansexp"; then
   type="
  fi
  case "$nopath_ok" in
  true) case "$value" in
   */*) ;;
   *) echo "Assuming $value will be in people's path."
    type="
    ;;
   esac
   ;;
  esac
  ;;
 esac

 case "$skip" in
 true) type=";
 esac

 case "$type" in
 ") ;;
 *)
  if test "$fastread" = yes; then
   dflt=y
  else
   dflt=n
  fi
  rp="$what $value doesn't exist.  Use that name anyway?"
  . UU/myread
  dflt="
  case "$ans" in
  y*) type=";;
  *) echo " ";;
  esac
  ;;
 esac
 ;;
esac
;;
```

```
 esac
done
cd UU
ans="$value"
rp="$orig_rp"
dflt="$orig_dflt"
rm -f getfile.ok
test "X$gfpthkeep" != Xy && gfpth=""
EOSC
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Getfile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sighold.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sighold.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:21  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sighold: Inlibc
?MAKE: -pick add $@ %<
?S:d_sighold:
?S: This variable conditionally defines HAS_SIGHOLD if sighold() is
?S: available to hold signals.
?S:.
?C:HAS_SIGHOLD:
?C: This symbol, if defined, indicates that the sighold routine is
?C: available to hold signals.
?C:.
?H:#$d_sighold HAS_SIGHOLD /**/
?H:.
?LINT:set d_sighold
:
 see if sighold exists
set sighold d_sighold
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sighold.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: install.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: install.U,v $
?RCS: Revision 3.0.1.2  1995/09/25  09:16:37  ram
?RCS: patch59: all possible install programs are now looked for
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:30:41  ram
?RCS: patch45: created
?RCS:
?MAKE:install installdir: Loc Oldconfig Getfile cat test startsh rm +cc \
 eunicefix package contains mkdir echo n c
?MAKE: -pick add $@ %<
?S:install:
?S: This variable contains the name of an install program that can accept
?S: BSD-style arguments.
 It must correctly support -c, -s, and -m at least.
?S: It is a fully qualified pathname when found. If you have a local
?S: install.SH file at the root directory of your package, it is assumed to
?S: be the default script emulating a BSD install and the variable will be
?S: set to ./install. Otherwise, it is set to plain 'install', relying on
?S: the user's PATH to perform miracles.
?S:.
?S:installdir:
?S: This variable contains the name of a program that can install nested
?S: directories. Often set to 'mkdir -p', it can also be 'install -d' if
?S: you have such a beast and lack the former. If you have an install.SH
?S: file at the root directory of your package, it will be used in last
?S: resort, setting the variable to './install -d'. Otherwise, it is set to
?S: plain 'mkdir', and cross your fingers!
?S:.
?T:dir file tryit prog creatdir either
?F:!tryinst
: locate a BSD compatible install program
echo " "
echo "Looking for a BSD-compatible install program..." >&4
@if installdir
```

```
creatdir=''
@end
case
 "$install" in
'')
 tryit=''
 for dir in $pth; do
  for file in ginstall installbsd scoinst install; do
   if $test -f $dir/$file; then
    tryit="$tryit $dir/$file"
   fi
  done
 done
 $cat >try.c <<EOC
int main()
{
 printf("OK\n");
 exit(0);
}
EOC
 if $cc -o try try.c >/dev/null 2>&1; then
  cp try try.ns
  strip try >/dev/null 2>&1
 else
  echo "(I can't seem to compile a trivial C program -- bypassing.)"
  echo "try" >try
  cp try try.ns
 fi
 $cat >tryinst <<EOS
$startsh
$rm -rf foo d
@if installdir
\$1 -d foo/bar
@end
$mkdir d
\$1 -c -m 764 try.ns d
\$1 -c -s -m 642 try.ns d/try
EOS
 chmod +x tryinst
 $eunicefix tryinst
 dflt=''
 either=''
 for prog in $tryit; do
  $echo $n "Checking $prog... $c"
  ./tryinst $prog >/dev/null 2>&1
@if installdir
  if $test -d foo/bar; then
   creatdir="$prog -d"
```

```
  fi
@end
  (ls -l d/try >try.ls; ls -l d/try.ns >tryno.ls) 2>/dev/null
  if (cmp -s d/try try && cmp -s d/try.ns try.ns && \
   $contains 'rwxrw-r--' tryno.ls &&
 \
   $contains 'rw-r---w-' try.ls) >/dev/null 2>&1
  then
   dflt="$prog"
   echo "ok, that will do."
   break
  fi
  echo "not good$either."
  either=' either'
  $rm -f try*.ls
 done
 $rm -rf foo d tryinst try try*.ls try.*
 case "$dflt" in
 ")
@if {test -f ../install.SH}
  echo "Hopefully, $package comes with its own install script!"
  dflt='./install'
@else
  dflt='install'
@end
  ;;
 esac
 ;;
*) dflt="$install";;
esac
$cat <<EOM

I will be requiring a BSD-compatible install program (one that allows
options like -s to strip executables or -m to specify a file mode) to
install $package.

If the question below contains a fully qualified default path, then it
is probably ok. If it is an unqualified name such as 'install', then it
means I was unable to find out a good install program I could use. If
@if {test -f ../install.SH}
you know of one, please tell me about it. If the default is './install',
then I shall be using the install script supplied with $package.
@else
you know of one,
 please tell me about it.
@end

EOM
```

```
@if {test -f ../install.SH}
fn='/fe~(install,./install)'
@else
fn='/fe~(install)'
@end
rp='Which install program shall I use?'
. ./getfile
install="$ans"

@if installdir
: how can we create nested directories?
echo " "
echo "Ok, let's see how we can create nested directories..." >&4
case "$installdir" in
")
?X: First time, maybe we already found out a working one in $creatdir above...
?X: Prefer "mkdir -p" because of bugs in GNU install when not running as root
 $mkdir -p foo/bar >/dev/null 2>&1
 if $test -d foo/bar; then
  echo "Great, we can build them using 'mkdir -p'."
  creatdir='mkdir -p'
 else
  case "$creatdir" in
  ")
   if eval "$install -d foo/bar"; $test -d foo/bar; then
    creatdir="install -d"
    echo "It looks like '$creatdir' will do it for us."
   fi
   ;;
  *)
   eval "$creatdir foo/bar" >/dev/null 2>&1
   if $test -d foo/bar; then
    echo "Ah! We can use '$creatdir' to do just that."
   else
    creatdir="
   fi
   ;;
  esac
 fi
 $rm
 -rf foo
 case "$creatdir" in
 ")
  echo "Heck! Another ancient system lacking the comfort of modern ones!"
@if {test -f ../install.SH}
  echo "You can thank $package for bringing you its own install script!"
  installdir='./install -d'
@else
```

```
  echo "We have no choice but to use plain old 'mkdir' -- wish me luck!"
  installdir=mkdir
@end
  ;;
 *) installdir="$creatdir";;
 esac
 ;;
*) echo "As you already told me, '$installdir' should work.";;
esac

@end
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/install.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_chown.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_chown.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:14  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_chown: Inlibc
?MAKE: -pick add $@ %<
?S:d_chown:
?S: This variable conditionally defines the HAS_CHOWN symbol, which
?S: indicates to the C program that the chown() routine is available.
?S:.
?C:HAS_CHOWN :
?C: This symbol, if defined, indicates that the chown routine is
?C: available.
?C:.
?H:#$d_chown
 HAS_CHOWN  /**/
?H:.
?LINT:set d_chown
: see if chown exists
```

```
set chown d_chown
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_chown.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: newsspool.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: newsspool.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:newsspool newsspoolexp: Getfile Oldconfig
?MAKE: -pick add $@ %<
?S:newsspool:
?S: This variable contains the eventual value of the NEWSSPOOL symbol,
?S: which is the directory name where news articles are spooled.  It
?S: may have a ~ on the front of it.
?S:.
?S:newsspoolexp:
?S: This is the same as the newsspool variable, but is
 filename expanded
?S: at configuration time, for programs not wanting to deal with it at
?S: run-time.
?S:.
?C:NEWSSPOOL:
?C: This symbol contains the directory name where news articles are
?C: spooled.  The program must be prepared to do ~ expansion on it.
?C:.
?C:NEWSSPOOL_EXP:
?C: This is the same as NEWSSPOOL, but is filename expanded at
?C: configuration time, for use in programs not willing to do so
?C: at run-time.
?C:.
?H:#define NEWSSPOOL "$newsspool" /**/
?H:#define NEWSSPOOL_EXP "$newsspoolexp" /**/
?H:.
: locate news spool directory
```

```
case "$newsspool" in
")
 dflt=/usr/spool/news
 ;;
*) dflt="$newsspool";;
esac
echo " "
fn=d~
rp='Where are news spooled?'
. ./getfile
newsspool="$ans"
newsspoolexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/newsspool.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_memcpy.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memcpy.U,v $
?RCS: Revision 3.0.1.1  1993/09/13  16:02:58  ram
?RCS: patch10: removed text recommending bcopy over memcpy (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:34  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_memcpy: Inlibc
?MAKE: -pick add $@ %<
?S:d_memcpy:
?S: This variable conditionally defines the HAS_MEMCPY symbol, which
?S: indicates to the C program that the memcpy() routine is available
?S: to copy blocks of
 memory.
?S:.
?C:HAS_MEMCPY (MEMCPY):
?C: This symbol, if defined, indicates that the memcpy routine is available
?C: to copy blocks of memory.
?C:.
?H:#$d_memcpy HAS_MEMCPY /**/
```

```
?H:.
?LINT:set d_memcpy
: see if memcpy exists
set memcpy d_memcpy
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_memcpy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: mallocsrc.U,v 3.0.1.2 1997/02/28 16:10:26 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: mallocsrc.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:10:26  ram
?RCS: patch61: added support for Free_t, the type of free()
?RCS: patch61: replaced .o with $_o all over the place
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:10:46  ram
?RCS: patch23: added support for MYMALLOC, mainly  for perl5 (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:12  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:mallocsrc mallocobj usemallocwrap usemymalloc
 malloctype d_mymalloc \
 freetype: Myread \
 Oldconfig package Guess Setvar rm cat +cc +ccflags Findhdr \
 i_malloc i_stdlib sed libs _o ptrsize useithreads
?MAKE: -pick add $@ %<
?X: Put near top so that other tests don't erroneously include
?X: -lmalloc.  --AD  22 June 1998
?Y:TOP
?S:usemymalloc:
?S: This variable contains y if the malloc that comes with this package
?S: is desired over the system's version of malloc.  People often include
?S: special versions of malloc for efficiency, but such versions are often
?S: less portable.  See also mallocsrc and mallocobj.
?S: If this is 'y', then -lmalloc is removed from $libs.
?S:.
```

```
?S:usemallocwrap:
?S: This variable contains y if we are wrapping malloc to prevent
?S: integer overflow during size calculations.
?S:.
?S:mallocsrc:
?S: This variable contains the name of the malloc.c that comes with
?S: the package, if that malloc.c is preferred over the system malloc.
?S: Otherwise the value is null.  This variable is intended for generating
?S: Makefiles.
?S:.
?S:d_mymalloc:
?S: This
 variable conditionally defines MYMALLOC in case other parts
?S: of the source want to take special action if MYMALLOC is used.
?S: This may include different sorts of profiling or error detection.
?S:.
?S:mallocobj:
?S: This variable contains the name of the malloc.o that this package
?S: generates, if that malloc.o is preferred over the system malloc.
?S: Otherwise the value is null.  This variable is intended for generating
?S: Makefiles.  See mallocsrc.
?S:.
?S:freetype:
?S: This variable contains the return type of free().  It is usually
?S: void, but occasionally int.
?S:.
?S:malloctype:
?S: This variable contains the kind of ptr returned by malloc and realloc.
?S:.
?C:Free_t:
?C: This variable contains the return type of free().  It is usually
?C: void, but occasionally int.
?C:.
?C:Malloc_t (MALLOCPTRTYPE):
?C: This symbol is the type of pointer returned by malloc and realloc.
?C:.
?H:#define Malloc_t $malloctype   /**/
?H:#define Free_t
 $freetype   /**/
?H:.
?C:PERL_MALLOC_WRAP:
?C: This symbol, if defined, indicates that we'd like malloc wrap checks.
?C:.
?H:#$usemallocwrap PERL_MALLOC_WRAP  /**/
?H:.
?C:MYMALLOC:
?C: This symbol, if defined, indicates that we're using our own malloc.
?C:.
```

```
?H:#$d_mymalloc MYMALLOC   /**/
?H:.
?LINT:extern usedevel
?LINT:change libs
?X: Cannot test for mallocsrc; it is the unit's name and there is a bug in
?X: the interpreter which defines all the names, even though they are not used.
@if mallocobj
: determine whether to use malloc wrapping
echo " "
case "$usemallocwrap" in
[yY]*|true|$define) dflt='y' ;;
[nN]*|false|$undef) dflt='n' ;;
*) case "$usedevel" in
 [yY]*|true|$define) dflt='y' ;;
 *) dflt='n' ;;
 esac
 ;;
esac
rp="Do you wish to wrap malloc calls to protect against potential overflows?"
. ./myread
usemallocwrap="$ans"
case "$ans" in
y*|true)
 usemallocwrap="$define" ;;
*)
 usemallocwrap="$undef" ;;
esac

: determine which malloc to compile in
echo " "
case "$usemymalloc"
 in
[yY]*|true|$define) dflt='y' ;;
[nN]*|false|$undef) dflt='n' ;;
*) case "$ptrsize" in
 4) dflt='y' ;;
 *) dflt='n' ;;
 esac
 if test "$useithreads" = "$define"; then dflt='n'; fi
 ;;
esac
rp="Do you wish to attempt to use the malloc that comes with $package?"
. ./myread
usemymalloc="$ans"
case "$ans" in
y*|true)
 usemymalloc='y'
 mallocsrc='malloc.c'
```

```
 mallocobj="malloc$_o"
 d_mymalloc="$define"
?X: Maybe libs.U should be dependent on mallocsrc.U, but then
?X: most packages that use dist probably don't supply their own
?X: malloc, so this is probably an o.k. compromise
 case "$libs" in
 *-lmalloc*)
  : Remove malloc from list of libraries to use
  echo "Removing unneeded -lmalloc from library list" >&4
  set `echo X $libs | $sed -e 's/-lmalloc / /' -e 's/-lmalloc$//'`
  shift
  libs="$*"
  echo "libs = $libs" >&4
  ;;
 esac
 ;;
*)
 usemymalloc='n'
 mallocsrc=''
 mallocobj=''
 d_mymalloc="$undef"
 ;;
esac

@end
@if MALLOCPTRTYPE || Malloc_t || Free_t
: compute the return types of
 malloc and free
echo " "
$cat >malloc.c <<END
#$i_malloc I_MALLOC
#$i_stdlib I_STDLIB
#include <stdio.h>
#include <sys/types.h>
#ifdef I_MALLOC
#include <malloc.h>
#endif
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#ifdef TRY_MALLOC
void *malloc();
#endif
#ifdef TRY_FREE
void free();
#endif
END
@if MALLOCPTRTYPE || Malloc_t
```

```
case "$malloctype" in
")
 if $cc $ccflags -c -DTRY_MALLOC malloc.c >/dev/null 2>&1; then
  malloctype='void *'
 else
  malloctype='char *'
 fi
 ;;
esac
echo "Your system wants malloc to return '$malloctype', it would seem." >&4
@end

@if Free_t
case "$freetype" in
")
 if $cc $ccflags -c -DTRY_FREE malloc.c >/dev/null 2>&1; then
  freetype='void'
 else
  freetype='int'
 fi
 ;;
esac
echo "Your system uses $freetype free(), it would seem." >&4
@end
$rm -f malloc.[co]
@end
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/mallocsrc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Extensions.U,v$
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: Extensions.U,v $
?RCS:
?MAKE:known_extensions extensions dynamic_ext static_ext nonxs_ext \
 useposix useopcode uselanginfo : \
 Myread hint usedl d_sem d_socket i_db i_dbm i_rpcsvcdbm i_gdbm \
 d_ndbm package test cat rsrc \
 d_msg d_shm osname use64bitint \
 libs d_cplusplus sed ls rm contains trnl sort
?MAKE: -pick add $@ %<
```

```
?Y:BOTTOM
?S:known_extensions:
?S: This variable holds a list of all extensions (both XS and non-xs)
?S: included in the package source distribution.  This information is
?S: only really of use during the Perl build, as the list makes no
?S: distinction between extensions which were build and installed, and
?S: those which where not.  See "extensions"
 for the list of extensions
?S: actually built and available.
?S:.
?S:dynamic_ext:
?S: This variable holds a list of XS extension files we want to
?S: link dynamically into the package.  It is used by Makefile.
?S:.
?S:static_ext:
?S: This variable holds a list of XS extension files we want to
?S: link statically into the package.  It is used by Makefile.
?S:.
?S:nonxs_ext:
?S: This variable holds a list of all non-xs extensions built and
?S: installed by the package.  By default, all non-xs extensions
?S: distributed will be built, with the exception of platform-specific
?S: extensions (currently only one VMS specific extension).
?S:.
?S:extensions:
?S: This variable holds a list of all extension files (both XS and
?S: non-xs) installed with the package.  It is propagated to Config.pm
?S: and is typically used to test whether a particular extension
?S: is available.
?S:.
?S:useposix:
?S: This variable holds either 'true' or 'false' to indicate
?S: whether the POSIX extension should
 be used.  The sole
?S: use for this currently is to allow an easy mechanism
?S: for hints files to indicate that POSIX will not compile
?S: on a particular system.
?S:.
?S:useopcode:
?S: This variable holds either 'true' or 'false' to indicate
?S: whether the Opcode extension should be used.  The sole
?S: use for this currently is to allow an easy mechanism
?S: for users to skip the Opcode extension from the Configure
?S: command line.
?S:.
?S:uselanginfo:
?S: This variable holds either 'true' or 'false' to indicate
?S: whether the I18N::Langinfo extension should be used.  The sole
```

```
?S: use for this currently is to allow an easy mechanism for users to skip
?S: this extension from the Configure command line.
?S:.
?T:xxx avail_ext this_ext tdir xs_extensions nonxs_extensions find_extensions
?INIT:: set useposix=false in your hint file to disable the POSIX extension.
?INIT:useposix=true
?INIT:: set useopcode=false in your hint file to disable the Opcode extension.
?INIT:useopcode=true
?INIT::
 set uselanginfo=false in your hint file to disable the I18N::Langinfo extension.
?INIT:uselanginfo=true
?LINT:extern noextensions
?LINT:extern onlyextensions
?T:keepextensions i
: Check extensions
echo " "
echo "Looking for extensions..." >&4
: If we are using the old config.sh, nonxs_extensions and xs_extensions may
: contain old or inaccurate or duplicate values.
nonxs_extensions="
xs_extensions="
: We do not use find because it might not be available.
: We do not just use MANIFEST because the user may have dropped
: some additional extensions into the source tree and expect them
: to be built.

: Function to recursively find available extensions, ignoring DynaLoader
: NOTE: recursion limit of 10 to prevent runaway in case of symlink madness
: In 5.10.1 and later, extensions are stored in directories
: like File-Glob instead of the older File/Glob/.
find_extensions='
   for xxx in *; do
 case "$xxx" in
     DynaLoader|dynaload) ;;
     *)
     this_ext=`echo "$xxx" | $sed -e s/-/\\\/g`;

    case "$this_ext" in
  Scalar/List/Utils) this_ext="List/Util" ;;
  PathTools)         this_ext="Cwd" ;;
     esac;
     echo " $xs_extensions $nonxs_extensions" > "$tdir/$$.tmp";
     if $contains " $this_ext " "$tdir/$$.tmp"; then
  echo >&4;
  echo "Duplicate directories detected for extension $xxx" >&4;
  echo "Configure cannot correctly recover from this - shall I abort?" >&4;
  case "$knowitall" in
  "") dflt=y;;
```

```
  *) dflt=n;;
  esac;
  . ../UU/myread;
  case "$ans" in
  n*|N*) ;;
  *) echo >&4;
      echo "Ok.  Stopping Configure." >&4;
      echo "Please remove the duplicate directory (e.g. using git clean) and then re-run Configure" >&4;
      exit 1;;
  esac;
  echo "Ok.  You will need to correct config.sh before running make." >&4;
     fi;
     $ls -1 "$xxx" > "$tdir/$$.tmp";
     if   $contains "\.xs$" "$tdir/$$.tmp" > /dev/null 2>&1; then
  xs_extensions="$xs_extensions $this_ext";
     elif $contains "\.c$"  "$tdir/$$.tmp" > /dev/null 2>&1; then
  xs_extensions="$xs_extensions
 $this_ext";
     elif $test -d "$xxx"; then
  nonxs_extensions="$nonxs_extensions $this_ext";
     fi;
     $rm -f "$tdir/$$.tmp";
     ;;
 esac;
   done'
tdir=`pwd`
cd "$rsrc/cpan"
set X
shift
eval $find_extensions
cd "$rsrc/dist"
set X
shift
eval $find_extensions
cd "$rsrc/ext"
set X
shift
eval $find_extensions
set X $xs_extensions
shift
xs_extensions=`echo "$*" | tr ' ' $trnl | $sort | tr $trnl ' '`
set X $nonxs_extensions
shift
nonxs_extensions=`echo "$*" | tr ' ' $trnl | $sort | tr $trnl ' '`
cd "$tdir"
known_extensions=`echo $nonxs_extensions $xs_extensions  | tr ' ' $trnl | $sort | tr $trnl ' '`

: Now see which are supported on this system.
```

```
?X: avail_ext lists available XS extensions.
avail_ext="
for xxx in $xs_extensions ; do
 case "$xxx" in
?X: Handle possible DOS 8.3 filename and case alterations
 Amiga*)
  case "$osname" in
  amigaos) avail_ext="$avail_ext $xxx" ;;
  esac
  ;;
 DB_File|db_file)
  case "$i_db" in
  $define) avail_ext="$avail_ext $xxx"
 ;;
  esac
  ;;
 GDBM_File|gdbm_fil)
  case "$i_gdbm" in
  $define) avail_ext="$avail_ext $xxx" ;;
  esac
  ;;
 IPC/SysV|ipc/sysv)
  : XXX Do we need a useipcsysv variable here
  case "${d_msg}${d_sem}${d_shm}" in
  *"${define}"*) avail_ext="$avail_ext $xxx" ;;
  esac
  ;;
 NDBM_File|ndbm_fil)
  case "$d_ndbm" in
  $define)
      case "$osname-$use64bitint" in
      hpux-define)
   case "$libs" in
   *-lndbm*) avail_ext="$avail_ext $xxx" ;;
   esac
   ;;
      *) avail_ext="$avail_ext $xxx" ;;
      esac
      ;;
  esac
  ;;
 ODBM_File|odbm_fil)
  case "${i_dbm}${i_rpcsvcdbm}" in
  *"${define}"*)
      case "$d_cplusplus" in
      define) ;; # delete as a function name will not work
      *)  case "$osname-$use64bitint" in
   hpux-define)
```

```
      case "$libs" in
      *-ldbm*) avail_ext="$avail_ext $xxx" ;;
      esac
      ;;
  *) avail_ext="$avail_ext $xxx" ;;
  esac
  ;;
     esac
     ;;
 esac
 ;;
Opcode|opcode)
 case "$useopcode" in
 true|define|y) avail_ext="$avail_ext
$xxx" ;;
 esac
 ;;
POSIX|posix)
 case "$useposix" in
 true|define|y) avail_ext="$avail_ext $xxx" ;;
 esac
 ;;
Socket|socket)
 case "$d_socket" in
 true|$define|y) avail_ext="$avail_ext $xxx" ;;
 esac
 ;;
I18N/Langinfo|langinfo)
 case "$uselanginfo" in
 true|define|y) avail_ext="$avail_ext $xxx" ;;
 esac
 ;;
Sys/Syslog|sys/syslog)
 case $osname in
  amigaos) ;; # not really very useful on AmigaOS
  *)
  : XXX syslog requires socket
  case "$d_socket" in
  true|$define|y) avail_ext="$avail_ext $xxx" ;;
  esac
  ;;
 esac
 ;;
threads|threads/shared)
 # threads and threads::shared are special cases.
 # To stop people from asking "Perl 5.8.0 was supposed
 # to have this new fancy threads implementation but my
 # perl doesn't have it" and from people trying to
```

```
 # (re)install the threads module using CPAN.pm and
 # CPAN.pm then offering to reinstall Perl 5.8.0,
 # the threads.pm and threads/shared.pm will always be
 # there, croaking informatively ("you
need to rebuild
 # all of Perl with threads, sorry") when threads haven't
 # been compiled in.
 # --jhi
 avail_ext="$avail_ext $xxx"
 ;;
VMS*)
 ;;
Win32*)
 case "$osname" in
 cygwin) avail_ext="$avail_ext $xxx" ;;
 esac
 ;;
XS/APItest|xs/apitest)
 # This is just for testing.  Skip it unless we have dynamic loading.

 case "$usedl" in
 $define) avail_ext="$avail_ext $xxx" ;;
 esac
 ;;
XS/Typemap|xs/typemap)
 # This is just for testing.  Skip it unless we have dynamic loading.
 case "$usedl" in
 $define) avail_ext="$avail_ext $xxx" ;;
 esac
 ;;
*) avail_ext="$avail_ext $xxx"
 ;;
esac
done

set X $avail_ext
shift
avail_ext="$*"

case "$onlyextensions" in
") ;;
*)  keepextensions="
  echo "You have requested that only certain extensions be included..." >&4
  for i in $onlyextensions; do
      case " $avail_ext " in
      *" $i "*)
          echo "Keeping extension $i."
          keepextensions="$keepextensions $i"
```

```
          ;;
       *) echo "Ignoring
 extension $i." ;;
       esac
   done
   avail_ext="$keepextensions"
   ;;
esac

case "$noextensions" in
") ;;
*)  keepextensions="
   echo "You have requested that certain extensions be ignored..." >&4
   for i in $avail_ext; do
       case " $noextensions " in
       *" $i "*) echo "Ignoring extension $i." ;;
       *) echo "Keeping extension $i.";
          keepextensions="$keepextensions $i"
          ;;
       esac
   done
   avail_ext="$keepextensions"
   ;;
esac

: Now see which nonxs extensions are supported on this system.
: For now assume all are.
nonxs_ext="
for xxx in $nonxs_extensions ; do
 case "$xxx" in
 VMS*)
  ;;
 *) nonxs_ext="$nonxs_ext $xxx"
  ;;
 esac
done

set X $nonxs_ext
shift
nonxs_ext="$*"

case $usedl in
$define)
 $cat <<EOM
A number of extensions are supplied with $package.  You may choose to
compile these extensions for dynamic loading (the default), compile
them into the $package executable (static loading), or not include
them at all.
```

```
  Answer "none" to include no extensions.
Note that DynaLoader is always built and need not be mentioned here.

EOM
 case "$dynamic_ext" in
 ")
  : Exclude those listed in static_ext
  dflt="
  for xxx in $avail_ext; do
   case " $static_ext " in
   *" $xxx "*) ;;
   *) dflt="$dflt $xxx" ;;
   esac
  done
  set X $dflt
  shift
  dflt="$*"
  ;;
 *) dflt="$dynamic_ext"
  # Perhaps we are reusing an old out-of-date config.sh.
  case "$hint" in
  previous)
   if test X"$dynamic_ext" != X"$avail_ext"; then
    $cat <<EOM
NOTICE:  Your previous config.sh list may be incorrect.
The extensions now available to you are
 ${avail_ext}
but the default list from your previous config.sh is
 ${dynamic_ext}

EOM
   fi
   ;;
  esac
  ;;
 esac
 case "$dflt" in
 ") dflt=none;;
 esac
 rp="What extensions do you wish to load dynamically?"
 . ./myread
 case "$ans" in
?X: Use ' ' so a subsequent Configure will preserve that value.
 none) dynamic_ext=' ' ;;
 *) dynamic_ext="$ans" ;;
 esac

 case "$static_ext"
```

```
 in
 ")
  : Exclude those already listed in dynamic linking
  dflt=''
  for xxx in $avail_ext; do
   case " $dynamic_ext " in
   *" $xxx "*) ;;
   *) dflt="$dflt $xxx" ;;
   esac
  done
  set X $dflt
  shift
  dflt="$*"
  ;;
 *)  dflt="$static_ext"
  ;;
 esac

 case "$dflt" in
 ") dflt=none;;
 esac
 rp="What extensions do you wish to load statically?"
 . ./myread
 case "$ans" in
?X: Use ' ' so a subsequent Configure will preserve that value.
 none) static_ext=' ' ;;
 *) static_ext="$ans" ;;
 esac
 ;;
*)
 $cat <<EOM
A number of extensions are supplied with $package.  Answer "none"
to include no extensions.
Note that DynaLoader is always built and need not be mentioned here.

EOM
 case "$static_ext" in
 ") dflt="$avail_ext" ;;
 *) dflt="$static_ext"
  # Perhaps we are reusing an old out-of-date config.sh.
  case "$hint" in
  previous)
   if test X"$static_ext" != X"$avail_ext"; then
    $cat <<EOM
NOTICE:  Your previous config.sh list may be incorrect.
The extensions now available
 to you are
 ${avail_ext}
```

```
but the default list from your previous config.sh is
 ${static_ext}

EOM
   fi
   ;;
  esac
  ;;
 esac
 : Exclude those that are not xs extensions
 case "$dflt" in
 ") dflt=none;;
 esac
 rp="What extensions do you wish to include?"
 . ./myread
 case "$ans" in
?X: Use ' ' so a subsequent Configure will preserve that value.
 none) static_ext=' ' ;;
 *) static_ext="$ans" ;;
 esac
 ;;
esac
#
# Encode is a special case.  If we are building Encode as a static
# extension, we need to explicitly list its subextensions as well.
# For other nested extensions, this is handled automatically by
# the appropriate Makefile.PL.
case " $static_ext " in
 *" Encode "*) # Add the subextensions of Encode
 cd "$rsrc/cpan"
 for xxx in `ls Encode/*/Makefile.PL|awk -F/ '{print $2}'`; do
  static_ext="$static_ext Encode/$xxx"
  known_extensions="$known_extensions Encode/$xxx"
 done
 cd "$tdir"
 ;;
esac

set X $dynamic_ext $static_ext $nonxs_ext
shift
extensions="$*"

# Sanity check:
  We require an extension suitable for use with
# AnyDBM_File, as well as Fcntl and IO.  (Failure to have these
# should show up as failures in the test suite, but it's helpful to
# catch them now.) The 'extensions' list is normally sorted
# alphabetically, so we need to accept either
```

```
#    DB_File ... Fcntl ... IO  ....
# or something like
#    Fcntl ... NDBM_File ... IO  ....
case " $extensions"  in
*"_File "*" Fcntl "*" IO "*) ;; # DB_File
*" Fcntl "*"_File "*" IO "*) ;; # GDBM_File
*" Fcntl "*" IO "*"_File "*) ;; # NDBM_File
*) echo "WARNING: Extensions DB_File or *DBM_File, Fcntl, and IO not configured." >&4
  echo "WARNING: The Perl you are building will be quite crippled." >& 4
  ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/Extensions.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getprotby.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getpbyname d_getpbynumber: Inlibc
?MAKE: -pick add $@ %<
?S:d_getpbyname:
?S: This variable conditionally defines the HAS_GETPROTOBYNAME
?S: symbol, which indicates to the C program that the
?S: getprotobyname() routine is available to look up protocols
?S: by their name.
?S:.
?S:d_getpbynumber:
?S: This variable conditionally defines the HAS_GETPROTOBYNUMBER
?S: symbol, which indicates to the C program that the
?S: getprotobynumber() routine is available to look up protocols
?S: by their number.
?S:.
?C:HAS_GETPROTOBYNAME:
?C: This symbol, if defined, indicates that the getprotobyname()
?C: routine is available to look up protocols by their name.
?C:.
?C:HAS_GETPROTOBYNUMBER:
?C: This
 symbol, if defined, indicates that the getprotobynumber()
?C: routine is available to look up protocols by their number.
?C:.
?H:#$d_getpbyname HAS_GETPROTOBYNAME  /**/
```

```
?H:#$d_getpbynumber HAS_GETPROTOBYNUMBER  /**/
?H:.
?LINT:set d_getpbyname d_getpbynumber
: Optional checks for getprotobyname and getprotobynumber

@if d_getpbyname || HAS_GETPROTOBYNAME
: see if getprotobyname exists
set getprotobyname d_getpbyname
eval $inlibc
@end

@if d_getpbynumber || HAS_GETPROTOBYNUMBER
: see if getprotobynumber exists
set getprotobynumber d_getpbynumber
eval $inlibc
@end
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_getprotby.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorbin.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorbin.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:d_vendorbin vendorbin vendorbinexp installvendorbin: Getfile \
 Setprefixvar Oldconfig Prefixit vendorprefix
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorbin:
?S: This variable contains the eventual value of the VENDORBIN symbol.
?S: It may have a ~ on the front.
?S: The standard distribution will put nothing in this directory.
?S: Vendors who distribute perl
 may wish to place additional
?S: binaries in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
```

```
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorbinexp:
?S: This variable is the ~name expanded version of vendorbin, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorbin="
?S:installvendorbin:
?S: This variable is really the same as vendorbinexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?S:d_vendorbin:
?S: This variable conditionally defines PERL_VENDORBIN.
?S:.
?C:PERL_VENDORBIN:
?C: If defined, this symbol contains the name of a directory
?C: for holding vendor-supplied executables.
?C: It may have a ~ on the front.
?C: The standard distribution will put nothing in this directory.
?C: Vendors who distribute perl may wish to place additional
?C: binaries in this directory with
?C:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?C: or equivalent.
  See INSTALL for details.
?C:.
?C:PERL_VENDORBIN_EXP:
?C: This symbol contains the ~name expanded version of VENDORBIN, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#$d_vendorbin PERL_VENDORBIN "$vendorbin"  /**/
?H:#$d_vendorbin PERL_VENDORBIN_EXP "$vendorbinexp"  /**/
?H:.
?LINT:change prefixvar
?LINT:set installvendorbin
: Set the vendorbin variables
case "$vendorprefix" in
") d_vendorbin="$undef"
 vendorbin="
 vendorbinexp="
 ;;
*) d_vendorbin="$define"
 : determine where vendor-supplied executables go.
 case "$vendorbin" in
 ") dflt=$vendorprefix/bin ;;
 *) dflt="$vendorbin" ;;
 esac
 fn=d~+
```

```
 rp='Pathname for the vendor-supplied executables directory?'
 . ./getfile
 vendorbin="$ans"
 vendorbinexp="$ansexp"
 ;;
esac
prefixvar=vendorbin
. ./installprefix
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/vendorbin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_u32align: Compile cat rm_try Oldconfig run i_stdlib \
 byteorder u32type Myread Setvar u8type signal_t
?MAKE: -pick add $@ %<
?S:d_u32align:
?S: This variable tells whether you must access character data
?S: through U32-aligned pointers.
?S:.
?C:U32_ALIGNMENT_REQUIRED:
?C: This symbol, if defined, indicates that you must access
?C: character data through U32-aligned pointers.
?C:.
?H:?%<:#ifndef U32_ALIGNMENT_REQUIRED
?H:?%<:#$d_u32align U32_ALIGNMENT_REQUIRED /**/
?H:?%<:#endif
?H:.
?F:!try
: Checking 32bit alignedness
$cat
 <<EOM

Checking to see whether you can access character data unalignedly...
EOM
case "$d_u32align" in
")   $cat >try.c <<EOCP
```

```
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#define U32 $u32type
#define BYTEORDER 0x$byteorder
#define U8 $u8type
#include <signal.h>
#ifdef SIGBUS
$signal_t bletch(int s) { exit(4); }
#endif
int main() {
#if BYTEORDER == 0x1234 || BYTEORDER == 0x4321
   volatile U8 buf[8];
   volatile U32 *up;
   int i;

   if (sizeof(U32) != 4) {
 printf("sizeof(U32) is not 4, but %d\n", sizeof(U32));
 exit(1);
   }

   fflush(stdout);

#ifdef SIGBUS
   signal(SIGBUS, bletch);
#endif

   buf[0] = 0;
   buf[1] = 0;
   buf[2] = 0;
   buf[3] = 1;
   buf[4] = 0;
   buf[5] = 0;
   buf[6] = 0;
   buf[7] = 1;

   for (i = 0; i < 4; i++) {
 up = (U32*)(buf + i);
 if (! ((*up == 1 << (8*i)) ||   /* big-endian */
        (*up == 1 << (8*(3-i)))  /* little-endian */
       )
    )
 {
     printf("read failed (%x)\n", *up);
```

```
    exit(2);
 }
   }

   /* write test */
   for (i = 0; i < 4; i++) {
 up = (U32*)(buf + i);
 *up = 0xBeef;
 if (*up != 0xBeef) {
     printf("write failed (%x)\n", *up);
     exit(3);
 }
   }

   exit(0);
#else
   printf("1\n");
   exit(1);
#endif
   return 0;
}
EOCP
set try
if eval $compile_ok; then
 echo "(Testing for character data alignment may crash the test.  That's okay.)" >&4
 $run ./try 2>&1 >/dev/null
 case "$?" in
 0) cat >&4 <<EOM
You can access character data pretty unalignedly.
EOM
  d_u32align="$undef"
  ;;
 *) cat >&4 <<EOM
It seems that you must access character data in an aligned manner.
EOM
  d_u32align="$define"
  ;;
 esac
else
 rp='Can you access character data at unaligned addresses?'
 dflt='n'
 . ./myread
 case "$ans" in
 [yY]*) d_u32align="$undef"  ;;
 *) d_u32align="$define" ;;
 esac
fi
$rm_try
```

```
;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_u32align.U
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```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:sGMTIME_max sGMTIME_min sLOCALTIME_max sLOCALTIME_min: cat rm_try \
 Setvar Compile run
?MAKE: -pick add $@ %<
?S:sGMTIME_max:
?S: This variable defines the maximum value of the time_t offset that
?S: the system function gmtime () accepts
?S:.
?S:sGMTIME_min:
?S: This variable defines the minimum value of the time_t offset that
?S: the system function gmtime () accepts
?S:.
?S:sLOCALTIME_max:
?S: This variable defines the maximum value of the time_t offset that
?S: the system function localtime () accepts
?S:.
?S:sLOCALTIME_min:
?S: This variable defines the minimum value of the time_t offset that
?S: the system function localtime () accepts
?S:.
?C:GMTIME_MAX:
?C: This symbol contains the maximum value
 for the time_t offset that
?C: the system function gmtime () accepts, and defaults to 0
?C:.
?C:GMTIME_MIN:
?C: This symbol contains the minimum value for the time_t offset that
?C: the system function gmtime () accepts, and defaults to 0
?C:.
?C:LOCALTIME_MAX:
?C: This symbol contains the maximum value for the time_t offset that
?C: the system function localtime () accepts, and defaults to 0
?C:.
?C:LOCALTIME_MIN:
```

```
?C: This symbol contains the minimum value for the time_t offset that
?C: the system function localtime () accepts, and defaults to 0
?C:.
?H:#define GMTIME_MAX  $sGMTIME_max /**/
?H:#define GMTIME_MIN  $sGMTIME_min /**/
?H:#define LOCALTIME_MAX $sLOCALTIME_max /**/
?H:#define LOCALTIME_MIN $sLOCALTIME_min /**/
?H:.
?D:sGMTIME_max=0
?D:sGMTIME_min=0
?D:sLOCALTIME_max=0
?D:sLOCALTIME_min=0
?F:!try
: Check the max offset that gmtime and localtime accept
echo "Checking max offsets that gmtime () accepts"

case "$sGMTIME_min/$sGMTIME_max" in
   0/0|/)
 $cat >try.c <<EOCP
#include
 <sys/types.h>
#include <stdio.h>
#include <time.h>

int i;
struct tm *tmp;
time_t pt;

void gm_check (time_t t, int min_year, int max_year)
{
   tmp = gmtime (&t);
   if ( tmp == NULL ||
 /* Check tm_year overflow */
  tmp->tm_year < min_year || tmp->tm_year > max_year)
 tmp = NULL;
   else
 pt = t;
   } /* gm_check */

int check_max ()
{
   tmp = NULL;
   pt  = 0;
#ifdef MAXLONG
   gm_check (MAXLONG, 69, 0x7fffffff);
#endif
   if (tmp == NULL || tmp->tm_year < 0) {
 for (i = 63; i >= 0; i--) {
```

```
    time_t x = pt | ((time_t)1 << i);
    if (x < 0 || x < pt) continue;
    gm_check (x, 69, 0x7fffffff);
    }
 }
  printf ("sGMTIME_max=%ld\n", pt);
  return (0);
  } /* check_max */

int check_min ()
{
  tmp = NULL;
  pt  = 0;
#ifdef MINLONG
  gm_check (MINLONG, -1900, 70);
#endif
  if (tmp == NULL) {
 for (i = 36; i >= 0; i--) {
    time_t x = pt - ((time_t)1 << i);
    if (x > 0) continue;
    gm_check (x, -1900, 70);
    }
 }
  printf ("sGMTIME_min=%ld\n",
 pt);
  return (0);
  } /* check_min */

int main (int argc, char *argv[])
{
  /* fprintf (stderr, "Sizeof time_t = %ld\n", sizeof (time_t)); */
  check_max ();
  check_min ();
  return (0);
  } /* main */
EOCP
 set try
 if eval $compile; then
    eval `$run ./try 2>/dev/null`
 else
    echo "Cannot determine sGMTIME_max and sGMTIME_min." >&4
    fi
 $rm_try
 ;;
  esac

echo "Checking max offsets that localtime () accepts"
```

```
case "$sLOCALTIME_min/$sLOCALTIME_max" in
   0/0|/)
 $cat >try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#include <time.h>

int i;
struct tm *tmp;
time_t pt;

void local_check (time_t t, int min_year, int max_year)
{
   if (sizeof (time_t) > 4 && t > 0x7fffffffffff000LL)
 tmp = NULL;
   else
 tmp = localtime (&t);
   if ( tmp == NULL ||
 /* Check tm_year overflow */
  tmp->tm_year < min_year || tmp->tm_year > max_year)
 tmp = NULL;
   else
 pt = t;
   } /* local_check */

int check_max ()
{
   tmp = NULL;
   pt  = 0;
#ifdef
 MAXLONG
   local_check (MAXLONG, 69, 0x7fffffff);
#endif
   if (tmp == NULL || tmp->tm_year < 0) {
 for (i = 63; i >= 0; i--) {
     time_t x = pt | ((time_t)1 << i);
     if (x < 0 || x < pt) continue;
     local_check (x, 69, 0x7fffffff);
     }
 }
   printf ("sLOCALTIME_max=%ld\n", pt);
   return (0);
  } /* check_max */

int check_min ()
{
   tmp = NULL;
   pt  = 0;
```

```
#ifdef MINLONG
   local_check (MINLONG, -1900, 70);
#endif
   if (tmp == NULL) {
 for (i = 36; i >= 0; i--) {
     time_t x = pt - ((time_t)1 << i);
     if (x > 0) continue;
     local_check (x, -1900, 70);
     }
 }
   printf ("sLOCALTIME_min=%ld\n", pt);
   return (0);
   } /* check_min */

int main (int argc, char *argv[])
{
   check_max ();
   check_min ();
   return (0);
   } /* main */
EOCP
 set try
 if eval $compile; then
     eval `$run ./try 2>/dev/null`
 else
     echo "Cannot determine sLOCALTIME_max and sLOCALTIME_min." >&4
     fi
 $rm_try
 ;;
   esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/time_size.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethent.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_gethent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_gethent: Inlibc
?MAKE: -pick add $@ %<
?S:d_gethent:
?S: This variable conditionally defines HAS_GETHOSTENT if gethostent() is
?S: available to look up host names in some data base or another.
?S:.
?C:HAS_GETHOSTENT:
?C: This symbol, if defined, indicates that the gethostent() routine is
?C: available to look up host names in some
 data base or another.
?C:.
?H:#$d_gethent HAS_GETHOSTENT  /**/
?H:.
?LINT:set d_gethent
: see if gethostent exists
set gethostent d_gethent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_gethent.U
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```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_prctl d_prctl_set_name: Inlibc cat Compile run rm_try
?MAKE: -pick add $@ %<
?S:d_prctl:
?S: This variable conditionally defines the HAS_PRCTL symbol, which
?S: indicates to the C program that the prctl() routine is available.
?S: Note that there are at least two prctl variants: Linux and Irix.
?S: While they are somewhat similar, they are incompatible.
?S:.
?S:d_prctl_set_name:
?S: This variable conditionally defines the HAS_PRCTL_SET_NAME symbol,
?S: which indicates to the C program that the prctl() routine supports
?S: the PR_SET_NAME option.
?S:.
?C:HAS_PRCTL:
?C: This symbol, if defined, indicates that the prctl routine is
?C: available to set process title.
```

```
?C: Note that there are at least two
 prctl variants: Linux and Irix.
?C: While they are somewhat similar, they are incompatible.
?C:.
?C:HAS_PRCTL_SET_NAME:
?C: This symbol, if defined, indicates that the prctl routine is
?C: available to set process title and supports PR_SET_NAME.
?C:.
?H:#$d_prctl HAS_PRCTL  /**/
?H:#$d_prctl_set_name HAS_PRCTL_SET_NAME  /**/
?H:.
?F:!try
?LINT:set d_prctl
: see if prctl exists
set prctl d_prctl
eval $inlibc

: see if prctl supports PR_SET_NAME
d_prctl_set_name=$undef
case $d_prctl in
   $define)
 $cat >try.c <<EOM
#ifdef __ANDROID__
#include <unistd.h>
#endif
#include <sys/prctl.h>

int main (int argc, char *argv[])
{
   return (prctl (PR_SET_NAME, "Test"));
   } /* main */
EOM
 set try
 if eval $compile_ok && $run ./try; then
     echo "Your prctl (PR_SET_NAME, ...) works"
     d_prctl_set_name=$define
     fi
 $rm_try
 ;;
   esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_prctl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_attribut.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
```

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_attribut.U,v $
?RCS: Revision 3.0.1.3  1995/01/30  14:33:45  ram
?RCS: patch49: test C program now includes <stdio.h> (WED)
?RCS:
?RCS: Revision 3.0.1.2  1995/01/11  15:25:47  ram
?RCS: patch45: fixed typo in the d_attribut variable (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:08:55  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_attribute_deprecated d_attribute_format
 d_attribute_malloc \
 d_attribute_nonnull d_attribute_noreturn d_attribute_pure \
 d_attribute_unused d_attribute_warn_unused_result \
 d_printf_format_null d_attribute_always_inline: \
    Myread Oldconfig cat cc ccflags rm Setvar compiler_warning \
        i_stdlib run i_inttypes
?MAKE: -pick add $@ %<
?S:d_attribute_format:
?S: This variable conditionally defines HASATTRIBUTE_FORMAT, which
?S: indicates the C compiler can check for printf-like formats.
?S:.
?S:d_attribute_deprecated:
?S: This variable conditionally defines HASATTRIBUTE_DEPRECATED, which
?S: indicates that GCC can handle the attribute for marking deprecated
?S: APIs
?S:.
?S:d_printf_format_null:
?S: This variable conditionally defines PRINTF_FORMAT_NULL_OK, which
?S: indicates the C compiler allows printf-like formats to be null.
?S:.
?S:d_attribute_malloc:
?S: This variable conditionally defines HASATTRIBUTE_MALLOC, which
?S: indicates the C compiler can understand functions as having
?S: malloc-like semantics.
?S:.
?S:d_attribute_nonnull:
?S: This
```

```
 variable conditionally defines HASATTRIBUTE_NONNULL, which
?S: indicates that the C compiler can know that certain arguments
?S: must not be NULL, and will check accordingly at compile time.
?S:.
?S:d_attribute_noreturn:
?S: This variable conditionally defines HASATTRIBUTE_NORETURN, which
?S: indicates that the C compiler can know that certain functions
?S: are guaranteed never to return.
?S:.
?S:d_attribute_pure:
?S: This variable conditionally defines HASATTRIBUTE_PURE, which
?S: indicates that the C compiler can know that certain functions
?S: are "pure" functions, meaning that they have no side effects, and
?S: only rely on function input and/or global data for their results.
?S:.
?S:d_attribute_unused:
?S: This variable conditionally defines HASATTRIBUTE_UNUSED, which
?S: indicates that the C compiler can know that certain variables
?S: and arguments may not always be used, and to not throw warnings
?S: if they don't get used.
?S:.
?S:d_attribute_warn_unused_result:
?S: This
 variable conditionally defines
?S: HASATTRIBUTE_WARN_UNUSED_RESULT, which indicates that the C
?S: compiler can know that certain functions have a return values
?S: that must not be ignored, such as malloc() or open().
?S:.
?S:d_attribute_always_inline:
?S: This variable conditionally defines HASATTRIBUTE_ALWAYS_INLINE,
?S: which indicates that the C compiler can know that certain
?S: functions should always be inlined.
?S:.
?C:HASATTRIBUTE_FORMAT ~ %< (GNUC_ATTRIBUTE_CHECK):
?C: Can we handle GCC attribute for checking printf-style formats
?C:.
?C:PRINTF_FORMAT_NULL_OK:
?C: Allows __printf__ format to be null when checking printf-style
?C:.
?C:HASATTRIBUTE_MALLOC:
?C: Can we handle GCC attribute for malloc-style functions.
?C:.
?C:HASATTRIBUTE_NONNULL:
?C: Can we handle GCC attribute for nonnull function parms.
?C:.
?C:HASATTRIBUTE_NORETURN:
?C: Can we handle GCC attribute for functions that do not return
?C:.
```

```
?C:HASATTRIBUTE_PURE:
?C: Can we handle
 GCC attribute for pure functions
?C:.
?C:HASATTRIBUTE_UNUSED:
?C: Can we handle GCC attribute for unused variables and arguments
?C:.
?C:HASATTRIBUTE_DEPRECATED:
?C: Can we handle GCC attribute for marking deprecated APIs
?C:.
?C:HASATTRIBUTE_WARN_UNUSED_RESULT ~ %< (HASATTRIBUTE):
?C: Can we handle GCC attribute for warning on unused results
?C:.
?C:HASATTRIBUTE_ALWAYS_INLINE:
?C: Can we handle GCC attribute for functions that should always be
?C: inlined.
?C:.
?H:?%<:#$d_attribute_deprecated HASATTRIBUTE_DEPRECATED /**/
?H:?%<:#$d_attribute_format HASATTRIBUTE_FORMAT /**/
?H:?%<:#$d_printf_format_null PRINTF_FORMAT_NULL_OK /**/
?H:?%<:#$d_attribute_noreturn HASATTRIBUTE_NORETURN /**/
?H:?%<:#$d_attribute_malloc HASATTRIBUTE_MALLOC /**/
?H:?%<:#$d_attribute_nonnull HASATTRIBUTE_NONNULL /**/
?H:?%<:#$d_attribute_pure HASATTRIBUTE_PURE /**/
?H:?%<:#$d_attribute_unused HASATTRIBUTE_UNUSED /**/
?H:?%<:#$d_attribute_warn_unused_result HASATTRIBUTE_WARN_UNUSED_RESULT /**/
?H:?%<:#$d_attribute_always_inline
 HASATTRIBUTE_ALWAYS_INLINE /**/
?H:.
?F:!attrib !attrib.out !attrib.c
?LINT:set d_attribute_deprecated
?LINT:set d_attribute_format
?LINT:set d_printf_format_null
?LINT:set d_attribute_malloc
?LINT:set d_attribute_nonnull
?LINT:set d_attribute_noreturn
?LINT:set d_attribute_pure
?LINT:set d_attribute_unused
?LINT:set d_attribute_warn_unused_result
?LINT:set d_attribute_always_inline
: Look for GCC-style attribute format
case "$d_attribute_format" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((format)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
void my_special_printf(char* pat,...) __attribute__((__format__(__printf__,1,2)));
```

```
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((format))."
  val="$undef"
 else
  echo "Your C compiler supports __attribute__((format))."
  val="$define"
 fi
else
 echo "Your C compiler
 doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_format" ;;
esac
set d_attribute_format
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute format with null format allowed
case "$d_printf_format_null" in
") case "$d_attribute_format" in
   $define)
 echo " "
 echo "Checking whether your compiler allows __printf__ format to be null ..." >&4
$cat >attrib.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_inttypes I_INTTYPES
#ifdef I_INTTYPES
#include <inttypes.h>
#endif
#ifndef INTPTR_MAX
#define intptr_t int
#endif
int null_printf (char* pat,...) __attribute__((__format__(__printf__,1,2)));
int null_printf (char* pat,...) { return (int)(intptr_t)pat; }
int main () { exit(null_printf(NULL)); }
EOCP
 if $cc $ccflags -o attrib attrib.c >attrib.out 2>&1 ; then
     : run the executable in case it produces a run-time warning
     if $run ./attrib >>attrib.out 2>&1; then
  if $compiler_warning attrib.out
```

```
 >/dev/null 2>&1; then
      echo "Your C compiler doesn't allow __printf__ format to be null."
      val="$undef"
  else
      echo "Your C compiler allows __printf__ format to be null."
      val="$define"
  fi
     else
     echo "Your C compiler executable failed with __printf__ format null."
     val="$undef"
 fi
   else
 echo "Your C compiler fails with __printf__ format null."
 val="$undef"
   fi
   ;;
   *)  val="$undef" ;;
   esac
;;
*)  val="$d_printf_format_null" ;;
esac
set d_printf_format_null
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute malloc
case "$d_attribute_malloc" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((malloc)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
char *go_get_some_memory( int how_many_bytes ) __attribute__((malloc));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((malloc))."
  val="$undef"
 else
  echo
 "Your C compiler supports __attribute__((malloc))."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
```

```
*) val="$d_attribute_malloc" ;;
esac
set d_attribute_malloc
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute nonnull
case "$d_attribute_nonnull" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((nonnull(1))) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
void do_something (char *some_pointer,...) __attribute__((nonnull(1)));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((nonnull))."
  val="$undef"
 else
  echo "Your C compiler supports __attribute__((nonnull))."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_nonnull" ;;
esac
set d_attribute_nonnull
eval
 $setvar
$rm -f attrib*

: Look for GCC-style attribute noreturn
case "$d_attribute_noreturn" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((noreturn)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
void fall_over_dead( void ) __attribute__((noreturn));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((noreturn))."
  val="$undef"
```

```
 else
  echo "Your C compiler supports __attribute__((noreturn))."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_noreturn" ;;
esac
set d_attribute_noreturn
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute pure
case "$d_attribute_pure" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((pure)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
int square( int
 n ) __attribute__((pure));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((pure))."
  val="$undef"
 else
  echo "Your C compiler supports __attribute__((pure))."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_pure" ;;
esac
set d_attribute_pure
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute unused
case "$d_attribute_unused" in
")
echo " "
```

```
echo "Checking whether your compiler can handle __attribute__((unused)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
int do_something( int dummy __attribute__((unused)), int n );
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((unused))."
  val="$undef"
 else
  echo "Your C compiler supports __attribute__((unused))."
  val="$define"
 fi
else
 echo
 "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_unused" ;;
esac
set d_attribute_unused
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute deprecated
case "$d_attribute_deprecated" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((deprecated)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
int I_am_deprecated(void) __attribute__((deprecated));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((deprecated))."
  val="$undef"
 else
  echo "Your C compiler supports __attribute__((deprecated))."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_deprecated" ;;
```

```
esac
set d_attribute_deprecated
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute
 warn_unused_result
case "$d_attribute_warn_unused_result" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((warn_unused_result)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
int I_will_not_be_ignored(void) __attribute__((warn_unused_result));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((warn_unused_result))."
  val="$undef"
 else
  echo "Your C compiler supports __attribute__((warn_unused_result))."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_warn_unused_result" ;;
esac
set d_attribute_warn_unused_result
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute always_inline
case "$d_attribute_always_inline" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((always_inline)) ..." >&4
$cat >attrib.c <<'EOCP'
#include
 <stdio.h>
static __inline__ __attribute__((always_inline)) int I_will_always_be_inlined(void);
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((always_inline))."
  val="$undef"
```

```
 else
  echo "Your C compiler supports __attribute__((always_inline))."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_always_inline" ;;
esac
set d_attribute_always_inline
eval $setvar
$rm -f attrib*
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_attribut.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: usenm.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:26:40  ram
?RCS: patch61: don't use nm with the GNU C library
?RCS: patch61: added support for Linux shared libs
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:usenm runnm nm_opt nm_so_opt: cat test Myread Oldconfig grep \
 d_gnulibc nm egrep rsrc osname Guess
?MAKE: -pick add $@ %<
?S:usenm:
?S: This variable contains 'true' or 'false' depending whether the
?S: nm extraction is wanted
 or not.
?S:.
?S:runnm:
?S: This variable contains 'true' or 'false' depending whether the
```

```
?S: nm extraction should be performed or not, according to the value
?S: of usenm and the flags on the Configure command line.
?S:.
?S:nm_opt:
?S: This variable holds the options that may be necessary for nm.
?S:.
?S:nm_so_opt:
?S: This variable holds the options that may be necessary for nm
?S: to work on a shared library but that can not be used on an
?S: archive library.  Currently, this is only used by Linux, where
?S: nm --dynamic is *required* to get symbols from an ELF library which
?S: has been stripped, but nm --dynamic is *fatal* on an archive library.
?S: Maybe Linux should just always set usenm=false.
?S:.
: see if nm is to be used to determine whether a symbol is defined or not
?X: If there is enough inquiries, it might be worth to wait for the nm
?X: extraction. Otherwise, the C compilations might be a better deal.
?X:
?X: Don't bother if we're using GNU libc -- skimo
case "$usenm"
 in
")
 dflt="
 case "$d_gnulibc" in
 "$define")
  echo " "
  echo "$nm probably won't work on the GNU C Library." >&4
  dflt=n
  ;;
 esac
 case "$dflt" in
 ")
  if $test "$osname" = aix -a ! -f /lib/syscalls.exp; then
   echo " "
   echo "Whoops!  This is an AIX system without /lib/syscalls.exp!" >&4
   echo "'nm' won't be sufficient on this system." >&4
   dflt=n
  fi
  ;;
 esac
 case "$dflt" in
 ")
  if ./gnu; then
   echo " "
   echo "Hmm...  A GNU system without a GNU C Library?  Weird..." >&4
   dflt=n
  else
   dflt=`$egrep 'inlibc|csym' $rsrc/Configure | wc -l 2>/dev/null`
```

```
   if $test $dflt -gt 20; then
    dflt=y
   else
    dflt=n
   fi
  fi
  ;;
 esac
 ;;
*)
 case "$usenm" in
 true|$define) dflt=y;;
 *) dflt=n;;
 esac
 ;;
esac
$cat <<EOM

I can use $nm to extract the symbols from your C libraries. This
is a time consuming task which may generate huge output on the disk (up
to 3 megabytes) but that should make the symbols extraction faster. The
alternative is to skip the
 'nm' extraction part and to compile a small
test program instead to determine whether each symbol is present. If
you have a fast C compiler and/or if your 'nm' output cannot be parsed,
this may be the best solution.

EOM
rp='Shall I use nm to extract C symbols from the libraries?'
. ./myread
case "$ans" in
[Nn]*) usenm=false;;
*) usenm=true;;
esac

?X: Name extraction is to be run if 'nm' usage is wanted and if no -r flag
?X: was provided to configure (in which case we simply re-use the previous
?X: values).
runnm=$usenm
case "$reuseval" in
true) runnm=false;;
esac

: nm options which may be necessary
case "$nm_opt" in
") if $test -f /mach_boot; then
  nm_opt="  # Mach
 elif $test -d /usr/ccs/lib; then
```

```
  nm_opt='-p'  # Solaris (and SunOS?)
 elif $test -f /dgux; then
  nm_opt='-p'  # DG-UX
 elif $test -f /lib64/rld; then
  nm_opt='-p'  # 64-bit Irix
 else
  nm_opt=''
 fi;;
esac

?X: nm options which may be necessary for shared libraries but illegal
?X: for archive libraries.  Thank you,
 Linux.
case "$nm_so_opt" in
'') case "$osname" in
 *linux*)
  if $nm --help | $grep 'dynamic' > /dev/null 2>&1; then
   nm_so_opt='--dynamic'
  fi
  ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/usenm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: randfunc.U,v 3.0 1993/08/18 12:09:39 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: randfunc.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This is the new unit that should be used when random
?X: functions are to be used. It thus makes randbits.U obsolete.
?X:
?X: This unit gives a simple #define for Drand01, which produces
```

```
?X: doubles in the range [0,1) using the "best" random number
?X: generator available.  The source should just call Drand01
?X: and not worry about the underlying
 implementation.
?X:     Andy Dougherty  July 1998
?X:
?MAKE:randfunc drand01 seedfunc randbits randseedtype: \
 Compile Myread Csym ccflags
?MAKE: -pick add $@ %<
?S:randfunc:
?S: Indicates the name of the random number function to use.
?S: Values include drand48, random, and rand. In C programs,
?S: the 'Drand01' macro is defined to generate uniformly distributed
?S: random numbers over the range [0., 1.[ (see drand01 and nrand).
?S:.
?S:drand01:
?S: Indicates the macro to be used to generate normalized
?S: random numbers.  Uses randfunc, often divided by
?S: (double) (((unsigned long) 1 << randbits)) in order to
?S: normalize the result.
?S: In C programs, the macro 'Drand01' is mapped to drand01.
?S:.
?S:randseedtype:
?S: Indicates the type of the argument of the seedfunc.
?S:.
?S:seedfunc:
?S: Indicates the random number generating seed function.
?S: Values include srand48, srandom, and srand.
?S:.
?S:randbits:
?S: Indicates how many bits are produced by the function used to
?S: generate
 normalized random numbers.
?S:.
?C:RANDFUNC:
?C: This symbol defines the random function used to define Drand01().
?C:.
?C:Drand01:
?C: This macro is to be used to generate uniformly distributed
?C: random numbers over the range [0., 1.[.  You may have to supply
?C: an 'extern double drand48();' in your program since SunOS 4.1.3
?C: doesn't provide you with anything relevant in its headers.
?C: See HAS_DRAND48_PROTO.
?C:.
?C:Rand_seed_t:
?C: This symbol defines the type of the argument of the
?C: random seed function.
?C:.
```

```
?C:seedDrand01:
?C: This symbol defines the macro to be used in seeding the
?C: random number generator (see Drand01).
?C:.
?C:RANDBITS:
?C: This symbol indicates how many bits are produced by the
?C: function used to generate normalized random numbers.
?C: Values include 15, 16, 31, and 48.
?C:.
?H:#define RANDFUNC  $randfunc  /**/
?H:#define Drand01()  $drand01  /**/
?H:#define Rand_seed_t  $randseedtype  /**/
?H:#define seedDrand01(x) $seedfunc((Rand_seed_t)x) /**/
?H:#define
 RANDBITS  $randbits  /**/
?H:.
?LINT:change ccflags
?LINT:unclosed $randbits))"
: How can we generate normalized random numbers ?
echo " "
echo "Using our internal random number implementation..." >&4

case "$ccflags" in
*-Dmy_rand=*|*-Dmy_srand=*)
 echo "Removing obsolete -Dmy_rand, -Dmy_srand, and -Drandbits from ccflags." >&4
 ccflags="`echo $ccflags | sed -e 's/-Dmy_rand=random/ /'`"
 ccflags="`echo $ccflags | sed -e 's/-Dmy_srand=srandom/ /'`"
 ccflags="`echo $ccflags | sed -e 's/-Drandbits=[0-9][0-9]*/ /'`"
 ;;
esac

randfunc=Perl_drand48
drand01="Perl_drand48()"
seedfunc="Perl_drand48_init"
randbits=48
randseedtype=U32
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/randfunc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_memalign.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memalign.U,v $
?RCS:
?MAKE:d_memalign: Inlibc
?MAKE: -pick add $@ %<
?S:d_memalign:
?S: This variable conditionally defines the HAS_MEMALIGN symbol, which
?S: indicates to the C program that the memalign() routine is available.
?S:.
?C:HAS_MEMALIGN :
?C: This symbol, if defined, indicates that the memalign routine is
?C: available to allocate aligned memory.
?C:.
?H:#$d_memalign HAS_MEMALIGN  /**/
?H:.
?LINT:set d_memalign
: see if memalign exists
set
 memalign d_memalign
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_memalign.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_tminsys.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_tminsys.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_tminsys: contains Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_tminsys:
?S: This variable conditionally defines TM_IN_SYS if this system
?S: declares "struct tm" in <sys/time.h> rather than <time.h>.
```

```
?S:.
?C:TM_IN_SYS (TMINSYS):
?C: This symbol is defined if this system declares "struct tm" in
?C: <sys/time.h> rather than <time.h>.
  We can't just say
?C: -I/usr/include/sys because some systems have both time files, and
?C: the -I trick gets the wrong one.
?C:.
?H:#$d_tminsys TM_IN_SYS  /**/
?H:.
?LINT:set d_tminsys
: see if struct tm is defined in sys/time.h
echo " "
if $contains 'struct tm' `./findhdr time.h` >/dev/null 2>&1 ; then
 echo "You have struct tm defined in <time.h> rather than <sys/time.h>." >&4
 val="$undef"
else
 echo "You have struct tm defined in <sys/time.h> rather than <time.h>." >&4
 val="$define"
fi
set d_tminsys
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_tminsys.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: ssizetype.U,v 3.0.1.3 1997/02/28 16:24:21 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: ssizetype.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:24:21  ram
?RCS: patch61: integrated perl5 concerns for mis-configured sfio
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:30:28  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
```

```
?RCS: Revision 3.0.1.1  1994/08/29  16:33:06  ram
?RCS: patch32: created
 by ADO
?RCS:
?MAKE:ssizetype: Myread Typedef sizetype cat rm_try Compile run i_stdlib
?MAKE: -pick add $@ %<
?S:ssizetype:
?S: This variable defines ssizetype to be something like ssize_t,
?S: long or int.  It is used by functions that return a count
?S: of bytes or an error condition.  It must be a signed type.
?S: We will pick a type such that sizeof(SSize_t) == sizeof(Size_t).
?S:.
?C:SSize_t:
?C: This symbol holds the type used by functions that return
?C: a count of bytes or an error condition.  It must be a signed type.
?C: It is usually ssize_t, but may be long or int, etc.
?C: It may be necessary to include <sys/types.h> or <unistd.h>
?C: to get any typedef'ed information.
?C: We will pick a type such that sizeof(SSize_t) == sizeof(Size_t).
?C:.
?H:#define SSize_t $ssizetype /* signed count of bytes */
?H:.
?F:!try
: see what type is used for signed size_t
set ssize_t ssizetype int stdio.h sys/types.h
eval $typedef
dflt="$ssizetype"
?X: Now check out whether sizeof(SSize_t)
 == sizeof(Size_t)
$cat > try.c <<EOM
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <sys/types.h>
#define Size_t $sizetype
#define SSize_t $dflt
int main()
{
 if (sizeof(Size_t) == sizeof(SSize_t))
  printf("$dflt\n");
 else if (sizeof(Size_t) == sizeof(int))
  printf("int\n");
 else
  printf("long\n");
 exit(0);
}
```

```
EOM
echo " "
set try
if eval $compile_ok && $run ./try > /dev/null; then
 ssizetype=`$run ./try`
 echo "I'll be using $ssizetype for functions returning a byte count." >&4
else
 $cat >&4 <<EOM
Help! I can't compile and run the ssize_t test program: please enlighten me!
(This is probably a misconfiguration in your system or libraries, and
you really ought to fix it.  Still, I'll try anyway.)

I need a type that is the same size as $sizetype, but is guaranteed to
be signed.  Common values are ssize_t, int and long.

EOM
 rp="What signed type is the same size as $sizetype?"
 . ./myread
 ssizetype="$ans"
fi
$rm_try
```

Found in path(s):
*
 /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/ssizetype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_closedir.U,v 3.0.1.3 1997/02/28 15:31:26 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_closedir.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:31:26  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:11:18  ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:21  ram
```

```
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_closedir d_void_closedir: Inlibc i_dirent i_sysdir i_sysndir
 \
 i_systypes Compile Setvar rm_try run
?MAKE: -pick add $@ %<
?S:d_closedir:
?S: This variable conditionally defines HAS_CLOSEDIR if closedir() is
?S: available.
?S:.
?C:HAS_CLOSEDIR:
?C: This symbol, if defined, indicates that the closedir() routine is
?C: available.
?C:.
?H:#$d_closedir HAS_CLOSEDIR  /**/
?H:.
?S:d_void_closedir:
?S: This variable conditionally defines VOID_CLOSEDIR if closedir()
?S: does not return a value.
?S:.
?C:VOID_CLOSEDIR:
?C: This symbol, if defined, indicates that the closedir() routine
?C: does not return a value.
?C:.
?H:#$d_void_closedir VOID_CLOSEDIR  /**/
?H:.
?F:!try
?LINT:set d_closedir d_void_closedir
: see if closedir exists
set closedir d_closedir
eval $inlibc

@if VOID_CLOSEDIR || d_void_closedir
?X: The following contortions are designed so we can call closedir()
?X: and check whether it returns a value.  The contortions are designed
?X: to portably pick up the correct directory header, for those
?X: systems that support various mutually incompatible
 directory functions.
?X: This is from perl5's perl.h
case "$d_closedir" in
"$define")
 echo " "
 echo "Checking whether closedir() returns a status..." >&4
 cat > try.c <<EOM
#$i_dirent I_DIRENT  /**/
#$i_sysdir I_SYS_DIR  /**/
#$i_sysndir I_SYS_NDIR  /**/
#$i_systypes I_SYS_TYPES /**/
```

```
#if defined(I_SYS_TYPES)
#include <sys/types.h>
#endif
#if defined(I_DIRENT)
#include <dirent.h>
#else
#ifdef I_SYS_NDIR
#include <sys/ndir.h>
#else
#ifdef I_SYS_DIR
#include <sys/dir.h>
#endif
#endif
#endif
int main() { return closedir(opendir(".")); }
EOM
 set try
 if eval $compile_ok; then
  if $run ./try > /dev/null 2>&1 ; then
   echo "Yes, it does."
   val="$undef"
  else
   echo "No, it doesn't."
   val="$define"
  fi
 else
  echo "(I can't seem to compile the test program--assuming it doesn't)"
  val="$define"
 fi
 ;;
*)
 val="$undef";
 ;;
esac
set d_void_closedir
eval $setvar
$rm_try
@end
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_closedir.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_setprior.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setprior.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:11  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setprior: Inlibc
?MAKE: -pick add $@ %<
?S:d_setprior:
?S: This variable conditionally defines HAS_SETPRIORITY if setpriority()
?S: is available to set a process's priority.
?S:.
?C:HAS_SETPRIORITY (SETPRIORITY):
?C: This symbol, if defined, indicates that the setpriority routine is
?C: available to set a process's priority.
?C:.
?H:#$d_setprior
 HAS_SETPRIORITY  /**/
?H:.
?LINT:set d_setprior
: see if setpriority exists
set setpriority d_setprior
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setprior.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_arpainet.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_arpainet.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:i_arpainet: Inhdr
?MAKE: -pick add $@ %<
?S:i_arpainet:
?S: This variable conditionally defines the I_ARPA_INET symbol,
?S: and indicates whether a C program should include <arpa/inet.h>.
?S:.
?C:I_ARPA_INET:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <arpa/inet.h> to get inet_addr and friends
 declarations.
?C:.
?H:#$i_arpainet I_ARPA_INET  /**/
?H:.
?LINT:set i_arpainet
: see if arpa/inet.h has to be included
set arpa/inet.h i_arpainet
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_arpainet.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Init.U,v $
?RCS: Revision 3.0.1.1  1994/10/31  09:45:59  ram
?RCS: patch44: removed Options from MAKE to prevent Init overrides
?RCS: patch44: option processing now done after Myinit thanks to new Begin.U
?RCS: patch44: moved "Beginning of configuration questions" to Begin.U
?RCS: patch44: moved signal trapping instruction to Begin.U as well
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file initializes certain default variables
 used by Configure.  They
?X: may be overridden or added to by definitions in Myinit.U.
?X:
```

```
?MAKE:Init eunicefix _exe: Null
?MAKE: -pick add $@ %<
?MAKE: -pick weed $@ ./Init
?S:eunicefix:
?S: When running under Eunice this variable contains a command which will
?S: convert a shell script to the proper form of text file for it to be
?S: executable by the shell.  On other systems it is a no-op.
?S:.
?S:_exe (exe_ext):
?S: This variable defines the extension used for executable files.
?S: For unix it is empty.  Other possible values include '.exe'.
?S: DJGPP, Cygwin and OS/2 use '.exe'.  Stratus VOS uses '.pm'.
?S: On operating systems which do not require a specific extension
?S: for executable files, this variable is empty.
?S:.
?V:define undef smallmach:rmlist
?X:
?X: Throughout the units, one may make use of $define and $undef to reference
?X: a defined symbol or an undefined one. There is no need to add them in
?X: the dependency line since this unit makes them visible via ?V:, and
?X:
 everyone inherits from those symbols since by convention Init.U is the
?X: root dependency.
?X:
?T: DJGPP
: Initialize wide constants
define='define'
undef='undef'
smallmach='pdp11 i8086 z8000 i80286 iAPX286'
rmlist=''

: We must find out about Eunice early
eunicefix=':'
if test -f /etc/unixtovms; then
 eunicefix=/etc/unixtovms
fi
if test -f /etc/unixtovms.exe; then
 eunicefix=/etc/unixtovms.exe
fi

: Set executable suffix now -- needed before hints available
if test -f "/libs/version.library"; then
 : Amiga OS
  _exe=""
elif test -f "/system/gnu_library/bin/ar.pm"; then
 : Stratus VOS
 _exe=".pm"
elif test -n "$DJGPP"; then
```

```
 : DOS DJGPP
  _exe=".exe"
elif test -d c:/. ; then
 : OS/2 or cygwin
 _exe=".exe"
else
 : All other UNIX systems
 _exe=""
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Init.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_locale.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_locale.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:48:23  ram
?RCS: patch61: created
?RCS:
?MAKE:i_locale: Inhdr
?MAKE: -pick add $@ %<
?S:i_locale:
?S: This variable conditionally defines the I_LOCALE symbol,
?S: and indicates whether a C program should include <locale.h>.
?S:.
?C:I_LOCALE:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <locale.h>.
?C:.
?H:#$i_locale I_LOCALE  /**/
?H:.
?LINT:set
 i_locale
: see if locale.h is available
set locale.h i_locale
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_locale.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Begin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Begin.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  14:56:35  ram
?RCS: patch61: added Extractall dependency
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:25:08  ram
?RCS: patch49: avoid an empty rmlist: systems might choke on it (WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/31  09:32:20  ram
?RCS: patch44: created
?RCS:
?X:
?X: This file comes after option processing had been done and after all
?X: the default values have been set up. It marks the beginning
 of questions.
?X: It is important that Options be listed *after* Myinit to ensure that the
?X: default initializations performed by Init and Myinit will not clobber
?X: any setting done on the command line via -D or -U.
?X:
?MAKE:Begin: Myinit Options package Extractall
?MAKE: -pick add $@ %<
: Eunice requires " " instead of "", can you believe it
echo " "
: Here we go...
echo "Beginning of configuration questions for $package."

?X: Make sure the rm below is given a non-empty list for some systems.
?X: This is run only when within the UU directory, hence we can safely
?X: attempt to rm a non-existent 'X' file...
trap 'echo " "; test -d ../UU && rm -rf X $rmlist; exit 1' 1 2 3 15
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Begin.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the WRITEME file.
?RCS:
?MAKE:d_writev: Inlibc
?MAKE: -pick add $@ %<
?S:d_writev:
?S: This variable conditionally defines the HAS_WRITEV symbol, which
?S: indicates to the C program that the writev() routine is available.
?S:.
?C:HAS_WRITEV:
?C: This symbol, if defined, indicates that the writev routine is
?C: available to do scatter writes.
?C:.
?H:#$d_writev HAS_WRITEV  /**/
?H:.
?LINT:set d_writev
: see if writev exists
set writev d_writev
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_writev.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gnulibc.U,v 3.0.1.1 1997/02/28 15:34:33 ram Exp $
?RCS:
?RCS: Copyright (c) 1996,1998 Andy Dougherty
?RCS: Copyright (c) 1996, Sven Verdoolaege
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_gnulibc.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:34:33  ram
?RCS: patch61: created
?RCS:
?MAKE:d_gnulibc gnulibc_version: Myread Oldconfig Setvar rm_try \
```

```
 cat Compile run
?MAKE: -pick add $@ %<
?S:d_gnulibc:
?S: Defined if we're dealing with the GNU C Library.
?S:.
?S:gnulibc_version:
?S: This variable contains the version number of the GNU C library.
?S: It is
 usually something like '2.2.5'.  It is a plain " if this
?S: is not the GNU C library, or if the version is unknown.
?S:.
?C:HAS_GNULIBC:
?C: This symbol, if defined, indicates to the C program that
?C: the GNU C library is being used.  A better check is to use
?C: the __GLIBC__ and __GLIBC_MINOR__ symbols supplied with glibc.
?C:.
?H:#$d_gnulibc HAS_GNULIBC /**/
?H:?%<:#if defined(HAS_GNULIBC) && !defined(_GNU_SOURCE)
?H:?%<:#   define _GNU_SOURCE
?H:?%<:#endif
?H:.
?F:!glibc.ver !try
?LINT: set d_gnulibc
?X: gnulibc can be executed by calling __libc_main().
?X: Ulrich Drepper doesn't think any other libc does that,
?X: but we check if it says 'GNU C Library' to be sure.
?X:
?X: Alas, as of 3/1998 glibc 2.0.7 reportedly isn't going to
?X: have __libc_main() anymore. :-(.  Fortunately, all released
?X: versions of glibc 2.x.x _do_ have CPP variables.  For 2.0.6,
?X: they are:
?X: #define __GLIBC__  2
?X: #define__GLIBC_MINOR__ 0.
?X: (The '6' isn't available :-(.
?X: glibc2.1 will also
 have
?X:  extern const char * __gnu_get_libc_release(void);
?X:  extern const char * __gnu_get_libc_version(void);
?X: functions.   --thanks to Andreas Jaeger.   --AD  6/1998.
?X: Although the exact format isn't documented, __gnu_get_libc_version()
?X: returns a simple string '2.1.3' in glibc 2.1.3.
?X:
: Check if we are using the GNU C library
echo " "
echo "Checking for GNU C Library..." >&4
cat >try.c <<'EOCP'
/* Find out version of GNU C library.  __GLIBC__ and __GLIBC_MINOR__
  alone are insufficient to distinguish different versions, such as
```

```
  2.0.6 and 2.0.7.  The function gnu_get_libc_version() appeared in
  libc version 2.1.0.      A. Dougherty,  June 3, 2002.
*/
#include <stdio.h>
int main(void)
{
#ifdef __GLIBC__
#   ifdef __GLIBC_MINOR__
#       if __GLIBC__ >= 2 && __GLIBC_MINOR__ >= 1 && !defined(__cplusplus)
#           include <gnu/libc-version.h>
     printf("%s\n",  gnu_get_libc_version());
#       else
     printf("%d.%d\n",  __GLIBC__, __GLIBC_MINOR__);
#
   endif
#   else
 printf("%d\n",  __GLIBC__);
#   endif
   return 0;
#else
   return 1;
#endif
}
EOCP
set try
if eval $compile_ok && $run ./try > glibc.ver; then
 val="$define"
 gnulibc_version=`$cat glibc.ver`
 echo "You are using the GNU C Library version $gnulibc_version"
else
 val="$undef"
 gnulibc_version=''
 echo "You are not using the GNU C Library"
fi
$rm_try glibc.ver
set d_gnulibc
eval $setvar

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
5.36.0/U/compline/d_gnulibc.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: mkdep.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: mkdep.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  16:13:07  ram
?RCS: patch61: replaced .o with $_o all over the place
?RCS:
?RCS: Revision 3.0.1.3  1994/10/29  16:25:02  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:15:12  ram
?RCS: patch16: cppflags is now an optional dependency
?RCS:
?RCS: Revision 3.0.1.1  1993/12/15  08:22:39  ram
?RCS: patch15: force zero exit status in all mkdep scripts
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:09:16  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit generates the script 'mkdep' in the top-level directory.
?X: It is up to the makefile to use it for automatic dependencies
?X: generation (usage: 'mkdep [cppflags] -- *.c').
?X:
?MAKE:mkdep: spitshell startsh cpp +cppflags grep contains rm sed sort uniq \
 Getfile Oldconfig eunicefix cat +cc cppminus test pkgsrc _o
?MAKE: -pick add $@ %<
?S:mkdep:
?S: This variable holds the name of a command to generate makefile
?S: dependencies on the standard output. It is the pathname of the
?S: generated mkdep script.
?S:.
?F:mkdep
?T:IFS arg flags takeflags srcfile toplev filebase inc dir files file dep c
: find out how to generate dependencies
echo " "
echo "Checking how to generate makefile dependencies on your machine..." >&4
?X: We are in the UU directory
toplev=`cd ..;pwd`
$cat >dep.c <<'EOCP'
#include "dep.h"
EOCP
?X: Empty dep.h causes RIOS to barf
$cat >dep.h <<'EOCP'
```

```
EOCP
takeflags='flags=""
case
 "$@" in
*--*)
 for arg
 do
  shift
  case "$arg" in
  --) break;;
  *) flags="$flags $arg";;
  esac
 done;;
esac'
case "$mkdep" in
")
 ;;
*)
 if test -f "$mkdep" &&
  $mkdep dep.c >dep.out 2>/dev/null &&
  $contains "dep$_o:.*dep\.h" dep.out >/dev/null 2>&1
 then
  echo "$mkdep works."
?X: If they copied a config.sh from some other place, they'll have a working
?X: mkdep script probably, but not located at the top of the sources.  And
?X: the Makefiles generated by jmake expect an mkdep script in the top dir.
  case "$mkdep" in
  "$pkgsrc/mkdep");;
  *) echo "(copying it to $pkgsrc)"
   cp $mkdep $pkgsrc/mkdep 2>/dev/null
      if $pkgsrc/mkdep dep.c >dep.out 2>/dev/null &&
    $contains "dep$_o:.*dep\.h" dep.out >/dev/null 2>&1; then
    mkdep=$pkgsrc/mkdep
   else
    echo "Hmm... The copy failed or something... Guessing again..."
    mkdep=
   fi
   ;;
  esac
 else
  mkdep=
 fi
esac

case "$mkdep" in
")
?X: have to figure something out: Try cpp
?X: have
```

```
 to pass source names one by one to cpp...
 $spitshell > ../mkdep <<EOM
$startsh
$takeflags
for srcfile
do
 $cpp -M $cppflags \$flags \$srcfile 2>/dev/null
done
exit 0
EOM
 mkdep=$toplev/mkdep
 chmod +x $mkdep
 $eunicefix $mkdep
 if $mkdep dep.c >dep.out 2>/dev/null &&
  $contains "dep$_o:.*dep\.h" dep.out >/dev/null 2>&1
 then
  echo "Looks like we can use $cpp -M."
 else
  mkdep=
 fi
 ;;
esac

case "$mkdep" in
")
?X: have to figure something out: on NeXT, use cc -MM
?X: have to pass source names one by one to cc...
 $spitshell > ../mkdep <<EOM
$startsh
$takeflags
for srcfile
do
 $cc -MM $cppflags \$flags \$srcfile 2>/dev/null
done
exit 0
EOM
 mkdep=$toplev/mkdep
 chmod +x $mkdep
 $eunicefix $mkdep
 if $mkdep dep.c >dep.out 2>/dev/null &&
  $contains "dep$_o: dep.h" dep.out >/dev/null 2>&1
 then
  echo "Looks like we can use $cc -MM."
 else
  mkdep=
 fi
 ;;
esac
```

```
case "$mkdep" in
")
?X: still no luck -- try something fancier.
 $spitshell >../mkdep <<EOS
$startsh
$takeflags
for srcfile
do
 case
 "\$srcfile" in
 *.c) c='.c';;
 *.y) c='.y';;
 *.l) c='.l';;
 esac
 filebase=\`basename \$srcfile \$c\`
 <\$srcfile $cpp $cppminus $cppflags \$flags 2>/dev/null | \\
 $sed -e '/^# *[0-9]/!d' \\
  -e 's/^.*"\(.*\)".*\$/"\$filebase'$_o: \1/' \\
  -e 's|: \./|: |' \\
  -e 's|: *$|: "\$srcfile"|' | \\
 $grep -v '^#' | $sort | $uniq
done
exit 0
EOS
 mkdep=$toplev/mkdep
 chmod +x $mkdep
 $eunicefix $mkdep
 if $mkdep dep.c >dep.out 2>/dev/null &&
  $contains "dep$_o:.*dep\.h" dep.out >/dev/null 2>&1
 then
  echo "A shell script using $cpp does the trick."
 else
  echo "$cpp doesn't seem to be any use at all."
  $spitshell >../mkdep <<EOS
$startsh
$takeflags
files="\$@"
set X \$flags
shift
inc='.'
while test \$# -gt 0
do
 case "\$1" in
 -I)
  shift
  inc="\$inc:\$1"
  ;;
```

```
 -I*)
  dir=\`echo \$1 | sed -e 's/^-I//'\`
  inc="\$inc:\$dir"
  ;;
 esac
 shift
done
set X \$files
shift
trap "$rm -f /tmp/mkdep\$\$; exit 1" 1 2 3 15
for srcfile
do
 case "\$srcfile" in
 *.c) c='.c';;
 *.y) c='.y';;
 *.l)
 c='.l';;
 esac
 filebase=\`basename \$srcfile \$c\`
 echo \$filebase$_o: \$srcfile
 $grep '^#[  ]*include' \$srcfile /dev/null | \
 $sed -n -e 's/#[   ]*include[  ]*//' \\
  -e '/<\(.*\)>/ d' \\
  -e 's/:[^"]*"\([^"]*\)".*/: \1/' \\
  -e "s/\\.c:/$_o:/p" > /tmp/mkdep\$\$
?X: Deal with directories specified via -I requests to locate files
 IFS=': '
 while read file dep; do
  for dir in \$inc; do
   if $test -f "\$dir/\$dep"; then
    dep="\$dir/\$dep"
    break
   fi
  done
  echo "\$file: \$dep" | $sed -e 's,: \./,: ,'
 done </tmp/mkdep\$\$
 IFS=' '
 $rm -f /tmp/mkdep\$\$
done
exit 0
EOS
  mkdep=$toplev/mkdep
  chmod +x $mkdep
  $eunicefix $mkdep
  if $mkdep dep.c >dep.out 2>/dev/null &&
   $contains "dep$_o:.*dep\.h" dep.out >/dev/null 2>&1
  then
   cat << EOM
```

```
I can use a script with grep instead, but it will make some incorrect
dependencies, since it doesn't understand about conditional compilation.
Moreover, some dependencies may be missing, because scanning won't be
a
 recursive process.
If you have a program which generates makefile dependencies, you may want
to use it.  If not, you can use the script and edit the Makefile by hand
if you need to.
EOM
  else
   mkdep=
   cat << EOM

I can't seem to generate makefile dependencies at all!  Perhaps you have a
program that does?  If you don't, you might look at the mkdep script to
see if you can create one which works.
EOM
  fi
 fi
esac
echo " "
dflt="$mkdep"
fn=f~/
rp="Name of program to make makefile dependencies?"
. ./getfile
mkdep="$ans"
$rm -f dep.c dep.h dep$_o dep.out

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
5.36.0/dist/U/mkdep.U
No license file was found, but licenses were detected in source scan.

?RCS: Copyright (c) 2017, Lukas Mai
?RCS:
?RCS: You may distribute this file under the terms of either
?RCS:     a) the "Artistic License" which comes with Perl, or
?RCS:     b) the "Artistic License" which comes with dist, or
?RCS:     c) the GNU General Public License as published by the Free
?RCS:     Software Foundation; either version 1, or (at your option) any
?RCS:     later version (see the file "Copying" that comes with the
?RCS:     Perl distribution).
?RCS: Which one to use is your choice.
?RCS: See the U/README file.
?MAKE:d_builtin_add_overflow d_builtin_sub_overflow d_builtin_mul_overflow : Compile Setvar cat run rm_try
?MAKE: -pick add $@ %<
?S:d_builtin_add_overflow:
```

```
?S: This variable conditionally defines HAS_BUILTIN_ADD_OVERFLOW, which
?S: indicates that the compiler supports __builtin_add_overflow(x,y,&z)
?S: for safely adding x and y into z while checking for overflow.
?S:.
?S:d_builtin_sub_overflow:
?S: This
 variable conditionally defines HAS_BUILTIN_SUB_OVERFLOW, which
?S: indicates that the compiler supports __builtin_sub_overflow(x,y,&z)
?S: for safely subtracting y from x into z while checking for overflow.
?S:.
?S:d_builtin_mul_overflow:
?S: This variable conditionally defines HAS_BUILTIN_MUL_OVERFLOW, which
?S: indicates that the compiler supports __builtin_mul_overflow(x,y,&z)
?S: for safely multiplying x and y into z while checking for overflow.
?S:.
?C:HAS_BUILTIN_ADD_OVERFLOW:
?C: This symbol, if defined, indicates that the compiler supports
?C: __builtin_add_overflow for adding integers with overflow checks.
?C:.
?C:HAS_BUILTIN_SUB_OVERFLOW:
?C: This symbol, if defined, indicates that the compiler supports
?C: __builtin_sub_overflow for subtracting integers with overflow checks.
?C:.
?C:HAS_BUILTIN_MUL_OVERFLOW:
?C: This symbol, if defined, indicates that the compiler supports
?C: __builtin_mul_overflow for multiplying integers with overflow checks.
?C:.
?H:#$d_builtin_add_overflow
 HAS_BUILTIN_ADD_OVERFLOW /**/
?H:#$d_builtin_sub_overflow HAS_BUILTIN_SUB_OVERFLOW /**/
?H:#$d_builtin_mul_overflow HAS_BUILTIN_MUL_OVERFLOW /**/
?H:.
?F:!try
?LINT:set d_builtin_add_overflow d_builtin_sub_overflow d_builtin_mul_overflow
: Look for GCC-style __builtin_add_overflow
case "$d_builtin_add_overflow" in
")
   echo " "
   echo "Checking whether your compiler can handle __builtin_add_overflow ..." >&4
   $cat >try.c <<'EOCP'
int main(void) {
   const unsigned int uint_max = ~0u;
   int target_int = 0;
   if (__builtin_add_overflow(1, 2, &target_int) || target_int != 3) {
       return 1;
   }
   if (!__builtin_add_overflow((int)(uint_max >> 1), 1, &target_int)) {
       return 1;
```

```
  }
  if (!__builtin_add_overflow(uint_max, -1, &target_int)) {
      return 1;
  }
  return 0;
}
EOCP
  set try
  if eval $compile && $run ./try; then
      echo "Your C compiler supports __builtin_add_overflow."
      val="$define"
  else
      echo
 "Your C compiler doesn't seem to understand __builtin_add_overflow."
      val="$undef"
  fi
  ;;
*) val="$d_builtin_add_overflow" ;;
esac

set d_builtin_add_overflow
eval $setvar
$rm_try

: Look for GCC-style __builtin_sub_overflow
case "$d_builtin_sub_overflow" in
")
  echo " "
  echo "Checking whether your compiler can handle __builtin_sub_overflow ..." >&4
  $cat >try.c <<'EOCP'
int main(void) {
  const unsigned int uint_max = ~0u;
  int target_int = 0;
  if (__builtin_sub_overflow(1, -2, &target_int) || target_int != 3) {
      return 1;
  }
  if (!__builtin_sub_overflow(-(int)(uint_max >> 1), 2, &target_int)) {
      return 1;
  }
  if (!__builtin_sub_overflow(uint_max, 1, &target_int)) {
      return 1;
  }
  return 0;
}
EOCP
  set try
  if eval $compile && $run ./try; then
      echo "Your C compiler supports __builtin_sub_overflow."
```

```
        val="$define"
    else
        echo "Your C compiler doesn't seem to understand __builtin_sub_overflow."
         val="$undef"
    fi
    ;;
*) val="$d_builtin_sub_overflow" ;;
esac

set d_builtin_sub_overflow
eval $setvar
$rm_try

: Look for GCC-style __builtin_mul_overflow
case "$d_builtin_mul_overflow" in
")
    echo " "
    echo "Checking whether your compiler can handle __builtin_mul_overflow ..." >&4
    $cat >try.c <<'EOCP'
int main(void) {
    const unsigned int uint_max = ~0u;
    int target_int = 0;
    if (__builtin_mul_overflow(2, 3, &target_int) || target_int != 6) {
        return 1;
    }
    if (!__builtin_mul_overflow((int)(uint_max >> 1), 2, &target_int)) {
        return 1;
    }
    if (!__builtin_mul_overflow(uint_max, 1, &target_int)) {
        return 1;
    }
    return 0;
}
EOCP
    set try
    if eval $compile && $run ./try; then
        echo "Your C compiler supports __builtin_mul_overflow."
        val="$define"
    else
        echo "Your C compiler doesn't seem to understand __builtin_mul_overflow."
        val="$undef"
    fi
    ;;
*) val="$d_builtin_mul_overflow"
 ;;
esac

set d_builtin_mul_overflow
```

```
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_builtin_overflow.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Csym.U,v 3.0.1.4 1995/07/25 13:36:29 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Csym.U,v $
?RCS: Revision 3.0.1.4  1995/07/25  13:36:29  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS: patch56: added quotes for OS/2 support
?RCS:
?RCS: Revision 3.0.1.3  1995/05/12  12:00:33  ram
?RCS: patch54: fixed C test program to bypass gcc builtin type checks (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/10/31  09:34:13  ram
?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U
?RCS:
?RCS: Revision
 3.0.1.1  1993/08/25  14:00:05  ram
?RCS: patch6: added ldflags as a conditional dependency and to compile line
?RCS: patch6: a final double quote was missing in csym variable after eval
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:Csym mistrustnm extern_C: Options contains libc libs runnm test \
 +cc +optimize +ccflags +ldflags run rm_try _exe d_cplusplus
?MAKE: -pick add $@ %<
?LINT:define csym
?LINT:use libc
?LINT:extern mistrustnm
?LINT:set mistrustnm
?S:csym:
?S: This shell variable is used internally by Configure to check
?S: whether a given C symbol is defined or not. A typical use is:
?S:  set symbol result [-fva] [previous]
```

```
?S:  eval $csym
?S: That will set result to 'true' if the function [-f], variable [-v]
?S: or array [-a] is defined, 'false' otherwise. If a previous value is
?S: given and the -r flag was provided on the command line, that value
?S: is reused without questioning.
?S:.
?S:extern_C:
?S: ANSI C
 requires 'extern' where C++ requires 'extern "C"'. This
?S: variable can be used in Configure to do the right thing.
?S:.
?S:mistrustnm:
?S: This variable can be used to establish a fallthrough for the cases
?S: where nm fails to find a symbol.  If usenm is false or usenm is true
?S: and mistrustnm is false, this variable has no effect.  If usenm is true
?S: and mistrustnm is "compile", a test program will be compiled to try to
?S: find any symbol that can't be located via nm lookup.  If mistrustnm is
?S: "run", the test program will be run as well as being compiled.
?S:.
?V:csym
?T:tval tx tlook tf tdc
?F:!try
: is a C symbol defined?
csym='tlook=$1;
case "$3" in
-v) tf=libc.tmp; tdc="";;
-a) tf=libc.tmp; tdc="[]";;
*) tlook="^$1\$"; tf=libc.list; tdc="()";;
esac;
case "$d_cplusplus" in
   $define) extern_C="extern \"C\"" ;;
   *)  extern_C="extern" ;;
esac;
tx=yes;
case "$reuseval-$4" in
true-) ;;
true-*) tx=no; eval "tval=\$$4"; case "$tval" in "") tx=yes;; esac;;
esac;
case "$tx"
 in
yes)
?X:
?X: Put symbol inside a printf to fool optimizing compilers...
?X:
?X: We use 'short' instead of 'int' to try to circumvent overzealous
?X: optimizing compilers using built-in prototypes for commonly used
?X: routines to complain when seeing a different external declaration. For
?X: instance, gcc 2.6.3 fails if we use 'int' and we attempt a test against
```

```
?X: memcpy() on machines where sizeof(int) == sizeof(char *) (the usual return
?X: type), the compiler assuming it's a built-in declaration given that the
?X: returned size matches. At least with 'short' we are safe! -- RAM, for ADO
?X:
?X: Let's thank GNU cc for making our lives so easy! :-)
?X: (An alternative for the future would be to use our knowledge about gcc
?X: to force a -fno-builtin option in the compile test, in case the 'short'
?X: trick is obsoleted by future gcc releases). -- RAM
?X:
 tval=false;
 if $test "$runnm" = true; then
  if $contains $tlook $tf >/dev/null 2>&1; then
   tval=true;
  elif $test "$mistrustnm"
 = compile -o "$mistrustnm" = run; then
   echo "$extern_C void *$1$tdc; void *(*(p()))$tdc { return &$1; } int main(int argc, char **argv) { if(p() && p() !=
(void *)argv[0]) return(0); else return(1); }"> try.c;
   $cc -o try $optimize $ccflags $ldflags try.c >/dev/null 2>&1 $libs && tval=true;
   $test "$mistrustnm" = run -a -x try && { $run ./try$_exe >/dev/null 2>&1 || tval=false; };
   $rm_try;
  fi;
 else
  echo "$extern_C void *$1$tdc; void *(*(p()))$tdc { return &$1; } int main(int argc, char **argv) { if(p() && p() !=
(void *)argv[0]) return(0); else return(1); }"> try.c;
  $cc -o try $optimize $ccflags $ldflags try.c $libs >/dev/null 2>&1 && tval=true;
  $rm_try;
 fi;
 ;;
*)
 case "$tval" in
 $define) tval=true;;
 *) tval=false;;
 esac;
 ;;
esac;
eval "$2=$tval"'
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/Csym.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:fflushNULL fflushall: Compile cat rm rm_try test osname run to from \
 Oldconfig Myread Setvar echo targethost \
 d_sysconf i_unistd d_stdio_stream_array stdio_stream_array i_stdlib
?MAKE: -pick add $@ %<
?S:fflushNULL:
?S: This symbol, if defined, tells that fflush(NULL) correctly
?S: flushes all pending stdio output without side effects. In
?S: particular, on some platforms calling fflush(NULL) *still*
?S: corrupts STDIN if it is a pipe.
?S:.
?S:fflushall:
?S: This symbol, if defined, tells that to flush
?S: all
 pending stdio output one must loop through all
?S: the stdio file handles stored in an array and fflush them.
?S: Note that if fflushNULL is defined, fflushall will not
?S: even be probed for and will be left undefined.
?S:.
?C:FFLUSH_NULL:
?C: This symbol, if defined, tells that fflush(NULL) correctly
?C: flushes all pending stdio output without side effects. In
?C: particular, on some platforms calling fflush(NULL) *still*
?C: corrupts STDIN if it is a pipe.
?C:.
?C:FFLUSH_ALL:
?C: This symbol, if defined, tells that to flush
?C: all pending stdio output one must loop through all
?C: the stdio file handles stored in an array and fflush them.
?C: Note that if fflushNULL is defined, fflushall will not
?C: even be probed for and will be left undefined.
?C:.
?H:#$fflushNULL FFLUSH_NULL  /**/
?H:#$fflushall FFLUSH_ALL  /**/
?H:.
?T:output code
?F:!try.out !try !tryp
: Check how to flush
echo " "
$cat >&4 <<EOM
Checking how to flush all pending stdio output...
EOM
# I only know how to find
 the first 32 possibly open files on SunOS.
# See also hints/sunos_4_1.sh and util.c  --AD
```

```
case "$osname" in
sunos) $echo '#define PERL_FFLUSH_ALL_FOPEN_MAX 32' > try.c ;;
esac
$cat >>try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_unistd I_UNISTD
#ifdef I_UNISTD
# include <unistd.h>
#endif
#$d_sysconf HAS_SYSCONF
#$d_stdio_stream_array HAS_STDIO_STREAM_ARRAY
#ifdef HAS_STDIO_STREAM_ARRAY
# define STDIO_STREAM_ARRAY $stdio_stream_array
#endif
int main() {
 FILE* p;
 unlink("try.out");
 p = fopen("try.out", "w");
#ifdef TRY_FPUTC
 fputc('x', p);
#else
# ifdef TRY_FPRINTF
 fprintf(p, "x");
# endif
#endif
#ifdef TRY_FFLUSH_NULL
 fflush(NULL);
#endif
#ifdef TRY_FFLUSH_ALL
 {
   long open_max = -1;
# ifdef PERL_FFLUSH_ALL_FOPEN_MAX
   open_max = PERL_FFLUSH_ALL_FOPEN_MAX;
# else
#  if defined(HAS_SYSCONF) && defined(_SC_OPEN_MAX)
   open_max = sysconf(_SC_OPEN_MAX);
#  else
#   ifdef FOPEN_MAX
   open_max = FOPEN_MAX;
#   else
#
    ifdef OPEN_MAX
   open_max = OPEN_MAX;
#    else
```

```
#     ifdef _NFILE
   open_max = _NFILE;
#     endif
#    endif
#   endif
#  endif
# endif
# ifdef HAS_STDIO_STREAM_ARRAY
   if (open_max > 0) {
     long i;
     for (i = 0; i < open_max; i++)
     if (STDIO_STREAM_ARRAY[i]._file >= 0 &&
  STDIO_STREAM_ARRAY[i]._file < open_max &&
  STDIO_STREAM_ARRAY[i]._flag)
  fflush(&STDIO_STREAM_ARRAY[i]);
   }
 }
# endif
#endif
 _exit(42);
}
EOCP
: first we have to find out how _not_ to flush
$to try.c
if $test "X$fflushNULL" = X -o "X$fflushall" = X; then
   output=''
   set try -DTRY_FPUTC
   if eval $compile; then
     $run ./try 2>/dev/null
     code="$?"
     $from try.out
     if $test ! -s try.out -a "X$code" = X42; then
  output=-DTRY_FPUTC
     fi
   fi
   case "$output" in
   '')
     set try -DTRY_FPRINTF
     if eval $compile; then
      $run ./try 2>/dev/null
      code="$?"
      $from try.out
      if $test ! -s try.out -a "X$code" = X42; then
   output=-DTRY_FPRINTF

    fi
     fi
 ;;
```

```
   esac
fi
: check for fflush NULL behavior
case "$fflushNULL" in
") set try -DTRY_FFLUSH_NULL $output
 if eval $compile; then
  $run ./try 2>/dev/null
  code="$?"
  $from try.out
  if $test -s try.out -a "X$code" = X42; then
   fflushNULL="`$cat try.out`"
  else
   if $test "X$code" != X42; then
    $cat >&4 <<EOM
(If this test failed, don't worry, we'll try another method shortly.)
EOM
   fi
  fi
 fi
 $rm -f core try.core core.try.*
 case "$fflushNULL" in
 x) $cat >&4 <<EOM
Your fflush(NULL) works okay for output streams.
Let's see if it clobbers input pipes...
EOM
# As of mid-March 2000 all versions of Solaris appear to have a stdio
# bug that improperly flushes the input end of pipes.  So we avoid the
# autoflush on fork/system/exec support for now. :-(
$cat >tryp.c <<EOCP
#include <stdio.h>
int
main(int argc, char **argv)
{
   char buf[1024];
   int i;
   char *bp = buf;
   while (1) {
 while ((i = getc(stdin)) != -1
        && (*bp++ = i) != '\n'

     && bp < &buf[1024])
 /* DO NOTHING */ ;
 *bp = '\0';
 fprintf(stdout, "%s", buf);
 fflush(NULL);
 if (i == -1)
     return 0;
 bp = buf;
```

```
   }
}
EOCP
  fflushNULL="$define"
  set tryp
  if eval $compile; then
      $rm -f tryp.out
      # Copy the .c file to the remote host ($to is an ssh-alike if targethost is set)
      if $test "X$targethost" != X; then
   $to tryp.c
   $to tryp
   $run "cat tryp.c | ./tryp " 2>/dev/null > tryp.out
      else
   $cat tryp.c | $run ./tryp   2>/dev/null > tryp.out
      fi
      if cmp tryp.c tryp.out >/dev/null 2>&1; then
         $cat >&4 <<EOM
fflush(NULL) seems to behave okay with input streams.
EOM
   fflushNULL="$define"
      else
   $cat >&4 <<EOM
Ouch, fflush(NULL) clobbers input pipes!  We will not use it.
EOM
   fflushNULL="$undef"
      fi
  fi
  $rm -f core tryp.c tryp.core core.tryp.*
  ;;
 ") $cat >&4 <<EOM
Your fflush(NULL) isn't working (contrary to ANSI C).
EOM
  fflushNULL="$undef"
  ;;
 *) $cat >&4 <<EOM
Cannot figure out whether
 your fflush(NULL) works or not.
I'm assuming it doesn't (contrary to ANSI C).
EOM
  fflushNULL="$undef"
  ;;
 esac
 ;;
$define|true|[yY]*)
 fflushNULL="$define"
 ;;
*)
 fflushNULL="$undef"
```

```
 ;;
esac
: check explicit looping only if NULL did not work, and if the pipe
: bug does not show up on an explicit flush too
case "$fflushNULL" in
"$undef")
 $cat >tryp.c <<EOCP
#include <stdio.h>
int
main(int argc, char **argv)
{
   char buf[1024];
   int i;
   char *bp = buf;
   while (1) {
 while ((i = getc(stdin)) != -1
        && (*bp++ = i) != '\n'
        && bp < &buf[1024])
 /* DO NOTHING */ ;
 *bp = '\0';
 fprintf(stdout, "%s", buf);
 fflush(stdin);
 if (i == -1)
     return 0;
 bp = buf;
   }
}
EOCP
 set tryp
 if eval $compile; then
     $rm -f tryp.out
     if $test "X$targethost" != X; then
  $to tryp.c
  $to tryp
  $run "cat tryp.c | ./tryp " 2>/dev/null > tryp.out
     else
  $cat tryp.c | $run ./tryp   2>/dev/null > tryp.out
     fi
     if cmp tryp.c tryp.out >/dev/null 2>&1;
 then
        $cat >&4 <<EOM
Good, at least fflush(stdin) seems to behave okay when stdin is a pipe.
EOM
  : now check for fflushall behaviour
  case "$fflushall" in
  ") set try -DTRY_FFLUSH_ALL $output
   if eval $compile; then
    $cat >&4 <<EOM
```

```
(Now testing the other method--but note that this also may fail.)
EOM
    $run ./try 2>/dev/null
    code=$?
    $from try.out
    if $test -s try.out -a "X$code" = X42; then
     fflushall="`$cat try.out`"
    fi
   fi
   $rm_try
   case "$fflushall" in
   x) $cat >&4 <<EOM
Whew. Flushing explicitly all the stdio streams works.
EOM
    fflushall="$define"
    ;;
   ") $cat >&4 <<EOM
Sigh. Flushing explicitly all the stdio streams doesn't work.
EOM
    fflushall="$undef"
    ;;
   *) $cat >&4 <<EOM
Cannot figure out whether flushing stdio streams explicitly works or not.
I'm assuming it doesn't.
EOM
    fflushall="$undef"
    ;;
   esac
   ;;
  "$define"|true|[yY]*)
   fflushall="$define"
   ;;
  *)
   fflushall="$undef"
   ;;
  esac

 else
  $cat >&4 <<EOM
All is futile.  Even fflush(stdin) clobbers input pipes!
EOM
  fflushall="$undef"
     fi
 else
     fflushall="$undef"
 fi
 $rm -f core tryp.c tryp.core core.tryp.*
 ;;
```

```
*) fflushall="$undef"
 ;;
esac

case "$fflushNULL$fflushall" in
undefundef)
 $cat <<EOM
OK, I give up.  I cannot figure out how to flush pending stdio output.
We won't be flushing handles at all before fork/exec/popen.
EOM
 ;;
esac
$rm_try tryp
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/fflushall.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getopt.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getopt.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getopt: Inlibc
?MAKE: -pick add $@ %<
?S:d_getopt:
?S: This variable conditionally defines the HAS_GETOPT symbol, which
?S: indicates that the getopt() routine exists.  The getopt() routine
?S: parses command line options in a standard fashion.
?S:.
?C:HAS_GETOPT (GETOPT):
?C: This symbol, if defined, indicates that the getopt() routine
 exists.
?C:.
?H:#$d_getopt HAS_GETOPT  /**/
?H:.
?LINT:set d_getopt
: see if getopt exists
```

```
set getopt d_getopt
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getopt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: contains.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: contains.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:contains: Nothing
?MAKE: -pick add $@ %<
?S:contains:
?S: This variable holds the command to do a grep with a proper return
?S: status.  On most sane systems it is simply "grep".  On insane systems
?S: it is a grep followed by a cat followed by a test.  This variable
?S: is primarily for the use of other Configure units.
?S:.
: Some
 greps do not return status, grrr.
echo "grimblepritz" >grimble
if grep blurfldyick grimble >/dev/null 2>&1 ; then
 contains=contains
elif grep grimblepritz grimble >/dev/null 2>&1 ; then
 contains=grep
else
 contains=contains
fi
rm -f grimble
: the following should work in any shell
case "$contains" in
contains*)
 echo " "
 echo "AGH!  Grep doesn't return a status.  Attempting remedial action."
 cat >contains <<'EOSS'
grep "$1" "$2" >.greptmp && cat .greptmp && test -s .greptmp
```

```
EOSS
chmod +x contains
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/contains.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_longlong.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_longlong.U,v $
?RCS:
?MAKE:d_longlong longlongsize: Compile Setvar Myread run \
 cat rm_try test longsize
?MAKE: -pick add $@ %<
?S:d_longlong:
?S: This variable conditionally defines HAS_LONG_LONG if
?S: the long long type is supported.
?S:.
?S:longlongsize:
?S: This variable contains the value of the LONGLONGSIZE symbol, which
?S: indicates to the C program how many bytes there are in a long long,
?S: if this system supports long long.
?S:.
?C:HAS_LONG_LONG:
?C: This symbol will be defined if the C compiler supports long long.
?C:.
?C:LONGLONGSIZE:
?C: This symbol contains the size of a long long, so that the
?C: C preprocessor can make decisions based on it.  It is only
?C: defined
 if the system supports long long.
?C:.
?H:#$d_longlong HAS_LONG_LONG  /**/
?H:?LONGLONGSIZE:#ifdef HAS_LONG_LONG
?H:?LONGLONGSIZE:#define LONGLONGSIZE $longlongsize  /**/
?H:?LONGLONGSIZE:#endif
?H:.
?F:!try
?LINT:set d_longlong
: check for long long
echo " "
```

```
echo "Checking to see if you have long long..." >&4
echo 'int main() { long long x = 7; return 0; }' > try.c
set try
if eval $compile; then
 val="$define"
 echo "You have long long."
else
 val="$undef"
 echo "You do not have long long."
fi
$rm_try
set d_longlong
eval $setvar

@if LONGLONGSIZE || longlongsize
: check for length of long long
?X:  Check only if d_longlong and if longlongsize is not already set.
case "${d_longlong}${longlongsize}" in
$define)
 echo " "
 echo "Checking to see how big your long longs are..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
   printf("%d\n", (int)sizeof(long long));
   return(0);
}
EOCP
 set try
 if eval $compile_ok; then
  longlongsize=`$run ./try`
  echo "Your long
 longs are $longlongsize bytes long."
 else
  dflt='8'
  echo " "
  echo "(I can't seem to compile the test program.  Guessing...)"
  rp="What is the size of a long long (in bytes)?"
  . ./myread
  longlongsize="$ans"
 fi
 if $test "X$longsize" = "X$longlongsize"; then
  echo "(That isn't any different from an ordinary long.)"
 fi
 ;;
esac
$rm_try
```

@end

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_longlong.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Myinit.U,v $
?RCS: Revision 3.0.1.1  1994/10/31  09:47:29  ram
?RCS: patch44: leading comment states this unit comes before option processing
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: If you want to initialize any default values, copy this unit to your
?X: personal U directory and add the assignments to the end.  This file
?X: is included after variables are initialized but before any old
?X: config.sh file is read in and before
 any Configure switch processing.
?X:
?MAKE:Myinit: Init
?MAKE: -pick add $@ %<
?LINT: nocomment
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Myinit.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:run to from targetarch targetdir targetmkdir targethost targetport \
```

```
 usecrosscompile hostperl hostgenerate hostosname targetenv: \
    src test rm echo sed mkdir cp chmod make touch
?MAKE: -pick add $@ %<
?Y:TOP
?S:usecrosscompile:
?S: This variable conditionally defines the USE_CROSS_COMPILE symbol,
?S: and indicates that Perl has been cross-compiled.
?S:.
?S:run:
?S: This variable contains the command used by Configure
?S: to copy and execute a cross-compiled executable in the
?S: target host.  Useful and available only during Perl build.
?S: Empty string '' if not cross-compiling.
?S:.
?S:from:
?S: This variable contains the command used by Configure
?S: to copy files from the target host.  Useful
 and available
?S: only during Perl build.
?S: The string ':' if not cross-compiling.
?S:.
?S:to:
?S: This variable contains the command used by Configure
?S: to copy to from the target host.  Useful and available
?S: only during Perl build.
?S: The string ':' if not cross-compiling.
?S:.
?S:targetarch:
?S: If cross-compiling, this variable contains the target architecture.
?S: If not, this will be empty.
?S:.
?S:targetdir:
?S: This variable contains a path that will be created on the target
?S: host using targetmkdir, and then used to copy the cross-compiled
?S: executables to. Defaults to '/tmp' if not set.
?S:.
?S:targetmkdir:
?S: This variable contains the command used by Configure to create a
?S: new directory on the target host.
?S:.
?S:targethost:
?S: This variable contains the name of a separate host machine that
?S: can be used to run compiled test programs and perl tests on.
?S: Set to empty string if not in use.
?S:.
?S:targetport:
?S: This variable contains the number
```

```
 of a network port to be used to
?S: connect to the host in targethost, if unset defaults to 22 for ssh.
?S:.
?S:hostperl:
?S: This variable contains the path to a miniperl binary that can be
?S: run on the host OS when cross-compiling.  Useful and available only
?S: during Perl build.
?S: Empty string '' if not cross-compiling.
?S:.
?S:hostgenerate:
?S: This variable contains the path to a generate_uudmap binary that
?S: can be run on the host OS when cross-compiling.  Useful and
?S: available only during Perl build.
?S: Empty string '' if not cross-compiling.
?S:.
?S:hostosname:
?S: This variable contains the original value of '$^O' for hostperl
?S: when cross-compiling.  This is useful to pick the proper tools
?S: when running build code in the host.
?S: Empty string '' if not cross-compiling.
?S:.
?S:targetenv:
?S: If cross-compiling, this variable can be used to modify the
?S: environment on the target system.
?S: However, how and where it's used, and even if it's used at all, is
?S: entirely
 dependent on both the transport mechanism (targetrun) and
?S: what the target system is.  Unless the relevant documentation says
?S: otherwise, it is genereally not useful.
?S:.
?C:USE_CROSS_COMPILE:
?C: This symbol, if defined, indicates that Perl is being cross-compiled.
?C:.
?C:PERL_TARGETARCH:
?C: This symbol, if defined, indicates the target architecture
?C: Perl has been cross-compiled to.  Undefined if not a cross-compile.
?C:.
?H:?%<:#ifndef USE_CROSS_COMPILE
?H:?%<:#$usecrosscompile USE_CROSS_COMPILE /**/
?H:?%<:#define PERL_TARGETARCH "$targetarch" /**/
?H:?%<:#endif
?H:.
?D:targetenv=''
?D:targethost=''
?D:targetmkdir=''
?T:croak pwd exe f q cwd file xxx env
?LINT:extern usecrosscompile
?LINT:extern cc
```

```
?LINT:extern usrinc
?LINT:change ar
?LINT:change nm
?LINT:change ranlib
?LINT:change src
?LINT:extern targetenv
?LINT:extern targetport
?LINT:extern targetdir
?LINT:extern targetuser
?LINT:change targetuser
?LINT:extern targetrun
?LINT:extern targetfrom
?LINT:extern
 targetto
?LINT:change targetrun
?LINT:change targetfrom
?LINT:change targetto
?LINT:extern incpth
?LINT:extern libpth
?LINT:extern locincpth
?LINT:extern loclibpth
?LINT:change locincpth
?LINT:change loclibpth
?LINT:extern hostperl
?LINT:extern hostgenerate
?LINT:extern before_host
?LINT:change before_host
?LINT:extern hostosname
?LINT:extern multiarch
: Check for Cross-Compilation
?X: targethost and targetenv mainly set to allow ?S: documentation
?X:otherwise it could have been declared extern
if $test "X$targethost" = "X"; then
   targethost=""
fi
if $test "X$targetenv" = "X"; then
   targetenv=""
fi
case "$usecrosscompile" in
$define|true|[yY]*)
 $echo "Cross-compiling..."
 croak="
 case "$cc" in
 *-gcc*|*-g++*) # A cross-compiling gcc, probably.
     # arm-linux-androideabi-gcc  -> arm-linux-androideabi
     # x86_64-w64-mingw32-gcc.exe -> x86_64-w64-mingw32
     targetarch=`$echo $cc|$sed 's/-g[c\+][c\+].*$//'`
     ar=`$echo $cc|$sed 's/-g[c\+][c\+]/-ar/'`
```

```
    # leave out ld,
choosing it is more complex
    nm=`$echo $cc|$sed 's/-g[c\+][c\+]/-nm/'`
    ranlib=`$echo $cc|$sed 's/-g[c\+][c\+]/-ranlib/'`
    # We are in a weird spot. Just before us, some values
    # were 'saved', to be restored after the hints are
    # run.  This means that the changes we made to ar,
    # nm and ranlib will get reverted.
    # To avoid that, we hijack the saving mechanism and
    # have it save our new values.
    for file in ar nm ranlib; do
 eval xxx=\$$file
 eval $file=$xxx$_exe
 eval _$file=$xxx
    done
;;
esac
case "$targetarch" in
") echo "Targetarch not defined." >&4; croak=y ;;
*)  echo "Using targetarch $targetarch." >&4 ;;
esac
case "$targethost" in
") echo "Targethost not defined." >&4; croak=n ;;
*)  echo "Using targethost $targethost." >&4
esac
locincpth=' '
loclibpth=' '
case "$croak" in
y) echo "Cannot continue, aborting." >&4; exit 1 ;;
esac
  : compile a host miniperl and generate_uudmap, unless we got passed them
  if
$test "X$hostperl" = X; then
    echo "Building host miniperl and generate_uudmap binaries" >&4
    before_host=`pwd`
    cd ..
    cd $src
    src=`pwd`
    rm -rf $src/host
    mkdir $src/host
    cd $src/host
    $src/Configure -des -Dusedevel -Dmksymlinks
    $make miniperl
    case "$hostgenerate" in
    ") $make generate_uudmap
        hostgenerate=$src/host/generate_uudmap
        ;;
     "$undef") hostgenerate="
```

```
        ;;
    esac
    hostperl=$src/host/miniperl
    cd $before_host
  fi
  hostosname=`$hostperl -le 'print $^O'`
  ;;
*)
  usecrosscompile="$undef"
  ;;
esac

: Define -Dtargethost=somecomputer to run compiled tests on another machine
case "$targethost" in
  ") echo "Checking for cross-compile" >&4
  case "$usecrosscompile$multiarch" in
     *$define*) echo "Skipping the try tests in the rest of Configure as no targethost was defined when cross-
compiling" >&4
       if [ -f Makefile ]; then
         echo
 " "
         echo "Now you must ensure config.sh, config.h and the generated headers exist and run a $make."
       else
         echo "Configure done."
       fi
     exit 0
     ;;
   *) echo "No targethost for running compiler tests against defined, running locally" >&4
      run="
      to=:
      from=:
      ;;
  esac
  ;;
  *) echo "Using targethost $targethost." >&4
 case "$src" in
 /*) run=$src/Cross/run
    targetmkdir=$src/Cross/mkdir
    to=$src/Cross/to
    from=$src/Cross/from
    ;;
 *)  pwd=`$test -f ../Configure & cd ..; pwd`
    run=$pwd/Cross/run
    targetmkdir=$pwd/Cross/mkdir
    to=$pwd/Cross/to
    from=$pwd/Cross/from
    ;;
 esac
```

```
 case "$targetrun" in
 ") targetrun=ssh ;;
 esac
 case "$targetto" in
 ") targetto=scp ;;
 esac
 case "$targetfrom" in
 ") targetfrom=scp ;;
 esac
 run=$run-$targetrun
 to=$to-$targetto
 from=$from-$targetfrom
 case "$targetdir" in
 ")  targetdir=/tmp
     echo "Guessing targetdir $targetdir."
 >&4
     ;;
 esac
 case "$targetuser" in
 ")  targetuser=root
     echo "Guessing targetuser $targetuser." >&4
     ;;
 esac
 case "$targetport" in
 ")  targetport=22
     echo "Guessing targetport $targetport." >&4
     ;;
 esac
 case "$targetfrom" in
 scp) q=-q ;;
 *) q=" ;;
 esac
 case "$targetrun" in
 ssh|rsh)
    cat >$run <<EOF
#!/bin/sh
env="
case "\$1" in
-cwd)
 shift
 cwd=\$1
 shift
 ;;
esac
case "\$1" in
-env)
 shift
 env=\$1
```

```
 shift
 ;;
esac
case "\$cwd" in
") cwd=$targetdir ;;
esac
exe=\$1
shift
$to \$exe
$targetrun -p $targetport -l $targetuser $targethost "cd \$cwd && \$env \$exe \$@"
EOF
    ;;
 adb)
    $touch $run
    ;;
 *)  echo "Unknown targetrun '$targetrun'" >&4
    exit 1
    ;;
 esac
 case "$targetmkdir" in
 */Cross/mkdir)
    cat >$targetmkdir <<EOF
#!/bin/sh
$targetrun -p $targetport -l $targetuser $targethost "mkdir -p \$@"
EOF
    $chmod a+rx $targetmkdir
    ;;
 *)  echo "Unknown targetmkdir '$targetmkdir'" >&4
    exit 1
    ;;
 esac
 case
 "$targetto" in
 scp|rcp)
    cat >$to <<EOF
#!/bin/sh
for f in \$@
do
 case "\$f" in
 /*)
   $targetmkdir \`dirname \$f\`
   $targetto -P $targetport -r $q \$f $targetuser@$targethost:\$f          2>/dev/null  || exit 1
   ;;
 *)
   $targetmkdir $targetdir/\`dirname \$f\`
   $targetto -P $targetport -r $q \$f $targetuser@$targethost:$targetdir/\$f 2>/dev/null || exit 1
   ;;
 esac
```

```
done
exit 0
EOF
     ;;
 cp) cat >$to <<EOF
#!/bin/sh
for f in \$@
do
 case "\$f" in
 /*)
   $mkdir -p $targetdir/\`dirname \$f\`
   $cp \$f $targetdir/\$f || exit 1
   ;;
 *)
   $targetmkdir $targetdir/\`dirname \$f\`
   $cp \$f $targetdir/\$f || exit 1
   ;;
 esac
done
exit 0
EOF
     ;;
 *)  echo "Unknown targetto '$targetto'" >&4
     exit 1
     ;;
 esac
 case "$targetfrom" in
 scp|rcp)
   cat >$from <<EOF
#!/bin/sh
for f in \$@
do
 $rm -f \$f
 $targetfrom -P $targetport $q $targetuser@$targethost:$targetdir/\$f . || exit 1
done
exit 0
EOF
     ;;
 cp) cat >$from <<EOF
#!/bin/sh
for
 f in \$@
do
 $rm -f \$f
 cp $targetdir/\$f . || exit 1
done
exit 0
EOF
```

```
    ;;
 *)  echo "Unknown targetfrom '$targetfrom'" >&4
    exit 1
    ;;
 esac
 if $test ! -f $run; then
    echo "Target 'run' script '$run' not found." >&4
 else
    $chmod a+rx $run
 fi
 if $test ! -f $to; then
    echo "Target 'to' script '$to' not found." >&4
 else
    $chmod a+rx $to
 fi
 if $test ! -f $from; then
    echo "Target 'from' script '$from' not found." >&4
 else
    $chmod a+rx $from
 fi
 if $test ! -f $run -o ! -f $to -o ! -f $from; then
    exit 1
 fi
 cat >&4 <<EOF
Using '$run' for remote execution,
and '$from' and '$to'
for remote file transfer.
EOF
 ;;
*) run="
 to=:
 from=:
 usecrosscompile="$undef"
 targetarch="
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/Cross.U
No license file was found, but licenses were detected in source scan.

```
# $Id: errnolist.a,v 3.0 1993/08/18 12:04:35 ram Exp ram $
#
#  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
#
#  You may redistribute only under the terms of the Artistic Licence,
#  as specified in the README file that comes with the distribution.
```

```
#  You may reuse parts of this distribution only within the terms of
#  that same Artistic Licence; a copy of which may be found at the root
#  of the source tree for dist 4.0.
#
# Original Author: Harlan Stenn <harlan@mumps.pfcs.com>
#
# $Log: errnolist.a,v $
# Revision 3.0  1993/08/18 12:04:35  ram
# Baseline for dist 3.0 netwide release.
#
#
# This is a simple-minded awk script to generate an initialization for
# sys_errnolist on systems that don't have it.
# This file now depends only on sys/errno.h error numbers under maxerr being
# in order.  It will complain and die if not.  NOTE: It will still produce
# a compilable output file, even with errors, so you
 must check the output.


BEGIN  {
   format = "\t\"%s\",\n"
   printf("/*\n** This is a generated file.  Do NOT edit it unless you really have to...\n*/\n\n")
   printf("char *sys_errnolist[] = {\n")
   maxerr = 89
  }

$1=="#define" {
   if(count > maxerr || substr($2,1,1) != "E")
    next   # we're not interested
   if($3 < count) { # this is bad
    printf("Fatal error: %s out of order at %s\n",\
    FILENAME, $2)>"/dev/tty"
    exit 1
   }
   # fill in the blanks
   while($3 > count) {
    dummy=sprintf("EDUMMY%d",count)
    printf(format,dummy)
    count++
   }
   printf(format,$2)
   count++
  }

END  {
   printf("\t0\n};\n")
  }
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/lib/errnolist.a
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strstr.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strstr.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:37  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strstr: Inlibc
?MAKE: -pick add $@ %<
?S:d_strstr:
?S: This variable conditionally defines HAS_STRSTR if strstr() is
?S: available to find substrings.
?S:.
?C:HAS_STRSTR (STRSTR):
?C: This symbol, if defined, indicates that the strstr routine is
?C: available to find substrings.
?C:.
?H:#$d_strstr HAS_STRSTR /**/
?H:.
?LINT:set d_strstr
:
 see if strstr exists
set strstr d_strstr
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strstr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: You may redistribute only under the terms of the Artistic License,
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```

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: prefix.U,v $
?RCS: Revision 3.0.1.2  1995/01/30  14:44:05  ram
?RCS: patch49: new prefixexp variable holding a fully expanded prefix
?RCS: patch49: save off previous prefix value in oldprefix if changed (WED)
?RCS: patch49: added the INSTALLPREFIX define for C programs to use (WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:31:34  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:prefix prefixexp +oldprefix: Getfile Loc Oldconfig
 cat package
?MAKE: -pick add $@ %<
?S:prefix:
?S: This variable holds the name of the directory below which the
?S: user will install the package.  Usually, this is /usr/local, and
?S: executables go in /usr/local/bin, library stuff in /usr/local/lib,
?S: man pages in /usr/local/man, etc.  It is only used to set defaults
?S: for things in bin.U, mansrc.U, privlib.U, or scriptdir.U.
?S:.
?S:prefixexp:
?S: This variable holds the full absolute path of the directory below
?S: which the user will install the package.  Derived from prefix.
?S:.
?S:oldprefix:
?S: This variable is set non-null if the prefix was previously defined
?S: and gets set to a new value. Used internally by Configure only.
?S:.
?C:INSTALLPREFIX:
?C: This symbol contains the name of the install prefix for this package.
?C:.
?H:#define INSTALLPREFIX "$prefix"  /**/
?H:.
: determine root of directory hierarchy where package will be installed.
case "$prefix" in
")
 dflt=`./loc . /usr/local /usr/local /local /opt
 /usr`
 ;;
*)
 dflt="$prefix"
 ;;
esac
```

```
$cat <<EOM

By default, $package will be installed in $dflt/bin, manual
pages under $dflt/man, etc..., i.e. with $dflt as prefix for
all installation directories. Typically set to /usr/local, but you
may choose /usr if you wish to install $package among your system
binaries. If you wish to have binaries under /bin but manual pages
under /usr/local/man, that's ok: you will be prompted separately
for each of the installation directories, the prefix being only used
to set the defaults.

EOM
fn=d~
rp='Installation prefix to use?'
. ./getfile
oldprefix=''
case "$prefix" in
'') ;;
*)
 case "$ans" in
 "$prefix") ;;
 *) oldprefix="$prefix";;
 esac
 ;;
esac
prefix="$ans"
prefixexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/prefix.U
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```
?RCS: $Id: d_fmod.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_fmod.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:12:46  ram
?RCS: patch36: created by ADO
```

```
?RCS:
?MAKE:d_fmod: Inlibc
?MAKE: -pick add $@ %<
?S:d_fmod:
?S: This variable conditionally defines the HAS_FMOD symbol, which
?S: indicates to the C program that the fmod() routine is available.
?S: See also d_drem for the drem() routine which does roughly the same.
?S:.
?C:HAS_FMOD
 :
?C: This symbol, if defined, indicates that the fmod routine is
?C: available to compute the remainder r=x-n*y where n=trunc(x/y).
?C:.
?H:#$d_fmod HAS_FMOD  /**/
?H:.
?LINT:set d_fmod
: see if fmod exists
set fmod d_fmod
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_fmod.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_bcmp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_bcmp.U,v $
?RCS: Revision 3.0.1.2  1993/10/16  13:47:52  ram
?RCS: patch12: added magic support for bcmp()
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:00:44  ram
?RCS: patch10: now only defines HAS_BCMP, no macro remap on memcmp (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_bcmp: Inlibc
?MAKE: -pick add $@ %<
?S:d_bcmp:
```

```
?S: This variable conditionally defines the HAS_BCMP symbol
 if
?S: the bcmp() routine is available to compare strings.
?S:.
?C:HAS_BCMP:
?C: This symbol is defined if the bcmp() routine is available to
?C: compare blocks of memory.
?C:.
?H:#$d_bcmp HAS_BCMP /**/
?H:.
?M:bcmp: HAS_BCMP
?M:#ifndef HAS_BCMP
?M:#ifndef bcmp
?M:#define bcmp(s,d,l) memcmp((s),(d),(l))
?M:#endif
?M:#endif
?M:.
?LINT:set d_bcmp
: see if bcmp exists
set bcmp d_bcmp
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_bcmp.U
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```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cppstdin.U,v $
?RCS: Revision 3.0.1.4  1994/10/29  16:08:34  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.3  1994/01/24  14:05:38  ram
?RCS: patch16: comment for CPPLAST was missing
?RCS:
?RCS: Revision 3.0.1.2  1993/12/15  08:18:58  ram
?RCS: patch15: new variables cpprun and cpplast, guaranteed wrapper-free
?RCS: patch15: cppstdin now tries to use cc, even at the cost of a wrapper
?RCS:
```

```
?RCS: Revision 3.0.1.1  1993/08/25  14:00:53  ram
?RCS: patch6:
 remove wrapper when not actually used
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:38  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:cppstdin cppminus cpprun cpplast: contains test Myread Oldconfig Loc \
 cpp +cc rm hint osname gccversion startsh eunicefix
?MAKE: -pick add $@ %<
?S:cppstdin:
?S: This variable contains the command which will invoke the C
?S: preprocessor on standard input and put the output to stdout.
?S: It is primarily used by other Configure units that ask about
?S: preprocessor symbols.
?S:.
?S:cppminus:
?S: This variable contains the second part of the string which will invoke
?S: the C preprocessor on the standard input and produce to standard
?S: output.  This variable will have the value "-" if cppstdin needs
?S: a minus to specify standard input, otherwise the value is "".
?S:.
?S:cpprun:
?S: This variable contains the command which will invoke a C preprocessor
?S: on standard input and put the output to stdout. It is guaranteed not
?S: to be a wrapper
 and may be a null string if no preprocessor can be
?S: made directly available. This preprocessor might be different from the
?S: one used by the C compiler. Don't forget to append cpplast after the
?S: preprocessor options.
?S:.
?S:cpplast:
?S: This variable has the same functionality as cppminus, only it applies to
?S: cpprun and not cppstdin.
?S:.
?C:CPPSTDIN:
?C: This symbol contains the first part of the string which will invoke
?C: the C preprocessor on the standard input and produce to standard
?C: output.  Typical value of "cc -E" or "/lib/cpp", but it can also
?C: call a wrapper. See CPPRUN.
?C:.
?C:CPPMINUS:
?C: This symbol contains the second part of the string which will invoke
?C: the C preprocessor on the standard input and produce to standard
?C: output.  This symbol will have the value "-" if CPPSTDIN needs a minus
?C: to specify standard input, otherwise the value is "".
?C:.
?C:CPPRUN:
```

```
?C: This symbol contains the string which will invoke a C preprocessor on
?C: the
 standard input and produce to standard output. It needs to end
?C: with CPPLAST, after all other preprocessor flags have been specified.
?C: The main difference with CPPSTDIN is that this program will never be a
?C: pointer to a shell wrapper, i.e. it will be empty if no preprocessor is
?C: available directly to the user. Note that it may well be different from
?C: the preprocessor used to compile the C program.
?C:.
?C:CPPLAST:
?C: This symbol is intended to be used along with CPPRUN in the same manner
?C: symbol CPPMINUS is used with CPPSTDIN. It contains either "-" or "".
?C:.
?H:#define CPPSTDIN "$cppstdin"
?H:#define CPPMINUS "$cppminus"
?H:#define CPPRUN "$cpprun"
?H:#define CPPLAST "$cpplast"
?H:.
?F:cppstdin !testcpp.out !testcpp.c
?T:wrapper x_cpp x_minus ok
: see how we invoke the C preprocessor
echo " "
echo "Now, how can we feed standard input to your C preprocessor..." >&4
cat <<'EOT' >testcpp.c
#define ABC abc
#define XYZ xyz
ABC.XYZ
EOT
cd ..
if $test ! -f cppstdin;
 then
 echo "$startsh" >cppstdin
if $test "X$osname" = "Xaix" -a "X$gccversion" = X; then
?X: AIX cc -E doesn't show the absolute headerfile
?X: locations but we'll cheat by using the -M flag.
 echo 'cat >.$$.c; rm -f .$$.u; "$cc" ${1+"$@"} -M -c .$$.c 2>/dev/null; \
 test -s .$$.u && \
 awk """$2 ~ /\.h$/ { print "# 0 \""$2"\"" }""" .$$.u; \
 rm -f .$$.o .$$.u; "$cc" -E ${1+"$@"} .$$.c; rm .$$.c' >> cppstdin
else
 echo 'cat >.$$.c; "$cc" -E ${1+"$@"} .$$.c; rm .$$.c' >>cppstdin
fi; else
 echo "Keeping your $hint cppstdin wrapper."
fi
chmod 755 cppstdin
$eunicefix cppstdin
wrapper=`pwd`/cppstdin
ok='false'
```

```
cd UU

?X:
?X: We'll run the cpp tests again if we don't have any valid C preprocessor
?X: yet or don't know how to proceed without a wrapper (in which case cpprun
?X: is empty and that's really annoying...)
?X:
if $test "X$cppstdin" != "X" && \
 $cppstdin $cppminus <testcpp.c >testcpp.out 2>&1 && \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1
then
 echo "You used to use
 $cppstdin $cppminus so we'll use that again."
 case "$cpprun" in
 ") echo "But let's see if we can live without a wrapper..." ;;
 *)
  if $cpprun $cpplast <testcpp.c >testcpp.out 2>&1 && \
   $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1
  then
   echo "(And we'll use $cpprun $cpplast to preprocess directly.)"
   ok='true'
  else
   echo "(However, $cpprun $cpplast does not work, let's see...)"
  fi
  ;;
 esac
else
 case "$cppstdin" in
 ") ;;
 *)
  echo "Good old $cppstdin $cppminus does not seem to be of any help..."
  ;;
 esac
fi

if $ok; then
 : nothing
elif echo 'Maybe """$cc"' -E" will work...'; \
 $cc -E <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Yup, it does."
 x_cpp="$cc -E"
 x_minus=";
elif echo 'Nope...maybe """$cc"' -E -" will work...'; \
 $cc -E - <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Yup, it does."
 x_cpp="$cc -E"
```

```
 x_minus='-';
elif echo 'Nope...maybe """$cc"'
 -P" will work...'; \
 $cc -P <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Yipee, that works!"
 x_cpp="$cc -P"
 x_minus="";
elif echo 'Nope...maybe """$cc"' -P -" will work...'; \
 $cc -P - <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "At long last!"
 x_cpp="$cc -P"
 x_minus='-';
elif echo 'No such luck, maybe "'$cpp'" will work...'; \
 $cpp <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "It works!"
 x_cpp="$cpp"
 x_minus="";
elif echo 'Nixed again...maybe "'$cpp' -" will work...'; \
 $cpp - <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Hooray, it works!  I was beginning to wonder."
 x_cpp="$cpp"
 x_minus='-';
elif echo 'Uh-uh.  Time to get fancy.  Trying a wrapper...'; \
 $wrapper <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 x_cpp="$wrapper"
 x_minus="
 echo
 "Eureka!"
else
 dflt="
 rp="No dice.  I can't find a C preprocessor.  Name one:"
 . ./myread
 x_cpp="$ans"
 x_minus="
 $x_cpp <testcpp.c >testcpp.out 2>&1
 if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
  echo "OK, that will do." >&4
 else
echo "Sorry, I can't get that to work.  Go find one and rerun Configure." >&4
  exit 1
 fi
fi
```

```
case "$ok" in
false)
 cppstdin="$x_cpp"
 cppminus="$x_minus"
 cpprun="$x_cpp"
 cpplast="$x_minus"
?X:
?X: If /lib/cpp is used, try using a wrapper to increase our chances to have
?X: the C compiler and our $cppstdin agree on the same symbols... However,
?X: since cpprun is guaranteed not to be a wrapper, we must clear it if the
?X: only preprocessor we found was a wrapper, with all our luck...
?X:
 set X $x_cpp
 shift
 case "$1" in
 "$cpp")
  echo "Perhaps can we force $cc -E using a wrapper..."
  if $wrapper <testcpp.c >testcpp.out 2>&1; \
   $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1
  then
   echo "Yup, we can."
   cppstdin="$wrapper"
   cppminus=";
  else
   echo
 "Nope, we'll have to live without it..."
  fi
  ;;
 esac
 case "$cpprun" in
 "$wrapper")
  cpprun="
  cpplast="
  ;;
 esac
 ;;
esac

case "$cppstdin" in
"$wrapper"|'cppstdin') ;;
*) $rm -f $wrapper;;
esac
$rm -f testcpp.c testcpp.out
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/cppstdin.U

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```
?RCS: $Id: Init.U,v 3.0.1.1 1994/10/31 09:45:59 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Init.U,v $
?RCS: Revision 3.0.1.1  1994/10/31  09:45:59  ram
?RCS: patch44: removed Options from MAKE to prevent Init overrides
?RCS: patch44: option processing now done after Myinit thanks to new Begin.U
?RCS: patch44: moved "Beginning of configuration questions" to Begin.U
?RCS: patch44: moved signal trapping instruction to Begin.U as well
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file
 initializes certain default variables used by Configure.  They
?X: may be overridden or added to by definitions in Myinit.U.
?X:
?MAKE:Init eunicefix: Null
?MAKE: -pick add $@ %<
?MAKE: -pick weed $@ ./Init
?S:eunicefix:
?S: When running under Eunice this variable contains a command which will
?S: convert a shell script to the proper form of text file for it to be
?S: executable by the shell.  On other systems it is a no-op.
?S:.
?V:define undef smallmach:rmlist
?X:
?X: Throughout the units, one may make use of $define and $undef to reference
?X: a defined symbol or an undefined one. There is no need to add them in
?X: the dependency line since this unit makes them visible via ?V:, and
?X: everyone inherits from those symbols since by convention Init.U is the
?X: root dependency.
?X:
?LINT:extern DJGPP
?LINT:extern _exe
?LINT:change _exe
?LINT:extern is_os2
: Detect odd OSs
```

```
define='define'
undef='undef'
smallmach='pdp11 i8086 z8000 i80286 iAPX286'
rmlist=''

: We must find out about
 Eunice early
eunicefix=':'
if test -f /etc/unixtovms; then
 eunicefix=/etc/unixtovms
fi
if test -f /etc/unixtovms.exe; then
 eunicefix=/etc/unixtovms.exe
fi

: Set executable suffix now -- needed before hints available
if test -f "/libs/version.library"; then
: Amiga OS
   _exe=""
elif test -f "/system/gnu_library/bin/ar.pm"; then
: Stratus VOS
   _exe=".pm"
elif test -n "$DJGPP"; then
: DOS DJGPP
   _exe=".exe"
elif test -f /kern/cookiejar; then
: MiNT
   _exe=""
elif test -d c:/. -o -n "$is_os2" ; then
: OS/2 or cygwin
   _exe=".exe"
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Init.U
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```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: d_open3.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:37:12  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  13:58:26  ram
?RCS: patch56: added knowledge of the O_NONBLOCK symbol
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_open3: test +cc cat +cppflags h_fcntl h_sysfile rm Setvar Findhdr Warn
?MAKE: -pick add $@ %<
?X: It would be easy to separate the h_O_stuff from this.
?X: Is there a reason
 to do so? -- HMS
?S:d_open3:
?S: This variable conditionally defines the HAS_OPEN3 manifest constant,
?S: which indicates to the C program that the 3 argument version of
?S: the open(2) function is available.
?S:.
?C:HAS_OPEN3 (OPEN3):
?C: This manifest constant lets the C program know that the three
?C: argument form of open(2) is available.
?C:.
?H:#$d_open3 HAS_OPEN3  /**/
?H:.
?W:%<:O_RDONLY O_WRONLY O_RDWR O_NDELAY O_APPEND O_SYNC O_CREAT O_TRUNC
?W:%<:O_EXCL O_NONBLOCK
?F:!open3
?LINT:set d_open3
?LINT:change h_fcntl h_sysfile
: Locate the flags for 'open()'
echo " "
$cat >open3.c <<'EOCP'
#include <sys/types.h>
#ifdef I_FCNTL
#include <fcntl.h>
#endif
#ifdef I_SYS_FILE
#include <sys/file.h>
#endif
int main() {
 if(O_RDONLY);
#ifdef O_TRUNC
 exit(0);
#else
 exit(1);
#endif
```

```
}
EOCP
: check sys/file.h first to get FREAD on Sun
if $test `./findhdr sys/file.h` && \
  $cc $cppflags "-DI_SYS_FILE" -o open3 open3.c >/dev/null 2>&1 ; then
 h_sysfile=true;
 echo "<sys/file.h> defines the
 O_* constants..." >&4
 if ./open3; then
  echo "and you have the 3 argument form of open()." >&4
  val="$define"
 else
  echo "but not the 3 argument form of open().  Oh, well." >&4
  val="$undef"
 fi
elif $test `./findhdr fcntl.h` && \
  $cc "-DI_FCNTL" -o open3 open3.c >/dev/null 2>&1 ; then
 h_fcntl=true;
 echo "<fcntl.h> defines the O_* constants..." >&4
 if ./open3; then
  echo "and you have the 3 argument form of open()." >&4
  val="$define"
 else
  echo "but not the 3 argument form of open().  Oh, well." >&4
  val="$undef"
 fi
else
 val="$undef"
 ./warn "I can't find the O_* constant definitions!  You got problems."
fi
set d_open3
eval $setvar
$rm -f open3*
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_open3.U
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```
?RCS: $Id: d_bcopy.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: d_bcopy.U,v $
?RCS: Revision 3.0.1.2  1993/10/16  13:48:04  ram
?RCS: patch12: added magic support for bcopy()
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:01:11  ram
?RCS: patch10: now only defines HAS_BCOPY, no macro remap on memcpy (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_bcopy: Inlibc
?MAKE: -pick add $@ %<
?S:d_bcopy:
?S: This variable conditionally defines the HAS_BCOPY
 symbol if
?S: the bcopy() routine is available to copy strings.
?S:.
?C:HAS_BCOPY:
?C: This symbol is defined if the bcopy() routine is available to
?C: copy blocks of memory.
?C:.
?H:#$d_bcopy HAS_BCOPY /**/
?H:.
?M:bcopy: HAS_BCOPY
?M:#ifndef HAS_BCOPY
?M:#ifndef bcopy
?M:#define bcopy(s,d,l) memcpy((d),(s),(l))
?M:#endif
?M:#endif
?M:.
?LINT:set d_bcopy
: see if bcopy exists
set bcopy d_bcopy
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_bcopy.U
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```
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```

```
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_drand48proto: Hasproto i_stdlib i_unistd
?MAKE: -pick add $@ %<
?S:d_drand48proto:
?S: This variable conditionally defines the HAS_DRAND48_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the drand48() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_DRAND48_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the drand48() function.  Otherwise, it is up
?C: to the program to supply one.  A good guess
 is
?C:  extern double drand48(void);
?C:.
?H:#$d_drand48proto HAS_DRAND48_PROTO /**/
?H:.
?LINT:set d_drand48proto
: see if prototype for drand48 is available
echo " "
set d_drand48proto drand48 $i_stdlib stdlib.h $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/d_drand48proto.U
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```
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?RCS:
?MAKE:d_copysign: Inlibc
?MAKE: -pick add $@ %<
?S:d_copysign:
?S: This variable conditionally defines the HAS_COPYSIGN symbol, which
?S: indicates to the C program that the copysign() routine is available.
?S:.
?C:HAS_COPYSIGN:
?C: This symbol, if defined, indicates that the copysign routine is
?C: available to do the copysign function.
?C:.
```

```
?H:#$d_copysign HAS_COPYSIGN  /**/
?H:.
?LINT:set d_copysign
: see if copysign exists
set copysign d_copysign
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_copysign.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_setlocale d_setlocale_accepts_any_locale_name d_has_C_UTF8: \
 cat Compile run rm_try i_locale i_wctype d_towupper Setvar Myread
?MAKE: -pick add $@ %<
?S:d_has_C_UTF8:
?S: This variable is set to either "true" or "false" depending on
?S: whether the compilation system supports the C.UTF-8 locale.
?S:.
?S:d_setlocale:
?S: This variable conditionally defines HAS_SETLOCALE if setlocale() is
?S: available to handle locale-specific ctype implementations.
?S:.
?S:d_setlocale_accepts_any_locale_name:
?S: This
 variable conditionally defines SETLOCALE_ACCEPTS_ANY_LOCALE_NAME
?S: if setlocale() accepts any locale name.
?S:.
?C:HAS_SETLOCALE:
?C: This symbol, if defined, indicates that the setlocale routine is
?C: available to handle locale-specific ctype implementations.
?C:.
?C:SETLOCALE_ACCEPTS_ANY_LOCALE_NAME:
?C: This symbol, if defined, indicates that the setlocale routine is
?C: available and it accepts any input locale name as valid.
?C:.
?H:#$d_setlocale HAS_SETLOCALE /**/
?H:#$d_setlocale_accepts_any_locale_name SETLOCALE_ACCEPTS_ANY_LOCALE_NAME /**/
?H:.
```

```
?F:!try
?T:LC_CTYPE c_utf8_locale
: check for setlocale function and behavior
case "$d_setlocale" in
")
$cat >&4 <<EOM

Checking to see if you have setlocale() and its behavior
EOM
$cat >try.c <<EOCP
#include <stdlib.h>
#include <string.h>
#$i_locale I_LOCALE
#ifdef I_LOCALE
#  include <locale.h>
#endif
#$i_wctype I_WCTYPE
#ifdef I_WCTYPE
#  include <wctype.h>
#endif

int main() {
   const char * invalid_name
 = "\a";   /* This is really invalid! */
   int accepts_any_locale_name = 0;
   int has_C_UTF8 = 0;
   unsigned char bad_setlocale = 255;

   /* If LC_CTYPE isn't defined the compilation will fail, and locales will be
    * disabled.  It's hard to imagine an instance where meaningful locale
    * handling could be done without LC_CTYPE */
   const char *  name = setlocale(LC_CTYPE, "C");

   if (name == NULL || strcmp(name, "C") != 0) {
       exit(bad_setlocale);
   }

   name = setlocale(LC_CTYPE, invalid_name);
   if (name != NULL) {

       /* Let it pass if it accepts the name but gives back one of the C
        * locales */
       if (strcmp(name, "C") != 0 && strcmp(name, "C.UTF-8") != 0) {
           accepts_any_locale_name = 1;
       }
   }

   name = setlocale(LC_CTYPE, "C.UTF-8");
```

```
   if (name != NULL) {
      unsigned char y_with_diaeresis = ('A' == 193) ? 0xDF : 0xFF;

#$d_towupper HAS_TOWUPPER
#ifdef HAS_TOWUPPER

      /* We assume that if
 the machine doesn't have the C99 towupper, it
       * doesn't have C.UTF-8, even if we successfully changed locales to
       * include it.  This seems safer even on platforms that didn't accept
       * the really invalid name */

      if (towupper(y_with_diaeresis) == 0x178) {
         has_C_UTF8 = 1;
      }

#endif

   }

#if 0

   /* Currently unused code to determine if LC_ALL with disparate values uses
    * category = value pairs or positional, and to determine the separator
    * between the categories.  We could add code so that if the separator were
    * > '9', we subtract 10; similarly for 'Z' and 'z', and then just about
    * every possible ASCII separator would fit in the 5 bits available in the
    * exit code.  This would not be true in EBCDIC.  And then if LC_ALL is
    * positional, we probably would want to know the order of the categories.
    * Using a file between the C program and the shell script would really be
    * require to do that
 */
#ifdef LC_ALL

   unsigned char min_separator = ' ' - 1;
   unsigned char separator = min_separator;
   int uses_name_value_pair_names = 0;

   name = setlocale(LC_ALL, "C");
   if (name == NULL || strcmp(name, "C") != 0) {
      exit(bad_setlocale);
   }

   if (has_C_UTF8) {
      char * pos;

      name = setlocale(LC_CTYPE, "C.UTF-8");
      if (name == NULL) {
```

```
        exit(bad_setlocale);
    }
    name = setlocale(LC_ALL, NULL);
    if (name == NULL) {
        exit(bad_setlocale);
    }

    pos = strstr(name, "LC_CTYPE" "=C.UTF-8");
    if (pos != NULL) {
        uses_name_value_pair_names = 1;
        if (pos == name) {
            separator = name[sizeof("LC_CTYPE=C.UTF-8") - 1];
        }
        else {
            separator = *(pos - 1);
        }
    }
    else {
        pos = strstr(name, "C.UTF-8");
        if (pos == NULL) {
            /* bad */
        }

  else if (pos == name) {
            separator = name[sizeof("C.UTF-8") - 1];
        }
        else {
            separator = *(pos - 1);
        }
    }
  }

#endif
#endif

  exit( 0 /* (separator - min_separator) << 3
    | uses_name_value_pair_names      << 2
      */
    | has_C_UTF8                      << 1
    | accepts_any_locale_name);

}
EOCP
val=
set d_setlocale
eval $setvar
case $d_setlocale in
  $undef) d_setlocale_accepts_any_locale_name="$undef"
```

```
        d_has_C_UTF8="false"
        ;;
  *) set try
     if eval $compile; then
        echo "Your system has setlocale()..." >&4
        $run ./try
        case $? in
           0) echo "and it seems sane; you don't have a C.UTF-8 locale" >&4
              d_setlocale="$define"
              d_setlocale_accepts_any_locale_name="$undef"
              d_has_C_UTF8="false"
              ;;
           1) echo "and it seems sane, but accepts
 any locale name as valid" >&4
              d_setlocale="$define"
              d_setlocale_accepts_any_locale_name="$define"
              d_has_C_UTF8="false"
              ;;
           2) echo "and it seems sane; you have a C.UTF-8 locale" >&4
              d_setlocale="$define"
              d_setlocale_accepts_any_locale_name="$undef"
              d_has_C_UTF8="true"
              ;;
           3) echo "and it seems sane, but accepts any locale name as valid" >&4
              d_setlocale="$define"
              d_setlocale_accepts_any_locale_name="$define"
              d_has_C_UTF8="true"
              ;;
           *) echo "but it doesn't seem to work, so we won't use it." >&4
              d_setlocale="$undef"
              d_setlocale_accepts_any_locale_name="$undef"
              d_has_C_UTF8="false"
              ;;
        esac
     else
        echo "your system does not have setlocale()"
 >&4
        d_setlocale="$undef"
        d_setlocale_accepts_any_locale_name="$undef"
        d_has_C_UTF8="false"
     fi
esac
$rm_try
;;
*) val="$d_setlocale"
   set d_setlocale
   eval $setvar
   case "$d_setlocale" in
```

```
    $undef) echo "There may be other ways to set the locale on your system, so we need to ask:" >&4
    ;;
  esac
  rp="Does your system have the C.UTF-8 locale?"
  dflt=n
  . ./myread
  case "$ans" in
    [Yy]*) d_has_C_UTF8="true"
           c_utf8_locale=" or C.UTF-8"
           ;;
    *)     d_has_C_UTF8="false"
           c_utf8_locale=""
           ;;
  esac
  case "$d_setlocale" in
    $define)
        rp="When you set your locale to something besides C$c_utf8_locale, does it do so, or just pretend to?" >&4
        dflt=n
        . ./myread
        case "$ans" in
          true|[Yy]*)
   d_setlocale_accepts_any_locale_name="$undef"
   ;;
 *) d_setlocale_accepts_any_locale_name="$define"

  ;;
        esac
        ;;
    *) d_setlocale_accepts_any_locale_name="$undef"
   ;;
  esac
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_setlocale.U
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```
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?RCS: of the source tree for dist 3.0.
?RCS:
```

```
?MAKE:d_sockatmarkproto: Hasproto d_socket
?MAKE: -pick add $@ %<
?S:d_sockatmarkproto:
?S: This variable conditionally defines the HAS_SOCKATMARK_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the sockatmark() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_SOCKATMARK_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the sockatmark() function.  Otherwise, it is up
?C: to the program to supply one.  A good
 guess is
?C:  extern int sockatmark(int);
?C:.
?H:#$d_sockatmarkproto HAS_SOCKATMARK_PROTO /**/
?H:.
?LINT:set d_sockatmarkproto
: see if prototype for sockatmark is available
echo " "
set d_sockatmarkproto sockatmark $d_socket sys/socket.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_sockatmarkproto.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Signal.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:20:01  ram
?RCS: patch61: created
?RCS:
?X:
?X: This unit produces three files:
?X:
?X: 1- A signal.c file, which, when compiled and run, produces an output like:
?X:
?X:   HUP 1
```

```
?X:   INT 2
?X:   QUIT 3
?X:   etc...
?X:
?X: 2- A signal.awk script to parse the output of signal.c, fill
?X: in gaps (up to NSIG) and move duplicates to the end.
?X:
?X: 3- A signal_cmd script to compile signal.c and run it
?X: through sort -n -k 2 | uniq | awk -f signal.awk.
?X:
 (we try also sort -n +1 since some old hosts don't grok sort -k)
?X: (This is called signal_cmd to avoid OS/2 confusion with
?X: signal.cmd vs. signal.
?X: The signal_cmd script also falls back on checking signals one at a
?X: time in case the signal.c program fails.  On at least one version of
?X: Linux 2.1.x, the header file #define'd SIGRTMAX to a symbol that
?X: is not defined by the compiler/linker. :-(.  Further, on that same
?X: version of Linux, the user had a defective C-shell that gave an
?X: incorrect list for kill -l, so the fall-back didn't work.
?X:
?X: This unit is then used by sig_name.U.
?X:
?MAKE:Signal: test tr rm awk cat grep startsh eunicefix sed sort uniq \
 Findhdr cppstdin +cppflags cppminus Compile trnl run
?MAKE: -pick add $@ %<
?X:all files declared as "public" since they're used from other units
?F:signal.c signal_cmd signal.lst signal signal.awk
?T: xx xxx xxxfiles
?LINT:use rm run
: Trace out the files included by signal.h, then look for SIGxxx
 names.
?X: Remove SIGARRAYSIZE used by HPUX.
?X: Remove SIGSTKSIZE used by Linux.
?X: Remove SIGSTKSZ used by Posix.
?X: Remove SIGTYP void lines used by OS2.
?X: Some cpps, like os390, dont give the file name anywhere
if [ "X$fieldn" = X ]; then
 : Just make some guesses.  We check them later.
 xxx='/usr/include/signal.h /usr/include/sys/signal.h'
else
 xxx=`echo '#include <signal.h>' |
 $cppstdin $cppminus $cppflags 2>/dev/null |
 $grep '^[  ]*#.*include' |
 $awk "{print \\$$fieldn}" | $sed 's!"!!g' |\
  $sed 's!\\\\\\\\!/!g' | $sort | $uniq`
fi
?X: Check this list of files to be sure we have parsed the cpp output ok.
?X: This will also avoid potentially non-existent files, such
```

```
?X: as ../foo/bar.h
xxxfiles="
?X: Add /dev/null in case the $xxx list is empty.
for xx in $xxx /dev/null ; do
 $test -f "$xx" && xxxfiles="$xxxfiles $xx"
done
?X: If we have found no files, at least try signal.h
case "$xxxfiles" in
") xxxfiles=`./findhdr signal.h` ;;
esac
xxx=`awk '
$1 ~ /^#define$/ &&
 $2 ~ /^SIG[A-Z0-9]*$/ && $2 !~ /SIGARRAYSIZE/ && $2 !~ /SIGSTKSIZE/ && $2 !~ /SIGSTKSZ/ && $3 !~
/void/ {
 print substr($2, 4, 20)
}
$1 == "#" && $2 ~ /^define$/ && $3 ~ /^SIG[A-Z0-9]*$/ && $3 !~ /SIGARRAYSIZE/ && $4 !~ /void/ {
 print substr($3, 4, 20)
}' $xxxfiles`
: Append some common names just in case the awk scan failed.
xxx="$xxx ABRT ALRM BUS CANCEL CHLD CLD CONT DIL EMT FPE"
xxx="$xxx FREEZE HUP ILL INT IO IOT KILL LOST LWP PHONE"
xxx="$xxx PIPE POLL PROF PWR QUIT RTMAX RTMIN SEGV STKFLT STOP"
xxx="$xxx SYS TERM THAW TRAP TSTP TTIN TTOU URG USR1 USR2"
xxx="$xxx USR3 USR4 VTALRM WAITING WINCH WIND WINDOW XCPU XFSZ"

: generate a few handy files for later
$cat > signal.c <<'EOCP'
#include <sys/types.h>
#include <signal.h>
#include <stdio.h>
int main() {

/* Strange style to avoid deeply-nested #if/#else/#endif */
#ifndef NSIG
#  ifdef _NSIG
#    define NSIG (_NSIG)
#  endif
#endif

#ifndef NSIG
#  ifdef SIGMAX
#    define NSIG (SIGMAX+1)
#  endif
#endif

#ifndef NSIG
#  ifdef SIG_MAX
```

```
#
   define NSIG (SIG_MAX+1)
#  endif
#endif

#ifndef NSIG
#  ifdef MAXSIG
#    define NSIG (MAXSIG+1)
#  endif
#endif

#ifndef NSIG
#  ifdef MAX_SIG
#    define NSIG (MAX_SIG+1)
#  endif
#endif

#ifndef NSIG
#  ifdef SIGARRAYSIZE
#    define NSIG (SIGARRAYSIZE+1) /* Not sure of the +1 */
#  endif
#endif

#ifndef NSIG
#  ifdef _sys_nsig
#    define NSIG (_sys_nsig) /* Solaris 2.5 */
#  endif
#endif

/* Default to some arbitrary number that's big enough to get most
  of the common signals.
*/
#ifndef NSIG
#    define NSIG 50
#endif

printf("NSIG %d\n", NSIG);

#ifndef JUST_NSIG

EOCP

echo $xxx | $tr ' ' $trnl | $sort | $uniq | $awk '
{
 printf "#ifdef SIG"; printf $1; printf "\n"
 printf "printf(\""; printf $1; printf " %%d\\n\",SIG";
 printf $1; printf ");\n"
 printf "#endif\n"
```

```
}
END {
 printf "#endif /* JUST_NSIG */\n";
 printf "exit(0);\n}\n";
}
' >>signal.c
$cat >signal.awk <<'EOP'
BEGIN { ndups = 0 }
$1 ~ /^NSIG$/ { nsig = $2 }
($1 !~ /^NSIG$/) && (NF == 2) {
   if ($2 >
 maxsig) { maxsig = $2 }
   if (sig_name[$2]) {
 dup_name[ndups] = $1
 dup_num[ndups] = $2
 ndups++
   }
   else {
 sig_name[$2] = $1
 sig_num[$2] = $2
   }
}
END {
   if (nsig == 0) {
    nsig = maxsig + 1
   }
   printf("NSIG %d\n", nsig);
   for (n = 1; n < nsig; n++) {
 if (sig_name[n]) {
     printf("%s %d\n", sig_name[n], sig_num[n])
 }
 else {
     printf("NUM%d %d\n", n, n)
 }
   }
   for (n = 0; n < ndups; n++) {
 printf("%s %d\n", dup_name[n], dup_num[n])
   }
}
EOP
$cat >signal_cmd <<EOS
$startsh
if $test -s signal.lst; then
   echo "Using your existing signal.lst file"
 exit 0
fi
xxx="$xxx"
EOS
```

```
?X: Avoid variable interpolation problems, especially with
?X: xxx, which contains newlines.
$cat >>signal_cmd <<'EOS'

set signal
if eval $compile_ok; then
 $run ./signal$_exe | ($sort -n -k 2 2>/dev/null || $sort -n +1) |\
  $uniq | $awk -f signal.awk >signal.lst
else
 echo "(I can't seem be able to compile the whole test program)" >&4
 echo "(I'll try it in little
 pieces.)" >&4
 set signal -DJUST_NSIG
 if eval $compile_ok; then
  $run ./signal$_exe > signal.nsg
  $cat signal.nsg
 else
  echo "I can't seem to figure out how many signals you have." >&4
  echo "Guessing 50." >&4
  echo 'NSIG 50' > signal.nsg
 fi
 : Now look at all the signal names, one at a time.
 for xx in `echo $xxx | $tr ' ' $trnl | $sort | $uniq`; do
  $cat > signal.c <<EOCP
#include <sys/types.h>
#include <signal.h>
#include <stdio.h>
int main() {
printf("$xx %d\n", SIG${xx});
return 0;
}
EOCP
  set signal
  if eval $compile; then
   echo "SIG${xx} found."
   $run ./signal$_exe  >> signal.ls1
  else
   echo "SIG${xx} NOT found."
  fi
 done
 if $test -s signal.ls1; then
  $cat signal.nsg signal.ls1 |
   $sort -n | $uniq | $awk -f signal.awk >signal.lst
 fi

fi
if $test -s signal.lst; then
 :
```

```
else
 echo "(AAK! I can't compile the test programs -- Guessing)" >&4
 echo 'kill -l' >signal
 set X `csh -f <signal`
 $rm -f signal
 shift
 case $# in
 0) set HUP INT QUIT ILL TRAP ABRT
 EMT FPE KILL BUS SEGV SYS PIPE ALRM TERM;;
 esac
 echo $@ | $tr ' ' $trnl | \
     $awk '{ printf "%s %d\n", $1, ++s; }
    END { printf "NSIG %d\n", ++s }' >signal.lst
fi
$rm -f signal.c signal$_exe signal$_o signal.nsg signal.ls1
EOS
chmod a+x signal_cmd
$eunicefix signal_cmd
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Signal.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getfsstat : Inlibc
?MAKE: -pick add $@ %<
?S:d_getfsstat:
?S: This variable conditionally defines the HAS_GETFSSTAT symbol, which
?S: indicates to the C program that the getfsstat() routine is available.
?S:.
?C:HAS_GETFSSTAT:
?C: This symbol, if defined, indicates that the getfsstat routine is
?C: available to stat filesystems in bulk.
?C:.
?H:#$d_getfsstat HAS_GETFSSTAT  /**/
?H:.
?LINT:set d_getfsstat
: see if getfsstat exists
set getfsstat d_getfsstat
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_getfsstat.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_fd_set.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:33:16  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20  06:57:23  ram
?RCS: patch30: extended scope for fd_set checks (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:06:27  ram
?RCS: patch16: comments for HAS_FD_* symbols were not consistent
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_fd_set d_fd_macros d_fds_bits: cat +cc +ccflags rm Oldconfig
 \
 d_socket i_systime i_sysselct i_syssock
?MAKE: -pick add $@ %<
?S:d_fd_set:
?S: This variable contains the eventual value of the HAS_FD_SET symbol,
?S: which indicates if your C compiler knows about the fd_set typedef.
?S:.
?S:d_fd_macros:
?S: This variable contains the eventual value of the HAS_FD_MACROS symbol,
?S: which indicates if your C compiler knows about the macros which
?S: manipulate an fd_set.
?S:.
?S:d_fds_bits:
?S: This variable contains the eventual value of the HAS_FDS_BITS symbol,
?S: which indicates if your fd_set typedef contains the fds_bits member.
?S: If you have an fd_set typedef, but the dweebs who installed it did
?S: a half-fast job and neglected to provide the macros to manipulate
?S: an fd_set, HAS_FDS_BITS will let us know how to fix the gaffe.
?S:.
```

```
?C:HAS_FD_SET:
?C: This symbol, when defined, indicates presence of the fd_set typedef
?C: in <sys/types.h>
?C:.
?C:HAS_FD_MACROS:
?C: This symbol, when defined,  indicates presence of the macros used
 to
?C: manipulate an fd_set.
?C:.
?C:HAS_FDS_BITS:
?C: This symbol, when defined, indicates presence of the fds_bits member in
?C: fd_set.  This knowledge is useful if fd_set is available but the macros
?C: aren't.
?C:.
?H:#$d_fd_set HAS_FD_SET /**/
?H:#$d_fd_macros HAS_FD_MACROS /**/
?H:#$d_fds_bits HAS_FDS_BITS /**/
?H:.
?F:!fd_set
: check for fd_set items
$cat <<EOM

Checking to see how well your C compiler handles fd_set and friends ...
EOM
?X: The FD_SET macros can be in strange places.  On some SysV-based
?X: systems, they are in <sys/bsdtypes.h>, which is included (perhaps)
?X: by <sys/socket.h>.  We won't force people to include
?X: <sys/bsdtypes.h> because it might introduce other
?X: incompatibilities.
$cat >fd_set.c <<EOCP
#$i_systime I_SYS_TIME
#$i_sysselct I_SYS_SELECT
#$d_socket HAS_SOCKET
#$i_syssock I_SYS_SOCKET
#include <sys/types.h>
#ifdef HAS_SOCKET
#ifdef I_SYS_SOCKET
#include <sys/socket.h> /* Might include <sys/bsdtypes.h> */
#endif
#endif
#ifdef I_SYS_TIME
#include
 <sys/time.h>
#endif
#ifdef I_SYS_SELECT
#include <sys/select.h>
#endif
int main() {
```

```
 fd_set fds;

#ifdef TRYBITS
 if(fds.fds_bits);
#endif

#if defined(FD_SET) && defined(FD_CLR) && defined(FD_ISSET) && defined(FD_ZERO)
 exit(0);
#else
 exit(1);
#endif
}
EOCP
if $cc $ccflags -DTRYBITS -o fd_set fd_set.c >fd_set.out 2>&1 ; then
 d_fds_bits="$define"
 d_fd_set="$define"
 echo "Well, your system knows about the normal fd_set typedef..." >&4
 if ./fd_set; then
  echo "and you have the normal fd_set macros (just as I'd expect)." >&4
  d_fd_macros="$define"
 else
  $cat >&4 <<'EOM'
but not the normal fd_set macros!  Gaaack!  I'll have to cover for you.
EOM
  d_fd_macros="$undef"
 fi
else
 $cat <<'EOM'
Hmm, your compiler has some difficulty with fd_set.  Checking further...
EOM
 if $cc $ccflags -o fd_set fd_set.c >fd_set.out 2>&1 ; then
  d_fds_bits="$undef"
  d_fd_set="$define"
  echo "Well, your system has some sort of fd_set available..." >&4
  if ./fd_set; then
   echo "and you have the
 normal fd_set macros." >&4
   d_fd_macros="$define"
  else
   $cat <<'EOM'
but not the normal fd_set macros!  Gross!  More work for me...
EOM
   d_fd_macros="$undef"
  fi
 else
 echo "Well, you got zip.  That's OK, I can roll my own fd_set stuff." >&4
  d_fd_set="$undef"
  d_fds_bits="$undef"
```

```
  d_fd_macros="$undef"
 fi
fi
$rm -f fd_set*
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_fd_set.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_mkostemp: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkostemp:
?S: This variable conditionally defines HAS_MKOSTEMP if mkostemp() is
?S: available to exclusively create and open a uniquely named (with a
?S: suffix) temporary file.
?S:.
?C:HAS_MKOSTEMP:
?C: This symbol, if defined, indicates that the mkostemp routine is
?C: available to exclusively create and open a uniquely named (with a
?C: suffix) temporary file.
?C:.
?H:#$d_mkostemp HAS_MKOSTEMP /**/
?H:.
?LINT:set d_mkostemp
: see if mkostemp exists
set mkostemp d_mkostemp
eval $inlibc
```

Found
 in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_mkostemp.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Finish.U,v $
?RCS: Revision 3.0.1.6  1995/02/15  14:09:30  ram
?RCS: patch51: now clearer about how to edit config.sh at the prompt (WED)
?RCS:
?RCS: Revision 3.0.1.5  1994/10/29  15:53:14  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.4  1994/05/06  14:19:37  ram
?RCS: patch23: added blank lines around 'End of Configure'
?RCS:
?RCS: Revision 3.0.1.3  1993/10/16  13:46:09  ram
?RCS: patch12: replaced Config_h by Magic_h in the dependency line
?RCS:
?RCS:
 Revision 3.0.1.2  1993/09/13  15:45:26  ram
?RCS: patch10: fixed shell evaluation w/o shell escape while in silent mode
?RCS:
?RCS: Revision 3.0.1.1  1993/08/30  08:55:59  ram
?RCS: patch8: prevents myread from blocking on empty answers, exceptionally
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit is the very last one in the Configure script.  It runs all the
?X: SH files, which among other things produce config.h and (usually) Makefile.
?X: It offers to do a make depend if the Makefile contains that target.
?X:
?MAKE:Finish: Chk_MANI Extract Myread Oldsym Magic_h cat rm contains \
 test package make
?MAKE: -pick add $@ %<
?F:!config.sh
?T:pwd
: Finish up by extracting the .SH files
case "$alldone" in
exit)
?X: They supplied the -E switch
 echo "Stopping at your request, leaving temporary files around."
 exit 0
 ;;
cont)
 ;;
")
```

```
 dflt=''
 nostick=true
 $cat <<EOM

If you'd like to make any changes to the config.sh
 file before I begin
to configure things, do it as a shell escape now (e.g. !vi config.sh).

EOM
 rp="Press return or use a shell escape to edit config.sh:"
 . UU/myread
 nostick=''
 case "$ans" in
 '') ;;
 *) : in case they cannot read
  sh 1>&4 -c "$ans";;
 esac
 ;;
esac

: if this fails, just run all the .SH files by hand
. ./config.sh

?X:
?X: Turn silent mode off from now on (we want a verbose file extraction).
?X: This means we have to explicitly test for '$silent' from now on to
?X: strip off any verbose messages.
?X:
echo " "
exec 1>&4
pwd=`pwd`
. ./UU/extract
cd "$pwd"

if $contains '^depend:' [Mm]akefile >/dev/null 2>&1; then
 dflt=y
 case "$silent" in
 true) ;;
 *)
  $cat <<EOM

Now you need to generate make dependencies by running "$make depend".
You might prefer to run it in background: "$make depend > makedepend.out &"
It can take a while, so you might not want to run it right now.

EOM
  ;;
 esac
```

```
 rp="Run $make depend now?"
 . UU/myread
 case "$ans" in
 y*)
  $make depend
 && echo "Now you must run '$make'."
  ;;
 *)
  echo "You must run '$make depend' then '$make'."
  ;;
 esac
elif test -f [Mm]akefile; then
 echo " "
 echo "Now you must run a $make."
else
 echo "Configure done."
fi

if $test -f Policy.sh; then
   $cat <<EOM

If you compile $package on a different machine or from a different object
directory, copy the Policy.sh file from this object directory to the
new one before you run Configure -- this will help you with most of
the policy defaults.

EOM
fi
if $test -f UU/config.msg; then
   echo "Hmm.  I also noted the following information while running:"
   echo " "
   $cat UU/config.msg >&4
fi
?X:
?X: kit*isdone files are left over by shell archives built using the makedist
?X: script which comes from dist, while ark*isdone files are left over by
?X: the cshar archive maker.
?X:
$rm -f kit*isdone ark*isdone
$rm -rf UU

: End of Configure
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Finish.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ckeypad.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_ckeypad.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_ckeypad: cat cc termlib Setvar
?MAKE: -pick add $@ %<
?S:d_ckeypad:
?S: This variable controls the definition of HAS_CURSES_KEYPAD,
?S: which tells the application that the keypad() curses function
?S: is available.
?S:.
?C:HAS_CURSES_KEYPAD:
?C: This symbol indicates the availability of the keypad() function
?C: of the curses library.
?C:.
?H:#$d_ckeypad
 HAS_CURSES_KEYPAD /**/
?H:.
?LINT:set d_ckeypad
: check for the "keypad()" function in the curses library
echo " "
case "$termlib" in
")
 echo "You don't have a curses library, so I won't waste time looking" >&4
 echo "to see if has the keypad() function." >&4
*)
echo "Checking the curses library ($termlib) for the keypad() function..." >&4
 $cat >c_keypad.c <<'EOCP'
#include <curses.h>
int main() {
 keypad(stdscr, TRUE);
 exit(0);
}
EOCP
 if $cc c_keypad.c >c_keypad.out 2>&1 ; then
  val=$define
  echo "It appears to have the keypad() function."
 else
```

```
  val=$undef
  echo "Your curses library doesn't appear to have the keypad() function."
 fi
esac
set d_ckeypad
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_ckeypad.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ctermid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_ctermid.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_ctermid: Inlibc
?MAKE: -pick add $@ %<
?S:d_ctermid:
?S: This variable conditionally defines CTERMID if ctermid() is
?S: available to generate filename for terminal.
?S:.
?C:HAS_CTERMID (CTERMID):
?C: This symbol, if defined, indicates that the ctermid routine is
?C: available to generate filename for terminal.
?C:.
?H:#$d_ctermid
 HAS_CTERMID  /**/
?H:.
?LINT:set d_ctermid
: see if ctermid exists
set ctermid d_ctermid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_ctermid.U

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```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_trunc: Inlibc
?MAKE: -pick add $@ %<
?S:d_trunc:
?S: This variable conditionally defines the HAS_TRUNC symbol, which
?S: indicates to the C program that the trunc() routine is available
?S: to round doubles towards zero.
?S:.
?C:HAS_TRUNC:
?C: This symbol, if defined, indicates that the trunc routine is
?C: available to round doubles towards zero.
?C:.
?H:#$d_trunc HAS_TRUNC  /**/
?H:.
?LINT:set d_trunc
: see if trunc exists
set trunc d_trunc
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_trunc.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:ilp d_ilp32 d_ilp64 d_lp64 d_can64: Assert Myread Setvar \
 cat rm +cc +ccflags echo n c intsize longsize ptrsize
?MAKE: -pick add $@ %<
?S:ilp:
?S: This variable contains the largest amount of bits that the CPU supports,
?S: from the compiler's point of view.  Typically 32 or 64.
?S:.
?S:d_ilp32:
?S: This variable conditionally defines the CPU_IS_ILP32.
?S:.
?S:d_ilp64:
```

```
?S: This variable conditionally defines the CPU_IS_ILP64.
?S:.
?S:d_lp64:
?S: This variable conditionally defines the CPU_IS_LP64.
?S:.
?S:d_can64:
?S: This variable
 conditionally defines CAN_HANDLE_64BITS.
?S:.
?C:CPU_ILP_MAXBITS:
?C: This symbol contains the largest amount of bits that the CPU natively
?C: supports from the compiler's point of view.  Typically 32 or 64.
?C:.
?C:CPU_IS_ILP32:
?C: When defined, this indicates that the integer, long and pointer variables
?C: hold 32-bit values.
?C:.
?C:CPU_IS_ILP64:
?C: When defined, this indicates that the integer, long and pointer variables
?C: hold 64-bit values.
?C:.
?C:CPU_IS_LP64:
?C: When defined, this indicates that the long and pointer variables hold
?C: 64-bit values but integers are smaller (probably only 32-bit wide).
?C:.
?C:CAN_HANDLE_64BITS:
?C: When defined, this indicates that the compiler can handle 64-bit values
?C: despite the CPU having only 32-bit registers.  These are available using
?C: the "long long" C type.  It is only defined for ILP32 machines, since
?C: 64-bit support is naturally available on ILP64 and LP64 machines.
?C:.
?H:#define CPU_ILP_MAXBITS $ilp
?H:#$d_ilp32
 CPU_IS_ILP32 /**/
?H:#$d_ilp64 CPU_IS_ILP64 /**/
?H:#$d_lp64 CPU_IS_LP64  /**/
?H:#$d_can64 CAN_HANDLE_64BITS /**/
?H:.
?LINT: set d_ilp32 d_ilp64 d_lp64 d_can64
: check for architecture type
echo " "
$echo $n "Computing CPU architecture type...$c" >&4
ilp=`expr $longsize \* 8`
case "$ptrsize" in
8)
 val=$undef; set d_ilp32; eval $setvar
 case "$intsize" in
 8)
```

```
  echo " ILP64." >&4
  val=$define; set d_ilp64; eval $setvar
  val=$undef; set d_lp64; eval $setvar
  ;;
 *)
  echo " LP64." >&4
  val=$define; set d_lp64; eval $setvar
  val=$undef; set d_ilp64; eval $setvar
  ;;
 esac
 ;;
*)
 echo " ILP${ilp}." >&4
 case "$ilp" in
 32) val=$define;;
 *) val=$undef;;
 esac
 set d_ilp32; eval $setvar
 val=$undef; set d_ilp64; eval $setvar
 val=$undef; set d_lp64; eval $setvar
 ;;
esac

@if CAN_HANDLE_64BITS || d_can64
: see whether compiler supports 64-bit emulation
val=$undef
case "$ilp" in
64) val=$define;;
*)
 $cat >try.c <<EOCP
#include "static_assert.h"
long long foo;
int main()
{
 STATIC_ASSERT(8
 == sizeof(foo));
 return 0;
}
EOCP
 if $cc -c $ccflags try.c >/dev/null 2>&1; then
  echo " "
  echo "Your compiler also supports 64-bit emulation." >&4
  val=$define
 fi
 $rm -f try.*
 ;;
esac
set d_can64
```

```
eval $setvar

@end
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/ilp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2014, H.Merijn Brand
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_dladdr.U,v $
?RCS:
?MAKE:d_dladdr: Inlibc
?MAKE: -pick add $@ %<
?S:d_dladdr:
?S: This variable conditionally defines the HAS_DLADDR symbol, which
?S: indicates to the C program that the dladdr() routine is available
?S: to get a stack trace.
?S:.
?C:HAS_DLADDR:
?C: This symbol, if defined, indicates that the dladdr() routine is
?C: available to query dynamic linker information for an address.
?C: The <dlfcn.h> header must be included to use this routine.
?C:.
?H:#$d_dladdr HAS_DLADDR /**/
?H:.
?LINT:set d_dladdr
:
 see if dladdr exists
set dladdr d_dladdr
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_dladdr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysdir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysdir.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:22:30  ram
?RCS: patch32: fixed typo in I_SYS_DIR symbol name
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:30  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_sysdir: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysdir:
?S: This variable conditionally defines the I_SYS_DIR symbol, and indicates
?S: whether a C program should include <sys/dir.h>.
?S:.
?C:I_SYS_DIR (I_SYSDIR):
?C: This symbol, if
 defined, indicates to the C program that it should
?C: include <sys/dir.h>.
?C:.
?H:#$i_sysdir I_SYS_DIR  /**/
?H:.
?LINT:set i_sysdir
: see if this is an sysdir system
set sys/dir.h i_sysdir
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sysdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_access.U,v 3.0 1993/08/18 12:05:42 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
```

```
?RCS: $Log: d_access.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_access: test +cc cat +cppflags h_fcntl h_sysfile i_stdlib rm Inlibc Findhdr
?MAKE: -pick add $@ %<
?S:d_access:
?S: This variable conditionally defines HAS_ACCESS if the access() system
?S: call is available to check for access permissions using real IDs.
?S:.
?C:HAS_ACCESS:
?C: This manifest constant lets the C program know that the access()
?C: system
 call is available to check for accessibility using real UID/GID.
?C: (always present on UNIX.)
?C:.
?H:#$d_access HAS_ACCESS  /**/
?H:.
?W:%<:R_OK W_OK X_OK F_OK
?LINT:set d_access
?LINT:change h_fcntl h_sysfile
: access call always available on UNIX
set access d_access
eval $inlibc

: locate the flags for 'access()'
case "$d_access" in
"$define")
 echo " "
 $cat >access.c <<EOCP
#include <sys/types.h>
#ifdef I_FCNTL
#include <fcntl.h>
#endif
#ifdef I_SYS_FILE
#include <sys/file.h>
#endif
#ifdef I_UNISTD
#include <unistd.h>
#endif
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() {
 exit(R_OK);
}
EOCP
```

```
 : check sys/file.h first, no particular reason here
 if $test `./findhdr sys/file.h` && \
  $cc -o access $cppflags -DI_SYS_FILE access.c >/dev/null 2>&1 ; then
  h_sysfile=true;
  echo "<sys/file.h> defines the *_OK access constants." >&4
 elif $test `./findhdr fcntl.h` && \
  $cc -o access $cppflags -DI_FCNTL access.c >/dev/null 2>&1 ; then
  h_fcntl=true;
  echo
 "<fcntl.h> defines the *_OK access constants." >&4
@if I_UNISTD
 elif $test `./findhdr unistd.h` && \
  $cc -o access $cppflags -DI_UNISTD access.c >/dev/null 2>&1 ; then
  echo "<unistd.h> defines the *_OK access constants." >&4
@end
 else
  echo "I can't find the four *_OK access constants--I'll use mine." >&4
 fi
 ;;
esac
$rm -f access*
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_access.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:uselongdouble: Myread Oldconfig Setvar cat test usemorebits
?MAKE: -pick add $@ %<
?Y:TOP
?S:uselongdouble:
?S: This variable conditionally defines the USE_LONG_DOUBLE symbol,
?S: and indicates that long doubles should be used when available.
?S:.
?C:USE_LONG_DOUBLE:
?C: This symbol, if defined, indicates that long doubles should
?C: be used when available.
?C:.
?H:?%<:#ifndef USE_LONG_DOUBLE
?H:?%<:#$uselongdouble USE_LONG_DOUBLE  /**/
?H:?%<:#endif
```

```
?H:.
?LINT:extern ccflags
?LINT:use usemorebits
?F:!uselongdouble.cbu
: Check for uselongdouble support
case "$ccflags" in
*-DUSE_LONG_DOUBLE*|*-DUSE_MORE_BITS*) uselongdouble="$define" ;;
esac

case "$uselongdouble" in
$define|true|[yY]*) dflt='y';;
*)
 dflt='n';;
esac
cat <<EOM

Perl can be built to take advantage of long doubles which
(if available) may give more accuracy and range for floating point numbers.

If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp='Try to use long doubles if available?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*)      val="$undef" ;;
esac
set uselongdouble
eval $setvar

case "$uselongdouble" in
true|[yY]*) uselongdouble="$define" ;;
esac

: Look for a hint-file generated 'call-back-unit'.  If the
: user has specified that long doubles should be used,
: we may need to set or change some other defaults.
if $test -f uselongdouble.cbu; then
   echo "Your platform has some specific hints regarding long doubles, using them..."
   . ./uselongdouble.cbu
else
   case "$uselongdouble" in
 $define)
  $cat <<EOM
(Your platform does not have any specific hints for long doubles.)
EOM
 ;;
   esac
```

```
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/uselongdbl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: usecbacktrace.U,v $
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: usecbacktrace.U,v $
?RCS:
?MAKE:usecbacktrace: Myread Oldconfig Setvar Getfile d_backtrace
?MAKE: -pick add $@ %<
?Y:TOP
?S:usecbacktrace:
?S: This variable indicates whether we are compiling with backtrace
?S: support.
?S:.
?C:USE_C_BACKTRACE:
?C: This symbol, if defined, indicates that Perl should
?C: be built with support for backtrace.
?C:.
?H:#$usecbacktrace USE_C_BACKTRACE  /**/
?H:.
: Check if C backtrace is actually supported.
case "$usecbacktrace" in
 "") usecbacktrace=$undef ;;
 [yY]*|true|$define)
   case "$d_backtrace" in
     [yY]*|true|$define)
       ;;
     *)
       echo "This system does not support backtrace" >&4
       usecbacktrace=$undef

  ;;
     esac
   ;;
 esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/usebacktrace.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_getspnam: Inlibc
?MAKE: -pick add $@ %<
?S:d_getspnam:
?S: This variable conditionally defines HAS_GETSPNAM if getspnam() is
?S: available to retrieve SysV shadow password entries by name.
?S:.
?C:HAS_GETSPNAM:
?C: This symbol, if defined, indicates that the getspnam system call is
?C: available to retrieve SysV shadow password entries by name.
?C:.
?H:#$d_getspnam HAS_GETSPNAM  /**/
?H:.
?LINT:set d_getspnam
: see if getspnam exists
set getspnam d_getspnam
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_getspnam.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_static_inline.U,v $
?RCS:
?RCS: Copyright (c) 2010 Andrew Dougherty
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafayette.edu>
?RCS:
?MAKE:d_static_inline perl_static_inline: Compile Setvar gccversion \
 cat echo run hint rm rm_try
```

```
?MAKE: -pick add $@ %<
?S:d_static_inline:
?S: This variable conditionally defines the HAS_STATIC_INLINE symbol,
?S: which indicates that the C compiler supports C99-style static
?S: inline.  That is, the function can't be called from another
?S: translation unit.
?S:.
?S:perl_static_inline:
?S: This variable defines the PERL_STATIC_INLINE
 symbol to
?S: the best-guess incantation to use for static inline functions.
?S: Possibilities include
?S:  static inline       (c99)
?S:  static __inline__   (gcc -ansi)
?S:  static __inline     (MSVC)
?S:  static _inline      (older MSVC)
?S:  static              (c89 compilers)
?S:.
?C:HAS_STATIC_INLINE :
?C: This symbol, if defined, indicates that the C compiler supports
?C: C99-style static inline.  That is, the function can't be called
?C: from another translation unit.
?C:.
?C:PERL_STATIC_INLINE:
?C: This symbol gives the best-guess incantation to use for static
?C: inline functions.  If HAS_STATIC_INLINE is defined, this will
?C: give C99-style inline.  If HAS_STATIC_INLINE is not defined,
?C: this will give a plain 'static'.  It will always be defined
?C: to something that gives static linkage.
?C: Possibilities include
?C:  static inline       (c99)
?C:  static __inline__   (gcc -ansi)
?C:  static __inline     (MSVC)
?C:  static _inline      (older MSVC)
?C:  static
        (c89 compilers)
?C:.
?H:#$d_static_inline HAS_STATIC_INLINE    /**/
?H:#define PERL_STATIC_INLINE $perl_static_inline /**/
?H:.
?LINT:set d_static_inline
?T:inline xxx
?F:!try
: see what flavor, if any, of static inline is supported
echo " "
echo "Checking to see if your system supports static inline..."
?X: Build two programs.  The first uses static inline in file a.c and
?X: should work.  The second also includes b.c which tries to link against
```

```
?X: the static function in a.c.  This should fail.
?X:.
$cat > try.c <<'EOCP'
#include <stdlib.h>
extern int f_via_a(int x);
extern int f_via_b(int x);
int main(int argc, char **argv)
{
   int y;

   y = f_via_a(0);
#ifdef USE_B
   y = f_via_b(0);
#endif
   if (y == 42) {
       return EXIT_SUCCESS;
   }
   else {
       return EXIT_FAILURE;
   }
}
EOCP
$cat > a.c <<'EOCP'
static INLINE int f(int x) {
   int y;
   y = x + 42;
   return y;
}

int f_via_a(int x)
{
   return f(x);
}
EOCP
$cat > b.c <<'EOCP'
extern int f(int x);

int
 f_via_b(int x)
{
   return f(x);
}
EOCP

# Respect a hint (or previous) value for perl_static_inline, if there is one.
case "$perl_static_inline" in
") # Check the various possibilities, and break out on success.
 # For gcc, prefer __inline__, which will still permit
```

```
 # cflags.SH to add in -ansi.
 case "$gccversion" in
  ") xxx="inline __inline__ __inline _inline";;
  *)  xxx="__inline__ inline __inline _inline";;
 esac
 for inline in $xxx; do
  set try -DINLINE=$inline a.c
  if eval $compile && $run ./try; then
   # Now make sure there is no external linkage of static
   # functions
   set try -DINLINE=$inline -DUSE_B a.c b.c
   if eval $compile && $run ./try; then
    $echo "Your compiler supports static $inline, " >&4
    $echo "but it also creates an external definition," >&4
    $echo "so I won't use it." >&4
    val=$undef
   else
    $echo "Your compiler supports static $inline." >&4
    val=$define
    perl_static_inline="static $inline";
    break;
   fi
  else
   $echo
 "Your compiler does NOT support static $inline." >&4
   val="$undef"
  fi
 done
 ;;
*inline*) # Some variant of inline exists.
 echo "Keeping your $hint value of $perl_static_inline."
 val=$define
 ;;
static)  # No inline capabilities
 echo "Keeping your $hint value of $perl_static_inline."
 val=$undef
 ;;
*)  # Unrecognized previous value -- blindly trust the supplied
 # value and hope it makes sense.  Use old value for
 # d_static_inline, if there is one.
 echo "Keeping your $hint value of $perl_static_inline."
 case "$d_static_inline" in
  ") val=$define ;;
  *)  val=$d_static_inline ;;
 esac
 ;;
esac
# Fallback to plain 'static' if nothing worked.
```

```
case "$perl_static_inline" in
")
 perl_static_inline="static"
 val=$undef
 ;;
esac
set d_static_inline
eval $setvar
$rm -f a.[co] b.[co]
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_static_inline.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_readlink.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_readlink.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:11:52  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_readlink: Inlibc
?MAKE: -pick add $@ %<
?S:d_readlink:
?S: This variable conditionally defines the HAS_READLINK symbol, which
?S: indicates to the C program that the readlink() routine is available
?S: to read the value of a symbolic link.
?S:.
?C:HAS_READLINK :
?C: This
 symbol, if defined, indicates that the readlink routine is
?C: available to read the value of a symbolic link.
?C:.
?H:#$d_readlink HAS_READLINK  /**/
?H:.
?LINT:set d_readlink
: see if readlink exists
```

```
set readlink d_readlink
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_readlink.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_syssock.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_syssock.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:36  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_syssock: Inhdr
?MAKE: -pick add $@ %<
?S:i_syssock:
?S: This variable conditionally defines the I_SYS_SOCKET symbol, and indicates
?S: whether a C program should include <sys/socket.h> before performing socket
?S: operations.
?S:.
?C:I_SYS_SOCKET:
?C: This symbol, if defined, indicates to the C program that it should
?C: include
 <sys/socket.h> before performing socket calls.
?C:.
?H:#$i_syssock I_SYS_SOCKET  /**/
?H:.
?LINT:set i_syssock
: see if this is a sys/socket.h system
set sys/socket.h i_syssock
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_syssock.U
No license file was found, but licenses were detected in source scan.

```
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```

```
?RCS:
?MAKE:i_stdint: Inhdr
?MAKE: -pick add $@ %<
?S:i_stdint:
?S: This variable conditionally defines the I_STDINT symbol, which
?S: indicates to the C program that <stdint.h> exists and should
?S: be included.
?S:.
?C:I_STDINT:
?C: This symbol, if defined, indicates that <stdint.h> exists and
?C: should be included.
?C:.
?H:#$i_stdint I_STDINT  /**/
?H:.
?LINT:set i_stdint
: see if stdint is available
set stdint.h i_stdint
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_stdint.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: getopt.C,v 3.0.1.1 1994/01/24 13:58:40 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* Original Author: unknown, got this off net.sources
*
* $Log: getopt.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:40  ram
* patch16: created
*
*/
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/lib/C/fake/getopt.C
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: charsize.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:07:13  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:34  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:charsize: Assert Myread cat rm_try +cc +ccflags echo n c
?MAKE: -pick add $@ %<
?S:charsize:
?S: This variable contains the value of the CHARSIZE symbol, which
?S: indicates to the C program how many bytes there are in a character.
?S:.
?C:CHARSIZE:
?C: This symbol contains
 the size of a char, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define CHARSIZE $charsize
?H:.
?T:size s
: check for length of character
echo " "
$echo $n "Checking to see how big your characters are...$c" >&4
for size in 1 2 4 8 error; do
 $cat >try.c <<EOCP
#include "static_assert.h"
char foo;
int main()
{
 STATIC_ASSERT($size == sizeof(foo));
 return 0;
}
EOCP
 if $cc -c $ccflags try.c >/dev/null 2>&1; then break; fi
done
case "$size" in
error)
```

```
 echo " cannot compute it." >&4
 dflt=1
 rp="What is the size of a character (in bytes)?"
 . ./myread
 charsize="$ans"
 ;;
*)
 case "$size" in
 1) s='';;
 *) s='s';;
 esac
 echo " $size byte$s." >&4
 charsize=$size
 ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/charsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_cbrt.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_cbrt.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_cbrt: Inlibc
?MAKE: -pick add $@ %<
?S:d_cbrt:
?S: This variable conditionally defines the HAS_CBRT symbol, which
?S: indicates to the C program that the cbrt() (cube root) function
?S: is available.
?S:.
?C:HAS_CBRT (CBRT):
?C: This symbol, if defined, indicates that the cbrt() (cube root)
?C: function is available.
?C:.
?H:#$d_cbrt HAS_CBRT /**/
```

```
?H:.
?LINT:set
 d_cbrt
: see if cbrt exists
set cbrt d_cbrt
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_cbrt.U
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```
?RCS: $Id$
?RCS:
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: so.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:30:04  ram
?RCS: patch36: now tells user how he can suppress shared lib lookup (ADO)
?RCS: patch36: removed echo at the top, since it's now in the here-doc (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:07:02  ram
?RCS: patch30: created
?RCS:
?X:
?X: This unit computes the shared-object / shared-lib extension
?X:
?MAKE:so: test libpth Loc Myread Oldconfig cat
?MAKE: -pick add $@ %<
?S:so:
?S: This variable holds the extension used to identify
 shared libraries
?S: (also known as shared objects) on the system. Usually set to 'so'.
?S:.
?T: xxx
: compute shared library extension
case "$so" in
")
 if xxx=`./loc libc.sl X $libpth`; $test -f "$xxx"; then
  dflt='sl'
 else
  dflt='so'
```

```
 fi
 ;;
*) dflt="$so";;
esac
$cat <<EOM

On some systems, shared libraries may be available.  Answer 'none' if
you want to suppress searching of shared libraries for the remainder
of this configuration.

EOM
rp='What is the file extension used for shared libraries?'
. ./myread
so="$ans"
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/so.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2016 Dagfinn Ilmari Mannsker & H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X:
?X: This unit produces a variable that is intended to be eval'ed in
?X: order to define/undefine a symbol. A consistency check is made
?X: regarding any previous value and a warning is issued if there
?X: is any discrepancy.
?X:
?X: To use it, say:
?X: set d_siginfo_si_errno siginfo_t int si_errno $d_sigaction signal.h
?X: eval $hasfield_t;
?X:
?MAKE:Hasfield_t: test Compile rm_try Setvar
?MAKE: -pick add $@ %<
?LINT:define hasfield_t
?S:hasfield_t:
?S: Internal macro for Configure
?S:.
?V:hasfield_t:
?T:varname struct type field
: Define hasfield_t macro for Configure internal use
hasfield_t='varname=$1; struct=$2; type=$3; field=$4; shift; shift; shift; shift;
while $test $# -ge 2; do
   case
```

```
 "$1" in
 $define) echo "#include <$2>";;
   esac ;
   shift 2;
done > try.c;
echo "int main () { $struct foo; $type bar = foo.$field; }" >> try.c;
set try;
if eval $compile; then
 val="$define";
else
 val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try'
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/Hasfield_t.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strxfrm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_strxfrm.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:12:04  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_strxfrm: Inlibc
?MAKE: -pick add $@ %<
?S:d_strxfrm:
?S: This variable conditionally defines HAS_STRXFRM if strxfrm() is
?S: available to transform strings.
?S:.
?C:HAS_STRXFRM:
?C: This symbol, if defined, indicates that the strxfrm() routine is
?C: available to transform
 strings.
?C:.
```

```
?H:#$d_strxfrm HAS_STRXFRM /**/
?H:.
?LINT:set d_strxfrm
: see if strxfrm exists
set strxfrm d_strxfrm
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strxfrm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: mailfile.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: mailfile.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:24:57  ram
?RCS: patch36: the Loc unit was missing from the dependency line
?RCS:
?RCS: Revision 3.0.1.1  1993/12/15  08:22:08  ram
?RCS: patch15: now also looks under /var/mail for BSD/386
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:11  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:mailfile: Myread Oldconfig Filexp Loc
?MAKE: -pick add $@ %<
?S:mailfile:
?S: This variable contains
 the eventual value of the MAILFILE symbol,
?S: which contains an interpretable name of the mail spool file for the
?S: current user.
?S:.
?C:MAILFILE:
?C: This symbol contains the interpretable name of the mail spool file
?C: for the current user.  The program must be prepared to substitute
?C: the HOME directory for %~, and the login id for %L.
?C:.
?H:#define MAILFILE "$mailfile"  /**/
?H:.
: determine where mail is spooled
```

```
case "$mailfile" in
")
 dflt=`./loc . XXX /usr/spool/mail /usr/mail /var/mail`
 case "$dflt" in
 XXX) dflt='%~/mailbox';;
 *) dflt="$dflt/%L";;
 esac
 ;;
*)  dflt="$mailfile"
 ;;
esac
cat <<'EOM'

In the following question, you may use %~ to represent the user's home
directory, and %L to represent a users name.

EOM
rp='In which file is yet-to-be-read mail spooled? (~name ok)'
. ./myread
mailfile=`./filexp "$ans"`

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/mailfile.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strtoul.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:46:43  ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_strtoul: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtoul:
?S: This variable conditionally defines the HAS_STRTOUL symbol, which
?S: indicates to the C program that the strtoul() routine is available
?S: to provide conversion of strings to unsigned long.
```

```
?S:.
?C:HAS_STRTOUL (STRTOUL):
?C: This symbol, if defined, indicates that the strtoul routine is
?C: available
 to provide conversion of strings to unsigned long.
?C:.
?H:#$d_strtoul HAS_STRTOUL /**/
?H:.
?LINT:set d_strtoul
: see if strtoul exists
set strtoul d_strtoul
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strtoul.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getprotoprotos.U,v $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_getprotoprotos : Hasproto i_netdb
?MAKE: -pick add $@ %<
?S:d_getprotoprotos:
?S: This variable conditionally defines the HAS_GETPROTO_PROTOS symbol,
?S: which indicates to the C program that <netdb.h> supplies
?S: prototypes for the various getproto*() functions.
?S: See also netdbtype.U for probing for various netdb types.
?S:.
?C:HAS_GETPROTO_PROTOS:
?C: This symbol, if defined, indicates that <netdb.h> includes
?C: prototypes for getprotoent(), getprotobyname(), and
?C: getprotobyaddr().
  Otherwise, it is up to the program to guess
?C: them.  See netdbtype.U for probing for various Netdb_xxx_t types.
?C:.
?H:#$d_getprotoprotos HAS_GETPROTO_PROTOS /**/
?H:.
?LINT:set d_getprotoprotos
: see if prototypes for various getprotoxxx netdb.h functions are available
echo " "
```

```
set d_getprotoprotos getprotoent $i_netdb netdb.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/d_getprotoprotos.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: cppstdin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cppstdin.U,v $
?RCS: Revision 3.0.1.4  1994/10/29  16:08:34  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.3  1994/01/24  14:05:38  ram
?RCS: patch16: comment for CPPLAST was missing
?RCS:
?RCS: Revision 3.0.1.2  1993/12/15  08:18:58  ram
?RCS: patch15: new variables cpprun and cpplast, guaranteed wrapper-free
?RCS: patch15: cppstdin now tries to use cc, even at the cost of a wrapper
?RCS:
?RCS: Revision 3.0.1.1
  1993/08/25  14:00:53  ram
?RCS: patch6: remove wrapper when not actually used
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:38  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:cppstdin cppminus cpprun cpplast: contains test \
 Myread Oldconfig Loc cpp +cc rm hint osname gccversion
?MAKE: -pick add $@ %<
?S:cppstdin:
?S: This variable contains the command which will invoke the C
?S: preprocessor on standard input and put the output to stdout.
?S: It is primarily used by other Configure units that ask about
?S: preprocessor symbols.
?S:.
?S:cppminus:
?S: This variable contains the second part of the string which will invoke
?S: the C preprocessor on the standard input and produce to standard
```

```
?S: output.  This variable will have the value "-" if cppstdin needs
?S: a minus to specify standard input, otherwise the value is "".
?S:.
?S:cpprun:
?S: This variable contains the command which will invoke a C preprocessor
?S: on standard input and put the output to stdout. It is guaranteed
 not
?S: to be a wrapper and may be a null string if no preprocessor can be
?S: made directly available. This preprocessor might be different from the
?S: one used by the C compiler. Don't forget to append cpplast after the
?S: preprocessor options.
?S:.
?S:cpplast:
?S: This variable has the same functionality as cppminus, only it applies
?S: to cpprun and not cppstdin.
?S:.
?C:CPPSTDIN:
?C: This symbol contains the first part of the string which will invoke
?C: the C preprocessor on the standard input and produce to standard
?C: output.  Typical value of "cc -E" or "/lib/cpp", but it can also
?C: call a wrapper. See CPPRUN.
?C:.
?C:CPPMINUS:
?C: This symbol contains the second part of the string which will invoke
?C: the C preprocessor on the standard input and produce to standard
?C: output.  This symbol will have the value "-" if CPPSTDIN needs a minus
?C: to specify standard input, otherwise the value is "".
?C:.
?C:CPPRUN:
?C: This symbol contains the string which will invoke
 a C preprocessor on
?C: the standard input and produce to standard output. It needs to end
?C: with CPPLAST, after all other preprocessor flags have been specified.
?C: The main difference with CPPSTDIN is that this program will never be a
?C: pointer to a shell wrapper, i.e. it will be empty if no preprocessor is
?C: available directly to the user. Note that it may well be different from
?C: the preprocessor used to compile the C program.
?C:.
?C:CPPLAST:
?C: This symbol is intended to be used along with CPPRUN in the same manner
?C: symbol CPPMINUS is used with CPPSTDIN. It contains either "-" or "".
?C:.
?H:#define CPPSTDIN "$cppstdin"
?H:#define CPPMINUS "$cppminus"
?H:#define CPPRUN "$cpprun"
?H:#define CPPLAST "$cpplast"
?H:.
?F:cppstdin !testcpp.out !testcpp.c
```

```
?T:wrapper x_cpp x_minus ok
?LINT:extern cppflags
: see how we invoke the C preprocessor
echo " "
echo "Now, how can we feed standard input to your C preprocessor..." >&4
cat <<'EOT' >testcpp.c
#define ABC abc
#define
 XYZ xyz
ABC.XYZ
EOT
cd ..
if test ! -f cppstdin; then
 if test "X$osname" = "Xaix" -a "X$gccversion" = X; then
  # AIX cc -E doesn't show the absolute headerfile
  # locations but we'll cheat by using the -M flag.
  echo 'cat >.$$.c; rm -f .$$.u; "'"$cc"' ${1+"$@"} -M -c .$$.c 2>/dev/null; test -s .$$.u && awk "'"'"$2 ~ /\.h$/ { print
"# 0 \"'"$2"'\"" }"'"' .$$.u; rm -f .$$.o .$$.u; "'"$cc"' -E ${1+"$@"} .$$.c; rm .$$.c' > cppstdin
 else
  echo 'cat >.$$.c; "'"$cc $cppflags"' -E ${1+"$@"} .$$.c; rm .$$.c' >cppstdin
 fi
else
 echo "Keeping your $hint cppstdin wrapper."
fi
chmod 755 cppstdin
wrapper=`pwd`/cppstdin
ok='false'
cd UU

?X:
?X: We'll run the cpp tests again if we don't have any valid C preprocessor
?X: yet or don't know how to proceed without a wrapper (in which case cpprun
?X: is empty and that's really annoying...)
?X:
if $test "X$cppstdin" != "X" && \
 $cppstdin $cppminus <testcpp.c >testcpp.out 2>&1 && \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1
then
 echo "You used
 to use $cppstdin $cppminus so we'll use that again."
 case "$cpprun" in
 ") echo "But let's see if we can live without a wrapper..." ;;
 *)
  if $cpprun $cpplast <testcpp.c >testcpp.out 2>&1 && \
   $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1
  then
   echo "(And we'll use $cpprun $cpplast to preprocess directly.)"
   ok='true'
```

```
  else
   echo "(However, $cpprun $cpplast does not work, let's see...)"
  fi
  ;;
 esac
else
 case "$cppstdin" in
 ") ;;
 *)
  echo "Good old $cppstdin $cppminus does not seem to be of any help..."
  ;;
 esac
fi

if $ok; then
 : nothing
elif echo 'Maybe """$cc"' -E" will work...'; \
 $cc -E <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Yup, it does."
 x_cpp="$cc $cppflags -E"
 x_minus="";
elif echo 'Nope...maybe """$cc"' -E -" will work...'; \
 $cc -E - <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Yup, it does."
 x_cpp="$cc $cppflags -E"
 x_minus='-';
elif
 echo 'Nope...maybe """$cc"' -P" will work...'; \
 $cc -P <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Yipee, that works!"
 x_cpp="$cc $cppflags -P"
 x_minus="";
elif echo 'Nope...maybe """$cc"' -P -" will work...'; \
 $cc -P - <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "At long last!"
 x_cpp="$cc $cppflags -P"
 x_minus='-';
elif echo 'No such luck, maybe "'$cpp"' will work...'; \
 $cpp <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "It works!"
 x_cpp="$cpp $cppflags"
 x_minus="";
elif echo 'Nixed again...maybe "'$cpp' -" will work...'; \
```

```
 $cpp - <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Hooray, it works!  I was beginning to wonder."
 x_cpp="$cpp $cppflags"
 x_minus='-';
elif echo 'Uh-uh.  Time to get fancy.  Trying a wrapper...'; \
 $wrapper <testcpp.c >testcpp.out 2>&1; \
 $contains
 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 x_cpp="$wrapper"
 x_minus=''
 echo "Eureka!"
else
 dflt=''
 rp="No dice.  I can't find a C preprocessor.  Name one:"
 . ./myread
 x_cpp="$ans"
 x_minus=''
 $x_cpp <testcpp.c >testcpp.out 2>&1
 if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
  echo "OK, that will do." >&4
 else
echo "Sorry, I can't get that to work.  Go find one and rerun Configure." >&4
  exit 1
 fi
fi

case "$ok" in
false)
 cppstdin="$x_cpp"
 cppminus="$x_minus"
 cpprun="$x_cpp"
 cpplast="$x_minus"
?X:
?X: If /lib/cpp is used, try using a wrapper to increase our chances to have
?X: the C compiler and our $cppstdin agree on the same symbols... However,
?X: since cpprun is guaranteed not to be a wrapper, we must clear it if the
?X: only preprocessor we found was a wrapper, with all our luck...
?X:
 set X $x_cpp
 shift
 case "$1" in
 "$cpp")
  echo "Perhaps can we force $cc -E using a wrapper..."
  if $wrapper <testcpp.c >testcpp.out 2>&1; \
   $contains 'abc.*xyz'
 testcpp.out >/dev/null 2>&1
  then
```

```
   echo "Yup, we can."
   cppstdin="$wrapper"
   cppminus=";
  else
   echo "Nope, we'll have to live without it..."
  fi
  ;;
 esac
 case "$cpprun" in
 "$wrapper")
  cpprun="
  cpplast="
  ;;
 esac
 ;;
esac

case "$cppstdin" in
"$wrapper"|'cppstdin') ;;
*) $rm -f $wrapper;;
esac
$rm -f testcpp.c testcpp.out
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/cppstdin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_llround: Inlibc
?MAKE: -pick add $@ %<
?S:d_llround:
?S: This variable conditionally defines the HAS_LLROUND symbol, which
?S: indicates to the C program that the llround() routine is available
?S: to return the long long value nearest to x.
?S:.
?C:HAS_LLROUND:
?C: This symbol, if defined, indicates that the llround routine is
?C: available to return the nearest long long value.
?C:.
?H:#$d_llround HAS_LLROUND  /**/
?H:.
?LINT:set d_llround
: see if llround exists
set llround d_llround
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_llround.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_time.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:07:43  ram
?RCS: patch56: typo fix, sytem -> system
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:16:38  ram
?RCS: patch36: now uses new Typedef unit to compute type information (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X: Maybe <sys/types.h> should be included?
?X:INC: i_systypes
?MAKE:d_time timetype: Csym Setvar Findhdr Myread Typedef
?MAKE: -pick add $@ %<
?S:d_time:
?S: This
 variable conditionally defines the HAS_TIME symbol, which indicates
?S: that the time() routine exists.  The time() routine is normally
?S: provided on UNIX systems.
?S:.
?S:timetype:
?S: This variable holds the type returned by time(). It can be long,
?S: or time_t on BSD sites (in which case <sys/types.h> should be
?S: included). Anyway, the type Time_t should be used.
?S:.
?C:HAS_TIME (TIMER):
?C: This symbol, if defined, indicates that the time() routine exists.
?C:.
?C:Time_t (TIMETYPE):
?C: This symbol holds the type returned by time(). It can be long,
?C: or time_t on BSD sites (in which case <sys/types.h> should be
?C: included).
```

```
?C:.
?H:#$d_time HAS_TIME  /**/
?H:#define Time_t $timetype  /* Time type */
?H:.
?LINT:set d_time
: see if time exists
echo " "
if set time val -f d_time; eval $csym; $val; then
 echo 'time() found.' >&4
 val="$define"
 set time_t timetype long stdio.h sys/types.h
 eval $typedef
 dflt="$timetype"
 echo " "
 rp="What type is returned by time() on this
 system?"
 . ./myread
 timetype="$ans"
else
 echo 'time() not found, hope that will do.' >&4
 val="$undef"
 timetype='int';
fi
set d_time
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_time.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: h_sysfile.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: h_sysfile.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:h_sysfile: Nothing
?MAKE: -pick add $@ %<
?S:h_sysfile:
```

```
?S: This is variable gets set in various places to tell i_sys_file that
?S: <sys/file.h> should be included.
?S:.
: Initialize h_sysfile
h_sysfile=false
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/h_sysfile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_pwd.U,v 3.0.1.2 1995/07/25 14:10:57 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: i_pwd.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:10:57  ram
?RCS: patch56: use setvar so hint file values can override our guesses (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:03:27  ram
?RCS: patch23: had forgotten cppminus in cppstdin test (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:25  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit checks whether there is a pwd system or not
?X:
?MAKE:i_pwd d_pwquota d_pwage d_pwchange
 d_pwclass d_pwexpire \
 d_pwgecos d_pwpasswd d_pwcomment: \
 contains rm cppstdin cppflags cppminus Inhdr Findhdr Setvar
?MAKE: -pick add $@ %<
?S:i_pwd:
?S: This variable conditionally defines I_PWD, which indicates
?S: to the C program that it should include <pwd.h>.
?S:.
?S:d_pwquota:
?S: This variable conditionally defines PWQUOTA, which indicates
?S: that struct passwd contains pw_quota.
?S:.
?S:d_pwage:
```

```
?S: This variable conditionally defines PWAGE, which indicates
?S: that struct passwd contains pw_age.
?S:.
?S:d_pwchange:
?S: This variable conditionally defines PWCHANGE, which indicates
?S: that struct passwd contains pw_change.
?S:.
?S:d_pwclass:
?S: This variable conditionally defines PWCLASS, which indicates
?S: that struct passwd contains pw_class.
?S:.
?S:d_pwexpire:
?S: This variable conditionally defines PWEXPIRE, which indicates
?S: that struct passwd contains pw_expire.
?S:.
?S:d_pwcomment:
?S: This variable conditionally defines PWCOMMENT, which indicates
?S: that
 struct passwd contains pw_comment.
?S:.
?S:d_pwgecos:
?S: This variable conditionally defines PWGECOS, which indicates
?S: that struct passwd contains pw_gecos.
?S:.
?S:d_pwpasswd:
?S: This variable conditionally defines PWPASSWD, which indicates
?S: that struct passwd contains pw_passwd.
?S:.
?C:I_PWD:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <pwd.h>.
?C:.
?C:PWQUOTA:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_quota.
?C:.
?C:PWAGE:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_age.
?C:.
?C:PWCHANGE:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_change.
?C:.
?C:PWCLASS:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_class.
?C:.
```

```
?C:PWEXPIRE:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_expire.
?C:.
?C:PWCOMMENT:
?C: This
 symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_comment.
?C:.
?C:PWGECOS:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_gecos.
?C:.
?C:PWPASSWD:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_passwd.
?C:.
?H:#$i_pwd I_PWD  /**/
?H:#$d_pwquota PWQUOTA /**/
?H:#$d_pwage PWAGE /**/
?H:#$d_pwchange PWCHANGE /**/
?H:#$d_pwclass PWCLASS /**/
?H:#$d_pwexpire PWEXPIRE /**/
?H:#$d_pwcomment PWCOMMENT /**/
?H:#$d_pwgecos PWGECOS /**/
?H:#$d_pwpasswd PWPASSWD /**/
?H:.
?LINT: set i_pwd d_pwquota d_pwage d_pwchange d_pwclass d_pwexpire d_pwcomment
?LINT: set d_pwgecos d_pwpasswd
?T:xxx
: see if this is a pwd.h system
set pwd.h i_pwd
eval $inhdr

case "$i_pwd" in
$define)
 xxx=`./findhdr pwd.h`
 $cppstdin $cppflags $cppminus < $xxx >$$.h

 if $contains 'pw_quota' $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_pwquota
 eval $setvar

 if $contains 'pw_age'
```

```
$$.h >/dev/null 2>&1; then
 val="$define"
else
 val="$undef"
fi
set d_pwage
eval $setvar

if $contains 'pw_change' $$.h >/dev/null 2>&1; then
 val="$define"
else
 val="$undef"
fi
set d_pwchange
eval $setvar

if $contains 'pw_class' $$.h >/dev/null 2>&1; then
 val="$define"
else
 val="$undef"
fi
set d_pwclass
eval $setvar

if $contains 'pw_expire' $$.h >/dev/null 2>&1; then
 val="$define"
else
 val="$undef"
fi
set d_pwexpire
eval $setvar

if $contains 'pw_comment' $$.h >/dev/null 2>&1; then
 val="$define"
else
 val="$undef"
fi
set d_pwcomment
eval $setvar

if $contains 'pw_gecos' $$.h >/dev/null 2>&1; then
 val="$define"
else
 val="$undef"
fi
set d_pwgecos
eval $setvar
```

```
 if $contains 'pw_passwd' $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_pwpasswd
 eval $setvar

 $rm -f $$.h
 ;;
*)
 val="$undef";
 set d_pwquota; eval $setvar
 set d_pwage; eval $setvar
 set d_pwchange; eval $setvar
 set d_pwclass; eval $setvar
 set
 d_pwexpire; eval $setvar
 set d_pwcomment; eval $setvar
 set d_pwgecos; eval $setvar
 set d_pwpasswd; eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_pwd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: kernel.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: kernel.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:kernel: Getfile test
?MAKE: -pick add $@ %<
?S:kernel:
?S: This variable becomes the (fully rooted) path name of the kernel.
?S:.
```

```
: find the name of the kernel.
echo " "
case "$kernel" in
")
 if $test -r /unix; then
  dflt=/unix
 elif $test -r /vmunix; then
  dflt=/vmunix
 elif $test -r /xenix; then
  dflt=/xenix
 elif $test -r /mach; then
  dflt=/mach
 elif
 $test -r /dgux; then
  dflt=/dgux
 elif $test -r /hp-ux; then
  dflt=/hp-ux
 elif $test -r /syst; then
  dflt=/syst
 elif $test -r /arix; then
  dflt=/arix
 elif $test -r /irix; then
  dflt=/arix
 else
  dflt='unknown'
  set X /*x
  shift
  case $# in
  1)
   if $test -r "$1"; then
    dflt="$1"
   fi
   ;;
  esac
 fi
 ;;
*)
 dflt="$kernel"
 ;;
esac
fn=f
rp='What is the name of your kernel?'
. ./getfile
kernel="$ans"
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/kernel.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_ldbl_dig: Myread contains cat rm Setvar \
 cppstdin cppflags cppminus
?MAKE: -pick add $@ %<
?S:d_ldbl_dig:
?S: This variable conditionally defines d_ldbl_dig if this system's
?S: header files provide LDBL_DIG, which is the number of significant
?S: digits in a long double precision number.
?S:.
?C:HAS_LDBL_DIG:
?C: This symbol, if defined, indicates that this system's <float.h>
?C: or <limits.h> defines the symbol LDBL_DIG, which is the number
?C: of significant digits in a long double precision number. Unlike
?C: for
 DBL_DIG, there's no good guess for LDBL_DIG if it is undefined.
?C:.
?H:#$d_ldbl_dig HAS_LDBL_DIG /* */
?H:.
?F:!ldbl_dig.c
?LINT:set d_ldbl_dig
: See if number of significant digits in a double precision number is known
echo " "
$cat >ldbl_dig.c <<EOM
#include <limits.h>
#include <float.h>
#ifdef LDBL_DIG
printf("Contains LDBL_DIG");
#endif
EOM
$cppstdin $cppflags $cppminus < ldbl_dig.c >ldbl_dig.E 2>/dev/null
if $contains 'LDBL_DIG' ldbl_dig.E >/dev/null 2>&1; then
 echo "LDBL_DIG found." >&4
 val="$define"
else
 echo "LDBL_DIG NOT found." >&4
 val="$undef"
fi
```

```
$rm -f ldbl_dig.?
set d_ldbl_dig
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_ldbl_dig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2017, Karl Williamson
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_mbrlen: Inlibc
?MAKE: -pick add $@ %<
?S:d_mbrlen:
?S: This variable conditionally defines the HAS_MBRLEN symbol if the
?S: mbrlen() routine is available to be used to get the length of
?S: multi-byte character strings.
?S:.
?C:HAS_MBRLEN:
?C: This symbol, if defined, indicates that the mbrlen routine is
?C: available to get the length of multi-byte character strings.
?C:.
?H:#$d_mbrlen HAS_MBRLEN /**/
?H:.
?LINT: set d_mbrlen
: see if mbrlen exists
set mbrlen d_mbrlen
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_mbrlen.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_llroundl: Inlibc
?MAKE: -pick add $@ %<
?S:d_llroundl:
?S: This variable conditionally defines the HAS_LLROUNDL symbol, which
?S: indicates to the C program that the llroundl() routine is available
```

```
?S: to return the long long value nearest to x away from zero.
?S:.
?C:HAS_LLROUNDL:
?C: This symbol, if defined, indicates that the llroundl routine is
?C: available to return the nearest long long value away from zero of
?C: the long double argument value.
?C:.
?H:#$d_llroundl HAS_LLROUNDL  /**/
?H:.
?LINT:set d_llroundl
: see if llroundl exists
set llroundl d_llroundl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_llroundl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pathconf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_pathconf.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:14:54  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_pathconf d_fpathconf: Inlibc
?MAKE: -pick add $@ %<
?S:d_pathconf:
?S: This variable conditionally defines the HAS_PATHCONF symbol, which
?S: indicates to the C program that the pathconf() routine is available
?S: to determine file-system related limits and options
 associated
?S: with a given filename.
?S:.
?S:d_fpathconf:
?S: This variable conditionally defines the HAS_FPATHCONF symbol, which
?S: indicates to the C program that the pathconf() routine is available
?S: to determine file-system related limits and options associated
```

```
?S: with a given open file descriptor.
?S:.
?C:HAS_PATHCONF:
?C: This symbol, if defined, indicates that pathconf() is available
?C: to determine file-system related limits and options associated
?C: with a given filename.
?C:.
?C:HAS_FPATHCONF:
?C: This symbol, if defined, indicates that pathconf() is available
?C: to determine file-system related limits and options associated
?C: with a given open file descriptor.
?C:.
?H:#$d_pathconf HAS_PATHCONF  /**/
?H:#$d_fpathconf HAS_FPATHCONF  /**/
?H:.
?LINT:set d_pathconf
?LINT:set d_fpathconf
: see if pathconf exists
set pathconf d_pathconf
eval $inlibc

@if d_fpathconf || HAS_FPATHCONF
: see if fpathconf exists
set fpathconf d_fpathconf
eval $inlibc

@end
```

Found in path(s):
*
/opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_pathconf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_finitel: Inlibc
?MAKE: -pick add $@ %<
?S:d_finitel:
?S: This variable conditionally defines the HAS_FINITEL symbol, which
?S: indicates to the C program that the finitel() routine is available.
?S:.
?C:HAS_FINITEL:
```

```
?C: This symbol, if defined, indicates that the finitel routine is
?C: available to check whether a long double is finite
?C: (non-infinity non-NaN).
?C:.
?H:#$d_finitel HAS_FINITEL  /**/
?H:.
?LINT:set d_finitel
: see if finitel exists
set finitel d_finitel
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_finitel.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_wifstat.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:47:43  ram
?RCS: patch61: added a ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  14:09:10  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.1  1995/03/21  08:47:46  ram
?RCS: patch52: created
?RCS:
?MAKE:d_wifstat: d_uwait +cc +ccflags +ldflags +libs Oldconfig cat rm
?MAKE: -pick add $@ %<
?S:d_wifstat:
?S: This symbol conditionally defines USE_WIFSTAT if the C program can
?S: safely
 use the WIFxxx macros with the kind of wait() parameter
?S: declared in the program (see UNION_WAIT), or if it can't. Should
?S: only matter on HP-UX, where the macros are incorrectly written and
?S: therefore cause programs using them with an 'union wait' variable
?S: to not compile properly.
?S:.
?C:USE_WIFSTAT:
```

```
?C: This symbol, if defined, indicates to the C program that the argument
?C: for the WIFxxx set of macros such as WIFSIGNALED or WIFEXITED can
?C: be of the same kind as the one used to hold the wait() status. Should
?C: only matter on HP-UX, where the macros are incorrectly written and
?C: therefore cause programs using them with an 'union wait' variable
?C: to not compile properly. See also UNION_WAIT.
?C:.
?H:#$d_wifstat USE_WIFSTAT  /**/
?H:.
?T:type
?F:!foo
: see if we can use WIFxxx macros
echo " "
case "$d_wifstat" in
"$define") echo "As before, you can safely use WIFEXITED and friends!" >&4;;
"$undef") echo "You still can't use WIFEXITED and friends!" >&4;;
*)
 echo
 "Let's see whether you can use the WIFEXITED(status) macro and its"
 case "$d_uwait" in
 "$define") type='union wait';;
 *) type='int';;
 esac
 echo "friends with status declared as '$type status'..."
 $cat >foo.c <<EOCP
#include <sys/types.h>
#include <sys/wait.h>

int main()
{
 $type status;
 int e = 0;

#ifdef WIFEXITED
 if (WIFEXITED(status))
  printf("\n");
 exit(0);
#else
 exit(2);
#endif
}
EOCP
 d_wifstat="$undef"
 if $cc $ccflags $ldflags -o foo foo.c $libs >/dev/null 2>&1; then
  if ./foo >/dev/null; then
   echo "Great! Looks like we can use the WIFxxx macros." >&4
   d_wifstat="$define"
  else
```

```
  echo "You don't seem to have WIFxxx macros, but that's ok." >&4
 fi
else
 echo "Apparently you can't use WIFxxx macros properly." >&4
fi
$rm -f foo.* foo core
;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_wifstat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2014, H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_backtrace.U,v $
?RCS:
?MAKE:d_backtrace: Inlibc
?MAKE: -pick add $@ %<
?S:d_backtrace:
?S: This variable conditionally defines the HAS_BACKTRACE symbol, which
?S: indicates to the C program that the backtrace() routine is available
?S: to get a stack trace.
?S:.
?C:HAS_BACKTRACE:
?C: This symbol, if defined, indicates that the backtrace() routine is
?C: available to get a stack trace.  The <execinfo.h> header must be
?C: included to use this routine.
?C:.
?H:#$d_backtrace HAS_BACKTRACE /**/
?H:.
?LINT:set d_backtrace
:
 see if backtrace exists
set backtrace d_backtrace
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/modified/d_backtrace.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_linuxstd.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_linuxstd.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:14:05  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_linuxstd: d_stdstdio cppstdin cppflags cppminus \
 contains rm Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_linuxstd:
?S: This variable conditionally defines USE_LINUX_STDIO if this system
?S: has a FILE structure declaring _IO_read_base, _IO_read_ptr,
?S: and _IO_read_end
 in stdio.h.
?S:.
?C:USE_LINUX_STDIO:
?C: This symbol is defined if this system has a FILE structure declaring
?C: _IO_read_base, _IO_read_ptr, and _IO_read_end in stdio.h.
?C:.
?H:#$d_linuxstd USE_LINUX_STDIO  /**/
?H:.
?T:xxx
?LINT:set d_linuxstd
: see if stdio is like that in linux
case "$d_stdstdio" in
"$undef")
 echo " "
 xxx=`./findhdr stdio.h`
 $cppstdin $cppflags $cppminus < "$xxx" > stdio.E
 if $contains 'char.*_IO_read_base' stdio.E >/dev/null 2>&1 && \
  $contains '_IO_read_ptr' stdio.E >/dev/null 2>&1 && \
  $contains '_IO_read_end' stdio.E >/dev/null 2>&1 ; then
   echo "Your stdio looks like linux." >&4
   val="$define"
 else
```

```
  echo "You don't have linux stdio, either." >&4
  val="$undef"
 fi
 $rm -f stdio.E
 ;;
*) val="$undef" ;;
esac

set d_linuxstd
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_linuxstd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_statblks.U,v 3.0 1993/08/18 12:07:29 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_statblks.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:29  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_statblks: Hasfield i_sysstat
?MAKE: -pick add $@ %<
?S:d_statblks:
?S: This variable conditionally defines USE_STAT_BLOCKS
?S: if this system has a stat structure declaring
?S: st_blksize and st_blocks.
?S:.
?C:USE_STAT_BLOCKS (STATBLOCKS):
?C: This symbol is defined if this system has a stat structure declaring
?C: st_blksize and st_blocks.
?C:.
?H:?%<:#ifndef
 USE_STAT_BLOCKS
?H:?%<:#$d_statblks USE_STAT_BLOCKS /**/
?H:?%<:#endif
?H:.
?LINT:set d_statblks
: see if stat knows about block sizes
```

```
echo " "
echo "Checking to see if your struct stat has st_blocks field..." >&4
set d_statblks stat st_blocks $i_sysstat sys/stat.h
eval $hasfield
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_statblks.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fp_classl: Inlibc
?MAKE: -pick add $@ %<
?S:d_fp_classl:
?S: This variable conditionally defines the HAS_FP_CLASSL symbol, which
?S: indicates to the C program that the fp_classl() routine is available.
?S:.
?C:HAS_FP_CLASSL:
?C: This symbol, if defined, indicates that the fp_classl routine is
?C: available to classify long doubles.  Available for example in
?C: Digital UNIX.  See for possible values HAS_FP_CLASS.
?C:.
?H:#$d_fp_classl HAS_FP_CLASSL  /**/
?H:.
?LINT:set d_fp_classl
: see if fp_classl exists
set fp_classl d_fp_classl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fp_classl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_log2: Inlibc
?MAKE: -pick add $@ %<
?S:d_log2:
?S: This variable conditionally defines the HAS_LOG2 symbol, which
?S: indicates to the C program that the log2() routine is available
```

```
?S: to compute log base two.
?S:.
?C:HAS_LOG2:
?C: This symbol, if defined, indicates that the log2 routine is
?C: available to do the log2 function.
?C:.
?H:#$d_log2 HAS_LOG2  /**/
?H:.
?LINT:set d_log2
: see if log2 exists
set log2 d_log2
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_log2.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_termio.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_termio.U,v $
?RCS: Revision 3.0.1.4  1994/10/29  16:20:54  ram
?RCS: patch36: call ./usg and ./Cppsym explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.3  1994/08/29  16:26:38  ram
?RCS: patch32: don't include all threee I_* symbols in config.h
?RCS: patch32: (had forgotten to undo this part last time)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:25:03  ram
?RCS: patch27: undone ADO's fix in previous patch since it was useless
?RCS:
?RCS:
 Revision 3.0.1.1  1994/05/06  15:05:23  ram
?RCS: patch23: now include all three defines in config.h (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_termio i_sgtty i_termios: test Inlibc Cppsym Guess Setvar Findhdr Warn run
?MAKE: -pick add $@ %<
```

```
?S:i_termio:
?S: This variable conditionally defines the I_TERMIO symbol, which
?S: indicates to the C program that it should include <termio.h> rather
?S: than <sgtty.h>.
?S:.
?S:i_termios:
?S: This variable conditionally defines the I_TERMIOS symbol, which
?S: indicates to the C program that the POSIX <termios.h> file is
?S: to be included.
?S:.
?S:i_sgtty:
?S: This variable conditionally defines the I_SGTTY symbol, which
?S: indicates to the C program that it should include <sgtty.h> rather
?S: than <termio.h>.
?S:.
?C:I_TERMIO:
?C: This symbol, if defined, indicates that the program should include
?C: <termio.h> rather than <sgtty.h>.  There are also differences in
?C: the
 ioctl() calls that depend on the value of this symbol.
?C:.
?C:I_TERMIOS:
?C: This symbol, if defined, indicates that the program should include
?C: the POSIX termios.h rather than sgtty.h or termio.h.
?C: There are also differences in the ioctl() calls that depend on the
?C: value of this symbol.
?C:.
?C:I_SGTTY:
?C: This symbol, if defined, indicates that the program should include
?C: <sgtty.h> rather than <termio.h>.  There are also differences in
?C: the ioctl() calls that depend on the value of this symbol.
?C:.
?H:#$i_termio I_TERMIO  /**/
?H:#$i_termios I_TERMIOS  /**/
?H:#$i_sgtty I_SGTTY  /**/
?H:.
?T:val2 val3
?LINT:set i_termio i_sgtty i_termios
: see if this is a termio system
val="$undef"
val2="$undef"
val3="$undef"
?X: Prefer POSIX-approved termios.h over all else
if $test `./findhdr termios.h`; then
   set tcsetattr i_termios
   eval $inlibc
   val3="$i_termios"
fi
```

```
echo " "
case "$val3" in
   "$define") echo "You have POSIX termios.h... good!" >&4;;
   *)
  if ./Cppsym pyr; then
     case "`$run /bin/universe`" in
  ucb) if $test `./findhdr sgtty.h`; then
   val2="$define"
   echo "<sgtty.h> found." >&4
      else
   echo "System is pyramid with BSD universe."
   ./warn "<sgtty.h> not found--you could have problems."
      fi;;
  *)  if $test `./findhdr termio.h`; then
   val="$define"
   echo "<termio.h> found." >&4
      else
   echo "System is pyramid with USG universe."
   ./warn "<termio.h> not found--you could have problems."
      fi;;
     esac
?X: Start with USG to avoid problems if both usg/bsd was guessed
 elif ./usg; then
     if $test `./findhdr termio.h`; then
  echo "<termio.h> found." >&4
  val="$define"
     elif $test `./findhdr sgtty.h`; then
  echo "<sgtty.h> found." >&4
  val2="$define"
     else
  ./warn "Neither <termio.h> nor <sgtty.h> found--cross fingers!"
     fi
 else
     if $test `./findhdr sgtty.h`; then
  echo "<sgtty.h> found." >&4
  val2="$define"
     elif $test `./findhdr termio.h`; then
  echo "<termio.h>
 found." >&4
  val="$define"
     else
  ./warn "Neither <sgtty.h> nor <termio.h> found--cross fingers!"
     fi
 fi;;
esac
set i_termio; eval $setvar
val=$val2; set i_sgtty; eval $setvar
val=$val3; set i_termios; eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_termio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libnlist.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libnlist.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:08:02  ram
?RCS: patch61: added usrinc and mips on the dependency line
?RCS: patch61: make sure we call ./mips
?RCS: patch61: added a ?LINT: hint
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:00  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libnlist: Loc libpth Guess usrinc _a
?MAKE: -pick add $@ %<
?S:libnlist (libmld):
?S: This variable contains the name of the library required to
 get the
?S: definition of the nlist() function.  On a MIPS RISC/OS box, it is -lmld.
?S: Under Sys Vr4, it is -lelf.  Otherwise, its value is empty.
?S:.
?T:xxx
?LINT:use usrinc
: see if we need a special library for 'nlist()'
echo " "
: How about doing this if nlist is not in libc...
if ./mips ; then
 libnlist='-lmld'
else
 xxx=`./loc libelf$_a x $libpth`
 case "$xxx" in
 x)  ;;
 *)
  libnlist="$xxx"
  ;;
 esac
```

```
fi
case "$libnlist" in
") echo "No special library for nlist() seems necessary." >&4
 ;;
*)  echo "nlist() can be found in $libnlist." >&4
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/libnlist.U
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```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_netinettcp: Inhdr
?MAKE: -pick add $@ %<
?S:i_netinettcp:
?S: This variable conditionally defines the I_NETINET_TCP symbol,
?S: and indicates whether a C program should include <netinet/tcp.h>.
?S:.
?C:I_NETINET_TCP:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <netinet/tcp.h>.
?C:.
?H:#$i_netinettcp   I_NETINET_TCP                /**/
?H:.
?LINT:set i_netinettcp
: see if netinet/tcp.h is available
set netinet/tcp.h i_netinettcp
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_netinettcp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
```

```
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isfinitel: Inlibc
?MAKE: -pick add $@ %<
?S:d_isfinitel:
?S: This variable conditionally defines the HAS_ISFINITEL symbol, which
?S: indicates to the C program that the isfinitel() routine is available.
?S:.
?C:HAS_ISFINITEL:
?C: This symbol, if defined, indicates that the isfinitel routine is
?C: available to check whether a long double is finite.
?C: (non-infinity non-NaN).
?C:.
?H:#$d_isfinitel HAS_ISFINITEL  /**/
?H:.
?LINT:set d_isfinitel
: see if isfinitel exists
set isfinitel d_isfinitel
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_isfinitel.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sunscanf.U,v 3.0 1993/08/18 12:09:54 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sunscanf.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:sunscanf: cat rm Compile Myread test Setvar
?MAKE: -pick add $@ %<
?S:sunscanf:
?S: This variable is set if this system runs with the Sun version
?S: of scanf.
?S:.
?C:SUNSCANF:
```

```
?C: This variable is set if this system runs with the Sun version
?C: of scanf.
?C:.
?H:#$sunscanf SUNSCANF  /**/
?H:.
?LINT:set sunscanf
?F:!scanf
: check to see what
 kinda scanf your using.
echo " "
echo "Checking to see what flavor of scanf you have..." >&4
$cat >scanf.c <<'EOCP'
int main()
{
 float value;

 sscanf("4.5","%g",&value);
 printf("%d\n", value == 4.5);
}
EOCP
set scanf
if eval $compile_ok; then
 if $test `./scanf` = 0; then
  echo "Hmm.. seems you are not running the USG flavor.."
  val="$undef"
 else
  echo "Uh... you are running the USG flavor of scanf."
  val="$define"
 fi
else
 echo "(I can't seem to compile the test program... Guessing)"
 val="$undef"
fi
set sunscanf
eval $setvar
$rm -f scanf*
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/sunscanf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
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```

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_syscallproto: Hasproto i_unistd
?MAKE: -pick add $@ %<
?S:d_syscallproto:
?S: This variable conditionally defines the HAS_SYSCALL_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the syscall() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_SYSCALL_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the syscall() function.  Otherwise, it is up
?C: to the program to supply one.  Good guesses are
?C:  extern
 int syscall(int,  ...);
?C:  extern int syscall(long, ...);
?C:.
?H:#$d_syscallproto HAS_SYSCALL_PROTO /**/
?H:.
?LINT:set d_syscallproto
: see if prototype for syscall is available
echo " "
set d_syscallproto syscall $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_syscallproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_finite: Inlibc
?MAKE: -pick add $@ %<
?S:d_finite:
?S: This variable conditionally defines the HAS_FINITE symbol, which
?S: indicates to the C program that the finite() routine is available.
?S:.
?C:HAS_FINITE:
?C: This symbol, if defined, indicates that the finite routine is
```

```
?C: available to check whether a double is finite (non-infinity non-NaN).
?C:.
?H:#$d_finite HAS_FINITE  /**/
?H:.
?LINT:set d_finite
: see if finite exists
set finite d_finite
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_finite.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_symlink.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_symlink.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:41  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_symlink: Inlibc
?MAKE: -pick add $@ %<
?S:d_symlink:
?S: This variable conditionally defines the HAS_SYMLINK symbol, which
?S: indicates to the C program that the symlink() routine is available
?S: to create symbolic links.
?S:.
?C:HAS_SYMLINK (SYMLINK):
?C: This symbol, if defined, indicates that the symlink routine is available
?C: to
 create symbolic links.
?C:.
?H:#$d_symlink HAS_SYMLINK /**/
?H:.
?LINT:set d_symlink
: see if symlink exists
set symlink d_symlink
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_symlink.U
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```
?RCS: $Id: mboxchar.U 1 2006-08-24 12:32:52Z rmanfredi $
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: mboxchar.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:13:12  ram
?RCS: patch56: ensure ctrl-A characters are visible in prompt (WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:11:22  ram
?RCS: patch23: added support for MMDF mailboxes (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:mboxchar: cat package shsharp Myread Oldconfig
?MAKE: -pick add $@ %<
?S:mboxchar:
?S: This variable
 contains the eventual value of the MBOXCHAR symbol,
?S: which is how a C program can identify a file as a mailbox.
?S:.
?C:MBOXCHAR:
?C: This symbol contains a character which will match the beginning
?C: of a mailbox file.
?C:.
?H:#define MBOXCHAR '$mboxchar'  /**/
?H:.
?T:CTRLA
?INIT:CTRLA=`echo a | tr a '\001'`
: determine how to determine when a file is a mailbox
case "$mboxchar" in
") dflt=F;;
?X: The following ^A is two-chars to ensure it will print out -- WED
"$CTRLA") dflt='^A';;
*)  dflt="$mboxchar";;
esac
$cat <<EOM
```

```
In saving articles, $package wants to differentiate between saving to
mailbox format files and normal files.  It does this by examining the
first character of the file in question.  On most systems the first line
starts with "From ...", so the first character is an F.  Other systems
use magic cookies like control codes between articles, so one of those
would be first.  For example, MMDF messages are separated with lines of
four control-A's (you may specify one
 as ^A, i.e. caret A).

EOM
rp="What's the first character of a mailbox file?"
. ./myread
mboxchar="$ans"
case "$mboxchar" in
'F') ;;
"$CTRLA") ;;
'^A'|'^a') mboxchar="$CTRLA";;
*)  cat <<'EOM'

You will need to edit the shell script mbox.saver to properly append an
article to a mailbox.  The arguments to the script are documented in
EOM
 case "$shsharp" in
 false) echo "comments in mbox.saver.std.";;
 true) echo "comments in the shell script itself.";;
 esac
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/mboxchar.U
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```
?RCS: $Id: d_sigaction.U,v 3.0.1.1 1997/02/28 15:44:29 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_sigaction.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:44:29  ram
?RCS: patch61: created
?RCS:
?RCS:
```

```
?MAKE:d_sigaction: Csym Compile Setvar cat rm_try i_stdlib
?MAKE: -pick add $@ %<
?S:d_sigaction:
?S: This variable conditionally defines the HAS_SIGACTION symbol, which
?S: indicates that the Vr4 sigaction() routine is available.
?S:.
?C:HAS_SIGACTION:
?C: This symbol, if defined, indicates that Vr4's sigaction() routine
?C: is available.
?C:.
?H:#$d_sigaction
 HAS_SIGACTION /**/
?H:.
?T:val
?LINT:set d_sigaction
: see if we have sigaction
echo " "
if set sigaction val -f d_sigaction; eval $csym; $val; then
 echo 'sigaction() found.' >&4
?X:
?X: Solaris 2.5_x86 with SunWorks Pro C 3.0.1 doesn't have a complete
?X: sigaction structure if compiled with cc -Xc.  This compile test
?X: will fail then.  <doughera@lafcol.lafayette.edu>
?X:
 $cat > try.c <<EOP
#include <stdio.h>
#include <sys/types.h>
#include <signal.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
{
   struct sigaction act, oact;
   act.sa_flags = 0;
   oact.sa_handler = 0;
   /* so that act and oact are used */
   exit(act.sa_flags == 0 &&  oact.sa_handler == 0);
}
EOP
 set try
 if eval $compile_ok; then
  val="$define"
 else
  echo "But you don't seem to have a usable struct sigaction." >&4
  val="$undef"
 fi
```

```
else
 echo 'sigaction NOT found.' >&4
 val="$undef"
fi
set d_sigaction; eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_sigaction.U
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```
?RCS: $Id: d_ctime_r.U,v 0RCS:
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?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_ctime_r ctime_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_time i_systime extern_C
?MAKE: -pick add $@ %<
?S:d_ctime_r:
?S: This variable conditionally defines the HAS_CTIME_R symbol,
?S: which indicates to the C program that the ctime_r()
?S: routine is available.
?S:.
?S:ctime_r_proto:
?S: This variable encodes the prototype of ctime_r.
?S: It is zero if d_ctime_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_ctime_r
?S: is defined.
?S:.
?C:HAS_CTIME_R:
?C: This symbol, if defined, indicates that the ctime_r routine
?C: is available to ctime re-entrantly.
?C:.
?C:CTIME_R_PROTO:
?C: This
 symbol encodes the prototype of ctime_r.
?C: It is zero if d_ctime_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_ctime_r
?C: is defined.
?C:.
?H:#$d_ctime_r HAS_CTIME_R /**/
?H:#define CTIME_R_PROTO $ctime_r_proto /**/
?H:.
```

```
?T:try hdrs d_ctime_r_proto
: see if ctime_r exists
set ctime_r d_ctime_r
eval $inlibc
case "$d_ctime_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_time time.h $i_systime sys/time.h"
 case "$d_ctime_r_proto:$usethreads" in
 ":define") d_ctime_r_proto=define
  set d_ctime_r_proto ctime_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_ctime_r_proto" in
 define)
 case "$ctime_r_proto" in
 "|0) try='char* ctime_r(const time_t*, char*);'
 ./protochk "$extern_C $try" $hdrs && ctime_r_proto=B_SB ;;
 esac
 case "$ctime_r_proto" in
 "|0) try='char* ctime_r(const time_t*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && ctime_r_proto=B_SBI ;;
 esac
 case "$ctime_r_proto" in
 "|0) try='int ctime_r(const
 time_t*, char*);'
 ./protochk "$extern_C $try" $hdrs && ctime_r_proto=I_SB ;;
 esac
 case "$ctime_r_proto" in
 "|0) try='int ctime_r(const time_t*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && ctime_r_proto=I_SBI ;;
 esac
 case "$ctime_r_proto" in
 "|0) d_ctime_r=undef
  ctime_r_proto=0
  echo "Disabling ctime_r, cannot determine prototype." >&4 ;;
 * ) case "$ctime_r_proto" in
  REENTRANT_PROTO*) ;;
  *) ctime_r_proto="REENTRANT_PROTO_$ctime_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "ctime_r has no prototype, not using it." >&4 ;;
  esac
  d_ctime_r=undef
  ctime_r_proto=0
```

```
  ;;
 esac
 ;;
*) ctime_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_ctime_r.U
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```
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_flockproto: Hasproto i_sysfile
?MAKE: -pick add $@ %<
?S:d_flockproto:
?S: This variable conditionally defines the HAS_FLOCK_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the flock() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_FLOCK_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the flock() function.  Otherwise, it is up
?C: to the program to supply one.  A good guess is
?C:  extern int flock(int,
 int);
?C:.
?H:#$d_flockproto HAS_FLOCK_PROTO /**/
?H:.
?LINT:set d_flockproto
: see if prototype for flock is available
echo " "
set d_flockproto flock $i_sysfile sys/file.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_flockproto.U

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```
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?RCS:
?MAKE:d_fs_data_s: Hasstruct i_sysparam i_sysmount i_systypes Setvar
?MAKE: -pick add $@ %<
?S:d_fs_data_s:
?S: This variable conditionally defines the HAS_STRUCT_FS_DATA symbol,
?S: which indicates that the struct fs_data is supported.
?S:.
?C:HAS_STRUCT_FS_DATA:
?C: This symbol, if defined, indicates that the struct fs_data
?C: to do statfs() is supported.
?C:.
?H:#$d_fs_data_s HAS_STRUCT_FS_DATA /**/
?H:.
?LINT:set d_fs_data_s
: Check for fs_data_s
echo " "
echo "Checking to see if your system supports struct fs_data..." >&4
set d_fs_data_s fs_data $i_systypes sys/types.h $i_sysparam sys/param.h $i_sysmount sys/mount.h
eval $hasstruct
case "$d_fs_data_s" in
"$define")      echo "Yes, it does."   ;;
*)
            echo "No, it doesn't." ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fs_data_s.U
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```
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?RCS:
```

```
?MAKE:versionONLY: cat Myread Setvar Devel
?MAKE: -pick add $@ %<
?LINT:set versionONLY
?Y:TOP
?S:versionONLY:
?S: If set, this symbol indicates that only the version-specific
?S: components of a perl installation should be installed.
?S: This may be useful for making a test installation of a new
?S: version without disturbing the existing installation.
?S: Setting versionONLY is equivalent to setting installperl's -v option.
?S: In particular, the non-versioned scripts and programs such as
?S: a2p, c2ph, h2xs, pod2*, and perldoc
 are not installed
?S: (see INSTALL for a more complete list).  Nor are the man
?S: pages installed.
?S: Usually, this is undef.
?S:.
?LINT:extern inc_version_list
?LINT:change inc_version_list
?LINT:extern inc_version_list_init
?LINT:change inc_version_list_init
?LINT:extern version
: determine whether to use a version number suffix for installed binaries
echo " "
$cat <<EOM
Do you want to use a version number suffix for installed binaries? This
will install 'perl$version' instead of 'perl', and likewise for other
binaries like 'perldoc' and 'cpan'. This allows many versions of perl
to be installed side-by-side. Unless you are a developer, you probably
do *not* want to do this.
EOM
case "$versionONLY" in
"$define"|[Yy]*|true) dflt='y' ;;
*) dflt='n';
esac
rp="Do you want to use a version number suffix for installed binaries?"
. ./myread
case "$ans" in
[yY]*) val="$define";;
*) val="$undef" ;;
esac
set versionONLY
eval $setvar

case "$versionONLY" in
"$define") inc_version_list=''
           inc_version_list_init=0
          ;;
```

```
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/versiononly.U
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```
?RCS: $Id: sbrktype.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sbrktype.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:43  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:sbrktype: Myread Oldconfig Loc contains Findhdr
?MAKE: -pick add $@ %<
?S:sbrktype:
?S: This variable defines sbrktype to be something like caddr_t, char *,
?S: or whatever type is used to declare sbrk() in the kernel.
?S:.
?C:Caddr_t (SBRKTYPE):
?C: This symbol holds the type of a core address. It is inteded to be used
?C: to safely
 declare the return type of system calls like sbrk(). It might
?C: be necessary to include <sys/types.h> as well.
?C:.
?H:#define Caddr_t $sbrktype /* <core address> type */
?H:.
: see what type sbrk is declared as in the kernel
case "$sbrktype" in
")
 if $contains 'caddr_t;' `./findhdr sys/types.h` >/dev/null 2>&1 ; then
  dflt='caddr_t';
 else
  dflt='char *';
 fi
 ;;
*)  dflt="$sbrktype"
 ;;
esac
echo " "
```

```
rp="What is the return type of sbrk() on this system?"
. ./myread
sbrktype="$ans"
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/sbrktype.U
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```
?RCS: $Id: d_tzmin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_tzmin.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:16:58  ram
?RCS: patch36: call ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:49  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_tzmin: contains cppstdin cppminus timeincl rm Setvar Guess
?MAKE: -pick add $@ %<
?S:d_tzmin:
?S: This symbol conditionally defines TZ_MINUTESWEST if the system uses
?S: tz_minuteswest in time header instead of timezone.
?S:.
?C:TZ_MINUTESWEST:
?C: This
 symbol is defined if this system uses tz_minuteswest
?C: in time header instead of timezone.
?C: If not defined, you may have to use struct timeb and ftime() rather
?C: than the new gettimeofday() system call.
?C:.
?H:#$d_tzmin TZ_MINUTESWEST  /**/
?H:.
?LINT:set d_tzmin
: see if tz_minuteswest is defined in time header
echo " "
val="$undef"
$cppstdin $cppminus < $timeincl > try 2>&1
if $contains 'tz_minuteswest' try >/dev/null 2>&1; then
echo "You have tz_minuteswest defined in $timeincl rather than timezone." >&4
```

```
 val="$define"
elif $contains 'timezone' try >/dev/null 2>&1; then
echo "You have timezone defined in $timeincl rather than tz_minuteswest." >&4
else
 echo "Your $timeincl file looks strange." >&4
fi
if ./bsd; then
 case "$d_tzmin" in
 "$undef") echo "(Maybe your system is an USG one after all?)";;
 esac
fi
set d_tzmin
eval $setvar
$rm -f try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_tzmin.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sysman.U,v $
?RCS: Revision 3.0.1.2  1994/06/20  07:08:43  ram
?RCS: patch30: now explicitly states that /usr/man/man1 is the default
?RCS: patch30: added /usr/local/man/man1 to the search list
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:13:50  ram
?RCS: patch10: added support for /local/man/man1 (WAD)
?RCS: patch10: added temporary syspath variable to cut down on line length
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:sysman: test
 Loc Oldconfig
?MAKE: -pick add $@ %<
?S:sysman:
?S: This variable holds the place where the manual is located on this
?S: system. It is not the place where the user wants to put his manual
```

```
?S: pages. Rather it is the place where Configure may look to find manual
?S: for unix commands (section 1 of the manual usually). See mansrc.
?S:.
?T:syspath
: determine where manual pages are on this system
echo " "
case "$sysman" in
")
 syspath='/usr/share/man/man1 /usr/man/man1'
 syspath="$syspath /usr/man/mann /usr/man/manl /usr/man/local/man1"
 syspath="$syspath /usr/man/u_man/man1 /usr/share/man/man1"
 syspath="$syspath /usr/catman/u_man/man1 /usr/man/l_man/man1"
 syspath="$syspath /usr/local/man/u_man/man1 /usr/local/man/l_man/man1"
 syspath="$syspath /usr/man/man.L /local/man/man1 /usr/local/man/man1"
 sysman=`./loc . /usr/man/man1 $syspath`
 ;;
esac
if $test -d "$sysman"; then
 echo "System manual is in $sysman." >&4
else
 echo "Could not find manual pages in source form." >&4
fi

Found
 in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
5.36.0/dist/U/sysman.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: i_dlfcn.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_dlfcn.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:21:53  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:i_dlfcn: Inhdr
?MAKE: -pick add $@ %<
?S:i_dlfcn:
```

```
?S: This variable conditionally defines the I_DLFCN symbol, which
?S: indicates to the C program that <dlfcn.h> exists and should
?S: be included.
?S:.
?C:I_DLFCN:
?C: This symbol, if defined, indicates that <dlfcn.h> exists
 and should
?C: be included.
?C:.
?H:#$i_dlfcn I_DLFCN  /**/
?H:.
?LINT:set i_dlfcn
: see if dlfcn is available
set dlfcn.h i_dlfcn
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_dlfcn.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: prototype.U,v 3.0.1.3 1994/05/06 15:11:49 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: prototype.U,v $
?RCS: Revision 3.0.1.3  1994/05/06  15:11:49  ram
?RCS: patch23: ensure cc flags used when looking for prototype support
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:15:36  ram
?RCS: patch16: prototype handling macros now appear only when needed
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:03:12  ram
?RCS: patch6: defines were referring to non-existent VOID symbol
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:36  ram
?RCS: Baseline for dist
 3.0 netwide release.
?RCS:
?MAKE:prototype: Nothing
?S:prototype:
?S: This variable holds the eventual value of CAN_PROTOTYPE, which
```

```
?S: indicates the C compiler can handle function prototypes.
?S:.
: stub, never used
prototype=nothing
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/prototype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_llrintl: Inlibc
?MAKE: -pick add $@ %<
?S:d_llrintl:
?S: This variable conditionally defines the HAS_LLRINTL symbol, which
?S: indicates to the C program that the llrintl() routine is available
?S: to return the long long value closest to a long double (according
?S: to the current rounding mode).
?S:.
?C:HAS_LLRINTL:
?C: This symbol, if defined, indicates that the llrintl routine is
?C: available to return the long long value closest to a long double
?C: (according to the current rounding mode).
?C:.
?H:#$d_llrintl HAS_LLRINTL  /**/
?H:.
?LINT:set d_llrintl
: see if llrintl exists
set llrintl d_llrintl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_llrintl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_systable.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: i_systable.U,v $
?RCS: Revision 3.0.1.1  1993/10/16  13:50:20  ram
?RCS: patch12: created
?RCS:
?RCS:
?MAKE:i_systable: Inhdr
?MAKE: -pick add $@ %<
?S:i_systable:
?S: This variable conditionally defines the I_SYS_TABLE symbol, and
?S: indicates whether a C program should include <sys/table.h>.
?S:.
?C:I_SYS_TABLE:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/table.h> for the OSF/1 table() system call.
?C:.
?H:#$i_systable
 I_SYS_TABLE  /**/
?H:.
?LINT:set i_systable
: see if this is an OSF sys/table system
set sys/table.h i_systable
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_systable.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: yacc.U,v 3.0.1.1 1994/05/13 15:28:48 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: yacc.U,v $
?RCS: Revision 3.0.1.1  1994/05/13  15:28:48  ram
?RCS: patch27: added byacc as another alternative (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:10:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:yacc yaccflags: Guess Myread Oldconfig byacc bison cat test _exe
?MAKE: -pick add $@ %<
?S:yacc:
```

```
?S: This variable holds the name of the compiler compiler we
?S: want to use in the Makefile. It can be yacc, byacc, or bison -y.
?S:.
?S:yaccflags:
?S: This
 variable contains any additional yacc flags desired by the
?S: user.  It is up to the Makefile to use this.
?S:.
?T:comp
: determine compiler compiler
case "$yacc" in
")
 dflt=yacc;;
*)
 dflt="$yacc";;
esac
echo " "
comp='yacc'
if $test -f "$byacc$_exe"; then
 dflt="$byacc"
 comp="byacc or $comp"
fi
if $test -f "$bison$_exe"; then
 comp="$comp or bison -y"
fi
rp="Which compiler compiler ($comp) shall I use?"
. ./myread
yacc="$ans"
case "$yacc" in
*bis*)
 case "$yacc" in
 *-y*) ;;
 *)
  yacc="$yacc -y"
  echo "(Adding -y option to bison to get yacc-compatible behavior.)"
  ;;
 esac
 ;;
esac

@if yaccflags
: see if we need extra yacc flags
dflt="$yaccflags"
case "$dflt" in
") dflt=none;;
esac
$cat <<EOH
```

```
Your yacc program may need extra flags to normally process the parser sources.
Do NOT specify any -d or -v flags here, since those are explicitly known
by the various Makefiles. However, if your machine has strange/undocumented
options (like -Sr# on SCO to specify the
 maximum number of grammar rules), then
please add them here.  To use no flags, specify the word "none".

EOH
rp="Any additional yacc flags?"
. ./myread
case "$ans" in
none) yaccflags="";;
*) yaccflags="$ans";;
esac

@end
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/yacc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_class: Inlibc
?MAKE: -pick add $@ %<
?S:d_class:
?S: This variable conditionally defines the HAS_CLASS symbol, which
?S: indicates to the C program that the class() routine is available.
?S:.
?C:HAS_CLASS:
?C: This symbol, if defined, indicates that the class routine is
?C: available to classify doubles.  Available for example in AIX.
?C: The returned values are defined in <float.h> and are:
?C:
?C: FP_PLUS_NORM Positive normalized, nonzero
?C: FP_MINUS_NORM Negative normalized, nonzero
?C: FP_PLUS_DENORM Positive denormalized, nonzero
?C: FP_MINUS_DENORM Negative denormalized, nonzero
?C: FP_PLUS_ZERO +0.0
?C: FP_MINUS_ZERO -0.0
?C: FP_PLUS_INF +INF
?C: FP_MINUS_INF -INF
```

```
?C: FP_NANS  Signaling
 Not a Number (NaNS)
?C: FP_NANQ  Quiet Not a Number (NaNQ)
?C:.
?H:#$d_class HAS_CLASS  /**/
?H:.
?LINT:set d_class
: see if class exists
set class d_class
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_class.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_systimes.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_systimes.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_systimes: Inhdr
?MAKE: -pick add $@ %<
?S:i_systimes:
?S: This variable conditionally defines the I_SYS_TIMES symbol, and indicates
?S: whether a C program should include <sys/times.h>.
?S:.
?C:I_SYS_TIMES (I_SYSTIMES):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/times.h>.
?C:.
?H:#$i_systimes I_SYS_TIMES  /**/
?H:.
?LINT:set
 i_systimes
: see if this is a sys/times.h system
set sys/times.h i_systimes
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_systimes.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpagsz.U,v 3.0.1.1 1994/10/29 16:13:10 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_getpagsz.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:13:10  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getpagsz: Compile Oldconfig Myread Inlibc Findhdr
?MAKE: -pick add $@ %<
?S:d_getpagsz:
?S: This variable conditionally defines HAS_GETPAGESIZE if getpagesize()
?S: is available to get the system page size.
?S:.
?C:HAS_GETPAGESIZE
 (GETPAGESIZE):
?C: This symbol, if defined, indicates that the getpagesize system call
?C: is available to get system page size, which is the granularity of
?C: many memory management calls.
?C:.
?H:#$d_getpagsz HAS_GETPAGESIZE  /**/
?H:.
?LINT:set d_getpagsz
: see if getpagesize exists
set getpagesize d_getpagsz
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_getpagsz.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: intsize.U,v 3.0.1.2 1997/02/28 15:55:26 ram Exp $
?RCS:
```

```
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: intsize.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:55:26  ram
?RCS: patch61: avoid prompting the user if the test runs ok
?RCS: patch61: moved code from longsize.U into there
?RCS: patch61: new tests for shortsize as well
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:21:06  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:intsize longsize
 shortsize: Compile Myread cat run i_stdlib rm_try
?MAKE: -pick add $@ %<
?S:intsize:
?S: This variable contains the value of the INTSIZE symbol, which
?S: indicates to the C program how many bytes there are in an int.
?S:.
?S:longsize:
?S: This variable contains the value of the LONGSIZE symbol, which
?S: indicates to the C program how many bytes there are in a long.
?S:.
?S:shortsize:
?S: This variable contains the value of the SHORTSIZE symbol which
?S: indicates to the C program how many bytes there are in a short.
?S:.
?C:INTSIZE:
?C: This symbol contains the value of sizeof(int) so that the C
?C: preprocessor can make decisions based on it.
?C:.
?C:LONGSIZE:
?C: This symbol contains the value of sizeof(long) so that the C
?C: preprocessor can make decisions based on it.
?C:.
?C:SHORTSIZE:
?C: This symbol contains the value of sizeof(short) so that the C
?C: preprocessor can make decisions based on it.
?C:.
?H:#define INTSIZE $intsize  /**/
```

```
?H:#define LONGSIZE $longsize  /**/
?H:#define
 SHORTSIZE $shortsize  /**/
?H:.
?F:!try
: check for lengths of integral types
echo " "
case "$intsize" in
")
 echo "Checking to see how big your integers are..." >&4
 $cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
{
@if INTSIZE || intsize
 printf("intsize=%d;\n", (int)sizeof(int));
@end
@if LONGSIZE || longsize
 printf("longsize=%d;\n", (int)sizeof(long));
@end
@if SHORTSIZE || shortsize
 printf("shortsize=%d;\n", (int)sizeof(short));
@end
 exit(0);
}
EOCP
 set try
 if eval $compile_ok && $run ./try > /dev/null; then
  eval `$run ./try`
@if INTSIZE || intsize
  echo "Your integers are $intsize bytes long."
@end
@if LONGSIZE || longsize
  echo "Your long integers are $longsize bytes long."
@end
@if SHORTSIZE || shortsize
  echo "Your short integers are $shortsize bytes long."
@end
 else
  $cat >&4 <<EOM
!
Help! I can't compile and run the intsize test program: please enlighten me!
(This is probably a misconfiguration
```

```
 in your system or libraries, and
you really ought to fix it.  Still, I'll try anyway.)
!
EOM
@if INTSIZE || intsize
  dflt=4
  rp="What is the size of an integer (in bytes)?"
  . ./myread
  intsize="$ans"
@end
@if LONGSIZE || longsize
  dflt=$intsize
  rp="What is the size of a long integer (in bytes)?"
  . ./myread
  longsize="$ans"
@end
@if SHORTSIZE || shortsize
  dflt=2
  rp="What is the size of a short integer (in bytes)?"
  . ./myread
  shortsize="$ans"
@end
 fi
 ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/a_dvisory/intsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Whoa.U,v 3.0.1.2 1997/02/28 15:21:21 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Whoa.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:21:21  ram
?RCS: patch61: whoa script now starts with leading "startsh"
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:02:01  ram
?RCS: patch36: added ?F: line for metalint file checking
```

```
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to warn the user in case a change into a variable
 is noticed.
?X:
?X: To use this unit, $was must hold the old value that has changed. Upon
?X: exit, the two variables $td and $tu are set to the correct value for
?X: respectively defining or undefining a variable. For instance, if $vas was
?X: $undef, but now $var is $define, after calling . whoa, you should use
?X: eval "$var=\$tu" to finally set $var to the correct value. See unit Inlibc.
?X:
?MAKE:Whoa: Myread startsh hint
?MAKE: -pick add $@ %<
?F:./whoa
?T:var was td tu hintfile
: set up the script used to warn in case of inconsistency
cat <<EOS >whoa
$startsh
EOS
cat <<'EOSC' >>whoa
dflt=y
case "$hint" in
   recommended)
 case "$hintfile" in
 ") echo "The $hint value for \$$var on this machine was \"$was\"!" >&4
  ;;
 *) echo "Hmm.  Based on the hints in hints/$hintfile.sh, " >&4
  echo "the $hint value for \$$var on this machine was \"$was\"!" >&4
  ;;
 esac
 ;;
   *) echo " "
 echo "*** WHOA THERE!!! ***" >&4
 echo "    The $hint value for \$$var on this machine was
 \"$was\"!" >&4
 ;;
esac
rp="    Keep the $hint value?"
. ./myread
case "$ans" in
y) td=$was; tu=$was;;
esac
EOSC
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Whoa.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strdup.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strdup.U,v $
?RCS: Revision 3.0.1.1  1993/12/15  08:21:41  ram
?RCS: patch15: created
?RCS:
?MAKE:d_strdup: Inlibc
?MAKE: -pick add $@ %<
?S:d_strdup:
?S: This variable conditionally defines HAS_STRDUP if strdup() is
?S: available to duplicate strings in memory.
?S:.
?C:HAS_STRDUP:
?C: This symbol, if defined, indicates that the strdup routine is
?C: available to duplicate strings in memory. Otherwise, roll up
?C: your own...
?C:.
?H:#$d_strdup HAS_STRDUP  /**/
?H:.
?LINT:set
 d_strdup
: see if strdup exists
set strdup d_strdup
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strdup.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fpos64_t: \
 Inlibc Setvar Compile rm_try cat fpossize
?MAKE: -pick add $@ %<
?S:d_fpos64_t:
?S: This symbol will be defined if the C compiler supports fpos64_t.
?S:.
?C:HAS_FPOS64_T:
?C: This symbol will be defined if the C compiler supports fpos64_t.
?C:.
?H:#$d_fpos64_t HAS_FPOS64_T /**/
?H:.
?LINT:set d_fpos64_t
: check for fpos64_t
echo " "
echo "Checking to see if you have fpos64_t..." >&4
$cat >try.c <<EOCP
#include <stdio.h>
int main() { fpos64_t x = 7; }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have fpos64_t."
else
 val="$undef"
 echo "You do not have fpos64_t."
 case "$fpossize" in
 8) echo "(Your fpos_t is 64 bits, so you could use that.)" ;;
 esac
fi
$rm_try
set
 d_fpos64_t
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fpos64_t.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
?MAKE:d_getmnt: Inlibc
?MAKE: -pick add $@ %<
?S:d_getmnt:
?S: This variable conditionally defines the HAS_GETMNT symbol, which
?S: indicates to the C program that the getmnt() routine is available
?S: to retrieve one or more mount info blocks by filename.
?S:.
?C:HAS_GETMNT:
?C: This symbol, if defined, indicates that the getmnt routine is
?C: available to get filesystem mount info by filename.
?C:.
?H:#$d_getmnt HAS_GETMNT  /**/
?H:.
?LINT:set d_getmnt
: see if getmnt exists
set getmnt d_getmnt
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_getmnt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_stdstdio.U,v 3.0.1.3 1997/02/28 15:46:32 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Tye McQueen <tye@metronet.com>
?RCS:
?RCS: $Log: d_stdstdio.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:46:32  ram
?RCS: patch61: merged with perl5's unit
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  14:06:54  ram
?RCS: patch56: typo fix on ?C: line for FILE_bufsiz
?RCS: patch56: fixed unbalanced parenthesis (ADO)
?RCS: patch56: check whether FILE_cnt and FILE_ptr can be assigned to (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1995/05/12  12:12:11  ram
?RCS:
```

```
 patch54: complete rewrite by Tye McQueen to fit modern systems
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_stdstdio d_stdiobase stdio_ptr stdio_cnt \
 d_stdio_ptr_lval_sets_cnt d_stdio_ptr_lval_nochange_cnt stdio_base \
 stdio_bufsiz d_stdio_cnt_lval d_stdio_ptr_lval stdio_filbuf: cat \
 Compile contains rm_try d_gnulibc gnulibc_version i_stdlib \
 Setvar Findhdr Oldconfig run to
?MAKE: -pick weed $@ %<
?S:d_stdstdio:
?S: This variable conditionally defines USE_STDIO_PTR if this system
?S: has a FILE structure declaring usable _ptr and _cnt fields (or
?S: equivalent) in stdio.h.
?S:.
?S:stdio_ptr:
?S: This variable defines how, given a FILE pointer, fp, to access the
?S: _ptr field (or equivalent) of stdio.h's FILE structure.  This will
?S: be used to define the macro FILE_ptr(fp).
?S:.
?S:d_stdio_ptr_lval:
?S: This variable conditionally defines STDIO_PTR_LVALUE if the
?S: FILE_ptr macro can be used as an lvalue.
?S:.
?S:stdio_cnt:
?S: This
 variable defines how, given a FILE pointer, fp, to access the
?S: _cnt field (or equivalent) of stdio.h's FILE structure.  This will
?S: be used to define the macro FILE_cnt(fp).
?S:.
?S:d_stdio_cnt_lval:
?S: This variable conditionally defines STDIO_CNT_LVALUE if the
?S: FILE_cnt macro can be used as an lvalue.
?S:.
?S:d_stdio_ptr_lval_sets_cnt:
?S: This symbol is defined if using the FILE_ptr macro as an lvalue
?S: to increase the pointer by n has the side effect of decreasing the
?S: value of File_cnt(fp) by n.
?S:.
?S:d_stdio_ptr_lval_nochange_cnt:
?S: This symbol is defined if using the FILE_ptr macro as an lvalue
?S: to increase the pointer by n leaves File_cnt(fp) unchanged.
?S:.
?S:stdio_filbuf:
?S: This variable defines how, given a FILE pointer, fp, to tell
?S: stdio to refill its internal buffers (?).  This will
?S: be used to define the macro FILE_filbuf(fp).
```

```
?S:.
?S:d_stdiobase:
?S: This variable conditionally defines USE_STDIO_BASE if this system
?S: has
 a FILE structure declaring a usable _base field (or equivalent)
?S: in stdio.h.
?S:.
?S:stdio_base:
?S: This variable defines how, given a FILE pointer, fp, to access the
?S: _base field (or equivalent) of stdio.h's FILE structure.  This will
?S: be used to define the macro FILE_base(fp).
?S:.
?S:stdio_bufsiz:
?S: This variable defines how, given a FILE pointer, fp, to determine
?S: the number of bytes store in the I/O buffer pointer to by the
?S: _base field (or equivalent) of stdio.h's FILE structure.  This will
?S: be used to define the macro FILE_bufsiz(fp).
?S:.
?C:USE_STDIO_PTR ~ d_stdstdio (USE_STD_STDIO STDSTDIO):
?C: This symbol is defined if the _ptr and _cnt fields (or similar)
?C: of the stdio FILE structure can be used to access the stdio buffer
?C: for a file handle.  If this is defined, then the FILE_ptr(fp)
?C: and FILE_cnt(fp) macros will also be defined and should be used
?C: to access these fields.
?C:.
?C:FILE_ptr:
?C: This macro is used to access the _ptr
 field (or equivalent) of the
?C: FILE structure pointed to by its argument. This macro will always be
?C: defined if USE_STDIO_PTR is defined.
?C:.
?C:STDIO_PTR_LVALUE:
?C: This symbol is defined if the FILE_ptr macro can be used as an
?C: lvalue.
?C:.
?C:FILE_cnt:
?C: This macro is used to access the _cnt field (or equivalent) of the
?C: FILE structure pointed to by its argument. This macro will always be
?C: defined if USE_STDIO_PTR is defined.
?C:.
?C:STDIO_CNT_LVALUE:
?C: This symbol is defined if the FILE_cnt macro can be used as an
?C: lvalue.
?C:.
?C:STDIO_PTR_LVAL_SETS_CNT:
?C: This symbol is defined if using the FILE_ptr macro as an lvalue
?C: to increase the pointer by n has the side effect of decreasing the
?C: value of File_cnt(fp) by n.
```

```
?C:.
?C:STDIO_PTR_LVAL_NOCHANGE_CNT:
?C: This symbol is defined if using the FILE_ptr macro as an lvalue
?C: to increase the pointer by n leaves File_cnt(fp) unchanged.
?C:.
?C:FILE_filbuf:
?C: This macro is used to access the internal stdio
 _filbuf function
?C: (or equivalent), if STDIO_CNT_LVALUE and STDIO_PTR_LVALUE
?C: are defined.  It is typically either _filbuf or __filbuf.
?C: This macro will only be defined if both STDIO_CNT_LVALUE and
?C: STDIO_PTR_LVALUE are defined.
?C:.
?H:?d_stdstdio:#$d_stdstdio USE_STDIO_PTR /**/
?H:?d_stdstdio:#ifdef USE_STDIO_PTR
?H:#define FILE_ptr(fp) $stdio_ptr
?H:#$d_stdio_ptr_lval STDIO_PTR_LVALUE  /**/
?H:#define FILE_cnt(fp) $stdio_cnt
?H:#$d_stdio_cnt_lval STDIO_CNT_LVALUE  /**/
?H:#$d_stdio_ptr_lval_sets_cnt STDIO_PTR_LVAL_SETS_CNT /**/
?H:#$d_stdio_ptr_lval_nochange_cnt STDIO_PTR_LVAL_NOCHANGE_CNT /**/
?H:?FILE_filbuf:#if defined(STDIO_PTR_LVALUE) && defined(STDIO_CNT_LVALUE)
?H:?FILE_filbuf:#define FILE_filbuf(fp) $stdio_filbuf  /**/
?H:?FILE_filbuf:#endif
?H:?d_stdstdio:#endif
?H:.
?W:d_stdstdio:FILE_ptr FILE_cnt FILE_filbuf
?C:USE_STDIO_BASE ~ d_stdiobase:
?C: This symbol is defined if the _base field (or similar) of the
?C: stdio FILE structure can be used to access the
 stdio buffer for
?C: a file handle.  If this is defined, then the FILE_base(fp) macro
?C: will also be defined and should be used to access this field.
?C: Also, the FILE_bufsiz(fp) macro will be defined and should be used
?C: to determine the number of bytes in the buffer.  USE_STDIO_BASE
?C: will never be defined unless USE_STDIO_PTR is.
?C:.
?C:FILE_base:
?C: This macro is used to access the _base field (or equivalent) of the
?C: FILE structure pointed to by its argument. This macro will always be
?C: defined if USE_STDIO_BASE is defined.
?C:.
?C:FILE_bufsiz:
?C: This macro is used to determine the number of bytes in the I/O
?C: buffer pointed to by _base field (or equivalent) of the FILE
?C: structure pointed to its argument. This macro will always be defined
?C: if USE_STDIO_BASE is defined.
?C:.
```

```
?H:?d_stdiobase:#$d_stdiobase USE_STDIO_BASE /**/
?H:?d_stdiobase:#ifdef USE_STDIO_BASE
?H:#define FILE_base(fp) $stdio_base
?H:#define FILE_bufsiz(fp) $stdio_bufsiz
?H:?d_stdiobase:#endif
?H:.
?W:d_stdiobase:FILE_base
 FILE_bufsiz
?T:ptr_lval cnt_lval filbuf xxx
?F:!try
?LINT:set d_stdstdio d_stdiobase
: see if _ptr and _cnt from stdio act std
echo " "

if $contains '_lbfsize' `./findhdr stdio.h` >/dev/null 2>&1 ; then
 echo "(Looks like you have stdio.h from BSD.)"
 case "$stdio_ptr" in
 '') stdio_ptr='((fp)->_p)'
  ptr_lval=$define
  ;;
 *) ptr_lval=$d_stdio_ptr_lval;;
 esac
 case "$stdio_cnt" in
 '') stdio_cnt='((fp)->_r)'
  cnt_lval=$define
  ;;
 *) cnt_lval=$d_stdio_cnt_lval;;
 esac
 case "$stdio_base" in
 '') stdio_base='((fp)->_ub._base ? (fp)->_ub._base : (fp)->_bf._base)';;
 esac
 case "$stdio_bufsiz" in
 '') stdio_bufsiz='((fp)->_ub._base ? (fp)->_ub._size : (fp)->_bf._size)';;
 esac
elif $contains '_IO_fpos_t' `./findhdr stdio.h` `./findhdr libio.h` >/dev/null 2>&1 ; then
 echo "(Looks like you have stdio.h from Linux.)"
 case "$stdio_ptr" in
 '') stdio_ptr='((fp)->_IO_read_ptr)'
  ptr_lval=$define
  ;;
 *) ptr_lval=$d_stdio_ptr_lval;;
 esac
 case "$stdio_cnt"
 in
 '') stdio_cnt='((fp)->_IO_read_end - (fp)->_IO_read_ptr)'
  cnt_lval=$undef
  ;;
 *) cnt_lval=$d_stdio_cnt_lval;;
```

```
 esac
 case "$stdio_base" in
 ") stdio_base='((fp)->_IO_read_base)';;
 esac
 case "$stdio_bufsiz" in
 ") stdio_bufsiz='((fp)->_IO_read_end - (fp)->_IO_read_base)';;
 esac
else
 case "$stdio_ptr" in
 ") stdio_ptr='((fp)->_ptr)'
  ptr_lval=$define
  ;;
 *) ptr_lval=$d_stdio_ptr_lval;;
 esac
 case "$stdio_cnt" in
 ") stdio_cnt='((fp)->_cnt)'
  cnt_lval=$define
  ;;
 *) cnt_lval=$d_stdio_cnt_lval;;
 esac
 case "$stdio_base" in
 ") stdio_base='((fp)->_base)';;
 esac
 case "$stdio_bufsiz" in
 ") stdio_bufsiz='((fp)->_cnt + (fp)->_ptr - (fp)->_base)';;
 esac
fi

: test whether _ptr and _cnt really work
echo "Checking how std your stdio is..." >&4
$cat >try.c <<EOP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#define FILE_ptr(fp) $stdio_ptr
#define FILE_cnt(fp) $stdio_cnt
int main() {
 FILE *fp = fopen("try.c", "r");
 char c = getc(fp);
 if
 (
  18 <= FILE_cnt(fp) &&
  strncmp(FILE_ptr(fp), "include <stdio.h>\n", 18) == 0
 )
  exit(0);
 exit(1);
```

```
}
EOP
val="$undef"
set try
if eval $compile && $to try.c; then
 if $run ./try; then
  echo "Your stdio acts pretty std."
  val="$define"
 else
  echo "Your stdio isn't very std."
 fi
else
 echo "Your stdio doesn't appear very std."
fi
$rm_try

# glibc 2.2.90 and above apparently change stdio streams so Perl's
# direct buffer manipulation no longer works.  The Configure tests
# should be changed to correctly detect this, but until then,
# the following check should at least let perl compile and run.
# (This quick fix should be updated before 5.8.1.)
# To be defensive, reject all unknown versions, and all versions  > 2.2.9.
# A. Dougherty, June 3, 2002.
case "$d_gnulibc" in
$define)
 case "$gnulibc_version" in
 2.[01]*)  ;;
 2.2) ;;
 2.2.[0-9]) ;;
 *)  echo "But I will not snoop inside glibc $gnulibc_version stdio buffers."
  val="$undef"
  ;;
 esac
 ;;
esac
set d_stdstdio
eval
 $setvar

@if STDIO_PTR_LVALUE || d_stdio_ptr_lval
: Can _ptr be used as an lvalue?
?X: Only makes sense if we have a known stdio implementation.
case "$d_stdstdio$ptr_lval" in
$define$define) val=$define ;;
*) val=$undef ;;
esac
set d_stdio_ptr_lval
eval $setvar
```

```
@end

@if STDIO_CNT_LVALUE || d_stdio_cnt_lval
: Can _cnt be used as an lvalue?
?X: Only makes sense if we have a known stdio implementation.
case "$d_stdstdio$cnt_lval" in
$define$define) val=$define ;;
*) val=$undef ;;
esac
set d_stdio_cnt_lval
eval $setvar
@end

@if FILE_filbuf
: How to access the stdio _filbuf or __filbuf function.
: If this fails, check how the getc macro in stdio.h works.
case "${d_stdio_ptr_lval}${d_stdio_cnt_lval}" in
${define}${define})
 : Try $hint value, if any, then _filbuf, __filbuf, _fill, then punt.
 : _fill is for os/2.
 xxx='notok'
 for filbuf in $stdio_filbuf '_filbuf(fp)' '__filbuf(fp) ' '_fill(fp)' ; do
  $cat >try.c <<EOP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#define
 FILE_ptr(fp) $stdio_ptr
#define FILE_cnt(fp) $stdio_cnt
#define FILE_filbuf(fp) $filbuf
int main() {
 FILE *fp = fopen("try.c", "r");
 int c;
 c = getc(fp);
 c = FILE_filbuf(fp);  /* Just looking for linker errors.*/
 exit(0);
}
EOP
  set try
  if eval $compile && $to try.c && $run ./try; then
   echo "Your stdio appears to use $filbuf"
   stdio_filbuf="$filbuf"
   xxx='ok'
   break
  else
   echo "Hmm.  $filbuf doesn't seem to work."
```

```
  fi
  $rm_try
 done
 case "$xxx" in
 notok) echo "I can't figure out how to access _filbuf"
   echo "I'll just have to work around it."
   d_stdio_ptr_lval="$undef"
   d_stdio_cnt_lval="$undef"
   ;;
 esac
 ;;
esac
@end

@if STDIO_PTR_LVALUE
: test whether setting _ptr sets _cnt as a side effect
d_stdio_ptr_lval_sets_cnt="$undef"
d_stdio_ptr_lval_nochange_cnt="$undef"
case "$d_stdio_ptr_lval$d_stdstdio" in
$define$define)
 echo "Checking to see what happens if we set the stdio ptr..." >&4
$cat >try.c <<EOP
#include <stdio.h>
/* Can
 we scream? */
/* Eat dust sed :-) */
/* In the buffer space, no one can hear you scream. */
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#define FILE_ptr(fp) $stdio_ptr
#define FILE_cnt(fp) $stdio_cnt
#include <sys/types.h>
int main() {
 FILE *fp = fopen("try.c", "r");
 int c;
 char *ptr;
 size_t cnt;
 if (!fp) {
     puts("Fail even to read");
     exit(1);
 }
 c = getc(fp); /* Read away the first # */
 if (c == EOF) {
     puts("Fail even to read");
     exit(1);
 }
```

```
if (!(
 18 <= FILE_cnt(fp) &&
 strncmp(FILE_ptr(fp), "include <stdio.h>\n", 18) == 0
)) {
 puts("Fail even to read");
 exit (1);
}
ptr = (char*) FILE_ptr(fp);
cnt = (size_t)FILE_cnt(fp);

FILE_ptr(fp) += 42;

if ((char*)FILE_ptr(fp) != (ptr + 42)) {
 printf("Fail ptr check %p != %p", FILE_ptr(fp), (ptr + 42));
 exit (1);
}
if (FILE_cnt(fp) <= 20) {
 printf ("Fail (<20 chars to test)");
 exit (1);
}
if (strncmp(FILE_ptr(fp), "Eat dust sed :-) */\n", 20) != 0) {
 puts("Fail compare");
 exit
(1);
}
if (cnt == FILE_cnt(fp)) {
 puts("Pass_unchanged");
 exit (0);
}
if (FILE_cnt(fp) == (cnt - 42)) {
 puts("Pass_changed");
 exit (0);
}
printf("Fail count was %d now %d\n", cnt, FILE_cnt(fp));
return 1;

}
EOP
 set try
 if eval $compile && $to try.c; then
  case `$run ./try` in
  Pass_changed)
   echo "Increasing ptr in your stdio decreases cnt by the same amount.  Good." >&4
   d_stdio_ptr_lval_sets_cnt="$define" ;;
  Pass_unchanged)
   echo "Increasing ptr in your stdio leaves cnt unchanged.  Good." >&4
   d_stdio_ptr_lval_nochange_cnt="$define" ;;
  Fail*)
```

```
  echo "Increasing ptr in your stdio didn't do exactly what I expected.  We'll not be doing that then." >&4 ;;
 *)
  echo "It appears attempting to set ptr in your stdio is a bad plan." >&4 ;;
esac
else
 echo "It seems we can't set ptr in your stdio.  Nevermind." >&4
fi
$rm_try
;;
esac
@end

@if d_stdiobase || USE_STDIO_BASE || FILE_base || FILE_bufsiz
: see if _base is also standard
val="$undef"
case
 "$d_stdstdio" in
$define)
 $cat >try.c <<EOP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#define FILE_base(fp) $stdio_base
#define FILE_bufsiz(fp) $stdio_bufsiz
int main() {
 FILE *fp = fopen("try.c", "r");
 char c = getc(fp);
 if (
  19 <= FILE_bufsiz(fp) &&
  strncmp(FILE_base(fp), "#include <stdio.h>\n", 19) == 0
 )
  exit(0);
 exit(1);
}
EOP
 set try
 if eval $compile && $to try.c; then
  if $run ./try; then
   echo "And its _base field acts std."
   val="$define"
  else
   echo "But its _base field isn't std."
  fi
 else
  echo "However, it seems to be lacking the _base field."
 fi
```

```
 $rm_try
 ;;
esac
set d_stdiobase
eval $setvar

@end
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_stdstdio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_shmget.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_shmget.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:20  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_shmget: Inlibc
?MAKE: -pick add $@ %<
?S:d_shmget:
?S: This variable conditionally defines the HAS_SHMGET symbol, which
?S: indicates to the C program that the shmget() routine is available.
?S:.
?C:HAS_SHMGET:
?C: This symbol, if defined, indicates that the shmget() routine is
?C: available to request a shared memory segment from
 the kernel.
?C:.
?H:#$d_shmget HAS_SHMGET  /**/
?H:.
?LINT:set d_shmget
: see if shmget exists
set shmget d_shmget
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_shmget.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strxfrm_l.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_strxfrm_l.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:12:04  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_strxfrm_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_strxfrm_l:
?S: This variable conditionally defines HAS_STRXFRM_L if strxfrm_l() is
?S: available to transform strings.
?S:.
?C:HAS_STRXFRM_L:
?C: This symbol, if defined, indicates that the strxfrm_l() routine is
?C: available
 to transform strings.
?C:.
?H:#$d_strxfrm_l HAS_STRXFRM_L /**/
?H:.
?LINT:set d_strxfrm_l
: see if strxfrm_l exists
set strxfrm_l d_strxfrm_l
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strxfrm_l.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_internet.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_internet.U,v $
?RCS: Revision 3.0.1.1  1993/09/13  16:02:04  ram
?RCS: patch10: most mailers support Internet addresses nowadays (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_internet: Myread Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_internet:
?S: This variable conditionally defines the INTERNET symbol, which
?S: indicates to the C program that there is a mailer available
 which
?S: supports internet-style addresses (user@site.domain).
?S:.
?C:INTERNET:
?C: This symbol, if defined, indicates that there is a mailer available
?C: which supports internet-style addresses (user@site.domain).
?C:.
?H:#$d_internet INTERNET /**/
?H:.
?LINT:set d_internet
: check for internet mailer
dflt=y
case "$d_internet" in
"$undef") dflt=n;;
esac
cat <<EOM

Most mailers can deliver mail to addresses of the INTERNET persuasion,
such as user@host.edu.  Some older mailers, however, require the complete
path to the destination to be specified in the address.

EOM
rp="Does your mailer understand INTERNET addresses?"
. ./myread
case "$ans" in
y*) val="$define";;
*)  val="$undef";;
esac
set d_internet
eval $setvar

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
```

5.36.0/dist/U/d_internet.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2008 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_timegm: Inlibc
?MAKE: -pick add $@ %<
?S:d_timegm:
?S: This variable conditionally defines the HAS_TIMEGM symbol, which
?S: indicates to the C program that the timegm () routine is available.
?S:.
?C:HAS_TIMEGM:
?C: This symbol, if defined, indicates that the timegm routine is
?C: available to do the opposite of gmtime ()
?C:.
?H:#$d_timegm HAS_TIMEGM  /**/
?H:.
?LINT:set d_timegm
: see if timegm exists
set timegm d_timegm
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_timegm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_memset.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memset.U,v $
?RCS: Revision 3.0.1.1  1993/09/13  16:03:11  ram
?RCS: patch10: removed text recommending bzero over memset (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:36  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?MAKE:d_memset: Inlibc
?MAKE: -pick add $@ %<
?S:d_memset:
?S: This variable conditionally defines the HAS_MEMSET symbol, which
?S: indicates to the C program that the memset() routine is available
?S: to set blocks of memory.
?S:.
?C:HAS_MEMSET
 (MEMSET):
?C: This symbol, if defined, indicates that the memset routine is available
?C: to set blocks of memory.
?C:.
?H:#$d_memset HAS_MEMSET /**/
?H:.
?LINT:set d_memset
: see if memset exists
set memset d_memset
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_memset.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_varhdr.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:54:42  ram
?RCS: patch61: varargs script now starts with leading "startsh"
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:21:02  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/13  15:26:05  ram
?RCS: patch27: this unit now supersedes old i_stdarg.U and i_varargs.U
?RCS: patch27: modified to avoid spurious Whoa warnings (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:49  ram
?RCS: Baseline for
```

```
 dist 3.0 netwide release.
?RCS:
?MAKE:i_stdarg i_varargs i_varhdr: cat +cc +ccflags rm test Setvar \
 Findhdr Warn startsh _o
?MAKE: -pick add $@ %<
?S:i_stdarg:
?S: This variable conditionally defines the I_STDARG symbol, which
?S: indicates to the C program that <stdarg.h> exists and should
?S: be included.
?S:.
?S:i_varargs:
?S: This variable conditionally defines I_VARARGS, which indicates
?S: to the C program that it should include <varargs.h>.
?S:.
?S:i_varhdr:
?S: Contains the name of the header to be included to get va_dcl definition.
?S: Typically one of varargs.h or stdarg.h.
?S:.
?C:I_STDARG:
?C: This symbol, if defined, indicates that <stdarg.h> exists and should
?C: be included.
?C:.
?C:I_VARARGS:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <varargs.h>.
?C:.
?H:#$i_stdarg I_STDARG  /**/
?H:#$i_varargs I_VARARGS /**/
?H:.
?W:%<:va_dcl
?F:!varargs
?T:valstd
?LINT:set i_stdarg i_varargs
?X:
?X: Don't use setvar because the varags test
 below might override these.
?X: Actually, the messages here are just informative. We don't wish to set
?X: i_varargs or i_stdarg to their final value before knowing which of the
?X: two we'll include.
?X:
: see if stdarg is available
echo " "
if $test `./findhdr stdarg.h`; then
 echo "<stdarg.h> found." >&4
 valstd="$define"
else
 echo "<stdarg.h> NOT found." >&4
 valstd="$undef"
```

```
fi

: see if varags is available
echo " "
if $test `./findhdr varargs.h`; then
 echo "<varargs.h> found." >&4
else
 echo "<varargs.h> NOT found, but that's ok (I hope)." >&4
fi

?X:
?X: if you have stdarg.h, you need to support prototypes to actually use it;
?X: but if stdarg.h exists and the compiler doesn't support prototypes (for some
?X: bizarre reason), we'll fall back to varargs.h anyway so it's not so bad.
?X:
: set up the varargs testing programs
$cat > varargs.c <<EOP
#ifdef I_STDARG
#include <stdarg.h>
#endif
#ifdef I_VARARGS
#include <varargs.h>
#endif

#ifdef I_STDARG
int f(char *p, ...)
#else
int
 f(va_alist)
va_dcl
#endif
{
 va_list ap;
#ifndef I_STDARG
 char *p;
#endif
#ifdef I_STDARG
 va_start(ap,p);
#else
 va_start(ap);
 p = va_arg(ap, char *);
#endif
 va_end(ap);
}
EOP
$cat > varargs <<EOP
$startsh
if $cc -c $ccflags -D\$1 varargs.c >/dev/null 2>&1; then
```

```
 echo "true"
else
 echo "false"
fi
$rm -f varargs$_o
EOP
chmod +x varargs

: now check which varargs header should be included
echo " "
i_varhdr=''
case "$valstd" in
"$define")
 if `./varargs I_STDARG`; then
  val='stdarg.h'
 elif `./varargs I_VARARGS`; then
  val='varargs.h'
 fi
 ;;
*)
 if `./varargs I_VARARGS`; then
  val='varargs.h'
 fi
 ;;
esac
case "$val" in
'')
 ./warn "I could not find the definition for va_dcl... You have problems..."
 val="$undef"; set i_stdarg; eval $setvar
 val="$undef"; set i_varargs; eval $setvar
 ;;
*)
 set i_varhdr
 eval $setvar
 case "$i_varhdr" in
 stdarg.h)
  val="$define"; set i_stdarg; eval $setvar
  val="$undef"; set i_varargs; eval $setvar
  ;;
 varargs.h)
  val="$undef"; set i_stdarg;
 eval $setvar
  val="$define"; set i_varargs; eval $setvar
  ;;
 esac
 echo "We'll include <$i_varhdr> to get va_dcl definition." >&4;;
esac
$rm -f varargs*
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_varhdr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: prefshell.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: prefshell.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:28:13  ram
?RCS: patch36: added SHELL temporary since metalint now sees ${SHELL}
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:11:47  ram
?RCS: patch10: non-portable var substitution was used (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:34  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:prefshell: cat package Getfile Oldconfig ksh csh bash
?MAKE: -pick add $@ %<
?S:prefshell:
?S: This
 variable contains the eventual value of the PREFSHELL symbol,
?S: which contains the full name of the preferred user shell on this
?S: system.  Usual values are /bin/csh, /bin/ksh, /bin/sh.
?S:.
?C:PREFSHELL:
?C: This symbol contains the full name of the preferred user shell on this
?C: system.  Usual values are /bin/csh, /bin/ksh, /bin/sh.
?C:.
?H:#define PREFSHELL "$prefshell"  /**/
?H:.
?T:SHELL
: find out which shell people like to use most
case "$prefshell" in
")
 case "$ksh $bash $csh" in
 */ksh*) dflt="$ksh" ;;
 */bash*) dflt="$bash" ;;
 */csh*) dflt="$csh" ;;
```

```
 *) dflt='/bin/sh' ;;
 esac
 ;;
*)  dflt="$prefshell";;
esac
?X: Some shells (Ultrix) do not understand ${SHELL:-/bin/sh}, sigh!
$cat <<EOM

Give the full path name of the shell most people like to use on your system.
This will be used by $package whenever the user wants to get a shell
escape (for instance) and is not necessarily the same as the shell you are
currently using (${SHELL-/bin/sh}).

EOM
fn=f/~
rp='Preferred
 shell to be used?'
. ./getfile
prefshell=$ans
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/prefshell.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Head.U,v $
?RCS: Revision 3.0.1.9  1997/02/28  15:02:09  ram
?RCS: patch61: make sure we unset CDPATH for shells that support this
?RCS: patch61: improved Korn shell detection and handling
?RCS:
?RCS: Revision 3.0.1.8  1995/07/25  13:40:02  ram
?RCS: patch56: added SVR4-ish /opt directories to path list (ADO)
?RCS: patch56: OS/2 platforms are using another path separator
?RCS:
?RCS: Revision 3.0.1.7  1995/03/21  08:46:15  ram
?RCS: patch52: definition of paths wrongly added spurious ':' chars
?RCS:
?RCS:
```

```
 Revision 3.0.1.6  1994/10/29  15:54:19  ram
?RCS: patch36: make sure ENV is unset before calling /bin/ksh
?RCS:
?RCS: Revision 3.0.1.5  1994/08/29  16:03:44  ram
?RCS: patch32: now sets PATH only using existing directories
?RCS:
?RCS: Revision 3.0.1.4  1994/06/20  06:54:28  ram
?RCS: patch30: now computes its invocation name into 'me'
?RCS: patch30: symbol me is made visible to all units read-only
?RCS:
?RCS: Revision 3.0.1.3  1993/12/15  08:15:07  ram
?RCS: patch15: added /sbin:/usr/sbin:/usr/libexec in PATH for BSD/386
?RCS:
?RCS: Revision 3.0.1.2  1993/11/10  17:32:35  ram
?RCS: patch14: ensure PATH is reset to '.' before testing for alias
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:38:07  ram
?RCS: patch7: not all 'test' programs support the -x option
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This is the very first unit in the Configure script.  It is mostly just
?X: things to keep people from getting
 into a tizzy right off the bat.
?X:
?MAKE:Head:
?MAKE: -pick wipe $@ %<
?V:PATH p_ _exe me newsh
?T:argv Id p paths OS2_SHELL DJGPP
?T:inksh needksh avoidksh newsh changesh reason
?F:!*
?LINT:extern ENV CDPATH SHELL MACHTYPE
?LINT:change ENV CDPATH
?LINT:nocomment
#! /bin/sh
#
# If these # comments don't work, trim them. Don't worry about any other
# shell scripts, Configure will trim # comments from them for you.
#
# (If you are trying to port this package to a machine without sh,
# I would suggest you have a look at the prototypical config_h.SH file
# and edit it to reflect your system. Some packages may include samples
# of config.h for certain machines, so you might look for one of those.)
#
?X:
?X: NOTE THAT A CONFIGURE SCRIPT IS IN THE PUBLIC DOMAIN (whether or not
```

```
?X: the software which uses it is in the public domain).
?X:
# Yes, you may rip this off to use in other distribution packages. This
# script belongs to the public domain and cannot be copyrighted.
#
?X:
?X: WE ASK YOU
 NOT TO REMOVE OR ALTER THE FOLLOWING PARAGRAPH, PLEASE:
?X:
# Note: this Configure script was generated automatically. Rather than
# working with this copy of Configure, you may wish to get metaconfig.
# The dist package (which contains metaconfig) is available via SVN:
#     svn co https://svn.code.sf.net/p/dist/code/trunk/dist
?X:
?X: NOTA BENE:
?X: If you develop you own version of metaconfig based on this work,
?X: you have to add some comments telling that the script was generated
?X: by your version, not mine: It credits your work.
?X:

# $Id: Head.U 6 2006-08-25 22:21:46Z rmanfredi $
#
# Generated on <DATE> [metaconfig <VERSION> PL<PATCHLEVEL>]

cat >c1$$ <<EOF
ARGGGHHHH!!!!!

SCO csh still thinks true is false.  Write to SCO today and tell them that next
year Configure ought to "rm /bin/csh" unless they fix their blasted shell. :-)

(Actually, Configure ought to just patch csh in place.  Hmm.  Hmmmmm.  All
we'd have to do is go in and swap the && and || tokens, wherever they are.)

[End
 of diatribe. We now return you to your regularly scheduled programming...]
EOF
cat >c2$$ <<EOF

OOPS!  You naughty creature!  You didn't run Configure with sh!
I will attempt to remedy the situation by running sh for you...
EOF

true || cat c1$$ c2$$
true || exec sh $0 $argv:q

(exit $?0) || cat c2$$
(exit $?0) || exec sh $0 $argv:q
rm -f c1$$ c2$$
```

```
: compute my invocation name
me=$0
case "$0" in
*/*)
 me=`echo $0 | sed -e 's!.*/\(.*\)!\1!' 2>/dev/null`
 test "$me" || me=$0
 ;;
esac

?X:
?X: To be able to run under OS/2, we must detect that early enough to use
?X: the proper path separator, stored in $p_. It is : on UNIX and ; on
?X: DOSish systems such as OS/2.
?X:
: Proper separator for the PATH environment variable
p_=:
: On OS/2 this directory should exist if this is not floppy only system ":-]"
if test -d c:/. ; then
 if test -n "$OS2_SHELL"; then
  p_=\;
  PATH=`cmd /c "echo %PATH%" | tr '\\\\' / `
?X: That's a bug in ksh5.22
  OS2_SHELL=`cmd /c "echo %OS2_SHELL%" | tr
 '\\\\' / | tr '[A-Z]' '[a-z]'`
 elif test -n "$DJGPP"; then
  case "X${MACHTYPE:-nonesuchmach}" in
  *cygwin) ;;
  *) p_=\; ;;
  esac
 fi
fi

?X:
?X: There are two schools of thoughts here. Some people correctly argue that
?X: the user has a better chance than we do of setting a reasonable PATH and
?X: others argue that Configure is the best place there is to set up a suitable
?X: PATH. Well, here we try to compromize by keeping the user's PATH and
?X: appending some directories which are known to work on some machine or the
?X: other. The rationale behind this being that a novice user might not have a
?X: proper environment variable set, and some directories like /etc (where
?X: chown is located on some BSD systems) may be missing--RAM.
?X:
?X: SVR4 adds an /opt directory for optional packages.  Some sites use
?X: various permutations on /opt as opposed to /usr or /usr/local.-- ADO
?X:
?X: We only add directories that are not already in the PATH of the
?X: user and the directories must
```

```
 exist also.
?X:
: Proper PATH setting
paths='/bin /usr/bin /usr/local/bin /usr/ucb /usr/local /usr/lbin'
paths="$paths /opt/bin /opt/local/bin /opt/local /opt/lbin"
paths="$paths /usr/5bin /etc /usr/gnu/bin /usr/new /usr/new/bin /usr/nbin"
paths="$paths /opt/gnu/bin /opt/new /opt/new/bin /opt/nbin"
paths="$paths /sys5.3/bin /sys5.3/usr/bin /bsd4.3/bin /bsd4.3/usr/ucb"
paths="$paths /bsd4.3/usr/bin /usr/bsd /bsd43/bin /usr/ccs/bin"
paths="$paths /etc /usr/lib /usr/ucblib /lib /usr/ccs/lib"
paths="$paths /sbin /usr/sbin /usr/libexec"
paths="$paths /system/gnu_library/bin"

for p in $paths
do
 case "$p_$PATH$p_" in
 *$p_$p$p_*) ;;
 *) test -d $p && PATH=$PATH$p_$p ;;
 esac
done

PATH=.$p_$PATH
export PATH

: shall we be using ksh?
inksh=''
needksh=''
avoidksh=''
newsh=/bin/ksh
changesh=''
?X: Use (alias -x) and not (alias) since zsh and bash recognize the alias
?X: builtin but not the -x option which is typically ksh...
?X: We need to set up PATH before calling the "alias" built-in since
 some
?X: systems like HP-UX have a binary called /bin/alias.
if (PATH=.; alias -x) >/dev/null 2>&1; then
  inksh=true
fi
?X: On HP-UX, large Configure scripts may exercise a bug in /bin/sh, use ksh
if test -f /hp-ux -a -f /bin/ksh; then
 needksh='to avoid sh bug in "here document" expansion'
fi
?X: On AIX4, /bin/sh is really ksh and it causes problems, use sh
if test -d /usr/lpp -a -f /usr/bin/bsh -a -f /usr/bin/uname; then
 if test X`/usr/bin/uname -v` = X4; then
  avoidksh="to avoid AIX 4's /bin/sh"
  newsh=/usr/bin/bsh
 fi
```

```
fi
?X: On Digital UNIX, /bin/sh may start up buggy /bin/ksh, use sh
if test -f /osf_boot -a -f /usr/sbin/setld; then
 if test X`/usr/bin/uname -s` = XOSF1; then
  avoidksh="to avoid Digital UNIX' ksh"
  newsh=/bin/sh
?X: if BIN_SH is set to 'xpg4', sh will start up ksh
  unset BIN_SH
 fi
fi
?X: If we are not in ksh and need it, then feed us back to it
case "$inksh/$needksh" in
/[a-z]*)
?X: Clear ENV to avoid any ~/.kshrc that could alias cd or whatever...
?X: Don't
 use "unset ENV", that is not portable enough
  ENV=''
  changesh=true
  reason="$needksh"
 ;;
esac
?X: If we are in ksh and must avoid it, then feed us back to a new shell
case "$inksh/$avoidksh" in
true/[a-z]*)
 changesh=true
 reason="$avoidksh"
 ;;
esac
?X: Warn them if they use ksh on other systems, which are those where
?X: we don't need ksh nor want to avoid it explicitly, yet are using it.
case "$inksh/$needksh-$avoidksh-" in
true/--)
  cat <<EOM
(I see you are using the Korn shell.  Some ksh's blow up on $me,
mainly on older exotic systems.  If yours does, try the Bourne shell instead.)
EOM
 ;;
esac
case "$changesh" in
true)
 export newsh
 echo "(Feeding myself to $newsh $reason.)"
?X: Make sure they didn't say sh <Configure by checking whether $0 ends
?X: with Configure or not. If they did say sh <../../Configure, then too
?X: bad for them anyway, since we lost that path indication...
?X: Otherwise, execing $0 ensures we keep the full remote source dir
?X: indication for src.U.
 case
```

```
 "$0" in
 Configure|*/Configure) exec $newsh $0 "$@";;
 *) exec $newsh Configure "$@";;
 esac
 ;;
esac

?X: Unset CDPATH to avoid surprises when using cd under some shells
?X: Can't unset it because that's not portable to very old shells.
?X: Can't set it to '' because then bash 2.02 won't do "cd UU"  --AD  6/98.
?X: Don't want to set it to '.' because then ksh prints out the
?X: name of the directory every time you cd to it. --AD 6/98
?X: In order to inflict the least harm, change it only if it's set.
: if needed, set CDPATH to a harmless value that is not chatty
case "$CDPATH" in
'') ;;
*) case "$SHELL" in
 *bash*) CDPATH='.' ;;
 *) CDPATH='' ;;
 esac
 ;;
esac

: Configure runs within the UU subdirectory
test -d UU || mkdir UU
?X: Use ./* to avoid any confirmation prompts from enhanced shells -- WED
cd UU && rm -f ./*
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Head.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: bin.U,v 3.1 1999/07/09 18:20:13 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: bin.U,v $
?RCS: Revision 3.1  1999/07/09 18:20:13  doughera
?RCS: Updated for installprefix
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:15:32  ram
```

```
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:32:40  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:05:28  ram
?RCS: patch32: now uses installation prefix
?RCS:
?RCS:
 Revision 3.0.1.1  1993/09/13  15:56:51  ram
?RCS: patch10: made prompting more explicit (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:bin binexp installbin userelocatableinc initialinstalllocation: \
 Myread Prefixit Getfile Setvar Setprefixvar Oldconfig \
 test prefix prefixexp
?MAKE: -pick add $@ %<
?Y:TOP
?D:bin=''
?S:bin:
?S: This variable holds the name of the directory in which the user wants
?S: to put publicly executable images for the package in question.  It
?S: is most often a local directory such as /usr/local/bin. Programs using
?S: this variable must be prepared to deal with ~name substitution.
?S:.
?D:binexp=''
?S:binexp:
?S: This is the same as the bin variable, but is filename expanded at
?S: configuration time, for use in your makefiles.
?S:.
?D:installbin=''
?S:installbin:
?S: This variable is the same as binexp unless AFS is running in which case
?S: the user is explicitly prompted for it. This variable
 should always
?S: be used in your makefiles for maximum portability.
?S:.
?D:userelocatableinc=''
?S:userelocatableinc:
?S: This variable is set to true to indicate that perl should relocate
?S: @INC entries at runtime based on the path to the perl binary.
?S: Any @INC paths starting "../" are relocated relative to the directory
?S: containing the perl binary, and a logical cleanup of the path is then
?S: made around the join point (removing "dir/../" pairs)
?S:.
?S:initialinstalllocation:
```

```
?S: When userelocatableinc is true, this variable holds the location
?S: that make install should copy the perl binary to, with all the
?S: run-time relocatable paths calculated from this at install time.
?S: When used, it is initialized to the original value of binexp, and
?S: then binexp is set to '.../', as the other binaries are found
?S: relative to the perl binary.
?S:.
?C:BIN:
?C: This symbol holds the path of the bin directory where the package will
?C: be installed. Program must be
 prepared to deal with ~name substitution.
?C:.
?C:BIN_EXP:
?C: This symbol is the filename expanded version of the BIN symbol, for
?C: programs that do not want to deal with that at run-time.
?C:.
?C:PERL_RELOCATABLE_INC:
?C: This symbol, if defined, indicates that we'd like to relocate entries
?C: in @INC at run time based on the location of the perl binary.
?C:.
?H:#define BIN "$bin" /**/
?H:#define BIN_EXP "$binexp" /**/
?H:#define PERL_RELOCATABLE_INC "$userelocatableinc"  /**/
?H:.
?D:bin='/usr/local/bin'
?LINT:change prefix
?LINT:change prefixexp
?LINT:change prefixvar
?LINT:change installprefixexp
?LINT:set userelocatableinc
: determine where public executables go
echo " "
set dflt bin bin
eval $prefixit
fn=d~
rp='Pathname where the public executables will reside?'
. ./getfile
if $test "X$ansexp" != "X$binexp"; then
 installbin=''
fi
prefixvar=bin
: XXX Bug? -- ignores Configure -Dinstallprefix setting.
: XXX If this is fixed, also fix the "start perl" hunk below, which relies on
:
    this via initialinstalllocation
. ./setprefixvar

case "$userelocatableinc" in
```

```
$define|true|[yY]*) dflt='y' ;;
*)   dflt='n' ;;
esac
cat <<EOM

Would you like to build Perl so that the installation is relocatable, so that
library paths in @INC are determined relative to the path of the perl binary?
This is not advised for system Perl installs, or if you need to run setid
scripts or scripts under taint mode.

If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp='Use relocatable @INC?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*) val="$undef"  ;;
esac
set userelocatableinc
eval $setvar

initialinstalllocation="$binexp"
: Default prefix is now "up one level from where the binaries are"
case "$userelocatableinc" in
$define|true|[yY]*)
   bin=".../"
   binexp=".../"
   prefix=".../.."
   prefixexp=".../.."
   installprefixexp=".../.."
   ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/bin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: html1dir.U,v $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
```

```
?RCS: $Log: html1dir.U,v $
?RCS:
?MAKE:html1dir html1direxp installhtml1dir: cat Loc Myread \
 spackage test Getfile Setprefixvar Prefixit Prefixup
?MAKE: -pick add $@ %<
?Y:TOP
?D:html1dir="
?S:html1dir:
?S: This variable contains the name of the directory in which html
?S: source pages are to be put.  This directory is for pages
?S: that describe whole programs, not libraries or modules.  It
?S: is intended to correspond roughly to section 1 of the Unix
?S: manuals.
?S:.
?D:html1direxp="
?S:html1direxp:
?S: This
 variable is the same as the html1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installhtml1dir="
?S:installhtml1dir:
?S: This variable is really the same as html1direxp, unless you are
?S: using a different installprefix.  For extra portability, you
?S: should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set html1direxp
?LINT:set installhtml1dir
: determine where html pages for programs go
set html1dir html1dir none
eval $prefixit
$cat <<EOM

If you wish to install html files for programs in $spackage, indicate
the appropriate directory here.  To skip installing html files,
answer "none".
EOM
case "$html1dir" in
"|none|$undef|' ') dflt=none ;;
*) dflt=$html1dir ;;
esac
fn=dn+~
rp="Directory for the main $spackage html pages?"
. ./getfile
prefixvar=html1dir
. ./setprefixvar
: Use ' ' for none so value is preserved next time through Configure
```

```
$test X"$html1dir" = "X" && html1dir=' '

Found
 in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/html1dir.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: mansrc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: mansrc.U,v $
?RCS: Revision 3.0.1.9  1997/02/28  16:12:03  ram
?RCS: patch61: don't ask for AFS when they choose to not install pages
?RCS:
?RCS: Revision 3.0.1.8  1995/09/25  09:16:58  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.7  1995/02/15  14:15:31  ram
?RCS: patch51: was mistakenly duplicating /usr/local/man/man1 (ADO)
?RCS: patch51: added /opt/man/man1 to the lookpath (ADO)
?RCS:
?RCS: Revision
 3.0.1.6  1995/01/30  14:39:34  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:32:25  ram
?RCS: patch45: can now use Loc variables since path stripping is deferred
?RCS:
?RCS: Revision 3.0.1.4  1994/08/29  16:30:38  ram
?RCS: patch32: now uses installation prefix for default setting
?RCS:
?RCS: Revision 3.0.1.3  1994/05/06  15:11:10  ram
?RCS: patch23: added lint hint, assuring that nroff is used
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:14:39  ram
?RCS: patch16: now uses _nroff in case user asked for portability
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:09:31  ram
?RCS: patch10: allows for L1 man page extension (WAD)
?RCS:
```

```
?RCS: Revision 3.0  1993/08/18  12:09:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:mansrc mansrcexp manext installmansrc: afs cat nroff Loc Oldconfig \
 sysman spackage test Getfile Prefixit prefixexp Prefixup
?MAKE: -pick add $@ %<
?Y:TOP
?S:mansrc:
?S: This variable
 contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?S:mansrcexp:
?S: This variable is the same as the mansrc variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?S:installmansrc:
?S: This variable is really the same as mansrcexp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: mansrcexp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:manext:
?S: This variable contains the extension that the manual page should
?S: have: one of 'n', 'l', or '1'.  The Makefile must supply the '.'.
?S: See mansrc.
?S:.
?T:lookpath
: determine where manual pages go
set mansrc mansrc none
eval $prefixit
$cat <<EOM

$spackage has manual
 pages available in source form.
EOM
case "$nroff" in
nroff)
 echo "However, you don't have nroff, so they're probably useless to you."
 case "$mansrc" in
 ") mansrc="none";;
 esac;;
esac
echo "If you don't want the manual sources installed, answer 'none'."
case "$mansrc" in
")
```

```
 lookpath="$prefixexp/share/man/man1 $prefixexp/man/man1"
 lookpath="$lookpath $prefixexp/man/u_man/man1 $prefixexp/man/l_man/man1"
 lookpath="$lookpath /usr/local/man/man1 /opt/man/man1 /usr/man/manl"
 lookpath="$lookpath /usr/share/man/man1 /usr/local/share/man/man1"
 lookpath="$lookpath /usr/man/local/man1 /usr/man/l_man/man1"
 lookpath="$lookpath /usr/local/man/u_man/man1 /usr/local/man/l_man/man1"
 lookpath="$lookpath /usr/man/man.L"
 mansrc=`./loc . $prefixexp/man/man1 $lookpath`
 if $test -d "$mansrc"; then
  dflt="$mansrc"
 else
  dflt="$sysman"
 fi
 set dflt
 eval $prefixup
 ;;
' ') dflt=none;;
*)  dflt="$mansrc"
 ;;
esac
echo " "
fn=dn~
rp='Where do the manual pages (source) go?'
. ./getfile
if test
 "X$mansrcexp" != "X$ansexp"; then
 installmansrc="
fi
mansrc="$ans"
mansrcexp="$ansexp"
case "$mansrc" in
") mansrc=' '
 installmansrc=";;
esac
if $afs && $test "$mansrc"; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
manual pages reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installmansrc" in
 ") dflt=`echo $mansrcexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installmansrc";;
 esac
 fn=de~
 rp='Where will man pages be installed?'
```

```
 . ./getfile
 installmansrc="$ans"
else
 installmansrc="$mansrcexp"
fi

case "$mansrc" in
' ') manext='0';;
*l) manext=l;;
*n) manext=n;;
*o) manext=l;;
*p) manext=n;;
*C) manext=C;;
*L) manext=L;;
*L1) manext=L1;;
*) manext=1;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/mansrc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: spitshell.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: spitshell.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  16:22:12  ram
?RCS: patch61: removed useless chatter as this is now done very early
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:37:01  ram
?RCS: patch45: use 'test -f' instead of 'test -r' for exec-only cat progs (WED)
?RCS: patch45: protected "sh -c" within backquotes for Linux and SGI
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:33:00  ram
?RCS: patch32: don't create spitshell under the UU directory
?RCS:
 patch32: allow for cat in /bin or /usr/bin
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:12:58  ram
?RCS: patch10: made #!-failure message more friendly (WAD)
```

```
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:49  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:spitshell shsharp sharpbang: eunicefix sh Head
?MAKE: -pick add $@ %<
?S:spitshell:
?S: This variable contains the command necessary to spit out a runnable
?S: shell on this system.  It is either cat or a grep -v for # comments.
?S:.
?S:shsharp:
?S: This variable tells further Configure units whether your sh can
?S: handle # comments.
?S:.
?S:sharpbang:
?S: This variable contains the string #! if this system supports that
?S: construct.
?S:.
?F:!sharp
?T:xcat p
?X: "paths" comes from Head
?LINT:extern paths _exe
: see if sh knows # comments
?X: This is loaded up early, so avoid being chatty.
?X: echo " "
?X: echo "Checking your $sh to see if it knows about # comments..." >&2
if `$sh -c '#' >/dev/null 2>&1`; then
?X: echo
 "Your $sh handles # comments correctly."
 shsharp=true
 spitshell=cat
?X: echo " "
?X: echo "Okay, let's see if #! works on this system..."
 xcat=/bin/cat
 test -f $xcat$_exe || xcat=/usr/bin/cat
 if test ! -f $xcat$_exe; then
  for p in `echo $PATH | sed -e "s/$p_/ /g"` $paths; do
   if test -f $p/cat$_exe; then
    xcat=$p/cat
    break
   fi
  done
  if test ! -f $xcat$_exe; then
   echo "Can't find cat anywhere!"
   exit 1
  fi
 fi
 echo "#!$xcat" >sharp
```

```
 $eunicefix sharp
 chmod +x sharp
 ./sharp > today 2>/dev/null
 if test -s today; then
?X:  echo "It does."
  sharpbang='#!'
 else
  echo "#! $xcat" > sharp
  $eunicefix sharp
  chmod +x sharp
  ./sharp > today 2>/dev/null
  if test -s today; then
?X:   echo "It does."
   sharpbang='#! '
  else
?X:   echo "Okay, let's see if #! works on this system..."
?X:   echo "It's just a comment."
   sharpbang=': use '
  fi
 fi
else
 echo " "
 echo "Your $sh doesn't grok # comments--I will strip them later on."
 shsharp=false
?X: The
 spitshell script will be perused, so leave it out the UU directory
 cd ..
 echo "exec grep -v '^[  ]*#'" >spitshell
 chmod +x spitshell
 $eunicefix spitshell
 spitshell=`pwd`/spitshell
 cd UU
 echo "I presume that if # doesn't work, #! won't work either!"
 sharpbang=': use '
fi
rm -f sharp today
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/spitshell.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_dlsymun.U,v $
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
?RCS: $Log: d_dlsymun.U,v $
?RCS:
?RCS:
?MAKE:d_dlsymun: cat cc ccflags ldflags ld rm Setvar dlsrc i_dlfcn i_stdlib \
 cccdlflags ccdlflags lddlflags libs dlext _o run to
?MAKE: -pick add $@ %<
?X: This is specific to perl5.
?S:d_dlsymun:
?S: This variable conditionally defines DLSYM_NEEDS_UNDERSCORE, which
?S: indicates that we need to prepend an underscore to the symbol
?S: name before calling dlsym().
?S:.
?C:DLSYM_NEEDS_UNDERSCORE:
?C: This symbol, if defined, indicates that we need to prepend an
?C: underscore to the symbol name before calling dlsym().  This only
?C: makes sense if you *have* dlsym, which we will presume is the
?C: case if you're using dl_dlopen.xs.
?C:.
?H:#$d_dlsymun DLSYM_NEEDS_UNDERSCORE /**/
?H:.
?LINT:set
 d_dlsymun
?T: xxx
?F:!fred
: Check if dlsym need a leading underscore
echo " "
val="$undef"

case "$dlsrc" in
dl_dlopen.xs)
 echo "Checking whether your dlsym() needs a leading underscore ..." >&4
 $cat >dyna.c <<'EOM'
fred () { }
EOM

$cat >fred.c<<EOM

#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_dlfcn I_DLFCN
#ifdef I_DLFCN
#include <dlfcn.h>      /* the dynamic linker include file for SunOS/Solaris */
#else
#include <sys/types.h>
```

```
#include <nlist.h>
#include <link.h>
#endif

extern int fred() ;

int main()
{
   void * handle ;
   void * symbol ;
#ifndef RTLD_LAZY
   int mode = 1 ;
#else
   int mode = RTLD_LAZY ;
#endif
   handle = dlopen("./dyna.$dlext", mode) ;
   if (handle == NULL) {
 printf ("1\n") ;
 fflush (stdout) ;
 exit(0);
   }
   symbol = dlsym(handle, "fred") ;
   if (symbol == NULL) {
 /* try putting a leading underscore */
 symbol = dlsym(handle, "_fred") ;
 if (symbol ==
 NULL) {
     printf ("2\n") ;
     fflush (stdout) ;
     exit(0);
 }
 printf ("3\n") ;
   }
   else
 printf ("4\n") ;
   fflush (stdout) ;
   exit(0);
}
EOM
 : Call the object file tmp-dyna.o in case dlext=o.
 if $cc $ccflags $cccdlflags -c dyna.c > /dev/null 2>&1 &&
  mv dyna${_o} tmp-dyna${_o} > /dev/null 2>&1 &&
  $ld -o dyna.$dlext $ldflags $lddlflags tmp-dyna${_o} > /dev/null 2>&1 &&
  $cc -o fred $ccflags $ldflags $cccdlflags $ccdlflags fred.c $libs > /dev/null 2>&1 && $to dyna.$dlext; then
  xxx=`$run ./fred`
  case $xxx in
  1) echo "Test program failed using dlopen." >&4
   echo "Perhaps you should not use dynamic loading." >&4;;
```

```
  2) echo "Test program failed using dlsym." >&4
   echo "Perhaps you should not use dynamic loading." >&4;;
  3) echo "dlsym needs a leading underscore" >&4
   val="$define" ;;
  4) echo "dlsym doesn't need a leading underscore." >&4;;
  esac
 else
  echo "I can't compile and run the test program." >&4
             echo "I'm guessing that dlsym
 doesn't need a leading underscore." >&4
 fi
 ;;
esac

$rm -f fred fred.* dyna.$dlext dyna.* tmp-dyna.*

set d_dlsymun
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_dlsymun.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: lib.U,v 3.0.1.3 1995/09/25 09:16:47 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: lib.U,v $
?RCS: Revision 3.0.1.3  1995/09/25  09:16:47  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:38:08  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:27:40  ram
?RCS: patch32: now uses installation prefix to set the default
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?LINT:
```

```
 empty
?X:?MAKE:lib libexp: Getfile Loc Oldconfig Prefixit Prefixup prefixexp
?X:?MAKE: -pick add $@ %<
?X:?Y:TOP
?X:?S:lib:
?X:?S: This variable holds the name of the directory in which the user wants
?X:?S: to put public library files for the package in question.  It is most
?X:?S: often a local directory such as /usr/local/lib. Programs using this
?X:?S: variable must be prepared to deal with filename expansion.
?X:?S:.
?X:?S:libexp:
?X:?S: This variable is the same as the lib variable, but is filename expanded
?X:?S: at configuration time, for convenient use in your makefiles.
?X:?S:.
?X:: determine where public libraries go
?X:set lib lib
?X:eval $prefixit
?X:case "$lib" in
?X:")
?X: dflt=`./loc . "." $prefixexp/lib /usr/local/lib /usr/lib /lib`
?X: set dflt
?X: eval $prefixup
?X: ;;
?X:*)  dflt="$lib";;
?X:esac
?X:echo " "
?X:fn=d~
?X:rp='Where do you want to put the public libraries?'
?X:. ./getfile
?X:lib="$ans"
?X:libexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/nullified/lib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libs.U,v $
```

```
?RCS: Revision 3.0.1.6  1997/02/28  16:09:11  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.5  1995/07/25  14:12:05  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  16:24:22  ram
?RCS: patch36: removed old broken thislib/thatlib processing (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:05:44  ram
?RCS: patch30: code cleanup with if/elif by ADO and RAM
?RCS: patch30: undone patch23 for libswanted default
 setting
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:08:45  ram
?RCS: patch23: now includes ordered default libswanted variable (ADO)
?RCS: patch23: major cleanup for library lookups (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:02:31  ram
?RCS: patch6: added default for libs
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libs libsfound libsfiles libsdirs libspath libscheck: \
 test cat Myread Oldconfig Loc libpth package xlibpth so _a \
 +usesocks sed +cc +ccflags +ldflags rm
?MAKE: -pick add $@ %<
?S:libs:
?S: This variable holds the additional libraries we want to use.
?S: It is up to the Makefile to deal with it.  The list can be empty.
?S:.
?S:libsfound:
?S: This variable holds the full pathnames of the libraries
?S: we found and accepted.
?S:.
?S:libsfiles:
?S: This variable holds the filenames aka basenames of the libraries
?S: we found and accepted.
?S:.
?S:libsdirs:
?S: This variable holds the directory
 names aka dirnames of the libraries
?S: we found and accepted, duplicates are removed.
?S:.
?S:libspath:
?S: This variable holds the directory names probed for libraries.
?S:.
```

```
?S:libscheck:
?S: This variable is intended to be set by hint files, if needed.
?S: It should contain shell code that will be eval'ed with $xxx holding
?S: some library file.  It may change $xxx if needed.
?S: For instance, on an Irix platform, you may make sure the right
?S: library file is used depending on the cc command line, so that the
?S: correct library is used depending on the selected ABI (for 32 and
?S: 64-bit compilations).
?S:
?S: Here is an example of code that could be found in a hint file on Irix
?S: when the selected compiler was for 32-bit -- that code is put in the
?S: cc.cbu call-back unit to be invoked AFTER the C compiler and its
?S: flags have been chosen:
?S:
?S:  libscheck='case "$xxx" in
?S:  *.a) /bin/ar p $xxx `/bin/ar t $xxx | sed q` >$$.o;
?S:   case "`/usr/bin/file $$.o`" in
?S:   *N32*)
 rm -f $$.o ;;
?S:   *) rm -f $$.o; xxx=/no/n32$xxx ;;
?S:   esac ;;
?S:  *) case "`/usr/bin/file $xxx`" in
?S:   *N32*) ;;
?S:   *) xxx=/no/n32$xxx ;;
?S:   esac ;;
?S:  esac'
?S:.
?D:libs="
?LINT:extern libswanted
?LINT:change libswanted
?INIT:: default library list
?INIT:libswanted="
?X: This order is chosen so that libraries  -lndir, -ldir, -lucb, -lbsd,
?X: -lBSD, -lPW, and -lx only get used if there are unresolved
?X: routines at link time.  Usually, these are backwards compatability
?X: libraries, and may not be as reliable as the standard c library.
?X:
?X: The -lsocket -linet -lnsl order has been reported to be necessary
?X: for at least one SVR4 implementation.
?X: -lc must proceed -lucb or -lbsd for most Solaris applications.
?X: -lc_s proceeds -lc so we pick up the shared library version, if
?X: it is available.
?X:
?X: The ordering of c, posix, and cposix is a guess and almost
?X: certainly wrong on about half of all systems.
?X:
?X: Set proper libswanted in your private
```

```
 Myinit.U if needed.
?X:
?X:: default ordered library list
?X:libswanted='net socket inet bind nsl nm sdbm gdbm ndbm dbm malloc dl'
?X:libswanted="$libswanted dld sun m c_s c posix cposix ndir dir ucb"
?X:libswanted="$libswanted bsd BSD PW x"
?X:
?INIT:: should be set by hint files if needed
?INIT:libscheck="
?T:xxx yyy thislib thisdir libstyle linkmsg
?F:lt.c lt
: Looking for optional libraries
echo " "
echo "Checking for optional libraries..." >&4
case "$libs" in
' '|'') dflt='';;
*) dflt="$libs";;
esac
case "$libswanted" in
'') libswanted='c_s';;
esac
?X: libsocks has nasty naming scheme.
?X: This does not work if somebody wants SOCKS 4.
case "$usesocks" in
"$define") libswanted="$libswanted socks5 socks5_sh" ;;
esac
?X: Used later for link checks
echo "extern char printf(); int main() { printf(); return 0; }" > lt.c
libsfound="
libsfiles="
libsdirs="
libspath="
for thisdir in $libpth $xlibpth; do
 test -d $thisdir && libspath="$libspath $thisdir"
done
for thislib in $libswanted;
 do
 for thisdir in $libspath; do
    xxx=''
    if $test ! -f "$xxx" ; then
   xxx=`ls $thisdir/lib$thislib.$so.[0-9]* 2>/dev/null | $sed -n '1p'`
   $test -f "$xxx" && eval $libscheck
   $test -f "$xxx" && libstyle=shared
    fi
    if test ! -f "$xxx"; then
   xxx=$thisdir/lib$thislib.$so
   $test -f "$xxx" && eval $libscheck
   $test -f "$xxx" && libstyle=shared
```

```
    fi
    if test ! -f "$xxx"; then
  xxx=$thisdir/lib$thislib$_a
        $test -f "$xxx" && eval $libscheck
  $test -f "$xxx" && libstyle=static
    fi
    if test ! -f "$xxx"; then
  xxx=$thisdir/$thislib$_a
        $test -f "$xxx" && eval $libscheck
  $test -f "$xxx" && libstyle=static
    fi
    if test ! -f "$xxx"; then
  xxx=$thisdir/lib${thislib}_s$_a
        $test -f "$xxx" && eval $libscheck
  $test -f "$xxx" && libstyle=static
  $test -f "$xxx" && thislib=${thislib}_s
    fi
    if test ! -f "$xxx"; then
  xxx=$thisdir/Slib$thislib$_a
        $test -f "$xxx" && eval $libscheck
  $test
 -f "$xxx" && libstyle=static
    fi
    if $test -f "$xxx"; then
?X:
?X: It is not sufficient to find a .so on the disk.  We must make sure
?X: that we can indeed supply the -lfoo line on the cc line to link against
?X: that library.  On Linux for instance, a versionned .so will not be
?X: implicitly linked against, whereas it will work fine on Solaris 2.6.
?X:  --RAM, 10/10/2003
?X:
  if $cc -o lt $ccflags $ldflags lt.c -l$thislib >/dev/null 2>&1;
  then
   linkmsg=""
  else
   linkmsg=" but I can't link against it"
  fi
  case "$libstyle" in
  shared) echo "Found -l$thislib (shared)$linkmsg." ;;
  static) echo "Found -l$thislib$linkmsg." ;;
  *)      echo "Found -l$thislib ($libstyle)$linkmsg." ;;
  esac
  case " $dflt " in
  *"-l$thislib "*) ;;
  *)
   case "$linkmsg" in
   ")
    dflt="$dflt -l$thislib"
```

```
    libsfound="$libsfound $xxx"
    yyy=`basename $xxx`
    libsfiles="$libsfiles $yyy"
    yyy=`echo $xxx|$sed -e "s%/$yyy\\$%%"`
    case " $libsdirs
" in
    *" $yyy "*) ;;
    *) libsdirs="$libsdirs $yyy" ;;
    esac
      ;;
   esac
   ;;
  esac
  break
    fi
 done
 if $test ! -f "$xxx"; then
    echo "No -l$thislib."
 fi
done
set X $dflt
shift
dflt="$*"
case "$libs" in
") dflt="$dflt";;
*) dflt="$libs";;
esac
case "$dflt" in
' '|") dflt='none';;
esac
$rm -f lt.c lt

$cat <<EOM

In order to compile $package on your machine, a number of libraries
are usually needed.  Include any other special libraries here as well.
Say "none" for none.  The default list is almost always right.
EOM

echo " "
rp="Which libraries to use?"
. ./myread
case "$ans" in
none) libs=' ';;
*) libs="$ans";;
esac

Found in path(s):
```

* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/libs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysresrc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysresrc.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:34  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Look wether <sys/resource.h> needs to be included
?X:
?MAKE:i_sysresrc: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysresrc:
?S: This variable conditionally defines the I_SYS_RESOURCE symbol,
?S: and indicates whether a C program should include <sys/resource.h>.
?S:.
?C:I_SYS_RESOURCE (I_SYSRESOURCE):
?C: This symbol, if defined, indicates
 to the C program that it should
?C: include <sys/resource.h>.
?C:.
?H:#$i_sysresrc I_SYS_RESOURCE  /**/
?H:.
?LINT:set i_sysresrc
: see if sys/resource.h has to be included
set sys/resource.h i_sysresrc
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sysresrc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: voidflags.U,v 3.0.1.2 1997/02/28 16:27:58 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: voidflags.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:27:58  ram
?RCS: patch61: don't prompt them if the void support is high enough for us
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:37:44  ram
?RCS: patch45: cosmetic change to avoid spurious blank lines when using -s
?RCS:
?RCS: Revision 3.0  1993/08/18  12:10:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:voidflags defvoidused: cat rm_try compiler_warning +cc +ccflags package \
 Oldconfig
 Myread i_stdlib
?MAKE: -pick add $@ %<
?S:voidflags:
?S: This variable contains the eventual value of the VOIDFLAGS symbol,
?S: which indicates how much support of the void type is given by this
?S: compiler.  See VOIDFLAGS for more info.
?S:.
?S:defvoidused:
?S: This variable contains the default value of the VOIDUSED symbol (15).
?S:.
?X: Exceptionally, we have to explicitly alias the symbol name for
?X: config_h.SH, otherwise the comment would not appear.
?C:VOIDFLAGS ~ %<:
?C: This symbol indicates how much support of the void type is given by this
?C: compiler.  What various bits mean:
?C:
?C:     1 = supports declaration of void
?C:     2 = supports arrays of pointers to functions returning void
?C:     4 = supports comparisons between pointers to void functions and
?C:      addresses of void functions
?C:     8 = supports declaration of generic void pointers
?C:
?C: The package designer should define VOIDUSED to indicate the requirements
?C: of the package.  This can be
 done either by #defining VOIDUSED before
?C: including config.h, or by defining defvoidused in Myinit.U.  If the
?C: latter approach is taken, only those flags will be tested.  If the
?C: level of void support necessary is not present, defines void to int.
?C:.
?H:?%<:#ifndef VOIDUSED
```

```
?H:?%<:#define VOIDUSED $defvoidused
?H:?%<:#endif
?H:?%<:#define VOIDFLAGS $voidflags
?H:?%<:#if (VOIDFLAGS & VOIDUSED) != VOIDUSED
?H:?%<:#define void int  /* is void to be avoided? */
?H:?%<:#define M_VOID   /* Xenix strikes again */
?H:?%<:#endif
?H:.
?INIT:: full support for void wanted by default
?INIT:defvoidused=15
?INIT:
?LINT:known void M_VOID VOIDUSED
: check for void type
echo " "
echo "Checking to see how well your C compiler groks the void type..." >&4
case "$voidflags" in
")
 $cat >try.c <<EOCP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#if TRY & 1
void sub() {
#else
sub() {
#endif
 extern void moo(); /* function returning void */
 void (*goo)();  /* ptr to func returning
 void */
#if TRY & 8
 void *hue;  /* generic ptr */
#endif
#if TRY & 2
 void (*foo[10])();
#endif

#if TRY & 4
 if(goo == moo) {
  exit(0);
 }
#endif
 exit(0);
}
int main() { sub(); }
EOCP
?X: This unit used to use cc -S in those tests to try to speed up things, but
?X: unfortunately, AIX 3.2 does not support this option.
```

```
 if $cc $ccflags -c -DTRY=$defvoidused try.c >.out 2>&1 ; then
  voidflags=$defvoidused
 echo "Good.  It appears to support void to the level $package wants.">&4
  if $compiler_warning .out >/dev/null 2>&1; then
   echo "However, you might get some warnings that look like this:"
   $cat .out
  fi
 else
echo "Hmm, your compiler has some difficulty with void. Checking further..." >&4
  if $cc $ccflags -c -DTRY=1 try.c >/dev/null 2>&1; then
   echo "It supports 1..."
   if $cc $ccflags -c -DTRY=3 try.c >/dev/null 2>&1; then
    echo "It also supports 2..."
    if $cc $ccflags -c -DTRY=7 try.c >/dev/null 2>&1; then
     voidflags=7
     echo "And it supports 4 but not 8
 definitely."
    else
     echo "It doesn't support 4..."
     if $cc $ccflags -c -DTRY=11 try.c >/dev/null 2>&1; then
      voidflags=11
      echo "But it supports 8."
     else
      voidflags=3
      echo "Neither does it support 8."
     fi
    fi
   else
    echo "It does not support 2..."
    if $cc $ccflags -c -DTRY=13 try.c >/dev/null 2>&1; then
     voidflags=13
     echo "But it supports 4 and 8."
    else
     if $cc $ccflags -c -DTRY=5 try.c >/dev/null 2>&1; then
      voidflags=5
      echo "And it supports 4 but has not heard about 8."
     else
      echo "However it supports 8 but not 4."
     fi
    fi
   fi
  else
   echo "There is no support at all for void."
   voidflags=0
  fi
 fi
esac
?X: Only prompt user if support does not match the level we want
```

```
case "$voidflags" in
"$defvoidused") ;;
*) $cat >&4 <<'EOM'
 Support flag bits are:
   1: basic void declarations.
   2: arrays of pointers to functions returning void.
   4: operations between pointers to and addresses
 of void functions.
   8: generic void pointers.
EOM
 dflt="$voidflags";
 rp="Your void support flags add up to what?"
 . ./myread
 voidflags="$ans"
 ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/voidflags.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setpgrp2.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setpgrp2.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:10  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setpgrp2: Inlibc
?MAKE: -pick add $@ %<
?S:d_setpgrp2:
?S: This variable conditionally defines the HAS_SETPGRP2 symbol, which
?S: indicates to the C program that the setpgrp2() (as in DG/UX) routine
?S: is available to set the current process group.
?S:.
?C:HAS_SETPGRP2 (SETPGRP2):
?C: This symbol, if defined, indicates that the
 setpgrp2() (as in DG/UX)
?C: routine is available to set the current process group.
```

```
?C:.
?H:#$d_setpgrp2 HAS_SETPGRP2  /**/
?H:.
?LINT:set d_setpgrp2
: see if setpgrp2 exists
set setpgrp2 d_setpgrp2
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setpgrp2.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_fcntl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_fcntl.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:18  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_fcntl: h_fcntl h_sysfile +i_sysfile Inhdr Setvar
?MAKE: -pick add $@ %<
?S:i_fcntl:
?S: This variable controls the value of I_FCNTL (which tells
?S: the C program to include <fcntl.h>).
?S:.
?C:I_FCNTL (HDR_O_STUFF FCNTL):
?C: This manifest constant tells the C program to include <fcntl.h>.
?C:.
?H:#$i_fcntl I_FCNTL /**/
?H:.
?T:val
?X:
 Make line lists +i_sysfile to ensure tests for <sys/file.h> will be
?X: conducted prior tests for <fcntl.h>, hece making sure the h_sysfile
?X: variable is correctly set when we reach that unit.
?LINT:set i_fcntl
?LINT:use i_sysfile
?LINT:change h_fcntl
: see if fcntl.h is there
val="
```

```
set fcntl.h val
eval $inhdr

: see if we can include fcntl.h
case "$val" in
"$define")
 echo " "
 if $h_fcntl; then
  val="$define"
  echo "We'll be including <fcntl.h>." >&4
 else
  val="$undef"
  if $h_sysfile; then
 echo "We don't need to include <fcntl.h> if we include <sys/file.h>." >&4
  else
   echo "We won't be including <fcntl.h>." >&4
  fi
 fi
 ;;
*)
 h_fcntl=false
 val="$undef"
 ;;
esac
set i_fcntl
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_fcntl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: perlpath.U,v 3.0.1.2 1995/09/25 09:17:04 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: perlpath.U,v $
?RCS:
?RCS: Special perl5 unit -- we haven't installed perl yet.
?RCS:
?RCS: Revision 3.0.1.2  1995/09/25  09:17:04  ram
```

```
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:33:53  ram
?RCS: patch45: can now use Loc variables since path stripping is deferred
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:32  ram
?RCS: Baseline for dist
 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this unit is to locate perl good enough to construct a #!
?X:
?MAKE:perlpath: cat Getfile Loc Myread Oldconfig initialinstalllocation \
 startperl version versiononly
?MAKE: -pick add $@ %<
?Y:TOP
?S:perlpath:
?S: This variable contains the eventual value of the PERLPATH symbol,
?S: which contains the name of the perl interpreter to be used in
?S: shell scripts and in the "eval 'exec'" idiom.  This variable is
?S: not necessarily the pathname of the file containing the perl
?S: interpreter; you must append the executable extension (_exe) if
?S: it is not already present.  Note that Perl code that runs during
?S: the Perl build process cannot reference this variable, as Perl
?S: may not have been installed, or even if installed, may be a
?S: different version of Perl.
?S:.
?C:PERLPATH:
?C: This symbol contains the name of the perl interpreter to be
?C: used in shell scripts and in the "eval 'exec'" idiom.
?C:.
?H:#define PERLPATH "$perlpath"  /**/
?H:.
:
 figure best path for perl in scripts
case "$perlpath" in
")
 case "$versiononly" in
 "$define") perlpath="$initialinstalllocation/perl$version";;
 *)  perlpath="$initialinstalllocation/perl";;
 esac
 case "$startperl" in
 *!*) ;;
 *)
  $cat <<EOH

I will use the "eval 'exec'" idiom to start Perl on your system.
I can use the full path of your Perl binary for this purpose, but
```

```
doing so may cause problems if you want to share those scripts and
Perl is not always in a standard place ($initialinstalllocation/perl).

EOH
  dflt="$initialinstalllocation/perl"
  rp="What path shall I use in \"eval 'exec'\"?"
  . ./myread
  perlpath="$ans"
  ;;
 esac
 ;;
esac
case "$startperl" in
*!*) ;;
*) echo "I'll use $perlpath in \"eval 'exec'\"" ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/perlpath.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_socket.U,v 3.0.1.2 1997/02/28 15:46:00 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_socket.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:46:00  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:08:04  ram
?RCS: patch16: can now safely declare private nm_extract in dependencies
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_socket d_oldsock d_sockpair socketlib sockethdr \
 d_msg_ctrunc d_msg_dontroute d_msg_oob d_msg_peek
 d_msg_proxy \
 d_scm_rights d_sockaddr_sa_len d_sockaddr_in6 d_sin6_scope_id \
 d_ip_mreq d_ip_mreq_source d_ipv6_mreq d_ipv6_mreq_source \
 d_sockaddr_storage: \
```

```
 contains echo n c ar nm nm_opt nm_extract Inlibc Csym _a \
 Compile cat rm_try Setvar Hasfield sysroot
?MAKE: -pick add $@ %<
?S:d_socket:
?S: This variable conditionally defines HAS_SOCKET, which indicates
?S: that the BSD socket interface is supported.
?S:.
?S:d_sockpair:
?S: This variable conditionally defines the HAS_SOCKETPAIR symbol, which
?S: indicates that the BSD socketpair() is supported.
?S:.
?S:d_oldsock:
?S: This variable conditionally defines the OLDSOCKET symbol, which
?S: indicates that the BSD socket interface is based on 4.1c and not 4.2.
?S:.
?S:d_msg_ctrunc:
?S: This variable conditionally defines the HAS_MSG_CTRUNC symbol,
?S: which indicates that the MSG_CTRUNC is available.  #ifdef is
?S: not enough because it may be an enum, glibc has been known to do this.
?S:.
?S:d_msg_dontroute:
?S: This variable
 conditionally defines the HAS_MSG_DONTROUTE symbol,
?S: which indicates that the MSG_DONTROUTE is available.  #ifdef is
?S: not enough because it may be an enum, glibc has been known to do this.
?S:.
?S:d_msg_oob:
?S: This variable conditionally defines the HAS_MSG_OOB symbol,
?S: which indicates that the MSG_OOB is available.  #ifdef is
?S: not enough because it may be an enum, glibc has been known to do this.
?S:.
?S:d_msg_peek:
?S: This variable conditionally defines the HAS_MSG_PEEK symbol,
?S: which indicates that the MSG_PEEK is available.  #ifdef is
?S: not enough because it may be an enum, glibc has been known to do this.
?S:.
?S:d_msg_proxy:
?S: This variable conditionally defines the HAS_MSG_PROXY symbol,
?S: which indicates that the MSG_PROXY is available.  #ifdef is
?S: not enough because it may be an enum, glibc has been known to do this.
?S:.
?S:d_scm_rights:
?S: This variable conditionally defines the HAS_SCM_RIGHTS symbol,
?S: which indicates that the SCM_RIGHTS is available.
  #ifdef is
?S: not enough because it may be an enum, glibc has been known to do this.
?S:.
?S:d_sockaddr_sa_len:
```

```
?S: This variable conditionally defines the HAS_SOCKADDR_SA_LEN symbol,
?S: which indicates that a struct sockaddr structure has the sa_len
?S: member.
?S:.
?S:d_sockaddr_in6:
?S: This variable conditionally defines the HAS_SOCKADDR_IN6 symbol, which
?S: indicates the availability of a struct sockaddr_in6.
?S:.
?S:d_sockaddr_storage:
?S: This variable conditionally defines the HAS_SOCKADDR_STORAGE symbol,
?S: which indicates the availability of a struct sockaddr_storage.
?S:.
?S:d_sin6_scope_id:
?S: This variable conditionally defines the HAS_SIN6_SCOPE_ID symbol, which
?S: indicates that a struct sockaddr_in6 structure has the sin6_scope_id
?S: member.
?S:.
?S:d_ip_mreq:
?S: This variable conditionally defines the HAS_IP_MREQ symbol, which
?S: indicates the availability of a struct ip_mreq.
?S:.
?S:d_ip_mreq_source:
?S: This variable conditionally defines the HAS_IP_MREQ_SOURCE
 symbol,
?S: which indicates the availability of a struct ip_mreq_source.
?S:.
?S:d_ipv6_mreq:
?S: This variable conditionally defines the HAS_IPV6_MREQ symbol, which
?S: indicates the availability of a struct ipv6_mreq.
?S:.
?S:d_ipv6_mreq_source:
?S: This variable conditionally defines the HAS_IPV6_MREQ_SOURCE symbol,
?S: which indicates the availability of a struct ipv6_mreq_source.
?S:.
?S:socketlib:
?S: This variable has the names of any libraries needed for socket support.
?S:.
?S:sockethdr:
?S: This variable has any cpp '-I' flags needed for socket support.
?S:.
?C:HAS_SOCKET (SOCKET):
?C: This symbol, if defined, indicates that the BSD socket interface is
?C: supported.
?C:.
?C:HAS_SOCKETPAIR (SOCKETPAIR):
?C: This symbol, if defined, indicates that the BSD socketpair() call is
?C: supported.
?C:.
```

?C:USE_OLDSOCKET (OLDSOCKET):
?C: This symbol, if defined, indicates that the 4.1c BSD socket interface
?C: is supported instead of the 4.2/4.3 BSD socket interface. For instance,
?C: there
is no setsockopt() call.
?C:.
?C:HAS_MSG_CTRUNC:
?C: This symbol, if defined, indicates that the MSG_CTRUNC is supported.
?C: Checking just with #ifdef might not be enough because this symbol
?C: has been known to be an enum.
?C:.
?C:HAS_MSG_DONTROUTE:
?C: This symbol, if defined, indicates that the MSG_DONTROUTE is supported.
?C: Checking just with #ifdef might not be enough because this symbol
?C: has been known to be an enum.
?C:.
?C:HAS_MSG_OOB:
?C: This symbol, if defined, indicates that the MSG_OOB is supported.
?C: Checking just with #ifdef might not be enough because this symbol
?C: has been known to be an enum.
?C:.
?C:HAS_MSG_PEEK:
?C: This symbol, if defined, indicates that the MSG_PEEK is supported.
?C: Checking just with #ifdef might not be enough because this symbol
?C: has been known to be an enum.
?C:.
?C:HAS_MSG_PROXY:
?C: This symbol, if defined, indicates that the MSG_PROXY is supported.
?C: Checking just with #ifdef might not be enough because this
symbol
?C: has been known to be an enum.
?C:.
?C:HAS_SCM_RIGHTS:
?C: This symbol, if defined, indicates that the SCM_RIGHTS is supported.
?C: Checking just with #ifdef might not be enough because this symbol
?C: has been known to be an enum.
?C:.
?C:HAS_SOCKADDR_SA_LEN:
?C: This symbol, if defined, indicates that the struct sockaddr
?C: structure has a member called sa_len, indicating the length of
?C: the structure.
?C:.
?C:HAS_SOCKADDR_IN6:
?C: This symbol, if defined, indicates the availability of
?C: struct sockaddr_in6;
?C:.
?C:HAS_SOCKADDR_STORAGE:
?C: This symbol, if defined, indicates the availability of

```
?C: struct sockaddr_storage;
?C:.
?C:HAS_SIN6_SCOPE_ID:
?C: This symbol, if defined, indicates that the struct sockaddr_in6
?C: structure has a member called sin6_scope_id.
?C:.
?C:HAS_IP_MREQ:
?C: This symbol, if defined, indicates the availability of
?C: struct ip_mreq;
?C:.
?C:HAS_IP_MREQ_SOURCE:
?C: This symbol, if defined, indicates the availability of
?C: struct ip_mreq_source;
?C:.
?C:HAS_IPV6_MREQ:
?C: This
 symbol, if defined, indicates the availability of
?C: struct ipv6_mreq;
?C:.
?C:HAS_IPV6_MREQ_SOURCE:
?C: This symbol, if defined, indicates the availability of
?C: struct ipv6_mreq_source;
?C:.
?H:#$d_socket HAS_SOCKET  /**/
?H:#$d_sockpair HAS_SOCKETPAIR /**/
?H:#$d_sockaddr_sa_len HAS_SOCKADDR_SA_LEN /**/
?H:#$d_oldsock USE_OLDSOCKET /**/
?H:#$d_msg_ctrunc HAS_MSG_CTRUNC /**/
?H:#$d_msg_dontroute HAS_MSG_DONTROUTE /**/
?H:#$d_msg_oob HAS_MSG_OOB /**/
?H:#$d_msg_peek HAS_MSG_PEEK /**/
?H:#$d_msg_proxy HAS_MSG_PROXY /**/
?H:#$d_scm_rights HAS_SCM_RIGHTS /**/
?H:#$d_sockaddr_in6 HAS_SOCKADDR_IN6 /**/
?H:#$d_sockaddr_storage HAS_SOCKADDR_STORAGE /**/
?H:#$d_sin6_scope_id HAS_SIN6_SCOPE_ID /**/
?H:#$d_ip_mreq HAS_IP_MREQ /**/
?H:#$d_ip_mreq_source HAS_IP_MREQ_SOURCE /**/
?H:#$d_ipv6_mreq HAS_IPV6_MREQ /**/
?H:#$d_ipv6_mreq_source HAS_IPV6_MREQ_SOURCE /**/
?H:.
?T:val net ENUM enum
?LINT:set d_sockpair d_sockaddr_sa_len
?LINT:set d_msg_ctrunc d_msg_dontroute
 d_msg_oob d_msg_peek d_msg_proxy
?LINT:set d_scm_rights d_sockaddr_in6 d_sin6_scope_id d_ip_mreq
?LINT:set d_ip_mreq_source d_ipv6_mreq d_ipv6_mreq_source d_sockaddr_storage
: see whether socket exists
```

```
socketlib=''
sockethdr=''
echo " "
$echo $n "Hmm... $c" >&4
if set socket val -f d_socket; eval $csym; $val; then
   echo "Looks like you have Berkeley networking support." >&4
   d_socket="$define"
?X: now check for advanced features
   if set setsockopt val -f; eval $csym; $val; then
 d_oldsock="$undef"
   else
 echo "...but it uses the old BSD 4.1c interface, rather than 4.2." >&4
 d_oldsock="$define"
   fi
else
?X: HP-UX, for one, puts all the socket stuff in socklib.o. Note that if we
?X: come here on HP-UX, then we must have used nm to get symbols, or we really
?X: don't have sockets anyway...
   if $contains socklib libc.list >/dev/null 2>&1; then
 echo "Looks like you have Berkeley networking support." >&4
 d_socket="$define"
 : we will have to assume that it supports
 the 4.2 BSD interface
 d_oldsock="$undef"
   else
 echo "You don't have Berkeley networking in libc$_a..." >&4
?X: look for optional networking libraries
 if test "X$d_socket" = "X$define"; then
     echo "...but you seem to believe that you have sockets." >&4
 else
     for net in net socket
     do
  if test -f $sysroot/usr/lib/lib$net$_a; then
?X: space between two  '(' needed for ksh
      ( ($nm $nm_opt $sysroot/usr/lib/lib$net$_a | eval $nm_extract) ||  \
      $ar t $sysroot/usr/lib/lib$net$_a) 2>/dev/null >> libc.list
      if $contains socket libc.list >/dev/null 2>&1; then
   d_socket="$define"
   socketlib="-l$net"
   case "$net" in
   net)
       echo "...but the Wollongong group seems to have hacked it in." >&4
       sockethdr="-I$sysroot/usr/netinclude"
       ;;
   esac
   echo "Found Berkeley sockets interface in lib$net." >&4
?X: now check for advanced features
   if $contains setsockopt libc.list >/dev/null 2>&1; then
```

```
      d_oldsock="$undef"
   else
      echo
 "...using the old BSD 4.1c interface, rather than 4.2." >&4
      d_oldsock="$define"
   fi
   break
      fi
  fi
     done
     if test "X$d_socket" != "X$define"; then
        echo "or anywhere else I see." >&4
        d_socket="$undef"
        d_oldsock="$undef"
     fi
 fi
   fi
fi

@if HAS_SOCKETPAIR || d_sockpair
: see if socketpair exists
set socketpair d_sockpair
eval $inlibc

@end

echo "Checking the availability sa_len in the sock struct ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
int main() {
struct sockaddr sa;
return (sa.sa_len);
}
EOF
val="$undef"
set try; if eval $compile; then
   val="$define"
fi
set d_sockaddr_sa_len; eval $setvar
$rm_try

echo "Checking the availability struct sockaddr_in6 ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
```

```
struct sockaddr_in6 sin6;
return (sin6.sin6_family);
}
EOF
val="$undef"
set try; if eval $compile; then
   val="$define"
fi
set d_sockaddr_in6;
 eval $setvar
$rm_try

echo "Checking the availability struct sockaddr_storage ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct sockaddr_storage sastor;
return (sastor.ss_family);
}
EOF
val="$undef"
set try; if eval $compile; then
   val="$define"
fi
set d_sockaddr_storage; eval $setvar
$rm_try

echo "Checking the availability sin6_scope_id in struct sockaddr_in6 ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct sockaddr_in6 sin6;
return (sin6.sin6_scope_id);
}
EOF
val="$undef"
set try; if eval $compile; then
   val="$define"
fi
set d_sin6_scope_id; eval $setvar
$rm_try

echo "Checking the availability struct ip_mreq ..." >&4
$cat >try.c <<EOF
```

```
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct ip_mreq mreq;
return (mreq.imr_multiaddr.s_addr);
}
EOF
val="$undef"
set try; if eval $compile; then

 val="$define"
fi
set d_ip_mreq; eval $setvar
$rm_try

echo "Checking the availability struct ip_mreq_source ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct ip_mreq_source mreq;
return (mreq.imr_multiaddr.s_addr);
}
EOF
val="$undef"
set try; if eval $compile; then
     val="$define"
fi
set d_ip_mreq_source; eval $setvar
$rm_try

echo "Checking the availability struct ipv6_mreq ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct ipv6_mreq mreq;
return (mreq.ipv6mr_interface);
}
EOF
val="$undef"
set try; if eval $compile; then
   val="$define"
fi
set d_ipv6_mreq; eval $setvar
```

```
$rm_try

echo "Checking the availability struct ipv6_mreq_source ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct ipv6_mreq_source mreq;
return (mreq.imr_multiaddr.s_addr);
}
EOF
val="$undef"
set try; if eval $compile;
 then
      val="$define"
fi
set d_ipv6_mreq_source; eval $setvar
$rm_try

?X: these constants are known to be troublesomely defined as enums
?X: so that ifdef will not work for detecting their presence.
echo "Checking the availability of certain socket constants..." >&4
for ENUM in MSG_CTRUNC MSG_DONTROUTE MSG_OOB MSG_PEEK MSG_PROXY SCM_RIGHTS; do
   enum=`$echo $ENUM|./tr '[A-Z]' '[a-z]'`
   $cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
int main() {
   int i = $ENUM;
}
EOF
   val="$undef"
   set try; if eval $compile; then
 val="$define"
   fi
   set d_${enum}; eval $setvar
   $rm_try
done
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_socket.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_varhdr.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_varhdr.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:54:42  ram
?RCS: patch61: varargs script now starts with leading "startsh"
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:21:02  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/13  15:26:05  ram
?RCS: patch27: this unit now supersedes old i_stdarg.U and i_varargs.U
?RCS: patch27: modified to avoid spurious Whoa warnings (ADO)
?RCS:
?RCS: Revision 3.0
  1993/08/18  12:08:49  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_stdarg i_varargs i_varhdr: cat +cc +ccflags rm test Setvar \
 Findhdr startsh _o
?MAKE: -pick add $@ %<
?S:i_stdarg:
?S: This variable conditionally defines the I_STDARG symbol, which
?S: indicates to the C program that <stdarg.h> exists and should
?S: be included.
?S:.
?S:i_varargs:
?S: This variable conditionally defines I_VARARGS, which indicates
?S: to the C program that it should include <varargs.h>.
?S:.
?S:i_varhdr:
?S: Contains the name of the header to be included to get va_dcl definition.
?S: Typically one of varargs.h or stdarg.h.
?S:.
?C:I_STDARG:
?C: This symbol, if defined, indicates that <stdarg.h> exists and should
?C: be included.
?C:.
?C:I_VARARGS:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <varargs.h>.
?C:.
?H:#$i_stdarg I_STDARG  /**/
?H:#$i_varargs I_VARARGS /**/
```

```
?H:.
?W:%<:va_dcl
?F:!varargs
?T:valstd
?LINT:set i_stdarg i_varargs
?X:
?X:
 Don't use setvar because the varargs test below might override these.
?X: Actually, the messages here are just informative. We don't wish to set
?X: i_varargs or i_stdarg to their final value before knowing which of the
?X: two we'll include.
?X:
: see if stdarg is available
echo " "
if $test `./findhdr stdarg.h`; then
 echo "<stdarg.h> found." >&4
 valstd="$define"
else
 echo "<stdarg.h> NOT found." >&4
 valstd="$undef"
fi

: see if varargs is available
echo " "
if $test `./findhdr varargs.h`; then
 echo "<varargs.h> found." >&4
else
 echo "<varargs.h> NOT found, but that's ok (I hope)." >&4
fi

?X:
?X: if you have stdarg.h, you need to support prototypes to actually use it;
?X: but if stdarg.h exists and the compiler doesn't support prototypes (for some
?X: bizarre reason), we'll fall back to varargs.h anyway so it's not so bad.
?X:
: set up the varargs testing programs
$cat > varargs.c <<EOP
#ifdef I_STDARG
#include <stdarg.h>
#endif
#ifdef I_VARARGS
#include <varargs.h>
#endif

#ifdef
 I_STDARG
int f(char *p, ...)
#else
```

```
int f(va_alist)
va_dcl
#endif
{
 va_list ap;
#ifndef I_STDARG
 char *p;
#endif
#ifdef I_STDARG
 va_start(ap,p);
#else
 va_start(ap);
 p = va_arg(ap, char *);
#endif
 va_end(ap);
 return 0;
}
EOP
$cat > varargs <<EOP
$startsh
if $cc -c $ccflags -D\$1 varargs.c >/dev/null 2>&1; then
 echo "true"
else
 echo "false"
fi
$rm -f varargs$_o
EOP
chmod +x varargs

: now check which varargs header should be included
echo " "
i_varhdr=''
val=''
case "$valstd" in
"$define")
 if `./varargs I_STDARG`; then
  val='stdarg.h'
 elif `./varargs I_VARARGS`; then
  val='varargs.h'
 fi
 ;;
*)
 if `./varargs I_VARARGS`; then
  val='varargs.h'
 fi
 ;;
esac
case "$val" in
```

```
")
 echo " "
 echo "*** WHOA THERE!!! ***" >&4
 echo "    Your C compiler \"$cc\" doesn't seem to support stdarg or varargs!" >&4
 case "$knowitall" in
 ")
 echo "    I'm giving up; maybe you can try again with a different compiler?" >&4
  exit 1
  ;;
 esac
echo "I could not find the definition for va_dcl...
 You have problems..." >&4
 val="$undef"; set i_stdarg; eval $setvar
 val="$undef"; set i_varargs; eval $setvar
 ;;
*)
 set i_varhdr
 eval $setvar
 case "$i_varhdr" in
 stdarg.h)
  val="$define"; set i_stdarg; eval $setvar
  val="$undef"; set i_varargs; eval $setvar
  ;;
 varargs.h)
  val="$undef"; set i_stdarg; eval $setvar
  val="$define"; set i_varargs; eval $setvar
  ;;
 esac
 echo "We'll include <$i_varhdr> to get va_dcl definition." >&4;;
esac
$rm -f varargs*
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_varhdr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_netdb.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_netdb: Inhdr
?MAKE: -pick add $@ %<
?S:i_netdb:
?S: This variable conditionally defines the I_NETDB symbol, and indicates
```

```
?S: whether a C program should include <netdb.h>.
?S:.
?C:I_NETDB:
?C: This symbol, if defined, indicates that <netdb.h> exists and
?C: should be included.
?C:.
?H:#$i_netdb I_NETDB  /**/
?H:.
?LINT:set i_netdb
: see if this is a netdb.h system
set netdb.h i_netdb
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_netdb.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Typedef.U,v $
?RCS: Revision 3.0.1.3  1995/07/25  13:42:07  ram
?RCS: patch56: added backslash escapes within evals to prevent space problems
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:01:16  ram
?RCS: patch36: don't clobber visible 'val' variable, use 'varval' instead
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:05:14  ram
?RCS: patch32: created
?RCS:
?X:
?X: This unit checks for the definition of a given typedef.
?X:
?X: To use it, say:
?X: set typedef val_t default [includes]
?X: eval $typedef
?X:
?MAKE:Typedef:
 cppstdin cppminus cppflags rm contains Oldconfig
?MAKE: -pick add $@ %<
```

```
?F:!temp.c
?LINT:define typedef
?V:typedef
?S:typedef:
?S: This shell variable is used internally by Configure to check
?S: wether a given typedef is defined or not. A typical use is:
?S:  set typedef val_t default [includes]
?S:  eval $typedef
?S: That will return val_t set to default if the typedef was not found,
?S: to typedef otherwise. If no includes are specified, look in sys/types.h.
?S:.
?T:type var def inclist varval inc
: define an is-a-typedef? function
typedef='type=$1; var=$2; def=$3; shift; shift; shift; inclist=$@;
case "$inclist" in
"") inclist="sys/types.h";;
esac;
eval "varval=\$$var";
case "$varval" in
"")
 $rm -f temp.c;
 for inc in $inclist; do
  echo "#include <$inc>" >>temp.c;
 done;
 $cppstdin $cppflags $cppminus < temp.c >temp.E 2>/dev/null;
 if $contains $type temp.E >/dev/null 2>&1; then
  eval "$var=\$type";
 else
  eval "$var=\$def";
 fi;
 $rm -f temp.?;;
*) eval
 "$var=\$varval";;
esac'
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Typedef.U
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```
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```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Csym.U,v $
?RCS: Revision 3.0.1.4  1995/07/25  13:36:29  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS: patch56: added quotes for OS/2 support
?RCS:
?RCS: Revision 3.0.1.3  1995/05/12  12:00:33  ram
?RCS: patch54: fixed C test program to bypass gcc builtin type checks (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/10/31  09:34:13  ram
?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:00:05  ram
?RCS:
 patch6: added ldflags as a conditional dependency and to compile line
?RCS: patch6: a final double quote was missing in csym variable after eval
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:Csym: Options contains libc libs runnm +cc +ccflags +ldflags rm
?MAKE: -pick add $@ %<
?LINT:define csym
?LINT:use libc
?S:csym:
?S: This shell variable is used internally by Configure to check
?S: wether a given C symbol is defined or not. A typical use is:
?S:  set symbol result [-fva] [previous]
?S:  eval $csym
?S: That will set result to 'true' if the function [-f], variable [-v]
?S: or array [-a] is defined, 'false' otherwise. If a previous value is
?S: given and the -r flag was provided on the command line, that value
?S: is reused without questioning.
?S:.
?V:csym
?T:tval tx tlook tf tdc tc
: is a C symbol defined?
csym='tlook=$1;
case "$3" in
-v) tf=libc.tmp; tc=""; tdc="";;
-a) tf=libc.tmp; tc="[0]"; tdc="[]";;
*) tlook="^$1\$";
 tf=libc.list; tc=""; tdc="()";;
esac;
tx=yes;
case "$reuseval-$4" in
true-) ;;
```

```
true-*) tx=no; eval "tval=\$$4"; case "$tval" in "") tx=yes;; esac;;
esac;
case "$tx" in
yes)
 case "$runnm" in
 true)
  if $contains $tlook $tf >/dev/null 2>&1;
  then tval=true;
  else tval=false;
  fi;;
 *)
?X:
?X: We use 'char' instead of 'int' to try to circumvent overzealous
?X: optimizing compilers using built-in prototypes for commonly used
?X: routines to complain when seeing a different external declaration. For
?X: instance, gcc 2.6.3 fails if we use 'int' and we attempt a test against
?X: memcpy() on machines where sizeof(int) == sizeof(char *) (the usual return
?X: type), the compiler assuming it's a built-in declaration given that the
?X: returned size matches. At least with 'char' we are safe! -- RAM, for ADO
?X:
?X: Let's thank GNU cc for making our lifes so easy! :-)
?X: (An alternative for the future would be to use our knowledge about gcc
?X: to force a -fno-builtin option in the
 compile test, in case the 'char'
?X: trick is obsoleted by future gcc releases). -- RAM
?X:
?X: Lastly, gcc 3.4 otimizes &missing == 0 away, so we use + 2 instead now.
?X: The GNU folks like to do weird things, don't they? -- RAM, 2004-06-05
?X:
  echo "extern char $1$tdc; int main() { return &$1$tc + 2; }" > t.c;
  if $cc $ccflags $ldflags -o t t.c $libs >/dev/null 2>&1;
  then tval=true;
  else tval=false;
  fi;
  $rm -f t t.c;;
 esac;;
*)
 case "$tval" in
 $define) tval=true;;
 *) tval=false;;
 esac;;
esac;
eval "$2=$tval"'
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Csym.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_fp.U,v $
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_fp: Inhdr
?MAKE: -pick add $@ %<
?S:i_fp:
?S: This variable conditionally defines the I_FP symbol, and indicates
?S: whether a C program should include <fp.h>.
?S:.
?C:I_FP:
?C: This symbol, if defined, indicates that <fp.h> exists and
?C: should be included.
?C:.
?H:#$i_fp I_FP  /**/
?H:.
?LINT:set i_fp
: see if this is a fp.h system
set fp.h i_fp
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_fp.U
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```
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?RCS:
?MAKE:d_remainder: Inlibc
?MAKE: -pick add $@ %<
?S:d_remainder:
?S: This variable conditionally defines the HAS_REMAINDER symbol, which
?S: indicates to the C program that the remainder() routine is available.
?S:.
?C:HAS_REMAINDER:
?C: This symbol, if defined, indicates that the remainder routine is
?C: available to return the floating-point remainder.
?C:.
?H:#$d_remainder HAS_REMAINDER  /**/
?H:.
?LINT:set d_remainder
: see if remainder exists
```

```
set remainder d_remainder
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_remainder.U
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```
?RCS: $Id: i_unistd.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_unistd.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_unistd: Inhdr
?MAKE: -pick add $@ %<
?S:i_unistd:
?S: This variable conditionally defines the I_UNISTD symbol, and indicates
?S: whether a C program should include <unistd.h>.
?S:.
?C:I_UNISTD:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <unistd.h>.
?C:.
?H:#$i_unistd I_UNISTD  /**/
?H:.
?LINT:set
 i_unistd
: see if this is a unistd.h system
set unistd.h i_unistd
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_unistd.U
No license file was found, but licenses were detected in source scan.

```
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```

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_libm_lib_version: Compile cat run rm_try
?MAKE: -pick add $@ %<
?S:d_libm_lib_version:
?S: This variable conditionally defines the LIBM_LIB_VERSION symbol,
?S: which indicates to the C program that math.h defines _LIB_VERSION
?S: being available in libm
?S:.
?C:LIBM_LIB_VERSION:
?C: This symbol, if defined, indicates that libm exports _LIB_VERSION
?C: and that math.h defines the enum to manipulate it.
?C:.
?H:#$d_libm_lib_version LIBM_LIB_VERSION  /**/
?H:.
?T:foo
?F:!try
: check to see if math.h defines _LIB_VERSION
d_libm_lib_version="$undef"
echo " "
echo "Checking to see if your libm supports _LIB_VERSION..." >&4
$cat >try.c <<EOCP
#include <unistd.h>
#include <math.h>
int main (int argc, char *argv[])
{
    printf ("%d\n", _LIB_VERSION);
   return (0);
   } /* main */
EOCP
set try
if eval $compile; then
   foo=`$run ./try`
   echo "Yes, it does ($foo)" >&4
   d_libm_lib_version="$define"
else
   echo "No, it does not (probably harmless)" >&4
   fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_libm_lib_version.U
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```
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?RCS:
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```

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:sitehtml1dir sitehtml1direxp installsitehtml1dir: Getfile \
 Setprefixvar prefix siteprefix html1dir sed
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitehtml1dir=''
?S:sitehtml1dir:
?S: This variable contains the name of the directory in which site-specific
?S: html source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S: The standard distribution will put nothing in this directory.
?S: After perl
 has been installed, users may install their own local
?S: html pages in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitehtml1direxp=''
?S:sitehtml1direxp:
?S: This variable is the same as the sitehtml1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsitehtml1dir=''
?S:installsitehtml1dir:
?S: This variable is really the same as sitehtml1direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: html1direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installsitehtml1dir
?LINT:set sitehtml1dir
?LINT:set sitehtml1direxp
: determine where add-on html pages go
: There is no standard location, so try to copy the previously-selected
: directory structure for the core html pages.
case "$sitehtml1dir" in
'')
   dflt=`echo "$html1dir" | $sed "s#^$prefix#$siteprefix#"` ;;
*)     dflt=$sitehtml1dir ;;
esac
```

```
case "$dflt" in
"|' ') dflt=none ;;
esac
fn=dn+~
rp='Pathname where the site-specific html pages should be installed?'
. ./getfile
prefixvar=sitehtml1dir
. ./setprefixvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/sitehtml1dir.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_snprintf d_vsnprintf : Inlibc Compile cat run rm_try
?MAKE: -pick add $@ %<
?S:d_snprintf:
?S: This variable conditionally defines the HAS_SNPRINTF symbol, which
?S: indicates to the C program that the snprintf () library function
?S: is available.
?S:.
?S:d_vsnprintf:
?S: This variable conditionally defines the HAS_VSNPRINTF symbol, which
?S: indicates to the C program that the vsnprintf () library function
?S: is available.
?S:.
?C:HAS_SNPRINTF:
?C: This symbol, if defined, indicates that the snprintf () library
?C: function
 is available for use.
?C:.
?C:HAS_VSNPRINTF:
?C: This symbol, if defined, indicates that the vsnprintf () library
?C: function is available for use.
?C:.
?H:#$d_snprintf HAS_SNPRINTF /**/
?H:#$d_vsnprintf HAS_VSNPRINTF /**/
?H:.
?F:!try
: see if snprintf exists
```

```
set snprintf d_snprintf
eval $inlibc

: see if vsnprintf exists
set vsnprintf d_vsnprintf
eval $inlibc

case "$d_snprintf-$d_vsnprintf" in
"$define-$define")
   $cat <<EOM
Checking whether your snprintf() and vsnprintf() work okay...
EOM
   $cat >try.c <<'EOCP'
/* v?snprintf testing logic courtesy of Russ Allbery.
* According to C99:
* - if the buffer is too short it still must be \0-terminated
* - if the buffer is too short the potentially required length
*   must be returned and not -1
* - if the buffer is NULL the potentially required length
*   must be returned and not -1 or core dump
*/
#include <stdio.h>
#include <stdarg.h>

char buf[2];

int test (char *format, ...)
{
   va_list args;
   int count;

   va_start
 (args, format);
   count = vsnprintf (buf, sizeof buf, format, args);
   va_end (args);
   return count;
}

int main ()
{
   return ((test ("%s", "abcd") == 4 && buf[0] == 'a' && buf[1] == '\0'
           && snprintf (NULL, 0, "%s", "abcd") == 4) ? 0 : 1);
}
EOCP
   set try
   if eval $compile; then
 `$run ./try`
 case "$?" in
```

```
 0) echo "Your snprintf() and vsnprintf() seem to be working okay." ;;
 *) cat <<EOM >&4
Your snprintf() and snprintf() don't seem to be working okay.
EOM
    d_snprintf="$undef"
    d_vsnprintf="$undef"
    ;;
 esac
   else
 echo "(I can't seem to compile the test program--assuming they don't)"
 d_snprintf="$undef"
 d_vsnprintf="$undef"
   fi
   $rm_try
   ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_snprintf.U
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?RCS:
?MAKE:d_strftime: Inlibc
?MAKE: -pick add $@ %<
?S:d_strftime:
?S: This variable conditionally defines the HAS_STRFTIME symbol, which
?S: indicates to the C program that the strftime() routine is available.
?S:.
?C:HAS_STRFTIME:
?C: This symbol, if defined, indicates that the strftime routine is
?C: available to do time formatting.
?C:.
?H:#$d_strftime HAS_STRFTIME  /**/
?H:.
?LINT:set d_strftime
: see if strftime exists
set strftime d_strftime
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/perl/d_strftime.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Prefixup.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Prefixup.U,v $
?RCS: Revision 3.0.1.1  1995/01/30  14:30:40  ram
?RCS: patch49: created
?RCS:
?X:
?X: Used as: "set dflt; eval $prefixup" to set $dflt to be $prefix/dir
?X: instead of $prefixexp/dir, in case portability was involved somehow
?X: and $prefix uses ~name expansion.
?X:
?MAKE:Prefixup: prefix prefixexp
?MAKE: -pick add $@ %<
?LINT:define prefixup
?S:prefixup:
?S: This shell variable is used internally by Configure to reset
?S: the leading
 installation prefix correctly when $prefix uses
?S: ~name expansion.
?S:  set dflt
?S:  eval $prefixup
?S: That will set $dflt to $prefix/dir if it was $prefixexp/dir and
?S: $prefix differs from $prefixexp.
?S:.
?V:prefixup
: set the prefixup variable, to restore leading tilda escape
prefixup='case "$prefixexp" in
"$prefix") ;;
*) eval "$1=\`echo \$$1 | sed \"s,^$prefixexp,$prefix,\"\`";;
esac'
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Prefixup.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_hidnet.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_hidnet.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:20  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_hidnet hiddennet: cat sed myhostname mydomain Myread Oldconfig
?MAKE: -pick add $@ %<
?S:d_hidnet:
?S: This variable conditionally defines the symbol HIDDEN_NET, which
?S: tells the C program that it should pretend it is on a different
?S: host for purposes of advertising a mailing address.
?S:.
?S:hiddennet:
?S: This variable contains
 the value eventually given to the symbol
?S: HIDDEN_NET, if d_hidnet defines it.  If defined, it's the name
?S: of the host which serves as the mail server for a network that
?S: is invisible to the outside world.
?S:.
?C:HIDDEN_NET (HIDDENNET):
?C: This symbol, if defined, contains the host name that you want to
?C: advertise to the outside world.  This name can be different from
?C: your actual host name, as long as the machine you specify knows
?C: how to forward mail to you.
?C:.
?H:#$d_hidnet HIDDEN_NET "$hiddennet" /**/
?H:.
: now get the host name to advertise as our mailing address
case "$hiddennet" in
") dflt=n;;
*) dflt=y;;
esac
$cat <<EOM

Some sites are on "hidden" networks, in the sense that the network appears
to the outside world as a single machine.  The advertised name of any host
on this hidden network is the name of one machine on the local network which
knows how to forward mail to any other host on the hidden network.

Do you wish to advertise a different hostname
```

```
 to the world than the one your
own host ($myhostname$mydomain) has?

EOM
rp='Use "hidden" network?'
. ./myread
case "$ans" in
n*) d_hidnet="$undef" hiddennet="";;
*)
 d_hidnet="$define"
 echo " "
 case "$hiddennet" in
 "") dflt=`echo $mydomain | $sed -e 's/^\.//'`;;
 *) dflt="$hiddennet";;
 esac
 rp='What hostname do you wish to advertise?'
 . ./myread
 hiddennet="$ans"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_hidnet.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2014-2014, Karl Williamson & H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_wcsxfrm: Compile cat rm_try run Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_wcsxfrm:
?S: This variable conditionally defines the HAS_WCSXFRM symbol if the
?S: wcsxfrm() routine is available and can be used to compare wide
?S: character strings.
?S:.
?C:HAS_WCSXFRM:
?C: This symbol, if defined, indicates that the wcsxfrm routine is
?C: available to tranform a wide character string for wcscmp().
?C:.
?H:#$d_wcsxfrm HAS_WCSXFRM /**/
?H:.
?F:!try
```

```
?LINT: set d_wcsxfrm
: look for wcsxfrm
echo " "
$cat >try.c <<'EOCP'
#include
 <errno.h>
#include <wchar.h>
int main ()
{
   wchar_t dst[4], *src = L" ";
   errno = 0;
   return (wcsxfrm (dst, src, 1) ? errno ? errno : 0 : 1);
   }
EOCP
set try
?X: if $cc $ccflags $ldflags -o try try.c $libs >/dev/null 2>&1 ; then
val="$undef"
if eval $compile; then
   `$run ./try`
   case "$?" in
 0)  echo "A working wcsxfrm() found." >&4
     val="$define" ;;
 *)  echo "wcsxfrm() found, but it doesn't work" >&4
     ;;
 esac
else
   echo "wcsxfrm() NOT found." >&4
   fi
set d_wcsxfrm
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_wcsxfrm.U
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```
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?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_stdio_stream_array stdio_stream_array: run \
```

```
 Compile cat rm_try Oldconfig Myread Setvar
?MAKE: -pick add $@ %<
?S:d_stdio_stream_array:
?S: This variable tells whether there is an array holding
?S: the stdio streams.
?S:.
?S:stdio_stream_array:
?S: This variable tells the name of the array holding the stdio streams.
?S: Usual values include _iob, __iob, and __sF.
?S:.
?C:HAS_STDIO_STREAM_ARRAY:
?C: This symbol, if defined, tells that there is an array
?C: holding the stdio streams.
?C:.
?C:STDIO_STREAM_ARRAY:
?C: This
 symbol tells the name of the array holding the stdio streams.
?C: Usual values include _iob, __iob, and __sF.
?C:.
?H:#$d_stdio_stream_array HAS_STDIO_STREAM_ARRAY /**/
?H:?%<:#ifdef HAS_STDIO_STREAM_ARRAY
?H:?%<:#define STDIO_STREAM_ARRAY $stdio_stream_array
?H:?%<:#endif
?H:.
?T:s
?F:!try
: Check stream access
$cat >&4 <<EOM
Checking how to access stdio streams by file descriptor number...
EOM
case "$stdio_stream_array" in
") $cat >try.c <<EOCP
#include <stdio.h>
int main() {
 if (&STDIO_STREAM_ARRAY[fileno(stdin)] == stdin)
   printf("yes\n");
}
EOCP
 for s in _iob __iob __sF
 do
        set try -DSTDIO_STREAM_ARRAY=$s
  if eval $compile; then
   case "`$run ./try`" in
   yes) stdio_stream_array=$s; break ;;
   esac
  fi
 done
 $rm_try
```

```
esac
case "$stdio_stream_array" in
") $cat >&4 <<EOM
I can't figure out how to access stdio streams by file descriptor number.
EOM
 d_stdio_stream_array="$undef"
 ;;
*) $cat >&4 <<EOM
You can access stdio streams by file descriptor number
 by the $stdio_stream_array array.
EOM
 d_stdio_stream_array="$define"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/stdio_streams.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_nearbyint: Inlibc
?MAKE: -pick add $@ %<
?S:d_nearbyint:
?S: This variable conditionally defines HAS_NEARBYINT if nearbyint()
?S: is available to return the integral value closest to (according to
?S: the current rounding mode) to x.
?S:.
?C:HAS_NEARBYINT:
?C: This symbol, if defined, indicates that the nearbyint routine is
?C: available to return the integral value closest to (according to
?C: the current rounding mode) to x.
?C:.
?H:#$d_nearbyint HAS_NEARBYINT  /**/
?H:.
?LINT:set d_nearbyint
: see if nearbyint exists
set nearbyint d_nearbyint
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_nearbyint.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_getprpwnam: Inlibc
?MAKE: -pick add $@ %<
?S:d_getprpwnam:
?S: This variable conditionally defines HAS_GETPRPWNAM if getprpwnam() is
?S: available to retrieve protected (shadow) password entries by name.
?S:.
?C:HAS_GETPRPWNAM:
?C: This symbol, if defined, indicates that the getprpwnam system call is
?C: available to retrieve protected (shadow) password entries by name.
?C:.
?H:#$d_getprpwnam HAS_GETPRPWNAM  /**/
?H:.
?LINT:set d_getprpwnam
: see if getprpwnam exists
set getprpwnam d_getprpwnam
eval $inlibc

Found
 in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
5.36.0/U/perl/d_getprpwnam.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_getnent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_getnent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getnent: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_getnent:
?S: This variable conditionally defines HAS_GETNETENT if getnetent() is
?S: available to look up network names in some data base or another.
?S:.
?C:HAS_GETNETENT:
?C: This symbol, if defined, indicates that the getnetent() routine is
?C: available to look up network names in some data base
 or another.
?C:.
?H:#$d_getnent HAS_GETNETENT  /**/
?H:.
?LINT:set d_getnent
: see if getnetent exists
set getnetent d_getnent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_getnent.U
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```
?RCS: $Id$
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_ndbm.U,v $
?RCS: Revision 3.0.1.1  1995/05/12  12:16:53  ram
?RCS: patch54: made more robust by checking both header and lib (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:23  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_ndbm: Inhdr Inlibc Setvar
?MAKE: -pick add $@ %<
?S:i_ndbm (d_ndbm):
?S: This variable conditionally defines the I_NDBM symbol, which
?S: indicates to the C program that <ndbm.h> exists and should
?S: be included.
?S:.
?C:I_NDBM (HAS_NDBM NDBM):
?C: This
```

```
 symbol, if defined, indicates that <ndbm.h> exists and should
?C: be included.
?C:.
?H:#$i_ndbm I_NDBM /**/
?H:.
?T:t_ndbm d_dbm_open
?LINT:set i_ndbm
: see if ndbm.h is available
?X: t_ndbm is a tentative check.  We might just have the .h, not the lib -- ADO
set ndbm.h t_ndbm
eval $inhdr
case "$t_ndbm" in
$define)
 : see if dbm_open exists
 set dbm_open d_dbm_open
 eval $inlibc
 case "$d_dbm_open" in
 $undef)
  t_ndbm="$undef"
  echo "We won't be including <ndbm.h>"
  ;;
 esac
 ;;
esac
val="$t_ndbm"
set i_ndbm
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_ndbm.U
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```
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?RCS:
?MAKE:d_atoll: Inlibc
?MAKE: -pick add $@ %<
?S:d_atoll:
?S: This variable conditionally defines the HAS_ATOLL symbol, which
?S: indicates to the C program that the atoll() routine is available.
?S:.
?C:HAS_ATOLL:
?C: This symbol, if defined, indicates that the atoll routine is
```

```
?C: available to convert strings into long longs.
?C:.
?H:#$d_atoll HAS_ATOLL  /**/
?H:.
?LINT:set d_atoll
: see if atoll exists
set atoll d_atoll
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/atoll.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sjis2jis.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sjis2jis.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:25  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sjis2jis: Inlibc
?MAKE: -pick add $@ %<
?S:d_sjis2jis:
?S: This variable conditionally defines the HAS_SJIS2JIS symbol, which
?S: indicates to the C program that the sjis2jis() routine is available
?S: to convert SJIS to JIS.
?S:.
?C:HAS_SJIS2JIS:
?C: This symbol, if defined, indicates that the sjis2jis routine is
?C: available
 to convert SJIS to JIS.
?C:.
?H:#$d_sjis2jis HAS_SJIS2JIS  /**/
?H:.
?LINT:set d_sjis2jis
: see if sjis2jis exists
set sjis2jis d_sjis2jis
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sjis2jis.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_syslog.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_syslog.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:46:56  ram
?RCS: patch61: replaced .o with $_o all over the place
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:43  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_syslog: test Csym Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_syslog:
?S: This variable conditionally defines the HAS_SYSLOG symbol, which
?S: indicates to the C program that syslog() exists on this system.
?S:.
?C:HAS_SYSLOG
 (LIBSYSLOG):
?C: This symbol, if defined, indicates that the program can rely on the
?C: system providing syslog().  Otherwise, the syslog code provided by
?C: the package should be used.
?C:.
?H:#$d_syslog HAS_SYSLOG /**/
?H:.
?LINT:set d_syslog
: see if syslog is available
echo " "
if $test `./findhdr syslog.h` && \
 (set syslog val -f d_syslog; eval $csym; $val); then
 echo "syslog() found." >&4
 val="$define"
else
 echo "syslog() not found in your C library." >&4
 val="$undef"
fi
set d_syslog
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_syslog.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: h_fcntl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: h_fcntl.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:12  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:h_fcntl: Nothing
?MAKE: -pick add $@ %<
?S:h_fcntl:
?S: This is variable gets set in various places to tell i_fcntl that
?S: <fcntl.h> should be included.
?S:.
: Initialize h_fcntl
h_fcntl=false
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/h_fcntl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ffs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_ffs.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:d_ffs d_ffsl: Inlibc
?MAKE: -pick add $@ %<
?S:d_ffs:
?S: This variable conditionally defines the HAS_FFS symbol, which
?S: indicates to the C program that the ffs() routine is available
?S: to find the first bit which is set in its integer argument.
?S:.
?S:d_ffsl:
?S: This variable conditionally defines the HAS_FFSL symbol, which
?S: indicates
 to the C program that the ffsl() routine is available
?S: to find the first bit which is set in its long integer argument.
?S:.
?C:HAS_FFS:
?C: This symbol, if defined, indicates that the ffs routine is available
?C: to find the first bit set in its argument.  If it's not available,
?C: roll your own.
?C:.
?C:HAS_FFSL:
?C: This symbol, if defined, indicates that the ffsl routine is available
?C: to find the first bit set in its argument.  If it's not available,
?C: roll your own.
?C:.
?H:#$d_ffs HAS_FFS  /**/
?H:#$d_ffsl HAS_FFSL  /**/
?H:.
?LINT:set d_ffs d_ffsl
: see if ffs exists
set ffs d_ffs
eval $inlibc
: see if ffsl exists
set ffsl d_ffsl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_ffs.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: i_dirent.U,v $
?RCS: Revision 3.0.1.4  1994/10/29  16:20:01  ram
?RCS: patch36: failed scanning for 'd_namlen' with missing <dirent.h> (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:01:25  ram
?RCS: patch30: added direntrytype for hints, merely for NeXT (ADO)
?RCS: patch30: now checks for both struct dirent and direct (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:22:37  ram
?RCS: patch27: new variable direntrytype for proper type setting (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24
 14:11:15  ram
?RCS: patch16: added new Direntry_t pseudo-type for directory entries
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit looks whether there is a dirent system or not
?X:
?MAKE:i_dirent d_dirnamlen direntrytype: test contains Setvar \
 Myread Findhdr cppstdin cppflags cppminus rm_try
?MAKE: -pick add $@ %<
?S:i_dirent:
?S: This variable conditionally defines I_DIRENT, which indicates
?S: to the C program that it should include <dirent.h>.
?S:.
?S:d_dirnamlen:
?S: This variable conditionally defines DIRNAMLEN, which indicates
?S: to the C program that the length of directory entry names is
?S: provided by a d_namelen field.
?S:.
?S:direntrytype:
?S: This symbol is set to 'struct direct' or 'struct dirent' depending on
?S: whether dirent is available or not. You should use this pseudo type to
?S: portably declare your directory entries.
?S:.
?C:I_DIRENT:
?C: This symbol, if defined, indicates to the C program
 that it should
?C: include <dirent.h>. Using this symbol also triggers the definition
?C: of the Direntry_t define which ends up being 'struct dirent' or
?C: 'struct direct' depending on the availability of <dirent.h>.
?C:.
?C:DIRNAMLEN:
?C: This symbol, if defined, indicates to the C program that the length
```

```
?C: of directory entry names is provided by a d_namlen field.  Otherwise
?C: you need to do strlen() on the d_name field.
?C:.
?C:Direntry_t:
?C: This symbol is set to 'struct direct' or 'struct dirent' depending on
?C: whether dirent is available or not. You should use this pseudo type to
?C: portably declare your directory entries.
?C:.
?H:#$i_dirent I_DIRENT  /**/
?H:#$d_dirnamlen DIRNAMLEN /**/
?H:?%<:@if I_DIRENT && Direntry_t
?H:?%<:#define Direntry_t $direntrytype
?H:?%<:@end
?H:.
?T:xinc guess1 guess2
?LINT:set i_dirent d_dirnamlen
: see if this is a dirent system
echo " "
if xinc=`./findhdr dirent.h`; $test "$xinc"; then
 val="$define"
 echo "<dirent.h> found." >&4
else
 val="$undef"
 if
 xinc=`./findhdr sys/dir.h`; $test "$xinc"; then
  echo "<sys/dir.h> found." >&4
  echo " "
 else
  xinc=`./findhdr sys/ndir.h`
 fi
 echo "<dirent.h> NOT found." >&4
fi
set i_dirent
eval $setvar

?X: Use struct dirent or struct direct?   If we're using dirent.h,
?X: it's probably struct dirent, but apparently not always.
?X: Assume $xinc still contains the name of the header file we're using.
@if direntrytype || Direntry_t
: Look for type of directory structure.
echo " "
$cppstdin $cppflags $cppminus < "$xinc" > try.c

case "$direntrytype" in
"|' ')
 case "$i_dirent" in
 $define) guess1='struct dirent' ;;
 *) guess1='struct direct'  ;;
```

```
 esac
 ;;
*) guess1="$direntrytype"
 ;;
esac

case "$guess1" in
'struct dirent') guess2='struct direct' ;;
*) guess2='struct dirent' ;;
esac

if $contains "$guess1" try.c >/dev/null 2>&1; then
 direntrytype="$guess1"
 echo "Your directory entries are $direntrytype." >&4
elif $contains "$guess2" try.c >/dev/null 2>&1; then
 direntrytype="$guess2"
 echo
 "Your directory entries seem to be $direntrytype." >&4
else
 echo "I don't recognize your system's directory entries." >&4
 rp="What type is used for directory entries on this system?"
 dflt="$guess1"
 . ./myread
 direntrytype="$ans"
fi
$rm_try

@end

@if d_dirnamlen || DIRNAMLEN
: see if the directory entry stores field length
echo " "
$cppstdin $cppflags $cppminus < "$xinc" > try.c
if $contains 'd_namlen' try.c >/dev/null 2>&1; then
 echo "Good, your directory entry keeps length information in d_namlen." >&4
 val="$define"
else
 echo "Your directory entry does not know about the d_namlen field." >&4
 val="$undef"
fi
set d_dirnamlen
eval $setvar
$rm_try

@end
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/dist/U/i_dirent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_htonl.U,v $
?RCS: Revision 3.0.1.2  1994/08/29  16:09:25  ram
?RCS: patch32: now properly handles htonl() and friends when macros (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:45:00  ram
?RCS: patch23: now also check for htonl() macro (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:22  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_htonl: Inlibc Setvar i_niin i_sysin cat rm contains \
 cppstdin cppflags cppminus
?MAKE: -pick add $@ %<
?S:d_htonl:
?S: This variable conditionally
 defines HAS_HTONL if htonl() and its
?S: friends are available to do network order byte swapping.
?S:.
?C:HAS_HTONL (HTONL):
?C: This symbol, if defined, indicates that the htonl() routine (and
?C: friends htons() ntohl() ntohs()) are available to do network
?C: order byte swapping.
?C:.
?C:HAS_HTONS (HTONS):
?C: This symbol, if defined, indicates that the htons() routine (and
?C: friends htonl() ntohl() ntohs()) are available to do network
?C: order byte swapping.
?C:.
?C:HAS_NTOHL (NTOHL):
?C: This symbol, if defined, indicates that the ntohl() routine (and
?C: friends htonl() htons() ntohs()) are available to do network
?C: order byte swapping.
?C:.
?C:HAS_NTOHS (NTOHS):
?C: This symbol, if defined, indicates that the ntohs() routine (and
```

```
?C: friends htonl() htons() ntohl()) are available to do network
?C: order byte swapping.
?C:.
?H:#$d_htonl HAS_HTONL  /**/
?H:#$d_htonl HAS_HTONS  /**/
?H:#$d_htonl HAS_NTOHL  /**/
?H:#$d_htonl HAS_NTOHS  /**/
?H:.
?F:!htonl.c
?LINT:set d_htonl
:
 see if htonl --and friends-- exists
val="
set htonl val
eval $inlibc

: Maybe they are macros.
case "$val" in
$undef)
 $cat >htonl.c <<EOM
#include <stdio.h>
#include <sys/types.h>
#$i_niin I_NETINET_IN
#$i_sysin I_SYS_IN
#ifdef I_NETINET_IN
#include <netinet/in.h>
#endif
#ifdef I_SYS_IN
#include <sys/in.h>
#endif
#ifdef htonl
printf("Defined as a macro.");
#endif
EOM
 $cppstdin $cppflags $cppminus < htonl.c >htonl.E 2>/dev/null
 if $contains 'Defined as a macro' htonl.E >/dev/null 2>&1; then
  val="$define"
  echo "But it seems to be defined as a macro." >&4
 fi
 $rm -f htonl.?
 ;;
esac
set d_htonl
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_htonl.U

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```
?RCS: $Id: startsh.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: startsh.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:25:31  ram
?RCS: patch61: avoid needless chatter since this is now done very early
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:startsh: sh sharpbang eunicefix
?MAKE: -pick add $@ %<
?S:startsh:
?S: This variable contains the string to put on the front of a shell
?S: script to make sure (hopefully) that it runs with sh and not some
?S: other
 shell.
?S:.
?F:!sharp
: figure out how to guarantee sh startup
?X: Avoid needless chatter since this is now done very early.
?X: echo " "
?X: echo "Checking out how to guarantee sh startup..." >&2
case "$startsh" in
") startsh=${sharpbang}${sh} ;;
*)
?X: echo "Let's see if '$startsh' works..." ;;
esac
cat >sharp <<EOSS
$startsh
set abc
test "$?abc" != 1
EOSS

chmod +x sharp
$eunicefix sharp
if ./sharp; then
 : echo "Yup, it does."
else
```

```
 echo "Hmm... '$startsh' does not guarantee sh startup..."
 echo "You may have to fix up the shell scripts to make sure $sh runs them."
fi
rm -f sharp
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/startsh.U
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```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: lns.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  07:05:52  ram
?RCS: patch30: created by ADO
?RCS:
?MAKE:issymlink: lns test rm
?MAKE: -pick add $@ %<
?S:issymlink:
?S: This variable holds the test command to test for a symbolic link
?S: (if they are supported).  Typical values include 'test -h' and
?S: 'test -L'.
?S:.
?T:pth p
?LINT:change PATH test
?LINT:extern newsh
: determine whether symbolic links are supported
echo
 " "
case "$lns" in
*"ln"*" -s")
 echo "Checking how to test for symbolic links..." >&4
 $lns blurfl sym
 if $test "X$issymlink" = X; then
?X:
?X: In some AIX 4 versions the (ksh) builtin test (-h) is broken.
?X:
  case "$newsh" in
```

```
 ") sh     -c "PATH= test -h sym" >/dev/null 2>&1 ;;
 *)  $newsh -c "PATH= test -h sym" >/dev/null 2>&1 ;;
 esac
 if test $? = 0; then
  issymlink="test -h"
 else
  echo "Your builtin 'test -h' may be broken." >&4
  case "$test" in
  /*) ;;
  *) pth=`echo $PATH | sed -e "s/$p_/ /g"`
   for p in $pth
   do
    if test -f "$p/$test"; then
     test="$p/$test"
     break
    fi
   done
   ;;
  esac
  case "$test" in
  /*)
   echo "Trying external '$test -h'." >&4
   issymlink="$test -h"
   if $test ! -h sym >/dev/null 2>&1; then
    echo "External '$test -h' is broken, too." >&4
    issymlink="
   fi
   ;;
  *) issymlink=" ;;
  esac
 fi
fi
if $test "X$issymlink" = X; then
 if $test -L sym 2>/dev/null; then
  issymlink="$test
-L"
  echo "The builtin '$test -L' worked." >&4
 fi
fi
if $test "X$issymlink" != X; then
 echo "You can test for symbolic links with '$issymlink'." >&4
else
 echo "I do not know how you can test for symbolic links." >&4
fi
$rm -f blurfl sym
;;
*) echo "No symbolic links, so not testing for their testing..." >&4
;;
```

```
esac

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/issymlink.U
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?RCS: $Id$
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: man3dir.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:10:34  ram
?RCS: patch61: created
?RCS:
?X:
?X: This was originally specific to perl5.  Since perl5 has man pages that
?X: go in both man1/ and man3/ directories, we need both man1dir
?X: and man3dir.  This unit is basically dist's mansrc.U with
?X: man3 used instead of man everywhere.
?X: I then added various tests because perl5 has *lots* of man3
?X: pages with long file names. -- ADO
?X:
?MAKE:man3dir
 man3direxp man3ext installman3dir: afs cat nroff Loc Oldconfig \
 sed man1dir spackage package Getfile prefix Prefixit Prefixup \
 d_flexfnam privlib Myread
?MAKE: -pick add $@ %<
?Y:TOP
?S:man3dir:
?S: This variable contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?S:man3direxp:
?S: This variable is the same as the man3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?S:installman3dir:
?S: This variable is really the same as man3direxp, unless you are using
```

```
?S: AFS in which case it points to the read/write location whereas
?S: man3direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:man3ext:
?S: This variable contains the extension that the manual
 page should
?S: have: one of 'n', 'l', or '3'.  The Makefile must supply the '.'.
?S: See man3dir.
?S:.
: determine where library module manual pages go
set man3dir man3dir none
eval $prefixit
$cat <<EOM

$spackage has manual pages for many of the library modules.
EOM

case "$nroff" in
nroff)
 $cat <<'EOM'
However, you don't have nroff, so they're probably useless to you.
EOM
 case "$man3dir" in
 ") man3dir="none";;
 esac;;
esac

case "$d_flexfnam" in
undef)
 $cat <<'EOM'
However, your system can't handle the long file names like File::Basename.3.
EOM
 case "$man3dir" in
 ") man3dir="none";;
 esac;;
esac

echo "If you don't want the manual sources installed, answer 'none'."
?X: We dont use /usr/local/man/man3 because some man programs will
?X: only show the /usr/local/man/man3 contents, and not the system ones,
?X: thus man less will show the perl module less.pm, but not the system
?X: less command.  We might also conflict with TCL man pages.
?X: However, something like /opt/perl/man/man3
 is fine.
case "$man3dir" in
") case "$prefix" in
 *$package*) dflt=`echo $man1dir |
```

```
   $sed -e 's/man1/man3/g' -e 's/man\.1/man\.3/g'` ;;
 *) dflt="$privlib/man/man3" ;;
 esac
 ;;
' ') dflt=none;;
*) dflt="$man3dir" ;;
esac
echo " "

fn=dn+~
rp="Where do the $package library man pages (source) go?"
. ./getfile
if test "X$man3direxp" != "X$ansexp"; then
 installman3dir=''
fi

man3dir="$ans"
man3direxp="$ansexp"
case "$man3dir" in
'') man3dir=' '
 installman3dir='';;
esac
if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
manual pages reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installman3dir" in
 '') dflt=`echo $man3direxp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installman3dir";;
 esac
 fn=de~
 rp='Where will man pages be installed?'
 . ./getfile
 installman3dir="$ans"
else
 installman3dir="$man3direxp"
fi

: What suffix
 to use on installed man pages

case "$man3dir" in
' ')
 man3ext='0'
```

```
 ;;
*)
 rp="What suffix should be used for the $package library man pages?"
 case "$man3ext" in
 ") case "$man3dir" in
  *3)  dflt=3 ;;
  *3p) dflt=3p ;;
  *3pm) dflt=3pm ;;
  *l) dflt=l;;
  *n) dflt=n;;
  *o) dflt=o;;
  *p) dflt=p;;
  *C) dflt=C;;
  *L) dflt=L;;
  *L3) dflt=L3;;
  *) dflt=3;;
  esac
  ;;
 *) dflt="$man3ext";;
 esac
 . ./myread
 man3ext="$ans"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/man3dir.U
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```
?RCS: Copyright (c) 2000,2014 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fpclassify d_fp_classify: Inlibc cat Compile rm_try Setvar
?MAKE: -pick add $@ %<
?X:the short story is that C99 says use fpclassify.  But the story is confused
?X:by systems "partially C99" (or fully "pre C99") which either user fpclassify
?X:but with different return values, or they use fp_classify (with the expected)
?X:return values, or they use some other spelling of *fp*class* (sometimes even
?X:without the *fp* part), with yet another set(s) of return values ...
?S:d_fpclassify:
?S: This variable conditionally defines the HAS_FPCLASSIFY symbol, which
?S: indicates to the C program that the fpclassify() routine is available.
?S:.
?S:d_fp_classify:
?S: This variable conditionally defines the HAS_FP_CLASSIFY
```

```
 symbol, which
?S: indicates to the C program that the fp_classify() routine is available.
?S:.
?C:HAS_FPCLASSIFY:
?C: This symbol, if defined, indicates that the fpclassify routine is
?C: available to classify doubles.  Available for example in HP-UX.
?C: The returned values are defined in <math.h> and are
?C:
?C:   FP_NORMAL     Normalized
?C:   FP_ZERO       Zero
?C:   FP_INFINITE   Infinity
?C:   FP_SUBNORMAL  Denormalized
?C:   FP_NAN        NaN
?C:
?C:.
?C:HAS_FP_CLASSIFY:
?C: This symbol, if defined, indicates that the fp_classify routine is
?C: available to classify doubles. The values are defined in <math.h>
?C:
?C:   FP_NORMAL     Normalized
?C:   FP_ZERO       Zero
?C:   FP_INFINITE   Infinity
?C:   FP_SUBNORMAL  Denormalized
?C:   FP_NAN        NaN
?C:
?C:.
?H:#$d_fpclassify HAS_FPCLASSIFY  /**/
?H:#$d_fp_classify HAS_FP_CLASSIFY  /**/
?H:.
?LINT:set d_fpclassify
?LINT:set d_fp_classify
: check for fpclassify
?X:classified (Comment by jhi)
?X:fpclassify i_math
?X:fp_classify i_math
?X:fpclass i_math
 i_ieeefp i_fp
?X:fp_class i_math i_fp_class
?X:  No i_fp_class yet. But the systems that have
?X:  this (Tru64 and IRIX) both had <fp_class.h>
?X:class i_math
echo "Checking to see if you have fpclassify..." >&4
$cat >try.c <<EOCP
#include <math.h>
int main() { return fpclassify(1.0) == FP_NORMAL ? 0 : 1; }
EOCP
set try
if eval $compile; then
```

```
 val="$define"
 echo "You have fpclassify."
else
 val="$undef"
 echo "You do not have fpclassify."
fi
$rm_try
set d_fpclassify
eval $setvar

: see if fp_classify exists
set fp_classify d_fp_classify
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fpclassify.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strerror.U,v $
?RCS: Revision 3.0.1.3  1994/05/13  15:20:27  ram
?RCS: patch27: now uses new macro support for cleaner Strerror def
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  14:58:26  ram
?RCS: patch23: renamed strerror into Strerror to protect name space (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:08:56  ram
?RCS: patch16: protected code looking for sys_errnolist[] with @if
?RCS: patch16: added default value for d_sysernlst
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:35  ram
?RCS: Baseline
 for dist 3.0 netwide release.
?RCS:
?MAKE:d_strerror d_syserrlst d_sysernlst d_strerrm: contains Csym Findhdr
?MAKE: -pick add $@ %<
?S:d_strerror:
?S: This variable conditionally defines HAS_STRERROR if strerror() is
```

```
?S: available to translate error numbers to strings.
?S:.
?S:d_syserrlst:
?S: This variable conditionally defines HAS_SYS_ERRLIST if sys_errlist[] is
?S: available to translate error numbers to strings.
?S:.
?S:d_sysernlst:
?S: This variable conditionally defines HAS_SYS_ERRNOLIST if sys_errnolist[]
?S: is available to translate error numbers to the symbolic name.
?S:.
?S:d_strerrm:
?S: This variable holds what Strerr is defined as to translate an error
?S: code condition into an error message string. It could be 'strerror'
?S: or a more complex macro emulating strrror with sys_errlist[], or the
?S: "unknown" string when both strerror and sys_errlist are missing.
?S:.
?C:HAS_STRERROR (STRERROR):
?C: This symbol, if defined, indicates that the strerror routine is
?C: available
 to translate error numbers to strings. See the writeup
?C: of Strerror() in this file before you try to define your own.
?C:.
?C:HAS_SYS_ERRLIST (SYSERRLIST):
?C: This symbol, if defined, indicates that the sys_errlist array is
?C: available to translate error numbers to strings. The extern int
?C: sys_nerr gives the size of that table.
?C:.
?C:HAS_SYS_ERRNOLIST (SYSERRNOLIST):
?C: This symbol, if defined, indicates that the sys_errnolist array is
?C: available to translate an errno code into its symbolic name (e.g.
?C: ENOENT). The extern int sys_nerrno gives the size of that table.
?C:.
?C:Strerror:
?C: This preprocessor symbol is defined as a macro if strerror() is
?C: not available to translate error numbers to strings but sys_errlist[]
?C: array is there.
?C:.
?H:#$d_strerror HAS_STRERROR  /**/
?H:#$d_syserrlst HAS_SYS_ERRLIST /**/
?H:#$d_sysernlst HAS_SYS_ERRNOLIST /**/
?H:#define Strerror(e) $d_strerrm
?H:.
?D:d_sysernlst=''
?T:xxx val
: see if strerror and/or sys_errlist[]
 exist
echo " "
if set strerror val -f d_strerror; eval $csym; $val; then
```

```
 echo 'strerror() found.' >&4
 d_strerror="$define"
 d_strerrm='strerror(e)'
 if set sys_errlist val -a d_syserrlst; eval $csym; $val; then
  echo "(You also have sys_errlist[], so we could roll our own strerror.)"
  d_syserrlst="$define"
 else
 echo "(Since you don't have sys_errlist[], sterror() is welcome.)"
  d_syserrlst="$undef"
 fi
elif xxx=`./findhdr string.h`; test "$xxx" || xxx=`./findhdr strings.h`; \
 $contains '#[  ]*define.*strerror' "$xxx" >/dev/null 2>&1; then
 echo 'strerror() found in string header.' >&4
 d_strerror="$define"
 d_strerrm='strerror(e)'
 if set sys_errlist val -a d_syserrlst; eval $csym; $val; then
  echo "(Most probably, strerror() uses sys_errlist[] for descriptions.)"
  d_syserrlst="$define"
 else
  echo "(You don't appear to have any sys_errlist[], how can this be?)"
  d_syserrlst="$undef"
 fi
elif set sys_errlist val -a d_syserrlst; eval $csym; $val; then
echo "strerror()
 not found, but you have sys_errlist[] so we'll use that." >&4
 d_strerror="$undef"
 d_syserrlst="$define"
 d_strerrm='((e)<0||(e)>=sys_nerr?"unknown":sys_errlist[e])'
else
 echo 'strerror() and sys_errlist[] NOT found.' >&4
 d_strerror="$undef"
 d_syserrlst="$undef"
 d_strerrm='"unknown"'
fi
@if d_sysernlst || HAS_SYS_ERRNOLIST
if set sys_errnolist val -a d_sysernlst; eval $csym; $val; then
 echo "(Symbolic error codes can be fetched via the sys_errnolist[] array.)"
 d_sysernlst="$define"
else
 echo "(However, I can't extract the symbolic error code out of errno.)"
 d_sysernlst="$undef"
fi
@end
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strerror.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_attribut.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 2020, Raphael Manfredi, Karl Williamson
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_non_int_bitfields: \
    Myread Oldconfig cat cc ccflags Setvar compiler_warning rm_try
?MAKE: -pick add $@ %<
?S:d_non_int_bitfields:
?S: This variable conditionally defines HAS_NON_INT_BITFIELDS
?S: which indicates that the C compiler accepts struct bitfields of sizes
?S: that aren't 'int' or 'unsigned int'
?S:.
?C:HAS_NON_INT_BITFIELDS:
?C: This symbol, if defined, indicates that the C compiler accepts, without
?C: error or warning, struct bitfields
 that are declared with sizes other
?C: than plain 'int'; for example 'unsigned char' is accepted.
?C:.
?H:?%<:#$d_non_int_bitfields HAS_NON_INT_BITFIELDS /**/
?H:.
?LINT:set d_non_int_bitfields
?F:!try.out !try.c
: Look for non 'int'-sized bitfields
case "$d_non_int_bitfields" in
")
echo " " >&4
echo "Checking whether your compiler can handle struct bitfields that aren't 'int' or 'unsigned int' ..." >&4
$cat >try.c <<'EOCP'
#include <stdio.h>
struct foo {
   unsigned char byte:1;
   unsigned short halfword:1;
} bar;
EOCP
if $cc $ccflags -c try.c >try.out 2>&1 ; then
 if $compiler_warning try.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support struct bitfields that aren't 'int' or 'unsigned int'." >&4
  val="$undef"
 else
  echo "Your C compiler supports struct bitfields besides 'int' and 'unsigned int'." >&4
```

```
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand struct bitfields that aren't 'int' or 'unsigned int' at all." >&4
 val="$undef"
fi
;;
*)
 val="$d_non_int_bitfields" ;;
esac
set d_non_int_bitfields
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_bitfield.U
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```
?RCS: $Id: perl5.U,v $
?RCS:
?RCS: Copyright (c) 2000 Andrew Dougherty
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: perl5.U,v $
?RCS:
?X:
?X: The purpose of this unit is to locate a previously installed
?X: version of perl5 suitable for running inc_version_list.U.
?X: We check for 5.005 and later because inc_version_list is
?X: irrelevant for earlier versions.
?X:
?MAKE:perl5: path_sep binexp test sed exe_ext
?MAKE: -pick add $@ %<
?Y:TOP
?S:perl5:
?S: This variable contains the full path (if any) to a previously
?S: installed perl5.005 or later suitable for running the script
?S: to determine inc_version_list.
?S:.
?T: tdir
: Find perl5.005 or later.
echo "Looking for a previously installed perl5.005 or later... "
case "$perl5" in
") for tdir in `echo "$binexp$path_sep$PATH" | $sed "s/$path_sep/
```

```
 /g"`; do
  : Check if this perl is recent and can load a simple module
  if $test -x $tdir/perl$exe_ext && $tdir/perl -Mless -e 'use 5.005;' >/dev/null 2>&1; then
   perl5=$tdir/perl
   break;
  elif $test -x $tdir/perl5$exe_ext && $tdir/perl5 -Mless -e 'use 5.005;' >/dev/null 2>&1; then
   perl5=$tdir/perl5
   break;
  fi
 done
 ;;
*) perl5="$perl5"
 ;;
esac
case "$perl5" in
") echo "None found.  That's ok.";;
*) echo "Using $perl5." ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/perl5.U
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```
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?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: uidtype.U,v $
?RCS: Revision 3.0.1.3  1994/08/29  16:33:25  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20  07:09:36  ram
?RCS: patch30: comment for uidtype referred to the obsoleted symbol
?RCS:
?RCS: Revision 3.0.1.1  1994/05/13  15:28:27  ram
?RCS: patch27: made conform to its gidtype.U companion
?RCS: patch27: question now explicitly mentions getuid()
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:56  ram
?RCS: Baseline for dist
```

```
 3.0 netwide release.
?RCS:
?MAKE:uidtype: Myread Typedef Findhdr
?MAKE: -pick add $@ %<
?S:uidtype:
?S: This variable defines Uid_t to be something like uid_t, int,
?S: ushort, or whatever type is used to declare user ids in the kernel.
?S:.
?C:Uid_t (UIDTYPE):
?C: This symbol holds the type used to declare user ids in the kernel.
?C: It can be int, ushort, uid_t, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Uid_t $uidtype  /* UID type */
?H:.
?T:xxx
: see what type uids are declared as in the kernel
set uid_t uidtype xxx stdio.h sys/types.h
eval $typedef
case "$uidtype" in
xxx)
 xxx=`./findhdr sys/user.h`
 set `grep '_ruid;' "$xxx" 2>/dev/null` unsigned short
 case $1 in
 unsigned) dflt="$1 $2" ;;
 *) dflt="$1" ;;
 esac
 ;;
*) dflt="$uidtype";;
esac
echo " "
rp="What is the type for user ids returned by getuid()?"
. ./myread
uidtype="$ans"
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/uidtype.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_nl_langinfo_l d_thread_safe_nl_langinfo_l: Compile cat rm_try Oldconfig \
```

```
 i_pthread i_stdlib i_langinfo i_locale  \
 usethreads run
?MAKE: -pick add $@ %<
?S:d_nl_langinfo_l:
?S: This variable contains the eventual value of the
?S: HAS_NL_LANGINFO_L symbol, which indicates if the
?S: nl_langinfo_l() function exists.
?S:.
?S:d_thread_safe_nl_langinfo_l:
?S: This variable contains the eventual value of the
?S: HAS_THREAD_SAFE_NL_LANGINFO_L symbol, which indicates if the
?S: nl_langinfo_l() function exists and is thread-safe.
?S:.
?C:HAS_NL_LANGINFO_L:
?C: This symbol, when defined, indicates presence of the nl_langinfo_l()
?C: function
?C:.
?C:HAS_THREAD_SAFE_NL_LANGINFO_L:
?C: This symbol, when defined,
 indicates presence of the nl_langinfo_l()
?C: function, and that it is thread-safe.
?C:.
?H:#$d_nl_langinfo_l HAS_NL_LANGINFO_L /**/
?H:#$d_thread_safe_nl_langinfo_l HAS_THREAD_SAFE_NL_LANGINFO_L /**/
?H:.
?F:!try
: check for nl_langinfo_l item
$cat <<EOM

Checking to see if you have nl_langinfo_l(), and that it is thread-safe
EOM
?X: Despite claiming that nl_langinfo_l() is thread-safe, the POSIX 2008
?X: standard allows for a non-safe implementation:
?X:
?X:    "nl_langinfo_l() uses an internal per-thread buffer, and nl_langinfo()
?X: uses (in all threads) the same buffer that nl_langinfo_l() uses in the
?X: initial thread. There can be interactions, but only when
?X: nl_langinfo_l() is called in the initial thread"
?X:
?X: This program calls nl_langinfo_l(), then creates a thread, calling plain
?X: nl_langinfo() from within it, then sees if the buffer in the original
?X: thread was changed.
$cat >try.c <<EOCP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#include
```

```
 <string.h>
#$i_langinfo I_LANGINFO
#ifdef I_LANGINFO
#  include <langinfo.h>
#endif
#$i_pthread I_PTHREAD
#ifdef I_PTHREAD
#  include <pthread.h>
#endif
#$i_locale I_LOCALE
#ifdef I_LOCALE
#  include <locale.h>
#endif

void *
thread_start(void * arg)
{
   nl_langinfo(RADIXCHAR);
}

int main() {
   char * main_buffer;
   char save_main_buffer[1000];
   pthread_t subthread;
   pthread_attr_t attr;

   main_buffer = nl_langinfo_l(CODESET, newlocale(LC_ALL_MASK, "C", 0));

   /* If too large for our generous allowance, just assume we don't have
    * it. */
   if (strlen(main_buffer) >= sizeof(save_main_buffer)) {
       exit(1);
   }

   strcpy(save_main_buffer, main_buffer);

   if (pthread_attr_init(&attr) != 0) {
       exit(1);
   }

   if (pthread_create(&subthread, &attr, thread_start, NULL) != 0) {
       exit(1);
   }

   if (pthread_join(subthread, NULL) != 0) {
       exit(1);
   }
```

```
   exit(! (strcmp(main_buffer, save_main_buffer) == 0));
}
EOCP
case
 "$usethreads" in
   define)
       set try
       if eval $compile; then
           echo "Your system has nl_langinfo_l()..." >&4
           d_nl_langinfo_l="$define"
           echo "$d_nl_langinfo_l" >&4
           if $run ./try; then
               echo "and it is thread-safe (just as I'd hoped)." >&4
               d_thread_safe_nl_langinfo_l="$define"
               echo "$d_thread_safe_nl_langinfo_l" >&4
           else
               echo "but it isn't thread-safe." >&4
           fi
       else
           echo "your system does not have nl_langinfo_l()" >&4
       fi
       ;;
   *) echo "Since threads aren't selected, we won't bother looking for nl_langinfo_l()" >&4
esac
if test X"$d_nl_langinfo_l" = X; then
 d_nl_langinfo_l="$undef"
fi
if test X"$d_thread_safe_nl_langinfo_l" = X; then
 d_thread_safe_nl_langinfo_l="$undef"
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_nl_langinfo_l.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getnetent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getnetent_r getnetent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
```

```
?S:d_getnetent_r:
?S: This variable conditionally defines the HAS_GETNETENT_R symbol,
?S: which indicates to the C program that the getnetent_r()
?S: routine is available.
?S:.
?S:getnetent_r_proto:
?S: This variable encodes the prototype of getnetent_r.
?S: It is zero if d_getnetent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getnetent_r
?S: is defined.
?S:.
?C:HAS_GETNETENT_R:
?C: This symbol, if defined, indicates that the getnetent_r routine
?C: is
 available to getnetent re-entrantly.
?C:.
?C:GETNETENT_R_PROTO:
?C: This symbol encodes the prototype of getnetent_r.
?C: It is zero if d_getnetent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getnetent_r
?C: is defined.
?C:.
?H:#$d_getnetent_r HAS_GETNETENT_R /**/
?H:#define GETNETENT_R_PROTO $getnetent_r_proto /**/
?H:.
?T:try hdrs d_getnetent_r_proto
: see if getnetent_r exists
set getnetent_r d_getnetent_r
eval $inlibc
case "$d_getnetent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getnetent_r_proto:$usethreads" in
 ":define") d_getnetent_r_proto=define
  set d_getnetent_r_proto getnetent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getnetent_r_proto" in
 define)
 case "$getnetent_r_proto" in
 "|0) try='int getnetent_r(struct netent*, char*, size_t, struct netent**, int*);'
 ./protochk "$extern_C $try" $hdrs && getnetent_r_proto=I_SBWRE ;;
 esac
 case "$getnetent_r_proto" in
 "|0) try='int getnetent_r(struct
 netent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && getnetent_r_proto=I_SBIE ;;
```

```
 esac
 case "$getnetent_r_proto" in
 "|0) try='struct netent* getnetent_r(struct netent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && getnetent_r_proto=S_SBIE ;;
 esac
 case "$getnetent_r_proto" in
 "|0) try='struct netent* getnetent_r(struct netent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getnetent_r_proto=S_SBI ;;
 esac
 case "$getnetent_r_proto" in
 "|0) try='int getnetent_r(struct netent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getnetent_r_proto=I_SBI ;;
 esac
 case "$getnetent_r_proto" in
 "|0) try='int getnetent_r(struct netent*, struct netent_data*);'
 ./protochk "$extern_C $try" $hdrs && getnetent_r_proto=I_SD ;;
 esac
 case "$getnetent_r_proto" in
 "|0) d_getnetent_r=undef
  getnetent_r_proto=0
  echo "Disabling getnetent_r, cannot determine prototype." >&4 ;;
 * ) case "$getnetent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getnetent_r_proto="REENTRANT_PROTO_$getnetent_r_proto"
 ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getnetent_r has no prototype, not using it." >&4 ;;
  esac
  d_getnetent_r=undef
  getnetent_r_proto=0
  ;;
 esac
 ;;
*) getnetent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getnetent_r.U
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?RCS: Id
?RCS:

```
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?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getpgrp.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:34:28  ram
?RCS: patch61: new USE_BSD_GETPGRP to detect the getpgrp() flavour
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getpgrp d_bsdgetpgrp: Guess Inlibc Setvar cat rm \
 +cc +ccflags +ldflags +libs i_unistd
?MAKE: -pick add $@ %<
?S:d_getpgrp:
?S: This variable conditionally defines HAS_GETPGRP if getpgrp() is
?S: available to get the current process group.
?S:.
?S:d_bsdgetpgrp:
?S: This
 variable conditionally defines USE_BSD_GETPGRP if
?S: getpgrp needs one arguments whereas USG one needs none.
?S:.
?C:HAS_GETPGRP (GETPGRP):
?C: This symbol, if defined, indicates that the getpgrp routine is
?C: available to get the current process group.
?C:.
?C:USE_BSD_GETPGRP:
?C: This symbol, if defined, indicates that getpgrp needs one
?C: arguments whereas USG one needs none.
?C:.
?H:#$d_getpgrp HAS_GETPGRP  /**/
?H:#$d_bsdgetpgrp USE_BSD_GETPGRP /**/
?H:.
?F:!set !set.c
?T:xxx
?LINT:set d_getpgrp d_bsdgetpgrp
: see if getpgrp exists
set getpgrp d_getpgrp
eval $inlibc

@if USE_BSD_GETPGRP || d_bsdgetpgrp
case "$d_getpgrp" in
"$define")
```

```
 echo " "
 echo "Checking to see which flavor of getpgrp is in use..."
 $cat >set.c <<EOP
#$i_unistd I_UNISTD
#include <sys/types.h>
#ifdef I_UNISTD
#  include <unistd.h>
#endif
int main()
{
 if (getuid() == 0) {
  printf("(I see you are running Configure as super-user...)\n");
  setuid(1);
 }
#ifdef TRY_BSD_PGRP
 if (getpgrp(1) ==
 0)
  exit(0);
#else
 if (getpgrp() > 0)
  exit(0);
#endif
 exit(1);
}
EOP
 if $cc -DTRY_BSD_PGRP $ccflags $ldflags -o set set.c $libs >/dev/null 2>&1
  && ./set
 then
  echo "You have to use getpgrp(pid) instead of getpgrp()." >&4
  val="$define"
 elif $cc $ccflags $ldflags -o set set.c $libs >/dev/null 2>&1 && ./set; then
  echo "You have to use getpgrp() instead of getpgrp(pid)." >&4
  val="$undef"
 else
  echo "I can't seem to compile and run the test program."
  if ./usg; then
   xxx="a USG one, i.e. you use getpgrp()."
  else
   # SVR4 systems can appear rather BSD-ish.
   case "$i_unistd" in
   $undef)
    xxx="a BSD one, i.e. you use getpgrp(pid)."
    val="$define"
    ;;
   $define)
    xxx="probably a USG one, i.e. you use getpgrp()."
    val="$undef"
    ;;
```

```
  esac
 fi
 echo "Assuming your getpgrp is $xxx" >&4
fi
;;
*) val="$undef";;
esac
set d_bsdgetpgrp
eval $setvar
$rm -f set set.c
@end
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getpgrp.U
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```
?RCS: $Id: Findhdr.U,v 3.0.1.2 1994/10/29 15:53:08 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Thomas Neumann <tom@smart.bo.open.de>
?RCS:
?RCS: $Log: Findhdr.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  15:53:08  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:03:56  ram
?RCS: patch23: cppminus must be after other cppflags, not before
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a findhdr script which
 is used to locate the header
?X: files in $usrinc or other stranger places using cpp capabilities. The
?X: script is given an include file base name, like 'stdio.h' or 'sys/file.h'
?X: and it returns the full path of the include file and a zero status or an
?X: empty string with an error status if the file could not be located.
?X:
?MAKE:Findhdr: grep test tr rm incpth awk cat startsh \
```

```
 cppstdin cppminus +cppflags osname
?MAKE: -pick add $@ %<
?LINT:extern cppfilter
?LINT:define fieldn
?S:fieldn:
?S: This variable is used internally by Configure. It contains the position
?S: of the included file name in cpp output. That is to say, when cpp
?S: pre-processes a #include <file> line, it replaces it by a # line which
?S: contains the original position in the input file and the full name of
?S: included file, between "quotes".
?S:.
?V:fieldn
?F:./findhdr !fieldn
?T:cline pos wanted name awkprg usrincdir status testaccess
: determine filename position in cpp output
echo " "
echo "Computing
 filename position in cpp output for #include directives..." >&4
case "$osname" in
amigaos) fieldn=3 ;;  # Workaround for a bug in abc (pdksh).
esac
case "$fieldn" in
")
case "$osname" in
vos) testaccess=-e ;;
*)   testaccess=-r ;;
esac
echo '#include <stdio.h>' > foo.c
$cat >fieldn <<EOF
$startsh
$cppstdin $cppflags $cppminus <foo.c 2>/dev/null | \
$grep '^[  ]*#.*stdio\.h' | \
while read cline; do
 pos=1
 set \$cline
 while $test \$# -gt 0; do
  if $test $testaccess \`echo \$1 | $tr -d ""\`; then
   echo "\$pos"
   exit 0
  fi
  shift
  pos=\`expr \$pos + 1\`
 done
done
EOF
chmod +x fieldn
fieldn=`./fieldn`
$rm -f foo.c fieldn
```

```
;;
esac
case $fieldn in
") pos='???';;
1) pos=first;;
2) pos=second;;
3) pos=third;;
*) pos="${fieldn}th";;
esac
echo "Your cpp writes the filename in the $pos field of the line."

?X: To locate a header file, we cannot simply check for $usrinc/file.h, since
?X: some machine have the headers in weird places and our only hope is that
?X: the C pre-processor
 will know how to find those headers. Thank you NexT!
: locate header file
$cat >findhdr <<EOF
$startsh
wanted=\$1
name=''
for usrincdir in $incpth
do
 if test -f \$usrincdir/\$wanted; then
  echo "\$usrincdir/\$wanted"
  exit 0
 fi
done
awkprg='{ print \$$fieldn }'
echo "#include <\$wanted>" > foo\$\$.c
$cppstdin $cppminus $cppflags < foo\$\$.c 2>/dev/null | \
$cppfilter $grep "^[  ]*#.*\$wanted" | \
while read cline; do
 name=\`echo \$cline | $awk "\$awkprg" | $tr -d '"'\`
 case "\$name" in
 *[/\\\\]\$wanted) echo "\$name"; exit 1;;
 *[\\\\/]\$wanted) echo "\$name"; exit 1;;
 *) exit 2;;
 esac;
done;
#
# status = 0: grep returned 0 lines, case statement not executed
# status = 1: headerfile found
# status = 2: while loop executed, no headerfile found
#
status=\$?
$rm -f foo\$\$.c;
if test \$status -eq 1; then
 exit 0;
```

```
fi
exit 1
EOF
chmod +x findhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Findhdr.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_frexpl: Inlibc
?MAKE: -pick add $@ %<
?S:d_frexpl:
?S: This variable conditionally defines the HAS_FREXPL symbol, which
?S: indicates to the C program that the frexpl() routine is available.
?S:.
?C:HAS_FREXPL:
?C: This symbol, if defined, indicates that the frexpl routine is
?C: available to break a long double floating-point number into
?C: a normalized fraction and an integral power of 2.
?C:.
?H:#$d_frexpl HAS_FREXPL  /**/
?H:.
?LINT:set d_frexpl
: see if frexpl exists
set frexpl d_frexpl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_frexpl.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_statfs_s: \
```

```
 Hasstruct i_sysparam i_sysmount i_systypes \
 i_sysvfs i_sysstatfs Setvar
?MAKE: -pick add $@ %<
?S:d_statfs_s:
?S: This variable conditionally defines the HAS_STRUCT_STATFS symbol,
?S: which indicates that the struct statfs is supported.
?S:.
?C:HAS_STRUCT_STATFS:
?C: This symbol, if defined, indicates that the struct statfs
?C: to do statfs() is supported.
?C:.
?H:#$d_statfs_s HAS_STRUCT_STATFS /**/
?H:.
?LINT:set d_statfs_s
: Check for statfs_s
echo " "
echo "Checking to see if your system supports struct statfs..." >&4
set d_statfs_s statfs $i_systypes sys/types.h $i_sysparam sys/param.h $i_sysmount sys/mount.h $i_sysvfs sys/vfs.h
$i_sysstatfs sys/statfs.h
eval $hasstruct
case "$d_statfs_s"
 in
"$define")      echo "Yes, it does."   ;;
*)              echo "No, it doesn't." ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_statfs_s.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_memmove.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memmove.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_memmove: Inlibc
?MAKE: -pick add $@ %<
?S:d_memmove:
```

```
?S: This variable conditionally defines the HAS_MEMMOVE symbol, which
?S: indicates to the C program that the memmove() routine is available
?S: to copy potentially overlapping blocks of memory.
?S:.
?C:HAS_MEMMOVE:
?C: This symbol, if defined, indicates that the memmove routine
 is available
?C: to copy potentially overlapping blocks of memory. This should be used
?C: only when HAS_SAFE_BCOPY is not defined. If neither is there, roll your
?C: own version.
?C:.
?H:#$d_memmove HAS_MEMMOVE /**/
?H:.
?LINT:set d_memmove
: see if memmove exists
set memmove d_memmove
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_memmove.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_fdclose: Inlibc
?MAKE: -pick add $@ %<
?S:d_fdclose:
?S: This variable conditionally defines the HAS_FDCLOSE symbol, which
?S: indicates to the C program that the fdclose() routine is available.
?S:.
?C:HAS_FDCLOSE:
?C: This symbol, if defined, indicates that the fdclose routine is
?C: available to free a FILE structure without closing the underlying
?C: file descriptor.  This function appeared in FreeBSD 10.2.
?C:.
?H:#$d_fdclose HAS_FDCLOSE  /**/
?H:.
?LINT:set d_fdclose
: see if fdclose exists
set fdclose d_fdclose
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fdclose.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_scandir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_scandir.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:06:35  ram
?RCS: patch16: created
?RCS:
?MAKE:d_scandir: Inlibc
?MAKE: -pick add $@ %<
?S:d_scandir:
?S: This variable conditionally defines HAS_SCANDIR if scandir() is
?S: available to scan a directory.
?S:.
?C:HAS_SCANDIR:
?C: This symbol, if defined, indicates that the scandir routine is
?C: available to scan a directory.
?C:.
?H:#$d_scandir HAS_SCANDIR /**/
?H:.
?LINT:set d_scandir
: see if
 scandir exists
set scandir d_scandir
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_scandir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getgrent_r.U,v 0RCS:
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?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getgrent_r getgrent_r_proto: Inlibc Protochk Hasproto i_systypes \
```

```
 usethreads i_grp extern_C
?MAKE: -pick add $@ %<
?S:d_getgrent_r:
?S: This variable conditionally defines the HAS_GETGRENT_R symbol,
?S: which indicates to the C program that the getgrent_r()
?S: routine is available.
?S:.
?S:getgrent_r_proto:
?S: This variable encodes the prototype of getgrent_r.
?S: It is zero if d_getgrent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getgrent_r
?S: is defined.
?S:.
?C:HAS_GETGRENT_R:
?C: This symbol, if defined, indicates that the getgrent_r routine
?C: is available to
 getgrent re-entrantly.
?C:.
?C:GETGRENT_R_PROTO:
?C: This symbol encodes the prototype of getgrent_r.
?C: It is zero if d_getgrent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getgrent_r
?C: is defined.
?C:.
?H:#$d_getgrent_r HAS_GETGRENT_R /**/
?H:#define GETGRENT_R_PROTO $getgrent_r_proto /**/
?H:.
?T:try hdrs d_getgrent_r_proto
: see if getgrent_r exists
set getgrent_r d_getgrent_r
eval $inlibc
case "$d_getgrent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_grp grp.h"
 case "$d_getgrent_r_proto:$usethreads" in
 ":define") d_getgrent_r_proto=define
  set d_getgrent_r_proto getgrent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getgrent_r_proto" in
 define)
 case "$getgrent_r_proto" in
 "|0) try='int getgrent_r(struct group*, char*, size_t, struct group**);'
 ./protochk "$extern_C $try" $hdrs && getgrent_r_proto=I_SBWR ;;
 esac
 case "$getgrent_r_proto" in
 "|0) try='int getgrent_r(struct group*, char*, int, struct group**);'
```

```
./protochk
"$extern_C $try" $hdrs && getgrent_r_proto=I_SBIR ;;
esac
case "$getgrent_r_proto" in
"|0) try='struct group* getgrent_r(struct group*, char*, size_t);'
./protochk "$extern_C $try" $hdrs && getgrent_r_proto=S_SBW ;;
esac
case "$getgrent_r_proto" in
"|0) try='struct group* getgrent_r(struct group*, char*, int);'
./protochk "$extern_C $try" $hdrs && getgrent_r_proto=S_SBI ;;
esac
case "$getgrent_r_proto" in
"|0) try='int getgrent_r(struct group*, char*, int);'
./protochk "$extern_C $try" $hdrs && getgrent_r_proto=I_SBI ;;
esac
case "$getgrent_r_proto" in
"|0) try='int getgrent_r(struct group*, char*, int, FILE**);'
./protochk "$extern_C $try" $hdrs && getgrent_r_proto=I_SBIH ;;
esac
case "$getgrent_r_proto" in
"|0) d_getgrent_r=undef
 getgrent_r_proto=0
 echo "Disabling getgrent_r, cannot determine prototype." >&4 ;;
* ) case "$getgrent_r_proto" in
 REENTRANT_PROTO*) ;;
 *) getgrent_r_proto="REENTRANT_PROTO_$getgrent_r_proto" ;;
 esac
 echo "Prototype:
$try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "getgrent_r has no prototype, not using it." >&4 ;;
 esac
 d_getgrent_r=undef
 getgrent_r_proto=0
 ;;
esac
;;
*) getgrent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getgrent_r.U
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```
?RCS: $Id: d_seteuid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_seteuid.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_seteuid: Inlibc
?MAKE: -pick add $@ %<
?S:d_seteuid:
?S: This variable conditionally defines the HAS_SETEUID symbol, which
?S: indicates to the C program that the seteuid() routine is available
?S: to change the effective uid of the current program.
?S:.
?C:HAS_SETEUID (SETEUID):
?C: This symbol, if defined, indicates that the seteuid
 routine is available
?C: to change the effective uid of the current program.
?C:.
?H:#$d_seteuid HAS_SETEUID  /**/
?H:.
?LINT:set d_seteuid
: see if seteuid exists
set seteuid d_seteuid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_seteuid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sgndchr.U,v 3.0.1.2 1997/02/28 15:44:25 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
```

```
?RCS: $Log: d_sgndchr.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:44:25  ram
?RCS: patch61: added a ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  14:00:24  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:16  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sgndchr: cat rm Compile Setvar run
?MAKE: -pick add $@ %<
?S:d_sgndchr:
?S: This variable conditionally defines the SIGNEDCHAR
 symbol, which
?S: indicates to the C program that signed characters are available.
?S:.
?C:SIGNEDCHAR:
?C: This symbol, if defined, indicates that characters are a signed type.
?C: If not defined, things declared as signed characters (and that make
?C: use of negative values) should probably be declared as shorts instead.
?C:.
?H:#$d_sgndchr SIGNEDCHAR /**/
?H:.
?F:!try
?LINT:set d_sgndchr
: check for signed chars
echo " "
echo "Checking to see if your C compiler can do signed chars..." >&4
$cat >try.c <<'EOCP'
int main()
{
 char c = 0;

 c--;
 exit(c >= 0);
}
EOCP
set try
if eval $compile && $run ./try; then
if $run ./try; then
 val="$define"
 echo "It certainly can."
else
 val="$undef"
 echo "It can't.  I'll have to make some things type short."
fi
set d_sgndchr
```

```
eval $setvar
$rm -f try*
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_sgndchr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_crypt_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_crypt_r crypt_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_crypt extern_C
?MAKE: -pick add $@ %<
?S:d_crypt_r:
?S: This variable conditionally defines the HAS_CRYPT_R symbol,
?S: which indicates to the C program that the crypt_r()
?S: routine is available.
?S:.
?S:crypt_r_proto:
?S: This variable encodes the prototype of crypt_r.
?S: It is zero if d_crypt_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_crypt_r
?S: is defined.
?S:.
?C:HAS_CRYPT_R:
?C: This symbol, if defined, indicates that the crypt_r routine
?C: is available to crypt re-entrantly.
?C:.
?C:CRYPT_R_PROTO:
?C: This
 symbol encodes the prototype of crypt_r.
?C: It is zero if d_crypt_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_crypt_r
?C: is defined.
?C:.
?H:#$d_crypt_r HAS_CRYPT_R /**/
?H:#define CRYPT_R_PROTO $crypt_r_proto /**/
?H:.
?T:try hdrs d_crypt_r_proto
: see if crypt_r exists
set crypt_r d_crypt_r
eval $inlibc
```

```
case "$d_crypt_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_crypt crypt.h"
 case "$d_crypt_r_proto:$usethreads" in
 ":define") d_crypt_r_proto=define
  set d_crypt_r_proto crypt_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_crypt_r_proto" in
 define)
 case "$crypt_r_proto" in
 "|0) try='char* crypt_r(const char*, const char*, struct crypt_data*);'
 ./protochk "$extern_C $try" $hdrs && crypt_r_proto=B_CCS ;;
 esac
 case "$crypt_r_proto" in
 "|0) try='char* crypt_r(const char*, const char*, CRYPTD*);'
 ./protochk "$extern_C $try" $hdrs && crypt_r_proto=B_CCD ;;
 esac
 case "$crypt_r_proto" in
 "|0) d_crypt_r=undef
  crypt_r_proto=0
  echo
 "Disabling crypt_r, cannot determine prototype." >&4 ;;
 * ) case "$crypt_r_proto" in
  REENTRANT_PROTO*) ;;
  *) crypt_r_proto="REENTRANT_PROTO_$crypt_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "crypt_r has no prototype, not using it." >&4 ;;
  esac
  d_crypt_r=undef
  crypt_r_proto=0
  ;;
 esac
 ;;
*) crypt_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_crypt_r.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: charorder.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:07:08  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:33  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:chorder_int chorder_short chorder_long: Myread cat +cc +ccflags rm
?MAKE: -pick add $@ %<
?S:chorder_short (d_cos d_bos):
?S: Holds the value describing the byte ordering of characters in a short.
?S: On a Big-Endian machine, that would be "c0c1".
?S:.
?S:chorder_int
 (charoder):
?S: Holds the value describing the byte ordering of characters in an int.
?S: For instance, on a Big-Endian machine, this would be: "c0c1c2c3".
?S:.
?S:chorder_long (d_col d_bol):
?S: Holds the value describing the byte ordering of characters in a long.
?S: On a 64 bits Big-Endian machine, that would yield: "c0c1c2c3c4c5c6c7".
?S:.
?C:CHAR_ORDER_SHORT:
?C: Holds the byte ordering of characters in a short. It's a string
?C: value like "c0c1" on a Big-Endian machine.
?C:.
?C:CHAR_ORDER_INT:
?C: Holds the byte ordering of characters in an int. It's a string
?C: value like "c0c1c2c3" on a Big-Endian machine.
?C:.
?C:CHAR_ORDER_LONG:
?C: Holds the byte ordering of characters in a long. It's a string
?C: value like "c0c1c2c3c4c5c6c7" on a 64 bits Big-Endian machine.
?C:.
?H:#define CHAR_ORDER_SHORT "$chorder_short" /* byte order in a short */
?H:#define CHAR_ORDER_INT "$chorder_int" /* byte order in an int */
?H:#define CHAR_ORDER_LONG "$chorder_long" /* byte order in a long */
?H:.
```

```
?F:!byteorder
:
 check for character ordering
echo " "
echo "Checking out byte order..." >&4
$cat >byteorder.c <<'EOCP'
#include <stdio.h>

main(argc, argv)
 int argc;
 char *argv[]; {
 int i;
 int max;
 union {
  short u_s;
  int u_i;
  long u_l;
  char u_c[sizeof(long)];
 } u;
 switch (argv[1][0]) {
 case 'l':
  u.u_l = 0L;
  /* HMS: ASSERT: sizeof(long) < 10. */
  for(i = 0; i < sizeof(long); ++i) {
   u.u_l *= 0x100L;
   u.u_l += (0xc0 + i);
  }
  max = sizeof(long);
  break;
 case 's':
  u.u_s = 0;
  /* HMS: ASSERT: sizeof(short) < 10. */
  for(i = 0; i < sizeof(short); ++i) {
   u.u_s *= 0x100L;
   u.u_s += (0xc0 + i);
  }
  max = sizeof(short);
  break;
 case 'i':
  u.u_i = 0;
  /* RAM: ASSERT: sizeof(int) < 10. */
  for(i = 0; i < sizeof(int); ++i) {
   u.u_l *= 0x100L;
   u.u_l += (0xc0 + i);
  }
  max = sizeof(int);
  break;
 default:
```

```
  max = 0;
  break;
 }
 for(i = 0; i < max; i++) {
  printf("%x", u.u_c[i] & 0x00FF);
 }
 printf("\n");
 exit(0);
}
EOCP
if $cc $ccflags -o
 byteorder byteorder.c >/dev/null 2>&1 ; then
 : null statement
@if chorder_short
   chorder_short=`./byteorder s`
@end
@if chorder_int
   chorder_int=`./byteorder i`
@end
@if chorder_long
   chorder_long=`./byteorder l`
@end
else
 $cat <<EOM
(I can't seem to get my test program to work.  Guessing 32 bits big-endian.)
EOM
   chorder_short="c0c1"
   chorder_int="c0c1c2c3"
   chorder_long="c0c1c2c3"
fi
@if chorder_short
dflt=$chorder_short
rp='What is the order of characters in a short?'
. ./myread
chorder_short="$ans"
@end
@if chorder_int
dflt=$chorder_int
rp='What is the order of characters in an int?'
. ./myread
chorder_int="$ans"
@end
@if chorder_long
dflt=$chorder_long
rp='What is the order of characters in a long?'
. ./myread
chorder_long="$ans"
@end
```

```
$rm -f byteorder* core
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/charorder.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: manfmt.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: manfmt.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  16:11:57  ram
?RCS: patch61: don't ask for AFS when they choose to not install pages
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:16:52  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:39:20  ram
?RCS: patch49: new installmanfmt and AFS-lookup for formatted man pages
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS:
 Revision 3.0.1.2  1994/08/29  16:30:31  ram
?RCS: patch32: now uses installation prefix for default setting
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:09:22  ram
?RCS: patch10: allows for L1 man page extension (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:manfmt manfmtexp installmanfmt: Getfile Loc Oldconfig cat manext \
 spackage Prefixit prefixexp Prefixup afs test
?MAKE: -pick add $@ %<
?Y:TOP
?S:manfmt:
?S: This variable contains the name of the directory in which formatted
?S: manual pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command. Note
?S: that you may have to do ~name substitution. Use manfmtexp otherwise.
?S:.
```

```
?S:manfmtexp:
?S: This is the same as the manfmt variable, but is filename expanded
?S: at configuration time, for programs not willing to deal with it at
?S: run-time.
?S:.
?S:installmanfmt:
?S: This variable is really
 the same as manfmtexp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: mansrcexp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change manext
?T:lookpath
: determine where manual pages go
set manfmt manfmt
eval $prefixit
$cat <<EOM

$spackage has pre-formatted manual pages.  If you don't want these installed,
answer 'none' to the next question.

EOM
case "$manfmt" in
")
 lookpath="$prefixexp/catman/man1 $prefixexp/man/cat1"
 lookpath="$lookpath $prefixexp/catman/u_man/man1"
 lookpath="$lookpath $prefixexp/catman/l_man/man1"
 lookpath="$lookpath $prefixexp/catman/cat1 /usr/catman/local/man1"
 lookpath="$lookpath /usr/catman/manl /usr/man/cat1"
 lookpath="$lookpath /usr/catman/mann /usr/catman/l_man/man1"
 lookpath="$lookpath /usr/catman/u_man/man1 /usr/catman/man1"
 dflt=`./loc . none $lookpath`
 set dflt
 eval $prefixup
 ;;
*)  dflt="$manfmt"
 ;;
esac
fn=dn~
rp='Where
 do pre-formatted manual pages go?'
. ./getfile
if test "X$manfmtexp" != "X$ansexp"; then
 installmanfmt=''
fi
manfmt="$ans"
manfmtexp="$ansexp"
```

```
if $afs && $test "$manfmt"; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
manual pages reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installmanfmt" in
 ") dflt=`echo $manfmtexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installmanfmt";;
 esac
 fn=de~
 rp='Where will pre-formatted man pages be installed?'
 . ./getfile
 installmanfmt="$ans"
else
 installmanfmt="$manfmtexp"
fi

case "$manfmt" in
") manext='0';;
*l) manext=l;;
*n) manext=n;;
*o) manext=l;;
*p) manext=n;;
*C) manext=C;;
*L) manext=L;;
*L1) manext=L1;;
*) manext=1;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/manfmt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: etc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: etc.U,v $
```

```
?RCS: Revision 3.0  1993/08/18  12:08:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:etc etcexp: Getfile Loc Oldconfig
?MAKE: -pick add $@ %<
?S:etc:
?S: This variable holds the name of the directory in which the user wants
?S: to put "administrative" executable images for the package in question.
?S: It is most often a local directory such as /usr/local/etc. Programs
?S: relying on this variable must be prepared to deal with
 ~name
?S: substitutions.
?S:.
?S:etcexp:
?S: This is the same as the etc variable, but is filename expanded at
?S: configuration time, for convenient use in makefiles.
?S:.
: determine where administrative executables go
case "$etc" in
")
 dflt=`./loc . /local/etc /usr/local/etc /local/etc /usr/etc /etc`
 ;;
*)
 dflt="$etc"
 ;;
esac
fn=d~
rp='Where should the administrative executables go?'
. ./getfile
etc="$ans"
etcexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/etc.U
No license file was found, but licenses were detected in source scan.

```
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:uidsign: Myread Typedef uidtype Compile run
?MAKE: -pick add $@ %<
```

```
?S:uidsign:
?S: This variable contains the signedness of a uidtype.
?S: 1 for unsigned, -1 for signed.
?S:.
?C:Uid_t_sign:
?C: This symbol holds the signedness of a Uid_t.
?C: 1 for unsigned, -1 for signed.
?C:.
?H:#define Uid_t_sign $uidsign  /* UID sign */
?H:.
?T:yyy zzz
?F:!try
: Check if UID is signed
echo " "
case "$uidtype" in
*_t) zzz="$uidtype" ;;
*)   zzz="uid"  ;;
esac
echo "Checking the sign of $zzz..." >&4
cat > try.c <<EOCP
#include <sys/types.h>
#include
 <stdio.h>
int main() {
 $uidtype foo = -1;
 if (foo < 0)
  printf("-1\n");
 else
  printf("1\n");
}
EOCP
set try
if eval $compile; then
 yyy=`$run ./try`
 case "$yyy" in
 ") uidsign=1
  echo "(I can't execute the test program--guessing unsigned.)" >&4
  ;;
 *) uidsign=$yyy
  case "$uidsign" in
   1) echo "Your $zzz is unsigned." ;;
  -1) echo "Your $zzz is signed."   ;;
  esac
  ;;
 esac
else
 uidsign=1
 echo "(I can't compile the test program--guessing unsigned.)" >&4
```

```
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/uidsign.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sfio.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sfio.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:48:27  ram
?RCS: patch61: created
?RCS:
?MAKE:i_sfio: Inhdr Setvar
?MAKE: -pick add $@ %<
?S:i_sfio:
?S: This variable conditionally defines the I_SFIO symbol,
?S: and indicates whether a C program should include <sfio.h>.
?S:.
?C:I_SFIO:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sfio.h>.
?C:.
?H:#$i_sfio I_SFIO  /**/
?H:.
?LINT:set
 i_sfio
: see if sfio.h is available
set sfio.h i_sfio
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sfio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extract.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  14:58:52  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:51:46  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which can be doted in order to extract
?X: .SH files with variable substitutions.
?X:
?X: When running Configure from a remote directory ($src
 is not '.'),
?X: then the files will be created in that directory, so beware!
?X:
?MAKE:Extract: Mkdirp src
?MAKE: -pick add $@ %<
?F:./extract
?T:CONFIG SRC dir file
: script used to extract .SH files with variable substitutions
cat >extract <<EOS
CONFIG=true
SRC="$src"
EOS
cat >>extract <<'EOS'
echo "Doing variable substitutions on .SH files..."
if test -f "$SRC/MANIFEST"; then
 set x `awk '{print $1}' <$SRC/MANIFEST | grep '\.SH'`
else
 echo "(Looking for .SH files under the source directory.)"
 set x `(cd "$SRC"; find . -name "*.SH" -print)`
fi
shift
case $# in
0) set x `(cd "$SRC"; echo *.SH)`; shift;;
esac
if test ! -f "$SRC/$1"; then
 shift
```

```
fi
for file in $*; do
 case "$SRC" in
 ".")
  case "$file" in
  */*)
   dir=`expr X$file : 'X\(.*\)/'`
   file=`expr X$file : 'X.*/\(.*\)'`
   (cd $dir && . ./$file)
   ;;
  *)
   . ./$file
   ;;
  esac
  ;;
 *)
?X:
?X: When running Configure remotely ($src is not '.'), we cannot source
?X: the files directly, since that would wrongly cause
 the extraction
?X: where the source lie instead of withing the current directory. Therefore,
?X: we need to 'sh <file' then, which is okay since they will source the
?X: existing config.sh file. It's not possible to use:
?X:  ../src/Configure -S -O -Dsomething
?X: unfortunately since no new config.sh with the -Dsomething override
?X: will be created before running the .SH files. A minor buglet.
?X:
?X: Note that we must create the directory hierarchy ourselves if it does
?X: not exist already, and that is done through a shell emulation of the
?X: 'mkdir -p' command. We don't want to use the $installdir metaconfig
?X: symbol here since that would require too much to be configured for
?X: this simple extraction task that may happen quickly with 'Configure -S'.
?X:  -- RAM, 18/03/96
?X:
  case "$file" in
  */*)
   dir=`expr X$file : 'X\(.*\)/'`
   file=`expr X$file : 'X.*/\(.*\)'`
   ./mkdirp $dir
   sh <"$SRC/$dir/$file"
   ;;
  *)
   sh <"$SRC/$file"
   ;;
  esac
  ;;
 esac
done
```

```
if
 test -f "$SRC/config_h.SH"; then
 if test ! -f config.h; then
?X: oops, they left it out of MANIFEST, probably, so do it anyway.
  sh <"$SRC/config_h.SH"
 fi
fi
EOS
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Extract.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_msgctl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msgctl.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:38  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_msgctl: Inlibc
?MAKE: -pick add $@ %<
?S:d_msgctl:
?S: This variable conditionally defines the HAS_MSGCTL symbol, which
?S: indicates to the C program that the msgctl() routine is available.
?S:.
?C:HAS_MSGCTL:
?C: This symbol, if defined, indicates that the msgctl() routine is
?C: available to perform message control operations.
?C:.
?H:#$d_msgctl
 HAS_MSGCTL  /**/
?H:.
?LINT:set d_msgctl
: see if msgctl exists
set msgctl d_msgctl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/dist/U/d_msgctl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endpwent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_endpwent_r endpwent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_pwd extern_C
?MAKE: -pick add $@ %<
?S:d_endpwent_r:
?S: This variable conditionally defines the HAS_ENDPWENT_R symbol,
?S: which indicates to the C program that the endpwent_r()
?S: routine is available.
?S:.
?S:endpwent_r_proto:
?S: This variable encodes the prototype of endpwent_r.
?S: It is zero if d_endpwent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endpwent_r
?S: is defined.
?S:.
?C:HAS_ENDPWENT_R:
?C: This symbol, if defined, indicates that the endpwent_r routine
?C: is available to
 endpwent re-entrantly.
?C:.
?C:ENDPWENT_R_PROTO:
?C: This symbol encodes the prototype of endpwent_r.
?C: It is zero if d_endpwent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endpwent_r
?C: is defined.
?C:.
?H:#$d_endpwent_r HAS_ENDPWENT_R /**/
?H:#define ENDPWENT_R_PROTO $endpwent_r_proto /**/
?H:.
?T:try hdrs d_endpwent_r_proto
: see if endpwent_r exists
set endpwent_r d_endpwent_r
eval $inlibc
case "$d_endpwent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_pwd pwd.h"
 case "$d_endpwent_r_proto:$usethreads" in
 ":define") d_endpwent_r_proto=define
```

```
 set d_endpwent_r_proto endpwent_r $hdrs
 eval $hasproto ;;
*) ;;
esac
case "$d_endpwent_r_proto" in
define)
case "$endpwent_r_proto" in
"|0) try='int endpwent_r(FILE**);'
./protochk "$extern_C $try" $hdrs && endpwent_r_proto=I_H ;;
esac
case "$endpwent_r_proto" in
"|0) try='void endpwent_r(FILE**);'
./protochk "$extern_C $try" $hdrs && endpwent_r_proto=V_H ;;
esac
case "$endpwent_r_proto"
in
"|0) d_endpwent_r=undef
 endpwent_r_proto=0
 echo "Disabling endpwent_r, cannot determine prototype." >&4 ;;
* ) case "$endpwent_r_proto" in
 REENTRANT_PROTO*) ;;
 *) endpwent_r_proto="REENTRANT_PROTO_$endpwent_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "endpwent_r has no prototype, not using it." >&4 ;;
 esac
 d_endpwent_r=undef
 endpwent_r_proto=0
 ;;
esac
;;
*) endpwent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_endpwent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setgrps.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setgrps.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setgrps: Inlibc
?MAKE: -pick add $@ %<
?S:d_setgrps:
?S: This variable conditionally defines the HAS_SETGROUPS symbol, which
?S: indicates to the C program that the setgroups() routine is available
?S: to set the list of process groups.
?S:.
?C:HAS_SETGROUPS:
?C: This symbol, if defined, indicates that the setgroups() routine is
?C: available
 to set the list of process groups.  If unavailable, multiple
?C: groups are probably not supported.
?C:.
?H:#$d_setgrps HAS_SETGROUPS  /**/
?H:.
?LINT:set d_setgrps
: see if setgroups exists
set setgroups d_setgrps
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setgrps.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_values.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_values.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:48:34  ram
?RCS: patch61: created
```

```
?RCS:
?MAKE:i_values: Inhdr
?MAKE: -pick add $@ %<
?S:i_values:
?S: This variable conditionally defines the I_VALUES symbol, and indicates
?S: whether a C program may include <values.h> to get symbols like MAXLONG
?S: and friends.
?S:.
?C:I_VALUES:
?C: This symbol, if defined, indicates to the C program that it should
?C: include
 <values.h> to get definition of symbols like MINFLOAT or
?C: MAXLONG, i.e. machine dependant limitations.  Probably, you
?C: should use <limits.h> instead, if it is available.
?C:.
?H:#$i_values I_VALUES  /**/
?H:.
?LINT:set i_values
: see if this is a values.h system
set values.h i_values
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_values.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_lstat.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_lstat.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:28  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_lstat: Inlibc
?MAKE: -pick add $@ %<
?S:d_lstat:
?S: This variable conditionally defines HAS_LSTAT if lstat() is
?S: available to do file stats on symbolic links.
?S:.
?C:HAS_LSTAT (LSTAT):
```

```
?C: This symbol, if defined, indicates that the lstat routine is
?C: available to do file stats on symbolic links.
?C:.
?H:#$d_lstat HAS_LSTAT  /**/
?H:.
?LINT:set
 d_lstat
: see if lstat exists
set lstat d_lstat
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_lstat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setegid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setegid.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setegid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setegid:
?S: This variable conditionally defines the HAS_SETEGID symbol, which
?S: indicates to the C program that the setegid() routine is available
?S: to change the effective gid of the current program.
?S:.
?C:HAS_SETEGID (SETEGID):
?C: This symbol, if defined, indicates that the setegid
 routine is available
?C: to change the effective gid of the current program.
?C:.
?H:#$d_setegid HAS_SETEGID  /**/
?H:.
?LINT:set d_setegid
: see if setegid exists
set setegid d_setegid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setegid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996,1998 Andy Dougherty
?RCS: Copyright (c) 1996, Sven Verdoolaege
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_gnulibc gnulibc_version: Myread Oldconfig Setvar rm_try \
 cat Compile run
?MAKE: -pick add $@ %<
?S:d_gnulibc:
?S: Defined if we're dealing with the GNU C Library.
?S:.
?S:gnulibc_version:
?S: This variable contains the version number of the GNU C library.
?S: It is usually something like '2.2.5'.  It is a plain '' if this
?S: is not the GNU C library, or if the version is unknown.
?S:.
?C:HAS_GNULIBC ~ %<:
?C: This
 symbol, if defined, indicates to the C program that
?C: the GNU C library is being used.  A better check is to use
?C: the __GLIBC__ and __GLIBC_MINOR__ symbols supplied with glibc.
?C:.
?H:?%<:#$d_gnulibc HAS_GNULIBC   /**/
?H:?%<:#if defined(HAS_GNULIBC) && !defined(_GNU_SOURCE)
?H:?%<:#define _GNU_SOURCE
?H:?%<:#endif
?H:.
?F:!glibc.ver !try.c !try
?LINT: set d_gnulibc
?LINT: usefile try.c
?LINT: known _GNU_SOURCE
?X: gnulibc can be executed by calling __libc_main().
?X: Ulrich Drepper doesn't think any other libc does that,
?X: but we check if it says 'GNU C Library' to be sure.
?X:
```

```
?X: Alas, as of 3/1998 glibc 2.0.7 reportedly isn't going to
?X: have __libc_main() anymore. :-(.  Fortunately, all released
?X: versions of glibc 2.x.x _do_ have CPP variables.  For 2.0.6,
?X: they are:
?X: #define __GLIBC__  2
?X: #define__GLIBC_MINOR__ 0.
?X: (The '6' isn't available :-(.
?X: glibc2.1 will also have
?X:  extern const char * __gnu_get_libc_release(void);
?X:  extern const char *
 __gnu_get_libc_version(void);
?X: functions.   --thanks to Andreas Jaeger.   --AD  6/1998.
?X: Although the exact format isn't documented, __gnu_get_libc_version()
?X: returns a simple string '2.1.3' in glibc 2.1.3.
?X:
: determine whether we are using a GNU C library
echo " "
echo "Checking for GNU C Library..." >&4
cat >try.c <<'EOCP'
/* Find out version of GNU C library.  __GLIBC__ and __GLIBC_MINOR__
  alone are insufficient to distinguish different versions, such as
  2.0.6 and 2.0.7.  The function gnu_get_libc_version() appeared in
  libc version 2.1.0.      A. Dougherty,  June 3, 2002.
*/
#include <stdio.h>
int main(void)
{
#ifdef __GLIBC__
#   ifdef __GLIBC_MINOR__
#       if __GLIBC__ >= 2 && __GLIBC_MINOR__ >= 1
#           include <gnu/libc-version.h>
     printf("%s\n",  gnu_get_libc_version());
#       else
     printf("%d.%d\n",  __GLIBC__, __GLIBC_MINOR__);
#       endif
#   else
 printf("%d\n",  __GLIBC__);
#   endif
   return 0;
#else
   return 1;
#endif
}
EOCP
set
 try
if eval $compile_ok && $run ./try > glibc.ver; then
 val="$define"
```

```
 gnulibc_version=`$cat glibc.ver`
 echo "You are using the GNU C Library version $gnulibc_version"
else
 val="$undef"
 gnulibc_version=''
 echo "You are not using the GNU C Library"
fi
$rm_try glibc.ver
set d_gnulibc
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_gnulibc.U
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```
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sunscanf.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:sunscanf: cat rm Myread +cc +ccflags test Setvar
?MAKE: -pick add $@ %<
?S:sunscanf:
?S: This variable is set if this system runs with the Sun version
?S: of scanf.
?S:.
?C:SUNSCANF:
?C: This variable is set if this system runs with the Sun version
?C: of scanf.
?C:.
?H:#$sunscanf  SUNSCANF  /**/
?H:.
?LINT:set sunscanf
: check to see what kinda scanf your using.
echo " "
echo "Checking
 to see what flavor of scanf you have..." >&4
$cat >scanf.c <<'EOCP'
```

```
int main()
{
 float value;

 sscanf("4.5","%g",&value);
 printf("%d\n", value == 4.5);
}
EOCP
if $cc $ccflags -o scanf scanf.c >/dev/null 2>&1 ; then
 if $test `scanf` = 0; then
  echo "Hmm.. seems your not running the USG flavor.."
  val="$undef"
 else
  echo "Uh... your running the USG flavor of scanf."
  val="$define"
 fi
else
 echo "(I can't seem to compile the test program... Guessing)"
 val="$undef"
fi
set sunscanf
eval $setvar
$rm -f scanf*
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/sunscanf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2017-2018, H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_dup3: Inlibc
?MAKE: -pick add $@ %<
?S:d_dup3:
?S: This variable conditionally defines HAS_DUP3 if dup3() is
?S: available to duplicate file descriptors.
?S:.
?C:HAS_DUP3:
?C: This symbol, if defined, indicates that the dup3 routine is
?C: available to duplicate file descriptors.
?C:.
?H:#$d_dup3 HAS_DUP3 /**/
```

```
?H:.
?LINT:set d_dup3
: see if dup3 exists
set dup3 d_dup3
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_dup3.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_speedopt.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_speedopt.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:15:51  ram
?RCS: patch36: call ./Cppsym explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_speedopt: Myread Cppsym Oldconfig cat models Setvar
?MAKE: -pick add $@ %<
?S:d_speedopt:
?S: This variable conditionally defines the SPEED_OVER_MEM symbol, which
?S: indicates to the C program that it can
 burn memory in order to save
?S: CPU time.
?S:.
?C:SPEED_OVER_MEM (SPEEDOVERMEM):
?C: This symbol, if defined, indicates that the program can use more
?C: memory in order to reduce CPU time.  The symbol doesn't say whether
?C: we are more interested in saving text space or data space.
?C:.
?H:#$d_speedopt SPEED_OVER_MEM /**/
?H:.
?LINT:set d_speedopt
: do we want speed at the expense of memory
$cat <<'EOM'

I can try to optimize this package for either speed or memory.  If you have
```

```
limited address space you may wish to optimize for memory.  Otherwise you
should probably optimize for speed.

EOM
case "$d_speedopt" in
") if ./Cppsym $smallmach; then
 case "$models" in
  *large*|*huge*) dflt=speed;;
  *) dflt=memory;;
  esac
 else
  dflt=speed
 fi
 ;;
*define*) dflt=speed;;
*) dflt=memory;;
esac
rp="What to optimize for?"
. ./myread
case "$ans" in
mem*) val="$undef";;
*) val="$define";;
esac
set d_speedopt
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_speedopt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: cpp_stuff.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cpp_stuff.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:08:24  ram
?RCS: patch36: now uses cppstdin instead of plain cpp for consistency (ADO)
?RCS: patch36: remove temporary files when done
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:36  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?MAKE:cpp_stuff: cat contains cppstdin cppflags cppminus rm
?MAKE: -pick add $@ %<
?S:cpp_stuff:
?S: This variable contains an identification of the concatenation
 mechanism
?S: used by the C preprocessor.
?S:.
?C:CAT2:
?C: This macro concatenates 2 tokens together.
?C:.
?C:CAT3:
?C: This macro concatenates 3 tokens together.
?C:.
?C:CAT4:
?C: This macro concatenates 4 tokens together.
?C:.
?C:CAT5:
?C: This macro concatenates 5 tokens together.
?C:.
?C:STRINGIFY:
?C: This macro surrounds its token with double quotes.
?C:.
?C:SCAT2:
?C: This macro concatenates 2 tokens together and stringifies the result.
?C: It might not exist, so #ifdef it in your code!
?C:.
?C:SCAT3:
?C: This macro concatenates 3 tokens together and stringifies the result.
?C: It might not exist, so #ifdef it in your code!
?C:.
?C:SCAT4:
?C: This macro concatenates 4 tokens together and stringifies the result.
?C: It might not exist, so #ifdef it in your code!
?C:.
?C:SCAT5:
?C: This macro concatenates 5 tokens together and stringifies the result.
?C: It might not exist, so #ifdef it in your code!
?C:.
?X: Dist pl70 included the following, but AIX's xlc compiler
?X: (which
 is ANSI-ish and has cpp_stuff == 42)) rejects
?X: The SQuoTe/EQuoTe stuff because the string literals are on
?X: separate lines.  Sigh.
?X:  Andy Dougherty   24 Feb 1998
?X: ?H:?%<:#if $cpp_stuff == 1
?X: ?H:?CAT2:#define CAT2(a,b)a/**/b
?X: ?H:?CAT3:#define CAT3(a,b,c)a/**/b/**/c
```

```
?X: ?H:?CAT4:#define CAT4(a,b,c,d)a/**/b/**/c/**/d
?X: ?H:?CAT5:#define CAT5(a,b,c,d,e)a/**/b/**/c/**/d/**/e
?X: ?H:?STRINGIFY:#define STRINGIFY(a)"a"
?X: ?H:?%<:#define SQuoTe(a)"a
?X: ?H:?%<:#define EQuoTe(a)a"
?X: ?H:?SCAT2:#define SCAT2(a,b)EQuoTe(SQuoTe(a)b)
?X: ?H:?SCAT3:#define SCAT3(a,b,c)EQuoTe(SQuoTe(a)b/**/c)
?X: ?H:?SCAT4:#define SCAT4(a,b,c,d)EQuoTe(SQuoTe(a)b/**/c/**/d)
?X: ?H:?SCAT5:#define SCAT5(a,b,c,d,e)EQuoTe(SQuoTe(a)b/**/c/**/d/**/e)
?X: ?H:?%<:#endif
?H:?%<:#if $cpp_stuff == 1
?H:?CAT2:#define CAT2(a,b) a/**/b
?H:?CAT3:#define CAT3(a,b,c) a/**/b/**/c
?H:?CAT4:#define CAT4(a,b,c,d) a/**/b/**/c/**/d
?H:?CAT5:#define CAT5(a,b,c,d,e) a/**/b/**/c/**/d/**/e
?H:?STRINGIFY:#define STRINGIFY(a) "a"
?X: If
 you can get stringification with catify, tell me how!
?H:?%<:#endif
?H:?%<:#if $cpp_stuff == 42
?H:?%<:#define PeRl_CaTiFy(a, b) a ## b
?H:?%<:#define PeRl_StGiFy(a) #a
?X: The additional level of indirection enables these macros to be
?X: used as arguments to other macros.  See K&R 2nd ed., page 231.
?H:?CAT2:#define CAT2(a,b) PeRl_CaTiFy(a,b)
?H:?CAT3:#define CAT3(a,b,c) CAT2(PeRl_CaTiFy(a,b),c)
?H:?CAT4:#define CAT4(a,b,c,d) CAT2(CAT3(a,b,c),d)
?H:?CAT5:#define CAT5(a,b,c,d,e) CAT2(CAT4(a,b,c,d),e)
?H:?%<:#define StGiFy(a) PeRl_StGiFy(a)
?H:?STRINGIFY:#define STRINGIFY(a) PeRl_StGiFy(a)
?H:?SCAT2:#define SCAT2(a,b) PeRl_StGiFy(a) PeRl_StGiFy(b)
?H:?SCAT3:#define SCAT3(a,b,c) PeRl_StGiFy(a) PeRl_StGiFy(b) PeRl_StGiFy(c)
?H:?SCAT4:#define SCAT4(a,b,c,d) PeRl_StGiFy(a) PeRl_StGiFy(b) PeRl_StGiFy(c) PeRl_StGiFy(d)
?H:?SCAT5:#define SCAT5(a,b,c,d,e) PeRl_StGiFy(a) PeRl_StGiFy(b) PeRl_StGiFy(c) PeRl_StGiFy(d)
PeRl_StGiFy(e)
?H:?%<:#endif
?H:?%<:#if $cpp_stuff != 1 && $cpp_stuff
 != 42
?H:?%<:#include "Bletch: How does this C preprocessor concatenate tokens?"
?H:?%<:#endif
?H:.
?W:%<:CAT2 CAT3 CAT4 CAT5 STRINGIFY SCAT2 SCAT3 SCAT4 SCAT5
?F:!cpp_stuff.c
?LINT:known StGiFy
?LINT:known PeRl_CaTiFy
?LINT:known PeRl_StGiFy
: how do we concatenate cpp tokens here?
echo " "
```

```
echo "Checking to see how your cpp does stuff like concatenate tokens..." >&4
$cat >cpp_stuff.c <<'EOCP'
#define RCAT(a,b)a/**/b
#define ACAT(a,b)a ## b
RCAT(Rei,ser)
ACAT(Cir,cus)
EOCP
$cppstdin $cppflags $cppminus <cpp_stuff.c >cpp_stuff.out 2>&1
if $contains 'Circus' cpp_stuff.out >/dev/null 2>&1; then
 echo "Oh!  Smells like ANSI's been here." >&4
 echo "We can catify or stringify, separately or together!"
 cpp_stuff=42
elif $contains 'Reiser' cpp_stuff.out >/dev/null 2>&1; then
 echo "Ah, yes!  The good old days!" >&4
 echo "However, in the good old days we don't know how to stringify and"
 echo "catify at the same time."
 cpp_stuff=1
else
 $cat >&4 <<EOM
Hmm, I don't seem to be able to concatenate
 tokens with your cpp.
You're going to have to edit the values of CAT[2-5] in config.h...
EOM
?X: It would be nice to have configure remind us at the end that some manual
?X: intervention is needed -- FIXME
 cpp_stuff="/* Help! How do we handle cpp_stuff? */*/"
fi
$rm -f cpp_stuff.*
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/cpp_stuff.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_charsprf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_charsprf.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:49  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:d_charsprf: cat rm +cc Setvar
?MAKE: -pick add $@ %<
?S:d_charsprf:
?S: This variable conditionally defines CHARSPRINTF if this system
?S: declares "char *sprintf()" in stdio.h.  The trend seems to be to
?S: declare it as "int sprintf()".
?S:.
?C:CHARSPRINTF:
?C: This symbol is defined if this system declares "char *sprintf()" in
?C: stdio.h.
  The trend seems to be to declare it as "int sprintf()".  It
?C: is up to the package author to declare sprintf correctly based on the
?C: symbol.
?C:.
?H:#$d_charsprf CHARSPRINTF  /**/
?H:.
?F:!ucbsprf.c !ucbsprf
?LINT:set d_charsprf
: see if sprintf is declared as int or pointer to char
echo " "
$cat >ucbsprf.c <<'EOF'
int main()
{
 int sprintf();
 char buf[10];
 exit((unsigned long)sprintf(buf,"%s","foo") > 10L);
}
EOF
if $cc -o ucbsprf ucbsprf.c >/dev/null 2>&1 && ./ucbsprf; then
 echo "Your sprintf() returns (int)." >&4
 val="$undef"
else
 echo "Your sprintf() returns (char*)." >&4
 val="$define"
fi
set d_charsprf
eval $setvar
$rm -f ucbsprf*
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_charsprf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_const.U,v $
?RCS: Revision 3.0.1.1  1993/11/10  17:33:41  ram
?RCS: patch14: stronger const check with added typedef for MIPS cc
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_const: cat rm cc ccflags Setvar
?MAKE: -pick add $@ %<
?S:d_const:
?S: This variable conditionally defines the HASCONST symbol, which
?S: indicates to the C program that this C compiler knows about the
?S: const type.
?S:.
?C:HASCONST ~ %<:
?C: This symbol,
 if defined, indicates that this C compiler knows about
?C: the const type. There is no need to actually test for that symbol
?C: within your programs. The mere use of the "const" keyword will
?C: trigger the necessary tests.
?C:.
?H:?%<:#$d_const HASCONST /**/
?H:?%<:#ifndef HASCONST
?H:?%<:#define const
?H:?%<:#endif
?H:.
?W:%<:const
?F:const.c const.o
?LINT:set d_const
?LINT:known const
: check for const keyword
echo " "
echo 'Checking to see if your C compiler knows about "const"...' >&4
$cat >const.c <<'EOCP'
?X: mmcg@bruce.cs.monash.edu.au reports that:
?X: The MIPS cc compiler (V2.10) on a dec 5000 running Ultrix 4.2A
?X: pretends to understand `const' but doesn't - it'll also fail to
?X: handle typedefs properly if they're declared const. To guard
?X: against this, boost up the test by using an explicit typedef...
typedef struct spug { int drokk; } spug;
int main()
{
```

```
 const char *foo;
 const spug y;
}
EOCP
if $cc -c $ccflags const.c >/dev/null 2>&1 ; then
 val="$define"
 echo "Yup,
 it does."
else
 val="$undef"
 echo "Nope, it doesn't."
fi
set d_const
eval $setvar
$rm -f const.c const.o
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_const.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strtok.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strtok.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:38  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The strtok routine now appears to be a standard one, but it was
?X: missing in early BSD systems.
?X:
?MAKE:d_strtok: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtok:
?S: This variable conditionally defines HAS_STRTOK if strtok() is
?S: available to scan strings for tokens.
?S:.
?C:HAS_STRTOK (STRTOK):
?C: This symbol, if defined, indicates
```

```
 that the strtok routine is
?C: available to scan strings for tokens.
?C:.
?H:#$d_strtok HAS_STRTOK /**/
?H:.
?LINT:set d_strtok
: see if strtok exists
set strtok d_strtok
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strtok.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fork.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_fork.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:38  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_fork: Inlibc
?MAKE: -pick add $@ %<
?S:d_fork:
?S: This variable conditionally defines the HAS_FORK symbol, which
?S: indicates to the C program that the fork() routine is available.
?S:.
?C:HAS_FORK :
?C: This symbol, if defined, indicates that the fork routine is
?C: available.
?C:.
?H:#$d_fork
 HAS_FORK  /**/
?H:.
?LINT:set d_fork
: see if fork exists
set fork d_fork
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_fork.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: lseektype.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:30:10  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lseektype: Myread Typedef
?MAKE: -pick add $@ %<
?S:lseektype:
?S: This variable defines lseektype to be something like off_t, long,
?S: or whatever type is used to declare lseek offset's type in the
?S: kernel (which also appears to be lseek's return type).
?S:.
?C:Off_t
 (LSEEKTYPE):
?C: This symbol holds the type used to declare offsets in the kernel.
?C: It can be int, long, off_t, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Off_t $lseektype  /* <offset> type */
?H:.
: see what type lseek is declared as in the kernel
set off_t lseektype long stdio.h sys/types.h
eval $typedef
echo " "
dflt="$lseektype"
rp="What type is lseek's offset on this system declared as?"
. ./myread
lseektype="$ans"
```

Found in path(s):

* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/lseektype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_volatile.U,v 3.0.1.2 1995/07/25 14:08:49 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_volatile.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:08:49  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0.1.1  1993/09/09  11:49:51  ram
?RCS: patch9: volatile definition was swapped over with undef
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_volatile: cat +cc +ccflags rm_try Setvar
?MAKE: -pick add $@ %<
?S:d_volatile:
?S: This variable conditionally
 defines the HASVOLATILE symbol, which
?S: indicates to the C program that this C compiler knows about the
?S: volatile declaration.
?S:.
?C:HASVOLATILE ~ %<:
?C: This symbol, if defined, indicates that this C compiler knows about
?C: the volatile declaration.
?C:.
?H:?%<:#$d_volatile HASVOLATILE /**/
?H:?%<:#ifndef HASVOLATILE
?H:?%<:#define volatile
?H:?%<:#endif
?H:.
?LINT:set d_volatile
?LINT:known volatile
: check for volatile keyword
echo " "
echo 'Checking to see if your C compiler knows about "volatile"...' >&4
$cat >try.c <<'EOCP'
int main()
```

```
{
?X:
?X: The following seven lines added by Bill Campbell <billc@sierra.com>
?X: detect that MIPS compilers do not handle volatile in all situations.
?X:
 typedef struct _goo_struct goo_struct;
 goo_struct * volatile goo = ((goo_struct *)0);
 struct _goo_struct {
  long long_int;
  int reg_int;
  char char_var;
 };
 typedef unsigned short foo_t;
 char *volatile foo;
 volatile int bar;
 volatile foo_t blech;
 foo = foo;
}
EOCP
if $cc
 -c $ccflags try.c >/dev/null 2>&1 ; then
 val="$define"
 echo "Yup, it does."
else
 val="$undef"
 echo "Nope, it doesn't."
fi
set d_volatile
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_volatile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setsid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setsid.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:06:49  ram
```

```
?RCS: patch16: created
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setsid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setsid:
?S: This variable conditionally defines HAS_SETSID if setsid() is
?S: available to set the process group ID.
?S:.
?C:HAS_SETSID:
?C: This symbol, if defined, indicates that the setsid routine is
?C: available
 to set the process group ID.
?C:.
?H:#$d_setsid HAS_SETSID /**/
?H:.
?LINT:set d_setsid
: see if setsid exists
set setsid d_setsid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setsid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_remquo: Inlibc
?MAKE: -pick add $@ %<
?S:d_remquo:
?S: This variable conditionally defines the HAS_REMQUO symbol, which
?S: indicates to the C program that the remquo() routine is available.
?S:.
?C:HAS_REMQUO:
?C: This symbol, if defined, indicates that the remquo routine is
?C: available to return the remainder and part of quotient.
?C:.
?H:#$d_remquo HAS_REMQUO  /**/
?H:.
?LINT:set d_remquo
: see if remquo exists
set remquo d_remquo
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_remquo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_dbl_dig.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_dbl_dig.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:28  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_dbl_dig: Myread contains cat rm Setvar i_limits i_float \
 cppstdin cppflags cppminus
?MAKE: -pick add $@ %<
?S:d_dbl_dig:
?S: This variable conditionally defines d_dbl_dig if this system's
?S: header files provide DBL_DIG, which is the number of significant
?S: digits
 in a double precision number.
?S:.
?C:HAS_DBL_DIG:
?C: This symbol, if defined, indicates that this system's <float.h>
?C: or <limits.h> defines the symbol DBL_DIG, which is the number
?C: of significant digits in a double precision number.  If this
?C: symbol is not defined, a guess of 15 is usually pretty good.
?C:.
?H:#$d_dbl_dig HAS_DBL_DIG  /**/
?H:.
?F:!dbl_dig.c
?LINT:set d_dbl_dig
: See if number of significant digits in a double precision number is known
echo " "
$cat >dbl_dig.c <<EOM
#$i_limits I_LIMITS
#$i_float I_FLOAT
#ifdef I_LIMITS
#include <limits.h>
#endif
```

```
#ifdef I_FLOAT
#include <float.h>
#endif
#ifdef DBL_DIG
printf("Contains DBL_DIG");
#endif
EOM
$cppstdin $cppflags $cppminus < dbl_dig.c >dbl_dig.E 2>/dev/null
if $contains 'DBL_DIG' dbl_dig.E >/dev/null 2>&1; then
 echo "DBL_DIG found." >&4
 val="$define"
else
 echo "DBL_DIG NOT found." >&4
 val="$undef"
fi
$rm -f dbl_dig.?
set d_dbl_dig
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_dbl_dig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: longsize.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: longsize.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:09:35  ram
?RCS: patch61: code moved to intsize.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:24:31  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: 'longsize' is now defined within intsize.U
?X:
?LINT: empty
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/longsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_msem_lck.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msem_lck.U,v $
?MAKE:d_msem_lck: Inlibc
?MAKE: -pick add $@ %<
?S:d_msem_lck:
?S: This variable conditionally defines HAS_MSEM_LOCK if msem_lock() is
?S: available, thereby indicating kernel support for memory semaphores.
?S:.
?C:HAS_MSEM_LOCK:
?C: This symbol, if defined, indicates that memory semaphores are
?C: available to protect mmap()'ed regions.
?C:.
?H:#$d_msem_lck HAS_MSEM_LOCK  /**/
?H:.
?LINT:set d_msem_lck
: see if msem_lock exists
set
 msem_lock d_msem_lck
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_msem_lck.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_atanh: Inlibc
?MAKE: -pick add $@ %<
?S:d_atanh:
?S: This variable conditionally defines the HAS_ATANH symbol, which
?S: indicates to the C program that the atanh() routine is available.
```

```
?S:.
?C:HAS_ATANH:
?C: This symbol, if defined, indicates that the atanh routine is
?C: available to do the inverse hyperbolic tangent function.
?C:.
?H:#$d_atanh HAS_ATANH  /**/
?H:.
?LINT:set d_atanh
: see if atanh exists
set atanh d_atanh
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_atanh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_usendir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_usendir.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:47:34  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: likewise for .o replaced by $_o
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_usendir i_ndir ndirlib: test Setvar Findhdr d_readdir _a
?MAKE: -pick add $@ %<
?S:d_usendir:
?S: This variable conditionally defines the EMULATE_NDIR symbol, which
?S: indicates
 to the C program that it should compile the ndir.c code
?S: provided with the package.
?S:.
?S:i_ndir (d_libndir):
?S: This variable conditionally defines the I_NDIR symbol, which
?S: indicates to the C program that it should include the system's
?S: version of ndir.h, rather than the one with this package.
?S:.
```

```
?S:ndirlib:
?S: The name of the library to include at linking stage to resolve ndir
?S: symbols. It is up to the makefile to use this value.
?S:.
?C:EMULATE_NDIR (USENDIR):
?C: This symbol, if defined, indicates that the program should compile
?C: the ndir.c code provided with the package.
?C:.
?C:I_NDIR (LIBNDIR):
?C: This symbol, if defined, indicates that the program should include the
?C: system's version of ndir.h, rather than the one with this package.
?C:.
?H:#$d_usendir EMULATE_NDIR  /**/
?H:#$i_ndir I_NDIR  /**/
?H:.
?T:val2
?LINT: set d_usendir i_ndir
: see if there are directory access routines out there
echo " "
if $test `./findhdr ndir.h` && \
 ( $test -r /usr/lib/libndir$_a
 || $test -r /usr/local/lib/libndir$_a ); then
 echo "Ndir library found." >&4
 if $test -r /usr/lib/libndir$_a; then
  ndirlib='-lndir'
 else
  ndirlib="/usr/local/lib/libndir$_a"
 fi
 val2="$define"
 val="$undef"
else
 ndirlib=''
 val2="$undef"
 case "$d_readdir" in
 "$define")
 echo "No ndir library found, but you have readdir() so we'll use that." >&4
  val="$undef";
  ;;
 *)
  echo "No ndir library found." >&4
  val="$define"
  ;;
 esac
fi
set d_usendir
eval $setvar
val="$val2"
set i_ndir
```

```
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_usendir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_PORTAR.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_PORTAR.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:08:42  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:40  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_PORTAR: cat +cc rm Setvar
?MAKE: -pick add $@ %<
?S:d_PORTAR:
?S: This variable conditionally handles definition of PORTAR,
?S: a creation of greater minds than I can imagine.
?S:.
?C:PORTAR:
?C: This manifest constant must
 be defined to 1 for some implementations
?C: of ar.h to get the portable ar most everybody uses.
?C:.
?L:ar_fmag:
?L:ARFMAG:
?L:SARMAG:
?H:#$d_PORTAR PORTAR 1 /**/
?H:.
?F:!portar
?LINT:set d_PORTAR
: see if we need to define PORTAR
echo " "
echo 'Checking to see if we need to define PORTAR for portable archives...' >&4
$cat >portar.c <<'EOCP'
#include <ar.h>
int main() {
```

```
 char *arfmag = ARFMAG;
 int sarmag = SARMAG;
 struct ar_hdr arh;

 strncpy(arh.ar_fmag, arfmag, 2);

#ifdef PORTAR
 printf("D\n");
#else
 printf("U\n");
#endif
 exit(0);}
EOCP
if $cc -o portar portar.c >/dev/null 2>&1 || \
 $cc -DPORTAR=1 -o portar portar.c >/dev/null 2>&1 ; then
 case "`./portar`" in
 D)
  val="$define"
  echo "We'll be defining PORTAR for you."
  ;;
 U)
  val="$undef"
  echo "We don't seem to need PORTAR defined here."
  ;;
 *)
  val="$define"
  echo "(My test program gave me an unexpected value!)"
  echo "I'll just define PORTAR to be sure."
  ;;
 esac
else
 echo "(Strange, I couldn't get my test
 program to compile.)"
 echo "We'll just define PORTAR in this case."
 val="$define"
fi
set d_PORTAR
eval $setvar
$rm -f portar*
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_PORTAR.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sbrk.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sbrk.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:06:31  ram
?RCS: patch16: created
?RCS:
?MAKE:d_sbrk: Inlibc
?MAKE: -pick add $@ %<
?S:d_sbrk:
?S: This variable conditionally defines HAS_SBRK if sbrk() is
?S: available to add more core to the process.
?S:.
?C:HAS_SBRK:
?C: This symbol, if defined, indicates that the sbrk system call is
?C: available to add/relase core. Always true on Unix.
?C:.
?H:#$d_sbrk HAS_SBRK /**/
?H:.
?LINT:set d_sbrk
: see
 if sbrk exists
set sbrk d_sbrk
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sbrk.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_wcstombs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_wcstombs.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:d_wcstombs: Inlibc
?MAKE: -pick add $@ %<
?S:d_wcstombs:
?S: This variable conditionally defines the HAS_WCSTOMBS symbol, which
?S: indicates to the C program that the wcstombs() routine is available
?S: to convert wide character strings to multibyte strings.
?S:.
?C:HAS_WCSTOMBS:
?C: This symbol, if defined, indicates that the wcstombs
 routine is
?C: available to convert wide character strings to multibyte strings.
?C:.
?H:#$d_wcstombs HAS_WCSTOMBS /**/
?H:.
?LINT:set d_wcstombs
: see if wcstombs exists
set wcstombs d_wcstombs
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_wcstombs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_siglist.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_siglist.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:22  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_siglist: Csym Setvar
?MAKE: -pick add $@ %<
?S:d_siglist:
?S: This variable conditionally defines HAS_SYS_SIGLIST if sys_siglist[] is
?S: available to translate signal numbers to strings.
?S:.
?C:HAS_SYS_SIGLIST (SYS_SIGLIST):
?C: This symbol, if defined, indicates that the sys_siglist array is
?C: available to translate signal numbers
```

```
 to strings.
?C:.
?H:#$d_siglist HAS_SYS_SIGLIST  /**/
?H:.
?LINT:set d_siglist
: see if sys_siglist[] exist
echo " "
if set sys_siglist val -a d_siglist; eval $csym; $val; then
 echo "You have sys_siglist[] for signal description." >&4
 val="$define"
else
 echo "You don't have sys_siglist[]." >&4
 val="$undef"
fi
set d_siglist
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_siglist.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: siteprefix.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: siteprefix.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:siteprefix siteprefixexp +oldsiteprefix: Getfile Loc Oldconfig cat package prefix
?MAKE: -pick add $@ %<
?S:siteprefix:
?S: This variable holds the full absolute path of the directory below
?S: which the user will install add-on packages.
?S: See INSTALL for usage and examples.
?S:.
?S:siteprefixexp:
?S: This variable holds the full absolute path of the
 directory below
?S: which the user will install add-on packages.  Derived from siteprefix.
?S:.
```

```
?S:oldsiteprefix:
?S: This variable is set non-null if the siteprefix was previously defined
?S: and gets set to a new value. Used internally by Configure only.
?S:.
: Set the siteprefix variables
$cat <<EOM

After $package is installed, you may wish to install various
add-on modules and utilities.  Typically, these add-ons will
be installed under $prefix with the rest
of this package.  However, you may wish to install such add-ons
elsewhere under a different prefix.

If you do not wish to put everything under a single prefix, that's
ok.  You will be prompted for the individual locations; this siteprefix
is only used to suggest the defaults.

The default should be fine for most people.

EOM
fn=d~+
rp='Installation prefix to use for add-on modules and utilities?'
: XXX Here might be another good place for an installstyle setting.
case "$siteprefix" in
") dflt=$prefix ;;
*)  dflt=$siteprefix
 ;;
esac
. ./getfile
: XXX Prefixit unit does not yet support siteprefix and vendorprefix
oldsiteprefix="
case "$siteprefix" in
") ;;
*) case "$ans" in
 "$prefix") ;;
 *) oldsiteprefix="$prefix";;
 esac
 ;;
esac
siteprefix="$ans"
siteprefixexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/siteprefix.U
No license file was found, but licenses were detected in source scan.

?RCS: Id

```
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_modfl d_modflproto: Inlibc Compile Hasproto cat \
 test ccflags uselongdouble \
 d_sqrtl d_aintl d_copysignl d_ilogbl d_scalbnl d_frexpl d_ldexpl \
 d_truncl
?MAKE: -pick add $@ %<
?S:d_modfl:
?S: This variable conditionally defines the HAS_MODFL symbol, which
?S: indicates to the C program that the modfl() routine is available.
?S:.
?S:d_modflproto:
?S: This symbol, if defined, indicates that the system provides
?S: a prototype for the modfl() function.  Otherwise, it is up
?S: to the program to supply one.  C99 says it should be
?S:  long double modfl(long double, long double *);
?S:.
?C:HAS_MODFL:
?C: This symbol, if defined, indicates that the modfl routine is
?C: available to split a long double
 x into a fractional part f and
?C: an integer part i such that |f| < 1.0 and (f + i) = x.
?C:.
?C:HAS_MODFL_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the modfl() function.  Otherwise, it is up
?C: to the program to supply one.
?C:.
?H:#$d_modfl HAS_MODFL  /**/
?H:#$d_modflproto HAS_MODFL_PROTO  /**/
?H:.
?T:message
?LINT:set d_modfl
?LINT:set d_modflproto
?LINT:change ccflags
: see if modfl exists
set modfl d_modfl
eval $inlibc

: see if prototype for modfl is available
echo " "
set d_modflproto modfl define math.h
eval $hasproto
```

```
if $test "$uselongdouble" = "$define"; then
  message=""
  if $test "$d_sqrtl" != "$define"; then
 message="$message sqrtl"
  fi
  if $test "$d_modfl" != "$define"; then
 if $test "$d_truncl:$d_copysignl" = "$define:$define"; then
    echo "You have both truncl and copysignl, so I can emulate modfl."
 else
    if $test "$d_aintl:$d_copysignl" = "$define:$define"; then
  echo "You have both aintl
 and copysignl, so I can emulate modfl."
    else
  message="$message modfl"
    fi
 fi
  fi
  if $test "$d_frexpl" != "$define"; then
 if $test "$d_ilogbl:$d_scalbnl" = "$define:$define"; then
    echo "You have both ilogbl and scalbnl, so I can emulate frexpl."
 else
    message="$message frexpl"
 fi
  fi
  if $test "$d_ldexpl" != "$define"; then
 message="$message ldexpl"
  fi

  if $test "$message" != ""; then
 $cat <<EOM >&4

*** You requested the use of long doubles but you do not seem to have
*** the following mathematical functions needed for long double support:
***    $message
*** Please rerun Configure without -Duselongdouble and/or -Dusemorebits.
*** Cannot continue, aborting.

EOM

 exit 1
  fi
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_modfl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_systwgcf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_systwgcf.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_systwgcf: Inhdr
?MAKE: -pick add $@ %<
?S:i_systwgcf:
?S: This variable conditionally defines the I_SYS_TWG_CF symbol, and
?S: indicates whether a C program should include sys/twg_config.h.
?S:.
?C:I_SYS_TWG_CF:
?C: This symbol, if defined, indicates to the C program that it should
?C: include sys/twg_config.h.
?C:.
?H:#$i_systwgcf
 I_SYS_TWG_CF /**/
?H:.
?LINT:set i_systwgcf
: see if this is a sys/twg_config.h system
set sys/twg_config.h i_systwgcf
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_systwgcf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extractall.U,v $
```

```
?RCS: Revision 3.0.1.1  1997/02/28  15:00:43  ram
?RCS: patch61: created
?RCS:
?X:
?X: If extraction has been requested, load the configuration file, perform
?X: the extraction and exit.
?X:
?X: This unit was originally a part of Options.U. It had to be removed from
?X: it to prevent a dependency cycle: Extract -> src -> Options -> Extract
?X: The Begin.U unit now requires us before beginning to do anything
?X: interesting, to ensure proper semantics. -- RAM, 15/03/96
?X:
?MAKE:Extractall:
 Extract Options
?MAKE: -pick wipe $@ %<
: extract files and exit if asked to do so
case "$extractsh" in
true)
?X: Undo the forced silent=true when -S was supplied, by probing realsilent
?X: which was set iff -s was also given. See Options.U for details.
 case "$realsilent" in
 true) ;;
 *) exec 1>&4;;
 esac
 case "$config_sh" in
 ") config_sh='config.sh';;
 esac
 echo " "
 echo "Fetching answers from $config_sh..."
 cd ..
 . $config_sh
 test "$override" && . ./optdef.sh
 echo " "
?X: extract has to be run from the top directory, not within UU.
 . UU/extract
 rm -rf UU
 echo "Extraction done."
 exit 0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Extractall.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_perlio.U,v $
?RCS:
```

```
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_perlio.U,v $
?RCS:
?MAKE:useperlio: Myread Oldconfig Setvar
?MAKE: -pick add $@ %<
?Y:TOP
?S:useperlio:
?S: This variable conditionally defines the USE_PERLIO symbol,
?S: and indicates that the PerlIO abstraction should be
?S: used throughout.
?S:.
?C:USE_PERLIO:
?C: This symbol, if defined, indicates that the PerlIO abstraction should
?C: be used throughout.  If not defined, stdio should be
?C: used in a fully backward compatible manner.
?C:.
?H:?%<:#ifndef USE_PERLIO
?H:?%<:#$useperlio USE_PERLIO  /**/
?H:?%<:#endif
?H:.
: Check if we want perlio
useperlio="$define"
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/useperlio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_killpg.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_killpg.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_killpg: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_killpg:
?S: This variable conditionally defines the HAS_KILLPG symbol, which
?S: indicates to the C program that the killpg() routine is available
?S: to kill process groups.
?S:.
?C:HAS_KILLPG (KILLPG):
?C: This symbol, if defined, indicates that the killpg routine is available
?C: to kill
 process groups.  If unavailable, you probably should use kill
?C: with a negative process number.
?C:.
?H:#$d_killpg HAS_KILLPG /**/
?H:.
?LINT:set d_killpg
: see if killpg exists
set killpg d_killpg
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_killpg.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_table.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_table.U,v $
?RCS: Revision 3.0.1.2  1993/11/10  17:34:14  ram
?RCS: patch14: wrongly mentionned an obsolete symbol
?RCS:
?RCS: Revision 3.0.1.1  1993/10/16  13:49:29  ram
?RCS: patch12: created
?RCS:
?MAKE:d_table: Inlibc
?MAKE: -pick add $@ %<
?S:d_table:
?S: This variable conditionally defines HAS_TABLE if table() is
?S: available to examine/update elements from a system table.
?S:.
?C:HAS_TABLE:
?C: This symbol, if defined, indicates that the OSF/1
```

```
 table() system
?C: call is available to examine/update items from a system table.
?C:.
?H:#$d_table HAS_TABLE /**/
?H:.
?LINT:set d_table
: see if table exists
set table d_table
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_table.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_casti32.U,v 3.0.1.3 1995/05/12 12:10:45 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_casti32.U,v $
?RCS: Revision 3.0.1.3  1995/05/12  12:10:45  ram
?RCS: patch54: made sure cc and ccflags are conditional dependencies
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:09:37  ram
?RCS: patch36: declare signal handler correctly (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:06  ram
?RCS: patch32: created by ADO
?RCS:
?X:
?X: Can the compiler cast large floats to
 32-bit integers?
?X:
?MAKE:d_casti32: cat Compile rm_try intsize Setvar test signal_t run i_stdlib
?MAKE: -pick add $@ %<
?S:d_casti32:
?S: This variable conditionally defines CASTI32, which indicates
?S: whether the C compiler can cast large floats to 32-bit ints.
?S:.
?C:CASTI32:
```

```
?C: This symbol is defined if the C compiler can cast negative
?C: or large floating point numbers to 32-bit ints.
?C:.
?H:#$d_casti32 CASTI32  /**/
?H:.
?T:xxx yyy
?F:!try
?LINT:set d_casti32
: check for ability to cast large floats to 32-bit ints.
echo " "
echo 'Checking whether your C compiler can cast large floats to int32.' >&4
if $test "$intsize" -ge 4; then
 xxx=int
else
 xxx=long
fi
$cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <sys/types.h>
#include <signal.h>
$signal_t blech(int s) { exit(3); }
int main()
{
 $xxx i32;
 double f, g;
 int result = 0;
 char str[16];
 signal(SIGFPE, blech);

 /* Don't let compiler optimize the test away.
  Store the number
   in a writable string for gcc to pass to sscanf under HP-UX.
 */
 sprintf(str, "2147483647");
 sscanf(str, "%lf", &f); /* f = (double) 0x7fffffff; */
 g = 10 * f;
 i32  = ($xxx) g;

 /* x86 processors will probably give 0x8000 0000, which is a
   sign change.  We don't want that.  We want to mimic SPARC
   behavior here, which is to preserve the sign and give
   back 0x7fff ffff.
 */
 if (i32 != ($xxx) f)
```

```
  result |= 1;
 exit(result);
}
EOCP
set try
if eval $compile_ok; then
 $run ./try 2>/dev/null
 yyy=$?
else
 echo "(I can't seem to compile the test program--assuming it can't)"
 yyy=1
fi
case "$yyy" in
0) val="$define"
 echo "Yup, it can."
 ;;
*) val="$undef"
 echo "Nope, it can't."
 ;;
esac
set d_casti32
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_casti32.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getmntent: Inlibc
?MAKE: -pick add $@ %<
?S:d_getmntent:
?S: This variable conditionally defines the HAS_GETMNTENT symbol, which
?S: indicates to the C program that the getmntent() routine is available
?S: to iterate through mounted files to get their mount info.
?S:.
?C:HAS_GETMNTENT:
?C: This symbol, if defined, indicates that the getmntent routine is
?C: available to iterate through mounted file systems to get their info.
?C:.
?H:#$d_getmntent HAS_GETMNTENT  /**/
```

```
?H:.
?LINT:set d_getmntent
: see if getmntent exists
set getmntent d_getmntent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_getmntent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_float.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_float.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:21:57  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:i_float: Inhdr
?MAKE: -pick add $@ %<
?S:i_float:
?S: This variable conditionally defines the I_FLOAT symbol, and indicates
?S: whether a C program may include <float.h> to get symbols like DBL_MAX
?S: or DBL_MIN, i.e. machine dependent floating point values.
?S:.
?C:I_FLOAT:
?C: This
 symbol, if defined, indicates to the C program that it should
?C: include <float.h> to get definition of symbols like DBL_MAX or
?C: DBL_MIN, i.e. machine dependent floating point values.
?C:.
?H:#$i_float I_FLOAT  /**/
?H:.
?LINT:set i_float
: see if this is a float.h system
set float.h i_float
eval $inhdr
```

Found in path(s):

* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_float.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpgrp2.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getpgrp2.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getpgrp2: Inlibc
?MAKE: -pick add $@ %<
?S:d_getpgrp2:
?S: This variable conditionally defines the HAS_GETPGRP2 symbol, which
?S: indicates to the C program that the getpgrp2() (as in DG/UX) routine
?S: is available to get the current process group.
?S:.
?C:HAS_GETPGRP2 (GETPGRP2):
?C: This symbol, if defined, indicates that the
 getpgrp2() (as in DG/UX)
?C: routine is available to get the current process group.
?C:.
?H:#$d_getpgrp2 HAS_GETPGRP2  /**/
?H:.
?LINT:set d_getpgrp2
: see if getpgrp2 exists
set getpgrp2 d_getpgrp2
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getpgrp2.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_expm1: Inlibc
?MAKE: -pick add $@ %<
?S:d_expm1:
```

```
?S: This variable conditionally defines the HAS_EXPM1 symbol, which
?S: indicates to the C program that the expm1() routine is available.
?S:.
?C:HAS_EXPM1:
?C: This symbol, if defined, indicates that the expm1 routine is
?C: available to do the exp(x) - 1 when x is near 1 function.
?C:.
?H:#$d_expm1 HAS_EXPM1  /**/
?H:.
?LINT:set d_expm1
: see if expm1 exists
set expm1 d_expm1
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_expm1.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getenv_thread.U,v 0RCS:
?RCS: Copyright (c) 2021 H.Merijn Brand, Karl Williamson
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getenv_preserves_other_thread: echo cat i_stdlib i_pthread run rm_try \
 Compile Setvar
?MAKE: -pick add $@ %<
?S:d_getenv_preserves_other_thread:
?S: This variable conditionally defines the GETENV_PRESERVES_OTHER_THREAD
?S: symbol, which indicates to the C program that the getenv() system call
?S: does not zap the static buffer in a different thread.
?S:.
?C:GETENV_PRESERVES_OTHER_THREAD:
?C: This symbol, if defined, indicates that the getenv system call doesn't
?C: zap the static buffer of getenv() in a different thread.
?C:
?C: The typical getenv() implementation will return a pointer to the proper
?C: position in **environ.  But some may instead copy them to
 a static
?C: buffer in getenv().  If there is a per-thread instance of that buffer,
?C: or the return points to **environ, then a many-reader/1-writer mutex
?C: will work; otherwise an exclusive locking mutex is required to prevent
?C: races.
?C:.
?H:#$d_getenv_preserves_other_thread GETENV_PRESERVES_OTHER_THREAD /**/
?H:.
?T:rc
```

```
?F:!try
?LINT:set d_getenv_preserves_other_thread
: check for getenv behavior
case "$d_getenv_preserves_other_thread" in
")
$echo "Checking to see if getenv() preserves a different thread's results" >&4
$cat >try.c <<EOCP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#include <stdio.h>
#include <string.h>
#$i_pthread I_PTHREAD
#ifdef I_PTHREAD
#  include <pthread.h>
#endif

void *
thread_start(void * arg)
{
   return (void *) getenv("HOME");
}

int main() {
   char * main_buffer;
   char save_main_buffer[1000];
   pthread_t subthread;
   pthread_attr_t attr;

   main_buffer = getenv("PATH");

   /* If too large for our generous allowance,
 return we couldn't figure it
    * out. */
   if (strlen(main_buffer) >= sizeof(save_main_buffer)) {
       exit(2);
   }

   strcpy(save_main_buffer, main_buffer);

   if (pthread_attr_init(&attr) != 0) {
       exit(2);
   }

   if (pthread_create(&subthread, &attr, thread_start, NULL) != 0) {
       exit(2);
   }
```

```
   if (pthread_join(subthread, NULL) != 0) {
       exit(2);
   }

   exit(! (strcmp(main_buffer, save_main_buffer) == 0));
}
EOCP
val=
set try
if eval $compile_ok; then
   $run ./try
   rc=$?
   case "$rc" in
 0) echo "getenv() didn't destroy another thread's buffer" >&4
    val=$define
    ;;
 1) echo "getenv() does destroy another thread's buffer" >&4
    val=$undef
    ;;
 *) echo "Couldn't determine if getenv() destroys another thread's return value (code=$rc); assuming it does" >&4
    val=$undef
    ;;
   esac
else
   echo "(I can't seem to compile the test program.)" >&4
   echo "Assuming that your C library's getenv destroys another thread's
 return value." >&4
   val=$undef
fi
set d_getenv_preserves_other_thread
eval $setvar
$rm_try
;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getenv_thread.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getprotobyname_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
```

```
?RCS:
?MAKE:d_getprotobyname_r getprotobyname_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getprotobyname_r:
?S: This variable conditionally defines the HAS_GETPROTOBYNAME_R symbol,
?S: which indicates to the C program that the getprotobyname_r()
?S: routine is available.
?S:.
?S:getprotobyname_r_proto:
?S: This variable encodes the prototype of getprotobyname_r.
?S: It is zero if d_getprotobyname_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getprotobyname_r
?S: is defined.
?S:.
?C:HAS_GETPROTOBYNAME_R:
?C: This symbol, if
 defined, indicates that the getprotobyname_r routine
?C: is available to getprotobyname re-entrantly.
?C:.
?C:GETPROTOBYNAME_R_PROTO:
?C: This symbol encodes the prototype of getprotobyname_r.
?C: It is zero if d_getprotobyname_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getprotobyname_r
?C: is defined.
?C:.
?H:#$d_getprotobyname_r HAS_GETPROTOBYNAME_R /**/
?H:#define GETPROTOBYNAME_R_PROTO $getprotobyname_r_proto /**/
?H:.
?T:try hdrs d_getprotobyname_r_proto
: see if getprotobyname_r exists
set getprotobyname_r d_getprotobyname_r
eval $inlibc
case "$d_getprotobyname_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getprotobyname_r_proto:$usethreads" in
 ":define") d_getprotobyname_r_proto=define
  set d_getprotobyname_r_proto getprotobyname_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getprotobyname_r_proto" in
 define)
 case "$getprotobyname_r_proto" in
 "|0) try='int getprotobyname_r(const char*, struct
 protoent*, char*, size_t, struct protoent**);'
 ./protochk "$extern_C $try" $hdrs && getprotobyname_r_proto=I_CSBWR ;;
```

```
 esac
 case "$getprotobyname_r_proto" in
 "|0) try='struct protoent* getprotobyname_r(const char*, struct protoent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getprotobyname_r_proto=S_CSBI ;;
 esac
 case "$getprotobyname_r_proto" in
 "|0) try='int getprotobyname_r(const char*, struct protoent*, struct protoent_data*);'
 ./protochk "$extern_C $try" $hdrs && getprotobyname_r_proto=I_CSD ;;
 esac
 case "$getprotobyname_r_proto" in
 "|0) d_getprotobyname_r=undef
  getprotobyname_r_proto=0
  echo "Disabling getprotobyname_r, cannot determine prototype." >&4 ;;
 * ) case "$getprotobyname_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getprotobyname_r_proto="REENTRANT_PROTO_$getprotobyname_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getprotobyname_r has no prototype, not using it." >&4 ;;
  esac
  d_getprotobyname_r=undef
  getprotobyname_r_proto=0
  ;;
 esac
 ;;
*) getprotobyname_r_proto=0
 ;;
esac

Found
 in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
5.36.0/U/threads/d_getprotobyname_r.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_mblen.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_mblen.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:09:40  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_mblen: Inlibc
?MAKE: -pick add $@ %<
?S:d_mblen:
?S: This variable conditionally defines the HAS_MBLEN symbol, which
?S: indicates to the C program that the mblen() routine is available
?S: to find the number of bytes in a multibyte character.
?S:.
?C:HAS_MBLEN:
?C: This
 symbol, if defined, indicates that the mblen routine is available
?C: to find the number of bytes in a multibyte character.
?C:.
?H:#$d_mblen HAS_MBLEN  /**/
?H:.
?LINT:set d_mblen
: see if mblen exists
set mblen d_mblen
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_mblen.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_j0 d_j0l: Inlibc
?MAKE: -pick add $@ %<
?S:d_j0:
?S: This variable conditionally defines the HAS_J0 symbol, which
?S: indicates to the C program that the j0() routine is available.
?S:.
?S:d_j0l:
?S: This variable conditionally defines the HAS_J0L symbol, which
?S: indicates to the C program that the j0l() routine is available.
?S:.
?C:HAS_J0:
?C: This symbol, if defined, indicates to the C program that the
?C: j0() function is available for Bessel functions of the first
?C: kind of the order zero, for doubles.
?C:.
```

```
?C:HAS_J0L:
?C: This symbol, if defined, indicates to the C program that the
?C: j0l() function is available for Bessel functions of the first
?C: kind of the order zero, for long doubles.
?C:.
?H:#$d_j0 HAS_J0  /**/
?H:#$d_j0l HAS_J0L  /**/
?H:.
?LINT:set
 d_j0
?LINT:set d_j0l
: see if j0 exists
set j0 d_j0
eval $inlibc

: see if j0l exists
set j0l d_j0l
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_j0.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: contains.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 2020, Raphael Manfredi and Karl Williamson
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:compiler_warning: contains grep osname
?MAKE: -pick add $@ %<
?S:compiler_warning:
?S: This variable holds the command to check if the file specified as a
?S: parameter contains a compiler warning
?S:.
: See if a file contains compiler warnings
: See if a file contains compiler warnings
case "$osname" in
 'aix')
 cat >compiler_warning <<EOSS
# Sample for aix ('.5' indicates the column number in the line):
#    "op.h", line 203.5: 1506-159 (E) Bit field
```

```
 type specified for op_type
# Since the word 'warning' isn't present, use a fairly rigorous match of what
# warning messages look like
#           "    o       p       .  h   ", line    203      .   5       :   1506     -    159      (  E  )
$grep -E "^\\"[A-Za-z][A-Za-z0-9_]*\.[ch]\\", line [1-9][0-9]*[.][1-9][0-9]*: [1-9][0-9]*-[1-9][0-9]* \([EW][)] "
"\$1"
EOSS
      compiler_warning=./compiler_warning
      chmod +x $compiler_warning
   ;;
    # Maybe a colon after the 'warning' would be appropriate
 *) compiler_warning="$contains -i warning"
   ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/compiler_warning.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: man1dir.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:10:29  ram
?RCS: patch61: created
?RCS:
?X:
?X: This was originally specific to perl5.  Since perl5 has man pages that
?X: go in both man1/ and man3/ directories, we need both man1dir
?X: and man3dir.  This unit is basically dist's mansrc.U with
?X: man1 used instead of man everywhere.
?X:
?MAKE:man1dir man1direxp man1ext installman1dir: afs cat nroff Loc Oldconfig \
 spackage test Getfile Prefixit prefixexp
 Prefixup sysman Myread
?MAKE: -pick add $@ %<
?Y:TOP
?S:man1dir:
?S: This variable contains the name of the directory in which manual
```

```
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?S:man1direxp:
?S: This variable is the same as the man1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?S:installman1dir:
?S: This variable is really the same as man1direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man1direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:man1ext:
?S: This variable contains the extension that the manual page should
?S: have: one of 'n', 'l', or '1'.  The Makefile must supply the '.'.
?S: See man1dir.
?S:.
?T:lookpath
: determine
 where manual pages go
set man1dir man1dir none
eval $prefixit
$cat <<EOM

$spackage has manual pages available in source form.
EOM
case "$nroff" in
nroff)
 echo "However, you don't have nroff, so they're probably useless to you."
 case "$man1dir" in
 ") man1dir="none";;
 esac;;
esac
echo "If you don't want the manual sources installed, answer 'none'."
case "$man1dir" in
' ') dflt=none
 ;;
")
 lookpath="$prefixexp/man/man1 $prefixexp/man/l_man/man1"
 lookpath="$lookpath $prefixexp/man/p_man/man1"
 lookpath="$lookpath $prefixexp/man/u_man/man1"
 lookpath="$lookpath $prefixexp/man/man.1"
?X: Experience has shown people expect man1dir to be under prefix,
?X: so we now always put it there.  Users who want other behavior
?X: can answer interactively or use a command line option.
?X: Does user have System V-style man paths.
```

```
 case "$sysman" in
 */?_man*) dflt=`./loc . $prefixexp/l_man/man1 $lookpath` ;;
 *) dflt=`./loc . $prefixexp/man/man1 $lookpath` ;;
 esac
 set dflt
 eval $prefixup
 ;;
*)
  dflt="$man1dir"
 ;;
esac
echo " "
fn=dn+~
rp="Where do the main $spackage manual pages (source) go?"
. ./getfile
if $test "X$man1direxp" != "X$ansexp"; then
 installman1dir=''
fi
man1dir="$ans"
man1direxp="$ansexp"
case "$man1dir" in
'') man1dir=' '
 installman1dir='';;
esac
if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
manual pages reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installman1dir" in
 '') dflt=`echo $man1direxp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installman1dir";;
 esac
 fn=de~
 rp='Where will man pages be installed?'
 . ./getfile
 installman1dir="$ans"
else
 installman1dir="$man1direxp"
fi

: What suffix to use on installed man pages

case "$man1dir" in
' ')
```

```
 man1ext='0'
 ;;
*)
 rp="What suffix should be used for the main $spackage man pages?"
 case "$man1ext" in
 ") case "$man1dir" in
  *1)  dflt=1 ;;
  *1p)
 dflt=1p ;;
  *1pm) dflt=1pm ;;
  *l) dflt=l;;
  *n) dflt=n;;
  *o) dflt=o;;
  *p) dflt=p;;
  *C) dflt=C;;
  *L) dflt=L;;
  *L1) dflt=L1;;
  *) dflt=1;;
  esac
  ;;
 *) dflt="$man1ext";;
 esac
 . ./myread
 man1ext="$ans"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/man1dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_lround: Inlibc
?MAKE: -pick add $@ %<
?S:d_lround:
?S: This variable conditionally defines the HAS_LROUND symbol, which
?S: indicates to the C program that the lround() routine is available
?S: to return the integral value nearest to x.
?S:.
?C:HAS_LROUND:
?C: This symbol, if defined, indicates that the lround routine is
?C: available to return the nearest integral value.
?C:.
?H:#$d_lround HAS_LROUND  /**/
?H:.
```

```
?LINT:set d_lround
: see if lround exists
set lround d_lround
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_lround.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Oldconfig.U,v $
?RCS: Revision 3.0.1.10  1997/02/28  15:06:39  ram
?RCS: patch61: added support for src.U
?RCS: patch61: new OSNAME define
?RCS: patch61: can now sense new OSes
?RCS:
?RCS: Revision 3.0.1.9  1995/07/25  13:40:51  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.8  1995/05/12  12:04:18  ram
?RCS: patch54: config.sh reload logic now knows about new -K switch
?RCS: patch54: cleaned up and extended osvers for DEC OSF/1 (ADO)
?RCS: patch54: added MachTen detection
 (ADO)
?RCS:
?RCS: Revision 3.0.1.7  1995/02/15  14:13:41  ram
?RCS: patch51: adapted osvers computation for AIX (ADO)
?RCS:
?RCS: Revision 3.0.1.6  1995/01/30  14:27:15  ram
?RCS: patch49: unit Options.U now exports file optdef.sh, not a variable
?RCS: patch49: update code for myuname changed (WED)
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:15:36  ram
?RCS: patch45: added quotes around the INITPROG variable (ADO)
?RCS: patch45: allows variable overriding after config file loading
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  15:57:05  ram
?RCS: patch36: added ?F: line for metalint file checking
```

```
?RCS: patch36: merged with the version used for perl5's Configure (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/05/06  14:24:17  ram
?RCS: patch23: added support for osf1 hints
?RCS: patch23: new support for solaris and i386 systems (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:05:02  ram
?RCS: patch16: added post-processing on myuname for Xenix targets
?RCS: patch16: message proposing config.sh
 defaults made consistent
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  15:56:32  ram
?RCS: patch10: force use of config.sh when -d option is used (WAD)
?RCS: patch10: complain about non-existent hint files (WAD)
?RCS: patch10: added Options dependency for fastread variable
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:12  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit tries to remember what we did last time we ran Configure, mostly
?X: for the sake of setting defaults.
?X:
?MAKE:Oldconfig hint myuname osname osvers: Instruct Myread Checkcc \
 Mksymlinks Loc Options Tr src trnl ln uname sh awk sed test cat grep \
 rm lns tr n c contains targetarch
?MAKE: -pick wipe $@ %<
?S:myuname:
?S: The output of 'uname -a' if available, otherwise the hostname. On Xenix,
?S: pseudo variables assignments in the output are stripped, thank you. The
?S: whole thing is then lower-cased.
?S:.
?S:hint:
?S: Gives the type of hints used for previous answers. May be one of
?S: "default",
 "recommended" or "previous".
?S:.
?S:osname:
?S: This variable contains the operating system name (e.g. sunos,
?S: solaris, hpux, etc.).  It can be useful later on for setting
?S: defaults.  Any spaces are replaced with underscores.  It is set
?S: to a null string if we can't figure it out.
?S:.
?S:osvers:
?S: This variable contains the operating system version (e.g.
?S: 4.1.3, 5.2, etc.).  It is primarily used for helping select
?S: an appropriate hints file, but might be useful elsewhere for
?S: setting defaults.  It is set to '' if we can't figure it out.
```

```
?S: We try to be flexible about how much of the version number
?S: to keep, e.g. if 4.1.1, 4.1.2, and 4.1.3 are essentially the
?S: same for this package, hints files might just be os_4.0 or
?S: os_4.1, etc., not keeping separate files for each little release.
?S:.
?C:OSNAME:
?C: This symbol contains the name of the operating system, as determined
?C: by Configure.  You shouldn't rely on it too much; the specific
?C: feature
 tests from Configure are generally more reliable.
?C:.
?C:OSVERS:
?C: This symbol contains the version of the operating system, as determined
?C: by Configure.  You shouldn't rely on it too much; the specific
?C: feature tests from Configure are generally more reliable.
?C:.
?H:#define OSNAME "$osname"  /**/
?H:#define OSVERS "$osvers"  /**/
?H:.
?F:!config.sh
?T:tmp tmp_n tmp_c tmp_sh file
?T:xxxxfile xxxfile xxfile xfile hintfile newmyuname
?T:tans _ isesix INITPROG DJGPP has_uname
?D:osname="
?LINT:change n c sh
?LINT:extern hostarch
?LINT:change hostarch
: Determine the name of the machine
myuname=`$uname -a 2>/dev/null`
$test -z "$myuname" && myuname=`hostname 2>/dev/null`
?X: Special mention for Xenix, whose 'uname -a' gives us output like this:
?X:  sysname=XENIX
?X:  nodename=whatever
?X:  release=2.3.2 .. etc...
?X: Therefore, we strip all this variable assignment junk and remove all the
?X: new lines to keep the myuname variable sane... --RAM
myuname=`echo $myuname | $sed -e
 's/^[^=]*=//' -e 's/\///g' | \
 ./tr '[A-Z]' '[a-z]' | $tr $trnl ' '`
?X: Save the value we just computed to reset myuname after we get done here.
newmyuname="$myuname"
$test -f "$uname$_exe" && has_uname=y

: Guessing of the OS name -- half the following guesses are probably wrong...
: If you have better tests or hints, please send them to the metaconfig
: authors and to <MAINTLOC>
$test -f /irix && osname=irix
$test -f /xenix && osname=sco_xenix
```

```
$test -f /dynix && osname=dynix
$test -f /dnix && osname=dnix
$test -f /lynx.os && osname=lynxos
$test -f /unicos && osname=unicos && osvers=`$uname -r`
$test -f /unicosmk && osname=unicosmk && osvers=`$uname -r`
$test -f /unicosmk.ar && osname=unicosmk && osvers=`$uname -r`
$test -f /bin/mips && /bin/mips && osname=mips
$test -d /NextApps && set X `hostinfo | $grep 'NeXT Mach.*:' | \
 $sed -e 's/://' -e 's/\./_/'` && osname=next && osvers=$4
$test -d /usr/apollo/bin && osname=apollo
$test -f /etc/saf/_sactab && osname=svr4
$test -d /usr/include/minix
 && osname=minix
$test -f /system/gnu_library/bin/ar.pm && osname=vos
if $test -d /MachTen -o -d /MachTen_Folder; then
?X:  MachTen uname -a output looks like
?X:  xxx 4 0.0 Macintosh
?X:  MachTen /sbin/version output looks like
?X:  MachTen 4.0 Mon Aug 28 10:18:00 1995
?X:  MachTen 3.x had the 'version' command in /usr/etc/version.
 osname=machten
 if $test -x /sbin/version; then
  osvers=`/sbin/version | $awk '{print $2}' |
  $sed -e 's/[A-Za-z]$//'`
 elif $test -x /usr/etc/version; then
  osvers=`/usr/etc/version | $awk '{print $2}' |
  $sed -e 's/[A-Za-z]$//'`
 else
  osvers="$2.$3"
 fi
fi
$test -f /sys/posix.dll &&
 $test -f /usr/bin/what &&
 set X `/usr/bin/what /sys/posix.dll` &&
 $test "$3" = UWIN &&
 osname=uwin &&
 osvers="$5"
?X: If we have uname, we already computed a suitable uname -a output, correctly
?X: formatted for Xenix, and it lies in $myuname.
if $test "X$has_uname" != X; then
 set X $myuname
 shift
 case "$5" in
 fps*) osname=fps ;;
 mips*)
  case "$4"
 in
  umips) osname=umips ;;
```

```
  *) osname=mips ;;
  esac;;
 [23]100) osname=mips ;;
 next*) osname=next ;;
?X: Interactive Unix.
 i386*)
  tmp=`/bin/uname -X 2>/dev/null|awk '/3\.2v[45]/{ print $(NF) }'`
  if $test "$tmp" != "" -a "$3" = "3.2" -a -f '/etc/systemid'; then
   osname='sco'
   osvers=$tmp
  elif $test -f /etc/kconfig; then
   osname=isc
   if $test "$lns" = "$ln -s"; then
    osvers=4
   elif $contains _SYSV3 /usr/include/stdio.h > /dev/null 2>&1 ; then
    osvers=3
   elif $contains _POSIX_SOURCE /usr/include/stdio.h > /dev/null 2>&1 ; then
    osvers=2
   fi
  fi
  tmp=''
  ;;
?X: MS-DOS djgpp uname -a output looks like:
?X: ms-dos xxx 6 22 pc
?X:  $1 is the "dos flavor" (need not be "ms-dos").
?X:  $2 is the node name
?X:  $3 and $4 are version/subversion
?X:  $5 is always "pc", but that might not be unique to DJGPP.
?X: (e.g. Solaris_x86 has $5 = i86pc, which doesn't actually conflict,
?X: but it's close enought that I can easily imagine other vendors also
?X: using variants
 of pc* in $5.)
?X:  The "DJGPP" environment variable is always set when djgpp is active.
 pc*)
  if $test -n "$DJGPP"; then
   osname=dos
   osvers=djgpp
  fi
  ;;
 esac
 case "$1" in
 aix) osname=aix
?X: aix 4.1 uname -a output looks like
?X:  AIX  foo  1 4 000123456789
?X: where $4 is the major release number and $3 is the (minor) version.
?X: More detail on the version is available with the oslevel command.
?X: in 3.2.x, it output a string (see case statements below).  In 4.1,
?X: it puts out something like  4.1.1.0
```

```
 tmp=`( (oslevel) 2>/dev/null || echo "not found") 2>&1`
 case "$tmp" in
 'not found') osvers="$4"."$3" ;;
 '<3240'|'<>3240') osvers=3.2.0 ;;
 '=3240'|'>3240'|'<3250'|'<>3250') osvers=3.2.4 ;;
 '=3250'|'>3250') osvers=3.2.5 ;;
 *) osvers=$tmp;;
 esac
 ;;
bsd386) osname=bsd386
 osvers=`$uname -r`
 ;;
cygwin*) osname=cygwin
 osvers="$3"
 ;;
*dc.osx) osname=dcosx
 osvers="$3"
 ;;
dnix) osname=dnix
 osvers="$3"
 ;;
domainos) osname=apollo
 osvers="$3"
 ;;
dgux)
osname=dgux
 osvers="$3"
 ;;
?X:  uname -a returns
?X:  DYNIX/ptx xxx 4.0 V4.1.2 i386
dynixptx*) osname=dynixptx
 osvers=`echo "$4"|sed 's/^v//'`
 ;;
freebsd) osname=freebsd
 osvers="$3" ;;
genix) osname=genix ;;
?X: HP-UX uname -a gives something like
?X: HP-UX foobar B.10.20 A 9000/735 2016483812 two-user license
?X: Preserve the full 10.20 string instead of the previous plain '10'.
?X:  Thanks to Graham Barr.    --AD 6/30/1998
hp*) osname=hpux
 osvers=`echo "$3" | $sed 's,.*\.\([0-9]*\.[0-9]*\),\1,'`
 ;;
irix*) osname=irix
 case "$3" in
 4*) osvers=4 ;;
 5*) osvers=5 ;;
 *) osvers="$3" ;;
```

```
 esac
 ;;
linux) osname=linux
 case "$3" in
 *) osvers="$3" ;;
 esac
 ;;
MiNT) osname=mint
 ;;
netbsd*) osname=netbsd
 osvers="$3"
 ;;
news-os) osvers="$3"
 case "$3" in
 4*) osname=newsos4 ;;
 *) osname=newsos ;;
 esac
 ;;
next*) osname=next ;;
nonstop-ux) osname=nonstopux ;;
openbsd) osname=openbsd
   osvers="$3"
   ;;
POSIX-BC | posix-bc
) osname=posix-bc
 osvers="$3"
 ;;
powerux | power_ux | powermax_os | powermaxos | \
powerunix | power_unix) osname=powerux
 osvers="$3"
 ;;
qnx) osname=qnx
 osvers="$4"
 ;;
solaris) osname=solaris
 case "$3" in
 5*) osvers=`echo $3 | $sed 's/^5/2/g'` ;;
 *) osvers="$3" ;;
 esac
 ;;
sunos) osname=sunos
 case "$3" in
 5*) osname=solaris
  osvers=`echo $3 | $sed 's/^5/2/g'` ;;
 *) osvers="$3" ;;
 esac
 ;;
titanos) osname=titanos
```

```
 case "$3" in
 1*) osvers=1 ;;
 2*) osvers=2 ;;
 3*) osvers=3 ;;
 4*) osvers=4 ;;
 *) osvers="$3" ;;
 esac
 ;;
ultrix) osname=ultrix
 osvers="$3"
 ;;
osf1|mls+) case "$5" in
 alpha)
?X: DEC OSF/1 myuname -a output looks like:  osf1 xxxx t3.2 123.4 alpha
?X: where the version number can be something like [xvt]n.n
  osname=dec_osf
?X: sizer knows the minor minor version: the letter
  osvers=`sizer -v | awk '{print $3}' | \
   ./tr '[A-Z]' '[a-z]' | sed 's/^[xvt]//'`
  case "$osvers" in
  [1-9].[0-9]*) ;;
  *) osvers=`echo
"$3" | sed 's/^[xvt]//'` ;;
  esac
  ;;
 hp*) osname=hp_osf1 ;;
 mips) osname=mips_osf1 ;;
?X: hp and mips were unsupported Technology Releases -- ADO, 24/10/94
 esac
 ;;
unixware) osname=svr5
 osvers="$4"
 ;;
uts) osname=uts
 osvers="$3"
 ;;
vos) osvers="$3"
 ;;
$2) case "$osname" in
 *isc*) ;;
 *freebsd*) ;;
 svr*)
  : svr4.x or possibly later
  case "svr$3" in
  ${osname}*)
   osname=svr$3
   osvers=$4
   ;;
```

```
  esac
  case "$osname" in
  svr4.0)
   : Check for ESIX
   if $test -f /stand/boot ; then
    eval `$grep '^INITPROG=[a-z/0-9]*$' /stand/boot`
    if $test -n "$INITPROG" -a -f "$INITPROG"; then
     isesix=`strings -a $INITPROG | \
      $grep 'ESIX SYSTEM V/386 Release 4.0'`
     if $test -n "$isesix"; then
      osname=esix4
     fi
    fi
   fi
   ;;
  esac
  ;;
 *) if $test -f /etc/systemid; then
   osname=sco
   set `echo $3 | $sed 's/\./ /g'` $4
   if $test -f $src/hints/sco_$1_$2_$3.sh; then
    osvers=$1.$2.$3
   elif $test
-f $src/hints/sco_$1_$2.sh; then
    osvers=$1.$2
   elif $test -f $src/hints/sco_$1.sh; then
    osvers=$1
   fi
  else
   case "$osname" in
   ") : Still unknown.  Probably a generic Sys V.
    osname="sysv"
    osvers="$3"
    ;;
   esac
  fi
  ;;
 esac
 ;;
*) case "$osname" in
 ") : Still unknown.  Probably a generic BSD.
  osname="$1"
  osvers="$3"
  ;;
 esac
 ;;
esac
else
```

```
?X: Try to identify sony's NEWS-OS (BSD unix)
 if $test -f /vmunix -a -f $src/hints/news_os.sh; then
  (what /vmunix | UU/tr '[A-Z]' '[a-z]') > UU/kernel.what 2>&1
  if $contains news-os UU/kernel.what >/dev/null 2>&1; then
   osname=news_os
  fi
  $rm -f UU/kernel.what
?X: Maybe it's OS/2 or DOS or something similar
 elif $test -d c:/.; then
  set X $myuname
  osname=os2
  osvers="$5"
 fi
fi

: Try to determine whether config.sh was made on this system
case "$config_sh" in
")
?X: indentation wrong on purpose--RAM
dflt=n
case "$knowitall" in
")
 if test -f ../config.sh; then
  if $contains
 myuname= ../config.sh >/dev/null 2>&1; then
   eval "`$grep myuname= ../config.sh`"
  fi
  if test "X$myuname" = "X$newmyuname"; then
   dflt=y
  fi
 fi
 ;;
*) dflt=y;;
esac

: Get old answers from config file if it was generated on the same system
hint=default
if $test -f ../config.sh; then
 echo " "
 rp="I see a config.sh file.  Shall I use it to set the defaults?"
 . ./myread
 case "$ans" in
 n*|N*) echo "OK, I'll ignore it."
  mv ../config.sh ../config.sh.old
  myuname="$newmyuname"
  ;;
 *)  echo "Fetching default answers from your old config.sh file..." >&4
  tmp_n="$n"
```

```
  tmp_c="$c"
  tmp_sh="$sh"
  . ../config.sh
  cp ../config.sh .
  n="$tmp_n"
  c="$tmp_c"
  hint=previous
  ;;
 esac
fi
?X: remember, case indentation is wrong--RAM
;;
*)
 echo " "
 echo "Fetching default answers from $config_sh..." >&4
 tmp_n="$n"
 tmp_c="$c"
 tmp_sh="$sh"
 cd ..
?X: preserve symbolic links, if any
 cp $config_sh config.sh 2>/dev/null
 chmod +w config.sh
 . ./config.sh
 cd UU
 cp ../config.sh
 .
 n="$tmp_n"
 c="$tmp_c"
 hint=previous
 ;;
esac
?X: Older versions did not always set $sh.
case "$sh" in
") sh="$tmp_sh" ;;
esac
$test "$override" && . ./optdef.sh

: Restore computed paths
for file in $loclist $trylist; do
 eval $file="\$_$file"
done

. ./checkcc
?X: Cross-compiling support
case "$targetarch" in
") ;;
*)  hostarch=$osname
 osname=`echo $targetarch|sed 's,^[^-]*-,,'`
```

```
 osvers="
 ;;
esac

@if {test -d ../hints}
: Offer them some hints based on their OS
cd ..
?X: Since we are now at the root of the source tree, we must use $src
?X: to access the sources and not $rsrc. See src.U for details...
if $test ! -f config.sh; then
 $cat <<EOM

First time through, eh?  I have some defaults handy for some systems
that need some extra help getting the Configure answers right:

EOM
 (cd $src/hints; ls -C *.sh) | $sed 's/\.sh/   /g' >&4
 dflt="

 : Now look for a hint file osname_osvers, unless one has been
 : specified already.
 case "$hintfile" in
 "|' ')
  file=`echo "${osname}_${osvers}"
 | $sed -e 's%\.%_%g' -e 's%_$%%'`
  : Also try without trailing minor version numbers.
  xfile=`echo $file | $sed -e 's%_[^_]*$%%'`
  xxfile=`echo $xfile | $sed -e 's%_[^_]*$%%'`
  xxxfile=`echo $xxfile | $sed -e 's%_[^_]*$%%'`
  xxxxfile=`echo $xxxfile | $sed -e 's%_[^_]*$%%'`
  case "$file" in
  ") dflt=none ;;
  *)  case "$osvers" in
   ") dflt=$file
    ;;
   *)  if $test -f $src/hints/$file.sh ; then
     dflt=$file
    elif $test -f $src/hints/$xfile.sh ; then
     dflt=$xfile
    elif $test -f $src/hints/$xxfile.sh ; then
     dflt=$xxfile
    elif $test -f $src/hints/$xxxfile.sh ; then
     dflt=$xxxfile
    elif $test -f $src/hints/$xxxxfile.sh ; then
     dflt=$xxxxfile
    elif $test -f "$src/hints/${osname}.sh" ; then
     dflt="${osname}"
    else
```

```
    dflt=none
   fi
   ;;
  esac
  ;;
 esac
 if $test -f Policy.sh ; then
  case "$dflt" in
  *Policy*) ;;
  none) dflt="Policy" ;;
  *) dflt="Policy $dflt" ;;
  esac
 fi
 ;;
*)
 dflt=`echo
$hintfile | $sed 's/\.sh$//'`
 ;;
esac

if $test -f Policy.sh ; then
 $cat <<EOM

There's also a Policy hint file available, which should make the
site-specific (policy) questions easier to answer.
EOM

 fi

 $cat <<EOM

You may give one or more space-separated answers, or "none" if appropriate.
A well-behaved OS will have no hints, so answering "none" or just "Policy"
is a good thing.  DO NOT give a wrong version or a wrong OS.

EOM

 rp="Which of these apply, if any?"
 . UU/myread
 tans=$ans
 for file in $tans; do
  if $test X$file = XPolicy -a -f Policy.sh; then
   . Policy.sh
   $cat Policy.sh >> UU/config.sh
  elif $test -f $src/hints/$file.sh; then
   . $src/hints/$file.sh
   $cat $src/hints/$file.sh >> UU/config.sh
  elif $test X"$tans" = X -o X"$tans" = Xnone ; then
```

```
  : nothing
 else
  : Give one chance to correct a possible typo.
  echo "$file.sh does not exist"
  dflt=$file
  rp="hint to use instead?"
  . UU/myread
  for file in $ans; do
   if $test -f "$src/hints/$file.sh";
then
    . $src/hints/$file.sh
    $cat $src/hints/$file.sh >> UU/config.sh
   elif $test X$ans = X -o X$ans = Xnone ; then
    : nothing
   else
    echo "$file.sh does not exist -- ignored."
   fi
  done
 fi
done

hint=recommended
: Remember our hint file for later.
if $test -f "$src/hints/$file.sh" ; then
 hintfile="$file"
else
 hintfile=''
fi
fi
cd UU
?X: From here on, we must use $rsrc instead of $src

@end
: Process their -A options
. ./posthint.sh

@if osname || osvers
: Ask them to confirm the OS name
cat << EOM

Configure uses the operating system name and version to set some defaults.
The default value is probably right if the name rings a bell. Otherwise,
since spelling matters for me, either accept the default or answer "none"
to leave it blank.

EOM
@end
@if osname
```

```
case "$osname" in
 "|' ')
  case "$hintfile" in
  "|' '|none) dflt=none ;;
  *)  dflt=`echo $hintfile | $sed -e 's/\.sh$//' -e 's/_.*$//'` ;;
  esac
  ;;
 *) dflt="$osname" ;;
esac
rp="Operating
 system name?"
. ./myread
case "$ans" in
none)  osname=" ;;
*) osname=`echo "$ans" | $sed -e 's/[  ][ ]*/_/g' | ./tr '[A-Z]' '[a-z]'`;;
esac
@end
@if osvers
@if osname
echo " "
@end
case "$osvers" in
 "|' ')
  case "$hintfile" in
  "|' '|none) dflt=none ;;
  *) dflt=`echo $hintfile | $sed -e 's/\.sh$//' -e 's/^[^_]*//'`
   dflt=`echo $dflt | $sed -e 's/^_//' -e 's/_/./g'`
   case "$dflt" in
   "|' ') dflt=none ;;
   esac
   ;;
  esac
  ;;
 *) dflt="$osvers" ;;
esac
rp="Operating system version?"
. ./myread
case "$ans" in
none)  osvers=" ;;
*) osvers="$ans" ;;
esac

@end
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Oldconfig.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_syswait.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_syswait.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit looks wether <sys/wait.h> is available or not
?X:
?MAKE:i_syswait: Inhdr
?MAKE: -pick add $@ %<
?S:i_syswait:
?S: This variable conditionally defines I_SYS_WAIT, which indicates
?S: to the C program that it should include <sys/wait.h>.
?S:.
?C:I_SYS_WAIT (I_SYSWAIT):
?C: This symbol, if defined, indicates to the C program
 that it should
?C: include <sys/wait.h>.
?C:.
?H:#$i_syswait I_SYS_WAIT /**/
?H:.
?LINT:set i_syswait
: see if this is a syswait system
set sys/wait.h i_syswait
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_syswait.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sigsetjmp.U,v 3.0.1.1 1997/02/28 15:44:33 ram Exp $
?RCS:
?RCS: Copyright (c) 1996,1998 Andy Dougherty
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_sigsetjmp.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:44:33  ram
?RCS: patch61: created
?RCS:
?MAKE:d_sigsetjmp: Compile Setvar cat rm_try run i_stdlib
?MAKE: -pick add $@ %<
?S:d_sigsetjmp:
?S: This variable conditionally defines the HAS_SIGSETJMP symbol,
?S: which
 indicates that the sigsetjmp() routine is available to
?S: call setjmp() and optionally save the process's signal mask.
?S:.
?C:HAS_SIGSETJMP:
?C: This variable indicates to the C program that the sigsetjmp()
?C: routine is available to save the calling process's registers
?C: and stack environment for later use by siglongjmp(), and
?C: to optionally save the process's signal mask.  See
?C: Sigjmp_buf, Sigsetjmp, and Siglongjmp.
?C:.
?C:Sigjmp_buf:
?C: This is the buffer type to be used with Sigsetjmp and Siglongjmp.
?C:.
?C:Sigsetjmp:
?C: This macro is used in the same way as sigsetjmp(), but will invoke
?C: traditional setjmp() if sigsetjmp isn't available.
?C: See HAS_SIGSETJMP.
?C:.
?C:Siglongjmp:
?C: This macro is used in the same way as siglongjmp(), but will invoke
?C: traditional longjmp() if siglongjmp isn't available.
?C: See HAS_SIGSETJMP.
?C:.
?H:?%<:#$d_sigsetjmp HAS_SIGSETJMP /**/
?H:?%<:#ifdef HAS_SIGSETJMP
?H:?%<:#define Sigjmp_buf sigjmp_buf
?H:?%<:#define Sigsetjmp(buf,save_mask)
 sigsetjmp((buf),(save_mask))
?H:?%<:#define Siglongjmp(buf,retval) siglongjmp((buf),(retval))
?H:?%<:#else
?H:?%<:#define Sigjmp_buf jmp_buf
```

```
?H:?%<:#define Sigsetjmp(buf,save_mask) setjmp((buf))
?H:?%<:#define Siglongjmp(buf,retval) longjmp((buf),(retval))
?H:?%<:#endif
?H:.
?W:%<:Sigjmp_buf Sigsetjmp Siglongjmp
?F:!try
?LINT:set d_sigsetjmp
: see if sigsetjmp exists
?X: We can't check for these symbols with Inlibc because sigsetjmp
?X: is (sometimes? always?) a macro under GCC
echo " "
case "$d_sigsetjmp" in
")
 $cat >try.c <<EOP
#include <setjmp.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
sigjmp_buf env;
int set = 1;
int main()
{
 if (sigsetjmp(env,1))
  exit(set);
 set = 0;
 siglongjmp(env, 1);
 exit(1);
}
EOP
 set try
 if eval $compile; then
  if $run ./try >/dev/null 2>&1; then
   echo "POSIX sigsetjmp found." >&4
   val="$define"
  else
   $cat >&4 <<EOM
Uh-Oh! You have POSIX sigsetjmp and siglongjmp, but they do not work properly!!
I'll
 ignore them.
EOM
   val="$undef"
  fi
 else
  echo "sigsetjmp not found." >&4
  val="$undef"
 fi
 ;;
```

```
*) val="$d_sigsetjmp"
 case "$d_sigsetjmp" in
 $define) echo "POSIX sigsetjmp found." >&4;;
 $undef) echo "sigsetjmp not found." >&4;;
 esac
 ;;
esac
set d_sigsetjmp
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_sigsetjmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Options.U,v $
?RCS: Revision 3.0.1.7  1997/02/28  15:08:15  ram
?RCS: patch61: optdef.sh now starts with a "startsh"
?RCS: patch61: moved some code from Head.U
?RCS:
?RCS: Revision 3.0.1.6  1995/09/25  09:14:46  ram
?RCS: patch59: protected option parsing code against 'echo -*' option failure
?RCS:
?RCS: Revision 3.0.1.5  1995/05/12  12:04:52  ram
?RCS: patch54: added -K option for experts
?RCS:
?RCS: Revision 3.0.1.4  1995/01/30  14:27:52  ram
?RCS: patch49: this unit now exports file optdef.sh,
 not a variable
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:19:00  ram
?RCS: patch45: new -O option allowing -D and -U to override config.sh settings
?RCS: patch45: file optdef.sh is no longer removed after sourcing
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  15:58:06  ram
?RCS: patch36: ensure option definition file is removed before appending
?RCS: patch36: protect variable definitions with spaces in them
```

```
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:55:44  ram
?RCS: patch30: now uses new me symbol to tag error messages
?RCS: patch30: new -D and -U options to define/undef symbols (JHI)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Command line parsing. It is really important that the variables used here
?X: be not listed in the MAKE line, or they will be saved in config.sh and
?X: loading this file to fetch default answers would clobber the values set
?X: herein.
?X:
?MAKE:Options: startsh
?MAKE: -pick wipe $@ %<
?V:reuseval
 alldone error realsilent silent extractsh fastread \
 override knowitall: config_sh
?T:arg argn symbol config_arg0 config_args config_argc xxx yyy zzz uuu
?T:args_exp args_sep arg_exp
?F:!Configure
?F:./optdef.sh ./cmdline.opt ./posthint.sh ./cmdl.opt
: Save command line options in file UU/cmdline.opt for later use in
: generating config.sh.
?X: This temporary file will be read by Oldsym.U.  I used a temporary
?X: file to preserve all sorts of potential command line quotes and
?X: also because we don't know in advance how many variables we'll
?X: need, so I can't actually declare them on the MAKE line.
?X: The config_args variable won't be quite correct if Configure is
?X: fed something like    ./Configure -Dcc="gcc -B/usr/ccs/bin/"
?X: since the quotes are gone by the time we see them.  You'd have to
?X: reconstruct the command line from the config_arg? lines, but since
?X: I don't imagine anyone actually having to do that, I'm not going
?X: to worry too much.
cat > cmdline.opt
 <<EOSH
: Configure command line arguments.
config_arg0='$0'
config_args='$*'
config_argc=$#
EOSH
argn=1
args_exp=''
args_sep=''
for arg in "$@"; do
 cat >>cmdline.opt <<EOSH
config_arg$argn='$arg'
```

```
EOSH
?X: Extreme backslashitis: replace each ' by '''''
 cat <<EOC | sed -e "s/'/'''''''''''''/g" > cmdl.opt
$arg
EOC
 arg_exp=`cat cmdl.opt`
 args_exp="$args_exp$args_sep'$arg_exp'"
 argn=`expr $argn + 1`
 args_sep=' '
done
?X: args_exp is good for restarting self: eval "set X $args_exp"; shift; $0 "$@"
?X: used by hints/os2.sh in Perl, for instance
rm -f cmdl.opt

: produce awk script to parse command line options
cat >options.awk <<'EOF'
BEGIN {
 optstr = "A:dD:eEf:hKOrsSU:V"; # getopt-style specification

 len = length(optstr);
 for (i = 1; i <= len; i++) {
  c = substr(optstr, i, 1);
?X: some older awk's do not have the C ?: construct
  if (i < len) a = substr(optstr, i + 1, 1); else a = "";
  if (a == ":") {
   arg[c] = 1;
   i++;
  }
  opt[c] = 1;
 }
}
{
 expect = 0;
 str = $0;
 if (substr(str,
 1, 1) != "-") {
  printf("'%s'\n", str);
  next;
 }
 len = length($0);
 for (i = 2; i <= len; i++) {
  c = substr(str, i, 1);
  if (!opt[c]) {
   printf("-%s\n", substr(str, i));
   next;
  }
  printf("-%s\n", c);
  if (arg[c]) {
```

```
   if (i < len)
    printf("'%s'\n", substr(str, i + 1));
   else
    expect = 1;
   next;
  }
 }
}
END {
 if (expect)
  print "?";
}
EOF

: process the command line options
?X: Use "$@" to keep arguments with spaces in them from being split apart.
?X: For the same reason, awk will output quoted arguments and the final eval
?X: removes them and sets a proper $* array. An 'X' is prependend to each
?X: argument before being fed to echo to guard against 'echo -x', where -x
?X: would be understood as an echo option! It is removed before feeding awk.
set X `for arg in "$@"; do echo "X$arg"; done |
 sed -e s/X// | awk -f options.awk`
eval "set $*"
shift
rm -f options.awk

: set up default values
fastread=''
reuseval=false
config_sh=''
alldone=''
error=''
silent=''
extractsh=''
override=''
knowitall=''
rm
 -f optdef.sh posthint.sh
cat >optdef.sh <<EOS
$startsh
EOS

?X:
?X: Given that we now have the possibility to execute Configure remotely
?X: thanks to the new src.U support, we have to face the possibility
?X: of having to ask where the source lie, which means we need the Myread.U
?X: stuff and possibly other things that might echo something on the
?X: screen...
```

```
?X:
?X: That's not pretty, and might be confusing in 99% of the time. So...
?X: We introduce a new realsilent variable which is set when -s is given,
?X: and we force silent=true if -S is supplied. The Extractall.U unit
?X: will then undo the >&4 redirection based on the value of the
?X: realsilent variable... -- RAM, 18/93/96
?X:

: option parsing
while test $# -gt 0; do
 case "$1" in
 -d) shift; fastread=yes;;
 -e) shift; alldone=cont;;
 -f)
  shift
  cd ..
  if test -r "$1"; then
   config_sh="$1"
  else
   echo "$me: cannot read config file $1." >&2
   error=true
  fi
  cd UU
  shift;;
 -h)
 shift; error=true;;
 -r) shift; reuseval=true;;
 -s) shift; silent=true; realsilent=true;;
 -E) shift; alldone=exit;;
 -K) shift; knowitall=true;;
 -O) shift; override=true;;
 -S) shift; silent=true; extractsh=true;;
 -D)
  shift
  case "$1" in
  *=)
   echo "$me: use '-U symbol=', not '-D symbol='." >&2
   echo "$me: ignoring -D $1" >&2
   ;;
  *=*) echo "$1" | \
    sed -e "s/'/'\''\''/g" -e "s/=\(.*\)/='\1'/" >> optdef.sh;;
  *) echo "$1='define'" >> optdef.sh;;
  esac
  shift
  ;;
 -U)
  shift
  case "$1" in
```

```
 *=) echo "$1" >> optdef.sh;;
 *=*)
  echo "$me: use '-D symbol=val', not '-U symbol=val'." >&2
  echo "$me: ignoring -U $1" >&2
  ;;
 *) echo "$1='undef'" >> optdef.sh;;
 esac
 shift
 ;;
-A)
   shift
   xxx=''
   yyy="$1"
   zzz=''
   uuu=undef
   case "$yyy" in
        *=*) zzz=`echo "$yyy"|sed 's!=.*!!'`
             case "$zzz" in
             *:*) zzz='' ;;
             *)   xxx=append
                  zzz=' '`echo
"$yyy"|sed 's!^[^=]*=!!'`
                  yyy=`echo "$yyy"|sed 's!=.*!!'` ;;
             esac
             ;;
        esac
        case "$xxx" in
        '')  case "$yyy" in
             *:*) xxx=`echo "$yyy"|sed 's!:.*!!'`
                  yyy=`echo "$yyy"|sed 's!^[^:]*:!!'`
                  zzz=`echo "$yyy"|sed 's!^[^=]*=!!'`
                  yyy=`echo "$yyy"|sed 's!=.*!!'` ;;
             *)   xxx=`echo "$yyy"|sed 's!:.*!!'`
                  yyy=`echo "$yyy"|sed 's!^[^:]*:!!'` ;;
             esac
             ;;
        esac
   case "$xxx" in
   append)
 echo "$yyy=\"\${$yyy}$zzz\"" >> posthint.sh ;;
   clear)
 echo "$yyy=''"   >> posthint.sh ;;
   define)
       case "$zzz" in
 '') zzz=define ;;
 esac
 echo "$yyy='$zzz'"  >> posthint.sh ;;
   eval)
```

```
 echo "eval \"$yyy=$zzz\"" >> posthint.sh ;;
    prepend)
 echo "$yyy=\"$zzz\${$yyy}\"" >> posthint.sh ;;
    undef)
        case "$zzz" in
 ")
zzz="$uuu" ;;
 esac
 echo "$yyy=$zzz"  >> posthint.sh ;;
          *)  echo "$me: unknown -A command '$xxx', ignoring -A $1" >&2 ;;
    esac
    shift
    ;;
-V) echo "$me generated by metaconfig <VERSION> PL<PATCHLEVEL>." >&2
    exit 0;;
--) break;;
-*) echo "$me: unknown option $1" >&2; shift; error=true;;
*) break;;
esac
done

case "$error" in
true)
 cat >&2 <<EOM
Usage: $me [-dehrsEKOSV] [-f config.sh] [-D symbol] [-D symbol=value]
               [-U symbol] [-U symbol=] [-A command:symbol...]
 -d : use defaults for all answers.
 -e : go on without questioning past the production of config.sh.
 -f : specify an alternate default configuration file.
 -h : print this help message and exit (with an error status).
 -r : reuse C symbols value if possible (skips costly nm extraction).
 -s : silent mode, only echoes questions and essential information.
 -D : define symbol to have some value:
       -D symbol         symbol gets the value 'define'
       -D symbol=value
  symbol gets the value 'value'
 -E : stop at the end of questions, after having produced config.sh.
 -K : do not use unless you know what you are doing.
 -O : let -D and -U override definitions from loaded configuration file.
 -S : perform variable substitutions on all .SH files (can mix with -f)
 -U : undefine symbol:
       -U symbol    symbol gets the value 'undef'
       -U symbol=   symbol gets completely empty
 -A : manipulate symbol after the platform specific hints have been applied:
  -A symbol=value  append " "value to symbol
  -A append:symbol=value  append value to symbol
  -A define:symbol=value  define symbol to have value
       -A clear:symbol  define symbol to be "
```

```
  -A define:symbol  define symbol to be 'define'
  -A eval:symbol=value  define symbol to be eval of value
  -A prepend:symbol=value prepend value to symbol
  -A undef:symbol  define symbol to be 'undef'
  -A undef:symbol=  define symbol to be ''
 -V : print version number and exit (with
 a zero status).
EOM
 exit 1
 ;;
esac

?X:
?X: Unless they specified either -S or both -d and -e/E, make sure we're
?X: running interactively, i.e. attached to a terminal. Moved from Head.U to
?X: be able to handle batch configurations...
?X:
?X: We have to hardwire the Configure name and cannot use $me, since if they
?X: said 'sh <Configure', then $me is 'sh'...
?X:
: Sanity checks
case "$fastread$alldone" in
yescont|yesexit) ;;
*)
 case "$extractsh" in
 true) ;;
 *)
  if test ! -t 0; then
   echo "Say 'sh Configure', not 'sh <Configure'"
   exit 1
  fi
  ;;
 esac
 ;;
esac

?X: In silent mode, the standard output is closed. Questions are asked by
?X: outputing on file descriptor #4, which is the original stdout descriptor.
?X: This filters out all the "junk", since all the needed information is written
?X: on #4. Note that ksh will not let us redirect output if the file descriptor
?X: has not be defined yet, unlike sh, hence the following line...--RAM.
exec 4>&1
case "$silent" in
true)
 exec 1>/dev/null;;
esac

: run the defines and the undefines, if any, but leave the file out there...
```

```
touch optdef.sh
. ./optdef.sh
: create the posthint manipulation script and leave the file out there...
?X: this file will be perused by Oldconfig.U
touch posthint.sh
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Options.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: shm_for.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: shm_for.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:28:37  ram
?RCS: patch36: call ./Cppsym explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:shm_for shm_att shm_lim: Cppsym Myread ipc uname
?MAKE: -pick add $@ %<
?S:shm_for:
?S: This variable tells us the type of machine we're expecting the
?S: shared memory code to run on.  The value is available to C
 programs
?S: in the C_SHM_FOR manifest.
?S:.
?S:shm_att:
?S: This variable tells us where a shared memory segment should be
?S: attached.  Good values are HIGH, LOW, and ZERO.
?S:.
?S:shm_lim:
?S: This variable tells us if shared memory attached HIGH should
?S: have an upper limit.
?S:.
?X: ----------------------------------------------------------
?X: It's a potential lose to define anything beginning with SHM...
?X: At least we can think that S_ stands for "String version of ..." -- HMS
?X: ----------------------------------------------------------
```

```
?C:S_SHM_FOR ~ %<:
?C: This symbol identifies what we chose for the target system's
?C: default shared memory configuration parameters.
?C:.
?C:S_SHM_ATT ~ %<:
?C: This symbol holds the default "place" to attach shared memory.
?C: Values are "HIGH", "ZERO", and "LOW".
?C:.
?C:S_SHM_LIM ~ %<:
?C: This symbol holds the default upper bound address limit if shared
?C: memory is attached HIGH.  If zero, there is no upper limit.
?C:.
?H:?%<:#ifdef
 SERVE_SHM
?H:?%<:#define S_SHM_FOR "$shm_for"
?H:?%<:#define S_SHM_ATT "$shm_att"
?H:?%<:#define S_SHM_LIM "$shm_lim"
?H:?%<:#endif
?H:.
?W:%<:S_SHM_FOR S_SHM_ATT S_SHM_LIM
: see how to attach shared memory
echo " "
echo "Deciding how to attach shared memory..." >&4

case "$ipc" in
shm)
 shm_for='Default case'
 shm_att='HIGH'
 shm_lim='0x0'
 if ./Cppsym tower32 tower32_600; then
  echo "NCR Towers are usually normal..."
  : echo "Oh, an NCR Tower."
  : This works for the 600
  shm_for='NCR Tower 32'
  shm_att='LOW'
 else
  case "$uname" in
  */uname)
   case "`uname -m`" in
   ACS??68*)
    echo "Oh, an Altos 3068."
    shm_for='Altos 3068:'
    shm_lim='0x800000'
    ;;
    esac
    ;;
  *)
   echo "Looks normal to me..."
```

```
  ;;
 esac
fi

dflt="$shm_for"
rp='Description of shared memory configuration?'
. ./myread
shm_for="$ans"

dflt="$shm_att"
rp='Where should shared memory be attached?'
. ./myread
shm_att="$ans"

case "$shm_att" in
HIGH)
 dflt="$shm_lim"
 rp='What is
the upper address limit for shared memory?'
 . ./myread
 shm_lim="$ans"
 ;;
*)
 shm_lim="
 ;;
esac
;;

*)
 echo "but you aren't using shared memory so I won't bother." >&4
 shm_for='NOT CONFIGURED'
 shm_att='NONE'
 shm_lim='-1'
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/shm_for.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getspnam_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
```

```
?RCS:
?MAKE:d_getspnam_r getspnam_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_shadow extern_C
?MAKE: -pick add $@ %<
?S:d_getspnam_r:
?S: This variable conditionally defines the HAS_GETSPNAM_R symbol,
?S: which indicates to the C program that the getspnam_r()
?S: routine is available.
?S:.
?S:getspnam_r_proto:
?S: This variable encodes the prototype of getspnam_r.
?S: It is zero if d_getspnam_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getspnam_r
?S: is defined.
?S:.
?C:HAS_GETSPNAM_R:
?C: This symbol, if defined, indicates that the getspnam_r routine
?C: is available
 to getspnam re-entrantly.
?C:.
?C:GETSPNAM_R_PROTO:
?C: This symbol encodes the prototype of getspnam_r.
?C: It is zero if d_getspnam_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getspnam_r
?C: is defined.
?C:.
?H:#$d_getspnam_r HAS_GETSPNAM_R /**/
?H:#define GETSPNAM_R_PROTO $getspnam_r_proto /**/
?H:.
?T:try hdrs d_getspnam_r_proto
: see if getspnam_r exists
set getspnam_r d_getspnam_r
eval $inlibc
case "$d_getspnam_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_shadow shadow.h"
 case "$d_getspnam_r_proto:$usethreads" in
 ":define") d_getspnam_r_proto=define
  set d_getspnam_r_proto getspnam_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getspnam_r_proto" in
 define)
 case "$getspnam_r_proto" in
 "|0) try='int getspnam_r(const char*, struct spwd*, char*, size_t, struct spwd**);'
 ./protochk "$extern_C $try" $hdrs && getspnam_r_proto=I_CSBWR ;;
 esac
```

```
 case "$getspnam_r_proto" in
 "|0) try='struct spwd* getspnam_r(const char*, struct
 spwd*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getspnam_r_proto=S_CSBI ;;
 esac
 case "$getspnam_r_proto" in
 "|0) d_getspnam_r=undef
  getspnam_r_proto=0
  echo "Disabling getspnam_r, cannot determine prototype." >&4 ;;
 * ) case "$getspnam_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getspnam_r_proto="REENTRANT_PROTO_$getspnam_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getspnam_r has no prototype, not using it." >&4 ;;
  esac
  d_getspnam_r=undef
  getspnam_r_proto=0
  ;;
 esac
 ;;
*) getspnam_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getspnam_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_unordered: Inlibc
?MAKE: -pick add $@ %<
?S:d_unordered:
?S: This variable conditionally defines the HAS_UNORDERED symbol, which
?S: indicates to the C program that the unordered() routine is available.
?S:.
?C:HAS_UNORDERED:
?C: This symbol, if defined, indicates that the unordered routine is
```

```
?C: available to check whether two doubles are unordered
?C: (effectively: whether either of them is NaN)
?C:.
?H:#$d_unordered HAS_UNORDERED  /**/
?H:.
?LINT:set d_unordered
: see if unordered exists
set unordered d_unordered
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_unordered.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setruid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setruid.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setruid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setruid:
?S: This variable conditionally defines the HAS_SETRUID symbol, which
?S: indicates to the C program that the setruid() routine is available
?S: to change the real uid of the current program.
?S:.
?C:HAS_SETRUID (SETRUID):
?C: This symbol, if defined, indicates that the setruid
 routine is available
?C: to change the real uid of the current program.
?C:.
?H:#$d_setruid HAS_SETRUID  /**/
?H:.
?LINT:set d_setruid
: see if setruid exists
set setruid d_setruid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setruid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_llrint: Inlibc
?MAKE: -pick add $@ %<
?S:d_llrint:
?S: This variable conditionally defines the HAS_LLRINT symbol, which
?S: indicates to the C program that the llrint() routine is available
?S: to return the long long value closest to a double (according
?S: to the current rounding mode).
?S:.
?C:HAS_LLRINT:
?C: This symbol, if defined, indicates that the llrint routine is
?C: available to return the long long value closest to a double
?C: (according to the current rounding mode).
?C:.
?H:#$d_llrint HAS_LLRINT  /**/
?H:.
?LINT:set d_llrint
: see if llrint exists
set llrint d_llrint
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_llrint.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fma: Inlibc
?MAKE: -pick add $@ %<
?S:d_fma:
?S: This variable conditionally defines the HAS_FMA symbol, which
?S: indicates to the C program that the fma() routine is available.
?S:.
?C:HAS_FMA:
?C: This symbol, if defined, indicates that the fma routine is
?C: available to do the multiply-add function.
?C:.
?H:#$d_fma HAS_FMA  /**/
?H:.
```

```
?LINT:set d_fma
: see if fma exists
set fma d_fma
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fma.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: cf_name.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: cf_name.U,v $
?RCS: Revision 3.0.1.2  1994/05/06  14:29:36  ram
?RCS: patch23: fixed user name computation from /etc/passwd in bsd systems
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:05:11  ram
?RCS: patch16: created
?RCS:
?RCS:
?MAKE:+cf_name: cf_by passcat Filexp nametype cat test
?MAKE: -pick add $@ %<
?S:cf_name:
?S: Full name of the person who ran the Configure script and
 answered the
?S: questions. This can be used by units that require the user's full name.
?S: This variable is for internal use only.
?S:.
?T:xxx fn NAME
: figure out their full name
case "$NAME" in
") case "$nametype" in
 other)
  fn=`./filexp ~/.fullname`
  xxx=usg
  $test -f $fn && xxx=other
  ;;
 *)
```

```
  xxx="$nametype"
  ;;
 esac

 case "$xxx" in
 bsd)
  cf_name=`$passcat | grep "^$cf_by:" | \
   sed -e 's/^[^:]*:[^:]*:[^:]*:[^:]*:\([^:]*\):.*/\1/' \
   -e 's/,.*//'`
  ;;
   usg)
  cf_name=`$passcat | grep "^$cf_by:" | \
   sed -e 's/^[^:]*:[^:]*:[^:]*:[^:]*:\([^:]*\):.*/\1/' \
   -e 's/[^-]*-\(.*\)(.*)/\1/'`
  ;;
 *)
  cf_name=`$cat $fn`
  ;;
 esac
 ;;
*)
 cf_name="$NAME"
 ;;
esac
?X:
?X: In the original unit, Graham asked for the user name, in case the above
?X: code was unable to figure it out correctly. Since now cf_name has been
?X: made an internal variable only (i.e. it is not saved in config.sh), letting
?X: the user override the computed default each time would be a pain.
?X:
 Therefore, I have decided to trust the above code to get it right, and for
?X: those rare cases where it will fail, too bad :-) --RAM.
?X:
echo " "
echo "Pleased to meet you, $cf_name."
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/cf_name.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_erf: Inlibc
?MAKE: -pick add $@ %<
?S:d_erf:
?S: This variable conditionally defines the HAS_ERF symbol, which
```

```
?S: indicates to the C program that the erf() routine is available.
?S:.
?C:HAS_ERF:
?C: This symbol, if defined, indicates that the erf routine is
?C: available to do the error function.
?C:.
?H:#$d_erf HAS_ERF  /**/
?H:.
?LINT:set d_erf
: see if erf exists
set erf d_erf
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_erf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_gdbm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_gdbm.U,v $
?RCS: Revision 3.0.1.1  1995/05/12  12:16:39  ram
?RCS: patch54: made more robust by checking both header and lib (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_gdbm: Inhdr Inlibc Setvar
?MAKE: -pick add $@ %<
?S:i_gdbm (d_gdbm):
?S: This variable conditionally defines the I_GDBM symbol, which
?S: indicates to the C program that <gdbm.h> exists and should
?S: be included.
?S:.
?C:I_GDBM
 (HAS_GDBM):
?C: This symbol, if defined, indicates that <gdbm.h> exists and should
?C: be included.
?C:.
?H:#$i_gdbm I_GDBM /**/
```

```
?H:.
?T:t_gdbm d_gdbm_open
?LINT:set i_gdbm
: see if gdbm.h is available
?X: t_gdbm is a tentative check. We might just have the .h, not the lib -- ADO
set gdbm.h t_gdbm
eval $inhdr
case "$t_gdbm" in
$define)
 : see if gdbm_open exists
 set gdbm_open d_gdbm_open
 eval $inlibc
 case "$d_gdbm_open" in
 $undef)
  t_gdbm="$undef"
  echo "We won't be including <gdbm.h>"
  ;;
 esac
 ;;
esac
val="$t_gdbm"
set i_gdbm
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_gdbm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_hypot: Inlibc
?MAKE: -pick add $@ %<
?S:d_hypot:
?S: This variable conditionally defines HAS_HYPOT if hypot is available
?S: for numerically stable hypotenuse function.
?S:.
?C:HAS_HYPOT:
?C: This symbol, if defined, indicates that the hypot routine is
?C: available to do the hypotenuse function.
?C:.
?H:#$d_hypot HAS_HYPOT  /**/
?H:.
?LINT:set d_hypot
: see if hypot exists
set hypot d_hypot
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_hypot.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strcoll.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_strcoll.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:12:01  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_strcoll: Inlibc
?MAKE: -pick add $@ %<
?S:d_strcoll:
?S: This variable conditionally defines HAS_STRCOLL if strcoll() is
?S: available to compare strings using collating information.
?S:.
?C:HAS_STRCOLL:
?C: This symbol, if defined, indicates that the strcoll routine
 is
?C: available to compare strings using collating information.
?C:.
?H:#$d_strcoll HAS_STRCOLL /**/
?H:.
?LINT:set d_strcoll
: see if strcoll exists
set strcoll d_strcoll
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strcoll.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getpagsz.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:13:10  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getpagsz pagesize: Oldconfig Myread Inlibc cat contains +cc +ccflags \
 libs rm Findhdr
?MAKE: -pick add $@ %<
?S:d_getpagsz:
?S: This variable conditionally defines HAS_GETPAGESIZE if getpagesize()
?S: is available to get the system page size.
?S:.
?S:pagesize (pagsize):
?S: This
 variable holds the size in bytes of a system page.
?S:.
?C:HAS_GETPAGESIZE (GETPAGESIZE):
?C: This symbol, if defined, indicates that the getpagesize system call
?C: is available to get system page size, which is the granularity of
?C: many memory management calls.
?C:.
?X: Don't name it PAGESIZE, this is sometimes used by <sys/param.h>
?C:PAGESIZE_VALUE (PAGSIZE):
?C: This symbol holds the size in bytes of a system page (obtained via
?C: the getpagesize() system call at configuration time or asked to the
?C: user if the system call is not available).
?C:.
?H:#$d_getpagsz HAS_GETPAGESIZE  /**/
?H:#define PAGESIZE_VALUE $pagesize /* System page size, in bytes */
?H:.
?F:!page
?T:guess
?LINT:set d_getpagsz
: see if getpagesize exists
set getpagesize d_getpagsz
eval $inlibc

@if pagesize || PAGESIZE_VALUE
: determine the system page size
```

```
echo " "
guess=' (OK to guess)'
case "$pagesize" in
")
 $cat >page.c <<EOP
extern int getpagesize();
int main()
{
 printf("%d\n", getpagesize());
}
EOP
 echo
 "Computing the granularity of memory management calls..." >&4
 dflt='4096'
 case "$d_getpagsz" in
 "$define")
  if $cc $ccflags -o page page.c $libs >/dev/null 2>&1; then
   dflt=`./page`
   guess=''
  else
   echo "(I can't seem to compile the test program--guessing)"
  fi
  ;;
 *)
  if $cc $ccflags -o page page.c $libs -lPW >/dev/null 2>&1; then
   dflt=`./page`
   guess=''
   echo "(For your eyes only: I used the getpagesize() from -lPW.)"
  else
   if $contains PAGESIZE `./findhdr sys/param.h` >/dev/null 2>&1; then
    $cat >page.c <<EOP
#include <sys/param.h>
int main()
{
 printf("%d\n", PAGESIZE);
}
EOP
    if $cc $ccflags -o page page.c $libs >/dev/null 2>&1; then
     dflt=`./page`
     guess=''
     echo "(Using value of PAGESIZE found in <sys/param.h>.)"
    fi
   fi
  fi
  ;;
 esac
 ;;
*) dflt="$pagesize"; guess='';;
```

```
esac
rp="What is the system page size, in bytes$guess?"
. ./myread
pagesize=$ans
$rm -f page.c page

@end
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getpagsz.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: selecttype.U,v 3.0.1.3 1997/02/28 16:20:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: selecttype.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:20:09  ram
?RCS: patch61: always include <sys/select.h> when available for test
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  14:14:06  ram
?RCS: patch56: removed harmful spaces in assignment
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:06:31  ram
?RCS: patch30: created by ADO
?RCS:
?MAKE:selecttype: Protochk Oldconfig Myread cat
 \
 d_fd_set d_select d_socket i_systime i_sysselct extern_C
?MAKE: -pick add $@ %<
?S:selecttype:
?S: This variable holds the type used for the 2nd, 3rd, and 4th
?S: arguments to select.  Usually, this is 'fd_set *', if HAS_FD_SET
?S: is defined, and 'int *' otherwise.  This is only useful if you
?S: have select(), naturally.
?S:.
?C:Select_fd_set_t:
?C: This symbol holds the type used for the 2nd, 3rd, and 4th
?C: arguments to select.  Usually, this is 'fd_set *', if HAS_FD_SET
```

```
?C: is defined, and 'int *' otherwise.  This is only useful if you
?C: have select(), of course.
?C:.
?H:#define Select_fd_set_t $selecttype /**/
?H:.
?T:xxx nfd tmo try hdrs val
: check for type of arguments to select.
case "$selecttype" in
") case "$d_select" in
 $define)
  echo " "
  $cat <<EOM
Checking to see what type of arguments are accepted by select().
EOM
  hdrs="$define sys/types.h
   $i_systime sys/time.h
   $i_sysselct sys/select.h
   $d_socket sys/socket.h"
  : The first arg can be int, unsigned,
 or size_t
  : The last arg may or may not be 'const'
  val="
  : void pointer has been seen but using that
  : breaks the selectminbits test
  for xxx in 'fd_set *' 'int *'; do
   for nfd in 'int' 'size_t' 'unsigned long' 'unsigned' ; do
    for tmo in 'struct timeval *' 'const struct timeval *'; do
     case "$val" in
     ") try="$extern_C select _(($nfd, $xxx, $xxx, $xxx, $tmo));"
      if ./protochk "$try" $hdrs; then
       echo "Your system accepts $xxx."
       val="$xxx"
      fi
      ;;
     esac
    done
   done
  done
?X: In the unlikely event that none of those worked, prompt the user.
  case "$val" in
  ") rp='What is the type for the 2nd, 3rd, and 4th arguments to select?'
   case "$d_fd_set" in
    $define) dflt="fd_set *" ;;
    *)  dflt="int *" ;;
   esac
   . ./myread
   val=$ans
   ;;
```

```
  esac
  selecttype="$val"
  ;;
 *) : no select, so pick a harmless default
  selecttype='int *'
  ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/selecttype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_times.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:07:50  ram
?RCS: patch56: typo fix, sytem -> system
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:14:00  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: What is the type returned by times() ?
?X:
?X: Force inclusion of <sys/types.h>
?X:INC: i_systypes
?MAKE:d_times clocktype: Csym Myread Typedef i_systimes
?MAKE: -pick
 add $@ %<
?S:d_times:
?S: This variable conditionally defines the HAS_TIMES symbol, which indicates
?S: that the times() routine exists.  The times() routine is normally
?S: provided on UNIX systems. You may have to include <sys/times.h>.
?S:.
```

```
?S:clocktype:
?S: This variable holds the type returned by times(). It can be long,
?S: or clock_t on BSD sites (in which case <sys/types.h> should be
?S: included).
?S:.
?C:HAS_TIMES (TIMES):
?C: This symbol, if defined, indicates that the times() routine exists.
?C: Note that this became obsolete on some systems (SUNOS), which now
?C: use getrusage(). It may be necessary to include <sys/times.h>.
?C:.
?C:Clock_t (CLOCKTYPE):
?C: This symbol holds the type returned by times(). It can be long,
?C: or clock_t on BSD sites (in which case <sys/types.h> should be
?C: included).
?C:.
?H:#$d_times HAS_TIMES  /**/
?H:#define Clock_t $clocktype /* Clock time */
?H:.
?T:val inc
: see if times exists
echo " "
if set times val -f d_times; eval $csym;
 $val; then
 echo 'times() found.' >&4
 d_times="$define"
 inc=''
 case "$i_systimes" in
 "$define") inc='sys/times.h';;
 esac
 set clock_t clocktype long stdio.h sys/types.h $inc
 eval $typedef
 dflt="$clocktype"
 echo " "
 rp="What type is returned by times() on this system?"
 . ./myread
 clocktype="$ans"
else
 echo 'times() NOT found, hope that will do.' >&4
 d_times="$undef"
?X: The following is needed for typedef (won't like an empty variable)
 clocktype='int'
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_times.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2005, H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_malloc_size d_malloc_good_size d_malloc_usable_size: Inlibc
?MAKE: -pick add $@ %<
?S:d_malloc_size:
?S: This symbol, if defined, indicates that the malloc_size
?S: routine is available for use.
?S:.
?S:d_malloc_good_size:
?S: This symbol, if defined, indicates that the malloc_good_size
?S: routine is available for use.
?S:.
?S:d_malloc_usable_size:
?S: This symbol, if defined, indicates that the malloc_usable_size
?S: routine is available for use.
?S:.
?C:HAS_MALLOC_SIZE:
?C: This symbol, if defined, indicates that
 the malloc_size
?C: routine is available for use.
?C:.
?H:#$d_malloc_size HAS_MALLOC_SIZE  /**/
?H:.
?C:HAS_MALLOC_GOOD_SIZE:
?C: This symbol, if defined, indicates that the malloc_good_size
?C: routine is available for use.
?C:.
?H:#$d_malloc_good_size HAS_MALLOC_GOOD_SIZE /**/
?H:.
?C:HAS_MALLOC_USABLE_SIZE:
?C: This symbol, if defined, indicates that the malloc_usable_size
?C: routine is available for use.
?C:.
?H:#$d_malloc_usable_size HAS_MALLOC_USABLE_SIZE  /**/
?H:.
?LINT:set d_malloc_size
?LINT:set d_malloc_good_size
?LINT:set d_malloc_usable_size
: see if malloc_size exists
set malloc_size d_malloc_size
```

```
eval $inlibc

: see if malloc_size_good exists
set malloc_good_size d_malloc_good_size
eval $inlibc

: see if malloc_usable_size exists
set malloc_usable_size d_malloc_usable_size
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_malloc_size.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Whoa.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:21:21  ram
?RCS: patch61: whoa script now starts with leading "startsh"
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:02:01  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to warn the user in case a change into a variable is noticed.
?X:
?X: To use this
 unit, $was must hold the old value that has changed. Upon
?X: exit, the two variables $td and $tu are set to the correct value for
?X: respectively defining or undefining a variable. For instance, if $vas was
?X: $undef, but now $var is $define, after calling . whoa, you should use
?X: eval "$var=\$tu" to finally set $var to the correct value. See unit Inlibc.
?X:
?MAKE:Whoa: Myread startsh hint
?MAKE: -pick add $@ %<
```

```
?F:./whoa
?T:var was
?LINT:change td tu
: set up the script used to warn in case of inconsistency
cat <<EOS >whoa
$startsh
EOS
cat <<'EOSC' >>whoa
dflt=y
echo " "
echo "*** WHOA THERE!!! ***" >&4
echo "    The $hint value for \$$var on this machine was \"$was\"!" >&4
rp="    Keep the $hint value?"
. ./myread
case "$ans" in
y) td=$was; tu=$was;;
esac
EOSC
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Whoa.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: lintlib.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: lintlib.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lintlib lintlibexp: Getfile Loc Oldconfig
?MAKE: -pick add $@ %<
?S:lintlib:
?S: This variable holds the name of the directory in which the user wants
?S: to put public lint-library files for the package in question.  It is
?S: most often a local directory such as /usr/local/lib/lint. Programs using
?S: this variable must be prepared to
 deal with ~name expansion.
?S:.
?S:lintlibexp:
```

```
?S: This variable is the same as the lintlib variable, but is filename
?S: expanded at configuration time, for convenient use in your makefiles.
?S:.
: determine where public lint libraries go
case "$lintlib" in
") dflt=`./loc . "." /usr/local/lib/lint /usr/lib/lint /usr/lib`;;
*) dflt="$lintlib" ;;
esac
echo " "
fn=d~
rp='Where do you want to put the public lint libraries?'
. ./getfile
lintlib="$ans"
lintlibexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/lintlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fpclassl: Inlibc
?MAKE: -pick add $@ %<
?S:d_fpclassl:
?S: This variable conditionally defines the HAS_FPCLASSL symbol, which
?S: indicates to the C program that the fpclassl() routine is available.
?S:.
?C:HAS_FPCLASSL:
?C: This symbol, if defined, indicates that the fpclassl routine is
?C: available to classify long doubles.  Available for example in IRIX.
?C: The returned values are defined in <ieeefp.h> and are:
?C:
?C: FP_SNAN  signaling NaN
?C: FP_QNAN  quiet NaN
?C: FP_NINF  negative infinity
?C: FP_PINF  positive infinity
?C: FP_NDENORM negative denormalized non-zero
?C: FP_PDENORM positive denormalized non-zero
?C: FP_NZERO negative zero
?C: FP_PZERO positive zero
?C: FP_NNORM negative
```

```
 normalized non-zero
?C: FP_PNORM positive normalized non-zero
?C:.
?H:#$d_fpclassl HAS_FPCLASSL  /**/
?H:.
?LINT:set d_fpclassl
: see if fpclassl exists
set fpclassl d_fpclassl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fpclassl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_regcmp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_regcmp.U,v $
?RCS: Revision 3.0.1.1  1995/01/30  14:34:45  ram
?RCS: patch49: now looks for POSIX regcomp() routine
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:53  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_regcmp d_re_comp d_regcomp: Csym cat
?MAKE: -pick add $@ %<
?S:d_regcomp:
?S: This variable conditionally defines the HAS_REGCOMP symbol, which
?S: indicates to the C program that the regcomp() routine is available
?S: for regular
 pattern matching (usually on POSIX.2 conforming systems).
?S:.
?S:d_regcmp:
?S: This variable conditionally defines the HAS_REGCMP symbol, which
?S: indicates to the C program that the regcmp() routine is available
?S: for regular pattern matching (usually on System V).
?S:.
?S:d_re_comp:
?S: This variable conditionally defines the HAS_RECOMP symbol, which
?S: indicates to the C program that the re_comp() routine is available
```

```
?S: for regular pattern matching (usually on BSD). If so, it is likely that
?S: re_exec() exists.
?S:.
?C:HAS_REGCOMP (REGCOMP):
?C: This symbol, if defined, indicates that the regcomp() routine is
?C: available to do some regular pattern matching (usually on POSIX.2
?C: conforming systems).
?C:.
?C:HAS_REGCMP (REGCMP):
?C: This symbol, if defined, indicates that the regcmp() routine is
?C: available to do some regular pattern matching (usually on System V).
?C:.
?C:HAS_RECOMP (RECOMP):
?C: This symbol, if defined, indicates that the re_comp() routine is
?C: available
 to do some regular pattern matching (usually on BSD). If so,
?C: it is likely that re_exec() be available.
?C:.
?H:#$d_regcomp HAS_REGCOMP  /* POSIX.2 */
?H:#$d_regcmp HAS_REGCMP  /* sysV */
?H:#$d_re_comp HAS_RECOMP  /* BSD */
?H:.
?T:val
: see if regcomp, regcmp, or re_comp exist, for regular pattern matching
echo " "
if set regcomp val -f d_regcomp; eval $csym; $val; then
 echo 'regcomp() found.' >&4
 d_regcomp="$define"
 d_regcmp="$undef"
 d_re_comp="$undef"
elif set regcmp val -f d_regcmp; eval $csym; $val; then
 echo 'regcmp() found.' >&4
 d_regcmp="$define"
 d_regcomp="$undef"
 d_re_comp="$undef"
elif set re_comp val -f d_re_comp; eval $csym; $val; then
 echo 're_comp() found, assuming re_exec() also exists.' >&4
 d_re_comp="$define"
 d_regcomp="$undef"
 d_regcmp="$undef"
else
 $cat >&4 <<EOM
No regcomp(), regcmp() nor re_comp() found !! No regular pattern matching.
EOM
 d_regcmp="$undef"
 d_re_comp="$undef"
 d_regcomp="$undef"
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_regcmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pwrite.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_pwrite.U,v $
?RCS:
?MAKE:d_pwrite: Inlibc
?MAKE: -pick add $@ %<
?S:d_pwrite:
?S: This variable conditionally defines the HAS_PWRITE symbol, which
?S: indicates to the C program that the pwrite() routine is available.
?S:.
?C:HAS_PWRITE :
?C: This symbol, if defined, indicates that the pwrite routine is
?C: available to perform writes on a file descriptor at a given offset.
?C:.
?H:#$d_pwrite HAS_PWRITE  /**/
?H:.
?LINT:set d_pwrite
: see if pwrite
 exists
set pwrite d_pwrite
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_pwrite.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setgrent.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
```

```
?RCS: $Log: d_setgrent.U,v $
?RCS:
?MAKE:d_setgrent: Inlibc
?MAKE: -pick add $@ %<
?S:d_setgrent:
?S: This variable conditionally defines the HAS_SETGRENT symbol, which
?S: indicates to the C program that the setgrent() routine is available
?S: for initializing sequential access to the group database.
?S:.
?C:HAS_SETGRENT:
?C: This symbol, if defined, indicates that the setgrent routine is
?C: available for initializing sequential access of the group database.
?C:.
?H:#$d_setgrent HAS_SETGRENT  /**/
?H:.
?LINT:set d_setgrent
: see if setgrent exists
set setgrent d_setgrent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_setgrent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ulimit.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_ulimit.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_ulimit: Inlibc
?MAKE: -pick add $@ %<
?S:d_ulimit:
?S: This variable conditionally defines HAS_ULIMIT if ulimit() is
?S: available to get the user limits.
?S:.
?C:HAS_ULIMIT (ULIMIT):
?C: This symbol, if defined, indicates that the ulimit system call is
?C: available to get the user limits.
```

```
?C:.
?H:#$d_ulimit HAS_ULIMIT  /**/
?H:.
?LINT:set
 d_ulimit
: see if ulimit exists
set ulimit d_ulimit
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_ulimit.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:perladmin: cf_email Oldconfig Myread cat
?MAKE: -pick add $@ %<
?Y:TOP
?S:perladmin:
?S: Electronic mail address of the perl5 administrator.
?S:.
: Ask e-mail of administrator
$cat <<EOM

If you or somebody else will be maintaining perl at your site, please
fill in the correct e-mail address here so that they may be contacted
if necessary. You may enter "none" for no administrator.

EOM
case "$perladmin" in
") dflt="$cf_email";;
*) dflt="$perladmin";;
esac
rp='Perl administrator e-mail address'
. ./myread
perladmin="$ans"
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/perladmin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_execinfo.U 34 2010-11-27 11:55:39Z rmanfredi $
?RCS:
```

```
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?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:i_execinfo: Inhdr
?MAKE: -pick add $@ %<
?S:i_execinfo:
?S: This variable conditionally defines the I_EXECINFO symbol, and indicates
?S: whether a C program may include <execinfo.h>, for backtrace() support.
?S:.
?C:I_EXECINFO:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <execinfo.h> for backtrace() support.
?C:.
?H:#$i_execinfo I_EXECINFO  /**/
?H:.
?LINT:set i_execinfo
: see if this is an execinfo.h system
set execinfo.h i_execinfo
eval
 $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_execinfo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_nan: Inlibc
?MAKE: -pick add $@ %<
?S:d_nan:
?S: This variable conditionally defines HAS_NAN if nan() is
?S: available to generate NaN.
?S:.
?C:HAS_NAN:
?C: This symbol, if defined, indicates that the nan routine is
?C: available to generate NaN.
?C:.
?H:#$d_nan HAS_NAN  /**/
?H:.
?LINT:set d_nan
: see if nan exists
```

```
set nan d_nan
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_nan.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_havetlib.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS:
?RCS: $Log: d_havetlib.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:36:31  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: likewise for .o replaced by $_o
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:44:06  ram
?RCS: patch23: added AIX support to accept shared lib stub as termlib (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_havetlib termlib: cat contains Myread Loc
 Filexp Oldconfig libpth \
 test uname _a _o
?MAKE: -pick add $@ %<
?S:d_havetlib:
?S: This variable conditionally defines the HAS_TERMLIB symbol, which
?S: indicates to the C program that termlib-style routines are available.
?S:.
?S:termlib:
?S: This variable contains the argument to pass to the loader to get
?S: termlib-style routines.  It is up to the Makefile.SH to make sure
?S: the value gets to the right command.  Note that on many systems the
?S: termlib routines are emulated by the curses or terminfo library.
?S:.
?C:HAS_TERMLIB (HAVETERMLIB):
?C: This symbol, when defined, indicates that termlib-style routines
?C: are available.  There is nothing to include.
?C:.
?H:#$d_havetlib HAS_TERMLIB /**/
```

```
?H:.
?T:xxx
: where do we get termlib routines from
echo " "
xxx=`./loc libcurses$_a x $libpth`
case "$xxx" in
/*)
 ar t $xxx >grimble
 if $contains tputs$_o grimble >/dev/null 2>&1; then
  termlib='-lcurses'
  d_havetlib="$define"
  echo "Terminfo library found." >&4
 elif $test "x`$uname
 2>/dev/null`" = xAIX; then
  # Ok, do the AIX shr.o fun thing
  /usr/ccs/bin/nm -en $xxx 2>/dev/null >grimble
  if $contains '^tputs .*|extern|' grimble >/dev/null 2>&1; then
   termlib='-lcurses'
   d_havetlib="$define"
   echo "AIX Terminfo library found." >&4
  else
   xxx=x
  fi
 else
  xxx=x
 fi
 rm -f grimble
 ;;
esac
case "$xxx" in
x)
 xxx=`./loc libtermlib$_a x $libpth`
 case "$xxx" in
 /usr/lib*|/lib*)
  termlib='-ltermlib'
  d_havetlib="$define"
  echo "Termlib library found." >&4
  ;;
 /*)
  termlib="$xxx"
  d_havetlib="$define"
  echo "Termlib library found." >&4
  ;;
 *)
  xxx=`./loc libtermcap$_a x $libpth`
  case "$xxx" in
  /usr/lib*|/lib*)
   termlib='-ltermcap'
```

```
  d_havetlib="$define"
  echo "Termcap library found." >&4
  ;;
 /*)
  termlib="$xxx"
  d_havetlib="$define"
  echo "Termcap library found." >&4
  ;;
 *)
  case "$termlib" in
  ")
   dflt=y
rp="Your system appears to NOT have termlib-style routines. Is this true?"
   . ./myread
   case "$ans"
 in
   n*|f*) d_havetlib="$define"
    $cat <<'EOM'
Then where are the termlib-style routines kept? Specify either -llibname
or a full pathname (~name ok).

EOM
    dflt="
    rp='Specify termlib path:'
    . ./myread
    termlib=`./filexp $ans`
    ;;
   *)
    d_havetlib="$undef"
    termlib="
    echo "You will have to play around with term.c then." >&4
    ;;
   esac
  echo " ";;
  *)  echo "You said termlib was $termlib before." >&4;;
  esac;;
 esac;;
 esac;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_havetlib.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: html3dir.U,v $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty

```
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: html3dir.U,v $
?RCS:
?MAKE:html3dir html3direxp installhtml3dir: cat sed Loc Myread \
 spackage test Getfile Setprefixvar Prefixit Prefixup html1dir
?MAKE: -pick add $@ %<
?Y:TOP
?D:html3dir="
?S:html3dir:
?S: This variable contains the name of the directory in which html
?S: source pages are to be put.  This directory is for pages
?S: that describe libraries or modules.  It is intended to
?S: correspond roughly to section 3 of the Unix manuals.
?S:.
?D:html3direxp="
?S:html3direxp:
?S: This variable
 is the same as the html3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installhtml3dir="
?S:installhtml3dir:
?S: This variable is really the same as html3direxp, unless you are
?S: using a different installprefix.  For extra portability, you
?S: should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set html3direxp
?LINT:set installhtml3dir
: determine where html pages for libraries and modules go
set html3dir html3dir none
eval $prefixit
$cat <<EOM

If you wish to install html files for modules associated with $spackage,
indicate the appropriate directory here.  To skip installing html files,
answer "none".
EOM
: There is no obvious default.  If they have specified html1dir, then
: try to key off that, possibly changing .../html1 into .../html3.
case "$html3dir" in
") html3dir=`echo "$html1dir" | $sed 's/1$/3$/'` ;;
```

```
*) dflt=$html3dir ;;
esac
fn=dn+~
rp="Directory for the $spackage module
 html pages?"
. ./getfile
prefixvar=html3dir
. ./setprefixvar
: Use ' ' for none so value is preserved next time through Configure
$test X"$html3dir" = "X" && html3dir=' '
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/html3dir.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_safemcpy.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  15:41:12  ram
?RCS: patch61: improved overlapping copy check
?RCS: patch61: comfort them if they have memmove
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.4  1995/07/25  13:58:46  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.3  1995/03/21  08:47:26  ram
?RCS: patch52: swapped two first arguments of memcpy() calls
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:15:10
  ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:53:12  ram
?RCS: patch23: ensure string is not optimized in read-only memory (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:d_safemcpy: cat d_memcpy +cc +optimize +ccflags +libs +ldflags rm \
 d_memmove i_memory i_stdlib i_string i_unistd Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_safemcpy:
?S: This variable conditionally defines the HAS_SAFE_MEMCPY symbol if
?S: the memcpy() routine can do overlapping copies.
?S:.
?C:HAS_SAFE_MEMCPY (SAFE_MEMCPY):
?C: This symbol, if defined, indicates that the memcpy routine is available
?C: to copy potentially overlapping memory blocks. Otherwise you should
?C: probably use memmove() or memcpy(). If neither is defined, roll your
?C: own version.
?C:.
?H:#$d_safemcpy HAS_SAFE_MEMCPY /**/
?H:.
?F:!safemcpy
?LINT: set d_safemcpy
: can memcpy handle overlapping blocks?
?X:
 assume the worst
val="$undef"
case "$d_memcpy" in
"$define")
 echo " "
 echo "Checking to see if your memcpy() can do overlapping copies..." >&4
 $cat >foo.c <<EOCP
#$i_memory I_MEMORY
#$i_stdlib I_STDLIB
#$i_string I_STRING
#$i_unistd I_UNISTD
EOCP
 $cat >>foo.c <<'EOCP'
#include <stdio.h>
#ifdef I_MEMORY
#  include <memory.h>
#endif
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#ifdef I_STRING
#  include <string.h>
#else
#  include <strings.h>
#endif
#ifdef I_UNISTD
#  include <unistd.h>  /* Needed for NetBSD */
#endif
int main()
```

```
{
char buf[128], abc[128];
char *b;
int len;
int off;
int align;

/* Copy "abcde..." string to char abc[] so that gcc doesn't
  try to store the string in read-only memory. */
memcpy(abc, "abcdefghijklmnopqrstuvwxyz0123456789", 36);

for (align = 7; align >= 0; align--) {
 for (len = 36; len; len--) {
  b = buf+align;
  memcpy(b, abc, len);
  for (off = 1; off <= len; off++) {
   memcpy(b+off, b, len);
   memcpy(b, b+off, len);
   if (memcmp(b, abc, len))
    exit(1);
  }
 }
}
exit(0);
}
EOCP
 if
 $cc $optimize $ccflags $ldflags \
      -o safemcpy foo.c $libs >/dev/null 2>&1; then
  if ./safemcpy 2>/dev/null; then
   echo "Yes, it can."
   val="$define"
  else
   echo "It can't, sorry."
   case "$d_memmove" in
   "$define") echo "But that's Ok since you have memmove()." ;;
   esac
  fi
 else
  echo "(I can't compile the test program, so we'll assume not...)"
  case "$d_memmove" in
  "$define") echo "But that's Ok since you have memmove()." ;;
  esac
 fi
 ;;
esac
$rm -f foo.* safemcpy core
set d_safemcpy
```

```
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_safemcpy.U
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```
?RCS: $Id: d_endnent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
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?RCS:
?RCS: $Log: d_endnent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_endnent: Inlibc
?MAKE: -pick add $@ %<
?S:d_endnent:
?S: This variable conditionally defines HAS_ENDNETENT if endnetent() is
?S: available to close whatever was being used for network queries.
?S:.
?C:HAS_ENDNETENT:
?C: This symbol, if defined, indicates that the endnetent() routine is
?C: available to close whatever was being used for network
 queries.
?C:.
?H:#$d_endnent HAS_ENDNETENT  /**/
?H:.
?LINT:set d_endnent
: see if endnetent exists
set endnetent d_endnent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_endnent.U
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```
?RCS: $Id$
?RCS:
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?RCS:
```

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?RCS:
?RCS:
?MAKE:d_dirfd: Compile cat rm Setvar i_dirent i_sysdir i_sysndir i_systypes i_stdlib
?MAKE: -pick add $@ %<
?S:d_dirfd:
?S: This variable conditionally defines the HAS_DIRFD constant,
?S: which indicates to the C program that dirfd() is available
?S: to return the file descriptor of a directory stream.
?S:.
?C:HAS_DIRFD:
?C: This manifest constant lets the C program know that dirfd
?C: is available.
?C:.
?H:#$d_dirfd HAS_DIRFD  /**/
?H:.
?LINT:set d_dirfd
?X: Can't use Inlibc because dirfd() might be a macro.
: Look
 for dirfd
echo " "
$cat >dirfd.c <<EOM
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_dirent I_DIRENT  /**/
#$i_sysdir I_SYS_DIR  /**/
#$i_sysndir I_SYS_NDIR  /**/
#$i_systypes I_SYS_TYPES /**/
#if defined(I_SYS_TYPES)
#include <sys/types.h>
#endif
#if defined(I_DIRENT)
#include <dirent.h>
#else
#ifdef I_SYS_NDIR
#include <sys/ndir.h>
#else
#ifdef I_SYS_DIR
#include <sys/dir.h>
#endif
#endif
```

```
#endif
int main() {
 DIR *dirp = opendir(".");
 if (dirfd(dirp) >= 0)
  exit(0);
 else
  exit(1);
}
EOM
val=$undef
set dirfd
if eval $compile; then
 val="$define"
fi
case "$val" in
$define) echo "dirfd() found." >&4 ;;
*)  echo "dirfd() NOT found." >&4 ;;
esac
set d_dirfd
eval $setvar
$rm -f dirfd*
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_dirfd.U
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```
?RCS: $Id: i_grp.U,v 3.0 1993/08/18 12:08:20 ram Exp $
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: GRPASSWD detection added by Andy Dougherty  July 14, 1998.
?RCS:
?RCS: $Log: i_grp.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:20  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_grp d_grpasswd: \
 contains rm cppstdin cppflags cppminus Inhdr Findhdr Setvar
?MAKE: -pick add $@ %<
?S:i_grp:
?S: This variable conditionally defines the I_GRP symbol, and indicates
```

```
?S: whether a C program should include <grp.h>.
?S:.
?S:d_grpasswd:
?S: This variable conditionally
 defines GRPASSWD, which indicates
?S: that struct group in <grp.h> contains gr_passwd.
?S:.
?C:I_GRP:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <grp.h>.
?C:.
?C:GRPASSWD:
?C: This symbol, if defined, indicates to the C program that struct group
?C: in <grp.h> contains gr_passwd.
?C:.
?H:#$i_grp I_GRP  /**/
?H:#$d_grpasswd GRPASSWD /**/
?H:.
?LINT:set i_grp d_grpasswd
?T: xxx
: see if this is an grp system
set grp.h i_grp
eval $inhdr

case "$i_grp" in
$define)
 xxx=`./findhdr grp.h`
 $cppstdin $cppflags $cppminus < $xxx >$$.h

 if $contains 'gr_passwd' $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_grpasswd
 eval $setvar

 $rm -f $$.h
 ;;
*)
 val="$undef";
 set d_grpasswd; eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_grp.U

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```
?RCS: $Id: privlib.U,v 3.1 1999/07/08 18:32:29 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
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?RCS:
?RCS: $Log: privlib.U,v $
?RCS: Revision 3.1  1999/07/08 18:32:29  doughera
?RCS: Updated for perl5.005_5x
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:17:09  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:44:23  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:31:52  ram
?RCS:
 patch32: now uses installation prefix
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:12:34  ram
?RCS: patch10: added support for /local/lib (WED)
?RCS: patch10: prompt phrasing made more explicit (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:privlib privlibexp installprivlib: package cat Getfile Oldconfig \
 Setprefixvar Prefixit version installstyle binexp
?MAKE: -pick add $@ %<
?Y:TOP
?D:privlib=''
?S:privlib:
?S: This variable contains the eventual value of the PRIVLIB symbol,
?S: which is the name of the private library for this package.  It may
?S: have a ~ on the front. It is up to the makefile to eventually create
?S: this directory while performing installation (with ~ substitution).
?S:.
?D:privlibexp=''
?S:privlibexp:
?S: This variable is the ~name expanded version of privlib, so that you
```

```
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installprivlib="
?S:installprivlib:
?S: This variable
 is really the same as privlibexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?C:PRIVLIB:
?C: This symbol contains the name of the private library for this package.
?C: The library is private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.  The program
?C: should be prepared to do ~ expansion.
?C:.
?C:PRIVLIB_EXP:
?C: This symbol contains the ~name expanded version of PRIVLIB, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#define PRIVLIB "$privlib"  /**/
?H:#define PRIVLIB_EXP "$privlibexp"  /**/
?H:.
?LINT:change prefixvar
?LINT:set installprivlib
?LINT:set privlib
?LINT:set privlibexp
: determine where private library files go
: Usual default is /usr/local/lib/perl5/$version.
: Also allow things like /opt/perl/lib/$version, since
: /opt/perl/lib/perl5... would be redundant.
: The default "style"
 setting is made in installstyle.U
case "$installstyle" in
*lib/perl5*) set dflt privlib lib/$package/$version ;;
*)  set dflt privlib lib/$version ;;
esac
eval $prefixit
$cat <<EOM

There are some auxiliary files for $package that need to be put into a
private library directory that is accessible by everyone.

EOM
?X: Force dependency on bin.U
fn=$binexp
fn=d~+
rp='Pathname where the private library files will reside?'
. ./getfile
```

```
prefixvar=privlib
. ./setprefixvar

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/privlib.U
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:sitehtml3dir sitehtml3direxp installsitehtml3dir: Getfile \
 Setprefixvar prefix siteprefix html3dir sed
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitehtml3dir=''
?S:sitehtml3dir:
?S: This variable contains the name of the directory in which site-specific
?S: library html source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S: The standard distribution will put nothing in this directory.
?S: After
 perl has been installed, users may install their own local
?S: library html pages in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitehtml3direxp=''
?S:sitehtml3direxp:
?S: This variable is the same as the sitehtml3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsitehtml3dir=''
?S:installsitehtml3dir:
?S: This variable is really the same as sitehtml3direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: html3direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
```

```
?LINT:set installsitehtml3dir
?LINT:set sitehtml3dir
?LINT:set sitehtml3direxp
: determine where add-on library html pages go
: There is no standard location, so try to copy the previously-selected
: directory structure for the core html pages.
case
 "$sitehtml3dir" in
")    dflt=`echo "$html3dir" | $sed "s#^$prefix#$siteprefix#"` ;;
*)     dflt=$sitehtml3dir ;;
esac
case "$dflt" in
"|' ') dflt=none ;;
esac
fn=dn+~
rp='Pathname where the site-specific library html pages should be installed?'
. ./getfile
prefixvar=sitehtml3dir
. ./setprefixvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/sitehtml3dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: usethreads.U,v $
?RCS:
?RCS: Copyright (c) 1998-2000 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: usethreads.U,v $
?RCS:
?MAKE:usethreads useithreads d_oldpthreads usereentrant: \
 Myread Oldconfig Setvar test cat
?MAKE: -pick add $@ %<
?Y:TOP
?S:usethreads:
?S: This variable conditionally defines the USE_THREADS symbol,
?S: and indicates that Perl should be built to use threads.
?S:.
?S:useithreads:
?S: This variable conditionally defines the USE_ITHREADS symbol,
?S: and indicates that Perl should be built to use the interpreter-based
?S: threading implementation.
?S:.
?X: I'm putting old_pthreads in this unit because it might eventually
```

```
?X: be part of an automatic determination to see if we can use threads
?X: at all.
?S:d_oldpthreads:
?S: This variable conditionally
 defines the OLD_PTHREADS_API symbol,
?S: and indicates that Perl should be built to use the old
?S: draft POSIX threads API.  This is only potentially meaningful if
?S: usethreads is set.
?S:.
?S:usereentrant:
?S: This variable conditionally defines the USE_REENTRANT_API symbol,
?S: which indicates that the thread code may try to use the various
?S: _r versions of library functions.  This is only potentially
?S: meaningful if usethreads is set and is very experimental, it is
?S: not even prompted for.
?S:.
?C:USE_ITHREADS:
?C: This symbol, if defined, indicates that Perl should be built to
?C: use the interpreter-based threading implementation.
?C:.
?C:USE_THREADS:
?C: This symbol, if defined, indicates that Perl should
?C: be built to use threads.  At present, it is a synonym for
?C: and USE_ITHREADS, but eventually the source ought to be
?C: changed to use this to mean _any_ threading implementation.
?C:.
?C:OLD_PTHREADS_API:
?C: This symbol, if defined, indicates that Perl should
?C: be
 built to use the old draft POSIX threads API.
?C:.
?C:USE_REENTRANT_API:
?C: This symbol, if defined, indicates that Perl should
?C: try to use the various _r versions of library functions.
?C: This is extremely experimental.
?C:.
?H:#$useithreads USE_ITHREADS  /**/
?H:#$usethreads  USE_THREADS  /**/
?H:#$d_oldpthreads OLD_PTHREADS_API  /**/
?H:#$usereentrant USE_REENTRANT_API /**/
?H:.
?LINT:set usethreads d_oldpthreads
?INIT:: set usethreads on the Configure command line to enable threads.
?INIT:usereentrant='undef'
?F:!usethreads.cbu
: Do we want threads support and if so, what type
?X: We should really have some explanatory text here, and some
?X: automatic setting of sensible defaults.
```

```
case "$usethreads" in
$define|true|[yY]*)     dflt='y';;
*)     # Catch case where user specified ithreads but
      # forgot -Dusethreads (A.D. 4/2002)
      case "$useithreads" in
      *$define*) dflt='y';;
      *)  dflt='n';;
      esac
      ;;
esac
cat <<EOM

Perl can be built to
 offer a form of threading support on some systems
To do so, Configure can be run with -Dusethreads.

Note that Perl built with threading support runs slightly slower
and uses slightly more memory than plain Perl.

If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp='Build a threading Perl?'
. ./myread
case "$ans" in
y|Y)    val="$define" ;;
*)      val="$undef" ;;
esac
set usethreads
eval $setvar

useithreads="$usethreads"

?X: Check out what kind of threads API we have
case "$d_oldpthreads" in
") : Configure tests would be welcome here.  For now, assume undef.
 val="$undef" ;;
*) val="$d_oldpthreads" ;;
esac
set d_oldpthreads
eval $setvar

?X: In general, -lpthread needs to come before -lc but after other
?X: libraries such as -lgdbm and such like. We assume here that -lc
?X: is present in libswanted. If that fails to be true, then this
?X: can be changed to add pthread to the very end of libswanted.

: Look for a hint-file generated 'call-back-unit'.  If the
:
```

```
 user has specified that a threading perl is to be built,
: we may need to set or change some other defaults.
if $test -f usethreads.cbu; then
   echo "Your platform has some specific hints regarding threaded builds, using them..."
   . ./usethreads.cbu
else
   case "$usethreads" in
 "$define"|true|[yY]*)
  $cat <<EOM
(Your platform does not have any specific hints for threaded builds.
Assuming POSIX threads, then.)
EOM
 ;;
   esac
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/usethreads.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethbynm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_gethbynm.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_gethbyname: Inlibc
?MAKE: -pick add $@ %<
?S:d_gethbyname (d_gethbynm d_gethhstby):
?S: This variable conditionally defines the HAS_GETHOSTBYNAME symbol, which
?S: indicates to the C program that the gethostbyname() routine is available
?S: to look up host names in some data base or other.
?S:.
?C:HAS_GETHOSTBYNAME (GETHOSTBYNAME):
?C: This
 symbol, if defined, indicates that the gethostbyname() routine is
?C: available to look up host names in some data base or other.
?C:.
?H:#$d_gethbyname HAS_GETHOSTBYNAME  /**/
```

```
?H:.
?LINT:set d_gethbyname
: see if gethostbyname exists
set gethostbyname d_gethbyname
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_gethbynm.U
No license file was found, but licenses were detected in source scan.

```
?RCS:
?RCS: Copyright (c) 2012 Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:Assert: cat
?MAKE: -pick add $@ %<
?F:./static_assert.h
: static assertion checking include file
?X:
?X: C programs can include this file to perform STATIC_ASSERT() checks
?X: which are done at compile-time and cause the compilation to fail when
?X: the expression is false.
?X:
?X: It is sufficient to compile with: $cc -c $ccflags try.c
?X: There is no need to link the file to spot the assertion failure.
?X:
$cat >static_assert.h <<'EOC'
#define STATIC_ASSERT(expr) \
 do { switch (0) { case ((expr) ? 1 : 0): case 0: break; } }
 while(0)
EOC
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Assert.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isnanl: Inlibc
?MAKE: -pick add $@ %<
?S:d_isnanl:
?S: This variable conditionally defines the HAS_ISNANL symbol, which
?S: indicates to the C program that the isnanl() routine is available.
?S:.
?C:HAS_ISNANL:
?C: This symbol, if defined, indicates that the isnanl routine is
?C: available to check whether a long double is a NaN.
?C:.
?H:#$d_isnanl HAS_ISNANL  /**/
?H:.
?LINT:set d_isnanl
: see if isnanl exists
set isnanl d_isnanl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_isnanl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: archname.U,v 3.0.1.3 1997/02/28 15:24:32 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: archname.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:24:32  ram
?RCS: patch61: changed the way the archname is mangled from uname
?RCS:
?RCS: Revision 3.0.1.2  1995/05/12  12:05:24  ram
?RCS: patch54: protect against spaces in "uname -m" output (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1995/02/15  14:14:21  ram
?RCS: patch51: created
?RCS:
?MAKE:archname myarchname useversionedarchname: sed Loc Myread Oldconfig \
 osname test rm usethreads usemultiplicity use64bitint
 use64bitall \
 archname64 uselongdouble longdblsize doublesize targetarch Setvar \
```

```
 api_versionstring usequadmath
?MAKE: -pick add $@ %<
?S:archname:
?S: This variable is a short name to characterize the current
?S: architecture.  It is used mainly to construct the default archlib.
?S:.
?S:myarchname:
?S: This variable holds the architecture name computed by Configure in
?S: a previous run. It is not intended to be perused by any user and
?S: should never be set in a hint file.
?S:.
?S:useversionedarchname:
?S: This variable indicates whether to include the $api_versionstring
?S: as a component of the $archname.
?S:.
?C:ARCHNAME:
?C: This symbol holds a string representing the architecture name.
?C: It may be used to construct an architecture-dependant pathname
?C: where library files may be held under a private library, for
?C: instance.
?C:.
?H:#define ARCHNAME "$archname"  /**/
?H:.
?T:xxx tarch
?F:!archname.cbu
?INIT:archname="
: determine the architecture name
echo " "
?X:
 We always recompute archname in case osname changes. However, we need
?X: to be careful since, as ADO rightfully pointed out, some systems pick
?X: silly architecture names (0001307135000-aix on AIX or 9000/715-ux under
?X: HP-UX). Therefore, we allow hint files to superseed our guess and ask
?X: the user for confirmation.
if xxx=`./loc arch blurfl $pth`; $test -f "$xxx"; then
 tarch=`arch`"-$osname"
elif xxx=`./loc uname blurfl $pth`; $test -f "$xxx" ; then
 if uname -m > tmparch 2>&1 ; then
  tarch=`$sed -e 's/ *$//' -e 's/ /_/g' \
   -e 's/$/"'-$osname/" tmparch`
 else
  tarch="$osname"
 fi
 $rm -f tmparch
else
 tarch="$osname"
fi
case "$myarchname" in
```

```
"|"$tarch") ;;
*)
 echo "(Your architecture name used to be $myarchname.)"
 archname=''
 ;;
esac
case "$targetarch" in
'') ;;
?X: Very GCCian.
*)  archname=`echo $targetarch|sed 's,^[^-]*-,,'` ;;
esac
myarchname="$tarch"
case "$archname" in
'') dflt="$tarch";;
*) dflt="$archname";;
esac
rp='What is your architecture name'
. ./myread
archname="$ans"

:
 optionally add API version to the architecture for versioned archlibs
case "$useversionedarchname" in
$define|true|[yY]*) dflt='y';;
*)                  dflt='n';;
esac
rp='Add the Perl API version to your archname?'
. ./myread
case "$ans" in
y|Y) useversionedarchname="$define" ;;
*)      useversionedarchname="$undef" ;;
esac
case "$useversionedarchname" in
$define)
 case "$archname" in
 *-$api_versionstring)
  echo "...and architecture name already has -$api_versionstring" >&4
  ;;
 *)
  archname="$archname-$api_versionstring"
  echo "...setting architecture name to $archname." >&4
  ;;
 esac
 ;;
esac

@if usethreads
case "$usethreads" in
```

```
$define)
 echo "Threads selected." >&4
 case "$archname" in
 *-thread*) echo "...and architecture name already has -thread." >&4
  ;;
 *)      archname="$archname-thread"
  echo "...setting architecture name to $archname." >&4
  ;;
 esac
 ;;
esac
@end
@if usemultiplicity
case "$usemultiplicity" in
$define)
 echo "Multiplicity selected."
 >&4
 case "$archname" in
 *-multi*) echo "...and architecture name already has -multi." >&4
  ;;
 *)      archname="$archname-multi"
  echo "...setting architecture name to $archname." >&4
  ;;
 esac
 ;;
esac
@end
@if use64bitint
case "$use64bitint$use64bitall" in
*"$define"*)
 case "$archname64" in
 ")
  echo "This architecture is naturally 64-bit, not changing architecture name." >&4
  ;;
 *)
  case "$use64bitint" in
  "$define") echo "64 bit integers selected." >&4 ;;
  esac
  case "$use64bitall" in
  "$define") echo "Maximal 64 bitness selected." >&4 ;;
  esac
  case "$archname" in
  *-$archname64*) echo "...and architecture name already has $archname64." >&4
   ;;
  *)      archname="$archname-$archname64"
   echo "...setting architecture name to $archname." >&4
   ;;
  esac
```

```
  ;;
 esac
esac
@end
@if uselongdouble
case "$uselongdouble" in
$define)
 echo "Long doubles selected." >&4
 case "$longdblsize" in
 $doublesize)
  echo "...but long doubles are equal to doubles, not
 changing architecture name." >&4
  ;;
 *)
  case "$archname" in
  *-ld*) echo "...and architecture name already has -ld." >&4
   ;;
  *)      archname="$archname-ld"
   echo "...setting architecture name to $archname." >&4
   ;;
  esac
  ;;
 esac
 ;;
esac
@end
@if usequadmath
case "$usequadmath" in
$define)
 echo "quadmath selected." >&4
 case "$archname" in
 *-quadmath*) echo "...and architecture name already has -quadmath." >&4
  ;;
 *)      archname="$archname-quadmath"
  echo "...setting architecture name to $archname." >&4
  ;;
 esac
 ;;
esac
@end
if $test -f archname.cbu; then
 echo "Your platform has some specific hints for architecture name, using them..."
 . ./archname.cbu
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/archname.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setpgrp.U,v 3.0.1.3 1997/02/28 15:44:16 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_setpgrp.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:44:16  ram
?RCS: patch61: obsoleted USE_BSDGRP in favor of USE_BSD_SETPGRP
?RCS: patch61: another unit now also defines a USE_BSD_GETPGRP
?RCS: patch61: fallback for test program failure improved
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  13:59:30  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:15:37  ram
?RCS: patch36: added
 'ldflags' to the test compile line (ADO)
?RCS: patch36: call ./usg explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setpgrp d_bsdsetpgrp: cat rm_try +cc +libs +ccflags \
 +ldflags Inlibc Guess Setvar i_unistd i_stdlib run
?MAKE: -pick add $@ %<
?S:d_setpgrp:
?S: This variable conditionally defines HAS_SETPGRP if setpgrp() is
?S: available to set the current process group.
?S:.
?S:d_bsdsetpgrp (d_bsdpgrp):
?S: This variable conditionally defines USE_BSD_SETPGRP if
?S: setpgrp needs two arguments whereas USG one needs none.
?S: See also d_setpgid for a POSIX interface.
?S:.
?C:HAS_SETPGRP (SETPGRP):
?C: This symbol, if defined, indicates that the setpgrp routine is
?C: available to set the current process group.
?C:.
?C:USE_BSD_SETPGRP (USE_BSDPGRP BSDPGRP):
?C: This symbol, if defined, indicates that setpgrp needs two
?C: arguments whereas USG one needs none.  See also HAS_SETPGID
```

```
?C: for
 a POSIX interface.
?C:.
?H:#$d_setpgrp HAS_SETPGRP  /**/
?H:#$d_bsdsetpgrp USE_BSD_SETPGRP /**/
?H:.
?T:xxx
?F:!try
?LINT:set d_setpgrp d_bsdsetpgrp
: see if setpgrp exists
set setpgrp d_setpgrp
eval $inlibc

@if USE_BSD_SETPGRP || d_bsdsetpgrp
case "$d_setpgrp" in
"$define")
 echo " "
 echo "Checking to see which flavor of setpgrp is in use..."
 $cat >try.c <<EOP
#include <stdio.h>
#$i_unistd I_UNISTD
#include <sys/types.h>
#ifdef I_UNISTD
#  include <unistd.h>
#endif
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
{
 if (getuid() == 0) {
  printf("(I see you are running Configure as super-user...)\n");
  setuid(1);
 }
#ifdef TRY_BSD_PGRP
 if (-1 == setpgrp(1, 1))
  exit(0);
#else
 if (setpgrp() != -1)
  exit(0);
#endif
 exit(1);
}
EOP
 if $cc -o try -DTRY_BSD_PGRP $ccflags $ldflags try.c $libs >/dev/null 2>&1 && $run ./try; then
  echo 'You have to use setpgrp(pid,pgrp) instead of setpgrp().' >&4
  val="$define"
```

```
 elif $cc -o try $ccflags $ldflags try.c $libs
>/dev/null 2>&1 && $run ./try; then
  echo 'You have to use setpgrp() instead of setpgrp(pid,pgrp).' >&4
  val="$undef"
 else
  echo "(I can't seem to compile and run the test program.)"
  if ./usg; then
   xxx="a USG one, i.e. you use setpgrp()."
  else
   # SVR4 systems can appear rather BSD-ish.
   case "$i_unistd" in
   $undef)
    xxx="a BSD one, i.e. you use setpgrp(pid,pgrp)."
    val="$define"
    ;;
   $define)
    xxx="probably a USG one, i.e. you use setpgrp()."
    val="$undef"
    ;;
   esac
  fi
  echo "Assuming your setpgrp is $xxx" >&4
 fi
 ;;
*) val="$undef";;
esac
set d_bsdsetpgrp
eval $setvar
$rm_try
@end
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_setpgrp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Prefixit.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Prefixit.U,v $
?RCS: Revision 3.0.1.1  1995/01/30  14:29:22  ram
```

```
?RCS: patch49: created
?RCS:
?X:
?X: Used as: "set dflt var dir; eval $prefixit" to set $dflt to be
?X: $prefix/dir by default, or the previous $var depending on certain
?X: conditions:
?X: - If the $oldprefix variable is empty, then $prefix holds the same
?X:   value as on previous runs. Therefore, reuse $var if set, otherwise
?X:   set $dflt to $prefix/dir.
?X: - If $oldprefix is not
 empty, then set $dflt to $prefix/dir if $var
?X:   is empty (first run). Otherwise, if $var is $oldprefix/dir, then
?X:   change it to $prefix/dir. If none of the above, reuse the old $var.
?X:
?X: When dir is omitted, the dflt variable is set to $var if prefix did not
?X: change, to an empty value otherwise. If dir=none, then a single space
?X: in var is kept as-is, even if the prefix changes.
?X:
?MAKE:Prefixit: prefix oldprefix
?MAKE: -pick add $@ %<
?LINT:define prefixit
?S:prefixit:
?S: This shell variable is used internally by Configure to reset
?S: the leading installation prefix correctly when it is changed.
?S:  set dflt var [dir]
?S:  eval $prefixit
?S: That will set $dflt to $var or $prefix/dir depending on the
?S: value of $var and $oldprefix.
?S:.
?V:prefixit
?T:tp
: set the prefixit variable, to compute a suitable default value
prefixit='case "$3" in
""|none)
 case "$oldprefix" in
 "") eval "$1=\"\$$2\"";;
 *)
  case "$3" in
  "") eval "$1=";;
  none)
   eval "tp=\"\$$2\"";
   case
 "$tp" in
   ""|" "|none) eval "$1=\"\$$2\"";;
   *) eval "$1=";;
   esac;;
  esac;;
 esac;;
```

```
*)
 eval "tp=\"$oldprefix-\$$2-\""; eval "tp=\"$tp\"";
 case "$tp" in
 --|/*--|\~*--) eval "$1=\"$prefix/$3\"";;
 /*-$oldprefix/*|\~*-$oldprefix/*)
  eval "$1=\`echo \$$2 | sed \"s,^$oldprefix,$prefix,\"\`";;
 *) eval "$1=\"\$$2\"";;
 esac;;
esac'
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Prefixit.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2005 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_clearenv: Inlibc
?MAKE: -pick add $@ %<
?S:d_clearenv:
?S: This variable conditionally defines the HAS_CLEARENV symbol, which
?S: indicates to the C program that the clearenv () routine is available.
?S:.
?C:HAS_CLEARENV:
?C: This symbol, if defined, indicates that the clearenv () routine is
?C: available for use.
?C:.
?H:#$d_clearenv HAS_CLEARENV  /**/
?H:.
?LINT:set d_clearenv
: see if clearenv exists
set clearenv d_clearenv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_clearenv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_inetd.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_inetd.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:23  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_inetd: cat test package Myread Setvar
?MAKE: -pick add $@ %<
?S:d_inetd:
?S: This symbol conditionally defines USE_INETD which indicates to the C
?S: program that the initial socket connection will be done via inetd.
?S:.
?C:USE_INETD (INETD):
?C: This symbol if defined indicates to the C program that inetd will be
?C: in charge of the
 initial socket connection. The file descriptors 0 and
?C: 1 have been dup()ed from the original connected socket descriptor and
?C: are ready for send() and recv().
?C:.
?H:#$d_inetd USE_INETD  /**/
?H:.
?LINT:set d_inetd
: ask whether initial socket connection is to be done via inetd
echo " "
dflt=n
case "$d_inetd" in
") if $test -f /etc/inetd.conf; then
  $cat <<EOM
Your system provides a so called "Internet super-server", the inetd daemon.
Network services like ftp or rlogin are usually handled via ftpd and rlogind
daemons. Without inetd, these daemons must always be running for the service
to be on. On the contrary, inetd listens to specific ports defined in file
/etc/inetd.conf and will run the appropriate daemon upon request. This scheme
avoids eating up the process table and memory with useless daemons.

I can set up things so that internet connections for $package will be done
using inetd, in which case you will have to edit /etc/inetd.conf to add some
specific informations.

EOM
  dflt=y
 else
  $cat
```

```
 <<EOM
I do not see any trace of a configuration file for inetd, hence I assume your
system does not support the so called "Internet super-server". This means
$package will need to have a daemon process running on this machine to allow
network connections.

EOM
 fi;;
*) case "$d_inetd" in
 "$define") dflt=y;;
 esac;;
esac
rp='Do you wish to use inetd for network connections?'
. ./myread
val="$undef"
case "$ans" in
y*|Y*) val="$define";;
esac
set d_inetd
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_inetd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_voidsig.U,v 3.0.1.3 1995/05/12 12:12:46 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_voidsig.U,v $
?RCS: Revision 3.0.1.3  1995/05/12  12:12:46  ram
?RCS: patch54: made cppflags dependency optional
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:20:35  ram
?RCS: patch32: now sets signal_t only once d_voidsig is known (WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:59:54  ram
?RCS: patch30: now properly sets signal_t when re-using previous value
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:56  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?MAKE:d_voidsig
 signal_t: rm contains cppstdin cppminus +cppflags test Myread \
 Oldconfig Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_voidsig:
?S: This variable conditionally defines VOIDSIG if this system
?S: declares "void (*signal(...))()" in signal.h.  The old way was to
?S: declare it as "int (*signal(...))()".
?S:.
?S:signal_t:
?S: This variable holds the type of the signal handler (void or int).
?S:.
?C:VOIDSIG:
?C: This symbol is defined if this system declares "void (*signal(...))()" in
?C: signal.h.  The old way was to declare it as "int (*signal(...))()".  It
?C: is up to the package author to declare things correctly based on the
?C: symbol.
?C:.
?C:Signal_t (SIGNAL_T):
?C: This symbol's value is either "void" or "int", corresponding to the
?C: appropriate return type of a signal handler.  Thus, you can declare
?C: a signal handler using "Signal_t (*handler)()", and define the
?C: handler using "Signal_t handler(sig)".
?C:.
?H:#$d_voidsig VOIDSIG /**/
?H:#define
 Signal_t $signal_t /* Signal handler's return type */
?H:.
?T:xxx
?LINT:set d_voidsig
: see if signal is declared as pointer to function returning int or void
echo " "
xxx=`./findhdr signal.h`
$test "$xxx" && $cppstdin $cppminus $cppflags < $xxx >$$.tmp 2>/dev/null
if $contains 'int.*\*[  ]*signal' $$.tmp >/dev/null 2>&1 ; then
 echo "You have int (*signal())() instead of void." >&4
 val="$undef"
elif $contains 'void.*\*[  ]*signal' $$.tmp >/dev/null 2>&1 ; then
 echo "You have void (*signal())()." >&4
 val="$define"
elif $contains 'extern[  ]*[(\*]*signal' $$.tmp >/dev/null 2>&1 ; then
 echo "You have int (*signal())() instead of void." >&4
 val="$undef"
?X: This next test is kind of sloppy, but it catches Linux
?X: which has a
?X:  typedef void (*__sighandler_t)  (int)  ;
?X: A better fix would be to compile a C program with the proper
```

```
?X: prototype, but since nearly everyone uses void, we'll just go with
?X: this.
elif $contains 'void.*\*.*sig' $$.tmp >/dev/null 2>&1 ; then
 echo "You
 have void (*signal())()." >&4
 val="$define"
else
 case "$d_voidsig" in
 ")
 echo "I can't determine whether signal handler returns void or int..." >&4
  dflt=void
  rp="What type does your signal handler return?"
  . ./myread
  case "$ans" in
  v*) val="$define";;
  *) val="$undef";;
  esac;;
 "$define")
  echo "As you already told me, signal handler returns void." >&4
  val="$define"
  ;;
 *) echo "As you already told me, signal handler returns int." >&4
  val="$undef"
  ;;
 esac
fi
set d_voidsig
eval $setvar
case "$d_voidsig" in
"$define") signal_t="void";;
*) signal_t="int";;
esac
$rm -f $$.tmp
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_voidsig.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
```

```
?MAKE:sizesize: Myread Typedef sizetype Compile run i_stdlib
?MAKE: -pick add $@ %<
?S:sizesize:
?S: This variable contains the size of a sizetype in bytes.
?S:.
?C:Size_t_size:
?C: This symbol holds the size of a Size_t in bytes.
?C:.
?H:#define Size_t_size $sizesize  /**/
?H:.
?T:yyy zzz
?F:!try
: Check size of size
echo " "
case "$sizetype" in
*_t) zzz="$sizetype" ;;
*)   zzz="filesize" ;;
esac
echo "Checking the size of $zzz..." >&4
cat > try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include
 <stdlib.h>
#endif
int main() {
   printf("%d\n", (int)sizeof($sizetype));
   exit(0);
}
EOCP
set try
if eval $compile_ok; then
 yyy=`$run ./try`
 case "$yyy" in
 ") sizesize=4
  echo "(I can't execute the test program--guessing $sizesize.)" >&4
  ;;
 *) sizesize=$yyy
  echo "Your $zzz size is $sizesize bytes."
  ;;
 esac
else
 sizesize=4
 echo "(I can't compile the test program--guessing $sizesize.)" >&4
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/sizesize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libs.U,v 3.0.1.6 1997/02/28 16:09:11 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: libs.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  16:09:11  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.5  1995/07/25  14:12:05  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  16:24:22  ram
?RCS: patch36: removed old broken thislib/thatlib processing (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:05:44  ram
?RCS: patch30: code cleanup with if/elif by ADO and RAM
?RCS: patch30:
 undone patch23 for libswanted default setting
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:08:45  ram
?RCS: patch23: now includes ordered default libswanted variable (ADO)
?RCS: patch23: major cleanup for library lookups (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:02:31  ram
?RCS: patch6: added default for libs
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libs ignore_versioned_solibs libsfound libsfiles libsdirs libspath: \
 test cat Myread Oldconfig Loc libpth package xlibpth so _a \
 usesocks sed uselongdouble usequadmath
?MAKE: -pick add $@ %<
?S:libs:
?S: This variable holds the additional libraries we want to use.
?S: It is up to the Makefile to deal with it.  The list can be empty.
?S:.
```

```
?S:libsfound:
?S: This variable holds the full pathnames of the libraries
?S: we found and accepted.
?S:.
?S:libsfiles:
?S: This variable holds the filenames aka basenames of the libraries
?S: we found and accepted.
?S:.
?S:libsdirs:
?S: This
 variable holds the directory names aka dirnames of the libraries
?S: we found and accepted, duplicates are removed.
?S:.
?S:libspath:
?S: This variable holds the directory names probed for libraries.
?S:.
?S:ignore_versioned_solibs:
?S: This variable should be non-empty if non-versioned shared
?S: libraries (libfoo.so.x.y) are to be ignored (because they
?S: cannot be linked against).
?S:.
?T:xxx yyy thislib thisdir libswanted libstyle
?D:libs="
?X:
?X: This order is chosen so that libraries  -lndir, -ldir, -lucb, -lbsd,
?X: -lBSD, -lPW, and -lx only get used if there are unresolved
?X: routines at link time.  Usually, these are backwards compatibility
?X: libraries, and may not be as reliable as the standard c library.
?X:
?X: The -lsocket -linet -lnsl order has been reported to be necessary
?X: for at least one SVR4 implementation.
?X: -lc must proceed -lucb or -lbsd for most Solaris applications.
?X: -lc_s proceeds -lc so we pick up the shared library version,
 if
?X: it is available.
?X:
?X: The ordering of c, posix, and cposix is a guess and almost
?X: certainly wrong on about half of all systems.
?X:
?X: Set proper libswanted in your private Myinit.U if needed.
?X:
?X:: default ordered library list
?X:libswanted='net socket inet bind nsl nm sdbm gdbm ndbm dbm malloc dl'
?X:libswanted="$libswanted dld sun m c_s c posix cposix ndir dir ucb"
?X:libswanted="$libswanted bsd BSD PW x"
?X:
?INIT:: default library list
?INIT:libswanted="
```

```
?INIT:: some systems want to use only the non-versioned libso:s
?INIT:ignore_versioned_solibs="
?LINT:extern usecbacktrace
?LINT:extern libscheck
?LINT:extern p
?LINT:use uselongdouble
: Looking for optional libraries
echo " "
echo "Checking for optional libraries..." >&4
case "$libs" in
' '|'') dflt='';;
*) dflt="$libs";;
esac
case "$libswanted" in
'') libswanted='c_s';;
esac
?X: libsocks has nasty naming scheme.
?X: This does not work if somebody wants SOCKS 4.
case "$usesocks" in
"$define") libswanted="$libswanted
 socks5 socks5_sh" ;;
esac
case "$usecbacktrace" in
"$define") libswanted="$libswanted bfd" ;;
esac
case "$usequadmath" in
"$define") libswanted="$libswanted quadmath" ;;
esac
libsfound="
libsfiles="
libsdirs="
libspath="
for thisdir in $libpth $xlibpth; do
 test -d $thisdir && libspath="$libspath $thisdir"
done
for thislib in $libswanted; do
 for thisdir in $libspath; do
    xxx="
    if $test ! -f "$xxx" -a "X$ignore_versioned_solibs" = "X"; then
  xxx=`ls $thisdir/lib$thislib.$so.[0-9] 2>/dev/null|sed -n '$p'`
        $test -f "$xxx" && eval $libscheck
  $test -f "$xxx" && libstyle=shared
  xxx=`ls $thisdir/lib$thislib.[0-9].$so 2>/dev/null|sed -n '$p'`
        $test -f "$xxx" && eval $libscheck
  $test -f "$xxx" && libstyle=shared
    fi
    if test ! -f "$xxx"; then
  xxx=$thisdir/lib$thislib.$so
```

```
        $test -f "$xxx" && eval $libscheck
 $test -f "$xxx" && libstyle=shared
    fi
    if test ! -f "$xxx"; then
 xxx=$thisdir/lib$thislib$_a
        $test -f "$xxx"
&& eval $libscheck
 $test -f "$xxx" && libstyle=static
    fi
    if test ! -f "$xxx"; then
 xxx=$thisdir/$thislib$_a
        $test -f "$xxx" && eval $libscheck
 $test -f "$xxx" && libstyle=static
    fi
    if test ! -f "$xxx"; then
 xxx=$thisdir/lib${thislib}_s$_a
        $test -f "$xxx" && eval $libscheck
 $test -f "$xxx" && libstyle=static
 $test -f "$xxx" && thislib=${thislib}_s
    fi
    if test ! -f "$xxx"; then
 xxx=$thisdir/Slib$thislib$_a
        $test -f "$xxx" && eval $libscheck
 $test -f "$xxx" && libstyle=static
    fi
    if $test -f "$xxx"; then
 case "$libstyle" in
 shared) echo "Found -l$thislib (shared)." ;;
 static) echo "Found -l$thislib." ;;
 *)      echo "Found -l$thislib ($libstyle)." ;;
 esac
 case " $dflt " in
 *"-l$thislib "*);;
 *) dflt="$dflt -l$thislib"
                libsfound="$libsfound $xxx"
                yyy=`basename $xxx`
                libsfiles="$libsfiles $yyy"
                yyy=`echo $xxx|$sed -e
"s%/$yyy\\$%%"`
                case " $libsdirs " in
                *" $yyy "*) ;;
                *) libsdirs="$libsdirs $yyy" ;;
                esac
    ;;
 esac
 break
    fi
done
```

```
 if $test ! -f "$xxx"; then
     echo "No -l$thislib."
 fi
done
set X $dflt
shift
dflt="$*"
case "$libs" in
") dflt="$dflt";;
*) dflt="$libs";;
esac
case "$dflt" in
' '|") dflt='none';;
esac

$cat <<EOM

In order to compile $package on your machine, a number of libraries
are usually needed.  Include any other special libraries here as well.
Say "none" for none.  The default list is almost always right.
EOM

echo " "
rp="What libraries to use?"
. ./myread
case "$ans" in
none) libs=' ';;
*) libs="$ans";;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/libs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getnbyad.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getnbyaddr: Inlibc
?MAKE: -pick add $@ %<
?S:d_getnbyaddr:
?S: This variable conditionally defines the HAS_GETNETBYADDR symbol, which
?S: indicates to the C program that the getnetbyaddr() routine is available
?S: to look up networks by their IP addresses.
```

```
?S:.
?C:HAS_GETNETBYADDR:
?C: This symbol, if defined, indicates that the getnetbyaddr() routine is
?C: available to look up networks by their IP addresses.
?C:.
?H:#$d_getnbyaddr HAS_GETNETBYADDR  /**/
?H:.
?LINT:set d_getnbyaddr
: see if getnetbyaddr exists
set getnetbyaddr d_getnbyaddr
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_getnbyad.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_ftello: Inlibc longsize
?MAKE: -pick add $@ %<
?S:d_ftello:
?S: This variable conditionally defines the HAS_FTELLO symbol, which
?S: indicates to the C program that the ftello() routine is available.
?S:.
?C:HAS_FTELLO:
?C: This symbol, if defined, indicates that the ftello routine is
?C: available to ftell beyond 32 bits (useful for ILP32 hosts).
?C:.
?H:#$d_ftello HAS_FTELLO  /**/
?H:.
?LINT:set d_ftello
: see if ftello exists
set ftello d_ftello
eval $inlibc
case "$longsize" in
8) echo "(Your long is 64 bits, so you could use ftell.)" ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_ftello.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_shmdt.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_shmdt.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_shmdt: Inlibc
?MAKE: -pick add $@ %<
?S:d_shmdt:
?S: This variable conditionally defines the HAS_SHMDT symbol, which
?S: indicates to the C program that the shmdt() routine is available.
?S:.
?C:HAS_SHMDT:
?C: This symbol, if defined, indicates that the shmdt() routine is
?C: available to detach a shared memory segment from the process
 space.
?C:.
?H:#$d_shmdt HAS_SHMDT  /**/
?H:.
?LINT:set d_shmdt
: see if shmdt exists
set shmdt d_shmdt
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_shmdt.U
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```
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?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: randfunc.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This is the new unit that should be used when random
?X: functions are to be used. It thus makes randbits.U obsolete.
?X:
?MAKE:randfunc mrand seedfunc nrandbits: cat +cc rm test Myread Csym
?MAKE: -pick add $@ %<
?S:randfunc:
?S: Indicates the name of the random number function to use.
?S: Values include drand48, random, and rand. In C programs,
?S: the 'nrand' macro is defined
 to generate uniformly distributed
?S: random numbers over the range [0., 1.] (see mrand and nrand).
?S:.
?S:mrand:
?S: Indicates the macro to be used to generate normalized
?S: random numbers.  Uses randfunc, often divided by
?S: (double) ((1 << nrandbits) -1) in order to normalize the result.
?S: In C programs, the macro 'nrand' is maped on mrand.
?S:.
?S:seedfunc:
?S: Indicates the random number generating seed function.
?S: Values include srand48, srandom, and srand.
?S:.
?S:nrandbits:
?S: Indicates how many bits are produced by the function used to
?S: generate normalized random numbers.
?S:.
?C:nrand:
?C: This macro is to be used to generate uniformly distributed
?C: random numbers over the range [0., 1.].
?C:.
?C:seednrand:
?C: This symbol defines the macro to be used in seeding the
?C: random number generator (see nrand).
?C:.
?H:#define nrand()  $mrand  /**/
?H:#define seednrand(x) $seedfunc(x) /**/
?H:.
?T:cont val
?LINT:nothere $nrandbits)
: How can we generate normalized
 random numbers ?
echo " "
```

```
case "$randfunc" in
")
 if set drand48 val -f; eval $csym; $val; then
  dflt="drand48"
  echo "Good, found drand48()." >&4
 elif set random val -f; eval $csym; $val; then
  dflt="random"
  echo "OK, found random()." >&4
 else
  dflt="rand"
  echo "Yick, looks like I have to use rand()." >&4
 fi
 echo " "
 ;;
*)
 dflt="$randfunc"
 ;;
esac
cont=true
while $test "$cont"; do
 rp="Use which function to generate random numbers?"
 . ./myread
?X: Invalidates nrandbits if the answer is not the default so
?X: that the value stored in config.sh will not be used when
?X: we change our random function.
 if $test "$ans" = "$dflt"; then
  : null
 else
  nrandbits=''
 fi
 randfunc="$ans"
 if set $ans val -f; eval $csym; $val; then
  cont=''
 else
  dflt=n
  rp="Function $ans does not exists. Use that name anyway?"
  . ./myread
  dflt=rand
  case "$ans" in
   [yY]*) cont='';;
  esac
 fi
 case "$cont" in
 ")
  case "$randfunc" in
  drand48)
   mrand="drand48()"
   seedfunc="srand48"
```

```
   ;;
  rand*)
   case
 "$nrandbits" in
   ")
echo "Checking to see how many bits your $randfunc() function produces..." >&4
   $cat >try.c <<EOCP
#include <stdio.h>
int main()
{
 register int i;
 register unsigned long tmp;
 register unsigned long max = 0L;
 extern long random();

 for (i = 1000; i; i--) {
  tmp = (unsigned long)$randfunc();
  if (tmp > max) max = tmp;
 }
 for (i = 0; max; i++)
  max /= 2;
 printf("%d\n",i);
}
EOCP
   if $cc -o try try.c >/dev/null 2>&1 ; then
   dflt=`try`
   else
   dflt='?'
   echo "(I can't seem to compile the test program...)"
   fi
   ;;
   *)
    dflt="$nrandbits"
    ;;
   esac
   rp="How many bits does your $randfunc() function produce?"
   . ./myread
   nrandbits="$ans"
   $rm -f try.c try
   mrand="($randfunc() / (double) ((1 << $nrandbits) -1))"
   seedfunc="srand"
   ;;
?X: The following is provided just in case...
  *)
   dflt="31"
   rp="How many bits does your $randfunc() function produce?"
   . ./myread
   nrandbits="$ans"
```

```
   seedfunc="s$randfunc"
   mrand="($randfunc()
 / (double) ((1 << $nrandbits) -1))"
   if set $seedfunc val -f; eval $csym; $val; then
    echo "(Using $seedfunc() to seed random generator)"
   else
    echo "(Warning: no $seedfunc() to seed random generator)"
    seedfunc=rand
   fi
   ;;
  esac
  ;;
 esac
done
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/randfunc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d__fwalk: Inlibc
?MAKE: -pick add $@ %<
?S:d__fwalk:
?S: This variable conditionally defines HAS__FWALK if _fwalk() is
?S: available to apply a function to all the file handles.
?S:.
?C:HAS__FWALK:
?C: This symbol, if defined, indicates that the _fwalk system call is
?C: available to apply a function to all the file handles.
?C:.
?H:#$d__fwalk HAS__FWALK  /**/
?H:.
?LINT:set d__fwalk
: see if _fwalk exists
set fwalk d__fwalk
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d__fwalk.U
No license file was found, but licenses were detected in source scan.

```
# $Id: errnolist.sh,v 3.0.1.1 1994/01/24 14:00:00 ram Exp ram $
#
#  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
#
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#  as specified in the README file that comes with the distribution.
#  You may reuse parts of this distribution only within the terms of
#  that same Artistic Licence; a copy of which may be found at the root
#  of the source tree for dist 4.0.
#
# Original Author: Harlan Stenn <harlan@mumps.pfcs.com>
#
# $Log: errnolist.sh,v $
# Revision 3.0.1.1  1994/01/24  14:00:00  ram
# patch16: changed top ln-style config.sh lookup into test-style one
#
# Revision 3.0  1993/08/18  12:04:36  ram
# Baseline for dist 3.0 netwide release.
#

case $CONFIG in
")
 if test -f config.sh; then TOP=.;
 elif test -f ../config.sh; then TOP=..;
 elif test -f ../../config.sh; then TOP=../..;
 elif test -f ../../../config.sh; then TOP=../../..;
 elif
 test -f ../../../../config.sh; then TOP=../../../..;
 else
  echo "Can't find config.sh."; exit 1
 fi
 . $TOP/config.sh
 ;;
esac
case "$0" in
*/*) cd `expr X$0 : 'X\(.*\)/'` ;;
esac
case "$errnolistc" in
") ;;
*)
 echo "Making $errnolistc ..."
 awk -f errnolist.a < /usr/include/sys/errno.h > $errnolistc
 echo "It would be a good idea to make sure that $errnolistc is correct."
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/lib/errnolist.SH
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: floatsize.U,v 3.0.1.1 1994/10/29 16:17:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: floatsize.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:17:09  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:floatsize: cat rm Myread Compile run
?MAKE: -pick add $@ %<
?S:floatsize:
?S: This variable contains the value of the FLOATSIZE symbol, which
?S: indicates to the C program how many bytes there are in a float.
?S:.
?C:FLOATSIZE:
?C: This
 symbol contains the size of a float, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define FLOATSIZE $floatsize  /**/
?H:.
?F:!try
: check for length of float
echo " "
case "$floatsize" in
")
 echo "Checking to see how big your floating point numbers are..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
   printf("%d\n", (int)sizeof(float));
   exit(0);
```

```
}
EOCP
 set try
 if eval $compile_ok; then
  floatsize=`$run ./try`
 else
  dflt='4'
  echo "(I can't seem to compile the test program.  Guessing...)"
  rp="What is the size of a floating point number (in bytes)?"
  . ./myread
  floatsize="$ans"
 fi
 ;;
esac
$rm -f try.c try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/floatsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:uidsize: Myread Typedef uidtype Compile run i_stdlib
?MAKE: -pick add $@ %<
?S:uidsize:
?S: This variable contains the size of a uidtype in bytes.
?S:.
?C:Uid_t_size:
?C: This symbol holds the size of a Uid_t in bytes.
?C:.
?H:#define Uid_t_size $uidsize  /* UID size */
?H:.
?T:yyy zzz
?F:!try
: Check size of UID
echo " "
case "$uidtype" in
*_t) zzz="$uidtype" ;;
*)   zzz="uid"  ;;
esac
```

```
echo "Checking the size of $zzz..." >&4
cat > try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include
 <stdlib.h>
#endif
int main() {
   printf("%d\n", (int)sizeof($uidtype));
   exit(0);
}
EOCP
set try
if eval $compile_ok; then
 yyy=`$run ./try`
 case "$yyy" in
 ") uidsize=4
  echo "(I can't execute the test program--guessing $uidsize.)" >&4
  ;;
 *) uidsize=$yyy
  echo "Your $zzz is $uidsize bytes long."
  ;;
 esac
else
 uidsize=4
 echo "(I can't compile the test program--guessing $uidsize.)" >&4
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/uidsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sunmath.U,v $
?RCS:
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?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sunmath: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sunmath:
?S: This variable conditionally defines the I_SUNMATH symbol, and indicates
?S: whether a C program should include <sunmath.h>.
?S:.
```

```
?C:I_SUNMATH:
?C: This symbol, if defined, indicates that <sunmath.h> exists and
?C: should be included.
?C:.
?H:#$i_sunmath I_SUNMATH  /**/
?H:.
?LINT:set i_sunmath
: see if this is a sunmath.h system
set sunmath.h i_sunmath
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_sunmath.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setlocale.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_setlocale.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  06:57:51  ram
?RCS: patch30: created
?RCS:
?MAKE:d_setlocale: Inlibc
?MAKE: -pick add $@ %<
?S:d_setlocale:
?S: This variable conditionally defines HAS_SETLOCALE if setlocale() is
?S: available to handle locale-specific ctype implementations.
?S:.
?C:HAS_SETLOCALE:
?C: This symbol, if defined, indicates that the setlocale
 routine is
?C: available to handle locale-specific ctype implementations.
?C:.
?H:#$d_setlocale HAS_SETLOCALE /**/
?H:.
?LINT:set d_setlocale
: see if setlocale exists
set setlocale d_setlocale
```

```
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setlocale.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2009 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getaddrinfo: Inlibc
?MAKE: -pick add $@ %<
?S:d_getaddrinfo:
?S: This variable conditionally defines the HAS_GETADDRINFO symbol,
?S: which indicates to the C program that the getaddrinfo() function
?S: is available.
?S:.
?C:HAS_GETADDRINFO:
?C: This symbol, if defined, indicates that the getaddrinfo() function
?C: is available for use.
?C:.
?H:#$d_getaddrinfo HAS_GETADDRINFO  /**/
?H:.
?LINT:set d_getaddrinfo
: see if getaddrinfo exists
set getaddrinfo d_getaddrinfo
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_getaddrinfo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:usesocks: Myread Oldconfig Setvar
?MAKE: -pick add $@ %<
?Y:TOP
?S:usesocks:
```

```
?S: This variable conditionally defines the USE_SOCKS symbol,
?S: and indicates that Perl should be built to use SOCKS.
?S:.
?C:USE_SOCKS:
?C: This symbol, if defined, indicates that Perl should
?C: be built to use socks.
?C:.
?H:?%<:#ifndef USE_SOCKS
?H:?%<:#$usesocks USE_SOCKS  /**/
?H:?%<:#endif
?H:.
?LINT:set usesocks
?INIT:: set usesocks on the Configure command line to enable socks.
: Check is we will use socks
?X: We should really have some explanatory text here, and some
?X: automatic setting of sensible defaults.
case "$usesocks" in
$define|true|[yY]*) dflt='y';;
*) dflt='n';;
esac
cat <<EOM

Perl can be built to
 use the SOCKS proxy protocol library.  To do so,
Configure must be run with -Dusesocks.  If you use SOCKS you also need
to use the PerlIO abstraction layer, this will be implicitly selected.

If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp='Build Perl for SOCKS?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*)      val="$undef" ;;
esac
set usesocks
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/usesocks.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_log1p: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_log1p:
?S: This variable conditionally defines the HAS_LOG1P symbol, which
?S: indicates to the C program that the logp1() routine is available
?S: to compute log(1 + x) for values of x close to zero.
?S:.
?C:HAS_LOG1P:
?C: This symbol, if defined, indicates that the log1p routine is
?C: available to do the logarithm of 1 plus argument function.
?C:.
?H:#$d_log1p HAS_LOG1P  /**/
?H:.
?LINT:set d_log1p
: see if log1p exists
set log1p d_log1p
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_log1p.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_dlerror.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_dlerror.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  13:52:49  ram
?RCS: patch56: force compile-link test since symbol might lie in crt0.o (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:11:23  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_dlerror: Inlibc runnm
?MAKE: -pick add $@ %<
?S:d_dlerror:
?S: This variable conditionally defines the HAS_DLERROR symbol, which
?S: indicates
 to the C program that the dlerror() routine is available.
?S:.
?C:HAS_DLERROR :
```

```
?C: This symbol, if defined, indicates that the dlerror routine is
?C: available to return a string describing the last error that
?C: occurred from a call to dlopen(), dlclose() or dlsym().
?C:.
?H:#$d_dlerror HAS_DLERROR /**/
?H:.
?T: xxx_runnm
?LINT:set d_dlerror
?X: We don't permanently change runnm, but we do temporarily.
?LINT: change runnm
: see if dlerror exists
?X: On NetBSD and FreeBSD, dlerror might be available, but it is in
?X: /usr/lib/crt0.o, not in any of the libraries.  Therefore, do not
?X: use the nm extraction, but use a real compile and link test instead.
xxx_runnm="$runnm"
runnm=false
set dlerror d_dlerror
eval $inlibc
runnm="$xxx_runnm"
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_dlerror.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Hasproto.U $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X: This unit generates a $hasproto string that is used internally
?X: by Configure to check if this system has a prototype for a
?X: particular function
?X:
?X: To use it, say something like:
?X:  set d_getnetent_proto getnetent $i_netdb netdb.h
?X:  eval $hasproto
?X: Or, for more complicated sets of headers, do something like
?X: hdrs="$define sys/types.h
?X:  $i_systime sys/time.h
?X:  $i_sysselct sys/select.h
?X:  $i_netdb netdb.h"
?X: set d_getnetent_proto getnetent $hdrs
?X: eval $hasproto
?X:
?X: There is also an 'escape' hatch built in.  If you have a pair
```

```
?X: of args   'literal 'stuff' then 'stuff' gets included literally
?X: into the test program.  See Protochk.U for more details.
?X:
?MAKE:Hasproto:
 Setvar cppstdin cppflags cppminus contains rm_try test
?MAKE: -pick add $@ %<
?T:func varname
?F:!try.c
?V:hasproto
: Define hasproto macro for Configure internal use
hasproto='varname=$1; func=$2; shift; shift;
while $test $# -ge 2; do
 case "$1" in
 $define) echo "#include <$2>";;
 literal) echo "$2" ;;
 esac ;
   shift 2;
done > try.c;
$cppstdin $cppflags $cppminus < try.c > tryout.c 2>/dev/null;
if $contains "$func.*(" tryout.c >/dev/null 2>&1; then
 echo "$func() prototype found.";
 val="$define";
else
 echo "$func() prototype NOT found.";
 val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try tryout.c'
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/Hasproto.U
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```
?RCS: $Id: d_brokstat.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_brokstat.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:30:53  ram
?RCS: patch61: created
```

```
?RCS:
?MAKE:d_brokstat: cat contains cppstdin cppminus +cppflags rm Setvar
?MAKE: -pick add $@ %<
?S:d_brokstat:
?S: This variable conditionally defines STAT_MACROS_BROKEN if some
?S: of the S_IS*() macros from <sys/stat.h> give false positive on
?S: regular files.
?S:.
?C:STAT_MACROS_BROKEN:
?C: This symbol, if defined, indicates that the S_IS*() stat macros
?C: such
 as S_ISBLK() give false positive and are thus unusable.
?C: Your best bet is then to supply your own set.
?C:.
?H:#$d_brokstat STAT_MACROS_BROKEN  /**/
?H:.
?F:!try.c !try
?LINT:set d_brokstat
?LINT:usefile try
?X: This test inspired by autoconf -- RAM, 28/02/97
: are stat macros sane?
echo " "
echo "Checking whether your stat() macros are broken..."
$cat >try.c <<'EOC'
#include <sys/types.h>
#include <sys/stat.h>

#if defined(S_ISBLK) && defined(S_IFDIR)
#if S_ISBLK(S_IFDIR)
Broken
#endif
#endif

#if defined(S_ISBLK) && defined(S_IFCHR)
#if S_ISBLK(S_IFCHR)
Broken
#endif
#endif

#if defined(S_ISLNK) && defined(S_IFREG)
#if S_ISLNK(S_IFREG)
Broken.
#endif
#endif

#if defined(S_ISSOCK) && defined(S_IFREG)
#if S_ISSOCK(S_IFREG)
Broken.
```

```
#endif
#endif
EOC
$cppstdin $cppflags $cppminus <try.c 2>/dev/null >try
if $contains Broken try >/dev/null 2>&1; then
 echo "Alas, they are.  I'll use my own macro set then." >&4
 val="$define"
else
 echo "Nope, working just fine." >&4
 val="$undef"
fi
$rm
 -f try try.c
set d_brokstat
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_brokstat.U
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```
?RCS: Copyright (c) 2016-2016, H.Merijn Brand
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_gai_strerror: Compile cat rm_try run Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_gai_strerror:
?S: This variable conditionally defines the HAS_GAI_STRERROR symbol
?S: if the gai_strerror() routine is available and can be used to
?S: translate error codes returned by getaddrinfo() into human
?S: readable strings.
?S:.
?C:HAS_GAI_STRERROR:
?C: This symbol, if defined, indicates that the gai_strerror routine
?C: is available to translate error codes returned by getaddrinfo()
?C: into human readable strings.
?C:.
?H:#$d_gai_strerror
 HAS_GAI_STRERROR /**/
?H:.
?F:!try
?LINT: set d_gai_strerror
: look for gai_strerror
```

```
echo " "
$cat >try.c <<'EOCP'
#include <sys/types.h>
#include <sys/socket.h>
#include <netdb.h>
int main ()
{
   return (gai_strerror (0) ? 0 : 1);
   }
EOCP
set try
?X: if $cc $ccflags $ldflags -o try try.c $libs >/dev/null 2>&1 ; then
val="$undef"
if eval $compile; then
   `$run ./try`
   case "$?" in
 0)  echo "A working gai_strerror() found." >&4
     val="$define" ;;
 *)  echo "gai_strerror() found, but it doesn't work" >&4
     ;;
 esac
else
   echo "gai_strerror() NOT found." >&4
   fi
set d_gai_strerror
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_gai_strerror.U
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```
?RCS: $Id: d_strerror_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_strerror_r strerror_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads extern_C
?MAKE: -pick add $@ %<
?S:d_strerror_r:
?S: This variable conditionally defines the HAS_STRERROR_R symbol,
?S: which indicates to the C program that the strerror_r()
?S: routine is available.
```

```
?S:.
?S:strerror_r_proto:
?S: This variable encodes the prototype of strerror_r.
?S: It is zero if d_strerror_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_strerror_r
?S: is defined.
?S:.
?C:HAS_STRERROR_R:
?C: This symbol, if defined, indicates that the strerror_r routine
?C: is available to strerror
 re-entrantly.
?C:.
?C:STRERROR_R_PROTO:
?C: This symbol encodes the prototype of strerror_r.
?C: It is zero if d_strerror_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_strerror_r
?C: is defined.
?C:.
?H:#$d_strerror_r HAS_STRERROR_R /**/
?H:#define STRERROR_R_PROTO $strerror_r_proto /**/
?H:.
?T:try hdrs d_strerror_r_proto
: see if strerror_r exists
set strerror_r d_strerror_r
eval $inlibc
case "$d_strerror_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h define string.h"
 case "$d_strerror_r_proto:$usethreads" in
 ":define") d_strerror_r_proto=define
  set d_strerror_r_proto strerror_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_strerror_r_proto" in
 define)
 case "$strerror_r_proto" in
 "|0) try='int strerror_r(int, char*, size_t);'
 ./protochk "$extern_C $try" $hdrs && strerror_r_proto=I_IBW ;;
 esac
 case "$strerror_r_proto" in
 "|0) try='int strerror_r(int, char*, int);'
 ./protochk "$extern_C $try" $hdrs && strerror_r_proto=I_IBI
 ;;
 esac
 case "$strerror_r_proto" in
 "|0) try='char* strerror_r(int, char*, size_t);'
 ./protochk "$extern_C $try" $hdrs && strerror_r_proto=B_IBW ;;
```

```
 esac
 case "$strerror_r_proto" in
 "|0) d_strerror_r=undef
  strerror_r_proto=0
  echo "Disabling strerror_r, cannot determine prototype." >&4 ;;
 * ) case "$strerror_r_proto" in
  REENTRANT_PROTO*) ;;
  *) strerror_r_proto="REENTRANT_PROTO_$strerror_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "strerror_r has no prototype, not using it." >&4 ;;
  esac
  d_strerror_r=undef
  strerror_r_proto=0
  ;;
 esac
 ;;
*) strerror_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_strerror_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sysconf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_sysconf.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:15:57  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_sysconf: Inlibc
?MAKE: -pick add $@ %<
?S:d_sysconf:
```

```
?S: This variable conditionally defines the HAS_SYSCONF symbol, which
?S: indicates to the C program that the sysconf() routine is available
?S: to determine system related limits and options.
?S:.
?C:HAS_SYSCONF:
?C: This
 symbol, if defined, indicates that sysconf() is available
?C: to determine system related limits and options.
?C:.
?H:#$d_sysconf HAS_SYSCONF /**/
?H:.
?LINT:set d_sysconf
: see if sysconf exists
set sysconf d_sysconf
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sysconf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: n.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: n.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:n c: contains
?MAKE: -pick add $@ %<
?S:n:
?S: This variable contains the -n flag if that is what causes the echo
?S: command to suppress newline.  Otherwise it is null.  Correct usage is
?S:     $echo $n "prompt for a question: $c".
?S:.
?S:c:
?S: This variable contains the \c string if that is what causes the echo
?S: command to suppress newline.
  Otherwise it is null.  Correct usage is
?S:     $echo $n "prompt for a question: $c".
?S:.
```

```
: first determine how to suppress newline on echo command
echo " "
echo "Checking echo to see how to suppress newlines..."
(echo "hi there\c" ; echo " ") >.echotmp
if $contains c .echotmp >/dev/null 2>&1 ; then
 echo "...using -n."
 n='-n'
 c=''
else
 cat <<'EOM'
...using \c
EOM
 n=''
 c='\c'
fi
echo $n "The star should be here-->$c"
echo '*'
rm -f .echotmp
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/n.U
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```
?RCS: $Id: d_locconv.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_locconv.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:14:11  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_locconv: Inlibc
?MAKE: -pick add $@ %<
?S:d_locconv:
?S: This variable conditionally defines HAS_LOCALECONV if localeconv() is
?S: available for numeric and monetary formatting conventions.
?S:.
?C:HAS_LOCALECONV:
?C: This symbol, if defined, indicates that the localeconv
```

```
 routine is
?C: available for numeric and monetary formatting conventions.
?C:.
?H:#$d_locconv HAS_LOCALECONV /**/
?H:.
?LINT:set d_locconv
: see if localeconv exists
set localeconv d_locconv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_locconv.U
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```
?RCS: $Id: d_getsent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS:
?RCS: $Log: d_getsent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getsent: Inlibc
?MAKE: -pick add $@ %<
?S:d_getsent:
?S: This variable conditionally defines HAS_GETSERVENT if getservent() is
?S: available to look up network services in some data base or another.
?S:.
?C:HAS_GETSERVENT:
?C: This symbol, if defined, indicates that the getservent() routine is
?C: available to look up network services in some
 data base or another.
?C:.
?H:#$d_getsent HAS_GETSERVENT  /**/
?H:.
?LINT:set d_getsent
: see if getservent exists
set getservent d_getsent
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_getsent.U
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```
?RCS: $Id: i_bfd.U,v $
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_bfd: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_bfd:
?S: This variable conditionally defines the I_BFD symbol, and
?S: indicates whether a C program can include <bfd.h>.
?S:.
?C:I_BFD:
?C: This symbol, if defined, indicates that <bfd.h> exists and
?C: can be included.
?C:.
?H:#$i_bfd I_BFD  /**/
?H:.
?LINT:set i_bfd
: see if this is a bfd.h system
set bfd.h i_bfd
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_bfd.U
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```
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_snprintf_l d_vsnprintf_l : Inlibc d_snprintf d_vsnprintf
?MAKE: -pick add $@ %<
?S:d_snprintf_l:
?S: This variable conditionally defines the HAS_SNPRINTF_L symbol, which
?S: indicates to the C program that the snprintf_l () library function
?S: is available.
?S:.
```

```
?S:d_vsnprintf_l:
?S: This variable conditionally defines the HAS_VSNPRINTF_L symbol, which
?S: indicates to the C program that the vsnprintf_l () library function
?S: is available.
?S:.
?C:HAS_SNPRINTF_L:
?C: This symbol, if defined, indicates that the snprintf_l () library
?C: function
 is available for use.
?C:.
?C:HAS_VSNPRINTF_L:
?C: This symbol, if defined, indicates that the vsnprintf_l () library
?C: function is available for use.
?C:.
?H:#$d_snprintf_l HAS_SNPRINTF_L /**/
?H:#$d_vsnprintf_l HAS_VSNPRINTF_L /**/
?H:.
: see if snprintf_l exists
set snprintf_l d_snprintf_l
eval $inlibc

: see if vsnprintf_l exists
set vsnprintf_l d_vsnprintf_l
eval $inlibc

case "$d_snprintf-$d_vsnprintf-$d_snprintf_l-$d_vsnprintf_l" in
"$define-$define-$define-$define")
   ;;
*) echo "(These require the basic snprintf and vsnprintf to also be available, which they aren't"
 d_snprintf_l="$undef"
 d_vsnprintf_l="$undef"
   ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_snprintf_l.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fmax: Inlibc
?MAKE: -pick add $@ %<
?S:d_fmax:
?S: This variable conditionally defines the HAS_FMAX symbol, which
?S: indicates to the C program that the fmax() routine is available.
?S:.
```

```
?C:HAS_FMAX:
?C: This symbol, if defined, indicates that the fmax routine is
?C: available to do the maximum function.
?C:.
?H:#$d_fmax HAS_FMAX  /**/
?H:.
?LINT:set d_fmax
: see if fmax exists
set fmax d_fmax
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fmax.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:selectminbits: Compile cat rm_try Oldconfig d_select \
 i_time i_systime i_systimek i_sysselct selecttype d_socket \
 byteorder Myread Setvar run i_stdlib ptrsize
?MAKE: -pick add $@ %<
?S:selectminbits:
?S: This variable holds the minimum number of bits operated by select.
?S: That is, if you do select(n, ...), how many bits at least will be
?S: cleared in the masks if some activity is detected.  Usually this
?S: is either n or 32*ceil(n/32), especially many little-endians do
?S: the latter.  This is only useful if
 you have select(), naturally.
?S:.
?C:SELECT_MIN_BITS:
?C: This symbol holds the minimum number of bits operated by select.
?C: That is, if you do select(n, ...), how many bits at least will be
?C: cleared in the masks if some activity is detected.  Usually this
?C: is either n or 32*ceil(n/32), especially many little-endians do
?C: the latter.  This is only useful if you have select(), naturally.
?C:.
?H:#define SELECT_MIN_BITS $selectminbits /**/
?H:.
?T:bits
```

```
?T:safebits
?F:!try
: check for the select 'width'
case "$selectminbits" in
") safebits=`expr $ptrsize \* 8`
   case "$d_select" in
 $define)
  $cat <<EOM

Checking to see on how many bits at a time your select() operates...
EOM
  $cat >try.c <<EOCP
#include <sys/types.h>
#$i_time I_TIME
#$i_systime I_SYS_TIME
#$i_systimek I_SYS_TIME_KERNEL
#ifdef I_TIME
#   include <time.h>
#endif
#ifdef I_SYS_TIME
#   ifdef I_SYS_TIME_KERNEL
# define KERNEL
#   endif
#   include <sys/time.h>
#   ifdef I_SYS_TIME_KERNEL
# undef KERNEL
#   endif
#endif
#$i_sysselct
 I_SYS_SELECT
#ifdef I_SYS_SELECT
#include <sys/select.h>
#endif
#$d_socket HAS_SOCKET
#ifdef HAS_SOCKET
#   include <sys/socket.h> /* Might include <sys/bsdtypes.h> */
#endif
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
$selecttype b;
#define S sizeof(*(b))
#define MINBITS 64
#define NBYTES (S * 8 > MINBITS ? S : MINBITS/8)
#define NBITS  (NBYTES * 8)
int main() {
```

```
  char *s = (char *)malloc(NBYTES);
  struct timeval t;
  int i;
  FILE* fp;
  int fd;

  if (!s)
 exit(1);
  fclose(stdin);
  fp = fopen("try.c", "r");
  if (fp == 0)
    exit(2);
  fd = fileno(fp);
  if (fd < 0)
    exit(3);
  b = ($selecttype)s;
  for (i = 0; i < NBITS; i++)
 FD_SET(i, b);
  t.tv_sec  = 0;
  t.tv_usec = 0;
  select(fd + 1, b, 0, 0, &t);
  for (i = NBITS - 1; i > fd && FD_ISSET(i, b); i--);
  free(s);
  printf("%d\n", i + 1);
  return 0;
}
EOCP
  set try
  if eval $compile_ok; then
   selectminbits=`$run
 ./try 2>/dev/null`
   case "$selectminbits" in
   ") cat >&4 <<EOM
Cannot figure out on how many bits at a time your select() operates.
I'll play safe and guess it is $safebits bits.
EOM
    selectminbits=$safebits
    bits="$safebits bits"
    ;;
   1) bits="1 bit" ;;
   *) bits="$selectminbits bits" ;;
   esac
   echo "Your select() operates on $bits at a time." >&4
  else
   rp='What is the minimum number of bits your select() operates on?'
   case "$byteorder" in
   12345678) dflt=64 ;;
   1234)  dflt=32 ;;
```

```
   *)  dflt=1 ;;
   esac
   . ./myread
   val=$ans
   selectminbits="$val"
  fi
  $rm_try
  ;;
 *) : no select, so pick a harmless default
  selectminbits=$safebits
  ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/selectminbits.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysmode.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysmode: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysmode:
?S: This variable conditionally defines the I_SYSMODE symbol,
?S: and indicates whether a C program should include <sys/mode.h>.
?S:.
?C:I_SYSMODE:
?C: This symbol, if defined, indicates that <sys/mode.h> exists and
?C: should be included.
?C:.
?H:#$i_sysmode I_SYSMODE  /**/
?H:.
?LINT:set i_sysmode
: see if this is a sys/mode.h system
set sys/mode.h i_sysmode
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_sysmode.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_sendmsg: Inlibc
?MAKE: -pick add $@ %<
?S:d_sendmsg:
?S: This variable conditionally defines the HAS_SENDMSG symbol, which
?S: indicates to the C program that the sendmsg() routine is available.
?S:.
?C:HAS_SENDMSG:
?C: This symbol, if defined, indicates that the sendmsg routine is
?C: available to send structured socket messages.
?C:.
?H:#$d_sendmsg HAS_SENDMSG  /**/
?H:.
?LINT:set d_sendmsg
: see if sendmsg exists
set sendmsg d_sendmsg
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_sendmsg.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: errnolist.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:48:01  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: likewise for .o replaced by $_o
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:10:54  ram
?RCS: patch16: created
```

```
?RCS:
?MAKE:errnolist errnolist_SH errnolist_a errnolist_c errnolist_o: cat +cc \
 +ccflags +libs +d_sysernlst _a _o
?MAKE: -pick add $@ %<
?S:errnolist:
?S: This variable holds the base name of a file containing the
?S: definition of the sys_errnolist
 array, if the C library
?S: doesn't provide it already.  Otherwise, its value is empty.
?S: The following lines should be included in your Makefile.SH:
?S:
?S:  case "$errnolist" in
?S:  ") ;;
?S:  *)
?S:   $spitshell >>Makefile <<!GROK!THIS!
?S:  $errnolist_c: $errnolist_SH $errnolist_a
?S:   sh ./$errnolist_SH
?S:
?S:  !GROK!THIS!
?S:   ;;
?S:  esac
?S:
?S: You may define the 'errnolist' variable in your Myinit.U if you
?S: wish to override its default value "errnolist".
?S:.
?S:errnolist_SH:
?S: This is the name of a file which will generate errnolistc.
?S:.
?S:errnolist_a:
?S: This is the name of the awk script called by errnolist_SH.
?S:.
?S:errnolist_c:
?S: This is the name of a generated C file which provides the
?S: definition of the sys_errnolist array.
?S:.
?S:errnolist_o:
?S: This is the name of the object file which provides the
?S: definition of the sys_errnolist array, if the C library
?S: doesn't provide it already.  Otherwise, its value is empty.
?S:.
?INIT:errnolist=errnolist
:
 check for sys_errnolist
@if d_sysernlst || HAS_SYS_ERRNOLIST
case "$d_sysernlst" in
"$define")
   errnolist=''
   errnolist_SH=''
```

```
   errnolist_a="
   errnolist_c="
   errnolist_o="
 ;;
*)
 echo " "
 echo "I'll make sure your Makefile provides sys_errnolist in $errnolist.c"
   errnolist_SH=$errnolist.SH
   errnolist_a=$errnolist$_a
   errnolist_c=$errnolist.c
   errnolist_o=$errnolist$_o
 ;;
esac
@else
echo " "
$cat <<EOM
Checking to see if your C library provides us with sys_errnolist[]...
EOM
$cat >errnolist.c <<'EOCP'
extern char *sys_errnolist[];
int main() {
   char *p0 = sys_errnolist[0];
   char *p1 = sys_errnolist[1];

   return (p0 == p1); /* Make sure they're not optimized away */
}
EOCP
if $cc $ccflags -o errnolist errnolist.c $libs >/dev/null 2>&1 ; then
   echo "It does."
   errnolist="
   errnolist_SH="
   errnolist_a="
   errnolist_c="
   errnolist_o="
else
 echo "I'll make sure your Makefile provides sys_errnolist in $errnolist.c"

   errnolist_SH=$errnolist.SH
   errnolist_a=$errnolist$_a
   errnolist_c=$errnolist.c
   errnolist_o=$errnolist$_o
fi
@end
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/errnolist.U

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```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_volatile.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:08:49  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0.1.1  1993/09/09  11:49:51  ram
?RCS: patch9: volatile definition was swapped over with undef
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_volatile: cat +cc +ccflags rm_try Setvar
?MAKE: -pick add $@ %<
?S:d_volatile:
?S: This variable conditionally defines the HASVOLATILE symbol, which
?S: indicates
 to the C program that this C compiler knows about the
?S: volatile declaration.
?S:.
?C:HASVOLATILE ~ %<:
?C: This symbol, if defined, indicates that this C compiler knows about
?C: the volatile declaration.
?C:.
?H:?%<:#$d_volatile HASVOLATILE /**/
?H:?%<:#ifndef HASVOLATILE
?H:?%<:#define volatile
?H:?%<:#endif
?H:.
?W:%<:volatile
?LINT:set d_volatile
?LINT:known volatile
: check for volatile keyword
echo " "
echo 'Checking to see if your C compiler knows about "volatile"...' >&4
$cat >try.c <<'EOCP'
int main()
{
```

```
?X:
?X: The following seven lines added by Bill Campbell <billc@sierra.com>
?X: detect that MIPS compilers do not handle volatile in all situations.
?X:
 typedef struct _goo_struct goo_struct;
 goo_struct * volatile goo = ((goo_struct *)0);
 struct _goo_struct {
  long long_int;
  int reg_int;
  char char_var;
 };
 typedef unsigned short foo_t;
 char *volatile foo;
 volatile int bar;
 volatile foo_t blech;
 foo = foo;
}
EOCP
if $cc -c $ccflags try.c >/dev/null
 2>&1 ; then
 val="$define"
 echo "Yup, it does."
else
 val="$undef"
 echo "Nope, it doesn't."
fi
set d_volatile
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_volatile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: patchlevel.U,v 3.0.1.1 1997/02/28 16:18:41 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: patchlevel.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:18:41  ram
```

```
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:patchlevel revision version subversion \
 perl_patchlevel version_patchlevel_string \
 api_revision api_version api_subversion api_versionstring: \
 package test rsrc echo awk osname
?MAKE: -pick
 add $@ %<
?S:revision:
?S: The value of revision comes from the patchlevel.h file.
?S: In a version number such as 5.6.1, this is the "5".
?S: In patchlevel.h, this is referred to as "PERL_REVISION".
?S:.
?S:patchlevel:
?S: The patchlevel level of this package.
?S: The value of patchlevel comes from the patchlevel.h file.
?S: In a version number such as 5.6.1, this is the "6".
?S: In patchlevel.h, this is referred to as "PERL_VERSION".
?S:.
?S:subversion:
?S: The subversion level of this package.
?S: The value of subversion comes from the patchlevel.h file.
?S: In a version number such as 5.6.1, this is the "1".
?S: In patchlevel.h, this is referred to as "PERL_SUBVERSION".
?S: This is unique to perl.
?S:.
?S:version:
?S: The full version number of this package, such as 5.6.1 (or 5_6_1).
?S: This combines revision, patchlevel, and subversion to get the
?S: full version number, including any possible subversions.
?S: This is suitable for use as a directory name, and hence is
?S: filesystem
 dependent.
?S:.
?S:api_revision:
?S: The three variables, api_revision, api_version, and
?S: api_subversion, specify the version of the oldest perl binary
?S: compatible with the present perl.  In a full version string
?S: such as '5.6.1', api_revision is the '5'.
?S: Prior to 5.5.640, the format was a floating point number,
?S: like 5.00563.
?S:
?S: perl.c:incpush() and lib/lib.pm will automatically search in
?S: $sitelib/.. for older directories back to the limit specified
?S: by these api_ variables.  This is only useful if you have a
```

```
?S: perl library directory tree structured like the default one.
?S: See INSTALL for how this works.  The versioned site_perl
?S: directory was introduced in 5.005, so that is the lowest
?S: possible value.  The version list appropriate for the current
?S: system is determined in inc_version_list.U.
?S:
?S: XXX To do:  Since compatibility can depend on compile time
?S: options (such as bincompat, longlong, etc.) it should
?S: (perhaps) be set by
 Configure, but currently it isn't.
?S: Currently, we read a hard-wired value from patchlevel.h.
?S: Perhaps what we ought to do is take the hard-wired value from
?S: patchlevel.h but then modify it if the current Configure
?S: options warrant.  patchlevel.h then would use an #ifdef guard.
?S:.
?S:api_version:
?S: The three variables, api_revision, api_version, and
?S: api_subversion, specify the version of the oldest perl binary
?S: compatible with the present perl.  In a full version string
?S: such as '5.6.1', api_version is the '6'.  See api_revision for
?S: full details.  As a special case, 5.5.0 is rendered in the
?S: old-style as 5.005.  (In the 5.005_0x maintenance series,
?S: this was the only versioned directory in $sitelib.)
?S:.
?S:api_subversion:
?S: The three variables, api_revision, api_version, and
?S: api_subversion, specify the version of the oldest perl binary
?S: compatible with the present perl.  In a full version string
?S: such as '5.6.1', api_subversion is the
 '1'.  See api_revision for
?S: full details.
?S:.
?S:api_versionstring:
?S: This variable combines api_revision, api_version, and
?S: api_subversion in a format such as 5.6.1 (or 5_6_1) suitable
?S: for use as a directory name.  This is filesystem dependent.
?S:.
?S:perl_patchlevel:
?S: This is the Perl patch level, a numeric change identifier,
?S: as defined by whichever source code maintenance system
?S: is used to maintain the patches; currently Perforce.
?S: It does not correlate with the Perl version numbers or
?S: the maintenance versus development dichotomy except
?S: by also being increasing.
?S:.
?S:version_patchlevel_string:
?S: This is a string combining version, subversion and
?S: perl_patchlevel (if perl_patchlevel is non-zero).
```

```
?S: It is typically something like
?S: 'version 7 subversion 1'  or
?S: 'version 7 subversion 1 patchlevel 11224'
?S: It is computed here to avoid duplication of code in myconfig.SH
?S: and lib/Config.pm.
?S:.
?LINT:extern LC_ALL
?LINT:extern LANGUAGE
:
 get the patchlevel
echo " "
echo "Getting the current patchlevel..." >&4
if $test -r $rsrc/patchlevel.h;then
 revision=`awk '/define[  ]+PERL_REVISION/ {print $3}' $rsrc/patchlevel.h`
 patchlevel=`awk '/define[  ]+PERL_VERSION/ {print $3}' $rsrc/patchlevel.h`
 subversion=`awk '/define[  ]+PERL_SUBVERSION/ {print $3}' $rsrc/patchlevel.h`
 api_revision=`awk '/define[  ]+PERL_API_REVISION/ {print $3}' $rsrc/patchlevel.h`
 api_version=`awk '/define[  ]+PERL_API_VERSION/ {print $3}' $rsrc/patchlevel.h`
 api_subversion=`awk '/define[  ]+PERL_API_SUBVERSION/ {print $3}' $rsrc/patchlevel.h`
 perl_patchlevel=`egrep ',"(MAINT|SMOKE)[0-9][0-9]*"' $rsrc/patchlevel.h|tail -1|sed 's/[^0-9]//g'`
else
 revision=0
 patchlevel=0
 subversion=0
 api_revision=0
 api_version=0
 api_subversion=0
 perl_patchlevel=0
 $echo "(You do not have patchlevel.h.  Eek.)"
fi
: Define a handy string here to avoid duplication in myconfig.SH and configpm.
version_patchlevel_string="version $patchlevel subversion $subversion"
case
 "$perl_patchlevel" in
0|") ;;
*)  perl_patchlevel=`echo $perl_patchlevel | sed 's/.* //'`
   version_patchlevel_string="$version_patchlevel_string patch $perl_patchlevel"
   ;;
esac

$echo "(You have $package $version_patchlevel_string.)"

case "$osname" in
dos|vms)
 : XXX Should be a Configure test for double-dots in filenames.
 version=`echo $revision $patchlevel $subversion | \
   $awk '{ printf "%d_%d_%d", $1, $2, $3 }'`
 api_versionstring=`echo $api_revision $api_version $api_subversion | \
```

```
   $awk '{ printf "%d_%d_%d", $1, $2, $3 }'`
 ;;
*)
 version=`echo $revision $patchlevel $subversion | \
   $awk '{ printf "%d.%d.%d", $1, $2, $3 }'`
 api_versionstring=`echo $api_revision $api_version $api_subversion | \
   $awk '{ printf "%d.%d.%d", $1, $2, $3 }'`
 ;;
esac
: Special case the 5.005_xx maintenance series, which used 5.005
: without any subversion label as a subdirectory in $sitelib
if test "${api_revision}${api_version}${api_subversion}" = "550"; then
 api_versionstring='5.005'
fi
```

Found
 in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/patchlevel.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2017-2018, H.Merijn Brand
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_accept4: Inlibc
?MAKE: -pick add $@ %<
?S:d_accept4:
?S: This variable conditionally defines HAS_ACCEPT4 if accept4() is
?S: available to accept socket connections.
?S:.
?C:HAS_ACCEPT4:
?C: This symbol, if defined, indicates that the accept4 routine is
?C: available to accept socket connections.
?C:.
?H:#$d_accept4 HAS_ACCEPT4 /**/
?H:.
?LINT:set d_accept4
: see if accept4 exists
set accept4 d_accept4
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/perl/d_accept4.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_db.U,v $
?RCS: Revision 3.0.1.3  1995/07/25  14:10:22  ram
?RCS: patch56: conditionally use const in test programs (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1995/05/12  12:14:42  ram
?RCS: patch54: extended for more intimate DB probing (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:21:50  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:i_db db_hashtype db_prefixtype: Inhdr +cc +ccflags rm_try contains cat \
  d_const
?MAKE: -pick
 add $@ %<
?S:i_db:
?S: This variable conditionally defines the I_DB symbol, and indicates
?S: whether a C program may include Berkeley's DB include file <db.h>.
?S:.
?S:db_hashtype:
?S: This variable contains the type of the hash structure element
?S: in the <db.h> header file.  In older versions of DB, it was
?S: int, while in newer ones it is u_int32_t.
?S:.
?S:db_prefixtype:
?S: This variable contains the type of the prefix structure element
?S: in the <db.h> header file.  In older versions of DB, it was
?S: int, while in newer ones it is size_t.
?S:.
?C:I_DB:
?C: This symbol, if defined, indicates to the C program that it should
?C: include Berkeley's DB include file <db.h>.
?C:.
?C:DB_Prefix_t:
```

```
?C: This symbol contains the type of the prefix structure element
?C: in the <db.h> header file.  In older versions of DB, it was
?C: int, while in newer ones it is u_int32_t.
?C:.
?C:DB_Hash_t:
?C: This symbol contains the type of the prefix structure element
?C: in the <db.h> header
 file.  In older versions of DB, it was
?C: int, while in newer ones it is size_t.
?C:.
?H:#$i_db I_DB  /**/
?H:#define DB_Hash_t $db_hashtype  /**/
?H:#define DB_Prefix_t $db_prefixtype   /**/
?H:.
?LINT:set i_db
: see if this is a db.h system
set db.h i_db
eval $inhdr

@if DB_Hash_t
case "$i_db" in
define)
 : Check the return type needed for hash
 echo " "
 echo "Checking return type needed for hash for Berkeley DB ..." >&4
 $cat >try.c <<EOCP
#$d_const HASCONST
#ifndef HASCONST
#define const
#endif
#include <sys/types.h>
#include <db.h>
u_int32_t hash_cb (ptr, size)
const void *ptr;
size_t size;
{
}
HASHINFO info;
int main()
{
 info.hash = hash_cb;
}
EOCP
 if $cc $ccflags -c try.c >try.out 2>&1 ; then
  if $contains warning try.out >>/dev/null 2>&1 ; then
   db_hashtype='int'
  else
   db_hashtype='u_int32_t'
```

```
  fi
 else
  echo "I can't seem to compile the test program." >&4
  db_hashtype=int
 fi
 $rm_try
 echo "Your version of Berkeley DB uses $db_hashtype for hash."
 ;;
*) db_hashtype=int
 ;;
esac

@end
@if
 DB_Prefix_t
case "$i_db" in
define)
 : Check the return type needed for prefix
 echo " "
 echo "Checking return type needed for prefix for Berkeley DB ..." >&4
 cat >try.c <<EOCP
#$d_const HASCONST
#ifndef HASCONST
#define const
#endif
#include <sys/types.h>
#include <db.h>
size_t prefix_cb (key1, key2)
const DBT *key1;
const DBT *key2;
{
}
BTREEINFO info;
int main()
{
 info.prefix = prefix_cb;
}
EOCP
 if $cc $ccflags -c try.c  >try.out 2>&1 ; then
  if $contains warning try.out >>/dev/null 2>&1 ; then
   db_prefixtype='int'
  else
   db_prefixtype='size_t'
  fi
 else
  echo "I can't seem to compile the test program." >&4
  db_prefixtype='int'
 fi
```

```
 $rm_try
 echo "Your version of Berkeley DB uses $db_prefixtype for prefix."
 ;;
*) db_prefixtype='int'
 ;;
esac

@end
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_db.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2017 Dagfinn Ilmari Mannsåker
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strnlen: Inlibc
?MAKE: -pick add $@ %<
?S:d_strnlen:
?S: This variable conditionally defines the HAS_STRNLEN symbol, which
?S: indicates to the C program that the strnlen () routine is available.
?S:.
?C:HAS_STRNLEN:
?C: This symbol, if defined, indicates that the strnlen () routine is
?C: available to check the length of a string up to a maximum.
?C:.
?H:#$d_strnlen HAS_STRNLEN  /**/
?H:.
?LINT:set d_strnlen
: see if strnlen exists
set strnlen d_strnlen
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strnlen.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endsent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_endsent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_endsent: Inlibc
?MAKE: -pick add $@ %<
?S:d_endsent:
?S: This variable conditionally defines HAS_ENDSERVENT if endservent() is
?S: available to close whatever was being used for service queries.
?S:.
?C:HAS_ENDSERVENT:
?C: This symbol, if defined, indicates that the endservent() routine is
?C: available to close whatever was being used for
 service queries.
?C:.
?H:#$d_endsent HAS_ENDSERVENT  /**/
?H:.
?LINT:set d_endsent
: see if endservent exists
set endservent d_endsent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_endsent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getgrps.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getgrps.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getgrps: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_getgrps:
?S: This variable conditionally defines the HAS_GETGROUPS symbol, which
?S: indicates to the C program that the getgroups() routine is available
?S: to get the list of process groups.
?S:.
?C:HAS_GETGROUPS (GETGROUPS):
?C: This symbol, if defined, indicates that the getgroups()
 routine is
?C: available to get the list of process groups.  If unavailable, multiple
?C: groups are probably not supported.
?C:.
?H:#$d_getgrps HAS_GETGROUPS  /**/
?H:.
?LINT:set d_getgrps
: see if getgroups exists
set getgroups d_getgrps
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getgrps.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pthrattrj.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_old_pthread_create_joinable old_pthread_create_joinable: \
 cat Compile rm_try Setvar usethreads i_pthread
?MAKE: -pick add $@ %<
?S:d_old_pthread_create_joinable:
?S: This variable conditionally defines pthread_create_joinable.
?S: undef if pthread.h defines PTHREAD_CREATE_JOINABLE.
?S:.
?S:old_pthread_create_joinable:
?S: This variable defines the constant to use for creating joinable
?S: (aka undetached) pthreads.  Unused if pthread.h defines
?S: PTHREAD_CREATE_JOINABLE.  If used, possible values are
?S: PTHREAD_CREATE_UNDETACHED and __UNDETACHED.
?S:.
?C:OLD_PTHREAD_CREATE_JOINABLE:
?C: This symbol, if defined, indicates how to create pthread
?C: in joinable (aka undetached)
 state.  NOTE: not defined
?C: if pthread.h already has defined PTHREAD_CREATE_JOINABLE
```

```
?C: (the new version of the constant).
?C: If defined, known values are PTHREAD_CREATE_UNDETACHED
?C: and __UNDETACHED.
?C:.
?H:#$d_old_pthread_create_joinable OLD_PTHREAD_CREATE_JOINABLE $old_pthread_create_joinable /**/
?H:.
: how to create joinable pthreads
if test "X$usethreads" = "X$define" -a "X$i_pthread" = "X$define"; then
 echo " "
 echo "Checking what constant to use for creating joinable pthreads..." >&4
 $cat >try.c <<'EOCP'
#include <pthread.h>
int main() {
   int detachstate = JOINABLE;
}
EOCP
 set try -DJOINABLE=PTHREAD_CREATE_JOINABLE
 if eval $compile; then
  echo "You seem to use PTHREAD_CREATE_JOINABLE." >&4
  val="$undef" # Yes, undef.
  set d_old_pthread_create_joinable
  eval $setvar
  val=""
  set old_pthread_create_joinable
  eval $setvar
 else
  set try -DJOINABLE=PTHREAD_CREATE_UNDETACHED
  if eval $compile; then
   echo "You seem to use PTHREAD_CREATE_UNDETACHED." >&4
   val="$define"
   set
 d_old_pthread_create_joinable
   eval $setvar
   val=PTHREAD_CREATE_UNDETACHED
   set old_pthread_create_joinable
   eval $setvar
  else
   set try -DJOINABLE=__UNDETACHED
   if eval $compile; then
    echo "You seem to use __UNDETACHED." >&4
    val="$define"
    set d_old_pthread_create_joinable
    eval $setvar
    val=__UNDETACHED
    set old_pthread_create_joinable
    eval $setvar
   else
    echo "Egads, nothing obvious found.  Guessing that you use 0." >&4
```

```
    val="$define"
    set d_old_pthread_create_joinable
    eval $setvar
    val=0
    set old_pthread_create_joinable
    eval $setvar
   fi
  fi
 fi
 $rm_try
else
   d_old_pthread_create_joinable="$undef"
   old_pthread_create_joinable=""
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_pthrattrj.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endhent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_endhent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_endhent: Inlibc
?MAKE: -pick add $@ %<
?S:d_endhent:
?S: This variable conditionally defines HAS_ENDHOSTENT if endhostent() is
?S: available to close whatever was being used for host queries.
?S:.
?C:HAS_ENDHOSTENT:
?C: This symbol, if defined, indicates that the endhostent() routine is
?C: available to close whatever was being used for host
 queries.
?C:.
?H:#$d_endhent HAS_ENDHOSTENT  /**/
?H:.
?LINT:set d_endhent
```

```
: see if endhostent exists
set endhostent d_endhent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_endhent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sitelib.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:21:35  ram
?RCS: patch61: created
?RCS:
?MAKE:sitelib sitelibexp installsitelib: afs cat Getfile \
 Oldconfig Prefixit test privlib package sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:sitelib:
?S: This variable contains the eventual value of the SITELIB symbol,
?S: which is the name of the private library for this package.  It may
?S: have a ~ on the front. It is up to the makefile to eventually create
?S: this
 directory while performing installation (with ~ substitution).
?S:.
?S:sitelibexp:
?S: This variable is the ~name expanded version of sitelib, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?S:installsitelib:
?S: This variable is really the same as sitelibexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?C:SITELIB:
?C: This symbol contains the name of the private library for this package.
?C: The library is private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.  The program
```

```
?C: should be prepared to do ~ expansion.
?C: The standard distribution will put nothing in this directory.
?C: Individual sites may place their own extensions and modules in
?C: this directory.
?C:.
?C:SITELIB_EXP:
?C: This symbol contains the ~name expanded version of SITELIB, to be used
?C: in programs that are not prepared to deal with ~ expansion
 at run-time.
?C:.
?H:#define SITELIB "$sitelib"  /**/
?H:#define SITELIB_EXP "$sitelibexp"  /**/
?H:.
?T:prog
: determine where site specific libraries go.
set sitelib sitelib
eval $prefixit
case "$sitelib" in
")
?X: remove any trailing -3.0 or other version indentification
 prog=`echo $package | $sed 's/-*[0-9.]*$//'`
 dflt="$privlib/site_$prog" ;;
*) dflt="$sitelib" ;;
esac
$cat <<EOM

The installation process will also create a directory for
site-specific extensions and modules.  Some users find it convenient
to place all local files in this directory rather than in the main
distribution directory.

EOM
fn=d~+
rp='Pathname for the site-specific library files?'
. ./getfile
if $test "X$sitelibexp" != "X$ansexp"; then
 installsitelib=''
fi
sitelib="$ans"
sitelibexp="$ansexp"
if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
private files reside from the directory in which they are installed (and from
which they are presumably copied to
 the former directory by occult means).
```

```
EOM
 case "$installsitelib" in
 ") dflt=`echo $sitelibexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installsitelib";;
 esac
 fn=de~
 rp='Where will private files be installed?'
 . ./getfile
 installsitelib="$ans"
else
 installsitelib="$sitelibexp"
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/sitelib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_srand48_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_srand48_r srand48_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_stdlib extern_C
?MAKE: -pick add $@ %<
?S:d_srand48_r:
?S: This variable conditionally defines the HAS_SRAND48_R symbol,
?S: which indicates to the C program that the srand48_r()
?S: routine is available.
?S:.
?S:srand48_r_proto:
?S: This variable encodes the prototype of srand48_r.
?S: It is zero if d_srand48_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_srand48_r
?S: is defined.
?S:.
?C:HAS_SRAND48_R:
?C: This symbol, if defined, indicates that the srand48_r routine
?C: is available to srand48 re-entrantly.
?C:.
?C:SRAND48_R_PROTO:
?C: This
 symbol encodes the prototype of srand48_r.
?C: It is zero if d_srand48_r is undef, and one of the
```

```
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_srand48_r
?C: is defined.
?C:.
?H:#$d_srand48_r HAS_SRAND48_R /**/
?H:#define SRAND48_R_PROTO $srand48_r_proto /**/
?H:.
?T:try hdrs d_srand48_r_proto
: see if srand48_r exists
set srand48_r d_srand48_r
eval $inlibc
case "$d_srand48_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_stdlib stdlib.h"
 case "$d_srand48_r_proto:$usethreads" in
 ":define") d_srand48_r_proto=define
  set d_srand48_r_proto srand48_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_srand48_r_proto" in
 define)
 case "$srand48_r_proto" in
 "|0) try='int srand48_r(long, struct drand48_data*);'
 ./protochk "$extern_C $try" $hdrs && srand48_r_proto=I_LS ;;
 esac
 case "$srand48_r_proto" in
 "|0) d_srand48_r=undef
  srand48_r_proto=0
  echo "Disabling srand48_r, cannot determine prototype." >&4 ;;
 * ) case
 "$srand48_r_proto" in
  REENTRANT_PROTO*) ;;
  *) srand48_r_proto="REENTRANT_PROTO_$srand48_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "srand48_r has no prototype, not using it." >&4 ;;
  esac
  d_srand48_r=undef
  srand48_r_proto=0
  ;;
 esac
 ;;
*) srand48_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_srand48_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: lex.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Orginal Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: lex.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:22:50  ram
?RCS: patch36: spurious single quote could cause Configure to crash
?RCS: patch36: (reported by Xavier Le Vourch <xavierl@eiffel.com>.)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:27:09  ram
?RCS: patch32: added lexflags variable for lex flags setting
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:06:01  ram
?RCS: patch23: added
 trailing blank line for metalint
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lex lexflags: Guess Myread Oldconfig flex test
?MAKE: -pick add $@ %<
?S:lex:
?S: This variable holds the name of the lexical analyser generator we
?S: want to use in the Makefile. It can be lex or flex.
?S:.
?S:lexflags:
?S: This variable holds any flags that should be passed to the lexical
?S: analyzer.  It is up to the Makefile to use it.
?S:.
: determine lexical analyser generator
case "$lex" in
")
 dflt=lex;;
*)
```

```
 dflt="$lex";;
esac
echo " "
if $test -f "$flex"; then
 rp='Which lexical analyser generator (lex or flex) shall I use?'
else
 rp='Which lexical analyser generator shall I use?'
fi
. ./myread
lex="$ans"

@if lexflags
: if using lex this will normally be useless, but flex frequently takes args
echo " "
case "$lexflags" in
") dflt='none';;
*) dflt="$lexflags";;
esac
rp="What flags should be given to $lex?"
. ./myread
case "$ans"
 in
none) lexflags=";;
*) lexflags="$ans";;
esac

@end
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/lex.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: byteorder.U,v 3.0.1.2 1997/02/28 15:24:55 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: byteorder.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:24:55  ram
?RCS: patch61: no longer ask the user if the test runs ok
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:02:58  ram
```

```
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:28  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:byteorder: cat Myread Oldconfig Loc Compile rm_try run \
 multiarch uvtype uvsize i_stdlib
?MAKE: -pick add $@ %<
?S:byteorder:
?S: This
 variable holds the byte order in a UV. In the following,
?S: larger digits indicate more significance.  The variable byteorder
?S: is either 4321 on a big-endian machine, or 1234 on a little-endian,
?S: or 87654321 on a Cray ... or 3412 with weird order !
?S:.
?C:BYTEORDER:
?C: This symbol holds the hexadecimal constant defined in byteorder,
?C: in a UV, i.e. 0x1234 or 0x4321 or 0x12345678, etc...
?C: If the compiler supports cross-compiling or multiple-architecture
?C: binaries, use compiler-defined macros to
?C: determine the byte order.
?C:.
?H:?%<:#if defined(MULTIARCH)
?H:?%<:#  ifdef __LITTLE_ENDIAN__
?H:?%<:#    if LONGSIZE == 4
?H:?%<:#      define BYTEORDER 0x1234
?H:?%<:#    else
?H:?%<:#      if LONGSIZE == 8
?H:?%<:#        define BYTEORDER 0x12345678
?H:?%<:#      endif
?H:?%<:#    endif
?H:?%<:#  else
?H:?%<:#    ifdef __BIG_ENDIAN__
?H:?%<:#      if LONGSIZE == 4
?H:?%<:#        define BYTEORDER 0x4321
?H:?%<:#      else
?H:?%<:#        if LONGSIZE
 == 8
?H:?%<:#          define BYTEORDER 0x87654321
?H:?%<:#        endif
?H:?%<:#      endif
?H:?%<:#    endif
?H:?%<:#  endif
?H:?%<:#else
?H:?%<:#define BYTEORDER 0x$byteorder /* large digits for MSB */
?H:?%<:#endif
?H:.
?T:xxx_prompt
```

```
?F:!try
: check for ordering of bytes in a UV
echo " "
case "$multiarch" in
*$define*)
 $cat <<EOM
You seem to be doing a multiarchitecture build,
skipping the byteorder check.

EOM
 byteorder='ffff'
 ;;
*)
 case "$byteorder" in
 ")
  $cat <<'EOM'
In the following, larger digits indicate more significance.  A big-endian
machine like a Pyramid or a Motorola 680?0 chip will come out to 4321. A
little-endian machine like a Vax or an Intel 80?86 chip would be 1234. Other
machines may have weird orders like 3412.  A Cray will report 87654321,
an Alpha will report 12345678. If the test program works the default is
probably right.
I'm now running the test program...
EOM
  $cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include
 <sys/types.h>
typedef $uvtype UV;
int main()
{
 int i;
 union {
  UV l;
  char c[$uvsize];
 } u;

 if ($uvsize > 4)
  u.l = (((UV)0x08070605) << 32) | (UV)0x04030201;
 else
  u.l = (UV)0x04030201;
 for (i = 0; i < $uvsize; i++)
  printf("%c", u.c[i]+'0');
 printf("\n");
```

```
 exit(0);
}
EOCP
  xxx_prompt=y
  set try
  if eval $compile && $run ./try > /dev/null; then
   dflt=`$run ./try`
   case "$dflt" in
   [1-4][1-4][1-4][1-4]|12345678|87654321)
    echo "(The test program ran ok.)"
    echo "byteorder=$dflt"
    xxx_prompt=n
   ;;
   ????|????????) echo "(The test program ran ok.)" ;;
   *) echo "(The test program didn't run right for some reason.)" ;;
   esac
  else
   dflt='4321'
   cat <<'EOM'
(I can't seem to compile the test program.  Guessing big-endian...)
EOM
  fi
  case "$xxx_prompt" in
  y)
   rp="What is the order of bytes in $uvtype?"
   . ./myread
   byteorder="$ans"
   ;;
  *) byteorder=$dflt
   ;;
  esac
  ;;
 esac
 $rm_try
 ;;
esac
```

Found in path(s):
*
 /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/byteorder.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_times.U,v 3.0.1.2 1995/07/25 14:07:50 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_times.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:07:50  ram
?RCS: patch56: typo fix, sytem -> system
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:14:00  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: What is the type returned by times() ?
?X:
?X: Force inclusion of <sys/types.h>
?X:INC: i_systypes
?MAKE:d_times clocktype:
 Csym Myread Typedef i_systimes
?MAKE: -pick add $@ %<
?S:d_times:
?S: This variable conditionally defines the HAS_TIMES symbol, which indicates
?S: that the times() routine exists.  The times() routine is normally
?S: provided on UNIX systems. You may have to include <sys/times.h>.
?S:.
?S:clocktype:
?S: This variable holds the type returned by times(). It can be long,
?S: or clock_t on BSD sites (in which case <sys/types.h> should be
?S: included).
?S:.
?C:HAS_TIMES (TIMES):
?C: This symbol, if defined, indicates that the times() routine exists.
?C: Note that this became obsolete on some systems (SUNOS), which now
?C: use getrusage(). It may be necessary to include <sys/times.h>.
?C:.
?C:Clock_t (CLOCKTYPE):
?C: This symbol holds the type returned by times(). It can be long,
?C: or clock_t on BSD sites (in which case <sys/types.h> should be
?C: included).
?C:.
?H:#$d_times HAS_TIMES  /**/
?H:#define Clock_t $clocktype /* Clock time */
?H:.
?T:val inc
: see if times exists
```

```
echo "
 "
if set times val -f d_times; eval $csym; $val; then
 echo 'times() found.' >&4
 d_times="$define"
 inc=''
 case "$i_systimes" in
 "$define") inc='sys/times.h';;
 esac
 rp="What is the type returned by times() on this system?"
 set clock_t clocktype long stdio.h sys/types.h $inc
 eval $typedef_ask
else
 echo 'times() NOT found, hope that will do.' >&4
 d_times="$undef"
?X: The following is needed for typedef (won't like an empty variable)
 clocktype='int'
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/d_times.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_semop.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_semop.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_semop: Inlibc
?MAKE: -pick add $@ %<
?S:d_semop:
?S: This variable conditionally defines the HAS_SEMOP symbol, which
?S: indicates to the C program that the semop() routine is available.
?S:.
?C:HAS_SEMOP:
?C: This symbol, if defined, indicates that the semop() routine is
?C: available to execute semaphore operations.
?C:.
```

```
?H:#$d_semop
 HAS_SEMOP  /**/
?H:.
?LINT:set d_semop
: see if semop exists
set semop d_semop
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_semop.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Warn_v7EXT.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Warn_v7EXT.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:01:42  ram
?RCS: patch36: call ./v7 explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit issues warnings to V7 sites that they are living dangerously.
?X: This unit needs to get mentioned in End.U to get included.
?X:
?MAKE:Warn_v7EXT: package Guess
?MAKE: -pick add $@ %<
: Warnings
if ./v7;
 then
 cat <<EOM

NOTE: the V7 compiler may ignore some #undefs that $package uses.  If so,
you may get messages about redefining EXT.  Some V7 compilers also have
difficulties with #defines near buffer boundaries, so beware.  You may have
to play with the spacing in some .h files, believe it or not.
EOM
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Warn_v7EXT.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sethent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_sethent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sethent: Inlibc
?MAKE: -pick add $@ %<
?S:d_sethent:
?S: This variable conditionally defines HAS_SETHOSTENT if sethostent() is
?S: available.
?S:.
?C:HAS_SETHOSTENT:
?C: This symbol, if defined, indicates that the sethostent() routine is
?C: available.
?C:.
?H:#$d_sethent HAS_SETHOSTENT  /**/
?H:.
?LINT:set d_sethent
: see if sethostent exists
set
 sethostent d_sethent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_sethent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
?MAKE:d_socks5_init: Inlibc
?MAKE: -pick add $@ %<
?S:d_socks5_init:
?S: This variable conditionally defines the HAS_SOCKS5_INIT symbol, which
?S: indicates to the C program that the socks5_init() routine is available.
?S:.
?C:HAS_SOCKS5_INIT:
?C: This symbol, if defined, indicates that the socks5_init routine is
?C: available to initialize SOCKS 5.
?C:.
?H:#$d_socks5_init HAS_SOCKS5_INIT  /**/
?H:.
?LINT:set d_socks5_init
: see if socks5_init exists
set socks5_init d_socks5_init
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_socks5_init.U
No license file was found, but licenses were detected in source scan.

```
case $CONFIG in
")
 if test -f config.sh; then TOP=.;
 elif test -f ../config.sh; then TOP=..;
 elif test -f ../../config.sh; then TOP=../..;
 elif test -f ../../../config.sh; then TOP=../../..;
 elif test -f ../../../../config.sh; then TOP=../../../..;
 else
  echo "Can't find config.sh."; exit 1
 fi
 . $TOP/config.sh
 ;;
esac
case "$0" in
*/*) cd `expr X$0 : 'X\(.*\)/'` ;;
esac
echo "Extracting makedir (with variable substitutions)"
$spitshell >makedir <<!GROK!THIS!
$startsh
# $Id: makedir.sh,v 3.0.1.1 1994/01/24 14:00:08 ram Exp ram $
#
#  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
#
#  You may redistribute only under the terms of the Artistic Licence,
#  as specified in the README file that comes with the distribution.
```

```
#  You may reuse parts of this distribution only within the terms of
#  that same Artistic Licence; a copy of which may be found at the root
#  of the source tree for dist 4.0.
#
# Original
 Author: Larry Wall <lwall@netlabs.com>
#
# $Log: makedir.sh,v $
# Revision 3.0.1.1  1994/01/24  14:00:08  ram
# patch16: changed top ln-style config.sh lookup into test-style one
#
# Revision 3.0  1993/08/18  12:04:38  ram
# Baseline for dist 3.0 netwide release.
#

export PATH || (echo "OOPS, this isn't sh.  Desperation time.  I will feed myself to sh."; sh \$0; kill \$\$)

case \$# in
 0)
   $echo "makedir pathname filenameflag"
   exit 1
   ;;
esac

: guarantee one slash before 1st component
case \$1 in
 /*) ;;
 *)  set ./\$1 \$2 ;;
esac

: strip last component if it is to be a filename
case X\$2 in
 X1) set \`$echo \$1 | $sed 's:\(.*\)/[^/]*\$:\1:'\` ;;
 *)  set \$1 ;;
esac

: return reasonable status if nothing to be created
if $test -d "\$1" ; then
   exit 0
fi

list=''
while true ; do
   case \$1 in
   */*)
 list="\$1 \$list"
 set \`echo \$1 | $sed 's:\(.*\)/:\1 :'\`
 ;;
```

```
   *)
 break
 ;;
   esac
done

set \$list

for dir do
   $mkdir \$dir >/dev/null 2>&1
done
!GROK!THIS!
$eunicefix
 makedir
chmod +x makedir
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/lib/makedir.SH
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_memccpy.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memccpy.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_memccpy: Inlibc
?MAKE: -pick add $@ %<
?S:d_memccpy:
?S: This variable conditionally defines the HAS_MEMCCPY symbol, which
?S: indicates to the C program that the memccpy() routine is available
?S: to copy a character into a block of memory.
?S:.
?C:HAS_MEMCCPY (MEMCCPY):
?C: This symbol, if defined, indicates that the memccpy routine
 is available
?C: to copy a character into a block of memory.  Otherwise you should
?C: roll your own.
?C:.
```

```
?H:#$d_memccpy HAS_MEMCCPY  /**/
?H:.
?LINT:set d_memccpy
: see if memccpy exists
set memccpy d_memccpy
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_memccpy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: ipc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: ipc.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:53  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:ipc serve_shm serve_msg serve_inet_udp serve_inet_tcp serve_unix_udp \
 serve_unix_tcp: test Myread Oldconfig d_socket d_msg d_shm d_sem
?MAKE: -pick add $@ %<
?LINT:use d_msg d_sem
?S:ipc:
?S: This variable holds the type of IPC service we'll be using.  Values
?S: include "ip", "shm", "msg", "cms" and "os9".  We don't worry about
?S: cms or os9
 here, because Configure doesn't run in those places--HMS.
?S:.
?S:serve_shm:
?S: This variable controls the definition of SERVE_SHM, which tells the
?S: C program to use USG shared memory for IPC.
?S:.
?S:serve_msg:
?S: This variable controls the definition of SERVE_MSG, which tells the
?S: C program to use USG message queues for IPC.
?S:.
?S:serve_inet_udp:
?S: This variable controls the definition of SERVE_INET_UDP, which tells
?S: the C program to enable InterNet-domain UDP support for IPC.
?S:.
```

```
?S:serve_inet_tcp:
?S: This variable controls the definition of SERVE_INET_TCP, which tells
?S: the C program to enable InterNet-domain TCP support for IPC.
?S:.
?S:serve_unix_udp:
?S: This variable controls the definition of SERVE_UNIX_UDP, which tells
?S: the C program to enable Unix-domain UDP support for IPC.
?S:.
?S:serve_unix_tcp:
?S: This variable controls the definition of SERVE_UNIX_TCP, which tells
?S: the C program to enable Unix-domain TCP support for IPC.
?S:.
?C:SERVE_SHM:
?C: If
 defined, tells the C program to use USG shared memory for IPC.
?C:.
?C:SERVE_MSG:
?C: If defined, tells the C program to use USG message queues for IPC.
?C:.
?C:SERVE_INET_UDP:
?C: If defined, tells the C program to enable InterNet-domain UDP
?C: support for IPC.
?C:.
?C:SERVE_INET_TCP:
?C: If defined, tells the C program to enable InterNet-domain TCP
?C: support for IPC.
?C:.
?C:SERVE_UNIX_UDP:
?C: If defined, tells the C program to enable Unix-domain UDP
?C: support for IPC.
?C:.
?C:SERVE_UNIX_TCP:
?C: If defined, tells the C program to enable Unix-domain TCP
?C: support for IPC.
?C:.
?H:#$serve_shm SERVE_SHM /**/
?H:#$serve_msg SERVE_MSG /**/
?H:#$serve_inet_udp SERVE_INET_UDP /**/
?H:#$serve_inet_tcp SERVE_INET_TCP /**/
?H:#$serve_unix_udp SERVE_UNIX_UDP /**/
?H:#$serve_unix_tcp SERVE_UNIX_TCP /**/
?H:.
?X: FIXME -- RAM
?INIT:serve_shm=''
?INIT:serve_msg="$undef"
?INIT:serve_inet_udp=''
?INIT:serve_inet_tcp=''
?INIT:serve_unix_udp=''
```

```
?INIT:serve_unix_tcp="
: get IPC mechanism
echo
 " "
ipc="
while $test -z "$ipc"
do
 if $test "$ipc" != "shm" -a "$d_socket" = "$define"; then
  ipc="
  if $test "$serve_inet_udp" = "$undef"; then
   dflt=n
  else
   dflt=y
  fi
  rp='Provide InterNet-domain UDP service?'
  . ./myread
  dflt="
  case "$ans" in
  n*) serve_inet_udp="$undef";;
  *)
   serve_inet_udp="$define"
   ipc='ip'
   ;;
  esac

  if $test "$serve_inet_tcp" = "$define"; then
   dflt=y
  else
   dflt=n
  fi
  rp='Provide InterNet-domain TCP service?'
  . ./myread
  dflt="
  case "$ans" in
  n*) serve_inet_tcp="$undef";;
  *)
   serve_inet_tcp="$define"
   ipc='ip'
   ;;
  esac

  if $test "$serve_unix_udp" = "$define"; then
   dflt=y
  else
   dflt=n
  fi
  rp='Provide Unix-domain UDP service?'
  . ./myread
```

```
 dflt=''
 case "$ans" in
 n*) serve_unix_udp="$undef";;
 *)
  serve_unix_udp="$define"
  ipc='ip'
  ;;
 esac

 if $test "$serve_unix_tcp" = "$define"; then
  dflt=y
 else
  dflt=n
 fi
 rp='Provide Unix-domain TCP service?'
 . ./myread
 dflt=''
 case
"$ans" in
 n*) serve_unix_tcp="$undef";;
 *)
  serve_unix_tcp="$define"
  ipc='ip'
  ;;
 esac
else
 serve_inet_udp="$undef"
 serve_inet_tcp="$undef"
 serve_unix_udp="$undef"
 serve_unix_tcp="$undef"
fi
if $test "$ipc" != "ip" -a "$d_shm" = "$define"; then
 echo "Providing USG shared memory IPC support." >&4
 serve_shm="$define"
 ipc='shm'
else
 serve_shm="$undef"
fi
if $test -z "$ipc"; then
 echo "You must select an IPC mechanism." >&4
fi
done
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/ipc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: usenm.U,v 3.0.1.1 1997/02/28 16:26:40 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: usenm.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:26:40  ram
?RCS: patch61: don't use nm with the GNU C library
?RCS: patch61: added support for Linux shared libs
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:usenm runnm nm_opt nm_so_opt: cat test Myread Oldconfig myuname grep \
 nm d_gnulibc osname egrep rsrc
?MAKE: -pick add $@ %<
?S:usenm:
?S: This variable contains 'true' or 'false' depending
 whether the
?S: nm extraction is wanted or not.
?S:.
?S:runnm:
?S: This variable contains 'true' or 'false' depending whether the
?S: nm extraction should be performed or not, according to the value
?S: of usenm and the flags on the Configure command line.
?S:.
?S:nm_opt:
?S: This variable holds the options that may be necessary for nm.
?S:.
?S:nm_so_opt:
?S: This variable holds the options that may be necessary for nm
?S: to work on a shared library but that can not be used on an
?S: archive library.  Currently, this is only used by Linux, where
?S: nm --dynamic is *required* to get symbols from an ELF library which
?S: has been stripped, but nm --dynamic is *fatal* on an archive library.
?S: Maybe Linux should just always set usenm=false.
?S:.
: see if nm is to be used to determine whether a symbol is defined or not
?X: If there is enough inquiries, it might be worth to wait for the nm
?X: extraction. Otherwise, the C compilations might be a better deal.
?X:
?X: Don't bother if we're
```

```
 using GNU libc -- skimo
?LINT:extern PASE
case "$usenm" in
")
 dflt="
 case "$d_gnulibc" in
 "$define")
  echo " "
  echo "nm probably won't work on the GNU C Library." >&4
  dflt=n
  ;;
 esac
 case "$dflt" in
 ")
  if $test "$osname" = aix -a "X$PASE" != "Xdefine" -a ! -f /lib/syscalls.exp; then
   echo " "
   echo "Whoops!  This is an AIX system without /lib/syscalls.exp!" >&4
   echo "'nm' won't be sufficient on this system." >&4
   dflt=n
  fi
  ;;
 esac
 case "$dflt" in
 ") dflt=`$egrep 'inlibc|csym' $rsrc/Configure | wc -l 2>/dev/null`
  if $test $dflt -gt 20; then
   dflt=y
  else
   dflt=n
  fi
  ;;
 esac
 ;;
*)
 case "$usenm" in
 true|$define) dflt=y;;
 *) dflt=n;;
 esac
 ;;
esac
$cat <<EOM

I can use $nm to extract the symbols from your C libraries. This
is a time consuming task which may generate huge output on the disk (up
to 3 megabytes) but that should make the symbols extraction faster. The
alternative is to skip the 'nm' extraction part and to compile a small
test
 program instead to determine whether each symbol is present. If
you have a fast C compiler and/or if your 'nm' output cannot be parsed,
```

```
this may be the best solution.

You probably shouldn't let me use 'nm' if you are using the GNU C Library.

EOM
rp="Shall I use $nm to extract C symbols from the libraries?"
. ./myread
case "$ans" in
[Nn]*) usenm=false;;
*) usenm=true;;
esac

?X: Name extraction is to be run if 'nm' usage is wanted and if no -r flag
?X: was provided to configure (in which case we simply re-use the previous
?X: values).
runnm=$usenm
case "$reuseval" in
true) runnm=false;;
esac

: nm options which may be necessary
case "$nm_opt" in
") if $test -f /mach_boot; then
  nm_opt=" # Mach
 elif $test -d /usr/ccs/lib; then
  nm_opt='-p' # Solaris (and SunOS?)
 elif $test -f /dgux; then
  nm_opt='-p' # DG-UX
 elif $test -f /lib64/rld; then
  nm_opt='-p' # 64-bit Irix
 else
  nm_opt="
 fi;;
esac

: nm options which may be necessary for shared libraries but illegal
: for archive
 libraries.  Thank you, Linux.
case "$nm_so_opt" in
") case "$myuname" in
 *linux*|gnu*)
  if $nm --help | $grep 'dynamic' > /dev/null 2>&1; then
   nm_so_opt='--dynamic'
  fi
  ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/usenm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sigsetmk.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sigsetmk.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:23  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sigsetmk: Csym Setvar
?MAKE: -pick add $@ %<
?S:d_sigsetmk:
?S: This variable conditionally defines the HAS_SIGSETMASK symbol, which
?S: indicates to the C program that the sigsetmask() routine is available
?S: to set current signal mask.
?S:.
?C:HAS_SIGSETMASK (SIGSETMASK):
?C: This symbol, if defined, indicates that the sigsetmask()
 routine is
?C: available to set current signal mask. Otherwise, you should probably
?C: emulate this by using signal(), but fear race conditions...
?C:.
?H:#$d_sigsetmk HAS_SIGSETMASK  /**/
?H:.
?LINT:set d_sigsetmk
: see if sigsetmask exists
echo " "
if set sigsetmask val -f d_sigsetmk; eval $csym; $val; then
 echo 'sigsetmask() found.' >&4
 val="$define"
else
 echo "sigsetmask() not found -- We'll use signal()." >&4
 val="$undef"
fi
set d_sigsetmk
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sigsetmk.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_shmat.U,v $
?RCS: Revision 3.0.1.3  1995/07/25  14:04:23  ram
?RCS: patch56: use findhdr to find <sys/shm.h>, to get the right one (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:18:56  ram
?RCS: patch27: added new symbol HAS_SHMAT_PROTOTYPE (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:54:18  ram
?RCS: patch23: new Shmat_t symbol to declare return type of shmat()
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:18  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_shmat shmattype
 d_shmatprototype: Inlibc cat +cc +ccflags \
 rm cppstdin cppflags cppminus Findhdr Setvar contains
?MAKE: -pick add $@ %<
?S:d_shmat:
?S: This variable conditionally defines the HAS_SHMAT symbol, which
?S: indicates to the C program that the shmat() routine is available.
?S:.
?S:shmattype:
?S: This symbol contains the type of pointer returned by shmat().
?S: It can be 'void *' or 'char *'.
?S:.
?S:d_shmatprototype:
?S: This variable conditionally defines the HAS_SHMAT_PROTOTYPE
?S: symbol, which indicates that sys/shm.h has a prototype for
?S: shmat.
?S:.
?C:HAS_SHMAT:
?C: This symbol, if defined, indicates that the shmat() routine is
?C: available to attach a shared memory segment to the process space.
```

```
?C:.
?C:Shmat_t:
?C: This symbol holds the return type of the shmat() system call.
?C: Usually set to 'void *' or 'char *'.
?C:.
?C:HAS_SHMAT_PROTOTYPE:
?C: This symbol, if defined, indicates that the sys/shm.h includes
?C: a prototype for shmat().  Otherwise, it is up to the program
 to
?C: guess one.  Shmat_t shmat _((int, Shmat_t, int)) is a good guess,
?C: but not always right so it should be emitted by the program only
?C: when HAS_SHMAT_PROTOTYPE is not defined to avoid conflicting defs.
?C:.
?H:#$d_shmat HAS_SHMAT  /**/
?H:#define Shmat_t $shmattype /**/
?H:#$d_shmatprototype HAS_SHMAT_PROTOTYPE /**/
?H:.
?LINT:set d_shmat d_shmatprototype
?T:xxx
: see if shmat exists
set shmat d_shmat
eval $inlibc
: see what shmat returns
case "$d_shmat" in
"$define")
 $cat >shmat.c <<'END'
#include <sys/shm.h>
void *shmat();
END
 if $cc $ccflags -c shmat.c >/dev/null 2>&1; then
  shmattype='void *'
 else
  shmattype='char *'
 fi
 echo "and it returns ($shmattype)." >&4
 : see if a prototype for shmat is available
 xxx=`./findhdr sys/shm.h`
 $cppstdin $cppflags $cppminus < $xxx > shmat.c 2>/dev/null
 if $contains 'shmat.*(' shmat.c >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 $rm -f shmat.[co]
 ;;
*)
 val="$undef"
 ;;
```

```
esac
set d_shmatprototype
eval $setvar
```

Found
 in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_shmat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethostbyname_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_gethostbyname_r gethostbyname_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_gethostbyname_r:
?S: This variable conditionally defines the HAS_GETHOSTBYNAME_R symbol,
?S: which indicates to the C program that the gethostbyname_r()
?S: routine is available.
?S:.
?S:gethostbyname_r_proto:
?S: This variable encodes the prototype of gethostbyname_r.
?S: It is zero if d_gethostbyname_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gethostbyname_r
?S: is defined.
?S:.
?C:HAS_GETHOSTBYNAME_R:
?C: This symbol, if defined, indicates
 that the gethostbyname_r routine
?C: is available to gethostbyname re-entrantly.
?C:.
?C:GETHOSTBYNAME_R_PROTO:
?C: This symbol encodes the prototype of gethostbyname_r.
?C: It is zero if d_gethostbyname_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gethostbyname_r
?C: is defined.
?C:.
?H:#$d_gethostbyname_r HAS_GETHOSTBYNAME_R /**/
?H:#define GETHOSTBYNAME_R_PROTO $gethostbyname_r_proto /**/
?H:.
?T:try hdrs d_gethostbyname_r_proto
: see if gethostbyname_r exists
```

```
set gethostbyname_r d_gethostbyname_r
eval $inlibc
case "$d_gethostbyname_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_gethostbyname_r_proto:$usethreads" in
 ":define") d_gethostbyname_r_proto=define
  set d_gethostbyname_r_proto gethostbyname_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_gethostbyname_r_proto" in
 define)
 case "$gethostbyname_r_proto" in
 "|0) try='int gethostbyname_r(const char*, struct hostent*, char*, size_t, struct
 hostent**, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyname_r_proto=I_CSBWRE ;;
 esac
 case "$gethostbyname_r_proto" in
 "|0) try='struct hostent* gethostbyname_r(const char*, struct hostent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyname_r_proto=S_CSBIE ;;
 esac
 case "$gethostbyname_r_proto" in
 "|0) try='int gethostbyname_r(const char*, struct hostent*, struct hostent_data*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyname_r_proto=I_CSD ;;
 esac
 case "$gethostbyname_r_proto" in
 "|0) d_gethostbyname_r=undef
  gethostbyname_r_proto=0
  echo "Disabling gethostbyname_r, cannot determine prototype." >&4 ;;
 * ) case "$gethostbyname_r_proto" in
  REENTRANT_PROTO*) ;;
  *) gethostbyname_r_proto="REENTRANT_PROTO_$gethostbyname_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "gethostbyname_r has no prototype, not using it." >&4 ;;
  esac
  d_gethostbyname_r=undef
  gethostbyname_r_proto=0
  ;;
 esac
 ;;
*) gethostbyname_r_proto=0
 ;;
esac
```

Found
 in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_gethostbyname_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysutsname.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysutsname: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysutsname:
?S: This variable conditionally defines the I_SYSUTSNAME symbol,
?S: and indicates whether a C program should include <sys/utsname.h>.
?S:.
?C:I_SYSUTSNAME:
?C: This symbol, if defined, indicates that <sys/utsname.h> exists and
?C: should be included.
?C:.
?H:#$i_sysutsname I_SYSUTSNAME  /**/
?H:.
?LINT:set i_sysutsname
: see if this is a sys/utsname.h system
set sys/utsname.h i_sysutsname
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_sysutsname.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_poll.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_poll: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_poll:
?S: This variable conditionally defines the I_POLL symbol, and indicates
?S: whether a C program should include <poll.h>.
```

```
?S:.
?C:I_POLL:
?C: This symbol, if defined, indicates that <poll.h> exists and
?C: should be included. (see also HAS_POLL)
?C:.
?H:#$i_poll I_POLL  /**/
?H:.
?LINT:set i_poll
: see if this is a poll.h system
set poll.h i_poll
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_poll.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:usedefaultstrict: Setvar Myread
?MAKE: -pick add $@ %<
?LINT:set usedefaultstrict
?S:usedefaultstrict:
?S: This setting provides a mechanism for perl developers to enable
?S: strict by default. These defaults do not apply when perl is run
?S: via -e or -E.
?S:.
?C:USE_STRICT_BY_DEFAULT:
?C: This symbol, if defined, enables additional defaults.
?C: At this time it only enables implicit strict by default.
?C:.
?H:#$usedefaultstrict USE_STRICT_BY_DEFAULT /* use strict by default */
?H:.
: Ask about strict by default.
case "$usedefaultstrict" in
  $define|true|[Yy]*)
    dflt="y"
    ;;
  *)
    dflt="n"
    ;;
  esac

cat <<EOM

EXPERIMENTAL: Perl can now be built with strict on by default when not
invoked with -e or -E. This is a diagnostic tool
```

```
 for development.

Unless you are familiar with this feature, you should probably answer 'no'.

EOM

rp='Would you like to build perl with strict enabled by default?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*)   val="$undef"  ;;
esac
set usedefaultstrict
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/usedefaultstrict.U
No license file was found, but licenses were detected in source scan.

```
*  You may redistribute only under the terms of the Artistic Licence,
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/files/Jmake.tmpl
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorman3dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999-2000, Andy Dougherty
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorman3dir.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorman3dir vendorman3direxp installvendorman3dir: man3dir Getfile \
 Oldconfig Setprefixvar Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorman3dir:
?S: This variable contains the name of the directory for man3
?S: pages.  It may have a ~ on the front.
```

```
?S: The standard distribution will put nothing in this directory.
?S: Vendors
 who distribute perl may wish to place their own
?S: man3 pages in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorman3direxp:
?S: This variable is the ~name expanded version of vendorman3dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorman3dir="
?S:installvendorman3dir:
?S: This variable is really the same as vendorman3direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorman3dir
: Set the vendorman3dir variables
case "$vendorprefix" in
") vendorman3dir="
 vendorman3direxp="
 ;;
*) : determine where vendor-supplied module manual pages go.
 case "$vendorman3dir" in
 ") dflt=`echo "$man3dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
 *) dflt=$vendorman3dir ;;
 esac
 case "$dflt" in
 "|' ') dflt=none ;;
 esac
 fn=nd~+
 rp='Pathname
 for the vendor-supplied manual section 3 pages?'
 . ./getfile
 vendorman3dir="$ans"
 vendorman3direxp="$ansexp"
 ;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorman3dir" = "X" && vendorman3dir=' '
prefixvar=vendorman3dir
. ./installprefix
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/vendorman3dir.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_voidsig.U,v $
?RCS: Revision 3.0.1.3  1995/05/12  12:12:46  ram
?RCS: patch54: made cppflags dependency optional
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:20:35  ram
?RCS: patch32: now sets signal_t only once d_voidsig is known (WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:59:54  ram
?RCS: patch30: now properly sets signal_t when re-using previous value
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_voidsig signal_t: rm contains
 cppstdin cppminus +cppflags test Myread \
 Oldconfig Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_voidsig:
?S: This variable conditionally defines VOIDSIG if this system
?S: declares "void (*signal(...))()" in signal.h.  The old way was to
?S: declare it as "int (*signal(...))()".
?S:.
?S:signal_t:
?S: This variable holds the type of the signal handler (void or int).
?S:.
?C:VOIDSIG:
?C: This symbol is defined if this system declares "void (*signal(...))()" in
?C: signal.h.  The old way was to declare it as "int (*signal(...))()".  It
?C: is up to the package author to declare things correctly based on the
?C: symbol.
?C:.
?C:Signal_t (SIGNAL_T):
?C: This symbol's value is either "void" or "int", corresponding to the
?C: appropriate return type of a signal handler.  Thus, you can declare
?C: a signal handler using "Signal_t (*handler)()", and define the
?C: handler using "Signal_t handler(sig)".
```

```
?C:.
?H:#$d_voidsig VOIDSIG  /**/
?H:#define Signal_t $signal_t /* Signal handler's return
 type */
?H:.
?T:xxx
?LINT:set d_voidsig
: see if signal is declared as pointer to function returning int or void
echo " "
xxx=`./findhdr signal.h`
$test "$xxx" && $cppstdin $cppminus $cppflags < $xxx >$$.tmp 2>/dev/null
if $contains 'int.*\*[  ]*signal' $$.tmp >/dev/null 2>&1 ; then
 echo "You have int (*signal())() instead of void." >&4
 val="$undef"
elif $contains 'void.*\*[  ]*signal' $$.tmp >/dev/null 2>&1 ; then
 echo "You have void (*signal())() instead of int." >&4
 val="$define"
elif $contains 'extern[  ]*[(\*]*signal' $$.tmp >/dev/null 2>&1 ; then
 echo "You have int (*signal())() instead of void." >&4
 val="$undef"
else
 case "$d_voidsig" in
 ")
 echo "I can't determine whether signal handler returns void or int..." >&4
  dflt=void
  rp="What type does your signal handler return?"
  . ./myread
  case "$ans" in
  v*) val="$define";;
  *) val="$undef";;
  esac;;
 "$define")
  echo "As you already told me, signal handler returns void." >&4;;
 *)
  echo "As you already told
 me, signal handler returns int." >&4;;
 esac
fi
set d_voidsig
eval $setvar
case "$d_voidsig" in
"$define") signal_t="void";;
*) signal_t="int";;
esac
$rm -f $$.tmp
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/dist/U/d_voidsig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fseeko: Inlibc longsize
?MAKE: -pick add $@ %<
?S:d_fseeko:
?S: This variable conditionally defines the HAS_FSEEKO symbol, which
?S: indicates to the C program that the fseeko() routine is available.
?S:.
?C:HAS_FSEEKO:
?C: This symbol, if defined, indicates that the fseeko routine is
?C: available to fseek beyond 32 bits (useful for ILP32 hosts).
?C:.
?H:#$d_fseeko HAS_FSEEKO  /**/
?H:.
?LINT:set d_fseeko
: see if fseeko exists
set fseeko d_fseeko
eval $inlibc
case "$longsize" in
8) echo "(Your long is 64 bits, so you could use fseek.)" ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fseeko.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getsrvby.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getsbyname d_getsbyport: Inlibc
?MAKE: -pick add $@ %<
?S:d_getsbyname:
?S: This variable conditionally defines the HAS_GETSERVBYNAME
?S: symbol, which indicates to the C program that the
?S: getservbyname() routine is available to look up services
```

```
?S: by their name.
?S:.
?S:d_getsbyport:
?S: This variable conditionally defines the HAS_GETSERVBYPORT
?S: symbol, which indicates to the C program that the
?S: getservbyport() routine is available to look up services
?S: by their port.
?S:.
?C:HAS_GETSERVBYNAME:
?C: This symbol, if defined, indicates that the getservbyname()
?C: routine is available to look up services by their name.
?C:.
?C:HAS_GETSERVBYPORT:
?C: This symbol, if defined,
 indicates that the getservbyport()
?C: routine is available to look up services by their port.
?C:.
?H:#$d_getsbyname HAS_GETSERVBYNAME  /**/
?H:#$d_getsbyport HAS_GETSERVBYPORT  /**/
?H:.
?LINT:set d_getsbyname d_getsbyport
: Optional checks for getsbyname and getsbyport

@if d_getsbyname || HAS_GETSERVBYNAME
: see if getservbyname exists
set getservbyname d_getsbyname
eval $inlibc
@end

@if d_getsbyport || HAS_GETSERVBYPORT
: see if getservbyport exists
set getservbyport d_getsbyport
eval $inlibc
@end
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_getsrvby.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: gidtype.U,v 3.0.1.3 1994/08/29 16:21:44 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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```

```
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: gidtype.U,v $
?RCS: Revision 3.0.1.3  1994/08/29  16:21:44  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS: patch32: removed useless usage of Setvar (for now)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:21:07  ram
?RCS: patch27: added lint hint
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:01:51  ram
?RCS: patch23: protected gidtype setting via setvar (ADO)
?RCS: patch23: made Gid_t comment more explicit (ADO)
?RCS:
?RCS: Revision
 3.0  1993/08/18  12:08:11  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:gidtype: Myread Typedef Findhdr
?MAKE: -pick add $@ %<
?S:gidtype:
?S: This variable defines Gid_t to be something like gid_t, int,
?S: ushort, or whatever type is used to declare the return type
?S: of getgid().  Typically, it is the type of group ids in the kernel.
?S:.
?C:Gid_t (GIDTYPE):
?C: This symbol holds the return type of getgid() and the type of
?C: argument to setrgid() and related functions.  Typically,
?C: it is the type of group ids in the kernel. It can be int, ushort,
?C: gid_t, etc... It may be necessary to include <sys/types.h> to get
?C: any typedef'ed information.
?C:.
?H:#define Gid_t $gidtype  /* Type for getgid(), etc... */
?H:.
?T:xxx
: see what type gids are declared as in the kernel
echo " "
echo "Looking for the type for group ids returned by getgid()."
set gid_t gidtype xxx stdio.h sys/types.h
eval $typedef
case "$gidtype" in
xxx)
 xxx=`./findhdr sys/user.h`
 set `grep
 'groups\[NGROUPS\];' "$xxx" 2>/dev/null` unsigned short
 case $1 in
 unsigned) dflt="$1 $2" ;;
 *) dflt="$1" ;;
```

```
 esac
 ;;
*) dflt="$gidtype";;
esac
case "$gidtype" in
gid_t) echo "gid_t found." ;;
*) rp="What is the type for group ids returned by getgid()?"
 . ./myread
 gidtype="$ans"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/gidtype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Config_h.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  14:57:43  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:10:49  ram
?RCS: patch59: commented the purpose of the #un-def directive
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:25:39  ram
?RCS: patch49: typo fixes in leading config.h comment (WED)
?RCS:
?RCS: Revision 3.0.1.2  1993/08/24  12:13:20  ram
?RCS: patch3: added TOP as a local shell temporary variable
?RCS:
?RCS: Revision 3.0.1.1  1993/08/19  06:42:20
  ram
?RCS: patch1: leading config.sh searching was not aborting properly
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
```

```
?X: This file ends up producing the config_h.SH script, which is run to produce
?X: the config.h file.  The file ./.Config_h below contains all the ?H: lines
?X: extracted out of all the units.  Metaconfig itself adds the !GROK!THIS!.
?X: Note that this code isn't included into Configure, but must be shipped with.
?X:
?X: For those who wish to know why the file is config_h.SH instead of the more
?X: natural config.h.SH, well... it is to support systems like MS-DOG. Only one
?X: 'dot' is allowed within the file name, as it is part of the "extension" of
?X: the file. MS-DOG will not let you have two 'dots' because that would mean
?X: two "extensions".
?X:
?MAKE:Config_h: Id End Config_sh Obsol_h myuname cf_time cf_by package src
?MAKE: -pick c_h_weed $@ %<
?MAKE: -pick c_h_weed $@ ./Config_h
?MAKE: -pick
 c_h_weed $@ ./Obsol_h
?T:CONFIG TOP
?LINT:unclosed !GROK!THIS!
?LINT:extern CONFIG_H CONFIG_SH
?LINT:change CONFIG_H CONFIG_SH
?LINT:nocomment
case "$CONFIG_SH" in
") CONFIG_SH=config.sh;;
esac
case "$CONFIG_H" in
") CONFIG_H=config.h;;
esac
case $CONFIG in
")
 if test -f $CONFIG_SH; then TOP=.;
 elif test -f ../$CONFIG_SH; then TOP=..;
 elif test -f ../../$CONFIG_SH; then TOP=../..;
 elif test -f ../../../$CONFIG_SH; then TOP=../../..;
 elif test -f ../../../../$CONFIG_SH; then TOP=../../../..;
 else
  echo "Can't find $CONFIG_SH."; exit 1
 fi
 . $TOP/$CONFIG_SH
 ;;
esac
?X: Make sure we are in the directory where the .SH file is located.
case "$0" in
*/*) cd `expr X$0 : 'X\(.*\)/'` ;;
esac
echo "Extracting $CONFIG_H (with variable substitutions)"
?X:
?X: Since we unconditionally translate leading #undef into /*#define, we're
?X: stuck when we really want to have a #undef in config.h. That's why there
```

```
?X: is provision here for #un-def, which is translated back into #undef after
?X:
 all original #undef have been processed.
?X:
?X: Previously, we changed all
?X:  #undef FOO /**/
?X: into
?X:  /*#define FOO /**/
?X: The xlc compiler (available on IBM's AIX) complains that this is
?X: an illegal attempt to write a nested comment, and warns against it.
?X: There's apparently no way to shut the compiler up, either.
?X: This sed command from Hallvard B Furuseth <h.b.furuseth@usit.uio.no>
?X: changes it to
?X:  /*#define FOO / **/
sed <<!GROK!THIS! >$CONFIG_H -e 's!^#undef\(.*/\)\*!/\*#define\1 \*!' -e 's!^#un-def!#undef!'
/*
* This file was produced by running the config_h.SH script, which
* gets its values from $CONFIG_SH, which is generally produced by
* running Configure.
*
* Feel free to modify any of this as the need arises.  Note, however,
* that running config_h.SH again will wipe out any changes you've made.
* For a more permanent change edit $CONFIG_SH and rerun config_h.SH.
*
* \$Id: Config_h.U 1 2006-08-24 12:32:52Z rmanfredi $
*/

/*
* Package name
     : $package
* Source directory  : $src
* Configuration time: $cf_time
* Configured by     : $cf_by
* Target system     : $myuname
*/

#ifndef _config_h_
#define _config_h_
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Config_h.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_grp.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:20  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_grp: Inhdr
?MAKE: -pick add $@ %<
?S:i_grp:
?S: This variable conditionally defines the I_GRP symbol, and indicates
?S: whether a C program should include <grp.h>.
?S:.
?C:I_GRP:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <grp.h>.
?C:.
?H:#$i_grp I_GRP  /**/
?H:.
?LINT:set i_grp
: see if this is an grp system
set grp.h i_grp
eval $inhdr
```

Found
 in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_grp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Cppsym.U,v 3.0.1.5 1995/05/12 11:59:11 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Cppsym.U,v $
?RCS: Revision 3.0.1.5  1995/05/12  11:59:11  ram
?RCS: patch54: split awk command onto two lines for older awk's (ADO)
?RCS:
?RCS: Revision 3.0.1.4  1995/01/11  14:55:57  ram
```

```
?RCS: patch45: new cc vs. cpp symbol checking suggested by JHI
?RCS: patch45: added more cpp symbols (JHI)
?RCS:
?RCS: Revision 3.0.1.3  1994/10/29  15:51:32  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: new symbols ardent and titan (ADO)
?RCS:
?RCS:
 Revision 3.0.1.2  1994/06/20  06:53:32  ram
?RCS: patch30: extended cpp symbol lookup list (JHI)
?RCS: patch30: renamed attrlist symbol into al for brevity
?RCS:
?RCS: Revision 3.0.1.1  1993/12/15  08:14:14  ram
?RCS: patch15: added new cpp symbols __bsdi__ and BSD_NET2
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X: This unit produces a shell script called Cppsym, which can be used to
?X: determine whether any in a list of symbols is defined by the C compilation
?X: chain (C preprocessor symbols plus C compiler native ones).
?X: It can determine the status of any symbol, though the symbols in $al
?X: are more easily determined.  If you want to add to $al you can do
?X: it in Myinit.U.
?MAKE:Cppsym ccsymbols cppsymbols cppccsymbols: run \
 eunicefix Guess awk cat tr sed sort rm rm_try startsh osname \
 +cc +gccversion test comm uniq echo Options trnl \
 optimize ccflags ldflags libs cpp_stuff cpp
?MAKE: -pick add $@ %<
?T:also
 symbols i postprocess_cc_v tHdrH
?X:
?X: The symbol list is in alpha order for ease of maintenance...
?X:
?X: Lots of new symbols (mostly rummaged from gcc), courtesy of
?X: Jarkko Hietaniemi <jhi@snakemail.hut.fi> -- RAM, 06/06/94
?X:
?S:ccsymbols:
?S: The variable contains the symbols defined by the C compiler alone.
?S: The symbols defined by cpp or by cc when it calls cpp are not in
?S: this list, see cppsymbols and cppccsymbols.
?S: The list is a space-separated list of symbol=value tokens.
?S:.
?S:cppsymbols:
?S: The variable contains the symbols defined by the C preprocessor
?S: alone.  The symbols defined by cc or by cc when it calls cpp are
?S: not in this list, see ccsymbols and cppccsymbols.
?S: The list is a space-separated list of symbol=value tokens.
```

```
?S:.
?S:cppccsymbols:
?S: The variable contains the symbols defined by the C compiler
?S: when it calls cpp.  The symbols defined by the cc alone or cpp
?S: alone are not in this list, see ccsymbols and cppsymbols.
?S: The
 list is a space-separated list of symbol=value tokens.
?S:.
?F:./Cppsym
?F:./Cppsym.know
?F:!Cppsym.true
?F:!ccsym.com
?F:!ccsym.cpp
?F:!ccsym.own
?X: fake LINT hints
?LINT:change ccflags
?LINT:extern s
?LINT:extern s__
: Preprocessor symbols
echo " "
$echo "Guessing which symbols your C compiler and preprocessor define..." >&4
?X: If your symbol is mixed case, just add it as-is.
?X: All symbols will be transformed to both all-lower and all-upper.
?X: Also drop any leading/trailing underscores, the scan will try all those.
$cat <<'EOSH' > Cppsym.know
a29k aarch64 ABI64 aegis AES_SOURCE AIX AIX32 AIX370 AIX41 AIX42
AIX43 aixpc AIX_SOURCE alliant ALL_SOURCE alpha AM29000 am29000
AMD64 amd64 amiga AMIGAOS AMIX ansi ANSI_C_SOURCE apollo arch_ppc
arch_pwr ardent ARM ARM32 atarist att386 att3b
BeOS BIG_ENDIAN BIT_MSF BSD bsd bsd43 bsd4_2 BSD4_3 bsd4_3 bsd4_4
BSDCOMPAT bsdi BSD_4_3 BSD_4_4 BSD_NET2 BSD_TIME BSD_TYPES bull
byteorder byte_order
c cadmus clang clipper CMU COFF COMPILER_VERSION
 concurrent
convex cpu CRAY cray CRAYMPP ctix CX_UX CYGWIN
DECC DGUX DGUX_SOURCE DJGPP dmert DOLPHIN DPX2 DSO Dynix DynixPTX
ELF encore EPI EXTENSIONS
FAVOR_BSD FILE_OFFSET_BITS FORTIFY_SOURCE FreeBSD
GCC_NEW_VARARGS gcos gcx gimpel GLIBC GLIBC_MINOR GNUC GNUC_MINOR
GNU_LIBRARY GNU_SOURCE GO32 gould GOULD_PN
H3050R H3050RX hbullx20 hcx host_mips hp200 hp300 HP700 hp700
hp800 hp9000 hp9000s200 hp9000s300 hp9000s400
hp9000s700 hp9000s800 hp9k8 hppa hpux HPUX_SOURCE hp_osf
i186 i286 i386 i486 i586 i686 i8086 i80960 i860 I960 IA32 IA64
iAPX286 ibm ibm032 ibmesa IBMR2 ibmrt ILP32 ILP64
INLINE_INTRINSICS INT64 INTEL interdata INTRINSICS is68k itanium
ksr1
LANGUAGE_C LARGEFILE64_SOURCE LARGEFILE_SOURCE LARGE_FILE_API
```

LFS64_LARGEFILE LFS_LARGEFILE LIBCATAMOUNT Linux LITTLE_ENDIAN
LONG64 LONGDOUBLE LONGLONG LONG_DOUBLE LONG_LONG LP64 luna
luna88k Lynx
M68000 m68k m88100 m88k M88KBCS_TARGET MACH machine MachTen
MATH_HAS_NO_SIDE_EFFECTS mc300 mc500 mc68000 mc68010 mc68020
mc68030 mc68040 mc68060
mc68k mc68k32 mc700 mc88000 mc88100
merlin mert MiNT mips MIPSEB MIPSEL MIPS_FPSET MIPS_ISA MIPS_SIM
MIPS_SZINT MIPS_SZLONG MIPS_SZPTR MODERN_C motorola MSDOS
MTXINU MULTIMAX MVS mvs M_AMD64 M_ARM M_ARMT M_COFF M_I186 M_I286
M_I386 M_I8086 M_I86 M_I86SM M_IA64 M_IX86 M_PPC M_SYS3 M_SYS5
M_SYSIII M_SYSV M_UNIX M_X86 M_XENIX
n16 ncl_el ncl_mr NetBSD news1500 news1700 news1800 news1900
news3700 news700 news800 news900 NeXT NLS nonstopux ns16000
ns32000 ns32016 ns32332 ns32k nsc32000
OCS88 OEMVS OpenBSD os OS2 OS390 osf OSF1 OSF_SOURCE
PARAGON parisc pa_risc PA_RISC1_1 PA_RISC2_0 pc532 pdp11 PGC PIC
plexus PORTAR posix POSIX1B_SOURCE POSIX2_SOURCE POSIX4_SOURCE
POSIX_C_SOURCE POSIX_SOURCE POWER powerpc ppc PROTOTYPES PWB pyr
QK_USER QNX
R3000 REENTRANT RES Rhapsody RISC6000 riscix riscos RT
S390 S390x SA110 SCO scs sequent sgi SGI_SOURCE SH SH3 sinix
SIZE_INT SIZE_LONG SIZE_PTR SOCKETS_SOURCE SOCKET_SOURCE sony
sonyrisc sony_news sparc sparclite sparcv8 sparcv9 spectrum
stardent stdc
STDC_EXT stratos sun sun3 sun386 Sun386i svr3 svr4
SVR4_2 SVR4_SOURCE svr5 SX system SYSTYPE_BSD SYSTYPE_BSD43
SYSTYPE_BSD44 SYSTYPE_SVR4 SYSTYPE_SVR5 SYSTYPE_SYSV SYSV SYSV3
SYSV4 SYSV5 sysV68 sysV88
Tek4132 Tek4300 thumb thw_370 thw_intel thw_rs6000 titan TM3200
TM5400 TM5600 tower tower32 tower32_200 tower32_600 tower32_700
tower32_800 tower32_850 tss
u370 u3b u3b2 u3b20 u3b200 u3b20d u3b5 ultrix UMAXV UnicomPBB
UnicomPBD UNICOS UNICOSMK unix UNIX95 UNIX99 unixpc unos USE_BSD
USE_FILE_OFFSET64 USE_GNU USE_ISOC9X USE_LARGEFILE
USE_LARGEFILE64 USE_MISC USE_POSIX USE_POSIX199309
USE_POSIX199506 USE_POSIX2 USE_REENTRANT USE_SVID USE_UNIX98
USE_XOPEN USE_XOPEN_EXTENDED USGr4 USGr4_2 UTek Utek UTS UWIN
uxpm uxps
vax venix VMESA vms
x86_64 xenix Xenix286 XOPEN_SOURCE XOPEN_SOURCE_EXTENDED XPG2
XPG2_EXTENDED XPG3 XPG3_EXTENDED XPG4 XPG4_EXTENDED
z8000 zarch
EOSH
Maybe put other stuff here too.
?X:Some OS's will have a dash in their $osname
?X:e.g. Android is known as linux-android
?X:The

```
 preprocessor will interpret the dash as a minus
./tr '-' '_' <<EOSH >>Cppsym.know
$osname
EOSH
./tr '[a-z]' '[A-Z]' < Cppsym.know > Cppsym.a
./tr '[A-Z]' '[a-z]' < Cppsym.know > Cppsym.b
$cat Cppsym.know > Cppsym.c
$cat Cppsym.a Cppsym.b Cppsym.c | $tr ' ' $trnl | $sort | $uniq > Cppsym.know
$rm -f Cppsym.a Cppsym.b Cppsym.c
cat <<EOSH > Cppsym
$startsh
if $test \$# -gt 0; then
   echo \$* | $tr " " "$trnl" | ./Cppsym.try > Cppsym.got
   if $test -s Cppsym.got; then
 $rm -f Cppsym.got
 exit 0
   fi
   $rm -f Cppsym.got
   exit 1
else
   $tr " " "$trnl" | ./Cppsym.try
   exit 0
fi
EOSH
chmod +x Cppsym
$eunicefix Cppsym
?X: The below awk script will die a horrible death if
?X: some of the tested symbols are not long ints.
?X: Also, we do not make difference between just defined and defined zero.
cat <<EOSH > Cppsym.try
$startsh
cat <<'EOCP' > try.c
#include <stdio.h>
#if cpp_stuff == 1
#define STRINGIFY(a)    "a"
#endif
#if cpp_stuff == 42
#define StGiFy(a)  #a
#define STRINGIFY(a)
    StGiFy(a)
#endif
#if $cpp_stuff != 1 && $cpp_stuff != 42
#   include "Bletch: How does this C preprocessor stringify macros?"
#endif
int main() {
EOCP
?X: The length($1) command guards against possible empty entries.
?X: The awk snippet is know to give heartburn to UNICOS/mk awk.
```

```
$awk \\
EOSH
cat <<'EOSH' >> Cppsym.try
'length($1) > 0 {
   printf "#ifdef %s\nprintf(\"%s=%%s\\n\", STRINGIFY(%s));\n#endif\n", $1, $1, $1
   printf "#ifdef _%s\nprintf(\"_%s=%%s\\n\", STRINGIFY(_%s));\n#endif\n", $1, $1, $1
   printf "#ifdef __%s\nprintf(\"__%s=%%s\\n\", STRINGIFY(__%s));\n#endif\n", $1, $1, $1
   printf "#ifdef __%s__\nprintf(\"__%s__=%%s\\n\", STRINGIFY(__%s__));\n#endif\n", $1, $1, $1
}' >> try.c
echo 'return 0;}' >> try.c
EOSH
cat <<EOSH >> Cppsym.try
ccflags="$ccflags"
case "$osname-$gccversion" in
irix-) ccflags="\$ccflags -woff 1178" ;;
os2-*) ccflags="\$ccflags -Zlinker /PM:VIO" ;;
esac
$cc -o try -Dcpp_stuff=$cpp_stuff $optimize \$ccflags $ldflags try.c $libs 2>/dev/null
 && $run ./try | $sed 's/ /\\\\ /g'
EOSH
chmod +x Cppsym.try
$eunicefix Cppsym.try
./Cppsym < Cppsym.know | $sort | $uniq > Cppsym.true
: Add in any Linux cpp "predefined macros":
case "$osname::$gccversion" in
 *linux*::*.*|*gnukfreebsd*::*.*|gnu::*.*)
   tHdrH=_tmpHdr
   rm -f $tHdrH'.h' $tHdrH
   touch $tHdrH'.h'
   # Filter out macro arguments, such as Linux's __INT8_C(c)
   if $cpp -dM $tHdrH'.h' > $tHdrH'_cppsym.h' && [ -s $tHdrH'_cppsym.h' ]; then
      sed -e 's/#define[\ \  ]*//;s/[\ \      ].*$//' -e 's/(.*//' <$tHdrH'_cppsym.h' >$tHdrH'_cppsym.real'
      if [ -s $tHdrH'_cppsym.real' ]; then
   cat $tHdrH'_cppsym.real' Cppsym.know | sort | uniq | ./Cppsym | sort | uniq > Cppsym.true
      fi
   fi
   rm -f $tHdrH'.h' $tHdrH'_cppsym.h' $tHdrH'_cppsym.real'
 ;;
esac
: now check the C compiler for additional symbols
?X: suggested by Jarkko Hietaniemi <jhi@snakemail.hut.fi>, thanks!
postprocess_cc_v="
case "$osname" in
aix) postprocess_cc_v="|$tr , ' '" ;;
esac
$cat >ccsym
 <<EOS
$startsh
```

```
$cat >tmp.c <<EOF
extern int foo;
EOF
for i in \`$cc -v -c tmp.c 2>&1 $postprocess_cc_v\`
do
 case "\$i" in
 -D*) echo "\$i" | $sed 's/^-D//';;
 -A*) $test "$gccversion" && echo "\$i" | $sed 's/^-A//' | $sed 's/\(.*\)(\(.*\))/\1=\2/';;
 esac
done
$rm_try
EOS
postprocess_cc_v=''
chmod +x ccsym
$eunicefix ccsym
./ccsym > ccsym1.raw
?X: AIX complains if $uniq is passed an empty file.  ($sort apparently
?X: doesn't care.)  --AD  14 July 1998
if $test -s ccsym1.raw; then
   $sort ccsym1.raw | $uniq >ccsym.raw
else
   mv ccsym1.raw ccsym.raw
fi

?X: canonicalize symbols for easier sort/uniq/comm usage: append =1 if no = sign
?X: the awk script must be on two lines for older awk programs, sigh! -- ADO
$awk '/\=/ { print $0; next }
 { print $0"=1" }' ccsym.raw >ccsym.list
$comm -13 Cppsym.true ccsym.list >ccsym.own
$comm -12 Cppsym.true ccsym.list >ccsym.com
$comm -23 Cppsym.true ccsym.list >ccsym.cpp
also=''
if $test -z ccsym.raw; then
 echo "Your C compiler doesn't seem
 to define any symbols!" >&4
 echo " "
 echo "However, your C preprocessor defines the following symbols:"
 $cat Cppsym.true
 ccsymbols=''
 cppsymbols=`$cat Cppsym.true`
 cppsymbols=`echo $cppsymbols`
 cppccsymbols="$cppsymbols"
else
 if $test -s ccsym.com; then
  echo "Your C compiler and pre-processor define these symbols:"
  $sed -e 's/\(..*\)=.*/\1/' ccsym.com
  also='also '
  symbols='ones'
```

```
  cppccsymbols=`$cat ccsym.com`
  cppccsymbols=`echo $cppccsymbols`
  $test "$silent" || sleep 1
 fi
 if $test -s ccsym.cpp; then
  $test "$also" && echo " "
  echo "Your C pre-processor ${also}defines the following symbols:"
  $sed -e 's/\(..*\)=.*/\1/' ccsym.cpp
  also='further '
  cppsymbols=`$cat ccsym.cpp`
  cppsymbols=`echo $cppsymbols`
  $test "$silent" || sleep 1
 fi
 if $test -s ccsym.own; then
  $test "$also" && echo " "
  echo "Your C compiler ${also}defines the following cpp symbols:"
  $sed -e 's/\(..*\)=1/\1/' ccsym.own
  $sed -e 's/\(..*\)=.*/\1/' ccsym.own | $uniq >>Cppsym.true
  ccsymbols=`$cat
 ccsym.own`
  ccsymbols=`echo $ccsymbols`
  $test "$silent" || sleep 1
 fi
fi

: add -D_FORTIFY_SOURCE if feasible and not already there
case "$gccversion" in
[456789].*|[1-9][0-9]*) case "$optimize$ccflags" in
 *-O*) case "$ccflags$cppsymbols" in
  *_FORTIFY_SOURCE=*) # Don't add it again.
   echo "You seem to have -D_FORTIFY_SOURCE already, not adding it." >&4
   ;;
  *) echo "Adding -D_FORTIFY_SOURCE=2 to ccflags..." >&4
   ccflags="$ccflags -D_FORTIFY_SOURCE=2"
   ;;
  esac
  ;;
 *) echo "You have gcc 4.* or later but not optimizing, not adding -D_FORTIFY_SOURCE." >&4
  ;;
 esac
 ;;
*) echo "You seem not to have gcc 4.* or later, not adding -D_FORTIFY_SOURCE." >&4
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Cppsym.U

No license file was found, but licenses were detected in source scan.

Perl5 Metaconfig Units

Copyright (c) 1996-1998, Andy Dougherty
Copyright (c) 1999-2011, H.Merijn Brand
All rights reserved.

These units are the ones used to build Configure and config_h.SH
in the Perl5 distribution.

metaconfig will first look in its standard locations (specified when you
installed dist). It will then recurse through the 'U' subdirectory
and find any additional "private" units. Private units override
standard ones supplied with metaconfig.

Files in this directory:

README
This file.

Glossary.patch
The standard dist units contain some strings that make pod2man
complain. This patch silences those warnings. As new units are
added and Configure is regenerated, this patch may need more and more
'fuzz' to be applied. It should be freshly regenerated every once
in a while. See also mkgloss.pl

ln-all.pl
Re-generate the all/ folder

mkglossary
A script
to regenerate Porting/Glossary. You have to manually
edit the top of the script to point the location of your metaconfig
units. It is called automatically by 'mksample'. See also mkgloss.pl

mkgloss.pl
A perl script that calls U/mkglossary from the perl source tree, sorts
the list of symbols, and applies the patch mentioned in Glossary.patch.
When called on its own, redirect the output to a temporary file, and
compare that file to Porting/Glossary before applying.

mksample
A script to regenerate Porting/config.sh and Porting/config.H.
It also calls mkglossary, if necessary.

Subdirectories:

The units and other related files have been broken up into the following directories.

a_dvisory/

These are units that have to go first in the generated config_h.SH.
A word of explanation: Configure and config_h.SH are generated from 'Units' (the *.U files). Files indicate dependencies (using make(1)), and Configure is built to follow those dependencies.
However, config_h.SH is simply built by putting all the units in alphabetical order and extracting the relevant lines. (This could be fixed, I suppose, but it wasn't trivial the one time I looked.)
The a_dvisory/ directory, then, is a place to put units that need to be early in config_h.SH. (Most units are self-contained and ought to be able to go anywhere. However, some things, like byteorder, need to have the #defines from multiarch available.)

acl/

This is an old patch to begin to detect and use ACL (access control list) file protection schemes.

all/

A folder that conveniently holds symbolic links to all the modules that are used to build the current Configure and config_h.SH.

compline/

These are similar to the standard units, but I have modified them to have a more uniform compile command line, usually using the new Compile.U unit. (The ccflags.U unit is perl-specific since it mentions -DDEBUGGING and -DPOSIX_SOURCE, but that's the only place it is perl-specific.)

dist_patches/

These are patches to dist that must be applied before it is built and installed. I have submitted these for inclusion in the regular dist distribution. They have already been applied to the ../dist-3.0at70b directory.

ebcdic/

These are units that had to be specially modified to work under either EBCDIC or ASCII.

installdirs/

These are units to handle perl's installation directories and related issues.

modified/
These are modified versions of the standard units. Also included in this directory are new units that are clearly derived from existing units. I have submitted these for inclusion in the regular dist distribution.

nullified/
These are null units that replace units in the standard distribution. Typically they are there because some part of the perl source accidentally uses a symbol that metaconfig thinks means we want the corresponding
unit.

perl/
These are specific to perl. Some are heavily derived from original dist units, and are marked as such. Others are original.

perl_patches/
These are patches to the perl source. This directory should ordinarily be empty, but there may have been drift between the standard version of perl and the one associated with these units.

protos/
These are units modified to use the new Hasproto.U or Protochk.U units to check for prototypes.

threads/
These are specific to threading perl.

typedefs/
These are standard units modified to use the modified Typedef.U unit to check for typedefs. (The modified Typdef.U includes a function to avoid unnecessary prompts if the typdef being searched for exists.)

Where appropriate, I submitted these units for inclusion into the regular dist distribution. However, since dist is no longer actively maintained, and the alternative is for *me* to actively maintain it, the units just
sit here.

Copyright Information:

Unless otherwise indicated, the files contained in this distribution are:

Copyright (c) 1996-1998, Andy Dougherty

The following licensing terms apply to all files contained in
this distribution:

You may distribute the files contained in this distribution
under the terms of either

a) the "Artistic License" which comes with Perl, or

b) the "Artistic License" which comes with dist, or

c) the GNU General Public License as published by the Free
Software Foundation; either version 1, or (at your option) any
later version (see the file "Copying" that comes with the
Perl distribution).

Which one to use is your choice.

The units in the "modified" directory have been derived from units
associated with the metaconfig program of Raphael Manfredi's "dist"
distribution. These units list Raphael Manfredi as the Copyright holder.
dist is distributed under a modified version of the Perl Artistic License.
Clause 7 of this modified
license as contained in dist-3.0-pl60 provides:

7. You may reuse parts of this Package in your own programs, provided
that you explicitly state where you got them from, in the source code
(and, left to your courtesy, in the documentation), duplicating
all the associated copyright notices and disclaimers. Besides
your changes, if any, must be clearly marked as such. Parts reused
that way will no longer fall under this license if, and only if,
the name of your program(s) have no immediate connection with the
name of the Package itself or its associated programs. You may then
apply whatever restrictions you wish on the reused parts or choose
to place them in the Public Domain--this will apply only within the
context of your package.

In accordance with this clause, the versions of these units
contained here are made available under the same terms as the
rest of the units.

If you have any questions about the use of these units or about
the differences
between these units and the standard versions, please
feel free to ask.

Andy Dougherty doughera@lafayette.edu

Dept. of Physics
Lafayette College
Easton, PA 18042-1782

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/README
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:full_ar: ar
?MAKE: -pick add $@ %<
?S:full_ar:
?S: This variable contains the full pathname to 'ar', whether or
?S: not the user has specified 'portability'.  This is only used
?S: in the Makefile.SH.
?S:.
: Store the full pathname to the ar program for use in the C program
: Respect a hint or command line value for full_ar.
case "$full_ar" in
") full_ar=$ar ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/Loc_ar.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sig_name.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sig_name.U,v $
```

```
?RCS: Revision 3.0.1.5  1997/02/28  16:21:25  ram
?RCS: patch61: brand new algorithm for sig_name and (new!) sig_num
?RCS:
?RCS: Revision 3.0.1.4  1995/07/25  14:14:54  ram
?RCS: patch56: added <asm/signal.h> lookup for Linux
?RCS:
?RCS: Revision 3.0.1.3  1995/05/12  12:24:11  ram
?RCS: patch54: now looks for <linux/signal.h> too (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20  07:06:57  ram
?RCS: patch30: final echo was missing to close
 awk-printed string
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:17:55  ram
?RCS: patch23: signal list now formatted to avoid scroll-ups (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:sig_name sig_name_init sig_num sig_num_init sig_count sig_size: \
 awk Signal Oldconfig rm
?MAKE: -pick add $@ %<
?S:sig_name:
?S: This variable holds the signal names, space separated. The leading
?S: SIG in signal name is removed.  A ZERO is prepended to the list.
?S: This is currently not used, sig_name_init is used instead.
?S:.
?S:sig_name_init:
?S: This variable holds the signal names, enclosed in double quotes and
?S: separated by commas, suitable for use in the SIG_NAME definition
?S: below.  A "ZERO" is prepended to the list, and the list is
?S: terminated with a plain 0.  The leading SIG in signal names
?S: is removed. See sig_num.
?S:.
?S:sig_num:
?S: This variable holds the signal numbers, space separated. A ZERO is
?S: prepended
 to the list (corresponding to the fake SIGZERO).
?S: Those numbers correspond to  the value of the signal listed
?S: in the same place within the sig_name list.
?S: This is currently not used, sig_num_init is used instead.
?S:.
?S:sig_num_init:
?S: This variable holds the signal numbers, enclosed in double quotes and
?S: separated by commas, suitable for use in the SIG_NUM definition
?S: below.  A "ZERO" is prepended to the list, and the list is
?S: terminated with a plain 0.
?S:.
```

```
?S:sig_count (sig_name.U):
?S: This variable holds a number larger than the largest valid
?S: signal number.  This is usually the same as the NSIG macro.
?S:.
?S:sig_size:
?S: This variable contains the number of elements of the sig_name
?S: and sig_num arrays.
?S:.
?C:SIG_NAME:
?C: This symbol contains a list of signal names in order of
?C: signal number. This is intended
?C: to be used as a static array initialization, like this:
?C:  char *sig_name[] = { SIG_NAME };
?C: The signals in the list are separated
 with commas, and each signal
?C: is surrounded by double quotes. There is no leading SIG in the signal
?C: name, i.e. SIGQUIT is known as "QUIT".
?C: Gaps in the signal numbers (up to NSIG) are filled in with NUMnn,
?C: etc., where nn is the actual signal number (e.g. NUM37).
?C: The signal number for sig_name[i] is stored in sig_num[i].
?C: The last element is 0 to terminate the list with a NULL.  This
?C: corresponds to the 0 at the end of the sig_name_init list.
?C: Note that this variable is initialized from the sig_name_init,
?C: not from sig_name (which is unused).
?C:.
?C:SIG_NUM:
?C: This symbol contains a list of signal numbers, in the same order as the
?C: SIG_NAME list. It is suitable for static array initialization, as in:
?C:  int sig_num[] = { SIG_NUM };
?C: The signals in the list are separated with commas, and the indices
?C: within that list and the SIG_NAME list match, so it's easy to compute
?C: the signal name from a number or vice versa at the price of a small
?C: dynamic
 linear lookup.
?C: Duplicates are allowed, but are moved to the end of the list.
?C: The signal number corresponding to sig_name[i] is sig_number[i].
?C: if (i < NSIG) then sig_number[i] == i.
?C: The last element is 0, corresponding to the 0 at the end of
?C: the sig_name_init list.
?C: Note that this variable is initialized from the sig_num_init,
?C: not from sig_num (which is unused).
?C:.
?C:SIG_COUNT:
?C: This variable contains a number larger than the largest
?C: signal number.  This is usually the same as the NSIG macro.
?C:.
?C:SIG_SIZE:
?C: This variable contains the number of elements of the SIG_NAME
```

```
?C: and SIG_NUM arrays, excluding the final NULL entry.
?C:.
?H:#define SIG_NAME $sig_name_init  /**/
?H:#define SIG_NUM  $sig_num_init  /**/
?H:#define SIG_COUNT $sig_count   /**/
?H:#define SIG_SIZE $sig_size   /**/
?H:.
?T:i doinit
?F:!= !signal_cmd
?X: signal.cmd creates a file  signal.lst which has two columns:
?X: NAME  number, e.g.
?X:  HUP 1
?X: The list is
 sorted on signal number, with duplicates moved to
?X: the end..
: generate list of signal names
case "$sig_num_init" in
")
echo " "
case "$sig_name_init" in
") doinit=yes ;;
*)  case "$sig_num_init" in
   "|*,*) doinit=yes ;;
   esac ;;
esac
case "$doinit" in
yes)
 echo "Generating a list of signal names and numbers..." >&4
 . ./signal_cmd
 sig_count=`$awk '/^NSIG/ { printf "%d", $2 }' signal.lst`
 sig_name=`$awk 'BEGIN { printf "ZERO " }
   !/^NSIG/ { printf "%s ", $1 }' signal.lst`
 sig_num=`$awk  'BEGIN { printf "0 " }
   !/^NSIG/ { printf "%d ", $2 }' signal.lst`
 sig_name_init=`$awk 'BEGIN { printf "\"ZERO\", " }
        !/^NSIG/ { printf "\"%s\", ", $1 }
        END { printf "0\n" }' signal.lst`
 sig_num_init=`$awk  'BEGIN { printf "0, " }
        !/^NSIG/ { printf "%d, ", $2}
        END { printf "0\n"}' signal.lst`
 ;;
esac
echo "The following $sig_count signals are available:"
echo " "
echo $sig_name | $awk \
'BEGIN { linelen = 0 }
{
 for (i = 1; i <= NF; i++) {
```

```
  name
 = "SIG" $i " "
  linelen = linelen + length(name)
  if (linelen > 70) {
   printf "\n"
   linelen = length(name)
  }
  printf "%s", name
 }
 printf "\n"
}'
sig_size=`echo $sig_name | awk '{print NF}'`
$rm -f signal signal.c signal.awk signal.lst signal_cmd
;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/sig_name.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Extractall.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extractall.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:00:43  ram
?RCS: patch61: created
?RCS:
?X:
?X: If extraction has been requested, load the configuration file, perform
?X: the extraction and exit.
?X:
?X: This unit was originally a part of Options.U. It had to be removed from
?X: it to prevent a dependency cycle: Extract -> src -> Options -> Extract
?X: The Begin.U unit now requires us before beginning to do anything
?X: interesting, to ensure
 proper semantics. -- RAM, 15/03/96
?X:
?MAKE:Extractall: Extract Options
?MAKE: -pick wipe $@ %<
: extract files and exit if asked to do so
```

```
case "$extractsh" in
true)
?X: Undo the forced silent=true when -S was supplied, by probing realsilent
?X: which was set iff -s was also given. See Options.U for details.
 case "$realsilent" in
 true) ;;
 *) exec 1>&4;;
 esac
 case "$config_sh" in
 ") config_sh='config.sh';;
 esac
 echo " "
 echo "Fetching answers from $config_sh..."
 cd ..
 . $config_sh
?X: extract has to be run from the top directory, not within UU.
 . UU/optdef.sh
 echo " "
?X: extract has to be run from the top directory, not within UU.
 . UU/extract
 rm -rf UU
 echo "Extraction done."
 exit 0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Extractall.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_wctomb.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_wctomb.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:20:43  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_wctomb: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_wctomb:
?S: This variable conditionally defines the HAS_WCTOMB symbol, which
?S: indicates to the C program that the wctomb() routine is available
?S: to convert a wide character to a multibyte.
?S:.
?C:HAS_WCTOMB (WCTOMB):
?C: This
 symbol, if defined, indicates that the wctomb routine is available
?C: to convert a wide character to a multibyte.
?C:.
?H:#$d_wctomb HAS_WCTOMB  /**/
?H:.
?LINT:set d_wctomb
: see if wctomb exists
set wctomb d_wctomb
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_wctomb.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_poll.U,v $
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_langinfo: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_langinfo:
?S: This variable conditionally defines the I_LANGINFO symbol,
?S: and indicates whether a C program should include <langinfo.h>.
?S:.
?C:I_LANGINFO:
?C: This symbol, if defined, indicates that <langinfo.h> exists and
?C: should be included.
?C:.
?H:#$i_langinfo I_LANGINFO  /**/
?H:.
?LINT:set i_langinfo
: see if this is a langinfo.h system
set langinfo.h i_langinfo
eval $inhdr
```

Found in path(s):

* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_langinfo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_semctl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_semctl.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_semctl: Inlibc
?MAKE: -pick add $@ %<
?S:d_semctl:
?S: This variable conditionally defines the HAS_SEMCTL symbol, which
?S: indicates to the C program that the semctl() routine is available.
?S:.
?C:HAS_SEMCTL:
?C: This symbol, if defined, indicates that the semctl() routine is
?C: available to perform semaphore control operations.
?C:.
?H:#$d_semctl
 HAS_SEMCTL /**/
?H:.
?LINT:set d_semctl
: see if semctl exists
set semctl d_semctl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_semctl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Oldsym.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:06:58  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit follows the creation of the config.sh file. It adds some
?X: special symbols: defines from patchlevel.h file if any and CONFIG,
?X: which is set to true. Then, we try to keep all the new symbols that
?X: may come from a hint file or a previous config.sh file.
?X:
?MAKE:Oldsym:
 Config_sh Options test hint src sed sort uniq
?MAKE: -pick add $@ %<
?T:CONFIG sym tmp
?F:!UU
: add special variables
$test -f $src/patchlevel.h && \
awk '/^#define/ {printf "%s=%s\n",$2,$3}' $src/patchlevel.h >>config.sh
echo "CONFIG=true" >>config.sh

: propagate old symbols
if $test -f UU/config.sh; then
?X: Make sure each symbol is unique in oldconfig.sh
 <UU/config.sh $sort | $uniq >UU/oldconfig.sh
?X:
?X: All the symbols that appear twice come only from config.sh (hence the
?X: two config.sh in the command line). These symbols will be removed by
?X: the uniq -u command. The oldsyms file thus contains all the symbols
?X: that did not appear in the produced config.sh (Larry Wall).
?X:
?X: Do not touch the -u flag of uniq.  This means you too, Jarkko.
?X:
 $sed -n 's/^\([a-zA-Z_0-9]*\)=.*/\1/p' \
  config.sh config.sh UU/oldconfig.sh |\
  $sort | $uniq -u >UU/oldsyms
 set X `cat UU/oldsyms`
 shift
 case $# in
 0) ;;
 *)
  cat <<EOM
Hmm...You had some extra variables I don't know about...I'll
```

```
 try to keep 'em...
EOM
  echo ": Variables propagated from previous config.sh file." >>config.sh
  for sym in `cat UU/oldsyms`; do
   echo "    Propagating $hint variable "'$'"$sym..."
   eval 'tmp="$"${sym}"'"
   echo "$tmp" | \
    sed -e "s/'/'\''\''/g" -e "s/^/$sym='/" -e "s/$/'/" >>config.sh
  done
  ;;
 esac
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Oldsym.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: AAAAA.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: AAAAA.U,v $
?RCS: Revision 3.0.1.4  1994/06/20  06:50:26  ram
?RCS: patch30: changes from Jarkko Hietaniemi are tagged with JHI
?RCS:
?RCS: Revision 3.0.1.3  1994/05/06  14:01:39  ram
?RCS: patch23: initials for Wayne Davison are now WED
?RCS: patch23: added initials for new unit contributor Andy Dougherty
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:01:09  ram
?RCS: patch16: make metalint shut up on special unit definition for All target
?RCS:
?RCS: Revision
 3.0.1.1  1993/09/13  15:43:57  ram
?RCS: patch10: documents initials used for Wayne Davison's contributions
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this file is to supply the head of the Makefile created
```

```
?X: by metaconfig.  For this reason it must be first in alphabetical order.
?X: The leading '+' in front of the unit name is a hint for metalint, since
?X: the use of that special unit name as a "made" unit is legitimate here.
?X:
?MAKE:+All: Finish
?X:
?X: Throughout the units, the following initials are used to identify comments:
?X:
?X:  HMS: Harlan Stenn
?X:  RAM: Raphael Manfredi
?X:  WED: Wayne Davison (was WAD by mistake--RAM)
?X:  ADO: Andy Dougherty
?X:  JHI: Jarkko Hietaniemi
?X:
?X: Agreed, this is a weird place to document it, but I couldn't find a better
?X: place to do so. I've bet on the curiosity of users, who would probably
?X: want to know what's in this strangely-named file--RAM.
```

Found
 in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/AAAAA.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: prefix.U,v 3.1 1999/07/08 18:27:51 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: prefix.U,v $
?RCS: Revision 3.1  1999/07/08 18:27:51  doughera
?RCS: 5.005_5x version -- Andy Dougherty
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:44:05  ram
?RCS: patch49: new prefixexp variable holding a fully expanded prefix
?RCS: patch49: save off previous prefix value in oldprefix if changed (WED)
?RCS: patch49: added the INSTALLPREFIX define for C programs to use (WED)
?RCS:
?RCS:
 Revision 3.0.1.1  1994/08/29  16:31:34  ram
?RCS: patch32: created by ADO
```

```
?RCS:
?MAKE:prefix prefixexp +oldprefix: Getfile Loc Oldconfig cat package
?MAKE: -pick add $@ %<
?S:prefix:
?S: This variable holds the name of the directory below which the
?S: user will install the package.  Usually, this is /usr/local, and
?S: executables go in /usr/local/bin, library stuff in /usr/local/lib,
?S: man pages in /usr/local/man, etc.  It is only used to set defaults
?S: for things in bin.U, mansrc.U, privlib.U, or scriptdir.U.
?S:.
?S:prefixexp:
?S: This variable holds the full absolute path of the directory below
?S: which the user will install the package.  Derived from prefix.
?S:.
?S:oldprefix:
?S: This variable is set non-null if the prefix was previously defined
?S: and gets set to a new value. Used internally by Configure only.
?S:.
?C:INSTALLPREFIX:
?C: This symbol contains the name of the install prefix for this package.
?C:.
?H:#define INSTALLPREFIX "$prefix"  /**/
?H:.
:
 determine root of directory hierarchy where package will be installed.
case "$prefix" in
") dflt=`./loc . /usr/local /usr/local /local /opt /usr`
 ;;
*) dflt="$prefix"
 ;;
esac
$cat <<EOM

By default, $package will be installed in $dflt/bin, manual pages
under $dflt/man, etc..., i.e. with $dflt as prefix for all
installation directories. Typically this is something like /usr/local.
If you wish to have binaries under /usr/bin but other parts of the
installation under /usr/local, that's ok: you will be prompted
separately for each of the installation directories, the prefix being
only used to set the defaults.

EOM
fn=d~
rp='Installation prefix to use?'
. ./getfile
oldprefix="
case "$prefix" in
") ;;
```

```
*) case "$ans" in
 "$prefix") ;;
 *) oldprefix="$prefix";;
 esac
 ;;
esac

case "$ans" in
*?/) prefix=`echo "$ans" | sed 's/.$//'`
 ;;
*) prefix="$ans"
esac

case "$ansexp" in
*?/) prefixexp=`echo "$ansexp" | sed 's/.$//'`
 ;;
*) prefixexp="$ansexp"
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/prefix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_shmctl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_shmctl.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:18  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_shmctl: Inlibc
?MAKE: -pick add $@ %<
?S:d_shmctl:
?S: This variable conditionally defines the HAS_SHMCTL symbol, which
?S: indicates to the C program that the shmctl() routine is available.
?S:.
?C:HAS_SHMCTL:
?C: This symbol, if defined, indicates that the shmctl() routine is
?C: available to perform shared memory control operations.
?C:.
```

```
?H:#$d_shmctl
 HAS_SHMCTL  /**/
?H:.
?LINT:set d_shmctl
: see if shmctl exists
set shmctl d_shmctl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_shmctl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setnent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_setnent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setnent: Inlibc
?MAKE: -pick add $@ %<
?S:d_setnent:
?S: This variable conditionally defines HAS_SETNETENT if setnetent() is
?S: available.
?S:.
?C:HAS_SETNETENT:
?C: This symbol, if defined, indicates that the setnetent() routine is
?C: available.
?C:.
?H:#$d_setnent HAS_SETNETENT  /**/
?H:.
?LINT:set d_setnent
: see if setnetent exists
set
 setnetent d_setnent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_setnent.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtoq: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtoq:
?S: This variable conditionally defines the HAS_STRTOQ symbol, which
?S: indicates to the C program that the strtoq() routine is available.
?S:.
?C:HAS_STRTOQ:
?C: This symbol, if defined, indicates that the strtoq routine is
?C: available to convert strings to long longs (quads).
?C:.
?H:#$d_strtoq HAS_STRTOQ  /**/
?H:.
?LINT:set d_strtoq
: see if strtoq exists
set strtoq d_strtoq
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strtoq.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: registers.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: registers.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:19:41  ram
?RCS: patch61: removed empty ?LINT lines
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:28:33  ram
?RCS: patch36: call ./Cppsym explicitly instead of relying on PATH
?RCS:
```

```
?RCS: Revision 3.0  1993/08/18  12:09:41  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:registers reg1 reg2 reg3 reg4 reg5 reg6 reg7 reg8 reg9 reg10 reg11 \
 reg12 reg13 reg14 reg15 reg16: awk rm Cppsym
 Myread Oldconfig
?MAKE: -pick add $@ %<
?S:registers:
?S: This variable contains the number of register declarations paid
?S: attention to by the C compiler.
?S:.
?S:reg1:
?S: This variable, along with reg2, reg3, etc. contains the eventual
?S: value for the symbols register1, register2, register3, etc.  It has
?S: either the value "register" or is null.
?S:.
?C:register1:
?C: This symbol, along with register2, register3, etc. is either the word
?C: "register" or null, depending on whether the C compiler pays attention
?C: to this many register declarations.  The intent is that you don't have
?C: to order your register declarations in the order of importance, so you
?C: can freely declare register variables in sub-blocks of code and as
?C: function parameters.  Do not use register<n> more than once per routine.
?C:.
?LINT:describe reg2 reg3 reg4 reg5 reg6 reg7 reg8 reg9 reg10 reg11
?LINT:describe reg12 reg13 reg14 reg15 reg16
?LINT:known register2 register3 register4 register5 register6
 register7
?LINT:known register8 register9 register10 register11 register12 register13
?LINT:known register14 register15 register16
?H:#define register1 $reg1  /**/
?H:#define register2 $reg2  /**/
?H:#define register3 $reg3  /**/
?H:#define register4 $reg4  /**/
?H:#define register5 $reg5  /**/
?H:#define register6 $reg6  /**/
?H:#define register7 $reg7  /**/
?H:#define register8 $reg8  /**/
?H:#define register9 $reg9  /**/
?H:#define register10 $reg10 /**/
?H:#define register11 $reg11 /**/
?H:#define register12 $reg12 /**/
?H:#define register13 $reg13 /**/
?H:#define register14 $reg14 /**/
?H:#define register15 $reg15 /**/
?H:#define register16 $reg16 /**/
?H:.
?F:!.foo
```

```
: see how many register declarations we want to use
case "$registers" in
")
 if ./Cppsym vax; then
  dflt=6
 elif ./Cppsym sun mc68000 mips; then
  dflt=10
 elif ./Cppsym pyr; then
  dflt=14
 elif ./Cppsym ns32000 ns16000; then
  dflt=5
 elif ./Cppsym $smallmach; then
  dflt=3
 else
  : if you have any other numbers
 for me, please send them in
  dflt=6
 fi;;
*) dflt=$registers ;;
esac
?LINT:set reg2 reg3 reg4 reg5 reg6 reg7 reg8 reg9 reg10 reg11
?LINT:set reg12 reg13 reg14 reg15 reg16
cat <<EOM

Different C compilers on different machines pay attention to different numbers
of register declarations.  About how many register declarations in each routine
does your C compiler pay attention to?  (OK to guess)

EOM
rp="Maximum register declarations?"
. ./myread
registers=$ans
reg1="
$awk "BEGIN { for (i=1; i<=16; i++) printf \"reg%d="\n\", i}" \
 </dev/null >.foo
. ./.foo
$awk "BEGIN { for (i=1; i<=$registers; i++) printf \"reg%d=register\n\", i}" \
 </dev/null >.foo
. ./.foo
$rm -f .foo
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/registers.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_getpwent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi

```
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getpwent_r getpwent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_pwd extern_C
?MAKE: -pick add $@ %<
?S:d_getpwent_r:
?S: This variable conditionally defines the HAS_GETPWENT_R symbol,
?S: which indicates to the C program that the getpwent_r()
?S: routine is available.
?S:.
?S:getpwent_r_proto:
?S: This variable encodes the prototype of getpwent_r.
?S: It is zero if d_getpwent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getpwent_r
?S: is defined.
?S:.
?C:HAS_GETPWENT_R:
?C: This symbol, if defined, indicates that the getpwent_r routine
?C: is available to
 getpwent re-entrantly.
?C:.
?C:GETPWENT_R_PROTO:
?C: This symbol encodes the prototype of getpwent_r.
?C: It is zero if d_getpwent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getpwent_r
?C: is defined.
?C:.
?H:#$d_getpwent_r HAS_GETPWENT_R /**/
?H:#define GETPWENT_R_PROTO $getpwent_r_proto /**/
?H:.
?T:try hdrs d_getpwent_r_proto
: see if getpwent_r exists
set getpwent_r d_getpwent_r
eval $inlibc
case "$d_getpwent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_pwd pwd.h"
 case "$d_getpwent_r_proto:$usethreads" in
 ":define") d_getpwent_r_proto=define
  set d_getpwent_r_proto getpwent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getpwent_r_proto" in
```

```
define)
case "$getpwent_r_proto" in
"|0) try='int getpwent_r(struct passwd*, char*, size_t, struct passwd**);'
./protochk "$extern_C $try" $hdrs && getpwent_r_proto=I_SBWR ;;
esac
case "$getpwent_r_proto" in
"|0) try='int getpwent_r(struct passwd*, char*, int, struct passwd**);'
./protochk
"$extern_C $try" $hdrs && getpwent_r_proto=I_SBIR ;;
esac
case "$getpwent_r_proto" in
"|0) try='struct passwd* getpwent_r(struct passwd*, char*, size_t);'
./protochk "$extern_C $try" $hdrs && getpwent_r_proto=S_SBW ;;
esac
case "$getpwent_r_proto" in
"|0) try='struct passwd* getpwent_r(struct passwd*, char*, int);'
./protochk "$extern_C $try" $hdrs && getpwent_r_proto=S_SBI ;;
esac
case "$getpwent_r_proto" in
"|0) try='int getpwent_r(struct passwd*, char*, int);'
./protochk "$extern_C $try" $hdrs && getpwent_r_proto=I_SBI ;;
esac
case "$getpwent_r_proto" in
"|0) try='int getpwent_r(struct passwd*, char*, int, FILE**);'
./protochk "$extern_C $try" $hdrs && getpwent_r_proto=I_SBIH ;;
esac
case "$getpwent_r_proto" in
"|0) d_getpwent_r=undef
 getpwent_r_proto=0
 echo "Disabling getpwent_r, cannot determine prototype." >&4 ;;
* ) case "$getpwent_r_proto" in
 REENTRANT_PROTO*) ;;
 *) getpwent_r_proto="REENTRANT_PROTO_$getpwent_r_proto" ;;
 esac
 echo
"Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "getpwent_r has no prototype, not using it." >&4 ;;
 esac
 d_getpwent_r=undef
 getpwent_r_proto=0
 ;;
esac
;;
*) getpwent_r_proto=0
;;
```

```
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getpwent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Config_sh.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  14:57:53  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.2  1995/01/11  14:53:31  ram
?RCS: patch45: moved path stripping from d_portable.U to end of Configure
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:50:37  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit ends up producing the config.sh
 script, which contains all the
?X: definitions figured out by Configure.  The add.Config_sh command knows
?X: which variables need to be remembered.  It also adds the EOT (ends the
?X: here document redirection with variable substitution).
?X:
?MAKE:Config_sh: cf_time cf_by test spitshell startsh myuname Myread \
 End Obsol_sh Loc +d_portable package src cat sed
?MAKE: -pick add.Config_sh $@ %<
?MAKE: -pick add $@ ./Obsol_sh
?MAKE: -pick close.Config_sh $@ %<
?F:!config.over !config.arch
?T:file sfile xsed
?LINT:unclosed EOT
: back to where it started
if test -d ../UU; then
 cd ..
```

```
fi

: configuration may be unconditionally patched via a 'config.arch' file
if $test -f config.arch; then
 echo "I see a config.arch file, loading it." >&4
 . ./config.arch
fi

: configuration may be patched via a 'config.over' file
if $test -f config.over; then
 echo " "
 dflt=y
 rp='I see a config.over file.  Do you wish to load it?'
 . UU/myread
 case "$ans" in
 n*) echo "OK, I'll ignore it.";;
 *) . ./config.over
  echo
 "Configuration override changes have been loaded."
  ;;
 esac
fi

@if d_portable
: in case they want portability, strip down executable paths
?X:
?X: Strip down paths in located executables. For each file, e.g. vi, there
?X: is a $vi variable whose value is for instance '/usr/bin/vi'. By resetting
?X: $vi to 'vi', we rely on the PATH variable to locate the executable...
?X: In order to allow vi='/usr/bin/nvi' which will strip down to vi='nvi',
?X: we can't just say 'eval $file="\$file"', we have to recourse to sed.
?X: We don't use basename since it is less portable than sed.
?X:
case "$d_portable" in
"$define")
 echo " "
 echo "Stripping down executable paths..." >&4
 xsed=$sed
 for file in $loclist $trylist; do
  eval sfile="\$$file"
  sfile=`echo $sfile | $xsed -e 's,.*/\(.*\),\1,'`
  eval $file="$sfile"
 done
 ;;
esac

@end
: create config.sh file
```

```
echo " "
echo "Creating config.sh..." >&4
$spitshell <<EOT >config.sh
$startsh
#
# This file was produced by running the
 Configure script. It holds all the
# definitions figured out by Configure. Should you modify one of these values,
# do not forget to propagate your changes by running "Configure -der". You may
# instead choose to run each of the .SH files by yourself, or "Configure -S".
#

# Package name      : $package
# Source directory  : $src
# Configuration time: $cf_time
# Configured by     : $cf_by
# Target system     : $myuname

EOT
?X: Command line options are saved by the Options.U unit in the
?X: temporary file UU/cmdline.opt
$test -f UU/cmdline.opt && $cat UU/cmdline.opt >> config.sh
$spitshell <<EOT >>config.sh
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Config_sh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: bin.U,v $
?RCS: Revision 3.0.1.4  1995/09/25  09:15:32  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:32:40  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:05:28  ram
?RCS: patch32: now uses installation prefix
```

```
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  15:56:51  ram
?RCS: patch10: made prompting more explicit (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18
  12:05:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:bin binexp installbin: Prefixit Getfile Oldconfig afs cat test
?MAKE: -pick add $@ %<
?Y:TOP
?S:bin:
?S: This variable holds the name of the directory in which the user wants
?S: to put publicly executable images for the package in question.  It
?S: is most often a local directory such as /usr/local/bin. Programs using
?S: this variable must be prepared to deal with ~name substitution.
?S:.
?S:binexp:
?S: This is the same as the bin variable, but is filename expanded at
?S: configuration time, for use in your makefiles.
?S:.
?S:installbin:
?S: This variable is the same as binexp unless AFS is running in which case
?S: the user is explicitly prompted for it. This variable should always
?S: be used in your makefiles for maximum portability.
?S:.
?C:BIN:
?C: This symbol holds the path of the bin directory where the package will
?C: be installed. Program must be prepared to deal with ~name substitution.
?C:.
?C:BIN_EXP:
?C: This
 symbol is the filename expanded version of the BIN symbol, for
?C: programs that do not want to deal with that at run-time.
?C:.
?H:#define BIN "$bin" /**/
?H:#define BIN_EXP "$binexp" /**/
?H:.
?D:bin='/usr/local/bin'
: determine where public executables go
echo " "
set dflt bin bin
eval $prefixit
fn=d~
rp='Pathname where the public executables will reside?'
. ./getfile
if $test "X$ansexp" != "X$binexp"; then
 installbin="
```

```
fi
bin="$ans"
binexp="$ansexp"
if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
executables reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installbin" in
 ") dflt=`echo $binexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installbin";;
 esac
 fn=de~
 rp='Where will public executables be installed?'
 . ./getfile
 installbin="$ans"
else
 installbin="$binexp"
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/bin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_difftime.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_difftime.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:31  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_difftime: Inlibc
?MAKE: -pick add $@ %<
?S:d_difftime:
?S: This variable conditionally defines the HAS_DIFFTIME symbol, which
```

```
?S: indicates to the C program that the difftime() routine is available.
?S:.
?C:HAS_DIFFTIME :
?C: This symbol, if defined, indicates that
 the difftime routine is
?C: available.
?C:.
?H:#$d_difftime HAS_DIFFTIME  /**/
?H:.
?LINT:set d_difftime
: see if difftime exists
set difftime d_difftime
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_difftime.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_lrint: Inlibc
?MAKE: -pick add $@ %<
?S:d_lrint:
?S: This variable conditionally defines the HAS_LRINT symbol, which
?S: indicates to the C program that the lrint() routine is available
?S: to return the integral value closest to a double (according
?S: to the current rounding mode).
?S:.
?C:HAS_LRINT:
?C: This symbol, if defined, indicates that the lrint routine is
?C: available to return the integral value closest to a double
?C: (according to the current rounding mode).
?C:.
?H:#$d_lrint HAS_LRINT  /**/
?H:.
?LINT:set d_lrint
: see if lrint exists
set lrint d_lrint
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_lrint.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_htonl.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_htonl.U,v $
?RCS: Revision 3.0.1.2  1994/08/29  16:09:25  ram
?RCS: patch32: now properly handles htonl() and friends when macros (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:45:00  ram
?RCS: patch23: now also check for htonl() macro (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:22  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_htonl: Inlibc Setvar i_niin i_sysin i_arpainet cat rm contains \
 cppstdin cppflags cppminus
?MAKE: -pick
 add $@ %<
?S:d_htonl:
?S: This variable conditionally defines HAS_HTONL if htonl() and its
?S: friends are available to do network order byte swapping.
?S:.
?C:HAS_HTONL (HTONL):
?C: This symbol, if defined, indicates that the htonl() routine (and
?C: friends htons() ntohl() ntohs()) are available to do network
?C: order byte swapping.
?C:.
?C:HAS_HTONS (HTONS):
?C: This symbol, if defined, indicates that the htons() routine (and
?C: friends htonl() ntohl() ntohs()) are available to do network
?C: order byte swapping.
?C:.
?C:HAS_NTOHL (NTOHL):
?C: This symbol, if defined, indicates that the ntohl() routine (and
?C: friends htonl() htons() ntohs()) are available to do network
?C: order byte swapping.
?C:.
?C:HAS_NTOHS (NTOHS):
?C: This symbol, if defined, indicates that the ntohs() routine (and
?C: friends htonl() htons() ntohl()) are available to do network
?C: order byte swapping.
?C:.
?H:#$d_htonl HAS_HTONL  /**/
```

```
?H:#$d_htonl HAS_HTONS  /**/
?H:#$d_htonl HAS_NTOHL  /**/
?H:#$d_htonl
 HAS_NTOHS  /**/
?H:.
?F:!htonl.c
?LINT:set d_htonl
: see if htonl --and friends-- exists
val=''
set htonl val
eval $inlibc

: Maybe they are macros.
case "$val" in
$undef)
 $cat >htonl.c <<EOM
#include <stdio.h>
#include <sys/types.h>
#$i_niin I_NETINET_IN
#$i_sysin I_SYS_IN
#$i_arpainet I_ARPA_INET
#ifdef I_NETINET_IN
#include <netinet/in.h>
#endif
#ifdef I_SYS_IN
#include <sys/in.h>
#endif
#ifdef I_ARPA_INET
#include <arpa/inet.h>
#endif
#ifdef htonl
printf("Defined as a macro.");
#endif
EOM
 $cppstdin $cppflags $cppminus < htonl.c >htonl.E 2>/dev/null
 if $contains 'Defined as a macro' htonl.E >/dev/null 2>&1; then
  val="$define"
  echo "But it seems to be defined as a macro." >&4
 fi
 $rm -f htonl.?
 ;;
esac
set d_htonl
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_htonl.U

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```
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:byteorder: cat Myread Oldconfig Loc +cc +ccflags rm_try
?MAKE: -pick add $@ %<
?S:byteorder:
?S: This variable holds the byte order. In the following, larger digits
?S: indicate more significance.  The variable byteorder is either 4321
?S: on a big-endian machine, or 1234 on a little-endian, or 87654321
?S: on a Cray ... or 3412 with weird order !
?S:.
?C:BYTEORDER:
?C: This symbol hold the hexadecimal constant defined in byteorder,
?C: i.e. 0x1234 or 0x4321, etc...
?C:.
?H:#define BYTEORDER 0x$byteorder /*
 large digits for MSB */
?H:.
?T:xxx_prompt
?F:!try
: check for ordering of bytes in a long
case "$byteorder" in
")
 $cat <<'EOM'

In the following, larger digits indicate more significance.  A big-endian
machine like a Pyramid or a Motorola 680?0 chip will come out to 4321. A
little-endian machine like a Vax or an Intel 80?86 chip would be 1234. Other
machines may have weird orders like 3412.  A Cray will report 87654321. If
the test program works the default is probably right.
I'm now running the test program...
EOM
 $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
 int i;
 union {
  unsigned long l;
  char c[sizeof(long)];
```

```
 } u;

 if (sizeof(long) > 4)
  u.l = (0x08070605L << 32) | 0x04030201L;
 else
  u.l = 0x04030201L;
 for (i = 0; i < sizeof(long); i++)
  printf("%c", u.c[i]+'0');
 printf("\n");
 exit(0);
}
EOCP
 xxx_prompt=y
 if $cc $ccflags -o try try.c >/dev/null 2>&1 && ./try > /dev/null; then
  dflt=`./try`
  case "$dflt" in
  [1-4][1-4][1-4][1-4]|12345678|87654321)
   echo
 "(The test program ran ok.)"
   echo "byteorder=$dflt"
   xxx_prompt=n
   ;;
  ????|????????) echo "(The test program ran ok.)" ;;
  *) echo "(The test program didn't run right for some reason.)" ;;
  esac
 else
  dflt='4321'
  cat <<'EOM'
(I can't seem to compile the test program.  Guessing big-endian...)
EOM
 fi
 case "$xxx_prompt" in
 y)
  rp="What is the order of bytes in a long?"
  . ./myread
  byteorder="$ans"
  ;;
 *) byteorder=$dflt
  ;;
 esac
 ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/byteorder.U

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```
?RCS: $Id$
?RCS:
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?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_vprintf.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:59  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_vprintf d_charvspr: Guess cat +cc +ccflags Csym Setvar
?MAKE: -pick add $@ %<
?S:d_vprintf:
?S: This variable conditionally defines the HAS_VPRINTF symbol, which
?S: indicates to the C program that the vprintf() routine is available
?S: to printf with a pointer to an argument list.
?S:.
?S:d_charvspr:
?S: This variable conditionally defines CHARVSPRINTF if this system
?S: has
 vsprintf returning type (char*).  The trend seems to be to
?S: declare it as "int vsprintf()".
?S:.
?C:HAS_VPRINTF (VPRINTF):
?C: This symbol, if defined, indicates that the vprintf routine is available
?C: to printf with a pointer to an argument list.  If unavailable, you
?C: may need to write your own, probably in terms of _doprnt().
?C:.
?C:USE_CHAR_VSPRINTF (CHARVSPRINTF):
?C: This symbol is defined if this system has vsprintf() returning type
?C: (char*).  The trend seems to be to declare it as "int vsprintf()".  It
?C: is up to the package author to declare vsprintf correctly based on the
?C: symbol.
?C:.
?H:#$d_vprintf HAS_VPRINTF /**/
?H:#$d_charvspr USE_CHAR_VSPRINTF  /**/
?H:.
?F:!vprintf !vprintf.c
?T:val2
?LINT:set d_vprintf d_charvspr
: see if vprintf exists
echo " "
```

```
if set vprintf val -f d_vprintf; eval $csym; $val; then
 echo 'vprintf() found.' >&4
 val="$define"
 $cat >vprintf.c <<'EOF'
#include <varargs.h>

int main() { xxx("foo"); }

xxx(va_alist)
va_dcl
{
 va_list args;
 char
 buf[10];

 va_start(args);
 exit((unsigned long)vsprintf(buf,"%s",args) > 10L);
}
EOF
 if $cc $ccflags -o vprintf vprintf.c >/dev/null 2>&1 && ./vprintf; then
  echo "Your vsprintf() returns (int)." >&4
  val2="$undef"
 else
  echo "Your vsprintf() returns (char*)." >&4
  val2="$define"
 fi
else
 echo 'vprintf() NOT found.' >&4
  val="$undef"
  val2="$undef"
fi
set d_vprintf
eval $setvar
val=$val2
set d_charvspr
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_vprintf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sitearch.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:21:30  ram
?RCS: patch61: created
?RCS:
?MAKE:sitearch sitearchexp installsitearch: afs cat Getfile \
 Oldconfig Prefixit prefix test archname sitelib
?MAKE: -pick add $@ %<
?Y:TOP
?S:sitearch:
?S: This variable contains the eventual value of the SITEARCH symbol,
?S: which is the name of the private library for this package.  It may
?S: have a ~ on the front. It is up to the makefile to eventually create
?S: this
 directory while performing installation (with ~ substitution).
?S:.
?S:sitearchexp:
?S: This variable is the ~name expanded version of sitearch, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?S:installsitearch:
?S: This variable is really the same as sitearchexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?C:SITEARCH:
?C: This symbol contains the name of the private library for this package.
?C: The library is private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.  The program
?C: should be prepared to do ~ expansion.
?C: The standard distribution will put nothing in this directory.
?C: Individual sites may place their own extensions and modules in
?C: this directory.
?C:.
?C:SITEARCH_EXP:
?C: This symbol contains the ~name expanded version of SITEARCH, to be used
?C: in programs that are not prepared to deal
 with ~ expansion at run-time.
?C:.
?H:#define SITEARCH "$sitearch"  /**/
?H:#define SITEARCH_EXP "$sitearchexp"  /**/
?H:.
?T:xxx
: determine where site specific architecture-dependent libraries go.
```

```
xxx=`echo $sitelib/$archname | sed 's!^$prefix!!'`
: xxx is usually lib/site_perl/archname.
set sitearch sitearch none
eval $prefixit
case "$sitearch" in
") dflt="$sitelib/$archname" ;;
*) dflt="$sitearch" ;;
esac
$cat <<EOM

The installation process will also create a directory for
architecture-dependent site-specific extensions and modules.

EOM
fn=nd~+
rp='Pathname for the site-specific architecture-dependent library files?'
. ./getfile
if $test "X$sitearchexp" != "X$ansexp"; then
 installsitearch="
fi
sitearch="$ans"
sitearchexp="$ansexp"
if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
private files reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case
 "$installsitearch" in
 ") dflt=`echo $sitearchexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installsitearch";;
 esac
 fn=de~
 rp='Where will private files be installed?'
 . ./getfile
 installsitearch="$ans"
else
 installsitearch="$sitearchexp"
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/sitearch.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sysman.U,v 3.0.1.2 1994/06/20 07:08:43 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sysman.U,v $
?RCS: Revision 3.0.1.2  1994/06/20  07:08:43  ram
?RCS: patch30: now explicitly states that /usr/man/man1 is the default
?RCS: patch30: added /usr/local/man/man1 to the search list
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:13:50  ram
?RCS: patch10: added support for /local/man/man1 (WAD)
?RCS: patch10: added temporary syspath variable to cut down on line length
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:55  ram
?RCS: Baseline for dist 3.0 netwide
 release.
?RCS:
?MAKE:sysman: test Loc Oldconfig
?MAKE: -pick add $@ %<
?S:sysman:
?S: This variable holds the place where the manual is located on this
?S: system. It is not the place where the user wants to put his manual
?S: pages. Rather it is the place where Configure may look to find manual
?S: for unix commands (section 1 of the manual usually). See mansrc.
?S:.
?T:syspath
: determine where manual pages are on this system
echo " "
case "$sysman" in
")
 syspath='/usr/share/man/man1 /usr/man/man1'
 syspath="$syspath /usr/man/mann /usr/man/manl /usr/man/local/man1"
 syspath="$syspath /usr/man/u_man/man1"
 syspath="$syspath /usr/catman/u_man/man1 /usr/man/l_man/man1"
 syspath="$syspath /usr/local/man/u_man/man1 /usr/local/man/l_man/man1"
 syspath="$syspath /usr/man/man.L /local/man/man1 /usr/local/man/man1"
 sysman=`./loc . /usr/man/man1 $syspath`
 ;;
esac
if $test -d "$sysman"; then
 echo "System manual is in $sysman." >&4
else
```

```
 echo "Could not find manual pages in source form."
 >&4
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/sysman.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: defeditor.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: defeditor.U,v $
?RCS: Revision 3.0.1.1  1995/01/11  15:30:16  ram
?RCS: patch45: can now use the 'vi' variable since path stripping is deferred
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:defeditor: Getfile Oldconfig Loc vi
?MAKE: -pick add $@ %<
?S:defeditor:
?S: This variable contains the eventual value of the DEFEDITOR symbol,
?S: which contains the name of the default editor.
?S:.
?C:DEFEDITOR:
?C: This
 symbol contains the full pathname of the default editor.
?C:.
?H:#define DEFEDITOR "$defeditor"  /**/
?H:.
: determine default editor
echo " "
case "$defeditor" in
")
 case "$vi" in
 */*) dflt="$vi";;
 *) dflt=/usr/ucb/vi;;
 esac
 ;;
*)  dflt="$defeditor"
```

```
 ;;
esac
fn=f/
rp="What is the default editor on your system?"
. ./getfile
defeditor="$ans"
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/defeditor.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getservprotos.U,v $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_getservprotos : Hasproto i_netdb
?MAKE: -pick add $@ %<
?S:d_getservprotos:
?S: This variable conditionally defines the HAS_GETSERV_PROTOS symbol,
?S: which indicates to the C program that <netdb.h> supplies
?S: prototypes for the various getserv*() functions.
?S: See also netdbtype.U for probing for various netdb types.
?S:.
?C:HAS_GETSERV_PROTOS:
?C: This symbol, if defined, indicates that <netdb.h> includes
?C: prototypes for getservent(), getservbyname(), and
?C: getservbyaddr().  Otherwise,
 it is up to the program to guess
?C: them.  See netdbtype.U for probing for various Netdb_xxx_t types.
?C:.
?H:#$d_getservprotos HAS_GETSERV_PROTOS /**/
?H:.
?LINT:set d_getservprotos
: see if prototypes for various getservxxx netdb.h functions are available
echo " "
set d_getservprotos getservent $i_netdb netdb.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/d_getservprotos.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysstatvfs.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysstatvfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysstatvfs:
?S: This variable conditionally defines the I_SYSSTATVFS symbol,
?S: and indicates whether a C program should include <sys/statvfs.h>.
?S:.
?C:I_SYS_STATVFS:
?C: This symbol, if defined, indicates that <sys/statvfs.h> exists and
?C: should be included.
?C:.
?H:#$i_sysstatvfs I_SYS_STATVFS  /**/
?H:.
?LINT:set i_sysstatvfs
: see if this is a sys/statvfs.h system
set sys/statvfs.h i_sysstatvfs
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_sysstatvfs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: modetype.U,v 3.0.1.1 1994/10/29 16:25:07 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: modetype.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:25:07  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:modetype: Myread Typedef
```

```
?MAKE: -pick add $@ %<
?S:modetype:
?S: This variable defines modetype to be something like mode_t,
?S: int, unsigned short, or whatever type is used to declare file
?S: modes for system calls.
?S:.
?C:Mode_t:
?C: This symbol holds the type used to declare
 file modes
?C: for systems calls.  It is usually mode_t, but may be
?C: int or unsigned short.  It may be necessary to include <sys/types.h>
?C: to get any typedef'ed information.
?C:.
?H:#define Mode_t $modetype  /* file mode parameter for system calls */
?H:.
?LINT:set modetype
: see what type is used for mode_t
rp="What is the type used for file modes for system calls (e.g. fchmod())?"
set mode_t modetype int stdio.h sys/types.h
eval $typedef_ask
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/modetype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_portable.U,v 3.0.1.2 1995/01/11 15:28:52 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_portable.U,v $
?RCS: Revision 3.0.1.2  1995/01/11  15:28:52  ram
?RCS: patch45: executable path stripping moved to the end in Config_sh.U
?RCS:
?RCS: Revision 3.0.1.1  1993/12/15  08:21:17  ram
?RCS: patch15: did not strip variables properly when needed
?RCS: patch15: now also strips down variables from trylist
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?X:
   This is the same as the dist version, except I don't bother
?X:   prompting people since it makes no difference for perl5,
?X:   and only confuses people.
?X:
?X: The Loc unit is wanted to get the definition of all the locating variables.
?X:
?MAKE:d_portable: Loc Oldconfig
?MAKE: -pick add $@ %<
?S:d_portable:
?S: This variable conditionally defines the PORTABLE symbol, which
?S: indicates to the C program that it should not assume that it is
?S: running on the machine it was compiled on.
?S:.
?C:PORTABLE:
?C: This symbol, if defined, indicates to the C program that it should
?C: not assume that it is running on the machine it was compiled on.
?C: The program should be prepared to look up the host name, translate
?C: generic filenames, use PATH, etc.
?C:.
?H:#$d_portable PORTABLE /**/
?H:.
?D:d_portable="
: decide how portable to be.  Allow command line overrides.
case "$d_portable" in
"$undef") ;;
*) d_portable="$define" ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_portable.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_memcmp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memcmp.U,v $
?RCS: Revision 3.0.1.1  1993/09/13  16:02:35  ram
?RCS: patch10: removed text recommending bcmp over memcmp (WAD)
?RCS:
```

```
?RCS: Revision 3.0  1993/08/18  12:06:33  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_memcmp: Inlibc
?MAKE: -pick add $@ %<
?S:d_memcmp:
?S: This variable conditionally defines the HAS_MEMCMP symbol, which
?S: indicates to the C program that the memcmp() routine is available
?S: to compare blocks of
 memory.
?S:.
?C:HAS_MEMCMP (MEMCMP):
?C: This symbol, if defined, indicates that the memcmp routine is available
?C: to compare blocks of memory.
?C:.
?H:#$d_memcmp HAS_MEMCMP /**/
?H:.
?LINT:set d_memcmp
: see if memcmp exists
set memcmp d_memcmp
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_memcmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setnetent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_setnetent_r setnetent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_setnetent_r:
?S: This variable conditionally defines the HAS_SETNETENT_R symbol,
?S: which indicates to the C program that the setnetent_r()
?S: routine is available.
?S:.
?S:setnetent_r_proto:
?S: This variable encodes the prototype of setnetent_r.
?S: It is zero if d_setnetent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setnetent_r
?S: is defined.
```

```
?S:.
?C:HAS_SETNETENT_R:
?C: This symbol, if defined, indicates that the setnetent_r routine
?C: is
 available to setnetent re-entrantly.
?C:.
?C:SETNETENT_R_PROTO:
?C: This symbol encodes the prototype of setnetent_r.
?C: It is zero if d_setnetent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setnetent_r
?C: is defined.
?C:.
?H:#$d_setnetent_r HAS_SETNETENT_R /**/
?H:#define SETNETENT_R_PROTO $setnetent_r_proto /**/
?H:.
?T:try hdrs d_setnetent_r_proto
: see if setnetent_r exists
set setnetent_r d_setnetent_r
eval $inlibc
case "$d_setnetent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_setnetent_r_proto:$usethreads" in
 ":define") d_setnetent_r_proto=define
  set d_setnetent_r_proto setnetent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_setnetent_r_proto" in
 define)
 case "$setnetent_r_proto" in
 "|0) try='int setnetent_r(int, struct netent_data*);'
 ./protochk "$extern_C $try" $hdrs && setnetent_r_proto=I_ID ;;
 esac
 case "$setnetent_r_proto" in
 "|0) try='void setnetent_r(int, struct netent_data*);'
 ./protochk
 "$extern_C $try" $hdrs && setnetent_r_proto=V_ID ;;
 esac
 case "$setnetent_r_proto" in
 "|0) d_setnetent_r=undef
  setnetent_r_proto=0
  echo "Disabling setnetent_r, cannot determine prototype." >&4 ;;
 * ) case "$setnetent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) setnetent_r_proto="REENTRANT_PROTO_$setnetent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
```

```
 esac
 ;;
 *) case "$usethreads" in
  define) echo "setnetent_r has no prototype, not using it." >&4 ;;
  esac
  d_setnetent_r=undef
  setnetent_r_proto=0
  ;;
 esac
 ;;
*) setnetent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_setnetent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Head.U 6 2006-08-25 22:21:46Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Head.U,v $
?RCS: Revision 3.0.1.9  1997/02/28  15:02:09  ram
?RCS: patch61: make sure we unset CDPATH for shells that support this
?RCS: patch61: improved Korn shell detection and handling
?RCS:
?RCS: Revision 3.0.1.8  1995/07/25  13:40:02  ram
?RCS: patch56: added SVR4-ish /opt directories to path list (ADO)
?RCS: patch56: OS/2 platforms are using another path separator
?RCS:
?RCS: Revision 3.0.1.7  1995/03/21  08:46:15  ram
?RCS: patch52: definition of
 paths wrongly added spurious ':' chars
?RCS:
?RCS: Revision 3.0.1.6  1994/10/29  15:54:19  ram
?RCS: patch36: make sure ENV is unset before calling /bin/ksh
?RCS:
?RCS: Revision 3.0.1.5  1994/08/29  16:03:44  ram
?RCS: patch32: now sets PATH only using existing directories
?RCS:
```

```
?RCS: Revision 3.0.1.4  1994/06/20  06:54:28  ram
?RCS: patch30: now computes its invocation name into 'me'
?RCS: patch30: symbol me is made visible to all units read-only
?RCS:
?RCS: Revision 3.0.1.3  1993/12/15  08:15:07  ram
?RCS: patch15: added /sbin:/usr/sbin:/usr/libexec in PATH for BSD/386
?RCS:
?RCS: Revision 3.0.1.2  1993/11/10  17:32:35  ram
?RCS: patch14: ensure PATH is reset to '.' before testing for alias
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:38:07  ram
?RCS: patch7: not all 'test' programs support the -x option
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This is the very first unit in the Configure script.  It is mostly just
?X:
 things to keep people from getting into a tizzy right off the bat.
?X:
?MAKE:Head:
?MAKE: -pick wipe $@ %<
?V:PATH p_ _exe me newsh
?T:argv p paths OS2_SHELL DJGPP
?T:inksh needksh avoidksh newsh changesh reason
?F:!*
?LINT:extern ENV CDPATH SHELL MACHTYPE _exe is_os2
?LINT:change ENV CDPATH is_os2
?LINT:nocomment
#! /bin/sh
#
# If these # comments don't work, trim them. Don't worry about any other
# shell scripts, Configure will trim # comments from them for you.
#
# (If you are trying to port this package to a machine without sh,
# I would suggest you have a look at the prototypical config_h.SH file
# and edit it to reflect your system. Some packages may include samples
# of config.h for certain machines, so you might look for one of those.)
#
?X:
?X: NOTE THAT A CONFIGURE SCRIPT IS IN THE PUBLIC DOMAIN (whether or not
?X: the software which uses it is in the public domain).
?X:
# Yes, you may rip this off to use in other distribution packages. This
# script belongs to the public
 domain and cannot be copyrighted.
#
```

```
?X:
?X: WE ASK YOU NOT TO REMOVE OR ALTER THE FOLLOWING PARAGRAPH, PLEASE:
?X:
# Note: this Configure script was generated automatically by the tool
# called "metaconfig". Rather than working with this copy of Configure,
# you should use metaconfig. Perl uses a modified version of this
# tool, and this, together with the metaconfig units, are available
# in the git repository:
#    $ git clone https://github.com/Perl/metaconfig metaconfig
# The original dist package (including metaconfig) is available on github:
#    $ git clone https://github.com/rmanfredi/dist.git dist-git
#
?X: OK, I'll not alter, but I'll add to it then ...
# Though this script was generated by metaconfig from metaunits, it is
# OK to send patches against Configure itself (but not to commit them
# to blead). It's up to
# the Configure maintainers to backport the patch to the metaunits if it
# is accepted. Exceptions to this rule, and more information, is in
# Porting/pumpkin.pod.
?X:
?X:
 NOTA BENE:
?X: If you develop you own version of metaconfig based on this work,
?X: you have to add some comments telling that the script was generated
?X: by your version, not mine: It credits your work.
?X:

# Generated using [metaconfig <VERSION> PL<PATCHLEVEL>]
# with additional metaconfig patches from https://github.com/Perl/metaconfig

cat >c1$$ <<EOF
ARGGGHHHH!!!!!

SCO csh still thinks true is false.  Write to SCO today and tell them that next
year Configure ought to "rm /bin/csh" unless they fix their blasted shell. :-)

(Actually, Configure ought to just patch csh in place.  Hmm.  Hmmmmm.  All
we'd have to do is go in and swap the && and || tokens, wherever they are.)

[End of diatribe. We now return you to your regularly scheduled programming...]
EOF
cat >c2$$ <<EOF

OOPS!  You naughty creature!  You didn't run Configure with sh!
I will attempt to remedy the situation by running sh for you...
EOF

true || cat c1$$ c2$$
```

```
true || exec sh $0 $argv:q

(exit $?0) || cat
 c2$$
(exit $?0) || exec sh $0 $argv:q
rm -f c1$$ c2$$

if test -f /dev/cputype -a -f /dev/drivers -a -f /dev/osversion; then
 cat <<EOF
***
*** I'm sorry but this system looks like Plan 9 and Plan 9 doesn't do
*** Configure that well.  (Plan 9 is close to UNIX but not close enough.)
*** Please read the README.plan9 for further instructions.
*** Cannot continue, aborting.
***
EOF
 exit 1
fi

if test -f /sys/utilities/MultiView ; then
 # AmigaOS, test -c for /dev/null is not useful
 :
elif test ! -c /dev/null ; then
 cat <<EOF
***
*** I'm sorry, but /dev/null appears to be a file rather than a device.
*** Please consult your operating sytem's notes for making a device
*** in /dev.
*** Cannot continue, aborting.
***
EOF
 exit 1
fi

: compute my invocation name
me=$0
case "$0" in
*/*)
 me=`echo $0 | sed -e 's!.*/\(.*\)!\1!' 2>/dev/null`
 test "$me" || me=$0
 ;;
esac

?X:
?X: To be able to run under OS/2, we must detect that early enough to use
?X: the proper path separator, stored in $p_.
 It is : on UNIX and ; on
?X: DOS-ish systems such as OS/2.
```

```
?X:
: Proper separator for the PATH environment variable
p_=:
: On OS/2 this directory should exist if this is not floppy only system ":-]"
if test -d c:/. || ( uname -a | grep -i 'os\(/\|\)2' 2>&1 ) 2>&1 >/dev/null ; then
 if test -n "$OS2_SHELL"; then
  p_=\;
  PATH=`cmd /c "echo %PATH%" | tr '\\\\' / `
?X: That's a bug in ksh5.22
  OS2_SHELL=`cmd /c "echo %OS2_SHELL%" | tr '\\\\' / | tr '[A-Z]' '[a-z]'`
  is_os2=yes
 elif test -n "$DJGPP"; then
  case "X${MACHTYPE:-nonesuchmach}" in
  *cygwin|*msys) ;;
  *) p_=\; ;;
  esac
 fi
fi

?X:
?X: There are two schools of thoughts here. Some people correctly argue that
?X: the user has a better chance than we do of setting a reasonable PATH and
?X: others argue that Configure is the best place there is to set up a suitable
?X: PATH. Well, here we try to compromise by keeping the user's PATH and
?X: appending some directories which are known to work on some machine or the
?X: other.
 The rationale behind this being that a novice user might not have a
?X: proper environment variable set, and some directories like /etc (where
?X: chown is located on some BSD systems) may be missing--RAM.
?X:
?X: SVR4 adds an /opt directory for optional packages.  Some sites use
?X: various permutations on /opt as opposed to /usr or /usr/local.-- ADO
?X:
?X: We only add directories that are not already in the PATH of the
?X: user and the directories must exist also.
?X:
?X: 20040627, Merijn, HP-UX's ANSI compiler is in /opt/ansic/bin if present
?X:  and should be before /usr/ccs/bin, where the braindead bundled compiler
?X:  can be found. The /usr/ccs/bin compiler cannot be used to build perl.
?X:
: Proper PATH setting
paths='/bin /usr/bin /usr/local/bin /usr/ucb /usr/local /usr/lbin'
paths="$paths /opt/bin /opt/local/bin /opt/local /opt/lbin"
paths="$paths /usr/5bin /etc /usr/gnu/bin /usr/new /usr/new/bin /usr/nbin"
paths="$paths /opt/gnu/bin /opt/new /opt/new/bin /opt/nbin"
paths="$paths
 /sys5.3/bin /sys5.3/usr/bin /bsd4.3/bin /bsd4.3/usr/ucb"
paths="$paths /bsd4.3/usr/bin /usr/bsd /bsd43/bin /opt/ansic/bin /usr/ccs/bin"
```

```
paths="$paths /etc /usr/lib /usr/ucblib /lib /usr/ccs/lib"
paths="$paths /sbin /usr/sbin /usr/libexec"
paths="$paths /system/gnu_library/bin"

for p in $paths
do
 case "$p_$PATH$p_" in
 *$p_$p$p_*) ;;
 *) test -d $p && PATH=$PATH$p_$p ;;
 esac
done

PATH=.$p_$PATH
export PATH

: shall we be using ksh?
inksh=''
needksh=''
avoidksh=''
newsh=/bin/ksh
changesh=''
?X: Use (alias -x) and not (alias) since zsh and bash recognize the alias
?X: builtin but not the -x option which is typically ksh...
?X: We need to set up PATH before calling the "alias" built-in since some
?X: systems like HP-UX have a binary called /bin/alias.
if (PATH=.; alias -x) >/dev/null 2>&1; then
  inksh=true
fi
?X: On HP-UX, large Configure scripts may exercise a bug in /bin/sh, use ksh
if test -f /hp-ux -a -f /bin/ksh; then
 needksh='to avoid sh bug in "here document" expansion'
fi
?X:
 On AIX4, /bin/sh is really ksh and it causes problems, use sh
if test -d /usr/lpp -a -f /usr/bin/bsh -a -f /usr/bin/uname; then
 if test X`/usr/bin/uname -v` = X4; then
  avoidksh="to avoid AIX 4's /bin/sh"
  newsh=/usr/bin/bsh
 fi
fi
?X: On Digital UNIX, /bin/sh may start up buggy /bin/ksh, use sh
if test -f /osf_boot -a -f /usr/sbin/setld; then
 if test X`/usr/bin/uname -s` = XOSF1; then
  avoidksh="to avoid Digital UNIX' ksh"
  newsh=/bin/sh
?X: if BIN_SH is set to 'xpg4', sh will start up ksh
  unset BIN_SH
 fi
```

```
fi
?X: If we are not in ksh and need it, then feed us back to it
case "$inksh/$needksh" in
/[a-z]*)
?X: Clear ENV to avoid any ~/.kshrc that could alias cd or whatever...
?X: Don't use "unset ENV", that is not portable enough
  ENV=''
  changesh=true
  reason="$needksh"
 ;;
esac
?X: If we are in ksh and must avoid it, then feed us back to a new shell
case "$inksh/$avoidksh" in
true/[a-z]*)
 changesh=true
 reason="$avoidksh"
 ;;
esac
?X: Warn them if they use ksh on
 other systems, which are those where
?X: we don't need ksh nor want to avoid it explicitly, yet are using it.
case "$inksh/$needksh-$avoidksh-" in
true/--)
  cat <<EOM
(I see you are using the Korn shell.  Some ksh's blow up on $me,
mainly on older exotic systems.  If yours does, try the Bourne shell instead.)
EOM
 ;;
esac
case "$changesh" in
true)
 export newsh
 echo "(Feeding myself to $newsh $reason.)"
?X: Make sure they didn't say sh <Configure by checking whether $0 ends
?X: with Configure or not. If they did say sh <../../Configure, then too
?X: bad for them anyway, since we lost that path indication...
?X: Otherwise, execing $0 ensures we keep the full remote source dir
?X: indication for src.U.
 case "$0" in
 Configure|*/Configure) exec $newsh $0 "$@";;
 *) exec $newsh Configure "$@";;
 esac
 ;;
esac
?X: 2004.06.09 rac
?X: having $newsh persist as ksh here is bad news if ksh doesn't really
?X: exist. this causes us to toss away a perfectly good working test in
?X: bash in favor
```

```
 of more exotic external options. see bug 42665.
test -x "${newsh}" || unset newsh

?X: Unset CDPATH to avoid surprises when using cd under some shells
?X: Can't unset it because that's not portable to very old shells.
?X: Can't set it to '' because then bash 2.02 won't do "cd UU"  --AD  6/98.
?X: Don't want to set it to '.' because then ksh prints out the
?X: name of the directory every time you cd to it. --AD 6/98
?X: In order to inflict the least harm, change it only if it's set.
: if needed, set CDPATH to a harmless value that is not chatty
: avoid bash 2.02 problems with empty CDPATH.
case "$CDPATH" in
'') ;;
*) case "$SHELL" in
 *bash*) CDPATH='.' ;;
 *) CDPATH='' ;;
 esac
 ;;
esac

: Configure runs within the UU subdirectory
test -d UU || mkdir UU
?X: Use ./* to avoid any confirmation prompts from enhanced shells -- WED
cd UU && rm -f ./*
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Head.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getppid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_getppid.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:45  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_getppid: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_getppid:
?S: This variable conditionally defines the HAS_GETPPID symbol, which
?S: indicates to the C program that the getppid() routine is available
?S: to get the parent process ID.
?S:.
?C:HAS_GETPPID :
?C: This symbol,
 if defined, indicates that the getppid routine is
?C: available to get the parent process ID.
?C:.
?H:#$d_getppid HAS_GETPPID  /**/
?H:.
?LINT:set d_getppid
: see if getppid exists
set getppid d_getppid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getppid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:use64bitint use64bitall archname64: Myread Oldconfig Setvar test \
 usemorebits longsize ccflags d_quad uquadtype Compile rm_try run
?MAKE: -pick add $@ %<
?Y:TOP
?S:use64bitint:
?S: This variable conditionally defines the USE_64_BIT_INT symbol,
?S: and indicates that 64-bit integer types should be used
?S: when available.  The minimal possible 64-bitness
?S: is employed, just enough to get 64-bit integers into Perl.
?S: This may mean using for example "long longs", while your memory
?S: may still be limited to 2 gigabytes.
?S:.
?S:use64bitall:
?S: This variable conditionally defines the USE_64_BIT_ALL symbol,
?S: and indicates that 64-bit integer types should be used
?S: when available.  The maximal
 possible
?S: 64-bitness is employed: LP64 or ILP64, meaning that you will
?S: be able to use more than 2 gigabytes of memory.  This mode is
```

```
?S: even more binary incompatible than USE_64_BIT_INT. You may not
?S: be able to run the resulting executable in a 32-bit CPU at all or
?S: you may need at least to reboot your OS to 64-bit mode.
?S:.
?S:archname64:
?S: This variable is used for the 64-bitness part of $archname.
?S:.
?C:USE_64_BIT_INT:
?C: This symbol, if defined, indicates that 64-bit integers should
?C: be used when available.  If not defined, the native integers
?C: will be employed (be they 32 or 64 bits).  The minimal possible
?C: 64-bitness is used, just enough to get 64-bit integers into Perl.
?C: This may mean using for example "long longs", while your memory
?C: may still be limited to 2 gigabytes.
?C:.
?C:USE_64_BIT_ALL:
?C: This symbol, if defined, indicates that 64-bit integers should
?C: be used when available.  If not defined, the native integers
?C: will be used (be
 they 32 or 64 bits).  The maximal possible
?C: 64-bitness is employed: LP64 or ILP64, meaning that you will
?C: be able to use more than 2 gigabytes of memory.  This mode is
?C: even more binary incompatible than USE_64_BIT_INT. You may not
?C: be able to run the resulting executable in a 32-bit CPU at all or
?C: you may need at least to reboot your OS to 64-bit mode.
?C:.
?H:?%<:#ifndef USE_64_BIT_INT
?H:?%<:#$use64bitint USE_64_BIT_INT  /**/
?H:?%<:#endif
?H:?%<:#ifndef USE_64_BIT_ALL
?H:?%<:#$use64bitall USE_64_BIT_ALL  /**/
?H:?%<:#endif
?H:.
?INIT:archname64="
?LINT:extern ccflags
?LINT:use usemorebits
?LINT:extern use64bits
?LINT:extern uselonglong
?LINT:extern uselonglongs
?LINT:extern use64bitints
?LINT:extern use64bitsint
?LINT:extern use64bitsall
?T:libcquad
?F:!try
?F:!use64bitint.cbu
?F:!use64bitall.cbu
: Do we want 64bit support
case "$uselonglong" in
```

```
"$define"|true|[yY]*)
 cat <<EOM >&4

*** Configure -Duselonglong is deprecated, using -Duse64bitint instead.
EOM
 use64bitint="$define"
 ;;
esac
case
 "$use64bits" in
"$define"|true|[yY]*)
 cat <<EOM >&4

*** Configure -Duse64bits is deprecated, using -Duse64bitint instead.
EOM
 use64bitint="$define"
 ;;
esac
case "$use64bitints" in
"$define"|true|[yY]*)
 cat <<EOM >&4

*** There is no Configure -Duse64bitints, using -Duse64bitint instead.
EOM
 use64bitint="$define"
 ;;
esac
case "$use64bitsint" in
"$define"|true|[yY]*)
 cat <<EOM >&4

*** There is no Configure -Duse64bitsint, using -Duse64bitint instead.
EOM
 use64bitint="$define"
 ;;
esac
case "$uselonglongs" in
"$define"|true|[yY]*)
 cat <<EOM >&4

*** There is no Configure -Duselonglongs, using -Duse64bitint instead.
EOM
 use64bitint="$define"
 ;;
esac
case "$use64bitsall" in
"$define"|true|[yY]*)
 cat <<EOM >&4
```

```
*** There is no Configure -Duse64bitsall, using -Duse64bitall instead.
EOM
 use64bitall="$define"
 ;;
esac

case "$ccflags" in
*-DUSE_LONG_LONG*|*-DUSE_64_BIT_INT*|*-DUSE_64_BIT_ALL*) use64bitint="$define";;
esac
case "$use64bitall" in
"$define"|true|[yY]*)
 use64bitint="$define" ;;
esac

case "$longsize" in
8) cat <<EOM

You have natively 64-bit long integers.
EOM
  val="$define"
  ;;
*) case "$use64bitint" in
  "$define"|true|[yY]*) dflt='y';;
  *) dflt='n';;
  esac
  case "$d_quad" in
  "$define") ;;
  *) dflt='n' ;;
  esac
  cat <<EOM

Perl can be built to take advantage of 64-bit integer types
on some systems.  To do so, Configure can be run with -Duse64bitint.
Choosing this option will most probably introduce binary incompatibilities.

If this doesn't make any sense to you, just accept the default '$dflt'.
(The default has been chosen based on your configuration.)
EOM
  rp='Try to use 64-bit integers, if available?'
  . ./myread
  case "$ans" in
  [yY]*) val="$define" ;;
  *)     val="$undef"  ;;
  esac
  ;;
esac
set use64bitint
```

```
eval $setvar

case "$use64bitall" in
"$define"|true|[yY]*) dflt='y' ;;
*) case "$longsize" in
  8) dflt='y' ;;
  *) dflt='n' ;;
  esac
  ;;
esac
cat <<EOM

You may also
 choose to try maximal 64-bitness.  It means using as much
64-bitness as possible on the platform.  This in turn means even more
binary incompatibilities.  On the other hand, your platform may not
have any more 64-bitness available than what you already have chosen.

If this doesn't make any sense to you, just accept the default '$dflt'.
(The default has been chosen based on your configuration.)
EOM
rp='Try to use maximal 64-bit support, if available?'
. ./myread
case "$ans" in
[yY]*) val="$define" ;;
*)     val="$undef"  ;;
esac
set use64bitall
eval $setvar
case "$use64bitall" in
"$define")
 case "$use64bitint" in
 "$undef")
  cat <<EOM

Since you have chosen a maximally 64-bit build, I'm also turning on
the use of 64-bit integers.
EOM
  use64bitint="$define" ;;
 esac
 ;;
esac

: Look for a hint-file generated 'call-back-unit'.  If the
: user has specified that a 64-bit perl is to be built,
: we may need to set or change some other defaults.
if $test -f use64bitint.cbu; then
 echo "Your
```

```
 platform has some specific hints regarding 64-bit integers, using them..."
 . ./use64bitint.cbu
fi
case "$use64bitint" in
"$define"|true|[yY]*)
 : This test was common to all the OpenBSD forks, and seems harmless for
 : other platforms:
 echo " "
 echo "Checking if your C library has broken 64-bit functions..." >&4
 cat >try.c <<EOCP
#include <stdio.h>
typedef $uquadtype myULL;
int main (void)
{
   struct {
 double d;
 myULL  u;
   } *p, test[] = {
 {4294967303.15, 4294967303ULL},
 {4294967294.2,  4294967294ULL},
 {4294967295.7,  4294967295ULL},
 {0.0, 0ULL}
   };
   for (p = test; p->u; p++) {
 myULL x = (myULL)p->d;
 if (x != p->u) {
     printf("buggy\n");
     return 0;
 }
   }
   printf("ok\n");
   return 0;
}
EOCP
 set try
 if eval $compile_ok; then
     libcquad=`$run ./try`
     echo "Your C library's 64-bit functions are $libcquad."
 else
     echo "(I can't seem to compile the test program.)"
     echo "Assuming that your C library's 64-bit functions are ok."
     libcquad="ok"
 fi
 $rm_try

 case
 "$libcquad" in
     buggy*)
```

```
  cat >&4 <<EOM

*** You have a C library with broken 64-bit functions.
*** 64-bit support does not work reliably in this configuration.
*** Please rerun Configure without -Duse64bitint and/or -Dusemorebits.
*** Cannot continue, aborting.

EOM
  exit 1
  ;;
 esac
 case "$longsize" in
 4) case "$archname64" in
    ") archname64=64int ;;
    esac
    ;;
 esac
 ;;
esac

: Look for a hint-file generated 'call-back-unit'.  If the
: user has specified that a maximally 64-bit perl is to be built,
: we may need to set or change some other defaults.
if $test -f use64bitall.cbu; then
 echo "Your platform has some specific hints regarding 64-bit builds, using them..."
 . ./use64bitall.cbu
fi
case "$use64bitall" in
"$define"|true|[yY]*)
 case "$longsize" in
 4) case "$archname64" in
    "|64int) archname64=64all ;;
    esac
    ;;
 esac
 ;;
esac

case "$d_quad:$use64bitint" in
$undef:$define)
 cat >&4 <<EOF

*** You have chosen to use 64-bit
 integers,
*** but none can be found.
*** Please rerun Configure without -Duse64bitint and/or -Dusemorebits.
*** Cannot continue, aborting.
```

```
EOF
 exit 1
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/use64bits.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Options.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Options.U,v $
?RCS: Revision 3.0.1.7  1997/02/28  15:08:15  ram
?RCS: patch61: optdef.sh now starts with a "startsh"
?RCS: patch61: moved some code from Head.U
?RCS:
?RCS: Revision 3.0.1.6  1995/09/25  09:14:46  ram
?RCS: patch59: protected option parsing code against 'echo -*' option failure
?RCS:
?RCS: Revision 3.0.1.5  1995/05/12  12:04:52  ram
?RCS: patch54: added -K option for experts
?RCS:
?RCS: Revision 3.0.1.4  1995/01/30  14:27:52  ram
?RCS:
 patch49: this unit now exports file optdef.sh, not a variable
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:19:00  ram
?RCS: patch45: new -O option allowing -D and -U to override config.sh settings
?RCS: patch45: file optdef.sh is no longer removed after sourcing
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  15:58:06  ram
?RCS: patch36: ensure option definition file is removed before appending
?RCS: patch36: protect variable definitions with spaces in them
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:55:44  ram
?RCS: patch30: now uses new me symbol to tag error messages
?RCS: patch30: new -D and -U options to define/undef symbols (JHI)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:14  ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Command line parsing. It is really important that the variables used here
?X: be not listed in the MAKE line, or they will be saved in config.sh and
?X: loading this file to fetch default answers would clobber the values set
?X: herein.
?X:
?MAKE:Options:
 startsh
?MAKE: -pick wipe $@ %<
?V:reuseval alldone error realsilent silent extractsh fastread \
 knowitall: config_sh
?T:arg argn symbol config_arg0 config_args config_argc xxx yyy zzz uuu
?T:args_exp args_sep arg_exp ccflags
?F:!Configure
?F:./optdef.sh ./cmdline.opt ./posthint.sh ./cmdl.opt
: Save command line options in file UU/cmdline.opt for later use in
: generating config.sh.
?X: This temporary file will be read by Oldsym.U.  I used a temporary
?X: file to preserve all sorts of potential command line quotes and
?X: also because we don't know in advance how many variables we'll
?X: need, so I can't actually declare them on the MAKE line.
?X: The config_args variable won't be quite correct if Configure is
?X: fed something like    ./Configure -Dcc="gcc -B/usr/ccs/bin/"
?X: since the quotes are gone by the time we see them.  You'd have to
?X: reconstruct the command line from the config_arg? lines, but since
?X: I don't imagine anyone actually having to do that, I'm not going
?X:
 to worry too much.
cat > cmdline.opt <<EOSH
: Configure command line arguments.
config_arg0='$0'
config_args='$*'
config_argc=$#
EOSH
argn=1
args_exp=''
args_sep=''
for arg in "$@"; do
 cat >>cmdline.opt <<EOSH
config_arg$argn='$arg'
EOSH
?X: Extreme backslashitis: replace each ' by '''''
 cat <<EOC | sed -e "s/'/'''''''''''''''/g" > cmdl.opt
$arg
EOC
 arg_exp=`cat cmdl.opt`
```

```
 args_exp="$args_exp$args_sep'$arg_exp'"
 argn=`expr $argn + 1`
 args_sep=' '
done
?X: args_exp is good for restarting self: eval "set X $args_exp"; shift; $0 "$@"
?X: used by hints/os2.sh in Perl, for instance
rm -f cmdl.opt

: produce awk script to parse command line options
cat >options.awk <<'EOF'
BEGIN {
 optstr = "A:dD:eEf:hKOrsSU:V"; # getopt-style specification

 len = length(optstr);
 for (i = 1; i <= len; i++) {
  c = substr(optstr, i, 1);
?X: some older awk's do not have the C ?: construct
  if (i < len) a = substr(optstr, i + 1, 1); else a = "";
  if (a == ":") {
   arg[c] = 1;
   i++;
  }
  opt[c]
 = 1;
 }
}
{
 expect = 0;
 str = $0;
 if (substr(str, 1, 1) != "-") {
  printf("'%s'\n", str);
  next;
 }
 len = length($0);
 for (i = 2; i <= len; i++) {
  c = substr(str, i, 1);
  if (!opt[c]) {
   printf("-%s\n", substr(str, i));
   next;
  }
  printf("-%s\n", c);
  if (arg[c]) {
   if (i < len)
    printf("'%s'\n", substr(str, i + 1));
   else
    expect = 1;
   next;
  }
```

```
 }
}
END {
 if (expect)
  print "?";
}
EOF

: process the command line options
?X: Use "$@" to keep arguments with spaces in them from being split apart.
?X: For the same reason, awk will output quoted arguments and the final eval
?X: removes them and sets a proper $* array. An 'X' is prepended to each
?X: argument before being fed to echo to guard against 'echo -x', where -x
?X: would be understood as an echo option! It is removed before feeding awk.
set X `for arg in "$@"; do echo "X$arg"; done |
 sed -e s/X// | awk -f options.awk`
eval "set $*"
shift
rm -f options.awk

: set up default values
fastread=''
reuseval=false
config_sh=''
alldone=''
error=''
silent=''
extractsh=''
knowitall=''
rm
 -f optdef.sh posthint.sh
cat >optdef.sh <<EOS
$startsh
EOS

?X:
?X: Given that we now have the possibility to execute Configure remotely
?X: thanks to the new src.U support, we have to face the possibility
?X: of having to ask where the source lie, which means we need the Myread.U
?X: stuff and possibly other things that might echo something on the
?X: screen...
?X:
?X: That's not pretty, and might be confusing in 99% of the time. So...
?X: We introduce a new realsilent variable which is set when -s is given,
?X: and we force silent=true if -S is supplied. The Extractall.U unit
?X: will then undo the >&4 redirection based on the value of the
?X: realsilent variable... -- RAM, 18/93/96
?X:
```

```
: option parsing
while test $# -gt 0; do
 case "$1" in
 -d) shift; fastread=yes;;
 -e) shift; alldone=cont;;
 -f)
  shift
  cd ..
  if test -r "$1"; then
   config_sh="$1"
  else
   echo "$me: cannot read config file $1."
 >&2
   error=true
  fi
  cd UU
  shift;;
 --help|\
 -h) shift; error=true;;
 -r) shift; reuseval=true;;
 -s) shift; silent=true; realsilent=true;;
 -E) shift; alldone=exit;;
 -K) shift; knowitall=true;;
 -O) shift;;
 -S) shift; silent=true; extractsh=true;;
 -D)
  shift
  case "$1" in
  *=)
   echo "$me: use '-U symbol=', not '-D symbol='." >&2
   echo "$me: ignoring -D $1" >&2
   ;;
  *=*) echo "$1" | \
    sed -e "s/'/'\''\''/g" -e "s/=\(.*\)/='\1'/" >> optdef.sh;;
  *) echo "$1='define'" >> optdef.sh;;
  esac
  shift
  ;;
 -U)
  shift
  case "$1" in
  *=) echo "$1" >> optdef.sh;;
  *=*)
   echo "$me: use '-D symbol=val', not '-U symbol=val'." >&2
   echo "$me: ignoring -U $1" >&2
   ;;
  *) echo "$1='undef'" >> optdef.sh;;
```

```
 esac
 shift
 ;;
-A)
   shift
   xxx=''
   yyy="$1"
   zzz=''
   uuu=undef
   case "$yyy" in
        *=*) zzz=`echo "$yyy"|sed 's!=.*!!'`
             case "$zzz" in
             *:*) zzz='' ;;
             *)   xxx=append

             zzz=' '`echo "$yyy"|sed 's!^[^=]*=!!'`
                  yyy=`echo "$yyy"|sed 's!=.*!!'` ;;
             esac
             ;;
        esac
        case "$xxx" in
        '')  case "$yyy" in
             *:*) xxx=`echo "$yyy"|sed 's!:.*!!'`
                  yyy=`echo "$yyy"|sed 's!^[^:]*:!!'`
                  zzz=`echo "$yyy"|sed 's!^[^=]*=!!'`
                  yyy=`echo "$yyy"|sed 's!=.*!!'` ;;
             *)   xxx=`echo "$yyy"|sed 's!:.*!!'`
                  yyy=`echo "$yyy"|sed 's!^[^:]*:!!'` ;;
             esac
             ;;
        esac
   case "$xxx" in
   append)
 echo "$yyy=\"\${$yyy}$zzz\"" >> posthint.sh ;;
   clear)
 echo "$yyy=''"   >> posthint.sh ;;
   define)
       case "$zzz" in
 '') zzz=define ;;
 esac
 echo "$yyy='$zzz'"  >> posthint.sh ;;
   eval)
 echo "eval \"$yyy=$zzz\"" >> posthint.sh ;;
   prepend)
 echo "$yyy=\"$zzz\${$yyy}\"" >> posthint.sh ;;
   undef)
```

```
      case "$zzz" in
  ") zzz="$uuu" ;;
  esac
  echo "$yyy=$zzz"  >> posthint.sh ;;
          *)  echo "$me: unknown -A command '$xxx', ignoring -A $1" >&2 ;;
    esac
    shift
    ;;
 -V) echo "$me generated by metaconfig <VERSION> PL<PATCHLEVEL>." >&2
    exit 0;;
 --) break;;
 -*) echo "$me: unknown option $1" >&2; shift; error=true;;
 *) break;;
 esac
done

case "$error" in
true)
 cat >&2 <<EOM
Usage: $me [-dehrsEKOSV] [-f config.sh] [-D symbol] [-D symbol=value]
               [-U symbol] [-U symbol=] [-A command:symbol...]
 -d : use defaults for all answers.
 -e : go on without questioning past the production of config.sh.
 -f : specify an alternate default configuration file.
 -h : print this help message and exit (with an error status).
 -r : reuse C symbols value if possible (skips costly nm extraction).
 -s : silent mode, only echoes questions and essential information.
 -D : define symbol to have some value:
       -D symbol               symbol gets the
 value 'define'
       -D symbol='some value'   symbol is set to 'some value'
     common used examples (see INSTALL for more info):
       -Duse64bitint           use 64bit integers
       -Duse64bitall           use 64bit integers and pointers
       -Dusethreads            use thread support
       -Dinc_version_list=none  do not include older perl trees in @INC
       -DEBUGGING=none          DEBUGGING options
       -Dcc=gcc                choose your compiler
       -Dprefix=/opt/perl5      choose your destination
 -E : stop at the end of questions, after having produced config.sh.
 -K : do not use unless you know what you are doing.
 -O : ignored for backward compatibility
 -S : perform variable substitutions on all .SH files (can mix with -f)
 -U : undefine symbol:
       -U symbol    symbol gets the value 'undef'
       -U symbol=   symbol gets completely empty
     e.g.:  -Uversiononly
 -A : manipulate symbol after the platform specific hints
```

```
 have been applied:
        -A append:symbol=value   append value to symbol
        -A symbol=value          like append:, but with a separating space
        -A define:symbol=value   define symbol to have value
        -A clear:symbol          define symbol to be ''
        -A define:symbol         define symbol to be 'define'
        -A eval:symbol=value     define symbol to be eval of value
        -A prepend:symbol=value  prepend value to symbol
        -A undef:symbol          define symbol to be 'undef'
        -A undef:symbol=         define symbol to be ''
      e.g.:  -A prepend:libswanted='cl pthread '
             -A ccflags=-DSOME_MACRO
 -V : print version number and exit (with a zero status).
EOM
 exit 1
 ;;
esac

?X:
?X: Unless they specified either -S or both -d and -e/E, make sure we're
?X: running interactively, i.e. attached to a terminal. Moved from Head.U to
?X: be able to handle batch configurations...
?X:
?X: We have to hardwire the Configure name and
 cannot use $me, since if they
?X: said 'sh <Configure', then $me is 'sh'...
?X:
: Sanity checks
case "$fastread$alldone" in
yescont|yesexit) ;;
*)
 case "$extractsh" in
 true) ;;
 *)
  if test ! -t 0; then
   echo "Say 'sh Configure', not 'sh <Configure'"
   exit 1
  fi
  ;;
 esac
 ;;
esac

?X: In silent mode, the standard output is closed. Questions are asked by
?X: outputing on file descriptor #4, which is the original stdout descriptor.
?X: This filters out all the "junk", since all the needed information is written
?X: on #4. Note that ksh will not let us redirect output if the file descriptor
?X: has not be defined yet, unlike sh, hence the following line...--RAM.
```

```
exec 4>&1
case "$silent" in
true) exec 1>/dev/null;;
esac

: run the defines and the undefines, if any, but leave the file out there...
touch optdef.sh
?X: -q is POSIX
?X: It does not work in SysV (solaris) or old BSD greps.
grep '\\' optdef.sh >/dev/null 2>&1
if test $? = 0; then
   echo "Configure does not support \\
 in -D arguments"
   exit 1
fi
. ./optdef.sh
: create the posthint manipulation script and leave the file out there...
?X: this file will be perused by Oldconfig.U
touch posthint.sh
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Options.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: basicshell.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: basicshell.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:25  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:basicshell: Getfile Oldconfig bash csh ksh sh
?MAKE: -pick add $@ %<
?S:basicshell:
?S: This variable contains the eventual value of the BASICSHELL symbol,
?S: which contains the full name of the basic script shell on this
?S: system.  Usual values are /bin/sh, /bin/ksh, /bin/csh.
?S:.
?C:BASICSHELL:
?C: This symbol contains the
```

```
 full name of the basic script shell on this
?C: system.  Usual values are /bin/sh, /bin/ksh, /bin/csh.
?C:.
?H:#define BASICSHELL "$basicshell"  /**/
?H:.
: find the most basic shell for scripts
echo " "
case "$basicshell" in
")
 case "$sh $bash $csh $ksh" in
 */sh*) dflt="$sh" ;;
 */ksh*) dflt="$ksh" ;;
 */csh*) dflt="$csh" ;;
 */bash*) dflt="$bash" ;;
 *) dflt='/bin/sh' ;;
 esac
 ;;
*)
 dflt="$basicshell";;
esac
fn=f
rp="Give the full path name of the most basic shell used on your system"
. ./getfile
basicshell=$ans
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/basicshell.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Warn.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extract.U,v $
?X:
?X: This unit produces a shell script which can be run in order to emit
?X: an important warning to the user, which will be remembered and shown
?X: at the end of the Configure run as well.
?X:
?X: A typical use would be:
?X:
```

```
?X:  ./warn <<EOM
?X:  Problem with your C compiler: can't turn debugging on.
?X:  EOM
?X:
?X: or:
?X:
?X:  ./warn "Problem with your C compiler: can't turn debugging on."
?X:
?X: Which will both display to the user:
?X:
?X:  ***
 WARNING:
?X:  *** Problem with your C compiler: can't turn debugging on.
?X:  ***
?X:
?MAKE:Warn: startsh eunicefix
?MAKE: -pick add $@ %<
?F:./warn
: script used to emit important warnings
cat >warn <<EOS
$startsh
?X: Read the whole warning message from stdin into a temporary file
?X: when no argument was supplied.
if test \$# -gt 0; then
 echo "\$@" >msg
else
 cat >msg
fi
?X: Emit the warning, prefixing all lines with '*** '
echo "*** WARNING:" >&4
sed -e 's/^/*** /' <msg >&4
echo "*** " >&4
?X: Save the warning in the logs, which will be shown again at the end
cat msg >>config.msg
echo " " >>config.msg
rm -f msg
EOS
chmod +x warn
$eunicefix warn
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Warn.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_malloc.U,v 3.1 2003/01/21 18:51:51 merijn Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
```

```
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: i_malloc.U,v $
?RCS: Revision 3.1  2003/01/21  18:51:51  merijn
?RCS: Moved to modified: Ihdr replaced with Compile
?RCS:
?RCS: $Log: i_malloc.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:21  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_malloc: cat rm_try Compile Setvar i_mallocmalloc
?MAKE: -pick add $@ %<
?S:i_malloc:
?S: This variable conditionally defines the I_MALLOC symbol, and indicates
?S: whether a C program should include <malloc.h>.
?S:.
?C:I_MALLOC:
?C: This
 symbol, if defined, indicates to the C program that it should
?C: include <malloc.h>.
?C:.
?H:#$i_malloc I_MALLOC  /**/
?H:.
?LINT:set i_malloc
: see if this is a malloc.h system
: we want a real compile instead of Inhdr because some systems have a
: malloc.h that just gives a compile error saying to use stdlib.h instead
echo " "
$cat >try.c <<EOCP
#include <stdlib.h>
#include <malloc.h>
#$i_mallocmalloc I_MALLOCMALLOC
#ifdef I_MALLOCMALLOC
# include <malloc/malloc.h>
#endif

int main () { return 0; }
EOCP
set try
if eval $compile; then
   echo "<malloc.h> found." >&4
   val="$define"
else
```

```
  echo "<malloc.h> NOT found." >&4
  val="$undef"
fi
$rm_try
set i_malloc
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_malloc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sanemcmp.U,v 3.0.1.1 1997/02/28 15:41:19 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_sanemcmp.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:41:19  ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_sanemcmp: Compile cat d_memcmp rm_try run \
 i_memory i_stdlib i_string i_unistd Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_sanemcmp:
?S: This variable conditionally defines the HAS_SANE_MEMCMP symbol if
?S: the memcpy() routine is available and can be used to compare relative
?S: magnitudes of chars with their high bits set.
?S:.
?C:HAS_SANE_MEMCMP:
?C: This
 symbol, if defined, indicates that the memcmp routine is available
?C: and can be used to compare relative magnitudes of chars with their high
?C: bits set.  If it is not defined, roll your own version.
?C:.
?H:#$d_sanemcmp HAS_SANE_MEMCMP /**/
?H:.
?F:!try
?LINT: set d_sanemcmp
: can memcmp be trusted to compare relative magnitude?
?X: assume the worst
val="$undef"
```

```
case "$d_memcmp" in
"$define")
 echo " "
 echo "Checking if your memcmp() can compare relative magnitude..." >&4
 $cat >try.c <<EOCP
#$i_memory I_MEMORY
#$i_stdlib I_STDLIB
#$i_string I_STRING
#$i_unistd I_UNISTD
EOCP
 $cat >>try.c <<'EOCP'
#include <stdio.h>
#ifdef I_MEMORY
#  include <memory.h>
#endif
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#ifdef I_STRING
#  include <string.h>
#else
#  include <strings.h>
#endif
#ifdef I_UNISTD
#  include <unistd.h>  /* Needed for NetBSD */
#endif
int main()
{
char a = -1;
char b = 0;
if ((a < b) && memcmp(&a, &b, 1) < 0)
 exit(1);
exit(0);
}
EOCP
 set try
 if eval
 $compile_ok; then
  if $run ./try 2>/dev/null; then
   echo "Yes, it can."
   val="$define"
  else
   echo "No, it can't (it uses signed chars)."
  fi
 else
  echo "(I can't compile the test program, so we'll assume not...)"
 fi
 ;;
```

```
esac
$rm_try
set d_sanemcmp
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_sanemcmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fd_set.U,v 3.0.1.3 1997/02/28 15:33:16 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_fd_set.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:33:16  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20  06:57:23  ram
?RCS: patch30: extended scope for fd_set checks (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:06:27  ram
?RCS: patch16: comments for HAS_FD_* symbols were not consistent
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_fd_set d_fd_macros
 d_fds_bits: Compile cat rm_try Oldconfig \
 d_socket i_systime i_sysselct i_stdlib run
?MAKE: -pick add $@ %<
?S:d_fd_set:
?S: This variable contains the eventual value of the HAS_FD_SET symbol,
?S: which indicates if your C compiler knows about the fd_set typedef.
?S:.
?S:d_fd_macros:
?S: This variable contains the eventual value of the HAS_FD_MACROS symbol,
?S: which indicates if your C compiler knows about the macros which
?S: manipulate an fd_set.
?S:.
?S:d_fds_bits:
?S: This variable contains the eventual value of the HAS_FDS_BITS symbol,
```

```
?S: which indicates if your fd_set typedef contains the fds_bits member.
?S: If you have an fd_set typedef, but the dweebs who installed it did
?S: a half-fast job and neglected to provide the macros to manipulate
?S: an fd_set, HAS_FDS_BITS will let us know how to fix the gaffe.
?S:.
?C:HAS_FD_SET:
?C: This symbol, when defined, indicates presence of the fd_set typedef
?C: in <sys/types.h>
?C:.
?C:HAS_FD_MACROS:
?C: This symbol, when defined,
  indicates presence of the macros used to
?C: manipulate an fd_set.
?C:.
?C:HAS_FDS_BITS:
?C: This symbol, when defined, indicates presence of the fds_bits member in
?C: fd_set.  This knowledge is useful if fd_set is available but the macros
?C: aren't.
?C:.
?H:#$d_fd_set HAS_FD_SET /**/
?H:#$d_fd_macros HAS_FD_MACROS /**/
?H:#$d_fds_bits HAS_FDS_BITS /**/
?H:.
?F:!try
: check for fd_set items
$cat <<EOM

Checking to see how well your C compiler handles fd_set and friends ...
EOM
?X: The FD_SET macros can be in strange places.  On some SysV-based
?X: systems, they are in <sys/bsdtypes.h>, which is included (perhaps)
?X: by <sys/socket.h>.  We won't force people to include
?X: <sys/bsdtypes.h> because it might introduce other
?X: incompatibilities.
$cat >try.c <<EOCP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_systime I_SYS_TIME
#$i_sysselct I_SYS_SELECT
#$d_socket HAS_SOCKET
#include <sys/types.h>
#ifdef HAS_SOCKET
#include <sys/socket.h> /* Might include <sys/bsdtypes.h>
 */
#endif
#ifdef I_SYS_TIME
```

```
#include <sys/time.h>
#endif
#ifdef I_SYS_SELECT
#include <sys/select.h>
#endif
int main() {
 fd_set fds;

#ifdef TRYBITS
 if(fds.fds_bits);
#endif

#if defined(FD_SET) && defined(FD_CLR) && defined(FD_ISSET) && defined(FD_ZERO)
 exit(0);
#else
 exit(1);
#endif
}
EOCP
set try -DTRYBITS
if eval $compile; then
 d_fds_bits="$define"
 d_fd_set="$define"
 echo "Well, your system knows about the normal fd_set typedef..." >&4
 if $run ./try; then
  echo "and you have the normal fd_set macros (just as I'd expect)." >&4
  d_fd_macros="$define"
 else
  $cat >&4 <<'EOM'
but not the normal fd_set macros!  Gaaack!  I'll have to cover for you.
EOM
  d_fd_macros="$undef"
 fi
else
 $cat <<'EOM'
Hmm, your compiler has some difficulty with fd_set.  Checking further...
EOM
 set try
 if eval $compile; then
  d_fds_bits="$undef"
  d_fd_set="$define"
  echo "Well, your system has some sort of fd_set available..." >&4
  if $run ./try; then
   echo "and you have the normal
 fd_set macros." >&4
   d_fd_macros="$define"
  else
   $cat <<'EOM'
```

```
but not the normal fd_set macros!  Gross!  More work for me...
EOM
   d_fd_macros="$undef"
  fi
 else
 echo "Well, you got zip.  That's OK, I can roll my own fd_set stuff." >&4
  d_fd_set="$undef"
  d_fds_bits="$undef"
  d_fd_macros="$undef"
 fi
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_fd_set.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libpth.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  16:08:49  ram
?RCS: patch61: new loclibpth variable
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:31:30  ram
?RCS: patch45: call ./mips instead of just mips (WED)
?RCS:
?RCS: Revision 3.0.1.4  1994/08/29  16:29:15  ram
?RCS: patch32: added /lib/pa1.1 for HP-UX specially tuned PA-RISC libs (ADO)
?RCS: patch32: fixed information message, making it clearer (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:03:54  ram
?RCS: patch30: added /usr/shlib to
 glibpth for shared-only libraries
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:26:57  ram
?RCS: patch27: fixed a typo (libpth -> glibpth)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:07:53  ram
?RCS: patch23: now asks for library directories to be searched (ADO)
```

```
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit initializes the path for C library lookup.
?X:
?MAKE:libpth glibpth xlibpth plibpth loclibpth: \
 usrinc incpath test cat Myread Oldconfig
?MAKE: -pick add $@ %<
?S:libpth:
?S: This variable holds the general path (space-separated) used to find
?S: libraries. It is intended to be used by other units.
?S:.
?S:glibpth:
?S: This variable holds the general path (space-separated) used to
?S: find libraries.  It may contain directories that do not exist on
?S: this platform, libpth is the cleaned-up version.
?S:.
?S:xlibpth:
?S: This variable holds extra path (space-separated) used to find
?S: libraries on this platform,
 for example CPU-specific libraries
?S: (on multi-CPU platforms) may be listed here.
?S:.
?S:loclibpth:
?S: This variable holds the paths (space-separated) used to find local
?S: libraries.  It is prepended to libpth, and is intended to be easily
?S: set from the command line.
?S:.
?S:plibpth:
?S: Holds the private path used by Configure to find out the libraries.
?S: Its value is prepend to libpth. This variable takes care of special
?S: machines, like the mips.  Usually, it should be empty.
?S:.
?T: xxx dlist
?LINT:use usrinc
?INIT:: change the next line if compiling for Xenix/286 on Xenix/386
?INIT:xlibpth='/usr/lib/386 /lib/386'
?INIT:: Possible local library directories to search.
?INIT:loclibpth="/usr/local/lib /opt/local/lib /usr/gnu/lib"
?INIT:loclibpth="$loclibpth /opt/gnu/lib /usr/GNU/lib /opt/GNU/lib"
?INIT:
?INIT:: general looking path for locating libraries
?INIT:glibpth="/lib /usr/lib $xlibpth"
?INIT:glibpth="$glibpth /usr/ccs/lib /usr/ucblib /usr/local/lib"
?X: /shlib
```

```
 is for Digital Unix 4.0
?X: /usr/shlib is for OSF/1 systems.
?INIT:test -f /usr/shlib/libc.so && glibpth="/usr/shlib $glibpth"
?INIT:test -f /shlib/libc.so     && glibpth="/shlib $glibpth"
?INIT:
?INIT:: Private path used by Configure to find libraries.  Its value
?INIT:: is prepended to libpth. This variable takes care of special
?INIT:: machines, like the mips.  Usually, it should be empty.
?INIT:plibpth=''
?INIT:
: Set private lib path
case "$plibpth" in
'') if ./mips; then
?X: on mips, we DO NOT want /lib, and we want $incpath/usr/lib
  plibpth="$incpath/usr/lib /usr/local/lib /usr/ccs/lib"
 fi;;
esac
case "$libpth" in
' ') dlist='';;
'') dlist="$loclibpth $plibpth $glibpth";;
*) dlist="$libpth";;
esac

: Now check and see which directories actually exist, avoiding duplicates
libpth=''
for xxx in $dlist
do
   if $test -d $xxx; then
  case " $libpth " in
  *" $xxx "*) ;;
  *) libpth="$libpth $xxx";;
  esac
   fi
done
$cat <<'EOM'

Some systems have incompatible or broken versions
 of libraries.  Among
the directories listed in the question below, please remove any you
know not to be holding relevant libraries, and add any that are needed.
Say "none" for none.

EOM
case "$libpth" in
'') dflt='none';;
*)
?X: strip leading space
 set X $libpth
```

```
 shift
 dflt=${1+"$@"}
 ;;
esac
rp="Directories to use for library searches?"
. ./myread
case "$ans" in
none) libpth=' ';;
*) libpth="$ans";;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/libpth.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Loc_sed.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?X: This is used in perl.c.
?MAKE:full_sed: sed
?MAKE: -pick add $@ %<
?S:full_sed:
?S: This variable contains the full pathname to 'sed', whether or
?S: not the user has specified 'portability'.  This is only used
?S: in the compiled C program, and we assume that all systems which
?S: can share this executable will have the same full pathname to
?S: 'sed.'
?S:.
?X: Yes, I know about the C symbol PORTABLE, but I think sed
?X: is
 unlikely to move, and I'm too lazy to add all the
?X: #ifdef PORTABLE sections to the perl source.
?X:
?C:LOC_SED:
?C: This symbol holds the complete pathname to the sed program.
?C:.
?H:#define LOC_SED  "$full_sed" /**/
?H:.
: Store the full pathname to the sed program for use in the C program
```

```
full_sed=$sed
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Loc_sed.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strtod.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strtod.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:46:36  ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_strtod: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtod:
?S: This variable conditionally defines the HAS_STRTOD symbol, which
?S: indicates to the C program that the strtod() routine is available
?S: to provide better numeric string conversion than atof().
?S:.
?C:HAS_STRTOD (STRTOD):
?C: This symbol, if defined,
 indicates that the strtod routine is
?C: available to provide better numeric string conversion than atof().
?C:.
?H:#$d_strtod HAS_STRTOD /**/
?H:.
?LINT:set d_strtod
: see if strtod exists
set strtod d_strtod
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strtod.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Protochk.U,v $
```

```
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X: This unit generates a ./protochk script that is used internally
?X: by Configure to check if this system will accept a particular
?X: prototype.
?X:
?X: To use it, say something like:
?X: hdrs="$define sys/types.h
?X:  $i_systime sys/time.h
?X:  $i_sysselct sys/select.h
?X:  $d_socket sys/socket.h"
?X: $xxx='fd_set *'
?X: try='extern int select _((int, $xxx, $xxx, $xxx, struct timeval *'));'
?X: if ./protochk "$try" $hdrs; then
?X:  echo "Your system accepts $xxx for the arguments to select."
?X: fi
?X:  (Of course select is harder, since the first arg can be int,
?X: size_t, or unsigned long, and the last arg may or may not have a
?X: 'const' before the 'struct timeval' :-(.  Also SunOS
 4.1.3 doesn't
?X: provide a select prototype so the compiler accepts anything :-).
?X:
?X: The C compiler on QNX warns about invalid pointer types, but
?X: still exits with a 0 exit status, so it's not much help here.
?X: (It does correctly detect incorrect non-pointer arguments).
?X: Still, since QNX is a POSIX-ish system, just make your first
?X: a POSIX-ish one, and QNX will probably accept it.
?X:
?X: For determining argument types, your compiler must support
?X: prototypes, and the header files must use them.  Determining
?X: return types, however, is easier.  Just give an ridiculous
?X: return type, something like
?X: ./protochk 'extern int atof _((void));' $i_stdlib stdlib.h
?X: that should surely fail if atof() is defined in <stdlib.h>
?X:
?X: There is also an 'escape' hatch built in.  If you have a pair
?X: of args   'literal 'stuff' then 'stuff' gets included literally
?X: into the test program.  This could be useful for doing something
?X: like
?X: hdrs="$define stdio.h
?X:  $define
 sys/types.h"
?X: ./protochk 'extern int fsetpos(FILE *, Fpos_t);' $args \
?X:   'literal' '#define Fpos_t long long'
```

```
?X: but you have to be really careful about the spaces in "literal".
?X:
?X:  Andy Dougherty   Feb. 1998
?MAKE:Protochk: cat rm_try startsh eunicefix +cc +optimize +ccflags \
 i_pthread usethreads
?MAKE: -pick add $@ %<
?F:./protochk
?X: Comfort metalint.  All these are actually used in the protochk script.
?T:foo status pthread_h_done
?LINT: change cc optimize ccflags define rm_try
?LINT: extern pthread_h_first
?LINT: change pthread_h_first
?LINT: change usethreads
?LINT: change i_pthread
: define a function to check prototypes
$cat > protochk <<EOSH
$startsh
cc="$cc"
optimize="$optimize"
ccflags="$ccflags"
define="$define"
rm_try="$rm_try"
usethreads=$usethreads
i_pthread=$i_pthread
pthread_h_first=$pthread_h_first
EOSH

$cat >> protochk <<'EOSH'

$rm_try
foo="$1"
shift
while test $# -ge 2; do
 case "$1" in
  $define) echo "#include <$2>" >> try.c ;;
  literal)
 echo "$2" >> try.c ;;
 esac
   # Extra magic for the benefit of systems that need pthread.h
   # to be included early to correctly detect threadsafe functions.
   # Such functions must guarantee themselves, though, that the usethreads
   # and i_pthread have been defined, before calling protochk.
   if test "$usethreads" = "$define" -a "$i_pthread" = "$define" -a "$pthread_h_first" = "$define" -a
"$pthread_h_done" = ""; then
 echo "#include <pthread.h>" >> try.c
 pthread_h_done=yes
   fi
   shift 2
```

```
done
cat >> try.c <<'EOCP'
#define _(args) args
EOCP
echo "$foo" >> try.c
?X: Just so we have something to compile.
echo 'int no_real_function_has_this_name _((void)) { return 0; }' >> try.c
$cc $optimize $ccflags -c try.c > /dev/null 2>&1
status=$?
$rm_try
exit $status
EOSH
chmod +x protochk
$eunicefix protochk
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/Protochk.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: pidtype.U,v 3.0.1.1 1994/08/29 16:31:27 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: pidtype.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:31:27  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:33  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:pidtype: Myread Typedef
?MAKE: -pick add $@ %<
?S:pidtype:
?S: This variable defines PIDTYPE to be something like pid_t, int,
?S: ushort, or whatever type is used to declare process ids in the kernel.
?S:.
?C:Pid_t (PIDTYPE):
?C: This
 symbol holds the type used to declare process ids in the kernel.
?C: It can be int, uint, pid_t, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
```

```
?C:.
?H:#define Pid_t $pidtype  /* PID type */
?H:.
?LINT: set pidtype
: see what type pids are declared as in the kernel
rp="What is the type of process ids on this system?"
set pid_t pidtype int stdio.h sys/types.h
eval $typedef_ask
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/pidtype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fchdir: Inlibc
?MAKE: -pick add $@ %<
?S:d_fchdir:
?S: This variable conditionally defines the HAS_FCHDIR symbol, which
?S: indicates to the C program that the fchdir() routine is available.
?S:.
?C:HAS_FCHDIR:
?C: This symbol, if defined, indicates that the fchdir routine is
?C: available to change directory using a file descriptor.
?C:.
?H:#$d_fchdir HAS_FCHDIR  /**/
?H:.
?LINT:set d_fchdir
: see if fchdir exists
set fchdir d_fchdir
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fchdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: ccflags.U,v $
?RCS: Revision 3.0.1.9  1997/02/28  15:27:07  ram
?RCS: patch61: removed support for NO_PROTOTYPE detection on SCO
?RCS: patch61: new locincpth variable
?RCS: patch61: added info on the "additional ld flags" question
?RCS:
?RCS: Revision 3.0.1.8  1995/07/25  13:48:54  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.7  1995/05/12  12:08:33  ram
?RCS: patch54: now checks for cc/ccflags/ldflags coherency
?RCS:
?RCS: Revision 3.0.1.6
  1994/10/29  16:07:02  ram
?RCS: patch36: gcc versioning no longer relies on the C compiler's name
?RCS: patch36: simplified check for gcc version checking (ADO)
?RCS:
?RCS: Revision 3.0.1.5  1994/08/29  16:06:35  ram
?RCS: patch32: propagate -posix flag from ccflags to ldflags
?RCS:
?RCS: Revision 3.0.1.4  1994/05/06  14:28:45  ram
?RCS: patch23: -fpcc-struct-return only needed in gcc 1.x (ADO)
?RCS: patch23: cppflags now computed on an option-by-option basis
?RCS: patch23: magically added cc flags now only done the first time
?RCS:
?RCS: Revision 3.0.1.3  1993/09/13  15:58:29  ram
?RCS: patch10: explicitly mention -DDEBUG just in case they need it (WAD)
?RCS: patch10: removed all the "tans" variable usage (WAD)
?RCS:
?RCS: Revision 3.0.1.2  1993/08/27  14:39:38  ram
?RCS: patch7: added support for OSF/1 machines
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:00:24  ram
?RCS: patch6: added defaults for cppflags, ccflags and ldflags
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:31  ram
?RCS:
 Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:ccflags ldflags lkflags cppflags optimize locincpth: test cat \
 Myread Guess Options Oldconfig gccversion mips_type +usrinc \
 package contains rm rm_try +cc cppstdin cppminus cpprun cpplast libpth \
 loclibpth hint
```

```
?MAKE: -pick add $@ %<
?S:ccflags:
?S: This variable contains any additional C compiler flags desired by
?S: the user.  It is up to the Makefile to use this.
?S:.
?S:cppflags:
?S: This variable holds the flags that will be passed to the C pre-
?S: processor. It is up to the Makefile to use it.
?S:.
?S:optimize:
?S: This variable contains any optimizer/debugger flag that should be used.
?S: It is up to the Makefile to use it.
?S:.
?S:ldflags:
?S: This variable contains any additional C loader flags desired by
?S: the user.  It is up to the Makefile to use this.
?S:.
?S:lkflags:
?S: This variable contains any additional C partial linker flags desired by
?S: the user.  It is up to the Makefile to use this.
?S:.
?S:locincpth:
?S: This
 variable contains a list of additional directories to be
?S: searched by the compiler.  The appropriate -I directives will
?S: be added to ccflags.  This is intended to simplify setting
?S: local directories from the Configure command line.
?S: It's not much, but it parallels the loclibpth stuff in libpth.U.
?S:.
?T:inctest thisincl xxx flag inclwanted ftry previous thislibdir
?F:!cpp.c
?D:cppflags=''
?D:ccflags=''
?D:ldflags=''
?D:optimize=''
?INIT:: Possible local include directories to search.
?INIT:: Set locincpth to "" in a hint file to defeat local include searches.
?INIT:locincpth="/usr/local/include /opt/local/include /usr/gnu/include"
?INIT:locincpth="$locincpth /opt/gnu/include /usr/GNU/include /opt/GNU/include"
?INIT::
?INIT:: no include file wanted by default
?INIT:inclwanted=''
?INIT:
: determine optimize, if desired, or use for debug flag also
case "$optimize" in
' '|$undef) dflt='none';;
')
 case "$gccversion" in
```

```
 ") dflt='-O';;
 *) dflt='-O2 -g';;
 esac
 ;;
*)
 dflt="$optimize";;
esac
case "$gccversion" in
") $cat <<EOH

Some C compilers have problems with their optimizers.  By default, $package
compiles with the -O flag to use the optimizer.  Alternately, you might want
to use the symbolic debugger, which uses the -g flag (on traditional Unix
systems).  Either flag can be specified here.  To use neither flag, specify
the word "none".

EOH
 ;;
*) $cat <<EOH

With the GNU C compiler, it is possible to supply both -O2 and -g flags, to
be able to reasonably optimize, whilst retaining the ability to use a
symbolic debugger.  Either flag can be specified here.  To use neither flag,
specify the word "none".

EOH
 ;;
esac
rp="What optimizer/debugger flag should be used?"
. ./myread
optimize="$ans"
case "$optimize" in
'none') optimize=" ";;
esac

dflt="
: We will not override a previous value, but we might want to
: augment a hint file
case "$hint" in
default|recommended)
 case "$gccversion" in
 1*) dflt='-fpcc-struct-return' ;;
 esac
?X:
 check for POSIXized ISC
 case "$gccversion" in
 2*) if test -d /etc/conf/kconfig.d &&
   $contains _POSIX_VERSION $usrinc/sys/unistd.h >/dev/null 2>&1
```

```
  then
   dflt="$dflt -posix"
  fi
  ;;
 esac
?X: turn warnings on if they're using gcc
 case "$gccversion" in
 1*|2*) dflt="$dflt -Wall";;
?X: starting with version 3, add "-W -Wall -Wformat=2 -Wshadow" by default
 *) dflt="$dflt -W -Wall -Wformat=2 -Wshadow";;
 esac
 ;;
esac

?X: In USG mode, a MIPS system may need some BSD includes
case "$mips_type" in
*BSD*|") inclwanted="$locincpth $usrinc";;
*) inclwanted="$locincpth $inclwanted $usrinc/bsd";;
esac
for thisincl in $inclwanted; do
 if $test -d $thisincl; then
  if $test x$thisincl != x$usrinc; then
   case "$dflt" in
   *$thisincl*);;
   *) dflt="$dflt -I$thisincl";;
   esac
  fi
 fi
done

?X: Include test function (header, symbol)
inctest='if $contains $2 $usrinc/$1 >/dev/null 2>&1; then
 xxx=true;
elif $contains $2 $usrinc/sys/$1 >/dev/null 2>&1; then
 xxx=true;
else
 xxx=false;
fi;
if
 $xxx; then
 case "$dflt" in
 *$2*);;
 *) dflt="$dflt -D$2";;
 esac;
fi'

?X:
?X: OSF/1 uses __LANGUAGE_C__ instead of LANGUAGE_C
```

```
?X:
if ./osf1; then
 set signal.h __LANGUAGE_C__; eval $inctest
else
 set signal.h LANGUAGE_C; eval $inctest
fi

case "$hint" in
default|recommended) dflt="$ccflags $dflt" ;;
*) dflt="$ccflags";;
esac

case "$dflt" in
"|' ') dflt=none;;
esac
$cat <<EOH

Your C compiler may want other flags.  For this question you should include
-I/whatever and -DWHATEVER flags and any other flags used by the C compiler,
but you should NOT include libraries or ld flags like -lwhatever.

To use no flags, specify the word "none".

EOH
?X: strip leading space
set X $dflt
shift
dflt=${1+"$@"}
rp="Any additional cc flags?"
. ./myread
case "$ans" in
none) ccflags="";;
*) ccflags="$ans";;
esac

: the following weeds options from ccflags that are of no interest to cpp
cppflags="$ccflags"
case "$gccversion" in
1*) cppflags="$cppflags -D__GNUC__"
esac
case "$mips_type" in
");;
*BSD*)
 cppflags="$cppflags -DSYSTYPE_BSD43";;
esac
case "$cppflags" in
");;
*)
```

```
 echo " "
 echo "Let me guess what the preprocessor flags are..." >&4
 set X $cppflags
 shift
 cppflags="
 $cat >cpp.c <<'EOM'
#define BLURFL foo

BLURFL xx LFRULB
EOM
?X:
?X: For each cc flag, try it out with both cppstdin and cpprun, since the
?X: first is almost surely a cc wrapper. We have to try both in case
?X: of cc flags like '-Olimit 2900' that are actually two words...
?X:
 previous="
 for flag in $*
 do
  case "$flag" in
  -*) ftry="$flag";;
  *) ftry="$previous $flag";;
  esac
  if $cppstdin -DLFRULB=bar $ftry $cppminus <cpp.c \
   >cpp1.out 2>/dev/null && \
   $cpprun -DLFRULB=bar $ftry $cpplast <cpp.c \
   >cpp2.out 2>/dev/null && \
   $contains 'foo.*xx.*bar' cpp1.out >/dev/null 2>&1 && \
   $contains 'foo.*xx.*bar' cpp2.out >/dev/null 2>&1
  then
   cppflags="$cppflags $ftry"
   previous="
  else
   previous="$flag"
  fi
 done
 set X $cppflags
 shift
 cppflags=${1+"$@"}
 case "$cppflags"
 in
 *-*)  echo "They appear to be: $cppflags";;
 esac
 $rm -f cpp.c cpp?.out
 ;;
esac

: flags used in final linking phase
case "$ldflags" in
```

```
") if ./venix; then
  dflt='-i -z'
 else
  dflt=''
 fi
 case "$ccflags" in
 *-posix*) dflt="$dflt -posix" ;;
 esac
 ;;
*) dflt="$ldflags";;
esac

: Try to guess additional flags to pick up local libraries.
for thislibdir in $libpth; do
 case " $loclibpth " in
 *" $thislibdir "*)
  case "$dflt " in
  *"-L$thislibdir "*) ;;
  *)  dflt="$dflt -L$thislibdir" ;;
  esac
  ;;
 esac
done

case "$dflt" in
") dflt='none' ;;
*) set X $dflt; shift; dflt="$@";;
esac

$cat <<EOH

Your C linker may need flags.  For this question you should
include -L/whatever and any other flags used by the C linker, but you
should NOT include libraries like -lwhatever.

Make sure you include the appropriate -L/path flags if your C linker
does not normally search all of the directories you specified above,
namely
 $libpth
To use no flags, specify the word "none".

EOH

rp="Any
 additional ld flags (NOT including libraries)?"
. ./myread
case "$ans" in
none) ldflags="";;
```

```
*) ldflags="$ans";;
esac
rmlist="$rmlist pdp11"

@if lkflags
: partial linking may need other flags
case "$lkflags" in
") case "$ldflags" in
 ") dflt='none';;
 *) dflt="$ldflags";;
 esac;;
*) dflt="$lkflags";;
esac
echo " "
rp="Partial linking flags to be used (NOT including -r)?"
. ./myread
case "$ans" in
none) lkflags=";;
*) lkflags="$ans";;
esac

@end
?X:
?X: If the user changes compilers after selecting a hint file, it's
?X: possible that the suggested ccflags/ldflags will be wrong.  Try to
?X: compile and run a simple test program.  Let the user see all the
?X: error messages. -- ADO and RAM
?X:
: coherency check
echo " "
echo "Checking your choice of C compiler and flags for coherency..." >&4
?X: Strip extra blanks in case some of the following variables are empty
set X $cc $optimize $ccflags $ldflags -o try try.c
shift
$cat >try.msg <<EOM
I've tried to compile and run a simple program
 with:

 $*
 ./try

and I got the following output:

EOM
$cat > try.c <<'EOF'
#include <stdio.h>
int main() { exit(0); }
EOF
```

```
dflt=y
?X: Use "sh -c" to avoid error messages tagged with leading "Configure:".
?X: We need to try the resulting executable, because cc might yield a 0 status
?X: even when ld failed, in which case the executable will not run properly,
?X: if its x bit is set at all...
if sh -c "$cc $optimize $ccflags $ldflags -o try try.c" >>try.msg 2>&1; then
 if sh -c './try' >>try.msg 2>&1; then
  dflt=n
 else
  echo "The program compiled OK, but exited with status $?." >>try.msg
  rp="You have a problem.  Shall I abort Configure"
  dflt=y
 fi
else
 echo "I can't compile the test program." >>try.msg
 rp="You have a BIG problem.  Shall I abort Configure"
 dflt=y
fi
case "$dflt" in
y)
 $cat try.msg >&4
?X: using -K will prevent default aborting--maybe they're cross compiling?
 case "$knowitall" in
 ")
  echo "(The supplied flags might be incorrect with this C compiler.)"
  ;;
 *)
 dflt=n;;
 esac
 echo " "
 . ./myread
 case "$ans" in
 n*|N*) ;;
 *) echo "Ok.  Stopping Configure." >&4
  exit 1
  ;;
 esac
 ;;
n) echo "OK, that should do.";;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/ccflags.U
No license file was found, but licenses were detected in source scan.

?RCS: Id

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:i_poll: Inhdr
?MAKE: -pick add $@ %<
?S:i_poll:
?S: This variable conditionally defines the I_POLL symbol, which
?S: indicates to the C program that it should include <poll.h>.
?S:.
?C:I_POLL:
?C: This symbol, if defined, indicates that the program may include
?C: <poll.h>.  If there is no <poll.h>, then you may check I_SYS_POLL
?C: instead to see whether there is a <sys/poll.h> to include.
?C:.
?H:#$i_poll I_POLL /**/
?H:.
?LINT:set i_poll
: see if there is a poll.h file
set poll.h i_poll
eval $inhdr
```

Found
 in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_poll.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2017, Karl Williamson
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_wchar: Inhdr
?MAKE: -pick add $@ %<
?S:i_wchar:
?S: This variable conditionally defines the I_WCHAR symbol,
?S: that indicates whether a C program may include <wchar.h>.
```

```
?S:.
?C:I_WCHAR:
?C: This symbol, if defined, indicates to the C program that <wchar.h>
?C: is available for inclusion
?C:.
?H:#$i_wchar   I_WCHAR /**/
?H:.
?LINT:set i_wchar
: see if wchar.h is present
set wchar.h i_wchar
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_wchar.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setlnbuf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_setlnbuf.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:11:57  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_setlinebuf: Inlibc
?MAKE: -pick add $@ %<
?S:d_setlinebuf:
?S: This variable conditionally defines the HAS_SETLINEBUF symbol, which
?S: indicates to the C program that the setlinebuf() routine is available
?S: to change stderr or stdout from block-buffered or unbuffered
 to a
?S: line-buffered mode.
?S:.
?C:HAS_SETLINEBUF :
?C: This symbol, if defined, indicates that the setlinebuf routine is
?C: available to change stderr or stdout from block-buffered or unbuffered
?C: to a line-buffered mode.
?C:.
?H:#$d_setlinebuf HAS_SETLINEBUF  /**/
```

```
?H:.
?LINT:set d_setlinebuf
: see if setlinebuf exists
set setlinebuf d_setlinebuf
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setlnbuf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpwent.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_getpwent.U,v $
?RCS:
?MAKE:d_getpwent: Inlibc
?MAKE: -pick add $@ %<
?S:d_getpwent:
?S: This variable conditionally defines the HAS_GETPWENT symbol, which
?S: indicates to the C program that the getpwent() routine is available
?S: for sequential access of the passwd database.
?S:.
?C:HAS_GETPWENT:
?C: This symbol, if defined, indicates that the getpwent routine is
?C: available for sequential access of the passwd database.
?C: If this is not available, the older getpw() function may be available.
?C:.
?H:#$d_getpwent HAS_GETPWENT  /**/
?H:.
?LINT:set d_getpwent
: see if getpwent exists
set getpwent d_getpwent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_getpwent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_eofpipe.U,v 3.0.1.1 1994/10/29 16:12:40 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_eofpipe.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:12:40  ram
?RCS: patch36: call ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_eofpipe: Compile cat rm Oldconfig Guess echo n c
?MAKE: -pick add $@ %<
?S:d_eofpipe:
?S: This variable conditionally defines the EOFPIPE symbol, which
?S: indicates to the C program that select will correctly detect
 the EOF
?S: condition when pipe is closed from the other end.
?S:.
?C:EOFPIPE:
?C: This symbol, if defined, indicates that EOF condition will be detected
?C: by the reader of the pipe when it is closed by the writing process.
?C: That is, a select() call on that file descriptor will not block when
?C: only an EOF remains (typical behavior for BSD systems).
?C:.
?H:#$d_eofpipe EOFPIPE  /**/
?H:.
?F:!mpipe
: see if pipe correctly gives the EOF condition
echo " "
case "$d_eofpipe" in
")
 echo "Let's see if your pipes return EOF to select() upon closing..." >&4
 $cat >pipe.c <<'EOP'
int main()
{
 int pd[2];
 int mask;

 pipe(pd);
 if (0 == fork()) {
  close(pd[0]);
  close(pd[1]);
  exit(0);
 }
```

```
 close(pd[1]);
 mask = 1 << pd[0];
 alarm(2);
 select(32, &mask, (int *) 0, (int *) 0, (char *) 0);
 if (0 == read(pd[0], &mask, 1))
  exit(0);

 exit(1);
}
EOP
 set pipe
 if eval $compile_ok; then
?X: Use a script to avoid the possible 'alarm call' message
  echo "./pipe || exit 1" > mpipe
  chmod
 +x mpipe
  ./mpipe >/dev/null 2>&1
  case $? in
  0) d_eofpipe="$define";;
  *) d_eofpipe="$undef";;
  esac
 else
  echo "(The test program did not compile correctly -- Guessing.)"
  if ./bsd; then
   d_eofpipe="$define"
  else
   d_eofpipe="$undef"
  fi
 fi
 case "$d_eofpipe" in
 "$define") echo "Yes, they do.";;
 *) echo "No, they don't! (sigh)";;
 esac
 ;;
*)
 $echo $n "Your pipes $c"
 case "$d_eofpipe" in
 "$define") echo "allow select() to see EOF upon closing.";;
 *) echo "won't let select() see EOF on closing.";;
 esac
 ;;
esac
$rm -f *pipe* core
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_eofpipe.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_truncate.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_truncate.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_truncate: Inlibc
?MAKE: -pick add $@ %<
?S:d_truncate:
?S: This variable conditionally defines HAS_TRUNCATE if truncate() is
?S: available to truncate files.
?S:.
?C:HAS_TRUNCATE (TRUNCATE):
?C: This symbol, if defined, indicates that the truncate routine is
?C: available to truncate files.
?C:.
?H:#$d_truncate HAS_TRUNCATE /**/
?H:.
?LINT:set
 d_truncate
: see if truncate exists
set truncate d_truncate
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_truncate.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: MailList.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: MailList.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:01:49  ram
?RCS: patch16: created
?RCS:
?RCS:
?X:
?X: This unit offers the user the option of subscribing to the mailing
?X: list. To force inclusion of this unit, you must add it's name to the
?X: dependancies on the MAKE line in your private copy of End.U.
?X: The address of the mailing list server must be set via a "list_request=..."
?X:
 entry in the .package file. This is usually done by running packinit and
?X: answering the proper questions.
?X:
?MAKE:MailList: cat mailer package Myread cf_name cf_email
?MAKE: -pick wipe $@ %<
?T:list_request list_sub list_unsub list_name
?X:
?X: The cf_name dependency is used through list_sub when the mailing list
?X: manager happens to be listserv, whereas cf_email is used whith majordomo
?X: or when the mailing list request address is scanned by a human. Since
?X: they do not appear within the unit itself, we need a lint hint.
?X:
?LINT:use cf_name cf_email
: offer to join the mailing list
list_request='<$list_request>'
list_sub="<$list_sub>"
list_unsub="<$list_unsub>"
list_name="<$list_name>"
$cat <<EOM

There is a mailing list for discussion about $package and related issues.
This is the preferred place to ask questions about the program and discuss
modifications and additions with the author and other users.  If you are able
to send mail to the Internet, you
 are encouraged to subscribe.  You need only
ever subscribe once, and you can unsubscribe automatically at any time in the
future.  If you have already subscribed and you wish to unsubscribe now, you
may do so by answering "unsubscribe".  Answer "subscribe" to subscribe to the
list.

EOM
rp="Subscribe to or unsubscribe from the $list_name mailing list?"
dflt=neither
. ./myread
```

```
case "$ans" in
[sS]*) $cat <<EOM

You will be sent a message from the list server to let you know when your
subscription has been successful and telling you how to submit articles and
how to unsubscribe again when necessary. You may also unsubscribe by running
this script again and asking it to do so for you.

EOM
 echo "Sending mail to subscribe you to the $list_name list..." >&4
 $mailer $list_request <<EOM >/dev/null 2>&1
Precedence: junk
To: $list_request

$list_sub
EOM
 ;;
[uU]*) echo "Sending mail to unsubscribe you from the $list_name list..." >&4
 $mailer $list_request <<EOM >/dev/null 2>&1
Precedence: junk
To:
 $list_request

$list_unsub
EOM
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/MailList.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethostprotos.U,v $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_gethostprotos : Hasproto i_netdb
?MAKE: -pick add $@ %<
?S:d_gethostprotos:
?S: This variable conditionally defines the HAS_GETHOST_PROTOS symbol,
?S: which indicates to the C program that <netdb.h> supplies
```

```
?S: prototypes for the various gethost*() functions.
?S: See also netdbtype.U for probing for various netdb types.
?S:.
?C:HAS_GETHOST_PROTOS:
?C: This symbol, if defined, indicates that <netdb.h> includes
?C: prototypes for gethostent(), gethostbyname(), and
?C: gethostbyaddr().  Otherwise,
 it is up to the program to guess
?C: them.  See netdbtype.U for probing for various Netdb_xxx_t types.
?C:.
?H:#$d_gethostprotos HAS_GETHOST_PROTOS /**/
?H:.
?LINT:set d_gethostprotos
?X: This test actually only checks for gethostent() and assumes the
?X: others follow suit.  This test fails for ChorusOS, which has
?X: gethostbyname and gethostbyaddr, but not gethostent.
: see if prototypes for various gethostxxx netdb.h functions are available
echo " "
set d_gethostprotos gethostent $i_netdb netdb.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/d_gethostprotos.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_recvmsg: Inlibc
?MAKE: -pick add $@ %<
?S:d_recvmsg:
?S: This variable conditionally defines the HAS_RECVMSG symbol, which
?S: indicates to the C program that the recvmsg() routine is available.
?S:.
?C:HAS_RECVMSG:
?C: This symbol, if defined, indicates that the recvmsg routine is
?C: available to send structured socket messages.
?C:.
?H:#$d_recvmsg HAS_RECVMSG  /**/
?H:.
?LINT:set d_recvmsg
: see if recvmsg exists
set recvmsg d_recvmsg
```

```
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_recvmsg.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Instruct.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:02:55  ram
?RCS: patch61: logname / whoami sequence rewritten to use case
?RCS:
?RCS: Revision 3.0.1.2  1995/02/15  14:11:34  ram
?RCS: patch51: author name now appears at the end of the paragraph (WED)
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:12:05  ram
?RCS: patch45: now documents the & escape to turn -d on at the read prompt
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X:
 This unit spew out the directions that we want everyone to read.  I try to
?X: keep the first "pagefull" much less than a page since they don't know it
?X: isn't going to go shooting off the top of the screen, and we don't want
?X: to panic them yet.
?X:
?MAKE:Instruct: Begin Myread Configdir contains
?MAKE: -pick wipe $@ %<
?T:user needman firsttime
: general instructions
needman=true
firsttime=true
user=`(logname) 2>/dev/null`
case "$user" in
") user=`whoami 2>&1`;;
esac
if $contains "^$user\$" ../.config/instruct >/dev/null 2>&1; then
```

```
 firsttime=false
 echo " "
 rp='Would you like to see the instructions?'
 dflt=n
 . ./myread
 case "$ans" in
 [yY]*) ;;
 *) needman=false;;
 esac
fi
if $needman; then
 cat <<EOH

This installation shell script will examine your system and ask you questions
to determine how the <PACKAGENAME> package should be installed. If you get
stuck on a question, you may use a ! shell escape to start a subshell or
execute a command.  Many of the questions will have
 default answers in square
brackets; typing carriage return will give you the default.

On some of the questions which ask for file or directory names you are allowed
to use the ~name construct to specify the login directory belonging to "name",
even if you don't have a shell which knows about that.  Questions where this is
allowed will be marked "(~name ok)".

EOH
 rp="
 dflt='Type carriage return to continue'
 . ./myread
 cat <<'EOH'

The prompter used in this script allows you to use shell variables and
backticks in your answers.  You may use $1, $2, etc...  to refer to the words
in the default answer, as if the default line was a set of arguments given to a
script shell.  This means you may also use $* to repeat the whole default line,
so you do not have to re-type everything to add something to the default.

Everytime there is a substitution, you will have to confirm.  If there is an
error (e.g. an unmatched backtick), the default answer will remain unchanged
and you will be prompted
 again.

If you are in a hurry, you may run 'Configure -d'.  This will bypass nearly all
the questions and use the computed defaults (or the previous answers if there
was already a config.sh file). Type 'Configure -h' for a list of options.
You may also start interactively and then answer '& -d' at any prompt to turn
on the non-interactive behaviour for the remainder of the execution.
```

```
EOH
 . ./myread
 cat <<EOH

Much effort has been expended to ensure that this shell script will run on any
Unix system.  If despite that it blows up on yours, your best bet is to edit
Configure and run it again.  If you can't run Configure for some reason,
you'll have to generate a config.sh file by hand.  Whatever problems you
have, let me (<MAINTLOC>) know how I blew it.

This installation script affects things in two ways:

1) it may do direct variable substitutions on some of the files included
  in this kit.
2) it builds a config.h file for inclusion in C programs.  You may edit
  any of these
 files as the need arises after running this script.

If you make a mistake on a question, there is no easy way to back up to it
currently.  The easiest thing to do is to edit config.sh and rerun all the SH
files.  Configure will offer to let you do this before it runs the SH files.

EOH
?X: In case they played with the prompter...
 dflt='Type carriage return to continue'
 . ./myread
 case "$firsttime" in
 true) echo $user >>../.config/instruct;;
 esac
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Instruct.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_SHM_MAC.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_SHM_MAC.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:41  ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_SHM_MAC d_SHM_PRM d_SHM_SEG d_SHM_IMMU: cat d_shm test rm +cc +ccflags
?MAKE: -pick add $@ %<
?S:d_SHM_MAC:
?S: Sometimes, the SHMLBA manifest needs sys/sysmacros.h, usually for
?S: the ctob() macro.
?S:.
?S:d_SHM_PRM:
?S: Sometimes, the SHMLBA manifest needs sys/param.h, usually for the
?S: NBPC constant.
?S:.
?S:d_SHM_SEG:
?S: Sometimes,
 the SHMLBA manifest needs sys/seg.h, usually for the
?S: SNUMSHFT constant.
?S:.
?S:d_SHM_IMMU:
?S: Sometimes, the SHMLBA manifest needs sys/immu.h, usually for the
?S: stob() macro.
?S:.
?C:SHMLBA_WANTS_SYSMACROS:
?C: This value tells us to include <sys/sysmacros.h> because SHMLBA
?C: needs something from there, probably the ctob() macro.
?C:.
?C:SHMLBA_WANTS_PARAM:
?C: This value tells us to include <sys/param.h> because SHMLBA needs
?C: something from there, probably the NBPC constant.
?C:.
?C:SHMLBA_WANTS_SEG:
?C: This value tells us to include <sys/seg.h> because SHMLBA needs
?C: something from there, probably the SNUMSHFT constant.
?C:.
?C:SHMLBA_WANTS_IMMU:
?C: This value tells us to include <sys/immu.h> because SHMLBA needs
?C: something from there, probably the stob() macro.  (tower_600 only?)
?C:.
?H:#$d_SHM_MAC SHMLBA_WANTS_SYSMACROS /* SHMLBA wants ctob()? */
?H:#$d_SHM_PRM SHMLBA_WANTS_PARAM /* SHMLBA wants NBPC? */
?H:#$d_SHM_SEG SHMLBA_WANTS_SEG /* SHMLBA wants
 SNUMSHFT? */
?H:#$d_SHM_IMMU SHMLBA_WANTS_IMMU /* SHMLBA wants stob()? */
?H:.
?T:flags D_sys_immu D_sys_seg D_sys_sysmacros D_sys_param
: check for SHMLBA braindamage
d_SHM_MAC="$undef"
d_SHM_PRM="$undef"
d_SHM_SEG="$undef"
```

```
d_SHM_IMMU="$undef"
if $test "$d_shm" = "$define" ; then
 echo " "
 $cat >&4 <<EOM
Checking to see if SHMLBA needs additional headers.
The headers I'll be checking are:

   sys/macros.h (for the ctob() macro)
   sys/param.h  (for NBPC)
   sys/seg.h    (for SNUMSHFT)
   sys/immu.h  (for the stob() macro)

EOM
 $cat >shm_mac.c <<'EOCP'
#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/shm.h>
#ifdef I_SYS_IMMU
#include <sys/immu.h>
#endif
#ifdef I_SYS_SYSMACROS
#include <sys/sysmacros.h>
#endif
#ifdef I_SYS_PARAM
#include <sys/param.h>
#endif
#ifdef I_SYS_SEG
#include <sys/seg.h>
#endif

int main() {
 int foo = SHMLBA ;
 }
EOCP
 flags='xxx'
 for D_sys_immu in " '-DI_SYS_IMMU'; do
 for D_sys_seg in " '-DI_SYS_SEG'; do
 for D_sys_sysmacros in " '-DI_SYS_SYSMACROS';
 do
 for D_sys_param in " '-DI_SYS_PARAM'; do
  case "$flags" in
  'xxx')
   case "$D_sys_immu$D_sys_param$D_sys_sysmacros$D_sys_seg" in
   ")
    echo "Trying it normally..."
    ;;
   *)
   echo "Trying $D_sys_immu $D_sys_param $D_sys_sysmacros $D_sys_seg"
```

```
  ;;
  esac
  if $cc $ccflags \
  $D_sys_immu $D_sys_param $D_sys_sysmacros $D_sys_seg \
  -o shm_mac shm_mac.c >/dev/null 2>&1 ; then
   set X $D_sys_immu $D_sys_param $D_sys_sysmacros $D_sys_seg
   shift
   flags="$*"
   echo "Succeeded with $flags"
  fi
  ;;
 esac
done
done
done
done
case "$flags" in
xxx)
 echo "I don't know how to keep SHMLBA happy.  Good luck!"
 ;;
esac
case "$flags" in
*I_SYS_PARAM*) d_SHM_PRM="$define";;
esac
case "$flags" in
*I_SYS_SYSMACROS*) d_SHM_MAC="$define";;
esac
case "$flags" in
*I_SYS_SEG*) d_SHM_SEG="$define";;
esac
case "$flags" in
*I_SYS_IMMU*) d_SHM_IMMU="$define";;
esac
fi
$rm -f shm_mac*
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_SHM_MAC.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getservbyname_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
```

```
?RCS:
?MAKE:d_getservbyname_r getservbyname_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getservbyname_r:
?S: This variable conditionally defines the HAS_GETSERVBYNAME_R symbol,
?S: which indicates to the C program that the getservbyname_r()
?S: routine is available.
?S:.
?S:getservbyname_r_proto:
?S: This variable encodes the prototype of getservbyname_r.
?S: It is zero if d_getservbyname_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getservbyname_r
?S: is defined.
?S:.
?C:HAS_GETSERVBYNAME_R:
?C: This symbol, if defined, indicates
 that the getservbyname_r routine
?C: is available to getservbyname re-entrantly.
?C:.
?C:GETSERVBYNAME_R_PROTO:
?C: This symbol encodes the prototype of getservbyname_r.
?C: It is zero if d_getservbyname_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getservbyname_r
?C: is defined.
?C:.
?H:#$d_getservbyname_r HAS_GETSERVBYNAME_R /**/
?H:#define GETSERVBYNAME_R_PROTO $getservbyname_r_proto /**/
?H:.
?T:try hdrs d_getservbyname_r_proto
: see if getservbyname_r exists
set getservbyname_r d_getservbyname_r
eval $inlibc
case "$d_getservbyname_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getservbyname_r_proto:$usethreads" in
 ":define") d_getservbyname_r_proto=define
  set d_getservbyname_r_proto getservbyname_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getservbyname_r_proto" in
 define)
 case "$getservbyname_r_proto" in
 "|0) try='int getservbyname_r(const char*, const char*, struct servent*, char*,
 size_t, struct servent**);'
 ./protochk "$extern_C $try" $hdrs && getservbyname_r_proto=I_CCSBWR ;;
```

```
 esac
 case "$getservbyname_r_proto" in
 "|0) try='struct servent* getservbyname_r(const char*, const char*, struct servent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getservbyname_r_proto=S_CCSBI ;;
 esac
 case "$getservbyname_r_proto" in
 "|0) try='int getservbyname_r(const char*, const char*, struct servent*, struct servent_data*);'
 ./protochk "$extern_C $try" $hdrs && getservbyname_r_proto=I_CCSD ;;
 esac
 case "$getservbyname_r_proto" in
 "|0) d_getservbyname_r=undef
  getservbyname_r_proto=0
  echo "Disabling getservbyname_r, cannot determine prototype." >&4 ;;
 * ) case "$getservbyname_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getservbyname_r_proto="REENTRANT_PROTO_$getservbyname_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getservbyname_r has no prototype, not using it." >&4 ;;
  esac
  d_getservbyname_r=undef
  getservbyname_r_proto=0
  ;;
 esac
 ;;
*) getservbyname_r_proto=0
 ;;
esac
```

Found
 in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getservbyname_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2005-2007 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_cplusplus: Compile Setvar run cat rm_try
?MAKE: -pick add $@ %<
?S:d_cplusplus (d_cplusplus.U):
?S: This variable conditionally defines the USE_CPLUSPLUS symbol, which
?S: indicates that a C++ compiler was used to compiled Perl and will be
```

```
?S: used to compile extensions.
?S:.
?C:USE_CPLUSPLUS:
?C: This symbol, if defined, indicates that a C++ compiler was
?C: used to compiled Perl and will be used to compile extensions.
?C:.
?H:#$d_cplusplus USE_CPLUSPLUS  /**/
?H:.
?F:!try
?LINT:set d_cplusplus
: Check if we are using C++
echo " "
echo "Checking for C++..." >&4
$cat >try.c <<'EOCP'
#include <stdio.h>
int main(void)
{
#ifdef __cplusplus
   return 0;
#else
   return 1;
#endif
}
EOCP
set try
if eval $compile_ok
 && $run ./try; then
 val="$define"
 echo "You are using a C++ compiler."
else
 val="$undef"
 echo "You are not using a C++ compiler."
fi
$rm_try cplusplus$$
set d_cplusplus
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_cplusplus.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_gethid.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:10  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_gethid: Inlibc
?MAKE: -pick add $@ %<
?S:d_gethid:
?S: This variable conditionally defines HAS_GETHOSTID if gethostid() is
?S: available to get the host id.
?S:.
?C:HAS_GETHOSTID (GETHOSTID):
?C: This symbol, if defined, indicates that the gethostid system call is
?C: available to get the host id.
?C:.
?H:#$d_gethid HAS_GETHOSTID  /**/
?H:.
?LINT:set
 d_gethid
: see if gethid exists
set gethostid d_gethid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_gethid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:usemultiplicity: useithreads Myread Oldconfig Setvar
?MAKE: -pick add $@ %<
?Y:TOP
?S:usemultiplicity:
?S: This variable conditionally defines the MULTIPLICITY symbol,
?S: and indicates that Perl should be built to use multiplicity.
?S:.
?C:MULTIPLICITY:
?C: This symbol, if defined, indicates that Perl should
?C: be built to use multiplicity.
```

```
?C:.
?H:?%<:#ifndef MULTIPLICITY
?H:?%<:#$usemultiplicity MULTIPLICITY  /**/
?H:?%<:#endif
?H:.
?LINT:set usemultiplicity
?INIT:: set usemultiplicity on the Configure command line to enable multiplicity.
: Check if multiplicity is required
?X: We should really have some explanatory text here, and some
?X: automatic setting of sensible defaults.
cat <<EOM

Perl
 can be built so that multiple Perl interpreters can coexist
within the same Perl executable.
EOM

case "$useithreads" in
$define)
 cat <<EOM
This multiple interpreter support is required for interpreter-based threads.
EOM
 val="$define"
 ;;
*) case "$usemultiplicity" in
 $define|true|[yY]*) dflt='y';;
 *) dflt='n';;
 esac
 echo " "
 echo "If this doesn't make any sense to you, just accept the default '$dflt'."
 rp='Build Perl for multiplicity?'
 . ./myread
 case "$ans" in
 y|Y) val="$define" ;;
 *)      val="$undef" ;;
 esac
 ;;
esac
set usemultiplicity
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/usemultiplicity.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_readdir64_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
```

```
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_readdir64_r readdir64_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_dirent extern_C
?MAKE: -pick add $@ %<
?S:d_readdir64_r:
?S: This variable conditionally defines the HAS_READDIR64_R symbol,
?S: which indicates to the C program that the readdir64_r()
?S: routine is available.
?S:.
?S:readdir64_r_proto:
?S: This variable encodes the prototype of readdir64_r.
?S: It is zero if d_readdir64_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_readdir64_r
?S: is defined.
?S:.
?C:HAS_READDIR64_R:
?C: This symbol, if defined, indicates that the readdir64_r routine
?C: is
 available to readdir64 re-entrantly.
?C:.
?C:READDIR64_R_PROTO:
?C: This symbol encodes the prototype of readdir64_r.
?C: It is zero if d_readdir64_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_readdir64_r
?C: is defined.
?C:.
?H:#$d_readdir64_r HAS_READDIR64_R /**/
?H:#define READDIR64_R_PROTO $readdir64_r_proto /**/
?H:.
?T:try hdrs d_readdir64_r_proto
: see if readdir64_r exists
set readdir64_r d_readdir64_r
eval $inlibc
case "$d_readdir64_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_dirent dirent.h"
 case "$d_readdir64_r_proto:$usethreads" in
 ":define") d_readdir64_r_proto=define
  set d_readdir64_r_proto readdir64_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_readdir64_r_proto" in
```

```
 define)
 case "$readdir64_r_proto" in
 "|0) try='int readdir64_r(DIR*, struct dirent64*, struct dirent64**);'
 ./protochk "$extern_C $try" $hdrs && readdir64_r_proto=I_TSR ;;
 esac
 case "$readdir64_r_proto" in
 "|0) try='int readdir64_r(DIR*,
 struct dirent64*);'
 ./protochk "$extern_C $try" $hdrs && readdir64_r_proto=I_TS ;;
 esac
 case "$readdir64_r_proto" in
 "|0) d_readdir64_r=undef
  readdir64_r_proto=0
  echo "Disabling readdir64_r, cannot determine prototype." >&4 ;;
 * ) case "$readdir64_r_proto" in
  REENTRANT_PROTO*) ;;
  *) readdir64_r_proto="REENTRANT_PROTO_$readdir64_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "readdir64_r has no prototype, not using it." >&4 ;;
  esac
  d_readdir64_r=undef
  readdir64_r_proto=0
  ;;
 esac
 ;;
*) readdir64_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_readdir64_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: d_strctcpy.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:34  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strctcpy: cat rm_try cc Setvar
?MAKE: -pick add $@ %<
?S:d_strctcpy:
?S: This variable conditionally defines the USE_STRUCT_COPY symbol, which
?S: indicates to the C program that this C compiler knows how to copy
?S: structures.
?S:.
?C:USE_STRUCT_COPY (STRUCTCOPY):
?C: This symbol, if defined, indicates that this C compiler knows how
?C: to copy structures.  If undefined, you'll
 need to use a block copy
?C: routine of some sort instead.
?C:.
?H:#$d_strctcpy USE_STRUCT_COPY /**/
?H:.
?LINT:set d_strctcpy
: check for structure copying
echo " "
echo "Checking to see if your C compiler can copy structs..." >&4
$cat >try.c <<'EOCP'
int main()
{
 struct blurfl {
  int dyick;
 } foo, bar;

 foo = bar;
}
EOCP
if $cc -c try.c >/dev/null 2>&1 ; then
 val="$define"
 echo "Yup, it can."
else
 val="$undef"
 echo "Nope, it can't."
fi
set d_strctcpy
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strctcpy.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_bzero.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_bzero.U,v $
?RCS: Revision 3.0.1.2  1993/10/16  13:48:15  ram
?RCS: patch12: added magic support for bzero()
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:01:33  ram
?RCS: patch10: now only defines HAS_BZERO, no macro remap on memset (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_bzero: Inlibc
?MAKE: -pick add $@ %<
?S:d_bzero:
?S: This variable conditionally defines the HAS_BZERO
 symbol if
?S: the bzero() routine is available to set memory to 0.
?S:.
?C:HAS_BZERO:
?C: This symbol is defined if the bzero() routine is available to
?C: set a memory block to 0.
?C:.
?H:#$d_bzero HAS_BZERO /**/
?H:.
?M:bzero: HAS_BZERO
?M:#ifndef HAS_BZERO
?M:#ifndef bzero
?M:#define bzero(s,l) memset((s),0,(l))
?M:#endif
?M:#endif
?M:.
?LINT:set d_bzero
: see if bzero exists
set bzero d_bzero
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_bzero.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_newsadm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_newsadm.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:36:53  ram
?RCS: patch61: added Guess dependency
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:14:33  ram
?RCS: patch36: call ./eunice explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_newsadm newsadmin: cat contains Guess Setvar Myread Oldconfig
?MAKE: -pick add $@ %<
?S:d_newsadm:
?S: This variable
 conditionally defines the NEWS_ADMIN symbol, which
?S: indicates to the C program that there is a user who is in charge
?S: of news administration.
?S:.
?S:newsadmin:
?S: This variable holds the login name of the news administrator, if any.
?S:.
?C:NEWS_ADMIN (NEWSADMIN):
?C: This symbol, if defined, contains the login name of the news
?C: administrator.
?C:.
?H:#$d_newsadm NEWS_ADMIN "$newsadmin"  /**/
?H:.
?LINT:set d_newsadm
: get news administrator name
case "$newsadmin" in
")
 if $contains "^news:" /etc/passwd >/dev/null 2>&1 ; then
  dflt=news
 elif $contains "^usenet:" /etc/passwd >/dev/null 2>&1 ; then
```

```
  dflt=usenet
 elif ./eunice; then
  dflt=system
 else
  dflt=root
 fi
 ;;
*)
 dflt="$newsadmin"
 ;;
esac
$cat <<'EOM'

Many systems keep their news in a private directory, or have a non-superuser
in charge of administering news.  (If you don't have such a user, take the
default answer.)  I need the login name (not directory) which is used for
news administration.

EOM
rp="News
 admin login?"
. ./myread
newsadmin="$ans"
case "$newsadmin" in
root) val="$undef" ;;
*) val="$define" ;;
esac
set d_newsadm
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_newsadm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getpwent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:17  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?MAKE:d_getpwent: Csym Setvar
?MAKE: -pick add $@ %<
?S:d_getpwent:
?S: This variable conditionally defines the HAS_GETPWENT symbol, which
?S: indicates to the C program that it should use the getpwent()
?S: routine instead of the getpw() routine.
?S:.
?C:HAS_GETPWENT (GETPWENT):
?C: This symbol, if defined, indicates that the getpwent() routine
?C: should be used instead of the getpw()
 routine.
?C:.
?H:#$d_getpwent HAS_GETPWENT /**/
?H:.
?LINT:set d_getpwent
: see if there is a getpwent
echo " "
if set getpwent val -f d_getpwent; eval $csym; $val; then
 echo "getpwent() found." >&4
 val="$define"
else
 echo "No getpwent() found -- will use getpw() instead." >&4
 val="$undef"
fi
set d_getpwent
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getpwent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: charorder.U,v 3.0.1.1 1994/10/29 16:07:08 ram Exp $
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: charorder.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:07:08  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:33  ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:chorder_int chorder_short chorder_long: Myread cat Compile rm
?MAKE: -pick add $@ %<
?S:chorder_short (d_cos d_bos):
?S: Holds the value describing the byte ordering of characters in a short.
?S: On a Big-Endian machine, that
 would be "c0c1".
?S:.
?S:chorder_int (charoder):
?S: Holds the value describing the byte ordering of characters in an int.
?S: For instance, on a Big-Endian machine, this would be: "c0c1c2c3".
?S:.
?S:chorder_long (d_col d_bol):
?S: Holds the value describing the byte ordering of characters in a long.
?S: On a 64 bits Big-Endian machine, that would yield: "c0c1c2c3c4c5c6c7".
?S:.
?C:CHAR_ORDER_SHORT:
?C: Holds the byte ordering of characters in a short. It's a string
?C: value like "c0c1" on a Big-Endian machine.
?C:.
?C:CHAR_ORDER_INT:
?C: Holds the byte ordering of characters in an int. It's a string
?C: value like "c0c1c2c3" on a Big-Endian machine.
?C:.
?C:CHAR_ORDER_LONG:
?C: Holds the byte ordering of characters in a long. It's a string
?C: value like "c0c1c2c3c4c5c6c7" on a 64 bits Big-Endian machine.
?C:.
?H:#define CHAR_ORDER_SHORT "$chorder_short" /* byte order in a short */
?H:#define CHAR_ORDER_INT "$chorder_int" /* byte order in an int */
?H:#define CHAR_ORDER_LONG "$chorder_long"
 /* byte order in a long */
?H:.
?F:!byteorder
: check for character ordering
echo " "
echo "Checking out byte order..." >&4
$cat >byteorder.c <<'EOCP'
#include <stdio.h>

int main(argc, argv)
 int argc;
 char *argv[]; {
 int i;
 int max;
 union {
  short u_s;
```

```
 int u_i;
 long u_l;
 char u_c[sizeof(long)];
} u;
switch (argv[1][0]) {
case 'l':
 u.u_l = 0L;
 /* HMS: ASSERT: sizeof(long) < 10. */
 for(i = 0; i < sizeof(long); ++i) {
  u.u_l *= 0x100L;
  u.u_l += (0xc0 + i);
 }
 max = sizeof(long);
 break;
case 's':
 u.u_s = 0;
 /* HMS: ASSERT: sizeof(short) < 10. */
 for(i = 0; i < sizeof(short); ++i) {
  u.u_s *= 0x100L;
  u.u_s += (0xc0 + i);
 }
 max = sizeof(short);
 break;
case 'i':
 u.u_i = 0;
 /* RAM: ASSERT: sizeof(int) < 10. */
 for(i = 0; i < sizeof(int); ++i) {
  u.u_l *= 0x100L;
  u.u_l += (0xc0 + i);
 }
 max = sizeof(int);
 break;
default:
 max = 0;
 break;
}
for(i = 0; i < max; i++) {
 printf("%x", u.u_c[i] & 0x00FF);
}
printf("\n");
exit(0);
}
EOCP
set
 byteorder
if eval $compile_ok ; then
 : null statement
@if chorder_short
```

```
   chorder_short=`./byteorder s`
@end
@if chorder_int
   chorder_int=`./byteorder i`
@end
@if chorder_long
   chorder_long=`./byteorder l`
@end
else
 $cat <<EOM
(I can't seem to get my test program to work.  Guessing 32 bits big-endian.)
EOM
   chorder_short="c0c1"
   chorder_int="c0c1c2c3"
   chorder_long="c0c1c2c3"
fi
@if chorder_short
dflt=$chorder_short
rp='What is the order of characters in a short?'
. ./myread
chorder_short="$ans"
@end
@if chorder_int
dflt=$chorder_int
rp='What is the order of characters in an int?'
. ./myread
chorder_int="$ans"
@end
@if chorder_long
dflt=$chorder_long
rp='What is the order of characters in a long?'
. ./myread
chorder_long="$ans"
@end
$rm -f byteorder* core
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/charorder.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_shadow.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
```

```
?MAKE:i_prot: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_prot:
?S: This variable conditionally defines the I_PROT symbol, and indicates
?S: whether a C program should include <prot.h>.
?S:.
?C:I_PROT:
?C: This symbol, if defined, indicates that <prot.h> exists and
?C: should be included.
?C:.
?H:#$i_prot I_PROT  /**/
?H:.
?LINT:set i_prot
: see if this is a prot.h system
set prot.h i_prot
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_prot.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_eaccess: Inlibc
?MAKE: -pick add $@ %<
?S:d_eaccess:
?S: This variable conditionally defines the HAS_EACCESS symbol, which
?S: indicates to the C program that the eaccess() routine is available.
?S:.
?C:HAS_EACCESS :
?C: This symbol, if defined, indicates that the eaccess routine is
?C: available to do extended access checks.
?C:.
?H:#$d_eaccess HAS_EACCESS  /**/
?H:.
?LINT:set d_eaccess
: see if eaccess exists
set eaccess d_eaccess
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/acl/d_eaccess.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_inetpton: Inlibc
?MAKE: -pick add $@ %<
?S:d_inetpton:
?S: This variable conditionally defines the HAS_INETPTON symbol,
?S: which indicates to the C program that the inet_pton() function
?S: is available.
?S:.
?C:HAS_INETPTON:
?C: This symbol, if defined, indicates that the inet_pton() function
?C: is available to parse IPv4 and IPv6 strings.
?C:.
?H:#$d_inetpton HAS_INETPTON  /**/
?H:.
?LINT:set d_inetpton
: see if inet_pton exists
set inet_pton d_inetpton
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_inetpton.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:gidsign: Myread Typedef gidtype Compile run
?MAKE: -pick add $@ %<
?S:gidsign:
?S: This variable contains the signedness of a gidtype.
?S: 1 for unsigned, -1 for signed.
?S:.
```

```
?C:Gid_t_sign:
?C: This symbol holds the signedness of a Gid_t.
?C: 1 for unsigned, -1 for signed.
?C:.
?H:#define Gid_t_sign $gidsign  /* GID sign */
?H:.
?T:yyy zzz
?F:!try
: Check if GID is signed
echo " "
case "$gidtype" in
*_t) zzz="$gidtype" ;;
*)   zzz="gid"  ;;
esac
echo "Checking the sign of $zzz..." >&4
cat > try.c <<EOCP
#include <sys/types.h>
#include
 <stdio.h>
int main() {
 $gidtype foo = -1;
 if (foo < 0)
  printf("-1\n");
 else
  printf("1\n");
}
EOCP
set try
if eval $compile; then
 yyy=`$run ./try`
 case "$yyy" in
 ") gidsign=1
  echo "(I can't execute the test program--guessing unsigned.)" >&4
  ;;
 *) gidsign=$yyy
  case "$gidsign" in
   1) echo "Your $zzz is unsigned." ;;
  -1) echo "Your $zzz is signed."   ;;
  esac
  ;;
 esac
else
 gidsign=1
 echo "(I can't compile the test program--guessing unsigned.)" >&4
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/typedefs/gidsign.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: so.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: so.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:30:04  ram
?RCS: patch36: now tells user how he can suppress shared lib lookup (ADO)
?RCS: patch36: removed echo at the top, since it's now in the here-doc (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:07:02  ram
?RCS: patch30: created
?RCS:
?X:
?X: This unit computes the shared-object / shared-lib extension
?X:
?MAKE:so d_libname_unique: test libpth Loc Myread Oldconfig cat Setvar
?MAKE: -pick add $@ %<
?S:so:
?S: This
 variable holds the extension used to identify shared libraries
?S: (also known as shared objects) on the system. Usually set to 'so'.
?S:.
?S:d_libname_unique:
?S: This variable is defined if the target system insists on unique
?S: basenames for shared library files. This is currently true on Android,
?S: false everywhere else we know of.
?S: Defaults to 'undef'.
?S:.
?LINT:set d_libname_unique
?T: xxx
: compute shared library extension
case "$so" in
")
 if xxx=`./loc libc.sl X $libpth`; $test -f "$xxx"; then
  dflt='sl'
 else
  dflt='so'
 fi
 ;;
```

```
*) dflt="$so";;
esac
$cat <<EOM

On some systems, shared libraries may be available.  Answer 'none' if
you want to suppress searching of shared libraries for the remainder
of this configuration.

EOM
rp='What is the file extension used for shared libraries?'
. ./myread
so="$ans"

: Does target system insist that shared library basenames are unique
$cat << EOM

Some dynamic loaders assume that the *basename* of shared library
 filenames
are globally unique.  We'll default this to undef as we assume your system
is not this weird. Set to defined if you're on one of them.

EOM

dflt='n'
rp='Make shared library basenames unique?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*)   val="$undef"  ;;
esac
set d_libname_unique
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/so.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_sigsetjmp.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:44:33  ram
?RCS: patch61: created
?RCS:
?MAKE:d_sigsetjmp: Setvar cat +cc +ccflags +ldflags libs rm
?MAKE: -pick add $@ %<
?S:d_sigsetjmp:
?S: This variable conditionally defines the HAS_SIGSETJMP symbol,
?S: which indicates that the sigsetjmp() routine
 is available to
?S: call setjmp() and optionally save the process's signal mask.
?S:.
?C:HAS_SIGSETJMP:
?C: This variable indicates to the C program that the sigsetjmp()
?C: routine is available to save the calling process's registers
?C: and stack environment for later use by siglongjmp(), and
?C: to optionally save the process's signal mask.  See
?C: Sigjmp_buf, Sigsetjmp, and Siglongjmp.
?C:.
?C:Sigjmp_buf:
?C: This is the buffer type to be used with Sigsetjmp and Siglongjmp.
?C:.
?C:Sigsetjmp:
?C: This macro is used in the same way as sigsetjmp(), but will invoke
?C: traditional setjmp() if sigsetjmp isn't available.
?C: See HAS_SIGSETJMP.
?C:.
?C:Siglongjmp:
?C: This macro is used in the same way as siglongjmp(), but will invoke
?C: traditional longjmp() if siglongjmp isn't available.
?C: See HAS_SIGSETJMP.
?C:.
?H:?%<:#$d_sigsetjmp HAS_SIGSETJMP /**/
?H:?%<:#ifdef HAS_SIGSETJMP
?H:?%<:#define Sigjmp_buf sigjmp_buf
?H:?%<:#define Sigsetjmp(buf,save_mask) sigsetjmp((buf),(save_mask))
?H:?%<:#define
 Siglongjmp(buf,retval) siglongjmp((buf),(retval))
?H:?%<:#else
?H:?%<:#define Sigjmp_buf jmp_buf
?H:?%<:#define Sigsetjmp(buf,save_mask) setjmp((buf))
?H:?%<:#define Siglongjmp(buf,retval) longjmp((buf),(retval))
?H:?%<:#endif
?H:.
```

```
?W:%<:Sigjmp_buf Sigsetjmp Siglongjmp
?F:!set
?LINT:set d_sigsetjmp
: see if sigsetjmp exists
?X: We can't check for these symbols with Inlibc because sigsetjmp
?X: is (sometimes? always?) a macro under GCC
echo " "
case "$d_sigsetjmp" in
")
 $cat >set.c <<'EOP'
#include <setjmp.h>
sigjmp_buf env;
int set = 1;
int main()
{
 if (sigsetjmp(env,1))
  exit(set);
 set = 0;
 siglongjmp(env, 1);
 exit(1);
}
EOP
 if $cc $ccflags $ldflags -o set set.c $libs > /dev/null 2>&1 ; then
  if ./set >/dev/null 2>&1; then
   echo "POSIX sigsetjmp found." >&4
   val="$define"
  else
   $cat >&4 <<EOM
Uh-Oh! You have POSIX sigsetjmp and siglongjmp, but they do not work properly!!
I'll ignore them.
EOM
   val="$undef"
  fi
 else
  echo "sigsetjmp not found."
 >&4
  val="$undef"
 fi
 ;;
*) val="$d_sigsetjmp"
 case "$d_sigsetjmp" in
 $define) echo "POSIX sigsetjmp found." >&4;;
 $undef) echo "sigsetjmp not found." >&4;;
 esac
 ;;
esac
set d_sigsetjmp
eval $setvar
```

```
$rm -f set.c set
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sigsetjmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_syslog.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_syslog: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_syslog:
?S: This variable conditionally defines the I_SYSLOG symbol,
?S: and indicates whether a C program should include <syslog.h>.
?S:.
?C:I_SYSLOG:
?C: This symbol, if defined, indicates that <syslog.h> exists and
?C: should be included.
?C:.
?H:#$i_syslog I_SYSLOG  /**/
?H:.
?LINT:set i_syslog
: see if this is a syslog.h system
set syslog.h i_syslog
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_syslog.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: make.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: make.U,v $
```

```
?RCS: Revision 3.0.1.1  1997/02/28  16:09:40  ram
?RCS: patch61: created
?RCS:
?MAKE:make_set_make : Loc rm sed make
?MAKE: -pick add $@ %<
?S:make_set_make:
?S: Some versions of 'make' set the variable MAKE.  Others do not.
?S: This variable contains the string to be included in Makefile.SH
?S: so that MAKE is set if needed, and not if not needed.
?S: Possible values are:
?S:
?S: make_set_make='#'  #
 If your make program handles this for you,
?S:
?S: make_set_make="MAKE=$make" # if it doesn't.
?S:
?S: This uses a comment character so that we can distinguish a
?S: 'set' value (from a previous config.sh or Configure -D option)
?S: from an uncomputed value.
?S:.
?LINT: extern MAKE
?LINT: change MAKE
?X: This test is based on one from an autoconf-generated configure
?X: script. Autoconf stole a lot from Configure, but now it's our
?X: turn to do so... ;-) -- RAM, 21/02/97
: check whether make sets MAKE
echo " "
echo "Checking if your $make program sets \$(MAKE)..." >&4
case "$make_set_make" in
")
?X: Use sed so we don't have a line begining with @echo.  Metaconfig
?X: will think that's a command like @if or @end.
 $sed 's/^X //' > testmake.mak << 'EOF'
Xall:
X  @echo 'maketemp="$(MAKE)"'
EOF
?X: GNU make sometimes prints "make[1]: Entering...", which would confuse us
 case "`$make -f testmake.mak 2>/dev/null`" in
 *maketemp=*) make_set_make='#' ;;
 *) make_set_make="MAKE=$make" ;;
 esac
 $rm
 -f testmake.mak
 ;;
esac
case "$make_set_make" in
'#') echo "Yup, it does.";;
*) echo "Nope, it doesn't.";;
```

```
esac

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/make.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: warnflags.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Orginal Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: warnflags.U,v $
?RCS: Revision 3.0  1993/08/18  12:10:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:warnflags: cat cc contains Myread Guess Oldconfig Findhdr
?MAKE: -pick add $@ %<
?S:warnflags:
?S: This variable contains any additional C compiler flags to generate
?S: warnings from the compiler. It is up to the Makefile to use this.
?S:.
: offer additional
 warning flags for compilation
$cat <<EOH

You may wish to compile with extra compiler warnings enabled.
Note that doing so enhances your chance of receiving your free set of steak
knives, particularly if you find any bugs and report them.
If you don't want extra warnings, answer "none".

EOH
case "$warnflags" in
") case "$cc" in
 *gcc*)
  dflt="-Wall -Wno-comment"
  if $contains 'fprintf' `./findhdr stdio.h` >/dev/null 2>&1; then
   :
  else
   dflt="$dflt -Wno-implicit"
  fi
```

```
  ;;
 *) dflt="none";;
 esac
 ;;
' ') dflt="none";;
*) dflt="$warnflags";;
esac

rp="Any $cc flags to enable warnings?"
. ./myread
case "$ans" in
none) warnflags=' ';;
*) warnflags="$ans";;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/warnflags.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2016 Tony Cook
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:dtraceobject dtracexnolibs: usedtrace dtrace cc ccflags optimize \
  Compile cat rm_try
?MAKE: -pick add $@ %<
?S:dtraceobject:
?S: Whether we need to build an object file with the dtrace tool.
?S:.
?S:dtracexnolibs:
?S: Whether dtrace accepts -xnolibs.  If available we call dtrace -h
?S: and dtrace -G with -xnolibs to allow dtrace to run in a jail on
?S: FreeBSD.
?S:.
?F: !perldtrace.h
?T:xnolibs
: Probe whether dtrace builds an object, as newer Illumos requires an input
: object file that uses at least one of the probes defined in the .d file
case "$usedtrace" in
$define)
   case "$dtracexnolibs" in
   $define|true|[yY]*)
       dtracexnolibs=$define
 $dtrace -h -xnolibs -s ../perldtrace.d -o perldtrace.h
 ;;
   ' '|'')
```

```
        if $dtrace -h -xnolibs -s ../perldtrace.d -o perldtrace.h 2>&1 ; then
      dtracexnolibs=$define
      echo "Your dtrace accepts -xnolibs"
 elif $dtrace -h -s ../perldtrace.d -o perldtrace.h 2>&1 ; then
      dtracexnolibs=$undef
      echo "Your dtrace doesn't accept -xnolibs"
 else
            echo "Your dtrace doesn't work at all, try building without dtrace support" >&4
      exit 1
 fi
 ;;
   *)
       dtracexnolibs=$undef
 $dtrace -h -s ../perldtrace.d -o perldtrace.h
 ;;
   esac
   case $dtracexnolibs in
   $define) xnolibs=-xnolibs ;;
   *) xnolibs= ;;
   esac

   case "$dtraceobject" in
   $define|true|[yY]*)
       dtraceobject=$define
       ;;
   ' '|'')
       $cat >try.c <<EOM
#include "perldtrace.h"
int main(void) {
   PERL_LOADED_FILE("dummy");
   return 0;
}
EOM
       dtraceobject=$undef
       if $cc -c -o try.o $optimize $ccflags try.c \
                && $dtrace -G $xnolibs -s ../perldtrace.d try.o >/dev/null 2>&1; then

         dtraceobject=$define
           echo "Your dtrace builds an object file"
       fi
       ;;
   *) dtraceobject=$undef ;;
   esac
   $rm_try perldtrace.o perldtrace.h
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/perl/dtraceobject.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: patchlevel.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:18:41  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:patchlevel: package baserev test rsrc
?MAKE: -pick add $@ %<
?T:Revision
?S:patchlevel:
?S: The patchlevel level of this package.
?S: The value of patchlevel comes from the patchlevel.h file.
?S:.
: get the patchlevel
echo " "
echo "Getting the current patchlevel..." >&4
if $test -r
 $rsrc/patchlevel.h;then
 patchlevel=`awk \
  '/^#[  ]*define[  ][  ]*PATCHLEVEL/ {print $3}' \
  < $rsrc/patchlevel.h`
else
 patchlevel=0
fi
echo "(You have $package $baserev PL$patchlevel.)"
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/patchlevel.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Setvar.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Setvar.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  15:58:28  ram
?RCS: patch36: call ./whoa explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:16  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a variable that is intended to be eval'ed in
?X: order to define/undefine a symbol. A consistency check is made
?X: regarding any previous value and a warning is issued if there
?X: is any discrepancy.
?X:
?X:
 To use it, say:
?X: val=<value>
?X: set d_variable
?X: eval $setvar
?X:
?MAKE:Setvar: Whoa
?MAKE: -pick add $@ %<
?LINT:define setvar
?S:setvar:
?S: This shell variable is used internally by Configure to set a value
?S: to a given symbol that is defined or not. A typical use is:
?S: val=<value computed>
?S:  set d_variable
?S:  eval $setvar
?S: That will print a message in case the $val value is not the same
?S: as the previous value of $d_variable.
?S:.
?V:setvar:val
?T:var was td tu
: function used to set '$1' to '$val'
setvar='var=$1; eval "was=\$$1"; td=$define; tu=$undef;
case "$val$was" in
$define$undef) . ./whoa; eval "$var=\$td";;
$undef$define) . ./whoa; eval "$var=\$tu";;
*) eval "$var=$val";;
esac'
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Setvar.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_gethent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_gethent: Inlibc
?MAKE: -pick add $@ %<
?S:d_gethent:
?S: This variable conditionally defines HAS_GETHOSTENT if gethostent() is
?S: available to dup file descriptors.
?S:.
?C:HAS_GETHOSTENT (GETHOSTENT):
?C: This symbol, if defined, indicates that the gethostent routine is
?C: available to lookup host names in some data base or other.
?C:.
?H:#$d_gethent HAS_GETHOSTENT  /**/
?H:.
?LINT:set
 d_gethent
: see if gethostent exists
set gethostent d_gethent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_gethent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_bsdjmp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_bsdjmp.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:31:10  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:09:09  ram
?RCS: patch36: call ./usg explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_bsdjmp: Guess Setvar cat +cc libs rm
?MAKE: -pick add $@ %<
?S:d_bsdjmp:
?S: This variable conditionally defines USE_BSDJMP
 if BSD _setjmp and
?S: _longjmp routines are available to do non-local gotos without saving
?S: or restoring the signal mask flag.
?S:.
?C:USE_BSDJMP (BSDJMP):
?C: This symbol, if defined, indicates that the BSD _setjmp and _longjmp
?C: routines are available to do non-local gotos wihtout saving or restoring
?C: the signal mask flag.
?C:.
?H:#$d_bsdjmp USE_BSDJMP  /**/
?H:.
?F:!set
?LINT:set d_bsdjmp
: see if _setjmp and _longjmp exists
?X: We can't check for these symbols with Inlibc because of the leading "_"
echo " "
case "$d_bsdjmp" in
")
 $cat >set.c <<EOP
#include <setjmp.h>
jmp_buf env;
int set = 1;
int main()
{
 if (_setjmp(env))
  exit(set);
 set = 0;
 _longjmp(env, 1);
 exit(1);
}
```

```
EOP
 if $cc -o set set.c $libs >/dev/null 2>&1; then
  if ./set >/dev/null 2>&1; then
   echo "Good! You have BSD _setjmp and _longjmp routines." >&4
   val="$define"
  else
   $cat <<EOM
Uh-Oh! You have BSD _setjmp and _longjmp, but they do not work properly!!
EOM
   val="$undef"
  fi
 else
  if
 ./usg; then
   echo "You do not have _setjmp and _longjmp, but that's fine." >&4
  else
   cat <<EOM
It sounds strange for a BSD system to miss _setjmp and _longjmp, but that's ok.
EOM
  fi
  val="$undef"
 fi
 ;;
*) val="$d_bsdjmp"
 case "$d_bsdjmp" in
 $define) echo "Good! You have BSD _setjmp and _longjmp routines." >&4;;
 $undef) echo "You do not have _setjmp and _longjmp, but that's fine." >&4;;
 esac
 ;;
esac
set d_bsdjmp
eval $setvar
$rm -f set.c set
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_bsdjmp.U
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```
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?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: i_malloc.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:21  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_malloc: Inhdr
?MAKE: -pick add $@ %<
?S:i_malloc:
?S: This variable conditionally defines the I_MALLOC symbol, and indicates
?S: whether a C program should include <malloc.h>.
?S:.
?C:I_MALLOC:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <malloc.h>.
?C:.
?H:#$i_malloc I_MALLOC  /**/
?H:.
?LINT:set i_malloc
: see if this is a malloc.h system
set
 malloc.h i_malloc
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_malloc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getlogin_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getlogin_r getlogin_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_unistd extern_C
?MAKE: -pick add $@ %<
?S:d_getlogin_r:
?S: This variable conditionally defines the HAS_GETLOGIN_R symbol,
?S: which indicates to the C program that the getlogin_r()
?S: routine is available.
?S:.
?S:getlogin_r_proto:
?S: This variable encodes the prototype of getlogin_r.
?S: It is zero if d_getlogin_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getlogin_r
```

```
?S: is defined.
?S:.
?C:HAS_GETLOGIN_R:
?C: This symbol, if defined, indicates that the getlogin_r routine
?C: is available
 to getlogin re-entrantly.
?C:.
?C:GETLOGIN_R_PROTO:
?C: This symbol encodes the prototype of getlogin_r.
?C: It is zero if d_getlogin_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getlogin_r
?C: is defined.
?C:.
?H:#$d_getlogin_r HAS_GETLOGIN_R /**/
?H:#define GETLOGIN_R_PROTO $getlogin_r_proto /**/
?H:.
?T:try hdrs d_getlogin_r_proto
: see if getlogin_r exists
set getlogin_r d_getlogin_r
eval $inlibc
case "$d_getlogin_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_unistd unistd.h"
 case "$d_getlogin_r_proto:$usethreads" in
 ":define") d_getlogin_r_proto=define
  set d_getlogin_r_proto getlogin_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getlogin_r_proto" in
 define)
 case "$getlogin_r_proto" in
 "|0) try='int getlogin_r(char*, size_t);'
 ./protochk "$extern_C $try" $hdrs && getlogin_r_proto=I_BW ;;
 esac
 case "$getlogin_r_proto" in
 "|0) try='int getlogin_r(char*, int);'
 ./protochk "$extern_C $try" $hdrs && getlogin_r_proto=I_BI
 ;;
 esac
 case "$getlogin_r_proto" in
 "|0) try='char* getlogin_r(char*, size_t);'
 ./protochk "$extern_C $try" $hdrs && getlogin_r_proto=B_BW ;;
 esac
 case "$getlogin_r_proto" in
 "|0) try='char* getlogin_r(char*, int);'
 ./protochk "$extern_C $try" $hdrs && getlogin_r_proto=B_BI ;;
 esac
```

```
 case "$getlogin_r_proto" in
 "|0) d_getlogin_r=undef
  getlogin_r_proto=0
  echo "Disabling getlogin_r, cannot determine prototype." >&4 ;;
 * ) case "$getlogin_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getlogin_r_proto="REENTRANT_PROTO_$getlogin_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getlogin_r has no prototype, not using it." >&4 ;;
  esac
  d_getlogin_r=undef
  getlogin_r_proto=0
  ;;
 esac
 ;;
*) getlogin_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getlogin_r.U
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```
?RCS: $Id: afs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: afs.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:23:06  ram
?RCS: patch61: can now explicitly tell Configure whether AFS is running
?RCS:
?RCS: Revision 3.0.1.1  1993/08/24  12:24:43  ram
?RCS: patch3: created
?RCS:
?MAKE:afs afsroot: test
?MAKE: -pick add $@ %<
?S:afs:
```

```
?S: This variable is set to 'true' if AFS (Andrew File System) is used
?S: on the system, 'false' otherwise.  It is possible to override this
?S: with a hint value or command line option,
 but you'd better know
?S: what you are doing.
?S:.
?S:afsroot:
?S: This variable is by default set to '/afs'. In the unlikely case
?S: this is not the correct root, it is possible to override this with
?S: a hint value or command line option.  This will be used in subsequent
?S: tests for AFSness in the configure and test process.
?S:.
: allow them to override the AFS root
case "$afsroot" in
") afsroot=/afs ;;
*) afsroot=$afsroot ;;
esac

: is AFS running?
echo " "
case "$afs" in
$define|true) afs=true ;;
$undef|false) afs=false ;;
*) if $test -d $afsroot; then
  afs=true
 else
  afs=false
 fi
 ;;
esac
if $afs; then
 echo "AFS may be running... I'll be extra cautious then..." >&4
else
 echo "AFS does not seem to be running..." >&4
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/afs.U
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```
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```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: nblock_io.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:17:14  ram
?RCS: patch61: simplify here document for shells that can't handle them well
?RCS: patch61: force use of "startsh" at the head of the generated script
?RCS: patch61: added new files to the ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  14:13:22  ram
?RCS: patch56: created
?RCS:
?X:
?X: Simplify here document for shells that can't handle them well.
?X: (Problem reported on FreeBSD; it's unclear if this helps.)  --AD
?X:
?MAKE:o_nonblock
 eagain rd_nodata d_eofnblk: cat rm_try +cc +ccflags +ldflags \
 d_open3 h_sysfile h_fcntl signal_t hint Oldconfig Setvar startsh Warn
?MAKE: -pick add $@ %<
?S:o_nonblock:
?S: This variable bears the symbol value to be used during open() or fcntl()
?S: to turn on non-blocking I/O for a file descriptor. If you wish to switch
?S: between blocking and non-blocking, you may try ioctl(FIOSNBIO) instead,
?S: but that is only supported by some devices.
?S:.
?S:eagain:
?S: This variable bears the symbolic errno code set by read() when no
?S: data is present on the file and non-blocking I/O was enabled (otherwise,
?S: read() blocks naturally).
?S:.
?S:rd_nodata:
?S: This variable holds the return code from read() when no data is
?S: present. It should be -1, but some systems return 0 when O_NDELAY is
?S: used, which is a shame because you cannot make the difference between
?S: no data and an EOF.. Sigh!
?S:.
?S:d_eofnblk:
?S: This variable conditionally defines EOF_NONBLOCK
 if EOF can be seen
?S: when reading from a non-blocking I/O source.
?S:.
?C:VAL_O_NONBLOCK:
?C: This symbol is to be used during open() or fcntl(F_SETFL) to turn on
?C: non-blocking I/O for the file descriptor. Note that there is no way
?C: back, i.e. you cannot turn it blocking again this way. If you wish to
?C: alternatively switch between blocking and non-blocking, use the
?C: ioctl(FIOSNBIO) call instead, but that is not supported by all devices.
```

```
?C:.
?C:VAL_EAGAIN:
?C: This symbol holds the errno error code set by read() when no data was
?C: present on the non-blocking file descriptor.
?C:.
?C:RD_NODATA:
?C: This symbol holds the return code from read() when no data is present
?C: on the non-blocking file descriptor. Be careful! If EOF_NONBLOCK is
?C: not defined, then you can't distinguish between no data and EOF by
?C: issuing a read(). You'll have to find another way to tell for sure!
?C:.
?C:EOF_NONBLOCK:
?C: This symbol, if defined, indicates to the C program that a read() on
?C: a
 non-blocking file descriptor will return 0 on EOF, and not the value
?C: held in RD_NODATA (-1 usually, in that case!).
?C:.
?H:#define VAL_O_NONBLOCK $o_nonblock
?H:#define VAL_EAGAIN $eagain
?H:#define RD_NODATA $rd_nodata
?H:#$d_eofnblk EOF_NONBLOCK
?H:.
?F:!try !try.out !try.ret !try.err !mtry
?T:status
?LINT:use d_open3
: check for non-blocking I/O stuff
case "$h_sysfile" in
true) echo "#include <sys/file.h>" > head.c;;
*)
 case "$h_fcntl" in
 true) echo "#include <fcntl.h>" > head.c;;
 *) echo "#include <sys/fcntl.h>" > head.c;;
 esac
 ;;
esac
echo " "
echo "Figuring out the flag used by open() for non-blocking I/O..." >&4
case "$o_nonblock" in
")
 $cat head.c > try.c
 $cat >>try.c <<'EOCP'
int main() {
#ifdef O_NONBLOCK
 printf("O_NONBLOCK\n");
 exit(0);
#endif
#ifdef O_NDELAY
 printf("O_NDELAY\n");
```

```
 exit(0);
#endif
?X: Stevens "Advanced Programming in the UNIX Environment" page 364 mentions
?X: the FNDELAY symbol, used in 4.33BSD (source: Paul Marquess).
#ifdef FNDELAY
 printf("FNDELAY\n");
 exit(0);
#endif
 exit(0);
}
EOCP
 if
 $cc $ccflags $ldflags -o try try.c >/dev/null 2>&1; then
  o_nonblock=`./try`
  case "$o_nonblock" in
  ") echo "I can't figure it out, assuming O_NONBLOCK will do.";;
  *) echo "Seems like we can use $o_nonblock.";;
  esac
 else
  echo "(I can't compile the test program; pray O_NONBLOCK is right!)"
 fi
 ;;
*) echo "Using $hint value $o_nonblock.";;
esac
$rm_try

echo " "
echo "Let's see what value errno gets from read() on a $o_nonblock file..." >&4
case "$eagain" in
")
 $cat head.c > try.c
 $cat >>try.c <<EOCP
#include <errno.h>
#include <sys/types.h>
#include <signal.h>
#define MY_O_NONBLOCK $o_nonblock
extern int errno;
$signal_t blech(x) int x; { exit(3); }
EOCP
 $cat >> try.c <<'EOCP'
int main()
{
 int pd[2];
 int pu[2];
 char buf[1];
 char string[100];

 pipe(pd); /* Down: child -> parent */
```

```
 pipe(pu); /* Up: parent -> child */
 if (0 != fork()) {
  int ret;
  close(pd[1]); /* Parent reads from pd[0] */
  close(pu[0]); /*
 Parent writes (blocking) to pu[1] */
  if (-1 == fcntl(pd[0], F_SETFL, MY_O_NONBLOCK))
   exit(1);
  signal(SIGALRM, blech);
  alarm(5);
  if ((ret = read(pd[0], buf, 1)) > 0) /* Nothing to read! */
   exit(2);
  sprintf(string, "%d\n", ret);
  write(2, string, strlen(string));
  alarm(0);
#ifdef EAGAIN
  if (errno == EAGAIN) {
   printf("EAGAIN\n");
   goto ok;
  }
#endif
#ifdef EWOULDBLOCK
  if (errno == EWOULDBLOCK)
   printf("EWOULDBLOCK\n");
#endif
 ok:
  write(pu[1], buf, 1); /* Unblocks child, tell it to close our pipe */
  sleep(2);    /* Give it time to close our pipe */
  alarm(5);
  ret = read(pd[0], buf, 1); /* Should read EOF */
  alarm(0);
  sprintf(string, "%d\n", ret);
  write(3, string, strlen(string));
  exit(0);
 }

 close(pd[0]);   /* We write to pd[1] */
 close(pu[1]);   /* We read from pu[0] */
 read(pu[0], buf, 1); /* Wait for parent to signal us we may continue */
 close(pd[1]);   /* Pipe pd is now fully closed! */
 exit(0);    /* Bye bye, thank you for playing!
 */
}
EOCP
 if $cc $ccflags $ldflags -o try try.c >/dev/null 2>&1; then
?X: Use script to avoid the possible 'alarm call' message
  echo "$startsh" >mtry
  echo "./try >try.out 2>try.ret 3>try.err || exit 4" >>mtry
```

```
 chmod +x mtry
 ./mtry >/dev/null 2>&1
 case $? in
 0) eagain=`$cat try.out`;;
 1) echo "Could not perform non-blocking setting!";;
 2) echo "I did a successful read() for something that was not there!";;
 3) echo "Hmm... non-blocking I/O does not seem to be working!";;
 *) echo "Something terribly wrong happened during testing.";;
 esac
 rd_nodata=`$cat try.ret`
 echo "A read() system call with no data present returns $rd_nodata."
 case "$rd_nodata" in
 0|-1) ;;
 *)
  echo "(That's peculiar, fixing that to be -1.)"
  rd_nodata=-1
  ;;
 esac
 case "$eagain" in
 ")
  echo "Forcing errno EAGAIN on read() with no data available."
  eagain=EAGAIN
  ;;
 *)
  echo "Your read() sets errno to $eagain when no data is available."
  ;;
 esac
 status=`$cat
try.err`
 case "$status" in
 0) echo "And it correctly returns 0 to signal EOF.";;
 -1) echo "But it also returns -1 to signal EOF, so be careful!";;
 *) echo "However, your read() returns '$status' on EOF??";;
 esac
 val="$define"
 if test "$status" = "$rd_nodata"; then
  ./warn "your read() can't distinguish between EOF and no data!"
  val="$undef"
 fi
else
 echo "I can't compile the test program--assuming errno EAGAIN will do."
 eagain=EAGAIN
fi
set d_eofnblk
eval $setvar
;;
*)
echo "Using $hint value $eagain."
```

```
 echo "Your read() returns $rd_nodata when no data is present."
 case "$d_eofnblk" in
 "$define") echo "And you can see EOF because read() returns 0.";;
 "$undef") echo "But you can't see EOF status from read() returned value.";;
 *)
?X: Should not happen, but if it does, assume the worst!
  echo "(Assuming you can't see EOF status from read anyway.)"
  d_eofnblk=$undef
  ;;
 esac
 ;;
esac
$rm_try head.c mtry
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/nblock_io.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_exp2: Inlibc
?MAKE: -pick add $@ %<
?S:d_exp2:
?S: This variable conditionally defines the HAS_EXP2 symbol, which
?S: indicates to the C program that the exp2() routine is available.
?S:.
?C:HAS_EXP2:
?C: This symbol, if defined, indicates that the exp2 routine is
?C: available to do the 2**x function.
?C:.
?H:#$d_exp2 HAS_EXP2  /**/
?H:.
?LINT:set d_exp2
: see if exp2 exists
set exp2 d_exp2
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_exp2.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_stdbool.U,v $
?RCS:
?RCS: Copyright (c) 2011 H.Merijn Brand
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_stdbool: cat Compile rm_try Setvar
?MAKE: -pick add $@ %<
?S:i_stdbool:
?S: This variable conditionally defines the I_STDBOOL symbol, which
?S: indicates to the C program that <stdbool.h> exists and should
?S: be included.
?S:.
?C:I_STDBOOL:
?C: This symbol, if defined, indicates that <stdbool.h> exists and
?C: can be included.
?C:.
?H:#$i_stdbool I_STDBOOL  /**/
?H:.
?LINT:set i_stdbool
: see if stdbool is available
: we want a real compile instead of Inhdr because some Solaris systems
: have stdbool.h, but it can only be used if the compiler indicates it
: is sufficiently c99-compliant.
echo " "
$cat >try.c <<EOCP
#include <stdio.h>
#include <stdbool.h>
int func(bool x)
{
   return
 x ? 1 : 0;
}
int main(int argc, char **argv)
{
   return func(0);
}
EOCP
set try
if eval $compile; then
 echo "<stdbool.h> found." >&4
 val="$define"
else
 echo "<stdbool.h> NOT found." >&4
 val="$undef"
fi
$rm_try
set i_stdbool
eval $setvar
```

Found in path(s):

* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_stdbool.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: perlpath.U,v $
?RCS: Revision 3.0.1.2  1995/09/25  09:17:04  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:33:53  ram
?RCS: patch45: can now use Loc variables since path stripping is deferred
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:32  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this unit is to locate perl good enough to construct a #!
?X:
?MAKE:perlpath: Getfile Oldconfig Loc perl
?MAKE: -pick
 add $@ %<
?Y:TOP
?S:perlpath:
?S: This variable contains the eventual value of the PERLPATH symbol,
?S: which contains the absolute location of the perl interpreter.
?S:.
?C:PERLPATH:
?C: This symbol contains the absolute location of the perl interpreter.
?C:.
?H:#define PERLPATH "$perlpath"  /**/
?H:.
: determine perl absolute location
case "$perlpath" in
")
 if test -f /usr/bin/perl; then
  dflt=/usr/bin/perl
 else
  case "$perl" in
  */*) dflt="$perl";;
```

```
  *) dflt=/usr/bin/perl;;
  esac
 fi
 ;;
*)  dflt="$perlpath"
 ;;
esac
echo " "
fn=f~/
rp="Where is perl located on your system?"
. ./getfile
perlpath="$ans"
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/perlpath.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_longdbl.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_longdbl.U,v $
?RCS:
?MAKE:d_longdbl longdblsize d_ldexpl longdblkind \
 d_long_double_style_ieee d_long_double_style_ieee_doubledouble \
 d_long_double_style_ieee_extended d_long_double_style_ieee_std \
 d_long_double_style_vax: Compile Setvar Myread \
 Inlibc run echo cat rm_try test doublesize i_stdlib
?MAKE: -pick add $@ %<
?S:d_longdbl:
?S: This variable conditionally defines HAS_LONG_DOUBLE if
?S: the long double type is supported.
?S:.
?S:d_ldexpl:
?S: This variable conditionally defines the HAS_LDEXPL symbol, which
?S: indicates to the C program that the ldexpl() routine is available.
?S:.
?S:longdblsize:
?S: This variable contains the value of the LONG_DOUBLESIZE symbol,
 which
?S: indicates to the C program how many bytes there are in a long double,
?S: if this system supports long doubles.  Note that this is
?S: sizeof(long double), which may include unused bytes.
?S:.
```

```
?S:longdblkind:
?S: This variable, if defined, encodes the type of a long double:
?S:  0 = double,
?S:  1 = IEEE 754 128-bit little endian,
?S:  2 = IEEE 754 128-bit big endian,
?S:  3 = x86 80-bit little endian,
?S:  4 = x86 80-bit big endian,
?S:  5 = double-double 128-bit little endian,
?S:  6 = double-double 128-bit big endian,
?S:  7 = 128-bit mixed-endian double-double (64-bit LEs in BE),
?S:  8 = 128-bit mixed-endian double-double (64-bit BEs in LE),
?S:  9 = 128-bit PDP-style mixed-endian long doubles,
?S: -1 = unknown format.
?S:.
?S:d_long_double_style_ieee:
?S: This variable conditionally defines LONG_DOUBLE_STYLE_IEEE
?S: if the long double is any of the IEEE 754 style long doubles:
?S: LONG_DOUBLE_STYLE_IEEE_STD, LONG_DOUBLE_STYLE_IEEE_EXTENDED,
?S: LONG_DOUBLE_STYLE_IEEE_DOUBLEDOUBLE.
?S:.
?S:d_long_double_style_ieee_doubledouble:
?S: This
 variable conditionally defines LONG_DOUBLE_STYLE_IEEE_DOUBLEDOUBLE
?S: if the long double is the 128-bit IEEE 754 double-double.
?S:.
?S:d_long_double_style_ieee_extended:
?S: This variable conditionally defines LONG_DOUBLE_STYLE_IEEE_EXTENDED
?S: if the long double is the 80-bit IEEE 754 extended precision.
?S: Note that despite the 'extended' this is less than the 'std',
?S: since this is an extension of the double precision.
?S:.
?S:d_long_double_style_ieee_std:
?S: This variable conditionally defines LONG_DOUBLE_STYLE_IEEE_STD
?S: if the long double is the 128-bit IEEE 754.
?S:.
?S:d_long_double_style_vax:
?S: This variable conditionally defines LONG_DOUBLE_STYLE_VAX
?S: if the long double is the 128-bit VAX format H.
?S:.
?C:HAS_LONG_DOUBLE:
?C: This symbol will be defined if the C compiler supports long
?C: doubles.
?C:.
?C:LONG_DOUBLESIZE:
?C: This symbol contains the size of a long double, so that the
?C: C
 preprocessor can make decisions based on it.  It is only
?C: defined if the system supports long doubles.  Note that this
```

?C: is sizeof(long double), which may include unused bytes.
?C:.
?C:HAS_LDEXPL:
?C: This symbol, if defined, indicates that the ldexpl routine is
?C: available to shift a long double floating-point number
?C: by an integral power of 2.
?C:.
?C:LONG_DOUBLEKIND:
?C: LONG_DOUBLEKIND will be one of
?C: LONG_DOUBLE_IS_DOUBLE
?C: LONG_DOUBLE_IS_IEEE_754_128_BIT_LITTLE_ENDIAN
?C: LONG_DOUBLE_IS_IEEE_754_128_BIT_BIG_ENDIAN
?C: LONG_DOUBLE_IS_X86_80_BIT_LITTLE_ENDIAN
?C: LONG_DOUBLE_IS_X86_80_BIT_BIG_ENDIAN
?C: LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_LE
?C: LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_BE
?C: LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_BE
?C: LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_LE
?C: LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LITTLE_ENDIAN
?C: LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BIG_ENDIAN
?C: LONG_DOUBLE_IS_VAX_H_FLOAT
?C: LONG_DOUBLE_IS_UNKNOWN_FORMAT
?C: It is only defined
 if the system supports long doubles.
?C:.
?C:LONG_DOUBLE_STYLE_IEEE:
?C: This symbol, if defined, indicates that the long double
?C: is any of the IEEE 754 style long doubles:
?C: LONG_DOUBLE_STYLE_IEEE_STD, LONG_DOUBLE_STYLE_IEEE_EXTENDED,
?C: LONG_DOUBLE_STYLE_IEEE_DOUBLEDOUBLE.
?C:.
?C:LONG_DOUBLE_STYLE_IEEE_DOUBLEDOUBLE:
?C: This symbol, if defined, indicates that the long double is
?C: the 128-bit double-double.
?C:.
?C:LONG_DOUBLE_STYLE_IEEE_EXTENDED:
?C: This symbol, if defined, indicates that the long double is
?C: the 80-bit IEEE 754. Note that despite the 'extended' this
?C: is less than the 'std', since this is an extension of
?C: the double precision.
?C:.
?C:LONG_DOUBLE_STYLE_IEEE_STD:
?C: This symbol, if defined, indicates that the long double is
?C: the 128-bit IEEE 754.
?C:.
?C:LONG_DOUBLE_STYLE_VAX:
?C: This symbol, if defined, indicates that the long double is
?C: the 128-bit VAX format H.

```
?C:.
?H:#$d_ldexpl  HAS_LDEXPL  /**/
?H:#$d_longdbl HAS_LONG_DOUBLE  /**/
?H:?LONG_DOUBLESIZE:#ifdef
 HAS_LONG_DOUBLE
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLESIZE $longdblsize  /**/
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLEKIND $longdblkind  /**/
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLE    0
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_IEEE_754_128_BIT_LITTLE_ENDIAN 1
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_IEEE_754_128_BIT_BIG_ENDIAN 2
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_X86_80_BIT_LITTLE_ENDIAN  3
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_X86_80_BIT_BIG_ENDIAN  4
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_LE 5
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_BE 6
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_BE 7
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_LE 8
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_VAX_H_FLOAT   9
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_UNKNOWN_FORMAT   -1
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LITTLE_ENDIAN
LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_LE
 /* back-compat */
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BIG_ENDIAN
LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_BE /* back-compat */
?H:?LONG_DOUBLESIZE:#$d_long_double_style_ieee LONG_DOUBLE_STYLE_IEEE
?H:?LONG_DOUBLESIZE:#$d_long_double_style_ieee_doubledouble
LONG_DOUBLE_STYLE_IEEE_DOUBLEDOUBLE
?H:?LONG_DOUBLESIZE:#$d_long_double_style_ieee_extended
LONG_DOUBLE_STYLE_IEEE_EXTENDED
?H:?LONG_DOUBLESIZE:#$d_long_double_style_ieee_std LONG_DOUBLE_STYLE_IEEE_STD
?H:?LONG_DOUBLESIZE:#$d_long_double_style_vax LONG_DOUBLE_STYLE_VAX
?H:?LONG_DOUBLESIZE:#endif
?H:.
?F:!try
?LINT:known LONG_DOUBLE_IS_DOUBLE LONG_DOUBLE_IS_IEEE_754_128_BIT_LITTLE_ENDIAN
?LINT:known LONG_DOUBLE_IS_IEEE_754_128_BIT_BIG_ENDIAN
LONG_DOUBLE_IS_X86_80_BIT_LITTLE_ENDIAN
?LINT:known LONG_DOUBLE_IS_X86_80_BIT_BIG_ENDIAN
LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LITTLE_ENDIAN
?LINT:known LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BIG_ENDIAN
LONG_DOUBLE_IS_UNKNOWN_FORMAT
?LINT:known
 LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_LE
?LINT:known LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_BE
?LINT:known LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_BE
?LINT:known LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_LE
?LINT:known LONG_DOUBLE_IS_VAX_H_FLOAT
?LINT:set d_longdbl
?LINT:set d_ldexpl
```

```
: check for long doubles
echo " " >&4
echo "Checking to see if you have long double..." >&4
echo 'int main() { long double x = 7.0; }' > try.c
set try
if eval $compile; then
 val="$define"
 echo "You have long double." >&4
else
 val="$undef"
 echo "You do not have long double." >&4
fi
$rm_try
set d_longdbl
eval $setvar

: see if ldexpl exists
set ldexpl d_ldexpl
eval $inlibc

@if LONG_DOUBLESIZE || longdblsize
: check for length of long double
?X:  Check only if d_longdbl and if longdblsize is not already set.
case "${d_longdbl}${longdblsize}" in
$define)
 echo " " >&4
 echo "Checking to see how big your long doubles are..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
 printf("%d\n", sizeof(long
 double));
}
EOCP
 set try
?X: Don't use compile_ok because some compilers warn you that they have
?X: 'long double' as just 'double'.
 set try
 if eval $compile; then
  longdblsize=`$run ./try`
  echo "Your long doubles are $longdblsize bytes long." >&4
 else
  dflt='8'
  echo " " >&4
  echo "(I can't seem to compile the test program.  Guessing...)" >&4
  rp="What is the size of a long double (in bytes)?"
  . ./myread
```

```
  longdblsize="$ans"
 fi
 if $test "X$doublesize" = "X$longdblsize"; then
  echo "That isn't any different from an ordinary double." >&4
  echo "I'll keep your setting anyway, but you may see some" >&4
  echo "harmless compilation warnings." >&4
 fi
 ;;
esac
$rm_try
@end

$echo "Checking the kind of long doubles you have..." >&4
case "$d_longdbl" in
define)
$cat <<EOP >try.c
#$i_stdlib I_STDLIB
#define LONGDBLSIZE $longdblsize
#define DOUBLESIZE $doublesize
#include <float.h>
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <stdio.h>
static const long double
 d = -0.1L;
int main() {
 unsigned const char* b = (unsigned const char*)(&d);
#if DOUBLESIZE == LONGDBLSIZE
 printf("0\n"); /* if it floats like double */
 exit(0);
#endif
#if (LDBL_MANT_DIG == 113 || FLT128_MANT_DIG == 113) && LONGDBLSIZE == 16
 if (b[0] == 0x9A && b[1] == 0x99 && b[15] == 0xBF) {
   /* IEEE 754 128-bit little-endian */
   printf("1\n");
   exit(0);
 }
 if (b[0] == 0xBF && b[14] == 0x99 && b[15] == 0x9A) {
   /* IEEE 128-bit big-endian, e.g. solaris sparc */
   printf("2\n");
   exit(0);
 }
#endif
/* For alignment 32-bit platforms have the 80 bits in 12 bytes,
* while 64-bits platforms have it in 16 bytes.  The trailing bytes
* cannot be trusted. */
#if LDBL_MANT_DIG == 64 && (LONGDBLSIZE == 16 || LONGDBLSIZE == 12)
```

```
 if (b[0] == 0xCD && b[9] == 0xBF) {
   /* x86 80-bit little-endian, sizeof 12 (ILP32, Solaris x86)
    * or 16 (LP64, Linux and OS X), 4 or 6 bytes of padding.
    * Also known as "extended precision". */
   printf("3\n");
   exit(0);
  }
 if (b[0] == 0xBF && b[9] == 0xCD) {
   /* Is there ever big-endian 80-bit, really?
    *
    * The Motorola 68881 had another "extended precision" format:
    * sign:1 exp:15 zero:16 integer:1 mantissa:63
    * for total of 96 bits of bytes.  The zero bits were unused.
    * See "M68000 FAMILY PROGRAMMER'S REFERENCE MANUAL" for more details.
    * If it ever becomes relevant, this format should be allocated a
    * new doublekind code since it is quite different from the Intel x87.
    */
   printf("4\n");
   exit(0);
 }
#endif
#if (LDBL_MANT_DIG == 106 || LDBL_MANT_DIG == 107) && LONGDBLSIZE == 16
 /* software "double double", the 106 is 53+53.
  * but irix thinks it is 107. */
 if (b[0] == 0x9A && b[7] == 0x3C && b[8] == 0x9A && b[15] == 0xBF) {
   /* double double 128-bit fully little-endian,
    * little-endian doubles in little-endian order,
    * 9a 99 99 99 99 99 59 3c 9a 99 99 99 99 99 b9 bf */
   printf("5\n");
   exit(0);
 }
 if (b[0] == 0xBF && b[7]
 == 0x9A && b[8] == 0x3C && b[15] == 0x9A) {
   /* double double 128-bit fully big-endian,
    * big-endian doubles in big-endian order,
    * e.g. PPC/Power and MIPS:
    * bf b9 99 99 99 99 99 9a 3c 59 99 99 99 99 99 9a */
   printf("6\n");
   exit(0);
 }
 if (b[0] == 0x9A && b[7] == 0xBF && b[8] == 0x9A && b[15] == 0x3C) {
   /* double double 128-bit mixed endian.
    * little-endian doubles in big-endian order,
    * e.g. ppc64el,
    * 9a 99 99 99 99 99 b9 bf 9a 99 99 99 99 99 59 3c */
   printf("7\n");
   exit(0);
 }
```

```
 if (b[0] == 0x3C && b[7] == 0x9A && b[8] == 0xBF && b[15] == 0x9A) {
   /* double double 128-bit mixed endian,
    * big-endian doubles in little-endian order,
    * 3c 59 99 99 99 99 99 9a bf b9 99 99 99 99 99 9a */
   printf("8\n");
   exit(0);
 }
#endif
/* We are largely making this up because it may well be
* that the VAX format H was never made available to C,
* only to Fortran. */
#if LONGDBLSIZE == 16 && defined(__vax__)
 if (b[0]
 == 0xFD && b[15] == 0x99) {
   /* VAX format H, PDP-11 mixed endian. */
   printf("9\n");
   exit(0);
 }
#endif
 printf("-1\n"); /* unknown */
 exit(0);
}
EOP
set try
if eval $compile; then
   longdblkind=`$run ./try`
else
   longdblkind=-1
fi
;;
*) longdblkind=0 ;;
esac
case "$longdblkind" in
0) echo "Your long doubles are doubles." >&4 ;;
1) echo "You have IEEE 754 128-bit little endian long doubles." >&4 ;;
2) echo "You have IEEE 754 128-bit big endian long doubles." >&4 ;;
3) echo "You have x86 80-bit little endian long doubles." >&4 ;;
4) echo "You have x86 80-bit big endian long doubles." >&4 ;;
5) echo "You have 128-bit fully little-endian double-double long doubles (64-bit LEs in LE)." >&4 ;;
6) echo "You have 128-bit fully big-endian double-double long doubles (64-bit BEs in BE)." >&4 ;;
7) echo "You have 128-bit mixed-endian double-double long doubles (64-bit LEs in BE)." >&4 ;;
8) echo "You have 128-bit mixed-endian double-double long doubles (64-bit BEs in LE)." >&4
 ;;
9) echo "You have 128-bit PDP-style mixed-endian long doubles (VAX format H)." >&4 ;;
*) echo "Cannot figure out your long double." >&4 ;;
esac
d_long_double_style_ieee=$undef
d_long_double_style_ieee_std=$undef
```

```
d_long_double_style_ieee_extended=$undef
d_long_double_style_ieee_doubledouble=$undef
d_long_double_style_vax=$undef
case "$longdblkind" in
1|2|3|4|5|6|7|8) d_long_double_style_ieee=$define ;;
esac
case "$longdblkind" in
1|2) d_long_double_style_ieee_std=$define ;;
esac
case "$longdblkind" in
3|4) d_long_double_style_ieee_extended=$define ;;
esac
case "$longdblkind" in
5|6|7|8) d_long_double_style_ieee_doubledouble=$define ;;
esac
case "$longdblkind" in
9) d_long_double_style_vax=$define ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_longdbl.U
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```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fpclass: Inlibc
?MAKE: -pick add $@ %<
?S:d_fpclass:
?S: This variable conditionally defines the HAS_FPCLASS symbol, which
?S: indicates to the C program that the fpclass() routine is available.
?S:.
?C:HAS_FPCLASS:
?C: This symbol, if defined, indicates that the fpclass routine is
?C: available to classify doubles.  Available for example in Solaris/SVR4.
?C: The returned values are defined in <ieeefp.h> and are:
?C:
?C: FP_SNAN  signaling NaN
?C: FP_QNAN  quiet NaN
?C: FP_NINF  negative infinity
?C: FP_PINF  positive infinity
?C: FP_NDENORM negative denormalized non-zero
```

```
?C: FP_PDENORM positive denormalized non-zero
?C: FP_NZERO negative zero
?C: FP_PZERO positive zero
?C: FP_NNORM negative normalized
 non-zero
?C: FP_PNORM positive normalized non-zero
?C:.
?H:#$d_fpclass HAS_FPCLASS  /**/
?H:.
?LINT:set d_fpclass
: see if fpclass exists
set fpclass d_fpclass
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fpclass.U
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```
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?RCS:
?MAKE:d_isnormal: cat Compile Setvar rm_try
?MAKE: -pick add $@ %<
?S:d_isnormal:
?S: This variable conditionally defines the HAS_ISNORMAL symbol, which
?S: indicates to the C program that the isnormal() routine is available.
?S:.
?C:HAS_ISNORMAL:
?C: This symbol, if defined, indicates that the isnormal routine is
?C: available to check whether a double is normal (non-zero normalized).
?C:.
?H:#$d_isnormal HAS_ISNORMAL  /**/
?H:.
?LINT:set d_isnormal
: check for isnormal
echo "Checking to see if you have isnormal..." >&4
$cat >try.c <<EOCP
#include <math.h>
int main() { return isnormal(0.0); }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have isnormal."
else
 val="$undef"
 echo "You do not have isnormal."
```

```
fi
$rm_try
set d_isnormal
eval $setvar

Found
 in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_isnormal.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_scannl.U,v 3.0.1.2 1997/02/28 15:41:27 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_scannl.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:41:27  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  13:59:12  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:00  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Does the scanf routine read "\n" correctly ? This is was not
?X: the case on AIX...
?X:
?MAKE:d_scannl: cat rm Setvar Compile run
?MAKE: -pick
 add $@ %<
?S:d_scannl:
?S: This variable conditionally defines SCAN_NL, which indicates
?S: whether the C library routines scanf() and friends can deal with
?S: a '\n' in the input correctly. They do most of the time.
?S:.
?C:SCAN_NL:
?C: This symbol is defined if the C library routines scanf() and friends
?C: can deal with a '\n' in the input correctly, so that you can say
?C: scanf("%d\n"); instead of scanf("%d"); getc(c); to handle the '\n'.
?C:.
```

```
?H:#$d_scannl SCAN_NL  /* scanf("%d\n") works */
?H:.
?F:!try
?LINT:set d_scannl
: does scanf handle "\n" correctly ?
echo " "
val="$define"
?X: I really want to say "\n" instead of '\n', because I am referring
?X: to the string given as argument to scanf().
echo 'Let""""s see if scanf() handles "\\n" correctly...' >&4
$cat >try.c <<'EOCP'
int main()
{
 int i = 0, j = 0;
 scanf("%d\n%d", &i, &j);
 if (j != 3)
  exit(1);
 exit(0);
}
EOCP
set try
if eval $compile_ok; then
 if $run ./try <<'EOD'
2
3
EOD
 then
  echo "Yes, it does."
 else
  echo
 "No, it doesn't."
  val="$undef"
 fi
else
 echo "(I can't seem to compile the test program. Assuming it does.)"
fi
set d_scannl
eval $setvar
$rm -f try.* try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_scannl.U
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```
?RCS: $Id: sizetype.U,v 3.0.1.1 1994/08/29 16:32:10 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
```

```
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: sizetype.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:32:10  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:sizetype: Myread Typedef
?MAKE: -pick add $@ %<
?S:sizetype:
?S: This variable defines sizetype to be something like size_t,
?S: unsigned long, or whatever type is used to declare length
?S: parameters for string functions.
?S:.
?C:Size_t:
?C: This symbol holds the type used
 to declare length parameters
?C: for string functions.  It is usually size_t, but may be
?C: unsigned long, int, etc.  It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Size_t $sizetype  /* length parameter for string functions */
?H:.
?LINT: set sizetype
: see what type is used for size_t
rp="What is the type used for the length parameter for string functions?"
set size_t sizetype 'unsigned int' stdio.h sys/types.h
eval $typedef_ask
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/sizetype.U
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```
?RCS: $Id: i_shadow.U,v $
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?RCS:
?MAKE:i_shadow: Inhdr Hasfield
```

```
?MAKE: -pick add $@ %<
?S:i_shadow:
?S: This variable conditionally defines the I_SHADOW symbol, and indicates
?S: whether a C program should include <shadow.h>.
?S:.
?C:I_SHADOW:
?C: This symbol, if defined, indicates that <shadow.h> exists and
?C: should be included.
?C:.
?H:#$i_shadow I_SHADOW  /**/
?H:.
?LINT:set i_shadow
: see if this is a shadow.h system
set shadow.h i_shadow
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_shadow.U
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_scannl.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:41:27  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  13:59:12  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:00  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Does the scanf routine read "\n" correctly ? This is was not
?X: the case on AIX...
?X:
?MAKE:d_scannl: cat +cc +ccflags rm Setvar
?MAKE: -pick add $@ %<
?S:d_scannl:
```

```
?S: This
 variable conditionally defines SCAN_NL, which indicates
?S: wether the C library routines scanf() and friends can deal with
?S: a '\n' in the input correctly. They do most of the time.
?S:.
?C:SCAN_NL:
?C: This symbol is defined if the C library routines scanf() and friends
?C: can deal with a '\n' in the input correctly, so that you can say
?C: scanf("%d\n"); instead of scanf("%d"); getc(c); to handle the '\n'.
?C:.
?H:#$d_scannl SCAN_NL  /* scanf("%d\n") works */
?H:.
?F:!try
?LINT:set d_scannl
: does scanf handle "\n" correctly ?
echo " "
val="$define"
?X: I really want to say "\n" instead of '\n', because I am referring
?X: to the string given as argument to scanf().
echo 'Let""""s see if scanf() handles "\\n" correctly...' >&4
$cat >try.c <<'EOCP'
int main()
{
 int i = 0, j = 0;
 scanf("%d\n%d", &i, &j);
 if (j != 3)
  exit(1);
 exit(0);
}
EOCP
if $cc $ccflags -o try try.c >/dev/null 2>&1; then
 if ./try <<'EOD'
2
3
EOD
 then
  echo "Yes, it does."
 else
  echo "No, it doesn't."
  val="$undef"
 fi
else
 echo
 "(I can't seem to compile the test program. Assuming it does.)"
fi
set d_scannl
eval $setvar
$rm -f try.* try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_scannl.U
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```
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?RCS:
?MAKE:d_lgamma_r: Inlibc
?MAKE: -pick add $@ %<
?S:d_lgamma_r:
?S: This variable conditionally defines the HAS_LGAMMA_R symbol, which
?S: indicates to the C program that the lgamma_r() routine is available
?S: for the log gamma function, without using the global signgam variable.
?S:.
?C:HAS_LGAMMA_R:
?C: This symbol, if defined, indicates that the lgamma_r routine is
?C: available to do the log gamma function without using the global
?C: signgam variable.
?C:.
?H:#$d_lgamma_r HAS_LGAMMA_R  /**/
?H:.
?LINT:set d_lgamma_r
: see if lgamma_r exists
set lgamma_r d_lgamma_r
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_lgamma_r.U
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sem.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sem: test d_semctl d_semget d_semop Setvar Findhdr osname
```

```
?MAKE: -pick add $@ %<
?S:d_sem:
?S: This variable conditionally defines the HAS_SEM symbol, which
?S: indicates that the entire sem*(2) library is present.
?S:.
?C:HAS_SEM:
?C: This symbol, if defined, indicates that the entire sem*(2) library is
?C: supported.
?C:.
?H:#$d_sem HAS_SEM  /**/
?H:.
?T:h_sem
?LINT:set d_sem
:
 see how much of the 'sem*(2)' library is present.
h_sem=true
echo " "
case "$d_semctl$d_semget$d_semop" in
*"$undef"*) h_sem=false;;
esac
case "$osname" in
freebsd)
   case "`ipcs 2>&1`" in
   "SVID messages"*"not configured"*)
 echo "Your $osname does not have the sem*(2) configured." >&4
       h_sem=false
 val="$undef"
 set semctl d_semctl
 eval $setvar
 set semget d_semget
 eval $setvar
 set semop d_semop
 eval $setvar
 ;;
   esac
   ;;
esac
: we could also check for sys/ipc.h ...
if $h_sem && $test `./findhdr sys/sem.h`; then
 echo "You have the full sem*(2) library." >&4
 val="$define"
else
 echo "You don't have the full sem*(2) library." >&4
 val="$undef"
fi
set d_sem
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sem.U
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```
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?RCS:
?MAKE:gidformat: gidsize gidsign ivsize uvsize longsize intsize shortsize \
 ivdformat uvuformat test echo
?MAKE: -pick add $@ %<
?S:gidformat:
?S: This variable contains the format string used for printing a Gid_t.
?S:.
?C:Gid_t_f:
?C: This symbol defines the format string used for printing a Gid_t.
?C:.
?H:#define Gid_t_f  $gidformat  /**/
?H:.
: Check format string for GID

echo " "
$echo "Checking the format string to be used for gids..." >&4

case "$gidsign" in
-1) if $test X"$gidsize" = X"$ivsize"; then
  gidformat="$ivdformat"
 else
  if $test X"$gidsize" = X"$longsize"; then
   gidformat="'ld'"
  else
   if $test X"$gidsize" = X"$intsize"; then
    gidformat="'d'"
   else
    if $test X"$gidsize"
 = X"$shortsize"; then
     gidformat="'hd'"
    fi
   fi
  fi
 fi
 ;;
*) if $test X"$gidsize" = X"$uvsize"; then
  gidformat="$uvuformat"
```

```
 else
  if $test X"$gidsize" = X"$longsize"; then
   gidformat="'lu'"
  else
   if $test X"$gidsize" = X"$intsize"; then
    gidformat="'u'"
   else
    if $test X"$gidsize" = X"$shortsize"; then
     gidformat="'hu'"
    fi
   fi
  fi
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/gidf.U
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```
?RCS: $Id: Mkdirp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extract.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  14:58:52  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:51:46  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which can launched to create a
?X: directory path like "mkdir -p" would do.
?X:
?MAKE:Mkdirp:
 eunicefix startsh
?MAKE: -pick add $@ %<
```

```
?F:./mkdirp
?T:name create file
: script used to emulate mkdir -p
cat >mkdirp <<EOS
$startsh
EOS
cat >>mkdirp <<'EOS'
name=$1;
create="";
while test $name; do
 if test ! -d "$name"; then
  create="$name $create"
  name=`echo $name | sed -e "s|^[^/]*$||"`
  name=`echo $name | sed -e "s|\(.*\)/.*|\1|"`
 else
  name=""
 fi
done
for file in $create; do
 mkdir $file
done
EOS
chmod +x mkdirp
$eunicefix mkdirp
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Mkdirp.U
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```
?RCS: $Id$
?RCS:
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?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: Original author Jarkko Hietaniemi <jhi@iki.fi>
?RCS: Merged into dist by Andy Dougherty  July 13, 1998
?RCS:
?MAKE:ebcdic: Compile Setvar cat rm_try run
?MAKE: -pick add $@ %<
?S:ebcdic:
```

```
?S: This variable conditionally defines EBCDIC if this
?S: system uses EBCDIC encoding.  Among other things, this
?S: means that the character ranges are not contiguous.
?S: See trnl.U
?S:.
?C:EBCDIC:
?C:     This symbol, if defined, indicates that this system uses
?C: EBCDIC
 encoding.
?C:.
?H:#$ebcdic EBCDIC   /**/
?H:.
?F:!try
?LINT:set ebcdic
: look whether system uses EBCDIC
echo " "
echo "Determining whether or not we are on an EBCDIC system..." >&4
$cat >try.c <<'EOM'
int main()
{
 if ('M'==0xd4) return 0;
 return 1;
}
EOM
val=$undef
set try
if eval $compile_ok; then
 if $run ./try; then
  echo "You seem to speak EBCDIC." >&4
  val="$define"
 else
  echo "Nope, no EBCDIC, probably ASCII or some ISO Latin. Or UTF-8." >&4
 fi
else
 echo "I'm unable to compile the test program." >&4
 echo "I'll assume ASCII or some ISO Latin. Or UTF8." >&4
fi
$rm_try
set ebcdic
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/ebcdic.U
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```
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?RCS:
?MAKE:d_telldirproto: Hasproto i_systypes i_dirent
?MAKE: -pick add $@ %<
?S:d_telldirproto:
?S: This variable conditionally defines the HAS_TELLDIR_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the telldir() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_TELLDIR_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the telldir() function.  Otherwise, it is up
?C: to the program to supply one.  A good guess
 is
?C:  extern long telldir(DIR*);
?C:.
?H:#$d_telldirproto HAS_TELLDIR_PROTO /**/
?H:.
?LINT:set d_telldirproto
: see if prototype for telldir is available
echo " "
set d_telldirproto telldir $i_systypes sys/types.h $i_dirent dirent.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_telldirproto.U
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?RCS:
?RCS: $Log: pidtype.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:31:27  ram
```

```
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:33  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:pidtype: Myread Typedef
?MAKE: -pick add $@ %<
?S:pidtype:
?S: This variable defines PIDTYPE to be something like pid_t, int,
?S: ushort, or whatever type is used to declare process ids in the kernel.
?S:.
?C:Pid_t (PIDTYPE):
?C: This symbol holds the type
 used to declare process ids in the kernel.
?C: It can be int, uint, pid_t, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Pid_t $pidtype  /* PID type */
?H:.
: see what type pids are declared as in the kernel
set pid_t pidtype int stdio.h sys/types.h
eval $typedef
dflt="$pidtype"
echo " "
rp="What type are process ids on this system declared as?"
. ./myread
pidtype="$ans"
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/pidtype.U
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?RCS:
?MAKE:d_quad quadtype uquadtype quadkind: \
 longsize intsize d_longlong longlongsize d_int64_t \
 Inhdr Setvar
?MAKE: -pick add $@ %<
?S:d_quad:
?S: This variable, if defined, tells that there's a 64-bit integer type,
?S: quadtype.
?S:.
```

```
?S:quadtype:
?S: This variable defines Quad_t to be something like long, int,
?S: long long, int64_t, or whatever type is used for 64-bit integers.
?S:.
?S:quadkind:
?S: This variable, if defined, encodes the type of a quad:
?S: 1 = int, 2 = long, 3 = long long, 4 = int64_t.
?S:.
?S:uquadtype:
?S: This variable defines Uquad_t to be something like unsigned long,
?S: unsigned int, unsigned long long, uint64_t, or whatever type is
?S: used for 64-bit integers.
?S:.
?C:HAS_QUAD:
?C: This
 symbol, if defined, tells that there's a 64-bit integer type,
?C: Quad_t, and its unsigned counterpart, Uquad_t. QUADKIND will be one
?C: of QUAD_IS_INT, QUAD_IS_LONG, QUAD_IS_LONG_LONG, QUAD_IS_INT64_T,
?C: or QUAD_IS___INT64.
?C:.
?H:#$d_quad HAS_QUAD /**/
?H:?%<:#ifdef HAS_QUAD
?H:?%<:#   define Quad_t $quadtype /**/
?H:?%<:#   define Uquad_t $uquadtype /**/
?H:?%<:#   define QUADKIND $quadkind /**/
?H:?%<:#   define QUAD_IS_INT 1
?H:?%<:#   define QUAD_IS_LONG 2
?H:?%<:#   define QUAD_IS_LONG_LONG 3
?H:?%<:#   define QUAD_IS_INT64_T 4
?H:?%<:#   define QUAD_IS___INT64 5
?H:?%<:#endif
?H:.
?LINT:set quadtype
?LINT:set uquadtype
: Check if 64bit ints have a quad type
echo " "
echo "Checking which 64-bit integer type we could use..." >&4
?X: We prefer quad types in order of int, long, long long, int64_t.

case "$intsize" in
8) val=int
  set quadtype
  eval $setvar
  val='"unsigned int"'
  set uquadtype
  eval $setvar
  quadkind=1
  ;;
```

```
*) case "$longsize" in
  8)
 val=long
     set quadtype
     eval $setvar
     val='"unsigned long"'
     set uquadtype
     eval $setvar
     quadkind=2
     ;;
  *) case "$d_longlong:$longlongsize" in
     define:8)
       val='"long long"'
       set quadtype
       eval $setvar
       val='"unsigned long long"'
       set uquadtype
       eval $setvar
       quadkind=3
       ;;
     *) case "$d_int64_t" in
        define)
          val=int64_t
          set quadtype
          eval $setvar
          val=uint64_t
          set uquadtype
          eval $setvar
          quadkind=4
          ;;
        esac
        ;;
     esac
     ;;
  esac
  ;;
esac

case "$quadtype" in
") echo "Alas, no 64-bit integer types in sight." >&4
 d_quad="$undef"
 ;;
*) echo "We could use '$quadtype' for 64-bit integers." >&4
 d_quad="$define"
 ;;
esac
```

Found in path(s):

* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/a_dvisory/quadtype.U
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?RCS:
?MAKE:d_int64_t: Inhdr cat rm_try Setvar Compile i_inttypes
?MAKE: -pick add $@ %<
?S:d_int64_t:
?S: This symbol will be defined if the C compiler supports int64_t.
?S:.
?C:HAS_INT64_T:
?C: This symbol will defined if the C compiler supports int64_t.
?C: Usually the <inttypes.h> needs to be included, but sometimes
?C: <sys/types.h> is enough.
?C:.
?H:#$d_int64_t	HAS_INT64_T		/**/
?H:.
?LINT:set d_int64_t
: check for int64_t
echo " "
echo "Checking to see if you have int64_t..." >&4
$cat >try.c <<EOCP
#include
 <sys/types.h>
#$i_inttypes I_INTTYPES
#ifdef I_INTTYPES
#include <inttypes.h>
#endif
int main() { int64_t x = 7; }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have int64_t."
else
 val="$undef"
 echo "You do not have int64_t."
fi
$rm_try
```

```
set d_int64_t
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_int64_t.U
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```
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?RCS:
?RCS: $Log: sitescript.U,v $
?RCS:
?MAKE:sitescript sitescriptexp installsitescript : Getfile Oldconfig test \
 Setprefixvar sitebin siteprefix
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitescript=''
?S:sitescript:
?S: This variable holds the name of the directory in which the user wants
?S: to put add-on publicly executable files for the package in question.  It
?S: is most often a local directory such as /usr/local/bin. Programs using
?S: this variable must be prepared to deal with ~name substitution.
?S: The standard
 distribution will put nothing in this directory.
?S: After perl has been installed, users may install their own local
?S: scripts in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitescriptexp=''
?S:sitescriptexp:
?S: This is the same as the sitescript variable, but is filename expanded at
?S: configuration time, for use in your makefiles.
?S:.
?D:installsitescript=''
?S:installsitescript:
?S: This variable is usually the same as sitescriptexp, unless you are on
?S: a system running AFS, in which case they may differ slightly. You
?S: should always use this variable within your makefiles for portability.
?S:.
```

```
?LINT:change prefixvar
?LINT:set installsitescript
?LINT:set sitescript
?LINT:set sitescriptexp
: determine where add-on public executable scripts go
case "$sitescript" in
") dflt=$siteprefix/script
 $test -d $dflt || dflt=$sitebin ;;
*)  dflt="$sitescript" ;;
esac
fn=d~+
rp='Pathname where add-on public executable scripts
 should be installed?'
. ./getfile
prefixvar=sitescript
. ./setprefixvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/sitescript.U
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?RCS:
?MAKE:run to from targetarch usecrosscompile: src awk cat grep test rm \
 echo sed mkdir cp touch chmod
?MAKE: -pick add $@ %<
?Y:TOP
?S:usecrosscompile:
?S: This variable conditionally defines the USE_CROSS_COMPILE symbol,
?S: and indicates that our package has been cross-compiled.
?S:.
?S:run:
?S: This variable contains the command used by Configure
?S: to copy and execute a cross-compiled executable in the
?S: target host.  Useful and available only during
 the build.
?S: Empty string '' if not cross-compiling.
```

```
?S:.
?S:from:
?S: This variable contains the command used by Configure
?S: to copy files from the target host.  Useful and available
?S: only during the build.
?S: The string ':' if not cross-compiling.
?S:.
?S:to:
?S: This variable contains the command used by Configure
?S: to copy to from the target host.  Useful and available
?S: only during the build.
?S: The string ':' if not cross-compiling.
?S:.
?S:targetarch:
?S: If cross-compiling, this variable contains the target architecture.
?S: If not, this will be empty.
?S:.
?C:USE_CROSS_COMPILE:
?C: This symbol, if defined, indicates that the package is being
?C: cross-compiled.
?C:.
?C:CROSS_TARGET_ARCH:
?C: This symbol, if defined, indicates the target architecture
?C: the package has been cross-compiled to.
?C: Undefined if not a cross-compile.
?C:.
?H:?usecrosscompile:#ifndef USE_CROSS_COMPILE
?H:?usecrosscompile:#$usecrosscompile USE_CROSS_COMPILE /**/
?H:?usecrosscompile:#define
 CROSS_TARGET_ARCH "$targetarch" /**/
?H:?usecrosscompile:#endif
?H:.
?T:croak pwd exe f q i j cwd
?LINT:extern usecrosscompile
?LINT:extern cc
?LINT:extern usrinc
?LINT:change usrinc
?LINT:change ar
?LINT:change nm
?LINT:change ranlib
?LINT:extern targethost
?LINT:extern targetdir
?LINT:change targetdir
?LINT:extern targetuser
?LINT:change targetuser
?LINT:extern targetrun
?LINT:extern targetfrom
?LINT:extern targetto
```

```
?LINT:extern targetmkdir
?LINT:change targetrun
?LINT:change targetfrom
?LINT:change targetto
?LINT:change targetmkdir
?LINT:extern incpth
?LINT:extern libpth
?LINT:change incpth
?LINT:change libpth
?LINT:extern locincpth
?LINT:extern loclibpth
?LINT:change locincpth
?LINT:change loclibpth
?LINT:extern TMPDIR
: setup for possible cross-compilation
run=''
to=:
from=:
usecrosscompile='undef'
targetarch=''
case "$usecrosscompile" in
$define|true|[yY]*)
@if { test -d ../Cross }
?X:
?X: Cross-compilation is enabled when there is a 'Cross' directory found
?X: at the root
 of the package.  This directory must contain the following
?X: entries for defining the cross-compilation process:
?X:
?X: FIXME FIXME
?X: WE MUST DISTINGUISH BETWEEN LOCAL cross-compiling AND REMOTE ONE
?X: ACTUALLY, REMOTE COMPILATION SHOULD BE CONFIGURED INTERACTIVELY
?X: IT WILL COPY ALL THE FILES FROM THE MANIFEST DOWN TO THE REMOTE DIR...
?X: (and copy things like 'mkdep', etc...)
?X:
 $echo "Cross-compiling..."
 croak=''
 case "$cc" in
 *-*-gcc)
?X: A cross-compiling gcc, probably.
    targetarch=`$echo $cc|$sed 's/-gcc$//'`
    ar=$targetarch-ar
?X: leave out ld, choosing it is more complex
    nm=$targetarch-nm
    ranlib=$targetarch-ranlib
    $echo 'extern int foo;' > try.c
    set X `$cc -v -E try.c 2>&1 | \
   $awk '/^#include </,/^End of search /'|$grep '/include'`
```

```
    shift
 if $test $# -gt 0; then
        incpth="$incpth $*"
  incpth="`$echo $incpth|$sed 's/^ //'`"
  echo "Guessing incpth '$incpth'." >&4
  for i in $*; do
   j="`$echo $i|$sed 's,/include$,/lib,'`"
   if
$test -d $j; then
    libpth="$libpth $j"
   fi
  done
  libpth="`$echo $libpth|$sed 's/^ //'`"
  echo "Guessing libpth '$libpth'." >&4
    fi
    $rm -f try.c
    ;;
esac
case "$targetarch" in
") echo "Targetarch not defined." >&4; croak=y ;;
*)  echo "Using targetarch $targetarch." >&4 ;;
esac
case "$incpth" in
") echo "Incpth not defined." >&4; croak=y ;;
*)  echo "Using incpth '$incpth'." >&4 ;;
esac
case "$libpth" in
") echo "Libpth not defined." >&4; croak=y ;;
*)  echo "Using libpth '$libpth'." >&4 ;;
esac
case "$usrinc" in
")
 for i in $incpth; do
  if $test -f $i/errno.h -a -f $i/stdio.h -a -f $i/time.h; then
   usrinc=$i
   echo "Guessing usrinc $usrinc." >&4
   break
  fi
    done
    case "$usrinc" in
    ") echo "Usrinc not defined." >&4; croak=y ;;
    esac
 ;;
*)  echo "Using usrinc $usrinc." >&4 ;;
esac
case "$targethost" in
") echo "Targethost not defined." >&4; croak=y ;;
*)  echo "Using targethost $targethost."
```

```
>&4
esac
locincpth=' '
loclibpth=' '
case "$croak" in
y) echo "Cannot continue, aborting." >&4; exit 1 ;;
esac
case "$src" in
/*) run=$src/Cross/run
    targetmkdir=$src/Cross/mkdir
    to=$src/Cross/to
    from=$src/Cross/from
    ;;
*)  pwd=`$test -f ../Configure & cd ..; pwd`
    run=$pwd/Cross/run
    targetmkdir=$pwd/Cross/mkdir
    to=$pwd/Cross/to
    from=$pwd/Cross/from
    ;;
esac
case "$targetrun" in
") targetrun=ssh ;;
esac
case "$targetto" in
") targetto=scp ;;
esac
case "$targetfrom" in
") targetfrom=scp ;;
esac
run=$run-$targetrun
to=$to-$targetto
from=$from-$targetfrom
case "$targetdir" in
")
 targetdir="${TMPDIR:-/tmp}"
 echo "Guessing targetdir $targetdir." >&4
 ;;
esac
case "$targetuser" in
")
 targetuser=root
 echo "Guessing targetuser $targetuser." >&4
 ;;
esac
case "$targetfrom" in
scp) q=-q ;;
*) q=" ;;
esac
```

```
 case "$targetrun" in
 ssh|rsh)
  $cat >$run <<EOF
#!/bin/sh
case "\$1" in
-cwd)
 shift
 cwd=\$1
  shift
 ;;
esac
case "\$cwd" in
") cwd=$targetdir ;;
esac
exe=\$1
shift
if $test ! -f \$exe.xok; then
 $to \$exe
 $touch \$exe.xok
fi
$targetrun -l $targetuser $targethost "cd \$cwd && ./\$exe \$@"
EOF
  ;;
 *)  echo "Unknown targetrun '$targetrun'" >&4
     exit 1
     ;;
 esac
 case "$targetmkdir" in
 */Cross/mkdir)
  $cat >$targetmkdir <<EOF
#!/bin/sh
$targetrun -l $targetuser $targethost "mkdir -p \$@"
EOF
     $chmod a+rx $targetmkdir
     ;;
 *)  echo "Unknown targetmkdir '$targetmkdir'" >&4
     exit 1
     ;;
 esac
 case "$targetto" in
 scp|rcp)
     $cat >$to <<EOF
#!/bin/sh
for f in \$@
do
 case "\$f" in
 /*)
   $targetmkdir \`dirname \$f\`
```

```
   $targetto $q \$f $targetuser@$targethost:\$f            || exit 1
   ;;
 *)
   $targetmkdir $targetdir/\`dirname \$f\`
   $targetto $q \$f $targetuser@$targethost:$targetdir/\$f || exit 1
   ;;
 esac
done
exit 0
EOF
     ;;
 cp) $cat >$to <<EOF
#!/bin/sh
for f in \$@
do
 case "\$f" in
 /*)
   $mkdir -p $targetdir/\`dirname
 \$f\`
   $cp \$f $targetdir/\$f || exit 1
   ;;
 *)
   $targetmkdir $targetdir/\`dirname \$f\`
   $cp \$f $targetdir/\$f || exit 1
   ;;
 esac
done
exit 0
EOF
     ;;
 *)  echo "Unknown targetto '$targetto'" >&4
     exit 1
     ;;
 esac
 case "$targetfrom" in
 scp|rcp)
   $cat >$from <<EOF
#!/bin/sh
for f in \$@
do
 $rm -f \$f
 $targetfrom $q $targetuser@$targethost:$targetdir/\$f . || exit 1
done
exit 0
EOF
     ;;
 cp) $cat >$from <<EOF
#!/bin/sh
```

```
for f in \$@
do
 $rm -f \$f
 cp $targetdir/\$f . || exit 1
done
exit 0
EOF
    ;;
 *)  echo "Unknown targetfrom '$targetfrom'" >&4
    exit 1
    ;;
 esac
 if $test ! -f $run; then
    echo "Target 'run' script '$run' not found." >&4
 else
    $chmod a+rx $run
 fi
 if $test ! -f $to; then
    echo "Target 'to' script '$to' not found." >&4
 else
    $chmod a+rx $to
 fi
 if $test ! -f $from; then
    echo "Target 'from' script '$from' not found." >&4
 else
    $chmod a+rx $from
 fi
 if $test ! -f $run -o ! -f $to -o !
 -f $from; then
    exit 1
 fi
 $cat >&4 <<EOF
Using '$run' for remote execution,
and '$from' and '$to'
for remote file transfer.
EOF
@else
 echo "Cross-compilation is not supported for this package." >&4
 exit 1
@end
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Cross.U
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_termio.U,v $
?RCS: Revision 3.0.1.4  1994/10/29  16:20:54  ram
?RCS: patch36: call ./usg and ./Cppsym explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.3  1994/08/29  16:26:38  ram
?RCS: patch32: don't include all three I_* symbols in config.h
?RCS: patch32: (had forgotten to undo this part last time)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:25:03  ram
?RCS: patch27: undone ADO's fix in previous patch since it was useless
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:05:23
 ram
?RCS: patch23: now include all three defines in config.h (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_termio i_sgtty i_termios: test Inlibc Cppsym Guess Setvar Findhdr Warn
?MAKE: -pick add $@ %<
?S:i_termio:
?S: This variable conditionally defines the I_TERMIO symbol, which
?S: indicates to the C program that it should include <termio.h> rather
?S: than <sgtty.h>.
?S:.
?S:i_termios:
?S: This variable conditionally defines the I_TERMIOS symbol, which
?S: indicates to the C program that the POSIX <termios.h> file is
?S: to be included.
?S:.
?S:i_sgtty:
?S: This variable conditionally defines the I_SGTTY symbol, which
?S: indicates to the C program that it should include <sgtty.h> rather
?S: than <termio.h>.
?S:.
?C:I_TERMIO:
?C: This symbol, if defined, indicates that the program should include
?C: <termio.h> rather than <sgtty.h>.  There are also differences in
```

```
?C: the ioctl() calls that depend on the value of
 this symbol.
?C:.
?C:I_TERMIOS:
?C: This symbol, if defined, indicates that the program should include
?C: the POSIX termios.h rather than sgtty.h or termio.h.
?C: There are also differences in the ioctl() calls that depend on the
?C: value of this symbol.
?C:.
?C:I_SGTTY:
?C: This symbol, if defined, indicates that the program should include
?C: <sgtty.h> rather than <termio.h>.  There are also differences in
?C: the ioctl() calls that depend on the value of this symbol.
?C:.
?H:#$i_termio I_TERMIO  /**/
?H:#$i_termios I_TERMIOS  /**/
?H:#$i_sgtty I_SGTTY  /**/
?H:.
?T:val2 val3
?LINT:set i_termio i_sgtty i_termios
: see if this is a termio system
val="$undef"
val2="$undef"
val3="$undef"
?X: Prefer POSIX-approved termios.h over all else
if $test `./findhdr termios.h`; then
 set tcsetattr i_termios
 eval $inlibc
 val3="$i_termios"
fi
echo " "
case "$val3" in
"$define") echo "You have POSIX termios.h... good!" >&4;;
*) if ./Cppsym pyr; then
  case "`/bin/universe`" in
  ucb) if $test `./findhdr
 sgtty.h`; then
    val2="$define"
    echo "<sgtty.h> found." >&4
   else
    echo "System is pyramid with BSD universe."
    ./warn "<sgtty.h> not found--you could have problems."
   fi;;
  *) if $test `./findhdr termio.h`; then
    val="$define"
    echo "<termio.h> found." >&4
   else
    echo "System is pyramid with USG universe."
```

```
    ./warn "<termio.h> not found--you could have problems."
   fi;;
  esac
?X: Start with USG to avoid problems if both usg/bsd was guessed
 elif ./usg; then
  if $test `./findhdr termio.h`; then
   echo "<termio.h> found." >&4
   val="$define"
  elif $test `./findhdr sgtty.h`; then
   echo "<sgtty.h> found." >&4
   val2="$define"
  else
   ./warn "Neither <termio.h> nor <sgtty.h> found--cross fingers!"
  fi
 else
  if $test `./findhdr sgtty.h`; then
   echo "<sgtty.h> found." >&4
   val2="$define"
  elif $test `./findhdr termio.h`; then
   echo "<termio.h> found." >&4
   val="$define"
  else
   ./warn "Neither <sgtty.h> nor <termio.h> found--cross
 fingers!"
  fi
 fi;;
esac
set i_termio; eval $setvar
val=$val2; set i_sgtty; eval $setvar
val=$val3; set i_termios; eval $setvar

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
5.36.0/dist/U/i_termio.U
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?RCS:
?MAKE:d_memmem: Hasproto Inlibc Setvar d_gnulibc
?MAKE: -pick add $@ %<
?S:d_memmem:
?S: This variable conditionally defines the HAS_MEMMEM symbol, which
?S: indicates to the C program that the memmem() routine is available
?S: to return a pointer to the start of the first occurrence of a
?S: substring in a memory area (or NULL if not found).
?S:.
?C:HAS_MEMMEM:
```

```
?C: This symbol, if defined, indicates that the memmem routine is
?C: available to return a pointer to the start of the first occurrence
?C: of a substring in a memory area (or NULL if not found).
?C: In glibc, memmem is a GNU extension.  The function is visible in
?C: libc, but the prototype is only visible if _GNU_SOURCE is #defined.
?C: Thus we only define this if both the prototype and symbol are found.
?C:.
?H:#$d_memmem
 HAS_MEMMEM  /**/
?H:.
?T:d_memmem_proto xx1 xx2 xx3 xx4
?LINT:set d_memmem
: see if memmem exists
: We need both a prototype in string.h and the symbol in libc.
echo " "
d_memmem_proto=''
xx1="#$d_gnulibc HAS_GNULIBC"
xx2='#if defined(HAS_GNULIBC) && !defined(_GNU_SOURCE)'
xx3='#   define _GNU_SOURCE'
xx4='#endif'
set d_memmem_proto memmem literal "$xx1" literal "$xx2" literal "$xx3" literal "$xx4" define string.h
eval $hasproto
case "$d_memmem_proto" in
   define) # see if memmem exists
 set memmem d_memmem
 eval $inlibc
 ;;
   *)  val=$undef
 set d_memmem
 eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_memmem.U
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```
?RCS: $Id: i_ustat.U,v $
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?RCS:
?MAKE:i_ustat: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_ustat:
```

```
?S: This variable conditionally defines the I_USTAT symbol, and indicates
?S: whether a C program should include <ustat.h>.
?S:.
?C:I_USTAT:
?C: This symbol, if defined, indicates that <ustat.h> exists and
?C: should be included.
?C:.
?H:#$i_ustat I_USTAT  /**/
?H:.
?LINT:set i_ustat
: see if this is a ustat.h system
set ustat.h i_ustat
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_ustat.U
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```
?RCS: $Id: Config_h.U 1 2006-08-24 12:32:52Z rmanfredi $
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?RCS:
?RCS: $Log: Config_h.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  14:57:43  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:10:49  ram
?RCS: patch59: commented the purpose of the #un-def directive
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:25:39  ram
?RCS: patch49: typo fixes in leading config.h comment (WED)
?RCS:
?RCS: Revision 3.0.1.2  1993/08/24  12:13:20  ram
?RCS: patch3: added TOP as a local shell temporary variable
?RCS:
?RCS:
 Revision 3.0.1.1  1993/08/19  06:42:20  ram
?RCS: patch1: leading config.sh searching was not aborting properly
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:47  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?X:
?X: This file ends up producing the config_h.SH script, which is run to produce
?X: the config.h file.  The file ./.Config_h below contains all the ?H: lines
?X: extracted out of all the units.  Metaconfig itself adds the !GROK!THIS!.
?X: Note that this code isn't included into Configure, but must be shipped with.
?X:
?X: For those who wish to know why the file is config_h.SH instead of the more
?X: natural config.h.SH, well... it is to support systems like MS-DOG. Only one
?X: 'dot' is allowed within the file name, as it is part of the "extension" of
?X: the file. MS-DOG will not let you have two 'dots' because that would mean
?X: two "extensions".
?X:
?MAKE:Config_h: Id End Config_sh Obsol_h myuname cf_time cf_by package src
?MAKE: -pick c_h_weed $@ %<
?MAKE: -pick
 c_h_weed $@ ./Config_h
?MAKE: -pick c_h_weed $@ ./Obsol_h
?T:PERL_CONFIG_SH TOP
?LINT:unclosed !GROK!THIS!
?LINT:extern CONFIG_H CONFIG_SH
?LINT:change CONFIG_H CONFIG_SH
?X:?LINT:nocomment
: Set up for generating config_h.SH
case "$CONFIG_SH" in
") CONFIG_SH=config.sh;;
esac
case "$CONFIG_H" in
") CONFIG_H=config.h;;
esac
case $PERL_CONFIG_SH in
")
 if test -f $CONFIG_SH; then TOP=.;
 elif test -f ../$CONFIG_SH; then TOP=..;
 elif test -f ../../$CONFIG_SH; then TOP=../..;
 elif test -f ../../../$CONFIG_SH; then TOP=../../..;
 elif test -f ../../../../$CONFIG_SH; then TOP=../../../..;
 else
  echo "Can't find $CONFIG_SH."; exit 1
 fi
 . $TOP/$CONFIG_SH
 ;;
esac
?X: Make sure we are in the directory where the .SH file is located.
case "$0" in
*/*) cd `expr X$0 : 'X\(.*\)/'` ;;
esac
echo "Extracting $CONFIG_H (with variable substitutions)"
```

```
?X:
?X: Since we unconditionally translate leading #undef into /*#define, we're
?X: stuck when we really want to have a #undef in $CONFIG_H.
 That's why there
?X: is provision here for #un-def, which is translated back into #undef after
?X: all original #undef have been processed.
?X:
?X: Previously, we changed all
?X:  #undef FOO /**/
?X: into
?X:  /*#define FOO /**/
?X: The xlc compiler (available on IBM's AIX) complains that this is
?X: an illegal attempt to write a nested comment, and warns against it.
?X: There's apparently no way to shut the compiler up, either.
?X: This sed command from Hallvard B Furuseth <h.b.furuseth@usit.uio.no>
?X: changes it to
?X:  /*#define FOO / **/
sed <<!GROK!THIS! >$CONFIG_H -e 's!^#undef\(.*/\)\*!/\*#define\1 \*!' -e 's!^#un-def!#undef!'
/* This file was produced by running the config_h.SH script, which
* gets its values from $CONFIG_SH, which is generally produced by
* running Configure.
*
* Feel free to modify any of this as the need arises.  Note, however,
* that running config_h.SH again will wipe out any changes you've made.
* For a more permanent change edit $CONFIG_SH and
 rerun config_h.SH.
*/

/* Package name      : $package
* Source directory  : $src
* Configuration time: $cf_time
* Configured by     : $cf_by
* Target system     : $myuname
*/

#ifndef _config_h_
#define _config_h_
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Config_h.U
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?RCS:
?MAKE:d_nanosleep: Inlibc
?MAKE: -pick add $@ %<
?S:d_nanosleep:
?S: This variable conditionally defines HAS_NANOSLEEP
?S: if nanosleep() is available to sleep with 1E-9 sec accuracy.
?S:.
?C:HAS_NANOSLEEP:
?C: This symbol, if defined, indicates that the nanosleep
?C: system call is available to sleep with 1E-9 sec accuracy.
?C:.
?H:#$d_nanosleep HAS_NANOSLEEP  /**/
?H:.
?LINT:set d_nanosleep
: see if nanosleep exists
set nanosleep d_nanosleep
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_nanosleep.U
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```
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?RCS:
?MAKE:d_ualarm: Inlibc
?MAKE: -pick add $@ %<
?S:d_ualarm:
?S: This variable conditionally defines the HAS_UALARM symbol, which
?S: indicates to the C program that the ualarm() routine is available.
?S:.
?C:HAS_UALARM:
?C: This symbol, if defined, indicates that the ualarm routine is
?C: available to do alarms with microsecond granularity.
?C:.
?H:#$d_ualarm HAS_UALARM  /**/
?H:.
?LINT:set d_ualarm
: see if ualarm exists
```

```
set ualarm d_ualarm
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_ualarm.U
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```
?RCS: $Id: d_pwritev.U 1 2006-08-24 12:32:52Z rmanfredi $
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?RCS:
?RCS: $Log: d_pwritev.U,v $
?RCS:
?MAKE:d_pwritev: Inlibc
?MAKE: -pick add $@ %<
?S:d_pwritev:
?S: This variable conditionally defines the HAS_PWRITEV symbol, which
?S: indicates to the C program that the pwritev() routine is available.
?S:.
?C:HAS_PWRITEV :
?C: This symbol, if defined, indicates that the pwritev routine is
?C: available to perform vectored writes on a file descriptor at a
?C: given offset.
?C:.
?H:#$d_pwritev HAS_PWRITEV  /**/
?H:.
?LINT:set
 d_pwritev
: see if pwritev exists
set pwritev d_pwritev
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_pwritev.U
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```
?RCS: $Id: d_preadv.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

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?RCS:
?RCS: $Log: d_preadv.U,v $
?RCS:
?MAKE:d_preadv: Inlibc
?MAKE: -pick add $@ %<
?S:d_preadv:
?S: This variable conditionally defines the HAS_PREADV symbol, which
?S: indicates to the C program that the preadv() routine is available.
?S:.
?C:HAS_PREADV :
?C: This symbol, if defined, indicates that the preadv routine is
?C: available to perform vectored reads on a file descriptor at a
?C: given offset.
?C:.
?H:#$d_preadv HAS_PREADV  /**/
?H:.
?LINT:set d_preadv
:
 see if preadv exists
set preadv d_preadv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_preadv.U
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS:
?MAKE:d_dir_dd_fd: Compile cat rm_try Setvar i_dirent i_stdlib
?MAKE: -pick add $@ %<
?S:d_dir_dd_fd (d_dir_dd_fd.U):
?S: This variable conditionally defines the HAS_DIR_DD_FD symbol, which
?S: indicates that the DIR directory stream type contains a member
?S: variable called dd_fd.
?S:.
```

```
?C:HAS_DIR_DD_FD:
?C: This symbol, if defined, indicates that the the DIR* dirstream
?C: structure contains a member variable named dd_fd.
?C:.
?H:#$d_dir_dd_fd HAS_DIR_DD_FD  /**/
?H:.
?LINT:set d_dir_dd_fd
: Look for DIR.dd_fd
case "$i_dirent"
 in
"$define")
   echo "Checking to see if DIR has a dd_fd member variable" >&4
   $cat >try.c <<EOCP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <dirent.h>

int main() {
   DIR dir;
   dir.dd_fd = 1;
   return 0;
}
EOCP
   val=$undef
   set try
   if eval $compile; then
       echo "Yes, it does."
       val="$define"
   else
       echo "No, it does not."
       val="$undef"
   fi
   ;;
*)
   echo "You don't have a <dirent.h>, so not checking for dd_fd." >&4
   val="$undef"
   ;;
esac
set d_dir_dd_fd
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_dir_dd_fd.U

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```
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?RCS:
?MAKE:default_inc_excludes_dot: Myread cat
?MAKE: -pick add $@ %<
?S:default_inc_excludes_dot:
?S: When defined, remove the legacy '.' from @INC
?S:.
?C:DEFAULT_INC_EXCLUDES_DOT:
?C: This symbol, if defined, removes the legacy default behavior of
?C: including '.' at the end of @INC.
?C:.
?H:#$default_inc_excludes_dot DEFAULT_INC_EXCLUDES_DOT /**/
?H:.
: Include . in @INC
$cat <<EOM

Historically Perl has provided a final fallback of the current working
directory '.' when searching for a library. This, however, can lead to
problems when a Perl program which loads optional modules is called from
a shared directory. This can lead to executing unexpected code.

EOM

# When changing to exclude by
 default:
case "$default_inc_excludes_dot" in
   $undef|false|[nN]*) dflt="n" ;;
   *)                  dflt="y" ;;
esac
# To turn exclude off by default:
#case "$default_inc_excludes_dot" in
#    $define|true|[yY]*) dflt="y" ;;
#    *)                  dflt="n" ;;
#esac

rp='Exclude '.' from @INC by default? '
. ./myread
case "$ans" in
   [nN]|undef) default_inc_excludes_dot="$undef"  ;;
   *)          default_inc_excludes_dot="$define" ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/defaultincdot.U
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```
?RCS: $Id: d_chsize.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_chsize.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_chsize: Inlibc
?MAKE: -pick add $@ %<
?S:d_chsize:
?S: This variable conditionally defines the CHSIZE symbol, which
?S: indicates to the C program that the chsize() routine is available
?S: to truncate files.  You might need a -lx to get this routine.
?S:.
?C:HAS_CHSIZE (CHSIZE):
?C: This symbol, if defined, indicates that the chsize
 routine is available
?C: to truncate files.  You might need a -lx to get this routine.
?C:.
?H:#$d_chsize HAS_CHSIZE  /**/
?H:.
?LINT:set d_chsize
: see if chsize exists
set chsize d_chsize
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_chsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_localeconv_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_localeconv_l:
?S: This variable conditionally defines the HAS_LOCALECONV_L symbol, which
?S: indicates to the C program that the localeconv_l() routine is available.
?S:.
?C:HAS_LOCALECONV_L:
?C: This symbol, if defined, indicates that the localeconv_l routine is
?C: available to query certain information about a locale.
?C:.
?H:#$d_localeconv_l HAS_LOCALECONV_L  /**/
?H:.
?LINT:set d_localeconv_l
: see if localeconv_l exists
set localeconv_l d_localeconv_l
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_localeconv_l.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_socket.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:46:00  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:08:04  ram
?RCS: patch16: can now safely declare private nm_extract in dependencies
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_socket d_oldsock d_sockpair socketlib sockethdr: contains libc \
 echo n c nm_opt nm_extract Inlibc Csym _a
?MAKE: -pick add $@ %<
```

```
?S:d_socket:
?S: This
 variable conditionally defines HAS_SOCKET, which indicates
?S: that the BSD socket interface is supported.
?S:.
?S:d_sockpair:
?S: This variable conditionally defines the HAS_SOCKETPAIR symbol, which
?S: indicates that the BSD socketpair() is supported.
?S:.
?S:d_oldsock:
?S: This variable conditionally defines the OLDSOCKET symbol, which
?S: indicates that the BSD socket interface is based on 4.1c and not 4.2.
?S:.
?S:socketlib:
?S: This variable has the names of any libraries needed for socket support.
?S:.
?S:sockethdr:
?S: This variable has any cpp -I flags needed for socket support.
?S:.
?C:HAS_SOCKET (SOCKET):
?C: This symbol, if defined, indicates that the BSD socket interface is
?C: supported.
?C:.
?C:HAS_SOCKETPAIR (SOCKETPAIR):
?C: This symbol, if defined, indicates that the BSD socketpair() call is
?C: supported.
?C:.
?C:USE_OLDSOCKET (OLDSOCKET):
?C: This symbol, if defined, indicates that the 4.1c BSD socket interface
?C: is supported instead of the 4.2/4.3 BSD
 socket interface. For instance,
?C: there is no setsockopt() call.
?C:.
?H:#$d_socket HAS_SOCKET  /**/
?H:#$d_sockpair HAS_SOCKETPAIR /**/
?H:#$d_oldsock USE_OLDSOCKET /**/
?H:.
?T:val
?LINT:use libc
?LINT:set d_sockpair
: see whether socket exists
socketlib=''
sockethdr=''
echo " "
$echo $n "Hmm... $c" >&4
if set socket val -f d_socket; eval $csym; $val; then
 echo "Looks like you have Berkeley networking support." >&4
 d_socket="$define"
```

```
?X: now check for advanced features
 if set setsockopt val -f; eval $csym; $val; then
  d_oldsock="$undef"
 else
  echo "...but it uses the old 4.1c interface, rather than 4.2" >&4
  d_oldsock="$define"
 fi
else
?X: HP-UX, for one, puts all the socket stuff in socklib.o. Note that if we
?X: come here on HP-UX, then we must have used nm to get symbols, or we really
?X: don't have sockets anyway...
 if $contains socklib libc.list >/dev/null 2>&1; then
  echo "Looks like you have Berkeley networking support." >&4
  d_socket="$define"
  : we will have
 to assume that it supports the 4.2 BSD interface
  d_oldsock="$undef"
 else
  echo "You don't have Berkeley networking in libc$_a..." >&4
?X: look for an optional networking library
  if test -f /usr/lib/libnet$_a; then
?X: space between two  '(' needed for ksh
   ( (nm $nm_opt /usr/lib/libnet$_a | eval $nm_extract) ||  \
   ar t /usr/lib/libnet$_a) 2>/dev/null >> libc.list
   if $contains socket libc.list >/dev/null 2>&1; then
   echo "...but the Wollongong group seems to have hacked it in." >&4
    socketlib="-lnet"
    sockethdr="-I/usr/netinclude"
    d_socket="$define"
?X: now check for advanced features
    if $contains setsockopt libc.list >/dev/null 2>&1; then
     d_oldsock="$undef"
    else
     echo "...using the old 4.1c interface, rather than 4.2" >&4
     d_oldsock="$define"
    fi
   else
    echo "or even in libnet$_a, which is peculiar." >&4
    d_socket="$undef"
    d_oldsock="$undef"
   fi
  else
   echo "or anywhere else I see." >&4
   d_socket="$undef"
   d_oldsock="$undef"
  fi
 fi
fi
```

```
@if
 HAS_SOCKETPAIR || d_sockpair
: see if socketpair exists
set socketpair d_sockpair
eval $inlibc

@end
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_socket.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: MailAuthor.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: MailAuthor.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  15:04:41  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.4  1994/08/29  16:05:09  ram
?RCS: patch32: avoid message sending if they said no previously
?RCS:
?RCS: Revision 3.0.1.3  1993/10/16  13:47:30  ram
?RCS: patch12: now makes sure user-specified address is in Internet format
?RCS:
?RCS: Revision
 3.0.1.2  1993/09/13  15:48:49  ram
?RCS: patch10: reverted to original intent by the Author himself
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:38:38  ram
?RCS: patch7: now prompts user for its e-mail address
?RCS: patch7: no longer silent when mail has been sent
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:06  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?RCS:
```

```
?X:
?X: This unit asks the user to please send a message to the author.
?X: To force inclusion of this unit, you must add it's name to the
?X: dependancies on the MAKE line in your private copy of End.U.
?X: This allows a smart mailagent program to automatically let users know
?X: when their package is out of date, and to allow users to be notified of
?X: any future patches.
?X:
?MAKE:MailAuthor mailpatches notifypatches usermail: test cat mailer \
 package Myread patchlevel baserev rm rsrc Oldconfig Configdir
?MAKE: -pick wipe $@ %<
?S:mailpatches:
?S: Indicates whether the user would like future patches to be mailed
?S: directly
 to them.
?S:.
?S:notifypatches:
?S: Indicates whether the user would like notification of future patches
?S: mailed to them.
?S:.
?S:usermail:
?S: This variable is used internally by Configure to keep track of the
?S: user e-mail address, where notifications or patches should be sent.
?S: A '-' value means the return address will be extracted by parsing
?S: the mail headers.
?S:.
?T:opt mailpatches notifypatches atsh status
: notify author that his package is used
if $test -f ../.config/mailauthor &&
 cmp $rsrc/patchlevel.h ../.config/mailauthor >/dev/null 2>&1
then
 status="say that you're using $package";
 case "$mailpatches" in
 true) status='have patches mailed to you as they are issued';;
 esac
 case "$notifypatches" in
 true) status='be notified when new patches are issued';;
 esac
 $cat <<EOM

You have already sent the author of $package (<MAINTLOC>) mail to
$status. If you wish, you may modify
your previous request by sending a new mail with different options.

EOM
 rp='Should
 I send a status update to <MAINTLOC>?'
 dflt=n
```

```
else
 $cat <<EOM

If you are able to send mail to the Internet, the author of $package would
really appreciate you letting me send off a quick note, just to say that you've
tried it. The author is more likely to spend time maintaining $package if it's
known that many people are using it, and you can even ask to get sent new
patches automagically this way if you wish. To protect your privacy, all I'll
say in the mail is the version of $package that you're using.

EOM
 rp='Should I send mail to <MAINTLOC>?'
 dflt=y
?X: Ensure default is 'n' if question has been asked already, in case they
?X: run Configure -d next time and answered 'n' the first time. Therefore,
?X: an empty nomail will be created later on even if no mail is sent.
 $test -f ../.config/nomail && dflt=n
fi
. ./myread
case "$ans" in
[yY]*)
 echo " "
 echo "Great! Your cooperation is really appreciated."
 $cat <<EOM

Some braindead sites do not set a proper return
 address in the From: header of
their outgoing mail, making it impossible to reply to mail they generate.
If your site is broken in this way, write to your system administrator and get
it fixed!!! In the mean time, you can manually specify the Internet e-mail
address by which the author can get back to you, should there be a need to do
so. If manually specified, it should be something like "user@domain.top".
If your mail system generates addresses correctly, specify "none".

EOM
 case "$usermail" in
 '-'|'') dflt=none;;
 *) dflt="$usermail";;
 esac
 rp='Manually specify a return address to use:'
 . ./myread
 case "$ans" in
 none|*@*.*)
  case "$ans" in
  none) usermail='-';;
  *) usermail="$ans";;
  esac
  ;;
```

```
 *)
  echo "(Address does not look like an Internet one -- ignoring it.)"
?X:
?X: If we can't trust their mailer or their return address, it's highly
?X: suggested that they only register and don't ask to get anything from
?X: the author, since it's likely to bounce in null-land --
 RAM.
?X:
  usermail='-'
  mailpatches=false
  notifypatches=false
  ;;
 esac
 echo " "
 opt=''
 rp='Would you like to have new patches automatically mailed to you?'
 case "$mailpatches" in
 true) dflt=y;;
 *) dflt=n;;
 esac
 . ./myread
 case "$ans" in
 [yY]*) opt=' mailpatches'; mailpatches=true;;
 *)
  mailpatches=false
  echo " "
  rp='Ok, would you like to simply be notified of new patches?'
  case "$notifypatches" in
  false) dflt=n;;
  *) dflt=y;;
  esac
  . ./myread
  echo " "
  case "$ans" in
  [yY]*) opt=' notifypatches'; notifypatches=true;;
  *)
   echo "Fine, I'll simply say that you've tried it then."
   notifypatches=false
   ;;
  esac
  ;;
 esac
 echo "Sending mail to <MAINTLOC>..." >&4
?X: Bizarre hack here. We can't just put @SH in the hereis lines below, because
?X: metaconfig will interpret it as a command, and there's no quoting mechanism.
?X: Do it via a variable instead.
 atsh='@SH'
 $mailer <MAINTLOC> <<EOM >/dev/null 2>&1
```

```
Subject: Command
Precedence: junk
To: <MAINTLOC>

$atsh
 package $usermail $package $baserev $patchlevel$opt
EOM
 $rm -f ../.config/mailauthor ../.config/nomail
 cp $rsrc/patchlevel.h ../.config/mailauthor
 ;;
*)
 case "$dflt" in
 "y")
  echo "Oh well, maybe next time."
  cp /dev/null ../.config/nomail
  ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/MailAuthor.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_msgsnd.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msgsnd.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:41  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_msgsnd: Inlibc
?MAKE: -pick add $@ %<
?S:d_msgsnd:
?S: This variable conditionally defines the HAS_MSGSND symbol, which
?S: indicates to the C program that the msgsnd() routine is available.
?S:.
?C:HAS_MSGSND:
?C: This symbol, if defined, indicates that the msgsnd() routine is
?C: available to send a message into the message queue.
```

```
?C:.
?H:#$d_msgsnd
 HAS_MSGSND  /**/
?H:.
?LINT:set d_msgsnd
: see if msgsnd exists
set msgsnd d_msgsnd
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_msgsnd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strcspn.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strcspn.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:33  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strcspn: Inlibc
?MAKE: -pick add $@ %<
?S:d_strcspn:
?S: This variable conditionally defines the HAS_STRCSPN symbol, which
?S: indicates to the C program that the strcspn() routine is available
?S: to scan strings.
?S:.
?C:HAS_STRCSPN (STRCSPN):
?C: This symbol, if defined, indicates that the strcspn routine is
?C: available to scan
 strings.
?C:.
?H:#$d_strcspn HAS_STRCSPN  /**/
?H:.
?LINT:set d_strcspn
: see if strcspn exists
set strcspn d_strcspn
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strcspn.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_string.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_string.U,v $
?RCS: Revision 3.0.1.2  1993/10/16  13:50:12  ram
?RCS: patch12: special units Loc and Guess were missing from dependencies
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:07:26  ram
?RCS: patch10: removed "(Actually, this looks more like...)" messages (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:28  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: See if we should include <string.h> or <strings.h>
?X:
?MAKE:i_string strings:
 test Setvar Findhdr Warn
?MAKE: -pick add $@ %<
?S:i_string:
?S: This variable conditionally defines the I_STRING symbol, which
?S: indicates that <string.h> should be included rather than <strings.h>.
?S:.
?S:strings:
?S: This variable holds the full path of the string header that will be
?S: used. Typically /usr/include/string.h or /usr/include/strings.h.
?S:.
?C:I_STRING:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <string.h> (USG systems) instead of <strings.h> (BSD systems).
?C:.
?H:#$i_string I_STRING  /**/
?H:.
?LINT:set i_string
: see which of string.h or strings.h is needed
echo " "
strings=`./findhdr string.h`
```

```
if $test "$strings" && $test -r "$strings"; then
 echo "Using <string.h> instead of <strings.h>." >&4
 val="$define"
else
 val="$undef"
 strings=`./findhdr strings.h`
 if $test "$strings" && $test -r "$strings"; then
  echo "Using <strings.h> instead of <string.h>." >&4
 else
  ./warn "No string header found -- You'll surely
 have problems."
 fi
fi
set i_string
eval $setvar
case "$i_string" in
"$undef") strings=`./findhdr strings.h`;;
*)   strings=`./findhdr string.h`;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_string.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: archlib.U,v 3.1 1999/07/08 18:32:29 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: archlib.U,v $
?RCS: Revision 3.1  1999/07/08 18:32:29  doughera
?RCS: Updated for perl5.005_5x
?RCS:
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:15:18  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/02/15  14:14:14  ram
?RCS: patch51: architecture name is now
```

```
 computed by a separate unit
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:32:22  ram
?RCS: patch49: archname is now systematically recomputed
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:02:36  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_archlib archlib archlibexp installarchlib: \
 cat Getfile Setprefixvar Loc Oldconfig archname spackage  \
 privlib sed test Prefixit Prefixup binexp
?MAKE: -pick add $@ %<
?Y:TOP
?S:d_archlib:
?S: This variable conditionally defines ARCHLIB to hold the pathname
?S: of architecture-dependent library files for $package.  If
?S: $archlib is the same as $privlib, then this is set to undef.
?S:.
?D:archlib=''
?S:archlib:
?S: This variable holds the name of the directory in which the user wants
?S: to put architecture-dependent public library files for $package.
?S: It is most often a local directory such as /usr/local/lib.
?S: Programs using this variable must be prepared to deal
?S: with
 filename expansion.
?S:.
?D:archlibexp=''
?S:archlibexp:
?S: This variable is the same as the archlib variable, but is
?S: filename expanded at configuration time, for convenient use.
?S:.
?D:installarchlib=''
?S:installarchlib:
?S: This variable is really the same as archlibexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?C:ARCHLIB:
?C: This variable, if defined, holds the name of the directory in
?C: which the user wants to put architecture-dependent public
?C: library files for $package.  It is most often a local directory
?C: such as /usr/local/lib.  Programs using this variable must be
?C: prepared to deal with filename expansion.  If ARCHLIB is the
?C: same as PRIVLIB, it is not defined, since presumably the
?C: program already searches PRIVLIB.
?C:.
```

```
?C:ARCHLIB_EXP:
?C: This symbol contains the ~name expanded version of ARCHLIB, to be used
?C: in programs that are not prepared to deal with ~ expansion
 at run-time.
?C:.
?H:#$d_archlib ARCHLIB "$archlib"  /**/
?H:#$d_archlib ARCHLIB_EXP "$archlibexp"  /**/
?H:.
?T: tdflt
?LINT:change prefixvar
?LINT:set archlib
?LINT:set archlibexp
?LINT:set installarchlib
: determine where public architecture dependent libraries go
set archlib archlib
eval $prefixit
: privlib default is /usr/local/lib/$package/$version
: archlib default is /usr/local/lib/$package/$version/$archname
: privlib may have an optional trailing /share.
tdflt=`echo $privlib | $sed 's,/share$,,'`
tdflt=$tdflt/$archname
case "$archlib" in
") dflt=$tdflt
 ;;
*) dflt="$archlib"
   ;;
esac
$cat <<EOM

$spackage contains architecture-dependent library files.  If you are
sharing libraries in a heterogeneous environment, you might store
these files in a separate location.  Otherwise, you can just include
them with the rest of the public library files.

EOM
?X: Force dependency on bin.U
fn=$binexp
fn=d+~
rp='Where do you want to put the public architecture-dependent libraries?'
.
 ./getfile
prefixvar=archlib
. ./setprefixvar
if $test X"$archlib" = X"$privlib"; then
 d_archlib="$undef"
else
 d_archlib="$define"
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/archlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Obsol_h.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Obsol_h.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:11  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file is prepended to .MT/Obsol_h if that file is not empty. That file
?X: contains the necessary mappings of new symbols to obsolete ones.
?X:
?MAKE:Obsol_h:
?MAKE: -pick prepend $@ ./Obsol_h
?LINT:nocomment
/*
* The following symbols are obsolete. They are mapped to the new
* symbols only to ease the transition process. The sources
 should be
* updated so as to use the new symbols only, as the support for these
* obsolete symbols may end without notice.
*/
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Obsol_h.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:siteman1dir siteman1direxp installsiteman1dir: Getfile \
 Setprefixvar prefix siteprefix man1dir sed
?MAKE: -pick add $@ %<
?Y:TOP
?D:siteman1dir=''
?S:siteman1dir:
?S: This variable contains the name of the directory in which site-specific
?S: manual source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S: The standard distribution will put nothing in this directory.
?S: After perl
 has been installed, users may install their own local
?S: man1 pages in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:siteman1direxp=''
?S:siteman1direxp:
?S: This variable is the same as the siteman1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsiteman1dir=''
?S:installsiteman1dir:
?S: This variable is really the same as siteman1direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man1direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installsiteman1dir
?LINT:set siteman1dir
?LINT:set siteman1direxp
: determine where add-on manual pages go
case "$siteman1dir" in
'') dflt=`echo $man1dir | $sed "s#^$prefix#$siteprefix#"` ;;
*) dflt=$siteman1dir ;;
esac
case "$dflt" in
'|' ') dflt=none ;;
esac
fn=dn+~
rp='Pathname
 where the site-specific manual pages should be installed?'
. ./getfile
prefixvar=siteman1dir
```

```
. ./setprefixvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/siteman1dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_srandom_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_srandom_r srandom_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_stdlib extern_C
?MAKE: -pick add $@ %<
?S:d_srandom_r:
?S: This variable conditionally defines the HAS_SRANDOM_R symbol,
?S: which indicates to the C program that the srandom_r()
?S: routine is available.
?S:.
?S:srandom_r_proto:
?S: This variable encodes the prototype of srandom_r.
?S: It is zero if d_srandom_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_srandom_r
?S: is defined.
?S:.
?C:HAS_SRANDOM_R:
?C: This symbol, if defined, indicates that the srandom_r routine
?C: is available to srandom re-entrantly.
?C:.
?C:SRANDOM_R_PROTO:
?C: This
 symbol encodes the prototype of srandom_r.
?C: It is zero if d_srandom_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_srandom_r
?C: is defined.
?C:.
?H:#$d_srandom_r HAS_SRANDOM_R /**/
?H:#define SRANDOM_R_PROTO $srandom_r_proto /**/
?H:.
?T:try hdrs d_srandom_r_proto
: see if srandom_r exists
set srandom_r d_srandom_r
eval $inlibc
case "$d_srandom_r" in
```

```
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_stdlib stdlib.h"
 case "$d_srandom_r_proto:$usethreads" in
 ":define") d_srandom_r_proto=define
  set d_srandom_r_proto srandom_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_srandom_r_proto" in
 define)
 case "$srandom_r_proto" in
 "|0) try='int srandom_r(unsigned int, struct random_data*);'
 ./protochk "$extern_C $try" $hdrs && srandom_r_proto=I_TS ;;
 esac
 case "$srandom_r_proto" in
 "|0) d_srandom_r=undef
  srandom_r_proto=0
  echo "Disabling srandom_r, cannot determine prototype." >&4 ;;
 *
 ) case "$srandom_r_proto" in
  REENTRANT_PROTO*) ;;
  *) srandom_r_proto="REENTRANT_PROTO_$srandom_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "srandom_r has no prototype, not using it." >&4 ;;
  esac
  d_srandom_r=undef
  srandom_r_proto=0
  ;;
 esac
 ;;
*) srandom_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_srandom_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2004 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strlcpy: Inlibc Hasproto d_gnulibc
?MAKE: -pick add $@ %<
?S:d_strlcpy:
?S: This variable conditionally defines the HAS_STRLCPY symbol, which
?S: indicates to the C program that the strlcpy () routine is available.
?S:.
?C:HAS_STRLCPY:
?C: This symbol, if defined, indicates that the strlcpy () routine is
?C: available to do string copying.
?C:.
?H:#$d_strlcpy HAS_STRLCPY  /**/
?H:.
?T:d_strlcpy_proto xx1 xx2 xx3 xx4
?LINT:set d_strlcpy
: see if strlcpy exists
: We need both a prototype in string.h and the symbol in libc.
echo " "
d_strlcpy_proto="
xx1="#$d_gnulibc HAS_GNULIBC"
xx2='#if defined(HAS_GNULIBC) && !defined(_GNU_SOURCE)'
xx3='#   define _GNU_SOURCE'
xx4='#endif'
set d_strlcpy_proto strlcpy
 literal "$xx1" literal "$xx2" literal "$xx3" literal "$xx4" define string.h
eval $hasproto
case "$d_strlcpy_proto" in
   define) # see if strlcpy exists
 set strlcpy d_strlcpy
 eval $inlibc
 ;;
   *)  val=$undef
 set d_strlcpy
 eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strlcpy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorprefix.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorprefix.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:usevendorprefix vendorprefix vendorprefixexp +oldvendorprefix: \
 Getfile Loc Oldconfig cat prefix Myread
?MAKE: -pick add $@ %<
?S:usevendorprefix:
?S: This variable tells whether the vendorprefix
?S: and consequently other vendor* paths are in use.
?S:.
?S:vendorprefix:
?S: This variable holds the full absolute path of the directory below
?S: which
 the vendor will install add-on packages.
?S: See INSTALL for usage and examples.
?S:.
?S:vendorprefixexp:
?S: This variable holds the full absolute path of the directory below
?S: which the vendor will install add-on packages.  Derived from vendorprefix.
?S:.
?S:oldvendorprefix:
?S: This variable is set non-null if the vendorprefix was previously defined
?S: and gets set to a new value. Used internally by Configure only.
?S:.
: Set the vendorprefix variables
$cat <<EOM

The installation process will also create a directory for
vendor-supplied add-ons.  Vendors who supply perl with their system
may find it convenient to place all vendor-supplied files in this
directory rather than in the main distribution directory.  This will
ease upgrades between binary-compatible maintenance versions of perl.

Of course you may also use these directories in whatever way you see
fit.  For example, you might use them to access modules shared over a
company-wide network.

The default answer should be
 fine for most people.
This causes further questions about vendor add-ons to be skipped
and no vendor-specific directories will be configured for perl.
```

```
EOM
rp='Do you want to configure vendor-specific add-on directories?'
case "$usevendorprefix" in
define|true|[yY]*) dflt=y ;;
*) : User may have set vendorprefix directly on Configure command line.
 case "$vendorprefix" in
 "|' ') dflt=n ;;
 *) dflt=y ;;
 esac
 ;;
esac
. ./myread
case "$ans" in
[yY]*) fn=d~+
 rp='Installation prefix to use for vendor-supplied add-ons?'
 case "$vendorprefix" in
 ") dflt="$prefix" ;;
 *)  dflt=$vendorprefix ;;
 esac
 . ./getfile
 : XXX Prefixit unit does not yet support siteprefix and vendorprefix
 oldvendorprefix="
 case "$vendorprefix" in
 ") ;;
 *) case "$ans" in
  "$prefix") ;;
  *) oldvendorprefix="$prefix";;
  esac
  ;;
 esac
 usevendorprefix="$define"
 vendorprefix="$ans"
 vendorprefixexp="$ansexp"
 ;;
*) usevendorprefix="$undef"
 vendorprefix="
 vendorprefixexp="
 ;;
esac
```

Found in path(s):
*
/opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/vendorprefix.U
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: prototype.U,v $
?RCS: Revision 3.0.1.3  1994/05/06  15:11:49  ram
?RCS: patch23: ensure cc flags used when looking for prototype support
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:15:36  ram
?RCS: patch16: prototype handling macros now appear only when needed
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:03:12  ram
?RCS: patch6: defines were referring to non-existent VOID symbol
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:36  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:prototype:
 Myread Oldconfig cat +cc +ccflags rm Setvar
?MAKE: -pick add $@ %<
?S:prototype:
?S: This variable holds the eventual value of CAN_PROTOTYPE, which
?S: indicates the C compiler can handle funciton prototypes.
?S:.
?C:CAN_PROTOTYPE ~ %<:
?C: If defined, this macro indicates that the C compiler can handle
?C: function prototypes.
?C:.
?C:DOTS:
?C: This macro is used to specify the ... in function prototypes which
?C: have arbitrary additional arguments.
?C:.
?C:NXT_ARG:
?C: This macro is used to separate arguments in the declared argument list.
?C:.
?C:P_FUNC:
?C: This macro is used to declare "private" (static) functions.
?C: It takes three arguments: the function type and name, a parenthesized
?C: traditional (comma separated) argument list, and the declared argument
?C: list (in which arguments are separated with NXT_ARG, and additional
?C: arbitrary arguments are specified with DOTS).  For example:
?C:
?C:  P_FUNC(int foo, (bar, baz), int bar NXT_ARG char *baz[])
?C:.
```

```
?C:P_FUNC_VOID:
?C: This
 macro is used to declare "private" (static) functions that have
?C: no arguments.  The macro takes one argument: the function type and name.
?C: For example:
?C:
?C:  P_FUNC_VOID(int subr)
?C:.
?C:V_FUNC:
?C: This macro is used to declare "public" (non-static) functions.
?C: It takes three arguments: the function type and name, a parenthesized
?C: traditional (comma separated) argument list, and the declared argument
?C: list (in which arguments are separated with NXT_ARG, and additional
?C: arbitrary arguments are specified with DOTS).  For example:
?C:
?C:  V_FUNC(int main, (argc, argv), int argc NXT_ARG char *argv[])
?C:.
?C:V_FUNC_VOID:
?C: This macro is used to declare "public" (non-static) functions that have
?C: no arguments.  The macro takes one argument: the function type and name.
?C: For example:
?C:
?C:  V_FUNC_VOID(int fork)
?C:.
?C:_ (P):
?C: This macro is used to declare function parameters for folks who want
?C: to make declarations with prototypes using a
 different style than
?C: the above macros.  Use double parentheses.  For example:
?C:
?C:  int main _((int argc, char *argv[]));
?C:.
?H:?%<:#$prototype CAN_PROTOTYPE /**/
?H:?%<:#ifdef CAN_PROTOTYPE
?H:?NXT_ARG:#define NXT_ARG ,
?H:?DOTS:#define DOTS , ...
?H:?V_FUNC:#define V_FUNC(name, arglist, args)name(args)
?H:?P_FUNC:#define P_FUNC(name, arglist, args)static name(args)
?H:?V_FUNC_VOID:#define V_FUNC_VOID(name)name(void)
?H:?P_FUNC_VOID:#define P_FUNC_VOID(name)static name(void)
?H:?_:#define _(args) args
?H:?%<:#else
?H:?NXT_ARG:#define NXT_ARG ;
?H:?DOTS:#define DOTS
?H:?V_FUNC:#define V_FUNC(name, arglist, args)name arglist args;
?H:?P_FUNC:#define P_FUNC(name, arglist, args)static name arglist args;
?H:?V_FUNC_VOID:#define V_FUNC_VOID(name)name()
?H:?P_FUNC_VOID:#define P_FUNC_VOID(name)static name()
```

```
?H:?_:#define _(args) ()
?H:?%<:#endif
?H:.
?W:%<:NXT_ARG DOTS V_FUNC P_FUNC V_FUNC_VOID P_FUNC_VOID _
?LINT:set prototype
: Cruising for prototypes
echo " "
echo "Checking out
 function prototypes..." >&4
$cat >prototype.c <<'EOCP'
int main(int argc, char *argv[]) {
 exit(0);}
EOCP
if $cc $ccflags -c prototype.c >prototype.out 2>&1 ; then
 echo "Your C compiler appears to support function prototypes."
 val="$define"
else
 echo "Your C compiler doesn't seem to understand function prototypes."
 val="$undef"
fi
set prototype
eval $setvar
$rm -f prototype*
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/prototype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: errnolist.U,v 3.0.1.2 1997/02/28 15:48:01 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: errnolist.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:48:01  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: likewise for .o replaced by $_o
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:10:54  ram
?RCS: patch16: created
?RCS:
?MAKE:errnolist errnolist_SH errnolist_a errnolist_c errnolist_o: cat \
```

```
 Compile +d_sysernlst _a _o
?MAKE: -pick add $@ %<
?S:errnolist:
?S: This variable holds the base name of a file containing the
?S: definition
 of the sys_errnolist array, if the C library
?S: doesn't provide it already.  Otherwise, its value is empty.
?S: The following lines should be included in your Makefile.SH:
?S:
?S:  case "$errnolist" in
?S:  ") ;;
?S:  *)
?S:   $spitshell >>Makefile <<!GROK!THIS!
?S:  $errnolist_c: $errnolist_SH $errnolist_a
?S:   sh ./$errnolist_SH
?S:
?S:  !GROK!THIS!
?S:   ;;
?S:  esac
?S:
?S: You may define the 'errnolist' variable in your Myinit.U if you
?S: wish to override its default value "errnolist".
?S:.
?S:errnolist_SH:
?S: This is the name of a file which will generate errnolistc.
?S:.
?S:errnolist_a:
?S: This is the name of the awk script called by errnolist_SH.
?S:.
?S:errnolist_c:
?S: This is the name of a generated C file which provides the
?S: definition of the sys_errnolist array.
?S:.
?S:errnolist_o:
?S: This is the name of the object file which provides the
?S: definition of the sys_errnolist array, if the C library
?S: doesn't provide it already.  Otherwise, its value is
 empty.
?S:.
?INIT:errnolist=errnolist
: check for sys_errnolist
@if d_sysernlst || HAS_SYS_ERRNOLIST
case "$d_sysernlst" in
"$define")
   errnolist="
   errnolist_SH="
   errnolist_a="
   errnolist_c="
```

```
   errnolist_o="
 ;;
*)
 echo " "
 echo "I'll make sure your Makefile provides sys_errnolist in $errnolist.c"
   errnolist_SH=$errnolist.SH
   errnolist_a=$errnolist$_a
   errnolist_c=$errnolist.c
   errnolist_o=$errnolist$_o
 ;;
esac
@else
echo " "
$cat <<EOM
Checking to see if your C library provides us with sys_errnolist[]...
EOM
$cat >errnolist.c <<'EOCP'
extern char *sys_errnolist[];
int main() {
   char *p0 = sys_errnolist[0];
   char *p1 = sys_errnolist[1];

   return (p0 == p1); /* Make sure they're not optimized away */
}
EOCP
set errnolist
if eval $compile; then
   echo "It does."
   errnolist="
   errnolist_SH="
   errnolist_a="
   errnolist_c="
   errnolist_o="
else
 echo "I'll make sure your Makefile provides sys_errnolist in $errnolist.c"
   errnolist_SH=$errnolist.SH
    errnolist_a=$errnolist$_a
   errnolist_c=$errnolist.c
   errnolist_o=$errnolist$_o
fi
@end
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/errnolist.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_getprior.U 1 2006-08-24 12:32:52Z rmanfredi $

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getprior.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:16  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getprior: Inlibc
?MAKE: -pick add $@ %<
?S:d_getprior:
?S: This variable conditionally defines HAS_GETPRIORITY if getpriority()
?S: is available to get a process's priority.
?S:.
?C:HAS_GETPRIORITY (GETPRIORITY):
?C: This symbol, if defined, indicates that the getpriority routine is
?C: available to get a process's priority.
?C:.
?H:#$d_getprior
 HAS_GETPRIORITY  /**/
?H:.
: see if getpriority exists
?LINT:set d_getprior
set getpriority d_getprior
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getprior.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_nextafter: Inlibc
?MAKE: -pick add $@ %<
?S:d_nextafter:
?S: This variable conditionally defines HAS_NEXTAFTER if nextafter()
?S: is available to return the next machine representable double from
?S: x in direction y.
?S:.
?C:HAS_NEXTAFTER:
?C: This symbol, if defined, indicates that the nextafter routine is
```

```
?C: available to return the next machine representable double from
?C: x in direction y.
?C:.
?H:#$d_nextafter HAS_NEXTAFTER  /**/
?H:.
?LINT:set d_nextafter
: see if nextafter exists
set nextafter d_nextafter
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_nextafter.U
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```
?RCS: $Id: d_fgetpos.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_fgetpos.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  06:57:33  ram
?RCS: patch30: created
?RCS:
?MAKE:d_fgetpos: Inlibc
?MAKE: -pick add $@ %<
?S:d_fgetpos:
?S: This variable conditionally defines HAS_FGETPOS if fgetpos() is
?S: available to get the file position indicator.
?S:.
?C:HAS_FGETPOS:
?C: This symbol, if defined, indicates that the fgetpos routine is
?C: available to get the file position indicator, similar to ftell().
?C:.
?H:#$d_fgetpos
 HAS_FGETPOS /**/
?H:.
?LINT:set d_fgetpos
: see if fgetpos exists
set fgetpos d_fgetpos
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_fgetpos.U
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```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: fpu.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:10  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:fpu: test cat cc Myread
?MAKE: -pick add $@ %<
?S:fpu (fpunit):
?S: Set to be the compile flag for the local floating point unit.
?S:.
?C:FPU (FPUNIT):
?C: String containing the flags for the local floating point unit.
?C:.
?H:#define FPU "$fpu" /**/
?H:.
: see what floating point compile flags should be used.
fpu=''
if $test -r /dev/fpa; then
 $cat>fpa.c << GOOP
 main(){return(1);}
GOOP
 $cc
 -ffpa -o fpa fpa.c
 fpa > fpa.out 2>&1
 if $test ! -s fpa.out; then
  dflt='y'
  $cat <<'EOM'

You seem to have a sun fpa...  I can compile the code to use the fpa but it will
mean that the code can ONLY run on a machine with a fpa...

EOM
  rp="Should I compile for fpa?"
  . ./myread
  if $test $ans = "n"; then
```

```
   fpu=''
  else
   fpu='-ffpa'
  fi
 else
  $cat <<'EOM'

You have the fpa device but I can't seem to use it.  Maybe you should talk to
your sysadmin about this.  For now, I am not going to compile it in.

EOM
 fi
fi
if $test "$fpu" = ''; then
 if $test -r /usr/etc/mc68881version; then
  dflt='y'
  $cat <<'EOM'

There also seems to be the pieces for a 68881.  If I compile this in, it will
work on almost all Sun 3's except for a few Sun-3/50s without a 68881...

EOM
  rp="Should I compile for a 68881?"
  . ./myread
  if $test $ans = "y"; then
   fpu='-f68881'
  fi
 fi
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/fpu.U
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```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_statblks.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:29  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?MAKE:d_statblks: contains Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_statblks:
?S: This variable conditionally defines USE_STAT_BLOCKS if this system
?S: has a stat structure declaring st_blksize and st_blocks.
?S:.
?C:USE_STAT_BLOCKS (STATBLOCKS):
?C: This symbol is defined if this system has a stat structure declaring
?C: st_blksize and st_blocks.
?C:.
?H:#$d_statblks USE_STAT_BLOCKS
  /**/
?H:.
?T:xxx
?LINT:set d_statblks
: see if stat knows about block sizes
echo " "
xxx=`./findhdr sys/stat.h`
if $contains 'st_blocks;' "$xxx" >/dev/null 2>&1 ; then
 if $contains 'st_blksize;' "$xxx" >/dev/null 2>&1 ; then
  echo "Your stat() knows about block sizes." >&4
  val="$define"
 else
  echo "Your stat() doesn't know about block sizes." >&4
  val="$undef"
 fi
else
 echo "Your stat() doesn't know about block sizes." >&4
 val="$undef"
fi
set d_statblks
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_statblks.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:st_dev_size st_dev_sign: cat echo i_stdlib Setvar Compile run rm_try
```

```
?MAKE: -pick add $@ %<
?S:st_dev_sign:
?S: This variable contains the signedness of struct stat's st_dev.
?S: 1 for unsigned, -1 for signed.
?S:.
?S:st_dev_size:
?S: This variable contains the size of struct stat's st_dev in bytes.
?S:.
?C:ST_DEV_SIZE:
?C: This variable contains the size of struct stat's st_dev in bytes.
?C:.
?C:ST_DEV_SIGN:
?C: This symbol holds the signedness of struct stat's st_dev.
?C: 1 for unsigned, -1 for signed.
?C:.
?H:#define ST_DEV_SIGN
 $st_dev_sign /* st_dev sign */
?H:#define ST_DEV_SIZE $st_dev_size /* st_dev size */
?H:.
?F:!try
: Check the size of st_dev
$echo " "
$echo "Checking the size of st_dev..." >&4
$cat > try.c <<EOCP
#include <sys/stat.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() {
   struct stat st;
   printf("%d\n", (int)sizeof(st.st_dev));
   exit(0);
}
EOCP
set try
if eval $compile_ok; then
 val=`$run ./try`
 case "$val" in
 ") st_dev_size=4
  $echo "(I can't execute the test program--guessing $st_dev_size.)" >&4
  ;;
 *) st_dev_size=$val
  $echo "Your st_dev is $st_dev_size bytes long."
  ;;
 esac
else
```

```
 st_dev_size=4
 $echo "(I can't compile the test program--guessing $st_dev_size.)" >&4
fi
$rm_try

: Check if st_dev is signed
$echo " "
$echo "Checking the sign of st_dev..." >&4
$cat > try.c <<EOCP
#include <sys/stat.h>
#include <stdio.h>
int main() {
 struct stat foo;
       foo.st_dev = -1;
 if (foo.st_dev < 0)
  printf("-1\n");
 else
  printf("1\n");
}
EOCP
set
 try
if eval $compile; then
 val=`$run ./try`
 case "$val" in
 ") st_dev_sign=1
  $echo "(I can't execute the test program--guessing unsigned.)" >&4
  ;;
 *) st_dev_sign=$val
  case "$st_dev_sign" in
   1) $echo "Your st_dev is unsigned." ;;
  -1) $echo "Your st_dev is signed."   ;;
  esac
  ;;
 esac
else
 st_dev_sign=1
 $echo "(I can't compile the test program--guessing unsigned.)" >&4
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/st_dev_def.U
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?RCS: Id
?RCS:

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_flexfnam.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_flexfnam: cat rm test Setvar
?MAKE: -pick add $@ %<
?S:d_flexfnam:
?S: This variable conditionally defines the FLEXFILENAMES symbol, which
?S: indicates that the system supports filenames longer than 14 characters.
?S:.
?C:FLEXFILENAMES:
?C: This symbol, if defined, indicates that the system supports filenames
?C: longer than 14 characters.
?C:.
?H:#$d_flexfnam FLEXFILENAMES  /**/
?H:.
?T:first
 second
?LINT:set d_flexfnam
: see if we can have long filenames
echo " "
?X:
?X: We have to test in both /tmp and . because of NFS (remote server may allow
?X: long filenames while the local filesystem cannot support them). If at least
?X: one of those file systems cannot support long filenames, then we assume the
?X: whole system can't.
?X:
rmlist="$rmlist /tmp/cf$$"
$test -d /tmp/cf$$ || mkdir /tmp/cf$$
first=123456789abcdef
second=/tmp/cf$$/$first
$rm -f $first $second
if (echo hi >$first) 2>/dev/null; then
 if $test -f 123456789abcde; then
  echo 'You cannot have filenames longer than 14 characters.  Sigh.' >&4
  val="$undef"
 else
  if (echo hi >$second) 2>/dev/null; then
   if $test -f /tmp/cf$$/123456789abcde; then
    $cat <<'EOM'
```

```
That's peculiar... You can have filenames longer than 14 characters, but only
on some of the filesystems.  Maybe you are using NFS.  Anyway, to avoid problems
I shall consider your system cannot support long filenames at all.
EOM
    val="$undef"
   else
    echo
 'You can have filenames longer than 14 characters.' >&4
    val="$define"
   fi
  else
   $cat <<'EOM'
How confusing! Some of your filesystems are sane enough to allow filenames
longer than 14 characters but some others like /tmp can't even think about them.
So, for now on, I shall assume your kernel does not allow them at all.
EOM
   val="$undef"
  fi
 fi
else
 $cat <<'EOM'
You can't have filenames longer than 14 chars.  You can't even think about them!
EOM
 val="$undef"
fi
set d_flexfnam
eval $setvar
$rm -rf /tmp/cf$$ 123456789abcde*
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_flexfnam.U
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```
?RCS: $Id: d_system.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_system.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:d_system: Inlibc
?MAKE: -pick add $@ %<
?S:d_system:
?S: This variable conditionally defines HAS_SYSTEM if system() is
?S: available to issue a shell command.
?S:.
?C:HAS_SYSTEM (SYSTEM):
?C: This symbol, if defined, indicates that the system routine is
?C: available to issue a shell command.
?C:.
?H:#$d_system HAS_SYSTEM /**/
?H:.
?LINT:set
 d_system
: see if system exists
set system d_system
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_system.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2019 Karl Williamson
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?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_towupper: Inlibc
?MAKE: -pick add $@ %<
?S:d_towupper:
?S: This variable conditionally defines the HAS_TOWUPPER symbol, which
?S: indicates to the C program that the towupper() routine is available.
?S:.
?C:HAS_TOWUPPER:
?C: This symbol, if defined, indicates that the towupper () routine is
?C: available to do case conversion.
?C:.
?H:#$d_towupper HAS_TOWUPPER  /**/
?H:.
?LINT:set d_towupper
: see if towupper exists
set towupper d_towupper
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_towupper.U
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```
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: nis.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:17:38  ram
?RCS: patch61: ensure suitable defaults for hostcat and friends
?RCS:
?RCS: Revision 3.0.1.2  1995/03/21  08:48:34  ram
?RCS: patch52: continued fix for NeXT NIS/NetInfo handling
?RCS:
?RCS: Revision 3.0.1.1  1995/02/15  14:16:23  ram
?RCS: patch51: now correctly handles NeXT using NIS rather than NetInfo
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:passcat groupcat hostcat:
 Myread Oldconfig test contains
?MAKE: -pick add $@ %<
?S:passcat:
?S: This variable contains a command that produces the text of the
?S: /etc/passwd file.  This is normally "cat /etc/passwd", but can be
?S: "ypcat passwd" when NIS is used.
?S:.
?S:groupcat:
?S: This variable contains a command that produces the text of the
?S: /etc/group file.  This is normally "cat /etc/group", but can be
?S: "ypcat group" when NIS is used.
?S:.
?S:hostcat:
?S: This variable contains a command that produces the text of the
?S: /etc/hosts file.  This is normally "cat /etc/hosts", but can be
?S: "ypcat hosts" when NIS is used.
?S:.
: see if we have to deal with yellow pages, now NIS.
?X: NeXT gives us some fun here, as always, by having both NIS (former YP)
?X: and NetInfo. But since it has both, it's ok to put the test inside the if.
```

```
?X: Contributed by Thomas Neumann <tom@smart.bo.open.de>.
if $test -d /usr/etc/yp || $test -d /etc/yp || $test -d /usr/lib/yp; then
 if $test -f /usr/etc/nibindd; then
  echo
 " "
  echo "I'm fairly confident you're on a NeXT."
@if passcat || groupcat
  echo " "
  rp='Do you get the passwd file via NetInfo?'
  dflt=y
  case "$passcat" in
  nidump*) ;;
  ") ;;
  *) dflt=n;;
  esac
  . ./myread
  case "$ans" in
  y*) passcat='nidump passwd .'
@if groupcat
   echo "(Assuming /etc/group is also distributed.)"
   groupcat='nidump group .'
@end
   ;;
  *) echo "You told me, so don't blame me."
   case "$passcat" in
   nidump*) passcat="
@if groupcat
     groupcat=";;
@end
   esac
@if groupcat
   echo "(Assuming /etc/group is handled the same way.)"
@end
   ;;
  esac
@end
@if hostcat
  echo " "
  rp='Do you get the hosts file via NetInfo?'
  dflt=y
  case "$hostcat" in
  nidump*) ;;
  ") ;;
  *) dflt=n;;
  esac
  . ./myread
  case "$ans" in
  y*) hostcat='nidump hosts .';;
```

```
  *) case "$hostcat" in
   nidump*) hostcat=";;
   esac
   ;;
  esac
@end
 fi
@if passcat || groupcat
 case "$passcat" in
 nidump*) ;;
 *)
  case "$passcat" in
  *ypcat*) dflt=y;;
  ")
 if $contains '^\+' /etc/passwd >/dev/null 2>&1; then
    dflt=y
   else
    dflt=n
   fi;;
  *) dflt=n;;
  esac
  echo " "
  rp='Are you getting the passwd file via yellow pages?'
  . ./myread
  case "$ans" in
  y*) passcat='ypcat passwd'
@if groupcat
   echo "(Assuming /etc/group is also distributed.)"
   groupcat='ypcat group'
@end
   ;;
  *) passcat='cat /etc/passwd'
@if groupcat
   echo "(Assuming /etc/group is also local.)"
   groupcat='cat /etc/group'
@end
   ;;
  esac
  ;;
 esac
@end
@if hostcat
 case "$hostcat" in
 nidump*) ;;
 *)
  case "$hostcat" in
  *ypcat*) dflt=y;;
  ") if $contains '^\+' /etc/passwd >/dev/null 2>&1; then
```

```
    dflt=y
   else
    dflt=n
   fi;;
  *) dflt=n;;
  esac
  echo " "
  rp='Are you getting the hosts file via yellow pages?'
  . ./myread
  case "$ans" in
  y*) hostcat='ypcat hosts';;
  *) hostcat='cat /etc/hosts';;
  esac
  ;;
 esac
@end
fi
?X: Ensure suitable default -- Manoj Srivastava
case "$hostcat" in
") hostcat=':'
 $test -f /etc/hosts && hostcat='cat
 /etc/hosts';;
esac
case "$groupcat" in
") groupcat=':'
 $test -f /etc/group && groupcat='cat /etc/group';;
esac
case "$passcat" in
") passcat=':'
 $test -f /etc/passwd && passcat='cat /etc/passwd';;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/nis.U
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```
?RCS: $Id: d_pthread_y.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_pthread_yield sched_yield d_sched_yield: \
 Compile Setvar cat rm_try usethreads
?MAKE: -pick add $@ %<
?S:d_pthread_yield:
```

```
?S: This variable conditionally defines the HAS_PTHREAD_YIELD
?S: symbol if the pthread_yield routine is available to yield
?S: the execution of the current thread.
?S:.
?S:sched_yield:
?S: This variable defines the way to yield the execution
?S: of the current thread.
?S:.
?S:d_sched_yield:
?S: This variable conditionally defines the HAS_SCHED_YIELD
?S: symbol if the sched_yield routine is available to yield
?S: the execution of the current thread.
?S:.
?C:HAS_PTHREAD_YIELD:
?C: This symbol, if defined, indicates that the pthread_yield
?C: routine is available
 to yield the execution of the current
?C: thread.  sched_yield is preferable to pthread_yield.
?C:.
?C:SCHED_YIELD:
?C: This symbol defines the way to yield the execution of
?C: the current thread.  Known ways are sched_yield,
?C: pthread_yield, and pthread_yield with NULL.
?C:.
?C:HAS_SCHED_YIELD:
?C: This symbol, if defined, indicates that the sched_yield
?C: routine is available to yield the execution of the current
?C: thread.  sched_yield is preferable to pthread_yield.
?C:.
?H:#$d_pthread_yield HAS_PTHREAD_YIELD /**/
?H:#define SCHED_YIELD $sched_yield /**/
?H:#$d_sched_yield HAS_SCHED_YIELD /**/
?H:.
?LINT: set d_pthread_yield d_sched_yield
: see whether the various POSIXish _yields exist
$cat >try.c <<EOP
#include <pthread.h>
#include <stdio.h>
int main() {
#ifdef SCHED_YIELD
 sched_yield();
#else
#ifdef PTHREAD_YIELD
 pthread_yield();
#else
#ifdef PTHREAD_YIELD_NULL
 pthread_yield(NULL);
#endif
```

```
#endif
#endif
}
EOP
: see if sched_yield exists
set try -DSCHED_YIELD
if eval $compile;
 then
   val="$define"
   sched_yield='sched_yield()'
else
   val="$undef"
fi
case "$usethreads" in
$define)
 case "$val" in
 $define) echo 'sched_yield() found.' >&4 ;;
 *)  echo 'sched_yield() NOT found.' >&4 ;;
 esac
esac
set d_sched_yield
eval $setvar

: see if pthread_yield exists
set try -DPTHREAD_YIELD
if eval $compile; then
   val="$define"
   case "$sched_yield" in
   ") sched_yield='pthread_yield()' ;;
   esac
else
   set try -DPTHREAD_YIELD_NULL
   if eval $compile; then
 val="$define"
 case "$sched_yield" in
 ") sched_yield='pthread_yield(NULL)' ;;
 esac
   else
 val="$undef"
   fi
fi
case "$usethreads" in
$define)
 case "$val" in
 $define) echo 'pthread_yield() found.' >&4 ;;
 *)  echo 'pthread_yield() NOT found.' >&4 ;;
 esac
 ;;
```

```
esac
set d_pthread_yield
eval $setvar
case "$sched_yield" in
") sched_yield=undef ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_pthread_y.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getservent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getservent_r getservent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getservent_r:
?S: This variable conditionally defines the HAS_GETSERVENT_R symbol,
?S: which indicates to the C program that the getservent_r()
?S: routine is available.
?S:.
?S:getservent_r_proto:
?S: This variable encodes the prototype of getservent_r.
?S: It is zero if d_getservent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getservent_r
?S: is defined.
?S:.
?C:HAS_GETSERVENT_R:
?C: This symbol, if defined, indicates that the getservent_r routine
?C: is
 available to getservent re-entrantly.
?C:.
?C:GETSERVENT_R_PROTO:
?C: This symbol encodes the prototype of getservent_r.
?C: It is zero if d_getservent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getservent_r
?C: is defined.
?C:.
?H:#$d_getservent_r HAS_GETSERVENT_R /**/
?H:#define GETSERVENT_R_PROTO $getservent_r_proto /**/
```

```
?H:.
?T:try hdrs d_getservent_r_proto
: see if getservent_r exists
set getservent_r d_getservent_r
eval $inlibc
case "$d_getservent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getservent_r_proto:$usethreads" in
 ":define") d_getservent_r_proto=define
  set d_getservent_r_proto getservent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getservent_r_proto" in
 define)
 case "$getservent_r_proto" in
 "|0) try='int getservent_r(struct servent*, char*, size_t, struct servent**);'
 ./protochk "$extern_C $try" $hdrs && getservent_r_proto=I_SBWR ;;
 esac
 case "$getservent_r_proto"
 in
 "|0) try='int getservent_r(struct servent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getservent_r_proto=I_SBI ;;
 esac
 case "$getservent_r_proto" in
 "|0) try='struct servent* getservent_r(struct servent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getservent_r_proto=S_SBI ;;
 esac
 case "$getservent_r_proto" in
 "|0) try='int getservent_r(struct servent*, struct servent_data*);'
 ./protochk "$extern_C $try" $hdrs && getservent_r_proto=I_SD ;;
 esac
 case "$getservent_r_proto" in
 "|0) d_getservent_r=undef
  getservent_r_proto=0
  echo "Disabling getservent_r, cannot determine prototype." >&4 ;;
 * ) case "$getservent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getservent_r_proto="REENTRANT_PROTO_$getservent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getservent_r has no prototype, not using it." >&4 ;;
  esac
  d_getservent_r=undef
```

```
  getservent_r_proto=0
  ;;
 esac
 ;;
*) getservent_r_proto=0
 ;;
esac
```

Found
 in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getservent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getgrgid_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getgrgid_r getgrgid_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_grp extern_C
?MAKE: -pick add $@ %<
?S:d_getgrgid_r:
?S: This variable conditionally defines the HAS_GETGRGID_R symbol,
?S: which indicates to the C program that the getgrgid_r()
?S: routine is available.
?S:.
?S:getgrgid_r_proto:
?S: This variable encodes the prototype of getgrgid_r.
?S: It is zero if d_getgrgid_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getgrgid_r
?S: is defined.
?S:.
?C:HAS_GETGRGID_R:
?C: This symbol, if defined, indicates that the getgrgid_r routine
?C: is available to
 getgrgid re-entrantly.
?C:.
?C:GETGRGID_R_PROTO:
?C: This symbol encodes the prototype of getgrgid_r.
?C: It is zero if d_getgrgid_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getgrgid_r
?C: is defined.
?C:.
?H:#$d_getgrgid_r HAS_GETGRGID_R /**/
```

```
?H:#define GETGRGID_R_PROTO $getgrgid_r_proto /**/
?H:.
?T:try hdrs d_getgrgid_r_proto
: see if getgrgid_r exists
set getgrgid_r d_getgrgid_r
eval $inlibc
case "$d_getgrgid_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_grp grp.h"
 case "$d_getgrgid_r_proto:$usethreads" in
 ":define") d_getgrgid_r_proto=define
  set d_getgrgid_r_proto getgrgid_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getgrgid_r_proto" in
 define)
 case "$getgrgid_r_proto" in
 "|0) try='int getgrgid_r(gid_t, struct group*, char*, size_t, struct group**);'
 ./protochk "$extern_C $try" $hdrs && getgrgid_r_proto=I_TSBWR ;;
 esac
 case "$getgrgid_r_proto" in
 "|0) try='int getgrgid_r(gid_t, struct group*, char*, int, struct
 group**);'
 ./protochk "$extern_C $try" $hdrs && getgrgid_r_proto=I_TSBIR ;;
 esac
 case "$getgrgid_r_proto" in
 "|0) try='int getgrgid_r(gid_t, struct group*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getgrgid_r_proto=I_TSBI ;;
 esac
 case "$getgrgid_r_proto" in
 "|0) try='struct group* getgrgid_r(gid_t, struct group*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getgrgid_r_proto=S_TSBI ;;
 esac
 case "$getgrgid_r_proto" in
 "|0) d_getgrgid_r=undef
  getgrgid_r_proto=0
  echo "Disabling getgrgid_r, cannot determine prototype." >&4 ;;
 * ) case "$getgrgid_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getgrgid_r_proto="REENTRANT_PROTO_$getgrgid_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getgrgid_r has no prototype, not using it." >&4 ;;
  esac
```

```
  d_getgrgid_r=undef
  getgrgid_r_proto=0
  ;;
 esac
 ;;
*) getgrgid_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getgrgid_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_group.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_group.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:34:52  ram
?RCS: patch61: useless unit dropped.
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:48  ram
?RCS: patch32: created by ADO
?RCS:
?X:
?X: Useless unit dropped.
?X:
?LINT:empty
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_group.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: dlsrc.U,v$
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: dlsrc.U,v $
?RCS:
?X:  hpux support thanks to Jeff Okamoto <okamoto@hpcc101.corp.hp.com>
?X:
?X:  To create a shared library, you must compile ALL source files in the
?X:  library with +z (or possibly +Z if the library is whopping huge),
?X:  then link the library with -b.  Example:
?X:   cc -c +z module_a.c
?X:   cc -c +z module_b.c
?X:   ld -b module_a.o module_b.o -o module.sl
?X:
?MAKE:usedl ld dlsrc cccdlflags lddlflags ccdlflags bin_ELF ld_can_script: \
 rm_try Getfile Myread test osname sed d_dlopen Findhdr Setvar \
 src run cc ccflags ldflags optimize ls gccversion cat rsrc i_stdlib \
 i_unistd osvers sysroot
?MAKE: -pick add $@ %<
?Y:BOTTOM
?S:usedl:
?S: This variable
 indicates if the system supports dynamic
?S: loading of some sort.  See also dlsrc and dlobj.
?S:.
?S:ld:
?S: This variable indicates the program to be used to link
?S: libraries for dynamic loading.  On some systems, it is 'ld'.
?S: On ELF systems, it should be $cc.  Mostly, we'll try to respect
?S: the hint file setting.
?S:.
?S:dlsrc:
?S: This variable contains the name of the dynamic loading file that
?S: will be used with the package.
?S:.
?S:cccdlflags:
?S: This variable contains any special flags that might need to be
?S: passed with 'cc -c' to compile modules to be used to create a shared
?S: library that will be used for dynamic loading.  For hpux, this
?S: should be +z.  It is up to the makefile to use it.
?S:.
?S:lddlflags:
?S: This variable contains any special flags that might need to be
?S: passed to $ld to create a shared library suitable for dynamic
?S: loading.  It is up to the makefile to use it.  For hpux, it
?S: should be '-b'.  For sunos 4.1, it is empty.
?S:.
?S:ccdlflags:
?S: This
```

```
 variable contains any special flags that might need to be
?S: passed to cc to link with a shared library for dynamic loading.
?S: It is up to the makefile to use it.  For sunos 4.1, it should
?S: be empty.
?S:.
?S:bin_ELF:
?S: This variable saves the result from configure if generated binaries
?S: are in ELF format. Only set to defined when the test has actually
?S: been performed, and the result was positive.
?S:.
?S:ld_can_script:
?S: This variable shows if the loader accepts scripts in the form of
?S: -Wl,--version-script=ld.script. This is currently only supported
?S: for GNU ld on ELF in dynamic loading builds.
?S:.
?C:USE_DYNAMIC_LOADING ~ %<:
?C: This symbol, if defined, indicates that dynamic loading of
?C: some sort is available.
?C:.
?H:?%<:#$usedl USE_DYNAMIC_LOADING  /**/
?H:.
?W:%<:dlopen
?T:dldir thisflag tdir
?F:!a.out
: determine which dynamic loading, if any, to compile in
echo " "
dldir="ext/DynaLoader"
case "$usedl" in
   $define|y|true)
 dflt='y'
 usedl="$define"
 ;;
    $undef|n|false)
 dflt='n'
 usedl="$undef"
 ;;
   *)
 dflt='n'
 case "$d_dlopen" in
     $define) dflt='y' ;;
 esac
 : Does a dl_xxx.xs file exist for this operating system
 $test -f $rsrc/$dldir/dl_${osname}.xs && dflt='y'
 ;;
esac
rp="Do you wish to use dynamic loading?"
. ./myread
usedl="$ans"
```

```
bin_ELF="$undef"
case "$ans" in
   y*) usedl="$define"
 case "$dlsrc" in
     ") if $test -f $rsrc/$dldir/dl_${osname}.xs ; then
      dflt="$dldir/dl_${osname}.xs"
  elif $test "$d_dlopen" = "$define" ; then
      dflt="$dldir/dl_dlopen.xs"
  else
      dflt="
  fi
  ;;
     *)  dflt="$dldir/$dlsrc"
  ;;
 esac
 echo "The following dynamic loading files are available:"
 : Can not go over to $dldir because getfile has path hard-coded in.
 tdir=`pwd`; cd "$rsrc"; $ls -C $dldir/dl*.xs; cd "$tdir"
 rp="Source file to use for dynamic loading"
 fn="fne"
 gfpth="$src"
 . ./getfile
 usedl="$define"
 : emulate basename
 dlsrc=`echo $ans | $sed -e 's%.*/\([^/]*\)$%\1%'`

 $cat
 << EOM

Some systems may require passing special flags to $cc -c to
compile modules that will be used to create a shared library.
To use no flags, say "none".

EOM
 case "$cccdlflags" in
     ") case "$gccversion" in
  ") case "$osname" in
   hpux) dflt='+z' ;;
   irix*) dflt='-KPIC' ;;
   svr4*|esix*|solaris|nonstopux) dflt='-KPIC' ;;
   sunos) dflt='-pic' ;;
   *) dflt='none' ;;
      esac
      ;;
  *)  case "$osname" in
   darwin) dflt='none' ;;
   *linux*|svr4*|esix*|solaris|nonstopux) dflt='-fPIC' ;;
   *) dflt='-fpic' ;;
```

```
     esac ;;
 esac ;;
    ' ') dflt='none' ;;
    *)   dflt="$cccdlflags" ;;
esac

case "$dflt" in
    none) dflt=" ;;
esac

# If -Dsysroot was specified, now's the time to add it
# to cccdlflags
if test "X$sysroot" != X; then
    case "$gccversion" in
 ") ;;
 *)  case "$dflt" in
  *sysroot*) ;;
  'undef'|*)
      dflt="$dflt --sysroot=$sysroot" ;;
     esac
     ;;
    esac
fi

case "$dflt" in
    ") dflt='none';;
esac

rp="Any
special flags to pass to $cc -c to compile shared library modules?"
. ./myread
case "$ans" in
?X: Use ' ' so that a subsequent Configure run preserves the old state.
    none) cccdlflags=' ' ;;
    *)    cccdlflags="$ans" ;;
esac

cat << EOM

Some systems use ld to create libraries that can be dynamically loaded,
while other systems (such as those using ELF) use $cc.

EOM

: Determine if this is ELF
 $cat >try.c <<EOM
/* Test for whether ELF binaries are produced */
#include <fcntl.h>
```

```
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_unistd I_UNISTD
#ifdef I_UNISTD
#include <unistd.h>
#endif
int main() {
  char b[4];
  int i = open("a.out",O_RDONLY);
  if(i == -1)
 exit(1); /* fail */
  if(read(i,b,4)==4 && b[0]==127 && b[1]=='E' && b[2]=='L' && b[3]=='F')
 exit(0); /* succeed (yes, it is ELF) */
  exit(1); /* fail */
}
EOM
 if $cc $ccflags $ldflags -o a.out try.c >/dev/null 2>&1 && $run ./a.out; then
    bin_ELF="$define"
 fi
 $rm_try

 case "$ld" in

   ") if $test $bin_ELF = "$define"; then
     cat <<EOM
You appear to have ELF support.  I'll use $cc to build dynamic libraries.
EOM
     dflt="$cc"
  else
     echo "I'll use ld to build dynamic libraries."
     dflt='ld'
  fi
  ;;
    *)  dflt="$ld"
  ;;
 esac

 rp="What command should be used to create dynamic libraries?"
 . ./myread
 ld="$ans"

 cat << EOM

Some systems may require passing special flags to $ld to create a
library that can be dynamically loaded.  If your ld flags include
-L/other/path options to locate libraries outside your loader's normal
```

```
search path, you may need to specify those -L options here as well.  To
use no flags, say "none".

EOM
 case "$lddlflags" in
    ") case "$osname" in
     haiku) dflt='-shared' ;;
     hpux) dflt='-b';
    case "$gccversion" in
        ") dflt="$dflt +vnocompatwarnings" ;;
    esac
    ;;
     *linux*|irix*|gnu*)  dflt="-shared $optimize" ;;
     solaris) # See [perl #66604].
      # On Solaris 11, gcc -m64
 on amd64
      # appears not to understand -G.  gcc versions at
      # least as old as 3.4.3 support -shared, so just
      # use that with Solaris 11 and later, but keep
      # the old behavior for older Solaris versions.
      case "$gccversion" in
   ") dflt='-G' ;;
   *)  case "$osvers" in
    2.?|2.10) dflt='-G' ;;
    *) dflt='-shared' ;;
       esac
       ;;
      esac
      ;;
     sunos) dflt='-assert nodefinitions' ;;
     svr4*|esix*|nonstopux) dflt="-G $ldflags" ;;
     *)     dflt='none' ;;
 esac
 ;;
    *) dflt="$lddlflags" ;;
esac

: Only do this for gcc, since, for example, qcc has no concept
: of --sysroot.
if $test "X$sysroot" != X; then
    case "$gccversion" in
 ") ;;
 *)  dflt="$dflt --sysroot=$sysroot" ;;
    esac
fi

: Try to guess additional flags to pick up local libraries.
: Be careful not to append to a plain 'none'
```

```
case "$dflt" in
    none) dflt=" ;;
esac
for thisflag in $ldflags; do
    case "$thisflag" in
 -L*|-R*|-Wl,-R*)

   case " $dflt " in
  *" $thisflag "*) ;;
  *) dflt="$dflt $thisflag" ;;
     esac
     ;;
    esac
done

case "$dflt" in
    "|' ') dflt='none' ;;
esac

case "$ldflags" in
    *-fstack-protector-strong*)
 case "$dflt" in
     *-fstack-protector-strong*) ;; # Don't add it again
     *) dflt="$dflt -fstack-protector-strong" ;;
 esac
 ;;
    *-fstack-protector*)
 case "$dflt" in
     *-fstack-protector*) ;; # Don't add it again
     *) dflt="$dflt -fstack-protector" ;;
 esac
 ;;
esac

rp="Any special flags to pass to $ld to create a dynamically loaded library?"
. ./myread
case "$ans" in
?X: Use ' ' so that a subsequent Configure run preserves the old state.
    none) lddlflags=' ' ;;
    *) lddlflags="$ans" ;;
esac

cat <<EOM

Some systems may require passing special flags to $cc to indicate that
the resulting executable will use dynamic linking.  To use no flags,
say "none".
```

```
EOM
 case "$ccdlflags" in
    ") case "$osname" in
     *linux*|hpux|gnu*)
 dflt='-Wl,-E' ;;
     sunos)            dflt='none'   ;;
     *)                dflt='none'   ;;
  esac ;;
    ' ') dflt='none' ;;
    *)   dflt="$ccdlflags" ;;
 esac
 rp="Any special flags to pass to $cc to use dynamic linking?"
 . ./myread
 case "$ans" in
?X: Use ' ' so that a subsequent Configure run preserves the old state.
    none) ccdlflags=' ' ;;
    *)    ccdlflags="$ans" ;;
 esac
 ;;
?X: End of usedl=y section

   *)  usedl="$undef"
 ld='ld'
 dlsrc='dl_none.xs'
 lddlflags=''
 ccdlflags=''
 ;;
esac

ld_can_script="$undef"
case "$bin_ELF$usedl" in
   $define$define)
 # Abuse try.h and a.out names for neat cleanup
 $cat >try.c <<EOM
void foo() {}
void bar() {}
EOM
 $cat >try.h <<EOM
LIBTEST_42 {
global:
 foo;
local: *;
};
EOM
 if $cc $cccdlflags $ccdlflags $ccflags \
        $ldflags $lddlflags -o a.out try.c \
        -Wl,--version-script=try.h >/dev/null 2>&1 \
    &&  $test -s a.out ; then
```

```
    echo "ld supports scripting" >&4
    ld_can_script="$define"
 else

   echo "ld does not support scripting" >&4
 fi
 $rm_try
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/dlsrc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_machcthr: Inhdr usethreads
?MAKE: -pick add $@ %<
?S:i_machcthr:
?S: This variable conditionally defines the I_MACH_CTHREADS symbol,
?S: and indicates whether a C program should include <mach/cthreads.h>.
?S:.
?C:I_MACH_CTHREADS:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <mach/cthreads.h>.
?C:.
?H:#$i_machcthr   I_MACH_CTHREADS /**/
?H:.
: see if mach cthreads are available
if test "X$usethreads" = "X$define"; then
 set mach/cthreads.h i_machcthr
 eval $inhdr
else
 i_machcthr="$undef"
fi
```

Found
 in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/threads/i_machcthr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_NeWS.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_NeWS.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_news d_news0 d_newshome d_textcan: test rm Myread Getfile
?MAKE: -pick add $@ %<
?S:d_news:
?S: Set if running NeWS 1.1
?S:.
?S:d_news0:
?S: Set if running NeWS 1.0
?S:.
?S:d_newshome:
?S: Path to the top directory of the NeWS structure.
?S:.
?S:d_textcan:
?S: Path to where the textcan.ps stuff is...
?S:.
?C:HAS_NEWS1_1 (NEWS1_1):
?C: This
 symbol defined if running NeWS 1.1.
?C:.
?C:HAS_NEWS1_0 (NEWS1_0):
?C: This symbol defined if running NeWS 1.0.
?C:.
?C:TEXTCAN:
?C: Tells path to where the textcan.ps stuff is...
?C:.
?H:#$d_news HAS_NEWS1_1     /**/
?H:#$d_news0 HAS_NEWS1_0     /**/
?H:#define TEXTCAN $d_textcan /**/
?H:.
?INIT:: default path for NeWS
?INIT:d_newshome="/usr/NeWS"
?INIT:
```

```
: Check to see what version of NeWS is being run?
cd ..
echo " "
echo "Now for the interesting stuff... Lets see what kind of NeWS"
echo "they grow round here...."
echo " "
dflt='y'
if $test -d $d_newshome; then
 d_newshome=`(cd $d_newshome ; /bin/pwd)`
 echo "Ah...found myself a NeWS in $d_newshome..."
 dflt='y'
 rp="Is this the NeWS you want your children to grow up with?"
 . UU/myread
fi
while $test $ans = "n"; do
dflt=$d_newshome
fn=d
rp="Path to NeWS you want:"
. UU/getfile
d_newshome=$ans

echo " "
if $test ! -d $d_newshome/lib; then
 echo "ARG!  No lib directory in $d_newshome!!!"
 : heavy medicine.  I wonder what the disease
 is...
 $rm -f kit*isdone
 $rm -rf UU
 : bye bye
 set -t; echo "Sorry... no NeWS is bad news..."
fi

if $test -r $d_newshome/lib/NeWS/colors.ps ; then
 echo 'Ahh... your running NeWS 1.1!  Boy... that makes stuff easy....'
 echo " "
 d_news="$define"
 d_news0="$undef"
 if $test -r $d_newshome/lib/NeWS/textcan.ps; then
  d_textcan=$d_newshome/lib/NeWS
  echo "The textcan.ps stuff seems to be in : $d_textcan"
 else
  d_textcan=$d_newshome/clientsrc/client/nterm
  if $test ! -r $d_textcan/textcan.ps; then
   d_news="$undef"
   d_news0="$define"
   echo 'Hmm... must have been fooled... gotta be NeWS 1.1 beta!'
  else
   echo "The textcan.ps stuff seems to be in : $d_textcan"
```

```
  fi
 fi
else
 echo 'snif... snif... I smell the dilapidated smell of NeWS 1.0..'
 echo 'Some things will not work under NeWS 1.0...'
 d_news="$undef"
 d_news0="$define"
fi
cd UU
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_NeWS.U
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```
?RCS: $Id: d_nice.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_nice.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:09:48  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_nice: Inlibc
?MAKE: -pick add $@ %<
?S:d_nice:
?S: This variable conditionally defines the HAS_NICE symbol, which
?S: indicates to the C program that the nice() routine is available.
?S:.
?C:HAS_NICE :
?C: This symbol, if defined, indicates that the nice routine is
?C: available.
?C:.
?H:#$d_nice
 HAS_NICE  /**/
?H:.
?LINT:set d_nice
: see if nice exists
set nice d_nice
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_nice.U
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```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_mmap mmaptype: Inlibc i_sysmman cat cc ccflags
?MAKE: -pick add $@ %<
?S:d_mmap:
?S: This variable conditionally defines HAS_MMAP if mmap() is
?S: available to map a file into memory.
?S:.
?S:mmaptype:
?S: This symbol contains the type of pointer returned by mmap()
?S: (and simultaneously the type of the first argument).
?S: It can be 'void *' or 'caddr_t'.
?S:.
?C:HAS_MMAP:
?C: This symbol, if defined, indicates that the mmap system call is
?C: available to map a file into memory.
?C:.
?C:Mmap_t:
?C: This symbol
 holds the return type of the mmap() system call
?C: (and simultaneously the type of the first argument).
?C: Usually set to 'void *' or 'caddr_t'.
?C:.
?H:#$d_mmap HAS_MMAP  /**/
?H:#define Mmap_t $mmaptype /**/
?H:.
?LINT:set d_mmap
: see if mmap exists
set mmap d_mmap
eval $inlibc
: see what shmat returns
: default to something harmless
mmaptype='void *'
case "$i_sysmman$d_mmap" in
```

```
"$define$define")
 $cat >mmap.c <<'END'
#include <sys/mman.h>
void *mmap();
END
 if $cc $ccflags -c mmap.c >/dev/null 2>&1; then
  mmaptype='void *'
 else
  mmaptype='caddr_t'
 fi
 echo "and it returns ($mmaptype)." >&4
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_mmap.U
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```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_statvfs d_fstatvfs: Inlibc
?MAKE: -pick add $@ %<
?S:d_statvfs:
?S: This variable conditionally defines the HAS_STATVFS symbol, which
?S: indicates to the C program that the statvfs() routine is available.
?S:.
?S:d_fstatvfs:
?S: This variable conditionally defines the HAS_FSTATVFS symbol, which
?S: indicates to the C program that the fstatvfs() routine is available.
?S:.
?C:HAS_STATVFS:
?C: This symbol, if defined, indicates that the statvfs routine is
?C: available to stat filesystems by filenames.
?C:.
?C:HAS_FSTATVFS:
?C: This symbol, if defined, indicates that the fstatvfs routine is
?C: available to stat filesystems by file descriptors.
?C:.
?H:#$d_statvfs HAS_STATVFS  /**/
?H:#$d_fstatvfs
 HAS_FSTATVFS  /**/
?H:.
```

```
?LINT:set d_statvfs
?LINT:set d_fstatvfs
: see if statvfs exists
set statvfs d_statvfs
eval $inlibc

: see if fstatvfs exists
set fstatvfs d_fstatvfs
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_statvfs.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Thomas Neumann <tom@smart.bo.open.de>
?RCS:
?RCS: $Log: Findhdr.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  15:53:08  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:03:56  ram
?RCS: patch23: cppminus must be after other cppflags, not before
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a findhdr script which is used to locate the header
?X: files
 in $usrinc or other stranger places using cpp capabilities. The
?X: script is given an include file base name, like 'stdio.h' or 'sys/file.h'
?X: and it returns the full path of the include file and a zero status or an
?X: empty string with an error status if the file could not be located.
?X:
?MAKE:Findhdr: grep test tr rm +usrinc awk cat startsh \
 cppstdin cppminus +cppflags eunicefix osname
?MAKE: -pick add $@ %<
```

```
?LINT:define fieldn
?S:fieldn:
?S: This variable is used internally by Configure. It contains the position
?S: of the included file name in cpp output. That is to say, when cpp
?S: pre-processes a #include <file> line, it replaces it by a # line which
?S: contains the original position in the input file and the full name of
?S: included file, between "quotes".
?S:.
?V:fieldn
?F:./findhdr !fieldn
?T:cline pos wanted name awkprg cppfilter testaccess status usrincdir
: determine filename position in cpp output
echo " "
echo "Computing filename position in cpp output for #include
 directives..." >&4
echo '#include <stdio.h>' > foo.c
case "$osname" in
vos)
 testaccess=-e
?X: VOS: path component separator is >
 cppfilter="tr '\\\\>' '/' |"
 ;;
*)
 testaccess=-r
 cppfilter="
 ;;
esac
$cat >fieldn <<EOF
$startsh
$cppstdin $cppflags $cppminus <foo.c 2>/dev/null | \
$grep '^[  ]*#.*stdio\.h' | \
while read cline; do
 pos=1
 set \$cline
 while $test \$# -gt 0; do
  if $test $testaccess \`echo \$1 | $tr -d ""\`; then
   echo "\$pos"
   exit 0
  fi
  shift
  pos=\`expr \$pos + 1\`
 done
done
EOF
chmod +x fieldn
fieldn=`./fieldn`
$rm -f foo.c fieldn
case $fieldn in
```

```
") pos='???';;
1) pos=first;;
2) pos=second;;
3) pos=third;;
*) pos="${fieldn}th";;
esac
echo "Your cpp writes the filename in the $pos field of the line."

?X: To locate a header file, we cannot simply check for $usrinc/file.h, since
?X: some machine have the headers in weird places and our only hope is that
?X: the C pre-processor will know how to find those headers. Thank you NexT!
: locate header file
$cat
 >findhdr <<EOF
$startsh
wanted=\$1
name=''
for usrincdir in $usrinc; do
 if test -f \$usrincdir/\$wanted; then
  echo "\$usrincdir/\$wanted"
  exit 0
 fi
done
awkprg='{ print \$$fieldn }'
echo "#include <\$wanted>" > foo\$\$.c
$cppstdin $cppminus $cppflags < foo\$\$.c 2>/dev/null | \
$cppfilter $grep "^[  ]*#.*\$wanted" | \
while read cline; do
 name=\`echo \$cline | $awk "\$awkprg" | $tr -d '"'\`
 case "\$name" in
 *[/\\\\]\$wanted) echo "\$name"; exit 1;;
 *[\\\\/]\$wanted) echo "\$name"; exit 1;;
 *) exit 2;;
 esac
done
?X: status = 0: grep returned 0 lines, case statement not executed
?X: status = 1: headerfile found
?X: status = 2: while loop executed, no headerfile found
status=\$?
$rm -f foo\$\$.c
if test \$status -eq 1; then
 exit 0
fi
exit 1
EOF
chmod +x findhdr
$eunicefix findhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Findhdr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sitearch.U,v 3.1 1999/07/08 18:32:29 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
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?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sitearch.U,v $
?RCS: Revision 3.1  1999/07/08 18:32:29  doughera
?RCS: Updated for perl5.005_5x
?RCS:
?RCS: Revision 3.0.1.1  1997/02/28  16:21:30  ram
?RCS: patch61: created
?RCS:
?MAKE:sitearch sitearchexp installsitearch d_sitearch: cat sed Getfile \
 Oldconfig Setprefixvar Prefixit test archname sitelib
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitearch="
?S:sitearch:
?S: This variable contains the eventual
 value of the SITEARCH symbol,
?S: which is the name of the private library for this package.  It may
?S: have a ~ on the front. It is up to the makefile to eventually create
?S: this directory while performing installation (with ~ substitution).
?S: The standard distribution will put nothing in this directory.
?S: After perl has been installed, users may install their own local
?S: architecture-dependent modules in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitearchexp="
?S:sitearchexp:
?S: This variable is the ~name expanded version of sitearch, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installsitearch="
?S:installsitearch:
?S: This variable is really the same as sitearchexp but may differ on
```

```
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?D:d_sitearch="
?S:d_sitearch:
?S: This variable conditionally defines SITEARCH to hold the
 pathname
?S: of architecture-dependent library files for $package.  If
?S: $sitearch is the same as $archlib, then this is set to undef.
?S:.
?C:SITEARCH:
?C: This symbol contains the name of the private library for this package.
?C: The library is private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.  The program
?C: should be prepared to do ~ expansion.
?C: The standard distribution will put nothing in this directory.
?C: After perl has been installed, users may install their own local
?C: architecture-dependent modules in this directory with
?C:  MakeMaker Makefile.PL
?C: or equivalent.  See INSTALL for details.
?C:.
?C:SITEARCH_EXP:
?C: This symbol contains the ~name expanded version of SITEARCH, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#$d_sitearch SITEARCH "$sitearch"  /**/
?H:#$d_sitearch SITEARCH_EXP "$sitearchexp"  /**/
?H:.
?LINT:change prefixvar
?LINT:set installsitearch
?LINT:set
 sitearch
?LINT:set sitearchexp
: determine where site specific architecture-dependent libraries go.
: sitelib  default is /usr/local/lib/perl5/site_perl/$version
: sitearch default is /usr/local/lib/perl5/site_perl/$version/$archname
: sitelib may have an optional trailing /share.
case "$sitearch" in
") dflt=`echo $sitelib | $sed 's,/share$,,'`
 dflt="$dflt/$archname"
 ;;
*) dflt="$sitearch"
 ;;
esac
set sitearch sitearch none
eval $prefixit
$cat <<EOM
```

```
The installation process will also create a directory for
architecture-dependent site-specific extensions and modules.

EOM
fn=d~+
rp='Pathname for the site-specific architecture-dependent library files?'
. ./getfile
prefixvar=sitearch
. ./setprefixvar
if $test X"$sitearch" = X"$sitelib"; then
 d_sitearch="$undef"
else
 d_sitearch="$define"
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/sitearch.U
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```
?RCS: $Id: d_setpgid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setpgid.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:41:49  ram
?RCS: patch61: reworded symbol comments
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:06:40  ram
?RCS: patch16: created
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setpgid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setpgid:
?S: This variable conditionally defines the HAS_SETPGID symbol if the
?S: setpgid(pid, gpid) function is
 available to set process group ID.
?S:.
?C:HAS_SETPGID:
```

```
?C: This symbol, if defined, indicates that the setpgid(pid, gpid)
?C: routine is available to set process group ID.
?C:.
?H:#$d_setpgid HAS_SETPGID /**/
?H:.
?LINT:set d_setpgid
: see if setpgid exists
set setpgid d_setpgid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setpgid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_asctime_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_asctime_r asctime_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_time i_systime extern_C
?MAKE: -pick add $@ %<
?S:d_asctime_r:
?S: This variable conditionally defines the HAS_ASCTIME_R symbol,
?S: which indicates to the C program that the asctime_r()
?S: routine is available.
?S:.
?S:asctime_r_proto:
?S: This variable encodes the prototype of asctime_r.
?S: It is zero if d_asctime_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_asctime_r
?S: is defined.
?S:.
?C:HAS_ASCTIME_R:
?C: This symbol, if defined, indicates that the asctime_r routine
?C: is available to asctime
 re-entrantly.
?C:.
?C:ASCTIME_R_PROTO:
?C: This symbol encodes the prototype of asctime_r.
?C: It is zero if d_asctime_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_asctime_r
?C: is defined.
?C:.
```

```
?H:#$d_asctime_r HAS_ASCTIME_R /**/
?H:#define ASCTIME_R_PROTO $asctime_r_proto /**/
?H:.
?T:try hdrs d_asctime_r_proto
: see if asctime_r exists
set asctime_r d_asctime_r
eval $inlibc
case "$d_asctime_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_time time.h $i_systime sys/time.h"
 case "$d_asctime_r_proto:$usethreads" in
 ":define") d_asctime_r_proto=define
  set d_asctime_r_proto asctime_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_asctime_r_proto" in
 define)
 case "$asctime_r_proto" in
 "|0) try='char* asctime_r(const struct tm*, char*);'
 ./protochk "$extern_C $try" $hdrs && asctime_r_proto=B_SB ;;
 esac
 case "$asctime_r_proto" in
 "|0) try='char* asctime_r(const struct tm*, char*, int);'
 ./protochk "$extern_C $try" $hdrs
 && asctime_r_proto=B_SBI ;;
 esac
 case "$asctime_r_proto" in
 "|0) try='int asctime_r(const struct tm*, char*);'
 ./protochk "$extern_C $try" $hdrs && asctime_r_proto=I_SB ;;
 esac
 case "$asctime_r_proto" in
 "|0) try='int asctime_r(const struct tm*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && asctime_r_proto=I_SBI ;;
 esac
 case "$asctime_r_proto" in
 "|0) d_asctime_r=undef
  asctime_r_proto=0
  echo "Disabling asctime_r, cannot determine prototype." >&4 ;;
 * ) case "$asctime_r_proto" in
  REENTRANT_PROTO*) ;;
  *) asctime_r_proto="REENTRANT_PROTO_$asctime_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "asctime_r has no prototype, not using it." >&4 ;;
```

```
  esac
  d_asctime_r=undef
  asctime_r_proto=0
  ;;
 esac
 ;;
*) asctime_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_asctime_r.U
No license file was found, but licenses were detected in source scan.

```
case $CONFIG in
")
 if test -f config.sh; then TOP=.;
 elif test -f ../config.sh; then TOP=..;
 elif test -f ../../config.sh; then TOP=../..;
 elif test -f ../../../config.sh; then TOP=../../..;
 elif test -f ../../../../config.sh; then TOP=../../../..;
 else
  echo "Can't find config.sh."; exit 1
 fi
 . $TOP/config.sh
 ;;
esac
case "$0" in
*/*) cd `expr X$0 : 'X\(.*\)/'` ;;
esac
echo "Extracting makedepend (with variable substitutions)"
$spitshell >makedepend <<!GROK!THIS!
$startsh
# $Id: makedepend.sh,v 3.0.1.1 1994/01/24 14:00:05 ram Exp ram $
#
#  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
#
#  You may redistribute only under the terms of the Artistic Licence,
#  as specified in the README file that comes with the distribution.
#  You may reuse parts of this distribution only within the terms of
#  that same Artistic Licence; a copy of which may be found at the root
#  of the source tree for dist 4.0.
#
#
 Original Author: Larry Wall <lwall@netlabs.com>
#
# $Log: makedepend.sh,v $
```

```
# Revision 3.0.1.1  1994/01/24  14:00:05  ram
# patch16: changed top ln-style config.sh lookup into test-style one
#
# Revision 3.0  1993/08/18  12:04:37  ram
# Baseline for dist 3.0 netwide release.
#

export PATH || (echo "OOPS, this isn't sh.  Desperation time.  I will feed myself to sh."; sh \$0; kill \$\$)

cat='$cat'
cppflags='$cppflags'
cp='$cp'
cpp='$cppstdin'
echo='$echo'
egrep='$egrep'
expr='$expr'
mv='$mv'
rm='$rm'
sed='$sed'
sort='$sort'
test='$test'
tr='$tr'
uniq='$uniq'
!GROK!THIS!

$spitshell >>makedepend <<'!NO!SUBS!'

$cat /dev/null >.deptmp
$rm -f *.c.c c/*.c.c
if test -f Makefile; then
   mf=Makefile
else
   mf=makefile
fi
if test -f $mf; then
   defrule=`<$mf sed -n  \
 -e '/^\.c\.o:.*;/{'  \
 -e    's/\$\*\.c//'  \
 -e    's/^[^;]*;[  ]*//p' \
 -e    q    \
 -e '}'    \
 -e '/^\.c\.o: *$/{'  \
 -e    N    \
 -e    's/\$\*\.c//'  \
 -e    's/^.*\n[  ]*//p'  \
 -e    q    \
 -e '}'`
fi
```

```
case
 "$defrule" in
") defrule='$(CC) -c $(CFLAGS)' ;;
esac

make clist || ($echo "Searching for .c files..."; \
 $echo *.c | $tr ' ' '\012' | $egrep -v '\*' >.clist)
gotnone=true
for file in `$cat .clist`; do
# for file in `cat /dev/null`; do
   case "$file" in
   *.c) filebase=`basename $file .c` ;;
   *.y) filebase=`basename $file .c` ;;
   ")  continue ;;
   esac
   gotnone=false
   $echo "Finding dependencies for $filebase.o."
   $sed -n <$file >$file.c \
 -e "/^${filebase}_init(/q" \
 -e '/^#/{' \
 -e 's|/\*.*$||' \
 -e 's|\\$||' \
 -e p \
 -e '}'
   $cpp -I/usr/local/include -I. $cppflags $file.c | \
   $sed \
 -e '/^# *[0-9]/!d' \
 -e 's/^.*"\(.*\)".*$/'$filebase'.o: \1/' \
 -e 's|: \./|: |' \
 -e 's|\.c\.c|.c|' | \
   $uniq | $sort | $uniq >> .deptmp
done

$sed <Makefile >Makefile.new -e '1,/^# AUTOMATICALLY/!d'

make shlist || ($echo "Searching for .SH files..."; \
 $echo *.SH | $tr ' ' '\012' | $egrep -v '\*' >.shlist)
if $gotnone || $test -s .deptmp; then

  for file in `cat .shlist`; do
 $echo `$expr X$file : 'X\(.*\).SH`: $file config.sh \; \
     /bin/sh $file >> .deptmp
   done
   $echo "Updating Makefile..."
   $echo "# If this runs make out of memory, delete /usr/include lines." \
 >> Makefile.new
   $sed 's|^\(.*\.o:\) *\(.*/.*\.c\) *$|\1 \2; '"$defrule \2|" .deptmp \
      >>Makefile.new
```

```
else
   make hlist || ($echo "Searching for .h files..."; \
 $echo *.h | $tr ' ' '\012' | $egrep -v '\*' >.hlist)
   $echo "You don't seem to have a proper C preprocessor.  Using grep instead."
   $egrep '^#include ' `cat .clist` `cat .hlist`  >.deptmp
   $echo "Updating Makefile..."
   <.clist $sed -n       \
 -e '/\//{'       \
 -e   's|^\(.*\)/\(.*\)\.c|\2.o: \1/\2.c; "'$defrule \1/\2.c|p" \
 -e   d        \
 -e '}'        \
 -e 's|^\(.*\)\.c|\1.o: \1.c|p' >> Makefile.new
   <.hlist $sed -n 's|\(.*/\)\(.*\)|s= \2= \1\2=|p' >.hsed
   <.deptmp $sed -n 's|c:#include "\(.*\)".*$|o: \1|p' | \
      $sed 's|^[^;]*/||' | \
      $sed -f
 .hsed >> Makefile.new
   <.deptmp $sed -n 's|c:#include <\(.*\)>.*$|o: /usr/include/\1|p' \
      >> Makefile.new
   <.deptmp $sed -n 's|h:#include "\(.*\)".*$|h: \1|p' | \
      $sed -f .hsed >> Makefile.new
   <.deptmp $sed -n 's|h:#include <\(.*\)>.*$|h: /usr/include/\1|p' \
      >> Makefile.new
   for file in `$cat .shlist`; do
 $echo `$expr X$file : 'X\(.*\).SH`: $file config.sh \; \
     /bin/sh $file >> Makefile.new
   done
fi
$rm -f Makefile.old
$cp Makefile Makefile.old
$cp Makefile.new Makefile
$rm Makefile.new
$echo "# WARNING: Put nothing here or make depend will gobble it up!" >> Makefile
$rm -f .deptmp `sed 's/\.c/.c.c/' .clist` .shlist .clist .hlist .hsed

!NO!SUBS!
$eunicefix makedepend
chmod +x makedepend
case `pwd` in
*SH)
   $rm -f ../makedepend
   ln makedepend ../makedepend
   ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/lib/makedepend.SH

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Chk_MANI.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Chk_MANI.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  14:57:25  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/31  09:33:14  ram
?RCS: patch44: now lists Begin instead of Myinit in its dependencies
?RCS: patch44: leading comment now explains how this unit is included
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit checks the package by making sure
 every file listed in MANIFEST
?X: is present. It is systematically "included" via the Finish unit (which
?X: is always present in every Configure script), although it may result in
?X: an empty inclusion when no MANIFEST is present.
?X:
?MAKE:Chk_MANI: Begin c n rsrc
?MAKE: -pick wipe $@ %<
?T:filelist ans tmppwd
?X: This check happens at metaconfig-time, so it's ok to hard-code the path.
@if {test -f ../MANIFEST}
: Now test for existence of everything in MANIFEST
echo " "
if test -f "$rsrc/MANIFEST"; then
 echo "First let's make sure your kit is complete.  Checking..." >&4
?X:
?X: Files spelled uppercased and beginning with PACK are produced by the
?X: shell archive builder and may be removed by the user. Usually, they are
?X: not listed in the MANIFEST file, but you never know...
?X:
?X: "split -l" is the new way of running a split, but we also try the older way
?X:
 awk '$1 !~ /PACK[A-Z]+/ {print $1}' "$rsrc/MANIFEST" | \
  (split -l 50 2>/dev/null || split -50)
```

```
 rm -f missing
 tmppwd=`pwd`
 for
 filelist in x??; do
  (cd "$rsrc"; ls `cat "$tmppwd/$filelist"` \
   >/dev/null 2>>"$tmppwd/missing")
 done
 if test -s missing; then
  cat missing >&4
  cat >&4 <<'EOM'

THIS PACKAGE SEEMS TO BE INCOMPLETE.

You have the option of continuing the configuration process, despite the
distinct possibility that your kit is damaged, by typing 'y'es.  If you
do, don't blame me if something goes wrong.  I advise you to type 'n'o
and contact the author (<MAINTLOC>).

EOM
?X: Can't use $echo at this early stage
  echo $n "Continue? [n] $c" >&4
  read ans
  case "$ans" in
  y*)
   echo "Continuing..." >&4
   rm -f missing
   ;;
  *)
?X:
?X: Use kill and not exit, so that the trap gets executed to clean up
?X:
   echo "ABORTING..." >&4
   kill $$
   ;;
  esac
 else
  echo "Looks good..."
 fi
else
 echo "There is no MANIFEST file.  I hope your kit is complete !"
fi
rm -f missing x??

@end
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Chk_MANI.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: ccflags.U,v 3.0.1.9 1997/02/28 15:27:07 ram Exp $
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: ccflags.U,v $
?RCS: Revision 3.0.1.9  1997/02/28  15:27:07  ram
?RCS: patch61: removed support for NO_PROTOTYPE detection on SCO
?RCS: patch61: new locincpth variable
?RCS: patch61: added info on the "additional ld flags" question
?RCS:
?RCS: Revision 3.0.1.8  1995/07/25  13:48:54  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.7  1995/05/12  12:08:33  ram
?RCS: patch54: now checks for cc/ccflags/ldflags
 coherency
?RCS:
?RCS: Revision 3.0.1.6  1994/10/29  16:07:02  ram
?RCS: patch36: gcc versioning no longer relies on the C compiler's name
?RCS: patch36: simplified check for gcc version checking (ADO)
?RCS:
?RCS: Revision 3.0.1.5  1994/08/29  16:06:35  ram
?RCS: patch32: propagate -posix flag from ccflags to ldflags
?RCS:
?RCS: Revision 3.0.1.4  1994/05/06  14:28:45  ram
?RCS: patch23: -fpcc-struct-return only needed in gcc 1.x (ADO)
?RCS: patch23: cppflags now computed on an option-by-option basis
?RCS: patch23: magically added cc flags now only done the first time
?RCS:
?RCS: Revision 3.0.1.3  1993/09/13  15:58:29  ram
?RCS: patch10: explicitly mention -DDEBUG just in case they need it (WAD)
?RCS: patch10: removed all the "tans" variable usage (WAD)
?RCS:
?RCS: Revision 3.0.1.2  1993/08/27  14:39:38  ram
?RCS: patch7: added support for OSF/1 machines
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:00:24  ram
?RCS: patch6: added defaults for cppflags, ccflags and ldflags
?RCS:
?RCS:
```

```
 Revision 3.0  1993/08/18  12:05:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:ccflags ldflags lkflags cppflags optimize locincpth: test cat \
 Myread Guess Options Oldconfig +gccversion mips_type +usrinc \
 package contains rm +cc cppstdin cppminus cpprun cpplast libpth \
 libs loclibpth hint usesocks sh run rm_try sysroot
?MAKE: -pick add $@ %<
?S:ccflags:
?S: This variable contains any additional C compiler flags desired by
?S: the user.  It is up to the Makefile to use this.
?S:.
?S:cppflags:
?S: This variable holds the flags that will be passed to the C pre-
?S: processor. It is up to the Makefile to use it.
?S:.
?S:optimize:
?S: This variable contains any optimizer/debugger flag that should be used.
?S: It is up to the Makefile to use it.
?S:.
?S:ldflags:
?S: This variable contains any additional C loader flags desired by
?S: the user.  It is up to the Makefile to use this.
?S:.
?S:lkflags:
?S: This variable contains any additional C partial linker flags desired
 by
?S: the user.  It is up to the Makefile to use this.
?S:.
?S:locincpth:
?S: This variable contains a list of additional directories to be
?S: searched by the compiler.  The appropriate '-I' directives will
?S: be added to ccflags.  This is intended to simplify setting
?S: local directories from the Configure command line.
?S: It's not much, but it parallels the loclibpth stuff in libpth.U.
?S:.
?T:inctest thisincl xxx inclwanted ftry previous thislibdir
?T:EBUGGING DEBUGGING
?T:check flag callback checkccflag
?F:!cpp.c !gcctest !try
?D:cppflags=''
?D:ccflags=''
?D:ldflags=''
?D:optimize=''
?LINT:extern _sysroot
?INIT:: Possible local include directories to search.
?INIT:: Set locincpth to '' in a hint file to defeat local include searches.
?INIT:locincpth="/usr/local/include /opt/local/include /usr/gnu/include"
```

```
?INIT:locincpth="$locincpth /opt/gnu/include /usr/GNU/include /opt/GNU/include"
?INIT::
?INIT:: no include file wanted by default
?INIT:inclwanted="
?INIT:
?INIT:: Enable
 -DEBUGGING and -DDEBUGGING from the command line
?INIT:EBUGGING="
?INIT:DEBUGGING="
?INIT:
: determine optimization, if desired, or use for debug flag also
?X: Allow for Configure -Uoptimize -- it's not strictly sensible, but
?X: it has happened and we know what they mean.   AD  2/16/98
case "$optimize" in
' '|$undef) dflt='none';;
") dflt='-O';;
*) dflt="$optimize";;
esac
$cat <<EOH

By default, $package compiles with the -O flag to use the optimizer.
Alternately, you might want to use the symbolic debugger, which uses
the -g flag (on traditional Unix systems).  Either flag can be
specified here.  To use neither flag, specify the word "none".

EOH
rp="What optimizer/debugger flag should be used?"
. ./myread
optimize="$ans"
case "$optimize" in
'none') optimize=" ";;
esac

: Check what DEBUGGING is required from the command line
: -DEBUGGING      or -DDEBUGGING or
: -DEBUGGING=both   = -g + -DDEBUGGING
: -DEBUGGING=-g   or -Doptimize=-g = -g
: -DEBUGGING=none or -UDEBUGGING =
: -DEBUGGING=old
  or -DEBUGGING=default = ? $optimize
case "$EBUGGING" in
") ;;
*) DEBUGGING=$EBUGGING ;;
esac

case "$DEBUGGING" in
-g|both|$define)
   case "$optimize" in
```

```
 *-g*) ;;
 *)    optimize="$optimize -g" ;;
   esac ;;
none|$undef)
   case "$optimize" in
 *-g*) set `echo "X $optimize " | sed 's/ -g / /'`
  shift
  optimize="$*"
  ;;
   esac ;;
esac

dflt=''
case "$DEBUGGING" in
both|$define) dflt='-DDEBUGGING'
esac

: argument order is deliberate, as the flag will start with - which set could
: think is an option
checkccflag='check=$1; flag=$2; callback=$3;
echo " ";
echo "Checking if your compiler accepts $flag" >&4;
[ "X$sysroot" != "X" ] && echo "For sysroot = $sysroot";
echo "int main(void) { return 0; }" > gcctest.c;
if $cc $_sysroot -O2 $flag -o gcctest gcctest.c 2>gcctest.out && $run ./gcctest; then
   echo "Yes, it does." >&4;
   if $test -s gcctest.out ; then
       echo "But your platform does not like it:";
       cat gcctest.out;
   else
 case "$ccflags" in
 *$check*)

    echo "Leaving current flags $ccflags alone." >&4
     ;;
 *) dflt="$dflt $flag";
     eval $callback
     ;;
 esac
   fi
else
   echo "Nope, it does not, but that is ok." >&4;
fi
'

: We will not override a previous value, but we might want to
: augment a hint file
case "$hint" in
```

```
default|recommended)
 case "$gccversion" in
 1.*) dflt="$dflt -fpcc-struct-return" ;;
 esac
 case "$optimize:$DEBUGGING" in
 *-g*:old) dflt="$dflt -DDEBUGGING";;
 esac
?X: check for POSIXized ISC
 case "$gccversion" in
 2.*) if $test -d /etc/conf/kconfig.d &&
   $contains _POSIX_VERSION $usrinc/sys/unistd.h >/dev/null 2>&1
  then
   # Interactive Systems (ISC) POSIX mode.
   dflt="$dflt -posix"
  fi
  ;;
 esac
?X: If the user has gcc-2.95 or greater, try adding -fno-strict-alias.
?X: Since the gcc "version" can be non-numeric, e.g.
?X: "2.95.1 19990809 (prerelease)" , we'll do the test on any version
?X: greater than 2.8.
?X: --Andy Dougherty  27 Aug 1999
 case "$gccversion" in
 1.*) ;;
 2.[0-8]*)
 ;;
 ?*) set strict-aliasing -fno-strict-aliasing
  eval $checkccflag
  ;;
 esac
?X: HMB 200405
?X: -pipe has shown a compile time speedup of about 40% on Linux and HP-UX
?X: and also worked on cygwin-1.5.9
?X: If a system fails, disable it in the hints. 99% of gcc uses binutils
 # For gcc, adding -pipe speeds up compilations for some, but apparently
 # some assemblers can't read from stdin.  (It also slows down compilations
 # in other cases, but those are apparently rarer these days.)  AD 5/2004.
 case "$gccversion" in
 ?*) set pipe -pipe
  eval $checkccflag
  ;;
 esac

?X: NWC 200712
 # on x86_64 (at least) we require an extra library (libssp) in the
 # link command line. This library is not named, so I infer that it is
 # an implementation detail that may change. Hence the safest approach
 # is to add the flag to the flags passed to the compiler at link time,
```

```
 # as that way the compiler can do the right implementation dependant
 # thing. (NWC)
 case "$ccflags" in
 *-fno-stack-protector*)

    echo "Do not add -fstack-protector nor -fstack-protector-strong" 2>&1
     ;;
 *) case "$gccversion" in
    ?*) set stack-protector-strong -fstack-protector-strong
  eval $checkccflag
  case "$dflt" in
  *-fstack-protector-strong*) ;; # It got added.
  *) # Try the plain/older -fstack-protector.
     set stack-protector -fstack-protector
     eval $checkccflag
     ;;
  esac
  ;;
     esac
     ;;
 esac
esac

?X: In USG mode, a MIPS system may need some BSD includes
case "$mips_type" in
*BSD*|") inclwanted="$locincpth $usrinc";;
*) inclwanted="$locincpth $inclwanted $usrinc/bsd";;
esac
for thisincl in $inclwanted; do
 if $test -d $thisincl; then
  if $test x$thisincl != x$usrinc; then
   case "$dflt" in
   *" -I$thisincl "*);;
   *) dflt="$dflt -I$thisincl ";;
   esac
  fi
 fi
done

?X: Include test function (header, symbol)
inctest='if $contains $2 $usrinc/$1 >/dev/null 2>&1; then
 xxx=true;
elif $contains $2 $usrinc/sys/$1 >/dev/null 2>&1; then
 xxx=true;
else
 xxx=false;
fi;
if
```

```
 $xxx; then
 case "$dflt" in
 *$2*);;
 *) dflt="$dflt -D$2";;
 esac;
fi'

set signal.h LANGUAGE_C; eval $inctest

case "$usesocks" in
$define)
 ccflags="$ccflags -DSOCKS"
 ;;
esac

case "$hint" in
default|recommended) dflt="$ccflags $dflt" ;;
*) dflt="$ccflags";;
esac

case "$dflt" in
"|' ') dflt=none;;
esac

$cat <<EOH

Your C compiler may want other flags.  For this question you should include
-I/whatever and -DWHATEVER flags and any other flags used by the C compiler,
but you should NOT include libraries or ld flags like -lwhatever.  If you
want $package to honor its debug switch, you should include -DDEBUGGING here.
Your C compiler might also need additional flags, such as -D_POSIX_SOURCE.

To use no flags, specify the word "none".

EOH
?X: strip leading space
set X $dflt
shift
dflt=${1+"$@"}
rp="Any additional cc flags?"
. ./myread
case "$ans" in
none) ccflags="";;
*) ccflags="$ans";;
esac

: the following weeds options from ccflags that are of no interest to cpp
case
```

```
 "$cppflags" in
") cppflags="$ccflags" ;;
*)  set X $ccflags; shift
   case " $cppflags " in
   *" $1 "*) ;;  # Try to avoid doubling the cppflags.
   *) cppflags="$cppflags $ccflags" ;;
   esac
   ;;
esac
case "$gccversion" in
1.*) cppflags="$cppflags -D__GNUC__"
esac
case "$mips_type" in
");;
*BSD*) cppflags="$cppflags -DSYSTYPE_BSD43";;
esac
case "$cppflags" in
");;
*)
 echo " "
 echo "Let me guess what the preprocessor flags are..." >&4
 set X $cppflags
 shift
 cppflags="
 $cat >cpp.c <<'EOM'
#define BLURFL foo

BLURFL xx LFRULB
EOM
?X:
?X: For each cc flag, try it out with both cppstdin and cpprun, since the
?X: first is almost surely a cc wrapper. We have to try both in case
?X: of cc flags like '-Olimit 2900' that are actually two words...
?X:
 previous="
 for flag in $*
 do
  case "$flag" in
  -*) ftry="$flag";;
  *) ftry="$previous $flag";;
  esac
  if $cppstdin -DLFRULB=bar $cppflags $ftry $cppminus <cpp.c \
   >cpp1.out 2>/dev/null && \
   $cpprun -DLFRULB=bar $cppflags
 $ftry $cpplast <cpp.c \
   >cpp2.out 2>/dev/null && \
   $contains 'foo.*xx.*bar' cpp1.out >/dev/null 2>&1 && \
   $contains 'foo.*xx.*bar' cpp2.out >/dev/null 2>&1
```

```
  then
   cppflags="$cppflags $ftry"
   previous=''
  else
   previous="$flag"
  fi
 done
 set X $cppflags
 shift
 cppflags=${1+"$@"}
 case "$cppflags" in
 *-*)  echo "They appear to be: $cppflags";;
 esac
 $rm -f cpp.c cpp?.out
 ;;
esac

: flags used in final linking phase
case "$ldflags" in
'') if ./venix; then
  dflt='-i -z'
 else
  dflt=''
 fi
 case "$ccflags" in
 *-posix*) dflt="$dflt -posix" ;;
 esac
 ;;
*) dflt="$ldflags";;
esac
# See note above about -fstack-protector
case "$ccflags" in
*-fstack-protector-strong*)
 case "$dflt" in
 *-fstack-protector-strong*) ;; # Don't add it again
 *) dflt="$dflt -fstack-protector-strong" ;;
 esac
 ;;
*-fstack-protector*)
 case "$dflt" in
 *-fstack-protector*) ;; # Don't add it again
 *) dflt="$dflt -fstack-protector" ;;
 esac
 ;;
esac

: Try to guess additional flags to pick
```

```
 up local libraries.
for thislibdir in $libpth; do
 case " $loclibpth " in
 *" $thislibdir "*)
  case "$dflt " in
  *"-L$thislibdir "*) ;;
  *)  dflt="$dflt -L$thislibdir" ;;
  esac
  ;;
 esac
done

case "$dflt" in
") dflt='none' ;;
esac

$cat <<EOH

Your C linker may need flags.  For this question you should
include -L/whatever and any other flags used by the C linker, but you
should NOT include libraries like -lwhatever.

Make sure you include the appropriate -L/path flags if your C linker
does not normally search all of the directories you specified above,
namely
 $libpth
To use no flags, specify the word "none".

EOH

rp="Any additional ld flags (NOT including libraries)?"
. ./myread
case "$ans" in
none) ldflags=";;
*) ldflags="$ans";;
esac
rmlist="$rmlist pdp11"

@if lkflags
: partial linking may need other flags
case "$lkflags" in
") case "$ldflags" in
 ") dflt='none';;
 *) dflt="$ldflags";;
 esac;;
*) dflt="$lkflags";;
esac
echo " "
```

```
rp="Partial linking flags to be used (NOT
 including -r)?"
. ./myread
case "$ans" in
none) lkflags="";;
*) lkflags="$ans";;
esac

@end
?X:
?X: If the user changes compilers after selecting a hint file, it's
?X: possible that the suggested ccflags/ldflags will be wrong.  Try to
?X: compile and run a simple test program.  Let the user see all the
?X: error messages. -- ADO and RAM
?X: Sometimes, particularly on Linux systems, there is a bad library
?X: (e.g. a dangling symlink or incompatible library or a "run-time"
?X: version but not a "development" version of a library).  This test
?X: will catch those sorts of problems too, though how to fix them
?X: may not be obvious.
?X:
: coherency check
echo " "
echo "Checking your choice of C compiler and flags for coherency..." >&4
$cat > try.c <<'EOF'
#include <stdio.h>
int main() { printf("Ok\n"); return(0); }
EOF
?X: Strip extra blanks in case some of the following variables are empty
set X $cc -o try $optimize $ccflags $ldflags try.c $libs
shift
$cat >try.msg <<'EOM'
I've tried to
 compile and run the following simple program:

EOM
$cat try.c >> try.msg

$cat >> try.msg <<EOM

I used the command:

 $*
 $run ./try

and I got the following output:

EOM
dflt=y
```

```
?X: Use "sh -c" to avoid error messages tagged with leading "Configure:".
?X: We need to try the resulting executable, because cc might yield a 0 status
?X: even when ld failed, in which case the executable will not run properly,
?X: if its x bit is set at all...
if $sh -c "$cc -o try $optimize $ccflags $ldflags try.c $libs" >>try.msg 2>&1; then
 if $sh -c "$run ./try " >>try.msg 2>&1; then
  xxx=`$run ./try`
  case "$xxx" in
  "Ok") dflt=n ;;
  *)    echo 'The program compiled OK, but produced no output.' >> try.msg ;;
  esac
 else
  echo "The program compiled OK, but exited with status $?." >>try.msg
  rp="You have a problem.  Shall I abort Configure"
  dflt=y
 fi
else
 echo "I can't compile the test program." >>try.msg
 rp="You have a BIG problem.  Shall I abort Configure"
 dflt=y
fi
case "$dflt" in
y)
 $cat
 try.msg >&4
?X: using -K will prevent default aborting--maybe they're cross compiling?
 case "$knowitall" in
 ")
  echo "(The supplied flags or libraries might be incorrect.)"
  ;;
 *) dflt=n;;
 esac
 echo " "
 . ./myread
 case "$ans" in
 n*|N*) ;;
 *) echo "Ok.  Stopping Configure." >&4
  exit 1
  ;;
 esac
 ;;
n) echo "OK, that should do.";;
esac
$rm_try gcctest gcctest.out
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/ccflags.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_mprotect: Inlibc
?MAKE: -pick add $@ %<
?S:d_mprotect:
?S: This variable conditionally defines HAS_MPROTECT if mprotect() is
?S: available to modify the access protection of a memory mapped file.
?S:.
?C:HAS_MPROTECT:
?C: This symbol, if defined, indicates that the mprotect system call is
?C: available to modify the access protection of a memory mapped file.
?C:.
?H:#$d_mprotect HAS_MPROTECT  /**/
?H:.
?LINT:set d_mprotect
: see if mprotect exists
set mprotect d_mprotect
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_mprotect.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: sizetype.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:32:10  ram
```

```
?RCS: patch32: created by ADO
?RCS:
?MAKE:sizetype: Myread Typedef
?MAKE: -pick add $@ %<
?S:sizetype:
?S: This variable defines sizetype to be something like size_t,
?S: unsigned long, or whatever type is used to declare length
?S: parameters for string functions.
?S:.
?C:Size_t:
?C: This symbol holds the type used to declare length parameters
?C: for string
 functions.  It is usually size_t, but may be
?C: unsigned long, int, etc.  It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Size_t $sizetype  /* length paramater for string functions */
?H:.
: see what type is used for size_t
set size_t sizetype 'unsigned int' stdio.h sys/types.h
eval $typedef
dflt="$sizetype"
echo " "
rp="What type is used for the length parameter for string functions?"
. ./myread
sizetype="$ans"
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/sizetype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cpp_stuff.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:30:48  ram
?RCS: patch61: added cute quoting trick for wild stringify support
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:08:24  ram
?RCS: patch36: now uses cppstdin instead of plain cpp for consistency (ADO)
```

```
?RCS: patch36: remove temporary files when done
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:36  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:cpp_stuff cpp_quote: cat contains cppstdin cppflags cppminus rm Warn \
 package
?MAKE: -pick
 add $@ %<
?S:cpp_stuff:
?S: This variable contains an identification of the catenation mechanism
?S: used by the C preprocessor.
?S:.
?S:cpp_quote:
?S: This variable is set to either "" or " depending on whether the
?S: pre-processor pre-dates ANSI or not.  It is used in the production of
?S: the SQuoTe() and EQuoTe() macros, and was introduced to overcome a bug
?S: in gcc 3.x whereby the pre-processor complained loudly about the
?S: unterminated strings.
?S:.
?C:CAT2:
?C: This macro catenates 2 tokens together.
?C:.
?C:CAT3:
?C: This macro catenates 3 tokens together.
?C:.
?C:CAT4:
?C: This macro catenates 4 tokens together.
?C:.
?C:CAT5:
?C: This macro catenates 5 tokens together.
?C:.
?C:STRINGIFY:
?C: This macro surrounds its token with double quotes.
?C:.
?C:SCAT2:
?C: This macro catenates 2 tokens together and stringifies the result.
?C:.
?C:SCAT3:
?C: This macro catenates 3 tokens together and stringifies the result.
?C:.
?C:SCAT4:
?C: This macro catenates 4 tokens
 together and stringifies the result.
?C:.
?C:SCAT5:
?C: This macro catenates 5 tokens together and stringifies the result.
?C:.
```

```
?H:?%<:#if $cpp_stuff == 1
?H:?CAT2:#define CAT2(a,b)a/**/b
?H:?CAT3:#define CAT3(a,b,c)a/**/b/**/c
?H:?CAT4:#define CAT4(a,b,c,d)a/**/b/**/c/**/d
?H:?CAT5:#define CAT5(a,b,c,d,e)a/**/b/**/c/**/d/**/e
?H:?STRINGIFY:#define STRINGIFY(a)"a"
?H:?%<:#define SQuoTe(a)${cpp_quote}a
?H:?%<:#define EQuoTe(a)a${cpp_quote}
?H:?SCAT2:#define SCAT2(a,b)EQuoTe(SQuoTe(a)b)
?H:?SCAT3:#define SCAT3(a,b,c)EQuoTe(SQuoTe(a)b/**/c)
?H:?SCAT4:#define SCAT4(a,b,c,d)EQuoTe(SQuoTe(a)b/**/c/**/d)
?H:?SCAT5:#define SCAT5(a,b,c,d,e)EQuoTe(SQuoTe(a)b/**/c/**/d/**/e)
?H:?%<:#endif
?H:?%<:#if $cpp_stuff == 42
?X: The additional level of indirection enables these macros to be
?X: used as arguments to other macros.  See K&R 2nd ed., page 231.
?H:?%<:#define CaTiFy(a,b) a ## b
?H:?%<:#define CAT2(a,b) CaTiFy(a,b)
?H:?CAT3:#define CAT3(a,b,c) CAT2(CaTiFy(a,b),c)
?H:?CAT4:#define CAT4(a,b,c,d)
 CAT2(CaTiFy(a,b), CaTiFy(c,d))
?H:?CAT5:#define CAT5(a,b,c,d,e) CAT2(CAT2(CaTiFy(a,b), CaTiFy(c,d)), e)
?H:?%<:#define StGiFy(a)# a
?H:?STRINGIFY:#define STRINGIFY(a)StGiFy(a)
?H:?SCAT2:#define SCAT2(a,b)StGiFy(a) StGiFy(b)
?H:?SCAT3:#define SCAT3(a,b,c)StGiFy(a) StGiFy(b) StGiFy(c)
?H:?SCAT4:#define SCAT4(a,b,c,d)StGiFy(a) StGiFy(b) StGiFy(c) StGiFy(d)
?H:?SCAT5:#define SCAT5(a,b,c,d,e)StGiFy(a) StGiFy(b) StGiFy(c) StGiFy(d) StGiFy(e)
?H:?%<:#endif
?H:?%<:#if $cpp_stuff != 1 && $cpp_stuff != 42
?H:?%<:#include "Bletch: How does this C preprocessor catenate tokens?"
?H:?%<:#endif
?H:.
?W:%<:CAT2 CAT3 CAT4 CAT5 STRINGIFY SCAT2 SCAT3 SCAT4 SCAT5
?F:!cpp_stuff.c
?LINT:known StGiFy EQuoTe SQuoTe CaTiFy
: how do we catenate cpp tokens here?
echo " "
echo "Checking to see how your cpp does stuff like catenate tokens..." >&4
cpp_quote="
$cat >cpp_stuff.c <<'EOCP'
#define RCAT(a,b)a/**/b
#define ACAT(a,b)a ## b
RCAT(Rei,ser)
ACAT(Cir,cus)
EOCP
$cppstdin $cppflags $cppminus <cpp_stuff.c >cpp_stuff.out
```

```
 2>&1
if $contains 'Circus' cpp_stuff.out >/dev/null 2>&1; then
 echo "Oh!  Smells like ANSI's been here."
 echo "We can catify or stringify, separately or together!"
 cpp_stuff=42
elif $contains 'Reiser' cpp_stuff.out >/dev/null 2>&1; then
 echo "Ah, yes!  The good old days!"
 cpp_stuff=1
 $cat >cpp_stuff.c <<'EOCP'
#define SQuoTe(a)"a
#define EQuoTe(a)a"
#define CAT2(a,b)EQuoTe(SQuoTe(a)b)
CAT2(Vic,tory)
EOCP
 $cppstdin $cppflags $cppminus <cpp_stuff.c >cpp_stuff.out 2>&1
 if $contains '"Victory"' cpp_stuff.out >/dev/null 2>&1; then
  echo "I'll resort to a cute trick to also be able to stringify."
  cpp_quote=""
 else
  $cat <<EOM
However, in the good old days we don't know how to stringify and
catify at the same time...
@if SCAT2 || SCAT3 || SCAT4 || SCAT5
You might have to edit the values of the SCAT[2-5] macros in config.h...
@else
Hopefully, $package does not need this feature.
@end
EOM
 fi
else
 ./warn <<EOM
I can't seem to be able to catenate tokens with your cpp.
@if
 CAT2 || CAT3 || CAT4 || CAT5 || SCAT2 || SCAT3 || SCAT4 || SCAT5
You're going to have to edit the values of the following
macros in config.h:

@if CAT2 || CAT3 || CAT4 || CAT5
 CAT[2-5]
@end
@if SCAT2 || SCAT3 || SCAT4 || SCAT5
 SCAT[2-5]
@end

in order to let me compile.
@end
EOM
 cpp_stuff="/* Help! How do we handle cpp_stuff? */*/"
```

```
fi
$rm -f cpp_stuff.*
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/cpp_stuff.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_euc2jis.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_euc2jis.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_euc2jis: Inlibc
?MAKE: -pick add $@ %<
?S:d_euc2jis:
?S: This variable conditionally defines the HAS_EUC2JIS symbol, which
?S: indicates to the C program that the euc2jis() routine is available
?S: to convert EUC to JIS.
?S:.
?C:HAS_EUC2JIS:
?C: This symbol, if defined, indicates that the euc2jis routine is
?C: available to convert
 EUC to JIS.
?C:.
?H:#$d_euc2jis HAS_EUC2JIS  /**/
?H:.
?LINT:set d_euc2jis
: see if euc2jis exists
set euc2jis d_euc2jis
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_euc2jis.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: installprefix.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
```

```
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: installprefix.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?RCS:
?MAKE:installprefix installprefixexp: Getfile Loc \
 Oldconfig afs cat package prefix
?MAKE: -pick add $@ %<
?S:installprefix:
?S: This variable holds the name of the directory below which
?S: "make install" will install the package.  For most users, this
?S: is the same
 as prefix.  However, it is useful for
?S: installing the software into a different (usually temporary)
?S: location after which it can be bundled up and moved somehow
?S: to the final location specified by prefix.
?S:.
?S:installprefixexp:
?S: This variable holds the full absolute path of installprefix
?S: with all ~-expansion done.
?S:.
: determine installation prefix for where package is to be installed.
if $afs; then
$cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
files will reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installprefix" in
 ") dflt=`echo $prefix | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installprefix";;
 esac
else
$cat <<EOM

In some special cases, particularly when building $package for distribution,
```

```
it is convenient to distinguish the directory in which files should be
installed from the directory ($prefix) in which they will
eventually
 reside.  For most users, these two directories are the same.

EOM
 case "$installprefix" in
 ") dflt=$prefix ;;
 *) dflt=$installprefix;;
 esac
fi
fn=d~
rp='What installation prefix should I use for installing files?'
. ./getfile
installprefix="$ans"
installprefixexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/installprefix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_syscall.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_syscall.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_syscall: Inlibc
?MAKE: -pick add $@ %<
?S:d_syscall:
?S: This variable conditionally defines HAS_SYSCALL if syscall() is
?S: available call arbitrary system calls.
?S:.
?C:HAS_SYSCALL (SYSCALL):
?C: This symbol, if defined, indicates that the syscall routine is
?C: available to call arbitrary system calls. If undefined, that's tough.
?C:.
?H:#$d_syscall
```

```
 HAS_SYSCALL /**/
?H:.
?LINT:set d_syscall
: see if syscall exists
set syscall d_syscall
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_syscall.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_whoami.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_whoami.U,v $
?RCS: Revision 3.0.1.1  1993/08/25  14:02:21  ram
?RCS: patch6: added default for i_whoami
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_whoami: Inhdr
?MAKE: -pick add $@ %<
?S:i_whoami (d_whoami):
?S: This variable conditionally defines the I_WHOAMI symbol, which
?S: indicates to the C program that it should include <whoami.h>.
?S:.
?C:I_WHOAMI (WHOAMI):
?C: This symbol,
 if defined, indicates that the program may include
?C: <whoami.h>.
?C:.
?H:#$i_whoami I_WHOAMI /**/
?H:.
?D:i_whoami=''
?LINT:set i_whoami
: see if there is a whoami.h file
set whoami.h i_whoami
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_whoami.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:need_va_copy: rm_try cat Compile run
?MAKE: -pick add $@ %<
?S:need_va_copy:
?S: This symbol, if defined, indicates that the system stores
?S: the variable argument list datatype, va_list, in a format
?S: that cannot be copied by simple assignment, so that some
?S: other means must be used when copying is required.
?S: As such systems vary in their provision (or non-provision)
?S: of copying mechanisms, handy.h defines a platform-
?S: independent macro, Perl_va_copy(src, dst), to do the job.
?S:.
?C:NEED_VA_COPY:
?C: This
 symbol, if defined, indicates that the system stores
?C: the variable argument list datatype, va_list, in a format
?C: that cannot be copied by simple assignment, so that some
?C: other means must be used when copying is required.
?C: As such systems vary in their provision (or non-provision)
?C: of copying mechanisms, handy.h defines a platform-
?C: independent macro, Perl_va_copy(src, dst), to do the job.
?C:.
?H:#$need_va_copy NEED_VA_COPY  /**/
?H:.
?T:okay
?F:!try
: see if we need va_copy
echo " "
$cat >try.c <<EOCP
#include <stdarg.h>
#include <stdio.h>
#include <stdlib.h>
#include <signal.h>
```

```
int
ivfprintf(FILE *f, const char *fmt, va_list *valp)
{
 return vfprintf(f, fmt, *valp);
}

int
myvfprintf(FILE *f, const  char *fmt, va_list val)
{
 return ivfprintf(f, fmt, &val);
}

int
myprintf(char *fmt, ...)
{
 va_list val;
 va_start(val, fmt);
 return myvfprintf(stdout, fmt, val);
}

int
main(int ac, char **av)
{
 signal(SIGSEGV, exit);
#ifdef SIGBUS
 signal(SIGBUS,
 exit);
#endif

 myprintf("%s%cs all right, then\n", "that", '\');
 exit(0);
}
EOCP
set try
if eval $compile && $run ./try 2>&1 >/dev/null; then
 case "`$run ./try`" in
 "that's all right, then")
  okay=yes
  ;;
 esac
fi
case "$okay" in
yes) echo "It seems that you don't need va_copy()." >&4
 need_va_copy="$undef"
 ;;
*) echo "It seems that va_copy() or similar will be needed." >&4
 need_va_copy="$define"
 ;;
```

```
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/need_va_copy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2017 H.Merijn Brand (original change by Tony Cook)
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_openat d_unlinkat d_renameat d_linkat d_fchmodat: Inlibc
?MAKE: -pick add $@ %<
?S:d_fchmodat:
?S: This variable conditionally defines the HAS_FCHMODAT symbol, which
?S: indicates the POSIX fchmodat() function is available.
?S:.
?S:d_linkat:
?S: This variable conditionally defines the HAS_LINKAT symbol, which
?S: indicates the POSIX linkat() function is available.
?S:.
?S:d_openat:
?S: This variable conditionally defines the HAS_OPENAT symbol, which
?S: indicates the POSIX openat() function is available.
?S:.
?S:d_renameat:
?S: This variable conditionally defines the HAS_RENAMEAT symbol, which
?S: indicates the POSIX renameat() function is available.
?S:.
?S:d_unlinkat:
?S: This variable
 conditionally defines the HAS_UNLINKAT symbol, which
?S: indicates the POSIX unlinkat() function isavailable.
?S:.
?C:HAS_FCHMODAT:
?C: This symbol is defined if the fchmodat() routine is available.
?C:.
?C:HAS_LINKAT:
?C: This symbol is defined if the linkat() routine is available.
?C:.
?C:HAS_OPENAT:
?C: This symbol is defined if the openat() routine is available.
?C:.
?C:HAS_RENAMEAT:
?C: This symbol is defined if the renameat() routine is available.
?C:.
```

```
?C:HAS_UNLINKAT:
?C: This symbol is defined if the unlinkat() routine is available.
?C:.
?H:#$d_fchmodat HAS_FCHMODAT /**/
?H:#$d_linkat HAS_LINKAT /**/
?H:#$d_openat HAS_OPENAT /**/
?H:#$d_renameat HAS_RENAMEAT /**/
?H:#$d_unlinkat HAS_UNLINKAT /**/
?H:.
?LINT:set d_openat d_unlinkat d_renameat d_linkat d_fchmodat
: check for openat, unlinkat, renameat, linkat, fchmodat
set openat d_openat
eval $inlibc

set unlinkat d_unlinkat
eval $inlibc

set renameat d_renameat
eval $inlibc

set linkat d_linkat
eval $inlibc

set fchmodat d_fchmodat
eval
 $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fsat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: orgname.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: orgname.U,v $
?RCS: Revision 3.0.1.1  1993/09/13  16:10:25  ram
?RCS: patch10: added support for /local/src to the search (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:27  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?MAKE:orgname: sed cat Myread Loc Oldconfig
?MAKE: -pick add $@ %<
?S:orgname:
?S: This variable contains the eventual value of the ORGNAME symbol,
?S: which contains either the organizaton name or the full pathname
?S: of
 a file containing the organization name.
?S:.
?C:ORGNAME:
?C: This symbol contains either the organizaton name or the full pathname
?C: of a file containing the organization name, which the program must
?C: be prepared to open and substitute the contents of.
?C:.
?H:#define ORGNAME "$orgname"  /**/
?H:.
?T:longshots xxx
: get organization name
longshots='/local/src /usr/src/new /usr/src/local /usr/local/src'
case "$orgname" in
") if xxx=`./loc news/src/defs.h x $longshots`; then
  dflt=`$sed -n 's/^.*MYORG[  ]*"\(.*\)".*$/\1/p' $xxx`
 else
  dflt=''
 fi
 ;;
*)  dflt="$orgname";;
esac
$cat << 'EOH'

Please type the name of your organization as you want it to appear on the
Organization line of outgoing articles.  (It's nice if this also specifies
your location.  Your city name is probably sufficient if well known.)
For example:

   University of Southern North Dakota, Hoople

You may also put the name of a file, as long as it begins with a slash.
For example:

   /etc/organization

EOH
orgname=""
while
 test "X$orgname" = "X"; do
 rp='Organization:'
 . ./myread
```

```
 orgname="$ans"
done
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/orgname.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: nis.U,v 3.0.1.3 1997/02/28 16:17:38 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: nis.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:17:38  ram
?RCS: patch61: ensure suitable defaults for hostcat and friends
?RCS:
?RCS: Revision 3.0.1.2  1995/03/21  08:48:34  ram
?RCS: patch52: continued fix for NeXT NIS/NetInfo handling
?RCS:
?RCS: Revision 3.0.1.1  1995/02/15  14:16:23  ram
?RCS: patch51: now correctly handles NeXT using NIS rather than NetInfo
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:passcat
 groupcat hostcat: Myread Oldconfig test contains
?MAKE: -pick add $@ %<
?S:passcat:
?S: This variable contains a command that produces the text of the
?S: /etc/passwd file.  This is normally "cat /etc/passwd", but can be
?S: "ypcat passwd" when NIS is used.
?S: On some systems, such as os390, there may be no equivalent
?S: command, in which case this variable is unset.
?S:.
?S:groupcat:
?S: This variable contains a command that produces the text of the
?S: /etc/group file.  This is normally "cat /etc/group", but can be
?S: "ypcat group" when NIS is used.
?S: On some systems, such as os390, there may be no equivalent
?S: command, in which case this variable is unset.
?S:.
```

```
?S:hostcat:
?S: This variable contains a command that produces the text of the
?S: /etc/hosts file.  This is normally "cat /etc/hosts", but can be
?S: "ypcat hosts" when NIS is used.
?S: On some systems, such as os390, there may be no equivalent
?S: command, in which case this variable is unset.
?S:.
:
 see if we have to deal with yellow pages, now NIS.
?X: NeXT gives us some fun here, as always, by having both NIS (former YP)
?X: and NetInfo. But since it has both, it's ok to put the test inside the if.
?X: Contributed by Thomas Neumann <tom@smart.bo.open.de>.
if $test -d /usr/etc/yp || $test -d /etc/yp || $test -d /usr/lib/yp; then
@if passcat || groupcat
 case "$passcat" in
 nidump*) ;;
 *)
  case "$passcat" in
  *ypcat*) dflt=y;;
  ") if $contains '^\+' /etc/passwd >/dev/null 2>&1; then
   dflt=y
  else
   dflt=n
  fi;;
  *) dflt=n;;
  esac
  echo " "
  rp='Are you getting the passwd file via yellow pages?'
  . ./myread
  case "$ans" in
  y*) passcat='ypcat passwd'
@if groupcat
   echo "(Assuming /etc/group is also distributed.)"
   groupcat='ypcat group'
@end
   ;;
  *) passcat='cat /etc/passwd'
@if groupcat
   echo "(Assuming /etc/group is also local.)"
   groupcat='cat /etc/group'
@end
   ;;
  esac
  ;;
 esac
@end
@if hostcat
 case "$hostcat" in
```

```
 nidump*) ;;
 *)
  case
 "$hostcat" in
  *ypcat*) dflt=y;;
  ") if $contains '^\+' /etc/passwd >/dev/null 2>&1; then
    dflt=y
   else
    dflt=n
   fi;;
  *) dflt=n;;
  esac
  echo " "
  rp='Are you getting the hosts file via yellow pages?'
  . ./myread
  case "$ans" in
  y*) hostcat='ypcat hosts';;
  *) hostcat='cat /etc/hosts';;
  esac
  ;;
 esac
@end
fi
?X: Ensure suitable default -- Manoj Srivastava
case "$hostcat" in
") test -f /etc/hosts && hostcat='cat /etc/hosts';;
esac
case "$groupcat" in
") test -f /etc/group && groupcat='cat /etc/group';;
esac
case "$passcat" in
") test -f /etc/passwd && passcat='cat /etc/passwd';;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/nis.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Tr.U,v 3.0.1.2 1994/10/29 18:00:54 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
?RCS: $Log: Tr.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  18:00:54  ram
?RCS: patch43: forgot to quote $@ to protect against "evil" characters
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:58:35  ram
?RCS: patch36: created
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to do a character translation. It catches translations to uppercase or
?X: to lowercase, and then invokes the real tr to perform the job.
?X:
?X: This unit is necessary
 on HP machines (HP strikes again!) with non-ascii
?X: ROMAN8-charset, where normal letters are not arranged in a row, so a-z
?X: covers not the whole alphabet but lots of special chars. This was reported
?X: by Andreas Sahlbach <a.sahlbach@tu-bs.de>.
?X:
?X: Units performing a tr '[A-Z]' '[a-z]' or the other way round should include
?X: us in their dependency and use ./tr instead.
?X:
?MAKE:Tr: startsh tr eunicefix
?MAKE: -pick add $@ %<
?F:./tr
?T:up low
: see whether [:lower:] and [:upper:] are supported character classes
echo " "
case "`echo AbyZ | $tr '[:lower:]' '[:upper:]' 2>/dev/null`"-"`echo AbyZ | $tr '[:upper:]' '[:lower:]' 2>/dev/null`" in
ABYZ-abyz)
 echo "Good, your tr supports [:lower:] and [:upper:] to convert case." >&4
 up='[:upper:]'
 low='[:lower:]'
 ;;
*) # There is a discontinuity in EBCDIC between 'R' and 'S'
 # (0xd9 and 0xe2), therefore that is a nice testing point.
 if test "X$up" = X -o "X$low" = X; then
    case "`echo RS | $tr '[R-S]' '[r-s]' 2>/dev/null`"
 in
    rs) up='[A-Z]'
  low='[a-z]'
  ;;
    esac
 fi
 if test "X$up" = X -o "X$low" = X; then
    case "`echo RS | $tr R-S r-s 2>/dev/null`" in
    rs) up='A-Z'
  low='a-z'
```

```
  ;;
    esac
 fi
 if test "X$up" = X -o "X$low" = X; then
    case "`echo RS | od -x 2>/dev/null`" in
    *D9E2*|*d9e2*)
  echo "Hey, this might be EBCDIC." >&4
  if test "X$up" = X -o "X$low" = X; then
     case "`echo RS | $tr '[A-IJ-RS-Z]' '[a-ij-rs-z]' 2>/dev/null`" in
     rs) up='[A-IJ-RS-Z]'
   low='[a-ij-rs-z]'
   ;;
     esac
  fi
  if test "X$up" = X -o "X$low" = X; then
     case "`echo RS | $tr A-IJ-RS-Z a-ij-rs-z 2>/dev/null`" in
     rs) up='A-IJ-RS-Z'
   low='a-ij-rs-z'
   ;;
     esac
  fi
  ;;
    esac
 fi
esac
case "`echo RS | $tr \"$up\" \"$low\" 2>/dev/null`" in
rs)
   echo "Using $up and $low to convert case." >&4
   ;;
*)
   echo "I don't know how to translate letters from upper to lower case." >&4
   echo "Your tr is not acting any way I know of." >&4
   exit 1
   ;;
esac
:
 set up the translation script tr, must be called with ./tr of course
cat >tr <<EOSC
$startsh
case "\$1\$2" in
'[A-Z][a-z]') exec $tr '$up' '$low';;
'[a-z][A-Z]') exec $tr '$low' '$up';;
esac
exec $tr "\$@"
EOSC
chmod +x tr
$eunicefix tr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Tr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_perror.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_perror.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:11:38  ram
?RCS: patch32: always define HAS_PERROR even when not used in C code
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_perror: Inlibc
?MAKE: -pick add $@ %<
?S:d_perror:
?S: This variable conditionally remaps perror to a null action and
?S: defines the symbol HAS_PERROR, which indicates to the C program
?S: that the perror()
 routine is not available to print system
?S: error messages.
?S:.
?C:HAS_PERROR ~ %<:
?C: This symbol, if defined, indicates that the perror() routine is
?C: available to print system error messages. If not defined, you should
?C: use your own diagnostic routine...
?C:.
?C:perror ~ %<:
?C: This symbol is maped to null if the  perror() routine is not
?C: available to print system error messages.
?C:.
?H:?%<:#$d_perror HAS_PERROR /**/
?H:?%<:#ifndef HAS_PERROR
?H:?%<:#define perror(s) ;  /* mapped to a null statement */
?H:?%<:#endif
?H:.
?LINT:set d_perror
: see if perror exists
set perror d_perror
```

```
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_perror.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: privlib.U,v $
?RCS: Revision 3.0.1.4  1995/09/25  09:17:09  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:44:23  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:31:52  ram
?RCS: patch32: now uses installation prefix
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:12:34  ram
?RCS: patch10: added support for /local/lib (WED)
?RCS: patch10: prompt phrasing made
 more explicit (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:privlib privlibexp installprivlib: afs package cat Getfile \
 Oldconfig Prefixit test
?MAKE: -pick add $@ %<
?Y:TOP
?S:privlib:
?S: This variable contains the eventual value of the PRIVLIB symbol,
?S: which is the name of the private library for this package.  It may
?S: have a ~ on the front. It is up to the makefile to eventually create
?S: this directory while performing installation (with ~ substitution).
?S:.
?S:privlibexp:
?S: This variable is the ~name expanded version of privlib, so that you
?S: may use it directly in Makefiles or shell scripts.
```

```
?S:.
?S:installprivlib:
?S: This variable is really the same as privlibexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?C:PRIVLIB:
?C: This symbol contains the name of the private library for this package.
?C: The library is
 private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.  The program
?C: should be prepared to do ~ expansion.
?C:.
?C:PRIVLIB_EXP:
?C: This symbol contains the ~name expanded version of PRIVLIB, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#define PRIVLIB "$privlib"  /**/
?H:#define PRIVLIB_EXP "$privlibexp"  /**/
?H:.
: determine where private executables go
set dflt privlib lib/$package
eval $prefixit
$cat <<EOM

There are some auxiliary files for $package that need to be put into a
private library directory that is accessible by everyone.

EOM
fn=d~+
rp='Pathname where the private library files will reside?'
. ./getfile
if $test "X$privlibexp" != "X$ansexp"; then
 installprivlib=''
fi
privlib="$ans"
privlibexp="$ansexp"
if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
private files reside from the directory in which they are installed
 (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installprivlib" in
 '') dflt=`echo $privlibexp | sed 's#^/afs/#/afs/.#'`;;
```

```
 *) dflt="$installprivlib";;
 esac
 fn=de~
 rp='Where will private files be installed?'
 . ./getfile
 installprivlib="$ans"
else
 installprivlib="$privlibexp"
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/privlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_dlopen.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  13:52:56  ram
?RCS: patch56: force compile-link test since symbol might lie in crt0.o (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:34  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_dlopen: Inlibc runnm
?MAKE: -pick add $@ %<
?S:d_dlopen:
?S: This variable conditionally defines the HAS_DLOPEN symbol, which
?S: indicates to the C program that the dlopen() routine
 is available.
?S:.
?C:HAS_DLOPEN :
?C: This symbol, if defined, indicates that the dlopen routine is
?C: available.
?C:.
?H:#$d_dlopen HAS_DLOPEN  /**/
?H:.
?T: xxx_runnm
```

```
?LINT:set d_dlopen
?X: We don't permanently change runnm, but we do temporarily.
?LINT: change runnm
: see if dlopen exists
?X: On NetBSD and FreeBSD, dlopen is available, but it is in
?X: /usr/lib/crt0.o, not in any of the libraries.  Therefore, do not
?X: use the nm extraction, but use a real compile and link test instead.
xxx_runnm="$runnm"
runnm=false
set dlopen d_dlopen
eval $inlibc
runnm="$xxx_runnm"
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_dlopen.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:usefaststdio: Myread Oldconfig Setvar rsrc
?MAKE: -pick add $@ %<
?Y:TOP
?S:usefaststdio:
?S: This variable conditionally defines the USE_FAST_STDIO symbol,
?S: and indicates that Perl should be built to use 'fast stdio'.
?S: Defaults to define in Perls 5.8 and earlier, to undef later.
?S:.
?C:USE_FAST_STDIO:
?C: This symbol, if defined, indicates that Perl should
?C: be built to use 'fast stdio'.
?C: Defaults to define in Perls 5.8 and earlier, to undef later.
?C:.
?H:?%<:#ifndef USE_FAST_STDIO
?H:?%<:#$usefaststdio USE_FAST_STDIO  /**/
?H:?%<:#endif
?H:.
?T:xversion
?LINT:set usefaststdio
: Check if faststdio is requested and available
case "$usefaststdio" in
$define|true|[yY]*|")
 xversion=`awk
```

```
 '/define[  ]+PERL_VERSION/ {print $3}' $rsrc/patchlevel.h`
 case "$xversion" in
 [68]) dflt='y' ;;
 *) dflt='n' ;;
 esac
 ;;
*) dflt='n';;
esac
cat <<EOM

Perl can be built to use 'fast stdio', which means using the stdio
library but also directly manipulating the stdio buffers to enable
faster I/O.  Using stdio is better for backward compatibility (especially
for Perl extensions), but on the other hand since Perl 5.8 the 'perlio'
interface has been preferred instead of stdio.

If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp='Use the "fast stdio" if available?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*)      val="$undef" ;;
esac
set usefaststdio
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/usefaststdio.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: setsid.C,v 3.0.1.1 1994/01/24 13:58:47 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* $Log: setsid.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:47  ram
* patch16: created
*
*/
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/lib/C/fake/setsid.C
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setregid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setregid.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:12  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setregid d_setresgid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setregid:
?S: This variable conditionally defines HAS_SETREGID if setregid() is
?S: available to change the real and effective gid of the current
?S: process.
?S:.
?S:d_setresgid:
?S: This variable conditionally defines HAS_SETRESGID if setresgid() is
?S: available to change
 the real, effective and saved gid of the current
?S: process.
?S:.
?C:HAS_SETREGID (SETREGID):
?C: This symbol, if defined, indicates that the setregid routine is
?C: available to change the real and effective gid of the current
?C: process.
?C:.
?C:HAS_SETRESGID (SETRESGID):
?C: This symbol, if defined, indicates that the setresgid routine is
?C: available to change the real, effective and saved gid of the current
?C: process.
?C:.
?H:#$d_setregid HAS_SETREGID  /**/
?H:#$d_setresgid HAS_SETRESGID  /**/
?H:.
?LINT: set d_setregid d_setresgid
: see if setregid exists
```

```
set setregid d_setregid
eval $inlibc
set setresgid d_setresgid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setregid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?MAKE:usesocks: Myread Oldconfig Setvar spackage package
?MAKE: -pick add $@ %<
?Y:TOP
?S:usesocks:
?S: This variable conditionally defines the USE_SOCKS symbol,
?S: and indicates that Perl should be built to use SOCKS.
?S:.
?C:USE_SOCKS:
?C: This symbol, if defined, indicates that Perl should
?C: be built to use socks.
?C:.
?H:?%<:#$usesocks USE_SOCKS  /**/
?H:.
?D:usesocks="
?LINT:set usesocks
: check for requested SOCKS support
case "$usesocks" in
$define|true|[yY]*) dflt='y';;
*)
 dflt='n';;
esac
cat <<EOM

$spackage can be built to use the SOCKS proxy protocol library.
If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
```

```
rp="Build $package for SOCKS?"
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*)      val="$undef" ;;
esac
set usesocks
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/usesocks.U
No license file was found, but licenses were detected in source scan.

* Feel free to modify any of this as the need arises. Note, however,

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/metaconfig.html
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_csh.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:32:18  ram
?RCS: patch61: added full_csh to preserve the full path even when portable
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:53  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_csh full_csh: csh Setvar
?MAKE: -pick add $@ %<
?S:d_csh:
?S: This variable conditionally defines the CSH symbol, which
?S: indicates to the C program that the C-shell exists.
?S:.
?S:full_csh:
?S: This variable contains the full pathname to 'csh', whether
 or
?S: not the user has specified 'portability'.  This is only used
```

```
?S: in the compiled C program, and we assume that all systems which
?S: can share this executable will have the same full pathname to
?S: 'csh.'
?S:.
?C:HAS_CSH:
?C: This symbol, if defined, indicates that the C-shell exists.
?C:.
?C:CSH:
?C: This symbol, if defined, contains the full pathname of csh.
?C:.
?X: Previously, I just did $d_csh CSH "$full_csh", but that caused
?X: problems on VMS where the config.sh extraction program changes
?X: $undef to a real cpp undef, and they then had  #undef CSH ""
?X: which the compiler didn't like.  It's easy to work around this,
?X: so I did.  --AD  3/1998.
?X: And we don't want to define CSH if !HAS_CSH, but we don't want
?X: those lines in config.h if they don't need CSH, so protect with ?CSH
?X: and not ?%<. --RAM, 15/02/2004
?H:?%<:#$d_csh HAS_CSH  /**/
?H:?CSH:#ifdef HAS_CSH
?H:?CSH:#define CSH "$full_csh" /**/
?H:?CSH:#endif
?H:.
?LINT:set d_csh
: get csh whereabouts
case
 "$csh" in
'csh') val="$undef" ;;
*) val="$define" ;;
esac
set d_csh
eval $setvar
: Respect a hint or command line value for full_csh.
case "$full_csh" in
") full_csh=$csh ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_csh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: dlsrc.U,v$
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
?RCS: $Log: dlext.U,v $
?RCS:
?X:  hpux support thanks to Jeff Okamoto <okamoto@hpcc101.corp.hp.com>
?X:
?X:  To create a shared library, you must compile ALL source files in the
?X:  library with +z (or possibly +Z if the library is whopping huge),
?X:  then link the library with -b.  Example:
?X:   cc -c +z module_a.c
?X:   cc -c +z module_b.c
?X:   ld -b module_a.o module_b.o -o module.sl
?X:
?MAKE:dlext: \
 Getfile Myread cat usedl so
?MAKE: -pick add $@ %<
?Y:BOTTOM
?S:dlext:
?S: This variable contains the extension that is to be used for the
?S: dynamically loaded modules that perl generates.
?S:.
: Check what extension to use for shared libs
case "$usedl" in
$define|y|true)
 $cat <<
 EOM

On a few systems, the dynamically loaded modules that perl generates and uses
will need a different extension than shared libs. The default will probably
be appropriate.

EOM
 case "$dlext" in
 ") dflt="$so" ;;
 *) dflt="$dlext" ;;
 esac
 rp='What is the extension of dynamically loaded modules'
 . ./myread
 dlext="$ans"
 ;;
*)
 dlext="none"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/dlext.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sgndchr.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:44:25  ram
?RCS: patch61: added a ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  14:00:24  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:16  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sgndchr: cat rm +cc +ccflags Setvar
?MAKE: -pick add $@ %<
?S:d_sgndchr:
?S: This variable conditionally defines the SIGNEDCHAR symbol, which
?S: indicates to the C program
 that signed characters are available.
?S:.
?C:SIGNEDCHAR:
?C: This symbol, if defined, indicates that characters are a signed type.
?C: If not defined, things declared as signed characters (and that make
?C: use of negative values) should probably be declared as shorts instead.
?C:.
?H:#$d_sgndchr SIGNEDCHAR /**/
?H:.
?F:!try
?LINT:set d_sgndchr
: check for signed chars
echo " "
echo "Checking to see if your C compiler can do signed chars..." >&4
$cat >try.c <<'EOCP'
int main()
{
 char c = 0;

 c--;
 exit(c >= 0);
```

```
}
EOCP
$cc $ccflags -o try try.c
if ./try; then
 val="$define"
 echo "It certainly can."
else
 val="$undef"
 echo "It can't.  I'll have to make some things type short."
fi
set d_sgndchr
eval $setvar
$rm -f try*
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sgndchr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_isascii.U,v 3.0.1.2 1994/10/29 16:13:39 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_isascii.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:13:39  ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:09:32  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_isascii: Compile cat rm Setvar i_stdlib
?MAKE: -pick add $@ %<
?S:d_isascii:
?S: This variable conditionally defines the HAS_ISASCII constant,
?S: which indicates
 to the C program that isascii() is available.
?S:.
?C:HAS_ISASCII:
?C: This manifest constant lets the C program know that isascii
?C: is available.
```

```
?C:.
?H:#$d_isascii HAS_ISASCII  /**/
?H:.
?LINT:set d_isascii
?X: Can't use Inlibc because isascii() might be a macro.
: Look for isascii
echo " "
$cat >isascii.c <<EOCP
#include <stdio.h>
#include <ctype.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() {
 int c = 'A';
 if (isascii(c))
  exit(0);
 else
  exit(1);
}
EOCP
set isascii
if eval $compile; then
 echo "isascii() found." >&4
 val="$define"
else
 echo "isascii() NOT found." >&4
 val="$undef"
fi
set d_isascii
eval $setvar
$rm -f isascii*
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_isascii.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strerror_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_strerror_l:
?S: This variable conditionally defines the HAS_STRERROR_L symbol, which
?S: indicates to the C program that the strerror_l() routine is available
?S: to return the error message for a given errno value in a particular
```

```
?S: locale (identified by a locale_t object).
?S:.
?C:HAS_STRERROR_L:
?C: This symbol, if defined, indicates that the strerror_l routine is
?C: available to return the error message for a given errno value in
?C: a particular locale (identified by a locale_t object).
?C:.
?H:#$d_strerror_l HAS_STRERROR_L  /**/
?H:.
?LINT:set d_strerror_l
: see if strerror_l exists
set strerror_l d_strerror_l
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strerror_l.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: modetype.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:25:07  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:modetype: Myread Typedef
?MAKE: -pick add $@ %<
?S:modetype:
?S: This variable defines modetype to be something like mode_t,
?S: int, unsigned short, or whatever type is used to declare file
?S: modes for system calls.
?S:.
?C:Mode_t:
?C: This symbol holds the type used to declare file modes
?C: for systems calls.
  It is usually mode_t, but may be
?C: int or unsigned short.  It may be necessary to include <sys/types.h>
?C: to get any typedef'ed information.
```

```
?C:.
?H:#define Mode_t $modetype  /* file mode parameter for system calls */
?H:.
: see what type is used for mode_t
set mode_t modetype int stdio.h sys/types.h
eval $typedef
dflt="$modetype"
echo " "
rp="What type is used for file modes?"
. ./myread
modetype="$ans"
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/modetype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?X:
?X: This unit allows the duplication of the source tree to the current
?X: directory via symbolic links.  This must be requested explicitly
?X: by them issuing a -Dmksymlinks on the command line.
?X:
?MAKE:Mksymlinks: Mkdirp lns issymlink src rsrc pkgsrc
?MAKE: -pick add $@ %<
?F:!UU
?T: dir filename tmppwd filelist
?LINT:extern mksymlinks
@if {test -f ../MANIFEST}
: Duplicate the tree with symbolic links if -Dmksymlinks was supplied
case "$mksymlinks"
 in
$define|true|[yY]*)
 echo " "
 case "$src" in
 "|'.') echo "Cannot create symlinks in the original directory." >&4
  exit 1
```

```
  ;;
 *) case "$lns:$issymlink" in
  *"ln"*" -s:"*"test -"?)
   echo "Creating the symbolic links..." >&4
   echo "(First creating the subdirectories...)" >&4
   cd ..
   awk '{print $1}' $src/MANIFEST | grep / | sed 's:/[^/]*$::' | \
    sort -u | while true
   do
    read dir
    test -z "$dir" && break
    ./UU/mkdirp $dir 2>/dev/null
    if test -d $dir; then
     : ok
    else
     echo "Failed to create '$dir'.  Aborting." >&4
     exit 1
    fi
   done
   echo "(Now creating the symlinks...)" >&4
   awk '{print $1}' $src/MANIFEST | while true; do
    read filename
    test -z "$filename" && break
    if test -f $filename; then
     if $issymlink $filename; then
      rm -f $filename
     fi
    fi
    if test -f $filename; then
     echo "$filename already exists, not symlinking."
    else
?X: Note that the following works because "$pkgsrc" is absolute
     ln
 -s $pkgsrc/$filename $filename
    fi
   done
?X: Check that everything was correctly copied
   echo "(Checking current directory...)" >&4
   cd UU
   awk '$1 !~ /PACK[A-Z]+/ {print $1}' "$rsrc/MANIFEST" | \
    (split -l 50 2>/dev/null || split -50)
   rm -f missing
   tmppwd=`pwd`
   for filelist in x??; do
    (cd ..; ls `cat "$tmppwd/$filelist"` \
     >/dev/null 2>>"$tmppwd/missing")
   done
   if test -s missing; then
```

```
    echo "Failed duplication of source tree.  Aborting." >&4
    exit 1
   fi
   ;;
  *) echo "(I cannot figure out how to do symbolic links, ignoring!)" >&4
   ;;
  esac
  ;;
 esac
 ;;
esac

@end
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Mksymlinks.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_stdlib.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_stdlib.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_stdlib: Inhdr
?MAKE: -pick add $@ %<
?S:i_stdlib:
?S: This variable conditionally defines the I_STDLIB symbol, which
?S: indicates to the C program that <stdlib.h> exists and should
?S: be included.
?S:.
?C:I_STDLIB:
?C: This symbol, if defined, indicates that <stdlib.h> exists and should
?C: be included.
?C:.
?H:#$i_stdlib I_STDLIB  /**/
?H:.
?LINT:set
```

```
 i_stdlib
: see if stdlib is available
set stdlib.h i_stdlib
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_stdlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gmtime_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_gmtime_r gmtime_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_time i_systime extern_C
?MAKE: -pick add $@ %<
?S:d_gmtime_r:
?S: This variable conditionally defines the HAS_GMTIME_R symbol,
?S: which indicates to the C program that the gmtime_r()
?S: routine is available.
?S:.
?S:gmtime_r_proto:
?S: This variable encodes the prototype of gmtime_r.
?S: It is zero if d_gmtime_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gmtime_r
?S: is defined.
?S:.
?C:HAS_GMTIME_R:
?C: This symbol, if defined, indicates that the gmtime_r routine
?C: is available to gmtime re-entrantly.
?C:.
?C:GMTIME_R_PROTO:
?C: This
 symbol encodes the prototype of gmtime_r.
?C: It is zero if d_gmtime_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gmtime_r
?C: is defined.
?C:.
?H:#$d_gmtime_r HAS_GMTIME_R /**/
?H:#define GMTIME_R_PROTO $gmtime_r_proto /**/
?H:.
?T:try hdrs d_gmtime_r_proto
: see if gmtime_r exists
```

```
set gmtime_r d_gmtime_r
eval $inlibc
case "$d_gmtime_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_time time.h $i_systime sys/time.h"
 case "$d_gmtime_r_proto:$usethreads" in
 ":define") d_gmtime_r_proto=define
  set d_gmtime_r_proto gmtime_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_gmtime_r_proto" in
 define)
 case "$gmtime_r_proto" in
 "|0) try='struct tm* gmtime_r(const time_t*, struct tm*);'
 ./protochk "$extern_C $try" $hdrs && gmtime_r_proto=S_TS ;;
 esac
 case "$gmtime_r_proto" in
 "|0) try='int gmtime_r(const time_t*, struct tm*);'
 ./protochk "$extern_C $try" $hdrs && gmtime_r_proto=I_TS ;;
 esac
 case
 "$gmtime_r_proto" in
 "|0) d_gmtime_r=undef
  gmtime_r_proto=0
  echo "Disabling gmtime_r, cannot determine prototype." >&4 ;;
 * ) case "$gmtime_r_proto" in
  REENTRANT_PROTO*) ;;
  *) gmtime_r_proto="REENTRANT_PROTO_$gmtime_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "gmtime_r has no prototype, not using it." >&4 ;;
  esac
  d_gmtime_r=undef
  gmtime_r_proto=0
  ;;
 esac
 ;;
*) gmtime_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_gmtime_r.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_closedir.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:31:26  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:11:18  ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:21  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_closedir d_void_closedir: Inlibc i_dirent i_sysdir i_sysndir \
 cc ccflags ldflags libs Setvar rm
?MAKE: -pick
 add $@ %<
?S:d_closedir:
?S: This variable conditionally defines HAS_CLOSEDIR if closedir() is
?S: available.
?S:.
?C:HAS_CLOSEDIR:
?C: This symbol, if defined, indicates that the closedir() routine is
?C: available.
?C:.
?H:#$d_closedir HAS_CLOSEDIR  /**/
?H:.
?S:d_void_closedir:
?S: This variable conditionally defines VOID_CLOSEDIR if closedir()
?S: does not return a value.
?S:.
?C:VOID_CLOSEDIR:
?C: This symbol, if defined, indicates that the closedir() routine
?C: does not return a value.
?C:.
?H:#$d_void_closedir VOID_CLOSEDIR  /**/
?H:.
```

```
?F:!closedir
?LINT:set d_closedir d_void_closedir
: see if closedir exists
set closedir d_closedir
eval $inlibc

@if VOID_CLOSEDIR || d_void_closedir
?X: The following contortions are designed so we can call closedir()
?X: and check whether it returns a value.  The contortions are designed
?X: to portably pick up the correct directory header, for those
?X: systems that support various mutually incompatible directory functions.
?X: This
 is from perl5's perl.h
case "$d_closedir" in
"$define")
 echo " "
 echo "Checking whether closedir() returns a status..." >&4
 cat > closedir.c <<EOM
#$i_dirent I_DIRENT  /**/
#$i_sysdir I_SYS_DIR  /**/
#$i_sysndir I_SYS_NDIR  /**/

#if defined(I_DIRENT)
#include <dirent.h>
#if defined(NeXT) && defined(I_SYS_DIR) /* NeXT needs dirent + sys/dir.h */
#include <sys/dir.h>
#endif
#else
#ifdef I_SYS_NDIR
#include <sys/ndir.h>
#else
#ifdef I_SYS_DIR
#ifdef hp9000s500
#include <ndir.h> /* may be wrong in the future */
#else
#include <sys/dir.h>
#endif
#endif
#endif
#endif
int main() { return closedir(opendir(".")); }
EOM
 if $cc $ccflags $ldflags -o closedir closedir.c $libs > /dev/null 2>&1; then
  if ./closedir > /dev/null 2>&1 ; then
   echo "Yes, it does."
   val="$undef"
  else
   echo "No, it doesn't."
```

```
   val="$define"
  fi
 else
  echo "(I can't seem to compile the test program--assuming it doesn't)"
  val="$define"
 fi
 ;;
*)
 val="$undef";
 ;;
esac
set d_void_closedir
eval $setvar
$rm
 -f closedir*
@end
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_closedir.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_pipe2: Inlibc
?MAKE: -pick add $@ %<
?S:d_pipe2:
?S: This variable conditionally defines the HAS_PIPE2 symbol, which
?S: indicates to the C program that the pipe2() routine is available
?S: to create an inter-process channel.
?S:.
?C:HAS_PIPE2:
?C: This symbol, if defined, indicates that the pipe2 routine is
?C: available to create an inter-process channel.
?C:.
?H:#$d_pipe2 HAS_PIPE2  /**/
?H:.
?LINT:set d_pipe2
: see if pipe2 exists
set pipe2 d_pipe2
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_pipe2.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: scandir.C,v 3.0.1.1 1994/01/24 13:58:45 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
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*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* $Log: scandir.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:45  ram
* patch16: created
*
*/
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/lib/C/fake/scandir.C
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_random_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_random_r random_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_stdlib extern_C
?MAKE: -pick add $@ %<
?S:d_random_r:
?S: This variable conditionally defines the HAS_RANDOM_R symbol,
?S: which indicates to the C program that the random_r()
?S: routine is available.
?S:.
?S:random_r_proto:
?S: This variable encodes the prototype of random_r.
?S: It is zero if d_random_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_random_r
?S: is defined.
```

```
?S:.
?C:HAS_RANDOM_R:
?C: This symbol, if defined, indicates that the random_r routine
?C: is available to random re-entrantly.
?C:.
?C:RANDOM_R_PROTO:
?C: This
 symbol encodes the prototype of random_r.
?C: It is zero if d_random_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_random_r
?C: is defined.
?C:.
?H:#$d_random_r HAS_RANDOM_R /**/
?H:#define RANDOM_R_PROTO $random_r_proto /**/
?H:.
?T:try hdrs d_random_r_proto
: see if random_r exists
set random_r d_random_r
eval $inlibc
case "$d_random_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_stdlib stdlib.h"
 case "$d_random_r_proto:$usethreads" in
 ":define") d_random_r_proto=define
  set d_random_r_proto random_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_random_r_proto" in
 define)
 case "$random_r_proto" in
 "|0) try='int random_r(int*, struct random_data*);'
 ./protochk "$extern_C $try" $hdrs && random_r_proto=I_iS ;;
 esac
 case "$random_r_proto" in
 "|0) try='int random_r(long*, struct random_data*);'
 ./protochk "$extern_C $try" $hdrs && random_r_proto=I_lS ;;
 esac
 case "$random_r_proto" in
 "|0)
 try='int random_r(struct random_data*, int32_t*);'
 ./protochk "$extern_C $try" $hdrs && random_r_proto=I_St ;;
 esac
 case "$random_r_proto" in
 "|0) d_random_r=undef
  random_r_proto=0
  echo "Disabling random_r, cannot determine prototype." >&4 ;;
 * ) case "$random_r_proto" in
```

```
  REENTRANT_PROTO*) ;;
  *) random_r_proto="REENTRANT_PROTO_$random_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "random_r has no prototype, not using it." >&4 ;;
  esac
  d_random_r=undef
  random_r_proto=0
  ;;
 esac
 ;;
*) random_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_random_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sigblock.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sigblock.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:21  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sigblock: Inlibc
?MAKE: -pick add $@ %<
?S:d_sigblock:
?S: This variable conditionally defines HAS_SIGBLOCK if sigblock() is
?S: available to block signal reception.
?S:.
?C:HAS_SIGBLOCK:
?C: This symbol, if defined, indicates that the sigblock routine is
?C: available to block signal reception.
?C:.
?H:#$d_sigblock HAS_SIGBLOCK /**/
```

```
?H:.
?LINT:set
 d_sigblock
: see if sigblock exists
set sigblock d_sigblock
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sigblock.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:usemorebits: Setvar
?MAKE: -pick add $@ %<
?Y:TOP
?S:usemorebits:
?S: This variable conditionally defines the USE_MORE_BITS symbol,
?S: and indicates that explicit 64-bit interfaces and long doubles
?S: should be used when available.
?S:.
?C:USE_MORE_BITS:
?C: This symbol, if defined, indicates that 64-bit interfaces and
?C: long doubles should be used when available.
?C:.
?H:?%<:#ifndef USE_MORE_BITS
?H:?%<:#$usemorebits USE_MORE_BITS  /**/
?H:?%<:#endif
?H:.
?LINT:extern use64bitint
?LINT:change use64bitint
?LINT:extern uselongdouble
?LINT:change uselongdouble
: Check if morebits is requested
case "$usemorebits" in
"$define"|true|[yY]*)
 use64bitint="$define"
 uselongdouble="$define"
 usemorebits="$define"
 ;;
*) usemorebits="$undef"
 ;;
```

```
esac

Found
 in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/usemorebits.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_tzname.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_tzname.U,v $
?RCS: Revision 3.0.1.2  1994/08/29  16:14:43  ram
?RCS: patch32: forgot to set proper value in the val variable
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:57:55  ram
?RCS: patch30: created
?RCS:
?MAKE:d_tzname: Csym Setvar
?MAKE: -pick add $@ %<
?S:d_tzname:
?S: This variable conditionally defines HAS_TZNAME if tzname[] is
?S: available to access timezone names.
?S:.
?C:HAS_TZNAME:
?C: This symbol, if defined, indicates that the tzname[]
 array is
?C: available to access timezone names.
?C:.
?H:#$d_tzname HAS_TZNAME  /**/
?H:.
?LINT:set d_tzname
: see if tzname[] exists
echo " "
if set tzname val -a d_tzname; eval $csym; $val; then
 val="$define"
 echo 'tzname[] found.' >&4
else
 val="$undef"
 echo 'tzname[] NOT found.' >&4
fi
```

```
set d_tzname
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_tzname.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS:
?X:
?X: This unit is just a quick shorthand for the compile command
?X: to be used in all the other metaconfig units.
?X:
?MAKE:Compile: +cc +optimize +ccflags +ldflags +libs
?MAKE: -pick add $@ %<
?LINT:define compile compile_ok
?V:compile compile_ok mc_file
?S:compile:
?S: This shell variable is used internally
 by Configure to provide
?S: a convenient shorthand for the typical compile command, namely
?S: $cc $optimize $ccflags $ldflags -o $1 $1.c $libs > /dev/null 2>&1
?S: Note that the output filename does _not_ include the _exe
?S: extension.  Instead we assume that the linker will be
?S: "helpful" and automatically appending the correct suffix.
?S: OS/2 users will apparently need to supply the -Zexe flag to
?S: get this behavior.
?S:
?S: To use this variable, say something like:
?S:  echo 'int main() { exit(0); }' > try.c
?S:  set try
?S:  if eval $compile; then
?S:   echo "success"   # and do whatever . . .
```

```
?S:  else
?S:   echo "failure"   # and do whatever . . .
?S:  fi
?S: To add extra flags cc flags (e.g. -DWHATEVER) just put them
?S: in $*, e.g.
?S:  set try -DTRY_THIS_FLAG
?S:.
?S:compile_ok:
?S: This shell variable is used internally by Configure to provide
?S: a convenient shorthand for the typical compile command that you
?S: expect to work ok.  It is the same as $compile,
 except we
?S: deliberately let the user see any error messages.
?S:.
: define a shorthand compile call
compile='
mc_file=$1;
shift;
$cc -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs > /dev/null 2>&1;'
: define a shorthand compile call for compilations that should be ok.
compile_ok='
mc_file=$1;
shift;
$cc -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs;'
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Compile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_rdchk.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_rdchk.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_rdchk: Inlibc
?MAKE: -pick add $@ %<
?S:d_rdchk:
?S: This variable conditionally defines the HAS_RDCHK symbol, which
```

```
?S: indicates to the C program that the rdchk() routine is available
?S: to find out if there is input pending on an IO channel.
?S:.
?C:HAS_RDCHK (RDCHK):
?C: This symbol, if defined, indicates that the rdchk routine
 is available
?C: to find out if there is input pending on an IO channel.  Generally
?C: the routine is used only if FIONREAD and O_NDELAY aren't available.
?C:.
?H:#$d_rdchk HAS_RDCHK  /**/
?H:.
?LINT:set d_rdchk
: see if rdchk exists
set rdchk d_rdchk
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_rdchk.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethname.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_gethname.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:13:00  ram
?RCS: patch36: call ./xenix explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:11  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_gethname d_uname d_phostname aphostname: phostname cat \
 myhostname package d_portable Loc echo n c +i_whoami +usrinc \
 Myread Guess Oldconfig Csym
?MAKE: -pick add $@ %<
?S:d_gethname:
?S: This variable conditionally
 defines the HAS_GETHOSTNAME symbol, which
?S: indicates to the C program that the gethostname() routine may be
?S: used to derive the host name.
?S:.
```

```
?S:d_uname:
?S: This variable conditionally defines the HAS_UNAME symbol, which
?S: indicates to the C program that the uname() routine may be
?S: used to derive the host name.
?S:.
?S:d_phostname:
?S: This variable conditionally defines the HAS_PHOSTNAME symbol, which
?S: contains the shell command which, when fed to popen(), may be
?S: used to derive the host name.
?S:.
?S:aphostname:
?S: This variable contains the command which can be used to compute the
?S: host name. The command is fully qualified by its absolute path, to make
?S: it safe when used by a process with super-user privileges.
?S:.
?C:HAS_GETHOSTNAME (GETHOSTNAME):
?C: This symbol, if defined, indicates that the C program may use the
?C: gethostname() routine to derive the host name.  See also HAS_UNAME
?C: and PHOSTNAME.
?C:.
?C:HAS_UNAME (UNAME):
?C: This symbol,
 if defined, indicates that the C program may use the
?C: uname() routine to derive the host name.  See also HAS_GETHOSTNAME
?C: and PHOSTNAME.
?C:.
?C:PHOSTNAME:
?C: This symbol, if defined, indicates the command to feed to the
?C: popen() routine to derive the host name.  See also HAS_GETHOSTNAME
?C: and HAS_UNAME. Note that the command uses a fully qualified path,
?C: so that it is safe even if used by a process with super-user
?C: privileges.
?C:.
?C:HAS_PHOSTNAME:
?C: This symbol, if defined, indicates that the C program may use the
?C: contents of PHOSTNAME as a command to feed to the popen() routine
?C: to derive the host name.
?C:.
?H:?%<:#$d_gethname HAS_GETHOSTNAME /**/
?H:?%<:#$d_uname HAS_UNAME  /**/
?H:?%<:#$d_phostname HAS_PHOSTNAME /**/
?H:?%<:#ifdef HAS_PHOSTNAME
?H:?%<:#define PHOSTNAME "$aphostname" /* How to get the host name */
?H:?%<:#endif
?H:.
?T:file val call
?LINT:change i_whoami
: see how we will look up host name
```

```
echo " "
call=''
@if HAS_GETHOSTNAME
if
 set gethostname val -f d_gethname; eval $csym; $val; then
 echo 'gethostname() found.' >&4
 d_gethname="$define"
 call=gethostname
fi
@end
@if HAS_UNAME
if set uname val -f d_uname; eval $csym; $val; then
 if ./xenix; then
  $cat <<'EOM'
uname() was found, but you're running xenix, and older versions of xenix
have a broken uname(). If you don't really know whether your xenix is old
enough to have a broken system call, use the default answer.

EOM
  dflt=y
  case "$d_uname" in
  "$define") dflt=n;;
  esac
  rp='Is your uname() broken?'
  . ./myread
  case "$ans" in
  n*) d_uname="$define"; call=uname;;
  esac
 else
  echo 'uname() found.' >&4
  d_uname="$define"
  case "$call" in
  '') call=uname ;;
  esac
 fi
fi
@end
case "$d_gethname" in
'') d_gethname="$undef";;
esac
case "$d_uname" in
'') d_uname="$undef";;
esac
@if PHOSTNAME || MYHOSTNAME
case "$d_uname$d_gethname" in
*define*)
 dflt=n
 cat <<EOM
```

```
Every now and then someone has a $call() that lies about the hostname
but can't be fixed
 for political or economic reasons.  If you wish, I can
@if MYHOSTNAME && PHOSTNAME
pretend $call() isn't there and maybe compile in the hostname or
compute it from the '$phostname' command at run-time.
@elsif MYHOSTNAME
pretend $call() isn't there and maybe compile in the hostname.
@elsif PHOSTNAME
pretend $call() isn't there and maybe compute hostname at run-time
thanks to the '$phostname' command.
@elsif WHOAMI
get the hostname from whomai.h (provided you have one).
@else
simply ignore your host name and use someting like "noname" instead.
@end

EOM
 rp="Shall I ignore $call() from now on?"
 . ./myread
 case "$ans" in
 y*) d_uname="$undef" d_gethname="$undef"; $echo $n "Okay...$c";;
 esac;;
esac
@end
@if PHOSTNAME || aphostname
?X: Compute the full path name for the command
case "$phostname" in
") aphostname=";;
*) case "$aphostname" in
 /*) ;;
 *) set X $phostname
  shift
  file=$1
  shift
  file=`./loc $file $file $pth`
  aphostname=`echo $file $*`
  ;;
 esac
 ;;
esac
@end
@if
 PHOSTNAME && MYHOSTNAME
case "$d_uname$d_gethname" in
*define*) ;;
*)
```

```
 case "$phostname" in
 ") ;;
 *)
  $cat <<EOT

There is no gethostname() or uname() on this system.  You have two
possibilities at this point:

1)  You can have your host name ($myhostname) compiled into $package, which
   lets $package start up faster, but makes your binaries non-portable, or
2)  you can have $package use a

 popen("$aphostname","r")

   which will start slower but be more portable.

@ if WHOAMI
Option 1 will give you the option of using whoami.h if you have one.
@ end
If you want option 2 but with a different command, you can edit config.sh at
the end of this shell script.

EOT
  case "$d_phostname" in
  "$define") dflt=n;;
  "$undef")  dflt=y;;
  ")
   case "$d_portable" in
   "$define") dflt=n ;;
   *) dflt=y ;;
   esac;;
  esac
  rp="Do you want your host name compiled in?"
  . ./myread
  case "$ans" in
  n*) d_phostname="$define" ;;
  *) aphostname=''; d_phostname="$undef";;
  esac;;
 esac
 case
 "$aphostname" in
 ")
@ if WHOAMI
  case "$i_whoami" in
  "$define")
   dflt=y
   $cat <<EOM
```

```
No hostname function--you can either use the whoami.h file, which has this line:

 `grep sysname $usrinc/whoami.h`

or you can have the name we came up with earlier ($myhostname) hardwired in.
EOM
   rp="Use whoami.h to get hostname?"
   . ./myread
   case "$ans" in
   n*) i_whoami="$undef";;
   esac
   ;;
  "$undef")
   $cat <<EOM
No hostname function and no whoami.h -- hardwiring "$myhostname".
EOM
   ;;
  esac;;
@ else
  echo 'No hostname function -- hardwiring '"$myhostname"'.' >&4;;
@ end
 esac;;
esac
@elsif PHOSTNAME
case "$d_uname$d_gethname" in
*define*) ;;
*)
 case "$phostname" in
 ")
@ if WHOAMI
  case "$i_whoami" in
  "$define")
   $cat <<EOM

No hostname function--we'll use the whoami.h file, which has this line:

 `grep sysname $usrinc/whoami.h`

EOM
   ;;
  *) echo "There will be no way for $package to get your hostname." >&4;;
  esac;;
@ else
  echo "There will be no way
 for $package to get your hostname." >&4;;
@ end
 *)
 echo "I'll use 'popen('''$aphostname''', "r")'' to get your hostname." >&4
```

```
  ;;
 esac;;
esac
@elsif MYHOSTNAME
case "$d_uname$d_gethname" in
*define*) ;;
*)
@ if WHOAMI
 case "$i_whoami" in
 "$define")
  dflt=y
  $cat <<EOM

No hostname function--you can either use the whoami.h file, which has this line:

 `grep sysname $usrinc/whoami.h`

or you can have the name we came up with earlier ($myhostname) hardwired in.
EOM
  rp="Use whoami.h to get hostname?"
  . ./myread
  case "$ans" in
  n*) i_whoami="$undef";;
  esac
  ;;
 "$undef")
  echo 'No whoami.h--hardwiring '"$myhostname"'.' >&4;;
 esac;;
@ else
 echo 'Hardwiring '"$myhostname"'.' >&4;;
@ end
esac
@end
case "$d_phostname" in
") d_phostname="$undef";;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_gethname.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setpwent.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
?RCS: $Log: d_setpwent.U,v $
?RCS:
?MAKE:d_setpwent: Inlibc
?MAKE: -pick add $@ %<
?S:d_setpwent:
?S: This variable conditionally defines the HAS_SETPWENT symbol, which
?S: indicates to the C program that the setpwent() routine is available
?S: for initializing sequential access to the passwd database.
?S:.
?C:HAS_SETPWENT:
?C: This symbol, if defined, indicates that the setpwent routine is
?C: available for initializing sequential access of the passwd database.
?C:.
?H:#$d_setpwent HAS_SETPWENT  /**/
?H:.
?LINT:set d_setpwent
: see if setpwent exists
set setpwent d_setpwent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_setpwent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endgrent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_endgrent_r endgrent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_grp extern_C
?MAKE: -pick add $@ %<
?S:d_endgrent_r:
?S: This variable conditionally defines the HAS_ENDGRENT_R symbol,
?S: which indicates to the C program that the endgrent_r()
?S: routine is available.
?S:.
?S:endgrent_r_proto:
?S: This variable encodes the prototype of endgrent_r.
?S: It is zero if d_endgrent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endgrent_r
?S: is defined.
?S:.
```

```
?C:HAS_ENDGRENT_R:
?C: This symbol, if defined, indicates that the endgrent_r routine
?C: is available to
 endgrent re-entrantly.
?C:.
?C:ENDGRENT_R_PROTO:
?C: This symbol encodes the prototype of endgrent_r.
?C: It is zero if d_endgrent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endgrent_r
?C: is defined.
?C:.
?H:#$d_endgrent_r HAS_ENDGRENT_R /**/
?H:#define ENDGRENT_R_PROTO $endgrent_r_proto /**/
?H:.
?T:try hdrs d_endgrent_r_proto
: see if endgrent_r exists
set endgrent_r d_endgrent_r
eval $inlibc
case "$d_endgrent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_grp grp.h"
 case "$d_endgrent_r_proto:$usethreads" in
 ":define") d_endgrent_r_proto=define
  set d_endgrent_r_proto endgrent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_endgrent_r_proto" in
 define)
 case "$endgrent_r_proto" in
 "|0) try='int endgrent_r(FILE**);'
 ./protochk "$extern_C $try" $hdrs && endgrent_r_proto=I_H ;;
 esac
 case "$endgrent_r_proto" in
 "|0) try='void endgrent_r(FILE**);'
 ./protochk "$extern_C $try" $hdrs && endgrent_r_proto=V_H ;;
 esac
 case "$endgrent_r_proto"
 in
 "|0) d_endgrent_r=undef
  endgrent_r_proto=0
  echo "Disabling endgrent_r, cannot determine prototype." >&4 ;;
 * ) case "$endgrent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) endgrent_r_proto="REENTRANT_PROTO_$endgrent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
```

```
 ;;
 *) case "$usethreads" in
  define) echo "endgrent_r has no prototype, not using it." >&4 ;;
  esac
  d_endgrent_r=undef
  endgrent_r_proto=0
  ;;
 esac
 ;;
*) endgrent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_endgrent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_rint: Inlibc
?MAKE: -pick add $@ %<
?S:d_rint:
?S: This variable conditionally defines the HAS_RINT symbol, which
?S: indicates to the C program that the rint() routine is available.
?S:.
?C:HAS_RINT:
?C: This symbol, if defined, indicates that the rint routine is
?C: available to return the nearest integral value to x as double
?C: using the current rounding mode.
?C:.
?H:#$d_rint HAS_RINT  /**/
?H:.
?LINT:set d_rint
: see if rint exists
set rint d_rint
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_rint.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_wait4.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_wait4.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_wait4: Inlibc
?MAKE: -pick add $@ %<
?S:d_wait4:
?S: This variable conditionally defines the HAS_WAIT4 symbol, which
?S: indicates the wait4() routine is available.
?S:.
?C:HAS_WAIT4 (WAIT4):
?C: This symbol, if defined, indicates that wait4() exists.
?C:.
?H:#$d_wait4 HAS_WAIT4 /**/
?H:.
?LINT:set d_wait4
: see if there is a wait4
set
 wait4 d_wait4
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_wait4.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:multiarch: osname
?MAKE: -pick add $@ %<
?S:multiarch:
?S: This variable conditionally defines the MULTIARCH symbol
?S: which signifies the presence of multiplatform files.
```

```
?S: This is normally set by hints files.
?S:.
?C:MULTIARCH:
?C: This symbol, if defined, signifies that the build
?C: process will produce some binary files that are going to be
?C: used in a cross-platform environment.  This is the case for
?C: example with the NeXT "fat" binaries that contain executables
?C: for
 several CPUs.
?C:.
?H:#$multiarch MULTIARCH  /**/
?H:.
: Check if is a multiplatform env
case "$osname" in
darwin) multiarch="$define" ;;
esac
case "$multiarch" in
"|[nN]*) multiarch="$undef" ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/a_dvisory/multiarch.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_syspoll.U 15 2006-08-30 18:21:51Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:i_syspoll: Inhdr
?MAKE: -pick add $@ %<
?S:i_syspoll:
?S: This variable conditionally defines the I_SYS_POLL symbol, which
?S: indicates to the C program that it should include <sys/poll.h>.
?S:.
?C:I_SYS_POLL:
?C: This symbol, if defined, indicates that the program may include
?C: <sys/poll.h>.  When I_POLL is also defined, it's probably safest
?C: to only include <poll.h>.
?C:.
?H:#$i_syspoll I_SYS_POLL /**/
?H:.
```

```
?LINT:set i_syspoll
: see if there is
 a sys/poll.h file
set sys/poll.h i_syspoll
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_syspoll.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_time.U,v 3.0.1.2 1995/07/25 14:07:43 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_time.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:07:43  ram
?RCS: patch56: typo fix, sytem -> system
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:16:38  ram
?RCS: patch36: now uses new Typedef unit to compute type information (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X: Maybe <sys/types.h> should be included?
?X:INC: i_systypes
?MAKE:d_time timetype: Csym Setvar Findhdr Myread Typedef
?MAKE: -pick
 add $@ %<
?S:d_time:
?S: This variable conditionally defines the HAS_TIME symbol, which indicates
?S: that the time() routine exists.  The time() routine is normally
?S: provided on UNIX systems.
?S:.
?S:timetype:
?S: This variable holds the type returned by time(). It can be long,
?S: or time_t on BSD sites (in which case <sys/types.h> should be
?S: included). Anyway, the type Time_t should be used.
?S:.
?C:HAS_TIME (TIMER):
?C: This symbol, if defined, indicates that the time() routine exists.
```

```
?C:.
?C:Time_t (TIMETYPE):
?C: This symbol holds the type returned by time(). It can be long,
?C: or time_t on BSD sites (in which case <sys/types.h> should be
?C: included).
?C:.
?H:#$d_time HAS_TIME  /**/
?H:#define Time_t $timetype  /* Time type */
?H:.
?LINT:set d_time
: see if time exists
echo " "
?X: MPE/iX needs this protection of hint values.
?X: See d_sterror.U for more explanation.
if test "X$d_time" = X -o X"$timetype" = X; then
   if set time val -f d_time; eval $csym; $val;
 then
  echo 'time() found.' >&4
  val="$define"
  rp="What is the type returned by time() on this system?"
  set time_t timetype long stdio.h sys/types.h
  eval $typedef_ask
   else
  echo 'time() not found, hope that will do.' >&4
  val="$undef"
  timetype='int';
   fi
   set d_time
   eval $setvar
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/d_time.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_wifstat.U,v 3.0.1.3 1997/02/28 15:47:43 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_wifstat.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:47:43  ram
```

```
?RCS: patch61: added a ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  14:09:10  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.1  1995/03/21  08:47:46  ram
?RCS: patch52: created
?RCS:
?MAKE:d_wifstat: Compile d_uwait Oldconfig cat rm
?MAKE: -pick add $@ %<
?S:d_wifstat:
?S: This symbol conditionally defines USE_WIFSTAT
 if the C program can
?S: safely use the WIFxxx macros with the kind of wait() parameter
?S: declared in the program (see UNION_WAIT), or if it can't. Should
?S: only matter on HP-UX, where the macros are incorrectly written and
?S: therefore cause programs using them with an 'union wait' variable
?S: to not compile properly.
?S:.
?C:USE_WIFSTAT:
?C: This symbol, if defined, indicates to the C program that the argument
?C: for the WIFxxx set of macros such as WIFSIGNALED or WIFEXITED can
?C: be of the same kind as the one used to hold the wait() status. Should
?C: only matter on HP-UX, where the macros are incorrectly written and
?C: therefore cause programs using them with an 'union wait' variable
?C: to not compile properly. See also UNION_WAIT.
?C:.
?H:#$d_wifstat USE_WIFSTAT  /**/
?H:.
?T:type
?F:!foo
: see if we can use WIFxxx macros
echo " "
case "$d_wifstat" in
"$define") echo "As before, you can safely use WIFEXITED and friends!" >&4;;
"$undef") echo "You still can't use WIFEXITED
 and friends!" >&4;;
*)
 echo "Let's see whether you can use the WIFEXITED(status) macro and its"
 case "$d_uwait" in
 "$define") type='union wait';;
 *) type='int';;
 esac
 echo "friends with status declared as '$type status'..."
 $cat >foo.c <<EOCP
#include <sys/types.h>
#include <sys/wait.h>
```

```
int main()
{
 $type status;
 int e = 0;

#ifdef WIFEXITED
 if (WIFEXITED(status))
  printf("\n");
 exit(0);
#else
 exit(2);
#endif
}
EOCP
 d_wifstat="$undef"
 set foo
 if eval $compile; then
  if ./foo >/dev/null; then
   echo "Great! Looks like we can use the WIFxxx macros." >&4
   d_wifstat="$define"
  else
   echo "You don't seem to have WIFxxx macros, but that's ok." >&4
  fi
 else
  echo "Apparently you can't use WIFxxx macros properly." >&4
 fi
 $rm -f foo.* foo core
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_wifstat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_xdrs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_xdrs.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:04  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?MAKE:d_xdrs: cat Csym Setvar
?MAKE: -pick add $@ %<
?S:d_xdrs:
?S: This symbol conditionally defines HAS_XDRS which indicates to the C
?S: program that XDR serialization routines are available.
?S:.
?C:HAS_XDRS (XDRS):
?C: This symbol if defined indicates to the C program that the XDR
?C: serialization routines are available to transfer data
 accross
?C: various architectures.
?C:.
?H:#$d_xdrs HAS_XDRS /**/
?H:.
?LINT:set d_xdrs
: see if XDR is available
echo " "
if set xdr_int val -f d_xdrs; eval $csym; $val; then
 echo "Ahh! You have XDR routines for network communications." >&4
 val="$define"
else
 $cat >&4 <<EOM
Sigh! You do not have XDR routines -- Network communications may be hazardous.
EOM
 val="$undef"
fi
set d_xdrs
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_xdrs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_regex.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Sidney C. Smith <scsmith@cbda9.apgea.army.mil>
?RCS:
?RCS: $Log: i_regex.U,v $
```

```
?RCS: Revision 3.0.1.1  1995/01/30  14:35:45  ram
?RCS: patch49: created
?RCS:
?RCS:
?MAKE:i_regex: Inhdr
?MAKE: -pick add $@ %<
?S:i_regex:
?S: This variable conditionally defines the I_REGEX symbol, which
?S: indicates to the C program that <regex.h> exists and should
?S: be included.
?S:.
?C:I_REGEX:
?C: This symbol, if defined, indicates that <regex.h> exists
 and should
?C: be included.
?C:.
?H:#$i_regex I_REGEX /**/
?H:.
?LINT:set i_regex
: see if regex is available
set regex.h i_regex
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_regex.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_neterrno.U,v 3.0.1.3 1994/10/29 16:20:29 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_neterrno.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:20:29  ram
?RCS: patch36: forgot to initialize 'val' to an empty value (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:22:10  ram
?RCS: patch32: removed spurious echo
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:02:05  ram
```

```
?RCS: patch30: created by ADO
?RCS:
?MAKE:i_neterrno: Inhdr +cc +ccflags rm_try Setvar
?MAKE: -pick
 add $@ %<
?S:i_neterrno:
?S: This variable conditionally defines the I_NET_ERRNO symbol, which
?S: indicates to the C program that <net/errno.h> exists and should
?S: be included.
?S:.
?C:I_NET_ERRNO:
?C: This symbol, if defined, indicates that <net/errno.h> exists and
?C: should be included.
?C:.
?H:#$i_neterrno I_NET_ERRNO  /**/
?H:.
?LINT:set i_neterrno
: see if net/errno.h is available
val=''
set net/errno.h val
eval $inhdr

: Unfortunately, it causes problems on some systems.  Arrgh.
case "$val" in
$define)
 cat > try.c <<'EOM'
#include <stdio.h>
#include <errno.h>
#include <net/errno.h>
int func()
{
 return ENOTSOCK;
}
EOM
 if $cc $ccflags -c try.c >/dev/null 2>&1; then
  echo "We'll be including <net/errno.h>." >&4
 else
  echo "We won't be including <net/errno.h>." >&4
  val="$undef"
 fi
 $rm_try
 ;;
esac
set i_neterrno
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/modified/i_neterrno.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_ieeefp.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_ieeefp: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_ieeefp:
?S: This variable conditionally defines the I_IEEEFP symbol, and indicates
?S: whether a C program should include <ieeefp.h>.
?S:.
?C:I_IEEEFP:
?C: This symbol, if defined, indicates that <ieeefp.h> exists and
?C: should be included.
?C:.
?H:#$i_ieeefp I_IEEEFP  /**/
?H:.
?LINT:set i_ieeefp
: see if this is a ieeefp.h system
case "$i_ieeefp" in
" ) set ieeefp.h i_ieeefp
   eval $inhdr
   ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_ieeefp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pread.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_pread.U,v $
?RCS:
?MAKE:d_pread: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_pread:
?S: This variable conditionally defines the HAS_PREAD symbol, which
?S: indicates to the C program that the pread() routine is available.
?S:.
?C:HAS_PREAD :
?C: This symbol, if defined, indicates that the pread routine is
?C: available to perform reads on a file descriptor at a given offset.
?C:.
?H:#$d_pread HAS_PREAD  /**/
?H:.
?LINT:set d_pread
: see if pread exists
set
 pread d_pread
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_pread.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: stdchar.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:stdchar: contains Findhdr cppstdin cppminus rm
?MAKE: -pick add $@ %<
?S:stdchar:
?S: This variable conditionally defines STDCHAR to be the type of char
?S: used in stdio.h.  It has the values "unsigned char" or "char".
?S:.
?C:STDCHAR:
?C: This symbol is defined to be the type of char used in stdio.h.
?C: It has the values "unsigned char" or "char".
?C:.
?H:#define STDCHAR $stdchar /**/
?H:.
```

```
?F:!stdioh
:
 see what type of char stdio uses.
echo " "
?X: untangle the #include nest
echo '#include <stdio.h>' | $cppstdin $cppminus > stdioh
if $contains 'unsigned.*char.*_ptr;' stdioh >/dev/null 2>&1 ; then
 echo "Your stdio uses unsigned chars." >&4
 stdchar="unsigned char"
else
 echo "Your stdio uses signed chars." >&4
 stdchar="char"
fi
$rm -f stdioh
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/stdchar.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endgrent.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_endgrent.U,v $
?RCS:
?MAKE:d_endgrent: Inlibc
?MAKE: -pick add $@ %<
?S:d_endgrent:
?S: This variable conditionally defines the HAS_ENDGRENT symbol, which
?S: indicates to the C program that the endgrent() routine is available
?S: for sequential access of the group database.
?S:.
?C:HAS_ENDGRENT:
?C: This symbol, if defined, indicates that the getgrent routine is
?C: available for finalizing sequential access of the group database.
?C:.
?H:#$d_endgrent HAS_ENDGRENT  /**/
?H:.
?LINT:set d_endgrent
: see if endgrent exists
set endgrent d_endgrent
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_endgrent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_atolf: Inlibc
?MAKE: -pick add $@ %<
?S:d_atolf:
?S: This variable conditionally defines the HAS_ATOLF symbol, which
?S: indicates to the C program that the atolf() routine is available.
?S:.
?C:HAS_ATOLF:
?C: This symbol, if defined, indicates that the atolf routine is
?C: available to convert strings into long doubles.
?C:.
?H:#$d_atolf HAS_ATOLF  /**/
?H:.
?LINT:set d_atolf
: see if atolf exists
set atolf d_atolf
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/atolf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: cpp_trad.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cpp_stuff.U,v $
?MAKE:cpp_trad: cpp cat contains rm
?MAKE: -pick add $@ %<
?S:cpp_trad:
?S: This variable contains the program to run to get traditional C
```

```
?S: preprocessor semantics and not ISO C semantics: we want something
?S: that knows as little about C as possible to use as a more general
?S: purpose preprocessor.
?S:.
?F:!foo.c !foo.cpp
: how do we get traditional cpp semantics?
echo " "
echo "Checking to see how to get traditional cpp semantics..."
 >&4
$cat >foo.c <<'EOF'
#define A(x) x
#define B(y) y
A(a)B(b)
EOF
if $cpp foo.c >foo.cpp; $contains ab foo.cpp >/dev/null 2>&1; then
 echo "Plain '$cpp' works just fine."
 cpp_trad="$cpp"
elif $cpp -traditional foo.c >foo.cpp; \
 $contains ab foo.cpp >/dev/null 2>&1; then
 echo "We'll use '$cpp -traditional' to get proper semantics."
 cpp_trad="$cpp -traditional"
else
 echo "I don't know how to get traditional semantics with '$cpp'." >&4
 cpp_trad="$cpp"
fi
$rm -f foo.c foo.cpp
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/cpp_trad.U
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```
?RCS: $Id: d_scorfl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_scorfl.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_scorfl: cat Myread Oldconfig nametype Setvar
?MAKE: -pick add $@ %<
```

```
?S:d_scorfl:
?S: This variable conditionally defines the SCOREFULL symbol, which
?S: indicates to the C program that any scoreboard kept by the program
?S: should be kept on the basis of the user's full name as opposed to
?S: the user's login name.
?S:.
?C:SCOREFULL:
?C: This
 symbol, if defined, indicates that any scoreboard kept by the
?C: program should be kept on the basis of the user's full name as opposed
?C: to the user's login name.  If the user can change his full name he
?C: can enter multiple scores if this is defined.
?C:.
?H:#$d_scorfl SCOREFULL /**/
?H:.
?LINT:set d_scorfl
: see how they want the scoreboard kept
case "$d_scorfl" in
"$define") dflt=y ;;
*) dflt=n ;;
esac
case "$nametype" in
other) val="$undef" ;;
*)
 $cat <<'EOM'

The scoreboard can be kept with one score per login name, or one score per full
name.  If users can change their full name, or if there is more than one person
on your system with the same full name, you should keep the score by login name
(the full name is still printed).

EOM
 rp='Do you want the scoreboard kept by full name?'
 . ./myread
 case "$ans" in
 y*) val="$define" ;;
 *) val="$undef" ;;
 esac
 ;;
esac
set d_scorfl
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_scorfl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getprotoent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getprotoent_r getprotoent_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getprotoent_r:
?S: This variable conditionally defines the HAS_GETPROTOENT_R symbol,
?S: which indicates to the C program that the getprotoent_r()
?S: routine is available.
?S:.
?S:getprotoent_r_proto:
?S: This variable encodes the prototype of getprotoent_r.
?S: It is zero if d_getprotoent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getprotoent_r
?S: is defined.
?S:.
?C:HAS_GETPROTOENT_R:
?C: This symbol, if defined, indicates that the getprotoent_r
 routine
?C: is available to getprotoent re-entrantly.
?C:.
?C:GETPROTOENT_R_PROTO:
?C: This symbol encodes the prototype of getprotoent_r.
?C: It is zero if d_getprotoent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getprotoent_r
?C: is defined.
?C:.
?H:#$d_getprotoent_r HAS_GETPROTOENT_R /**/
?H:#define GETPROTOENT_R_PROTO $getprotoent_r_proto /**/
?H:.
?T:try hdrs d_getprotoent_r_proto
: see if getprotoent_r exists
set getprotoent_r d_getprotoent_r
eval $inlibc
case "$d_getprotoent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getprotoent_r_proto:$usethreads" in
 ":define") d_getprotoent_r_proto=define
  set d_getprotoent_r_proto getprotoent_r $hdrs
  eval $hasproto ;;
 *) ;;
```

```
 esac
 case "$d_getprotoent_r_proto" in
 define)
 case "$getprotoent_r_proto" in
 "|0) try='int getprotoent_r(struct protoent*, char*, size_t, struct protoent**);'
 ./protochk "$extern_C $try" $hdrs && getprotoent_r_proto=I_SBWR
 ;;
 esac
 case "$getprotoent_r_proto" in
 "|0) try='int getprotoent_r(struct protoent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getprotoent_r_proto=I_SBI ;;
 esac
 case "$getprotoent_r_proto" in
 "|0) try='struct protoent* getprotoent_r(struct protoent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getprotoent_r_proto=S_SBI ;;
 esac
 case "$getprotoent_r_proto" in
 "|0) try='int getprotoent_r(struct protoent*, struct protoent_data*);'
 ./protochk "$extern_C $try" $hdrs && getprotoent_r_proto=I_SD ;;
 esac
 case "$getprotoent_r_proto" in
 "|0) d_getprotoent_r=undef
  getprotoent_r_proto=0
  echo "Disabling getprotoent_r, cannot determine prototype." >&4 ;;
 * ) case "$getprotoent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getprotoent_r_proto="REENTRANT_PROTO_$getprotoent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getprotoent_r has no prototype, not using it." >&4 ;;
  esac
  d_getprotoent_r=undef
  getprotoent_r_proto=0
  ;;
 esac
 ;;
*) getprotoent_r_proto=0
 ;;
esac
```

Found
 in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getprotoent_r.U

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```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_tgamma: Inlibc
?MAKE: -pick add $@ %<
?S:d_tgamma:
?S: This variable conditionally defines the HAS_TGAMMA symbol, which
?S: indicates to the C program that the tgamma() routine is available
?S: for the gamma function.  See also d_lgamma.
?S:.
?C:HAS_TGAMMA:
?C: This symbol, if defined, indicates that the tgamma routine is
?C: available to do the gamma function. See also HAS_LGAMMA.
?C:.
?H:#$d_tgamma HAS_TGAMMA  /**/
?H:.
?LINT:set d_tgamma
: see if tgamma exists
set tgamma d_tgamma
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_tgamma.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: man3dir.U,v 3.1 1999/07/08 20:52:19 doughera Exp doughera $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: man3dir.U,v $
?RCS: Revision 3.1  1999/07/08 20:52:19  doughera
?RCS: Updated for perl5.005_5x
?RCS:
?RCS: Revision 3.0.1.1  1997/02/28  16:10:34  ram
?RCS: patch61: created
?RCS:
?X: This was originally specific to perl5.  Since perl5 has man pages that
?X: go in both man1/ and man3/ directories, we need both man1dir
```

```
?X: and man3dir.  This unit is basically dist's mansrc.U with
?X: man3 used instead
 of man everywhere.
?X: I then added various tests because perl5 has *lots* of man3
?X: pages with long file names. -- ADO
?X:
?MAKE:man3dir man3direxp man3ext installman3dir: cat nroff Loc Oldconfig \
 sed man1dir spackage package Getfile Setprefixvar Prefixit Prefixup \
 d_flexfnam privlib Myread test
?MAKE: -pick add $@ %<
?Y:TOP
?D:man3dir=''
?S:man3dir:
?S: This variable contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?D:man3direxp=''
?S:man3direxp:
?S: This variable is the same as the man3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installman3dir=''
?S:installman3dir:
?S: This variable is really the same as man3direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man3direxp only
 points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:man3ext:
?S: This variable contains the extension that the manual page should
?S: have: one of 'n', 'l', or '3'.  The Makefile must supply the '.'.
?S: See man3dir.
?S:.
?T:prog tdflt
?LINT:change prefixvar
?LINT:set man3direxp
: determine where library module manual pages go
set man3dir man3dir none
eval $prefixit
$cat <<EOM

$spackage has manual pages for many of the library modules.
EOM

case "$nroff" in
```

```
nroff)
 $cat <<'EOM'
However, you don't have nroff, so they're probably useless to you.
EOM
 case "$man3dir" in
 ") man3dir="none";;
 esac;;
esac

case "$d_flexfnam" in
undef)
 $cat <<'EOM'
However, your system can't handle the long file names like File::Basename.3.
EOM
 case "$man3dir" in
 ") man3dir="none";;
 esac;;
esac

echo "If you don't want the manual sources installed, answer 'none'."
?X: In 5.005_57 and earlier, I had the following notes:
?X:
 We do not use /usr/local/man/man3 because some man programs will
?X: only show the /usr/local/man/man3 contents, and not the system ones,
?X: thus man less will show the perl module less.pm, but not the system
?X: less command.  We might also conflict with Tcl man pages.
?X: However, something like /opt/perl/man/man3 is fine.
?X:
?X: However, opinion seems to be shifting such that 'man POSIX' ought
?X: to just work.  -- Andy Dougherty  July 8, 1999
?X:
?X: remove any trailing -3.0 or other version indication from $package
prog=`echo $package | $sed 's/-*[0-9.]*$//'`
case "$man3dir" in
") dflt=`echo "$man1dir" | $sed -e 's/man1/man3/g' -e 's/man\.1/man\.3/g'`
 if $test -d "$privlib/man/man3"; then
  cat <<EOM >&4

WARNING:  Previous versions of perl installed man3 pages into
$privlib/man/man3.  This version will suggest a
new default of $dflt.
EOM
  tdflt=$dflt
  dflt='n'
  rp='Do you wish to preserve the old behavior?(y/n)'
  . ./myread
  case "$ans" in
  y*) dflt="$privlib/man/man3"
```

```
 ;;
  *)  dflt=$tdflt ;;
  esac
   fi
 ;;
*) dflt="$man3dir" ;;
esac
case "$dflt" in
' ') dflt=none ;;
esac
echo " "
fn=dn+~
rp="Where do the $package library man pages (source) go?"
. ./getfile
prefixvar=man3dir
. ./setprefixvar

case "$man3dir" in
") man3dir=' '
 installman3dir=";;
esac

: What suffix to use on installed man pages
case "$man3dir" in
' ')
 man3ext='0'
 ;;
*)
 rp="What suffix should be used for the $package library man pages?"
 case "$man3ext" in
 ") case "$man3dir" in
  *3)  dflt=3 ;;
  *3p) dflt=3p ;;
  *3pm) dflt=3pm ;;
  *l) dflt=l;;
  *n) dflt=n;;
  *o) dflt=o;;
  *p) dflt=p;;
  *C) dflt=C;;
  *L) dflt=L;;
  *L3) dflt=L3;;
  *) dflt=3;;
  esac
  ;;
 *) dflt="$man3ext";;
 esac
 . ./myread
 man3ext="$ans"
```

```
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/man3dir.U
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```
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?RCS:
?MAKE:d_strtold_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtold_l:
?S: This variable conditionally defines the HAS_STRTOLD_L symbol, which
?S: indicates to the C program that the strtold_l() routine is available.
?S:.
?C:HAS_STRTOLD_L:
?C: This symbol, if defined, indicates that the strtold_l routine is
?C: available to convert strings to long doubles.
?C:.
?H:#$d_strtold_l HAS_STRTOLD_L  /**/
?H:.
?LINT:set d_strtold_l
: see if strtold_l exists
set strtold_l d_strtold_l
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_strtold_l.U
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```
?RCS: $Id: d_sitecustomize.U,v $
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?RCS:
?RCS: $Log: d_sitecustomize.U,v $
?RCS:
?MAKE:usesitecustomize: Oldconfig Setvar
?MAKE: -pick add $@ %<
```

```
?S:usesitecustomize:
?S: This variable is set to true when the user requires a mechanism that
?S: allows the sysadmin to add entries to @INC at runtime.  This variable
?S: being set, makes perl run '$sitelib/sitecustomize.pl' at startup.
?S:.
?C:USE_SITECUSTOMIZE:
?C: This symbol, if defined, indicates that sitecustomize should
?C: be used.
?C:.
?H:?%<:@if USE_SITECUSTOMIZE
?H:?%<:#ifndef USE_SITECUSTOMIZE
?H:?%<:#$usesitecustomize USE_SITECUSTOMIZE  /**/
?H:?%<:#endif
?H:?%<:@end
?H:.
: Check if site customization support was requested
case "$usesitecustomize" in
   $define|true|[Yy]*)
 usesitecustomize="$define"
 ;;
    *)
 usesitecustomize="$undef"
 ;;
   esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_sitecustomize.U
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```
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?RCS:
?RCS: $Log: d_setpgrp.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:44:16  ram
?RCS: patch61: obsoleted USE_BSDGRP in favor of USE_BSD_SETPGRP
?RCS: patch61: another unit now also defines a USE_BSD_GETPGRP
?RCS: patch61: fallback for test program failure improved
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  13:59:30  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
```

```
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:15:37  ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
 patch36: call ./usg explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setpgrp d_bsdsetpgrp: cat rm +cc +libs +ccflags \
 +ldflags Inlibc Guess Setvar i_unistd
?MAKE: -pick add $@ %<
?S:d_setpgrp:
?S: This variable conditionally defines HAS_SETPGRP if setpgrp() is
?S: available to set the current process group.
?S:.
?S:d_bsdsetpgrp (d_bsdpgrp):
?S: This variable conditionally defines USE_BSD_SETPGRP if
?S: setpgrp needs two arguments whereas USG one needs none.
?S: See also d_setpgid for a POSIX interface.
?S:.
?C:HAS_SETPGRP (SETPGRP):
?C: This symbol, if defined, indicates that the setpgrp routine is
?C: available to set the current process group.
?C:.
?C:USE_BSD_SETPGRP (USE_BSDPGRP BSDPGRP):
?C: This symbol, if defined, indicates that setpgrp needs two
?C: arguments whereas USG one needs none.  See also HAS_SETPGID
?C: for a POSIX interface.
?C:.
?H:#$d_setpgrp HAS_SETPGRP  /**/
?H:#$d_bsdsetpgrp
 USE_BSD_SETPGRP /**/
?H:.
?F:!set.c !set
?T:xxx
?LINT:set d_setpgrp d_bsdsetpgrp
: see if setpgrp exists
set setpgrp d_setpgrp
eval $inlibc

@if USE_BSD_SETPGRP || d_bsdsetpgrp
case "$d_setpgrp" in
"$define")
 echo " "
 echo "Checking to see which flavor of setpgrp is in use..."
 $cat >set.c <<EOP
#$i_unistd I_UNISTD
```

```
#include <sys/types.h>
#ifdef I_UNISTD
#  include <unistd.h>
#endif
int main()
{
 if (getuid() == 0) {
  printf("(I see you are running Configure as super-user...)\n");
  setuid(1);
 }
#ifdef TRY_BSD_PGRP
 if (-1 == setpgrp(1, 1))
  exit(0);
#else
 if (setpgrp() != -1)
  exit(0);
#endif
 exit(1);
}
EOP
 if $cc -DTRY_BSD_PGRP $ccflags $ldflags -o set set.c $libs >/dev/null 2>&1 && ./set; then
  echo 'You have to use setpgrp(pid,pgrp) instead of setpgrp().' >&4
  val="$define"
 elif $cc $ccflags $ldflags -o set set.c $libs >/dev/null 2>&1 && ./set; then
  echo 'You have to use setpgrp() instead of setpgrp(pid,pgrp).' >&4
  val="$undef"
 else
  echo "(I can't
 seem to compile and run the test program.)"
  if ./usg; then
   xxx="a USG one, i.e. you use setpgrp()."
  else
   # SVR4 systems can appear rather BSD-ish.
   case "$i_unistd" in
   $undef)
    xxx="a BSD one, i.e. you use setpgrp(pid,pgrp)."
    val="$define"
    ;;
   $define)
    xxx="probably a USG one, i.e. you use setpgrp()."
    val="$undef"
    ;;
   esac
  fi
  echo "Assuming your setpgrp is $xxx" >&4
 fi
 ;;
*) val="$undef";;
```

```
esac
set d_bsdsetpgrp
eval $setvar
$rm -f set set.c
@end
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setpgrp.U
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```
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?RCS:
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?RCS:
?MAKE:d_siginfo_si_errno d_siginfo_si_pid d_siginfo_si_uid d_siginfo_si_addr d_siginfo_si_status
d_siginfo_si_band d_siginfo_si_value d_siginfo_si_fd: d_sigaction pidtype uidtype Hasfield_t
?MAKE: -pick add $@ %<
?S:d_siginfo_si_errno:
?S: This variable conditionally defines the HAS_SIGINFO_SI_ERRNO symbol,
?S: which indicates that the siginfo_t struct has the si_errno member.
?S:.
?S:d_siginfo_si_pid:
?S: This variable conditionally defines the HAS_SIGINFO_SI_PID symbol,
?S: which indicates that the siginfo_t struct has the si_pid member.
?S:.
?S:d_siginfo_si_uid:
?S: This variable conditionally defines the HAS_SIGINFO_SI_UID symbol,
?S: which indicates that the siginfo_t struct has the si_uid member.
?S:.
?S:d_siginfo_si_addr:
?S: This
 variable conditionally defines the HAS_SIGINFO_SI_ADDR symbol,
?S: which indicates that the siginfo_t struct has the si_addr member.
?S:.
?S:d_siginfo_si_status:
?S: This variable conditionally defines the HAS_SIGINFO_SI_STATUS symbol,
?S: which indicates that the siginfo_t struct has the si_status member.
?S:.
?S:d_siginfo_si_band:
?S: This variable conditionally defines the HAS_SIGINFO_SI_BAND symbol,
?S: which indicates that the siginfo_t struct has the si_band member.
?S:.
?S:d_siginfo_si_value:
?S: This variable conditionally defines the HAS_SIGINFO_SI_VALUE symbol,
?S: which indicates that the siginfo_t struct has the si_value member.
?S:.
```

```
?S:d_siginfo_si_fd:
?S: This variable conditionally defines the HAS_SIGINFO_SI_FD symbol,
?S: which indicates that the siginfo_t struct has the si_fd member.
?S:.
?C:HAS_SIGINFO_SI_ERRNO:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_errno member
?C:.
?C:HAS_SIGINFO_SI_PID:
?C: This
 symbol, if defined, indicates that siginfo_t has the
?C: si_pid member
?C:.
?C:HAS_SIGINFO_SI_UID:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_uid member
?C:.
?C:HAS_SIGINFO_SI_ADDR:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_addr member
?C:.
?C:HAS_SIGINFO_SI_STATUS:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_status member
?C:.
?C:HAS_SIGINFO_SI_BAND:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_band member
?C:.
?C:HAS_SIGINFO_SI_VALUE:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_value member
?C:.
?C:HAS_SIGINFO_SI_FD:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_fd member
?C:.
?H:#$d_siginfo_si_errno HAS_SIGINFO_SI_ERRNO /**/
?H:#$d_siginfo_si_pid HAS_SIGINFO_SI_PID /**/
?H:#$d_siginfo_si_uid HAS_SIGINFO_SI_UID /**/
?H:#$d_siginfo_si_addr HAS_SIGINFO_SI_ADDR /**/
?H:#$d_siginfo_si_status HAS_SIGINFO_SI_STATUS /**/
?H:#$d_siginfo_si_band HAS_SIGINFO_SI_BAND /**/
?H:#$d_siginfo_si_value HAS_SIGINFO_SI_VALUE /**/
?H:#$d_siginfo_si_fd HAS_SIGINFO_SI_FD /**/
?H:.
:
```

```
 see what siginfo fields we have
case "$d_sigaction" in
"$define")
 echo "Checking if your siginfo_t has si_errno field...">&4
 set d_siginfo_si_errno siginfo_t int si_errno $d_sigaction signal.h
 eval $hasfield_t;

 echo "Checking if your siginfo_t has si_pid field...">&4
 set d_siginfo_si_pid siginfo_t $pidtype si_pid $d_sigaction signal.h
 eval $hasfield_t;

 echo "Checking if your siginfo_t has si_uid field...">&4
 set d_siginfo_si_uid siginfo_t $uidtype si_uid $d_sigaction signal.h
 eval $hasfield_t;

 echo "Checking if your siginfo_t has si_addr field...">&4
 set d_siginfo_si_addr siginfo_t "void *" si_addr $d_sigaction signal.h
 eval $hasfield_t;

 echo "Checking if your siginfo_t has si_status field...">&4
 set d_siginfo_si_status siginfo_t int si_status $d_sigaction signal.h
 eval $hasfield_t;

 echo "Checking if your siginfo_t has si_band field...">&4
 set
 d_siginfo_si_band siginfo_t long si_band $d_sigaction signal.h
 eval $hasfield_t;

 echo "Checking if your siginfo_t has si_value field...">&4
 set d_siginfo_si_value siginfo_t "union sigval" si_value $d_sigaction signal.h
 eval $hasfield_t;

 echo "Checking if your siginfo_t has si_fd field...">&4
 set d_siginfo_si_fd siginfo_t int si_fd $d_sigaction signal.h
 eval $hasfield_t;

 ;;
*)
 d_siginfo_si_errno="$undef"
 d_siginfo_si_pid="$undef"
 d_siginfo_si_uid="$undef"
 d_siginfo_si_addr="$undef"
 d_siginfo_si_status="$undef"
 d_siginfo_si_band="$undef"
 d_siginfo_si_value="$undef"
 d_siginfo_si_fd="$undef"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_siginfo_si.U
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```
?RCS: $Id: Warn_v7ND.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Warn_v7ND.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:01:46  ram
?RCS: patch36: call ./v7 explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:18  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit warns V7 sites that they may not have a non-blocking read.
?X: This unit needs to be mentioned in End.U to get included.
?X:
?MAKE:Warn_v7ND: package Guess
?MAKE: -pick add $@ %<
: Warnings
if ./v7; then
 cat
 <<EOM

NOTE: many V7 systems do not have a way to do a non-blocking read.  If you
don't have any of FIONREAD, O_NDELAY, or rdchk(), the $package package
may not work as well as it might.  It might not work at all.
EOM
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Warn_v7ND.U
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```
?RCS: $Id: d_su_chown.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_su_chown.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:40  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_su_chown: Csym Setvar
?MAKE: -pick add $@ %<
?S:d_su_chown (d_rootchown):
?S: This variable conditionally defines the SU_CHOWN symbol, which
?S: indicates to the C program that only root can chown() the owner
?S: of a file.
?S:.
?C:SU_CHOWN (ROOT_CHOWN):
?C: This symbol, if defined, indicates that the system allows only root
?C: can
 change the owner of a file with chown().
?C:.
?H:#$d_su_chown SU_CHOWN /**/
?H:.
?LINT:set d_su_chown
: see if 'chown()' is restricted.
: but not too hard, as it is late and I am tired. -- HMS
echo " "
if set setreuid val -f d_su_chown; eval $csym; $val; then
 echo 'It looks like only root can chown() the owner of a file.' >&4
 val="$define"
else
 echo 'It looks like root or the owner can chown() a file away.' >&4
 val="$undef"
fi
set d_su_chown
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_su_chown.U
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```
?RCS: $Id: scriptdir.U,v 3.1 1999/07/09 18:20:13 doughera Exp doughera $
?RCS:
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?RCS:
```

```
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: scriptdir.U,v $
?RCS: Revision 3.1  1999/07/09 18:20:13  doughera
?RCS: Updated for installprefix
?RCS:
?RCS: Revision 3.0.1.3  1995/09/25  09:17:15  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:46:13  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:32:04  ram
?RCS: patch32: now uses installation prefix
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:09:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:scriptdir scriptdirexp installscript: cat test Getfile Loc \
 Oldconfig +bin Prefixit Setprefixvar prefixexp Prefixup
?MAKE: -pick add $@ %<
?Y:TOP
?D:scriptdir="
?S:scriptdir:
?S: This variable holds the name of the directory in which the user wants
?S: to put publicly scripts for the package in question.  It is either
?S: the same directory as for binaries, or a special one that can be
?S: mounted across different architectures, like /usr/share. Programs
?S: must be prepared to deal with ~name expansion.
?S:.
?D:scriptdirexp="
?S:scriptdirexp:
?S: This variable is the same as scriptdir, but is filename expanded
?S: at configuration time, for programs not wanting to bother with it.
?S:.
?S:installscript:
?S: This variable is usually the same as scriptdirexp, unless you are on
?S: a system running AFS, in which case they may differ slightly. You
?S: should always use this variable
 within your makefiles for portability.
?S:.
?C:SCRIPTDIR:
?C: This symbol holds the name of the directory in which the user wants
```

```
?C: to put publicly executable scripts for the package in question.  It
?C: is often a directory that is mounted across diverse architectures.
?C: Programs must be prepared to deal with ~name expansion.
?C:.
?C:SCRIPTDIR_EXP:
?C: This is the same as SCRIPTDIR, but is filename expanded at
?C: configuration time, for use in programs not prepared to do
?C: ~name substitutions at run-time.
?C:.
?H:#define SCRIPTDIR "$scriptdir" /**/
?H:#define SCRIPTDIR_EXP "$scriptdirexp" /**/
?H:.
?T:installscriptdir
?LINT:change prefixvar
?LINT:set scriptdir
?LINT:set scriptdirexp
: determine where public executable scripts go
set scriptdir scriptdir
eval $prefixit
case "$scriptdir" in
")
 dflt="$bin"
 : guess some guesses
 $test -d /usr/share/scripts && dflt=/usr/share/scripts
 $test -d /usr/share/bin     && dflt=/usr/share/bin
 $test -d /usr/local/script  && dflt=/usr/local/script
 $test
 -d /usr/local/scripts && dflt=/usr/local/scripts
 $test -d $prefixexp/script  && dflt=$prefixexp/script
 set dflt
 eval $prefixup
 ;;
*)  dflt="$scriptdir"
 ;;
esac
$cat <<EOM

Some installations have a separate directory just for executable scripts so
that they can mount it across multiple architectures but keep the scripts in
one spot.  You might, for example, have a subdirectory of /usr/share for this.
Or you might just lump your scripts in with all your other executables.

EOM
fn=d~
rp='Where do you keep publicly executable scripts?'
. ./getfile
if $test "X$ansexp" != "X$scriptdirexp"; then
 installscript="
```

```
fi
installscriptdir=''
prefixvar=scriptdir
. ./setprefixvar
: A little fix up for an irregularly named variable.
installscript="$installscriptdir"
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/scriptdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_keepsig.U,v $
?RCS: Revision 3.0.1.4  1995/07/25  13:57:56  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:26:25  ram
?RCS: patch45: protected "sh -c" within backquotes for Linux and SGI
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:13:59  ram
?RCS: patch36: call ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.1  1993/10/16  13:48:47  ram
?RCS: patch12: comment for SIGNALS_KEPT was the other way round
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:06:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_keepsig: cat Compile rm Guess contains echo n c Setvar run
?MAKE: -pick add $@ %<
?S:d_keepsig:
?S: This variable contains the eventual value of the SIGNALS_KEPT symbol,
?S: which indicates to the C program if signal handlers need not reinstated
?S: after receipt of a signal.
?S:.
?C:SIGNALS_KEPT (PERSISTENT_SIGNAL):
?C: This symbol is defined if signal handlers needn't be reinstated after
```

```
?C: receipt of a signal.
?C:.
?H:#$d_keepsig SIGNALS_KEPT /**/
?H:.
?F:!try !try.out
?LINT:set d_keepsig
: see if signals are kept
val="$undef";
echo " "
echo "Checking to see if signal handlers stick around..." >&4
$cat >try.c <<'EOCP'
foo() {}

int main()
{
 signal(2, foo);
 kill(getpid(), 2);
 kill(getpid(), 2);
 printf("abc\n");
}
EOCP
set try
if eval $compile; then
?X: On AIX a single ./try will not work (with ksh)
?X: Backquotes required on Linux and SGI (prevents "ambiguous output redirect")
?X:
 (reported by Xavier LeVourch <xavierl@eiffel.com>)
 echo `sh -c $run ./try >try.out 2>/dev/null` >/dev/null
 if $contains abc try.out >/dev/null 2>&1; then
  echo "Yes, they do."
  val="$define";
 else
  echo "No, they don't."
 fi
else
 $echo $n "(I can't seem to compile the test program. Assuming $c"
 if ./bsd; then
  echo "they do.)"
  val="$define"
 else
  echo "they don't.)"
 fi
fi
set d_keepsig
eval $setvar
$rm -f try*

Found in path(s):
```

* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_keepsig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: ebcdic.U,v 3.0.1.3 1994/05/06 15:11:49 doughera Exp $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Original author Jarkko Hietaniemi <jhi@iki.fi>
?RCS: Merged into dist by Andy Dougherty  July 13, 1998
?RCS:
?MAKE:ebcdic: Compile Setvar cat rm_try run
?MAKE: -pick add $@ %<
?S:ebcdic:
?S: This variable conditionally defines EBCDIC if this
?S: system uses EBCDIC encoding.
?S:.
?C:EBCDIC:
?C: This symbol, if defined, indicates that this system uses
?C: EBCDIC encoding.
?C:.
?H:#$ebcdic EBCDIC  /**/
?H:.
?F:!try
?LINT:set ebcdic
: Determine if this is an EBCDIC system
echo " "
echo "Determining whether or not we are on an EBCDIC system..." >&4
$cat >try.c <<'EOM'
int main()
{
 if ('M'==0xd4) return 0;
 return 1;
}
EOM

val=$undef
set try
if eval
 $compile_ok; then
 if $run ./try; then
  echo "You seem to speak EBCDIC." >&4
  val="$define"
 else
  echo "Nope, no EBCDIC, probably ASCII or some ISO Latin. Or UTF-8." >&4
```

```
 fi
else
 echo "I'm unable to compile the test program." >&4
 echo "I'll assume ASCII or some ISO Latin. Or UTF8." >&4
fi
$rm_try
set ebcdic
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/ebcdic/ebcdic.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: scriptdir.U,v $
?RCS: Revision 3.0.1.3  1995/09/25  09:17:15  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:46:13  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:32:04  ram
?RCS: patch32: now uses installation prefix
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:scriptdir scriptdirexp installscript:
 afs cat test Getfile Loc \
 Oldconfig +bin Prefixit prefixexp Prefixup
?MAKE: -pick add $@ %<
?Y:TOP
?S:scriptdir:
?S: This variable holds the name of the directory in which the user wants
?S: to put publicly scripts for the package in question.  It is either
?S: the same directory as for binaries, or a special one that can be
?S: mounted across different architectures, like /usr/share. Programs
?S: must be prepared to deal with ~name expansion.
```

```
?S:.
?S:scriptdirexp:
?S: This variable is the same as scriptdir, but is filename expanded
?S: at configuration time, for programs not wanting to bother with it.
?S:.
?S:installscript:
?S: This variable is usually the same as scriptdirexp, unless you are on
?S: a system running AFS, in which case they may differ slightly. You
?S: should always use this variable within your makefiles for portability.
?S:.
?C:SCRIPTDIR:
?C: This symbol holds the name of the directory in which the user wants
?C: to put publicly executable scripts for the
 package in question.  It
?C: is often a directory that is mounted across diverse architectures.
?C: Programs must be prepared to deal with ~name expansion.
?C:.
?C:SCRIPTDIR_EXP:
?C: This is the same as SCRIPTDIR, but is filename expanded at
?C: configuration time, for use in programs not prepared to do
?C: ~name substitutions at run-time.
?C:.
?H:#define SCRIPTDIR "$scriptdir" /**/
?H:#define SCRIPTDIR_EXP "$scriptdirexp" /**/
?H:.
: determine where public executable scripts go
set scriptdir scriptdir
eval $prefixit
case "$scriptdir" in
")
 dflt="$bin"
 : guess some guesses
 $test -d /usr/share/scripts && dflt=/usr/share/scripts
 $test -d /usr/share/bin && dflt=/usr/share/bin
 $test -d /usr/local/script && dflt=/usr/local/script
 $test -d $prefixexp/script && dflt=$prefixexp/script
 set dflt
 eval $prefixup
 ;;
*)  dflt="$scriptdir"
 ;;
esac
$cat <<EOM

Some installations have a separate directory just for executable scripts so
that they can mount it across multiple architectures but
 keep the scripts in
one spot.  You might, for example, have a subdirectory of /usr/share for this.
```

```
Or you might just lump your scripts in with all your other executables.

EOM
fn=d~
rp='Where do you keep publicly executable scripts?'
. ./getfile
if $test "X$ansexp" != "X$scriptdirexp"; then
 installscript=''
fi
scriptdir="$ans"
scriptdirexp="$ansexp"
if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
scripts reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installscript" in
 '') dflt=`echo $scriptdirexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installscript";;
 esac
 fn=de~
 rp='Where will public scripts be installed?'
 . ./getfile
 installscript="$ans"
else
 installscript="$scriptdirexp"
fi
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/scriptdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sitelib.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sitelib.U,v $
```

```
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?RCS: Revision 3.0.1.1  1997/02/28  16:21:35  ram
?RCS: patch61: created
?RCS:
?MAKE:sitelib sitelibexp installsitelib sitelib_stem: cat Getfile Oldconfig \
 Setprefixvar Prefixit package version sed installstyle siteprefix
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitelib=''
?S:sitelib:
?S: This variable contains the
 eventual value of the SITELIB symbol,
?S: which is the name of the private library for this package.  It may
?S: have a ~ on the front. It is up to the makefile to eventually create
?S: this directory while performing installation (with ~ substitution).
?S: The standard distribution will put nothing in this directory.
?S: After perl has been installed, users may install their own local
?S: architecture-independent modules in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitelibexp=''
?S:sitelibexp:
?S: This variable is the ~name expanded version of sitelib, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installsitelib=''
?S:installsitelib:
?S: This variable is really the same as sitelibexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?S:sitelib_stem:
?S: This variable is $sitelibexp with any trailing version-specific component
?S: removed.
  The elements in inc_version_list (inc_version_list.U) can
?S: be tacked onto this variable to generate a list of directories to search.
?S:.
?C:SITELIB:
?C: This symbol contains the name of the private library for this package.
?C: The library is private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.  The program
?C: should be prepared to do ~ expansion.
?C: The standard distribution will put nothing in this directory.
?C: After perl has been installed, users may install their own local
?C: architecture-independent modules in this directory with
```

```
?C:  MakeMaker Makefile.PL
?C: or equivalent.  See INSTALL for details.
?C:.
?C:SITELIB_EXP:
?C: This symbol contains the ~name expanded version of SITELIB, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?C:SITELIB_STEM:
?C: This define is SITELIB_EXP with any trailing version-specific component
?C: removed.  The elements in
 inc_version_list (inc_version_list.U) can
?C: be tacked onto this variable to generate a list of directories to search.
?C:.
?H:#define SITELIB "$sitelib"  /**/
?H:#define SITELIB_EXP "$sitelibexp"  /**/
?H:#define SITELIB_STEM "$sitelib_stem"  /**/
?H:.
?T:prog
?LINT:change prefixvar
?LINT:set installsitelib
?LINT:set sitelib
?LINT:set sitelibexp
: determine where site specific libraries go.
: Usual default is /usr/local/lib/perl5/site_perl/$version
: The default "style" setting is made in installstyle.U
: XXX No longer works with Prefixit stuff.
?X: remove any trailing -3.0 or other version identification
prog=`echo $package | $sed 's/-*[0-9.]*$//'`
case "$sitelib" in
") case "$installstyle" in
 *lib/perl5*) dflt=$siteprefix/lib/$package/site_$prog/$version ;;
 *)  dflt=$siteprefix/lib/site_$prog/$version ;;
 esac
 ;;
*) dflt="$sitelib"
 ;;
esac
$cat <<EOM

The installation process will create a directory for
site-specific extensions and modules.  Most users find it convenient
to place
 all site-specific files in this directory rather than in the
main distribution directory.

EOM
fn=d~+
rp='Pathname for the site-specific library files?'
```

```
. ./getfile
prefixvar=sitelib
. ./setprefixvar
sitelib_stem=`echo "$sitelibexp" | sed "s,/$version$,,"`
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/sitelib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getservbyport_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getservbyport_r getservbyport_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getservbyport_r:
?S: This variable conditionally defines the HAS_GETSERVBYPORT_R symbol,
?S: which indicates to the C program that the getservbyport_r()
?S: routine is available.
?S:.
?S:getservbyport_r_proto:
?S: This variable encodes the prototype of getservbyport_r.
?S: It is zero if d_getservbyport_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getservbyport_r
?S: is defined.
?S:.
?C:HAS_GETSERVBYPORT_R:
?C: This symbol, if defined, indicates
 that the getservbyport_r routine
?C: is available to getservbyport re-entrantly.
?C:.
?C:GETSERVBYPORT_R_PROTO:
?C: This symbol encodes the prototype of getservbyport_r.
?C: It is zero if d_getservbyport_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getservbyport_r
?C: is defined.
?C:.
?H:#$d_getservbyport_r HAS_GETSERVBYPORT_R /**/
?H:#define GETSERVBYPORT_R_PROTO $getservbyport_r_proto /**/
?H:.
?T:try hdrs d_getservbyport_r_proto
: see if getservbyport_r exists
```

```
set getservbyport_r d_getservbyport_r
eval $inlibc
case "$d_getservbyport_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getservbyport_r_proto:$usethreads" in
 ":define") d_getservbyport_r_proto=define
  set d_getservbyport_r_proto getservbyport_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getservbyport_r_proto" in
 define)
 case "$getservbyport_r_proto" in
 "|0) try='int getservbyport_r(int, const char*, struct servent*, char*, size_t,
 struct servent**);'
 ./protochk "$extern_C $try" $hdrs && getservbyport_r_proto=I_ICSBWR ;;
 esac
 case "$getservbyport_r_proto" in
 "|0) try='struct servent* getservbyport_r(int, const char*, struct servent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getservbyport_r_proto=S_ICSBI ;;
 esac
 case "$getservbyport_r_proto" in
 "|0) try='int getservbyport_r(int, const char*, struct servent*, struct servent_data*);'
 ./protochk "$extern_C $try" $hdrs && getservbyport_r_proto=I_ICSD ;;
 esac
 case "$getservbyport_r_proto" in
 "|0) d_getservbyport_r=undef
  getservbyport_r_proto=0
  echo "Disabling getservbyport_r, cannot determine prototype." >&4 ;;
 * ) case "$getservbyport_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getservbyport_r_proto="REENTRANT_PROTO_$getservbyport_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getservbyport_r has no prototype, not using it." >&4 ;;
  esac
  d_getservbyport_r=undef
  getservbyport_r_proto=0
  ;;
 esac
 ;;
*) getservbyport_r_proto=0
 ;;
esac
```

Found
 in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getservbyport_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Tr.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  18:00:54  ram
?RCS: patch43: forgot to quote $@ to protect against "evil" characters
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:58:35  ram
?RCS: patch36: created
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to do a character translation. It catches translations to uppercase or
?X: to lowercase, and then invokes the real tr to perform the job.
?X:
?X: This unit is necessary on HP machines (HP strikes again!)
 with non-ascii
?X: ROMAN8-charset, where normal letters are not arranged in a row, so a-z
?X: covers not the whole alphabet but lots of special chars. This was reported
?X: by Andreas Sahlbach <a.sahlbach@tu-bs.de>.
?X:
?X: Units performing a tr '[A-Z]' '[a-z]' or the other way round should include
?X: us in their dependency and use ./tr instead.
?X:
?MAKE:Tr: startsh tr eunicefix
?MAKE: -pick add $@ %<
?F:./tr
?T:up low LC_ALL
: see whether [:lower:] and [:upper:] are supported character classes
echo " "
case "`echo AbyZ | LC_ALL=C $tr '[:lower:]' '[:upper:]' 2>/dev/null`" in
ABYZ)
 echo "Good, your tr supports [:lower:] and [:upper:] to convert case." >&4
 up='[:upper:]'
```

```
 low='[:lower:]'
 ;;
*) # There is a discontinuity in EBCDIC between 'I' and 'J'
       # (0xc9 and 0xd1), therefore that is a nice testing point.
       if test "X$up" = X -o "X$low" = X; then
     case "`echo IJ | LC_ALL=C $tr '[I-J]' '[i-j]' 2>/dev/null`" in
     ij) up='[A-Z]'
         low='[a-z]'
  ;;

 esac
       fi
 if test "X$up" = X -o "X$low" = X; then
     case "`echo IJ | LC_ALL=C $tr I-J i-j 2>/dev/null`" in
     ij) up='A-Z'
  low='a-z'
  ;;
     esac
       fi
 if test "X$up" = X -o "X$low" = X; then
     case "`echo IJ | od -x 2>/dev/null`" in
     *C9D1*|*c9d1*)
  echo "Hey, this might be EBCDIC." >&4
  if test "X$up" = X -o "X$low" = X; then
      case "`echo IJ | \
    LC_ALL=C $tr '[A-IJ-RS-Z]' '[a-ij-rs-z]' 2>/dev/null`" in
      ij) up='[A-IJ-RS-Z]'
          low='[a-ij-rs-z]'
   ;;
      esac
  fi
  if test "X$up" = X -o "X$low" = X; then
      case "`echo IJ | LC_ALL=C $tr A-IJ-RS-Z a-ij-rs-z 2>/dev/null`" in
      ij) up='A-IJ-RS-Z'
          low='a-ij-rs-z'
   ;;
      esac
  fi
  ;;
     esac
 fi
esac
case "`echo IJ | LC_ALL=C $tr \"$up\" \"$low\" 2>/dev/null`" in
ij)
   echo "Using $up and $low to convert case." >&4
   ;;
*)
   echo "I don't know how to translate letters from upper to lower case." >&4
```

```
  echo "Your tr is not acting any way I know of." >&4
   exit 1
  ;;
esac
: set up the translation script tr, must be called with ./tr of course
cat >tr <<EOSC
$startsh
case "\$1\$2" in
'[A-Z][a-z]') LC_ALL=C exec $tr '$up' '$low';;
'[a-z][A-Z]') LC_ALL=C exec $tr '$low' '$up';;
esac
LC_ALL=C exec $tr "\$@"
EOSC
chmod +x tr
$eunicefix tr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Tr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: instubperl.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:installusrbinperl: installbin cat bin Myread Setvar test Devel
?MAKE: -pick add $@ %<
?LINT:set installusrbinperl
?Y:TOP
?S:installusrbinperl:
?S: This variable tells whether Perl should be installed also as
?S: /usr/bin/perl in addition to
?S: $installbin/perl
?S:.
?C:INSTALL_USR_BIN_PERL:
?C: This symbol, if defined, indicates that Perl is to be installed
?C: also as /usr/bin/perl.
?C:.
?H:#$installusrbinperl INSTALL_USR_BIN_PERL /**/
?H:.
: determine
```

```
 whether to install perl also as /usr/bin/perl

echo " "
if $test -d /usr/bin -a "X$installbin" != X/usr/bin; then
 $cat <<EOM
Many scripts expect perl to be installed as /usr/bin/perl.

If you want to, I can install the perl you are about to compile
as /usr/bin/perl (in addition to $bin/perl).
EOM
 if test -f /usr/bin/perl; then
    $cat <<EOM

However, please note that because you already have a /usr/bin/perl,
overwriting that with a new Perl would very probably cause problems.
Therefore I'm assuming you don't want to do that (unless you insist).

EOM
    case "$installusrbinperl" in
    "$define"|[yY]*) dflt='y';;
    *)   dflt='n';;
    esac
 else
    $cat <<EOM

Since you don't have a /usr/bin/perl I'm assuming creating one is okay.

EOM
    case "$installusrbinperl" in
    "$undef"|[nN]*) dflt='n';;
    *)   dflt='y';;
    esac
 fi
 rp="Do you want to install perl as /usr/bin/perl?"
 . ./myread
 case "$ans" in
 [yY]*) val="$define";;
 *) val="$undef" ;;
 esac
else
 val="$undef"
fi
set
 installusrbinperl
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/installdirs/instubperl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_shm.U,v 3.0 1993/08/18 12:07:17 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_shm.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_shm: test d_shmctl d_shmget d_shmat d_shmdt Setvar Findhdr osname
?MAKE: -pick add $@ %<
?S:d_shm:
?S: This variable conditionally defines the HAS_SHM symbol, which
?S: indicates that the entire shm*(2) library is present.
?S:.
?C:HAS_SHM:
?C: This symbol, if defined, indicates that the entire shm*(2) library is
?C: supported.
?C:.
?H:#$d_shm HAS_SHM  /**/
?H:.
?T:h_shm
?LINT:set
 d_shm
: see how much of the 'shm*(2)' library is present.
h_shm=true
echo " "
case "$d_shmctl$d_shmget$d_shmat$d_shmdt" in
*"$undef"*) h_shm=false;;
esac
case "$osname" in
freebsd)
   case "`ipcs 2>&1`" in
   "SVID shared memory"*"not configured"*)
 echo "Your $osname does not have the shm*(2) configured." >&4
       h_shm=false
 val="$undef"
 set shmctl d_shmctl
 eval $setvar
 set shmget d_shmget
```

```
 eval $setvar
 set shmat d_shmat
 eval $setvar
 set shmdt d_shmdt
 eval $setvar
 ;;
   esac
   ;;
esac
: we could also check for sys/ipc.h ...
if $h_shm && $test `./findhdr sys/shm.h`; then
 echo "You have the full shm*(2) library." >&4
 val="$define"
else
 echo "You don't have the full shm*(2) library." >&4
 val="$undef"
fi
set d_shm
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_shm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_db.U,v 3.0.1.3 1995/07/25 14:10:22 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_db.U,v $
?RCS: Revision 3.0.1.3  1995/07/25  14:10:22  ram
?RCS: patch56: conditionally use const in test programs (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1995/05/12  12:14:42  ram
?RCS: patch54: extended for more intimate DB probing (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:21:50  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:i_db db_hashtype db_prefixtype \
```

```
 db_version_major
 db_version_minor db_version_patch : \
 Inhdr +cc +ccflags rm_try compiler_warning cat \
 Compile libs sed run i_stdlib
?MAKE: -pick add $@ %<
?S:i_db:
?S: This variable conditionally defines the I_DB symbol, and indicates
?S: whether a C program may include Berkeley's DB include file <db.h>.
?S:.
?S:db_hashtype:
?S: This variable contains the type of the hash structure element
?S: in the <db.h> header file.  In older versions of DB, it was
?S: int, while in newer ones it is u_int32_t.
?S:.
?S:db_prefixtype:
?S: This variable contains the type of the prefix structure element
?S: in the <db.h> header file.  In older versions of DB, it was
?S: int, while in newer ones it is size_t.
?S:.
?S:db_version_major:
?S: This variable contains the major version number of
?S: Berkeley DB found in the <db.h> header file.
?S:.
?S:db_version_minor:
?S: This variable contains the minor version number of
?S: Berkeley DB found in the <db.h> header file.
?S: For DB version 1 this is always 0.
?S:.
?S:db_version_patch:
?S: This
 variable contains the patch version number of
?S: Berkeley DB found in the <db.h> header file.
?S: For DB version 1 this is always 0.
?S:.
?C:I_DB:
?C: This symbol, if defined, indicates to the C program that it should
?C: include Berkeley's DB include file <db.h>.
?C:.
?C:DB_Prefix_t:
?C: This symbol contains the type of the prefix structure element
?C: in the <db.h> header file.  In older versions of DB, it was
?C: int, while in newer ones it is u_int32_t.
?C:.
?C:DB_Hash_t:
?C: This symbol contains the type of the prefix structure element
?C: in the <db.h> header file.  In older versions of DB, it was
?C: int, while in newer ones it is size_t.
?C:.
```

```
?C:DB_VERSION_MAJOR_CFG:
?C: This symbol, if defined, defines the major version number of
?C: Berkeley DB found in the <db.h> header when Perl was configured.
?C:.
?C:DB_VERSION_MINOR_CFG:
?C: This symbol, if defined, defines the minor version number of
?C: Berkeley DB found in the <db.h> header when Perl was configured.
?C: For
 DB version 1 this is always 0.
?C:.
?C:DB_VERSION_PATCH_CFG:
?C: This symbol, if defined, defines the patch version number of
?C: Berkeley DB found in the <db.h> header when Perl was configured.
?C: For DB version 1 this is always 0.
?C:.
?H:#$i_db I_DB  /**/
?H:#define DB_Hash_t $db_hashtype  /**/
?H:#define DB_Prefix_t $db_prefixtype  /**/
?H:#define DB_VERSION_MAJOR_CFG $db_version_major /**/
?H:#define DB_VERSION_MINOR_CFG $db_version_minor /**/
?H:#define DB_VERSION_PATCH_CFG $db_version_patch /**/
?H:.
?F:!try
?LINT:change libs
: see if this is a db.h system
set db.h i_db
eval $inhdr

case "$i_db" in
$define)
 : Check db version.
 echo " "
 echo "Checking Berkeley DB version ..." >&4
 $cat >try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <db.h>
int main(int argc, char *argv[])
{
#ifdef DB_VERSION_MAJOR /* DB version >= 2 */
   int Major, Minor, Patch ;
   unsigned long Version ;
   (void)db_version(&Major,
```

```
 &Minor, &Patch) ;
   if (argc == 2) {
       printf("%d %d %d %d %d %d\n",
             DB_VERSION_MAJOR, DB_VERSION_MINOR, DB_VERSION_PATCH,
             Major, Minor, Patch);
       exit(0);
   }
   printf("You have Berkeley DB Version 2 or greater.\n");

   printf("db.h is from Berkeley DB Version %d.%d.%d\n",
  DB_VERSION_MAJOR, DB_VERSION_MINOR, DB_VERSION_PATCH);
   printf("libdb is from Berkeley DB Version %d.%d.%d\n",
  Major, Minor, Patch) ;

   /* check that db.h & libdb are compatible */
   if (DB_VERSION_MAJOR != Major || DB_VERSION_MINOR != Minor || DB_VERSION_PATCH != Patch) {
 printf("db.h and libdb are incompatible.\n") ;
       exit(3);
   }

   printf("db.h and libdb are compatible.\n") ;

   Version = DB_VERSION_MAJOR * 1000000 + DB_VERSION_MINOR * 1000
  + DB_VERSION_PATCH ;

   /* needs to be >= 2.3.4 */
   if (Version < 2003004) {
   /* if (DB_VERSION_MAJOR == 2 && DB_VERSION_MINOR == 0 && DB_VERSION_PATCH < 5) { */
 printf("Perl
 needs Berkeley DB 2.3.4 or greater.\n") ;
       exit(2);
   }

   exit(0);
#else
#if defined(_DB_H_) && defined(BTREEMAGIC) && defined(HASHMAGIC)
   if (argc == 2) {
       printf("1 0 0\n");
       exit(0);
   }
   printf("You have Berkeley DB Version 1.\n");
   exit(0); /* DB version < 2: the coast is clear. */
#else
   exit(1); /* <db.h> not Berkeley DB? */
#endif
#endif
}
EOCP
```

```
 set try
 if eval $compile_ok && $run ./try; then
  echo 'Looks OK.' >&4
  set `$run ./try 1`
  db_version_major=$1
  db_version_minor=$2
  db_version_patch=$3
 else
  echo "I can't use Berkeley DB with your <db.h>.  I'll disable Berkeley DB." >&4
  i_db=$undef
  case " $libs " in
  *"-ldb "*)
   : Remove db from list of libraries to use
   echo "Removing unusable -ldb from library list" >&4
   set `echo X $libs | $sed -e 's/-ldb / /' -e 's/-ldb$//'`
   shift
   libs="$*"
   echo "libs = $libs" >&4
   ;;
  esac
 fi
 $rm_try
 ;;
esac

@if DB_Hash_t
case "$i_db" in
define)
 : Check the return
 type needed for hash
 echo " "
 echo "Checking return type needed for hash for Berkeley DB ..." >&4
 $cat >try.c <<EOCP
#include <sys/types.h>
#include <db.h>

#ifndef DB_VERSION_MAJOR
u_int32_t hash_cb (const void* ptr, size_t size)
{
 return 0;
}
HASHINFO info;
int main()
{
 info.hash = hash_cb;
}
#endif
EOCP
```

```
 if $cc $ccflags -c try.c >try.out 2>&1 ; then
  if $compiler_warning try.out >>/dev/null 2>&1 ; then
   db_hashtype='int'
  else
   db_hashtype='u_int32_t'
  fi
 else
  : XXX Maybe we should just give up here.
  db_hashtype=u_int32_t
  $cat try.out >&4
  echo "Help:  I can't seem to compile the db test program." >&4
  echo "Something's wrong, but I'll assume you use $db_hashtype." >&4
 fi
 $rm_try
 echo "Your version of Berkeley DB uses $db_hashtype for hash."
 ;;
*) db_hashtype=u_int32_t
 ;;
esac
@end
@if DB_Prefix_t
case "$i_db" in
define)
 : Check the return type needed for prefix
 echo " "
 echo "Checking return type needed for prefix for Berkeley DB ..." >&4
 cat >try.c <<EOCP
#include
 <sys/types.h>
#include <db.h>

#ifndef DB_VERSION_MAJOR
size_t prefix_cb (const DBT *key1, const DBT *key2)
{
 return 0;
}
BTREEINFO info;
int main()
{
 info.prefix = prefix_cb;
}
#endif
EOCP
 if $cc $ccflags -c try.c  >try.out 2>&1 ; then
  if $compiler_warning try.out >>/dev/null 2>&1 ; then
   db_prefixtype='int'
  else
   db_prefixtype='size_t'
```

```
  fi
 else
  db_prefixtype='size_t'
  : XXX Maybe we should just give up here.
  $cat try.out >&4
  echo "Help:  I can't seem to compile the db test program." >&4
  echo "Something's wrong, but I'll assume you use $db_prefixtype." >&4
 fi
 $rm_try
 echo "Your version of Berkeley DB uses $db_prefixtype for prefix."
 ;;
*) db_prefixtype='size_t'
 ;;
esac
@end
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_db.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: doublesize.U,v 3.0.1.1 1994/10/29 16:17:06 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: doublesize.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:17:06  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:06  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:doublesize: cat rm_try Myread Compile run i_stdlib
?MAKE: -pick add $@ %<
?S:doublesize:
?S: This variable contains the value of the DOUBLESIZE symbol, which
?S: indicates to the C program how many bytes there are in a double.
?S:.
?C:DOUBLESIZE:
?C: This
 symbol contains the size of a double, so that the C preprocessor
?C: can make decisions based on it.
```

```
?C:.
?H:#define DOUBLESIZE $doublesize  /**/
?H:.
?F:!try
: check for length of double
echo " "
case "$doublesize" in
")
 echo "Checking to see how big your double precision numbers are..." >&4
 $cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
{
   printf("%d\n", (int)sizeof(double));
   exit(0);
}
EOCP
 set try
 if eval $compile_ok; then
  doublesize=`$run ./try`
  echo "Your double is $doublesize bytes long."
 else
  dflt='8'
  echo "(I can't seem to compile the test program.  Guessing...)"
  rp="What is the size of a double precision number (in bytes)?"
  . ./myread
  doublesize="$ans"
 fi
 ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/doublesize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sitebin.U,v $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sitebin.U,v $
?RCS:
?MAKE:sitebin sitebinexp installsitebin : Getfile Oldconfig \
 Setprefixvar siteprefix
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitebin=''
?S:sitebin:
?S: This variable holds the name of the directory in which the user wants
?S: to put add-on publicly executable files for the package in question.  It
?S: is most often a local directory such as /usr/local/bin. Programs using
?S: this variable must be prepared to deal with ~name substitution.
?S: The standard distribution will put nothing
 in this directory.
?S: After perl has been installed, users may install their own local
?S: executables in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitebinexp=''
?S:sitebinexp:
?S: This is the same as the sitebin variable, but is filename expanded at
?S: configuration time, for use in your makefiles.
?S:.
?D:installsitebin=''
?S:installsitebin:
?S: This variable is usually the same as sitebinexp, unless you are on
?S: a system running AFS, in which case they may differ slightly. You
?S: should always use this variable within your makefiles for portability.
?S:.
?LINT:change prefixvar
?LINT:set installsitebin
?LINT:set sitebin
?LINT:set sitebinexp
: determine where add-on public executables go
case "$sitebin" in
'') dflt=$siteprefix/bin ;;
*) dflt=$sitebin ;;
esac
fn=d~
rp='Pathname where the add-on public executables should be installed?'
. ./getfile
prefixvar=sitebin
. ./setprefixvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/sitebin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_cmsghdr_s: Hasstruct i_systypes d_socket i_sysuio Setvar
?MAKE: -pick add $@ %<
?S:d_cmsghdr_s:
?S: This variable conditionally defines the HAS_STRUCT_CMSGHDR symbol,
?S: which indicates that the struct cmsghdr is supported.
?S:.
?C:HAS_STRUCT_CMSGHDR:
?C: This symbol, if defined, indicates that the struct cmsghdr
?C: is supported.
?C:.
?H:#$d_cmsghdr_s HAS_STRUCT_CMSGHDR /**/
?H:.
?LINT:set d_cmsghdr_s
: Check for cmsghdr support
echo " "
echo "Checking to see if your system supports struct cmsghdr..." >&4
set d_cmsghdr_s cmsghdr $i_systypes sys/types.h $d_socket sys/socket.h $i_sysuio sys/uio.h
eval $hasstruct
case "$d_cmsghdr_s" in
"$define")      echo "Yes, it does."   ;;
*)              echo
 "No, it doesn't." ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_cmsghdr_s.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: usedtrace.U,v $
?RCS:
?RCS: Copyright (c) 2008 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
```

```
?RCS: $Log: usedtrace.U,v $
?RCS:
?MAKE:usedtrace dtrace: Myread Oldconfig Setvar Getfile test
?MAKE: -pick add $@ %<
?Y:TOP
?S:usedtrace:
?S: This variable indicates whether we are compiling with dtrace
?S: support. See also dtrace.
?S:.
?S:dtrace:
?S: This variable holds the location of the dtrace executable.
?S:.
?C:USE_DTRACE:
?C: This symbol, if defined, indicates that Perl should
?C: be built with support for DTrace.
?C:.
?H:#$usedtrace USE_DTRACE  /**/
?H:.
?T:dflt_dtrace
?LINT:set usedtrace
?LINT:set dtrace
: DTrace support
dflt_dtrace='/usr/sbin/dtrace'
$test -x /usr/bin/dtrace && dflt_dtrace='/usr/bin/dtrace'

cat <<EOM

Perl can be built to support DTrace on platforms that support
 it.
DTrace is a diagnosis and performance analysis tool from Sun.

If this doesn't make any sense to you, just accept the default.
EOM

while $test 1 ; do
 case "$usedtrace" in
 $define|true|[yY]*)
  dflt='y'
  ;;
 $undef|false|[nN]*)
  dflt='n'
  dflt_dtrace=""
  ;;
 ?*)
  dflt='y'
  dflt_dtrace=$usedtrace
  ;;
 *)
```

```
 dflt='n'
 ;;
esac

rp='Support DTrace if available?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*)      val="$undef" ;;
esac
set usedtrace
eval $setvar

test "X$usedtrace" != "X$define" && break

echo " "
rp='Where is the dtrace executable?'
dflt=$dflt_dtrace
. ./getfile
val="$ans"
set dtrace
eval $setvar

if $test -f $dtrace
then
 if $dtrace -h -s ../perldtrace.d \
  -o perldtrace.tmp >/dev/null 2>&1 \
  && rm -f perldtrace.tmp
 then
  echo " "
  echo "Good: your $dtrace knows about the -h flag."
 else
  cat >&2 <<EOM

*** $me:  Fatal Error:  $dtrace doesn't support -h flag
***
*** Your installed dtrace doesn't support the -h switch to
 compile a D
*** program into a C header. Can't continue.

EOM
  exit 1
 fi
 break;
fi

case "$fastread" in
yes)
```

```
  cat >&2 <<EOM

*** $me:  Fatal Error:  $dtrace not found.
*** Can't continue.

EOM
  exit 1
  ;;
 *)
  echo "*** $dtrace was not found."
  echo " "
  ;;
 esac
done
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/usedtrace.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_pthread: Inhdr
?MAKE: -pick add $@ %<
?S:i_pthread:
?S: This variable conditionally defines the I_PTHREAD symbol,
?S: and indicates whether a C program should include <pthread.h>.
?S:.
?C:I_PTHREAD:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <pthread.h>.
?C:.
?H:#$i_pthread   I_PTHREAD /**/
?H:.
?LINT:set i_pthread
: see if POSIX threads are available
set pthread.h i_pthread
eval $inhdr
```

Found in path(s):

* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/i_pthread.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysstatfs.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysstatfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysstatfs:
?S: This variable conditionally defines the I_SYSSTATFS symbol,
?S: and indicates whether a C program should include <sys/statfs.h>.
?S:.
?C:I_SYS_STATFS:
?C: This symbol, if defined, indicates that <sys/statfs.h> exists.
?C:.
?H:#$i_sysstatfs I_SYS_STATFS  /**/
?H:.
?LINT:set i_sysstatfs
: see if this is a sys/statfs.h system
set sys/statfs.h i_sysstatfs
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_sysstatfs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getgrent.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_getgrent.U,v $
?RCS:
?MAKE:d_getgrent: Inlibc
?MAKE: -pick add $@ %<
?S:d_getgrent:
?S: This variable conditionally defines the HAS_GETGRENT symbol, which
?S: indicates to the C program that the getgrent() routine is available
?S: for sequential access of the group database.
?S:.
```

```
?C:HAS_GETGRENT:
?C: This symbol, if defined, indicates that the getgrent routine is
?C: available for sequential access of the group database.
?C:.
?H:#$d_getgrent HAS_GETGRENT  /**/
?H:.
?LINT:set d_getgrent
: see if getgrent exists
set getgrent d_getgrent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_getgrent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: abortsig.U,v 3.0.1.1 1994/10/29 16:02:19 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: abortsig.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:02:19  ram
?RCS: patch36: call ./usg explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:20  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:abortsig: Myread Oldconfig Guess cat Compile rm
?MAKE: -pick add $@ %<
?S:abortsig:
?S: This variable holds the name of the signal used by the abort() call.
?S:.
?C:ABORTSIG:
?C: This symbol holds the signal number (symbol)
 used by the abort() call. To
?C: actually define the signal symbol, <signal.h> should be included.
?C:.
?H:#define ABORTSIG $abortsig  /**/
?H:.
?T:signal
: which signal is sent by abort ?
echo " "
```

```
case "$abortsig" in
")
 echo "Checking to see which signal is sent to the process by abort()..." >&4
 echo "abort" > abort.sh
 chmod +x abort.sh
?X: SIGABRT should replace SIGIOT on USG machines in a near future (1991).
 for signal in SIGIOT SIGILL SIGABRT; do
  case "$abortsig" in
  ") $cat >abort.c <<EOP
#include <signal.h>
caught() { exit(0); }
int main()
{
#ifdef $signal
 signal($signal, caught);
#endif
 if (-1 == abort())
  exit(1);
 exit(1);
}
EOP
?X: We have to use the abort.sh script otherwise sh behaves strangely on AIX.
   set abort
   if eval $compile; then
    (./abort.sh) >/dev/null 2>&1
    case $? in
    0) abortsig="$signal";;
    esac
   fi
   ;;
  esac
 done
 ;;
esac
case "$abortsig" in
") echo "(I wasn't able to compute the signal name--guessing)"
 if ./usg; then
  dflt="SIGIOT"
 else
  dflt="SIGILL"
 fi;;
*)
  dflt="$abortsig"
 ;;
esac
rp="Which signal does abort() send to the process (signal name)?"
. ./myread
abortsig="$ans"
```

```
$rm -f core abort.sh abort abort.c
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/abortsig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: netdbtype.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: netdbtype.U,v $
?RCS:
?MAKE:netdb_host_type netdb_hlen_type netdb_name_type netdb_net_type: \
 Protochk Oldconfig Myread cat \
 d_gethbyaddr d_gethbyname d_getnbyaddr \
 i_niin i_netdb i_unistd d_socket sizetype extern_C
?MAKE: -pick add $@ %<
?S:netdb_host_type:
?S: This variable holds the type used for the 1st argument to
?S: gethostbyaddr().  Usually, this is char * or void *,  possibly
?S: with or without a const prefix.
?S: This is only useful if you have gethostbyaddr(), naturally.
?S:.
?S:netdb_hlen_type:
?S: This variable holds the type used for the 2nd argument to
?S: gethostbyaddr().  Usually,
 this is int or size_t or unsigned.
?S: This is only useful if you have gethostbyaddr(), naturally.
?S:.
?S:netdb_name_type:
?S: This variable holds the type used for the argument to
?S: gethostbyname().  Usually, this is char * or const char *.
?S: This is only useful if you have gethostbyname(), naturally.
?S:.
?S:netdb_net_type:
?S: This variable holds the type used for the 1st argument to
?S: getnetbyaddr().  Usually, this is int or long.
?S: This is only useful if you have getnetbyaddr(), naturally.
?S:.
?C:Netdb_host_t:
?C: This symbol holds the type used for the 1st argument
?C: to gethostbyaddr().
```

```
?C:.
?C:Netdb_hlen_t:
?C: This symbol holds the type used for the 2nd argument
?C: to gethostbyaddr().
?C:.
?C:Netdb_name_t:
?C: This symbol holds the type used for the argument to
?C: gethostbyname().
?C:.
?C:Netdb_net_t:
?C: This symbol holds the type used for the 1st argument to
?C: getnetbyaddr().
?C:.
?H:#define Netdb_host_t  $netdb_host_type /**/
?H:#define Netdb_hlen_t  $netdb_hlen_type
 /**/
?H:#define Netdb_name_t  $netdb_name_type /**/
?H:#define Netdb_net_t  $netdb_net_type /**/
?H:.
?T:xxx yyy try hdrs
@if netdb_host_type || Netdb_host_t || netdb_hlen_type || Netdb_hlen_t
: check for type of arguments to gethostbyaddr.
if test "X$netdb_host_type" = X -o "X$netdb_hlen_type" = X; then
 case "$d_gethbyaddr" in
 $define)
  $cat <<EOM

Checking to see what type of arguments are accepted by gethostbyaddr().
EOM
  hdrs="$define sys/types.h
   $d_socket sys/socket.h
   $i_niin netinet/in.h
   $i_netdb netdb.h
   $i_unistd unistd.h"
  : The first arg can 'char *' or 'void *'
  : The second arg is some of integral type
  for xxx in in_addr_t 'const void *' 'const char *' 'void *' 'char *'; do
   for yyy in size_t long int; do
    case "$netdb_host_type" in
    ") try="$extern_C struct hostent *gethostbyaddr($xxx, $yyy, int);"
     if ./protochk "$try" $hdrs; then
      echo "Your system accepts $xxx for the first arg."
      echo "...and $yyy for the second arg."
      netdb_host_type="$xxx"
      netdb_hlen_type="$yyy"
     fi
     ;;
    esac
```

```
  done
 done
 :
In case none of those worked, prompt the user.
 case "$netdb_host_type" in
 '') rp='What is the type for the 1st argument to gethostbyaddr?'
  dflt='char *'
  . ./myread
  netdb_host_type=$ans
  rp='What is the type for the 2nd argument to gethostbyaddr?'
  dflt="$sizetype"
  . ./myread
  netdb_hlen_type=$ans
  ;;
 esac
 ;;
*) : no gethostbyaddr, so pick harmless defaults
 netdb_host_type='char *'
 netdb_hlen_type="$sizetype"
 ;;
esac
# Remove the "const" if needed. -- but then we'll have a
# prototype clash!
# netdb_host_type=`echo "$netdb_host_type" | sed 's/^const //'`
fi
@end

@if netdb_name_type || Netdb_name_t
: check for type of argument to gethostbyname.
if test "X$netdb_name_type" = X ; then
 case "$d_gethbyname" in
 $define)
  $cat <<EOM

Checking to see what type of argument is accepted by gethostbyname().
EOM
  hdrs="$define sys/types.h
   $d_socket sys/socket.h
   $i_niin
 netinet/in.h
   $i_netdb netdb.h
   $i_unistd unistd.h"
  for xxx in "const char *" "char *"; do
   case "$netdb_name_type" in
   '') try="$extern_C struct hostent *gethostbyname($xxx);"
    if ./protochk "$try" $hdrs; then
     echo "Your system accepts $xxx."
     netdb_name_type="$xxx"
```

```
    fi
    ;;
   esac
  done
  : In case none of those worked, prompt the user.
  case "$netdb_name_type" in
  '') rp='What is the type for the 1st argument to gethostbyname?'
   dflt='char *'
   . ./myread
   netdb_name_type=$ans
   ;;
  esac
  ;;
 *) : no gethostbyname, so pick harmless default
  netdb_name_type='char *'
  ;;
 esac
fi
@end

@if netdb_net_type || Netdb_net_t
: check for type of 1st argument to getnetbyaddr.
if test "X$netdb_net_type" = X ; then
 case "$d_getnbyaddr" in
 $define)
  $cat <<EOM

Checking to see what type of 1st argument is accepted by getnetbyaddr().
EOM
  hdrs="$define sys/types.h
   $d_socket sys/socket.h
   $i_niin netinet/in.h
   $i_netdb netdb.h
   $i_unistd
 unistd.h"
  for xxx in in_addr_t "unsigned long" long "unsigned int" int; do
   case "$netdb_net_type" in
   '') try="$extern_C struct netent *getnetbyaddr($xxx, int);"
    if ./protochk "$try" $hdrs; then
     echo "Your system accepts $xxx."
     netdb_net_type="$xxx"
    fi
    ;;
   esac
  done
  : In case none of those worked, prompt the user.
  case "$netdb_net_type" in
  '') rp='What is the type for the 1st argument to getnetbyaddr?'
```

```
  dflt='long'
  . ./myread
  netdb_net_type=$ans
  ;;
 esac
 ;;
*) : no getnetbyaddr, so pick harmless default
 netdb_net_type='long'
 ;;
esac
fi
@end
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/netdbtype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setvbuf.U,v 3.0.1.1 1994/08/29 16:11:57 ram Exp $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
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?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_setvbuf.U,v $
?RCS:
?MAKE:d_setvbuf: Inlibc
?MAKE: -pick add $@ %<
?S:d_setvbuf:
?S: This variable conditionally defines the HAS_SETVBUF symbol, which
?S: indicates to the C program that the setvbuf() routine is available
?S: to change buffering on an open stdio stream.
?S:.
?C:HAS_SETVBUF :
?C: This symbol, if defined, indicates that the setvbuf routine is
?C: available to change buffering on an open stdio stream.
?C: to a line-buffered mode.
?C:.
?H:#$d_setvbuf HAS_SETVBUF  /**/
?H:.
?LINT:set d_setvbuf
: see if setvbuf exists
set setvbuf d_setvbuf
eval $inlibc
```

Found
 in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_setvbuf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_passwd.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_passwd.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:37:21  ram
?RCS: patch61: useless unit dropped.
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:09:51  ram
?RCS: patch32: created by ADO
?RCS:
?X:
?X: Useless unit dropped.
?X:
?LINT:empty
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_passwd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Unix.U,v 3.0.1.1 1997/02/28 15:20:06 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Unix.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:20:06  ram
?RCS: patch61: created
```

```
?RCS:
?X:
?X: The purpose of this unit is to define things that are common across all
?X: known UNIX platforms. If Configure is ported/used on a non-UNIX
?X: environment, then some of the following variables can be redefined in hint
?X: files.
?X:
?MAKE:Unix _exe _a _o exe_ext lib_ext obj_ext path_sep \
 firstmakefile archobjs rm_try: Oldconfig rm
?MAKE: -pick add $@ %<
?S:_exe:
?S: This
 variable defines the extension used for executable files.
?S: DJGPP, Cygwin and OS/2 use '.exe'.  Stratus VOS uses '.pm'.
?S: On operating systems which do not require a specific extension
?S: for executable files, this variable is empty.
?S:.
?S:_a:
?S: This variable defines the extension used for ordinary library files.
?S: For unix, it is '.a'.  The '.' is included.  Other possible
?S: values include '.lib'.
?S:.
?S:_o:
?S: This variable defines the extension used for object files.
?S: For unix, it is '.o'.  The '.' is included.  Other possible
?S: values include '.obj'.
?S:.
?S:firstmakefile:
?S: This variable defines the first file searched by make.  On unix,
?S: it is makefile (then Makefile).  On case-insensitive systems,
?S: it might be something else.  This is only used to deal with
?S: convoluted make depend tricks.
?S:.
?S:archobjs:
?S: This variable defines any additional objects that must be linked
?S: in with the program on this architecture.  On unix, it is usually
?S: empty.
  It is typically used to include emulations of unix calls
?S: or other facilities.  For perl on OS/2, for example, this would
?S: include os2/os2.obj.
?S:.
?X: Metaconfig's Obsolete symbol stuff is too over-eager.  In the
?X: perl sources, it picks up things like "P" and "FLOCK" that are
?X: not used in the way Metaconfig thinks they are.  Thus I can't
?X: just declare these obsolete and then run metaconfig -o.
?X: Instead, I'll just handle them here.
?X: Sadly, history has conspired to give us a web of definitions;
?X: this could have been much simpler.
```

```
?S:lib_ext:
?S: This is an old synonym for _a.
?S:.
?S:exe_ext:
?S: This is an old synonym for _exe.
?S:.
?S:obj_ext:
?S: This is an old synonym for _o.
?S:.
?S:path_sep:
?S: This is an old synonym for p_ in Head.U, the character
?S: used to separate elements in the command shell search PATH.
?S:.
?S:rm_try:
?S: This is a cleanup variable for try test programs.
?S: Internal Configure use only.
?S:.
?LINT: change p_
?INIT::
 Trailing extension.  Override this in a hint file, if needed.
?INIT:: Extra object files, if any, needed on this platform.
?INIT:archobjs="
: Define several unixisms.
: Hints files or command line option can be used to override them.
: The convoluted testing is in case hints files set either the old
: or the new name.
case "$_exe" in
") case "$exe_ext" in
 ") ;;
 *) _exe="$exe_ext" ;;
 esac
 ;;
esac
case "$_a" in
") case "$lib_ext" in
   ") _a='.a';;
 *) _a="$lib_ext" ;;
 esac
 ;;
esac
case "$_o" in
") case "$obj_ext" in
 ") _o='.o';;
 *) _o="$obj_ext";;
 esac
 ;;
esac
case "$p_" in
```

```
") case "$path_sep" in
 ") p_=':';;
 *) p_="$path_sep";;
 esac
 ;;
esac
exe_ext=$_exe
lib_ext=$_a
obj_ext=$_o
path_sep=$p_

rm_try="$rm -f try try$_exe a.out .out try.[cho] try.$_o core core.try* try.core*"

@if firstmakefile
: Which makefile gets called first.  This is used by make depend.
case "$firstmakefile" in
") firstmakefile='makefile';;
esac

@end
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Unix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isinf: Inlibc cat Compile rm_try Setvar
?MAKE: -pick add $@ %<
?S:d_isinf:
?S: This variable conditionally defines the HAS_ISINF symbol, which
?S: indicates to the C program that the isinf() routine is available.
?S:.
?C:HAS_ISINF:
?C: This symbol, if defined, indicates that the isinf routine is
?C: available to check whether a double is an infinity.
?C:.
?H:#$d_isinf HAS_ISINF  /**/
?H:.
?LINT:set d_isinf
: check for isinf
echo "Checking to see if you have isinf..." >&4
```

```
$cat >try.c <<EOCP
#include <math.h>
int main() { return isinf(0.0); }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have isinf."
else
 val="$undef"
 echo "You do not have isinf."
fi
$rm_try
set d_isinf
eval $setvar

Found
 in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_isinf.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: i_memory.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_memory.U,v $
?RCS: Revision 3.0.1.3  1994/06/20  07:01:55  ram
?RCS: patch30: cosmetic changes
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:23:56  ram
?RCS: patch27: modified to avoid spurious Whoa warnings (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:02:25  ram
?RCS: patch23: avoid conflicts with <string.h>
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:22  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_memory: Inhdr strings cppstdin
 cppflags cppminus contains rm Setvar
?MAKE: -pick add $@ %<
```

```
?S:i_memory:
?S: This variable conditionally defines the I_MEMORY symbol, and indicates
?S: whether a C program should include <memory.h>.
?S:.
?C:I_MEMORY:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <memory.h>.
?C:.
?H:#$i_memory I_MEMORY  /**/
?H:.
?LINT:set i_memory
?X:
?X: Unfortunately, the definitions of memory functions sometimes
?X: conflict with those in <string.h>.  We'll assume that if
?X: <string.h> contains memcpy, then we don't need memory.h
?X:
: see if memory.h is available.
val=''
set memory.h val
eval $inhdr

: See if it conflicts with string.h
case "$val" in
$define)
 case "$strings" in
 '') ;;
 *)
  $cppstdin $cppflags $cppminus < $strings > mem.h
  if $contains 'memcpy' mem.h >/dev/null 2>&1; then
   echo " "
   echo "We won't be including <memory.h>."
   val="$undef"
  fi
  $rm -f mem.h
  ;;
 esac
esac
set i_memory
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_memory.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: locdist.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: locdist.U,v $
?RCS: Revision 3.0.1.1  1994/05/06  15:09:20  ram
?RCS: patch23: added support for multi-state regions (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:06  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:locdist orgdist citydist statedist multistatedist cntrydist contdist: \
 test newslibexp cat Myread Oldconfig
?MAKE: -pick add $@ %<
?S:locdist:
?S: This variable contains the eventual value of the LOCDIST symbol,
?S: which
 is the local organization's distribution name for news.
?S:.
?S:orgdist:
?S: This variable contains the eventual value of the ORGDIST symbol,
?S: which is the organization's distribution name for news.
?S:.
?S:citydist:
?S: This variable contains the eventual value of the CITYDIST symbol,
?S: which is the city's distribution name for news.
?S:.
?S:statedist:
?S: This variable contains the eventual value of the STATEDIST symbol,
?S: which is the state's or province's distribution name for news.
?S:.
?S:multistatedist:
?S: This variable contains the eventual value of the MULTISTATEDIST symbol,
?S: which is the news distribution code for multi-state region.
?S:.
?S:cntrydist:
?S: This variable contains the eventual value of the CNTRYDIST symbol,
?S: which is the country's distribution name for news.
?S:.
?S:contdist:
?S: This variable contains the eventual value of the CONTDIST symbol,
?S: which is the continent's distribution name for news.
?S:.
?C:LOCDIST:
?C: This symbol contains the
```

```
 distribution name for the news system that
?C: restricts article distribution to the local organization.
?C:.
?C:ORGDIST:
?C: This symbol contains the distribution name for the news system that
?C: restricts article distribution to the organization.
?C:.
?C:CITYDIST:
?C: This symbol contains the distribution name for the news system that
?C: restricts article distribution to the city.
?C:.
?C:STATEDIST:
?C: This symbol contains the distribution name for the news system that
?C: restricts article distribution to the state or province.
?C:.
?C:MULTISTATEDIST:
?C: This symbol contains the distribution name for the news system that
?C: restricts article distribution to a multi-state region.
?C:.
?C:CNTRYDIST:
?C: This symbol contains the distribution name for the news system that
?C: restricts article distribution to the country.
?C:.
?C:CONTDIST:
?C: This symbol contains the distribution name for the news system that
?C: restricts article distribution to the continent.
?C:.
?H:#define LOCDIST
 "$locdist"  /**/
?H:#define ORGDIST "$orgdist"  /**/
?H:#define CITYDIST "$citydist"  /**/
?H:#define MULTISTATEDIST "$multistatedist" /**/
?H:#define STATEDIST "$statedist"  /**/
?H:#define CNTRYDIST "$cntrydist"  /**/
?H:#define CONTDIST "$contdist"  /**/
?H:.
: get the local distributions
$cat <<'EOH'

Distribution groups are the things you use on the Distribution line to limit
where an article will go to.  You are likely to be a member of several
distribution groups, such as organization, city, state, province, country,
continent, etc.  For example, Los Angeles has the distribution code "la",
New Jersey has the code "nj", and Europe has the code "eunet".

The categories you will be asked are:

local organization (Could be just one machine or a cluster or an office)
```

```
organization  att, dec, kgb, ...
city   la, ny, mosc, ...
state/province  ca, nj, bc, ...
multi-state region pnw, ne, ...
country   usa, can, rok, whatever
continent  na (North America), asia, etc.

EOH
if $test
 -f $newslibexp/distributions; then
 case "$silent" in
 true) ;;
 *) dflt='Hit return to continue'
  rp=''
  . ./myread
  ;;
 esac
 echo "Here is your distributions file:" >&4
 echo " " >&4
 $cat >&4 $newslibexp/distributions
 echo " " >&4
fi
echo "Use 'none' for any distributions you don't have."
echo " "
case "$locdist" in
'') dflt="none";;
*)  dflt="$locdist";;
esac
rp="What is the distribution code for your local organization?"
. ./myread
locdist="$ans"
case "$orgdist" in
'') dflt="none";;
*)  dflt="$orgdist";;
esac
rp="What is the distribution code for your organization?"
. ./myread
orgdist="$ans"
case "$citydist" in
'') dflt="none";;
*)  dflt="$citydist";;
esac
rp="What is the distribution code for your city?"
. ./myread
citydist="$ans"
case "$statedist" in
'') dflt="none";;
*)  dflt="$statedist";;
```

```
esac
rp="What is the distribution code for your state/province?"
. ./myread
statedist="$ans"
case "$multistatedist" in
") dflt="none";;
*) dflt="$multistatedist";;
esac
rp="What is the
 distribution code for your multi-state region?"
. ./myread
multistatedist="$ans"
case "$cntrydist" in
") dflt="none";;
*)  dflt="$cntrydist";;
esac
rp="What is the distribution code for your country?"
. ./myread
cntrydist="$ans"
case "$contdist" in
") dflt="none";;
*)  dflt="$contdist";;
esac
rp="What is the distribution code for your continent?"
. ./myread
contdist="$ans"
$cat <<'EOM'

If you have any other distribution groups you will need to edit Pnews
and newsetup to add them.
EOM
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/locdist.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_ndbm.U,v 3.0.1.1 1995/05/12 12:16:53 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: i_ndbm.U,v $
```

```
?RCS: Revision 3.0.1.1  1995/05/12  12:16:53  ram
?RCS: patch54: made more robust by checking both header and lib (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:23  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_ndbm i_gdbmndbm i_gdbm_ndbm d_ndbm d_ndbm_h_uses_prototypes \
 d_gdbmndbm_h_uses_prototypes d_gdbm_ndbm_h_uses_prototypes: \
    Inhdr Inlibc Setvar test d_cplusplus extern_C echo Protochk
?MAKE: -pick add $@ %<
?S:i_ndbm:
?S: This
 variable conditionally defines the I_NDBM symbol, which
?S: indicates to the C program that <ndbm.h> exists and should
?S: be included.
?S:.
?C:I_NDBM:
?C: This symbol, if defined, indicates that <ndbm.h> exists and should
?C: be included.
?C:.
?S:i_gdbmndbm:
?S: This variable conditionally defines the I_GDBMNDBM symbol, which
?S: indicates to the C program that <gdbm/ndbm.h> exists and should
?S: be included.  This was the location of the ndbm.h compatibility file
?S: in RedHat 7.1.
?S:.
?C:I_GDBMNDBM:
?C: This symbol, if defined, indicates that <gdbm/ndbm.h> exists and should
?C: be included.  This was the location of the ndbm.h compatibility file
?C: in RedHat 7.1.
?C:.
?S:i_gdbm_ndbm:
?S: This variable conditionally defines the I_GDBM_NDBM symbol, which
?S: indicates to the C program that <gdbm-ndbm.h> exists and should
?S: be included.  This is the location of the ndbm.h compatibility file
?S: in Debian 4.0.
?S:.
?C:I_GDBM_NDBM:
?C: This symbol, if defined, indicates
 that <gdbm-ndbm.h> exists and should
?C: be included.  This is the location of the ndbm.h compatibility file
?C: in Debian 4.0.
?C:.
?S:d_ndbm:
?S: This variable conditionally defines the HAS_NDBM symbol, which
?S: indicates that both the ndbm.h include file and an appropriate ndbm
?S: library exist.  Consult the different i_*ndbm variables
?S: to find out the actual include location.  Sometimes, a system has the
```

?S: header file but not the library. This variable will only be set if
?S: the system has both.
?S:.
?C:HAS_NDBM:
?C: This symbol, if defined, indicates that some form of ndbm.h or compatibility
?C: include exists, along with the appropriate library.
?C:.
?S:d_ndbm_h_uses_prototypes:
?S: This variable conditionally defines the NDBM_H_USES_PROTOTYPES symbol,
?S: which indicates that the ndbm.h include file uses real ANSI C
?S: prototypes instead of K&R style function declarations. K&R style
?S: declarations are unsupported in C++, so the include file requires
?S: special handling
 when using a C++ compiler and this variable is
?S: undefined. Consult the different d_*ndbm_h_uses_prototypes variables
?S: to get the same information for alternative ndbm.h include files.
?S:.
?C:NDBM_H_USES_PROTOTYPES:
?C: This symbol, if defined, indicates that <ndbm.h> uses real ANSI C
?C: prototypes instead of K&R style function declarations without any
?C: parameter information. While ANSI C prototypes are supported in C++,
?C: K&R style function declarations will yield errors.
?C:.
?S:d_gdbmndbm_h_uses_prototypes:
?S: This variable conditionally defines the NDBM_H_USES_PROTOTYPES symbol,
?S: which indicates that the gdbm/ndbm.h include file uses real ANSI C
?S: prototypes instead of K&R style function declarations. K&R style
?S: declarations are unsupported in C++, so the include file requires
?S: special handling when using a C++ compiler and this variable is
?S: undefined. Consult the different d_*ndbm_h_uses_prototypes variables
?S: to get the same information for alternative
 ndbm.h include files.
?S:.
?C:GDBMNDBM_H_USES_PROTOTYPES:
?C: This symbol, if defined, indicates that <gdbm/ndbm.h> uses real ANSI C
?C: prototypes instead of K&R style function declarations without any
?C: parameter information. While ANSI C prototypes are supported in C++,
?C: K&R style function declarations will yield errors.
?C:.
?S:d_gdbm_ndbm_h_uses_prototypes:
?S: This variable conditionally defines the NDBM_H_USES_PROTOTYPES symbol,
?S: which indicates that the gdbm-ndbm.h include file uses real ANSI C
?S: prototypes instead of K&R style function declarations. K&R style
?S: declarations are unsupported in C++, so the include file requires
?S: special handling when using a C++ compiler and this variable is
?S: undefined. Consult the different d_*ndbm_h_uses_prototypes variables
?S: to get the same information for alternative ndbm.h include files.
?S:.

```
?C:GDBM_NDBM_H_USES_PROTOTYPES:
?C: This symbol, if defined, indicates that <gdbm-ndbm.h> uses real ANSI C
?C: prototypes
 instead of K&R style function declarations without any
?C: parameter information. While ANSI C prototypes are supported in C++,
?C: K&R style function declarations will yield errors.
?C:.
?H:#$i_ndbm I_NDBM /**/
?H:#$i_gdbmndbm I_GDBMNDBM /**/
?H:#$i_gdbm_ndbm I_GDBM_NDBM /**/
?H:#$d_ndbm HAS_NDBM /**/
?H:#$d_ndbm_h_uses_prototypes NDBM_H_USES_PROTOTYPES /**/
?H:#$d_gdbmndbm_h_uses_prototypes GDBMNDBM_H_USES_PROTOTYPES /**/
?H:#$d_gdbm_ndbm_h_uses_prototypes GDBM_NDBM_H_USES_PROTOTYPES /**/
?H:.
?T:d_dbm_open name hdr ihdr ndbm_hdr_protochk
?LINT:set d_ndbm d_gdbmndbm_h_uses_prototypes d_gdbm_ndbm_h_uses_prototypes
d_ndbm_h_uses_prototypes
: see if ndbm.h is available
set ndbm.h i_ndbm
eval $inhdr
: Compatibility location for RedHat 7.1
set gdbm/ndbm.h i_gdbmndbm
eval $inhdr
: Compatibility location for Debian 4.0
set gdbm-ndbm.h i_gdbm_ndbm
eval $inhdr

val="$undef"
if $test "$i_ndbm" = "$define" -o "$i_gdbmndbm" = "$define" -o "$i_gdbm_ndbm" = "$define"; then
 : see if dbm_open exists
 set
 dbm_open d_dbm_open
 eval $inlibc
 case "$d_dbm_open" in
 $undef)
  i_ndbm="$undef"
  i_gdbmndbm="$undef"
  i_gdbm_ndbm="$undef"
  echo "We won't be including <ndbm.h>"
  val="$undef"
  ;;
 *) val="$define"
    ;;
 esac
fi
set d_ndbm
eval $setvar
```

```
ndbm_hdr_protochk='name=$1; hdr=$2;
eval "ihdr=\$""i_$name";
val="$undef";
if $test "$ihdr" = "$define"; then
 $echo "Checking if your <$hdr> uses prototypes..." >&4;
 case "$d_cplusplus" in
 $define) ./protochk "$extern_C void dbm_close(DBM *);" literal "extern \"C\" {" $ihdr $hdr literal "}" &&
val="$define" ;;
 *) ./protochk "$extern_C void dbm_close(int, int);" $ihdr $hdr || val="$define" ;;
 esac;
 case "$val" in
 $define) $echo "Your <$hdr> seems to have prototypes";;
 *) $echo "Your <$hdr> does not seem to have prototypes";;
 esac;
fi;
set "d_${name}_h_uses_prototypes";
eval $setvar'

set ndbm ndbm.h
eval $ndbm_hdr_protochk
set gdbmndbm gdbm/ndbm.h
eval $ndbm_hdr_protochk
set gdbm_ndbm gdbm-ndbm.h
eval $ndbm_hdr_protochk

Found
 in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
5.36.0/U/modified/i_ndbm.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Null.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Null.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:10  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit ends up producing shell code to set all variables to ".  This
```

?X: probably isn't necessary, but I'm paranoid. About certain things.
?X:
?MAKE:Null: Head
?MAKE: -pick add.Null $@ %<

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Null.U
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:
?RCS: Copyright (c) 1998, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_syssecrt: Inhdr
?MAKE: -pick add $@ %<
?S:i_syssecrt:
?S: This variable conditionally defines the I_SYS_SECURITY symbol,
?S: and indicates whether a C program should include <sys/security.h>.
?S:.
?C:I_SYS_SECURITY:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/security.h>.
?C:.
?H:#$i_syssecrt   I_SYS_SECURITY /**/
?H:.
?LINT:set i_syssecrt
: see if sys/security.h is available
set sys/security.h i_syssecrt
eval $inhdr

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/acl/i_syssecrt.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_lockf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_lockf.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:09:36  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_lockf: Inlibc
?MAKE: -pick add $@ %<
?S:d_lockf:
?S: This variable conditionally defines HAS_LOCKF if lockf() is
?S: available to do file locking.
?S:.
?C:HAS_LOCKF (LOCKF):
?C: This symbol, if defined, indicates that the lockf routine is
?C: available to do file locking.
?C:.
?H:#$d_lockf
 HAS_LOCKF  /**/
?H:.
?LINT:set d_lockf
: see if lockf exists
set lockf d_lockf
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_lockf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorhtml1dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorhtml1dir.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorhtml1dir vendorhtml1direxp installvendorhtml1dir: html1dir Getfile \
```

```
 Setprefixvar Oldconfig Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorhtml1dir:
?S: This variable contains the name of the directory for html
?S: pages.  It may have a ~ on the front.
?S: The standard distribution will put nothing in this
 directory.
?S: Vendors who distribute perl may wish to place their own
?S: html pages in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorhtml1direxp:
?S: This variable is the ~name expanded version of vendorhtml1dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorhtml1dir=''
?S:installvendorhtml1dir:
?S: This variable is really the same as vendorhtml1direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorhtml1dir
: Set the vendorhtml1dir variables
case "$vendorprefix" in
'') vendorhtml1dir=''
 vendorhtml1direxp=''
 ;;
*) : determine where vendor-supplied html pages go.
 : There is no standard location, so try to copy the previously-selected
 : directory structure for the core html pages.
 : XXX Better default suggestions would be welcome.
 case "$vendorhtml1dir"
 in
 '') dflt=`echo "$html1dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
 *) dflt=$vendorhtml1dir ;;
 esac
 case "$dflt" in
 '|' ') dflt=none ;;
 esac
 fn=dn+~
 rp='Pathname for the vendor-supplied html pages?'
 . ./getfile
 vendorhtml1dir="$ans"
 vendorhtml1direxp="$ansexp"
 ;;
```

```
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorhtml1dir" = "X" && vendorhtml1dir=' '
prefixvar=vendorhtml1dir
. ./installprefix
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/vendorhtml1dir.U
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```
?RCS: $Id: d_ffs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_ffs.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_ffs: Inlibc
?MAKE: -pick add $@ %<
?S:d_ffs:
?S: This variable conditionally defines the HAS_FFS symbol, which
?S: indicates to the C program that the ffs() routine is available
?S: to find the first bit which is set in its integer argument.
?S:.
?C:HAS_FFS:
?C: This symbol, if defined, indicates that the ffs routine is available
?C: to
 find the first bit set in its argument.  If it's not available,
?C: roll your own.
?C:.
?H:#$d_ffs HAS_FFS  /**/
?H:.
?LINT:set d_ffs
: see if ffs exists
set ffs d_ffs
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_ffs.U

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```
?RCS: $Id: myhostname.U,v 3.0.1.3 1997/02/28 16:15:55 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: myhostname.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:15:55  ram
?RCS: patch61: improved hostname lookup by using ypmatch when NIS is used
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:25:43  ram
?RCS: patch36: call ./xenix explicitly instead of relying on PATH
?RCS: patch36: now uses new Tr unit to convert to/from lowercase
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:06:20  ram
?RCS: patch30: now a little more clever for domain name guessing
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:09:18  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:myhostname phostname mydomain: contains sed test Myread Oldconfig \
 Guess Loc awk echo sort uniq +usrinc rm hostcat Tr
?MAKE: -pick add $@ %<
?S:myhostname (hostname):
?S: This variable contains the eventual value of the MYHOSTNAME symbol,
?S: which is the name of the host the program is going to run on.
?S: The domain is not kept with hostname, but must be gotten from mydomain.
?S: The dot comes with mydomain, and need not be supplied by the program.
?S:.
?S:mydomain:
?S: This variable contains the eventual value of the MYDOMAIN symbol,
?S: which is the domain of the host the program is going to run on.
?S: The domain must be appended to myhostname to form a complete host name.
?S: The dot comes with mydomain, and need not be supplied by the program.
?S:.
?S:phostname:
?S: This variable contains the eventual value of the PHOSTNAME symbol,
?S: which is a command that can be fed to popen()
 to get the host name.
?S: The program should probably not presume that the domain is or isn't
?S: there already.
```

```
?S:.
?C:MYHOSTNAME (HOSTNAME):
?C: This symbol contains name of the host the program is going to run on.
?C: The domain is not kept with hostname, but must be gotten from MYDOMAIN.
?C: The dot comes with MYDOMAIN, and need not be supplied by the program.
?C: If gethostname() or uname() exist, MYHOSTNAME may be ignored. If MYDOMAIN
?C: is not used, MYHOSTNAME will hold the name derived from PHOSTNAME.
?C:.
?C:MYDOMAIN:
?C: This symbol contains the domain of the host the program is going to
?C: run on.  The domain must be appended to HOSTNAME to form a complete
?C: host name.  The dot comes with MYDOMAIN, and need not be supplied by
?C: the program.  If the host name is derived from PHOSTNAME, the domain
?C: may or may not already be there, and the program should check.
?C:.
?H:#define MYHOSTNAME "$myhostname"  /**/
?H:#define MYDOMAIN "$mydomain"  /**/
?H:.
?LINT:extern osname
?T:cont
 i tans tmp_re
: now get the host name
echo " "
echo "Figuring out host name..." >&4
case "$myhostname" in
") cont=true
 echo 'Maybe "hostname" will work...'
 if tans=`sh -c hostname 2>&1` ; then
  myhostname=$tans
  phostname=hostname
  cont=''
 fi
 ;;
*) cont='';;
esac
if $test "$cont"; then
 if ./xenix; then
  echo 'Oh, dear.  Maybe "/etc/systemid" is the key...'
  if tans=`cat /etc/systemid 2>&1` ; then
   myhostname=$tans
   phostname='cat /etc/systemid'
   echo "Whadyaknow.  Xenix always was a bit strange..."
   cont=''
  fi
 elif $test -r /etc/systemid; then
  echo "(What is a non-Xenix system doing with /etc/systemid?)"
 fi
fi
```

```
if $test "$cont"; then
 echo 'No, maybe "uuname -l" will work...'
 if tans=`sh -c 'uuname -l' 2>&1` ; then
  myhostname=$tans
  phostname='uuname -l'
 else
  echo 'Strange.  Maybe "uname -n" will work...'
  if tans=`sh -c 'uname -n' 2>&1` ; then
   myhostname=$tans
   phostname='uname -n'
  else
   echo 'Oh well, maybe I can mine it out of whoami.h...'
   if
 tans=`sh -c $contains' sysname $usrinc/whoami.h' 2>&1` ; then
    myhostname=`echo "$tans" | $sed 's/^.*"\(.*\)"/\1/'`
    phostname="sed -n -e ""/sysname/s/^.*\"\\(.*\\)\"/\1/{"" -e p -e q -e '}' <$usrinc/whoami.h"
   else
    case "$myhostname" in
    ") echo "Does this machine have an identity crisis or something?"
     phostname=";;
    *)
     echo "Well, you said $myhostname before..."
     phostname='echo $myhostname';;
    esac
   fi
  fi
 fi
fi
case "$myhostname" in
") myhostname=noname ;;
esac
: you do not want to know about this
set $myhostname
myhostname=$1

: verify guess
if $test "$myhostname" ; then
 dflt=y
 rp='Your host name appears to be "'$myhostname'".' Right?"
 . ./myread
 case "$ans" in
 y*) ;;
 *) myhostname=";;
 esac
fi

: bad guess or no guess
while $test "X$myhostname" = X ; do
```

```
 dflt=''
 rp="Please type the (one word) name of your host:"
 . ./myread
 myhostname="$ans"
done

: translate upper to lower if necessary
case "$myhostname" in
*[A-Z]*)
 echo
 "(Normalizing case in your host name)"
 myhostname=`echo $myhostname | ./tr '[A-Z]' '[a-z]'`
 ;;
esac

?X: Do not ask for domain name if this is not used later on. In that
?X: case, the hostname may keep its domain name, but it doesn't matter.
@if MYDOMAIN || mydomain
case "$myhostname" in
*.*)
 dflt=`expr "X$myhostname" : "X[^.]*\(\..*\)"`
 myhostname=`expr "X$myhostname" : "X\([^.]*\)\."`
 echo "(Trimming domain name from host name--host name is now $myhostname)"
 ;;
*) case "$mydomain" in
 '')
?X:
?X: There is currently no way to say we do not want hostcat if mydomain is not
?X: used. One way to achieve that would be to put that code in a mydomain.U
?X: unit. However, we want to stick the sanity checks right after the domain
?X: name computation, or if none is done, right after the hostname computation.
?X:
  {
?X: If we use NIS, try ypmatch.
   test "X$hostcat" = "Xypcat hosts" &&
   ypmatch "$myhostname" hosts 2>/dev/null |\
    $sed -e 's/[ ]*#.*//; s/$/ /' > hosts
 && \
   $test -s hosts
  } || {
?X: Extract only the relevant hosts, reducing file size,
?X: remove comments, insert trailing space for later use.
?X: Test to be sure we *have* a hostcat command.  os390 doesn't.
   test "X$hostcat" != "X" &&
   $hostcat | $sed -n -e "s/[ ]*#.*//; s/\$/ /
     /[ ]$myhostname[ . ]/p" > hosts
  }
  tmp_re="[ . ]"
```

```
 if $test -f hosts; then
  $test x`$awk "/[0-9].*[  ]$myhostname$tmp_re/ { sum++ }
      END { print sum }" hosts` = x1 || tmp_re="[  ]"
  dflt=.`$awk "/[0-9].*[  ]$myhostname$tmp_re/ {for(i=2; i<=NF;i++) print \\\$i}" \
   hosts | $sort | $uniq | \
   $sed -n -e "s/$myhostname\.\([-a-zA-Z0-9_.]\)/\1/p"`
  case `$echo X$dflt` in
  X*\ *) echo "(Several hosts in the database matched hostname)"
   dflt=.
   ;;
  X.) echo "(You do not have fully-qualified names in the hosts database)"
   ;;
  esac
 else
  echo "(I cannot locate a hosts database anywhere)"
  dflt=.
 fi
 case "$dflt" in
 .)
  tans=`./loc resolv.conf X /etc /usr/etc`
  if
$test -f "$tans"; then
   echo "(Attempting domain name extraction from $tans)"
?X: Look for either a search or a domain directive.
   dflt=.`$sed -n -e 's/ / /g' \
     -e 's/^search  *\([^ ]*\).*/\1/p' $tans \
     -e 1q 2>/dev/null`
   case "$dflt" in
   .) dflt=.`$sed -n -e 's/ / /g' \
        -e 's/^domain  *\([^ ]*\).*/\1/p' $tans \
        -e 1q 2>/dev/null`
    ;;
   esac
  fi
  ;;
 esac
 case "$dflt" in
 .) echo "(No help from resolv.conf either -- attempting clever guess)"
  dflt=.`sh -c domainname 2>/dev/null`
  case "$dflt" in
  ") dflt='.';;
  .nis.*|.yp.*|.main.*) dflt=`echo $dflt | $sed -e 's/^\.[^.]*//'`;;
  esac
  ;;
 esac
 case "$dflt$osname" in
 .os390) echo "(Attempting domain name extraction from //'SYS1.TCPPARMS(TCPDATA)')"
  dflt=.`awk '/^DOMAINORIGIN/ {print $2}' "//'SYS1.TCPPARMS(TCPDATA)'" 2>/dev/null`
```

```
  ;;
  esac
  case "$dflt" in
  .) echo "(Lost all hope -- silly guess then)"
   dflt='.nonet'
   ;;
  esac
  $rm -f hosts
  ;;
 *)
 dflt="$mydomain";;
 esac;;
esac
echo " "
rp="What is your domain name?"
. ./myread
tans="$ans"
case "$ans" in
") ;;
.*) ;;
*) tans=".$tans";;
esac
mydomain="$tans"

: translate upper to lower if necessary
case "$mydomain" in
*[A-Z]*)
 echo "(Normalizing case in your domain name)"
 mydomain=`echo $mydomain | ./tr '[A-Z]' '[a-z]'`
 ;;
esac

@end
: a little sanity check here
case "$phostname" in
") ;;
*)
 case `$phostname | ./tr '[A-Z]' '[a-z]'` in
 $myhostname$mydomain|$myhostname) ;;
 *)
  case "$phostname" in
  sed*)
   echo "(That doesn't agree with your whoami.h file, by the way.)"
   ;;
  *)
   echo "(That doesn't agree with your $phostname command, by the way.)"
   ;;
  esac
```

```
 ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/myhostname.U
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```
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?RCS:
?MAKE:d_truncl: Inlibc
?MAKE: -pick add $@ %<
?S:d_truncl:
?S: This variable conditionally defines the HAS_TRUNCL symbol, which
?S: indicates to the C program that the truncl() routine is available
?S: to round long doubles towards zero. If copysignl is also present,
?S: we can emulate modfl.
?S:.
?C:HAS_TRUNCL :
?C: This symbol, if defined, indicates that the truncl routine is
?C: available. If copysignl is also present we can emulate modfl.
?C:.
?H:#$d_truncl HAS_TRUNCL  /**/
?H:.
?LINT:set d_truncl
: see if truncl exists
set truncl d_truncl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1866403897_1702416214.623051/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_truncl.U

1.1963 prometheus-client-model 0.4.0

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1.1964 libcryptsetup12 2.4.3-1ubuntu1.2

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1.1968 yajl 2.1.0-3ubuntu0.22.04.1

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1.1969 prometheus-client-model 0.3.0

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1.1970 prometheus-client 1.14.0

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1.1974 libperl5.36 5.36.0-7+deb12u1

1.1974.1 Available under license :

No license file was found, but licenses were detected in source scan.

?RCS: $Id: ccflags.U,v 3.0.1.9 1997/02/28 15:27:07 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: ccflags.U,v $
?RCS: Revision 3.0.1.9 1997/02/28 15:27:07 ram
?RCS: patch61: removed support for NO_PROTOTYPE detection on SCO
?RCS: patch61: new locincpth variable
?RCS: patch61: added info on the "additional ld flags" question

```
?RCS:
?RCS: Revision 3.0.1.8  1995/07/25  13:48:54  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.7  1995/05/12  12:08:33  ram
?RCS: patch54: now checks for cc/ccflags/ldflags
 coherency
?RCS:
?RCS: Revision 3.0.1.6  1994/10/29  16:07:02  ram
?RCS: patch36: gcc versioning no longer relies on the C compiler's name
?RCS: patch36: simplified check for gcc version checking (ADO)
?RCS:
?RCS: Revision 3.0.1.5  1994/08/29  16:06:35  ram
?RCS: patch32: propagate -posix flag from ccflags to ldflags
?RCS:
?RCS: Revision 3.0.1.4  1994/05/06  14:28:45  ram
?RCS: patch23: -fpcc-struct-return only needed in gcc 1.x (ADO)
?RCS: patch23: cppflags now computed on an option-by-option basis
?RCS: patch23: magically added cc flags now only done the first time
?RCS:
?RCS: Revision 3.0.1.3  1993/09/13  15:58:29  ram
?RCS: patch10: explicitly mention -DDEBUG just in case they need it (WAD)
?RCS: patch10: removed all the "tans" variable usage (WAD)
?RCS:
?RCS: Revision 3.0.1.2  1993/08/27  14:39:38  ram
?RCS: patch7: added support for OSF/1 machines
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:00:24  ram
?RCS: patch6: added defaults for cppflags, ccflags and ldflags
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:05:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:ccflags ldflags lkflags cppflags optimize locincpth: test cat \
 Myread Guess Options Oldconfig +gccversion mips_type +usrinc \
 package contains rm +cc cppstdin cppminus cpprun cpplast libpth \
 libs loclibpth hint usesocks sh run rm_try sysroot
?MAKE: -pick add $@ %<
?S:ccflags:
?S: This variable contains any additional C compiler flags desired by
?S: the user.  It is up to the Makefile to use this.
?S:.
?S:cppflags:
?S: This variable holds the flags that will be passed to the C pre-
?S: processor. It is up to the Makefile to use it.
?S:.
?S:optimize:
```

```
?S: This variable contains any optimizer/debugger flag that should be used.
?S: It is up to the Makefile to use it.
?S:.
?S:ldflags:
?S: This variable contains any additional C loader flags desired by
?S: the user.  It is up to the Makefile to use this.
?S:.
?S:lkflags:
?S: This variable contains any additional C partial linker flags desired
 by
?S: the user.  It is up to the Makefile to use this.
?S:.
?S:locincpth:
?S: This variable contains a list of additional directories to be
?S: searched by the compiler.  The appropriate '-I' directives will
?S: be added to ccflags.  This is intended to simplify setting
?S: local directories from the Configure command line.
?S: It's not much, but it parallels the loclibpth stuff in libpth.U.
?S:.
?T:inctest thisincl xxx inclwanted ftry previous thislibdir
?T:EBUGGING DEBUGGING
?T:check flag callback checkccflag
?F:!cpp.c !gcctest !try
?D:cppflags=''
?D:ccflags=''
?D:ldflags=''
?D:optimize=''
?LINT:extern _sysroot
?INIT:: Possible local include directories to search.
?INIT:: Set locincpth to "" in a hint file to defeat local include searches.
?INIT:locincpth="/usr/local/include /opt/local/include /usr/gnu/include"
?INIT:locincpth="$locincpth /opt/gnu/include /usr/GNU/include /opt/GNU/include"
?INIT::
?INIT:: no include file wanted by default
?INIT:inclwanted=''
?INIT:
?INIT:: Enable
 -DEBUGGING and -DDEBUGGING from the command line
?INIT:EBUGGING=''
?INIT:DEBUGGING=''
?INIT:
: determine optimization, if desired, or use for debug flag also
?X: Allow for Configure -Uoptimize -- it's not strictly sensible, but
?X: it has happened and we know what they mean.   AD  2/16/98
case "$optimize" in
' '|$undef) dflt='none';;
'') dflt='-O';;
*) dflt="$optimize";;
```

```
esac
$cat <<EOH

By default, $package compiles with the -O flag to use the optimizer.
Alternately, you might want to use the symbolic debugger, which uses
the -g flag (on traditional Unix systems).  Either flag can be
specified here.  To use neither flag, specify the word "none".

EOH
rp="What optimizer/debugger flag should be used?"
. ./myread
optimize="$ans"
case "$optimize" in
'none') optimize=" ";;
esac

: Check what DEBUGGING is required from the command line
: -DEBUGGING      or -DDEBUGGING or
: -DEBUGGING=both   = -g + -DDEBUGGING
: -DEBUGGING=-g   or -Doptimize=-g = -g
: -DEBUGGING=none or -UDEBUGGING =
: -DEBUGGING=old
  or -DEBUGGING=default = ? $optimize
case "$EBUGGING" in
") ;;
*) DEBUGGING=$EBUGGING ;;
esac

case "$DEBUGGING" in
-g|both|$define)
   case "$optimize" in
 *-g*) ;;
 *)    optimize="$optimize -g" ;;
   esac ;;
none|$undef)
   case "$optimize" in
 *-g*) set `echo "X $optimize " | sed 's/ -g / /'`
  shift
  optimize="$*"
  ;;
   esac ;;
esac

dflt="
case "$DEBUGGING" in
both|$define) dflt='-DDEBUGGING'
esac
```

```
: argument order is deliberate, as the flag will start with - which set could
: think is an option
checkccflag='check=$1; flag=$2; callback=$3;
echo " ";
echo "Checking if your compiler accepts $flag" >&4;
[ "X$sysroot" != "X" ] && echo "For sysroot = $sysroot";
echo "int main(void) { return 0; }" > gcctest.c;
if $cc $_sysroot -O2 $flag -o gcctest gcctest.c 2>gcctest.out && $run ./gcctest; then
   echo "Yes, it does." >&4;
   if $test -s gcctest.out ; then
       echo "But your platform does not like it:";
       cat gcctest.out;
   else
 case "$ccflags" in
 *$check*)

    echo "Leaving current flags $ccflags alone." >&4
     ;;
 *) dflt="$dflt $flag";
     eval $callback
     ;;
 esac
   fi
else
   echo "Nope, it does not, but that is ok." >&4;
fi
'

: We will not override a previous value, but we might want to
: augment a hint file
case "$hint" in
default|recommended)
 case "$gccversion" in
 1.*) dflt="$dflt -fpcc-struct-return" ;;
 esac
 case "$optimize:$DEBUGGING" in
 *-g*:old) dflt="$dflt -DDEBUGGING";;
 esac
?X: check for POSIXized ISC
 case "$gccversion" in
 2.*) if $test -d /etc/conf/kconfig.d &&
   $contains _POSIX_VERSION $usrinc/sys/unistd.h >/dev/null 2>&1
  then
   # Interactive Systems (ISC) POSIX mode.
   dflt="$dflt -posix"
  fi
  ;;
 esac
```

```
?X: If the user has gcc-2.95 or greater, try adding -fno-strict-alias.
?X: Since the gcc "version" can be non-numeric, e.g.
?X: "2.95.1 19990809 (prerelease)" , we'll do the test on any version
?X: greater than 2.8.
?X: --Andy Dougherty  27 Aug 1999
 case "$gccversion" in
 1.*) ;;
 2.[0-8]*)
 ;;
 ?*) set strict-aliasing -fno-strict-aliasing
  eval $checkccflag
  ;;
 esac
?X: HMB 200405
?X: -pipe has shown a compile time speedup of about 40% on Linux and HP-UX
?X: and also worked on cygwin-1.5.9
?X: If a system fails, disable it in the hints. 99% of gcc uses binutils
 # For gcc, adding -pipe speeds up compilations for some, but apparently
 # some assemblers can't read from stdin.  (It also slows down compilations
 # in other cases, but those are apparently rarer these days.)  AD 5/2004.
 case "$gccversion" in
 ?*) set pipe -pipe
  eval $checkccflag
  ;;
 esac

?X: NWC 200712
 # on x86_64 (at least) we require an extra library (libssp) in the
 # link command line. This library is not named, so I infer that it is
 # an implementation detail that may change. Hence the safest approach
 # is to add the flag to the flags passed to the compiler at link time,
 # as that way the compiler can do the right implementation dependant
 # thing. (NWC)
 case "$ccflags" in
 *-fno-stack-protector*)

   echo "Do not add -fstack-protector nor -fstack-protector-strong" 2>&1
    ;;
 *) case "$gccversion" in
   ?*) set stack-protector-strong -fstack-protector-strong
  eval $checkccflag
  case "$dflt" in
  *-fstack-protector-strong*) ;; # It got added.
  *) # Try the plain/older -fstack-protector.
    set stack-protector -fstack-protector
    eval $checkccflag
    ;;
  esac
```

```
  ;;
     esac
     ;;
 esac
esac

?X: In USG mode, a MIPS system may need some BSD includes
case "$mips_type" in
*BSD*|") inclwanted="$locincpth $usrinc";;
*) inclwanted="$locincpth $inclwanted $usrinc/bsd";;
esac
for thisincl in $inclwanted; do
 if $test -d $thisincl; then
  if $test x$thisincl != x$usrinc; then
   case "$dflt" in
   *" -I$thisincl "*);;
   *) dflt="$dflt -I$thisincl ";;
   esac
  fi
 fi
done

?X: Include test function (header, symbol)
inctest='if $contains $2 $usrinc/$1 >/dev/null 2>&1; then
 xxx=true;
elif $contains $2 $usrinc/sys/$1 >/dev/null 2>&1; then
 xxx=true;
else
 xxx=false;
fi;
if
 $xxx; then
 case "$dflt" in
 *$2*);;
 *) dflt="$dflt -D$2";;
 esac;
fi'

set signal.h LANGUAGE_C; eval $inctest

case "$usesocks" in
$define)
 ccflags="$ccflags -DSOCKS"
 ;;
esac

case "$hint" in
default|recommended) dflt="$ccflags $dflt" ;;
```

```
*) dflt="$ccflags";;
esac

case "$dflt" in
"|' ') dflt=none;;
esac

$cat <<EOH

Your C compiler may want other flags.  For this question you should include
-I/whatever and -DWHATEVER flags and any other flags used by the C compiler,
but you should NOT include libraries or ld flags like -lwhatever.  If you
want $package to honor its debug switch, you should include -DDEBUGGING here.
Your C compiler might also need additional flags, such as -D_POSIX_SOURCE.

To use no flags, specify the word "none".

EOH
?X: strip leading space
set X $dflt
shift
dflt=${1+"$@"}
rp="Any additional cc flags?"
. ./myread
case "$ans" in
none) ccflags="";;
*) ccflags="$ans";;
esac

: the following weeds options from ccflags that are of no interest to cpp
case
 "$cppflags" in
") cppflags="$ccflags" ;;
*)  set X $ccflags; shift
   case " $cppflags " in
   *" $1 "*) ;;  # Try to avoid doubling the cppflags.
   *) cppflags="$cppflags $ccflags" ;;
   esac
   ;;
esac
case "$gccversion" in
1.*) cppflags="$cppflags -D__GNUC__"
esac
case "$mips_type" in
");;
*BSD*) cppflags="$cppflags -DSYSTYPE_BSD43";;
esac
case "$cppflags" in
```

```
");;
*)
 echo " "
 echo "Let me guess what the preprocessor flags are..." >&4
 set X $cppflags
 shift
 cppflags="
 $cat >cpp.c <<'EOM'
#define BLURFL foo

BLURFL xx LFRULB
EOM
?X:
?X: For each cc flag, try it out with both cppstdin and cpprun, since the
?X: first is almost surely a cc wrapper. We have to try both in case
?X: of cc flags like '-Olimit 2900' that are actually two words...
?X:
 previous="
 for flag in $*
 do
  case "$flag" in
  -*) ftry="$flag";;
  *) ftry="$previous $flag";;
  esac
  if $cppstdin -DLFRULB=bar $cppflags $ftry $cppminus <cpp.c \
   >cpp1.out 2>/dev/null && \
   $cpprun -DLFRULB=bar $cppflags
 $ftry $cpplast <cpp.c \
   >cpp2.out 2>/dev/null && \
   $contains 'foo.*xx.*bar' cpp1.out >/dev/null 2>&1 && \
   $contains 'foo.*xx.*bar' cpp2.out >/dev/null 2>&1
  then
   cppflags="$cppflags $ftry"
   previous="
  else
   previous="$flag"
  fi
 done
 set X $cppflags
 shift
 cppflags=${1+"$@"}
 case "$cppflags" in
 *-*)  echo "They appear to be: $cppflags";;
 esac
 $rm -f cpp.c cpp?.out
 ;;
esac
```

```
: flags used in final linking phase
case "$ldflags" in
") if ./venix; then
  dflt='-i -z'
 else
  dflt=''
 fi
 case "$ccflags" in
 *-posix*) dflt="$dflt -posix" ;;
 esac
 ;;
*) dflt="$ldflags";;
esac
# See note above about -fstack-protector
case "$ccflags" in
*-fstack-protector-strong*)
 case "$dflt" in
 *-fstack-protector-strong*) ;; # Don't add it again
 *) dflt="$dflt -fstack-protector-strong" ;;
 esac
 ;;
*-fstack-protector*)
 case "$dflt" in
 *-fstack-protector*) ;; # Don't add it again
 *) dflt="$dflt -fstack-protector" ;;
 esac
 ;;
esac

: Try to guess additional flags to pick
 up local libraries.
for thislibdir in $libpth; do
 case " $loclibpth " in
 *" $thislibdir "*)
  case "$dflt " in
  *"-L$thislibdir "*) ;;
  *)  dflt="$dflt -L$thislibdir" ;;
  esac
  ;;
 esac
done

case "$dflt" in
") dflt='none' ;;
esac

$cat <<EOH
```

```
Your C linker may need flags.  For this question you should
include -L/whatever and any other flags used by the C linker, but you
should NOT include libraries like -lwhatever.

Make sure you include the appropriate -L/path flags if your C linker
does not normally search all of the directories you specified above,
namely
 $libpth
To use no flags, specify the word "none".

EOH

rp="Any additional ld flags (NOT including libraries)?"
. ./myread
case "$ans" in
none) ldflags="";;
*) ldflags="$ans";;
esac
rmlist="$rmlist pdp11"

@if lkflags
: partial linking may need other flags
case "$lkflags" in
") case "$ldflags" in
 ") dflt='none';;
 *) dflt="$ldflags";;
 esac;;
*) dflt="$lkflags";;
esac
echo " "
rp="Partial linking flags to be used (NOT
 including -r)?"
. ./myread
case "$ans" in
none) lkflags="";;
*) lkflags="$ans";;
esac

@end
?X:
?X: If the user changes compilers after selecting a hint file, it's
?X: possible that the suggested ccflags/ldflags will be wrong.  Try to
?X: compile and run a simple test program.  Let the user see all the
?X: error messages. -- ADO and RAM
?X: Sometimes, particularly on Linux systems, there is a bad library
?X: (e.g. a dangling symlink or incompatible library or a "run-time"
?X: version but not a "development" version of a library).  This test
?X: will catch those sorts of problems too, though how to fix them
```

```
?X: may not be obvious.
?X:
: coherency check
echo " "
echo "Checking your choice of C compiler and flags for coherency..." >&4
$cat > try.c <<'EOF'
#include <stdio.h>
int main() { printf("Ok\n"); return(0); }
EOF
?X: Strip extra blanks in case some of the following variables are empty
set X $cc -o try $optimize $ccflags $ldflags try.c $libs
shift
$cat >try.msg <<'EOM'
I've tried to
 compile and run the following simple program:

EOM
$cat try.c >> try.msg

$cat >> try.msg <<EOM

I used the command:

 $*
 $run ./try

and I got the following output:

EOM
dflt=y
?X: Use "sh -c" to avoid error messages tagged with leading "Configure:".
?X: We need to try the resulting executable, because cc might yield a 0 status
?X: even when ld failed, in which case the executable will not run properly,
?X: if its x bit is set at all...
if $sh -c "$cc -o try $optimize $ccflags $ldflags try.c $libs" >>try.msg 2>&1; then
 if $sh -c "$run ./try " >>try.msg 2>&1; then
  xxx=`$run ./try`
  case "$xxx" in
  "Ok") dflt=n ;;
  *)    echo 'The program compiled OK, but produced no output.' >> try.msg ;;
  esac
 else
  echo "The program compiled OK, but exited with status $?." >>try.msg
  rp="You have a problem.  Shall I abort Configure"
  dflt=y
 fi
else
 echo "I can't compile the test program." >>try.msg
```

```
 rp="You have a BIG problem.  Shall I abort Configure"
 dflt=y
fi
case "$dflt" in
y)
 $cat
 try.msg >&4
?X: using -K will prevent default aborting--maybe they're cross compiling?
 case "$knowitall" in
 ")
  echo "(The supplied flags or libraries might be incorrect.)"
  ;;
 *) dflt=n;;
 esac
 echo " "
 . ./myread
 case "$ans" in
 n*|N*) ;;
 *) echo "Ok.  Stopping Configure." >&4
  exit 1
  ;;
 esac
 ;;
n) echo "OK, that should do.";;
esac
$rm_try gcctest gcctest.out
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/ccflags.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpagsz.U,v 3.0.1.1 1994/10/29 16:13:10 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_getpagsz.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:13:10  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:14  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?MAKE:d_getpagsz: Compile Oldconfig Myread Inlibc Findhdr
?MAKE: -pick add $@ %<
?S:d_getpagsz:
?S: This variable conditionally defines HAS_GETPAGESIZE if getpagesize()
?S: is available to get the system page size.
?S:.
?C:HAS_GETPAGESIZE
 (GETPAGESIZE):
?C: This symbol, if defined, indicates that the getpagesize system call
?C: is available to get system page size, which is the granularity of
?C: many memory management calls.
?C:.
?H:#$d_getpagsz HAS_GETPAGESIZE  /**/
?H:.
?LINT:set d_getpagsz
: see if getpagesize exists
set getpagesize d_getpagsz
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_getpagsz.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_truncate.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_truncate.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_truncate: Inlibc
?MAKE: -pick add $@ %<
?S:d_truncate:
?S: This variable conditionally defines HAS_TRUNCATE if truncate() is
?S: available to truncate files.
?S:.
?C:HAS_TRUNCATE (TRUNCATE):
?C: This symbol, if defined, indicates that the truncate routine is
?C: available to truncate files.
```

```
?C:.
?H:#$d_truncate HAS_TRUNCATE /**/
?H:.
?LINT:set
 d_truncate
: see if truncate exists
set truncate d_truncate
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_truncate.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_netdb.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_netdb: Inhdr
?MAKE: -pick add $@ %<
?S:i_netdb:
?S: This variable conditionally defines the I_NETDB symbol, and indicates
?S: whether a C program should include <netdb.h>.
?S:.
?C:I_NETDB:
?C: This symbol, if defined, indicates that <netdb.h> exists and
?C: should be included.
?C:.
?H:#$i_netdb I_NETDB  /**/
?H:.
?LINT:set i_netdb
: see if this is a netdb.h system
set netdb.h i_netdb
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_netdb.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: usecbacktrace.U,v $
?RCS:
?RCS: Copyright (c) 2014 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: usecbacktrace.U,v $
?RCS:
?MAKE:usecbacktrace: Myread Oldconfig Setvar Getfile d_backtrace
?MAKE: -pick add $@ %<
?Y:TOP
?S:usecbacktrace:
?S: This variable indicates whether we are compiling with backtrace
?S: support.
?S:.
?C:USE_C_BACKTRACE:
?C: This symbol, if defined, indicates that Perl should
?C: be built with support for backtrace.
?C:.
?H:#$usecbacktrace USE_C_BACKTRACE  /**/
?H:.
: Check if C backtrace is actually supported.
case "$usecbacktrace" in
 "") usecbacktrace=$undef ;;
 [yY]*|true|$define)
   case "$d_backtrace" in
     [yY]*|true|$define)
       ;;
     *)
       echo "This system does not support backtrace" >&4
       usecbacktrace=$undef

  ;;
     esac
   ;;
 esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/usebacktrace.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2006-2007, H.Merijn Brand
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_snprintf_l d_vsnprintf_l : Inlibc d_snprintf d_vsnprintf
?MAKE: -pick add $@ %<
```

```
?S:d_snprintf_l:
?S: This variable conditionally defines the HAS_SNPRINTF_L symbol, which
?S: indicates to the C program that the snprintf_l () library function
?S: is available.
?S:.
?S:d_vsnprintf_l:
?S: This variable conditionally defines the HAS_VSNPRINTF_L symbol, which
?S: indicates to the C program that the vsnprintf_l () library function
?S: is available.
?S:.
?C:HAS_SNPRINTF_L:
?C: This symbol, if defined, indicates that the snprintf_l () library
?C: function
 is available for use.
?C:.
?C:HAS_VSNPRINTF_L:
?C: This symbol, if defined, indicates that the vsnprintf_l () library
?C: function is available for use.
?C:.
?H:#$d_snprintf_l HAS_SNPRINTF_L /**/
?H:#$d_vsnprintf_l HAS_VSNPRINTF_L /**/
?H:.
: see if snprintf_l exists
set snprintf_l d_snprintf_l
eval $inlibc

: see if vsnprintf_l exists
set vsnprintf_l d_vsnprintf_l
eval $inlibc

case "$d_snprintf-$d_vsnprintf-$d_snprintf_l-$d_vsnprintf_l" in
"$define-$define-$define-$define")
   ;;
*) echo "(These require the basic snprintf and vsnprintf to also be available, which they aren't"
 d_snprintf_l="$undef"
 d_vsnprintf_l="$undef"
   ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_snprintf_l.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: lseektype.U,v 3.0.1.1 1994/08/29 16:30:10 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
```

```
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: lseektype.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:30:10  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lseektype lseeksize: Myread Typedef cat Compile rm_try longsize run
?MAKE: -pick add $@ %<
?S:lseektype:
?S: This variable defines lseektype to be something like off_t, long,
?S: or whatever type is used to declare
 lseek offset's type in the
?S: kernel (which also appears to be lseek's return type).
?S:.
?S:lseeksize:
?S: This variable defines lseektype to be something like off_t, long,
?S: or whatever type is used to declare lseek offset's type in the
?S: kernel (which also appears to be lseek's return type).
?S:.
?C:Off_t (LSEEKTYPE):
?C: This symbol holds the type used to declare offsets in the kernel.
?C: It can be int, long, off_t, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?C:LSEEKSIZE:
?C: This symbol holds the number of bytes used by the Off_t.
?C:.
?C:Off_t_size:
?C: This symbol holds the number of bytes used by the Off_t.
?C:.
?H:#define Off_t $lseektype  /* <offset> type */
?H:#define LSEEKSIZE $lseeksize  /* <offset> size */
?H:#define Off_t_size $lseeksize /* <offset> size */
?H:.
?F:!try
?LINT:set lseektype
: see what type lseek is declared as in the kernel
rp="What is the type used for lseek's offset on this system?"
set off_t lseektype
 long stdio.h sys/types.h
eval $typedef_ask
```

```
echo " "
echo "Checking to see how big your file offsets are..." >&4
$cat >try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
int main()
{
   printf("%d\n", (int)sizeof($lseektype));
   return(0);
}
EOCP
set try
if eval $compile_ok; then
 lseeksize=`$run ./try`
 echo "Your file offsets are $lseeksize bytes long."
else
 dflt=$longsize
 echo " "
 echo "(I can't seem to compile the test program.  Guessing...)"
 rp="What is the size of your file offsets (in bytes)?"
 . ./myread
 lseeksize="$ans"
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/lseektype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorman3dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999-2000, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorman3dir.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorman3dir vendorman3direxp installvendorman3dir: man3dir Getfile \
 Oldconfig Setprefixvar Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
```

```
?Y:TOP
?S:vendorman3dir:
?S: This variable contains the name of the directory for man3
?S: pages.  It may have a ~ on the front.
?S: The standard distribution will put nothing in this directory.
?S: Vendors
 who distribute perl may wish to place their own
?S: man3 pages in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorman3direxp:
?S: This variable is the ~name expanded version of vendorman3dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorman3dir=''
?S:installvendorman3dir:
?S: This variable is really the same as vendorman3direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorman3dir
: Set the vendorman3dir variables
case "$vendorprefix" in
'') vendorman3dir=''
 vendorman3direxp=''
 ;;
*) : determine where vendor-supplied module manual pages go.
 case "$vendorman3dir" in
 '') dflt=`echo "$man3dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
 *) dflt=$vendorman3dir ;;
 esac
 case "$dflt" in
 '|' ') dflt=none ;;
 esac
 fn=nd~+
 rp='Pathname
 for the vendor-supplied manual section 3 pages?'
 . ./getfile
 vendorman3dir="$ans"
 vendorman3direxp="$ansexp"
 ;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorman3dir" = "X" && vendorman3dir=' '
prefixvar=vendorman3dir
. ./installprefix
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/vendorman3dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sigaction.U,v 3.0.1.1 1997/02/28 15:44:29 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_sigaction.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:44:29  ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_sigaction: Csym Compile Setvar cat rm_try i_stdlib
?MAKE: -pick add $@ %<
?S:d_sigaction:
?S: This variable conditionally defines the HAS_SIGACTION symbol, which
?S: indicates that the Vr4 sigaction() routine is available.
?S:.
?C:HAS_SIGACTION:
?C: This symbol, if defined, indicates that Vr4's sigaction() routine
?C: is available.
?C:.
?H:#$d_sigaction
 HAS_SIGACTION /**/
?H:.
?T:val
?LINT:set d_sigaction
: see if we have sigaction
echo " "
if set sigaction val -f d_sigaction; eval $csym; $val; then
 echo 'sigaction() found.' >&4
?X:
?X: Solaris 2.5_x86 with SunWorks Pro C 3.0.1 doesn't have a complete
?X: sigaction structure if compiled with cc -Xc.  This compile test
?X: will fail then.  <doughera@lafcol.lafayette.edu>
?X:
 $cat > try.c <<EOP
#include <stdio.h>
#include <sys/types.h>
```

```
#include <signal.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
{
   struct sigaction act, oact;
   act.sa_flags = 0;
   oact.sa_handler = 0;
   /* so that act and oact are used */
   exit(act.sa_flags == 0 &&  oact.sa_handler == 0);
}
EOP
 set try
 if eval $compile_ok; then
  val="$define"
 else
  echo "But you don't seem to have a usable struct sigaction." >&4
  val="$undef"
 fi
else
 echo 'sigaction NOT found.' >&4
 val="$undef"
fi
set d_sigaction; eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_sigaction.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_byacc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_byacc.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:31:14  ram
?RCS: patch61: created
?RCS:
```

```
?MAKE:d_byacc: byacc Setvar
?MAKE: -pick add $@ %<
?S:d_byacc:
?S: This variable indicates whether byacc is available.
?S: If the user has specified 'portability', then Makefile.SH
?S: sees $byacc='byacc' whether or not the user actually has
?S: byacc.  This variable allows us to determine in a makefile
?S: if we really
 have byacc.
?S:.
?LINT:set d_byacc
: Check if we really have byacc
case "$byacc" in
"|'byacc') val="$undef" ;;
*) val="$define" ;;
esac
set d_byacc
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_byacc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Obsol_sh.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Obsol_sh.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:11  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file is prepended to .MT/Obsol_sh if that file is not empty. That file
?X: contains the necessary mappings of new symbols to obsolete ones.
?X:
?MAKE:Obsol_sh:
?MAKE: -pick prepend $@ ./Obsol_sh
?LINT:nocomment
#
# The following symbols are obsolete. They are mapped to the new
# symbols only to ease the transition process. The
```

```
 sources should be
# updated so as to use the new symbols only, since supporting of those
# obsolete symbols may end without notice.
#
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Obsol_sh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_eofpipe.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:12:40  ram
?RCS: patch36: call ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_eofpipe: cat +cc +ccflags +libs rm Oldconfig Guess echo n c
?MAKE: -pick add $@ %<
?S:d_eofpipe:
?S: This variable conditionally defines the EOFPIPE symbol, which
?S: indicates to the C program that select will correctly detect the EOF
?S: condition when pipe
 is closed from the other end.
?S:.
?C:EOFPIPE:
?C: This symbol, if defined, indicates that EOF condition will be detected
?C: by the reader of the pipe when it is closed by the writing process.
?C: That is, a select() call on that file descriptor will not block when
?C: only an EOF remains (typical behaviour for BSD systems).
?C:.
?H:#$d_eofpipe EOFPIPE  /**/
?H:.
?F:!mpipe
: see if pipe correctly gives the EOF condition
echo " "
case "$d_eofpipe" in
")
```

```
 echo "Let's see if your pipes return EOF to select() upon closing..." >&4
 $cat >pipe.c <<'EOP'
int main()
{
 int pd[2];
 int mask;

 pipe(pd);
 if (0 == fork()) {
  close(pd[0]);
  close(pd[1]);
  exit(0);
 }

 close(pd[1]);
 mask = 1 << pd[0];
 alarm(2);
 select(32, &mask, (int *) 0, (int *) 0, (char *) 0);
 if (0 == read(pd[0], &mask, 1))
  exit(0);

 exit(1);
}
EOP
 if $cc $ccflags -o pipe pipe.c $libs >/dev/null 2>&1; then
?X: Use a script to avoid the possible 'alarm call' message
  echo "./pipe || exit 1" > mpipe
  chmod +x
 mpipe
  ./mpipe >/dev/null 2>&1
  case $? in
  0) d_eofpipe="$define";;
  *) d_eofpipe="$undef";;
  esac
 else
  echo "(The test program did not compile correctly -- Guessing.)"
  if ./bsd; then
   d_eofpipe="$define"
  else
   d_eofpipe="$undef"
  fi
 fi
 case "$d_eofpipe" in
 "$define") echo "Yes, they do.";;
 *) echo "No, they don't! (sigh)";;
 esac
 ;;
*)
```

```
 $echo $n "Your pipes $c"
 case "$d_eofpipe" in
 "$define") echo "allow select() to see EOF upon closing.";;
 *) echo "won't let select() see EOF on closing.";;
 esac
 ;;
esac
$rm -f *pipe* core
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_eofpipe.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_static_inline.U,v $
?RCS:
?RCS: Copyright (c) 2010 Andrew Dougherty
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafayette.edu>
?RCS:
?MAKE:d_static_inline perl_static_inline: Compile Setvar gccversion \
 cat echo run hint rm rm_try
?MAKE: -pick add $@ %<
?S:d_static_inline:
?S: This variable conditionally defines the HAS_STATIC_INLINE symbol,
?S: which indicates that the C compiler supports C99-style static
?S: inline.  That is, the function can't be called from another
?S: translation unit.
?S:.
?S:perl_static_inline:
?S: This variable defines the PERL_STATIC_INLINE
 symbol to
?S: the best-guess incantation to use for static inline functions.
?S: Possibilities include
?S:  static inline       (c99)
?S:  static __inline__   (gcc -ansi)
?S:  static __inline     (MSVC)
?S:  static _inline      (older MSVC)
?S:  static              (c89 compilers)
?S:.
?C:HAS_STATIC_INLINE :
?C: This symbol, if defined, indicates that the C compiler supports
```

```
?C: C99-style static inline.  That is, the function can't be called
?C: from another translation unit.
?C:.
?C:PERL_STATIC_INLINE:
?C: This symbol gives the best-guess incantation to use for static
?C: inline functions.  If HAS_STATIC_INLINE is defined, this will
?C: give C99-style inline.  If HAS_STATIC_INLINE is not defined,
?C: this will give a plain 'static'.  It will always be defined
?C: to something that gives static linkage.
?C: Possibilities include
?C:  static inline       (c99)
?C:  static __inline__   (gcc -ansi)
?C:  static __inline     (MSVC)
?C:  static _inline      (older MSVC)
?C:  static
        (c89 compilers)
?C:.
?H:#$d_static_inline HAS_STATIC_INLINE    /**/
?H:#define PERL_STATIC_INLINE $perl_static_inline /**/
?H:.
?LINT:set d_static_inline
?T:inline xxx
?F:!try
: see what flavor, if any, of static inline is supported
echo " "
echo "Checking to see if your system supports static inline..."
?X: Build two programs.  The first uses static inline in file a.c and
?X: should work.  The second also includes b.c which tries to link against
?X: the static function in a.c.  This should fail.
?X:.
$cat > try.c <<'EOCP'
#include <stdlib.h>
extern int f_via_a(int x);
extern int f_via_b(int x);
int main(int argc, char **argv)
{
   int y;

   y = f_via_a(0);
#ifdef USE_B
   y = f_via_b(0);
#endif
   if (y == 42) {
      return EXIT_SUCCESS;
   }
   else {
      return EXIT_FAILURE;
   }
```

```
}
EOCP
$cat > a.c <<'EOCP'
static INLINE int f(int x) {
   int y;
   y = x + 42;
   return y;
}

int f_via_a(int x)
{
   return f(x);
}
EOCP
$cat > b.c <<'EOCP'
extern int f(int x);

int
 f_via_b(int x)
{
   return f(x);
}
EOCP

# Respect a hint (or previous) value for perl_static_inline, if there is one.
case "$perl_static_inline" in
") # Check the various possibilities, and break out on success.
 # For gcc, prefer __inline__, which will still permit
 # cflags.SH to add in -ansi.
 case "$gccversion" in
  ") xxx="inline __inline__ __inline _inline";;
  *)  xxx="__inline__ inline __inline _inline";;
 esac
 for inline in $xxx; do
  set try -DINLINE=$inline a.c
  if eval $compile && $run ./try; then
   # Now make sure there is no external linkage of static
   # functions
   set try -DINLINE=$inline -DUSE_B a.c b.c
   if eval $compile && $run ./try; then
    $echo "Your compiler supports static $inline, " >&4
    $echo "but it also creates an external definition," >&4
    $echo "so I won't use it." >&4
    val=$undef
   else
    $echo "Your compiler supports static $inline." >&4
    val=$define
    perl_static_inline="static $inline";
```

```
    break;
   fi
  else
   $echo
 "Your compiler does NOT support static $inline." >&4
   val="$undef"
  fi
 done
 ;;
*inline*) # Some variant of inline exists.
 echo "Keeping your $hint value of $perl_static_inline."
 val=$define
 ;;
static)  # No inline capabilities
 echo "Keeping your $hint value of $perl_static_inline."
 val=$undef
 ;;
*)  # Unrecognized previous value -- blindly trust the supplied
 # value and hope it makes sense.  Use old value for
 # d_static_inline, if there is one.
 echo "Keeping your $hint value of $perl_static_inline."
 case "$d_static_inline" in
  ") val=$define ;;
  *)  val=$d_static_inline ;;
 esac
 ;;
esac
# Fallback to plain 'static' if nothing worked.
case "$perl_static_inline" in
")
 perl_static_inline="static"
 val=$undef
 ;;
esac
set d_static_inline
eval $setvar
$rm -f a.[co] b.[co]
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_static_inline.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Options.U,v $
?RCS: Revision 3.0.1.7  1997/02/28  15:08:15  ram
?RCS: patch61: optdef.sh now starts with a "startsh"
?RCS: patch61: moved some code from Head.U
?RCS:
?RCS: Revision 3.0.1.6  1995/09/25  09:14:46  ram
?RCS: patch59: protected option parsing code against 'echo -*' option failure
?RCS:
?RCS: Revision 3.0.1.5  1995/05/12  12:04:52  ram
?RCS: patch54: added -K option for experts
?RCS:
?RCS: Revision 3.0.1.4  1995/01/30  14:27:52  ram
?RCS: patch49: this unit now exports file optdef.sh,
 not a variable
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:19:00  ram
?RCS: patch45: new -O option allowing -D and -U to override config.sh settings
?RCS: patch45: file optdef.sh is no longer removed after sourcing
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  15:58:06  ram
?RCS: patch36: ensure option definition file is removed before appending
?RCS: patch36: protect variable definitions with spaces in them
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:55:44  ram
?RCS: patch30: now uses new me symbol to tag error messages
?RCS: patch30: new -D and -U options to define/undef symbols (JHI)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Command line parsing. It is really important that the variables used here
?X: be not listed in the MAKE line, or they will be saved in config.sh and
?X: loading this file to fetch default answers would clobber the values set
?X: herein.
?X:
?MAKE:Options: startsh
?MAKE: -pick wipe $@ %<
?V:reuseval
 alldone error realsilent silent extractsh fastread \
 override knowitall: config_sh
?T:arg argn symbol config_arg0 config_args config_argc xxx yyy zzz uuu
```

```
?T:args_exp args_sep arg_exp
?F:!Configure
?F:./optdef.sh ./cmdline.opt ./posthint.sh ./cmdl.opt
: Save command line options in file UU/cmdline.opt for later use in
: generating config.sh.
?X: This temporary file will be read by Oldsym.U.  I used a temporary
?X: file to preserve all sorts of potential command line quotes and
?X: also because we don't know in advance how many variables we'll
?X: need, so I can't actually declare them on the MAKE line.
?X: The config_args variable won't be quite correct if Configure is
?X: fed something like    ./Configure -Dcc="gcc -B/usr/ccs/bin/"
?X: since the quotes are gone by the time we see them.  You'd have to
?X: reconstruct the command line from the config_arg? lines, but since
?X: I don't imagine anyone actually having to do that, I'm not going
?X: to worry too much.
cat > cmdline.opt
 <<EOSH
: Configure command line arguments.
config_arg0='$0'
config_args='$*'
config_argc=$#
EOSH
argn=1
args_exp=''
args_sep=''
for arg in "$@"; do
 cat >>cmdline.opt <<EOSH
config_arg$argn='$arg'
EOSH
?X: Extreme backslashitis: replace each ' by '''''
 cat <<EOC | sed -e "s/'/'''''''''''''''/g" > cmdl.opt
$arg
EOC
 arg_exp=`cat cmdl.opt`
 args_exp="$args_exp$args_sep'$arg_exp'"
 argn=`expr $argn + 1`
 args_sep=' '
done
?X: args_exp is good for restarting self: eval "set X $args_exp"; shift; $0 "$@"
?X: used by hints/os2.sh in Perl, for instance
rm -f cmdl.opt

: produce awk script to parse command line options
cat >options.awk <<'EOF'
BEGIN {
 optstr = "A:dD:eEf:hKOrsSU:V"; # getopt-style specification

 len = length(optstr);
```

```
 for (i = 1; i <= len; i++) {
  c = substr(optstr, i, 1);
?X: some older awk's do not have the C ?: construct
  if (i < len) a = substr(optstr, i + 1, 1); else a = "";
  if (a == ":") {
   arg[c] = 1;
   i++;
  }
  opt[c] = 1;
 }
}
{
 expect = 0;
 str = $0;
 if (substr(str,
 1, 1) != "-") {
  printf("'%s'\n", str);
  next;
 }
 len = length($0);
 for (i = 2; i <= len; i++) {
  c = substr(str, i, 1);
  if (!opt[c]) {
   printf("-%s\n", substr(str, i));
   next;
  }
  printf("-%s\n", c);
  if (arg[c]) {
   if (i < len)
    printf("'%s'\n", substr(str, i + 1));
   else
    expect = 1;
   next;
  }
 }
}
END {
 if (expect)
  print "?";
}
EOF

: process the command line options
?X: Use "$@" to keep arguments with spaces in them from being split apart.
?X: For the same reason, awk will output quoted arguments and the final eval
?X: removes them and sets a proper $* array. An 'X' is prependend to each
?X: argument before being fed to echo to guard against 'echo -x', where -x
?X: would be understood as an echo option! It is removed before feeding awk.
```

```
set X `for arg in "$@"; do echo "X$arg"; done |
 sed -e s/X// | awk -f options.awk`
eval "set $*"
shift
rm -f options.awk

: set up default values
fastread=''
reuseval=false
config_sh=''
alldone=''
error=''
silent=''
extractsh=''
override=''
knowitall=''
rm
 -f optdef.sh posthint.sh
cat >optdef.sh <<EOS
$startsh
EOS

?X:
?X: Given that we now have the possibility to execute Configure remotely
?X: thanks to the new src.U support, we have to face the possibility
?X: of having to ask where the source lie, which means we need the Myread.U
?X: stuff and possibly other things that might echo something on the
?X: screen...
?X:
?X: That's not pretty, and might be confusing in 99% of the time. So...
?X: We introduce a new realsilent variable which is set when -s is given,
?X: and we force silent=true if -S is supplied. The Extractall.U unit
?X: will then undo the >&4 redirection based on the value of the
?X: realsilent variable... -- RAM, 18/93/96
?X:

: option parsing
while test $# -gt 0; do
 case "$1" in
 -d) shift; fastread=yes;;
 -e) shift; alldone=cont;;
 -f)
  shift
  cd ..
  if test -r "$1"; then
   config_sh="$1"
  else
   echo "$me: cannot read config file $1." >&2
```

```
  error=true
 fi
 cd UU
 shift;;
-h)
shift; error=true;;
-r) shift; reuseval=true;;
-s) shift; silent=true; realsilent=true;;
-E) shift; alldone=exit;;
-K) shift; knowitall=true;;
-O) shift; override=true;;
-S) shift; silent=true; extractsh=true;;
-D)
 shift
 case "$1" in
 *=)
  echo "$me: use '-U symbol=', not '-D symbol='." >&2
  echo "$me: ignoring -D $1" >&2
  ;;
 *=*) echo "$1" | \
   sed -e "s/'/'\''\''/g" -e "s/=\(.*\)/='\1'/" >> optdef.sh;;
 *) echo "$1='define'" >> optdef.sh;;
 esac
 shift
 ;;
-U)
 shift
 case "$1" in
 *=) echo "$1" >> optdef.sh;;
 *=*)
  echo "$me: use '-D symbol=val', not '-U symbol=val'." >&2
  echo "$me: ignoring -U $1" >&2
  ;;
 *) echo "$1='undef'" >> optdef.sh;;
 esac
 shift
 ;;
-A)
    shift
    xxx=''
    yyy="$1"
    zzz=''
    uuu=undef
    case "$yyy" in
          *=*) zzz=`echo "$yyy"|sed 's!=.*!!'`
               case "$zzz" in
               *:*) zzz='' ;;
               *)   xxx=append
```

```
                zzz=" "`echo
"$yyy"|sed 's!^[^=]*=!!'`
                yyy=`echo "$yyy"|sed 's!=.*!!'` ;;
            esac
            ;;
        esac
        case "$xxx" in
        ")  case "$yyy" in
            *:*) xxx=`echo "$yyy"|sed 's!:.*!!'`
                yyy=`echo "$yyy"|sed 's!^[^:]*:!!'`
                zzz=`echo "$yyy"|sed 's!^[^=]*=!!'`
                yyy=`echo "$yyy"|sed 's!=.*!!'` ;;
            *)   xxx=`echo "$yyy"|sed 's!:.*!!'`
                yyy=`echo "$yyy"|sed 's!^[^:]*:!!'` ;;
            esac
            ;;
        esac
    case "$xxx" in
    append)
 echo "$yyy=\"\${$yyy}$zzz\"" >> posthint.sh ;;
    clear)
 echo "$yyy=""   >> posthint.sh ;;
    define)
        case "$zzz" in
 ") zzz=define ;;
 esac
 echo "$yyy='$zzz'"  >> posthint.sh ;;
    eval)
 echo "eval \"$yyy=$zzz\"" >> posthint.sh ;;
    prepend)
 echo "$yyy=\"$zzz\${$yyy}\"" >> posthint.sh ;;
    undef)
        case "$zzz" in
 ")
zzz="$uuu" ;;
 esac
 echo "$yyy=$zzz"  >> posthint.sh ;;
        *)  echo "$me: unknown -A command '$xxx', ignoring -A $1" >&2 ;;
    esac
    shift
    ;;
 -V) echo "$me generated by metaconfig <VERSION> PL<PATCHLEVEL>." >&2
    exit 0;;
 --) break;;
 -*) echo "$me: unknown option $1" >&2; shift; error=true;;
 *) break;;
 esac
done
```

```
case "$error" in
true)
 cat >&2 <<EOM
Usage: $me [-dehrsEKOSV] [-f config.sh] [-D symbol] [-D symbol=value]
              [-U symbol] [-U symbol=] [-A command:symbol...]
 -d : use defaults for all answers.
 -e : go on without questioning past the production of config.sh.
 -f : specify an alternate default configuration file.
 -h : print this help message and exit (with an error status).
 -r : reuse C symbols value if possible (skips costly nm extraction).
 -s : silent mode, only echoes questions and essential information.
 -D : define symbol to have some value:
       -D symbol         symbol gets the value 'define'
       -D symbol=value
   symbol gets the value 'value'
 -E : stop at the end of questions, after having produced config.sh.
 -K : do not use unless you know what you are doing.
 -O : let -D and -U override definitions from loaded configuration file.
 -S : perform variable substitutions on all .SH files (can mix with -f)
 -U : undefine symbol:
       -U symbol    symbol gets the value 'undef'
       -U symbol=   symbol gets completely empty
 -A : manipulate symbol after the platform specific hints have been applied:
  -A symbol=value  append " "value to symbol
  -A append:symbol=value  append value to symbol
  -A define:symbol=value  define symbol to have value
       -A clear:symbol  define symbol to be "
  -A define:symbol  define symbol to be 'define'
  -A eval:symbol=value  define symbol to be eval of value
  -A prepend:symbol=value prepend value to symbol
  -A undef:symbol  define symbol to be 'undef'
  -A undef:symbol=  define symbol to be "
 -V : print version number and exit (with
 a zero status).
EOM
 exit 1
 ;;
esac

?X:
?X: Unless they specified either -S or both -d and -e/E, make sure we're
?X: running interactively, i.e. attached to a terminal. Moved from Head.U to
?X: be able to handle batch configurations...
?X:
?X: We have to hardwire the Configure name and cannot use $me, since if they
?X: said 'sh <Configure', then $me is 'sh'...
?X:
```

```
: Sanity checks
case "$fastread$alldone" in
yescont|yesexit) ;;
*)
 case "$extractsh" in
 true) ;;
 *)
  if test ! -t 0; then
   echo "Say 'sh Configure', not 'sh <Configure'"
   exit 1
  fi
  ;;
 esac
 ;;
esac

?X: In silent mode, the standard output is closed. Questions are asked by
?X: outputing on file descriptor #4, which is the original stdout descriptor.
?X: This filters out all the "junk", since all the needed information is written
?X: on #4. Note that ksh will not let us redirect output if the file descriptor
?X: has not be defined yet, unlike sh, hence the following line...--RAM.
exec 4>&1
case "$silent" in
true)
 exec 1>/dev/null;;
esac

: run the defines and the undefines, if any, but leave the file out there...
touch optdef.sh
. ./optdef.sh
: create the posthint manipulation script and leave the file out there...
?X: this file will be perused by Oldconfig.U
touch posthint.sh
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Options.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999-2016 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_PRIfldbl sPRIfldbl d_PRIgldbl d_PRIFUldbl sPRIGUldbl d_PRIEUldbl \
 sPRIgldbl d_PRIeldbl sPRIeldbl sPRIFUldbl d_PRIGUldbl sPRIEUldbl \
```

```
 d_SCNfldbl  d_double_style_vax d_double_style_ieee \
 d_double_style_ibm d_double_style_cray d_double_has_subnormals \
 d_double_has_inf d_double_has_nan d_double_has_negative_zero \
 sSCNfldbl doublekind: \
 d_longdbl longdblsize doublesize uselongdouble test echo cat rm_try \
 Setvar Compile run i_stdlib osname gccversion ccflags
?MAKE: -pick add $@ %<
?S:doublekind:
?S: This variable, if defined, encodes the type of a double:
?S:  1 = IEEE 754 32-bit little endian,
?S:  2 = IEEE 754 32-bit big endian,
?S:  3 = IEEE 754 64-bit little endian,
?S:  4 = IEEE
 754 64-bit big endian,
?S:  5 = IEEE 754 128-bit little endian,
?S:  6 = IEEE 754 128-bit big endian,
?S:  7 = IEEE 754 64-bit mixed endian le-be,
?S:  8 = IEEE 754 64-bit mixed endian be-le,
?S:  9 = VAX 32bit little endian F float format
?S: 10 = VAX 64bit little endian D float format
?S: 11 = VAX 64bit little endian G float format
?S: 12 = IBM 32bit format
?S: 13 = IBM 64bit format
?S: 14 = Cray 64bit format
?S: -1 = unknown format.
?S:.
?S:d_PRIfldbl:
?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates that stdio has a symbol to print long doubles.
?S:.
?S:d_PRIgldbl:
?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates that stdio has a symbol to print long doubles.
?S:.
?S:d_PRIeldbl:
?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates that stdio has a symbol to print long doubles.
?S:.
?S:d_PRIFUldbl:
?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates
 that stdio has a symbol to print long doubles.
?S: The 'U' in the name is to separate this from d_PRIfldbl so that even
?S: case-blind systems can see the difference.
?S:.
?S:d_PRIGUldbl:
?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates that stdio has a symbol to print long doubles.
```

?S: The 'U' in the name is to separate this from d_PRIgldbl so that even
?S: case-blind systems can see the difference.
?S:.
?S:d_PRIEUldbl:
?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates that stdio has a symbol to print long doubles.
?S: The 'U' in the name is to separate this from d_PRIeldbl so that even
?S: case-blind systems can see the difference.
?S:.
?S:d_SCNfldbl:
?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates that stdio has a symbol to scan long doubles.
?S:.
?S:sPRIfldbl:
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'f') for
 output.
?S:.
?S:sPRIgldbl:
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'g') for output.
?S:.
?S:sPRIeldbl:
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'e') for output.
?S:.
?S:sPRIFUldbl:
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'F') for output.
?S: The 'U' in the name is to separate this from sPRIfldbl so that even
?S: case-blind systems can see the difference.
?S:.
?S:sPRIGUldbl:
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'G') for output.
?S: The 'U' in the name is to separate this from sPRIgldbl so that even
?S: case-blind systems can see the difference.
?S:.
?S:sPRIEUldbl:
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'E') for output.
?S: The 'U' in the name is to separate this from sPRIeldbl so that even
?S: case-blind
 systems can see the difference.
?S:.
?S:sSCNfldbl:
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'f') for input.

```
?S:.
?S:d_double_has_inf:
?S: This variable conditionally defines the symbol DOUBLE_HAS_INF
?S: which indicates that the double type has an infinity.
?S:.
?S:d_double_has_nan:
?S: This variable conditionally defines the symbol DOUBLE_HAS_NAN
?S: which indicates that the double type has a not-a-number.
?S:.
?S:d_double_has_negative_zero:
?S: This variable conditionally defines the symbol DOUBLE_HAS_NEGATIVE_ZERO
?S: which indicates that the double type has a negative zero.
?S:.
?S:d_double_has_subnormals:
?S: This variable conditionally defines the symbol DOUBLE_HAS_SUBNORMALS
?S: which indicates that the double type has subnormals (denormals).
?S:.
?S:d_double_style_cray:
?S: This variable conditionally defines the symbol DOUBLE_STYLE_CRAY
?S: which indicates that the double is the 64-bit CRAY mainframe
 format.
?S:.
?S:d_double_style_ibm:
?S: This variable conditionally defines the symbol DOUBLE_STYLE_IBM,
?S: which indicates that the double is the 64-bit IBM mainframe format.
?S:.
?S:d_double_style_ieee:
?S: This variable conditionally defines the symbol DOUBLE_STYLE_IEEE,
?S: which indicates that the double is the 64-bit IEEE 754.
?S:.
?S:d_double_style_vax:
?S: This variable conditionally defines the symbol DOUBLE_STYLE_VAX,
?S: which indicates that the double is the 64-bit VAX format D or G.
?S:.
?C:PERL_PRIfldbl:
?C: This symbol, if defined, contains the string used by stdio to
?C: format long doubles (format 'f') for output.
?C:.
?C:PERL_PRIgldbl:
?C: This symbol, if defined, contains the string used by stdio to
?C: format long doubles (format 'g') for output.
?C:.
?C:PERL_PRIeldbl:
?C: This symbol, if defined, contains the string used by stdio to
?C: format long doubles (format 'e') for output.
?C:.
?C:PERL_PRIFldbl:
?C: This symbol, if defined, contains the string used by stdio
```

to
?C: format long doubles (format 'f') for output.
?C:.
?C:PERL_PRIGldbl:
?C: This symbol, if defined, contains the string used by stdio to
?C: format long doubles (format 'g') for output.
?C:.
?C:PERL_PRIEldbl:
?C: This symbol, if defined, contains the string used by stdio to
?C: format long doubles (format 'e') for output.
?C:.
?C:PERL_SCNfldbl:
?C: This symbol, if defined, contains the string used by stdio to
?C: format long doubles (format 'f') for input.
?C:.
?C:DOUBLEKIND:
?C: DOUBLEKIND will be one of
?C: DOUBLE_IS_IEEE_754_32_BIT_LITTLE_ENDIAN
?C: DOUBLE_IS_IEEE_754_32_BIT_BIG_ENDIAN
?C: DOUBLE_IS_IEEE_754_64_BIT_LITTLE_ENDIAN
?C: DOUBLE_IS_IEEE_754_64_BIT_BIG_ENDIAN
?C: DOUBLE_IS_IEEE_754_128_BIT_LITTLE_ENDIAN
?C: DOUBLE_IS_IEEE_754_128_BIT_BIG_ENDIAN
?C: DOUBLE_IS_IEEE_754_64_BIT_MIXED_ENDIAN_LE_BE
?C: DOUBLE_IS_IEEE_754_64_BIT_MIXED_ENDIAN_BE_LE
?C: DOUBLE_IS_VAX_F_FLOAT
?C: DOUBLE_IS_VAX_D_FLOAT
?C: DOUBLE_IS_VAX_G_FLOAT
?C: DOUBLE_IS_IBM_SINGLE_32_BIT
?C: DOUBLE_IS_IBM_DOUBLE_64_BIT
?C: DOUBLE_IS_CRAY_SINGLE_64_BIT
?C: DOUBLE_IS_UNKNOWN_FORMAT
?C:.
?C:DOUBLE_HAS_INF:
?C: This
symbol, if defined, indicates that the double has
?C: the infinity.
?C:.
?C:DOUBLE_HAS_NAN:
?C: This symbol, if defined, indicates that the double has
?C: the not-a-number.
?C:.
?C:DOUBLE_HAS_NEGATIVE_ZERO:
?C: This symbol, if defined, indicates that the double has
?C: the negative_zero.
?C:.
?C:DOUBLE_HAS_SUBNORMALS:
?C: This symbol, if defined, indicates that the double has

```
?C: the subnormals (denormals).
?C:.
?C:DOUBLE_STYLE_CRAY:
?C: This symbol, if defined, indicates that the double is
?C: the 64-bit CRAY mainframe format.
?C:.
?C:DOUBLE_STYLE_IBM:
?C: This symbol, if defined, indicates that the double is
?C: the 64-bit IBM mainframe format.
?C:.
?C:DOUBLE_STYLE_IEEE:
?C: This symbol, if defined, indicates that the double is
?C: the 64-bit IEEE 754.
?C:.
?C:DOUBLE_STYLE_VAX:
?C: This symbol, if defined, indicates that the double is
?C: the 64-bit VAX format D or G.
?C:.
?LINT:known
 DOUBLE_IS_IEEE_754_32_BIT_LITTLE_ENDIAN
?LINT:known DOUBLE_IS_IEEE_754_32_BIT_BIG_ENDIAN
?LINT:known DOUBLE_IS_IEEE_754_64_BIT_LITTLE_ENDIAN
?LINT:known DOUBLE_IS_IEEE_754_64_BIT_BIG_ENDIAN
?LINT:known DOUBLE_IS_IEEE_754_128_BIT_LITTLE_ENDIAN
?LINT:known DOUBLE_IS_IEEE_754_128_BIT_BIG_ENDIAN
?LINT:known DOUBLE_IS_IEEE_754_64_BIT_MIXED_ENDIAN_LE_BE
?LINT:known DOUBLE_IS_IEEE_754_64_BIT_MIXED_ENDIAN_BE_LE
?LINT:known DOUBLE_IS_VAX_F_FLOAT
?LINT:known DOUBLE_IS_VAX_D_FLOAT
?LINT:known DOUBLE_IS_VAX_G_FLOAT
?LINT:known DOUBLE_IS_IBM_SINGLE_32_BIT
?LINT:known DOUBLE_IS_IBM_DOUBLE_64_BIT
?LINT:known DOUBLE_IS_CRAY_SINGLE_64_BIT
?LINT:known DOUBLE_IS_UNKNOWN_FORMAT
?H:#define DOUBLEKIND $doublekind  /**/
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_32_BIT_LITTLE_ENDIAN 1
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_32_BIT_BIG_ENDIAN 2
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_64_BIT_LITTLE_ENDIAN 3
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_64_BIT_BIG_ENDIAN 4
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_128_BIT_LITTLE_ENDIAN 5
?H:?DOUBLEKIND:#define
 DOUBLE_IS_IEEE_754_128_BIT_BIG_ENDIAN 6
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_64_BIT_MIXED_ENDIAN_LE_BE 7
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_64_BIT_MIXED_ENDIAN_BE_LE 8
?H:?DOUBLEKIND:#define DOUBLE_IS_VAX_F_FLOAT 9
?H:?DOUBLEKIND:#define DOUBLE_IS_VAX_D_FLOAT 10
?H:?DOUBLEKIND:#define DOUBLE_IS_VAX_G_FLOAT 11
?H:?DOUBLEKIND:#define DOUBLE_IS_IBM_SINGLE_32_BIT 12
```

```
?H:?DOUBLEKIND:#define DOUBLE_IS_IBM_DOUBLE_64_BIT 13
?H:?DOUBLEKIND:#define DOUBLE_IS_CRAY_SINGLE_64_BIT 14
?H:?DOUBLEKIND:#define DOUBLE_IS_UNKNOWN_FORMAT  -1
?H:#$d_PRIfldbl PERL_PRIfldbl $sPRIfldbl /**/
?H:#$d_PRIgldbl PERL_PRIgldbl $sPRIgldbl /**/
?H:#$d_PRIeldbl PERL_PRIeldbl $sPRIeldbl /**/
?H:#$d_PRIFUldbl PERL_PRIFldbl $sPRIFUldbl /**/
?H:#$d_PRIGUldbl PERL_PRIGldbl $sPRIGUldbl /**/
?H:#$d_PRIEUldbl PERL_PRIEldbl $sPRIEUldbl /**/
?H:#$d_SCNfldbl PERL_SCNfldbl $sSCNfldbl /**/
?H:#$d_double_has_inf DOUBLE_HAS_INF
?H:#$d_double_has_nan DOUBLE_HAS_NAN
?H:#$d_double_has_negative_zero
 DOUBLE_HAS_NEGATIVE_ZERO
?H:#$d_double_has_subnormals DOUBLE_HAS_SUBNORMALS
?H:#$d_double_style_cray DOUBLE_STYLE_CRAY
?H:#$d_double_style_ibm DOUBLE_STYLE_IBM
?H:#$d_double_style_ieee DOUBLE_STYLE_IEEE
?H:#$d_double_style_vax DOUBLE_STYLE_VAX
?H:.
?T:yyy message saveccflags
?F:!try
?LINT:change ccflags
?LINT:change uselongdouble
: Check what kind of doubles your system has
$echo "Checking the kind of doubles you have..." >&4
$cat >try.c <<EOP
#$i_stdlib I_STDLIB
#define DOUBLESIZE $doublesize
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <stdio.h>
static const double d = -0.1;
int main() {
 unsigned const char* b = (unsigned const char*)(&d);
#if DOUBLESIZE == 4
 if (b[0] == 0xCD && b[3] == 0xBD) {
   /* IEEE 754 32-bit little-endian */
   printf("1\n");
   exit(0);
 }
 if (b[0] == 0xBD && b[3] == 0xCD) {
   /* IEEE 754 32-bit big-endian */
   printf("2\n");
   exit(0);
 }
 if (b[0] == 0xCC && b[3] == 0xCC) {
```

```
  /* VAX format F, 32-bit
 PDP-style mixed endian. */
  printf("9\n");
  exit(0);
 }
 if (b[0] == 0xC0 && b[3] == 0x9A) {
  /* IBM single 32-bit */
  printf("12\n");
  exit(0);
 }
#endif
#if DOUBLESIZE == 8
 if (b[0] == 0x9A && b[7] == 0xBF) {
  /* IEEE 754 64-bit little-endian */
  printf("3\n");
  exit(0);
 }
 if (b[0] == 0xBF && b[7] == 0x9A) {
  /* IEEE 754 64-bit big-endian */
  printf("4\n");
  exit(0);
 }
 if (b[0] == 0x99 && b[3] == 0xBF && b[4] == 0x9A && b[7] == 0x99) {
  /* ARM mixed endian: two little-endian 32-bit floats, in big endian order:
   * 4 5 6 7 0 1 2 3 (MSB = 7, LSB = 0)
   * 99 99 b9 bf 9a 99 99 99 */
  printf("7\n");
  exit(0);
 }
 if (b[0] == 0x99 && b[3] == 0x9A && b[4] == 0xBF && b[7] == 0x99) {
  /* The opposite of case 7, mixed endian: two big-endian 32-bit floats,
   * in little endian order: 3 2 1 0 7 6 5 4 (MSB = 7, LSB = 0)
   * 99 99 99 9a bf b9 99 99 */
  printf("8\n");
  exit(0);
 }
 if (b[0] == 0xCC && b[7] == 0xCC) {
  /* VAX
 format D, 64-bit PDP-style mixed endian. */
  printf("10\n");
  exit(0);
 }
 if (b[0] == 0xD9 && b[7] == 0x99) {
  /* VAX format G, 64-bit PDP-style mixed endian. */
  printf("11\n");
  exit(0);
 }
 if (b[0] == 0xC0 && b[7] == 0x9A) {
```

```
   /* IBM double 64-bit */
   printf("13\n");
   exit(0);
 }
 if (b[0] == 0xBF && b[7] == 0xCD) {
   /* CRAY single 64-bit */
   printf("14\n");
   exit(0);
 }
#endif
#if DOUBLESIZE == 16
 if (b[0] == 0x9A && b[15] == 0xBF) {
   /* IEEE 754 128-bit little-endian */
   printf("5\n");
   exit(0);
 }
 if (b[0] == 0xBF && b[15] == 0x9A) {
   /* IEEE 754 128-bit big-endian */
   printf("6\n");
   exit(0);
 }
#endif
 /* Then there are old mainframe/miniframe formats like IBM and CRAY.
  * Whether those environments can still build Perl is debatable. */
 printf("-1\n"); /* unknown */
 exit(0);
}
EOP
set try
if eval $compile; then
   doublekind=`$run ./try`
else
   doublekind=-1
fi
case "$doublekind" in
1) echo "You have IEEE
 754 32-bit little endian doubles." >&4 ;;
2) echo "You have IEEE 754 32-bit big endian doubles." >&4 ;;
3) echo "You have IEEE 754 64-bit little endian doubles." >&4 ;;
4) echo "You have IEEE 754 64-bit big endian doubles." >&4 ;;
5) echo "You have IEEE 754 128-bit little endian doubles." >&4 ;;
6) echo "You have IEEE 754 128-bit big endian doubles." >&4 ;;
7) echo "You have IEEE 754 64-bit mixed endian doubles (32-bit LEs in BE)." >&4 ;;
8) echo "You have IEEE 754 64-bit mixed endian doubles (32-bit BEs in LE)." >&4 ;;
9) echo "You have VAX format F 32-bit PDP-style mixed endian doubles." >&4 ;;
10) echo "You have VAX format D 64-bit PDP-style mixed endian doubles." >&4 ;;
11) echo "You have VAX format G 64-bit PDP-style mixed endian doubles." >&4 ;;
12) echo "You have IBM short 32-bit doubles." >&4 ;;
```

```
13) echo "You have IBM long 64-bit doubles." >&4 ;;
14) echo "You have Cray single 64-bit doubles." >&4 ;;
*) echo "Cannot figure out your double.  You Cyber, or something?" >&4 ;;
esac
d_double_style_ieee=$undef
d_double_style_vax=$undef
d_double_style_ibm=$undef
d_double_style_cray=$undef
case
 "$doublekind" in
1|2|3|4|5|6|7|8) d_double_style_ieee=$define ;;
9|10|11) d_double_style_vax=$define ;;
12|13) d_double_style_ibm=$define ;;
14) d_double_style_cray=$define ;;
esac
case "$d_double_style_ieee" in
$define)
   d_double_has_inf=$define
   d_double_has_nan=$define
   d_double_has_negative_zero=$define
   d_double_has_subnormals=$define
   ;;
*)
   d_double_has_inf=$undef
   d_double_has_nan=$undef
   d_double_has_negative_zero=$undef
   d_double_has_subnormals=$undef
   ;;
esac
$rm_try

: Check print/scan long double stuff
echo " "

if $test X"$d_longdbl" = X"$define"; then

echo "Checking how to print long doubles..." >&4

if $test X"$sPRIfldbl" = X -a X"$doublesize" = X"$longdblsize"; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
 double d = 123.456;
 printf("%.3f\n", d);
}
EOCP
 set try
```

```
 if eval $compile; then
  yyy=`$run
 ./try`
  case "$yyy" in
  123.456)
   sPRIfldbl='"f"'; sPRIgldbl='"g"'; sPRIeldbl='"e"';
   sPRIFUldbl='"F"'; sPRIGUldbl='"G"'; sPRIEUldbl='"E"';
   echo "We will use %f."
   ;;
  esac
 fi
fi

if $test X"$sPRIfldbl" = X; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
 long double d = 123.456;
 printf("%.3Lf\n", d);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  123.456)
   sPRIfldbl='"Lf"'; sPRIgldbl='"Lg"'; sPRIeldbl='"Le"';
   sPRIFUldbl='"LF"'; sPRIGUldbl='"LG"'; sPRIEUldbl='"LE"';
   echo "We will use %Lf."
   ;;
  esac
 fi
fi

if $test X"$sPRIfldbl" = X; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
 long double d = 123.456;
 printf("%.3llf\n", d);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
```

```
  123.456)
   sPRIfldbl='"llf"'; sPRIgldbl='"llg"'; sPRIeldbl='"lle"';
   sPRIFUldbl='"llF"'; sPRIGUldbl='"llG"'; sPRIEUldbl='"llE"';
   echo "We
 will use %llf."
   ;;
  esac
 fi
fi

if $test X"$sPRIfldbl" = X; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
 long double d = 123.456;
 printf("%.3lf\n", d);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  123.456)
   sPRIfldbl='"lf"'; sPRIgldbl='"lg"'; sPRIeldbl='"le"';
   sPRIFUldbl='"lF"'; sPRIGUldbl='"lG"'; sPRIEUldbl='"lE"';
   echo "We will use %lf."
   ;;
  esac
 fi
fi

if $test X"$sPRIfldbl" = X; then
 echo "Cannot figure out how to print long doubles." >&4
else
 sSCNfldbl=$sPRIfldbl # expect consistency
fi

$rm_try

fi # d_longdbl

case "$sPRIfldbl" in
") d_PRIfldbl="$undef"; d_PRIgldbl="$undef"; d_PRIeldbl="$undef";
 d_PRIFUldbl="$undef"; d_PRIGUldbl="$undef"; d_PRIEUldbl="$undef";
 d_SCNfldbl="$undef";
 ;;
*) d_PRIfldbl="$define"; d_PRIgldbl="$define"; d_PRIeldbl="$define";
```

```
 d_PRIFUldbl="$define"; d_PRIGUldbl="$define"; d_PRIEUldbl="$define";
 d_SCNfldbl="$define";
 ;;
esac

: Before committing on uselongdouble,
 see whether that looks sane.
if $test "$uselongdouble" = "$define"; then
   message=""
   echo " "
   echo "Checking if your long double math functions work right..." >&4
   $cat > try.c <<EOF
#include <math.h>
#include <stdio.h>
int main() {
 printf("%"$sPRIgldbl"\n", sqrtl(logl(expl(cosl(sinl(0.0L))))+powl(2.0L, 3.0L)));
}
EOF
   case "$osname:$gccversion" in
   aix:) saveccflags="$ccflags"
  ccflags="$ccflags -qlongdouble" ;; # to avoid core dump
   esac
   set try
   if eval $compile_ok; then
     yyy=`$run ./try`
   fi
   case "$yyy" in
   3) echo "Your long double math functions are working correctly." >&4 ;;
   *) echo "Your long double math functions are broken, not using long doubles." >&4
      uselongdouble=$undef
      ;;
   esac
   $rm_try
   case "$osname:$gccversion" in
   aix:) ccflags="$saveccflags" ;; # restore
   esac
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/longdblfio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: ccflags.U,v $
?RCS: Revision 3.0.1.9  1997/02/28  15:27:07  ram
?RCS: patch61: removed support for NO_PROTOTYPE detection on SCO
?RCS: patch61: new locincpth variable
?RCS: patch61: added info on the "additional ld flags" question
?RCS:
?RCS: Revision 3.0.1.8  1995/07/25  13:48:54  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.7  1995/05/12  12:08:33  ram
?RCS: patch54: now checks for cc/ccflags/ldflags coherency
?RCS:
?RCS: Revision 3.0.1.6
  1994/10/29  16:07:02  ram
?RCS: patch36: gcc versioning no longer relies on the C compiler's name
?RCS: patch36: simplified check for gcc version checking (ADO)
?RCS:
?RCS: Revision 3.0.1.5  1994/08/29  16:06:35  ram
?RCS: patch32: propagate -posix flag from ccflags to ldflags
?RCS:
?RCS: Revision 3.0.1.4  1994/05/06  14:28:45  ram
?RCS: patch23: -fpcc-struct-return only needed in gcc 1.x (ADO)
?RCS: patch23: cppflags now computed on an option-by-option basis
?RCS: patch23: magically added cc flags now only done the first time
?RCS:
?RCS: Revision 3.0.1.3  1993/09/13  15:58:29  ram
?RCS: patch10: explicitly mention -DDEBUG just in case they need it (WAD)
?RCS: patch10: removed all the "tans" variable usage (WAD)
?RCS:
?RCS: Revision 3.0.1.2  1993/08/27  14:39:38  ram
?RCS: patch7: added support for OSF/1 machines
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:00:24  ram
?RCS: patch6: added defaults for cppflags, ccflags and ldflags
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:31  ram
?RCS:
 Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:ccflags ldflags lkflags cppflags optimize locincpth: test cat \
 Myread Guess Options Oldconfig gccversion mips_type +usrinc \
 package contains rm rm_try +cc cppstdin cppminus cpprun cpplast libpth \
 loclibpth hint
```

```
?MAKE: -pick add $@ %<
?S:ccflags:
?S: This variable contains any additional C compiler flags desired by
?S: the user.  It is up to the Makefile to use this.
?S:.
?S:cppflags:
?S: This variable holds the flags that will be passed to the C pre-
?S: processor. It is up to the Makefile to use it.
?S:.
?S:optimize:
?S: This variable contains any optimizer/debugger flag that should be used.
?S: It is up to the Makefile to use it.
?S:.
?S:ldflags:
?S: This variable contains any additional C loader flags desired by
?S: the user.  It is up to the Makefile to use this.
?S:.
?S:lkflags:
?S: This variable contains any additional C partial linker flags desired by
?S: the user.  It is up to the Makefile to use this.
?S:.
?S:locincpth:
?S: This
 variable contains a list of additional directories to be
?S: searched by the compiler.  The appropriate -I directives will
?S: be added to ccflags.  This is intended to simplify setting
?S: local directories from the Configure command line.
?S: It's not much, but it parallels the loclibpth stuff in libpth.U.
?S:.
?T:inctest thisincl xxx flag inclwanted ftry previous thislibdir
?F:!cpp.c
?D:cppflags=''
?D:ccflags=''
?D:ldflags=''
?D:optimize=''
?INIT:: Possible local include directories to search.
?INIT:: Set locincpth to "" in a hint file to defeat local include searches.
?INIT:locincpth="/usr/local/include /opt/local/include /usr/gnu/include"
?INIT:locincpth="$locincpth /opt/gnu/include /usr/GNU/include /opt/GNU/include"
?INIT::
?INIT:: no include file wanted by default
?INIT:inclwanted=''
?INIT:
: determine optimize, if desired, or use for debug flag also
case "$optimize" in
' '|$undef) dflt='none';;
')
 case "$gccversion" in
```

```
 ") dflt='-O';;
 *) dflt='-O2 -g';;
 esac
 ;;
*)
 dflt="$optimize";;
esac
case "$gccversion" in
") $cat <<EOH

Some C compilers have problems with their optimizers.  By default, $package
compiles with the -O flag to use the optimizer.  Alternately, you might want
to use the symbolic debugger, which uses the -g flag (on traditional Unix
systems).  Either flag can be specified here.  To use neither flag, specify
the word "none".

EOH
 ;;
*) $cat <<EOH

With the GNU C compiler, it is possible to supply both -O2 and -g flags, to
be able to reasonably optimize, whilst retaining the ability to use a
symbolic debugger.  Either flag can be specified here.  To use neither flag,
specify the word "none".

EOH
 ;;
esac
rp="What optimizer/debugger flag should be used?"
. ./myread
optimize="$ans"
case "$optimize" in
'none') optimize=" ";;
esac

dflt="
: We will not override a previous value, but we might want to
: augment a hint file
case "$hint" in
default|recommended)
 case "$gccversion" in
 1*) dflt='-fpcc-struct-return' ;;
 esac
?X:
 check for POSIXized ISC
 case "$gccversion" in
 2*) if test -d /etc/conf/kconfig.d &&
   $contains _POSIX_VERSION $usrinc/sys/unistd.h >/dev/null 2>&1
```

```
  then
   dflt="$dflt -posix"
  fi
  ;;
 esac
?X: turn warnings on if they're using gcc
 case "$gccversion" in
 1*|2*) dflt="$dflt -Wall";;
?X: starting with version 3, add "-W -Wall -Wformat=2 -Wshadow" by default
 *) dflt="$dflt -W -Wall -Wformat=2 -Wshadow";;
 esac
 ;;
esac

?X: In USG mode, a MIPS system may need some BSD includes
case "$mips_type" in
*BSD*|") inclwanted="$locincpth $usrinc";;
*) inclwanted="$locincpth $inclwanted $usrinc/bsd";;
esac
for thisincl in $inclwanted; do
 if $test -d $thisincl; then
  if $test x$thisincl != x$usrinc; then
   case "$dflt" in
   *$thisincl*);;
   *) dflt="$dflt -I$thisincl";;
   esac
  fi
 fi
done

?X: Include test function (header, symbol)
inctest='if $contains $2 $usrinc/$1 >/dev/null 2>&1; then
 xxx=true;
elif $contains $2 $usrinc/sys/$1 >/dev/null 2>&1; then
 xxx=true;
else
 xxx=false;
fi;
if
 $xxx; then
 case "$dflt" in
 *$2*);;
 *) dflt="$dflt -D$2";;
 esac;
fi'

?X:
?X: OSF/1 uses __LANGUAGE_C__ instead of LANGUAGE_C
```

```
?X:
if ./osf1; then
 set signal.h __LANGUAGE_C__; eval $inctest
else
 set signal.h LANGUAGE_C; eval $inctest
fi

case "$hint" in
default|recommended) dflt="$ccflags $dflt" ;;
*) dflt="$ccflags";;
esac

case "$dflt" in
"|' ') dflt=none;;
esac
$cat <<EOH

Your C compiler may want other flags.  For this question you should include
-I/whatever and -DWHATEVER flags and any other flags used by the C compiler,
but you should NOT include libraries or ld flags like -lwhatever.

To use no flags, specify the word "none".

EOH
?X: strip leading space
set X $dflt
shift
dflt=${1+"$@"}
rp="Any additional cc flags?"
. ./myread
case "$ans" in
none) ccflags="";;
*) ccflags="$ans";;
esac

: the following weeds options from ccflags that are of no interest to cpp
cppflags="$ccflags"
case "$gccversion" in
1*) cppflags="$cppflags -D__GNUC__"
esac
case "$mips_type" in
");;
*BSD*)
 cppflags="$cppflags -DSYSTYPE_BSD43";;
esac
case "$cppflags" in
");;
*)
```

```
 echo " "
 echo "Let me guess what the preprocessor flags are..." >&4
 set X $cppflags
 shift
 cppflags="
 $cat >cpp.c <<'EOM'
#define BLURFL foo

BLURFL xx LFRULB
EOM
?X:
?X: For each cc flag, try it out with both cppstdin and cpprun, since the
?X: first is almost surely a cc wrapper. We have to try both in case
?X: of cc flags like '-Olimit 2900' that are actually two words...
?X:
 previous="
 for flag in $*
 do
  case "$flag" in
  -*) ftry="$flag";;
  *) ftry="$previous $flag";;
  esac
  if $cppstdin -DLFRULB=bar $ftry $cppminus <cpp.c \
   >cpp1.out 2>/dev/null && \
   $cpprun -DLFRULB=bar $ftry $cpplast <cpp.c \
   >cpp2.out 2>/dev/null && \
   $contains 'foo.*xx.*bar' cpp1.out >/dev/null 2>&1 && \
   $contains 'foo.*xx.*bar' cpp2.out >/dev/null 2>&1
  then
   cppflags="$cppflags $ftry"
   previous="
  else
   previous="$flag"
  fi
 done
 set X $cppflags
 shift
 cppflags=${1+"$@"}
 case "$cppflags"
 in
 *-*)  echo "They appear to be: $cppflags";;
 esac
 $rm -f cpp.c cpp?.out
 ;;
esac

: flags used in final linking phase
case "$ldflags" in
```

```
") if ./venix; then
  dflt='-i -z'
 else
  dflt=''
 fi
 case "$ccflags" in
 *-posix*) dflt="$dflt -posix" ;;
 esac
 ;;
*) dflt="$ldflags";;
esac

: Try to guess additional flags to pick up local libraries.
for thislibdir in $libpth; do
 case " $loclibpth " in
 *" $thislibdir "*)
  case "$dflt " in
  *"-L$thislibdir "*) ;;
  *)  dflt="$dflt -L$thislibdir" ;;
  esac
  ;;
 esac
done

case "$dflt" in
") dflt='none' ;;
*) set X $dflt; shift; dflt="$@";;
esac

$cat <<EOH

Your C linker may need flags.  For this question you should
include -L/whatever and any other flags used by the C linker, but you
should NOT include libraries like -lwhatever.

Make sure you include the appropriate -L/path flags if your C linker
does not normally search all of the directories you specified above,
namely
 $libpth
To use no flags, specify the word "none".

EOH

rp="Any
 additional ld flags (NOT including libraries)?"
. ./myread
case "$ans" in
none) ldflags="";;
```

```
*) ldflags="$ans";;
esac
rmlist="$rmlist pdp11"

@if lkflags
: partial linking may need other flags
case "$lkflags" in
") case "$ldflags" in
 ") dflt='none';;
 *) dflt="$ldflags";;
 esac;;
*) dflt="$lkflags";;
esac
echo " "
rp="Partial linking flags to be used (NOT including -r)?"
. ./myread
case "$ans" in
none) lkflags=";;
*) lkflags="$ans";;
esac

@end
?X:
?X: If the user changes compilers after selecting a hint file, it's
?X: possible that the suggested ccflags/ldflags will be wrong.  Try to
?X: compile and run a simple test program.  Let the user see all the
?X: error messages. -- ADO and RAM
?X:
: coherency check
echo " "
echo "Checking your choice of C compiler and flags for coherency..." >&4
?X: Strip extra blanks in case some of the following variables are empty
set X $cc $optimize $ccflags $ldflags -o try try.c
shift
$cat >try.msg <<EOM
I've tried to compile and run a simple program
 with:

 $*
 ./try

and I got the following output:

EOM
$cat > try.c <<'EOF'
#include <stdio.h>
int main() { exit(0); }
EOF
```

```
dflt=y
?X: Use "sh -c" to avoid error messages tagged with leading "Configure:".
?X: We need to try the resulting executable, because cc might yield a 0 status
?X: even when ld failed, in which case the executable will not run properly,
?X: if its x bit is set at all...
if sh -c "$cc $optimize $ccflags $ldflags -o try try.c" >>try.msg 2>&1; then
 if sh -c './try' >>try.msg 2>&1; then
  dflt=n
 else
  echo "The program compiled OK, but exited with status $?." >>try.msg
  rp="You have a problem.  Shall I abort Configure"
  dflt=y
 fi
else
 echo "I can't compile the test program." >>try.msg
 rp="You have a BIG problem.  Shall I abort Configure"
 dflt=y
fi
case "$dflt" in
y)
 $cat try.msg >&4
?X: using -K will prevent default aborting--maybe they're cross compiling?
 case "$knowitall" in
 ")
  echo "(The supplied flags might be incorrect with this C compiler.)"
  ;;
 *)
 dflt=n;;
 esac
 echo " "
 . ./myread
 case "$ans" in
 n*|N*) ;;
 *) echo "Ok.  Stopping Configure." >&4
  exit 1
  ;;
 esac
 ;;
n) echo "OK, that should do.";;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/ccflags.U
No license file was found, but licenses were detected in source scan.

?RCS: Id

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_volatile.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:08:49  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0.1.1  1993/09/09  11:49:51  ram
?RCS: patch9: volatile definition was swapped over with undef
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_volatile: cat +cc +ccflags rm_try Setvar
?MAKE: -pick add $@ %<
?S:d_volatile:
?S: This variable conditionally defines the HASVOLATILE symbol, which
?S: indicates
 to the C program that this C compiler knows about the
?S: volatile declaration.
?S:.
?C:HASVOLATILE ~ %<:
?C: This symbol, if defined, indicates that this C compiler knows about
?C: the volatile declaration.
?C:.
?H:?%<:#$d_volatile HASVOLATILE /**/
?H:?%<:#ifndef HASVOLATILE
?H:?%<:#define volatile
?H:?%<:#endif
?H:.
?W:%<:volatile
?LINT:set d_volatile
?LINT:known volatile
: check for volatile keyword
echo " "
echo 'Checking to see if your C compiler knows about "volatile"...' >&4
$cat >try.c <<'EOCP'
int main()
{
?X:
?X: The following seven lines added by Bill Campbell <billc@sierra.com>
?X: detect that MIPS compilers do not handle volatile in all situations.
```

```
?X:
 typedef struct _goo_struct goo_struct;
 goo_struct * volatile goo = ((goo_struct *)0);
 struct _goo_struct {
  long long_int;
  int reg_int;
  char char_var;
 };
 typedef unsigned short foo_t;
 char *volatile foo;
 volatile int bar;
 volatile foo_t blech;
 foo = foo;
}
EOCP
if $cc -c $ccflags try.c >/dev/null
 2>&1 ; then
 val="$define"
 echo "Yup, it does."
else
 val="$undef"
 echo "Nope, it doesn't."
fi
set d_volatile
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_volatile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_cmsghdr_s: Hasstruct i_systypes d_socket i_sysuio Setvar
?MAKE: -pick add $@ %<
?S:d_cmsghdr_s:
?S: This variable conditionally defines the HAS_STRUCT_CMSGHDR symbol,
?S: which indicates that the struct cmsghdr is supported.
?S:.
?C:HAS_STRUCT_CMSGHDR:
?C: This symbol, if defined, indicates that the struct cmsghdr
?C: is supported.
```

```
?C:.
?H:#$d_cmsghdr_s HAS_STRUCT_CMSGHDR /**/
?H:.
?LINT:set d_cmsghdr_s
: Check for cmsghdr support
echo " "
echo "Checking to see if your system supports struct cmsghdr..." >&4
set d_cmsghdr_s cmsghdr $i_systypes sys/types.h $d_socket sys/socket.h $i_sysuio sys/uio.h
eval $hasstruct
case "$d_cmsghdr_s" in
"$define")      echo "Yes, it does."   ;;
*)              echo
 "No, it doesn't." ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_cmsghdr_s.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_getespwnam: Inlibc
?MAKE: -pick add $@ %<
?S:d_getespwnam:
?S: This variable conditionally defines HAS_GETESPWNAM if getespwnam() is
?S: available to retrieve enhanced (shadow) password entries by name.
?S:.
?C:HAS_GETESPWNAM:
?C: This symbol, if defined, indicates that the getespwnam system call is
?C: available to retrieve enhanced (shadow) password entries by name.
?C:.
?H:#$d_getespwnam HAS_GETESPWNAM  /**/
?H:.
?LINT:set d_getespwnam
: see if getespwnam exists
set getespwnam d_getespwnam
eval $inlibc
```

Found in

path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_getespwnam.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpgrp2.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getpgrp2.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getpgrp2: Inlibc
?MAKE: -pick add $@ %<
?S:d_getpgrp2:
?S: This variable conditionally defines the HAS_GETPGRP2 symbol, which
?S: indicates to the C program that the getpgrp2() (as in DG/UX) routine
?S: is available to get the current process group.
?S:.
?C:HAS_GETPGRP2 (GETPGRP2):
?C: This symbol, if defined, indicates that the
 getpgrp2() (as in DG/UX)
?C: routine is available to get the current process group.
?C:.
?H:#$d_getpgrp2 HAS_GETPGRP2  /**/
?H:.
?LINT:set d_getpgrp2
: see if getpgrp2 exists
set getpgrp2 d_getpgrp2
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getpgrp2.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sig_name.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sig_name.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  16:21:25  ram
?RCS: patch61: brand new algorithm for sig_name and (new!) sig_num
?RCS:
?RCS: Revision 3.0.1.4  1995/07/25  14:14:54  ram
?RCS: patch56: added <asm/signal.h> lookup for Linux
?RCS:
?RCS: Revision 3.0.1.3  1995/05/12  12:24:11  ram
?RCS: patch54: now looks for <linux/signal.h> too (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20  07:06:57  ram
?RCS: patch30: final echo was missing to close
 awk-printed string
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:17:55  ram
?RCS: patch23: signal list now formatted to avoid scroll-ups (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:sig_name sig_name_init sig_num sig_num_init sig_count sig_size: \
 awk Signal Oldconfig rm
?MAKE: -pick add $@ %<
?S:sig_name:
?S: This variable holds the signal names, space separated. The leading
?S: SIG in signal name is removed.  A ZERO is prepended to the list.
?S: This is currently not used, sig_name_init is used instead.
?S:.
?S:sig_name_init:
?S: This variable holds the signal names, enclosed in double quotes and
?S: separated by commas, suitable for use in the SIG_NAME definition
?S: below.  A "ZERO" is prepended to the list, and the list is
?S: terminated with a plain 0.  The leading SIG in signal names
?S: is removed. See sig_num.
?S:.
?S:sig_num:
?S: This variable holds the signal numbers, space separated. A ZERO is
?S: prepended
 to the list (corresponding to the fake SIGZERO).
?S: Those numbers correspond to  the value of the signal listed
?S: in the same place within the sig_name list.
?S: This is currently not used, sig_num_init is used instead.
?S:.
```

```
?S:sig_num_init:
?S: This variable holds the signal numbers, enclosed in double quotes and
?S: separated by commas, suitable for use in the SIG_NUM definition
?S: below.  A "ZERO" is prepended to the list, and the list is
?S: terminated with a plain 0.
?S:.
?S:sig_count (sig_name.U):
?S: This variable holds a number larger than the largest valid
?S: signal number.  This is usually the same as the NSIG macro.
?S:.
?S:sig_size:
?S: This variable contains the number of elements of the sig_name
?S: and sig_num arrays.
?S:.
?C:SIG_NAME:
?C: This symbol contains a list of signal names in order of
?C: signal number. This is intended
?C: to be used as a static array initialization, like this:
?C:  char *sig_name[] = { SIG_NAME };
?C: The signals in the list are separated
 with commas, and each signal
?C: is surrounded by double quotes. There is no leading SIG in the signal
?C: name, i.e. SIGQUIT is known as "QUIT".
?C: Gaps in the signal numbers (up to NSIG) are filled in with NUMnn,
?C: etc., where nn is the actual signal number (e.g. NUM37).
?C: The signal number for sig_name[i] is stored in sig_num[i].
?C: The last element is 0 to terminate the list with a NULL.  This
?C: corresponds to the 0 at the end of the sig_name_init list.
?C: Note that this variable is initialized from the sig_name_init,
?C: not from sig_name (which is unused).
?C:.
?C:SIG_NUM:
?C: This symbol contains a list of signal numbers, in the same order as the
?C: SIG_NAME list. It is suitable for static array initialization, as in:
?C:  int sig_num[] = { SIG_NUM };
?C: The signals in the list are separated with commas, and the indices
?C: within that list and the SIG_NAME list match, so it's easy to compute
?C: the signal name from a number or vice versa at the price of a small
?C: dynamic
 linear lookup.
?C: Duplicates are allowed, but are moved to the end of the list.
?C: The signal number corresponding to sig_name[i] is sig_number[i].
?C: if (i < NSIG) then sig_number[i] == i.
?C: The last element is 0, corresponding to the 0 at the end of
?C: the sig_name_init list.
?C: Note that this variable is initialized from the sig_num_init,
?C: not from sig_num (which is unused).
?C:.
```

```
?C:SIG_COUNT:
?C: This variable contains a number larger than the largest
?C: signal number.  This is usually the same as the NSIG macro.
?C:.
?C:SIG_SIZE:
?C: This variable contains the number of elements of the SIG_NAME
?C: and SIG_NUM arrays, excluding the final NULL entry.
?C:.
?H:#define SIG_NAME $sig_name_init  /**/
?H:#define SIG_NUM  $sig_num_init  /**/
?H:#define SIG_COUNT $sig_count   /**/
?H:#define SIG_SIZE $sig_size   /**/
?H:.
?T:i doinit
?F:!= !signal_cmd
?X: signal.cmd creates a file  signal.lst which has two columns:
?X: NAME  number, e.g.
?X:  HUP 1
?X: The list is
 sorted on signal number, with duplicates moved to
?X: the end..
: generate list of signal names
case "$sig_num_init" in
")
echo " "
case "$sig_name_init" in
") doinit=yes ;;
*)  case "$sig_num_init" in
   "|*,*) doinit=yes ;;
   esac ;;
esac
case "$doinit" in
yes)
 echo "Generating a list of signal names and numbers..." >&4
 . ./signal_cmd
 sig_count=`$awk '/^NSIG/ { printf "%d", $2 }' signal.lst`
 sig_name=`$awk 'BEGIN { printf "ZERO " }
   !/^NSIG/ { printf "%s ", $1 }' signal.lst`
 sig_num=`$awk  'BEGIN { printf "0 " }
   !/^NSIG/ { printf "%d ", $2 }' signal.lst`
 sig_name_init=`$awk 'BEGIN { printf "\"ZERO\", " }
        !/^NSIG/ { printf "\"%s\", ", $1 }
        END { printf "0\n" }' signal.lst`
 sig_num_init=`$awk  'BEGIN { printf "0, " }
        !/^NSIG/ { printf "%d, ", $2}
        END { printf "0\n"}' signal.lst`
 ;;
esac
```

```
echo "The following $sig_count signals are available:"
echo " "
echo $sig_name | $awk \
'BEGIN { linelen = 0 }
{
 for (i = 1; i <= NF; i++) {
  name
 = "SIG" $i " "
  linelen = linelen + length(name)
  if (linelen > 70) {
   printf "\n"
   linelen = length(name)
  }
  printf "%s", name
 }
 printf "\n"
}'
sig_size=`echo $sig_name | awk '{print NF}'`
$rm -f signal signal.c signal.awk signal.lst signal_cmd
;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/sig_name.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Nothing.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Nothing.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this file is to supply an empty target for the private
?X: Makefile built by metaconfig to order the units.
?X:
?MAKE:Nothing: Head
```

Found in path(s):

* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Nothing.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endhostent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_endhostent_r endhostent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_endhostent_r:
?S: This variable conditionally defines the HAS_ENDHOSTENT_R symbol,
?S: which indicates to the C program that the endhostent_r()
?S: routine is available.
?S:.
?S:endhostent_r_proto:
?S: This variable encodes the prototype of endhostent_r.
?S: It is zero if d_endhostent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endhostent_r
?S: is defined.
?S:.
?C:HAS_ENDHOSTENT_R:
?C: This symbol, if defined, indicates that the endhostent_r routine
?C: is
 available to endhostent re-entrantly.
?C:.
?C:ENDHOSTENT_R_PROTO:
?C: This symbol encodes the prototype of endhostent_r.
?C: It is zero if d_endhostent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endhostent_r
?C: is defined.
?C:.
?H:#$d_endhostent_r HAS_ENDHOSTENT_R /**/
?H:#define ENDHOSTENT_R_PROTO $endhostent_r_proto /**/
?H:.
?T:try hdrs d_endhostent_r_proto
: see if endhostent_r exists
set endhostent_r d_endhostent_r
eval $inlibc
case "$d_endhostent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_endhostent_r_proto:$usethreads" in
```

```
":define") d_endhostent_r_proto=define
 set d_endhostent_r_proto endhostent_r $hdrs
 eval $hasproto ;;
*) ;;
esac
case "$d_endhostent_r_proto" in
define)
case "$endhostent_r_proto" in
"|0) try='int endhostent_r(struct hostent_data*);'
./protochk "$extern_C $try" $hdrs && endhostent_r_proto=I_D ;;
esac
case "$endhostent_r_proto" in
"|0) try='void endhostent_r(struct
hostent_data*);'
./protochk "$extern_C $try" $hdrs && endhostent_r_proto=V_D ;;
esac
case "$endhostent_r_proto" in
"|0) d_endhostent_r=undef
 endhostent_r_proto=0
 echo "Disabling endhostent_r, cannot determine prototype." >&4 ;;
* ) case "$endhostent_r_proto" in
 REENTRANT_PROTO*) ;;
 *) endhostent_r_proto="REENTRANT_PROTO_$endhostent_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "endhostent_r has no prototype, not using it." >&4 ;;
 esac
 d_endhostent_r=undef
 endhostent_r_proto=0
 ;;
esac
;;
*) endhostent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_endhostent_r.U
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:
?RCS: Copyright (c) 2017, 2019, Karl Williamson
?RCS:

```
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_wctype: Inhdr
?MAKE: -pick add $@ %<
?S:i_wctype:
?S: This variable conditionally defines the I_WCTYPE symbol,
?S: that indicates whether a C program may include <wctype.h>.
?S:.
?C:I_WCTYPE:
?C: This symbol, if defined, indicates that <wctype.h> exists.
?C:.
?H:#$i_wctype I_WCTYPE  /**/
?H:.
?LINT:set i_wctype
: see if this system has wctype.h
set wctype.h i_wctype
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_wctype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Warn.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extract.U,v $
?X:
?X: This unit produces a shell script which can be run in order to emit
?X: an important warning to the user, which will be remembered and shown
?X: at the end of the Configure run as well.
?X:
?X: A typical use would be:
?X:
?X:  ./warn <<EOM
?X:  Problem with your C compiler: can't turn debugging on.
?X:  EOM
```

```
?X:
?X: or:
?X:
?X:  ./warn "Problem with your C compiler: can't turn debugging on."
?X:
?X: Which will both display to the user:
?X:
?X:  ***
 WARNING:
?X:  *** Problem with your C compiler: can't turn debugging on.
?X:  ***
?X:
?MAKE:Warn: startsh eunicefix
?MAKE: -pick add $@ %<
?F:./warn
: script used to emit important warnings
cat >warn <<EOS
$startsh
?X: Read the whole warning message from stdin into a temporary file
?X: when no argument was supplied.
if test \$# -gt 0; then
 echo "\$@" >msg
else
 cat >msg
fi
?X: Emit the warning, prefixing all lines with '*** '
echo "*** WARNING:" >&4
sed -e 's/^/*** /' <msg >&4
echo "*** " >&4
?X: Save the warning in the logs, which will be shown again at the end
cat msg >>config.msg
echo " " >>config.msg
rm -f msg
EOS
chmod +x warn
$eunicefix warn
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Warn.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getsrvby.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
?MAKE:d_getsbyname d_getsbyport: Inlibc
?MAKE: -pick add $@ %<
?S:d_getsbyname:
?S: This variable conditionally defines the HAS_GETSERVBYNAME
?S: symbol, which indicates to the C program that the
?S: getservbyname() routine is available to look up services
?S: by their name.
?S:.
?S:d_getsbyport:
?S: This variable conditionally defines the HAS_GETSERVBYPORT
?S: symbol, which indicates to the C program that the
?S: getservbyport() routine is available to look up services
?S: by their port.
?S:.
?C:HAS_GETSERVBYNAME:
?C: This symbol, if defined, indicates that the getservbyname()
?C: routine is available to look up services by their name.
?C:.
?C:HAS_GETSERVBYPORT:
?C: This symbol, if defined,
 indicates that the getservbyport()
?C: routine is available to look up services by their port.
?C:.
?H:#$d_getsbyname HAS_GETSERVBYNAME  /**/
?H:#$d_getsbyport HAS_GETSERVBYPORT  /**/
?H:.
?LINT:set d_getsbyname d_getsbyport
: Optional checks for getsbyname and getsbyport

@if d_getsbyname || HAS_GETSERVBYNAME
: see if getservbyname exists
set getservbyname d_getsbyname
eval $inlibc
@end

@if d_getsbyport || HAS_GETSERVBYPORT
: see if getservbyport exists
set getservbyport d_getsbyport
eval $inlibc
@end
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_getsrvby.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_setreuid.U 1 2006-08-24 12:32:52Z rmanfredi $

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setreuid.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setreuid d_setresuid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setreuid:
?S: This variable conditionally defines HAS_SETREUID if setreuid() is
?S: available to change the real and effective uid of the current
?S: process.
?S:.
?S:d_setresuid:
?S: This variable conditionally defines HAS_SETREUID if setresuid() is
?S: available to change
 the real, effective and saved uid of the current
?S: process.
?S:.
?C:HAS_SETREUID (SETREUID):
?C: This symbol, if defined, indicates that the setreuid routine is
?C: available to change the real and effective uid of the current
?C: process.
?C:.
?C:HAS_SETRESUID (SETRESUID):
?C: This symbol, if defined, indicates that the setresuid routine is
?C: available to change the real, effective and saved uid of the current
?C: process.
?C:.
?H:#$d_setreuid HAS_SETREUID  /**/
?H:#$d_setresuid HAS_SETRESUID  /**/
?H:.
?LINT:set d_setreuid d_setresuid
: see if setreuid exists
set setreuid d_setreuid
eval $inlibc
set setresuid d_setresuid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/dist/U/d_setreuid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getprotobynumber_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getprotobynumber_r getprotobynumber_r_proto: Inlibc Protochk \
 Hasproto i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getprotobynumber_r:
?S: This variable conditionally defines the HAS_GETPROTOBYNUMBER_R symbol,
?S: which indicates to the C program that the getprotobynumber_r()
?S: routine is available.
?S:.
?S:getprotobynumber_r_proto:
?S: This variable encodes the prototype of getprotobynumber_r.
?S: It is zero if d_getprotobynumber_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getprotobynumber_r
?S: is defined.
?S:.
?C:HAS_GETPROTOBYNUMBER_R:
?C: This
 symbol, if defined, indicates that the getprotobynumber_r routine
?C: is available to getprotobynumber re-entrantly.
?C:.
?C:GETPROTOBYNUMBER_R_PROTO:
?C: This symbol encodes the prototype of getprotobynumber_r.
?C: It is zero if d_getprotobynumber_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getprotobynumber_r
?C: is defined.
?C:.
?H:#$d_getprotobynumber_r HAS_GETPROTOBYNUMBER_R /**/
?H:#define GETPROTOBYNUMBER_R_PROTO $getprotobynumber_r_proto /**/
?H:.
?T:try hdrs d_getprotobynumber_r_proto
: see if getprotobynumber_r exists
set getprotobynumber_r d_getprotobynumber_r
eval $inlibc
case "$d_getprotobynumber_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getprotobynumber_r_proto:$usethreads" in
 ":define") d_getprotobynumber_r_proto=define
```

```
 set d_getprotobynumber_r_proto getprotobynumber_r $hdrs
 eval $hasproto ;;
*) ;;
esac
case "$d_getprotobynumber_r_proto" in
define)
case "$getprotobynumber_r_proto"
in
"|0) try='int getprotobynumber_r(int, struct protoent*, char*, size_t, struct protoent**);'
./protochk "$extern_C $try" $hdrs && getprotobynumber_r_proto=I_ISBWR ;;
esac
case "$getprotobynumber_r_proto" in
"|0) try='struct protoent* getprotobynumber_r(int, struct protoent*, char*, int);'
./protochk "$extern_C $try" $hdrs && getprotobynumber_r_proto=S_ISBI ;;
esac
case "$getprotobynumber_r_proto" in
"|0) try='int getprotobynumber_r(int, struct protoent*, struct protoent_data*);'
./protochk "$extern_C $try" $hdrs && getprotobynumber_r_proto=I_ISD ;;
esac
case "$getprotobynumber_r_proto" in
"|0) d_getprotobynumber_r=undef
 getprotobynumber_r_proto=0
 echo "Disabling getprotobynumber_r, cannot determine prototype." >&4 ;;
* ) case "$getprotobynumber_r_proto" in
 REENTRANT_PROTO*) ;;
 *) getprotobynumber_r_proto="REENTRANT_PROTO_$getprotobynumber_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "getprotobynumber_r
has no prototype, not using it." >&4 ;;
 esac
 d_getprotobynumber_r=undef
 getprotobynumber_r_proto=0
 ;;
esac
;;
*) getprotobynumber_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getprotobynumber_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2010 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_prctl d_prctl_set_name: Inlibc cat Compile run rm_try
?MAKE: -pick add $@ %<
?S:d_prctl:
?S: This variable conditionally defines the HAS_PRCTL symbol, which
?S: indicates to the C program that the prctl() routine is available.
?S: Note that there are at least two prctl variants: Linux and Irix.
?S: While they are somewhat similar, they are incompatible.
?S:.
?S:d_prctl_set_name:
?S: This variable conditionally defines the HAS_PRCTL_SET_NAME symbol,
?S: which indicates to the C program that the prctl() routine supports
?S: the PR_SET_NAME option.
?S:.
?C:HAS_PRCTL:
?C: This symbol, if defined, indicates that the prctl routine is
?C: available to set process title.
?C: Note that there are at least two
 prctl variants: Linux and Irix.
?C: While they are somewhat similar, they are incompatible.
?C:.
?C:HAS_PRCTL_SET_NAME:
?C: This symbol, if defined, indicates that the prctl routine is
?C: available to set process title and supports PR_SET_NAME.
?C:.
?H:#$d_prctl HAS_PRCTL  /**/
?H:#$d_prctl_set_name HAS_PRCTL_SET_NAME  /**/
?H:.
?F:!try
?LINT:set d_prctl
: see if prctl exists
set prctl d_prctl
eval $inlibc

: see if prctl supports PR_SET_NAME
d_prctl_set_name=$undef
case $d_prctl in
   $define)
 $cat >try.c <<EOM
#ifdef __ANDROID__
#include <unistd.h>
#endif
```

```
#include <sys/prctl.h>

int main (int argc, char *argv[])
{
   return (prctl (PR_SET_NAME, "Test"));
   } /* main */
EOM
 set try
 if eval $compile_ok && $run ./try; then
     echo "Your prctl (PR_SET_NAME, ...) works"
     d_prctl_set_name=$define
     fi
 $rm_try
 ;;
   esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_prctl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:sysroot: Head
?MAKE: -pick add $@ %<
?S:sysroot:
?S: This variable is empty unless supplied by the Configure user.
?S: It can contain a path to an alternative root directory, under which
?S: headers and libraries for the compilation target can be found. This
?S: is generally used when cross-compiling using a gcc-like compiler.
?S:.
?LINT:extern cc
?LINT:extern cppflags
?LINT:change cppflags
?LINT:extern ccflags
?LINT:change ccflags
?LINT:extern ldflags
?LINT:change ldflags
?LINT:extern cccdlflags
?X: _sysroot is later used in ccflags, but we do not want it in config.sh
?T:var xxx path _sysroot
: Set 'sysroot' to change the logical root directory to your headers and libraries see man gcc
: This is primarily meant for cross-compile environments, and
 may fail to be useful in other cases
if test "X$sysroot" = X; then
```

```
  sysroot=""
else
  case "$cc" in
 *gcc*|*g++*)
    echo "Using $sysroot to find your headers and libraries, adding to ccflags"
    # _sysroot is used in places where we need --sysroot=foo
    # but using the rest of the flags could cause issues.
    _sysroot="--sysroot=$sysroot";
    case "$ccflags" in
  *sysroot*) ;;
  'undef'|*)
  ccflags="$ccflags $_sysroot"
    esac
    case "$ldflags" in
  *sysroot*) ;;
  'undef'|*)
  ldflags="$ldflags $_sysroot"
    esac
    case "$cppflags" in
  *sysroot*) ;;
  'undef'|*)
  cppflags="$cppflags $_sysroot"
    esac
    # lddlflags updated below in lddlflags section;
    # same with cccdlflags
    ;;
  esac

  # Adjust some defaults to also use $sysroot
  for var in xlibpth loclibpth locincpth glibpth; do
 eval xxx=\$$var
 eval $var=''
 for path in $xxx; do
    eval $var=\"\$$var $sysroot$path\"
 done
  done

fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/Sysroot.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_endgrent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_endgrent_r endgrent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_grp extern_C
?MAKE: -pick add $@ %<
?S:d_endgrent_r:
?S: This variable conditionally defines the HAS_ENDGRENT_R symbol,
?S: which indicates to the C program that the endgrent_r()
?S: routine is available.
?S:.
?S:endgrent_r_proto:
?S: This variable encodes the prototype of endgrent_r.
?S: It is zero if d_endgrent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endgrent_r
?S: is defined.
?S:.
?C:HAS_ENDGRENT_R:
?C: This symbol, if defined, indicates that the endgrent_r routine
?C: is available to
 endgrent re-entrantly.
?C:.
?C:ENDGRENT_R_PROTO:
?C: This symbol encodes the prototype of endgrent_r.
?C: It is zero if d_endgrent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endgrent_r
?C: is defined.
?C:.
?H:#$d_endgrent_r HAS_ENDGRENT_R /**/
?H:#define ENDGRENT_R_PROTO $endgrent_r_proto /**/
?H:.
?T:try hdrs d_endgrent_r_proto
: see if endgrent_r exists
set endgrent_r d_endgrent_r
eval $inlibc
case "$d_endgrent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_grp grp.h"
 case "$d_endgrent_r_proto:$usethreads" in
 ":define") d_endgrent_r_proto=define
  set d_endgrent_r_proto endgrent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_endgrent_r_proto" in
 define)
 case "$endgrent_r_proto" in
```

```
"|0) try='int endgrent_r(FILE**);'
./protochk "$extern_C $try" $hdrs && endgrent_r_proto=I_H ;;
esac
case "$endgrent_r_proto" in
"|0) try='void endgrent_r(FILE**);'
./protochk "$extern_C $try" $hdrs && endgrent_r_proto=V_H ;;
esac
case "$endgrent_r_proto"
in
"|0) d_endgrent_r=undef
 endgrent_r_proto=0
 echo "Disabling endgrent_r, cannot determine prototype." >&4 ;;
* ) case "$endgrent_r_proto" in
 REENTRANT_PROTO*) ;;
 *) endgrent_r_proto="REENTRANT_PROTO_$endgrent_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "endgrent_r has no prototype, not using it." >&4 ;;
 esac
 d_endgrent_r=undef
 endgrent_r_proto=0
 ;;
esac
;;
*) endgrent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_endgrent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: charorder.U,v 3.0.1.1 1994/10/29 16:07:08 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: charorder.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:07:08  ram
```

```
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:33  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:chorder_int chorder_short chorder_long: Myread cat Compile rm
?MAKE: -pick add $@ %<
?S:chorder_short (d_cos d_bos):
?S: Holds the value describing the byte ordering of characters in a short.
?S: On a Big-Endian machine, that
 would be "c0c1".
?S:.
?S:chorder_int (charoder):
?S: Holds the value describing the byte ordering of characters in an int.
?S: For instance, on a Big-Endian machine, this would be: "c0c1c2c3".
?S:.
?S:chorder_long (d_col d_bol):
?S: Holds the value describing the byte ordering of characters in a long.
?S: On a 64 bits Big-Endian machine, that would yield: "c0c1c2c3c4c5c6c7".
?S:.
?C:CHAR_ORDER_SHORT:
?C: Holds the byte ordering of characters in a short. It's a string
?C: value like "c0c1" on a Big-Endian machine.
?C:.
?C:CHAR_ORDER_INT:
?C: Holds the byte ordering of characters in an int. It's a string
?C: value like "c0c1c2c3" on a Big-Endian machine.
?C:.
?C:CHAR_ORDER_LONG:
?C: Holds the byte ordering of characters in a long. It's a string
?C: value like "c0c1c2c3c4c5c6c7" on a 64 bits Big-Endian machine.
?C:.
?H:#define CHAR_ORDER_SHORT "$chorder_short" /* byte order in a short */
?H:#define CHAR_ORDER_INT "$chorder_int" /* byte order in an int */
?H:#define CHAR_ORDER_LONG "$chorder_long"
 /* byte order in a long */
?H:.
?F:!byteorder
: check for character ordering
echo " "
echo "Checking out byte order..." >&4
$cat >byteorder.c <<'EOCP'
#include <stdio.h>

int main(argc, argv)
 int argc;
 char *argv[]; {
 int i;
```

```
 int max;
 union {
  short u_s;
  int u_i;
  long u_l;
  char u_c[sizeof(long)];
 } u;
 switch (argv[1][0]) {
 case 'l':
  u.u_l = 0L;
  /* HMS: ASSERT: sizeof(long) < 10. */
  for(i = 0; i < sizeof(long); ++i) {
   u.u_l *= 0x100L;
   u.u_l += (0xc0 + i);
  }
  max = sizeof(long);
  break;
 case 's':
  u.u_s = 0;
  /* HMS: ASSERT: sizeof(short) < 10. */
  for(i = 0; i < sizeof(short); ++i) {
   u.u_s *= 0x100L;
   u.u_s += (0xc0 + i);
  }
  max = sizeof(short);
  break;
 case 'i':
  u.u_i = 0;
  /* RAM: ASSERT: sizeof(int) < 10. */
  for(i = 0; i < sizeof(int); ++i) {
   u.u_l *= 0x100L;
   u.u_l += (0xc0 + i);
  }
  max = sizeof(int);
  break;
 default:
  max = 0;
  break;
 }
 for(i = 0; i < max; i++) {
  printf("%x", u.u_c[i] & 0x00FF);
 }
 printf("\n");
 exit(0);
}
EOCP
set
```

```
 byteorder
if eval $compile_ok ; then
 : null statement
@if chorder_short
   chorder_short=`./byteorder s`
@end
@if chorder_int
   chorder_int=`./byteorder i`
@end
@if chorder_long
   chorder_long=`./byteorder l`
@end
else
 $cat <<EOM
(I can't seem to get my test program to work.  Guessing 32 bits big-endian.)
EOM
   chorder_short="c0c1"
   chorder_int="c0c1c2c3"
   chorder_long="c0c1c2c3"
fi
@if chorder_short
dflt=$chorder_short
rp='What is the order of characters in a short?'
. ./myread
chorder_short="$ans"
@end
@if chorder_int
dflt=$chorder_int
rp='What is the order of characters in an int?'
. ./myread
chorder_int="$ans"
@end
@if chorder_long
dflt=$chorder_long
rp='What is the order of characters in a long?'
. ./myread
chorder_long="$ans"
@end
$rm -f byteorder* core
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/charorder.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_shadow.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
```

```
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_prot: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_prot:
?S: This variable conditionally defines the I_PROT symbol, and indicates
?S: whether a C program should include <prot.h>.
?S:.
?C:I_PROT:
?C: This symbol, if defined, indicates that <prot.h> exists and
?C: should be included.
?C:.
?H:#$i_prot I_PROT  /**/
?H:.
?LINT:set i_prot
: see if this is a prot.h system
set prot.h i_prot
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_prot.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cppstdin.U,v $
?RCS: Revision 3.0.1.4  1994/10/29  16:08:34  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.3  1994/01/24  14:05:38  ram
?RCS: patch16: comment for CPPLAST was missing
?RCS:
?RCS: Revision 3.0.1.2  1993/12/15  08:18:58  ram
?RCS: patch15: new variables cpprun and cpplast, guaranteed wrapper-free
?RCS: patch15: cppstdin now tries to use cc, even at the cost of a wrapper
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:00:53  ram
```

```
?RCS: patch6:
 remove wrapper when not actually used
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:38  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:cppstdin cppminus cpprun cpplast: contains test Myread Oldconfig Loc \
 cpp +cc rm hint osname gccversion startsh eunicefix
?MAKE: -pick add $@ %<
?S:cppstdin:
?S: This variable contains the command which will invoke the C
?S: preprocessor on standard input and put the output to stdout.
?S: It is primarily used by other Configure units that ask about
?S: preprocessor symbols.
?S:.
?S:cppminus:
?S: This variable contains the second part of the string which will invoke
?S: the C preprocessor on the standard input and produce to standard
?S: output.  This variable will have the value "-" if cppstdin needs
?S: a minus to specify standard input, otherwise the value is "".
?S:.
?S:cpprun:
?S: This variable contains the command which will invoke a C preprocessor
?S: on standard input and put the output to stdout. It is guaranteed not
?S: to be a wrapper
 and may be a null string if no preprocessor can be
?S: made directly available. This preprocessor might be different from the
?S: one used by the C compiler. Don't forget to append cpplast after the
?S: preprocessor options.
?S:.
?S:cpplast:
?S: This variable has the same functionality as cppminus, only it applies to
?S: cpprun and not cppstdin.
?S:.
?C:CPPSTDIN:
?C: This symbol contains the first part of the string which will invoke
?C: the C preprocessor on the standard input and produce to standard
?C: output.  Typical value of "cc -E" or "/lib/cpp", but it can also
?C: call a wrapper. See CPPRUN.
?C:.
?C:CPPMINUS:
?C: This symbol contains the second part of the string which will invoke
?C: the C preprocessor on the standard input and produce to standard
?C: output.  This symbol will have the value "-" if CPPSTDIN needs a minus
?C: to specify standard input, otherwise the value is "".
?C:.
?C:CPPRUN:
?C: This symbol contains the string which will invoke a C preprocessor on
```

```
?C: the
 standard input and produce to standard output. It needs to end
?C: with CPPLAST, after all other preprocessor flags have been specified.
?C: The main difference with CPPSTDIN is that this program will never be a
?C: pointer to a shell wrapper, i.e. it will be empty if no preprocessor is
?C: available directly to the user. Note that it may well be different from
?C: the preprocessor used to compile the C program.
?C:.
?C:CPPLAST:
?C: This symbol is intended to be used along with CPPRUN in the same manner
?C: symbol CPPMINUS is used with CPPSTDIN. It contains either "-" or "".
?C:.
?H:#define CPPSTDIN "$cppstdin"
?H:#define CPPMINUS "$cppminus"
?H:#define CPPRUN "$cpprun"
?H:#define CPPLAST "$cpplast"
?H:.
?F:cppstdin !testcpp.out !testcpp.c
?T:wrapper x_cpp x_minus ok
: see how we invoke the C preprocessor
echo " "
echo "Now, how can we feed standard input to your C preprocessor..." >&4
cat <<'EOT' >testcpp.c
#define ABC abc
#define XYZ xyz
ABC.XYZ
EOT
cd ..
if $test ! -f cppstdin;
 then
 echo "$startsh" >cppstdin
if $test "X$osname" = "Xaix" -a "X$gccversion" = X; then
?X: AIX cc -E doesn't show the absolute headerfile
?X: locations but we'll cheat by using the -M flag.
 echo 'cat >.$$.c; rm -f .$$.u; '"$cc" ${1+"$@"} -M -c .$$.c 2>/dev/null; \
 test -s .$$.u && \
 awk '"""$2 ~ /\.h$/ { print "# 0 \""$2"\"" }"""' .$$.u; \
 rm -f .$$.o .$$.u; '"$cc" -E ${1+"$@"} .$$.c; rm .$$.c' >> cppstdin
else
 echo 'cat >.$$.c; '"$cc" -E ${1+"$@"} .$$.c; rm .$$.c' >>cppstdin
fi; else
 echo "Keeping your $hint cppstdin wrapper."
fi
chmod 755 cppstdin
$eunicefix cppstdin
wrapper=`pwd`/cppstdin
ok='false'
cd UU
```

```
?X:
?X: We'll run the cpp tests again if we don't have any valid C preprocessor
?X: yet or don't know how to proceed without a wrapper (in which case cpprun
?X: is empty and that's really annoying...)
?X:
if $test "X$cppstdin" != "X" && \
 $cppstdin $cppminus <testcpp.c >testcpp.out 2>&1 && \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1
then
 echo "You used to use
 $cppstdin $cppminus so we'll use that again."
 case "$cpprun" in
 ") echo "But let's see if we can live without a wrapper..." ;;
 *)
  if $cpprun $cpplast <testcpp.c >testcpp.out 2>&1 && \
   $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1
  then
   echo "(And we'll use $cpprun $cpplast to preprocess directly.)"
   ok='true'
  else
   echo "(However, $cpprun $cpplast does not work, let's see...)"
  fi
  ;;
 esac
else
 case "$cppstdin" in
 ") ;;
 *)
  echo "Good old $cppstdin $cppminus does not seem to be of any help..."
  ;;
 esac
fi

if $ok; then
 : nothing
elif echo 'Maybe """$cc"' -E" will work...'; \
 $cc -E <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Yup, it does."
 x_cpp="$cc -E"
 x_minus=";
elif echo 'Nope...maybe """$cc"' -E -" will work...'; \
 $cc -E - <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Yup, it does."
 x_cpp="$cc -E"
 x_minus='-';
```

```
elif echo 'Nope...maybe """$cc"'
 -P" will work...'; \
 $cc -P <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Yipee, that works!"
 x_cpp="$cc -P"
 x_minus=";
elif echo 'Nope...maybe """$cc"' -P -" will work...'; \
 $cc -P - <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "At long last!"
 x_cpp="$cc -P"
 x_minus='-';
elif echo 'No such luck, maybe "'$cpp'" will work...'; \
 $cpp <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "It works!"
 x_cpp="$cpp"
 x_minus=";
elif echo 'Nixed again...maybe "'$cpp' -" will work...'; \
 $cpp - <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Hooray, it works!  I was beginning to wonder."
 x_cpp="$cpp"
 x_minus='-';
elif echo 'Uh-uh.  Time to get fancy.  Trying a wrapper...'; \
 $wrapper <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 x_cpp="$wrapper"
 x_minus="
 echo
 "Eureka!"
else
 dflt="
 rp="No dice.  I can't find a C preprocessor.  Name one:"
 . ./myread
 x_cpp="$ans"
 x_minus="
 $x_cpp <testcpp.c >testcpp.out 2>&1
 if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
  echo "OK, that will do." >&4
 else
echo "Sorry, I can't get that to work.  Go find one and rerun Configure." >&4
  exit 1
 fi
fi

case "$ok" in
```

```
false)
 cppstdin="$x_cpp"
 cppminus="$x_minus"
 cpprun="$x_cpp"
 cpplast="$x_minus"
?X:
?X: If /lib/cpp is used, try using a wrapper to increase our chances to have
?X: the C compiler and our $cppstdin agree on the same symbols... However,
?X: since cpprun is guaranteed not to be a wrapper, we must clear it if the
?X: only preprocessor we found was a wrapper, with all our luck...
?X:
 set X $x_cpp
 shift
 case "$1" in
 "$cpp")
  echo "Perhaps can we force $cc -E using a wrapper..."
  if $wrapper <testcpp.c >testcpp.out 2>&1; \
   $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1
  then
   echo "Yup, we can."
   cppstdin="$wrapper"
   cppminus=";
  else
   echo
 "Nope, we'll have to live without it..."
  fi
  ;;
 esac
 case "$cpprun" in
 "$wrapper")
  cpprun="
  cpplast="
  ;;
 esac
 ;;
esac

case "$cppstdin" in
"$wrapper"|'cppstdin') ;;
*) $rm -f $wrapper;;
esac
$rm -f testcpp.c testcpp.out
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/cppstdin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_systimes.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_systimes.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_systimes: Inhdr
?MAKE: -pick add $@ %<
?S:i_systimes:
?S: This variable conditionally defines the I_SYS_TIMES symbol, and indicates
?S: whether a C program should include <sys/times.h>.
?S:.
?C:I_SYS_TIMES (I_SYSTIMES):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/times.h>.
?C:.
?H:#$i_systimes I_SYS_TIMES  /**/
?H:.
?LINT:set
 i_systimes
: see if this is a sys/times.h system
set sys/times.h i_systimes
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_systimes.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_rmdir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_rmdir.U,v $
```

```
?RCS: Revision 3.0  1993/08/18  12:06:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_rmdir: Inlibc
?MAKE: -pick add $@ %<
?S:d_rmdir:
?S: This variable conditionally defines HAS_RMDIR if rmdir() is
?S: available to remove directories.
?S:.
?C:HAS_RMDIR (RMDIR):
?C: This symbol, if defined, indicates that the rmdir routine is
?C: available to remove directories. Otherwise you should fork off a
?C: new process to exec
 /bin/rmdir.
?C:.
?H:#$d_rmdir HAS_RMDIR  /**/
?H:.
?LINT:set d_rmdir
: see if rmdir exists
set rmdir d_rmdir
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_rmdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: man1dir.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:10:29  ram
?RCS: patch61: created
?RCS:
?X:
?X: This was originally specific to perl5.  Since perl5 has man pages that
?X: go in both man1/ and man3/ directories, we need both man1dir
?X: and man3dir.  This unit is basically dist's mansrc.U with
?X: man1 used instead of man everywhere.
?X:
```

```
?MAKE:man1dir man1direxp man1ext installman1dir: afs cat nroff Loc Oldconfig \
 spackage test Getfile Prefixit prefixexp
 Prefixup sysman Myread
?MAKE: -pick add $@ %<
?Y:TOP
?S:man1dir:
?S: This variable contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?S:man1direxp:
?S: This variable is the same as the man1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?S:installman1dir:
?S: This variable is really the same as man1direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man1direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:man1ext:
?S: This variable contains the extension that the manual page should
?S: have: one of 'n', 'l', or '1'.  The Makefile must supply the '.'.
?S: See man1dir.
?S:.
?T:lookpath
: determine
 where manual pages go
set man1dir man1dir none
eval $prefixit
$cat <<EOM

$spackage has manual pages available in source form.
EOM
case "$nroff" in
nroff)
 echo "However, you don't have nroff, so they're probably useless to you."
 case "$man1dir" in
 ") man1dir="none";;
 esac;;
esac
echo "If you don't want the manual sources installed, answer 'none'."
case "$man1dir" in
' ') dflt=none
 ;;
")
 lookpath="$prefixexp/man/man1 $prefixexp/man/l_man/man1"
```

```
 lookpath="$lookpath $prefixexp/man/p_man/man1"
 lookpath="$lookpath $prefixexp/man/u_man/man1"
 lookpath="$lookpath $prefixexp/man/man.1"
?X: Experience has shown people expect man1dir to be under prefix,
?X: so we now always put it there.  Users who want other behavior
?X: can answer interactively or use a command line option.
?X: Does user have System V-style man paths.
 case "$sysman" in
 */?_man*) dflt=`./loc . $prefixexp/l_man/man1 $lookpath` ;;
 *) dflt=`./loc . $prefixexp/man/man1 $lookpath` ;;
 esac
 set dflt
 eval $prefixup
 ;;
*)
  dflt="$man1dir"
 ;;
esac
echo " "
fn=dn+~
rp="Where do the main $spackage manual pages (source) go?"
. ./getfile
if $test "X$man1direxp" != "X$ansexp"; then
 installman1dir=''
fi
man1dir="$ans"
man1direxp="$ansexp"
case "$man1dir" in
'') man1dir=' '
 installman1dir='';;
esac
if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
manual pages reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installman1dir" in
 '') dflt=`echo $man1direxp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installman1dir";;
 esac
 fn=de~
 rp='Where will man pages be installed?'
 . ./getfile
 installman1dir="$ans"
else
```

```
 installman1dir="$man1direxp"
fi

: What suffix to use on installed man pages

case "$man1dir" in
' ')
 man1ext='0'
 ;;
*)
 rp="What suffix should be used for the main $spackage man pages?"
 case "$man1ext" in
 ") case "$man1dir" in
  *1)  dflt=1 ;;
  *1p)
 dflt=1p ;;
  *1pm) dflt=1pm ;;
  *l) dflt=l;;
  *n) dflt=n;;
  *o) dflt=o;;
  *p) dflt=p;;
  *C) dflt=C;;
  *L) dflt=L;;
  *L1) dflt=L1;;
  *) dflt=1;;
  esac
  ;;
 *) dflt="$man1ext";;
 esac
 . ./myread
 man1ext="$ans"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/man1dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2008 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:sGMTIME_max sGMTIME_min sLOCALTIME_max sLOCALTIME_min: cat rm_try \
 Setvar Compile run
```

```
?MAKE: -pick add $@ %<
?S:sGMTIME_max:
?S: This variable defines the maximum value of the time_t offset that
?S: the system function gmtime () accepts
?S:.
?S:sGMTIME_min:
?S: This variable defines the minimum value of the time_t offset that
?S: the system function gmtime () accepts
?S:.
?S:sLOCALTIME_max:
?S: This variable defines the maximum value of the time_t offset that
?S: the system function localtime () accepts
?S:.
?S:sLOCALTIME_min:
?S: This variable defines the minimum value of the time_t offset that
?S: the system function localtime () accepts
?S:.
?C:GMTIME_MAX:
?C: This symbol contains the maximum value
 for the time_t offset that
?C: the system function gmtime () accepts, and defaults to 0
?C:.
?C:GMTIME_MIN:
?C: This symbol contains the minimum value for the time_t offset that
?C: the system function gmtime () accepts, and defaults to 0
?C:.
?C:LOCALTIME_MAX:
?C: This symbol contains the maximum value for the time_t offset that
?C: the system function localtime () accepts, and defaults to 0
?C:.
?C:LOCALTIME_MIN:
?C: This symbol contains the minimum value for the time_t offset that
?C: the system function localtime () accepts, and defaults to 0
?C:.
?H:#define GMTIME_MAX  $sGMTIME_max /**/
?H:#define GMTIME_MIN  $sGMTIME_min /**/
?H:#define LOCALTIME_MAX $sLOCALTIME_max /**/
?H:#define LOCALTIME_MIN $sLOCALTIME_min /**/
?H:.
?D:sGMTIME_max=0
?D:sGMTIME_min=0
?D:sLOCALTIME_max=0
?D:sLOCALTIME_min=0
?F:!try
: Check the max offset that gmtime and localtime accept
echo "Checking max offsets that gmtime () accepts"

case "$sGMTIME_min/$sGMTIME_max" in
```

```
   0/0|/)
 $cat >try.c <<EOCP
#include
 <sys/types.h>
#include <stdio.h>
#include <time.h>

int i;
struct tm *tmp;
time_t pt;

void gm_check (time_t t, int min_year, int max_year)
{
   tmp = gmtime (&t);
   if ( tmp == NULL ||
 /* Check tm_year overflow */
  tmp->tm_year < min_year || tmp->tm_year > max_year)
 tmp = NULL;
   else
 pt = t;
   } /* gm_check */

int check_max ()
{
   tmp = NULL;
   pt  = 0;
#ifdef MAXLONG
   gm_check (MAXLONG, 69, 0x7fffffff);
#endif
   if (tmp == NULL || tmp->tm_year < 0) {
 for (i = 63; i >= 0; i--) {
     time_t x = pt | ((time_t)1 << i);
     if (x < 0 || x < pt) continue;
     gm_check (x, 69, 0x7fffffff);
     }
 }
   printf ("sGMTIME_max=%ld\n", pt);
   return (0);
   } /* check_max */

int check_min ()
{
   tmp = NULL;
   pt  = 0;
#ifdef MINLONG
   gm_check (MINLONG, -1900, 70);
#endif
   if (tmp == NULL) {
```

```
 for (i = 36; i >= 0; i--) {
     time_t x = pt - ((time_t)1 << i);
     if (x > 0) continue;
     gm_check (x, -1900, 70);
     }
 }
   printf ("sGMTIME_min=%ld\n",
 pt);
   return (0);
   } /* check_min */

int main (int argc, char *argv[])
{
   /* fprintf (stderr, "Sizeof time_t = %ld\n", sizeof (time_t)); */
   check_max ();
   check_min ();
   return (0);
   } /* main */
EOCP
 set try
 if eval $compile; then
     eval `$run ./try 2>/dev/null`
 else
     echo "Cannot determine sGMTIME_max and sGMTIME_min." >&4
     fi
 $rm_try
 ;;
   esac

echo "Checking max offsets that localtime () accepts"

case "$sLOCALTIME_min/$sLOCALTIME_max" in
   0/0|/)
 $cat >try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#include <time.h>

int i;
struct tm *tmp;
time_t pt;

void local_check (time_t t, int min_year, int max_year)
{
   if (sizeof (time_t) > 4 && t > 0x7fffffffffff000LL)
 tmp = NULL;
   else
 tmp = localtime (&t);
```

```
  if ( tmp == NULL ||
 /* Check tm_year overflow */
  tmp->tm_year < min_year || tmp->tm_year > max_year)
 tmp = NULL;
  else
 pt = t;
  } /* local_check */

int check_max ()
{
  tmp = NULL;
  pt  = 0;
#ifdef
 MAXLONG
  local_check (MAXLONG, 69, 0x7fffffff);
#endif
  if (tmp == NULL || tmp->tm_year < 0) {
 for (i = 63; i >= 0; i--) {
    time_t x = pt | ((time_t)1 << i);
    if (x < 0 || x < pt) continue;
    local_check (x, 69, 0x7fffffff);
    }
 }
  printf ("sLOCALTIME_max=%ld\n", pt);
  return (0);
  } /* check_max */

int check_min ()
{
  tmp = NULL;
  pt  = 0;
#ifdef MINLONG
  local_check (MINLONG, -1900, 70);
#endif
  if (tmp == NULL) {
 for (i = 36; i >= 0; i--) {
    time_t x = pt - ((time_t)1 << i);
    if (x > 0) continue;
    local_check (x, -1900, 70);
    }
 }
  printf ("sLOCALTIME_min=%ld\n", pt);
  return (0);
  } /* check_min */

int main (int argc, char *argv[])
{
  check_max ();
```

```
  check_min ();
  return (0);
  } /* main */
EOCP
 set try
 if eval $compile; then
    eval `$run ./try 2>/dev/null`
 else
    echo "Cannot determine sLOCALTIME_max and sLOCALTIME_min." >&4
    fi
 $rm_try
 ;;
  esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/time_size.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_longdbl.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_longdbl.U,v $
?RCS:
?MAKE:d_longdbl longdblsize d_ldexpl longdblkind \
 d_long_double_style_ieee d_long_double_style_ieee_doubledouble \
 d_long_double_style_ieee_extended d_long_double_style_ieee_std \
 d_long_double_style_vax: Compile Setvar Myread \
 Inlibc run echo cat rm_try test doublesize i_stdlib
?MAKE: -pick add $@ %<
?S:d_longdbl:
?S: This variable conditionally defines HAS_LONG_DOUBLE if
?S: the long double type is supported.
?S:.
?S:d_ldexpl:
?S: This variable conditionally defines the HAS_LDEXPL symbol, which
?S: indicates to the C program that the ldexpl() routine is available.
?S:.
?S:longdblsize:
?S: This variable contains the value of the LONG_DOUBLESIZE symbol,
 which
?S: indicates to the C program how many bytes there are in a long double,
?S: if this system supports long doubles.  Note that this is
?S: sizeof(long double), which may include unused bytes.
```

```
?S:.
?S:longdblkind:
?S: This variable, if defined, encodes the type of a long double:
?S:  0 = double,
?S:  1 = IEEE 754 128-bit little endian,
?S:  2 = IEEE 754 128-bit big endian,
?S:  3 = x86 80-bit little endian,
?S:  4 = x86 80-bit big endian,
?S:  5 = double-double 128-bit little endian,
?S:  6 = double-double 128-bit big endian,
?S:  7 = 128-bit mixed-endian double-double (64-bit LEs in BE),
?S:  8 = 128-bit mixed-endian double-double (64-bit BEs in LE),
?S:  9 = 128-bit PDP-style mixed-endian long doubles,
?S: -1 = unknown format.
?S:.
?S:d_long_double_style_ieee:
?S: This variable conditionally defines LONG_DOUBLE_STYLE_IEEE
?S: if the long double is any of the IEEE 754 style long doubles:
?S: LONG_DOUBLE_STYLE_IEEE_STD, LONG_DOUBLE_STYLE_IEEE_EXTENDED,
?S: LONG_DOUBLE_STYLE_IEEE_DOUBLEDOUBLE.
?S:.
?S:d_long_double_style_ieee_doubledouble:
?S: This
 variable conditionally defines LONG_DOUBLE_STYLE_IEEE_DOUBLEDOUBLE
?S: if the long double is the 128-bit IEEE 754 double-double.
?S:.
?S:d_long_double_style_ieee_extended:
?S: This variable conditionally defines LONG_DOUBLE_STYLE_IEEE_EXTENDED
?S: if the long double is the 80-bit IEEE 754 extended precision.
?S: Note that despite the 'extended' this is less than the 'std',
?S: since this is an extension of the double precision.
?S:.
?S:d_long_double_style_ieee_std:
?S: This variable conditionally defines LONG_DOUBLE_STYLE_IEEE_STD
?S: if the long double is the 128-bit IEEE 754.
?S:.
?S:d_long_double_style_vax:
?S: This variable conditionally defines LONG_DOUBLE_STYLE_VAX
?S: if the long double is the 128-bit VAX format H.
?S:.
?C:HAS_LONG_DOUBLE:
?C: This symbol will be defined if the C compiler supports long
?C: doubles.
?C:.
?C:LONG_DOUBLESIZE:
?C: This symbol contains the size of a long double, so that the
?C: C
```

preprocessor can make decisions based on it. It is only
?C: defined if the system supports long doubles. Note that this
?C: is sizeof(long double), which may include unused bytes.
?C:.
?C:HAS_LDEXPL:
?C: This symbol, if defined, indicates that the ldexpl routine is
?C: available to shift a long double floating-point number
?C: by an integral power of 2.
?C:.
?C:LONG_DOUBLEKIND:
?C: LONG_DOUBLEKIND will be one of
?C: LONG_DOUBLE_IS_DOUBLE
?C: LONG_DOUBLE_IS_IEEE_754_128_BIT_LITTLE_ENDIAN
?C: LONG_DOUBLE_IS_IEEE_754_128_BIT_BIG_ENDIAN
?C: LONG_DOUBLE_IS_X86_80_BIT_LITTLE_ENDIAN
?C: LONG_DOUBLE_IS_X86_80_BIT_BIG_ENDIAN
?C: LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_LE
?C: LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_BE
?C: LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_BE
?C: LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_LE
?C: LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LITTLE_ENDIAN
?C: LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BIG_ENDIAN
?C: LONG_DOUBLE_IS_VAX_H_FLOAT
?C: LONG_DOUBLE_IS_UNKNOWN_FORMAT
?C: It is only defined
if the system supports long doubles.
?C:.
?C:LONG_DOUBLE_STYLE_IEEE:
?C: This symbol, if defined, indicates that the long double
?C: is any of the IEEE 754 style long doubles:
?C: LONG_DOUBLE_STYLE_IEEE_STD, LONG_DOUBLE_STYLE_IEEE_EXTENDED,
?C: LONG_DOUBLE_STYLE_IEEE_DOUBLEDOUBLE.
?C:.
?C:LONG_DOUBLE_STYLE_IEEE_DOUBLEDOUBLE:
?C: This symbol, if defined, indicates that the long double is
?C: the 128-bit double-double.
?C:.
?C:LONG_DOUBLE_STYLE_IEEE_EXTENDED:
?C: This symbol, if defined, indicates that the long double is
?C: the 80-bit IEEE 754. Note that despite the 'extended' this
?C: is less than the 'std', since this is an extension of
?C: the double precision.
?C:.
?C:LONG_DOUBLE_STYLE_IEEE_STD:
?C: This symbol, if defined, indicates that the long double is
?C: the 128-bit IEEE 754.
?C:.
?C:LONG_DOUBLE_STYLE_VAX:

```
?C: This symbol, if defined, indicates that the long double is
?C: the 128-bit VAX format H.
?C:.
?H:#$d_ldexpl  HAS_LDEXPL  /**/
?H:#$d_longdbl HAS_LONG_DOUBLE  /**/
?H:?LONG_DOUBLESIZE:#ifdef
 HAS_LONG_DOUBLE
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLESIZE $longdblsize  /**/
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLEKIND $longdblkind  /**/
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLE    0
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_IEEE_754_128_BIT_LITTLE_ENDIAN 1
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_IEEE_754_128_BIT_BIG_ENDIAN 2
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_X86_80_BIT_LITTLE_ENDIAN  3
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_X86_80_BIT_BIG_ENDIAN  4
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_LE 5
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_BE 6
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_BE 7
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_LE 8
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_VAX_H_FLOAT   9
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_UNKNOWN_FORMAT   -1
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LITTLE_ENDIAN
LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_LE
 /* back-compat */
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BIG_ENDIAN
LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_BE /* back-compat */
?H:?LONG_DOUBLESIZE:#$d_long_double_style_ieee LONG_DOUBLE_STYLE_IEEE
?H:?LONG_DOUBLESIZE:#$d_long_double_style_ieee_doubledouble
LONG_DOUBLE_STYLE_IEEE_DOUBLEDOUBLE
?H:?LONG_DOUBLESIZE:#$d_long_double_style_ieee_extended
LONG_DOUBLE_STYLE_IEEE_EXTENDED
?H:?LONG_DOUBLESIZE:#$d_long_double_style_ieee_std LONG_DOUBLE_STYLE_IEEE_STD
?H:?LONG_DOUBLESIZE:#$d_long_double_style_vax LONG_DOUBLE_STYLE_VAX
?H:?LONG_DOUBLESIZE:#endif
?H:.
?F:!try
?LINT:known LONG_DOUBLE_IS_DOUBLE LONG_DOUBLE_IS_IEEE_754_128_BIT_LITTLE_ENDIAN
?LINT:known LONG_DOUBLE_IS_IEEE_754_128_BIT_BIG_ENDIAN
LONG_DOUBLE_IS_X86_80_BIT_LITTLE_ENDIAN
?LINT:known LONG_DOUBLE_IS_X86_80_BIT_BIG_ENDIAN
LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LITTLE_ENDIAN
?LINT:known LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BIG_ENDIAN
LONG_DOUBLE_IS_UNKNOWN_FORMAT
?LINT:known
 LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_LE
?LINT:known LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_BE
?LINT:known LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_BE
?LINT:known LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_LE
?LINT:known LONG_DOUBLE_IS_VAX_H_FLOAT
```

```
?LINT:set d_longdbl
?LINT:set d_ldexpl
: check for long doubles
echo " " >&4
echo "Checking to see if you have long double..." >&4
echo 'int main() { long double x = 7.0; }' > try.c
set try
if eval $compile; then
 val="$define"
 echo "You have long double." >&4
else
 val="$undef"
 echo "You do not have long double." >&4
fi
$rm_try
set d_longdbl
eval $setvar

: see if ldexpl exists
set ldexpl d_ldexpl
eval $inlibc

@if LONG_DOUBLESIZE || longdblsize
: check for length of long double
?X:  Check only if d_longdbl and if longdblsize is not already set.
case "${d_longdbl}${longdblsize}" in
$define)
 echo " " >&4
 echo "Checking to see how big your long doubles are..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
 printf("%d\n", sizeof(long
 double));
}
EOCP
 set try
?X: Don't use compile_ok because some compilers warn you that they have
?X: 'long double' as just 'double'.
 set try
 if eval $compile; then
  longdblsize=`$run ./try`
  echo "Your long doubles are $longdblsize bytes long." >&4
 else
  dflt='8'
  echo " " >&4
  echo "(I can't seem to compile the test program.  Guessing...)" >&4
```

```
  rp="What is the size of a long double (in bytes)?"
  . ./myread
  longdblsize="$ans"
 fi
 if $test "X$doublesize" = "X$longdblsize"; then
  echo "That isn't any different from an ordinary double." >&4
  echo "I'll keep your setting anyway, but you may see some" >&4
  echo "harmless compilation warnings." >&4
 fi
 ;;
esac
$rm_try
@end

$echo "Checking the kind of long doubles you have..." >&4
case "$d_longdbl" in
define)
$cat <<EOP >try.c
#$i_stdlib I_STDLIB
#define LONGDBLSIZE $longdblsize
#define DOUBLESIZE $doublesize
#include <float.h>
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <stdio.h>
static const long double
 d = -0.1L;
int main() {
 unsigned const char* b = (unsigned const char*)(&d);
#if DOUBLESIZE == LONGDBLSIZE
 printf("0\n"); /* if it floats like double */
 exit(0);
#endif
#if (LDBL_MANT_DIG == 113 || FLT128_MANT_DIG == 113) && LONGDBLSIZE == 16
 if (b[0] == 0x9A && b[1] == 0x99 && b[15] == 0xBF) {
   /* IEEE 754 128-bit little-endian */
   printf("1\n");
   exit(0);
 }
 if (b[0] == 0xBF && b[14] == 0x99 && b[15] == 0x9A) {
   /* IEEE 128-bit big-endian, e.g. solaris sparc */
   printf("2\n");
   exit(0);
 }
#endif
/* For alignment 32-bit platforms have the 80 bits in 12 bytes,
* while 64-bits platforms have it in 16 bytes.  The trailing bytes
```

```
* cannot be trusted. */
#if LDBL_MANT_DIG == 64 && (LONGDBLSIZE == 16 || LONGDBLSIZE == 12)
 if (b[0] == 0xCD && b[9] == 0xBF) {
   /* x86 80-bit little-endian, sizeof 12 (ILP32, Solaris x86)
    * or 16 (LP64, Linux and OS X), 4 or 6 bytes of padding.
    * Also known as "extended precision". */
   printf("3\n");
   exit(0);
  }
 if (b[0] == 0xBF && b[9] == 0xCD) {
   /* Is there ever big-endian 80-bit, really?
    *
    * The Motorola 68881 had another "extended precision" format:
    * sign:1 exp:15 zero:16 integer:1 mantissa:63
    * for total of 96 bits of bytes.  The zero bits were unused.
    * See "M68000 FAMILY PROGRAMMER'S REFERENCE MANUAL" for more details.
    * If it ever becomes relevant, this format should be allocated a
    * new doublekind code since it is quite different from the Intel x87.
    */
   printf("4\n");
   exit(0);
 }
#endif
#if (LDBL_MANT_DIG == 106 || LDBL_MANT_DIG == 107) && LONGDBLSIZE == 16
 /* software "double double", the 106 is 53+53.
  * but irix thinks it is 107. */
 if (b[0] == 0x9A && b[7] == 0x3C && b[8] == 0x9A && b[15] == 0xBF) {
   /* double double 128-bit fully little-endian,
    * little-endian doubles in little-endian order,
    * 9a 99 99 99 99 99 59 3c 9a 99 99 99 99 99 b9 bf */
   printf("5\n");
   exit(0);
 }
 if (b[0] == 0xBF && b[7]
 == 0x9A && b[8] == 0x3C && b[15] == 0x9A) {
   /* double double 128-bit fully big-endian,
    * big-endian doubles in big-endian order,
    * e.g. PPC/Power and MIPS:
    * bf b9 99 99 99 99 99 9a 3c 59 99 99 99 99 99 9a */
   printf("6\n");
   exit(0);
 }
 if (b[0] == 0x9A && b[7] == 0xBF && b[8] == 0x9A && b[15] == 0x3C) {
   /* double double 128-bit mixed endian.
    * little-endian doubles in big-endian order,
    * e.g. ppc64el,
    * 9a 99 99 99 99 99 b9 bf 9a 99 99 99 99 99 59 3c */
   printf("7\n");
```

```
  exit(0);
 }
 if (b[0] == 0x3C && b[7] == 0x9A && b[8] == 0xBF && b[15] == 0x9A) {
  /* double double 128-bit mixed endian,
   * big-endian doubles in little-endian order,
   * 3c 59 99 99 99 99 99 9a bf b9 99 99 99 99 99 9a */
  printf("8\n");
  exit(0);
 }
#endif
/* We are largely making this up because it may well be
* that the VAX format H was never made available to C,
* only to Fortran. */
#if LONGDBLSIZE == 16 && defined(__vax__)
 if (b[0]
 == 0xFD && b[15] == 0x99) {
  /* VAX format H, PDP-11 mixed endian. */
  printf("9\n");
  exit(0);
 }
#endif
 printf("-1\n"); /* unknown */
 exit(0);
}
EOP
set try
if eval $compile; then
  longdblkind=`$run ./try`
else
  longdblkind=-1
fi
;;
*) longdblkind=0 ;;
esac
case "$longdblkind" in
0) echo "Your long doubles are doubles." >&4 ;;
1) echo "You have IEEE 754 128-bit little endian long doubles." >&4 ;;
2) echo "You have IEEE 754 128-bit big endian long doubles." >&4 ;;
3) echo "You have x86 80-bit little endian long doubles." >&4 ;;
4) echo "You have x86 80-bit big endian long doubles." >&4 ;;
5) echo "You have 128-bit fully little-endian double-double long doubles (64-bit LEs in LE)." >&4 ;;
6) echo "You have 128-bit fully big-endian double-double long doubles (64-bit BEs in BE)." >&4 ;;
7) echo "You have 128-bit mixed-endian double-double long doubles (64-bit LEs in BE)." >&4 ;;
8) echo "You have 128-bit mixed-endian double-double long doubles (64-bit BEs in LE)." >&4
 ;;
9) echo "You have 128-bit PDP-style mixed-endian long doubles (VAX format H)." >&4 ;;
*) echo "Cannot figure out your long double." >&4 ;;
esac
```

```
d_long_double_style_ieee=$undef
d_long_double_style_ieee_std=$undef
d_long_double_style_ieee_extended=$undef
d_long_double_style_ieee_doubledouble=$undef
d_long_double_style_vax=$undef
case "$longdblkind" in
1|2|3|4|5|6|7|8) d_long_double_style_ieee=$define ;;
esac
case "$longdblkind" in
1|2) d_long_double_style_ieee_std=$define ;;
esac
case "$longdblkind" in
3|4) d_long_double_style_ieee_extended=$define ;;
esac
case "$longdblkind" in
5|6|7|8) d_long_double_style_ieee_doubledouble=$define ;;
esac
case "$longdblkind" in
9) d_long_double_style_vax=$define ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_longdbl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethostent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_gethostent_r gethostent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_gethostent_r:
?S: This variable conditionally defines the HAS_GETHOSTENT_R symbol,
?S: which indicates to the C program that the gethostent_r()
?S: routine is available.
?S:.
?S:gethostent_r_proto:
?S: This variable encodes the prototype of gethostent_r.
?S: It is zero if d_gethostent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gethostent_r
?S: is defined.
```

```
?S:.
?C:HAS_GETHOSTENT_R:
?C: This symbol, if defined, indicates that the gethostent_r routine
?C: is
 available to gethostent re-entrantly.
?C:.
?C:GETHOSTENT_R_PROTO:
?C: This symbol encodes the prototype of gethostent_r.
?C: It is zero if d_gethostent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gethostent_r
?C: is defined.
?C:.
?H:#$d_gethostent_r HAS_GETHOSTENT_R /**/
?H:#define GETHOSTENT_R_PROTO $gethostent_r_proto /**/
?H:.
?T:try hdrs d_gethostent_r_proto
: see if gethostent_r exists
set gethostent_r d_gethostent_r
eval $inlibc
case "$d_gethostent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_gethostent_r_proto:$usethreads" in
 ":define") d_gethostent_r_proto=define
  set d_gethostent_r_proto gethostent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_gethostent_r_proto" in
 define)
 case "$gethostent_r_proto" in
 "|0) try='int gethostent_r(struct hostent*, char*, size_t, struct hostent**, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostent_r_proto=I_SBWRE ;;
 esac
 case "$gethostent_r_proto"
 in
 "|0) try='int gethostent_r(struct hostent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostent_r_proto=I_SBIE ;;
 esac
 case "$gethostent_r_proto" in
 "|0) try='struct hostent* gethostent_r(struct hostent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostent_r_proto=S_SBIE ;;
 esac
 case "$gethostent_r_proto" in
 "|0) try='struct hostent* gethostent_r(struct hostent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && gethostent_r_proto=S_SBI ;;
 esac
 case "$gethostent_r_proto" in
```

```
"|0) try='int gethostent_r(struct hostent*, char*, int);'
./protochk "$extern_C $try" $hdrs && gethostent_r_proto=I_SBI ;;
esac
case "$gethostent_r_proto" in
"|0) try='int gethostent_r(struct hostent*, struct hostent_data*);'
./protochk "$extern_C $try" $hdrs && gethostent_r_proto=I_SD ;;
esac
case "$gethostent_r_proto" in
"|0) d_gethostent_r=undef
 gethostent_r_proto=0
 echo "Disabling gethostent_r, cannot determine prototype." >&4 ;;
* ) case
"$gethostent_r_proto" in
 REENTRANT_PROTO*) ;;
 *) gethostent_r_proto="REENTRANT_PROTO_$gethostent_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "gethostent_r has no prototype, not using it." >&4 ;;
 esac
 d_gethostent_r=undef
 gethostent_r_proto=0
 ;;
esac
;;
*) gethostent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_gethostent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Init.U,v 3.0.1.1 1994/10/31 09:45:59 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Init.U,v $
?RCS: Revision 3.0.1.1  1994/10/31  09:45:59  ram
```

```
?RCS: patch44: removed Options from MAKE to prevent Init overrides
?RCS: patch44: option processing now done after Myinit thanks to new Begin.U
?RCS: patch44: moved "Beginning of configuration questions" to Begin.U
?RCS: patch44: moved signal trapping instruction to Begin.U as well
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file
 initializes certain default variables used by Configure.  They
?X: may be overridden or added to by definitions in Myinit.U.
?X:
?MAKE:Init eunicefix: Null
?MAKE: -pick add $@ %<
?MAKE: -pick weed $@ ./Init
?S:eunicefix:
?S: When running under Eunice this variable contains a command which will
?S: convert a shell script to the proper form of text file for it to be
?S: executable by the shell.  On other systems it is a no-op.
?S:.
?V:define undef smallmach:rmlist
?X:
?X: Throughout the units, one may make use of $define and $undef to reference
?X: a defined symbol or an undefined one. There is no need to add them in
?X: the dependency line since this unit makes them visible via ?V:, and
?X: everyone inherits from those symbols since by convention Init.U is the
?X: root dependency.
?X:
?LINT:extern DJGPP
?LINT:extern _exe
?LINT:change _exe
?LINT:extern is_os2
: Detect odd OSs
define='define'
undef='undef'
smallmach='pdp11 i8086 z8000 i80286 iAPX286'
rmlist=''

: We must find out about
 Eunice early
eunicefix=':'
if test -f /etc/unixtovms; then
 eunicefix=/etc/unixtovms
fi
if test -f /etc/unixtovms.exe; then
 eunicefix=/etc/unixtovms.exe
fi
```

```
: Set executable suffix now -- needed before hints available
if test -f "/libs/version.library"; then
: Amiga OS
   _exe=""
elif test -f "/system/gnu_library/bin/ar.pm"; then
: Stratus VOS
   _exe=".pm"
elif test -n "$DJGPP"; then
: DOS DJGPP
   _exe=".exe"
elif test -f /kern/cookiejar; then
: MiNT
   _exe=""
elif test -d c:/. -o -n "$is_os2" ; then
: OS/2 or cygwin
   _exe=".exe"
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Init.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setregid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setregid.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:12  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setregid d_setresgid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setregid:
?S: This variable conditionally defines HAS_SETREGID if setregid() is
?S: available to change the real and effective gid of the current
?S: process.
?S:.
?S:d_setresgid:
?S: This variable conditionally defines HAS_SETRESGID if setresgid() is
?S: available to change
```

```
 the real, effective and saved gid of the current
?S: process.
?S:.
?C:HAS_SETREGID (SETREGID):
?C: This symbol, if defined, indicates that the setregid routine is
?C: available to change the real and effective gid of the current
?C: process.
?C:.
?C:HAS_SETRESGID (SETRESGID):
?C: This symbol, if defined, indicates that the setresgid routine is
?C: available to change the real, effective and saved gid of the current
?C: process.
?C:.
?H:#$d_setregid HAS_SETREGID  /**/
?H:#$d_setresgid HAS_SETRESGID  /**/
?H:.
?LINT: set d_setregid d_setresgid
: see if setregid exists
set setregid d_setregid
eval $inlibc
set setresgid d_setresgid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setregid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Configdir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Configdir.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  14:58:36  ram
?RCS: patch61: have README explicitly mention the package name
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:49  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:Configdir: package
?MAKE: -pick add $@ %<
: create .config dir to save info across Configure sessions
```

```
test -d ../.config || mkdir ../.config
cat >../.config/README <<EOF
This directory created by Configure to save
 information that should
persist across sessions for $package.

You may safely delete it if you wish.
EOF
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Configdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fchmod.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_fchmod.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:59  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_fchmod: Inlibc
?MAKE: -pick add $@ %<
?S:d_fchmod:
?S: This variable conditionally defines the HAS_FCHMOD symbol, which
?S: indicates to the C program that the fchmod() routine is available
?S: to change mode of opened files.
?S:.
?C:HAS_FCHMOD (FCHMOD):
?C: This symbol, if defined, indicates that the fchmod routine is available
?C: to
 change mode of opened files.  If unavailable, use chmod().
?C:.
?H:#$d_fchmod HAS_FCHMOD  /**/
?H:.
?LINT:set d_fchmod
: see if fchmod exists
set fchmod d_fchmod
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_fchmod.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sockopt.U,v $
?RCS: Revision 3.0.1.1  1995/07/25  14:16:14  ram
?RCS: patch56: obsoleted KEEPALIVE in favor of CAN_KEEPALIVE for consistency
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_keepalive: cat rm contains +cc +ccflags socketlib sockethdr \
 d_oldsock libs Oldconfig Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_keepalive:
?S: This symbol conditionally defines CAN_KEEPALIVE which indicates to the C
?S: program that setsockopt
 SO_KEEPALIVE will work properly.
?S:.
?C:CAN_KEEPALIVE (KEEPALIVE):
?C: This symbol if defined indicates to the C program that the SO_KEEPALIVE
?C: option of setsockopt() will work as advertised in the manual.
?C:.
?H:#$d_keepalive CAN_KEEPALIVE  /**/
?H:.
?F:!socket
?LINT:set d_keepalive
: see if setsockopt with SO_KEEPALIVE works as advertised
echo " "
case "$d_oldsock" in
"$undef")
 if $contains SO_KEEPALIVE `./findhdr sys/socket.h` \
  /dev/null >/dev/null 2>&1
 then
  echo "OK, let's see if SO_KEEPALIVE works as advertised..." >&4
  $cat > socket.c <<EOP
#include <sys/types.h>
#include <sys/socket.h>
```

```
#include <netinet/in.h>
#include <netdb.h>

int main()
{
 int s = socket(AF_INET, SOCK_STREAM, 0);
 if (s == -1)
  exit(1);
 if (-1 == setsockopt(s, SOL_SOCKET, SO_KEEPALIVE, 0, 0))
  exit(2);
 exit(0);
}
EOP
  if $cc $ccflags $sockethdr -o socket socket.c $libs \
   $socketlib >/dev/null 2>&1; then
   ./socket >/dev/null 2>&1
   case $? in
   0) echo "Yes, it does!"
    val="$define";;
   1)
 $cat <<EOM
(Something went wrong -- Assuming SO_KEEPALIVE is broken)
EOM
    val="$undef";;
   2) echo "No, it doesn't.  Don't trust your manuals!!"
    val="$undef";;
   esac
  else
   cat <<EOM
(I can't compile the test program -- Assuming SO_KEEPALIVE is broken)
EOM
   val="$undef"
  fi
 else
  echo "Strange!! You have BSD 4.2 sockets but no SO_KEEPALIVE option."
  val="$undef"
 fi;;
*) cat <<EOM
As you have an old socket interface, you can't have heard of SO_KEEPALIVE.
EOM
 val="$undef";;
esac
set d_keepalive
eval $setvar
$rm -f socket socket.c
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/dist/U/sockopt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Compile.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS:
?X:
?X: This unit is just a quick shorthand for the compile command
?X: to be used in all the other metaconfig units.
?X:
?MAKE:Compile: +cc +optimize +ccflags +ldflags +libs test
?MAKE: -pick wipe $@ %<
?LINT:extern usedevel maintloc
?LINT:define compile compile_ok
?V:compile compile_ok mc_file
?S:compile:
?S: This shell variable is used internally by Configure to provide
?S: a convenient shorthand for the typical compile command, namely
?S: $cc $optimize $ccflags $ldflags -o $1 $1.c $libs > /dev/null 2>&1
?S: Note that the output filename does _not_ include the _exe
?S: extension.  Instead we assume that the linker will be
?S: "helpful" and automatically appending the correct suffix.
?S: OS/2
 users will apparently need to supply the -Zexe flag to
?S: get this behavior.
?S:
?S: To use this variable, say something like:
?S:  echo 'int main() { exit(0); }' > try.c
?S:  set try
?S:  if eval $compile; then
?S:   echo "success"   # and do whatever . . .
?S:  else
?S:   echo "failure"   # and do whatever . . .
?S:  fi
?S: To add extra flags cc flags (e.g. -DWHATEVER) just put them
?S: in $*, e.g.
?S:  set try -DTRY_THIS_FLAG
?S:.
?S:compile_ok:
?S: This shell variable is used internally by Configure to provide
?S: a convenient shorthand for the typical compile command that you
?S: expect to work ok.  It is the same as $compile, except we
?S: deliberately let the user see any error messages.
```

```
?S:.
: define a shorthand compile call
compile='
mc_file=$1;
shift;
case "$usedevel" in $define|true|[yY]*) if $test ! -f "${mc_file}.c"; then
echo "Internal Configure script bug - compiler test file ${mc_file}.c is missing. Please report this to <$maintloc>"
>&4;
exit 1;
fi;
esac;
$cc
 -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs > /dev/null 2>&1;'
: define a shorthand compile call for compilations that should be ok.
compile_ok='
mc_file=$1;
shift;
$cc -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs > /dev/null 2>&1;'
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/Compile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fd_set.U,v 3.0.1.3 1997/02/28 15:33:16 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_fd_set.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:33:16  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20  06:57:23  ram
?RCS: patch30: extended scope for fd_set checks (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:06:27  ram
?RCS: patch16: comments for HAS_FD_* symbols were not consistent
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_fd_set d_fd_macros
```

```
 d_fds_bits: Compile cat rm_try Oldconfig \
 d_socket i_systime i_sysselct i_stdlib run
?MAKE: -pick add $@ %<
?S:d_fd_set:
?S: This variable contains the eventual value of the HAS_FD_SET symbol,
?S: which indicates if your C compiler knows about the fd_set typedef.
?S:.
?S:d_fd_macros:
?S: This variable contains the eventual value of the HAS_FD_MACROS symbol,
?S: which indicates if your C compiler knows about the macros which
?S: manipulate an fd_set.
?S:.
?S:d_fds_bits:
?S: This variable contains the eventual value of the HAS_FDS_BITS symbol,
?S: which indicates if your fd_set typedef contains the fds_bits member.
?S: If you have an fd_set typedef, but the dweebs who installed it did
?S: a half-fast job and neglected to provide the macros to manipulate
?S: an fd_set, HAS_FDS_BITS will let us know how to fix the gaffe.
?S:.
?C:HAS_FD_SET:
?C: This symbol, when defined, indicates presence of the fd_set typedef
?C: in <sys/types.h>
?C:.
?C:HAS_FD_MACROS:
?C: This symbol, when defined,
  indicates presence of the macros used to
?C: manipulate an fd_set.
?C:.
?C:HAS_FDS_BITS:
?C: This symbol, when defined, indicates presence of the fds_bits member in
?C: fd_set.  This knowledge is useful if fd_set is available but the macros
?C: aren't.
?C:.
?H:#$d_fd_set HAS_FD_SET /**/
?H:#$d_fd_macros HAS_FD_MACROS /**/
?H:#$d_fds_bits HAS_FDS_BITS /**/
?H:.
?F:!try
: check for fd_set items
$cat <<EOM

Checking to see how well your C compiler handles fd_set and friends ...
EOM
?X: The FD_SET macros can be in strange places.  On some SysV-based
?X: systems, they are in <sys/bsdtypes.h>, which is included (perhaps)
?X: by <sys/socket.h>.  We won't force people to include
?X: <sys/bsdtypes.h> because it might introduce other
?X: incompatibilities.
```

```
$cat >try.c <<EOCP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_systime I_SYS_TIME
#$i_sysselct I_SYS_SELECT
#$d_socket HAS_SOCKET
#include <sys/types.h>
#ifdef HAS_SOCKET
#include <sys/socket.h> /* Might include <sys/bsdtypes.h>
 */
#endif
#ifdef I_SYS_TIME
#include <sys/time.h>
#endif
#ifdef I_SYS_SELECT
#include <sys/select.h>
#endif
int main() {
 fd_set fds;

#ifdef TRYBITS
 if(fds.fds_bits);
#endif

#if defined(FD_SET) && defined(FD_CLR) && defined(FD_ISSET) && defined(FD_ZERO)
 exit(0);
#else
 exit(1);
#endif
}
EOCP
set try -DTRYBITS
if eval $compile; then
 d_fds_bits="$define"
 d_fd_set="$define"
 echo "Well, your system knows about the normal fd_set typedef..." >&4
 if $run ./try; then
  echo "and you have the normal fd_set macros (just as I'd expect)." >&4
  d_fd_macros="$define"
 else
  $cat >&4 <<'EOM'
but not the normal fd_set macros!  Gaaack!  I'll have to cover for you.
EOM
  d_fd_macros="$undef"
 fi
else
```

```
 $cat <<'EOM'
Hmm, your compiler has some difficulty with fd_set.  Checking further...
EOM
 set try
 if eval $compile; then
  d_fds_bits="$undef"
  d_fd_set="$define"
  echo "Well, your system has some sort of fd_set available..." >&4
  if $run ./try; then
   echo "and you have the normal
 fd_set macros." >&4
   d_fd_macros="$define"
  else
   $cat <<'EOM'
but not the normal fd_set macros!  Gross!  More work for me...
EOM
   d_fd_macros="$undef"
  fi
 else
 echo "Well, you got zip.  That's OK, I can roll my own fd_set stuff." >&4
  d_fd_set="$undef"
  d_fds_bits="$undef"
  d_fd_macros="$undef"
 fi
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_fd_set.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: dlsrc.U,v$
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: dlext.U,v $
?RCS:
?X:  hpux support thanks to Jeff Okamoto <okamoto@hpcc101.corp.hp.com>
?X:
?X:  To create a shared library, you must compile ALL source files in the
?X:  library with +z (or possibly +Z if the library is whopping huge),
?X:  then link the library with -b.  Example:
?X:   cc -c +z module_a.c
?X:   cc -c +z module_b.c
```

```
?X:   ld -b module_a.o module_b.o -o module.sl
?X:
?MAKE:dlext: \
 Getfile Myread cat usedl so
?MAKE: -pick add $@ %<
?Y:BOTTOM
?S:dlext:
?S: This variable contains the extension that is to be used for the
?S: dynamically loaded modules that perl generates.
?S:.
: Check what extension to use for shared libs
case "$usedl" in
$define|y|true)
 $cat <<
 EOM

On a few systems, the dynamically loaded modules that perl generates and uses
will need a different extension than shared libs. The default will probably
be appropriate.

EOM
 case "$dlext" in
 ") dflt="$so" ;;
 *) dflt="$dlext" ;;
 esac
 rp='What is the extension of dynamically loaded modules'
 . ./myread
 dlext="$ans"
 ;;
*)
 dlext="none"
 ;;
esac

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
5.36.0/U/perl/dlext.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: i_fcntl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: i_fcntl.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:18  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_fcntl: h_fcntl h_sysfile +i_sysfile Inhdr Setvar
?MAKE: -pick add $@ %<
?S:i_fcntl:
?S: This variable controls the value of I_FCNTL (which tells
?S: the C program to include <fcntl.h>).
?S:.
?C:I_FCNTL (HDR_O_STUFF FCNTL):
?C: This manifest constant tells the C program to include <fcntl.h>.
?C:.
?H:#$i_fcntl I_FCNTL /**/
?H:.
?T:val
?X:
 Make line lists +i_sysfile to ensure tests for <sys/file.h> will be
?X: conducted prior tests for <fcntl.h>, hece making sure the h_sysfile
?X: variable is correctly set when we reach that unit.
?LINT:set i_fcntl
?LINT:use i_sysfile
?LINT:change h_fcntl
: see if fcntl.h is there
val=''
set fcntl.h val
eval $inhdr

: see if we can include fcntl.h
case "$val" in
"$define")
 echo " "
 if $h_fcntl; then
  val="$define"
  echo "We'll be including <fcntl.h>." >&4
 else
  val="$undef"
  if $h_sysfile; then
 echo "We don't need to include <fcntl.h> if we include <sys/file.h>." >&4
  else
   echo "We won't be including <fcntl.h>." >&4
  fi
 fi
 ;;
*)
 h_fcntl=false
 val="$undef"
```

```
 ;;
esac
set i_fcntl
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_fcntl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_syslog.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_syslog.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:46:56  ram
?RCS: patch61: replaced .o with $_o all over the place
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:43  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_syslog: test Csym Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_syslog:
?S: This variable conditionally defines the HAS_SYSLOG symbol, which
?S: indicates to the C program that syslog() exists on this system.
?S:.
?C:HAS_SYSLOG
 (LIBSYSLOG):
?C: This symbol, if defined, indicates that the program can rely on the
?C: system providing syslog().  Otherwise, the syslog code provided by
?C: the package should be used.
?C:.
?H:#$d_syslog HAS_SYSLOG /**/
?H:.
?LINT:set d_syslog
: see if syslog is available
echo " "
if $test `./findhdr syslog.h` && \
 (set syslog val -f d_syslog; eval $csym; $val); then
 echo "syslog() found." >&4
 val="$define"
```

```
else
 echo "syslog() not found in your C library." >&4
 val="$undef"
fi
set d_syslog
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_syslog.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_wifstat.U,v 3.0.1.3 1997/02/28 15:47:43 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_wifstat.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:47:43  ram
?RCS: patch61: added a ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  14:09:10  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.1  1995/03/21  08:47:46  ram
?RCS: patch52: created
?RCS:
?MAKE:d_wifstat: Compile d_uwait Oldconfig cat rm
?MAKE: -pick add $@ %<
?S:d_wifstat:
?S: This symbol conditionally defines USE_WIFSTAT
 if the C program can
?S: safely use the WIFxxx macros with the kind of wait() parameter
?S: declared in the program (see UNION_WAIT), or if it can't. Should
?S: only matter on HP-UX, where the macros are incorrectly written and
?S: therefore cause programs using them with an 'union wait' variable
?S: to not compile properly.
?S:.
?C:USE_WIFSTAT:
?C: This symbol, if defined, indicates to the C program that the argument
?C: for the WIFxxx set of macros such as WIFSIGNALED or WIFEXITED can
?C: be of the same kind as the one used to hold the wait() status. Should
?C: only matter on HP-UX, where the macros are incorrectly written and
```

```
?C: therefore cause programs using them with an 'union wait' variable
?C: to not compile properly. See also UNION_WAIT.
?C:.
?H:#$d_wifstat USE_WIFSTAT  /**/
?H:.
?T:type
?F:!foo
: see if we can use WIFxxx macros
echo " "
case "$d_wifstat" in
"$define") echo "As before, you can safely use WIFEXITED and friends!" >&4;;
"$undef") echo "You still can't use WIFEXITED
 and friends!" >&4;;
*)
 echo "Let's see whether you can use the WIFEXITED(status) macro and its"
 case "$d_uwait" in
 "$define") type='union wait';;
 *) type='int';;
 esac
 echo "friends with status declared as '$type status'..."
 $cat >foo.c <<EOCP
#include <sys/types.h>
#include <sys/wait.h>

int main()
{
 $type status;
 int e = 0;

#ifdef WIFEXITED
 if (WIFEXITED(status))
  printf("\n");
 exit(0);
#else
 exit(2);
#endif
}
EOCP
 d_wifstat="$undef"
 set foo
 if eval $compile; then
  if ./foo >/dev/null; then
   echo "Great! Looks like we can use the WIFxxx macros." >&4
   d_wifstat="$define"
  else
   echo "You don't seem to have WIFxxx macros, but that's ok." >&4
  fi
 else
```

```
  echo "Apparently you can't use WIFxxx macros properly." >&4
 fi
 $rm -f foo.* foo core
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_wifstat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:gccversion gccosandvers gccansipedantic: cat cpp rm +cc \
 Myread Guess Options Oldconfig Loc osname osvers run
?MAKE: -pick add $@ %<
?S:gccversion:
?S: If GNU cc (gcc) is used, this variable holds '1' or '2' to
?S: indicate whether the compiler is version 1 or 2.  This is used in
?S: setting some of the default cflags.  It is set to '' if not gcc.
?S:.
?S:gccosandvers:
?S: If GNU cc (gcc) is used, this variable holds the operating system
?S: and version used to compile gcc.  It is set to '' if not gcc,
?S: or if
 nothing useful can be parsed as the os version.
?S:.
?S:gccansipedantic:
?S: If GNU cc (gcc) is used, this variable will enable (if set) the
?S: -ansi and -pedantic ccflags for building core files (through
?S: cflags script). (See Porting/pumpkin.pod for full description).
?S:.
?D:gccversion=''
?D:gccansipedantic=''
?T:c99_for
?T:flag
?T:gccshortvers
?T:incdir
?T:warn
?F:!try
```

```
?LINT:change cpp
?LINT:extern ccflags
?LINT:extern ldflags
?LINT:extern locincpth
?LINT:extern ccname
?LINT:change ccname
?LINT:change locincpth
?LINT:change ccflags
?LINT:set gccansipedantic
?X: Check if they have gcc in any guise.
: Check if we are using GNU gcc and what its version is
echo " "
echo "Checking for GNU cc in disguise and/or its version number..." >&4
$cat >try.c <<EOM
#include <stdio.h>
int main() {
#if defined(__GNUC__) && !defined(__INTEL_COMPILER)
#ifdef __VERSION__
 printf("%s\n", __VERSION__);
#else
 printf("%s\n", "1");
#endif
#endif
 return(0);
}
EOM
if $cc -o try $ccflags $ldflags try.c; then
 gccversion=`$run
 ./try`
 case "$gccversion" in
 ") echo "You are not using GNU cc." ;;
 *)  echo "You are using GNU cc $gccversion."
     ccname=gcc
     ;;
 esac
else
 echo " "
 echo "*** WHOA THERE!!! ***" >&4
 echo "    Your C compiler \"$cc\" doesn't seem to be working!" >&4
?X: using -K will prevent aborting--maybe they're cross compiling?
 case "$knowitall" in
 ")
 echo "    You'd better start hunting for one and let me know about it." >&4
  exit 1
  ;;
 esac
fi
$rm -f try try.*
```

```
case "$gccversion" in
1.*) cpp=`./loc gcc-cpp $cpp $pth` ;;
esac
case "$gccversion" in
") gccosandvers=" ;;
*) gccshortvers=`echo "$gccversion"|sed 's/ .*//'`
  gccosandvers=`$cc -v 2>&1|grep '/specs$'|sed "s!.*/[^-/]*-[^-/]*-\([^-/]*\)/$gccshortvers/specs!\1!"`
  gccshortvers="
  case "$gccosandvers" in
  $osname) gccosandvers=" ;; # linux gccs seem to have no linux osvers, grr
  $osname$osvers) ;; # looking good
  $osname*) cat <<EOM >&4

*** WHOA THERE!!! ***

   Your gcc has not been
 compiled for the exact release of
   your operating system ($gccosandvers versus $osname$osvers).

   In general it is a good idea to keep gcc synchronized with
   the operating system because otherwise serious problems
   may ensue when trying to compile software, like Perl.

   I'm trying to be optimistic here, though, and will continue.
   If later during the configuration and build icky compilation
   problems appear (headerfile conflicts being the most common
   manifestation), I suggest reinstalling the gcc to match
   your operating system release.

EOM
     ;;
  *) gccosandvers=" ;; # failed to parse, better be silent
  esac
  ;;
esac
case "$ccname" in
") ccname="$cc" ;;
esac

# gcc 3.* complain about adding -Idirectories that they already know about,
# so we will take those off from locincpth.
case "$gccversion" in
3.*)
   echo "main(){}">try.c
   for incdir in $locincpth; do
      warn=`$cc $ccflags -I$incdir -c try.c 2>&1 | \
      grep '^c[cp]p*[01]: warning:
```

```
 changing search order '`
      if test "X$warn" != X; then
    locincpth=`echo " $locincpth " | sed "s! $incdir ! !"`
      fi
   done
   $rm -f try try.*
esac

# gcc 4.9 by default does some optimizations that break perl.
# see ticket 121505.
#
# The -fwrapv disables those optimizations (and probably others,) so
# for gcc 4.9 (and later, since the optimizations probably won't go
# away), add -fwrapv unless the user requests -fno-wrapv, which
# disables -fwrapv, or if the user requests -fsanitize=undefined,
# which turns the overflows -fwrapv ignores into runtime errors.
case "$gccversion" in
4.[3-9].*|4.[1-9][0-9]*|[5-9].*|[1-9][0-9]*)
   case "$ccflags" in
   *-fno-wrapv*|*-fsanitize=undefined*|*-fwrapv*) ;;
   *) ccflags="$ccflags -fwrapv" ;;
   esac
esac

# Really old versions of gcc default to C89 and will error for this code.
# See if the compiler (gcc or otherwise) needs a flag to compile C99 code
# Initialisations in for loops seem to be the particular problem
# (Does
 this syntax conflict with something else that was valid C89?)
# We also add a declaration after a statement to detect whether the compiler
# (or the user supplied -Accflags) consider such declarations to be errors.
# This causes 'Configure with -Accflags="-Werror=declaration-after-statement"'
# to fail hard and early.
#
# Annoyingly -std=c99 will cause gcc to tell glibc not to define prototypes for
# syscall, drand48 etc when including <unistd.h>, which messes up our build.
# I guess we *could* loop round trying -std=c99 first with checks both for the
# prototype found and the code compiling (because -std=gnu99 might do other
# things we don't want, particularly on non-GCC compilers) but
# 1) We would need to check for the prototype first (without any flags)
# 2) We would still end up with most Linux systems either being -std=gnu99
#    or "" (no flag), and so both common options would not rigorously check our
#    portability to other platforms.
# So it doesn't seem worth the complexity
 and chance of different failure.
$cat >try.c <<'EOCP'
int main(int argc, char **argv) {
   argc = argc + 1;
```

```
  /* This is deliberately a declaration after a statement. */
  unsigned long long count = 0;
  for (char **p = argv; *p; ++p) {
      ++count;
  }
  return count == 1 ? 0 : argc;
}
EOCP
c99_for=no
for flag in " '-std=gnu99' '-std=c99'; do
  if $cc -o try $flag $ccflags $ldflags try.c 2>/dev/null && ./try; then
      c99_for="$flag"
      break;
  fi
done
case "$c99_for" in
") echo "Your C compiler doesn't need any special flags to compile C99 code"
  ;;
no) echo >&4 "Your C compiler doesn't seem to be able to compile C99 code"
  rp='Do you really want to continue?'
  dflt='n'
  . ./myread
  case "$ans" in
 [yY]) echo >&4 "Okay, continuing." ;;
 *) exit 1    ;;
  esac
  ;;
*)  echo "Your C compiler needs $c99_for to compile C99 code"
  ccflags="$c99_for $ccflags"
  ;;
esac
$rm -f try try.*
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/gccvers.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_srand48_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_srand48_r srand48_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_stdlib extern_C
```

```
?MAKE: -pick add $@ %<
?S:d_srand48_r:
?S: This variable conditionally defines the HAS_SRAND48_R symbol,
?S: which indicates to the C program that the srand48_r()
?S: routine is available.
?S:.
?S:srand48_r_proto:
?S: This variable encodes the prototype of srand48_r.
?S: It is zero if d_srand48_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_srand48_r
?S: is defined.
?S:.
?C:HAS_SRAND48_R:
?C: This symbol, if defined, indicates that the srand48_r routine
?C: is available to srand48 re-entrantly.
?C:.
?C:SRAND48_R_PROTO:
?C: This
 symbol encodes the prototype of srand48_r.
?C: It is zero if d_srand48_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_srand48_r
?C: is defined.
?C:.
?H:#$d_srand48_r HAS_SRAND48_R /**/
?H:#define SRAND48_R_PROTO $srand48_r_proto /**/
?H:.
?T:try hdrs d_srand48_r_proto
: see if srand48_r exists
set srand48_r d_srand48_r
eval $inlibc
case "$d_srand48_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_stdlib stdlib.h"
 case "$d_srand48_r_proto:$usethreads" in
 ":define") d_srand48_r_proto=define
  set d_srand48_r_proto srand48_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_srand48_r_proto" in
 define)
 case "$srand48_r_proto" in
 "|0) try='int srand48_r(long, struct drand48_data*);'
 ./protochk "$extern_C $try" $hdrs && srand48_r_proto=I_LS ;;
 esac
 case "$srand48_r_proto" in
 "|0) d_srand48_r=undef
  srand48_r_proto=0
```

```
  echo "Disabling srand48_r, cannot determine prototype." >&4 ;;
 * ) case
 "$srand48_r_proto" in
  REENTRANT_PROTO*) ;;
  *) srand48_r_proto="REENTRANT_PROTO_$srand48_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "srand48_r has no prototype, not using it." >&4 ;;
  esac
  d_srand48_r=undef
  srand48_r_proto=0
  ;;
 esac
 ;;
*) srand48_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_srand48_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_memrchr: Inlibc Hasproto d_gnulibc
?MAKE: -pick add $@ %<
?S:d_memrchr:
?S: This variable conditionally defines the HAS_MEMRCHR symbol, which
?S: indicates to the C program that the memrchr() routine is available
?S: to return a pointer to the last occurrence of a byte in a memory
?S: area (or NULL if not found).
?S:.
?C:HAS_MEMRCHR:
?C: This symbol, if defined, indicates that the memrchr routine is
?C: available to return a pointer to the last occurrence of a byte in
?C: a memory area (or NULL if not found).
?C:.
?H:#$d_memrchr HAS_MEMRCHR  /**/
?H:.
?T:d_memrchr_proto xx1 xx2 xx3 xx4
?LINT:set d_memrchr
: see if memrchr exists
: We need both a prototype in string.h and the symbol in libc.
```

```
echo " "
d_memrchr_proto="
xx1="#$d_gnulibc HAS_GNULIBC"
xx2='#if defined(HAS_GNULIBC)
 && !defined(_GNU_SOURCE)'
xx3='#   define _GNU_SOURCE'
xx4='#endif'
set d_memrchr_proto memrchr literal "$xx1" literal "$xx2" literal "$xx3" literal "$xx4" define string.h
eval $hasproto
case "$d_memrchr_proto" in
   define) # see if memrchr exists
 set memrchr d_memrchr
 eval $inlibc
 ;;
   *)  val=$undef
 set d_memrchr
 eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_memrchr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: inc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: inc.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:inc incexp: Loc Oldconfig Getfile usrinc
?MAKE: -pick add $@ %<
?S:inc:
?S: This variable holds the name of the directory in which the user wants
?S: to put public header files for the package in question.  It is most
?S: often a local directory such as /usr/local/include.
?S:.
?S:incexp:
?S: This is the same as the inc variable, but is filename
```

```
 expaned
?S: at configuration time for convenient use in your makefiles.
?S:.
: determine where public header files go
case "$inc" in
")
 dflt=`./loc . "." /usr/local/include /usr/include/local $usrinc`
 ;;
*)  dflt="$inc"
 ;;
esac
fn=d~
rp='Where do you want to put the public header files?'
. ./getfile
inc="$ans"
incexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/inc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: etc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: etc.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:etc etcexp: Getfile Loc Oldconfig
?MAKE: -pick add $@ %<
?S:etc:
?S: This variable holds the name of the directory in which the user wants
?S: to put "administrative" executable images for the package in question.
?S: It is most often a local directory such as /usr/local/etc. Programs
?S: relying on this variable must be prepared to deal with
 ~name
?S: substitutions.
?S:.
?S:etcexp:
?S: This is the same as the etc variable, but is filename expanded at
```

```
?S: configuration time, for convenient use in makefiles.
?S:.
: determine where administrative executables go
case "$etc" in
")
 dflt=`./loc . /local/etc /usr/local/etc /local/etc /usr/etc /etc`
 ;;
*)
 dflt="$etc"
 ;;
esac
fn=d~
rp='Where should the administrative executables go?'
. ./getfile
etc="$ans"
etcexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/etc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtouq: Inlibc cat Compile run
?MAKE: -pick add $@ %<
?S:d_strtouq:
?S: This variable conditionally defines the HAS_STRTOUQ symbol, which
?S: indicates to the C program that the strtouq() routine is available.
?S:.
?C:HAS_STRTOUQ:
?C: This symbol, if defined, indicates that the strtouq routine is
?C: available to convert strings to unsigned long longs (quads).
?C:.
?H:#$d_strtouq HAS_STRTOUQ  /**/
?H:.
?F:!try
: see if strtouq exists
set strtouq d_strtouq
eval $inlibc

case "$d_strtouq" in
"$define")
```

```
 $cat <<EOM
Checking whether your strtouq() works okay...
EOM
 $cat >try.c <<'EOCP'
#include <stdlib.h>
#include <errno.h>
#include <stdio.h>
static int bad = 0;
void check(const char *s, unsigned
 long long eull, int een) {
 unsigned long long gull;
 errno = 0;
 gull = strtouq(s, 0, 10);
 if (!((gull == eull) && (errno == een)))
  bad++;
}
int main() {
 check(" 1",                                1LL, 0);
 check(" 0",                                0LL, 0);
 check("18446744073709551615",  18446744073709551615ULL, 0);
 check("18446744073709551616",  18446744073709551615ULL, ERANGE);
#if 0 /* strtouq() for /^-/ strings is undefined. */
 check("-1",                  18446744073709551615ULL, 0);
 check("-18446744073709551614",                  2LL, 0);
 check("-18446744073709551615",                  1LL, 0);
 check("-18446744073709551616", 18446744073709551615ULL, ERANGE);
 check("-18446744073709551617", 18446744073709551615ULL, ERANGE);
#endif
 if (!bad)
  printf("ok\n");
 return 0;
}
EOCP
 set try
 if eval $compile; then
  case "`$run ./try`" in
  ok) echo "Your strtouq() seems to be working okay." ;;
  *) cat <<EOM >&4
Your strtouq() doesn't seem to be working
 okay.
EOM
     d_strtouq="$undef"
     ;;
  esac
 else
  echo "(I can't seem to compile the test program--assuming it doesn't)"
  d_strtouq="$undef"
 fi
```

```
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strtouq.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:ivdformat uvuformat uvoformat uvxformat uvXUformat \
 nvEUformat nvFUformat nvGUformat \
 nveformat nvfformat nvgformat: \
 ivsize longsize intsize shortsize \
 sPRId64 sPRIu64 sPRIo64 sPRIx64 sPRIXU64 \
 uselongdouble d_longdbl usequadmath d_PRIgldbl \
 sPRIEUldbl sPRIFUldbl sPRIGUldbl sPRIeldbl sPRIfldbl sPRIgldbl \
 test echo
?MAKE: -pick add $@ %<
?S:ivdformat:
?S: This variable contains the format string used for printing
?S: a Perl IV as a signed decimal integer.
?S:.
?S:uvuformat:
?S: This variable contains the format string used for printing
?S: a Perl UV as an unsigned decimal integer.
?S:.
?S:uvoformat:
?S: This variable contains the format string used for printing
?S: a Perl UV as an unsigned
 octal integer.
?S:.
?S:uvxformat:
?S: This variable contains the format string used for printing
?S: a Perl UV as an unsigned hexadecimal integer in lowercase abcdef.
?S:.
?S:uvXUformat:
?S: This variable contains the format string used for printing
?S: a Perl UV as an unsigned hexadecimal integer in uppercase ABCDEF.
?S:.
?S:nveformat:
?S: This variable contains the format string used for printing
?S: a Perl NV using %e-ish floating point format.
```

```
?S:.
?S:nvfformat:
?S: This variable contains the format string used for printing
?S: a Perl NV using %f-ish floating point format.
?S:.
?S:nvgformat:
?S: This variable contains the format string used for printing
?S: a Perl NV using %g-ish floating point format.
?S:.
?S:nvEUformat:
?S: This variable contains the format string used for printing
?S: a Perl NV using %E-ish floating point format.
?S:.
?S:nvFUformat:
?S: This variable contains the format string used for printing
?S: a Perl NV using %F-ish floating point format.
?S:.
?S:nvGUformat:
?S: This
 variable contains the format string used for printing
?S: a Perl NV using %G-ish floating point format.
?S:.
?C:IVdf:
?C: This symbol defines the format string used for printing a Perl IV
?C: as a signed decimal integer.
?C:.
?C:UVuf:
?C: This symbol defines the format string used for printing a Perl UV
?C: as an unsigned decimal integer.
?C:.
?C:UVof:
?C: This symbol defines the format string used for printing a Perl UV
?C: as an unsigned octal integer.
?C:.
?C:UVxf:
?C: This symbol defines the format string used for printing a Perl UV
?C: as an unsigned hexadecimal integer in lowercase abcdef.
?C:.
?C:UVXf:
?C: This symbol defines the format string used for printing a Perl UV
?C: as an unsigned hexadecimal integer in uppercase ABCDEF.
?C:.
?C:NVef:
?C: This symbol defines the format string used for printing a Perl NV
?C: using %e-ish floating point format.
?C:.
?C:NVff:
?C: This symbol defines the format string used for printing a Perl NV
```

```
?C: using %f-ish floating point
 format.
?C:.
?C:NVgf:
?C: This symbol defines the format string used for printing a Perl NV
?C: using %g-ish floating point format.
?C:.
?C:NVEf:
?C: This symbol defines the format string used for printing a Perl NV
?C: using %E-ish floating point format.
?C:.
?C:NVFf:
?C: This symbol defines the format string used for printing a Perl NV
?C: using %F-ish floating point format.
?C:.
?C:NVGf:
?C: This symbol defines the format string used for printing a Perl NV
?C: using %G-ish floating point format.
?C:.
?H:#define IVdf  $ivdformat  /**/
?H:#define UVuf  $uvuformat  /**/
?H:#define UVof  $uvoformat  /**/
?H:#define UVxf  $uvxformat  /**/
?H:#define UVXf  $uvXUformat  /**/
?H:#define NVef  $nveformat  /**/
?H:#define NVff  $nvfformat  /**/
?H:#define NVgf  $nvgformat  /**/
?H:#define NVEf  $nvEUformat  /**/
?H:#define NVFf  $nvFUformat  /**/
?H:#define NVGf  $nvGUformat  /**/
?H:.
: Check format strings for internal types
echo " "
$echo "Checking the format strings to be used for Perl's
 internal types..." >&4

if $test X"$ivsize" = X8; then
 ivdformat="$sPRId64"
 uvuformat="$sPRIu64"
 uvoformat="$sPRIo64"
 uvxformat="$sPRIx64"
 uvXUformat="$sPRIXU64"
else
 if $test X"$ivsize" = X"$longsize"; then
  ivdformat="'ld'"
  uvuformat="'lu'"
  uvoformat="'lo'"
  uvxformat="'lx'"
```

```
  uvXUformat="'lX'"
 else
  if $test X"$ivsize" = X"$intsize"; then
   ivdformat="'d'"
   uvuformat="'u'"
   uvoformat="'o'"
   uvxformat="'x'"
   uvXUformat="'X'"
  else
   : far out
   if $test X"$ivsize" = X"$shortsize"; then
    ivdformat="'hd'"
    uvuformat="'hu'"
    uvoformat="'ho'"
    uvxformat="'hx'"
    uvXUformat="'hX'"
   fi
  fi
 fi
fi

if $test X"$usequadmath" = X"$define"; then
   nveformat="'Qe'"
   nvfformat="'Qf'"
   nvgformat="'Qg'"
   nvEUformat="'QE'"
   nvFUformat="'QF'"
   nvGUformat="'QG'"
else
   if $test X"$uselongdouble" = X"$define" -a X"$d_longdbl" = X"$define" -a X"$d_PRIgldbl" = X"$define"; then
 nveformat="$sPRIeldbl"
 nvfformat="$sPRIfldbl"
 nvgformat="$sPRIgldbl"
 nvEUformat="$sPRIEUldbl"
 nvFUformat="$sPRIFUldbl"
 nvGUformat="$sPRIGUldbl"
    else
 nveformat="'e'"
 nvfformat="'f'"
 nvgformat="'g'"
 nvEUformat="'E'"
 nvFUformat="'F'"
 nvGUformat="'G'"
   fi
fi

case "$ivdformat" in
") echo "$0: Fatal: failed to find format strings, cannot continue." >&4
```

```
   exit 1
   ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/perlxvf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_eofpipe.U,v 3.0.1.1 1994/10/29 16:12:40 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_eofpipe.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:12:40  ram
?RCS: patch36: call ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_eofpipe: Compile cat rm Oldconfig Guess echo n c
?MAKE: -pick add $@ %<
?S:d_eofpipe:
?S: This variable conditionally defines the EOFPIPE symbol, which
?S: indicates to the C program that select will correctly detect
 the EOF
?S: condition when pipe is closed from the other end.
?S:.
?C:EOFPIPE:
?C: This symbol, if defined, indicates that EOF condition will be detected
?C: by the reader of the pipe when it is closed by the writing process.
?C: That is, a select() call on that file descriptor will not block when
?C: only an EOF remains (typical behavior for BSD systems).
?C:.
?H:#$d_eofpipe EOFPIPE  /**/
?H:.
?F:!mpipe
: see if pipe correctly gives the EOF condition
echo " "
case "$d_eofpipe" in
")
 echo "Let's see if your pipes return EOF to select() upon closing..." >&4
```

```
 $cat >pipe.c <<'EOP'
int main()
{
 int pd[2];
 int mask;

 pipe(pd);
 if (0 == fork()) {
  close(pd[0]);
  close(pd[1]);
  exit(0);
 }

 close(pd[1]);
 mask = 1 << pd[0];
 alarm(2);
 select(32, &mask, (int *) 0, (int *) 0, (char *) 0);
 if (0 == read(pd[0], &mask, 1))
  exit(0);

 exit(1);
}
EOP
 set pipe
 if eval $compile_ok; then
?X: Use a script to avoid the possible 'alarm call' message
  echo "./pipe || exit 1" > mpipe
  chmod
 +x mpipe
  ./mpipe >/dev/null 2>&1
  case $? in
  0) d_eofpipe="$define";;
  *) d_eofpipe="$undef";;
  esac
 else
  echo "(The test program did not compile correctly -- Guessing.)"
  if ./bsd; then
   d_eofpipe="$define"
  else
   d_eofpipe="$undef"
  fi
 fi
 case "$d_eofpipe" in
 "$define") echo "Yes, they do.";;
 *) echo "No, they don't! (sigh)";;
 esac
 ;;
*)
```

```
 $echo $n "Your pipes $c"
 case "$d_eofpipe" in
 "$define") echo "allow select() to see EOF upon closing.";;
 *) echo "won't let select() see EOF on closing.";;
 esac
 ;;
esac
$rm -f *pipe* core
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_eofpipe.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_chsize.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_chsize.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_chsize: Inlibc
?MAKE: -pick add $@ %<
?S:d_chsize:
?S: This variable conditionally defines the CHSIZE symbol, which
?S: indicates to the C program that the chsize() routine is available
?S: to truncate files.  You might need a -lx to get this routine.
?S:.
?C:HAS_CHSIZE (CHSIZE):
?C: This symbol, if defined, indicates that the chsize
 routine is available
?C: to truncate files.  You might need a -lx to get this routine.
?C:.
?H:#$d_chsize HAS_CHSIZE  /**/
?H:.
?LINT:set d_chsize
: see if chsize exists
set chsize d_chsize
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_chsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_grp.U,v 3.0 1993/08/18 12:08:20 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: GRPASSWD detection added by Andy Dougherty  July 14, 1998.
?RCS:
?RCS: $Log: i_grp.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:20  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_grp d_grpasswd: \
 contains rm cppstdin cppflags cppminus Inhdr Findhdr Setvar
?MAKE: -pick add $@ %<
?S:i_grp:
?S: This variable conditionally defines the I_GRP symbol, and indicates
?S: whether a C program should include <grp.h>.
?S:.
?S:d_grpasswd:
?S: This variable conditionally
 defines GRPASSWD, which indicates
?S: that struct group in <grp.h> contains gr_passwd.
?S:.
?C:I_GRP:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <grp.h>.
?C:.
?C:GRPASSWD:
?C: This symbol, if defined, indicates to the C program that struct group
?C: in <grp.h> contains gr_passwd.
?C:.
?H:#$i_grp I_GRP  /**/
?H:#$d_grpasswd GRPASSWD /**/
?H:.
?LINT:set i_grp d_grpasswd
?T: xxx
: see if this is an grp system
set grp.h i_grp
eval $inhdr
```

```
case "$i_grp" in
$define)
 xxx=`./findhdr grp.h`
 $cppstdin $cppflags $cppminus < $xxx >$$.h

 if $contains 'gr_passwd' $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_grpasswd
 eval $setvar

 $rm -f $$.h
 ;;
*)
 val="$undef";
 set d_grpasswd; eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_grp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2019 Karl Williamson
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_towlower: Inlibc
?MAKE: -pick add $@ %<
?S:d_towlower:
?S: This variable conditionally defines the HAS_TOWLOWER symbol, which
?S: indicates to the C program that the towlower() routine is available.
?S:.
?C:HAS_TOWLOWER:
?C: This symbol, if defined, indicates that the towlower () routine is
?C: available to do case conversion.
?C:.
?H:#$d_towlower HAS_TOWLOWER  /**/
?H:.
?LINT:set d_towlower
: see if towlower exists
```

```
set towlower d_towlower
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_towlower.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:usemorebits: Setvar
?MAKE: -pick add $@ %<
?Y:TOP
?S:usemorebits:
?S: This variable conditionally defines the USE_MORE_BITS symbol,
?S: and indicates that explicit 64-bit interfaces and long doubles
?S: should be used when available.
?S:.
?C:USE_MORE_BITS:
?C: This symbol, if defined, indicates that 64-bit interfaces and
?C: long doubles should be used when available.
?C:.
?H:?%<:#ifndef USE_MORE_BITS
?H:?%<:#$usemorebits USE_MORE_BITS  /**/
?H:?%<:#endif
?H:.
?LINT:extern use64bitint
?LINT:change use64bitint
?LINT:extern uselongdouble
?LINT:change uselongdouble
: Check if morebits is requested
case "$usemorebits" in
"$define"|true|[yY]*)
 use64bitint="$define"
 uselongdouble="$define"
 usemorebits="$define"
 ;;
*) usemorebits="$undef"
 ;;
esac
```

Found

in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/usemorebits.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_lgamma: Inlibc
?MAKE: -pick add $@ %<
?S:d_lgamma:
?S: This variable conditionally defines the HAS_LGAMMA symbol, which
?S: indicates to the C program that the lgamma() routine is available
?S: for the log gamma function.  See also d_tgamma and d_lgamma_r.
?S:.
?C:HAS_LGAMMA:
?C: This symbol, if defined, indicates that the lgamma routine is
?C: available to do the log gamma function.  See also HAS_TGAMMA and
?C: HAS_LGAMMA_R.
?C:.
?H:#$d_lgamma HAS_LGAMMA  /**/
?H:.
?LINT:set d_lgamma
: see if lgamma exists
set lgamma d_lgamma
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_lgamma.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_brokstat.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_brokstat.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:30:53  ram
?RCS: patch61: created
?RCS:
?MAKE:d_brokstat: cat contains cppstdin cppminus +cppflags rm Setvar
?MAKE: -pick add $@ %<
```

```
?S:d_brokstat:
?S: This variable conditionally defines STAT_MACROS_BROKEN if some
?S: of the S_IS*() macros from <sys/stat.h> give false positive on
?S: regular files.
?S:.
?C:STAT_MACROS_BROKEN:
?C: This symbol, if defined, indicates that the S_IS*() stat macros
?C: such
 as S_ISBLK() give false positive and are thus unusable.
?C: Your best bet is then to supply your own set.
?C:.
?H:#$d_brokstat STAT_MACROS_BROKEN  /**/
?H:.
?F:!try.c !try
?LINT:set d_brokstat
?LINT:usefile try
?X: This test inspired by autoconf -- RAM, 28/02/97
: are stat macros sane?
echo " "
echo "Checking whether your stat() macros are broken..."
$cat >try.c <<'EOC'
#include <sys/types.h>
#include <sys/stat.h>

#if defined(S_ISBLK) && defined(S_IFDIR)
#if S_ISBLK(S_IFDIR)
Broken
#endif
#endif

#if defined(S_ISBLK) && defined(S_IFCHR)
#if S_ISBLK(S_IFCHR)
Broken
#endif
#endif

#if defined(S_ISLNK) && defined(S_IFREG)
#if S_ISLNK(S_IFREG)
Broken.
#endif
#endif

#if defined(S_ISSOCK) && defined(S_IFREG)
#if S_ISSOCK(S_IFREG)
Broken.
#endif
#endif
EOC
```

```
$cppstdin $cppflags $cppminus <try.c 2>/dev/null >try
if $contains Broken try >/dev/null 2>&1; then
 echo "Alas, they are.  I'll use my own macro set then." >&4
 val="$define"
else
 echo "Nope, working just fine." >&4
 val="$undef"
fi
$rm
 -f try try.c
set d_brokstat
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_brokstat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Findhdr.U,v 3.0.1.2 1994/10/29 15:53:08 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Thomas Neumann <tom@smart.bo.open.de>
?RCS:
?RCS: $Log: Findhdr.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  15:53:08  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:03:56  ram
?RCS: patch23: cppminus must be after other cppflags, not before
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a findhdr script which
 is used to locate the header
?X: files in $usrinc or other stranger places using cpp capabilities. The
?X: script is given an include file base name, like 'stdio.h' or 'sys/file.h'
?X: and it returns the full path of the include file and a zero status or an
?X: empty string with an error status if the file could not be located.
?X:
```

```
?MAKE:Findhdr: grep test tr rm incpth awk cat startsh \
 cppstdin cppminus +cppflags osname
?MAKE: -pick add $@ %<
?LINT:extern cppfilter
?LINT:define fieldn
?S:fieldn:
?S: This variable is used internally by Configure. It contains the position
?S: of the included file name in cpp output. That is to say, when cpp
?S: pre-processes a #include <file> line, it replaces it by a # line which
?S: contains the original position in the input file and the full name of
?S: included file, between "quotes".
?S:.
?V:fieldn
?F:./findhdr !fieldn
?T:cline pos wanted name awkprg usrincdir status testaccess
: determine filename position in cpp output
echo " "
echo "Computing
 filename position in cpp output for #include directives..." >&4
case "$osname" in
amigaos) fieldn=3 ;;  # Workaround for a bug in abc (pdksh).
esac
case "$fieldn" in
")
case "$osname" in
vos) testaccess=-e ;;
*)   testaccess=-r ;;
esac
echo '#include <stdio.h>' > foo.c
$cat >fieldn <<EOF
$startsh
$cppstdin $cppflags $cppminus <foo.c 2>/dev/null | \
$grep '^[  ]*#.*stdio\.h' | \
while read cline; do
 pos=1
 set \$cline
 while $test \$# -gt 0; do
  if $test $testaccess \`echo \$1 | $tr -d '"'\`; then
   echo "\$pos"
   exit 0
  fi
  shift
  pos=\`expr \$pos + 1\`
 done
done
EOF
chmod +x fieldn
fieldn=`./fieldn`
```

```
$rm -f foo.c fieldn
;;
esac
case $fieldn in
") pos='???';;
1) pos=first;;
2) pos=second;;
3) pos=third;;
*) pos="${fieldn}th";;
esac
echo "Your cpp writes the filename in the $pos field of the line."

?X: To locate a header file, we cannot simply check for $usrinc/file.h, since
?X: some machine have the headers in weird places and our only hope is that
?X: the C pre-processor
 will know how to find those headers. Thank you NexT!
: locate header file
$cat >findhdr <<EOF
$startsh
wanted=\$1
name=''
for usrincdir in $incpth
do
 if test -f \$usrincdir/\$wanted; then
  echo "\$usrincdir/\$wanted"
  exit 0
 fi
done
awkprg='{ print \$$fieldn }'
echo "#include <\$wanted>" > foo\$\$.c
$cppstdin $cppminus $cppflags < foo\$\$.c 2>/dev/null | \
$cppfilter $grep "^[  ]*#.*\$wanted" | \
while read cline; do
 name=\`echo \$cline | $awk "\$awkprg" | $tr -d '"'\`
 case "\$name" in
 *[/\\\\]\$wanted) echo "\$name"; exit 1;;
 *[\\\\/]\$wanted) echo "\$name"; exit 1;;
 *) exit 2;;
 esac;
done;
#
# status = 0: grep returned 0 lines, case statement not executed
# status = 1: headerfile found
# status = 2: while loop executed, no headerfile found
#
status=\$?
$rm -f foo\$\$.c;
if test \$status -eq 1; then
```

```
 exit 0;
fi
exit 1
EOF
chmod +x findhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Findhdr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: rootid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: rootid.U,v $
?RCS: Revision 3.0.1.1  1995/01/30  14:45:36  ram
?RCS: patch49: now only prints a single empty line when outputting something
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:rootid: sed
?MAKE: -pick add $@ %<
?S:rootid:
?S: This variable contains the eventual value of the ROOTID symbol,
?S: which is the uid of root.
?S:.
?C:ROOTID:
?C: This symbol contains the uid of root, normally
 0.
?C:.
?H:#define ROOTID $rootid  /**/
?H:.
: determine root id
rootid=`$sed -e "/^root:/{s/^[^:]*:[^:]*:\([^:]*\).*'''$'''/\1/" -e "q" -e "}" -e "d" </etc/passwd`
case "$rootid" in
") rootid=0 ;;
*) echo " "; echo "Root uid = $rootid" >&4 ;;
esac
```

Found in path(s):

* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/rootid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_tmpnam_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_tmpnam_r tmpnam_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads extern_C
?MAKE: -pick add $@ %<
?S:d_tmpnam_r:
?S: This variable conditionally defines the HAS_TMPNAM_R symbol,
?S: which indicates to the C program that the tmpnam_r()
?S: routine is available.
?S:.
?S:tmpnam_r_proto:
?S: This variable encodes the prototype of tmpnam_r.
?S: It is zero if d_tmpnam_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_tmpnam_r
?S: is defined.
?S:.
?C:HAS_TMPNAM_R:
?C: This symbol, if defined, indicates that the tmpnam_r routine
?C: is available to tmpnam re-entrantly.
?C:.
?C:TMPNAM_R_PROTO:
?C: This
 symbol encodes the prototype of tmpnam_r.
?C: It is zero if d_tmpnam_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_tmpnam_r
?C: is defined.
?C:.
?H:#$d_tmpnam_r HAS_TMPNAM_R /**/
?H:#define TMPNAM_R_PROTO $tmpnam_r_proto /**/
?H:.
?T:try hdrs d_tmpnam_r_proto
: see if tmpnam_r exists
set tmpnam_r d_tmpnam_r
eval $inlibc
case "$d_tmpnam_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h "
 case "$d_tmpnam_r_proto:$usethreads" in
```

```
":define") d_tmpnam_r_proto=define
 set d_tmpnam_r_proto tmpnam_r $hdrs
 eval $hasproto ;;
*) ;;
esac
case "$d_tmpnam_r_proto" in
define)
case "$tmpnam_r_proto" in
"|0) try='char* tmpnam_r(char*);'
./protochk "$extern_C $try" $hdrs && tmpnam_r_proto=B_B ;;
esac
case "$tmpnam_r_proto" in
"|0) d_tmpnam_r=undef
 tmpnam_r_proto=0
 echo "Disabling tmpnam_r, cannot determine prototype." >&4 ;;
* ) case "$tmpnam_r_proto" in
 REENTRANT_PROTO*) ;;
 *) tmpnam_r_proto="REENTRANT_PROTO_$tmpnam_r_proto"
;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "tmpnam_r has no prototype, not using it." >&4 ;;
 esac
 d_tmpnam_r=undef
 tmpnam_r_proto=0
 ;;
esac
;;
*) tmpnam_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_tmpnam_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isnanl: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_isnanl:
?S: This variable conditionally defines the HAS_ISNANL symbol, which
?S: indicates to the C program that the isnanl() routine is available.
?S:.
?C:HAS_ISNANL:
?C: This symbol, if defined, indicates that the isnanl routine is
?C: available to check whether a long double is a NaN.
?C:.
?H:#$d_isnanl HAS_ISNANL  /**/
?H:.
?LINT:set d_isnanl
: see if isnanl exists
set isnanl d_isnanl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_isnanl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2008 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_timegm: Inlibc
?MAKE: -pick add $@ %<
?S:d_timegm:
?S: This variable conditionally defines the HAS_TIMEGM symbol, which
?S: indicates to the C program that the timegm () routine is available.
?S:.
?C:HAS_TIMEGM:
?C: This symbol, if defined, indicates that the timegm routine is
?C: available to do the opposite of gmtime ()
?C:.
?H:#$d_timegm HAS_TIMEGM  /**/
?H:.
?LINT:set d_timegm
: see if timegm exists
set timegm d_timegm
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_timegm.U

No license file was found, but licenses were detected in source scan.

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strctcpy.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:34  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strctcpy: cat rm_try cc Setvar
?MAKE: -pick add $@ %<
?S:d_strctcpy:
?S: This variable conditionally defines the USE_STRUCT_COPY symbol, which
?S: indicates to the C program that this C compiler knows how to copy
?S: structures.
?S:.
?C:USE_STRUCT_COPY (STRUCTCOPY):
?C: This symbol, if defined, indicates that this C compiler knows how
?C: to copy structures.  If undefined, you'll
 need to use a block copy
?C: routine of some sort instead.
?C:.
?H:#$d_strctcpy USE_STRUCT_COPY /**/
?H:.
?LINT:set d_strctcpy
: check for structure copying
echo " "
echo "Checking to see if your C compiler can copy structs..." >&4
$cat >try.c <<'EOCP'
int main()
{
 struct blurfl {
  int dyick;
 } foo, bar;

 foo = bar;
}
EOCP
if $cc -c try.c >/dev/null 2>&1 ; then
 val="$define"
 echo "Yup, it can."
```

```
else
 val="$undef"
 echo "Nope, it can't."
fi
set d_strctcpy
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strctcpy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysmode.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysmode: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysmode:
?S: This variable conditionally defines the I_SYSMODE symbol,
?S: and indicates whether a C program should include <sys/mode.h>.
?S:.
?C:I_SYSMODE:
?C: This symbol, if defined, indicates that <sys/mode.h> exists and
?C: should be included.
?C:.
?H:#$i_sysmode I_SYSMODE  /**/
?H:.
?LINT:set i_sysmode
: see if this is a sys/mode.h system
set sys/mode.h i_sysmode
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_sysmode.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_sigprocmask: Inlibc
?MAKE: -pick add $@ %<
?S:d_sigprocmask:
?S: This variable conditionally defines HAS_SIGPROCMASK
?S: if sigprocmask() is available to examine or change the signal mask
?S: of the calling process.
?S:.
?C:HAS_SIGPROCMASK:
?C: This symbol, if defined, indicates that the sigprocmask
?C: system call is available to examine or change the signal mask
?C: of the calling process.
?C:.
?H:#$d_sigprocmask HAS_SIGPROCMASK  /**/
?H:.
?LINT:set d_sigprocmask
: see if sigprocmask exists
set sigprocmask d_sigprocmask
eval
 $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_sigprocmask.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_malloc.U,v 3.5 2008/03/29 14:06:51 merijn Exp $
?RCS:
?RCS: Copyright (c) 2008, H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.5.
?RCS:
?MAKE:i_mallocmalloc: Inhdr
?MAKE: -pick add $@ %<
?S:i_mallocmalloc:
?S: This variable conditionally defines the I_MALLOCMALLOC symbol,
?S: and indicates whether a C program should include <malloc/malloc.h>.
?S:.
?C:I_MALLOCMALLOC:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <malloc/malloc.h>.
```

```
?C:.
?H:#$i_mallocmalloc I_MALLOCMALLOC  /**/
?H:.
?LINT:set i_mallocmalloc
: see if malloc/malloc.h has to be included
set malloc/malloc.h i_mallocmalloc
eval
 $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_mallocmalloc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: MailAuthor.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: MailAuthor.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  15:04:41  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.4  1994/08/29  16:05:09  ram
?RCS: patch32: avoid message sending if they said no previously
?RCS:
?RCS: Revision 3.0.1.3  1993/10/16  13:47:30  ram
?RCS: patch12: now makes sure user-specified address is in Internet format
?RCS:
?RCS: Revision
 3.0.1.2  1993/09/13  15:48:49  ram
?RCS: patch10: reverted to original intent by the Author himself
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:38:38  ram
?RCS: patch7: now prompts user for its e-mail address
?RCS: patch7: no longer silent when mail has been sent
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:06  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?RCS:
```

```
?X:
?X: This unit asks the user to please send a message to the author.
?X: To force inclusion of this unit, you must add it's name to the
?X: dependancies on the MAKE line in your private copy of End.U.
?X: This allows a smart mailagent program to automatically let users know
?X: when their package is out of date, and to allow users to be notified of
?X: any future patches.
?X:
?MAKE:MailAuthor mailpatches notifypatches usermail: test cat mailer \
 package Myread patchlevel baserev rm rsrc Oldconfig Configdir
?MAKE: -pick wipe $@ %<
?S:mailpatches:
?S: Indicates whether the user would like future patches to be mailed
?S: directly
 to them.
?S:.
?S:notifypatches:
?S: Indicates whether the user would like notification of future patches
?S: mailed to them.
?S:.
?S:usermail:
?S: This variable is used internally by Configure to keep track of the
?S: user e-mail address, where notifications or patches should be sent.
?S: A '-' value means the return address will be extracted by parsing
?S: the mail headers.
?S:.
?T:opt mailpatches notifypatches atsh status
: notify author that his package is used
if $test -f ../.config/mailauthor &&
 cmp $rsrc/patchlevel.h ../.config/mailauthor >/dev/null 2>&1
then
 status="say that you're using $package";
 case "$mailpatches" in
 true) status='have patches mailed to you as they are issued';;
 esac
 case "$notifypatches" in
 true) status='be notified when new patches are issued';;
 esac
 $cat <<EOM

You have already sent the author of $package (<MAINTLOC>) mail to
$status. If you wish, you may modify
your previous request by sending a new mail with different options.

EOM
 rp='Should
 I send a status update to <MAINTLOC>?'
 dflt=n
```

```
else
 $cat <<EOM

If you are able to send mail to the Internet, the author of $package would
really appreciate you letting me send off a quick note, just to say that you've
tried it. The author is more likely to spend time maintaining $package if it's
known that many people are using it, and you can even ask to get sent new
patches automagically this way if you wish. To protect your privacy, all I'll
say in the mail is the version of $package that you're using.

EOM
 rp='Should I send mail to <MAINTLOC>?'
 dflt=y
?X: Ensure default is 'n' if question has been asked already, in case they
?X: run Configure -d next time and answered 'n' the first time. Therefore,
?X: an empty nomail will be created later on even if no mail is sent.
 $test -f ../.config/nomail && dflt=n
fi
. ./myread
case "$ans" in
[yY]*)
 echo " "
 echo "Great! Your cooperation is really appreciated."
 $cat <<EOM

Some braindead sites do not set a proper return
 address in the From: header of
their outgoing mail, making it impossible to reply to mail they generate.
If your site is broken in this way, write to your system administrator and get
it fixed!!! In the mean time, you can manually specify the Internet e-mail
address by which the author can get back to you, should there be a need to do
so. If manually specified, it should be something like "user@domain.top".
If your mail system generates addresses correctly, specify "none".

EOM
 case "$usermail" in
 '-'|'') dflt=none;;
 *) dflt="$usermail";;
 esac
 rp='Manually specify a return address to use:'
 . ./myread
 case "$ans" in
 none|*@*.*)
  case "$ans" in
  none) usermail='-';;
  *) usermail="$ans";;
  esac
  ;;
```

```
 *)
  echo "(Address does not look like an Internet one -- ignoring it.)"
?X:
?X: If we can't trust their mailer or their return address, it's highly
?X: suggested that they only register and don't ask to get anything from
?X: the author, since it's likely to bounce in null-land --
 RAM.
?X:
  usermail='-'
  mailpatches=false
  notifypatches=false
  ;;
 esac
 echo " "
 opt=''
 rp='Would you like to have new patches automatically mailed to you?'
 case "$mailpatches" in
 true) dflt=y;;
 *) dflt=n;;
 esac
 . ./myread
 case "$ans" in
 [yY]*) opt=' mailpatches'; mailpatches=true;;
 *)
  mailpatches=false
  echo " "
  rp='Ok, would you like to simply be notified of new patches?'
  case "$notifypatches" in
  false) dflt=n;;
  *) dflt=y;;
  esac
  . ./myread
  echo " "
  case "$ans" in
  [yY]*) opt=' notifypatches'; notifypatches=true;;
  *)
   echo "Fine, I'll simply say that you've tried it then."
   notifypatches=false
   ;;
  esac
  ;;
 esac
 echo "Sending mail to <MAINTLOC>..." >&4
?X: Bizarre hack here. We can't just put @SH in the hereis lines below, because
?X: metaconfig will interpret it as a command, and there's no quoting mechanism.
?X: Do it via a variable instead.
 atsh='@SH'
 $mailer <MAINTLOC> <<EOM >/dev/null 2>&1
```

```
Subject: Command
Precedence: junk
To: <MAINTLOC>

$atsh
 package $usermail $package $baserev $patchlevel$opt
EOM
 $rm -f ../.config/mailauthor ../.config/nomail
 cp $rsrc/patchlevel.h ../.config/mailauthor
 ;;
*)
 case "$dflt" in
 "y")
  echo "Oh well, maybe next time."
  cp /dev/null ../.config/nomail
  ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/MailAuthor.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_su_chown.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_su_chown.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:40  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_su_chown: Csym Setvar
?MAKE: -pick add $@ %<
?S:d_su_chown (d_rootchown):
?S: This variable conditionally defines the SU_CHOWN symbol, which
?S: indicates to the C program that only root can chown() the owner
?S: of a file.
?S:.
?C:SU_CHOWN (ROOT_CHOWN):
?C: This symbol, if defined, indicates that the system allows only root
```

```
?C: can
 change the owner of a file with chown().
?C:.
?H:#$d_su_chown SU_CHOWN /**/
?H:.
?LINT:set d_su_chown
: see if 'chown()' is restricted.
: but not too hard, as it is late and I am tired. -- HMS
echo " "
if set setreuid val -f d_su_chown; eval $csym; $val; then
 echo 'It looks like only root can chown() the owner of a file.' >&4
 val="$define"
else
 echo 'It looks like root or the owner can chown() a file away.' >&4
 val="$undef"
fi
set d_su_chown
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_su_chown.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isfinite: Inlibc cat Compile rm_try Setvar
?MAKE: -pick add $@ %<
?S:d_isfinite:
?S: This variable conditionally defines the HAS_ISFINITE symbol, which
?S: indicates to the C program that the isfinite() routine is available.
?S:.
?C:HAS_ISFINITE:
?C: This symbol, if defined, indicates that the isfinite routine is
?C: available to check whether a double is finite (non-infinity non-NaN).
?C:.
?LINT:set d_isfinite
?H:#$d_isfinite HAS_ISFINITE  /**/
?H:.
: check for isfinite
echo "Checking to see if you have isfinite..." >&4
$cat >try.c <<EOCP
#include <math.h>
```

```
int main() { return isfinite(0.0); }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have isfinite."
else
 val="$undef"
 echo
 "You do not have isfinite."
fi
$rm_try
set d_isfinite
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_isfinite.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Prefixit.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Prefixit.U,v $
?RCS: Revision 3.0.1.1  1995/01/30  14:29:22  ram
?RCS: patch49: created
?RCS:
?X:
?X: Used as: "set dflt var dir; eval $prefixit" to set $dflt to be
?X: $prefix/dir by default, or the previous $var depending on certain
?X: conditions:
?X: - If the $oldprefix variable is empty, then $prefix holds the same
?X:   value as on previous runs. Therefore, reuse $var if set, otherwise
?X:   set $dflt to $prefix/dir.
?X: - If $oldprefix is not
 empty, then set $dflt to $prefix/dir if $var
?X:   is empty (first run). Otherwise, if $var is $oldprefix/dir, then
?X:   change it to $prefix/dir. If none of the above, reuse the old $var.
?X:
?X: When dir is omitted, the dflt variable is set to $var if prefix did not
?X: change, to an empty value otherwise. If dir=none, then a single space
```

```
?X: in var is kept as-is, even if the prefix changes.
?X:
?MAKE:Prefixit: prefix oldprefix
?MAKE: -pick add $@ %<
?LINT:define prefixit
?S:prefixit:
?S: This shell variable is used internally by Configure to reset
?S: the leading installation prefix correctly when it is changed.
?S:  set dflt var [dir]
?S:  eval $prefixit
?S: That will set $dflt to $var or $prefix/dir depending on the
?S: value of $var and $oldprefix.
?S:.
?V:prefixit
?T:tp
: set the prefixit variable, to compute a suitable default value
prefixit='case "$3" in
""|none)
 case "$oldprefix" in
 "") eval "$1=\"\$$2\"";;
 *)
  case "$3" in
  "") eval "$1=";;
  none)
   eval "tp=\"\$$2\"";
   case
 "$tp" in
   ""|" "|none) eval "$1=\"\$$2\"";;
   *) eval "$1=";;
   esac;;
  esac;;
 esac;;
*)
 eval "tp=\"$oldprefix-\$$2-\"", eval "tp=\"$tp\"";
 case "$tp" in
 --|/*--|\~*--) eval "$1=\"$prefix/$3\"";;
 /*-$oldprefix/*|\~*-$oldprefix/*)
  eval "$1=\`echo \$$2 | sed \"s,^$oldprefix,$prefix,\"\`";;
 *) eval "$1=\"\$$2\"";;
 esac;;
esac'
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Prefixit.U
No license file was found, but licenses were detected in source scan.

?RCS: Id

```
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_mkstemps: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkstemps:
?S: This variable conditionally defines the HAS_MKSTEMPS symbol, which
?S: indicates to the C program that the mkstemps() routine is available
?S: to exclusively create and open a uniquely named (with a suffix)
?S: temporary file.
?S:.
?C:HAS_MKSTEMPS :
?C: This symbol, if defined, indicates that the mkstemps routine is
?C: available to exclusively create and open a uniquely named
?C: (with a suffix) temporary file.
?C:.
?H:#$d_mkstemps HAS_MKSTEMPS  /**/
?H:.
?LINT:set d_mkstemps
: see if mkstemps exists
set mkstemps d_mkstemps
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_mkstemps.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: gidtype.U,v 3.0.1.3 1994/08/29 16:21:44 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: gidtype.U,v $
?RCS: Revision 3.0.1.3  1994/08/29  16:21:44  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS: patch32: removed useless usage of Setvar (for now)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:21:07  ram
?RCS: patch27: added lint hint
```

```
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:01:51  ram
?RCS: patch23: protected gidtype setting via setvar (ADO)
?RCS: patch23: made Gid_t comment more explicit (ADO)
?RCS:
?RCS: Revision
 3.0  1993/08/18  12:08:11  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:gidtype: Myread Typedef Findhdr
?MAKE: -pick add $@ %<
?S:gidtype:
?S: This variable defines Gid_t to be something like gid_t, int,
?S: ushort, or whatever type is used to declare the return type
?S: of getgid().  Typically, it is the type of group ids in the kernel.
?S:.
?C:Gid_t (GIDTYPE):
?C: This symbol holds the return type of getgid() and the type of
?C: argument to setrgid() and related functions.  Typically,
?C: it is the type of group ids in the kernel. It can be int, ushort,
?C: gid_t, etc... It may be necessary to include <sys/types.h> to get
?C: any typedef'ed information.
?C:.
?H:#define Gid_t $gidtype  /* Type for getgid(), etc... */
?H:.
?T:xxx
: see what type gids are declared as in the kernel
echo " "
echo "Looking for the type for group ids returned by getgid()."
set gid_t gidtype xxx stdio.h sys/types.h
eval $typedef
case "$gidtype" in
xxx)
 xxx=`./findhdr sys/user.h`
 set `grep
 'groups\[NGROUPS\];' "$xxx" 2>/dev/null` unsigned short
 case $1 in
 unsigned) dflt="$1 $2" ;;
 *) dflt="$1" ;;
 esac
 ;;
*) dflt="$gidtype";;
esac
case "$gidtype" in
gid_t) echo "gid_t found." ;;
*) rp="What is the type for group ids returned by getgid()?"
 . ./myread
 gidtype="$ans"
```

```
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/gidtype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Loc.U,v $
?RCS: Revision 3.0.1.10  1997/02/28  15:04:16  ram
?RCS: patch61: allow users to specify paths on the command line
?RCS: patch61: will now substitute cp for ln if not supported
?RCS:
?RCS: Revision 3.0.1.9  1995/09/25  09:11:24  ram
?RCS: patch59: commented the purpose of the #un-def directive
?RCS: patch59: abort Configure run when mandatory command is missing
?RCS:
?RCS: Revision 3.0.1.8  1995/07/25  13:40:40  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.7
  1995/01/11  15:13:37  ram
?RCS: patch45: protected "sh -c" within backquotes for Linux and SGI
?RCS: patch45: added path lookup for the 'comm' program
?RCS:
?RCS: Revision 3.0.1.6  1994/10/29  15:56:14  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: be careful and guard against wildcard searching (ADO)
?RCS:
?RCS: Revision 3.0.1.5  1994/06/20  06:54:55  ram
?RCS: patch30: now locates find
?RCS:
?RCS: Revision 3.0.1.4  1994/05/13  15:18:15  ram
?RCS: patch27: added byacc to the trylist (ADO)
?RCS: patch27: lint lines reformatted (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/01/24  14:01:44  ram
?RCS: patch16: added metalint hint on changed PATH variable
```

```
?RCS:
?RCS: Revision 3.0.1.2  1993/12/15  08:16:52  ram
?RCS: patch15: now set _test variable when test is built-in
?RCS: patch15: fixed rare cases where echo is not needed
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  15:47:13  ram
?RCS: patch10: test program not always in /bin/test (WAD)
?RCS:
?RCS: Revision
 3.0  1993/08/18  12:05:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script "loc" which can be used to find out
?X: where in a list of directories something is.  It then uses loc to
?X: determine the location of commonly used programs.  It leaves loc sitting
?X: around for other Configure units to use, but arranges for its demise
?X: at the end of Configure.
?X:
?X: To add a new program to find, add it both to the ?MAKE: line and to either
?X: the loclist or trylist variable.
?X:
?X: I put startsh at the end of the dependency list, in order to avoid the
?X: loading of the spitshell unit before the instructions.
?X:
?MAKE:Loc awk ar bash bison byacc cat chgrp chmod chown \
 comm compress cp cpio cpp csh date echo egrep emacs expr find flex \
 gmake gzip grep inews ksh less line lint ln lp lpr ls mail mailx \
 make mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \
 shar sleep smail sort submit tail tar tbl tee test touch tr troff
 \
 uname uniq uuname vi zcat zip:  eunicefix n c startsh Instruct Warn
?MAKE: -pick weed $@ %<
?LINT:describe awk ar bash bison byacc cat chgrp chmod chown \
 comm compress cp cpio cpp csh date echo egrep emacs expr find flex \
 gmake gzip grep inews ksh less line lint ln lp lpr ls mail mailx \
 make mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \
 shar sleep smail sort submit tail tar tbl tee test touch tr troff \
 uname uniq uuname vi zcat zip
?V::pth loclist trylist
?F:./loc
?T:thisthing thing xxx dir file say DJGPP
?T:_test _grep _cp _gmake _egrep _ln _make dflt
?LINT: change PATH
: find out where common programs are
echo " "
echo "Locating common programs..." >&4
cat <<EOSC >loc
```

```
$startsh
case \$# in
0) exit 1;;
esac
thing=\$1
shift
dflt=\$1
shift
for dir in \$*; do
 case "\$thing" in
 .)
 if test -d \$dir/\$thing; then
  echo \$dir
  exit 0
 fi
 ;;
 *)
?X: Be careful in case thing includes wildcards that might expand to multiple
?X: files.  Choose the last one.
  This happens when searching for shared
?X: libraries with version numbers.  How to choose which one we want is
?X: probably an insoluble problem, in general.
?X: Some folks leave things like libc.so.orig around w/o read
?X: permission.  A -r test would handle that, but since ./loc is
?X: also used to find executables (which are installed w/o read
?X: permission on SCO ODT 3.0, we can't include the -r test.
 for thisthing in \$dir/\$thing; do
  : just loop through to pick last item
 done
 if test -f \$thisthing; then
  echo \$thisthing
  exit 0
 elif test -f \$thisthing$_exe; then
  echo \$thisthing
  exit 0
 elif test -f \$dir/\$thing.exe; then
  if test -n "$DJGPP"; then
   echo \$dir/\$thing.exe
  else
   : on Eunice apparently
   echo \$dir/\$thing
  fi
  exit 0
 fi
 ;;
 esac
done
echo \$dflt
```

```
exit 1
EOSC
chmod +x loc
$eunicefix loc
loclist="
?awk:awk
?cat:cat
?chgrp:chgrp
?chmod:chmod
?chown:chown
?comm:comm
?cp:cp
?echo:echo
?expr:expr
?find:find
?grep:grep
?ls:ls
?mkdir:mkdir
?mv:mv
?rm:rm
?sed:sed
?sleep:sleep
?sort:sort
?tail:tail
?touch:touch
?tr:tr
?uniq:uniq
"
trylist="
?Mcc:Mcc
?ar:ar
?bash:bash
?bison:bison
?byacc:byacc
?compress:compress
?cpio:cpio
?cpp:cpp
?csh:csh
?date:date
?egrep:egrep
?emacs:emacs
?flex:flex
?gmake:gmake
?gzip:gzip
?inews:inews
?ksh:ksh
?less:less
?line:line
```

```
?lint:lint
?ln:ln
?lp:lp
?lpr:lpr
?mail:mail
?mailx:mailx
?make:make
?more:more
?nm:nm
?nroff:nroff
?perl:perl
?pg:pg
?pmake:pmake
?pr:pr
?rmail:rmail
?sendmail:sendmail
?shar:shar
?smail:smail
?submit:submit
?tar:tar
?tbl:tbl
?tee:tee
?test:test
?troff:troff
?uname:uname
?uuname:uuname
?vi:vi
?zcat:zcat
?zip:zip
"
?LINT:set
 awk ar bash bison byacc cat chgrp chmod chown \
 comm compress cp cpio cpp csh date echo emacs expr find flex \
 gmake gzip grep inews ksh less line lint lp lpr ls mail mailx \
 mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \
 shar sleep smail sort submit tail tar tbl tee touch tr troff \
 uname uniq uuname vi zcat zip
pth=`echo $PATH | sed
 -e "s/$p_/ /g"`
pth="$pth /lib /usr/lib"
for file in $loclist; do
?X:
?X: Allow them to -Dmake=pmake on the command line for instance...
?X: If the file is not fully qualified, as in -Dmake=pmake, then we
?X: look the for the specified command (pmake here). If they say
?X: -Dmake=/sbin/make for instance, then we make sure the file
?X: exists, or we die...
?X:
```

```
 eval xxx=\$$file
 case "$xxx" in
 /*|?:[\\/]*)
  if test -f "$xxx"; then
   : ok
  else
   ./warn "no $xxx -- ignoring your setting for $file."
   xxx=`./loc $file $file $pth`
  fi
  ;;
 ") xxx=`./loc $file $file $pth`;;
 *) xxx=`./loc $xxx $xxx $pth`;;
 esac
 eval $file=$xxx$_exe
 eval _$file=$xxx
 case "$xxx" in
 /*)
  echo $file is in $xxx.
  ;;
?X: Under OS/2, we have PC-like paths
 ?:[\\/]*)
  echo $file is in $xxx.
  ;;
 *)
  echo "I don't know where '$file' is, and my life depends on it." >&4
  echo "Go find a public domain implementation or fix your PATH setting!" >&4
  exit 1
  ;;
 esac
done
echo " "
echo "Don't worry
 if any of the following aren't found..."
say=offhand
for file in $trylist; do
?X: Allow them to -Dmake=pmake on the command line for instance (see above)
 eval xxx=\$$file
 case "$xxx" in
 /*|?:[\\/]*)
  if test -f "$xxx"; then
   : ok
  else
   ./warn "no $xxx -- ignoring your setting for $file."
   xxx=`./loc $file $file $pth`
  fi
  ;;
 ") xxx=`./loc $file $file $pth`;;
 *) xxx=`./loc $xxx $xxx $pth`;;
```

```
 esac
 eval $file=$xxx$_exe
 eval _$file=$xxx
 case "$xxx" in
 /*)
  echo $file is in $xxx.
  ;;
?X: Under OS/2, we have PC-like paths
 ?:[\\/]*)
  echo $file is in $xxx.
  ;;
 *)
  echo "I don't see $file out there, $say."
  say=either
  ;;
 esac
done
case "$egrep" in
egrep)
 echo "Substituting grep for egrep."
 egrep=$grep
 _egrep=$_grep
 ;;
esac
@if ln
case "$ln" in
ln)
 echo "Substituting cp for ln."
 ln=$cp
 _ln=$_cp
 ;;
esac
@end
@if make || gmake
case "$make" in
make)
 case "$gmake" in
 gmake)
 echo "I can't find make or gmake, and my life depends on it." >&4
 echo "Go find a
 public domain implementation or fix your PATH setting!" >&4
 exit 1
 ;;
 esac
 ;;
esac
case "$gmake" in
gmake) ;;
```

```
*) # We can't have osname yet.
 if test -f "/system/gnu_library/bin/ar.pm"; then # Stratus VOS
  # Assume that gmake, if found, is definitely GNU make
  # and prefer it over the system make.
  echo "Substituting gmake for make."
  make=$gmake
  _make=$_gmake
 fi
 ;;
esac
@end
case "$test" in
test)
 echo "Hopefully test is built into your sh."
 ;;
*)
 if `sh -c "PATH= test true" >/dev/null 2>&1`; then
  echo "Using the test built into your sh."
?X:
?X: We need to set both test and _test, since Oldconfig.U will use the _test
?X: value to systematically restore computed paths, which may be wrong if
?X: we choose to load an old config.sh generated on another platform.
?X:
  test=test
  _test=test
 fi
 ;;
esac
?LINT:change n c
case "$echo" in
echo)
 echo "Hopefully echo is built into your sh."
 ;;
?X: For those rare cases where we don't need $echo...
") ;;
*)
 echo " "
echo "Checking
 compatibility between $echo and builtin echo (if any)..." >&4
 $echo $n "hi there$c" >foo1
 echo $n "hi there$c" >foo2
 if cmp foo1 foo2 >/dev/null 2>&1; then
  echo "They are compatible.  In fact, they may be identical."
 else
  case "$n" in
  '-n') n=" c='\c';;
  *) n='-n' c=";;
  esac
```

```
  cat <<FOO
They are not compatible!  You are probably running ksh on a non-USG system.
I'll have to use $echo instead of the builtin, since Bourne shell doesn't
have echo built in and we may have to run some Bourne shell scripts.  That
means I'll have to use '$n$c' to suppress newlines now.  Life is ridiculous.

FOO
  $echo $n "The star should be here-->$c"
  $echo "*"
 fi
 $rm -f foo1 foo2
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Loc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getenv_thread.U,v 0RCS:
?RCS: Copyright (c) 2021 H.Merijn Brand, Karl Williamson
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getenv_preserves_other_thread: echo cat i_stdlib i_pthread run rm_try \
 Compile Setvar
?MAKE: -pick add $@ %<
?S:d_getenv_preserves_other_thread:
?S: This variable conditionally defines the GETENV_PRESERVES_OTHER_THREAD
?S: symbol, which indicates to the C program that the getenv() system call
?S: does not zap the static buffer in a different thread.
?S:.
?C:GETENV_PRESERVES_OTHER_THREAD:
?C: This symbol, if defined, indicates that the getenv system call doesn't
?C: zap the static buffer of getenv() in a different thread.
?C:
?C: The typical getenv() implementation will return a pointer to the proper
?C: position in **environ.  But some may instead copy them to
 a static
?C: buffer in getenv().  If there is a per-thread instance of that buffer,
?C: or the return points to **environ, then a many-reader/1-writer mutex
?C: will work; otherwise an exclusive locking mutex is required to prevent
?C: races.
?C:.
?H:#$d_getenv_preserves_other_thread GETENV_PRESERVES_OTHER_THREAD /**/
?H:.
?T:rc
```

```
?F:!try
?LINT:set d_getenv_preserves_other_thread
: check for getenv behavior
case "$d_getenv_preserves_other_thread" in
")
$echo "Checking to see if getenv() preserves a different thread's results" >&4
$cat >try.c <<EOCP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#include <stdio.h>
#include <string.h>
#$i_pthread I_PTHREAD
#ifdef I_PTHREAD
#  include <pthread.h>
#endif

void *
thread_start(void * arg)
{
   return (void *) getenv("HOME");
}

int main() {
   char * main_buffer;
   char save_main_buffer[1000];
   pthread_t subthread;
   pthread_attr_t attr;

   main_buffer = getenv("PATH");

   /* If too large for our generous allowance,
 return we couldn't figure it
    * out. */
   if (strlen(main_buffer) >= sizeof(save_main_buffer)) {
       exit(2);
   }

   strcpy(save_main_buffer, main_buffer);

   if (pthread_attr_init(&attr) != 0) {
       exit(2);
   }

   if (pthread_create(&subthread, &attr, thread_start, NULL) != 0) {
       exit(2);
   }
```

```
   if (pthread_join(subthread, NULL) != 0) {
       exit(2);
   }

   exit(! (strcmp(main_buffer, save_main_buffer) == 0));
}
EOCP
val=
set try
if eval $compile_ok; then
   $run ./try
   rc=$?
   case "$rc" in
 0) echo "getenv() didn't destroy another thread's buffer" >&4
    val=$define
    ;;
 1) echo "getenv() does destroy another thread's buffer" >&4
    val=$undef
    ;;
 *) echo "Couldn't determine if getenv() destroys another thread's return value (code=$rc); assuming it does" >&4
    val=$undef
    ;;
   esac
else
   echo "(I can't seem to compile the test program.)" >&4
   echo "Assuming that your C library's getenv destroys another thread's
 return value." >&4
   val=$undef
fi
set d_getenv_preserves_other_thread
eval $setvar
$rm_try
;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getenv_thread.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endnent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_endnent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_endnent: Inlibc
?MAKE: -pick add $@ %<
?S:d_endnent:
?S: This variable conditionally defines HAS_ENDNETENT if endnetent() is
?S: available to close whatever was being used for network queries.
?S:.
?C:HAS_ENDNETENT:
?C: This symbol, if defined, indicates that the endnetent() routine is
?C: available to close whatever was being used for network
 queries.
?C:.
?H:#$d_endnent HAS_ENDNETENT  /**/
?H:.
?LINT:set d_endnent
: see if endnetent exists
set endnetent d_endnent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_endnent.U
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```
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_frexpl: Inlibc
?MAKE: -pick add $@ %<
?S:d_frexpl:
?S: This variable conditionally defines the HAS_FREXPL symbol, which
?S: indicates to the C program that the frexpl() routine is available.
?S:.
?C:HAS_FREXPL:
?C: This symbol, if defined, indicates that the frexpl routine is
?C: available to break a long double floating-point number into
?C: a normalized fraction and an integral power of 2.
?C:.
```

```
?H:#$d_frexpl HAS_FREXPL  /**/
?H:.
?LINT:set d_frexpl
: see if frexpl exists
set frexpl d_frexpl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_frexpl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setnent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_setnent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setnent: Inlibc
?MAKE: -pick add $@ %<
?S:d_setnent:
?S: This variable conditionally defines HAS_SETNETENT if setnetent() is
?S: available.
?S:.
?C:HAS_SETNETENT:
?C: This symbol, if defined, indicates that the setnetent() routine is
?C: available.
?C:.
?H:#$d_setnent HAS_SETNETENT  /**/
?H:.
?LINT:set d_setnent
: see if setnetent exists
set
 setnetent d_setnent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_setnent.U

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```
?RCS: $Id: randfunc.U,v 3.0 1993/08/18 12:09:39 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: randfunc.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This is the new unit that should be used when random
?X: functions are to be used. It thus makes randbits.U obsolete.
?X:
?X: This unit gives a simple #define for Drand01, which produces
?X: doubles in the range [0,1) using the "best" random number
?X: generator available.  The source should just call Drand01
?X: and not worry about the underlying
 implementation.
?X:     Andy Dougherty  July 1998
?X:
?MAKE:randfunc drand01 seedfunc randbits randseedtype: \
 Compile Myread Csym ccflags
?MAKE: -pick add $@ %<
?S:randfunc:
?S: Indicates the name of the random number function to use.
?S: Values include drand48, random, and rand. In C programs,
?S: the 'Drand01' macro is defined to generate uniformly distributed
?S: random numbers over the range [0., 1.[ (see drand01 and nrand).
?S:.
?S:drand01:
?S: Indicates the macro to be used to generate normalized
?S: random numbers.  Uses randfunc, often divided by
?S: (double) (((unsigned long) 1 << randbits)) in order to
?S: normalize the result.
?S: In C programs, the macro 'Drand01' is mapped to drand01.
?S:.
?S:randseedtype:
?S: Indicates the type of the argument of the seedfunc.
?S:.
?S:seedfunc:
?S: Indicates the random number generating seed function.
```

```
?S: Values include srand48, srandom, and srand.
?S:.
?S:randbits:
?S: Indicates how many bits are produced by the function used to
?S: generate
 normalized random numbers.
?S:.
?C:RANDFUNC:
?C: This symbol defines the random function used to define Drand01().
?C:.
?C:Drand01:
?C: This macro is to be used to generate uniformly distributed
?C: random numbers over the range [0., 1.[.  You may have to supply
?C: an 'extern double drand48();' in your program since SunOS 4.1.3
?C: doesn't provide you with anything relevant in its headers.
?C: See HAS_DRAND48_PROTO.
?C:.
?C:Rand_seed_t:
?C: This symbol defines the type of the argument of the
?C: random seed function.
?C:.
?C:seedDrand01:
?C: This symbol defines the macro to be used in seeding the
?C: random number generator (see Drand01).
?C:.
?C:RANDBITS:
?C: This symbol indicates how many bits are produced by the
?C: function used to generate normalized random numbers.
?C: Values include 15, 16, 31, and 48.
?C:.
?H:#define RANDFUNC  $randfunc  /**/
?H:#define Drand01()  $drand01  /**/
?H:#define Rand_seed_t  $randseedtype  /**/
?H:#define seedDrand01(x) $seedfunc((Rand_seed_t)x) /**/
?H:#define
 RANDBITS  $randbits  /**/
?H:.
?LINT:change ccflags
?LINT:unclosed $randbits))"
: How can we generate normalized random numbers ?
echo " "
echo "Using our internal random number implementation..." >&4

case "$ccflags" in
*-Dmy_rand=*|*-Dmy_srand=*)
 echo "Removing obsolete -Dmy_rand, -Dmy_srand, and -Drandbits from ccflags." >&4
 ccflags="`echo $ccflags | sed -e 's/-Dmy_rand=random/ /'`"
 ccflags="`echo $ccflags | sed -e 's/-Dmy_srand=srandom/ /'`"
```

```
 ccflags="`echo $ccflags | sed -e 's/-Drandbits=[0-9][0-9]*/ /'`"
 ;;
esac

randfunc=Perl_drand48
drand01="Perl_drand48()"
seedfunc="Perl_drand48_init"
randbits=48
randseedtype=U32
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/randfunc.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: lseektype.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:30:10  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lseektype: Myread Typedef
?MAKE: -pick add $@ %<
?S:lseektype:
?S: This variable defines lseektype to be something like off_t, long,
?S: or whatever type is used to declare lseek offset's type in the
?S: kernel (which also appears to be lseek's return type).
?S:.
?C:Off_t
 (LSEEKTYPE):
?C: This symbol holds the type used to declare offsets in the kernel.
?C: It can be int, long, off_t, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Off_t $lseektype  /* <offset> type */
?H:.
: see what type lseek is declared as in the kernel
```

```
set off_t lseektype long stdio.h sys/types.h
eval $typedef
echo " "
dflt="$lseektype"
rp="What type is lseek's offset on this system declared as?"
. ./myread
lseektype="$ans"
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/lseektype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_table.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_table.U,v $
?RCS: Revision 3.0.1.2  1993/11/10  17:34:14  ram
?RCS: patch14: wrongly mentionned an obsolete symbol
?RCS:
?RCS: Revision 3.0.1.1  1993/10/16  13:49:29  ram
?RCS: patch12: created
?RCS:
?MAKE:d_table: Inlibc
?MAKE: -pick add $@ %<
?S:d_table:
?S: This variable conditionally defines HAS_TABLE if table() is
?S: available to examine/update elements from a system table.
?S:.
?C:HAS_TABLE:
?C: This symbol, if defined, indicates that the OSF/1
 table() system
?C: call is available to examine/update items from a system table.
?C:.
?H:#$d_table HAS_TABLE /**/
?H:.
?LINT:set d_table
: see if table exists
set table d_table
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_table.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_bzero.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_bzero.U,v $
?RCS: Revision 3.0.1.2  1993/10/16  13:48:15  ram
?RCS: patch12: added magic support for bzero()
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:01:33  ram
?RCS: patch10: now only defines HAS_BZERO, no macro remap on memset (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_bzero: Inlibc
?MAKE: -pick add $@ %<
?S:d_bzero:
?S: This variable conditionally defines the HAS_BZERO
 symbol if
?S: the bzero() routine is available to set memory to 0.
?S:.
?C:HAS_BZERO:
?C: This symbol is defined if the bzero() routine is available to
?C: set a memory block to 0.
?C:.
?H:#$d_bzero HAS_BZERO /**/
?H:.
?M:bzero: HAS_BZERO
?M:#ifndef HAS_BZERO
?M:#ifndef bzero
?M:#define bzero(s,l) memset((s),0,(l))
?M:#endif
?M:#endif
?M:.
?LINT:set d_bzero
: see if bzero exists
set bzero d_bzero
```

```
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_bzero.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_stdstdio.U,v 3.0.1.3 1997/02/28 15:46:32 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Tye McQueen <tye@metronet.com>
?RCS:
?RCS: $Log: d_stdstdio.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:46:32  ram
?RCS: patch61: merged with perl5's unit
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  14:06:54  ram
?RCS: patch56: typo fix on ?C: line for FILE_bufsiz
?RCS: patch56: fixed unbalanced parenthesis (ADO)
?RCS: patch56: check whether FILE_cnt and FILE_ptr can be assigned to (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1995/05/12  12:12:11  ram
?RCS:
 patch54: complete rewrite by Tye McQueen to fit modern systems
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_stdstdio d_stdiobase stdio_ptr stdio_cnt \
 d_stdio_ptr_lval_sets_cnt d_stdio_ptr_lval_nochange_cnt stdio_base \
 stdio_bufsiz d_stdio_cnt_lval d_stdio_ptr_lval stdio_filbuf: cat \
 Compile contains rm_try d_gnulibc gnulibc_version i_stdlib \
 Setvar Findhdr Oldconfig run to
?MAKE: -pick weed $@ %<
?S:d_stdstdio:
?S: This variable conditionally defines USE_STDIO_PTR if this system
?S: has a FILE structure declaring usable _ptr and _cnt fields (or
?S: equivalent) in stdio.h.
?S:.
?S:stdio_ptr:
?S: This variable defines how, given a FILE pointer, fp, to access the
```

```
?S: _ptr field (or equivalent) of stdio.h's FILE structure.  This will
?S: be used to define the macro FILE_ptr(fp).
?S:.
?S:d_stdio_ptr_lval:
?S: This variable conditionally defines STDIO_PTR_LVALUE if the
?S: FILE_ptr macro can be used as an lvalue.
?S:.
?S:stdio_cnt:
?S: This
 variable defines how, given a FILE pointer, fp, to access the
?S: _cnt field (or equivalent) of stdio.h's FILE structure.  This will
?S: be used to define the macro FILE_cnt(fp).
?S:.
?S:d_stdio_cnt_lval:
?S: This variable conditionally defines STDIO_CNT_LVALUE if the
?S: FILE_cnt macro can be used as an lvalue.
?S:.
?S:d_stdio_ptr_lval_sets_cnt:
?S: This symbol is defined if using the FILE_ptr macro as an lvalue
?S: to increase the pointer by n has the side effect of decreasing the
?S: value of File_cnt(fp) by n.
?S:.
?S:d_stdio_ptr_lval_nochange_cnt:
?S: This symbol is defined if using the FILE_ptr macro as an lvalue
?S: to increase the pointer by n leaves File_cnt(fp) unchanged.
?S:.
?S:stdio_filbuf:
?S: This variable defines how, given a FILE pointer, fp, to tell
?S: stdio to refill its internal buffers (?).  This will
?S: be used to define the macro FILE_filbuf(fp).
?S:.
?S:d_stdiobase:
?S: This variable conditionally defines USE_STDIO_BASE if this system
?S: has
 a FILE structure declaring a usable _base field (or equivalent)
?S: in stdio.h.
?S:.
?S:stdio_base:
?S: This variable defines how, given a FILE pointer, fp, to access the
?S: _base field (or equivalent) of stdio.h's FILE structure.  This will
?S: be used to define the macro FILE_base(fp).
?S:.
?S:stdio_bufsiz:
?S: This variable defines how, given a FILE pointer, fp, to determine
?S: the number of bytes store in the I/O buffer pointer to by the
?S: _base field (or equivalent) of stdio.h's FILE structure.  This will
?S: be used to define the macro FILE_bufsiz(fp).
?S:.
```

```
?C:USE_STDIO_PTR ~ d_stdstdio (USE_STD_STDIO STDSTDIO):
?C: This symbol is defined if the _ptr and _cnt fields (or similar)
?C: of the stdio FILE structure can be used to access the stdio buffer
?C: for a file handle.  If this is defined, then the FILE_ptr(fp)
?C: and FILE_cnt(fp) macros will also be defined and should be used
?C: to access these fields.
?C:.
?C:FILE_ptr:
?C: This macro is used to access the _ptr
 field (or equivalent) of the
?C: FILE structure pointed to by its argument. This macro will always be
?C: defined if USE_STDIO_PTR is defined.
?C:.
?C:STDIO_PTR_LVALUE:
?C: This symbol is defined if the FILE_ptr macro can be used as an
?C: lvalue.
?C:.
?C:FILE_cnt:
?C: This macro is used to access the _cnt field (or equivalent) of the
?C: FILE structure pointed to by its argument. This macro will always be
?C: defined if USE_STDIO_PTR is defined.
?C:.
?C:STDIO_CNT_LVALUE:
?C: This symbol is defined if the FILE_cnt macro can be used as an
?C: lvalue.
?C:.
?C:STDIO_PTR_LVAL_SETS_CNT:
?C: This symbol is defined if using the FILE_ptr macro as an lvalue
?C: to increase the pointer by n has the side effect of decreasing the
?C: value of File_cnt(fp) by n.
?C:.
?C:STDIO_PTR_LVAL_NOCHANGE_CNT:
?C: This symbol is defined if using the FILE_ptr macro as an lvalue
?C: to increase the pointer by n leaves File_cnt(fp) unchanged.
?C:.
?C:FILE_filbuf:
?C: This macro is used to access the internal stdio
 _filbuf function
?C: (or equivalent), if STDIO_CNT_LVALUE and STDIO_PTR_LVALUE
?C: are defined.  It is typically either _filbuf or __filbuf.
?C: This macro will only be defined if both STDIO_CNT_LVALUE and
?C: STDIO_PTR_LVALUE are defined.
?C:.
?H:?d_stdstdio:#$d_stdstdio USE_STDIO_PTR /**/
?H:?d_stdstdio:#ifdef USE_STDIO_PTR
?H:#define FILE_ptr(fp) $stdio_ptr
?H:#$d_stdio_ptr_lval STDIO_PTR_LVALUE  /**/
?H:#define FILE_cnt(fp) $stdio_cnt
```

```
?H:#$d_stdio_cnt_lval STDIO_CNT_LVALUE  /**/
?H:#$d_stdio_ptr_lval_sets_cnt STDIO_PTR_LVAL_SETS_CNT /**/
?H:#$d_stdio_ptr_lval_nochange_cnt STDIO_PTR_LVAL_NOCHANGE_CNT /**/
?H:?FILE_filbuf:#if defined(STDIO_PTR_LVALUE) && defined(STDIO_CNT_LVALUE)
?H:?FILE_filbuf:#define FILE_filbuf(fp) $stdio_filbuf  /**/
?H:?FILE_filbuf:#endif
?H:?d_stdstdio:#endif
?H:.
?W:d_stdstdio:FILE_ptr FILE_cnt FILE_filbuf
?C:USE_STDIO_BASE ~ d_stdiobase:
?C: This symbol is defined if the _base field (or similar) of the
?C: stdio FILE structure can be used to access the
 stdio buffer for
?C: a file handle.  If this is defined, then the FILE_base(fp) macro
?C: will also be defined and should be used to access this field.
?C: Also, the FILE_bufsiz(fp) macro will be defined and should be used
?C: to determine the number of bytes in the buffer.  USE_STDIO_BASE
?C: will never be defined unless USE_STDIO_PTR is.
?C:.
?C:FILE_base:
?C: This macro is used to access the _base field (or equivalent) of the
?C: FILE structure pointed to by its argument. This macro will always be
?C: defined if USE_STDIO_BASE is defined.
?C:.
?C:FILE_bufsiz:
?C: This macro is used to determine the number of bytes in the I/O
?C: buffer pointed to by _base field (or equivalent) of the FILE
?C: structure pointed to its argument. This macro will always be defined
?C: if USE_STDIO_BASE is defined.
?C:.
?H:?d_stdiobase:#$d_stdiobase USE_STDIO_BASE /**/
?H:?d_stdiobase:#ifdef USE_STDIO_BASE
?H:#define FILE_base(fp) $stdio_base
?H:#define FILE_bufsiz(fp) $stdio_bufsiz
?H:?d_stdiobase:#endif
?H:.
?W:d_stdiobase:FILE_base
 FILE_bufsiz
?T:ptr_lval cnt_lval filbuf xxx
?F:!try
?LINT:set d_stdstdio d_stdiobase
: see if _ptr and _cnt from stdio act std
echo " "

if $contains '_lbfsize' `./findhdr stdio.h` >/dev/null 2>&1 ; then
 echo "(Looks like you have stdio.h from BSD.)"
 case "$stdio_ptr" in
 ") stdio_ptr='((fp)->_p)'
```

```
  ptr_lval=$define
  ;;
 *) ptr_lval=$d_stdio_ptr_lval;;
 esac
 case "$stdio_cnt" in
 ") stdio_cnt='((fp)->_r)'
  cnt_lval=$define
  ;;
 *) cnt_lval=$d_stdio_cnt_lval;;
 esac
 case "$stdio_base" in
 ") stdio_base='((fp)->_ub._base ? (fp)->_ub._base : (fp)->_bf._base)';;
 esac
 case "$stdio_bufsiz" in
 ") stdio_bufsiz='((fp)->_ub._base ? (fp)->_ub._size : (fp)->_bf._size)';;
 esac
elif $contains '_IO_fpos_t' `./findhdr stdio.h` `./findhdr libio.h` >/dev/null 2>&1 ; then
 echo "(Looks like you have stdio.h from Linux.)"
 case "$stdio_ptr" in
 ") stdio_ptr='((fp)->_IO_read_ptr)'
  ptr_lval=$define
  ;;
 *) ptr_lval=$d_stdio_ptr_lval;;
 esac
 case "$stdio_cnt"
 in
 ") stdio_cnt='((fp)->_IO_read_end - (fp)->_IO_read_ptr)'
  cnt_lval=$undef
  ;;
 *) cnt_lval=$d_stdio_cnt_lval;;
 esac
 case "$stdio_base" in
 ") stdio_base='((fp)->_IO_read_base)';;
 esac
 case "$stdio_bufsiz" in
 ") stdio_bufsiz='((fp)->_IO_read_end - (fp)->_IO_read_base)';;
 esac
else
 case "$stdio_ptr" in
 ") stdio_ptr='((fp)->_ptr)'
  ptr_lval=$define
  ;;
 *) ptr_lval=$d_stdio_ptr_lval;;
 esac
 case "$stdio_cnt" in
 ") stdio_cnt='((fp)->_cnt)'
  cnt_lval=$define
  ;;
```

```
 *) cnt_lval=$d_stdio_cnt_lval;;
 esac
 case "$stdio_base" in
 ") stdio_base='((fp)->_base)';;
 esac
 case "$stdio_bufsiz" in
 ") stdio_bufsiz='((fp)->_cnt + (fp)->_ptr - (fp)->_base)';;
 esac
fi

: test whether _ptr and _cnt really work
echo "Checking how std your stdio is..." >&4
$cat >try.c <<EOP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#define FILE_ptr(fp) $stdio_ptr
#define FILE_cnt(fp) $stdio_cnt
int main() {
 FILE *fp = fopen("try.c", "r");
 char c = getc(fp);
 if
 (
  18 <= FILE_cnt(fp) &&
  strncmp(FILE_ptr(fp), "include <stdio.h>\n", 18) == 0
 )
  exit(0);
 exit(1);
}
EOP
val="$undef"
set try
if eval $compile && $to try.c; then
 if $run ./try; then
  echo "Your stdio acts pretty std."
  val="$define"
 else
  echo "Your stdio isn't very std."
 fi
else
 echo "Your stdio doesn't appear very std."
fi
$rm_try

# glibc 2.2.90 and above apparently change stdio streams so Perl's
# direct buffer manipulation no longer works.  The Configure tests
```

```
# should be changed to correctly detect this, but until then,
# the following check should at least let perl compile and run.
# (This quick fix should be updated before 5.8.1.)
# To be defensive, reject all unknown versions, and all versions  > 2.2.9.
# A. Dougherty, June 3, 2002.
case "$d_gnulibc" in
$define)
 case "$gnulibc_version" in
 2.[01]*)  ;;
 2.2) ;;
 2.2.[0-9]) ;;
 *)  echo "But I will not snoop inside glibc $gnulibc_version stdio buffers."
  val="$undef"
  ;;
 esac
 ;;
esac
set d_stdstdio
eval
 $setvar

@if STDIO_PTR_LVALUE || d_stdio_ptr_lval
: Can _ptr be used as an lvalue?
?X: Only makes sense if we have a known stdio implementation.
case "$d_stdstdio$ptr_lval" in
$define$define) val=$define ;;
*) val=$undef ;;
esac
set d_stdio_ptr_lval
eval $setvar
@end

@if STDIO_CNT_LVALUE || d_stdio_cnt_lval
: Can _cnt be used as an lvalue?
?X: Only makes sense if we have a known stdio implementation.
case "$d_stdstdio$cnt_lval" in
$define$define) val=$define ;;
*) val=$undef ;;
esac
set d_stdio_cnt_lval
eval $setvar
@end

@if FILE_filbuf
: How to access the stdio _filbuf or __filbuf function.
: If this fails, check how the getc macro in stdio.h works.
case "${d_stdio_ptr_lval}${d_stdio_cnt_lval}" in
${define}${define})
```

```
 : Try $hint value, if any, then _filbuf, __filbuf, _fill, then punt.
 : _fill is for os/2.
 xxx='notok'
 for filbuf in $stdio_filbuf '_filbuf(fp)' '__filbuf(fp) ' '_fill(fp)' ; do
  $cat >try.c <<EOP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#define
 FILE_ptr(fp) $stdio_ptr
#define FILE_cnt(fp) $stdio_cnt
#define FILE_filbuf(fp) $filbuf
int main() {
 FILE *fp = fopen("try.c", "r");
 int c;
 c = getc(fp);
 c = FILE_filbuf(fp);  /* Just looking for linker errors.*/
 exit(0);
}
EOP
  set try
  if eval $compile && $to try.c && $run ./try; then
   echo "Your stdio appears to use $filbuf"
   stdio_filbuf="$filbuf"
   xxx='ok'
   break
  else
   echo "Hmm.  $filbuf doesn't seem to work."
  fi
  $rm_try
 done
 case "$xxx" in
 notok) echo "I can't figure out how to access _filbuf"
   echo "I'll just have to work around it."
   d_stdio_ptr_lval="$undef"
   d_stdio_cnt_lval="$undef"
   ;;
 esac
 ;;
esac
@end

@if STDIO_PTR_LVALUE
: test whether setting _ptr sets _cnt as a side effect
d_stdio_ptr_lval_sets_cnt="$undef"
d_stdio_ptr_lval_nochange_cnt="$undef"
```

```
case "$d_stdio_ptr_lval$d_stdstdio" in
$define$define)
 echo "Checking to see what happens if we set the stdio ptr..." >&4
$cat >try.c <<EOP
#include <stdio.h>
/* Can
 we scream? */
/* Eat dust sed :-) */
/* In the buffer space, no one can hear you scream. */
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#define FILE_ptr(fp) $stdio_ptr
#define FILE_cnt(fp) $stdio_cnt
#include <sys/types.h>
int main() {
 FILE *fp = fopen("try.c", "r");
 int c;
 char *ptr;
 size_t cnt;
 if (!fp) {
     puts("Fail even to read");
     exit(1);
 }
 c = getc(fp); /* Read away the first # */
 if (c == EOF) {
     puts("Fail even to read");
     exit(1);
 }
 if (!(
  18 <= FILE_cnt(fp) &&
  strncmp(FILE_ptr(fp), "include <stdio.h>\n", 18) == 0
 )) {
  puts("Fail even to read");
  exit (1);
 }
 ptr = (char*) FILE_ptr(fp);
 cnt = (size_t)FILE_cnt(fp);

 FILE_ptr(fp) += 42;

 if ((char*)FILE_ptr(fp) != (ptr + 42)) {
  printf("Fail ptr check %p != %p", FILE_ptr(fp), (ptr + 42));
  exit (1);
 }
 if (FILE_cnt(fp) <= 20) {
  printf ("Fail (<20 chars to test)");
```

```
  exit (1);
 }
 if (strncmp(FILE_ptr(fp), "Eat dust sed :-) */\n", 20) != 0) {
  puts("Fail compare");
  exit
 (1);
 }
 if (cnt == FILE_cnt(fp)) {
  puts("Pass_unchanged");
  exit (0);
 }
 if (FILE_cnt(fp) == (cnt - 42)) {
  puts("Pass_changed");
  exit (0);
 }
 printf("Fail count was %d now %d\n", cnt, FILE_cnt(fp));
 return 1;

}
EOP
 set try
 if eval $compile && $to try.c; then
  case `$run ./try` in
  Pass_changed)
   echo "Increasing ptr in your stdio decreases cnt by the same amount.  Good." >&4
   d_stdio_ptr_lval_sets_cnt="$define" ;;
  Pass_unchanged)
   echo "Increasing ptr in your stdio leaves cnt unchanged.  Good." >&4
   d_stdio_ptr_lval_nochange_cnt="$define" ;;
  Fail*)
   echo "Increasing ptr in your stdio didn't do exactly what I expected.  We'll not be doing that then." >&4 ;;
  *)
   echo "It appears attempting to set ptr in your stdio is a bad plan." >&4 ;;
 esac
 else
  echo "It seems we can't set ptr in your stdio.  Nevermind." >&4
 fi
 $rm_try
 ;;
esac
@end

@if d_stdiobase || USE_STDIO_BASE || FILE_base || FILE_bufsiz
: see if _base is also standard
val="$undef"
case
 "$d_stdstdio" in
$define)
```

```
 $cat >try.c <<EOP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#define FILE_base(fp) $stdio_base
#define FILE_bufsiz(fp) $stdio_bufsiz
int main() {
 FILE *fp = fopen("try.c", "r");
 char c = getc(fp);
 if (
  19 <= FILE_bufsiz(fp) &&
  strncmp(FILE_base(fp), "#include <stdio.h>\n", 19) == 0
 )
  exit(0);
 exit(1);
}
EOP
 set try
 if eval $compile && $to try.c; then
  if $run ./try; then
   echo "And its _base field acts std."
   val="$define"
  else
   echo "But its _base field isn't std."
  fi
 else
  echo "However, it seems to be lacking the _base field."
 fi
 $rm_try
 ;;
esac
set d_stdiobase
eval $setvar

@end
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_stdstdio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_siglist.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_siglist.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:22  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_siglist: Csym Setvar
?MAKE: -pick add $@ %<
?S:d_siglist:
?S: This variable conditionally defines HAS_SYS_SIGLIST if sys_siglist[] is
?S: available to translate signal numbers to strings.
?S:.
?C:HAS_SYS_SIGLIST (SYS_SIGLIST):
?C: This symbol, if defined, indicates that the sys_siglist array is
?C: available to translate signal numbers
 to strings.
?C:.
?H:#$d_siglist HAS_SYS_SIGLIST  /**/
?H:.
?LINT:set d_siglist
: see if sys_siglist[] exist
echo " "
if set sys_siglist val -a d_siglist; eval $csym; $val; then
 echo "You have sys_siglist[] for signal description." >&4
 val="$define"
else
 echo "You don't have sys_siglist[]." >&4
 val="$undef"
fi
set d_siglist
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_siglist.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: scandir.C,v 3.0.1.1 1994/01/24 13:58:45 ram Exp ram $
*
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```
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* $Log: scandir.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:45  ram
* patch16: created
*
*/
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/lib/C/fake/scandir.C
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```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_logb: Inlibc
?MAKE: -pick add $@ %<
?S:d_logb:
?S: This variable conditionally defines the HAS_LOGB symbol, which
?S: indicates to the C program that the logb() routine is available
?S: to extract the exponent of x.
?S:.
?C:HAS_LOGB:
?C: This symbol, if defined, indicates that the logb routine is
?C: available to do the logb function.
?C:.
?H:#$d_logb HAS_LOGB  /**/
?H:.
?LINT:set d_logb
: see if logb exists
set logb d_logb
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_logb.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:longdblinfbytes longdblnanbytes doubleinfbytes doublenanbytes: Inlibc \
```

```
 cat Compile run rm_try Setvar echo d_longdbl \
 doublekind doublesize longdblkind longdblsize
?MAKE: -pick add $@ %<
?S:longdblinfbytes:
?S: This variable contains comma-separated list of hexadecimal bytes
?S: for the long double precision infinity.
?S:.
?S:longdblnanbytes:
?S: This variable contains comma-separated list of hexadecimal bytes
?S: for the long double precision not-a-number.
?S:.
?S:doubleinfbytes:
?S: This variable contains comma-separated list of hexadecimal bytes
?S: for the double precision infinity.
?S:.
?S:doublenanbytes:
?S: This variable contains comma-separated list of hexadecimal bytes
?S: for
 the double precision not-a-number.
?S:.
?C:DOUBLEINFBYTES:
?C: This symbol, if defined, is a comma-separated list of
?C: hexadecimal bytes for the double precision infinity.
?C:.
?C:DOUBLENANBYTES:
?C: This symbol, if defined, is a comma-separated list of
?C: hexadecimal bytes (0xHH) for the double precision not-a-number.
?C:.
?C:LONGDBLINFBYTES:
?C: This symbol, if defined, is a comma-separated list of
?C: hexadecimal bytes for the long double precision infinity.
?C:.
?C:LONGDBLNANBYTES:
?C: This symbol, if defined, is a comma-separated list of
?C: hexadecimal bytes (0xHH) for the long double precision not-a-number.
?C:.
?H:#define DOUBLEINFBYTES  $doubleinfbytes  /**/
?H:#define DOUBLENANBYTES  $doublenanbytes  /**/
?H:#define LONGDBLINFBYTES $longdblinfbytes  /**/
?H:#define LONGDBLNANBYTES $longdblnanbytes  /**/
?H:.
?F:!try
: Check what kind of inf/nan your system has
$echo "Checking the kind of infinities and nans you have..." >&4
$echo "(The following tests may crash.  That's
 okay.)" >&4
$cat >try.c <<EOP
#define DOUBLESIZE $doublesize
```

```
#$d_longdbl HAS_LONG_DOUBLE
#ifdef HAS_LONG_DOUBLE
#define LONG_DOUBLESIZE $longdblsize
#define LONG_DOUBLEKIND $longdblkind
#endif
#include <math.h>
#include <string.h>
#include <stdio.h>
/* Note that whether the sign bit is on or off
* for NaN depends on the CPU/FPU, and possibly
* can be affected by the build toolchain.
*
* For example for older MIPS and HP-PA 2.0 the quiet NaN is:
* 0x7f, 0xf7, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff
* 0x7f, 0xf4, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00
* (respectively) as opposed to the more usual
* 0x7f, 0xf8, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00
*
* Pre-IEEE-754 floating point format do not even have inf/nan support
* at all.  They might have a "max" value (DBL_MAX), which may be deadly
* to even mention, causing immediate SIGFPE or equivalent: this is
* the case with VAX floating point, for example.
*/
static void bytes(void *v, unsigned int n) {
 unsigned char *p = (unsigned
 char *)v;
 int i;
 for (i = 0; i < n; i++) {
   printf("0x%02x%s", p[i], i < n - 1 ? ", " : "\n");
 }
}
int main(int argc, char *argv[]) {
  /* We cannot use 1.0/0.0 and 0.0/0.0 (with L suffixes for long double)
   * because some compilers are 'smart' and not only warn but refuse to
   * compile such 'illegal' values. */
  double dinf = exp(1e9);
  double dnan = sqrt(-1.0);
#ifdef HAS_LONG_DOUBLE
  long double ldinf = (long double)exp(1e9);
  long double ldnan = (long double)sqrt(-1.0);
# if LONG_DOUBLEKIND == 3 || LONG_DOUBLEKIND == 4
/* the 80-bit long doubles might have garbage in their excess bytes */
   memset((char *)&ldinf + 10, '\0', LONG_DOUBLESIZE - 10);
   memset((char *)&ldnan + 10, '\0', LONG_DOUBLESIZE - 10);
# endif
#endif
 if (argc == 2) {
   switch (argv[1][0]) {
```

```
   case '1': bytes(&dinf, sizeof(dinf)); break;
   case '2': bytes(&dnan, sizeof(dnan)); break;
#ifdef HAS_LONG_DOUBLE
   case '3': bytes(&ldinf, sizeof(ldinf)); break;
   case '4': bytes(&ldnan,
 sizeof(ldnan)); break;
#endif
   }
 }
 return 0;
}
EOP
set try
if eval $compile; then
   doubleinfbytes=`$run ./try 1`
   doublenanbytes=`$run ./try 2`
   case "$d_longdbl" in
   $define)
     longdblinfbytes=`$run ./try 3`
     longdblnanbytes=`$run ./try 4`
     ;;
   esac
else
   # Defaults in case the above test program failed.
   case "$doublekind" in
   1) # IEEE 754 32-bit LE
      doubleinfbytes='0x00, 0x00, 0xf0, 0x7f'
      doublenanbytes='0x00, 0x00, 0xf8, 0x7f'
      ;;
   2) # IEEE 754 32-bit BE
      doubleinfbytes='0x7f, 0xf0, 0x00, 0x00'
      doublenanbytes='0x7f, 0xf8, 0x00, 0x00'
      ;;
   3) # IEEE 754 64-bit LE
      doubleinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf0, 0x7f'
      doublenanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf8, 0x7f'
      ;;
   4) # IEEE 754 64-bit BE
      doubleinfbytes='0x7f, 0xf0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00'
      doublenanbytes='0x7f, 0xf8, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00'

 ;;
   5) # IEEE 754 128-bit LE
      doubleinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf0,
0x7f'
      doublenanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf8,
0x7f'
      ;;
```

```
  6) # IEEE 754 128-bit BE
     doubleinfbytes='0x7f, 0xf0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
     doublenanbytes='0x7f, 0xf8, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
     ;;
  7) # IEEE 754 64-bit mixed: 32-bit LEs in BE
     doubleinfbytes='0x00, 0x00, 0xf0, 0x7f, 0x00, 0x00, 0x00, 0x00'
     doublenanbytes='0x00, 0x00, 0xf8, 0x7f, 0x00, 0x00, 0x00, 0x00'
     ;;
  8) # IEEE 754 64-bit mixed: 32-bit BEs in LE
     doubleinfbytes='0x00, 0x00, 0x00, 0x00, 0x7f, 0xf0, 0x00, 0x00'
     doublenanbytes='0x00, 0x00, 0x00, 0x00, 0x7f, 0xf8, 0x00, 0x00'
     ;;
  9|10|11|12|13|14) # VAX/Cray/IBM floating
 point formats, no inf/nan.
     doubleinfbytes=$undef
     doublenanbytes=$undef
     ;;
  *) # No idea.
     doubleinfbytes=$undef
     doublenanbytes=$undef
     ;;
  esac
  case "$longdblkind" in
  1) # IEEE 754 128-bit LE
     longdblinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xff,
0x7f'
     longdblnanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x80, 0xff,
0x7f'
     ;;
  2) # IEEE 754 128-bit BE
     longdblinfbytes='0x7f, 0xff, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
     longdblnanbytes='0x7f, 0xff, 0x80, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
     ;;
  3) # IEEE 754 80-bit LE, 12 or 16 bytes (x86)
     case "$longdblsize" in
     12) # x86 32-bit (96 bits, or 4 x 32, or 12 x 8)
        longdblinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x80, 0xff, 0x7f,
 0x00, 0x00'
        longdblnanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xc0, 0xff, 0x7f, 0x00, 0x00'
        ;;
     16) # x86_64
        longdblinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x80, 0xff, 0x7f, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
        longdblnanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xc0, 0xff, 0x7f, 0x00, 0x00, 0x00, 0x00, 0x00,
```

```
0x00'
        ;;
    *)  # No idea.
        longdblinfbytes=$undef
        longdblnanbytes=$undef
    ;;
    esac
    ;;
  4) # IEEE 754 80-bit BE, 12 or 16 bytes
    case "$longdblsize" in
    12) # 32-bit system
        longdblinfbytes='0x7f, 0xff, 0x80, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00'
        longdblnanbytes='0x7f, 0xff, 0xc0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00'
        ;;
    16) # 64-bit system
        longdblinfbytes='0x7f, 0xff, 0x80, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
         longdblnanbytes='0x7f, 0xff, 0xc0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
        ;;
    *)  # No idea.
        longdblinfbytes=$undef
        longdblnanbytes=$undef
    ;;
    esac
    ;;
  5) # 128-bit LE-LE "double double"
    longdblinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf0,
0x7f'
    longdblnanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf8,
0x7f'
    ;;
  6) # 128-bit BE-BE "double double"
    longdblinfbytes='0x7f, 0xf0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
    longdblnanbytes='0x7f, 0xf8, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
    ;;
  7) # 128-bit LE-BE "double double"
    longdblinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf0, 0x7f, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'

    longdblnanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf8, 0x7f, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
    ;;
  8) # 128-bit BE-LE "double double"
    longdblinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x7f, 0xf0, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
```

```
    longdblnanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x7f, 0xf8, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
    ;;
  9|10|11|12|13|14) # VAX/Cray/IBM floating point formats, no inf/nan.
    longdblinfbytes=$undef
    longdblnanbytes=$undef
    ;;
  *) # No idea.
    longdblinfbytes=$undef
    longdblnanbytes=$undef
    ;;
  esac
fi
# In case the program crashed the values are empty, turn them undef.
case "$doubleinfbytes" in
") doubleinfbytes=$undef ;;
esac
case "$doublenanbytes" in
") doublenanbytes=$undef ;;
esac
case "$longdblinfbytes" in
") longdblinfbytes=$undef ;;
esac
case "$longdblnanbytes" in
") longdblnanbytes=$undef ;;
esac
$rm_try
```

Found in path(s):
*
/opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/infnan.U
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```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_wifstat.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:47:43  ram
?RCS: patch61: added a ?F: metalint hint
?RCS:
```

```
?RCS: Revision 3.0.1.2  1995/07/25  14:09:10  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.1  1995/03/21  08:47:46  ram
?RCS: patch52: created
?RCS:
?MAKE:d_wifstat: d_uwait +cc +ccflags +ldflags +libs Oldconfig cat rm
?MAKE: -pick add $@ %<
?S:d_wifstat:
?S: This symbol conditionally defines USE_WIFSTAT if the C program can
?S: safely
 use the WIFxxx macros with the kind of wait() parameter
?S: declared in the program (see UNION_WAIT), or if it can't. Should
?S: only matter on HP-UX, where the macros are incorrectly written and
?S: therefore cause programs using them with an 'union wait' variable
?S: to not compile properly.
?S:.
?C:USE_WIFSTAT:
?C: This symbol, if defined, indicates to the C program that the argument
?C: for the WIFxxx set of macros such as WIFSIGNALED or WIFEXITED can
?C: be of the same kind as the one used to hold the wait() status. Should
?C: only matter on HP-UX, where the macros are incorrectly written and
?C: therefore cause programs using them with an 'union wait' variable
?C: to not compile properly. See also UNION_WAIT.
?C:.
?H:#$d_wifstat USE_WIFSTAT  /**/
?H:.
?T:type
?F:!foo
: see if we can use WIFxxx macros
echo " "
case "$d_wifstat" in
"$define") echo "As before, you can safely use WIFEXITED and friends!" >&4;;
"$undef") echo "You still can't use WIFEXITED and friends!" >&4;;
*)
 echo
 "Let's see whether you can use the WIFEXITED(status) macro and its"
 case "$d_uwait" in
 "$define") type='union wait';;
 *) type='int';;
 esac
 echo "friends with status declared as '$type status'..."
 $cat >foo.c <<EOCP
#include <sys/types.h>
#include <sys/wait.h>

int main()
{
```

```
 $type status;
 int e = 0;

#ifdef WIFEXITED
 if (WIFEXITED(status))
  printf("\n");
 exit(0);
#else
 exit(2);
#endif
}
EOCP
 d_wifstat="$undef"
 if $cc $ccflags $ldflags -o foo foo.c $libs >/dev/null 2>&1; then
  if ./foo >/dev/null; then
   echo "Great! Looks like we can use the WIFxxx macros." >&4
   d_wifstat="$define"
  else
   echo "You don't seem to have WIFxxx macros, but that's ok." >&4
  fi
 else
  echo "Apparently you can't use WIFxxx macros properly." >&4
 fi
 $rm -f foo.* foo core
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_wifstat.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:fpossize: Myread Typedef fpostype Compile longsize run i_stdlib
?MAKE: -pick add $@ %<
?S:fpossize:
?S: This variable contains the size of a fpostype in bytes.
?S:.
?C:Fpos_t_size:
?C: This symbol holds the size of a Fpos_t in bytes.
```

```
?C:.
?H:#define Fpos_t_size $fpossize  /* FPOS size */
?H:.
?T:yyy zzz
?F:!try
: Check size for Fpos_t
echo " "
case "$fpostype" in
*_t) zzz="$fpostype" ;;
*)   zzz="fpos_t" ;;
esac
echo "Checking the size of $zzz..." >&4
cat > try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef
 I_STDLIB
#include <stdlib.h>
#endif
int main() {
   printf("%d\n", (int)sizeof($fpostype));
   exit(0);
}
EOCP
set try
if eval $compile_ok; then
 yyy=`$run ./try`
 case "$yyy" in
 ") fpossize=4
  echo "(I can't execute the test program--guessing $fpossize.)" >&4
  ;;
 *) fpossize=$yyy
  echo "Your $zzz is $fpossize bytes long."
  ;;
 esac
else
 dflt="$longsize"
 echo " " >&4
 echo "(I can't compile the test program.  Guessing...)" >&4
 rp="What is the size of your file positions (in bytes)?"
 . ./myread
 fpossize="$ans"
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/fpossize.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_times.U,v 3.0.1.2 1995/07/25 14:07:50 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_times.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:07:50  ram
?RCS: patch56: typo fix, sytem -> system
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:14:00  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: What is the type returned by times() ?
?X:
?X: Force inclusion of <sys/types.h>
?X:INC: i_systypes
?MAKE:d_times clocktype:
 Csym Myread Typedef i_systimes
?MAKE: -pick add $@ %<
?S:d_times:
?S: This variable conditionally defines the HAS_TIMES symbol, which indicates
?S: that the times() routine exists.  The times() routine is normally
?S: provided on UNIX systems. You may have to include <sys/times.h>.
?S:.
?S:clocktype:
?S: This variable holds the type returned by times(). It can be long,
?S: or clock_t on BSD sites (in which case <sys/types.h> should be
?S: included).
?S:.
?C:HAS_TIMES (TIMES):
?C: This symbol, if defined, indicates that the times() routine exists.
?C: Note that this became obsolete on some systems (SUNOS), which now
?C: use getrusage(). It may be necessary to include <sys/times.h>.
?C:.
?C:Clock_t (CLOCKTYPE):
?C: This symbol holds the type returned by times(). It can be long,
?C: or clock_t on BSD sites (in which case <sys/types.h> should be
```

```
?C: included).
?C:.
?H:#$d_times HAS_TIMES  /**/
?H:#define Clock_t $clocktype /* Clock time */
?H:.
?T:val inc
: see if times exists
echo "
 "
if set times val -f d_times; eval $csym; $val; then
 echo 'times() found.' >&4
 d_times="$define"
 inc=''
 case "$i_systimes" in
 "$define") inc='sys/times.h';;
 esac
 rp="What is the type returned by times() on this system?"
 set clock_t clocktype long stdio.h sys/types.h $inc
 eval $typedef_ask
else
 echo 'times() NOT found, hope that will do.' >&4
 d_times="$undef"
?X: The following is needed for typedef (won't like an empty variable)
 clocktype='int'
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/d_times.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_niin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_niin.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit looks wether <netinet/in.h> is available or not
?X:
```

```
?MAKE:i_niin i_sysin: Inhdr
?MAKE: -pick add $@ %<
?S:i_niin:
?S: This variable conditionally defines I_NETINET_IN, which indicates
?S: to the C program that it should include <netinet/in.h>. Otherwise,
?S: you may try <sys/in.h>.
?S:.
?S:i_sysin:
?S: This variable conditionally
 defines I_SYS_IN, which indicates
?S: to the C program that it should include <sys/in.h> instead of
?S: <netinet/in.h>.
?S:.
?C:I_NETINET_IN:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <netinet/in.h>. Otherwise, you may try <sys/in.h>.
?C:.
?C:I_SYS_IN (I_SYSIN):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/in.h> instead of <netinet/in.h>.
?C:.
?H:#$i_niin I_NETINET_IN /**/
?H:#$i_sysin I_SYS_IN  /**/
?H:.
?LINT:set i_niin i_sysin
: see if this is a netinet/in.h or sys/in.h system
set netinet/in.h i_niin sys/in.h i_sysin
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_niin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sockopt.U,v 3.0.1.1 1995/07/25 14:16:14 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sockopt.U,v $
?RCS: Revision 3.0.1.1  1995/07/25  14:16:14  ram
?RCS: patch56: obsoleted KEEPALIVE in favor of CAN_KEEPALIVE for consistency
?RCS:
```

```
?RCS: Revision 3.0  1993/08/18  12:09:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_keepalive: cat rm contains +cc +ccflags +ldflags socketlib sockethdr \
 d_oldsock libs Oldconfig Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_keepalive:
?S: This symbol conditionally defines CAN_KEEPALIVE which
 indicates to the C
?S: program that setsockopt SO_KEEPALIVE will work properly.
?S:.
?C:CAN_KEEPALIVE (KEEPALIVE):
?C: This symbol if defined indicates to the C program that the SO_KEEPALIVE
?C: option of setsockopt() will work as advertised in the manual.
?C:.
?H:#$d_keepalive CAN_KEEPALIVE  /**/
?H:.
?F:!socket
?LINT:set d_keepalive
: see if setsockopt with SO_KEEPALIVE works as advertised
echo " "
case "$d_oldsock" in
"$undef")
 if $contains SO_KEEPALIVE `./findhdr sys/socket.h` \
  /dev/null >/dev/null 2>&1
 then
  echo "OK, let's see if SO_KEEPALIVE works as advertised..." >&4
  $cat > socket.c <<EOP
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
#include <netdb.h>

int main()
{
 int s = socket(AF_INET, SOCK_STREAM, 0);
 if (s == -1)
  exit(1);
 if (-1 == setsockopt(s, SOL_SOCKET, SO_KEEPALIVE, 0, 0))
  exit(2);
 exit(0);
}
EOP
  if $cc $ccflags $sockethdr $ldflags -o socket socket.c $libs \
   $socketlib >/dev/null 2>&1; then
   ./socket >/dev/null 2>&1
   case
```

```
 $? in
   0) echo "Yes, it does!"
    val="$define";;
   1) $cat <<EOM
(Something went wrong -- Assuming SO_KEEPALIVE is broken)
EOM
    val="$undef";;
   2) echo "No, it doesn't.  Don't trust your manuals!!"
    val="$undef";;
   esac
  else
   cat <<EOM
(I can't compile the test program -- Assuming SO_KEEPALIVE is broken)
EOM
   val="$undef"
  fi
 else
  echo "Strange!! You have BSD 4.2 sockets but no SO_KEEPALIVE option."
  val="$undef"
 fi;;
*) cat <<EOM
As you have an old socket interface, you can't have heard of SO_KEEPALIVE.
EOM
 val="$undef";;
esac
set d_keepalive
eval $setvar
$rm -f socket socket.c
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/sockopt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_msgctl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msgctl.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:38  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:d_msgctl: Inlibc
?MAKE: -pick add $@ %<
?S:d_msgctl:
?S: This variable conditionally defines the HAS_MSGCTL symbol, which
?S: indicates to the C program that the msgctl() routine is available.
?S:.
?C:HAS_MSGCTL:
?C: This symbol, if defined, indicates that the msgctl() routine is
?C: available to perform message control operations.
?C:.
?H:#$d_msgctl
 HAS_MSGCTL  /**/
?H:.
?LINT:set d_msgctl
: see if msgctl exists
set msgctl d_msgctl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_msgctl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setpwent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_setpwent_r setpwent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_pwd extern_C
?MAKE: -pick add $@ %<
?S:d_setpwent_r:
?S: This variable conditionally defines the HAS_SETPWENT_R symbol,
?S: which indicates to the C program that the setpwent_r()
?S: routine is available.
?S:.
?S:setpwent_r_proto:
?S: This variable encodes the prototype of setpwent_r.
?S: It is zero if d_setpwent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setpwent_r
?S: is defined.
?S:.
?C:HAS_SETPWENT_R:
?C: This symbol, if defined, indicates that the setpwent_r routine
?C: is available to
```

```
 setpwent re-entrantly.
?C:.
?C:SETPWENT_R_PROTO:
?C: This symbol encodes the prototype of setpwent_r.
?C: It is zero if d_setpwent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setpwent_r
?C: is defined.
?C:.
?H:#$d_setpwent_r HAS_SETPWENT_R /**/
?H:#define SETPWENT_R_PROTO $setpwent_r_proto /**/
?H:.
?T:try hdrs d_setpwent_r_proto
: see if setpwent_r exists
set setpwent_r d_setpwent_r
eval $inlibc
case "$d_setpwent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_pwd pwd.h"
 case "$d_setpwent_r_proto:$usethreads" in
 ":define") d_setpwent_r_proto=define
  set d_setpwent_r_proto setpwent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_setpwent_r_proto" in
 define)
 case "$setpwent_r_proto" in
 "|0) try='int setpwent_r(FILE**);'
 ./protochk "$extern_C $try" $hdrs && setpwent_r_proto=I_H ;;
 esac
 case "$setpwent_r_proto" in
 "|0) try='void setpwent_r(FILE**);'
 ./protochk "$extern_C $try" $hdrs && setpwent_r_proto=V_H ;;
 esac
 case "$setpwent_r_proto"
 in
 "|0) d_setpwent_r=undef
  setpwent_r_proto=0
  echo "Disabling setpwent_r, cannot determine prototype." >&4 ;;
 * ) case "$setpwent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) setpwent_r_proto="REENTRANT_PROTO_$setpwent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "setpwent_r has no prototype, not using it." >&4 ;;
```

```
  esac
  d_setpwent_r=undef
  setpwent_r_proto=0
  ;;
 esac
 ;;
*) setpwent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_setpwent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Head.U,v $
?RCS: Revision 3.0.1.9  1997/02/28  15:02:09  ram
?RCS: patch61: make sure we unset CDPATH for shells that support this
?RCS: patch61: improved Korn shell detection and handling
?RCS:
?RCS: Revision 3.0.1.8  1995/07/25  13:40:02  ram
?RCS: patch56: added SVR4-ish /opt directories to path list (ADO)
?RCS: patch56: OS/2 platforms are using another path separator
?RCS:
?RCS: Revision 3.0.1.7  1995/03/21  08:46:15  ram
?RCS: patch52: definition of paths wrongly added spurious ':' chars
?RCS:
?RCS:
 Revision 3.0.1.6  1994/10/29  15:54:19  ram
?RCS: patch36: make sure ENV is unset before calling /bin/ksh
?RCS:
?RCS: Revision 3.0.1.5  1994/08/29  16:03:44  ram
?RCS: patch32: now sets PATH only using existing directories
?RCS:
?RCS: Revision 3.0.1.4  1994/06/20  06:54:28  ram
?RCS: patch30: now computes its invocation name into 'me'
?RCS: patch30: symbol me is made visible to all units read-only
?RCS:
```

```
?RCS: Revision 3.0.1.3  1993/12/15  08:15:07  ram
?RCS: patch15: added /sbin:/usr/sbin:/usr/libexec in PATH for BSD/386
?RCS:
?RCS: Revision 3.0.1.2  1993/11/10  17:32:35  ram
?RCS: patch14: ensure PATH is reset to '.' before testing for alias
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:38:07  ram
?RCS: patch7: not all 'test' programs support the -x option
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This is the very first unit in the Configure script.  It is mostly just
?X: things to keep people from getting
 into a tizzy right off the bat.
?X:
?MAKE:Head:
?MAKE: -pick wipe $@ %<
?V:PATH p_ _exe me newsh
?T:argv Id p paths OS2_SHELL DJGPP
?T:inksh needksh avoidksh newsh changesh reason
?F:!*
?LINT:extern ENV CDPATH SHELL MACHTYPE
?LINT:change ENV CDPATH
?LINT:nocomment
#! /bin/sh
#
# If these # comments don't work, trim them. Don't worry about any other
# shell scripts, Configure will trim # comments from them for you.
#
# (If you are trying to port this package to a machine without sh,
# I would suggest you have a look at the prototypical config_h.SH file
# and edit it to reflect your system. Some packages may include samples
# of config.h for certain machines, so you might look for one of those.)
#
?X:
?X: NOTE THAT A CONFIGURE SCRIPT IS IN THE PUBLIC DOMAIN (whether or not
?X: the software which uses it is in the public domain).
?X:
# Yes, you may rip this off to use in other distribution packages. This
# script belongs to the public domain and cannot be copyrighted.
#
?X:
?X: WE ASK YOU
 NOT TO REMOVE OR ALTER THE FOLLOWING PARAGRAPH, PLEASE:
?X:
# Note: this Configure script was generated automatically. Rather than
```

```
# working with this copy of Configure, you may wish to get metaconfig.
# The dist package (which contains metaconfig) is available via SVN:
#     svn co https://svn.code.sf.net/p/dist/code/trunk/dist
?X:
?X: NOTA BENE:
?X: If you develop you own version of metaconfig based on this work,
?X: you have to add some comments telling that the script was generated
?X: by your version, not mine: It credits your work.
?X:

# $Id: Head.U 6 2006-08-25 22:21:46Z rmanfredi $
#
# Generated on <DATE> [metaconfig <VERSION> PL<PATCHLEVEL>]

cat >c1$$ <<EOF
ARGGGHHHH!!!!!

SCO csh still thinks true is false.  Write to SCO today and tell them that next
year Configure ought to "rm /bin/csh" unless they fix their blasted shell. :-)

(Actually, Configure ought to just patch csh in place.  Hmm.  Hmmmmm.  All
we'd have to do is go in and swap the && and || tokens, wherever they are.)

[End
 of diatribe. We now return you to your regularly scheduled programming...]
EOF
cat >c2$$ <<EOF

OOPS!  You naughty creature!  You didn't run Configure with sh!
I will attempt to remedy the situation by running sh for you...
EOF

true || cat c1$$ c2$$
true || exec sh $0 $argv:q

(exit $?0) || cat c2$$
(exit $?0) || exec sh $0 $argv:q
rm -f c1$$ c2$$

: compute my invocation name
me=$0
case "$0" in
*/*)
 me=`echo $0 | sed -e 's!.*/\(.*\)!\1!' 2>/dev/null`
 test "$me" || me=$0
 ;;
esac
```

```
?X:
?X: To be able to run under OS/2, we must detect that early enough to use
?X: the proper path separator, stored in $p_. It is : on UNIX and ; on
?X: DOSish systems such as OS/2.
?X:
: Proper separator for the PATH environment variable
p_=:
: On OS/2 this directory should exist if this is not floppy only system ":-]"
if test -d c:/. ; then
 if test -n "$OS2_SHELL"; then
  p_=\;
  PATH=`cmd /c "echo %PATH%" | tr '\\\\' / `
?X: That's a bug in ksh5.22
  OS2_SHELL=`cmd /c "echo %OS2_SHELL%" | tr
 '\\\\' / | tr '[A-Z]' '[a-z]'`
 elif test -n "$DJGPP"; then
  case "X${MACHTYPE:-nonesuchmach}" in
  *cygwin) ;;
  *) p_=\; ;;
  esac
 fi
fi

?X:
?X: There are two schools of thoughts here. Some people correctly argue that
?X: the user has a better chance than we do of setting a reasonable PATH and
?X: others argue that Configure is the best place there is to set up a suitable
?X: PATH. Well, here we try to compromize by keeping the user's PATH and
?X: appending some directories which are known to work on some machine or the
?X: other. The rationale behind this being that a novice user might not have a
?X: proper environment variable set, and some directories like /etc (where
?X: chown is located on some BSD systems) may be missing--RAM.
?X:
?X: SVR4 adds an /opt directory for optional packages.  Some sites use
?X: various permutations on /opt as opposed to /usr or /usr/local.-- ADO
?X:
?X: We only add directories that are not already in the PATH of the
?X: user and the directories must
 exist also.
?X:
: Proper PATH setting
paths='/bin /usr/bin /usr/local/bin /usr/ucb /usr/local /usr/lbin'
paths="$paths /opt/bin /opt/local/bin /opt/local /opt/lbin"
paths="$paths /usr/5bin /etc /usr/gnu/bin /usr/new /usr/new/bin /usr/nbin"
paths="$paths /opt/gnu/bin /opt/new /opt/new/bin /opt/nbin"
paths="$paths /sys5.3/bin /sys5.3/usr/bin /bsd4.3/bin /bsd4.3/usr/ucb"
paths="$paths /bsd4.3/usr/bin /usr/bsd /bsd43/bin /usr/ccs/bin"
paths="$paths /etc /usr/lib /usr/ucblib /lib /usr/ccs/lib"
```

```
paths="$paths /sbin /usr/sbin /usr/libexec"
paths="$paths /system/gnu_library/bin"

for p in $paths
do
 case "$p_$PATH$p_" in
 *$p_$p$p_*) ;;
 *) test -d $p && PATH=$PATH$p_$p ;;
 esac
done

PATH=.$p_$PATH
export PATH

: shall we be using ksh?
inksh=''
needksh=''
avoidksh=''
newsh=/bin/ksh
changesh=''
?X: Use (alias -x) and not (alias) since zsh and bash recognize the alias
?X: builtin but not the -x option which is typically ksh...
?X: We need to set up PATH before calling the "alias" built-in since
 some
?X: systems like HP-UX have a binary called /bin/alias.
if (PATH=.; alias -x) >/dev/null 2>&1; then
  inksh=true
fi
?X: On HP-UX, large Configure scripts may exercise a bug in /bin/sh, use ksh
if test -f /hp-ux -a -f /bin/ksh; then
 needksh='to avoid sh bug in "here document" expansion'
fi
?X: On AIX4, /bin/sh is really ksh and it causes problems, use sh
if test -d /usr/lpp -a -f /usr/bin/bsh -a -f /usr/bin/uname; then
 if test X`/usr/bin/uname -v` = X4; then
  avoidksh="to avoid AIX 4's /bin/sh"
  newsh=/usr/bin/bsh
 fi
fi
?X: On Digital UNIX, /bin/sh may start up buggy /bin/ksh, use sh
if test -f /osf_boot -a -f /usr/sbin/setld; then
 if test X`/usr/bin/uname -s` = XOSF1; then
  avoidksh="to avoid Digital UNIX' ksh"
  newsh=/bin/sh
?X: if BIN_SH is set to 'xpg4', sh will start up ksh
  unset BIN_SH
 fi
fi
```

```
?X: If we are not in ksh and need it, then feed us back to it
case "$inksh/$needksh" in
/[a-z]*)
?X: Clear ENV to avoid any ~/.kshrc that could alias cd or whatever...
?X: Don't
 use "unset ENV", that is not portable enough
  ENV="
  changesh=true
  reason="$needksh"
 ;;
esac
?X: If we are in ksh and must avoid it, then feed us back to a new shell
case "$inksh/$avoidksh" in
true/[a-z]*)
 changesh=true
 reason="$avoidksh"
 ;;
esac
?X: Warn them if they use ksh on other systems, which are those where
?X: we don't need ksh nor want to avoid it explicitly, yet are using it.
case "$inksh/$needksh-$avoidksh-" in
true/--)
  cat <<EOM
(I see you are using the Korn shell.  Some ksh's blow up on $me,
mainly on older exotic systems.  If yours does, try the Bourne shell instead.)
EOM
 ;;
esac
case "$changesh" in
true)
 export newsh
 echo "(Feeding myself to $newsh $reason.)"
?X: Make sure they didn't say sh <Configure by checking whether $0 ends
?X: with Configure or not. If they did say sh <../../Configure, then too
?X: bad for them anyway, since we lost that path indication...
?X: Otherwise, execing $0 ensures we keep the full remote source dir
?X: indication for src.U.
 case
 "$0" in
 Configure|*/Configure) exec $newsh $0 "$@";;
 *) exec $newsh Configure "$@";;
 esac
 ;;
esac

?X: Unset CDPATH to avoid surprises when using cd under some shells
?X: Can't unset it because that's not portable to very old shells.
?X: Can't set it to '' because then bash 2.02 won't do "cd UU"  --AD  6/98.
```

```
?X: Don't want to set it to '.' because then ksh prints out the
?X: name of the directory every time you cd to it. --AD 6/98
?X: In order to inflict the least harm, change it only if it's set.
: if needed, set CDPATH to a harmless value that is not chatty
case "$CDPATH" in
") ;;
*) case "$SHELL" in
 *bash*) CDPATH='.' ;;
 *) CDPATH='' ;;
 esac
 ;;
esac

: Configure runs within the UU subdirectory
test -d UU || mkdir UU
?X: Use ./* to avoid any confirmation prompts from enhanced shells -- WED
cd UU && rm -f ./*
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Head.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getlogin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_getlogin.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:41  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_getlogin: Inlibc
?MAKE: -pick add $@ %<
?S:d_getlogin:
?S: This variable conditionally defines the HAS_GETLOGIN symbol, which
?S: indicates to the C program that the getlogin() routine is available
?S: to get the login name.
?S:.
?C:HAS_GETLOGIN :
?C: This symbol,
```

```
 if defined, indicates that the getlogin routine is
?C: available to get the login name.
?C:.
?H:#$d_getlogin HAS_GETLOGIN  /**/
?H:.
?LINT:set d_getlogin
: see if getlogin exists
set getlogin d_getlogin
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getlogin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libnlist.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libnlist.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:08:02  ram
?RCS: patch61: added usrinc and mips on the dependency line
?RCS: patch61: make sure we call ./mips
?RCS: patch61: added a ?LINT: hint
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:00  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libnlist: Loc libpth Guess usrinc _a
?MAKE: -pick add $@ %<
?S:libnlist (libmld):
?S: This variable contains the name of the library required to
 get the
?S: definition of the nlist() function.  On a MIPS RISC/OS box, it is -lmld.
?S: Under Sys Vr4, it is -lelf.  Otherwise, its value is empty.
?S:.
?T:xxx
?LINT:use usrinc
: see if we need a special library for 'nlist()'
echo " "
: How about doing this if nlist is not in libc...
if ./mips ; then
```

```
 libnlist='-lmld'
else
 xxx=`./loc libelf$_a x $libpth`
 case "$xxx" in
 x)  ;;
 *)
  libnlist="$xxx"
  ;;
 esac
fi
case "$libnlist" in
") echo "No special library for nlist() seems necessary." >&4
 ;;
*)  echo "nlist() can be found in $libnlist." >&4
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/libnlist.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_safebcpy.U,v 3.0.1.4 1997/02/28 15:40:58 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_safebcpy.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  15:40:58  ram
?RCS: patch61: improved overlapping copy check
?RCS: patch61: comfort them if they have memmove
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.3  1995/07/25  13:58:40  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.2  1995/01/11  15:29:23  ram
?RCS: patch45: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS:
 Revision 3.0.1.1  1994/05/06  14:49:03  ram
?RCS: patch23: ensure string is not optimized in read-only memory (ADO)
?RCS:
```

```
?RCS: Revision 3.0  1993/08/18  12:06:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_safebcpy: cat d_bcopy Compile rm_try run \
 d_memmove i_memory i_stdlib i_string i_unistd Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_safebcpy:
?S: This variable conditionally defines the HAS_SAFE_BCOPY symbol if
?S: the bcopy() routine can do overlapping copies.  Normally, you
?S: should probably use memmove().
?S:.
?C:HAS_SAFE_BCOPY (SAFE_BCOPY):
?C: This symbol, if defined, indicates that the bcopy routine is available
?C: to copy potentially overlapping memory blocks. Normally, you should
?C: probably use memmove() or memcpy(). If neither is defined, roll your
?C: own version.
?C:.
?H:#$d_safebcpy HAS_SAFE_BCOPY /**/
?H:.
?F:!try
?LINT: set d_safebcpy
: can bcopy handle overlapping blocks?
echo " "
?X: assume the worst.
val="$undef"
case "$d_memmove" in
"$define")
 echo "I'll use memmove() instead of bcopy() for overlapping copies." ;;
*) case "$d_bcopy" in
 "$define")
  echo "Checking to see if bcopy() can do overlapping copies..." >&4
  $cat >try.c <<EOCP
#$i_memory I_MEMORY
#$i_stdlib I_STDLIB
#$i_string I_STRING
#$i_unistd I_UNISTD
EOCP
 $cat >>try.c <<'EOCP'
#include <stdio.h>
#ifdef I_MEMORY
#  include <memory.h>
#endif
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#ifdef I_STRING
#  include <string.h>
#else
```

```
#  include <strings.h>
#endif
#ifdef I_UNISTD
#  include <unistd.h>  /* Needed for NetBSD */
#endif
int main()
{
char buf[128], abc[128];
char *b;
int len;
int off;
int align;

/* Copy "abcde..." string to char abc[] so that gcc doesn't
  try to store the string in read-only memory. */
bcopy("abcdefghijklmnopqrstuvwxyz0123456789", abc, 36);

for (align = 7; align >= 0; align--) {
 for (len = 36; len; len--) {
  b = buf+align;
  bcopy(abc, b, len);
  for (off = 1; off <= len; off++) {
   bcopy(b, b+off, len);
   bcopy(b+off,
 b, len);
   if (bcmp(b, abc, len))
    exit(1);
  }
 }
}
exit(0);
}
EOCP
  set try
  if eval $compile_ok; then
   if $run ./try 2>/dev/null; then
    echo "Yes, it can."
    val="$define"
   else
    echo "It can't, sorry."
   fi
  else
   echo "(I can't compile the test program, so we'll assume not...)"
  fi
  ;;
 esac
 $rm_try
 ;;
```

```
esac
set d_safebcpy
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_safebcpy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pread.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_pread.U,v $
?RCS:
?MAKE:d_pread: Inlibc
?MAKE: -pick add $@ %<
?S:d_pread:
?S: This variable conditionally defines the HAS_PREAD symbol, which
?S: indicates to the C program that the pread() routine is available.
?S:.
?C:HAS_PREAD :
?C: This symbol, if defined, indicates that the pread routine is
?C: available to perform reads on a file descriptor at a given offset.
?C:.
?H:#$d_pread HAS_PREAD  /**/
?H:.
?LINT:set d_pread
: see if pread exists
set
 pread d_pread
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_pread.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_rint: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_rint:
?S: This variable conditionally defines the HAS_RINT symbol, which
?S: indicates to the C program that the rint() routine is available.
?S:.
?C:HAS_RINT:
?C: This symbol, if defined, indicates that the rint routine is
?C: available to return the nearest integral value to x as double
?C: using the current rounding mode.
?C:.
?H:#$d_rint HAS_RINT  /**/
?H:.
?LINT:set d_rint
: see if rint exists
set rint d_rint
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_rint.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2017-2018, H.Merijn Brand
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?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_accept4: Inlibc
?MAKE: -pick add $@ %<
?S:d_accept4:
?S: This variable conditionally defines HAS_ACCEPT4 if accept4() is
?S: available to accept socket connections.
?S:.
?C:HAS_ACCEPT4:
?C: This symbol, if defined, indicates that the accept4 routine is
?C: available to accept socket connections.
?C:.
?H:#$d_accept4 HAS_ACCEPT4 /**/
?H:.
?LINT:set d_accept4
: see if accept4 exists
set accept4 d_accept4
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_accept4.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2017 Dagfinn Ilmari Mannsåker
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strnlen: Inlibc
?MAKE: -pick add $@ %<
?S:d_strnlen:
?S: This variable conditionally defines the HAS_STRNLEN symbol, which
?S: indicates to the C program that the strnlen () routine is available.
?S:.
?C:HAS_STRNLEN:
?C: This symbol, if defined, indicates that the strnlen () routine is
?C: available to check the length of a string up to a maximum.
?C:.
?H:#$d_strnlen HAS_STRNLEN  /**/
?H:.
?LINT:set d_strnlen
: see if strnlen exists
set strnlen d_strnlen
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strnlen.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_memset.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memset.U,v $
?RCS: Revision 3.0.1.1  1993/09/13  16:03:11  ram
?RCS: patch10: removed text recommending bzero over memset (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:36  ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_memset: Inlibc
?MAKE: -pick add $@ %<
?S:d_memset:
?S: This variable conditionally defines the HAS_MEMSET symbol, which
?S: indicates to the C program that the memset() routine is available
?S: to set blocks of memory.
?S:.
?C:HAS_MEMSET
 (MEMSET):
?C: This symbol, if defined, indicates that the memset routine is available
?C: to set blocks of memory.
?C:.
?H:#$d_memset HAS_MEMSET /**/
?H:.
?LINT:set d_memset
: see if memset exists
set memset d_memset
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_memset.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getnetbyaddr_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getnetbyaddr_r getnetbyaddr_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getnetbyaddr_r:
?S: This variable conditionally defines the HAS_GETNETBYADDR_R symbol,
?S: which indicates to the C program that the getnetbyaddr_r()
?S: routine is available.
?S:.
?S:getnetbyaddr_r_proto:
?S: This variable encodes the prototype of getnetbyaddr_r.
?S: It is zero if d_getnetbyaddr_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getnetbyaddr_r
?S: is defined.
?S:.
```

```
?C:HAS_GETNETBYADDR_R:
?C: This symbol, if defined, indicates that
 the getnetbyaddr_r routine
?C: is available to getnetbyaddr re-entrantly.
?C:.
?C:GETNETBYADDR_R_PROTO:
?C: This symbol encodes the prototype of getnetbyaddr_r.
?C: It is zero if d_getnetbyaddr_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getnetbyaddr_r
?C: is defined.
?C:.
?H:#$d_getnetbyaddr_r HAS_GETNETBYADDR_R /**/
?H:#define GETNETBYADDR_R_PROTO $getnetbyaddr_r_proto /**/
?H:.
?T:try hdrs d_getnetbyaddr_r_proto
: see if getnetbyaddr_r exists
set getnetbyaddr_r d_getnetbyaddr_r
eval $inlibc
case "$d_getnetbyaddr_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getnetbyaddr_r_proto:$usethreads" in
 ":define") d_getnetbyaddr_r_proto=define
  set d_getnetbyaddr_r_proto getnetbyaddr_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getnetbyaddr_r_proto" in
 define)
 case "$getnetbyaddr_r_proto" in
 "|0) try='int getnetbyaddr_r(unsigned long, int, struct netent*, char*, size_t, struct netent**, int*);'
 ./protochk
 "$extern_C $try" $hdrs && getnetbyaddr_r_proto=I_UISBWRE ;;
 esac
 case "$getnetbyaddr_r_proto" in
 "|0) try='int getnetbyaddr_r(long, int, struct netent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=I_LISBI ;;
 esac
 case "$getnetbyaddr_r_proto" in
 "|0) try='struct netent* getnetbyaddr_r(in_addr_t, int, struct netent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=S_TISBI ;;
 esac
 case "$getnetbyaddr_r_proto" in
 "|0) try='struct netent* getnetbyaddr_r(long, int, struct netent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=S_LISBI ;;
 esac
 case "$getnetbyaddr_r_proto" in
 "|0) try='int getnetbyaddr_r(in_addr_t, int, struct netent*, struct netent_data*);'
```

```
 ./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=I_TISD ;;
 esac
 case "$getnetbyaddr_r_proto" in
 "|0) try='int getnetbyaddr_r(long, int, struct netent*, struct netent_data*);'
 ./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=I_LISD
 ;;
 esac
 case "$getnetbyaddr_r_proto" in
 "|0) try='int getnetbyaddr_r(int, int, struct netent*, struct netent_data*);'
 ./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=I_IISD ;;
 esac
 case "$getnetbyaddr_r_proto" in
 "|0) try='int getnetbyaddr_r(uint32_t, int, struct netent*, char*, size_t, struct netent**, int*);'
 ./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=I_uISBWRE ;;
 esac
 case "$getnetbyaddr_r_proto" in
 "|0) d_getnetbyaddr_r=undef
  getnetbyaddr_r_proto=0
  echo "Disabling getnetbyaddr_r, cannot determine prototype." >&4 ;;
 * ) case "$getnetbyaddr_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getnetbyaddr_r_proto="REENTRANT_PROTO_$getnetbyaddr_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getnetbyaddr_r has no prototype, not using it." >&4 ;;
  esac
  d_getnetbyaddr_r=undef
  getnetbyaddr_r_proto=0
  ;;
 esac
 ;;
*) getnetbyaddr_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getnetbyaddr_r.U
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?RCS:
?MAKE:d_lgamma_r: Inlibc
?MAKE: -pick add $@ %<

```
?S:d_lgamma_r:
?S: This variable conditionally defines the HAS_LGAMMA_R symbol, which
?S: indicates to the C program that the lgamma_r() routine is available
?S: for the log gamma function, without using the global signgam variable.
?S:.
?C:HAS_LGAMMA_R:
?C: This symbol, if defined, indicates that the lgamma_r routine is
?C: available to do the log gamma function without using the global
?C: signgam variable.
?C:.
?H:#$d_lgamma_r HAS_LGAMMA_R  /**/
?H:.
?LINT:set d_lgamma_r
: see if lgamma_r exists
set lgamma_r d_lgamma_r
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_lgamma_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_execinfo.U 34 2010-11-27 11:55:39Z rmanfredi $
?RCS:
?RCS: Copyright (c) 2011, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:i_execinfo: Inhdr
?MAKE: -pick add $@ %<
?S:i_execinfo:
?S: This variable conditionally defines the I_EXECINFO symbol, and indicates
?S: whether a C program may include <execinfo.h>, for backtrace() support.
?S:.
?C:I_EXECINFO:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <execinfo.h> for backtrace() support.
?C:.
?H:#$i_execinfo I_EXECINFO  /**/
?H:.
?LINT:set i_execinfo
: see if this is an execinfo.h system
set execinfo.h i_execinfo
eval
```

```
 $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_execinfo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_lstat.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_lstat.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:28  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_lstat: Inlibc
?MAKE: -pick add $@ %<
?S:d_lstat:
?S: This variable conditionally defines HAS_LSTAT if lstat() is
?S: available to do file stats on symbolic links.
?S:.
?C:HAS_LSTAT (LSTAT):
?C: This symbol, if defined, indicates that the lstat routine is
?C: available to do file stats on symbolic links.
?C:.
?H:#$d_lstat HAS_LSTAT  /**/
?H:.
?LINT:set
 d_lstat
: see if lstat exists
set lstat d_lstat
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_lstat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: so.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: so.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:30:04  ram
?RCS: patch36: now tells user how he can suppress shared lib lookup (ADO)
?RCS: patch36: removed echo at the top, since it's now in the here-doc (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:07:02  ram
?RCS: patch30: created
?RCS:
?X:
?X: This unit computes the shared-object / shared-lib extension
?X:
?MAKE:so d_libname_unique: test libpth Loc Myread Oldconfig cat Setvar
?MAKE: -pick add $@ %<
?S:so:
?S: This
 variable holds the extension used to identify shared libraries
?S: (also known as shared objects) on the system. Usually set to 'so'.
?S:.
?S:d_libname_unique:
?S: This variable is defined if the target system insists on unique
?S: basenames for shared library files. This is currently true on Android,
?S: false everywhere else we know of.
?S: Defaults to 'undef'.
?S:.
?LINT:set d_libname_unique
?T: xxx
: compute shared library extension
case "$so" in
")
 if xxx=`./loc libc.sl X $libpth`; $test -f "$xxx"; then
  dflt='sl'
 else
  dflt='so'
 fi
 ;;
*) dflt="$so";;
esac
$cat <<EOM

On some systems, shared libraries may be available.  Answer 'none' if
you want to suppress searching of shared libraries for the remainder
of this configuration.
```

```
EOM
rp='What is the file extension used for shared libraries?'
. ./myread
so="$ans"

: Does target system insist that shared library basenames are unique
$cat << EOM

Some dynamic loaders assume that the *basename* of shared library
 filenames
are globally unique.  We'll default this to undef as we assume your system
is not this weird. Set to defined if you're on one of them.

EOM

dflt='n'
rp='Make shared library basenames unique?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*)   val="$undef"  ;;
esac
set d_libname_unique
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/so.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2017-2018, H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_dup3: Inlibc
?MAKE: -pick add $@ %<
?S:d_dup3:
?S: This variable conditionally defines HAS_DUP3 if dup3() is
?S: available to duplicate file descriptors.
?S:.
?C:HAS_DUP3:
?C: This symbol, if defined, indicates that the dup3 routine is
?C: available to duplicate file descriptors.
```

```
?C:.
?H:#$d_dup3 HAS_DUP3 /**/
?H:.
?LINT:set d_dup3
: see if dup3 exists
set dup3 d_dup3
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_dup3.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_systimeb.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_systimeb.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:37  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit looks wether <sys/timeb.h> should be included
?X: or not when using ftime() (for struct timeb definition).
?X:
?X: Force looking for <sys/time.h> for struct timeb.
?X:INC: i_systime
?MAKE:i_systimeb: test contains Loc Setvar Findhdr
?MAKE: -pick add $@ %<
?S:i_systimeb:
?S: This variable conditionally defines I_SYS_TIMEB,
 which indicates
?S: to the C program that it should include <sys/timeb.h>.
?S:.
?C:I_SYS_TIMEB (I_SYSTIMEB):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/timeb.h>, in order to define struct timeb (some systems
?C: define this in <sys/time.h>). This is useful when using ftime().
?C: You should include <sys/time.h> if I_SYS_TIMEB is not defined,
?C: nor is I_SYS_TIME.
?C:.
?H:#$i_systimeb I_SYS_TIMEB  /**/
```

```
?H:.
?T:xxx
?LINT:set i_systimeb
: see where struct timeb is defined
echo " "
xxx=`./findhdr sys/timeb.h`
if $test "$xxx"; then
 if $contains 'struct timeb' $xxx >/dev/null 2>&1; then
  val="$define"
  echo "You have struct timeb defined in <sys/timeb.h>." >&4
 else
  val="$undef"
  echo "Assuming struct timeb is defined in <sys/time.h>." >&4
 fi
else
 val="$undef"
echo "No <sys/timeb.h> -- Assuming struct timeb is defined in <sys/time.h>." >&4
fi
set i_systimeb
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_systimeb.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_getpent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getpent: Inlibc
?MAKE: -pick add $@ %<
?S:d_getpent:
?S: This variable conditionally defines HAS_GETPROTOENT if getprotoent() is
?S: available to look up protocols in some data base or another.
?S:.
?C:HAS_GETPROTOENT:
?C: This symbol, if defined, indicates that the getprotoent() routine is
```

```
?C: available to look up protocols in some data base
 or another.
?C:.
?H:#$d_getpent HAS_GETPROTOENT  /**/
?H:.
?LINT:set d_getpent
: see if getprotoent exists
set getprotoent d_getpent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_getpent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Typedef.U,v 3.0.1.3 1995/07/25 13:42:07 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Typedef.U,v $
?RCS: Revision 3.0.1.3  1995/07/25  13:42:07  ram
?RCS: patch56: added backslash escapes within evals to prevent space problems
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:01:16  ram
?RCS: patch36: don't clobber visible 'val' variable, use 'varval' instead
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:05:14  ram
?RCS: patch32: created
?RCS:
?X:
?X: This unit checks for the definition of a given typedef.
?X:
?X: To use it, say:
?X: set typedef
 val_t default [includes]
?X: eval $typedef
?X:
?MAKE:Typedef: cppstdin cppminus cppflags rm sed contains Oldconfig Myread
?MAKE: -pick add $@ %<
?LINT:define typedef
?LINT:define typedef_ask
?V:typedef typedef_ask
```

```
?S:typedef:
?S: This shell variable is used internally by Configure to check
?S: whether a given typedef is defined or not. A typical use is:
?S:  set typedef val_t default [includes]
?S:  eval $typedef
?S: That will return val_t set to default if the typedef was not found,
?S: to typedef otherwise. If no includes are specified, look in sys/types.h.
?S:.
?S:typedef_ask:
?S: This shell variable is used internally by Configure to check
?S: whether a given typedef is defined or not.  If it is not defined,
?S: this will call the ./myread script to prompt for an answer.
?S: It is intended to be used to avoid unnecessary prompts.
?S: A typical use is
?S:  rp="What is the type for file position used by fsetpos()?"
?S:  set fpos_t fpostype long stdio.h sys/types.h
?S:  eval $typedef_ask
?S: This
 will set fpostype=fpos_t, if fpos_t is available.  Otherwise
?S: it will call myread with a default of 'long', and a prompt of $rp.
?S:.
?T:type var def inclist varval inc
?F:!temp.c
: define an is-a-typedef? function
typedef='type=$1; var=$2; def=$3; shift; shift; shift; inclist=$@;
case "$inclist" in
"") inclist="sys/types.h";;
esac;
eval "varval=\$$var";
case "$varval" in
"")
 $rm -f temp.c;
 for inc in $inclist; do
  echo "#include <$inc>" >>temp.c;
 done;
?X: Maybe it's a #define instead of a typedef.
 echo "#ifdef $type" >> temp.c;
 echo "printf(\"We have $type\");" >> temp.c;
 echo "#endif" >> temp.c;
 $cppstdin $cppflags $cppminus < temp.c >temp.E 2>/dev/null;
 if $contains $type temp.E >/dev/null 2>&1; then
  eval "$var=\$type";
 else
  eval "$var=\$def";
 fi;
 $rm -f temp.?;;
*) eval "$var=\$varval";;
esac'
```

```
?X: Originally, I eval'd $typedef and then checked the results against
?X: $type.  Unfortunately, it then became complicated to check
?X: whether you are re-using
 an old config.sh value, and the logic got
?X: so convoluted it became easier to just copy the function above
?X: and alter it slightly.  A.D.  3/1998
: define an is-a-typedef? function that prompts if the type is not available.
typedef_ask='type=$1; var=$2; def=$3; shift; shift; shift; inclist=$@;
case "$inclist" in
"") inclist="sys/types.h";;
esac;
eval "varval=\$$var";
case "$varval" in
"")
 $rm -f temp.c;
 for inc in $inclist; do
  echo "#include <$inc>" >>temp.c;
 done;
?X: Maybe it's a #define instead of a typedef.
 echo "#ifdef $type" >> temp.c;
 echo "printf(\"We have $type\");" >> temp.c;
 echo "#endif" >> temp.c;
 $cppstdin $cppflags $cppminus < temp.c >temp.E 2>/dev/null;
 echo " " ;
 echo "$rp" | $sed -e "s/What is/Looking for/" -e "s/?/./";
 if $contains $type temp.E >/dev/null 2>&1; then
  echo "$type found." >&4;
  eval "$var=\$type";
 else
  echo "$type NOT found." >&4;
  dflt="$def";
  . ./myread ;
  eval "$var=\$ans";
 fi;
 $rm -f temp.?;;
*) eval "$var=\$varval";;
esac'

Found
 in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
5.36.0/U/typedefs/Typedef.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_setgrent.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
```

```
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_setgrent.U,v $
?RCS:
?MAKE:d_setgrent: Inlibc
?MAKE: -pick add $@ %<
?S:d_setgrent:
?S: This variable conditionally defines the HAS_SETGRENT symbol, which
?S: indicates to the C program that the setgrent() routine is available
?S: for initializing sequential access to the group database.
?S:.
?C:HAS_SETGRENT:
?C: This symbol, if defined, indicates that the setgrent routine is
?C: available for initializing sequential access of the group database.
?C:.
?H:#$d_setgrent HAS_SETGRENT  /**/
?H:.
?LINT:set d_setgrent
: see if setgrent exists
set setgrent d_setgrent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_setgrent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Init.U,v $
?RCS: Revision 3.0.1.1  1994/10/31  09:45:59  ram
?RCS: patch44: removed Options from MAKE to prevent Init overrides
?RCS: patch44: option processing now done after Myinit thanks to new Begin.U
?RCS: patch44: moved "Beginning of configuration questions" to Begin.U
?RCS: patch44: moved signal trapping instruction to Begin.U as well
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:02  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?X:
?X: This file initializes certain default variables
 used by Configure.  They
?X: may be overridden or added to by definitions in Myinit.U.
?X:
?MAKE:Init eunicefix _exe: Null
?MAKE: -pick add $@ %<
?MAKE: -pick weed $@ ./Init
?S:eunicefix:
?S: When running under Eunice this variable contains a command which will
?S: convert a shell script to the proper form of text file for it to be
?S: executable by the shell.  On other systems it is a no-op.
?S:.
?S:_exe (exe_ext):
?S: This variable defines the extension used for executable files.
?S: For unix it is empty.  Other possible values include '.exe'.
?S: DJGPP, Cygwin and OS/2 use '.exe'.  Stratus VOS uses '.pm'.
?S: On operating systems which do not require a specific extension
?S: for executable files, this variable is empty.
?S:.
?V:define undef smallmach:rmlist
?X:
?X: Throughout the units, one may make use of $define and $undef to reference
?X: a defined symbol or an undefined one. There is no need to add them in
?X: the dependency line since this unit makes them visible via ?V:, and
?X:
 everyone inherits from those symbols since by convention Init.U is the
?X: root dependency.
?X:
?T: DJGPP
: Initialize wide constants
define='define'
undef='undef'
smallmach='pdp11 i8086 z8000 i80286 iAPX286'
rmlist=''

: We must find out about Eunice early
eunicefix=':'
if test -f /etc/unixtovms; then
 eunicefix=/etc/unixtovms
fi
if test -f /etc/unixtovms.exe; then
 eunicefix=/etc/unixtovms.exe
fi

: Set executable suffix now -- needed before hints available
if test -f "/libs/version.library"; then
```

```
 : Amiga OS
  _exe=""
elif test -f "/system/gnu_library/bin/ar.pm"; then
 : Stratus VOS
 _exe=".pm"
elif test -n "$DJGPP"; then
 : DOS DJGPP
  _exe=".exe"
elif test -d c:/. ; then
 : OS/2 or cygwin
 _exe=".exe"
else
 : All other UNIX systems
 _exe=""
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Init.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fp_class: Inlibc
?MAKE: -pick add $@ %<
?S:d_fp_class:
?S: This variable conditionally defines the HAS_FP_CLASS symbol, which
?S: indicates to the C program that the fp_class() routine is available.
?S:.
?C:HAS_FP_CLASS:
?C: This symbol, if defined, indicates that the fp_class routine is
?C: available to classify doubles.  Available for example in Digital UNIX.
?C: The returned values are defined in <math.h> and are:
?C:
?C: FP_SNAN           Signaling NaN (Not-a-Number)
?C: FP_QNAN           Quiet NaN (Not-a-Number)
?C: FP_POS_INF        +infinity
?C: FP_NEG_INF        -infinity
?C: FP_POS_NORM       Positive normalized
?C: FP_NEG_NORM       Negative normalized
?C: FP_POS_DENORM     Positive denormalized
?C: FP_NEG_DENORM
```

```
    Negative denormalized
?C: FP_POS_ZERO       +0.0 (positive zero)
?C: FP_NEG_ZERO       -0.0 (negative zero)
?C:.
?H:#$d_fp_class HAS_FP_CLASS  /**/
?H:.
?LINT:set d_fp_class
: see if fp_class exists
set fp_class d_fp_class
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fp_class.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_memccpy.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memccpy.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_memccpy: Inlibc
?MAKE: -pick add $@ %<
?S:d_memccpy:
?S: This variable conditionally defines the HAS_MEMCCPY symbol, which
?S: indicates to the C program that the memccpy() routine is available
?S: to copy a character into a block of memory.
?S:.
?C:HAS_MEMCCPY (MEMCCPY):
?C: This symbol, if defined, indicates that the memccpy routine
 is available
?C: to copy a character into a block of memory.  Otherwise you should
?C: roll your own.
?C:.
?H:#$d_memccpy HAS_MEMCCPY  /**/
?H:.
?LINT:set d_memccpy
: see if memccpy exists
set memccpy d_memccpy
```

```
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_memccpy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: floatsize.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:17:09  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:floatsize: cat rm Myread +cc +ccflags
?MAKE: -pick add $@ %<
?S:floatsize:
?S: This variable contains the value of the FLOATSIZE symbol, which
?S: indicates to the C program how many bytes there are in a float.
?S:.
?C:FLOATSIZE:
?C: This symbol contains the size of
 a float, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define FLOATSIZE $floatsize  /**/
?H:.
?F:!try
: check for length of float
echo " "
case "$floatsize" in
")
 echo "Checking to see how big your floating point numbers are..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
 printf("%d\n", sizeof(float));
```

```
}
EOCP
 if $cc $ccflags -o try try.c >/dev/null 2>&1 ; then
  dflt=`./try`
 else
  dflt='4'
  echo "(I can't seem to compile the test program.  Guessing...)"
 fi
 ;;
*)
 dflt="$floatsize"
 ;;
esac
rp="What is the size of a floating point number (in bytes)?"
. ./myread
floatsize="$ans"
$rm -f try.c try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/floatsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2005-2007 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_cplusplus: Compile Setvar run cat rm_try
?MAKE: -pick add $@ %<
?S:d_cplusplus (d_cplusplus.U):
?S: This variable conditionally defines the USE_CPLUSPLUS symbol, which
?S: indicates that a C++ compiler was used to compiled Perl and will be
?S: used to compile extensions.
?S:.
?C:USE_CPLUSPLUS:
?C: This symbol, if defined, indicates that a C++ compiler was
?C: used to compiled Perl and will be used to compile extensions.
?C:.
?H:#$d_cplusplus USE_CPLUSPLUS  /**/
?H:.
?F:!try
?LINT:set d_cplusplus
: Check if we are using C++
echo " "
echo "Checking for C++..." >&4
$cat >try.c <<'EOCP'
#include <stdio.h>
```

```
int main(void)
{
#ifdef __cplusplus
   return 0;
#else
   return 1;
#endif
}
EOCP
set try
if eval $compile_ok
 && $run ./try; then
 val="$define"
 echo "You are using a C++ compiler."
else
 val="$undef"
 echo "You are not using a C++ compiler."
fi
$rm_try cplusplus$$
set d_cplusplus
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_cplusplus.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getwd.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getwd.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:18  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getwd: Csym Setvar
?MAKE: -pick add $@ %<
?S:d_getwd:
?S: This variable conditionally defines HAS_GETWD if getwd() is
?S: available to get working directory. If not, you should
?S: probably use getcwd().
?S:.
```

```
?C:HAS_GETWD (GETWD):
?C: This symbol, if defined, indicates that the getwd routine is
?C: available to get working directory.
 If not, you should
?C: probably use getcwd().
?C:.
?H:#$d_getwd HAS_GETWD  /**/
?H:.
?LINT:set d_getwd
: see if getwd exists
echo " "
if set getwd val -f d_getwd; eval $csym; $val; then
 echo 'getwd() found.' >&4
 val="$define"
else
 echo 'getwd() not found. Assuming getcwd() exists.' >&4
 val="$undef"
fi
set d_getwd
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getwd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Hasproto.U $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X: This unit generates a $hasproto string that is used internally
?X: by Configure to check if this system has a prototype for a
?X: particular function
?X:
?X: To use it, say something like:
?X:  set d_getnetent_proto getnetent $i_netdb netdb.h
?X:  eval $hasproto
?X: Or, for more complicated sets of headers, do something like
?X: hdrs="$define sys/types.h
?X:  $i_systime sys/time.h
?X:  $i_sysselct sys/select.h
?X:  $i_netdb netdb.h"
?X: set d_getnetent_proto getnetent $hdrs
?X: eval $hasproto
?X:
```

```
?X: There is also an 'escape' hatch built in.  If you have a pair
?X: of args   'literal 'stuff' then 'stuff' gets included literally
?X: into the test program.  See Protochk.U for more details.
?X:
?MAKE:Hasproto:
 Setvar cppstdin cppflags cppminus contains rm_try test
?MAKE: -pick add $@ %<
?T:func varname
?F:!try.c
?V:hasproto
: Define hasproto macro for Configure internal use
hasproto='varname=$1; func=$2; shift; shift;
while $test $# -ge 2; do
 case "$1" in
 $define) echo "#include <$2>";;
 literal) echo "$2" ;;
 esac ;
   shift 2;
done > try.c;
$cppstdin $cppflags $cppminus < try.c > tryout.c 2>/dev/null;
if $contains "$func.*(" tryout.c >/dev/null 2>&1; then
 echo "$func() prototype found.";
 val="$define";
else
 echo "$func() prototype NOT found.";
 val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try tryout.c'
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/Hasproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:full_ar: ar
?MAKE: -pick add $@ %<
```

```
?S:full_ar:
?S: This variable contains the full pathname to 'ar', whether or
?S: not the user has specified 'portability'.  This is only used
?S: in the Makefile.SH.
?S:.
: Store the full pathname to the ar program for use in the C program
: Respect a hint or command line value for full_ar.
case "$full_ar" in
") full_ar=$ar ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/Loc_ar.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fseeko: Inlibc longsize
?MAKE: -pick add $@ %<
?S:d_fseeko:
?S: This variable conditionally defines the HAS_FSEEKO symbol, which
?S: indicates to the C program that the fseeko() routine is available.
?S:.
?C:HAS_FSEEKO:
?C: This symbol, if defined, indicates that the fseeko routine is
?C: available to fseek beyond 32 bits (useful for ILP32 hosts).
?C:.
?H:#$d_fseeko HAS_FSEEKO  /**/
?H:.
?LINT:set d_fseeko
: see if fseeko exists
set fseeko d_fseeko
eval $inlibc
case "$longsize" in
8) echo "(Your long is 64 bits, so you could use fseek.)" ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fseeko.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: prefix.U,v 3.1 1999/07/08 18:27:51 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: prefix.U,v $
?RCS: Revision 3.1  1999/07/08 18:27:51  doughera
?RCS: 5.005_5x version -- Andy Dougherty
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:44:05  ram
?RCS: patch49: new prefixexp variable holding a fully expanded prefix
?RCS: patch49: save off previous prefix value in oldprefix if changed (WED)
?RCS: patch49: added the INSTALLPREFIX define for C programs to use (WED)
?RCS:
?RCS:
 Revision 3.0.1.1  1994/08/29  16:31:34  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:prefix prefixexp +oldprefix: Getfile Loc Oldconfig cat package
?MAKE: -pick add $@ %<
?S:prefix:
?S: This variable holds the name of the directory below which the
?S: user will install the package.  Usually, this is /usr/local, and
?S: executables go in /usr/local/bin, library stuff in /usr/local/lib,
?S: man pages in /usr/local/man, etc.  It is only used to set defaults
?S: for things in bin.U, mansrc.U, privlib.U, or scriptdir.U.
?S:.
?S:prefixexp:
?S: This variable holds the full absolute path of the directory below
?S: which the user will install the package.  Derived from prefix.
?S:.
?S:oldprefix:
?S: This variable is set non-null if the prefix was previously defined
?S: and gets set to a new value. Used internally by Configure only.
?S:.
?C:INSTALLPREFIX:
?C: This symbol contains the name of the install prefix for this package.
?C:.
?H:#define INSTALLPREFIX "$prefix"  /**/
?H:.
:
```

```
 determine root of directory hierarchy where package will be installed.
case "$prefix" in
") dflt=`./loc . /usr/local /usr/local /local /opt /usr`
 ;;
*) dflt="$prefix"
 ;;
esac
$cat <<EOM

By default, $package will be installed in $dflt/bin, manual pages
under $dflt/man, etc..., i.e. with $dflt as prefix for all
installation directories. Typically this is something like /usr/local.
If you wish to have binaries under /usr/bin but other parts of the
installation under /usr/local, that's ok: you will be prompted
separately for each of the installation directories, the prefix being
only used to set the defaults.

EOM
fn=d~
rp='Installation prefix to use?'
. ./getfile
oldprefix=''
case "$prefix" in
") ;;
*) case "$ans" in
 "$prefix") ;;
 *) oldprefix="$prefix";;
 esac
 ;;
esac

case "$ans" in
*?/) prefix=`echo "$ans" | sed 's/.$//'`
 ;;
*) prefix="$ans"
esac

case "$ansexp" in
*?/) prefixexp=`echo "$ansexp" | sed 's/.$//'`
 ;;
*) prefixexp="$ansexp"
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/prefix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getfsstat : Inlibc
?MAKE: -pick add $@ %<
?S:d_getfsstat:
?S: This variable conditionally defines the HAS_GETFSSTAT symbol, which
?S: indicates to the C program that the getfsstat() routine is available.
?S:.
?C:HAS_GETFSSTAT:
?C: This symbol, if defined, indicates that the getfsstat routine is
?C: available to stat filesystems in bulk.
?C:.
?H:#$d_getfsstat HAS_GETFSSTAT  /**/
?H:.
?LINT:set d_getfsstat
: see if getfsstat exists
set getfsstat d_getfsstat
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_getfsstat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_voidsig.U,v $
?RCS: Revision 3.0.1.3  1995/05/12  12:12:46  ram
?RCS: patch54: made cppflags dependency optional
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:20:35  ram
?RCS: patch32: now sets signal_t only once d_voidsig is known (WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:59:54  ram
?RCS: patch30: now properly sets signal_t when re-using previous value
```

```
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_voidsig signal_t: rm contains
 cppstdin cppminus +cppflags test Myread \
 Oldconfig Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_voidsig:
?S: This variable conditionally defines VOIDSIG if this system
?S: declares "void (*signal(...))()" in signal.h.  The old way was to
?S: declare it as "int (*signal(...))()".
?S:.
?S:signal_t:
?S: This variable holds the type of the signal handler (void or int).
?S:.
?C:VOIDSIG:
?C: This symbol is defined if this system declares "void (*signal(...))()" in
?C: signal.h.  The old way was to declare it as "int (*signal(...))()".  It
?C: is up to the package author to declare things correctly based on the
?C: symbol.
?C:.
?C:Signal_t (SIGNAL_T):
?C: This symbol's value is either "void" or "int", corresponding to the
?C: appropriate return type of a signal handler.  Thus, you can declare
?C: a signal handler using "Signal_t (*handler)()", and define the
?C: handler using "Signal_t handler(sig)".
?C:.
?H:#$d_voidsig VOIDSIG  /**/
?H:#define Signal_t $signal_t /* Signal handler's return
 type */
?H:.
?T:xxx
?LINT:set d_voidsig
: see if signal is declared as pointer to function returning int or void
echo " "
xxx=`./findhdr signal.h`
$test "$xxx" && $cppstdin $cppminus $cppflags < $xxx >$$.tmp 2>/dev/null
if $contains 'int.*\*[  ]*signal' $$.tmp >/dev/null 2>&1 ; then
 echo "You have int (*signal())() instead of void." >&4
 val="$undef"
elif $contains 'void.*\*[  ]*signal' $$.tmp >/dev/null 2>&1 ; then
 echo "You have void (*signal())() instead of int." >&4
 val="$define"
elif $contains 'extern[  ]*[(\*]*signal' $$.tmp >/dev/null 2>&1 ; then
 echo "You have int (*signal())() instead of void." >&4
 val="$undef"
else
```

```
 case "$d_voidsig" in
 ")
 echo "I can't determine whether signal handler returns void or int..." >&4
  dflt=void
  rp="What type does your signal handler return?"
  . ./myread
  case "$ans" in
  v*) val="$define";;
  *) val="$undef";;
  esac;;
 "$define")
  echo "As you already told me, signal handler returns void." >&4;;
 *)
  echo "As you already told
 me, signal handler returns int." >&4;;
 esac
fi
set d_voidsig
eval $setvar
case "$d_voidsig" in
"$define") signal_t="void";;
*) signal_t="int";;
esac
$rm -f $$.tmp
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_voidsig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endpwent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_endpwent_r endpwent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_pwd extern_C
?MAKE: -pick add $@ %<
?S:d_endpwent_r:
?S: This variable conditionally defines the HAS_ENDPWENT_R symbol,
?S: which indicates to the C program that the endpwent_r()
?S: routine is available.
?S:.
?S:endpwent_r_proto:
?S: This variable encodes the prototype of endpwent_r.
```

```
?S: It is zero if d_endpwent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endpwent_r
?S: is defined.
?S:.
?C:HAS_ENDPWENT_R:
?C: This symbol, if defined, indicates that the endpwent_r routine
?C: is available to
 endpwent re-entrantly.
?C:.
?C:ENDPWENT_R_PROTO:
?C: This symbol encodes the prototype of endpwent_r.
?C: It is zero if d_endpwent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endpwent_r
?C: is defined.
?C:.
?H:#$d_endpwent_r HAS_ENDPWENT_R /**/
?H:#define ENDPWENT_R_PROTO $endpwent_r_proto /**/
?H:.
?T:try hdrs d_endpwent_r_proto
: see if endpwent_r exists
set endpwent_r d_endpwent_r
eval $inlibc
case "$d_endpwent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_pwd pwd.h"
 case "$d_endpwent_r_proto:$usethreads" in
 ":define") d_endpwent_r_proto=define
  set d_endpwent_r_proto endpwent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_endpwent_r_proto" in
 define)
 case "$endpwent_r_proto" in
 "|0) try='int endpwent_r(FILE**);'
 ./protochk "$extern_C $try" $hdrs && endpwent_r_proto=I_H ;;
 esac
 case "$endpwent_r_proto" in
 "|0) try='void endpwent_r(FILE**);'
 ./protochk "$extern_C $try" $hdrs && endpwent_r_proto=V_H ;;
 esac
 case "$endpwent_r_proto"
 in
 "|0) d_endpwent_r=undef
  endpwent_r_proto=0
  echo "Disabling endpwent_r, cannot determine prototype." >&4 ;;
 * ) case "$endpwent_r_proto" in
  REENTRANT_PROTO*) ;;
```

```
  *) endpwent_r_proto="REENTRANT_PROTO_$endpwent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "endpwent_r has no prototype, not using it." >&4 ;;
  esac
  d_endpwent_r=undef
  endpwent_r_proto=0
  ;;
 esac
 ;;
*) endpwent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_endpwent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pwrite.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_pwrite.U,v $
?RCS:
?MAKE:d_pwrite: Inlibc
?MAKE: -pick add $@ %<
?S:d_pwrite:
?S: This variable conditionally defines the HAS_PWRITE symbol, which
?S: indicates to the C program that the pwrite() routine is available.
?S:.
?C:HAS_PWRITE :
?C: This symbol, if defined, indicates that the pwrite routine is
?C: available to perform writes on a file descriptor at a given offset.
?C:.
?H:#$d_pwrite HAS_PWRITE  /**/
?H:.
?LINT:set d_pwrite
: see if pwrite
```

```
 exists
set pwrite d_pwrite
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_pwrite.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_difftime.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_difftime.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:31  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_difftime: Inlibc
?MAKE: -pick add $@ %<
?S:d_difftime:
?S: This variable conditionally defines the HAS_DIFFTIME symbol, which
?S: indicates to the C program that the difftime() routine is available.
?S:.
?C:HAS_DIFFTIME :
?C: This symbol, if defined, indicates that
 the difftime routine is
?C: available.
?C:.
?H:#$d_difftime HAS_DIFFTIME  /**/
?H:.
?LINT:set d_difftime
: see if difftime exists
set difftime d_difftime
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_difftime.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sbrksmart.U,v $
?RCS: Revision 3.0.1.2  1995/01/11  15:35:41  ram
?RCS: patch45: now sets sbrksmart to undef explicitly when lacking sbrk()
?RCS: patch45: forgot a cast when using return value from sbrk()
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:16:45  ram
?RCS: patch16: created
?RCS:
?MAKE:sbrksmart: cat d_sbrk +cc +ccflags +libs rm
?MAKE: -pick add $@ %<
?S:sbrksmart:
?S: This variable conditionally defines HAS_SMART_SBRK if the sbrk()
?S: routine honors a negative argument to lower the break
 value.
?S:.
?C:HAS_SMART_SBRK:
?C: This symbol is defined when the sbrk() system call may be used with
?C: a negative argument to lower the break value, therefore releasing
?C: core to the system. If not, you'd probably be better off using the
?C: mmap() system call.
?C:.
?H:#$sbrksmart HAS_SMART_SBRK /**/
?H:.
?T:dumb
?F:!sbrk
: see whether sbrk can release core to the kernel
echo " "
case "$d_sbrk" in
"$define")
 echo "Let's see if your sbrk() is smart enough to release core..." >&4
 $cat > sbrk.c <<EOC
#define INC 256  /* Small enough to be less than a page size */

int main()
{
 char *obrk = (char *) sbrk(0);
 char *nbrk;
```

```
 nbrk = (char *) sbrk(INC);
 if (nbrk == (char *) -1)
  exit(1); /* Not enough memory */
 if (nbrk != obrk)
  exit(2); /* Unreliable sbrk() */
 nbrk = (char *) sbrk(-INC);
 if (nbrk == (char *) -1)
  exit(3); /* May have understood negative arg as huge positive */
 if (obrk != (char *) sbrk(0))
  exit(4); /* Not smart, definitely */

 exit(0);  /* Ok */
}
EOC
 sbrksmart="$undef"
 dumb='--
 assuming dumb sbrk().'
 if $cc $ccflags -o sbrk sbrk.c $libs >/dev/null 2>&1; then
  ./sbrk >/dev/null 2>&1
  case $? in
  0) sbrksmart="$define"
   echo "Yes, it can be used with negative values." ;;
  1) echo "Sorry, not enough memory $dumb" ;;
  2) echo "No it's not, and besides it seems to be buggy..." ;;
  3) echo "No, it fails with negative values." ;;
  4) echo "Nope, your sbrk() is too dumb." ;;
  *) echo "Err... Unexpected result $dumb" ;;
  esac
 else
  echo "(Could not compile test program $dumb)"
 fi
 ;;
*)
 echo "Since you don't have sbrk(), let's forget about the smart test!"
 sbrksmart="$undef"
 ;;
esac
$rm -f sbrk sbrk.* core
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/sbrksmart.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_crypt.U,v $
?RCS:
?RCS: Copyright (c) 2002 Jarkko Hietaniemi
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_crypt: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_crypt:
?S: This variable conditionally defines the I_CRYPT symbol, and indicates
?S: whether a C program should include <crypt.h>.
?S:.
?C:I_CRYPT:
?C: This symbol, if defined, indicates that <crypt.h> exists and
?C: should be included.
?C:.
?H:#$i_crypt I_CRYPT  /**/
?H:.
?LINT:set i_crypt
: see if this is a crypt.h system
set crypt.h i_crypt
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_crypt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: netdbtype.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: netdbtype.U,v $
?RCS:
?MAKE:netdb_host_type netdb_hlen_type netdb_name_type netdb_net_type: \
 Protochk Oldconfig Myread cat \
 d_gethbyaddr d_gethbyname d_getnbyaddr \
 i_niin i_netdb i_unistd d_socket sizetype extern_C
?MAKE: -pick add $@ %<
?S:netdb_host_type:
?S: This variable holds the type used for the 1st argument to
?S: gethostbyaddr().  Usually, this is char * or void *,  possibly
?S: with or without a const prefix.
?S: This is only useful if you have gethostbyaddr(), naturally.
?S:.
?S:netdb_hlen_type:
```

```
?S: This variable holds the type used for the 2nd argument to
?S: gethostbyaddr().  Usually,
 this is int or size_t or unsigned.
?S: This is only useful if you have gethostbyaddr(), naturally.
?S:.
?S:netdb_name_type:
?S: This variable holds the type used for the argument to
?S: gethostbyname().  Usually, this is char * or const char *.
?S: This is only useful if you have gethostbyname(), naturally.
?S:.
?S:netdb_net_type:
?S: This variable holds the type used for the 1st argument to
?S: getnetbyaddr().  Usually, this is int or long.
?S: This is only useful if you have getnetbyaddr(), naturally.
?S:.
?C:Netdb_host_t:
?C: This symbol holds the type used for the 1st argument
?C: to gethostbyaddr().
?C:.
?C:Netdb_hlen_t:
?C: This symbol holds the type used for the 2nd argument
?C: to gethostbyaddr().
?C:.
?C:Netdb_name_t:
?C: This symbol holds the type used for the argument to
?C: gethostbyname().
?C:.
?C:Netdb_net_t:
?C: This symbol holds the type used for the 1st argument to
?C: getnetbyaddr().
?C:.
?H:#define Netdb_host_t  $netdb_host_type /**/
?H:#define Netdb_hlen_t  $netdb_hlen_type
 /**/
?H:#define Netdb_name_t  $netdb_name_type /**/
?H:#define Netdb_net_t  $netdb_net_type /**/
?H:.
?T:xxx yyy try hdrs
@if netdb_host_type || Netdb_host_t || netdb_hlen_type || Netdb_hlen_t
: check for type of arguments to gethostbyaddr.
if test "X$netdb_host_type" = X -o "X$netdb_hlen_type" = X; then
 case "$d_gethbyaddr" in
 $define)
  $cat <<EOM

Checking to see what type of arguments are accepted by gethostbyaddr().
EOM
  hdrs="$define sys/types.h
```

```
  $d_socket sys/socket.h
  $i_niin netinet/in.h
  $i_netdb netdb.h
  $i_unistd unistd.h"
 : The first arg can 'char *' or 'void *'
 : The second arg is some of integral type
 for xxx in in_addr_t 'const void *' 'const char *' 'void *' 'char *'; do
  for yyy in size_t long int; do
   case "$netdb_host_type" in
   ") try="$extern_C struct hostent *gethostbyaddr($xxx, $yyy, int);"
    if ./protochk "$try" $hdrs; then
     echo "Your system accepts $xxx for the first arg."
     echo "...and $yyy for the second arg."
     netdb_host_type="$xxx"
     netdb_hlen_type="$yyy"
    fi
    ;;
   esac
  done
 done
 :
In case none of those worked, prompt the user.
 case "$netdb_host_type" in
 ") rp='What is the type for the 1st argument to gethostbyaddr?'
  dflt='char *'
  . ./myread
  netdb_host_type=$ans
  rp='What is the type for the 2nd argument to gethostbyaddr?'
  dflt="$sizetype"
  . ./myread
  netdb_hlen_type=$ans
  ;;
 esac
 ;;
*) : no gethostbyaddr, so pick harmless defaults
 netdb_host_type='char *'
 netdb_hlen_type="$sizetype"
 ;;
esac
# Remove the "const" if needed. -- but then we'll have a
# prototype clash!
# netdb_host_type=`echo "$netdb_host_type" | sed 's/^const //'`
fi
@end

@if netdb_name_type || Netdb_name_t
: check for type of argument to gethostbyname.
if test "X$netdb_name_type" = X ; then
```

```
 case "$d_gethbyname" in
 $define)
  $cat <<EOM

Checking to see what type of argument is accepted by gethostbyname().
EOM
  hdrs="$define sys/types.h
   $d_socket sys/socket.h
   $i_niin
 netinet/in.h
   $i_netdb netdb.h
   $i_unistd unistd.h"
  for xxx in "const char *" "char *"; do
   case "$netdb_name_type" in
   ") try="$extern_C struct hostent *gethostbyname($xxx);"
    if ./protochk "$try" $hdrs; then
     echo "Your system accepts $xxx."
     netdb_name_type="$xxx"
    fi
    ;;
   esac
  done
  : In case none of those worked, prompt the user.
  case "$netdb_name_type" in
  ") rp='What is the type for the 1st argument to gethostbyname?'
   dflt='char *'
   . ./myread
   netdb_name_type=$ans
   ;;
  esac
  ;;
 *) : no gethostbyname, so pick harmless default
  netdb_name_type='char *'
  ;;
 esac
fi
@end

@if netdb_net_type || Netdb_net_t
: check for type of 1st argument to getnetbyaddr.
if test "X$netdb_net_type" = X ; then
 case "$d_getnbyaddr" in
 $define)
  $cat <<EOM

Checking to see what type of 1st argument is accepted by getnetbyaddr().
EOM
  hdrs="$define sys/types.h
```

```
  $d_socket sys/socket.h
  $i_niin netinet/in.h
  $i_netdb netdb.h
  $i_unistd
 unistd.h"
  for xxx in in_addr_t "unsigned long" long "unsigned int" int; do
   case "$netdb_net_type" in
   ") try="$extern_C struct netent *getnetbyaddr($xxx, int);"
    if ./protochk "$try" $hdrs; then
     echo "Your system accepts $xxx."
     netdb_net_type="$xxx"
    fi
    ;;
   esac
  done
  : In case none of those worked, prompt the user.
  case "$netdb_net_type" in
  ") rp='What is the type for the 1st argument to getnetbyaddr?'
   dflt='long'
   . ./myread
   netdb_net_type=$ans
   ;;
  esac
  ;;
 *) : no getnetbyaddr, so pick harmless default
  netdb_net_type='long'
  ;;
 esac
fi
@end
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/netdbtype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strftime.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:36  ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strftime: Inlibc
?MAKE: -pick add $@ %<
?S:d_strftime:
?S: This variable conditionally defines HAS_STRFTIME if strftime() is
?S: available to format locale-specific times.
?S:.
?C:HAS_STRFTIME:
?C: This symbol, if defined, indicates that the strftime routine is
?C: available to format locale-specific times.
?C:.
?H:#$d_strftime HAS_STRFTIME /**/
?H:.
?LINT:set d_strftime
: see
 if strftime exists
set strftime d_strftime
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strftime.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: myhostname.U,v 3.0.1.3 1997/02/28 16:15:55 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: myhostname.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:15:55  ram
?RCS: patch61: improved hostname lookup by using ypmatch when NIS is used
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:25:43  ram
?RCS: patch36: call ./xenix explicitly instead of relying on PATH
?RCS: patch36: now uses new Tr unit to convert to/from lowercase
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:06:20  ram
?RCS: patch30: now a little more clever for domain name guessing
?RCS:
?RCS:
```

```
 Revision 3.0  1993/08/18  12:09:18  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:myhostname phostname mydomain: contains sed test Myread Oldconfig \
 Guess Loc awk echo sort uniq +usrinc rm hostcat Tr
?MAKE: -pick add $@ %<
?S:myhostname (hostname):
?S: This variable contains the eventual value of the MYHOSTNAME symbol,
?S: which is the name of the host the program is going to run on.
?S: The domain is not kept with hostname, but must be gotten from mydomain.
?S: The dot comes with mydomain, and need not be supplied by the program.
?S:.
?S:mydomain:
?S: This variable contains the eventual value of the MYDOMAIN symbol,
?S: which is the domain of the host the program is going to run on.
?S: The domain must be appended to myhostname to form a complete host name.
?S: The dot comes with mydomain, and need not be supplied by the program.
?S:.
?S:phostname:
?S: This variable contains the eventual value of the PHOSTNAME symbol,
?S: which is a command that can be fed to popen()
 to get the host name.
?S: The program should probably not presume that the domain is or isn't
?S: there already.
?S:.
?C:MYHOSTNAME (HOSTNAME):
?C: This symbol contains name of the host the program is going to run on.
?C: The domain is not kept with hostname, but must be gotten from MYDOMAIN.
?C: The dot comes with MYDOMAIN, and need not be supplied by the program.
?C: If gethostname() or uname() exist, MYHOSTNAME may be ignored. If MYDOMAIN
?C: is not used, MYHOSTNAME will hold the name derived from PHOSTNAME.
?C:.
?C:MYDOMAIN:
?C: This symbol contains the domain of the host the program is going to
?C: run on.  The domain must be appended to HOSTNAME to form a complete
?C: host name.  The dot comes with MYDOMAIN, and need not be supplied by
?C: the program.  If the host name is derived from PHOSTNAME, the domain
?C: may or may not already be there, and the program should check.
?C:.
?H:#define MYHOSTNAME "$myhostname"  /**/
?H:#define MYDOMAIN "$mydomain"  /**/
?H:.
?LINT:extern osname
?T:cont
 i tans tmp_re
: now get the host name
echo " "
echo "Figuring out host name..." >&4
```

```
case "$myhostname" in
") cont=true
 echo 'Maybe "hostname" will work...'
 if tans=`sh -c hostname 2>&1` ; then
  myhostname=$tans
  phostname=hostname
  cont=''
 fi
 ;;
*) cont='';;
esac
if $test "$cont"; then
 if ./xenix; then
  echo 'Oh, dear.  Maybe "/etc/systemid" is the key...'
  if tans=`cat /etc/systemid 2>&1` ; then
   myhostname=$tans
   phostname='cat /etc/systemid'
   echo "Whadyaknow.  Xenix always was a bit strange..."
   cont=''
  fi
 elif $test -r /etc/systemid; then
  echo "(What is a non-Xenix system doing with /etc/systemid?)"
 fi
fi
if $test "$cont"; then
 echo 'No, maybe "uuname -l" will work...'
 if tans=`sh -c 'uuname -l' 2>&1` ; then
  myhostname=$tans
  phostname='uuname -l'
 else
  echo 'Strange.  Maybe "uname -n" will work...'
  if tans=`sh -c 'uname -n' 2>&1` ; then
   myhostname=$tans
   phostname='uname -n'
  else
   echo 'Oh well, maybe I can mine it out of whoami.h...'
   if
 tans=`sh -c $contains' sysname $usrinc/whoami.h' 2>&1` ; then
    myhostname=`echo "$tans" | $sed 's/^.*"\(.*\)"/\1/'`
    phostname="sed -n -e ""/sysname/s/^.*\"\\(.*\\)\"/\1/{'"" -e p -e q -e '}' <$usrinc/whoami.h"
   else
    case "$myhostname" in
    ") echo "Does this machine have an identity crisis or something?"
     phostname='';;
    *)
     echo "Well, you said $myhostname before..."
     phostname='echo $myhostname';;
    esac
```

```
   fi
  fi
 fi
fi
case "$myhostname" in
") myhostname=noname ;;
esac
: you do not want to know about this
set $myhostname
myhostname=$1

: verify guess
if $test "$myhostname" ; then
 dflt=y
 rp='Your host name appears to be "'$myhostname'".' Right?"
 . ./myread
 case "$ans" in
 y*) ;;
 *) myhostname=";;
 esac
fi

: bad guess or no guess
while $test "X$myhostname" = X ; do
 dflt="
 rp="Please type the (one word) name of your host:"
 . ./myread
 myhostname="$ans"
done

: translate upper to lower if necessary
case "$myhostname" in
*[A-Z]*)
 echo
 "(Normalizing case in your host name)"
 myhostname=`echo $myhostname | ./tr '[A-Z]' '[a-z]'`
 ;;
esac

?X: Do not ask for domain name if this is not used later on. In that
?X: case, the hostname may keep its domain name, but it doesn't matter.
@if MYDOMAIN || mydomain
case "$myhostname" in
*.*)
 dflt=`expr "X$myhostname" : "X[^.]*\(\..*\)"`
 myhostname=`expr "X$myhostname" : "X\([^.]*\)\."`
 echo "(Trimming domain name from host name--host name is now $myhostname)"
 ;;
```

```
*) case "$mydomain" in
 ")
?X:
?X: There is currently no way to say we do not want hostcat if mydomain is not
?X: used. One way to achieve that would be to put that code in a mydomain.U
?X: unit. However, we want to stick the sanity checks right after the domain
?X: name computation, or if none is done, right after the hostname computation.
?X:
  {
?X: If we use NIS, try ypmatch.
   test "X$hostcat" = "Xypcat hosts" &&
   ypmatch "$myhostname" hosts 2>/dev/null |\
    $sed -e 's/[  ]*#.*//; s/$/ /' > hosts
 && \
   $test -s hosts
  } || {
?X: Extract only the relevant hosts, reducing file size,
?X: remove comments, insert trailing space for later use.
?X: Test to be sure we *have* a hostcat command.  os390 doesn't.
   test "X$hostcat" != "X" &&
   $hostcat | $sed -n -e "s/[  ]*#.*//; s/\$/ /
     /[  ]$myhostname[ . ]/p" > hosts
  }
  tmp_re="[ . ]"
  if $test -f hosts; then
   $test x`$awk "/[0-9].*[  ]$myhostname$tmp_re/ { sum++ }
       END { print sum }" hosts` = x1 || tmp_re="[  ]"
   dflt=.`$awk "/[0-9].*[  ]$myhostname$tmp_re/ {for(i=2; i<=NF;i++) print \\\$i}" \
    hosts | $sort | $uniq | \
    $sed -n -e "s/$myhostname\.\([-a-zA-Z0-9_.]\)/\1/p"`
   case `$echo X$dflt` in
   X*\ *) echo "(Several hosts in the database matched hostname)"
    dflt=.
    ;;
   X.) echo "(You do not have fully-qualified names in the hosts database)"
    ;;
   esac
  else
   echo "(I cannot locate a hosts database anywhere)"
   dflt=.
  fi
  case "$dflt" in
  .)
   tans=`./loc resolv.conf X /etc /usr/etc`
   if
 $test -f "$tans"; then
    echo "(Attempting domain name extraction from $tans)"
?X: Look for either a search or a domain directive.
```

```
    dflt=.`$sed -n -e 's/ / /g' \
      -e 's/^search  *\([^ ]*\).*/\1/p' $tans \
      -e 1q 2>/dev/null`
    case "$dflt" in
    .) dflt=.`$sed -n -e 's/ / /g' \
         -e 's/^domain  *\([^ ]*\).*/\1/p' $tans \
         -e 1q 2>/dev/null`
     ;;
    esac
   fi
   ;;
  esac
  case "$dflt" in
  .) echo "(No help from resolv.conf either -- attempting clever guess)"
   dflt=.`sh -c domainname 2>/dev/null`
   case "$dflt" in
   ") dflt='.';;
   .nis.*|.yp.*|.main.*) dflt=`echo $dflt | $sed -e 's/^\.[^.]*//'`;;
   esac
   ;;
  esac
  case "$dflt$osname" in
  .os390) echo "(Attempting domain name extraction from //'SYS1.TCPPARMS(TCPDATA)')"
   dflt=.`awk '/^DOMAINORIGIN/ {print $2}' "//'SYS1.TCPPARMS(TCPDATA)'" 2>/dev/null`
   ;;
  esac
  case "$dflt" in
  .) echo "(Lost all hope -- silly guess then)"
   dflt='.nonet'
   ;;
  esac
  $rm -f hosts
  ;;
 *)
 dflt="$mydomain";;
 esac;;
esac
echo " "
rp="What is your domain name?"
. ./myread
tans="$ans"
case "$ans" in
") ;;
.*) ;;
*) tans=".$tans";;
esac
mydomain="$tans"
```

```
: translate upper to lower if necessary
case "$mydomain" in
*[A-Z]*)
 echo "(Normalizing case in your domain name)"
 mydomain=`echo $mydomain | ./tr '[A-Z]' '[a-z]'`
 ;;
esac

@end
: a little sanity check here
case "$phostname" in
") ;;
*)
 case `$phostname | ./tr '[A-Z]' '[a-z]'` in
 $myhostname$mydomain|$myhostname) ;;
 *)
  case "$phostname" in
  sed*)
   echo "(That doesn't agree with your whoami.h file, by the way.)"
   ;;
  *)
   echo "(That doesn't agree with your $phostname command, by the way.)"
   ;;
  esac
 ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/myhostname.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_setitimer: Inlibc
?MAKE: -pick add $@ %<
?S:d_setitimer:
?S: This variable conditionally defines the HAS_SETITIMER symbol, which
?S: indicates to the C program that the setitimer() routine is available.
?S:.
?C:HAS_SETITIMER:
```

```
?C: This symbol, if defined, indicates that the setitimer routine is
?C: available to set interval timers.
?C:.
?H:#$d_setitimer HAS_SETITIMER  /**/
?H:.
?LINT:set d_setitimer
: see if setitimer exists
set setitimer d_setitimer
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_setitimer.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_sresuproto: Hasproto i_unistd
?MAKE: -pick add $@ %<
?S:d_sresuproto:
?S: This variable conditionally defines the HAS_SETRESUID_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the setresuid() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_SETRESUID_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the setresuid() function.  Otherwise, it is up
?C: to the program to supply one.  Good guesses are
?C:  extern
 int setresuid(uid_t ruid, uid_t euid, uid_t suid);
?C:.
?H:#$d_sresuproto HAS_SETRESUID_PROTO /**/
?H:.
?LINT:set d_sresuproto
: see if prototype for setresuid is available
echo " "
set d_sresuproto setresuid $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_sresuproto.U
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```
?RCS: $Id: i_vfork.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_vfork.U,v $
?RCS: Revision 3.0.1.1  1994/05/06  15:05:44  ram
?RCS: patch23: avoid inclusion of <vfork.h> if no vfork() used (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_vfork: Inhdr d_vfork
?MAKE: -pick add $@ %<
?S:i_vfork:
?S: This variable conditionally defines the I_VFORK symbol, and indicates
?S: whether a C program should include vfork.h.
?S:.
?C:I_VFORK:
?C: This symbol,
 if defined, indicates to the C program that it should
?C: include vfork.h.
?C:.
?H:#$i_vfork I_VFORK /**/
?H:.
: see if this is a vfork system
case "$d_vfork" in
"$define")
 set vfork.h i_vfork
 eval $inhdr
 ;;
*)
 i_vfork="$undef"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/dist/U/i_vfork.U
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```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Config_h.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  14:57:43  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:10:49  ram
?RCS: patch59: commented the purpose of the #un-def directive
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:25:39  ram
?RCS: patch49: typo fixes in leading config.h comment (WED)
?RCS:
?RCS: Revision 3.0.1.2  1993/08/24  12:13:20  ram
?RCS: patch3: added TOP as a local shell temporary variable
?RCS:
?RCS: Revision 3.0.1.1  1993/08/19  06:42:20
  ram
?RCS: patch1: leading config.sh searching was not aborting properly
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file ends up producing the config_h.SH script, which is run to produce
?X: the config.h file.  The file ./.Config_h below contains all the ?H: lines
?X: extracted out of all the units.  Metaconfig itself adds the !GROK!THIS!.
?X: Note that this code isn't included into Configure, but must be shipped with.
?X:
?X: For those who wish to know why the file is config_h.SH instead of the more
?X: natural config.h.SH, well... it is to support systems like MS-DOG. Only one
?X: 'dot' is allowed within the file name, as it is part of the "extension" of
?X: the file. MS-DOG will not let you have two 'dots' because that would mean
?X: two "extensions".
?X:
?MAKE:Config_h: Id End Config_sh Obsol_h myuname cf_time cf_by package src
?MAKE: -pick c_h_weed $@ %<
?MAKE: -pick c_h_weed $@ ./Config_h
```

```
?MAKE: -pick
 c_h_weed $@ ./Obsol_h
?T:CONFIG TOP
?LINT:unclosed !GROK!THIS!
?LINT:extern CONFIG_H CONFIG_SH
?LINT:change CONFIG_H CONFIG_SH
?LINT:nocomment
case "$CONFIG_SH" in
") CONFIG_SH=config.sh;;
esac
case "$CONFIG_H" in
") CONFIG_H=config.h;;
esac
case $CONFIG in
")
 if test -f $CONFIG_SH; then TOP=.;
 elif test -f ../$CONFIG_SH; then TOP=..;
 elif test -f ../../$CONFIG_SH; then TOP=../..;
 elif test -f ../../../$CONFIG_SH; then TOP=../../..;
 elif test -f ../../../../$CONFIG_SH; then TOP=../../../..;
 else
  echo "Can't find $CONFIG_SH."; exit 1
 fi
 . $TOP/$CONFIG_SH
 ;;
esac
?X: Make sure we are in the directory where the .SH file is located.
case "$0" in
*/*) cd `expr X$0 : 'X\(.*\)/'` ;;
esac
echo "Extracting $CONFIG_H (with variable substitutions)"
?X:
?X: Since we unconditionally translate leading #undef into /*#define, we're
?X: stuck when we really want to have a #undef in config.h. That's why there
?X: is provision here for #un-def, which is translated back into #undef after
?X:
 all original #undef have been processed.
?X:
?X: Previously, we changed all
?X:  #undef FOO /**/
?X: into
?X:  /*#define FOO /**/
?X: The xlc compiler (available on IBM's AIX) complains that this is
?X: an illegal attempt to write a nested comment, and warns against it.
?X: There's apparently no way to shut the compiler up, either.
?X: This sed command from Hallvard B Furuseth <h.b.furuseth@usit.uio.no>
?X: changes it to
?X:  /*#define FOO / **/
```

```
sed <<!GROK!THIS! >$CONFIG_H -e 's!^#undef\(.*/\)\*!/\*#define\1 \*!' -e 's!^#un-def!#undef!'
/*
* This file was produced by running the config_h.SH script, which
* gets its values from $CONFIG_SH, which is generally produced by
* running Configure.
*
* Feel free to modify any of this as the need arises.  Note, however,
* that running config_h.SH again will wipe out any changes you've made.
* For a more permanent change edit $CONFIG_SH and rerun config_h.SH.
*
* \$Id: Config_h.U 1 2006-08-24 12:32:52Z rmanfredi $
*/

/*
* Package name
     : $package
* Source directory  : $src
* Configuration time: $cf_time
* Configured by     : $cf_by
* Target system     : $myuname
*/

#ifndef _config_h_
#define _config_h_
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Config_h.U
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```
?RCS: $Id: d_endprotoent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_endprotoent_r endprotoent_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_endprotoent_r:
?S: This variable conditionally defines the HAS_ENDPROTOENT_R symbol,
?S: which indicates to the C program that the endprotoent_r()
?S: routine is available.
?S:.
?S:endprotoent_r_proto:
?S: This variable encodes the prototype of endprotoent_r.
```

```
?S: It is zero if d_endprotoent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endprotoent_r
?S: is defined.
?S:.
?C:HAS_ENDPROTOENT_R:
?C: This symbol, if defined, indicates that the endprotoent_r
 routine
?C: is available to endprotoent re-entrantly.
?C:.
?C:ENDPROTOENT_R_PROTO:
?C: This symbol encodes the prototype of endprotoent_r.
?C: It is zero if d_endprotoent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endprotoent_r
?C: is defined.
?C:.
?H:#$d_endprotoent_r HAS_ENDPROTOENT_R /**/
?H:#define ENDPROTOENT_R_PROTO $endprotoent_r_proto /**/
?H:.
?T:try hdrs d_endprotoent_r_proto
: see if endprotoent_r exists
set endprotoent_r d_endprotoent_r
eval $inlibc
case "$d_endprotoent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_endprotoent_r_proto:$usethreads" in
 ":define") d_endprotoent_r_proto=define
  set d_endprotoent_r_proto endprotoent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_endprotoent_r_proto" in
 define)
 case "$endprotoent_r_proto" in
 "|0) try='int endprotoent_r(struct protoent_data*);'
 ./protochk "$extern_C $try" $hdrs && endprotoent_r_proto=I_D ;;
 esac
 case "$endprotoent_r_proto"
 in
 "|0) try='void endprotoent_r(struct protoent_data*);'
 ./protochk "$extern_C $try" $hdrs && endprotoent_r_proto=V_D ;;
 esac
 case "$endprotoent_r_proto" in
 "|0) d_endprotoent_r=undef
  endprotoent_r_proto=0
  echo "Disabling endprotoent_r, cannot determine prototype." >&4 ;;
 * ) case "$endprotoent_r_proto" in
  REENTRANT_PROTO*) ;;
```

```
  *) endprotoent_r_proto="REENTRANT_PROTO_$endprotoent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "endprotoent_r has no prototype, not using it." >&4 ;;
  esac
  d_endprotoent_r=undef
  endprotoent_r_proto=0
  ;;
 esac
 ;;
*) endprotoent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_endprotoent_r.U
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```
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```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/lib/errnolist.mk
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/files/fixcpp
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/bindex
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/makegloss
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fstatfs : Inlibc
?MAKE: -pick add $@ %<
?S:d_fstatfs:
?S: This variable conditionally defines the HAS_FSTATFS symbol, which
?S: indicates to the C program that the fstatfs() routine is available.
?S:.
```

```
?C:HAS_FSTATFS:
?C: This symbol, if defined, indicates that the fstatfs routine is
?C: available to stat filesystems by file descriptors.
?C:.
?H:#$d_fstatfs HAS_FSTATFS  /**/
?H:.
?LINT:set d_fstatfs
: see if fstatfs exists
set fstatfs d_fstatfs
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fstatfs.U
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```
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?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Csym.U,v $
?RCS: Revision 3.0.1.4  1995/07/25  13:36:29  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS: patch56: added quotes for OS/2 support
?RCS:
?RCS: Revision 3.0.1.3  1995/05/12  12:00:33  ram
?RCS: patch54: fixed C test program to bypass gcc builtin type checks (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/10/31  09:34:13  ram
?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:00:05  ram
?RCS:
 patch6: added ldflags as a conditional dependency and to compile line
?RCS: patch6: a final double quote was missing in csym variable after eval
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:Csym: Options contains libc libs runnm +cc +ccflags +ldflags rm
?MAKE: -pick add $@ %<
?LINT:define csym
```

```
?LINT:use libc
?S:csym:
?S: This shell variable is used internally by Configure to check
?S: wether a given C symbol is defined or not. A typical use is:
?S:  set symbol result [-fva] [previous]
?S:  eval $csym
?S: That will set result to 'true' if the function [-f], variable [-v]
?S: or array [-a] is defined, 'false' otherwise. If a previous value is
?S: given and the -r flag was provided on the command line, that value
?S: is reused without questioning.
?S:.
?V:csym
?T:tval tx tlook tf tdc tc
: is a C symbol defined?
csym='tlook=$1;
case "$3" in
-v) tf=libc.tmp; tc=""; tdc="";;
-a) tf=libc.tmp; tc="[0]"; tdc="[]";;
*) tlook="^$1\$";
 tf=libc.list; tc=""; tdc="()";;
esac;
tx=yes;
case "$reuseval-$4" in
true-) ;;
true-*) tx=no; eval "tval=\$$4"; case "$tval" in "") tx=yes;; esac;;
esac;
case "$tx" in
yes)
 case "$runnm" in
 true)
  if $contains $tlook $tf >/dev/null 2>&1;
  then tval=true;
  else tval=false;
  fi;;
 *)
?X:
?X: We use 'char' instead of 'int' to try to circumvent overzealous
?X: optimizing compilers using built-in prototypes for commonly used
?X: routines to complain when seeing a different external declaration. For
?X: instance, gcc 2.6.3 fails if we use 'int' and we attempt a test against
?X: memcpy() on machines where sizeof(int) == sizeof(char *) (the usual return
?X: type), the compiler assuming it's a built-in declaration given that the
?X: returned size matches. At least with 'char' we are safe! -- RAM, for ADO
?X:
?X: Let's thank GNU cc for making our lifes so easy! :-)
?X: (An alternative for the future would be to use our knowledge about gcc
?X: to force a -fno-builtin option in the
```

```
 compile test, in case the 'char'
?X: trick is obsoleted by future gcc releases). -- RAM
?X:
?X: Lastly, gcc 3.4 otimizes &missing == 0 away, so we use + 2 instead now.
?X: The GNU folks like to do weird things, don't they? -- RAM, 2004-06-05
?X:
  echo "extern char $1$tdc; int main() { return &$1$tc + 2; }" > t.c;
  if $cc $ccflags $ldflags -o t t.c $libs >/dev/null 2>&1;
  then tval=true;
  else tval=false;
  fi;
  $rm -f t t.c;;
 esac;;
*)
 case "$tval" in
 $define) tval=true;;
 *) tval=false;;
 esac;;
esac;
eval "$2=$tval"'
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Csym.U
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```
?RCS: $Id: vendorman1dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorman1dir.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorman1dir vendorman1direxp installvendorman1dir: man1dir Getfile \
 Oldconfig Setprefixvar Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorman1dir:
?S: This variable contains the name of the directory for man1
?S: pages.  It may have a ~ on the front.
?S: The standard distribution will put nothing in this directory.
```

```
?S: Vendors
 who distribute perl may wish to place their own
?S: man1 pages in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorman1direxp:
?S: This variable is the ~name expanded version of vendorman1dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorman1dir=''
?S:installvendorman1dir:
?S: This variable is really the same as vendorman1direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorman1dir
: Set the vendorman1dir variables
case "$vendorprefix" in
'') vendorman1dir=''
 vendorman1direxp=''
 ;;
*) : determine where vendor-supplied manual pages go.
 case "$vendorman1dir" in
 '') dflt=`echo "$man1dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
 *) dflt=$vendorman1dir ;;
 esac
 case "$dflt" in
 '|' ') dflt=none ;;
 esac
 fn=nd~+
 rp='Pathname for
 the vendor-supplied manual section 1 pages?'
 . ./getfile
 vendorman1dir="$ans"
 vendorman1direxp="$ansexp"
 ;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorman1dir" = "X" && vendorman1dir=' '
prefixvar=vendorman1dir
. ./installprefix
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/vendorman1dir.U

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```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fmin: Inlibc
?MAKE: -pick add $@ %<
?S:d_fmin:
?S: This variable conditionally defines the HAS_FMIN symbol, which
?S: indicates to the C program that the fmin() routine is available.
?S:.
?C:HAS_FMIN:
?C: This symbol, if defined, indicates that the fmin routine is
?C: available to do the minimum function.
?C:.
?H:#$d_fmin HAS_FMIN  /**/
?H:.
?LINT:set d_fmin
: see if fmin exists
set fmin d_fmin
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fmin.U
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```
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?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Tr.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  18:00:54  ram
?RCS: patch43: forgot to quote $@ to protect against "evil" characters
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:58:35  ram
?RCS: patch36: created
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to do a character translation. It catches translations to uppercase or
?X: to lowercase, and then invokes the real tr to perform the job.
```

```
?X:
?X: This unit is necessary on HP machines (HP strikes again!)
 with non-ascii
?X: ROMAN8-charset, where normal letters are not arranged in a row, so a-z
?X: covers not the whole alphabet but lots of special chars. This was reported
?X: by Andreas Sahlbach <a.sahlbach@tu-bs.de>.
?X:
?X: Units performing a tr '[A-Z]' '[a-z]' or the other way round should include
?X: us in their dependency and use ./tr instead.
?X:
?MAKE:Tr: startsh tr eunicefix
?MAKE: -pick add $@ %<
?F:./tr
?T:up low LC_ALL
: see whether [:lower:] and [:upper:] are supported character classes
echo " "
case "`echo AbyZ | LC_ALL=C $tr '[:lower:]' '[:upper:]' 2>/dev/null`" in
ABYZ)
 echo "Good, your tr supports [:lower:] and [:upper:] to convert case." >&4
 up='[:upper:]'
 low='[:lower:]'
 ;;
*) # There is a discontinuity in EBCDIC between 'I' and 'J'
       # (0xc9 and 0xd1), therefore that is a nice testing point.
       if test "X$up" = X -o "X$low" = X; then
     case "`echo IJ | LC_ALL=C $tr '[I-J]' '[i-j]' 2>/dev/null`" in
     ij) up='[A-Z]'
         low='[a-z]'
  ;;

 esac
       fi
 if test "X$up" = X -o "X$low" = X; then
     case "`echo IJ | LC_ALL=C $tr I-J i-j 2>/dev/null`" in
     ij) up='A-Z'
  low='a-z'
  ;;
     esac
       fi
 if test "X$up" = X -o "X$low" = X; then
     case "`echo IJ | od -x 2>/dev/null`" in
     *C9D1*|*c9d1*)
  echo "Hey, this might be EBCDIC." >&4
  if test "X$up" = X -o "X$low" = X; then
      case "`echo IJ | \
    LC_ALL=C $tr '[A-IJ-RS-Z]' '[a-ij-rs-z]' 2>/dev/null`" in
      ij) up='[A-IJ-RS-Z]'
          low='[a-ij-rs-z]'
```

```
  ;;
    esac
  fi
  if test "X$up" = X -o "X$low" = X; then
    case "`echo IJ | LC_ALL=C $tr A-IJ-RS-Z a-ij-rs-z 2>/dev/null`" in
    ij) up='A-IJ-RS-Z'
        low='a-ij-rs-z'
  ;;
    esac
  fi
  ;;
   esac
 fi
esac
case "`echo IJ | LC_ALL=C $tr \"$up\" \"$low\" 2>/dev/null`" in
ij)
  echo "Using $up and $low to convert case." >&4
  ;;
*)
  echo "I don't know how to translate letters from upper to lower case." >&4
  echo "Your tr is not acting any way I know of." >&4
   exit 1
  ;;
esac
: set up the translation script tr, must be called with ./tr of course
cat >tr <<EOSC
$startsh
case "\$1\$2" in
'[A-Z][a-z]') LC_ALL=C exec $tr '$up' '$low';;
'[a-z][A-Z]') LC_ALL=C exec $tr '$low' '$up';;
esac
LC_ALL=C exec $tr "\$@"
EOSC
chmod +x tr
$eunicefix tr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Tr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pwritev.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
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```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_pwritev.U,v $
?RCS:
?MAKE:d_pwritev: Inlibc
?MAKE: -pick add $@ %<
?S:d_pwritev:
?S: This variable conditionally defines the HAS_PWRITEV symbol, which
?S: indicates to the C program that the pwritev() routine is available.
?S:.
?C:HAS_PWRITEV :
?C: This symbol, if defined, indicates that the pwritev routine is
?C: available to perform vectored writes on a file descriptor at a
?C: given offset.
?C:.
?H:#$d_pwritev HAS_PWRITEV  /**/
?H:.
?LINT:set
 d_pwritev
: see if pwritev exists
set pwritev d_pwritev
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_pwritev.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_tcgtpgrp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_tcgtpgrp.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:12:08  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_tcgetpgrp: Inlibc
?MAKE: -pick add $@ %<
?S:d_tcgetpgrp:
```

```
?S: This variable conditionally defines the HAS_TCGETPGRP symbol, which
?S: indicates to the C program that the tcgetpgrp() routine is available.
?S: to get foreground process group ID.
?S:.
?C:HAS_TCGETPGRP
 :
?C: This symbol, if defined, indicates that the tcgetpgrp routine is
?C: available to get foreground process group ID.
?C:.
?H:#$d_tcgetpgrp HAS_TCGETPGRP  /**/
?H:.
?LINT:set d_tcgetpgrp
: see if tcgetpgrp exists
set tcgetpgrp d_tcgetpgrp
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_tcgtpgrp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Tr.U,v 3.0.1.2 1994/10/29 18:00:54 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Tr.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  18:00:54  ram
?RCS: patch43: forgot to quote $@ to protect against "evil" characters
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:58:35  ram
?RCS: patch36: created
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to do a character translation. It catches translations to uppercase or
?X: to lowercase, and then invokes the real tr to perform the job.
?X:
?X: This unit is necessary
 on HP machines (HP strikes again!) with non-ascii
?X: ROMAN8-charset, where normal letters are not arranged in a row, so a-z
?X: covers not the whole alphabet but lots of special chars. This was reported
?X: by Andreas Sahlbach <a.sahlbach@tu-bs.de>.
```

```
?X:
?X: Units performing a tr '[A-Z]' '[a-z]' or the other way round should include
?X: us in their dependency and use ./tr instead.
?X:
?MAKE:Tr: startsh tr eunicefix
?MAKE: -pick add $@ %<
?F:./tr
?T:up low
: see whether [:lower:] and [:upper:] are supported character classes
echo " "
case "`echo AbyZ | $tr '[:lower:]' '[:upper:]' 2>/dev/null`"-"`echo AbyZ | $tr '[:upper:]' '[:lower:]' 2>/dev/null`" in
ABYZ-abyz)
 echo "Good, your tr supports [:lower:] and [:upper:] to convert case." >&4
 up='[:upper:]'
 low='[:lower:]'
 ;;
*) # There is a discontinuity in EBCDIC between 'R' and 'S'
 # (0xd9 and 0xe2), therefore that is a nice testing point.
 if test "X$up" = X -o "X$low" = X; then
    case "`echo RS | $tr '[R-S]' '[r-s]' 2>/dev/null`"
 in
    rs) up='[A-Z]'
  low='[a-z]'
  ;;
    esac
 fi
 if test "X$up" = X -o "X$low" = X; then
    case "`echo RS | $tr R-S r-s 2>/dev/null`" in
    rs) up='A-Z'
  low='a-z'
  ;;
    esac
 fi
 if test "X$up" = X -o "X$low" = X; then
    case "`echo RS | od -x 2>/dev/null`" in
    *D9E2*|*d9e2*)
  echo "Hey, this might be EBCDIC." >&4
  if test "X$up" = X -o "X$low" = X; then
     case "`echo RS | $tr '[A-IJ-RS-Z]' '[a-ij-rs-z]' 2>/dev/null`" in
     rs) up='[A-IJ-RS-Z]'
   low='[a-ij-rs-z]'
   ;;
     esac
  fi
  if test "X$up" = X -o "X$low" = X; then
     case "`echo RS | $tr A-IJ-RS-Z a-ij-rs-z 2>/dev/null`" in
     rs) up='A-IJ-RS-Z'
   low='a-ij-rs-z'
```

```
   ;;
      esac
  fi
  ;;
     esac
 fi
esac
case "`echo RS | $tr \"$up\" \"$low\" 2>/dev/null`" in
rs)
   echo "Using $up and $low to convert case." >&4
   ;;
*)
   echo "I don't know how to translate letters from upper to lower case." >&4
   echo "Your tr is not acting any way I know of." >&4
   exit 1
   ;;
esac
:
 set up the translation script tr, must be called with ./tr of course
cat >tr <<EOSC
$startsh
case "\$1\$2" in
'[A-Z][a-z]') exec $tr '$up' '$low';;
'[a-z][A-Z]') exec $tr '$low' '$up';;
esac
exec $tr "\$@"
EOSC
chmod +x tr
$eunicefix tr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Tr.U
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```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: sizetype.U,v $
```

```
?RCS: Revision 3.0.1.1  1994/08/29  16:32:10  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:sizetype: Myread Typedef
?MAKE: -pick add $@ %<
?S:sizetype:
?S: This variable defines sizetype to be something like size_t,
?S: unsigned long, or whatever type is used to declare length
?S: parameters for string functions.
?S:.
?C:Size_t:
?C: This symbol holds the type used to declare length parameters
?C: for string
 functions.  It is usually size_t, but may be
?C: unsigned long, int, etc.  It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Size_t $sizetype  /* length paramater for string functions */
?H:.
: see what type is used for size_t
set size_t sizetype 'unsigned int' stdio.h sys/types.h
eval $typedef
dflt="$sizetype"
echo " "
rp="What type is used for the length parameter for string functions?"
. ./myread
sizetype="$ans"
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/sizetype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sanemcmp.U,v 3.0.1.1 1997/02/28 15:41:19 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_sanemcmp.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:41:19  ram
?RCS: patch61: created
?RCS:
?RCS:
```

```
?MAKE:d_sanemcmp: Compile cat d_memcmp rm_try run \
 i_memory i_stdlib i_string i_unistd Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_sanemcmp:
?S: This variable conditionally defines the HAS_SANE_MEMCMP symbol if
?S: the memcpy() routine is available and can be used to compare relative
?S: magnitudes of chars with their high bits set.
?S:.
?C:HAS_SANE_MEMCMP:
?C: This
 symbol, if defined, indicates that the memcmp routine is available
?C: and can be used to compare relative magnitudes of chars with their high
?C: bits set.  If it is not defined, roll your own version.
?C:.
?H:#$d_sanemcmp HAS_SANE_MEMCMP /**/
?H:.
?F:!try
?LINT: set d_sanemcmp
: can memcmp be trusted to compare relative magnitude?
?X: assume the worst
val="$undef"
case "$d_memcmp" in
"$define")
 echo " "
 echo "Checking if your memcmp() can compare relative magnitude..." >&4
 $cat >try.c <<EOCP
#$i_memory I_MEMORY
#$i_stdlib I_STDLIB
#$i_string I_STRING
#$i_unistd I_UNISTD
EOCP
 $cat >>try.c <<'EOCP'
#include <stdio.h>
#ifdef I_MEMORY
#  include <memory.h>
#endif
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#ifdef I_STRING
#  include <string.h>
#else
#  include <strings.h>
#endif
#ifdef I_UNISTD
#  include <unistd.h>  /* Needed for NetBSD */
#endif
int main()
```

```
{
char a = -1;
char b = 0;
if ((a < b) && memcmp(&a, &b, 1) < 0)
 exit(1);
exit(0);
}
EOCP
 set try
 if eval
 $compile_ok; then
  if $run ./try 2>/dev/null; then
   echo "Yes, it can."
   val="$define"
  else
   echo "No, it can't (it uses signed chars)."
  fi
 else
  echo "(I can't compile the test program, so we'll assume not...)"
 fi
 ;;
esac
$rm_try
set d_sanemcmp
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_sanemcmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtoll: Inlibc d_longlong Compile cat run
?MAKE: -pick add $@ %<
?S:d_strtoll:
?S: This variable conditionally defines the HAS_STRTOLL symbol, which
?S: indicates to the C program that the strtoll() routine is available.
?S:.
?C:HAS_STRTOLL:
?C: This symbol, if defined, indicates that the strtoll routine is
?C: available to convert strings to long longs.
?C:.
```

```
?H:#$d_strtoll HAS_STRTOLL  /**/
?H:.
?T:yyy
?F:!try
: see if strtoll exists
set strtoll d_strtoll
eval $inlibc

case "$d_longlong-$d_strtoll" in
"$define-$define")
 $cat <<EOM
Checking whether your strtoll() works okay...
EOM
 $cat >try.c <<'EOCP'
#include <errno.h>
#ifdef __hpux
#define strtoll __strtoll
#endif
#ifdef __EMX__
#define strtoll
 _strtoll
#endif
#include <stdio.h>
#include <stdlib.h>
static int bad = 0;
void check(const char *s, long long ell, int een) {
 long long gll;
 errno = 0;
 gll = strtoll(s, 0, 10);
 if (!((gll == ell) && (errno == een)))
  bad++;
}
int main() {
 check(" 1",                          1LL, 0);
 check(" 0",                          0LL, 0);
 check("-1",                         -1LL, 0);
 check("-9223372036854775808", -9223372036854775808LL, 0);
 check("-9223372036854775808", -9223372036854775808LL, 0);
 check(" 9223372036854775807",  9223372036854775807LL, 0);
 check("-9223372036854775808", -9223372036854775808LL, 0);
 check(" 9223372036854775808",  9223372036854775807LL, ERANGE);
 check("-9223372036854775809", -9223372036854775808LL, ERANGE);
 if (!bad)
  printf("ok\n");
}
EOCP
 set try
 if eval $compile; then
```

```
  yyy=`$run ./try`
  case "$yyy" in
  ok) echo "Your strtoll() seems to be working okay." ;;
  *) cat <<EOM >&4
Your strtoll() doesn't seem
 to be working okay.
EOM
     d_strtoll="$undef"
     ;;
  esac
 else
  echo "(I can't seem to compile the test program--assuming it doesn't)"
  d_strtoll="$undef"
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strtoll.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: manfmt.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: manfmt.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  16:11:57  ram
?RCS: patch61: don't ask for AFS when they choose to not install pages
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:16:52  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:39:20  ram
?RCS: patch49: new installmanfmt and AFS-lookup for formatted man pages
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS:
 Revision 3.0.1.2  1994/08/29  16:30:31  ram
?RCS: patch32: now uses installation prefix for default setting
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:09:22  ram
```

```
?RCS: patch10: allows for L1 man page extension (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:manfmt manfmtexp installmanfmt: Getfile Loc Oldconfig cat manext \
 spackage Prefixit prefixexp Prefixup afs test
?MAKE: -pick add $@ %<
?Y:TOP
?S:manfmt:
?S: This variable contains the name of the directory in which formatted
?S: manual pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command. Note
?S: that you may have to do ~name substitution. Use manfmtexp otherwise.
?S:.
?S:manfmtexp:
?S: This is the same as the manfmt variable, but is filename expanded
?S: at configuration time, for programs not willing to deal with it at
?S: run-time.
?S:.
?S:installmanfmt:
?S: This variable is really
 the same as manfmtexp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: mansrcexp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change manext
?T:lookpath
: determine where manual pages go
set manfmt manfmt
eval $prefixit
$cat <<EOM

$spackage has pre-formatted manual pages.  If you don't want these installed,
answer 'none' to the next question.

EOM
case "$manfmt" in
")
 lookpath="$prefixexp/catman/man1 $prefixexp/man/cat1"
 lookpath="$lookpath $prefixexp/catman/u_man/man1"
 lookpath="$lookpath $prefixexp/catman/l_man/man1"
 lookpath="$lookpath $prefixexp/catman/cat1 /usr/catman/local/man1"
 lookpath="$lookpath /usr/catman/manl /usr/man/cat1"
 lookpath="$lookpath /usr/catman/mann /usr/catman/l_man/man1"
 lookpath="$lookpath /usr/catman/u_man/man1 /usr/catman/man1"
 dflt=`./loc . none $lookpath`
```

```
 set dflt
 eval $prefixup
 ;;
*)  dflt="$manfmt"
 ;;
esac
fn=dn~
rp='Where
 do pre-formatted manual pages go?'
. ./getfile
if test "X$manfmtexp" != "X$ansexp"; then
 installmanfmt=''
fi
manfmt="$ans"
manfmtexp="$ansexp"
if $afs && $test "$manfmt"; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
manual pages reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installmanfmt" in
 '') dflt=`echo $manfmtexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installmanfmt";;
 esac
 fn=de~
 rp='Where will pre-formatted man pages be installed?'
 . ./getfile
 installmanfmt="$ans"
else
 installmanfmt="$manfmtexp"
fi

case "$manfmt" in
'') manext='0';;
*l) manext=l;;
*n) manext=n;;
*o) manext=l;;
*p) manext=n;;
*C) manext=C;;
*L) manext=L;;
*L1) manext=L1;;
*) manext=1;;
esac

Found in path(s):
```

* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/manfmt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpgid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getpgid.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:33:44  ram
?RCS: patch61: created
?RCS:
?MAKE:d_getpgid: Inlibc
?MAKE: -pick add $@ %<
?S:d_getpgid:
?S: This variable conditionally defines the HAS_GETPGID symbol, which
?S: indicates to the C program that the getpgid(pid) function
?S: is available to get the process group id.
?S:.
?C:HAS_GETPGID:
?C: This symbol, if defined, indicates to the C program
 that
?C: the getpgid(pid) function is available to get the
?C: process group id.
?C:.
?H:#$d_getpgid HAS_GETPGID  /**/
?H:.
?LINT:set d_getpgid
: see if getpgid exists
set getpgid d_getpgid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getpgid.U
No license file was found, but licenses were detected in source scan.

```
case $CONFIG in
")
 if test -f config.sh; then TOP=.;
 elif test -f ../config.sh; then TOP=..;
```

```
 elif test -f ../../config.sh; then TOP=../..;
 elif test -f ../../../config.sh; then TOP=../../..;
 elif test -f ../../../../config.sh; then TOP=../../../..;
 else
  echo "Can't find config.sh."; exit 1
 fi
 . $TOP/config.sh
 ;;
esac
case "$0" in
*/*) cd `expr X$0 : 'X\(.*\)/'` ;;
esac
echo "Extracting makedir (with variable substitutions)"
$spitshell >makedir <<!GROK!THIS!
$startsh
# $Id: makedir.sh,v 3.0.1.1 1994/01/24 14:00:08 ram Exp ram $
#
#  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
#
#  You may redistribute only under the terms of the Artistic Licence,
#  as specified in the README file that comes with the distribution.
#  You may reuse parts of this distribution only within the terms of
#  that same Artistic Licence; a copy of which may be found at the root
#  of the source tree for dist 4.0.
#
# Original
 Author: Larry Wall <lwall@netlabs.com>
#
# $Log: makedir.sh,v $
# Revision 3.0.1.1  1994/01/24  14:00:08  ram
# patch16: changed top ln-style config.sh lookup into test-style one
#
# Revision 3.0  1993/08/18  12:04:38  ram
# Baseline for dist 3.0 netwide release.
#

export PATH || (echo "OOPS, this isn't sh.  Desperation time.  I will feed myself to sh."; sh \$0; kill \$\$)

case \$# in
 0)
   $echo "makedir pathname filenameflag"
   exit 1
   ;;
esac

: guarantee one slash before 1st component
case \$1 in
 /*) ;;
```

```
 *)  set ./\$1 \$2 ;;
esac

: strip last component if it is to be a filename
case X\$2 in
 X1) set \`$echo \$1 | $sed 's:\(.*\)/[^/]*\$:\1:'\` ;;
 *)  set \$1 ;;
esac

: return reasonable status if nothing to be created
if $test -d "\$1" ; then
   exit 0
fi

list=''
while true ; do
   case \$1 in
   */*)
 list="\$1 \$list"
 set \`echo \$1 | $sed 's:\(.*\)/:\1 :'\`
 ;;
   *)
 break
 ;;
   esac
done

set \$list

for dir do
   $mkdir \$dir >/dev/null 2>&1
done
!GROK!THIS!
$eunicefix
 makedir
chmod +x makedir
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/lib/makedir.SH
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_poll.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
?MAKE:i_poll: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_poll:
?S: This variable conditionally defines the I_POLL symbol, and indicates
?S: whether a C program should include <poll.h>.
?S:.
?C:I_POLL:
?C: This symbol, if defined, indicates that <poll.h> exists and
?C: should be included. (see also HAS_POLL)
?C:.
?H:#$i_poll I_POLL  /**/
?H:.
?LINT:set i_poll
: see if this is a poll.h system
set poll.h i_poll
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_poll.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pipe.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_pipe.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:11:44  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_pipe: Inlibc
?MAKE: -pick add $@ %<
?S:d_pipe:
?S: This variable conditionally defines the HAS_PIPE symbol, which
?S: indicates to the C program that the pipe() routine is available
?S: to create an inter-process channel.
?S:.
?C:HAS_PIPE :
?C: This symbol, if defined, indicates
```

```
 that the pipe routine is
?C: available to create an inter-process channel.
?C:.
?H:#$d_pipe HAS_PIPE  /**/
?H:.
?LINT:set d_pipe
: see if pipe exists
set pipe d_pipe
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_pipe.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?MAKE:run to from targetarch usecrosscompile: src awk cat grep test rm \
 echo sed mkdir cp touch chmod
?MAKE: -pick add $@ %<
?Y:TOP
?S:usecrosscompile:
?S: This variable conditionally defines the USE_CROSS_COMPILE symbol,
?S: and indicates that our package has been cross-compiled.
?S:.
?S:run:
?S: This variable contains the command used by Configure
?S: to copy and execute a cross-compiled executable in the
?S: target host.  Useful and available only during
 the build.
?S: Empty string '' if not cross-compiling.
?S:.
?S:from:
?S: This variable contains the command used by Configure
?S: to copy files from the target host.  Useful and available
?S: only during the build.
?S: The string ':' if not cross-compiling.
?S:.
```

```
?S:to:
?S: This variable contains the command used by Configure
?S: to copy to from the target host.  Useful and available
?S: only during the build.
?S: The string ':' if not cross-compiling.
?S:.
?S:targetarch:
?S: If cross-compiling, this variable contains the target architecture.
?S: If not, this will be empty.
?S:.
?C:USE_CROSS_COMPILE:
?C: This symbol, if defined, indicates that the package is being
?C: cross-compiled.
?C:.
?C:CROSS_TARGET_ARCH:
?C: This symbol, if defined, indicates the target architecture
?C: the package has been cross-compiled to.
?C: Undefined if not a cross-compile.
?C:.
?H:?usecrosscompile:#ifndef USE_CROSS_COMPILE
?H:?usecrosscompile:#$usecrosscompile USE_CROSS_COMPILE /**/
?H:?usecrosscompile:#define
 CROSS_TARGET_ARCH "$targetarch" /**/
?H:?usecrosscompile:#endif
?H:.
?T:croak pwd exe f q i j cwd
?LINT:extern usecrosscompile
?LINT:extern cc
?LINT:extern usrinc
?LINT:change usrinc
?LINT:change ar
?LINT:change nm
?LINT:change ranlib
?LINT:extern targethost
?LINT:extern targetdir
?LINT:change targetdir
?LINT:extern targetuser
?LINT:change targetuser
?LINT:extern targetrun
?LINT:extern targetfrom
?LINT:extern targetto
?LINT:extern targetmkdir
?LINT:change targetrun
?LINT:change targetfrom
?LINT:change targetto
?LINT:change targetmkdir
?LINT:extern incpth
?LINT:extern libpth
```

```
?LINT:change incpth
?LINT:change libpth
?LINT:extern locincpth
?LINT:extern loclibpth
?LINT:change locincpth
?LINT:change loclibpth
?LINT:extern TMPDIR
: setup for possible cross-compilation
run=''
to=:
from=:
usecrosscompile='undef'
targetarch=''
case "$usecrosscompile" in
$define|true|[yY]*)
@if { test -d ../Cross }
?X:
?X: Cross-compilation is enabled when there is a 'Cross' directory found
?X: at the root
 of the package.  This directory must contain the following
?X: entries for defining the cross-compilation process:
?X:
?X: FIXME FIXME
?X: WE MUST DISTINGUISH BETWEEN LOCAL cross-compiling AND REMOTE ONE
?X: ACTUALLY, REMOTE COMPILATION SHOULD BE CONFIGURED INTERACTIVELY
?X: IT WILL COPY ALL THE FILES FROM THE MANIFEST DOWN TO THE REMOTE DIR...
?X: (and copy things like 'mkdep', etc...)
?X:
 $echo "Cross-compiling..."
 croak=''
 case "$cc" in
 *-*-gcc)
?X: A cross-compiling gcc, probably.
    targetarch=`$echo $cc|$sed 's/-gcc$//'`
    ar=$targetarch-ar
?X: leave out ld, choosing it is more complex
    nm=$targetarch-nm
    ranlib=$targetarch-ranlib
    $echo 'extern int foo;' > try.c
    set X `$cc -v -E try.c 2>&1 | \
   $awk '/^#include </,/^End of search /'|$grep '/include'`
    shift
  if $test $# -gt 0; then
        incpth="$incpth $*"
   incpth="`$echo $incpth|$sed 's/^ //'`"
   echo "Guessing incpth '$incpth'." >&4
   for i in $*; do
    j="`$echo $i|$sed 's,/include$,/lib,'`"
```

```
   if
$test -d $j; then
    libpth="$libpth $j"
   fi
  done
  libpth="`$echo $libpth|$sed 's/^ //'`"
  echo "Guessing libpth '$libpth'." >&4
    fi
    $rm -f try.c
    ;;
esac
case "$targetarch" in
") echo "Targetarch not defined." >&4; croak=y ;;
*)  echo "Using targetarch $targetarch." >&4 ;;
esac
case "$incpth" in
") echo "Incpth not defined." >&4; croak=y ;;
*)  echo "Using incpth '$incpth'." >&4 ;;
esac
case "$libpth" in
") echo "Libpth not defined." >&4; croak=y ;;
*)  echo "Using libpth '$libpth'." >&4 ;;
esac
case "$usrinc" in
")
 for i in $incpth; do
  if $test -f $i/errno.h -a -f $i/stdio.h -a -f $i/time.h; then
   usrinc=$i
   echo "Guessing usrinc $usrinc." >&4
   break
  fi
    done
    case "$usrinc" in
    ") echo "Usrinc not defined." >&4; croak=y ;;
    esac
 ;;
*)  echo "Using usrinc $usrinc." >&4 ;;
esac
case "$targethost" in
") echo "Targethost not defined." >&4; croak=y ;;
*)  echo "Using targethost $targethost."
>&4
esac
locincpth=' '
loclibpth=' '
case "$croak" in
y) echo "Cannot continue, aborting." >&4; exit 1 ;;
esac
```

```
 case "$src" in
 /*) run=$src/Cross/run
     targetmkdir=$src/Cross/mkdir
     to=$src/Cross/to
     from=$src/Cross/from
     ;;
 *)  pwd=`$test -f ../Configure & cd ..; pwd`
     run=$pwd/Cross/run
     targetmkdir=$pwd/Cross/mkdir
     to=$pwd/Cross/to
     from=$pwd/Cross/from
     ;;
 esac
 case "$targetrun" in
 ") targetrun=ssh ;;
 esac
 case "$targetto" in
 ") targetto=scp ;;
 esac
 case "$targetfrom" in
 ") targetfrom=scp ;;
 esac
 run=$run-$targetrun
 to=$to-$targetto
 from=$from-$targetfrom
 case "$targetdir" in
 ")
  targetdir="${TMPDIR:-/tmp}"
  echo "Guessing targetdir $targetdir." >&4
  ;;
 esac
 case "$targetuser" in
 ")
  targetuser=root
  echo "Guessing targetuser $targetuser." >&4
  ;;
 esac
 case "$targetfrom" in
 scp) q=-q ;;
 *) q=" ;;
 esac
 case "$targetrun" in
 ssh|rsh)
  $cat >$run <<EOF
#!/bin/sh
case "\$1" in
-cwd)
 shift
```

```
 cwd=\$1
  shift
 ;;
esac
case "\$cwd" in
") cwd=$targetdir ;;
esac
exe=\$1
shift
if $test ! -f \$exe.xok; then
 $to \$exe
 $touch \$exe.xok
fi
$targetrun -l $targetuser $targethost "cd \$cwd && ./\$exe \$@"
EOF
  ;;
 *)  echo "Unknown targetrun '$targetrun'" >&4
     exit 1
     ;;
 esac
 case "$targetmkdir" in
 */Cross/mkdir)
  $cat >$targetmkdir <<EOF
#!/bin/sh
$targetrun -l $targetuser $targethost "mkdir -p \$@"
EOF
     $chmod a+rx $targetmkdir
     ;;
 *)  echo "Unknown targetmkdir '$targetmkdir'" >&4
     exit 1
     ;;
 esac
 case "$targetto" in
 scp|rcp)
     $cat >$to <<EOF
#!/bin/sh
for f in \$@
do
 case "\$f" in
 /*)
   $targetmkdir \`dirname \$f\`
   $targetto $q \$f $targetuser@$targethost:\$f            || exit 1
   ;;
 *)
   $targetmkdir $targetdir/\`dirname \$f\`
   $targetto $q \$f $targetuser@$targethost:$targetdir/\$f || exit 1
   ;;
 esac
```

```
done
exit 0
EOF
     ;;
 cp) $cat >$to <<EOF
#!/bin/sh
for f in \$@
do
 case "\$f" in
 /*)
   $mkdir -p $targetdir/\`dirname
 \$f\`
   $cp \$f $targetdir/\$f || exit 1
   ;;
 *)
   $targetmkdir $targetdir/\`dirname \$f\`
   $cp \$f $targetdir/\$f || exit 1
   ;;
 esac
done
exit 0
EOF
     ;;
 *)  echo "Unknown targetto '$targetto'" >&4
     exit 1
     ;;
 esac
 case "$targetfrom" in
 scp|rcp)
   $cat >$from <<EOF
#!/bin/sh
for f in \$@
do
 $rm -f \$f
 $targetfrom $q $targetuser@$targethost:$targetdir/\$f . || exit 1
done
exit 0
EOF
     ;;
 cp) $cat >$from <<EOF
#!/bin/sh
for f in \$@
do
 $rm -f \$f
 cp $targetdir/\$f . || exit 1
done
exit 0
EOF
```

```
    ;;
 *)  echo "Unknown targetfrom '$targetfrom'" >&4
    exit 1
    ;;
 esac
 if $test ! -f $run; then
    echo "Target 'run' script '$run' not found." >&4
 else
    $chmod a+rx $run
 fi
 if $test ! -f $to; then
    echo "Target 'to' script '$to' not found." >&4
 else
    $chmod a+rx $to
 fi
 if $test ! -f $from; then
    echo "Target 'from' script '$from' not found." >&4
 else
    $chmod a+rx $from
 fi
 if $test ! -f $run -o ! -f $to -o !
 -f $from; then
    exit 1
 fi
 $cat >&4 <<EOF
Using '$run' for remote execution,
and '$from' and '$to'
for remote file transfer.
EOF
@else
 echo "Cross-compilation is not supported for this package." >&4
 exit 1
@end
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Cross.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:sitehtml3dir sitehtml3direxp installsitehtml3dir: Getfile \
 Setprefixvar prefix siteprefix html3dir sed
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitehtml3dir=''
?S:sitehtml3dir:
?S: This variable contains the name of the directory in which site-specific
?S: library html source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S: The standard distribution will put nothing in this directory.
?S: After
 perl has been installed, users may install their own local
?S: library html pages in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitehtml3direxp=''
?S:sitehtml3direxp:
?S: This variable is the same as the sitehtml3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsitehtml3dir=''
?S:installsitehtml3dir:
?S: This variable is really the same as sitehtml3direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: html3direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installsitehtml3dir
?LINT:set sitehtml3dir
?LINT:set sitehtml3direxp
: determine where add-on library html pages go
: There is no standard location, so try to copy the previously-selected
: directory structure for the core html pages.
case
 "$sitehtml3dir" in
")    dflt=`echo "$html3dir" | $sed "s#^$prefix#$siteprefix#"` ;;
*)     dflt=$sitehtml3dir ;;
esac
case "$dflt" in
"|' ') dflt=none ;;
esac
fn=dn+~
```

```
rp='Pathname where the site-specific library html pages should be installed?'
. ./getfile
prefixvar=sitehtml3dir
. ./setprefixvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/sitehtml3dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endpwent.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_endpwent.U,v $
?RCS:
?MAKE:d_endpwent: Inlibc
?MAKE: -pick add $@ %<
?S:d_endpwent:
?S: This variable conditionally defines the HAS_ENDPWENT symbol, which
?S: indicates to the C program that the endpwent() routine is available
?S: for sequential access of the passwd database.
?S:.
?C:HAS_ENDPWENT:
?C: This symbol, if defined, indicates that the endpwent routine is
?C: available for finalizing sequential access of the passwd database.
?C:.
?H:#$d_endpwent HAS_ENDPWENT  /**/
?H:.
?LINT:set d_endpwent
: see if endpwent exists
set endpwent d_endpwent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_endpwent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: nblock_io.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:17:14  ram
?RCS: patch61: simplify here document for shells that can't handle them well
?RCS: patch61: force use of "startsh" at the head of the generated script
?RCS: patch61: added new files to the ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  14:13:22  ram
?RCS: patch56: created
?RCS:
?X:
?X: Simplify here document for shells that can't handle them well.
?X: (Problem reported on FreeBSD; it's unclear if this helps.)  --AD
?X:
?MAKE:o_nonblock
 eagain rd_nodata d_eofnblk: cat rm_try +cc +ccflags +ldflags \
 d_open3 h_sysfile h_fcntl signal_t hint Oldconfig Setvar startsh Warn
?MAKE: -pick add $@ %<
?S:o_nonblock:
?S: This variable bears the symbol value to be used during open() or fcntl()
?S: to turn on non-blocking I/O for a file descriptor. If you wish to switch
?S: between blocking and non-blocking, you may try ioctl(FIOSNBIO) instead,
?S: but that is only supported by some devices.
?S:.
?S:eagain:
?S: This variable bears the symbolic errno code set by read() when no
?S: data is present on the file and non-blocking I/O was enabled (otherwise,
?S: read() blocks naturally).
?S:.
?S:rd_nodata:
?S: This variable holds the return code from read() when no data is
?S: present. It should be -1, but some systems return 0 when O_NDELAY is
?S: used, which is a shame because you cannot make the difference between
?S: no data and an EOF.. Sigh!
?S:.
?S:d_eofnblk:
?S: This variable conditionally defines EOF_NONBLOCK
 if EOF can be seen
?S: when reading from a non-blocking I/O source.
?S:.
?C:VAL_O_NONBLOCK:
?C: This symbol is to be used during open() or fcntl(F_SETFL) to turn on
?C: non-blocking I/O for the file descriptor. Note that there is no way
?C: back, i.e. you cannot turn it blocking again this way. If you wish to
?C: alternatively switch between blocking and non-blocking, use the
```

```
?C: ioctl(FIOSNBIO) call instead, but that is not supported by all devices.
?C:.
?C:VAL_EAGAIN:
?C: This symbol holds the errno error code set by read() when no data was
?C: present on the non-blocking file descriptor.
?C:.
?C:RD_NODATA:
?C: This symbol holds the return code from read() when no data is present
?C: on the non-blocking file descriptor. Be careful! If EOF_NONBLOCK is
?C: not defined, then you can't distinguish between no data and EOF by
?C: issuing a read(). You'll have to find another way to tell for sure!
?C:.
?C:EOF_NONBLOCK:
?C: This symbol, if defined, indicates to the C program that a read() on
?C: a
 non-blocking file descriptor will return 0 on EOF, and not the value
?C: held in RD_NODATA (-1 usually, in that case!).
?C:.
?H:#define VAL_O_NONBLOCK $o_nonblock
?H:#define VAL_EAGAIN $eagain
?H:#define RD_NODATA $rd_nodata
?H:#$d_eofnblk EOF_NONBLOCK
?H:.
?F:!try !try.out !try.ret !try.err !mtry
?T:status
?LINT:use d_open3
: check for non-blocking I/O stuff
case "$h_sysfile" in
true) echo "#include <sys/file.h>" > head.c;;
*)
 case "$h_fcntl" in
 true) echo "#include <fcntl.h>" > head.c;;
 *) echo "#include <sys/fcntl.h>" > head.c;;
 esac
 ;;
esac
echo " "
echo "Figuring out the flag used by open() for non-blocking I/O..." >&4
case "$o_nonblock" in
")
 $cat head.c > try.c
 $cat >>try.c <<'EOCP'
int main() {
#ifdef O_NONBLOCK
 printf("O_NONBLOCK\n");
 exit(0);
#endif
#ifdef O_NDELAY
```

```
 printf("O_NDELAY\n");
 exit(0);
#endif
?X: Stevens "Advanced Programming in the UNIX Environment" page 364 mentions
?X: the FNDELAY symbol, used in 4.33BSD (source: Paul Marquess).
#ifdef FNDELAY
 printf("FNDELAY\n");
 exit(0);
#endif
 exit(0);
}
EOCP
 if
 $cc $ccflags $ldflags -o try try.c >/dev/null 2>&1; then
  o_nonblock=`./try`
  case "$o_nonblock" in
  ") echo "I can't figure it out, assuming O_NONBLOCK will do.";;
  *) echo "Seems like we can use $o_nonblock.";;
  esac
 else
  echo "(I can't compile the test program; pray O_NONBLOCK is right!)"
 fi
 ;;
*) echo "Using $hint value $o_nonblock.";;
esac
$rm_try

echo " "
echo "Let's see what value errno gets from read() on a $o_nonblock file..." >&4
case "$eagain" in
")
 $cat head.c > try.c
 $cat >>try.c <<EOCP
#include <errno.h>
#include <sys/types.h>
#include <signal.h>
#define MY_O_NONBLOCK $o_nonblock
extern int errno;
$signal_t blech(x) int x; { exit(3); }
EOCP
 $cat >> try.c <<'EOCP'
int main()
{
 int pd[2];
 int pu[2];
 char buf[1];
 char string[100];
```

```
 pipe(pd); /* Down: child -> parent */
 pipe(pu); /* Up: parent -> child */
 if (0 != fork()) {
  int ret;
  close(pd[1]); /* Parent reads from pd[0] */
  close(pu[0]); /*
 Parent writes (blocking) to pu[1] */
  if (-1 == fcntl(pd[0], F_SETFL, MY_O_NONBLOCK))
   exit(1);
  signal(SIGALRM, blech);
  alarm(5);
  if ((ret = read(pd[0], buf, 1)) > 0) /* Nothing to read! */
   exit(2);
  sprintf(string, "%d\n", ret);
  write(2, string, strlen(string));
  alarm(0);
#ifdef EAGAIN
  if (errno == EAGAIN) {
   printf("EAGAIN\n");
   goto ok;
  }
#endif
#ifdef EWOULDBLOCK
  if (errno == EWOULDBLOCK)
   printf("EWOULDBLOCK\n");
#endif
 ok:
  write(pu[1], buf, 1); /* Unblocks child, tell it to close our pipe */
  sleep(2);    /* Give it time to close our pipe */
  alarm(5);
  ret = read(pd[0], buf, 1); /* Should read EOF */
  alarm(0);
  sprintf(string, "%d\n", ret);
  write(3, string, strlen(string));
  exit(0);
 }

 close(pd[0]);   /* We write to pd[1] */
 close(pu[1]);   /* We read from pu[0] */
 read(pu[0], buf, 1); /* Wait for parent to signal us we may continue */
 close(pd[1]);   /* Pipe pd is now fully closed! */
 exit(0);    /* Bye bye, thank you for playing!
 */
}
EOCP
 if $cc $ccflags $ldflags -o try try.c >/dev/null 2>&1; then
?X: Use script to avoid the possible 'alarm call' message
  echo "$startsh" >mtry
```

```
 echo "./try >try.out 2>try.ret 3>try.err || exit 4" >>mtry
 chmod +x mtry
 ./mtry >/dev/null 2>&1
 case $? in
 0) eagain=`$cat try.out`;;
 1) echo "Could not perform non-blocking setting!";;
 2) echo "I did a successful read() for something that was not there!";;
 3) echo "Hmm... non-blocking I/O does not seem to be working!";;
 *) echo "Something terribly wrong happened during testing.";;
 esac
 rd_nodata=`$cat try.ret`
 echo "A read() system call with no data present returns $rd_nodata."
 case "$rd_nodata" in
 0|-1) ;;
 *)
  echo "(That's peculiar, fixing that to be -1.)"
  rd_nodata=-1
  ;;
 esac
 case "$eagain" in
 ")
  echo "Forcing errno EAGAIN on read() with no data available."
  eagain=EAGAIN
  ;;
 *)
  echo "Your read() sets errno to $eagain when no data is available."
  ;;
 esac
 status=`$cat
try.err`
 case "$status" in
 0) echo "And it correctly returns 0 to signal EOF.";;
 -1) echo "But it also returns -1 to signal EOF, so be careful!";;
 *) echo "However, your read() returns '$status' on EOF??";;
 esac
 val="$define"
 if test "$status" = "$rd_nodata"; then
  ./warn "your read() can't distinguish between EOF and no data!"
  val="$undef"
 fi
else
 echo "I can't compile the test program--assuming errno EAGAIN will do."
 eagain=EAGAIN
fi
set d_eofnblk
eval $setvar
;;
*)
```

```
 echo "Using $hint value $eagain."
 echo "Your read() returns $rd_nodata when no data is present."
 case "$d_eofnblk" in
 "$define") echo "And you can see EOF because read() returns 0.";;
 "$undef") echo "But you can't see EOF status from read() returned value.";;
 *)
?X: Should not happen, but if it does, assume the worst!
  echo "(Assuming you can't see EOF status from read anyway.)"
  d_eofnblk=$undef
  ;;
 esac
 ;;
esac
$rm_try head.c mtry
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/nblock_io.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_ilogbl: Inlibc
?MAKE: -pick add $@ %<
?S:d_ilogbl:
?S: This variable conditionally defines the HAS_ILOGBL symbol, which
?S: indicates to the C program that the ilogbl() routine is available
?S: for extracting the exponent of long double x as a signed integer.
?S: If scalbnl is also present we can emulate frexpl.
?S:.
?C:HAS_ILOGBL:
?C: This symbol, if defined, indicates that the ilogbl routine is
?C: available.  If scalbnl is also present we can emulate frexpl.
?C:.
?H:#$d_ilogbl HAS_ILOGBL  /**/
?H:.
?LINT:set d_ilogbl
: see if ilogbl exists
set ilogbl d_ilogbl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/perl/d_ilogbl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_lseekproto: Hasproto i_systypes i_unistd
?MAKE: -pick add $@ %<
?S:d_lseekproto:
?S: This variable conditionally defines the HAS_LSEEK_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the lseek() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_LSEEK_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the lseek() function.  Otherwise, it is up
?C: to the program to supply one.  A good guess is
?C:  extern
 off_t lseek(int, off_t, int);
?C:.
?H:#$d_lseekproto HAS_LSEEK_PROTO /**/
?H:.
?LINT:set d_lseekproto
: see if prototype for lseek is available
echo " "
set d_lseekproto lseek $i_systypes sys/types.h $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/d_lseekproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_time.U,v 3.0 1993/08/18 12:08:45 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: i_time.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit finds which "time" include to use. If 'timezone' is used by the
?X: program, we also try to find which header should be included. Eventually,
?X: we look for <sys/select.h> if I_SYSSELECT is used, to get struct timeval.
?X:
?MAKE:i_time i_systime i_systimek timeincl d_tm_tm_zone d_tm_tm_gmtoff: \
 Compile cat \
 contains rm_try echo n
 c +i_sysselct Findhdr Hasfield i_stdlib
?MAKE: -pick add $@ %<
?S:i_time:
?S: This variable unconditionally defines I_TIME, which indicates
?S: to the C program that it should include <time.h>.
?S:.
?S:i_systime:
?S: This variable conditionally defines I_SYS_TIME, which indicates
?S: to the C program that it should include <sys/time.h>.
?S:.
?S:i_systimek:
?S: This variable conditionally defines I_SYS_TIME_KERNEL, which
?S: indicates to the C program that it should include <sys/time.h>
?S: with KERNEL defined.
?S:.
?S:timeincl:
?S: This variable holds the full path of the included time header(s).
?S:.
?S:d_tm_tm_zone:
?S: This variable conditionally defines HAS_TM_TM_ZONE, which indicates
?S: to the C program that the struct tm has the tm_zone field.
?S:.
?S:d_tm_tm_gmtoff:
?S: This variable conditionally defines HAS_TM_TM_GMTOFF, which indicates
?S: to the C program that the struct tm has the tm_gmtoff field.
?S:.
?C:I_TIME (USE_TIME_H):
?C: This symbol is always defined, and indicates
 to the C program that
?C: it should include <time.h>.
?C:.
?C:I_SYS_TIME (I_SYSTIME USE_SYS_TIME_H NO_TIME_WITH_SYS_TIME):
?C: This symbol, if defined, indicates to the C program that it should
```

```
?C: include <sys/time.h>.
?C:.
?C:I_SYS_TIME_KERNEL (I_SYSTIMEKERNEL):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/time.h> with KERNEL defined.
?C:.
?C:HAS_TM_TM_ZONE:
?C: This symbol, if defined, indicates to the C program that
?C: the struct tm has a tm_zone field.
?C:.
?C:HAS_TM_TM_GMTOFF:
?C: This symbol, if defined, indicates to the C program that
?C: the struct tm has a tm_gmtoff field.
?C:.
?H:#$i_time I_TIME  /**/
?H:#$i_systime I_SYS_TIME  /**/
?H:#$i_systimek I_SYS_TIME_KERNEL  /**/
?H:#$d_tm_tm_zone HAS_TM_TM_ZONE  /**/
?H:#$d_tm_tm_gmtoff HAS_TM_TM_GMTOFF  /**/
?H:.
?W::timezone
?T:xselect flags sysselect s_timeval s_timezone
?LINT:change i_sysselct
?LINT:set d_tm_tm_zone
?LINT:set d_tm_tm_gmtoff
: see if we should include sys/time.h
echo
 " "
i_time='define'
if test "X$timeincl" = X; then
 echo "Testing to see if we should include <sys/time.h>." >&4
 $echo $n "I'm now running the test program...$c"
 $cat >try.c <<EOCP
#include <sys/types.h>
#include <time.h>
#ifdef I_SYSTIME
#ifdef SYSTIMEKERNEL
#define KERNEL
#endif
#include <sys/time.h>
#endif
#ifdef I_SYSSELECT
#include <sys/select.h>
#endif
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
```

```
int main()
{
 struct tm foo;
#ifdef S_TIMEVAL
 struct timeval bar;
#endif
#ifdef S_TIMEZONE
 struct timezone tzp;
#endif
 if (foo.tm_sec == foo.tm_sec)
  exit(0);
#ifdef S_TIMEVAL
 if (bar.tv_sec == bar.tv_sec)
  exit(0);
#endif
 exit(1);
}
EOCP
 flags=''
@if I_SYSSELECT
 if $contains 'timeval.*{' `./findhdr sys/select.h` >/dev/null 2>&1; then
  xselect='-DI_SYSSELECT'
 else
  xselect=''
 fi
@end
@if timezone
 for s_timezone in '-DS_TIMEZONE' ''; do
@else
 s_timezone=''
@end
?X: Every package is given a try with 'struct timeval'
@if I_SYSSELECT
 for sysselect in $xselect
 ''; do
@else
 sysselect=''
@end
 for s_timeval in '-DS_TIMEVAL' ''; do
 for i_systimek in '' '-DSYSTIMEKERNEL'; do
 for i_systime in '-DI_SYSTIME' ''; do
  case "$flags" in
  '') $echo $n ".$c"
   set try $i_systime $i_systimek $sysselect $s_timeval $s_timezone
   if eval $compile; then
    set X $i_systime $i_systimek $sysselect $s_timeval
    shift
    flags="$*"
```

```
    echo " "
    $echo $n "Succeeded with $flags$c"
   fi
   ;;
  esac
 done
 done
 done
@if I_SYSSELECT
 done
@end
@if timezone
 done
@end
 timeincl=''
 echo " "
 case "$flags" in
 *SYSTIMEKERNEL*) i_systimek="$define"
  timeincl=`./findhdr sys/time.h`
  echo "We'll include <sys/time.h> with KERNEL defined." >&4;;
 *) i_systimek="$undef";;
 esac
 case "$flags" in
 *I_SYSTIME*) i_systime="$define"
  timeincl=`./findhdr sys/time.h`" $timeincl"
  echo "We'll include <sys/time.h>." >&4;;
 *) i_systime="$undef";;
 esac
@if I_SYSSELECT
 case "$flags" in
 *I_SYSSELECT*) i_sysselct="$define"
  timeincl=`./findhdr sys/select.h`"
 $timeincl"
  echo "We'll also include <sys/select.h> to get struct timeval." >&4;;
 *) case "$i_sysselct" in
  '') i_sysselct="$undef";;
  esac
 esac
@end
 $rm_try
fi
: see if struct tm knows about tm_zone
case "$i_systime$i_time" in
*$define*)
        echo " "
        echo "Checking to see if your struct tm has tm_zone field..." >&4
        set d_tm_tm_zone tm tm_zone $i_systime sys/time.h $i_time time.h
        eval $hasfield
```

```
	;;
*)	val="$undef"
	set d_tm_tm_zone
	eval $setvar
	;;
esac
case "$d_tm_tm_zone" in
"$define")	echo "Yes, it does."	;;
*)		echo "No, it doesn't." ;;
esac
: see if struct tm knows about tm_gmtoff
case "$i_systime$i_time" in
*$define*)
	echo " "
	echo "Checking to see if your struct tm has tm_gmtoff field..." >&4
	set d_tm_tm_gmtoff tm tm_gmtoff $i_systime sys/time.h $i_time time.h
	eval $hasfield
	;;
*)	val="$undef"
	set d_tm_tm_gmtoff
	eval $setvar

	;;
esac
case "$d_tm_tm_gmtoff" in
"$define")	echo "Yes, it does."	;;
*)		echo "No, it doesn't." ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/i_time.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysutsname.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysutsname: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysutsname:
?S: This variable conditionally defines the I_SYSUTSNAME symbol,
?S: and indicates whether a C program should include <sys/utsname.h>.
?S:.
?C:I_SYSUTSNAME:
```

```
?C: This symbol, if defined, indicates that <sys/utsname.h> exists and
?C: should be included.
?C:.
?H:#$i_sysutsname I_SYSUTSNAME  /**/
?H:.
?LINT:set i_sysutsname
: see if this is a sys/utsname.h system
set sys/utsname.h i_sysutsname
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_sysutsname.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: archname.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:24:32  ram
?RCS: patch61: changed the way the archname is mangled from uname
?RCS:
?RCS: Revision 3.0.1.2  1995/05/12  12:05:24  ram
?RCS: patch54: protect against spaces in "uname -m" output (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1995/02/15  14:14:21  ram
?RCS: patch51: created
?RCS:
?MAKE:archname myarchname: sed Loc Myread Oldconfig osname test rm
?MAKE: -pick add $@ %<
?S:archname:
?S: This variable is a short name to characterize the current
?S: architecture.
  It is used mainly to construct the default archlib.
?S:.
?S:myarchname:
?S: This variable holds the architecture name computed by Configure in
?S: a previous run. It is not intended to be perused by any user and
?S: should never be set in a hint file.
?S:.
?C:ARCHNAME:
```

```
?C: This symbol holds a string representing the architecture name.
?C: It may be used to construct an architecture-dependant pathname
?C: where library files may be held under a private library, for
?C: instance.
?C:.
?H:#define ARCHNAME "$archname"  /**/
?H:.
?T:xxx tarch
: determine the architecture name
echo " "
?X: We always recompute archname in case osname changes. However, we need
?X: to be careful since, as ADO rightfully pointed out, some systems pick
?X: silly architecture names (0001307135000-aix on AIX or 9000/715-ux under
?X: HP-UX). Therefore, we allow hint files to superseed our guess and ask
?X: the user for confirmation.
if xxx=`./loc arch blurfl $pth`; $test -f "$xxx"; then
 tarch=`arch`"-$osname"
elif
 xxx=`./loc uname blurfl $pth`; $test -f "$xxx" ; then
 if uname -m > tmparch 2>&1 ; then
  tarch=`$sed -e 's/ *$//' -e 's/ /_/g' \
   -e 's/$/'"-$osname/" tmparch`
 else
  tarch="$osname"
 fi
 $rm -f tmparch
else
 tarch="$osname"
fi
case "$myarchname" in
"|"$tarch") ;;
*)
 echo "(Your architecture name used to be $myarchname.)"
 archname=''
 ;;
esac
case "$archname" in
'') dflt="$tarch";;
*) dflt="$archname";;
esac
rp='What is your architecture name'
. ./myread
archname="$ans"
myarchname="$tarch"
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/archname.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Setprefixvar.U,v 3.0 2006/04/01 17:25:29 hmbrand $
?RCS:
?RCS: Copyright (c) 2006-2006, H.Merijn Brand & Nicholas Clark
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:   You may distribute under the terms of either the GNU General Public
?RCS:   License or the Artistic License, as specified in the README file.
?RCS:
?X:
?X: This unit sets up the scripts installprefix and setprefixvar, so code
?X: in other parts can be more simple and maintainable
?X:
?MAKE:Setprefixvar: Myread Getfile startsh eunicefix test \
 prefix prefixexp installprefix installprefixexp
?MAKE: -pick add $@ %<
?LINT:extern prefixvar
?X: metalint still sees "`\$${prefixvar}exp`" as variable :(
?T:prefixvarexp
?F:./setprefixvar
?F:./installprefix
: Perform
 the prefixexp/installprefixexp correction if necessary
cat <<EOS >installprefix
$startsh
EOS
cat <<'EOSC' >>installprefix
: Change installation prefix, if necessary.
if $test X"$prefix" != X"$installprefix"; then
   eval "install${prefixvar}=\`echo \$${prefixvar}exp | sed \"s#^\$prefixexp#\$installprefixexp#\"\`"
else
   eval "install${prefixvar}=\"\$${prefixvar}exp\""
fi
EOSC
chmod +x installprefix
$eunicefix installprefix

: Set variables such as privlib and privlibexp from the output of ./getfile
: performing the prefixexp/installprefixexp correction if necessary.
cat <<EOS >setprefixvar
$startsh
EOS
cat <<'EOSC' >>setprefixvar
eval "${prefixvar}=\"\$ans\""
```

```
eval "${prefixvar}exp=\"\$ansexp\""
. ./installprefix
EOSC
chmod +x setprefixvar
$eunicefix setprefixvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/Setprefixvar.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: myhostname.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:15:55  ram
?RCS: patch61: improved hostname lookup by using ypmatch when NIS is used
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:25:43  ram
?RCS: patch36: call ./xenix explicitly instead of relying on PATH
?RCS: patch36: now uses new Tr unit to convert to/from lowercase
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:06:20  ram
?RCS: patch30: now a little more clever for domain name guessing
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:18  ram
?RCS:
 Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:myhostname phostname mydomain: contains sed test Myread Oldconfig \
 Guess Loc awk echo sort uniq +usrinc rm hostcat Tr osname
?MAKE: -pick add $@ %<
?S:myhostname (hostname):
?S: This variable contains the eventual value of the MYHOSTNAME symbol,
?S: which is the name of the host the program is going to run on.
?S: The domain is not kept with hostname, but must be gotten from mydomain.
?S: The dot comes with mydomain, and need not be supplied by the program.
?S:.
?S:mydomain:
?S: This variable contains the eventual value of the MYDOMAIN symbol,
?S: which is the domain of the host the program is going to run on.
```

```
?S: The domain must be appended to myhostname to form a complete host name.
?S: The dot comes with mydomain, and need not be supplied by the program.
?S:.
?S:phostname:
?S: This variable contains the eventual value of the PHOSTNAME symbol,
?S: which is a command that can be fed to popen() to get the host name.
?S: The program
 should probably not presume that the domain is or isn't
?S: there already.
?S:.
?C:MYHOSTNAME (HOSTNAME):
?C: This symbol contains name of the host the program is going to run on.
?C: The domain is not kept with hostname, but must be gotten from MYDOMAIN.
?C: The dot comes with MYDOMAIN, and need not be supplied by the program.
?C: If gethostname() or uname() exist, MYHOSTNAME may be ignored. If MYDOMAIN
?C: is not used, MYHOSTNAME will hold the name derived from PHOSTNAME.
?C:.
?C:MYDOMAIN:
?C: This symbol contains the domain of the host the program is going to
?C: run on.  The domain must be appended to HOSTNAME to form a complete
?C: host name.  The dot comes with MYDOMAIN, and need not be supplied by
?C: the program.  If the host name is derived from PHOSTNAME, the domain
?C: may or may not already be there, and the program should check.
?C:.
?H:#define MYHOSTNAME "$myhostname"  /**/
?H:#define MYDOMAIN "$mydomain"  /**/
?H:.
?T:cont i tans tmp_re file
: now get the host name
echo
 " "
echo "Figuring out host name..." >&4
case "$myhostname" in
") cont=true
 echo 'Maybe "hostname" will work...'
 if tans=`sh -c hostname 2>&1` ; then
  myhostname=$tans
  phostname=hostname
  cont=''
 fi
 ;;
*) cont='';;
esac
if $test "$cont"; then
 if ./xenix; then
  echo 'Oh, dear.  Maybe "/etc/systemid" is the key...'
  if tans=`cat /etc/systemid 2>&1` ; then
   myhostname=$tans
```

```
   phostname='cat /etc/systemid'
   echo "Whadyaknow.  Xenix always was a bit strange..."
   cont=''
  fi
 elif $test -r /etc/systemid; then
  echo "(What is a non-Xenix system doing with /etc/systemid?)"
 fi
fi
if $test "$cont"; then
 echo 'No, maybe "uuname -l" will work...'
 if tans=`sh -c 'uuname -l' 2>&1` ; then
  myhostname=$tans
  phostname='uuname -l'
 else
  echo 'Strange.  Maybe "uname -n" will work...'
  if tans=`sh -c 'uname -n' 2>&1` ; then
   myhostname=$tans
   phostname='uname -n'
  else
   echo 'Oh well, maybe I can mine it out of whoami.h...'
   if tans=`sh -c $contains' sysname $usrinc/whoami.h'
 2>&1` ; then
    myhostname=`echo "$tans" | $sed 's/^.*"\(.*\)"/\1/'`
    phostname="sed -n -e ""/sysname/s/^.*\"\\(.*\\)\"/\1/{"" -e p -e q -e '}' <$usrinc/whoami.h"
   else
    case "$myhostname" in
    '') echo "Does this machine have an identity crisis or something?"
     phostname='';;
    *)
     echo "Well, you said $myhostname before..."
     phostname='echo $myhostname';;
    esac
   fi
  fi
 fi
fi
case "$myhostname" in
'') myhostname=noname ;;
esac
: you do not want to know about this
set $myhostname
myhostname=$1

: verify guess
if $test "$myhostname" ; then
 dflt=y
 rp='Your host name appears to be "'$myhostname'".'" Right?"
 . ./myread
```

```
 case "$ans" in
 y*) ;;
 *) myhostname=";;
 esac
fi

: bad guess or no guess
while $test "X$myhostname" = X ; do
 dflt="
 rp="Please type the (one word) name of your host:"
 . ./myread
 myhostname="$ans"
done

: translate upper to lower if necessary
case "$myhostname" in
*[A-Z]*)
 echo "(Normalizing case in your host name)"
 myhostname=`echo
 $myhostname | ./tr '[A-Z]' '[a-z]'`
 ;;
esac

?X: Do not ask for domain name if this is not used later on. In that
?X: case, the hostname may keep its domain name, but it doesn't matter.
@if MYDOMAIN || mydomain
case "$myhostname" in
*.*)
 dflt=`expr "X$myhostname" : "X[^.]*\(\..*\)"`
 myhostname=`expr "X$myhostname" : "X\([^.]*\)\."`
 echo "(Trimming domain name from host name--host name is now $myhostname)"
 ;;
*) case "$mydomain" in
 ")
?X:
?X: There is currently no way to say we do not want hostcat if mydomain is not
?X: used. One way to achieve that would be to put that code in a mydomain.U
?X: unit. However, we want to stick the sanity checks right after the domain
?X: name computation, or if none is done, right after the hostname computation.
?X:
  {
?X: If we use NIS, try ypmatch.
   test "X$hostcat" = "Xypcat hosts" &&
   ypmatch "$myhostname" hosts 2>/dev/null |\
    $sed -e 's/[  ]*#.*//; s/$/ /' > hosts && \
   $test -s hosts
  } || {
?X: Extract only
```

```
 the relevant hosts, reducing file size,
?X: remove comments, insert trailing space for later use.
        $hostcat | $sed -n -e "s/[  ]*#.*//; s/\$/ /
     /[  ]$myhostname[ . ]/p" > hosts
  }
  tmp_re="[ . ]"
  $test x`$awk "/[0-9].*[  ]$myhostname$tmp_re/ { sum++ }
        END { print sum }" hosts` = x1 || tmp_re="[  ]"
  dflt=.`$awk \
  "/[0-9].*[  ]$myhostname$tmp_re/ {for(i=2; i<=NF;i++) print \\\$i}" \
   hosts | $sort | $uniq | \
   $sed -n -e "s/$myhostname\.\([-a-zA-Z0-9_.]\)/\1/p"`
  case `$echo X$dflt` in
  X*\ *) echo "(Several hosts in /etc/hosts matched hostname)"
   dflt=.
   ;;
?X: There is no /etc/hosts on os390
  X.)
   if $test -f /etc/hosts; then
    echo "(You do not have fully-qualified names in /etc/hosts)"
   else
    echo "(I cannot locate a hosts database anywhere)"
   fi
   ;;
  esac
  case "$dflt" in
  .)
   tans=`./loc resolv.conf X /etc /usr/etc`
   if $test -f "$tans"; then
    echo "(Attempting domain name extraction from $tans)"
?X: Look for either a search
 or a domain directive.
    dflt=.`$sed -n -e 's/ / /g' \
      -e 's/^search  *\([^ ]*\).*/\1/p' $tans \
      | ./tr '[A-Z]' '[a-z]' 2>/dev/null`
    case "$dflt" in
    .) dflt=.`$sed -n -e 's/ / /g' \
         -e 's/^domain  *\([^ ]*\).*/\1/p' $tans \
         | ./tr '[A-Z]' '[a-z]' 2>/dev/null`
      ;;
    esac
   fi
   ;;
  esac
  case "$dflt" in
  .) echo "(No help from resolv.conf either -- attempting clever guess)"
   dflt=.`sh -c domainname 2>/dev/null`
   case "$dflt" in
```

```
   ") dflt='.';;
   .nis.*|.yp.*|.main.*) dflt=`echo $dflt | $sed -e 's/^\.[^.]*//'`;;
   esac
   ;;
  esac
  case "$dflt$osname" in
  .os390)
   file="//'SYS1.TCPPARMS(TCPDATA)'"
   echo "(Attempting domain name extraction from $file)"
   dflt=.`awk '/^DOMAINORIGIN/ {print $2}' "$file" 2>/dev/null`
   ;;
   esac
  case "$dflt" in
  .) echo "(Lost all hope -- silly guess then)"
   dflt='.nonet'
   ;;
  esac
  $rm -f hosts
  ;;
 *) dflt="$mydomain";;
 esac;;
esac
echo " "
rp="What is your domain name?"
.
 ./myread
tans="$ans"
case "$ans" in
") ;;
.*) ;;
*) tans=".$tans";;
esac
mydomain="$tans"

: translate upper to lower if necessary
case "$mydomain" in
*[A-Z]*)
 echo "(Normalizing case in your domain name)"
 mydomain=`echo $mydomain | ./tr '[A-Z]' '[a-z]'`
 ;;
esac

@end
: a little sanity check here
case "$phostname" in
") ;;
*)
 case `$phostname | ./tr '[A-Z]' '[a-z]'` in
```

```
 $myhostname$mydomain|$myhostname) ;;
 *)
  case "$phostname" in
  sed*)
   echo "(That doesn't agree with your whoami.h file, by the way.)"
   ;;
  *)
   echo "(That doesn't agree with your $phostname command, by the way.)"
   ;;
  esac
 ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/myhostname.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_recvmsg: Inlibc
?MAKE: -pick add $@ %<
?S:d_recvmsg:
?S: This variable conditionally defines the HAS_RECVMSG symbol, which
?S: indicates to the C program that the recvmsg() routine is available.
?S:.
?C:HAS_RECVMSG:
?C: This symbol, if defined, indicates that the recvmsg routine is
?C: available to send structured socket messages.
?C:.
?H:#$d_recvmsg HAS_RECVMSG  /**/
?H:.
?LINT:set d_recvmsg
: see if recvmsg exists
set recvmsg d_recvmsg
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_recvmsg.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libpth.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libpth.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  16:08:49  ram
?RCS: patch61: new loclibpth variable
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:31:30  ram
?RCS: patch45: call ./mips instead of just mips (WED)
?RCS:
?RCS: Revision 3.0.1.4  1994/08/29  16:29:15  ram
?RCS: patch32: added /lib/pa1.1 for HP-UX specially tuned PA-RISC libs (ADO)
?RCS: patch32: fixed information message, making it clearer (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:03:54
  ram
?RCS: patch30: added /usr/shlib to glibpth for shared-only libraries
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:26:57  ram
?RCS: patch27: fixed a typo (libpth -> glibpth)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:07:53  ram
?RCS: patch23: now asks for library directories to be searched (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit initializes the path for C library lookup.
?X:
?MAKE:libpth glibpth xlibpth plibpth loclibpth incpth: \
 usrinc incpath test cat Myread Oldconfig sysroot osname \
 ccname echo cppstdin awk grep sed rm usecrosscompile
?MAKE: -pick add $@ %<
?S:libpth:
?S: This variable holds the general path (space-separated) used to find
?S: libraries. It is intended to be used by other units.
?S:.
?S:glibpth:
```

```
?S: This variable holds the general path (space-separated) used to
?S: find libraries.  It may contain directories that do not exist on
?S: this platform, libpth is the cleaned-up
 version.
?S:.
?S:xlibpth:
?S: This variable holds extra path (space-separated) used to find
?S: libraries on this platform, for example CPU-specific libraries
?S: (on multi-CPU platforms) may be listed here.
?S:.
?S:loclibpth:
?S: This variable holds the paths (space-separated) used to find local
?S: libraries.  It is prepended to libpth, and is intended to be easily
?S: set from the command line.
?S:.
?S:plibpth:
?S: Holds the private path used by Configure to find out the libraries.
?S: Its value is prepend to libpth. This variable takes care of special
?S: machines, like the mips.  Usually, it should be empty.
?S:.
?S:incpth:
?S: This variable must precede the normal include path to get the
?S: right one, as in "$incpath/usr/include" or "$incpath/usr/lib".
?S: Value can be "" or "/bsd43" on mips.
?S:.
?T: xxx dlist i j croak realpath inclibpth
?LINT:extern incpth
?LINT:change usrinc
?INIT:: change the next line if compiling for Xenix/286 on Xenix/386
?INIT:xlibpth='/usr/lib/386
 /lib/386'
?INIT:: Possible local library directories to search.
?INIT:loclibpth="/usr/local/lib /opt/local/lib /usr/gnu/lib"
?INIT:loclibpth="$loclibpth /opt/gnu/lib /usr/GNU/lib /opt/GNU/lib"
?INIT:
?INIT:: general looking path for locating libraries
?INIT:glibpth="/lib /usr/lib $xlibpth"
?INIT:glibpth="$glibpth /usr/ccs/lib /usr/ucblib /usr/local/lib"
?X: /shlib is for Digital Unix 4.0
?X: /usr/shlib is for OSF/1 systems.
?INIT:test -f /usr/shlib/libc.so && glibpth="/usr/shlib $glibpth"
?INIT:test -f /shlib/libc.so     && glibpth="/shlib $glibpth"
?INIT:test -d /usr/lib64         && glibpth="$glibpth /lib64 /usr/lib64 /usr/local/lib64"
?INIT:
?INIT:: Private path used by Configure to find libraries.  Its value
?INIT:: is prepended to libpth. This variable takes care of special
?INIT:: machines, like the mips.  Usually, it should be empty.
?INIT:plibpth="
```

```
?INIT:
?X:cppfilter is later used in Findhdr.U, but we not want to expose it to config.h
?T:cppfilter
: Adjust cppfilter for path
 component separator
case "$osname" in
vos) cppfilter="tr '\\\\>' '/' |" ;; # path component separator is >
os2) cppfilter="sed -e 's|\\\\\\\\\|/|g' |" ;; # path component separator is \
*)   cppfilter=" ;;
esac

: Use gcc to determine libpth and incpth
# If using gcc or clang, we can get better values for libpth, incpth
# and usrinc directly from the compiler.
# Note that ccname for clang is also gcc.
case "$ccname" in
  gcc)
 realpath=`which realpath 2>/dev/null | sed 's/no realpath in.*//'`
 $echo 'extern int foo;' > try.c
 set X `$cppstdin -v try.c 2>&1 | $awk '/^#include </,/^End of search /'|$cppfilter $grep '/include'`
 shift
 inclibpth=""
 if $test $# -gt 0; then
     for i in $*; do
  case $realpath in
      */realpath) i=`$realpath $i` ;;
  esac
  incpth="$incpth $i"
  j="`$echo $i | $sed 's,/include[^/]*,/lib,'`"
  if $test -d $j; then
      inclibpth="$inclibpth $j"
  fi
     done
     incpth="`$echo $incpth | $sed 's/^ //'`"
     for xxx in $inclibpth $loclibpth $plibpth
 $glibpth; do
  if $test -d $xxx; then
      case $realpath in
   */realpath) xxx=`$realpath $xxx` ;;
      esac
      case " $libpth " in
      *" $xxx "*) ;;
      *) libpth="$libpth $xxx";;
      esac
  fi
     done
     libpth="`$echo $libpth | $sed 's/^ //'`"
 fi
```

```
$rm -f try.c
case "$usrinc" in
") for i in $incpth; do
 if $test -f $i/errno.h -a -f $i/stdio.h -a -f $i/time.h; then
     usrinc="$i"
     break
 fi
    done
    ;;
esac

case "$usecrosscompile" in
$define|true|[yY]*)
    case "$incpth" in
 ") echo "Incpth not defined." >&4; croak=y ;;
 *)  echo "Using incpth '$incpth'." >&4 ;;
    esac
    case "$libpth" in
 ") echo "Libpth not defined." >&4; croak=y ;;
 *)  echo "Using libpth '$libpth'." >&4 ;;
    esac
    case "$usrinc" in
 ") echo "Usrinc not defined." >&4; croak=y ;;
 *)  echo "Using usrinc $usrinc." >&4 ;;
    esac
    case "$croak" in
 y)
 if test "X$sysroot" = X; then
     echo "Cannot continue, aborting." >&4; exit 1
 else

   echo "Cross-compiling using sysroot $sysroot, failing to guess inc/lib paths is not fatal" >&4
 fi
 ;;
    esac
    ;;
esac
  ;;
esac

: Default value for incpth is just usrinc
case "$incpth" in
") incpth="$usrinc";;
esac

: Set private lib path
case "$plibpth" in
") if ./mips; then
```

```
?X: on mips, we DO NOT want /lib, and we want $incpath/usr/lib
 plibpth="$incpath/usr/lib $sysroot/usr/local/lib $sysroot/usr/ccs/lib"
   fi;;
esac
case "$libpth" in
' ') dlist="";;
") dlist="$loclibpth $plibpth $glibpth";;
*) dlist="$libpth";;
esac

: Now check and see which directories actually exist, avoiding duplicates
for xxx in $dlist
do
   if $test -d $xxx; then
  case " $libpth " in
  *" $xxx "*) ;;
  *) libpth="$libpth $xxx";;
  esac
   fi
done
$cat <<'EOM'

Some systems have incompatible or broken versions of libraries.  Among
the directories listed in the question below, please remove any you
know not to be holding relevant libraries, and add any that are needed.
Say "none" for none.

EOM

if
 test "X$sysroot" != X; then
   $cat <<EOM
You have set sysroot to $sysroot, please supply the directories excluding sysroot

EOM
fi

case "$libpth" in
") dflt='none';;
*)
?X: strip leading space
 set X $libpth
 shift
 dflt=${1+"$@"}
 ;;
esac
rp="Directories to use for library searches?"
. ./myread
```

```
case "$ans" in
none) libpth=' ';;
*) libpth="$ans";;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/libpth.U
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```
?RCS: $Id: usrinc.U,v 1.1 2000/06/27 00:20:28 jhi Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: usrinc.U,v $
?RCS: Revision 1.1  2000/06/27 00:20:28  jhi
?RCS: Initial revision
?RCS:
?RCS: Revision 3.0.1.3  1997/02/28  16:27:12  ram
?RCS: patch61: don't ask for the include path unless they are on a MIPS
?RCS:
?RCS: Revision 3.0.1.2  1995/05/12  12:24:36  ram
?RCS: patch54: ensure that ./mips always exists (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:18:31  ram
?RCS: patch23: ensure usrinc value is preserved across sessions (WED)
?RCS:
?RCS: Revision
 3.0  1993/08/18  12:09:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:usrinc incpath mips_type: test cat echo n c Getfile Guess \
 Oldconfig eunicefix contains rm sysroot cc
?MAKE: -pick add $@ %<
?S:usrinc:
?S: This variable holds the path of the include files, which is
?S: usually /usr/include. It is mainly used by other Configure units.
?S:.
?S:incpath:
?S: This variable must precede the normal include path to get the
?S: right one, as in "$incpath/usr/include" or "$incpath/usr/lib".
?S: Value can be "" or "/bsd43" on mips.
```

```
?S:.
?S:mips_type:
?S: This variable holds the environment type for the mips system.
?S: Possible values are "BSD 4.3" and "System V".
?S:.
?D:usrinc='/usr/include'
?LINT:extern cppflags
?LINT:create mips
?T:xxx_prompt
?F:./mips
: What should the include directory be ?
: Use sysroot if set, so findhdr looks in the right place.
echo " "
$echo $n "Hmm...  $c"
dflt="$sysroot/usr/include"
incpath=''
?X: mips_type is used later, to add -DSYSTYPE_BSD43
 to cppflags if needed.
mips_type=''
?X:
?X: Cannot put the following in Guess, or we get a circular dependency.
?X:
if $test -f /bin/mips && /bin/mips; then
 echo "Looks like a MIPS system..."
 $cat >usr.c <<'EOCP'
#ifdef SYSTYPE_BSD43
/bsd43
#endif
EOCP
 if $cc $cppflags -E usr.c > usr.out && $contains / usr.out >/dev/null 2>&1; then
  dflt='/bsd43/usr/include'
  incpath='/bsd43'
  mips_type='BSD 4.3'
 else
  mips_type='System V'
 fi
 $rm -f usr.c usr.out
 echo "and you're compiling with the $mips_type compiler and libraries."
 xxx_prompt=y
 echo "exit 0" >mips
else
 echo "Doesn't look like a MIPS system."
 xxx_prompt=n
 echo "exit 1" >mips
fi
chmod +x mips
$eunicefix mips
case "$usrinc" in
```

```
") ;;
*) dflt="$usrinc";;
esac
case "$xxx_prompt" in
y) fn=d/
 echo " "
 rp='Where are the include files you want to use?'
 . ./getfile
 usrinc="$ans"
 ;;
*) usrinc="$dflt"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/usrinc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getprotobyname_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getprotobyname_r getprotobyname_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getprotobyname_r:
?S: This variable conditionally defines the HAS_GETPROTOBYNAME_R symbol,
?S: which indicates to the C program that the getprotobyname_r()
?S: routine is available.
?S:.
?S:getprotobyname_r_proto:
?S: This variable encodes the prototype of getprotobyname_r.
?S: It is zero if d_getprotobyname_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getprotobyname_r
?S: is defined.
?S:.
?C:HAS_GETPROTOBYNAME_R:
?C: This symbol, if
 defined, indicates that the getprotobyname_r routine
?C: is available to getprotobyname re-entrantly.
?C:.
?C:GETPROTOBYNAME_R_PROTO:
?C: This symbol encodes the prototype of getprotobyname_r.
```

```
?C: It is zero if d_getprotobyname_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getprotobyname_r
?C: is defined.
?C:.
?H:#$d_getprotobyname_r HAS_GETPROTOBYNAME_R /**/
?H:#define GETPROTOBYNAME_R_PROTO $getprotobyname_r_proto /**/
?H:.
?T:try hdrs d_getprotobyname_r_proto
: see if getprotobyname_r exists
set getprotobyname_r d_getprotobyname_r
eval $inlibc
case "$d_getprotobyname_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getprotobyname_r_proto:$usethreads" in
 ":define") d_getprotobyname_r_proto=define
  set d_getprotobyname_r_proto getprotobyname_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getprotobyname_r_proto" in
 define)
 case "$getprotobyname_r_proto" in
 "|0) try='int getprotobyname_r(const char*, struct
 protoent*, char*, size_t, struct protoent**);'
 ./protochk "$extern_C $try" $hdrs && getprotobyname_r_proto=I_CSBWR ;;
 esac
 case "$getprotobyname_r_proto" in
 "|0) try='struct protoent* getprotobyname_r(const char*, struct protoent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getprotobyname_r_proto=S_CSBI ;;
 esac
 case "$getprotobyname_r_proto" in
 "|0) try='int getprotobyname_r(const char*, struct protoent*, struct protoent_data*);'
 ./protochk "$extern_C $try" $hdrs && getprotobyname_r_proto=I_CSD ;;
 esac
 case "$getprotobyname_r_proto" in
 "|0) d_getprotobyname_r=undef
  getprotobyname_r_proto=0
  echo "Disabling getprotobyname_r, cannot determine prototype." >&4 ;;
 * ) case "$getprotobyname_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getprotobyname_r_proto="REENTRANT_PROTO_$getprotobyname_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getprotobyname_r has no prototype, not using it." >&4 ;;
```

```
  esac
  d_getprotobyname_r=undef
  getprotobyname_r_proto=0
  ;;
 esac
 ;;
*) getprotobyname_r_proto=0
 ;;
esac
```

Found
 in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getprotobyname_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setpgid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setpgid.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:41:49  ram
?RCS: patch61: reworded symbol comments
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:06:40  ram
?RCS: patch16: created
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setpgid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setpgid:
?S: This variable conditionally defines the HAS_SETPGID symbol if the
?S: setpgid(pid, gpid) function is
 available to set process group ID.
?S:.
?C:HAS_SETPGID:
?C: This symbol, if defined, indicates that the setpgid(pid, gpid)
?C: routine is available to set process group ID.
?C:.
?H:#$d_setpgid HAS_SETPGID /**/
```

```
?H:.
?LINT:set d_setpgid
: see if setpgid exists
set setpgid d_setpgid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setpgid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getlogin_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getlogin_r getlogin_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_unistd extern_C
?MAKE: -pick add $@ %<
?S:d_getlogin_r:
?S: This variable conditionally defines the HAS_GETLOGIN_R symbol,
?S: which indicates to the C program that the getlogin_r()
?S: routine is available.
?S:.
?S:getlogin_r_proto:
?S: This variable encodes the prototype of getlogin_r.
?S: It is zero if d_getlogin_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getlogin_r
?S: is defined.
?S:.
?C:HAS_GETLOGIN_R:
?C: This symbol, if defined, indicates that the getlogin_r routine
?C: is available
 to getlogin re-entrantly.
?C:.
?C:GETLOGIN_R_PROTO:
?C: This symbol encodes the prototype of getlogin_r.
?C: It is zero if d_getlogin_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getlogin_r
?C: is defined.
?C:.
?H:#$d_getlogin_r HAS_GETLOGIN_R /**/
?H:#define GETLOGIN_R_PROTO $getlogin_r_proto /**/
?H:.
?T:try hdrs d_getlogin_r_proto
```

```
: see if getlogin_r exists
set getlogin_r d_getlogin_r
eval $inlibc
case "$d_getlogin_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_unistd unistd.h"
 case "$d_getlogin_r_proto:$usethreads" in
 ":define") d_getlogin_r_proto=define
  set d_getlogin_r_proto getlogin_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getlogin_r_proto" in
 define)
 case "$getlogin_r_proto" in
 "|0) try='int getlogin_r(char*, size_t);'
 ./protochk "$extern_C $try" $hdrs && getlogin_r_proto=I_BW ;;
 esac
 case "$getlogin_r_proto" in
 "|0) try='int getlogin_r(char*, int);'
 ./protochk "$extern_C $try" $hdrs && getlogin_r_proto=I_BI
 ;;
 esac
 case "$getlogin_r_proto" in
 "|0) try='char* getlogin_r(char*, size_t);'
 ./protochk "$extern_C $try" $hdrs && getlogin_r_proto=B_BW ;;
 esac
 case "$getlogin_r_proto" in
 "|0) try='char* getlogin_r(char*, int);'
 ./protochk "$extern_C $try" $hdrs && getlogin_r_proto=B_BI ;;
 esac
 case "$getlogin_r_proto" in
 "|0) d_getlogin_r=undef
  getlogin_r_proto=0
  echo "Disabling getlogin_r, cannot determine prototype." >&4 ;;
 * ) case "$getlogin_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getlogin_r_proto="REENTRANT_PROTO_$getlogin_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getlogin_r has no prototype, not using it." >&4 ;;
  esac
  d_getlogin_r=undef
  getlogin_r_proto=0
  ;;
```

```
 esac
 ;;
*) getlogin_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getlogin_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: models.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: models.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:13:17  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:02:39  ram
?RCS: patch6: added default for large
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:models split small medium large huge: test cat Myread sysman Oldconfig \
 Loc contains rm
?MAKE: -pick add $@ %<
?S:models:
?S: This variable contains
 the list of memory models supported by this
?S: system.  Possible component values are none, split, unsplit, small,
?S: medium, large, and huge.  The component values are space separated.
?S:.
?S:split:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program that will run in separate I and D space, for those
?S: machines that support separation of instruction and data space.  It is
?S: up to the Makefile to use this.
?S:.
?S:small:
?S: This variable contains a flag which will tell the C compiler and loader
```

```
?S: to produce a program running with a small memory model.  It is up to
?S: the Makefile to use this.
?S:.
?S:medium:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program running with a medium memory model.  If the
?S: medium model is not supported, contains the flag to produce large
?S: model programs.  It is up to the Makefile to use this.
?S:.
?S:large:
?S: This variable contains a flag
 which will tell the C compiler and loader
?S: to produce a program running with a large memory model.  It is up to
?S: the Makefile to use this.
?S:.
?S:huge:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program running with a huge memory model.  If the
?S: huge model is not supported, contains the flag to produce large
?S: model programs.  It is up to the Makefile to use this.
?S:.
?T:unsplit tans modelcc
?F:!pdp11
?D:large=''
?LINT:extern cc
: see what memory models we can support
case "$models" in
'')
?X: We may not use Cppsym or we get a circular dependency through cc.
?X: But this should work regardless of which cc we eventually use.
 $cat >pdp11.c <<'EOP'
int main() {
#ifdef pdp11
 exit(0);
#else
 exit(1);
#endif
}
EOP
?X: Run cc in a subshell in case they don't have a 'cc' command.
?X: Presumably they do have gcc or something.
 case "$cc" in
 '') modelcc="$cc" ;;
 *) modelcc="cc" ;;
 esac
 ( $modelcc -o pdp11 pdp11.c ) >/dev/null 2>&1
 if
```

```
 $test -f pdp11 && ./pdp11 2>/dev/null; then
  dflt='unsplit split'
 else
  tans=`./loc . X /lib/small /lib/large /usr/lib/small /usr/lib/large /lib/medium /usr/lib/medium /lib/huge`
  case "$tans" in
  X) dflt='none';;
  *) if $test -d /lib/small || $test -d /usr/lib/small; then
    dflt='small'
   else
    dflt=''
   fi
   if $test -d /lib/medium || $test -d /usr/lib/medium; then
    dflt="$dflt medium"
   fi
   if $test -d /lib/large || $test -d /usr/lib/large; then
    dflt="$dflt large"
   fi
   if $test -d /lib/huge || $test -d /usr/lib/huge; then
    dflt="$dflt huge"
   fi
  esac
 fi;;
*) dflt="$models";;
esac
$cat <<EOM

Some systems have different model sizes.  On most systems they are called
small, medium, large, and huge.  On the PDP11 they are called unsplit and
split.  If your system doesn't support different memory models, say "none".
If you wish to force everything to one memory model, say "none" here and
put the appropriate flags later when it asks you for other
 cc and ld flags.
Venix systems may wish to put "none" and let the compiler figure things out.
(In the following question multiple model names should be space separated.)

The default for most systems is "none".

EOM
rp="Which memory models are supported?"
. ./myread
models="$ans"

case "$models" in
none)
 small=''
 medium=''
 large=''
 huge=''
```

```
 unsplit="
 split="
 ;;
*split)
 case "$split" in
 ") if $contains '\-i' $sysman/ld.1 >/dev/null 2>&1 || \
    $contains '\-i' $sysman/cc.1 >/dev/null 2>&1; then
   dflt='-i'
  else
   dflt='none'
  fi;;
 *) dflt="$split";;
 esac
 rp="What flag indicates separate I and D space?"
 . ./myread
 tans="$ans"
 case "$tans" in
 none) tans=";;
 esac
 split="$tans"
 unsplit=";;
*large*|*small*|*medium*|*huge*)
 case "$models" in
 *large*)
  case "$large" in
  ") dflt='-Ml';;
  *) dflt="$large";;
  esac
 rp="What flag indicates large model?"
 . ./myread
 tans="$ans"
 case "$tans" in
 none) tans=";
 esac
 large="$tans";;
 *) large=";;
 esac
 case "$models"
 in
 *huge*) case "$huge" in
  ") dflt='-Mh';;
  *) dflt="$huge";;
  esac
  rp="What flag indicates huge model?"
  . ./myread
  tans="$ans"
  case "$tans" in
  none) tans=";
```

```
 esac
 huge="$tans";;
*) huge="$large";;
esac
case "$models" in
*medium*) case "$medium" in
 ") dflt='-Mm';;
 *) dflt="$medium";;
 esac
 rp="What flag indicates medium model?"
 . ./myread
 tans="$ans"
 case "$tans" in
 none) tans=";
 esac
 medium="$tans";;
*) medium="$large";;
esac
case "$models" in
*small*) case "$small" in
 ") dflt='none';;
 *) dflt="$small";;
 esac
 rp="What flag indicates small model?"
 . ./myread
 tans="$ans"
 case "$tans" in
 none) tans=";
 esac
 small="$tans";;
*) small=";;
esac
;;
*)
 echo "Unrecognized memory models--you may have to edit Makefile.SH" >&4
 ;;
esac
$rm -f pdp11.* pdp11
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/models.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libnm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libnm.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:08:26  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libnm: test Loc libpth _a
?MAKE: -pick add $@ %<
?S:libnm:
?S: This variable contains the argument to pass to the loader in order
?S: to get the new math library routines.  If there is no new math
?S: library, it is null.
?S:.
?T:ans
?O:
 use libswanted='-lnm' instead (see libs.U).
: see if we should include -lnm
echo " "
if $test -r /usr/lib/libnm$_a || $test -r /usr/local/lib/libnm$_a ; then
 echo "New math library found." >&4
 libnm='-lnm'
else
 ans=`./loc libnm$_a x $libpth`
 case "$ans" in
 x)
  echo "No nm library found--the normal math library will have to do." >&4
  libnm=''
  ;;
 *)
  echo "New math library found in $ans." >&4
  libnm="$ans"
  ;;
 esac
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/libnm.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_mktime.U 1 2006-08-24 12:32:52Z rmanfredi $

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_mktime.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:09:44  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_mktime: Inlibc
?MAKE: -pick add $@ %<
?S:d_mktime:
?S: This variable conditionally defines the HAS_MKTIME symbol, which
?S: indicates to the C program that the mktime() routine is available.
?S:.
?C:HAS_MKTIME :
?C: This symbol, if defined, indicates that the mktime routine
 is
?C: available.
?C:.
?H:#$d_mktime HAS_MKTIME  /**/
?H:.
?LINT:set d_mktime
: see if mktime exists
set mktime d_mktime
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_mktime.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: setsid.C,v 3.0.1.1 1994/01/24 13:58:47 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
```

```
*
* $Log: setsid.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:47  ram
* patch16: created
*
*/
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/lib/C/fake/setsid.C
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_nan: Inlibc
?MAKE: -pick add $@ %<
?S:d_nan:
?S: This variable conditionally defines HAS_NAN if nan() is
?S: available to generate NaN.
?S:.
?C:HAS_NAN:
?C: This symbol, if defined, indicates that the nan routine is
?C: available to generate NaN.
?C:.
?H:#$d_nan HAS_NAN  /**/
?H:.
?LINT:set d_nan
: see if nan exists
set nan d_nan
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_nan.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_rusage.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_rusage.U,v $
```

```
?RCS: Revision 3.0  1993/08/18  12:06:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X: We may need to include <sys/resource.h> and <sys/time.h> FIXME
?X:INC: i_sysresrc i_systime
?MAKE:d_rusage: Inlibc
?MAKE: -pick add $@ %<
?S:d_rusage (d_getrusg):
?S: This variable conditionally defines the HAS_GETRUSAGE symbol, which
?S: indicates that the getrusage() routine exists.  The getrusage() routine
?S: supports sub-second accuracy
 for process cpu accounting. You may need
?S: to include <sys/resource.h> and <sys/time.h>.
?S:.
?C:HAS_GETRUSAGE (RUSAGE GETRUSAGE):
?C: This symbol, if defined, indicates that the getrusage() routine is
?C: available to get process statistics with a sub-second accuracy.
?C: Inclusion of <sys/resource.h> and <sys/time.h> may be necessary.
?C:.
?H:#$d_rusage HAS_GETRUSAGE  /**/
?H:.
?LINT:set d_rusage
: see if getrusage exists
set getrusage d_rusage
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_rusage.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_casti32.U,v $
?RCS: Revision 3.0.1.3  1995/05/12  12:10:45  ram
?RCS: patch54: made sure cc and ccflags are conditional dependencies
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:09:37  ram
```

```
?RCS: patch36: declare signal handler correctly (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:06  ram
?RCS: patch32: created by ADO
?RCS:
?X:
?X: Can the compiler cast large floats to 32-bit integers?
?X:
?MAKE:d_casti32: cat
 +cc +ccflags rm_try intsize Setvar test signal_t
?MAKE: -pick add $@ %<
?S:d_casti32:
?S: This variable conditionally defines CASTI32, which indicates
?S: whether the C compiler can cast large floats to 32-bit ints.
?S:.
?C:CASTI32:
?C: This symbol is defined if the C compiler can cast negative
?C: or large floating point numbers to 32-bit ints.
?C:.
?T:xxx yyy
?H:#$d_casti32 CASTI32  /**/
?H:.
?F:!try
?LINT:set d_casti32
: check for ability to cast large floats to 32-bit ints.
echo " "
echo 'Checking whether your C compiler can cast large floats to int32.' >&4
if $test "$intsize" -eq 4; then
 xxx=int
else
 xxx=long
fi
$cat >try.c <<EOCP
#include <sys/types.h>
#include <signal.h>
$signal_t blech() { exit(3); }
int main()
{
 $xxx i32;
 double f;
 int result = 0;
 signal(SIGFPE, blech);

 f = (double) 0x7fffffff;
 f = 10 * f;
 i32  = ($xxx) f;

 if (i32 != ($xxx) f)
```

```
  result |= 1;
 exit(result);
}
EOCP
if $cc $ccflags -o try try.c >/dev/null 2>&1; then
 ./try
 yyy=$?
else
 echo "(I can't
 seem to compile the test program--assuming it can't)"
 yyy=1
fi
case "$yyy" in
0) val="$define"
 echo "Yup, it can."
 ;;
*) val="$undef"
 echo "Nope, it can't."
 ;;
esac
set d_casti32
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_casti32.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_castneg.U,v $
?RCS: Revision 3.0.1.2  1995/05/12  12:11:21  ram
?RCS: patch54: made sure cc and ccflags are conditional dependencies
?RCS: patch54: added improved test case for Interactive Unix
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:10:50  ram
?RCS: patch36: don't forget to tell user about compilation failures (ADO)
?RCS: patch36: declare signal handler correctly using 'signal_t' (ADO)
?RCS:
```

```
?RCS: Revision 3.0  1993/08/18  12:05:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Can
 the compiler cast negative / odd floats to unsigned values.
?X:
?MAKE:d_castneg castflags: cat +cc +ccflags rm_try Setvar signal_t
?MAKE: -pick add $@ %<
?S:d_castneg:
?S: This variable conditionally defines CASTNEG, which indicates
?S: wether the C compiler can cast negative float to unsigned.
?S:.
?S:castflags:
?S: This variable contains a flag that precise difficulties the
?S: compiler has casting odd floating values to unsigned long:
?S:  0 = ok
?S:  1 = couldn't cast < 0
?S:  2 = couldn't cast >= 0x80000000
?S:  4 = couldn't cast in argument expression list
?S:.
?C:CASTNEGFLOAT:
?C: This symbol is defined if the C compiler can cast negative
?C: numbers to unsigned longs, ints and shorts.
?C:.
?C:CASTFLAGS:
?C: This symbol contains flags that say what difficulties the compiler
?C: has casting odd floating values to unsigned long:
?C:  0 = ok
?C:  1 = couldn't cast < 0
?C:  2 = couldn't cast >= 0x80000000
?C:  4 = couldn't cast in argument expression list
?C:.
?H:#$d_castneg CASTNEGFLOAT  /**/
?H:#define
 CASTFLAGS $castflags  /**/
?H:.
?F:!try
?LINT:set d_castneg
: check for ability to cast negative floats to unsigned
echo " "
echo 'Checking whether your C compiler can cast negative float to unsigned.' >&4
$cat >try.c <<EOCP
#include <sys/types.h>
#include <signal.h>
$signal_t blech() { exit(7); }
$signal_t blech_in_list() { exit(4); }
unsigned long dummy_long(p) unsigned long p; { return p; }
```

```
unsigned int dummy_int(p) unsigned int p; { return p; }
unsigned short dummy_short(p) unsigned short p; { return p; }
int main()
{
 double f = -123.;
 unsigned long along;
 unsigned int aint;
 unsigned short ashort;
 int result = 0;

 signal(SIGFPE, blech);
 along = (unsigned long)f;
 aint = (unsigned int)f;
 ashort = (unsigned short)f;
 if (along != (unsigned long)-123)
  result |= 1;
 if (aint != (unsigned int)-123)
  result |= 1;
 if (ashort != (unsigned short)-123)
  result |= 1;
 f = (double)0x40000000;
 f = f + f;
 along = 0;
 along = (unsigned long)f;
 if
 (along != 0x80000000)
  result |= 2;
 f -= 1.;
 along = 0;
 along = (unsigned long)f;
 if (along != 0x7fffffff)
  result |= 1;
 f += 2.;
 along = 0;
 along = (unsigned long)f;
 if (along != 0x80000001)
  result |= 2;
 if (result)
  exit(result);
?X:
?X: The following is a test for Interactive Unix Version 4.1, which
?X: has an 'improved' compiler which can correctly cast negative
?X: floats in expression lists, but apparently not in argument lists.
?X: Contributed by Winfried Koenig <win@incom.rhein-main.de>
?X:
 signal(SIGFPE, blech_in_list);
 f = 123.;
 along = dummy_long((unsigned long)f);
```

```
 aint = dummy_int((unsigned int)f);
 ashort = dummy_short((unsigned short)f);
 if (along != (unsigned long)123)
  result |= 4;
 if (aint != (unsigned int)123)
  result |= 4;
 if (ashort != (unsigned short)123)
  result |= 4;
 exit(result);

}
EOCP
if $cc $ccflags -o try try.c >/dev/null 2>&1; then
 ./try
 castflags=$?
else
 echo "(I can't seem to compile the test program--assuming it can't)"
 castflags=7
fi
case
 "$castflags" in
0) val="$define"
 echo "Yup, it can."
 ;;
*) val="$undef"
 echo "Nope, it can't."
 ;;
esac
set d_castneg
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_castneg.U
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```
?RCS: $Id: d_poll.U 15 2006-08-30 18:21:51Z rmanfredi $
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_poll.U,v $
```

```
?RCS: Revision 3.0.1.2  1997/02/28  15:38:17  ram
?RCS: patch61: mention that <poll.h> can be included if HAS_POLL defined
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:26:31  ram
?RCS: patch45: created
?RCS:
?MAKE:d_poll: Inlibc
?MAKE: -pick add $@ %<
?S:d_poll:
?S: This variable conditionally defines the HAS_POLL symbol, which
?S: indicates to the C program that the poll() routine is available
?S: to poll active file descriptors.
?S:.
?C:HAS_POLL
 :
?C: This symbol, if defined, indicates that the poll routine is
?C: available to poll active file descriptors.  Please check I_POLL and
?C: I_SYS_POLL to know which header should be included as well.
?C:.
?H:#$d_poll HAS_POLL  /**/
?H:.
?LINT:set d_poll
: see if poll exists
set poll d_poll
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_poll.U
No license file was found, but licenses were detected in source scan.

```
;##############################################################################
;# Jmake rules for building libraries, programs, scripts, and data files
;# $Id: Jmake.rules 18 2006-12-27 10:35:09Z rmanfredi $

/*
*     MACHINE-INDEPENDENT RULES -- DO NOT MODIFY
*/

/* $Id: Jmake.rules 18 2006-12-27 10:35:09Z rmanfredi $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
```

```
*
* $Log: Jmake.rules,v $
* Revision 3.0.1.7  2004/08/22 08:28:58  ram
* patch71: random cleanup
*
* Revision 3.0.1.6  1997/02/28  14:56:01  ram
* patch61: now handles USRINC for dependencies
* patch61: smarter about dependencies
 computation
*
* Revision 3.0.1.5  1995/09/25  09:07:19  ram
* patch59: smarter sed command to strip /usr/include dependencies
*
* Revision 3.0.1.4  1995/07/25  13:33:59  ram
* patch56: install of script man pages can now cope with missing files
* patch56: the clobber target now removes the .config directory as well
*
* Revision 3.0.1.3  1995/03/21  08:35:28  ram
* patch52: suppressed extra argument to NormalProgramTarget call
*
* Revision 3.0.1.2  1995/01/11  14:49:55  ram
* patch45: new macros ShellScriptTargetExt and SimpleShellScriptTargetExt
* patch45: directory installation is now made via INSTALLDIR (Configure)
*
* Revision 3.0.1.1  1994/10/29  15:46:30  ram
* patch36: added RemoteDependency rule
*
* Revision 3.0  1993/08/18  12:04:14  ram
* Baseline for dist 3.0 netwide release.
*
*/

/* Please, edit only with tabstops = 4 (":set ts=4" under vi) */

/*
* AddedByConfigure:
* Gives name of the files generated by Configure that can safely
* be removed
 when a "make clobber" is issued. Not that it is useless
* to name config.h or config.sh because these are already taken care
* of by jmake.
*/
#define AddedByConfigure(files) @!\
local_clobber::   @@\
 $(RM) files

/*
* AddSuffix:
```

```
* Adds a sufix to the .SUFFIXES: list.
*/
#define AddSuffix(ext) @!\
|suffix ext


/*
* AllTarget:
* Generate rules to build necessary things during make all.
*/
#define AllTarget(depends) @!\
all:: depends    @!\
      @!\
local_realclean::   @@\
 $(RM) depends

/*
* RemoveTargetProgram:
* This is used in some other macros in order to remove the target
* before starting its building (saves disk space).  There should be
* no '@!' at the end of the '#define' line, because this macro is
* used *inside* building rules.
*/
#define RemoveTargetProgram(program) \
 $(RM) program @@\
 if test -f program^^^$(_EXE); then \ @@\
  $(MV) program^^^$(_EXE) program^^~^^^$(_EXE); fi

/*
* NormalProgramTarget:
* Generate rules to compile and link the
 indicated program; since
* it does not use any default object files, it may be used for
* multiple programs in the same Jmakefile.
*/
#define NormalProgramTarget(program,sources,objects) @!\
++OBJECTS objects @!\
++SOURCES sources @!\
NormalObjectRule()    @!\
AllTarget(program)    @!\
       @!\
program: objects    @@\
 RemoveTargetProgram($@)  @@\
 $(CC) -o $@ objects $(JLDFLAGS) $(LIBS) @!\


/*
* SingleProgramTarget:
```

```
* Obsolete version of NormalProgramTarget that doesn't have
* deplibs.
*/
#define SingleProgramTarget(program,objects,libs)  \
NormalProgramTarget(program,objects,libs)

/*
* SimpleProgramTarget:
* Generate rules for compiling and linking programs that only have
* one C source file.  It should only be used in Jmakefiles that
* describe a single program.
*/
#define SimpleProgramTarget(program) @!\
NormalProgramTarget(program,program.c,program.o)



/*
* ComplexProgramTarget:
* Generate rules for compiling and linking the program specified by
* $(OBJS) and
 $(SRCS), installing the program and its man page, and
* generating dependencies.  It should only be used in Jmakefiles
* that describe a single program.
*/
#define ComplexProgramTarget(program) @!\
++OBJECTS $(OBJS) @!\
++SOURCES $(SRCS) @!\
NormalObjectRule()     @!\
AllTarget(program)     @!\
        @!\
program: $(OBJS)     @@\
 RemoveTargetProgram($@)   @@\
 $(CC) -o $@ $(OBJS) $(JLDFLAGS) $(LIBS) @!\
        @!\
InstallProgram(program,$(BINDIR)) @!\
InstallManPage(program,$(MANSRC)) @!\
DependTarget()      @!\
LintTarget()


/*
* ComplexProgramTarget_1:
* Generate rules for compiling and linking the program specified by
* $(OBJS1) and $(SRCS1), installing the program and its man page,
* and generating dependencies for it and any programs described by
* $(SRCS2) and $(SRCS3).  It should be used to build the primary
* program in Jmakefiles that describe multiple programs.
```

```
*/
#define ComplexProgramTarget_1(program) @!\
++OBJECTS $(OBJS1) @!\
++SOURCES $(SRCS1) @!\
NormalObjectRule()     @!\
AllTarget(program)     @!\
        @!\
program:
 $(OBJS1)     @@\
 RemoveTargetProgram($@)   @@\
 $(CC) -o $@ $(OBJS1) $(JLDFLAGS) $(LIBS) @!\
        @!\
InstallProgram(program,$(BINDIR)) @!\
InstallManPage(program,$(MANSRC)) @!\
        @!\
DependTarget()      @!\
LintTarget()


/*
* ComplexProgramTarget_2:
* Generate rules for compiling and linking the program specified by
* $(OBJS2) and $(SRCS2) and installing the program and man page.
* It should be used to build the second program in Jmakefiles
* describing more than one program.
*/
#define ComplexProgramTarget_2(program) @!\
++OBJECTS $(OBJS2) @!\
++SOURCES $(SRCS2) @!\
NormalObjectRule()     @!\
AllTarget(program)     @!\
        @!\
program: $(OBJS2)     @@\
 RemoveTargetProgram($@)   @@\
 $(CC) -o $@ $(OBJS2) $(JLDFLAGS) $(LIBS) @!\
        @!\
InstallProgram(program,$(BINDIR)) @!\
InstallManPage(program,$(MANSRC))


/*
* ComplexProgramTarget_3:
* Generate rules for compiling and linking the
 program specified by
* $(OBJS3) and $(SRCS3) and installing the program and man page.  It
* should be used to build the third program in Jmakefiles describing
* more than one program.
*/
```

```
#define ComplexProgramTarget_3(program) @!\
++OBJECTS $(OBJS3) @!\
++SOURCES $(SRCS3) @!\
NormalObjectRule()     @!\
AllTarget(program)     @!\
        @!\
program: $(OBJS3)     @@\
 RemoveTargetProgram($@)   @@\
 $(CC) -o $@ $(OBJS3) $(JLDFLAGS) $(LIBS) @!\
        @!\
InstallProgram(program,$(BINDIR)) @!\
InstallManPage(program,$(MANSRC))


/*
* ComplexShellManualTarget:
* Builds manual pages that are to be extracted from .SH files into
* .$manext files.
*/
#define ComplexShellManualTarget(manpages) @!\
++MANPAGE manpages @!\
|once _ShellManualRule_  @!\
|rule:.SH.$manext:   @!\
|rule: /bin/sh $<   @!\
|rule:      @!\
-once      @!\
AddSuffix(.SH)    @!\
AddSuffix(.$manext)   @!\
AllTarget(manpages)   @!\
       @!\
local_install.man::   @@\
 _MakeInstallDirIgnore($(MANSRC)) \     @@\
 for
 file in manpages; do \  @@\
  (set -x; $(INSTALL) -c -m 444 $$file \ @@\
   $(INSTALL_PREFIX)$(MANSRC)) || exit 1; \ @@\
 done     @!\
       @!\
local_deinstall.man::  @@\
 @case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
 for file in manpages; do \  @@\
  (set -x; $(RM) $(INSTALL_PREFIX)$(MANSRC)/$$file); \ @@\
 done


/*
* Initialize:
* Puts the line symbol = value in the initialization section of
```

```
* Makefile.SH (the one that is subject to parameter substitutions).
*/
#define Initialize(symbol,value) @!\
+symbol = value


/*
* InstallLibrary:
* Generate rules to install the indicated library.
*/
#define InstallLibrary(libname,dest) @!\
local_install:: lib^^libname.a  @@\
 _MakeInstallDirIgnore(dest) \ @@\
 $(INSTALL) -c -m 644 lib^^libname.a $(INSTALL_PREFIX)^^^dest  @@\
 $(RANLIB) dest/lib^^libname.a @@\
 chmod 444 dest/lib^^libnane.a @!\
        @!\
local_deinstall::     @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/lib^^libname.a


/*
* InstallSharedLibrary:
* Generate rules to install
 the shared library.
*/
#define InstallSharedLibrary(libname,rev,dest) @!\
local_install:: lib^^libname.so.rev  @@\
 _MakeInstallDirIgnore(dest) \  @@\
 $(INSTALL) -c -m 444 lib^^libname.so.rev $(INSTALL_PREFIX)^^^dest @!\
         @!\
local_deinstall::      @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/lib^^libname.so.rev


/*
* InstallSharedLibraryData:
* Generate rules to install the shared library data
*/
#define InstallSharedLibraryData(libname,rev,dest) @!\
local_install:: lib^^libname.sa.rev  @@\
 _MakeInstallDirIgnore(dest) \  @@\
 $(INSTALL) -c -m 444 lib^^libname.sa.rev $(INSTALL_PREFIX)^^^dest @!\
        @!\
local_deinstall::     @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/lib^^libname.sa.rev
```

```
/*
* InstallLibraryAlias:
* Generate rules to create a link from one library name to another
* for the purposes of aliasing.
*/
#define InstallLibraryAlias(libname,alias,dest) @!\
local_install:: lib^^libname.a @@\
 $(RM) lib^^alias.a  @@\
 -(cd dest; $(LN) lib^^libname.a lib^^alias.a)
 @!\
      @!\
local_deinstall::   @@\
 $(RM) dest/lib^^alias.a


/*
* InstallLintLibrary:
* Generate rules to install the indicated lint library.
*/
#define InstallLintLibrary(libname,dest) @!\
install.ln:: llib-l^^libname.ln   @@\
 _MakeInstallDirIgnore(dest) \  @@\
 $(INSTALL) -c -m 444 llib-l^^libname.ln $(INSTALL_PREFIX)^^^dest @!\
      @!\
deinstall.ln::    @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/llib-l^^libname.ln


/*
* InstallManPageLong:
* Generate rules to install the indicated manual page, giving it an
* alternate name.  This is used for installing man pages whose base
* name without the .man suffix would normally be longer than 8
* characters (the limit for using source code control systems on
* files systems with short file names).
*/
#define InstallManPageLong(file,destdir,dest) @!\
local_install.man:: file.man   @@\
 _MakeInstallDirIgnore(destdir) \ @@\
 $(INSTALL) -c -m 444 file.man $(INSTALL_PREFIX)^^^destdir/dest.$(L) @!\
        @!\
local_deinstall.man::     @@\
 $(RM)
 $(INSTALL_PREFIX)^^^destdir/dest.$(L)  @!\


/*
* InstallManPage:
```

```
* Generate rules to install the indicated manual page.
*/
#define InstallManPage(file,dest) @!\
InstallManPageLong(file,dest,file)


/*
* InstallNonExec:
* Generate rules to install a data file using any special
*  install flags.
*/
#define InstallNonExec(file,dest) @!\
local_install:: file    @@\
 _MakeInstallDirIgnore(dest) \ @@\
 $(INSTALL) -c -m 444 file $(INSTALL_PREFIX)^^^dest @!\
        @!\
local_deinstall::     @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/file


/*
* InstallProgramWithFlags:
* Generate rules to install an executable program using given
* install flags.
*/
#define InstallProgramWithFlags(program,dest,flags) @!\
local_install:: program    @@\
 _MakeInstallDirIgnore(dest) \ @@\
 $(INSTALL) -c -s -m 555 flags program^^^$(_EXE) $(INSTALL_PREFIX)^^^dest @!\
        @!\
local_deinstall::     @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/program^^^$(_EXE)


/*
* InstallProgramNoStripWithFlags:
 * Generate rules to install an executable program using given
* install flags.
*/
#define InstallProgramNoStripWithFlags(program,dest,flags) @!\
local_install:: program    @@\
 _MakeInstallDirIgnore(dest) \ @@\
 $(INSTALL) -c -m 555 flags program^^^$(_EXE) $(INSTALL_PREFIX)^^^dest @!\
        @!\
local_deinstall::     @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/program^^^$(_EXE)
```

```
/*
* InstallProgram:
* Generate rules to install an executable program using any special
* install flags set in $(INSTALLFLAGS).
*/
#define InstallProgram(program,dest) @!\
InstallProgramWithFlags(program,dest,^^)


/*
* InstallProgramNoStrip:
* Generate rules to install an executable program using any special
* install flags set in $(INSTALLFLAGS), but without stripping the
* executable from debugging symbols.
*/
#define InstallProgramNoStrip(program,dest) @!\
InstallProgramNoStripWithFlags(program,dest,^^)


/*
* InstallScriptWithFlags:
* Generate rules to install an executable script using given
* install
 flags.
*/
#define InstallScriptWithFlags(script,dest,flags) @!\
local_install:: script    @@\
 _MakeInstallDirIgnore(dest) \ @@\
 $(INSTALL) -c -m 555 flags script $(INSTALL_PREFIX)^^^dest @!\
        @!\
local_deinstall::     @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/script


/*
* InstallScript:
* Generate rules to install an executable script using any special
* install flags set in $(INSTALLFLAGS).
*/
#define InstallScript(script,dest) @!\
InstallScriptWithFlags(script,dest,^^)


/*
* InstallScripts:
* Generate rules to install all the scripts listed in the generated
*  $(SCRIPTS) and $(LSCRIPTS) macros.
*/
```

```
#define InstallScripts() @!\
|once _InstallScripts_  @!\
local_install:: $(SCRIPTS) $(LSCRIPTS)    @@\
 _MakeInstallDirIgnore($(SCRIPTDIR)) \  @@\
 for file in $(SCRIPTS) $(LSCRIPTS); do \ @@\
  (set -x; \ @@\
  $(INSTALL) -c -m 555 $$file $(INSTALL_PREFIX)$(SCRIPTDIR)) || \ @@\
  exit 1; \ @@\
 done     @!\
      @!\
local_deinstall::   @@\
 @for file in $(SCRIPTS)
 $(LSCRIPTS); do \ @@\
  case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
  (set -x; $(RM) $(INSTALL_PREFIX)$(SCRIPTDIR)/$$file); \ @@\
 done     @!\
-once

/*
* InstallManScripts:
* Generate rule to install/deinstall manual pages for scripts listed
* in the automatically generated $(SCRIPTS) macro.
*/
#define InstallManScripts() @!\
|once _InstallManScripts_ @!\
?NOMAN:|skip    @!\
local_install.man::   @@\
 _MakeInstallDirIgnore($(MANSRC)) \  @@\
 for file in $(SCRIPTS); do \   @@\
  if test -f $$file.man; then \  @@\
   (set -x; \      @@\
   $(INSTALL) -c -m 444 $$file.man \ @@\
    $(INSTALL_PREFIX)$(MANSRC)/$$file.$(L)) || \ @@\
    exit 1; \ @@\
  fi; \    @@\
 done     @!\
      @!\
local_deinstall.man::  @@\
 case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
 for file in $(SCRIPTS); do \ @@\
  (set -x; $(RM) $(INSTALL_PREFIX)$(MANSRC)/$$file.$(L)); \ @@\
 done     @!\
      @!\
-skip      @!\
-once
```

```
/*
* LinkFileList:
* Link a list of list of files from one place to another
 */
#define LinkFileList(step,list,dir,sub) @!\
step:: list       @@\
 @case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
 echo " cd" dir; cd dir; for i in list; do (set -x; $(LN) sub/$$i .); done


/*
* InstallMultipleDestFlags:
* Generate rules to install multiple files at once during a particular
* step in the build using a specific set of install flags.
*/
#define InstallMultipleDestFlags(step,list,dest,flags) @!\
step:: list       @@\
 _MakeInstallDirIgnore(dest) \ @@\
 for i in list; do \    @@\
  (set -x; $(INSTALL) -c flags \ @@\
   $$i $(INSTALL_PREFIX)^^^dest) || exit 1;\ @@\
 done

/*
* DeinstallMultipleDest:
* Generate rules to deinstall multiple files at once during a particular
* step in the build.
*/
#define DeinstallMultipleDest(step,list,dest) @!\
step::        @@\
 @case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
 for i in list; do \    @@\
  (set -x; $(RM) $(INSTALL_PREFIX)^^^dest/$$i); \ @@\
 done

/*
* InstallMultiple:
* Generate rules to install multiple
 files at once during the install
* step of the build using any install flags set in $(INSTALLFLAGS)
* and deinstall them.
*/
#define InstallMultiple(list,dest) @!\
InstallMultipleDestFlags(local_install,list,dest,$(INSTALLFLAGS)) @!\
DeinstallMultipleDest(local_deinstall,list,dest)


/*
```

```
* InstallMultipleFlags:
* Generate rules to install multiple files at once during the
* install step of the build using the given install flags.
*/
#define InstallMultipleFlags(list,dest,flags) @!\
InstallMultipleDestFlags(local_install,list,dest,flags) @!\
DeinstallMultipleDest(local_deinstall,list,dest)


/*
* InstallMultipleMan:
* Generate rules to install a variety of manual pages
* during the install.man step of the build.
*/
#define InstallMultipleMan(list,dest) @!\
InstallMultipleDestFlags(local_install.man,list,dest,$(INSTALLFLAGS)) @!\
DeinstallMultipleDest(local_deinstall.man,list,dest)


/*
* DependDependency:
* Generate rules to build the makedepend program.
*/
#define DependDependency()
    @!\
depend:: TOPDIR/mkdep    @!\
        @!\
TOPDIR/mkdep:      @!\
?TOP: @echo "You have to run Configure first."; exit 1 @!\
%TOP: @echo "You have to run Configure in $(TOP) first."; exit 1


/*
* DependTarget:
* Generate rules to compute dependencies for all files listed
* in $(SOURCES) (automatically generated macro).
*/
#define DependTarget()    @!\
+USRINC = $usrinc @!\
|once _DependTarget_    @!\
DependDependency()     @!\
        @!\
depend::       @@\
 ($(SED) '/^# DO NOT DELETE/q' Makefile && \ @@\
 $(MKDEP) $(SOURCES) | \   @@\
 $(SED) -e 's:/usr/lib[^ ]*::g; s:$(USRINC)[^ ]*::g; ' \ @@\
  -e '/: / b print' -e '$$ b print' -e 'H; d; n; : print' \ @@\
  -e 'x; s/\$$//; s/\\\n//g; s/ ^^ */ /g; s/ :/:/;' -e '/: *$$/d' \ @@\
```

```
 ) > Makefile.new    @@\
 cp Makefile Makefile.bak  @@\
 cp Makefile.new Makefile  @@\
 $(RM) Makefile.new    @!\
        @!\
-once


/*
* CleanTarget:
* Generate rules to remove any garbage files.
*/
#define CleanTarget()    @!\
?SUBDIRS:clean:
 sub_clean local_clean    @!\
%SUBDIRS:clean: local_clean       @!\
?SUBDIRS:realclean: sub_realclean local_realclean @!\
%SUBDIRS:realclean: local_realclean     @!\
?SUBDIRS:clobber: sub_clobber local_clobber   @!\
%SUBDIRS:clobber: local_clobber      @!\
        @!\
local_clean::       @@\
 if test -f core; then $(RM) core; fi @@\
 $(RM) *~ *.o     @!\
        @!\
local_realclean:: local_clean  @!\
?TOP: $(RM) -r UU     @!\
        @!\
local_clobber:: local_realclean  @!\
%TOP: $(RM) Makefile config.sh  @!\
?TOP: $(RM) config.sh config.h  @!\
?TOP: $(RM) -r .config    @!\
?TOP: $(RM) Makefile    @!\


/*
* InstallTarget:
* Generate rules to recursively install files
*/
#define InstallTarget()           @!\
?SUBDIRS:install:: local_install sub_install     @!\
%SUBDIRS:install:: local_install        @!\
?SUBDIRS:install.man:: maybe_install.man sub_install.man  @!\
%SUBDIRS:install.man:: maybe_install.man      @!\
?SUBDIRS:deinstall:: sub_deinstall local_deinstall    @!\
%SUBDIRS:deinstall::
 local_deinstall       @!\
?SUBDIRS:deinstall.man:: sub_deinstall.man maybe_deinstall.man @!\
```

```
%SUBDIRS:deinstall.man:: maybe_deinstall.man     @!\
                @!\
?MANSRC:install.man-yes: local_install.man      @!\
install.man-no:             @!\
?MANSRC:deinstall.man-yes: local_deinstall.man     @!\
deinstall.man-no:            @!\


/*
* TagsTarget:
* Generate rules to compute tags files for C source code.
*/
#define TagsTarget()    @!\
tags::        @@\
 $(CTAGS) -w *.[ch]    @@\
 $(CTAGS) -xw *.[ch] > tags  @!\
        @!\
local_clobber::      @@\
 $(RM) tags



/*
* BuildMakefileSH:
* Generate rules to build a Makefile.SH from an Jmakefile and any
* special jmake flags.  This is generally done automatically by the
* template or by any special Jmakefiles.
* This function will simply touch Makefile.SH if no $(TOP)/.package
* exists, assuming the Jmakefile is not in a production environment.
*/
#define BuildMakefileSH(jmakeflags) @!\
Makefile.SH:
 Jmakefile     @@\
 -@if test -f $(TOP)/.package; then \ @@\
  if test -f Makefile.SH; then \ @@\
   echo " $(RM) Makefile.SH~; $(MV) Makefile.SH Makefile.SH~"; \ @@\
   $(RM) Makefile.SH~; $(MV) Makefile.SH Makefile.SH~; \ @@\
  fi; \      @@\
  echo " $(JMAKE) -DTOPDIR=$(TOP) -DCURDIR=$(CURRENT)" jmakeflags; \ @@\
  $(JMAKE) -DTOPDIR=$(TOP) -DCURDIR=$(CURRENT) jmakeflags; \ @@\
 else touch $@; fi


/*
* BuildMakefile:
* Generate rules to build a Makefile from a Makefile.SH.
*/
#define BuildMakefile() @!\
```

```
Makefile: Makefile.SH    @@\
 /bin/sh Makefile.SH


/*
* MakefileTarget:
* Generate rules to build a normal Makefile.
*/
#define MakefileTarget()  @!\
BuildMakefileSH(^^)    @!\
BuildMakefile()


/*
* NormalObjectRule:
* Generate make rule to build usual object files.
*/
#define NormalObjectRule()   @!\
|once _ObjectRule_     @!\
|rule:.c.o:       @!\
|rule: $(CC) -c $(JCFLAGS) $<  @!\
|rule:        @!\
-once

/*
* NormalLibraryObjectRule:
* Generate make rules to build
 "normal" objects.
*/
#define NormalLibraryObjectRule() @!\
|once _ObjectRule_     @!\
|rule:.c.o:       @!\
|rule: $(RM) $@      @!\
|rule: $(CC) -c $(JCFLAGS) $<  @!\
|rule:        @!\
-once

/*
* ProfiledLibraryObjectRule:
* Generate make rules to build both profiled and "normal" objects.
*/
#define ProfiledLibraryObjectRule() @!\
all::        @@\
 @if [ ! -d profiled ]; then mkdir profiled; fi @!\
        @!\
|rule:.c.o:       @!\
|rule: $(RM) $@ profiled/$@   @!\
|rule: $(CC) -pg -c $(JCFLAGS) $*.c @!\
```

```
|rule: $(MV) $*.o profiled/$*.o  @!\
|rule: $(CC) -c $(JCFLAGS) $*.c  @!\
|rule:       @!\
local_clean::       @@\
 -@if [ -d profiled ]; then echo " $(RM) profiled/?*.o"; \ @@\
  $(RM) profiled/?*.o; fi


/*
* DebuggedLibraryObjectRule:
* Generate make rules to build both debuggable and "normal"
* objects.
*/
#define DebuggedLibraryObjectRule()     @!\
all::        @@\
 @if [ ! -d debugger ]; then mkdir debugger; fi @!\
        @!\
|rule:.c.o:       @!\
|rule: $(RM) $@
 debugger/$@   @!\
|rule: $(CC) -g -c $(JCFLAGS) $*.c @!\
|rule: $(MV) $*.o debugger/$*.o  @!\
|rule: $(CC) -c $(JCFLAGS) $*.c  @!\
|rule:       @!\
local_clean::      @@\
 -@if [ -d debugger ]; then echo " $(RM) debugger/?*.o"; \ @@\
  $(RM) debugger/?*.o; fi


/*
* DebuggedAndProfiledLibraryOjbectRule:
* Generate make rules to build debuggable, profiled, and "normal"
* objects.
*/
#define DebuggedAndProfiledLibraryObjectRule() @!\
all::        @@\
 @if [ ! -d profiled ]; then mkdir profiled; fi @@\
 @if [ ! -d debugger ]; then mkdir debugger; fi @!\
        @!\
|rule:.c.o:       @!\
|rule: $(RM) $@ profiled/$@ debugger/$@ @!\
|rule: $(CC) -pg -c $(JCFLAGS) $*.c  @!\
|rule: $(MV) $*.o profiled/$*.o   @!\
|rule: $(CC) -g -c $(JCFLAGS) $*.c  @!\
|rule: $(MV) $*.o debugger/$*.o   @!\
|rule: $(CC) -c $(JCFLAGS) $*.c   @!\
|rule:       @!\
local_clean::       @@\
```

```
 -@if [ -d profiled ]; then echo " $(RM) profiled/?*.o"; \ @@\
  $(RM) profiled/?*.o; fi   @@\
 -@if [ -d debugger ];
 then echo " $(RM) debugger/?*.o"; \ @@\
  $(RM) debugger/?*.o; fi


/*
* SharedLibraryObjectRule:
* Generate make rules to build shared and "normal" object files.
*/
#define SharedLibraryObjectRule()     @!\
all::       @@\
 @if [ ! -d shared ]; then mkdir shared; fi  @!\
        @!\
|rule:.c.o:       @!\
|rule: $(RM) $@ shared/$@   @!\
|rule: $(CC) -pic -c $(SHAREDCODEDEF) $(SHLIBDEF) $(JCFLAGS) $*.c @!\
|rule: $(MV) $*.o shared/$*.o  @!\
|rule: $(CC) -c $(SHLIBDEF) $(JCFLAGS) $*.c    @!\
|rule:       @!\
local_clean::      @@\
 -@if [ -d shared ]; then echo " $(RM) shared/?*.o"; \  @@\
  $(RM) shared/?*.o; fi

/*
* SharedAndDebuggedLibraryObjectRule:
* Generate make rules to build shared, debuggable, and "normal"
* object files.
*/
#define SharedAndDebuggedLibraryObjectRule() @!\
all::         @@\
 @if [ ! -d shared ]; then mkdir shared; fi  @@\
 @if [ ! -d debugger ]; then mkdir debugger; fi @!\
          @!\
|rule:.c.o:        @!\
|rule: $(RM) $@ shared/$@ debugger/$@  @!\
|rule:
 $(CC) -pic -c $(SHAREDCODEDEF) $(SHLIBDEF) $(JCFLAGS) $*.c @!\
|rule: $(MV) $*.o shared/$*.o    @!\
|rule: $(CC) -g -c $(SHLIBDEF) $(JCFLAGS) $*.c @!\
|rule: $(MV) $*.o debugger/$*.o    @!\
|rule: $(CC) -c $(SHLIBDEF) $(JCFLAGS) $*.c @!\
|rule:         @!\
local_clean::        @@\
 -@if [ -d shared ]; then echo " $(RM) shared/?*.o"; \  @@\
  $(RM) shared/?*.o; fi    @@\
 -@if [ -d debugger ]; then echo " $(RM) debugger/?*.o"; \ @@\
```

```
  $(RM) debugger/?*.o; fi

/*
* SpecialSharedAndDebuggedObjectRule:
* Generate rules to compile a file with special flags and to make
* shared and debuggable versions.
*/
#define SpecialSharedAndDebuggedObjectRule(objs,depends,options) @!\
all::        @@\
 @if [ ! -d shared ]; then mkdir shared; fi  @@\
 @if [ ! -d debugger ]; then mkdir debugger; fi @!\
        @!\
objs: depends       @@\
 $(RM) $@ shared/$@ debugger/$@  @@\
 $(CC) -pic -c $(SHAREDCODEDEF) $(SHLIBDEF) $(JCFLAGS) options $*.c @@\
 $(MV) $*.o shared/$*.o    @@\
 $(CC)
 -g -c $(SHLIBDEF) $(JCFLAGS) options $*.c   @@\
 $(MV) $*.o debugger/$*.o   @@\
 $(CC) -c $(SHLIBDEF) $(JCFLAGS) options $*.c

/*
* SpecialSharedObjectRule:
* Generate rules to compile a file with special flags and to make
* shared and debuggable versions.
*/
#define SpecialSharedObjectRule(objs,depends,options)  @!\
all::        @@\
 @if [ ! -d shared ]; then mkdir shared; fi  @!\
        @!\
objs: depends       @@\
 $(RM) $@ shared/$@      @@\
 $(CC) -pic -c $(SHAREDCODEDEF) $(SHLIBDEF) $(JCFLAGS) options $*.c @@\
 $(MV) $*.o shared/$*.o    @@\
 $(CC) -c $(SHLIBDEF) $(JCFLAGS) options $*.c


/*
* SpecialObjectRule:
* Generate rules to compile a file with special flags.
*/
#define SpecialObjectRule(objs,depends,options)  @!\
objs: depends       @@\
 $(RM) $@       @@\
 $(CC) -c $(JCFLAGS) options $*.c


/*
```

```
* SpecialProfiledObjectRule:
* Generate rules to compile a file with special flags and to make a
* profiled version.
*/
#define SpecialProfiledObjectRule(objs,depends,options)   @!\
all::        @@\
 @if
 [ ! -d profiled ]; then mkdir profiled; fi @!\
        @!\
objs: depends       @@\
 $(RM) $@ profiled/$@    @@\
 $(CC) -pg -c $(JCFLAGS) options $*.c @@\
 $(MV) $*.o profiled/$*.o   @@\
 $(CC) -c $(JCFLAGS) options $*.c


/*
* SpecialDebuggedObjectRule:
* Generate rules to compile a file with special flags and to make a
* debuggable version.
*/
#define SpecialDebuggedObjectRule(objs,depends,options) @!\
all::        @@\
 @if [ ! -d debugger ]; then mkdir debugger; fi @!\
        @!\
objs: depends       @@\
 $(RM) $@ debugger/$@    @@\
 $(CC) -g -c $(JCFLAGS) options $*.c @@\
 $(MV) $*.o debugger/$*.o   @@\
 $(CC) -c $(JCFLAGS) options $*.c


/*
* SpecialDebuggedAndProfiledObjectRule:
* Generate rules to compile a file with special flags and to make
* debuggable and profiled versions.
*/
#define SpecialDebuggedAndProfiledObjectRule(objs,depends,options) @!\
all::        @@\
 @if [ ! -d profiled ]; then mkdir profiled; fi @@\
 @if [ ! -d
 debugger ]; then mkdir debugger; fi @!\
        @!\
objs: depends       @@\
 $(RM) $@ profiled/$@ debugger/$@ @@\
 $(CC) -pg -c $(JCFLAGS) options $*.c @@\
 $(MV) $*.o profiled/$*.o   @@\
 $(CC) -g -c $(JCFLAGS) options $*.c @@\
```

```
 $(MV) $*.o debugger/$*.o   @@\
 $(CC) -c $(JCFLAGS) options $*.c


/*
* NormalLibraryTarget:
* Generate rules to create a library. The 'srclist' and 'objlist'
* parameters are added to SOURCES and OBJECTS macros. The 'srclist'
* is not otherwise used by this rule, but is necessary for make depend.
*/
#define NormalLibraryTarget(libname,srclist,objlist) @!\
++OBJECTS objlist @!\
++SOURCES srclist @!\
NormalLibraryObjectRule()  @!\
AllTarget(lib^^libname.a)  @!\
        @!\
lib^^libname.a: objlist   @@\
 $(RM) $@     @@\
 $(AR) $@ objlist   @@\
 $(RANLIB) $@


/*
* NormalSharedLibraryTarget:
* Generate rules to create a shared library; build it into a
* different name so that the we don't hose people by having the
* library gone for long periods.
*/
#define
 NormalSharedLibraryTarget(libname,rev,solist) @!\
AllTarget(lib^^libname.so.rev) @!\
        @!\
lib^^libname.so.rev:  solist  @@\
 $(RM) $@~      @@\
 (cd shared; $(LD) -o ../$@~ -assert pure-text solist)  @@\
 $(RM) $@       @@\
 $(MV) $@~ $@

/*
* NormalSharedLibraryDataTarget:
* Generate rules to create shlib data file; build it into a
* different name so that the we don't hose people by having the
* library gone for long periods.
*/
#define NormalSharedLibraryDataTarget(libname,rev,salist) @!\
AllTarget(lib^^libname.sa.rev) @!\
        @!\
lib^^libname.sa.rev:  salist  @@\
```

```
 $(RM) $@      @@\
 $(AR) $@ salist     @@\
 $(RANLIB) $@


/*
* NormalLibraryTarget2:
* Generate rules to create a library in two steps.  This is used to
* create libraries with large numbers of files.
*/
#define NormalLibraryTarget2(libname,srclist,objlist1,objlist2) @!\
++SOURCES srclist @!\
++OBJECTS objlist1 @!\
++OBJECTS objlist2 @!\
NormalLibraryObjectRule()   @!\
AllTarget(lib^^libname.a)   @!\
        @!\
lib^^libname.a:
 objlist1 objlist2 @@\
 $(RM) $@      @@\
 $(AR) $@ objlist1    @@\
 $(AR) $@ objlist2    @@\
 $(RANLIB) $@


/*
* ProfiledLibraryTarget:
* Generate rules to create a profiled library.
*/
#define ProfiledLibraryTarget(libname,srclist,objlist) @!\
++SOURCES srclist @!\
++OBJECTS objlist @!\
AllTarget(lib^^libname^^_p.a)  @!\
        @!\
lib^^libname^^_p.a: objlist   @@\
 $(RM) $@      @@\
 cd profiled; $(AR) ../$@ objlist @@\
 $(RANLIB) $@


/*
* DebuggedLibraryTarget:
* Generate rules to create a debuggable library.
*/
#define DebuggedLibraryTarget(libname,srclist,objlist) @!\
++SOURCES srclist @!\
++OBJECTS objlist @!\
AllTarget(lib^^libname^^_d.a)  @!\
```

```
        @!\
lib^^libname^^_d.a: objlist   @@\
 $(RM) $@       @@\
 cd debugger; $(AR) ../$@ objlist @@\
 $(RANLIB) $@


/*
* AliasedLibraryTarget:
* Generate rules to link one library to another.
*/
#define AliasedLibraryTarget(libname,alias) @!\
AllTarget(lib^^alias.a)   @!\
        @!\
lib^^alias.a:
 lib^^libname.a @@\
 $(RM) $@     @@\
 $(LN) lib^^libname.a $@


/*
* PrelinkedRelocatableTarget:
* Generate rules to produce a relocatable object file instead of a
* library.
*/
#define PrelinkedRelocatableTarget(objname,objlist,libs) @!\
AllTarget(objname.o)    @!\
        @!\
objname.o: objlist     @@\
 $(RM) $@      @@\
 $(LD) $(JLDFLAGS) -r objlist -o $@ libs


/*
* NormalObjectTarget:
* Generate rules to produce a single object file.o from a file.c.
*/
#define NormalObjectTarget(file) @!\
++SOURCES file^^.c     @!\
AllTarget(file^^.o)     @!\
NormalObjectRule()

/*
* NormalRelocatableTarget:
* Generate rules to produce a relocatable object file instead of a
* library.
*/
#define NormalRelocatableTarget(objname,objlist) @!\
```

```
AllTarget(objname.o)    @!\
        @!\
objname.o: objlist     @@\
 $(RM) $@      @@\
 $(LD) $(JLDFLAGS) -r objlist -o $@


/*
* ProfiledRelocatableTarget:
* Generate rules to produce a profiled relocatable object file
* instead
 of a library.
*/
#define ProfiledRelocatableTarget(objname,objlist) @!\
AllTarget(objname^^_p.o)  @!\
        @!\
objname^^_p.o: objlist   @@\
 $(RM) $@     @@\
 $(LD) -X -r objlist -o $@


/*
* DebuggedRelocatableTarget:
* Generate rules to produce a debuggable relocatable object file
* instead of a library.
*/
#define DebuggedRelocatableTarget(objname,objlist) @!\
AllTarget(objname^^_d.o)  @!\
        @!\
objname^^_d.o: objlist   @@\
 $(RM) $@     @@\
 $(LD) -X -r objlist -o $@

/*
* LintLibraryTarget:
* Generate rules to create a lint library.  Note that the lint
* library is always forced to be newer than the library itself.
*/
#define LintLibraryTarget(libname,srclist) @!\
lintlib:: llib-l^^libname.ln @!\
        @!\
llib-l^^libname.ln: srclist  @@\
 $(RM) $@     @@\
 $(LINT) $(LINTLIBFLAG)^^libname $(LINTFLAGS) srclist


/*
* NormalLintTarget:
```

```
* Generate rules to lint a set of sources.
*/
#define NormalLintTarget(srclist) @!\
lint:	@@\
 $(LINT) $(LINTFLAGS) srclist
 $(LINTLIBS)


/*
* LintTarget:
* Generate rules to lint $(SOURCES) (automatically generated)
*/
#define LintTarget()	@!\
|once _LintTarget_	@!\
NormalLintTarget($(SOURCES)) @!\
-once


/*
* LinkSourceFile:
* Snag source file from some other directory
*/
#define LinkSourceFile(src,dir)	@!\
src:	dir/src	@@\
 $(RM) $@	@@\
 $(LN) $? $@	@!\


/*
* MakeSubincludesForBuild:
* Make includes in sub directories.
*/
#define MakeSubincludesForBuild(step,dir,srclist) @!\
step::	dir srclist	@@\
 @-(list=`echo srclist | sed -e 's/[^ ]*\//g'`; \	@@\
  set -x; cd dir; $(RM) $$list)	@@\
 @for i in srclist; do \	@@\
  (set -x; cd dir; $(LN) ../$$i .) || exit 1; \	@@\
 done	@!\
	@!\
MakeDirectories(dir,dir)	@!\
	@!\
local_realclean::	@@\
 @-(if [ -d dir ]; then \	@@\
  list=`echo srclist | sed -e 's/[^ ]*\//g'`; \	@@\
  set -x; cd dir; $(RM) $$list; fi)
```

```
/*
* CommonSubdirsRule:
* Rule for making $(TARGET) in
 every subdirectory, with $(VERB) as
* verbose message and $(FLAGS) as additional flags.
*/
#define CommonSubdirsRule(dirs) @!\
subdirs:       @@\
 @case '${MFLAGS}' in *[ik]*) set +e;; esac; \   @@\
 for i in dirs ;\     @@\
 do \        @@\
  (cd $$i ; echo $(VERB) "in $(DIR)$$i..."; \  @@\
   $(MAKE) $(MFLAGS) $(FLAGS) $(TARGET)) || exit 1; \ @@\
 done


/*
* NamedTargetSubdirsRule:
* Recursively make a series of steps in the specified directories.
*/
#define NamedTargetSubdirsRule(dirs,name,verb,flags) @!\
name::         @@\
 @case '${MFLAGS}' in *[ik]*) set +e;; esac; \  @@\
 for i in dirs ;\     @@\
 do \        @@\
  (cd $$i ; echo verb "in $(DIR)$$i..."; \ @@\
   $(MAKE) $(MFLAGS) flags name) || exit 1; \ @@\
 done


/*
* NamedTargetSubdirs:
* Recursively make a series of steps.
*/
#define NamedTargetSubdirs(name,verb,flags)  @!\
name::          @@\
 @$(MAKE) subdirs TARGET=name VERB=verb FLAGS=flags


/*
* NamedSubTargetSubdirs:
* Recursively make a series of steps,
 like NamedTargetSubdirs.
* However, the supplied "name" has "sub_" prefixed to it.
*/
#define NamedSubTargetSubdirs(name,verb,flags) @!\
sub_^^^name::          @@\
 @$(MAKE) subdirs TARGET=name VERB=verb FLAGS=flags
```

```
/*
* NamedDepthTargetSubdirs:
* Recursively make a series of steps. We first enter the
* subdirectories, then perform the local entries.
* The supplied "name" has "sub_" prefixed to it.
*/
#define NamedDepthTargetSubdirs(name,verb,flags)  @!\
sub_^^^name::      @@\
 @$(MAKE) subdirs TARGET=name VERB=verb FLAGS=flags @@\
 @echo "Back to $(CURRENT) for "name^^...


/*
* MakeSubdirs:
* Generate rules to do makes in the given subdirectories.
*/
#define MakeSubdirs() \
NamedTargetSubdirs(all,"Making all",^^)


/*
* DependDirs:
* Generate rules to recursively compute dependencies as part of the
* make depend step.
*/
#define DependDirs(dirs) \
NamedTargetSubdirsRule(dirs,depend,"Depending",^^)


/*
* DependSubdirs:
* Generate rules to recursively compute dependencies
 as part of the
* make depend step.
*/
#define DependSubdirs() \
DependDirs($(SUBDIRS))


/*
* InstallSubdirs:
* Generate rules to recursively install and deinstall programs and
* files.
*/
#define InstallSubdirs() \
NamedSubTargetSubdirs(install,"Installing",^^) @!\
NamedDepthTargetSubdirs(deinstall,"Deinstalling",^^)
```

```
/*
* InstallManSubdirs:
* Generate rules to recursively install and deinstall manual pages.
*/
#define InstallManSubdirs() \
NamedSubTargetSubdirs(install.man,"Installing man pages",^^) @!\
NamedDepthTargetSubdirs(deinstall.man,"Deinstalling man pages",^^)


/*
* IncludesSubdirs:
* Generate rules to recursively put include files in build
*/
#define IncludesSubdirs() \
NamedTargetSubdirs(includes,including,^^)


/*
* CleanSubdirs:
* Generate rules to recursively clean out garbage files.
*/
#define CleanSubdirs() \
NamedDepthTargetSubdirs(clean,"Cleaning",^^) @!\
NamedDepthTargetSubdirs(realclean,"Real cleaning",^^) @!\
NamedDepthTargetSubdirs(clobber,"Clobbering",^^)


/*
 * TagSubdirs:
* Generate rules to recursively create tags files.
*/
#define TagSubdirs(dirs) \
NamedTargetSubdirsRule(dirs,tag,"Tagging",^^)

/*
* MakeLintSubdirs:
* Generate rules to recursively lint directories as part of the
* named step.
*/
#define MakeLintSubdirs(dirs,target) \
NamedTargetSubdirsRule(dirs,target,"Linting",^^)


/*
* LintDirs:
* Generate rules to recursively lint directories as part of the
```

```
* make lint step.
*/
#define LintDirs(dirs) \
MakeLintSubdirs(dirs,lint)


/*
* LintSubdirs:
* Generate rules to recursively lint directories as part of the
* make lint step.
*/
#define LintSubdirs() \
LintDirs($(SUBDIRS))


/*
* MakeDirs:
* Creates a set of directories, even if some directories in the path
* do not already exist. There should be no '@!' at the end of the
* '#define' line, because this macro is used *inside* building rules.
*/
#define MakeDirs(dirs) \
 @case '${MFLAGS}' in *[i]*) set +e;; esac; \   @@\
 for dir in dirs;
 do \         @@\
  (set -x; test -d $$dir || $(INSTALLDIR) $$dir) || \ @@\
  exit 1; \  @@\
 done

/*
* _MakeInstallDirs:
* Creates a set of intall directories, even if some directories in the path
* do not already exist. There should be no '@!' at the end of the
* '#define' line, because this macro is used *inside* building rules.
*/
#define _MakeInstallDirs(dirs) \
 @case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
 for dir in dirs; do \       @@\
  _MakeInstallDir($$dir) \     @@\
 done

/*
* _MakeInstallDir:
* Internal macro to create a missing install directory.
*/
#define _MakeInstallDir(dir) \
 (set -x; test -d $(INSTALL_PREFIX)^^^dir || \ @@\
  $(INSTALLDIR) $(INSTALL_PREFIX)^^^dir);
```

```
/*
* _MakeInstallDirIgnore:
* Same as _MakeInstallDir but handles "make -i" as well.
*/
#define _MakeInstallDirIgnore(dir) \
 @case '${MFLAGS}' in *[i]*) set +e;; esac;  \ @@\
 _MakeInstallDir(dir)

/*
* _RmInstallDirs:
* Removes a set of intall directories.
* There should be no '@!'
 at the end of the '#define' line, because this
* macro is used *inside* building rules.
*/
#define _RmInstallDirs(dirs) \
 @case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
 for dir in dirs; do \       @@\
  (set -x; test -d $$dir && $(RM) -r $(INSTALL_PREFIX)$$dir); \ @@\
 done

/*
* MakeDirectories:
* Generate rules to create a hierarchy of directories.
*/
#define MakeDirectories(step,dirs)  @!\
step::         @@\
 MakeDirs(dirs)


/*
* MakeInstallDirectories:
* Generate a rule to create a set of directories at installation
* time (removed by deinstall).
*/
#define MakeInstallDirectories(dirs) @!\
local_install::    @@\
 _MakeInstallDirs(dirs) @!\
       @!\
local_deinstall::   @@\
 _RmInstallDirs(dirs)


/*
* MakeLintLibSubdirs:
* Generate rules to recursively create lint libraries.
*/
```

```
#define MakeLintLibSubdirs(dirs) @!\
MakeLintSubdirs(dirs,lintlib)


/*
* MakeMakeSubdirs:
* Generate rules to recursively recreate target as part of the
* specified step in the build.
  This assumes Makefile.SH has
* already been built (which is the case for a delivery), but does
* not rely on the existence of a Makefile.
*/
#define MakeMakeSubdirs(target) @!\
target::        @@\
 @case '${MFLAGS}' in *[ik]*) set +e;; esac; \ @@\
 for i in $(SUBDIRS);\    @@\
 do \        @@\
  echo "Making "target" in $(DIR)$$i..."; \ @@\
  (cd $$i || exit 1; \   @@\
  if test ! -f Makefile; then /bin/sh Makefile.SH; fi; \ @@\
  $(MAKE) $(MFLAGS) target) || exit 1;\ @@\
 done


/*
* MakeMakefilesSH:
* Generate rules to recursively recreate target as part of the
* specified step in the build.  If $(TOP) is set to an absolute
* path, don't prepend the ../ prefix.  This makes running things
* outside of the source tree to be much easier.
*/
#define MakeMakefilesSH()  @!\
Makefiles.SH:: Makefile.SH    @@\
 @case '${MFLAGS}' in *[ik]*) set +e;; esac; \ @@\
 for i in $(SUBDIRS);\     @@\
 do \        @@\
  case "$(DIR)$$i/" in \        @@\
  ^^*^^/^^*^^/^^*^^/^^*^^/) newtop=../../../..;;
 \ @@\
  ^^*^^/^^*^^/^^*^^/) newtop=../../..;; \    @@\
  ^^*^^/^^*^^/) newtop=../..;; \      @@\
  *^^/) newtop=..;; \         @@\
  esac; \            @@\
  case "$(TOP)" in \    @@\
  /^^*) newtop="$(TOP)" ;; \  @@\
  esac; \       @@\
  echo "Making Makefiles.SH in $(DIR)$$i..."; \ @@\
  (cd $$i || exit 1; \   @@\
```

```
   if test -f Jmakefile; then \ @@\
    $(MAKE) $(MFLAGS) -f ../Makefile \ @@\
     Makefile TOP=$$newtop CURRENT=$(DIR)$$i && \  @@\
    $(MAKE) $(MFLAGS) Makefiles.SH; \ @@\
   fi; \      @@\
  ) || exit 1; \ @@\
 done


/*
* MakefileSubdirs:
* Generate rules to create Makefiles.
*/
#define MakefileSubdirs()  @!\
MakeMakeSubdirs(Makefiles)  @!\
MakeMakefilesSH()


/*
* CppScriptTarget:
* Generate rules to create a shell script by running the input
* through cpp.
*/
#define CppScriptTarget(dst,src,defs,deplist) @!\
dst::  src deplist      @@\
 $(RM) $@       @@\
 $(CPP) defs <src | \    @@\
  sed -e '/^#  *[0-9][0-9]*  *.*$$/d' >$@  @@\
 chmod a+x $@


/*
 * MakeScriptFromCpp:
* Generate rules to create a script from a file with a
* .cpp suffix.
*/
#define MakeScriptFromCpp(name,defs) @!\
CppScriptTarget(name,name.cpp,defs,^^)


/*
* ShellScriptTargetExt:
* Generate rules to create and install a set of scripts from
* ext files (.sh and .SH are the most common examples). Man pages
* derived from the name of the scripts are also installed unless
* NoManPages() is specified.
*/
#define ShellScriptTargetExt(scripts,ext) @!\
```

```
++SCRIPTS scripts @!\
SimpleShellScriptTargetExt(scripts,ext)  @!\
InstallScripts()       @!\
InstallManScripts()


/*
* ShellScriptTarget:
* Generate rules to create and install a set of scripts from
* .SH files. Man pages derived from the name of the scripts are
* also installed unless NoManPages() is specified.
*/
#define ShellScriptTarget(scripts) @!\
ShellScriptTargetExt(scripts,.SH)


/*
* SimpleShellScriptTargetExt:
* Generate rules to create a set of scripts from ext files where
* ext is usually
 something like .sh or .SH, or whatever file
* extension you like..
*/
#define SimpleShellScriptTargetExt(scripts,ext) @!\
AllTarget(scripts)   @!\
       @!\
|expand s!scripts!   @!\
!s: !s^^ext     @@\
 /bin/sh !s^^ext   @!\
       @!\
-expand


/*
* SimpleShellScriptTarget:
* Generate rules to create a set of scripts from .SH files.
*/
#define SimpleShellScriptTarget(scripts) @!\
SimpleShellScriptTargetExt(scripts,.SH)


/*
* ShellScriptLongTarget:
* Generate rules to create a set of scripts from .SH files where
* the name of the generated file is different from the basename of
* the .SH file (when, for instance, the total length with the .SH
* extension would not leave enough space for RCS ,v extension).
*/
```

```
#define ShellScriptLongTarget(basename,scriptname) @!\
++LSCRIPTS scriptname @!\
AllTarget(scriptname)  @!\
       @!\
scriptname: basename^^.SH @@\
 /bin/sh basename^^.SH @!\
       @!\
InstallScripts()   @!\
?NOMAN:|skip    @!\
InstallManPageLong(basename,$(MANSRC),scriptname) @!\
-skip


/*
 * ForceTarget:
* The force target will force reconstruction of all the other
* targets which include .FORCE in their own dependencies.
*/
#define ForceTarget() @!\
|once _force_   @!\
.FORCE:     @!\
      @!\
-once


/*
* RemoteTargetDependency:
* A local target may rely on a remote dependency (e.g. a library)
* made in a separate directory. This rule explicits the dependency
* and forces a make of that dependency in the remote directory.
*/
#define RemoteTargetDependency(target,directory,dependency) @!\
RemoteDependency(directory,dependency) @!\
target: directory/^^^dependency @!\


/*
* RemoteDependency:
* Specify rules for making a remote dependency.
*/
#define RemoteDependency(directory,dependency) @!\
ForceTarget()       @!\
|once =directory/^^^dependency=   @!\
directory/^^^dependency: .FORCE   @@\
 @echo "Checking "^^^dependency" in "^^^directory"..." @@\
 cd ^^^directory; $(MAKE) ^^^dependency @@\
 @echo "Continuing in $(CURRENT)..." @!\
     @!\
```

```
-once

/*
 * SetSubdirs:
* Actually forces the definition of SUBDIRS, and lets the user
* specify what the sub-directories are.  This will be added to the
* customization part.
*/
#define SetSubdirs(subdirs) @!\
>SUBDIRS @!\
+SUBDIRS = subdirs


/*
* NoManPages:
* Actually forces the definition of NOMAN, which tells the jmake
* program to not generate rules for installing manual pages.
*/
#define NoManPages() @!\
>NOMAN


/*
* Expand:
* This powerful macro expands the `rule' given a `pattern'. It
* relies on a built-in command in jmake. The expansion is
* documented in the short notes file that comes with jmake and
* gives some insights on the internal syntax.
*/
#define Expand(rule, pattern) @!\
|expand pattern @!\
rule @!\
-expand


/*
* Lex and yacc stuff.
*/

/*
* YaccRule:
* This is the rule which is used to build a .c file from a .y file.
*/
#define YaccRule() @!\
AddSuffix(.y)     @!\
|once _YaccRule_    @!\
|rule:.y.c:      @!\
|rule: $(YACC) $(JYFLAGS)
```

```
 $< @!\
|rule: $(MV) y.tab.c $@   @!\
|rule:       @!\
-once

/*
* SimpleYaccTarget:
* Declare a yacc base.y file to be used in the building of the
* specified target program. The source file must be given without
* its final .y extension. The name of the .c and .o will be
* derived from the source file basename provided.
*/
#define SimpleYaccTarget(program,base) @!\
++SOURCES base.y @!\
++OBJECTS base.o @!\
YaccRule()    @!\
program: base.c   @!\
      @!\
local_realclean::  @@\
 $(RM) base.c  @!\


/*
* ComplexYaccTarget:
* Declare a yacc base.y file to be used in the building of the
* specified target program. The source file must be given without
* its final .y extension. The name of the .c and .o will be
* derived from the source file basename provided.
* The difference with SimpleYaccTarget is the identifying process
* where all the 'yy' are replaced by the specified prefix.
*/
#define ComplexYaccTarget(program,base,prefix) @!\
++SOURCES base.y @!\
++OBJECTS base.o
 @!\
program: base.c   @!\
      @!\
base.c: base.y     @@\
 $(YACC) $(JYFLAGS) base.y @@\
 $(SED) -e 's/yy\(.\)/prefix\1/g' < y.tab.c > base.c @@\
 $(SED) -e 's/yy\(.\)/prefix\1/g' < y.tab.h > base.h @@\
 $(RM) y.tab.c y.tab.h @!\
       @!\
local_realclean::  @@\
 $(RM) base.c  @!\


/*
```

```
* SimpleYaccInclude:
* Declare that program will need an include file produced by
* the output of yacc on base.y, which typically produces a file
* named y.tab.h, which will be renamed as base.h.
* The only problem is that the dependencies towards base.h have
* to be manually given in the Jmakefile.
*/
#define SimpleYaccInclude(base) @!\
base.h: base.c  @@\
 @if test -f y.tab.h; then \ @@\
  echo " $(MV) y.tab.h $@"; \ @@\
  $(MV) y.tab.h $@; \  @@\
 fi       @!\
       @!\
local_realclean::    @@\
 $(RM) base.h

/*
* ComplexYaccInclude:
* Declare that program will need an include file produced by
* the output of yacc on base.y, which typically produces a file
* named y.tab.h, which will
 be renamed as base.h.
* The difference with SimpleYaccInclude is the identifying process
* of the y.tab.h file where all 'yy' are renamed to prefix.
* The only problem is that the dependencies towards base.h have
* to be manually given in the Jmakefile.
*/
#define ComplexYaccInclude(base,prefix) @!\
base.h: base.c  @@\
 @if test -f y.tab.h; then \ @@\
  echo " $(SED) -e 's/yy\(.\)/prefix\1/g' < y.tab.h > base.h"; \ @@\
  $(SED) -e 's/yy\(.\)/prefix\1/g' < y.tab.h > base.h; \ @@\
  echo " $(RM) y.tab.h"; \ @@\
  $(RM) y.tab.h; \  @@\
 elif test -f base.h; then \ @@\
  echo " $(CP) base.h base.ht"; \ @@\
  $(CP) base.h base.ht; \ @@\
  echo " $(SED) -e 's/yy\(.\)/prefix\1/g' < base.ht > base.h"; \ @@\
  $(SED) -e 's/yy\(.\)/prefix\1/g' < base.ht > base.h; \ @@\
  echo " $(RM) base.ht"; \ @@\
  $(RM) base.ht; \  @@\
 fi       @!\
       @!\
local_realclean::    @@\
 $(RM) base.h
```

```
/*
* NormalYaccTarget:
* Declare a yacc base.y file which should produce a base.c and
* base.h file
 as derived from the output of yacc, to be used by
* the specified program.
*/
#define NormalYaccTarget(program,base) @!\
SimpleYaccTarget(program,base) @!\
SimpleYaccInclude(base)


/*
* IdentifiedYaccTarget:
* Declare a yacc base.y file which should produce a base.c and
* base.h file as derived from the output of yacc, to be used by
* the specified program. The specified prefix is used to remplace
* all the 'yy' in the generated file, for use when more than a
* single parser is needed in one executable.
*/
#define IdentifiedYaccTarget(program,base,prefix) @!\
ComplexYaccTarget(program,base,prefix) @!\
ComplexYaccInclude(base,prefix)


/*
* SimpleLexTarget:
* This declares a lex base.l file which is to be ran through
* lex to produce a base.c file.
*/
#define SimpleLexTarget(program,base) @!\
++SOURCES base.l @!\
++OBJECTS base.o @!\
|once _LexRule_     @!\
|rule:.l.c:      @!\
|rule: $(LEX) $(JLFLAGS) $<  @!\
|rule: $(MV) lex.yy.c $@  @!\
|rule:       @!\
-once       @!\
AddSuffix(.l)   @!\
program:
 base.c   @!\
     @!\
local_realclean::  @@\
 $(RM) base.c  @!\


/*
```

```
* IdentifiedLexTarget:
* This declares a lex base.l file which is to be ran through
* lex to produce a base.c file. The prefix is used to replace
* the 'yy', so that the lexical analyzer may be identified.
*/
#define IdentifiedLexTarget(program,base,prefix) @!\
++SOURCES base.l @!\
++OBJECTS base.o @!\
program: base.c   @!\
     @!\
base.c: base.l     @@\
 $(LEX) $(JLFLAGS) base.l @@\
 $(SED) -e 's/yy\(.\)/prefix\1/g' < lex.yy.c > base.c @@\
 $(RM) lex.yy.c    @!\
     @!\
local_realclean::  @@\
 $(RM) base.c  @!\


/*
* NormalLexDependTarget:
* Declare that program will need an include file produced by
* the output of lex on base.l, which typically produces a file
* named lex.yy.c which will be renamed as base.c. Besides, the
* lexical analyzer needs the file parser.h produced by running
* parser.y through yacc and renaming y.tab.h as parser.h.
*/
#define NormalLexDependTarget(program,base,parser)
 @!\
base.o: parser.h @!\
    @!\
SimpleLexTarget(program,base)


/*
* IdentifiedLexDependTarget:
* Declare that program will need an include file produced by
* the output of lex on base.l, which typically produces a file
* named lex.yy.c which will be renamed as base.c. Besides, the
* lexical analyzer needs the file parser.h produced by running
* parser.y through yacc and renaming y.tab.h as parser.h.
* The lexical analyzer is identified with the supplied prefix,
* which replaces the regular 'yy' prefix in the symbol names.
*/
#define IdentifiedLexDependTarget(program,base,parser,prefix) @!\
base.o: parser.h @!\
    @!\
IdentifiedLexTarget(program,base,prefix)
```

```
/*
* NormalParserTarget:
* Specify that program is using the lex/yacc combination to
* produce a parser. The lexic and parser parameters are the
* base name of the .l and .y file, respectively.
*/
#define NormalParserTarget(program,lexic,parser) @!\
NormalLexDependTarget(program,lexic,parser)
 @!\
NormalYaccTarget(program,parser)


/*
* IdentifiedParserTarget:
* Specify that program is using the lex/yacc combination to
* produce a parser. The lexic and parser parameters are the
* base name of the .l and .y file, respectively. The parser
* produced is identified via its prefix, which replaces all
* the normally supplied 'yy' prefix, hence making it possible
* to have multiple parsers in a single executable.
*/
#define IdentifiedParserTarget(program,lexic,parser,prefix) @!\
IdentifiedLexDependTarget(program,lexic,parser,prefix) @!\
IdentifiedYaccTarget(program,parser,prefix)
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/files/Jmake.rules
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_hidnet.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_hidnet.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:20  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_hidnet hiddennet: cat sed myhostname mydomain Myread Oldconfig
?MAKE: -pick add $@ %<
```

```
?S:d_hidnet:
?S: This variable conditionally defines the symbol HIDDEN_NET, which
?S: tells the C program that it should pretend it is on a different
?S: host for purposes of advertising a mailing address.
?S:.
?S:hiddennet:
?S: This variable contains
 the value eventually given to the symbol
?S: HIDDEN_NET, if d_hidnet defines it.  If defined, it's the name
?S: of the host which serves as the mail server for a network that
?S: is invisible to the outside world.
?S:.
?C:HIDDEN_NET (HIDDENNET):
?C: This symbol, if defined, contains the host name that you want to
?C: advertise to the outside world.  This name can be different from
?C: your actual host name, as long as the machine you specify knows
?C: how to forward mail to you.
?C:.
?H:#$d_hidnet HIDDEN_NET "$hiddennet" /**/
?H:.
: now get the host name to advertise as our mailing address
case "$hiddennet" in
") dflt=n;;
*) dflt=y;;
esac
$cat <<EOM

Some sites are on "hidden" networks, in the sense that the network appears
to the outside world as a single machine.  The advertised name of any host
on this hidden network is the name of one machine on the local network which
knows how to forward mail to any other host on the hidden network.

Do you wish to advertise a different hostname
 to the world than the one your
own host ($myhostname$mydomain) has?

EOM
rp='Use "hidden" network?'
. ./myread
case "$ans" in
n*) d_hidnet="$undef" hiddennet=";;
*)
 d_hidnet="$define"
 echo " "
 case "$hiddennet" in
 ") dflt=`echo $mydomain | $sed -e 's/^\.//'`;;
 *) dflt="$hiddennet";;
 esac
```

```
 rp='What hostname do you wish to advertise?'
 . ./myread
 hiddennet="$ans"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_hidnet.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: usrinc.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:27:12  ram
?RCS: patch61: don't ask for the include path unless they are on a MIPS
?RCS:
?RCS: Revision 3.0.1.2  1995/05/12  12:24:36  ram
?RCS: patch54: ensure that ./mips always exists (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:18:31  ram
?RCS: patch23: ensure usrinc value is preserved across sessions (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:usrinc incpath mips_type:
 test cat echo n c Getfile Guess \
 Oldconfig eunicefix contains rm
?MAKE: -pick add $@ %<
?S:usrinc:
?S: This variable holds the path of the include files, which is
?S: usually /usr/include. It is mainly used by other Configure units.
?S:.
?S:incpath:
?S: This variable must preceed the normal include path to get hte
?S: right one, as in "$incpath/usr/include" or "$incpath/usr/lib".
?S: Value can be "" or "/bsd43" on mips.
?S:.
?S:mips_type:
```

```
?S: This variable holds the environment type for the mips system.
?S: Possible values are "BSD 4.3" and "System V".
?S:.
?D:usrinc='/usr/include'
?LINT:create mips
?T:xxx_prompt
?F:./mips
: What should the include directory be ?
echo " "
$echo $n "Hmm...  $c"
dflt='/usr/include'
incpath=''
?X: mips_type is used later, to add -DSYSTYPE_BSD43 to cppflags if needed.
mips_type=''
?X:
?X: Cannot put the following in Guess, or we get a circular dependency.
?X:
if $test -f /bin/mips && /bin/mips; then
 echo "Looks like a MIPS system..."
 $cat >usr.c
 <<'EOCP'
#ifdef SYSTYPE_BSD43
/bsd43
#endif
EOCP
 if cc -E usr.c > usr.out && $contains / usr.out >/dev/null 2>&1; then
  dflt='/bsd43/usr/include'
  incpath='/bsd43'
  mips_type='BSD 4.3'
 else
  mips_type='System V'
 fi
 $rm -f usr.c usr.out
 echo "and you're compiling with the $mips_type compiler and libraries."
 xxx_prompt=y
 echo "exit 0" >mips
else
 echo "Doesn't look like a MIPS system."
 xxx_prompt=n
 echo "exit 1" >mips
fi
chmod +x mips
$eunicefix mips
case "$usrinc" in
'') ;;
*) dflt="$usrinc";;
esac
case "$xxx_prompt" in
```

```
y) fn=d/
 echo " "
 rp='Where are the include files you want to use?'
 . ./getfile
 usrinc="$ans"
 ;;
*) usrinc="$dflt"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/usrinc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Config_sh.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  14:57:53  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.2  1995/01/11  14:53:31  ram
?RCS: patch45: moved path stripping from d_portable.U to end of Configure
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:50:37  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit ends up producing the config.sh
 script, which contains all the
?X: definitions figured out by Configure.  The add.Config_sh command knows
?X: which variables need to be remembered.  It also adds the EOT (ends the
?X: here document redirection with variable substitution).
?X:
?MAKE:Config_sh: cf_time cf_by test spitshell startsh myuname Myread \
 End Obsol_sh Loc +d_portable package src cat sed
?MAKE: -pick add.Config_sh $@ %<
```

```
?MAKE: -pick add $@ ./Obsol_sh
?MAKE: -pick close.Config_sh $@ %<
?F:!config.over !config.arch
?T:file sfile xsed
?LINT:unclosed EOT
: back to where it started
if test -d ../UU; then
 cd ..
fi

: configuration may be unconditionally patched via a 'config.arch' file
if $test -f config.arch; then
 echo "I see a config.arch file, loading it." >&4
 . ./config.arch
fi

: configuration may be patched via a 'config.over' file
if $test -f config.over; then
 echo " "
 dflt=y
 rp='I see a config.over file.  Do you wish to load it?'
 . UU/myread
 case "$ans" in
 n*) echo "OK, I'll ignore it.";;
 *) . ./config.over
  echo
 "Configuration override changes have been loaded."
  ;;
 esac
fi

@if d_portable
: in case they want portability, strip down executable paths
?X:
?X: Strip down paths in located executables. For each file, e.g. vi, there
?X: is a $vi variable whose value is for instance '/usr/bin/vi'. By resetting
?X: $vi to 'vi', we rely on the PATH variable to locate the executable...
?X: In order to allow vi='/usr/bin/nvi' which will strip down to vi='nvi',
?X: we can't just say 'eval $file="\$file"', we have to recourse to sed.
?X: We don't use basename since it is less portable than sed.
?X:
case "$d_portable" in
"$define")
 echo " "
 echo "Stripping down executable paths..." >&4
 xsed=$sed
 for file in $loclist $trylist; do
  eval sfile="\$$file"
```

```
  sfile=`echo $sfile | $xsed -e 's,.*/\(.*\),\1,'`
  eval $file="$sfile"
 done
 ;;
esac

@end
: create config.sh file
echo " "
echo "Creating config.sh..." >&4
$spitshell <<EOT >config.sh
$startsh
#
# This file was produced by running the
 Configure script. It holds all the
# definitions figured out by Configure. Should you modify one of these values,
# do not forget to propagate your changes by running "Configure -der". You may
# instead choose to run each of the .SH files by yourself, or "Configure -S".
#

# Package name      : $package
# Source directory  : $src
# Configuration time: $cf_time
# Configured by     : $cf_by
# Target system     : $myuname

EOT
?X: Command line options are saved by the Options.U unit in the
?X: temporary file UU/cmdline.opt
$test -f UU/cmdline.opt && $cat UU/cmdline.opt >> config.sh
$spitshell <<EOT >>config.sh
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Config_sh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_vfork.U,v $
```

```
?RCS: Revision 3.0.1.6  1994/08/29  16:18:21  ram
?RCS: patch32: set default to 'y' the first time
?RCS:
?RCS: Revision 3.0.1.5  1994/06/20  06:59:14  ram
?RCS: patch30: usevfork was not always properly set
?RCS:
?RCS: Revision 3.0.1.4  1994/05/13  15:20:56  ram
?RCS: patch27: modified to avoid spurious Whoa warnings (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/05/06  14:59:09  ram
?RCS: patch23: now explicitly ask whether vfork() should be used (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1993/10/16
  13:49:39  ram
?RCS: patch12: added magic for vfork()
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:06:57  ram
?RCS: patch10: removed automatic remapping of vfork on fork (WAD)
?RCS: patch10: added compatibility code for older config.sh (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_vfork usevfork: Inlibc Myread Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_vfork:
?S: This variable conditionally defines the HAS_VFORK symbol, which
?S: indicates the vfork() routine is available.
?S:.
?S:usevfork:
?S: This variable is set to true when the user accepts to use vfork.
?S: It is set to false when no vfork is available or when the user
?S: explicitly requests not to use vfork.
?S:.
?C:HAS_VFORK (VFORK):
?C: This symbol, if defined, indicates that vfork() exists.
?C:.
?H:#$d_vfork HAS_VFORK /**/
?H:.
?M:vfork: HAS_VFORK
?M:#ifndef HAS_VFORK
?M:#define vfork fork
?M:#endif
?M:.
?LINT:set d_vfork
: see if there is a vfork
val=''
set
```

```
 vfork val
eval $inlibc

: Ok, but do we want to use it. vfork is reportedly unreliable in
: perl on Solaris 2.x, and probably elsewhere.
case "$val" in
$define)
 echo " "
 case "$usevfork" in
 false) dflt='n';;
 *) dflt='y';;
 esac
 rp="Some systems have problems with vfork().  Do you want to use it?"
 . ./myread
 case "$ans" in
 y|Y) ;;
 *)
  echo "Ok, we won't use vfork()."
  val="$undef"
  ;;
 esac
 ;;
esac
?X:
?X: Only set it when final value is known to avoid spurious Whoas
?X: Then set usevfork accordingly to the current value, for next run
?X:
set d_vfork
eval $setvar
case "$d_vfork" in
$define) usevfork='true';;
*) usevfork='false';;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_vfork.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: d_safemcpy.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  15:41:12  ram
?RCS: patch61: improved overlapping copy check
?RCS: patch61: comfort them if they have memmove
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.4  1995/07/25  13:58:46  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.3  1995/03/21  08:47:26  ram
?RCS: patch52: swapped two first arguments of memcpy() calls
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:15:10
  ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:53:12  ram
?RCS: patch23: ensure string is not optimized in read-only memory (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_safemcpy: cat d_memcpy +cc +optimize +ccflags +libs +ldflags rm \
 d_memmove i_memory i_stdlib i_string i_unistd Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_safemcpy:
?S: This variable conditionally defines the HAS_SAFE_MEMCPY symbol if
?S: the memcpy() routine can do overlapping copies.
?S:.
?C:HAS_SAFE_MEMCPY (SAFE_MEMCPY):
?C: This symbol, if defined, indicates that the memcpy routine is available
?C: to copy potentially overlapping memory blocks. Otherwise you should
?C: probably use memmove() or memcpy(). If neither is defined, roll your
?C: own version.
?C:.
?H:#$d_safemcpy HAS_SAFE_MEMCPY /**/
?H:.
?F:!safemcpy
?LINT: set d_safemcpy
: can memcpy handle overlapping blocks?
?X:
 assume the worst
val="$undef"
case "$d_memcpy" in
"$define")
 echo " "
 echo "Checking to see if your memcpy() can do overlapping copies..." >&4
```

```
 $cat >foo.c <<EOCP
#$i_memory I_MEMORY
#$i_stdlib I_STDLIB
#$i_string I_STRING
#$i_unistd I_UNISTD
EOCP
 $cat >>foo.c <<'EOCP'
#include <stdio.h>
#ifdef I_MEMORY
#  include <memory.h>
#endif
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#ifdef I_STRING
#  include <string.h>
#else
#  include <strings.h>
#endif
#ifdef I_UNISTD
#  include <unistd.h>  /* Needed for NetBSD */
#endif
int main()
{
char buf[128], abc[128];
char *b;
int len;
int off;
int align;

/* Copy "abcde..." string to char abc[] so that gcc doesn't
  try to store the string in read-only memory. */
memcpy(abc, "abcdefghijklmnopqrstuvwxyz0123456789", 36);

for (align = 7; align >= 0; align--) {
 for (len = 36; len; len--) {
  b = buf+align;
  memcpy(b, abc, len);
  for (off = 1; off <= len; off++) {
   memcpy(b+off, b, len);
   memcpy(b, b+off, len);
   if (memcmp(b, abc, len))
    exit(1);
  }
 }
}
exit(0);
}
```

```
EOCP
 if
 $cc $optimize $ccflags $ldflags \
      -o safemcpy foo.c $libs >/dev/null 2>&1; then
  if ./safemcpy 2>/dev/null; then
   echo "Yes, it can."
   val="$define"
  else
   echo "It can't, sorry."
   case "$d_memmove" in
   "$define") echo "But that's Ok since you have memmove()." ;;
   esac
  fi
 else
  echo "(I can't compile the test program, so we'll assume not...)"
  case "$d_memmove" in
  "$define") echo "But that's Ok since you have memmove()." ;;
  esac
 fi
 ;;
esac
$rm -f foo.* safemcpy core
set d_safemcpy
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_safemcpy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getservbyname_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getservbyname_r getservbyname_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getservbyname_r:
?S: This variable conditionally defines the HAS_GETSERVBYNAME_R symbol,
?S: which indicates to the C program that the getservbyname_r()
?S: routine is available.
?S:.
?S:getservbyname_r_proto:
?S: This variable encodes the prototype of getservbyname_r.
```

```
?S: It is zero if d_getservbyname_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getservbyname_r
?S: is defined.
?S:.
?C:HAS_GETSERVBYNAME_R:
?C: This symbol, if defined, indicates
 that the getservbyname_r routine
?C: is available to getservbyname re-entrantly.
?C:.
?C:GETSERVBYNAME_R_PROTO:
?C: This symbol encodes the prototype of getservbyname_r.
?C: It is zero if d_getservbyname_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getservbyname_r
?C: is defined.
?C:.
?H:#$d_getservbyname_r HAS_GETSERVBYNAME_R /**/
?H:#define GETSERVBYNAME_R_PROTO $getservbyname_r_proto /**/
?H:.
?T:try hdrs d_getservbyname_r_proto
: see if getservbyname_r exists
set getservbyname_r d_getservbyname_r
eval $inlibc
case "$d_getservbyname_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getservbyname_r_proto:$usethreads" in
 ":define") d_getservbyname_r_proto=define
  set d_getservbyname_r_proto getservbyname_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getservbyname_r_proto" in
 define)
 case "$getservbyname_r_proto" in
 "|0) try='int getservbyname_r(const char*, const char*, struct servent*, char*,
 size_t, struct servent**);'
 ./protochk "$extern_C $try" $hdrs && getservbyname_r_proto=I_CCSBWR ;;
 esac
 case "$getservbyname_r_proto" in
 "|0) try='struct servent* getservbyname_r(const char*, const char*, struct servent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getservbyname_r_proto=S_CCSBI ;;
 esac
 case "$getservbyname_r_proto" in
 "|0) try='int getservbyname_r(const char*, const char*, struct servent*, struct servent_data*);'
 ./protochk "$extern_C $try" $hdrs && getservbyname_r_proto=I_CCSD ;;
 esac
 case "$getservbyname_r_proto" in
 "|0) d_getservbyname_r=undef
```

```
  getservbyname_r_proto=0
  echo "Disabling getservbyname_r, cannot determine prototype." >&4 ;;
 * ) case "$getservbyname_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getservbyname_r_proto="REENTRANT_PROTO_$getservbyname_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getservbyname_r has no prototype, not using it." >&4 ;;
  esac
  d_getservbyname_r=undef
  getservbyname_r_proto=0
  ;;
 esac
 ;;
*) getservbyname_r_proto=0
 ;;
esac
```

Found
 in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getservbyname_r.U
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```
?RCS: $Id: End.U,v 3.0 1993/08/18 12:04:51 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: End.U,v $
?RCS: Revision 3.0  1993/08/18  12:04:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit serves as the goal which forces make to choose all the units that
?X: ask questions.  The $W on the ?MAKE: line is the list of all symbols wanted.
?X: To force any unit to be included, copy this unit to your private U directory
?X: and add the name of the unit desired to the ?MAKE: dependency line.
?X:
?MAKE:End perllibs: $W cppstdin gzip zip
```

```
 libs usedl osname osvers
?MAKE: -pick add $@ %<
?S:perllibs:
?S: The list of libraries needed by Perl only (any libraries needed
?S: by extensions only will by dropped, if using dynamic loading).
?S:.
?INIT:perllibs="
?LINT:use $W
?LINT:use gzip zip
?LINT:change cppstdin
: Remove libraries needed only for extensions
: The appropriate ext/Foo/Makefile.PL will add them back in, if necessary.
: The exception is SunOS 4.x, which needs them.
case "${osname}X${osvers}" in
sunos*X4*)
   perllibs="$libs"
   ;;
*) case "$usedl" in
   $define|true|[yY]*)
     set X `echo " $libs " | sed -e 's@ -lndbm @ @' -e 's@ -lgdbm @ @' -e 's@ -lgdbm_compat @ @' -e 's@ -ldbm @
@' -e 's@ -ldb @ @'`
     shift
     perllibs="$*"
     ;;
   *) perllibs="$libs"
     ;;
   esac
   ;;
esac

?X: If the user has the cppstdin wrapper, perl.c will try to call
?X: CPPSTDIN, but that will point to a location in the build
?X: directory, not the installed version!.  Here, we'll just strip the
?X: name down to 'cppstdin',
 and rely on the fact that perl.c will
?X: then call SCRIPTDIR/cppstdin, but local things like 'make depend'
?X: will continue to work.
: Remove build directory name from cppstdin so it can be used from
: either the present location or the final installed location.
echo " "
: Get out of the UU directory to get correct path name.
cd ..
case "$cppstdin" in
`pwd`/cppstdin)
 echo "Stripping down cppstdin path name"
 cppstdin=cppstdin
 ;;
esac
```

```
cd UU

: end of configuration questions
echo " "
echo "End of configuration questions."
echo " "
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/End.U
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```
?RCS: $Id: d_sighold.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sighold.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:21  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sighold: Inlibc
?MAKE: -pick add $@ %<
?S:d_sighold:
?S: This variable conditionally defines HAS_SIGHOLD if sighold() is
?S: available to hold signals.
?S:.
?C:HAS_SIGHOLD:
?C: This symbol, if defined, indicates that the sighold routine is
?C: available to hold signals.
?C:.
?H:#$d_sighold HAS_SIGHOLD /**/
?H:.
?LINT:set d_sighold
:
 see if sighold exists
set sighold d_sighold
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sighold.U

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```
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:uidsize: Myread Typedef uidtype Compile run i_stdlib
?MAKE: -pick add $@ %<
?S:uidsize:
?S: This variable contains the size of a uidtype in bytes.
?S:.
?C:Uid_t_size:
?C: This symbol holds the size of a Uid_t in bytes.
?C:.
?H:#define Uid_t_size $uidsize  /* UID size */
?H:.
?T:yyy zzz
?F:!try
: Check size of UID
echo " "
case "$uidtype" in
*_t) zzz="$uidtype" ;;
*)   zzz="uid"  ;;
esac
echo "Checking the size of $zzz..." >&4
cat > try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include
 <stdlib.h>
#endif
int main() {
   printf("%d\n", (int)sizeof($uidtype));
   exit(0);
}
EOCP
set try
if eval $compile_ok; then
 yyy=`$run ./try`
 case "$yyy" in
 ") uidsize=4
```

```
  echo "(I can't execute the test program--guessing $uidsize.)" >&4
  ;;
 *) uidsize=$yyy
  echo "Your $zzz is $uidsize bytes long."
  ;;
 esac
else
 uidsize=4
 echo "(I can't compile the test program--guessing $uidsize.)" >&4
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/uidsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strcspn.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strcspn.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:33  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strcspn: Inlibc
?MAKE: -pick add $@ %<
?S:d_strcspn:
?S: This variable conditionally defines the HAS_STRCSPN symbol, which
?S: indicates to the C program that the strcspn() routine is available
?S: to scan strings.
?S:.
?C:HAS_STRCSPN (STRCSPN):
?C: This symbol, if defined, indicates that the strcspn routine is
?C: available to scan
 strings.
?C:.
?H:#$d_strcspn HAS_STRCSPN  /**/
?H:.
?LINT:set d_strcspn
: see if strcspn exists
set strcspn d_strcspn
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strcspn.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_accessx: Inlibc
?MAKE: -pick add $@ %<
?S:d_accessx:
?S: This variable conditionally defines the HAS_ACCESSX symbol, which
?S: indicates to the C program that the accessx() routine is available.
?S:.
?C:HAS_ACCESSX :
?C: This symbol, if defined, indicates that the accessx routine is
?C: available to do extended access checks.
?C:.
?H:#$d_accessx HAS_ACCESSX  /**/
?H:.
?LINT:set d_accessx
: see if accessx exists
set accessx d_accessx
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/acl/d_accessx.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_neterrno.U,v $
```

```
?RCS: Revision 3.0.1.3  1994/10/29  16:20:29  ram
?RCS: patch36: forgot to initialize 'val' to an empty value (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:22:10  ram
?RCS: patch32: removed spurious echo
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:02:05  ram
?RCS: patch30: created by ADO
?RCS:
?MAKE:i_neterrno: Inhdr +cc +ccflags rm_try Setvar
?MAKE: -pick add $@ %<
?S:i_neterrno:
?S: This variable
 conditionally defines the I_NET_ERRNO symbol, which
?S: indicates to the C program that <net/errno.h> exists and should
?S: be included.
?S:.
?C:I_NET_ERRNO:
?C: This symbol, if defined, indicates that <net/errno.h> exists and
?C: should be included.
?C:.
?H:#$i_neterrno I_NET_ERRNO  /**/
?H:.
?LINT:set i_neterrno
: see if net/errno.h is available
val=''
set net/errno.h val
eval $inhdr

: Unfortunately, it causes problems on some systems.  Arrgh.
case "$val" in
$define)
 cat > try.c <<'EOM'
#include <stdio.h>
#include <errno.h>
#include <net/errno.h>
int func()
{
 return ENOTSOCK;
}
EOM
 if $cc $ccflags -c try.c >/dev/null 2>&1; then
  echo "We'll be including <net/errno.h>." >&4
 else
  echo "We won't be including <net/errno.h>." >&4
  val="$undef"
 fi
 $rm_try
```

```
 ;;
esac
set i_neterrno
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_neterrno.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Rcs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Rcs.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This is a unit that helps people who write SH scripts and keep them under
?X: RCS, but don't think to protect the $Log and other $Id keywords from
?X: variable substitution (or people like me who do not like to).
?X:
?MAKE:Author Date Header Id Locker Log RCSfile Revision Source State: Oldconfig
?MAKE: -pick weed $@ %<
?LINT:describe Author
 Date Header Id Locker Log RCSfile Revision Source State
: preserve RCS keywords in files with variable substitution, grrr
?Author:Author='$Author'
?Date:Date='$Date'
?Header:Header='$Header'
?Id:Id='$Id'
?$Locker'
?Log:Log='$Log'
?RCSfile:RCSfile='$RCSfile'
?Revision:Revision='$Revision'
?Source:Source='$Source'
?State:State='$State'
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Rcs.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:uidformat: uidsize uidsign ivsize uvsize longsize intsize shortsize \
 ivdformat uvuformat test echo
?MAKE: -pick add $@ %<
?S:uidformat:
?S: This variable contains the format string used for printing a Uid_t.
?S:.
?C:Uid_t_f:
?C: This symbol defines the format string used for printing a Uid_t.
?C:.
?H:#define Uid_t_f  $uidformat  /**/
?H:.
: Check format string for UID
echo " "
$echo "Checking the format string to be used for uids..." >&4

case "$uidsign" in
-1) if $test X"$uidsize" = X"$ivsize"; then
  uidformat="$ivdformat"
 else
  if $test X"$uidsize" = X"$longsize"; then
   uidformat="'ld'"
  else
   if $test X"$uidsize" = X"$intsize"; then
    uidformat="'d'"
   else
    if $test X"$uidsize"
 = X"$shortsize"; then
     uidformat="'hd'"
    fi
   fi
  fi
 fi
 ;;
*) if $test X"$uidsize" = X"$uvsize"; then
  uidformat="$uvuformat"
 else
  if $test X"$uidsize" = X"$longsize"; then
   uidformat="'lu'"
  else
```

```
   if $test X"$uidsize" = X"$intsize"; then
    uidformat='"u"'
   else
    if $test X"$uidsize" = X"$shortsize"; then
     uidformat='"hu"'
    fi
   fi
  fi
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/uidf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_charsprf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_charsprf.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:49  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_charsprf: cat rm +cc Setvar
?MAKE: -pick add $@ %<
?S:d_charsprf:
?S: This variable conditionally defines CHARSPRINTF if this system
?S: declares "char *sprintf()" in stdio.h.  The trend seems to be to
?S: declare it as "int sprintf()".
?S:.
?C:CHARSPRINTF:
?C: This symbol is defined if this system declares "char *sprintf()" in
?C: stdio.h.
  The trend seems to be to declare it as "int sprintf()".  It
?C: is up to the package author to declare sprintf correctly based on the
?C: symbol.
?C:.
?H:#$d_charsprf CHARSPRINTF  /**/
?H:.
?F:!ucbsprf.c !ucbsprf
```

```
?LINT:set d_charsprf
: see if sprintf is declared as int or pointer to char
echo " "
$cat >ucbsprf.c <<'EOF'
int main()
{
 int sprintf();
 char buf[10];
 exit((unsigned long)sprintf(buf,"%s","foo") > 10L);
}
EOF
if $cc -o ucbsprf ucbsprf.c >/dev/null 2>&1 && ./ucbsprf; then
 echo "Your sprintf() returns (int)." >&4
 val="$undef"
else
 echo "Your sprintf() returns (char*)." >&4
 val="$define"
fi
set d_charsprf
eval $setvar
$rm -f ucbsprf*
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_charsprf.U
No license file was found, but licenses were detected in source scan.

Perl5 Metaconfig Units

Copyright (c) 1996-1998, Andy Dougherty
Copyright (c) 1999-2011, H.Merijn Brand
All rights reserved.

These units are the ones used to build Configure and config_h.SH
in the Perl5 distribution.

metaconfig will first look in its standard locations (specified when you
installed dist). It will then recurse through the 'U' subdirectory
and find any additional "private" units. Private units override
standard ones supplied with metaconfig.

Files in this directory:

README
This file.

Glossary.patch
The standard dist units contain some strings that make pod2man

complain. This patch silences those warnings. As new units are
added and Configure is regenerated, this patch may need more and more
'fuzz' to be applied. It should be freshly regenerated every once
in a while. See also mkgloss.pl

ln-all.pl
Re-generate the all/ folder

mkglossary
A script
to regenerate Porting/Glossary. You have to manually
edit the top of the script to point the location of your metaconfig
units. It is called automatically by 'mksample'. See also mkgloss.pl

mkgloss.pl
A perl script that calls U/mkglossary from the perl source tree, sorts
the list of symbols, and applies the patch mentioned in Glossary.patch.
When called on its own, redirect the output to a temporary file, and
compare that file to Porting/Glossary before applying.

mksample
A script to regenerate Porting/config.sh and Porting/config.H.
It also calls mkglossary, if necessary.

Subdirectories:

The units and other related files have been broken up into the following
directories.

a_dvisory/
These are units that have to go first in the generated config_h.SH.
A word of explanation: Configure and config_h.SH are generated from 'Units'
(the *.U files). Files indicate dependencies (using make(1)), and
Configure is built to follow those dependencies.
However, config_h.SH
is simply built by putting all the units in alphabetical order and
extracting the relevant lines. (This could be fixed, I suppose, but
it wasn't trivial the one time I looked.)
The a_dvisory/ directory, then, is a place to put units that need
to be early in config_h.SH. (Most units are self-contained
and ought to be able to go anywhere. However, some things, like
byteorder, need to have the #defines from multiarch available.)

acl/
This is an old patch to begin to detect and use ACL (access
control list) file protection schemes.

all/

A folder that conveniently holds symbolic links to all the modules
that are used to build the current Configure and config_h.SH.

compline/
These are similar to the standard units, but I have modified them
to have a more uniform compile command line, usually using the
new Compile.U unit. (The ccflags.U unit is perl-specific since it
mentions -DDEBUGGING and
-DPOSIX_SOURCE, but that's the only place
it is perl-specific.)

dist_patches/
These are patches to dist that must be applied before it is built
and installed. I have submitted these for inclusion in the
regular dist distribution. They have already been applied
to the ../dist-3.0at70b directory.

ebcdic/
These are units that had to be specially modified to work under
either EBCDIC or ASCII.

installdirs/
These are units to handle perl's installation directories and
related issues.

modified/
These are modified versions of the standard units. Also included in
this directory are new units that are clearly derived from existing
units. I have submitted these for inclusion in the regular dist
distribution.

nullified/
These are null units that replace units in the standard
distribution. Typically they are there because some part of the
perl source accidentally uses a symbol that metaconfig thinks means we
want the corresponding
unit.

perl/
These are specific to perl. Some are heavily derived from
original dist units, and are marked as such. Others are original.

perl_patches/
These are patches to the perl source. This directory
should ordinarily be empty, but there may have been drift between
the standard version of perl and the one associated with these
units.

protos/
These are units modified to use the new Hasproto.U or Protochk.U units to check for prototypes.

threads/
These are specific to threading perl.

typedefs/
These are standard units modified to use the modified Typedef.U unit to check for typedefs. (The modified Typdef.U includes a function to avoid unnecessary prompts if the typdef being searched for exists.)

Where appropriate, I submitted these units for inclusion into the regular dist distribution. However, since dist is no longer actively maintained, and the alternative is for *me* to actively maintain it, the units just
sit here.

Copyright Information:

Unless otherwise indicated, the files contained in this distribution are:

Copyright (c) 1996-1998, Andy Dougherty

The following licensing terms apply to all files contained in this distribution:

You may distribute the files contained in this distribution under the terms of either

a) the "Artistic License" which comes with Perl, or

b) the "Artistic License" which comes with dist, or

c) the GNU General Public License as published by the Free Software Foundation; either version 1, or (at your option) any later version (see the file "Copying" that comes with the Perl distribution).

Which one to use is your choice.

The units in the "modified" directory have been derived from units associated with the metaconfig program of Raphael Manfredi's "dist" distribution. These units list Raphael Manfredi as the Copyright holder. dist is distributed under a modified version of the Perl Artistic License.

Clause 7 of this modified
license as contained in dist-3.0-pl60 provides:

7. You may reuse parts of this Package in your own programs, provided
that you explicitly state where you got them from, in the source code
(and, left to your courtesy, in the documentation), duplicating
all the associated copyright notices and disclaimers. Besides
your changes, if any, must be clearly marked as such. Parts reused
that way will no longer fall under this license if, and only if,
the name of your program(s) have no immediate connection with the
name of the Package itself or its associated programs. You may then
apply whatever restrictions you wish on the reused parts or choose
to place them in the Public Domain--this will apply only within the
context of your package.

In accordance with this clause, the versions of these units
contained here are made available under the same terms as the
rest of the units.

If you have any questions about the use of these units or about
the differences
between these units and the standard versions, please
feel free to ask.

Andy Dougherty doughera@lafayette.edu
Dept. of Physics
Lafayette College
Easton, PA 18042-1782

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/README
No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fma: Inlibc
?MAKE: -pick add $@ %<
?S:d_fma:
?S: This variable conditionally defines the HAS_FMA symbol, which
?S: indicates to the C program that the fma() routine is available.
?S:.
?C:HAS_FMA:
?C: This symbol, if defined, indicates that the fma routine is
?C: available to do the multiply-add function.
?C:.
?H:#$d_fma HAS_FMA /**/

```
?H:.
?LINT:set d_fma
: see if fma exists
set fma d_fma
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fma.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setsent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_setsent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setsent: Inlibc
?MAKE: -pick add $@ %<
?S:d_setsent:
?S: This variable conditionally defines HAS_SETSERVENT if setservent() is
?S: available.
?S:.
?C:HAS_SETSERVENT:
?C: This symbol, if defined, indicates that the setservent() routine is
?C: available.
?C:.
?H:#$d_setsent HAS_SETSERVENT  /**/
?H:.
?LINT:set d_setsent
: see if setservent exists
set
 setservent d_setsent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_setsent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?X:
?X: This unit allows the duplication of the source tree to the current
?X: directory via symbolic links.  This must be requested explicitly
?X: by them issuing a -Dmksymlinks on the command line.
?X:
?MAKE:Mksymlinks: Mkdirp lns issymlink src rsrc pkgsrc
?MAKE: -pick add $@ %<
?F:!UU
?T: dir filename tmppwd filelist
?LINT:extern mksymlinks
@if {test -f ../MANIFEST}
: Duplicate the tree with symbolic links if -Dmksymlinks was supplied
case "$mksymlinks"
 in
$define|true|[yY]*)
 echo " "
 case "$src" in
 "|'.') echo "Cannot create symlinks in the original directory." >&4
  exit 1
  ;;
 *) case "$lns:$issymlink" in
  *"ln"*" -s:"*"test -"?)
   echo "Creating the symbolic links..." >&4
   echo "(First creating the subdirectories...)" >&4
   cd ..
   awk '{print $1}' $src/MANIFEST | grep / | sed 's:/[^/]*$::' | \
    sort -u | while true
   do
    read dir
    test -z "$dir" && break
    ./UU/mkdirp $dir 2>/dev/null
    if test -d $dir; then
     : ok
    else
     echo "Failed to create '$dir'.  Aborting." >&4
     exit 1
```

```
    fi
   done
   echo "(Now creating the symlinks...)" >&4
   awk '{print $1}' $src/MANIFEST | while true; do
    read filename
    test -z "$filename" && break
    if test -f $filename; then
     if $issymlink $filename; then
      rm -f $filename
     fi
    fi
    if test -f $filename; then
     echo "$filename already exists, not symlinking."
    else
?X: Note that the following works because "$pkgsrc" is absolute
     ln
 -s $pkgsrc/$filename $filename
    fi
   done
?X: Check that everything was correctly copied
   echo "(Checking current directory...)" >&4
   cd UU
   awk '$1 !~ /PACK[A-Z]+/ {print $1}' "$rsrc/MANIFEST" | \
    (split -l 50 2>/dev/null || split -50)
   rm -f missing
   tmppwd=`pwd`
   for filelist in x??; do
    (cd ..; ls `cat "$tmppwd/$filelist"` \
     >/dev/null 2>>"$tmppwd/missing")
   done
   if test -s missing; then
    echo "Failed duplication of source tree.  Aborting." >&4
    exit 1
   fi
   ;;
  *) echo "(I cannot figure out how to do symbolic links, ignoring!)" >&4
   ;;
  esac
  ;;
 esac
 ;;
esac

@end
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Mksymlinks.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setegid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setegid.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setegid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setegid:
?S: This variable conditionally defines the HAS_SETEGID symbol, which
?S: indicates to the C program that the setegid() routine is available
?S: to change the effective gid of the current program.
?S:.
?C:HAS_SETEGID (SETEGID):
?C: This symbol, if defined, indicates that the setegid
 routine is available
?C: to change the effective gid of the current program.
?C:.
?H:#$d_setegid HAS_SETEGID  /**/
?H:.
?LINT:set d_setegid
: see if setegid exists
set setegid d_setegid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setegid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: archlib.U,v 3.1 1999/07/08 18:32:29 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
```

```
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: archlib.U,v $
?RCS: Revision 3.1  1999/07/08 18:32:29  doughera
?RCS: Updated for perl5.005_5x
?RCS:
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:15:18  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/02/15  14:14:14  ram
?RCS: patch51: architecture name is now
 computed by a separate unit
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:32:22  ram
?RCS: patch49: archname is now systematically recomputed
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:02:36  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_archlib archlib archlibexp installarchlib: \
 cat Getfile Setprefixvar Loc Oldconfig archname spackage  \
 privlib sed test Prefixit Prefixup binexp
?MAKE: -pick add $@ %<
?Y:TOP
?S:d_archlib:
?S: This variable conditionally defines ARCHLIB to hold the pathname
?S: of architecture-dependent library files for $package.  If
?S: $archlib is the same as $privlib, then this is set to undef.
?S:.
?D:archlib=''
?S:archlib:
?S: This variable holds the name of the directory in which the user wants
?S: to put architecture-dependent public library files for $package.
?S: It is most often a local directory such as /usr/local/lib.
?S: Programs using this variable must be prepared to deal
?S: with
 filename expansion.
?S:.
?D:archlibexp=''
?S:archlibexp:
?S: This variable is the same as the archlib variable, but is
?S: filename expanded at configuration time, for convenient use.
?S:.
```

```
?D:installarchlib="
?S:installarchlib:
?S: This variable is really the same as archlibexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?C:ARCHLIB:
?C: This variable, if defined, holds the name of the directory in
?C: which the user wants to put architecture-dependent public
?C: library files for $package.  It is most often a local directory
?C: such as /usr/local/lib.  Programs using this variable must be
?C: prepared to deal with filename expansion.  If ARCHLIB is the
?C: same as PRIVLIB, it is not defined, since presumably the
?C: program already searches PRIVLIB.
?C:.
?C:ARCHLIB_EXP:
?C: This symbol contains the ~name expanded version of ARCHLIB, to be used
?C: in programs that are not prepared to deal with ~ expansion
 at run-time.
?C:.
?H:#$d_archlib ARCHLIB "$archlib"  /**/
?H:#$d_archlib ARCHLIB_EXP "$archlibexp"  /**/
?H:.
?T: tdflt
?LINT:change prefixvar
?LINT:set archlib
?LINT:set archlibexp
?LINT:set installarchlib
: determine where public architecture dependent libraries go
set archlib archlib
eval $prefixit
: privlib default is /usr/local/lib/$package/$version
: archlib default is /usr/local/lib/$package/$version/$archname
: privlib may have an optional trailing /share.
tdflt=`echo $privlib | $sed 's,/share$,,'`
tdflt=$tdflt/$archname
case "$archlib" in
") dflt=$tdflt
 ;;
*) dflt="$archlib"
   ;;
esac
$cat <<EOM

$spackage contains architecture-dependent library files.  If you are
sharing libraries in a heterogeneous environment, you might store
these files in a separate location.  Otherwise, you can just include
them with the rest of the public library files.
```

```
EOM
?X: Force dependency on bin.U
fn=$binexp
fn=d+~
rp='Where do you want to put the public architecture-dependent libraries?'
.
 ./getfile
prefixvar=archlib
. ./setprefixvar
if $test X"$archlib" = X"$privlib"; then
 d_archlib="$undef"
else
 d_archlib="$define"
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/archlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: prototype.U,v 3.0.1.3 1994/05/06 15:11:49 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: prototype.U,v $
?RCS: Revision 3.0.1.3  1994/05/06  15:11:49  ram
?RCS: patch23: ensure cc flags used when looking for prototype support
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:15:36  ram
?RCS: patch16: prototype handling macros now appear only when needed
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:03:12  ram
?RCS: patch6: defines were referring to non-existent VOID symbol
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:36  ram
?RCS: Baseline for dist
 3.0 netwide release.
?RCS:
?MAKE:prototype: Nothing
?S:prototype:
?S: This variable holds the eventual value of CAN_PROTOTYPE, which
```

```
?S: indicates the C compiler can handle function prototypes.
?S:.
: stub, never used
prototype=nothing
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/prototype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_llrintl: Inlibc
?MAKE: -pick add $@ %<
?S:d_llrintl:
?S: This variable conditionally defines the HAS_LLRINTL symbol, which
?S: indicates to the C program that the llrintl() routine is available
?S: to return the long long value closest to a long double (according
?S: to the current rounding mode).
?S:.
?C:HAS_LLRINTL:
?C: This symbol, if defined, indicates that the llrintl routine is
?C: available to return the long long value closest to a long double
?C: (according to the current rounding mode).
?C:.
?H:#$d_llrintl HAS_LLRINTL  /**/
?H:.
?LINT:set d_llrintl
: see if llrintl exists
set llrintl d_llrintl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_llrintl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_union_semun.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_union_semun.U,v $
?RCS:
?MAKE:d_union_semun d_semctl_semun d_semctl_semid_ds: Compile Setvar Myread run \
```

```
 cat rm_try d_sem
?MAKE: -pick add $@ %<
?S:d_union_semun:
?S: This variable conditionally defines HAS_UNION_SEMUN if the
?S: union semun is defined by including <sys/sem.h>.
?S:.
?S:d_semctl_semun:
?S: This variable conditionally defines USE_SEMCTL_SEMUN, which
?S: indicates that union semun is to be used for semctl IPC_STAT.
?S:.
?S:d_semctl_semid_ds:
?S: This variable conditionally defines USE_SEMCTL_SEMID_DS, which
?S: indicates that struct semid_ds * is to be used for semctl IPC_STAT.
?S:.
?C:HAS_UNION_SEMUN:
?C: This symbol, if defined, indicates that the union semun
 is
?C: defined by including <sys/sem.h>.  If not, the user code
?C: probably needs to define it as:
?C:  union semun {
?C:     int val;
?C:     struct semid_ds *buf;
?C:     unsigned short *array;
?C:  }
?C:.
?C:USE_SEMCTL_SEMUN:
?C: This symbol, if defined, indicates that union semun is
?C: used for semctl IPC_STAT.
?C:.
?C:USE_SEMCTL_SEMID_DS:
?C: This symbol, if defined, indicates that struct semid_ds * is
?C: used for semctl IPC_STAT.
?C:.
?H:#$d_union_semun HAS_UNION_SEMUN /**/
?H:#$d_semctl_semun USE_SEMCTL_SEMUN /**/
?H:#$d_semctl_semid_ds USE_SEMCTL_SEMID_DS /**/
?H:.
?T:xxx also
?F:!try !tryh.h
?LINT: set d_union_semun d_semctl_semun d_semctl_semid_ds
: see whether sys/sem.h defines union semun
echo " "
$cat > try.c <<'END'
#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/sem.h>
int main () { union semun semun; semun.buf = 0; }
END
```

```
set try
if eval $compile; then
   echo "You have union semun in <sys/sem.h>." >&4
   val="$define"
else
   echo "You do not have union
 semun in <sys/sem.h>." >&4
   val="$undef"
fi
$rm_try
set d_union_semun
eval $setvar

: see how to do semctl IPC_STAT
case "$d_sem" in
$define)
   echo " "
?X: use tryh.h instead of try.h because $rm_try cleans up try.*
   $cat > tryh.h <<END
#ifndef S_IRUSR
#   ifdef S_IREAD
# define S_IRUSR S_IREAD
# define S_IWUSR S_IWRITE
# define S_IXUSR S_IEXEC
#   else
# define S_IRUSR 0400
# define S_IWUSR 0200
# define S_IXUSR 0100
#   endif
#   define S_IRGRP (S_IRUSR>>3)
#   define S_IWGRP (S_IWUSR>>3)
#   define S_IXGRP (S_IXUSR>>3)
#   define S_IROTH (S_IRUSR>>6)
#   define S_IWOTH (S_IWUSR>>6)
#   define S_IXOTH (S_IXUSR>>6)
#endif
#ifndef S_IRWXU
#   define S_IRWXU (S_IRUSR|S_IWUSR|S_IXUSR)
#   define S_IRWXG (S_IRGRP|S_IWGRP|S_IXGRP)
#   define S_IRWXO (S_IROTH|S_IWOTH|S_IXOTH)
#endif
END
   : see whether semctl IPC_STAT can use union semun
   case "$d_semctl_semun" in
   ")
     val="$undef"
     $cat > try.c <<END
#include <sys/types.h>
```

```
#include <sys/ipc.h>
#include <sys/sem.h>
#include
 <sys/stat.h>
#include <stdio.h>
#include <errno.h>
#include "tryh.h"
#ifndef errno
extern int errno;
#endif
#$d_union_semun HAS_UNION_SEMUN
int main() {
   union semun
#ifndef HAS_UNION_SEMUN
   {
 int val;
 struct semid_ds *buf;
 unsigned short *array;
   }
#endif
   arg;
   int sem, st;

#if defined(IPC_PRIVATE) && defined(S_IRWXU) && defined(S_IRWXG) && defined(S_IRWXO) &&
defined(IPC_CREAT)
   sem = semget(IPC_PRIVATE, 1, S_IRWXU|S_IRWXG|S_IRWXO|IPC_CREAT);
   if (sem > -1) {
 struct semid_ds argbuf;
 arg.buf = &argbuf;
# ifdef IPC_STAT
 st = semctl(sem, 0, IPC_STAT, arg);
 if (st == 0)
     printf("semun\n");
 else
# endif /* IPC_STAT */
     printf("semctl IPC_STAT failed: errno = %d\n", errno);
# ifdef IPC_RMID
 if (semctl(sem, 0, IPC_RMID, arg) != 0)
# endif /* IPC_RMID */
     printf("semctl IPC_RMID failed: errno = %d\n", errno);
   } else
#endif /* IPC_PRIVATE && ... */
 printf("semget failed: errno = %d\n", errno);
 return 0;
}
END
     set try
```

```
    if eval $compile; then
  xxx=`$run ./try`
        case "$xxx" in
        semun) val="$define" ;;
        esac
    fi
    $rm_try
    set d_semctl_semun
    eval $setvar
    ;;
  esac
  case "$d_semctl_semun" in
  $define)
      echo "You can use union semun for semctl IPC_STAT." >&4
 also='also'
      ;;
  *)  echo "You cannot use union semun for semctl IPC_STAT." >&4
 also=''
      ;;
  esac

  : see whether semctl IPC_STAT can use struct semid_ds pointer
  case "$d_semctl_semid_ds" in
  '')
    val="$undef"
    $cat > try.c <<'END'
#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/sem.h>
#include <sys/stat.h>
#include "tryh.h"
#include <stdio.h>
#include <errno.h>
#ifndef errno
extern int errno;
#endif
int main() {
  union semun
#ifndef HAS_UNION_SEMUN
  {
 int val;
 struct semid_ds *buf;
 unsigned short *array;
  }
#endif
  arg;
  struct semid_ds argbuf;
  int sem, st;
```

```
#if defined(IPC_PRIVATE) && defined(S_IRWXU) &&
 defined(S_IRWXG) &&  defined(S_IRWXO) && defined(IPC_CREAT)
   sem = semget(IPC_PRIVATE, 1, S_IRWXU|S_IRWXG|S_IRWXO|IPC_CREAT);
   if (sem > -1) {
 arg.buf = &argbuf;
# ifdef IPC_STAT
 st = semctl(sem, 0, IPC_STAT, arg);
 if (st == 0)
     printf("semid_ds\n");
 else
# endif /* IPC_STAT */
     printf("semctl IPC_STAT failed: errno = %d\n", errno);
# ifdef IPC_RMID
 if (semctl(sem, 0, IPC_RMID, arg) != 0)
# endif /* IPC_RMID */
     printf("semctl IPC_RMID failed: errno = %d\n", errno);
   } else
#endif /* IPC_PRIVATE && ... */
 printf("semget failed: errno = %d\n", errno);

   return 0;
}
END
     set try
     if eval $compile; then
         xxx=`$run ./try`
         case "$xxx" in
         semid_ds) val="$define" ;;
         esac
     fi
     $rm_try
     set d_semctl_semid_ds
     eval $setvar
     ;;
   esac
   case "$d_semctl_semid_ds" in
   $define)
       echo "You can $also use struct semid_ds* for semctl IPC_STAT." >&4
       ;;
   *)  echo "You cannot use
 struct semid_ds* for semctl IPC_STAT." >&4
       ;;
   esac
   ;;
*)  val="$undef"

   # We do not have the full sem*(2) library, so assume we can not
```

```
  # use either.

  set d_semctl_semun
  eval $setvar

  set d_semctl_semid_ds
  eval $setvar
  ;;
esac
$rm_try tryh.h
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_union_semun.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getprotoprotos.U,v $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_getprotoprotos : Hasproto i_netdb
?MAKE: -pick add $@ %<
?S:d_getprotoprotos:
?S: This variable conditionally defines the HAS_GETPROTO_PROTOS symbol,
?S: which indicates to the C program that <netdb.h> supplies
?S: prototypes for the various getproto*() functions.
?S: See also netdbtype.U for probing for various netdb types.
?S:.
?C:HAS_GETPROTO_PROTOS:
?C: This symbol, if defined, indicates that <netdb.h> includes
?C: prototypes for getprotoent(), getprotobyname(), and
?C: getprotobyaddr().
  Otherwise, it is up to the program to guess
?C: them.  See netdbtype.U for probing for various Netdb_xxx_t types.
?C:.
?H:#$d_getprotoprotos HAS_GETPROTO_PROTOS /**/
?H:.
?LINT:set d_getprotoprotos
: see if prototypes for various getprotoxxx netdb.h functions are available
echo " "
set d_getprotoprotos getprotoent $i_netdb netdb.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/d_getprotoprotos.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_localeconv_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_localeconv_l:
?S: This variable conditionally defines the HAS_LOCALECONV_L symbol, which
?S: indicates to the C program that the localeconv_l() routine is available.
?S:.
?C:HAS_LOCALECONV_L:
?C: This symbol, if defined, indicates that the localeconv_l routine is
?C: available to query certain information about a locale.
?C:.
?H:#$d_localeconv_l HAS_LOCALECONV_L  /**/
?H:.
?LINT:set d_localeconv_l
: see if localeconv_l exists
set localeconv_l d_localeconv_l
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_localeconv_l.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Whoa.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:21:21  ram
?RCS: patch61: whoa script now starts with leading "startsh"
```

```
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:02:01  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to warn the user in case a change into a variable is noticed.
?X:
?X: To use this
 unit, $was must hold the old value that has changed. Upon
?X: exit, the two variables $td and $tu are set to the correct value for
?X: respectively defining or undefining a variable. For instance, if $vas was
?X: $undef, but now $var is $define, after calling . whoa, you should use
?X: eval "$var=\$tu" to finally set $var to the correct value. See unit Inlibc.
?X:
?MAKE:Whoa: Myread startsh hint
?MAKE: -pick add $@ %<
?F:./whoa
?T:var was
?LINT:change td tu
: set up the script used to warn in case of inconsistency
cat <<EOS >whoa
$startsh
EOS
cat <<'EOSC' >>whoa
dflt=y
echo " "
echo "*** WHOA THERE!!! ***" >&4
echo "    The $hint value for \$$var on this machine was \"$was\"!" >&4
rp="    Keep the $hint value?"
. ./myread
case "$ans" in
y) td=$was; tu=$was;;
esac
EOSC
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Whoa.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_drand48proto: Hasproto i_stdlib i_unistd
?MAKE: -pick add $@ %<
?S:d_drand48proto:
?S: This variable conditionally defines the HAS_DRAND48_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the drand48() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_DRAND48_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the drand48() function.  Otherwise, it is up
?C: to the program to supply one.  A good guess
 is
?C:  extern double drand48(void);
?C:.
?H:#$d_drand48proto HAS_DRAND48_PROTO /**/
?H:.
?LINT:set d_drand48proto
: see if prototype for drand48 is available
echo " "
set d_drand48proto drand48 $i_stdlib stdlib.h $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/d_drand48proto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_drem.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_drem.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:12:14  ram
```

```
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_drem: Inlibc
?MAKE: -pick add $@ %<
?S:d_drem:
?S: This variable conditionally defines the HAS_DREM symbol, which
?S: indicates to the C program that the drem() routine is available.
?S:.
?C:HAS_DREM :
?C: This symbol, if defined, indicates that the drem routine is
?C: available.
  This routine is roughly the same as fmod, i.e. it
?C: computes the remainder r=x-n*y, where n=rint(x/y), whereas fmod
?C: uses n=trunc(x/y).
?C:.
?H:#$d_drem HAS_DREM  /**/
?H:.
?LINT:set d_drem
: see if drem exists
set drem d_drem
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_drem.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setsid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setsid.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:06:49  ram
?RCS: patch16: created
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setsid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setsid:
?S: This variable conditionally defines HAS_SETSID if setsid() is
```

```
?S: available to set the process group ID.
?S:.
?C:HAS_SETSID:
?C: This symbol, if defined, indicates that the setsid routine is
?C: available
 to set the process group ID.
?C:.
?H:#$d_setsid HAS_SETSID /**/
?H:.
?LINT:set d_setsid
: see if setsid exists
set setsid d_setsid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setsid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_tzname.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_tzname.U,v $
?RCS: Revision 3.0.1.2  1994/08/29  16:14:43  ram
?RCS: patch32: forgot to set proper value in the val variable
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:57:55  ram
?RCS: patch30: created
?RCS:
?MAKE:d_tzname: Csym Setvar
?MAKE: -pick add $@ %<
?S:d_tzname:
?S: This variable conditionally defines HAS_TZNAME if tzname[] is
?S: available to access timezone names.
?S:.
?C:HAS_TZNAME:
?C: This symbol, if defined, indicates that the tzname[]
 array is
?C: available to access timezone names.
?C:.
?H:#$d_tzname HAS_TZNAME  /**/
```

```
?H:.
?LINT:set d_tzname
: see if tzname[] exists
echo " "
if set tzname val -a d_tzname; eval $csym; $val; then
 val="$define"
 echo 'tzname[] found.' >&4
else
 val="$undef"
 echo 'tzname[] NOT found.' >&4
fi
set d_tzname
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_tzname.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_locconv.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_locconv.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:14:11  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_locconv: Inlibc
?MAKE: -pick add $@ %<
?S:d_locconv:
?S: This variable conditionally defines HAS_LOCALECONV if localeconv() is
?S: available for numeric and monetary formatting conventions.
?S:.
?C:HAS_LOCALECONV:
?C: This symbol, if defined, indicates that the localeconv
 routine is
?C: available for numeric and monetary formatting conventions.
?C:.
?H:#$d_locconv HAS_LOCALECONV /**/
?H:.
```

```
?LINT:set d_locconv
: see if localeconv exists
set localeconv d_locconv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_locconv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_cbrt.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_cbrt.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_cbrt: Inlibc
?MAKE: -pick add $@ %<
?S:d_cbrt:
?S: This variable conditionally defines the HAS_CBRT symbol, which
?S: indicates to the C program that the cbrt() (cube root) function
?S: is available.
?S:.
?C:HAS_CBRT (CBRT):
?C: This symbol, if defined, indicates that the cbrt() (cube root)
?C: function is available.
?C:.
?H:#$d_cbrt HAS_CBRT /**/
?H:.
?LINT:set
 d_cbrt
: see if cbrt exists
set cbrt d_cbrt
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_cbrt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_msgget.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msgget.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_msgget: Inlibc
?MAKE: -pick add $@ %<
?S:d_msgget:
?S: This variable conditionally defines the HAS_MSGGET symbol, which
?S: indicates to the C program that the msgget() routine is available.
?S:.
?C:HAS_MSGGET:
?C: This symbol, if defined, indicates that the msgget() routine is
?C: available to get a new message queue.
?C:.
?H:#$d_msgget
 HAS_MSGGET  /**/
?H:.
?LINT:set d_msgget
: see if msgget exists
set msgget d_msgget
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_msgget.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_crypt_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_crypt_r crypt_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_crypt extern_C
?MAKE: -pick add $@ %<
```

```
?S:d_crypt_r:
?S: This variable conditionally defines the HAS_CRYPT_R symbol,
?S: which indicates to the C program that the crypt_r()
?S: routine is available.
?S:.
?S:crypt_r_proto:
?S: This variable encodes the prototype of crypt_r.
?S: It is zero if d_crypt_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_crypt_r
?S: is defined.
?S:.
?C:HAS_CRYPT_R:
?C: This symbol, if defined, indicates that the crypt_r routine
?C: is available to crypt re-entrantly.
?C:.
?C:CRYPT_R_PROTO:
?C: This
 symbol encodes the prototype of crypt_r.
?C: It is zero if d_crypt_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_crypt_r
?C: is defined.
?C:.
?H:#$d_crypt_r HAS_CRYPT_R /**/
?H:#define CRYPT_R_PROTO $crypt_r_proto /**/
?H:.
?T:try hdrs d_crypt_r_proto
: see if crypt_r exists
set crypt_r d_crypt_r
eval $inlibc
case "$d_crypt_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_crypt crypt.h"
 case "$d_crypt_r_proto:$usethreads" in
 ":define") d_crypt_r_proto=define
  set d_crypt_r_proto crypt_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_crypt_r_proto" in
 define)
 case "$crypt_r_proto" in
 "|0) try='char* crypt_r(const char*, const char*, struct crypt_data*);'
 ./protochk "$extern_C $try" $hdrs && crypt_r_proto=B_CCS ;;
 esac
 case "$crypt_r_proto" in
 "|0) try='char* crypt_r(const char*, const char*, CRYPTD*);'
 ./protochk "$extern_C $try" $hdrs && crypt_r_proto=B_CCD ;;
 esac
```

```
 case "$crypt_r_proto" in
 "|0) d_crypt_r=undef
  crypt_r_proto=0
  echo
 "Disabling crypt_r, cannot determine prototype." >&4 ;;
 * ) case "$crypt_r_proto" in
  REENTRANT_PROTO*) ;;
  *) crypt_r_proto="REENTRANT_PROTO_$crypt_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "crypt_r has no prototype, not using it." >&4 ;;
  esac
  d_crypt_r=undef
  crypt_r_proto=0
  ;;
 esac
 ;;
*) crypt_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_crypt_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: fpostype.U,v $
?RCS: Revision 3.0.1.2  1994/08/29  16:20:52  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:59:59  ram
?RCS: patch30: created
?RCS:
?MAKE:fpostype: Myread Typedef
?MAKE: -pick add $@ %<
```

```
?S:fpostype:
?S: This variable defines Fpos_t to be something like fpost_t, long,
?S: uint, or whatever type is used to declare file positions in libc.
?S:.
?C:Fpos_t:
?C: This symbol holds the type used to declare file positions
 in libc.
?C: It can be fpos_t, long, uint, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Fpos_t $fpostype  /* File position type */
?H:.
: see what type file positions are declared as in the library
set fpos_t fpostype long stdio.h sys/types.h
eval $typedef
echo " "
dflt="$fpostype"
rp="What is the type for file position used by fsetpos()?"
. ./myread
fpostype="$ans"
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/fpostype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getgrent.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_getgrent.U,v $
?RCS:
?MAKE:d_getgrent: Inlibc
?MAKE: -pick add $@ %<
?S:d_getgrent:
?S: This variable conditionally defines the HAS_GETGRENT symbol, which
?S: indicates to the C program that the getgrent() routine is available
?S: for sequential access of the group database.
?S:.
?C:HAS_GETGRENT:
?C: This symbol, if defined, indicates that the getgrent routine is
?C: available for sequential access of the group database.
?C:.
?H:#$d_getgrent HAS_GETGRENT  /**/
?H:.
```

```
?LINT:set d_getgrent
: see if getgrent exists
set getgrent d_getgrent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_getgrent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_chown.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_chown.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:14  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_chown: Inlibc
?MAKE: -pick add $@ %<
?S:d_chown:
?S: This variable conditionally defines the HAS_CHOWN symbol, which
?S: indicates to the C program that the chown() routine is available.
?S:.
?C:HAS_CHOWN :
?C: This symbol, if defined, indicates that the chown routine is
?C: available.
?C:.
?H:#$d_chown
 HAS_CHOWN  /**/
?H:.
?LINT:set d_chown
: see if chown exists
set chown d_chown
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_chown.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_rename.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_rename.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_rename: Inlibc
?MAKE: -pick add $@ %<
?S:d_rename:
?S: This variable conditionally defines the HAS_RENAME symbol, which
?S: indicates to the C program that the rename() routine is available
?S: to rename files.
?S:.
?C:HAS_RENAME (RENAME):
?C: This symbol, if defined, indicates that the rename routine is available
?C: to rename files.
  Otherwise you should do the unlink(), link(), unlink()
?C: trick.
?C:.
?H:#$d_rename HAS_RENAME /**/
?H:.
?LINT:set d_rename
: see if rename exists
set rename d_rename
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_rename.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_access.U,v 3.0 1993/08/18 12:05:42 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_access.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_access: test +cc cat +cppflags h_fcntl h_sysfile i_stdlib rm Inlibc Findhdr
?MAKE: -pick add $@ %<
?S:d_access:
?S: This variable conditionally defines HAS_ACCESS if the access() system
?S: call is available to check for access permissions using real IDs.
?S:.
?C:HAS_ACCESS:
?C: This manifest constant lets the C program know that the access()
?C: system
 call is available to check for accessibility using real UID/GID.
?C: (always present on UNIX.)
?C:.
?H:#$d_access HAS_ACCESS  /**/
?H:.
?W:%<:R_OK W_OK X_OK F_OK
?LINT:set d_access
?LINT:change h_fcntl h_sysfile
: access call always available on UNIX
set access d_access
eval $inlibc

: locate the flags for 'access()'
case "$d_access" in
"$define")
 echo " "
 $cat >access.c <<EOCP
#include <sys/types.h>
#ifdef I_FCNTL
#include <fcntl.h>
#endif
#ifdef I_SYS_FILE
#include <sys/file.h>
#endif
#ifdef I_UNISTD
#include <unistd.h>
#endif
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() {
```

```
 exit(R_OK);
}
EOCP
 : check sys/file.h first, no particular reason here
 if $test `./findhdr sys/file.h` && \
  $cc -o access $cppflags -DI_SYS_FILE access.c >/dev/null 2>&1 ; then
  h_sysfile=true;
  echo "<sys/file.h> defines the *_OK access constants." >&4
 elif $test `./findhdr fcntl.h` && \
  $cc -o access $cppflags -DI_FCNTL access.c >/dev/null 2>&1 ; then
  h_fcntl=true;
  echo
 "<fcntl.h> defines the *_OK access constants." >&4
@if I_UNISTD
 elif $test `./findhdr unistd.h` && \
  $cc -o access $cppflags -DI_UNISTD access.c >/dev/null 2>&1 ; then
  echo "<unistd.h> defines the *_OK access constants." >&4
@end
 else
  echo "I can't find the four *_OK access constants--I'll use mine." >&4
 fi
 ;;
esac
$rm -f access*
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_access.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_syssecrt: Inhdr
?MAKE: -pick add $@ %<
?S:i_syssecrt:
?S: This variable conditionally defines the I_SYS_SECURITY symbol,
?S: and indicates whether a C program should include <sys/security.h>.
?S:.
?C:I_SYS_SECURITY:
?C: This symbol, if defined, indicates to the C program that it should
```

```
?C: include <sys/security.h>.
?C:.
?H:#$i_syssecrt   I_SYS_SECURITY /**/
?H:.
?LINT:set i_syssecrt
: see if sys/security.h is available
set sys/security.h i_syssecrt
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/acl/i_syssecrt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_db.U,v 3.0.1.3 1995/07/25 14:10:22 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_db.U,v $
?RCS: Revision 3.0.1.3  1995/07/25  14:10:22  ram
?RCS: patch56: conditionally use const in test programs (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1995/05/12  12:14:42  ram
?RCS: patch54: extended for more intimate DB probing (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:21:50  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:i_db db_hashtype db_prefixtype \
 db_version_major
 db_version_minor db_version_patch : \
 Inhdr +cc +ccflags rm_try compiler_warning cat \
 Compile libs sed run i_stdlib
?MAKE: -pick add $@ %<
?S:i_db:
?S: This variable conditionally defines the I_DB symbol, and indicates
?S: whether a C program may include Berkeley's DB include file <db.h>.
?S:.
?S:db_hashtype:
?S: This variable contains the type of the hash structure element
```

```
?S: in the <db.h> header file.  In older versions of DB, it was
?S: int, while in newer ones it is u_int32_t.
?S:.
?S:db_prefixtype:
?S: This variable contains the type of the prefix structure element
?S: in the <db.h> header file.  In older versions of DB, it was
?S: int, while in newer ones it is size_t.
?S:.
?S:db_version_major:
?S: This variable contains the major version number of
?S: Berkeley DB found in the <db.h> header file.
?S:.
?S:db_version_minor:
?S: This variable contains the minor version number of
?S: Berkeley DB found in the <db.h> header file.
?S: For DB version 1 this is always 0.
?S:.
?S:db_version_patch:
?S: This
 variable contains the patch version number of
?S: Berkeley DB found in the <db.h> header file.
?S: For DB version 1 this is always 0.
?S:.
?C:I_DB:
?C: This symbol, if defined, indicates to the C program that it should
?C: include Berkeley's DB include file <db.h>.
?C:.
?C:DB_Prefix_t:
?C: This symbol contains the type of the prefix structure element
?C: in the <db.h> header file.  In older versions of DB, it was
?C: int, while in newer ones it is u_int32_t.
?C:.
?C:DB_Hash_t:
?C: This symbol contains the type of the prefix structure element
?C: in the <db.h> header file.  In older versions of DB, it was
?C: int, while in newer ones it is size_t.
?C:.
?C:DB_VERSION_MAJOR_CFG:
?C: This symbol, if defined, defines the major version number of
?C: Berkeley DB found in the <db.h> header when Perl was configured.
?C:.
?C:DB_VERSION_MINOR_CFG:
?C: This symbol, if defined, defines the minor version number of
?C: Berkeley DB found in the <db.h> header when Perl was configured.
?C: For
 DB version 1 this is always 0.
?C:.
?C:DB_VERSION_PATCH_CFG:
```

```
?C: This symbol, if defined, defines the patch version number of
?C: Berkeley DB found in the <db.h> header when Perl was configured.
?C: For DB version 1 this is always 0.
?C:.
?H:#$i_db I_DB  /**/
?H:#define DB_Hash_t $db_hashtype  /**/
?H:#define DB_Prefix_t $db_prefixtype  /**/
?H:#define DB_VERSION_MAJOR_CFG $db_version_major /**/
?H:#define DB_VERSION_MINOR_CFG $db_version_minor /**/
?H:#define DB_VERSION_PATCH_CFG $db_version_patch /**/
?H:.
?F:!try
?LINT:change libs
: see if this is a db.h system
set db.h i_db
eval $inhdr

case "$i_db" in
$define)
 : Check db version.
 echo " "
 echo "Checking Berkeley DB version ..." >&4
 $cat >try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <db.h>
int main(int argc, char *argv[])
{
#ifdef DB_VERSION_MAJOR /* DB version >= 2 */
   int Major, Minor, Patch ;
   unsigned long Version ;
   (void)db_version(&Major,
 &Minor, &Patch) ;
   if (argc == 2) {
       printf("%d %d %d %d %d %d\n",
             DB_VERSION_MAJOR, DB_VERSION_MINOR, DB_VERSION_PATCH,
             Major, Minor, Patch);
       exit(0);
   }
   printf("You have Berkeley DB Version 2 or greater.\n");

   printf("db.h is from Berkeley DB Version %d.%d.%d\n",
  DB_VERSION_MAJOR, DB_VERSION_MINOR, DB_VERSION_PATCH);
   printf("libdb is from Berkeley DB Version %d.%d.%d\n",
```

```
  Major, Minor, Patch) ;

   /* check that db.h & libdb are compatible */
   if (DB_VERSION_MAJOR != Major || DB_VERSION_MINOR != Minor || DB_VERSION_PATCH != Patch) {
 printf("db.h and libdb are incompatible.\n") ;
       exit(3);
   }

   printf("db.h and libdb are compatible.\n") ;

   Version = DB_VERSION_MAJOR * 1000000 + DB_VERSION_MINOR * 1000
  + DB_VERSION_PATCH ;

   /* needs to be >= 2.3.4 */
   if (Version < 2003004) {
   /* if (DB_VERSION_MAJOR == 2 && DB_VERSION_MINOR == 0 && DB_VERSION_PATCH < 5) { */
 printf("Perl
 needs Berkeley DB 2.3.4 or greater.\n") ;
       exit(2);
   }

   exit(0);
#else
#if defined(_DB_H_) && defined(BTREEMAGIC) && defined(HASHMAGIC)
   if (argc == 2) {
       printf("1 0 0\n");
       exit(0);
   }
   printf("You have Berkeley DB Version 1.\n");
   exit(0); /* DB version < 2: the coast is clear. */
#else
   exit(1); /* <db.h> not Berkeley DB? */
#endif
#endif
}
EOCP
 set try
 if eval $compile_ok && $run ./try; then
  echo 'Looks OK.' >&4
  set `$run ./try 1`
  db_version_major=$1
  db_version_minor=$2
  db_version_patch=$3
 else
  echo "I can't use Berkeley DB with your <db.h>.  I'll disable Berkeley DB." >&4
  i_db=$undef
  case " $libs " in
  *"-ldb "*)
```

```
   : Remove db from list of libraries to use
   echo "Removing unusable -ldb from library list" >&4
   set `echo X $libs | $sed -e 's/-ldb / /' -e 's/-ldb$//'`
   shift
   libs="$*"
   echo "libs = $libs" >&4
   ;;
  esac
 fi
 $rm_try
 ;;
esac

@if DB_Hash_t
case "$i_db" in
define)
 : Check the return
 type needed for hash
 echo " "
 echo "Checking return type needed for hash for Berkeley DB ..." >&4
 $cat >try.c <<EOCP
#include <sys/types.h>
#include <db.h>

#ifndef DB_VERSION_MAJOR
u_int32_t hash_cb (const void* ptr, size_t size)
{
 return 0;
}
HASHINFO info;
int main()
{
 info.hash = hash_cb;
}
#endif
EOCP
 if $cc $ccflags -c try.c >try.out 2>&1 ; then
  if $compiler_warning try.out >>/dev/null 2>&1 ; then
   db_hashtype='int'
  else
   db_hashtype='u_int32_t'
  fi
 else
  : XXX Maybe we should just give up here.
  db_hashtype=u_int32_t
  $cat try.out >&4
  echo "Help:  I can't seem to compile the db test program." >&4
  echo "Something's wrong, but I'll assume you use $db_hashtype." >&4
```

```
 fi
 $rm_try
 echo "Your version of Berkeley DB uses $db_hashtype for hash."
 ;;
*) db_hashtype=u_int32_t
 ;;
esac
@end
@if DB_Prefix_t
case "$i_db" in
define)
 : Check the return type needed for prefix
 echo " "
 echo "Checking return type needed for prefix for Berkeley DB ..." >&4
 cat >try.c <<EOCP
#include
 <sys/types.h>
#include <db.h>

#ifndef DB_VERSION_MAJOR
size_t prefix_cb (const DBT *key1, const DBT *key2)
{
 return 0;
}
BTREEINFO info;
int main()
{
 info.prefix = prefix_cb;
}
#endif
EOCP
 if $cc $ccflags -c try.c  >try.out 2>&1 ; then
  if $compiler_warning try.out >>/dev/null 2>&1 ; then
   db_prefixtype='int'
  else
   db_prefixtype='size_t'
  fi
 else
  db_prefixtype='size_t'
  : XXX Maybe we should just give up here.
  $cat try.out >&4
  echo "Help:  I can't seem to compile the db test program." >&4
  echo "Something's wrong, but I'll assume you use $db_prefixtype." >&4
 fi
 $rm_try
 echo "Your version of Berkeley DB uses $db_prefixtype for prefix."
 ;;
*) db_prefixtype='size_t'
```

```
 ;;
esac
@end
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_db.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_mblen.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_mblen.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:09:40  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_mblen: Inlibc
?MAKE: -pick add $@ %<
?S:d_mblen:
?S: This variable conditionally defines the HAS_MBLEN symbol, which
?S: indicates to the C program that the mblen() routine is available
?S: to find the number of bytes in a multibyte character.
?S:.
?C:HAS_MBLEN:
?C: This
 symbol, if defined, indicates that the mblen routine is available
?C: to find the number of bytes in a multibyte character.
?C:.
?H:#$d_mblen HAS_MBLEN  /**/
?H:.
?LINT:set d_mblen
: see if mblen exists
set mblen d_mblen
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_mblen.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: lintlib.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: lintlib.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lintlib lintlibexp: Getfile Loc Oldconfig
?MAKE: -pick add $@ %<
?S:lintlib:
?S: This variable holds the name of the directory in which the user wants
?S: to put public lint-library files for the package in question.  It is
?S: most often a local directory such as /usr/local/lib/lint. Programs using
?S: this variable must be prepared to
 deal with ~name expansion.
?S:.
?S:lintlibexp:
?S: This variable is the same as the lintlib variable, but is filename
?S: expanded at configuration time, for convenient use in your makefiles.
?S:.
: determine where public lint libraries go
case "$lintlib" in
") dflt=`./loc . "." /usr/local/lib/lint /usr/lib/lint /usr/lib`;;
*) dflt="$lintlib" ;;
esac
echo " "
fn=d~
rp='Where do you want to put the public lint libraries?'
. ./getfile
lintlib="$ans"
lintlibexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/lintlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
```

```
?RCS: Copyright (c) 2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_aintl: Inlibc
?MAKE: -pick add $@ %<
?S:d_aintl:
?S: This variable conditionally defines the HAS_AINTL symbol, which
?S: indicates to the C program that the aintl() routine is available.
?S: If copysignl is also present we can emulate modfl.
?S:.
?C:HAS_AINTL:
?C: This symbol, if defined, indicates that the aintl routine is
?C: available.  If copysignl is also present we can emulate modfl.
?C:.
?H:#$d_aintl HAS_AINTL  /**/
?H:.
?LINT:set d_aintl
: see if aintl exists
set aintl d_aintl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_aintl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2008 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_ctime64 d_localtime64 d_gmtime64 d_mktime64 d_difftime64 d_asctime64: Inlibc
?MAKE: -pick add $@ %<
?S:d_ctime64:
?S: This variable conditionally defines the HAS_CTIME64 symbol, which
?S: indicates to the C program that the ctime64 () routine is available.
?S:.
?S:d_localtime64:
?S: This variable conditionally defines the HAS_LOCALTIME64 symbol, which
?S: indicates to the C program that the localtime64 () routine is available.
?S:.
?S:d_gmtime64:
?S: This variable conditionally defines the HAS_GMTIME64 symbol, which
?S: indicates to the C program that the gmtime64 () routine is available.
```

```
?S:.
?S:d_mktime64:
?S: This variable conditionally defines the HAS_MKTIME64 symbol, which
?S: indicates to the
 C program that the mktime64 () routine is available.
?S:.
?S:d_difftime64:
?S: This variable conditionally defines the HAS_DIFFTIME64 symbol, which
?S: indicates to the C program that the difftime64 () routine is available.
?S:.
?S:d_asctime64:
?S: This variable conditionally defines the HAS_ASCTIME64 symbol, which
?S: indicates to the C program that the asctime64 () routine is available.
?S:.
?C:HAS_CTIME64:
?C: This symbol, if defined, indicates that the ctime64 () routine is
?C: available to do the 64bit variant of ctime ()
?C:.
?C:HAS_LOCALTIME64:
?C: This symbol, if defined, indicates that the localtime64 () routine is
?C: available to do the 64bit variant of localtime ()
?C:.
?C:HAS_GMTIME64:
?C: This symbol, if defined, indicates that the gmtime64 () routine is
?C: available to do the 64bit variant of gmtime ()
?C:.
?C:HAS_MKTIME64:
?C: This symbol, if defined, indicates that the mktime64 () routine is
?C: available to do the 64bit variant of mktime ()
?C:.
?C:HAS_DIFFTIME64:
?C: This
 symbol, if defined, indicates that the difftime64 () routine is
?C: available to do the 64bit variant of difftime ()
?C:.
?C:HAS_ASCTIME64:
?C: This symbol, if defined, indicates that the asctime64 () routine is
?C: available to do the 64bit variant of asctime ()
?C:.
?H:#$d_ctime64 HAS_CTIME64  /**/
?H:#$d_localtime64 HAS_LOCALTIME64  /**/
?H:#$d_gmtime64 HAS_GMTIME64  /**/
?H:#$d_mktime64 HAS_MKTIME64  /**/
?H:#$d_difftime64 HAS_DIFFTIME64  /**/
?H:#$d_asctime64 HAS_ASCTIME64  /**/
?H:.
?LINT:set d_ctime64 d_localtime64 d_gmtime64 d_mktime64 d_difftime64 d_asctime64
: see if 64bit time functions exists
```

```
set ctime64 d_ctime64
eval $inlibc

set localtime64 d_localtime64
eval $inlibc

set gmtime64 d_gmtime64
eval $inlibc

set mktime64 d_mktime64
eval $inlibc

set difftime64 d_difftime64
eval $inlibc

set asctime64 d_asctime64
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_timefuncs64.U
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```
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_const.U,v $
?RCS: Revision 3.0.1.1  1993/11/10  17:33:41  ram
?RCS: patch14: stronger const check with added typedef for MIPS cc
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_const: cat rm cc ccflags Setvar
?MAKE: -pick add $@ %<
?S:d_const:
?S: This variable conditionally defines the HASCONST symbol, which
?S: indicates to the C program that this C compiler knows about the
?S: const type.
?S:.
```

```
?C:HASCONST ~ %<:
?C: This symbol,
 if defined, indicates that this C compiler knows about
?C: the const type. There is no need to actually test for that symbol
?C: within your programs. The mere use of the "const" keyword will
?C: trigger the necessary tests.
?C:.
?H:?%<:#$d_const HASCONST /**/
?H:?%<:#ifndef HASCONST
?H:?%<:#define const
?H:?%<:#endif
?H:.
?W:%<:const
?F:const.c const.o
?LINT:set d_const
?LINT:known const
: check for const keyword
echo " "
echo 'Checking to see if your C compiler knows about "const"...' >&4
$cat >const.c <<'EOCP'
?X: mmcg@bruce.cs.monash.edu.au reports that:
?X: The MIPS cc compiler (V2.10) on a dec 5000 running Ultrix 4.2A
?X: pretends to understand `const' but doesn't - it'll also fail to
?X: handle typedefs properly if they're declared const. To guard
?X: against this, boost up the test by using an explicit typedef...
typedef struct spug { int drokk; } spug;
int main()
{
 const char *foo;
 const spug y;
}
EOCP
if $cc -c $ccflags const.c >/dev/null 2>&1 ; then
 val="$define"
 echo "Yup,
 it does."
else
 val="$undef"
 echo "Nope, it doesn't."
fi
set d_const
eval $setvar
$rm -f const.c const.o
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_const.U

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```
?RCS: $Id: d_random_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_random_r random_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_stdlib extern_C
?MAKE: -pick add $@ %<
?S:d_random_r:
?S: This variable conditionally defines the HAS_RANDOM_R symbol,
?S: which indicates to the C program that the random_r()
?S: routine is available.
?S:.
?S:random_r_proto:
?S: This variable encodes the prototype of random_r.
?S: It is zero if d_random_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_random_r
?S: is defined.
?S:.
?C:HAS_RANDOM_R:
?C: This symbol, if defined, indicates that the random_r routine
?C: is available to random re-entrantly.
?C:.
?C:RANDOM_R_PROTO:
?C: This
 symbol encodes the prototype of random_r.
?C: It is zero if d_random_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_random_r
?C: is defined.
?C:.
?H:#$d_random_r HAS_RANDOM_R /**/
?H:#define RANDOM_R_PROTO $random_r_proto /**/
?H:.
?T:try hdrs d_random_r_proto
: see if random_r exists
set random_r d_random_r
eval $inlibc
case "$d_random_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_stdlib stdlib.h"
 case "$d_random_r_proto:$usethreads" in
 ":define") d_random_r_proto=define
  set d_random_r_proto random_r $hdrs
```

```
 eval $hasproto ;;
*) ;;
esac
case "$d_random_r_proto" in
define)
case "$random_r_proto" in
"|0) try='int random_r(int*, struct random_data*);'
./protochk "$extern_C $try" $hdrs && random_r_proto=I_iS ;;
esac
case "$random_r_proto" in
"|0) try='int random_r(long*, struct random_data*);'
./protochk "$extern_C $try" $hdrs && random_r_proto=I_lS ;;
esac
case "$random_r_proto" in
"|0)
try='int random_r(struct random_data*, int32_t*);'
./protochk "$extern_C $try" $hdrs && random_r_proto=I_St ;;
esac
case "$random_r_proto" in
"|0) d_random_r=undef
 random_r_proto=0
 echo "Disabling random_r, cannot determine prototype." >&4 ;;
* ) case "$random_r_proto" in
 REENTRANT_PROTO*) ;;
 *) random_r_proto="REENTRANT_PROTO_$random_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "random_r has no prototype, not using it." >&4 ;;
 esac
 d_random_r=undef
 random_r_proto=0
 ;;
esac
;;
*) random_r_proto=0
;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_random_r.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Magic_h.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:

```
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Magic_h.U,v $
?RCS: Revision 3.0.1.2  1993/11/10  17:32:58  ram
?RCS: patch14: forgot to mention Id in the dependencies
?RCS:
?RCS: Revision 3.0.1.1  1993/10/16  13:46:59  ram
?RCS: patch12: created for ?M: lines support (magic symbols)
?RCS:
?X:
?X: This file ends up producing the confmagic.h include, which is used to
?X: automagically remap some C symbols via cpp redefinitions.
?X:
?X: The file ./Magic_h below contains all the ?M: lines extracted out
 of all
?X: the units.  Metaconfig itself adds the final #endif statement.
?X: Note that this code isn't included into Configure, but must be shipped with.
?X:
?MAKE:Magic_h: Id Config_h
?MAKE: -pick cm_h_weed $@ %<
?MAKE: -pick cm_h_weed $@ ./Magic_h
?LINT:nocomment
/*
* This file was produced by running metaconfig and is intended to be included
* after config.h and after all the other needed includes have been dealt with.
*
* This file may be empty, and should not be edited. Rerun metaconfig instead.
* If you wish to get rid of this magic, remove this file and rerun metaconfig
* without the -M option.
*
*  $Id: Magic_h.U 1 2006-08-24 12:32:52Z rmanfredi $
*/

#ifndef _confmagic_h_
#define _confmagic_h_
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Magic_h.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: i_stdlib.U 1 2006-08-24 12:32:52Z rmanfredi $

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_stdlib.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_stdlib: Inhdr
?MAKE: -pick add $@ %<
?S:i_stdlib:
?S: This variable conditionally defines the I_STDLIB symbol, which
?S: indicates to the C program that <stdlib.h> exists and should
?S: be included.
?S:.
?C:I_STDLIB:
?C: This symbol, if defined, indicates that <stdlib.h> exists and should
?C: be included.
?C:.
?H:#$i_stdlib I_STDLIB  /**/
?H:.
?LINT:set
 i_stdlib
: see if stdlib is available
set stdlib.h i_stdlib
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_stdlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: usethreads.U,v $
?RCS:
?RCS: Copyright (c) 1998-2000 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: usethreads.U,v $
?RCS:
?MAKE:usethreads useithreads d_oldpthreads usereentrant: \
 Myread Oldconfig Setvar test cat
```

```
?MAKE: -pick add $@ %<
?Y:TOP
?S:usethreads:
?S: This variable conditionally defines the USE_THREADS symbol,
?S: and indicates that Perl should be built to use threads.
?S:.
?S:useithreads:
?S: This variable conditionally defines the USE_ITHREADS symbol,
?S: and indicates that Perl should be built to use the interpreter-based
?S: threading implementation.
?S:.
?X: I'm putting old_pthreads in this unit because it might eventually
?X: be part of an automatic determination to see if we can use threads
?X: at all.
?S:d_oldpthreads:
?S: This variable conditionally
 defines the OLD_PTHREADS_API symbol,
?S: and indicates that Perl should be built to use the old
?S: draft POSIX threads API.  This is only potentially meaningful if
?S: usethreads is set.
?S:.
?S:usereentrant:
?S: This variable conditionally defines the USE_REENTRANT_API symbol,
?S: which indicates that the thread code may try to use the various
?S: _r versions of library functions.  This is only potentially
?S: meaningful if usethreads is set and is very experimental, it is
?S: not even prompted for.
?S:.
?C:USE_ITHREADS:
?C: This symbol, if defined, indicates that Perl should be built to
?C: use the interpreter-based threading implementation.
?C:.
?C:USE_THREADS:
?C: This symbol, if defined, indicates that Perl should
?C: be built to use threads.  At present, it is a synonym for
?C: and USE_ITHREADS, but eventually the source ought to be
?C: changed to use this to mean _any_ threading implementation.
?C:.
?C:OLD_PTHREADS_API:
?C: This symbol, if defined, indicates that Perl should
?C: be
 built to use the old draft POSIX threads API.
?C:.
?C:USE_REENTRANT_API:
?C: This symbol, if defined, indicates that Perl should
?C: try to use the various _r versions of library functions.
?C: This is extremely experimental.
?C:.
```

```
?H:#$useithreads USE_ITHREADS  /**/
?H:#$usethreads  USE_THREADS  /**/
?H:#$d_oldpthreads OLD_PTHREADS_API  /**/
?H:#$usereentrant USE_REENTRANT_API /**/
?H:.
?LINT:set usethreads d_oldpthreads
?INIT:: set usethreads on the Configure command line to enable threads.
?INIT:usereentrant='undef'
?F:!usethreads.cbu
: Do we want threads support and if so, what type
?X: We should really have some explanatory text here, and some
?X: automatic setting of sensible defaults.
case "$usethreads" in
$define|true|[yY]*)     dflt='y';;
*)     # Catch case where user specified ithreads but
     # forgot -Dusethreads (A.D. 4/2002)
     case "$useithreads" in
     *$define*) dflt='y';;
     *)  dflt='n';;
     esac
     ;;
esac
cat <<EOM

Perl can be built to
 offer a form of threading support on some systems
To do so, Configure can be run with -Dusethreads.

Note that Perl built with threading support runs slightly slower
and uses slightly more memory than plain Perl.

If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp='Build a threading Perl?'
. ./myread
case "$ans" in
y|Y)    val="$define" ;;
*)      val="$undef" ;;
esac
set usethreads
eval $setvar

useithreads="$usethreads"

?X: Check out what kind of threads API we have
case "$d_oldpthreads" in
") : Configure tests would be welcome here.  For now, assume undef.
 val="$undef" ;;
```

```
*) val="$d_oldpthreads" ;;
esac
set d_oldpthreads
eval $setvar

?X: In general, -lpthread needs to come before -lc but after other
?X: libraries such as -lgdbm and such like. We assume here that -lc
?X: is present in libswanted. If that fails to be true, then this
?X: can be changed to add pthread to the very end of libswanted.

: Look for a hint-file generated 'call-back-unit'.  If the
:
 user has specified that a threading perl is to be built,
: we may need to set or change some other defaults.
if $test -f usethreads.cbu; then
   echo "Your platform has some specific hints regarding threaded builds, using them..."
   . ./usethreads.cbu
else
   case "$usethreads" in
 "$define"|true|[yY]*)
  $cat <<EOM
(Your platform does not have any specific hints for threaded builds.
Assuming POSIX threads, then.)
EOM
 ;;
   esac
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/usethreads.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Csym.U,v 3.0.1.4 1995/07/25 13:36:29 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Csym.U,v $
?RCS: Revision 3.0.1.4  1995/07/25  13:36:29  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS: patch56: added quotes for OS/2 support
?RCS:
```

```
?RCS: Revision 3.0.1.3  1995/05/12  12:00:33  ram
?RCS: patch54: fixed C test program to bypass gcc builtin type checks (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/10/31  09:34:13  ram
?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U
?RCS:
?RCS: Revision
 3.0.1.1  1993/08/25  14:00:05  ram
?RCS: patch6: added ldflags as a conditional dependency and to compile line
?RCS: patch6: a final double quote was missing in csym variable after eval
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:Csym mistrustnm extern_C: Options contains libc libs runnm test \
 +cc +optimize +ccflags +ldflags run rm_try _exe d_cplusplus
?MAKE: -pick add $@ %<
?LINT:define csym
?LINT:use libc
?LINT:extern mistrustnm
?LINT:set mistrustnm
?S:csym:
?S: This shell variable is used internally by Configure to check
?S: whether a given C symbol is defined or not. A typical use is:
?S:  set symbol result [-fva] [previous]
?S:  eval $csym
?S: That will set result to 'true' if the function [-f], variable [-v]
?S: or array [-a] is defined, 'false' otherwise. If a previous value is
?S: given and the -r flag was provided on the command line, that value
?S: is reused without questioning.
?S:.
?S:extern_C:
?S: ANSI C
 requires 'extern' where C++ requires 'extern "C"'. This
?S: variable can be used in Configure to do the right thing.
?S:.
?S:mistrustnm:
?S: This variable can be used to establish a fallthrough for the cases
?S: where nm fails to find a symbol.  If usenm is false or usenm is true
?S: and mistrustnm is false, this variable has no effect.  If usenm is true
?S: and mistrustnm is "compile", a test program will be compiled to try to
?S: find any symbol that can't be located via nm lookup.  If mistrustnm is
?S: "run", the test program will be run as well as being compiled.
?S:.
?V:csym
?T:tval tx tlook tf tdc
?F:!try
: is a C symbol defined?
```

```
csym='tlook=$1;
case "$3" in
-v) tf=libc.tmp; tdc="";;
-a) tf=libc.tmp; tdc="[]";;
*) tlook="^$1\$"; tf=libc.list; tdc="()";;
esac;
case "$d_cplusplus" in
   $define) extern_C="extern \"C\"" ;;
   *)  extern_C="extern" ;;
esac;
tx=yes;
case "$reuseval-$4" in
true-) ;;
true-*) tx=no; eval "tval=\$$4"; case "$tval" in "") tx=yes;; esac;;
esac;
case "$tx"
 in
yes)
?X:
?X: Put symbol inside a printf to fool optimizing compilers...
?X:
?X: We use 'short' instead of 'int' to try to circumvent overzealous
?X: optimizing compilers using built-in prototypes for commonly used
?X: routines to complain when seeing a different external declaration. For
?X: instance, gcc 2.6.3 fails if we use 'int' and we attempt a test against
?X: memcpy() on machines where sizeof(int) == sizeof(char *) (the usual return
?X: type), the compiler assuming it's a built-in declaration given that the
?X: returned size matches. At least with 'short' we are safe! -- RAM, for ADO
?X:
?X: Let's thank GNU cc for making our lives so easy! :-)
?X: (An alternative for the future would be to use our knowledge about gcc
?X: to force a -fno-builtin option in the compile test, in case the 'short'
?X: trick is obsoleted by future gcc releases). -- RAM
?X:
 tval=false;
 if $test "$runnm" = true; then
  if $contains $tlook $tf >/dev/null 2>&1; then
   tval=true;
  elif $test "$mistrustnm"
 = compile -o "$mistrustnm" = run; then
   echo "$extern_C void *$1$tdc; void *(*(p()))$tdc { return &$1; } int main(int argc, char **argv) { if(p() && p() !=
(void *)argv[0]) return(0); else return(1); }"> try.c;
   $cc -o try $optimize $ccflags $ldflags try.c >/dev/null 2>&1 $libs && tval=true;
   $test "$mistrustnm" = run -a -x try && { $run ./try$_exe >/dev/null 2>&1 || tval=false; };
   $rm_try;
  fi;
 else
  echo "$extern_C void *$1$tdc; void *(*(p()))$tdc { return &$1; } int main(int argc, char **argv) { if(p() && p() !=
```

```
(void *)argv[0]) return(0); else return(1); }"> try.c;
  $cc -o try $optimize $ccflags $ldflags try.c $libs >/dev/null 2>&1 && tval=true;
  $rm_try;
 fi;
 ;;
*)
 case "$tval" in
 $define) tval=true;;
 *) tval=false;;
 esac;
 ;;
esac;
eval "$2=$tval"'
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/Csym.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: cppfilecom.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Orginal Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: cppfilecom.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:37  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:cppfilecom cppstdinflags d_cppignhdrs d_cppcanstdin: \
 contains package test Myread Oldconfig Loc Setvar cpp cc cat rm
?MAKE: -pick add $@ %<
?S:cppfilecom:
?S: This variable contains the first part of the string which will invoke
?S: the C preprocessor a file
 and produce to standard output, preserving
?S: comments. Typical value of "cc -E -C" or "/lib/cpp -C".
?S:.
?S:cppstdinflags:
?S: This variable contains any flags necessary to get cppfilecom to read
?S: from the standard input.
?S:.
```

```
?S:d_cppignhdrs:
?S: This symbol conditionally defines CPP_IGN_HDRS if CPP_FILE_COM ignores
?S: *.h files.
?S:.
?S:d_cppcanstdin:
?S: This symbol conditionally defines CPP_CAN_STDIN if CPP_FILE_COM can
?S: read standard input directly.
?S:.
?C:CPP_FILE_COM (CPPFILECOM):
?C: This symbol contains the first part of the string which will invoke
?C: the C preprocessor a file and produce to standard output, preserving
?C: comments. Typical value of "cc -E -C" or "/lib/cpp -C".
?C:.
?C:CPP_STDIN_FLAGS (CPPSTDINFLAGS):
?C: This variable contains any flags necessary to get CPP_FILE_COM to
?C: read from the standard input.
?C:.
?C:CPP_IGN_HDRS (CPPIGNHDRS):
?C: This symbol is defined if CPP_FILE_COM ignores *.h files.
?C:.
?C:CPP_CAN_STDIN (CPPCANSTDIN):
?C: This
 symbol is defined if CPP_FILE_COM can read standard input
?C: directly.
?C:.
?H:#define CPP_FILE_COM "$cppfilecom"
?H:#define CPP_STDIN_FLAGS "$cppstdinflags"
?H:#$d_cppignhdrs CPP_IGN_HDRS  /* does CPP ignore .h files? */
?H:#$d_cppcanstdin CPP_CAN_STDIN  /* can CPP read stdin directly? */
?H:.
?T:cont
?F:!testcpp.c !testcpp.h !testcpp.out
?LINT:set d_cppcanstdin d_cppignhdrs
?LINT:usefile testcpp.c testcpp.out
: see how we invoke the C preprocessor
$cat <<EOM

$package needs to be able to preprocess its input files in a mode which
preserves comments, which is often not the default behaviour.  It should run
the C preprocessor you will use when compiling your own source code, which
should be ISO/ANSI C compliant if you want $package to handle the latest
standard C.  I will try to guess, but I might guess wrongly because it is not
necessarily the same preprocessor used to build $package.

EOM
$cat <<'EOT' >testcpp.c
#define ABC abc
#define XYZ xyz
```

```
ABC.XYZ
/* comment */
EOT
:
if $test "X$cppfilecom"
 != "X" && \
 $cppfilecom testcpp.c </dev/null >testcpp.out 2>/dev/null && \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
 $contains comment testcpp.out >/dev/null 2>&1
then
 echo "You used to use $cppfilecom so we'll use that again."
elif echo 'Maybe "'$cc' -E -C" will work...' && \
 $cc -E -C testcpp.c </dev/null >testcpp.out 2>/dev/null && \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
 $contains comment testcpp.out >/dev/null 2>&1
then
 echo "It works!"
 cppfilecom="$cc -E -C"
elif echo 'Nope...maybe """$cc"' -P -C" will work...' && \
 $cc -P -C testcpp.c </dev/null >testcpp.out 2>/dev/null && \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
 $contains comment testcpp.out >/dev/null 2>&1
then
 echo "Yup, that does."
 cppfilecom="$cc -P -C"
elif echo 'No such luck, maybe """$cpp"' -C" will work...' && \
 $cpp -C testcpp.c </dev/null >testcpp.out 2>/dev/null && \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
 $contains comment testcpp.out
 >/dev/null 2>&1
then
 echo "Yup, it does."
 cppfilecom="$cpp -C"
else
 cppfilecom="
 $cat <<'EOM'
I can't find a C preprocessor that will preserve comments. Please name one.
EOM
fi
:
dflt="$cppfilecom"
cont=true
while $test "$cont" ; do
 echo " "
 rp="How should $package run your preprocessor preserving comments?"
 . ./myread
 cppfilecom="$ans"
 $cppfilecom testcpp.c >testcpp.out 2>&1
```

```
 if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
  $contains comment testcpp.out >/dev/null 2>&1
 then
  echo "OK, that will do."
  cont=''
 else
  echo "Sorry, I can't get that to work."
 fi
done

@if CPP_IGN_HDRS || d_cppignhdrs
: Now see if it ignores header files.
cp testcpp.c testcpp.h
$cppfilecom testcpp.h >testcpp.out 2>&1
if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
 $contains comment testcpp.out >/dev/null 2>&1
then
 echo "Terrific; it processes .h files passed on the command line too."
 val="$undef"
else
 echo "It ignores .h files on the command line; pity."
 val="$define"
fi
set
 d_cppignhdrs
eval $setvar

@end
@if CPP_STDIN_FLAGS || CPP_CAN_STDIN || cppstdinflags || d_cppcanstdin
: Now see how to send stdin to it.
echo " "
cp testcpp.c testcpp.h
$cppfilecom <testcpp.h >testcpp.out 2>&1
if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
 $contains comment testcpp.out >/dev/null 2>&1
then
 echo "Great; and it will read stdin if passed no arguments."
 val="$define"
 cppstdinflags=''
else
 $cppfilecom - <testcpp.h >testcpp.out 2>&1
 if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
  $contains comment testcpp.out >/dev/null 2>&1
 then
  echo "Great; and it can read stdin by passing it '-'."
  val="$define"
  cppstdinflags='-'
 else
```

```
  $cat <<FOO
Unfortunately, I can't find an easy way to get that preprocessor to read from
standard input. Do you know any flags I can pass it to get it to do so?
If that preprocessor can't read directly form standard input, answer 'none'.

FOO
 val='dunno'
 while $test "$val" = "dunno"; do
  rp='Flags to get preprocessor
 to read stdin?'
  dflt='none'
  . ./myread
  if $test $ans = 'none'; then
   echo "Oh well, if $package wants it done, it will do it for itself."
   val="$undef"
  else
   $cppfilecom $ans <testcpp.h >testcpp.out 2>&1
   if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
    $contains comment testcpp.out >/dev/null 2>&1
   then
    echo "Good; that works fine."
    val="$define"
    cppstdinflags="$ans"
   else
    echo "Sorry, I couldn't get that to work."
   fi
  fi
 done
 fi
fi
set d_cppcanstdin
eval $setvar

@end
: cleanup cpp test files anyway
$rm -f testcpp.*

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
5.36.0/dist/U/cppfilecom.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id$
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
```

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_ustat: Inlibc
?MAKE: -pick add $@ %<
?S:d_ustat:
?S: This variable conditionally defines HAS_USTAT if ustat() is
?S: available to query file system statistics by dev_t.
?S:.
?C:HAS_USTAT:
?C: This symbol, if defined, indicates that the ustat system call is
?C: available to query file system statistics by dev_t.
?C:.
?H:#$d_ustat HAS_USTAT  /**/
?H:.
?LINT:set d_ustat
: see if ustat exists
set ustat d_ustat
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_ustat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Options.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Options.U,v $
?RCS: Revision 3.0.1.7  1997/02/28  15:08:15  ram
?RCS: patch61: optdef.sh now starts with a "startsh"
?RCS: patch61: moved some code from Head.U
?RCS:
?RCS: Revision 3.0.1.6  1995/09/25  09:14:46  ram
?RCS: patch59: protected option parsing code against 'echo -*' option failure
?RCS:
?RCS: Revision 3.0.1.5  1995/05/12  12:04:52  ram
?RCS: patch54: added -K option for experts
?RCS:
?RCS: Revision 3.0.1.4  1995/01/30  14:27:52  ram
```

```
?RCS:
 patch49: this unit now exports file optdef.sh, not a variable
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:19:00  ram
?RCS: patch45: new -O option allowing -D and -U to override config.sh settings
?RCS: patch45: file optdef.sh is no longer removed after sourcing
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  15:58:06  ram
?RCS: patch36: ensure option definition file is removed before appending
?RCS: patch36: protect variable definitions with spaces in them
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:55:44  ram
?RCS: patch30: now uses new me symbol to tag error messages
?RCS: patch30: new -D and -U options to define/undef symbols (JHI)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Command line parsing. It is really important that the variables used here
?X: be not listed in the MAKE line, or they will be saved in config.sh and
?X: loading this file to fetch default answers would clobber the values set
?X: herein.
?X:
?MAKE:Options:
 startsh
?MAKE: -pick wipe $@ %<
?V:reuseval alldone error realsilent silent extractsh fastread \
 knowitall: config_sh
?T:arg argn symbol config_arg0 config_args config_argc xxx yyy zzz uuu
?T:args_exp args_sep arg_exp ccflags
?F:!Configure
?F:./optdef.sh ./cmdline.opt ./posthint.sh ./cmdl.opt
: Save command line options in file UU/cmdline.opt for later use in
: generating config.sh.
?X: This temporary file will be read by Oldsym.U.  I used a temporary
?X: file to preserve all sorts of potential command line quotes and
?X: also because we don't know in advance how many variables we'll
?X: need, so I can't actually declare them on the MAKE line.
?X: The config_args variable won't be quite correct if Configure is
?X: fed something like    ./Configure -Dcc="gcc -B/usr/ccs/bin/"
?X: since the quotes are gone by the time we see them.  You'd have to
?X: reconstruct the command line from the config_arg? lines, but since
?X: I don't imagine anyone actually having to do that, I'm not going
?X:
 to worry too much.
cat > cmdline.opt <<EOSH
: Configure command line arguments.
```

```
config_arg0='$0'
config_args='$*'
config_argc=$#
EOSH
argn=1
args_exp=''
args_sep=''
for arg in "$@"; do
 cat >>cmdline.opt <<EOSH
config_arg$argn='$arg'
EOSH
?X: Extreme backslashitis: replace each ' by '''''
 cat <<EOC | sed -e "s/'/'''''''''''''''/g" > cmdl.opt
$arg
EOC
 arg_exp=`cat cmdl.opt`
 args_exp="$args_exp$args_sep'$arg_exp'"
 argn=`expr $argn + 1`
 args_sep=' '
done
?X: args_exp is good for restarting self: eval "set X $args_exp"; shift; $0 "$@"
?X: used by hints/os2.sh in Perl, for instance
rm -f cmdl.opt

: produce awk script to parse command line options
cat >options.awk <<'EOF'
BEGIN {
 optstr = "A:dD:eEf:hKOrsSU:V"; # getopt-style specification

 len = length(optstr);
 for (i = 1; i <= len; i++) {
  c = substr(optstr, i, 1);
?X: some older awk's do not have the C ?: construct
  if (i < len) a = substr(optstr, i + 1, 1); else a = "";
  if (a == ":") {
   arg[c] = 1;
   i++;
  }
  opt[c]
 = 1;
 }
}
{
 expect = 0;
 str = $0;
 if (substr(str, 1, 1) != "-") {
  printf("'%s'\n", str);
  next;
```

```
 }
 len = length($0);
 for (i = 2; i <= len; i++) {
  c = substr(str, i, 1);
  if (!opt[c]) {
   printf("-%s\n", substr(str, i));
   next;
  }
  printf("-%s\n", c);
  if (arg[c]) {
   if (i < len)
    printf("'%s'\n", substr(str, i + 1));
   else
    expect = 1;
   next;
  }
 }
}
END {
 if (expect)
  print "?";
}
EOF

: process the command line options
?X: Use "$@" to keep arguments with spaces in them from being split apart.
?X: For the same reason, awk will output quoted arguments and the final eval
?X: removes them and sets a proper $* array. An 'X' is prepended to each
?X: argument before being fed to echo to guard against 'echo -x', where -x
?X: would be understood as an echo option! It is removed before feeding awk.
set X `for arg in "$@"; do echo "X$arg"; done |
 sed -e s/X// | awk -f options.awk`
eval "set $*"
shift
rm -f options.awk

: set up default values
fastread=''
reuseval=false
config_sh=''
alldone=''
error=''
silent=''
extractsh=''
knowitall=''
rm
 -f optdef.sh posthint.sh
cat >optdef.sh <<EOS
```

```
$startsh
EOS

?X:
?X: Given that we now have the possibility to execute Configure remotely
?X: thanks to the new src.U support, we have to face the possibility
?X: of having to ask where the source lie, which means we need the Myread.U
?X: stuff and possibly other things that might echo something on the
?X: screen...
?X:
?X: That's not pretty, and might be confusing in 99% of the time. So...
?X: We introduce a new realsilent variable which is set when -s is given,
?X: and we force silent=true if -S is supplied. The Extractall.U unit
?X: will then undo the >&4 redirection based on the value of the
?X: realsilent variable... -- RAM, 18/93/96
?X:

: option parsing
while test $# -gt 0; do
 case "$1" in
 -d) shift; fastread=yes;;
 -e) shift; alldone=cont;;
 -f)
  shift
  cd ..
  if test -r "$1"; then
   config_sh="$1"
  else
   echo "$me: cannot read config file $1."
 >&2
   error=true
  fi
  cd UU
  shift;;
 --help|\
 -h) shift; error=true;;
 -r) shift; reuseval=true;;
 -s) shift; silent=true; realsilent=true;;
 -E) shift; alldone=exit;;
 -K) shift; knowitall=true;;
 -O) shift;;
 -S) shift; silent=true; extractsh=true;;
 -D)
  shift
  case "$1" in
  *=)
   echo "$me: use '-U symbol=', not '-D symbol='." >&2
   echo "$me: ignoring -D $1" >&2
```

```
 ;;
 *=*) echo "$1" | \
   sed -e "s/'/'\''\''/g" -e "s/=\(.*\)/='\1'/" >> optdef.sh;;
 *) echo "$1='define'" >> optdef.sh;;
 esac
 shift
 ;;
-U)
 shift
 case "$1" in
 *=) echo "$1" >> optdef.sh;;
 *=*)
  echo "$me: use '-D symbol=val', not '-U symbol=val'." >&2
  echo "$me: ignoring -U $1" >&2
  ;;
 *) echo "$1='undef'" >> optdef.sh;;
 esac
 shift
 ;;
-A)
    shift
    xxx=''
    yyy="$1"
    zzz=''
    uuu=undef
    case "$yyy" in
          *=*) zzz=`echo "$yyy"|sed 's!=.*!!'`
               case "$zzz" in
               *:*) zzz='' ;;
               *)   xxx=append

               zzz=' '`echo "$yyy"|sed 's!^[^=]*=!!'`
                    yyy=`echo "$yyy"|sed 's!=.*!!'` ;;
               esac
               ;;
          esac
          case "$xxx" in
          '')  case "$yyy" in
               *:*) xxx=`echo "$yyy"|sed 's!:.*!!'`
                    yyy=`echo "$yyy"|sed 's!^[^:]*:!!'`
                    zzz=`echo "$yyy"|sed 's!^[^=]*=!!'`
                    yyy=`echo "$yyy"|sed 's!=.*!!'` ;;
               *)   xxx=`echo "$yyy"|sed 's!:.*!!'`
                    yyy=`echo "$yyy"|sed 's!^[^:]*:!!'` ;;
               esac
               ;;
          esac
    case "$xxx" in
```

```
    append)
  echo "$yyy=\"\${$yyy}$zzz\"" >> posthint.sh ;;
    clear)
  echo "$yyy=""   >> posthint.sh ;;
    define)
        case "$zzz" in
  ") zzz=define ;;
  esac
  echo "$yyy='$zzz'"  >> posthint.sh ;;
    eval)
  echo "eval \"$yyy=$zzz\"" >> posthint.sh ;;
    prepend)
  echo "$yyy=\"$zzz\${$yyy}\"" >> posthint.sh ;;
    undef)

      case "$zzz" in
  ") zzz="$uuu" ;;
  esac
  echo "$yyy=$zzz"  >> posthint.sh ;;
          *)  echo "$me: unknown -A command '$xxx', ignoring -A $1" >&2 ;;
    esac
    shift
    ;;
 -V) echo "$me generated by metaconfig <VERSION> PL<PATCHLEVEL>." >&2
    exit 0;;
 --) break;;
 -*) echo "$me: unknown option $1" >&2; shift; error=true;;
 *) break;;
 esac
done

case "$error" in
true)
 cat >&2 <<EOM
Usage: $me [-dehrsEKOSV] [-f config.sh] [-D symbol] [-D symbol=value]
               [-U symbol] [-U symbol=] [-A command:symbol...]
 -d : use defaults for all answers.
 -e : go on without questioning past the production of config.sh.
 -f : specify an alternate default configuration file.
 -h : print this help message and exit (with an error status).
 -r : reuse C symbols value if possible (skips costly nm extraction).
 -s : silent mode, only echoes questions and essential information.
 -D : define symbol to have some value:
        -D symbol               symbol gets the
 value 'define'
        -D symbol='some value'   symbol is set to 'some value'
      common used examples (see INSTALL for more info):
        -Duse64bitint           use 64bit integers
```

```
        -Duse64bitall           use 64bit integers and pointers
        -Dusethreads            use thread support
        -Dinc_version_list=none  do not include older perl trees in @INC
        -DEBUGGING=none         DEBUGGING options
        -Dcc=gcc                choose your compiler
        -Dprefix=/opt/perl5     choose your destination
 -E : stop at the end of questions, after having produced config.sh.
 -K : do not use unless you know what you are doing.
 -O : ignored for backward compatibility
 -S : perform variable substitutions on all .SH files (can mix with -f)
 -U : undefine symbol:
        -U symbol    symbol gets the value 'undef'
        -U symbol=   symbol gets completely empty
      e.g.:  -Uversiononly
 -A : manipulate symbol after the platform specific hints
 have been applied:
        -A append:symbol=value   append value to symbol
        -A symbol=value          like append:, but with a separating space
        -A define:symbol=value   define symbol to have value
        -A clear:symbol          define symbol to be ''
        -A define:symbol         define symbol to be 'define'
        -A eval:symbol=value     define symbol to be eval of value
        -A prepend:symbol=value  prepend value to symbol
        -A undef:symbol          define symbol to be 'undef'
        -A undef:symbol=         define symbol to be ''
      e.g.:  -A prepend:libswanted='cl pthread '
             -A ccflags=-DSOME_MACRO
 -V : print version number and exit (with a zero status).
EOM
 exit 1
 ;;
esac

?X:
?X: Unless they specified either -S or both -d and -e/E, make sure we're
?X: running interactively, i.e. attached to a terminal. Moved from Head.U to
?X: be able to handle batch configurations...
?X:
?X: We have to hardwire the Configure name and
 cannot use $me, since if they
?X: said 'sh <Configure', then $me is 'sh'...
?X:
: Sanity checks
case "$fastread$alldone" in
yescont|yesexit) ;;
*)
 case "$extractsh" in
 true) ;;
```

```
 *)
  if test ! -t 0; then
   echo "Say 'sh Configure', not 'sh <Configure'"
   exit 1
  fi
  ;;
 esac
 ;;
esac

?X: In silent mode, the standard output is closed. Questions are asked by
?X: outputing on file descriptor #4, which is the original stdout descriptor.
?X: This filters out all the "junk", since all the needed information is written
?X: on #4. Note that ksh will not let us redirect output if the file descriptor
?X: has not be defined yet, unlike sh, hence the following line...--RAM.
exec 4>&1
case "$silent" in
true) exec 1>/dev/null;;
esac

: run the defines and the undefines, if any, but leave the file out there...
touch optdef.sh
?X: -q is POSIX
?X: It does not work in SysV (solaris) or old BSD greps.
grep '\\' optdef.sh >/dev/null 2>&1
if test $? = 0; then
   echo "Configure does not support \\
 in -D arguments"
   exit 1
fi
. ./optdef.sh
: create the posthint manipulation script and leave the file out there...
?X: this file will be perused by Oldconfig.U
touch posthint.sh
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Options.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_uwait.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_uwait.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:10:49  ram
?RCS: patch16: added knowledge about wait3()
?RCS: patch16: revised 'union wait' look-up algorithm
?RCS: patch16: fixed make dependency line accordingly
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_uwait d_uwait3: cat contains cppstdin cppminus +cppflags rm \
 Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_uwait:
?S: This symbol
 conditionally defines UNION_WAIT which indicates to the C
?S: program that argument for the wait() system call should be declared as
?S: 'union wait status' instead of 'int status'.
?S:.
?S:d_uwait3:
?S: This symbol conditionally defines UNION_WAIT3 which indicates to the C
?S: program that the first argument for the wait3() system call should be
?S: declared as 'union wait status' instead of 'int status'.
?S:.
?C:UNION_WAIT:
?C: This symbol if defined indicates to the C program that the argument
?C: for the wait() system call should be declared as 'union wait status'
?C: instead of 'int status'. You probably need to include <sys/wait.h>
?C: in the former case (see I_SYSWAIT).
?C:.
?C:UNION_WAIT3:
?C: This symbol if defined indicates to the C program that the first argument
?C: for the wait3() system call should be declared as 'union wait status'
?C: instead of 'int status'. You probably need to include <sys/wait.h>
?C: in the former case (see I_SYSWAIT). It seems safe to assume that
 the
?C: same rule applies to the second parameter of wait4().
?C:.
?H:#$d_uwait UNION_WAIT  /**/
?H:#$d_uwait3 UNION_WAIT3 /**/
?H:.
?T:val2 flags f also
?LINT:set d_uwait d_uwait3
: see if union wait is available
echo " "
?X:
?X: Unfortunately, we can't just grep <sys/wait.h> for "union wait" because
```

```
?X: some weird systems (did I hear HP-UX?) define union wait only when _BSD
?X: is defined. The same thing happens on OSF/1, who is pushing weirdness to
?X: its limits by requiring wait() to use (int *) but wait3() to use
?X: (union wait *), unless _BSD is defined and -lbsd is used, in which case
?X: wait() also expects (union wait *). Aaargh!!--RAM
?X:
set X $cppflags
shift
flags=''
also=''
for f in $*; do
 case "$f" in
 *NO_PROTO*) ;;
 *) flags="$flags $f";;
 esac
done
$cat `./findhdr sys/wait.h` /dev/null | \
 $cppstdin $flags $cppminus >wait.out 2>/dev/null
if $contains 'union.*wait.*{' wait.out >/dev/null 2>&1 ; then
 echo "Looks like your <sys/wait.h> knows about 'union wait'..."
 >&4
 val="$define"
@if UNION_WAIT
 also='also '
 if $contains 'extern.*wait[  ]*([  ]*int' wait.out >/dev/null 2>&1
 then
  echo "But wait() seems to expect an 'int' pointer (POSIX way)." >&4
  val="$undef"
  also=''
 elif $contains 'extern.*wait[  ]*([  ]*union' wait.out >/dev/null 2>&1
 then
  echo "And indeed wait() expects an 'union wait' pointer (BSD way)." >&4
 else
  echo "So we'll use that for wait()." >&4
 fi
@end
@if UNION_WAIT3 || d_uwait3
 val2="$define"
@end
@if UNION_WAIT3
 if $contains 'extern.*wait3[  ]*([  ]*int' wait.out >/dev/null 2>&1
 then
  echo "However wait3() seems to expect an 'int' pointer, weird." >&4
  val2="$undef"
 elif $contains 'extern.*wait3[  ]*([  ]*union' wait.out >/dev/null 2>&1
 then
  echo "And wait3() ${also}expects an 'union wait' pointer, fine." >&4
 else
```

```
  echo "As expected, wait3() ${also}uses an 'union wait' pointer." >&4
 fi
@end
else
 echo "No trace of 'union wait' in <sys/wait.h>..." >&4
 val="$undef"
@if UNION_WAIT && UNION_WAIT3
 echo
 "Both wait() and wait3() will use a plain 'int' pointer then." >&4
@elsif UNION_WAIT
 echo "Your wait() should be happy with a plain 'int' pointer." >&4
@elsif UNION_WAIT3
 echo "Your wait3() should be happy with a plain 'int' pointer." >&4
@end
fi
set d_uwait
eval $setvar
@if UNION_WAIT3 || d_uwait3
val="$val2"; set d_uwait3
eval $setvar
@end
$rm -f wait.out
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_uwait.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_msgsnd.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msgsnd.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:41  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_msgsnd: Inlibc
?MAKE: -pick add $@ %<
?S:d_msgsnd:
?S: This variable conditionally defines the HAS_MSGSND symbol, which
?S: indicates to the C program that the msgsnd() routine is available.
?S:.
```

```
?C:HAS_MSGSND:
?C: This symbol, if defined, indicates that the msgsnd() routine is
?C: available to send a message into the message queue.
?C:.
?H:#$d_msgsnd
 HAS_MSGSND  /**/
?H:.
?LINT:set d_msgsnd
: see if msgsnd exists
set msgsnd d_msgsnd
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_msgsnd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_pthread: Inhdr
?MAKE: -pick add $@ %<
?S:i_pthread:
?S: This variable conditionally defines the I_PTHREAD symbol,
?S: and indicates whether a C program should include <pthread.h>.
?S:.
?C:I_PTHREAD:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <pthread.h>.
?C:.
?H:#$i_pthread   I_PTHREAD /**/
?H:.
?LINT:set i_pthread
: see if POSIX threads are available
set pthread.h i_pthread
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/i_pthread.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: prototype.U,v $
?RCS: Revision 3.0.1.3  1994/05/06  15:11:49  ram
?RCS: patch23: ensure cc flags used when looking for prototype support
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:15:36  ram
?RCS: patch16: prototype handling macros now appear only when needed
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:03:12  ram
?RCS: patch6: defines were referring to non-existent VOID symbol
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:36  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:prototype:
 Myread Oldconfig cat +cc +ccflags rm Setvar
?MAKE: -pick add $@ %<
?S:prototype:
?S: This variable holds the eventual value of CAN_PROTOTYPE, which
?S: indicates the C compiler can handle funciton prototypes.
?S:.
?C:CAN_PROTOTYPE ~ %<:
?C: If defined, this macro indicates that the C compiler can handle
?C: function prototypes.
?C:.
?C:DOTS:
?C: This macro is used to specify the ... in function prototypes which
?C: have arbitrary additional arguments.
?C:.
?C:NXT_ARG:
?C: This macro is used to separate arguments in the declared argument list.
?C:.
?C:P_FUNC:
?C: This macro is used to declare "private" (static) functions.
?C: It takes three arguments: the function type and name, a parenthesized
?C: traditional (comma separated) argument list, and the declared argument
?C: list (in which arguments are separated with NXT_ARG, and additional
```

```
?C: arbitrary arguments are specified with DOTS).  For example:
?C:
?C:  P_FUNC(int foo, (bar, baz), int bar NXT_ARG char *baz[])
?C:.
?C:P_FUNC_VOID:
?C: This
 macro is used to declare "private" (static) functions that have
?C: no arguments.  The macro takes one argument: the function type and name.
?C: For example:
?C:
?C:  P_FUNC_VOID(int subr)
?C:.
?C:V_FUNC:
?C: This macro is used to declare "public" (non-static) functions.
?C: It takes three arguments: the function type and name, a parenthesized
?C: traditional (comma separated) argument list, and the declared argument
?C: list (in which arguments are separated with NXT_ARG, and additional
?C: arbitrary arguments are specified with DOTS).  For example:
?C:
?C:  V_FUNC(int main, (argc, argv), int argc NXT_ARG char *argv[])
?C:.
?C:V_FUNC_VOID:
?C: This macro is used to declare "public" (non-static) functions that have
?C: no arguments.  The macro takes one argument: the function type and name.
?C: For example:
?C:
?C:  V_FUNC_VOID(int fork)
?C:.
?C:_ (P):
?C: This macro is used to declare function parameters for folks who want
?C: to make declarations with prototypes using a
 different style than
?C: the above macros.  Use double parentheses.  For example:
?C:
?C:  int main _((int argc, char *argv[]));
?C:.
?H:?%<:#$prototype CAN_PROTOTYPE /**/
?H:?%<:#ifdef CAN_PROTOTYPE
?H:?NXT_ARG:#define NXT_ARG ,
?H:?DOTS:#define DOTS , ...
?H:?V_FUNC:#define V_FUNC(name, arglist, args)name(args)
?H:?P_FUNC:#define P_FUNC(name, arglist, args)static name(args)
?H:?V_FUNC_VOID:#define V_FUNC_VOID(name)name(void)
?H:?P_FUNC_VOID:#define P_FUNC_VOID(name)static name(void)
?H:?_:#define _(args) args
?H:?%<:#else
?H:?NXT_ARG:#define NXT_ARG ;
?H:?DOTS:#define DOTS
```

```
?H:?V_FUNC:#define V_FUNC(name, arglist, args)name arglist args;
?H:?P_FUNC:#define P_FUNC(name, arglist, args)static name arglist args;
?H:?V_FUNC_VOID:#define V_FUNC_VOID(name)name()
?H:?P_FUNC_VOID:#define P_FUNC_VOID(name)static name()
?H:?_:#define _(args) ()
?H:?%<:#endif
?H:.
?W:%<:NXT_ARG DOTS V_FUNC P_FUNC V_FUNC_VOID P_FUNC_VOID _
?LINT:set prototype
: Cruising for prototypes
echo " "
echo "Checking out
 function prototypes..." >&4
$cat >prototype.c <<'EOCP'
int main(int argc, char *argv[]) {
 exit(0);}
EOCP
if $cc $ccflags -c prototype.c >prototype.out 2>&1 ; then
 echo "Your C compiler appears to support function prototypes."
 val="$define"
else
 echo "Your C compiler doesn't seem to understand function prototypes."
 val="$undef"
fi
set prototype
eval $setvar
$rm -f prototype*
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/prototype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:i_poll: Inhdr
?MAKE: -pick add $@ %<
?S:i_poll:
?S: This variable conditionally defines the I_POLL symbol, which
?S: indicates to the C program that it should include <poll.h>.
```

```
?S:.
?C:I_POLL:
?C: This symbol, if defined, indicates that the program may include
?C: <poll.h>.  If there is no <poll.h>, then you may check I_SYS_POLL
?C: instead to see whether there is a <sys/poll.h> to include.
?C:.
?H:#$i_poll I_POLL /**/
?H:.
?LINT:set i_poll
: see if there is a poll.h file
set poll.h i_poll
eval $inhdr

Found
 in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
5.36.0/dist/U/i_poll.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Chk_MANI.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Chk_MANI.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  14:57:25  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/31  09:33:14  ram
?RCS: patch44: now lists Begin instead of Myinit in its dependencies
?RCS: patch44: leading comment now explains how this unit is included
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit checks the package by making sure
 every file listed in MANIFEST
?X: is present. It is systematically "included" via the Finish unit (which
?X: is always present in every Configure script), although it may result in
?X: an empty inclusion when no MANIFEST is present.
?X:
?MAKE:Chk_MANI: Begin c n rsrc
```

```
?MAKE: -pick wipe $@ %<
?T:filelist ans tmppwd
?X: This check happens at metaconfig-time, so it's ok to hard-code the path.
@if {test -f ../MANIFEST}
: Now test for existence of everything in MANIFEST
echo " "
if test -f "$rsrc/MANIFEST"; then
 echo "First let's make sure your kit is complete.  Checking..." >&4
?X:
?X: Files spelled uppercased and beginning with PACK are produced by the
?X: shell archive builder and may be removed by the user. Usually, they are
?X: not listed in the MANIFEST file, but you never know...
?X:
?X: "split -l" is the new way of running a split, but we also try the older way
?X:
 awk '$1 !~ /PACK[A-Z]+/ {print $1}' "$rsrc/MANIFEST" | \
  (split -l 50 2>/dev/null || split -50)
 rm -f missing
 tmppwd=`pwd`
 for
 filelist in x??; do
  (cd "$rsrc"; ls `cat "$tmppwd/$filelist"` \
   >/dev/null 2>>"$tmppwd/missing")
 done
 if test -s missing; then
  cat missing >&4
  cat >&4 <<'EOM'

THIS PACKAGE SEEMS TO BE INCOMPLETE.

You have the option of continuing the configuration process, despite the
distinct possibility that your kit is damaged, by typing 'y'es.  If you
do, don't blame me if something goes wrong.  I advise you to type 'n'o
and contact the author (<MAINTLOC>).

EOM
?X: Can't use $echo at this early stage
  echo $n "Continue? [n] $c" >&4
  read ans
  case "$ans" in
  y*)
   echo "Continuing..." >&4
   rm -f missing
   ;;
  *)
?X:
?X: Use kill and not exit, so that the trap gets executed to clean up
?X:
```

```
   echo "ABORTING..." >&4
   kill $$
   ;;
  esac
 else
  echo "Looks good..."
 fi
else
 echo "There is no MANIFEST file.  I hope your kit is complete !"
fi
rm -f missing x??

@end
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Chk_MANI.U
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```
?RCS: $Id: d_sgndchr.U,v 3.0.1.2 1997/02/28 15:44:25 ram Exp $
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_sgndchr.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:44:25  ram
?RCS: patch61: added a ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  14:00:24  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:16  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sgndchr: cat rm Compile Setvar run
?MAKE: -pick add $@ %<
?S:d_sgndchr:
?S: This variable conditionally defines the SIGNEDCHAR
 symbol, which
?S: indicates to the C program that signed characters are available.
?S:.
?C:SIGNEDCHAR:
?C: This symbol, if defined, indicates that characters are a signed type.
```

```
?C: If not defined, things declared as signed characters (and that make
?C: use of negative values) should probably be declared as shorts instead.
?C:.
?H:#$d_sgndchr SIGNEDCHAR /**/
?H:.
?F:!try
?LINT:set d_sgndchr
: check for signed chars
echo " "
echo "Checking to see if your C compiler can do signed chars..." >&4
$cat >try.c <<'EOCP'
int main()
{
 char c = 0;

 c--;
 exit(c >= 0);
}
EOCP
set try
if eval $compile && $run ./try; then
if $run ./try; then
 val="$define"
 echo "It certainly can."
else
 val="$undef"
 echo "It can't.  I'll have to make some things type short."
fi
set d_sgndchr
eval $setvar
$rm -f try*
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_sgndchr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_keepsig.U,v $
```

```
?RCS: Revision 3.0.1.4  1995/07/25  13:57:56  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:26:25  ram
?RCS: patch45: protected "sh -c" within backquotes for Linux and SGI
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:13:59  ram
?RCS: patch36: call ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.1  1993/10/16  13:48:47  ram
?RCS: patch12: comment for SIGNALS_KEPT was the other way round
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:06:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_keepsig: cat Compile rm Guess contains echo n c Setvar run
?MAKE: -pick add $@ %<
?S:d_keepsig:
?S: This variable contains the eventual value of the SIGNALS_KEPT symbol,
?S: which indicates to the C program if signal handlers need not reinstated
?S: after receipt of a signal.
?S:.
?C:SIGNALS_KEPT (PERSISTENT_SIGNAL):
?C: This symbol is defined if signal handlers needn't be reinstated after
?C: receipt of a signal.
?C:.
?H:#$d_keepsig SIGNALS_KEPT /**/
?H:.
?F:!try !try.out
?LINT:set d_keepsig
: see if signals are kept
val="$undef";
echo " "
echo "Checking to see if signal handlers stick around..." >&4
$cat >try.c <<'EOCP'
foo() {}

int main()
{
 signal(2, foo);
 kill(getpid(), 2);
 kill(getpid(), 2);
 printf("abc\n");
}
EOCP
set try
if eval $compile_ok; then
```

```
?X: On AIX a single ./try will not work (with ksh)
?X: Backquotes required on Linux and SGI (prevents "ambiguous output redirect")
?X:
 (reported by Xavier LeVourch <xavierl@eiffel.com>)
 `sh -c $run ./try >try.out 2>/dev/null`
 if $contains abc try.out >/dev/null 2>&1; then
  echo "Yes, they do."
  val="$define";
 else
  echo "No, they don't."
 fi
else
 $echo $n "(I can't seem to compile the test program. Assuming $c"
 if ./bsd; then
  echo "they do.)"
  val="$define"
 else
  echo "they don't.)"
 fi
fi
set d_keepsig
eval $setvar
$rm -f try*
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_keepsig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setpgrp.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:44:16  ram
?RCS: patch61: obsoleted USE_BSDGRP in favor of USE_BSD_SETPGRP
?RCS: patch61: another unit now also defines a USE_BSD_GETPGRP
?RCS: patch61: fallback for test program failure improved
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  13:59:30  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
```

```
?RCS: Revision 3.0.1.1  1994/10/29  16:15:37  ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
 patch36: call ./usg explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setpgrp d_bsdsetpgrp: cat rm +cc +libs +ccflags \
 +ldflags Inlibc Guess Setvar i_unistd
?MAKE: -pick add $@ %<
?S:d_setpgrp:
?S: This variable conditionally defines HAS_SETPGRP if setpgrp() is
?S: available to set the current process group.
?S:.
?S:d_bsdsetpgrp (d_bsdpgrp):
?S: This variable conditionally defines USE_BSD_SETPGRP if
?S: setpgrp needs two arguments whereas USG one needs none.
?S: See also d_setpgid for a POSIX interface.
?S:.
?C:HAS_SETPGRP (SETPGRP):
?C: This symbol, if defined, indicates that the setpgrp routine is
?C: available to set the current process group.
?C:.
?C:USE_BSD_SETPGRP (USE_BSDPGRP BSDPGRP):
?C: This symbol, if defined, indicates that setpgrp needs two
?C: arguments whereas USG one needs none.  See also HAS_SETPGID
?C: for a POSIX interface.
?C:.
?H:#$d_setpgrp HAS_SETPGRP  /**/
?H:#$d_bsdsetpgrp
 USE_BSD_SETPGRP /**/
?H:.
?F:!set.c !set
?T:xxx
?LINT:set d_setpgrp d_bsdsetpgrp
: see if setpgrp exists
set setpgrp d_setpgrp
eval $inlibc

@if USE_BSD_SETPGRP || d_bsdsetpgrp
case "$d_setpgrp" in
"$define")
 echo " "
 echo "Checking to see which flavor of setpgrp is in use..."
 $cat >set.c <<EOP
#$i_unistd I_UNISTD
#include <sys/types.h>
```

```
#ifdef I_UNISTD
#  include <unistd.h>
#endif
int main()
{
 if (getuid() == 0) {
  printf("(I see you are running Configure as super-user...)\n");
  setuid(1);
 }
#ifdef TRY_BSD_PGRP
 if (-1 == setpgrp(1, 1))
  exit(0);
#else
 if (setpgrp() != -1)
  exit(0);
#endif
 exit(1);
}
EOP
 if $cc -DTRY_BSD_PGRP $ccflags $ldflags -o set set.c $libs >/dev/null 2>&1 && ./set; then
  echo 'You have to use setpgrp(pid,pgrp) instead of setpgrp().' >&4
  val="$define"
 elif $cc $ccflags $ldflags -o set set.c $libs >/dev/null 2>&1 && ./set; then
  echo 'You have to use setpgrp() instead of setpgrp(pid,pgrp).' >&4
  val="$undef"
 else
  echo "(I can't
 seem to compile and run the test program.)"
  if ./usg; then
   xxx="a USG one, i.e. you use setpgrp()."
  else
   # SVR4 systems can appear rather BSD-ish.
   case "$i_unistd" in
   $undef)
    xxx="a BSD one, i.e. you use setpgrp(pid,pgrp)."
    val="$define"
    ;;
   $define)
    xxx="probably a USG one, i.e. you use setpgrp()."
    val="$undef"
    ;;
   esac
  fi
  echo "Assuming your setpgrp is $xxx" >&4
 fi
 ;;
*) val="$undef";;
esac
```

```
set d_bsdsetpgrp
eval $setvar
$rm -f set set.c
@end
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setpgrp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_memory.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_memory.U,v $
?RCS: Revision 3.0.1.3  1994/06/20  07:01:55  ram
?RCS: patch30: cosmetic changes
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:23:56  ram
?RCS: patch27: modified to avoid spurious Whoa warnings (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:02:25  ram
?RCS: patch23: avoid conflicts with <string.h>
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:22  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_memory: Inhdr strings cppstdin
 cppflags cppminus contains rm Setvar
?MAKE: -pick add $@ %<
?S:i_memory:
?S: This variable conditionally defines the I_MEMORY symbol, and indicates
?S: whether a C program should include <memory.h>.
?S:.
?C:I_MEMORY:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <memory.h>.
?C:.
?H:#$i_memory I_MEMORY  /**/
?H:.
?LINT:set i_memory
?X:
```

```
?X: Unfortunately, the definitions of memory functions sometimes
?X: conflict with those in <string.h>.  We'll assume that if
?X: <string.h> contains memcpy, then we don't need memory.h
?X:
: see if memory.h is available.
val=''
set memory.h val
eval $inhdr

: See if it conflicts with string.h
case "$val" in
$define)
 case "$strings" in
 '') ;;
 *)
  $cppstdin $cppflags $cppminus < $strings > mem.h
  if $contains 'memcpy' mem.h >/dev/null 2>&1; then
   echo " "
   echo "We won't be including <memory.h>."
   val="$undef"
  fi
  $rm -f mem.h
  ;;
 esac
esac
set i_memory
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_memory.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setpgrp2.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setpgrp2.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:10  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setpgrp2: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_setpgrp2:
?S: This variable conditionally defines the HAS_SETPGRP2 symbol, which
?S: indicates to the C program that the setpgrp2() (as in DG/UX) routine
?S: is available to set the current process group.
?S:.
?C:HAS_SETPGRP2 (SETPGRP2):
?C: This symbol, if defined, indicates that the
 setpgrp2() (as in DG/UX)
?C: routine is available to set the current process group.
?C:.
?H:#$d_setpgrp2 HAS_SETPGRP2  /**/
?H:.
?LINT:set d_setpgrp2
: see if setpgrp2 exists
set setpgrp2 d_setpgrp2
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setpgrp2.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_tzmin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_tzmin.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:16:58  ram
?RCS: patch36: call ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:49  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_tzmin: contains cppstdin cppminus timeincl rm Setvar Guess
?MAKE: -pick add $@ %<
?S:d_tzmin:
?S: This symbol conditionally defines TZ_MINUTESWEST if the system uses
?S: tz_minuteswest in time header instead of timezone.
?S:.
?C:TZ_MINUTESWEST:
?C: This
```

```
 symbol is defined if this system uses tz_minuteswest
?C: in time header instead of timezone.
?C: If not defined, you may have to use struct timeb and ftime() rather
?C: than the new gettimeofday() system call.
?C:.
?H:#$d_tzmin TZ_MINUTESWEST  /**/
?H:.
?LINT:set d_tzmin
: see if tz_minuteswest is defined in time header
echo " "
val="$undef"
$cppstdin $cppminus < $timeincl > try 2>&1
if $contains 'tz_minuteswest' try >/dev/null 2>&1; then
echo "You have tz_minuteswest defined in $timeincl rather than timezone." >&4
 val="$define"
elif $contains 'timezone' try >/dev/null 2>&1; then
echo "You have timezone defined in $timeincl rather than tz_minuteswest." >&4
else
 echo "Your $timeincl file looks strange." >&4
fi
if ./bsd; then
 case "$d_tzmin" in
 "$undef") echo "(Maybe your system is an USG one after all?)";;
 esac
fi
set d_tzmin
eval $setvar
$rm -f try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_tzmin.U
No license file was found, but licenses were detected in source scan.

```
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:gidsize: Myread Typedef gidtype Compile run i_stdlib
?MAKE: -pick add $@ %<
?S:gidsize:
?S: This variable contains the size of a gidtype in bytes.
?S:.
```

```
?C:Gid_t_size:
?C: This symbol holds the size of a Gid_t in bytes.
?C:.
?H:#define Gid_t_size $gidsize  /* GID size */
?H:.
?T:yyy zzz
?F:!try
: Check the size of GID
echo " "
case "$gidtype" in
*_t) zzz="$gidtype" ;;
*)   zzz="gid"  ;;
esac
echo "Checking the size of $zzz..." >&4
cat > try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include
 <stdlib.h>
#endif
int main() {
   printf("%d\n", (int)sizeof($gidtype));
   exit(0);
}
EOCP
set try
if eval $compile_ok; then
 yyy=`$run ./try`
 case "$yyy" in
 ") gidsize=4
  echo "(I can't execute the test program--guessing $gidsize.)" >&4
  ;;
 *) gidsize=$yyy
  echo "Your $zzz is $gidsize bytes long."
  ;;
 esac
else
 gidsize=4
 echo "(I can't compile the test program--guessing $gidsize.)" >&4
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/gidsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_nice.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_nice.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:09:48  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_nice: Inlibc
?MAKE: -pick add $@ %<
?S:d_nice:
?S: This variable conditionally defines the HAS_NICE symbol, which
?S: indicates to the C program that the nice() routine is available.
?S:.
?C:HAS_NICE :
?C: This symbol, if defined, indicates that the nice routine is
?C: available.
?C:.
?H:#$d_nice
 HAS_NICE  /**/
?H:.
?LINT:set d_nice
: see if nice exists
set nice d_nice
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_nice.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fcntl_can_lock.U,v$
?RCS:
?RCS: Copyright (c) 2000, Andrew Dougherty
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_fcntl_can_lock.U,v $
?RCS:
```

```
?MAKE:d_fcntl_can_lock: d_fcntl Compile Setvar cat rm_try run signal_t i_stdlib
?MAKE: -pick add $@ %<
?S:d_fcntl_can_lock:
?S: This variable conditionally defines the FCNTL_CAN_LOCK symbol
?S: and indicates whether file locking with fcntl() works.
?S:.
?C:FCNTL_CAN_LOCK:
?C: This symbol, if defined, indicates that fcntl() can be used
?C: for file locking.  Normally on Unix systems this is defined.
?C: It may be undefined on VMS.
?C:.
?H:#$d_fcntl_can_lock FCNTL_CAN_LOCK  /**/
?H:.
?F:!try
?LINT: set d_fcntl_can_lock
?X: fcntl may not be fully functional.  As of November 2000, on VMS and
?X: DOS/DJGPP, fctnl-based locking doesn't work.
?X: Thanks
 to Craig A. Berry <craig.berry@psinetcs.com> for this test.
: See if fcntl-based locking works.
echo " "
$cat >try.c <<EOCP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <unistd.h>
#include <fcntl.h>
#include <signal.h>
$signal_t blech(int x) { exit(3); }
int main() {
#if defined(F_SETLK) && defined(F_SETLKW)
    struct flock flock;
    int retval, fd;
    fd = open("try.c", O_RDONLY);
    flock.l_type = F_RDLCK;
    flock.l_whence = SEEK_SET;
    flock.l_start = flock.l_len = 0;
    signal(SIGALRM, blech);
    alarm(10);
    retval = fcntl(fd, F_SETLK, &flock);
    close(fd);
    (retval < 0 ? exit(2) : exit(0));
#else
    exit(2);
#endif
}
EOCP
```

```
echo "Checking if fcntl-based file locking works... "
case "$d_fcntl" in
"$define")
 set try
 if eval $compile_ok; then
  if $run ./try; then
   echo "Yes, it seems to work."
   val="$define"
  else
   echo "Nope, it didn't work."
   val="$undef"
   case "$?" in
   3) $cat >&4 <<EOM
***
*** I had to
 forcibly timeout from fcntl(..., F_SETLK, ...).
*** This is (almost) impossible.
*** If your NFS lock daemons are not feeling well, something like
*** this may happen, please investigate.  Cannot continue, aborting.
***
EOM
    exit 1
    ;;
   esac
  fi
 else
  echo "I'm unable to compile the test program, so I'll assume not."
  val="$undef"
 fi
 ;;
*) val="$undef";
 echo "Nope, since you don't even have fcntl()."
 ;;
esac
set d_fcntl_can_lock
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fcntl_can_lock.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_neterrno.U,v 3.0.1.3 1994/10/29 16:20:29 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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```

```
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_neterrno.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:20:29  ram
?RCS: patch36: forgot to initialize 'val' to an empty value (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:22:10  ram
?RCS: patch32: removed spurious echo
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:02:05  ram
?RCS: patch30: created by ADO
?RCS:
?MAKE:i_neterrno: Inhdr +cc +ccflags rm_try Setvar
?MAKE: -pick
 add $@ %<
?S:i_neterrno:
?S: This variable conditionally defines the I_NET_ERRNO symbol, which
?S: indicates to the C program that <net/errno.h> exists and should
?S: be included.
?S:.
?C:I_NET_ERRNO:
?C: This symbol, if defined, indicates that <net/errno.h> exists and
?C: should be included.
?C:.
?H:#$i_neterrno I_NET_ERRNO  /**/
?H:.
?LINT:set i_neterrno
: see if net/errno.h is available
val=''
set net/errno.h val
eval $inhdr

: Unfortunately, it causes problems on some systems.  Arrgh.
case "$val" in
$define)
 cat > try.c <<'EOM'
#include <stdio.h>
#include <errno.h>
#include <net/errno.h>
int func()
{
 return ENOTSOCK;
}
```

```
EOM
 if $cc $ccflags -c try.c >/dev/null 2>&1; then
  echo "We'll be including <net/errno.h>." >&4
 else
  echo "We won't be including <net/errno.h>." >&4
  val="$undef"
 fi
 $rm_try
 ;;
esac
set i_neterrno
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_neterrno.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_syslog.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_syslog: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_syslog:
?S: This variable conditionally defines the I_SYSLOG symbol,
?S: and indicates whether a C program should include <syslog.h>.
?S:.
?C:I_SYSLOG:
?C: This symbol, if defined, indicates that <syslog.h> exists and
?C: should be included.
?C:.
?H:#$i_syslog I_SYSLOG  /**/
?H:.
?LINT:set i_syslog
: see if this is a syslog.h system
set syslog.h i_syslog
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_syslog.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_sockatmarkproto: Hasproto d_socket
?MAKE: -pick add $@ %<
?S:d_sockatmarkproto:
?S: This variable conditionally defines the HAS_SOCKATMARK_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the sockatmark() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_SOCKATMARK_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the sockatmark() function.  Otherwise, it is up
?C: to the program to supply one.  A good
 guess is
?C:  extern int sockatmark(int);
?C:.
?H:#$d_sockatmarkproto HAS_SOCKATMARK_PROTO /**/
?H:.
?LINT:set d_sockatmarkproto
: see if prototype for sockatmark is available
echo " "
set d_sockatmarkproto sockatmark $d_socket sys/socket.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_sockatmarkproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2003, Jarkko Hietaniemi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_pthread_attr_setscope: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_pthread_attr_setscope:
?S: This variable conditionally defines HAS_PTHREAD_ATTR_SETSCOPE if
?S: pthread_attr_setscope() is available to set the contention scope
?S: attribute of a thread attribute object.
?S:.
?C:HAS_PTHREAD_ATTR_SETSCOPE:
?C: This symbol, if defined, indicates that the pthread_attr_setscope
?C: system call is available to set the contention scope attribute of
?C: a thread attribute object.
?C:.
?H:#$d_pthread_attr_setscope HAS_PTHREAD_ATTR_SETSCOPE  /**/
?H:.
?LINT:set
 d_pthread_attr_setscope
: see if pthread_attr_setscope exists
set pthread_attr_setscope d_pthread_attr_setscope
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_pthread_attr_ss.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Getfile.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Getfile.U,v $
?RCS: Revision 3.0.1.7  1997/02/28  15:01:06  ram
?RCS: patch61: getfile script now begins with "startsh"
?RCS:
?RCS: Revision 3.0.1.6  1995/02/15  14:11:00  ram
?RCS: patch51: was not working if ~'s allowed with d_portable on (WED)
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:11:25  ram
?RCS: patch45: added support for escaping answers to skip various checks
?RCS: patch45: modified message issued after file expansion
?RCS:
?RCS: Revision
 3.0.1.4  1994/10/29  15:53:19  ram
?RCS: patch36: added ?F: line for metalint file checking
```

```
?RCS:
?RCS: Revision 3.0.1.3  1994/05/06  14:23:36  ram
?RCS: patch23: getfile could be confused by file name in "locate" requests
?RCS: patch23: new 'p' directive to assume file is in people's path (WED)
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:01:31  ram
?RCS: patch16: added metalint hint on changed 'ans' variable
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  15:46:27  ram
?RCS: patch10: minor format problems and misspellings fixed
?RCS: patch10: now performs from package dir and not from UU subdir
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to get a file name and make some sanity checks. Optionally, a ~name
?X: expansion is performed.
?X:
?X: To use this unit, $rp and $dflt must hold the question and the
?X: default answer, which will be passed as-is
 to the myread script.
?X: The $fn variable must hold the file type (f or d, for file/directory).
?X: If $gfpth is set to a list of space-separated list of directories,
?X: those are prefixes for the filename.  Unless $gfpthkeep is set to 'y',
?X: gfpth is cleared on return from Getfile.
?X:
?X: If it is followed by a ~, then ~name substitution will occur. Upon return,
?X: $ans is set with the filename value. If a / is specified, then only a full
?X: path name is accepted (but ~ substitution occurs before, if needed). The
?X: expanded path name is returned in that case.
?X:
?X: If a + is specified, the existence checks are skipped. This usually means
?X: the file/directory is under the full control of the program.
?X:
?X: If the 'n' (none) type is used, then the user may answer none.
?X: The 'e' (expand) switch may be used to bypass d_portable, expanding ~name.
?X:
?X: If the 'l' (locate) type is used, then it must end with a ':' and then a
?X: file name. If the answer is a directory,
 the file name will be appended
?X: before testing for file existence. This is useful in locate-style
?X: questions like "where is the active file?". In that case, one should
?X: use:
?X:
?X:   dflt='~news/lib'
?X:   fn='l~:active'
```

```
?X:   rp='Where is the active file?'
?X:   . ./getfile
?X:   active="$ans"
?X:
?X: If the 'p' (path) letter is specified along with 'l', then an answer
?X: without a leading / will be expected to be found in everyone's path.
?X:
?X: It is also possible to include a comma-separated list of items within
?X: parentheses to specify which items should be accepted as-is with no
?X: further checks. This is useful when for instance a full path is expected
?X: but the user may escape out via "magical" answers.
?X:
?X: If the answer to the question is 'none', then the existence checks are
?X: skipped and the empty string is returned.
?X:
?MAKE:Getfile: d_portable contains startsh Myread Filexp tr trnl
?MAKE: -pick add $@ %<
?V:ansexp:fn gfpth gfpthkeep
?F:./getfile
?T:tilde
 type what orig_rp orig_dflt fullpath already redo skip none_ok \
 value exp_file nopath_ok loc_file fp pf dir direxp
?LINT:change ans
?LINT:change gfpth
: now set up to get a file name
cat <<EOS >getfile
$startsh
EOS
cat <<'EOSC' >>getfile
tilde=''
fullpath=''
already=''
skip=''
none_ok=''
exp_file=''
nopath_ok=''
orig_rp="$rp"
orig_dflt="$dflt"
case "$gfpth" in
'') gfpth='.' ;;
esac

?X: Begin by stripping out any (...) grouping.
case "$fn" in
*\(*)
 : getfile will accept an answer from the comma-separated list
 : enclosed in parentheses even if it does not meet other criteria.
 expr "$fn" : '.*(\(.*\)).*' | $tr ',' $trnl >getfile.ok
```

```
 fn=`echo $fn | sed 's/(.*)//'`
 ;;
esac

?X: Catch up 'locate' requests early, so that we may strip the file name
?X: before looking at the one-letter commands, in case the file name contains
?X: one of them. Reported by Wayne Davison <davison@borland.com>.
case "$fn" in
*:*)
 loc_file=`expr $fn : '.*:\(.*\)'`
 fn=`expr $fn : '\(.*\):.*'`
 ;;
esac

case
 "$fn" in
*~*) tilde=true;;
esac
case "$fn" in
*/*) fullpath=true;;
esac
case "$fn" in
*+*) skip=true;;
esac
case "$fn" in
*n*) none_ok=true;;
esac
case "$fn" in
*e*) exp_file=true;;
esac
case "$fn" in
*p*) nopath_ok=true;;
esac

case "$fn" in
*f*) type='File';;
*d*) type='Directory';;
*l*) type='Locate';;
esac

what="$type"
case "$what" in
Locate) what='File';;
esac

case "$exp_file" in
")
 case "$d_portable" in
```

```
 "$define") ;;
 *) exp_file=true;;
 esac
 ;;
esac

cd ..
while test "$type"; do
 redo=''
 rp="$orig_rp"
 dflt="$orig_dflt"
 case "$tilde" in
 true) rp="$rp (~name ok)";;
 esac
 . UU/myread
?X: check for allowed escape sequence which may be accepted verbatim.
 if test -f UU/getfile.ok && \
  $contains "^$ans\$" UU/getfile.ok >/dev/null 2>&1
 then
  value="$ans"
  ansexp="$ans"
  break
 fi
 case "$ans" in
 none)
  value=''
  ansexp=''
  case "$none_ok" in
  true) type='';;
  esac
  ;;
 *)
  case "$tilde" in
  '') value="$ans"
   ansexp="$ans";;
  *)
   value=`UU/filexp $ans`
   case
 $? in
   0)
    if test "$ans" != "$value"; then
     echo "(That expands to $value on this system.)"
    fi
    ;;
   *) value="$ans";;
   esac
   ansexp="$value"
   case "$exp_file" in
```

```
  ") value="$ans";;
  esac
  ;;
 esac
 case "$fullpath" in
 true)
?X: Perform all the checks on ansexp and not value since when d_portable
?X: is defined, the original un-expanded answer which is stored in value
?X: would lead to "non-existent" error messages whilst ansexp has been
?X: properly expanded. -- Fixed by Jan.Djarv@sa.erisoft.se (Jan Djarv)
?X: Always expand ~user if '/' was requested
  case "$ansexp" in
  /*) value="$ansexp" ;;
?X: Allow for c:/some/path
  [a-zA-Z]:/*) value="$ansexp" ;;
  *)
   redo=true
   case "$already" in
   true)
   echo "I shall only accept a full path name, as in /bin/ls." >&4
   echo "Use a ! shell escape if you wish to check pathnames." >&4
    ;;
   *)
   echo "Please give a full path name, starting with slash." >&4
    case "$tilde"
in
    true)
   echo "Note that using ~name is ok provided it expands well." >&4
     already=true
     ;;
    esac
   esac
   ;;
  esac
  ;;
 esac
 case "$redo" in
 ")
  case "$type" in
  File)
   for fp in $gfpth; do
    if test "X$fp" = X.; then
        pf="$ansexp"
    else
        pf="$fp/$ansexp"
    fi
    if test -f "$pf"; then
     type="
```

```
    elif test -r "$pf" || (test -h "$pf") >/dev/null 2>&1
    then
     echo "($value is not a plain file, but that's ok.)"
     type=''
    fi
    if test X"$type" = X; then
        value="$pf"
        break
    fi
   done
   ;;
  Directory)
   for fp in $gfpth; do
    if test "X$fp" = X.; then
        dir="$ans"
        direxp="$ansexp"
    else
        dir="$fp/$ansexp"
        direxp="$fp/$ansexp"
    fi
    if test -d "$direxp"; then
     type=''
     value="$dir"
     break
    fi
   done
   ;;
  Locate)
   if test -d "$ansexp"; then
    echo "(Looking for $loc_file in directory
$value.)"
    value="$value/$loc_file"
    ansexp="$ansexp/$loc_file"
   fi
   if test -f "$ansexp"; then
    type=''
   fi
   case "$nopath_ok" in
   true) case "$value" in
    */*) ;;
    *) echo "Assuming $value will be in people's path."
     type=''
     ;;
    esac
    ;;
   esac
   ;;
  esac
```

```
   case "$skip" in
   true) type=";
   esac

   case "$type" in
   ") ;;
   *)
    if test "$fastread" = yes; then
     dflt=y
    else
     dflt=n
    fi
    rp="$what $value doesn't exist.  Use that name anyway?"
    . UU/myread
    dflt="
    case "$ans" in
    y*) type=";;
    *) echo " ";;
    esac
    ;;
   esac
   ;;
  esac
  ;;
 esac
done
cd UU
ans="$value"
rp="$orig_rp"
dflt="$orig_dflt"
rm -f getfile.ok
test "X$gfpthkeep" != Xy && gfpth=""
EOSC
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Getfile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getnent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_getnent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getnent: Inlibc
?MAKE: -pick add $@ %<
?S:d_getnent:
?S: This variable conditionally defines HAS_GETNETENT if getnetent() is
?S: available to look up network names in some data base or another.
?S:.
?C:HAS_GETNETENT:
?C: This symbol, if defined, indicates that the getnetent() routine is
?C: available to look up network names in some data base
 or another.
?C:.
?H:#$d_getnent HAS_GETNETENT  /**/
?H:.
?LINT:set d_getnent
: see if getnetent exists
set getnetent d_getnent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_getnent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: fpostype.U,v 3.0.1.2 1994/08/29 16:20:52 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: fpostype.U,v $
?RCS: Revision 3.0.1.2  1994/08/29  16:20:52  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:59:59  ram
?RCS: patch30: created
?RCS:
?MAKE:fpostype: Myread Typedef
?MAKE: -pick add $@ %<
```

```
?S:fpostype:
?S: This variable defines Fpos_t to be something like fpos_t, long,
?S: uint, or whatever type is used to declare file positions in libc.
?S:.
?C:Fpos_t:
?C: This symbol holds
 the type used to declare file positions in libc.
?C: It can be fpos_t, long, uint, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Fpos_t $fpostype  /* File position type */
?H:.
?LINT:set fpostype
: see what type file positions are declared as in the library
rp="What is the type for file position used by fsetpos()?"
set fpos_t fpostype long stdio.h sys/types.h
eval $typedef_ask
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/fpostype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_raster.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_raster.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_raster rasterlib: cat test Setvar Myread Oldconfig
?MAKE: -pick add $@ %<
?S:d_raster:
?S: Conditionally defines RASTER_TEK if this is a raster tech machine.
?S:.
?S:rasterlib (d_rasterlib):
?S: Set to the needed compile flag if this is a raster tech machine.
?S: It is up to the Makefile to use this variable.
?S:.
?C:RASTER_TEK:
?C: Defined
```

```
 if this is a rastertech machine.
?C:.
?H:#$d_raster RASTER_TEK /**/
?H:.
?LINT:set d_raster
: See if this is a raster tech machine.
val="$undef"
rasterlib="
if $test -r /dev/mirage; then
 $cat <<'EOM'

You seem to have a mirage device... this is normally associated with a raster
technologies graphics workstation. If this is right, you may want to use raster
tech in this program.

EOM
 dflt=y
 case "$d_raster" in
 "$undef") dflt=n;;
 esac
 rp='Use raster tech?'
 . ./myread
 case "$ans" in
 y*) val="$define";;
 esac
fi
set d_raster
eval $setvar

case "$d_raster" in
"$define") rasterlib='-lphigs';;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_raster.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Warn_v7ND.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: Warn_v7ND.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:01:46  ram
?RCS: patch36: call ./v7 explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:18  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit warns V7 sites that they may not have a non-blocking read.
?X: This unit needs to be mentioned in End.U to get included.
?X:
?MAKE:Warn_v7ND: package Guess
?MAKE: -pick add $@ %<
: Warnings
if ./v7; then
 cat
 <<EOM

NOTE: many V7 systems do not have a way to do a non-blocking read.  If you
don't have any of FIONREAD, O_NDELAY, or rdchk(), the $package package
may not work as well as it might.  It might not work at all.
EOM
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Warn_v7ND.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_readv: Inlibc
?MAKE: -pick add $@ %<
?S:d_readv:
?S: This variable conditionally defines the HAS_READV symbol, which
?S: indicates to the C program that the readv() routine is available.
?S:.
?C:HAS_READV:
?C: This symbol, if defined, indicates that the readv routine is
?C: available to do gather reads.  You will also need <sys/uio.h>
?C: and there I_SYSUIO.
?C:.
?H:#$d_readv HAS_READV  /**/
```

```
?H:.
?LINT:set d_readv
: see if readv exists
set readv d_readv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_readv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: archname.U,v 3.0.1.3 1997/02/28 15:24:32 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: archname.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:24:32  ram
?RCS: patch61: changed the way the archname is mangled from uname
?RCS:
?RCS: Revision 3.0.1.2  1995/05/12  12:05:24  ram
?RCS: patch54: protect against spaces in "uname -m" output (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1995/02/15  14:14:21  ram
?RCS: patch51: created
?RCS:
?MAKE:archname myarchname useversionedarchname: sed Loc Myread Oldconfig \
 osname test rm usethreads usemultiplicity use64bitint
 use64bitall \
 archname64 uselongdouble longdblsize doublesize targetarch Setvar \
 api_versionstring usequadmath
?MAKE: -pick add $@ %<
?S:archname:
?S: This variable is a short name to characterize the current
?S: architecture.  It is used mainly to construct the default archlib.
?S:.
?S:myarchname:
?S: This variable holds the architecture name computed by Configure in
?S: a previous run. It is not intended to be perused by any user and
?S: should never be set in a hint file.
?S:.
?S:useversionedarchname:
?S: This variable indicates whether to include the $api_versionstring
```

```
?S: as a component of the $archname.
?S:.
?C:ARCHNAME:
?C: This symbol holds a string representing the architecture name.
?C: It may be used to construct an architecture-dependant pathname
?C: where library files may be held under a private library, for
?C: instance.
?C:.
?H:#define ARCHNAME "$archname"  /**/
?H:.
?T:xxx tarch
?F:!archname.cbu
?INIT:archname=''
: determine the architecture name
echo " "
?X:
 We always recompute archname in case osname changes. However, we need
?X: to be careful since, as ADO rightfully pointed out, some systems pick
?X: silly architecture names (0001307135000-aix on AIX or 9000/715-ux under
?X: HP-UX). Therefore, we allow hint files to superseed our guess and ask
?X: the user for confirmation.
if xxx=`./loc arch blurfl $pth`; $test -f "$xxx"; then
 tarch=`arch`"-$osname"
elif xxx=`./loc uname blurfl $pth`; $test -f "$xxx" ; then
 if uname -m > tmparch 2>&1 ; then
  tarch=`$sed -e 's/ *$//' -e 's/ /_/g' \
   -e 's/$/'"-$osname/" tmparch`
 else
  tarch="$osname"
 fi
 $rm -f tmparch
else
 tarch="$osname"
fi
case "$myarchname" in
''|"$tarch") ;;
*)
 echo "(Your architecture name used to be $myarchname.)"
 archname=''
 ;;
esac
case "$targetarch" in
'') ;;
?X: Very GCCian.
*)  archname=`echo $targetarch|sed 's,^[^-]*-,,'` ;;
esac
myarchname="$tarch"
case "$archname" in
```

```
") dflt="$tarch";;
*) dflt="$archname";;
esac
rp='What is your architecture name'
. ./myread
archname="$ans"

:
 optionally add API version to the architecture for versioned archlibs
case "$useversionedarchname" in
$define|true|[yY]*) dflt='y';;
*)                  dflt='n';;
esac
rp='Add the Perl API version to your archname?'
. ./myread
case "$ans" in
y|Y) useversionedarchname="$define" ;;
*)      useversionedarchname="$undef" ;;
esac
case "$useversionedarchname" in
$define)
 case "$archname" in
 *-$api_versionstring)
  echo "...and architecture name already has -$api_versionstring" >&4
  ;;
 *)
  archname="$archname-$api_versionstring"
  echo "...setting architecture name to $archname." >&4
  ;;
 esac
 ;;
esac

@if usethreads
case "$usethreads" in
$define)
 echo "Threads selected." >&4
 case "$archname" in
 *-thread*) echo "...and architecture name already has -thread." >&4
  ;;
 *)      archname="$archname-thread"
  echo "...setting architecture name to $archname." >&4
  ;;
 esac
 ;;
esac
@end
@if usemultiplicity
```

```
case "$usemultiplicity" in
$define)
 echo "Multiplicity selected."
 >&4
 case "$archname" in
 *-multi*) echo "...and architecture name already has -multi." >&4
  ;;
 *)      archname="$archname-multi"
  echo "...setting architecture name to $archname." >&4
  ;;
 esac
 ;;
esac
@end
@if use64bitint
case "$use64bitint$use64bitall" in
*"$define"*)
 case "$archname64" in
 ")
  echo "This architecture is naturally 64-bit, not changing architecture name." >&4
  ;;
 *)
  case "$use64bitint" in
  "$define") echo "64 bit integers selected." >&4 ;;
  esac
  case "$use64bitall" in
  "$define") echo "Maximal 64 bitness selected." >&4 ;;
  esac
  case "$archname" in
  *-$archname64*) echo "...and architecture name already has $archname64." >&4
   ;;
  *)      archname="$archname-$archname64"
   echo "...setting architecture name to $archname." >&4
   ;;
  esac
  ;;
 esac
esac
@end
@if uselongdouble
case "$uselongdouble" in
$define)
 echo "Long doubles selected." >&4
 case "$longdblsize" in
 $doublesize)
  echo "...but long doubles are equal to doubles, not
 changing architecture name." >&4
  ;;
```

```
 *)
  case "$archname" in
  *-ld*) echo "...and architecture name already has -ld." >&4
   ;;
  *)      archname="$archname-ld"
   echo "...setting architecture name to $archname." >&4
   ;;
  esac
  ;;
 esac
 ;;
esac
@end
@if usequadmath
case "$usequadmath" in
$define)
 echo "quadmath selected." >&4
 case "$archname" in
 *-quadmath*) echo "...and architecture name already has -quadmath." >&4
  ;;
 *)      archname="$archname-quadmath"
  echo "...setting architecture name to $archname." >&4
  ;;
 esac
 ;;
esac
@end
if $test -f archname.cbu; then
 echo "Your platform has some specific hints for architecture name, using them..."
 . ./archname.cbu
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/archname.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Setvar.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Setvar.U,v $
```

```
?RCS: Revision 3.0.1.1  1994/10/29  15:58:28  ram
?RCS: patch36: call ./whoa explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:16  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a variable that is intended to be eval'ed in
?X: order to define/undefine a symbol. A consistency check is made
?X: regarding any previous value and a warning is issued if there
?X: is any discrepancy.
?X:
?X:
 To use it, say:
?X: val=<value>
?X: set d_variable
?X: eval $setvar
?X:
?MAKE:Setvar: Whoa
?MAKE: -pick add $@ %<
?LINT:define setvar
?S:setvar:
?S: This shell variable is used internally by Configure to set a value
?S: to a given symbol that is defined or not. A typical use is:
?S: val=<value computed>
?S:  set d_variable
?S:  eval $setvar
?S: That will print a message in case the $val value is not the same
?S: as the previous value of $d_variable.
?S:.
?V:setvar:val
?T:var was td tu
: function used to set '$1' to '$val'
setvar='var=$1; eval "was=\$$1"; td=$define; tu=$undef;
case "$val$was" in
$define$undef) . ./whoa; eval "$var=\$td";;
$undef$define) . ./whoa; eval "$var=\$tu";;
*) eval "$var=$val";;
esac'
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Setvar.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
```

```
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtold_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtold_l:
?S: This variable conditionally defines the HAS_STRTOLD_L symbol, which
?S: indicates to the C program that the strtold_l() routine is available.
?S:.
?C:HAS_STRTOLD_L:
?C: This symbol, if defined, indicates that the strtold_l routine is
?C: available to convert strings to long doubles.
?C:.
?H:#$d_strtold_l HAS_STRTOLD_L  /**/
?H:.
?LINT:set d_strtold_l
: see if strtold_l exists
set strtold_l d_strtold_l
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_strtold_l.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_modfl d_modflproto: Inlibc Compile Hasproto cat \
 test ccflags uselongdouble \
 d_sqrtl d_aintl d_copysignl d_ilogbl d_scalbnl d_frexpl d_ldexpl \
 d_truncl
?MAKE: -pick add $@ %<
?S:d_modfl:
?S: This variable conditionally defines the HAS_MODFL symbol, which
?S: indicates to the C program that the modfl() routine is available.
?S:.
?S:d_modflproto:
?S: This symbol, if defined, indicates that the system provides
?S: a prototype for the modfl() function.  Otherwise, it is up
?S: to the program to supply one.  C99 says it should be
?S:  long double modfl(long double, long double *);
?S:.
```

```
?C:HAS_MODFL:
?C: This symbol, if defined, indicates that the modfl routine is
?C: available to split a long double
 x into a fractional part f and
?C: an integer part i such that |f| < 1.0 and (f + i) = x.
?C:.
?C:HAS_MODFL_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the modfl() function.  Otherwise, it is up
?C: to the program to supply one.
?C:.
?H:#$d_modfl HAS_MODFL  /**/
?H:#$d_modflproto HAS_MODFL_PROTO  /**/
?H:.
?T:message
?LINT:set d_modfl
?LINT:set d_modflproto
?LINT:change ccflags
: see if modfl exists
set modfl d_modfl
eval $inlibc

: see if prototype for modfl is available
echo " "
set d_modflproto modfl define math.h
eval $hasproto

if $test "$uselongdouble" = "$define"; then
   message=""
   if $test "$d_sqrtl" != "$define"; then
 message="$message sqrtl"
   fi
   if $test "$d_modfl" != "$define"; then
 if $test "$d_truncl:$d_copysignl" = "$define:$define"; then
     echo "You have both truncl and copysignl, so I can emulate modfl."
 else
     if $test "$d_aintl:$d_copysignl" = "$define:$define"; then
  echo "You have both aintl
 and copysignl, so I can emulate modfl."
     else
  message="$message modfl"
     fi
 fi
   fi
   if $test "$d_frexpl" != "$define"; then
 if $test "$d_ilogbl:$d_scalbnl" = "$define:$define"; then
     echo "You have both ilogbl and scalbnl, so I can emulate frexpl."
 else
```

```
    message="$message frexpl"
 fi
   fi
   if $test "$d_ldexpl" != "$define"; then
 message="$message ldexpl"
   fi

   if $test "$message" != ""; then
 $cat <<EOM >&4

*** You requested the use of long doubles but you do not seem to have
*** the following mathematical functions needed for long double support:
***    $message
*** Please rerun Configure without -Duselongdouble and/or -Dusemorebits.
*** Cannot continue, aborting.

EOM

 exit 1
   fi
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_modfl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sigsetmk.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sigsetmk.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:23  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sigsetmk: Csym Setvar
?MAKE: -pick add $@ %<
?S:d_sigsetmk:
?S: This variable conditionally defines the HAS_SIGSETMASK symbol, which
?S: indicates to the C program that the sigsetmask() routine is available
?S: to set current signal mask.
?S:.
```

```
?C:HAS_SIGSETMASK (SIGSETMASK):
?C: This symbol, if defined, indicates that the sigsetmask()
 routine is
?C: available to set current signal mask. Otherwise, you should probably
?C: emulate this by using signal(), but fear race conditions...
?C:.
?H:#$d_sigsetmk HAS_SIGSETMASK  /**/
?H:.
?LINT:set d_sigsetmk
: see if sigsetmask exists
echo " "
if set sigsetmask val -f d_sigsetmk; eval $csym; $val; then
 echo 'sigsetmask() found.' >&4
 val="$define"
else
 echo "sigsetmask() not found -- We'll use signal()." >&4
 val="$undef"
fi
set d_sigsetmk
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sigsetmk.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: man1dir.U,v 3.2 1999/07/08 20:57:21 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1996, 1999 Andy Dougherty
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: man1dir.U,v $
?RCS: Revision 3.2  1999/07/08 20:57:21  doughera
?RCS: Used installprefix.
?RCS:
?RCS: Revision 3.1  1999/07/08 20:52:19  doughera
?RCS: Updated for perl5.005_5x
?RCS:
?RCS: Revision 3.0.1.1  1997/02/28  16:10:29  ram
?RCS: patch61: created
?RCS:
?X: This was originally specific to perl5.  Since perl5 has man pages that
```

```
?X: go in both man1/ and man3/ directories, we need both man1dir
?X: and
 man3dir.  This unit is basically dist's mansrc.U with
?X: man1 used instead of man everywhere.
?X:
?MAKE:man1dir man1direxp man1ext installman1dir: cat nroff Loc Oldconfig \
 spackage test Getfile Setprefixvar Prefixit Prefixup sysman Myread \
 prefixexp
?MAKE: -pick add $@ %<
?Y:TOP
?D:man1dir=''
?S:man1dir:
?S: This variable contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?D:man1direxp=''
?S:man1direxp:
?S: This variable is the same as the man1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installman1dir=''
?S:installman1dir:
?S: This variable is really the same as man1direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man1direxp only points to the read-only access location.
 For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:man1ext:
?S: This variable contains the extension that the manual page should
?S: have: one of 'n', 'l', or '1'.  The Makefile must supply the '.'.
?S: See man1dir.
?S:.
?T:lookpath
?LINT:change prefixvar
?LINT:set man1direxp
: determine where manual pages go
set man1dir man1dir none
eval $prefixit
$cat <<EOM

$spackage has manual pages available in source form.
EOM
case "$nroff" in
nroff)
 echo "However, you don't have nroff, so they're probably useless to you."
```

```
 case "$man1dir" in
 ") man1dir="none";;
 esac;;
esac
echo "If you don't want the manual sources installed, answer 'none'."
case "$man1dir" in
' ') dflt=none
 ;;
")
 lookpath="$prefixexp/share/man/man1"
 lookpath="$lookpath $prefixexp/man/man1 $prefixexp/man/l_man/man1"
 lookpath="$lookpath $prefixexp/man/p_man/man1"
 lookpath="$lookpath $prefixexp/man/u_man/man1"
 lookpath="$lookpath $prefixexp/man/man.1"
?X: Experience has shown people
 expect man1dir to be under prefix,
?X: so we now always put it there.  Users who want other behavior
?X: can answer interactively or use a command line option.
?X: Does user have System V-style man paths.
 case "$sysman" in
 */?_man*) dflt=`./loc . $prefixexp/l_man/man1 $lookpath` ;;
 *) dflt=`./loc . $prefixexp/man/man1 $lookpath` ;;
 esac
 set dflt
 eval $prefixup
 ;;
*)  dflt="$man1dir"
 ;;
esac
echo " "
fn=dn+~
rp="Where do the main $spackage manual pages (source) go?"
. ./getfile
if $test "X$man1direxp" != "X$ansexp"; then
 installman1dir="
fi
prefixvar=man1dir
. ./setprefixvar

case "$man1dir" in
") man1dir=' '
 installman1dir=";;
esac

: What suffix to use on installed man pages

case "$man1dir" in
' ')
```

```
 man1ext='0'
 ;;
*)
 rp="What suffix should be used for the main $spackage man pages?"
 case "$man1ext" in
 ") case "$man1dir" in
  *1)  dflt=1 ;;
  *1p) dflt=1p ;;
  *1pm) dflt=1pm ;;
  *l) dflt=l;;
  *n) dflt=n;;
  *o) dflt=o;;
  *p) dflt=p;;
  *C) dflt=C;;
  *L) dflt=L;;
  *L1)
 dflt=L1;;
  *) dflt=1;;
  esac
  ;;
 *) dflt="$man1ext";;
 esac
 . ./myread
 man1ext="$ans"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/man1dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_atoll: Inlibc
?MAKE: -pick add $@ %<
?S:d_atoll:
?S: This variable conditionally defines the HAS_ATOLL symbol, which
?S: indicates to the C program that the atoll() routine is available.
?S:.
?C:HAS_ATOLL:
?C: This symbol, if defined, indicates that the atoll routine is
?C: available to convert strings into long longs.
```

```
?C:.
?H:#$d_atoll HAS_ATOLL  /**/
?H:.
?LINT:set d_atoll
: see if atoll exists
set atoll d_atoll
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/atoll.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_utime.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_utime.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_utime: Inhdr
?MAKE: -pick add $@ %<
?S:i_utime:
?S: This variable conditionally defines the I_UTIME symbol, and indicates
?S: whether a C program should include <utime.h>.
?S:.
?C:I_UTIME:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <utime.h>.
?C:.
?H:#$i_utime I_UTIME  /**/
?H:.
?LINT:set i_utime
:
 see if this is an utime system
set utime.h i_utime
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_utime.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: maildir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: maildir.U,v $
?RCS: Revision 3.0.1.1  1993/12/15  08:21:56  ram
?RCS: patch15: now also looks under /var/mail for BSD/386
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:maildir maildirexp: Getfile Loc Oldconfig
?MAKE: -pick add $@ %<
?S:maildir:
?S: This variable contains the name of the directory in which mail is
?S: spooled. Programs using this variable must be prepared to deal with
?S: ~name
 substitutions.
?S:.
?S:maildirexp:
?S: This is the same as the maildir variable, but is filename expanded
?S: at configuration time, for programs not willing to deal with it at
?S: run-time.
?S:.
: determine where mail is spooled
case "$maildir" in
") dflt=`./loc . /usr/spool/mail /usr/spool/mail /usr/mail /var/mail`;;
*) dflt="$maildir";;
esac
echo " "
fn=d~
rp='Where is yet-to-be-read mail spooled?'
. ./getfile
maildir="$ans"
maildirexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/maildir.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: uidtype.U,v $
?RCS: Revision 3.0.1.3  1994/08/29  16:33:25  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20  07:09:36  ram
?RCS: patch30: comment for uidtype referred to the obsoleted symbol
?RCS:
?RCS: Revision 3.0.1.1  1994/05/13  15:28:27  ram
?RCS: patch27: made conform to its gidtype.U companion
?RCS: patch27: question now explicitly mentions getuid()
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:56  ram
?RCS: Baseline for dist
 3.0 netwide release.
?RCS:
?MAKE:uidtype: Myread Typedef Findhdr
?MAKE: -pick add $@ %<
?S:uidtype:
?S: This variable defines Uid_t to be something like uid_t, int,
?S: ushort, or whatever type is used to declare user ids in the kernel.
?S:.
?C:Uid_t (UIDTYPE):
?C: This symbol holds the type used to declare user ids in the kernel.
?C: It can be int, ushort, uid_t, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Uid_t $uidtype  /* UID type */
?H:.
?T:xxx
: see what type uids are declared as in the kernel
set uid_t uidtype xxx stdio.h sys/types.h
eval $typedef
case "$uidtype" in
xxx)
 xxx=`./findhdr sys/user.h`
 set `grep '_ruid;' "$xxx" 2>/dev/null` unsigned short
```

```
 case $1 in
 unsigned) dflt="$1 $2" ;;
 *) dflt="$1" ;;
 esac
 ;;
*) dflt="$uidtype";;
esac
echo " "
rp="What is the type for user ids returned by getuid()?"
. ./myread
uidtype="$ans"
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/uidtype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_semctl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_semctl.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_semctl: Inlibc
?MAKE: -pick add $@ %<
?S:d_semctl:
?S: This variable conditionally defines the HAS_SEMCTL symbol, which
?S: indicates to the C program that the semctl() routine is available.
?S:.
?C:HAS_SEMCTL:
?C: This symbol, if defined, indicates that the semctl() routine is
?C: available to perform semaphore control operations.
?C:.
?H:#$d_semctl
 HAS_SEMCTL /**/
?H:.
?LINT:set d_semctl
: see if semctl exists
set semctl d_semctl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_semctl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_drand48_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_drand48_r drand48_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_stdlib extern_C
?MAKE: -pick add $@ %<
?S:d_drand48_r:
?S: This variable conditionally defines the HAS_DRAND48_R symbol,
?S: which indicates to the C program that the drand48_r()
?S: routine is available.
?S:.
?S:drand48_r_proto:
?S: This variable encodes the prototype of drand48_r.
?S: It is zero if d_drand48_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_drand48_r
?S: is defined.
?S:.
?C:HAS_DRAND48_R:
?C: This symbol, if defined, indicates that the drand48_r routine
?C: is available to drand48 re-entrantly.
?C:.
?C:DRAND48_R_PROTO:
?C: This
 symbol encodes the prototype of drand48_r.
?C: It is zero if d_drand48_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_drand48_r
?C: is defined.
?C:.
?H:#$d_drand48_r HAS_DRAND48_R /**/
?H:#define DRAND48_R_PROTO $drand48_r_proto /**/
?H:.
?T:try hdrs d_drand48_r_proto
: see if drand48_r exists
set drand48_r d_drand48_r
eval $inlibc
case "$d_drand48_r" in
"$define")
```

```
 hdrs="$i_systypes sys/types.h define stdio.h $i_stdlib stdlib.h"
 case "$d_drand48_r_proto:$usethreads" in
 ":define") d_drand48_r_proto=define
  set d_drand48_r_proto drand48_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_drand48_r_proto" in
 define)
 case "$drand48_r_proto" in
 "|0) try='int drand48_r(struct drand48_data*, double*);'
 ./protochk "$extern_C $try" $hdrs && drand48_r_proto=I_ST ;;
 esac
 case "$drand48_r_proto" in
 "|0) d_drand48_r=undef
  drand48_r_proto=0
  echo "Disabling drand48_r, cannot determine prototype." >&4 ;;
 * ) case
 "$drand48_r_proto" in
  REENTRANT_PROTO*) ;;
  *) drand48_r_proto="REENTRANT_PROTO_$drand48_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "drand48_r has no prototype, not using it." >&4 ;;
  esac
  d_drand48_r=undef
  drand48_r_proto=0
  ;;
 esac
 ;;
*) drand48_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_drand48_r.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: nametype.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: nametype.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:26:09  ram
?RCS: patch36: call ./usg and ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:36:48  ram
?RCS: patch32: fixed typo: /etc/password -> /etc/passwd (WED)
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:10:09  ram
?RCS: patch10: made questions more explicit for 'Configure -s' prompting (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:20  ram
?RCS: Baseline
 for dist 3.0 netwide release.
?RCS:
?MAKE:nametype d_passnames d_berknames d_usgnames: Myread Guess Oldconfig cat
?MAKE: -pick add $@ %<
?S:nametype:
?S: This variable indicates how full names are stored on this system.
?S: Values are bsd, usg, and other.
?S:.
?S:d_passnames:
?S: This variable conditionally defines the PASSNAMES symbol,
?S: which indicates to the C program that full names are stored in
?S: the /etc/passwd file.
?S:.
?S:d_berknames:
?S: This variable conditionally defines the PASSNAMES symbol,
?S: which indicates to the C program that full names are stored in
?S: the /etc/passwd file in Berkeley format.
?S:.
?S:d_usgnames:
?S: This variable conditionally defines the PASSNAMES symbol,
?S: which indicates to the C program that full names are stored in
?S: the /etc/passwd file in USG format.
?S:.
?C:PASSNAMES:
?C: This symbol, if defined, indicates that full names are stored in
?C: the /etc/passwd file.
?C:.
?C:BERKNAMES:
?C: This symbol, if defined, indicates that full
 names are stored in
?C: the /etc/passwd file in Berkeley format (name first thing, everything
?C: up to first comma, with & replaced by capitalized login id, yuck).
```

```
?C:.
?C:USGNAMES:
?C: This symbol, if defined, indicates that full names are stored in
?C: the /etc/passwd file in USG format (everything after - and before ( is
?C: the name).
?C:.
?H:#$d_passnames PASSNAMES /*  (undef to take name from ~/.fullname) */
?H:#$d_berknames BERKNAMES /* (that is, ":name,stuff:") */
?H:#$d_usgnames USGNAMES  /* (that is, ":stuff-name(stuff):") */
?H:.
: find out how to find out full name
case "$d_berknames" in
"$define")
 dflt=y;;
"$undef")
 dflt=n;;
*)
 if ./bsd; then
  dflt=y
 elif ./xenix; then
  dflt=y
 else
  dflt=n
 fi
 ;;
esac
$cat <<'EOM'

Does your /etc/passwd file keep full names in Berkeley/V7 format (name first
thing after ':' in GCOS field)?  In that case, a typical entry in the password
file looks like this:

   guest:**paswword**:10:100:Mister Guest User:/usr/users:/bin/sh

                         ^^^^^^^^^^^^^^^^^^
EOM
rp="Berkeley/V7 format for full name in /etc/passwd?"
. ./myread
case "$ans" in
y*) d_passnames="$define"
 d_berknames="$define"
 d_usgnames="$undef"
 nametype=bsd
 ;;
*)
 case "$d_usgnames" in
 "$define") dflt=y;;
 "$undef") dflt=n;;
```

```
 *)
  if ./usg; then
   dflt=y
  else
   dflt=n
  fi
  ;;
 esac
$cat <<'EOM'

Does your passwd file keep full names in USG format (name sandwiched between a
'-' and a '(')?  In that case, a typical entry in the password file looks like
this:

   guest:**paswword**:10:100:000-Mister Guest User(000):/usr/users:/bin/sh
                              ^^^^^^^^^^^^^^^^^^
EOM
 rp="USG format for full name in /etc/passwd?"
 . ./myread
 case "$ans" in
 n*) echo "Full name will be taken from ~/.fullname"
  d_passnames="$undef"
  d_berknames="$undef"
  d_usgnames="$undef"
  nametype=other
  ;;
 *)
  d_passnames="$define"
  d_berknames="$undef"
  d_usgnames="$define"
  nametype=usg
  ;;
 esac;;
esac

Found in path(s):
*
 /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
5.36.0/dist/U/nametype.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: i_sysmount.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
```

```
?MAKE:i_sysmount: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysmount:
?S: This variable conditionally defines the I_SYSMOUNT symbol,
?S: and indicates whether a C program should include <sys/mount.h>.
?S:.
?C:I_SYS_MOUNT:
?C: This symbol, if defined, indicates that <sys/mount.h> exists and
?C: should be included.
?C:.
?H:#$i_sysmount I_SYS_MOUNT  /**/
?H:.
?LINT:set i_sysmount
: see if this is a sys/mount.h system
set sys/mount.h i_sysmount
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_sysmount.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: voidflags.U,v 3.0.1.2 1997/02/28 16:27:58 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: voidflags.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:27:58  ram
?RCS: patch61: don't prompt them if the void support is high enough for us
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:37:44  ram
?RCS: patch45: cosmetic change to avoid spurious blank lines when using -s
?RCS:
?RCS: Revision 3.0  1993/08/18  12:10:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:voidflags defvoidused: cat rm_try compiler_warning +cc +ccflags package \
 Oldconfig
 Myread i_stdlib
?MAKE: -pick add $@ %<
?S:voidflags:
?S: This variable contains the eventual value of the VOIDFLAGS symbol,
```

```
?S: which indicates how much support of the void type is given by this
?S: compiler.  See VOIDFLAGS for more info.
?S:.
?S:defvoidused:
?S: This variable contains the default value of the VOIDUSED symbol (15).
?S:.
?X: Exceptionally, we have to explicitly alias the symbol name for
?X: config_h.SH, otherwise the comment would not appear.
?C:VOIDFLAGS ~ %<:
?C: This symbol indicates how much support of the void type is given by this
?C: compiler.  What various bits mean:
?C:
?C:     1 = supports declaration of void
?C:     2 = supports arrays of pointers to functions returning void
?C:     4 = supports comparisons between pointers to void functions and
?C:      addresses of void functions
?C:     8 = supports declaration of generic void pointers
?C:
?C: The package designer should define VOIDUSED to indicate the requirements
?C: of the package.  This can be
 done either by #defining VOIDUSED before
?C: including config.h, or by defining defvoidused in Myinit.U.  If the
?C: latter approach is taken, only those flags will be tested.  If the
?C: level of void support necessary is not present, defines void to int.
?C:.
?H:?%<:#ifndef VOIDUSED
?H:?%<:#define VOIDUSED $defvoidused
?H:?%<:#endif
?H:?%<:#define VOIDFLAGS $voidflags
?H:?%<:#if (VOIDFLAGS & VOIDUSED) != VOIDUSED
?H:?%<:#define void int  /* is void to be avoided? */
?H:?%<:#define M_VOID   /* Xenix strikes again */
?H:?%<:#endif
?H:.
?INIT:: full support for void wanted by default
?INIT:defvoidused=15
?INIT:
?LINT:known void M_VOID VOIDUSED
: check for void type
echo " "
echo "Checking to see how well your C compiler groks the void type..." >&4
case "$voidflags" in
")
 $cat >try.c <<EOCP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
```

```
#if TRY & 1
void sub() {
#else
sub() {
#endif
 extern void moo(); /* function returning void */
 void (*goo)();  /* ptr to func returning
 void */
#if TRY & 8
 void *hue;  /* generic ptr */
#endif
#if TRY & 2
 void (*foo[10])();
#endif

#if TRY & 4
 if(goo == moo) {
  exit(0);
 }
#endif
 exit(0);
}
int main() { sub(); }
EOCP
?X: This unit used to use cc -S in those tests to try to speed up things, but
?X: unfortunately, AIX 3.2 does not support this option.
 if $cc $ccflags -c -DTRY=$defvoidused try.c >.out 2>&1 ; then
  voidflags=$defvoidused
 echo "Good.  It appears to support void to the level $package wants.">&4
  if $compiler_warning .out >/dev/null 2>&1; then
   echo "However, you might get some warnings that look like this:"
   $cat .out
  fi
 else
echo "Hmm, your compiler has some difficulty with void. Checking further..." >&4
  if $cc $ccflags -c -DTRY=1 try.c >/dev/null 2>&1; then
   echo "It supports 1..."
   if $cc $ccflags -c -DTRY=3 try.c >/dev/null 2>&1; then
    echo "It also supports 2..."
    if $cc $ccflags -c -DTRY=7 try.c >/dev/null 2>&1; then
     voidflags=7
     echo "And it supports 4 but not 8
 definitely."
    else
     echo "It doesn't support 4..."
     if $cc $ccflags -c -DTRY=11 try.c >/dev/null 2>&1; then
      voidflags=11
      echo "But it supports 8."
```

```
    else
     voidflags=3
     echo "Neither does it support 8."
    fi
   fi
  else
   echo "It does not support 2..."
   if $cc $ccflags -c -DTRY=13 try.c >/dev/null 2>&1; then
    voidflags=13
    echo "But it supports 4 and 8."
   else
    if $cc $ccflags -c -DTRY=5 try.c >/dev/null 2>&1; then
     voidflags=5
     echo "And it supports 4 but has not heard about 8."
    else
     echo "However it supports 8 but not 4."
    fi
   fi
  fi
 else
  echo "There is no support at all for void."
  voidflags=0
 fi
fi
esac
?X: Only prompt user if support does not match the level we want
case "$voidflags" in
"$defvoidused") ;;
*) $cat >&4 <<'EOM'
 Support flag bits are:
   1: basic void declarations.
   2: arrays of pointers to functions returning void.
   4: operations between pointers to and addresses
 of void functions.
   8: generic void pointers.
EOM
 dflt="$voidflags";
 rp="Your void support flags add up to what?"
 . ./myread
 voidflags="$ans"
 ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/voidflags.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Head.U 6 2006-08-25 22:21:46Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Head.U,v $
?RCS: Revision 3.0.1.9  1997/02/28  15:02:09  ram
?RCS: patch61: make sure we unset CDPATH for shells that support this
?RCS: patch61: improved Korn shell detection and handling
?RCS:
?RCS: Revision 3.0.1.8  1995/07/25  13:40:02  ram
?RCS: patch56: added SVR4-ish /opt directories to path list (ADO)
?RCS: patch56: OS/2 platforms are using another path separator
?RCS:
?RCS: Revision 3.0.1.7  1995/03/21  08:46:15  ram
?RCS: patch52: definition of
 paths wrongly added spurious ':' chars
?RCS:
?RCS: Revision 3.0.1.6  1994/10/29  15:54:19  ram
?RCS: patch36: make sure ENV is unset before calling /bin/ksh
?RCS:
?RCS: Revision 3.0.1.5  1994/08/29  16:03:44  ram
?RCS: patch32: now sets PATH only using existing directories
?RCS:
?RCS: Revision 3.0.1.4  1994/06/20  06:54:28  ram
?RCS: patch30: now computes its invocation name into 'me'
?RCS: patch30: symbol me is made visible to all units read-only
?RCS:
?RCS: Revision 3.0.1.3  1993/12/15  08:15:07  ram
?RCS: patch15: added /sbin:/usr/sbin:/usr/libexec in PATH for BSD/386
?RCS:
?RCS: Revision 3.0.1.2  1993/11/10  17:32:35  ram
?RCS: patch14: ensure PATH is reset to '.' before testing for alias
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:38:07  ram
?RCS: patch7: not all 'test' programs support the -x option
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
```

```
?X: This is the very first unit in the Configure script.  It is mostly just
?X:
 things to keep people from getting into a tizzy right off the bat.
?X:
?MAKE:Head:
?MAKE: -pick wipe $@ %<
?V:PATH p_ _exe me newsh
?T:argv p paths OS2_SHELL DJGPP
?T:inksh needksh avoidksh newsh changesh reason
?F:!*
?LINT:extern ENV CDPATH SHELL MACHTYPE _exe is_os2
?LINT:change ENV CDPATH is_os2
?LINT:nocomment
#! /bin/sh
#
# If these # comments don't work, trim them. Don't worry about any other
# shell scripts, Configure will trim # comments from them for you.
#
# (If you are trying to port this package to a machine without sh,
# I would suggest you have a look at the prototypical config_h.SH file
# and edit it to reflect your system. Some packages may include samples
# of config.h for certain machines, so you might look for one of those.)
#
?X:
?X: NOTE THAT A CONFIGURE SCRIPT IS IN THE PUBLIC DOMAIN (whether or not
?X: the software which uses it is in the public domain).
?X:
# Yes, you may rip this off to use in other distribution packages. This
# script belongs to the public
 domain and cannot be copyrighted.
#
?X:
?X: WE ASK YOU NOT TO REMOVE OR ALTER THE FOLLOWING PARAGRAPH, PLEASE:
?X:
# Note: this Configure script was generated automatically by the tool
# called "metaconfig". Rather than working with this copy of Configure,
# you should use metaconfig. Perl uses a modified version of this
# tool, and this, together with the metaconfig units, are available
# in the git repository:
#    $ git clone https://github.com/Perl/metaconfig metaconfig
# The original dist package (including metaconfig) is available on github:
#    $ git clone https://github.com/rmanfredi/dist.git dist-git
#
?X: OK, I'll not alter, but I'll add to it then ...
# Though this script was generated by metaconfig from metaunits, it is
# OK to send patches against Configure itself (but not to commit them
# to blead). It's up to
# the Configure maintainers to backport the patch to the metaunits if it
```

```
# is accepted. Exceptions to this rule, and more information, is in
# Porting/pumpkin.pod.
?X:
?X:
 NOTA BENE:
?X: If you develop you own version of metaconfig based on this work,
?X: you have to add some comments telling that the script was generated
?X: by your version, not mine: It credits your work.
?X:

# Generated using [metaconfig <VERSION> PL<PATCHLEVEL>]
# with additional metaconfig patches from https://github.com/Perl/metaconfig

cat >c1$$ <<EOF
ARGGGHHHH!!!!!

SCO csh still thinks true is false.  Write to SCO today and tell them that next
year Configure ought to "rm /bin/csh" unless they fix their blasted shell. :-)

(Actually, Configure ought to just patch csh in place.  Hmm.  Hmmmmm.  All
we'd have to do is go in and swap the && and || tokens, wherever they are.)

[End of diatribe. We now return you to your regularly scheduled programming...]
EOF
cat >c2$$ <<EOF

OOPS!  You naughty creature!  You didn't run Configure with sh!
I will attempt to remedy the situation by running sh for you...
EOF

true || cat c1$$ c2$$
true || exec sh $0 $argv:q

(exit $?0) || cat
 c2$$
(exit $?0) || exec sh $0 $argv:q
rm -f c1$$ c2$$

if test -f /dev/cputype -a -f /dev/drivers -a -f /dev/osversion; then
 cat <<EOF
***
*** I'm sorry but this system looks like Plan 9 and Plan 9 doesn't do
*** Configure that well.  (Plan 9 is close to UNIX but not close enough.)
*** Please read the README.plan9 for further instructions.
*** Cannot continue, aborting.
***
EOF
 exit 1
```

```
fi

if test -f /sys/utilities/MultiView ; then
 # AmigaOS, test -c for /dev/null is not useful
 :
elif test ! -c /dev/null ; then
 cat <<EOF
***
*** I'm sorry, but /dev/null appears to be a file rather than a device.
*** Please consult your operating sytem's notes for making a device
*** in /dev.
*** Cannot continue, aborting.
***
EOF
 exit 1
fi

: compute my invocation name
me=$0
case "$0" in
*/*)
 me=`echo $0 | sed -e 's!.*/\(.*\)!\1!' 2>/dev/null`
 test "$me" || me=$0
 ;;
esac

?X:
?X: To be able to run under OS/2, we must detect that early enough to use
?X: the proper path separator, stored in $p_.
 It is : on UNIX and ; on
?X: DOS-ish systems such as OS/2.
?X:
: Proper separator for the PATH environment variable
p_=:
: On OS/2 this directory should exist if this is not floppy only system ":-]"
if test -d c:/. || ( uname -a | grep -i 'os\(/\|\)2' 2>&1 ) 2>&1 >/dev/null ; then
 if test -n "$OS2_SHELL"; then
  p_=\;
  PATH=`cmd /c "echo %PATH%" | tr '\\\\' / `
?X: That's a bug in ksh5.22
  OS2_SHELL=`cmd /c "echo %OS2_SHELL%" | tr '\\\\' / | tr '[A-Z]' '[a-z]'`
  is_os2=yes
 elif test -n "$DJGPP"; then
  case "X${MACHTYPE:-nonesuchmach}" in
  *cygwin|*msys) ;;
  *) p_=\; ;;
  esac
 fi
```

```
fi

?X:
?X: There are two schools of thoughts here. Some people correctly argue that
?X: the user has a better chance than we do of setting a reasonable PATH and
?X: others argue that Configure is the best place there is to set up a suitable
?X: PATH. Well, here we try to compromise by keeping the user's PATH and
?X: appending some directories which are known to work on some machine or the
?X: other.
 The rationale behind this being that a novice user might not have a
?X: proper environment variable set, and some directories like /etc (where
?X: chown is located on some BSD systems) may be missing--RAM.
?X:
?X: SVR4 adds an /opt directory for optional packages.  Some sites use
?X: various permutations on /opt as opposed to /usr or /usr/local.-- ADO
?X:
?X: We only add directories that are not already in the PATH of the
?X: user and the directories must exist also.
?X:
?X: 20040627, Merijn, HP-UX's ANSI compiler is in /opt/ansic/bin if present
?X:  and should be before /usr/ccs/bin, where the braindead bundled compiler
?X:  can be found. The /usr/ccs/bin compiler cannot be used to build perl.
?X:
: Proper PATH setting
paths='/bin /usr/bin /usr/local/bin /usr/ucb /usr/local /usr/lbin'
paths="$paths /opt/bin /opt/local/bin /opt/local /opt/lbin"
paths="$paths /usr/5bin /etc /usr/gnu/bin /usr/new /usr/new/bin /usr/nbin"
paths="$paths /opt/gnu/bin /opt/new /opt/new/bin /opt/nbin"
paths="$paths
 /sys5.3/bin /sys5.3/usr/bin /bsd4.3/bin /bsd4.3/usr/ucb"
paths="$paths /bsd4.3/usr/bin /usr/bsd /bsd43/bin /opt/ansic/bin /usr/ccs/bin"
paths="$paths /etc /usr/lib /usr/ucblib /lib /usr/ccs/lib"
paths="$paths /sbin /usr/sbin /usr/libexec"
paths="$paths /system/gnu_library/bin"

for p in $paths
do
 case "$p_$PATH$p_" in
 *$p_$p$p_*) ;;
 *) test -d $p && PATH=$PATH$p_$p ;;
 esac
done

PATH=.$p_$PATH
export PATH

: shall we be using ksh?
inksh="
```

```
needksh=''
avoidksh=''
newsh=/bin/ksh
changesh=''
?X: Use (alias -x) and not (alias) since zsh and bash recognize the alias
?X: builtin but not the -x option which is typically ksh...
?X: We need to set up PATH before calling the "alias" built-in since some
?X: systems like HP-UX have a binary called /bin/alias.
if (PATH=.; alias -x) >/dev/null 2>&1; then
  inksh=true
fi
?X: On HP-UX, large Configure scripts may exercise a bug in /bin/sh, use ksh
if test -f /hp-ux -a -f /bin/ksh; then
 needksh='to avoid sh bug in "here document" expansion'
fi
?X:
 On AIX4, /bin/sh is really ksh and it causes problems, use sh
if test -d /usr/lpp -a -f /usr/bin/bsh -a -f /usr/bin/uname; then
 if test X`/usr/bin/uname -v` = X4; then
  avoidksh="to avoid AIX 4's /bin/sh"
  newsh=/usr/bin/bsh
 fi
fi
?X: On Digital UNIX, /bin/sh may start up buggy /bin/ksh, use sh
if test -f /osf_boot -a -f /usr/sbin/setld; then
 if test X`/usr/bin/uname -s` = XOSF1; then
  avoidksh="to avoid Digital UNIX' ksh"
  newsh=/bin/sh
?X: if BIN_SH is set to 'xpg4', sh will start up ksh
  unset BIN_SH
 fi
fi
?X: If we are not in ksh and need it, then feed us back to it
case "$inksh/$needksh" in
/[a-z]*)
?X: Clear ENV to avoid any ~/.kshrc that could alias cd or whatever...
?X: Don't use "unset ENV", that is not portable enough
  ENV=''
  changesh=true
  reason="$needksh"
 ;;
esac
?X: If we are in ksh and must avoid it, then feed us back to a new shell
case "$inksh/$avoidksh" in
true/[a-z]*)
 changesh=true
 reason="$avoidksh"
 ;;
```

```
esac
?X: Warn them if they use ksh on
 other systems, which are those where
?X: we don't need ksh nor want to avoid it explicitly, yet are using it.
case "$inksh/$needksh-$avoidksh-" in
true/--)
  cat <<EOM
(I see you are using the Korn shell.  Some ksh's blow up on $me,
mainly on older exotic systems.  If yours does, try the Bourne shell instead.)
EOM
 ;;
esac
case "$changesh" in
true)
 export newsh
 echo "(Feeding myself to $newsh $reason.)"
?X: Make sure they didn't say sh <Configure by checking whether $0 ends
?X: with Configure or not. If they did say sh <../../Configure, then too
?X: bad for them anyway, since we lost that path indication...
?X: Otherwise, execing $0 ensures we keep the full remote source dir
?X: indication for src.U.
 case "$0" in
 Configure|*/Configure) exec $newsh $0 "$@";;
 *) exec $newsh Configure "$@";;
 esac
 ;;
esac
?X: 2004.06.09 rac
?X: having $newsh persist as ksh here is bad news if ksh doesn't really
?X: exist. this causes us to toss away a perfectly good working test in
?X: bash in favor
 of more exotic external options. see bug 42665.
test -x "${newsh}" || unset newsh

?X: Unset CDPATH to avoid surprises when using cd under some shells
?X: Can't unset it because that's not portable to very old shells.
?X: Can't set it to '' because then bash 2.02 won't do "cd UU"  --AD  6/98.
?X: Don't want to set it to '.' because then ksh prints out the
?X: name of the directory every time you cd to it. --AD 6/98
?X: In order to inflict the least harm, change it only if it's set.
: if needed, set CDPATH to a harmless value that is not chatty
: avoid bash 2.02 problems with empty CDPATH.
case "$CDPATH" in
'') ;;
*) case "$SHELL" in
 *bash*) CDPATH='.' ;;
 *) CDPATH='' ;;
 esac
```

```
 ;;
esac

: Configure runs within the UU subdirectory
test -d UU || mkdir UU
?X: Use ./* to avoid any confirmation prompts from enhanced shells -- WED
cd UU && rm -f ./*
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Head.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: ebcdic.U,v 3.0.1.3 1994/05/06 15:11:49 doughera Exp $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Original author Jarkko Hietaniemi <jhi@iki.fi>
?RCS: Merged into dist by Andy Dougherty  July 13, 1998
?RCS:
?MAKE:ebcdic: Compile Setvar cat rm_try run
?MAKE: -pick add $@ %<
?S:ebcdic:
?S: This variable conditionally defines EBCDIC if this
?S: system uses EBCDIC encoding.
?S:.
?C:EBCDIC:
?C: This symbol, if defined, indicates that this system uses
?C: EBCDIC encoding.
?C:.
?H:#$ebcdic EBCDIC  /**/
?H:.
?F:!try
?LINT:set ebcdic
: Determine if this is an EBCDIC system
echo " "
echo "Determining whether or not we are on an EBCDIC system..." >&4
$cat >try.c <<'EOM'
int main()
{
 if ('M'==0xd4) return 0;
 return 1;
}
EOM
```

```
val=$undef
set try
if eval
 $compile_ok; then
 if $run ./try; then
  echo "You seem to speak EBCDIC." >&4
  val="$define"
 else
  echo "Nope, no EBCDIC, probably ASCII or some ISO Latin. Or UTF-8." >&4
 fi
else
 echo "I'm unable to compile the test program." >&4
 echo "I'll assume ASCII or some ISO Latin. Or UTF8." >&4
fi
$rm_try
set ebcdic
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/ebcdic/ebcdic.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_dbl_dig.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_dbl_dig.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:28  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_dbl_dig: Myread contains cat rm Setvar i_limits i_float \
 cppstdin cppflags cppminus
?MAKE: -pick add $@ %<
?S:d_dbl_dig:
?S: This variable conditionally defines d_dbl_dig if this system's
?S: header files provide DBL_DIG, which is the number of significant
?S: digits
 in a double precision number.
?S:.
```

```
?C:HAS_DBL_DIG:
?C: This symbol, if defined, indicates that this system's <float.h>
?C: or <limits.h> defines the symbol DBL_DIG, which is the number
?C: of significant digits in a double precision number.  If this
?C: symbol is not defined, a guess of 15 is usually pretty good.
?C:.
?H:#$d_dbl_dig HAS_DBL_DIG  /**/
?H:.
?F:!dbl_dig.c
?LINT:set d_dbl_dig
: See if number of significant digits in a double precision number is known
echo " "
$cat >dbl_dig.c <<EOM
#$i_limits I_LIMITS
#$i_float I_FLOAT
#ifdef I_LIMITS
#include <limits.h>
#endif
#ifdef I_FLOAT
#include <float.h>
#endif
#ifdef DBL_DIG
printf("Contains DBL_DIG");
#endif
EOM
$cppstdin $cppflags $cppminus < dbl_dig.c >dbl_dig.E 2>/dev/null
if $contains 'DBL_DIG' dbl_dig.E >/dev/null 2>&1; then
 echo "DBL_DIG found." >&4
 val="$define"
else
 echo "DBL_DIG NOT found." >&4
 val="$undef"
fi
$rm -f dbl_dig.?
set d_dbl_dig
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_dbl_dig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
?MAKE:d_msghdr_s: Hasstruct i_systypes d_socket i_sysuio Setvar
?MAKE: -pick add $@ %<
?S:d_msghdr_s:
?S: This variable conditionally defines the HAS_STRUCT_MSGHDR symbol,
?S: which indicates that the struct msghdr is supported.
?S:.
?C:HAS_STRUCT_MSGHDR:
?C: This symbol, if defined, indicates that the struct msghdr
?C: is supported.
?C:.
?H:#$d_msghdr_s HAS_STRUCT_MSGHDR /**/
?H:.
?LINT:set d_msghdr_s
: Check for msghdr_s
echo " "
echo "Checking to see if your system supports struct msghdr..." >&4
set d_msghdr_s msghdr $i_systypes sys/types.h $d_socket sys/socket.h $i_sysuio sys/uio.h
eval $hasstruct
case "$d_msghdr_s" in
"$define")      echo "Yes, it does."   ;;
*)              echo "No, it doesn't."
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_msghdr_s.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: startsh.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: startsh.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:25:31  ram
?RCS: patch61: avoid needless chatter since this is now done very early
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:startsh: sh sharpbang eunicefix
```

```
?MAKE: -pick add $@ %<
?S:startsh:
?S: This variable contains the string to put on the front of a shell
?S: script to make sure (hopefully) that it runs with sh and not some
?S: other
 shell.
?S:.
?F:!sharp
: figure out how to guarantee sh startup
?X: Avoid needless chatter since this is now done very early.
?X: echo " "
?X: echo "Checking out how to guarantee sh startup..." >&2
case "$startsh" in
") startsh=${sharpbang}${sh} ;;
*)
?X: echo "Let's see if '$startsh' works..." ;;
esac
cat >sharp <<EOSS
$startsh
set abc
test "$?abc" != 1
EOSS

chmod +x sharp
$eunicefix sharp
if ./sharp; then
 : echo "Yup, it does."
else
 echo "Hmm... '$startsh' does not guarantee sh startup..."
 echo "You may have to fix up the shell scripts to make sure $sh runs them."
fi
rm -f sharp
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/startsh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_casti32.U,v 3.0.1.3 1995/05/12 12:10:45 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
```

```
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_casti32.U,v $
?RCS: Revision 3.0.1.3  1995/05/12  12:10:45  ram
?RCS: patch54: made sure cc and ccflags are conditional dependencies
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:09:37  ram
?RCS: patch36: declare signal handler correctly (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:06  ram
?RCS: patch32: created by ADO
?RCS:
?X:
?X: Can the compiler cast large floats to
 32-bit integers?
?X:
?MAKE:d_casti32: cat Compile rm_try intsize Setvar test signal_t run i_stdlib
?MAKE: -pick add $@ %<
?S:d_casti32:
?S: This variable conditionally defines CASTI32, which indicates
?S: whether the C compiler can cast large floats to 32-bit ints.
?S:.
?C:CASTI32:
?C: This symbol is defined if the C compiler can cast negative
?C: or large floating point numbers to 32-bit ints.
?C:.
?H:#$d_casti32 CASTI32  /**/
?H:.
?T:xxx yyy
?F:!try
?LINT:set d_casti32
: check for ability to cast large floats to 32-bit ints.
echo " "
echo 'Checking whether your C compiler can cast large floats to int32.' >&4
if $test "$intsize" -ge 4; then
 xxx=int
else
 xxx=long
fi
$cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <sys/types.h>
#include <signal.h>
$signal_t blech(int s) { exit(3); }
```

```
int main()
{
 $xxx i32;
 double f, g;
 int result = 0;
 char str[16];
 signal(SIGFPE, blech);

 /* Don't let compiler optimize the test away.
  Store the number
    in a writable string for gcc to pass to sscanf under HP-UX.
 */
 sprintf(str, "2147483647");
 sscanf(str, "%lf", &f); /* f = (double) 0x7fffffff; */
 g = 10 * f;
 i32  = ($xxx) g;

 /* x86 processors will probably give 0x8000 0000, which is a
    sign change.  We don't want that.  We want to mimic SPARC
    behavior here, which is to preserve the sign and give
    back 0x7fff ffff.
 */
 if (i32 != ($xxx) f)
  result |= 1;
 exit(result);
}
EOCP
set try
if eval $compile_ok; then
 $run ./try 2>/dev/null
 yyy=$?
else
 echo "(I can't seem to compile the test program--assuming it can't)"
 yyy=1
fi
case "$yyy" in
0) val="$define"
 echo "Yup, it can."
 ;;
*) val="$undef"
 echo "Nope, it can't."
 ;;
esac
set d_casti32
eval $setvar
$rm_try

Found in path(s):
```

* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_casti32.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_sresgproto: Hasproto i_unistd
?MAKE: -pick add $@ %<
?S:d_sresgproto:
?S: This variable conditionally defines the HAS_SETRESGID_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the setresgid() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_SETRESGID_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the setresgid() function.  Otherwise, it is up
?C: to the program to supply one.  Good guesses are
?C:  extern
 int setresgid(uid_t ruid, uid_t euid, uid_t suid);
?C:.
?H:#$d_sresgproto HAS_SETRESGID_PROTO /**/
?H:.
?LINT:set d_sresgproto
: see if prototype for setresgid is available
echo " "
set d_sresgproto setresgid $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_sresgproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sitebin.U,v $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sitebin.U,v $
?RCS:
?MAKE:sitebin sitebinexp installsitebin : Getfile Oldconfig \
 Setprefixvar siteprefix
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitebin=''
?S:sitebin:
?S: This variable holds the name of the directory in which the user wants
?S: to put add-on publicly executable files for the package in question.  It
?S: is most often a local directory such as /usr/local/bin. Programs using
?S: this variable must be prepared to deal with ~name substitution.
?S: The standard distribution will put nothing
 in this directory.
?S: After perl has been installed, users may install their own local
?S: executables in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitebinexp=''
?S:sitebinexp:
?S: This is the same as the sitebin variable, but is filename expanded at
?S: configuration time, for use in your makefiles.
?S:.
?D:installsitebin=''
?S:installsitebin:
?S: This variable is usually the same as sitebinexp, unless you are on
?S: a system running AFS, in which case they may differ slightly. You
?S: should always use this variable within your makefiles for portability.
?S:.
?LINT:change prefixvar
?LINT:set installsitebin
?LINT:set sitebin
?LINT:set sitebinexp
: determine where add-on public executables go
case "$sitebin" in
'') dflt=$siteprefix/bin ;;
*) dflt=$sitebin ;;
esac
fn=d~
rp='Pathname where the add-on public executables should be installed?'
. ./getfile
prefixvar=sitebin
. ./setprefixvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/sitebin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: longsize.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: longsize.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:09:35  ram
?RCS: patch61: code moved to intsize.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:24:31  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: 'longsize' is now defined within intsize.U
?X:
?LINT: empty
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/longsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fgetpos.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_fgetpos.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  06:57:33  ram
```

```
?RCS: patch30: created
?RCS:
?MAKE:d_fgetpos: Inlibc
?MAKE: -pick add $@ %<
?S:d_fgetpos:
?S: This variable conditionally defines HAS_FGETPOS if fgetpos() is
?S: available to get the file position indicator.
?S:.
?C:HAS_FGETPOS:
?C: This symbol, if defined, indicates that the fgetpos routine is
?C: available to get the file position indicator, similar to ftell().
?C:.
?H:#$d_fgetpos
 HAS_FGETPOS /**/
?H:.
?LINT:set d_fgetpos
: see if fgetpos exists
set fgetpos d_fgetpos
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_fgetpos.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: bin.U,v $
?RCS: Revision 3.0.1.4  1995/09/25  09:15:32  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:32:40  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:05:28  ram
?RCS: patch32: now uses installation prefix
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  15:56:51  ram
?RCS: patch10: made prompting more explicit (WAD)
?RCS:
```

```
?RCS: Revision 3.0  1993/08/18
  12:05:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:bin binexp installbin: Prefixit Getfile Oldconfig afs cat test
?MAKE: -pick add $@ %<
?Y:TOP
?S:bin:
?S: This variable holds the name of the directory in which the user wants
?S: to put publicly executable images for the package in question.  It
?S: is most often a local directory such as /usr/local/bin. Programs using
?S: this variable must be prepared to deal with ~name substitution.
?S:.
?S:binexp:
?S: This is the same as the bin variable, but is filename expanded at
?S: configuration time, for use in your makefiles.
?S:.
?S:installbin:
?S: This variable is the same as binexp unless AFS is running in which case
?S: the user is explicitly prompted for it. This variable should always
?S: be used in your makefiles for maximum portability.
?S:.
?C:BIN:
?C: This symbol holds the path of the bin directory where the package will
?C: be installed. Program must be prepared to deal with ~name substitution.
?C:.
?C:BIN_EXP:
?C: This
 symbol is the filename expanded version of the BIN symbol, for
?C: programs that do not want to deal with that at run-time.
?C:.
?H:#define BIN "$bin" /**/
?H:#define BIN_EXP "$binexp" /**/
?H:.
?D:bin='/usr/local/bin'
: determine where public executables go
echo " "
set dflt bin bin
eval $prefixit
fn=d~
rp='Pathname where the public executables will reside?'
. ./getfile
if $test "X$ansexp" != "X$binexp"; then
 installbin=''
fi
bin="$ans"
binexp="$ansexp"
if $afs; then
```

```
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
executables reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installbin" in
 ") dflt=`echo $binexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installbin";;
 esac
 fn=de~
 rp='Where will public executables be installed?'
 . ./getfile
 installbin="$ans"
else
 installbin="$binexp"
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/bin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: installstyle.U,v 1.2 1999/07/13 14:56:06 doughera Exp $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: installstyle.U,v $
?RCS: Revision 1.2  1999/07/13 14:56:06  doughera
?RCS: Fix dependencies.  Add more comments.
?RCS:
?RCS: Revision 1.1  1999/07/12 17:30:41  doughera
?RCS: Initial revision
?RCS:
?RCS:
?MAKE:installstyle: prefix Myread
?MAKE: -pick add $@ %<
?X: Myread dependence is for dflt.
?S:installstyle:
?S: This variable describes the "style" of the perl installation.
?S: This is intended to be useful for tools that need to
```

```
?S: manipulate entire perl
 distributions.  Perl itself doesn't use
?S: this to find its libraries -- the library directories are
?S: stored directly in Config.pm.  Currently, there are only two
?S: styles:  "lib" and "lib/perl5".  The default library locations
?S: (e.g. privlib, sitelib) are either $prefix/lib or
?S: $prefix/lib/perl5.  The former is useful if $prefix is a
?S: directory dedicated to perl (e.g. /opt/perl), while the latter
?S: is useful if $prefix is shared by many packages, e.g. if
?S: $prefix=/usr/local.
?S:
?S: Unfortunately, while this "style" variable is used to set
?S: defaults for all three directory hierarchies (core, vendor, and
?S: site), there is no guarantee that the same style is actually
?S: appropriate for all those directories.  For example, $prefix
?S: might be /opt/perl, but $siteprefix might be /usr/local.
?S: (Perhaps, in retrospect, the "lib" style should never have been
?S: supported, but it did seem like a nice idea at the time.)
?S:
?S: The situation is even less clear for
 tools such as MakeMaker
?S: that can be used to install additional modules into
?S: non-standard places.  For example, if a user intends to install
?S: a module into a private directory (perhaps by setting PREFIX on
?S: the Makefile.PL command line), then there is no reason to
?S: assume that the Configure-time $installstyle setting will be
?S: relevant for that PREFIX.
?S:
?S: This may later be extended to include other information, so
?S: be careful with pattern-matching on the results.
?S:
?S: For compatibility with perl5.005 and earlier, the default
?S: setting is based on whether or not $prefix contains the string
?S: "perl".
?S:.
: determine installation style
: For now, try to deduce it from prefix unless it is already set.
: Reproduce behavior of 5.005 and earlier, maybe drop that in 5.7.
case "$installstyle" in
") case "$prefix" in
  *perl*) dflt='lib';;
  *) dflt='lib/perl5' ;;
 esac
 ;;
*) dflt="$installstyle" ;;
esac
: Probably not worth prompting for this since we prompt
```

```
 for all
: the directories individually, and the prompt would be too long and
: confusing anyway.
installstyle=$dflt
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/installstyle.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_fp.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_fp: Inhdr
?MAKE: -pick add $@ %<
?S:i_fp:
?S: This variable conditionally defines the I_FP symbol, and indicates
?S: whether a C program should include <fp.h>.
?S:.
?C:I_FP:
?C: This symbol, if defined, indicates that <fp.h> exists and
?C: should be included.
?C:.
?H:#$i_fp I_FP  /**/
?H:.
?LINT:set i_fp
: see if this is a fp.h system
set fp.h i_fp
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_fp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethbyad.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_gethbyaddr: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_gethbyaddr:
?S: This variable conditionally defines the HAS_GETHOSTBYADDR symbol, which
?S: indicates to the C program that the gethostbyaddr() routine is available
?S: to look up hosts by their IP addresses.
?S:.
?C:HAS_GETHOSTBYADDR:
?C: This symbol, if defined, indicates that the gethostbyaddr() routine is
?C: available to look up hosts by their IP addresses.
?C:.
?H:#$d_gethbyaddr HAS_GETHOSTBYADDR  /**/
?H:.
?LINT:set d_gethbyaddr
: see if gethostbyaddr exists
set gethostbyaddr d_gethbyaddr
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_gethbyad.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_socks5_init: Inlibc
?MAKE: -pick add $@ %<
?S:d_socks5_init:
?S: This variable conditionally defines the HAS_SOCKS5_INIT symbol, which
?S: indicates to the C program that the socks5_init() routine is available.
?S:.
?C:HAS_SOCKS5_INIT:
?C: This symbol, if defined, indicates that the socks5_init routine is
?C: available to initialize SOCKS 5.
?C:.
?H:#$d_socks5_init HAS_SOCKS5_INIT  /**/
?H:.
?LINT:set d_socks5_init
: see if socks5_init exists
set socks5_init d_socks5_init
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_socks5_init.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setvbuf.U,v 3.0.1.1 1994/08/29 16:11:57 ram Exp $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_setvbuf.U,v $
?RCS:
?MAKE:d_setvbuf: Inlibc
?MAKE: -pick add $@ %<
?S:d_setvbuf:
?S: This variable conditionally defines the HAS_SETVBUF symbol, which
?S: indicates to the C program that the setvbuf() routine is available
?S: to change buffering on an open stdio stream.
?S:.
?C:HAS_SETVBUF :
?C: This symbol, if defined, indicates that the setvbuf routine is
?C: available to change buffering on an open stdio stream.
?C: to a line-buffered mode.
?C:.
?H:#$d_setvbuf HAS_SETVBUF  /**/
?H:.
?LINT:set d_setvbuf
: see if setvbuf exists
set setvbuf d_setvbuf
eval $inlibc
```

Found
 in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_setvbuf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: d_shm.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_shm: test d_shmctl d_shmget d_shmat d_shmdt Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_shm:
?S: This variable conditionally defines the HAS_SHM symbol, which
?S: indicates that the entire shm*(2) library is present.
?S:.
?C:HAS_SHM:
?C: This symbol, if defined, indicates that the entire shm*(2) library is
?C: supported.
?C:.
?H:#$d_shm HAS_SHM  /**/
?H:.
?T:h_shm
?LINT:set d_shm
:
 see how much of the 'shm*(2)' library is present.
h_shm=true
echo " "
case "$d_shmctl$d_shmget$d_shmat$d_shmdt" in
*"$undef"*) h_shm=false;;
esac
: we could also check for sys/ipc.h ...
if $h_shm && $test `./findhdr sys/shm.h`; then
 echo "You have the full shm*(2) library." >&4
 val="$define"
else
 echo "You don't have the full shm*(2) library." >&4
 val="$undef"
fi
set d_shm
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_shm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: installprefix.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: installprefix.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?RCS:
?MAKE:installprefix installprefixexp: Getfile Loc \
 Oldconfig afs cat package prefix
?MAKE: -pick add $@ %<
?S:installprefix:
?S: This variable holds the name of the directory below which
?S: "make install" will install the package.  For most users, this
?S: is the same
 as prefix.  However, it is useful for
?S: installing the software into a different (usually temporary)
?S: location after which it can be bundled up and moved somehow
?S: to the final location specified by prefix.
?S:.
?S:installprefixexp:
?S: This variable holds the full absolute path of installprefix
?S: with all ~-expansion done.
?S:.
: determine installation prefix for where package is to be installed.
if $afs; then
$cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
files will reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installprefix" in
 ") dflt=`echo $prefix | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installprefix";;
 esac
else
$cat <<EOM

In some special cases, particularly when building $package for distribution,
it is convenient to distinguish the directory in which files should be
installed from the directory ($prefix) in which they will
eventually
 reside.  For most users, these two directories are the same.
```

```
EOM
 case "$installprefix" in
 ") dflt=$prefix ;;
 *) dflt=$installprefix;;
 esac
fi
fn=d~
rp='What installation prefix should I use for installing files?'
. ./getfile
installprefix="$ans"
installprefixexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/installprefix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:multiarch: osname
?MAKE: -pick add $@ %<
?S:multiarch:
?S: This variable conditionally defines the MULTIARCH symbol
?S: which signifies the presence of multiplatform files.
?S: This is normally set by hints files.
?S:.
?C:MULTIARCH:
?C: This symbol, if defined, signifies that the build
?C: process will produce some binary files that are going to be
?C: used in a cross-platform environment.  This is the case for
?C: example with the NeXT "fat" binaries that contain executables
?C: for
 several CPUs.
?C:.
?H:#$multiarch MULTIARCH  /**/
?H:.
: Check if is a multiplatform env
case "$osname" in
darwin) multiarch="$define" ;;
```

```
esac
case "$multiarch" in
"|[nN]*) multiarch="$undef" ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/a_dvisory/multiarch.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: usenm.U,v 3.0.1.1 1997/02/28 16:26:40 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: usenm.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:26:40  ram
?RCS: patch61: don't use nm with the GNU C library
?RCS: patch61: added support for Linux shared libs
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:usenm runnm nm_opt nm_so_opt: cat test Myread Oldconfig myuname grep \
 nm d_gnulibc osname egrep rsrc
?MAKE: -pick add $@ %<
?S:usenm:
?S: This variable contains 'true' or 'false' depending
 whether the
?S: nm extraction is wanted or not.
?S:.
?S:runnm:
?S: This variable contains 'true' or 'false' depending whether the
?S: nm extraction should be performed or not, according to the value
?S: of usenm and the flags on the Configure command line.
?S:.
?S:nm_opt:
?S: This variable holds the options that may be necessary for nm.
?S:.
?S:nm_so_opt:
?S: This variable holds the options that may be necessary for nm
?S: to work on a shared library but that can not be used on an
?S: archive library.  Currently, this is only used by Linux, where
```

```
?S: nm --dynamic is *required* to get symbols from an ELF library which
?S: has been stripped, but nm --dynamic is *fatal* on an archive library.
?S: Maybe Linux should just always set usenm=false.
?S:.
: see if nm is to be used to determine whether a symbol is defined or not
?X: If there is enough inquiries, it might be worth to wait for the nm
?X: extraction. Otherwise, the C compilations might be a better deal.
?X:
?X: Don't bother if we're
 using GNU libc -- skimo
?LINT:extern PASE
case "$usenm" in
")
 dflt="
 case "$d_gnulibc" in
 "$define")
  echo " "
  echo "nm probably won't work on the GNU C Library." >&4
  dflt=n
  ;;
 esac
 case "$dflt" in
 ")
  if $test "$osname" = aix -a "X$PASE" != "Xdefine" -a ! -f /lib/syscalls.exp; then
   echo " "
   echo "Whoops!  This is an AIX system without /lib/syscalls.exp!" >&4
   echo "'nm' won't be sufficient on this system." >&4
   dflt=n
  fi
  ;;
 esac
 case "$dflt" in
 ") dflt=`$egrep 'inlibc|csym' $rsrc/Configure | wc -l 2>/dev/null`
  if $test $dflt -gt 20; then
   dflt=y
  else
   dflt=n
  fi
  ;;
 esac
 ;;
*)
 case "$usenm" in
 true|$define) dflt=y;;
 *) dflt=n;;
 esac
 ;;
esac
```

```
$cat <<EOM

I can use $nm to extract the symbols from your C libraries. This
is a time consuming task which may generate huge output on the disk (up
to 3 megabytes) but that should make the symbols extraction faster. The
alternative is to skip the 'nm' extraction part and to compile a small
test
 program instead to determine whether each symbol is present. If
you have a fast C compiler and/or if your 'nm' output cannot be parsed,
this may be the best solution.

You probably shouldn't let me use 'nm' if you are using the GNU C Library.

EOM
rp="Shall I use $nm to extract C symbols from the libraries?"
. ./myread
case "$ans" in
[Nn]*) usenm=false;;
*) usenm=true;;
esac

?X: Name extraction is to be run if 'nm' usage is wanted and if no -r flag
?X: was provided to configure (in which case we simply re-use the previous
?X: values).
runnm=$usenm
case "$reuseval" in
true) runnm=false;;
esac

: nm options which may be necessary
case "$nm_opt" in
") if $test -f /mach_boot; then
  nm_opt=" # Mach
 elif $test -d /usr/ccs/lib; then
  nm_opt='-p' # Solaris (and SunOS?)
 elif $test -f /dgux; then
  nm_opt='-p' # DG-UX
 elif $test -f /lib64/rld; then
  nm_opt='-p' # 64-bit Irix
 else
  nm_opt="
 fi;;
esac

: nm options which may be necessary for shared libraries but illegal
: for archive
 libraries.  Thank you, Linux.
case "$nm_so_opt" in
```

```
") case "$myuname" in
 *linux*|gnu*)
  if $nm --help | $grep 'dynamic' > /dev/null 2>&1; then
   nm_so_opt='--dynamic'
  fi
  ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/usenm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: floatsize.U,v 3.0.1.1 1994/10/29 16:17:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: floatsize.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:17:09  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:floatsize: cat rm Myread Compile run
?MAKE: -pick add $@ %<
?S:floatsize:
?S: This variable contains the value of the FLOATSIZE symbol, which
?S: indicates to the C program how many bytes there are in a float.
?S:.
?C:FLOATSIZE:
?C: This
 symbol contains the size of a float, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define FLOATSIZE $floatsize  /**/
?H:.
?F:!try
: check for length of float
echo " "
```

```
case "$floatsize" in
")
 echo "Checking to see how big your floating point numbers are..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
   printf("%d\n", (int)sizeof(float));
   exit(0);
}
EOCP
 set try
 if eval $compile_ok; then
  floatsize=`$run ./try`
 else
  dflt='4'
  echo "(I can't seem to compile the test program.  Guessing...)"
  rp="What is the size of a floating point number (in bytes)?"
  . ./myread
  floatsize="$ans"
 fi
 ;;
esac
$rm -f try.c try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/floatsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Filexp.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  15:52:53  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: added HOME to the ?T: line since metalint now checks ${HOME}
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:03:00  ram
?RCS: patch23: made sure error status from csh is propagated (WED)
?RCS:
```

```
?RCS: Revision 3.0  1993/08/18  12:04:53  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which will expand filenames beginning
?X:
 with tildes.  The script is deleted at the end of Configure.
?X:
?MAKE:Filexp: startsh sed test expr eunicefix
?MAKE: -pick add $@ %<
?F:./filexp
?T:HOME LOGDIR dir me name failed
: set up shell script to do ~ expansion
cat >filexp <<EOSS
$startsh
: expand filename
?X:
?X: The case entries below escape the ~ as some shells have shown expansion
?X: of the ~ during here-doc processing.
?X:
case "\$1" in
\~/*|\~)
 echo \$1 | $sed "s|~|\${HOME-\$LOGDIR}|"
 ;;
\~*)
 if $test -f /bin/csh; then
  /bin/csh -f -c "glob \$1"
  failed=\$?
  echo ""
  exit \$failed
 else
  name=\`$expr x\$1 : '..\([^/]*\)'\`
  dir=\`$sed -n -e "/^\${name}:/{s/^[^:]*:[^:]*:[^:]*:[^:]*:[^:]*:\([^:]*\).*"'\$'"/\1/" -e p -e q -e '}' </etc/passwd\`
  if $test ! -d "\$dir"; then
   me=\`basename \$0\`
   echo "\$me: can't locate home directory for: \$name" >&2
   exit 1
  fi
  case "\$1" in
  */*)
   echo \$dir/\`$expr x\$1 : '..[^/]*/\(.*\)'\`
   ;;
  *)
   echo \$dir
   ;;
  esac
 fi
 ;;
```

```
*)
 echo \$1
 ;;
esac
EOSS
chmod
 +x filexp
$eunicefix filexp
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Filexp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pathconf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_pathconf.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:14:54  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_pathconf d_fpathconf: Inlibc
?MAKE: -pick add $@ %<
?S:d_pathconf:
?S: This variable conditionally defines the HAS_PATHCONF symbol, which
?S: indicates to the C program that the pathconf() routine is available
?S: to determine file-system related limits and options
 associated
?S: with a given filename.
?S:.
?S:d_fpathconf:
?S: This variable conditionally defines the HAS_FPATHCONF symbol, which
?S: indicates to the C program that the pathconf() routine is available
?S: to determine file-system related limits and options associated
?S: with a given open file descriptor.
?S:.
?C:HAS_PATHCONF:
?C: This symbol, if defined, indicates that pathconf() is available
?C: to determine file-system related limits and options associated
```

```
?C: with a given filename.
?C:.
?C:HAS_FPATHCONF:
?C: This symbol, if defined, indicates that pathconf() is available
?C: to determine file-system related limits and options associated
?C: with a given open file descriptor.
?C:.
?H:#$d_pathconf HAS_PATHCONF  /**/
?H:#$d_fpathconf HAS_FPATHCONF  /**/
?H:.
?LINT:set d_pathconf
?LINT:set d_fpathconf
: see if pathconf exists
set pathconf d_pathconf
eval $inlibc

@if d_fpathconf || HAS_FPATHCONF
: see if fpathconf exists
set fpathconf d_fpathconf
eval $inlibc

@end
```

Found in path(s):
*
/opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_pathconf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_gethent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_gethent: Inlibc
?MAKE: -pick add $@ %<
?S:d_gethent:
?S: This variable conditionally defines HAS_GETHOSTENT if gethostent() is
?S: available to dup file descriptors.
```

```
?S:.
?C:HAS_GETHOSTENT (GETHOSTENT):
?C: This symbol, if defined, indicates that the gethostent routine is
?C: available to lookup host names in some data base or other.
?C:.
?H:#$d_gethent HAS_GETHOSTENT  /**/
?H:.
?LINT:set
 d_gethent
: see if gethostent exists
set gethostent d_gethent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_gethent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysun.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysun.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit looks wether <sys/un.h> is available or not
?X:
?MAKE:i_sysun: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysun:
?S: This variable conditionally defines I_SYS_UN, which indicates
?S: to the C program that it should include <sys/un.h> to get UNIX
?S: domain socket definitions.
?S:.
?C:I_SYS_UN:
?C: This symbol, if defined, indicates
 to the C program that it should
?C: include <sys/un.h> to get UNIX domain socket definitions.
?C:.
?H:#$i_sysun I_SYS_UN  /**/
```

```
?H:.
?LINT:set i_sysun
: see if this is a sys/un.h system
set sys/un.h i_sysun
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sysun.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Prefixup.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Prefixup.U,v $
?RCS: Revision 3.0.1.1  1995/01/30  14:30:40  ram
?RCS: patch49: created
?RCS:
?X:
?X: Used as: "set dflt; eval $prefixup" to set $dflt to be $prefix/dir
?X: instead of $prefixexp/dir, in case portability was involved somehow
?X: and $prefix uses ~name expansion.
?X:
?MAKE:Prefixup: prefix prefixexp
?MAKE: -pick add $@ %<
?LINT:define prefixup
?S:prefixup:
?S: This shell variable is used internally by Configure to reset
?S: the leading
 installation prefix correctly when $prefix uses
?S: ~name expansion.
?S:  set dflt
?S:  eval $prefixup
?S: That will set $dflt to $prefix/dir if it was $prefixexp/dir and
?S: $prefix differs from $prefixexp.
?S:.
?V:prefixup
: set the prefixup variable, to restore leading tilda escape
prefixup='case "$prefixexp" in
"$prefix") ;;
*) eval "$1=\`echo \$$1 | sed \"s,^$prefixexp,$prefix,\"\`";;
```

```
esac'

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Prefixup.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: sunscanf.U,v 3.0 1993/08/18 12:09:54 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sunscanf.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:sunscanf: cat rm Compile Myread test Setvar
?MAKE: -pick add $@ %<
?S:sunscanf:
?S: This variable is set if this system runs with the Sun version
?S: of scanf.
?S:.
?C:SUNSCANF:
?C: This variable is set if this system runs with the Sun version
?C: of scanf.
?C:.
?H:#$sunscanf SUNSCANF  /**/
?H:.
?LINT:set sunscanf
?F:!scanf
: check to see what
 kinda scanf your using.
echo " "
echo "Checking to see what flavor of scanf you have..." >&4
$cat >scanf.c <<'EOCP'
int main()
{
 float value;

 sscanf("4.5","%g",&value);
 printf("%d\n", value == 4.5);
}
EOCP
```

```
set scanf
if eval $compile_ok; then
 if $test `./scanf` = 0; then
  echo "Hmm.. seems you are not running the USG flavor.."
  val="$undef"
 else
  echo "Uh... you are running the USG flavor of scanf."
  val="$define"
 fi
else
 echo "(I can't seem to compile the test program... Guessing)"
 val="$undef"
fi
set sunscanf
eval $setvar
$rm -f scanf*
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/sunscanf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_normsig.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_normsig.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:37:03  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:14:48  ram
?RCS: patch36: call ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_normsig jobslib: test Setvar Guess _a
?MAKE: -pick add $@ %<
?S:d_normsig:
?S: This variable conditionally
 defines the NORMSIG symbol, which
?S: indicates to the C program that the normal signal handling routines
```

```
?S: should be used, as opposed to the ones in 4.1bsd (sigset, etc.).
?S:.
?S:jobslib:
?S: This variable holds the argument to be passed to the loader to include
?S: the strange signal handling routines from 4.1bsd.  On systems that
?S: have NORMSIG defined this variable is null.
?S:.
?C:NORMSIG:
?C: This symbol, if defined, indicates that normal signal handling routines
?C: should be used, as opposed to the ones in 4.1bsd (sigset, etc.).
?C:.
?H:#$d_normsig NORMSIG  /**/
?H:.
?LINT:set d_normsig
: see if we need -ljobs and if we have sigset, etc.
echo " "
if $test -r /usr/lib/libjobs$_a || $test -r /usr/local/lib/libjobs$_a ; then
 echo "Jobs library found." >&4
 val="$undef"
 jobslib='-ljobs'
else
 if ./bsd; then
  echo "No jobs library found. (I suppose this is at least 4.2...)" >&4
 else
  echo "No jobs library found. (That's okay, we all have our faults.)" >&4
 fi
 val="$define"
 jobslib=''
fi
set
 d_normsig
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_normsig.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:Assert: cat
```

```
?MAKE: -pick add $@ %<
?F:./static_assert.h
: static assertion checking include file
?X:
?X: C programs can include this file to perform STATIC_ASSERT() checks
?X: which are done at compile-time and cause the compilation to fail when
?X: the expression is false.
?X:
?X: It is sufficient to compile with: $cc -c $ccflags try.c
?X: There is no need to link the file to spot the assertion failure.
?X:
$cat >static_assert.h <<'EOC'
#define STATIC_ASSERT(expr) \
 do { switch (0) { case ((expr) ? 1 : 0): case 0: break; } }
 while(0)
EOC
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Assert.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_sendmsg: Inlibc
?MAKE: -pick add $@ %<
?S:d_sendmsg:
?S: This variable conditionally defines the HAS_SENDMSG symbol, which
?S: indicates to the C program that the sendmsg() routine is available.
?S:.
?C:HAS_SENDMSG:
?C: This symbol, if defined, indicates that the sendmsg routine is
?C: available to send structured socket messages.
?C:.
?H:#$d_sendmsg HAS_SENDMSG  /**/
?H:.
?LINT:set d_sendmsg
: see if sendmsg exists
set sendmsg d_sendmsg
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/perl/d_sendmsg.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: charsize.U,v 3.0.1.1 1994/10/29 16:07:13 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: charsize.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:07:13  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:34  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:charsize charbits: cat rm_try Myread Compile run
?MAKE: -pick add $@ %<
?S:charsize:
?S: This variable contains the value of the CHARSIZE symbol, which
?S: indicates to the C program how many bytes there are in a character.
?S:.
?S:charbits:
?S: This
 variable contains the value of the CHARBITS symbol, which
?S: indicates to the C program how many bits there are in a character.
?S:.
?C:CHARSIZE:
?C: This symbol contains the size of a char, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?C:CHARBITS:
?C: This symbol contains the size of a char, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define CHARSIZE $charsize  /**/
?H:#define CHARBITS $charbits  /**/
?H:.
?F:!try
: length of character in bytes. Is always 1, otherwise it is not C
: This used to be a test using sizeof
charsize=1

: Check for the number of bits in a character
```

```
case "$charbits" in
") echo "Checking how long a character is (in bits)..." >&4
 $cat >try.c <<EOCP
#include <stdio.h>
int main ()
{
   int n;
   unsigned char c;
   for (c = 1, n = 0; c; c <<= 1, n++) ;
   printf ("%d\n", n);
   return (0);
   }
EOCP
 set try
 if eval $compile_ok; then
  dflt=`$run ./try`
 else
  dflt='8'
  echo "(I
 can't seem to compile the test program.  Guessing...)"
 fi
 ;;
*)
 dflt="$charbits"
 ;;
esac
rp="What is the length of a character (in bits)?"
. ./myread
charbits="$ans"
$rm_try
case "$charbits" in
8) ;;
*) cat >&4 << EOM
Your system has an unsigned character size of $charbits bits, which
is rather unusual (normally it is 8 bits).  Perl likely will not work
correctly on your system, with subtle bugs in various places.
EOM
 rp='Do you really want to continue?'
 dflt='n'
 . ./myread
 case "$ans" in
  [yY]) echo >&4 "Okay, continuing." ;;
  *) exit 1    ;;
 esac
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/compline/charsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_cuserid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_cuserid.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:25  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_cuserid: Inlibc
?MAKE: -pick add $@ %<
?S:d_cuserid:
?S: This variable conditionally defines the HAS_CUSERID symbol, which
?S: indicates to the C program that the cuserid() routine is available
?S: to get character login names.
?S:.
?C:HAS_CUSERID :
?C: This symbol,
 if defined, indicates that the cuserid routine is
?C: available to get character login names.
?C:.
?H:#$d_cuserid HAS_CUSERID  /**/
?H:.
?LINT:set d_cuserid
: see if cuserid exists
set cuserid d_cuserid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_cuserid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
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```

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:ptrsize: cat rm_try Myread +cc +ccflags
?MAKE: -pick add $@ %<
?S:ptrsize:
?S: This variable contains the value of the PTRSIZE symbol, which
?S: indicates to the C program how many bytes there are in a pointer.
?S:.
?C:PTRSIZE:
?C: This symbol contains the size of a pointer, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define PTRSIZE $ptrsize  /**/
?H:.
?F:!try
: check for length of pointer
echo " "
case "$ptrsize" in
")
 echo "Checking to see how big your pointers are..."
 >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
 printf("%d\n", sizeof(char *));
}
EOCP
 if $cc $ccflags -o try try.c >/dev/null 2>&1 ; then
  dflt=`./try`
 else
  dflt='4'
  echo "(I can't seem to compile the test program.  Guessing...)"
 fi
 ;;
*)
 dflt="$ptrsize"
 ;;
esac
rp="What is the size of a pointer (in bytes)?"
. ./myread
ptrsize="$ans"
$rm_try
```

Found in path(s):

* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/ptrsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vaproto.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Orginal Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: vaproto.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:17:16  ram
?RCS: patch16: definition of _V now appears only when needed
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:59  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:vaproto: prototype i_stdarg Setvar
?MAKE: -pick add $@ %<
?S:vaproto:
?S: This variable conditionally defines CAN_VAPROTO on systems supporting
?S: prototype
 declaration of functions with a variable number of
?S: arguments. See also prototype.
?S:.
?C:CAN_VAPROTO ~ %<:
?C: This variable is defined on systems supporting prototype declaration
?C: of functions with a variable number of arguments.
?C:.
?C:_V:
?C: This macro is used to declare function parameters in prototypes for
?C: functions with a variable number of parameters. Use double parentheses.
?C: For example:
?C:
?C:  int printf _V((char *fmt, ...));
?C:
?C: Remember to use the plain simple _() macro when declaring a function
?C: with no variable number of arguments, since it might be possible to
?C: have a non-effect _V() macro and still get prototypes via _().
?C:.
?H:?%<:#$vaproto CAN_VAPROTO /**/
?H:?_V:#ifdef CAN_VAPROTO
```

```
?H:?_V:#define _V(args) args
?H:?_V:#else
?H:?_V:#define _V(args) ()
?H:?_V:#endif
?H:.
?LINT:set vaproto
: see if prototypes support variable argument declarations
echo " "
case "$prototype$i_stdarg" in
$define$define)
 echo "It appears we'll be able
 to prototype varargs functions." >&4
 val="$define"
 ;;
*)
 echo "Too bad... We won't be using prototyped varargs functions..." >&4
 val="$undef"
 ;;
esac
set vaproto
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/vaproto.U
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```
?RCS: $Id: d_pause.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_pause.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:09:54  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_pause: Inlibc
?MAKE: -pick add $@ %<
?S:d_pause:
?S: This variable conditionally defines the HAS_PAUSE symbol, which
?S: indicates to the C program that the pause() routine is available
```

```
?S: to suspend a process until a signal is received.
?S:.
?C:HAS_PAUSE :
?C: This symbol,
 if defined, indicates that the pause routine is
?C: available to suspend a process until a signal is received.
?C:.
?H:#$d_pause HAS_PAUSE  /**/
?H:.
?LINT:set d_pause
: see if pause exists
set pause d_pause
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_pause.U
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```
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?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_copysignl: Inlibc
?MAKE: -pick add $@ %<
?S:d_copysignl:
?S: This variable conditionally defines the HAS_COPYSIGNL symbol, which
?S: indicates to the C program that the copysignl() routine is available.
?S: If aintl is also present we can emulate modfl.
?S:.
?C:HAS_COPYSIGNL:
?C: This symbol, if defined, indicates that the copysignl routine is
?C: available.  If aintl is also present we can emulate modfl.
?C:.
?H:#$d_copysignl HAS_COPYSIGNL  /**/
?H:.
?LINT:set d_copysignl
: see if copysignl exists
set copysignl d_copysignl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_copysignl.U

No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_statvfs d_fstatvfs: Inlibc
?MAKE: -pick add $@ %<
?S:d_statvfs:
?S: This variable conditionally defines the HAS_STATVFS symbol, which
?S: indicates to the C program that the statvfs() routine is available.
?S:.
?S:d_fstatvfs:
?S: This variable conditionally defines the HAS_FSTATVFS symbol, which
?S: indicates to the C program that the fstatvfs() routine is available.
?S:.
?C:HAS_STATVFS:
?C: This symbol, if defined, indicates that the statvfs routine is
?C: available to stat filesystems by filenames.
?C:.
?C:HAS_FSTATVFS:
?C: This symbol, if defined, indicates that the fstatvfs routine is
?C: available to stat filesystems by file descriptors.
?C:.
?H:#$d_statvfs HAS_STATVFS  /**/
?H:#$d_fstatvfs
 HAS_FSTATVFS  /**/
?H:.
?LINT:set d_statvfs
?LINT:set d_fstatvfs
: see if statvfs exists
set statvfs d_statvfs
eval $inlibc

: see if fstatvfs exists
set fstatvfs d_fstatvfs
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_statvfs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Unix.U,v 3.0.1.1 1997/02/28 15:20:06 ram Exp $
?RCS:
```

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Unix.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:20:06  ram
?RCS: patch61: created
?RCS:
?X:
?X: The purpose of this unit is to define things that are common across all
?X: known UNIX platforms. If Configure is ported/used on a non-UNIX
?X: environment, then some of the following variables can be redefined in hint
?X: files.
?X:
?MAKE:Unix _exe _a _o exe_ext lib_ext obj_ext path_sep \
 firstmakefile archobjs rm_try: Oldconfig rm
?MAKE: -pick add $@ %<
?S:_exe:
?S: This
 variable defines the extension used for executable files.
?S: DJGPP, Cygwin and OS/2 use '.exe'.  Stratus VOS uses '.pm'.
?S: On operating systems which do not require a specific extension
?S: for executable files, this variable is empty.
?S:.
?S:_a:
?S: This variable defines the extension used for ordinary library files.
?S: For unix, it is '.a'.  The '.' is included.  Other possible
?S: values include '.lib'.
?S:.
?S:_o:
?S: This variable defines the extension used for object files.
?S: For unix, it is '.o'.  The '.' is included.  Other possible
?S: values include '.obj'.
?S:.
?S:firstmakefile:
?S: This variable defines the first file searched by make.  On unix,
?S: it is makefile (then Makefile).  On case-insensitive systems,
?S: it might be something else.  This is only used to deal with
?S: convoluted make depend tricks.
?S:.
?S:archobjs:
?S: This variable defines any additional objects that must be linked
?S: in with the program on this architecture.  On unix, it is usually
?S: empty.
```

```
  It is typically used to include emulations of unix calls
?S: or other facilities.  For perl on OS/2, for example, this would
?S: include os2/os2.obj.
?S:.
?X: Metaconfig's Obsolete symbol stuff is too over-eager.  In the
?X: perl sources, it picks up things like "P" and "FLOCK" that are
?X: not used in the way Metaconfig thinks they are.  Thus I can't
?X: just declare these obsolete and then run metaconfig -o.
?X: Instead, I'll just handle them here.
?X: Sadly, history has conspired to give us a web of definitions;
?X: this could have been much simpler.
?S:lib_ext:
?S: This is an old synonym for _a.
?S:.
?S:exe_ext:
?S: This is an old synonym for _exe.
?S:.
?S:obj_ext:
?S: This is an old synonym for _o.
?S:.
?S:path_sep:
?S: This is an old synonym for p_ in Head.U, the character
?S: used to separate elements in the command shell search PATH.
?S:.
?S:rm_try:
?S: This is a cleanup variable for try test programs.
?S: Internal Configure use only.
?S:.
?LINT: change p_
?INIT::
 Trailing extension.  Override this in a hint file, if needed.
?INIT:: Extra object files, if any, needed on this platform.
?INIT:archobjs="
: Define several unixisms.
: Hints files or command line option can be used to override them.
: The convoluted testing is in case hints files set either the old
: or the new name.
case "$_exe" in
") case "$exe_ext" in
 ") ;;
 *) _exe="$exe_ext" ;;
 esac
 ;;
esac
case "$_a" in
") case "$lib_ext" in
   ") _a='.a';;
 *) _a="$lib_ext" ;;
```

```
 esac
 ;;
esac
case "$_o" in
") case "$obj_ext" in
 ") _o='.o';;
 *) _o="$obj_ext";;
 esac
 ;;
esac
case "$p_" in
") case "$path_sep" in
 ") p_=':';;
 *) p_="$path_sep";;
 esac
 ;;
esac
exe_ext=$_exe
lib_ext=$_a
obj_ext=$_o
path_sep=$p_

rm_try="$rm -f try try$_exe a.out .out try.[cho] try.$_o core core.try* try.core*"

@if firstmakefile
: Which makefile gets called first.  This is used by make depend.
case "$firstmakefile" in
") firstmakefile='makefile';;
esac

@end
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Unix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
```

```
?RCS:
?RCS: $Log: d_closedir.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:31:26  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:11:18  ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:21  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_closedir d_void_closedir: Inlibc i_dirent i_sysdir i_sysndir \
 cc ccflags ldflags libs Setvar rm
?MAKE: -pick
 add $@ %<
?S:d_closedir:
?S: This variable conditionally defines HAS_CLOSEDIR if closedir() is
?S: available.
?S:.
?C:HAS_CLOSEDIR:
?C: This symbol, if defined, indicates that the closedir() routine is
?C: available.
?C:.
?H:#$d_closedir HAS_CLOSEDIR  /**/
?H:.
?S:d_void_closedir:
?S: This variable conditionally defines VOID_CLOSEDIR if closedir()
?S: does not return a value.
?S:.
?C:VOID_CLOSEDIR:
?C: This symbol, if defined, indicates that the closedir() routine
?C: does not return a value.
?C:.
?H:#$d_void_closedir VOID_CLOSEDIR  /**/
?H:.
?F:!closedir
?LINT:set d_closedir d_void_closedir
: see if closedir exists
set closedir d_closedir
eval $inlibc

@if VOID_CLOSEDIR || d_void_closedir
?X: The following contortions are designed so we can call closedir()
?X: and check whether it returns a value.  The contortions are designed
?X: to portably pick up the correct directory header, for those
?X: systems that support various mutually incompatible directory functions.
?X: This
```

```
 is from perl5's perl.h
case "$d_closedir" in
"$define")
 echo " "
 echo "Checking whether closedir() returns a status..." >&4
 cat > closedir.c <<EOM
#$i_dirent I_DIRENT  /**/
#$i_sysdir I_SYS_DIR  /**/
#$i_sysndir I_SYS_NDIR  /**/

#if defined(I_DIRENT)
#include <dirent.h>
#if defined(NeXT) && defined(I_SYS_DIR) /* NeXT needs dirent + sys/dir.h */
#include <sys/dir.h>
#endif
#else
#ifdef I_SYS_NDIR
#include <sys/ndir.h>
#else
#ifdef I_SYS_DIR
#ifdef hp9000s500
#include <ndir.h> /* may be wrong in the future */
#else
#include <sys/dir.h>
#endif
#endif
#endif
#endif
int main() { return closedir(opendir(".")); }
EOM
 if $cc $ccflags $ldflags -o closedir closedir.c $libs > /dev/null 2>&1; then
  if ./closedir > /dev/null 2>&1 ; then
   echo "Yes, it does."
   val="$undef"
  else
   echo "No, it doesn't."
   val="$define"
  fi
 else
  echo "(I can't seem to compile the test program--assuming it doesn't)"
  val="$define"
 fi
 ;;
*)
 val="$undef";
 ;;
esac
set d_void_closedir
```

```
eval $setvar
$rm
 -f closedir*
@end
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_closedir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: nlist_pfx.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: nlist_pfx.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:26:18  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:25  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:nlist_pfx nlist_fnd: cat test Myread Oldconfig libnlist \
 +cc +ccflags
?MAKE: -pick add $@ %<
?S:nlist_pfx:
?S: This variable holds any characters which precede the symbol name
?S: when doing an nlist search.
?S:.
?S:nlist_fnd:
?S: This
 variable holds the member of the nlist structure which is
?S: nonzero if an nlist search succeeds.  Presently, it is always "n_value".
?S:.
?C:NLIST_PREFIX:
?C: This manifest constant holds the string of characters which should
?C: precede the symbol name when doing an nlist search.
?C:.
?C:NLIST_FOUND:
?C: This manifest constant holds the member of the nlist structure which
?C: is nonzero if an nlist search succeeds.
?C:.
?H:#define NLIST_PREFIX $nlist_pfx /**/
```

```
?H:#define NLIST_FOUND $nlist_fnd /**/
?H:.
?F:!nlisttest
?T:nlist_loc
: Nose around for nlist stuff
echo " "
echo "Checking out nlist stuff..." >&4
$cat >nlisttest.c <<'EOCP'
#include <stdio.h>
#include <nlist.h>

main(argc, argv)
int argc;
char **argv;
{
 int (*loc)();
 extern int hereIam();
 static struct nlist nl[] = {
  { "IamNotFound", 0 },
  { "hereIam", 0 },
  { "_hereIam", 0 },
  { ".hereIam", 0 },
  { "", 0 }
 };

 loc = hereIam;

 if(argc == 1) {
  printf("%ld\n", loc);}
 else {
  int i;
  int rc;

  if(nlist("./nlisttest",
 nl) == -1) exit(-1);
  i = argv[1][0] - '0';
  printf("%d %d %d\n", nl[i].n_name, nl[i].n_type, nl[i].n_value);
  }
 exit(0);}

int hereIam() {

 return;}
EOCP
nlist_fnd=n_value
if $cc $ccflags -o nlisttest nlisttest.c $libnlist >/dev/null 2>&1 ; then
 set `./nlisttest`
 nlist_loc=$1
```

```
 set `./nlisttest 0`
 if $test "$3" = "0" ; then
  echo "$nlist_fnd is 0 if nlist() fails, as I expected."
 else
  $cat <<EOM
Hello, Jim.  We have just discovered that $nlist_fnd was nonzero on an
nlist() lookup failure!  Your mission, should you choose to accept it, is to
edit either config.sh (to provide a Good value for nlist_fnd) or The Code
(to find an alternative to NLIST_FOUND), and reporting the full details of
your success to the MetaConfig Police.  Of course, should you fail...
EOM
  nlist_fnd="/* Bletch! */ */"
 fi

 set `./nlisttest 1`
 if $test "$nlist_loc" = "$3" ; then
  echo "Symbols are stored with no initial characters."
  nlist_pfx=
 else
  set `./nlisttest 2`
  if
 $test "$nlist_loc" = "$3" ; then
   echo "Symbols are stored with an initial underscore."
   nlist_pfx=_
  else
   set `./nlisttest 3`
   if $test "$nlist_loc" = "$3" ; then
    echo "Symbols are stored with an initial dot."
    nlist_pfx=.
   else
    $cat <<EOM
I can't figure out the symbol prefix!
You get to edit config.sh and fix 'nlist_pfx' (Configure will let you do this
at the end of its configuration questions), or config.h and fix the value of
the NLIST_PREFIX symbol.
EOM
    nlist_pfx="/* Bletch! */ */"
   fi
  fi
 fi
else
 $cat <<EOM
I can't get the nlist test program working!
You get to edit config.sh and fix 'nlist_pfx' (Configure will let you do this
at the end of its configuration questions) and 'nlist_fnd', or config.h and
fix the value of the NLIST_PREFIX and NLIST_FOUND symbols.
EOM
```

```
 nlist_pfx="/* Bletch! */ */"
 nlist_fnd="/* Bletch! */ */"
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/nlist_pfx.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_thread_local perl_thread_local: cat echo Setvar Compile run rm_try hint
?MAKE: -pick add $@ %<
?S:d_thread_local:
?S: This variable conditionally defines the PERL_THREAD_LOCAL symbol. In
?S: turn that gives a linkage specification for thread-local storage.
?S:.
?S:perl_thread_local:
?S: This variable gives the value for the PERL_THREAD_LOCAL symbol (when
?S: defined), which gives a linkage specification for thread-local storage.
?S:.
?C:PERL_THREAD_LOCAL:
?C: This symbol, if defined, gives a linkage specification for thread-local
?C: storage. For example, for a C11 compiler this will be _Thread_local.
?C: Beware, some compilers are sensitive to the C language standard they are
?C: told
 to parse. For example, suncc defaults to C11, so our probe will
?C: report that _Thread_local can be used. However, if the -std=c99 is later
?C: added to the compiler flags, then _Thread_local will become a syntax
?C: error. Hence it is important for these flags to be consistent between
?C: probing and use.
?C:.
?H:#$d_thread_local PERL_THREAD_LOCAL $perl_thread_local /**/
?H:.
?T:thread_local
?F:!try
?LINT:set d_thread_local
: see what flavor, if any, of thread local storage is supported
echo " "
echo "Checking to see if your system supports C11 thread local storage..."
$cat > try.c <<'EOCP'
#include <stdio.h>
#include <stdlib.h>
```

```
#include <pthread.h>

static int plus_one = 1;
static int minus_one = -1;

PROBE_MACRO int *minion;

int callback (const void *a, const void *b) {
  int val_a = *minion * *(const int *)a;
  int val_b = *minion * *(const int *)b;
  return val_a < val_b ? -1 : val_a > val_b;
}

#define SIZE 8

void *thread_function(void *arg) {
  /* thread local variables
 should start zeroed in each thread. */
  if (minion != NULL) {
      fprintf(stderr, "__thread variable started with %p, should be NULL\n",
              minion);
      exit(2);
  }
  minion = &minus_one;

  int array[SIZE];
  unsigned int i;
  for (i = 0; i < SIZE; ++i) {
      /* "Hash randomisation" - this array isn't in sorted order: */
      array[i ^ 5] = i * i;
  }

  qsort(array, SIZE, sizeof(int), callback);

  int bad = 0;
  for (i = 0; i < SIZE; ++i) {
      int want = (SIZE - 1 - i) * (SIZE - 1 - i);
      int have = array[i];
      if (want != have) {
          ++bad;
          fprintf(stderr, "array[%u] - want %i, have %i\n", i, want, have);
      }
  }
  if (bad)
      exit(3);

  return NULL;
}
```

```
int main(int argc, char **argv) {
  if (minion != NULL) {
      fprintf(stderr, "__thread variable started with %p, should be NULL\n",
              minion);
      exit(4);
  }

  minion = &plus_one;

  pthread_t
 tid;
  int result = pthread_create(&tid, NULL, thread_function, NULL);
  if (result) {
      fprintf(stderr, "pthread_create failed (%d)\n", result);
      exit(5);
  }

  result = pthread_join(tid, NULL);
  if (result) {
      fprintf(stderr, "pthread_join failed (%d)\n", result);
      exit(6);
  }

  if (minion == NULL) {
      fprintf(stderr, "__thread variable should not be NULL\n");
      exit(7);
  }
  if (!(minion == &plus_one && *minion == 1)) {
      fprintf(stderr, "__thread variable should be %d @ %p, not %d @ %p\n",
              1, &plus_one, *minion, minion);
      exit(8);
  }

  return 0;
}
EOCP

# Respect a hint (or previous) value for perl_thread_local, if there is one.
case "$perl_thread_local" in
") # Check the various possibilities, and break out on success.
 for thread_local in _Thread_local __thread; do
  set try -DPROBE_MACRO=$thread_local
  if eval $compile && $run ./try; then
   $echo "Your compiler supports $thread_local."
 >&4
  val=$define
  perl_thread_local="$thread_local";
```

```
  break;
  fi
  $echo "Your compiler does NOT support $thread_local." >&4
  val="$undef"
 done
 ;;
*thread*|*Thread*) # Some variant of thread local exists.
 echo "Keeping your $hint value of $perl_thread_local."
 val=$define
 ;;
*)  # Unrecognized previous value -- blindly trust the supplied
 # value and hope it makes sense.  Use old value for
 # d_thread_local, if there is one.
 echo "Keeping your $hint value of $perl_thread_local."
 case "$d_thread_local" in
  ") val=$define ;;
  *)  val=$d_thread_local ;;
 esac
 ;;
esac
set d_thread_local
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_thread_local.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_db.U,v $
?RCS: Revision 3.0.1.3  1995/07/25  14:10:22  ram
?RCS: patch56: conditionally use const in test programs (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1995/05/12  12:14:42  ram
?RCS: patch54: extended for more intimate DB probing (ADO)
?RCS:
```

```
?RCS: Revision 3.0.1.1  1994/08/29  16:21:50  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:i_db db_hashtype db_prefixtype: Inhdr +cc +ccflags rm_try contains cat \
  d_const
?MAKE: -pick
 add $@ %<
?S:i_db:
?S: This variable conditionally defines the I_DB symbol, and indicates
?S: whether a C program may include Berkeley's DB include file <db.h>.
?S:.
?S:db_hashtype:
?S: This variable contains the type of the hash structure element
?S: in the <db.h> header file.  In older versions of DB, it was
?S: int, while in newer ones it is u_int32_t.
?S:.
?S:db_prefixtype:
?S: This variable contains the type of the prefix structure element
?S: in the <db.h> header file.  In older versions of DB, it was
?S: int, while in newer ones it is size_t.
?S:.
?C:I_DB:
?C: This symbol, if defined, indicates to the C program that it should
?C: include Berkeley's DB include file <db.h>.
?C:.
?C:DB_Prefix_t:
?C: This symbol contains the type of the prefix structure element
?C: in the <db.h> header file.  In older versions of DB, it was
?C: int, while in newer ones it is u_int32_t.
?C:.
?C:DB_Hash_t:
?C: This symbol contains the type of the prefix structure element
?C: in the <db.h> header
 file.  In older versions of DB, it was
?C: int, while in newer ones it is size_t.
?C:.
?H:#$i_db I_DB  /**/
?H:#define DB_Hash_t $db_hashtype  /**/
?H:#define DB_Prefix_t $db_prefixtype   /**/
?H:.
?LINT:set i_db
: see if this is a db.h system
set db.h i_db
eval $inhdr

@if DB_Hash_t
case "$i_db" in
define)
```

```
 : Check the return type needed for hash
 echo " "
 echo "Checking return type needed for hash for Berkeley DB ..." >&4
 $cat >try.c <<EOCP
#$d_const HASCONST
#ifndef HASCONST
#define const
#endif
#include <sys/types.h>
#include <db.h>
u_int32_t hash_cb (ptr, size)
const void *ptr;
size_t size;
{
}
HASHINFO info;
int main()
{
 info.hash = hash_cb;
}
EOCP
 if $cc $ccflags -c try.c >try.out 2>&1 ; then
  if $contains warning try.out >>/dev/null 2>&1 ; then
   db_hashtype='int'
  else
   db_hashtype='u_int32_t'
  fi
 else
  echo "I can't seem to compile the test program." >&4
  db_hashtype=int
 fi
 $rm_try
 echo "Your version of Berkeley DB uses $db_hashtype for hash."
 ;;
*) db_hashtype=int
 ;;
esac

@end
@if
 DB_Prefix_t
case "$i_db" in
define)
 : Check the return type needed for prefix
 echo " "
 echo "Checking return type needed for prefix for Berkeley DB ..." >&4
 cat >try.c <<EOCP
#$d_const HASCONST
```

```
#ifndef HASCONST
#define const
#endif
#include <sys/types.h>
#include <db.h>
size_t prefix_cb (key1, key2)
const DBT *key1;
const DBT *key2;
{
}
BTREEINFO info;
int main()
{
 info.prefix = prefix_cb;
}
EOCP
 if $cc $ccflags -c try.c  >try.out 2>&1 ; then
  if $contains warning try.out >>/dev/null 2>&1 ; then
   db_prefixtype='int'
  else
   db_prefixtype='size_t'
  fi
 else
  echo "I can't seem to compile the test program." >&4
  db_prefixtype='int'
 fi
 $rm_try
 echo "Your version of Berkeley DB uses $db_prefixtype for prefix."
 ;;
*) db_prefixtype='int'
 ;;
esac

@end
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_db.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libflex.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libflex.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:57:48  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:07:02  ram
?RCS: patch23: now uses full library path instead of -l notation
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:13:25  ram
?RCS: patch16: un-obsoleted this unit to allow smooth lex/flex compilations
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:59  ram
?RCS: Baseline for dist 3.0 netwide
 release.
?RCS:
?MAKE:libflex: Loc lex libpth _a
?MAKE: -pick add $@ %<
?S:libflex:
?S: This variable contains the argument to pass to the loader in order
?S: to get the flex/lex library routines.  If there is no flex or flex
?S: library, it is null.
?S:.
?T:xxx
: see if we should include -lfl
echo " "
case "$lex" in
*flex)
 xxx=`./loc libfl$_a x $libpth`
 case "$xxx" in
 x)
  echo "No flex library found." >&4
  libflex=''
  ;;
 *)
  echo "flex library found in $xxx." >&4
  libflex="$xxx"
  ;;
 esac
 ;;
*lex)
 xxx=`./loc libl$_a x $libpth`
 case "$xxx" in
 x)
  echo "No lex library found." >&4
  libflex=''
  ;;
 *)
```

```
  echo "lex library found in $xxx." >&4
  libflex="$xxx"
  ;;
 esac
 ;;
*)
echo "You don't seem to have lex or flex, so I won't look for libraries." >&4
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/libflex.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Myinit.U,v $
?RCS: Revision 3.0.1.1  1994/10/31  09:47:29  ram
?RCS: patch44: leading comment states this unit comes before option processing
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: If you want to initialize any default values, copy this unit to your
?X: personal U directory and add the assignments to the end.  This file
?X: is included after variables are initialized but before any old
?X: config.sh file is read in and before
 any Configure switch processing.
?X:
?MAKE:Myinit: Init
?MAKE: -pick add $@ %<
?LINT: nocomment
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Myinit.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: registers.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: registers.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:19:41  ram
?RCS: patch61: removed empty ?LINT lines
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:28:33  ram
?RCS: patch36: call ./Cppsym explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:41  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:registers reg1 reg2 reg3 reg4 reg5 reg6 reg7 reg8 reg9 reg10 reg11 \
 reg12 reg13 reg14 reg15 reg16: awk rm Cppsym
 Myread Oldconfig
?MAKE: -pick add $@ %<
?S:registers:
?S: This variable contains the number of register declarations paid
?S: attention to by the C compiler.
?S:.
?S:reg1:
?S: This variable, along with reg2, reg3, etc. contains the eventual
?S: value for the symbols register1, register2, register3, etc.  It has
?S: either the value "register" or is null.
?S:.
?C:register1:
?C: This symbol, along with register2, register3, etc. is either the word
?C: "register" or null, depending on whether the C compiler pays attention
?C: to this many register declarations.  The intent is that you don't have
?C: to order your register declarations in the order of importance, so you
?C: can freely declare register variables in sub-blocks of code and as
?C: function parameters.  Do not use register<n> more than once per routine.
?C:.
?LINT:describe reg2 reg3 reg4 reg5 reg6 reg7 reg8 reg9 reg10 reg11
?LINT:describe reg12 reg13 reg14 reg15 reg16
?LINT:known register2 register3 register4 register5 register6
 register7
?LINT:known register8 register9 register10 register11 register12 register13
?LINT:known register14 register15 register16
?H:#define register1 $reg1  /**/
```

```
?H:#define register2 $reg2  /**/
?H:#define register3 $reg3  /**/
?H:#define register4 $reg4  /**/
?H:#define register5 $reg5  /**/
?H:#define register6 $reg6  /**/
?H:#define register7 $reg7  /**/
?H:#define register8 $reg8  /**/
?H:#define register9 $reg9  /**/
?H:#define register10 $reg10 /**/
?H:#define register11 $reg11 /**/
?H:#define register12 $reg12 /**/
?H:#define register13 $reg13 /**/
?H:#define register14 $reg14 /**/
?H:#define register15 $reg15 /**/
?H:#define register16 $reg16 /**/
?H:.
?F:!.foo
: see how many register declarations we want to use
case "$registers" in
")
 if ./Cppsym vax; then
  dflt=6
 elif ./Cppsym sun mc68000 mips; then
  dflt=10
 elif ./Cppsym pyr; then
  dflt=14
 elif ./Cppsym ns32000 ns16000; then
  dflt=5
 elif ./Cppsym $smallmach; then
  dflt=3
 else
  : if you have any other numbers
 for me, please send them in
  dflt=6
 fi;;
*) dflt=$registers ;;
esac
?LINT:set reg2 reg3 reg4 reg5 reg6 reg7 reg8 reg9 reg10 reg11
?LINT:set reg12 reg13 reg14 reg15 reg16
cat <<EOM

Different C compilers on different machines pay attention to different numbers
of register declarations.  About how many register declarations in each routine
does your C compiler pay attention to?  (OK to guess)

EOM
rp="Maximum register declarations?"
. ./myread
```

```
registers=$ans
reg1="
$awk "BEGIN { for (i=1; i<=16; i++) printf \"reg%d="\n\", i}" \
 </dev/null >.foo
. ./.foo
$awk "BEGIN { for (i=1; i<=$registers; i++) printf \"reg%d=register\n\", i}" \
 </dev/null >.foo
. ./.foo
$rm -f .foo
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/registers.U
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```
?RCS: $Id$
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isnan: Inlibc cat Compile rm_try Setvar
?MAKE: -pick add $@ %<
?S:d_isnan:
?S: This variable conditionally defines the HAS_ISNAN symbol, which
?S: indicates to the C program that the isnan() routine is available.
?S:.
?C:HAS_ISNAN:
?C: This symbol, if defined, indicates that the isnan routine is
?C: available to check whether a double is a NaN.
?C:.
?H:#$d_isnan HAS_ISNAN  /**/
?H:.
?LINT:set d_isnan
: check for isnan
echo "Checking to see if you have isnan..." >&4
$cat >try.c <<EOCP
#include <math.h>
int main() { return isnan(0.0); }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have isnan."
else
 val="$undef"
 echo "You do not have isnan."
```

```
fi
$rm_try
set d_isnan
eval $setvar
```

Found
 in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_isnan.U
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```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_finite: Inlibc
?MAKE: -pick add $@ %<
?S:d_finite:
?S: This variable conditionally defines the HAS_FINITE symbol, which
?S: indicates to the C program that the finite() routine is available.
?S:.
?C:HAS_FINITE:
?C: This symbol, if defined, indicates that the finite routine is
?C: available to check whether a double is finite (non-infinity non-NaN).
?C:.
?H:#$d_finite HAS_FINITE  /**/
?H:.
?LINT:set d_finite
: see if finite exists
set finite d_finite
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_finite.U
No license file was found, but licenses were detected in source scan.

```
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```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_portable.U,v $
?RCS: Revision 3.0.1.2  1995/01/11  15:28:52  ram
?RCS: patch45: executable path stripping moved to the end in Config_sh.U
?RCS:
?RCS: Revision 3.0.1.1  1993/12/15  08:21:17  ram
?RCS: patch15: did not strip variables properly when needed
?RCS: patch15: now also strips down variables from trylist
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The Loc unit is wanted to get the definition of all the locating variables.
?X:
?MAKE:d_portable:
 cat Loc Myread Oldconfig
?MAKE: -pick add $@ %<
?S:d_portable:
?S: This variable conditionally defines the PORTABLE symbol, which
?S: indicates to the C program that it should not assume that it is
?S: running on the machine it was compiled on.
?S:.
?C:PORTABLE:
?C: This symbol, if defined, indicates to the C program that it should
?C: not assume that it is running on the machine it was compiled on.
?C: The program should be prepared to look up the host name, translate
?C: generic filenames, use PATH, etc.
?C:.
?H:#$d_portable PORTABLE /**/
?H:.
?D:d_portable="
: decide how portable to be
case "$d_portable" in
"$define") dflt=y;;
*) dflt=n;;
esac
$cat <<'EOH'

I can set things up so that your shell scripts and binaries are more portable,
at what may be a noticable cost in performance.  In particular, if you
ask to be portable, the following happens:

   1) Shell scripts will rely on the PATH variable rather than using
 the paths derived above.
   2) ~username
```

```
 interpretations will be done at run time rather than
 by Configure.
@if PHOSTNAME
    3) The system name will be determined at run time, if at all possible.
@end

EOH
rp="Do you expect to run these scripts and binaries on multiple machines?"
. ./myread
case "$ans" in
 y*) d_portable="$define"
?X:
?X: Paths will be stripped down (/usr/bin/vi -> vi) in Config_sh.U if needed.
?X:
 ;;
 *)  d_portable="$undef" ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_portable.U
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```
?RCS: $Id: ssizetype.U,v 3.0.1.3 1997/02/28 16:24:21 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: ssizetype.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:24:21  ram
?RCS: patch61: integrated perl5 concerns for mis-configured sfio
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:30:28  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:33:06  ram
?RCS: patch32: created
 by ADO
?RCS:
?MAKE:ssizetype: Myread Typedef sizetype cat rm_try Compile run i_stdlib
```

```
?MAKE: -pick add $@ %<
?S:ssizetype:
?S: This variable defines ssizetype to be something like ssize_t,
?S: long or int.  It is used by functions that return a count
?S: of bytes or an error condition.  It must be a signed type.
?S: We will pick a type such that sizeof(SSize_t) == sizeof(Size_t).
?S:.
?C:SSize_t:
?C: This symbol holds the type used by functions that return
?C: a count of bytes or an error condition.  It must be a signed type.
?C: It is usually ssize_t, but may be long or int, etc.
?C: It may be necessary to include <sys/types.h> or <unistd.h>
?C: to get any typedef'ed information.
?C: We will pick a type such that sizeof(SSize_t) == sizeof(Size_t).
?C:.
?H:#define SSize_t $ssizetype /* signed count of bytes */
?H:.
?F:!try
: see what type is used for signed size_t
set ssize_t ssizetype int stdio.h sys/types.h
eval $typedef
dflt="$ssizetype"
?X: Now check out whether sizeof(SSize_t)
 == sizeof(Size_t)
$cat > try.c <<EOM
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <sys/types.h>
#define Size_t $sizetype
#define SSize_t $dflt
int main()
{
 if (sizeof(Size_t) == sizeof(SSize_t))
  printf("$dflt\n");
 else if (sizeof(Size_t) == sizeof(int))
  printf("int\n");
 else
  printf("long\n");
 exit(0);
}
EOM
echo " "
set try
if eval $compile_ok && $run ./try > /dev/null; then
 ssizetype=`$run ./try`
```

```
 echo "I'll be using $ssizetype for functions returning a byte count." >&4
else
 $cat >&4 <<EOM
Help! I can't compile and run the ssize_t test program: please enlighten me!
(This is probably a misconfiguration in your system or libraries, and
you really ought to fix it.  Still, I'll try anyway.)

I need a type that is the same size as $sizetype, but is guaranteed to
be signed.  Common values are ssize_t, int and long.

EOM
 rp="What signed type is the same size as $sizetype?"
 . ./myread
 ssizetype="$ans"
fi
$rm_try
```

Found in path(s):
*
/opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/ssizetype.U
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```
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?RCS:
?MAKE:d_isinfl: Inlibc
?MAKE: -pick add $@ %<
?S:d_isinfl:
?S: This variable conditionally defines the HAS_ISINFL symbol, which
?S: indicates to the C program that the isinfl() routine is available.
?S:.
?C:HAS_ISINFL:
?C: This symbol, if defined, indicates that the isinfl routine is
?C: available to check whether a long double is an infinity.
?C:.
?H:#$d_isinfl HAS_ISINFL  /**/
?H:.
?LINT:set d_isinfl
: see if isinfl exists
set isinfl d_isinfl
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_isinfl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_values.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_values.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:48:34  ram
?RCS: patch61: created
?RCS:
?MAKE:i_values: Inhdr
?MAKE: -pick add $@ %<
?S:i_values:
?S: This variable conditionally defines the I_VALUES symbol, and indicates
?S: whether a C program may include <values.h> to get symbols like MAXLONG
?S: and friends.
?S:.
?C:I_VALUES:
?C: This symbol, if defined, indicates to the C program that it should
?C: include
 <values.h> to get definition of symbols like MINFLOAT or
?C: MAXLONG, i.e. machine dependant limitations.  Probably, you
?C: should use <limits.h> instead, if it is available.
?C:.
?H:#$i_values I_VALUES  /**/
?H:.
?LINT:set i_values
: see if this is a values.h system
set values.h i_values
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_values.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_dirent.U,v $
?RCS: Revision 3.0.1.4  1994/10/29  16:20:01  ram
?RCS: patch36: failed scanning for 'd_namlen' with missing <dirent.h> (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:01:25  ram
?RCS: patch30: added direntrytype for hints, merely for NeXT (ADO)
?RCS: patch30: now checks for both struct dirent and direct (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:22:37  ram
?RCS: patch27: new variable direntrytype for proper type setting (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24
 14:11:15  ram
?RCS: patch16: added new Direntry_t pseudo-type for directory entries
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit looks whether there is a dirent system or not
?X:
?MAKE:i_dirent d_dirnamlen direntrytype: test contains Setvar \
 Myread Findhdr cppstdin cppflags cppminus rm_try
?MAKE: -pick add $@ %<
?S:i_dirent:
?S: This variable conditionally defines I_DIRENT, which indicates
?S: to the C program that it should include <dirent.h>.
?S:.
?S:d_dirnamlen:
?S: This variable conditionally defines DIRNAMLEN, which indicates
?S: to the C program that the length of directory entry names is
?S: provided by a d_namelen field.
?S:.
?S:direntrytype:
?S: This symbol is set to 'struct direct' or 'struct dirent' depending on
?S: whether dirent is available or not. You should use this pseudo type to
?S: portably declare your directory entries.
?S:.
?C:I_DIRENT:
?C: This symbol, if defined, indicates to the C program
```

```
 that it should
?C: include <dirent.h>. Using this symbol also triggers the definition
?C: of the Direntry_t define which ends up being 'struct dirent' or
?C: 'struct direct' depending on the availability of <dirent.h>.
?C:.
?C:DIRNAMLEN:
?C: This symbol, if defined, indicates to the C program that the length
?C: of directory entry names is provided by a d_namlen field.  Otherwise
?C: you need to do strlen() on the d_name field.
?C:.
?C:Direntry_t:
?C: This symbol is set to 'struct direct' or 'struct dirent' depending on
?C: whether dirent is available or not. You should use this pseudo type to
?C: portably declare your directory entries.
?C:.
?H:#$i_dirent I_DIRENT  /**/
?H:#$d_dirnamlen DIRNAMLEN /**/
?H:?%<:@if I_DIRENT && Direntry_t
?H:?%<:#define Direntry_t $direntrytype
?H:?%<:@end
?H:.
?T:xinc guess1 guess2
?LINT:set i_dirent d_dirnamlen
: see if this is a dirent system
echo " "
if xinc=`./findhdr dirent.h`; $test "$xinc"; then
 val="$define"
 echo "<dirent.h> found." >&4
else
 val="$undef"
 if
 xinc=`./findhdr sys/dir.h`; $test "$xinc"; then
  echo "<sys/dir.h> found." >&4
  echo " "
 else
  xinc=`./findhdr sys/ndir.h`
 fi
 echo "<dirent.h> NOT found." >&4
fi
set i_dirent
eval $setvar

?X: Use struct dirent or struct direct?   If we're using dirent.h,
?X: it's probably struct dirent, but apparently not always.
?X: Assume $xinc still contains the name of the header file we're using.
@if direntrytype || Direntry_t
: Look for type of directory structure.
echo " "
```

```
$cppstdin $cppflags $cppminus < "$xinc" > try.c

case "$direntrytype" in
"|' ')
 case "$i_dirent" in
 $define) guess1='struct dirent' ;;
 *) guess1='struct direct'  ;;
 esac
 ;;
*) guess1="$direntrytype"
 ;;
esac

case "$guess1" in
'struct dirent') guess2='struct direct' ;;
*) guess2='struct dirent' ;;
esac

if $contains "$guess1" try.c >/dev/null 2>&1; then
 direntrytype="$guess1"
 echo "Your directory entries are $direntrytype." >&4
elif $contains "$guess2" try.c >/dev/null 2>&1; then
 direntrytype="$guess2"
 echo
 "Your directory entries seem to be $direntrytype." >&4
else
 echo "I don't recognize your system's directory entries." >&4
 rp="What type is used for directory entries on this system?"
 dflt="$guess1"
 . ./myread
 direntrytype="$ans"
fi
$rm_try

@end

@if d_dirnamlen || DIRNAMLEN
: see if the directory entry stores field length
echo " "
$cppstdin $cppflags $cppminus < "$xinc" > try.c
if $contains 'd_namlen' try.c >/dev/null 2>&1; then
 echo "Good, your directory entry keeps length information in d_namlen." >&4
 val="$define"
else
 echo "Your directory entry does not know about the d_namlen field." >&4
 val="$undef"
fi
set d_dirnamlen
```

```
eval $setvar
$rm_try

@end
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_dirent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: End.U,v $
?RCS: Revision 3.0  1993/08/18  12:04:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit serves as the goal which forces make to choose all the units that
?X: ask questions.  The $W on the ?MAKE: line is the list of all symbols wanted.
?X: To force any unit to be included, copy this unit to your private U directory
?X: and add the name of the unit desired to the ?MAKE: dependency line.
?X:
?MAKE:End: $W
?MAKE: -pick add $@ %<
?LINT:use $W
: end of configuration
 questions
echo " "
echo "End of configuration questions."
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/End.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: AAAAA.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: AAAAA.U,v $
?RCS: Revision 3.0.1.4  1994/06/20  06:50:26  ram
?RCS: patch30: changes from Jarkko Hietaniemi are tagged with JHI
?RCS:
?RCS: Revision 3.0.1.3  1994/05/06  14:01:39  ram
?RCS: patch23: initials for Wayne Davison are now WED
?RCS: patch23: added initials for new unit contributor Andy Dougherty
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:01:09  ram
?RCS: patch16: make metalint shut up on special unit definition for All target
?RCS:
?RCS: Revision
 3.0.1.1  1993/09/13  15:43:57  ram
?RCS: patch10: documents initials used for Wayne Davison's contributions
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this file is to supply the head of the Makefile created
?X: by metaconfig.  For this reason it must be first in alphabetical order.
?X: The leading '+' in front of the unit name is a hint for metalint, since
?X: the use of that special unit name as a "made" unit is legitimate here.
?X:
?MAKE:+All: Finish
?X:
?X: Throughout the units, the following initials are used to identify comments:
?X:
?X:  HMS: Harlan Stenn
?X:  RAM: Raphael Manfredi
?X:  WED: Wayne Davison (was WAD by mistake--RAM)
?X:  ADO: Andy Dougherty
?X:  JHI: Jarkko Hietaniemi
?X:
?X: Agreed, this is a weird place to document it, but I couldn't find a better
?X: place to do so. I've bet on the curiosity of users, who would probably
?X: want to know what's in this strangely-named file--RAM.
```

Found
 in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/AAAAA.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getppid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_getppid.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:45  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_getppid: Inlibc
?MAKE: -pick add $@ %<
?S:d_getppid:
?S: This variable conditionally defines the HAS_GETPPID symbol, which
?S: indicates to the C program that the getppid() routine is available
?S: to get the parent process ID.
?S:.
?C:HAS_GETPPID :
?C: This symbol,
 if defined, indicates that the getppid routine is
?C: available to get the parent process ID.
?C:.
?H:#$d_getppid HAS_GETPPID  /**/
?H:.
?LINT:set d_getppid
: see if getppid exists
set getppid d_getppid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getppid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: contains.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: contains.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:contains: Nothing
?MAKE: -pick add $@ %<
?S:contains:
?S: This variable holds the command to do a grep with a proper return
?S: status.  On most sane systems it is simply "grep".  On insane systems
?S: it is a grep followed by a cat followed by a test.  This variable
?S: is primarily for the use of other Configure units.
?S:.
: Some
 greps do not return status, grrr.
echo "grimblepritz" >grimble
if grep blurfldyick grimble >/dev/null 2>&1 ; then
 contains=contains
elif grep grimblepritz grimble >/dev/null 2>&1 ; then
 contains=grep
else
 contains=contains
fi
rm -f grimble
: the following should work in any shell
case "$contains" in
contains*)
 echo " "
 echo "AGH!  Grep doesn't return a status.  Attempting remedial action."
 cat >contains <<'EOSS'
grep "$1" "$2" >.greptmp && cat .greptmp && test -s .greptmp
EOSS
chmod +x contains
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/contains.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:uselargefiles \
 ccflags_uselargefiles \
 ldflags_uselargefiles \
 libswanted_uselargefiles: \
 Myread Oldconfig Setvar test lseeksize fpossize \
 fpostype Compile echo n c cat lseektype rm_try run \
 use64bitint use64bitall i_stdlib
?MAKE: -pick add $@ %<
?Y:TOP
?S:uselargefiles:
?S: This variable conditionally defines the USE_LARGE_FILES symbol,
?S: and indicates that large file interfaces should be used when
?S: available.
?S:.
?S:ccflags_uselargefiles:
?S: This variable contains the compiler flags needed by large file builds
?S: and added to ccflags by hints files.
?S:.
?S:ldflags_uselargefiles:
?S: This variable contains the loader flags needed by large file builds
?S: and added to ldflags by
 hints files.
?S:.
?S:libswanted_uselargefiles:
?S: This variable contains the libraries needed by large file builds
?S: and added to ldflags by hints files.  It is a space separated list
?S: of the library names without the "lib" prefix or any suffix, just
?S: like libswanted..
?S:.
?C:USE_LARGE_FILES:
?C: This symbol, if defined, indicates that large file support
?C: should be used when available.
?C:.
?H:?%<:#ifndef USE_LARGE_FILES
?H:?%<:#$uselargefiles USE_LARGE_FILES  /**/
?H:?%<:#endif
?H:.
?INIT:ccflags_uselargefiles="
?INIT:ldflags_uselargefiles="
?INIT:libswanted_uselargefiles="
?T:yyy zzz
?F:!uselargefiles.cbu !try
?LINT:change lseeksize
?LINT:change fpossize
?LINT:extern uselfs
?LINT:use use64bitint
```

```
?LINT:use use64bitall
: Check for large file support
# Backward compatibility (uselfs is deprecated).
case "$uselfs" in
"$define"|true|[yY]*)
 cat <<EOM >&4

*** Configure -Duselfs is deprecated, using -Duselargefiles instead.
EOM
 uselargefiles="$define"
 ;;
esac

case "$lseeksize:$fpossize"
 in
8:8) cat <<EOM

You can have files larger than 2 gigabytes.
EOM
  val="$define" ;;
*)    case "$uselargefiles" in
  "$undef"|false|[nN]*) dflt='n' ;;
  *) dflt='y' ;;
  esac
  cat <<EOM

Perl can be built to understand large files (files larger than 2 gigabytes)
on some systems.  To do so, Configure can be run with -Duselargefiles.

If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
  rp='Try to understand large files, if available?'
  . ./myread
  case "$ans" in
  y|Y) val="$define" ;;
  *) val="$undef"  ;;
  esac
  ;;
esac
set uselargefiles
eval $setvar
: Look for a hint-file generated 'call-back-unit'.  If the
: user has specified that a large files perl is to be built,
: we may need to set or change some other defaults.
if $test -f uselargefiles.cbu; then
 echo "Your platform has some specific hints regarding large file builds, using them..."
 . ./uselargefiles.cbu
fi
```

```
case "$uselargefiles" in
"$define")
 if $test -f uselargefiles.cbu;
 then
  echo " "
  echo "Rechecking to see how big your file offsets are..." >&4
  $cat >try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
int main()
{
   printf("%d\n", (int)sizeof($lseektype));
   return(0);
}
EOCP
  set try
  if eval $compile_ok; then
   lseeksize=`$run ./try`
   $echo "Your file offsets are now $lseeksize bytes long."
  else
   dflt="$lseeksize"
   echo " "
   echo "(I can't seem to compile the test program.  Guessing...)"
   rp="What is the size of your file offsets (in bytes)?"
   . ./myread
   lseeksize="$ans"
  fi
  case "$fpostype" in
  *_t) zzz="$fpostype" ;;
  *)   zzz="fpos_t" ;;
  esac
  $echo $n "Rechecking the size of $zzz...$c" >&4
  $cat > try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() {
   printf("%d\n", (int)sizeof($fpostype));
   return(0);
}
EOCP
  set try
  if eval $compile_ok; then
   yyy=`$run ./try`
   dflt="$lseeksize"
```

```
  case "$yyy" in
  ") echo
 " "
   echo "(I can't execute the test program--guessing $fpossize.)" >&4
   ;;
  *) fpossize=$yyy
   echo " $fpossize bytes." >&4
   ;;
  esac
 else
  dflt="$fpossize"
  echo " "
  echo "(I can't compile the test program.  Guessing...)" >&4
  rp="What is the size of your file positions (in bytes)?"
  . ./myread
  fpossize="$ans"
 fi
 $rm_try
fi
;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/uselfs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Cppsym.U,v $
?RCS: Revision 3.0.1.5  1995/05/12  11:59:11  ram
?RCS: patch54: split awk command onto two lines for older awks (ADO)
?RCS:
?RCS: Revision 3.0.1.4  1995/01/11  14:55:57  ram
?RCS: patch45: new cc vs. cpp symbol checking suggested by JHI
?RCS: patch45: added more cpp symbols (JHI)
?RCS:
?RCS: Revision 3.0.1.3  1994/10/29  15:51:32  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: new symbols ardent and titan (ADO)
```

```
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20
  06:53:32  ram
?RCS: patch30: extended cpp symbol lookup list (JHI)
?RCS: patch30: renamed attrlist symbol into al for brevity
?RCS:
?RCS: Revision 3.0.1.1  1993/12/15  08:14:14  ram
?RCS: patch15: added new cpp symbols __bsdi__ and BSD_NET2
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script called Cppsym, which can be used to
?X: determine whether any in a list of symbols is defined by the C compilation
?X: chain (C preprocessor symbols plus C compiler native ones).
?X: It can determine the status of any symbol, though the symbols in $al
?X: are more easily determined.  If you want to add to $al you can do
?X: it in Myinit.U.
?X:
?MAKE:Cppsym ccsymbols cppsymbols cppccsymbols: run \
 eunicefix Guess awk cat tr sed sort rm startsh osname \
 +cc gccversion test comm uniq echo Options trnl \
 optimize ccflags ldflags libs
?MAKE: -pick add $@ %<
?S:ccsymbols:
?S: The variable contains the symbols
 defined by the C compiler alone.
?S: The symbols defined by cpp or by cc when it calls cpp are not in
?S: this list, see cppsymbols and cppccsymbols.
?S: The list is a space-separated list of symbol=value tokens.
?S:.
?S:cppsymbols:
?S: The variable contains the symbols defined by the C preprocessor
?S: alone.  The symbols defined by cc or by cc when it calls cpp are
?S: not in this list, see ccsymbols and cppccsymbols.
?S: The list is a space-separated list of symbol=value tokens.
?S:.
?S:cppccsymbols:
?S: The variable contains the symbols defined by the C compiler
?S: when it calls cpp.  The symbols defined by the cc alone or cpp
?S: alone are not in this list, see ccsymbols and cppsymbols.
?S: The list is a space-separated list of symbol=value tokens.
?S:.
?T:also symbols i postprocess_cc_v flags
?F:./Cppsym
?F:!Cppsym.true !Cppsym.know !ccsym.com !ccsym.cpp !ccsym.own
: determine known pre-processor and compiler symbols
```

```
echo " "
$echo "Guessing which symbols your C compiler and preprocessor
 define..." >&4
?X:
?X: The symbol list is in alpha order for ease of maintenance...
?X:
?X: Lots of new symbols (mostly rummaged from gcc), courtesy of
?X: Jarkko Hietaniemi <jhi@snakemail.hut.fi> -- RAM, 06/06/94
?X:
?X: If your symbol is mixed case, just add it as-is.
?X: All symbols will be transformed to both all-lower and all-upper.
?X: Also drop any leading/trailing underscores, the scan will try all those.
?X:
$cat <<'EOSH' > Cppsym.know
a29k ABI64 aegis AES_SOURCE AIX AIX32 AIX370
AIX41 AIX42 AIX43 AIX_SOURCE aixpc ALL_SOURCE
alliant alpha am29000 AM29000 AMD64 amiga AMIGAOS AMIX
ansi ANSI_C_SOURCE apollo ardent ARM32 atarist att386 att3b
BeOS BIG_ENDIAN BIT_MSF bsd BSD bsd43 bsd4_2 bsd4_3 BSD4_3 bsd4_4
BSD_4_3 BSD_4_4 BSD_NET2 BSD_TIME BSD_TYPES BSDCOMPAT bsdi
bull c cadmus clipper CMU COFF COMPILER_VERSION
concurrent convex cpu cray CRAY CRAYMPP ctix CX_UX
CYGWIN DGUX DGUX_SOURCE DJGPP dmert DOLPHIN DPX2 DSO
Dynix DynixPTX ELF encore EPI EXTENSIONS FAVOR_BSD
FILE_OFFSET_BITS
 FreeBSD GCC_NEW_VARARGS gcos gcx gimpel
GLIBC GLIBC_MINOR
GNU_SOURCE GNUC GNUC_MINOR GNU_LIBRARY GO32 gould GOULD_PN
H3050R H3050RX hbullx20 hcx host_mips
hp200 hp300 hp700 HP700 hp800 hp9000
hp9000s200 hp9000s300 hp9000s400 hp9000s500
hp9000s700 hp9000s800 hp9k8 hp_osf hppa hpux HPUX_SOURCE
i186 i286 i386 i486 i586 i686 i8086 i80960 i860 I960
IA64 iAPX286 ibm ibm032 ibmesa IBMR2 ibmrt ILP32 ILP64
INLINE_INTRINSICS INTRINSICS INT64 interdata is68k ksr1
LANGUAGE_C LARGE_FILE_API LARGEFILE64_SOURCE
LARGEFILE_SOURCE LFS64_LARGEFILE LFS_LARGEFILE
Linux LITTLE_ENDIAN LONG64 LONG_DOUBLE LONG_LONG
LONGDOUBLE LONGLONG LP64 luna luna88k Lynx
M68000 m68k m88100 m88k M88KBCS_TARGET M_COFF
M_I186 M_I286 M_I386 M_I8086 M_I86 M_I86SM M_SYS3
M_SYS5 M_SYSIII M_SYSV M_UNIX M_XENIX MACH machine MachTen
MATH_HAS_NO_SIDE_EFFECTS
mc300 mc500 mc68000 mc68010 mc68020 mc68030 mc68040
mc68060 mc68k mc68k32 mc700 mc88000 mc88100 merlin
mert MiNT mips MIPS_FPSET MIPS_ISA MIPS_SIM MIPS_SZINT
MIPS_SZLONG
```

```
 MIPS_SZPTR MIPSEB MIPSEL MODERN_C motorola
mpeix MSDOS MTXINU MULTIMAX mvs MVS n16 ncl_el ncl_mr
NetBSD news1500 news1700 news1800 news1900 news3700
news700 news800 news900 NeXT NLS nonstopux ns16000 ns32000
ns32016 ns32332 ns32k nsc32000
OCS88 OEMVS OpenBSD os OS2 OS390 osf OSF1 OSF_SOURCE
pa_risc PA_RISC1_1 PA_RISC2_0 PARAGON parisc
pc532 pdp11 PGC PIC plexus PORTAR posix
POSIX1B_SOURCE POSIX2_SOURCE POSIX4_SOURCE
POSIX_C_SOURCE POSIX_SOURCE POWER
PROTOTYPES PWB pyr QNX R3000 REENTRANT RES Rhapsody RISC6000
riscix riscos RT S390 SA110 scs SCO sequent sgi SGI_SOURCE SH3 sinix
SIZE_INT SIZE_LONG SIZE_PTR SOCKET_SOURCE SOCKETS_SOURCE
sony sony_news sonyrisc sparc sparclite spectrum
stardent stdc STDC_EXT stratos sun sun3 sun386
Sun386i svr3 svr4 SVR4_2 SVR4_SOURCE svr5
SX system SYSTYPE_BSD SYSTYPE_BSD43 SYSTYPE_BSD44
SYSTYPE_SVR4 SYSTYPE_SVR5 SYSTYPE_SYSV SYSV SYSV3 SYSV4 SYSV5
sysV68 sysV88 Tek4132 Tek4300 titan
TM3200 TM5400 TM5600
tower tower32 tower32_200 tower32_600 tower32_700
tower32_800
 tower32_850 tss
u370 u3b u3b2 u3b20 u3b200 u3b20d u3b5
ultrix UMAXV UnicomPBB UnicomPBD UNICOS UNICOSMK
unix UNIX95 UNIX99 unixpc unos
USE_BSD USE_FILE_OFFSET64 USE_GNU USE_ISOC9X USE_LARGEFILE USE_LARGEFILE64
USE_MISC USE_POSIX USE_POSIX199309 USE_POSIX199506 USE_POSIX2
USE_REENTRANT USE_SVID USE_UNIX98 USE_XOPEN USE_XOPEN_EXTENDED
USGr4 USGr4_2
Utek UTek UTS UWIN uxpm uxps vax venix VMESA vms xenix Xenix286
XOPEN_SOURCE XOPEN_SOURCE_EXTENDED XPG2 XPG2_EXTENDED
XPG3 XPG3_EXTENDED XPG4 XPG4_EXTENDED
z8000
EOSH
?X: Maybe put other stuff here too.
cat <<EOSH >>Cppsym.know
$osname
EOSH
./tr '[a-z]' '[A-Z]' < Cppsym.know > Cppsym.a
./tr '[A-Z]' '[a-z]' < Cppsym.know > Cppsym.b
$cat Cppsym.know > Cppsym.c
$cat Cppsym.a Cppsym.b Cppsym.c | $tr ' ' $trnl | $sort | $uniq > Cppsym.know
$rm -f Cppsym.a Cppsym.b Cppsym.c
cat <<EOSH > Cppsym
$startsh
if $test \$# -gt 0; then
   echo \$* | $tr " " "$trnl" | ./Cppsym.try > Cppsym.got
```

```
   if $test -s Cppsym.got; then
       $rm -f Cppsym.got
        exit 0
   fi
   $rm -f Cppsym.got
   exit 1
else
   $tr " " "$trnl" | ./Cppsym.try
   exit 0
fi
EOSH
chmod +x Cppsym
$eunicefix Cppsym
?X: The below awk script will die a horrible death if
?X: some of the tested symbols are not long ints.
?X: Also, we do not make difference between just defined and defined zero.
cat <<EOSH > Cppsym.try
$startsh
cat <<'EOCP' > try.c
#include <stdio.h>
int main() {
EOCP
?X: The length($1) command guards against possible empty entries.
?X: The awk snippet is know to give heartburn to UNICOS/mk awk.
$awk \\
EOSH
cat <<'EOSH' >> Cppsym.try
'length($1) > 0 {
   printf "#ifdef %s\n#if %s+0\nprintf(\"%s=%%ld\\n\", (long)%s);\n#else\nprintf(\"%s\\n\");\n#endif\n#endif\n", $1,
$1, $1, $1, $1
   printf "#ifdef _%s\n#if _%s+0\nprintf(\"_%s=%%ld\\n\",
(long)_%s);\n#else\nprintf(\"_%s\\n\");\n#endif\n#endif\n", $1, $1, $1, $1, $1
   printf "#ifdef __%s\n#if __%s+0\nprintf(\"__%s=%%ld\\n\",
(long)__%s);\n#else\nprintf(\"__%s\\n\");\n#endif\n#endif\n",
 $1, $1, $1, $1, $1
   printf "#ifdef __%s__\n#if __%s__+0\nprintf(\"__%s__=%%ld\\n\",
(long)__%s__);\n#else\nprintf(\"__%s__\\n\");\n#endif\n#endif\n", $1, $1, $1, $1, $1
}'  >> try.c
echo 'return 0;}' >> try.c
EOSH
cat <<EOSH >> Cppsym.try
flags="$ccflags"
case "$osname-$gccversion" in
irix-) flags="\$flags -woff 1178" ;;
os2-*) flags="\$flags -Zlinker /PM:VIO" ;;
esac
$cc -o try $optimize \$flags $ldflags try.c $libs && $run ./try
EOSH
```

```
chmod +x Cppsym.try
$eunicefix Cppsym.try
./Cppsym < Cppsym.know > Cppsym.true
: now check the C compiler for additional symbols
?X: suggested by Jarkko Hietaniemi <jhi@snakemail.hut.fi>, thanks!
postprocess_cc_v="
case "$osname" in
aix) postprocess_cc_v="|$tr , ' '" ;;
esac
$cat >ccsym <<EOS
$startsh
$cat >tmp.c <<EOF
extern int foo;
EOF
for i in \`$cc -v -c tmp.c 2>&1 $postprocess_cc_v\`
do
 case "\$i" in
 -D*) echo "\$i" | $sed 's/^-D//';;
 -A*) $test "$gccversion" && echo "\$i" | $sed 's/^-A//' | $sed 's/\(.*\)(\(.*\))/\1=\2/';;
 esac
done
$rm
 -f try.c
EOS
postprocess_cc_v="
chmod +x ccsym
$eunicefix ccsym
./ccsym > ccsym1.raw
?X: AIX complains if $uniq is passed an empty file.  ($sort apparently
?X: doesn't care.)  --AD  14 July 1998
if $test -s ccsym1.raw; then
	$sort ccsym1.raw | $uniq >ccsym.raw
else
	mv ccsym1.raw ccsym.raw
fi

?X: canonicalize symbols for easier sort/uniq/comm usage: append =1 if no = sign
?X: the awk script must be on two lines for older awk programs, sigh! -- ADO
$awk '/\=/ { print $0; next }
 { print $0"=1" }' ccsym.raw >ccsym.list
$awk '/\=/ { print $0; next }
 { print $0"=1" }' Cppsym.true >ccsym.true
$comm -13 ccsym.true ccsym.list >ccsym.own
$comm -12 ccsym.true ccsym.list >ccsym.com
$comm -23 ccsym.true ccsym.list >ccsym.cpp
also="
if $test -z ccsym.raw; then
 echo "Your C compiler doesn't seem to define any symbols!" >&4
```

```
 echo " "
 echo "However, your C preprocessor defines the following symbols:"
 $cat Cppsym.true
    ccsymbols="
 cppsymbols=`$cat Cppsym.true`
       cppsymbols=`echo
 $cppsymbols`
 cppccsymbols="$cppsymbols"
else
 if $test -s ccsym.com; then
  echo "Your C compiler and pre-processor define these symbols:"
  $sed -e 's/\(..*\)=.*/\1/' ccsym.com
  also='also '
  symbols='ones'
  cppccsymbols=`$cat ccsym.com`
  cppccsymbols=`echo $cppccsymbols`
  $test "$silent" || sleep 1
 fi
 if $test -s ccsym.cpp; then
  $test "$also" && echo " "
  echo "Your C pre-processor ${also}defines the following symbols:"
  $sed -e 's/\(..*\)=.*/\1/' ccsym.cpp
  also='further '
  cppsymbols=`$cat ccsym.cpp`
  cppsymbols=`echo $cppsymbols`
  $test "$silent" || sleep 1
 fi
 if $test -s ccsym.own; then
  $test "$also" && echo " "
  echo "Your C compiler ${also}defines the following cpp symbols:"
  $sed -e 's/\(..*\)=1/\1/' ccsym.own
  $sed -e 's/\(..*\)=.*/\1/' ccsym.own | $uniq >>Cppsym.true
         ccsymbols=`$cat ccsym.own`
         ccsymbols=`echo $ccsymbols`
  $test "$silent" || sleep 1
 fi
fi
$rm -f Cppsym.know Cppsym.true
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Cppsym.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_pidcheck.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_pidcheck.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:37:55  ram
?RCS: patch61: replaced .o with $_o all over the place
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_pidcheck: cat rm +cc _o
?MAKE: -pick add $@ %<
?S:d_pidcheck:
?S: This variable conditionally defines the variable PIDCHECK
?S: which indicates that kill(pid, 0) will check for an
 active pid.
?S:.
?C:PIDCHECK:
?C: This symbol, if defined, means that the kill(pid, 0) will
?C: check for an active pid (i.e. the kernel will run all the
?C: necessary pid checks, but no signal is actually sent).
?C:.
?H:#$d_pidcheck PIDCHECK  /**/
?H:.
?F:!try
: check for "kill(pid, 0)"
echo " "
case "$d_pidcheck" in
"$define")
echo "I already know your system supports kill(pid, 0) for pid checks." >&4
 ;;
"$undef")
echo "We both know your system does not support signal #0 for pid checks." >&4
 ;;
*)
 echo "Checking to see if kill(pid, 0) works..." >&4
 $cat >try.c <<'EOCP'
int main()
 {
 int pid, status0, status9;

 if ((pid = fork()) == 0)
  {
  sleep(30);
```

```
  exit(1);
  }
 status0 = kill(pid, 0);
 status9 = kill(pid, 9);
 exit(status0 == status9);
 }
EOCP
 if $cc -o try try.c >/dev/null 2>&1 ; then
  if ./try >/dev/null 2>&1 ; then
   echo "Yes, it does marvels."
   d_pidcheck="$undef"
  else
   d_pidcheck="$define"
   echo "No, it doesn't."
  fi
 else
  echo "(I was unable to compile
 the test program.)"
  echo "Your system does not appear to support kill(pid, 0)."
  d_pidcheck="$undef"
 fi
 $rm -f try.c try$_o try
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_pidcheck.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2017, Karl Williamson
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_mbrtowc: Inlibc
?MAKE: -pick add $@ %<
?S:d_mbrtowc:
?S: This variable conditionally defines the HAS_MBRTOWC symbol if the
?S: mbrtowc() routine is available to be used to convert a multi-byte
?S: character into a wide character.
?S:.
?C:HAS_MBRTOWC:
?C: This symbol, if defined, indicates that the mbrtowc routine is
?C: available to convert a multi-byte character into a wide character.
```

```
?C:.
?H:#$d_mbrtowc HAS_MBRTOWC /**/
?H:.
?LINT: set d_mbrtowc
: see if mbrtowc exists
set mbrtowc d_mbrtowc
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_mbrtowc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sysman.U,v $
?RCS: Revision 3.0.1.2  1994/06/20  07:08:43  ram
?RCS: patch30: now explicitly states that /usr/man/man1 is the default
?RCS: patch30: added /usr/local/man/man1 to the search list
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:13:50  ram
?RCS: patch10: added support for /local/man/man1 (WAD)
?RCS: patch10: added temporary syspath variable to cut down on line length
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:sysman: test
 Loc Oldconfig
?MAKE: -pick add $@ %<
?S:sysman:
?S: This variable holds the place where the manual is located on this
?S: system. It is not the place where the user wants to put his manual
?S: pages. Rather it is the place where Configure may look to find manual
?S: for unix commands (section 1 of the manual usually). See mansrc.
?S:.
?T:syspath
: determine where manual pages are on this system
echo " "
case "$sysman" in
```

```
")
 syspath='/usr/share/man/man1 /usr/man/man1'
 syspath="$syspath /usr/man/mann /usr/man/manl /usr/man/local/man1"
 syspath="$syspath /usr/man/u_man/man1 /usr/share/man/man1"
 syspath="$syspath /usr/catman/u_man/man1 /usr/man/l_man/man1"
 syspath="$syspath /usr/local/man/u_man/man1 /usr/local/man/l_man/man1"
 syspath="$syspath /usr/man/man.L /local/man/man1 /usr/local/man/man1"
 sysman=`./loc . /usr/man/man1 $syspath`
 ;;
esac
if $test -d "$sysman"; then
 echo "System manual is in $sysman." >&4
else
 echo "Could not find manual pages in source form." >&4
fi
```

Found
 in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/sysman.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_pwd.U,v 3.0.1.2 1995/07/25 14:10:57 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: i_pwd.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:10:57  ram
?RCS: patch56: use setvar so hint file values can override our guesses (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:03:27  ram
?RCS: patch23: had forgotten cppminus in cppstdin test (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:25  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit checks whether there is a pwd system or not
?X:
?MAKE:i_pwd d_pwquota d_pwage d_pwchange
 d_pwclass d_pwexpire \
 d_pwgecos d_pwpasswd d_pwcomment: \
```

```
 contains rm cppstdin cppflags cppminus Inhdr Findhdr Setvar
?MAKE: -pick add $@ %<
?S:i_pwd:
?S: This variable conditionally defines I_PWD, which indicates
?S: to the C program that it should include <pwd.h>.
?S:.
?S:d_pwquota:
?S: This variable conditionally defines PWQUOTA, which indicates
?S: that struct passwd contains pw_quota.
?S:.
?S:d_pwage:
?S: This variable conditionally defines PWAGE, which indicates
?S: that struct passwd contains pw_age.
?S:.
?S:d_pwchange:
?S: This variable conditionally defines PWCHANGE, which indicates
?S: that struct passwd contains pw_change.
?S:.
?S:d_pwclass:
?S: This variable conditionally defines PWCLASS, which indicates
?S: that struct passwd contains pw_class.
?S:.
?S:d_pwexpire:
?S: This variable conditionally defines PWEXPIRE, which indicates
?S: that struct passwd contains pw_expire.
?S:.
?S:d_pwcomment:
?S: This variable conditionally defines PWCOMMENT, which indicates
?S: that
 struct passwd contains pw_comment.
?S:.
?S:d_pwgecos:
?S: This variable conditionally defines PWGECOS, which indicates
?S: that struct passwd contains pw_gecos.
?S:.
?S:d_pwpasswd:
?S: This variable conditionally defines PWPASSWD, which indicates
?S: that struct passwd contains pw_passwd.
?S:.
?C:I_PWD:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <pwd.h>.
?C:.
?C:PWQUOTA:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_quota.
?C:.
?C:PWAGE:
```

```
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_age.
?C:.
?C:PWCHANGE:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_change.
?C:.
?C:PWCLASS:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_class.
?C:.
?C:PWEXPIRE:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_expire.
?C:.
?C:PWCOMMENT:
?C: This
 symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_comment.
?C:.
?C:PWGECOS:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_gecos.
?C:.
?C:PWPASSWD:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_passwd.
?C:.
?H:#$i_pwd I_PWD  /**/
?H:#$d_pwquota PWQUOTA /**/
?H:#$d_pwage PWAGE /**/
?H:#$d_pwchange PWCHANGE /**/
?H:#$d_pwclass PWCLASS /**/
?H:#$d_pwexpire PWEXPIRE /**/
?H:#$d_pwcomment PWCOMMENT /**/
?H:#$d_pwgecos PWGECOS /**/
?H:#$d_pwpasswd PWPASSWD /**/
?H:.
?LINT: set i_pwd d_pwquota d_pwage d_pwchange d_pwclass d_pwexpire d_pwcomment
?LINT: set d_pwgecos d_pwpasswd
?T:xxx
: see if this is a pwd.h system
set pwd.h i_pwd
eval $inhdr

case "$i_pwd" in
$define)
 xxx=`./findhdr pwd.h`
```

```
$cppstdin $cppflags $cppminus < $xxx >$$.h

if $contains 'pw_quota' $$.h >/dev/null 2>&1; then
 val="$define"
else
 val="$undef"
fi
set d_pwquota
eval $setvar

if $contains 'pw_age'
$$.h >/dev/null 2>&1; then
 val="$define"
else
 val="$undef"
fi
set d_pwage
eval $setvar

if $contains 'pw_change' $$.h >/dev/null 2>&1; then
 val="$define"
else
 val="$undef"
fi
set d_pwchange
eval $setvar

if $contains 'pw_class' $$.h >/dev/null 2>&1; then
 val="$define"
else
 val="$undef"
fi
set d_pwclass
eval $setvar

if $contains 'pw_expire' $$.h >/dev/null 2>&1; then
 val="$define"
else
 val="$undef"
fi
set d_pwexpire
eval $setvar

if $contains 'pw_comment' $$.h >/dev/null 2>&1; then
 val="$define"
else
 val="$undef"
fi
```

```
 set d_pwcomment
 eval $setvar

 if $contains 'pw_gecos' $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_pwgecos
 eval $setvar

 if $contains 'pw_passwd' $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_pwpasswd
 eval $setvar

 $rm -f $$.h
 ;;
*)
 val="$undef";
 set d_pwquota; eval $setvar
 set d_pwage; eval $setvar
 set d_pwchange; eval $setvar
 set d_pwclass; eval $setvar
 set
 d_pwexpire; eval $setvar
 set d_pwcomment; eval $setvar
 set d_pwgecos; eval $setvar
 set d_pwpasswd; eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_pwd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endgrent.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_endgrent.U,v $
```

```
?RCS:
?MAKE:d_endgrent: Inlibc
?MAKE: -pick add $@ %<
?S:d_endgrent:
?S: This variable conditionally defines the HAS_ENDGRENT symbol, which
?S: indicates to the C program that the endgrent() routine is available
?S: for sequential access of the group database.
?S:.
?C:HAS_ENDGRENT:
?C: This symbol, if defined, indicates that the getgrent routine is
?C: available for finalizing sequential access of the group database.
?C:.
?H:#$d_endgrent HAS_ENDGRENT  /**/
?H:.
?LINT:set d_endgrent
: see if endgrent exists
set endgrent d_endgrent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_endgrent.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: bitpbyte.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:02:54  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:bitpbyte: cat rm Myread +cc +ccflags
?MAKE: -pick add $@ %<
?S:bitpbyte:
?S: This variable contains the value of the BITS_PER_BYTE symbol, which
?S: indicates to the C program how many bits there are in a byte.
?S:.
?C:BITS_PER_BYTE:
```

```
?C: This symbol contains the number
 of bits in a byte, so that the C
?C: preprocessor can make decisions based on it.
?C:.
?H:#define BITS_PER_BYTE $bitpbyte  /**/
?H:.
?F:!try
: check for length of byte
echo " "
case "$bitpbyte" in
")
 echo "Checking to see how many bits there are in a byte..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
?X: Standard C requires a macro CHAR_BIT in <limits.h>
#ifdef __STDC__
#include <limits.h>
#ifndef CHAR_BIT
#define CHAR_BIT 8
#endif
#ifndef BITSPERBYTE
#define BITSPERBYTE CHAR_BIT
#endif
#else
?X: On non standard C, try with <values.h>
#include <values.h>
#ifndef BITSPERBYTE
#define BITSPERBYTE 8
#endif
#endif
int main()
{
 printf("%d\n", BITSPERBYTE);
}
EOCP
 if $cc $ccflags -o try try.c >/dev/null 2>&1 ; then
  dflt=`./try`
 else
  dflt='8'
  echo "(I can't seem to compile the test program.  Guessing...)"
 fi
 ;;
*)
 dflt="$bitpbyte"
 ;;
esac
rp="What is the length of a byte (in bits)?"
. ./myread
```

```
bitpbyte="$ans"
$rm -f try.c try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/bitpbyte.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:usemultiplicity: useithreads Myread Oldconfig Setvar
?MAKE: -pick add $@ %<
?Y:TOP
?S:usemultiplicity:
?S: This variable conditionally defines the MULTIPLICITY symbol,
?S: and indicates that Perl should be built to use multiplicity.
?S:.
?C:MULTIPLICITY:
?C: This symbol, if defined, indicates that Perl should
?C: be built to use multiplicity.
?C:.
?H:?%<:#ifndef MULTIPLICITY
?H:?%<:#$usemultiplicity MULTIPLICITY  /**/
?H:?%<:#endif
?H:.
?LINT:set usemultiplicity
?INIT:: set usemultiplicity on the Configure command line to enable multiplicity.
: Check if multiplicity is required
?X: We should really have some explanatory text here, and some
?X: automatic setting of sensible defaults.
cat <<EOM

Perl
 can be built so that multiple Perl interpreters can coexist
within the same Perl executable.
EOM

case "$useithreads" in
$define)
 cat <<EOM
This multiple interpreter support is required for interpreter-based threads.
EOM
 val="$define"
```

```
 ;;
*) case "$usemultiplicity" in
 $define|true|[yY]*) dflt='y';;
 *) dflt='n';;
 esac
 echo " "
 echo "If this doesn't make any sense to you, just accept the default '$dflt'."
 rp='Build Perl for multiplicity?'
 . ./myread
 case "$ans" in
 y|Y) val="$define" ;;
 *)      val="$undef" ;;
 esac
 ;;
esac
set usemultiplicity
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/usemultiplicity.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: otherlibdirs.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
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?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: otherlibdirs.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?RCS: Revision 1.1  1999/07/08 18:20:26  doughera
?RCS: Initial revision
?RCS:
?RCS:
?MAKE:otherlibdirs d_perl_otherlibdirs: Myread cat sitelib sitearch \
 vendorarch vendorlib Setvar
?MAKE: -pick add $@ %<
?Y:TOP
?S:otherlibdirs:
?S: This variable contains a colon-separated set of paths for the perl
?S: binary to search for additional library files
```

```
 or modules.
?S: These directories will be tacked to the end of @INC.
?S: Perl will automatically search below each path for version-
?S: and architecture-specific directories.  See inc_version_list
?S: for more details.
?S: A value of ' ' means 'none' and is used to preserve this value
?S: for the next run through Configure.
?S:.
?S:d_perl_otherlibdirs:
?S: This variable conditionally defines PERL_OTHERLIBDIRS, which
?S: contains a colon-separated set of paths for the perl binary to
?S: include in @INC.  See also otherlibdirs.
?S:.
?C:PERL_OTHERLIBDIRS:
?C: This variable contains a colon-separated set of paths for the perl
?C: binary to search for additional library files or modules.
?C: These directories will be tacked to the end of @INC.
?C: Perl will automatically search below each path for version-
?C: and architecture-specific directories.  See PERL_INC_VERSION_LIST
?C: for more details.
?C:.
?H:#$d_perl_otherlibdirs PERL_OTHERLIBDIRS "$otherlibdirs"  /**/
?H:.
?LINT: set d_perl_otherlibdirs
:
 Final catch-all directories to search
$cat <<EOM

Lastly, you can have perl look in other directories for extensions and
modules in addition to those already specified.
These directories will be searched after
 $sitearch
 $sitelib
EOM
test X"$vendorlib" != "X" && echo ' ' $vendorlib
test X"$vendorarch" != "X" && echo ' ' $vendorarch
echo ' '
case "$otherlibdirs" in
"|' ') dflt='none' ;;
*) dflt="$otherlibdirs" ;;
esac
$cat <<EOM
Enter a colon-separated set of extra paths to include in perl's @INC
search path, or enter 'none' for no extra paths.

EOM

rp='Colon-separated list of additional directories for perl to search?'
```

```
. ./myread
case "$ans" in
' '|''|none) otherlibdirs=' ' ;;
*) otherlibdirs="$ans" ;;
esac
case "$otherlibdirs" in
' ') val=$undef ;;
*) val=$define ;;
esac
set d_perl_otherlibdirs
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/otherlibdirs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2005, H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_malloc_size d_malloc_good_size d_malloc_usable_size: Inlibc
?MAKE: -pick add $@ %<
?S:d_malloc_size:
?S: This symbol, if defined, indicates that the malloc_size
?S: routine is available for use.
?S:.
?S:d_malloc_good_size:
?S: This symbol, if defined, indicates that the malloc_good_size
?S: routine is available for use.
?S:.
?S:d_malloc_usable_size:
?S: This symbol, if defined, indicates that the malloc_usable_size
?S: routine is available for use.
?S:.
?C:HAS_MALLOC_SIZE:
?C: This symbol, if defined, indicates that
 the malloc_size
?C: routine is available for use.
?C:.
?H:#$d_malloc_size HAS_MALLOC_SIZE  /**/
?H:.
```

```
?C:HAS_MALLOC_GOOD_SIZE:
?C: This symbol, if defined, indicates that the malloc_good_size
?C: routine is available for use.
?C:.
?H:#$d_malloc_good_size HAS_MALLOC_GOOD_SIZE /**/
?H:.
?C:HAS_MALLOC_USABLE_SIZE:
?C: This symbol, if defined, indicates that the malloc_usable_size
?C: routine is available for use.
?C:.
?H:#$d_malloc_usable_size HAS_MALLOC_USABLE_SIZE  /**/
?H:.
?LINT:set d_malloc_size
?LINT:set d_malloc_good_size
?LINT:set d_malloc_usable_size
: see if malloc_size exists
set malloc_size d_malloc_size
eval $inlibc

: see if malloc_size_good exists
set malloc_good_size d_malloc_good_size
eval $inlibc

: see if malloc_usable_size exists
set malloc_usable_size d_malloc_usable_size
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_malloc_size.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Config_h.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Config_h.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  14:57:43  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:10:49  ram
?RCS: patch59: commented the purpose of the #un-def directive
```

```
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:25:39  ram
?RCS: patch49: typo fixes in leading config.h comment (WED)
?RCS:
?RCS: Revision 3.0.1.2  1993/08/24  12:13:20  ram
?RCS: patch3: added TOP as a local shell temporary variable
?RCS:
?RCS:
 Revision 3.0.1.1  1993/08/19  06:42:20  ram
?RCS: patch1: leading config.sh searching was not aborting properly
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file ends up producing the config_h.SH script, which is run to produce
?X: the config.h file.  The file ./.Config_h below contains all the ?H: lines
?X: extracted out of all the units.  Metaconfig itself adds the !GROK!THIS!.
?X: Note that this code isn't included into Configure, but must be shipped with.
?X:
?X: For those who wish to know why the file is config_h.SH instead of the more
?X: natural config.h.SH, well... it is to support systems like MS-DOG. Only one
?X: 'dot' is allowed within the file name, as it is part of the "extension" of
?X: the file. MS-DOG will not let you have two 'dots' because that would mean
?X: two "extensions".
?X:
?MAKE:Config_h: Id End Config_sh Obsol_h myuname cf_time cf_by package src
?MAKE: -pick c_h_weed $@ %<
?MAKE: -pick
 c_h_weed $@ ./Config_h
?MAKE: -pick c_h_weed $@ ./Obsol_h
?T:PERL_CONFIG_SH TOP
?LINT:unclosed !GROK!THIS!
?LINT:extern CONFIG_H CONFIG_SH
?LINT:change CONFIG_H CONFIG_SH
?X:?LINT:nocomment
: Set up for generating config_h.SH
case "$CONFIG_SH" in
") CONFIG_SH=config.sh;;
esac
case "$CONFIG_H" in
") CONFIG_H=config.h;;
esac
case $PERL_CONFIG_SH in
")
 if test -f $CONFIG_SH; then TOP=.;
 elif test -f ../$CONFIG_SH; then TOP=..;
 elif test -f ../../$CONFIG_SH; then TOP=../..;
```

```
 elif test -f ../../../$CONFIG_SH; then TOP=../../..;
 elif test -f ../../../../$CONFIG_SH; then TOP=../../../..;
 else
  echo "Can't find $CONFIG_SH."; exit 1
 fi
 . $TOP/$CONFIG_SH
 ;;
esac
?X: Make sure we are in the directory where the .SH file is located.
case "$0" in
*/*) cd `expr X$0 : 'X\(.*\)/'` ;;
esac
echo "Extracting $CONFIG_H (with variable substitutions)"
?X:
?X: Since we unconditionally translate leading #undef into /*#define, we're
?X: stuck when we really want to have a #undef in $CONFIG_H.
 That's why there
?X: is provision here for #un-def, which is translated back into #undef after
?X: all original #undef have been processed.
?X:
?X: Previously, we changed all
?X:  #undef FOO /**/
?X: into
?X:  /*#define FOO /**/
?X: The xlc compiler (available on IBM's AIX) complains that this is
?X: an illegal attempt to write a nested comment, and warns against it.
?X: There's apparently no way to shut the compiler up, either.
?X: This sed command from Hallvard B Furuseth <h.b.furuseth@usit.uio.no>
?X: changes it to
?X:  /*#define FOO / **/
sed <<!GROK!THIS! >$CONFIG_H -e 's!^#undef\(.*/\)\*!/\*#define\1 \*!' -e 's!^#un-def!#undef!'
/* This file was produced by running the config_h.SH script, which
* gets its values from $CONFIG_SH, which is generally produced by
* running Configure.
*
* Feel free to modify any of this as the need arises.  Note, however,
* that running config_h.SH again will wipe out any changes you've made.
* For a more permanent change edit $CONFIG_SH and
 rerun config_h.SH.
*/

/* Package name      : $package
* Source directory  : $src
* Configuration time: $cf_time
* Configured by     : $cf_by
* Target system     : $myuname
*/
```

```
#ifndef _config_h_
#define _config_h_
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Config_h.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:usesocks: Myread Oldconfig Setvar
?MAKE: -pick add $@ %<
?Y:TOP
?S:usesocks:
?S: This variable conditionally defines the USE_SOCKS symbol,
?S: and indicates that Perl should be built to use SOCKS.
?S:.
?C:USE_SOCKS:
?C: This symbol, if defined, indicates that Perl should
?C: be built to use socks.
?C:.
?H:?%<:#ifndef USE_SOCKS
?H:?%<:#$usesocks USE_SOCKS  /**/
?H:?%<:#endif
?H:.
?LINT:set usesocks
?INIT:: set usesocks on the Configure command line to enable socks.
: Check is we will use socks
?X: We should really have some explanatory text here, and some
?X: automatic setting of sensible defaults.
case "$usesocks" in
$define|true|[yY]*) dflt='y';;
*) dflt='n';;
esac
cat <<EOM

Perl can be built to
 use the SOCKS proxy protocol library.  To do so,
Configure must be run with -Dusesocks.  If you use SOCKS you also need
to use the PerlIO abstraction layer, this will be implicitly selected.

If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
```

```
rp='Build Perl for SOCKS?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*)      val="$undef" ;;
esac
set usesocks
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/usesocks.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: doublesize.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:17:06  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:06  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:doublesize: cat rm_try Myread +cc +ccflags
?MAKE: -pick add $@ %<
?S:doublesize:
?S: This variable contains the value of the DOUBLESIZE symbol, which
?S: indicates to the C program how many bytes there are in a double.
?S:.
?C:DOUBLESIZE:
?C: This symbol contains the
 size of a double, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define DOUBLESIZE $doublesize  /**/
?H:.
?F:!try
: check for length of double
echo " "
case "$doublesize" in
```

```
")
 echo "Checking to see how big your double precision numbers are..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
 printf("%d\n", sizeof(double));
}
EOCP
 if $cc $ccflags -o try try.c >/dev/null 2>&1 ; then
  dflt=`./try`
 else
  dflt='8'
  echo "(I can't seem to compile the test program.  Guessing...)"
 fi
 ;;
*)
 dflt="$doublesize"
 ;;
esac
rp="What is the size of a double precision number (in bytes)?"
. ./myread
doublesize="$ans"
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/doublesize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorprefix.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorprefix.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:usevendorprefix vendorprefix vendorprefixexp +oldvendorprefix: \
 Getfile Loc Oldconfig cat prefix Myread
?MAKE: -pick add $@ %<
?S:usevendorprefix:
```

```
?S: This variable tells whether the vendorprefix
?S: and consequently other vendor* paths are in use.
?S:.
?S:vendorprefix:
?S: This variable holds the full absolute path of the directory below
?S: which
 the vendor will install add-on packages.
?S: See INSTALL for usage and examples.
?S:.
?S:vendorprefixexp:
?S: This variable holds the full absolute path of the directory below
?S: which the vendor will install add-on packages.  Derived from vendorprefix.
?S:.
?S:oldvendorprefix:
?S: This variable is set non-null if the vendorprefix was previously defined
?S: and gets set to a new value. Used internally by Configure only.
?S:.
: Set the vendorprefix variables
$cat <<EOM

The installation process will also create a directory for
vendor-supplied add-ons.  Vendors who supply perl with their system
may find it convenient to place all vendor-supplied files in this
directory rather than in the main distribution directory.  This will
ease upgrades between binary-compatible maintenance versions of perl.

Of course you may also use these directories in whatever way you see
fit.  For example, you might use them to access modules shared over a
company-wide network.

The default answer should be
 fine for most people.
This causes further questions about vendor add-ons to be skipped
and no vendor-specific directories will be configured for perl.

EOM
rp='Do you want to configure vendor-specific add-on directories?'
case "$usevendorprefix" in
define|true|[yY]*) dflt=y ;;
*) : User may have set vendorprefix directly on Configure command line.
 case "$vendorprefix" in
 "|' ') dflt=n ;;
 *) dflt=y ;;
 esac
 ;;
esac
. ./myread
case "$ans" in
```

```
[yY]*) fn=d~+
 rp='Installation prefix to use for vendor-supplied add-ons?'
 case "$vendorprefix" in
 '') dflt="$prefix" ;;
 *)  dflt=$vendorprefix ;;
 esac
 . ./getfile
 : XXX Prefixit unit does not yet support siteprefix and vendorprefix
 oldvendorprefix=''
 case "$vendorprefix" in
 '') ;;
 *) case "$ans" in
  "$prefix") ;;
  *) oldvendorprefix="$prefix";;
  esac
  ;;
 esac
 usevendorprefix="$define"
 vendorprefix="$ans"
 vendorprefixexp="$ansexp"
 ;;
*) usevendorprefix="$undef"
 vendorprefix=''
 vendorprefixexp=''
 ;;
esac
```

Found in path(s):
*
 /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/vendorprefix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getpgrp.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:34:28  ram
?RCS: patch61: new USE_BSD_GETPGRP to detect the getpgrp() flavour
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:15  ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getpgrp d_bsdgetpgrp: Guess Inlibc Setvar cat rm \
 +cc +ccflags +ldflags +libs i_unistd
?MAKE: -pick add $@ %<
?S:d_getpgrp:
?S: This variable conditionally defines HAS_GETPGRP if getpgrp() is
?S: available to get the current process group.
?S:.
?S:d_bsdgetpgrp:
?S: This
 variable conditionally defines USE_BSD_GETPGRP if
?S: getpgrp needs one arguments whereas USG one needs none.
?S:.
?C:HAS_GETPGRP (GETPGRP):
?C: This symbol, if defined, indicates that the getpgrp routine is
?C: available to get the current process group.
?C:.
?C:USE_BSD_GETPGRP:
?C: This symbol, if defined, indicates that getpgrp needs one
?C: arguments whereas USG one needs none.
?C:.
?H:#$d_getpgrp HAS_GETPGRP  /**/
?H:#$d_bsdgetpgrp USE_BSD_GETPGRP /**/
?H:.
?F:!set !set.c
?T:xxx
?LINT:set d_getpgrp d_bsdgetpgrp
: see if getpgrp exists
set getpgrp d_getpgrp
eval $inlibc

@if USE_BSD_GETPGRP || d_bsdgetpgrp
case "$d_getpgrp" in
"$define")
 echo " "
 echo "Checking to see which flavor of getpgrp is in use..."
 $cat >set.c <<EOP
#$i_unistd I_UNISTD
#include <sys/types.h>
#ifdef I_UNISTD
#  include <unistd.h>
#endif
int main()
{
 if (getuid() == 0) {
  printf("(I see you are running Configure as super-user...)\n");
  setuid(1);
```

```
 }
#ifdef TRY_BSD_PGRP
 if (getpgrp(1) ==
 0)
  exit(0);
#else
 if (getpgrp() > 0)
  exit(0);
#endif
 exit(1);
}
EOP
 if $cc -DTRY_BSD_PGRP $ccflags $ldflags -o set set.c $libs >/dev/null 2>&1
  && ./set
 then
  echo "You have to use getpgrp(pid) instead of getpgrp()." >&4
  val="$define"
 elif $cc $ccflags $ldflags -o set set.c $libs >/dev/null 2>&1 && ./set; then
  echo "You have to use getpgrp() instead of getpgrp(pid)." >&4
  val="$undef"
 else
  echo "I can't seem to compile and run the test program."
  if ./usg; then
   xxx="a USG one, i.e. you use getpgrp()."
  else
   # SVR4 systems can appear rather BSD-ish.
   case "$i_unistd" in
   $undef)
    xxx="a BSD one, i.e. you use getpgrp(pid)."
    val="$define"
    ;;
   $define)
    xxx="probably a USG one, i.e. you use getpgrp()."
    val="$undef"
    ;;
   esac
  fi
  echo "Assuming your getpgrp is $xxx" >&4
 fi
 ;;
*) val="$undef";;
esac
set d_bsdgetpgrp
eval $setvar
$rm -f set set.c
@end
```

Found in path(s):

* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getpgrp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: package.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:27:21  ram
?RCS: patch36: beware of non-ascii character sets when translating case
?RCS:
?RCS: Revision 3.0.1.2  1993/11/10  17:37:02  ram
?RCS: patch14: skip definition of spackage if not otherwise used
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:11:10  ram
?RCS: patch10: added spackage, suitable for starting sentences
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:28  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:package spackage:
 Nothing
?MAKE: -pick wipe $@ %<
?S:package:
?S: This variable contains the name of the package being constructed.
?S: It is primarily intended for the use of later Configure units.
?S:.
?S:spackage:
?S: This variable contains the name of the package being constructed,
?S: with the first letter uppercased, i.e. suitable for starting
?S: sentences.
?S:.
?C:PACKAGE:
?C: This variable contains the name of the package being built.
?C:.
?H:#define PACKAGE "$package"
?H:.
?T:first last
: set package name
package='<PACKAGENAME>'
@if spackage
```

```
first=`echo $package | sed -e 's/^\(.\).*/\1/'`
last=`echo $package | sed -e 's/^.\(.*\)/\1/'`
?X:
?X: So early in the Configure script, we don't have ./tr set up and can't
?X: include Tr in our dependency or that would create a cycle. Therefore,
?X: we have to somehow duplicate the work done in Tr. That's life.
?X:
case "`echo AbyZ | tr '[:lower:]' '[:upper:]' 2>/dev/null`" in
ABYZ) spackage=`echo $first | tr '[:lower:]' '[:upper:]'`$last;;
*) spackage=`echo
 $first | tr '[a-z]' '[A-Z]'`$last;;
esac
@end
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/package.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Extensions.U,v$
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: Extensions.U,v $
?RCS:
?MAKE:known_extensions extensions dynamic_ext static_ext nonxs_ext \
 useposix useopcode uselanginfo : \
 Myread hint usedl d_sem d_socket i_db i_dbm i_rpcsvcdbm i_gdbm \
 d_ndbm package test cat rsrc \
 d_msg d_shm osname use64bitint \
 libs d_cplusplus sed ls rm contains trnl sort
?MAKE: -pick add $@ %<
?Y:BOTTOM
?S:known_extensions:
?S: This variable holds a list of all extensions (both XS and non-xs)
?S: included in the package source distribution.  This information is
?S: only really of use during the Perl build, as the list makes no
?S: distinction between extensions which were build and installed, and
?S: those which where not.  See "extensions"
 for the list of extensions
?S: actually built and available.
?S:.
?S:dynamic_ext:
?S: This variable holds a list of XS extension files we want to
?S: link dynamically into the package.  It is used by Makefile.
```

```
?S:.
?S:static_ext:
?S: This variable holds a list of XS extension files we want to
?S: link statically into the package.  It is used by Makefile.
?S:.
?S:nonxs_ext:
?S: This variable holds a list of all non-xs extensions built and
?S: installed by the package.  By default, all non-xs extensions
?S: distributed will be built, with the exception of platform-specific
?S: extensions (currently only one VMS specific extension).
?S:.
?S:extensions:
?S: This variable holds a list of all extension files (both XS and
?S: non-xs) installed with the package.  It is propagated to Config.pm
?S: and is typically used to test whether a particular extension
?S: is available.
?S:.
?S:useposix:
?S: This variable holds either 'true' or 'false' to indicate
?S: whether the POSIX extension should
 be used.  The sole
?S: use for this currently is to allow an easy mechanism
?S: for hints files to indicate that POSIX will not compile
?S: on a particular system.
?S:.
?S:useopcode:
?S: This variable holds either 'true' or 'false' to indicate
?S: whether the Opcode extension should be used.  The sole
?S: use for this currently is to allow an easy mechanism
?S: for users to skip the Opcode extension from the Configure
?S: command line.
?S:.
?S:uselanginfo:
?S: This variable holds either 'true' or 'false' to indicate
?S: whether the I18N::Langinfo extension should be used.  The sole
?S: use for this currently is to allow an easy mechanism for users to skip
?S: this extension from the Configure command line.
?S:.
?T:xxx avail_ext this_ext tdir xs_extensions nonxs_extensions find_extensions
?INIT:: set useposix=false in your hint file to disable the POSIX extension.
?INIT:useposix=true
?INIT:: set useopcode=false in your hint file to disable the Opcode extension.
?INIT:useopcode=true
?INIT::
 set uselanginfo=false in your hint file to disable the I18N::Langinfo extension.
?INIT:uselanginfo=true
?LINT:extern noextensions
?LINT:extern onlyextensions
```

```
?T:keepextensions i
: Check extensions
echo " "
echo "Looking for extensions..." >&4
: If we are using the old config.sh, nonxs_extensions and xs_extensions may
: contain old or inaccurate or duplicate values.
nonxs_extensions="
xs_extensions="
: We do not use find because it might not be available.
: We do not just use MANIFEST because the user may have dropped
: some additional extensions into the source tree and expect them
: to be built.

: Function to recursively find available extensions, ignoring DynaLoader
: NOTE: recursion limit of 10 to prevent runaway in case of symlink madness
: In 5.10.1 and later, extensions are stored in directories
: like File-Glob instead of the older File/Glob/.
find_extensions='
  for xxx in *; do
 case "$xxx" in
    DynaLoader|dynaload) ;;
    *)
    this_ext=`echo "$xxx" | $sed -e s/-/\\\/g`;

   case "$this_ext" in
  Scalar/List/Utils) this_ext="List/Util" ;;
  PathTools)         this_ext="Cwd" ;;
    esac;
    echo " $xs_extensions $nonxs_extensions" > "$tdir/$$.tmp";
    if $contains " $this_ext " "$tdir/$$.tmp"; then
  echo >&4;
  echo "Duplicate directories detected for extension $xxx" >&4;
  echo "Configure cannot correctly recover from this - shall I abort?" >&4;
  case "$knowitall" in
  "") dflt=y;;
  *) dflt=n;;
  esac;
  . ../UU/myread;
  case "$ans" in
  n*|N*) ;;
  *) echo >&4;
     echo "Ok.  Stopping Configure." >&4;
     echo "Please remove the duplicate directory (e.g. using git clean) and then re-run Configure" >&4;
     exit 1;;
  esac;
  echo "Ok.  You will need to correct config.sh before running make." >&4;
    fi;
    $ls -1 "$xxx" > "$tdir/$$.tmp";
```

```
    if   $contains "\.xs$" "$tdir/$$.tmp" > /dev/null 2>&1; then
  xs_extensions="$xs_extensions $this_ext";
    elif $contains "\.c$"  "$tdir/$$.tmp" > /dev/null 2>&1; then
  xs_extensions="$xs_extensions
 $this_ext";
    elif $test -d "$xxx"; then
  nonxs_extensions="$nonxs_extensions $this_ext";
    fi;
    $rm -f "$tdir/$$.tmp";
    ;;
 esac;
   done'
tdir=`pwd`
cd "$rsrc/cpan"
set X
shift
eval $find_extensions
cd "$rsrc/dist"
set X
shift
eval $find_extensions
cd "$rsrc/ext"
set X
shift
eval $find_extensions
set X $xs_extensions
shift
xs_extensions=`echo "$*" | tr ' ' $trnl | $sort | tr $trnl ' '`
set X $nonxs_extensions
shift
nonxs_extensions=`echo "$*" | tr ' ' $trnl | $sort | tr $trnl ' '`
cd "$tdir"
known_extensions=`echo $nonxs_extensions $xs_extensions  | tr ' ' $trnl | $sort | tr $trnl ' '`

: Now see which are supported on this system.
?X: avail_ext lists available XS extensions.
avail_ext="
for xxx in $xs_extensions ; do
 case "$xxx" in
?X: Handle possible DOS 8.3 filename and case alterations
 Amiga*)
  case "$osname" in
  amigaos) avail_ext="$avail_ext $xxx" ;;
  esac
  ;;
 DB_File|db_file)
  case "$i_db" in
  $define) avail_ext="$avail_ext $xxx"
```

```
;;
 esac
 ;;
GDBM_File|gdbm_fil)
 case "$i_gdbm" in
 $define) avail_ext="$avail_ext $xxx" ;;
 esac
 ;;
IPC/SysV|ipc/sysv)
 : XXX Do we need a useipcsysv variable here
 case "${d_msg}${d_sem}${d_shm}" in
 *"${define}"*) avail_ext="$avail_ext $xxx" ;;
 esac
 ;;
NDBM_File|ndbm_fil)
 case "$d_ndbm" in
 $define)
    case "$osname-$use64bitint" in
    hpux-define)
  case "$libs" in
  *-lndbm*) avail_ext="$avail_ext $xxx" ;;
  esac
  ;;
    *) avail_ext="$avail_ext $xxx" ;;
    esac
    ;;
 esac
 ;;
ODBM_File|odbm_fil)
 case "${i_dbm}${i_rpcsvcdbm}" in
 *"${define}"*)
    case "$d_cplusplus" in
    define) ;; # delete as a function name will not work
    *)  case "$osname-$use64bitint" in
  hpux-define)
     case "$libs" in
     *-ldbm*) avail_ext="$avail_ext $xxx" ;;
     esac
     ;;
  *) avail_ext="$avail_ext $xxx" ;;
  esac
  ;;
    esac
    ;;
 esac
 ;;
Opcode|opcode)
 case "$useopcode" in
```

```
 true|define|y) avail_ext="$avail_ext
$xxx" ;;
 esac
 ;;
POSIX|posix)
 case "$useposix" in
 true|define|y) avail_ext="$avail_ext $xxx" ;;
 esac
 ;;
Socket|socket)
 case "$d_socket" in
 true|$define|y) avail_ext="$avail_ext $xxx" ;;
 esac
 ;;
I18N/Langinfo|langinfo)
 case "$uselanginfo" in
 true|define|y) avail_ext="$avail_ext $xxx" ;;
 esac
 ;;
Sys/Syslog|sys/syslog)
 case $osname in
  amigaos) ;; # not really very useful on AmigaOS
  *)
  : XXX syslog requires socket
  case "$d_socket" in
  true|$define|y) avail_ext="$avail_ext $xxx" ;;
  esac
  ;;
 esac
 ;;
threads|threads/shared)
 # threads and threads::shared are special cases.
 # To stop people from asking "Perl 5.8.0 was supposed
 # to have this new fancy threads implementation but my
 # perl doesn't have it" and from people trying to
 # (re)install the threads module using CPAN.pm and
 # CPAN.pm then offering to reinstall Perl 5.8.0,
 # the threads.pm and threads/shared.pm will always be
 # there, croaking informatively ("you
need to rebuild
 # all of Perl with threads, sorry") when threads haven't
 # been compiled in.
 # --jhi
 avail_ext="$avail_ext $xxx"
 ;;
VMS*)
 ;;
Win32*)
```

```
  case "$osname" in
  cygwin) avail_ext="$avail_ext $xxx" ;;
  esac
  ;;
 XS/APItest|xs/apitest)
  # This is just for testing.  Skip it unless we have dynamic loading.

  case "$usedl" in
  $define) avail_ext="$avail_ext $xxx" ;;
  esac
  ;;
 XS/Typemap|xs/typemap)
  # This is just for testing.  Skip it unless we have dynamic loading.
  case "$usedl" in
  $define) avail_ext="$avail_ext $xxx" ;;
  esac
  ;;
 *) avail_ext="$avail_ext $xxx"
  ;;
 esac
done

set X $avail_ext
shift
avail_ext="$*"

case "$onlyextensions" in
") ;;
*)  keepextensions="
   echo "You have requested that only certain extensions be included..." >&4
   for i in $onlyextensions; do
       case " $avail_ext " in
       *" $i "*)
           echo "Keeping extension $i."
           keepextensions="$keepextensions $i"
           ;;
       *) echo "Ignoring
 extension $i." ;;
       esac
   done
   avail_ext="$keepextensions"
   ;;
esac

case "$noextensions" in
") ;;
*)  keepextensions="
   echo "You have requested that certain extensions be ignored..." >&4
```

```
  for i in $avail_ext; do
     case " $noextensions " in
     *" $i "*) echo "Ignoring extension $i." ;;
     *) echo "Keeping extension $i.";
       keepextensions="$keepextensions $i"
       ;;
     esac
  done
  avail_ext="$keepextensions"
  ;;
esac

: Now see which nonxs extensions are supported on this system.
: For now assume all are.
nonxs_ext="
for xxx in $nonxs_extensions ; do
 case "$xxx" in
 VMS*)
  ;;
 *) nonxs_ext="$nonxs_ext $xxx"
  ;;
 esac
done

set X $nonxs_ext
shift
nonxs_ext="$*"

case $usedl in
$define)
 $cat <<EOM
A number of extensions are supplied with $package.  You may choose to
compile these extensions for dynamic loading (the default), compile
them into the $package executable (static loading), or not include
them at all.
  Answer "none" to include no extensions.
Note that DynaLoader is always built and need not be mentioned here.

EOM
 case "$dynamic_ext" in
 ")
  : Exclude those listed in static_ext
  dflt="
  for xxx in $avail_ext; do
   case " $static_ext " in
   *" $xxx "*) ;;
   *) dflt="$dflt $xxx" ;;
   esac
```

```
  done
  set X $dflt
  shift
  dflt="$*"
  ;;
 *) dflt="$dynamic_ext"
  # Perhaps we are reusing an old out-of-date config.sh.
  case "$hint" in
  previous)
   if test X"$dynamic_ext" != X"$avail_ext"; then
    $cat <<EOM
NOTICE:  Your previous config.sh list may be incorrect.
The extensions now available to you are
 ${avail_ext}
but the default list from your previous config.sh is
 ${dynamic_ext}

EOM
   fi
   ;;
  esac
  ;;
 esac
 case "$dflt" in
 ") dflt=none;;
 esac
 rp="What extensions do you wish to load dynamically?"
 . ./myread
 case "$ans" in
?X: Use ' ' so a subsequent Configure will preserve that value.
 none) dynamic_ext=' ' ;;
 *) dynamic_ext="$ans" ;;
 esac

 case "$static_ext"
 in
 ")
  : Exclude those already listed in dynamic linking
  dflt="
  for xxx in $avail_ext; do
   case " $dynamic_ext " in
   *" $xxx "*) ;;
   *) dflt="$dflt $xxx" ;;
   esac
  done
  set X $dflt
  shift
  dflt="$*"
```

```
  ;;
 *)  dflt="$static_ext"
  ;;
 esac

 case "$dflt" in
 ") dflt=none;;
 esac
 rp="What extensions do you wish to load statically?"
 . ./myread
 case "$ans" in
?X: Use ' ' so a subsequent Configure will preserve that value.
 none) static_ext=' ' ;;
 *) static_ext="$ans" ;;
 esac
 ;;
*)
 $cat <<EOM
A number of extensions are supplied with $package.  Answer "none"
to include no extensions.
Note that DynaLoader is always built and need not be mentioned here.

EOM
 case "$static_ext" in
 ") dflt="$avail_ext" ;;
 *) dflt="$static_ext"
  # Perhaps we are reusing an old out-of-date config.sh.
  case "$hint" in
  previous)
   if test X"$static_ext" != X"$avail_ext"; then
    $cat <<EOM
NOTICE:  Your previous config.sh list may be incorrect.
The extensions now available
 to you are
 ${avail_ext}
but the default list from your previous config.sh is
 ${static_ext}

EOM
   fi
   ;;
  esac
  ;;
 esac
 : Exclude those that are not xs extensions
 case "$dflt" in
 ") dflt=none;;
 esac
```

```
 rp="What extensions do you wish to include?"
 . ./myread
 case "$ans" in
?X: Use ' ' so a subsequent Configure will preserve that value.
 none) static_ext=' ' ;;
 *) static_ext="$ans" ;;
 esac
 ;;
esac
#
# Encode is a special case.  If we are building Encode as a static
# extension, we need to explicitly list its subextensions as well.
# For other nested extensions, this is handled automatically by
# the appropriate Makefile.PL.
case " $static_ext " in
 *" Encode "*) # Add the subextensions of Encode
 cd "$rsrc/cpan"
 for xxx in `ls Encode/*/Makefile.PL|awk -F/ '{print $2}'`; do
  static_ext="$static_ext Encode/$xxx"
  known_extensions="$known_extensions Encode/$xxx"
 done
 cd "$tdir"
 ;;
esac

set X $dynamic_ext $static_ext $nonxs_ext
shift
extensions="$*"

# Sanity check:
  We require an extension suitable for use with
# AnyDBM_File, as well as Fcntl and IO.  (Failure to have these
# should show up as failures in the test suite, but it's helpful to
# catch them now.) The 'extensions' list is normally sorted
# alphabetically, so we need to accept either
#    DB_File ... Fcntl ... IO  ....
# or something like
#    Fcntl ... NDBM_File ... IO  ....
case " $extensions"  in
*"_File "*" Fcntl "*" IO "*) ;; # DB_File
*" Fcntl "*"_File "*" IO "*) ;; # GDBM_File
*" Fcntl "*" IO "*"_File "*) ;; # NDBM_File
*) echo "WARNING: Extensions DB_File or *DBM_File, Fcntl, and IO not configured." >&4
  echo "WARNING: The Perl you are building will be quite crippled." >& 4
  ;;
esac

Found in path(s):
```

* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/Extensions.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorlib.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorlib.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:d_vendorlib vendorlib vendorlibexp installvendorlib vendorlib_stem: \
 Getfile Setprefixvar Oldconfig Prefixit package vendorprefix sed \
 installstyle version
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorlib:
?S: This variable contains the eventual value of the VENDORLIB symbol,
?S: which is the name of the private library for this package.
?S: The standard
 distribution will put nothing in this directory.
?S: Vendors who distribute perl may wish to place their own
?S: modules in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorlibexp:
?S: This variable is the ~name expanded version of vendorlib, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorlib="
?S:installvendorlib:
?S: This variable is really the same as vendorlibexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?S:d_vendorlib:
?S: This variable conditionally defines PERL_VENDORLIB.
?S:.
?S:vendorlib_stem:
?S: This variable is $vendorlibexp with any trailing version-specific component
```

```
?S: removed.  The elements in inc_version_list (inc_version_list.U) can
?S: be tacked onto this variable to generate a list of directories to search.
?S:.
?C:PERL_VENDORLIB:
?C: If defined, this symbol contains
 the name of a private library.
?C: The library is private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.  The program
?C: should be prepared to do ~ expansion.
?C: The standard distribution will put nothing in this directory.
?C: Vendors who distribute perl may wish to place their own
?C: modules in this directory with
?C:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?C: or equivalent.  See INSTALL for details.
?C:.
?C:PERL_VENDORLIB_EXP:
?C: This symbol contains the ~name expanded version of VENDORLIB, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?C:PERL_VENDORLIB_STEM:
?C: This define is PERL_VENDORLIB_EXP with any trailing version-specific component
?C: removed.  The elements in inc_version_list (inc_version_list.U) can
?C: be tacked onto this variable to generate a list of directories to search.
?C:.
?H:#$d_vendorlib PERL_VENDORLIB "$vendorlib"  /**/
?H:#$d_vendorlib PERL_VENDORLIB_EXP
 "$vendorlibexp"  /**/
?H:#$d_vendorlib PERL_VENDORLIB_STEM "$vendorlib_stem"  /**/
?H:.
?T:prog
?LINT:change prefixvar
?LINT:set installvendorlib
: Set the vendorlib variables
case "$vendorprefix" in
") d_vendorlib="$undef"
 vendorlib="
 vendorlibexp="
 ;;
*) d_vendorlib="$define"
 : determine where vendor-supplied modules go.
 : Usual default is /usr/local/lib/perl5/vendor_perl/$version
 case "$vendorlib" in
 ")
?X:  remove any trailing -3.0 or other version identification
  prog=`echo $package | $sed 's/-*[0-9.]*$//'`
  case "$installstyle" in
  *lib/perl5*) dflt=$vendorprefix/lib/$package/vendor_$prog/$version ;;
  *)      dflt=$vendorprefix/lib/vendor_$prog/$version ;;
```

```
  esac
  ;;
 *) dflt="$vendorlib"
  ;;
 esac
 fn=d~+
 rp='Pathname for the vendor-supplied library files?'
 . ./getfile
 vendorlib="$ans"
 vendorlibexp="$ansexp"
 ;;
esac
vendorlib_stem=`echo "$vendorlibexp" | sed "s,/$version$,,"`
prefixvar=vendorlib
. ./installprefix
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/vendorlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_whoami.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_whoami.U,v $
?RCS: Revision 3.0.1.1  1993/08/25  14:02:21  ram
?RCS: patch6: added default for i_whoami
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_whoami: Inhdr
?MAKE: -pick add $@ %<
?S:i_whoami (d_whoami):
?S: This variable conditionally defines the I_WHOAMI symbol, which
?S: indicates to the C program that it should include <whoami.h>.
?S:.
?C:I_WHOAMI (WHOAMI):
?C: This symbol,
 if defined, indicates that the program may include
?C: <whoami.h>.
```

```
?C:.
?H:#$i_whoami I_WHOAMI /**/
?H:.
?D:i_whoami=''
?LINT:set i_whoami
: see if there is a whoami.h file
set whoami.h i_whoami
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_whoami.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_perlio.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_perlio.U,v $
?RCS:
?MAKE:useperlio: Myread Oldconfig Setvar
?MAKE: -pick add $@ %<
?Y:TOP
?S:useperlio:
?S: This variable conditionally defines the USE_PERLIO symbol,
?S: and indicates that the PerlIO abstraction should be
?S: used throughout.
?S:.
?C:USE_PERLIO:
?C: This symbol, if defined, indicates that the PerlIO abstraction should
?C: be used throughout.  If not defined, stdio should be
?C: used in a fully backward compatible manner.
?C:.
?H:?%<:#ifndef USE_PERLIO
?H:?%<:#$useperlio USE_PERLIO  /**/
?H:?%<:#endif
?H:.
: Check if we want perlio
useperlio="$define"
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/useperlio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: scriptdir.U,v $
?RCS: Revision 3.0.1.3  1995/09/25  09:17:15  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:46:13  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:32:04  ram
?RCS: patch32: now uses installation prefix
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:scriptdir scriptdirexp installscript:
 afs cat test Getfile Loc \
 Oldconfig +bin Prefixit prefixexp Prefixup
?MAKE: -pick add $@ %<
?Y:TOP
?S:scriptdir:
?S: This variable holds the name of the directory in which the user wants
?S: to put publicly scripts for the package in question.  It is either
?S: the same directory as for binaries, or a special one that can be
?S: mounted across different architectures, like /usr/share. Programs
?S: must be prepared to deal with ~name expansion.
?S:.
?S:scriptdirexp:
?S: This variable is the same as scriptdir, but is filename expanded
?S: at configuration time, for programs not wanting to bother with it.
?S:.
?S:installscript:
?S: This variable is usually the same as scriptdirexp, unless you are on
?S: a system running AFS, in which case they may differ slightly. You
?S: should always use this variable within your makefiles for portability.
?S:.
?C:SCRIPTDIR:
?C: This symbol holds the name of the directory in which the user wants
?C: to put publicly executable scripts for the
```

```
 package in question.  It
?C: is often a directory that is mounted across diverse architectures.
?C: Programs must be prepared to deal with ~name expansion.
?C:.
?C:SCRIPTDIR_EXP:
?C: This is the same as SCRIPTDIR, but is filename expanded at
?C: configuration time, for use in programs not prepared to do
?C: ~name substitutions at run-time.
?C:.
?H:#define SCRIPTDIR "$scriptdir" /**/
?H:#define SCRIPTDIR_EXP "$scriptdirexp" /**/
?H:.
: determine where public executable scripts go
set scriptdir scriptdir
eval $prefixit
case "$scriptdir" in
")
 dflt="$bin"
 : guess some guesses
 $test -d /usr/share/scripts && dflt=/usr/share/scripts
 $test -d /usr/share/bin && dflt=/usr/share/bin
 $test -d /usr/local/script && dflt=/usr/local/script
 $test -d $prefixexp/script && dflt=$prefixexp/script
 set dflt
 eval $prefixup
 ;;
*)  dflt="$scriptdir"
 ;;
esac
$cat <<EOM

Some installations have a separate directory just for executable scripts so
that they can mount it across multiple architectures but
 keep the scripts in
one spot.  You might, for example, have a subdirectory of /usr/share for this.
Or you might just lump your scripts in with all your other executables.

EOM
fn=d~
rp='Where do you keep publicly executable scripts?'
. ./getfile
if $test "X$ansexp" != "X$scriptdirexp"; then
 installscript=''
fi
scriptdir="$ans"
scriptdirexp="$ansexp"
if $afs; then
 $cat <<EOM
```

```
Since you are running AFS, I need to distinguish the directory in which
scripts reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installscript" in
 ") dflt=`echo $scriptdirexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installscript";;
 esac
 fn=de~
 rp='Where will public scripts be installed?'
 . ./getfile
 installscript="$ans"
else
 installscript="$scriptdirexp"
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/scriptdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_passwd.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_passwd.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:37:21  ram
?RCS: patch61: useless unit dropped.
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:09:51  ram
?RCS: patch32: created by ADO
?RCS:
?X:
?X: Useless unit dropped.
?X:
?LINT:empty
```

Found in path(s):

* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_passwd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getnetbyname_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getnetbyname_r getnetbyname_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getnetbyname_r:
?S: This variable conditionally defines the HAS_GETNETBYNAME_R symbol,
?S: which indicates to the C program that the getnetbyname_r()
?S: routine is available.
?S:.
?S:getnetbyname_r_proto:
?S: This variable encodes the prototype of getnetbyname_r.
?S: It is zero if d_getnetbyname_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getnetbyname_r
?S: is defined.
?S:.
?C:HAS_GETNETBYNAME_R:
?C: This symbol, if defined, indicates that
 the getnetbyname_r routine
?C: is available to getnetbyname re-entrantly.
?C:.
?C:GETNETBYNAME_R_PROTO:
?C: This symbol encodes the prototype of getnetbyname_r.
?C: It is zero if d_getnetbyname_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getnetbyname_r
?C: is defined.
?C:.
?H:#$d_getnetbyname_r HAS_GETNETBYNAME_R /**/
?H:#define GETNETBYNAME_R_PROTO $getnetbyname_r_proto /**/
?H:.
?T:try hdrs d_getnetbyname_r_proto
: see if getnetbyname_r exists
set getnetbyname_r d_getnetbyname_r
eval $inlibc
case "$d_getnetbyname_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getnetbyname_r_proto:$usethreads" in
```

```
":define") d_getnetbyname_r_proto=define
 set d_getnetbyname_r_proto getnetbyname_r $hdrs
 eval $hasproto ;;
*) ;;
esac
case "$d_getnetbyname_r_proto" in
define)
case "$getnetbyname_r_proto" in
"|0) try='int getnetbyname_r(const char*, struct netent*, char*, size_t, struct netent**, int*);'
./protochk "$extern_C
$try" $hdrs && getnetbyname_r_proto=I_CSBWRE ;;
esac
case "$getnetbyname_r_proto" in
"|0) try='int getnetbyname_r(const char*, struct netent*, char*, int);'
./protochk "$extern_C $try" $hdrs && getnetbyname_r_proto=I_CSBI ;;
esac
case "$getnetbyname_r_proto" in
"|0) try='struct netent* getnetbyname_r(const char*, struct netent*, char*, int);'
./protochk "$extern_C $try" $hdrs && getnetbyname_r_proto=S_CSBI ;;
esac
case "$getnetbyname_r_proto" in
"|0) try='int getnetbyname_r(const char*, struct netent*, struct netent_data*);'
./protochk "$extern_C $try" $hdrs && getnetbyname_r_proto=I_CSD ;;
esac
case "$getnetbyname_r_proto" in
"|0) d_getnetbyname_r=undef
 getnetbyname_r_proto=0
 echo "Disabling getnetbyname_r, cannot determine prototype." >&4 ;;
* ) case "$getnetbyname_r_proto" in
 REENTRANT_PROTO*) ;;
 *) getnetbyname_r_proto="REENTRANT_PROTO_$getnetbyname_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo
"getnetbyname_r has no prototype, not using it." >&4 ;;
 esac
 d_getnetbyname_r=undef
 getnetbyname_r_proto=0
 ;;
esac
;;
*) getnetbyname_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getnetbyname_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2005 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_unsetenv: Inlibc
?MAKE: -pick add $@ %<
?S:d_unsetenv:
?S: This variable conditionally defines the HAS_UNSETENV symbol, which
?S: indicates to the C program that the unsetenv () routine is available.
?S:.
?C:HAS_UNSETENV:
?C: This symbol, if defined, indicates that the unsetenv () routine is
?C: available for use.
?C:.
?H:#$d_unsetenv HAS_UNSETENV  /**/
?H:.
?LINT:set d_unsetenv
: see if unsetenv exists
set unsetenv d_unsetenv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_unsetenv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_nexttoward: Inlibc
?MAKE: -pick add $@ %<
?S:d_nexttoward:
?S: This variable conditionally defines HAS_NEXTTOWARD if nexttoward()
?S: is available to return the next machine representable long double from
?S: x in direction y.
?S:.
?C:HAS_NEXTTOWARD:
?C: This symbol, if defined, indicates that the nexttoward routine is
?C: available to return the next machine representable long double from
?C: x in direction y.
```

```
?C:.
?H:#$d_nexttoward HAS_NEXTTOWARD  /**/
?H:.
?LINT:set d_nexttoward
: see if nexttoward exists
set nexttoward d_nexttoward
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_nexttoward.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpwent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getpwent_r getpwent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_pwd extern_C
?MAKE: -pick add $@ %<
?S:d_getpwent_r:
?S: This variable conditionally defines the HAS_GETPWENT_R symbol,
?S: which indicates to the C program that the getpwent_r()
?S: routine is available.
?S:.
?S:getpwent_r_proto:
?S: This variable encodes the prototype of getpwent_r.
?S: It is zero if d_getpwent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getpwent_r
?S: is defined.
?S:.
?C:HAS_GETPWENT_R:
?C: This symbol, if defined, indicates that the getpwent_r routine
?C: is available to
 getpwent re-entrantly.
?C:.
?C:GETPWENT_R_PROTO:
?C: This symbol encodes the prototype of getpwent_r.
?C: It is zero if d_getpwent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getpwent_r
?C: is defined.
?C:.
?H:#$d_getpwent_r HAS_GETPWENT_R /**/
?H:#define GETPWENT_R_PROTO $getpwent_r_proto /**/
```

```
?H:.
?T:try hdrs d_getpwent_r_proto
: see if getpwent_r exists
set getpwent_r d_getpwent_r
eval $inlibc
case "$d_getpwent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_pwd pwd.h"
 case "$d_getpwent_r_proto:$usethreads" in
 ":define") d_getpwent_r_proto=define
  set d_getpwent_r_proto getpwent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getpwent_r_proto" in
 define)
 case "$getpwent_r_proto" in
 "|0) try='int getpwent_r(struct passwd*, char*, size_t, struct passwd**);'
 ./protochk "$extern_C $try" $hdrs && getpwent_r_proto=I_SBWR ;;
 esac
 case "$getpwent_r_proto" in
 "|0) try='int getpwent_r(struct passwd*, char*, int, struct passwd**);'
 ./protochk
 "$extern_C $try" $hdrs && getpwent_r_proto=I_SBIR ;;
 esac
 case "$getpwent_r_proto" in
 "|0) try='struct passwd* getpwent_r(struct passwd*, char*, size_t);'
 ./protochk "$extern_C $try" $hdrs && getpwent_r_proto=S_SBW ;;
 esac
 case "$getpwent_r_proto" in
 "|0) try='struct passwd* getpwent_r(struct passwd*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getpwent_r_proto=S_SBI ;;
 esac
 case "$getpwent_r_proto" in
 "|0) try='int getpwent_r(struct passwd*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getpwent_r_proto=I_SBI ;;
 esac
 case "$getpwent_r_proto" in
 "|0) try='int getpwent_r(struct passwd*, char*, int, FILE**);'
 ./protochk "$extern_C $try" $hdrs && getpwent_r_proto=I_SBIH ;;
 esac
 case "$getpwent_r_proto" in
 "|0) d_getpwent_r=undef
  getpwent_r_proto=0
  echo "Disabling getpwent_r, cannot determine prototype." >&4 ;;
 * ) case "$getpwent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getpwent_r_proto="REENTRANT_PROTO_$getpwent_r_proto" ;;
```

```
  esac
  echo
 "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getpwent_r has no prototype, not using it." >&4 ;;
  esac
  d_getpwent_r=undef
  getpwent_r_proto=0
  ;;
 esac
 ;;
*) getpwent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getpwent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:selectminbits: Compile cat rm_try Oldconfig d_select \
 i_time i_systime i_systimek i_sysselct selecttype d_socket \
 byteorder Myread Setvar run i_stdlib ptrsize
?MAKE: -pick add $@ %<
?S:selectminbits:
?S: This variable holds the minimum number of bits operated by select.
?S: That is, if you do select(n, ...), how many bits at least will be
?S: cleared in the masks if some activity is detected.  Usually this
?S: is either n or 32*ceil(n/32), especially many little-endians do
?S: the latter.  This is only useful if
 you have select(), naturally.
?S:.
?C:SELECT_MIN_BITS:
?C: This symbol holds the minimum number of bits operated by select.
?C: That is, if you do select(n, ...), how many bits at least will be
?C: cleared in the masks if some activity is detected.  Usually this
```

```
?C: is either n or 32*ceil(n/32), especially many little-endians do
?C: the latter.  This is only useful if you have select(), naturally.
?C:.
?H:#define SELECT_MIN_BITS $selectminbits /**/
?H:.
?T:bits
?T:safebits
?F:!try
: check for the select 'width'
case "$selectminbits" in
") safebits=`expr $ptrsize \* 8`
   case "$d_select" in
 $define)
  $cat <<EOM

Checking to see on how many bits at a time your select() operates...
EOM
  $cat >try.c <<EOCP
#include <sys/types.h>
#$i_time I_TIME
#$i_systime I_SYS_TIME
#$i_systimek I_SYS_TIME_KERNEL
#ifdef I_TIME
#   include <time.h>
#endif
#ifdef I_SYS_TIME
#   ifdef I_SYS_TIME_KERNEL
# define KERNEL
#   endif
#   include <sys/time.h>
#   ifdef I_SYS_TIME_KERNEL
# undef KERNEL
#   endif
#endif
#$i_sysselct
 I_SYS_SELECT
#ifdef I_SYS_SELECT
#include <sys/select.h>
#endif
#$d_socket HAS_SOCKET
#ifdef HAS_SOCKET
#   include <sys/socket.h> /* Might include <sys/bsdtypes.h> */
#endif
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
```

```
$selecttype b;
#define S sizeof(*(b))
#define MINBITS 64
#define NBYTES (S * 8 > MINBITS ? S : MINBITS/8)
#define NBITS  (NBYTES * 8)
int main() {
   char *s = (char *)malloc(NBYTES);
   struct timeval t;
   int i;
   FILE* fp;
   int fd;

   if (!s)
 exit(1);
   fclose(stdin);
   fp = fopen("try.c", "r");
   if (fp == 0)
     exit(2);
   fd = fileno(fp);
   if (fd < 0)
     exit(3);
   b = ($selecttype)s;
   for (i = 0; i < NBITS; i++)
 FD_SET(i, b);
   t.tv_sec  = 0;
   t.tv_usec = 0;
   select(fd + 1, b, 0, 0, &t);
   for (i = NBITS - 1; i > fd && FD_ISSET(i, b); i--);
   free(s);
   printf("%d\n", i + 1);
   return 0;
}
EOCP
  set try
  if eval $compile_ok; then
   selectminbits=`$run
 ./try 2>/dev/null`
   case "$selectminbits" in
   ") cat >&4 <<EOM
Cannot figure out on how many bits at a time your select() operates.
I'll play safe and guess it is $safebits bits.
EOM
    selectminbits=$safebits
    bits="$safebits bits"
    ;;
   1) bits="1 bit" ;;
   *) bits="$selectminbits bits" ;;
   esac
```

```
  echo "Your select() operates on $bits at a time." >&4
 else
  rp='What is the minimum number of bits your select() operates on?'
  case "$byteorder" in
  12345678) dflt=64 ;;
  1234)  dflt=32 ;;
  *)  dflt=1 ;;
  esac
  . ./myread
  val=$ans
  selectminbits="$val"
 fi
 $rm_try
 ;;
*) : no select, so pick a harmless default
 selectminbits=$safebits
 ;;
esac
;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/selectminbits.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strcoll.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_strcoll.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:12:01  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_strcoll: Inlibc
?MAKE: -pick add $@ %<
?S:d_strcoll:
?S: This variable conditionally defines HAS_STRCOLL if strcoll() is
?S: available to compare strings using collating information.
?S:.
```

```
?C:HAS_STRCOLL:
?C: This symbol, if defined, indicates that the strcoll routine
 is
?C: available to compare strings using collating information.
?C:.
?H:#$d_strcoll HAS_STRCOLL /**/
?H:.
?LINT:set d_strcoll
: see if strcoll exists
set strcoll d_strcoll
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strcoll.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_isascii.U,v 3.0.1.2 1994/10/29 16:13:39 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_isascii.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:13:39  ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:09:32  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_isascii: Compile cat rm Setvar i_stdlib
?MAKE: -pick add $@ %<
?S:d_isascii:
?S: This variable conditionally defines the HAS_ISASCII constant,
?S: which indicates
 to the C program that isascii() is available.
?S:.
?C:HAS_ISASCII:
?C: This manifest constant lets the C program know that isascii
?C: is available.
?C:.
?H:#$d_isascii HAS_ISASCII  /**/
```

```
?H:.
?LINT:set d_isascii
?X: Can't use Inlibc because isascii() might be a macro.
: Look for isascii
echo " "
$cat >isascii.c <<EOCP
#include <stdio.h>
#include <ctype.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() {
 int c = 'A';
 if (isascii(c))
  exit(0);
 else
  exit(1);
}
EOCP
set isascii
if eval $compile; then
 echo "isascii() found." >&4
 val="$define"
else
 echo "isascii() NOT found." >&4
 val="$undef"
fi
set d_isascii
eval $setvar
$rm -f isascii*
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_isascii.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_stdlib.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_stdlib.U,v $
```

```
?RCS: Revision 3.0  1993/08/18  12:08:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_stdlib: Nothing
?MAKE: -pick add $@ %<
?S:i_stdlib:
?S: This variable unconditionally defines the I_STDLIB symbol.
?S:.
?C:I_STDLIB:
?C: This symbol is always defined, indicating that <stdlib.h> exists
?C: and should be included.
?C:.
?H:#define I_STDLIB  /**/
?H:.
: stub, used only to satisfy other units
i_stdlib='define'
```

Found in
 path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_stdlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_machcthr: Inhdr usethreads
?MAKE: -pick add $@ %<
?S:i_machcthr:
?S: This variable conditionally defines the I_MACH_CTHREADS symbol,
?S: and indicates whether a C program should include <mach/cthreads.h>.
?S:.
?C:I_MACH_CTHREADS:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <mach/cthreads.h>.
?C:.
?H:#$i_machcthr   I_MACH_CTHREADS /**/
?H:.
: see if mach cthreads are available
if test "X$usethreads" = "X$define"; then
 set mach/cthreads.h i_machcthr
```

```
 eval $inhdr
else
 i_machcthr="$undef"
fi
```

Found
 in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/i_machcthr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2009 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_inetntop: Inlibc
?MAKE: -pick add $@ %<
?S:d_inetntop:
?S: This variable conditionally defines the HAS_INETNTOP symbol,
?S: which indicates to the C program that the inet_ntop() function
?S: is available.
?S:.
?C:HAS_INETNTOP:
?C: This symbol, if defined, indicates that the inet_ntop() function
?C: is available to parse IPv4 and IPv6 strings.
?C:.
?H:#$d_inetntop HAS_INETNTOP  /**/
?H:.
?LINT:set d_inetntop
: see if inet_ntop exists
set inet_ntop d_inetntop
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_inetntop.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
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```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_ldbl_dig: Myread contains cat rm Setvar \
 cppstdin cppflags cppminus
?MAKE: -pick add $@ %<
?S:d_ldbl_dig:
?S: This variable conditionally defines d_ldbl_dig if this system's
?S: header files provide LDBL_DIG, which is the number of significant
?S: digits in a long double precision number.
?S:.
?C:HAS_LDBL_DIG:
?C: This symbol, if defined, indicates that this system's <float.h>
?C: or <limits.h> defines the symbol LDBL_DIG, which is the number
?C: of significant digits in a long double precision number. Unlike
?C: for
 DBL_DIG, there's no good guess for LDBL_DIG if it is undefined.
?C:.
?H:#$d_ldbl_dig HAS_LDBL_DIG /* */
?H:.
?F:!ldbl_dig.c
?LINT:set d_ldbl_dig
: See if number of significant digits in a double precision number is known
echo " "
$cat >ldbl_dig.c <<EOM
#include <limits.h>
#include <float.h>
#ifdef LDBL_DIG
printf("Contains LDBL_DIG");
#endif
EOM
$cppstdin $cppflags $cppminus < ldbl_dig.c >ldbl_dig.E 2>/dev/null
if $contains 'LDBL_DIG' ldbl_dig.E >/dev/null 2>&1; then
 echo "LDBL_DIG found." >&4
 val="$define"
else
 echo "LDBL_DIG NOT found." >&4
 val="$undef"
fi
$rm -f ldbl_dig.?
set d_ldbl_dig
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_ldbl_dig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endnetent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_endnetent_r endnetent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_endnetent_r:
?S: This variable conditionally defines the HAS_ENDNETENT_R symbol,
?S: which indicates to the C program that the endnetent_r()
?S: routine is available.
?S:.
?S:endnetent_r_proto:
?S: This variable encodes the prototype of endnetent_r.
?S: It is zero if d_endnetent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endnetent_r
?S: is defined.
?S:.
?C:HAS_ENDNETENT_R:
?C: This symbol, if defined, indicates that the endnetent_r routine
?C: is
 available to endnetent re-entrantly.
?C:.
?C:ENDNETENT_R_PROTO:
?C: This symbol encodes the prototype of endnetent_r.
?C: It is zero if d_endnetent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endnetent_r
?C: is defined.
?C:.
?H:#$d_endnetent_r HAS_ENDNETENT_R /**/
?H:#define ENDNETENT_R_PROTO $endnetent_r_proto /**/
?H:.
?T:try hdrs d_endnetent_r_proto
: see if endnetent_r exists
set endnetent_r d_endnetent_r
eval $inlibc
case "$d_endnetent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_endnetent_r_proto:$usethreads" in
 ":define") d_endnetent_r_proto=define
  set d_endnetent_r_proto endnetent_r $hdrs
  eval $hasproto ;;
 *) ;;
```

```
 esac
 case "$d_endnetent_r_proto" in
 define)
 case "$endnetent_r_proto" in
"|0) try='int endnetent_r(struct netent_data*);'
 ./protochk "$extern_C $try" $hdrs && endnetent_r_proto=I_D ;;
 esac
 case "$endnetent_r_proto" in
"|0) try='void endnetent_r(struct netent_data*);'
 ./protochk
"$extern_C $try" $hdrs && endnetent_r_proto=V_D ;;
 esac
 case "$endnetent_r_proto" in
"|0) d_endnetent_r=undef
  endnetent_r_proto=0
  echo "Disabling endnetent_r, cannot determine prototype." >&4 ;;
* ) case "$endnetent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) endnetent_r_proto="REENTRANT_PROTO_$endnetent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "endnetent_r has no prototype, not using it." >&4 ;;
  esac
  d_endnetent_r=undef
  endnetent_r_proto=0
  ;;
 esac
 ;;
*) endnetent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_endnetent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorarch.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
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```

```
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorarch.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:d_vendorarch vendorarch vendorarchexp installvendorarch: sed Getfile \
 Setprefixvar Oldconfig Prefixit archname vendorlib vendorprefix test
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorarch:
?S: This variable contains the value of the PERL_VENDORARCH symbol.
?S: It may have a ~ on the front.
?S: The standard distribution will put nothing in this directory.
?S: Vendors
 who distribute perl may wish to place their own
?S: architecture-dependent modules and extensions in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorarchexp:
?S: This variable is the ~name expanded version of vendorarch, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorarch=''
?S:installvendorarch:
?S: This variable is really the same as vendorarchexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?S:d_vendorarch:
?S: This variable conditionally defined PERL_VENDORARCH.
?S:.
?C:PERL_VENDORARCH:
?C: If defined, this symbol contains the name of a private library.
?C: The library is private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.
?C: It may have a ~ on the front.
?C: The standard distribution will put nothing in this
 directory.
?C: Vendors who distribute perl may wish to place their own
?C: architecture-dependent modules and extensions in this directory with
?C:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?C: or equivalent.  See INSTALL for details.
?C:.
?C:PERL_VENDORARCH_EXP:
?C: This symbol contains the ~name expanded version of PERL_VENDORARCH, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
```

```
?C:.
?H:#$d_vendorarch PERL_VENDORARCH "$vendorarch"  /**/
?H:#$d_vendorarch PERL_VENDORARCH_EXP "$vendorarchexp"  /**/
?H:.
?LINT:change prefixvar
?LINT:set installvendorarch
: Set the vendorarch variables
case "$vendorprefix" in
") d_vendorarch="$undef"
 vendorarch="
 vendorarchexp="
 ;;
*) d_vendorarch="$define"
 : determine where vendor-supplied architecture-dependent libraries go.
 : vendorlib  default is /usr/local/lib/perl5/vendor_perl/$version
 : vendorarch default is /usr/local/lib/perl5/vendor_perl/$version/$archname
 : vendorlib may have an optional trailing
 /share.
 case "$vendorarch" in
 ") dflt=`echo $vendorlib | $sed 's,/share$,,'`
  dflt="$dflt/$archname"
  ;;
 *) dflt="$vendorarch" ;;
 esac
 fn=d~+
 rp='Pathname for vendor-supplied architecture-dependent files?'
 . ./getfile
 vendorarch="$ans"
 vendorarchexp="$ansexp"
 ;;
esac
prefixvar=vendorarch
. ./installprefix
if $test X"$vendorarch" = X"$vendorlib"; then
 d_vendorarch="$undef"
else
 d_vendorarch="$define"
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/vendorarch.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: prefix.U,v $
?RCS: Revision 3.0.1.2  1995/01/30  14:44:05  ram
?RCS: patch49: new prefixexp variable holding a fully expanded prefix
?RCS: patch49: save off previous prefix value in oldprefix if changed (WED)
?RCS: patch49: added the INSTALLPREFIX define for C programs to use (WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:31:34  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:prefix prefixexp +oldprefix: Getfile Loc Oldconfig
 cat package
?MAKE: -pick add $@ %<
?S:prefix:
?S: This variable holds the name of the directory below which the
?S: user will install the package.  Usually, this is /usr/local, and
?S: executables go in /usr/local/bin, library stuff in /usr/local/lib,
?S: man pages in /usr/local/man, etc.  It is only used to set defaults
?S: for things in bin.U, mansrc.U, privlib.U, or scriptdir.U.
?S:.
?S:prefixexp:
?S: This variable holds the full absolute path of the directory below
?S: which the user will install the package.  Derived from prefix.
?S:.
?S:oldprefix:
?S: This variable is set non-null if the prefix was previously defined
?S: and gets set to a new value. Used internally by Configure only.
?S:.
?C:INSTALLPREFIX:
?C: This symbol contains the name of the install prefix for this package.
?C:.
?H:#define INSTALLPREFIX "$prefix"  /**/
?H:.
: determine root of directory hierarchy where package will be installed.
case "$prefix" in
")
 dflt=`./loc . /usr/local /usr/local /local /opt
 /usr`
 ;;
*)
 dflt="$prefix"
```

```
 ;;
esac
$cat <<EOM

By default, $package will be installed in $dflt/bin, manual
pages under $dflt/man, etc..., i.e. with $dflt as prefix for
all installation directories. Typically set to /usr/local, but you
may choose /usr if you wish to install $package among your system
binaries. If you wish to have binaries under /bin but manual pages
under /usr/local/man, that's ok: you will be prompted separately
for each of the installation directories, the prefix being only used
to set the defaults.

EOM
fn=d~
rp='Installation prefix to use?'
. ./getfile
oldprefix=''
case "$prefix" in
'') ;;
*)
 case "$ans" in
 "$prefix") ;;
 *) oldprefix="$prefix";;
 esac
 ;;
esac
prefix="$ans"
prefixexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/prefix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: perl5.U,v $
?RCS:
?RCS: Copyright (c) 2000 Andrew Dougherty
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: perl5.U,v $
?RCS:
?X:
?X: The purpose of this unit is to locate a previously installed
?X: version of perl5 suitable for running inc_version_list.U.
?X: We check for 5.005 and later because inc_version_list is
```

```
?X: irrelevant for earlier versions.
?X:
?MAKE:perl5: path_sep binexp test sed exe_ext
?MAKE: -pick add $@ %<
?Y:TOP
?S:perl5:
?S: This variable contains the full path (if any) to a previously
?S: installed perl5.005 or later suitable for running the script
?S: to determine inc_version_list.
?S:.
?T: tdir
: Find perl5.005 or later.
echo "Looking for a previously installed perl5.005 or later... "
case "$perl5" in
") for tdir in `echo "$binexp$path_sep$PATH" | $sed "s/$path_sep/
 /g"`; do
  : Check if this perl is recent and can load a simple module
  if $test -x $tdir/perl$exe_ext && $tdir/perl -Mless -e 'use 5.005;' >/dev/null 2>&1; then
   perl5=$tdir/perl
   break;
  elif $test -x $tdir/perl5$exe_ext && $tdir/perl5 -Mless -e 'use 5.005;' >/dev/null 2>&1; then
   perl5=$tdir/perl5
   break;
  fi
 done
 ;;
*) perl5="$perl5"
 ;;
esac
case "$perl5" in
") echo "None found.  That's ok.";;
*) echo "Using $perl5." ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/perl5.U
No license file was found, but licenses were detected in source scan.

```
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
```

```
?MAKE:uidsign: Myread Typedef uidtype Compile run
?MAKE: -pick add $@ %<
?S:uidsign:
?S: This variable contains the signedness of a uidtype.
?S: 1 for unsigned, -1 for signed.
?S:.
?C:Uid_t_sign:
?C: This symbol holds the signedness of a Uid_t.
?C: 1 for unsigned, -1 for signed.
?C:.
?H:#define Uid_t_sign $uidsign  /* UID sign */
?H:.
?T:yyy zzz
?F:!try
: Check if UID is signed
echo " "
case "$uidtype" in
*_t) zzz="$uidtype" ;;
*)   zzz="uid"  ;;
esac
echo "Checking the sign of $zzz..." >&4
cat > try.c <<EOCP
#include <sys/types.h>
#include
 <stdio.h>
int main() {
 $uidtype foo = -1;
 if (foo < 0)
  printf("-1\n");
 else
  printf("1\n");
}
EOCP
set try
if eval $compile; then
 yyy=`$run ./try`
 case "$yyy" in
 ") uidsign=1
  echo "(I can't execute the test program--guessing unsigned.)" >&4
  ;;
 *) uidsign=$yyy
  case "$uidsign" in
   1) echo "Your $zzz is unsigned." ;;
  -1) echo "Your $zzz is signed."   ;;
  esac
  ;;
 esac
else
```

```
 uidsign=1
 echo "(I can't compile the test program--guessing unsigned.)" >&4
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/uidsign.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sunmath.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sunmath: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sunmath:
?S: This variable conditionally defines the I_SUNMATH symbol, and indicates
?S: whether a C program should include <sunmath.h>.
?S:.
?C:I_SUNMATH:
?C: This symbol, if defined, indicates that <sunmath.h> exists and
?C: should be included.
?C:.
?H:#$i_sunmath I_SUNMATH  /**/
?H:.
?LINT:set i_sunmath
: see if this is a sunmath.h system
set sunmath.h i_sunmath
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_sunmath.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: charsize.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:07:13  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:34  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:charsize: Assert Myread cat rm_try +cc +ccflags echo n c
?MAKE: -pick add $@ %<
?S:charsize:
?S: This variable contains the value of the CHARSIZE symbol, which
?S: indicates to the C program how many bytes there are in a character.
?S:.
?C:CHARSIZE:
?C: This symbol contains
 the size of a char, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define CHARSIZE $charsize
?H:.
?T:size s
: check for length of character
echo " "
$echo $n "Checking to see how big your characters are...$c" >&4
for size in 1 2 4 8 error; do
 $cat >try.c <<EOCP
#include "static_assert.h"
char foo;
int main()
{
 STATIC_ASSERT($size == sizeof(foo));
 return 0;
}
EOCP
 if $cc -c $ccflags try.c >/dev/null 2>&1; then break; fi
done
case "$size" in
error)
 echo " cannot compute it." >&4
 dflt=1
 rp="What is the size of a character (in bytes)?"
 . ./myread
 charsize="$ans"
 ;;
*)
 case "$size" in
 1) s="";;
 *) s='s';;
```

```
 esac
 echo " $size byte$s." >&4
 charsize=$size
 ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/charsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtold: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtold:
?S: This variable conditionally defines the HAS_STRTOLD symbol, which
?S: indicates to the C program that the strtold() routine is available.
?S:.
?C:HAS_STRTOLD:
?C: This symbol, if defined, indicates that the strtold routine is
?C: available to convert strings to long doubles.
?C:.
?H:#$d_strtold HAS_STRTOLD  /**/
?H:.
?LINT:set d_strtold
: see if strtold exists
set strtold d_strtold
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strtold.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_lrint: Inlibc
?MAKE: -pick add $@ %<
?S:d_lrint:
?S: This variable conditionally defines the HAS_LRINT symbol, which
```

```
?S: indicates to the C program that the lrint() routine is available
?S: to return the integral value closest to a double (according
?S: to the current rounding mode).
?S:.
?C:HAS_LRINT:
?C: This symbol, if defined, indicates that the lrint routine is
?C: available to return the integral value closest to a double
?C: (according to the current rounding mode).
?C:.
?H:#$d_lrint HAS_LRINT  /**/
?H:.
?LINT:set d_lrint
: see if lrint exists
set lrint d_lrint
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_lrint.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS:
?MAKE:d_dirfd: Compile cat rm Setvar i_dirent i_sysdir i_sysndir i_systypes i_stdlib
?MAKE: -pick add $@ %<
?S:d_dirfd:
?S: This variable conditionally defines the HAS_DIRFD constant,
?S: which indicates to the C program that dirfd() is available
?S: to return the file descriptor of a directory stream.
?S:.
?C:HAS_DIRFD:
?C: This manifest constant lets the C program know that dirfd
?C: is available.
?C:.
?H:#$d_dirfd HAS_DIRFD  /**/
?H:.
?LINT:set d_dirfd
?X: Can't use Inlibc because dirfd() might be a macro.
: Look
```

```
 for dirfd
echo " "
$cat >dirfd.c <<EOM
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_dirent I_DIRENT  /**/
#$i_sysdir I_SYS_DIR  /**/
#$i_sysndir I_SYS_NDIR  /**/
#$i_systypes I_SYS_TYPES /**/
#if defined(I_SYS_TYPES)
#include <sys/types.h>
#endif
#if defined(I_DIRENT)
#include <dirent.h>
#else
#ifdef I_SYS_NDIR
#include <sys/ndir.h>
#else
#ifdef I_SYS_DIR
#include <sys/dir.h>
#endif
#endif
#endif
int main() {
 DIR *dirp = opendir(".");
 if (dirfd(dirp) >= 0)
  exit(0);
 else
  exit(1);
}
EOM
val=$undef
set dirfd
if eval $compile; then
 val="$define"
fi
case "$val" in
$define) echo "dirfd() found." >&4 ;;
*)  echo "dirfd() NOT found." >&4 ;;
esac
set d_dirfd
eval $setvar
$rm -f dirfd*
```

Found in path(s):

* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_dirfd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_mmap.U,v $
?RCS: Revision 3.0.1.1  1993/12/15  08:19:12  ram
?RCS: patch15: created
?RCS:
?MAKE:d_mmap: Inlibc
?MAKE: -pick add $@ %<
?S:d_mmap:
?S: This variable conditionally defines HAS_MMAP if mmap() is
?S: available to map a file into memory.
?S:.
?C:HAS_MMAP:
?C: This symbol, if defined, indicates that the mmap system call is
?C: available to map a file into memory.
?C:.
?H:#$d_mmap HAS_MMAP  /**/
?H:.
?LINT:set d_mmap
: see if mmap exists
set mmap d_mmap
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_mmap.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sethostent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
```

```
?RCS:
?MAKE:d_sethostent_r sethostent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_sethostent_r:
?S: This variable conditionally defines the HAS_SETHOSTENT_R symbol,
?S: which indicates to the C program that the sethostent_r()
?S: routine is available.
?S:.
?S:sethostent_r_proto:
?S: This variable encodes the prototype of sethostent_r.
?S: It is zero if d_sethostent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_sethostent_r
?S: is defined.
?S:.
?C:HAS_SETHOSTENT_R:
?C: This symbol, if defined, indicates that the sethostent_r routine
?C: is
 available to sethostent re-entrantly.
?C:.
?C:SETHOSTENT_R_PROTO:
?C: This symbol encodes the prototype of sethostent_r.
?C: It is zero if d_sethostent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_sethostent_r
?C: is defined.
?C:.
?H:#$d_sethostent_r HAS_SETHOSTENT_R /**/
?H:#define SETHOSTENT_R_PROTO $sethostent_r_proto /**/
?H:.
?T:try hdrs d_sethostent_r_proto
: see if sethostent_r exists
set sethostent_r d_sethostent_r
eval $inlibc
case "$d_sethostent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_sethostent_r_proto:$usethreads" in
 ":define") d_sethostent_r_proto=define
  set d_sethostent_r_proto sethostent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_sethostent_r_proto" in
 define)
 case "$sethostent_r_proto" in
 "|0) try='int sethostent_r(int, struct hostent_data*);'
 ./protochk "$extern_C $try" $hdrs && sethostent_r_proto=I_ID ;;
 esac
```

```
 case "$sethostent_r_proto" in
 "|0) try='void
 sethostent_r(int, struct hostent_data*);'
 ./protochk "$extern_C $try" $hdrs && sethostent_r_proto=V_ID ;;
 esac
 case "$sethostent_r_proto" in
 "|0) d_sethostent_r=undef
  sethostent_r_proto=0
  echo "Disabling sethostent_r, cannot determine prototype." >&4 ;;
 * ) case "$sethostent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) sethostent_r_proto="REENTRANT_PROTO_$sethostent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "sethostent_r has no prototype, not using it." >&4 ;;
  esac
  d_sethostent_r=undef
  sethostent_r_proto=0
  ;;
 esac
 ;;
*) sethostent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_sethostent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: orgname.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: orgname.U,v $
?RCS: Revision 3.0.1.1  1993/09/13  16:10:25  ram
?RCS: patch10: added support for /local/src to the search (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:27  ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:orgname: sed cat Myread Loc Oldconfig
?MAKE: -pick add $@ %<
?S:orgname:
?S: This variable contains the eventual value of the ORGNAME symbol,
?S: which contains either the organizaton name or the full pathname
?S: of
 a file containing the organization name.
?S:.
?C:ORGNAME:
?C: This symbol contains either the organizaton name or the full pathname
?C: of a file containing the organization name, which the program must
?C: be prepared to open and substitute the contents of.
?C:.
?H:#define ORGNAME "$orgname"  /**/
?H:.
?T:longshots xxx
: get organization name
longshots='/local/src /usr/src/new /usr/src/local /usr/local/src'
case "$orgname" in
") if xxx=`./loc news/src/defs.h x $longshots`; then
  dflt=`$sed -n 's/^.*MYORG[  ]*"\(.*\)".*$/\1/p' $xxx`
 else
  dflt=''
 fi
 ;;
*)  dflt="$orgname";;
esac
$cat << 'EOH'

Please type the name of your organization as you want it to appear on the
Organization line of outgoing articles.  (It's nice if this also specifies
your location.  Your city name is probably sufficient if well known.)
For example:

   University of Southern North Dakota, Hoople

You may also put the name of a file, as long as it begins with a slash.
For example:

   /etc/organization

EOH
orgname=""
while
 test "X$orgname" = "X"; do
 rp='Organization:'
```

```
 . ./myread
 orgname="$ans"
done
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/orgname.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_wcrtomb: Inlibc
?MAKE: -pick add $@ %<
?S:d_wcrtomb:
?S: This variable conditionally defines the HAS_WCRTOMB symbol if the
?S: wcrtomb() routine is available to be used to convert a wide character
?S: into a multi-byte character.
?S:.
?C:HAS_WCRTOMB:
?C: This symbol, if defined, indicates that the wcrtomb routine is
?C: available to convert a wide character into a multi-byte character.
?C:.
?H:#$d_wcrtomb HAS_WCRTOMB /**/
?H:.
?LINT: set d_wcrtomb
: see if wcrtomb exists
set wcrtomb d_wcrtomb
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_wcrtomb.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysstat.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysstat.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:48:30  ram
?RCS: patch61: created
?RCS:
?MAKE:i_sysstat: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysstat:
?S: This variable conditionally defines the I_SYS_STAT symbol,
?S: and indicates whether a C program should include <sys/stat.h>.
?S:.
?C:I_SYS_STAT (I_SYSSTAT):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/stat.h>.
?C:.
?H:#$i_sysstat I_SYS_STAT  /**/
?H:.
?LINT:set
 i_sysstat
: see if sys/stat.h is available
set sys/stat.h i_sysstat
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sysstat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_setlocale d_setlocale_accepts_any_locale_name d_has_C_UTF8: \
 cat Compile run rm_try i_locale i_wctype d_towupper Setvar Myread
?MAKE: -pick add $@ %<
?S:d_has_C_UTF8:
?S: This variable is set to either "true" or "false" depending on
?S: whether the compilation system supports the C.UTF-8 locale.
?S:.
?S:d_setlocale:
?S: This variable conditionally defines HAS_SETLOCALE if setlocale() is
```

```
?S: available to handle locale-specific ctype implementations.
?S:.
?S:d_setlocale_accepts_any_locale_name:
?S: This
 variable conditionally defines SETLOCALE_ACCEPTS_ANY_LOCALE_NAME
?S: if setlocale() accepts any locale name.
?S:.
?C:HAS_SETLOCALE:
?C: This symbol, if defined, indicates that the setlocale routine is
?C: available to handle locale-specific ctype implementations.
?C:.
?C:SETLOCALE_ACCEPTS_ANY_LOCALE_NAME:
?C: This symbol, if defined, indicates that the setlocale routine is
?C: available and it accepts any input locale name as valid.
?C:.
?H:#$d_setlocale HAS_SETLOCALE /**/
?H:#$d_setlocale_accepts_any_locale_name SETLOCALE_ACCEPTS_ANY_LOCALE_NAME /**/
?H:.
?F:!try
?T:LC_CTYPE c_utf8_locale
: check for setlocale function and behavior
case "$d_setlocale" in
")
$cat >&4 <<EOM

Checking to see if you have setlocale() and its behavior
EOM
$cat >try.c <<EOCP
#include <stdlib.h>
#include <string.h>
#$i_locale I_LOCALE
#ifdef I_LOCALE
#  include <locale.h>
#endif
#$i_wctype I_WCTYPE
#ifdef I_WCTYPE
#  include <wctype.h>
#endif

int main() {
   const char * invalid_name
 = "\a";   /* This is really invalid! */
   int accepts_any_locale_name = 0;
   int has_C_UTF8 = 0;
   unsigned char bad_setlocale = 255;

   /* If LC_CTYPE isn't defined the compilation will fail, and locales will be
    * disabled.  It's hard to imagine an instance where meaningful locale
```

```
 * handling could be done without LC_CTYPE */
const char *  name = setlocale(LC_CTYPE, "C");

if (name == NULL || strcmp(name, "C") != 0) {
    exit(bad_setlocale);
}

name = setlocale(LC_CTYPE, invalid_name);
if (name != NULL) {

    /* Let it pass if it accepts the name but gives back one of the C
     * locales */
    if (strcmp(name, "C") != 0 && strcmp(name, "C.UTF-8") != 0) {
        accepts_any_locale_name = 1;
    }
}

name = setlocale(LC_CTYPE, "C.UTF-8");
if (name != NULL) {
    unsigned char y_with_diaeresis = ('A' == 193) ? 0xDF : 0xFF;

#$d_towupper HAS_TOWUPPER
#ifdef HAS_TOWUPPER

    /* We assume that if
 the machine doesn't have the C99 towupper, it
     * doesn't have C.UTF-8, even if we successfully changed locales to
     * include it.  This seems safer even on platforms that didn't accept
     * the really invalid name */

    if (towupper(y_with_diaeresis) == 0x178) {
        has_C_UTF8 = 1;
    }

#endif

}

#if 0

/* Currently unused code to determine if LC_ALL with disparate values uses
 * category = value pairs or positional, and to determine the separator
 * between the categories.  We could add code so that if the separator were
 * > '9', we subtract 10; similarly for 'Z' and 'z', and then just about
 * every possible ASCII separator would fit in the 5 bits available in the
 * exit code.  This would not be true in EBCDIC.  And then if LC_ALL is
 * positional, we probably would want to know the order of the categories.
 * Using a file between the C program and the shell script would really be
```

```
    * require to do that
 */
#ifdef LC_ALL

   unsigned char min_separator = ' ' - 1;
   unsigned char separator = min_separator;
   int uses_name_value_pair_names = 0;

   name = setlocale(LC_ALL, "C");
   if (name == NULL || strcmp(name, "C") != 0) {
       exit(bad_setlocale);
   }

   if (has_C_UTF8) {
       char * pos;

       name = setlocale(LC_CTYPE, "C.UTF-8");
       if (name == NULL) {
           exit(bad_setlocale);
       }
       name = setlocale(LC_ALL, NULL);
       if (name == NULL) {
           exit(bad_setlocale);
       }

       pos = strstr(name, "LC_CTYPE" "=C.UTF-8");
       if (pos != NULL) {
           uses_name_value_pair_names = 1;
           if (pos == name) {
               separator = name[sizeof("LC_CTYPE=C.UTF-8") - 1];
           }
           else {
               separator = *(pos - 1);
           }
       }
       else {
           pos = strstr(name, "C.UTF-8");
           if (pos == NULL) {
               /* bad */
           }

  else if (pos == name) {
               separator = name[sizeof("C.UTF-8") - 1];
           }
           else {
               separator = *(pos - 1);
           }
       }
```

```
  }

#endif
#endif

  exit( 0 /* (separator - min_separator) << 3
      | uses_name_value_pair_names      << 2
        */
      | has_C_UTF8                      << 1
      | accepts_any_locale_name);

}
EOCP
val=
set d_setlocale
eval $setvar
case $d_setlocale in
  $undef) d_setlocale_accepts_any_locale_name="$undef"
          d_has_C_UTF8="false"
          ;;
  *) set try
     if eval $compile; then
        echo "Your system has setlocale()..." >&4
        $run ./try
        case $? in
           0) echo "and it seems sane; you don't have a C.UTF-8 locale" >&4
              d_setlocale="$define"
              d_setlocale_accepts_any_locale_name="$undef"
              d_has_C_UTF8="false"
              ;;
           1) echo "and it seems sane, but accepts
 any locale name as valid" >&4
              d_setlocale="$define"
              d_setlocale_accepts_any_locale_name="$define"
              d_has_C_UTF8="false"
              ;;
           2) echo "and it seems sane; you have a C.UTF-8 locale" >&4
              d_setlocale="$define"
              d_setlocale_accepts_any_locale_name="$undef"
              d_has_C_UTF8="true"
              ;;
           3) echo "and it seems sane, but accepts any locale name as valid" >&4
              d_setlocale="$define"
              d_setlocale_accepts_any_locale_name="$define"
              d_has_C_UTF8="true"
              ;;
           *) echo "but it doesn't seem to work, so we won't use it." >&4
              d_setlocale="$undef"
```

```
            d_setlocale_accepts_any_locale_name="$undef"
            d_has_C_UTF8="false"
            ;;
        esac
    else
        echo "your system does not have setlocale()"
 >&4
        d_setlocale="$undef"
        d_setlocale_accepts_any_locale_name="$undef"
        d_has_C_UTF8="false"
    fi
esac
$rm_try
;;
*) val="$d_setlocale"
  set d_setlocale
  eval $setvar
  case "$d_setlocale" in
     $undef) echo "There may be other ways to set the locale on your system, so we need to ask:" >&4
     ;;
  esac
  rp="Does your system have the C.UTF-8 locale?"
  dflt=n
  . ./myread
  case "$ans" in
     [Yy]*) d_has_C_UTF8="true"
            c_utf8_locale=" or C.UTF-8"
            ;;
     *)     d_has_C_UTF8="false"
            c_utf8_locale=""
            ;;
  esac
  case "$d_setlocale" in
     $define)
        rp="When you set your locale to something besides C$c_utf8_locale, does it do so, or just pretend to?" >&4
        dflt=n
        . ./myread
        case "$ans" in
           true|[Yy]*)
   d_setlocale_accepts_any_locale_name="$undef"
   ;;
 *) d_setlocale_accepts_any_locale_name="$define"

  ;;
        esac
        ;;
     *) d_setlocale_accepts_any_locale_name="$undef"
   ;;
```

```
  esac
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_setlocale.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?X:
?X: Useless unit dropped.  Use randfunc instead.
?X:
?LINT:empty
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/randbits.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getgrent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getgrent_r getgrent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_grp extern_C
?MAKE: -pick add $@ %<
?S:d_getgrent_r:
?S: This variable conditionally defines the HAS_GETGRENT_R symbol,
?S: which indicates to the C program that the getgrent_r()
?S: routine is available.
?S:.
?S:getgrent_r_proto:
?S: This variable encodes the prototype of getgrent_r.
?S: It is zero if d_getgrent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getgrent_r
?S: is defined.
```

```
?S:.
?C:HAS_GETGRENT_R:
?C: This symbol, if defined, indicates that the getgrent_r routine
?C: is available to
 getgrent re-entrantly.
?C:.
?C:GETGRENT_R_PROTO:
?C: This symbol encodes the prototype of getgrent_r.
?C: It is zero if d_getgrent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getgrent_r
?C: is defined.
?C:.
?H:#$d_getgrent_r HAS_GETGRENT_R /**/
?H:#define GETGRENT_R_PROTO $getgrent_r_proto /**/
?H:.
?T:try hdrs d_getgrent_r_proto
: see if getgrent_r exists
set getgrent_r d_getgrent_r
eval $inlibc
case "$d_getgrent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_grp grp.h"
 case "$d_getgrent_r_proto:$usethreads" in
 ":define") d_getgrent_r_proto=define
  set d_getgrent_r_proto getgrent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getgrent_r_proto" in
 define)
 case "$getgrent_r_proto" in
 "|0) try='int getgrent_r(struct group*, char*, size_t, struct group**);'
 ./protochk "$extern_C $try" $hdrs && getgrent_r_proto=I_SBWR ;;
 esac
 case "$getgrent_r_proto" in
 "|0) try='int getgrent_r(struct group*, char*, int, struct group**);'
 ./protochk
 "$extern_C $try" $hdrs && getgrent_r_proto=I_SBIR ;;
 esac
 case "$getgrent_r_proto" in
 "|0) try='struct group* getgrent_r(struct group*, char*, size_t);'
 ./protochk "$extern_C $try" $hdrs && getgrent_r_proto=S_SBW ;;
 esac
 case "$getgrent_r_proto" in
 "|0) try='struct group* getgrent_r(struct group*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getgrent_r_proto=S_SBI ;;
 esac
 case "$getgrent_r_proto" in
```

```
"|0) try='int getgrent_r(struct group*, char*, int);'
./protochk "$extern_C $try" $hdrs && getgrent_r_proto=I_SBI ;;
esac
case "$getgrent_r_proto" in
"|0) try='int getgrent_r(struct group*, char*, int, FILE**);'
./protochk "$extern_C $try" $hdrs && getgrent_r_proto=I_SBIH ;;
esac
case "$getgrent_r_proto" in
"|0) d_getgrent_r=undef
 getgrent_r_proto=0
 echo "Disabling getgrent_r, cannot determine prototype." >&4 ;;
* ) case "$getgrent_r_proto" in
 REENTRANT_PROTO*) ;;
 *) getgrent_r_proto="REENTRANT_PROTO_$getgrent_r_proto" ;;
 esac
 echo "Prototype:
$try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "getgrent_r has no prototype, not using it." >&4 ;;
 esac
 d_getgrent_r=undef
 getgrent_r_proto=0
 ;;
esac
;;
*) getgrent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getgrent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_memmove.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memmove.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:35  ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_memmove: Inlibc
?MAKE: -pick add $@ %<
?S:d_memmove:
?S: This variable conditionally defines the HAS_MEMMOVE symbol, which
?S: indicates to the C program that the memmove() routine is available
?S: to copy potentially overlapping blocks of memory.
?S:.
?C:HAS_MEMMOVE:
?C: This symbol, if defined, indicates that the memmove routine
 is available
?C: to copy potentially overlapping blocks of memory. This should be used
?C: only when HAS_SAFE_BCOPY is not defined. If neither is there, roll your
?C: own version.
?C:.
?H:#$d_memmove HAS_MEMMOVE /**/
?H:.
?LINT:set d_memmove
: see if memmove exists
set memmove d_memmove
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_memmove.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_syssock.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_syssock.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:36  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_syssock: Inhdr
?MAKE: -pick add $@ %<
?S:i_syssock:
?S: This variable conditionally defines the I_SYS_SOCKET symbol, and indicates
?S: whether a C program should include <sys/socket.h> before performing socket
?S: operations.
```

```
?S:.
?C:I_SYS_SOCKET:
?C: This symbol, if defined, indicates to the C program that it should
?C: include
 <sys/socket.h> before performing socket calls.
?C:.
?H:#$i_syssock I_SYS_SOCKET  /**/
?H:.
?LINT:set i_syssock
: see if this is a sys/socket.h system
set sys/socket.h i_syssock
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_syssock.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: rcs_branch.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: rcs_branch.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:40  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:rcs_branch: Myread contains Loc
?MAKE: -pick add $@ %<
?S:rcs_branch:
?S: This variable will hold "true" if rcs can take the -b<revision>
?S: option, which can make Life Easier on those folks who like to run
?S: rcsdiff manually.
?S:.
?T:xxx
: Tra la la la la
echo " "
echo "Checking to see if RCS understands the -b switch..." >&4
xxx=`./loc
 rcs " $pth`
case "$xxx" in
")
 rcs_branch=false
```

```
 echo "Oh.  You don't seem to have RCS here."
 ;;
*)
 rcs > rcsbranch.out 2>&1
 if $contains 'b\[rev\]' rcsbranch.out  >/dev/null 2>&1 ; then
  rcs_branch=true
  echo "Nice!  Your RCS is spiffy!"
 else
  rcs_branch=false
 echo "Well, at least you have RCS.  You know, a newer version is available."
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/rcs_branch.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorhtml1dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorhtml1dir.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorhtml1dir vendorhtml1direxp installvendorhtml1dir: html1dir Getfile \
 Setprefixvar Oldconfig Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorhtml1dir:
?S: This variable contains the name of the directory for html
?S: pages.  It may have a ~ on the front.
?S: The standard distribution will put nothing in this
 directory.
?S: Vendors who distribute perl may wish to place their own
?S: html pages in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorhtml1direxp:
```

```
?S: This variable is the ~name expanded version of vendorhtml1dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorhtml1dir="
?S:installvendorhtml1dir:
?S: This variable is really the same as vendorhtml1direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorhtml1dir
: Set the vendorhtml1dir variables
case "$vendorprefix" in
") vendorhtml1dir="
 vendorhtml1direxp="
 ;;
*) : determine where vendor-supplied html pages go.
 : There is no standard location, so try to copy the previously-selected
 : directory structure for the core html pages.
 : XXX Better default suggestions would be welcome.
 case "$vendorhtml1dir"
 in
 ") dflt=`echo "$html1dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
 *) dflt=$vendorhtml1dir ;;
 esac
 case "$dflt" in
 "|' ') dflt=none ;;
 esac
 fn=dn+~
 rp='Pathname for the vendor-supplied html pages?'
 . ./getfile
 vendorhtml1dir="$ans"
 vendorhtml1direxp="$ansexp"
 ;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorhtml1dir" = "X" && vendorhtml1dir=' '
prefixvar=vendorhtml1dir
. ./installprefix
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/vendorhtml1dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998, Jarkko Hietaniemi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_sysaccess: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysaccess:
?S: This variable conditionally defines the I_SYS_ACCESS symbol,
?S: and indicates whether a C program should include <sys/access.h>.
?S:.
?C:I_SYS_ACCESS:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/access.h>.
?C:.
?H:#$i_sysaccess   I_SYS_ACCESS              /**/
?H:.
?LINT:set i_sysaccess
: see if sys/access.h is available
set sys/access.h i_sysaccess
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/acl/i_sysaccess.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_longlong.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_longlong.U,v $
?RCS:
?MAKE:d_longlong longlongsize: Compile Setvar Myread run \
 cat rm_try test longsize
?MAKE: -pick add $@ %<
?S:d_longlong:
?S: This variable conditionally defines HAS_LONG_LONG if
?S: the long long type is supported.
?S:.
?S:longlongsize:
?S: This variable contains the value of the LONGLONGSIZE symbol, which
?S: indicates to the C program how many bytes there are in a long long,
```

```
?S: if this system supports long long.
?S:.
?C:HAS_LONG_LONG:
?C: This symbol will be defined if the C compiler supports long long.
?C:.
?C:LONGLONGSIZE:
?C: This symbol contains the size of a long long, so that the
?C: C preprocessor can make decisions based on it.  It is only
?C: defined
 if the system supports long long.
?C:.
?H:#$d_longlong HAS_LONG_LONG  /**/
?H:?LONGLONGSIZE:#ifdef HAS_LONG_LONG
?H:?LONGLONGSIZE:#define LONGLONGSIZE $longlongsize  /**/
?H:?LONGLONGSIZE:#endif
?H:.
?F:!try
?LINT:set d_longlong
: check for long long
echo " "
echo "Checking to see if you have long long..." >&4
echo 'int main() { long long x = 7; return 0; }' > try.c
set try
if eval $compile; then
 val="$define"
 echo "You have long long."
else
 val="$undef"
 echo "You do not have long long."
fi
$rm_try
set d_longlong
eval $setvar

@if LONGLONGSIZE || longlongsize
: check for length of long long
?X:  Check only if d_longlong and if longlongsize is not already set.
case "${d_longlong}${longlongsize}" in
$define)
 echo " "
 echo "Checking to see how big your long longs are..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
   printf("%d\n", (int)sizeof(long long));
   return(0);
}
```

```
EOCP
 set try
 if eval $compile_ok; then
  longlongsize=`$run ./try`
  echo "Your long
 longs are $longlongsize bytes long."
 else
  dflt='8'
  echo " "
  echo "(I can't seem to compile the test program.  Guessing...)"
  rp="What is the size of a long long (in bytes)?"
  . ./myread
  longlongsize="$ans"
 fi
 if $test "X$longsize" = "X$longlongsize"; then
  echo "(That isn't any different from an ordinary long.)"
 fi
 ;;
esac
$rm_try
@end
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_longlong.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: perlpath.U,v 3.0.1.2 1995/09/25 09:17:04 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: perlpath.U,v $
?RCS:
?RCS: Special perl5 unit -- we haven't installed perl yet.
?RCS:
?RCS: Revision 3.0.1.2  1995/09/25  09:17:04  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:33:53  ram
?RCS: patch45: can now use Loc variables since path stripping is deferred
?RCS:
```

```
?RCS: Revision 3.0  1993/08/18  12:09:32  ram
?RCS: Baseline for dist
 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this unit is to locate perl good enough to construct a #!
?X:
?MAKE:perlpath: cat Getfile Loc Myread Oldconfig initialinstalllocation \
 startperl version versionony
?MAKE: -pick add $@ %<
?Y:TOP
?S:perlpath:
?S: This variable contains the eventual value of the PERLPATH symbol,
?S: which contains the name of the perl interpreter to be used in
?S: shell scripts and in the "eval 'exec'" idiom.  This variable is
?S: not necessarily the pathname of the file containing the perl
?S: interpreter; you must append the executable extension (_exe) if
?S: it is not already present.  Note that Perl code that runs during
?S: the Perl build process cannot reference this variable, as Perl
?S: may not have been installed, or even if installed, may be a
?S: different version of Perl.
?S:.
?C:PERLPATH:
?C: This symbol contains the name of the perl interpreter to be
?C: used in shell scripts and in the "eval 'exec'" idiom.
?C:.
?H:#define PERLPATH "$perlpath"  /**/
?H:.
:
 figure best path for perl in scripts
case "$perlpath" in
")
 case "$versionony" in
 "$define") perlpath="$initialinstalllocation/perl$version";;
 *)  perlpath="$initialinstalllocation/perl";;
 esac
 case "$startperl" in
 *!*) ;;
 *)
  $cat <<EOH

I will use the "eval 'exec'" idiom to start Perl on your system.
I can use the full path of your Perl binary for this purpose, but
doing so may cause problems if you want to share those scripts and
Perl is not always in a standard place ($initialinstalllocation/perl).

EOH
  dflt="$initialinstalllocation/perl"
```

```
  rp="What path shall I use in \"eval 'exec'\"?"
  . ./myread
  perlpath="$ans"
  ;;
 esac
 ;;
esac
case "$startperl" in
*!*) ;;
*) echo "I'll use $perlpath in \"eval 'exec'\"" ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/perlpath.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: yacc.U,v $
?RCS: Revision 3.0.1.1  1994/05/13  15:28:48  ram
?RCS: patch27: added byacc as another alternative (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:10:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:yacc yaccflags: Guess Myread Loc Oldconfig byacc bison cat test
?MAKE: -pick add $@ %<
?S:yacc:
?S: This variable holds the name of the compiler compiler we
?S: want to use in the Makefile. It can be yacc, byacc, or bison -y.
?S:.
?S:yaccflags:
?S: This variable contains any
 additional yacc flags desired by the
?S: user.  It is up to the Makefile to use this.
?S:.
?T:comp
: determine compiler compiler
echo " "
```

```
comp='yacc'
if $test -f "$byacc$_exe"; then
 comp="byacc or $comp"
fi
if $test -f "$bison$_exe"; then
 comp="$comp or bison -y"
fi
case "$yacc" in
")
 yacc=`./loc yacc yacc $pth`
 if $test -f "$yacc$_exe"; then
  dflt='yacc'
 elif $test -f "$byacc$_exe"; then
  dflt='byacc'
 elif $test -f "$bison$_exe"; then
  dflt='bison'
 else
  dflt=''
 fi
 ;;
*) dflt="$yacc";;
esac
rp="Which compiler compiler ($comp) shall I use?"
. ./myread
yacc="$ans"
case "$yacc" in
*bis*)
 case "$yacc" in
 *-y*) ;;
 *)
  yacc="$yacc -y"
  echo "(Adding -y option to bison to get yacc-compatible behaviour.)"
  ;;
 esac
 ;;
esac

@if yaccflags
: see if we need extra yacc flags
dflt="$yaccflags"
case "$dflt" in
") dflt=none;;
esac
$cat <<EOH

Your yacc program may need extra flags to normally process the parser sources.
Do NOT specify any -d or -v flags here, since those are
```

```
 explicitly known
by the various Makefiles. However, if your machine has strange/undocumented
options (like -Sr# on SCO to specify the maximum number of grammar rules), then
please add them here.  To use no flags, specify the word "none".

EOH
rp="Any additional yacc flags?"
. ./myread
case "$ans" in
none) yaccflags="";;
*) yaccflags="$ans";;
esac

@end
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/yacc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethostbyaddr_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_gethostbyaddr_r gethostbyaddr_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_gethostbyaddr_r:
?S: This variable conditionally defines the HAS_GETHOSTBYADDR_R symbol,
?S: which indicates to the C program that the gethostbyaddr_r()
?S: routine is available.
?S:.
?S:gethostbyaddr_r_proto:
?S: This variable encodes the prototype of gethostbyaddr_r.
?S: It is zero if d_gethostbyaddr_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gethostbyaddr_r
?S: is defined.
?S:.
?C:HAS_GETHOSTBYADDR_R:
?C: This symbol, if defined, indicates
 that the gethostbyaddr_r routine
?C: is available to gethostbyaddr re-entrantly.
?C:.
?C:GETHOSTBYADDR_R_PROTO:
```

```
?C: This symbol encodes the prototype of gethostbyaddr_r.
?C: It is zero if d_gethostbyaddr_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gethostbyaddr_r
?C: is defined.
?C:.
?H:#$d_gethostbyaddr_r HAS_GETHOSTBYADDR_R /**/
?H:#define GETHOSTBYADDR_R_PROTO $gethostbyaddr_r_proto /**/
?H:.
?T:try hdrs d_gethostbyaddr_r_proto
: see if gethostbyaddr_r exists
set gethostbyaddr_r d_gethostbyaddr_r
eval $inlibc
case "$d_gethostbyaddr_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_gethostbyaddr_r_proto:$usethreads" in
 ":define") d_gethostbyaddr_r_proto=define
  set d_gethostbyaddr_r_proto gethostbyaddr_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_gethostbyaddr_r_proto" in
 define)
 case "$gethostbyaddr_r_proto" in
 "|0) try='int gethostbyaddr_r(const char*, size_t, int, struct hostent*, char*,
 size_t, struct hostent**, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=I_CWISBWRE ;;
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) try='struct hostent* gethostbyaddr_r(const char*, size_t, int, struct hostent*, char*, size_t, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_CWISBWIE ;;
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) try='struct hostent* gethostbyaddr_r(const char*, size_t, int, struct hostent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_CWISBIE ;;
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) try='struct hostent* gethostbyaddr_r(const void*, size_t, int, struct hostent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_TWISBIE ;;
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) try='struct hostent* gethostbyaddr_r(const char*, int, int, struct hostent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_CIISBIE ;;
 esac
 case
 "$gethostbyaddr_r_proto" in
 "|0) try='struct hostent* gethostbyaddr_r(const char*, struct hostent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_CSBIE ;;
```

```
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) try='struct hostent* gethostbyaddr_r(const void*, struct hostent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_TSBIE ;;
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) try='int gethostbyaddr_r(const char*, size_t, int, struct hostent*, struct hostent_data*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=I_CWISD ;;
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) try='int gethostbyaddr_r(const char*, int, int, struct hostent*, struct hostent_data*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=I_CIISD ;;
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) try='int gethostbyaddr_r(const char*, int, int);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=I_CII ;;
 esac
 case
 "$gethostbyaddr_r_proto" in
 "|0) try='int gethostbyaddr_r(const void*, socklen_t, int, struct hostent*, char*, size_t, struct hostent**, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=I_TsISBWRE ;;
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) d_gethostbyaddr_r=undef
  gethostbyaddr_r_proto=0
  echo "Disabling gethostbyaddr_r, cannot determine prototype." >&4 ;;
 * ) case "$gethostbyaddr_r_proto" in
  REENTRANT_PROTO*) ;;
  *) gethostbyaddr_r_proto="REENTRANT_PROTO_$gethostbyaddr_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "gethostbyaddr_r has no prototype, not using it." >&4 ;;
  esac
  d_gethostbyaddr_r=undef
  gethostbyaddr_r_proto=0
  ;;
 esac
 ;;
*) gethostbyaddr_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_gethostbyaddr_r.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: lns.U,v 3.0.1.1 1994/06/20 07:05:52 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: lns.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  07:05:52  ram
?RCS: patch30: created by ADO
?RCS:
?X:
?X: This unit checks whether symbolic links are really supported.
?X: We can't rely on d_symlink because that may be listed in the
?X: C library but unimplemented.
?X:
?MAKE:lns: ln rm touch
?MAKE: -pick add $@ %<
?S:lns:
?S: This variable holds the name of the command to make
?S: symbolic
 links (if they are supported).  It can be used
?S: in the Makefile. It is either 'ln -s' or 'ln'
?S:.
: determine whether symbolic links are supported
echo " "
$touch blurfl
if $ln -s blurfl sym > /dev/null 2>&1 ; then
 echo "Symbolic links are supported." >&4
 lns="$ln -s"
else
 echo "Symbolic links are NOT supported." >&4
 lns="$ln"
fi
$rm -f blurfl sym
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/lns.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: mailer.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: mailer.U,v $
?RCS: Revision 3.0.1.3  1995/01/11  15:32:11  ram
?RCS: patch45: can now use Loc variables since path stripping is deferred
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:10:04  ram
?RCS: patch23: ensure full path value is used for rmail also
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:14:18  ram
?RCS: patch16: now use _sendmail vars and friends for portability issues
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:10  ram
?RCS: Baseline for dist
 3.0 netwide release.
?RCS:
?MAKE:mailer: test cat rmail mail smail sendmail Getfile Oldconfig
?MAKE: -pick add $@ %<
?S:mailer:
?S: This variable contains the full pathname of a reasonable mailer.
?S: By reasonable, we mean some program which can understand internet
?S: addresses or at least forward them to some internet router. This
?S: mailer should be invoked as "mailer [options] recipients <mail".
?S:.
: determine the name of a reasonable mailer
case "$mailer" in
")
 if $test -f "$sendmail"; then
  dflt="$sendmail"
 elif $test -f "$smail"; then
  dflt="$smail"
 elif $test -f "$rmail"; then
  dflt="$rmail"
 elif $test -f /bin/mail; then
  dflt=/bin/mail
 else
  dflt=$mail
 fi
 ;;
*)  dflt="$mailer";;
```

```
esac
$cat <<EOM

I need the full pathname of the program used to deliver mail on your system.
A typical answer would be /usr/lib/sendmail or /bin/rmail, but you may choose
any other program, as long as it can be fed from standard input and will
honour any user-supplied headers.

EOM
fn=f
rp='Mail
 transport agent to be used?'
. ./getfile
mailer="$ans"
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/mailer.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getservprotos.U,v $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_getservprotos : Hasproto i_netdb
?MAKE: -pick add $@ %<
?S:d_getservprotos:
?S: This variable conditionally defines the HAS_GETSERV_PROTOS symbol,
?S: which indicates to the C program that <netdb.h> supplies
?S: prototypes for the various getserv*() functions.
?S: See also netdbtype.U for probing for various netdb types.
?S:.
?C:HAS_GETSERV_PROTOS:
?C: This symbol, if defined, indicates that <netdb.h> includes
?C: prototypes for getservent(), getservbyname(), and
?C: getservbyaddr().  Otherwise,
 it is up to the program to guess
?C: them.  See netdbtype.U for probing for various Netdb_xxx_t types.
?C:.
?H:#$d_getservprotos HAS_GETSERV_PROTOS /**/
?H:.
?LINT:set d_getservprotos
```

```
: see if prototypes for various getservxxx netdb.h functions are available
echo " "
set d_getservprotos getservent $i_netdb netdb.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/d_getservprotos.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_acosh: Inlibc
?MAKE: -pick add $@ %<
?S:d_acosh:
?S: This variable conditionally defines the HAS_ACOSH symbol, which
?S: indicates to the C program that the acosh() routine is available.
?S:.
?C:HAS_ACOSH:
?C: This symbol, if defined, indicates that the acosh routine is
?C: available to do the inverse hyperbolic cosine function.
?C:.
?H:#$d_acosh HAS_ACOSH  /**/
?H:.
?LINT:set d_acosh
: see if acosh exists
set acosh d_acosh
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_acosh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?X:
```

```
?X: This unit produces a bit of shell code that must be dotted in order
?X: to make quick check on whether the current C compiler is working.
?X:
?MAKE:Checkcc ccname ccversion: Myread Warn startsh cat contains test
?MAKE: -pick add $@ %<
?S:ccname:
?S: This can set either by hints files or by Configure.  If using
?S: gcc, this is gcc, and if not, usually equal to cc, unimpressive, no?
?S: Some platforms, however, make good use of this by storing the
?S: flavor
 of the C compiler being used here.  For example if using
?S: the Sun WorkShop suite, ccname will be 'workshop'.
?S:.
?S:ccversion:
?S: This can set either by hints files or by Configure.  If using
?S: a (non-gcc) vendor cc, this variable may contain a version for
?S: the compiler.
?S:.
?F:./checkcc ./trygcc !checktmp
?V:despair
?T:trygcc
?LINT:extern cc rm ccflags ldflags
?LINT:change cc ccflags
?LINT:usefile checktmp
?INIT:ccname=''
?INIT:ccversion=''
: generate the trygcc script for later perusal
cat <<EOS >trygcc
$startsh
EOS
cat <<'EOSC' >>trygcc
case "$cc" in
'') ;;
*)  $rm -f try try.*
   $cat >try.c <<EOM
int main(int argc, char *argv[]) {
 (void) argc;
 (void) argv;
 return 0;
}
EOM
   if $cc -o try $ccflags $ldflags try.c; then
      :
   else
       echo "Uh-oh, the C compiler '$cc' doesn't seem to be working." >&4
       despair=yes
       trygcc=yes
       case "$cc" in
```

```
      *gcc*) trygcc=no ;;
      esac
      case "`$cc -v -c try.c 2>&1`" in

     *gcc*) trygcc=no ;;
      esac
      if $test X"$trygcc" = Xyes; then
         if gcc -o try -c try.c; then
            echo " "
            echo "You seem to have a working gcc, though." >&4
            rp="Would you like to use it?"
            dflt=y
            if $test -f myread; then
               . ./myread
            else
               if $test -f UU/myread; then
                  . ./UU/myread
               else
                  echo "Cannot find myread, sorry.  Aborting." >&2
                  exit 1
               fi
            fi
            case "$ans" in
            [yY]*) cc=gcc; ccname=gcc; ccflags=''; despair=no;
?X: Look whether we have 'call-back units' generated by hints that would
?X: seemingly affect the compiling environment.
                  $cat *.cbu >checktmp 2>/dev/null
                  if $contains ccflags checktmp >/dev/null; then

      ./warn <<EOM
Any previous setting of the C compiler flags has been lost.
It may be necessary to pass -Dcc=gcc to Configure right away.
EOM
                  fi;;
            esac
         fi
      fi
   fi
   $rm -f try try.*
   ;;
esac
EOSC

: generate the checkcc script for later perusal
cat <<EOS >checkcc
$startsh
EOS
cat <<'EOSC' >>checkcc
```

```
case "$cc" in
") ;;
*)  $rm -f try try.*
   $cat >try.c <<EOM
int main(int argc, char *argv[]) {
 (void) argc;
 (void) argv;
 return 0;
}
EOM
   if $cc -o try $ccflags $ldflags try.c; then
      :
   else
      if $test X"$despair" = Xyes; then
         echo "Uh-oh, the C compiler '$cc' doesn't seem to be working." >&4
      fi
      $cat >&4 <<EOM
You need to find a working C compiler.
Either (purchase and) install the C compiler supplied by your OS vendor,
or for a free C compiler try http://gcc.gnu.org/
I cannot continue any further, aborting.
EOM
      exit 1
   fi

 $rm -f try try.*
   ;;
esac
EOSC
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Checkcc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_symlink.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_symlink.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:41  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?MAKE:d_symlink: Inlibc
?MAKE: -pick add $@ %<
?S:d_symlink:
?S: This variable conditionally defines the HAS_SYMLINK symbol, which
?S: indicates to the C program that the symlink() routine is available
?S: to create symbolic links.
?S:.
?C:HAS_SYMLINK (SYMLINK):
?C: This symbol, if defined, indicates that the symlink routine is available
?C: to
 create symbolic links.
?C:.
?H:#$d_symlink HAS_SYMLINK /**/
?H:.
?LINT:set d_symlink
: see if symlink exists
set symlink d_symlink
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_symlink.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sfio.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sfio.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:48:27  ram
?RCS: patch61: created
?RCS:
?MAKE:i_sfio: Inhdr Setvar
?MAKE: -pick add $@ %<
?S:i_sfio:
?S: This variable conditionally defines the I_SFIO symbol,
?S: and indicates whether a C program should include <sfio.h>.
?S:.
?C:I_SFIO:
?C: This symbol, if defined, indicates to the C program that it should
```

```
?C: include <sfio.h>.
?C:.
?H:#$i_sfio I_SFIO  /**/
?H:.
?LINT:set
 i_sfio
: see if sfio.h is available
set sfio.h i_sfio
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sfio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2004 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strlcat: Inlibc Hasproto d_gnulibc
?MAKE: -pick add $@ %<
?S:d_strlcat:
?S: This variable conditionally defines the HAS_STRLCAT symbol, which
?S: indicates to the C program that the strlcat () routine is available.
?S:.
?C:HAS_STRLCAT:
?C: This symbol, if defined, indicates that the strlcat () routine is
?C: available to do string concatenation.
?C:.
?H:#$d_strlcat HAS_STRLCAT  /**/
?H:.
?T:d_strlcat_proto xx1 xx2 xx3 xx4
?LINT:set d_strlcat
: see if strlcat exists
: We need both a prototype in string.h and the symbol in libc.
echo " "
d_strlcat_proto=''
xx1="#$d_gnulibc HAS_GNULIBC"
xx2='#if defined(HAS_GNULIBC) && !defined(_GNU_SOURCE)'
xx3='#   define _GNU_SOURCE'
xx4='#endif'
set d_strlcat_proto
 strlcat literal "$xx1" literal "$xx2" literal "$xx3" literal "$xx4" define string.h
eval $hasproto
case "$d_strlcat_proto" in
```

```
   define) # see if strlcat exists
 set strlcat d_strlcat
 eval $inlibc
 ;;
   *)  val=$undef
 set d_strlcat
 eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strlcat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fmod.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_fmod.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:12:46  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_fmod: Inlibc
?MAKE: -pick add $@ %<
?S:d_fmod:
?S: This variable conditionally defines the HAS_FMOD symbol, which
?S: indicates to the C program that the fmod() routine is available.
?S: See also d_drem for the drem() routine which does roughly the same.
?S:.
?C:HAS_FMOD
 :
?C: This symbol, if defined, indicates that the fmod routine is
?C: available to compute the remainder r=x-n*y where n=trunc(x/y).
?C:.
?H:#$d_fmod HAS_FMOD  /**/
?H:.
?LINT:set d_fmod
: see if fmod exists
set fmod d_fmod
```

```
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_fmod.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: intsize.U,v 3.0.1.2 1997/02/28 15:55:26 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: intsize.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:55:26  ram
?RCS: patch61: avoid prompting the user if the test runs ok
?RCS: patch61: moved code from longsize.U into there
?RCS: patch61: new tests for shortsize as well
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:21:06  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:intsize longsize
 shortsize: Compile Myread cat run i_stdlib rm_try
?MAKE: -pick add $@ %<
?S:intsize:
?S: This variable contains the value of the INTSIZE symbol, which
?S: indicates to the C program how many bytes there are in an int.
?S:.
?S:longsize:
?S: This variable contains the value of the LONGSIZE symbol, which
?S: indicates to the C program how many bytes there are in a long.
?S:.
?S:shortsize:
?S: This variable contains the value of the SHORTSIZE symbol which
?S: indicates to the C program how many bytes there are in a short.
?S:.
?C:INTSIZE:
?C: This symbol contains the value of sizeof(int) so that the C
?C: preprocessor can make decisions based on it.
?C:.
```

```
?C:LONGSIZE:
?C: This symbol contains the value of sizeof(long) so that the C
?C: preprocessor can make decisions based on it.
?C:.
?C:SHORTSIZE:
?C: This symbol contains the value of sizeof(short) so that the C
?C: preprocessor can make decisions based on it.
?C:.
?H:#define INTSIZE $intsize  /**/
?H:#define LONGSIZE $longsize  /**/
?H:#define
 SHORTSIZE $shortsize  /**/
?H:.
?F:!try
: check for lengths of integral types
echo " "
case "$intsize" in
")
 echo "Checking to see how big your integers are..." >&4
 $cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
{
@if INTSIZE || intsize
 printf("intsize=%d;\n", (int)sizeof(int));
@end
@if LONGSIZE || longsize
 printf("longsize=%d;\n", (int)sizeof(long));
@end
@if SHORTSIZE || shortsize
 printf("shortsize=%d;\n", (int)sizeof(short));
@end
 exit(0);
}
EOCP
 set try
 if eval $compile_ok && $run ./try > /dev/null; then
  eval `$run ./try`
@if INTSIZE || intsize
  echo "Your integers are $intsize bytes long."
@end
@if LONGSIZE || longsize
  echo "Your long integers are $longsize bytes long."
@end
```

```
@if SHORTSIZE || shortsize
  echo "Your short integers are $shortsize bytes long."
@end
 else
  $cat >&4 <<EOM
!
Help! I can't compile and run the intsize test program: please enlighten me!
(This is probably a misconfiguration
 in your system or libraries, and
you really ought to fix it.  Still, I'll try anyway.)
!
EOM
@if INTSIZE || intsize
  dflt=4
  rp="What is the size of an integer (in bytes)?"
  . ./myread
  intsize="$ans"
@end
@if LONGSIZE || longsize
  dflt=$intsize
  rp="What is the size of a long integer (in bytes)?"
  . ./myread
  longsize="$ans"
@end
@if SHORTSIZE || shortsize
  dflt=2
  rp="What is the size of a short integer (in bytes)?"
  . ./myread
  shortsize="$ans"
@end
 fi
 ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/a_dvisory/intsize.U
No license file was found, but licenses were detected in source scan.

* Feel free to modify any of this as the need arises. Note, however,

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/metaconfig.html
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_group.U 1 2006-08-24 12:32:52Z rmanfredi $

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_group.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:34:52  ram
?RCS: patch61: useless unit dropped.
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:48  ram
?RCS: patch32: created by ADO
?RCS:
?X:
?X: Useless unit dropped.
?X:
?LINT:empty
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_group.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysparam.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysparam.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:22:43  ram
?RCS: patch32: created
?RCS:
?MAKE:i_sysparam: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysparam:
?S: This variable conditionally defines the I_SYS_PARAM symbol, and indicates
?S: whether a C program should include <sys/param.h>.
?S:.
```

```
?C:I_SYS_PARAM:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/param.h>.
?C:.
?H:#$i_sysparam I_SYS_PARAM  /**/
?H:.
?LINT:set
 i_sysparam
: see if this is a sys/param system
set sys/param.h i_sysparam
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sysparam.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:gidformat: gidsize gidsign ivsize uvsize longsize intsize shortsize \
 ivdformat uvuformat test echo
?MAKE: -pick add $@ %<
?S:gidformat:
?S: This variable contains the format string used for printing a Gid_t.
?S:.
?C:Gid_t_f:
?C: This symbol defines the format string used for printing a Gid_t.
?C:.
?H:#define Gid_t_f  $gidformat  /**/
?H:.
: Check format string for GID

echo " "
$echo "Checking the format string to be used for gids..." >&4

case "$gidsign" in
-1) if $test X"$gidsize" = X"$ivsize"; then
  gidformat="$ivdformat"
 else
  if $test X"$gidsize" = X"$longsize"; then
   gidformat="'ld'"
  else
   if $test X"$gidsize" = X"$intsize"; then
```

```
    gidformat="'d'"
   else
    if $test X"$gidsize"
 = X"$shortsize"; then
     gidformat="'hd'"
    fi
   fi
  fi
 fi
 ;;
*) if $test X"$gidsize" = X"$uvsize"; then
  gidformat="$uvuformat"
 else
  if $test X"$gidsize" = X"$longsize"; then
   gidformat="'lu'"
  else
   if $test X"$gidsize" = X"$intsize"; then
    gidformat="'u'"
   else
    if $test X"$gidsize" = X"$shortsize"; then
     gidformat="'hu'"
    fi
   fi
  fi
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/gidf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_psignal.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_psignal.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:49  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_psignal: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_psignal:
?S: This variable conditionally defines the HAS_PSIGNAL symbol, which
?S: indicates that the psignal() routine exists.  The psignal() routine
?S: prints a description of a signal on the standard error output.
?S:.
?C:HAS_PSIGNAL (PSIGNAL):
?C: This symbol, if defined, indicates
 that the psignal() routine exists.
?C:.
?H:#$d_psignal HAS_PSIGNAL  /**/
?H:.
?LINT:set d_psignal
: see if psignal exists
set psignal d_psignal
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_psignal.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: randbits.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:19:29  ram
?RCS: patch61: added <unistd.h> and <stdlib.h> to the C program test
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:38  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit has been somewhat made obsolete with creation of the
?X: randfunc function (which finds out how to generate random
?X: numbers between 0 and 1.
?X:
?MAKE:randbits: cat rm Myread cc i_unistd i_stdlib
?MAKE: -pick add $@ %<
?S:randbits:
?S: This
```

```
 variable contains the eventual value of the RANDBITS symbol,
?S: which indicates to the C program how many bits of random number
?S: the rand() function produces.
?S:.
?C:RANDBITS:
?C: This symbol contains the number of bits of random number the rand()
?C: function produces.  Usual values are 15, 16, and 31.
?C:.
?H:#define RANDBITS $randbits  /**/
?H:.
: check for size of random number generator
echo " "
case "$randbits" in
")
 echo "Checking to see how many bits your rand function produces..." >&4
 $cat >try.c <<EOCP
#$i_unistd I_UNISTD
#$i_stdlib I_STDLIB
#include <stdio.h>
#ifdef I_UNISTD
#  include <unistd.h>
#endif
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
EOCP
 $cat >>try.c <<'EOCP'
int main()
{
 register int i;
 register unsigned long tmp;
 register unsigned long max = 0L;

 for (i = 1000; i; i--) {
  tmp = (unsigned long)rand();
  if (tmp > max) max = tmp;
 }
 for (i = 0; max; i++)
  max /= 2;
 printf("%d\n",i);
}
EOCP
 if $cc -o try try.c >/dev/null 2>&1 ; then
  dflt=`try`
 else
  dflt='?'
  echo
```

```
 "(I can't seem to compile the test program...)"
 fi
 ;;
*)
 dflt="$randbits"
 ;;
esac
rp='How many bits does your rand() function produce?'
. ./myread
randbits="$ans"
$rm -f try.c try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/randbits.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2012-2012, H.Merijn Brand
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: H.Merijn Brand
?RCS:
?MAKE:d_isblank: cc cat ccflags ldflags rm libs Setvar
?MAKE: -pick add $@ %<
?S:d_isblank:
?S: This variable conditionally defines the HAS_ISBLANK constant,
?S: which indicates to the C program that isblank() is available.
?S:.
?C:HAS_ISBLANK:
?C: This manifest constant lets the C program know that isblank
?C: is available.
?C:.
?H:#$d_isblank HAS_ISBLANK  /**/
?H:.
?LINT:set d_isblank
?X: Can't use Inlibc because isblank() might be a macro.
: Look for isblank
echo " "
$cat >isblank.c <<'EOCP'
#include
 <stdio.h>
#include <ctype.h>
int main() {
```

```
 int c = ' ';
 if (isblank(c))
  return 0 ;
 else
  return 1 ;
}
EOCP
if $cc $ccflags $ldflags -o isblank isblank.c $libs >/dev/null 2>&1 ; then
 echo "isblank() found." >&4
 val="$define"
else
 echo "isblank() NOT found." >&4
 val="$undef"
fi
set d_isblank
eval $setvar
$rm -f isblank*
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_isblank.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_systypes.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_systypes.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:41  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Look wether <sys/types.h> needs to be included.
?X:
?MAKE:i_systypes: Inhdr
?MAKE: -pick add $@ %<
?S:i_systypes:
?S: This variable conditionally defines the I_SYS_TYPES symbol,
?S: and indicates whether a C program should include <sys/types.h>.
?S:.
?C:I_SYS_TYPES (I_SYSTYPES):
?C: This symbol, if defined, indicates to the C program
```

```
 that it should
?C: include <sys/types.h>.
?C:.
?H:#$i_systypes I_SYS_TYPES  /**/
?H:.
?LINT:set i_systypes
: see if sys/types.h has to be included
set sys/types.h i_systypes
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_systypes.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2017 Karl Williamson
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_nl_langinfo_l d_thread_safe_nl_langinfo_l: Compile cat rm_try Oldconfig \
 i_pthread i_stdlib i_langinfo i_locale  \
 usethreads run
?MAKE: -pick add $@ %<
?S:d_nl_langinfo_l:
?S: This variable contains the eventual value of the
?S: HAS_NL_LANGINFO_L symbol, which indicates if the
?S: nl_langinfo_l() function exists.
?S:.
?S:d_thread_safe_nl_langinfo_l:
?S: This variable contains the eventual value of the
?S: HAS_THREAD_SAFE_NL_LANGINFO_L symbol, which indicates if the
?S: nl_langinfo_l() function exists and is thread-safe.
?S:.
?C:HAS_NL_LANGINFO_L:
?C: This symbol, when defined, indicates presence of the nl_langinfo_l()
?C: function
?C:.
?C:HAS_THREAD_SAFE_NL_LANGINFO_L:
?C: This symbol, when defined,
 indicates presence of the nl_langinfo_l()
?C: function, and that it is thread-safe.
?C:.
?H:#$d_nl_langinfo_l HAS_NL_LANGINFO_L /**/
?H:#$d_thread_safe_nl_langinfo_l HAS_THREAD_SAFE_NL_LANGINFO_L /**/
?H:.
```

```
?F:!try
: check for nl_langinfo_l item
$cat <<EOM

Checking to see if you have nl_langinfo_l(), and that it is thread-safe
EOM
?X: Despite claiming that nl_langinfo_l() is thread-safe, the POSIX 2008
?X: standard allows for a non-safe implementation:
?X:
?X:    "nl_langinfo_l() uses an internal per-thread buffer, and nl_langinfo()
?X: uses (in all threads) the same buffer that nl_langinfo_l() uses in the
?X: initial thread. There can be interactions, but only when
?X: nl_langinfo_l() is called in the initial thread"
?X:
?X: This program calls nl_langinfo_l(), then creates a thread, calling plain
?X: nl_langinfo() from within it, then sees if the buffer in the original
?X: thread was changed.
$cat >try.c <<EOCP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#include
 <string.h>
#$i_langinfo I_LANGINFO
#ifdef I_LANGINFO
#  include <langinfo.h>
#endif
#$i_pthread I_PTHREAD
#ifdef I_PTHREAD
#  include <pthread.h>
#endif
#$i_locale I_LOCALE
#ifdef I_LOCALE
#  include <locale.h>
#endif

void *
thread_start(void * arg)
{
   nl_langinfo(RADIXCHAR);
}

int main() {
   char * main_buffer;
   char save_main_buffer[1000];
   pthread_t subthread;
   pthread_attr_t attr;
```

```
  main_buffer = nl_langinfo_l(CODESET, newlocale(LC_ALL_MASK, "C", 0));

  /* If too large for our generous allowance, just assume we don't have
   * it. */
  if (strlen(main_buffer) >= sizeof(save_main_buffer)) {
      exit(1);
  }

  strcpy(save_main_buffer, main_buffer);

  if (pthread_attr_init(&attr) != 0) {
      exit(1);
  }

  if (pthread_create(&subthread, &attr, thread_start, NULL) != 0) {
      exit(1);
  }

  if (pthread_join(subthread, NULL) != 0) {
      exit(1);
  }

  exit(! (strcmp(main_buffer, save_main_buffer) == 0));
}
EOCP
case
 "$usethreads" in
  define)
      set try
      if eval $compile; then
          echo "Your system has nl_langinfo_l()..." >&4
          d_nl_langinfo_l="$define"
          echo "$d_nl_langinfo_l" >&4
          if $run ./try; then
              echo "and it is thread-safe (just as I'd hoped)." >&4
              d_thread_safe_nl_langinfo_l="$define"
              echo "$d_thread_safe_nl_langinfo_l" >&4
          else
              echo "but it isn't thread-safe." >&4
          fi
      else
          echo "your system does not have nl_langinfo_l()" >&4
      fi
      ;;
  *) echo "Since threads aren't selected, we won't bother looking for nl_langinfo_l()" >&4
esac
if test X"$d_nl_langinfo_l" = X; then
```

```
 d_nl_langinfo_l="$undef"
fi
if test X"$d_thread_safe_nl_langinfo_l" = X; then
 d_thread_safe_nl_langinfo_l="$undef"
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_nl_langinfo_l.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1997, Chip Salzenberg
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sh.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:20:13  ram
?RCS: patch61: created
?RCS:
?MAKE:sh: Head
?MAKE: -pick wipe $@ %<
?S:sh:
?S: This variable contains the full pathname of the shell used
?S: on this system to execute Bourne shell scripts.  Usually, this will be
?S: /bin/sh, though it's possible that some systems will have /bin/ksh,
?S: /bin/pdksh, /bin/ash, /bin/bash, or even something such as
?S: D:/bin/sh.exe.
?S: This unit comes before Options.U,
 so you can't set sh with a -D
?S: option, though you can override this (and startsh)
?S: with -O -Dsh=/bin/whatever -Dstartsh=whatever
?S:.
?C:SH_PATH:
?C: This symbol contains the full pathname to the shell used on this
?C: on this system to execute Bourne shell scripts.  Usually, this will be
?C: /bin/sh, though it's possible that some systems will have /bin/ksh,
?C: /bin/pdksh, /bin/ash, /bin/bash, or even something such as
?C: D:/bin/sh.exe.
?C:.
?H:#define SH_PATH "$sh"  /**/
```

```
?H:.
?T:xxx try pth p SYSTYPE
?LINT:extern maintloc maintname
?X:
?X: Be quiet unless something unusual happens because this gets
?X: loaded up even before options are processed.
?X: Can't use ./loc because that depends on startsh, which, in turn
?X: depends on this unit.
?X:
: Find the basic shell for Bourne shell scripts
case "$sh" in
")
?X: SYSTYPE is for some older MIPS systems.
?X: I do not know if it is still needed.
 case "$SYSTYPE" in
 *bsd*|sys5*) xxx="/$SYSTYPE/bin/sh";;
 *) xxx='/bin/sh';;
 esac
 if
 test -f "$xxx"; then
  sh="$xxx"
 else
  : Build up a list and do a single loop so we can 'break' out.
  pth=`echo $PATH | sed -e "s/$p_/ /g"`
  for xxx in sh bash ksh pdksh ash; do
   for p in $pth; do
    try="$try ${p}/${xxx}"
   done
  done
  for xxx in $try; do
   if test -f "$xxx"; then
    sh="$xxx"
    break
   elif test -f "$xxx$_exe"; then
    sh="$xxx"
    break
   elif test -f "$xxx.exe"; then
    sh="$xxx"
    break
   fi
  done
 fi
 ;;
esac

?X: fd 4 isn't open yet...
case "$sh" in
") cat >&2 <<EOM
```

```
$me:  Fatal Error:  I can't find a Bourne Shell anywhere.

Usually it's in /bin/sh.  How did you even get this far?
Please contact me (<$maintname>) at <$maintloc> and
we'll try to straighten this all out.
EOM
 exit 1
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/sh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: basicshell.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: basicshell.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:25  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:basicshell: Getfile Oldconfig bash csh ksh sh
?MAKE: -pick add $@ %<
?S:basicshell:
?S: This variable contains the eventual value of the BASICSHELL symbol,
?S: which contains the full name of the basic script shell on this
?S: system.  Usual values are /bin/sh, /bin/ksh, /bin/csh.
?S:.
?C:BASICSHELL:
?C: This symbol contains the
 full name of the basic script shell on this
?C: system.  Usual values are /bin/sh, /bin/ksh, /bin/csh.
?C:.
?H:#define BASICSHELL "$basicshell"  /**/
?H:.
: find the most basic shell for scripts
echo " "
case "$basicshell" in
")
 case "$sh $bash $csh $ksh" in
```

```
 */sh*) dflt="$sh" ;;
 */ksh*) dflt="$ksh" ;;
 */csh*) dflt="$csh" ;;
 */bash*) dflt="$bash" ;;
 *) dflt='/bin/sh' ;;
 esac
 ;;
*)
 dflt="$basicshell";;
esac
fn=f
rp="Give the full path name of the most basic shell used on your system"
. ./getfile
basicshell=$ans
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/basicshell.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:uselongdouble: Myread Oldconfig Setvar cat test usemorebits
?MAKE: -pick add $@ %<
?Y:TOP
?S:uselongdouble:
?S: This variable conditionally defines the USE_LONG_DOUBLE symbol,
?S: and indicates that long doubles should be used when available.
?S:.
?C:USE_LONG_DOUBLE:
?C: This symbol, if defined, indicates that long doubles should
?C: be used when available.
?C:.
?H:?%<:#ifndef USE_LONG_DOUBLE
?H:?%<:#$uselongdouble USE_LONG_DOUBLE  /**/
?H:?%<:#endif
?H:.
?LINT:extern ccflags
?LINT:use usemorebits
?F:!uselongdouble.cbu
: Check for uselongdouble support
case "$ccflags" in
*-DUSE_LONG_DOUBLE*|*-DUSE_MORE_BITS*) uselongdouble="$define" ;;
```

```
esac

case "$uselongdouble" in
$define|true|[yY]*) dflt='y';;
*)
 dflt='n';;
esac
cat <<EOM

Perl can be built to take advantage of long doubles which
(if available) may give more accuracy and range for floating point numbers.

If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp='Try to use long doubles if available?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*)      val="$undef" ;;
esac
set uselongdouble
eval $setvar

case "$uselongdouble" in
true|[yY]*) uselongdouble="$define" ;;
esac

: Look for a hint-file generated 'call-back-unit'.  If the
: user has specified that long doubles should be used,
: we may need to set or change some other defaults.
if $test -f uselongdouble.cbu; then
   echo "Your platform has some specific hints regarding long doubles, using them..."
   . ./uselongdouble.cbu
else
   case "$uselongdouble" in
 $define)
  $cat <<EOM
(Your platform does not have any specific hints for long doubles.)
EOM
 ;;
   esac
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/uselongdbl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_fd_set.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:33:16  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20  06:57:23  ram
?RCS: patch30: extended scope for fd_set checks (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:06:27  ram
?RCS: patch16: comments for HAS_FD_* symbols were not consistent
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_fd_set d_fd_macros d_fds_bits: cat +cc +ccflags rm Oldconfig
 \
 d_socket i_systime i_sysselct i_syssock
?MAKE: -pick add $@ %<
?S:d_fd_set:
?S: This variable contains the eventual value of the HAS_FD_SET symbol,
?S: which indicates if your C compiler knows about the fd_set typedef.
?S:.
?S:d_fd_macros:
?S: This variable contains the eventual value of the HAS_FD_MACROS symbol,
?S: which indicates if your C compiler knows about the macros which
?S: manipulate an fd_set.
?S:.
?S:d_fds_bits:
?S: This variable contains the eventual value of the HAS_FDS_BITS symbol,
?S: which indicates if your fd_set typedef contains the fds_bits member.
?S: If you have an fd_set typedef, but the dweebs who installed it did
?S: a half-fast job and neglected to provide the macros to manipulate
?S: an fd_set, HAS_FDS_BITS will let us know how to fix the gaffe.
?S:.
?C:HAS_FD_SET:
?C: This symbol, when defined, indicates presence of the fd_set typedef
?C: in <sys/types.h>
?C:.
?C:HAS_FD_MACROS:
```

```
?C: This symbol, when defined,  indicates presence of the macros used
 to
?C: manipulate an fd_set.
?C:.
?C:HAS_FDS_BITS:
?C: This symbol, when defined, indicates presence of the fds_bits member in
?C: fd_set.  This knowledge is useful if fd_set is available but the macros
?C: aren't.
?C:.
?H:#$d_fd_set HAS_FD_SET /**/
?H:#$d_fd_macros HAS_FD_MACROS /**/
?H:#$d_fds_bits HAS_FDS_BITS /**/
?H:.
?F:!fd_set
: check for fd_set items
$cat <<EOM

Checking to see how well your C compiler handles fd_set and friends ...
EOM
?X: The FD_SET macros can be in strange places.  On some SysV-based
?X: systems, they are in <sys/bsdtypes.h>, which is included (perhaps)
?X: by <sys/socket.h>.  We won't force people to include
?X: <sys/bsdtypes.h> because it might introduce other
?X: incompatibilities.
$cat >fd_set.c <<EOCP
#$i_systime I_SYS_TIME
#$i_sysselct I_SYS_SELECT
#$d_socket HAS_SOCKET
#$i_syssock I_SYS_SOCKET
#include <sys/types.h>
#ifdef HAS_SOCKET
#ifdef I_SYS_SOCKET
#include <sys/socket.h> /* Might include <sys/bsdtypes.h> */
#endif
#endif
#ifdef I_SYS_TIME
#include
 <sys/time.h>
#endif
#ifdef I_SYS_SELECT
#include <sys/select.h>
#endif
int main() {
 fd_set fds;

#ifdef TRYBITS
 if(fds.fds_bits);
#endif
```

```
#if defined(FD_SET) && defined(FD_CLR) && defined(FD_ISSET) && defined(FD_ZERO)
 exit(0);
#else
 exit(1);
#endif
}
EOCP
if $cc $ccflags -DTRYBITS -o fd_set fd_set.c >fd_set.out 2>&1 ; then
 d_fds_bits="$define"
 d_fd_set="$define"
 echo "Well, your system knows about the normal fd_set typedef..." >&4
 if ./fd_set; then
  echo "and you have the normal fd_set macros (just as I'd expect)." >&4
  d_fd_macros="$define"
 else
  $cat >&4 <<'EOM'
but not the normal fd_set macros!  Gaaack!  I'll have to cover for you.
EOM
  d_fd_macros="$undef"
 fi
else
 $cat <<'EOM'
Hmm, your compiler has some difficulty with fd_set.  Checking further...
EOM
 if $cc $ccflags -o fd_set fd_set.c >fd_set.out 2>&1 ; then
  d_fds_bits="$undef"
  d_fd_set="$define"
  echo "Well, your system has some sort of fd_set available..." >&4
  if ./fd_set; then
   echo "and you have the
 normal fd_set macros." >&4
   d_fd_macros="$define"
  else
   $cat <<'EOM'
but not the normal fd_set macros!  Gross!  More work for me...
EOM
   d_fd_macros="$undef"
  fi
 else
 echo "Well, you got zip.  That's OK, I can roll my own fd_set stuff." >&4
  d_fd_set="$undef"
  d_fds_bits="$undef"
  d_fd_macros="$undef"
 fi
fi
$rm -f fd_set*
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_fd_set.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_hasmntopt: Inlibc
?MAKE: -pick add $@ %<
?S:d_hasmntopt:
?S: This variable conditionally defines the HAS_HASMNTOPT symbol, which
?S: indicates to the C program that the hasmntopt() routine is available
?S: to query the mount options of file systems.
?S:.
?C:HAS_HASMNTOPT:
?C: This symbol, if defined, indicates that the hasmntopt routine is
?C: available to query the mount options of file systems.
?C:.
?H:#$d_hasmntopt HAS_HASMNTOPT  /**/
?H:.
?LINT:set d_hasmntopt
: see if hasmntopt exists
set hasmntopt d_hasmntopt
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_hasmntopt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: newslib.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: newslib.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:23  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?MAKE:newslib newslibexp: test inews Oldconfig Getfile
?MAKE: -pick add $@ %<
?S:newslib:
?S: This variable contains the eventual value of the NEWSLIB symbol,
?S: which holds the name of the directory serving as the news library.
?S: It may have a ~ on the front.  See newslibexp for expanded version.
?S:.
?S:newslibexp:
?S: This variable contains
 the ~ expanded name of the news library
?S: directory.  See newslib.
?S:.
?C:NEWSLIB:
?C: This symbol contains the name of the directory serving as the news
?C: library.  The program must be prepared to do ~ expansion on it.
?C:.
?C:NEWSLIB_EXP:
?C: This symbol is the ~ expanded version of NEWSLIB, for programs that
?C: do not wish to deal with it at run-time.
?C:.
?H:#define NEWSLIB "$newslib"  /**/
?H:#define NEWSLIB_EXP "$newslibexp" /**/
?H:.
?LINT:change inews
: figure out news library
case "$newslib" in
")
 dflt=/usr/lib/news
 ;;
*)  dflt=$newslib ;;
esac
echo " "
fn=d~
rp='Where is your news library?'
. ./getfile
newslib="$ans"
newslibexp="$ansexp"
if $test -f $newslibexp/inews; then
 echo "Aha!  Inews is really in $newslibexp!  Maybe this is 2.10.2..." >&4
 case "$inews" in
 inews)
  : null
  ;;
 *) echo "(Make sure $inews isn't an old version.)";;
 esac
 inews=$newslibexp/inews
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/newslib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: dlsrc.U,v$
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: dlsrc.U,v $
?RCS:
?X:  hpux support thanks to Jeff Okamoto <okamoto@hpcc101.corp.hp.com>
?X:
?X:  To create a shared library, you must compile ALL source files in the
?X:  library with +z (or possibly +Z if the library is whopping huge),
?X:  then link the library with -b.  Example:
?X:   cc -c +z module_a.c
?X:   cc -c +z module_b.c
?X:   ld -b module_a.o module_b.o -o module.sl
?X:
?MAKE:usedl ld dlsrc cccdlflags lddlflags ccdlflags bin_ELF ld_can_script: \
 rm_try Getfile Myread test osname sed d_dlopen Findhdr Setvar \
 src run cc ccflags ldflags optimize ls gccversion cat rsrc i_stdlib \
 i_unistd osvers sysroot
?MAKE: -pick add $@ %<
?Y:BOTTOM
?S:usedl:
?S: This variable
 indicates if the system supports dynamic
?S: loading of some sort.  See also dlsrc and dlobj.
?S:.
?S:ld:
?S: This variable indicates the program to be used to link
?S: libraries for dynamic loading.  On some systems, it is 'ld'.
?S: On ELF systems, it should be $cc.  Mostly, we'll try to respect
?S: the hint file setting.
?S:.
?S:dlsrc:
?S: This variable contains the name of the dynamic loading file that
?S: will be used with the package.
?S:.
?S:cccdlflags:
?S: This variable contains any special flags that might need to be
?S: passed with 'cc -c' to compile modules to be used to create a shared
```

```
?S: library that will be used for dynamic loading.  For hpux, this
?S: should be +z.  It is up to the makefile to use it.
?S:.
?S:lddlflags:
?S: This variable contains any special flags that might need to be
?S: passed to $ld to create a shared library suitable for dynamic
?S: loading.  It is up to the makefile to use it.  For hpux, it
?S: should be '-b'.  For sunos 4.1, it is empty.
?S:.
?S:ccdlflags:
?S: This
 variable contains any special flags that might need to be
?S: passed to cc to link with a shared library for dynamic loading.
?S: It is up to the makefile to use it.  For sunos 4.1, it should
?S: be empty.
?S:.
?S:bin_ELF:
?S: This variable saves the result from configure if generated binaries
?S: are in ELF format. Only set to defined when the test has actually
?S: been performed, and the result was positive.
?S:.
?S:ld_can_script:
?S: This variable shows if the loader accepts scripts in the form of
?S: -Wl,--version-script=ld.script. This is currently only supported
?S: for GNU ld on ELF in dynamic loading builds.
?S:.
?C:USE_DYNAMIC_LOADING ~ %<:
?C: This symbol, if defined, indicates that dynamic loading of
?C: some sort is available.
?C:.
?H:?%<:#$usedl USE_DYNAMIC_LOADING  /**/
?H:.
?W:%<:dlopen
?T:dldir thisflag tdir
?F:!a.out
: determine which dynamic loading, if any, to compile in
echo " "
dldir="ext/DynaLoader"
case "$usedl" in
   $define|y|true)
 dflt='y'
 usedl="$define"
 ;;
    $undef|n|false)
 dflt='n'
 usedl="$undef"
 ;;
   *)
```

```
 dflt='n'
 case "$d_dlopen" in
     $define) dflt='y' ;;
 esac
 : Does a dl_xxx.xs file exist for this operating system
 $test -f $rsrc/$dldir/dl_${osname}.xs && dflt='y'
 ;;
esac
rp="Do you wish to use dynamic loading?"
. ./myread
usedl="$ans"
bin_ELF="$undef"
case "$ans" in
   y*) usedl="$define"
 case "$dlsrc" in
     ") if $test -f $rsrc/$dldir/dl_${osname}.xs ; then
      dflt="$dldir/dl_${osname}.xs"
  elif $test "$d_dlopen" = "$define" ; then
      dflt="$dldir/dl_dlopen.xs"
  else
      dflt="
  fi
  ;;
     *)  dflt="$dldir/$dlsrc"
  ;;
 esac
 echo "The following dynamic loading files are available:"
 : Can not go over to $dldir because getfile has path hard-coded in.
 tdir=`pwd`; cd "$rsrc"; $ls -C $dldir/dl*.xs; cd "$tdir"
 rp="Source file to use for dynamic loading"
 fn="fne"
 gfpth="$src"
 . ./getfile
 usedl="$define"
 : emulate basename
 dlsrc=`echo $ans | $sed -e 's%.*/\([^/]*\)$%\1%'`

 $cat
 << EOM

Some systems may require passing special flags to $cc -c to
compile modules that will be used to create a shared library.
To use no flags, say "none".

EOM
 case "$cccdlflags" in
     ") case "$gccversion" in
  ") case "$osname" in
```

```
  hpux) dflt='+z' ;;
  irix*) dflt='-KPIC' ;;
  svr4*|esix*|solaris|nonstopux) dflt='-KPIC' ;;
  sunos) dflt='-pic' ;;
  *) dflt='none' ;;
     esac
     ;;
 *)  case "$osname" in
  darwin) dflt='none' ;;
  *linux*|svr4*|esix*|solaris|nonstopux) dflt='-fPIC' ;;
  *) dflt='-fpic' ;;
     esac ;;
 esac ;;
    ' ') dflt='none' ;;
    *)   dflt="$cccdlflags" ;;
esac

case "$dflt" in
    none) dflt=" ;;
esac

# If -Dsysroot was specified, now's the time to add it
# to cccdlflags
if test "X$sysroot" != X; then
    case "$gccversion" in
 ") ;;
 *)  case "$dflt" in
  *sysroot*) ;;
  'undef'|*)
      dflt="$dflt --sysroot=$sysroot" ;;
     esac
     ;;
    esac
fi

case "$dflt" in
    ") dflt='none';;
esac

rp="Any
special flags to pass to $cc -c to compile shared library modules?"
. ./myread
case "$ans" in
?X: Use ' ' so that a subsequent Configure run preserves the old state.
    none) cccdlflags=' ' ;;
    *)    cccdlflags="$ans" ;;
esac
```

```
 cat << EOM

Some systems use ld to create libraries that can be dynamically loaded,
while other systems (such as those using ELF) use $cc.

EOM

: Determine if this is ELF
 $cat >try.c <<EOM
/* Test for whether ELF binaries are produced */
#include <fcntl.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_unistd I_UNISTD
#ifdef I_UNISTD
#include <unistd.h>
#endif
int main() {
   char b[4];
   int i = open("a.out",O_RDONLY);
   if(i == -1)
 exit(1); /* fail */
   if(read(i,b,4)==4 && b[0]==127 && b[1]=='E' && b[2]=='L' && b[3]=='F')
 exit(0); /* succeed (yes, it is ELF) */
   exit(1); /* fail */
}
EOM
 if $cc $ccflags $ldflags -o a.out try.c >/dev/null 2>&1 && $run ./a.out; then
     bin_ELF="$define"
 fi
 $rm_try

 case "$ld" in

    ") if $test $bin_ELF = "$define"; then
      cat <<EOM
You appear to have ELF support.  I'll use $cc to build dynamic libraries.
EOM
      dflt="$cc"
  else
      echo "I'll use ld to build dynamic libraries."
      dflt='ld'
  fi
  ;;
    *)  dflt="$ld"
  ;;
```

```
esac

rp="What command should be used to create dynamic libraries?"
. ./myread
ld="$ans"

cat << EOM

Some systems may require passing special flags to $ld to create a
library that can be dynamically loaded.  If your ld flags include
-L/other/path options to locate libraries outside your loader's normal
search path, you may need to specify those -L options here as well.  To
use no flags, say "none".

EOM
case "$lddlflags" in
    ") case "$osname" in
     haiku) dflt='-shared' ;;
     hpux) dflt='-b';
    case "$gccversion" in
        ") dflt="$dflt +vnocompatwarnings" ;;
    esac
    ;;
     *linux*|irix*|gnu*)  dflt="-shared $optimize" ;;
     solaris) # See [perl #66604].
      # On Solaris 11, gcc -m64
on amd64
      # appears not to understand -G.  gcc versions at
      # least as old as 3.4.3 support -shared, so just
      # use that with Solaris 11 and later, but keep
      # the old behavior for older Solaris versions.
      case "$gccversion" in
   ") dflt='-G' ;;
   *)  case "$osvers" in
    2.?|2.10) dflt='-G' ;;
    *) dflt='-shared' ;;
       esac
       ;;
      esac
      ;;
     sunos) dflt='-assert nodefinitions' ;;
     svr4*|esix*|nonstopux) dflt="-G $ldflags" ;;
     *)     dflt='none' ;;
 esac
 ;;
    *) dflt="$lddlflags" ;;
esac
```

```
: Only do this for gcc, since, for example, qcc has no concept
: of --sysroot.
if $test "X$sysroot" != X; then
    case "$gccversion" in
 ") ;;
 *)  dflt="$dflt --sysroot=$sysroot" ;;
    esac
fi

: Try to guess additional flags to pick up local libraries.
: Be careful not to append to a plain 'none'
case "$dflt" in
    none) dflt=" ;;
esac
for thisflag in $ldflags; do
    case "$thisflag" in
 -L*|-R*|-Wl,-R*)

   case " $dflt " in
  *" $thisflag "*) ;;
  *) dflt="$dflt $thisflag" ;;
     esac
     ;;
    esac
done

case "$dflt" in
    "|' ') dflt='none' ;;
esac

case "$ldflags" in
    *-fstack-protector-strong*)
 case "$dflt" in
     *-fstack-protector-strong*) ;; # Don't add it again
     *) dflt="$dflt -fstack-protector-strong" ;;
 esac
 ;;
    *-fstack-protector*)
 case "$dflt" in
     *-fstack-protector*) ;; # Don't add it again
     *) dflt="$dflt -fstack-protector" ;;
 esac
 ;;
esac

rp="Any special flags to pass to $ld to create a dynamically loaded library?"
. ./myread
case "$ans" in
```

```
?X: Use ' ' so that a subsequent Configure run preserves the old state.
    none) lddlflags=' ' ;;
    *) lddlflags="$ans" ;;
 esac

 cat <<EOM

Some systems may require passing special flags to $cc to indicate that
the resulting executable will use dynamic linking.  To use no flags,
say "none".

EOM
 case "$ccdlflags" in
    ") case "$osname" in
     *linux*|hpux|gnu*)
 dflt='-Wl,-E' ;;
     sunos)             dflt='none'   ;;
     *)                 dflt='none'   ;;
  esac ;;
    ' ') dflt='none' ;;
    *)   dflt="$ccdlflags" ;;
 esac
 rp="Any special flags to pass to $cc to use dynamic linking?"
 . ./myread
 case "$ans" in
?X: Use ' ' so that a subsequent Configure run preserves the old state.
    none) ccdlflags=' ' ;;
    *)    ccdlflags="$ans" ;;
 esac
 ;;
?X: End of usedl=y section

   *)  usedl="$undef"
 ld='ld'
 dlsrc='dl_none.xs'
 lddlflags=''
 ccdlflags=''
 ;;
esac

ld_can_script="$undef"
case "$bin_ELF$usedl" in
   $define$define)
 # Abuse try.h and a.out names for neat cleanup
 $cat >try.c <<EOM
void foo() {}
void bar() {}
EOM
```

```
 $cat >try.h <<EOM
LIBTEST_42 {
global:
 foo;
local: *;
};
EOM
 if $cc $cccdlflags $ccdlflags $ccflags \
        $ldflags $lddlflags -o a.out try.c \
        -Wl,--version-script=try.h >/dev/null 2>&1 \
    &&  $test -s a.out ; then
     echo "ld supports scripting" >&4
     ld_can_script="$define"
 else

    echo "ld does not support scripting" >&4
 fi
 $rm_try
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/dlsrc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_finitel: Inlibc
?MAKE: -pick add $@ %<
?S:d_finitel:
?S: This variable conditionally defines the HAS_FINITEL symbol, which
?S: indicates to the C program that the finitel() routine is available.
?S:.
?C:HAS_FINITEL:
?C: This symbol, if defined, indicates that the finitel routine is
?C: available to check whether a long double is finite
?C: (non-infinity non-NaN).
?C:.
?H:#$d_finitel HAS_FINITEL  /**/
?H:.
?LINT:set d_finitel
: see if finitel exists
```

```
set finitel d_finitel
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_finitel.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setlocale.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_setlocale.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  06:57:51  ram
?RCS: patch30: created
?RCS:
?MAKE:d_setlocale: Inlibc
?MAKE: -pick add $@ %<
?S:d_setlocale:
?S: This variable conditionally defines HAS_SETLOCALE if setlocale() is
?S: available to handle locale-specific ctype implementations.
?S:.
?C:HAS_SETLOCALE:
?C: This symbol, if defined, indicates that the setlocale
 routine is
?C: available to handle locale-specific ctype implementations.
?C:.
?H:#$d_setlocale HAS_SETLOCALE /**/
?H:.
?LINT:set d_setlocale
: see if setlocale exists
set setlocale d_setlocale
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setlocale.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysselct.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysselct.U,v $
?RCS: Revision 3.0.1.1  1993/08/25  14:01:33  ram
?RCS: patch6: added default for i_sysselct
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Look wether <sys/select.h> exists
?X:
?MAKE:i_sysselct: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysselct:
?S: This variable conditionally defines I_SYS_SELECT, which indicates
?S: to the C program that it should include <sys/select.h> in
 order to
?S: get the definition of struct timeval.
?S:.
?C:I_SYS_SELECT (I_SYSSELECT):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/select.h> in order to get definition of struct timeval.
?C:.
?H:#$i_sysselct I_SYS_SELECT /**/
?H:.
?D:i_sysselct="
?LINT:set i_sysselct
: see if sys/select.h has to be included
set sys/select.h i_sysselct
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sysselct.U
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```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: modetype.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:25:07  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:modetype: Myread Typedef
?MAKE: -pick add $@ %<
?S:modetype:
?S: This variable defines modetype to be something like mode_t,
?S: int, unsigned short, or whatever type is used to declare file
?S: modes for system calls.
?S:.
?C:Mode_t:
?C: This symbol holds the type used to declare file modes
?C: for systems calls.
  It is usually mode_t, but may be
?C: int or unsigned short.  It may be necessary to include <sys/types.h>
?C: to get any typedef'ed information.
?C:.
?H:#define Mode_t $modetype  /* file mode parameter for system calls */
?H:.
: see what type is used for mode_t
set mode_t modetype int stdio.h sys/types.h
eval $typedef
dflt="$modetype"
echo " "
rp="What type is used for file modes?"
. ./myread
modetype="$ans"
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/modetype.U
No license file was found, but licenses were detected in source scan.

```
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```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getpagsz.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:13:10  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getpagsz pagesize: Oldconfig Myread Inlibc cat contains +cc +ccflags \
 libs rm Findhdr
?MAKE: -pick add $@ %<
?S:d_getpagsz:
?S: This variable conditionally defines HAS_GETPAGESIZE if getpagesize()
?S: is available to get the system page size.
?S:.
?S:pagesize (pagsize):
?S: This
 variable holds the size in bytes of a system page.
?S:.
?C:HAS_GETPAGESIZE (GETPAGESIZE):
?C: This symbol, if defined, indicates that the getpagesize system call
?C: is available to get system page size, which is the granularity of
?C: many memory management calls.
?C:.
?X: Don't name it PAGESIZE, this is sometimes used by <sys/param.h>
?C:PAGESIZE_VALUE (PAGSIZE):
?C: This symbol holds the size in bytes of a system page (obtained via
?C: the getpagesize() system call at configuration time or asked to the
?C: user if the system call is not available).
?C:.
?H:#$d_getpagsz HAS_GETPAGESIZE  /**/
?H:#define PAGESIZE_VALUE $pagesize /* System page size, in bytes */
?H:.
?F:!page
?T:guess
?LINT:set d_getpagsz
: see if getpagesize exists
set getpagesize d_getpagsz
eval $inlibc

@if pagesize || PAGESIZE_VALUE
: determine the system page size
echo " "
guess=' (OK to guess)'
case "$pagesize" in
```

```
")
 $cat >page.c <<EOP
extern int getpagesize();
int main()
{
 printf("%d\n", getpagesize());
}
EOP
 echo
 "Computing the granularity of memory management calls..." >&4
 dflt='4096'
 case "$d_getpagsz" in
 "$define")
  if $cc $ccflags -o page page.c $libs >/dev/null 2>&1; then
   dflt=`./page`
   guess=''
  else
   echo "(I can't seem to compile the test program--guessing)"
  fi
  ;;
 *)
  if $cc $ccflags -o page page.c $libs -lPW >/dev/null 2>&1; then
   dflt=`./page`
   guess=''
   echo "(For your eyes only: I used the getpagesize() from -lPW.)"
  else
   if $contains PAGESIZE `./findhdr sys/param.h` >/dev/null 2>&1; then
    $cat >page.c <<EOP
#include <sys/param.h>
int main()
{
 printf("%d\n", PAGESIZE);
}
EOP
    if $cc $ccflags -o page page.c $libs >/dev/null 2>&1; then
     dflt=`./page`
     guess=''
     echo "(Using value of PAGESIZE found in <sys/param.h>.)"
    fi
   fi
  fi
  ;;
 esac
 ;;
*) dflt="$pagesize"; guess='';;
esac
rp="What is the system page size, in bytes$guess?"
. ./myread
```

```
pagesize=$ans
$rm -f page.c page

@end
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getpagsz.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: newsspool.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: newsspool.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:newsspool newsspoolexp: Getfile Oldconfig
?MAKE: -pick add $@ %<
?S:newsspool:
?S: This variable contains the eventual value of the NEWSSPOOL symbol,
?S: which is the directory name where news articles are spooled.  It
?S: may have a ~ on the front of it.
?S:.
?S:newsspoolexp:
?S: This is the same as the newsspool variable, but is
 filename expanded
?S: at configuration time, for programs not wanting to deal with it at
?S: run-time.
?S:.
?C:NEWSSPOOL:
?C: This symbol contains the directory name where news articles are
?C: spooled.  The program must be prepared to do ~ expansion on it.
?C:.
?C:NEWSSPOOL_EXP:
?C: This is the same as NEWSSPOOL, but is filename expanded at
?C: configuration time, for use in programs not willing to do so
?C: at run-time.
?C:.
?H:#define NEWSSPOOL "$newsspool" /**/
?H:#define NEWSSPOOL_EXP "$newsspoolexp" /**/
```

```
?H:.
: locate news spool directory
case "$newsspool" in
")
 dflt=/usr/spool/news
 ;;
*) dflt="$newsspool";;
esac
echo " "
fn=d~
rp='Where are news spooled?'
. ./getfile
newsspool="$ans"
newsspoolexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/newsspool.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d__fwalk: Inlibc
?MAKE: -pick add $@ %<
?S:d__fwalk:
?S: This variable conditionally defines HAS__FWALK if _fwalk() is
?S: available to apply a function to all the file handles.
?S:.
?C:HAS__FWALK:
?C: This symbol, if defined, indicates that the _fwalk system call is
?C: available to apply a function to all the file handles.
?C:.
?H:#$d__fwalk HAS__FWALK  /**/
?H:.
?LINT:set d__fwalk
: see if _fwalk exists
set fwalk d__fwalk
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d__fwalk.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: pidtype.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:31:27  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:33  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:pidtype: Myread Typedef
?MAKE: -pick add $@ %<
?S:pidtype:
?S: This variable defines PIDTYPE to be something like pid_t, int,
?S: ushort, or whatever type is used to declare process ids in the kernel.
?S:.
?C:Pid_t (PIDTYPE):
?C: This symbol holds the type
 used to declare process ids in the kernel.
?C: It can be int, uint, pid_t, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Pid_t $pidtype  /* PID type */
?H:.
: see what type pids are declared as in the kernel
set pid_t pidtype int stdio.h sys/types.h
eval $typedef
dflt="$pidtype"
echo " "
rp="What type are process ids on this system declared as?"
. ./myread
pidtype="$ans"
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/pidtype.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethname.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_gethname.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:13:00  ram
?RCS: patch36: call ./xenix explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:11  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_gethname d_uname d_phostname aphostname: phostname cat \
 myhostname package d_portable Loc echo n c +i_whoami +usrinc \
 Myread Guess Oldconfig Csym
?MAKE: -pick add $@ %<
?S:d_gethname:
?S: This variable conditionally
 defines the HAS_GETHOSTNAME symbol, which
?S: indicates to the C program that the gethostname() routine may be
?S: used to derive the host name.
?S:.
?S:d_uname:
?S: This variable conditionally defines the HAS_UNAME symbol, which
?S: indicates to the C program that the uname() routine may be
?S: used to derive the host name.
?S:.
?S:d_phostname:
?S: This variable conditionally defines the HAS_PHOSTNAME symbol, which
?S: contains the shell command which, when fed to popen(), may be
?S: used to derive the host name.
?S:.
?S:aphostname:
?S: This variable contains the command which can be used to compute the
?S: host name. The command is fully qualified by its absolute path, to make
?S: it safe when used by a process with super-user privileges.
?S:.
?C:HAS_GETHOSTNAME (GETHOSTNAME):
?C: This symbol, if defined, indicates that the C program may use the
?C: gethostname() routine to derive the host name.  See also HAS_UNAME
?C: and PHOSTNAME.
```

```
?C:.
?C:HAS_UNAME (UNAME):
?C: This symbol,
 if defined, indicates that the C program may use the
?C: uname() routine to derive the host name.  See also HAS_GETHOSTNAME
?C: and PHOSTNAME.
?C:.
?C:PHOSTNAME:
?C: This symbol, if defined, indicates the command to feed to the
?C: popen() routine to derive the host name.  See also HAS_GETHOSTNAME
?C: and HAS_UNAME. Note that the command uses a fully qualified path,
?C: so that it is safe even if used by a process with super-user
?C: privileges.
?C:.
?C:HAS_PHOSTNAME:
?C: This symbol, if defined, indicates that the C program may use the
?C: contents of PHOSTNAME as a command to feed to the popen() routine
?C: to derive the host name.
?C:.
?H:?%<:#$d_gethname HAS_GETHOSTNAME /**/
?H:?%<:#$d_uname HAS_UNAME  /**/
?H:?%<:#$d_phostname HAS_PHOSTNAME /**/
?H:?%<:#ifdef HAS_PHOSTNAME
?H:?%<:#define PHOSTNAME "$aphostname" /* How to get the host name */
?H:?%<:#endif
?H:.
?T:file val call
?LINT:change i_whoami
: see how we will look up host name
echo " "
call=''
@if HAS_GETHOSTNAME
if
 set gethostname val -f d_gethname; eval $csym; $val; then
 echo 'gethostname() found.' >&4
 d_gethname="$define"
 call=gethostname
fi
@end
@if HAS_UNAME
if set uname val -f d_uname; eval $csym; $val; then
 if ./xenix; then
  $cat <<'EOM'
uname() was found, but you're running xenix, and older versions of xenix
have a broken uname(). If you don't really know whether your xenix is old
enough to have a broken system call, use the default answer.

EOM
```

```
  dflt=y
  case "$d_uname" in
  "$define") dflt=n;;
  esac
  rp='Is your uname() broken?'
  . ./myread
  case "$ans" in
  n*) d_uname="$define"; call=uname;;
  esac
 else
  echo 'uname() found.' >&4
  d_uname="$define"
  case "$call" in
  ") call=uname ;;
  esac
 fi
fi
@end
case "$d_gethname" in
") d_gethname="$undef";;
esac
case "$d_uname" in
") d_uname="$undef";;
esac
@if PHOSTNAME || MYHOSTNAME
case "$d_uname$d_gethname" in
*define*)
 dflt=n
 cat <<EOM

Every now and then someone has a $call() that lies about the hostname
but can't be fixed
 for political or economic reasons.  If you wish, I can
@if MYHOSTNAME && PHOSTNAME
pretend $call() isn't there and maybe compile in the hostname or
compute it from the '$phostname' command at run-time.
@elsif MYHOSTNAME
pretend $call() isn't there and maybe compile in the hostname.
@elsif PHOSTNAME
pretend $call() isn't there and maybe compute hostname at run-time
thanks to the '$phostname' command.
@elsif WHOAMI
get the hostname from whomai.h (provided you have one).
@else
simply ignore your host name and use someting like "noname" instead.
@end

EOM
```

```
 rp="Shall I ignore $call() from now on?"
 . ./myread
 case "$ans" in
 y*) d_uname="$undef" d_gethname="$undef"; $echo $n "Okay...$c";;
 esac;;
esac
@end
@if PHOSTNAME || aphostname
?X: Compute the full path name for the command
case "$phostname" in
") aphostname=";;
*) case "$aphostname" in
 /*) ;;
 *) set X $phostname
  shift
  file=$1
  shift
  file=`./loc $file $file $pth`
  aphostname=`echo $file $*`
  ;;
 esac
 ;;
esac
@end
@if
 PHOSTNAME && MYHOSTNAME
case "$d_uname$d_gethname" in
*define*) ;;
*)
 case "$phostname" in
 ") ;;
 *)
  $cat <<EOT

There is no gethostname() or uname() on this system.  You have two
possibilities at this point:

1)  You can have your host name ($myhostname) compiled into $package, which
   lets $package start up faster, but makes your binaries non-portable, or
2)  you can have $package use a

 popen("$aphostname","r")

   which will start slower but be more portable.

@ if WHOAMI
Option 1 will give you the option of using whoami.h if you have one.
@ end
```

```
If you want option 2 but with a different command, you can edit config.sh at
the end of this shell script.

EOT
  case "$d_phostname" in
  "$define") dflt=n;;
  "$undef")  dflt=y;;
  ")
   case "$d_portable" in
   "$define") dflt=n ;;
   *) dflt=y ;;
   esac;;
  esac
  rp="Do you want your host name compiled in?"
  . ./myread
  case "$ans" in
  n*) d_phostname="$define" ;;
  *) aphostname=''; d_phostname="$undef";;
  esac;;
 esac
 case
 "$aphostname" in
 ")
@ if WHOAMI
  case "$i_whoami" in
  "$define")
   dflt=y
   $cat <<EOM

No hostname function--you can either use the whoami.h file, which has this line:

 `grep sysname $usrinc/whoami.h`

or you can have the name we came up with earlier ($myhostname) hardwired in.
EOM
   rp="Use whoami.h to get hostname?"
   . ./myread
   case "$ans" in
   n*) i_whoami="$undef";;
   esac
   ;;
  "$undef")
   $cat <<EOM
No hostname function and no whoami.h -- hardwiring "$myhostname".
EOM
   ;;
  esac;;
@ else
```

```
  echo 'No hostname function -- hardwiring "'$myhostname'".' >&4;;
@ end
 esac;;
esac
@elsif PHOSTNAME
case "$d_uname$d_gethname" in
*define*) ;;
*)
 case "$phostname" in
 ")
@ if WHOAMI
  case "$i_whoami" in
  "$define")
   $cat <<EOM

No hostname function--we'll use the whoami.h file, which has this line:

 `grep sysname $usrinc/whoami.h`

EOM
   ;;
  *) echo "There will be no way for $package to get your hostname." >&4;;
  esac;;
@ else
  echo "There will be no way
 for $package to get your hostname." >&4;;
@ end
 *)
 echo "I'll use 'popen("""$aphostname'", "r")"" to get your hostname." >&4
  ;;
 esac;;
esac
@elsif MYHOSTNAME
case "$d_uname$d_gethname" in
*define*) ;;
*)
@ if WHOAMI
 case "$i_whoami" in
 "$define")
  dflt=y
  $cat <<EOM

No hostname function--you can either use the whoami.h file, which has this line:

 `grep sysname $usrinc/whoami.h`

or you can have the name we came up with earlier ($myhostname) hardwired in.
EOM
```

```
  rp="Use whoami.h to get hostname?"
  . ./myread
  case "$ans" in
  n*) i_whoami="$undef";;
  esac
  ;;
 "$undef")
  echo 'No whoami.h--hardwiring "'$myhostname'".' >&4;;
 esac;;
@ else
 echo 'Hardwiring "'$myhostname'".' >&4;;
@ end
esac
@end
case "$d_phostname" in
") d_phostname="$undef";;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_gethname.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_times.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:07:50  ram
?RCS: patch56: typo fix, sytem -> system
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:14:00  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: What is the type returned by times() ?
?X:
?X: Force inclusion of <sys/types.h>
?X:INC: i_systypes
```

```
?MAKE:d_times clocktype: Csym Myread Typedef i_systimes
?MAKE: -pick
 add $@ %<
?S:d_times:
?S: This variable conditionally defines the HAS_TIMES symbol, which indicates
?S: that the times() routine exists.  The times() routine is normally
?S: provided on UNIX systems. You may have to include <sys/times.h>.
?S:.
?S:clocktype:
?S: This variable holds the type returned by times(). It can be long,
?S: or clock_t on BSD sites (in which case <sys/types.h> should be
?S: included).
?S:.
?C:HAS_TIMES (TIMES):
?C: This symbol, if defined, indicates that the times() routine exists.
?C: Note that this became obsolete on some systems (SUNOS), which now
?C: use getrusage(). It may be necessary to include <sys/times.h>.
?C:.
?C:Clock_t (CLOCKTYPE):
?C: This symbol holds the type returned by times(). It can be long,
?C: or clock_t on BSD sites (in which case <sys/types.h> should be
?C: included).
?C:.
?H:#$d_times HAS_TIMES  /**/
?H:#define Clock_t $clocktype /* Clock time */
?H:.
?T:val inc
: see if times exists
echo " "
if set times val -f d_times; eval $csym;
 $val; then
 echo 'times() found.' >&4
 d_times="$define"
 inc=''
 case "$i_systimes" in
 "$define") inc='sys/times.h';;
 esac
 set clock_t clocktype long stdio.h sys/types.h $inc
 eval $typedef
 dflt="$clocktype"
 echo " "
 rp="What type is returned by times() on this system?"
 . ./myread
 clocktype="$ans"
else
 echo 'times() NOT found, hope that will do.' >&4
 d_times="$undef"
?X: The following is needed for typedef (won't like an empty variable)
```

```
 clocktype='int'
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_times.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_stdio_stream_array stdio_stream_array: run \
 Compile cat rm_try Oldconfig Myread Setvar
?MAKE: -pick add $@ %<
?S:d_stdio_stream_array:
?S: This variable tells whether there is an array holding
?S: the stdio streams.
?S:.
?S:stdio_stream_array:
?S: This variable tells the name of the array holding the stdio streams.
?S: Usual values include _iob, __iob, and __sF.
?S:.
?C:HAS_STDIO_STREAM_ARRAY:
?C: This symbol, if defined, tells that there is an array
?C: holding the stdio streams.
?C:.
?C:STDIO_STREAM_ARRAY:
?C: This
 symbol tells the name of the array holding the stdio streams.
?C: Usual values include _iob, __iob, and __sF.
?C:.
?H:#$d_stdio_stream_array HAS_STDIO_STREAM_ARRAY /**/
?H:?%<:#ifdef HAS_STDIO_STREAM_ARRAY
?H:?%<:#define STDIO_STREAM_ARRAY $stdio_stream_array
?H:?%<:#endif
?H:.
?T:s
?F:!try
: Check stream access
$cat >&4 <<EOM
Checking how to access stdio streams by file descriptor number...
```

```
EOM
case "$stdio_stream_array" in
") $cat >try.c <<EOCP
#include <stdio.h>
int main() {
 if (&STDIO_STREAM_ARRAY[fileno(stdin)] == stdin)
   printf("yes\n");
}
EOCP
 for s in _iob __iob __sF
 do
        set try -DSTDIO_STREAM_ARRAY=$s
  if eval $compile; then
   case "`$run ./try`" in
   yes) stdio_stream_array=$s; break ;;
   esac
  fi
 done
 $rm_try
esac
case "$stdio_stream_array" in
") $cat >&4 <<EOM
I can't figure out how to access stdio streams by file descriptor number.
EOM
 d_stdio_stream_array="$undef"
 ;;
*) $cat >&4 <<EOM
You can access stdio streams by file descriptor number
 by the $stdio_stream_array array.
EOM
 d_stdio_stream_array="$define"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/stdio_streams.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_volatile.U,v 3.0.1.2 1995/07/25 14:08:49 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: of the source tree for dist 3.0.

```
?RCS:
?RCS: $Log: d_volatile.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:08:49  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0.1.1  1993/09/09  11:49:51  ram
?RCS: patch9: volatile definition was swapped over with undef
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_volatile: cat +cc +ccflags rm_try Setvar
?MAKE: -pick add $@ %<
?S:d_volatile:
?S: This variable conditionally
 defines the HASVOLATILE symbol, which
?S: indicates to the C program that this C compiler knows about the
?S: volatile declaration.
?S:.
?C:HASVOLATILE ~ %<:
?C: This symbol, if defined, indicates that this C compiler knows about
?C: the volatile declaration.
?C:.
?H:?%<:#$d_volatile HASVOLATILE /**/
?H:?%<:#ifndef HASVOLATILE
?H:?%<:#define volatile
?H:?%<:#endif
?H:.
?LINT:set d_volatile
?LINT:known volatile
: check for volatile keyword
echo " "
echo 'Checking to see if your C compiler knows about "volatile"...' >&4
$cat >try.c <<'EOCP'
int main()
{
?X:
?X: The following seven lines added by Bill Campbell <billc@sierra.com>
?X: detect that MIPS compilers do not handle volatile in all situations.
?X:
 typedef struct _goo_struct goo_struct;
 goo_struct * volatile goo = ((goo_struct *)0);
 struct _goo_struct {
  long long_int;
  int reg_int;
  char char_var;
 };
 typedef unsigned short foo_t;
```

```
 char *volatile foo;
 volatile int bar;
 volatile foo_t blech;
 foo = foo;
}
EOCP
if $cc
 -c $ccflags try.c >/dev/null 2>&1 ; then
 val="$define"
 echo "Yup, it does."
else
 val="$undef"
 echo "Nope, it doesn't."
fi
set d_volatile
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_volatile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Myread.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Myread.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  15:05:39  ram
?RCS: patch61: myread script now starts with a "startsh"
?RCS: patch61: miscellaneous fixes
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:14:22  ram
?RCS: patch45: added & escape allowing user to turn on -d from the prompt
?RCS:
?RCS: Revision 3.0.1.4  1994/10/31  09:48:04  ram
?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U
?RCS:
?RCS: Revision 3.0.1.3  1994/10/29
  15:56:20  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
```

```
?RCS: Revision 3.0.1.2  1993/08/30  08:57:59  ram
?RCS: patch8: added new visible 'nostick' symbol, mainly for Finish.U
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:39:20  ram
?RCS: patch7: now sticks to the question when no default and empty answer
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to do a read.  It allows for shell escapes, default assignment and
?X: parameter evaluation.
?X:
?X: To use this unit, $rp and $dflt must hold the question and the
?X: default answer. The question will be printed by the script itself.
?X: Neither $rp nor $dflt is altered by the script.
?X:
?X: The myread script will stick to the question if no default is proposed
?X: and the user answer is empty, which prevents mistakes. However, at the
?X: end of Configure, there is an exception
 to this rule (Finish.U) where we
?X: set nostick to a non-empty value to allow the Return key to play its role!
?X:
?MAKE:Myread: Options startsh n c trnl
?MAKE: -pick add $@ %<
?V:ans:dflt rp nostick
?F:./myread
?T:COLUMNS xxxm rp dflt answ aok myecho
?LINT:change fastread
?X: Some shells (Ultrix) do not understand ${COLUMNS:-80}, sigh!
: compute the number of columns on the terminal for proper question formatting
case "$COLUMNS" in
") COLUMNS='80';;
esac

: set up the echo used in my read
?X:
?X: This variable is intended to be eval'ed. It will echo the two
?X: variables $rp and $dflt (provided this latter has a non null value).
?X: It is mainly used by the myread script to echo the questions.
?X:
?X: The $n and $c below are substituted before Loc does its silly echo check
?X: so don't put a $ on the echo below so we get builtin, even if $echo is
?X: pointing to /bin/echo.
?X:
myecho="case \"\$xxxm\" in
") echo $n \"\$rp $c\" >&4;;
```

```
*) case \"\$rp\" in
 ") echo $n \"[\$xxxm] $c\";;
 *)
  if
 test \`echo \"\$rp [\$xxxm]  \" | wc -c\` -ge $COLUMNS; then
   echo \"\$rp\" >&4
   echo $n \"[\$xxxm] $c\" >&4
  else
   echo $n \"\$rp [\$xxxm] $c\" >&4
  fi
  ;;
 esac;;
esac"

: now set up to do reads with possible shell escape and default assignment
cat <<EOSC >myread
$startsh
?X:
?X: Save value of default -- do not alter original in case of eval
?X:
xxxm=\$dflt
$myecho
?X:
?X: If there is no default, then stop, regardless of the value in fastread.
?X: In silent mode, no new-line is to be echoed if the question is empty,
?X: since this is used to wait for the "return" key.
?X:
ans='!'
case "\$fastread" in
yes) case "\$dflt" in
 ") ;;
 *) ans=";
  case "\$silent-\$rp" in
  true-) ;;
  *) echo " " >&4;;
  esac;;
 esac;;
*) case "\$silent" in
 true) case "\$rp" in
  ") ans=";;
  esac;;
 esac;;
esac
while expr "X\$ans" : "X!" >/dev/null; do
 read answ
?X:
?X: Run 'eval' on the answer, in order to do variable substitution, in case
?X: the user types $HOME or $WHATEVER.
```

```
 Variables must be evaluated now.
?X: Typing '\$HOME' won't currently prevent from substitution -- use '\\$HOME'
?X: The $1 .. $9 and $*, as well as $@, are available to refer to the
?X: default value.
?X:
 set x \$xxxm
 shift
 aok=''; eval "ans=\\"\$answ\\"" && aok=y
 case  "\$answ" in
?X:
?X: Use "!" and not a plain ! because of a bug in BSD 4.4 shell
?X: (reported by Wayne Davison)
?X: We must handle the shell escapes before dealing with possible variable
?X: substitution, since the shell we're launching in that case will be able
?X: to do it as well as we can -- RAM, 15/03/96
?X
 "!")
  sh 1>&4
  echo " "
  $myecho
  ;;
 !*)
  set x \`expr "X\$ans" : "X!\(.*\)\$"\`
  shift
  sh 1>&4 -c "\$*"
  echo " "
  $myecho
  ;;
 "\$ans")
  case "\$ans" in
?X:
?X: Answers starting with & are hooks allowing to dynamically turn on/off
?X: some Configure options. That's for the future. -- RAM, 09/01/95
?X: Today, we only recognize '& -d' to mean 'go on as if Configure -d, which
?X: is a hardwired
 behaviour compatible with our general scheme.
?X:
  \\&*)
   set x \`expr "X\$ans" : "X&\(.*\)\$"\`
   shift
   case "\$1" in
   -d)
    fastread=yes
    echo "(OK, I'll run with -d after this question.)" >&4
    ;;
   -*)
    echo "*** Sorry, \$1 not supported yet." >&4
    ;;
```

```
  esac
  $myecho
  ans=!
  ;;
 esac;;
*)
 case "\$aok" in
 y)
  echo "*** Substitution done -- please confirm."
  xxxm="\$ans"
  ans=\`echo $n "\$ans$c" | tr '$trnl' ' '\`
  xxxm="\$ans"
  ans=!
  ;;
 *)
  echo "*** Error -- try again."
  ans=!
  ;;
 esac
 $myecho
 ;;
esac
?X: Stick in myread if no default answer and nothing was answered
 case "\$ans\$xxxm\$nostick" in
 ")
  ans=!
  $myecho
  ;;
 esac
done
case "\$ans" in
") ans="\$xxxm";;
esac
EOSC
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Myread.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cf_email.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:05:06  ram
?RCS: patch16: created
?RCS:
?RCS:
?MAKE:cf_email: cat cf_by test myhostname mydomain Oldconfig Myread
?MAKE: -pick add $@ %<
?S:cf_email:
?S: Electronic mail address of the person who ran Configure. This can be
?S: used by units that require the user's e-mail, like MailList.U.
?S:.
?T:cont maildomain
?LINT:extern MAILDOMAIN
: determine the e-mail address of the user who is running us
$cat <<EOM

I need to get your e-mail address
 in Internet format if possible, i.e.
something like user@host.domain. Please answer accurately since I have
no easy means to double check it. The default value provided below
is most probably close to reality but may not be valid from outside
your organization...

EOM
cont=x
while test "$cont"; do
 case "$MAILDOMAIN" in
 ")
  if $test -s /etc/mailname; then
   maildomain=`$cat /etc/mailname`
  else
   maildomain="$myhostname$mydomain"
  fi
  ;;
 *)  maildomain="$MAILDOMAIN";;
 esac
 case "$cf_email" in
 ") dflt="$cf_by@$maildomain";;
 *)  dflt="$cf_email";;
 esac
 rp='What is your e-mail address?'
 . ./myread
 cf_email="$ans"
 case "$cf_email" in
 *@*.*) cont=" ;;
 *)
```

```
  rp='Address does not look like an Internet one.  Use it anyway?'
  case "$fastread" in
  yes) dflt=y ;;
  *) dflt=n ;;
  esac
  . ./myread
  case "$ans" in
  y*) cont=" ;;
  *) echo " " ;;
  esac
  ;;
 esac
done
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/cf_email.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: so.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:30:04  ram
?RCS: patch36: now tells user how he can suppress shared lib lookup (ADO)
?RCS: patch36: removed echo at the top, since it's now in the here-doc (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:07:02  ram
?RCS: patch30: created
?RCS:
?X:
?X: This unit computes the shared-object / shared-lib extension
?X:
?MAKE:so: test libpth Loc Myread Oldconfig cat
?MAKE: -pick add $@ %<
?S:so:
?S: This variable holds the extension used to identify
 shared libraries
?S: (also known as shared objects) on the system. Usually set to 'so'.
?S:.
?T: xxx
```

```
: compute shared library extension
case "$so" in
")
 if xxx=`./loc libc.sl X $libpth`; $test -f "$xxx"; then
  dflt='sl'
 else
  dflt='so'
 fi
 ;;
*) dflt="$so";;
esac
$cat <<EOM

On some systems, shared libraries may be available.  Answer 'none' if
you want to suppress searching of shared libraries for the remainder
of this configuration.

EOM
rp='What is the file extension used for shared libraries?'
. ./myread
so="$ans"
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/so.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fpgetround: Inlibc
?MAKE: -pick add $@ %<
?S:d_fpgetround:
?S: This variable conditionally defines HAS_FPGETROUND if fpgetround()
?S: is available to get the floating point rounding mode.
?S:.
?C:HAS_FPGETROUND:
?C: This symbol, if defined, indicates that the fpgetround routine is
?C: available to get the floating point rounding mode.
?C:.
?H:#$d_fpgetround HAS_FPGETROUND  /**/
?H:.
?LINT:set d_fpgetround
: see if fpgetround exists
set fpgetround d_fpgetround
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fpgetround.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_select.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_select.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_select: Inlibc
?MAKE: -pick add $@ %<
?S:d_select:
?S: This variable conditionally defines HAS_SELECT if select() is
?S: available to select active file descriptors. A <sys/time.h>
?S: inclusion may be necessary for the timeout field.
?S:.
?C:HAS_SELECT:
?C: This symbol, if defined, indicates that the select routine is
?C: available
 to select active file descriptors. If the timeout field
?C: is used, <sys/time.h> may need to be included.
?C:.
?H:#$d_select HAS_SELECT /**/
?H:.
?LINT:set d_select
: see if select exists
set select d_select
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_select.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getgrps.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getgrps.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getgrps: Inlibc
?MAKE: -pick add $@ %<
?S:d_getgrps:
?S: This variable conditionally defines the HAS_GETGROUPS symbol, which
?S: indicates to the C program that the getgroups() routine is available
?S: to get the list of process groups.
?S:.
?C:HAS_GETGROUPS (GETGROUPS):
?C: This symbol, if defined, indicates that the getgroups()
 routine is
?C: available to get the list of process groups.  If unavailable, multiple
?C: groups are probably not supported.
?C:.
?H:#$d_getgrps HAS_GETGROUPS  /**/
?H:.
?LINT:set d_getgrps
: see if getgroups exists
set getgroups d_getgrps
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getgrps.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_lrintl: Inlibc
?MAKE: -pick add $@ %<
?S:d_lrintl:
?S: This variable conditionally defines the HAS_LRINTL symbol, which
?S: indicates to the C program that the lrintl() routine is available
?S: to return the integral value closest to a long double (according
?S: to the current rounding mode).
?S:.
?C:HAS_LRINTL:
?C: This symbol, if defined, indicates that the lrintl routine is
?C: available to return the integral value closest to a long double
```

```
?C: (according to the current rounding mode).
?C:.
?H:#$d_lrintl HAS_LRINTL  /**/
?H:.
?LINT:set d_lrintl
: see if lrintl exists
set lrintl d_lrintl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_lrintl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: mkdep.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: mkdep.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  16:13:07  ram
?RCS: patch61: replaced .o with $_o all over the place
?RCS:
?RCS: Revision 3.0.1.3  1994/10/29  16:25:02  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:15:12  ram
?RCS: patch16: cppflags is now an optional dependency
?RCS:
?RCS: Revision 3.0.1.1  1993/12/15  08:22:39  ram
?RCS: patch15: force zero exit status in all mkdep scripts
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:09:16  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit generates the script 'mkdep' in the top-level directory.
?X: It is up to the makefile to use it for automatic dependencies
?X: generation (usage: 'mkdep [cppflags] -- *.c').
?X:
?MAKE:mkdep: spitshell startsh cpp +cppflags grep contains rm sed sort uniq \
 Getfile Oldconfig eunicefix cat +cc cppminus test pkgsrc _o
```

```
?MAKE: -pick add $@ %<
?S:mkdep:
?S: This variable holds the name of a command to generate makefile
?S: dependencies on the standard output. It is the pathname of the
?S: generated mkdep script.
?S:.
?F:mkdep
?T:IFS arg flags takeflags srcfile toplev filebase inc dir files file dep c
: find out how to generate dependencies
echo " "
echo "Checking how to generate makefile dependencies on your machine..." >&4
?X: We are in the UU directory
toplev=`cd ..;pwd`
$cat >dep.c <<'EOCP'
#include "dep.h"
EOCP
?X: Empty dep.h causes RIOS to barf
$cat >dep.h <<'EOCP'

EOCP
takeflags='flags=""
case
 "$@" in
*--*)
 for arg
 do
  shift
  case "$arg" in
  --) break;;
  *) flags="$flags $arg";;
  esac
 done;;
esac'
case "$mkdep" in
")
 ;;
*)
 if test -f "$mkdep" &&
  $mkdep dep.c >dep.out 2>/dev/null &&
  $contains "dep$_o:.*dep\.h" dep.out >/dev/null 2>&1
 then
  echo "$mkdep works."
?X: If they copied a config.sh from some other place, they'll have a working
?X: mkdep script probably, but not located at the top of the sources.  And
?X: the Makefiles generated by jmake expect an mkdep script in the top dir.
  case "$mkdep" in
  "$pkgsrc/mkdep");;
  *) echo "(copying it to $pkgsrc)"
```

```
   cp $mkdep $pkgsrc/mkdep 2>/dev/null
      if $pkgsrc/mkdep dep.c >dep.out 2>/dev/null &&
    $contains "dep$_o:.*dep\.h" dep.out >/dev/null 2>&1; then
    mkdep=$pkgsrc/mkdep
   else
    echo "Hmm... The copy failed or something... Guessing again..."
    mkdep=
   fi
   ;;
  esac
 else
  mkdep=
 fi
esac

case "$mkdep" in
")
?X: have to figure something out: Try cpp
?X: have
 to pass source names one by one to cpp...
 $spitshell > ../mkdep <<EOM
$startsh
$takeflags
for srcfile
do
 $cpp -M $cppflags \$flags \$srcfile 2>/dev/null
done
exit 0
EOM
 mkdep=$toplev/mkdep
 chmod +x $mkdep
 $eunicefix $mkdep
 if $mkdep dep.c >dep.out 2>/dev/null &&
  $contains "dep$_o:.*dep\.h" dep.out >/dev/null 2>&1
 then
  echo "Looks like we can use $cpp -M."
 else
  mkdep=
 fi
 ;;
esac

case "$mkdep" in
")
?X: have to figure something out: on NeXT, use cc -MM
?X: have to pass source names one by one to cc...
 $spitshell > ../mkdep <<EOM
$startsh
```

```
$takeflags
for srcfile
do
 $cc -MM $cppflags \$flags \$srcfile 2>/dev/null
done
exit 0
EOM
 mkdep=$toplev/mkdep
 chmod +x $mkdep
 $eunicefix $mkdep
 if $mkdep dep.c >dep.out 2>/dev/null &&
  $contains "dep$_o: dep.h" dep.out >/dev/null 2>&1
 then
  echo "Looks like we can use $cc -MM."
 else
  mkdep=
 fi
 ;;
esac

case "$mkdep" in
")
?X: still no luck -- try something fancier.
 $spitshell >../mkdep <<EOS
$startsh
$takeflags
for srcfile
do
 case
 "\$srcfile" in
 *.c) c='.c';;
 *.y) c='.y';;
 *.l) c='.l';;
 esac
 filebase=\`basename \$srcfile \$c\`
 <\$srcfile $cpp $cppminus $cppflags \$flags 2>/dev/null | \\
 $sed -e '/^# *[0-9]/!d' \\
  -e 's/^.*"\(.*\)".*\$/"\$filebase'$_o: \1/' \\
  -e 's|: \./|: |' \\
  -e 's|: *$|: "\$srcfile"|' | \\
 $grep -v '^#' | $sort | $uniq
done
exit 0
EOS
 mkdep=$toplev/mkdep
 chmod +x $mkdep
 $eunicefix $mkdep
 if $mkdep dep.c >dep.out 2>/dev/null &&
```

```
  $contains "dep$_o:.*dep\.h" dep.out >/dev/null 2>&1
 then
  echo "A shell script using $cpp does the trick."
 else
  echo "$cpp doesn't seem to be any use at all."
  $spitshell >../mkdep <<EOS
$startsh
$takeflags
files="\$@"
set X \$flags
shift
inc='.'
while test \$# -gt 0
do
 case "\$1" in
 -I)
  shift
  inc="\$inc:\$1"
  ;;
 -I*)
  dir=\`echo \$1 | sed -e 's/^-I//'\`
  inc="\$inc:\$dir"
  ;;
 esac
 shift
done
set X \$files
shift
trap "$rm -f /tmp/mkdep\$\$; exit 1" 1 2 3 15
for srcfile
do
 case "\$srcfile" in
 *.c) c='.c';;
 *.y) c='.y';;
 *.l)
 c='.l';;
 esac
 filebase=\`basename \$srcfile \$c\`
 echo \$filebase$_o: \$srcfile
 $grep '^#[  ]*include' \$srcfile /dev/null | \
 $sed -n -e 's/#[   ]*include[  ]*//' \\
  -e '/<\(.*\)>/ d' \\
  -e 's/:[^"]*"\([^"]*\)".*/: \1/' \\
  -e "s/\\.c:/$_o:/p" > /tmp/mkdep\$\$
?X: Deal with directories specified via -I requests to locate files
 IFS=': '
 while read file dep; do
  for dir in \$inc; do
```

```
   if $test -f "\$dir/\$dep"; then
    dep="\$dir/\$dep"
    break
   fi
  done
  echo "\$file: \$dep" | $sed -e 's,: \./,: ,'
 done </tmp/mkdep\$\$
 IFS=' '
 $rm -f /tmp/mkdep\$\$
done
exit 0
EOS
  mkdep=$toplev/mkdep
  chmod +x $mkdep
  $eunicefix $mkdep
  if $mkdep dep.c >dep.out 2>/dev/null &&
   $contains "dep$_o:.*dep\.h" dep.out >/dev/null 2>&1
  then
   cat << EOM

I can use a script with grep instead, but it will make some incorrect
dependencies, since it doesn't understand about conditional compilation.
Moreover, some dependencies may be missing, because scanning won't be
a
 recursive process.
If you have a program which generates makefile dependencies, you may want
to use it.  If not, you can use the script and edit the Makefile by hand
if you need to.
EOM
  else
   mkdep=
   cat << EOM

I can't seem to generate makefile dependencies at all!  Perhaps you have a
program that does?  If you don't, you might look at the mkdep script to
see if you can create one which works.
EOM
  fi
 fi
esac
echo " "
dflt="$mkdep"
fn=f~/
rp="Name of program to make makefile dependencies?"
. ./getfile
mkdep="$ans"
$rm -f dep.c dep.h dep$_o dep.out
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/mkdep.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getpwent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getpwent: Csym Setvar
?MAKE: -pick add $@ %<
?S:d_getpwent:
?S: This variable conditionally defines the HAS_GETPWENT symbol, which
?S: indicates to the C program that it should use the getpwent()
?S: routine instead of the getpw() routine.
?S:.
?C:HAS_GETPWENT (GETPWENT):
?C: This symbol, if defined, indicates that the getpwent() routine
?C: should be used instead of the getpw()
 routine.
?C:.
?H:#$d_getpwent HAS_GETPWENT /**/
?H:.
?LINT:set d_getpwent
: see if there is a getpwent
echo " "
if set getpwent val -f d_getpwent; eval $csym; $val; then
 echo "getpwent() found." >&4
 val="$define"
else
 echo "No getpwent() found -- will use getpw() instead." >&4
 val="$undef"
fi
set d_getpwent
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/dist/U/d_getpwent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Guess.U,v 3.0.1.5 1995/07/25 13:37:14 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Guess.U,v $
?RCS: Revision 3.0.1.5  1995/07/25  13:37:14  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  15:53:55  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: call ./xenix explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.3  1993/12/15  08:14:35  ram
?RCS: patch15: variable d_bsd was not always set properly
?RCS:
?RCS: Revision 3.0.1.2  1993/08/30  08:57:14  ram
?RCS:
 patch8: fixed comment which wrongly attributed the usrinc symbol
?RCS: patch8: no more ugly messages when no /usr/include/ctype.h
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:37:37  ram
?RCS: patch7: added support for OSF/1 machines
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit hazards some guesses as to what the general nature of the system
?X: is.  The information it collects here is used primarily to establish default
?X: answers to other questions.
?X:
?MAKE:Guess d_eunice d_xenix d_bsd: cat test echo n c contains \
 rm Loc eunicefix tr sysroot
?MAKE: -pick add $@ %<
?S:d_eunice:
?S: This variable conditionally defines the symbols EUNICE and VAX, which
?S: alerts the C program that it must deal with idiosyncrasies of VMS.
?S:.
?S:d_xenix:
```

```
?S: This variable conditionally defines the symbol XENIX, which alerts
?S: the C program that it runs under Xenix.
?S:.
?S:d_bsd:
?S: This symbol conditionally defines the
 symbol BSD when running on a
?S: BSD system.
?S:.
?C:EUNICE:
?C: This symbol, if defined, indicates that the program is being compiled
?C: under the EUNICE package under VMS.  The program will need to handle
?C: things like files that don't go away the first time you unlink them,
?C: due to version numbering.  It will also need to compensate for lack
?C: of a respectable link() command.
?C:.
?X: Should we define VMS here?  Is Eunice actually used anymore?
?X:?C:VMS:
?X:?C: This symbol, if defined, indicates that the program is running under
?X:?C: VMS.  It is currently only set in conjunction with the EUNICE symbol.
?X:?C:.
?C:XENIX:
?C: This symbol, if defined, indicates that the program is running under
?C: Xenix (at least 3.0 ?).
?C:.
?X:  We don't use BSD in the perl source.  It's too vague, and already
?X:  defined in some header files anyway (e.g. NetBSD).  This just gives
?X:  us a spurious redefinition error upon compilation.
?X: --Andy Dougherty  Feb 11, 1998
?X: ?C:BSD:
?X:
 ?C: This symbol, if defined, indicates that the program is running under
?X: ?C: a BSD system.
?X: ?C:.
?H:#$d_eunice EUNICE  /**/
?X:?H:#$d_eunice VMS  /**/
?H:#$d_xenix XENIX  /**/
?X: ?H:#$d_bsd BSD  /**/
?H:.
?F:./bsd ./usg ./v7 ./osf1 ./eunice ./xenix ./venix ./os2
?T:xxx
: make some quick guesses about what we are up against
echo " "
$echo $n "Hmm...  $c"
echo exit 1 >bsd
echo exit 1 >usg
echo exit 1 >v7
echo exit 1 >osf1
echo exit 1 >eunice
```

```
echo exit 1 >xenix
echo exit 1 >venix
echo exit 1 >os2
d_bsd="$undef"
?X:
?X: Do not use 'usrinc', or we get a circular dependency. because
?X: usrinc is defined in usrinc.U, which relies on us...
?X:
$cat $sysroot/usr/include/signal.h $sysroot/usr/include/sys/signal.h >foo 2>/dev/null
if test -f /osf_boot || $contains 'OSF/1' $sysroot/usr/include/ctype.h >/dev/null 2>&1
then
 echo "Looks kind of like an OSF/1 system, but we'll see..."
 echo exit 0 >osf1
elif test `echo abc | $tr a-z A-Z` = Abc ; then
 xxx=`./loc addbib blurfl $pth`
 if $test
 -f $xxx; then
 echo "Looks kind of like a USG system with BSD features, but we'll see..."
  echo exit 0 >bsd
  echo exit 0 >usg
 else
  if $contains SIGTSTP foo >/dev/null 2>&1 ; then
   echo "Looks kind of like an extended USG system, but we'll see..."
  else
   echo "Looks kind of like a USG system, but we'll see..."
  fi
  echo exit 0 >usg
 fi
elif $contains SIGTSTP foo >/dev/null 2>&1 ; then
 echo "Looks kind of like a BSD system, but we'll see..."
 d_bsd="$define"
 echo exit 0 >bsd
else
 echo "Looks kind of like a Version 7 system, but we'll see..."
 echo exit 0 >v7
fi
case "$eunicefix" in
*unixtovms*)
 $cat <<'EOI'
There is, however, a strange, musty smell in the air that reminds me of
something...hmm...yes...I've got it...there's a VMS nearby, or I'm a Blit.
EOI
 echo exit 0 >eunice
 d_eunice="$define"
: it so happens the Eunice I know will not run shell scripts in Unix format
 ;;
*)
 echo " "
```

```
 echo "Congratulations.  You aren't running Eunice."
 d_eunice="$undef"
 ;;
esac
: Detect
 OS2.  The p_ variable is set above in the Head.U unit.
: Note that this also -- wrongly -- detects e.g. dos-djgpp, which also uses
: semicolon as a patch separator
case "$p_" in
:) ;;
*)
 $cat <<'EOI'
I have the feeling something is not exactly right, however...don't tell me...
lemme think...does HAL ring a bell?...no, of course, you're only running OS/2!
(Or you may be running DOS with DJGPP.)
EOI
 echo exit 0 >os2
 ;;
esac
if test -f /xenix; then
 echo "Actually, this looks more like a XENIX system..."
 echo exit 0 >xenix
 d_xenix="$define"
else
 echo " "
 echo "It's not Xenix..."
 d_xenix="$undef"
fi
chmod +x xenix
$eunicefix xenix
if test -f /venix; then
 echo "Actually, this looks more like a VENIX system..."
 echo exit 0 >venix
else
 echo " "
 if ./xenix; then
  : null
 else
  echo "Nor is it Venix..."
 fi
fi
chmod +x bsd usg v7 osf1 eunice xenix venix os2
$eunicefix bsd usg v7 osf1 eunice xenix venix os2
$rm -f foo
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Guess.U

No license file was found, but licenses were detected in source scan.

```
# $Id: errnolist.a,v 3.0 1993/08/18 12:04:35 ram Exp ram $
#
#  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
#
#  You may redistribute only under the terms of the Artistic Licence,
#  as specified in the README file that comes with the distribution.
#  You may reuse parts of this distribution only within the terms of
#  that same Artistic Licence; a copy of which may be found at the root
#  of the source tree for dist 4.0.
#
# Original Author: Harlan Stenn <harlan@mumps.pfcs.com>
#
# $Log: errnolist.a,v $
# Revision 3.0  1993/08/18 12:04:35  ram
# Baseline for dist 3.0 netwide release.
#
#
# This is a simple-minded awk script to generate an initialization for
# sys_errnolist on systems that don't have it.
# This file now depends only on sys/errno.h error numbers under maxerr being
# in order.  It will complain and die if not.  NOTE: It will still produce
# a compilable output file, even with errors, so you
 must check the output.


BEGIN  {
   format = "\t\"%s\",\n"
   printf("/*\n** This is a generated file.  Do NOT edit it unless you really have to...\n*/\n\n")
   printf("char *sys_errnolist[] = {\n")
   maxerr = 89
  }

$1=="#define" {
   if(count > maxerr || substr($2,1,1) != "E")
    next   # we're not interested
   if($3 < count) { # this is bad
    printf("Fatal error: %s out of order at %s\n",\
    FILENAME, $2)>"/dev/tty"
    exit 1
   }
   # fill in the blanks
   while($3 > count) {
    dummy=sprintf("EDUMMY%d",count)
    printf(format,dummy)
    count++
   }
```

```
  printf(format,$2)
  count++
 }

END  {
  printf("\t0\n};\n")
 }
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/lib/errnolist.a
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_dbl_dig.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_dbl_dig.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:28  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_dbl_dig: Myread contains cat rm Setvar \
 cppstdin cppflags cppminus
?MAKE: -pick add $@ %<
?S:d_dbl_dig:
?S: This variable conditionally defines d_dbl_dig if this system's
?S: header files provide DBL_DIG, which is the number of significant
?S: digits in a double precision
 number.
?S:.
?C:HAS_DBL_DIG:
?C: This symbol, if defined, indicates that this system's <float.h>
?C: or <limits.h> defines the symbol DBL_DIG, which is the number
?C: of significant digits in a double precision number.  If this
?C: symbol is not defined, a guess of 15 is usually pretty good.
?C:.
?H:#$d_dbl_dig HAS_DBL_DIG /**/
?H:.
?F:!dbl_dig.c
?LINT:set d_dbl_dig
```

```
: See if number of significant digits in a double precision number is known
echo " "
$cat >dbl_dig.c <<EOM
#include <limits.h>
#include <float.h>
#ifdef DBL_DIG
printf("Contains DBL_DIG");
#endif
EOM
$cppstdin $cppflags $cppminus < dbl_dig.c >dbl_dig.E 2>/dev/null
if $contains 'DBL_DIG' dbl_dig.E >/dev/null 2>&1; then
 echo "DBL_DIG found." >&4
 val="$define"
else
 echo "DBL_DIG NOT found." >&4
 val="$undef"
fi
$rm -f dbl_dig.?
set d_dbl_dig
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_dbl_dig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isinf: Inlibc cat Compile rm_try Setvar
?MAKE: -pick add $@ %<
?S:d_isinf:
?S: This variable conditionally defines the HAS_ISINF symbol, which
?S: indicates to the C program that the isinf() routine is available.
?S:.
?C:HAS_ISINF:
?C: This symbol, if defined, indicates that the isinf routine is
?C: available to check whether a double is an infinity.
?C:.
?H:#$d_isinf HAS_ISINF  /**/
?H:.
?LINT:set d_isinf
: check for isinf
echo "Checking to see if you have isinf..." >&4
```

```
$cat >try.c <<EOCP
#include <math.h>
int main() { return isinf(0.0); }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have isinf."
else
 val="$undef"
 echo "You do not have isinf."
fi
$rm_try
set d_isinf
eval $setvar
```

Found
 in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_isinf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_regcmp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_regcmp.U,v $
?RCS: Revision 3.0.1.1  1995/01/30  14:34:45  ram
?RCS: patch49: now looks for POSIX regcomp() routine
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:53  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_regcmp d_re_comp d_regcomp: Csym cat
?MAKE: -pick add $@ %<
?S:d_regcomp:
?S: This variable conditionally defines the HAS_REGCOMP symbol, which
?S: indicates to the C program that the regcomp() routine is available
?S: for regular
 pattern matching (usually on POSIX.2 conforming systems).
?S:.
?S:d_regcmp:
```

```
?S: This variable conditionally defines the HAS_REGCMP symbol, which
?S: indicates to the C program that the regcmp() routine is available
?S: for regular pattern matching (usually on System V).
?S:.
?S:d_re_comp:
?S: This variable conditionally defines the HAS_RECOMP symbol, which
?S: indicates to the C program that the re_comp() routine is available
?S: for regular pattern matching (usually on BSD). If so, it is likely that
?S: re_exec() exists.
?S:.
?C:HAS_REGCOMP (REGCOMP):
?C: This symbol, if defined, indicates that the regcomp() routine is
?C: available to do some regular pattern matching (usually on POSIX.2
?C: conforming systems).
?C:.
?C:HAS_REGCMP (REGCMP):
?C: This symbol, if defined, indicates that the regcmp() routine is
?C: available to do some regular pattern matching (usually on System V).
?C:.
?C:HAS_RECOMP (RECOMP):
?C: This symbol, if defined, indicates that the re_comp() routine is
?C: available
 to do some regular pattern matching (usually on BSD). If so,
?C: it is likely that re_exec() be available.
?C:.
?H:#$d_regcomp HAS_REGCOMP  /* POSIX.2 */
?H:#$d_regcmp HAS_REGCMP  /* sysV */
?H:#$d_re_comp HAS_RECOMP  /* BSD */
?H:.
?T:val
: see if regcomp, regcmp, or re_comp exist, for regular pattern matching
echo " "
if set regcomp val -f d_regcomp; eval $csym; $val; then
 echo 'regcomp() found.' >&4
 d_regcomp="$define"
 d_regcmp="$undef"
 d_re_comp="$undef"
elif set regcmp val -f d_regcmp; eval $csym; $val; then
 echo 'regcmp() found.' >&4
 d_regcmp="$define"
 d_regcomp="$undef"
 d_re_comp="$undef"
elif set re_comp val -f d_re_comp; eval $csym; $val; then
 echo 're_comp() found, assuming re_exec() also exists.' >&4
 d_re_comp="$define"
 d_regcomp="$undef"
 d_regcmp="$undef"
else
```

```
 $cat >&4 <<EOM
No regcomp(), regcmp() nor re_comp() found !! No regular pattern matching.
EOM
 d_regcmp="$undef"
 d_re_comp="$undef"
 d_regcomp="$undef"
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_regcmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_float.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_float.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:21:57  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:i_float: Inhdr
?MAKE: -pick add $@ %<
?S:i_float:
?S: This variable conditionally defines the I_FLOAT symbol, and indicates
?S: whether a C program may include <float.h> to get symbols like DBL_MAX
?S: or DBL_MIN, i.e. machine dependent floating point values.
?S:.
?C:I_FLOAT:
?C: This
 symbol, if defined, indicates to the C program that it should
?C: include <float.h> to get definition of symbols like DBL_MAX or
?C: DBL_MIN, i.e. machine dependent floating point values.
?C:.
?H:#$i_float I_FLOAT  /**/
?H:.
?LINT:set i_float
: see if this is a float.h system
set float.h i_float
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_float.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getnetent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getnetent_r getnetent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getnetent_r:
?S: This variable conditionally defines the HAS_GETNETENT_R symbol,
?S: which indicates to the C program that the getnetent_r()
?S: routine is available.
?S:.
?S:getnetent_r_proto:
?S: This variable encodes the prototype of getnetent_r.
?S: It is zero if d_getnetent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getnetent_r
?S: is defined.
?S:.
?C:HAS_GETNETENT_R:
?C: This symbol, if defined, indicates that the getnetent_r routine
?C: is
 available to getnetent re-entrantly.
?C:.
?C:GETNETENT_R_PROTO:
?C: This symbol encodes the prototype of getnetent_r.
?C: It is zero if d_getnetent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getnetent_r
?C: is defined.
?C:.
?H:#$d_getnetent_r HAS_GETNETENT_R /**/
?H:#define GETNETENT_R_PROTO $getnetent_r_proto /**/
?H:.
?T:try hdrs d_getnetent_r_proto
: see if getnetent_r exists
set getnetent_r d_getnetent_r
eval $inlibc
case "$d_getnetent_r" in
"$define")
```

```
hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
case "$d_getnetent_r_proto:$usethreads" in
":define") d_getnetent_r_proto=define
 set d_getnetent_r_proto getnetent_r $hdrs
 eval $hasproto ;;
*) ;;
esac
case "$d_getnetent_r_proto" in
define)
case "$getnetent_r_proto" in
"|0) try='int getnetent_r(struct netent*, char*, size_t, struct netent**, int*);'
./protochk "$extern_C $try" $hdrs && getnetent_r_proto=I_SBWRE ;;
esac
case "$getnetent_r_proto" in
"|0) try='int getnetent_r(struct
netent*, char*, int, int*);'
./protochk "$extern_C $try" $hdrs && getnetent_r_proto=I_SBIE ;;
esac
case "$getnetent_r_proto" in
"|0) try='struct netent* getnetent_r(struct netent*, char*, int, int*);'
./protochk "$extern_C $try" $hdrs && getnetent_r_proto=S_SBIE ;;
esac
case "$getnetent_r_proto" in
"|0) try='struct netent* getnetent_r(struct netent*, char*, int);'
./protochk "$extern_C $try" $hdrs && getnetent_r_proto=S_SBI ;;
esac
case "$getnetent_r_proto" in
"|0) try='int getnetent_r(struct netent*, char*, int);'
./protochk "$extern_C $try" $hdrs && getnetent_r_proto=I_SBI ;;
esac
case "$getnetent_r_proto" in
"|0) try='int getnetent_r(struct netent*, struct netent_data*);'
./protochk "$extern_C $try" $hdrs && getnetent_r_proto=I_SD ;;
esac
case "$getnetent_r_proto" in
"|0) d_getnetent_r=undef
 getnetent_r_proto=0
 echo "Disabling getnetent_r, cannot determine prototype." >&4 ;;
* ) case "$getnetent_r_proto" in
 REENTRANT_PROTO*) ;;
 *) getnetent_r_proto="REENTRANT_PROTO_$getnetent_r_proto"
;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "getnetent_r has no prototype, not using it." >&4 ;;
```

```
  esac
  d_getnetent_r=undef
  getnetent_r_proto=0
  ;;
 esac
 ;;
*) getnetent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getnetent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libdbm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libdbm.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:56:57  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libdbm: test Loc libpth _a
?MAKE: -pick add $@ %<
?S:libdbm:
?S: This variable contains the argument to pass to the loader in order
?S: to get the dbm library routines.  If there is no dbm or ndbm
?S: library, it is null.
?S:.
?T:xxx
:
 see if we should include -ldbm
echo " "
if $test -r /usr/lib/libndbm$_a || $test -r /usr/local/lib/libndbm$_a ; then
 echo "-lndbm found." >&4
 libdbm='-lndbm'
elif $test -r /usr/lib/libdbm$_a || $test -r /usr/local/lib/libdbm$_a ; then
 echo "-ldbm found." >&4
```

```
 libdbm='-ldbm'
else
 xxx=`./loc libdbm$_a x $libpth`
 case "$xxx" in
 x)
  echo "No dbm library found." >&4
  libdbm=''
  ;;
 *)
  echo "DBM library found in $xxx." >&4
  libdbm="$xxx"
  ;;
 esac
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/libdbm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: perlpath.U,v $
?RCS: Revision 3.0.1.2  1995/09/25  09:17:04  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:33:53  ram
?RCS: patch45: can now use Loc variables since path stripping is deferred
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:32  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this unit is to locate perl good enough to construct a #!
?X:
?MAKE:perlpath: Getfile Oldconfig Loc perl
?MAKE: -pick
 add $@ %<
?Y:TOP
?S:perlpath:
```

```
?S: This variable contains the eventual value of the PERLPATH symbol,
?S: which contains the absolute location of the perl interpreter.
?S:.
?C:PERLPATH:
?C: This symbol contains the absolute location of the perl interpreter.
?C:.
?H:#define PERLPATH "$perlpath"  /**/
?H:.
: determine perl absolute location
case "$perlpath" in
")
 if test -f /usr/bin/perl; then
  dflt=/usr/bin/perl
 else
  case "$perl" in
  */*) dflt="$perl";;
  *) dflt=/usr/bin/perl;;
  esac
 fi
 ;;
*)  dflt="$perlpath"
 ;;
esac
echo " "
fn=f~/
rp="Where is perl located on your system?"
. ./getfile
perlpath="$ans"
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/perlpath.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sem.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:d_sem: test d_semctl d_semget d_semop Setvar Findhdr osname
?MAKE: -pick add $@ %<
?S:d_sem:
?S: This variable conditionally defines the HAS_SEM symbol, which
?S: indicates that the entire sem*(2) library is present.
?S:.
?C:HAS_SEM:
?C: This symbol, if defined, indicates that the entire sem*(2) library is
?C: supported.
?C:.
?H:#$d_sem HAS_SEM  /**/
?H:.
?T:h_sem
?LINT:set d_sem
:
 see how much of the 'sem*(2)' library is present.
h_sem=true
echo " "
case "$d_semctl$d_semget$d_semop" in
*"$undef"*) h_sem=false;;
esac
case "$osname" in
freebsd)
   case "`ipcs 2>&1`" in
   "SVID messages"*"not configured"*)
 echo "Your $osname does not have the sem*(2) configured." >&4
       h_sem=false
 val="$undef"
 set semctl d_semctl
 eval $setvar
 set semget d_semget
 eval $setvar
 set semop d_semop
 eval $setvar
 ;;
   esac
   ;;
esac
: we could also check for sys/ipc.h ...
if $h_sem && $test `./findhdr sys/sem.h`; then
 echo "You have the full sem*(2) library." >&4
 val="$define"
else
 echo "You don't have the full sem*(2) library." >&4
 val="$undef"
fi
set d_sem
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sem.U
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```
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: abortsig.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:02:19  ram
?RCS: patch36: call ./usg explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:20  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:abortsig: Myread Oldconfig Guess cat +cc ccflags rm
?MAKE: -pick add $@ %<
?S:abortsig:
?S: This variable holds the name of the signal used by the abort() call.
?S:.
?C:ABORTSIG:
?C: This symbol holds the signal number (symbol) used by the abort() call. To
?C: actually
 define the signal symbol, <signal.h> should be included.
?C:.
?H:#define ABORTSIG $abortsig  /**/
?H:.
?T:signal
: which signal is sent by abort ?
echo " "
case "$abortsig" in
")
 echo "Checking to see which signal is sent to the process by abort()..." >&4
 echo "abort" > abort.sh
 chmod +x abort.sh
?X: SIGABRT should replace SIGIOT on USG machines in a near future (1991).
 for signal in SIGIOT SIGILL SIGABRT; do
  case "$abortsig" in
  ") $cat >abort.c <<EOP
/* FIXME: Missing #include <stdlib.h>*/
```

```
#include <signal.h>
caught() { exit(0); } /* FIXME: Use _exit() or _Exit() in signal handler  */
int main()
{
#ifdef $signal
 signal($signal, caught);
#endif
 if (-1 == abort())
  exit(1);
 exit(1);
}
EOP
?X: We have to use the abort.sh script otherwise sh behaves strangely on AIX.
   if $cc $ccflags -o abort abort.c >/dev/null 2>&1; then
    (./abort.sh) >/dev/null 2>&1
    case $? in
    0) abortsig="$signal";;
    esac
   fi
   ;;
  esac
 done
 ;;
esac
case "$abortsig" in
") echo
 "(I wasn't able to compute the signal name--guessing)"
 if ./usg; then
  dflt="SIGIOT"
 else
  dflt="SIGILL"
 fi;;
*)  dflt="$abortsig"
 ;;
esac
rp="Which signal does abort() send to the process (signal name)?"
. ./myread
abortsig="$ans"
$rm -f core abort.sh abort abort.c
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/abortsig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strstr.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strstr.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:37  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strstr: Inlibc
?MAKE: -pick add $@ %<
?S:d_strstr:
?S: This variable conditionally defines HAS_STRSTR if strstr() is
?S: available to find substrings.
?S:.
?C:HAS_STRSTR (STRSTR):
?C: This symbol, if defined, indicates that the strstr routine is
?C: available to find substrings.
?C:.
?H:#$d_strstr HAS_STRSTR /**/
?H:.
?LINT:set d_strstr
:
 see if strstr exists
set strstr d_strstr
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strstr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_exp2: Inlibc
?MAKE: -pick add $@ %<
?S:d_exp2:
?S: This variable conditionally defines the HAS_EXP2 symbol, which
?S: indicates to the C program that the exp2() routine is available.
?S:.
?C:HAS_EXP2:
?C: This symbol, if defined, indicates that the exp2 routine is
?C: available to do the 2**x function.
?C:.
?H:#$d_exp2 HAS_EXP2  /**/
```

```
?H:.
?LINT:set d_exp2
: see if exp2 exists
set exp2 d_exp2
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_exp2.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_popen.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_popen.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_popen: Inlibc
?MAKE: -pick add $@ %<
?S:d_popen:
?S: This variable conditionally defines HAS_POPEN if popen() is
?S: available to open a pipe from a process.
?S:.
?C:HAS_POPEN (POPEN):
?C: This symbol, if defined, indicates that the popen routine is
?C: available to open a pipe from a process.
?C:.
?H:#$d_popen HAS_POPEN  /**/
?H:.
?LINT:set
 d_popen
: see if popen exists
set popen d_popen
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_popen.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: errnolist.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:48:01  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: likewise for .o replaced by $_o
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:10:54  ram
?RCS: patch16: created
?RCS:
?MAKE:errnolist errnolist_SH errnolist_a errnolist_c errnolist_o: cat +cc \
 +ccflags +libs +d_sysernlst _a _o
?MAKE: -pick add $@ %<
?S:errnolist:
?S: This variable holds the base name of a file containing the
?S: definition of the sys_errnolist
 array, if the C library
?S: doesn't provide it already.  Otherwise, its value is empty.
?S: The following lines should be included in your Makefile.SH:
?S:
?S:  case "$errnolist" in
?S:  ") ;;
?S:  *)
?S:   $spitshell >>Makefile <<!GROK!THIS!
?S:  $errnolist_c: $errnolist_SH $errnolist_a
?S:   sh ./$errnolist_SH
?S:
?S:  !GROK!THIS!
?S:   ;;
?S:  esac
?S:
?S: You may define the 'errnolist' variable in your Myinit.U if you
?S: wish to override its default value "errnolist".
?S:.
?S:errnolist_SH:
?S: This is the name of a file which will generate errnolistc.
?S:.
?S:errnolist_a:
?S: This is the name of the awk script called by errnolist_SH.
?S:.
```

```
?S:errnolist_c:
?S: This is the name of a generated C file which provides the
?S: definition of the sys_errnolist array.
?S:.
?S:errnolist_o:
?S: This is the name of the object file which provides the
?S: definition of the sys_errnolist array, if the C library
?S: doesn't provide it already.  Otherwise, its value is empty.
?S:.
?INIT:errnolist=errnolist
:
 check for sys_errnolist
@if d_sysernlst || HAS_SYS_ERRNOLIST
case "$d_sysernlst" in
"$define")
   errnolist=''
   errnolist_SH=''
   errnolist_a=''
   errnolist_c=''
   errnolist_o=''
 ;;
*)
 echo " "
 echo "I'll make sure your Makefile provides sys_errnolist in $errnolist.c"
   errnolist_SH=$errnolist.SH
   errnolist_a=$errnolist$_a
   errnolist_c=$errnolist.c
   errnolist_o=$errnolist$_o
 ;;
esac
@else
echo " "
$cat <<EOM
Checking to see if your C library provides us with sys_errnolist[]...
EOM
$cat >errnolist.c <<'EOCP'
extern char *sys_errnolist[];
int main() {
   char *p0 = sys_errnolist[0];
   char *p1 = sys_errnolist[1];

   return (p0 == p1); /* Make sure they're not optimized away */
}
EOCP
if $cc $ccflags -o errnolist errnolist.c $libs >/dev/null 2>&1 ; then
   echo "It does."
   errnolist=''
   errnolist_SH=''
```

```
   errnolist_a="
   errnolist_c="
   errnolist_o="
else
 echo "I'll make sure your Makefile provides sys_errnolist in $errnolist.c"

   errnolist_SH=$errnolist.SH
   errnolist_a=$errnolist$_a
   errnolist_c=$errnolist.c
   errnolist_o=$errnolist$_o
fi
@end
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/errnolist.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_memcpy.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memcpy.U,v $
?RCS: Revision 3.0.1.1  1993/09/13  16:02:58  ram
?RCS: patch10: removed text recommending bcopy over memcpy (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:34  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_memcpy: Inlibc
?MAKE: -pick add $@ %<
?S:d_memcpy:
?S: This variable conditionally defines the HAS_MEMCPY symbol, which
?S: indicates to the C program that the memcpy() routine is available
?S: to copy blocks of
 memory.
?S:.
?C:HAS_MEMCPY (MEMCPY):
?C: This symbol, if defined, indicates that the memcpy routine is available
?C: to copy blocks of memory.
?C:.
?H:#$d_memcpy HAS_MEMCPY /**/
```

```
?H:.
?LINT:set d_memcpy
: see if memcpy exists
set memcpy d_memcpy
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_memcpy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_math.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_math.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:21:59  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:i_math: Inhdr
?MAKE: -pick add $@ %<
?X: Are there really systems that *DON'T* have math.h?
?S:i_math:
?S: This variable conditionally defines the I_MATH symbol, and indicates
?S: whether a C program may include <math.h>.
?S:.
?C:I_MATH:
?C: This symbol, if defined, indicates
 to the C program that it should
?C: include <math.h>.
?C:.
?H:#$i_math I_MATH  /**/
?H:.
?LINT:set i_math
: see if this is a math.h system
set math.h i_math
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/dist/U/i_math.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_castneg.U,v 3.0.1.2 1995/05/12 12:11:21 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_castneg.U,v $
?RCS: Revision 3.0.1.2  1995/05/12  12:11:21  ram
?RCS: patch54: made sure cc and ccflags are conditional dependencies
?RCS: patch54: added improved test case for Interactive Unix
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:10:50  ram
?RCS: patch36: don't forget to tell user about compilation failures (ADO)
?RCS: patch36: declare signal handler correctly using 'signal_t' (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:47  ram
?RCS: Baseline
 for dist 3.0 netwide release.
?RCS:
?X:
?X: Can the compiler cast negative / odd floats to unsigned values.
?X:
?MAKE:d_castneg castflags: cat Compile rm_try Setvar signal_t run i_stdlib
?MAKE: -pick add $@ %<
?S:d_castneg:
?S: This variable conditionally defines CASTNEG, which indicates
?S: whether the C compiler can cast negative float to unsigned.
?S:.
?S:castflags:
?S: This variable contains a flag that precise difficulties the
?S: compiler has casting odd floating values to unsigned long:
?S:  0 = ok
?S:  1 = couldn't cast < 0
?S:  2 = couldn't cast >= 0x80000000
?S:  4 = couldn't cast in argument expression list
?S:.
?C:CASTNEGFLOAT:
?C: This symbol is defined if the C compiler can cast negative
?C: numbers to unsigned longs, ints and shorts.
?C:.
?C:CASTFLAGS:
```

```
?C: This symbol contains flags that say what difficulties the compiler
?C: has casting odd floating values to unsigned long:
?C:  0 = ok
?C:  1 = couldn't cast < 0
?C:  2 = couldn't cast >= 0x80000000
?C:  4 = couldn't
 cast in argument expression list
?C:.
?H:#$d_castneg CASTNEGFLOAT  /**/
?H:#define CASTFLAGS $castflags  /**/
?H:.
?F:!try
?LINT:set d_castneg
: check for ability to cast negative floats to unsigned
echo " "
echo 'Checking whether your C compiler can cast negative float to unsigned.' >&4
$cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <sys/types.h>
#include <signal.h>
$signal_t blech(int s) { exit(7); }
$signal_t blech_in_list(int s) { exit(4); }
unsigned long dummy_long(unsigned long p) { return p; }
unsigned int dummy_int(unsigned int p) { return p; }
unsigned short dummy_short(unsigned short p) { return p; }
int main()
{
 double f;
 unsigned long along;
 unsigned int aint;
 unsigned short ashort;
 int result = 0;
 char str[16];

 /* Frustrate gcc-2.7.2's optimizer which failed this test with
    a direct f = -123. assignment.  gcc-2.8.0 reportedly
    optimized the whole file away
 */
 /* Store the number in a writable
 string for gcc to pass to
    sscanf under HP-UX.
 */
 sprintf(str, "-123");
 sscanf(str, "%lf", &f);  /* f = -123.; */
```

```
signal(SIGFPE, blech);
along = (unsigned long)f;
aint = (unsigned int)f;
ashort = (unsigned short)f;
if (along != (unsigned long)-123)
 result |= 1;
if (aint != (unsigned int)-123)
 result |= 1;
if (ashort != (unsigned short)-123)
 result |= 1;
sprintf(str, "1073741824.");
sscanf(str, "%lf", &f); /* f = (double)0x40000000; */
f = f + f;
along = 0;
along = (unsigned long)f;
if (along != 0x80000000)
 result |= 2;
f -= 1.;
along = 0;
along = (unsigned long)f;
if (along != 0x7fffffff)
 result |= 1;
f += 2.;
along = 0;
along = (unsigned long)f;
if (along != 0x80000001)
 result |= 2;
if (result)
 exit(result);
?X:
?X: The following is a test for Interactive Unix Version 4.1, which
?X: has an 'improved' compiler which can correctly cast negative
?X: floats in expression lists, but apparently not in argument lists.
?X: Contributed by Winfried Koenig
 <win@incom.rhein-main.de>
?X:
signal(SIGFPE, blech_in_list);
sprintf(str, "123.");
sscanf(str, "%lf", &f);  /* f = 123.; */
along = dummy_long((unsigned long)f);
aint = dummy_int((unsigned int)f);
ashort = dummy_short((unsigned short)f);
if (along != (unsigned long)123)
 result |= 4;
if (aint != (unsigned int)123)
 result |= 4;
if (ashort != (unsigned short)123)
```

```
  result |= 4;
 exit(result);

}
EOCP
set try
if eval $compile_ok; then
 $run ./try 2>/dev/null
 castflags=$?
else
 echo "(I can't seem to compile the test program--assuming it can't)"
 castflags=7
fi
case "$castflags" in
0) val="$define"
 echo "Yup, it can."
 ;;
*) val="$undef"
 echo "Nope, it can't."
 ;;
esac
set d_castneg
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_castneg.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_gconvert.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:33:38  ram
?RCS: patch61: integrated new unit from perl5
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  13:55:59  ram
?RCS: patch56: improved comments about the Gconvert macro (ADO)
```

```
?RCS: patch56: force compile-link test since it may exist but be unusable (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:12:51  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_Gconvert:
 cat cc ccflags ldflags libs rm_try _o
?MAKE: -pick add $@ %<
?S:d_Gconvert:
?S: This variable holds what Gconvert is defined as to convert
?S: floating point numbers into strings. It could be 'gconvert'
?S: or a more complex macro emulating gconvert with gcvt() or sprintf.
?S:.
?C:Gconvert:
?C: This preprocessor macro is defined to convert a floating point
?C: number to a string without a trailing decimal point.  This
?C: emulates the behavior of sprintf("%g"), but is sometimes much more
?C: efficient.  If gconvert() is not available, but gcvt() drops the
?C: trailing decimal point, then gcvt() is used.  If all else fails,
?C: a macro using sprintf("%g") is used. Arguments for the Gconvert
?C: macro are: value, number of digits, whether trailing zeros should
?C: be retained, and the output buffer.
?C: Possible values are:
?C:  d_Gconvert='gconvert((x),(n),(t),(b))'
?C:  d_Gconvert='gcvt((x),(n),(b))'
?C:  d_Gconvert='sprintf((b),"%.*g",(n),(x))'
?C: The last two assume trailing zeros should
 not be kept.
?C:.
?H:#define Gconvert(x,n,t,b) $d_Gconvert
?H:.
?T: xxx_list xxx_convert
?F:!try
?X:
: Check how to convert floats to strings.
echo " "
echo "Checking for an efficient way to convert floats to strings."
?X: We want to be sure to drop trailing decimal points (perl5
?X: needs this).
$cat >try.c <<'EOP'
#ifdef TRY_gconvert
#define Gconvert(x,n,t,b) gconvert((x),(n),(t),(b))
char *myname = "gconvert";
#endif
#ifdef TRY_gcvt
#define Gconvert(x,n,t,b) gcvt((x),(n),(b))
char *myname = "gcvt";
#endif
```

```
#ifdef TRY_sprintf
#define Gconvert(x,n,t,b) sprintf((b),"%.*g",(n),(x))
char *myname = "sprintf";
#endif

#include <stdio.h>

int
checkit(expect, got)
char *expect;
char *got;
{
   if (strcmp(expect, got)) {
  printf("%s oddity:  Expected %s, got %s\n",
   myname, expect, got);
  exit(1);
 }
}

int
int main()
{
 char buf[64];
 buf[63] = '\0';

 /* This must be 1st test on (which?) platform */
 /* Alan Burlison <AlanBurlsin@unn.unisys.com> */
 Gconvert(0.1, 8, 0, buf);
 checkit("0.1",
 buf);

 Gconvert(1.0, 8, 0, buf);
 checkit("1", buf);

 Gconvert(0.0, 8, 0, buf);
 checkit("0", buf);

 Gconvert(-1.0, 8, 0, buf);
 checkit("-1", buf);

 /* Some Linux gcvt's give 1.e+5 here. */
 Gconvert(100000.0, 8, 0, buf);
 checkit("100000", buf);

 /* Some Linux gcvt's give -1.e+5 here. */
 Gconvert(-100000.0, 8, 0, buf);
 checkit("-100000", buf);
```

```
 exit(0);
}
EOP
?X: List of order in which to search for functions.
?X: Usual order of efficiency is gconvert gcvt sprintf
?X: Respect a previous or hinted value.
case "$d_Gconvert" in
gconvert*) xxx_list='gconvert gcvt sprintf' ;;
gcvt*) xxx_list='gcvt gconvert sprintf' ;;
sprintf*) xxx_list='sprintf gconvert gcvt' ;;
*) xxx_list='gconvert gcvt sprintf' ;;
esac

for xxx_convert in $xxx_list; do
 echo "Trying $xxx_convert"
 $rm_try
 if $cc $ccflags -DTRY_$xxx_convert $ldflags -o try \
  try.c $libs > /dev/null 2>&1 ; then
  echo "$xxx_convert" found. >&4
  if ./try; then
   echo "I'll use $xxx_convert to convert floats
 into a string." >&4
   break;
  else
   echo "...But $xxx_convert didn't work as I expected."
  fi
 else
  echo "$xxx_convert NOT found." >&4
 fi
done

case "$xxx_convert" in
gconvert) d_Gconvert='gconvert((x),(n),(t),(b))' ;;
gcvt) d_Gconvert='gcvt((x),(n),(b))' ;;
*) d_Gconvert='sprintf((b),"%.*g",(n),(x))' ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_gconvert.U
No license file was found, but licenses were detected in source scan.

Perl5 Metaconfig Units

Copyright (c) 1996-1998, Andy Dougherty
Copyright (c) 1999-2011, H.Merijn Brand
All rights reserved.

These units are the ones I used to build Configure and config_h.SH
in the Perl5 distribution.

The Configure script and config_h.SH file in the Perl distribution are
generated by a program called metaconfig. To run metaconfig, you will
need the full dist 3.0 distribution, maintained by Raphael Manfredi.
As of this writing, the current version is dist3.0, patchlevel 70.
Dist version dist-3.0@70.tar.gz is available on CPAN (the Comprehensive
Perl Archive Network) as
<http://www.perl.com/perl/CPAN/authors/id/RAM/dist-3.0@70.tar.gz>.

Instructions:

1. Unpack the full perl5 sources. Execute the following command

 chmod +w Configure config_h.SH Porting/Glossary Porting/config*

2. Unpack the archive containing this file in the perl5 source
   directory. This will create a directory
 'U' under the perl5
   sources. That directory will contain the metaconfig units for perl5.
   This will also create two files in the perl5 source tree:
   MANIFEST.new and .package.

3. Apply any patches to perl in the perl_patches/ directory.
   (This may well be empty.)

4. Obtain and install dist-3.0pl70.

4. Apply any patches to dist under the dist_patches subdirectory.

5. From your main perl5 source directory, run packinit to
   regenerate the .package file. IMPORTANT: Change the name and
   address of the maintainer to your own name and address. I don't
   want bug reports intended for you coming to me.

6. From your main perl5 source directory, run

 metalint (or mlint)

   and repair every failure it reports.

7. From your main perl5 source directory, run

 metaconfig -m (or mconfig -m)

8. Edit U/mkglossary and/or U/mkgloss.pl to point to your dist-3.0pl70
   location. (See comments at the top.)

9. Run the Porting/mksample script to update the contents
of the Porting/
subdirectory, or run all parts by hand. (see README)

NB: this script used to be U/mksample replaced by Porting/mksample;
see Porting/pumpkin.pod instead for current documentation on its
use.

10. Let me know about any changes, corrections, or enhancements.

Things to watch out for:

1. Future support of better random number generators should probably
start with the randfunc.U unit included here. It's currently
broken, but well commented and probably a good place to start.

Descriptions:

The units and other related files have been broken up into the following
directories:

acl/
This is an old patch to begin to detect and use ACL (access
control list) file protection schemes.

compline/
These are similar to the standard units, but I have modified them
to have a more uniform compile command line, usually using the new
Compile.U unit. I have submitted these for inclusion into the
regular dist distribution. (The ccflags.U
unit is actually
perl-specific since it mentions -DDEBUGGING and -DPOSIX_SOURCE,
but that's the only place it is perl-specific.)

dist_patches/
These are patches to dist that must be applied before it is built
and installed. I have submitted these for inclusion in the
regular dist distribution.

modified/
These are modified versions of the standard units. Also included in
this directory are new units that are clearly derived from existing
units. I have submitted these for inclusion in the regular dist
distribution.

perl/
These are specific to perl. Some are heavily derived from

original dist units, and are marked as such. Others are original.

perl_patches/
These are patches to the perl source. This directory should ordinarily be empty, but there may have been drift between the standard version of perl and the one associated with these units.

protos/
These are units modified to use the new Hasproto.U or Protochk.U units to check for prototypes. I have submitted these for inclusion into the regular dist distribution.

target/
This is the very, very beginning of cross-compiler support. It doesn't work yet, and many standard units will need modification.

typedefs/
These are standard units modified to use the modified Typedef.U unit to check for typedefs. (The modified Typdef.U includes a function to avoid unnecessary prompts if the typdef being searched for exists.) I have submitted these for inclusion into the regular dist distribution.

threads/
These are specific to threading perl.

Copyright Information:

Unless otherwise indicated, the files contained in this distribution are:

Copyright (c) 1996-1998, Andy Dougherty

The following licensing terms apply to all files contained in this distribution:

You may distribute the files contained in this distribution under the terms of either

a) the "Artistic License" which comes with Perl,
or

b) the "Artistic License" which comes with dist, or

c) the GNU General Public License as published by the Free Software Foundation; either version 1, or (at your option) any

later version (see the file "Copying" that comes with the
Perl distribution).

Which one to use is your choice.

The units in the "modified" directory have been derived from units
associated with the metaconfig program of Raphael Manfredi's "dist"
distribution. These units list Raphael Manfredi as the Copyright holder.
dist is distributed under a modified version of the Perl Artistic License.
Clause 7 of this modified license as contained in dist-3.0-pl60 provides:

7. You may reuse parts of this Package in your own programs, provided
that you explicitly state where you got them from, in the source code
(and, left to your courtesy, in the documentation), duplicating
all the associated copyright notices and disclaimers. Besides
your changes, if any, must be clearly marked
as such. Parts reused
that way will no longer fall under this license if, and only if,
the name of your program(s) have no immediate connection with the
name of the Package itself or its associated programs. You may then
apply whatever restrictions you wish on the reused parts or choose
to place them in the Public Domain--this will apply only within the
context of your package.

In accordance with this clause, the versions of these units
contained here are made available under the same terms as the
rest of the units.

If you have any questions about the use of these units or about
the differences between these units and the standard versions, please
feel free to ask.

Andy Dougherty doughera@lafayette.edu
Dept. of Physics
Lafayette College
Easton, PA 18042-1782

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/README.dist
No license file was found, but licenses were detected in source scan.

?RCS: $Id: i_unistd.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_unistd.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_unistd: Inhdr
?MAKE: -pick add $@ %<
?S:i_unistd:
?S: This variable conditionally defines the I_UNISTD symbol, and indicates
?S: whether a C program should include <unistd.h>.
?S:.
?C:I_UNISTD:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <unistd.h>.
?C:.
?H:#$i_unistd I_UNISTD  /**/
?H:.
?LINT:set
 i_unistd
: see if this is a unistd.h system
set unistd.h i_unistd
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_unistd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS:
?X:
```

```
?X: This unit is just a quick shorthand for the compile command
?X: to be used in all the other metaconfig units.
?X:
?MAKE:Compile: +cc +optimize +ccflags +ldflags +libs
?MAKE: -pick add $@ %<
?LINT:define compile compile_ok
?V:compile compile_ok mc_file
?S:compile:
?S: This shell variable is used internally
 by Configure to provide
?S: a convenient shorthand for the typical compile command, namely
?S: $cc $optimize $ccflags $ldflags -o $1 $1.c $libs > /dev/null 2>&1
?S: Note that the output filename does _not_ include the _exe
?S: extension.  Instead we assume that the linker will be
?S: "helpful" and automatically appending the correct suffix.
?S: OS/2 users will apparently need to supply the -Zexe flag to
?S: get this behavior.
?S:
?S: To use this variable, say something like:
?S:  echo 'int main() { exit(0); }' > try.c
?S:  set try
?S:  if eval $compile; then
?S:   echo "success"   # and do whatever . . .
?S:  else
?S:   echo "failure"   # and do whatever . . .
?S:  fi
?S: To add extra flags cc flags (e.g. -DWHATEVER) just put them
?S: in $*, e.g.
?S:  set try -DTRY_THIS_FLAG
?S:.
?S:compile_ok:
?S: This shell variable is used internally by Configure to provide
?S: a convenient shorthand for the typical compile command that you
?S: expect to work ok.  It is the same as $compile,
 except we
?S: deliberately let the user see any error messages.
?S:.
: define a shorthand compile call
compile='
mc_file=$1;
shift;
$cc -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs > /dev/null 2>&1;'
: define a shorthand compile call for compilations that should be ok.
compile_ok='
mc_file=$1;
shift;
$cc -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs;'
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Compile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strdup.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strdup.U,v $
?RCS: Revision 3.0.1.1  1993/12/15  08:21:41  ram
?RCS: patch15: created
?RCS:
?MAKE:d_strdup: Inlibc
?MAKE: -pick add $@ %<
?S:d_strdup:
?S: This variable conditionally defines HAS_STRDUP if strdup() is
?S: available to duplicate strings in memory.
?S:.
?C:HAS_STRDUP:
?C: This symbol, if defined, indicates that the strdup routine is
?C: available to duplicate strings in memory. Otherwise, roll up
?C: your own...
?C:.
?H:#$d_strdup HAS_STRDUP  /**/
?H:.
?LINT:set
 d_strdup
: see if strdup exists
set strdup d_strdup
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strdup.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Inlibc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Inlibc.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  15:55:08  ram
?RCS: patch36: call ./whoa explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit checks for the definition of a given function.
?X:
?X: To use it, say:
?X: set function d_func
?X: eval $inlibc
?X:
?MAKE:Inlibc: Csym Whoa Oldconfig
?MAKE: -pick add $@ %<
?LINT:define inlibc
?V:inlibc
?S:inlibc:
?S: This
 shell variable is used internally by Configure to check
?S: wether a given function is defined or not. A typical use is:
?S:  set function d_func
?S:  eval $inlibc
?S: That will print a message, saying wether function was found or
?S: not and set d_func accordingly.
?S:.
?T:was tx sym tres td tu var
: define an is-in-libc? function
inlibc='echo " "; td=$define; tu=$undef;
sym=$1; var=$2; eval "was=\$$2";
tx=yes;
case "$reuseval$was" in
true) ;;
true*) tx=no;;
esac;
case "$tx" in
yes)
 set $sym tres -f;
 eval $csym;
 case "$tres" in
 true)
  echo "$sym() found." >&4;
```

```
  case "$was" in $undef) . ./whoa; esac; eval "$var=\$td";;
 *)
  echo "$sym() NOT found." >&4;
  case "$was" in $define) . ./whoa; esac; eval "$var=\$tu";;
 esac;;
*)
 case "$was" in
 $define) echo "$sym() found." >&4;;
 *) echo "$sym() NOT found." >&4;;
 esac;;
esac'
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Inlibc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_readdir_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_readdir_r readdir_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_dirent extern_C
?MAKE: -pick add $@ %<
?S:d_readdir_r:
?S: This variable conditionally defines the HAS_READDIR_R symbol,
?S: which indicates to the C program that the readdir_r()
?S: routine is available.
?S:.
?S:readdir_r_proto:
?S: This variable encodes the prototype of readdir_r.
?S: It is zero if d_readdir_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_readdir_r
?S: is defined.
?S:.
?C:HAS_READDIR_R:
?C: This symbol, if defined, indicates that the readdir_r routine
?C: is available to readdir re-entrantly.
?C:.
?C:READDIR_R_PROTO:
?C: This
 symbol encodes the prototype of readdir_r.
?C: It is zero if d_readdir_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_readdir_r
```

```
?C: is defined.
?C:.
?H:#$d_readdir_r HAS_READDIR_R /**/
?H:#define READDIR_R_PROTO $readdir_r_proto /**/
?H:.
?T:try hdrs d_readdir_r_proto
: see if readdir_r exists
set readdir_r d_readdir_r
eval $inlibc
case "$d_readdir_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_dirent dirent.h"
 case "$d_readdir_r_proto:$usethreads" in
 ":define") d_readdir_r_proto=define
  set d_readdir_r_proto readdir_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_readdir_r_proto" in
 define)
 case "$readdir_r_proto" in
 "|0) try='int readdir_r(DIR*, struct dirent*, struct dirent**);'
 ./protochk "$extern_C $try" $hdrs && readdir_r_proto=I_TSR ;;
 esac
 case "$readdir_r_proto" in
 "|0) try='int readdir_r(DIR*, struct dirent*);'
 ./protochk "$extern_C $try" $hdrs && readdir_r_proto=I_TS
 ;;
 esac
 case "$readdir_r_proto" in
 "|0) d_readdir_r=undef
  readdir_r_proto=0
  echo "Disabling readdir_r, cannot determine prototype." >&4 ;;
 * ) case "$readdir_r_proto" in
  REENTRANT_PROTO*) ;;
  *) readdir_r_proto="REENTRANT_PROTO_$readdir_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "readdir_r has no prototype, not using it." >&4 ;;
  esac
  d_readdir_r=undef
  readdir_r_proto=0
  ;;
 esac
 ;;
```

```
*) readdir_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_readdir_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: cpp_trad.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cpp_stuff.U,v $
?MAKE:cpp_trad: cpp cat contains rm
?MAKE: -pick add $@ %<
?S:cpp_trad:
?S: This variable contains the program to run to get traditional C
?S: preprocessor semantics and not ISO C semantics: we want something
?S: that knows as little about C as possible to use as a more general
?S: purpose preprocessor.
?S:.
?F:!foo.c !foo.cpp
: how do we get traditional cpp semantics?
echo " "
echo "Checking to see how to get traditional cpp semantics..."
 >&4
$cat >foo.c <<'EOF'
#define A(x) x
#define B(y) y
A(a)B(b)
EOF
if $cpp foo.c >foo.cpp; $contains ab foo.cpp >/dev/null 2>&1; then
 echo "Plain '$cpp' works just fine."
 cpp_trad="$cpp"
elif $cpp -traditional foo.c >foo.cpp; \
 $contains ab foo.cpp >/dev/null 2>&1; then
 echo "We'll use '$cpp -traditional' to get proper semantics."
 cpp_trad="$cpp -traditional"
else
 echo "I don't know how to get traditional semantics with '$cpp'." >&4
 cpp_trad="$cpp"
```

```
fi
$rm -f foo.c foo.cpp
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/cpp_trad.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2009 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getnameinfo: Inlibc
?MAKE: -pick add $@ %<
?S:d_getnameinfo:
?S: This variable conditionally defines the HAS_GETNAMEINFO symbol,
?S: which indicates to the C program that the getnameinfo() function
?S: is available.
?S:.
?C:HAS_GETNAMEINFO:
?C: This symbol, if defined, indicates that the getnameinfo() function
?C: is available for use.
?C:.
?H:#$d_getnameinfo HAS_GETNAMEINFO  /**/
?H:.
?LINT:set d_getnameinfo
: see if getnameinfo exists
set getnameinfo d_getnameinfo
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_getnameinfo.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rename.C,v 3.0.1.1 1994/01/24 13:58:42 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
```

```
*
* $Log: rename.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:42  ram
* patch16: created
*
*/
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/lib/C/fake/rename.C
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X: This unit generates a $hasfield string that is used internally
?X: by Configure to check if this system has a field for a
?X: particular struct (of if this system has a particular struct!)
?X:
?X: To use it, say something like:
?X:  set d_statblocks stat st_blocks i_sysstat sys/stat.h
?X:  eval $hasfield
?X: Or, for more complicated sets of headers, do something like
?X: hdrs="$define sys/foo.h
?X:  $i_sysbar sys/bar.h
?X:  $i_syszot sys/zot.h
?X:  $i_zappa zappa.h"
?X: set d_statblocks stat st_blocks $hdrs
?X: eval $hasfield
?X:
?MAKE:Hasfield: Setvar rm_try test Compile
?MAKE: -pick add $@ %<
?T:varname struct field
?V:hasfield
: Define hasfield macro for Configure internal use
hasfield='varname=$1;
 struct=$2; field=$3; shift; shift; shift;
while $test $# -ge 2; do
 case "$1" in
 $define) echo "#include <$2>";;
 esac ;
   shift 2;
done > try.c;
echo "int main () { struct $struct foo; char* bar; bar = (char*)foo.$field; }" >> try.c;
```

```
set try;
if eval $compile; then
 val="$define";
else
 val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try'
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/Hasfield.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fsetpos.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_fsetpos.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  06:57:38  ram
?RCS: patch30: created
?RCS:
?MAKE:d_fsetpos: Inlibc
?MAKE: -pick add $@ %<
?S:d_fsetpos:
?S: This variable conditionally defines HAS_FSETPOS if fsetpos() is
?S: available to set the file position indicator.
?S:.
?C:HAS_FSETPOS:
?C: This symbol, if defined, indicates that the fsetpos routine is
?C: available to set the file position indicator, similar to fseek().
?C:.
?H:#$d_fsetpos
 HAS_FSETPOS /**/
?H:.
?LINT:set d_fsetpos
: see if fsetpos exists
set fsetpos d_fsetpos
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_fsetpos.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strerror.U,v $
?RCS: Revision 3.0.1.3  1994/05/13  15:20:27  ram
?RCS: patch27: now uses new macro support for cleaner Strerror def
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  14:58:26  ram
?RCS: patch23: renamed strerror into Strerror to protect name space (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:08:56  ram
?RCS: patch16: protected code looking for sys_errnolist[] with @if
?RCS: patch16: added default value for d_sysernlst
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:35  ram
?RCS: Baseline
 for dist 3.0 netwide release.
?RCS:
?MAKE:d_strerror d_syserrlst d_sysernlst d_strerrm: contains Csym Findhdr
?MAKE: -pick add $@ %<
?S:d_strerror:
?S: This variable conditionally defines HAS_STRERROR if strerror() is
?S: available to translate error numbers to strings.
?S:.
?S:d_syserrlst:
?S: This variable conditionally defines HAS_SYS_ERRLIST if sys_errlist[] is
?S: available to translate error numbers to strings.
?S:.
?S:d_sysernlst:
?S: This variable conditionally defines HAS_SYS_ERRNOLIST if sys_errnolist[]
?S: is available to translate error numbers to the symbolic name.
?S:.
?S:d_strerrm:
?S: This variable holds what Strerrr is defined as to translate an error
?S: code condition into an error message string. It could be 'strerror'
?S: or a more complex macro emulating strrror with sys_errlist[], or the
?S: "unknown" string when both strerror and sys_errlist are missing.
```

```
?S:.
?C:HAS_STRERROR (STRERROR):
?C: This symbol, if defined, indicates that the strerror routine is
?C: available
 to translate error numbers to strings. See the writeup
?C: of Strerror() in this file before you try to define your own.
?C:.
?C:HAS_SYS_ERRLIST (SYSERRLIST):
?C: This symbol, if defined, indicates that the sys_errlist array is
?C: available to translate error numbers to strings. The extern int
?C: sys_nerr gives the size of that table.
?C:.
?C:HAS_SYS_ERRNOLIST (SYSERRNOLIST):
?C: This symbol, if defined, indicates that the sys_errnolist array is
?C: available to translate an errno code into its symbolic name (e.g.
?C: ENOENT). The extern int sys_nerrno gives the size of that table.
?C:.
?C:Strerror:
?C: This preprocessor symbol is defined as a macro if strerror() is
?C: not available to translate error numbers to strings but sys_errlist[]
?C: array is there.
?C:.
?H:#$d_strerror HAS_STRERROR  /**/
?H:#$d_syserrlst HAS_SYS_ERRLIST /**/
?H:#$d_sysernlst HAS_SYS_ERRNOLIST /**/
?H:#define Strerror(e) $d_strerrm
?H:.
?D:d_sysernlst=''
?T:xxx val
: see if strerror and/or sys_errlist[]
 exist
echo " "
if set strerror val -f d_strerror; eval $csym; $val; then
 echo 'strerror() found.' >&4
 d_strerror="$define"
 d_strerrm='strerror(e)'
 if set sys_errlist val -a d_syserrlst; eval $csym; $val; then
  echo "(You also have sys_errlist[], so we could roll our own strerror.)"
  d_syserrlst="$define"
 else
 echo "(Since you don't have sys_errlist[], sterror() is welcome.)"
  d_syserrlst="$undef"
 fi
elif xxx=`./findhdr string.h`; test "$xxx" || xxx=`./findhdr strings.h`; \
 $contains '#[  ]*define.*strerror' "$xxx" >/dev/null 2>&1; then
 echo 'strerror() found in string header.' >&4
 d_strerror="$define"
 d_strerrm='strerror(e)'
```

```
 if set sys_errlist val -a d_syserrlst; eval $csym; $val; then
  echo "(Most probably, strerror() uses sys_errlist[] for descriptions.)"
  d_syserrlst="$define"
 else
  echo "(You don't appear to have any sys_errlist[], how can this be?)"
  d_syserrlst="$undef"
 fi
elif set sys_errlist val -a d_syserrlst; eval $csym; $val; then
echo "strerror()
 not found, but you have sys_errlist[] so we'll use that." >&4
 d_strerror="$undef"
 d_syserrlst="$define"
 d_strerrm='((e)<0||(e)>=sys_nerr?"unknown":sys_errlist[e])'
else
 echo 'strerror() and sys_errlist[] NOT found.' >&4
 d_strerror="$undef"
 d_syserrlst="$undef"
 d_strerrm='"unknown"'
fi
@if d_sysernlst || HAS_SYS_ERRNOLIST
if set sys_errnolist val -a d_sysernlst; eval $csym; $val; then
 echo "(Symbolic error codes can be fetched via the sys_errnolist[] array.)"
 d_sysernlst="$define"
else
 echo "(However, I can't extract the symbolic error code out of errno.)"
 d_sysernlst="$undef"
fi
@end
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strerror.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_lchown.U,v 3.0.1.1 1994/08/29 16:07:14 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_lchown.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:14  ram
```

```
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_lchown: Compile Setvar cat echo i_unistd rm_try
?MAKE: -pick add $@ %<
?S:d_lchown:
?S: This variable conditionally defines the HAS_LCHOWN symbol, which
?S: indicates to the C program that the lchown() routine is available
?S: to operate on a symbolic link (instead of following
 the link).
?S:.
?C:HAS_LCHOWN :
?C: This symbol, if defined, indicates that the lchown routine is
?C: available to operate on a symbolic link (instead of following the
?C: link).
?C:.
?H:#$d_lchown HAS_LCHOWN  /**/
?H:.
?F:!try
?LINT:set d_lchown
: see if lchown exists
echo " "
?X: Some functions (such as lchown()) are present in libc, but are
?X: unimplemented.  That is, they always fail and set errno=ENOSYS.
?X:
?X: Thomas Bushnell provided the following sample code and the explanation
?X: that follows.
?X:
?X: The choice of <assert.h> is essentially arbitrary.  The GNU libc
?X: macros are found in <gnu/stubs.h>.  You can include that file instead
?X: of <assert.h> (which itself includes <gnu/stubs.h>) if you test for
?X: its existence first.  <assert.h> is assumed to exist on every system,
?X: which is why it's used here.  Any GNU libc header file will include
?X: the stubs macros.  If either __stub_NAME or __stub___NAME is defined,
?X: then the function doesn't actually exist.
  Tests using <assert.h> work
?X: on every system around.
?X:
?X: The declaration of FOO is there to override builtin prototypes for
?X: ANSI C functions.
?X:
?X:  I really ought to enhance the inlibc test to check for this, but
?X:  I don't have time now.  --A.D.  5/1998
?X:
?X: Unfortunately, this trick fails under clang++-7.  Apparently to
?X: cover both the stub issue and clang's requirements, we need to do
?X: a compile and run test. -- A.D. 8/2019
?X:
$cat > try.c <<EOCP
```

```
#include <pwd.h>
#include <stdio.h>
#include <stdlib.h>
#$i_unistd I_UNISTD
#ifdef I_UNISTD
#  include <unistd.h>
#endif
int main(int argc, char *argv[])
{
  if (lchown("./try.c", -1, getgid()) == -1) {
      exit(EXIT_FAILURE);
  }
  exit(EXIT_SUCCESS);
}
EOCP
set try
if eval $compile && ./try; then
   $echo "lchown() found." >&4
   val="$define"
else
   $echo "lchown() NOT found." >&4
   val="$undef"
fi
set d_lchown
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_lchown.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libc.U,v $
?RCS: Revision 3.0.1.10  1997/02/28  15:56:48  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: added support for HPUX-10 nm output
?RCS:
?RCS: Revision 3.0.1.9  1995/07/25  14:11:56  ram
```

```
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.8  1995/05/12  12:20:47  ram
?RCS: patch54: made sure only most recent version of shared lib is picked
?RCS: patch54: final "nm -p" check now uses xscan and xrun
 like everybody
?RCS: patch54: can now grok Linux nm output with lead __IO (ADO)
?RCS: patch54: added support for Linux ELF output, using 'W' for alias (ADO)
?RCS:
?RCS: Revision 3.0.1.7  1994/10/29  16:23:40  ram
?RCS: patch36: now looks for shared libraries before anything else (ADO)
?RCS: patch36: added new nm output format (ADO)
?RCS:
?RCS: Revision 3.0.1.6  1994/08/29  16:28:10  ram
?RCS: patch32: added I-type symbols for nm output parsing on Linux
?RCS:
?RCS: Revision 3.0.1.5  1994/06/20  07:03:24  ram
?RCS: patch30: checks are now presented by succession of if/elif
?RCS: patch30: uniformized checks for shared objects with new so symbol
?RCS:
?RCS: Revision 3.0.1.4  1994/05/06  15:06:33  ram
?RCS: patch23: added shared library knowledge (ADO and WED)
?RCS:
?RCS: Revision 3.0.1.3  1994/01/24  14:12:17  ram
?RCS: patch16: can now export nm_extract as an internal-use only variable
?RCS:
?RCS: Revision 3.0.1.2  1993/09/13  16:09:03  ram
?RCS: patch10: added special handling for Apollo
 systems (WAD)
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:40:03  ram
?RCS: patch7: added entry for /usr/shlib/libc.so (OSF/1 machines)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libc +nm_extract: echo n c rm test grep Getfile Myread Oldconfig Loc \
 sed libs incpath libpth ar runnm nm nm_opt nm_so_opt contains xlibpth \
 so _a _o osname trnl tr sort uniq sysroot
?MAKE: -pick add $@ %<
?S:libc:
?S: This variable contains the location of the C library.
?S:.
?S:nm_extract:
?S: This variable holds the name of the extraction command used to process
?S: the output of nm and yield the list of defined symbols. It is used
?S: internally by Configure.
?S:.
```

```
?T:thislib try libnames xxx xscan xrun thisname com tans file
?F:!libnames !libc.tmp !tmp.imp
?LINT:extern PASE
?LINT:extern libnames
?LINT:change nm_opt
?INIT:libnames=''
: Figure out where the libc is located
case "$runnm" in
true)
?X: indentation is wrong on purpose--RAM
:
 get list of predefined functions in a handy place
echo " "
case "$libc" in
'') libc=unknown
 case "$libs" in
 *-lc_s*) libc=`./loc libc_s$_a $libc $libpth`
 esac
 ;;
esac
case "$libs" in
'') ;;
*)  for thislib in $libs; do
 case "$thislib" in
 -lc|-lc_s)
  : Handle C library specially below.
  ;;
 -l*)
  thislib=`echo $thislib | $sed -e 's/^-l//'`
  if try=`./loc lib$thislib.$so.'*' X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib.$so X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib$_a X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc $thislib$_a X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc $thislib X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc Slib$thislib$_a X $xlibpth`; $test -f "$try"; then
   :
  else
   try=''
  fi
  libnames="$libnames $try"
  ;;
```

```
 *) libnames="$libnames $thislib" ;;
 esac
 done
 ;;
esac
?X:
?X: Some systems (e.g. DG/UX) use
 "environmental" links, which make the test
?X: -f fail. Ditto for symbolic links. So in order to reliably check the
?X: existence of a file, we use test -r. It will still fail with DG/UX links
?X: though, but at least it will detect symbolic links. At some strategic
?X: points, we make use of (test -h), using a sub-shell in case builtin test
?X: does not implement the -h check for symbolic links. This makes it
?X: possible to preset libc in a hint file for instance and have it show up
?X: as-is in the question.
?X:
xxx=normal
case "$libc" in
unknown)
?X:
?X: The sed below transforms .so.9 .so.12 into something like .so.0009 .so.0012,
?X: then sorts on it to allow keeping .so.12 instead of .so.9 as the latest
?X: up-to-date library. The initial filename (before sed munging, saved in hold
?X: space via 'h') is appended via 'G' before sorting, then the leading munged
?X: part is removed after sorting. Nice efficient work from Tye McQueen.
?X: The initial blurfl is here to prevent the trailing
 pipe from producing an
?X: empty string, causing Configure to output all its set variables!
?X:
 set /lib/libc.$so
 for xxx in $libpth; do
  $test -r $1 || set $xxx/libc.$so
  : The messy sed command sorts on library version numbers.
  $test -r $1 || \
   set `echo blurfl; echo $xxx/libc.$so.[0-9]* | \
   tr ' ' $trnl | egrep -v '\.[A-Za-z]*$' | $sed -e '
    h
    s/[0-9][0-9]*/0000&/g
    s/0*\([0-9][0-9][0-9][0-9][0-9]\)/\1/g
    G
    s/\n/ /' | \
    $sort | $sed -e 's/^.* //'`
  eval set \$$#
 done
 $test -r $1 || set $sysroot/usr/ccs/lib/libc.$so
 $test -r $1 || set $sysroot/lib/libsys_s$_a
 ;;
*)
```

```
?X: ensure the test below for the (shared) C library will fail
 set blurfl
 ;;
esac
if $test -r "$1"; then
 echo "Your (shared) C library seems to be in $1."
 libc="$1"
elif $test -r /lib/libc && $test -r /lib/clib; then
?X:
?X: Apollo has its C library in /lib/clib AND /lib/libc
?X: not to mention its math library in /lib/syslib...
?X:
 echo "Your C library seems to be in both /lib/clib
 and /lib/libc."
 xxx=apollo
 libc='/lib/clib /lib/libc'
 if $test -r /lib/syslib; then
  echo "(Your math library is in /lib/syslib.)"
?X: Put syslib in libc -- not quite right, but won't hurt
  libc="$libc /lib/syslib"
 fi
elif $test -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
 echo "Your C library seems to be in $libc, as you said before."
?X: For mips, and...
elif $test -r $incpath/usr/lib/libc$_a; then
 libc=$incpath/usr/lib/libc$_a;
 echo "Your C library seems to be in $libc.  That's fine."
elif $test -r /lib/libc$_a; then
 libc=/lib/libc$_a;
 echo "Your C library seems to be in $libc.  You're normal."
else
 if tans=`./loc libc$_a blurfl/dyick $libpth`; $test -r "$tans"; then
  :
 elif tans=`./loc libc blurfl/dyick $libpth`; $test -r "$tans"; then
  libnames="$libnames "`./loc clib blurfl/dyick $libpth`
 elif tans=`./loc clib blurfl/dyick $libpth`; $test -r "$tans"; then
  :
 elif tans=`./loc Slibc$_a blurfl/dyick $xlibpth`; $test -r "$tans"; then
  :
 elif tans=`./loc
 Mlibc$_a blurfl/dyick $xlibpth`; $test -r "$tans"; then
  :
 else
  tans=`./loc Llibc$_a blurfl/dyick $xlibpth`
 fi
 if $test -r "$tans"; then
  echo "Your C library seems to be in $tans, of all places."
  libc=$tans
```

```
 else
  libc='blurfl'
 fi
fi
if $test $xxx = apollo -o -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
 dflt="$libc"
 cat <<EOM

If the guess above is wrong (which it might be if you're using a strange
compiler, or your machine supports multiple models), you can override it here.

EOM
else
 dflt=''
 echo $libpth | $tr ' ' $trnl | $sort | $uniq > libpath
 cat >&4 <<EOM
I can't seem to find your C library.  I've looked in the following places:

EOM
 $sed 's/^/ /' libpath
 cat <<EOM

None of these seems to contain your C library. I need to get its name...

EOM
fi
fn=f
rp='Where is your C library?'
. ./getfile
libc="$ans"

echo " "
echo $libc $libnames | $tr ' ' $trnl | $sort | $uniq > libnames
set X `cat libnames`
shift
xxx=files
case $# in 1) xxx=file; esac
echo
 "Extracting names from the following $xxx for later perusal:" >&4
echo " "
$sed 's/^/ /' libnames >&4
echo " "
$echo $n "This may take a while...$c" >&4

?X:
?X: Linux may need the special Dynamic option to nm for shared libraries.
?X: In general, this is stored in the nm_so_opt variable.
?X: Unfortunately, that option may be fatal on non-shared libraries.
```

```
?X:
for file in $*; do
 case $file in
 *$so*) $nm $nm_so_opt $nm_opt $file 2>/dev/null;;
 *) $nm $nm_opt $file 2>/dev/null;;
 esac
done >libc.tmp

$echo $n ".$c"
?X:
?X: To accelerate processing, we look at the correct 'sed' command
?X: by using a small subset of libc.tmp, i.e. fprintf function.
?X: When we know which sed command to use, do the name extraction
?X:
$grep fprintf libc.tmp > libc.ptf
?X:
?X: In order to enhance readability and save some space, we define
?X: some variables that will be "eval"ed.
?X:
xscan='eval "<libc.ptf $com >libc.list"; $echo $n ".$c" >&4'
xrun='eval "<libc.tmp $com >libc.list"; echo "done." >&4'
?X:
 BSD-like output, I and W types added for Linux
?X: Some versions of Linux include a leading __IO in the symbol name.
?X: HP-UX 10 reportedly has trailing spaces, though I'm surprised it has
?X: BSD-like output.  (AD).
?X: GNU extension: i is "indirect function"
xxx='[ADTSIWi]'
if com="$sed -n -e 's/__IO//' -e 's/^.* $xxx  *//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: SYSV-like output
elif com="$sed -n -e 's/^__*//' -e 's/^\([a-zA-Z_0-9$]*\).*xtern.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e '/|UNDEF/d' -e '/FUNC..GL/s/^.*|__*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.* D __*//p' -e 's/^.* D //p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^_//' -e 's/^\([a-zA-Z_0-9]*\).*xtern.*text.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$'
```

```
 libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$grep '|' | $sed -n -e '/|COMMON/d' -e '/|DATA/d' \
    -e '/ file/d' -e 's/^\([^  ]*\).*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|//p' -e 's/^.*|FUNC |WEAK .*|//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: mips nm output (sysV)
elif com="$sed -n -e 's/^__//' -e '/|Undef/d' -e '/|Proc/s/ .*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|Proc .*|Text *| *//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e '/Def. Text/s/.* \([^ ]*\)\$/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: OS/2
 nm output
elif com="$sed -n -e 's/^[-0-9a-f ]*_\(.*\)=.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/.*\.text n\ \ \ \.//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: AIX nm output
elif com="sed -n -e 's/^__.*//' -e 's/[       ]*D[    ]*[0-9]*.*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
else
 $nm -p $* 2>/dev/null >libc.tmp
 $grep fprintf libc.tmp > libc.ptf
 if com="$sed -n -e 's/^.* [ADTSIW]  *_[_.]*//p' -e 's/^.* [ADTSIW] //p'";\
  eval $xscan; $contains '^fprintf$' libc.list >/dev/null 2>&1
```

```
then
 nm_opt='-p'
 eval $xrun
else
 echo " "
 echo "$nm didn't seem to work right. Trying $ar instead..." >&4
 com=''
 if $ar t $libc > libc.tmp && \
  $contains '^fprintf$' libc.tmp >/dev/null 2>&1
 then
  for thisname in $libnames $libc; do
   $ar t $thisname >>libc.tmp
  done
  $sed -e "s/\\$_o\$//" < libc.tmp > libc.list
  echo
"Ok." >&4
 elif test "X$osname" = "Xos2" && $ar tv $libc > libc.tmp; then
?X: Repeat libc to extract forwarders to DLL entries too
  for thisname in $libnames $libc; do
   $ar tv $thisname >>libc.tmp
?X: Revision 50 of EMX has bug in ar: it will not extract forwarders
?X: to DLL entries.  Use emximp which will extract exactly them.
   emximp -o tmp.imp $thisname \
       2>/dev/null && \
       $sed -e 's/^\([_a-zA-Z0-9]*\) .*$/\1/p' \
       < tmp.imp >>libc.tmp
   $rm -f tmp.imp
  done
  $sed -e "s/\\$_o\$//" -e 's/^ \+//' < libc.tmp > libc.list
  echo "Ok." >&4
 else
  echo "$ar didn't seem to work right." >&4
  echo "Maybe this is a Cray...trying bld instead..." >&4
  if  bld t $libc | \
   $sed -e 's/.*\///' -e "s/\\$_o:.*\$//" > libc.list &&
   $test -s libc.list
  then
   for thisname in $libnames; do
    bld t $libnames | \
    $sed -e 's/.*\///' -e "s/\\$_o:.*\$//" >>libc.list
    $ar t $thisname >>libc.tmp
   done
   echo "Ok." >&4
  else
   echo
"That didn't work either.  Giving up." >&4
   exit 1
  fi
```

```
  fi
 fi
fi
nm_extract="$com"
case "$PASE" in
define)
   echo " "
   echo "Since you are compiling for PASE, extracting more symbols from libc.a ...">&4
   dump -Tv /lib/libc.a | awk '$7 == "/unix" {print $5 " " $8}' | grep "^SV" | awk '{print $2}' >> libc.list
   ;;
*)  if $test -f /lib/syscalls.exp; then
 echo " "
 echo "Also extracting names from /lib/syscalls.exp for good ole AIX..." >&4
 $sed -n 's/^\([^  ]*\)[  ]*syscall[0-9]*[  ]*$/\1/p' \
  /lib/syscalls.exp >>libc.list
   fi
   ;;
esac
;;
esac
$rm -f libnames libpath
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/libc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sethent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_sethent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sethent: Inlibc
?MAKE: -pick add $@ %<
?S:d_sethent:
?S: This variable conditionally defines HAS_SETHOSTENT if sethostent() is
?S: available.
?S:.
?C:HAS_SETHOSTENT:
```

```
?C: This symbol, if defined, indicates that the sethostent() routine is
?C: available.
?C:.
?H:#$d_sethent HAS_SETHOSTENT  /**/
?H:.
?LINT:set d_sethent
: see if sethostent exists
set
 sethostent d_sethent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_sethent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Oldconfig.U,v $
?RCS: Revision 3.0.1.10  1997/02/28  15:06:39  ram
?RCS: patch61: added support for src.U
?RCS: patch61: new OSNAME define
?RCS: patch61: can now sense new OSes
?RCS:
?RCS: Revision 3.0.1.9  1995/07/25  13:40:51  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.8  1995/05/12  12:04:18  ram
?RCS: patch54: config.sh reload logic now knows about new -K switch
?RCS: patch54: cleaned up and extended osvers for DEC OSF/1 (ADO)
?RCS: patch54: added MachTen detection
 (ADO)
?RCS:
?RCS: Revision 3.0.1.7  1995/02/15  14:13:41  ram
?RCS: patch51: adapted osvers computation for AIX (ADO)
?RCS:
?RCS: Revision 3.0.1.6  1995/01/30  14:27:15  ram
?RCS: patch49: unit Options.U now exports file optdef.sh, not a variable
?RCS: patch49: update code for myuname changed (WED)
?RCS:
```

```
?RCS: Revision 3.0.1.5  1995/01/11  15:15:36  ram
?RCS: patch45: added quotes around the INITPROG variable (ADO)
?RCS: patch45: allows variable overriding after config file loading
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  15:57:05  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: merged with the version used for perl5's Configure (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/05/06  14:24:17  ram
?RCS: patch23: added support for osf1 hints
?RCS: patch23: new support for solaris and i386 systems (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:05:02  ram
?RCS: patch16: added post-processing on myuname for Xenix targets
?RCS: patch16: message proposing config.sh
 defaults made consistent
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  15:56:32  ram
?RCS: patch10: force use of config.sh when -d option is used (WAD)
?RCS: patch10: complain about non-existent hint files (WAD)
?RCS: patch10: added Options dependency for fastread variable
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:12  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit tries to remember what we did last time we ran Configure, mostly
?X: for the sake of setting defaults.
?X:
?MAKE:Oldconfig hint myuname osname osvers: Instruct Myread Checkcc \
 Mksymlinks Loc Options Tr src trnl ln uname sh awk sed test cat grep \
 rm lns tr n c contains targetarch
?MAKE: -pick wipe $@ %<
?S:myuname:
?S: The output of 'uname -a' if available, otherwise the hostname. On Xenix,
?S: pseudo variables assignments in the output are stripped, thank you. The
?S: whole thing is then lower-cased.
?S:.
?S:hint:
?S: Gives the type of hints used for previous answers. May be one of
?S: "default",
 "recommended" or "previous".
?S:.
?S:osname:
?S: This variable contains the operating system name (e.g. sunos,
?S: solaris, hpux, etc.).  It can be useful later on for setting
?S: defaults.  Any spaces are replaced with underscores.  It is set
?S: to a null string if we can't figure it out.
```

```
?S:.
?S:osvers:
?S: This variable contains the operating system version (e.g.
?S: 4.1.3, 5.2, etc.).  It is primarily used for helping select
?S: an appropriate hints file, but might be useful elsewhere for
?S: setting defaults.  It is set to '' if we can't figure it out.
?S: We try to be flexible about how much of the version number
?S: to keep, e.g. if 4.1.1, 4.1.2, and 4.1.3 are essentially the
?S: same for this package, hints files might just be os_4.0 or
?S: os_4.1, etc., not keeping separate files for each little release.
?S:.
?C:OSNAME:
?C: This symbol contains the name of the operating system, as determined
?C: by Configure.  You shouldn't rely on it too much; the specific
?C: feature
 tests from Configure are generally more reliable.
?C:.
?C:OSVERS:
?C: This symbol contains the version of the operating system, as determined
?C: by Configure.  You shouldn't rely on it too much; the specific
?C: feature tests from Configure are generally more reliable.
?C:.
?H:#define OSNAME "$osname"  /**/
?H:#define OSVERS "$osvers"  /**/
?H:.
?F:!config.sh
?T:tmp tmp_n tmp_c tmp_sh file
?T:xxxxfile xxxfile xxfile xfile hintfile newmyuname
?T:tans _ isesix INITPROG DJGPP has_uname
?D:osname=''
?LINT:change n c sh
?LINT:extern hostarch
?LINT:change hostarch
: Determine the name of the machine
myuname=`$uname -a 2>/dev/null`
$test -z "$myuname" && myuname=`hostname 2>/dev/null`
?X: Special mention for Xenix, whose 'uname -a' gives us output like this:
?X:  sysname=XENIX
?X:  nodename=whatever
?X:  release=2.3.2 .. etc...
?X: Therefore, we strip all this variable assignment junk and remove all the
?X: new lines to keep the myuname variable sane... --RAM
myuname=`echo $myuname | $sed -e
 's/^[^=]*=//' -e 's/\//g' | \
 ./tr '[A-Z]' '[a-z]' | $tr $trnl ' '`
?X: Save the value we just computed to reset myuname after we get done here.
newmyuname="$myuname"
$test -f "$uname$_exe" && has_uname=y
```

```
: Guessing of the OS name -- half the following guesses are probably wrong...
: If you have better tests or hints, please send them to the metaconfig
: authors and to <MAINTLOC>
$test -f /irix && osname=irix
$test -f /xenix && osname=sco_xenix
$test -f /dynix && osname=dynix
$test -f /dnix && osname=dnix
$test -f /lynx.os && osname=lynxos
$test -f /unicos && osname=unicos && osvers=`$uname -r`
$test -f /unicosmk && osname=unicosmk && osvers=`$uname -r`
$test -f /unicosmk.ar && osname=unicosmk && osvers=`$uname -r`
$test -f /bin/mips && /bin/mips && osname=mips
$test -d /NextApps && set X `hostinfo | $grep 'NeXT Mach.*:' | \
 $sed -e 's/://' -e 's/\./_/'` && osname=next && osvers=$4
$test -d /usr/apollo/bin && osname=apollo
$test -f /etc/saf/_sactab && osname=svr4
$test -d /usr/include/minix
 && osname=minix
$test -f /system/gnu_library/bin/ar.pm && osname=vos
if $test -d /MachTen -o -d /MachTen_Folder; then
?X:  MachTen uname -a output looks like
?X:  xxx 4 0.0 Macintosh
?X:  MachTen /sbin/version output looks like
?X:  MachTen 4.0 Mon Aug 28 10:18:00 1995
?X:  MachTen 3.x had the 'version' command in /usr/etc/version.
 osname=machten
 if $test -x /sbin/version; then
  osvers=`/sbin/version | $awk '{print $2}' |
  $sed -e 's/[A-Za-z]$//'`
 elif $test -x /usr/etc/version; then
  osvers=`/usr/etc/version | $awk '{print $2}' |
  $sed -e 's/[A-Za-z]$//'`
 else
  osvers="$2.$3"
 fi
fi
$test -f /sys/posix.dll &&
 $test -f /usr/bin/what &&
 set X `/usr/bin/what /sys/posix.dll` &&
 $test "$3" = UWIN &&
 osname=uwin &&
 osvers="$5"
?X: If we have uname, we already computed a suitable uname -a output, correctly
?X: formatted for Xenix, and it lies in $myuname.
if $test "X$has_uname" != X; then
 set X $myuname
 shift
```

```
 case "$5" in
 fps*) osname=fps ;;
 mips*)
  case "$4"
 in
  umips) osname=umips ;;
  *) osname=mips ;;
  esac;;
 [23]100) osname=mips ;;
 next*) osname=next ;;
?X: Interactive Unix.
 i386*)
  tmp=`/bin/uname -X 2>/dev/null|awk '/3\.2v[45]/{ print $(NF) }'`
  if $test "$tmp" != "" -a "$3" = "3.2" -a -f '/etc/systemid'; then
   osname='sco'
   osvers=$tmp
  elif $test -f /etc/kconfig; then
   osname=isc
   if $test "$lns" = "$ln -s"; then
    osvers=4
   elif $contains _SYSV3 /usr/include/stdio.h > /dev/null 2>&1 ; then
    osvers=3
   elif $contains _POSIX_SOURCE /usr/include/stdio.h > /dev/null 2>&1 ; then
    osvers=2
   fi
  fi
  tmp=''
  ;;
?X: MS-DOS djgpp uname -a output looks like:
?X: ms-dos xxx 6 22 pc
?X:  $1 is the "dos flavor" (need not be "ms-dos").
?X:  $2 is the node name
?X:  $3 and $4 are version/subversion
?X:  $5 is always "pc", but that might not be unique to DJGPP.
?X: (e.g. Solaris_x86 has $5 = i86pc, which doesn't actually conflict,
?X: but it's close enought that I can easily imagine other vendors also
?X: using variants
 of pc* in $5.)
?X:  The "DJGPP" environment variable is always set when djgpp is active.
 pc*)
  if $test -n "$DJGPP"; then
   osname=dos
   osvers=djgpp
  fi
  ;;
 esac
 case "$1" in
 aix) osname=aix
```

```
?X: aix 4.1 uname -a output looks like
?X:  AIX  foo  1 4 000123456789
?X: where $4 is the major release number and $3 is the (minor) version.
?X: More detail on the version is available with the oslevel command.
?X: in 3.2.x, it output a string (see case statements below).  In 4.1,
?X: it puts out something like  4.1.1.0
  tmp=`( (oslevel) 2>/dev/null || echo "not found") 2>&1`
  case "$tmp" in
  'not found') osvers="$4"."$3" ;;
  '<3240'|'<>3240') osvers=3.2.0 ;;
  '=3240'|'>3240'|'<3250'|'<>3250') osvers=3.2.4 ;;
  '=3250'|'>3250') osvers=3.2.5 ;;
  *) osvers=$tmp;;
  esac
  ;;
 bsd386) osname=bsd386
  osvers=`$uname -r`
  ;;
 cygwin*) osname=cygwin
  osvers="$3"
  ;;
 *dc.osx) osname=dcosx
  osvers="$3"
  ;;
 dnix) osname=dnix
  osvers="$3"
  ;;
 domainos) osname=apollo
  osvers="$3"
  ;;
 dgux)
 osname=dgux
  osvers="$3"
  ;;
?X:  uname -a returns
?X:  DYNIX/ptx xxx 4.0 V4.1.2 i386
 dynixptx*) osname=dynixptx
  osvers=`echo "$4"|sed 's/^v//'`
  ;;
 freebsd) osname=freebsd
  osvers="$3" ;;
 genix) osname=genix ;;
?X: HP-UX uname -a gives something like
?X: HP-UX foobar B.10.20 A 9000/735 2016483812 two-user license
?X: Preserve the full 10.20 string instead of the previous plain '10'.
?X:  Thanks to Graham Barr.    --AD 6/30/1998
 hp*) osname=hpux
  osvers=`echo "$3" | $sed 's,.*\.\([0-9]*\.[0-9]*\),\1,'`
```

```
 ;;
irix*) osname=irix
 case "$3" in
 4*) osvers=4 ;;
 5*) osvers=5 ;;
 *) osvers="$3" ;;
 esac
 ;;
linux) osname=linux
 case "$3" in
 *) osvers="$3" ;;
 esac
 ;;
MiNT) osname=mint
 ;;
netbsd*) osname=netbsd
 osvers="$3"
 ;;
news-os) osvers="$3"
 case "$3" in
 4*) osname=newsos4 ;;
 *) osname=newsos ;;
 esac
 ;;
next*) osname=next ;;
nonstop-ux) osname=nonstopux ;;
openbsd) osname=openbsd
   osvers="$3"
   ;;
POSIX-BC | posix-bc
) osname=posix-bc
 osvers="$3"
 ;;
powerux | power_ux | powermax_os | powermaxos | \
powerunix | power_unix) osname=powerux
 osvers="$3"
 ;;
qnx) osname=qnx
 osvers="$4"
 ;;
solaris) osname=solaris
 case "$3" in
 5*) osvers=`echo $3 | $sed 's/^5/2/g'` ;;
 *) osvers="$3" ;;
 esac
 ;;
sunos) osname=sunos
 case "$3" in
```

```
 5*) osname=solaris
  osvers=`echo $3 | $sed 's/^5/2/g'` ;;
 *) osvers="$3" ;;
 esac
 ;;
titanos) osname=titanos
 case "$3" in
 1*) osvers=1 ;;
 2*) osvers=2 ;;
 3*) osvers=3 ;;
 4*) osvers=4 ;;
 *) osvers="$3" ;;
 esac
 ;;
ultrix) osname=ultrix
 osvers="$3"
 ;;
osf1|mls+) case "$5" in
 alpha)
?X: DEC OSF/1 myuname -a output looks like:  osf1 xxxx t3.2 123.4 alpha
?X: where the version number can be something like [xvt]n.n
  osname=dec_osf
?X: sizer knows the minor minor version: the letter
  osvers=`sizer -v | awk '{print $3}' | \
   ./tr '[A-Z]' '[a-z]' | sed 's/^[xvt]//'`
  case "$osvers" in
  [1-9].[0-9]*) ;;
  *) osvers=`echo
"$3" | sed 's/^[xvt]//'` ;;
  esac
  ;;
 hp*) osname=hp_osf1 ;;
 mips) osname=mips_osf1 ;;
?X: hp and mips were unsupported Technology Releases -- ADO, 24/10/94
 esac
 ;;
unixware) osname=svr5
 osvers="$4"
 ;;
uts) osname=uts
 osvers="$3"
 ;;
vos) osvers="$3"
 ;;
$2) case "$osname" in
 *isc*) ;;
 *freebsd*) ;;
 svr*)
```

```
 : svr4.x or possibly later
 case "svr$3" in
 ${osname}*)
  osname=svr$3
  osvers=$4
  ;;
 esac
 case "$osname" in
 svr4.0)
  : Check for ESIX
  if $test -f /stand/boot ; then
   eval `$grep '^INITPROG=[a-z/0-9]*$' /stand/boot`
   if $test -n "$INITPROG" -a -f "$INITPROG"; then
    isesix=`strings -a $INITPROG | \
     $grep 'ESIX SYSTEM V/386 Release 4.0'`
    if $test -n "$isesix"; then
     osname=esix4
    fi
   fi
  fi
  ;;
 esac
 ;;
 *) if $test -f /etc/systemid; then
  osname=sco
  set `echo $3 | $sed 's/\./ /g'` $4
  if $test -f $src/hints/sco_$1_$2_$3.sh; then
   osvers=$1.$2.$3
  elif $test
-f $src/hints/sco_$1_$2.sh; then
   osvers=$1.$2
  elif $test -f $src/hints/sco_$1.sh; then
   osvers=$1
  fi
 else
  case "$osname" in
  ") : Still unknown.  Probably a generic Sys V.
   osname="sysv"
   osvers="$3"
   ;;
  esac
 fi
 ;;
esac
;;
*) case "$osname" in
") : Still unknown.  Probably a generic BSD.
 osname="$1"
```

```
   osvers="$3"
   ;;
  esac
  ;;
 esac
else
?X: Try to identify sony's NEWS-OS (BSD unix)
 if $test -f /vmunix -a -f $src/hints/news_os.sh; then
  (what /vmunix | UU/tr '[A-Z]' '[a-z]') > UU/kernel.what 2>&1
  if $contains news-os UU/kernel.what >/dev/null 2>&1; then
   osname=news_os
  fi
  $rm -f UU/kernel.what
?X: Maybe it's OS/2 or DOS or something similar
 elif $test -d c:/.; then
  set X $myuname
  osname=os2
  osvers="$5"
 fi
fi

: Try to determine whether config.sh was made on this system
case "$config_sh" in
")
?X: indentation wrong on purpose--RAM
dflt=n
case "$knowitall" in
")
 if test -f ../config.sh; then
  if $contains
 myuname= ../config.sh >/dev/null 2>&1; then
   eval "`$grep myuname= ../config.sh`"
  fi
  if test "X$myuname" = "X$newmyuname"; then
   dflt=y
  fi
 fi
 ;;
*) dflt=y;;
esac

: Get old answers from config file if it was generated on the same system
hint=default
if $test -f ../config.sh; then
 echo " "
 rp="I see a config.sh file.  Shall I use it to set the defaults?"
 . ./myread
 case "$ans" in
```

```
 n*|N*) echo "OK, I'll ignore it."
  mv ../config.sh ../config.sh.old
  myuname="$newmyuname"
  ;;
 *)  echo "Fetching default answers from your old config.sh file..." >&4
  tmp_n="$n"
  tmp_c="$c"
  tmp_sh="$sh"
  . ../config.sh
  cp ../config.sh .
  n="$tmp_n"
  c="$tmp_c"
  hint=previous
  ;;
 esac
fi
?X: remember, case indentation is wrong--RAM
;;
*)
 echo " "
 echo "Fetching default answers from $config_sh..." >&4
 tmp_n="$n"
 tmp_c="$c"
 tmp_sh="$sh"
 cd ..
?X: preserve symbolic links, if any
 cp $config_sh config.sh 2>/dev/null
 chmod +w config.sh
 . ./config.sh
 cd UU
 cp ../config.sh
 .
 n="$tmp_n"
 c="$tmp_c"
 hint=previous
 ;;
esac
?X: Older versions did not always set $sh.
case "$sh" in
") sh="$tmp_sh" ;;
esac
$test "$override" && . ./optdef.sh

: Restore computed paths
for file in $loclist $trylist; do
 eval $file="\$_$file"
done
```

```
. ./checkcc
?X: Cross-compiling support
case "$targetarch" in
") ;;
*)  hostarch=$osname
 osname=`echo $targetarch|sed 's,^[^-]*-,,'`
 osvers="
 ;;
esac

@if {test -d ../hints}
: Offer them some hints based on their OS
cd ..
?X: Since we are now at the root of the source tree, we must use $src
?X: to access the sources and not $rsrc. See src.U for details...
if $test ! -f config.sh; then
 $cat <<EOM

First time through, eh?  I have some defaults handy for some systems
that need some extra help getting the Configure answers right:

EOM
 (cd $src/hints; ls -C *.sh) | $sed 's/\.sh/   /g' >&4
 dflt="

 : Now look for a hint file osname_osvers, unless one has been
 : specified already.
 case "$hintfile" in
 "|' ')
  file=`echo "${osname}_${osvers}"
 | $sed -e 's%\.%_%g' -e 's%_$%%'`
  : Also try without trailing minor version numbers.
  xfile=`echo $file | $sed -e 's%_[^_]*$%%'`
  xxfile=`echo $xfile | $sed -e 's%_[^_]*$%%'`
  xxxfile=`echo $xxfile | $sed -e 's%_[^_]*$%%'`
  xxxxfile=`echo $xxxfile | $sed -e 's%_[^_]*$%%'`
  case "$file" in
  ") dflt=none ;;
  *)  case "$osvers" in
   ") dflt=$file
    ;;
   *)  if $test -f $src/hints/$file.sh ; then
     dflt=$file
    elif $test -f $src/hints/$xfile.sh ; then
     dflt=$xfile
    elif $test -f $src/hints/$xxfile.sh ; then
     dflt=$xxfile
    elif $test -f $src/hints/$xxxfile.sh ; then
```

```
    dflt=$xxxfile
   elif $test -f $src/hints/$xxxxfile.sh ; then
    dflt=$xxxxfile
   elif $test -f "$src/hints/${osname}.sh" ; then
    dflt="${osname}"
   else
    dflt=none
   fi
   ;;
  esac
  ;;
 esac
 if $test -f Policy.sh ; then
  case "$dflt" in
  *Policy*) ;;
  none) dflt="Policy" ;;
  *) dflt="Policy $dflt" ;;
  esac
 fi
 ;;
*)
 dflt=`echo
$hintfile | $sed 's/\.sh$//'`
 ;;
esac

if $test -f Policy.sh ; then
 $cat <<EOM

There's also a Policy hint file available, which should make the
site-specific (policy) questions easier to answer.
EOM

 fi

 $cat <<EOM

You may give one or more space-separated answers, or "none" if appropriate.
A well-behaved OS will have no hints, so answering "none" or just "Policy"
is a good thing.  DO NOT give a wrong version or a wrong OS.

EOM

 rp="Which of these apply, if any?"
 . UU/myread
 tans=$ans
 for file in $tans; do
  if $test X$file = XPolicy -a -f Policy.sh; then
```

```
  . Policy.sh
  $cat Policy.sh >> UU/config.sh
 elif $test -f $src/hints/$file.sh; then
  . $src/hints/$file.sh
  $cat $src/hints/$file.sh >> UU/config.sh
 elif $test X"$tans" = X -o X"$tans" = Xnone ; then
  : nothing
 else
  : Give one chance to correct a possible typo.
  echo "$file.sh does not exist"
  dflt=$file
  rp="hint to use instead?"
  . UU/myread
  for file in $ans; do
   if $test -f "$src/hints/$file.sh";
then
    . $src/hints/$file.sh
    $cat $src/hints/$file.sh >> UU/config.sh
   elif $test X$ans = X -o X$ans = Xnone ; then
    : nothing
   else
    echo "$file.sh does not exist -- ignored."
   fi
  done
 fi
done

hint=recommended
: Remember our hint file for later.
if $test -f "$src/hints/$file.sh" ; then
 hintfile="$file"
else
 hintfile=''
fi
fi
cd UU
?X: From here on, we must use $rsrc instead of $src

@end
: Process their -A options
. ./posthint.sh

@if osname || osvers
: Ask them to confirm the OS name
cat << EOM

Configure uses the operating system name and version to set some defaults.
The default value is probably right if the name rings a bell. Otherwise,
```

```
since spelling matters for me, either accept the default or answer "none"
to leave it blank.

EOM
@end
@if osname
case "$osname" in
 "|' ')
  case "$hintfile" in
  "|' '|none) dflt=none ;;
  *)  dflt=`echo $hintfile | $sed -e 's/\.sh$//' -e 's/_.*$//'` ;;
  esac
  ;;
 *) dflt="$osname" ;;
esac
rp="Operating
 system name?"
. ./myread
case "$ans" in
none)  osname=" ;;
*) osname=`echo "$ans" | $sed -e 's/[  ][ ]*/_/g' | ./tr '[A-Z]' '[a-z]'`;;
esac
@end
@if osvers
@if osname
echo " "
@end
case "$osvers" in
 "|' ')
  case "$hintfile" in
  "|' '|none) dflt=none ;;
  *) dflt=`echo $hintfile | $sed -e 's/\.sh$//' -e 's/^[^_]*//'`
   dflt=`echo $dflt | $sed -e 's/^_//' -e 's/_./g'`
   case "$dflt" in
   "|' ') dflt=none ;;
   esac
   ;;
  esac
  ;;
 *) dflt="$osvers" ;;
esac
rp="Operating system version?"
. ./myread
case "$ans" in
none)  osvers=" ;;
*) osvers="$ans" ;;
esac
```

@end

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Oldconfig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_socket.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:46:00  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:08:04  ram
?RCS: patch16: can now safely declare private nm_extract in dependencies
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_socket d_oldsock d_sockpair socketlib sockethdr: contains libc \
 echo n c nm_opt nm_extract Inlibc Csym _a
?MAKE: -pick add $@ %<
?S:d_socket:
?S: This
 variable conditionally defines HAS_SOCKET, which indicates
?S: that the BSD socket interface is supported.
?S:.
?S:d_sockpair:
?S: This variable conditionally defines the HAS_SOCKETPAIR symbol, which
?S: indicates that the BSD socketpair() is supported.
?S:.
?S:d_oldsock:
?S: This variable conditionally defines the OLDSOCKET symbol, which
?S: indicates that the BSD socket interface is based on 4.1c and not 4.2.
?S:.
?S:socketlib:
?S: This variable has the names of any libraries needed for socket support.
?S:.
?S:sockethdr:
?S: This variable has any cpp -I flags needed for socket support.
```

```
?S:.
?C:HAS_SOCKET (SOCKET):
?C: This symbol, if defined, indicates that the BSD socket interface is
?C: supported.
?C:.
?C:HAS_SOCKETPAIR (SOCKETPAIR):
?C: This symbol, if defined, indicates that the BSD socketpair() call is
?C: supported.
?C:.
?C:USE_OLDSOCKET (OLDSOCKET):
?C: This symbol, if defined, indicates that the 4.1c BSD socket interface
?C: is supported instead of the 4.2/4.3 BSD
 socket interface. For instance,
?C: there is no setsockopt() call.
?C:.
?H:#$d_socket HAS_SOCKET  /**/
?H:#$d_sockpair HAS_SOCKETPAIR /**/
?H:#$d_oldsock USE_OLDSOCKET /**/
?H:.
?T:val
?LINT:use libc
?LINT:set d_sockpair
: see whether socket exists
socketlib=''
sockethdr=''
echo " "
$echo $n "Hmm... $c" >&4
if set socket val -f d_socket; eval $csym; $val; then
 echo "Looks like you have Berkeley networking support." >&4
 d_socket="$define"
?X: now check for advanced features
 if set setsockopt val -f; eval $csym; $val; then
  d_oldsock="$undef"
 else
  echo "...but it uses the old 4.1c interface, rather than 4.2" >&4
  d_oldsock="$define"
 fi
else
?X: HP-UX, for one, puts all the socket stuff in socklib.o. Note that if we
?X: come here on HP-UX, then we must have used nm to get symbols, or we really
?X: don't have sockets anyway...
 if $contains socklib libc.list >/dev/null 2>&1; then
  echo "Looks like you have Berkeley networking support." >&4
  d_socket="$define"
  : we will have
 to assume that it supports the 4.2 BSD interface
  d_oldsock="$undef"
 else
```

```
  echo "You don't have Berkeley networking in libc$_a..." >&4
?X: look for an optional networking library
  if test -f /usr/lib/libnet$_a; then
?X: space between two  '(' needed for ksh
   ( (nm $nm_opt /usr/lib/libnet$_a | eval $nm_extract) ||  \
   ar t /usr/lib/libnet$_a) 2>/dev/null >> libc.list
   if $contains socket libc.list >/dev/null 2>&1; then
   echo "...but the Wollongong group seems to have hacked it in." >&4
    socketlib="-lnet"
    sockethdr="-I/usr/netinclude"
    d_socket="$define"
?X: now check for advanced features
    if $contains setsockopt libc.list >/dev/null 2>&1; then
     d_oldsock="$undef"
    else
     echo "...using the old 4.1c interface, rather than 4.2" >&4
     d_oldsock="$define"
    fi
   else
    echo "or even in libnet$_a, which is peculiar." >&4
    d_socket="$undef"
    d_oldsock="$undef"
   fi
  else
   echo "or anywhere else I see." >&4
   d_socket="$undef"
   d_oldsock="$undef"
  fi
 fi
fi

@if
 HAS_SOCKETPAIR || d_sockpair
: see if socketpair exists
set socketpair d_sockpair
eval $inlibc

@end
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_socket.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getopt.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getopt.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getopt: Inlibc
?MAKE: -pick add $@ %<
?S:d_getopt:
?S: This variable conditionally defines the HAS_GETOPT symbol, which
?S: indicates that the getopt() routine exists.  The getopt() routine
?S: parses command line options in a standard fashion.
?S:.
?C:HAS_GETOPT (GETOPT):
?C: This symbol, if defined, indicates that the getopt() routine
 exists.
?C:.
?H:#$d_getopt HAS_GETOPT  /**/
?H:.
?LINT:set d_getopt
: see if getopt exists
set getopt d_getopt
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getopt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sysman.U,v 3.0.1.2 1994/06/20 07:08:43 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sysman.U,v $
?RCS: Revision 3.0.1.2  1994/06/20  07:08:43  ram
?RCS: patch30: now explicitly states that /usr/man/man1 is the default
?RCS: patch30: added /usr/local/man/man1 to the search list
?RCS:
```

```
?RCS: Revision 3.0.1.1  1993/09/13  16:13:50  ram
?RCS: patch10: added support for /local/man/man1 (WAD)
?RCS: patch10: added temporary syspath variable to cut down on line length
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:55  ram
?RCS: Baseline for dist 3.0 netwide
 release.
?RCS:
?MAKE:sysman: test Loc Oldconfig
?MAKE: -pick add $@ %<
?S:sysman:
?S: This variable holds the place where the manual is located on this
?S: system. It is not the place where the user wants to put his manual
?S: pages. Rather it is the place where Configure may look to find manual
?S: for unix commands (section 1 of the manual usually). See mansrc.
?S:.
?T:syspath
: determine where manual pages are on this system
echo " "
case "$sysman" in
")
 syspath='/usr/share/man/man1 /usr/man/man1'
 syspath="$syspath /usr/man/mann /usr/man/manl /usr/man/local/man1"
 syspath="$syspath /usr/man/u_man/man1"
 syspath="$syspath /usr/catman/u_man/man1 /usr/man/l_man/man1"
 syspath="$syspath /usr/local/man/u_man/man1 /usr/local/man/l_man/man1"
 syspath="$syspath /usr/man/man.L /local/man/man1 /usr/local/man/man1"
 sysman=`./loc . /usr/man/man1 $syspath`
 ;;
esac
if $test -d "$sysman"; then
 echo "System manual is in $sysman." >&4
else
 echo "Could not find manual pages in source form."
 >&4
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/sysman.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
?MAKE:d_pthread_atfork: Inlibc cat Compile usethreads Setvar
?MAKE: -pick add $@ %<
?S:d_pthread_atfork:
?S: This variable conditionally defines the HAS_PTHREAD_ATFORK symbol,
?S: which indicates to the C program that the pthread_atfork()
?S: routine is available.
?S:.
?C:HAS_PTHREAD_ATFORK:
?C: This symbol, if defined, indicates that the pthread_atfork routine
?C: is available to setup fork handlers.
?C:.
?H:#$d_pthread_atfork HAS_PTHREAD_ATFORK  /**/
?H:.
?LINT:set d_pthread_atfork
: see whether the pthread_atfork exists
$cat >try.c <<EOP
#include <pthread.h>
#include <stdio.h>
int main() {
#ifdef  PTHREAD_ATFORK
	pthread_atfork(NULL,NULL,NULL);
#endif
}
EOP

: see if pthread_atfork exists
set
 try -DPTHREAD_ATFORK
if eval $compile; then
   val="$define"
else
   val="$undef"
fi
case "$usethreads" in
$define)
	case "$val" in
	$define) echo 'pthread_atfork found.' >&4	;;
	*)	echo 'pthread_atfork NOT found.' >&4	;;
	esac
esac
set d_pthread_atfork
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_pthread_atfork.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: startperl.U,v 3.0 1993/08/18 12:09:50 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: startperl.U,v $
?RCS: Perl5 version -- I always have d_portable=define.
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:startperl: cat Myread sharpbang initialinstalllocation test \
 versiononly version
?MAKE: -pick add $@ %<
?Y:TOP
?X: This is different from dist's standard startperl.U unit because
?X: we can't directly test #!/usr/local/bin/perl (or
 whatever) because
?X: we haven't built and installed perl yet.
?S:startperl:
?S: This variable contains the string to put on the front of a perl
?S: script to make sure (hopefully) that it runs with perl and not some
?S: shell. Of course, that leading line must be followed by the classical
?S: perl idiom:
?S:  eval 'exec perl -S $0 ${1+"$@"}'
?S:   if $running_under_some_shell;
?S: to guarantee perl startup should the shell execute the script. Note
?S: that this magic incantation is not understood by csh.
?S:.
?C:STARTPERL:
?C: This variable contains the string to put in front of a perl
?C: script to make sure (one hopes) that it runs with perl and not
?C: some shell.
?C:.
?H:#define STARTPERL "$startperl"  /**/
?H:.
: figure out how to guarantee perl startup
: XXX Note that this currently takes advantage of the bug that binexp ignores
:     the Configure -Dinstallprefix setting, which in turn means that under
:     relocatable @INC, initialinstalllocation is what binexp started as.
```

```
case
 "$startperl" in
")
 case "$sharpbang" in
 *!)
  $cat <<EOH

I can use the #! construct to start perl on your system. This will
make startup of perl scripts faster, but may cause problems if you
want to share those scripts and perl is not in a standard place
($initialinstalllocation/perl) on all your platforms. The alternative
is to force a shell by starting the script with a single ':' character.

EOH
  case "$versiononly" in
  "$define")      dflt="$initialinstalllocation/perl$version";;
  *)              dflt="$initialinstalllocation/perl";;
  esac
  rp='What shall I put after the #! to start up perl ("none" to not use #!)?'
  . ./myread
  case "$ans" in
  none) startperl=": # use perl";;
  *) startperl="#!$ans"
   if $test 30 -lt `echo "$ans" | wc -c`; then
    $cat >&4 <<EOM

WARNING:  Some systems limit the #! command to 32 characters.
If you experience difficulty running Perl scripts with #!, try
installing Perl in a directory with a shorter pathname.

EOM
   fi ;;
  esac
  ;;
 *)
 startperl=": # use perl"
  ;;
 esac
 ;;
esac
echo "I'll use $startperl to start perl scripts."
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/startperl.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_scannl.U,v 3.0.1.2 1997/02/28 15:41:27 ram Exp $

```
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_scannl.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:41:27  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  13:59:12  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:00  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Does the scanf routine read "\n" correctly ? This is was not
?X: the case on AIX...
?X:
?MAKE:d_scannl: cat rm Setvar Compile run
?MAKE: -pick
 add $@ %<
?S:d_scannl:
?S: This variable conditionally defines SCAN_NL, which indicates
?S: whether the C library routines scanf() and friends can deal with
?S: a '\n' in the input correctly. They do most of the time.
?S:.
?C:SCAN_NL:
?C: This symbol is defined if the C library routines scanf() and friends
?C: can deal with a '\n' in the input correctly, so that you can say
?C: scanf("%d\n"); instead of scanf("%d"); getc(c); to handle the '\n'.
?C:.
?H:#$d_scannl SCAN_NL  /* scanf("%d\n") works */
?H:.
?F:!try
?LINT:set d_scannl
: does scanf handle "\n" correctly ?
echo " "
val="$define"
?X: I really want to say "\n" instead of '\n', because I am referring
?X: to the string given as argument to scanf().
echo 'Let""""s see if scanf() handles "\\n" correctly...' >&4
$cat >try.c <<'EOCP'
int main()
```

```
{
 int i = 0, j = 0;
 scanf("%d\n%d", &i, &j);
 if (j != 3)
  exit(1);
 exit(0);
}
EOCP
set try
if eval $compile_ok; then
 if $run ./try <<'EOD'
2
3
EOD
 then
  echo "Yes, it does."
 else
  echo
 "No, it doesn't."
  val="$undef"
 fi
else
 echo "(I can't seem to compile the test program. Assuming it does.)"
fi
set d_scannl
eval $setvar
$rm -f try.* try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_scannl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2014-2014, Karl Williamson & H.Merijn Brand
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_wcscmp: Compile cat rm_try run Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_wcscmp:
?S: This variable conditionally defines the HAS_WCSCMP symbol if the
?S: wcscmp() routine is available and can be used to compare wide
?S: character strings.
?S:.
```

```
?C:HAS_WCSCMP:
?C: This symbol, if defined, indicates that the wcscmp routine is
?C: available to compare two wide character strings.
?C:.
?H:#$d_wcscmp HAS_WCSCMP /**/
?H:.
?F:!try
?LINT: set d_wcscmp
: look for wcscmp
echo " "
$cat >try.c <<'EOCP'
#include <stdio.h>
#include
 <wchar.h>
int main ()
{
   wchar_t *s = L" ";
   return (wcscmp (s, s) ? 1 : 0);
   }
EOCP
set try
?X: if $cc $ccflags $ldflags -o try try.c $libs >/dev/null 2>&1 ; then
val="$undef"
if eval $compile; then
   `$run ./try`
   case "$?" in
 0)  echo "A working wcscmp() found." >&4
     val="$define" ;;
 *)  echo "wcscmp() found, but it doesn't work" >&4
     ;;
 esac
else
   echo "wcscmp() NOT found." >&4
   fi
set d_wcscmp
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_wcscmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_tminsys.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_tminsys.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_tminsys: contains Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_tminsys:
?S: This variable conditionally defines TM_IN_SYS if this system
?S: declares "struct tm" in <sys/time.h> rather than <time.h>.
?S:.
?C:TM_IN_SYS (TMINSYS):
?C: This symbol is defined if this system declares "struct tm" in
?C: <sys/time.h> rather than <time.h>.
  We can't just say
?C: -I/usr/include/sys because some systems have both time files, and
?C: the -I trick gets the wrong one.
?C:.
?H:#$d_tminsys TM_IN_SYS  /**/
?H:.
?LINT:set d_tminsys
: see if struct tm is defined in sys/time.h
echo " "
if $contains 'struct tm' `./findhdr time.h` >/dev/null 2>&1 ; then
 echo "You have struct tm defined in <time.h> rather than <sys/time.h>." >&4
 val="$undef"
else
 echo "You have struct tm defined in <sys/time.h> rather than <time.h>." >&4
 val="$define"
fi
set d_tminsys
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_tminsys.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
?MAKE:d_fpos64_t: \
 Inlibc Setvar Compile rm_try cat fpossize
?MAKE: -pick add $@ %<
?S:d_fpos64_t:
?S: This symbol will be defined if the C compiler supports fpos64_t.
?S:.
?C:HAS_FPOS64_T:
?C: This symbol will be defined if the C compiler supports fpos64_t.
?C:.
?H:#$d_fpos64_t HAS_FPOS64_T /**/
?H:.
?LINT:set d_fpos64_t
: check for fpos64_t
echo " "
echo "Checking to see if you have fpos64_t..." >&4
$cat >try.c <<EOCP
#include <stdio.h>
int main() { fpos64_t x = 7; }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have fpos64_t."
else
 val="$undef"
 echo "You do not have fpos64_t."
 case "$fpossize" in
 8) echo "(Your fpos_t is 64 bits, so you could use that.)" ;;
 esac
fi
$rm_try
set
 d_fpos64_t
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fpos64_t.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
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```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_int64_t: Inhdr cat rm_try Setvar Compile i_inttypes
?MAKE: -pick add $@ %<
?S:d_int64_t:
?S: This symbol will be defined if the C compiler supports int64_t.
?S:.
?C:HAS_INT64_T:
?C: This symbol will defined if the C compiler supports int64_t.
?C: Usually the <inttypes.h> needs to be included, but sometimes
?C: <sys/types.h> is enough.
?C:.
?H:#$d_int64_t     HAS_INT64_T              /**/
?H:.
?LINT:set d_int64_t
: check for int64_t
echo " "
echo "Checking to see if you have int64_t..." >&4
$cat >try.c <<EOCP
#include
 <sys/types.h>
#$i_inttypes I_INTTYPES
#ifdef I_INTTYPES
#include <inttypes.h>
#endif
int main() { int64_t x = 7; }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have int64_t."
else
 val="$undef"
 echo "You do not have int64_t."
fi
$rm_try
set d_int64_t
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_int64_t.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_arpainet.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_arpainet.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_arpainet: Inhdr
?MAKE: -pick add $@ %<
?S:i_arpainet:
?S: This variable conditionally defines the I_ARPA_INET symbol,
?S: and indicates whether a C program should include <arpa/inet.h>.
?S:.
?C:I_ARPA_INET:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <arpa/inet.h> to get inet_addr and friends
 declarations.
?C:.
?H:#$i_arpainet I_ARPA_INET  /**/
?H:.
?LINT:set i_arpainet
: see if arpa/inet.h has to be included
set arpa/inet.h i_arpainet
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_arpainet.U
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```
?RCS: $Id$
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_safebcpy.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  15:40:58  ram
?RCS: patch61: improved overlapping copy check
?RCS: patch61: comfort them if they have memmove
```

```
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.3  1995/07/25  13:58:40  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.2  1995/01/11  15:29:23  ram
?RCS: patch45: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:49:03
  ram
?RCS: patch23: ensure string is not optimized in read-only memory (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_safebcpy: cat d_bcopy +cc +optimize +ccflags +ldflags +libs rm \
 d_memmove i_memory i_stdlib i_string i_unistd Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_safebcpy:
?S: This variable conditionally defines the HAS_SAFE_BCOPY symbol if
?S: the bcopy() routine can do overlapping copies.
?S:.
?C:HAS_SAFE_BCOPY (SAFE_BCOPY):
?C: This symbol, if defined, indicates that the bcopy routine is available
?C: to copy potentially overlapping memory blocks. Otherwise you should
?C: probably use memmove() or memcpy(). If neither is defined, roll your
?C: own version.
?C:.
?H:#$d_safebcpy HAS_SAFE_BCOPY /**/
?H:.
?F:!safebcpy
?LINT: set d_safebcpy
: can bcopy handle overlapping blocks?
?X: assume the worst
val="$undef"
case "$d_bcopy" in
"$define")
 echo " "
 echo "Checking to see if your bcopy() can do overlapping
 copies..." >&4
 $cat >foo.c <<EOCP
#$i_memory I_MEMORY
#$i_stdlib I_STDLIB
#$i_string I_STRING
#$i_unistd I_UNISTD
EOCP
 $cat >>foo.c <<'EOCP'
#include <stdio.h>
```

```
#ifdef I_MEMORY
#  include <memory.h>
#endif
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#ifdef I_STRING
#  include <string.h>
#else
#  include <strings.h>
#endif
#ifdef I_UNISTD
#  include <unistd.h>  /* Needed for NetBSD */
#endif
int main()
{
char buf[128], abc[128];
char *b;
int len;
int off;
int align;

?X: Copy "abcde..." string to char abc[] so that gcc doesn't
?X: try to store the string in read-only memory.
bcopy("abcdefghijklmnopqrstuvwxyz0123456789", abc, 36);

for (align = 7; align >= 0; align--) {
 for (len = 36; len; len--) {
  b = buf+align;
  bcopy(abc, b, len);
  for (off = 1; off <= len; off++) {
   bcopy(b, b+off, len);
   bcopy(b+off, b, len);
   if (bcmp(b, abc, len))
    exit(1);
  }
 }
}
exit(0);
}
EOCP
 if $cc $optimize $ccflags $ldflags \
      -o safebcpy foo.c $libs >/dev/null 2>&1; then
  if ./safebcpy
 2>/dev/null; then
   echo "Yes, it can."
   val="$define"
  else
```

```
  echo "It can't, sorry."
  case "$d_memmove" in
  "$define") echo "But that's Ok since you have memmove()." ;;
  esac
 fi
else
 echo "(I can't compile the test program, so we'll assume not...)"
 case "$d_memmove" in
 "$define") echo "But that's Ok since you have memmove()." ;;
 esac
fi
;;
esac
$rm -f foo.* safebcpy core
set d_safebcpy
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_safebcpy.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_fdim: Inlibc
?MAKE: -pick add $@ %<
?S:d_fdim:
?S: This variable conditionally defines the HAS_FDIM symbol, which
?S: indicates to the C program that the fdim() routine is available.
?S:.
?C:HAS_FDIM:
?C: This symbol, if defined, indicates that the fdim routine is
?C: available to do the positive difference function.
?C:.
?H:#$d_fdim HAS_FDIM  /**/
?H:.
?LINT:set d_fdim
: see if fdim exists
set fdim d_fdim
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fdim.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_wchar: Inhdr
?MAKE: -pick add $@ %<
?S:i_wchar:
?S: This variable conditionally defines the I_WCHAR symbol,
?S: that indicates whether a C program may include <wchar.h>.
?S:.
?C:I_WCHAR:
?C: This symbol, if defined, indicates to the C program that <wchar.h>
?C: is available for inclusion
?C:.
?H:#$i_wchar   I_WCHAR /**/
?H:.
?LINT:set i_wchar
: see if wchar.h is present
set wchar.h i_wchar
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_wchar.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2016 Dagfinn Ilmari Mannsker & H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_siginfo_si_errno d_siginfo_si_pid d_siginfo_si_uid d_siginfo_si_addr d_siginfo_si_status
d_siginfo_si_band d_siginfo_si_value d_siginfo_si_fd: d_sigaction pidtype uidtype Hasfield_t
?MAKE: -pick add $@ %<
?S:d_siginfo_si_errno:
?S: This variable conditionally defines the HAS_SIGINFO_SI_ERRNO symbol,
?S: which indicates that the siginfo_t struct has the si_errno member.
?S:.
?S:d_siginfo_si_pid:
?S: This variable conditionally defines the HAS_SIGINFO_SI_PID symbol,
?S: which indicates that the siginfo_t struct has the si_pid member.
?S:.
?S:d_siginfo_si_uid:
```

```
?S: This variable conditionally defines the HAS_SIGINFO_SI_UID symbol,
?S: which indicates that the siginfo_t struct has the si_uid member.
?S:.
?S:d_siginfo_si_addr:
?S: This
 variable conditionally defines the HAS_SIGINFO_SI_ADDR symbol,
?S: which indicates that the siginfo_t struct has the si_addr member.
?S:.
?S:d_siginfo_si_status:
?S: This variable conditionally defines the HAS_SIGINFO_SI_STATUS symbol,
?S: which indicates that the siginfo_t struct has the si_status member.
?S:.
?S:d_siginfo_si_band:
?S: This variable conditionally defines the HAS_SIGINFO_SI_BAND symbol,
?S: which indicates that the siginfo_t struct has the si_band member.
?S:.
?S:d_siginfo_si_value:
?S: This variable conditionally defines the HAS_SIGINFO_SI_VALUE symbol,
?S: which indicates that the siginfo_t struct has the si_value member.
?S:.
?S:d_siginfo_si_fd:
?S: This variable conditionally defines the HAS_SIGINFO_SI_FD symbol,
?S: which indicates that the siginfo_t struct has the si_fd member.
?S:.
?C:HAS_SIGINFO_SI_ERRNO:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_errno member
?C:.
?C:HAS_SIGINFO_SI_PID:
?C: This
 symbol, if defined, indicates that siginfo_t has the
?C: si_pid member
?C:.
?C:HAS_SIGINFO_SI_UID:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_uid member
?C:.
?C:HAS_SIGINFO_SI_ADDR:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_addr member
?C:.
?C:HAS_SIGINFO_SI_STATUS:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_status member
?C:.
?C:HAS_SIGINFO_SI_BAND:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_band member
```

```
?C:.
?C:HAS_SIGINFO_SI_VALUE:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_value member
?C:.
?C:HAS_SIGINFO_SI_FD:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_fd member
?C:.
?H:#$d_siginfo_si_errno HAS_SIGINFO_SI_ERRNO /**/
?H:#$d_siginfo_si_pid HAS_SIGINFO_SI_PID /**/
?H:#$d_siginfo_si_uid HAS_SIGINFO_SI_UID /**/
?H:#$d_siginfo_si_addr HAS_SIGINFO_SI_ADDR /**/
?H:#$d_siginfo_si_status HAS_SIGINFO_SI_STATUS /**/
?H:#$d_siginfo_si_band HAS_SIGINFO_SI_BAND /**/
?H:#$d_siginfo_si_value HAS_SIGINFO_SI_VALUE /**/
?H:#$d_siginfo_si_fd HAS_SIGINFO_SI_FD /**/
?H:.
:
 see what siginfo fields we have
case "$d_sigaction" in
"$define")
 echo "Checking if your siginfo_t has si_errno field...">&4
 set d_siginfo_si_errno siginfo_t int si_errno $d_sigaction signal.h
 eval $hasfield_t;

 echo "Checking if your siginfo_t has si_pid field...">&4
 set d_siginfo_si_pid siginfo_t $pidtype si_pid $d_sigaction signal.h
 eval $hasfield_t;

 echo "Checking if your siginfo_t has si_uid field...">&4
 set d_siginfo_si_uid siginfo_t $uidtype si_uid $d_sigaction signal.h
 eval $hasfield_t;

 echo "Checking if your siginfo_t has si_addr field...">&4
 set d_siginfo_si_addr siginfo_t "void *" si_addr $d_sigaction signal.h
 eval $hasfield_t;

 echo "Checking if your siginfo_t has si_status field...">&4
 set d_siginfo_si_status siginfo_t int si_status $d_sigaction signal.h
 eval $hasfield_t;

 echo "Checking if your siginfo_t has si_band field...">&4
 set
 d_siginfo_si_band siginfo_t long si_band $d_sigaction signal.h
 eval $hasfield_t;

 echo "Checking if your siginfo_t has si_value field...">&4
```

```
 set d_siginfo_si_value siginfo_t "union sigval" si_value $d_sigaction signal.h
 eval $hasfield_t;

 echo "Checking if your siginfo_t has si_fd field...">&4
 set d_siginfo_si_fd siginfo_t int si_fd $d_sigaction signal.h
 eval $hasfield_t;

 ;;
*)
 d_siginfo_si_errno="$undef"
 d_siginfo_si_pid="$undef"
 d_siginfo_si_uid="$undef"
 d_siginfo_si_addr="$undef"
 d_siginfo_si_status="$undef"
 d_siginfo_si_band="$undef"
 d_siginfo_si_value="$undef"
 d_siginfo_si_fd="$undef"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_siginfo_si.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_scorfl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_scorfl.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_scorfl: cat Myread Oldconfig nametype Setvar
?MAKE: -pick add $@ %<
?S:d_scorfl:
?S: This variable conditionally defines the SCOREFULL symbol, which
?S: indicates to the C program that any scoreboard kept by the program
?S: should be kept on the basis of the user's full name as opposed to
?S: the user's login name.
?S:.
?C:SCOREFULL:
```

```
?C: This
 symbol, if defined, indicates that any scoreboard kept by the
?C: program should be kept on the basis of the user's full name as opposed
?C: to the user's login name.  If the user can change his full name he
?C: can enter multiple scores if this is defined.
?C:.
?H:#$d_scorfl SCOREFULL /**/
?H:.
?LINT:set d_scorfl
: see how they want the scoreboard kept
case "$d_scorfl" in
"$define") dflt=y ;;
*) dflt=n ;;
esac
case "$nametype" in
other) val="$undef" ;;
*)
 $cat <<'EOM'

The scoreboard can be kept with one score per login name, or one score per full
name.  If users can change their full name, or if there is more than one person
on your system with the same full name, you should keep the score by login name
(the full name is still printed).

EOM
 rp='Do you want the scoreboard kept by full name?'
 . ./myread
 case "$ans" in
 y*) val="$define" ;;
 *) val="$undef" ;;
 esac
 ;;
esac
set d_scorfl
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_scorfl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_tcstpgrp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_tcstpgrp.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:12:11  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_tcsetpgrp: Inlibc
?MAKE: -pick add $@ %<
?S:d_tcsetpgrp:
?S: This variable conditionally defines the HAS_TCSETPGRP symbol, which
?S: indicates to the C program that the tcsetpgrp() routine is available
?S: to set foreground process group ID.
?S:.
?C:HAS_TCSETPGRP
 :
?C: This symbol, if defined, indicates that the tcsetpgrp routine is
?C: available to set foreground process group ID.
?C:.
?H:#$d_tcsetpgrp HAS_TCSETPGRP  /**/
?H:.
?LINT:set d_tcsetpgrp
: see if tcsetpgrp exists
set tcsetpgrp d_tcsetpgrp
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_tcstpgrp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sbrksmart.U,v 3.0.1.2 1995/01/11 15:35:41 ram Exp $
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sbrksmart.U,v $
?RCS: Revision 3.0.1.2  1995/01/11  15:35:41  ram
?RCS: patch45: now sets sbrksmart to undef explicitly when lacking sbrk()
?RCS: patch45: forgot a cast when using return value from sbrk()
?RCS:
```

```
?RCS: Revision 3.0.1.1  1994/01/24  14:16:45  ram
?RCS: patch16: created
?RCS:
?MAKE:sbrksmart: cat d_sbrk Compile rm
?MAKE: -pick add $@ %<
?S:sbrksmart:
?S: This variable conditionally defines HAS_SMART_SBRK if the sbrk()
?S: routine honors a negative
 argument to lower the break value.
?S:.
?C:HAS_SMART_SBRK:
?C: This symbol is defined when the sbrk() system call may be used with
?C: a negative argument to lower the break value, therefore releasing
?C: core to the system. If not, you'd probably be better off using the
?C: mmap() system call.
?C:.
?H:#$sbrksmart HAS_SMART_SBRK /**/
?H:.
?T:dumb
?F:!sbrk
: see if sbrk can release core to the kernel
echo " "
case "$d_sbrk" in
"$define")
 echo "Let's see if your sbrk() is smart enough to release core..." >&4
 $cat > sbrk.c <<'EOC'
#define INC 256  /* Small enough to be less than a page size */

int main()
{
 char *obrk = (char *) sbrk(0);
 char *nbrk;

 nbrk = (char *) sbrk(INC);
 if (nbrk == (char *) -1)
  exit(1); /* Not enough memory */
 if (nbrk != obrk)
  exit(2); /* Unreliable sbrk() */
 nbrk = (char *) sbrk(-INC);
 if (nbrk == (char *) -1)
  exit(3); /* May have understood negative arg as huge positive */
 if (obrk != (char *) sbrk(0))
  exit(4); /* Not smart, definitely */

 exit(0);  /*
 Ok */
}
EOC
```

```
 sbrksmart="$undef"
 dumb='-- assuming dumb sbrk().'
 set sbrk
 if eval $compile_ok; then
  ./sbrk >/dev/null 2>&1
  case $? in
  0) sbrksmart="$define"
   echo "Yes, it can be used with negative values." ;;
  1) echo "Sorry, not enough memory $dumb" ;;
  2) echo "No it's not, and besides it seems to be buggy..." ;;
  3) echo "No, it fails with negative values." ;;
  4) echo "Nope, your sbrk() is too dumb." ;;
  *) echo "Err... Unexpected result $dumb" ;;
  esac
 else
  echo "(Could not compile test program $dumb)"
 fi
 ;;
*)
 echo "Since you don't have sbrk(), let's forget about the smart test!"
 sbrksmart="$undef"
 ;;
esac
$rm -f sbrk sbrk.* core
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/sbrksmart.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: perlxv.U,v 1.1 2000/08/31 17:53:56 jhi Exp jhi $
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:ivtype uvtype nvtype ivsize uvsize nvsize \
    i8type u8type i16type u16type i32type u32type i64type u64type \
    i8size u8size i16size u16size i32size u32size i64size u64size \
    d_nv_preserves_uv nv_preserves_uv_bits nv_overflows_integers_at \
    d_nv_zero_is_allbits_zero: \
 echo rm_try use64bitint d_quad quadtype uquadtype usequadmath \
 d_longdbl uselongdouble longdblsize doublesize i_quadmath \
 shortsize intsize longsize i_stdlib libs gccversion \
 cat Compile i_inttypes test signal_t run
?MAKE: -pick add $@ %<
?S:ivtype:
```

?S: This variable contains the C type used for Perl's IV.
?S:.
?S:uvtype:
?S: This variable contains the C type
used for Perl's UV.
?S:.
?S:nvtype:
?S: This variable contains the C type used for Perl's NV.
?S:.
?S:i8type:
?S: This variable contains the C type used for Perl's I8.
?S:.
?S:u8type:
?S: This variable contains the C type used for Perl's U8.
?S:.
?S:i16type:
?S: This variable contains the C type used for Perl's I16.
?S:.
?S:u16type:
?S: This variable contains the C type used for Perl's U16.
?S:.
?S:i32type:
?S: This variable contains the C type used for Perl's I32.
?S:.
?S:u32type:
?S: This variable contains the C type used for Perl's U32.
?S:.
?S:i64type:
?S: This variable contains the C type used for Perl's I64.
?S:.
?S:u64type:
?S: This variable contains the C type used for Perl's U64.
?S:.
?S:ivsize:
?S: This variable is the size of an IV in bytes.
?S:.
?S:uvsize:
?S: This variable is the size of a UV in bytes.
?S:.
?S:i8size:
?S: This variable is the size of an I8 in bytes.
?S:.
?S:u8size:
?S: This variable is the size of an U8 in bytes.
?S:.
?S:i16size:
?S: This variable is the

size of an I16 in bytes.
?S:.
?S:u16size:
?S: This variable is the size of an U16 in bytes.
?S:.
?S:i32size:
?S: This variable is the size of an I32 in bytes.
?S:.
?S:u32size:
?S: This variable is the size of an U32 in bytes.
?S:.
?S:i64size:
?S: This variable is the size of an I64 in bytes.
?S:.
?S:u64size:
?S: This variable is the size of an U64 in bytes.
?S:.
?S:nvsize:
?S: This variable is the size of a Perl NV in bytes.
?S: Note that some floating point formats have unused bytes.
?S:.
?S:d_nv_preserves_uv:
?S: This variable indicates whether a variable of type nvtype
?S: can preserve all the bits a variable of type uvtype.
?S:.
?S:nv_preserves_uv_bits:
?S: This variable indicates how many of bits type uvtype
?S: a variable nvtype can preserve.
?S:.
?S:nv_overflows_integers_at:
?S: This variable gives the largest integer value that NVs can hold
?S: as a constant floating point expression.
?S: If it could not be determined, it holds the value 0.
?S:.
?S:d_nv_zero_is_allbits_zero:
?S: This
variable indicates whether a variable of type nvtype
?S: stores 0.0 in memory as all bits zero.
?S:.
?C:IVTYPE:
?C: This symbol defines the C type used for Perl's IV.
?C:.
?C:UVTYPE:
?C: This symbol defines the C type used for Perl's UV.
?C:.
?C:I8TYPE:
?C: This symbol defines the C type used for Perl's I8.
?C:.

```
?C:U8TYPE:
?C: This symbol defines the C type used for Perl's U8.
?C:.
?C:I16TYPE:
?C: This symbol defines the C type used for Perl's I16.
?C:.
?C:U16TYPE:
?C: This symbol defines the C type used for Perl's U16.
?C:.
?C:I32TYPE:
?C: This symbol defines the C type used for Perl's I32.
?C:.
?C:U32TYPE:
?C: This symbol defines the C type used for Perl's U32.
?C:.
?C:I64TYPE:
?C: This symbol defines the C type used for Perl's I64.
?C:.
?C:U64TYPE:
?C: This symbol defines the C type used for Perl's U64.
?C:.
?C:NVTYPE:
?C: This symbol defines the C type used for Perl's NV.
?C:.
?C:IVSIZE:
?C: This symbol contains the sizeof(IV).
?C:.
?C:UVSIZE:
?C: This symbol contains the
 sizeof(UV).
?C:.
?C:I8SIZE:
?C: This symbol contains the sizeof(I8).
?C:.
?C:U8SIZE:
?C: This symbol contains the sizeof(U8).
?C:.
?C:I16SIZE:
?C: This symbol contains the sizeof(I16).
?C:.
?C:U16SIZE:
?C: This symbol contains the sizeof(U16).
?C:.
?C:I32SIZE:
?C: This symbol contains the sizeof(I32).
?C:.
?C:U32SIZE:
?C: This symbol contains the sizeof(U32).
```

```
?C:.
?C:I64SIZE:
?C: This symbol contains the sizeof(I64).
?C:.
?C:U64SIZE:
?C: This symbol contains the sizeof(U64).
?C:.
?C:NVSIZE:
?C: This symbol contains the sizeof(NV).
?C: Note that some floating point formats have unused bytes.
?C: The most notable example is the x86* 80-bit extended precision
?C: which comes in byte sizes of 12 and 16 (for 32 and 64 bit
?C: platforms, respectively), but which only uses 10 bytes.
?C: Perl compiled with -Duselongdouble on x86* is like this.
?C:.
?C:NV_PRESERVES_UV:
?C: This symbol, if defined, indicates that a variable of type NVTYPE
?C: can preserve all the bits of a variable of type UVTYPE.
?C:.
?C:NV_PRESERVES_UV_BITS:
?C: This
 symbol contains the number of bits a variable of type NVTYPE
?C: can preserve of a variable of type UVTYPE.
?C:.
?C:NV_OVERFLOWS_INTEGERS_AT:
?C: This symbol gives the largest integer value that NVs can hold. This
?C: value + 1.0 cannot be stored accurately. It is expressed as constant
?C: floating point expression to reduce the chance of decimal/binary
?C: conversion issues. If it can not be determined, the value 0 is given.
?C:.
?C:NV_ZERO_IS_ALLBITS_ZERO:
?C: This symbol, if defined, indicates that a variable of type NVTYPE
?C: stores 0.0 in memory as all bits zero.
?C:.
?H:#define IVTYPE  $ivtype  /**/
?H:#define UVTYPE  $uvtype  /**/
?H:#define I8TYPE  $i8type  /**/
?H:#define U8TYPE  $u8type  /**/
?H:#define I16TYPE  $i16type /**/
?H:#define U16TYPE  $u16type /**/
?H:#define I32TYPE  $i32type /**/
?H:#define U32TYPE  $u32type /**/
?H:?%<:#ifdef HAS_QUAD
?H:?%<:#define I64TYPE  $i64type /**/
?H:?%<:#define U64TYPE  $u64type /**/
?H:?%<:#endif
?H:#define NVTYPE  $nvtype  /**/
?H:#define IVSIZE  $ivsize  /**/
```

```
?H:#define UVSIZE  $uvsize  /**/
?H:#define I8SIZE  $i8size  /**/
?H:#define U8SIZE  $u8size  /**/
?H:#define I16SIZE  $i16size /**/
?H:#define U16SIZE  $u16size /**/
?H:#define I32SIZE  $i32size /**/
?H:#define U32SIZE  $u32size /**/
?H:?%<:#ifdef
 HAS_QUAD
?H:?%<:#define I64SIZE  $i64size /**/
?H:?%<:#define U64SIZE  $u64size /**/
?H:?%<:#endif
?H:#define NVSIZE  $nvsize  /**/
?H:#$d_nv_preserves_uv NV_PRESERVES_UV
?H:#define NV_PRESERVES_UV_BITS $nv_preserves_uv_bits
?H:#define NV_OVERFLOWS_INTEGERS_AT ($nv_overflows_integers_at)
?H:#$d_nv_zero_is_allbits_zero NV_ZERO_IS_ALLBITS_ZERO
?H:?%<:#if UVSIZE == 8
?H:?%<:#   ifdef BYTEORDER
?H:?%<:#       if BYTEORDER == 0x1234
?H:?%<:#           undef BYTEORDER
?H:?%<:#           define BYTEORDER 0x12345678
?H:?%<:#       else
?H:?%<:#           if BYTEORDER == 0x4321
?H:?%<:#               undef BYTEORDER
?H:?%<:#               define BYTEORDER 0x87654321
?H:?%<:#
    endif
?H:?%<:#       endif
?H:?%<:#   endif
?H:?%<:#endif
?H:.
?T:xxx
?T:d
?F:!try
: Check basic sizes
echo " "
$echo "Choosing the C types to be used for Perl's internal types..." >&4

case "$use64bitint:$d_quad:$quadtype" in
define:define:?*)
 ivtype="$quadtype"
 uvtype="$uquadtype"
 ivsize=8
 uvsize=8
 ;;
*) ivtype="long"
 uvtype="unsigned long"
```

```
 ivsize=$longsize
 uvsize=$longsize
 ;;
esac

case "$uselongdouble:$d_longdbl" in
define:define)
 nvtype="long double"
 nvsize=$longdblsize
 ;;
*) nvtype=double
 nvsize=$doublesize
 ;;
esac

case "$usequadmath:$i_quadmath" in
define:define)
 nvtype="__float128"
 nvsize=16
 case "$libs" in
 *quadmath*) ;;
 *) $cat <<EOM >&4

*** You requested the use of the quadmath library, but you
*** do not seem to have the quadmath library installed.
*** Cannot continue, aborting.
EOM
   exit 1
   ;;
 esac
 ;;
define:*) $cat <<EOM >&4

*** You requested the use of the quadmath library, but you
*** do not seem to have the required header, <quadmath.h>.
EOM
  case "$gccversion" in
 [23].*|4.[0-5]*)
  $cat <<EOM >&4
*** Your gcc looks a bit old:
*** $gccversion
EOM
   ;;
 ")
  $cat <<EOM >&4
*** You are not running a gcc.
EOM
   ;;
```

```
 esac
 $cat <<EOM >&4
*** For the quadmath library you need at least gcc 4.6.
*** Cannot continue, aborting.
EOM
 exit 1
 ;;
esac

$echo "(IV will be "$ivtype", $ivsize bytes)"
$echo "(UV will be "$uvtype", $uvsize bytes)"
$echo "(NV will be "$nvtype", $nvsize bytes)"

$cat >try.c <<EOCP
#$i_inttypes I_INTTYPES
#ifdef I_INTTYPES
#include <inttypes.h>
#endif
#include <stdio.h>
int main() {
#ifdef INT8
  int8_t i =  INT8_MAX;
 uint8_t u = UINT8_MAX;
 printf("int8_t\n");
#endif
#ifdef INT16
  int16_t i =  INT16_MAX;
 uint16_t u = UINT16_MAX;
 printf("int16_t\n");
#endif
#ifdef INT32
  int32_t i =  INT32_MAX;
 uint32_t u = UINT32_MAX;
 printf("int32_t\n");
#endif
}
EOCP

i8type="signed char"
u8type="unsigned char"
i8size=1
u8size=1

case "$i16type" in
") case "$shortsize" in
 2) i16type=short
  u16type="unsigned
```

```
 short"
  i16size=$shortsize
  u16size=$shortsize
  ;;
 esac
 ;;
esac
case "$i16type" in
") set try -DINT16
 if eval $compile; then
  case "`$run ./try`" in
  int16_t)
   i16type=int16_t
   u16type=uint16_t
   i16size=2
   u16size=2
   ;;
  esac
 fi
 ;;
esac
case "$i16type" in
") if $test $shortsize -ge 2; then
  i16type=short
  u16type="unsigned short"
  i16size=$shortsize
  u16size=$shortsize
 fi
 ;;
esac

case "$i32type" in
") case "$longsize" in
 4) i32type=long
  u32type="unsigned long"
  i32size=$longsize
  u32size=$longsize
  ;;
 *) case "$intsize" in
  4) i32type=int
   u32type="unsigned int"
   i32size=$intsize
   u32size=$intsize
   ;;
  esac
  ;;
 esac
 ;;
```

```
esac
case "$i32type" in
") set try -DINT32
 if eval $compile; then
  case "`$run ./try`" in
  int32_t)
   i32type=int32_t
   u32type=uint32_t
   i32size=4
   u32size=4
   ;;
  esac
 fi
 ;;
esac
case "$i32type" in
") if $test $intsize -ge 4; then
  i32type=int
  u32type="unsigned int"
  i32size=$intsize
  u32size=$intsize
 fi
 ;;
esac

case
 "$i64type" in
") case "$d_quad:$quadtype" in
 define:?*)
  i64type="$quadtype"
  u64type="$uquadtype"
  i64size=8
  u64size=8
  ;;
 esac
 ;;
esac

$echo "Checking how many bits of your UVs your NVs can preserve..." >&4
$cat <<EOP >try.c
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <sys/types.h>
#include <signal.h>
#ifdef SIGFPE
```

```
/* volatile so that the compiler has to store it out to memory */
volatile int bletched = 0;
$signal_t blech(int s) { bletched = 1; }
#endif
int main() {
   $uvtype u = 0;
   $nvtype d;
   int     n = 8 * $uvsize;
   int     i;
#ifdef SIGFPE
   signal(SIGFPE, blech);
#endif

   for (i = 0; i < n; i++) {
     u = u << 1 | ($uvtype)1;
     d = ($nvtype)u;
     if (($uvtype)d != u)
       break;
     if (d <= 0)
 break;
     d = ($nvtype)(u - 1);
     if (($uvtype)d != (u - 1))
       break;
#ifdef SIGFPE
     if (bletched)
 break;
#endif
   }
   printf("%d\n",
 ((i == n) ? -n : i));
   exit(0);
}
EOP
set try

d_nv_preserves_uv="$undef"
if eval $compile; then
 nv_preserves_uv_bits="`$run ./try`"
fi
case "$nv_preserves_uv_bits" in
\-[1-9]*)
 nv_preserves_uv_bits=`expr 0 - $nv_preserves_uv_bits`
 $echo "Your NVs can preserve all $nv_preserves_uv_bits bits of your UVs."  >&4
 d_nv_preserves_uv="$define"
 ;;
[1-9]*) $echo "Your NVs can preserve only $nv_preserves_uv_bits bits of your UVs."  >&4
 d_nv_preserves_uv="$undef" ;;
*) $echo "Can't figure out how many bits your NVs preserve." >&4
```

```
 nv_preserves_uv_bits="0" ;;
esac
$rm_try

$echo "Checking to find the largest integer value your NVs can hold..." >&4
$cat <<EOP >try.c
#include <stdio.h>

typedef $nvtype NV;

int
main() {
 NV value = 2;
 int count = 1;

 while(count < 256) {
   /* volatile so that the compiler has to store it out to memory */
   volatile NV up = value + 1.0;
   volatile NV negated = -value;
   volatile NV down = negated - 1.0;
   volatile NV got_up = up -
 value;
   int up_good = got_up == 1.0;
   int got_down = down - negated;
   int down_good = got_down == -1.0;

   if (down_good != up_good) {
     fprintf(stderr,
       "Inconsistency - up %d %f; down %d %f; for 2**%d (%.20f)\n",
       up_good, (double) got_up, down_good, (double) got_down,
       count, (double) value);
     return 1;
   }
   if (!up_good) {
     while (1) {
 if (count > 8) {
   count -= 8;
   fputs("256.0", stdout);
 } else {
   count--;
   fputs("2.0", stdout);
 }
 if (!count) {
   puts("");
   return 0;
 }
 fputs("*", stdout);
     }
```

```
   }
   value *= 2;
   ++count;
 }
 fprintf(stderr, "Cannot overflow integer range, even at 2**%d (%.20f)\n",
   count, (double) value);
 return 1;
}
EOP
set try

nv_overflows_integers_at='0'
if eval $compile; then
   xxx="`$run ./try`"
   case "$?" in
 0)
     case "$xxx" in
  2*)  cat >&4 <<EOM
The largest integer your NVs can preserve is equal to $xxx
EOM
      nv_overflows_integers_at="$xxx"
      ;;
  *)  cat
 >&4 <<EOM
Cannot determine the largest integer value your NVs can hold, unexpected output
'$xxx'
EOM
      ;;
     esac
     ;;
 *)  cat >&4 <<EOM
Cannot determine the largest integer value your NVs can hold
EOM
     ;;
   esac
fi
$rm_try

$echo "Checking whether NV 0.0 is all bits zero in memory..." >&4
$cat <<EOP >try.c
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <string.h>
#include <sys/types.h>
#include <signal.h>
```

```
#ifdef SIGFPE
/* volatile so that the compiler has to store it out to memory */
volatile int bletched = 0;
$signal_t blech(int s) { bletched = 1; }
#endif

int checkit($nvtype d, const char *where) {
   void *v = &d;
   unsigned char *p = (unsigned char *)v;
   unsigned char *end = p + sizeof(d);
   int fail = 0;

   while (p < end)
 fail += *p++;

   if (!fail)
 return 0;

   p = (unsigned char *)v;
   printf("No - %s: 0x", where);
   while (p < end)
 printf ("%02X", *p++);
   printf("\n");
   return 1;
}

int main(int
 argc, char **argv) {
   $nvtype d = 0.0;
   int fail = 0;
   fail += checkit(d, "0.0");

   /* The compiler shouldn't be assuming that bletched is 0  */
   d = bletched;

   fail += checkit(d, "bleched");

#ifdef SIGFPE
   signal(SIGFPE, blech);
#endif

   /* Paranoia - the compiler should have no way of knowing that ANSI says
      that argv[argc] will always be NULL.  Actually, if it did assume this it
      would be buggy, as this is C and main() can be called from elsewhere in
      the program.  */
   d = argv[argc] ? 1 : 0;

   if (d) {
```

```
 printf("Odd argv[argc]=%p, d=%g\n", argv[argc], d);
   }

   fail += checkit(d, "ternary");

   memset(&d, sizeof(d), argv[argc] ? 1 : 0);

   if (d != 0.0) {
 printf("No - memset doesn't give 0.0\n");
 /* This might just blow up:  */
 printf("(gives %g)\n", d);
 return 1;
   }

#ifdef SIGFPE
   if (bletched) {
 printf("No - something bleched\n");
 return 1;
   }
#endif
   if (fail) {
     printf("No - %d fail(s)\n",
 fail);
     return 1;
   }
   printf("Yes\n");
   return 0;
}
EOP
set try

d_nv_zero_is_allbits_zero="$undef"
if eval $compile; then
   xxx="`$run ./try`"
   case "$?" in
 0)
     case "$xxx" in
  Yes)  cat >&4 <<EOM
0.0 is represented as all bits zero in memory
EOM
      d_nv_zero_is_allbits_zero="$define"
      ;;
  *)  cat >&4 <<EOM
0.0 is not represented as all bits zero in memory
EOM
      d_nv_zero_is_allbits_zero="$undef"
      ;;
     esac
```

```
    ;;
 *)  cat >&4 <<EOM
0.0 is not represented as all bits zero in memory
EOM
    d_nv_zero_is_allbits_zero="$undef"
    ;;
  esac
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/perlxv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_mkfifo.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_mkfifo.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:14:17  ram
?RCS: patch36: created by ADO
?RCS:
?RCS:
?MAKE:d_mkfifo: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkfifo:
?S: This variable conditionally defines the HAS_MKFIFO symbol, which
?S: indicates to the C program that the mkfifo() routine is available.
?S:.
?C:HAS_MKFIFO :
?C: This symbol, if defined, indicates that the mkfifo
 routine is
?C: available to create FIFOs. Otherwise, mknod should be able to
?C: do it for you. However, if mkfifo is there, mknod might require
?C: super-user privileges which mkfifo will not.
?C:.
?H:#$d_mkfifo HAS_MKFIFO  /**/
?H:.
?LINT:set d_mkfifo
```

```
: see if mkfifo exists
set mkfifo d_mkfifo
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_mkfifo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_dlsymun.U,v $
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_dlsymun.U,v $
?RCS:
?RCS:
?MAKE:d_dlsymun: cat cc ccflags ldflags ld rm Setvar dlsrc i_dlfcn i_stdlib \
 cccdlflags ccdlflags lddlflags libs dlext _o run to
?MAKE: -pick add $@ %<
?X: This is specific to perl5.
?S:d_dlsymun:
?S: This variable conditionally defines DLSYM_NEEDS_UNDERSCORE, which
?S: indicates that we need to prepend an underscore to the symbol
?S: name before calling dlsym().
?S:.
?C:DLSYM_NEEDS_UNDERSCORE:
?C: This symbol, if defined, indicates that we need to prepend an
?C: underscore to the symbol name before calling dlsym().  This only
?C: makes sense if you *have* dlsym, which we will presume is the
?C: case if you're using dl_dlopen.xs.
?C:.
?H:#$d_dlsymun DLSYM_NEEDS_UNDERSCORE /**/
?H:.
?LINT:set
 d_dlsymun
?T: xxx
?F:!fred
: Check if dlsym need a leading underscore
echo " "
val="$undef"

case "$dlsrc" in
dl_dlopen.xs)
 echo "Checking whether your dlsym() needs a leading underscore ..." >&4
 $cat >dyna.c <<'EOM'
```

```
fred () { }
EOM

$cat >fred.c<<EOM

#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_dlfcn I_DLFCN
#ifdef I_DLFCN
#include <dlfcn.h>      /* the dynamic linker include file for SunOS/Solaris */
#else
#include <sys/types.h>
#include <nlist.h>
#include <link.h>
#endif

extern int fred() ;

int main()
{
   void * handle ;
   void * symbol ;
#ifndef RTLD_LAZY
   int mode = 1 ;
#else
   int mode = RTLD_LAZY ;
#endif
   handle = dlopen("./dyna.$dlext", mode) ;
   if (handle == NULL) {
 printf ("1\n") ;
 fflush (stdout) ;
 exit(0);
   }
   symbol = dlsym(handle, "fred") ;
   if (symbol == NULL) {
 /* try putting a leading underscore */
 symbol = dlsym(handle, "_fred") ;
 if (symbol ==
 NULL) {
     printf ("2\n") ;
     fflush (stdout) ;
     exit(0);
 }
 printf ("3\n") ;
   }
```

```
  else
 printf ("4\n") ;
  fflush (stdout) ;
  exit(0);
}
EOM
 : Call the object file tmp-dyna.o in case dlext=o.
 if $cc $ccflags $cccdlflags -c dyna.c > /dev/null 2>&1 &&
  mv dyna${_o} tmp-dyna${_o} > /dev/null 2>&1 &&
  $ld -o dyna.$dlext $ldflags $lddlflags tmp-dyna${_o} > /dev/null 2>&1 &&
  $cc -o fred $ccflags $ldflags $cccdlflags $ccdlflags fred.c $libs > /dev/null 2>&1 && $to dyna.$dlext; then
  xxx=`$run ./fred`
  case $xxx in
  1) echo "Test program failed using dlopen." >&4
   echo "Perhaps you should not use dynamic loading." >&4;;
  2) echo "Test program failed using dlsym." >&4
   echo "Perhaps you should not use dynamic loading." >&4;;
  3) echo "dlsym needs a leading underscore" >&4
   val="$define" ;;
  4) echo "dlsym doesn't need a leading underscore." >&4;;
  esac
 else
  echo "I can't compile and run the test program." >&4
            echo "I'm guessing that dlsym
 doesn't need a leading underscore." >&4
 fi
 ;;
esac

$rm -f fred fred.* dyna.$dlext dyna.* tmp-dyna.*

set d_dlsymun
eval $setvar

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
5.36.0/U/perl/d_dlsymun.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_link.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: d_link.U,v $
?RCS: Revision 3.0.1.1  1993/08/25  14:01:13  ram
?RCS: patch6: created for completeness
?RCS:
?MAKE:d_link: Inlibc
?MAKE: -pick add $@ %<
?S:d_link:
?S: This variable conditionally defines HAS_LINK if link() is
?S: available to create hard links.
?S:.
?C:HAS_LINK:
?C: This symbol, if defined, indicates that the link routine is
?C: available to create hard links.
?C:.
?H:#$d_link HAS_LINK /**/
?H:.
?LINT:set d_link
: see if link exists
set
 link d_link
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_link.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_munmap.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_munmap.U,v $
?RCS: Revision 3.0.1.1  1993/12/15  08:19:22  ram
?RCS: patch15: created
?RCS:
?MAKE:d_munmap: Inlibc
?MAKE: -pick add $@ %<
?S:d_munmap:
?S: This variable conditionally defines HAS_MUNMAP if munmap() is
?S: available to unmap a region mapped by mmap().
?S:.
```

```
?C:HAS_MUNMAP:
?C: This symbol, if defined, indicates that the munmap system call is
?C: available to unmap a region, usually mapped by mmap().
?C:.
?H:#$d_munmap HAS_MUNMAP  /**/
?H:.
?LINT:set
 d_munmap
: see if munmap exists
set munmap d_munmap
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_munmap.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: randfunc.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This is the new unit that should be used when random
?X: functions are to be used. It thus makes randbits.U obsolete.
?X:
?MAKE:randfunc mrand seedfunc nrandbits: cat +cc rm test Myread Csym
?MAKE: -pick add $@ %<
?S:randfunc:
?S: Indicates the name of the random number function to use.
?S: Values include drand48, random, and rand. In C programs,
?S: the 'nrand' macro is defined
 to generate uniformly distributed
?S: random numbers over the range [0., 1.] (see mrand and nrand).
?S:.
?S:mrand:
?S: Indicates the macro to be used to generate normalized
?S: random numbers.  Uses randfunc, often divided by
?S: (double) ((1 << nrandbits) -1) in order to normalize the result.
```

```
?S: In C programs, the macro 'nrand' is maped on mrand.
?S:.
?S:seedfunc:
?S: Indicates the random number generating seed function.
?S: Values include srand48, srandom, and srand.
?S:.
?S:nrandbits:
?S: Indicates how many bits are produced by the function used to
?S: generate normalized random numbers.
?S:.
?C:nrand:
?C: This macro is to be used to generate uniformly distributed
?C: random numbers over the range [0., 1.].
?C:.
?C:seednrand:
?C: This symbol defines the macro to be used in seeding the
?C: random number generator (see nrand).
?C:.
?H:#define nrand()  $mrand  /**/
?H:#define seednrand(x) $seedfunc(x) /**/
?H:.
?T:cont val
?LINT:nothere $nrandbits)
: How can we generate normalized
 random numbers ?
echo " "
case "$randfunc" in
")
 if set drand48 val -f; eval $csym; $val; then
  dflt="drand48"
  echo "Good, found drand48()." >&4
 elif set random val -f; eval $csym; $val; then
  dflt="random"
  echo "OK, found random()." >&4
 else
  dflt="rand"
  echo "Yick, looks like I have to use rand()." >&4
 fi
 echo " "
 ;;
*)
 dflt="$randfunc"
 ;;
esac
cont=true
while $test "$cont"; do
 rp="Use which function to generate random numbers?"
 . ./myread
```

```
?X: Invalidates nrandbits if the answer is not the default so
?X: that the value stored in config.sh will not be used when
?X: we change our random function.
 if $test "$ans" = "$dflt"; then
  : null
 else
  nrandbits=''
 fi
 randfunc="$ans"
 if set $ans val -f; eval $csym; $val; then
  cont=''
 else
  dflt=n
  rp="Function $ans does not exists. Use that name anyway?"
  . ./myread
  dflt=rand
  case "$ans" in
   [yY]*) cont='';;
  esac
 fi
 case "$cont" in
 '')
  case "$randfunc" in
  drand48)
   mrand="drand48()"
   seedfunc="srand48"
   ;;
  rand*)
   case
 "$nrandbits" in
   '')
echo "Checking to see how many bits your $randfunc() function produces..." >&4
   $cat >try.c <<EOCP
#include <stdio.h>
int main()
{
 register int i;
 register unsigned long tmp;
 register unsigned long max = 0L;
 extern long random();

 for (i = 1000; i; i--) {
  tmp = (unsigned long)$randfunc();
  if (tmp > max) max = tmp;
 }
 for (i = 0; max; i++)
  max /= 2;
 printf("%d\n",i);
```

```
}
EOCP
   if $cc -o try try.c >/dev/null 2>&1 ; then
   dflt=`try`
   else
   dflt='?'
   echo "(I can't seem to compile the test program...)"
   fi
   ;;
   *)
    dflt="$nrandbits"
    ;;
   esac
   rp="How many bits does your $randfunc() function produce?"
   . ./myread
   nrandbits="$ans"
   $rm -f try.c try
   mrand="($randfunc() / (double) ((1 << $nrandbits) -1))"
   seedfunc="srand"
   ;;
?X: The following is provided just in case...
  *)
   dflt="31"
   rp="How many bits does your $randfunc() function produce?"
   . ./myread
   nrandbits="$ans"
   seedfunc="s$randfunc"
   mrand="($randfunc()
 / (double) ((1 << $nrandbits) -1))"
   if set $seedfunc val -f; eval $csym; $val; then
    echo "(Using $seedfunc() to seed random generator)"
   else
    echo "(Warning: no $seedfunc() to seed random generator)"
    seedfunc=rand
   fi
   ;;
  esac
  ;;
 esac
done
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/randfunc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_sigsetjmp.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:44:33  ram
?RCS: patch61: created
?RCS:
?MAKE:d_sigsetjmp: Setvar cat +cc +ccflags +ldflags libs rm
?MAKE: -pick add $@ %<
?S:d_sigsetjmp:
?S: This variable conditionally defines the HAS_SIGSETJMP symbol,
?S: which indicates that the sigsetjmp() routine
 is available to
?S: call setjmp() and optionally save the process's signal mask.
?S:.
?C:HAS_SIGSETJMP:
?C: This variable indicates to the C program that the sigsetjmp()
?C: routine is available to save the calling process's registers
?C: and stack environment for later use by siglongjmp(), and
?C: to optionally save the process's signal mask.  See
?C: Sigjmp_buf, Sigsetjmp, and Siglongjmp.
?C:.
?C:Sigjmp_buf:
?C: This is the buffer type to be used with Sigsetjmp and Siglongjmp.
?C:.
?C:Sigsetjmp:
?C: This macro is used in the same way as sigsetjmp(), but will invoke
?C: traditional setjmp() if sigsetjmp isn't available.
?C: See HAS_SIGSETJMP.
?C:.
?C:Siglongjmp:
?C: This macro is used in the same way as siglongjmp(), but will invoke
?C: traditional longjmp() if siglongjmp isn't available.
?C: See HAS_SIGSETJMP.
?C:.
?H:?%<:#$d_sigsetjmp HAS_SIGSETJMP /**/
?H:?%<:#ifdef HAS_SIGSETJMP
?H:?%<:#define Sigjmp_buf sigjmp_buf
?H:?%<:#define Sigsetjmp(buf,save_mask) sigsetjmp((buf),(save_mask))
```

```
?H:?%<:#define
 Siglongjmp(buf,retval) siglongjmp((buf),(retval))
?H:?%<:#else
?H:?%<:#define Sigjmp_buf jmp_buf
?H:?%<:#define Sigsetjmp(buf,save_mask) setjmp((buf))
?H:?%<:#define Siglongjmp(buf,retval) longjmp((buf),(retval))
?H:?%<:#endif
?H:.
?W:%<:Sigjmp_buf Sigsetjmp Siglongjmp
?F:!set
?LINT:set d_sigsetjmp
: see if sigsetjmp exists
?X: We can't check for these symbols with Inlibc because sigsetjmp
?X: is (sometimes? always?) a macro under GCC
echo " "
case "$d_sigsetjmp" in
")
 $cat >set.c <<'EOP'
#include <setjmp.h>
sigjmp_buf env;
int set = 1;
int main()
{
 if (sigsetjmp(env,1))
  exit(set);
 set = 0;
 siglongjmp(env, 1);
 exit(1);
}
EOP
 if $cc $ccflags $ldflags -o set set.c $libs > /dev/null 2>&1 ; then
  if ./set >/dev/null 2>&1; then
   echo "POSIX sigsetjmp found." >&4
   val="$define"
  else
   $cat >&4 <<EOM
Uh-Oh! You have POSIX sigsetjmp and siglongjmp, but they do not work properly!!
I'll ignore them.
EOM
   val="$undef"
  fi
 else
  echo "sigsetjmp not found."
 >&4
  val="$undef"
 fi
 ;;
*) val="$d_sigsetjmp"
```

```
 case "$d_sigsetjmp" in
 $define) echo "POSIX sigsetjmp found." >&4;;
 $undef) echo "sigsetjmp not found." >&4;;
 esac
 ;;
esac
set d_sigsetjmp
eval $setvar
$rm -f set.c set
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sigsetjmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Whoa.U,v 3.0.1.2 1997/02/28 15:21:21 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Whoa.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:21:21  ram
?RCS: patch61: whoa script now starts with leading "startsh"
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:02:01  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to warn the user in case a change into a variable
 is noticed.
?X:
?X: To use this unit, $was must hold the old value that has changed. Upon
?X: exit, the two variables $td and $tu are set to the correct value for
?X: respectively defining or undefining a variable. For instance, if $vas was
?X: $undef, but now $var is $define, after calling . whoa, you should use
?X: eval "$var=\$tu" to finally set $var to the correct value. See unit Inlibc.
?X:
?MAKE:Whoa: Myread startsh hint
?MAKE: -pick add $@ %<
```

```
?F:./whoa
?T:var was td tu hintfile
: set up the script used to warn in case of inconsistency
cat <<EOS >whoa
$startsh
EOS
cat <<'EOSC' >>whoa
dflt=y
case "$hint" in
   recommended)
 case "$hintfile" in
 ") echo "The $hint value for \$$var on this machine was \"$was\"!" >&4
  ;;
 *) echo "Hmm.  Based on the hints in hints/$hintfile.sh, " >&4
  echo "the $hint value for \$$var on this machine was \"$was\"!" >&4
  ;;
 esac
 ;;
   *) echo " "
 echo "*** WHOA THERE!!! ***" >&4
 echo "    The $hint value for \$$var on this machine was
 \"$was\"!" >&4
 ;;
esac
rp="    Keep the $hint value?"
. ./myread
case "$ans" in
y) td=$was; tu=$was;;
esac
EOSC
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Whoa.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_termio.U,v $
?RCS: Revision 3.0.1.4  1994/10/29  16:20:54  ram
```

```
?RCS: patch36: call ./usg and ./Cppsym explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.3  1994/08/29  16:26:38  ram
?RCS: patch32: don't include all three I_* symbols in config.h
?RCS: patch32: (had forgotten to undo this part last time)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:25:03  ram
?RCS: patch27: undone ADO's fix in previous patch since it was useless
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:05:23
 ram
?RCS: patch23: now include all three defines in config.h (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_termio i_sgtty i_termios: test Inlibc Cppsym Guess Setvar Findhdr Warn
?MAKE: -pick add $@ %<
?S:i_termio:
?S: This variable conditionally defines the I_TERMIO symbol, which
?S: indicates to the C program that it should include <termio.h> rather
?S: than <sgtty.h>.
?S:.
?S:i_termios:
?S: This variable conditionally defines the I_TERMIOS symbol, which
?S: indicates to the C program that the POSIX <termios.h> file is
?S: to be included.
?S:.
?S:i_sgtty:
?S: This variable conditionally defines the I_SGTTY symbol, which
?S: indicates to the C program that it should include <sgtty.h> rather
?S: than <termio.h>.
?S:.
?C:I_TERMIO:
?C: This symbol, if defined, indicates that the program should include
?C: <termio.h> rather than <sgtty.h>.  There are also differences in
?C: the ioctl() calls that depend on the value of
 this symbol.
?C:.
?C:I_TERMIOS:
?C: This symbol, if defined, indicates that the program should include
?C: the POSIX termios.h rather than sgtty.h or termio.h.
?C: There are also differences in the ioctl() calls that depend on the
?C: value of this symbol.
?C:.
?C:I_SGTTY:
?C: This symbol, if defined, indicates that the program should include
?C: <sgtty.h> rather than <termio.h>.  There are also differences in
```

```
?C: the ioctl() calls that depend on the value of this symbol.
?C:.
?H:#$i_termio I_TERMIO  /**/
?H:#$i_termios I_TERMIOS  /**/
?H:#$i_sgtty I_SGTTY  /**/
?H:.
?T:val2 val3
?LINT:set i_termio i_sgtty i_termios
: see if this is a termio system
val="$undef"
val2="$undef"
val3="$undef"
?X: Prefer POSIX-approved termios.h over all else
if $test `./findhdr termios.h`; then
 set tcsetattr i_termios
 eval $inlibc
 val3="$i_termios"
fi
echo " "
case "$val3" in
"$define") echo "You have POSIX termios.h... good!" >&4;;
*) if ./Cppsym pyr; then
  case "`/bin/universe`" in
  ucb) if $test `./findhdr
 sgtty.h`; then
    val2="$define"
    echo "<sgtty.h> found." >&4
   else
    echo "System is pyramid with BSD universe."
    ./warn "<sgtty.h> not found--you could have problems."
   fi;;
  *) if $test `./findhdr termio.h`; then
    val="$define"
    echo "<termio.h> found." >&4
   else
    echo "System is pyramid with USG universe."
    ./warn "<termio.h> not found--you could have problems."
   fi;;
  esac
?X: Start with USG to avoid problems if both usg/bsd was guessed
 elif ./usg; then
  if $test `./findhdr termio.h`; then
   echo "<termio.h> found." >&4
   val="$define"
  elif $test `./findhdr sgtty.h`; then
   echo "<sgtty.h> found." >&4
   val2="$define"
  else
```

```
  ./warn "Neither <termio.h> nor <sgtty.h> found--cross fingers!"
  fi
 else
  if $test `./findhdr sgtty.h`; then
   echo "<sgtty.h> found." >&4
   val2="$define"
  elif $test `./findhdr termio.h`; then
   echo "<termio.h> found." >&4
   val="$define"
  else
   ./warn "Neither <sgtty.h> nor <termio.h> found--cross
 fingers!"
  fi
 fi;;
esac
set i_termio; eval $setvar
val=$val2; set i_sgtty; eval $setvar
val=$val3; set i_termios; eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_termio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_csh.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:32:18  ram
?RCS: patch61: added full_csh to preserve the full path even when portable
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:53  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_csh full_csh: csh Setvar
?MAKE: -pick add $@ %<
?S:d_csh:
?S: This variable conditionally defines the CSH symbol, which
?S: indicates to the C program that the C-shell exists.
?S:.
?S:full_csh:
```

```
?S: This variable contains the full pathname to 'csh', whether
 or
?S: not the user has specified 'portability'.  This is only used
?S: in the compiled C program, and we assume that all systems which
?S: can share this executable will have the same full pathname to
?S: 'csh.'
?S:.
?X: Yes, I know about the C symbol PORTABLE, but I think csh
?X: is unlikely to move, and I'm too lazy to add all the
?X: #ifdef PORTABLE sections to the perl source.
?X:
?C:HAS_CSH:
?C: This symbol, if defined, indicates that the C-shell exists.
?C:.
?C:CSH:
?C: This symbol, if defined, contains the full pathname of csh.
?C:.
?X: Previously, I just did $d_csh CSH "$full_csh", but that caused
?X: problems on VMS where the config.sh extraction program changes
?X: $undef to a real cpp undef, and they then had  #undef CSH ""
?X: which the compiler didn't like.  It's easy to work around this,
?X: so I did.  --AD  3/1998.
?X: And we don't want to define CSH if !HAS_CSH, but we don't want
?X: those lines in config.h if they don't need CSH, so protect with ?CSH
?X: and not
 ?%<. --RAM, 15/02/2004
?H:?%<:#$d_csh HAS_CSH  /**/
?H:?CSH:#ifdef HAS_CSH
?H:?CSH:#define CSH "$full_csh" /**/
?H:?CSH:#endif
?H:.
?LINT:set d_csh
: get csh whereabouts
case "$csh" in
'csh') val="$undef" ;;
*) val="$define" ;;
esac
set d_csh
eval $setvar
: Respect a hint or command line value for full_csh.
case "$full_csh" in
") full_csh=$csh ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_csh.U

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```
?RCS: $Id: d_strxfrm_l.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_strxfrm_l.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:12:04  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_strxfrm_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_strxfrm_l:
?S: This variable conditionally defines HAS_STRXFRM_L if strxfrm_l() is
?S: available to transform strings.
?S:.
?C:HAS_STRXFRM_L:
?C: This symbol, if defined, indicates that the strxfrm_l() routine is
?C: available
 to transform strings.
?C:.
?H:#$d_strxfrm_l HAS_STRXFRM_L /**/
?H:.
?LINT:set d_strxfrm_l
: see if strxfrm_l exists
set strxfrm_l d_strxfrm_l
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strxfrm_l.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_quadmath: Inhdr
?MAKE: -pick add $@ %<
?S:i_quadmath:
?S: This variable conditionally defines I_QUADMATH, which indicates
```

```
?S: to the C program that it should include <quadmath.h>.
?S:.
?C:I_QUADMATH:
?C: This symbol, if defined, indicates that <quadmath.h> exists and
?C: should be included.
?C:.
?H:#$i_quadmath I_QUADMATH  /**/
?H:.
?LINT:set i_quadmath
: see if this is a quadmath.h system
set quadmath.h i_quadmath
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_quadmath.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:ilp d_ilp32 d_ilp64 d_lp64 d_can64: Assert Myread Setvar \
 cat rm +cc +ccflags echo n c intsize longsize ptrsize
?MAKE: -pick add $@ %<
?S:ilp:
?S: This variable contains the largest amount of bits that the CPU supports,
?S: from the compiler's point of view.  Typically 32 or 64.
?S:.
?S:d_ilp32:
?S: This variable conditionally defines the CPU_IS_ILP32.
?S:.
?S:d_ilp64:
?S: This variable conditionally defines the CPU_IS_ILP64.
?S:.
?S:d_lp64:
?S: This variable conditionally defines the CPU_IS_LP64.
?S:.
?S:d_can64:
?S: This variable
 conditionally defines CAN_HANDLE_64BITS.
?S:.
?C:CPU_ILP_MAXBITS:
```

```
?C: This symbol contains the largest amount of bits that the CPU natively
?C: supports from the compiler's point of view.  Typically 32 or 64.
?C:.
?C:CPU_IS_ILP32:
?C: When defined, this indicates that the integer, long and pointer variables
?C: hold 32-bit values.
?C:.
?C:CPU_IS_ILP64:
?C: When defined, this indicates that the integer, long and pointer variables
?C: hold 64-bit values.
?C:.
?C:CPU_IS_LP64:
?C: When defined, this indicates that the long and pointer variables hold
?C: 64-bit values but integers are smaller (probably only 32-bit wide).
?C:.
?C:CAN_HANDLE_64BITS:
?C: When defined, this indicates that the compiler can handle 64-bit values
?C: despite the CPU having only 32-bit registers.  These are available using
?C: the "long long" C type.  It is only defined for ILP32 machines, since
?C: 64-bit support is naturally available on ILP64 and LP64 machines.
?C:.
?H:#define CPU_ILP_MAXBITS $ilp
?H:#$d_ilp32
 CPU_IS_ILP32 /**/
?H:#$d_ilp64 CPU_IS_ILP64 /**/
?H:#$d_lp64 CPU_IS_LP64  /**/
?H:#$d_can64 CAN_HANDLE_64BITS /**/
?H:.
?LINT: set d_ilp32 d_ilp64 d_lp64 d_can64
: check for architecture type
echo " "
$echo $n "Computing CPU architecture type...$c" >&4
ilp=`expr $longsize \* 8`
case "$ptrsize" in
8)
 val=$undef; set d_ilp32; eval $setvar
 case "$intsize" in
 8)
  echo " ILP64." >&4
  val=$define; set d_ilp64; eval $setvar
  val=$undef; set d_lp64; eval $setvar
  ;;
 *)
  echo " LP64." >&4
  val=$define; set d_lp64; eval $setvar
  val=$undef; set d_ilp64; eval $setvar
  ;;
 esac
```

```
 ;;
*)
 echo " ILP${ilp}." >&4
 case "$ilp" in
 32) val=$define;;
 *) val=$undef;;
 esac
 set d_ilp32; eval $setvar
 val=$undef; set d_ilp64; eval $setvar
 val=$undef; set d_lp64; eval $setvar
 ;;
esac

@if CAN_HANDLE_64BITS || d_can64
: see whether compiler supports 64-bit emulation
val=$undef
case "$ilp" in
64) val=$define;;
*)
 $cat >try.c <<EOCP
#include "static_assert.h"
long long foo;
int main()
{
 STATIC_ASSERT(8
 == sizeof(foo));
 return 0;
}
EOCP
 if $cc -c $ccflags try.c >/dev/null 2>&1; then
  echo " "
  echo "Your compiler also supports 64-bit emulation." >&4
  val=$define
 fi
 $rm -f try.*
 ;;
esac
set d_can64
eval $setvar

@end
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/ilp.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_sigsetjmp.U,v 3.0.1.1 1997/02/28 15:44:33 ram Exp $

```
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_sigsetjmp.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:44:33  ram
?RCS: patch61: created
?RCS:
?MAKE:d_sigsetjmp: Compile Setvar cat rm_try run i_stdlib
?MAKE: -pick add $@ %<
?S:d_sigsetjmp:
?S: This variable conditionally defines the HAS_SIGSETJMP symbol,
?S: which
 indicates that the sigsetjmp() routine is available to
?S: call setjmp() and optionally save the process's signal mask.
?S:.
?C:HAS_SIGSETJMP:
?C: This variable indicates to the C program that the sigsetjmp()
?C: routine is available to save the calling process's registers
?C: and stack environment for later use by siglongjmp(), and
?C: to optionally save the process's signal mask.  See
?C: Sigjmp_buf, Sigsetjmp, and Siglongjmp.
?C:.
?C:Sigjmp_buf:
?C: This is the buffer type to be used with Sigsetjmp and Siglongjmp.
?C:.
?C:Sigsetjmp:
?C: This macro is used in the same way as sigsetjmp(), but will invoke
?C: traditional setjmp() if sigsetjmp isn't available.
?C: See HAS_SIGSETJMP.
?C:.
?C:Siglongjmp:
?C: This macro is used in the same way as siglongjmp(), but will invoke
?C: traditional longjmp() if siglongjmp isn't available.
?C: See HAS_SIGSETJMP.
?C:.
?H:?%<:#$d_sigsetjmp HAS_SIGSETJMP /**/
?H:?%<:#ifdef HAS_SIGSETJMP
?H:?%<:#define Sigjmp_buf sigjmp_buf
```

```
?H:?%<:#define Sigsetjmp(buf,save_mask)
 sigsetjmp((buf),(save_mask))
?H:?%<:#define Siglongjmp(buf,retval) siglongjmp((buf),(retval))
?H:?%<:#else
?H:?%<:#define Sigjmp_buf jmp_buf
?H:?%<:#define Sigsetjmp(buf,save_mask) setjmp((buf))
?H:?%<:#define Siglongjmp(buf,retval) longjmp((buf),(retval))
?H:?%<:#endif
?H:.
?W:%<:Sigjmp_buf Sigsetjmp Siglongjmp
?F:!try
?LINT:set d_sigsetjmp
: see if sigsetjmp exists
?X: We can't check for these symbols with Inlibc because sigsetjmp
?X: is (sometimes? always?) a macro under GCC
echo " "
case "$d_sigsetjmp" in
")
 $cat >try.c <<EOP
#include <setjmp.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
sigjmp_buf env;
int set = 1;
int main()
{
 if (sigsetjmp(env,1))
  exit(set);
 set = 0;
 siglongjmp(env, 1);
 exit(1);
}
EOP
 set try
 if eval $compile; then
  if $run ./try >/dev/null 2>&1; then
   echo "POSIX sigsetjmp found." >&4
   val="$define"
  else
   $cat >&4 <<EOM
Uh-Oh! You have POSIX sigsetjmp and siglongjmp, but they do not work properly!!
I'll
 ignore them.
EOM
   val="$undef"
  fi
```

```
 else
  echo "sigsetjmp not found." >&4
  val="$undef"
 fi
 ;;
*) val="$d_sigsetjmp"
 case "$d_sigsetjmp" in
 $define) echo "POSIX sigsetjmp found." >&4;;
 $undef) echo "sigsetjmp not found." >&4;;
 esac
 ;;
esac
set d_sigsetjmp
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_sigsetjmp.U
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```
?RCS: $Id: d_bcopy.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_bcopy.U,v $
?RCS: Revision 3.0.1.2  1993/10/16  13:48:04  ram
?RCS: patch12: added magic support for bcopy()
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:01:11  ram
?RCS: patch10: now only defines HAS_BCOPY, no macro remap on memcpy (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_bcopy: Inlibc
?MAKE: -pick add $@ %<
?S:d_bcopy:
?S: This variable conditionally defines the HAS_BCOPY
 symbol if
?S: the bcopy() routine is available to copy strings.
?S:.
```

```
?C:HAS_BCOPY:
?C: This symbol is defined if the bcopy() routine is available to
?C: copy blocks of memory.
?C:.
?H:#$d_bcopy HAS_BCOPY /**/
?H:.
?M:bcopy: HAS_BCOPY
?M:#ifndef HAS_BCOPY
?M:#ifndef bcopy
?M:#define bcopy(s,d,l) memcpy((d),(s),(l))
?M:#endif
?M:#endif
?M:.
?LINT:set d_bcopy
: see if bcopy exists
set bcopy d_bcopy
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_bcopy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_chroot.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_chroot.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:17  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_chroot: Inlibc
?MAKE: -pick add $@ %<
?S:d_chroot:
?S: This variable conditionally defines the HAS_CHROOT symbol, which
?S: indicates to the C program that the chroot() routine is available.
?S:.
?C:HAS_CHROOT :
?C: This symbol, if defined, indicates that the chroot routine
```

```
 is
?C: available.
?C:.
?H:#$d_chroot HAS_CHROOT  /**/
?H:.
?LINT:set d_chroot
: see if chroot exists
set chroot d_chroot
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_chroot.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: modetype.U,v 3.0.1.1 1994/10/29 16:25:07 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: modetype.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:25:07  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:modetype: Myread Typedef
?MAKE: -pick add $@ %<
?S:modetype:
?S: This variable defines modetype to be something like mode_t,
?S: int, unsigned short, or whatever type is used to declare file
?S: modes for system calls.
?S:.
?C:Mode_t:
?C: This symbol holds the type used to declare
 file modes
?C: for systems calls.  It is usually mode_t, but may be
?C: int or unsigned short.  It may be necessary to include <sys/types.h>
?C: to get any typedef'ed information.
?C:.
?H:#define Mode_t $modetype  /* file mode parameter for system calls */
?H:.
?LINT:set modetype
```

```
: see what type is used for mode_t
rp="What is the type used for file modes for system calls (e.g. fchmod())?"
set mode_t modetype int stdio.h sys/types.h
eval $typedef_ask
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/modetype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_madvise: Inlibc
?MAKE: -pick add $@ %<
?S:d_madvise:
?S: This variable conditionally defines HAS_MADVISE if madvise() is
?S: available to map a file into memory.
?S:.
?C:HAS_MADVISE:
?C: This symbol, if defined, indicates that the madvise system call is
?C: available to map a file into memory.
?C:.
?H:#$d_madvise HAS_MADVISE  /**/
?H:.
?LINT:set d_madvise
: see if madvise exists
set madvise d_madvise
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_madvise.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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```

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_time.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit finds which "time" include to use. If 'timezone' is used by the
?X: program, we also try to find which header should be included. Eventually,
?X: we look for <sys/select.h> if I_SYSSELECT is used, to get struct timeval.
?X:
?MAKE:i_time i_systime i_systimek timeincl: cat cc ccflags contains rm_try \
 echo n c +i_sysselct Findhdr
?MAKE: -pick add $@ %<
?S:i_time:
?S: This
 variable conditionally defines I_TIME, which indicates
?S: to the C program that it should include <time.h>.
?S:.
?S:i_systime:
?S: This variable conditionally defines I_SYS_TIME, which indicates
?S: to the C program that it should include <sys/time.h>.
?S:.
?S:i_systimek:
?S: This variable conditionally defines I_SYS_TIME_KERNEL, which
?S: indicates to the C program that it should include <sys/time.h>
?S: with KERNEL defined.
?S:.
?S:timeincl:
?S: This variable holds the full path of the included time header(s).
?S:.
?C:I_TIME (USE_TIME_H):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <time.h>.
?C:.
?C:I_SYS_TIME (I_SYSTIME USE_SYS_TIME_H NO_TIME_WITH_SYS_TIME):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/time.h>.
?C:.
?C:I_SYS_TIME_KERNEL (I_SYSTIMEKERNEL):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/time.h> with KERNEL defined.
?C:.
?H:#$i_time I_TIME  /**/
?H:#$i_systime
```

```
 I_SYS_TIME  /**/
?H:#$i_systimek I_SYS_TIME_KERNEL  /**/
?H:.
?W::timezone
?T:xselect flags sysselect s_timeval s_timezone
?LINT:change i_sysselct
: see if we should include time.h, sys/time.h, or both
echo " "
echo "Testing to see if we should include <time.h>, <sys/time.h> or both." >&4
$echo $n "I'm now running the test program...$c"
$cat >try.c <<'EOCP'
#include <sys/types.h>
#ifdef I_TIME
#include <time.h>
#endif
#ifdef I_SYSTIME
#ifdef SYSTIMEKERNEL
#define KERNEL
#endif
#include <sys/time.h>
#endif
#ifdef I_SYSSELECT
#include <sys/select.h>
#endif
int main()
{
 struct tm foo;
#ifdef S_TIMEVAL
 struct timeval bar;
#endif
#ifdef S_TIMEZONE
 struct timezone tzp;
#endif
 if (foo.tm_sec == foo.tm_sec)
  exit(0);
#ifdef S_TIMEVAL
 if (bar.tv_sec == bar.tv_sec)
  exit(0);
#endif
 exit(1);
}
EOCP
flags=''
@if I_SYSSELECT
if $contains 'timeval.*{' `./findhdr sys/select.h` >/dev/null 2>&1; then
 xselect='-DI_SYSSELECT'
else
 xselect=''
```

```
fi
@end
@if timezone
for s_timezone
 in '-DS_TIMEZONE' ''; do
@else
s_timezone=''
@end
?X: Every package is given a try with 'struct timeval'
@if I_SYSSELECT
for sysselect in $xselect ''; do
@else
sysselect=''
@end
for s_timeval in '-DS_TIMEVAL' ''; do
for i_systimek in '' '-DSYSTIMEKERNEL'; do
for i_time in '' '-DI_TIME'; do
for i_systime in '-DI_SYSTIME' ''; do
 case "$flags" in
 '') $echo $n ".$c"
  if $cc $ccflags \
  $i_time $i_systime $i_systimek $sysselect $s_timeval $s_timezone \
  -o try try.c >/dev/null 2>&1 ; then
   set X $i_time $i_systime $i_systimek $sysselect $s_timeval
   shift
   flags="$*"
   echo " "
   $echo $n "Succeeded with $flags$c"
  fi
  ;;
 esac
done
done
done
done
@if I_SYSSELECT
done
@end
@if timezone
done
@end
timeincl=''
echo " "
case "$flags" in
*SYSTIMEKERNEL*) i_systimek="$define"
 timeincl=`./findhdr sys/time.h`
 echo "We'll include <sys/time.h> with KERNEL defined." >&4;;
*) i_systimek="$undef";;
```

```
esac
case "$flags" in
*I_TIME*) i_time="$define"
 timeincl=`./findhdr time.h`" $timeincl"
 echo
 "We'll include <time.h>." >&4;;
*) i_time="$undef";;
esac
case "$flags" in
*I_SYSTIME*) i_systime="$define"
 timeincl=`./findhdr sys/time.h`" $timeincl"
 echo "We'll include <sys/time.h>." >&4;;
*) i_systime="$undef";;
esac
@if I_SYSSELECT
case "$flags" in
*I_SYSSELECT*) i_sysselct="$define"
 timeincl=`./findhdr sys/select.h`" $timeincl"
 echo "We'll also include <sys/select.h> to get struct timeval." >&4;;
*) case "$i_sysselct" in
 ") i_sysselct="$undef";;
 esac
esac
@end
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_time.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_ndbm.U,v 3.0.1.1 1995/05/12 12:16:53 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: i_ndbm.U,v $
?RCS: Revision 3.0.1.1  1995/05/12  12:16:53  ram
?RCS: patch54: made more robust by checking both header and lib (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:23  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:i_ndbm i_gdbmndbm i_gdbm_ndbm d_ndbm d_ndbm_h_uses_prototypes \
 d_gdbmndbm_h_uses_prototypes d_gdbm_ndbm_h_uses_prototypes: \
    Inhdr Inlibc Setvar test d_cplusplus extern_C echo Protochk
?MAKE: -pick add $@ %<
?S:i_ndbm:
?S: This
 variable conditionally defines the I_NDBM symbol, which
?S: indicates to the C program that <ndbm.h> exists and should
?S: be included.
?S:.
?C:I_NDBM:
?C: This symbol, if defined, indicates that <ndbm.h> exists and should
?C: be included.
?C:.
?S:i_gdbmndbm:
?S: This variable conditionally defines the I_GDBMNDBM symbol, which
?S: indicates to the C program that <gdbm/ndbm.h> exists and should
?S: be included.  This was the location of the ndbm.h compatibility file
?S: in RedHat 7.1.
?S:.
?C:I_GDBMNDBM:
?C: This symbol, if defined, indicates that <gdbm/ndbm.h> exists and should
?C: be included.  This was the location of the ndbm.h compatibility file
?C: in RedHat 7.1.
?C:.
?S:i_gdbm_ndbm:
?S: This variable conditionally defines the I_GDBM_NDBM symbol, which
?S: indicates to the C program that <gdbm-ndbm.h> exists and should
?S: be included.  This is the location of the ndbm.h compatibility file
?S: in Debian 4.0.
?S:.
?C:I_GDBM_NDBM:
?C: This symbol, if defined, indicates
 that <gdbm-ndbm.h> exists and should
?C: be included.  This is the location of the ndbm.h compatibility file
?C: in Debian 4.0.
?C:.
?S:d_ndbm:
?S: This variable conditionally defines the HAS_NDBM symbol, which
?S: indicates that both the ndbm.h include file and an appropriate ndbm
?S: library exist.  Consult the different i_*ndbm variables
?S: to find out the actual include location.  Sometimes, a system has the
?S: header file but not the library.  This variable will only be set if
?S: the system has both.
?S:.
?C:HAS_NDBM:
?C: This symbol, if defined, indicates that some form of ndbm.h or compatibility
?C: include exists, along with the appropriate library.
```

?C:.
?S:d_ndbm_h_uses_prototypes:
?S: This variable conditionally defines the NDBM_H_USES_PROTOTYPES symbol,
?S: which indicates that the ndbm.h include file uses real ANSI C
?S: prototypes instead of K&R style function declarations. K&R style
?S: declarations are unsupported in C++, so the include file requires
?S: special handling
when using a C++ compiler and this variable is
?S: undefined. Consult the different d_*ndbm_h_uses_prototypes variables
?S: to get the same information for alternative ndbm.h include files.
?S:.
?C:NDBM_H_USES_PROTOTYPES:
?C: This symbol, if defined, indicates that <ndbm.h> uses real ANSI C
?C: prototypes instead of K&R style function declarations without any
?C: parameter information. While ANSI C prototypes are supported in C++,
?C: K&R style function declarations will yield errors.
?C:.
?S:d_gdbmndbm_h_uses_prototypes:
?S: This variable conditionally defines the NDBM_H_USES_PROTOTYPES symbol,
?S: which indicates that the gdbm/ndbm.h include file uses real ANSI C
?S: prototypes instead of K&R style function declarations. K&R style
?S: declarations are unsupported in C++, so the include file requires
?S: special handling when using a C++ compiler and this variable is
?S: undefined. Consult the different d_*ndbm_h_uses_prototypes variables
?S: to get the same information for alternative
ndbm.h include files.
?S:.
?C:GDBMNDBM_H_USES_PROTOTYPES:
?C: This symbol, if defined, indicates that <gdbm/ndbm.h> uses real ANSI C
?C: prototypes instead of K&R style function declarations without any
?C: parameter information. While ANSI C prototypes are supported in C++,
?C: K&R style function declarations will yield errors.
?C:.
?S:d_gdbm_ndbm_h_uses_prototypes:
?S: This variable conditionally defines the NDBM_H_USES_PROTOTYPES symbol,
?S: which indicates that the gdbm-ndbm.h include file uses real ANSI C
?S: prototypes instead of K&R style function declarations. K&R style
?S: declarations are unsupported in C++, so the include file requires
?S: special handling when using a C++ compiler and this variable is
?S: undefined. Consult the different d_*ndbm_h_uses_prototypes variables
?S: to get the same information for alternative ndbm.h include files.
?S:.
?C:GDBM_NDBM_H_USES_PROTOTYPES:
?C: This symbol, if defined, indicates that <gdbm-ndbm.h> uses real ANSI C
?C: prototypes
instead of K&R style function declarations without any
?C: parameter information. While ANSI C prototypes are supported in C++,
?C: K&R style function declarations will yield errors.

```
?C:.
?H:#$i_ndbm I_NDBM /**/
?H:#$i_gdbmndbm I_GDBMNDBM /**/
?H:#$i_gdbm_ndbm I_GDBM_NDBM /**/
?H:#$d_ndbm HAS_NDBM /**/
?H:#$d_ndbm_h_uses_prototypes NDBM_H_USES_PROTOTYPES /**/
?H:#$d_gdbmndbm_h_uses_prototypes GDBMNDBM_H_USES_PROTOTYPES /**/
?H:#$d_gdbm_ndbm_h_uses_prototypes GDBM_NDBM_H_USES_PROTOTYPES /**/
?H:.
?T:d_dbm_open name hdr ihdr ndbm_hdr_protochk
?LINT:set d_ndbm d_gdbmndbm_h_uses_prototypes d_gdbm_ndbm_h_uses_prototypes
d_ndbm_h_uses_prototypes
: see if ndbm.h is available
set ndbm.h i_ndbm
eval $inhdr
: Compatibility location for RedHat 7.1
set gdbm/ndbm.h i_gdbmndbm
eval $inhdr
: Compatibility location for Debian 4.0
set gdbm-ndbm.h i_gdbm_ndbm
eval $inhdr

val="$undef"
if $test "$i_ndbm" = "$define" -o "$i_gdbmndbm" = "$define" -o "$i_gdbm_ndbm" = "$define"; then
 : see if dbm_open exists
 set
 dbm_open d_dbm_open
 eval $inlibc
 case "$d_dbm_open" in
 $undef)
  i_ndbm="$undef"
  i_gdbmndbm="$undef"
  i_gdbm_ndbm="$undef"
  echo "We won't be including <ndbm.h>"
  val="$undef"
  ;;
 *) val="$define"
    ;;
 esac
fi
set d_ndbm
eval $setvar

ndbm_hdr_protochk='name=$1; hdr=$2;
eval "ihdr=\$""i_$name";
val="$undef";
if $test "$ihdr" = "$define"; then
 $echo "Checking if your <$hdr> uses prototypes..." >&4;
```

```
 case "$d_cplusplus" in
 $define) ./protochk "$extern_C void dbm_close(DBM *);" literal "extern \"C\" {" $ihdr $hdr literal "}" &&
val="$define" ;;
 *) ./protochk "$extern_C void dbm_close(int, int);" $ihdr $hdr || val="$define" ;;
 esac;
 case "$val" in
 $define) $echo "Your <$hdr> seems to have prototypes";;
 *) $echo "Your <$hdr> does not seem to have prototypes";;
 esac;
fi;
set "d_${name}_h_uses_prototypes";
eval $setvar'

set ndbm ndbm.h
eval $ndbm_hdr_protochk
set gdbmndbm gdbm/ndbm.h
eval $ndbm_hdr_protochk
set gdbm_ndbm gdbm-ndbm.h
eval $ndbm_hdr_protochk

Found
 in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
5.36.0/U/modified/i_ndbm.U
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?RCS: $Id: scriptdir.U,v 3.1 1999/07/09 18:20:13 doughera Exp doughera $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: scriptdir.U,v $
?RCS: Revision 3.1  1999/07/09 18:20:13  doughera
?RCS: Updated for installprefix
?RCS:
?RCS: Revision 3.0.1.3  1995/09/25  09:17:15  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:46:13  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:32:04  ram
?RCS: patch32: now uses installation prefix
```

```
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:09:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:scriptdir scriptdirexp installscript: cat test Getfile Loc \
 Oldconfig +bin Prefixit Setprefixvar prefixexp Prefixup
?MAKE: -pick add $@ %<
?Y:TOP
?D:scriptdir=''
?S:scriptdir:
?S: This variable holds the name of the directory in which the user wants
?S: to put publicly scripts for the package in question.  It is either
?S: the same directory as for binaries, or a special one that can be
?S: mounted across different architectures, like /usr/share. Programs
?S: must be prepared to deal with ~name expansion.
?S:.
?D:scriptdirexp=''
?S:scriptdirexp:
?S: This variable is the same as scriptdir, but is filename expanded
?S: at configuration time, for programs not wanting to bother with it.
?S:.
?S:installscript:
?S: This variable is usually the same as scriptdirexp, unless you are on
?S: a system running AFS, in which case they may differ slightly. You
?S: should always use this variable
 within your makefiles for portability.
?S:.
?C:SCRIPTDIR:
?C: This symbol holds the name of the directory in which the user wants
?C: to put publicly executable scripts for the package in question.  It
?C: is often a directory that is mounted across diverse architectures.
?C: Programs must be prepared to deal with ~name expansion.
?C:.
?C:SCRIPTDIR_EXP:
?C: This is the same as SCRIPTDIR, but is filename expanded at
?C: configuration time, for use in programs not prepared to do
?C: ~name substitutions at run-time.
?C:.
?H:#define SCRIPTDIR "$scriptdir" /**/
?H:#define SCRIPTDIR_EXP "$scriptdirexp" /**/
?H:.
?T:installscriptdir
?LINT:change prefixvar
?LINT:set scriptdir
?LINT:set scriptdirexp
: determine where public executable scripts go
set scriptdir scriptdir
```

```
eval $prefixit
case "$scriptdir" in
")
 dflt="$bin"
 : guess some guesses
 $test -d /usr/share/scripts && dflt=/usr/share/scripts
 $test -d /usr/share/bin     && dflt=/usr/share/bin
 $test -d /usr/local/script  && dflt=/usr/local/script
 $test
 -d /usr/local/scripts && dflt=/usr/local/scripts
 $test -d $prefixexp/script  && dflt=$prefixexp/script
 set dflt
 eval $prefixup
 ;;
*)  dflt="$scriptdir"
 ;;
esac
$cat <<EOM

Some installations have a separate directory just for executable scripts so
that they can mount it across multiple architectures but keep the scripts in
one spot.  You might, for example, have a subdirectory of /usr/share for this.
Or you might just lump your scripts in with all your other executables.

EOM
fn=d~
rp='Where do you keep publicly executable scripts?'
. ./getfile
if $test "X$ansexp" != "X$scriptdirexp"; then
 installscript=''
fi
installscriptdir=''
prefixvar=scriptdir
. ./setprefixvar
: A little fix up for an irregularly named variable.
installscript="$installscriptdir"
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/scriptdir.U
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```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
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?RCS:
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```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strtoul.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:46:43  ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_strtoul: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtoul:
?S: This variable conditionally defines the HAS_STRTOUL symbol, which
?S: indicates to the C program that the strtoul() routine is available
?S: to provide conversion of strings to unsigned long.
?S:.
?C:HAS_STRTOUL (STRTOUL):
?C: This symbol, if defined, indicates that the strtoul routine is
?C: available
 to provide conversion of strings to unsigned long.
?C:.
?H:#$d_strtoul HAS_STRTOUL /**/
?H:.
?LINT:set d_strtoul
: see if strtoul exists
set strtoul d_strtoul
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strtoul.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_msync.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msync.U,v $
?RCS: Revision 3.0.1.1  1993/12/15  08:19:17  ram
?RCS: patch15: created
?RCS:
```

```
?MAKE:d_msync: Inlibc
?MAKE: -pick add $@ %<
?S:d_msync:
?S: This variable conditionally defines HAS_MSYNC if msync() is
?S: available to synchronize a mapped file.
?S:.
?C:HAS_MSYNC:
?C: This symbol, if defined, indicates that the msync system call is
?C: available to synchronize a mapped file.
?C:.
?H:#$d_msync HAS_MSYNC  /**/
?H:.
?LINT:set d_msync
: see if
 msync exists
set msync d_msync
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_msync.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strtol.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strtol.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strtol: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtol:
?S: This variable conditionally defines the HAS_STRTOL symbol, which
?S: indicates to the C program that the strtol() routine is available
?S: to provide better numeric string conversion than atoi() and friends.
?S:.
?C:HAS_STRTOL (STRTOL):
?C: This symbol, if defined, indicates that
 the strtol routine is available
?C: to provide better numeric string conversion than atoi() and friends.
```

```
?C:.
?H:#$d_strtol HAS_STRTOL /**/
?H:.
?LINT:set d_strtol
: see if strtol exists
set strtol d_strtol
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strtol.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_remainder: Inlibc
?MAKE: -pick add $@ %<
?S:d_remainder:
?S: This variable conditionally defines the HAS_REMAINDER symbol, which
?S: indicates to the C program that the remainder() routine is available.
?S:.
?C:HAS_REMAINDER:
?C: This symbol, if defined, indicates that the remainder routine is
?C: available to return the floating-point remainder.
?C:.
?H:#$d_remainder HAS_REMAINDER  /**/
?H:.
?LINT:set d_remainder
: see if remainder exists
set remainder d_remainder
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_remainder.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Protochk.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X: This unit generates a ./protochk script that is used internally
?X: by Configure to check if this system will accept a particular
?X: prototype.
```

```
?X:
?X: To use it, say something like:
?X: hdrs="$define sys/types.h
?X:  $i_systime sys/time.h
?X:  $i_sysselct sys/select.h
?X:  $d_socket sys/socket.h"
?X: $xxx='fd_set *'
?X: try='extern int select _((int, $xxx, $xxx, $xxx, struct timeval *'));'
?X: if ./protochk "$try" $hdrs; then
?X:  echo "Your system accepts $xxx for the arguments to select."
?X: fi
?X:  (Of course select is harder, since the first arg can be int,
?X: size_t, or unsigned long, and the last arg may or may not have a
?X: 'const' before the 'struct timeval' :-(.  Also SunOS
 4.1.3 doesn't
?X: provide a select prototype so the compiler accepts anything :-).
?X:
?X: The C compiler on QNX warns about invalid pointer types, but
?X: still exits with a 0 exit status, so it's not much help here.
?X: (It does correctly detect incorrect non-pointer arguments).
?X: Still, since QNX is a POSIX-ish system, just make your first
?X: a POSIX-ish one, and QNX will probably accept it.
?X:
?X: For determining argument types, your compiler must support
?X: prototypes, and the header files must use them.  Determining
?X: return types, however, is easier.  Just give an ridiculous
?X: return type, something like
?X: ./protochk 'extern int atof _((void));' $i_stdlib stdlib.h
?X: that should surely fail if atof() is defined in <stdlib.h>
?X:
?X: There is also an 'escape' hatch built in.  If you have a pair
?X: of args   'literal 'stuff' then 'stuff' gets included literally
?X: into the test program.  This could be useful for doing something
?X: like
?X: hdrs="$define stdio.h
?X:  $define
 sys/types.h"
?X: ./protochk 'extern int fsetpos(FILE *, Fpos_t);' $args \
?X:   'literal' '#define Fpos_t long long'
?X: but you have to be really careful about the spaces in "literal".
?X:
?X:  Andy Dougherty   Feb. 1998
?MAKE:Protochk: cat rm_try startsh eunicefix +cc +optimize +ccflags \
 i_pthread usethreads
?MAKE: -pick add $@ %<
?F:./protochk
?X: Comfort metalint.  All these are actually used in the protochk script.
?T:foo status pthread_h_done
```

```
?LINT: change cc optimize ccflags define rm_try
?LINT: extern pthread_h_first
?LINT: change pthread_h_first
?LINT: change usethreads
?LINT: change i_pthread
: define a function to check prototypes
$cat > protochk <<EOSH
$startsh
cc="$cc"
optimize="$optimize"
ccflags="$ccflags"
define="$define"
rm_try="$rm_try"
usethreads=$usethreads
i_pthread=$i_pthread
pthread_h_first=$pthread_h_first
EOSH

$cat >> protochk <<'EOSH'

$rm_try
foo="$1"
shift
while test $# -ge 2; do
 case "$1" in
  $define) echo "#include <$2>" >> try.c ;;
  literal)
 echo "$2" >> try.c ;;
 esac
   # Extra magic for the benefit of systems that need pthread.h
   # to be included early to correctly detect threadsafe functions.
   # Such functions must guarantee themselves, though, that the usethreads
   # and i_pthread have been defined, before calling protochk.
   if test "$usethreads" = "$define" -a "$i_pthread" = "$define" -a "$pthread_h_first" = "$define" -a
"$pthread_h_done" = ""; then
 echo "#include <pthread.h>" >> try.c
 pthread_h_done=yes
   fi
   shift 2
done
cat >> try.c <<'EOCP'
#define _(args) args
EOCP
echo "$foo" >> try.c
?X: Just so we have something to compile.
echo 'int no_real_function_has_this_name _((void)) { return 0; }' >> try.c
$cc $optimize $ccflags -c try.c > /dev/null 2>&1
status=$?
```

```
$rm_try
exit $status
EOSH
chmod +x protochk
$eunicefix protochk
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/Protochk.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strccmp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strccmp.U,v $
?RCS: Revision 3.0.1.2  1994/05/06  14:54:34  ram
?RCS: patch23: fixed a typo (WED)
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:04:39  ram
?RCS: patch10: created (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strccmp: Inlibc
?MAKE: -pick add $@ %<
?S:d_strccmp:
?S: This variable conditionally defines the HAS_STRCASECMP symbol, which
?S: indicates to the C program
 that the strcasecmp() routine is available
?S: for case-insensitive string compares.
?S:.
?C:HAS_STRCASECMP:
?C: This symbol, if defined, indicates that the strcasecmp() routine is
?C: available for case-insensitive string compares.
?C:.
?H:#$d_strccmp HAS_STRCASECMP /**/
?H:.
?LINT:set d_strccmp
: see if strcasecmp exists
set strcasecmp d_strccmp
```

```
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strccmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2005-2007 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_libm_lib_version: Compile cat run rm_try
?MAKE: -pick add $@ %<
?S:d_libm_lib_version:
?S: This variable conditionally defines the LIBM_LIB_VERSION symbol,
?S: which indicates to the C program that math.h defines _LIB_VERSION
?S: being available in libm
?S:.
?C:LIBM_LIB_VERSION:
?C: This symbol, if defined, indicates that libm exports _LIB_VERSION
?C: and that math.h defines the enum to manipulate it.
?C:.
?H:#$d_libm_lib_version LIBM_LIB_VERSION  /**/
?H:.
?T:foo
?F:!try
: check to see if math.h defines _LIB_VERSION
d_libm_lib_version="$undef"
echo " "
echo "Checking to see if your libm supports _LIB_VERSION..." >&4
$cat >try.c <<EOCP
#include <unistd.h>
#include <math.h>
int main (int argc, char *argv[])
{
    printf ("%d\n", _LIB_VERSION);
   return (0);
   } /* main */
EOCP
set try
if eval $compile; then
   foo=`$run ./try`
   echo "Yes, it does ($foo)" >&4
   d_libm_lib_version="$define"
else
   echo "No, it does not (probably harmless)" >&4
   fi
```

$rm_try

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_libm_lib_version.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_usleep.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_usleep.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:53  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_usleep: Inlibc
?MAKE: -pick add $@ %<
?S:d_usleep:
?S: This variable conditionally defines HAS_USLEEP if usleep() is
?S: available to do high granularity sleeps.
?S:.
?C:HAS_USLEEP (USLEEP):
?C: This symbol, if defined, indicates that the usleep routine is
?C: available to let the process sleep on a sub-second accuracy.
?C:.
?H:#$d_usleep
 HAS_USLEEP  /**/
?H:.
?LINT:set d_usleep
: see if usleep exists
set usleep d_usleep
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_usleep.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_ndbm.U,v $
?RCS: Revision 3.0.1.1  1995/05/12  12:16:53  ram
?RCS: patch54: made more robust by checking both header and lib (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:23  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_ndbm: Inhdr Inlibc Setvar
?MAKE: -pick add $@ %<
?S:i_ndbm (d_ndbm):
?S: This variable conditionally defines the I_NDBM symbol, which
?S: indicates to the C program that <ndbm.h> exists and should
?S: be included.
?S:.
?C:I_NDBM (HAS_NDBM NDBM):
?C: This
 symbol, if defined, indicates that <ndbm.h> exists and should
?C: be included.
?C:.
?H:#$i_ndbm I_NDBM /**/
?H:.
?T:t_ndbm d_dbm_open
?LINT:set i_ndbm
: see if ndbm.h is available
?X: t_ndbm is a tentative check.  We might just have the .h, not the lib -- ADO
set ndbm.h t_ndbm
eval $inhdr
case "$t_ndbm" in
$define)
 : see if dbm_open exists
 set dbm_open d_dbm_open
 eval $inlibc
 case "$d_dbm_open" in
 $undef)
  t_ndbm="$undef"
  echo "We won't be including <ndbm.h>"
  ;;
 esac
 ;;
esac
val="$t_ndbm"
set i_ndbm
```

```
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_ndbm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethostprotos.U,v $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_gethostprotos : Hasproto i_netdb
?MAKE: -pick add $@ %<
?S:d_gethostprotos:
?S: This variable conditionally defines the HAS_GETHOST_PROTOS symbol,
?S: which indicates to the C program that <netdb.h> supplies
?S: prototypes for the various gethost*() functions.
?S: See also netdbtype.U for probing for various netdb types.
?S:.
?C:HAS_GETHOST_PROTOS:
?C: This symbol, if defined, indicates that <netdb.h> includes
?C: prototypes for gethostent(), gethostbyname(), and
?C: gethostbyaddr().  Otherwise,
 it is up to the program to guess
?C: them.  See netdbtype.U for probing for various Netdb_xxx_t types.
?C:.
?H:#$d_gethostprotos HAS_GETHOST_PROTOS /**/
?H:.
?LINT:set d_gethostprotos
?X: This test actually only checks for gethostent() and assumes the
?X: others follow suit.  This test fails for ChorusOS, which has
?X: gethostbyname and gethostbyaddr, but not gethostent.
: see if prototypes for various gethostxxx netdb.h functions are available
echo " "
set d_gethostprotos gethostent $i_netdb netdb.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/d_gethostprotos.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_erf: Inlibc
?MAKE: -pick add $@ %<
?S:d_erf:
?S: This variable conditionally defines the HAS_ERF symbol, which
?S: indicates to the C program that the erf() routine is available.
?S:.
?C:HAS_ERF:
?C: This symbol, if defined, indicates that the erf routine is
?C: available to do the error function.
?C:.
?H:#$d_erf HAS_ERF  /**/
?H:.
?LINT:set d_erf
: see if erf exists
set erf d_erf
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_erf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strtod.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strtod.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:46:36  ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_strtod: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtod:
?S: This variable conditionally defines the HAS_STRTOD symbol, which
?S: indicates to the C program that the strtod() routine is available
?S: to provide better numeric string conversion than atof().
?S:.
```

```
?C:HAS_STRTOD (STRTOD):
?C: This symbol, if defined,
 indicates that the strtod routine is
?C: available to provide better numeric string conversion than atof().
?C:.
?H:#$d_strtod HAS_STRTOD /**/
?H:.
?LINT:set d_strtod
: see if strtod exists
set strtod d_strtod
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strtod.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Signal.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:20:01  ram
?RCS: patch61: created
?RCS:
?X:
?X: This unit produces three files:
?X:
?X: 1- A signal.c file, which, when compiled and run, produces an output like:
?X:
?X:   HUP 1
?X:   INT 2
?X:   QUIT 3
?X:   etc...
?X:
?X: 2- A signal.awk script to parse the output of signal.c, fill
?X: in gaps (up to NSIG) and move duplicates to the end.
?X:
?X: 3- A signal_cmd script to compile signal.c and run it
?X: through sort -n -k 2 | uniq | awk -f signal.awk.
?X:
```

```
 (we try also sort -n +1 since some old hosts don't grok sort -k)
?X: (This is called signal_cmd to avoid OS/2 confusion with
?X: signal.cmd vs. signal.
?X: The signal_cmd script also falls back on checking signals one at a
?X: time in case the signal.c program fails.  On at least one version of
?X: Linux 2.1.x, the header file #define'd SIGRTMAX to a symbol that
?X: is not defined by the compiler/linker. :-(.  Further, on that same
?X: version of Linux, the user had a defective C-shell that gave an
?X: incorrect list for kill -l, so the fall-back didn't work.
?X:
?X: This unit is then used by sig_name.U.
?X:
?MAKE:Signal: test tr rm awk cat grep startsh eunicefix sed sort uniq \
 Findhdr cppstdin +cppflags cppminus Compile trnl run
?MAKE: -pick add $@ %<
?X:all files declared as "public" since they're used from other units
?F:signal.c signal_cmd signal.lst signal signal.awk
?T: xx xxx xxxfiles
?LINT:use rm run
: Trace out the files included by signal.h, then look for SIGxxx
 names.
?X: Remove SIGARRAYSIZE used by HPUX.
?X: Remove SIGSTKSIZE used by Linux.
?X: Remove SIGSTKSZ used by Posix.
?X: Remove SIGTYP void lines used by OS2.
?X: Some cpps, like os390, dont give the file name anywhere
if [ "X$fieldn" = X ]; then
 : Just make some guesses.  We check them later.
 xxx='/usr/include/signal.h /usr/include/sys/signal.h'
else
 xxx=`echo '#include <signal.h>' |
 $cppstdin $cppminus $cppflags 2>/dev/null |
 $grep '^[  ]*#.*include' |
 $awk "{print \\$$fieldn}" | $sed 's!"!!g' |\
  $sed 's!\\\\\\\\!/!g' | $sort | $uniq`
fi
?X: Check this list of files to be sure we have parsed the cpp output ok.
?X: This will also avoid potentially non-existent files, such
?X: as ../foo/bar.h
xxxfiles="
?X: Add /dev/null in case the $xxx list is empty.
for xx in $xxx /dev/null ; do
 $test -f "$xx" && xxxfiles="$xxxfiles $xx"
done
?X: If we have found no files, at least try signal.h
case "$xxxfiles" in
") xxxfiles=`./findhdr signal.h` ;;
esac
```

```
xxx=`awk '
$1 ~ /^#define$/ &&
 $2 ~ /^SIG[A-Z0-9]*$/ && $2 !~ /SIGARRAYSIZE/ && $2 !~ /SIGSTKSIZE/ && $2 !~ /SIGSTKSZ/ && $3 !~
/void/ {
 print substr($2, 4, 20)
}
$1 == "#" && $2 ~ /^define$/ && $3 ~ /^SIG[A-Z0-9]*$/ && $3 !~ /SIGARRAYSIZE/ && $4 !~ /void/ {
 print substr($3, 4, 20)
}' $xxxfiles`
: Append some common names just in case the awk scan failed.
xxx="$xxx ABRT ALRM BUS CANCEL CHLD CLD CONT DIL EMT FPE"
xxx="$xxx FREEZE HUP ILL INT IO IOT KILL LOST LWP PHONE"
xxx="$xxx PIPE POLL PROF PWR QUIT RTMAX RTMIN SEGV STKFLT STOP"
xxx="$xxx SYS TERM THAW TRAP TSTP TTIN TTOU URG USR1 USR2"
xxx="$xxx USR3 USR4 VTALRM WAITING WINCH WIND WINDOW XCPU XFSZ"

: generate a few handy files for later
$cat > signal.c <<'EOCP'
#include <sys/types.h>
#include <signal.h>
#include <stdio.h>
int main() {

/* Strange style to avoid deeply-nested #if/#else/#endif */
#ifndef NSIG
#  ifdef _NSIG
#    define NSIG (_NSIG)
#  endif
#endif

#ifndef NSIG
#  ifdef SIGMAX
#    define NSIG (SIGMAX+1)
#  endif
#endif

#ifndef NSIG
#  ifdef SIG_MAX
#
    define NSIG (SIG_MAX+1)
#  endif
#endif

#ifndef NSIG
#  ifdef MAXSIG
#    define NSIG (MAXSIG+1)
#  endif
#endif
```

```
#ifndef NSIG
#  ifdef MAX_SIG
#    define NSIG (MAX_SIG+1)
#  endif
#endif

#ifndef NSIG
#  ifdef SIGARRAYSIZE
#    define NSIG (SIGARRAYSIZE+1) /* Not sure of the +1 */
#  endif
#endif

#ifndef NSIG
#  ifdef _sys_nsig
#    define NSIG (_sys_nsig) /* Solaris 2.5 */
#  endif
#endif

/* Default to some arbitrary number that's big enough to get most
  of the common signals.
*/
#ifndef NSIG
#    define NSIG 50
#endif

printf("NSIG %d\n", NSIG);

#ifndef JUST_NSIG

EOCP

echo $xxx | $tr ' ' $trnl | $sort | $uniq | $awk '
{
 printf "#ifdef SIG"; printf $1; printf "\n"
 printf "printf(\""; printf $1; printf " %%d\\n\",SIG";
 printf $1; printf ");\n"
 printf "#endif\n"
}
END {
 printf "#endif /* JUST_NSIG */\n";
 printf "exit(0);\n}\n";
}
' >>signal.c
$cat >signal.awk <<'EOP'
BEGIN { ndups = 0 }
$1 ~ /^NSIG$/ { nsig = $2 }
($1 !~ /^NSIG$/) && (NF == 2) {
```

```
  if ($2 >
 maxsig) { maxsig = $2 }
  if (sig_name[$2]) {
 dup_name[ndups] = $1
 dup_num[ndups] = $2
 ndups++
  }
  else {
 sig_name[$2] = $1
 sig_num[$2] = $2
  }
}
END {
  if (nsig == 0) {
   nsig = maxsig + 1
  }
  printf("NSIG %d\n", nsig);
  for (n = 1; n < nsig; n++) {
 if (sig_name[n]) {
    printf("%s %d\n", sig_name[n], sig_num[n])
 }
 else {
    printf("NUM%d %d\n", n, n)
 }
  }
  for (n = 0; n < ndups; n++) {
 printf("%s %d\n", dup_name[n], dup_num[n])
  }
}
EOP
$cat >signal_cmd <<EOS
$startsh
if $test -s signal.lst; then
  echo "Using your existing signal.lst file"
 exit 0
fi
xxx="$xxx"
EOS
?X: Avoid variable interpolation problems, especially with
?X: xxx, which contains newlines.
$cat >>signal_cmd <<'EOS'

set signal
if eval $compile_ok; then
 $run ./signal$_exe | ($sort -n -k 2 2>/dev/null || $sort -n +1) |\
  $uniq | $awk -f signal.awk >signal.lst
else
 echo "(I can't seem be able to compile the whole test program)" >&4
```

```
 echo "(I'll try it in little
 pieces.)" >&4
 set signal -DJUST_NSIG
 if eval $compile_ok; then
  $run ./signal$_exe > signal.nsg
  $cat signal.nsg
 else
  echo "I can't seem to figure out how many signals you have." >&4
  echo "Guessing 50." >&4
  echo 'NSIG 50' > signal.nsg
 fi
 : Now look at all the signal names, one at a time.
 for xx in `echo $xxx | $tr ' ' $trnl | $sort | $uniq`; do
  $cat > signal.c <<EOCP
#include <sys/types.h>
#include <signal.h>
#include <stdio.h>
int main() {
printf("$xx %d\n", SIG${xx});
return 0;
}
EOCP
  set signal
  if eval $compile; then
   echo "SIG${xx} found."
   $run ./signal$_exe  >> signal.ls1
  else
   echo "SIG${xx} NOT found."
  fi
 done
 if $test -s signal.ls1; then
  $cat signal.nsg signal.ls1 |
   $sort -n | $uniq | $awk -f signal.awk >signal.lst
 fi

fi
if $test -s signal.lst; then
 :
else
 echo "(AAK! I can't compile the test programs -- Guessing)" >&4
 echo 'kill -l' >signal
 set X `csh -f <signal`
 $rm -f signal
 shift
 case $# in
 0) set HUP INT QUIT ILL TRAP ABRT
 EMT FPE KILL BUS SEGV SYS PIPE ALRM TERM;;
 esac
```

```
 echo $@ | $tr ' ' $trnl | \
     $awk '{ printf "%s %d\n", $1, ++s; }
    END { printf "NSIG %d\n", ++s }' >signal.lst
fi
$rm -f signal.c signal$_exe signal$_o signal.nsg signal.ls1
EOS
chmod a+x signal_cmd
$eunicefix signal_cmd
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Signal.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fegetround: Inlibc
?MAKE: -pick add $@ %<
?S:d_fegetround:
?S: This variable conditionally defines HAS_FEGETROUND if fegetround() is
?S: available to get the floating point rounding mode.
?S:.
?C:HAS_FEGETROUND:
?C: This symbol, if defined, indicates that the fegetround routine is
?C: available to return the macro corresponding to the current rounding
?C: mode.
?C:.
?H:#$d_fegetround HAS_FEGETROUND /**/
?H:.
?LINT:set d_fegetround
: see if fegetround exists
set fegetround d_fegetround
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fegetround.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_ftello: Inlibc longsize
```

```
?MAKE: -pick add $@ %<
?S:d_ftello:
?S: This variable conditionally defines the HAS_FTELLO symbol, which
?S: indicates to the C program that the ftello() routine is available.
?S:.
?C:HAS_FTELLO:
?C: This symbol, if defined, indicates that the ftello routine is
?C: available to ftell beyond 32 bits (useful for ILP32 hosts).
?C:.
?H:#$d_ftello HAS_FTELLO  /**/
?H:.
?LINT:set d_ftello
: see if ftello exists
set ftello d_ftello
eval $inlibc
case "$longsize" in
8) echo "(Your long is 64 bits, so you could use ftell.)" ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_ftello.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_shmat.U,v $
?RCS: Revision 3.0.1.3  1995/07/25  14:04:23  ram
?RCS: patch56: use findhdr to find <sys/shm.h>, to get the right one (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:18:56  ram
?RCS: patch27: added new symbol HAS_SHMAT_PROTOTYPE (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:54:18  ram
?RCS: patch23: new Shmat_t symbol to declare return type of shmat()
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:18  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_shmat shmattype
```

```
 d_shmatprototype: Inlibc cat +cc +ccflags \
 rm cppstdin cppflags cppminus Findhdr Setvar contains
?MAKE: -pick add $@ %<
?S:d_shmat:
?S: This variable conditionally defines the HAS_SHMAT symbol, which
?S: indicates to the C program that the shmat() routine is available.
?S:.
?S:shmattype:
?S: This symbol contains the type of pointer returned by shmat().
?S: It can be 'void *' or 'char *'.
?S:.
?S:d_shmatprototype:
?S: This variable conditionally defines the HAS_SHMAT_PROTOTYPE
?S: symbol, which indicates that sys/shm.h has a prototype for
?S: shmat.
?S:.
?C:HAS_SHMAT:
?C: This symbol, if defined, indicates that the shmat() routine is
?C: available to attach a shared memory segment to the process space.
?C:.
?C:Shmat_t:
?C: This symbol holds the return type of the shmat() system call.
?C: Usually set to 'void *' or 'char *'.
?C:.
?C:HAS_SHMAT_PROTOTYPE:
?C: This symbol, if defined, indicates that the sys/shm.h includes
?C: a prototype for shmat().  Otherwise, it is up to the program
 to
?C: guess one.  Shmat_t shmat _((int, Shmat_t, int)) is a good guess,
?C: but not always right so it should be emitted by the program only
?C: when HAS_SHMAT_PROTOTYPE is not defined to avoid conflicting defs.
?C:.
?H:#$d_shmat HAS_SHMAT  /**/
?H:#define Shmat_t $shmattype /**/
?H:#$d_shmatprototype HAS_SHMAT_PROTOTYPE /**/
?H:.
?LINT:set d_shmat d_shmatprototype
?T:xxx
: see if shmat exists
set shmat d_shmat
eval $inlibc
: see what shmat returns
case "$d_shmat" in
"$define")
 $cat >shmat.c <<'END'
#include <sys/shm.h>
void *shmat();
END
```

```
 if $cc $ccflags -c shmat.c >/dev/null 2>&1; then
  shmattype='void *'
 else
  shmattype='char *'
 fi
 echo "and it returns ($shmattype)." >&4
 : see if a prototype for shmat is available
 xxx=`./findhdr sys/shm.h`
 $cppstdin $cppflags $cppminus < $xxx > shmat.c 2>/dev/null
 if $contains 'shmat.*(' shmat.c >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 $rm -f shmat.[co]
 ;;
*)
 val="$undef"
 ;;
esac
set d_shmatprototype
eval $setvar
```

Found
 in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_shmat.U
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```
?RCS: $Id: d_vfork.U,v 3.0.1.6 1994/08/29 16:18:21 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_vfork.U,v $
?RCS: Revision 3.0.1.6  1994/08/29  16:18:21  ram
?RCS: patch32: set default to 'y' the first time
?RCS:
?RCS: Revision 3.0.1.5  1994/06/20  06:59:14  ram
?RCS: patch30: usevfork was not always properly set
?RCS:
?RCS: Revision 3.0.1.4  1994/05/13  15:20:56  ram
?RCS: patch27: modified to avoid spurious Whoa warnings (ADO)
```

```
?RCS:
?RCS: Revision 3.0.1.3  1994/05/06  14:59:09  ram
?RCS: patch23: now explicitly ask whether vfork() should be used
 (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1993/10/16  13:49:39  ram
?RCS: patch12: added magic for vfork()
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:06:57  ram
?RCS: patch10: removed automatic remapping of vfork on fork (WAD)
?RCS: patch10: added compatibility code for older config.sh (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_vfork usevfork d_pseudofork: Inlibc Myread Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_vfork:
?S: This variable conditionally defines the HAS_VFORK symbol, which
?S: indicates the vfork() routine is available.
?S:.
?S:usevfork:
?S: This variable is set to true when the user accepts to use vfork.
?S: It is set to false when no vfork is available or when the user
?S: explicitly requests not to use vfork.
?S:.
?S:d_pseudofork:
?S: This variable conditionally defines the HAS_PSEUDOFORK symbol,
?S: which indicates that an emulation of the fork routine is available.
?S:.
?C:HAS_VFORK (VFORK):
?C: This
 symbol, if defined, indicates that vfork() exists.
?C:.
?H:#$d_vfork HAS_VFORK /**/
?H:.
?C:HAS_PSEUDOFORK:
?C: This symbol, if defined, indicates that an emulation of the
?C: fork routine is available.
?C:.
?H:#$d_pseudofork HAS_PSEUDOFORK /**/
?H:.
?M:vfork: HAS_VFORK
?M:#ifndef HAS_VFORK
?M:#define vfork fork
?M:#endif
?M:.
?T:d_hvfork
```

```
: backward compatibility for d_hvfork
if test X$d_hvfork != X; then
 d_vfork="$d_hvfork"
 d_hvfork="
fi
?X:==========================
: see if there is a vfork
val="
set vfork val
eval $inlibc

d_pseudofork=$undef

: Ok, but do we want to use it. vfork is reportedly unreliable in
: perl on Solaris 2.x, and probably elsewhere.
case "$val" in
$define)
 echo " "
 case "$usevfork" in
 false) dflt='n';;
 *) dflt='y';;
 esac
 cat <<'EOM'

Perl can only use a vfork() that doesn't suffer from strict
restrictions on calling functions or modifying global data in
the child.  For example, glibc-2.1 contains such a vfork()
that is unsuitable.  If your system
 provides a proper fork()
call, chances are that you do NOT want perl to use vfork().

EOM
 rp="Do you still want to use vfork()?"
 . ./myread
 case "$ans" in
 y|Y) ;;
 *)
  echo "Ok, we won't use vfork()."
  val="$undef"
  ;;
 esac
 ;;
esac
?X:
?X: Only set it when final value is known to avoid spurious Whoa's
?X: Then set usevfork accordingly to the current value, for next run
?X:
set d_vfork
```

```
eval $setvar
case "$d_vfork" in
$define) usevfork='true';;
*) usevfork='false';;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_vfork.U
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```
?RCS: $Id: d_fchown.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_fchown.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_fchown: Inlibc
?MAKE: -pick add $@ %<
?S:d_fchown:
?S: This variable conditionally defines the HAS_FCHOWN symbol, which
?S: indicates to the C program that the fchown() routine is available
?S: to change ownership of opened files.
?S:.
?C:HAS_FCHOWN (FCHOWN):
?C: This symbol, if defined, indicates that the fchown routine is available
?C: to
 change ownership of opened files.  If unavailable, use chown().
?C:.
?H:#$d_fchown HAS_FCHOWN  /**/
?H:.
?LINT:set d_fchown
: see if fchown exists
set fchown d_fchown
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_fchown.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_closedir.U,v 3.0.1.3 1997/02/28 15:31:26 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_closedir.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:31:26  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:11:18  ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:21  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_closedir d_void_closedir: Inlibc i_dirent i_sysdir i_sysndir
 \
 i_systypes Compile Setvar rm_try run
?MAKE: -pick add $@ %<
?S:d_closedir:
?S: This variable conditionally defines HAS_CLOSEDIR if closedir() is
?S: available.
?S:.
?C:HAS_CLOSEDIR:
?C: This symbol, if defined, indicates that the closedir() routine is
?C: available.
?C:.
?H:#$d_closedir HAS_CLOSEDIR  /**/
?H:.
?S:d_void_closedir:
?S: This variable conditionally defines VOID_CLOSEDIR if closedir()
?S: does not return a value.
?S:.
?C:VOID_CLOSEDIR:
?C: This symbol, if defined, indicates that the closedir() routine
?C: does not return a value.
?C:.
?H:#$d_void_closedir VOID_CLOSEDIR  /**/
?H:.
```

```
?F:!try
?LINT:set d_closedir d_void_closedir
: see if closedir exists
set closedir d_closedir
eval $inlibc

@if VOID_CLOSEDIR || d_void_closedir
?X: The following contortions are designed so we can call closedir()
?X: and check whether it returns a value.  The contortions are designed
?X: to portably pick up the correct directory header, for those
?X: systems that support various mutually incompatible
 directory functions.
?X: This is from perl5's perl.h
case "$d_closedir" in
"$define")
 echo " "
 echo "Checking whether closedir() returns a status..." >&4
 cat > try.c <<EOM
#$i_dirent I_DIRENT  /**/
#$i_sysdir I_SYS_DIR  /**/
#$i_sysndir I_SYS_NDIR  /**/
#$i_systypes I_SYS_TYPES /**/

#if defined(I_SYS_TYPES)
#include <sys/types.h>
#endif
#if defined(I_DIRENT)
#include <dirent.h>
#else
#ifdef I_SYS_NDIR
#include <sys/ndir.h>
#else
#ifdef I_SYS_DIR
#include <sys/dir.h>
#endif
#endif
#endif
int main() { return closedir(opendir(".")); }
EOM
 set try
 if eval $compile_ok; then
  if $run ./try > /dev/null 2>&1 ; then
   echo "Yes, it does."
   val="$undef"
  else
   echo "No, it doesn't."
   val="$define"
  fi
```

```
 else
  echo "(I can't seem to compile the test program--assuming it doesn't)"
  val="$define"
 fi
 ;;
*)
 val="$undef";
 ;;
esac
set d_void_closedir
eval $setvar
$rm_try
@end
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_closedir.U
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```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sitearch.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:21:30  ram
?RCS: patch61: created
?RCS:
?MAKE:sitearch sitearchexp installsitearch: afs cat Getfile \
 Oldconfig Prefixit prefix test archname sitelib
?MAKE: -pick add $@ %<
?Y:TOP
?S:sitearch:
?S: This variable contains the eventual value of the SITEARCH symbol,
?S: which is the name of the private library for this package.  It may
?S: have a ~ on the front. It is up to the makefile to eventually create
?S: this
 directory while performing installation (with ~ substitution).
?S:.
?S:sitearchexp:
?S: This variable is the ~name expanded version of sitearch, so that you
?S: may use it directly in Makefiles or shell scripts.
```

```
?S:.
?S:installsitearch:
?S: This variable is really the same as sitearchexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?C:SITEARCH:
?C: This symbol contains the name of the private library for this package.
?C: The library is private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.  The program
?C: should be prepared to do ~ expansion.
?C: The standard distribution will put nothing in this directory.
?C: Individual sites may place their own extensions and modules in
?C: this directory.
?C:.
?C:SITEARCH_EXP:
?C: This symbol contains the ~name expanded version of SITEARCH, to be used
?C: in programs that are not prepared to deal
 with ~ expansion at run-time.
?C:.
?H:#define SITEARCH "$sitearch"  /**/
?H:#define SITEARCH_EXP "$sitearchexp"  /**/
?H:.
?T:xxx
: determine where site specific architecture-dependent libraries go.
xxx=`echo $sitelib/$archname | sed 's!^$prefix!!'`
: xxx is usually lib/site_perl/archname.
set sitearch sitearch none
eval $prefixit
case "$sitearch" in
") dflt="$sitelib/$archname" ;;
*) dflt="$sitearch" ;;
esac
$cat <<EOM

The installation process will also create a directory for
architecture-dependent site-specific extensions and modules.

EOM
fn=nd~+
rp='Pathname for the site-specific architecture-dependent library files?'
. ./getfile
if $test "X$sitearchexp" != "X$ansexp"; then
 installsitearch="
fi
sitearch="$ans"
sitearchexp="$ansexp"
if $afs; then
```

```
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
private files reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case
 "$installsitearch" in
 ") dflt=`echo $sitearchexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installsitearch";;
 esac
 fn=de~
 rp='Where will private files be installed?'
 . ./getfile
 installsitearch="$ans"
else
 installsitearch="$sitearchexp"
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/sitearch.U
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```
?RCS: $Id: sh.U,v 3.0.1.1 1997/02/28 16:20:13 ram Exp $
?RCS:
?RCS: Copyright (c) 1997, Chip Salzenberg
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sh.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:20:13  ram
?RCS: patch61: created
?RCS:
?MAKE:sh targetsh: Head
?MAKE: -pick wipe $@ %<
?S:sh:
?S: This variable contains the full pathname of the shell used
?S: on this system to execute Bourne shell scripts.  Usually, this will be
?S: /bin/sh, though it's possible that some systems will have /bin/ksh,
?S: /bin/pdksh, /bin/ash, /bin/bash, or even something such as
?S: D:/bin/sh.exe.
```

```
?S: This
 unit comes before Options.U, so you can't set sh with a -D
?S: option, though you can override this (and startsh)
?S: with -O -Dsh=/bin/whatever -Dstartsh=whatever
?S:.
?S:targetsh:
?S: If cross-compiling, this variable contains the location of sh on the
?S: target system.
?S: If not, this will be the same as $sh.
?S:.
?C:SH_PATH:
?C: This symbol contains the full pathname to the shell used on this
?C: on this system to execute Bourne shell scripts.  Usually, this will be
?C: /bin/sh, though it's possible that some systems will have /bin/ksh,
?C: /bin/pdksh, /bin/ash, /bin/bash, or even something such as
?C: D:/bin/sh.exe.
?C:.
?H:#define SH_PATH "$targetsh"  /**/
?H:.
?T:xxx try pth p SYSTYPE
?LINT:extern maintloc maintname _exe
?X:
?X: Be quiet unless something unusual happens because this gets
?X: loaded up even before options are processed.
?X: Can't use ./loc because that depends on startsh, which, in turn
?X: depends on this unit.
?X:
: Find the basic shell for
 Bourne shell scripts
case "$sh" in
")
?X: SYSTYPE is for some older MIPS systems.
?X: I do not know if it is still needed.
 case "$SYSTYPE" in
 *bsd*|sys5*) xxx="/$SYSTYPE/bin/sh";;
 *) xxx='/bin/sh';;
 esac
 if test -f "$xxx"; then
  sh="$xxx"
 else
  : Build up a list and do a single loop so we can 'break' out.
  pth=`echo $PATH | sed -e "s/$p_/ /g"`
  for xxx in sh bash ksh pdksh ash; do
   for p in $pth; do
    try="$try ${p}/${xxx}"
   done
  done
  for xxx in $try; do
```

```
   if test -f "$xxx"; then
    sh="$xxx";
    break
   elif test "X$_exe" != X -a -f "$xxx$_exe"; then
    sh="$xxx";
    break
   elif test -f "$xxx.exe"; then
    sh="$xxx";
    break
   fi
  done
 fi
 ;;
esac

?X: fd 4 isn't open yet...
case "$sh" in
") cat >&2 <<EOM
$me:  Fatal Error:  I can't find a Bourne Shell anywhere.

Usually it's in /bin/sh.  How did you even get this far?
Please report this issue at <$maintloc>
and we'll try to straighten this all out.
EOM
 exit 1
 ;;
esac

: When cross-compiling we
 need to separate the sh-to-run-Configure-with from the sh-to-use-in-Perl
: default both to the same thing, cross-compilers can then set targetsh differently if they like
targetsh=$sh

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/sh.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: i_libutil.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_libutil: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_libutil:
```

```
?S: This variable conditionally defines the I_LIBUTIL symbol, and indicates
?S: whether a C program should include <libutil.h>.
?S:.
?C:I_LIBUTIL:
?C: This symbol, if defined, indicates that <libutil.h> exists and
?C: should be included.
?C:.
?H:#$i_libutil I_LIBUTIL  /**/
?H:.
?LINT:set i_libutil
: see if this is a libutil.h system
set libutil.h i_libutil
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_libutil.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Cygnus Support
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Tom Tromey <tromey@cygnus.com>
?RCS:
?RCS: $Log: src.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:23:54  ram
?RCS: patch61: created
?RCS:
?MAKE:src +rsrc: Options package contains
?MAKE: -pick add $@ %<
?Y:TOP
?S:src (srcdir):
?S: This variable holds the (possibly relative) path of the package source.
?S: It is up to the Makefile to use this variable and set VPATH accordingly
?S: to find the sources remotely.  Use $pkgsrc to have an absolute path.
?S:.
?S:rsrc
 (relsrcdir):
?S: This variable holds a potentially relative path to the package
?S: source.  The contents are correct for the configuration environment,
```

```
?S: i.e. there might be an extra .. prepended to get out of the UU dir.
?S: Configure units should use this, not the src variable.
?S:.
: Find the path to the source tree
case "$src" in
") case "$0" in
   */*) src=`echo $0 | sed -e 's%/[^/][^/]*$%%'`
        case "$src" in
  /*) ;;
  .) ;;
        *) src=`cd ../$src && pwd` ;;
  esac
        ;;
   *)   src='.';;
   esac;;
esac
case "$src" in
") src=/
 rsrc=/
 ;;
/*) rsrc="$src";;
*) rsrc="../$src";;
esac
?X:
?X: Now check whether we have found the right source tree (i.e. the one for the
?X: package we're about to configure). The original unit from Tom Tromey forced
?X: the user to pick a unique file from his distribution, and we were merely
?X: checking the existence of that file. I prefer to rely on Configure (which
?X: we know *is* present since this unit is
 part of it!) and look for the
?X: definition of the package variable, making sure it's the same as ours.
?X: If it matches, we know we found the right source tree. -- RAM, 15/03/96
?X:
if test -f $rsrc/Configure && \
 $contains "^package='$package'\$" $rsrc/Configure >/dev/null 2>&1
then
  : found it, so we are ok.
else
?X: Otherwise try "." and up to 4 parent directories...
?X: Note that we prepend a ".." to get out of the configuration environment.
 rsrc="
 for src in . .. ../.. ../../.. ../../../..; do
  if test -f ../$src/Configure && \
   $contains "^package=$package$" ../$src/Configure >/dev/null 2>&1
  then
   rsrc=../$src
   break
  fi
```

```
 done
fi
case "$rsrc" in
")
 cat <<EOM >&4

Sorry, I can't seem to locate the source dir for $package.  Please start
Configure with an explicit path -- i.e. /some/path/Configure.

EOM
 exit 1
 ;;
?X: Don't echo anything if the sources are in . -- they should know already ;-)
?X: In that case, rsrc is ../. since we lookup from within UU
../.) rsrc='..';;
*)
 echo
 " "
 echo "Sources for $package found in \"$src\"." >&4
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/src.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_wait3.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_wait3.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_wait3: Inlibc
?MAKE: -pick add $@ %<
?S:d_wait3:
?S: This variable conditionally defines the HAS_WAIT3 symbol, which
?S: indicates to the C program that the wait3() subroutine exists.
?S:.
?C:HAS_WAIT3:
```

```
?C: This symbol, if defined, indicates that the wait3() subroutine
?C: exists.
?C:.
?H:#$d_wait3 HAS_WAIT3 /**/
?H:.
?LINT:set d_wait3
:
 see if 'wait3()' exists
set wait3 d_wait3
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_wait3.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: orderlib.U,v 3.0.1.4 1997/02/28 16:18:18 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: orderlib.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  16:18:18  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: likewise for .o replaced by $_o
?RCS: patch61: now uses the ar located by Loc.U
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:33:04  ram
?RCS: patch45: allows hint files to specify their own value for 'ranlib'
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:26:48  ram
?RCS: patch36: now performs a real small compile for accurate
 checks (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:31:17  ram
?RCS: patch32: use cc variable instead of hardwired 'cc' in 1st compile
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:orderlib ranlib: Loc ar cat test rm +cc +ccflags +ldflags +libs i_stdlib _a _o run
?MAKE: -pick add $@ %<
?S:orderlib:
```

```
?S: This variable is "true" if the components of libraries must be ordered
?S: (with `lorder $* | tsort`) before placing them in an archive.  Set to
?S: "false" if ranlib or ar can generate random libraries.
?S:.
?S:ranlib:
?S: This variable is set to the pathname of the ranlib program, if it is
?S: needed to generate random libraries.  Set to ":" if ar can generate
?S: random libraries or if random libraries are not supported
?S:.
?F:!foobar
: see if ar generates random libraries by itself
echo " "
echo "Checking how to generate random libraries on your machine..." >&4
?X: Some systems (like MIPS) complain when running
 ar... Others like Ultrix
?X: need an explicit 'ar ts' to add the table of contents.
?X: Still others like Linux run ar ts successfully, but still need ranlib.
?X: This set of tests seems the minimum necessary to check out Linux.
?X: We need to explicitly put the entries in out-of-order so that Sun's ld
?X: will fail.  (Otherwise it complains, but gives an exit status of 0.)
echo 'int bar1() { return bar2(); }' > bar1.c
echo 'int bar2() { return 2; }' > bar2.c
$cat > foo.c <<EOP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() { printf("%d\n", bar1()); exit(0); }
EOP
$cc $ccflags -c bar1.c >/dev/null 2>&1
$cc $ccflags -c bar2.c >/dev/null 2>&1
$cc $ccflags -c foo.c >/dev/null 2>&1
$ar rc bar$_a bar2$_o bar1$_o >/dev/null 2>&1
if $cc -o foobar $ccflags $ldflags foo$_o bar$_a $libs > /dev/null 2>&1 &&
 $run ./foobar >/dev/null 2>&1; then
 echo "$ar appears to generate random libraries itself."
 orderlib=false
 if [ "X$ranlib" = "X" ]; then
     ranlib=":"
 fi
elif
 $ar s bar$_a >/dev/null 2>&1 &&
 $cc -o foobar $ccflags $ldflags foo$_o bar$_a $libs > /dev/null 2>&1 &&
 $run ./foobar >/dev/null 2>&1; then
  echo "a table of contents needs to be added with '$ar s'."
  orderlib=false
  ranlib="$ar s"
elif $ar ts bar$_a >/dev/null 2>&1 &&
```

```
 $cc -o foobar $ccflags $ldflags foo$_o bar$_a $libs > /dev/null 2>&1 &&
 $run ./foobar >/dev/null 2>&1; then
  echo "a table of contents needs to be added with '$ar ts'."
  orderlib=false
  ranlib="$ar ts"
else
?X: Allow hints to specify their own ranlib "script". For instance, on
?X: some NeXT machines, the timestamp put by ranlib is not correct, and this
?X: may raise tedious recompiles for nothing. Therefore, NeXT may add the
?X: ranlib='sleep 5; /bin/ranlib' line in their hints to "fix" that.
?X: (reported by Andreas Koenig <k@franz.ww.tu-berlin.de>)
 case "$ranlib" in
 :) ranlib=";;
 ")
  ranlib=`./loc ranlib X /usr/bin /bin /usr/local/bin`
  $test -f $ranlib || ranlib="
  ;;
 esac
 if $test -n "$ranlib";
 then
  echo "your system has '$ranlib'; we'll use that."
  orderlib=false
 else
  echo "your system doesn't seem to support random libraries"
  echo "so we'll use lorder and tsort to order the libraries."
  orderlib=true
  ranlib=":"
 fi
fi
$rm -f foo* bar*
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/orderlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Chk_whoami.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Chk_whoami.U,v $
?RCS: Revision 3.0  1993/08/18  12:04:46  ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit makes sure we don't try to include whoami.h if uname() exists.
?X:
?MAKE:Chk_whoami: d_uname i_whoami
?MAKE: -pick add $@ %<
?LINT:change i_whoami
: weed out incompatibilities
case "$d_uname" in
 "$define") i_whoami="$undef" ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Chk_whoami.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_varhdr.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:54:42  ram
?RCS: patch61: varargs script now starts with leading "startsh"
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:21:02  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/13  15:26:05  ram
?RCS: patch27: this unit now supersedes old i_stdarg.U and i_varargs.U
?RCS: patch27: modified to avoid spurious Whoa warnings (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:49  ram
?RCS: Baseline for
 dist 3.0 netwide release.
?RCS:
?MAKE:i_stdarg i_varargs i_varhdr: cat +cc +ccflags rm test Setvar \
 Findhdr Warn startsh _o
?MAKE: -pick add $@ %<
?S:i_stdarg:
?S: This variable conditionally defines the I_STDARG symbol, which
```

```
?S: indicates to the C program that <stdarg.h> exists and should
?S: be included.
?S:.
?S:i_varargs:
?S: This variable conditionally defines I_VARARGS, which indicates
?S: to the C program that it should include <varargs.h>.
?S:.
?S:i_varhdr:
?S: Contains the name of the header to be included to get va_dcl definition.
?S: Typically one of varargs.h or stdarg.h.
?S:.
?C:I_STDARG:
?C: This symbol, if defined, indicates that <stdarg.h> exists and should
?C: be included.
?C:.
?C:I_VARARGS:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <varargs.h>.
?C:.
?H:#$i_stdarg I_STDARG  /**/
?H:#$i_varargs I_VARARGS /**/
?H:.
?W:%<:va_dcl
?F:!varargs
?T:valstd
?LINT:set i_stdarg i_varargs
?X:
?X: Don't use setvar because the varags test
 below might override these.
?X: Actually, the messages here are just informative. We don't wish to set
?X: i_varargs or i_stdarg to their final value before knowing which of the
?X: two we'll include.
?X:
: see if stdarg is available
echo " "
if $test `./findhdr stdarg.h`; then
 echo "<stdarg.h> found." >&4
 valstd="$define"
else
 echo "<stdarg.h> NOT found." >&4
 valstd="$undef"
fi

: see if varags is available
echo " "
if $test `./findhdr varargs.h`; then
 echo "<varargs.h> found." >&4
else
```

```
 echo "<varargs.h> NOT found, but that's ok (I hope)." >&4
fi

?X:
?X: if you have stdarg.h, you need to support prototypes to actually use it;
?X: but if stdarg.h exists and the compiler doesn't support prototypes (for some
?X: bizarre reason), we'll fall back to varargs.h anyway so it's not so bad.
?X:
: set up the varargs testing programs
$cat > varargs.c <<EOP
#ifdef I_STDARG
#include <stdarg.h>
#endif
#ifdef I_VARARGS
#include <varargs.h>
#endif

#ifdef I_STDARG
int f(char *p, ...)
#else
int
 f(va_alist)
va_dcl
#endif
{
 va_list ap;
#ifndef I_STDARG
 char *p;
#endif
#ifdef I_STDARG
 va_start(ap,p);
#else
 va_start(ap);
 p = va_arg(ap, char *);
#endif
 va_end(ap);
}
EOP
$cat > varargs <<EOP
$startsh
if $cc -c $ccflags -D\$1 varargs.c >/dev/null 2>&1; then
 echo "true"
else
 echo "false"
fi
$rm -f varargs$_o
EOP
chmod +x varargs
```

```
: now check which varargs header should be included
echo " "
i_varhdr=''
case "$valstd" in
"$define")
 if `./varargs I_STDARG`; then
  val='stdarg.h'
 elif `./varargs I_VARARGS`; then
  val='varargs.h'
 fi
 ;;
*)
 if `./varargs I_VARARGS`; then
  val='varargs.h'
 fi
 ;;
esac
case "$val" in
'')
 ./warn "I could not find the definition for va_dcl... You have problems..."
 val="$undef"; set i_stdarg; eval $setvar
 val="$undef"; set i_varargs; eval $setvar
 ;;
*)
 set i_varhdr
 eval $setvar
 case "$i_varhdr" in
 stdarg.h)
  val="$define"; set i_stdarg; eval $setvar
  val="$undef"; set i_varargs; eval $setvar
  ;;
 varargs.h)
  val="$undef"; set i_stdarg;
 eval $setvar
  val="$define"; set i_varargs; eval $setvar
  ;;
 esac
 echo "We'll include <$i_varhdr> to get va_dcl definition." >&4;;
esac
$rm -f varargs*
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_varhdr.U
No license file was found, but licenses were detected in source scan.

?RCS: Id

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Typedef.U,v $
?RCS: Revision 3.0.1.3  1995/07/25  13:42:07  ram
?RCS: patch56: added backslash escapes within evals to prevent space problems
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:01:16  ram
?RCS: patch36: don't clobber visible 'val' variable, use 'varval' instead
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:05:14  ram
?RCS: patch32: created
?RCS:
?X:
?X: This unit checks for the definition of a given typedef.
?X:
?X: To use it, say:
?X: set typedef val_t default [includes]
?X: eval $typedef
?X:
?MAKE:Typedef:
 cppstdin cppminus cppflags rm contains Oldconfig
?MAKE: -pick add $@ %<
?F:!temp.c
?LINT:define typedef
?V:typedef
?S:typedef:
?S: This shell variable is used internally by Configure to check
?S: wether a given typedef is defined or not. A typical use is:
?S:  set typedef val_t default [includes]
?S:  eval $typedef
?S: That will return val_t set to default if the typedef was not found,
?S: to typedef otherwise. If no includes are specified, look in sys/types.h.
?S:.
?T:type var def inclist varval inc
: define an is-a-typedef? function
typedef='type=$1; var=$2; def=$3; shift; shift; shift; inclist=$@;
case "$inclist" in
"") inclist="sys/types.h";;
esac;
eval "varval=\$$var";
case "$varval" in
```

```
"")
 $rm -f temp.c;
 for inc in $inclist; do
  echo "#include <$inc>" >>temp.c;
 done;
 $cppstdin $cppflags $cppminus < temp.c >temp.E 2>/dev/null;
 if $contains $type temp.E >/dev/null 2>&1; then
  eval "$var=\$type";
 else
  eval "$var=\$def";
 fi;
 $rm -f temp.?;;
*) eval
 "$var=\$varval";;
esac'
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Typedef.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_getspnam: Inlibc
?MAKE: -pick add $@ %<
?S:d_getspnam:
?S: This variable conditionally defines HAS_GETSPNAM if getspnam() is
?S: available to retrieve SysV shadow password entries by name.
?S:.
?C:HAS_GETSPNAM:
?C: This symbol, if defined, indicates that the getspnam system call is
?C: available to retrieve SysV shadow password entries by name.
?C:.
?H:#$d_getspnam HAS_GETSPNAM  /**/
?H:.
?LINT:set d_getspnam
: see if getspnam exists
set getspnam d_getspnam
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_getspnam.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_llrint: Inlibc
?MAKE: -pick add $@ %<
?S:d_llrint:
?S: This variable conditionally defines the HAS_LLRINT symbol, which
?S: indicates to the C program that the llrint() routine is available
?S: to return the long long value closest to a double (according
?S: to the current rounding mode).
?S:.
?C:HAS_LLRINT:
?C: This symbol, if defined, indicates that the llrint routine is
?C: available to return the long long value closest to a double
?C: (according to the current rounding mode).
?C:.
?H:#$d_llrint HAS_LLRINT  /**/
?H:.
?LINT:set d_llrint
: see if llrint exists
set llrint d_llrint
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_llrint.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_inetd.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_inetd.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:23  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_inetd: cat test package Myread Setvar
```

```
?MAKE: -pick add $@ %<
?S:d_inetd:
?S: This symbol conditionally defines USE_INETD which indicates to the C
?S: program that the initial socket connection will be done via inetd.
?S:.
?C:USE_INETD (INETD):
?C: This symbol if defined indicates to the C program that inetd will be
?C: in charge of the
 initial socket connection. The file descriptors 0 and
?C: 1 have been dup()ed from the original connected socket descriptor and
?C: are ready for send() and recv().
?C:.
?H:#$d_inetd USE_INETD  /**/
?H:.
?LINT:set d_inetd
: ask whether initial socket connection is to be done via inetd
echo " "
dflt=n
case "$d_inetd" in
") if $test -f /etc/inetd.conf; then
  $cat <<EOM
Your system provides a so called "Internet super-server", the inetd daemon.
Network services like ftp or rlogin are usually handled via ftpd and rlogind
daemons. Without inetd, these daemons must always be running for the service
to be on. On the contrary, inetd listens to specific ports defined in file
/etc/inetd.conf and will run the appropriate daemon upon request. This scheme
avoids eating up the process table and memory with useless daemons.

I can set up things so that internet connections for $package will be done
using inetd, in which case you will have to edit /etc/inetd.conf to add some
specific informations.

EOM
  dflt=y
 else
  $cat
 <<EOM
I do not see any trace of a configuration file for inetd, hence I assume your
system does not support the so called "Internet super-server". This means
$package will need to have a daemon process running on this machine to allow
network connections.

EOM
 fi;;
*) case "$d_inetd" in
 "$define") dflt=y;;
 esac;;
esac
```

```
rp='Do you wish to use inetd for network connections?'
. ./myread
val="$undef"
case "$ans" in
y*|Y*) val="$define";;
esac
set d_inetd
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_inetd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vaproto.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Orginal Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: vaproto.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:17:16  ram
?RCS: patch16: definition of _V now appears only when needed
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:59  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:vaproto: prototype i_stdarg Setvar
?MAKE: -pick add $@ %<
?S:vaproto:
?S: This variable conditionally defines CAN_VAPROTO on systems supporting
?S: prototype
 declaration of functions with a variable number of
?S: arguments. See also prototype.
?S:.
?C:CAN_VAPROTO ~ %<:
?C: This variable is defined on systems supporting prototype declaration
?C: of functions with a variable number of arguments.
?C:.
?C:_V:
?C: This macro is used to declare function parameters in prototypes for
?C: functions with a variable number of parameters. Use double parentheses.
```

```
?C: For example:
?C:
?C:  int printf _V((char *fmt, ...));
?C:
?C: Remember to use the plain simple _() macro when declaring a function
?C: with no variable number of arguments, since it might be possible to
?C: have a non-effect _V() macro and still get prototypes via _().
?C:.
?H:?%<:#$vaproto CAN_VAPROTO /**/
?H:?_V:#ifdef CAN_VAPROTO
?H:?_V:#define _V(args) args
?H:?_V:#else
?H:?_V:#define _V(args) ()
?H:?_V:#endif
?H:.
?W:%<:_V
?LINT:set vaproto
: see if prototypes support variable argument declarations
echo " "
case "$prototype$i_stdarg" in
$define$define)
 echo "It appears we'll
 be able to prototype varargs functions." >&4
 val="$define"
 ;;
*)
 echo "Too bad... We won't be using prototyped varargs functions..." >&4
 val="$undef"
 ;;
esac
set vaproto
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/vaproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_mkstemp.U,v 3.0.1.1 1994/08/29 16:11:57 ram Exp $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
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?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_mkstemp.U,v $
```

```
?RCS:
?MAKE:d_mkstemp: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkstemp:
?S: This variable conditionally defines the HAS_MKSTEMP symbol, which
?S: indicates to the C program that the mkstemp() routine is available
?S: to exclusively create and open a uniquely named temporary file.
?S:.
?C:HAS_MKSTEMP :
?C: This symbol, if defined, indicates that the mkstemp routine is
?C: available to exclusively create and open a uniquely named
?C: temporary file.
?C:.
?H:#$d_mkstemp HAS_MKSTEMP  /**/
?H:.
?LINT:set d_mkstemp
: see if mkstemp exists
set mkstemp d_mkstemp
eval
 $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_mkstemp.U
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```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fsync: Inlibc
?MAKE: -pick add $@ %<
?S:d_fsync:
?S: This variable conditionally defines the HAS_FSYNC symbol, which
?S: indicates to the C program that the fsync() routine is available.
?S:.
?C:HAS_FSYNC:
?C: This symbol, if defined, indicates that the fsync routine is
?C: available to write a file's modified data and attributes to
?C: permanent storage.
?C:.
?H:#$d_fsync HAS_FSYNC  /**/
?H:.
?LINT:set d_fsync
: see if fsync exists
```

```
set fsync d_fsync
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fsync.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_time.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:07:43  ram
?RCS: patch56: typo fix, sytem -> system
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:16:38  ram
?RCS: patch36: now uses new Typedef unit to compute type information (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X: Maybe <sys/types.h> should be included?
?X:INC: i_systypes
?MAKE:d_time timetype: Csym Setvar Findhdr Myread Typedef
?MAKE: -pick add $@ %<
?S:d_time:
?S: This
 variable conditionally defines the HAS_TIME symbol, which indicates
?S: that the time() routine exists.  The time() routine is normally
?S: provided on UNIX systems.
?S:.
?S:timetype:
?S: This variable holds the type returned by time(). It can be long,
?S: or time_t on BSD sites (in which case <sys/types.h> should be
?S: included). Anyway, the type Time_t should be used.
?S:.
?C:HAS_TIME (TIMER):
?C: This symbol, if defined, indicates that the time() routine exists.
?C:.
?C:Time_t (TIMETYPE):
?C: This symbol holds the type returned by time(). It can be long,
```

```
?C: or time_t on BSD sites (in which case <sys/types.h> should be
?C: included).
?C:.
?H:#$d_time HAS_TIME  /**/
?H:#define Time_t $timetype  /* Time type */
?H:.
?LINT:set d_time
: see if time exists
echo " "
if set time val -f d_time; eval $csym; $val; then
 echo 'time() found.' >&4
 val="$define"
 set time_t timetype long stdio.h sys/types.h
 eval $typedef
 dflt="$timetype"
 echo " "
 rp="What type is returned by time() on this
 system?"
 . ./myread
 timetype="$ans"
else
 echo 'time() not found, hope that will do.' >&4
 val="$undef"
 timetype='int';
fi
set d_time
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_time.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_syscallproto: Hasproto i_unistd
?MAKE: -pick add $@ %<
?S:d_syscallproto:
?S: This variable conditionally defines the HAS_SYSCALL_PROTO symbol,
?S: which indicates to the C program that the system provides
```

```
?S: a prototype for the syscall() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_SYSCALL_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the syscall() function.  Otherwise, it is up
?C: to the program to supply one.  Good guesses are
?C:  extern
 int syscall(int,  ...);
?C:  extern int syscall(long, ...);
?C:.
?H:#$d_syscallproto HAS_SYSCALL_PROTO /**/
?H:.
?LINT:set d_syscallproto
: see if prototype for syscall is available
echo " "
set d_syscallproto syscall $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_syscallproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_shm.U,v 3.0 1993/08/18 12:07:17 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_shm.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_shm: test d_shmctl d_shmget d_shmat d_shmdt Setvar Findhdr osname
?MAKE: -pick add $@ %<
?S:d_shm:
?S: This variable conditionally defines the HAS_SHM symbol, which
?S: indicates that the entire shm*(2) library is present.
?S:.
?C:HAS_SHM:
?C: This symbol, if defined, indicates that the entire shm*(2) library is
?C: supported.
?C:.
```

```
?H:#$d_shm HAS_SHM  /**/
?H:.
?T:h_shm
?LINT:set
 d_shm
: see how much of the 'shm*(2)' library is present.
h_shm=true
echo " "
case "$d_shmctl$d_shmget$d_shmat$d_shmdt" in
*"$undef"*) h_shm=false;;
esac
case "$osname" in
freebsd)
   case "`ipcs 2>&1`" in
   "SVID shared memory"*"not configured"*)
 echo "Your $osname does not have the shm*(2) configured." >&4
       h_shm=false
 val="$undef"
 set shmctl d_shmctl
 eval $setvar
 set shmget d_shmget
 eval $setvar
 set shmat d_shmat
 eval $setvar
 set shmdt d_shmdt
 eval $setvar
 ;;
   esac
   ;;
esac
: we could also check for sys/ipc.h ...
if $h_shm && $test `./findhdr sys/shm.h`; then
 echo "You have the full shm*(2) library." >&4
 val="$define"
else
 echo "You don't have the full shm*(2) library." >&4
 val="$undef"
fi
set d_shm
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_shm.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: pidtype.U,v 3.0.1.1 1994/08/29 16:31:27 ram Exp $
?RCS:

```
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: pidtype.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:31:27  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:33  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:pidtype: Myread Typedef
?MAKE: -pick add $@ %<
?S:pidtype:
?S: This variable defines PIDTYPE to be something like pid_t, int,
?S: ushort, or whatever type is used to declare process ids in the kernel.
?S:.
?C:Pid_t (PIDTYPE):
?C: This
 symbol holds the type used to declare process ids in the kernel.
?C: It can be int, uint, pid_t, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Pid_t $pidtype  /* PID type */
?H:.
?LINT: set pidtype
: see what type pids are declared as in the kernel
rp="What is the type of process ids on this system?"
set pid_t pidtype int stdio.h sys/types.h
eval $typedef_ask
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/pidtype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysresrc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysresrc.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:34  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Look wether <sys/resource.h> needs to be included
?X:
?MAKE:i_sysresrc: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysresrc:
?S: This variable conditionally defines the I_SYS_RESOURCE symbol,
?S: and indicates whether a C program should include <sys/resource.h>.
?S:.
?C:I_SYS_RESOURCE (I_SYSRESOURCE):
?C: This symbol, if defined, indicates
 to the C program that it should
?C: include <sys/resource.h>.
?C:.
?H:#$i_sysresrc I_SYS_RESOURCE  /**/
?H:.
?LINT:set i_sysresrc
: see if sys/resource.h has to be included
set sys/resource.h i_sysresrc
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sysresrc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: cf_name.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: cf_name.U,v $
?RCS: Revision 3.0.1.2  1994/05/06  14:29:36  ram
?RCS: patch23: fixed user name computation from /etc/passwd in bsd systems
?RCS:
```

```
?RCS: Revision 3.0.1.1  1994/01/24  14:05:11  ram
?RCS: patch16: created
?RCS:
?RCS:
?MAKE:+cf_name: cf_by passcat Filexp nametype cat test
?MAKE: -pick add $@ %<
?S:cf_name:
?S: Full name of the person who ran the Configure script and
 answered the
?S: questions. This can be used by units that require the user's full name.
?S: This variable is for internal use only.
?S:.
?T:xxx fn NAME
: figure out their full name
case "$NAME" in
") case "$nametype" in
 other)
  fn=`./filexp ~/.fullname`
  xxx=usg
  $test -f $fn && xxx=other
  ;;
 *)
  xxx="$nametype"
  ;;
 esac

 case "$xxx" in
 bsd)
  cf_name=`$passcat | grep "^$cf_by:" | \
   sed -e 's/^[^:]*:[^:]*:[^:]*:[^:]*:\([^:]*\):.*/\1/' \
   -e 's/,.*//'`
  ;;
   usg)
  cf_name=`$passcat | grep "^$cf_by:" | \
   sed -e 's/^[^:]*:[^:]*:[^:]*:[^:]*:\([^:]*\):.*/\1/' \
   -e 's/[^-]*-\(.*\)(.*)/\1/'`
  ;;
 *)
  cf_name=`$cat $fn`
  ;;
 esac
 ;;
*)
 cf_name="$NAME"
 ;;
esac
?X:
?X: In the original unit, Graham asked for the user name, in case the above
```

```
?X: code was unable to figure it out correctly. Since now cf_name has been
?X: made an internal variable only (i.e. it is not saved in config.sh), letting
?X: the user override the computed default each time would be a pain.
?X:
 Therefore, I have decided to trust the above code to get it right, and for
?X: those rare cases where it will fail, too bad :-) --RAM.
?X:
echo " "
echo "Pleased to meet you, $cf_name."
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/cf_name.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_mbstowcs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_mbstowcs.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:29  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_mbstowcs: Inlibc
?MAKE: -pick add $@ %<
?S:d_mbstowcs:
?S: This variable conditionally defines the HAS_MBSTOWCS symbol, which
?S: indicates to the C program that the mbstowcs() routine is available
?S: to convert a multibyte string into a wide character string.
?S:.
?C:HAS_MBSTOWCS (MBSTOWCS):
?C: This symbol, if defined, indicates
 that the mbstowcs routine is
?C: available to convert a multibyte string into a wide character string.
?C:.
?H:#$d_mbstowcs HAS_MBSTOWCS  /**/
?H:.
?LINT:set d_mbstowcs
: see if mbstowcs exists
set mbstowcs d_mbstowcs
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_mbstowcs.U
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```
?RCS: $Id: d_flexfnam.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_flexfnam.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_flexfnam: cat rm test Setvar
?MAKE: -pick add $@ %<
?S:d_flexfnam:
?S: This variable conditionally defines the FLEXFILENAMES symbol, which
?S: indicates that the system supports filenames longer than 14 characters.
?S:.
?C:FLEXFILENAMES:
?C: This symbol, if defined, indicates that the system supports filenames
?C: longer than 14
 characters.
?C:.
?H:#$d_flexfnam FLEXFILENAMES  /**/
?H:.
?T:first
?LINT:set d_flexfnam
: see if we can have long filenames
echo " "
?X:
?X: We have to test in both /tmp and . because of NFS (remote server may allow
?X: long filenames while the local filesystem cannot support them). If at least
?X: one of those file systems cannot support long filenames, then we assume the
?X: whole system can't.
?X:
first=123456789abcdef
$rm -f $first
if (echo hi >$first) 2>/dev/null; then
 if $test -f 123456789abcde; then
  echo 'You cannot have filenames longer than 14 characters.  Sigh.' >&4
  val="$undef"
```

```
 else
  echo 'You can have filenames longer than 14 characters.'>&4
  val="$define"
 fi
else
 $cat <<'EOM'
You can't have filenames longer than 14 chars.
You can't even think about them!
EOM
 val="$undef"
fi
set d_flexfnam
eval $setvar
$rm -rf 123456789abcde*
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_flexfnam.U
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```
?RCS: $Id: d_linuxstd.U 1 2006-08-24 12:32:52Z rmanfredi $
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_linuxstd.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:14:05  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_linuxstd: d_stdstdio cppstdin cppflags cppminus \
 contains rm Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_linuxstd:
?S: This variable conditionally defines USE_LINUX_STDIO if this system
?S: has a FILE structure declaring _IO_read_base, _IO_read_ptr,
?S: and _IO_read_end
 in stdio.h.
?S:.
?C:USE_LINUX_STDIO:
?C: This symbol is defined if this system has a FILE structure declaring
?C: _IO_read_base, _IO_read_ptr, and _IO_read_end in stdio.h.
```

```
?C:.
?H:#$d_linuxstd USE_LINUX_STDIO  /**/
?H:.
?T:xxx
?LINT:set d_linuxstd
: see if stdio is like that in linux
case "$d_stdstdio" in
"$undef")
 echo " "
 xxx=`./findhdr stdio.h`
 $cppstdin $cppflags $cppminus < "$xxx" > stdio.E
 if $contains 'char.*_IO_read_base' stdio.E >/dev/null 2>&1 && \
  $contains '_IO_read_ptr' stdio.E >/dev/null 2>&1 && \
  $contains '_IO_read_end' stdio.E >/dev/null 2>&1 ; then
   echo "Your stdio looks like linux." >&4
   val="$define"
 else
  echo "You don't have linux stdio, either." >&4
  val="$undef"
 fi
 $rm -f stdio.E
 ;;
*) val="$undef" ;;
esac

set d_linuxstd
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_linuxstd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_truncl: Inlibc
?MAKE: -pick add $@ %<
?S:d_truncl:
?S: This variable conditionally defines the HAS_TRUNCL symbol, which
?S: indicates to the C program that the truncl() routine is available
?S: to round long doubles towards zero. If copysignl is also present,
?S: we can emulate modfl.
?S:.
?C:HAS_TRUNCL :
?C: This symbol, if defined, indicates that the truncl routine is
?C: available. If copysignl is also present we can emulate modfl.
?C:.
```

```
?H:#$d_truncl HAS_TRUNCL  /**/
?H:.
?LINT:set d_truncl
: see if truncl exists
set truncl d_truncl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_truncl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_speedopt.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_speedopt.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:15:51  ram
?RCS: patch36: call ./Cppsym explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_speedopt: Myread Cppsym Oldconfig cat models Setvar
?MAKE: -pick add $@ %<
?S:d_speedopt:
?S: This variable conditionally defines the SPEED_OVER_MEM symbol, which
?S: indicates to the C program that it can
 burn memory in order to save
?S: CPU time.
?S:.
?C:SPEED_OVER_MEM (SPEEDOVERMEM):
?C: This symbol, if defined, indicates that the program can use more
?C: memory in order to reduce CPU time.  The symbol doesn't say whether
?C: we are more interested in saving text space or data space.
?C:.
?H:#$d_speedopt SPEED_OVER_MEM /**/
?H:.
?LINT:set d_speedopt
: do we want speed at the expense of memory
$cat <<'EOM'
```

```
I can try to optimize this package for either speed or memory.  If you have
limited address space you may wish to optimize for memory.  Otherwise you
should probably optimize for speed.

EOM
case "$d_speedopt" in
") if ./Cppsym $smallmach; then
 case "$models" in
  *large*|*huge*) dflt=speed;;
  *) dflt=memory;;
  esac
 else
  dflt=speed
 fi
 ;;
*define*) dflt=speed;;
*) dflt=memory;;
esac
rp="What to optimize for?"
. ./myread
case "$ans" in
mem*) val="$undef";;
*) val="$define";;
esac
set d_speedopt
eval $setvar

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
5.36.0/dist/U/d_speedopt.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_mkdtemp: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkdtemp:
?S: This variable conditionally defines the HAS_MKDTEMP symbol, which
?S: indicates to the C program that the mkdtemp() routine is available
?S: to exclusively create a uniquely named temporary directory.
?S:.
?C:HAS_MKDTEMP :
?C: This symbol, if defined, indicates that the mkdtemp routine is
```

```
?C: available to exclusively create a uniquely named temporary directory.
?C:.
?H:#$d_mkdtemp HAS_MKDTEMP  /**/
?H:.
?LINT:set d_mkdtemp
: see if mkdtemp exists
set mkdtemp d_mkdtemp
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_mkdtemp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
?MAKE:d_signbit: nvtype Compile Setvar cat run rm_try echo n c i_sunmath
?MAKE: -pick add $@ %<
?S:d_signbit:
?S: This variable conditionally defines the HAS_SIGNBIT symbol, which
?S: indicates to the C program that the signbit() routine is available
?S: and safe to use with perl's intern NV type.
?S:.
?C:HAS_SIGNBIT:
?C: This symbol, if defined, indicates that the signbit routine is
?C: available to check if the given number has the sign bit set.
?C: This should include correct testing of -0.0.  This will only be set
?C: if the signbit() routine is safe to use with the NV type used internally
?C: in perl.  Users should call Perl_signbit(), which will be #defined to
?C: the system's signbit() function or macro if this symbol is defined.
?C:.
?H:#$d_signbit
 HAS_SIGNBIT  /**/
?H:.
?F:!try
?LINT:set d_signbit
: see if signbit exists
$echo $n "Checking to see if you have signbit() available to work on $nvtype... $c" >&4
$cat >try.c <<EOCP
#$i_sunmath I_SUNMATH
#include <math.h>
#ifdef I_SUNMATH  /* Solaris special math library */
#  include <sunmath.h>
#endif
#define NV $nvtype
```

```
int main(int argc, char **argv)
{
   NV x = 0.0;
   NV y = -1.0;
   if ((signbit(x) == 0) && (signbit(y) != 0))
 return 0;
   else
 return 1;
}
EOCP
val="$undef"
set try
if eval $compile; then
   if $run ./try; then
       $echo "Yes." >&4
 val="$define"
   else
       $echo "Signbit seems to be available, but doesn't work as I expected."
       $echo "I won't use it." >&4
 val="$undef"
   fi
else
   $echo "Nope." >&4
   dflt="$undef"
fi
set d_signbit
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_signbit.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpwuid_r.U,v 0RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getpwuid_r getpwuid_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_pwd extern_C
?MAKE: -pick add $@ %<
?S:d_getpwuid_r:
?S: This variable conditionally defines the HAS_GETPWUID_R symbol,
?S: which indicates to the C program that the getpwuid_r()
```

```
?S: routine is available.
?S:.
?S:getpwuid_r_proto:
?S: This variable encodes the prototype of getpwuid_r.
?S: It is zero if d_getpwuid_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getpwuid_r
?S: is defined.
?S:.
?C:HAS_GETPWUID_R:
?C: This symbol, if defined, indicates that the getpwuid_r routine
?C: is available to
 getpwuid re-entrantly.
?C:.
?C:GETPWUID_R_PROTO:
?C: This symbol encodes the prototype of getpwuid_r.
?C: It is zero if d_getpwuid_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getpwuid_r
?C: is defined.
?C:.
?H:#$d_getpwuid_r HAS_GETPWUID_R /**/
?H:#define GETPWUID_R_PROTO $getpwuid_r_proto /**/
?H:.
?T:try hdrs d_getpwuid_r_proto
: see if getpwuid_r exists
set getpwuid_r d_getpwuid_r
eval $inlibc
case "$d_getpwuid_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_pwd pwd.h"
 case "$d_getpwuid_r_proto:$usethreads" in
 ":define") d_getpwuid_r_proto=define
  set d_getpwuid_r_proto getpwuid_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getpwuid_r_proto" in
 define)
 case "$getpwuid_r_proto" in
 "|0) try='int getpwuid_r(uid_t, struct passwd*, char*, size_t, struct passwd**);'
 ./protochk "$extern_C $try" $hdrs && getpwuid_r_proto=I_TSBWR ;;
 esac
 case "$getpwuid_r_proto" in
 "|0) try='int getpwuid_r(uid_t, struct passwd*, char*, int,
 struct passwd**);'
 ./protochk "$extern_C $try" $hdrs && getpwuid_r_proto=I_TSBIR ;;
 esac
 case "$getpwuid_r_proto" in
 "|0) try='int getpwuid_r(uid_t, struct passwd*, char*, int);'
```

```
 ./protochk "$extern_C $try" $hdrs && getpwuid_r_proto=I_TSBI ;;
 esac
 case "$getpwuid_r_proto" in
"|0) try='struct passwd* getpwuid_r(uid_t, struct passwd*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getpwuid_r_proto=S_TSBI ;;
 esac
 case "$getpwuid_r_proto" in
"|0) d_getpwuid_r=undef
  getpwuid_r_proto=0
  echo "Disabling getpwuid_r, cannot determine prototype." >&4 ;;
* ) case "$getpwuid_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getpwuid_r_proto="REENTRANT_PROTO_$getpwuid_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getpwuid_r has no prototype, not using it." >&4 ;;
  esac
  d_getpwuid_r=undef
  getpwuid_r_proto=0
  ;;
 esac
 ;;
*) getpwuid_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getpwuid_r.U
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```
?RCS: $Id: mailfile.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: mailfile.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:24:57  ram
?RCS: patch36: the Loc unit was missing from the dependency line
?RCS:
```

```
?RCS: Revision 3.0.1.1  1993/12/15  08:22:08  ram
?RCS: patch15: now also looks under /var/mail for BSD/386
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:11  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:mailfile: Myread Oldconfig Filexp Loc
?MAKE: -pick add $@ %<
?S:mailfile:
?S: This variable contains
 the eventual value of the MAILFILE symbol,
?S: which contains an interpretable name of the mail spool file for the
?S: current user.
?S:.
?C:MAILFILE:
?C: This symbol contains the interpretable name of the mail spool file
?C: for the current user.  The program must be prepared to substitute
?C: the HOME directory for %~, and the login id for %L.
?C:.
?H:#define MAILFILE "$mailfile"  /**/
?H:.
: determine where mail is spooled
case "$mailfile" in
")
 dflt=`./loc . XXX /usr/spool/mail /usr/mail /var/mail`
 case "$dflt" in
 XXX) dflt='%~/mailbox';;
 *) dflt="$dflt/%L";;
 esac
 ;;
*)  dflt="$mailfile"
 ;;
esac
cat <<'EOM'

In the following question, you may use %~ to represent the user's home
directory, and %L to represent a users name.

EOM
rp='In which file is yet-to-be-read mail spooled? (~name ok)'
. ./myread
mailfile=`./filexp "$ans"`
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/mailfile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysfile.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysfile.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:11:36  ram
?RCS: patch56: removed <> characters from comment, per metalint suggestion
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:01:23  ram
?RCS: patch6: added default for i_sysfile
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_sysfile: h_sysfile Inhdr Setvar
?MAKE: -pick add $@ %<
?S:i_sysfile:
?S: This variable conditionally defines
 the I_SYS_FILE symbol, and indicates
?S: whether a C program should include <sys/file.h> to get R_OK and friends.
?S:.
?C:I_SYS_FILE (I_SYSFILE):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/file.h> to get definition of R_OK and friends.
?C:.
?H:#$i_sysfile I_SYS_FILE  /**/
?H:.
?T:val
?D:i_sysfile="
?LINT:change h_sysfile
?LINT:set i_sysfile
: see if this is a sys/file.h system
val="
set sys/file.h val
eval $inhdr

: do we need to include sys/file.h ?
case "$val" in
"$define")
 echo " "
 if $h_sysfile; then
  val="$define"
```

```
  echo "We'll be including <sys/file.h>." >&4
 else
  val="$undef"
  echo "We won't be including <sys/file.h>." >&4
 fi
 ;;
*)
 h_sysfile=false
 ;;
esac
set i_sysfile
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sysfile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpwent.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_getpwent.U,v $
?RCS:
?MAKE:d_getpwent: Inlibc
?MAKE: -pick add $@ %<
?S:d_getpwent:
?S: This variable conditionally defines the HAS_GETPWENT symbol, which
?S: indicates to the C program that the getpwent() routine is available
?S: for sequential access of the passwd database.
?S:.
?C:HAS_GETPWENT:
?C: This symbol, if defined, indicates that the getpwent routine is
?C: available for sequential access of the passwd database.
?C: If this is not available, the older getpw() function may be available.
?C:.
?H:#$d_getpwent HAS_GETPWENT  /**/
?H:.
?LINT:set d_getpwent
: see if getpwent exists
set getpwent d_getpwent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/modified/d_getpwent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ulimit.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_ulimit.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_ulimit: Inlibc
?MAKE: -pick add $@ %<
?S:d_ulimit:
?S: This variable conditionally defines HAS_ULIMIT if ulimit() is
?S: available to get the user limits.
?S:.
?C:HAS_ULIMIT (ULIMIT):
?C: This symbol, if defined, indicates that the ulimit system call is
?C: available to get the user limits.
?C:.
?H:#$d_ulimit HAS_ULIMIT  /**/
?H:.
?LINT:set
 d_ulimit
: see if ulimit exists
set ulimit d_ulimit
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_ulimit.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strtok.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strtok.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:38  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The strtok routine now appears to be a standard one, but it was
?X: missing in early BSD systems.
?X:
?MAKE:d_strtok: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtok:
?S: This variable conditionally defines HAS_STRTOK if strtok() is
?S: available to scan strings for tokens.
?S:.
?C:HAS_STRTOK (STRTOK):
?C: This symbol, if defined, indicates
 that the strtok routine is
?C: available to scan strings for tokens.
?C:.
?H:#$d_strtok HAS_STRTOK /**/
?H:.
?LINT:set d_strtok
: see if strtok exists
set strtok d_strtok
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strtok.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libyacc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libyacc.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  16:09:19  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.3  1994/05/13  15:27:12  ram
```

```
?RCS: patch27: added byacc case (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:09:01  ram
?RCS: patch23: now uses full library path instead of -l notation
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:13:49  ram
?RCS: patch16: un-obsoleted this unit for smooth yacc compilations
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:09:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libyacc: Loc yacc libpth _a
?MAKE: -pick add $@ %<
?S:libyacc:
?S: This variable contains the argument to pass to the loader in order
?S: to get the yacc library routines.  If there is no yacc or yacc
?S: library, it is null.
?S:.
?T:xxx
: see if we should include -ly
echo " "
case "$yacc" in
*byacc*)
 echo "You are using byacc, so I won't look for a yacc library." >&4
 libyacc=''
 ;;
*yacc)
 xxx=`./loc liby$_a x $libpth`
 case "$xxx" in
 x)
  echo "No yacc library found." >&4
  libyacc=''
  ;;
 *)
  echo "yacc library found in $xxx." >&4
  libyacc="$xxx"
  ;;
 esac
 ;;
*bison*)
 echo "You are using bison, so I won't look for a yacc library." >&4
 libyacc=''
 ;;
*)
echo "You don't seem to have yacc, so I won't look for the yacc library." >&4
 libyacc=''
 ;;
```

```
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/libyacc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_lockf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_lockf.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:09:36  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_lockf: Inlibc
?MAKE: -pick add $@ %<
?S:d_lockf:
?S: This variable conditionally defines HAS_LOCKF if lockf() is
?S: available to do file locking.
?S:.
?C:HAS_LOCKF (LOCKF):
?C: This symbol, if defined, indicates that the lockf routine is
?C: available to do file locking.
?C:.
?H:#$d_lockf
 HAS_LOCKF  /**/
?H:.
?LINT:set d_lockf
: see if lockf exists
set lockf d_lockf
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_lockf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysstatfs.U,v $
?RCS:
```

```
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysstatfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysstatfs:
?S: This variable conditionally defines the I_SYSSTATFS symbol,
?S: and indicates whether a C program should include <sys/statfs.h>.
?S:.
?C:I_SYS_STATFS:
?C: This symbol, if defined, indicates that <sys/statfs.h> exists.
?C:.
?H:#$i_sysstatfs I_SYS_STATFS  /**/
?H:.
?LINT:set i_sysstatfs
: see if this is a sys/statfs.h system
set sys/statfs.h i_sysstatfs
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_sysstatfs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: groupstype.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: groupstype.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:18:08  ram
?RCS: patch36: no longer uses Setvar to set 'groupstype' (ADO)
?RCS: patch36: typo fix in the word 'argument' (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:00:18  ram
?RCS: patch30: created by ADO
?RCS:
?MAKE:groupstype: gidtype d_getgrps Myread Oldconfig Findhdr cat d_setgrps
?MAKE: -pick add $@ %<
```

```
?INIT:groupstype="
?S:groupstype:
?S: This
 variable defines Groups_t to be something like gid_t, int,
?S: ushort, or whatever type is used for the second argument to
?S: getgroups() and setgroups().  Usually, this is the same as
?S: gidtype (gid_t), but sometimes it isn't.
?S:.
?C:Groups_t (GROUPSTYPE):
?C: This symbol holds the type used for the second argument to
?C: getgroups() and setgroups().  Usually, this is the same as
?C: gidtype (gid_t) , but sometimes it isn't.
?C: It can be int, ushort, gid_t, etc...
?C: It may be necessary to include <sys/types.h> to get any
?C: typedef'ed information.  This is only required if you have
?C: getgroups() or setgroups()..
?C:.
?H:?%<:#if defined(HAS_GETGROUPS) || defined(HAS_SETGROUPS)
?H:?%<:#define Groups_t $groupstype /* Type for 2nd arg to [sg]etgroups() */
?H:?%<:#endif
?H:.
?W:%<:getgroups HAS_GETGROUPS setgroups HAS_SETGROUPS
: Find type of 2nd arg to 'getgroups()' and 'setgroups()'
echo " "
case "$d_getgrps$d_setgrps" in
*define*)
 case
 "$groupstype" in
 ") dflt="$gidtype" ;;
 *)  dflt="$groupstype" ;;
 esac
 $cat <<EOM
What type of pointer is the second argument to getgroups() and setgroups()?
Usually this is the same as group ids, $gidtype, but not always.

EOM
 rp='What type pointer is the second argument to getgroups() and setgroups()?'
 . ./myread
 groupstype="$ans"
 ;;
*)  groupstype="$gidtype";;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/groupstype.U
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```
?RCS: $Id: d_havetlib.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_havetlib.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:36:31  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: likewise for .o replaced by $_o
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:44:06  ram
?RCS: patch23: added AIX support to accept shared lib stub as termlib (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_havetlib termlib: cat contains Myread Loc
 Filexp Oldconfig libpth \
 test uname _a _o
?MAKE: -pick add $@ %<
?S:d_havetlib:
?S: This variable conditionally defines the HAS_TERMLIB symbol, which
?S: indicates to the C program that termlib-style routines are available.
?S:.
?S:termlib:
?S: This variable contains the argument to pass to the loader to get
?S: termlib-style routines.  It is up to the Makefile.SH to make sure
?S: the value gets to the right command.  Note that on many systems the
?S: termlib routines are emulated by the curses or terminfo library.
?S:.
?C:HAS_TERMLIB (HAVETERMLIB):
?C: This symbol, when defined, indicates that termlib-style routines
?C: are available.  There is nothing to include.
?C:.
?H:#$d_havetlib HAS_TERMLIB /**/
?H:.
?T:xxx
: where do we get termlib routines from
echo " "
xxx=`./loc libcurses$_a x $libpth`
case "$xxx" in
/*)
 ar t $xxx >grimble
```

```
 if $contains tputs$_o grimble >/dev/null 2>&1; then
  termlib='-lcurses'
  d_havetlib="$define"
  echo "Terminfo library found." >&4
 elif $test "x`$uname
 2>/dev/null`" = xAIX; then
  # Ok, do the AIX shr.o fun thing
  /usr/ccs/bin/nm -en $xxx 2>/dev/null >grimble
  if $contains '^tputs .*|extern|' grimble >/dev/null 2>&1; then
   termlib='-lcurses'
   d_havetlib="$define"
   echo "AIX Terminfo library found." >&4
  else
   xxx=x
  fi
 else
  xxx=x
 fi
 rm -f grimble
 ;;
esac
case "$xxx" in
x)
 xxx=`./loc libtermlib$_a x $libpth`
 case "$xxx" in
 /usr/lib*|/lib*)
  termlib='-ltermlib'
  d_havetlib="$define"
  echo "Termlib library found." >&4
  ;;
 /*)
  termlib="$xxx"
  d_havetlib="$define"
  echo "Termlib library found." >&4
  ;;
 *)
  xxx=`./loc libtermcap$_a x $libpth`
  case "$xxx" in
  /usr/lib*|/lib*)
   termlib='-ltermcap'
   d_havetlib="$define"
   echo "Termcap library found." >&4
   ;;
  /*)
   termlib="$xxx"
   d_havetlib="$define"
   echo "Termcap library found." >&4
   ;;
```

```
  *)
   case "$termlib" in
   ")
    dflt=y
rp="Your system appears to NOT have termlib-style routines. Is this true?"
    . ./myread
    case "$ans"
 in
    n*|f*) d_havetlib="$define"
     $cat <<'EOM'
Then where are the termlib-style routines kept? Specify either -llibname
or a full pathname (~name ok).

EOM
     dflt="
     rp='Specify termlib path:'
     . ./myread
     termlib=`./filexp $ans`
     ;;
    *)
     d_havetlib="$undef"
     termlib="
     echo "You will have to play around with term.c then." >&4
     ;;
    esac
   echo " ";;
   *)  echo "You said termlib was $termlib before." >&4;;
   esac;;
  esac;;
 esac;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_havetlib.U
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```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: lib.U,v $
```

```
?RCS: Revision 3.0.1.3  1995/09/25  09:16:47  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:38:08  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:27:40  ram
?RCS: patch32: now uses installation prefix to set the default
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lib libexp: Getfile
 Loc Oldconfig Prefixit Prefixup prefixexp
?MAKE: -pick add $@ %<
?Y:TOP
?S:lib:
?S: This variable holds the name of the directory in which the user wants
?S: to put public library files for the package in question.  It is most
?S: often a local directory such as /usr/local/lib. Programs using this
?S: variable must be prepared to deal with filename expansion.
?S:.
?S:libexp:
?S: This variable is the same as the lib variable, but is filename expanded
?S: at configuration time, for convenient use in your makefiles.
?S:.
: determine where public libraries go
set lib lib
eval $prefixit
case "$lib" in
")
 dflt=`./loc . "." $prefixexp/lib /usr/local/lib /usr/lib /lib`
 set dflt
 eval $prefixup
 ;;
*)  dflt="$lib";;
esac
echo " "
fn=d~
rp='Where do you want to put the public libraries?'
. ./getfile
lib="$ans"
libexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/lib.U

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```
?RCS: $Id: d_pthrattrj.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_old_pthread_create_joinable old_pthread_create_joinable: \
 cat Compile rm_try Setvar usethreads i_pthread
?MAKE: -pick add $@ %<
?S:d_old_pthread_create_joinable:
?S: This variable conditionally defines pthread_create_joinable.
?S: undef if pthread.h defines PTHREAD_CREATE_JOINABLE.
?S:.
?S:old_pthread_create_joinable:
?S: This variable defines the constant to use for creating joinable
?S: (aka undetached) pthreads.  Unused if pthread.h defines
?S: PTHREAD_CREATE_JOINABLE.  If used, possible values are
?S: PTHREAD_CREATE_UNDETACHED and __UNDETACHED.
?S:.
?C:OLD_PTHREAD_CREATE_JOINABLE:
?C: This symbol, if defined, indicates how to create pthread
?C: in joinable (aka undetached)
 state.  NOTE: not defined
?C: if pthread.h already has defined PTHREAD_CREATE_JOINABLE
?C: (the new version of the constant).
?C: If defined, known values are PTHREAD_CREATE_UNDETACHED
?C: and __UNDETACHED.
?C:.
?H:#$d_old_pthread_create_joinable OLD_PTHREAD_CREATE_JOINABLE $old_pthread_create_joinable /**/
?H:.
: how to create joinable pthreads
if test "X$usethreads" = "X$define" -a "X$i_pthread" = "X$define"; then
 echo " "
 echo "Checking what constant to use for creating joinable pthreads..." >&4
 $cat >try.c <<'EOCP'
#include <pthread.h>
int main() {
   int detachstate = JOINABLE;
}
EOCP
 set try -DJOINABLE=PTHREAD_CREATE_JOINABLE
 if eval $compile; then
  echo "You seem to use PTHREAD_CREATE_JOINABLE." >&4
  val="$undef" # Yes, undef.
  set d_old_pthread_create_joinable
```

```
  eval $setvar
  val=""
  set old_pthread_create_joinable
  eval $setvar
 else
  set try -DJOINABLE=PTHREAD_CREATE_UNDETACHED
  if eval $compile; then
   echo "You seem to use PTHREAD_CREATE_UNDETACHED." >&4
   val="$define"
   set
 d_old_pthread_create_joinable
   eval $setvar
   val=PTHREAD_CREATE_UNDETACHED
   set old_pthread_create_joinable
   eval $setvar
  else
   set try -DJOINABLE=__UNDETACHED
   if eval $compile; then
    echo "You seem to use __UNDETACHED." >&4
    val="$define"
    set d_old_pthread_create_joinable
    eval $setvar
    val=__UNDETACHED
    set old_pthread_create_joinable
    eval $setvar
   else
    echo "Egads, nothing obvious found.  Guessing that you use 0." >&4
    val="$define"
    set d_old_pthread_create_joinable
    eval $setvar
    val=0
    set old_pthread_create_joinable
    eval $setvar
   fi
  fi
 fi
 $rm_try
else
   d_old_pthread_create_joinable="$undef"
   old_pthread_create_joinable=""
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_pthrattrj.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_vprintf.U,v 3.0 1993/08/18 12:07:59 ram Exp $

```
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_vprintf.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:59  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_vprintf d_charvspr: Compile Guess cat Csym Setvar run rm_try \
 i_stdlib i_unistd i_stdarg i_varargs
?MAKE: -pick add $@ %<
?S:d_vprintf:
?S: This variable conditionally defines the HAS_VPRINTF symbol, which
?S: indicates to the C program that the vprintf() routine is available
?S: to printf with a pointer to an argument list.
?S:.
?S:d_charvspr:
?S: This
 variable conditionally defines CHARVSPRINTF if this system
?S: has vsprintf returning type (char*).  The trend seems to be to
?S: declare it as "int vsprintf()".
?S:.
?C:HAS_VPRINTF (VPRINTF):
?C: This symbol, if defined, indicates that the vprintf routine is available
?C: to printf with a pointer to an argument list.  If unavailable, you
?C: may need to write your own, probably in terms of _doprnt().
?C:.
?C:USE_CHAR_VSPRINTF (CHARVSPRINTF):
?C: This symbol is defined if this system has vsprintf() returning type
?C: (char*).  The trend seems to be to declare it as "int vsprintf()".  It
?C: is up to the package author to declare vsprintf correctly based on the
?C: symbol.
?C:.
?H:#$d_vprintf HAS_VPRINTF /**/
?H:#$d_charvspr USE_CHAR_VSPRINTF /**/
?H:.
?T:val2
?F:!try
?LINT:set d_vprintf d_charvspr
: see if vprintf exists
echo " "
if set vprintf val -f d_vprintf; eval $csym; $val; then
 echo 'vprintf() found.' >&4
```

```
 val="$define"
 $cat >try.c <<EOF
#$i_stdarg I_STDARG  /*
 Only one of these can be defined by i_varhrd */
#$i_varargs I_VARARGS

#$i_stdlib I_STDLIB
#$i_unistd I_UNISTD

#ifdef I_STDARG
#  include <stdarg.h>
#else /* I_VARARGS */
#  include <varargs.h>
#endif

#ifdef I_UNISTD
#  include <unistd.h>
#endif

#ifdef I_STDLIB
#  include <stdlib.h>
#endif

#include <stdio.h> /* vsprintf prototype */

#ifdef I_STDARG
void xxx(int n, ...)
{
   va_list args;
   char buf[10];
   va_start(args, n);
   exit((unsigned long)vsprintf(buf,"%s",args) > 10L);
}
int main() { xxx(1, "foo"); }

#else /* I_VARARGS */

xxx(va_alist)
va_dcl
{
   va_list args;
   char buf[10];
   va_start(args);
   exit((unsigned long)vsprintf(buf,"%s",args) > 10L);
}
int main() { xxx("foo"); }

#endif
```

```
EOF
 set try
 if eval $compile_ok; then
  if $run ./try; then
   echo "Your vsprintf() returns (int)." >&4
   val2="$undef"
  else
   echo "Your vsprintf() returns (char*)." >&4
   val2="$define"
  fi
 else
  echo 'I am unable to compile the vsprintf() test program.' >&4
  #
 We shouldn't get here.  If we do, assume the standard signature,
  # not the old BSD one.
  echo 'Guessing that vsprintf() returns (int).' >&4
  val2="$undef"
 fi
else
 echo 'vprintf() NOT found.' >&4
 val="$undef"
 val2="$undef"
fi
$rm_try
set d_vprintf
eval $setvar
val=$val2
set d_charvspr
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_vprintf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
```

```
?RCS: $Log: ssizetype.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:24:21  ram
?RCS: patch61: integrated perl5 concerns for mis-configured sfio
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:30:28  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:33:06  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:ssizetype: Myread Typedef
 sizetype cat rm \
 +cc +optimize +ccflags +ldflags +libs _o
?MAKE: -pick add $@ %<
?S:ssizetype:
?S: This variable defines ssizetype to be something like ssize_t,
?S: long or int.  It is used by functions that return a count
?S: of bytes or an error condition.  It must be a signed type.
?S: We will pick a type such that sizeof(SSize_t) == sizeof(Size_t).
?S:.
?C:SSize_t:
?C: This symbol holds the type used by functions that return
?C: a count of bytes or an error condition.  It must be a signed type.
?C: It is usually ssize_t, but may be long or int, etc.
?C: It may be necessary to include <sys/types.h> or <unistd.h>
?C: to get any typedef'ed information.
?C: We will pick a type such that sizeof(SSize_t) == sizeof(Size_t).
?C:.
?H:#define SSize_t $ssizetype  /* signed count of bytes */
?H:.
?F:!ssize.out !ssize
: see what type is used for signed size_t
set ssize_t ssizetype int stdio.h sys/types.h
eval $typedef
dflt="$ssizetype"
?X: Now check out whether sizeof(SSize_t) == sizeof(Size_t)
$cat
 > ssize.c <<EOM
#include <stdio.h>
#include <sys/types.h>
#define Size_t $sizetype
#define SSize_t $dflt
int main()
{
 if (sizeof(Size_t) == sizeof(SSize_t))
  printf("$dflt\n");
 else if (sizeof(Size_t) == sizeof(int))
```

```
  printf("int\n");
 else
  printf("long\n");
 fflush(stdout);
 exit(0);
}
EOM
echo " "
?X: If $libs contains -lsfio, and sfio is mis-configured, then it
?X: sometimes (apparently) runs and exits with a 0 status, but with no
?X: output!.  Thus we check with test -s whether we actually got any
?X: output.  I think it has to do with sfio's use of _exit vs. exit,
?X: but I don't know for sure.  --Andy Dougherty  1/27/97.
if $cc $optimize $ccflags $ldflags -o ssize ssize.c $libs > /dev/null 2>&1  &&
  ./ssize > ssize.out 2>/dev/null && test -s ssize.out ; then
 ssizetype=`$cat ssize.out`
 echo "I'll be using $ssizetype for functions returning a byte count." >&4
else
 $cat >&4 <<EOM
Help! I can't compile and run the ssize_t test program: please enlighten me!
(This
 is probably a misconfiguration in your system or libraries, and
you really ought to fix it.  Still, I'll try anyway.)

I need a type that is the same size as $sizetype, but is guaranteed to
be signed.  Common values are ssize_t, int and long.

EOM
 rp="What signed type is the same size as $sizetype?"
 . ./myread
 ssizetype="$ans"
fi
$rm -f ssize ssize$_o ssize.*
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/ssizetype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_portable.U,v 3.0.1.2 1995/01/11 15:28:52 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
```

```
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_portable.U,v $
?RCS: Revision 3.0.1.2  1995/01/11  15:28:52  ram
?RCS: patch45: executable path stripping moved to the end in Config_sh.U
?RCS:
?RCS: Revision 3.0.1.1  1993/12/15  08:21:17  ram
?RCS: patch15: did not strip variables properly when needed
?RCS: patch15: now also strips down variables from trylist
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
   This is the same as the dist version, except I don't bother
?X:   prompting people since it makes no difference for perl5,
?X:   and only confuses people.
?X:
?X: The Loc unit is wanted to get the definition of all the locating variables.
?X:
?MAKE:d_portable: Loc Oldconfig
?MAKE: -pick add $@ %<
?S:d_portable:
?S: This variable conditionally defines the PORTABLE symbol, which
?S: indicates to the C program that it should not assume that it is
?S: running on the machine it was compiled on.
?S:.
?C:PORTABLE:
?C: This symbol, if defined, indicates to the C program that it should
?C: not assume that it is running on the machine it was compiled on.
?C: The program should be prepared to look up the host name, translate
?C: generic filenames, use PATH, etc.
?C:.
?H:#$d_portable PORTABLE /**/
?H:.
?D:d_portable="
: decide how portable to be.  Allow command line overrides.
case "$d_portable" in
"$undef") ;;
*) d_portable="$define" ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_portable.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: sitelib.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $

```
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sitelib.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?RCS: Revision 3.0.1.1  1997/02/28  16:21:35  ram
?RCS: patch61: created
?RCS:
?MAKE:sitelib sitelibexp installsitelib sitelib_stem: cat Getfile Oldconfig \
 Setprefixvar Prefixit package version sed installstyle siteprefix
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitelib=''
?S:sitelib:
?S: This variable contains the
 eventual value of the SITELIB symbol,
?S: which is the name of the private library for this package.  It may
?S: have a ~ on the front. It is up to the makefile to eventually create
?S: this directory while performing installation (with ~ substitution).
?S: The standard distribution will put nothing in this directory.
?S: After perl has been installed, users may install their own local
?S: architecture-independent modules in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitelibexp=''
?S:sitelibexp:
?S: This variable is the ~name expanded version of sitelib, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installsitelib=''
?S:installsitelib:
?S: This variable is really the same as sitelibexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?S:sitelib_stem:
?S: This variable is $sitelibexp with any trailing version-specific component
?S: removed.
```

```
  The elements in inc_version_list (inc_version_list.U) can
?S: be tacked onto this variable to generate a list of directories to search.
?S:.
?C:SITELIB:
?C: This symbol contains the name of the private library for this package.
?C: The library is private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.  The program
?C: should be prepared to do ~ expansion.
?C: The standard distribution will put nothing in this directory.
?C: After perl has been installed, users may install their own local
?C: architecture-independent modules in this directory with
?C:  MakeMaker Makefile.PL
?C: or equivalent.  See INSTALL for details.
?C:.
?C:SITELIB_EXP:
?C: This symbol contains the ~name expanded version of SITELIB, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?C:SITELIB_STEM:
?C: This define is SITELIB_EXP with any trailing version-specific component
?C: removed.  The elements in
 inc_version_list (inc_version_list.U) can
?C: be tacked onto this variable to generate a list of directories to search.
?C:.
?H:#define SITELIB "$sitelib"  /**/
?H:#define SITELIB_EXP "$sitelibexp"  /**/
?H:#define SITELIB_STEM "$sitelib_stem"  /**/
?H:.
?T:prog
?LINT:change prefixvar
?LINT:set installsitelib
?LINT:set sitelib
?LINT:set sitelibexp
: determine where site specific libraries go.
: Usual default is /usr/local/lib/perl5/site_perl/$version
: The default "style" setting is made in installstyle.U
: XXX No longer works with Prefixit stuff.
?X: remove any trailing -3.0 or other version identification
prog=`echo $package | $sed 's/-*[0-9.]*$//'`
case "$sitelib" in
") case "$installstyle" in
 *lib/perl5*) dflt=$siteprefix/lib/$package/site_$prog/$version ;;
 *)  dflt=$siteprefix/lib/site_$prog/$version ;;
 esac
 ;;
*) dflt="$sitelib"
 ;;
esac
```

```
$cat <<EOM

The installation process will create a directory for
site-specific extensions and modules.  Most users find it convenient
to place
 all site-specific files in this directory rather than in the
main distribution directory.

EOM
fn=d~+
rp='Pathname for the site-specific library files?'
. ./getfile
prefixvar=sitelib
. ./setprefixvar
sitelib_stem=`echo "$sitelibexp" | sed "s,/$version$,,"`
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/sitelib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_llround: Inlibc
?MAKE: -pick add $@ %<
?S:d_llround:
?S: This variable conditionally defines the HAS_LLROUND symbol, which
?S: indicates to the C program that the llround() routine is available
?S: to return the long long value nearest to x.
?S:.
?C:HAS_LLROUND:
?C: This symbol, if defined, indicates that the llround routine is
?C: available to return the nearest long long value.
?C:.
?H:#$d_llround HAS_LLROUND  /**/
?H:.
?LINT:set d_llround
: see if llround exists
set llround d_llround
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_llround.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cf_who.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:28:50  ram
?RCS: patch61: new computation method avoiding use of temporary file
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:42:34  ram
?RCS: patch23: login name now computed the hard way
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:32  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Oldconfig dependency is there to ensure computation occurs after old values
?X: from config.sh have been loaded, so that we can supersede them.
?X:
?MAKE:cf_time
 cf_by: date Oldconfig
?MAKE: -pick add $@ %<
?S:cf_time:
?S: Holds the output of the "date" command when the configuration file was
?S: produced. This is used to tag both config.sh and config_h.SH.
?S:.
?S:cf_by:
?S: Login name of the person who ran the Configure script and answered the
?S: questions. This is used to tag both config.sh and config_h.SH.
?S:.
?LINT:change LC_ALL LANGUAGE
: who configured the system
?X: Ensure English date -- Jarkko Hietaniemi
cf_time=`LC_ALL=C; LANGUAGE=C; export LC_ALL; export LANGUAGE; $date 2>&1`
?X:
?X: Leave a white space between first two '(' for ksh. The sub-shell is needed
?X: on some machines to avoid the error message when logname is not found; e.g.
?X: on SUN-OS 3.2, (logname || whoami) would not execute whoami if logname was
?X: not found. Sigh!
?X:
?X: Convex had a broken logname executable which returned a non-zero status,
?X: and that broke the previous:
?X:   cf_by=`( (logname) 2>/dev/null || whoami) 2>&1`
?X: Switch to emergency
```

```
 mode... -- RAM, 19/04/94
?X:
?X: Parentheses needed to avoid error message if the program does not exist.
?X: Uses case instead of $test so it can be put before $test is defined.
?X: Don't redirect to a file because on Ultrix (under script?) logname
?X: outputs a blank line first.  This method will apparently work.
case "$cf_by" in
"")
 cf_by=`(logname) 2>/dev/null`
 case "$cf_by" in
 "")
  cf_by=`(whoami) 2>/dev/null`
  case "$cf_by" in
  "") cf_by=unknown ;;
  esac ;;
 esac ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/cf_who.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_flockproto: Hasproto i_sysfile
?MAKE: -pick add $@ %<
?S:d_flockproto:
?S: This variable conditionally defines the HAS_FLOCK_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the flock() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_FLOCK_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the flock() function.  Otherwise, it is up
?C: to the program to supply one.  A good guess is
?C:  extern int flock(int,
 int);
?C:.
```

```
?H:#$d_flockproto HAS_FLOCK_PROTO /**/
?H:.
?LINT:set d_flockproto
: see if prototype for flock is available
echo " "
set d_flockproto flock $i_sysfile sys/file.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_flockproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: Original author Jarkko Hietaniemi <jhi@iki.fi>
?RCS: Merged into dist by Andy Dougherty  July 13, 1998
?RCS:
?MAKE:ebcdic: Compile Setvar cat rm_try run
?MAKE: -pick add $@ %<
?S:ebcdic:
?S: This variable conditionally defines EBCDIC if this
?S: system uses EBCDIC encoding.  Among other things, this
?S: means that the character ranges are not contiguous.
?S: See trnl.U
?S:.
?C:EBCDIC:
?C:     This symbol, if defined, indicates that this system uses
?C: EBCDIC
 encoding.
?C:.
?H:#$ebcdic EBCDIC   /**/
?H:.
?F:!try
?LINT:set ebcdic
: look whether system uses EBCDIC
echo " "
echo "Determining whether or not we are on an EBCDIC system..." >&4
```

```
$cat >try.c <<'EOM'
int main()
{
 if ('M'==0xd4) return 0;
 return 1;
}
EOM
val=$undef
set try
if eval $compile_ok; then
 if $run ./try; then
  echo "You seem to speak EBCDIC." >&4
  val="$define"
 else
  echo "Nope, no EBCDIC, probably ASCII or some ISO Latin. Or UTF-8." >&4
 fi
else
 echo "I'm unable to compile the test program." >&4
 echo "I'll assume ASCII or some ISO Latin. Or UTF8." >&4
fi
$rm_try
set ebcdic
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/ebcdic.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getnetprotos.U,v $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_getnetprotos : Hasproto i_netdb
?MAKE: -pick add $@ %<
?S:d_getnetprotos:
?S: This variable conditionally defines the HAS_GETNET_PROTOS symbol,
?S: which indicates to the C program that <netdb.h> supplies
?S: prototypes for the various getnet*() functions.
?S: See also netdbtype.U for probing for various netdb types.
?S:.
?C:HAS_GETNET_PROTOS:
```

```
?C: This symbol, if defined, indicates that <netdb.h> includes
?C: prototypes for getnetent(), getnetbyname(), and
?C: getnetbyaddr().  Otherwise,
 it is up to the program to guess
?C: them.  See netdbtype.U for probing for various Netdb_xxx_t types.
?C:.
?H:#$d_getnetprotos HAS_GETNET_PROTOS /**/
?H:.
?LINT:set d_getnetprotos
: see if prototypes for various getnetxxx netdb.h functions are available
echo " "
set d_getnetprotos getnetent $i_netdb netdb.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/d_getnetprotos.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_systable.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_systable.U,v $
?RCS: Revision 3.0.1.1  1993/10/16  13:50:20  ram
?RCS: patch12: created
?RCS:
?RCS:
?MAKE:i_systable: Inhdr
?MAKE: -pick add $@ %<
?S:i_systable:
?S: This variable conditionally defines the I_SYS_TABLE symbol, and
?S: indicates whether a C program should include <sys/table.h>.
?S:.
?C:I_SYS_TABLE:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/table.h> for the OSF/1 table() system call.
?C:.
?H:#$i_systable
 I_SYS_TABLE  /**/
?H:.
?LINT:set i_systable
```

```
: see if this is an OSF sys/table system
set sys/table.h i_systable
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_systable.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_alarm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_alarm.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:06:58  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_alarm: Inlibc
?MAKE: -pick add $@ %<
?S:d_alarm:
?S: This variable conditionally defines the HAS_ALARM symbol, which
?S: indicates to the C program that the alarm() routine is available.
?S:.
?C:HAS_ALARM :
?C: This symbol, if defined, indicates that the alarm routine is
?C: available.
?C:.
?H:#$d_alarm
 HAS_ALARM  /**/
?H:.
?LINT:set d_alarm
: see if alarm exists
set alarm d_alarm
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_alarm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sigvec.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sigvec.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:45:37  ram
?RCS: patch61: there is now a separate routine for sigaction()
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X: d_sigvec.U, from d_ftime.U 1.0
?X:
?MAKE:d_sigvec d_sigvectr d_sigintrp: Csym Inlibc Setvar
?MAKE: -pick add $@ %<
?S:d_sigvec:
?S: This variable conditionally defines the HAS_SIGVEC symbol, which indicates
?S: that BSD
 reliable signals are supported.
?S:.
?S:d_sigvectr:
?S: This variable conditionally defines the HAS_SIGVECTOR symbol, which
?S: indicates that the sigvec() routine is called sigvector() instead, for
?S: reasons known only to Hewlett-Packard.
?S:.
?S:d_sigintrp:
?S: This variable conditionally defines the HAS_SIGINTRP symbol, which
?S: indicates that the siginterrupt() routine is available.
?S:.
?C:HAS_SIGVEC (SIGVEC):
?C: This symbol, if defined, indicates that BSD reliable signals are
?C: supported.
?C:.
?C:HAS_SIGVECTOR (SIGVECTOR):
?C: This symbol, if defined, indicates that the sigvec() routine is called
?C: sigvector() instead, and that sigspace() is provided instead of
?C: sigstack().  This is probably only true for HP-UX.
?C:.
?C:HAS_SIGINTRP (SIGINTRP):
?C: This symbol, if defined, indicates that the siginterrupt() routine
?C: is available.
?C:.
```

```
?H:#$d_sigvec HAS_SIGVEC /**/
?H:#$d_sigvectr HAS_SIGVECTOR /**/
?H:#$d_sigintrp HAS_SIGINTRP /**/
?H:.
?T:val
?LINT:set d_sigvec d_sigintrp
@if
 d_sigvectr || d_sigvec || HAS_SIGVEC || HAS_SIGVECTOR
: see if sigvector exists -- since sigvec will match the substring
echo " "
if set sigvector val -f d_sigvectr; eval $csym; $val; then
 echo 'sigvector() found--you must be running HP-UX.' >&4
 val="$define"; set d_sigvectr; eval $setvar
 val="$define"; set d_sigvec; eval $setvar
else
: try the original name
 d_sigvectr="$undef"
 if set sigvec val -f d_sigvec; eval $csym; $val; then
  echo 'sigvec() found.' >&4
  val="$define"; set d_sigvec; eval $setvar
 else
  echo 'sigvec() not found--race conditions with signals may occur.' >&4
  val="$undef"; set d_sigvec; eval $setvar
 fi
fi

@end
@if d_sigintrp || HAS_SIGINTRP
: see if we have siginterrupt
set siginterrupt d_sigintrp
eval $inlibc

@end
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sigvec.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_lroundl: Inlibc
?MAKE: -pick add $@ %<
?S:d_lroundl:
?S: This variable conditionally defines the HAS_LROUNDL symbol, which
?S: indicates to the C program that the lroundl() routine is available
?S: to return the integral value nearest to x away from zero.
```

```
?S:.
?C:HAS_LROUNDL:
?C: This symbol, if defined, indicates that the lroundl routine is
?C: available to return the nearest integral value away from zero of
?C: the long double argument value.
?C:.
?H:#$d_lroundl HAS_LROUNDL  /**/
?H:.
?LINT:set d_lroundl
: see if lroundl exists
set lroundl d_lroundl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_lroundl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2006-2007, H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_c99_variadic_macros: Compile Setvar cat rm_try run
?MAKE: -pick add $@ %<
?S:d_c99_variadic_macros:
?S: This variable conditionally defines the HAS_C99_VARIADIC_MACROS
?S: symbol, which indicates to the C program that C99 variadic macros
?S: are available.
?S:.
?C:HAS_C99_VARIADIC_MACROS:
?C: If defined, the compiler supports C99 variadic macros.
?C:.
?H:#$d_c99_variadic_macros HAS_C99_VARIADIC_MACROS /**/
?H:.
?F:!try
: see if the Compiler supports C99 variadic macros
echo "Checking for C99 variadic macros." >&4
$cat >try.c <<EOCP
#include
 <stdio.h>
#include <stdarg.h>

#define foo(buffer, format, ...) sprintf(buffer, format, __VA_ARGS__)
```

```
int main() {
 char buf[20];
 foo(buf, "%d %g %.*s", 123, 456.0, (int)3, "789fail");
 puts(buf);
 return 0;
}
EOCP
set try
if eval $compile && $run ./try 2>&1 >/dev/null; then
   case "`$run ./try`" in
 "123 456 789")
 echo "You have C99 variadic macros." >&4
 d_c99_variadic_macros="$define"
 ;;
 *)
 echo "You don't have functional C99 variadic macros." >&4
 d_c99_variadic_macros="$undef"
 ;;
   esac
else
   echo "I couldn't compile and run the test program, so I assume that you don't have functional C99 variadic
macros." >&4
   d_c99_variadic_macros="$undef"
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_c99_variadic.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_attribut.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_attribut.U,v $
?RCS: Revision 3.0.1.3  1995/01/30  14:33:45  ram
?RCS: patch49: test C program now includes <stdio.h> (WED)
?RCS:
?RCS: Revision 3.0.1.2  1995/01/11  15:25:47  ram
```

```
?RCS: patch45: fixed typo in the d_attribut variable (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:08:55  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_attribute_deprecated d_attribute_format
 d_attribute_malloc \
 d_attribute_nonnull d_attribute_noreturn d_attribute_pure \
 d_attribute_unused d_attribute_warn_unused_result \
 d_printf_format_null d_attribute_always_inline: \
    Myread Oldconfig cat cc ccflags rm Setvar compiler_warning \
        i_stdlib run i_inttypes
?MAKE: -pick add $@ %<
?S:d_attribute_format:
?S: This variable conditionally defines HASATTRIBUTE_FORMAT, which
?S: indicates the C compiler can check for printf-like formats.
?S:.
?S:d_attribute_deprecated:
?S: This variable conditionally defines HASATTRIBUTE_DEPRECATED, which
?S: indicates that GCC can handle the attribute for marking deprecated
?S: APIs
?S:.
?S:d_printf_format_null:
?S: This variable conditionally defines PRINTF_FORMAT_NULL_OK, which
?S: indicates the C compiler allows printf-like formats to be null.
?S:.
?S:d_attribute_malloc:
?S: This variable conditionally defines HASATTRIBUTE_MALLOC, which
?S: indicates the C compiler can understand functions as having
?S: malloc-like semantics.
?S:.
?S:d_attribute_nonnull:
?S: This
 variable conditionally defines HASATTRIBUTE_NONNULL, which
?S: indicates that the C compiler can know that certain arguments
?S: must not be NULL, and will check accordingly at compile time.
?S:.
?S:d_attribute_noreturn:
?S: This variable conditionally defines HASATTRIBUTE_NORETURN, which
?S: indicates that the C compiler can know that certain functions
?S: are guaranteed never to return.
?S:.
?S:d_attribute_pure:
?S: This variable conditionally defines HASATTRIBUTE_PURE, which
?S: indicates that the C compiler can know that certain functions
?S: are "pure" functions, meaning that they have no side effects, and
?S: only rely on function input and/or global data for their results.
?S:.
```

```
?S:d_attribute_unused:
?S: This variable conditionally defines HASATTRIBUTE_UNUSED, which
?S: indicates that the C compiler can know that certain variables
?S: and arguments may not always be used, and to not throw warnings
?S: if they don't get used.
?S:.
?S:d_attribute_warn_unused_result:
?S: This
 variable conditionally defines
?S: HASATTRIBUTE_WARN_UNUSED_RESULT, which indicates that the C
?S: compiler can know that certain functions have a return values
?S: that must not be ignored, such as malloc() or open().
?S:.
?S:d_attribute_always_inline:
?S: This variable conditionally defines HASATTRIBUTE_ALWAYS_INLINE,
?S: which indicates that the C compiler can know that certain
?S: functions should always be inlined.
?S:.
?C:HASATTRIBUTE_FORMAT ~ %< (GNUC_ATTRIBUTE_CHECK):
?C: Can we handle GCC attribute for checking printf-style formats
?C:.
?C:PRINTF_FORMAT_NULL_OK:
?C: Allows __printf__ format to be null when checking printf-style
?C:.
?C:HASATTRIBUTE_MALLOC:
?C: Can we handle GCC attribute for malloc-style functions.
?C:.
?C:HASATTRIBUTE_NONNULL:
?C: Can we handle GCC attribute for nonnull function parms.
?C:.
?C:HASATTRIBUTE_NORETURN:
?C: Can we handle GCC attribute for functions that do not return
?C:.
?C:HASATTRIBUTE_PURE:
?C: Can we handle
 GCC attribute for pure functions
?C:.
?C:HASATTRIBUTE_UNUSED:
?C: Can we handle GCC attribute for unused variables and arguments
?C:.
?C:HASATTRIBUTE_DEPRECATED:
?C: Can we handle GCC attribute for marking deprecated APIs
?C:.
?C:HASATTRIBUTE_WARN_UNUSED_RESULT ~ %< (HASATTRIBUTE):
?C: Can we handle GCC attribute for warning on unused results
?C:.
?C:HASATTRIBUTE_ALWAYS_INLINE:
?C: Can we handle GCC attribute for functions that should always be
```

```
?C: inlined.
?C:.
?H:?%<:#$d_attribute_deprecated HASATTRIBUTE_DEPRECATED /**/
?H:?%<:#$d_attribute_format HASATTRIBUTE_FORMAT /**/
?H:?%<:#$d_printf_format_null PRINTF_FORMAT_NULL_OK /**/
?H:?%<:#$d_attribute_noreturn HASATTRIBUTE_NORETURN /**/
?H:?%<:#$d_attribute_malloc HASATTRIBUTE_MALLOC /**/
?H:?%<:#$d_attribute_nonnull HASATTRIBUTE_NONNULL /**/
?H:?%<:#$d_attribute_pure HASATTRIBUTE_PURE /**/
?H:?%<:#$d_attribute_unused HASATTRIBUTE_UNUSED /**/
?H:?%<:#$d_attribute_warn_unused_result HASATTRIBUTE_WARN_UNUSED_RESULT /**/
?H:?%<:#$d_attribute_always_inline
 HASATTRIBUTE_ALWAYS_INLINE /**/
?H:.
?F:!attrib !attrib.out !attrib.c
?LINT:set d_attribute_deprecated
?LINT:set d_attribute_format
?LINT:set d_printf_format_null
?LINT:set d_attribute_malloc
?LINT:set d_attribute_nonnull
?LINT:set d_attribute_noreturn
?LINT:set d_attribute_pure
?LINT:set d_attribute_unused
?LINT:set d_attribute_warn_unused_result
?LINT:set d_attribute_always_inline
: Look for GCC-style attribute format
case "$d_attribute_format" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((format)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
void my_special_printf(char* pat,...) __attribute__((__format__(__printf__,1,2)));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((format))."
  val="$undef"
 else
  echo "Your C compiler supports __attribute__((format))."
  val="$define"
 fi
else
 echo "Your C compiler
 doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
```

```
*) val="$d_attribute_format" ;;
esac
set d_attribute_format
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute format with null format allowed
case "$d_printf_format_null" in
") case "$d_attribute_format" in
   $define)
 echo " "
 echo "Checking whether your compiler allows __printf__ format to be null ..." >&4
$cat >attrib.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_inttypes I_INTTYPES
#ifdef I_INTTYPES
#include <inttypes.h>
#endif
#ifndef INTPTR_MAX
#define intptr_t int
#endif
int null_printf (char* pat,...) __attribute__((__format__(__printf__,1,2)));
int null_printf (char* pat,...) { return (int)(intptr_t)pat; }
int main () { exit(null_printf(NULL)); }
EOCP
 if $cc $ccflags -o attrib attrib.c >attrib.out 2>&1 ; then
     : run the executable in case it produces a run-time warning
     if $run ./attrib >>attrib.out 2>&1; then
  if $compiler_warning attrib.out
 >/dev/null 2>&1; then
      echo "Your C compiler doesn't allow __printf__ format to be null."
      val="$undef"
  else
      echo "Your C compiler allows __printf__ format to be null."
      val="$define"
  fi
    else
    echo "Your C compiler executable failed with __printf__ format null."
    val="$undef"
 fi
   else
 echo "Your C compiler fails with __printf__ format null."
 val="$undef"
   fi
```

```
   ;;
   *)  val="$undef" ;;
   esac
;;
*)  val="$d_printf_format_null" ;;
esac
set d_printf_format_null
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute malloc
case "$d_attribute_malloc" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((malloc)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
char *go_get_some_memory( int how_many_bytes ) __attribute__((malloc));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((malloc))."
  val="$undef"
 else
  echo
 "Your C compiler supports __attribute__((malloc))."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_malloc" ;;
esac
set d_attribute_malloc
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute nonnull
case "$d_attribute_nonnull" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((nonnull(1))) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
void do_something (char *some_pointer,...) __attribute__((nonnull(1)));
EOCP
```

```
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((nonnull))."
  val="$undef"
 else
  echo "Your C compiler supports __attribute__((nonnull))."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_nonnull" ;;
esac
set d_attribute_nonnull
eval
 $setvar
$rm -f attrib*

: Look for GCC-style attribute noreturn
case "$d_attribute_noreturn" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((noreturn)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
void fall_over_dead( void ) __attribute__((noreturn));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((noreturn))."
  val="$undef"
 else
  echo "Your C compiler supports __attribute__((noreturn))."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_noreturn" ;;
esac
set d_attribute_noreturn
eval $setvar
$rm -f attrib*
```

```
: Look for GCC-style attribute pure
case "$d_attribute_pure" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((pure)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
int square( int
 n ) __attribute__((pure));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((pure))."
  val="$undef"
 else
  echo "Your C compiler supports __attribute__((pure))."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_pure" ;;
esac
set d_attribute_pure
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute unused
case "$d_attribute_unused" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((unused)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
int do_something( int dummy __attribute__((unused)), int n );
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((unused))."
  val="$undef"
 else
  echo "Your C compiler supports __attribute__((unused))."
  val="$define"
 fi
else
 echo
```

```
 "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_unused" ;;
esac
set d_attribute_unused
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute deprecated
case "$d_attribute_deprecated" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((deprecated)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
int I_am_deprecated(void) __attribute__((deprecated));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((deprecated))."
  val="$undef"
 else
  echo "Your C compiler supports __attribute__((deprecated))."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_deprecated" ;;
esac
set d_attribute_deprecated
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute
 warn_unused_result
case "$d_attribute_warn_unused_result" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((warn_unused_result)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
int I_will_not_be_ignored(void) __attribute__((warn_unused_result));
EOCP
```

```
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((warn_unused_result))."
  val="$undef"
 else
  echo "Your C compiler supports __attribute__((warn_unused_result))."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_warn_unused_result" ;;
esac
set d_attribute_warn_unused_result
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute always_inline
case "$d_attribute_always_inline" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((always_inline)) ..." >&4
$cat >attrib.c <<'EOCP'
#include
 <stdio.h>
static __inline__ __attribute__((always_inline)) int I_will_always_be_inlined(void);
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((always_inline))."
  val="$undef"
 else
  echo "Your C compiler supports __attribute__((always_inline))."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_always_inline" ;;
esac
set d_attribute_always_inline
eval $setvar
$rm -f attrib*
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_attribut.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: lib.U,v 3.0.1.3 1995/09/25 09:16:47 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: lib.U,v $
?RCS: Revision 3.0.1.3  1995/09/25  09:16:47  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:38:08  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:27:40  ram
?RCS: patch32: now uses installation prefix to set the default
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?LINT:
 empty
?X:?MAKE:lib libexp: Getfile Loc Oldconfig Prefixit Prefixup prefixexp
?X:?MAKE: -pick add $@ %<
?X:?Y:TOP
?X:?S:lib:
?X:?S: This variable holds the name of the directory in which the user wants
?X:?S: to put public library files for the package in question.  It is most
?X:?S: often a local directory such as /usr/local/lib. Programs using this
?X:?S: variable must be prepared to deal with filename expansion.
?X:?S:.
?X:?S:libexp:
?X:?S: This variable is the same as the lib variable, but is filename expanded
?X:?S: at configuration time, for convenient use in your makefiles.
?X:?S:.
?X:: determine where public libraries go
?X:set lib lib
?X:eval $prefixit
?X:case "$lib" in
?X:")
```

```
?X: dflt=`./loc . "." $prefixexp/lib /usr/local/lib /usr/lib /lib`
?X: set dflt
?X: eval $prefixup
?X: ;;
?X:*)  dflt="$lib";;
?X:esac
?X:echo " "
?X:fn=d~
?X:rp='Where do you want to put the public libraries?'
?X:. ./getfile
?X:lib="$ans"
?X:libexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/nullified/lib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2006-2007, H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_snprintf d_vsnprintf : Inlibc Compile cat run rm_try
?MAKE: -pick add $@ %<
?S:d_snprintf:
?S: This variable conditionally defines the HAS_SNPRINTF symbol, which
?S: indicates to the C program that the snprintf () library function
?S: is available.
?S:.
?S:d_vsnprintf:
?S: This variable conditionally defines the HAS_VSNPRINTF symbol, which
?S: indicates to the C program that the vsnprintf () library function
?S: is available.
?S:.
?C:HAS_SNPRINTF:
?C: This symbol, if defined, indicates that the snprintf () library
?C: function
 is available for use.
?C:.
?C:HAS_VSNPRINTF:
?C: This symbol, if defined, indicates that the vsnprintf () library
?C: function is available for use.
?C:.
?H:#$d_snprintf HAS_SNPRINTF /**/
```

```
?H:#$d_vsnprintf HAS_VSNPRINTF /**/
?H:.
?F:!try
: see if snprintf exists
set snprintf d_snprintf
eval $inlibc

: see if vsnprintf exists
set vsnprintf d_vsnprintf
eval $inlibc

case "$d_snprintf-$d_vsnprintf" in
"$define-$define")
  $cat <<EOM
Checking whether your snprintf() and vsnprintf() work okay...
EOM
  $cat >try.c <<'EOCP'
/* v?snprintf testing logic courtesy of Russ Allbery.
* According to C99:
* - if the buffer is too short it still must be \0-terminated
* - if the buffer is too short the potentially required length
*   must be returned and not -1
* - if the buffer is NULL the potentially required length
*   must be returned and not -1 or core dump
*/
#include <stdio.h>
#include <stdarg.h>

char buf[2];

int test (char *format, ...)
{
  va_list args;
  int count;

  va_start
 (args, format);
  count = vsnprintf (buf, sizeof buf, format, args);
  va_end (args);
  return count;
}

int main ()
{
  return ((test ("%s", "abcd") == 4 && buf[0] == 'a' && buf[1] == '\0'
          && snprintf (NULL, 0, "%s", "abcd") == 4) ? 0 : 1);
}
EOCP
```

```
  set try
  if eval $compile; then
 `$run ./try`
 case "$?" in
 0) echo "Your snprintf() and vsnprintf() seem to be working okay." ;;
 *) cat <<EOM >&4
Your snprintf() and snprintf() don't seem to be working okay.
EOM
    d_snprintf="$undef"
    d_vsnprintf="$undef"
    ;;
 esac
  else
 echo "(I can't seem to compile the test program--assuming they don't)"
 d_snprintf="$undef"
 d_vsnprintf="$undef"
  fi
  $rm_try
  ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_snprintf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2016 H.Merijn Brand & Todd Rinaldo
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:default_inc_excludes_dot: Myread cat
?MAKE: -pick add $@ %<
?S:default_inc_excludes_dot:
?S: When defined, remove the legacy '.' from @INC
?S:.
?C:DEFAULT_INC_EXCLUDES_DOT:
?C: This symbol, if defined, removes the legacy default behavior of
?C: including '.' at the end of @INC.
?C:.
?H:#$default_inc_excludes_dot DEFAULT_INC_EXCLUDES_DOT /**/
?H:.
: Include . in @INC
$cat <<EOM

Historically Perl has provided a final fallback of the current working
```

```
directory '.' when searching for a library. This, however, can lead to
problems when a Perl program which loads optional modules is called from
a shared directory. This can lead to executing unexpected code.

EOM

# When changing to exclude by
 default:
case "$default_inc_excludes_dot" in
   $undef|false|[nN]*) dflt="n" ;;
   *)                  dflt="y" ;;
esac
# To turn exclude off by default:
#case "$default_inc_excludes_dot" in
#    $define|true|[yY]*) dflt="y" ;;
#    *)                  dflt="n" ;;
#esac

rp='Exclude '.' from @INC by default? '
. ./myread
case "$ans" in
   [nN]|undef) default_inc_excludes_dot="$undef"  ;;
   *)          default_inc_excludes_dot="$define" ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/defaultincdot.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_itimer.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_itimer.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:25  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_itimer: Inlibc
?MAKE: -pick add $@ %<
?S:d_itimer:
?S: This variable conditionally defines the HAS_ITIMER symbol, which
```

```
?S: indicates that the setitimer() routine exists.  The setitimer()
?S: routine supports sub-second accuracy for one real-time and two
?S: cpu clocks.
?S:.
?C:HAS_ITIMER (ITIMER):
?C: This symbol, if defined, indicates
 that the setitimer() routine exists.
?C:.
?H:#$d_itimer HAS_ITIMER /**/
?H:.
?LINT:set d_itimer
: see if setitimer exists
set setitimer d_itimer
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_itimer.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fmax: Inlibc
?MAKE: -pick add $@ %<
?S:d_fmax:
?S: This variable conditionally defines the HAS_FMAX symbol, which
?S: indicates to the C program that the fmax() routine is available.
?S:.
?C:HAS_FMAX:
?C: This symbol, if defined, indicates that the fmax routine is
?C: available to do the maximum function.
?C:.
?H:#$d_fmax HAS_FMAX  /**/
?H:.
?LINT:set d_fmax
: see if fmax exists
set fmax d_fmax
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fmax.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
```

```
?MAKE:d_round: Inlibc
?MAKE: -pick add $@ %<
?S:d_round:
?S: This variable conditionally defines the HAS_ROUND symbol, which
?S: indicates to the C program that the round() routine is available.
?S:.
?C:HAS_ROUND:
?C: This symbol, if defined, indicates that the round routine is
?C: available to round to nearest integer, away from zero.
?C:.
?H:#$d_round HAS_ROUND  /**/
?H:.
?LINT:set d_round
: see if round exists
set round d_round
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_round.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_termio.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_termio.U,v $
?RCS: Revision 3.0.1.4  1994/10/29  16:20:54  ram
?RCS: patch36: call ./usg and ./Cppsym explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.3  1994/08/29  16:26:38  ram
?RCS: patch32: don't include all threee I_* symbols in config.h
?RCS: patch32: (had forgotten to undo this part last time)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:25:03  ram
?RCS: patch27: undone ADO's fix in previous patch since it was useless
?RCS:
?RCS:
 Revision 3.0.1.1  1994/05/06  15:05:23  ram
?RCS: patch23: now include all three defines in config.h (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:44  ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_termio i_sgtty i_termios: test Inlibc Cppsym Guess Setvar Findhdr Warn run
?MAKE: -pick add $@ %<
?S:i_termio:
?S: This variable conditionally defines the I_TERMIO symbol, which
?S: indicates to the C program that it should include <termio.h> rather
?S: than <sgtty.h>.
?S:.
?S:i_termios:
?S: This variable conditionally defines the I_TERMIOS symbol, which
?S: indicates to the C program that the POSIX <termios.h> file is
?S: to be included.
?S:.
?S:i_sgtty:
?S: This variable conditionally defines the I_SGTTY symbol, which
?S: indicates to the C program that it should include <sgtty.h> rather
?S: than <termio.h>.
?S:.
?C:I_TERMIO:
?C: This symbol, if defined, indicates that the program should include
?C: <termio.h> rather than <sgtty.h>.  There are also differences in
?C: the
 ioctl() calls that depend on the value of this symbol.
?C:.
?C:I_TERMIOS:
?C: This symbol, if defined, indicates that the program should include
?C: the POSIX termios.h rather than sgtty.h or termio.h.
?C: There are also differences in the ioctl() calls that depend on the
?C: value of this symbol.
?C:.
?C:I_SGTTY:
?C: This symbol, if defined, indicates that the program should include
?C: <sgtty.h> rather than <termio.h>.  There are also differences in
?C: the ioctl() calls that depend on the value of this symbol.
?C:.
?H:#$i_termio I_TERMIO  /**/
?H:#$i_termios I_TERMIOS  /**/
?H:#$i_sgtty I_SGTTY  /**/
?H:.
?T:val2 val3
?LINT:set i_termio i_sgtty i_termios
: see if this is a termio system
val="$undef"
val2="$undef"
val3="$undef"
?X: Prefer POSIX-approved termios.h over all else
if $test `./findhdr termios.h`; then
```

```
  set tcsetattr i_termios
  eval $inlibc
  val3="$i_termios"
fi
echo " "
case "$val3" in
  "$define") echo "You have POSIX termios.h... good!" >&4;;
  *)
 if ./Cppsym pyr; then
    case "`$run /bin/universe`" in
 ucb) if $test `./findhdr sgtty.h`; then
  val2="$define"
  echo "<sgtty.h> found." >&4
     else
  echo "System is pyramid with BSD universe."
  ./warn "<sgtty.h> not found--you could have problems."
     fi;;
 *)  if $test `./findhdr termio.h`; then
  val="$define"
  echo "<termio.h> found." >&4
     else
  echo "System is pyramid with USG universe."
  ./warn "<termio.h> not found--you could have problems."
     fi;;
    esac
?X: Start with USG to avoid problems if both usg/bsd was guessed
 elif ./usg; then
    if $test `./findhdr termio.h`; then
 echo "<termio.h> found." >&4
 val="$define"
    elif $test `./findhdr sgtty.h`; then
 echo "<sgtty.h> found." >&4
 val2="$define"
    else
 ./warn "Neither <termio.h> nor <sgtty.h> found--cross fingers!"
    fi
 else
    if $test `./findhdr sgtty.h`; then
 echo "<sgtty.h> found." >&4
 val2="$define"
    elif $test `./findhdr termio.h`; then
 echo "<termio.h>
 found." >&4
 val="$define"
    else
 ./warn "Neither <sgtty.h> nor <termio.h> found--cross fingers!"
    fi
 fi;;
```

```
esac
set i_termio; eval $setvar
val=$val2; set i_sgtty; eval $setvar
val=$val3; set i_termios; eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_termio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_nl_langinfo: Inlibc i_langinfo
?MAKE: -pick add $@ %<
?S:d_nl_langinfo:
?S: This variable conditionally defines the HAS_NL_LANGINFO symbol, which
?S: indicates to the C program that the nl_langinfo() routine is available.
?S:.
?C:HAS_NL_LANGINFO:
?C: This symbol, if defined, indicates that the nl_langinfo routine is
?C: available to return local data.  You will also need <langinfo.h>
?C: and therefore I_LANGINFO.
?C:.
?H:#$d_nl_langinfo HAS_NL_LANGINFO  /**/
?H:.
?LINT:set d_nl_langinfo
?LINT:use i_langinfo
: see if nl_langinfo exists
set nl_langinfo d_nl_langinfo
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_nl_langinfo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_systwgcf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_systwgcf.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_systwgcf: Inhdr
?MAKE: -pick add $@ %<
?S:i_systwgcf:
?S: This variable conditionally defines the I_SYS_TWG_CF symbol, and
?S: indicates whether a C program should include sys/twg_config.h.
?S:.
?C:I_SYS_TWG_CF:
?C: This symbol, if defined, indicates to the C program that it should
?C: include sys/twg_config.h.
?C:.
?H:#$i_systwgcf
 I_SYS_TWG_CF /**/
?H:.
?LINT:set i_systwgcf
: see if this is a sys/twg_config.h system
set sys/twg_config.h i_systwgcf
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_systwgcf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: bin.U,v 3.1 1999/07/09 18:20:13 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: bin.U,v $
?RCS: Revision 3.1  1999/07/09 18:20:13  doughera
?RCS: Updated for installprefix
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:15:32  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:32:40  ram
```

```
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:05:28  ram
?RCS: patch32: now uses installation prefix
?RCS:
?RCS:
 Revision 3.0.1.1  1993/09/13  15:56:51  ram
?RCS: patch10: made prompting more explicit (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:bin binexp installbin userelocatableinc initialinstalllocation: \
 Myread Prefixit Getfile Setvar Setprefixvar Oldconfig \
 test prefix prefixexp
?MAKE: -pick add $@ %<
?Y:TOP
?D:bin=''
?S:bin:
?S: This variable holds the name of the directory in which the user wants
?S: to put publicly executable images for the package in question.  It
?S: is most often a local directory such as /usr/local/bin. Programs using
?S: this variable must be prepared to deal with ~name substitution.
?S:.
?D:binexp=''
?S:binexp:
?S: This is the same as the bin variable, but is filename expanded at
?S: configuration time, for use in your makefiles.
?S:.
?D:installbin=''
?S:installbin:
?S: This variable is the same as binexp unless AFS is running in which case
?S: the user is explicitly prompted for it. This variable
 should always
?S: be used in your makefiles for maximum portability.
?S:.
?D:userelocatableinc=''
?S:userelocatableinc:
?S: This variable is set to true to indicate that perl should relocate
?S: @INC entries at runtime based on the path to the perl binary.
?S: Any @INC paths starting "../" are relocated relative to the directory
?S: containing the perl binary, and a logical cleanup of the path is then
?S: made around the join point (removing "dir/../" pairs)
?S:.
?S:initialinstalllocation:
?S: When userelocatableinc is true, this variable holds the location
?S: that make install should copy the perl binary to, with all the
?S: run-time relocatable paths calculated from this at install time.
```

```
?S: When used, it is initialized to the original value of binexp, and
?S: then binexp is set to '.../', as the other binaries are found
?S: relative to the perl binary.
?S:.
?C:BIN:
?C: This symbol holds the path of the bin directory where the package will
?C: be installed. Program must be
 prepared to deal with ~name substitution.
?C:.
?C:BIN_EXP:
?C: This symbol is the filename expanded version of the BIN symbol, for
?C: programs that do not want to deal with that at run-time.
?C:.
?C:PERL_RELOCATABLE_INC:
?C: This symbol, if defined, indicates that we'd like to relocate entries
?C: in @INC at run time based on the location of the perl binary.
?C:.
?H:#define BIN "$bin" /**/
?H:#define BIN_EXP "$binexp" /**/
?H:#define PERL_RELOCATABLE_INC "$userelocatableinc"  /**/
?H:.
?D:bin='/usr/local/bin'
?LINT:change prefix
?LINT:change prefixexp
?LINT:change prefixvar
?LINT:change installprefixexp
?LINT:set userelocatableinc
: determine where public executables go
echo " "
set dflt bin bin
eval $prefixit
fn=d~
rp='Pathname where the public executables will reside?'
. ./getfile
if $test "X$ansexp" != "X$binexp"; then
 installbin="
fi
prefixvar=bin
: XXX Bug? -- ignores Configure -Dinstallprefix setting.
: XXX If this is fixed, also fix the "start perl" hunk below, which relies on
:
    this via initialinstalllocation
. ./setprefixvar

case "$userelocatableinc" in
$define|true|[yY]*) dflt='y' ;;
*)   dflt='n' ;;
esac
```

```
cat <<EOM

Would you like to build Perl so that the installation is relocatable, so that
library paths in @INC are determined relative to the path of the perl binary?
This is not advised for system Perl installs, or if you need to run setid
scripts or scripts under taint mode.

If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp='Use relocatable @INC?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*) val="$undef"  ;;
esac
set userelocatableinc
eval $setvar

initialinstalllocation="$binexp"
: Default prefix is now "up one level from where the binaries are"
case "$userelocatableinc" in
$define|true|[yY]*)
   bin="../"
   binexp="../"
   prefix="../.."
   prefixexp="../.."
   installprefixexp="../.."
   ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/bin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cpp_stuff.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:30:48  ram
?RCS: patch61: added cute quoting trick for wild stringify support
```

```
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:08:24  ram
?RCS: patch36: now uses cppstdin instead of plain cpp for consistency (ADO)
?RCS: patch36: remove temporary files when done
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:36  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:cpp_stuff cpp_quote: cat contains cppstdin cppflags cppminus rm Warn \
 package
?MAKE: -pick
 add $@ %<
?S:cpp_stuff:
?S: This variable contains an identification of the catenation mechanism
?S: used by the C preprocessor.
?S:.
?S:cpp_quote:
?S: This variable is set to either "" or '' depending on whether the
?S: pre-processor pre-dates ANSI or not.  It is used in the production of
?S: the SQuoTe() and EQuoTe() macros, and was introduced to overcome a bug
?S: in gcc 3.x whereby the pre-processor complained loudly about the
?S: unterminated strings.
?S:.
?C:CAT2:
?C: This macro catenates 2 tokens together.
?C:.
?C:CAT3:
?C: This macro catenates 3 tokens together.
?C:.
?C:CAT4:
?C: This macro catenates 4 tokens together.
?C:.
?C:CAT5:
?C: This macro catenates 5 tokens together.
?C:.
?C:STRINGIFY:
?C: This macro surrounds its token with double quotes.
?C:.
?C:SCAT2:
?C: This macro catenates 2 tokens together and stringifies the result.
?C:.
?C:SCAT3:
?C: This macro catenates 3 tokens together and stringifies the result.
?C:.
?C:SCAT4:
?C: This macro catenates 4 tokens
 together and stringifies the result.
?C:.
```

```
?C:SCAT5:
?C: This macro catenates 5 tokens together and stringifies the result.
?C:.
?H:?%<:#if $cpp_stuff == 1
?H:?CAT2:#define CAT2(a,b)a/**/b
?H:?CAT3:#define CAT3(a,b,c)a/**/b/**/c
?H:?CAT4:#define CAT4(a,b,c,d)a/**/b/**/c/**/d
?H:?CAT5:#define CAT5(a,b,c,d,e)a/**/b/**/c/**/d/**/e
?H:?STRINGIFY:#define STRINGIFY(a)"a"
?H:?%<:#define SQuoTe(a)${cpp_quote}a
?H:?%<:#define EQuoTe(a)a${cpp_quote}
?H:?SCAT2:#define SCAT2(a,b)EQuoTe(SQuoTe(a)b)
?H:?SCAT3:#define SCAT3(a,b,c)EQuoTe(SQuoTe(a)b/**/c)
?H:?SCAT4:#define SCAT4(a,b,c,d)EQuoTe(SQuoTe(a)b/**/c/**/d)
?H:?SCAT5:#define SCAT5(a,b,c,d,e)EQuoTe(SQuoTe(a)b/**/c/**/d/**/e)
?H:?%<:#endif
?H:?%<:#if $cpp_stuff == 42
?X: The additional level of indirection enables these macros to be
?X: used as arguments to other macros.  See K&R 2nd ed., page 231.
?H:?%<:#define CaTiFy(a,b) a ## b
?H:?%<:#define CAT2(a,b) CaTiFy(a,b)
?H:?CAT3:#define CAT3(a,b,c) CAT2(CaTiFy(a,b),c)
?H:?CAT4:#define CAT4(a,b,c,d)
 CAT2(CaTiFy(a,b), CaTiFy(c,d))
?H:?CAT5:#define CAT5(a,b,c,d,e) CAT2(CAT2(CaTiFy(a,b), CaTiFy(c,d)), e)
?H:?%<:#define StGiFy(a)# a
?H:?STRINGIFY:#define STRINGIFY(a)StGiFy(a)
?H:?SCAT2:#define SCAT2(a,b)StGiFy(a) StGiFy(b)
?H:?SCAT3:#define SCAT3(a,b,c)StGiFy(a) StGiFy(b) StGiFy(c)
?H:?SCAT4:#define SCAT4(a,b,c,d)StGiFy(a) StGiFy(b) StGiFy(c) StGiFy(d)
?H:?SCAT5:#define SCAT5(a,b,c,d,e)StGiFy(a) StGiFy(b) StGiFy(c) StGiFy(d) StGiFy(e)
?H:?%<:#endif
?H:?%<:#if $cpp_stuff != 1 && $cpp_stuff != 42
?H:?%<:#include "Bletch: How does this C preprocessor catenate tokens?"
?H:?%<:#endif
?H:.
?W:%<:CAT2 CAT3 CAT4 CAT5 STRINGIFY SCAT2 SCAT3 SCAT4 SCAT5
?F:!cpp_stuff.c
?LINT:known StGiFy EQuoTe SQuoTe CaTiFy
: how do we catenate cpp tokens here?
echo " "
echo "Checking to see how your cpp does stuff like catenate tokens..." >&4
cpp_quote="
$cat >cpp_stuff.c <<'EOCP'
#define RCAT(a,b)a/**/b
#define ACAT(a,b)a ## b
RCAT(Rei,ser)
ACAT(Cir,cus)
```

```
EOCP
$cppstdin $cppflags $cppminus <cpp_stuff.c >cpp_stuff.out
 2>&1
if $contains 'Circus' cpp_stuff.out >/dev/null 2>&1; then
 echo "Oh!  Smells like ANSI's been here."
 echo "We can catify or stringify, separately or together!"
 cpp_stuff=42
elif $contains 'Reiser' cpp_stuff.out >/dev/null 2>&1; then
 echo "Ah, yes!  The good old days!"
 cpp_stuff=1
 $cat >cpp_stuff.c <<'EOCP'
#define SQuoTe(a)"a
#define EQuoTe(a)a"
#define CAT2(a,b)EQuoTe(SQuoTe(a)b)
CAT2(Vic,tory)
EOCP
 $cppstdin $cppflags $cppminus <cpp_stuff.c >cpp_stuff.out 2>&1
 if $contains '"Victory"' cpp_stuff.out >/dev/null 2>&1; then
  echo "I'll resort to a cute trick to also be able to stringify."
  cpp_quote=""
 else
  $cat <<EOM
However, in the good old days we don't know how to stringify and
catify at the same time...
@if SCAT2 || SCAT3 || SCAT4 || SCAT5
You might have to edit the values of the SCAT[2-5] macros in config.h...
@else
Hopefully, $package does not need this feature.
@end
EOM
 fi
else
 ./warn <<EOM
I can't seem to be able to catenate tokens with your cpp.
@if
 CAT2 || CAT3 || CAT4 || CAT5 || SCAT2 || SCAT3 || SCAT4 || SCAT5
You're going to have to edit the values of the following
macros in config.h:

@if CAT2 || CAT3 || CAT4 || CAT5
 CAT[2-5]
@end
@if SCAT2 || SCAT3 || SCAT4 || SCAT5
 SCAT[2-5]
@end

in order to let me compile.
@end
```

```
EOM
 cpp_stuff="/* Help! How do we handle cpp_stuff? */*/"
fi
$rm -f cpp_stuff.*
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/cpp_stuff.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Oldsym.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Oldsym.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:06:58  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit follows the creation of the config.sh file. It adds some
?X: special symbols: defines from patchlevel.h file if any and PERL_CONFIG_SH,
?X: which is set to true. Then, we try to keep all the new symbols that
?X: may come from a hint
 file or a previous config.sh file.
?X:
?MAKE:Oldsym: Config_sh cat test hint src sed sort uniq perl_patchlevel
?MAKE: -pick add $@ %<
?T:PERL_CONFIG_SH PERL_PATCHLEVEL sym tmp
?F:!UU
: add special variables
$test -f $src/patchlevel.h && \
awk '/^#define[  ]+PERL_/ {printf "%s=%s\n",$2,$3}' $src/patchlevel.h >>config.sh
echo "PERL_PATCHLEVEL='$perl_patchlevel'" >>config.sh
echo "PERL_CONFIG_SH=true" >>config.sh

: propagate old symbols
if $test -f UU/config.sh; then
?X: Make sure each symbol is unique in oldconfig.sh
 <UU/config.sh $sort | $uniq >UU/oldconfig.sh
```

```
?X:
?X: All the symbols that appear twice come only from config.sh (hence the
?X: two config.sh in the command line). These symbols will be removed by
?X: the uniq -u command. The oldsyms file thus contains all the symbols
?X: that did not appear in the produced config.sh (Larry Wall).
?X:
?X: Do not touch the -u flag of uniq.  This means you too, Jarkko.
?X:
 $sed -n 's/^\([a-zA-Z_0-9]*\)=.*/\1/p' \
  config.sh config.sh UU/oldconfig.sh
 |\
  $sort | $uniq -u >UU/oldsyms
 set X `$cat UU/oldsyms`
 shift
 case $# in
 0) ;;
 *)
  $cat <<EOM
Hmm...You had some extra variables I don't know about...I'll try to keep 'em...
EOM
  echo ": Variables propagated from previous config.sh file." >>config.sh
  for sym in `$cat UU/oldsyms`; do
   echo "    Propagating $hint variable "'$'"$sym..."
   eval 'tmp="$'"${sym}"'"'
   echo "$tmp" | \
    sed -e "s/'/'\''\''/g" -e "s/^/$sym='/" -e "s/$/'/" >>config.sh
  done
  ;;
 esac
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Oldsym.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fpclass: Inlibc
?MAKE: -pick add $@ %<
?S:d_fpclass:
?S: This variable conditionally defines the HAS_FPCLASS symbol, which
?S: indicates to the C program that the fpclass() routine is available.
```

```
?S:.
?C:HAS_FPCLASS:
?C: This symbol, if defined, indicates that the fpclass routine is
?C: available to classify doubles.  Available for example in Solaris/SVR4.
?C: The returned values are defined in <ieeefp.h> and are:
?C:
?C: FP_SNAN  signaling NaN
?C: FP_QNAN  quiet NaN
?C: FP_NINF  negative infinity
?C: FP_PINF  positive infinity
?C: FP_NDENORM negative denormalized non-zero
?C: FP_PDENORM positive denormalized non-zero
?C: FP_NZERO negative zero
?C: FP_PZERO positive zero
?C: FP_NNORM negative normalized
 non-zero
?C: FP_PNORM positive normalized non-zero
?C:.
?H:#$d_fpclass HAS_FPCLASS  /**/
?H:.
?LINT:set d_fpclass
: see if fpclass exists
set fpclass d_fpclass
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fpclass.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_ilogb: Inlibc
?MAKE: -pick add $@ %<
?S:d_ilogb:
?S: This variable conditionally defines the HAS_ILOGB symbol, which
?S: indicates to the C program that the ilogb() routine is available
?S: for extracting the exponent of double x as a signed integer.
?S:.
?C:HAS_ILOGB:
?C: This symbol, if defined, indicates that the ilogb routine is
?C: available to get integer exponent of a floating-point value.
?C:.
?H:#$d_ilogb HAS_ILOGB  /**/
?H:.
?LINT:set d_ilogb
: see if ilogb exists
```

```
set ilogb d_ilogb
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_ilogb.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2017-2018, H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_mkostemp: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkostemp:
?S: This variable conditionally defines HAS_MKOSTEMP if mkostemp() is
?S: available to exclusively create and open a uniquely named (with a
?S: suffix) temporary file.
?S:.
?C:HAS_MKOSTEMP:
?C: This symbol, if defined, indicates that the mkostemp routine is
?C: available to exclusively create and open a uniquely named (with a
?C: suffix) temporary file.
?C:.
?H:#$d_mkostemp HAS_MKOSTEMP /**/
?H:.
?LINT:set d_mkostemp
: see if mkostemp exists
set mkostemp d_mkostemp
eval $inlibc
```

Found
 in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_mkostemp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_trunc: Inlibc
?MAKE: -pick add $@ %<
?S:d_trunc:
?S: This variable conditionally defines the HAS_TRUNC symbol, which
```

```
?S: indicates to the C program that the trunc() routine is available
?S: to round doubles towards zero.
?S:.
?C:HAS_TRUNC:
?C: This symbol, if defined, indicates that the trunc routine is
?C: available to round doubles towards zero.
?C:.
?H:#$d_trunc HAS_TRUNC  /**/
?H:.
?LINT:set d_trunc
: see if trunc exists
set trunc d_trunc
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_trunc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: lns.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  07:05:52  ram
?RCS: patch30: created by ADO
?RCS:
?MAKE:issymlink: lns test rm
?MAKE: -pick add $@ %<
?S:issymlink:
?S: This variable holds the test command to test for a symbolic link
?S: (if they are supported).  Typical values include 'test -h' and
?S: 'test -L'.
?S:.
?T:pth p
?LINT:change PATH test
?LINT:extern newsh
: determine whether symbolic links are supported
echo
```

```
 " "
case "$lns" in
*"ln"*" -s")
 echo "Checking how to test for symbolic links..." >&4
 $lns blurfl sym
 if $test "X$issymlink" = X; then
?X:
?X: In some AIX 4 versions the (ksh) builtin test (-h) is broken.
?X:
  case "$newsh" in
  ") sh     -c "PATH= test -h sym" >/dev/null 2>&1 ;;
  *)  $newsh -c "PATH= test -h sym" >/dev/null 2>&1 ;;
  esac
  if test $? = 0; then
   issymlink="test -h"
  else
   echo "Your builtin 'test -h' may be broken." >&4
   case "$test" in
   /*) ;;
   *) pth=`echo $PATH | sed -e "s/$p_/ /g"`
    for p in $pth
    do
     if test -f "$p/$test"; then
      test="$p/$test"
      break
     fi
    done
    ;;
   esac
   case "$test" in
   /*)
    echo "Trying external '$test -h'." >&4
    issymlink="$test -h"
    if $test ! -h sym >/dev/null 2>&1; then
     echo "External '$test -h' is broken, too." >&4
     issymlink="
    fi
    ;;
   *) issymlink=" ;;
   esac
  fi
 fi
 if $test "X$issymlink" = X; then
  if $test -L sym 2>/dev/null; then
   issymlink="$test
-L"
   echo "The builtin '$test -L' worked." >&4
  fi
```

```
 fi
 if $test "X$issymlink" != X; then
  echo "You can test for symbolic links with '$issymlink'." >&4
 else
  echo "I do not know how you can test for symbolic links." >&4
 fi
 $rm -f blurfl sym
 ;;
*) echo "No symbolic links, so not testing for their testing..." >&4
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/issymlink.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_shmctl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_shmctl.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:18  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_shmctl: Inlibc
?MAKE: -pick add $@ %<
?S:d_shmctl:
?S: This variable conditionally defines the HAS_SHMCTL symbol, which
?S: indicates to the C program that the shmctl() routine is available.
?S:.
?C:HAS_SHMCTL:
?C: This symbol, if defined, indicates that the shmctl() routine is
?C: available to perform shared memory control operations.
?C:.
?H:#$d_shmctl
 HAS_SHMCTL  /**/
?H:.
?LINT:set d_shmctl
: see if shmctl exists
set shmctl d_shmctl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_shmctl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_sockatmark: Inlibc
?MAKE: -pick add $@ %<
?S:d_sockatmark:
?S: This variable conditionally defines the HAS_SOCKATMARK symbol, which
?S: indicates to the C program that the sockatmark() routine is available.
?S:.
?C:HAS_SOCKATMARK:
?C: This symbol, if defined, indicates that the sockatmark routine is
?C: available to test whether a socket is at the out-of-band mark.
?C:.
?H:#$d_sockatmark HAS_SOCKATMARK  /**/
?H:.
?LINT:set d_sockatmark
: see if sockatmark exists
set sockatmark d_sockatmark
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_sockatmark.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_j0 d_j0l: Inlibc
?MAKE: -pick add $@ %<
?S:d_j0:
?S: This variable conditionally defines the HAS_J0 symbol, which
?S: indicates to the C program that the j0() routine is available.
?S:.
?S:d_j0l:
?S: This variable conditionally defines the HAS_J0L symbol, which
?S: indicates to the C program that the j0l() routine is available.
?S:.
```

```
?C:HAS_J0:
?C: This symbol, if defined, indicates to the C program that the
?C: j0() function is available for Bessel functions of the first
?C: kind of the order zero, for doubles.
?C:.
?C:HAS_J0L:
?C: This symbol, if defined, indicates to the C program that the
?C: j0l() function is available for Bessel functions of the first
?C: kind of the order zero, for long doubles.
?C:.
?H:#$d_j0 HAS_J0  /**/
?H:#$d_j0l HAS_J0L  /**/
?H:.
?LINT:set
 d_j0
?LINT:set d_j0l
: see if j0 exists
set j0 d_j0
eval $inlibc

: see if j0l exists
set j0l d_j0l
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_j0.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Oldconfig.U,v 3.0.1.10 1997/02/28 15:06:39 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Oldconfig.U,v $
?RCS: Revision 3.0.1.10  1997/02/28  15:06:39  ram
?RCS: patch61: added support for src.U
?RCS: patch61: new OSNAME define
?RCS: patch61: can now sense new OSes
?RCS:
?RCS: Revision 3.0.1.9  1995/07/25  13:40:51  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
```

```
?RCS: Revision 3.0.1.8  1995/05/12  12:04:18  ram
?RCS: patch54: config.sh reload logic now knows about new -K switch
?RCS: patch54: cleaned up and extended osvers for DEC
 OSF/1 (ADO)
?RCS: patch54: added MachTen detection (ADO)
?RCS:
?RCS: Revision 3.0.1.7  1995/02/15  14:13:41  ram
?RCS: patch51: adapted osvers computation for AIX (ADO)
?RCS:
?RCS: Revision 3.0.1.6  1995/01/30  14:27:15  ram
?RCS: patch49: unit Options.U now exports file optdef.sh, not a variable
?RCS: patch49: update code for myuname changed (WED)
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:15:36  ram
?RCS: patch45: added quotes around the INITPROG variable (ADO)
?RCS: patch45: allows variable overriding after config file loading
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  15:57:05  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: merged with the version used for perl5's Configure (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/05/06  14:24:17  ram
?RCS: patch23: added support for osf1 hints
?RCS: patch23: new support for solaris and i386 systems (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:05:02  ram
?RCS: patch16: added post-processing on myuname for Xenix targets
?RCS:
 patch16: message proposing config.sh defaults made consistent
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  15:56:32  ram
?RCS: patch10: force use of config.sh when -d option is used (WAD)
?RCS: patch10: complain about non-existent hint files (WAD)
?RCS: patch10: added Options dependency for fastread variable
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:12  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit tries to remember what we did last time we ran Configure, mostly
?X: for the sake of setting defaults.
?X:
?MAKE:Oldconfig hint myuname osname osvers: Instruct Myread uname \
 Checkcc Mksymlinks run \
 sh awk sed test cat rm lns tr n c contains Loc Options Tr src trnl ln
?MAKE: -pick wipe $@ %<
?S:myuname:
?S: The output of 'uname -a' if available, otherwise the hostname.
```

```
?S: The whole thing is then lower-cased and slashes and single quotes are
?S: removed.
?S:.
?S:hint:
?S: Gives the type of hints used for previous answers. May be one of
?S: "default",
 "recommended" or "previous".
?S:.
?S:osname:
?S: This variable contains the operating system name (e.g. sunos,
?S: solaris, hpux, etc.).  It can be useful later on for setting
?S: defaults.  Any spaces are replaced with underscores.  It is set
?S: to a null string if we can't figure it out.
?S:.
?S:osvers:
?S: This variable contains the operating system version (e.g.
?S: 4.1.3, 5.2, etc.).  It is primarily used for helping select
?S: an appropriate hints file, but might be useful elsewhere for
?S: setting defaults.  It is set to '' if we can't figure it out.
?S: We try to be flexible about how much of the version number
?S: to keep, e.g. if 4.1.1, 4.1.2, and 4.1.3 are essentially the
?S: same for this package, hints files might just be os_4.0 or
?S: os_4.1, etc., not keeping separate files for each little release.
?S:.
?C:OSNAME:
?C: This symbol contains the name of the operating system, as determined
?C: by Configure.  You shouldn't rely on it too much; the specific
?C: feature tests
 from Configure are generally more reliable.
?C:.
?C:OSVERS:
?C: This symbol contains the version of the operating system, as determined
?C: by Configure.  You shouldn't rely on it too much; the specific
?C: feature tests from Configure are generally more reliable.
?C:.
?H:#define OSNAME "$osname"  /**/
?H:#define OSVERS "$osvers"  /**/
?H:.
?F:!config.sh
?T:tmp tmp_n tmp_c tmp_sh file
?T:xxxxfile xxxfile xxfile xfile hintfile newmyuname
?T:tans _ isesix INITPROG DJGPP
?D:osname=''
?LINT:change n c sh
?LINT:extern targetarch
?LINT:extern hostarch
?LINT:change hostarch
?LINT:extern is_os2
```

```
: Try to determine whether config.sh was made on this system
case "$config_sh" in
")
?X: indentation wrong on purpose--RAM
?X: Leave a white space between first two '(' for ksh. The sub-shell is needed
?X: on some machines to avoid the error message when uname is not found; e.g.
?X: old SUN-OS 3.2 would not execute hostname in (uname -a || hostname). Sigh!
?X: Now not using a subshell but instead $test.
myuname=`$uname
 -a 2>/dev/null`
$test -z "$myuname" && myuname=`hostname 2>/dev/null`
# Downcase everything to avoid ambiguity.
# Remove slashes and single quotes so we can use parts of this in
# directory and file names.
# Remove newlines so myuname is sane to use elsewhere.
# tr '[A-Z]' '[a-z]' would not work in EBCDIC
# because the A-Z/a-z are not consecutive.
myuname=`echo $myuname | $sed -e "s,['/],,g" | \
 ./tr '[A-Z]' '[a-z]' | $tr $trnl ' '`
?X: Save the value we just computed to reset myuname after we get done here.
newmyuname="$myuname"
dflt=n
case "$knowitall" in
")
 if test -f ../config.sh; then
  if $contains myuname= ../config.sh >/dev/null 2>&1; then
   eval "`grep myuname= ../config.sh`"
  fi
  if test "X$myuname" = "X$newmyuname"; then
   dflt=y
  fi
 fi
 ;;
*) dflt=y;;
esac

@if {test -d ../hints}
: Get old answers from old config file if Configure was run on the
: same system, otherwise use the hints.
hint=default
cd ..
?X: Since we are now at the root of the source
 tree, we must use $src
?X: to access the sources and not $rsrc. See src.U for details...
if test -f config.sh; then
 echo " "
 rp="I see a config.sh file.  Shall I use it to set the defaults?"
 . UU/myread
```

```
 case "$ans" in
 n*|N*) echo "OK, I'll ignore it."
  mv config.sh config.sh.old
  myuname="$newmyuname"
  ;;
 *)  echo "Fetching default answers from your old config.sh file..." >&4
  tmp_n="$n"
  tmp_c="$c"
  tmp_sh="$sh"
  . ./config.sh
  cp config.sh UU
  n="$tmp_n"
  c="$tmp_c"
  : Older versions did not always set $sh.  Catch re-use of such
  : an old config.sh.
  case "$sh" in
  ") sh="$tmp_sh" ;;
  esac
  hint=previous
  ;;
 esac
fi
. ./UU/checkcc
if test ! -f config.sh; then
 $cat <<EOM

First time through, eh?  I have some defaults handy for some systems
that need some extra help getting the Configure answers right:

EOM
 (cd $src/hints; ls -C *.sh) | $sed 's/\.sh/   /g' >&4
 dflt="
 : Half the following guesses are probably wrong... If you have better
 : tests or hints,
 please send them to <MAINTLOC>
 : The metaconfig authors would also appreciate a copy...
 $test -f /irix && osname=irix
 $test -f /xenix && osname=sco_xenix
 $test -f /dynix && osname=dynix
 $test -f /dnix && osname=dnix
 $test -f /lynx.os && osname=lynxos
 $test -f /unicos && osname=unicos && osvers=`$uname -r`
 $test -f /unicosmk && osname=unicosmk && osvers=`$uname -r`
 $test -f /unicosmk.ar && osname=unicosmk && osvers=`$uname -r`
 $test -f /bin/mips && /bin/mips && osname=mips
 $test -d /usr/apollo/bin && osname=apollo
 $test -f /etc/saf/_sactab && osname=svr4
 $test -d /usr/include/minix && osname=minix && osvers=`$uname -r`
```

```
 $test -f /system/gnu_library/bin/ar.pm && osname=vos
 $test -f /sys/utilities/MultiView && osname=amigaos
 if $test -d /MachTen -o -d /MachTen_Folder; then
?X:  MachTen uname -a output looks like
?X:  xxx 4 0.0 Macintosh
?X:  MachTen /sbin/version output looks like
?X:  MachTen 4.0 Mon Aug 28 10:18:00 1995
?X:  MachTen 3.x had the 'version' command in /usr/etc/version.
  osname=machten
  if
 $test -x /sbin/version; then
   osvers=`/sbin/version | $awk '{print $2}' |
   $sed -e 's/[A-Za-z]$//'`
  elif $test -x /usr/etc/version; then
   osvers=`/usr/etc/version | $awk '{print $2}' |
   $sed -e 's/[A-Za-z]$//'`
  else
   osvers="$2.$3"
  fi
 fi

 $test -f /sys/posix.dll &&
  $test -f /usr/bin/what &&
  set X `/usr/bin/what /sys/posix.dll` &&
  $test "$3" = UWIN &&
  osname=uwin &&
  osvers="$5"

?X: If we have uname, we already computed a suitable uname -a output,
?X: and it lies in $myuname.
 if $test -f $uname; then
  set X $myuname
  shift

  case "$5" in
  fps*) osname=fps ;;
  mips*)
   case "$4" in
   umips) osname=umips ;;
   *) osname=mips ;;
   esac;;
  [23]100) osname=mips ;;
?X: Interactive Unix.
  i386*)
   tmp=`/bin/uname -X 2>/dev/null|awk '/3\.2v[45]/{ print $(NF) }'`
   if $test "$tmp" != "" -a "$3" = "3.2" -a -f '/etc/systemid'; then
    osname='sco'
    osvers=$tmp
```

```
  elif $test -f /etc/kconfig; then
   osname=isc
   if
 test "$lns" = "$ln -s"; then
    osvers=4
   elif $contains _SYSV3 /usr/include/stdio.h > /dev/null 2>&1 ; then
    osvers=3
   elif $contains _POSIX_SOURCE /usr/include/stdio.h > /dev/null 2>&1 ; then
    osvers=2
   fi
  fi
  tmp=''
  ;;
?X: MS-DOS djgpp uname -a output looks like:
?X: ms-dos xxx 6 22 pc
?X:  $1 is the "dos flavor" (need not be "ms-dos").
?X:  $2 is the node name
?X:  $3 and $4 are version/subversion
?X:  $5 is always "pc", but that might not be unique to DJGPP.
?X: (e.g. Solaris_x86 has $5 = i86pc, which doesn't actually conflict,
?X: but it's close enough that I can easily imagine other vendors also
?X: using variants of pc* in $5.)
?X:  The "DJGPP" environment variable is always set when djgpp is active.
 pc*)
  if test -n "$DJGPP"; then
   osname=dos
   osvers=djgpp
  fi
  ;;
 esac

 case "$1" in
 aix) osname=aix
?X: aix 4.1 uname -a output looks like
?X:  AIX  foo  1 4 000123456789
?X: where $4 is the major release number and $3 is the (minor)
 version.
?X: More detail on the version is available with the oslevel command.
?X: in 3.2.x, it output a string (see case statements below).  In 4.1,
?X: it puts out something like  4.1.1.0
  tmp=`( (oslevel) 2>/dev/null || echo "not found") 2>&1`
  case "$tmp" in
  # oslevel can fail with:
  # oslevel: Unable to acquire lock.
  *not\ found) osvers="$4"."$3" ;;
  '<3240'|'<>3240') osvers=3.2.0 ;;
  '=3240'|'>3240'|'<3250'|'<>3250') osvers=3.2.4 ;;
  '=3250'|'>3250') osvers=3.2.5 ;;
```

```
  *) osvers=$tmp;;
  esac
  ;;
 bitrig) osname=bitrig
  osvers="$3"
  ;;
 bsd386) osname=bsd386
  osvers=`$uname -r`
  ;;
 cygwin*) osname=cygwin
  osvers="$3"
  ;;
 *dc.osx) osname=dcosx
  osvers="$3"
  ;;
 dnix) osname=dnix
  osvers="$3"
  ;;
 domainos) osname=apollo
  osvers="$3"
  ;;
 dgux) osname=dgux
  osvers="$3"
  ;;
 dragonfly) osname=dragonfly
  osvers="$3"
  ;;
?X:  uname -a returns
?X:  DYNIX/ptx xxx 4.0 V4.1.2 i386
 dynixptx*) osname=dynixptx
  osvers=`echo
 "$4"|sed 's/^v//'`
  ;;
 freebsd) osname=freebsd
  osvers="$3" ;;
 genix) osname=genix ;;
?X: GNU/Hurd uname -a gives something like:
?X: GNU foo 0.3 GNU-Mach 1.4/Hurd-0.3 i386-AT386 GNU
?X: GNU gnu 0.3 GNUmach-1.2/Hurd-0.3 i386-AT386 GNU
?X: Note the hostname on the second one, which will fool Configure
?X: into using the SysV case!
 gnu) osname=gnu
  osvers="$3" ;;
?X: HP-UX uname -a gives something like
?X: HP-UX foobar B.10.20 A 9000/735 2016483812 two-user license
?X: Preserve the full 10.20 string instead of the previous plain '10'.
?X:  Thanks to Graham Barr.    --AD 6/30/1998
 hp*) osname=hpux
```

```
 osvers=`echo "$3" | $sed 's,.*\.\([0-9]*\.[0-9]*\),\1,'`
 ;;
irix*) osname=irix
 case "$3" in
 4*) osvers=4 ;;
 5*) osvers=5 ;;
 *) osvers="$3" ;;
 esac
 ;;
linux) osname=linux
 case "$3" in
 *) osvers="$3" ;;
 esac
 $test -f /system/lib/libandroid.so && osname=linux-android
 ;;
MiNT) osname=mint
 ;;
minix) osname=minix
 osvers=`$uname -r`
 ;;
netbsd*)
osname=netbsd
 osvers="$3"
 ;;
news-os) osvers="$3"
 case "$3" in
 4*) osname=newsos4 ;;
 *) osname=newsos ;;
 esac
 ;;
nonstop-ux) osname=nonstopux ;;
openbsd) osname=openbsd
 osvers="$3"
 ;;
os2) osname=os2
 osvers="$4"
 ;;
POSIX-BC | posix-bc ) osname=posix-bc
 osvers="$3"
 ;;
powerux | power_ux | powermax_os | powermaxos | \
powerunix | power_unix) osname=powerux
 osvers="$3"
 ;;
qnx) osname=qnx
 osvers="$4"
 ;;
solaris) osname=solaris
```

```
  case "$3" in
  5*) osvers=`echo $3 | $sed 's/^5/2/g'` ;;
  *) osvers="$3" ;;
  esac
  ;;
 sunos) osname=sunos
  case "$3" in
  5*) osname=solaris
   osvers=`echo $3 | $sed 's/^5/2/g'` ;;
  *) osvers="$3" ;;
  esac
  ;;
 titanos) osname=titanos
  case "$3" in
  1*) osvers=1 ;;
  2*) osvers=2 ;;
  3*) osvers=3 ;;
  4*) osvers=4 ;;
  *) osvers="$3" ;;
  esac
  ;;
 ultrix) osname=ultrix
  osvers="$3"
  ;;
 osf1|mls+) case "$5" in
   alpha)
?X: DEC OSF/1 myuname
 -a output looks like:  osf1 xxxx t3.2 123.4 alpha
?X: where the version number can be something like [xvt]n.n
    osname=dec_osf
?X: sizer knows the minor minor version: the letter
    osvers=`sizer -v | awk -FUNIX '{print $2}' | awk '{print $1}' |  tr '[A-Z]' '[a-z]' | sed 's/^[xvt]//'`
    case "$osvers" in
    [1-9].[0-9]*) ;;
    *) osvers=`echo "$3" | sed 's/^[xvt]//'` ;;
    esac
    ;;
  hp*) osname=hp_osf1 ;;
  mips) osname=mips_osf1 ;;
?X: hp and mips were unsupported Technology Releases -- ADO, 24/10/94
  esac
  ;;
 # UnixWare 7.1.2 is known as Open UNIX 8
 openunix|unixware) osname=svr5
  osvers="$4"
  ;;
 uts) osname=uts
  osvers="$3"
```

```
 ;;
vos) osvers="$3"
 ;;
$2) case "$osname" in
 *isc*) ;;
 *freebsd*) ;;
 svr*)
  : svr4.x or possibly later
  case "svr$3" in
  ${osname}*)
   osname=svr$3
   osvers=$4
   ;;
  esac
  case "$osname" in
  svr4.0)
   : Check for ESIX
   if test -f /stand/boot ; then
    eval `grep '^INITPROG=[a-z/0-9]*$'
/stand/boot`
    if test -n "$INITPROG" -a -f "$INITPROG"; then
  isesix=`strings -a $INITPROG|grep 'ESIX SYSTEM V/386 Release 4.0'`
     if test -n "$isesix"; then
      osname=esix4
     fi
    fi
   fi
   ;;
  esac
  ;;
 *) if test -f /etc/systemid; then
   osname=sco
   set `echo $3 | $sed 's/\./ /g'` $4
   if $test -f $src/hints/sco_$1_$2_$3.sh; then
    osvers=$1.$2.$3
   elif $test -f $src/hints/sco_$1_$2.sh; then
    osvers=$1.$2
   elif $test -f $src/hints/sco_$1.sh; then
    osvers=$1
   fi
  else
   case "$osname" in
   ") : Still unknown.  Probably a generic Sys V.
    osname="sysv"
    osvers="$3"
    ;;
   esac
  fi
```

```
   ;;
  esac
  ;;
 *) case "$osname" in
  ") : Still unknown.  Probably a generic BSD.
   osname="$1"
   osvers="$3"
   ;;
  esac
  ;;
 esac
else
?X: Try to identify sony's NEWS-OS (BSD unix)
 if test -f /vmunix -a -f $src/hints/news_os.sh; then
  (what /vmunix | UU/tr '[A-Z]'
'[a-z]') > UU/kernel.what 2>&1
  if $contains news-os UU/kernel.what >/dev/null 2>&1; then
   osname=news_os
  fi
  $rm -f UU/kernel.what
?X: Maybe it's OS/2 or DOS or something similar
 elif test -d c:/. -o -n "$is_os2" ; then
  set X $myuname
  osname=os2
  osvers="$5"
 fi
fi

    case "$targetarch" in
    ") ;;
    *)  hostarch=$osname
       case "$targetarch" in
          nto*|*-nto-*)
             # Will load qnx.sh, which should change osname to nto
             osname=qnx
             osvers="
             ;;
          *linux-android*)
             # Catch arm-linux-androideabi, mipsel-linux-android,
             # and i686-linux-android
             osname=linux-android
             osvers="
             ;;
          *linux*)
             # Something like arm-linux-gnueabihf is really just
             # plain linux.
             osname=linux
```

```
            osvers=''
            ;;
          *solaris*|*sunos*)
            osname=solaris
            # XXX perhaps we should just assume
            # osvers to be 2, or maybe take the value
            # from targetarch. Using $run before the
            # hints are run is somewhat icky.
            set X `$run $uname -a 2>/dev/null`
            shift
            case "$3" in
              5*) osvers=`echo $3 | $sed 's/^5/2/g'` ;;
              *)  osvers="$3" ;;
            esac
            ;;
          *)
    osname=`echo $targetarch|sed 's,^[^-]*-,,'`
    osvers=''
          ;;
        esac
        ;;
     esac

: Now look for a hint file osname_osvers, unless one has been
: specified already.
case "$hintfile" in
''|' ')
 file=`echo "${osname}_${osvers}" | $sed -e 's%\.%_%g' -e 's%_$%%'`
 : Also try without trailing minor version
numbers.
 xfile=`echo $file | $sed -e 's%_[^_]*$%%'`
 xxfile=`echo $xfile | $sed -e 's%_[^_]*$%%'`
 xxxfile=`echo $xxfile | $sed -e 's%_[^_]*$%%'`
 xxxxfile=`echo $xxxfile | $sed -e 's%_[^_]*$%%'`
 case "$file" in
 '') dflt=none ;;
 *)  case "$osvers" in
  '') dflt=$file
   ;;
  *)  if $test -f $src/hints/$file.sh ; then
    dflt=$file
   elif $test -f $src/hints/$xfile.sh ; then
    dflt=$xfile
   elif $test -f $src/hints/$xxfile.sh ; then
    dflt=$xxfile
   elif $test -f $src/hints/$xxxfile.sh ; then
    dflt=$xxxfile
   elif $test -f $src/hints/$xxxxfile.sh ; then
```

```
    dflt=$xxxxfile
   elif $test -f "$src/hints/${osname}.sh" ; then
    dflt="${osname}"
   else
    dflt=none
   fi
   ;;
  esac
  ;;
 esac
 if $test -f Policy.sh ; then
  case "$dflt" in
  *Policy*) ;;
  none) dflt="Policy" ;;
  *) dflt="Policy $dflt" ;;
  esac
 fi
 ;;
*)
 dflt=`echo $hintfile | $sed 's/\.sh$//'`
 ;;
esac

if $test -f Policy.sh ; then
 $cat <<EOM

There's also
 a Policy hint file available, which should make the
site-specific (policy) questions easier to answer.
EOM

 fi

 $cat <<EOM

You may give one or more space-separated answers, or "none" if appropriate.
If you have a handcrafted Policy.sh file or a Policy.sh file generated by a
previous run of Configure, you may specify it as well as or instead of
OS-specific hints.  If hints are provided for your OS, you should use them:
although Perl can probably be built without hints on many platforms, using
hints often improve performance and may enable features that Configure can't
set up on its own. If there are no hints that match your OS, specify "none";
DO NOT give a wrong version or a wrong OS.

EOM

 rp="Which of these apply, if any?"
 . UU/myread
```

```
 tans=$ans
 for file in $tans; do
  if $test X$file = XPolicy -a -f Policy.sh; then
   . Policy.sh
   $cat Policy.sh >> UU/config.sh
  elif $test -f $src/hints/$file.sh; then
   . $src/hints/$file.sh
   $cat $src/hints/$file.sh >> UU/config.sh
  elif
$test X"$tans" = X -o X"$tans" = Xnone ; then
   : nothing
  else
   : Give one chance to correct a possible typo.
   echo "$file.sh does not exist"
   dflt=$file
   rp="hint to use instead?"
   . UU/myread
   for file in $ans; do
    if $test -f "$src/hints/$file.sh"; then
     . $src/hints/$file.sh
     $cat $src/hints/$file.sh >> UU/config.sh
    elif $test X$ans = X -o X$ans = Xnone ; then
     : nothing
    else
     echo "$file.sh does not exist -- ignored."
    fi
   done
  fi
 done

 hint=recommended
 : Remember our hint file for later.
 if $test -f "$src/hints/$file.sh" ; then
  hintfile="$file"
 else
  hintfile=''
 fi
fi
cd UU
?X: From here on, we must use $rsrc instead of $src
@else
: Get old answers, if there is a config file out there
hint=default
hintfile=''
if test -f ../config.sh; then
 echo " "
 rp="I see a config.sh file.  Shall I use it to set the defaults?"
 . ./myread
```

```
 case "$ans" in
 n*|N*) echo "OK, I'll ignore it.";;
 *)  echo "Fetching default answers from
 your old config.sh file..." >&4
  tmp_n="$n"
  tmp_c="$c"
  . ../config.sh
  cp ../config.sh .
  n="$tmp_n"
  c="$tmp_c"
  hint=previous
  ;;
 esac
fi
@end
?X: remember, indentation is wrong--RAM
;;
*)
 echo " "
 echo "Fetching default answers from $config_sh..." >&4
 tmp_n="$n"
 tmp_c="$c"
 cd ..
?X: preserve symbolic links, if any
 cp $config_sh config.sh 2>/dev/null
 chmod +w config.sh
 . ./config.sh
 cd UU
 cp ../config.sh .
 n="$tmp_n"
 c="$tmp_c"
 hint=previous
 ;;
esac
. ./optdef.sh

: Restore computed paths
for file in $loclist $trylist; do
 eval $file="\$_$file"
done

@if osname || osvers
cat << EOM

Configure uses the operating system name and version to set some defaults.
The default value is probably right if the name rings a bell. Otherwise,
since spelling matters for me, either accept the default or answer "none"
to leave it blank.
```

```
EOM
@end
@if osname
case "$osname" in
 "|' ')
  case "$hintfile" in
  "|' '|none) dflt=none ;;
  *)  dflt=`echo $hintfile | $sed -e 's/\.sh$//'
 -e 's/_.*$//'` ;;
  esac
  ;;
 *) dflt="$osname" ;;
esac
rp="Operating system name?"
. ./myread
case "$ans" in
none)  osname=" ;;
*) osname=`echo "$ans" | $sed -e 's/[  ][ ]*/_/g' | ./tr '[A-Z]' '[a-z]'`;;
esac
@end
@if osvers
@if osname
echo " "
@end
case "$osvers" in
 "|' ')
  case "$hintfile" in
  "|' '|none) dflt=none ;;
  *) dflt=`echo $hintfile | $sed -e 's/\.sh$//' -e 's/^[^_]*//'`
   dflt=`echo $dflt | $sed -e 's/^_//' -e 's/_/./g'`
   case "$dflt" in
   "|' ') dflt=none ;;
   esac
   ;;
  esac
  ;;
 *) dflt="$osvers" ;;
esac
rp="Operating system version?"
. ./myread
case "$ans" in
none)  osvers=" ;;
*) osvers="$ans" ;;
esac

@end
```

```
. ./posthint.sh
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Oldconfig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: pager.U,v $
?RCS: Revision 3.0.1.2  1995/01/30  14:41:26  ram
?RCS: patch49: ensure dflt gets initialized in case no pagers are found (WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:27:45  ram
?RCS: patch36: replaced Myread by Getfile in the dependency line
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:30  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:pager: pg more less Getfile Oldconfig
?MAKE: -pick add $@ %<
?S:pager:
?S: This variable contains the name of the preferred pager
 on the system.
?S: Usual values are (the full pathnames of) more, less, pg, or cat.
?S:.
: locate the preferred pager for this system
fn=f/
case "$pager" in
")
 dflt="
 case "$pg" in
 /*) dflt=$pg;;
 [a-zA-Z]:/*) dflt=$pg;;
 esac
 case "$more" in
 /*) dflt=$more;;
 [a-zA-Z]:/*) dflt=$more;;
 esac
 case "$less" in
```

```
 /*) dflt=$less;;
 [a-zA-Z]:/*) dflt=$less;;
 esac
 case "$dflt" in
 ") dflt=/usr/ucb/more;;
 esac
 ;;
*) dflt="$pager"
 ;;
esac
?X: Instruct ./getfile to trust the default pager value,
?X: even if it does not begin with a slash.  For example, on os2,
?X: pager might be cmd /c more.  Also, it might include some options,
?X: such as '/usr/bin/less -R'.  ./getfile would report that
?X: "/usr/bin/less -R" doesn't exist.
?X: See comments in Getfile.U.
fn="f/($dflt)"
echo " "
rp='What pager is used on your system?'
. ./getfile
pager="$ans"
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/pager.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Loc.U 14 2006-08-28 16:51:14Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Loc.U,v $
?RCS: Revision 3.0.1.10  1997/02/28  15:04:16  ram
?RCS: patch61: allow users to specify paths on the command line
?RCS: patch61: will now substitute cp for ln if not supported
?RCS:
?RCS: Revision 3.0.1.9  1995/09/25  09:11:24  ram
?RCS: patch59: commented the purpose of the #un-def directive
?RCS: patch59: abort Configure run when mandatory command is missing
?RCS:
?RCS: Revision 3.0.1.8  1995/07/25  13:40:40  ram
?RCS: patch56: now knows about
```

```
 OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.7  1995/01/11  15:13:37  ram
?RCS: patch45: protected "sh -c" within backquotes for Linux and SGI
?RCS: patch45: added path lookup for the 'comm' program
?RCS:
?RCS: Revision 3.0.1.6  1994/10/29  15:56:14  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: be careful and guard against wildcard searching (ADO)
?RCS:
?RCS: Revision 3.0.1.5  1994/06/20  06:54:55  ram
?RCS: patch30: now locates find
?RCS:
?RCS: Revision 3.0.1.4  1994/05/13  15:18:15  ram
?RCS: patch27: added byacc to the trylist (ADO)
?RCS: patch27: lint lines reformatted (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/01/24  14:01:44  ram
?RCS: patch16: added metalint hint on changed PATH variable
?RCS:
?RCS: Revision 3.0.1.2  1993/12/15  08:16:52  ram
?RCS: patch15: now set _test variable when test is built-in
?RCS: patch15: fixed rare cases where echo is not needed
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  15:47:13  ram
?RCS: patch10: test program not always
 in /bin/test (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script "loc" which can be used to find out
?X: where in a list of directories something is.  It then uses loc to
?X: determine the location of commonly used programs.  It leaves loc sitting
?X: around for other Configure units to use, but arranges for its demise
?X: at the end of Configure.
?X:
?X: To add a new program to find, add it both to the ?MAKE: line and to either
?X: the loclist or trylist variable.
?X:
?X: I put startsh at the end of the dependency list, in order to avoid the
?X: loading of the spitshell unit before the instructions.
?X:
?MAKE:Loc awk ar bash bison byacc cat chgrp chmod chown \
 comm compress cp cpio cpp csh date echo egrep emacs expr find flex \
 gmake gzip grep inews ksh less line lint ln lp lpr ls mail mailx \
 make mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \
```

```
 shar sleep smail sort
 submit tail tar tbl tee test touch tr troff \
 uname uniq uuname vi zcat zip: eunicefix n c startsh Instruct sysroot
?MAKE: -pick weed $@ %<
?LINT:describe awk ar bash bison byacc cat chgrp chmod chown \
 comm compress cp cpio cpp csh date echo egrep emacs expr find flex \
 gmake gzip grep inews ksh less line lint ln lp lpr ls mail mailx \
 make mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \
 shar sleep smail sort submit tail tar tbl tee test touch tr troff \
 uname uniq uuname vi zcat zip
?V::pth loclist trylist
?F:./loc test_h
?T:thisthing thing xxx dir file say _test DJGPP
?LINT:change PATH _egrep _ln _make _less
?LINT:extern _exe
: find out where common programs are
echo " "
echo "Locating common programs..." >&4
cat <<EOSC >loc
$startsh
case \$# in
0) exit 1;;
esac
thing=\$1
shift
dflt=\$1
shift
for dir in \$*; do
 case "\$thing" in
 .)
 if test -d \$dir/\$thing; then
  echo \$dir
  exit 0
 fi
 ;;
 *)
?X: Be careful in case thing includes wildcards that might expand
 to multiple
?X: files.  Choose the last one.  This happens when searching for shared
?X: libraries with version numbers.  How to choose which one we want is
?X: probably an insoluble problem, in general.
?X: Some folks leave things like libc.so.orig around w/o read
?X: permission.  A -r test would handle that, but since ./loc is
?X: also used to find executables (which are installed w/o read
?X: permission on SCO ODT 3.0, we can't include the -r test.
?X: If you need to use an _exe that is different from .exe
?X: you need to set it in Head.U.
 for thisthing in \$dir/\$thing; do
```

```
  : just loop through to pick last item
 done
 if test -f \$thisthing; then
  echo \$thisthing
  exit 0
 elif test "X$_exe" != X -a -f \$thisthing$_exe; then
  echo \$thisthing
  exit 0
 elif test -f \$dir/\$thing.exe; then
  if test -n "$DJGPP"; then
   echo \$dir/\$thing.exe
  elif test "$eunicefix" != ":"; then
   : on Eunice apparently
   echo \$dir/\$thing
  fi
  exit 0
 fi
 ;;
 esac
done
echo \$dflt
exit
 1
EOSC
chmod +x loc
$eunicefix loc
loclist="
?awk:awk
?cat:cat
?chgrp:chgrp
?chmod:chmod
?chown:chown
?comm:comm
?cp:cp
?echo:echo
?expr:expr
?find:find
?grep:grep
?ls:ls
?mkdir:mkdir
?mv:mv
?rm:rm
?sed:sed
?sleep:sleep
?sort:sort
?tail:tail
?touch:touch
?tr:tr
```

```
?uniq:uniq
"
trylist="
?Mcc:Mcc
?ar:ar
?bash:bash
?bison:bison
?byacc:byacc
?compress:compress
?cpio:cpio
?cpp:cpp
?csh:csh
?date:date
?egrep:egrep
?emacs:emacs
?flex:flex
?gmake:gmake
?gzip:gzip
?inews:inews
?ksh:ksh
?less:less
?line:line
?lint:lint
?ln:ln
?lp:lp
?lpr:lpr
?mail:mail
?mailx:mailx
?make:make
?more:more
?nm:nm
?nroff:nroff
?perl:perl
?pg:pg
?pmake:pmake
?pr:pr
?rmail:rmail
?sendmail:sendmail
?shar:shar
?smail:smail
?submit:submit
?tar:tar
?tbl:tbl
?tee:tee
?test:test
?troff:troff
?uname:uname
?uuname:uuname
```

```
?vi:vi
?zcat:zcat
?zip:zip
"
?LINT:set awk ar bash bison byacc cat chgrp chmod chown \
 comm compress cp cpio cpp csh date echo emacs expr find flex \
 gmake gzip grep inews ksh line lint lp lpr ls mail mailx
 \
 mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \
 shar sleep smail sort submit tail tar tbl tee touch tr troff \
 uname uniq uuname vi zcat zip
pth=`echo $PATH | sed -e "s/$p_/ /g"`
pth="$pth $sysroot/lib $sysroot/usr/lib"
for file in $loclist; do
?X:
?X: Allow them to -Dmake=pmake on the command line for instance...
?X: If the file is not fully qualified, as in -Dmake=pmake, then we
?X: look the for the specified command (pmake here). If they say
?X: -Dmake=/sbin/make for instance, then we make sure the file
?X: exists, or we die...
?X:
 eval xxx=\$$file
 case "$xxx" in
 /*|?:[\\/]*)
  if test -f "$xxx"; then
   : ok
  else
   echo "WARNING: no $xxx -- ignoring your setting for $file." >&4
   xxx=`./loc $file $file $pth`
  fi
  ;;
 ") xxx=`./loc $file $file $pth`;;
 *) xxx=`./loc $xxx $xxx $pth`;;
 esac
 eval $file=$xxx$_exe
 eval _$file=$xxx
 case "$xxx" in
 /*)
  echo $file is in $xxx.
  ;;
?X: Under OS/2, we have PC-like paths
 ?:[\\/]*)
  echo $file is in $xxx.
  ;;
 *)
  echo
 "I don't know where '$file' is, and my life depends on it." >&4
  echo "Go find a public domain implementation or fix your PATH setting!" >&4
```

```
  exit 1
  ;;
 esac
done
echo " "
echo "Don't worry if any of the following aren't found..."
say=offhand
for file in $trylist; do
?X: Allow them to -Dmake=pmake on the command line for instance (see above)
 eval xxx=\$$file
 case "$xxx" in
 /*|?:[\\/]*)
  if test -f "$xxx"; then
   : ok
  else
   echo "WARNING: no $xxx -- ignoring your setting for $file." >&4
   xxx=`./loc $file $file $pth`
  fi
  ;;
 ") xxx=`./loc $file $file $pth`;;
 *) xxx=`./loc $xxx $xxx $pth`;;
 esac
 eval $file=$xxx$_exe
 eval _$file=$xxx
 case "$xxx" in
 /*)
  echo $file is in $xxx.
  ;;
?X: Under OS/2, we have PC-like paths
 ?:[\\/]*)
  echo $file is in $xxx.
  ;;
 *)
  echo "I don't see $file out there, $say."
  say=either
  ;;
 esac
done
case "$egrep" in
egrep)
 echo "Substituting grep for egrep."
 egrep=$grep
 _egrep=$grep
 ;;
esac
@if less
case "$less"
```

```
 in
") ;;
*) if $less -R </dev/null >/dev/null 2>&1; then
        echo "Substituting less -R for less."
        less="$less -R"
        _less=$less
 fi
 ;;
esac
@end
@if ln
case "$ln" in
ln)
 echo "Substituting cp for ln."
 ln=$cp
 _ln=$cp
 ;;
esac
@end
@if make || gmake
case "$make" in
make)
 case "$gmake" in
 gmake)
 echo "I can't find make or gmake, and my life depends on it." >&4
 echo "Go find a public domain implementation or fix your PATH setting!" >&4
 exit 1
 ;;
 esac
 ;;
esac
case "$gmake" in
gmake) ;;
*) # We can't have osname yet.
 if test -f "/system/gnu_library/bin/ar.pm"; then # Stratus VOS
  # Assume that gmake, if found, is definitely GNU make
  # and prefer it over the system make.
  echo "Substituting gmake for make."
  make=$gmake
  _make=$gmake
 fi
 ;;
esac
@end
case "$test" in
test)
 echo "Hopefully test is built into your sh."
 ;;
```

```
*)
 if `sh -c "PATH= test true" >/dev/null 2>&1`; then
  echo "Using the test built into your sh."
?X:
?X: We need to set both test
 and _test, since Oldconfig.U will use the _test
?X: value to systematically restore computed paths, which may be wrong if
?X: we choose to load an old config.sh generated on another platform.
?X:
  test=test
  _test=test
 fi
 ;;
esac
?LINT:change n c
case "$echo" in
echo)
 echo "Hopefully echo is built into your sh."
 ;;
?X: For those rare cases where we don't need $echo...
") ;;
*)
 echo " "
echo "Checking compatibility between $echo and builtin echo (if any)..." >&4
 $echo $n "hi there$c" >foo1
 echo $n "hi there$c" >foo2
 if cmp foo1 foo2 >/dev/null 2>&1; then
  echo "They are compatible.  In fact, they may be identical."
 else
  case "$n" in
  '-n') n=" c='\c';;
  *) n='-n' c=";;
  esac
  cat <<FOO
They are not compatible!  You are probably running ksh on a non-USG system.
I'll have to use $echo instead of the builtin, since Bourne shell doesn't
have echo built in and we may have to run some Bourne shell scripts.  That
means I'll have to use '$n$c' to suppress newlines now.
  Life is ridiculous.

FOO
  $echo $n "The star should be here-->$c"
  $echo "*"
 fi
 $rm -f foo1 foo2
 ;;
esac
```

```
?X: The next part is irrelevant to the real process
# This question was auctioned at YAPC::Europe-2007 in Vienna
# I never promised you could answer it. I only auctioned the question.
cat <<FOO
The following message is sponsored by

 Dresden.pm<--The stars should be here.

Dear Perl user, system administrator or package
maintainer, the Perl community sends greetings to
you. Do you (emblematical) greet back [Y/n]? n

FOO
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Loc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS:
?MAKE:i_fenv: Inhdr
?MAKE: -pick add $@ %<
?S:i_fenv:
?S: This variable conditionally defines the I_FENV symbol, which
?S: indicates to the C program that <fenv.h> exists and should
?S: be included.
?S:.
?C:I_FENV:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <fenv.h> to get the floating point environment definitions.
?C:.
?H:#$i_fenv I_FENV  /**/
?H:.
?LINT:set i_fenv
: see if this is a fenv.h system
set fenv.h i_fenv
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_fenv.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: getopt.C,v 3.0.1.1 1994/01/24 13:58:40 ram Exp ram $
*
```

```
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* Original Author: unknown, got this off net.sources
*
* $Log: getopt.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:40  ram
* patch16: created
*
*/
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/lib/C/fake/getopt.C
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_atolf: Inlibc
?MAKE: -pick add $@ %<
?S:d_atolf:
?S: This variable conditionally defines the HAS_ATOLF symbol, which
?S: indicates to the C program that the atolf() routine is available.
?S:.
?C:HAS_ATOLF:
?C: This symbol, if defined, indicates that the atolf routine is
?C: available to convert strings into long doubles.
?C:.
?H:#$d_atolf HAS_ATOLF  /**/
?H:.
?LINT:set d_atolf
: see if atolf exists
set atolf d_atolf
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/atolf.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_dld.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_dld.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:20:07  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:i_dld: Inhdr
?MAKE: -pick add $@ %<
?S:i_dld:
?S: This variable conditionally defines the I_DLD symbol, which
?S: indicates to the C program that <dld.h> (GNU dynamic loading)
?S: exists and should be included.
?S:.
?C:I_DLD:
?C: This symbol, if defined, indicates that <dld.h>
 exists and should
?C: be included before using GNU dynamic loading features.
?C:.
?H:#$i_dld I_DLD /**/
?H:.
?LINT:set i_dld
: see if dld is available
set dld.h i_dld
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_dld.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Signal.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Signal.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:20:01  ram
?RCS: patch61: created
?RCS:
?X:
?X: This unit produces three files:
?X: 1- A signal.c file, which, when compiled and run, produces an output like:
?X:
?X:   HUP 1
?X:   INT 2
?X:   QUIT 3
?X:   etc...
?X:
?X: 2- A signal.awk script to parse the output of signal.c, fill
?X: in gaps (up to NSIG) and move duplicates to the end.
?X: 3- A signal_cmd script to compile signal.c and run it
?X: through
 sort -n -k 2 | uniq | awk -f signal.awk.
?X: (we try also sort -n +1 since some old hosts don't grok sort -k)
?X: (This is called signal_cmd to avoid OS/2 confusion with
?X: signal.cmd vs. signal.
?X: The signal_cmd script also falls back on checking signals one at a
?X: time in case the signal.c program fails.  On at least one version of
?X: Linux 2.1.x, the header file #define'd SIGRTMAX to a symbol that
?X: is not defined by the compiler/linker. :-(.  Further, on that same
?X: version of Linux, the user had a defective C-shell that gave an
?X: incorrect list for kill -l, so the fall-back didn't work.
?X:
?X: This unit is then used by sig_name.U.
?X:
?MAKE:Signal: test tr rm awk cat grep startsh eunicefix sed sort uniq \
 Findhdr cppstdin +cppflags cppminus Compile _o _exe trnl run i_stdlib \
 sysroot
?MAKE: -pick add $@ %<
?X:all files declared as "public" since they're used from other units
?F:signal.c signal_cmd signal.lst signal signal.awk
?T: xx xxx xxxfiles
?LINT:use rm run
 _o _exe
?LINT:extern sig_num_init
: Trace out the files included by signal.h, then look for SIGxxx names.
?X: Remove SIGARRAYSIZE used by HPUX.
?X: Remove SIGSTKSIZE used by Linux.
?X: Remove SIGSTKSZ used by POSIX.
```

```
?X: Remove SIGTYP void lines used by OS2.
?X: Some cpps, like os390, do not give the file name anywhere
case "$sig_num_init" in
")
if [ "X$fieldn" = X ]; then
 : Just make some guesses.  We check them later.
 xxx="$sysroot/usr/include/signal.h $sysroot/usr/include/sys/signal.h"
else
 xxx=`echo '#include <signal.h>' |
 $cppstdin $cppminus $cppflags 2>/dev/null |
 $grep '^[  ]*#.*include' |
 $awk "{print \\$$fieldn}" | $sed 's!"!!g' |\
  $sed 's!\\\\\\\\!/!g' | $sort | $uniq`
fi
?X: Check this list of files to be sure we have parsed the cpp output ok.
?X: This will also avoid potentially non-existent files, such
?X: as ../foo/bar.h
xxxfiles="
?X: Add /dev/null in case the $xxx list is empty.
for xx in $xxx /dev/null ; do
 $test -f "$xx" && xxxfiles="$xxxfiles $xx"
done
?X:
 If we have found no files, at least try signal.h
case "$xxxfiles" in
") xxxfiles=`./findhdr signal.h` ;;
esac
xxx=`awk '
$1 ~ /^#define$/ && $2 ~ /^SIG[A-Z0-9]*$/ && $2 !~ /SIGARRAYSIZE/ && $2 !~ /SIGSTKSIZE/ && $2 !~
/SIGSTKSZ/ && $3 !~ /void/ {
 print substr($2, 4, 20)
}
$1 == "#" && $2 ~ /^define$/ && $3 ~ /^SIG[A-Z0-9]*$/ && $3 !~ /SIGARRAYSIZE/ && $4 !~ /void/ {
 print substr($3, 4, 20)
}' $xxxfiles`
: Append some common names just in case the awk scan failed.
xxx="$xxx ABRT ALRM BUS CANCEL CHLD CLD CONT DIL EMT FPE"
xxx="$xxx FREEZE HUP ILL INT IO IOT KILL LOST LWP PHONE"
xxx="$xxx PIPE POLL PROF PWR QUIT RTMAX RTMIN SEGV STKFLT STOP"
xxx="$xxx SYS TERM THAW TRAP TSTP TTIN TTOU URG USR1 USR2"
xxx="$xxx USR3 USR4 VTALRM WAITING WINCH WIND WINDOW XCPU XFSZ"

: generate a few handy files for later
$cat > signal.c <<EOCP
#include <sys/types.h>
#include <signal.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
```

```
#include <stdlib.h>
#endif
#include <stdio.h>
int main() {

/* Strange style to avoid
 deeply-nested #if/#else/#endif */
#ifndef NSIG
#  ifdef _NSIG
#    define NSIG (_NSIG)
#  endif
#endif

#ifndef NSIG
#  ifdef SIGMAX
#    define NSIG (SIGMAX+1)
#  endif
#endif

#ifndef NSIG
#  ifdef SIG_MAX
#    define NSIG (SIG_MAX+1)
#  endif
#endif

#ifndef NSIG
#  ifdef _SIG_MAX
#    define NSIG (_SIG_MAX+1)
#  endif
#endif

#ifndef NSIG
#  ifdef MAXSIG
#    define NSIG (MAXSIG+1)
#  endif
#endif

#ifndef NSIG
#  ifdef MAX_SIG
#    define NSIG (MAX_SIG+1)
#  endif
#endif

#ifndef NSIG
#  ifdef SIGARRAYSIZE
#    define NSIG SIGARRAYSIZE /* Assume ary[SIGARRAYSIZE] */
#  endif
#endif
```

```
#ifndef NSIG
#  ifdef _sys_nsig
#    define NSIG (_sys_nsig) /* Solaris 2.5 */
#  endif
#endif

/* Default to some arbitrary number that's big enough to get most
  of the common signals.
*/
#ifndef NSIG
#    define NSIG 50
#endif

printf("NSIG %d\n", NSIG);

#ifndef JUST_NSIG

EOCP

echo $xxx | $tr ' ' $trnl | $sort | $uniq | $awk '
{
 printf "#ifdef SIG"; printf $1; printf "\n"
 printf "printf(\"";
 printf $1; printf " %%d\\n\",SIG";
 printf $1; printf ");\n"
 printf "#endif\n"
}
END {
 printf "#endif /* JUST_NSIG */\n";
 printf "exit(0);\n}\n";
}
' >>signal.c
$cat >signal.awk <<'EOP'
BEGIN { ndups = 0 }
$1 ~ /^NSIG$/ { nsig = $2 }
($1 !~ /^NSIG$/) && (NF == 2) && ($2 ~ /^[0-9][0-9]*$/) {
   if ($2 > maxsig) { maxsig = $2 }
   if (sig_name[$2]) {
 dup_name[ndups] = $1
 dup_num[ndups] = $2
 ndups++
   }
   else {
 sig_name[$2] = $1
 sig_num[$2] = $2
   }
}
```

```
END {
   if (nsig == 0) {
    nsig = maxsig + 1
   }
   printf("NSIG %d\n", nsig);
   for (n = 1; n < nsig; n++) {
 if (sig_name[n]) {
     printf("%s %d\n", sig_name[n], sig_num[n])
 }
 else {
     printf("NUM%d %d\n", n, n)
 }
   }
   for (n = 0; n < ndups; n++) {
 printf("%s %d\n", dup_name[n], dup_num[n])
   }
}
EOP
$cat >signal_cmd <<EOS
$startsh
if $test -s signal.lst; then
   echo "Using your existing signal.lst file"
 exit 0
fi
xxx="$xxx"
EOS
?X: Avoid variable interpolation problems, especially with
?X:
 xxx, which contains newlines.
$cat >>signal_cmd <<'EOS'

set signal
if eval $compile_ok; then
 $run ./signal$_exe | ($sort -n -k 2 2>/dev/null || $sort -n +1) |\
  $uniq | $awk -f signal.awk >signal.lst
else
 echo "(I can't seem be able to compile the whole test program)" >&4
 echo "(I'll try it in little pieces.)" >&4
 set signal -DJUST_NSIG
 if eval $compile_ok; then
  $run ./signal$_exe > signal.nsg
  $cat signal.nsg
 else
  echo "I can't seem to figure out how many signals you have." >&4
  echo "Guessing 50." >&4
  echo 'NSIG 50' > signal.nsg
 fi
 : Now look at all the signal names, one at a time.
```

```
 for xx in `echo $xxx | $tr ' ' $trnl | $sort | $uniq`; do
  $cat > signal.c <<EOCP
#include <sys/types.h>
#include <signal.h>
#include <stdio.h>
int main() {
printf("$xx %d\n", SIG${xx});
return 0;
}
EOCP
  set signal
  if eval $compile; then
   echo "SIG${xx} found."
   $run ./signal$_exe  >> signal.ls1
  else
   echo "SIG${xx} NOT found."
  fi
 done
 if $test -s signal.ls1; then
  $cat
 signal.nsg signal.ls1 |
   $sort -n | $uniq | $awk -f signal.awk >signal.lst
 fi

fi
if $test -s signal.lst; then
 :
else
 echo "(AAK! I can't compile the test programs -- Guessing)" >&4
 echo 'kill -l' >signal
 set X `csh -f <signal`
 $rm -f signal
 shift
 case $# in
 0) set HUP INT QUIT ILL TRAP ABRT EMT FPE KILL BUS SEGV SYS PIPE ALRM TERM;;
 esac
 echo $@ | $tr ' ' $trnl | \
     $awk '{ printf "%s %d\n", $1, ++s; }
    END { printf "NSIG %d\n", ++s }' >signal.lst
fi
$rm -f signal.c signal$_exe signal$_o signal.nsg signal.ls1
EOS
chmod a+x signal_cmd
$eunicefix signal_cmd
;;
esac
```

Found in path(s):

* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Signal.U
No license file was found, but licenses were detected in source scan.

```
case $CONFIG in
")
 if test -f config.sh; then TOP=.;
 elif test -f ../config.sh; then TOP=..;
 elif test -f ../../config.sh; then TOP=../..;
 elif test -f ../../../config.sh; then TOP=../../..;
 elif test -f ../../../../config.sh; then TOP=../../../..;
 else
  echo "Can't find config.sh."; exit 1
 fi
 . $TOP/config.sh
 ;;
esac
case "$0" in
*/*) cd `expr X$0 : 'X\(.*\)/'` ;;
esac
echo "Extracting makedepend (with variable substitutions)"
$spitshell >makedepend <<!GROK!THIS!
$startsh
# $Id: makedepend.sh,v 3.0.1.1 1994/01/24 14:00:05 ram Exp ram $
#
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#  as specified in the README file that comes with the distribution.
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#  that same Artistic Licence; a copy of which may be found at the root
#  of the source tree for dist 4.0.
#
#
 Original Author: Larry Wall <lwall@netlabs.com>
#
# $Log: makedepend.sh,v $
# Revision 3.0.1.1  1994/01/24  14:00:05  ram
# patch16: changed top ln-style config.sh lookup into test-style one
#
# Revision 3.0  1993/08/18  12:04:37  ram
# Baseline for dist 3.0 netwide release.
#

export PATH || (echo "OOPS, this isn't sh.  Desperation time.  I will feed myself to sh."; sh \$0; kill \$\$)

cat='$cat'
cppflags='$cppflags'
```

```
cp='$cp'
cpp='$cppstdin'
echo='$echo'
egrep='$egrep'
expr='$expr'
mv='$mv'
rm='$rm'
sed='$sed'
sort='$sort'
test='$test'
tr='$tr'
uniq='$uniq'
!GROK!THIS!

$spitshell >>makedepend <<'!NO!SUBS!'

$cat /dev/null >.deptmp
$rm -f *.c.c c/*.c.c
if test -f Makefile; then
   mf=Makefile
else
   mf=makefile
fi
if test -f $mf; then
   defrule=`<$mf sed -n  \
 -e '/^\.c\.o:.*;/{'  \
 -e    's/\$\*\.c//'  \
 -e    's/^[^;]*;[  ]*//p' \
 -e    q    \
 -e '}'    \
 -e '/^\.c\.o: *$/{'  \
 -e    N    \
 -e    's/\$\*\.c//'  \
 -e    's/^.*\n[  ]*//p'  \
 -e    q    \
 -e '}'`
fi
case
 "$defrule" in
") defrule='$(CC) -c $(CFLAGS)' ;;
esac

make clist || ($echo "Searching for .c files..."; \
 $echo *.c | $tr ' ' '\012' | $egrep -v '\*' >.clist)
gotnone=true
for file in `$cat .clist`; do
# for file in `cat /dev/null`; do
   case "$file" in
```

```
  *.c) filebase=`basename $file .c` ;;
  *.y) filebase=`basename $file .c` ;;
  ")  continue ;;
  esac
  gotnone=false
  $echo "Finding dependencies for $filebase.o."
  $sed -n <$file >$file.c \
 -e "/^${filebase}_init(/q" \
 -e '/^#/{' \
 -e 's|/\*.*$||' \
 -e 's|\\$||' \
 -e p \
 -e '}'
  $cpp -I/usr/local/include -I. $cppflags $file.c | \
  $sed \
 -e '/^# *[0-9]/!d' \
 -e 's/^.*"\(.*\)".*$/'$filebase'.o: \1/' \
 -e 's|: \./|: |' \
 -e 's|\.c\.c|.c|' | \
  $uniq | $sort | $uniq >> .deptmp
done

$sed <Makefile >Makefile.new -e '1,/^# AUTOMATICALLY/!d'

make shlist || ($echo "Searching for .SH files..."; \
 $echo *.SH | $tr ' ' '\012' | $egrep -v '\*' >.shlist)
if $gotnone || $test -s .deptmp; then

  for file in `cat .shlist`; do
 $echo `$expr X$file : 'X\(.*\).SH`: $file config.sh \; \
    /bin/sh $file >> .deptmp
  done
  $echo "Updating Makefile..."
  $echo "# If this runs make out of memory, delete /usr/include lines." \
 >> Makefile.new
  $sed 's|^\(.*\.o:\) *\(.*/.*\.c\) *$|\1 \2; '"$defrule \2|" .deptmp \
     >>Makefile.new
else
  make hlist || ($echo "Searching for .h files..."; \
 $echo *.h | $tr ' ' '\012' | $egrep -v '\*' >.hlist)
  $echo "You don't seem to have a proper C preprocessor.  Using grep instead."
  $egrep '^#include ' `cat .clist` `cat .hlist`  >.deptmp
  $echo "Updating Makefile..."
  <.clist $sed -n       \
 -e '/\//{'       \
 -e   's|^\(.*\)/\(.*\)\.c|\2.o: \1/\2.c; '"$defrule \1/\2.c|p" \
 -e   d        \
 -e '}'        \
```

```
 -e 's|^\(.*\)\.c|\1.o: \1.c|p' >> Makefile.new
   <.hlist $sed -n 's|\(.*/\)\(.*\)|s= \2= \1\2=|p' >.hsed
   <.deptmp $sed -n 's|c:#include "\(.*\)".*$|o: \1|p' | \
      $sed 's|^[^;]*/||' | \
      $sed -f
 .hsed >> Makefile.new
   <.deptmp $sed -n 's|c:#include <\(.*\)>.*$|o: /usr/include/\1|p' \
      >> Makefile.new
   <.deptmp $sed -n 's|h:#include "\(.*\)".*$|h: \1|p' | \
      $sed -f .hsed >> Makefile.new
   <.deptmp $sed -n 's|h:#include <\(.*\)>.*$|h: /usr/include/\1|p' \
      >> Makefile.new
   for file in `$cat .shlist`; do
 $echo `$expr X$file : 'X\(.*\).SH`: $file config.sh \; \
     /bin/sh $file >> Makefile.new
   done
fi
$rm -f Makefile.old
$cp Makefile Makefile.old
$cp Makefile.new Makefile
$rm Makefile.new
$echo "# WARNING: Put nothing here or make depend will gobble it up!" >> Makefile
$rm -f .deptmp `sed 's/\.c/.c.c/' .clist` .shlist .clist .hlist .hsed

!NO!SUBS!
$eunicefix makedepend
chmod +x makedepend
case `pwd` in
*SH)
   $rm -f ../makedepend
   ln makedepend ../makedepend
   ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/lib/makedepend.SH
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```
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?RCS:
?MAKE:d_log1p: Inlibc
?MAKE: -pick add $@ %<
?S:d_log1p:
?S: This variable conditionally defines the HAS_LOG1P symbol, which
?S: indicates to the C program that the logp1() routine is available
?S: to compute log(1 + x) for values of x close to zero.
```

```
?S:.
?C:HAS_LOG1P:
?C: This symbol, if defined, indicates that the log1p routine is
?C: available to do the logarithm of 1 plus argument function.
?C:.
?H:#$d_log1p HAS_LOG1P  /**/
?H:.
?LINT:set d_log1p
: see if log1p exists
set log1p d_log1p
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_log1p.U
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```
?RCS: $Id: d_seteuid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_seteuid.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_seteuid: Inlibc
?MAKE: -pick add $@ %<
?S:d_seteuid:
?S: This variable conditionally defines the HAS_SETEUID symbol, which
?S: indicates to the C program that the seteuid() routine is available
?S: to change the effective uid of the current program.
?S:.
?C:HAS_SETEUID (SETEUID):
?C: This symbol, if defined, indicates that the seteuid
 routine is available
?C: to change the effective uid of the current program.
?C:.
?H:#$d_seteuid HAS_SETEUID  /**/
?H:.
?LINT:set d_seteuid
: see if seteuid exists
set seteuid d_seteuid
```

```
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_seteuid.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:gidsign: Myread Typedef gidtype Compile run
?MAKE: -pick add $@ %<
?S:gidsign:
?S: This variable contains the signedness of a gidtype.
?S: 1 for unsigned, -1 for signed.
?S:.
?C:Gid_t_sign:
?C: This symbol holds the signedness of a Gid_t.
?C: 1 for unsigned, -1 for signed.
?C:.
?H:#define Gid_t_sign $gidsign  /* GID sign */
?H:.
?T:yyy zzz
?F:!try
: Check if GID is signed
echo " "
case "$gidtype" in
*_t) zzz="$gidtype" ;;
*)   zzz="gid"  ;;
esac
echo "Checking the sign of $zzz..." >&4
cat > try.c <<EOCP
#include <sys/types.h>
#include
 <stdio.h>
int main() {
 $gidtype foo = -1;
 if (foo < 0)
  printf("-1\n");
 else
  printf("1\n");
}
```

```
EOCP
set try
if eval $compile; then
 yyy=`$run ./try`
 case "$yyy" in
 ") gidsign=1
  echo "(I can't execute the test program--guessing unsigned.)" >&4
  ;;
 *) gidsign=$yyy
  case "$gidsign" in
   1) echo "Your $zzz is unsigned." ;;
  -1) echo "Your $zzz is signed."   ;;
  esac
  ;;
 esac
else
 gidsign=1
 echo "(I can't compile the test program--guessing unsigned.)" >&4
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/gidsign.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:need_va_copy: rm_try cat Compile run
?MAKE: -pick add $@ %<
?S:need_va_copy:
?S: This symbol, if defined, indicates that the system stores
?S: the variable argument list datatype, va_list, in a format
?S: that cannot be copied by simple assignment, so that some
?S: other means must be used when copying is required.
?S: As such systems vary in their provision (or non-provision)
?S: of copying mechanisms, handy.h defines a platform-
?S: independent macro, Perl_va_copy(src, dst), to do the job.
?S:.
?C:NEED_VA_COPY:
?C: This
```

```
 symbol, if defined, indicates that the system stores
?C: the variable argument list datatype, va_list, in a format
?C: that cannot be copied by simple assignment, so that some
?C: other means must be used when copying is required.
?C: As such systems vary in their provision (or non-provision)
?C: of copying mechanisms, handy.h defines a platform-
?C: independent macro, Perl_va_copy(src, dst), to do the job.
?C:.
?H:#$need_va_copy NEED_VA_COPY  /**/
?H:.
?T:okay
?F:!try
: see if we need va_copy
echo " "
$cat >try.c <<EOCP
#include <stdarg.h>
#include <stdio.h>
#include <stdlib.h>
#include <signal.h>

int
ivfprintf(FILE *f, const char *fmt, va_list *valp)
{
 return vfprintf(f, fmt, *valp);
}

int
myvfprintf(FILE *f, const  char *fmt, va_list val)
{
 return ivfprintf(f, fmt, &val);
}

int
myprintf(char *fmt, ...)
{
 va_list val;
 va_start(val, fmt);
 return myvfprintf(stdout, fmt, val);
}

int
main(int ac, char **av)
{
 signal(SIGSEGV, exit);
#ifdef SIGBUS
 signal(SIGBUS,
 exit);
#endif
```

```
 myprintf("%s%cs all right, then\n", "that", '\');
 exit(0);
}
EOCP
set try
if eval $compile && $run ./try 2>&1 >/dev/null; then
 case "`$run ./try`" in
 "that's all right, then")
  okay=yes
  ;;
 esac
fi
case "$okay" in
yes) echo "It seems that you don't need va_copy()." >&4
 need_va_copy="$undef"
 ;;
*) echo "It seems that va_copy() or similar will be needed." >&4
 need_va_copy="$define"
 ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/need_va_copy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setpwent.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_setpwent.U,v $
?RCS:
?MAKE:d_setpwent: Inlibc
?MAKE: -pick add $@ %<
?S:d_setpwent:
?S: This variable conditionally defines the HAS_SETPWENT symbol, which
?S: indicates to the C program that the setpwent() routine is available
?S: for initializing sequential access to the passwd database.
?S:.
?C:HAS_SETPWENT:
?C: This symbol, if defined, indicates that the setpwent routine is
?C: available for initializing sequential access of the passwd database.
?C:.
```

```
?H:#$d_setpwent HAS_SETPWENT  /**/
?H:.
?LINT:set d_setpwent
: see if setpwent exists
set setpwent d_setpwent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_setpwent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_flock.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_flock.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_flock: Inlibc
?MAKE: -pick add $@ %<
?S:d_flock:
?S: This variable conditionally defines HAS_FLOCK if flock() is
?S: available to do file locking.
?S:.
?C:HAS_FLOCK (FLOCK):
?C: This symbol, if defined, indicates that the flock routine is
?C: available to do file locking.
?C:.
?H:#$d_flock HAS_FLOCK  /**/
?H:.
?LINT:set d_flock
: see
 if flock exists
set flock d_flock
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_flock.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setrgid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setrgid.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setrgid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setrgid:
?S: This variable conditionally defines the HAS_SETRGID symbol, which
?S: indicates to the C program that the setrgid() routine is available
?S: to change the real gid of the current program.
?S:.
?C:HAS_SETRGID (SETRGID):
?C: This symbol, if defined, indicates that the setrgid
 routine is available
?C: to change the real gid of the current program.
?C:.
?H:#$d_setrgid HAS_SETRGID  /**/
?H:.
?LINT:set d_setrgid
: see if setrgid exists
set setrgid d_setrgid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setrgid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_crypt.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_crypt.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:31:47  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_crypt cryptlib: Loc test xlibpth libpth Csym Setvar _a Inlibc
?MAKE: -pick add $@ %<
?S:d_crypt:
?S: This variable conditionally defines the CRYPT symbol, which
?S: indicates to the C program that the crypt() routine is available
?S: to
 encrypt passwords and the like.
?S:.
?S:cryptlib:
?S: This variable holds -lcrypt or the path to a libcrypt.a archive if
?S: the crypt() function is not defined in the standard C library. It is
?S: up to the Makefile to use this.
?S:.
?C:HAS_CRYPT (CRYPT):
?C: This symbol, if defined, indicates that the crypt routine is available
?C: to encrypt passwords and the like.
?C:.
?H:#$d_crypt HAS_CRYPT  /**/
?H:.
?LINT:set d_crypt
?T:val
: see if crypt exists
echo " "
set crypt d_crypt
eval $inlibc
case "$d_crypt" in
$define) cryptlib=" ;;
*) if set crypt val -f d_crypt; eval $csym; $val; then
  echo 'crypt() found.' >&4
  val="$define"
  cryptlib="
 else
  cryptlib=`./loc Slibcrypt$_a "" $xlibpth`
  if $test -z "$cryptlib"; then
   cryptlib=`./loc Mlibcrypt$_a "" $xlibpth`
  else
   cryptlib=-lcrypt
  fi
  if $test -z "$cryptlib"; then
```

```
  cryptlib=`./loc Llibcrypt$_a "" $xlibpth`
 else
  cryptlib=-lcrypt
 fi
 if $test -z "$cryptlib"; then
  cryptlib=`./loc libcrypt$_a ""
$libpth`
 else
  cryptlib=-lcrypt
 fi
 if $test -z "$cryptlib"; then
  echo 'crypt() NOT found.' >&4
  val="$undef"
 else
  val="$define"
 fi
fi
set d_crypt
eval $setvar
;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_crypt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_attribut.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 2020, Raphael Manfredi, Karl Williamson
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_non_int_bitfields: \
    Myread Oldconfig cat cc ccflags Setvar compiler_warning rm_try
?MAKE: -pick add $@ %<
?S:d_non_int_bitfields:
?S: This variable conditionally defines HAS_NON_INT_BITFIELDS
?S: which indicates that the C compiler accepts struct bitfields of sizes
?S: that aren't 'int' or 'unsigned int'
?S:.
?C:HAS_NON_INT_BITFIELDS:
?C: This symbol, if defined, indicates that the C compiler accepts, without
?C: error or warning, struct bitfields
```

```
 that are declared with sizes other
?C: than plain 'int'; for example 'unsigned char' is accepted.
?C:.
?H:?%<:#$d_non_int_bitfields HAS_NON_INT_BITFIELDS /**/
?H:.
?LINT:set d_non_int_bitfields
?F:!try.out !try.c
: Look for non 'int'-sized bitfields
case "$d_non_int_bitfields" in
")
echo " " >&4
echo "Checking whether your compiler can handle struct bitfields that aren't 'int' or 'unsigned int' ..." >&4
$cat >try.c <<'EOCP'
#include <stdio.h>
struct foo {
   unsigned char byte:1;
   unsigned short halfword:1;
} bar;
EOCP
if $cc $ccflags -c try.c >try.out 2>&1 ; then
 if $compiler_warning try.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support struct bitfields that aren't 'int' or 'unsigned int'." >&4
  val="$undef"
 else
  echo "Your C compiler supports struct bitfields besides 'int' and 'unsigned int'." >&4
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand struct bitfields that aren't 'int' or 'unsigned int' at all." >&4
 val="$undef"
fi
;;
*)
 val="$d_non_int_bitfields" ;;
esac
set d_non_int_bitfields
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_bitfield.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gnulibc.U,v 3.0.1.1 1997/02/28 15:34:33 ram Exp $
?RCS:
?RCS: Copyright (c) 1996,1998 Andy Dougherty
?RCS: Copyright (c) 1996, Sven Verdoolaege
```

```
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_gnulibc.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:34:33  ram
?RCS: patch61: created
?RCS:
?MAKE:d_gnulibc gnulibc_version: Myread Oldconfig Setvar rm_try \
 cat Compile run
?MAKE: -pick add $@ %<
?S:d_gnulibc:
?S: Defined if we're dealing with the GNU C Library.
?S:.
?S:gnulibc_version:
?S: This variable contains the version number of the GNU C library.
?S: It is
 usually something like '2.2.5'.  It is a plain '' if this
?S: is not the GNU C library, or if the version is unknown.
?S:.
?C:HAS_GNULIBC:
?C: This symbol, if defined, indicates to the C program that
?C: the GNU C library is being used.  A better check is to use
?C: the __GLIBC__ and __GLIBC_MINOR__ symbols supplied with glibc.
?C:.
?H:#$d_gnulibc HAS_GNULIBC /**/
?H:?%<:#if defined(HAS_GNULIBC) && !defined(_GNU_SOURCE)
?H:?%<:#   define _GNU_SOURCE
?H:?%<:#endif
?H:.
?F:!glibc.ver !try
?LINT: set d_gnulibc
?X: gnulibc can be executed by calling __libc_main().
?X: Ulrich Drepper doesn't think any other libc does that,
?X: but we check if it says 'GNU C Library' to be sure.
?X:
?X: Alas, as of 3/1998 glibc 2.0.7 reportedly isn't going to
?X: have __libc_main() anymore. :-(.  Fortunately, all released
?X: versions of glibc 2.x.x _do_ have CPP variables.  For 2.0.6,
?X: they are:
?X: #define __GLIBC__  2
?X: #define__GLIBC_MINOR__ 0.
?X: (The '6' isn't available :-(.
?X: glibc2.1 will also
```

```
 have
?X:  extern const char * __gnu_get_libc_release(void);
?X:  extern const char * __gnu_get_libc_version(void);
?X: functions.   --thanks to Andreas Jaeger.   --AD  6/1998.
?X: Although the exact format isn't documented, __gnu_get_libc_version()
?X: returns a simple string '2.1.3' in glibc 2.1.3.
?X:
: Check if we are using the GNU C library
echo " "
echo "Checking for GNU C Library..." >&4
cat >try.c <<'EOCP'
/* Find out version of GNU C library.  __GLIBC__ and __GLIBC_MINOR__
  alone are insufficient to distinguish different versions, such as
  2.0.6 and 2.0.7.  The function gnu_get_libc_version() appeared in
  libc version 2.1.0.      A. Dougherty,  June 3, 2002.
*/
#include <stdio.h>
int main(void)
{
#ifdef __GLIBC__
#   ifdef __GLIBC_MINOR__
#       if __GLIBC__ >= 2 && __GLIBC_MINOR__ >= 1 && !defined(__cplusplus)
#           include <gnu/libc-version.h>
     printf("%s\n",  gnu_get_libc_version());
#       else
     printf("%d.%d\n",  __GLIBC__, __GLIBC_MINOR__);
#
   endif
#   else
 printf("%d\n",  __GLIBC__);
#   endif
   return 0;
#else
   return 1;
#endif
}
EOCP
set try
if eval $compile_ok && $run ./try > glibc.ver; then
 val="$define"
 gnulibc_version=`$cat glibc.ver`
 echo "You are using the GNU C Library version $gnulibc_version"
else
 val="$undef"
 gnulibc_version=''
 echo "You are not using the GNU C Library"
fi
$rm_try glibc.ver
```

```
set d_gnulibc
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_gnulibc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtoq: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtoq:
?S: This variable conditionally defines the HAS_STRTOQ symbol, which
?S: indicates to the C program that the strtoq() routine is available.
?S:.
?C:HAS_STRTOQ:
?C: This symbol, if defined, indicates that the strtoq routine is
?C: available to convert strings to long longs (quads).
?C:.
?H:#$d_strtoq HAS_STRTOQ  /**/
?H:.
?LINT:set d_strtoq
: see if strtoq exists
set strtoq d_strtoq
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strtoq.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sbrk.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sbrk.U,v $
```

```
?RCS: Revision 3.0.1.1  1994/01/24  14:06:31  ram
?RCS: patch16: created
?RCS:
?MAKE:d_sbrk: Inlibc
?MAKE: -pick add $@ %<
?S:d_sbrk:
?S: This variable conditionally defines HAS_SBRK if sbrk() is
?S: available to add more core to the process.
?S:.
?C:HAS_SBRK:
?C: This symbol, if defined, indicates that the sbrk system call is
?C: available to add/relase core. Always true on Unix.
?C:.
?H:#$d_sbrk HAS_SBRK /**/
?H:.
?LINT:set d_sbrk
: see
 if sbrk exists
set sbrk d_sbrk
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sbrk.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:run to from targetarch targetdir targetmkdir targethost targetport \
 usecrosscompile hostperl hostgenerate hostosname targetenv: \
    src test rm echo sed mkdir cp chmod make touch
?MAKE: -pick add $@ %<
?Y:TOP
?S:usecrosscompile:
?S: This variable conditionally defines the USE_CROSS_COMPILE symbol,
?S: and indicates that Perl has been cross-compiled.
?S:.
?S:run:
?S: This variable contains the command used by Configure
?S: to copy and execute a cross-compiled executable in the
?S: target host.  Useful and available only during Perl build.
?S: Empty string '' if not cross-compiling.
?S:.
```

```
?S:from:
?S: This variable contains the command used by Configure
?S: to copy files from the target host.  Useful
 and available
?S: only during Perl build.
?S: The string ':' if not cross-compiling.
?S:.
?S:to:
?S: This variable contains the command used by Configure
?S: to copy to from the target host.  Useful and available
?S: only during Perl build.
?S: The string ':' if not cross-compiling.
?S:.
?S:targetarch:
?S: If cross-compiling, this variable contains the target architecture.
?S: If not, this will be empty.
?S:.
?S:targetdir:
?S: This variable contains a path that will be created on the target
?S: host using targetmkdir, and then used to copy the cross-compiled
?S: executables to. Defaults to '/tmp' if not set.
?S:.
?S:targetmkdir:
?S: This variable contains the command used by Configure to create a
?S: new directory on the target host.
?S:.
?S:targethost:
?S: This variable contains the name of a separate host machine that
?S: can be used to run compiled test programs and perl tests on.
?S: Set to empty string if not in use.
?S:.
?S:targetport:
?S: This variable contains the number
 of a network port to be used to
?S: connect to the host in targethost, if unset defaults to 22 for ssh.
?S:.
?S:hostperl:
?S: This variable contains the path to a miniperl binary that can be
?S: run on the host OS when cross-compiling.  Useful and available only
?S: during Perl build.
?S: Empty string '' if not cross-compiling.
?S:.
?S:hostgenerate:
?S: This variable contains the path to a generate_uudmap binary that
?S: can be run on the host OS when cross-compiling.  Useful and
?S: available only during Perl build.
?S: Empty string '' if not cross-compiling.
?S:.
```

```
?S:hostosname:
?S: This variable contains the original value of '$^O' for hostperl
?S: when cross-compiling.  This is useful to pick the proper tools
?S: when running build code in the host.
?S: Empty string '' if not cross-compiling.
?S:.
?S:targetenv:
?S: If cross-compiling, this variable can be used to modify the
?S: environment on the target system.
?S: However, how and where it's used, and even if it's used at all, is
?S: entirely
 dependent on both the transport mechanism (targetrun) and
?S: what the target system is.  Unless the relevant documentation says
?S: otherwise, it is genereally not useful.
?S:.
?C:USE_CROSS_COMPILE:
?C: This symbol, if defined, indicates that Perl is being cross-compiled.
?C:.
?C:PERL_TARGETARCH:
?C: This symbol, if defined, indicates the target architecture
?C: Perl has been cross-compiled to.  Undefined if not a cross-compile.
?C:.
?H:?%<:#ifndef USE_CROSS_COMPILE
?H:?%<:#$usecrosscompile USE_CROSS_COMPILE /**/
?H:?%<:#define PERL_TARGETARCH "$targetarch" /**/
?H:?%<:#endif
?H:.
?D:targetenv=''
?D:targethost=''
?D:targetmkdir=''
?T:croak pwd exe f q cwd file xxx env
?LINT:extern usecrosscompile
?LINT:extern cc
?LINT:extern usrinc
?LINT:change ar
?LINT:change nm
?LINT:change ranlib
?LINT:change src
?LINT:extern targetenv
?LINT:extern targetport
?LINT:extern targetdir
?LINT:extern targetuser
?LINT:change targetuser
?LINT:extern targetrun
?LINT:extern targetfrom
?LINT:extern
 targetto
?LINT:change targetrun
```

```
?LINT:change targetfrom
?LINT:change targetto
?LINT:extern incpth
?LINT:extern libpth
?LINT:extern locincpth
?LINT:extern loclibpth
?LINT:change locincpth
?LINT:change loclibpth
?LINT:extern hostperl
?LINT:extern hostgenerate
?LINT:extern before_host
?LINT:change before_host
?LINT:extern hostosname
?LINT:extern multiarch
: Check for Cross-Compilation
?X: targethost and targetenv mainly set to allow ?S: documentation
?X:otherwise it could have been declared extern
if $test "X$targethost" = "X"; then
   targethost=""
fi
if $test "X$targetenv" = "X"; then
   targetenv=""
fi
case "$usecrosscompile" in
$define|true|[yY]*)
 $echo "Cross-compiling..."
 croak=''
 case "$cc" in
 *-gcc*|*-g++*) # A cross-compiling gcc, probably.
     # arm-linux-androideabi-gcc  -> arm-linux-androideabi
     # x86_64-w64-mingw32-gcc.exe -> x86_64-w64-mingw32
     targetarch=`$echo $cc|$sed 's/-g[c\+][c\+].*$//'`
     ar=`$echo $cc|$sed 's/-g[c\+][c\+]/-ar/'`
     # leave out ld,
 choosing it is more complex
     nm=`$echo $cc|$sed 's/-g[c\+][c\+]/-nm/'`
     ranlib=`$echo $cc|$sed 's/-g[c\+][c\+]/-ranlib/'`
     # We are in a weird spot. Just before us, some values
     # were 'saved', to be restored after the hints are
     # run.  This means that the changes we made to ar,
     # nm and ranlib will get reverted.
     # To avoid that, we hijack the saving mechanism and
     # have it save our new values.
     for file in ar nm ranlib; do
  eval xxx=\$$file
  eval $file=$xxx$_exe
  eval _$file=$xxx
     done
```

```
;;
esac
case "$targetarch" in
") echo "Targetarch not defined." >&4; croak=y ;;
*)  echo "Using targetarch $targetarch." >&4 ;;
esac
case "$targethost" in
") echo "Targethost not defined." >&4; croak=n ;;
*)  echo "Using targethost $targethost." >&4
esac
locincpth=' '
loclibpth=' '
case "$croak" in
y) echo "Cannot continue, aborting." >&4; exit 1 ;;
esac
  : compile a host miniperl and generate_uudmap, unless we got passed them
  if
$test "X$hostperl" = X; then
    echo "Building host miniperl and generate_uudmap binaries" >&4
    before_host=`pwd`
    cd ..
    cd $src
    src=`pwd`
    rm -rf $src/host
    mkdir $src/host
    cd $src/host
    $src/Configure -des -Dusedevel -Dmksymlinks
    $make miniperl
    case "$hostgenerate" in
    ") $make generate_uudmap
        hostgenerate=$src/host/generate_uudmap
        ;;
     "$undef") hostgenerate="
        ;;
    esac
    hostperl=$src/host/miniperl
    cd $before_host
  fi
  hostosname=`$hostperl -le 'print $^O'`
  ;;
*)
  usecrosscompile="$undef"
  ;;
esac

: Define -Dtargethost=somecomputer to run compiled tests on another machine
case "$targethost" in
  ") echo "Checking for cross-compile" >&4
```

```
  case "$usecrosscompile$multiarch" in
     *$define*) echo "Skipping the try tests in the rest of Configure as no targethost was defined when cross-
compiling" >&4
       if [ -f Makefile ]; then
         echo
" "
         echo "Now you must ensure config.sh, config.h and the generated headers exist and run a $make."
       else
         echo "Configure done."
       fi
     exit 0
     ;;
   *) echo "No targethost for running compiler tests against defined, running locally" >&4
      run=''
      to=:
      from=:
      ;;
  esac
  ;;
  *) echo "Using targethost $targethost." >&4
case "$src" in
/*) run=$src/Cross/run
    targetmkdir=$src/Cross/mkdir
    to=$src/Cross/to
    from=$src/Cross/from
    ;;
*)  pwd=`$test -f ../Configure & cd ..; pwd`
    run=$pwd/Cross/run
    targetmkdir=$pwd/Cross/mkdir
    to=$pwd/Cross/to
    from=$pwd/Cross/from
    ;;
esac
case "$targetrun" in
'') targetrun=ssh ;;
esac
case "$targetto" in
'') targetto=scp ;;
esac
case "$targetfrom" in
'') targetfrom=scp ;;
esac
run=$run-$targetrun
to=$to-$targetto
from=$from-$targetfrom
case "$targetdir" in
'')  targetdir=/tmp
     echo "Guessing targetdir $targetdir."
```

```
 >&4
     ;;
 esac
 case "$targetuser" in
 ")  targetuser=root
     echo "Guessing targetuser $targetuser." >&4
     ;;
 esac
 case "$targetport" in
 ")  targetport=22
     echo "Guessing targetport $targetport." >&4
     ;;
 esac
 case "$targetfrom" in
 scp) q=-q ;;
 *) q=" ;;
 esac
 case "$targetrun" in
 ssh|rsh)
    cat >$run <<EOF
#!/bin/sh
env="
case "\$1" in
-cwd)
 shift
 cwd=\$1
 shift
 ;;
esac
case "\$1" in
-env)
 shift
 env=\$1
 shift
 ;;
esac
case "\$cwd" in
") cwd=$targetdir ;;
esac
exe=\$1
shift
$to \$exe
$targetrun -p $targetport -l $targetuser $targethost "cd \$cwd && \$env \$exe \$@"
EOF
     ;;
 adb)
    $touch $run
     ;;
```

```
 *)  echo "Unknown targetrun '$targetrun'" >&4
     exit 1
     ;;
 esac
 case "$targetmkdir" in
 */Cross/mkdir)
     cat >$targetmkdir <<EOF
#!/bin/sh
$targetrun -p $targetport -l $targetuser $targethost "mkdir -p \$@"
EOF
     $chmod a+rx $targetmkdir
     ;;
 *)  echo "Unknown targetmkdir '$targetmkdir'" >&4
     exit 1
     ;;
 esac
 case
 "$targetto" in
 scp|rcp)
     cat >$to <<EOF
#!/bin/sh
for f in \$@
do
 case "\$f" in
 /*)
   $targetmkdir \`dirname \$f\`
   $targetto -P $targetport -r $q \$f $targetuser@$targethost:\$f           2>/dev/null  || exit 1
   ;;
 *)
   $targetmkdir $targetdir/\`dirname \$f\`
   $targetto -P $targetport -r $q \$f $targetuser@$targethost:$targetdir/\$f 2>/dev/null || exit 1
   ;;
 esac
done
exit 0
EOF
     ;;
 cp) cat >$to <<EOF
#!/bin/sh
for f in \$@
do
 case "\$f" in
 /*)
   $mkdir -p $targetdir/\`dirname \$f\`
   $cp \$f $targetdir/\$f || exit 1
   ;;
 *)
   $targetmkdir $targetdir/\`dirname \$f\`
```

```
   $cp \$f $targetdir/\$f || exit 1
   ;;
 esac
done
exit 0
EOF
     ;;
 *)  echo "Unknown targetto '$targetto'" >&4
     exit 1
     ;;
 esac
 case "$targetfrom" in
 scp|rcp)
   cat >$from <<EOF
#!/bin/sh
for f in \$@
do
 $rm -f \$f
 $targetfrom -P $targetport $q $targetuser@$targethost:$targetdir/\$f . || exit 1
done
exit 0
EOF
     ;;
 cp) cat >$from <<EOF
#!/bin/sh
for
 f in \$@
do
 $rm -f \$f
 cp $targetdir/\$f . || exit 1
done
exit 0
EOF
     ;;
 *)  echo "Unknown targetfrom '$targetfrom'" >&4
     exit 1
     ;;
 esac
 if $test ! -f $run; then
     echo "Target 'run' script '$run' not found." >&4
 else
     $chmod a+rx $run
 fi
 if $test ! -f $to; then
     echo "Target 'to' script '$to' not found." >&4
 else
     $chmod a+rx $to
 fi
```

```
 if $test ! -f $from; then
     echo "Target 'from' script '$from' not found." >&4
 else
     $chmod a+rx $from
 fi
 if $test ! -f $run -o ! -f $to -o ! -f $from; then
     exit 1
 fi
 cat >&4 <<EOF
Using '$run' for remote execution,
and '$from' and '$to'
for remote file transfer.
EOF
 ;;
*) run="
 to=:
 from=:
 usecrosscompile="$undef"
 targetarch="
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/Cross.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_tgamma: Inlibc
?MAKE: -pick add $@ %<
?S:d_tgamma:
?S: This variable conditionally defines the HAS_TGAMMA symbol, which
?S: indicates to the C program that the tgamma() routine is available
?S: for the gamma function.  See also d_lgamma.
?S:.
?C:HAS_TGAMMA:
?C: This symbol, if defined, indicates that the tgamma routine is
?C: available to do the gamma function. See also HAS_LGAMMA.
?C:.
?H:#$d_tgamma HAS_TGAMMA  /**/
?H:.
?LINT:set d_tgamma
: see if tgamma exists
set tgamma d_tgamma
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_tgamma.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_mprotect: Inlibc
?MAKE: -pick add $@ %<
?S:d_mprotect:
?S: This variable conditionally defines HAS_MPROTECT if mprotect() is
?S: available to modify the access protection of a memory mapped file.
?S:.
?C:HAS_MPROTECT:
?C: This symbol, if defined, indicates that the mprotect system call is
?C: available to modify the access protection of a memory mapped file.
?C:.
?H:#$d_mprotect HAS_MPROTECT  /**/
?H:.
?LINT:set d_mprotect
: see if mprotect exists
set mprotect d_mprotect
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_mprotect.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethent.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_gethent.U,v $
```

```
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_gethent: Inlibc
?MAKE: -pick add $@ %<
?S:d_gethent:
?S: This variable conditionally defines HAS_GETHOSTENT if gethostent() is
?S: available to look up host names in some data base or another.
?S:.
?C:HAS_GETHOSTENT:
?C: This symbol, if defined, indicates that the gethostent() routine is
?C: available to look up host names in some
 data base or another.
?C:.
?H:#$d_gethent HAS_GETHOSTENT  /**/
?H:.
?LINT:set d_gethent
: see if gethostent exists
set gethostent d_gethent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_gethent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:siteman1dir siteman1direxp installsiteman1dir: Getfile \
 Setprefixvar prefix siteprefix man1dir sed
?MAKE: -pick add $@ %<
?Y:TOP
?D:siteman1dir=''
?S:siteman1dir:
?S: This variable contains the name of the directory in which site-specific
?S: manual source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S: The standard distribution will put nothing in this directory.
?S: After perl
```

```
 has been installed, users may install their own local
?S: man1 pages in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:siteman1direxp="
?S:siteman1direxp:
?S: This variable is the same as the siteman1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsiteman1dir="
?S:installsiteman1dir:
?S: This variable is really the same as siteman1direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man1direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installsiteman1dir
?LINT:set siteman1dir
?LINT:set siteman1direxp
: determine where add-on manual pages go
case "$siteman1dir" in
") dflt=`echo $man1dir | $sed "s#^$prefix#$siteprefix#"` ;;
*) dflt=$siteman1dir ;;
esac
case "$dflt" in
"|' ') dflt=none ;;
esac
fn=dn+~
rp='Pathname
 where the site-specific manual pages should be installed?'
. ./getfile
prefixvar=siteman1dir
. ./setprefixvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/siteman1dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Loc_sed.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?X: This is used in perl.c.
?MAKE:full_sed: sed
?MAKE: -pick add $@ %<
?S:full_sed:
?S: This variable contains the full pathname to 'sed', whether or
?S: not the user has specified 'portability'.  This is only used
?S: in the compiled C program, and we assume that all systems which
?S: can share this executable will have the same full pathname to
?S: 'sed.'
?S:.
?X: Yes, I know about the C symbol PORTABLE, but I think sed
?X: is
 unlikely to move, and I'm too lazy to add all the
?X: #ifdef PORTABLE sections to the perl source.
?X:
?C:LOC_SED:
?C: This symbol holds the complete pathname to the sed program.
?C:.
?H:#define LOC_SED  "$full_sed" /**/
?H:.
: Store the full pathname to the sed program for use in the C program
full_sed=$sed
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Loc_sed.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_atanh: Inlibc
?MAKE: -pick add $@ %<
?S:d_atanh:
?S: This variable conditionally defines the HAS_ATANH symbol, which
?S: indicates to the C program that the atanh() routine is available.
?S:.
?C:HAS_ATANH:
?C: This symbol, if defined, indicates that the atanh routine is
?C: available to do the inverse hyperbolic tangent function.
?C:.
?H:#$d_atanh HAS_ATANH  /**/
?H:.
?LINT:set d_atanh
```

```
: see if atanh exists
set atanh d_atanh
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_atanh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: instubperl.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:installusrbinperl: installbin cat bin Myread Setvar test Devel
?MAKE: -pick add $@ %<
?LINT:set installusrbinperl
?Y:TOP
?S:installusrbinperl:
?S: This variable tells whether Perl should be installed also as
?S: /usr/bin/perl in addition to
?S: $installbin/perl
?S:.
?C:INSTALL_USR_BIN_PERL:
?C: This symbol, if defined, indicates that Perl is to be installed
?C: also as /usr/bin/perl.
?C:.
?H:#$installusrbinperl INSTALL_USR_BIN_PERL /**/
?H:.
: determine
 whether to install perl also as /usr/bin/perl

echo " "
if $test -d /usr/bin -a "X$installbin" != X/usr/bin; then
 $cat <<EOM
Many scripts expect perl to be installed as /usr/bin/perl.

If you want to, I can install the perl you are about to compile
as /usr/bin/perl (in addition to $bin/perl).
EOM
 if test -f /usr/bin/perl; then
    $cat <<EOM
```

```
However, please note that because you already have a /usr/bin/perl,
overwriting that with a new Perl would very probably cause problems.
Therefore I'm assuming you don't want to do that (unless you insist).

EOM
    case "$installusrbinperl" in
    "$define"|[yY]*) dflt='y';;
    *)   dflt='n';;
    esac
 else
    $cat <<EOM

Since you don't have a /usr/bin/perl I'm assuming creating one is okay.

EOM
    case "$installusrbinperl" in
    "$undef"|[nN]*) dflt='n';;
    *)   dflt='y';;
    esac
 fi
 rp="Do you want to install perl as /usr/bin/perl?"
 . ./myread
 case "$ans" in
 [yY]*) val="$define";;
 *) val="$undef" ;;
 esac
else
 val="$undef"
fi
set
 installusrbinperl
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/instubperl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: patchlevel.U,v 3.0.1.1 1997/02/28 16:18:41 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
```

```
?RCS:
?RCS: $Log: patchlevel.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:18:41  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:patchlevel revision version subversion \
 perl_patchlevel version_patchlevel_string \
 api_revision api_version api_subversion api_versionstring: \
 package test rsrc echo awk osname
?MAKE: -pick
 add $@ %<
?S:revision:
?S: The value of revision comes from the patchlevel.h file.
?S: In a version number such as 5.6.1, this is the "5".
?S: In patchlevel.h, this is referred to as "PERL_REVISION".
?S:.
?S:patchlevel:
?S: The patchlevel level of this package.
?S: The value of patchlevel comes from the patchlevel.h file.
?S: In a version number such as 5.6.1, this is the "6".
?S: In patchlevel.h, this is referred to as "PERL_VERSION".
?S:.
?S:subversion:
?S: The subversion level of this package.
?S: The value of subversion comes from the patchlevel.h file.
?S: In a version number such as 5.6.1, this is the "1".
?S: In patchlevel.h, this is referred to as "PERL_SUBVERSION".
?S: This is unique to perl.
?S:.
?S:version:
?S: The full version number of this package, such as 5.6.1 (or 5_6_1).
?S: This combines revision, patchlevel, and subversion to get the
?S: full version number, including any possible subversions.
?S: This is suitable for use as a directory name, and hence is
?S: filesystem
 dependent.
?S:.
?S:api_revision:
?S: The three variables, api_revision, api_version, and
?S: api_subversion, specify the version of the oldest perl binary
?S: compatible with the present perl.  In a full version string
?S: such as '5.6.1', api_revision is the '5'.
?S: Prior to 5.5.640, the format was a floating point number,
?S: like 5.00563.
?S:
```

```
?S: perl.c:incpush() and lib/lib.pm will automatically search in
?S: $sitelib/.. for older directories back to the limit specified
?S: by these api_ variables.  This is only useful if you have a
?S: perl library directory tree structured like the default one.
?S: See INSTALL for how this works.  The versioned site_perl
?S: directory was introduced in 5.005, so that is the lowest
?S: possible value.  The version list appropriate for the current
?S: system is determined in inc_version_list.U.
?S:
?S: XXX To do:  Since compatibility can depend on compile time
?S: options (such as bincompat, longlong, etc.) it should
?S: (perhaps) be set by
 Configure, but currently it isn't.
?S: Currently, we read a hard-wired value from patchlevel.h.
?S: Perhaps what we ought to do is take the hard-wired value from
?S: patchlevel.h but then modify it if the current Configure
?S: options warrant.  patchlevel.h then would use an #ifdef guard.
?S:.
?S:api_version:
?S: The three variables, api_revision, api_version, and
?S: api_subversion, specify the version of the oldest perl binary
?S: compatible with the present perl.  In a full version string
?S: such as '5.6.1', api_version is the '6'.  See api_revision for
?S: full details.  As a special case, 5.5.0 is rendered in the
?S: old-style as 5.005.  (In the 5.005_0x maintenance series,
?S: this was the only versioned directory in $sitelib.)
?S:.
?S:api_subversion:
?S: The three variables, api_revision, api_version, and
?S: api_subversion, specify the version of the oldest perl binary
?S: compatible with the present perl.  In a full version string
?S: such as '5.6.1', api_subversion is the
 '1'.  See api_revision for
?S: full details.
?S:.
?S:api_versionstring:
?S: This variable combines api_revision, api_version, and
?S: api_subversion in a format such as 5.6.1 (or 5_6_1) suitable
?S: for use as a directory name.  This is filesystem dependent.
?S:.
?S:perl_patchlevel:
?S: This is the Perl patch level, a numeric change identifier,
?S: as defined by whichever source code maintenance system
?S: is used to maintain the patches; currently Perforce.
?S: It does not correlate with the Perl version numbers or
?S: the maintenance versus development dichotomy except
?S: by also being increasing.
?S:.
```

```
?S:version_patchlevel_string:
?S: This is a string combining version, subversion and
?S: perl_patchlevel (if perl_patchlevel is non-zero).
?S: It is typically something like
?S: 'version 7 subversion 1'  or
?S: 'version 7 subversion 1 patchlevel 11224'
?S: It is computed here to avoid duplication of code in myconfig.SH
?S: and lib/Config.pm.
?S:.
?LINT:extern LC_ALL
?LINT:extern LANGUAGE
:
 get the patchlevel
echo " "
echo "Getting the current patchlevel..." >&4
if $test -r $rsrc/patchlevel.h;then
 revision=`awk '/define[  ]+PERL_REVISION/ {print $3}' $rsrc/patchlevel.h`
 patchlevel=`awk '/define[  ]+PERL_VERSION/ {print $3}' $rsrc/patchlevel.h`
 subversion=`awk '/define[  ]+PERL_SUBVERSION/ {print $3}' $rsrc/patchlevel.h`
 api_revision=`awk '/define[  ]+PERL_API_REVISION/ {print $3}' $rsrc/patchlevel.h`
 api_version=`awk '/define[  ]+PERL_API_VERSION/ {print $3}' $rsrc/patchlevel.h`
 api_subversion=`awk '/define[  ]+PERL_API_SUBVERSION/ {print $3}' $rsrc/patchlevel.h`
 perl_patchlevel=`egrep ',"(MAINT|SMOKE)[0-9][0-9]*"' $rsrc/patchlevel.h|tail -1|sed 's/[^0-9]//g'`
else
 revision=0
 patchlevel=0
 subversion=0
 api_revision=0
 api_version=0
 api_subversion=0
 perl_patchlevel=0
 $echo "(You do not have patchlevel.h.  Eek.)"
fi
: Define a handy string here to avoid duplication in myconfig.SH and configpm.
version_patchlevel_string="version $patchlevel subversion $subversion"
case
 "$perl_patchlevel" in
0|'') ;;
*)  perl_patchlevel=`echo $perl_patchlevel | sed 's/.* //'`
   version_patchlevel_string="$version_patchlevel_string patch $perl_patchlevel"
   ;;
esac

$echo "(You have $package $version_patchlevel_string.)"

case "$osname" in
dos|vms)
 : XXX Should be a Configure test for double-dots in filenames.
```

```
 version=`echo $revision $patchlevel $subversion | \
   $awk '{ printf "%d_%d_%d", $1, $2, $3 }'`
 api_versionstring=`echo $api_revision $api_version $api_subversion | \
   $awk '{ printf "%d_%d_%d", $1, $2, $3 }'`
 ;;
*)
 version=`echo $revision $patchlevel $subversion | \
   $awk '{ printf "%d.%d.%d", $1, $2, $3 }'`
 api_versionstring=`echo $api_revision $api_version $api_subversion | \
   $awk '{ printf "%d.%d.%d", $1, $2, $3 }'`
 ;;
esac
: Special case the 5.005_xx maintenance series, which used 5.005
: without any subversion label as a subdirectory in $sitelib
if test "${api_revision}${api_version}${api_subversion}" = "550"; then
 api_versionstring='5.005'
fi
```

Found
 in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/patchlevel.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_usendir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_usendir.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:47:34  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: likewise for .o replaced by $_o
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_usendir i_ndir ndirlib: test Setvar Findhdr d_readdir _a
?MAKE: -pick add $@ %<
?S:d_usendir:
?S: This variable conditionally defines the EMULATE_NDIR symbol, which
?S: indicates
```

```
 to the C program that it should compile the ndir.c code
?S: provided with the package.
?S:.
?S:i_ndir (d_libndir):
?S: This variable conditionally defines the I_NDIR symbol, which
?S: indicates to the C program that it should include the system's
?S: version of ndir.h, rather than the one with this package.
?S:.
?S:ndirlib:
?S: The name of the library to include at linking stage to resolve ndir
?S: symbols. It is up to the makefile to use this value.
?S:.
?C:EMULATE_NDIR (USENDIR):
?C: This symbol, if defined, indicates that the program should compile
?C: the ndir.c code provided with the package.
?C:.
?C:I_NDIR (LIBNDIR):
?C: This symbol, if defined, indicates that the program should include the
?C: system's version of ndir.h, rather than the one with this package.
?C:.
?H:#$d_usendir EMULATE_NDIR  /**/
?H:#$i_ndir I_NDIR  /**/
?H:.
?T:val2
?LINT: set d_usendir i_ndir
: see if there are directory access routines out there
echo " "
if $test `./findhdr ndir.h` && \
 ( $test -r /usr/lib/libndir$_a
 || $test -r /usr/local/lib/libndir$_a ); then
 echo "Ndir library found." >&4
 if $test -r /usr/lib/libndir$_a; then
  ndirlib='-lndir'
 else
  ndirlib="/usr/local/lib/libndir$_a"
 fi
 val2="$define"
 val="$undef"
else
 ndirlib=''
 val2="$undef"
 case "$d_readdir" in
 "$define")
 echo "No ndir library found, but you have readdir() so we'll use that." >&4
  val="$undef";
  ;;
 *)
  echo "No ndir library found." >&4
```

```
  val="$define"
  ;;
 esac
fi
set d_usendir
eval $setvar
val="$val2"
set i_ndir
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_usendir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: uidtype.U,v 3.0.1.3 1994/08/29 16:33:25 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: uidtype.U,v $
?RCS: Revision 3.0.1.3  1994/08/29  16:33:25  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20  07:09:36  ram
?RCS: patch30: comment for uidtype referred to the obsoleted symbol
?RCS:
?RCS: Revision 3.0.1.1  1994/05/13  15:28:27  ram
?RCS: patch27: made conformant to its gidtype.U companion
?RCS: patch27: question now explicitly mentions getuid()
?RCS:
?RCS: Revision 3.0  1993/08/18
  12:09:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:uidtype: Myread Typedef Findhdr
?MAKE: -pick add $@ %<
?S:uidtype:
?S: This variable defines Uid_t to be something like uid_t, int,
?S: ushort, or whatever type is used to declare user ids in the kernel.
?S:.
?C:Uid_t (UIDTYPE):
?C: This symbol holds the type used to declare user ids in the kernel.
```

```
?C: It can be int, ushort, uid_t, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Uid_t $uidtype  /* UID type */
?H:.
?T:xxx
: see what type uids are declared as in the kernel
echo " "
echo "Looking for the type for user ids returned by getuid()."
set uid_t uidtype xxx stdio.h sys/types.h
eval $typedef
case "$uidtype" in
xxx)
 xxx=`./findhdr sys/user.h`
 set `grep '_ruid;' "$xxx" 2>/dev/null` unsigned short
 case $1 in
 unsigned) dflt="$1 $2" ;;
 *) dflt="$1" ;;
 esac
 ;;
*) dflt="$uidtype";;
esac
case "$uidtype" in
uid_t) echo "uid_t found." ;;
*) rp="What
 is the type for user ids returned by getuid()?"
 . ./myread
 uidtype="$ans"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/uidtype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_nanosleep: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_nanosleep:
?S: This variable conditionally defines HAS_NANOSLEEP
?S: if nanosleep() is available to sleep with 1E-9 sec accuracy.
?S:.
?C:HAS_NANOSLEEP:
?C: This symbol, if defined, indicates that the nanosleep
?C: system call is available to sleep with 1E-9 sec accuracy.
?C:.
?H:#$d_nanosleep HAS_NANOSLEEP  /**/
?H:.
?LINT:set d_nanosleep
: see if nanosleep exists
set nanosleep d_nanosleep
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_nanosleep.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: fpu.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:10  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:fpu: test cat cc Myread
?MAKE: -pick add $@ %<
?S:fpu (fpunit):
?S: Set to be the compile flag for the local floating point unit.
?S:.
?C:FPU (FPUNIT):
?C: String containing the flags for the local floating point unit.
?C:.
?H:#define FPU "$fpu" /**/
?H:.
: see what floating point compile flags should be used.
fpu=''
if $test -r /dev/fpa; then
 $cat>fpa.c << GOOP
```

```
 main(){return(1);}
GOOP
 $cc
 -ffpa -o fpa fpa.c
 fpa > fpa.out 2>&1
 if $test ! -s fpa.out; then
  dflt='y'
  $cat <<'EOM'

You seem to have a sun fpa...  I can compile the code to use the fpa but it will
mean that the code can ONLY run on a machine with a fpa...

EOM
  rp="Should I compile for fpa?"
  . ./myread
  if $test $ans = "n"; then
   fpu=''
  else
   fpu='-ffpa'
  fi
 else
  $cat <<'EOM'

You have the fpa device but I can't seem to use it.  Maybe you should talk to
your sysadmin about this.  For now, I am not going to compile it in.

EOM
 fi
fi
if $test "$fpu" = ''; then
 if $test -r /usr/etc/mc68881version; then
  dflt='y'
  $cat <<'EOM'

There also seems to be the pieces for a 68881.  If I compile this in, it will
work on almost all Sun 3's except for a few Sun-3/50s without a 68881...

EOM
  rp="Should I compile for a 68881?"
  . ./myread
  if $test $ans = "y"; then
   fpu='-f68881'
  fi
 fi
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/dist/U/fpu.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: orderlib.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  16:18:18  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: likewise for .o replaced by $_o
?RCS: patch61: now uses the ar located by Loc.U
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:33:04  ram
?RCS: patch45: allows hint files to specify their own value for 'ranlib'
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:26:48  ram
?RCS: patch36: now performs a real small compile for accurate checks (ADO)
?RCS:
?RCS: Revision 3.0.1.1
  1994/08/29  16:31:17  ram
?RCS: patch32: use cc variable instead of hardwired 'cc' in 1st compile
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:orderlib ranlib: Loc ar cat test rm +cc +ccflags +ldflags +libs _a _o
?MAKE: -pick add $@ %<
?S:orderlib:
?S: This variable is "true" if the components of libraries must be ordered
?S: (with `lorder $* | tsort`) before placing them in an archive.  Set to
?S: "false" if ranlib or ar can generate random libraries.
?S:.
?S:ranlib:
?S: This variable is set to the pathname of the ranlib program, if it is
?S: needed to generate random libraries.  Set to ":" if ar can generate
?S: random libraries or if random libraries are not supported
?S:.
?F:!foobar
: see if ar generates random libraries by itself
echo " "
echo "Checking how to generate random libraries on your machine..." >&4
```

```
?X: Some systems (like MIPS) complain when running ar... Others like Ultrix
?X: need an explicit 'ar ts'
 to add the table of contents.
?X: Still others like Linux run ar ts successfully, but still need ranlib.
?X: This set of tests seems the minimum necessary to check out Linux.
?X: We need to explicitly put the entries in out-of-order so that Sun's ld
?X: will fail.  (Otherwise it complains, but gives an exit status of 0.)
echo 'int bar1() { return bar2(); }' > bar1.c
echo 'int bar2() { return 2; }' > bar2.c
$cat > foo.c <<'EOP'
int main() { printf("%d\n", bar1()); exit(0); }
EOP
$cc $ccflags -c bar1.c >/dev/null 2>&1
$cc $ccflags -c bar2.c >/dev/null 2>&1
$cc $ccflags -c foo.c >/dev/null 2>&1
$ar rc bar$_a bar2$_o bar1$_o >/dev/null 2>&1
if $cc $ccflags $ldflags -o foobar foo$_o bar$_a $libs > /dev/null 2>&1 &&
 ./foobar >/dev/null 2>&1; then
 echo "ar appears to generate random libraries itself."
 orderlib=false
 ranlib=":"
elif $ar ts bar$_a >/dev/null 2>&1 &&
 $cc $ccflags $ldflags -o foobar foo$_o bar$_a $libs > /dev/null 2>&1 &&
 ./foobar >/dev/null 2>&1; then
  echo "a table of contents
 needs to be added with 'ar ts'."
  orderlib=false
  ranlib="$ar ts"
else
?X: Allow hints to specify their own ranlib "script". For instance, on
?X: some NeXT machines, the timestamp put by ranlib is not correct, and this
?X: may raise tedious recompiles for nothing. Therefore, NeXT may add the
?X: ranlib='sleep 5; /bin/ranlib' line in their hints to "fix" that.
?X: (reported by Andreas Koenig <k@franz.ww.tu-berlin.de>)
 case "$ranlib" in
 :) ranlib=";;
 ")
  ranlib=`./loc ranlib X /usr/bin /bin /usr/local/bin`
  $test -f $ranlib || ranlib="
  ;;
 esac
 if $test -n "$ranlib"; then
  echo "your system has '$ranlib'; we'll use that."
  orderlib=false
 else
  echo "your system doesn't seem to support random libraries"
  echo "so we'll use lorder and tsort to order the libraries."
  orderlib=true
```

```
  ranlib=":"
 fi
fi
$rm -f foo* bar*
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/orderlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_msgrcv.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msgrcv.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:40  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_msgrcv: Inlibc
?MAKE: -pick add $@ %<
?S:d_msgrcv:
?S: This variable conditionally defines the HAS_MSGRCV symbol, which
?S: indicates to the C program that the msgrcv() routine is available.
?S:.
?C:HAS_MSGRCV:
?C: This symbol, if defined, indicates that the msgrcv() routine is
?C: available to extract a message from the message queue.
?C:.
?H:#$d_msgrcv
 HAS_MSGRCV  /**/
?H:.
?LINT:set d_msgrcv
: see if msgrcv exists
set msgrcv d_msgrcv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_msgrcv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_lround: Inlibc
?MAKE: -pick add $@ %<
?S:d_lround:
?S: This variable conditionally defines the HAS_LROUND symbol, which
?S: indicates to the C program that the lround() routine is available
?S: to return the integral value nearest to x.
?S:.
?C:HAS_LROUND:
?C: This symbol, if defined, indicates that the lround routine is
?C: available to return the nearest integral value.
?C:.
?H:#$d_lround HAS_LROUND  /**/
?H:.
?LINT:set d_lround
: see if lround exists
set lround d_lround
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_lround.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: ipc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: ipc.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:53  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:ipc serve_shm serve_msg serve_inet_udp serve_inet_tcp serve_unix_udp \
 serve_unix_tcp: test Myread Oldconfig d_socket d_msg d_shm d_sem
?MAKE: -pick add $@ %<
?LINT:use d_msg d_sem
?S:ipc:
?S: This variable holds the type of IPC service we'll be using.  Values
?S: include "ip", "shm", "msg", "cms" and "os9".  We don't worry about
?S: cms or os9
```

here, because Configure doesn't run in those places--HMS.
?S:.
?S:serve_shm:
?S: This variable controls the definition of SERVE_SHM, which tells the
?S: C program to use USG shared memory for IPC.
?S:.
?S:serve_msg:
?S: This variable controls the definition of SERVE_MSG, which tells the
?S: C program to use USG message queues for IPC.
?S:.
?S:serve_inet_udp:
?S: This variable controls the definition of SERVE_INET_UDP, which tells
?S: the C program to enable InterNet-domain UDP support for IPC.
?S:.
?S:serve_inet_tcp:
?S: This variable controls the definition of SERVE_INET_TCP, which tells
?S: the C program to enable InterNet-domain TCP support for IPC.
?S:.
?S:serve_unix_udp:
?S: This variable controls the definition of SERVE_UNIX_UDP, which tells
?S: the C program to enable Unix-domain UDP support for IPC.
?S:.
?S:serve_unix_tcp:
?S: This variable controls the definition of SERVE_UNIX_TCP, which tells
?S: the C program to enable Unix-domain TCP support for IPC.
?S:.
?C:SERVE_SHM:
?C: If
defined, tells the C program to use USG shared memory for IPC.
?C:.
?C:SERVE_MSG:
?C: If defined, tells the C program to use USG message queues for IPC.
?C:.
?C:SERVE_INET_UDP:
?C: If defined, tells the C program to enable InterNet-domain UDP
?C: support for IPC.
?C:.
?C:SERVE_INET_TCP:
?C: If defined, tells the C program to enable InterNet-domain TCP
?C: support for IPC.
?C:.
?C:SERVE_UNIX_UDP:
?C: If defined, tells the C program to enable Unix-domain UDP
?C: support for IPC.
?C:.
?C:SERVE_UNIX_TCP:
?C: If defined, tells the C program to enable Unix-domain TCP
?C: support for IPC.

```
?C:.
?H:#$serve_shm SERVE_SHM /**/
?H:#$serve_msg SERVE_MSG /**/
?H:#$serve_inet_udp SERVE_INET_UDP /**/
?H:#$serve_inet_tcp SERVE_INET_TCP /**/
?H:#$serve_unix_udp SERVE_UNIX_UDP /**/
?H:#$serve_unix_tcp SERVE_UNIX_TCP /**/
?H:.
?X: FIXME -- RAM
?INIT:serve_shm=''
?INIT:serve_msg="$undef"
?INIT:serve_inet_udp=''
?INIT:serve_inet_tcp=''
?INIT:serve_unix_udp=''
?INIT:serve_unix_tcp=''
: get IPC mechanism
echo
 " "
ipc=''
while $test -z "$ipc"
do
 if $test "$ipc" != "shm" -a "$d_socket" = "$define"; then
  ipc=''
  if $test "$serve_inet_udp" = "$undef"; then
   dflt=n
  else
   dflt=y
  fi
  rp='Provide InterNet-domain UDP service?'
  . ./myread
  dflt=''
  case "$ans" in
  n*) serve_inet_udp="$undef";;
  *)
   serve_inet_udp="$define"
   ipc='ip'
   ;;
  esac

  if $test "$serve_inet_tcp" = "$define"; then
   dflt=y
  else
   dflt=n
  fi
  rp='Provide InterNet-domain TCP service?'
  . ./myread
  dflt=''
  case "$ans" in
```

```
 n*) serve_inet_tcp="$undef";;
 *)
  serve_inet_tcp="$define"
  ipc='ip'
  ;;
 esac

 if $test "$serve_unix_udp" = "$define"; then
  dflt=y
 else
  dflt=n
 fi
 rp='Provide Unix-domain UDP service?'
 . ./myread
 dflt=''
 case "$ans" in
 n*) serve_unix_udp="$undef";;
 *)
  serve_unix_udp="$define"
  ipc='ip'
  ;;
 esac

 if $test "$serve_unix_tcp" = "$define"; then
  dflt=y
 else
  dflt=n
 fi
 rp='Provide Unix-domain TCP service?'
 . ./myread
 dflt=''
 case
"$ans" in
 n*) serve_unix_tcp="$undef";;
 *)
  serve_unix_tcp="$define"
  ipc='ip'
  ;;
 esac
else
 serve_inet_udp="$undef"
 serve_inet_tcp="$undef"
 serve_unix_udp="$undef"
 serve_unix_tcp="$undef"
fi
if $test "$ipc" != "ip" -a "$d_shm" = "$define"; then
 echo "Providing USG shared memory IPC support." >&4
 serve_shm="$define"
```

```
  ipc='shm'
 else
  serve_shm="$undef"
 fi
 if $test -z "$ipc"; then
  echo "You must select an IPC mechanism." >&4
 fi
done
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/ipc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: mallocsrc.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:10:26  ram
?RCS: patch61: added support for Free_t, the type of free()
?RCS: patch61: replaced .o with $_o all over the place
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:10:46  ram
?RCS: patch23: added support for MYMALLOC, mainly  for perl5 (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:12  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:mallocsrc mallocobj usemymalloc malloctype d_mymalloc \
 freetype: Myread \
 Oldconfig
 package Guess Setvar rm cat +cc +ccflags Findhdr \
 i_malloc i_stdlib sed libs _o ptrsize
?MAKE: -pick add $@ %<
?X: Put near top so that other tests don't erroneously include
?X: -lmalloc.  --AD  22 June 1998
?Y:TOP
?S:usemymalloc:
?S: This variable contains y if the malloc that comes with this package
?S: is desired over the system's version of malloc.  People often include
?S: special versions of malloc for effiency, but such versions are often
```

```
?S: less portable.  See also mallocsrc and mallocobj.
?S: If this is 'y', then -lmalloc is removed from $libs.
?S:.
?S:mallocsrc:
?S: This variable contains the name of the malloc.c that comes with
?S: the package, if that malloc.c is preferred over the system malloc.
?S: Otherwise the value is null.  This variable is intended for generating
?S: Makefiles.
?S:.
?S:d_mymalloc:
?S: This variable conditionally defines MYMALLOC in case other parts
?S: of the source want to take special action if MYMALLOC is used.
?S: This may include different sorts
 of profiling or error detection.
?S:.
?S:mallocobj:
?S: This variable contains the name of the malloc.o that this package
?S: generates, if that malloc.o is preferred over the system malloc.
?S: Otherwise the value is null.  This variable is intended for generating
?S: Makefiles.  See mallocsrc.
?S:.
?S:freetype:
?S: This variable contains the return type of free().  It is usually
?S: void, but occasionally int.
?S:.
?S:malloctype:
?S: This variable contains the kind of ptr returned by malloc and realloc.
?S:.
?C:Free_t:
?C: This variable contains the return type of free().  It is usually
?C: void, but occasionally int.
?C:.
?C:Malloc_t (MALLOCPTRTYPE):
?C: This symbol is the type of pointer returned by malloc and realloc.
?C:.
?H:#define Malloc_t $malloctype   /**/
?H:#define Free_t $freetype   /**/
?H:.
?C:MYMALLOC:
?C: This symbol, if defined, indicates that we're using our own malloc.
?C:.
?H:#$d_mymalloc MYMALLOC   /**/
?H:.
?LINT:change libs
?X: Cannot test for mallocsrc; it
 is the unit's name and there is a bug in
?X: the interpreter which defines all the names, even though they are not used.
@if mallocobj
```

```
: determine which malloc to compile in
echo " "
case "$usemymalloc" in
[yY]*|true|$define) dflt='y' ;;
[nN]*|false|$undef) dflt='n' ;;
*)
 case "$ptrsize" in
 4) dflt='y' ;;
 *) dflt='n' ;;
 esac
 ;;
esac
rp="Do you wish to attempt to use the malloc that comes with $package?"
. ./myread
usemymalloc="$ans"
case "$ans" in
y*|true)
 usemymalloc='y'
 mallocsrc='malloc.c'
 mallocobj="malloc$_o"
 d_mymalloc="$define"
?X: Maybe libs.U should be dependent on mallocsrc.U, but then
?X: most packages that use dist probably don't supply their own
?X: malloc, so this is probably an o.k. comprpomise
 case "$libs" in
 *-lmalloc*)
  : Remove malloc from list of libraries to use
  echo "Removing unneeded -lmalloc from library list" >&4
  set `echo X $libs | $sed -e 's/-lmalloc / /' -e 's/-lmalloc$//'`
  shift
  libs="$*"
  echo "libs = $libs" >&4
  ;;
 esac
 ;;
*)
 usemymalloc='n'
 mallocsrc=''
 mallocobj=''
 d_mymalloc="$undef"
 ;;
esac

@end
@if
 MALLOCPTRTYPE || Malloc_t || Free_t
: compute the return types of malloc and free
echo " "
```

```
$cat >malloc.c <<END
#$i_malloc I_MALLOC
#$i_stdlib I_STDLIB
#include <stdio.h>
#include <sys/types.h>
#ifdef I_MALLOC
#include <malloc.h>
#endif
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#ifdef TRY_MALLOC
void *malloc();
#endif
#ifdef TRY_FREE
void free();
#endif
END
@if MALLOCPTRTYPE || Malloc_t
case "$malloctype" in
")
 if $cc $ccflags -c -DTRY_MALLOC malloc.c >/dev/null 2>&1; then
  malloctype='void *'
 else
  malloctype='char *'
 fi
 ;;
esac
echo "Your system wants malloc to return '$malloctype', it would seem." >&4
@end

@if Free_t
case "$freetype" in
")
 if $cc $ccflags -c -DTRY_FREE malloc.c >/dev/null 2>&1; then
  freetype='void'
 else
  freetype='int'
 fi
 ;;
esac
echo "Your system uses $freetype free(), it would seem." >&4
@end
$rm -f malloc.[co]
@end
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/dist/U/mallocsrc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysuio.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysuio: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysuio:
?S: This variable conditionally defines the I_SYSUIO symbol, and indicates
?S: whether a C program should include <sys/uio.h>.
?S:.
?C:I_SYSUIO:
?C: This symbol, if defined, indicates that <sys/uio.h> exists and
?C: should be included.
?C:.
?H:#$i_sysuio I_SYSUIO  /**/
?H:.
?LINT:set i_sysuio
: see if this is a sys/uio.h system
set sys/uio.h i_sysuio
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_sysuio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libc.U,v $
?RCS: Revision 3.0.1.10  1997/02/28  15:56:48  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: added support for HPUX-10 nm output
?RCS:
?RCS: Revision 3.0.1.9  1995/07/25  14:11:56  ram
```

```
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.8  1995/05/12  12:20:47  ram
?RCS: patch54: made sure only most recent version of shared lib is picked
?RCS: patch54: final "nm -p" check now uses xscan and xrun like everybody
?RCS: patch54: can now grok
 linux nm output with lead __IO (ADO)
?RCS: patch54: added support for linux ELF output, using 'W' for alias (ADO)
?RCS:
?RCS: Revision 3.0.1.7  1994/10/29  16:23:40  ram
?RCS: patch36: now looks for shared libraries before anything else (ADO)
?RCS: patch36: added new nm output format (ADO)
?RCS:
?RCS: Revision 3.0.1.6  1994/08/29  16:28:10  ram
?RCS: patch32: added I-type symbols for nm output parsing on Linux
?RCS:
?RCS: Revision 3.0.1.5  1994/06/20  07:03:24  ram
?RCS: patch30: checks are now presented by succession of if/elif
?RCS: patch30: uniformized checks for shared objects with new so symbol
?RCS:
?RCS: Revision 3.0.1.4  1994/05/06  15:06:33  ram
?RCS: patch23: added shared library knowledge (ADO and WED)
?RCS:
?RCS: Revision 3.0.1.3  1994/01/24  14:12:17  ram
?RCS: patch16: can now export nm_extract as an internal-use only variable
?RCS:
?RCS: Revision 3.0.1.2  1993/09/13  16:09:03  ram
?RCS: patch10: added special handling for Apollo systems (WAD)
?RCS:
?RCS: Revision 3.0.1.1
  1993/08/27  14:40:03  ram
?RCS: patch7: added entry for /usr/shlib/libc.so (OSF/1 machines)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libc libnames +nm_extract: echo n c rm test grep Getfile Myread \
 Oldconfig Loc sed libs incpath libpth ar runnm nm nm_opt nm_so_opt \
 contains xlibpth so osname trnl tr sort uniq _o _a
?MAKE: -pick add $@ %<
?S:libc:
?S: This variable contains the location of the C library.
?S:.
?S:libnames:
?S: The constructed list of library names.  Normally empty, but hint files
?S: may set this for later perusal by Configure.
?S:.
?S:nm_extract:
```

```
?S: This variable holds the name of the extraction command used to process
?S: the output of nm and yield the list of defined symbols. It is used
?S: internally by Configure.
?S:.
?T:thislib try libnames xxx xscan xrun thisname com tans file
?F:!libnames !libc.tmp !tmp.imp
?LINT:change nm_opt runnm
?INIT:libnames=''
: Figure out where the libc is located
case
 "$runnm" in
true)
?X: indentation is wrong on purpose--RAM
: get list of predefined functions in a handy place
echo " "
case "$libc" in
'') libc=unknown
 case "$libs" in
 *-lc_s*) libc=`./loc libc_s$_a $libc $libpth`
 esac
 ;;
esac
case "$libs" in
'') ;;
*)  for thislib in $libs; do
 case "$thislib" in
 -lc|-lc_s)
  : Handle C library specially below.
  ;;
 -l*)
  thislib=`echo $thislib | $sed -e 's/^-l//'`
  if try=`./loc lib$thislib.$so.'*' X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib.$so X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib$_a X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc $thislib$_a X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc $thislib X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc Slib$thislib$_a X $xlibpth`; $test -f "$try"; then
   :
  else
   try=''
  fi
```

```
  libnames="$libnames $try"
  ;;
 *) libnames="$libnames $thislib"
 ;;
 esac
 done
 ;;
esac
?X:
?X: Some systems (e.g. DG/UX) use "environmental" links, which make the test
?X: -f fail. Ditto for symbolic links. So in order to reliably check the
?X: existence of a file, we use test -r. It will still fail with DG/UX links
?X: though, but at least it will detect symbolic links. At some strategic
?X: points, we make use of (test -h), using a sub-shell in case builtin test
?X: does not implement the -h check for symbolic links. This makes it
?X: possible to preset libc in a hint file for instance and have it show up
?X: as-is in the question.
?X:
xxx=normal
case "$libc" in
unknown)
?X:
?X: The sed below transforms .so.9 .so.12 into something like .so.0009 .so.0012,
?X: then sorts on it to allow keeping .so.12 instead of .so.9 as the latest
?X: up-to-date library. The initial filename (before sed munging, saved in hold
?X: space via 'h') is appended via 'G' before sorting, then the leading munged
?X: part is removed after sorting. Nice efficient work
 from Tye McQueen.
?X: The initial blurfl is here to prevent the trailing pipe from producing an
?X: empty string, causing Configure to output all its set variables!
?X:
 set /lib/libc.$so
 for xxx in $libpth; do
  $test -r $1 || set $xxx/libc.$so
  : The messy sed command sorts on library version numbers.
  $test -r $1 || \
   set `echo blurfl; echo $xxx/libc.$so.[0-9]* | \
   tr ' ' $trnl | egrep -v '\.[A-Za-z]*$' | $sed -e '
    h
    s/[0-9][0-9]*/0000&/g
    s/0*\([0-9][0-9][0-9][0-9][0-9]\)/\1/g
    G
    s/\n/ /' | \
    $sort | $sed -e 's/^.* //'`
  eval set \$$#
 done
 $test -r $1 || set /usr/ccs/lib/libc.$so
 $test -r $1 || set /lib/libsys_s$_a
```

```
 ;;
*)
?X: ensure the test below for the (shared) C library will fail
 set blurfl
 ;;
esac
if $test -r "$1"; then
 echo "Your (shared) C library seems to be in $1."
 libc="$1"
elif $test -r /lib/libc && $test -r /lib/clib; then
?X:
?X: Apollo has its C library in /lib/clib AND /lib/libc
?X: not to mention its math library in /lib/syslib...
?X:
 echo
 "Your C library seems to be in both /lib/clib and /lib/libc."
 xxx=apollo
 libc='/lib/clib /lib/libc'
 if $test -r /lib/syslib; then
  echo "(Your math library is in /lib/syslib.)"
?X: Put syslib in libc -- not quite right, but won't hurt
  libc="$libc /lib/syslib"
 fi
elif $test -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
 echo "Your C library seems to be in $libc, as you said before."
?X: For mips, and...
elif $test -r $incpath/usr/lib/libc$_a; then
 libc=$incpath/usr/lib/libc$_a;
 echo "Your C library seems to be in $libc.  That's fine."
elif $test -r /lib/libc$_a; then
 libc=/lib/libc$_a;
 echo "Your C library seems to be in $libc.  You're normal."
else
 if tans=`./loc libc$_a blurfl/dyick $libpth`; $test -r "$tans"; then
  :
 elif tans=`./loc libc blurfl/dyick $libpth`; $test -r "$tans"; then
  libnames="$libnames "`./loc clib blurfl/dyick $libpth`
 elif tans=`./loc clib blurfl/dyick $libpth`; $test -r "$tans"; then
  :
 elif tans=`./loc Slibc$_a blurfl/dyick
 $xlibpth`; $test -r "$tans"; then
  :
 elif tans=`./loc Mlibc$_a blurfl/dyick $xlibpth`; $test -r "$tans"; then
  :
 else
  tans=`./loc Llibc$_a blurfl/dyick $xlibpth`
 fi
 if $test -r "$tans"; then
```

```
  echo "Your C library seems to be in $tans, of all places."
  libc=$tans
 else
  libc='blurfl'
 fi
fi
if $test $xxx = apollo -o -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
 dflt="$libc"
 cat <<EOM

If the guess above is wrong (which it might be if you're using a strange
compiler, or your machine supports multiple models), you can override it here.

EOM
else
 dflt=''
 echo $libpth | $tr ' ' $trnl | $sort | $uniq > libpath
 cat >&4 <<EOM
I can't seem to find your C library.  I've looked in the following places:

EOM
 $sed 's/^/ /' libpath
 cat <<EOM

None of these seems to contain your C library. I need to get its name...

EOM
fi
fn=f
rp='Where is your C library?'
. ./getfile
libc="$ans"

echo " "
echo $libc $libnames | $tr ' ' $trnl | $sort | $uniq > libnames
set X `cat libnames`
shift
xxx=files
case
 $# in 1) xxx=file; esac
echo "Extracting names from the following $xxx for later perusal:" >&4
echo " "
$sed 's/^/ /' libnames >&4
echo " "
$echo $n "This may take a while...$c" >&4

?X:
?X: Linux may need the special Dynamic option to nm for shared libraries.
```

```
?X: In general, this is stored in the nm_so_opt variable.
?X: Unfortunately, that option may be fatal on non-shared libraries.
?X:
for file in $*; do
 case $file in
 *$so*) $nm $nm_so_opt $nm_opt $file 2>/dev/null;;
 *) $nm $nm_opt $file 2>/dev/null;;
 esac
done >libc.tmp

$echo $n ".$c"
?X:
?X: To accelerate processing, we look at the correct 'sed' command
?X: by using a small subset of libc.tmp, i.e. fprintf function.
?X: When we know which sed command to use, do the name extraction
?X:
$grep fprintf libc.tmp > libc.ptf
?X:
?X: In order to enhance readability and save some space, we define
?X: some variables that will be "eval"ed.
?X:
xscan='eval "<libc.ptf $com >libc.list"; $echo $n ".$c" >&4'
xrun='eval
 "<libc.tmp $com >libc.list"; echo "done." >&4'
?X: BSD-like output, I and W types added for Linux
?X: Some versions of Linux include a leading __IO in the symbol name.
?X: HPUX10 reportedly has trailing spaces, though I'm surprised it has
?X: BSD-like output.  (AD).
xxx='[ADTSIW]'
if com="$sed -n -e 's/__IO//' -e 's/^.* $xxx  *_[_.]*//p' -e 's/^.* $xxx  *//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: SYSV-like output
elif com="$sed -n -e 's/^__*//' -e 's/^\([a-zA-Z_0-9$]*\).*xtern.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e '/|UNDEF/d' -e '/FUNC..GL/s/^.*|__*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.* D __*//p' -e 's/^.* D //p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^_//' -e 's/^\([a-zA-Z_0-9]*\).*xtern.*text.*/\1/p'";\
 eval
```

```
 $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$grep '|' | $sed -n -e '/|COMMON/d' -e '/|DATA/d' \
    -e '/ file/d' -e 's/^\([^  ]*\).*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|//p' -e 's/^.*|FUNC |WEAK .*|//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: mips nm output (sysV)
elif com="$sed -n -e 's/^__//' -e '/|Undef/d' -e '/|Proc/s/ .*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|Proc .*|Text *| *//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e '/Def. Text/s/.* \([^ ]*\)\$/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null
 2>&1; then
  eval $xrun
?X: OS/2 nm output
elif com="$sed -n -e 's/^[-0-9a-f ]*_\(.*\)=.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/.*\.text n\ \ \ \.//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: AIX nm output
elif com="sed -n -e 's/^__.*//' -e 's/[       ]*D[    ]*[0-9]*.*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
else
 $nm -p $* 2>/dev/null >libc.tmp
 $grep fprintf libc.tmp > libc.ptf
 if com="$sed -n -e 's/^.* [ADTSIW]  *_[_.]*//p' -e 's/^.* [ADTSIW] //p'";\
```

```
 eval $xscan; $contains '^fprintf$' libc.list >/dev/null 2>&1
then
 nm_opt='-p'
 eval $xrun
else
 echo " "
 echo "$nm didn't seem to work right. Trying $ar instead..." >&4
 com=''
 if $ar t $libc > libc.tmp && \
  $contains '^fprintf$' libc.tmp >/dev/null 2>&1
 then
  for thisname in $libnames $libc; do
   $ar t $thisname >>libc.tmp
  done
  $sed
-e "s/\\$_o\$//" < libc.tmp > libc.list
  echo "Ok." >&4
 elif test "X$osname" = "Xos2" && $ar tv $libc > libc.tmp; then
?X: Repeat libc to extract forwarders to DLL entries too
  for thisname in $libnames $libc; do
   $ar tv $thisname >>libc.tmp
?X: Revision 50 of EMX has bug in ar: it will not extract forwarders
?X: to DLL entries.  Use emximp which will extract exactly them.
   emximp -o tmp.imp $thisname \
       2>/dev/null && \
       $sed -e 's/^\([_a-zA-Z0-9]*\) .*$/\1/p' \
       < tmp.imp >>libc.tmp
   $rm -f tmp.imp
  done
  $sed -e "s/\\$_o\$//" -e 's/^ \+//' < libc.tmp > libc.list
  echo "Ok." >&4
 else
  echo "$ar didn't seem to work right." >&4
  echo "Maybe this is a Cray...trying bld instead..." >&4
  if
   bld t $libc | \
    $sed -e 's/.*\///' -e "s/\\$_o:.*\$//" > libc.list &&
   $test -s libc.list
  then
   for thisname in $libnames; do
    bld t $libnames | \
    $sed -e 's/.*\///' -e "s/\\$_o:.*\$//" >>libc.list
    $ar t $thisname >>libc.tmp
   done
   echo
"Ok." >&4
  else
   echo "That didn't work either." >&4
```

```
    echo "No problem, I'll be compiling test programs then..." >&4
    runnm=false
   fi
  fi
 fi
fi
nm_extract="$com"
if $test -f /lib/syscalls.exp; then
 echo " "
 echo "Also extracting names from /lib/syscalls.exp for good ole AIX..." >&4
 $sed -n 's/^\([^  ]*\)[  ]*syscall[0-9]*[  ]*$/\1/p' \
  /lib/syscalls.exp >>libc.list
fi
?X: remember, indentation is wrong on purpose--RAM
;;
esac
$rm -f libnames libpath
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/libc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_off64_t: \
 Inlibc Setvar Compile rm_try cat lseeksize
?MAKE: -pick add $@ %<
?S:d_off64_t:
?S: This symbol will be defined if the C compiler supports off64_t.
?S:.
?C:HAS_OFF64_T:
?C: This symbol will be defined if the C compiler supports off64_t.
?C:.
?H:#$d_off64_t HAS_OFF64_T  /**/
?H:.
?LINT:set d_off64_t
: check for off64_t
echo " "
echo "Checking to see if you have off64_t..." >&4
$cat >try.c <<EOCP
#include <sys/types.h>
#include <unistd.h>
```

```
int main() { off64_t x = 7; }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have off64_t."
else
 val="$undef"
 echo "You do not have off64_t."
 case "$lseeksize" in
 8) echo "(Your off_t is 64 bits, so you could use that.)" ;;
 esac
fi
$rm_try
set
 d_off64_t
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_off64_t.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: contains.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: contains.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:contains: Nothing
?MAKE: -pick add $@ %<
?S:contains:
?S: This variable holds the command to do a grep with a proper return
?S: status.  On most sane systems it is simply "grep".  On insane systems
?S: it is a grep followed by a cat followed by a test.  This variable
?S: is primarily for the use of other Configure units.
?S:.
: Some
 greps do not return status, grrr.
echo "grimblepritz" >grimble
```

```
if grep blurfldyick grimble >/dev/null 2>&1 ; then
 contains=contains
elif grep grimblepritz grimble >/dev/null 2>&1 ; then
 contains=grep
else
 contains=contains
fi
rm -f grimble
: the following should work in any shell
case "$contains" in
contains*)
 echo " " >&4
 echo "AGH!  Grep doesn't return a status.  Attempting remedial action." >&4
 cat >contains <<'EOSS'
grep "$1" "$2" >.greptmp && cat .greptmp && test -s .greptmp
EOSS
contains=./contains
chmod +x $contains
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/contains.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extractall.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:00:43  ram
?RCS: patch61: created
?RCS:
?X:
?X: If extraction has been requested, load the configuration file, perform
?X: the extraction and exit.
?X:
?X: This unit was originally a part of Options.U. It had to be removed from
?X: it to prevent a dependency cycle: Extract -> src -> Options -> Extract
?X: The Begin.U unit now requires us before beginning to do anything
?X: interesting, to ensure proper semantics. -- RAM, 15/03/96
?X:
```

```
?MAKE:Extractall:
 Extract Options
?MAKE: -pick wipe $@ %<
: extract files and exit if asked to do so
case "$extractsh" in
true)
?X: Undo the forced silent=true when -S was supplied, by probing realsilent
?X: which was set iff -s was also given. See Options.U for details.
 case "$realsilent" in
 true) ;;
 *) exec 1>&4;;
 esac
 case "$config_sh" in
 ") config_sh='config.sh';;
 esac
 echo " "
 echo "Fetching answers from $config_sh..."
 cd ..
 . $config_sh
 test "$override" && . ./optdef.sh
 echo " "
?X: extract has to be run from the top directory, not within UU.
 . UU/extract
 rm -rf UU
 echo "Extraction done."
 exit 0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Extractall.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setpent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_setpent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:d_setpent: Inlibc
?MAKE: -pick add $@ %<
?S:d_setpent:
?S: This variable conditionally defines HAS_SETPROTOENT if setprotoent() is
?S: available.
?S:.
?C:HAS_SETPROTOENT:
?C: This symbol, if defined, indicates that the setprotoent() routine is
?C: available.
?C:.
?H:#$d_setpent HAS_SETPROTOENT  /**/
?H:.
?LINT:set d_setpent
: see if setprotoent
 exists
set setprotoent d_setpent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_setpent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strxfrm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_strxfrm.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:12:04  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_strxfrm: Inlibc
?MAKE: -pick add $@ %<
?S:d_strxfrm:
?S: This variable conditionally defines HAS_STRXFRM if strxfrm() is
?S: available to transform strings.
?S:.
?C:HAS_STRXFRM:
?C: This symbol, if defined, indicates that the strxfrm() routine is
?C: available to transform
```

```
 strings.
?C:.
?H:#$d_strxfrm HAS_STRXFRM /**/
?H:.
?LINT:set d_strxfrm
: see if strxfrm exists
set strxfrm d_strxfrm
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strxfrm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: privlib.U,v 3.1 1999/07/08 18:32:29 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: privlib.U,v $
?RCS: Revision 3.1  1999/07/08 18:32:29  doughera
?RCS: Updated for perl5.005_5x
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:17:09  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:44:23  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:31:52  ram
?RCS:
 patch32: now uses installation prefix
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:12:34  ram
?RCS: patch10: added support for /local/lib (WED)
?RCS: patch10: prompt phrasing made more explicit (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:privlib privlibexp installprivlib: package cat Getfile Oldconfig \
 Setprefixvar Prefixit version installstyle binexp
```

```
?MAKE: -pick add $@ %<
?Y:TOP
?D:privlib=''
?S:privlib:
?S: This variable contains the eventual value of the PRIVLIB symbol,
?S: which is the name of the private library for this package.  It may
?S: have a ~ on the front. It is up to the makefile to eventually create
?S: this directory while performing installation (with ~ substitution).
?S:.
?D:privlibexp=''
?S:privlibexp:
?S: This variable is the ~name expanded version of privlib, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installprivlib=''
?S:installprivlib:
?S: This variable
 is really the same as privlibexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?C:PRIVLIB:
?C: This symbol contains the name of the private library for this package.
?C: The library is private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.  The program
?C: should be prepared to do ~ expansion.
?C:.
?C:PRIVLIB_EXP:
?C: This symbol contains the ~name expanded version of PRIVLIB, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#define PRIVLIB "$privlib"  /**/
?H:#define PRIVLIB_EXP "$privlibexp"  /**/
?H:.
?LINT:change prefixvar
?LINT:set installprivlib
?LINT:set privlib
?LINT:set privlibexp
: determine where private library files go
: Usual default is /usr/local/lib/perl5/$version.
: Also allow things like /opt/perl/lib/$version, since
: /opt/perl/lib/perl5... would be redundant.
: The default "style"
 setting is made in installstyle.U
case "$installstyle" in
*lib/perl5*) set dflt privlib lib/$package/$version ;;
*)  set dflt privlib lib/$version ;;
esac
```

```
eval $prefixit
$cat <<EOM

There are some auxiliary files for $package that need to be put into a
private library directory that is accessible by everyone.

EOM
?X: Force dependency on bin.U
fn=$binexp
fn=d~+
rp='Pathname where the private library files will reside?'
. ./getfile
prefixvar=privlib
. ./setprefixvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/privlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endpent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_endpent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_endpent: Inlibc
?MAKE: -pick add $@ %<
?S:d_endpent:
?S: This variable conditionally defines HAS_ENDPROTOENT if endprotoent() is
?S: available to close whatever was being used for protocol queries.
?S:.
?C:HAS_ENDPROTOENT:
?C: This symbol, if defined, indicates that the endprotoent() routine is
?C: available to close whatever was being used
 for protocol queries.
?C:.
?H:#$d_endpent HAS_ENDPROTOENT  /**/
?H:.
?LINT:set d_endpent
```

```
: see if endprotoent exists
set endprotoent d_endpent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_endpent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extract.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  14:58:52  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:51:46  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which can be doted in order to extract
?X: .SH files with variable substitutions.
?X:
?X: When running Configure from a remote directory ($src
 is not '.'),
?X: then the files will be created in that directory, so beware!
?X:
?MAKE:Extract: Mkdirp src
?MAKE: -pick add $@ %<
?F:./extract
?T:CONFIG SRC dir file
: script used to extract .SH files with variable substitutions
cat >extract <<EOS
CONFIG=true
SRC="$src"
EOS
cat >>extract <<'EOS'
echo "Doing variable substitutions on .SH files..."
```

```
if test -f "$SRC/MANIFEST"; then
 set x `awk '{print $1}' <$SRC/MANIFEST | grep '\.SH'`
else
 echo "(Looking for .SH files under the source directory.)"
 set x `(cd "$SRC"; find . -name "*.SH" -print)`
fi
shift
case $# in
0) set x `(cd "$SRC"; echo *.SH)`; shift;;
esac
if test ! -f "$SRC/$1"; then
 shift
fi
for file in $*; do
 case "$SRC" in
 ".")
  case "$file" in
  */*)
   dir=`expr X$file : 'X\(.*\)/'`
   file=`expr X$file : 'X.*/\(.*\)'`
   (cd $dir && . ./$file)
   ;;
  *)
   . ./$file
   ;;
  esac
  ;;
 *)
?X:
?X: When running Configure remotely ($src is not '.'), we cannot source
?X: the files directly, since that would wrongly cause
 the extraction
?X: where the source lie instead of withing the current directory. Therefore,
?X: we need to 'sh <file' then, which is okay since they will source the
?X: existing config.sh file. It's not possible to use:
?X:  ../src/Configure -S -O -Dsomething
?X: unfortunately since no new config.sh with the -Dsomething override
?X: will be created before running the .SH files. A minor buglet.
?X:
?X: Note that we must create the directory hierarchy ourselves if it does
?X: not exist already, and that is done through a shell emulation of the
?X: 'mkdir -p' command. We don't want to use the $installdir metaconfig
?X: symbol here since that would require too much to be configured for
?X: this simple extraction task that may happen quickly with 'Configure -S'.
?X:  -- RAM, 18/03/96
?X:
  case "$file" in
  */*)
```

```
   dir=`expr X$file : 'X\(.*\)/'`
   file=`expr X$file : 'X.*/\(.*\)'`
   ./mkdirp $dir
   sh <"$SRC/$dir/$file"
   ;;
  *)
   sh <"$SRC/$file"
   ;;
  esac
  ;;
 esac
done
if
 test -f "$SRC/config_h.SH"; then
 if test ! -f config.h; then
?X: oops, they left it out of MANIFEST, probably, so do it anyway.
  sh <"$SRC/config_h.SH"
 fi
fi
EOS
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Extract.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_shadow.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_shadow: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_shadow:
?S: This variable conditionally defines the I_SHADOW symbol, and indicates
?S: whether a C program should include <shadow.h>.
?S:.
?C:I_SHADOW:
?C: This symbol, if defined, indicates that <shadow.h> exists and
?C: should be included.
?C:.
?H:#$i_shadow I_SHADOW  /**/
?H:.
?LINT:set i_shadow
: see if this is a shadow.h system
set shadow.h i_shadow
```

```
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_shadow.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:siteman3dir siteman3direxp installsiteman3dir: Getfile \
 Setprefixvar prefix siteprefix man3dir sed
?MAKE: -pick add $@ %<
?Y:TOP
?D:siteman3dir=''
?S:siteman3dir:
?S: This variable contains the name of the directory in which site-specific
?S: library man source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S: The standard distribution will put nothing in this directory.
?S: After
 perl has been installed, users may install their own local
?S: man3 pages in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:siteman3direxp=''
?S:siteman3direxp:
?S: This variable is the same as the siteman3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsiteman3dir=''
?S:installsiteman3dir:
?S: This variable is really the same as siteman3direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man3direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installsiteman3dir
```

```
?LINT:set siteman3dir
?LINT:set siteman3direxp
: determine where add-on library man pages go
case "$siteman3dir" in
") dflt=`echo $man3dir | $sed "s#^$prefix#$siteprefix#"` ;;
*) dflt=$siteman3dir ;;
esac
case "$dflt" in
"|' ') dflt=none ;;
esac
fn=dn+~
rp='Pathname
 where the site-specific library manual pages should be installed?'
. ./getfile
prefixvar=siteman3dir
. ./setprefixvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/siteman3dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: html1dir.U,v $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: html1dir.U,v $
?RCS:
?MAKE:html1dir html1direxp installhtml1dir: cat Loc Myread \
 spackage test Getfile Setprefixvar Prefixit Prefixup
?MAKE: -pick add $@ %<
?Y:TOP
?D:html1dir="
?S:html1dir:
?S: This variable contains the name of the directory in which html
?S: source pages are to be put.  This directory is for pages
?S: that describe whole programs, not libraries or modules.  It
?S: is intended to correspond roughly to section 1 of the Unix
?S: manuals.
?S:.
?D:html1direxp="
?S:html1direxp:
```

```
?S: This
 variable is the same as the html1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installhtml1dir="
?S:installhtml1dir:
?S: This variable is really the same as html1direxp, unless you are
?S: using a different installprefix.  For extra portability, you
?S: should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set html1direxp
?LINT:set installhtml1dir
: determine where html pages for programs go
set html1dir html1dir none
eval $prefixit
$cat <<EOM

If you wish to install html files for programs in $spackage, indicate
the appropriate directory here.  To skip installing html files,
answer "none".
EOM
case "$html1dir" in
"|none|$undef|' ') dflt=none ;;
*) dflt=$html1dir ;;
esac
fn=dn+~
rp="Directory for the main $spackage html pages?"
. ./getfile
prefixvar=html1dir
. ./setprefixvar
: Use ' ' for none so value is preserved next time through Configure
$test X"$html1dir" = "X" && html1dir=' '

Found
 in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
5.36.0/U/installdirs/html1dir.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_ualarm: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_ualarm:
?S: This variable conditionally defines the HAS_UALARM symbol, which
?S: indicates to the C program that the ualarm() routine is available.
?S:.
?C:HAS_UALARM:
?C: This symbol, if defined, indicates that the ualarm routine is
?C: available to do alarms with microsecond granularity.
?C:.
?H:#$d_ualarm HAS_UALARM  /**/
?H:.
?LINT:set d_ualarm
: see if ualarm exists
set ualarm d_ualarm
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_ualarm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_getprpwnam: Inlibc
?MAKE: -pick add $@ %<
?S:d_getprpwnam:
?S: This variable conditionally defines HAS_GETPRPWNAM if getprpwnam() is
?S: available to retrieve protected (shadow) password entries by name.
?S:.
?C:HAS_GETPRPWNAM:
?C: This symbol, if defined, indicates that the getprpwnam system call is
?C: available to retrieve protected (shadow) password entries by name.
?C:.
?H:#$d_getprpwnam HAS_GETPRPWNAM  /**/
?H:.
?LINT:set d_getprpwnam
: see if getprpwnam exists
set getprpwnam d_getprpwnam
eval $inlibc
```

Found
 in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_getprpwnam.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_umask.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_umask.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:14:50  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_umask: Inlibc
?MAKE: -pick add $@ %<
?S:d_umask:
?S: This variable conditionally defines the HAS_UMASK symbol, which
?S: indicates to the C program that the umask() routine is available.
?S: to set and get the value of the file creation mask.
?S:.
?C:HAS_UMASK :
?C: This
 symbol, if defined, indicates that the umask routine is
?C: available to set and get the value of the file creation mask.
?C:.
?H:#$d_umask HAS_UMASK  /**/
?H:.
?LINT:set d_umask
: see if umask exists
set umask d_umask
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_umask.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sizetype.U,v 3.0.1.1 1994/08/29 16:32:10 ram Exp $
?RCS:
```

```
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: sizetype.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:32:10  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:sizetype: Myread Typedef
?MAKE: -pick add $@ %<
?S:sizetype:
?S: This variable defines sizetype to be something like size_t,
?S: unsigned long, or whatever type is used to declare length
?S: parameters for string functions.
?S:.
?C:Size_t:
?C: This symbol holds the type used
 to declare length parameters
?C: for string functions.  It is usually size_t, but may be
?C: unsigned long, int, etc.  It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Size_t $sizetype  /* length parameter for string functions */
?H:.
?LINT: set sizetype
: see what type is used for size_t
rp="What is the type used for the length parameter for string functions?"
set size_t sizetype 'unsigned int' stdio.h sys/types.h
eval $typedef_ask
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/sizetype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: man3dir.U,v 3.1 1999/07/08 20:52:19 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1996-1999, Andy Dougherty
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
```

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: man3dir.U,v $
?RCS: Revision 3.1  1999/07/08 20:52:19  doughera
?RCS: Updated for perl5.005_5x
?RCS:
?RCS: Revision 3.0.1.1  1997/02/28  16:10:34  ram
?RCS: patch61: created
?RCS:
?X: This was originally specific to perl5.  Since perl5 has man pages that
?X: go in both man1/ and man3/ directories, we need both man1dir
?X: and man3dir.  This unit is basically dist's mansrc.U with
?X: man3 used instead
 of man everywhere.
?X: I then added various tests because perl5 has *lots* of man3
?X: pages with long file names. -- ADO
?X:
?MAKE:man3dir man3direxp man3ext installman3dir: cat nroff Loc Oldconfig \
 sed man1dir spackage package Getfile Setprefixvar Prefixit Prefixup \
 d_flexfnam privlib Myread test
?MAKE: -pick add $@ %<
?Y:TOP
?D:man3dir=''
?S:man3dir:
?S: This variable contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?D:man3direxp=''
?S:man3direxp:
?S: This variable is the same as the man3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installman3dir=''
?S:installman3dir:
?S: This variable is really the same as man3direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man3direxp only
 points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:man3ext:
?S: This variable contains the extension that the manual page should
?S: have: one of 'n', 'l', or '3'.  The Makefile must supply the '.'.
?S: See man3dir.
```

```
?S:.
?T:prog tdflt
?LINT:change prefixvar
?LINT:set man3direxp
: determine where library module manual pages go
set man3dir man3dir none
eval $prefixit
$cat <<EOM

$spackage has manual pages for many of the library modules.
EOM

case "$nroff" in
nroff)
 $cat <<'EOM'
However, you don't have nroff, so they're probably useless to you.
EOM
 case "$man3dir" in
 ") man3dir="none";;
 esac;;
esac

case "$d_flexfnam" in
undef)
 $cat <<'EOM'
However, your system can't handle the long file names like File::Basename.3.
EOM
 case "$man3dir" in
 ") man3dir="none";;
 esac;;
esac

echo "If you don't want the manual sources installed, answer 'none'."
?X: In 5.005_57 and earlier, I had the following notes:
?X:
 We do not use /usr/local/man/man3 because some man programs will
?X: only show the /usr/local/man/man3 contents, and not the system ones,
?X: thus man less will show the perl module less.pm, but not the system
?X: less command.  We might also conflict with Tcl man pages.
?X: However, something like /opt/perl/man/man3 is fine.
?X:
?X: However, opinion seems to be shifting such that 'man POSIX' ought
?X: to just work.  -- Andy Dougherty  July 8, 1999
?X:
?X: remove any trailing -3.0 or other version indication from $package
prog=`echo $package | $sed 's/-*[0-9.]*$//'`
case "$man3dir" in
") dflt=`echo "$man1dir" | $sed -e 's/man1/man3/g' -e 's/man\.1/man\.3/g'`
```

```
 if $test -d "$privlib/man/man3"; then
  cat <<EOM >&4

WARNING:  Previous versions of perl installed man3 pages into
$privlib/man/man3.  This version will suggest a
new default of $dflt.
EOM
  tdflt=$dflt
  dflt='n'
  rp='Do you wish to preserve the old behavior?(y/n)'
  . ./myread
  case "$ans" in
  y*) dflt="$privlib/man/man3"
 ;;
  *)  dflt=$tdflt ;;
  esac
   fi
 ;;
*) dflt="$man3dir" ;;
esac
case "$dflt" in
' ') dflt=none ;;
esac
echo " "
fn=dn+~
rp="Where do the $package library man pages (source) go?"
. ./getfile
prefixvar=man3dir
. ./setprefixvar

case "$man3dir" in
") man3dir=' '
 installman3dir=";;
esac

: What suffix to use on installed man pages
case "$man3dir" in
' ')
 man3ext='0'
 ;;
*)
 rp="What suffix should be used for the $package library man pages?"
 case "$man3ext" in
 ") case "$man3dir" in
  *3)  dflt=3 ;;
  *3p) dflt=3p ;;
  *3pm) dflt=3pm ;;
  *l) dflt=l;;
```

```
  *n) dflt=n;;
  *o) dflt=o;;
  *p) dflt=p;;
  *C) dflt=C;;
  *L) dflt=L;;
  *L3) dflt=L3;;
  *) dflt=3;;
  esac
  ;;
 *) dflt="$man3ext";;
 esac
 . ./myread
 man3ext="$ans"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/man3dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Warn_v7EXT.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Warn_v7EXT.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:01:42  ram
?RCS: patch36: call ./v7 explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit issues warnings to V7 sites that they are living dangerously.
?X: This unit needs to get mentioned in End.U to get included.
?X:
?MAKE:Warn_v7EXT: package Guess
?MAKE: -pick add $@ %<
: Warnings
if ./v7;
 then
 cat <<EOM
```

```
NOTE: the V7 compiler may ignore some #undefs that $package uses.  If so,
you may get messages about redefining EXT.  Some V7 compilers also have
difficulties with #defines near buffer boundaries, so beware.  You may have
to play with the spacing in some .h files, believe it or not.
EOM
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Warn_v7EXT.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_shmget.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_shmget.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:20  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_shmget: Inlibc
?MAKE: -pick add $@ %<
?S:d_shmget:
?S: This variable conditionally defines the HAS_SHMGET symbol, which
?S: indicates to the C program that the shmget() routine is available.
?S:.
?C:HAS_SHMGET:
?C: This symbol, if defined, indicates that the shmget() routine is
?C: available to request a shared memory segment from
 the kernel.
?C:.
?H:#$d_shmget HAS_SHMGET  /**/
?H:.
?LINT:set d_shmget
: see if shmget exists
set shmget d_shmget
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_shmget.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Extractall.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extractall.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:00:43  ram
?RCS: patch61: created
?RCS:
?X:
?X: If extraction has been requested, load the configuration file, perform
?X: the extraction and exit.
?X:
?X: This unit was originally a part of Options.U. It had to be removed from
?X: it to prevent a dependency cycle: Extract -> src -> Options -> Extract
?X: The Begin.U unit now requires us before beginning to do anything
?X: interesting, to ensure
 proper semantics. -- RAM, 15/03/96
?X:
?MAKE:Extractall: Extract Options
?MAKE: -pick wipe $@ %<
: extract files and exit if asked to do so
case "$extractsh" in
true)
?X: Undo the forced silent=true when -S was supplied, by probing realsilent
?X: which was set iff -s was also given. See Options.U for details.
 case "$realsilent" in
 true) ;;
 *) exec 1>&4;;
 esac
 case "$config_sh" in
 '') config_sh='config.sh';;
 esac
 echo " "
 echo "Fetching answers from $config_sh..."
 cd ..
 . $config_sh
?X: extract has to be run from the top directory, not within UU.
 . UU/optdef.sh
 echo " "
?X: extract has to be run from the top directory, not within UU.
```

```
 . UU/extract
 rm -rf UU
 echo "Extraction done."
 exit 0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Extractall.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2011, H.Merijn Brand & Tony Cook
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:st_ino_size st_ino_sign: cat echo i_stdlib Setvar Compile run rm_try
?MAKE: -pick add $@ %<
?S:st_ino_sign:
?S: This variable contains the signedness of struct stat's st_ino.
?S: 1 for unsigned, -1 for signed.
?S:.
?S:st_ino_size:
?S: This variable contains the size of struct stat's st_ino in bytes.
?S:.
?C:ST_INO_SIZE:
?C: This variable contains the size of struct stat's st_ino in bytes.
?C:.
?C:ST_INO_SIGN:
?C: This symbol holds the signedness of struct stat's st_ino.
?C: 1 for unsigned, -1 for signed.
?C:.
?H:#define ST_INO_SIGN
 $st_ino_sign /* st_ino sign */
?H:#define ST_INO_SIZE $st_ino_size /* st_ino size */
?H:.
?F:!try
: Check the size of st_ino
$echo " "
$echo "Checking the size of st_ino..." >&4
$cat > try.c <<EOCP
#include <sys/stat.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
```

```
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() {
   struct stat st;
   printf("%d\n", (int)sizeof(st.st_ino));
   exit(0);
}
EOCP
set try
if eval $compile_ok; then
 val=`$run ./try`
 case "$val" in
 ") st_ino_size=4
  $echo "(I can't execute the test program--guessing $st_ino_size.)" >&4
  ;;
 *) st_ino_size=$val
  $echo "Your st_ino is $st_ino_size bytes long."
  ;;
 esac
else
 st_ino_size=4
 $echo "(I can't compile the test program--guessing $st_ino_size.)" >&4
fi
$rm_try

: Check if st_ino is signed
$echo " "
$echo "Checking the sign of st_ino..." >&4
$cat > try.c <<EOCP
#include <sys/stat.h>
#include <stdio.h>
int main() {
 struct stat foo;
       foo.st_ino = -1;
 if (foo.st_ino < 0)
  printf("-1\n");
 else
  printf("1\n");
}
EOCP
set
 try
if eval $compile; then
 val=`$run ./try`
 case "$val" in
 ") st_ino_sign=1
  $echo "(I can't execute the test program--guessing unsigned.)" >&4
```

```
  ;;
 *) st_ino_sign=$val
  case "$st_ino_sign" in
   1) $echo "Your st_ino is unsigned." ;;
  -1) $echo "Your st_ino is signed."   ;;
  esac
  ;;
 esac
else
 st_ino_sign=1
 $echo "(I can't compile the test program--guessing unsigned.)" >&4
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/st_ino_def.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Mkdirp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extract.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  14:58:52  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:51:46  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which can launched to create a
?X: directory path like "mkdir -p" would do.
?X:
?MAKE:Mkdirp:
 eunicefix startsh
?MAKE: -pick add $@ %<
?F:./mkdirp
?T:name create file
```

```
: script used to emulate mkdir -p
cat >mkdirp <<EOS
$startsh
EOS
cat >>mkdirp <<'EOS'
name=$1;
create="";
while test $name; do
 if test ! -d "$name"; then
  create="$name $create"
  name=`echo $name | sed -e "s|^[^/]*$||"`
  name=`echo $name | sed -e "s|\(.*\)/.*|\1|"`
 else
  name=""
 fi
done
for file in $create; do
 mkdir $file
done
EOS
chmod +x mkdirp
$eunicefix mkdirp
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Mkdirp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getservent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getservent_r getservent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getservent_r:
?S: This variable conditionally defines the HAS_GETSERVENT_R symbol,
?S: which indicates to the C program that the getservent_r()
?S: routine is available.
?S:.
?S:getservent_r_proto:
?S: This variable encodes the prototype of getservent_r.
?S: It is zero if d_getservent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getservent_r
```

```
?S: is defined.
?S:.
?C:HAS_GETSERVENT_R:
?C: This symbol, if defined, indicates that the getservent_r routine
?C: is
 available to getservent re-entrantly.
?C:.
?C:GETSERVENT_R_PROTO:
?C: This symbol encodes the prototype of getservent_r.
?C: It is zero if d_getservent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getservent_r
?C: is defined.
?C:.
?H:#$d_getservent_r HAS_GETSERVENT_R /**/
?H:#define GETSERVENT_R_PROTO $getservent_r_proto /**/
?H:.
?T:try hdrs d_getservent_r_proto
: see if getservent_r exists
set getservent_r d_getservent_r
eval $inlibc
case "$d_getservent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getservent_r_proto:$usethreads" in
 ":define") d_getservent_r_proto=define
  set d_getservent_r_proto getservent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getservent_r_proto" in
 define)
 case "$getservent_r_proto" in
 "|0) try='int getservent_r(struct servent*, char*, size_t, struct servent**);'
 ./protochk "$extern_C $try" $hdrs && getservent_r_proto=I_SBWR ;;
 esac
 case "$getservent_r_proto"
 in
 "|0) try='int getservent_r(struct servent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getservent_r_proto=I_SBI ;;
 esac
 case "$getservent_r_proto" in
 "|0) try='struct servent* getservent_r(struct servent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getservent_r_proto=S_SBI ;;
 esac
 case "$getservent_r_proto" in
 "|0) try='int getservent_r(struct servent*, struct servent_data*);'
 ./protochk "$extern_C $try" $hdrs && getservent_r_proto=I_SD ;;
 esac
```

```
 case "$getservent_r_proto" in
 "|0) d_getservent_r=undef
  getservent_r_proto=0
  echo "Disabling getservent_r, cannot determine prototype." >&4 ;;
 * ) case "$getservent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getservent_r_proto="REENTRANT_PROTO_$getservent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getservent_r has no prototype, not using it." >&4 ;;
  esac
  d_getservent_r=undef
  getservent_r_proto=0
  ;;
 esac
 ;;
*) getservent_r_proto=0
 ;;
esac
```

Found
 in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getservent_r.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?MAKE:gccversion gccosandvers: cat cpp rm +cc \
 Myread Guess Options Oldconfig Loc osname osvers grep run ccname
?MAKE: -pick add $@ %<
?S:gccversion:
?S: If GNU cc (gcc) is used, this variable holds '1' or '3' (for instance)
?S: to indicate whether the compiler is version 1 or 3.  This is used in
?S: setting some of the default cflags.  It is set to '' if not gcc.
```

```
?S:.
?S:gccosandvers:
?S: If GNU cc (gcc) is used, this variable the operating system and
?S: version
 used to compile the gcc.  It is set to " if not gcc,
?S: or if nothing useful can be parsed as the os version.
?S:.
?T:gccshortvers incdir d
?F:!try.c !try
?LINT:extern locincpth ccflags ldflags
?LINT:change locincpth ccname cpp
: Check whether they have gcc in any guise.
echo " "
echo "Checking for GNU cc in disguise and/or its version number..." >&4
$cat >try.c <<EOM
#include <stdio.h>
int main() {
#ifdef __GNUC__
#ifdef __VERSION__
 printf("%s\n", __VERSION__);
#else
 printf("%s\n", "1");
#endif
#endif
 exit(0);
}
EOM
if $cc -o try $ccflags $ldflags try.c >/dev/null 2>&1; then
 gccversion=`$run ./try`
 case "$gccversion" in
 ") echo "You are not using GNU cc." ;;
 *)  echo "You are using GNU cc $gccversion."
     ccname=gcc
     ;;
 esac
else
 echo " "
 echo "*** WHOA THERE!!! ***" >&4
 echo "    Your C compiler \"$cc\" doesn't seem to be working!" >&4
?X: using -K will prevent aborting--maybe they're cross compiling?
 case "$knowitall" in
 ")
 echo "    You'd better
 start hunting for one and let me know about it." >&4
  exit 1
  ;;
 esac
fi
```

```
$rm -f try try.*
case "$gccversion" in
1*) cpp=`./loc gcc-cpp $cpp $pth` ;;
esac
case "$gccversion" in
") gccosandvers=" ;;
*) gccshortvers=`echo "$gccversion"|sed 's/ .*//'`
  gccosandvers=`$cc -v 2>&1 | \
 $grep '/specs$'|sed "s!.*/[^-/]*-[^-/]*-\([^-/]*\)/$gccshortvers/specs!\1!"`
  gccshortvers="
  case "$gccosandvers" in
  $osname) gccosandvers=" ;; # linux gccs seem to have no linux osvers, grr
  $osname$osvers) ;; # looking good
  $osname*) cat <<EOM >&4

*** WHOA THERE!!! ***

   Your gcc has not been compiled for the exact release of
   your operating system ($gccosandvers versus $osname$osvers).

   In general it is a good idea to keep gcc synchronized with
   the operating system because otherwise serious problems
   may ensue when trying to compile software, like Perl.

   I'm trying to be optimistic here, though, and will continue.
   If later during the configuration and build icky
 compilation
   problems appear (headerfile conflicts being the most common
   manifestation), I suggest reinstalling the gcc to match
   your operating system release.

EOM
     ;;
  *) gccosandvers=" ;; # failed to parse, better be silent
  esac
  ;;
esac
case "$ccname" in
") ccname="$cc" ;;
esac

: gcc 3.1 complains about adding -Idirectories that it already knows about,
: so we will take those off from locincpth.
case "$gccversion" in
3*)
   echo "main(){}">try.c
   for incdir in `$cc -v -c try.c 2>&1 | \
      sed '1,/^#include <\.\.\.>/d;/^End of search list/,$d;s/^ //'` ; do
```

```
    locincpth=`echo $locincpth | sed s!$incdir!!`
  done
  $rm -f try try.*
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/gccvers.U
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```
?RCS: $Id: locdist.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: locdist.U,v $
?RCS: Revision 3.0.1.1  1994/05/06  15:09:20  ram
?RCS: patch23: added support for multi-state regions (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:06  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:locdist orgdist citydist statedist multistatedist cntrydist contdist: \
 test newslibexp cat Myread Oldconfig
?MAKE: -pick add $@ %<
?S:locdist:
?S: This variable contains the eventual value of the LOCDIST symbol,
?S: which
 is the local organization's distribution name for news.
?S:.
?S:orgdist:
?S: This variable contains the eventual value of the ORGDIST symbol,
?S: which is the organization's distribution name for news.
?S:.
?S:citydist:
?S: This variable contains the eventual value of the CITYDIST symbol,
?S: which is the city's distribution name for news.
?S:.
?S:statedist:
?S: This variable contains the eventual value of the STATEDIST symbol,
?S: which is the state's or province's distribution name for news.
?S:.
?S:multistatedist:
```

```
?S: This variable contains the eventual value of the MULTISTATEDIST symbol,
?S: which is the news distribution code for multi-state region.
?S:.
?S:cntrydist:
?S: This variable contains the eventual value of the CNTRYDIST symbol,
?S: which is the country's distribution name for news.
?S:.
?S:contdist:
?S: This variable contains the eventual value of the CONTDIST symbol,
?S: which is the continent's distribution name for news.
?S:.
?C:LOCDIST:
?C: This symbol contains the
 distribution name for the news system that
?C: restricts article distribution to the local organization.
?C:.
?C:ORGDIST:
?C: This symbol contains the distribution name for the news system that
?C: restricts article distribution to the organization.
?C:.
?C:CITYDIST:
?C: This symbol contains the distribution name for the news system that
?C: restricts article distribution to the city.
?C:.
?C:STATEDIST:
?C: This symbol contains the distribution name for the news system that
?C: restricts article distribution to the state or province.
?C:.
?C:MULTISTATEDIST:
?C: This symbol contains the distribution name for the news system that
?C: restricts article distribution to a multi-state region.
?C:.
?C:CNTRYDIST:
?C: This symbol contains the distribution name for the news system that
?C: restricts article distribution to the country.
?C:.
?C:CONTDIST:
?C: This symbol contains the distribution name for the news system that
?C: restricts article distribution to the continent.
?C:.
?H:#define LOCDIST
 "$locdist"  /**/
?H:#define ORGDIST "$orgdist"  /**/
?H:#define CITYDIST "$citydist"  /**/
?H:#define MULTISTATEDIST "$multistatedist" /**/
?H:#define STATEDIST "$statedist"  /**/
?H:#define CNTRYDIST "$cntrydist"  /**/
?H:#define CONTDIST "$contdist"  /**/
```

```
?H:.
: get the local distributions
$cat <<'EOH'

Distribution groups are the things you use on the Distribution line to limit
where an article will go to.  You are likely to be a member of several
distribution groups, such as organization, city, state, province, country,
continent, etc.  For example, Los Angeles has the distribution code "la",
New Jersey has the code "nj", and Europe has the code "eunet".

The categories you will be asked are:

local organization (Could be just one machine or a cluster or an office)
organization  att, dec, kgb, ...
city   la, ny, mosc, ...
state/province  ca, nj, bc, ...
multi-state region pnw, ne, ...
country   usa, can, rok, whatever
continent  na (North America), asia, etc.

EOH
if $test
 -f $newslibexp/distributions; then
 case "$silent" in
 true) ;;
 *) dflt='Hit return to continue'
  rp=''
  . ./myread
  ;;
 esac
 echo "Here is your distributions file:" >&4
 echo " " >&4
 $cat >&4 $newslibexp/distributions
 echo " " >&4
fi
echo "Use 'none' for any distributions you don't have."
echo " "
case "$locdist" in
'') dflt="none";;
*)  dflt="$locdist";;
esac
rp="What is the distribution code for your local organization?"
. ./myread
locdist="$ans"
case "$orgdist" in
'') dflt="none";;
*)  dflt="$orgdist";;
esac
```

```
rp="What is the distribution code for your organization?"
. ./myread
orgdist="$ans"
case "$citydist" in
") dflt="none";;
*)  dflt="$citydist";;
esac
rp="What is the distribution code for your city?"
. ./myread
citydist="$ans"
case "$statedist" in
") dflt="none";;
*)  dflt="$statedist";;
esac
rp="What is the distribution code for your state/province?"
. ./myread
statedist="$ans"
case "$multistatedist" in
") dflt="none";;
*) dflt="$multistatedist";;
esac
rp="What is the
 distribution code for your multi-state region?"
. ./myread
multistatedist="$ans"
case "$cntrydist" in
") dflt="none";;
*)  dflt="$cntrydist";;
esac
rp="What is the distribution code for your country?"
. ./myread
cntrydist="$ans"
case "$contdist" in
") dflt="none";;
*)  dflt="$contdist";;
esac
rp="What is the distribution code for your continent?"
. ./myread
contdist="$ans"
$cat <<'EOM'

If you have any other distribution groups you will need to edit Pnews
and newsetup to add them.
EOM
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/locdist.U

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?RCS:
?MAKE:d_getitimer: Inlibc
?MAKE: -pick add $@ %<
?S:d_getitimer:
?S: This variable conditionally defines the HAS_GETITIMER symbol, which
?S: indicates to the C program that the getitimer() routine is available.
?S:.
?C:HAS_GETITIMER:
?C: This symbol, if defined, indicates that the getitimer routine is
?C: available to return interval timers.
?C:.
?H:#$d_getitimer HAS_GETITIMER  /**/
?H:.
?LINT:set d_getitimer
: see if getitimer exists
set getitimer d_getitimer
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_getitimer.U
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```
?RCS: $Id: d_getnbyad.U,v $
?RCS:
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?RCS:
?MAKE:d_getnbyaddr: Inlibc
?MAKE: -pick add $@ %<
?S:d_getnbyaddr:
?S: This variable conditionally defines the HAS_GETNETBYADDR symbol, which
?S: indicates to the C program that the getnetbyaddr() routine is available
?S: to look up networks by their IP addresses.
?S:.
?C:HAS_GETNETBYADDR:
?C: This symbol, if defined, indicates that the getnetbyaddr() routine is
?C: available to look up networks by their IP addresses.
```

```
?C:.
?H:#$d_getnbyaddr HAS_GETNETBYADDR  /**/
?H:.
?LINT:set d_getnbyaddr
: see if getnetbyaddr exists
set getnetbyaddr d_getnbyaddr
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_getnbyad.U
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```
?RCS: $Id: warnflags.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Orginal Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: warnflags.U,v $
?RCS: Revision 3.0  1993/08/18  12:10:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:warnflags: cat cc contains Myread Guess Oldconfig Findhdr
?MAKE: -pick add $@ %<
?S:warnflags:
?S: This variable contains any additional C compiler flags to generate
?S: warnings from the compiler. It is up to the Makefile to use this.
?S:.
: offer additional
 warning flags for compilation
$cat <<EOH

You may wish to compile with extra compiler warnings enabled.
Note that doing so enhances your chance of receiving your free set of steak
knives, particularly if you find any bugs and report them.
If you don't want extra warnings, answer "none".

EOH
case "$warnflags" in
") case "$cc" in
 *gcc*)
```

```
  dflt="-Wall -Wno-comment"
  if $contains 'fprintf' `./findhdr stdio.h` >/dev/null 2>&1; then
   :
  else
   dflt="$dflt -Wno-implicit"
  fi
  ;;
 *) dflt="none";;
 esac
 ;;
' ') dflt="none";;
*) dflt="$warnflags";;
esac

rp="Any $cc flags to enable warnings?"
. ./myread
case "$ans" in
none) warnflags=' ';;
*) warnflags="$ans";;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/warnflags.U
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```
?RCS: $Id: sitearch.U,v 3.1 1999/07/08 18:32:29 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sitearch.U,v $
?RCS: Revision 3.1  1999/07/08 18:32:29  doughera
?RCS: Updated for perl5.005_5x
?RCS:
?RCS: Revision 3.0.1.1  1997/02/28  16:21:30  ram
?RCS: patch61: created
?RCS:
?MAKE:sitearch sitearchexp installsitearch d_sitearch: cat sed Getfile \
 Oldconfig Setprefixvar Prefixit test archname sitelib
?MAKE: -pick add $@ %<
?Y:TOP
```

```
?D:sitearch="
?S:sitearch:
?S: This variable contains the eventual
 value of the SITEARCH symbol,
?S: which is the name of the private library for this package.  It may
?S: have a ~ on the front. It is up to the makefile to eventually create
?S: this directory while performing installation (with ~ substitution).
?S: The standard distribution will put nothing in this directory.
?S: After perl has been installed, users may install their own local
?S: architecture-dependent modules in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitearchexp="
?S:sitearchexp:
?S: This variable is the ~name expanded version of sitearch, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installsitearch="
?S:installsitearch:
?S: This variable is really the same as sitearchexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?D:d_sitearch="
?S:d_sitearch:
?S: This variable conditionally defines SITEARCH to hold the
 pathname
?S: of architecture-dependent library files for $package.  If
?S: $sitearch is the same as $archlib, then this is set to undef.
?S:.
?C:SITEARCH:
?C: This symbol contains the name of the private library for this package.
?C: The library is private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.  The program
?C: should be prepared to do ~ expansion.
?C: The standard distribution will put nothing in this directory.
?C: After perl has been installed, users may install their own local
?C: architecture-dependent modules in this directory with
?C:  MakeMaker Makefile.PL
?C: or equivalent.  See INSTALL for details.
?C:.
?C:SITEARCH_EXP:
?C: This symbol contains the ~name expanded version of SITEARCH, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#$d_sitearch SITEARCH "$sitearch"  /**/
?H:#$d_sitearch SITEARCH_EXP "$sitearchexp"  /**/
```

```
?H:.
?LINT:change prefixvar
?LINT:set installsitearch
?LINT:set
 sitearch
?LINT:set sitearchexp
: determine where site specific architecture-dependent libraries go.
: sitelib  default is /usr/local/lib/perl5/site_perl/$version
: sitearch default is /usr/local/lib/perl5/site_perl/$version/$archname
: sitelib may have an optional trailing /share.
case "$sitearch" in
") dflt=`echo $sitelib | $sed 's,/share$,,'`
 dflt="$dflt/$archname"
 ;;
*) dflt="$sitearch"
 ;;
esac
set sitearch sitearch none
eval $prefixit
$cat <<EOM

The installation process will also create a directory for
architecture-dependent site-specific extensions and modules.

EOM
fn=d~+
rp='Pathname for the site-specific architecture-dependent library files?'
. ./getfile
prefixvar=sitearch
. ./setprefixvar
if $test X"$sitearch" = X"$sitelib"; then
 d_sitearch="$undef"
else
 d_sitearch="$define"
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/sitearch.U
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```
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```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_gethname.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:13:00  ram
?RCS: patch36: call ./xenix explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:11  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_gethname d_uname d_phostname aphostname: phostname cat \
 myhostname package d_portable Loc echo n c +i_whoami +usrinc \
 Myread Guess Oldconfig Csym
?MAKE: -pick add $@ %<
?S:d_gethname:
?S: This variable conditionally defines the HAS_GETHOSTNAME symbol,
 which
?S: indicates to the C program that the gethostname() routine may be
?S: used to derive the host name.
?S:.
?S:d_uname:
?S: This variable conditionally defines the HAS_UNAME symbol, which
?S: indicates to the C program that the uname() routine may be
?S: used to derive the host name.
?S:.
?S:d_phostname:
?S: This variable conditionally defines the PHOSTNAME symbol, which
?S: contains the shell command which, when fed to popen(), may be
?S: used to derive the host name.
?S:.
?S:aphostname:
?S: Thie variable contains the command which can be used to compute the
?S: host name. The command is fully qualified by its absolute path, to make
?S: it safe when used by a process with super-user privileges.
?S:.
?C:HAS_GETHOSTNAME (GETHOSTNAME):
?C: This symbol, if defined, indicates that the C program may use the
?C: gethostname() routine to derive the host name.  See also HAS_UNAME
?C: and PHOSTNAME.
?C:.
?C:HAS_UNAME (UNAME):
?C: This symbol, if defined, indicates that the C program may
 use the
?C: uname() routine to derive the host name.  See also HAS_GETHOSTNAME
?C: and PHOSTNAME.
?C:.
?C:PHOSTNAME:
?C: This symbol, if defined, indicates that the C program may use the
```

```
?C: contents of PHOSTNAME as a command to feed to the popen() routine
?C: to derive the host name.  See also HAS_GETHOSTNAME and HAS_UNAME.
?C: Note that the command uses a fully qualified path, so that it is safe
?C: even if used by a process with super-user privileges.
?C:.
?H:#$d_gethname HAS_GETHOSTNAME /**/
?H:#$d_uname HAS_UNAME  /**/
?H:#$d_phostname PHOSTNAME "$aphostname" /* How to get the host name */
?H:.
?T:file val call
?LINT:change i_whoami
: see how we will look up host name
echo " "
if false; then
 : dummy stub to allow use of elif
@if HAS_GETHOSTNAME
elif set gethostname val -f d_gethname; eval $csym; $val; then
 echo 'gethostname() found.' >&4
 d_gethname="$define"
 call=gethostname
@end
@if HAS_UNAME
elif set uname val -f d_uname; eval $csym; $val; then
 if ./xenix; then
  $cat <<'EOM'
uname()
 was found, but you're running xenix, and older versions of xenix
have a broken uname(). If you don't really know whether your xenix is old
enough to have a broken system call, use the default answer.

EOM
  dflt=y
  case "$d_uname" in
  "$define") dflt=n;;
  esac
  rp='Is your uname() broken?'
  . ./myread
  case "$ans" in
  n*) d_uname="$define"; call=uname;;
  esac
 else
  echo 'uname() found.' >&4
  d_uname="$define"
  call=uname
 fi
@end
fi
case "$d_gethname" in
```

```
") d_gethname="$undef";;
esac
case "$d_uname" in
") d_uname="$undef";;
esac
@if PHOSTNAME || MYHOSTNAME
case "$d_uname$d_gethname" in
*define*)
 dflt=n
 cat <<EOM

Every now and then someone has a $call() that lies about the hostname
but can't be fixed for political or economic reasons.  If you wish, I can
@if MYHOSTNAME && PHOSTNAME
pretend $call() isn't there and maybe compile in the hostname or
compute it from the '$phostname' command at run-time.
@elsif MYHOSTNAME
pretend $call() isn't there and maybe compile
 in the hostname.
@elsif PHOSTNAME
pretend $call() isn't there and maybe compute hostname at run-time
thanks to the '$phostname' command.
@elsif WHOAMI
get the hostname from whomai.h (provided you have one).
@else
simply ignore your host name and use someting like "noname" instead.
@end

EOM
 rp="Shall I ignore $call() from now on?"
 . ./myread
 case "$ans" in
 y*) d_uname="$undef" d_gethname="$undef"; $echo $n "Okay...$c";;
 esac;;
esac
@end
@if PHOSTNAME || aphostname
?X: Compute the full path name for the command
case "$phostname" in
") aphostname=";;
*) case "$aphostname" in
 /*) ;;
 *) set X $phostname
  shift
  file=$1
  shift
  file=`./loc $file $file $pth`
  aphostname=`echo $file $*`
```

```
  ;;
 esac
 ;;
esac
@end
@if PHOSTNAME && MYHOSTNAME
case "$d_uname$d_gethname" in
*define*) ;;
*)
 case "$phostname" in
 ") ;;
 *)
  $cat <<EOT

There is no gethostname() or uname() on this system.  You have two
possibilities at this point:

1)  You can have your host name ($myhostname) compiled
 into $package, which
   lets $package start up faster, but makes your binaries non-portable, or
2)  you can have $package use a

 popen("$aphostname","r")

   which will start slower but be more portable.

@ if WHOAMI
Option 1 will give you the option of using whoami.h if you have one.
@ end
If you want option 2 but with a different command, you can edit config.sh at
the end of this shell script.

EOT
  case "$d_phostname" in
  "$define") dflt=n;;
  "$undef")  dflt=y;;
  ")
   case "$d_portable" in
   "$define") dflt=n ;;
   *) dflt=y ;;
   esac;;
  esac
  rp="Do you want your host name compiled in?"
  . ./myread
  case "$ans" in
  n*) d_phostname="$define" ;;
  *) aphostname="; d_phostname="$undef";;
  esac;;
```

```
 esac
 case "$aphostname" in
 ")
@ if WHOAMI
  case "$i_whoami" in
  "$define")
   dflt=y
   $cat <<EOM

No hostname function--you can either use the whoami.h file, which has this line:

 `grep sysname $usrinc/whoami.h`

or you can have the name we came up with earlier
 ($myhostname) hardwired in.
EOM
   rp="Use whoami.h to get hostname?"
   . ./myread
   case "$ans" in
   n*) i_whoami="$undef";;
   esac
   ;;
  "$undef")
   $cat <<EOM
No hostname function and no whoami.h -- hardwiring "$myhostname".
EOM
   ;;
  esac;;
@ else
  echo 'No hostname function -- hardwiring "'$myhostname'".' >&4;;
@ end
 esac;;
esac
@elsif PHOSTNAME
case "$d_uname$d_gethname" in
*define*) ;;
*)
 case "$phostname" in
 ")
@ if WHOAMI
  case "$i_whoami" in
  "$define")
   $cat <<EOM

No hostname function--we'll use the whoami.h file, which has this line:

 `grep sysname $usrinc/whoami.h`
```

```
EOM
   ;;
  *) echo "There will be no way for $package to get your hostname." >&4;;
  esac;;
@ else
  echo "There will be no way for $package to get your hostname." >&4;;
@ end
 *)
 echo "I'll use 'popen("""$aphostname"', "r")"" to get your hostname." >&4
  ;;
 esac;;
esac
@elsif MYHOSTNAME
case "$d_uname$d_gethname" in
*define*) ;;
*)
@ if WHOAMI
 case "$i_whoami" in
 "$define")
  dflt=y
  $cat
 <<EOM

No hostname function--you can either use the whoami.h file, which has this line:

 `grep sysname $usrinc/whoami.h`

or you can have the name we came up with earlier ($myhostname) hardwired in.
EOM
  rp="Use whoami.h to get hostname?"
  . ./myread
  case "$ans" in
  n*) i_whoami="$undef";;
  esac
  ;;
 "$undef")
  echo 'No whoami.h--hardwiring "'$myhostname'".' >&4;;
 esac;;
@ else
 echo 'Hardwiring "'$myhostname'".' >&4;;
@ end
esac
@end
case "$d_phostname" in
") d_phostname="$undef";;
esac
```

Found in path(s):

* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_gethname.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_asctime_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_asctime_r asctime_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_time i_systime extern_C
?MAKE: -pick add $@ %<
?S:d_asctime_r:
?S: This variable conditionally defines the HAS_ASCTIME_R symbol,
?S: which indicates to the C program that the asctime_r()
?S: routine is available.
?S:.
?S:asctime_r_proto:
?S: This variable encodes the prototype of asctime_r.
?S: It is zero if d_asctime_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_asctime_r
?S: is defined.
?S:.
?C:HAS_ASCTIME_R:
?C: This symbol, if defined, indicates that the asctime_r routine
?C: is available to asctime
 re-entrantly.
?C:.
?C:ASCTIME_R_PROTO:
?C: This symbol encodes the prototype of asctime_r.
?C: It is zero if d_asctime_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_asctime_r
?C: is defined.
?C:.
?H:#$d_asctime_r HAS_ASCTIME_R /**/
?H:#define ASCTIME_R_PROTO $asctime_r_proto /**/
?H:.
?T:try hdrs d_asctime_r_proto
: see if asctime_r exists
set asctime_r d_asctime_r
eval $inlibc
case "$d_asctime_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_time time.h $i_systime sys/time.h"
 case "$d_asctime_r_proto:$usethreads" in
```

```
":define") d_asctime_r_proto=define
 set d_asctime_r_proto asctime_r $hdrs
 eval $hasproto ;;
*) ;;
esac
case "$d_asctime_r_proto" in
define)
case "$asctime_r_proto" in
"|0) try='char* asctime_r(const struct tm*, char*);'
./protochk "$extern_C $try" $hdrs && asctime_r_proto=B_SB ;;
esac
case "$asctime_r_proto" in
"|0) try='char* asctime_r(const struct tm*, char*, int);'
./protochk "$extern_C $try" $hdrs
&& asctime_r_proto=B_SBI ;;
esac
case "$asctime_r_proto" in
"|0) try='int asctime_r(const struct tm*, char*);'
./protochk "$extern_C $try" $hdrs && asctime_r_proto=I_SB ;;
esac
case "$asctime_r_proto" in
"|0) try='int asctime_r(const struct tm*, char*, int);'
./protochk "$extern_C $try" $hdrs && asctime_r_proto=I_SBI ;;
esac
case "$asctime_r_proto" in
"|0) d_asctime_r=undef
 asctime_r_proto=0
 echo "Disabling asctime_r, cannot determine prototype." >&4 ;;
* ) case "$asctime_r_proto" in
 REENTRANT_PROTO*) ;;
 *) asctime_r_proto="REENTRANT_PROTO_$asctime_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "asctime_r has no prototype, not using it." >&4 ;;
 esac
 d_asctime_r=undef
 asctime_r_proto=0
 ;;
esac
;;
*) asctime_r_proto=0
 ;;
esac
```

Found in path(s):

* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_asctime_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Obsol_h.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Obsol_h.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:11  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file is prepended to .MT/Obsol_h if that file is not empty. That file
?X: contains the necessary mappings of new symbols to obsolete ones.
?X:
?MAKE:Obsol_h:
?MAKE: -pick prepend $@ ./Obsol_h
?LINT:nocomment
/*
* The following symbols are obsolete. They are mapped to the new
* symbols only to ease the transition process. The sources
 should be
* updated so as to use the new symbols only, as the support for these
* obsolete symbols may end without notice.
*/
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Obsol_h.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: d_vprintf.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:59  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_vprintf d_charvspr: Guess cat +cc +ccflags Csym Setvar
?MAKE: -pick add $@ %<
?S:d_vprintf:
?S: This variable conditionally defines the HAS_VPRINTF symbol, which
?S: indicates to the C program that the vprintf() routine is available
?S: to printf with a pointer to an argument list.
?S:.
?S:d_charvspr:
?S: This variable conditionally defines CHARVSPRINTF if this system
?S: has
 vsprintf returning type (char*).  The trend seems to be to
?S: declare it as "int vsprintf()".
?S:.
?C:HAS_VPRINTF (VPRINTF):
?C: This symbol, if defined, indicates that the vprintf routine is available
?C: to printf with a pointer to an argument list.  If unavailable, you
?C: may need to write your own, probably in terms of _doprnt().
?C:.
?C:USE_CHAR_VSPRINTF (CHARVSPRINTF):
?C: This symbol is defined if this system has vsprintf() returning type
?C: (char*).  The trend seems to be to declare it as "int vsprintf()".  It
?C: is up to the package author to declare vsprintf correctly based on the
?C: symbol.
?C:.
?H:#$d_vprintf HAS_VPRINTF /**/
?H:#$d_charvspr USE_CHAR_VSPRINTF  /**/
?H:.
?F:!vprintf !vprintf.c
?T:val2
?LINT:set d_vprintf d_charvspr
: see if vprintf exists
echo " "
if set vprintf val -f d_vprintf; eval $csym; $val; then
 echo 'vprintf() found.' >&4
 val="$define"
 $cat >vprintf.c <<'EOF'
#include <varargs.h>

int main() { xxx("foo"); }

xxx(va_alist)
va_dcl
{
 va_list args;
```

```
 char
 buf[10];

 va_start(args);
 exit((unsigned long)vsprintf(buf,"%s",args) > 10L);
}
EOF
 if $cc $ccflags -o vprintf vprintf.c >/dev/null 2>&1 && ./vprintf; then
  echo "Your vsprintf() returns (int)." >&4
  val2="$undef"
 else
  echo "Your vsprintf() returns (char*)." >&4
  val2="$define"
 fi
else
 echo 'vprintf() NOT found.' >&4
  val="$undef"
  val2="$undef"
fi
set d_vprintf
eval $setvar
val=$val2
set d_charvspr
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_vprintf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_poll.U,v $
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_langinfo: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_langinfo:
?S: This variable conditionally defines the I_LANGINFO symbol,
?S: and indicates whether a C program should include <langinfo.h>.
?S:.
?C:I_LANGINFO:
?C: This symbol, if defined, indicates that <langinfo.h> exists and
?C: should be included.
?C:.
?H:#$i_langinfo I_LANGINFO  /**/
```

```
?H:.
?LINT:set i_langinfo
: see if this is a langinfo.h system
set langinfo.h i_langinfo
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_langinfo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: nis.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:17:38  ram
?RCS: patch61: ensure suitable defaults for hostcat and friends
?RCS:
?RCS: Revision 3.0.1.2  1995/03/21  08:48:34  ram
?RCS: patch52: continued fix for NeXT NIS/NetInfo handling
?RCS:
?RCS: Revision 3.0.1.1  1995/02/15  14:16:23  ram
?RCS: patch51: now correctly handles NeXT using NIS rather than NetInfo
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:passcat groupcat hostcat:
 Myread Oldconfig test contains
?MAKE: -pick add $@ %<
?S:passcat:
?S: This variable contains a command that produces the text of the
?S: /etc/passwd file.  This is normally "cat /etc/passwd", but can be
?S: "ypcat passwd" when NIS is used.
?S:.
?S:groupcat:
?S: This variable contains a command that produces the text of the
?S: /etc/group file.  This is normally "cat /etc/group", but can be
?S: "ypcat group" when NIS is used.
?S:.
?S:hostcat:
```

```
?S: This variable contains a command that produces the text of the
?S: /etc/hosts file.  This is normally "cat /etc/hosts", but can be
?S: "ypcat hosts" when NIS is used.
?S:.
: see if we have to deal with yellow pages, now NIS.
?X: NeXT gives us some fun here, as always, by having both NIS (former YP)
?X: and NetInfo. But since it has both, it's ok to put the test inside the if.
?X: Contributed by Thomas Neumann <tom@smart.bo.open.de>.
if $test -d /usr/etc/yp || $test -d /etc/yp || $test -d /usr/lib/yp; then
 if $test -f /usr/etc/nibindd; then
  echo
 " "
  echo "I'm fairly confident you're on a NeXT."
@if passcat || groupcat
  echo " "
  rp='Do you get the passwd file via NetInfo?'
  dflt=y
  case "$passcat" in
  nidump*) ;;
  ") ;;
  *) dflt=n;;
  esac
  . ./myread
  case "$ans" in
  y*) passcat='nidump passwd .'
@if groupcat
   echo "(Assuming /etc/group is also distributed.)"
   groupcat='nidump group .'
@end
   ;;
  *) echo "You told me, so don't blame me."
   case "$passcat" in
   nidump*) passcat="
@if groupcat
     groupcat=";;
@end
   esac
@if groupcat
   echo "(Assuming /etc/group is handled the same way.)"
@end
   ;;
  esac
@end
@if hostcat
  echo " "
  rp='Do you get the hosts file via NetInfo?'
  dflt=y
  case "$hostcat" in
```

```
  nidump*) ;;
  ") ;;
  *) dflt=n;;
  esac
  . ./myread
  case "$ans" in
  y*) hostcat='nidump hosts .';;
  *) case "$hostcat" in
   nidump*) hostcat=";;
   esac
   ;;
  esac
@end
 fi
@if passcat || groupcat
 case "$passcat" in
 nidump*) ;;
 *)
  case "$passcat" in
  *ypcat*) dflt=y;;
  ")
 if $contains '^\+' /etc/passwd >/dev/null 2>&1; then
    dflt=y
   else
    dflt=n
   fi;;
  *) dflt=n;;
  esac
  echo " "
  rp='Are you getting the passwd file via yellow pages?'
  . ./myread
  case "$ans" in
  y*) passcat='ypcat passwd'
@if groupcat
   echo "(Assuming /etc/group is also distributed.)"
   groupcat='ypcat group'
@end
   ;;
  *) passcat='cat /etc/passwd'
@if groupcat
   echo "(Assuming /etc/group is also local.)"
   groupcat='cat /etc/group'
@end
   ;;
  esac
  ;;
 esac
@end
```

```
@if hostcat
 case "$hostcat" in
 nidump*) ;;
 *)
  case "$hostcat" in
  *ypcat*) dflt=y;;
  ") if $contains '^\+' /etc/passwd >/dev/null 2>&1; then
    dflt=y
   else
    dflt=n
   fi;;
  *) dflt=n;;
  esac
  echo " "
  rp='Are you getting the hosts file via yellow pages?'
  . ./myread
  case "$ans" in
  y*) hostcat='ypcat hosts';;
  *) hostcat='cat /etc/hosts';;
  esac
  ;;
 esac
@end
fi
?X: Ensure suitable default -- Manoj Srivastava
case "$hostcat" in
") hostcat=':'
 $test -f /etc/hosts && hostcat='cat
 /etc/hosts';;
esac
case "$groupcat" in
") groupcat=':'
 $test -f /etc/group && groupcat='cat /etc/group';;
esac
case "$passcat" in
") passcat=':'
 $test -f /etc/passwd && passcat='cat /etc/passwd';;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/nis.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: abortsig.U,v 3.0.1.1 1994/10/29 16:02:19 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: abortsig.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:02:19  ram
?RCS: patch36: call ./usg explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:20  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:abortsig: Myread Oldconfig Guess cat Compile rm
?MAKE: -pick add $@ %<
?S:abortsig:
?S: This variable holds the name of the signal used by the abort() call.
?S:.
?C:ABORTSIG:
?C: This symbol holds the signal number (symbol)
 used by the abort() call. To
?C: actually define the signal symbol, <signal.h> should be included.
?C:.
?H:#define ABORTSIG $abortsig  /**/
?H:.
?T:signal
: which signal is sent by abort ?
echo " "
case "$abortsig" in
")
 echo "Checking to see which signal is sent to the process by abort()..." >&4
 echo "abort" > abort.sh
 chmod +x abort.sh
?X: SIGABRT should replace SIGIOT on USG machines in a near future (1991).
 for signal in SIGIOT SIGILL SIGABRT; do
  case "$abortsig" in
  ") $cat >abort.c <<EOP
#include <signal.h>
caught() { exit(0); }
int main()
{
#ifdef $signal
 signal($signal, caught);
#endif
 if (-1 == abort())
  exit(1);
 exit(1);
}
```

```
EOP
?X: We have to use the abort.sh script otherwise sh behaves strangely on AIX.
   set abort
   if eval $compile; then
    (./abort.sh) >/dev/null 2>&1
    case $? in
    0) abortsig="$signal";;
    esac
   fi
   ;;
  esac
 done
 ;;
esac
case "$abortsig" in
") echo "(I wasn't able to compute the signal name--guessing)"
 if ./usg; then
  dflt="SIGIOT"
 else
  dflt="SIGILL"
 fi;;
*)
  dflt="$abortsig"
 ;;
esac
rp="Which signal does abort() send to the process (signal name)?"
. ./myread
abortsig="$ans"
$rm -f core abort.sh abort abort.c
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/abortsig.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_lc_monetary_2008: cat Compile rm_try d_locconv
?MAKE: -pick add $@ %<
?S:d_lc_monetary_2008:
?S: This variable conditionally defines HAS_LC_MONETARY_2008 if libc
?S: has the international currency locale rules from POSIX
?S: 1003.1-2008.
?S:.
```

```
?C:HAS_LC_MONETARY_2008:
?C: This symbol, if defined, indicates that the localeconv routine is
?C: available and has the additional members added in POSIX 1003.1-2008.
?C:.
?H:#$d_lc_monetary_2008 HAS_LC_MONETARY_2008  /**/
?H:.
: see if libc has the POSIX.1-2008 currency locale rules
case "$d_locconv:$d_lc_monetary_2008" in
$define:)
 $cat
 >try.c <<EOCP
#include <locale.h>
int main() {
 struct lconv *lc = localeconv();
 char int_p_cs_precedes = lc->int_p_cs_precedes;
 return 0;
}
EOCP
 set try
 if eval $compile; then
  d_lc_monetary_2008="$define"
 else
  d_lc_monetary_2008="$undef"
 fi;
 $rm_try
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_lc_monetary_2008.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_readlink.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_readlink.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:11:52  ram
?RCS: patch32: created by ADO
```

```
?RCS:
?MAKE:d_readlink: Inlibc
?MAKE: -pick add $@ %<
?S:d_readlink:
?S: This variable conditionally defines the HAS_READLINK symbol, which
?S: indicates to the C program that the readlink() routine is available
?S: to read the value of a symbolic link.
?S:.
?C:HAS_READLINK :
?C: This
 symbol, if defined, indicates that the readlink routine is
?C: available to read the value of a symbolic link.
?C:.
?H:#$d_readlink HAS_READLINK  /**/
?H:.
?LINT:set d_readlink
: see if readlink exists
set readlink d_readlink
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_readlink.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ftrncate.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_ftrncate.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_ftrncate: Inlibc
?MAKE: -pick add $@ %<
?S:d_ftrncate (d_ftruncate):
?S: This variable conditionally defines the HAS_FTRUNCATE symbol, which
?S: indicates to the C program that the ftruncate() subroutine exists.
?S:.
?C:HAS_FTRUNCATE:
?C: This symbol, if defined, indicates that the ftruncate() subroutine
?C: exists.
```

```
?C:.
?H:#$d_ftrncate
 HAS_FTRUNCATE /**/
?H:.
?LINT:set d_ftrncate
: see if ftruncate exists
set ftruncate d_ftrncate
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_ftrncate.U
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```
?RCS: $Id: i_stddef.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_stddef.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_stddef: Inhdr
?MAKE: -pick add $@ %<
?S:i_stddef:
?S: This variable conditionally defines the I_STDDEF symbol, which
?S: indicates to the C program that <stddef.h> exists and should
?S: be included.
?S:.
?C:I_STDDEF:
?C: This symbol, if defined, indicates that <stddef.h> exists and should
?C: be included.
?C:.
?H:#$i_stddef I_STDDEF /**/
?H:.
?LINT:set
 i_stddef
: see if stddef is available
set stddef.h i_stddef
eval $inhdr
```

Found in path(s):

* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_stddef.U
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```
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?RCS:
?MAKE:d_isfinitel: Inlibc
?MAKE: -pick add $@ %<
?S:d_isfinitel:
?S: This variable conditionally defines the HAS_ISFINITEL symbol, which
?S: indicates to the C program that the isfinitel() routine is available.
?S:.
?C:HAS_ISFINITEL:
?C: This symbol, if defined, indicates that the isfinitel routine is
?C: available to check whether a long double is finite.
?C: (non-infinity non-NaN).
?C:.
?H:#$d_isfinitel HAS_ISFINITEL  /**/
?H:.
?LINT:set d_isfinitel
: see if isfinitel exists
set isfinitel d_isfinitel
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_isfinitel.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:Devel usedevel: Myread rsrc package
?MAKE: -pick wipe $@ %<
?T:xversion
?X: waiver of rights
```

```
?S:usedevel:
?S: This variable indicates that Perl was configured with development
?S: features enabled.  This should not be done for production builds.
?S:.
?C:PERL_USE_DEVEL:
?C: This symbol, if defined, indicates that Perl was configured with
?C: -Dusedevel, to enable development features.  This should not be
?C: done for production builds.
?C:.
?H:#$usedevel PERL_USE_DEVEL  /**/
?H:.
?LINT:extern versiononly
?LINT:extern
 installusrbinperl
?LINT:change versiononly
?LINT:change installusrbinperl
: See if we are using a devel version and want that
xversion=`awk '/define[  ]+PERL_VERSION/ {print $3}' $rsrc/patchlevel.h`
case "$usedevel" in
$define|true|[yY]*)
   usedevel="$define" ;;
*) case "$xversion" in
  *[13579])
 cat >&4 <<EOH
*** WHOA THERE!!! ***

   This is an UNSTABLE DEVELOPMENT release.
   The version of this $package distribution is $xversion, that is, odd,
   (as opposed to even) and that signifies a development release.
   If you want a maintenance release, you want an even-numbered version.

   Do ***NOT*** install this into production use.
   Data corruption and crashes are possible.

   It is most seriously suggested that you do not continue any further
   unless you want to help in developing and debugging Perl.

   If you *still* want to build perl, you can answer 'y' now,
   or pass -Dusedevel to Configure.

EOH
 rp='Do you really want to continue?'
 dflt='n'
 . ./myread
 case
 "$ans" in
 [yY]) echo >&4 "Okay, continuing."
       usedevel="$define" ;;
```

```
 *) echo >&4 "Okay, bye."
    exit 1
    ;;
 esac
 ;;
   esac
   usedevel="$undef"
   ;;
esac
case "$usedevel" in
$define|true|[yY]*)
 case "$versiononly" in
 ") versiononly="$define" ;;
 esac
 case "$installusrbinperl" in
 ") installusrbinperl="$undef" ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/Devel.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:usequadmath: Setvar cat uselongdouble
?MAKE: -pick add $@ %<
?S:usequadmath:
?S: This variable conditionally defines the USE_QUADMATH symbol,
?S: and indicates that the quadmath library __float128 long doubles
?S: should be used when available.
?S:.
?C:USE_QUADMATH:
?C: This symbol, if defined, indicates that the quadmath library should
?C: be used when available.
?C:.
?H:?%<:#ifndef USE_QUADMATH
?H:?%<:#$usequadmath USE_QUADMATH  /**/
?H:?%<:#endif
?H:.
: Check if quadmath is requested
case "$usequadmath" in
"$define"|true|[yY]*) usequadmath="$define" ;;
*)                    usequadmath="$undef"  ;;
esac
```

```
: Fail if both uselongdouble and usequadmath are requested
case "$usequadmath:$uselongdouble" in
define:define)
 $cat <<EOM >&4

*** You requested the use of
 the quadmath library and use
*** of long doubles.
***
*** Please select one or the other.
EOM
 exit 1
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/usequadmath.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2014 Jarkko Hietaniemi & H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_copysign: Inlibc
?MAKE: -pick add $@ %<
?S:d_copysign:
?S: This variable conditionally defines the HAS_COPYSIGN symbol, which
?S: indicates to the C program that the copysign() routine is available.
?S:.
?C:HAS_COPYSIGN:
?C: This symbol, if defined, indicates that the copysign routine is
?C: available to do the copysign function.
?C:.
?H:#$d_copysign HAS_COPYSIGN  /**/
?H:.
?LINT:set d_copysign
: see if copysign exists
set copysign d_copysign
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_copysign.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getgrnam_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getgrnam_r getgrnam_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_grp extern_C
?MAKE: -pick add $@ %<
?S:d_getgrnam_r:
?S: This variable conditionally defines the HAS_GETGRNAM_R symbol,
?S: which indicates to the C program that the getgrnam_r()
?S: routine is available.
?S:.
?S:getgrnam_r_proto:
?S: This variable encodes the prototype of getgrnam_r.
?S: It is zero if d_getgrnam_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getgrnam_r
?S: is defined.
?S:.
?C:HAS_GETGRNAM_R:
?C: This symbol, if defined, indicates that the getgrnam_r routine
?C: is available to
 getgrnam re-entrantly.
?C:.
?C:GETGRNAM_R_PROTO:
?C: This symbol encodes the prototype of getgrnam_r.
?C: It is zero if d_getgrnam_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getgrnam_r
?C: is defined.
?C:.
?H:#$d_getgrnam_r HAS_GETGRNAM_R /**/
?H:#define GETGRNAM_R_PROTO $getgrnam_r_proto /**/
?H:.
?T:try hdrs d_getgrnam_r_proto
: see if getgrnam_r exists
set getgrnam_r d_getgrnam_r
eval $inlibc
case "$d_getgrnam_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_grp grp.h"
 case "$d_getgrnam_r_proto:$usethreads" in
 ":define") d_getgrnam_r_proto=define
  set d_getgrnam_r_proto getgrnam_r $hdrs
```

```
 eval $hasproto ;;
*) ;;
esac
case "$d_getgrnam_r_proto" in
define)
case "$getgrnam_r_proto" in
"|0) try='int getgrnam_r(const char*, struct group*, char*, size_t, struct group**);'
./protochk "$extern_C $try" $hdrs && getgrnam_r_proto=I_CSBWR ;;
esac
case "$getgrnam_r_proto" in
"|0) try='int getgrnam_r(const char*, struct group*, char*,
int, struct group**);'
./protochk "$extern_C $try" $hdrs && getgrnam_r_proto=I_CSBIR ;;
esac
case "$getgrnam_r_proto" in
"|0) try='struct group* getgrnam_r(const char*, char*, int);'
./protochk "$extern_C $try" $hdrs && getgrnam_r_proto=S_CBI ;;
esac
case "$getgrnam_r_proto" in
"|0) try='int getgrnam_r(const char*, struct group*, char*, int);'
./protochk "$extern_C $try" $hdrs && getgrnam_r_proto=I_CSBI ;;
esac
case "$getgrnam_r_proto" in
"|0) try='struct group* getgrnam_r(const char*, struct group*, char*, int);'
./protochk "$extern_C $try" $hdrs && getgrnam_r_proto=S_CSBI ;;
esac
case "$getgrnam_r_proto" in
"|0) d_getgrnam_r=undef
 getgrnam_r_proto=0
 echo "Disabling getgrnam_r, cannot determine prototype." >&4 ;;
* ) case "$getgrnam_r_proto" in
 REENTRANT_PROTO*) ;;
 *) getgrnam_r_proto="REENTRANT_PROTO_$getgrnam_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "getgrnam_r has no prototype, not using it."
>&4 ;;
 esac
 d_getgrnam_r=undef
 getgrnam_r_proto=0
 ;;
esac
;;
*) getgrnam_r_proto=0
;;
```

```
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getgrnam_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: defeditor.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: defeditor.U,v $
?RCS: Revision 3.0.1.1  1995/01/11  15:30:16  ram
?RCS: patch45: can now use the 'vi' variable since path stripping is deferred
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:defeditor: Getfile Oldconfig Loc vi
?MAKE: -pick add $@ %<
?S:defeditor:
?S: This variable contains the eventual value of the DEFEDITOR symbol,
?S: which contains the name of the default editor.
?S:.
?C:DEFEDITOR:
?C: This
 symbol contains the full pathname of the default editor.
?C:.
?H:#define DEFEDITOR "$defeditor"  /**/
?H:.
: determine default editor
echo " "
case "$defeditor" in
")
 case "$vi" in
 */*) dflt="$vi";;
 *) dflt=/usr/ucb/vi;;
 esac
 ;;
*)  dflt="$defeditor"
 ;;
esac
```

```
fn=f/
rp="What is the default editor on your system?"
. ./getfile
defeditor="$ans"
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/defeditor.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_syspoll.U 15 2006-08-30 18:21:51Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:i_syspoll: Inhdr
?MAKE: -pick add $@ %<
?S:i_syspoll:
?S: This variable conditionally defines the I_SYS_POLL symbol, which
?S: indicates to the C program that it should include <sys/poll.h>.
?S:.
?C:I_SYS_POLL:
?C: This symbol, if defined, indicates that the program may include
?C: <sys/poll.h>.  When I_POLL is also defined, it's probably safest
?C: to only include <poll.h>.
?C:.
?H:#$i_syspoll I_SYS_POLL /**/
?H:.
?LINT:set i_syspoll
: see if there is
 a sys/poll.h file
set sys/poll.h i_syspoll
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_syspoll.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: errnolist.U,v 3.0.1.2 1997/02/28 15:48:01 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
```

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: errnolist.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:48:01  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: likewise for .o replaced by $_o
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:10:54  ram
?RCS: patch16: created
?RCS:
?MAKE:errnolist errnolist_SH errnolist_a errnolist_c errnolist_o: cat \
 Compile +d_sysernlst _a _o
?MAKE: -pick add $@ %<
?S:errnolist:
?S: This variable holds the base name of a file containing the
?S: definition
 of the sys_errnolist array, if the C library
?S: doesn't provide it already.  Otherwise, its value is empty.
?S: The following lines should be included in your Makefile.SH:
?S:
?S:  case "$errnolist" in
?S:  ") ;;
?S:  *)
?S:   $spitshell >>Makefile <<!GROK!THIS!
?S:  $errnolist_c: $errnolist_SH $errnolist_a
?S:   sh ./$errnolist_SH
?S:
?S:  !GROK!THIS!
?S:   ;;
?S:  esac
?S:
?S: You may define the 'errnolist' variable in your Myinit.U if you
?S: wish to override its default value "errnolist".
?S:.
?S:errnolist_SH:
?S: This is the name of a file which will generate errnolistc.
?S:.
?S:errnolist_a:
?S: This is the name of the awk script called by errnolist_SH.
?S:.
?S:errnolist_c:
?S: This is the name of a generated C file which provides the
?S: definition of the sys_errnolist array.
?S:.
```

```
?S:errnolist_o:
?S: This is the name of the object file which provides the
?S: definition of the sys_errnolist array, if the C library
?S: doesn't provide it already.  Otherwise, its value is
 empty.
?S:.
?INIT:errnolist=errnolist
: check for sys_errnolist
@if d_sysernlst || HAS_SYS_ERRNOLIST
case "$d_sysernlst" in
"$define")
   errnolist=''
   errnolist_SH=''
   errnolist_a=''
   errnolist_c=''
   errnolist_o=''
 ;;
*)
 echo " "
 echo "I'll make sure your Makefile provides sys_errnolist in $errnolist.c"
   errnolist_SH=$errnolist.SH
   errnolist_a=$errnolist$_a
   errnolist_c=$errnolist.c
   errnolist_o=$errnolist$_o
 ;;
esac
@else
echo " "
$cat <<EOM
Checking to see if your C library provides us with sys_errnolist[]...
EOM
$cat >errnolist.c <<'EOCP'
extern char *sys_errnolist[];
int main() {
   char *p0 = sys_errnolist[0];
   char *p1 = sys_errnolist[1];

   return (p0 == p1); /* Make sure they're not optimized away */
}
EOCP
set errnolist
if eval $compile; then
   echo "It does."
   errnolist=''
   errnolist_SH=''
   errnolist_a=''
   errnolist_c=''
   errnolist_o=''
```

```
else
 echo "I'll make sure your Makefile provides sys_errnolist in $errnolist.c"
   errnolist_SH=$errnolist.SH
    errnolist_a=$errnolist$_a
   errnolist_c=$errnolist.c
   errnolist_o=$errnolist$_o
fi
@end
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/errnolist.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isnormal: cat Compile Setvar rm_try
?MAKE: -pick add $@ %<
?S:d_isnormal:
?S: This variable conditionally defines the HAS_ISNORMAL symbol, which
?S: indicates to the C program that the isnormal() routine is available.
?S:.
?C:HAS_ISNORMAL:
?C: This symbol, if defined, indicates that the isnormal routine is
?C: available to check whether a double is normal (non-zero normalized).
?C:.
?H:#$d_isnormal HAS_ISNORMAL  /**/
?H:.
?LINT:set d_isnormal
: check for isnormal
echo "Checking to see if you have isnormal..." >&4
$cat >try.c <<EOCP
#include <math.h>
int main() { return isnormal(0.0); }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have isnormal."
else
 val="$undef"
 echo "You do not have isnormal."
fi
$rm_try
set d_isnormal
eval $setvar
```

Found
 in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_isnormal.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_xdrs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_xdrs.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_xdrs: cat Csym Setvar
?MAKE: -pick add $@ %<
?S:d_xdrs:
?S: This symbol conditionally defines HAS_XDRS which indicates to the C
?S: program that XDR serialization routines are available.
?S:.
?C:HAS_XDRS (XDRS):
?C: This symbol if defined indicates to the C program that the XDR
?C: serialization routines are available to transfer data
 accross
?C: various architectures.
?C:.
?H:#$d_xdrs HAS_XDRS /**/
?H:.
?LINT:set d_xdrs
: see if XDR is available
echo " "
if set xdr_int val -f d_xdrs; eval $csym; $val; then
 echo "Ahh! You have XDR routines for network communications." >&4
 val="$define"
else
 $cat >&4 <<EOM
Sigh! You do not have XDR routines -- Network communications may be hazardous.
EOM
 val="$undef"
fi
set d_xdrs
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_xdrs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: byteorder.U,v 3.0.1.2 1997/02/28 15:24:55 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: byteorder.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:24:55  ram
?RCS: patch61: no longer ask the user if the test runs ok
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:02:58  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:28  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:byteorder: cat Myread Oldconfig Loc Compile rm_try run \
 multiarch uvtype uvsize i_stdlib
?MAKE: -pick add $@ %<
?S:byteorder:
?S: This
 variable holds the byte order in a UV. In the following,
?S: larger digits indicate more significance.  The variable byteorder
?S: is either 4321 on a big-endian machine, or 1234 on a little-endian,
?S: or 87654321 on a Cray ... or 3412 with weird order !
?S:.
?C:BYTEORDER:
?C: This symbol holds the hexadecimal constant defined in byteorder,
?C: in a UV, i.e. 0x1234 or 0x4321 or 0x12345678, etc...
?C: If the compiler supports cross-compiling or multiple-architecture
?C: binaries, use compiler-defined macros to
?C: determine the byte order.
?C:.
?H:?%<:#if defined(MULTIARCH)
?H:?%<:#  ifdef __LITTLE_ENDIAN__
?H:?%<:#    if LONGSIZE == 4
?H:?%<:#      define BYTEORDER 0x1234
?H:?%<:#    else
```

```
?H:?%<:#      if LONGSIZE == 8
?H:?%<:#        define BYTEORDER 0x12345678
?H:?%<:#      endif
?H:?%<:#    endif
?H:?%<:#  else
?H:?%<:#    ifdef __BIG_ENDIAN__
?H:?%<:#      if LONGSIZE == 4
?H:?%<:#        define BYTEORDER 0x4321
?H:?%<:#      else
?H:?%<:#        if LONGSIZE
 == 8
?H:?%<:#          define BYTEORDER 0x87654321
?H:?%<:#        endif
?H:?%<:#      endif
?H:?%<:#    endif
?H:?%<:#  endif
?H:?%<:#else
?H:?%<:#define BYTEORDER 0x$byteorder /* large digits for MSB */
?H:?%<:#endif
?H:.
?T:xxx_prompt
?F:!try
: check for ordering of bytes in a UV
echo " "
case "$multiarch" in
*$define*)
 $cat <<EOM
You seem to be doing a multiarchitecture build,
skipping the byteorder check.

EOM
 byteorder='ffff'
 ;;
*)
 case "$byteorder" in
 ")
  $cat <<'EOM'
In the following, larger digits indicate more significance.  A big-endian
machine like a Pyramid or a Motorola 680?0 chip will come out to 4321. A
little-endian machine like a Vax or an Intel 80?86 chip would be 1234. Other
machines may have weird orders like 3412.  A Cray will report 87654321,
an Alpha will report 12345678. If the test program works the default is
probably right.
I'm now running the test program...
EOM
  $cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
```

```
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include
 <sys/types.h>
typedef $uvtype UV;
int main()
{
 int i;
 union {
  UV l;
  char c[$uvsize];
 } u;

 if ($uvsize > 4)
  u.l = (((UV)0x08070605) << 32) | (UV)0x04030201;
 else
  u.l = (UV)0x04030201;
 for (i = 0; i < $uvsize; i++)
  printf("%c", u.c[i]+'0');
 printf("\n");
 exit(0);
}
EOCP
  xxx_prompt=y
  set try
  if eval $compile && $run ./try > /dev/null; then
   dflt=`$run ./try`
   case "$dflt" in
   [1-4][1-4][1-4][1-4]|12345678|87654321)
    echo "(The test program ran ok.)"
    echo "byteorder=$dflt"
    xxx_prompt=n
   ;;
   ????|????????) echo "(The test program ran ok.)" ;;
   *) echo "(The test program didn't run right for some reason.)" ;;
   esac
  else
   dflt='4321'
   cat <<'EOM'
(I can't seem to compile the test program.  Guessing big-endian...)
EOM
  fi
  case "$xxx_prompt" in
  y)
   rp="What is the order of bytes in $uvtype?"
   . ./myread
   byteorder="$ans"
```

```
  ;;
  *) byteorder=$dflt
  ;;
  esac
  ;;
 esac
 $rm_try
 ;;
esac
```

Found in path(s):
*
/opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/byteorder.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: privlib.U,v $
?RCS: Revision 3.0.1.4  1995/09/25  09:17:09  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:44:23  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:31:52  ram
?RCS: patch32: now uses installation prefix
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:12:34  ram
?RCS: patch10: added support for /local/lib (WED)
?RCS: patch10: prompt phrasing made
 more explicit (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:privlib privlibexp installprivlib: afs package cat Getfile \
 Oldconfig Prefixit test
?MAKE: -pick add $@ %<
?Y:TOP
```

```
?S:privlib:
?S: This variable contains the eventual value of the PRIVLIB symbol,
?S: which is the name of the private library for this package.  It may
?S: have a ~ on the front. It is up to the makefile to eventually create
?S: this directory while performing installation (with ~ substitution).
?S:.
?S:privlibexp:
?S: This variable is the ~name expanded version of privlib, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?S:installprivlib:
?S: This variable is really the same as privlibexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?C:PRIVLIB:
?C: This symbol contains the name of the private library for this package.
?C: The library is
 private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.  The program
?C: should be prepared to do ~ expansion.
?C:.
?C:PRIVLIB_EXP:
?C: This symbol contains the ~name expanded version of PRIVLIB, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#define PRIVLIB "$privlib"  /**/
?H:#define PRIVLIB_EXP "$privlibexp"  /**/
?H:.
: determine where private executables go
set dflt privlib lib/$package
eval $prefixit
$cat <<EOM

There are some auxiliary files for $package that need to be put into a
private library directory that is accessible by everyone.

EOM
fn=d~+
rp='Pathname where the private library files will reside?'
. ./getfile
if $test "X$privlibexp" != "X$ansexp"; then
 installprivlib=''
fi
privlib="$ans"
privlibexp="$ansexp"
if $afs; then
 $cat <<EOM
```

```
Since you are running AFS, I need to distinguish the directory in which
private files reside from the directory in which they are installed
 (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installprivlib" in
 ") dflt=`echo $privlibexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installprivlib";;
 esac
 fn=de~
 rp='Where will private files be installed?'
 . ./getfile
 installprivlib="$ans"
else
 installprivlib="$privlibexp"
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/privlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_bcmp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_bcmp.U,v $
?RCS: Revision 3.0.1.2  1993/10/16  13:47:52  ram
?RCS: patch12: added magic support for bcmp()
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:00:44  ram
?RCS: patch10: now only defines HAS_BCMP, no macro remap on memcmp (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_bcmp: Inlibc
?MAKE: -pick add $@ %<
?S:d_bcmp:
?S: This variable conditionally defines the HAS_BCMP symbol
```

```
 if
?S: the bcmp() routine is available to compare strings.
?S:.
?C:HAS_BCMP:
?C: This symbol is defined if the bcmp() routine is available to
?C: compare blocks of memory.
?C:.
?H:#$d_bcmp HAS_BCMP /**/
?H:.
?M:bcmp: HAS_BCMP
?M:#ifndef HAS_BCMP
?M:#ifndef bcmp
?M:#define bcmp(s,d,l) memcmp((s),(d),(l))
?M:#endif
?M:#endif
?M:.
?LINT:set d_bcmp
: see if bcmp exists
set bcmp d_bcmp
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_bcmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: n.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: n.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:n c: contains
?MAKE: -pick add $@ %<
?S:n:
?S: This variable contains the -n flag if that is what causes the echo
?S: command to suppress newline.  Otherwise it is null.  Correct usage is
?S:     $echo $n "prompt for a question: $c".
?S:.
?S:c:
```

```
?S: This variable contains the \c string if that is what causes the echo
?S: command to suppress newline.
  Otherwise it is null.  Correct usage is
?S:     $echo $n "prompt for a question: $c".
?S:.
: first determine how to suppress newline on echo command
echo " "
echo "Checking echo to see how to suppress newlines..."
(echo "hi there\c" ; echo " ") >.echotmp
if $contains c .echotmp >/dev/null 2>&1 ; then
 echo "...using -n."
 n='-n'
 c=''
else
 cat <<'EOM'
...using \c
EOM
 n=''
 c='\c'
fi
echo $n "The star should be here-->$c"
echo '*'
rm -f .echotmp
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/n.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: siteprefix.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: siteprefix.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:siteprefix siteprefixexp +oldsiteprefix: Getfile Loc Oldconfig cat package prefix
?MAKE: -pick add $@ %<
?S:siteprefix:
?S: This variable holds the full absolute path of the directory below
?S: which the user will install add-on packages.
```

```
?S: See INSTALL for usage and examples.
?S:.
?S:siteprefixexp:
?S: This variable holds the full absolute path of the
 directory below
?S: which the user will install add-on packages.  Derived from siteprefix.
?S:.
?S:oldsiteprefix:
?S: This variable is set non-null if the siteprefix was previously defined
?S: and gets set to a new value. Used internally by Configure only.
?S:.
: Set the siteprefix variables
$cat <<EOM

After $package is installed, you may wish to install various
add-on modules and utilities.  Typically, these add-ons will
be installed under $prefix with the rest
of this package.  However, you may wish to install such add-ons
elsewhere under a different prefix.

If you do not wish to put everything under a single prefix, that's
ok.  You will be prompted for the individual locations; this siteprefix
is only used to suggest the defaults.

The default should be fine for most people.

EOM
fn=d~+
rp='Installation prefix to use for add-on modules and utilities?'
: XXX Here might be another good place for an installstyle setting.
case "$siteprefix" in
") dflt=$prefix ;;
*)  dflt=$siteprefix
 ;;
esac
. ./getfile
: XXX Prefixit unit does not yet support siteprefix and vendorprefix
oldsiteprefix="
case "$siteprefix" in
") ;;
*) case "$ans" in
 "$prefix") ;;
 *) oldsiteprefix="$prefix";;
 esac
 ;;
esac
siteprefix="$ans"
siteprefixexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/siteprefix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_memmem: Hasproto Inlibc Setvar d_gnulibc
?MAKE: -pick add $@ %<
?S:d_memmem:
?S: This variable conditionally defines the HAS_MEMMEM symbol, which
?S: indicates to the C program that the memmem() routine is available
?S: to return a pointer to the start of the first occurrence of a
?S: substring in a memory area (or NULL if not found).
?S:.
?C:HAS_MEMMEM:
?C: This symbol, if defined, indicates that the memmem routine is
?C: available to return a pointer to the start of the first occurrence
?C: of a substring in a memory area (or NULL if not found).
?C: In glibc, memmem is a GNU extension.  The function is visible in
?C: libc, but the prototype is only visible if _GNU_SOURCE is #defined.
?C: Thus we only define this if both the prototype and symbol are found.
?C:.
?H:#$d_memmem
 HAS_MEMMEM  /**/
?H:.
?T:d_memmem_proto xx1 xx2 xx3 xx4
?LINT:set d_memmem
: see if memmem exists
: We need both a prototype in string.h and the symbol in libc.
echo " "
d_memmem_proto="
xx1="#$d_gnulibc HAS_GNULIBC"
xx2='#if defined(HAS_GNULIBC) && !defined(_GNU_SOURCE)'
xx3='#   define _GNU_SOURCE'
xx4='#endif'
set d_memmem_proto memmem literal "$xx1" literal "$xx2" literal "$xx3" literal "$xx4" define string.h
eval $hasproto
case "$d_memmem_proto" in
   define) # see if memmem exists
 set memmem d_memmem
 eval $inlibc
 ;;
   *)  val=$undef
 set d_memmem
 eval $setvar
```

```
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_memmem.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_varhdr.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_varhdr.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:54:42  ram
?RCS: patch61: varargs script now starts with leading "startsh"
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:21:02  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/13  15:26:05  ram
?RCS: patch27: this unit now supersedes old i_stdarg.U and i_varargs.U
?RCS: patch27: modified to avoid spurious Whoa warnings (ADO)
?RCS:
?RCS: Revision 3.0
  1993/08/18  12:08:49  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_stdarg i_varargs i_varhdr: cat +cc +ccflags rm test Setvar \
 Findhdr startsh _o
?MAKE: -pick add $@ %<
?S:i_stdarg:
?S: This variable conditionally defines the I_STDARG symbol, which
?S: indicates to the C program that <stdarg.h> exists and should
?S: be included.
?S:.
?S:i_varargs:
?S: This variable conditionally defines I_VARARGS, which indicates
?S: to the C program that it should include <varargs.h>.
?S:.
?S:i_varhdr:
?S: Contains the name of the header to be included to get va_dcl definition.
?S: Typically one of varargs.h or stdarg.h.
```

```
?S:.
?C:I_STDARG:
?C: This symbol, if defined, indicates that <stdarg.h> exists and should
?C: be included.
?C:.
?C:I_VARARGS:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <varargs.h>.
?C:.
?H:#$i_stdarg I_STDARG  /**/
?H:#$i_varargs I_VARARGS /**/
?H:.
?W:%<:va_dcl
?F:!varargs
?T:valstd
?LINT:set i_stdarg i_varargs
?X:
?X:
 Don't use setvar because the varargs test below might override these.
?X: Actually, the messages here are just informative. We don't wish to set
?X: i_varargs or i_stdarg to their final value before knowing which of the
?X: two we'll include.
?X:
: see if stdarg is available
echo " "
if $test `./findhdr stdarg.h`; then
 echo "<stdarg.h> found." >&4
 valstd="$define"
else
 echo "<stdarg.h> NOT found." >&4
 valstd="$undef"
fi

: see if varargs is available
echo " "
if $test `./findhdr varargs.h`; then
 echo "<varargs.h> found." >&4
else
 echo "<varargs.h> NOT found, but that's ok (I hope)." >&4
fi

?X:
?X: if you have stdarg.h, you need to support prototypes to actually use it;
?X: but if stdarg.h exists and the compiler doesn't support prototypes (for some
?X: bizarre reason), we'll fall back to varargs.h anyway so it's not so bad.
?X:
: set up the varargs testing programs
$cat > varargs.c <<EOP
```

```
#ifdef I_STDARG
#include <stdarg.h>
#endif
#ifdef I_VARARGS
#include <varargs.h>
#endif

#ifdef
 I_STDARG
int f(char *p, ...)
#else
int f(va_alist)
va_dcl
#endif
{
 va_list ap;
#ifndef I_STDARG
 char *p;
#endif
#ifdef I_STDARG
 va_start(ap,p);
#else
 va_start(ap);
 p = va_arg(ap, char *);
#endif
 va_end(ap);
 return 0;
}
EOP
$cat > varargs <<EOP
$startsh
if $cc -c $ccflags -D\$1 varargs.c >/dev/null 2>&1; then
 echo "true"
else
 echo "false"
fi
$rm -f varargs$_o
EOP
chmod +x varargs

: now check which varargs header should be included
echo " "
i_varhdr="
val="
case "$valstd" in
"$define")
 if `./varargs I_STDARG`; then
  val='stdarg.h'
```

```
 elif `./varargs I_VARARGS`; then
  val='varargs.h'
 fi
 ;;
*)
 if `./varargs I_VARARGS`; then
  val='varargs.h'
 fi
 ;;
esac
case "$val" in
")
 echo " "
 echo "*** WHOA THERE!!! ***" >&4
 echo "    Your C compiler \"$cc\" doesn't seem to support stdarg or varargs!" >&4
 case "$knowitall" in
 ")
 echo "    I'm giving up; maybe you can try again with a different compiler?" >&4
  exit 1
  ;;
 esac
echo "I could not find the definition for va_dcl...
 You have problems..." >&4
 val="$undef"; set i_stdarg; eval $setvar
 val="$undef"; set i_varargs; eval $setvar
 ;;
*)
 set i_varhdr
 eval $setvar
 case "$i_varhdr" in
 stdarg.h)
  val="$define"; set i_stdarg; eval $setvar
  val="$undef"; set i_varargs; eval $setvar
  ;;
 varargs.h)
  val="$undef"; set i_stdarg; eval $setvar
  val="$define"; set i_varargs; eval $setvar
  ;;
 esac
 echo "We'll include <$i_varhdr> to get va_dcl definition." >&4;;
esac
$rm -f varargs*
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_varhdr.U
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```
?RCS: $Id: Begin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Begin.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  14:56:35  ram
?RCS: patch61: added Extractall dependency
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:25:08  ram
?RCS: patch49: avoid an empty rmlist: systems might choke on it (WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/31  09:32:20  ram
?RCS: patch44: created
?RCS:
?X:
?X: This file comes after option processing had been done and after all
?X: the default values have been set up. It marks the beginning
 of questions.
?X: It is important that Options be listed *after* Myinit to ensure that the
?X: default initializations performed by Init and Myinit will not clobber
?X: any setting done on the command line via -D or -U.
?X:
?MAKE:Begin: Myinit Options package Extractall
?MAKE: -pick add $@ %<
: Eunice requires " " instead of "", can you believe it
echo " "
: Here we go...
echo "Beginning of configuration questions for $package."

?X: Make sure the rm below is given a non-empty list for some systems.
?X: This is run only when within the UU directory, hence we can safely
?X: attempt to rm a non-existent 'X' file...
trap 'echo " "; test -d ../UU && rm -rf X $rmlist; exit 1' 1 2 3 15
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Begin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endservent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_endservent_r endservent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_endservent_r:
?S: This variable conditionally defines the HAS_ENDSERVENT_R symbol,
?S: which indicates to the C program that the endservent_r()
?S: routine is available.
?S:.
?S:endservent_r_proto:
?S: This variable encodes the prototype of endservent_r.
?S: It is zero if d_endservent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endservent_r
?S: is defined.
?S:.
?C:HAS_ENDSERVENT_R:
?C: This symbol, if defined, indicates that the endservent_r routine
?C: is
 available to endservent re-entrantly.
?C:.
?C:ENDSERVENT_R_PROTO:
?C: This symbol encodes the prototype of endservent_r.
?C: It is zero if d_endservent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endservent_r
?C: is defined.
?C:.
?H:#$d_endservent_r HAS_ENDSERVENT_R /**/
?H:#define ENDSERVENT_R_PROTO $endservent_r_proto /**/
?H:.
?T:try hdrs d_endservent_r_proto
: see if endservent_r exists
set endservent_r d_endservent_r
eval $inlibc
case "$d_endservent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_endservent_r_proto:$usethreads" in
 ":define") d_endservent_r_proto=define
  set d_endservent_r_proto endservent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_endservent_r_proto" in
 define)
```

```
 case "$endservent_r_proto" in
 "|0) try='int endservent_r(struct servent_data*);'
 ./protochk "$extern_C $try" $hdrs && endservent_r_proto=I_D ;;
 esac
 case "$endservent_r_proto" in
 "|0) try='void endservent_r(struct
 servent_data*);'
 ./protochk "$extern_C $try" $hdrs && endservent_r_proto=V_D ;;
 esac
 case "$endservent_r_proto" in
 "|0) d_endservent_r=undef
  endservent_r_proto=0
  echo "Disabling endservent_r, cannot determine prototype." >&4 ;;
 * ) case "$endservent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) endservent_r_proto="REENTRANT_PROTO_$endservent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "endservent_r has no prototype, not using it." >&4 ;;
  esac
  d_endservent_r=undef
  endservent_r_proto=0
  ;;
 esac
 ;;
*) endservent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_endservent_r.U
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```
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?RCS:
?RCS: $Log: i_malloc.U,v $
```

```
?RCS: Revision 3.0  1993/08/18  12:08:21  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_malloc: Inhdr
?MAKE: -pick add $@ %<
?S:i_malloc:
?S: This variable conditionally defines the I_MALLOC symbol, and indicates
?S: whether a C program should include <malloc.h>.
?S:.
?C:I_MALLOC:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <malloc.h>.
?C:.
?H:#$i_malloc I_MALLOC  /**/
?H:.
?LINT:set i_malloc
: see if this is a malloc.h system
set
 malloc.h i_malloc
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_malloc.U
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```
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?RCS:
?RCS: $Log: stdchar.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:stdchar: contains Findhdr cppstdin cppminus rm
?MAKE: -pick add $@ %<
?S:stdchar:
?S: This variable conditionally defines STDCHAR to be the type of char
?S: used in stdio.h.  It has the values "unsigned char" or "char".
?S:.
?C:STDCHAR:
?C: This symbol is defined to be the type of char used in stdio.h.
```

```
?C: It has the values "unsigned char" or "char".
?C:.
?H:#define STDCHAR $stdchar /**/
?H:.
?F:!stdioh
:
 see what type of char stdio uses.
echo " "
?X: untangle the #include nest
echo '#include <stdio.h>' | $cppstdin $cppminus > stdioh
if $contains 'unsigned.*char.*_ptr;' stdioh >/dev/null 2>&1 ; then
 echo "Your stdio uses unsigned chars." >&4
 stdchar="unsigned char"
else
 echo "Your stdio uses signed chars." >&4
 stdchar="char"
fi
$rm -f stdioh
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/stdchar.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libpth.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  16:08:49  ram
?RCS: patch61: new loclibpth variable
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:31:30  ram
?RCS: patch45: call ./mips instead of just mips (WED)
?RCS:
?RCS: Revision 3.0.1.4  1994/08/29  16:29:15  ram
?RCS: patch32: added /lib/pa1.1 for HP-UX specially tuned PA-RISC libs (ADO)
?RCS: patch32: fixed information message, making it clearer (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:03:54  ram
?RCS: patch30: added /usr/shlib to
```

```
 glibpth for shared-only libraries
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:26:57  ram
?RCS: patch27: fixed a typo (libpth -> glibpth)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:07:53  ram
?RCS: patch23: now asks for library directories to be searched (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit initializes the path for C library lookup.
?X:
?MAKE:libpth glibpth xlibpth plibpth loclibpth: \
 usrinc incpath test cat Myread Oldconfig
?MAKE: -pick add $@ %<
?S:libpth:
?S: This variable holds the general path (space-separated) used to find
?S: libraries. It is intended to be used by other units.
?S:.
?S:glibpth:
?S: This variable holds the general path (space-separated) used to
?S: find libraries.  It may contain directories that do not exist on
?S: this platform, libpth is the cleaned-up version.
?S:.
?S:xlibpth:
?S: This variable holds extra path (space-separated) used to find
?S: libraries on this platform,
 for example CPU-specific libraries
?S: (on multi-CPU platforms) may be listed here.
?S:.
?S:loclibpth:
?S: This variable holds the paths (space-separated) used to find local
?S: libraries.  It is prepended to libpth, and is intended to be easily
?S: set from the command line.
?S:.
?S:plibpth:
?S: Holds the private path used by Configure to find out the libraries.
?S: Its value is prepend to libpth. This variable takes care of special
?S: machines, like the mips.  Usually, it should be empty.
?S:.
?T: xxx dlist
?LINT:use usrinc
?INIT:: change the next line if compiling for Xenix/286 on Xenix/386
?INIT:xlibpth='/usr/lib/386 /lib/386'
?INIT:: Possible local library directories to search.
?INIT:loclibpth="/usr/local/lib /opt/local/lib /usr/gnu/lib"
```

```
?INIT:loclibpth="$loclibpth /opt/gnu/lib /usr/GNU/lib /opt/GNU/lib"
?INIT:
?INIT:: general looking path for locating libraries
?INIT:glibpth="/lib /usr/lib $xlibpth"
?INIT:glibpth="$glibpth /usr/ccs/lib /usr/ucblib /usr/local/lib"
?X: /shlib
 is for Digital Unix 4.0
?X: /usr/shlib is for OSF/1 systems.
?INIT:test -f /usr/shlib/libc.so && glibpth="/usr/shlib $glibpth"
?INIT:test -f /shlib/libc.so     && glibpth="/shlib $glibpth"
?INIT:
?INIT:: Private path used by Configure to find libraries.  Its value
?INIT:: is prepended to libpth. This variable takes care of special
?INIT:: machines, like the mips.  Usually, it should be empty.
?INIT:plibpth="
?INIT:
: Set private lib path
case "$plibpth" in
") if ./mips; then
?X: on mips, we DO NOT want /lib, and we want $incpath/usr/lib
  plibpth="$incpath/usr/lib /usr/local/lib /usr/ccs/lib"
 fi;;
esac
case "$libpth" in
' ') dlist=";;
") dlist="$loclibpth $plibpth $glibpth";;
*) dlist="$libpth";;
esac

: Now check and see which directories actually exist, avoiding duplicates
libpth="
for xxx in $dlist
do
   if $test -d $xxx; then
  case " $libpth " in
  *" $xxx "*) ;;
  *) libpth="$libpth $xxx";;
  esac
   fi
done
$cat <<'EOM'

Some systems have incompatible or broken versions
 of libraries.  Among
the directories listed in the question below, please remove any you
know not to be holding relevant libraries, and add any that are needed.
Say "none" for none.
```

```
EOM
case "$libpth" in
") dflt='none';;
*)
?X: strip leading space
 set X $libpth
 shift
 dflt=${1+"$@"}
 ;;
esac
rp="Directories to use for library searches?"
. ./myread
case "$ans" in
none) libpth=' ';;
*) libpth="$ans";;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/libpth.U
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```
?RCS: $Id: mboxchar.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: mboxchar.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:13:12  ram
?RCS: patch56: ensure ctrl-A characters are visible in prompt (WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:11:22  ram
?RCS: patch23: added support for MMDF mailboxes (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:mboxchar: cat package shsharp Myread Oldconfig
?MAKE: -pick add $@ %<
?S:mboxchar:
?S: This variable
 contains the eventual value of the MBOXCHAR symbol,
?S: which is how a C program can identify a file as a mailbox.
```

```
?S:.
?C:MBOXCHAR:
?C: This symbol contains a character which will match the beginning
?C: of a mailbox file.
?C:.
?H:#define MBOXCHAR '$mboxchar'  /**/
?H:.
?T:CTRLA
?INIT:CTRLA=`echo a | tr a '\001'`
: determine how to determine when a file is a mailbox
case "$mboxchar" in
") dflt=F;;
?X: The following ^A is two-chars to ensure it will print out -- WED
"$CTRLA") dflt='^A';;
*)  dflt="$mboxchar";;
esac
$cat <<EOM

In saving articles, $package wants to differentiate between saving to
mailbox format files and normal files.  It does this by examining the
first character of the file in question.  On most systems the first line
starts with "From ...", so the first character is an F.  Other systems
use magic cookies like control codes between articles, so one of those
would be first.  For example, MMDF messages are separated with lines of
four control-A's (you may specify one
 as ^A, i.e. caret A).

EOM
rp="What's the first character of a mailbox file?"
. ./myread
mboxchar="$ans"
case "$mboxchar" in
'F') ;;
"$CTRLA") ;;
'^A'|'^a') mboxchar="$CTRLA";;
*)  cat <<'EOM'

You will need to edit the shell script mbox.saver to properly append an
article to a mailbox.  The arguments to the script are documented in
EOM
 case "$shsharp" in
 false) echo "comments in mbox.saver.std.";;
 true) echo "comments in the shell script itself.";;
 esac
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/dist/U/mboxchar.U
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```
?RCS: $Id$
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fpclassl: Inlibc
?MAKE: -pick add $@ %<
?S:d_fpclassl:
?S: This variable conditionally defines the HAS_FPCLASSL symbol, which
?S: indicates to the C program that the fpclassl() routine is available.
?S:.
?C:HAS_FPCLASSL:
?C: This symbol, if defined, indicates that the fpclassl routine is
?C: available to classify long doubles.  Available for example in IRIX.
?C: The returned values are defined in <ieeefp.h> and are:
?C:
?C: FP_SNAN  signaling NaN
?C: FP_QNAN  quiet NaN
?C: FP_NINF  negative infinity
?C: FP_PINF  positive infinity
?C: FP_NDENORM negative denormalized non-zero
?C: FP_PDENORM positive denormalized non-zero
?C: FP_NZERO negative zero
?C: FP_PZERO positive zero
?C: FP_NNORM negative
 normalized non-zero
?C: FP_PNORM positive normalized non-zero
?C:.
?H:#$d_fpclassl HAS_FPCLASSL  /**/
?H:.
?LINT:set d_fpclassl
: see if fpclassl exists
set fpclassl d_fpclassl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fpclassl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
```

```
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_qgcvt: Inlibc
?MAKE: -pick add $@ %<
?S:d_qgcvt:
?S: This variable conditionally defines the HAS_QGCVT symbol, which
?S: indicates to the C program that the qgcvt() routine is available.
?S:.
?C:HAS_QGCVT:
?C: This symbol, if defined, indicates that the qgcvt routine is
?C: available to convert long doubles ("quad doubles") to strings.
?C: This is a low-level routine hopefully faster than sprintf.
?C:.
?H:#$d_qgcvt HAS_QGCVT  /**/
?H:.
?LINT:set d_qgcvt
: see if qgcvt exists
set qgcvt d_qgcvt
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_qgcvt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_memcmp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memcmp.U,v $
?RCS: Revision 3.0.1.1  1993/09/13  16:02:35  ram
?RCS: patch10: removed text recommending bcmp over memcmp (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:33  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_memcmp: Inlibc
?MAKE: -pick add $@ %<
?S:d_memcmp:
?S: This variable conditionally defines the HAS_MEMCMP symbol, which
```

```
?S: indicates to the C program that the memcmp() routine is available
?S: to compare blocks of
 memory.
?S:.
?C:HAS_MEMCMP (MEMCMP):
?C: This symbol, if defined, indicates that the memcmp routine is available
?C: to compare blocks of memory.
?C:.
?H:#$d_memcmp HAS_MEMCMP /**/
?H:.
?LINT:set d_memcmp
: see if memcmp exists
set memcmp d_memcmp
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_memcmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: lns.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  07:05:52  ram
?RCS: patch30: created by ADO
?RCS:
?X:
?X: This unit checks whether symbolic links are really supported.
?X: We can't rely on d_symlink because that may be listed in the
?X: C library but unimplemented.
?X:
?MAKE:lns: ln rm touch test
?MAKE: -pick add $@ %<
?S:lns:
?S: This variable holds the name of the command to make
?S: symbolic links (if they are supported).
  It can be used
?S: in the Makefile. It is either 'ln -s' or 'ln'
```

```
?S:.
: determine whether symbolic links are supported
echo " "
$rm -f blurfl sym
$touch blurfl
if $ln -s blurfl sym > /dev/null 2>&1 && $test -f sym; then
 echo "Symbolic links are supported." >&4
 lns="$ln -s"
else
 echo "Symbolic links are NOT supported." >&4
 lns="$ln"
fi
$rm -f blurfl sym
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/lns.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: bitpbyte.U,v 3.0.1.1 1994/10/29 16:02:54 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: bitpbyte.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:02:54  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:bitpbyte: cat rm Myread Compile run
?MAKE: -pick add $@ %<
?S:bitpbyte:
?S: This variable contains the value of the BITS_PER_BYTE symbol, which
?S: indicates to the C program how many bits there are in a byte.
?S:.
?C:BITS_PER_BYTE:
?C: This
 symbol contains the number of bits in a byte, so that the C
?C: preprocessor can make decisions based on it.
?C:.
?H:#define BITS_PER_BYTE $bitpbyte  /**/
```

```
?H:.
?F:!try
: check for length of byte
echo " "
case "$bitpbyte" in
")
 echo "Checking to see how many bits there are in a byte..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
?X: Standard C requires a macro CHAR_BIT in <limits.h>
#ifdef __STDC__
#include <limits.h>
#ifndef CHAR_BIT
#define CHAR_BIT 8
#endif
#ifndef BITSPERBYTE
#define BITSPERBYTE CHAR_BIT
#endif
#else
?X: On non standard C, try with <values.h>
#include <values.h>
#ifndef BITSPERBYTE
#define BITSPERBYTE 8
#endif
#endif
int main()
{
 printf("%d\n", BITSPERBYTE);
}
EOCP
 set try
 if eval $compile_ok; then
  dflt=`$run ./try`
 else
  dflt='8'
  echo "(I can't seem to compile the test program.  Guessing...)"
 fi
 ;;
*)
 dflt="$bitpbyte"
 ;;
esac
rp="What is the length of a byte (in bits)?"
. ./myread
bitpbyte="$ans"
$rm -f try.c try

Found in path(s):
```

*
/opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/bitpbyte.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fcntl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_fcntl.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_fcntl: Inlibc
?MAKE: -pick add $@ %<
?S:d_fcntl:
?S: This variable conditionally defines the HAS_FCNTL symbol, and indicates
?S: whether the fcntl() function exists
?S:.
?C:HAS_FCNTL:
?C: This symbol, if defined, indicates to the C program that
?C: the fcntl() function exists.
?C:.
?H:#$d_fcntl HAS_FCNTL  /**/
?H:.
?LINT:set d_fcntl
:
 see if this is an fcntl system
set fcntl d_fcntl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_fcntl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: cppstdin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cppstdin.U,v $
?RCS: Revision 3.0.1.4  1994/10/29  16:08:34  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.3  1994/01/24  14:05:38  ram
?RCS: patch16: comment for CPPLAST was missing
?RCS:
?RCS: Revision 3.0.1.2  1993/12/15  08:18:58  ram
?RCS: patch15: new variables cpprun and cpplast, guaranteed wrapper-free
?RCS: patch15: cppstdin now tries to use cc, even at the cost of a wrapper
?RCS:
?RCS: Revision 3.0.1.1
  1993/08/25  14:00:53  ram
?RCS: patch6: remove wrapper when not actually used
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:38  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:cppstdin cppminus cpprun cpplast: contains test \
 Myread Oldconfig Loc cpp +cc rm hint osname gccversion
?MAKE: -pick add $@ %<
?S:cppstdin:
?S: This variable contains the command which will invoke the C
?S: preprocessor on standard input and put the output to stdout.
?S: It is primarily used by other Configure units that ask about
?S: preprocessor symbols.
?S:.
?S:cppminus:
?S: This variable contains the second part of the string which will invoke
?S: the C preprocessor on the standard input and produce to standard
?S: output.  This variable will have the value "-" if cppstdin needs
?S: a minus to specify standard input, otherwise the value is "".
?S:.
?S:cpprun:
?S: This variable contains the command which will invoke a C preprocessor
?S: on standard input and put the output to stdout. It is guaranteed
 not
?S: to be a wrapper and may be a null string if no preprocessor can be
?S: made directly available. This preprocessor might be different from the
?S: one used by the C compiler. Don't forget to append cpplast after the
?S: preprocessor options.
?S:.
?S:cpplast:
?S: This variable has the same functionality as cppminus, only it applies
```

```
?S: to cpprun and not cppstdin.
?S:.
?C:CPPSTDIN:
?C: This symbol contains the first part of the string which will invoke
?C: the C preprocessor on the standard input and produce to standard
?C: output.  Typical value of "cc -E" or "/lib/cpp", but it can also
?C: call a wrapper. See CPPRUN.
?C:.
?C:CPPMINUS:
?C: This symbol contains the second part of the string which will invoke
?C: the C preprocessor on the standard input and produce to standard
?C: output.  This symbol will have the value "-" if CPPSTDIN needs a minus
?C: to specify standard input, otherwise the value is "".
?C:.
?C:CPPRUN:
?C: This symbol contains the string which will invoke
 a C preprocessor on
?C: the standard input and produce to standard output. It needs to end
?C: with CPPLAST, after all other preprocessor flags have been specified.
?C: The main difference with CPPSTDIN is that this program will never be a
?C: pointer to a shell wrapper, i.e. it will be empty if no preprocessor is
?C: available directly to the user. Note that it may well be different from
?C: the preprocessor used to compile the C program.
?C:.
?C:CPPLAST:
?C: This symbol is intended to be used along with CPPRUN in the same manner
?C: symbol CPPMINUS is used with CPPSTDIN. It contains either "-" or "".
?C:.
?H:#define CPPSTDIN "$cppstdin"
?H:#define CPPMINUS "$cppminus"
?H:#define CPPRUN "$cpprun"
?H:#define CPPLAST "$cpplast"
?H:.
?F:cppstdin !testcpp.out !testcpp.c
?T:wrapper x_cpp x_minus ok
?LINT:extern cppflags
: see how we invoke the C preprocessor
echo " "
echo "Now, how can we feed standard input to your C preprocessor..." >&4
cat <<'EOT' >testcpp.c
#define ABC abc
#define
 XYZ xyz
ABC.XYZ
EOT
cd ..
if test ! -f cppstdin; then
 if test "X$osname" = "Xaix" -a "X$gccversion" = X; then
```

```
  # AIX cc -E doesn't show the absolute headerfile
  # locations but we'll cheat by using the -M flag.
  echo 'cat >.$$.c; rm -f .$$.u; "'$cc'" ${1+"$@"} -M -c .$$.c 2>/dev/null; test -s .$$.u && awk """$2 ~ /\.h$/ { print
"# 0 \""$2"\"" }""" .$$.u; rm -f .$$.o .$$.u; "'$cc'" -E ${1+"$@"} .$$.c; rm .$$.c' > cppstdin
 else
  echo 'cat >.$$.c; "'$cc $cppflags'" -E ${1+"$@"} .$$.c; rm .$$.c' >cppstdin
 fi
else
 echo "Keeping your $hint cppstdin wrapper."
fi
chmod 755 cppstdin
wrapper=`pwd`/cppstdin
ok='false'
cd UU

?X:
?X: We'll run the cpp tests again if we don't have any valid C preprocessor
?X: yet or don't know how to proceed without a wrapper (in which case cpprun
?X: is empty and that's really annoying...)
?X:
if $test "X$cppstdin" != "X" && \
 $cppstdin $cppminus <testcpp.c >testcpp.out 2>&1 && \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1
then
 echo "You used
 to use $cppstdin $cppminus so we'll use that again."
 case "$cpprun" in
 ") echo "But let's see if we can live without a wrapper..." ;;
 *)
  if $cpprun $cpplast <testcpp.c >testcpp.out 2>&1 && \
   $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1
  then
   echo "(And we'll use $cpprun $cpplast to preprocess directly.)"
   ok='true'
  else
   echo "(However, $cpprun $cpplast does not work, let's see...)"
  fi
  ;;
 esac
else
 case "$cppstdin" in
 ") ;;
 *)
  echo "Good old $cppstdin $cppminus does not seem to be of any help..."
  ;;
 esac
fi
```

```
if $ok; then
 : nothing
elif echo 'Maybe """$cc"' -E" will work...'; \
 $cc -E <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Yup, it does."
 x_cpp="$cc $cppflags -E"
 x_minus="";
elif echo 'Nope...maybe """$cc"' -E -" will work...'; \
 $cc -E - <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Yup, it does."
 x_cpp="$cc $cppflags -E"
 x_minus='-';
elif
 echo 'Nope...maybe """$cc"' -P" will work...'; \
 $cc -P <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Yipee, that works!"
 x_cpp="$cc $cppflags -P"
 x_minus="";
elif echo 'Nope...maybe """$cc"' -P -" will work...'; \
 $cc -P - <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "At long last!"
 x_cpp="$cc $cppflags -P"
 x_minus='-';
elif echo 'No such luck, maybe "'$cpp"' will work...'; \
 $cpp <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "It works!"
 x_cpp="$cpp $cppflags"
 x_minus="";
elif echo 'Nixed again...maybe "'$cpp' -" will work...'; \
 $cpp - <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Hooray, it works!  I was beginning to wonder."
 x_cpp="$cpp $cppflags"
 x_minus='-';
elif echo 'Uh-uh.  Time to get fancy.  Trying a wrapper...'; \
 $wrapper <testcpp.c >testcpp.out 2>&1; \
 $contains
 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 x_cpp="$wrapper"
 x_minus="
 echo "Eureka!"
else
 dflt="
```

```
 rp="No dice.  I can't find a C preprocessor.  Name one:"
 . ./myread
 x_cpp="$ans"
 x_minus=''
 $x_cpp <testcpp.c >testcpp.out 2>&1
 if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
  echo "OK, that will do." >&4
 else
echo "Sorry, I can't get that to work.  Go find one and rerun Configure." >&4
  exit 1
 fi
fi

case "$ok" in
false)
 cppstdin="$x_cpp"
 cppminus="$x_minus"
 cpprun="$x_cpp"
 cpplast="$x_minus"
?X:
?X: If /lib/cpp is used, try using a wrapper to increase our chances to have
?X: the C compiler and our $cppstdin agree on the same symbols... However,
?X: since cpprun is guaranteed not to be a wrapper, we must clear it if the
?X: only preprocessor we found was a wrapper, with all our luck...
?X:
 set X $x_cpp
 shift
 case "$1" in
 "$cpp")
  echo "Perhaps can we force $cc -E using a wrapper..."
  if $wrapper <testcpp.c >testcpp.out 2>&1; \
   $contains 'abc.*xyz'
 testcpp.out >/dev/null 2>&1
  then
   echo "Yup, we can."
   cppstdin="$wrapper"
   cppminus='';
  else
   echo "Nope, we'll have to live without it..."
  fi
  ;;
 esac
 case "$cpprun" in
 "$wrapper")
  cpprun=''
  cpplast=''
  ;;
 esac
```

```
 ;;
esac

case "$cppstdin" in
"$wrapper"|'cppstdin') ;;
*) $rm -f $wrapper;;
esac
$rm -f testcpp.c testcpp.out
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/cppstdin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libperl.U,v $
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:libperl useshrplib shrpenv ldlibpthname: \
 Myread Oldconfig archlibexp awk cat libc \
 _a osname osvers so patchlevel subversion usedl ld \
 ccdlflags installarchlib userelocatableinc
?MAKE: -pick wipe $@ %<
?S:libperl:
?S: The perl executable is obtained by linking perlmain.c with
?S: libperl, any static extensions (usually just DynaLoader),
?S: and any other libraries needed on this system.  libperl
?S: is usually libperl.a, but can also be libperl.so.xxx if
?S: the user wishes to build a perl executable with a shared
?S: library.
?S:.
?S:useshrplib:
?S: This variable is set to 'true' if the user wishes
?S: to build a shared libperl, and 'false' otherwise.
?S:.
?S:shrpenv:
?S: If
 the user builds a shared libperl.so, then we need to tell the
?S: 'perl' executable where it will be able to find the installed libperl.so.
?S: One way to do this on some systems is to set the environment variable
?S: LD_RUN_PATH to the directory that will be the final location of the
?S: shared libperl.so.  The makefile can use this with something like
?S:  $shrpenv $(CC) -o perl perlmain.o $libperl $libs
?S: Typical values are
?S:  shrpenv="env LD_RUN_PATH=$archlibexp/CORE"
```

```
?S: or
?S:  shrpenv="
?S: See the main perl Makefile.SH for actual working usage.
?S:
?S: Alternatively, we might be able to use a command line option such
?S: as -R $archlibexp/CORE (Solaris) or -Wl,-rpath
?S: $archlibexp/CORE (Linux).
?S:.
?S:ldlibpthname:
?S: This variable holds the name of the shared library
?S: search path, often LD_LIBRARY_PATH.  To get an empty
?S: string, the hints file must set this to 'none'.
?S:.
?T:shrpdir majonly majmin also xxx tmp_shrpenv
?X: metalint gets confused and thinks we're
 actually setting LDOPTS
?X: and LD_RUN_PATH.
?LINT:extern LDOPTS
?LINT:change LDOPTS
?LINT:extern LD_RUN_PATH
?LINT:change LD_RUN_PATH
?LINT:change ccdlflags
?LINT:extern maintloc maintname
?Y:top
: Do we want a shared libperl?
also=''
case "$usedl" in
$undef)
 # No dynamic loading being used, so don't bother even to prompt.
 useshrplib='false'
 ;;
*) case "$useshrplib" in
 '') case "$osname" in
  svr4*|nonstopux|dgux|dynixptx|esix|powerux|haiku|cygwin*)
   dflt=y
   also='Building a shared libperl is required for dynamic loading to work on your system.'
   ;;
  *) dflt=n
   ;;
  esac
  ;;
 $define|true|[Yy]*)
  dflt=y
  ;;
 *) dflt=n
  ;;
 esac
 $cat << EOM
```

```
The perl executable is normally obtained by linking perlmain.c with
libperl${_a}, any static extensions (usually just DynaLoader), and
any other libraries needed on this system (such as -lm, etc.).  Since
your system supports dynamic loading, it is probably possible to build
a shared libperl.$so.  If you will have more than one
 executable linked
to libperl.$so, this will significantly reduce the size of each
executable, but it may have a noticeable effect on performance.  The
default is probably sensible for your system.
$also

EOM
 rp="Build a shared libperl.$so (y/n)"
 . ./myread
 case "$ans" in
 true|$define|[Yy]*)
  useshrplib='true'  ;;
 *) useshrplib='false' ;;
 esac
 ;;
esac

case "$useshrplib" in
true)
 case "$userelocatableinc" in
 true|define)
  echo "Cannot build with both -Duserelocatableinc and -Duseshrplib" >&4
  echo "See INSTALL for an explanation why that won't work." >&4
  exit 4
  ;;
 esac
 case "$libperl" in
 ")
  # Figure out a good name for libperl.so.  Since it gets stored in
  # a version-specific architecture-dependent library, the version
  # number isn't really that important, except for making cc/ld happy.
  #
  # A name such as libperl.so.10.1
  majmin="libperl.$so.$patchlevel.$subversion"
  # A name such as libperl.so.100
  majonly=`echo $patchlevel $subversion |
   $awk '{printf
 "%d%02d", $1, $2}'`
  majonly=libperl.$so.$majonly
  # I'd prefer to keep the os-specific stuff here to a minimum, and
  # rely on figuring it out from the naming of libc.
  case "${osname}${osvers}" in
```

```
  *linux*|gnu*)  # ld won't link with a bare -lperl otherwise.
   dflt=libperl.$so
   ;;
  cygwin*) # ld links now against the dll directly
   majmin="cygperl5_${patchlevel}_${subversion}.${so}"
   majonly=`echo $patchlevel $subversion |
    $awk '{printf "%03d%03d", $1, $2}'`
   majonly=cygperl5.$majonly.$so
   dflt=$majmin
   ;;
  *) # Try to guess based on whether libc has major.minor.
   case "$libc" in
   *libc.$so.[0-9]*.[0-9]*) dflt=$majmin ;;
   *libc.$so.[0-9]*) dflt=$majonly ;;
   *) dflt=libperl.$so ;;
   esac
   ;;
  esac
  ;;
 *) dflt=$libperl
  ;;
 esac
 cat << EOM

I need to select a good name for the shared libperl.  If your system uses
library names with major and minor numbers, then you might want something
like $majmin.  Alternatively, if your system uses a single
 version
number for shared libraries, then you might want to use $majonly.
Or, your system might be quite happy with a simple libperl.$so.

Since the shared libperl will get installed into a version-specific
architecture-dependent directory, the version number of the shared perl
library probably isn't important, so the default should be o.k.

EOM
 rp='What name do you want to give to the shared libperl?'
 . ./myread
 libperl=$ans
 echo "Ok, I'll use $libperl"
 ;;
*)
 libperl="libperl${_a}"
 ;;
esac

# Detect old use of shrpdir via undocumented Configure -Dshrpdir
case "$shrpdir" in
```

```
") ;;
*) $cat >&4 <<EOM
WARNING:  Use of the shrpdir variable for the installation location of
the shared $libperl is not supported.  It was never documented and
will not work in this version.  Let me (<$maintloc>)
know of any problems this may cause.

EOM
 case "$shrpdir" in
 "$archlibexp/CORE")
  $cat >&4 <<EOM
But your current setting of $shrpdir is
the default anyway, so it's harmless.
EOM
  ;;
 *)
  $cat
 >&4 <<EOM
Further, your current attempted setting of $shrpdir
conflicts with the value of $archlibexp/CORE
that installperl will use.
EOM
  ;;
 esac
 ;;
esac

# How will the perl executable find the installed shared $libperl?
# Add $xxx to ccdlflags.
# If we can't figure out a command-line option, use $shrpenv to
# set env LD_RUN_PATH.  The main perl makefile uses this.
shrpdir=$archlibexp/CORE
xxx="
tmp_shrpenv="
if "$useshrplib"; then
   case "$osname" in
 aix)
  # We'll set it in Makefile.SH...
  ;;
 solaris)
  xxx="-R $shrpdir"
  ;;
 freebsd|minix|mirbsd|netbsd|openbsd|interix|dragonfly|bitrig)
  xxx="-Wl,-R$shrpdir"
  ;;
 bsdos|linux|irix*|dec_osf|gnu*|haiku)
  xxx="-Wl,-rpath,$shrpdir"
  ;;
```

```
 hpux*)
  # hpux doesn't like the default, either.
  tmp_shrpenv="env LDOPTS=\"+s +b${shrpdir}\""
  ;;
 cygwin)
  # cygwin needs only ldlibpth
  ;;
 *)
  tmp_shrpenv="env LD_RUN_PATH=$shrpdir"
  ;;
 esac
 case "$xxx" in
 '') ;;
 *)
  # Only add $xxx if it isn't already in ccdlflags.
  case
 " $ccdlflags " in
  *" $xxx "*) ;;
  *) ccdlflags="$ccdlflags $xxx"
   cat <<EOM >&4

Adding $xxx to the flags
passed to $ld so that the perl executable will find the
installed shared $libperl.

EOM
   ;;
  esac
  ;;
 esac
fi
# Fix ccdlflags in AIX for building external extensions.
# (For building Perl itself bare -bE:perl.exp is needed,
#  Makefile.SH takes care of this.)
case "$osname" in
aix) ccdlflags="$ccdlflags -bE:$installarchlib/CORE/perl.exp" ;;
esac
# Respect a hint or command-line value.
case "$shrpenv" in
'') shrpenv="$tmp_shrpenv" ;;
esac
case "$ldlibpthname" in
'') ldlibpthname=LD_LIBRARY_PATH ;;
none) ldlibpthname='' ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/perl/libperl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: html3dir.U,v $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: html3dir.U,v $
?RCS:
?MAKE:html3dir html3direxp installhtml3dir: cat sed Loc Myread \
 spackage test Getfile Setprefixvar Prefixit Prefixup html1dir
?MAKE: -pick add $@ %<
?Y:TOP
?D:html3dir=''
?S:html3dir:
?S: This variable contains the name of the directory in which html
?S: source pages are to be put.  This directory is for pages
?S: that describe libraries or modules.  It is intended to
?S: correspond roughly to section 3 of the Unix manuals.
?S:.
?D:html3direxp=''
?S:html3direxp:
?S: This variable
 is the same as the html3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installhtml3dir=''
?S:installhtml3dir:
?S: This variable is really the same as html3direxp, unless you are
?S: using a different installprefix.  For extra portability, you
?S: should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set html3direxp
?LINT:set installhtml3dir
: determine where html pages for libraries and modules go
set html3dir html3dir none
eval $prefixit
$cat <<EOM

If you wish to install html files for modules associated with $spackage,
indicate the appropriate directory here.  To skip installing html files,
```

```
answer "none".
EOM
: There is no obvious default.  If they have specified html1dir, then
: try to key off that, possibly changing .../html1 into .../html3.
case "$html3dir" in
") html3dir=`echo "$html1dir" | $sed 's/1$/3$/'` ;;
*) dflt=$html3dir ;;
esac
fn=dn+~
rp="Directory for the $spackage module
 html pages?"
. ./getfile
prefixvar=html3dir
. ./setprefixvar
: Use ' ' for none so value is preserved next time through Configure
$test X"$html3dir" = "X" && html3dir=' '
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/html3dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: gidtype.U,v $
?RCS: Revision 3.0.1.3  1994/08/29  16:21:44  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS: patch32: removed useless usage of Setvar (for now)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:21:07  ram
?RCS: patch27: added lint hint
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:01:51  ram
?RCS: patch23: protected gidtype setting via setvar (ADO)
?RCS: patch23: made Gid_t comment more explicit (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:11  ram
?RCS:
 Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:gidtype: Myread Typedef Findhdr
?MAKE: -pick add $@ %<
?S:gidtype:
?S: This variable defines Gid_t to be something like gid_t, int,
?S: ushort, or whatever type is used to declare the return type
?S: of getgid().  Typically, it is the type of group ids in the kernel.
?S:.
?C:Gid_t (GIDTYPE):
?C: This symbol holds the return type of getgid() and the type of
?C: argument to setrgid() and related functions.  Typically,
?C: it is the type of group ids in the kernel. It can be int, ushort,
?C: uid_t, etc... It may be necessary to include <sys/types.h> to get
?C: any typedef'ed information.
?C:.
?H:#define Gid_t $gidtype  /* Type for getgid(), etc... */
?H:.
?T:xxx
: see what type gids are declared as in the kernel
set gid_t gidtype xxx stdio.h sys/types.h
eval $typedef
case "$gidtype" in
xxx)
 xxx=`./findhdr sys/user.h`
 set `grep 'groups\[NGROUPS\];' "$xxx" 2>/dev/null` unsigned short
 case $1 in
 unsigned) dflt="$1 $2" ;;
 *) dflt="$1"
 ;;
 esac
 ;;
*) dflt="$gidtype";;
esac
echo " "
rp="What is the type for group ids returned by getgid()?"
. ./myread
gidtype="$ans"
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/gidtype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: You may redistribute only under the terms of the Artistic License,
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```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_access.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_access: test +cc cat +cppflags h_fcntl h_sysfile rm Inlibc Findhdr
?MAKE: -pick add $@ %<
?S:d_access:
?S: This variable conditionally defines HAS_ACCESS if the access() system
?S: call is available to check for access permissions using real IDs.
?S:.
?C:HAS_ACCESS:
?C: This manifest constant lets the C program know that the access()
?C: system call is available to check for accessibility
 using real UID/GID.
?C: (always present on UNIX.)
?C:.
?H:#$d_access HAS_ACCESS  /**/
?H:.
?W:%<:R_OK W_OK X_OK F_OK
?LINT:set d_access
?LINT:change h_fcntl h_sysfile
: access call always available on UNIX
set access d_access
eval $inlibc

: locate the flags for 'access()'
case "$d_access" in
"$define")
 echo " "
 $cat >access.c <<'EOCP'
#include <sys/types.h>
#ifdef I_FCNTL
#include <fcntl.h>
#endif
#ifdef I_SYS_FILE
#include <sys/file.h>
#endif
#ifdef I_UNISTD
#include <unistd.h>
#endif
int main() {
 exit(R_OK);
}
EOCP
```

```
 : check sys/file.h first, no particular reason here
 if $test `./findhdr sys/file.h` && \
  $cc -o access $cppflags -DI_SYS_FILE access.c >/dev/null 2>&1 ; then
  h_sysfile=true;
  echo "<sys/file.h> defines the *_OK access constants." >&4
 elif $test `./findhdr fcntl.h` && \
  $cc -o access $cppflags -DI_FCNTL access.c >/dev/null 2>&1 ; then
  h_fcntl=true;
  echo "<fcntl.h> defines the *_OK access constants." >&4
@if I_UNISTD
 elif $test `./findhdr unistd.h`
 && \
  $cc -o access $cppflags -DI_UNISTD access.c >/dev/null 2>&1 ; then
  echo "<unistd.h> defines the *_OK access constants." >&4
@end
 else
  echo "I can't find the four *_OK access constants--I'll use mine." >&4
 fi
 ;;
esac
$rm -f access*
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_access.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_limits.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_limits.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:20  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_limits: Inhdr
?MAKE: -pick add $@ %<
?S:i_limits:
?S: This variable conditionally defines the I_LIMITS symbol, and indicates
?S: whether a C program may include <limits.h> to get symbols like WORD_BIT
?S: and friends.
?S:.
```

```
?C:I_LIMITS:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <limits.h> to
 get definition of symbols like WORD_BIT or
?C: LONG_MAX, i.e. machine dependant limitations.
?C:.
?H:#$i_limits I_LIMITS  /**/
?H:.
?LINT:set i_limits
: see if this is a limits.h system
set limits.h i_limits
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_limits.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorhtml3dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorhtml3dir.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorhtml3dir vendorhtml3direxp installvendorhtml3dir: html3dir Getfile \
 Oldconfig Setprefixvar Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorhtml3dir:
?S: This variable contains the name of the directory for html
?S: library pages.  It may have a ~ on the front.
?S: The standard distribution will put nothing
 in this directory.
?S: Vendors who distribute perl may wish to place their own
?S: html pages for modules and extensions in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorhtml3direxp:
?S: This variable is the ~name expanded version of vendorhtml3dir, so that you
```

```
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorhtml3dir="
?S:installvendorhtml3dir:
?S: This variable is really the same as vendorhtml3direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorhtml3dir
: Set the vendorhtml3dir variables
case "$vendorprefix" in
") vendorhtml3dir="
 vendorhtml3direxp="
 ;;
*) : determine where vendor-supplied module html pages go.
 : There is no standard location, so try to copy the previously-selected
 : directory structure for the core html pages.
 : XXX Better default
 suggestions would be welcome.
 case "$vendorhtml3dir" in
 ") dflt=`echo "$html3dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
 *) dflt=$vendorhtml3dir ;;
 esac
 case "$dflt" in
 "|' ') dflt=none ;;
 esac
 fn=dn+~
 rp='Pathname for the vendor-supplied html pages?'
 . ./getfile
 vendorhtml3dir="$ans"
 vendorhtml3direxp="$ansexp"
 ;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorhtml3dir" = "X" && vendorhtml3dir=' '
prefixvar=vendorhtml3dir
. ./installprefix
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/vendorhtml3dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_futimes: Compile cat rm_try run
?MAKE: -pick add $@ %<
?S:d_futimes:
?S: This variable conditionally defines the HAS_FUTIMES symbol, which
?S: indicates to the C program that the futimes() routine is available.
?S:.
?C:HAS_FUTIMES:
?C: This symbol, if defined, indicates that the futimes routine is
?C: available to change file descriptor time stamps with struct timevals.
?C:.
?H:#$d_futimes HAS_FUTIMES  /**/
?H:.
?T:rc
?F:!try
: check for a working futimes
d_futimes="$undef"
echo " "
echo "Checking if you have a working futimes()" >&4
$cat >try.c <<EOCP
#include <stdio.h>
#include <stdlib.h>
#include <sys/time.h>
#include <errno.h>
#include <fcntl.h>
#include <stdlib.h>

int main ()
{
   int fd,
 rv;
   fd = open ("try.c", O_RDWR);
   if (-1 == fd) exit (1);
   rv = futimes (fd, NULL);
   exit (rv == -1 ? errno : 0);
}
EOCP
set try
if eval $compile; then
   `$run ./try`
   rc=$?
   case "$rc" in
 0)  echo "Yes, you have" >&4
     d_futimes="$define"
     ;;
 *)  echo "No, you have futimes, but it isn't working ($rc) (probably harmless)" >&4
```

```
    ;;
  esac
else
  echo "No, it does not (probably harmless)" >&4
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_futimes.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: shm_for.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: shm_for.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:28:37  ram
?RCS: patch36: call ./Cppsym explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:shm_for shm_att shm_lim: Cppsym Myread ipc uname
?MAKE: -pick add $@ %<
?S:shm_for:
?S: This variable tells us the type of machine we're expecting the
?S: shared memory code to run on.  The value is available to C
 programs
?S: in the C_SHM_FOR manifest.
?S:.
?S:shm_att:
?S: This variable tells us where a shared memory segment should be
?S: attached.  Good values are HIGH, LOW, and ZERO.
?S:.
?S:shm_lim:
?S: This variable tells us if shared memory attached HIGH should
?S: have an upper limit.
?S:.
?X: ------------------------------------------------------
?X: It's a potential lose to define anything beginning with SHM...
?X: At least we can think that S_ stands for "String version of ..." -- HMS
```

```
?X: ------------------------------------------------------------
?C:S_SHM_FOR ~ %<:
?C: This symbol identifies what we chose for the target system's
?C: default shared memory configuration parameters.
?C:.
?C:S_SHM_ATT ~ %<:
?C: This symbol holds the default "place" to attach shared memory.
?C: Values are "HIGH", "ZERO", and "LOW".
?C:.
?C:S_SHM_LIM ~ %<:
?C: This symbol holds the default upper bound address limit if shared
?C: memory is attached HIGH.  If zero, there is no upper limit.
?C:.
?H:?%<:#ifdef
 SERVE_SHM
?H:?%<:#define S_SHM_FOR "$shm_for"
?H:?%<:#define S_SHM_ATT "$shm_att"
?H:?%<:#define S_SHM_LIM "$shm_lim"
?H:?%<:#endif
?H:.
?W:%<:S_SHM_FOR S_SHM_ATT S_SHM_LIM
: see how to attach shared memory
echo " "
echo "Deciding how to attach shared memory..." >&4

case "$ipc" in
shm)
 shm_for='Default case'
 shm_att='HIGH'
 shm_lim='0x0'
 if ./Cppsym tower32 tower32_600; then
  echo "NCR Towers are usually normal..."
  : echo "Oh, an NCR Tower."
  : This works for the 600
  shm_for='NCR Tower 32'
  shm_att='LOW'
 else
  case "$uname" in
  */uname)
   case "`uname -m`" in
   ACS??68*)
    echo "Oh, an Altos 3068."
    shm_for='Altos 3068:'
    shm_lim='0x800000'
    ;;
    esac
    ;;
  *)
```

```
  echo "Looks normal to me..."
  ;;
 esac
fi

dflt="$shm_for"
rp='Description of shared memory configuration?'
. ./myread
shm_for="$ans"

dflt="$shm_att"
rp='Where should shared memory be attached?'
. ./myread
shm_att="$ans"

case "$shm_att" in
HIGH)
 dflt="$shm_lim"
 rp='What is
the upper address limit for shared memory?'
 . ./myread
 shm_lim="$ans"
 ;;
*)
 shm_lim=''
 ;;
esac
;;

*)
 echo "but you aren't using shared memory so I won't bother." >&4
 shm_for='NOT CONFIGURED'
 shm_att='NONE'
 shm_lim='-1'
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/shm_for.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: package.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: package.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:27:21  ram
?RCS: patch36: beware of non-ascii character sets when translating case
?RCS:
?RCS: Revision 3.0.1.2  1993/11/10  17:37:02  ram
?RCS: patch14: skip definition of spackage if not otherwise used
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:11:10  ram
?RCS: patch10: added spackage, suitable for starting sentences
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:28  ram
?RCS: Baseline for dist 3.0
 netwide release.
?RCS:
?MAKE:package spackage: Nothing
?MAKE: -pick wipe $@ %<
?S:package:
?S: This variable contains the name of the package being constructed.
?S: It is primarily intended for the use of later Configure units.
?S:.
?S:spackage:
?S: This variable contains the name of the package being constructed,
?S: with the first letter uppercased, i.e. suitable for starting
?S: sentences.
?S:.
?X: dist-4 has defined PACKAGE: here, which clashes with perly.h
?X:  as package is a reserved keyword in perl
?T:first last
: set package name
package='<PACKAGENAME>'
@if spackage
first=`echo $package | sed -e 's/^\(.\).*/\1/'`
last=`echo $package | sed -e 's/^.\(.*\)/\1/'`
?X:
?X: So early in the Configure script, we don't have ./tr set up and can't
?X: include Tr in our dependency or that would create a cycle. Therefore,
?X: we have to somehow duplicate the work done in Tr. That's life.
?X:
case "`echo AbyZ | tr '[:lower:]' '[:upper:]' 2>/dev/null`"-"`echo AbyZ | tr '[:upper:]' '[:lower:]'
 2>/dev/null`" in
ABYZ-abyz) spackage=`echo $first | tr '[:lower:]' '[:upper:]'`$last;;
*) spackage=`echo $first | tr '[a-z]' '[A-Z]'`$last;;
esac
@end
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/package.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Finish.U,v $
?RCS: Revision 3.0.1.6  1995/02/15  14:09:30  ram
?RCS: patch51: now clearer about how to edit config.sh at the prompt (WED)
?RCS:
?RCS: Revision 3.0.1.5  1994/10/29  15:53:14  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.4  1994/05/06  14:19:37  ram
?RCS: patch23: added blank lines around 'End of Configure'
?RCS:
?RCS: Revision 3.0.1.3  1993/10/16  13:46:09  ram
?RCS: patch12: replaced Config_h by Magic_h in the dependency line
?RCS:
?RCS:
 Revision 3.0.1.2  1993/09/13  15:45:26  ram
?RCS: patch10: fixed shell evaluation w/o shell escape while in silent mode
?RCS:
?RCS: Revision 3.0.1.1  1993/08/30  08:55:59  ram
?RCS: patch8: prevents myread from blocking on empty answers, exceptionally
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit is the very last one in the Configure script.  It runs all the
?X: SH files, which among other things produce config.h and (usually) Makefile.
?X: It offers to do a make depend if the Makefile contains that target.
?X:
?MAKE:Finish: Chk_MANI Extract Myread Oldsym Magic_h cat rm contains \
 test package make
?MAKE: -pick add $@ %<
?F:!config.sh
```

```
?T:pwd
: Finish up by extracting the .SH files
case "$alldone" in
exit)
?X: They supplied the -E switch
 echo "Stopping at your request, leaving temporary files around."
 exit 0
 ;;
cont)
 ;;
")
 dflt="
 nostick=true
 $cat <<EOM

If you'd like to make any changes to the config.sh
 file before I begin
to configure things, do it as a shell escape now (e.g. !vi config.sh).

EOM
 rp="Press return or use a shell escape to edit config.sh:"
 . UU/myread
 nostick="
 case "$ans" in
 ") ;;
 *) : in case they cannot read
  sh 1>&4 -c "$ans";;
 esac
 ;;
esac

: if this fails, just run all the .SH files by hand
. ./config.sh

?X:
?X: Turn silent mode off from now on (we want a verbose file extraction).
?X: This means we have to explicitly test for '$silent' from now on to
?X: strip off any verbose messages.
?X:
echo " "
exec 1>&4
pwd=`pwd`
. ./UU/extract
cd "$pwd"

if $contains '^depend:' [Mm]akefile >/dev/null 2>&1; then
 dflt=y
 case "$silent" in
```

```
 true) ;;
 *)
  $cat <<EOM

Now you need to generate make dependencies by running "$make depend".
You might prefer to run it in background: "$make depend > makedepend.out &"
It can take a while, so you might not want to run it right now.

EOM
  ;;
 esac
 rp="Run $make depend now?"
 . UU/myread
 case "$ans" in
 y*)
  $make depend
 && echo "Now you must run '$make'."
  ;;
 *)
  echo "You must run '$make depend' then '$make'."
  ;;
 esac
elif test -f [Mm]akefile; then
 echo " "
 echo "Now you must run a $make."
else
 echo "Configure done."
fi

if $test -f Policy.sh; then
   $cat <<EOM

If you compile $package on a different machine or from a different object
directory, copy the Policy.sh file from this object directory to the
new one before you run Configure -- this will help you with most of
the policy defaults.

EOM
fi
if $test -f UU/config.msg; then
   echo "Hmm.  I also noted the following information while running:"
   echo " "
   $cat UU/config.msg >&4
fi
?X:
?X: kit*isdone files are left over by shell archives built using the makedist
?X: script which comes from dist, while ark*isdone files are left over by
?X: the cshar archive maker.
```

```
?X:
$rm -f kit*isdone ark*isdone
$rm -rf UU

: End of Configure
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Finish.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_faststdio: Setvar \
 d_stdstdio d_stdio_ptr_lval d_stdio_cnt_lval d_stdio_ptr_lval_sets_cnt
?MAKE: -pick add $@ %<
?S:d_faststdio:
?S: This variable conditionally defines the HAS_FAST_STDIO symbol,
?S: which indicates to the C program that the "fast stdio" is available
?S: to manipulate the stdio buffers directly.
?S:.
?C:HAS_FAST_STDIO:
?C: This symbol, if defined, indicates that the "fast stdio"
?C: is available to manipulate the stdio buffers directly.
?C:.
?H:#$d_faststdio HAS_FAST_STDIO  /**/
?H:.
?LINT:set d_faststdio
: see if fast_stdio exists
val="$undef"
case "$d_stdstdio:$d_stdio_ptr_lval" in
"$define:$define")
 case "$d_stdio_cnt_lval$d_stdio_ptr_lval_sets_cnt" in
 *$define*)
  echo "You
 seem to have 'fast stdio' to directly manipulate the stdio buffers." >&4
  val="$define"
  ;;
 esac
 ;;
esac
set d_faststdio
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_faststdio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: lex.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Orginal Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: lex.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:22:50  ram
?RCS: patch36: spurious single quote could cause Configure to crash
?RCS: patch36: (reported by Xavier Le Vourch <xavierl@eiffel.com>.)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:27:09  ram
?RCS: patch32: added lexflags variable for lex flags setting
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:06:01  ram
?RCS: patch23: added
 trailing blank line for metalint
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lex lexflags: Guess Myread Oldconfig flex test
?MAKE: -pick add $@ %<
?S:lex:
?S: This variable holds the name of the lexical analyser generator we
?S: want to use in the Makefile. It can be lex or flex.
?S:.
?S:lexflags:
?S: This variable holds any flags that should be passed to the lexical
?S: analyzer.  It is up to the Makefile to use it.
?S:.
: determine lexical analyser generator
case "$lex" in
")
 dflt=lex;;
*)
```

```
 dflt="$lex";;
esac
echo " "
if $test -f "$flex"; then
 rp='Which lexical analyser generator (lex or flex) shall I use?'
else
 rp='Which lexical analyser generator shall I use?'
fi
. ./myread
lex="$ans"

@if lexflags
: if using lex this will normally be useless, but flex frequently takes args
echo " "
case "$lexflags" in
") dflt='none';;
*) dflt="$lexflags";;
esac
rp="What flags should be given to $lex?"
. ./myread
case "$ans"
 in
none) lexflags=";;
*) lexflags="$ans";;
esac

@end
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/lex.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_killpg.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_killpg.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_killpg: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_killpg:
?S: This variable conditionally defines the HAS_KILLPG symbol, which
?S: indicates to the C program that the killpg() routine is available
?S: to kill process groups.
?S:.
?C:HAS_KILLPG (KILLPG):
?C: This symbol, if defined, indicates that the killpg routine is available
?C: to kill
 process groups.  If unavailable, you probably should use kill
?C: with a negative process number.
?C:.
?H:#$d_killpg HAS_KILLPG /**/
?H:.
?LINT:set d_killpg
: see if killpg exists
set killpg d_killpg
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_killpg.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Null.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Null.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:10  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit ends up producing shell code to set all variables to ".  This
?X: probably isn't necessary, but I'm paranoid.  About certain things.
?X:
?MAKE:Null: Head
?MAKE: -pick add.Null $@ %<
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Null.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_srandom_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_srandom_r srandom_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_stdlib extern_C
?MAKE: -pick add $@ %<
?S:d_srandom_r:
?S: This variable conditionally defines the HAS_SRANDOM_R symbol,
?S: which indicates to the C program that the srandom_r()
?S: routine is available.
?S:.
?S:srandom_r_proto:
?S: This variable encodes the prototype of srandom_r.
?S: It is zero if d_srandom_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_srandom_r
?S: is defined.
?S:.
?C:HAS_SRANDOM_R:
?C: This symbol, if defined, indicates that the srandom_r routine
?C: is available to srandom re-entrantly.
?C:.
?C:SRANDOM_R_PROTO:
?C: This
 symbol encodes the prototype of srandom_r.
?C: It is zero if d_srandom_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_srandom_r
?C: is defined.
?C:.
?H:#$d_srandom_r HAS_SRANDOM_R /**/
?H:#define SRANDOM_R_PROTO $srandom_r_proto /**/
?H:.
?T:try hdrs d_srandom_r_proto
: see if srandom_r exists
set srandom_r d_srandom_r
eval $inlibc
case "$d_srandom_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_stdlib stdlib.h"
 case "$d_srandom_r_proto:$usethreads" in
 ":define") d_srandom_r_proto=define
  set d_srandom_r_proto srandom_r $hdrs
```

```
 eval $hasproto ;;
*) ;;
esac
case "$d_srandom_r_proto" in
define)
case "$srandom_r_proto" in
"|0) try='int srandom_r(unsigned int, struct random_data*);'
./protochk "$extern_C $try" $hdrs && srandom_r_proto=I_TS ;;
esac
case "$srandom_r_proto" in
"|0) d_srandom_r=undef
 srandom_r_proto=0
 echo "Disabling srandom_r, cannot determine prototype." >&4 ;;
*
) case "$srandom_r_proto" in
 REENTRANT_PROTO*) ;;
 *) srandom_r_proto="REENTRANT_PROTO_$srandom_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "srandom_r has no prototype, not using it." >&4 ;;
 esac
 d_srandom_r=undef
 srandom_r_proto=0
 ;;
esac
;;
*) srandom_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_srandom_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: mallocsrc.U,v 3.0.1.2 1997/02/28 16:10:26 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
```

```
?RCS: $Log: mallocsrc.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:10:26  ram
?RCS: patch61: added support for Free_t, the type of free()
?RCS: patch61: replaced .o with $_o all over the place
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:10:46  ram
?RCS: patch23: added support for MYMALLOC, mainly  for perl5 (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:12  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:mallocsrc mallocobj usemallocwrap usemymalloc
 malloctype d_mymalloc \
 freetype: Myread \
 Oldconfig package Guess Setvar rm cat +cc +ccflags Findhdr \
 i_malloc i_stdlib sed libs _o ptrsize useithreads
?MAKE: -pick add $@ %<
?X: Put near top so that other tests don't erroneously include
?X: -lmalloc.  --AD  22 June 1998
?Y:TOP
?S:usemymalloc:
?S: This variable contains y if the malloc that comes with this package
?S: is desired over the system's version of malloc.  People often include
?S: special versions of malloc for efficiency, but such versions are often
?S: less portable.  See also mallocsrc and mallocobj.
?S: If this is 'y', then -lmalloc is removed from $libs.
?S:.
?S:usemallocwrap:
?S: This variable contains y if we are wrapping malloc to prevent
?S: integer overflow during size calculations.
?S:.
?S:mallocsrc:
?S: This variable contains the name of the malloc.c that comes with
?S: the package, if that malloc.c is preferred over the system malloc.
?S: Otherwise the value is null.  This variable is intended for generating
?S: Makefiles.
?S:.
?S:d_mymalloc:
?S: This
 variable conditionally defines MYMALLOC in case other parts
?S: of the source want to take special action if MYMALLOC is used.
?S: This may include different sorts of profiling or error detection.
?S:.
?S:mallocobj:
?S: This variable contains the name of the malloc.o that this package
?S: generates, if that malloc.o is preferred over the system malloc.
?S: Otherwise the value is null.  This variable is intended for generating
?S: Makefiles.  See mallocsrc.
```

```
?S:.
?S:freetype:
?S: This variable contains the return type of free().  It is usually
?S: void, but occasionally int.
?S:.
?S:malloctype:
?S: This variable contains the kind of ptr returned by malloc and realloc.
?S:.
?C:Free_t:
?C: This variable contains the return type of free().  It is usually
?C: void, but occasionally int.
?C:.
?C:Malloc_t (MALLOCPTRTYPE):
?C: This symbol is the type of pointer returned by malloc and realloc.
?C:.
?H:#define Malloc_t $malloctype   /**/
?H:#define Free_t
 $freetype   /**/
?H:.
?C:PERL_MALLOC_WRAP:
?C: This symbol, if defined, indicates that we'd like malloc wrap checks.
?C:.
?H:#$usemallocwrap PERL_MALLOC_WRAP  /**/
?H:.
?C:MYMALLOC:
?C: This symbol, if defined, indicates that we're using our own malloc.
?C:.
?H:#$d_mymalloc MYMALLOC   /**/
?H:.
?LINT:extern usedevel
?LINT:change libs
?X: Cannot test for mallocsrc; it is the unit's name and there is a bug in
?X: the interpreter which defines all the names, even though they are not used.
@if mallocobj
: determine whether to use malloc wrapping
echo " "
case "$usemallocwrap" in
[yY]*|true|$define) dflt='y' ;;
[nN]*|false|$undef) dflt='n' ;;
*) case "$usedevel" in
 [yY]*|true|$define) dflt='y' ;;
 *) dflt='n' ;;
 esac
 ;;
esac
rp="Do you wish to wrap malloc calls to protect against potential overflows?"
. ./myread
usemallocwrap="$ans"
```

```
case "$ans" in
y*|true)
 usemallocwrap="$define" ;;
*)
 usemallocwrap="$undef" ;;
esac

: determine which malloc to compile in
echo " "
case "$usemymalloc"
 in
[yY]*|true|$define) dflt='y' ;;
[nN]*|false|$undef) dflt='n' ;;
*) case "$ptrsize" in
 4) dflt='y' ;;
 *) dflt='n' ;;
 esac
 if test "$useithreads" = "$define"; then dflt='n'; fi
 ;;
esac
rp="Do you wish to attempt to use the malloc that comes with $package?"
. ./myread
usemymalloc="$ans"
case "$ans" in
y*|true)
 usemymalloc='y'
 mallocsrc='malloc.c'
 mallocobj="malloc$_o"
 d_mymalloc="$define"
?X: Maybe libs.U should be dependent on mallocsrc.U, but then
?X: most packages that use dist probably don't supply their own
?X: malloc, so this is probably an o.k. compromise
 case "$libs" in
 *-lmalloc*)
  : Remove malloc from list of libraries to use
  echo "Removing unneeded -lmalloc from library list" >&4
  set `echo X $libs | $sed -e 's/-lmalloc / /' -e 's/-lmalloc$//'`
  shift
  libs="$*"
  echo "libs = $libs" >&4
  ;;
 esac
 ;;
*)
 usemymalloc='n'
 mallocsrc=''
 mallocobj=''
 d_mymalloc="$undef"
```

```
 ;;
esac

@end
@if MALLOCPTRTYPE || Malloc_t || Free_t
: compute the return types of
 malloc and free
echo " "
$cat >malloc.c <<END
#$i_malloc I_MALLOC
#$i_stdlib I_STDLIB
#include <stdio.h>
#include <sys/types.h>
#ifdef I_MALLOC
#include <malloc.h>
#endif
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#ifdef TRY_MALLOC
void *malloc();
#endif
#ifdef TRY_FREE
void free();
#endif
END
@if MALLOCPTRTYPE || Malloc_t
case "$malloctype" in
")
 if $cc $ccflags -c -DTRY_MALLOC malloc.c >/dev/null 2>&1; then
  malloctype='void *'
 else
  malloctype='char *'
 fi
 ;;
esac
echo "Your system wants malloc to return '$malloctype', it would seem." >&4
@end

@if Free_t
case "$freetype" in
")
 if $cc $ccflags -c -DTRY_FREE malloc.c >/dev/null 2>&1; then
  freetype='void'
 else
  freetype='int'
 fi
 ;;
```

```
esac
echo "Your system uses $freetype free(), it would seem." >&4
@end
$rm -f malloc.[co]
@end
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/mallocsrc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sigblock.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sigblock.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:21  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sigblock: Inlibc
?MAKE: -pick add $@ %<
?S:d_sigblock:
?S: This variable conditionally defines HAS_SIGBLOCK if sigblock() is
?S: available to block signal reception.
?S:.
?C:HAS_SIGBLOCK:
?C: This symbol, if defined, indicates that the sigblock routine is
?C: available to block signal reception.
?C:.
?H:#$d_sigblock HAS_SIGBLOCK /**/
?H:.
?LINT:set
 d_sigblock
: see if sigblock exists
set sigblock d_sigblock
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sigblock.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_time.U,v 3.0.1.2 1995/07/25 14:07:43 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_time.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:07:43  ram
?RCS: patch56: typo fix, sytem -> system
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:16:38  ram
?RCS: patch36: now uses new Typedef unit to compute type information (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X: Maybe <sys/types.h> should be included?
?X:INC: i_systypes
?MAKE:d_time timetype: Csym Setvar Findhdr Myread Typedef
?MAKE: -pick
 add $@ %<
?S:d_time:
?S: This variable conditionally defines the HAS_TIME symbol, which indicates
?S: that the time() routine exists.  The time() routine is normally
?S: provided on UNIX systems.
?S:.
?S:timetype:
?S: This variable holds the type returned by time(). It can be long,
?S: or time_t on BSD sites (in which case <sys/types.h> should be
?S: included). Anyway, the type Time_t should be used.
?S:.
?C:HAS_TIME (TIMER):
?C: This symbol, if defined, indicates that the time() routine exists.
?C:.
?C:Time_t (TIMETYPE):
?C: This symbol holds the type returned by time(). It can be long,
?C: or time_t on BSD sites (in which case <sys/types.h> should be
?C: included).
?C:.
?H:#$d_time HAS_TIME  /**/
?H:#define Time_t $timetype  /* Time type */
?H:.
?LINT:set d_time
: see if time exists
```

```
echo " "
?X: MPE/iX needs this protection of hint values.
?X: See d_sterror.U for more explanation.
if test "X$d_time" = X -o X"$timetype" = X; then
   if set time val -f d_time; eval $csym; $val;
 then
  echo 'time() found.' >&4
  val="$define"
  rp="What is the type returned by time() on this system?"
  set time_t timetype long stdio.h sys/types.h
  eval $typedef_ask
   else
  echo 'time() not found, hope that will do.' >&4
  val="$undef"
  timetype='int';
   fi
   set d_time
   eval $setvar
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/d_time.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996,1998 Andy Dougherty
?RCS: Copyright (c) 1996, Sven Verdoolaege
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_gnulibc gnulibc_version: Myread Oldconfig Setvar rm_try \
 cat Compile run
?MAKE: -pick add $@ %<
?S:d_gnulibc:
?S: Defined if we're dealing with the GNU C Library.
?S:.
?S:gnulibc_version:
?S: This variable contains the version number of the GNU C library.
?S: It is usually something like '2.2.5'.  It is a plain '' if this
?S: is not the GNU C library, or if the version is unknown.
?S:.
```

```
?C:HAS_GNULIBC ~ %<:
?C: This
 symbol, if defined, indicates to the C program that
?C: the GNU C library is being used.  A better check is to use
?C: the __GLIBC__ and __GLIBC_MINOR__ symbols supplied with glibc.
?C:.
?H:?%<:#$d_gnulibc HAS_GNULIBC   /**/
?H:?%<:#if defined(HAS_GNULIBC) && !defined(_GNU_SOURCE)
?H:?%<:#define _GNU_SOURCE
?H:?%<:#endif
?H:.
?F:!glibc.ver !try.c !try
?LINT: set d_gnulibc
?LINT: usefile try.c
?LINT: known _GNU_SOURCE
?X: gnulibc can be executed by calling __libc_main().
?X: Ulrich Drepper doesn't think any other libc does that,
?X: but we check if it says 'GNU C Library' to be sure.
?X:
?X: Alas, as of 3/1998 glibc 2.0.7 reportedly isn't going to
?X: have __libc_main() anymore. :-(.  Fortunately, all released
?X: versions of glibc 2.x.x _do_ have CPP variables.  For 2.0.6,
?X: they are:
?X: #define __GLIBC__  2
?X: #define__GLIBC_MINOR__ 0.
?X: (The '6' isn't available :-(.
?X: glibc2.1 will also have
?X:  extern const char * __gnu_get_libc_release(void);
?X:  extern const char *
 __gnu_get_libc_version(void);
?X: functions.   --thanks to Andreas Jaeger.   --AD  6/1998.
?X: Although the exact format isn't documented, __gnu_get_libc_version()
?X: returns a simple string '2.1.3' in glibc 2.1.3.
?X:
: determine whether we are using a GNU C library
echo " "
echo "Checking for GNU C Library..." >&4
cat >try.c <<'EOCP'
/* Find out version of GNU C library.  __GLIBC__ and __GLIBC_MINOR__
  alone are insufficient to distinguish different versions, such as
  2.0.6 and 2.0.7.  The function gnu_get_libc_version() appeared in
  libc version 2.1.0.      A. Dougherty,  June 3, 2002.
*/
#include <stdio.h>
int main(void)
{
#ifdef __GLIBC__
#   ifdef __GLIBC_MINOR__
```

```
#       if __GLIBC__ >= 2 && __GLIBC_MINOR__ >= 1
#           include <gnu/libc-version.h>
     printf("%s\n",  gnu_get_libc_version());
#       else
     printf("%d.%d\n",  __GLIBC__, __GLIBC_MINOR__);
#       endif
#   else
 printf("%d\n",  __GLIBC__);
#   endif
   return 0;
#else
   return 1;
#endif
}
EOCP
set
 try
if eval $compile_ok && $run ./try > glibc.ver; then
 val="$define"
 gnulibc_version=`$cat glibc.ver`
 echo "You are using the GNU C Library version $gnulibc_version"
else
 val="$undef"
 gnulibc_version=''
 echo "You are not using the GNU C Library"
fi
$rm_try glibc.ver
set d_gnulibc
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_gnulibc.U
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```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_quad quadtype uquadtype quadkind: \
 longsize intsize d_longlong longlongsize d_int64_t \
 Inhdr Setvar
?MAKE: -pick add $@ %<
?S:d_quad:
?S: This variable, if defined, tells that there's a 64-bit integer type,
```

```
?S: quadtype.
?S:.
?S:quadtype:
?S: This variable defines Quad_t to be something like long, int,
?S: long long, int64_t, or whatever type is used for 64-bit integers.
?S:.
?S:quadkind:
?S: This variable, if defined, encodes the type of a quad:
?S: 1 = int, 2 = long, 3 = long long, 4 = int64_t.
?S:.
?S:uquadtype:
?S: This variable defines Uquad_t to be something like unsigned long,
?S: unsigned int, unsigned long long, uint64_t, or whatever type is
?S: used for 64-bit integers.
?S:.
?C:HAS_QUAD:
?C: This
 symbol, if defined, tells that there's a 64-bit integer type,
?C: Quad_t, and its unsigned counterpart, Uquad_t. QUADKIND will be one
?C: of QUAD_IS_INT, QUAD_IS_LONG, QUAD_IS_LONG_LONG, QUAD_IS_INT64_T,
?C: or QUAD_IS___INT64.
?C:.
?H:#$d_quad HAS_QUAD /**/
?H:?%<:#ifdef HAS_QUAD
?H:?%<:#   define Quad_t $quadtype /**/
?H:?%<:#   define Uquad_t $uquadtype /**/
?H:?%<:#   define QUADKIND $quadkind /**/
?H:?%<:#   define QUAD_IS_INT 1
?H:?%<:#   define QUAD_IS_LONG 2
?H:?%<:#   define QUAD_IS_LONG_LONG 3
?H:?%<:#   define QUAD_IS_INT64_T 4
?H:?%<:#   define QUAD_IS___INT64 5
?H:?%<:#endif
?H:.
?LINT:set quadtype
?LINT:set uquadtype
: Check if 64bit ints have a quad type
echo " "
echo "Checking which 64-bit integer type we could use..." >&4
?X: We prefer quad types in order of int, long, long long, int64_t.

case "$intsize" in
8) val=int
  set quadtype
  eval $setvar
  val='"unsigned int"'
  set uquadtype
  eval $setvar
```

```
  quadkind=1
  ;;
*) case "$longsize" in
  8)
 val=long
     set quadtype
     eval $setvar
     val='"unsigned long"'
     set uquadtype
     eval $setvar
     quadkind=2
     ;;
  *) case "$d_longlong:$longlongsize" in
     define:8)
       val='"long long"'
       set quadtype
       eval $setvar
       val='"unsigned long long"'
       set uquadtype
       eval $setvar
       quadkind=3
       ;;
     *) case "$d_int64_t" in
        define)
          val=int64_t
          set quadtype
          eval $setvar
          val=uint64_t
          set uquadtype
          eval $setvar
          quadkind=4
          ;;
        esac
        ;;
     esac
     ;;
  esac
  ;;
esac

case "$quadtype" in
") echo "Alas, no 64-bit integer types in sight." >&4
 d_quad="$undef"
 ;;
*) echo "We could use '$quadtype' for 64-bit integers." >&4
 d_quad="$define"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/a_dvisory/quadtype.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_gethbynm.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_gethbynm: Inlibc
?MAKE: -pick add $@ %<
?S:d_gethbynm (d_gethhstby):
?S: This variable conditionally defines the HAS_GETHOSTBYNAME symbol, which
?S: indicates to the C program that the gethostbyname() routine is available
?S: to lookup host names in some data base or other.
?S:.
?C:HAS_GETHOSTBYNAME (GETHOSTBYNAME):
?C: This symbol, if defined, indicates that the gethostbyname()
 routine is
?C: available to lookup host names in some data base or other.
?C:.
?H:#$d_gethbynm HAS_GETHOSTBYNAME  /**/
?H:.
?LINT:set d_gethbynm
: see if gethostbyname exists
set gethostbyname d_gethbynm
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_gethbynm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sysconf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_sysconf.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:15:57  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_sysconf: Inlibc
?MAKE: -pick add $@ %<
?S:d_sysconf:
?S: This variable conditionally defines the HAS_SYSCONF symbol, which
?S: indicates to the C program that the sysconf() routine is available
?S: to determine system related limits and options.
?S:.
?C:HAS_SYSCONF:
?C: This
 symbol, if defined, indicates that sysconf() is available
?C: to determine system related limits and options.
?C:.
?H:#$d_sysconf HAS_SYSCONF /**/
?H:.
?LINT:set d_sysconf
: see if sysconf exists
set sysconf d_sysconf
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sysconf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: h_fcntl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: h_fcntl.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:12  ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:h_fcntl: Nothing
?MAKE: -pick add $@ %<
?S:h_fcntl:
?S: This is variable gets set in various places to tell i_fcntl that
?S: <fcntl.h> should be included.
?S:.
: Initialize h_fcntl
h_fcntl=false
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/h_fcntl.U
No license file was found, but licenses were detected in source scan.

```
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:sizesize: Myread Typedef sizetype Compile run i_stdlib
?MAKE: -pick add $@ %<
?S:sizesize:
?S: This variable contains the size of a sizetype in bytes.
?S:.
?C:Size_t_size:
?C: This symbol holds the size of a Size_t in bytes.
?C:.
?H:#define Size_t_size $sizesize  /**/
?H:.
?T:yyy zzz
?F:!try
: Check size of size
echo " "
case "$sizetype" in
*_t) zzz="$sizetype" ;;
*)   zzz="filesize" ;;
esac
echo "Checking the size of $zzz..." >&4
cat > try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
```

```
#ifdef I_STDLIB
#include
 <stdlib.h>
#endif
int main() {
   printf("%d\n", (int)sizeof($sizetype));
   exit(0);
}
EOCP
set try
if eval $compile_ok; then
 yyy=`$run ./try`
 case "$yyy" in
 ") sizesize=4
  echo "(I can't execute the test program--guessing $sizesize.)" >&4
  ;;
 *) sizesize=$yyy
  echo "Your $zzz size is $sizesize bytes."
  ;;
 esac
else
 sizesize=4
 echo "(I can't compile the test program--guessing $sizesize.)" >&4
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/sizesize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_open3.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:37:12  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  13:58:26  ram
?RCS: patch56: added knowledge of the O_NONBLOCK symbol
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:44  ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_open3: test +cc cat +cppflags h_fcntl h_sysfile rm Setvar Findhdr Warn
?MAKE: -pick add $@ %<
?X: It would be easy to separate the h_O_stuff from this.
?X: Is there a reason
 to do so? -- HMS
?S:d_open3:
?S: This variable conditionally defines the HAS_OPEN3 manifest constant,
?S: which indicates to the C program that the 3 argument version of
?S: the open(2) function is available.
?S:.
?C:HAS_OPEN3 (OPEN3):
?C: This manifest constant lets the C program know that the three
?C: argument form of open(2) is available.
?C:.
?H:#$d_open3 HAS_OPEN3  /**/
?H:.
?W:%<:O_RDONLY O_WRONLY O_RDWR O_NDELAY O_APPEND O_SYNC O_CREAT O_TRUNC
?W:%<:O_EXCL O_NONBLOCK
?F:!open3
?LINT:set d_open3
?LINT:change h_fcntl h_sysfile
: Locate the flags for 'open()'
echo " "
$cat >open3.c <<'EOCP'
#include <sys/types.h>
#ifdef I_FCNTL
#include <fcntl.h>
#endif
#ifdef I_SYS_FILE
#include <sys/file.h>
#endif
int main() {
 if(O_RDONLY);
#ifdef O_TRUNC
 exit(0);
#else
 exit(1);
#endif
}
EOCP
: check sys/file.h first to get FREAD on Sun
if $test `./findhdr sys/file.h` && \
  $cc $cppflags "-DI_SYS_FILE" -o open3 open3.c >/dev/null 2>&1 ; then
 h_sysfile=true;
 echo "<sys/file.h> defines the
```

```
 O_* constants..." >&4
 if ./open3; then
  echo "and you have the 3 argument form of open()." >&4
  val="$define"
 else
  echo "but not the 3 argument form of open().  Oh, well." >&4
  val="$undef"
 fi
elif $test `./findhdr fcntl.h` && \
  $cc "-DI_FCNTL" -o open3 open3.c >/dev/null 2>&1 ; then
 h_fcntl=true;
 echo "<fcntl.h> defines the O_* constants..." >&4
 if ./open3; then
  echo "and you have the 3 argument form of open()." >&4
  val="$define"
 else
  echo "but not the 3 argument form of open().  Oh, well." >&4
  val="$undef"
 fi
else
 val="$undef"
 ./warn "I can't find the O_* constant definitions!  You got problems."
fi
set d_open3
eval $setvar
$rm -f open3*
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_open3.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_voidsig.U,v 3.0.1.3 1995/05/12 12:12:46 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_voidsig.U,v $
?RCS: Revision 3.0.1.3  1995/05/12  12:12:46  ram
?RCS: patch54: made cppflags dependency optional
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:20:35  ram
?RCS: patch32: now sets signal_t only once d_voidsig is known (WED)
```

```
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:59:54  ram
?RCS: patch30: now properly sets signal_t when re-using previous value
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_voidsig
 signal_t: rm contains cppstdin cppminus +cppflags test Myread \
 Oldconfig Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_voidsig:
?S: This variable conditionally defines VOIDSIG if this system
?S: declares "void (*signal(...))()" in signal.h.  The old way was to
?S: declare it as "int (*signal(...))()".
?S:.
?S:signal_t:
?S: This variable holds the type of the signal handler (void or int).
?S:.
?C:VOIDSIG:
?C: This symbol is defined if this system declares "void (*signal(...))()" in
?C: signal.h.  The old way was to declare it as "int (*signal(...))()".  It
?C: is up to the package author to declare things correctly based on the
?C: symbol.
?C:.
?C:Signal_t (SIGNAL_T):
?C: This symbol's value is either "void" or "int", corresponding to the
?C: appropriate return type of a signal handler.  Thus, you can declare
?C: a signal handler using "Signal_t (*handler)()", and define the
?C: handler using "Signal_t handler(sig)".
?C:.
?H:#$d_voidsig VOIDSIG /**/
?H:#define
 Signal_t $signal_t /* Signal handler's return type */
?H:.
?T:xxx
?LINT:set d_voidsig
: see if signal is declared as pointer to function returning int or void
echo " "
xxx=`./findhdr signal.h`
$test "$xxx" && $cppstdin $cppminus $cppflags < $xxx >$$.tmp 2>/dev/null
if $contains 'int.*\*[  ]*signal' $$.tmp >/dev/null 2>&1 ; then
 echo "You have int (*signal())() instead of void." >&4
 val="$undef"
elif $contains 'void.*\*[  ]*signal' $$.tmp >/dev/null 2>&1 ; then
 echo "You have void (*signal())()." >&4
 val="$define"
elif $contains 'extern[  ]*[(\*]*signal' $$.tmp >/dev/null 2>&1 ; then
```

```
 echo "You have int (*signal())() instead of void." >&4
 val="$undef"
?X: This next test is kind of sloppy, but it catches Linux
?X: which has a
?X:  typedef void (*__sighandler_t)  (int)  ;
?X: A better fix would be to compile a C program with the proper
?X: prototype, but since nearly everyone uses void, we'll just go with
?X: this.
elif $contains 'void.*\*.*sig' $$.tmp >/dev/null 2>&1 ; then
 echo "You
 have void (*signal())()." >&4
 val="$define"
else
 case "$d_voidsig" in
 ")
 echo "I can't determine whether signal handler returns void or int..." >&4
  dflt=void
  rp="What type does your signal handler return?"
  . ./myread
  case "$ans" in
  v*) val="$define";;
  *) val="$undef";;
  esac;;
 "$define")
  echo "As you already told me, signal handler returns void." >&4
  val="$define"
  ;;
 *) echo "As you already told me, signal handler returns int." >&4
  val="$undef"
  ;;
 esac
fi
set d_voidsig
eval $setvar
case "$d_voidsig" in
"$define") signal_t="void";;
*) signal_t="int";;
esac
$rm -f $$.tmp
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_voidsig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sbrktype.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sbrktype.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:43  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:sbrktype: Myread Oldconfig Loc contains Findhdr
?MAKE: -pick add $@ %<
?S:sbrktype:
?S: This variable defines sbrktype to be something like caddr_t, char *,
?S: or whatever type is used to declare sbrk() in the kernel.
?S:.
?C:Caddr_t (SBRKTYPE):
?C: This symbol holds the type of a core address. It is inteded to be used
?C: to safely
 declare the return type of system calls like sbrk(). It might
?C: be necessary to include <sys/types.h> as well.
?C:.
?H:#define Caddr_t $sbrktype /* <core address> type */
?H:.
: see what type sbrk is declared as in the kernel
case "$sbrktype" in
")
 if $contains 'caddr_t;' `./findhdr sys/types.h` >/dev/null 2>&1 ; then
  dflt='caddr_t';
 else
  dflt='char *';
 fi
 ;;
*)  dflt="$sbrktype"
 ;;
esac
echo " "
rp="What is the return type of sbrk() on this system?"
. ./myread
sbrktype="$ans"
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/sbrktype.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: contains.U 1 2006-08-24 12:32:52Z rmanfredi $

```
?RCS:
?RCS: Copyright (c) 2020, Raphael Manfredi and Karl Williamson
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:compiler_warning: contains grep osname
?MAKE: -pick add $@ %<
?S:compiler_warning:
?S: This variable holds the command to check if the file specified as a
?S: parameter contains a compiler warning
?S:.
: See if a file contains compiler warnings
: See if a file contains compiler warnings
case "$osname" in
 'aix')
 cat >compiler_warning <<EOSS
# Sample for aix ('.5' indicates the column number in the line):
#    "op.h", line 203.5: 1506-159 (E) Bit field
 type specified for op_type
# Since the word 'warning' isn't present, use a fairly rigorous match of what
# warning messages look like
#           "    o       p       .  h   ", line    203     .   5       :   1506     -    159      (  E  )
$grep -E "^\\"[A-Za-z][A-Za-z0-9_]*\.[ch]\\", line [1-9][0-9]*[.][1-9][0-9]*: [1-9][0-9]*-[1-9][0-9]* \([EW][)] "
"\$1"
EOSS
      compiler_warning=./compiler_warning
      chmod +x $compiler_warning
   ;;
    # Maybe a colon after the 'warning' would be appropriate
 *) compiler_warning="$contains -i warning"
   ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/compiler_warning.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_rdchk.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_rdchk.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_rdchk: Inlibc
?MAKE: -pick add $@ %<
?S:d_rdchk:
?S: This variable conditionally defines the HAS_RDCHK symbol, which
?S: indicates to the C program that the rdchk() routine is available
?S: to find out if there is input pending on an IO channel.
?S:.
?C:HAS_RDCHK (RDCHK):
?C: This symbol, if defined, indicates that the rdchk routine
 is available
?C: to find out if there is input pending on an IO channel.  Generally
?C: the routine is used only if FIONREAD and O_NDELAY aren't available.
?C:.
?H:#$d_rdchk HAS_RDCHK  /**/
?H:.
?LINT:set d_rdchk
: see if rdchk exists
set rdchk d_rdchk
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_rdchk.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fork.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_fork.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:38  ram
?RCS: patch32: created by ADO
```

```
?RCS:
?MAKE:d_fork: Inlibc
?MAKE: -pick add $@ %<
?S:d_fork:
?S: This variable conditionally defines the HAS_FORK symbol, which
?S: indicates to the C program that the fork() routine is available.
?S:.
?C:HAS_FORK :
?C: This symbol, if defined, indicates that the fork routine is
?C: available.
?C:.
?H:#$d_fork
 HAS_FORK  /**/
?H:.
?LINT:set d_fork
: see if fork exists
set fork d_fork
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_fork.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: usenm.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:26:40  ram
?RCS: patch61: don't use nm with the GNU C library
?RCS: patch61: added support for Linux shared libs
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:usenm runnm nm_opt nm_so_opt: cat test Myread Oldconfig grep \
 d_gnulibc nm egrep rsrc osname Guess
?MAKE: -pick add $@ %<
?S:usenm:
?S: This variable contains 'true' or 'false' depending whether the
?S: nm extraction is wanted
```

```
 or not.
?S:.
?S:runnm:
?S: This variable contains 'true' or 'false' depending whether the
?S: nm extraction should be performed or not, according to the value
?S: of usenm and the flags on the Configure command line.
?S:.
?S:nm_opt:
?S: This variable holds the options that may be necessary for nm.
?S:.
?S:nm_so_opt:
?S: This variable holds the options that may be necessary for nm
?S: to work on a shared library but that can not be used on an
?S: archive library.  Currently, this is only used by Linux, where
?S: nm --dynamic is *required* to get symbols from an ELF library which
?S: has been stripped, but nm --dynamic is *fatal* on an archive library.
?S: Maybe Linux should just always set usenm=false.
?S:.
: see if nm is to be used to determine whether a symbol is defined or not
?X: If there is enough inquiries, it might be worth to wait for the nm
?X: extraction. Otherwise, the C compilations might be a better deal.
?X:
?X: Don't bother if we're using GNU libc -- skimo
case "$usenm"
 in
")
 dflt=''
 case "$d_gnulibc" in
 "$define")
  echo " "
  echo "$nm probably won't work on the GNU C Library." >&4
  dflt=n
  ;;
 esac
 case "$dflt" in
 ")
  if $test "$osname" = aix -a ! -f /lib/syscalls.exp; then
   echo " "
   echo "Whoops!  This is an AIX system without /lib/syscalls.exp!" >&4
   echo "'nm' won't be sufficient on this system." >&4
   dflt=n
  fi
  ;;
 esac
 case "$dflt" in
 ")
  if ./gnu; then
   echo " "
```

```
   echo "Hmm...  A GNU system without a GNU C Library?  Weird..." >&4
   dflt=n
  else
   dflt=`$egrep 'inlibc|csym' $rsrc/Configure | wc -l 2>/dev/null`
   if $test $dflt -gt 20; then
    dflt=y
   else
    dflt=n
   fi
  fi
  ;;
 esac
 ;;
*)
 case "$usenm" in
 true|$define) dflt=y;;
 *) dflt=n;;
 esac
 ;;
esac
$cat <<EOM

I can use $nm to extract the symbols from your C libraries. This
is a time consuming task which may generate huge output on the disk (up
to 3 megabytes) but that should make the symbols extraction faster. The
alternative is to skip the
 'nm' extraction part and to compile a small
test program instead to determine whether each symbol is present. If
you have a fast C compiler and/or if your 'nm' output cannot be parsed,
this may be the best solution.

EOM
rp='Shall I use nm to extract C symbols from the libraries?'
. ./myread
case "$ans" in
[Nn]*) usenm=false;;
*) usenm=true;;
esac

?X: Name extraction is to be run if 'nm' usage is wanted and if no -r flag
?X: was provided to configure (in which case we simply re-use the previous
?X: values).
runnm=$usenm
case "$reuseval" in
true) runnm=false;;
esac

: nm options which may be necessary
```

```
case "$nm_opt" in
") if $test -f /mach_boot; then
  nm_opt="  # Mach
 elif $test -d /usr/ccs/lib; then
  nm_opt='-p'  # Solaris (and SunOS?)
 elif $test -f /dgux; then
  nm_opt='-p'  # DG-UX
 elif $test -f /lib64/rld; then
  nm_opt='-p'  # 64-bit Irix
 else
  nm_opt="
 fi;;
esac

?X: nm options which may be necessary for shared libraries but illegal
?X: for archive libraries.  Thank you,
 Linux.
case "$nm_so_opt" in
") case "$osname" in
 *linux*)
  if $nm --help | $grep 'dynamic' > /dev/null 2>&1; then
   nm_so_opt='--dynamic'
  fi
  ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/usenm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ctermid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_ctermid.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_ctermid: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_ctermid:
?S: This variable conditionally defines CTERMID if ctermid() is
?S: available to generate filename for terminal.
?S:.
?C:HAS_CTERMID (CTERMID):
?C: This symbol, if defined, indicates that the ctermid routine is
?C: available to generate filename for terminal.
?C:.
?H:#$d_ctermid
 HAS_CTERMID  /**/
?H:.
?LINT:set d_ctermid
: see if ctermid exists
set ctermid d_ctermid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_ctermid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_mkdir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_mkdir.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:37  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_mkdir: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkdir:
?S: This variable conditionally defines the HAS_MKDIR symbol, which
?S: indicates to the C program that the mkdir() routine is available
?S: to create directories..
?S:.
?C:HAS_MKDIR (MKDIR):
?C: This symbol, if defined, indicates that the mkdir routine is available
?C: to create directories.
  Otherwise you should fork off a new process to
?C: exec /bin/mkdir.
```

```
?C:.
?H:#$d_mkdir HAS_MKDIR  /**/
?H:.
?LINT:set d_mkdir
: see if mkdir exists
set mkdir d_mkdir
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_mkdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ffs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_ffs.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_ffs: Inlibc
?MAKE: -pick add $@ %<
?S:d_ffs:
?S: This variable conditionally defines the HAS_FFS symbol, which
?S: indicates to the C program that the ffs() routine is available
?S: to find the first bit which is set in its integer argument.
?S:.
?C:HAS_FFS:
?C: This symbol, if defined, indicates that the ffs routine is available
?C: to
 find the first bit set in its argument.  If it's not available,
?C: roll your own.
?C:.
?H:#$d_ffs HAS_FFS  /**/
?H:.
?LINT:set d_ffs
: see if ffs exists
set ffs d_ffs
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_ffs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_syscall.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_syscall.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_syscall: Inlibc
?MAKE: -pick add $@ %<
?S:d_syscall:
?S: This variable conditionally defines HAS_SYSCALL if syscall() is
?S: available call arbitrary system calls.
?S:.
?C:HAS_SYSCALL (SYSCALL):
?C: This symbol, if defined, indicates that the syscall routine is
?C: available to call arbitrary system calls. If undefined, that's tough.
?C:.
?H:#$d_syscall
 HAS_SYSCALL /**/
?H:.
?LINT:set d_syscall
: see if syscall exists
set syscall d_syscall
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_syscall.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Tye McQueen <tye@metronet.com>
?RCS:
?RCS: $Log: d_stdstdio.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:46:32  ram
?RCS: patch61: merged with perl5's unit
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  14:06:54  ram
?RCS: patch56: typo fix on ?C: line for FILE_bufsiz
?RCS: patch56: fixed unbalanced parenthesis (ADO)
?RCS: patch56: check whether FILE_cnt and FILE_ptr can be assigned to (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1995/05/12  12:12:11  ram
?RCS: patch54: complete rewrite by Tye McQueen
 to fit modern systems
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_stdstdio d_stdiobase stdio_ptr stdio_cnt stdio_base \
 stdio_bufsiz d_stdio_cnt_lval d_stdio_ptr_lval stdio_filbuf: cat \
 +cc +ccflags contains +ldflags +libs rm_try \
 Setvar Findhdr Oldconfig
?MAKE: -pick add $@ %<
?S:d_stdstdio:
?S: This variable conditionally defines USE_STDIO_PTR if this system
?S: has a FILE structure declaring usable _ptr and _cnt fields (or
?S: equivalent) in stdio.h.
?S:.
?S:stdio_ptr:
?S: This variable defines how, given a FILE pointer, fp, to access the
?S: _ptr field (or equivalent) of stdio.h's FILE structure.  This will
?S: be used to define the macro FILE_ptr(fp).
?S:.
?S:d_stdio_ptr_lval:
?S: This variable conditionally defines STDIO_PTR_LVALUE if the
?S: FILE_ptr macro can be used as an lvalue.
?S:.
?S:stdio_cnt:
?S: This variable defines how, given a FILE pointer, fp, to access the
?S: _cnt field (or equivalent) of
 stdio.h's FILE structure.  This will
?S: be used to define the macro FILE_cnt(fp).
?S:.
?S:d_stdio_cnt_lval:
?S: This variable conditionally defines STDIO_CNT_LVALUE if the
```

```
?S: FILE_cnt macro can be used as an lvalue.
?S:.
?S:stdio_filbuf:
?S: This variable defines how, given a FILE pointer, fp, to tell
?S: stdio to refill it's internal buffers (?).  This will
?S: be used to define the macro FILE_filbuf(fp).
?S:.
?S:d_stdiobase:
?S: This variable conditionally defines USE_STDIO_BASE if this system
?S: has a FILE structure declaring a usable _base field (or equivalent)
?S: in stdio.h.
?S:.
?S:stdio_base:
?S: This variable defines how, given a FILE pointer, fp, to access the
?S: _base field (or equivalent) of stdio.h's FILE structure.  This will
?S: be used to define the macro FILE_base(fp).
?S:.
?S:stdio_bufsiz:
?S: This variable defines how, given a FILE pointer, fp, to determine
?S: the number of bytes store in the I/O buffer pointer to by the
?S: _base field (or equivalent) of stdio.h's
 FILE structure.  This will
?S: be used to define the macro FILE_bufsiz(fp).
?S:.
?C:USE_STDIO_PTR ~ d_stdstdio (USE_STD_STDIO STDSTDIO):
?C: This symbol is defined if the _ptr and _cnt fields (or similar)
?C: of the stdio FILE structure can be used to access the stdio buffer
?C: for a file handle.  If this is defined, then the FILE_ptr(fp)
?C: and FILE_cnt(fp) macros will also be defined and should be used
?C: to access these fields.
?C:.
?C:FILE_ptr:
?C: This macro is used to access the _ptr field (or equivalent) of the
?C: FILE structure pointed to by its argument. This macro will always be
?C: defined if USE_STDIO_PTR is defined.
?C:.
?C:STDIO_PTR_LVALUE:
?C: This symbol is defined if the FILE_ptr macro can be used as an
?C: lvalue.
?C:.
?C:FILE_cnt:
?C: This macro is used to access the _cnt field (or equivalent) of the
?C: FILE structure pointed to by its argument. This macro will always be
?C: defined if USE_STDIO_PTR is defined.
?C:.
?C:STDIO_CNT_LVALUE:
?C: This symbol is defined
```

```
 if the FILE_cnt macro can be used as an
?C: lvalue.
?C:.
?C:FILE_filbuf:
?C: This macro is used to access the internal stdio _filbuf function
?C: (or equivalent), if STDIO_CNT_LVALUE and STDIO_PTR_LVALUE
?C: are defined.  It is typically either _filbuf or __filbuf.
?C: This macro will only be defined if both STDIO_CNT_LVALUE and
?C: STDIO_PTR_LVALUE are defined.
?C:.
?H:?d_stdstdio:#$d_stdstdio USE_STDIO_PTR  /**/
?H:?d_stdstdio:#ifdef USE_STDIO_PTR
?H:#define FILE_ptr(fp) $stdio_ptr
?H:#$d_stdio_ptr_lval STDIO_PTR_LVALUE   /**/
?H:#define FILE_cnt(fp) $stdio_cnt
?H:#$d_stdio_cnt_lval STDIO_CNT_LVALUE   /**/
?H:?d_stdstdio:#if defined(STDIO_PTR_LVALUE) && defined(STDIO_CNT_LVALUE)
?H:#define FILE_filbuf(fp) $stdio_filbuf   /**/
?H:?d_stdstdio:#endif
?H:?d_stdstdio:#endif
?H:.
?W:d_stdstdio:FILE_ptr FILE_cnt FILE_filbuf
?C:USE_STDIO_BASE ~ d_stdiobase:
?C: This symbol is defined if the _base field (or similar) of the
?C: stdio FILE structure can be used to access the stdio buffer
 for
?C: a file handle.  If this is defined, then the FILE_base(fp) macro
?C: will also be defined and should be used to access this field.
?C: Also, the FILE_bufsiz(fp) macro will be defined and should be used
?C: to determine the number of bytes in the buffer.  USE_STDIO_BASE
?C: will never be defined unless USE_STDIO_PTR is.
?C:.
?C:FILE_base:
?C: This macro is used to access the _base field (or equivalent) of the
?C: FILE structure pointed to by its argument. This macro will always be
?C: defined if USE_STDIO_BASE is defined.
?C:.
?C:FILE_bufsiz:
?C: This macro is used to determine the number of bytes in the I/O
?C: buffer pointed to by _base field (or equivalent) of the FILE
?C: structure pointed to its argument. This macro will always be defined
?C: if USE_STDIO_BASE is defined.
?C:.
?H:?d_stdiobase:#$d_stdiobase USE_STDIO_BASE  /**/
?H:?d_stdiobase:#ifdef USE_STDIO_BASE
?H:#define FILE_base(fp) $stdio_base
?H:#define FILE_bufsiz(fp) $stdio_bufsiz
?H:?d_stdiobase:#endif
```

```
?H:.
?W:d_stdiobase:FILE_base
 FILE_bufsiz
?LINT:set d_stdstdio d_stdiobase
?T:ptr_lval cnt_lval filbuf xxx
?F:!try
: see if _ptr and _cnt from stdio act std
echo " "
if $contains '_IO_fpos_t' `./findhdr stdio.h` >/dev/null 2>&1 ; then
 echo "(Looks like you have stdio.h from Linux.)"
 case "$stdio_ptr" in
 '') stdio_ptr='((fp)->_IO_read_ptr)'
  ptr_lval=$define
  ;;
 *) ptr_lval=$d_stdio_ptr_lval;;
 esac
 case "$stdio_cnt" in
 '') stdio_cnt='((fp)->_IO_read_end - (fp)->_IO_read_ptr)'
  cnt_lval=$undef
  ;;
 *) cnt_lval=$d_stdio_cnt_lval;;
 esac
 case "$stdio_base" in
 '') stdio_base='((fp)->_IO_read_base)';;
 esac
 case "$stdio_bufsiz" in
 '') stdio_bufsiz='((fp)->_IO_read_end - (fp)->_IO_read_base)';;
 esac
else
 case "$stdio_ptr" in
 '') stdio_ptr='((fp)->_ptr)'
  ptr_lval=$define
  ;;
 *) ptr_lval=$d_stdio_ptr_lval;;
 esac
 case "$stdio_cnt" in
 '') stdio_cnt='((fp)->_cnt)'
  cnt_lval=$define
  ;;
 *) cnt_lval=$d_stdio_cnt_lval;;
 esac
 case "$stdio_base" in
 '') stdio_base='((fp)->_base)';;
 esac
 case
 "$stdio_bufsiz" in
 '') stdio_bufsiz='((fp)->_cnt + (fp)->_ptr - (fp)->_base)';;
 esac
```

```
fi
: test whether _ptr and _cnt really work
echo "Checking how std your stdio is..." >&4
$cat >try.c <<EOP
#include <stdio.h>
#define FILE_ptr(fp) $stdio_ptr
#define FILE_cnt(fp) $stdio_cnt
int main() {
 FILE *fp = fopen("try.c", "r");
 char c = getc(fp);
 if (
  18 <= FILE_cnt(fp) &&
  strncmp(FILE_ptr(fp), "include <stdio.h>\n", 18) == 0
 )
  exit(0);
 exit(1);
}
EOP
val="$undef"
if $cc $ccflags $ldflags -o try try.c $libs >/dev/null 2>&1; then
 if ./try; then
  echo "Your stdio acts pretty std."
  val="$define"
 else
  echo "Your stdio isn't very std."
 fi
else
 echo "Your stdio doesn't appear very std."
fi
$rm_try
set d_stdstdio
eval $setvar

@if STDIO_PTR_LVALUE || d_stdio_ptr_lval
: Can _ptr be used as an lvalue?
?X: Only makes sense if we have a known stdio implementation.
case "$d_stdstdio$ptr_lval" in
$define$define) val=$define ;;
*) val=$undef ;;
esac
set d_stdio_ptr_lval
eval
 $setvar

@end
@if STDIO_CNT_LVALUE || d_stdio_cnt_lval
: Can _cnt be used as an lvalue?
?X: Only makes sense if we have a known stdio implementation.
```

```
case "$d_stdstdio$cnt_lval" in
$define$define) val=$define ;;
*) val=$undef ;;
esac
set d_stdio_cnt_lval
eval $setvar

@end
@if FILE_filbuf
: How to access the stdio _filbuf or __filbuf function.
: If this fails, check how the getc macro in stdio.h works.
case "${d_stdio_ptr_lval}${d_stdio_cnt_lval}" in
${define}${define})
 : Try hint value, if any, then _filbuf, __filbuf, _fill, then punt.
 : _fill is for OS/2.
 xxx='notok'
 for filbuf in $stdio_filbuf '_filbuf(fp)' '__filbuf(fp) ' '_fill(fp)' ; do
  $cat >try.c <<EOP
#include <stdio.h>
#define FILE_ptr(fp) $stdio_ptr
#define FILE_cnt(fp) $stdio_cnt
#define FILE_filbuf(fp) $filbuf
int main() {
 FILE *fp = fopen("try.c", "r");
 int c;
 c = getc(fp);
 c = FILE_filbuf(fp);  /* Just looking for linker errors.*/
 exit(0);
}
EOP
  if $cc $ccflags $ldflags -o try try.c $libs >/dev/null 2>&1 &&
 ./try; then
   echo "Your stdio appears to use $filbuf"
   stdio_filbuf="$filbuf"
   xxx='ok'
   break
  else
   echo "Hmm.  $filbuf doesn't seem to work."
  fi
  $rm_try
 done
 case "$xxx" in
 notok) echo "I can't figure out how to access _filbuf"
   echo "I'll just have to work around it."
   d_stdio_ptr_lval="$undef"
   d_stdio_cnt_lval="$undef"
   ;;
 esac
```

```
 ;;
esac
@end
@if d_stdiobase || USE_STDIO_BASE || FILE_base || FILE_bufsiz
: see if _base is also standard
val="$undef"
case "$d_stdstdio" in
$define)
 $cat >try.c <<EOP
#include <stdio.h>
#define FILE_base(fp) $stdio_base
#define FILE_bufsiz(fp) $stdio_bufsiz
int main() {
 FILE *fp = fopen("try.c", "r");
 char c = getc(fp);
 if (
  19 <= FILE_bufsiz(fp) &&
  strncmp(FILE_base(fp), "#include <stdio.h>\n", 19) == 0
 )
  exit(0);
 exit(1);
}
EOP
 if $cc $ccflags $ldflags -o try try.c $libs > /dev/null 2>&1; then
  if ./try; then
   echo "And its _base field acts std."
   val="$define"
  else
   echo "But its _base field isn't std."
  fi
 else
  echo
 "However, it seems to be lacking the _base field."
 fi
 $rm_try
 ;;
esac
set d_stdiobase
eval $setvar

@end
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_stdstdio.U
No license file was found, but licenses were detected in source scan.

?RCS: Id

```
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_usleepproto: Hasproto i_unistd
?MAKE: -pick add $@ %<
?S:d_usleepproto:
?S: This variable conditionally defines the HAS_USLEEP_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the usleep() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_USLEEP_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the usleep() function.  Otherwise, it is up
?C: to the program to supply one.  A good guess is
?C:  extern int
 usleep(useconds_t);
?C:.
?H:#$d_usleepproto HAS_USLEEP_PROTO /**/
?H:.
?LINT:set d_usleepproto
: see if prototype for usleep is available
echo " "
set d_usleepproto usleep $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_usleepproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpgrp.U,v 3.0.1.1 1997/02/28 15:34:28 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_getpgrp.U,v $
```

```
?RCS: Revision 3.0.1.1  1997/02/28  15:34:28  ram
?RCS: patch61: new USE_BSD_GETPGRP to detect the getpgrp() flavor
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getpgrp d_bsdgetpgrp: Guess Inlibc Setvar cat rm_try \
 +cc +ccflags +ldflags +libs i_unistd i_stdlib run
?MAKE: -pick add $@ %<
?S:d_getpgrp:
?S: This variable conditionally defines HAS_GETPGRP if getpgrp() is
?S: available
 to get the current process group.
?S:.
?S:d_bsdgetpgrp:
?S: This variable conditionally defines USE_BSD_GETPGRP if
?S: getpgrp needs one arguments whereas USG one needs none.
?S:.
?C:HAS_GETPGRP (GETPGRP):
?C: This symbol, if defined, indicates that the getpgrp routine is
?C: available to get the current process group.
?C:.
?C:USE_BSD_GETPGRP:
?C: This symbol, if defined, indicates that getpgrp needs one
?C: arguments whereas USG one needs none.
?C:.
?H:#$d_getpgrp HAS_GETPGRP  /**/
?H:#$d_bsdgetpgrp USE_BSD_GETPGRP /**/
?H:.
?T:xxx
?F:!try
?LINT:set d_getpgrp d_bsdgetpgrp
: see if getpgrp exists
set getpgrp d_getpgrp
eval $inlibc

@if USE_BSD_GETPGRP || d_bsdgetpgrp
case "$d_getpgrp" in
"$define")
 echo " "
 echo "Checking to see which flavor of getpgrp is in use..."
 $cat >try.c <<EOP
#include <stdio.h>
#$i_unistd I_UNISTD
#include <sys/types.h>
#ifdef I_UNISTD
#  include <unistd.h>
#endif
```

```
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
{
 if (getuid()
 == 0) {
  printf("(I see you are running Configure as super-user...)\n");
  setuid(1);
 }
#ifdef TRY_BSD_PGRP
 if (getpgrp(1) == 0)
  exit(0);
#else
 if (getpgrp() > 0)
  exit(0);
#endif
 exit(1);
}
EOP
 if $cc -o try -DTRY_BSD_PGRP $ccflags $ldflags try.c $libs >/dev/null 2>&1 && $run ./try; then
  echo "You have to use getpgrp(pid) instead of getpgrp()." >&4
  val="$define"
 elif $cc -o try $ccflags $ldflags try.c $libs >/dev/null 2>&1 && $run ./try; then
  echo "You have to use getpgrp() instead of getpgrp(pid)." >&4
  val="$undef"
 else
  echo "I can't seem to compile and run the test program."
  if ./usg; then
   xxx="a USG one, i.e. you use getpgrp()."
  else
   # SVR4 systems can appear rather BSD-ish.
   case "$i_unistd" in
   $undef)
    xxx="a BSD one, i.e. you use getpgrp(pid)."
    val="$define"
    ;;
   $define)
    xxx="probably a USG one, i.e. you use getpgrp()."
    val="$undef"
    ;;
   esac
  fi
  echo "Assuming your getpgrp is $xxx" >&4
 fi
 ;;
*) val="$undef";;
```

```
esac
set
 d_bsdgetpgrp
eval $setvar
$rm_try
@end
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_getpgrp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sgndchr.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:44:25  ram
?RCS: patch61: added a ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  14:00:24  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:16  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sgndchr: cat rm +cc +ccflags Setvar
?MAKE: -pick add $@ %<
?S:d_sgndchr:
?S: This variable conditionally defines the SIGNEDCHAR symbol, which
?S: indicates to the C program
 that signed characters are available.
?S:.
?C:SIGNEDCHAR:
?C: This symbol, if defined, indicates that characters are a signed type.
?C: If not defined, things declared as signed characters (and that make
?C: use of negative values) should probably be declared as shorts instead.
?C:.
?H:#$d_sgndchr SIGNEDCHAR /**/
?H:.
?F:!try
?LINT:set d_sgndchr
```

```
: check for signed chars
echo " "
echo "Checking to see if your C compiler can do signed chars..." >&4
$cat >try.c <<'EOCP'
int main()
{
 char c = 0;

 c--;
 exit(c >= 0);
}
EOCP
$cc $ccflags -o try try.c
if ./try; then
 val="$define"
 echo "It certainly can."
else
 val="$undef"
 echo "It can't.  I'll have to make some things type short."
fi
set d_sgndchr
eval $setvar
$rm -f try*
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sgndchr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2015 Jarkko Hietaniemi, H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:longdblmantbits doublemantbits nvmantbits: Inlibc cat Compile run \
 rm_try Setvar echo i_sunmath usequadmath \
 d_longdbl longdblkind nvsize doublesize longdblsize
?MAKE: -pick add $@ %<
?S:doublemantbits:
?S: This symbol, if defined, tells how many mantissa bits
?S: there are in double precision floating point format.
?S: Note that this is usually DBL_MANT_DIG minus one, since
?S: with the standard IEEE 754 formats DBL_MANT_DIG includes
?S: the implicit bit which doesn't really exist.
?S:.
?S:longdblmantbits:
```

```
?S: This symbol, if defined, tells how many mantissa bits
?S: there are in long double precision floating point format.
?S: Note that this can be LDBL_MANT_DIG minus one,
?S: since
 LDBL_MANT_DIG can include the IEEE 754 implicit bit.
?S: The common x86-style 80-bit long double does not have
?S: an implicit bit.
?S:.
?S:nvmantbits:
?S: This variable tells how many bits the mantissa of a Perl NV has,
?S: not including the possible implicit bit.
?S:.
?C:DOUBLEMANTBITS:
?C: This symbol, if defined, tells how many mantissa bits
?C: there are in double precision floating point format.
?C: Note that this is usually DBL_MANT_DIG minus one, since
?C: with the standard IEEE 754 formats DBL_MANT_DIG includes
?C: the implicit bit, which doesn't really exist.
?C:.
?C:LONGDBLMANTBITS:
?C: This symbol, if defined, tells how many mantissa bits
?C: there are in long double precision floating point format.
?C: Note that this can be LDBL_MANT_DIG minus one,
?C: since LDBL_MANT_DIG can include the IEEE 754 implicit bit.
?C: The common x86-style 80-bit long double does not have
?C: an implicit bit.
?C:.
?C:NVMANTBITS:
?C: This symbol, if defined, tells how many mantissa bits
?C: (not
 including implicit bit) there are in a Perl NV.
?C: This depends on which floating point type was chosen.
?C:.
?H:#define DOUBLEMANTBITS  $doublemantbits
?H:#define LONGDBLMANTBITS $longdblmantbits
?H:#define NVMANTBITS      $nvmantbits
?H:.
?F:!try
: Check the length of the double mantissa
$echo "Checking how many mantissa bits your doubles have..." >&4
$cat >try.c <<EOP
#$i_sunmath I_SUNMATH
#include <float.h>
#ifdef I_SUNMATH
# include <sunmath.h>
#endif
#ifdef DBL_MANT_DIG
# define BITS (DBL_MANT_DIG - 1) /* the implicit bit does not count */
```

```
#endif
#include <stdio.h>
int main(int argc, char *argv[]) {
#ifdef BITS
 printf("%d\n", BITS);
#endif
 return 0;
}
EOP
set try
if eval $compile; then
   doublemantbits=`$run ./try`
else
   doublemantbits="$undef"
fi
$rm_try

: Check the length of the longdouble mantissa
$echo "Checking how many mantissa bits your long doubles have..." >&4
$cat >try.c <<EOP
#$i_sunmath I_SUNMATH
#include <float.h>
#ifdef I_SUNMATH
# include <sunmath.h>
#endif
#$d_longdbl
 HAS_LONG_DOUBLE
#if defined(HAS_LONG_DOUBLE) && defined(LDBL_MANT_DIG)
# if ($longdblkind == 3) || ($longdblkind == 4) /* 80-bit extended precision */
/* This format has no implicit bit.  Beware, however, that for
* this format the bare LDBL_MANT_DIG is misleading for inf/nan:
* the top three bits are used for inf (100) / qnan (11x) / snan (101),
* and the top bit must have been one since 387, zero is plain invalid.
* For normal fp values, the LDBL_MANT_DIG is fine, though. */
#  define BITS LDBL_MANT_DIG
# elif ($longdblkind == 5 || $longdblkind == 6 || $longdblkind == 7 || $longdblkind == 8) /* double double */
/* LDBL_MANT_DIG of 106 (twice 53) would be logical, but for some
* reason e.g. Irix thinks 107.  But in any case, we want only
* the number of real bits, the implicit bits are of no interest.  */
#  define BITS 2 * (DBL_MANT_DIG - 1)
# else
#  define BITS (LDBL_MANT_DIG - 1) /* the implicit bit does not count */
# endif
#endif
#include <stdio.h>
int
 main(int argc, char *argv[]) {
#ifdef BITS
```

```
 printf("%d\n", BITS);
#endif
 return 0;
}
EOP
set try
if eval $compile; then
   longdblmantbits=`$run ./try`
else
   longdblmantbits="$undef"
fi
$rm_try

: Check the length of the NV mantissa
$echo "Checking how many mantissa bits your NVs have..." >&4
if test "X$usequadmath" = "X$define"; then
 nvmantbits=112 # 128-1-15
else
 if test "X$nvsize" = "X$doublesize"; then
   nvmantbits="$doublemantbits"
 else
    if test "X$nvsize" = "X$longdblsize"; then
      nvmantbits="$longdblmantbits"
    else
      nvmantbits="$undef"
    fi
 fi
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/mantbits.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fchdir: Inlibc
?MAKE: -pick add $@ %<
?S:d_fchdir:
?S: This variable conditionally defines the HAS_FCHDIR symbol, which
?S: indicates to the C program that the fchdir() routine is available.
?S:.
?C:HAS_FCHDIR:
```

```
?C: This symbol, if defined, indicates that the fchdir routine is
?C: available to change directory using a file descriptor.
?C:.
?H:#$d_fchdir HAS_FCHDIR  /**/
?H:.
?LINT:set d_fchdir
: see if fchdir exists
set fchdir d_fchdir
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fchdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: alignbytes.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:02:28  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:25:20  ram
?RCS: patch23: avoid ALIGNBYTES, since it conflicts on NetBSD
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:23  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:alignbytes: Assert Myread Trylink cat i_inttypes i_limits i_math
?MAKE: -pick add $@ %<
?S:alignbytes:
?S: This variable holds the number of bytes required
 to align an
?S: arbitrary standard type. Usual values are 2, 4 and 8.
?S:.
?X: This used to be called ALIGNBYTES, but that conflicts with
?X: <machines/param.h> in NetBSD.
?C:MEM_ALIGNBYTES (ALIGNBYTES):
?C: This symbol contains the number of bytes required to align a
?C: double. Usual values are 2, 4 and 8.
?C:.
```

```
?H:#define MEM_ALIGNBYTES $alignbytes /**/
?H:.
?T:alignment result
: check for alignment requirements
echo " "
case "$alignbytes" in
")
 echo "Checking alignment constraints..." >&4

 for alignment in 8 4 2 1 16 32 error
 do
  $cat >try.c <<EOCP
#$i_inttypes I_INTTYPES
#ifdef I_INTTYPES
#include <inttypes.h>
#endif
#$i_limits I_LIMITS
#ifdef I_LIMITS
#include <limits.h>
#endif
#$i_math I_MATH
#ifdef I_MATH
#include <math.h>
#endif

union u {
 void *void_ptr;
 void (*func_ptr)(void);
 char c;
 short s;
 int i;
 long l;
 float f;
 double d;
#ifdef LLONG_MAX
 long long ll;
#else
#warning "LLONG_MAX undefined"
#endif
#if defined(HUGE_VALL)
 long double ld;
#else
#warning
 "HUGE_VALL undefined"
#endif
#ifdef UINT32_MAX
 uint32_t u32;
#else
```

```
#warning "UINT32_MAX undefined"
#endif
#ifdef UINT16_MAX
 uint16_t u16;
#else
#warning "UINT32_MAX undefined"
#endif
#ifdef UINT64_MAX
 uint64_t u64;
#else
#warning "UINT64_MAX undefined"
#endif
#ifdef UINTMAX_MAX
 uintmax_t m;
#else
#warning "UINTMAX_MAX undefined"
#endif
#ifdef UINTPTR_MAX
 uintptr_t up;
#else
#warning "UINTPTR_MAX undefined"
#endif
};

struct s {
 char a;
 union u b;
};

#include "static_assert.h"

int
main(void)
{
 STATIC_ASSERT($alignment == ((sizeof (struct s) - (sizeof (union u)))));
 return 0;
}
EOCP

  result="
  set result
  eval $trylink
  case "$result" in
  "$define") break;;
  esac
 done

 case "$alignment" in
```

```
 error) dflt='8'
  echo "(I can't seem to compile the test program...)" >&4
  ;;
 *) dflt=$alignment
  ;;
 esac
;;
*) dflt="$alignbytes"
 ;;
esac
rp="What is the maximum alignment in bytes required for a standard type?"
. ./myread
alignbytes="$ans"
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/alignbytes.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2005 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_clearenv: Inlibc
?MAKE: -pick add $@ %<
?S:d_clearenv:
?S: This variable conditionally defines the HAS_CLEARENV symbol, which
?S: indicates to the C program that the clearenv () routine is available.
?S:.
?C:HAS_CLEARENV:
?C: This symbol, if defined, indicates that the clearenv () routine is
?C: available for use.
?C:.
?H:#$d_clearenv HAS_CLEARENV  /**/
?H:.
?LINT:set d_clearenv
: see if clearenv exists
set clearenv d_clearenv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_clearenv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2009 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_inetpton: Inlibc
?MAKE: -pick add $@ %<
?S:d_inetpton:
?S: This variable conditionally defines the HAS_INETPTON symbol,
?S: which indicates to the C program that the inet_pton() function
?S: is available.
?S:.
?C:HAS_INETPTON:
?C: This symbol, if defined, indicates that the inet_pton() function
?C: is available to parse IPv4 and IPv6 strings.
?C:.
?H:#$d_inetpton HAS_INETPTON  /**/
?H:.
?LINT:set d_inetpton
: see if inet_pton exists
set inet_pton d_inetpton
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_inetpton.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2016 Dagfinn Ilmari Mannsker & H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X:
?X: This unit produces a variable that is intended to be eval'ed in
?X: order to define/undefine a symbol. A consistency check is made
?X: regarding any previous value and a warning is issued if there
?X: is any discrepancy.
?X:
?X: To use it, say:
?X: set d_siginfo_si_errno siginfo_t int si_errno $d_sigaction signal.h
?X: eval $hasfield_t;
?X:
?MAKE:Hasfield_t: test Compile rm_try Setvar
?MAKE: -pick add $@ %<
?LINT:define hasfield_t
```

```
?S:hasfield_t:
?S: Internal macro for Configure
?S:.
?V:hasfield_t:
?T:varname struct type field
: Define hasfield_t macro for Configure internal use
hasfield_t='varname=$1; struct=$2; type=$3; field=$4; shift; shift; shift; shift;
while $test $# -ge 2; do
   case
 "$1" in
 $define) echo "#include <$2>";;
   esac ;
   shift 2;
done > try.c;
echo "int main () { $struct foo; $type bar = foo.$field; }" >> try.c;
set try;
if eval $compile; then
 val="$define";
else
 val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try'
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/Hasfield_t.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strerror_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_strerror_r strerror_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads extern_C
?MAKE: -pick add $@ %<
?S:d_strerror_r:
?S: This variable conditionally defines the HAS_STRERROR_R symbol,
?S: which indicates to the C program that the strerror_r()
?S: routine is available.
?S:.
?S:strerror_r_proto:
?S: This variable encodes the prototype of strerror_r.
```

```
?S: It is zero if d_strerror_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_strerror_r
?S: is defined.
?S:.
?C:HAS_STRERROR_R:
?C: This symbol, if defined, indicates that the strerror_r routine
?C: is available to strerror
 re-entrantly.
?C:.
?C:STRERROR_R_PROTO:
?C: This symbol encodes the prototype of strerror_r.
?C: It is zero if d_strerror_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_strerror_r
?C: is defined.
?C:.
?H:#$d_strerror_r HAS_STRERROR_R /**/
?H:#define STRERROR_R_PROTO $strerror_r_proto /**/
?H:.
?T:try hdrs d_strerror_r_proto
: see if strerror_r exists
set strerror_r d_strerror_r
eval $inlibc
case "$d_strerror_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h define string.h"
 case "$d_strerror_r_proto:$usethreads" in
 ":define") d_strerror_r_proto=define
  set d_strerror_r_proto strerror_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_strerror_r_proto" in
 define)
 case "$strerror_r_proto" in
 "|0) try='int strerror_r(int, char*, size_t);'
 ./protochk "$extern_C $try" $hdrs && strerror_r_proto=I_IBW ;;
 esac
 case "$strerror_r_proto" in
 "|0) try='int strerror_r(int, char*, int);'
 ./protochk "$extern_C $try" $hdrs && strerror_r_proto=I_IBI
 ;;
 esac
 case "$strerror_r_proto" in
 "|0) try='char* strerror_r(int, char*, size_t);'
 ./protochk "$extern_C $try" $hdrs && strerror_r_proto=B_IBW ;;
 esac
 case "$strerror_r_proto" in
 "|0) d_strerror_r=undef
```

```
  strerror_r_proto=0
  echo "Disabling strerror_r, cannot determine prototype." >&4 ;;
 * ) case "$strerror_r_proto" in
  REENTRANT_PROTO*) ;;
  *) strerror_r_proto="REENTRANT_PROTO_$strerror_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "strerror_r has no prototype, not using it." >&4 ;;
  esac
  d_strerror_r=undef
  strerror_r_proto=0
  ;;
 esac
 ;;
*) strerror_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_strerror_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_inetaton.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Spider Boardman
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_inetaton.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:36:35  ram
?RCS: patch61: created
?RCS:
?MAKE:d_inetaton: Inlibc
?MAKE: -pick add $@ %<
?S:d_inetaton:
?S: This variable conditionally defines the HAS_INET_ATON symbol, which
?S: indicates to the C program that the inet_aton() function is available
?S: to parse IP address "dotted-quad" strings.
?S:.
```

```
?C:HAS_INET_ATON:
?C: This symbol, if defined, indicates
 to the C program that the
?C: inet_aton() function is available to parse IP address "dotted-quad"
?C: strings.
?C:.
?H:#$d_inetaton HAS_INET_ATON  /**/
?H:.
?LINT:set d_inetaton
: check whether inet_aton exists
set inet_aton d_inetaton
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_inetaton.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sitelib.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:21:35  ram
?RCS: patch61: created
?RCS:
?MAKE:sitelib sitelibexp installsitelib: afs cat Getfile \
 Oldconfig Prefixit test privlib package sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:sitelib:
?S: This variable contains the eventual value of the SITELIB symbol,
?S: which is the name of the private library for this package.  It may
?S: have a ~ on the front. It is up to the makefile to eventually create
?S: this
 directory while performing installation (with ~ substitution).
?S:.
?S:sitelibexp:
?S: This variable is the ~name expanded version of sitelib, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
```

```
?S:installsitelib:
?S: This variable is really the same as sitelibexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?C:SITELIB:
?C: This symbol contains the name of the private library for this package.
?C: The library is private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.  The program
?C: should be prepared to do ~ expansion.
?C: The standard distribution will put nothing in this directory.
?C: Individual sites may place their own extensions and modules in
?C: this directory.
?C:.
?C:SITELIB_EXP:
?C: This symbol contains the ~name expanded version of SITELIB, to be used
?C: in programs that are not prepared to deal with ~ expansion
 at run-time.
?C:.
?H:#define SITELIB "$sitelib"  /**/
?H:#define SITELIB_EXP "$sitelibexp"  /**/
?H:.
?T:prog
: determine where site specific libraries go.
set sitelib sitelib
eval $prefixit
case "$sitelib" in
")
?X: remove any trailing -3.0 or other version indentification
 prog=`echo $package | $sed 's/-*[0-9.]*$//'`
 dflt="$privlib/site_$prog" ;;
*) dflt="$sitelib" ;;
esac
$cat <<EOM

The installation process will also create a directory for
site-specific extensions and modules.  Some users find it convenient
to place all local files in this directory rather than in the main
distribution directory.

EOM
fn=d~+
rp='Pathname for the site-specific library files?'
. ./getfile
if $test "X$sitelibexp" != "X$ansexp"; then
 installsitelib=''
fi
sitelib="$ans"
```

```
sitelibexp="$ansexp"
if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
private files reside from the directory in which they are installed (and from
which they are presumably copied to
 the former directory by occult means).

EOM
 case "$installsitelib" in
 ") dflt=`echo $sitelibexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installsitelib";;
 esac
 fn=de~
 rp='Where will private files be installed?'
 . ./getfile
 installsitelib="$ans"
else
 installsitelib="$sitelibexp"
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/sitelib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_ieeefp.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_ieeefp: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_ieeefp:
?S: This variable conditionally defines the I_IEEEFP symbol, and indicates
?S: whether a C program should include <ieeefp.h>.
?S:.
?C:I_IEEEFP:
?C: This symbol, if defined, indicates that <ieeefp.h> exists and
?C: should be included.
?C:.
?H:#$i_ieeefp I_IEEEFP  /**/
?H:.
?LINT:set i_ieeefp
: see if this is a ieeefp.h system
```

```
case "$i_ieeefp" in
" ) set ieeefp.h i_ieeefp
    eval $inhdr
    ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_ieeefp.U
No license file was found, but licenses were detected in source scan.

```
# $Id: errnolist.sh,v 3.0.1.1 1994/01/24 14:00:00 ram Exp ram $
#
#  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
#
#  You may redistribute only under the terms of the Artistic Licence,
#  as specified in the README file that comes with the distribution.
#  You may reuse parts of this distribution only within the terms of
#  that same Artistic Licence; a copy of which may be found at the root
#  of the source tree for dist 4.0.
#
# Original Author: Harlan Stenn <harlan@mumps.pfcs.com>
#
# $Log: errnolist.sh,v $
# Revision 3.0.1.1  1994/01/24  14:00:00  ram
# patch16: changed top ln-style config.sh lookup into test-style one
#
# Revision 3.0  1993/08/18  12:04:36  ram
# Baseline for dist 3.0 netwide release.
#

case $CONFIG in
")
 if test -f config.sh; then TOP=.;
 elif test -f ../config.sh; then TOP=..;
 elif test -f ../../config.sh; then TOP=../..;
 elif test -f ../../../config.sh; then TOP=../../..;
 elif
 test -f ../../../../config.sh; then TOP=../../../..;
 else
  echo "Can't find config.sh."; exit 1
 fi
 . $TOP/config.sh
 ;;
esac
case "$0" in
*/*) cd `expr X$0 : 'X\(.*\)/'` ;;
esac
```

```
case "$errnolistc" in
") ;;
*)
 echo "Making $errnolistc ..."
 awk -f errnolist.a < /usr/include/sys/errno.h > $errnolistc
 echo "It would be a good idea to make sure that $errnolistc is correct."
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/lib/errnolist.SH
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strerror.U,v 3.0.1.3 1994/05/13 15:20:27 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_strerror.U,v $
?RCS: Revision 3.0.1.3  1994/05/13  15:20:27  ram
?RCS: patch27: now uses new macro support for cleaner Strerror def
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  14:58:26  ram
?RCS: patch23: renamed strerror into Strerror to protect name space (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:08:56  ram
?RCS: patch16: protected code looking for sys_errnolist[] with @if
?RCS: patch16: added default value for d_sysernlst
?RCS:
?RCS: Revision
 3.0  1993/08/18  12:07:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_syserrlst d_sysernlst: Csym Findhdr
?MAKE: -pick add $@ %<
?S:d_syserrlst:
?S: This variable conditionally defines HAS_SYS_ERRLIST if sys_errlist[] is
?S: available to translate error numbers to strings.
?S:.
?S:d_sysernlst:
?S: This variable conditionally defines HAS_SYS_ERRNOLIST if sys_errnolist[]
?S: is available to translate error numbers to the symbolic name.
?S:.
```

```
?C:HAS_SYS_ERRLIST (SYSERRLIST):
?C: This symbol, if defined, indicates that the sys_errlist array is
?C: available to translate error numbers to strings. The extern int
?C: sys_nerr gives the size of that table.
?C:.
?C:HAS_SYS_ERRNOLIST (SYSERRNOLIST):
?C: This symbol, if defined, indicates that the sys_errnolist array is
?C: available to translate an errno code into its symbolic name (e.g.
?C: ENOENT). The extern int sys_nerrno gives the size of that table.
?C:.
?H:#$d_syserrlst HAS_SYS_ERRLIST /**/
?H:#$d_sysernlst HAS_SYS_ERRNOLIST /**/
?H:.
?D:d_sysernlst="
?T:val
:
 see if sys_errlist[] exists
echo " "
if test "X$d_syserrlst" = X; then
 if set sys_errlist val -a d_syserrlst; eval $csym; $val; then
  echo "You have sys_errlist[], so we could roll our own strerror."
  d_syserrlst="$define"
 else
  echo "You don't have sys_errlist[], so strerror() is welcome."
  d_syserrlst="$undef"
 fi
fi
@if d_sysernlst || HAS_SYS_ERRNOLIST
if set sys_errnolist val -a d_sysernlst; eval $csym; $val; then
 echo "(Symbolic error codes can be fetched via the sys_errnolist[] array.)"
 d_sysernlst="$define"
else
 echo "(However, I can't extract the symbolic error code out of errno.)"
 d_sysernlst="$undef"
fi
@end
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_strerror.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: spitshell.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: spitshell.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  16:22:12  ram
?RCS: patch61: removed useless chatter as this is now done very early
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:37:01  ram
?RCS: patch45: use 'test -f' instead of 'test -r' for exec-only cat progs (WED)
?RCS: patch45: protected "sh -c" within backquotes for Linux and SGI
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:33:00  ram
?RCS: patch32: don't create spitshell under the UU directory
?RCS:
 patch32: allow for cat in /bin or /usr/bin
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:12:58  ram
?RCS: patch10: made #!-failure message more friendly (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:49  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:spitshell shsharp sharpbang: eunicefix sh Head
?MAKE: -pick add $@ %<
?S:spitshell:
?S: This variable contains the command necessary to spit out a runnable
?S: shell on this system.  It is either cat or a grep -v for # comments.
?S:.
?S:shsharp:
?S: This variable tells further Configure units whether your sh can
?S: handle # comments.
?S:.
?S:sharpbang:
?S: This variable contains the string #! if this system supports that
?S: construct.
?S:.
?F:!sharp
?T:xcat p
?X: "paths" comes from Head
?LINT:extern paths _exe
: see if sh knows # comments
?X: This is loaded up early, so avoid being chatty.
?X: echo " "
?X: echo "Checking your $sh to see if it knows about # comments..." >&2
if `$sh -c '#' >/dev/null 2>&1`; then
?X: echo
```

```
 "Your $sh handles # comments correctly."
 shsharp=true
 spitshell=cat
?X: echo " "
?X: echo "Okay, let's see if #! works on this system..."
 xcat=/bin/cat
 test -f $xcat$_exe || xcat=/usr/bin/cat
 if test ! -f $xcat$_exe; then
  for p in `echo $PATH | sed -e "s/$p_/ /g"` $paths; do
   if test -f $p/cat$_exe; then
    xcat=$p/cat
    break
   fi
  done
  if test ! -f $xcat$_exe; then
   echo "Can't find cat anywhere!"
   exit 1
  fi
 fi
 echo "#!$xcat" >sharp
 $eunicefix sharp
 chmod +x sharp
 ./sharp > today 2>/dev/null
 if test -s today; then
?X:  echo "It does."
  sharpbang='#!'
 else
  echo "#! $xcat" > sharp
  $eunicefix sharp
  chmod +x sharp
  ./sharp > today 2>/dev/null
  if test -s today; then
?X:   echo "It does."
   sharpbang='#! '
  else
?X:   echo "Okay, let's see if #! works on this system..."
?X:   echo "It's just a comment."
   sharpbang=': use '
  fi
 fi
else
 echo " "
 echo "Your $sh doesn't grok # comments--I will strip them later on."
 shsharp=false
?X: The
 spitshell script will be perused, so leave it out the UU directory
 cd ..
 echo "exec grep -v '^[  ]*#'" >spitshell
```

```
 chmod +x spitshell
 $eunicefix spitshell
 spitshell=`pwd`/spitshell
 cd UU
 echo "I presume that if # doesn't work, #! won't work either!"
 sharpbang=': use '
fi
rm -f sharp today
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/spitshell.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: startperl.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:25:06  ram
?RCS: patch61: warn them if the #! line is too long for their OS
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:startperl: cat rm sharpbang perlpath d_portable Myread
?MAKE: -pick add $@ %<
?S:startperl:
?S: This variable contains the string to put on the front of a perl
?S: script to make sure (hopefully) that it runs with perl and not some
?S: shell. Of course, that
 leading line must be followed by the classical
?S: perl idiom:
?S:  eval 'exec perl -S $0 ${1+"$@"}'
?S:   if $running_under_some_shell;
?S: to guarantee perl startup should the shell execute the script. Note
?S: that this magic incantation is not understood by csh.
?S:.
?C:STARTPERL:
?C: This symbol is the string that should be put on the front of a
?C: perl script to make sure (hopefully) that it runs with perl and
?C: not under some shell. That line should be followed by the classical
```

```
?C: invocation magic:
?C:  eval 'exec perl -S $0 ${1+"$@"}'
?C:   if $running_under_some_shell;
?C: to guarantee perl startup should the shell execute the script at first.
?C:.
?H:#define STARTPERL "$startperl"
?H:.
?T:pdflt
?F:!xtry
: figure out how to guarantee perl startup
case "$sharpbang" in
*!)
?X:
?X: Make sure the #!$perlpath magic incantation indeed works on this
?X: system... It might not if the length of the #! hook is greater
?X: than some hardwired kernel limit. -- RAM, 15/03/96
?X:
 $cat
 >xtry <<EOP
#!$perlpath
system("exit 0");
EOP
 chmod a+x xtry
 if ./xtry >/dev/null 2>&1; then
  $cat <<EOH

I can use the #! construct to start perl on your system. This will make
startup of perl scripts faster, but may cause problems if you want to share
those scripts and perl is not in a standard place (/usr/bin/perl) on all your
platforms. The alternative is to force a shell by starting the script with a
single ':' character.

EOH
  pdflt=y
 else
  $cat <<EOH

I could use the #! construct to start perl on your system, but using
   #!$perlpath
would be too long for your kernel to grok. Indeed, most systems do
limit the size of the leading #! string to 32 characters.

EOH
  pdflt=n
 fi
 $rm -f xtry
 case "$startperl" in
 *!*) dflt=y;;
```

```
 ") case "$d_portable" in
  "$define") dflt=n;;
  *) dflt=$pdflt;;
  esac;;
 *) dflt=n;;
 esac
 rp='Shall I use #! to start up perl?'
 . ./myread
 case "$ans" in
 y*|Y*) startperl="#!$perlpath";;
 *) startperl=": # use perl";;
 esac;;
*) startperl=":
 # use perl";;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/startperl.U
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```
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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtoull: Inlibc d_longlong Compile cat run
?MAKE: -pick add $@ %<
?S:d_strtoull:
?S: This variable conditionally defines the HAS_STRTOULL symbol, which
?S: indicates to the C program that the strtoull() routine is available.
?S:.
?C:HAS_STRTOULL:
?C: This symbol, if defined, indicates that the strtoull routine is
?C: available to convert strings to unsigned long longs.
?C:.
?H:#$d_strtoull HAS_STRTOULL  /**/
?H:.
?F:!try
: see if strtoull exists
set strtoull d_strtoull
eval $inlibc

case "$d_longlong-$d_strtoull" in
"$define-$define")
 $cat <<EOM
```

```
Checking whether your strtoull() works okay...
EOM
 $cat >try.c <<'EOCP'
#include <stdlib.h>
#include <errno.h>
#ifdef __hpux
#define strtoull __strtoull
#endif
#include
 <stdio.h>
static int bad = 0;
void check(const char *s, long long eull, int een) {
 long long gull;
 errno = 0;
 gull = strtoull(s, 0, 10);
 if (!((gull == eull) && (errno == een)))
  bad++;
}
int main() {
 check(" 1",                                  1LL, 0);
 check(" 0",                                  0LL, 0);
 check("18446744073709551615",  18446744073709551615ULL, 0);
 check("18446744073709551616",  18446744073709551615ULL, ERANGE);
#if 0 /* strtoull() for /^-/ strings is undefined. */
 check("-1",                  18446744073709551615ULL, 0);
 check("-18446744073709551614",                    2LL, 0);
 check("-18446744073709551615",                    1LL, 0);
 check("-18446744073709551616", 18446744073709551615ULL, ERANGE);
 check("-18446744073709551617", 18446744073709551615ULL, ERANGE);
#endif
 if (!bad)
  printf("ok\n");
}
EOCP
 set try
 if eval $compile; then
  case "`$run ./try`" in
  ok) echo "Your strtoull() seems to be working okay."
 ;;
  *) cat <<EOM >&4
Your strtoull() doesn't seem to be working okay.
EOM
     d_strtoull="$undef"
     ;;
  esac
 else
  echo "(I can't seem to compile the test program--assuming it doesn't)"
  d_strtoull="$undef"
```

```
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strtoull.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: nis.U,v 3.0.1.3 1997/02/28 16:17:38 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: nis.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:17:38  ram
?RCS: patch61: ensure suitable defaults for hostcat and friends
?RCS:
?RCS: Revision 3.0.1.2  1995/03/21  08:48:34  ram
?RCS: patch52: continued fix for NeXT NIS/NetInfo handling
?RCS:
?RCS: Revision 3.0.1.1  1995/02/15  14:16:23  ram
?RCS: patch51: now correctly handles NeXT using NIS rather than NetInfo
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:passcat
 groupcat hostcat: Myread Oldconfig test contains
?MAKE: -pick add $@ %<
?S:passcat:
?S: This variable contains a command that produces the text of the
?S: /etc/passwd file.  This is normally "cat /etc/passwd", but can be
?S: "ypcat passwd" when NIS is used.
?S: On some systems, such as os390, there may be no equivalent
?S: command, in which case this variable is unset.
?S:.
?S:groupcat:
?S: This variable contains a command that produces the text of the
?S: /etc/group file.  This is normally "cat /etc/group", but can be
?S: "ypcat group" when NIS is used.
?S: On some systems, such as os390, there may be no equivalent
?S: command, in which case this variable is unset.
```

```
?S:.
?S:hostcat:
?S: This variable contains a command that produces the text of the
?S: /etc/hosts file.  This is normally "cat /etc/hosts", but can be
?S: "ypcat hosts" when NIS is used.
?S: On some systems, such as os390, there may be no equivalent
?S: command, in which case this variable is unset.
?S:.
:
 see if we have to deal with yellow pages, now NIS.
?X: NeXT gives us some fun here, as always, by having both NIS (former YP)
?X: and NetInfo. But since it has both, it's ok to put the test inside the if.
?X: Contributed by Thomas Neumann <tom@smart.bo.open.de>.
if $test -d /usr/etc/yp || $test -d /etc/yp || $test -d /usr/lib/yp; then
@if passcat || groupcat
 case "$passcat" in
 nidump*) ;;
 *)
  case "$passcat" in
  *ypcat*) dflt=y;;
  ") if $contains '^\+' /etc/passwd >/dev/null 2>&1; then
    dflt=y
   else
    dflt=n
   fi;;
  *) dflt=n;;
  esac
  echo " "
  rp='Are you getting the passwd file via yellow pages?'
  . ./myread
  case "$ans" in
  y*) passcat='ypcat passwd'
@if groupcat
   echo "(Assuming /etc/group is also distributed.)"
   groupcat='ypcat group'
@end
   ;;
  *) passcat='cat /etc/passwd'
@if groupcat
   echo "(Assuming /etc/group is also local.)"
   groupcat='cat /etc/group'
@end
   ;;
  esac
  ;;
 esac
@end
@if hostcat
```

```
 case "$hostcat" in
 nidump*) ;;
 *)
  case
 "$hostcat" in
  *ypcat*) dflt=y;;
  ") if $contains '^\+' /etc/passwd >/dev/null 2>&1; then
    dflt=y
   else
    dflt=n
   fi;;
  *) dflt=n;;
  esac
  echo " "
  rp='Are you getting the hosts file via yellow pages?'
  . ./myread
  case "$ans" in
  y*) hostcat='ypcat hosts';;
  *) hostcat='cat /etc/hosts';;
  esac
  ;;
 esac
@end
fi
?X: Ensure suitable default -- Manoj Srivastava
case "$hostcat" in
") test -f /etc/hosts && hostcat='cat /etc/hosts';;
esac
case "$groupcat" in
") test -f /etc/group && groupcat='cat /etc/group';;
esac
case "$passcat" in
") test -f /etc/passwd && passcat='cat /etc/passwd';;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/nis.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: ptrsize.U,v 3.0.1.1 1994/10/29 16:28:19 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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```

```
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: ptrsize.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:28:19  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:37  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:ptrsize: cat rm_try Myread Compile run use64bitall i_stdlib d_quad
?MAKE: -pick add $@ %<
?S:ptrsize:
?S: This variable contains the value of the PTRSIZE symbol, which
?S: indicates to the C program how many bytes there are in a pointer.
?S:.
?C:PTRSIZE:
?C: This
 symbol contains the size of a pointer, so that the C preprocessor
?C: can make decisions based on it.  It will be sizeof(void *) if
?C: the compiler supports (void *); otherwise it will be
?C: sizeof(char *).
?C:.
?H:#define PTRSIZE $ptrsize  /**/
?H:.
?F:!try
?LINT:extern use64bitint
: check for length of pointer
echo " "
case "$ptrsize" in
")
 echo "Checking to see how big your pointers are..." >&4
 $cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
{
   printf("%d\n", (int)sizeof(void *));
   exit(0);
}
EOCP
 set try
 if eval $compile_ok; then
  ptrsize=`$run ./try`
  echo "Your pointers are $ptrsize bytes long."
 else
```

```
  dflt='4'
  echo "(I can't seem to compile the test program.  Guessing...)" >&4
  rp="What is the size of a pointer (in bytes)?"
  . ./myread
  ptrsize="$ans"
 fi
 ;;
esac
$rm_try
case "$use64bitall" in
"$define"|true|[yY]*)
 case "$ptrsize" in
 4) cat <<EOM >&4

*** You
 have chosen a maximally 64-bit build,
*** but your pointers are only 4 bytes wide.
*** Please rerun Configure without -Duse64bitall.
EOM
  case "$d_quad" in
  define)
   cat <<EOM >&4
*** Since you have quads, you could possibly try with -Duse64bitint.
EOM
   ;;
  esac
  cat <<EOM >&4
*** Cannot continue, aborting.

EOM

  exit 1
  ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/ptrsize.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_internet.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_internet.U,v $
?RCS: Revision 3.0.1.1  1993/09/13  16:02:04  ram
?RCS: patch10: most mailers support Internet addresses nowadays (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_internet: Myread Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_internet:
?S: This variable conditionally defines the INTERNET symbol, which
?S: indicates to the C program that there is a mailer available
 which
?S: supports internet-style addresses (user@site.domain).
?S:.
?C:INTERNET:
?C: This symbol, if defined, indicates that there is a mailer available
?C: which supports internet-style addresses (user@site.domain).
?C:.
?H:#$d_internet INTERNET /**/
?H:.
?LINT:set d_internet
: check for internet mailer
dflt=y
case "$d_internet" in
"$undef") dflt=n;;
esac
cat <<EOM

Most mailers can deliver mail to addresses of the INTERNET persuasion,
such as user@host.edu.  Some older mailers, however, require the complete
path to the destination to be specified in the address.

EOM
rp="Does your mailer understand INTERNET addresses?"
. ./myread
case "$ans" in
y*) val="$define";;
*)  val="$undef";;
esac
set d_internet
eval $setvar

Found in path(s):
```

* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_internet.U
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```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_dbminitproto: Hasproto i_dbm
?MAKE: -pick add $@ %<
?S:d_dbminitproto:
?S: This variable conditionally defines the HAS_DBMINIT_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the dbminit() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_DBMINIT_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the dbminit() function.  Otherwise, it is up
?C: to the program to supply one.  A good guess is
?C:  extern
 int dbminit(char *);
?C:.
?H:#$d_dbminitproto HAS_DBMINIT_PROTO /**/
?H:.
?LINT:set d_dbminitproto
: see if prototype for dbminit is available
echo " "
set d_dbminitproto dbminit $i_dbm dbm.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_dbminitproto.U
No license file was found, but licenses were detected in source scan.

```
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```

```
?RCS:
?MAKE:d_getmnt: Inlibc
?MAKE: -pick add $@ %<
?S:d_getmnt:
?S: This variable conditionally defines the HAS_GETMNT symbol, which
?S: indicates to the C program that the getmnt() routine is available
?S: to retrieve one or more mount info blocks by filename.
?S:.
?C:HAS_GETMNT:
?C: This symbol, if defined, indicates that the getmnt routine is
?C: available to get filesystem mount info by filename.
?C:.
?H:#$d_getmnt HAS_GETMNT  /**/
?H:.
?LINT:set d_getmnt
: see if getmnt exists
set getmnt d_getmnt
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_getmnt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Guess.U,v $
?RCS: Revision 3.0.1.5  1995/07/25  13:37:14  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  15:53:55  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: call ./xenix explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.3  1993/12/15  08:14:35  ram
?RCS: patch15: variable d_bsd was not always set properly
?RCS:
?RCS: Revision 3.0.1.2  1993/08/30  08:57:14  ram
?RCS: patch8: fixed comment which wrongly
```

```
 attributed the usrinc symbol
?RCS: patch8: no more ugly messages when no /usr/include/ctype.h
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:37:37  ram
?RCS: patch7: added support for OSF/1 machines
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit hazards some guesses as to what the general nature of the system
?X: is.  The information it collects here is used primarily to establish default
?X: answers to other questions.
?X:
?MAKE:Guess d_eunice d_xenix d_bsd d_linux d_dos d_os2: cat test echo n c \
 contains rm tr Loc eunicefix
?MAKE: -pick add $@ %<
?S:d_eunice:
?S: This variable conditionally defines the symbols EUNICE_SYSTEM, which
?S: alerts the C program that it must deal with ideosyncracies of VMS.
?S:.
?S:d_xenix:
?S: This variable conditionally defines the symbol XENIX_SYSTEM, which alerts
?S: the C program that it runs under Xenix.
?S:.
?S:d_dos:
?S: This symbol conditionally defines the symbol DOS_SYSTEM
 when running on
?S: DOS with DJGPP or Cygwin.
?S:.
?S:d_os2:
?S: This symbol conditionally defines the symbol OS2_SYSTEM when running on
?S: an OS/2 system.
?S:.
?S:d_bsd:
?S: This symbol conditionally defines the symbol BSD_SYSTEM when running on a
?S: BSD system.
?S:.
?S:d_linux:
?S: This symbol conditionally defines the symbol LINUX_SYSTEM when running
?S: on a Linux system.
?S:.
?C:EUNICE_SYSTEM (EUNICE):
?C: This symbol, if defined, indicates that the program is being compiled
?C: under the EUNICE package under VMS.  The program will need to handle
?C: things like files that don't go away the first time you unlink them,
?C: due to version numbering.  It will also need to compensate for lack
?C: of a respectable link() command.
```

```
?C:.
?C:VMS_SYSTEM (VMS):
?C: This symbol, if defined, indicates that the program is running under
?C: VMS.  It is currently only set in conjunction with the EUNICE symbol.
?C:.
?C:XENIX_SYSTEM (XENIX):
?C: This symbol, if defined, indicates that the program
 is running under
?C: Xenix (at least 3.0 ?).
?C:.
?C:DOS_SYSTEM:
?C: This symbol, if defined, indicates that the program is running under
?C: DOS with DJGPP.
?C:.
?C:OS2_SYSTEM:
?C: This symbol, if defined, indicates that the program is running under
?C: an OS/2 system.
?C:.
?C:BSD_SYSTEM:
?C: This symbol, if defined, indicates that the program is running under
?C: a BSD system.
?C:.
?C:LINUX_SYSTEM:
?C: This symbol, if defined, indicates that the program is running under
?C: a Linux system.
?C:.
?H:#$d_eunice EUNICE_SYSTEM  /**/
?H:#$d_eunice VMS_SYSTEM  /**/
?H:#$d_xenix XENIX_SYSTEM  /**/
?H:#$d_dos DOS_SYSTEM  /**/
?H:#$d_os2 OS2_SYSTEM  /**/
?H:#$d_bsd BSD_SYSTEM  /**/
?H:#$d_linux LINUX_SYSTEM  /**/
?H:.
?F:./bsd ./usg ./v7 ./osf1 ./eunice ./xenix ./venix ./dos ./os2 ./gnu ./linux
?T:xxx DJGPP MACHTYPE
: make some quick guesses about what we are up against
echo " "
$echo $n "Hmm...  $c"
echo exit 1 >bsd
echo exit 1 >usg
echo exit 1 >v7
echo exit 1 >osf1
echo exit 1 >eunice
echo
 exit 1 >xenix
echo exit 1 >venix
echo exit 1 >os2
```

```
echo exit 1 >gnu
echo exit 1 >linux
echo exit 1 >dos
d_bsd="$undef"
d_linux="$undef"
d_dos="$undef"
d_os2="$undef"
?X:
?X: Do not use 'usrinc', or we get a circular dependency. because
?X: usrinc is defined in usrinc.U, which relies on us...
?X:
$cat /usr/include/signal.h /usr/include/sys/signal.h >foo 2>/dev/null
if test -f /osf_boot || $contains 'OSF/1' /usr/include/ctype.h >/dev/null 2>&1
then
 echo "Looks kind of like an OSF/1 system, but we'll see..."
 echo exit 0 >osf1
elif test `echo abc | $tr a-z A-Z` = Abc ; then
 xxx=`./loc addbib blurfl $pth`
 if $test -f $xxx; then
 echo "Looks kind of like a USG system with BSD features, but we'll see..."
  echo exit 0 >bsd
  echo exit 0 >usg
 else
  if $contains SIGTSTP foo >/dev/null 2>&1 ; then
   echo "Looks kind of like an extended USG system, but we'll see..."
  else
   echo "Looks kind of like a USG system, but we'll see..."
  fi
  echo exit 0 >usg
 fi
elif $contains SIGTSTP foo >/dev/null
 2>&1 ; then
 echo "Looks kind of like a BSD system, but we'll see..."
 d_bsd="$define"
 echo exit 0 >bsd
elif
 $rm --version 2>/dev/null >foo;
 $contains "Free Software Foundation" foo >/dev/null
then
 xxx=`uname`
 echo exit 0 >gnu
 echo "Looks kind of like a GNU/$xxx system, but we'll see..."
 if $test X$xxx = XLinux; then
  d_linux="$define"
  echo exit 0 >linux
 fi
else
 echo "Looks kind of like a Version 7 system, but we'll see..."
```

```
 echo exit 0 >v7
fi
case "$eunicefix" in
*unixtovms*)
 $cat <<'EOI'
There is, however, a strange, musty smell in the air that reminds me of
something...hmm...yes...I've got it...there's a VMS nearby, or I'm a Blit.
EOI
 echo exit 0 >eunice
 d_eunice="$define"
: it so happens the Eunice I know will not run shell scripts in Unix format
 ;;
*)
 echo " "
 echo "Congratulations.  You aren't running Eunice."
 d_eunice="$undef"
 ;;
esac
case "$p_" in
:) ;;
*)
 $cat <<'EOI'
I have the feeling something is not exactly right, however...don't tell me...
EOI
 if
 test -n "$DJGPP"; then
  case "X${MACHTYPE:-nonesuchmach}" in
  cygwin) echo "hah!... you're running under Cygwin!";;
  *) echo "got it... you're running DOS with DJGPP!";;
  esac
  echo exit 0 >dos
  d_dos="$define"
 else
  $cat <<'EOI'
lemme think...does HAL ring a bell?...no, of course, you're only running OS/2!
EOI
  echo exit 0 >os2
  d_os2="$define"
 fi
 ;;
esac
if test -f /xenix; then
 echo "Actually, this looks more like a XENIX system..."
 echo exit 0 >xenix
 d_xenix="$define"
else
 echo " "
 echo "It's not Xenix..."
```

```
 d_xenix="$undef"
fi
chmod +x xenix
$eunicefix xenix
if test -f /venix; then
 echo "Actually, this looks more like a VENIX system..."
 echo exit 0 >venix
else
 echo " "
 if ./xenix; then
  : null
 else
  echo "Nor is it Venix..."
 fi
fi
chmod +x bsd usg v7 osf1 eunice xenix venix dos os2 gnu linux
$eunicefix bsd usg v7 osf1 eunice xenix venix dos os2 gnu linux
$rm -f foo
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Guess.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_locale.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_locale.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:48:23  ram
?RCS: patch61: created
?RCS:
?MAKE:i_locale: Inhdr
?MAKE: -pick add $@ %<
?S:i_locale:
?S: This variable conditionally defines the I_LOCALE symbol,
?S: and indicates whether a C program should include <locale.h>.
?S:.
?C:I_LOCALE:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <locale.h>.
```

```
?C:.
?H:#$i_locale I_LOCALE  /**/
?H:.
?LINT:set
 i_locale
: see if locale.h is available
set locale.h i_locale
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_locale.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: cpp_stuff.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cpp_stuff.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:08:24  ram
?RCS: patch36: now uses cppstdin instead of plain cpp for consistency (ADO)
?RCS: patch36: remove temporary files when done
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:36  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:cpp_stuff: cat contains cppstdin cppflags cppminus rm
?MAKE: -pick add $@ %<
?S:cpp_stuff:
?S: This variable contains an identification of the concatenation
 mechanism
?S: used by the C preprocessor.
?S:.
?C:CAT2:
?C: This macro concatenates 2 tokens together.
?C:.
?C:CAT3:
?C: This macro concatenates 3 tokens together.
?C:.
?C:CAT4:
?C: This macro concatenates 4 tokens together.
?C:.
```

```
?C:CAT5:
?C: This macro concatenates 5 tokens together.
?C:.
?C:STRINGIFY:
?C: This macro surrounds its token with double quotes.
?C:.
?C:SCAT2:
?C: This macro concatenates 2 tokens together and stringifies the result.
?C: It might not exist, so #ifdef it in your code!
?C:.
?C:SCAT3:
?C: This macro concatenates 3 tokens together and stringifies the result.
?C: It might not exist, so #ifdef it in your code!
?C:.
?C:SCAT4:
?C: This macro concatenates 4 tokens together and stringifies the result.
?C: It might not exist, so #ifdef it in your code!
?C:.
?C:SCAT5:
?C: This macro concatenates 5 tokens together and stringifies the result.
?C: It might not exist, so #ifdef it in your code!
?C:.
?X: Dist pl70 included the following, but AIX's xlc compiler
?X: (which
 is ANSI-ish and has cpp_stuff == 42)) rejects
?X: The SQuoTe/EQuoTe stuff because the string literals are on
?X: separate lines.  Sigh.
?X:  Andy Dougherty   24 Feb 1998
?X: ?H:?%<:#if $cpp_stuff == 1
?X: ?H:?CAT2:#define CAT2(a,b)a/**/b
?X: ?H:?CAT3:#define CAT3(a,b,c)a/**/b/**/c
?X: ?H:?CAT4:#define CAT4(a,b,c,d)a/**/b/**/c/**/d
?X: ?H:?CAT5:#define CAT5(a,b,c,d,e)a/**/b/**/c/**/d/**/e
?X: ?H:?STRINGIFY:#define STRINGIFY(a)"a"
?X: ?H:?%<:#define SQuoTe(a)"a
?X: ?H:?%<:#define EQuoTe(a)a"
?X: ?H:?SCAT2:#define SCAT2(a,b)EQuoTe(SQuoTe(a)b)
?X: ?H:?SCAT3:#define SCAT3(a,b,c)EQuoTe(SQuoTe(a)b/**/c)
?X: ?H:?SCAT4:#define SCAT4(a,b,c,d)EQuoTe(SQuoTe(a)b/**/c/**/d)
?X: ?H:?SCAT5:#define SCAT5(a,b,c,d,e)EQuoTe(SQuoTe(a)b/**/c/**/d/**/e)
?X: ?H:?%<:#endif
?H:?%<:#if $cpp_stuff == 1
?H:?CAT2:#define CAT2(a,b) a/**/b
?H:?CAT3:#define CAT3(a,b,c) a/**/b/**/c
?H:?CAT4:#define CAT4(a,b,c,d) a/**/b/**/c/**/d
?H:?CAT5:#define CAT5(a,b,c,d,e) a/**/b/**/c/**/d/**/e
?H:?STRINGIFY:#define STRINGIFY(a) "a"
?X: If
```

```
 you can get stringification with catify, tell me how!
?H:?%<:#endif
?H:?%<:#if $cpp_stuff == 42
?H:?%<:#define PeRl_CaTiFy(a, b) a ## b
?H:?%<:#define PeRl_StGiFy(a) #a
?X: The additional level of indirection enables these macros to be
?X: used as arguments to other macros.  See K&R 2nd ed., page 231.
?H:?CAT2:#define CAT2(a,b) PeRl_CaTiFy(a,b)
?H:?CAT3:#define CAT3(a,b,c) CAT2(PeRl_CaTiFy(a,b),c)
?H:?CAT4:#define CAT4(a,b,c,d) CAT2(CAT3(a,b,c),d)
?H:?CAT5:#define CAT5(a,b,c,d,e) CAT2(CAT4(a,b,c,d),e)
?H:?%<:#define StGiFy(a) PeRl_StGiFy(a)
?H:?STRINGIFY:#define STRINGIFY(a) PeRl_StGiFy(a)
?H:?SCAT2:#define SCAT2(a,b) PeRl_StGiFy(a) PeRl_StGiFy(b)
?H:?SCAT3:#define SCAT3(a,b,c) PeRl_StGiFy(a) PeRl_StGiFy(b) PeRl_StGiFy(c)
?H:?SCAT4:#define SCAT4(a,b,c,d) PeRl_StGiFy(a) PeRl_StGiFy(b) PeRl_StGiFy(c) PeRl_StGiFy(d)
?H:?SCAT5:#define SCAT5(a,b,c,d,e) PeRl_StGiFy(a) PeRl_StGiFy(b) PeRl_StGiFy(c) PeRl_StGiFy(d)
PeRl_StGiFy(e)
?H:?%<:#endif
?H:?%<:#if $cpp_stuff != 1 && $cpp_stuff
 != 42
?H:?%<:#include "Bletch: How does this C preprocessor concatenate tokens?"
?H:?%<:#endif
?H:.
?W:%<:CAT2 CAT3 CAT4 CAT5 STRINGIFY SCAT2 SCAT3 SCAT4 SCAT5
?F:!cpp_stuff.c
?LINT:known StGiFy
?LINT:known PeRl_CaTiFy
?LINT:known PeRl_StGiFy
: how do we concatenate cpp tokens here?
echo " "
echo "Checking to see how your cpp does stuff like concatenate tokens..." >&4
$cat >cpp_stuff.c <<'EOCP'
#define RCAT(a,b)a/**/b
#define ACAT(a,b)a ## b
RCAT(Rei,ser)
ACAT(Cir,cus)
EOCP
$cppstdin $cppflags $cppminus <cpp_stuff.c >cpp_stuff.out 2>&1
if $contains 'Circus' cpp_stuff.out >/dev/null 2>&1; then
 echo "Oh!  Smells like ANSI's been here." >&4
 echo "We can catify or stringify, separately or together!"
 cpp_stuff=42
elif $contains 'Reiser' cpp_stuff.out >/dev/null 2>&1; then
 echo "Ah, yes!  The good old days!" >&4
 echo "However, in the good old days we don't know how to stringify and"
 echo "catify at the same time."
 cpp_stuff=1
```

```
else
 $cat >&4 <<EOM
Hmm, I don't seem to be able to concatenate
 tokens with your cpp.
You're going to have to edit the values of CAT[2-5] in config.h...
EOM
?X: It would be nice to have configure remind us at the end that some manual
?X: intervention is needed -- FIXME
 cpp_stuff="/* Help! How do we handle cpp_stuff? */*/"
fi
$rm -f cpp_stuff.*
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/cpp_stuff.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_newlocale d_freelocale d_uselocale d_duplocale d_querylocale \
 i_xlocale xlocale_needed: Inlibc Inhdr Compile cat rm_try run \
 d_localeconv_l
?MAKE: -pick add $@ %<
?S:d_newlocale:
?S: This variable conditionally defines the HAS_NEWLOCALE symbol, which
?S: indicates to the C program that the newlocale() routine is available
?S: to return a new locale object or modify an existing locale object.
?S:.
?S:d_freelocale:
?S: This variable conditionally defines the HAS_FREELOCALE symbol, which
?S: indicates to the C program that the freelocale() routine is available
?S: to deallocates the resources associated with a locale object.
?S:.
?S:d_uselocale:
?S: This variable conditionally defines the HAS_USELOCALE symbol, which
?S: indicates to the C program that the uselocale()
 routine is available
?S: to set the current locale for the calling thread.
?S:.
?S:d_duplocale:
?S: This variable conditionally defines the HAS_DUPLOCALE symbol, which
?S: indicates to the C program that the duplocale() routine is available
?S: to duplicate a locale object.
?S:.
?S:d_querylocale:
?S: This variable conditionally defines the HAS_QUERYLOCALE symbol, which
?S: indicates to the C program that the querylocale() routine is available
```

```
?S: to return the name of the locale for a category mask.
?S:.
?S:i_xlocale:
?S: This symbol, if defined, indicates to the C program that the
?S: header xlocale.h is available.  See also xlocale_needed.
?S:.
?S:xlocale_needed:
?S: This symbol, if defined, indicates that the C program should
?S: include <xlocale.h> to get newlocale() and its friends.
?S:.
?C:HAS_NEWLOCALE:
?C: This symbol, if defined, indicates that the newlocale routine is
?C: available to return a new locale object or modify an existing
?C: locale object.
?C:.
?C:HAS_FREELOCALE:
?C: This
 symbol, if defined, indicates that the freelocale routine is
?C: available to deallocates the resources associated with a locale object.
?C:.
?C:HAS_USELOCALE:
?C: This symbol, if defined, indicates that the uselocale routine is
?C: available to set the current locale for the calling thread.
?C:.
?C:HAS_DUPLOCALE:
?C: This symbol, if defined, indicates that the duplocale routine is
?C: available to duplicate a locale object.
?C:.
?C:HAS_QUERYLOCALE:
?C: This symbol, if defined, indicates that the querylocale routine is
?C: available to return the name of the locale for a category mask.
?C:.
?C:I_XLOCALE:
?C: This symbol, if defined, indicates to the C program that the
?C: header xlocale.h is available.  See also NEED_XLOCALE_H
?C:.
?C:NEED_XLOCALE_H:
?C: This symbol, if defined, indicates that the C program should
?C: include <xlocale.h> to get newlocale() and its friends.
?C:.
?H:#$d_newlocale HAS_NEWLOCALE /**/
?H:#$d_freelocale HAS_FREELOCALE /**/
?H:#$d_uselocale HAS_USELOCALE /**/
?H:#$d_duplocale HAS_DUPLOCALE /**/
?H:#$d_querylocale HAS_QUERYLOCALE /**/
?H:#$xlocale_needed NEED_XLOCALE_H /**/
?H:#$i_xlocale I_XLOCALE
```

```
            /**/
?H:.
?LINT:set i_xlocale
?LINT:set d_newlocale
?LINT:set d_freelocale
?LINT:set d_uselocale
?LINT:set d_duplocale
?LINT:set d_querylocale
?F:!try
: see if this is an xlocale.h system
set xlocale.h i_xlocale
eval $inhdr

: see if newlocale exists
set newlocale d_newlocale
eval $inlibc

: see if freelocale exists
set freelocale d_freelocale
eval $inlibc

: see if uselocale exists
set uselocale d_uselocale
eval $inlibc

: see if duplocale exists
set duplocale d_duplocale
eval $inlibc

: see if querylocale exists
set querylocale d_querylocale
eval $inlibc

: if we have xlocale.h, check whether it is needed
case "$i_xlocale$d_newlocale$xlocale_needed" in
"$define$define")
 echo "Checking if xlocale.h is needed..." >&4
 $cat >try.c <<EOF
#include <locale.h>
#include <stdio.h>
#ifdef TRY_XLOCALE
#include <xlocale.h>
#endif
#$d_localeconv_l
 HAVE_LOCALECONV_L

#ifdef HAVE_LOCALECONV_L
struct lconv *(*lcptr)(locale_t) = localeconv_l;
```

```
#endif

int main(void) {
 locale_t lc = newlocale(LC_ALL_MASK, "C", (locale_t)0);

#ifdef HAVE_LOCALECONV_L
 /* FreeBSD hides only localeconv_l() in xlocale.h */
 struct lconv *lcbuf = localeconv_l(lc);
 printf("decimal: %s\n", lcbuf->decimal_point);
#endif

 freelocale(lc);
 return 0;
}
EOF
 set try
 if eval $compile && $run ./try > /dev/null 2>&1 ; then
  echo "xlocale.h isn't needed" >&4
  xlocale_needed=$undef
 else
  set try -DTRY_XLOCALE
  if eval $compile && $run ./try > /dev/null 2>&1 ; then
   xlocale_needed=$define
   echo "xlocale.h is needed" >&4
  else
   echo "I can't build my test either way" >&4
   xlocale_needed=$undef
  fi
 fi
 $rm_try
 ;;
*) xlocale_needed=$undef ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_newlocale.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getprior.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: d_getprior.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:16  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getprior: Inlibc
?MAKE: -pick add $@ %<
?S:d_getprior:
?S: This variable conditionally defines HAS_GETPRIORITY if getpriority()
?S: is available to get a process's priority.
?S:.
?C:HAS_GETPRIORITY (GETPRIORITY):
?C: This symbol, if defined, indicates that the getpriority routine is
?C: available to get a process's priority.
?C:.
?H:#$d_getprior
 HAS_GETPRIORITY  /**/
?H:.
: see if getpriority exists
?LINT:set d_getprior
set getpriority d_getprior
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getprior.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:intsize longsize shortsize: Assert Myread cat rm_try +cc +ccflags echo n c
?MAKE: -pick add $@ %<
?S:intsize:
?S: This variable contains the value of the INTSIZE symbol, which
?S: indicates to the C program how many bytes there are in an int.
?S:.
?S:longsize:
?S: This variable contains the value of the LONGSIZE symbol, which
?S: indicates to the C program how many bytes there are in a long.
?S:.
```

```
?S:shortsize:
?S: This variable contains the value of the SHORTSIZE symbol which
?S: indicates to the
 C program how many bytes there are in a short.
?S:.
?C:INTSIZE:
?C: This symbol contains the value of sizeof(int) so that the C
?C: preprocessor can make decisions based on it.
?C:.
?C:LONGSIZE:
?C: This symbol contains the value of sizeof(long) so that the C
?C: preprocessor can make decisions based on it.
?C:.
?C:SHORTSIZE:
?C: This symbol contains the value of sizeof(short) so that the C
?C: preprocessor can make decisions based on it.
?C:.
?H:#define INTSIZE $intsize
?H:#define LONGSIZE $longsize
?H:#define SHORTSIZE $shortsize
?H:.
?T:types t size var
?LINT: set shortsize intsize longsize
: check for lengths of integral types
echo " "
types=''
@if SHORTSIZE || shortsize
types="$types short"
@end
@if INTSIZE || intsize
types="$types int"
@end
@if LONGSIZE || longsize
types="$types long"
@end
for t in $types; do
 $echo $n "Checking to see how big your ${t}s are...$c" >&4
 for size in 2 4 8 16 error; do
  $cat >try.c <<EOCP
#include "static_assert.h"
$t foo;
int main()
{
 STATIC_ASSERT($size
 == sizeof(foo));
 return 0;
}
EOCP
```

```
  if $cc -c $ccflags try.c >/dev/null 2>&1; then break; fi
 done
 var=${t}size
 case "$size" in
 error)
  echo " cannot compute it." >&4
  case $t in
  short) dflt=2;;
  int) dflt=4;;
  long) dflt=4;;
  esac
  rp="What is the size of the \"$t\" type (in bytes)?"
  . ./myread
  eval $var="$ans"
  ;;
 *)
  echo " $size bytes." >&4
  eval $var=$size
  ;;
 esac
done
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/intsize.U
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```
?RCS: $Id: Config_sh.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Config_sh.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  14:57:53  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.2  1995/01/11  14:53:31  ram
?RCS: patch45: moved path stripping from d_portable.U to end of Configure
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:50:37  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
```

```
?RCS: Revision 3.0  1993/08/18  12:04:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X:
 This unit ends up producing the config.sh script, which contains all the
?X: definitions figured out by Configure.  The add.Config_sh command knows
?X: which variables need to be remembered.  It also adds the EOT (ends the
?X: here document redirection with variable substitution).
?X:
?MAKE:Config_sh: cf_time cf_by test spitshell startsh myuname Myread \
 End Obsol_sh Loc +d_portable package src cat
?MAKE: -pick add.Config_sh $@ %<
?MAKE: -pick add $@ ./Obsol_sh
?MAKE: -pick close.Config_sh $@ %<
?F:!config.over !config.arch
?T:file temp
?LINT:unclosed EOT
: back to where it started
if test -d ../UU; then
 cd ..
fi

: configuration may be unconditionally patched via a 'config.arch' file
if $test -f config.arch; then
 echo "I see a config.arch file, loading it." >&4
 . ./config.arch
fi

: configuration may be patched via a 'config.over' file
if $test -f config.over; then
 echo " "
 dflt=y
 rp='I see a config.over file.  Do you wish to load it?'
 . UU/myread
 case "$ans" in
 n*) echo
 "OK, I'll ignore it.";;
 *) . ./config.over
  echo "Configuration override changes have been loaded."
  ;;
 esac
fi

@if d_portable
: in case they want portability, strip down executable paths
?X:
?X: Strip down paths in located executables. For each file, e.g. vi, there
```

```
?X: is a $vi variable whose value is for instance '/usr/bin/vi'. By resetting
?X: $vi to 'vi', we rely on the PATH variable to locate the executable...
?X:
case "$d_portable" in
"$define")
 echo " "
 echo "Stripping down executable paths..." >&4
?X:
?X: Previously, we used to do    eval $file="\$file"  but in order
?X: to handle things like  sh Configure -Dmake=gmake, we can't do
?X: that.  What we *really* want is to strip away the absolute path
?X: and rely on the end user's $PATH to correctly find the executable.
?X: This method assumes there is a "basename" command available.  If
?X: not, replace it with the following expr-based command:
?X:   expr  $temp : '.*/\(.*\)' \| $temp
?X: Since this preserves the actual
 command name, we can now drop the
?X: OS/2 specific code.
?X:  --Andy Dougherty  August 1999
?X:
?X: On OS/2, a special $ar command not even named 'ar' is required,
?X: so we don't strip that name.
?X: Also, on DOS-ish systems, there might not be a ln command, but we
?X: might have ln='cp'.
?X: However, we can't set d_portable=undef on such systems since
?X: Unix-ish tools don't have standard locations there.  Thus we
?X: MUST rely on the user's $PATH.
?X: --Andy Dougherty  4/1998
?X:
 for file in $loclist $trylist; do
  eval temp=\$$file
  eval $file=`basename $temp`
 done
 ;;
esac

@end
: create config.sh file
echo " "
echo "Creating config.sh..." >&4
$spitshell <<EOT >config.sh
$startsh
#
# This file was produced by running the Configure script. It holds all the
# definitions figured out by Configure. Should you modify one of these values,
# do not forget to propagate your changes by running "Configure -der". You may
# instead choose to run each of the .SH files by yourself, or "Configure
```

```
 -S".
#

# Package name      : $package
# Source directory  : $src
# Configuration time: $cf_time
# Configured by     : $cf_by
# Target system     : $myuname

EOT
?X: Command line options are saved by the Options.U unit in the
?X: temporary file UU/cmdline.opt
: Add in command line options if available
$test -f UU/cmdline.opt && $cat UU/cmdline.opt >> config.sh

$spitshell <<EOT >>config.sh
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Config_sh.U
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Instruct.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:02:55  ram
?RCS: patch61: logname / whoami sequence rewritten to use case
?RCS:
?RCS: Revision 3.0.1.2  1995/02/15  14:11:34  ram
?RCS: patch51: author name now appears at the end of the paragraph (WED)
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:12:05  ram
?RCS: patch45: now documents the & escape to turn -d on at the read prompt
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X:
```

```
 This unit spew out the directions that we want everyone to read.  I try to
?X: keep the first "pagefull" much less than a page since they don't know it
?X: isn't going to go shooting off the top of the screen, and we don't want
?X: to panic them yet.
?X:
?MAKE:Instruct: Begin Myread Configdir contains
?MAKE: -pick wipe $@ %<
?T:user needman firsttime
: general instructions
needman=true
firsttime=true
user=`(logname) 2>/dev/null`
case "$user" in
") user=`whoami 2>&1`;;
esac
if $contains "^$user\$" ../.config/instruct >/dev/null 2>&1; then
 firsttime=false
 echo " "
 rp='Would you like to see the instructions?'
 dflt=n
 . ./myread
 case "$ans" in
 [yY]*) ;;
 *) needman=false;;
 esac
fi
if $needman; then
 cat <<EOH

This installation shell script will examine your system and ask you questions
to determine how the <PACKAGENAME> package should be installed. If you get
stuck on a question, you may use a ! shell escape to start a subshell or
execute a command.  Many of the questions will have
 default answers in square
brackets; typing carriage return will give you the default.

On some of the questions which ask for file or directory names you are allowed
to use the ~name construct to specify the login directory belonging to "name",
even if you don't have a shell which knows about that.  Questions where this is
allowed will be marked "(~name ok)".

EOH
 rp="
 dflt='Type carriage return to continue'
 . ./myread
 cat <<'EOH'

The prompter used in this script allows you to use shell variables and
```

```
backticks in your answers.  You may use $1, $2, etc...  to refer to the words
in the default answer, as if the default line was a set of arguments given to a
script shell.  This means you may also use $* to repeat the whole default line,
so you do not have to re-type everything to add something to the default.

Everytime there is a substitution, you will have to confirm.  If there is an
error (e.g. an unmatched backtick), the default answer will remain unchanged
and you will be prompted
 again.

If you are in a hurry, you may run 'Configure -d'.  This will bypass nearly all
the questions and use the computed defaults (or the previous answers if there
was already a config.sh file). Type 'Configure -h' for a list of options.
You may also start interactively and then answer '& -d' at any prompt to turn
on the non-interactive behaviour for the remainder of the execution.

EOH
 . ./myread
 cat <<EOH

Much effort has been expended to ensure that this shell script will run on any
Unix system.  If despite that it blows up on yours, your best bet is to edit
Configure and run it again.  If you can't run Configure for some reason,
you'll have to generate a config.sh file by hand.  Whatever problems you
have, let me (<MAINTLOC>) know how I blew it.

This installation script affects things in two ways:

1) it may do direct variable substitutions on some of the files included
  in this kit.
2) it builds a config.h file for inclusion in C programs.  You may edit
  any of these
 files as the need arises after running this script.

If you make a mistake on a question, there is no easy way to back up to it
currently.  The easiest thing to do is to edit config.sh and rerun all the SH
files.  Configure will offer to let you do this before it runs the SH files.

EOH
?X: In case they played with the prompter...
 dflt='Type carriage return to continue'
 . ./myread
 case "$firsttime" in
 true) echo $user >>../.config/instruct;;
 esac
fi

Found in path(s):
```

* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Instruct.U
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```
?RCS: $Id: usedtrace.U,v $
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: usedtrace.U,v $
?RCS:
?MAKE:usedtrace dtrace: Myread Oldconfig Setvar Getfile test
?MAKE: -pick add $@ %<
?Y:TOP
?S:usedtrace:
?S: This variable indicates whether we are compiling with dtrace
?S: support. See also dtrace.
?S:.
?S:dtrace:
?S: This variable holds the location of the dtrace executable.
?S:.
?C:USE_DTRACE:
?C: This symbol, if defined, indicates that Perl should
?C: be built with support for DTrace.
?C:.
?H:#$usedtrace USE_DTRACE  /**/
?H:.
?T:dflt_dtrace
?LINT:set usedtrace
?LINT:set dtrace
: DTrace support
dflt_dtrace='/usr/sbin/dtrace'
$test -x /usr/bin/dtrace && dflt_dtrace='/usr/bin/dtrace'

cat <<EOM

Perl can be built to support DTrace on platforms that support
 it.
DTrace is a diagnosis and performance analysis tool from Sun.

If this doesn't make any sense to you, just accept the default.
EOM

while $test 1 ; do
 case "$usedtrace" in
 $define|true|[yY]*)
```

```
 dflt='y'
 ;;
$undef|false|[nN]*)
 dflt='n'
 dflt_dtrace=""
 ;;
?*)
 dflt='y'
 dflt_dtrace=$usedtrace
 ;;
*)
 dflt='n'
 ;;
esac

rp='Support DTrace if available?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*)      val="$undef" ;;
esac
set usedtrace
eval $setvar

test "X$usedtrace" != "X$define" && break

echo " "
rp='Where is the dtrace executable?'
dflt=$dflt_dtrace
. ./getfile
val="$ans"
set dtrace
eval $setvar

if $test -f $dtrace
then
 if $dtrace -h -s ../perldtrace.d \
  -o perldtrace.tmp >/dev/null 2>&1 \
  && rm -f perldtrace.tmp
 then
  echo " "
  echo "Good: your $dtrace knows about the -h flag."
 else
  cat >&2 <<EOM

*** $me:  Fatal Error:  $dtrace doesn't support -h flag
***
*** Your installed dtrace doesn't support the -h switch to
```

```
 compile a D
*** program into a C header. Can't continue.

EOM
   exit 1
  fi
  break;
 fi

 case "$fastread" in
 yes)
  cat >&2 <<EOM

*** $me:  Fatal Error:  $dtrace not found.
*** Can't continue.

EOM
  exit 1
  ;;
 *)
  echo "*** $dtrace was not found."
  echo " "
  ;;
 esac
done
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/usedtrace.U
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```
?RCS: $Id: i_sysndir.U 1 2006-08-24 12:32:52Z rmanfredi $
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysndir.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:33  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_sysndir: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysndir:
```

```
?S: This variable conditionally defines the I_SYS_NDIR symbol, and indicates
?S: whether a C program should include <sys/ndir.h>.
?S:.
?C:I_SYS_NDIR (I_SYSNDIR):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/ndir.h>.
?C:.
?H:#$i_sysndir
 I_SYS_NDIR /**/
?H:.
?LINT:set i_sysndir
: see if this is an sysndir system
set sys/ndir.h i_sysndir
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sysndir.U
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_backtrace.U,v $
?RCS:
?MAKE:d_backtrace: Inlibc
?MAKE: -pick add $@ %<
?S:d_backtrace:
?S: This variable conditionally defines the HAS_BACKTRACE symbol, which
?S: indicates to the C program that the backtrace() routine is available
?S: to get a stack trace.
?S:.
?C:HAS_BACKTRACE:
?C: This symbol, if defined, indicates that the backtrace() routine is
?C: available to get a stack trace.  The <execinfo.h> header must be
?C: included to use this routine.
?C:.
?H:#$d_backtrace HAS_BACKTRACE /**/
?H:.
?LINT:set d_backtrace
:
```

```
 see if backtrace exists
set backtrace d_backtrace
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_backtrace.U
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```
?RCS: $Id: d_ffs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_ffs.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_ffs d_ffsl: Inlibc
?MAKE: -pick add $@ %<
?S:d_ffs:
?S: This variable conditionally defines the HAS_FFS symbol, which
?S: indicates to the C program that the ffs() routine is available
?S: to find the first bit which is set in its integer argument.
?S:.
?S:d_ffsl:
?S: This variable conditionally defines the HAS_FFSL symbol, which
?S: indicates
 to the C program that the ffsl() routine is available
?S: to find the first bit which is set in its long integer argument.
?S:.
?C:HAS_FFS:
?C: This symbol, if defined, indicates that the ffs routine is available
?C: to find the first bit set in its argument.  If it's not available,
?C: roll your own.
?C:.
?C:HAS_FFSL:
?C: This symbol, if defined, indicates that the ffsl routine is available
?C: to find the first bit set in its argument.  If it's not available,
?C: roll your own.
?C:.
?H:#$d_ffs HAS_FFS  /**/
?H:#$d_ffsl HAS_FFSL  /**/
```

```
?H:.
?LINT:set d_ffs d_ffsl
: see if ffs exists
set ffs d_ffs
eval $inlibc
: see if ffsl exists
set ffsl d_ffsl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_ffs.U
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```
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?RCS:
?MAKE:d_scalbnl: Inlibc
?MAKE: -pick add $@ %<
?S:d_scalbnl:
?S: This variable conditionally defines the HAS_SCALBNL symbol, which
?S: indicates to the C program that the scalbnl() routine is available.
?S: If ilogbl is also present we can emulate frexpl.
?S:.
?C:HAS_SCALBNL:
?C: This symbol, if defined, indicates that the scalbnl routine is
?C: available.  If ilogbl is also present we can emulate frexpl.
?C:.
?H:#$d_scalbnl HAS_SCALBNL  /**/
?H:.
?LINT:set d_scalbnl
: see if scalbnl exists
set scalbnl d_scalbnl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_scalbnl.U
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS:
?MAKE:d_dir_dd_fd: Compile cat rm_try Setvar i_dirent i_stdlib
?MAKE: -pick add $@ %<
?S:d_dir_dd_fd (d_dir_dd_fd.U):
?S: This variable conditionally defines the HAS_DIR_DD_FD symbol, which
?S: indicates that the DIR directory stream type contains a member
?S: variable called dd_fd.
?S:.
?C:HAS_DIR_DD_FD:
?C: This symbol, if defined, indicates that the the DIR* dirstream
?C: structure contains a member variable named dd_fd.
?C:.
?H:#$d_dir_dd_fd HAS_DIR_DD_FD  /**/
?H:.
?LINT:set d_dir_dd_fd
: Look for DIR.dd_fd
case "$i_dirent"
 in
"$define")
   echo "Checking to see if DIR has a dd_fd member variable" >&4
   $cat >try.c <<EOCP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <dirent.h>

int main() {
   DIR dir;
   dir.dd_fd = 1;
   return 0;
}
EOCP
   val=$undef
   set try
   if eval $compile; then
       echo "Yes, it does."
       val="$define"
   else
       echo "No, it does not."
       val="$undef"
   fi
   ;;
*)
```

```
  echo "You don't have a <dirent.h>, so not checking for dd_fd." >&4
  val="$undef"
  ;;
esac
set d_dir_dd_fd
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_dir_dd_fd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_dlerror.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_dlerror.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  13:52:49  ram
?RCS: patch56: force compile-link test since symbol might lie in crt0.o (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:11:23  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_dlerror: Inlibc runnm
?MAKE: -pick add $@ %<
?S:d_dlerror:
?S: This variable conditionally defines the HAS_DLERROR symbol, which
?S: indicates
 to the C program that the dlerror() routine is available.
?S:.
?C:HAS_DLERROR :
?C: This symbol, if defined, indicates that the dlerror routine is
?C: available to return a string describing the last error that
?C: occurred from a call to dlopen(), dlclose() or dlsym().
?C:.
?H:#$d_dlerror HAS_DLERROR /**/
?H:.
?T: xxx_runnm
?LINT:set d_dlerror
```

```
?X: We don't permanently change runnm, but we do temporarily.
?LINT: change runnm
: see if dlerror exists
?X: On NetBSD and FreeBSD, dlerror might be available, but it is in
?X: /usr/lib/crt0.o, not in any of the libraries.  Therefore, do not
?X: use the nm extraction, but use a real compile and link test instead.
xxx_runnm="$runnm"
runnm=false
set dlerror d_dlerror
eval $inlibc
runnm="$xxx_runnm"
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_dlerror.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2014, H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_dladdr.U,v $
?RCS:
?MAKE:d_dladdr: Inlibc
?MAKE: -pick add $@ %<
?S:d_dladdr:
?S: This variable conditionally defines the HAS_DLADDR symbol, which
?S: indicates to the C program that the dladdr() routine is available
?S: to get a stack trace.
?S:.
?C:HAS_DLADDR:
?C: This symbol, if defined, indicates that the dladdr() routine is
?C: available to query dynamic linker information for an address.
?C: The <dlfcn.h> header must be included to use this routine.
?C:.
?H:#$d_dladdr HAS_DLADDR /**/
?H:.
?LINT:set d_dladdr
:
 see if dladdr exists
set dladdr d_dladdr
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_dladdr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_nolnbuf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_nolnbuf.U,v $
?RCS: Revision 3.0.1.1  1994/05/06  14:46:07  ram
?RCS: patch23: avoid looping in the "see that again?" prompt (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:43  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_nolnbuf: test +cc cat rm Setvar Myread
?MAKE: -pick add $@ %<
?S:d_nolnbuf:
?S: This variable conditionally defines the NOLINEBUF symbol, which
?S: indicates to the C program that stdout is not buffered, so that
?S: the
 program can call setbuf() or setlinebuf() for efficiency.
?S:.
?C:NOLINEBUF:
?C: This symbol, if defined, indicates that stdout is not buffered, so that
?C: the program can call setbuf() or setlinebuf() for efficiency.
?C:.
?H:#$d_nolnbuf NOLINEBUF /**/
?H:.
?T:xxx
?F:!blurfl
?LINT:set d_nolnbuf
: check for buffering of stdout
echo " "
case "$d_nolnbuf" in
")
 $cat <<'EOT' >blurfl.c
#include <stdio.h>
int main()
{
```

```
 int i;

 for (i = 0; i < 5; i++) {
  putchar(i+'a');
  sleep(1);
 }
 putchar('\n');
}
EOT
 $cc -o blurfl blurfl.c >/dev/null 2>&1;
 $rm -f blurfl.c
 $cat >&4 <<'EOM'
Checking for buffering of stdout to terminal.

Observe the following characters as they are printed out, to see whether they
print out all at once, or with a 1 second pause between each of them.  If they
print out one by one, you don't have buffering.  If they print together (after
about a 5 second pause), you do have buffering.

EOM
 dflt='Type return to start printing the test characters'
 rp="
 .
 ./myread
 xxx=y
 while $test "$xxx" = 'y'; do
  ./blurfl 1>&4
  dflt=n
  rp='Would you like to see that again?'
  . ./myread
  case "$ans" in
  [yY]*) xxx="y";;
  *) xxx="n";;
  esac
 done
 dflt=y
 rp="Do you have buffering (printed all at once)?"
 . ./myread
 case "$ans" in
 n*) val="$define";;
 *)  val="$undef";;
 esac
 ;;
*)
 case "$d_nolnbuf" in
 "$define") dflt=n;;
 *) dflt=y;;
 esac
```

```
 rp="Do you have buffering on stdout to terminals?"
 . ./myread
 case "$ans" in
 n*) val="$define";;
 *)  val="$undef";;
 esac
 ;;
esac
set d_nolnbuf
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_nolnbuf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setlocale_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_setlocale_r setlocale_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_locale extern_C
?MAKE: -pick add $@ %<
?S:d_setlocale_r:
?S: This variable conditionally defines the HAS_SETLOCALE_R symbol,
?S: which indicates to the C program that the setlocale_r()
?S: routine is available.
?S:.
?S:setlocale_r_proto:
?S: This variable encodes the prototype of setlocale_r.
?S: It is zero if d_setlocale_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setlocale_r
?S: is defined.
?S:.
?C:HAS_SETLOCALE_R:
?C: This symbol, if defined, indicates that the setlocale_r routine
?C: is
 available to setlocale re-entrantly.
?C:.
?C:SETLOCALE_R_PROTO:
?C: This symbol encodes the prototype of setlocale_r.
?C: It is zero if d_setlocale_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setlocale_r
?C: is defined.
```

```
?C:.
?H:#$d_setlocale_r HAS_SETLOCALE_R /**/
?H:#define SETLOCALE_R_PROTO $setlocale_r_proto /**/
?H:.
?T:try hdrs d_setlocale_r_proto
: see if setlocale_r exists
set setlocale_r d_setlocale_r
eval $inlibc
case "$d_setlocale_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_locale locale.h"
 case "$d_setlocale_r_proto:$usethreads" in
 ":define") d_setlocale_r_proto=define
  set d_setlocale_r_proto setlocale_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_setlocale_r_proto" in
 define)
 case "$setlocale_r_proto" in
 "|0) try='int setlocale_r(int, const char*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && setlocale_r_proto=I_ICBI ;;
 esac
 case "$setlocale_r_proto" in
 "|0) d_setlocale_r=undef
  setlocale_r_proto=0
  echo
 "Disabling setlocale_r, cannot determine prototype." >&4 ;;
 * ) case "$setlocale_r_proto" in
  REENTRANT_PROTO*) ;;
  *) setlocale_r_proto="REENTRANT_PROTO_$setlocale_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "setlocale_r has no prototype, not using it." >&4 ;;
  esac
  d_setlocale_r=undef
  setlocale_r_proto=0
  ;;
 esac
 ;;
*) setlocale_r_proto=0
 ;;
esac
```

Found in path(s):

* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_setlocale_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getspnam_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getspnam_r getspnam_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_shadow extern_C
?MAKE: -pick add $@ %<
?S:d_getspnam_r:
?S: This variable conditionally defines the HAS_GETSPNAM_R symbol,
?S: which indicates to the C program that the getspnam_r()
?S: routine is available.
?S:.
?S:getspnam_r_proto:
?S: This variable encodes the prototype of getspnam_r.
?S: It is zero if d_getspnam_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getspnam_r
?S: is defined.
?S:.
?C:HAS_GETSPNAM_R:
?C: This symbol, if defined, indicates that the getspnam_r routine
?C: is available
 to getspnam re-entrantly.
?C:.
?C:GETSPNAM_R_PROTO:
?C: This symbol encodes the prototype of getspnam_r.
?C: It is zero if d_getspnam_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getspnam_r
?C: is defined.
?C:.
?H:#$d_getspnam_r HAS_GETSPNAM_R /**/
?H:#define GETSPNAM_R_PROTO $getspnam_r_proto /**/
?H:.
?T:try hdrs d_getspnam_r_proto
: see if getspnam_r exists
set getspnam_r d_getspnam_r
eval $inlibc
case "$d_getspnam_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_shadow shadow.h"
 case "$d_getspnam_r_proto:$usethreads" in
```

```
 ":define") d_getspnam_r_proto=define
  set d_getspnam_r_proto getspnam_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getspnam_r_proto" in
 define)
 case "$getspnam_r_proto" in
 "|0) try='int getspnam_r(const char*, struct spwd*, char*, size_t, struct spwd**);'
 ./protochk "$extern_C $try" $hdrs && getspnam_r_proto=I_CSBWR ;;
 esac
 case "$getspnam_r_proto" in
 "|0) try='struct spwd* getspnam_r(const char*, struct
 spwd*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getspnam_r_proto=S_CSBI ;;
 esac
 case "$getspnam_r_proto" in
 "|0) d_getspnam_r=undef
  getspnam_r_proto=0
  echo "Disabling getspnam_r, cannot determine prototype." >&4 ;;
 * ) case "$getspnam_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getspnam_r_proto="REENTRANT_PROTO_$getspnam_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getspnam_r has no prototype, not using it." >&4 ;;
  esac
  d_getspnam_r=undef
  getspnam_r_proto=0
  ;;
 esac
 ;;
*) getspnam_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getspnam_r.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_dup2.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_dup2.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_dup2: Inlibc
?MAKE: -pick add $@ %<
?S:d_dup2:
?S: This variable conditionally defines HAS_DUP2 if dup2() is
?S: available to duplicate file descriptors.
?S:.
?C:HAS_DUP2 (DUP2):
?C: This symbol, if defined, indicates that the dup2 routine is
?C: available to duplicate file descriptors.
?C:.
?H:#$d_dup2 HAS_DUP2 /**/
?H:.
?LINT:set d_dup2
:
 see if dup2 exists
set dup2 d_dup2
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_dup2.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_statfs_f_flags: \
 Hasfield i_sysparam i_sysmount i_systypes \
 i_sysvfs i_sysstatfs Setvar d_statfs_s
?MAKE: -pick add $@ %<
?S:d_statfs_f_flags:
?S: This variable conditionally defines the HAS_STRUCT_STATFS_F_FLAGS
?S: symbol, which indicates to struct statfs from has f_flags member.
?S: This kind of struct statfs is coming from sys/mount.h (BSD),
```

```
?S: not from sys/statfs.h (SYSV).
?S:.
?C:HAS_STRUCT_STATFS_F_FLAGS:
?C: This symbol, if defined, indicates that the struct statfs
?C: does have the f_flags member containing the mount flags of
?C: the filesystem containing the file.
?C: This kind of struct statfs is coming from <sys/mount.h> (BSD 4.3),
?C: not from <sys/statfs.h> (SYSV).  Older BSDs
 (like Ultrix) do not
?C: have statfs() and struct statfs, they have ustat() and getmnt()
?C: with struct ustat and struct fs_data.
?C:.
?H:#$d_statfs_f_flags HAS_STRUCT_STATFS_F_FLAGS  /**/
?H:.
?LINT:set d_statfs_f_flags
: see if struct statfs knows about f_flags
case "$d_statfs_s" in
define)
 echo " "
 echo "Checking to see if your struct statfs has f_flags field..." >&4
 set d_statfs_f_flags statfs f_flags $i_systypes sys/types.h $i_sysparam sys/param.h $i_sysmount sys/mount.h
$i_sysvfs sys/vfs.h $i_sysstatfs sys/statfs.h
 eval $hasfield
 ;;
*) val="$undef"
 set d_statfs_f_flags
 eval $setvar
 ;;
esac
case "$d_statfs_f_flags" in
"$define")      echo "Yes, it does."   ;;
*)              echo "No, it doesn't." ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_statfs_f_flags.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: nblock_io.U,v 3.0.1.2 1997/02/28 16:17:14 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
?RCS: $Log: nblock_io.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:17:14  ram
?RCS: patch61: simplify here document for shells that can't handle them well
?RCS: patch61: force use of "startsh" at the head of the generated script
?RCS: patch61: added new files to the ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  14:13:22  ram
?RCS: patch56: created
?RCS:
?X:
?X: Simplify here document for shells that can't handle them well.
?X: (Problem reported on FreeBSD;
 it's unclear if this helps.)  --AD
?X:
?MAKE:o_nonblock eagain rd_nodata d_eofnblk: cat rm_try Compile run \
 d_open3 h_sysfile h_fcntl signal_t hint Oldconfig Setvar \
 startsh i_unistd i_fcntl i_stdlib d_fork d_pipe d_alarm
?MAKE: -pick add $@ %<
?S:o_nonblock:
?S: This variable bears the symbol value to be used during open() or fcntl()
?S: to turn on non-blocking I/O for a file descriptor. If you wish to switch
?S: between blocking and non-blocking, you may try ioctl(FIOSNBIO) instead,
?S: but that is only supported by some devices.
?S:.
?S:eagain:
?S: This variable bears the symbolic errno code set by read() when no
?S: data is present on the file and non-blocking I/O was enabled (otherwise,
?S: read() blocks naturally).
?S:.
?S:rd_nodata:
?S: This variable holds the return code from read() when no data is
?S: present. It should be -1, but some systems return 0 when O_NDELAY is
?S: used, which is a shame because you cannot make the difference between
?S: no data and an EOF.. Sigh!
?S:.
?S:d_eofnblk:
?S: This
 variable conditionally defines EOF_NONBLOCK if EOF can be seen
?S: when reading from a non-blocking I/O source.
?S:.
?C:VAL_O_NONBLOCK:
?C: This symbol is to be used during open() or fcntl(F_SETFL) to turn on
?C: non-blocking I/O for the file descriptor. Note that there is no way
?C: back, i.e. you cannot turn it blocking again this way. If you wish to
?C: alternatively switch between blocking and non-blocking, use the
?C: ioctl(FIOSNBIO) call instead, but that is not supported by all devices.
?C:.
```

```
?C:VAL_EAGAIN:
?C: This symbol holds the errno error code set by read() when no data was
?C: present on the non-blocking file descriptor.
?C:.
?C:RD_NODATA:
?C: This symbol holds the return code from read() when no data is present
?C: on the non-blocking file descriptor. Be careful! If EOF_NONBLOCK is
?C: not defined, then you can't distinguish between no data and EOF by
?C: issuing a read(). You'll have to find another way to tell for sure!
?C:.
?C:EOF_NONBLOCK:
?C: This
 symbol, if defined, indicates to the C program that a read() on
?C: a non-blocking file descriptor will return 0 on EOF, and not the value
?C: held in RD_NODATA (-1 usually, in that case!).
?C:.
?H:#define VAL_O_NONBLOCK $o_nonblock
?H:#define VAL_EAGAIN $eagain
?H:#define RD_NODATA $rd_nodata
?H:#$d_eofnblk EOF_NONBLOCK
?H:.
?T:status
?F:!try.out !try.ret !try.err !try !mtry
?LINT:use d_open3
: check for non-blocking I/O stuff
case "$h_sysfile" in
true) echo "#include <sys/file.h>" > head.c;;
*)
	case "$h_fcntl" in
	true) echo "#include <fcntl.h>" > head.c;;
	*) echo "#include <sys/fcntl.h>" > head.c;;
	esac
	;;
esac
echo " "
echo "Figuring out the flag used by open() for non-blocking I/O..." >&4
case "$o_nonblock" in
")
 $cat head.c > try.c
 $cat >>try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_fcntl I_FCNTL
#ifdef I_FCNTL
#include <fcntl.h>
```

```
#endif
int main() {
#ifdef O_NONBLOCK
 printf("O_NONBLOCK\n");
 exit(0);
#endif
#ifdef
 O_NDELAY
 printf("O_NDELAY\n");
 exit(0);
#endif
?X: Stevens "Advanced Programming in the UNIX Environment" page 364 mentions
?X: the FNDELAY symbol, used in 4.3BSD (source: Paul Marquess).
#ifdef FNDELAY
 printf("FNDELAY\n");
 exit(0);
#endif
 exit(0);
}
EOCP
 set try
 if eval $compile_ok; then
  o_nonblock=`$run ./try`
  case "$o_nonblock" in
  ") echo "I can't figure it out, assuming O_NONBLOCK will do.";;
  *) echo "Seems like we can use $o_nonblock.";;
  esac
 else
  echo "(I can't compile the test program; pray O_NONBLOCK is right!)"
 fi
 ;;
*) echo "Using $hint value $o_nonblock.";;
esac
$rm_try

echo " "
echo "Let's see what value errno gets from read() on a $o_nonblock file..." >&4
case "$eagain" in
")
 case "$d_fork:$d_pipe:$d_alarm" in
 define:define:define)
 $cat head.c > try.c
 $cat >>try.c <<EOCP
#include <errno.h>
#include <sys/types.h>
#include <signal.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
```

```
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_fcntl
 I_FCNTL
#ifdef I_FCNTL
#include <fcntl.h>
#endif
#define MY_O_NONBLOCK $o_nonblock
#ifndef errno  /* XXX need better Configure test */
extern int errno;
#endif
#$i_unistd I_UNISTD
#ifdef I_UNISTD
#include <unistd.h>
#endif
#include <string.h>
$signal_t blech(int x) { exit(3); }
EOCP
 $cat >> try.c <<'EOCP'
int main()
{
 int pd[2];
 int pu[2];
 char buf[1];
 char string[100];
 int ret;

 ret = pipe(pd); /* Down: child -> parent */
 if (ret != 0)
  exit(3);
 ret = pipe(pu); /* Up: parent -> child */
 if (ret != 0)
  exit(3);
 if (0 != fork()) {
  close(pd[1]); /* Parent reads from pd[0] */
  close(pu[0]); /* Parent writes (blocking) to pu[1] */
#ifdef F_SETFL
  if (-1 == fcntl(pd[0], F_SETFL, MY_O_NONBLOCK))
   exit(1);
#else
  exit(4);
#endif
  signal(SIGALRM, blech);
  alarm(5);
  if ((ret = read(pd[0], buf, 1)) > 0) /* Nothing to read! */
   exit(2);
  sprintf(string, "%d\n", ret);
```

```
  ret = write(2, string, strlen(string));
  if (ret != strlen(string))
   exit(3);
  alarm(0);
#ifdef
 EAGAIN
  if (errno == EAGAIN) {
   printf("EAGAIN\n");
   goto ok;
  }
#endif
#ifdef EWOULDBLOCK
  if (errno == EWOULDBLOCK)
   printf("EWOULDBLOCK\n");
#endif
 ok:
  ret = write(pu[1], buf, 1); /* Unblocks child, tell it to close our pipe */
  if (ret != 1)
   exit(3);
  sleep(2);    /* Give it time to close our pipe */
  alarm(5);
  ret = read(pd[0], buf, 1); /* Should read EOF */
  alarm(0);
  sprintf(string, "%d\n", ret);
  ret = write(4, string, strlen(string));
  if (ret != strlen(string))
   exit(3);
  exit(0);
 }

 close(pd[0]);   /* We write to pd[1] */
 close(pu[1]);   /* We read from pu[0] */
 ret = read(pu[0], buf, 1); /* Wait for parent to signal us we may continue */
 if (ret != 1)
  exit(3);
 close(pd[1]);   /* Pipe pd is now fully closed! */
 exit(0);    /* Bye bye, thank you for playing! */
}
EOCP
 set try
 if eval $compile_ok; then
?X: Use script to avoid the possible 'alarm call' message
  echo "$startsh" >mtry
  echo "$run ./try >try.out 2>try.ret 4>try.err
 || exit 4" >>mtry
  chmod +x mtry
  $run ./mtry >/dev/null 2>&1
  case $? in
```

```
 0) eagain=`$cat try.out`;;
 1) echo "Could not perform non-blocking setting!";;
 2) echo "I did a successful read() for something that was not there!";;
 3) echo "Hmm... non-blocking I/O does not seem to be working!";;
 4) echo "Could not find F_SETFL!";;
 *) echo "Something terribly wrong happened during testing.";;
 esac
 rd_nodata=`$cat try.ret`
 echo "A read() system call with no data present returns $rd_nodata."
 case "$rd_nodata" in
 0|-1) ;;
 *)
  echo "(That's peculiar, fixing that to be -1.)"
  rd_nodata=-1
  ;;
 esac
 case "$eagain" in
 ")
  echo "Forcing errno EAGAIN on read() with no data available."
  eagain=EAGAIN
  ;;
 *)
  echo "Your read() sets errno to $eagain when no data is available."
  ;;
 esac
 status=`$cat try.err`
 case "$status" in
 0) echo "And it correctly returns 0 to signal EOF.";;
 -1) echo "But it also returns -1 to signal EOF, so be careful!";;
 *)
echo "However, your read() returns '$status' on EOF??";;
 esac
 val="$define"
 if test "$status" = "$rd_nodata"; then
  echo "WARNING: you can't distinguish between EOF and no data!"
  val="$undef"
 fi
else
 echo "I can't compile the test program--assuming errno EAGAIN will do."
 eagain=EAGAIN
fi
;;
*) echo "Can't figure out how to test this--assuming errno EAGAIN will do."
 eagain=EAGAIN
 val="$define"
 ;;
esac
set d_eofnblk
```

```
 eval $setvar
 ;;
*)
 echo "Using $hint value $eagain."
 echo "Your read() returns $rd_nodata when no data is present."
 case "$d_eofnblk" in
 "$define") echo "And you can see EOF because read() returns 0.";;
 "$undef") echo "But you can't see EOF status from read() returned value.";;
 *)
?X: Should not happen, but if it does, assume the worst!
  echo "(Assuming you can't see EOF status from read anyway.)"
  d_eofnblk=$undef
  ;;
 esac
 ;;
esac
$rm_try head.c mtry
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/nblock_io.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: kernel.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: kernel.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:kernel: Getfile test
?MAKE: -pick add $@ %<
?S:kernel:
?S: This variable becomes the (fully rooted) path name of the kernel.
?S:.
: find the name of the kernel.
echo " "
case "$kernel" in
")
 if $test -r /unix; then
  dflt=/unix
```

```
 elif $test -r /vmunix; then
  dflt=/vmunix
 elif $test -r /xenix; then
  dflt=/xenix
 elif $test -r /mach; then
  dflt=/mach
 elif
 $test -r /dgux; then
  dflt=/dgux
 elif $test -r /hp-ux; then
  dflt=/hp-ux
 elif $test -r /syst; then
  dflt=/syst
 elif $test -r /arix; then
  dflt=/arix
 elif $test -r /irix; then
  dflt=/arix
 else
  dflt='unknown'
  set X /*x
  shift
  case $# in
  1)
   if $test -r "$1"; then
    dflt="$1"
   fi
   ;;
  esac
 fi
 ;;
*)
 dflt="$kernel"
 ;;
esac
fn=f
rp='What is the name of your kernel?'
. ./getfile
kernel="$ans"
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/kernel.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2003 Jarkko Hietaniemi
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:usefaststdio: Myread Oldconfig Setvar rsrc
?MAKE: -pick add $@ %<
?Y:TOP
?S:usefaststdio:
?S: This variable conditionally defines the USE_FAST_STDIO symbol,
?S: and indicates that Perl should be built to use 'fast stdio'.
?S: Defaults to define in Perls 5.8 and earlier, to undef later.
?S:.
?C:USE_FAST_STDIO:
?C: This symbol, if defined, indicates that Perl should
?C: be built to use 'fast stdio'.
?C: Defaults to define in Perls 5.8 and earlier, to undef later.
?C:.
?H:?%<:#ifndef USE_FAST_STDIO
?H:?%<:#$usefaststdio USE_FAST_STDIO  /**/
?H:?%<:#endif
?H:.
?T:xversion
?LINT:set usefaststdio
: Check if faststdio is requested and available
case "$usefaststdio" in
$define|true|[yY]*|")
 xversion=`awk
 '/define[  ]+PERL_VERSION/ {print $3}' $rsrc/patchlevel.h`
 case "$xversion" in
 [68]) dflt='y' ;;
 *) dflt='n' ;;
 esac
 ;;
*) dflt='n';;
esac
cat <<EOM

Perl can be built to use 'fast stdio', which means using the stdio
library but also directly manipulating the stdio buffers to enable
faster I/O.  Using stdio is better for backward compatibility (especially
for Perl extensions), but on the other hand since Perl 5.8 the 'perlio'
interface has been preferred instead of stdio.

If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp='Use the "fast stdio" if available?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
```

```
*)      val="$undef" ;;
esac
set usefaststdio
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/usefaststdio.U
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```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000, Andy Dougherty
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:versionony: cat Myread Setvar Devel
?MAKE: -pick add $@ %<
?LINT:set versionony
?Y:TOP
?S:versionony:
?S: If set, this symbol indicates that only the version-specific
?S: components of a perl installation should be installed.
?S: This may be useful for making a test installation of a new
?S: version without disturbing the existing installation.
?S: Setting versionony is equivalent to setting installperl's -v option.
?S: In particular, the non-versioned scripts and programs such as
?S: a2p, c2ph, h2xs, pod2*, and perldoc
 are not installed
?S: (see INSTALL for a more complete list).  Nor are the man
?S: pages installed.
?S: Usually, this is undef.
?S:.
?LINT:extern inc_version_list
?LINT:change inc_version_list
?LINT:extern inc_version_list_init
?LINT:change inc_version_list_init
?LINT:extern version
: determine whether to use a version number suffix for installed binaries
echo " "
$cat <<EOM
Do you want to use a version number suffix for installed binaries? This
will install 'perl$version' instead of 'perl', and likewise for other
binaries like 'perldoc' and 'cpan'. This allows many versions of perl
```

```
to be installed side-by-side. Unless you are a developer, you probably
do *not* want to do this.
EOM
case "$versiononly" in
"$define"|[Yy]*|true) dflt='y' ;;
*) dflt='n';
esac
rp="Do you want to use a version number suffix for installed binaries?"
. ./myread
case "$ans" in
[yY]*) val="$define";;
*) val="$undef" ;;
esac
set versiononly
eval $setvar

case "$versiononly" in
"$define") inc_version_list="
        inc_version_list_init=0
        ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/versiononly.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2019 Karl Williamson
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_towupper: Inlibc
?MAKE: -pick add $@ %<
?S:d_towupper:
?S: This variable conditionally defines the HAS_TOWUPPER symbol, which
?S: indicates to the C program that the towupper() routine is available.
?S:.
?C:HAS_TOWUPPER:
?C: This symbol, if defined, indicates that the towupper () routine is
?C: available to do case conversion.
?C:.
?H:#$d_towupper HAS_TOWUPPER  /**/
?H:.
?LINT:set d_towupper
: see if towupper exists
```

```
set towupper d_towupper
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_towupper.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ftime.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_ftime.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:06  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_ftime d_gettimeod: Inlibc Setvar
?MAKE: -pick add $@ %<
?S:d_ftime:
?S: This variable conditionally defines the HAS_FTIME symbol, which indicates
?S: that the ftime() routine exists.  The ftime() routine is basically
?S: a sub-second accuracy clock.
?S:.
?S:d_gettimeod:
?S: This variable conditionally defines the HAS_GETTIMEOFDAY symbol,
 which
?S: indicates that the gettimeofday() system call exists (to obtain a
?S: sub-second accuracy clock). You should probably include <sys/resource.h>.
?S:.
?C:HAS_FTIME (FTIMER):
?C: This symbol, if defined, indicates that the ftime() routine exists.
?C: It is basically a sub-second accuracy clock, but is less accurate
?C: than gettimeofday(2) anyway. The type "Timeval" should be used to
?C: refer to "struct timeb".
?C:.
?C:HAS_GETTIMEOFDAY (GETTIMEOFDAY):
?C: This symbol, if defined, indicates that the gettimeofday() system
?C: call is available for a sub-second accuracy clock. Usually, the file
?C: <sys/resource.h> needs to be included (see I_SYS_RESOURCE).
?C: The type "Timeval" should be used to refer to "struct timeval".
?C:.
?H:#$d_ftime HAS_FTIME  /**/
```

```
?H:#$d_gettimeod HAS_GETTIMEOFDAY /**/
?H:?%<:@if HAS_FTIME
?H:?%<:#ifdef HAS_FTIME
?H:?%<:#define Timeval struct timeb  /* Structure used by ftime() */
?H:?%<:#endif
?H:?%<:@end
?H:?%<:@if HAS_GETTIMEOFDAY
?H:?%<:#ifdef HAS_GETTIMEOFDAY
?H:?%<:#define
 Timeval struct timeval /* Structure used by gettimeofday() */
?H:?%<:#endif
?H:?%<:@end
?H:.
?X:FIXME
?X:?I:?d_ftime:i_systimeb
?X:?I:?d_gettimeod:i_sysresrc
?LINT:set d_gettimeod d_ftime
?LINT:known Timeval
: see if gettimeofday or ftime exists
?X:
?X: Give priority to gettimeofday(2) because timing is more accurate
?X:
set gettimeofday d_gettimeod
eval $inlibc
case "$d_gettimeod" in
"$undef")
 set ftime d_ftime
 eval $inlibc
 ;;
*)
 val="$undef"; set d_ftime; eval $setvar
 ;;
esac
case "$d_gettimeod$d_ftime" in
"$undef$undef")
 echo " "
 echo 'No ftime() nor gettimeofday() -- timing may be less accurate.' >&4
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_ftime.U
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```
?RCS: Copyright (c) 2016-2016, H.Merijn Brand
?RCS:
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```

```
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_gai_strerror: Compile cat rm_try run Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_gai_strerror:
?S: This variable conditionally defines the HAS_GAI_STRERROR symbol
?S: if the gai_strerror() routine is available and can be used to
?S: translate error codes returned by getaddrinfo() into human
?S: readable strings.
?S:.
?C:HAS_GAI_STRERROR:
?C: This symbol, if defined, indicates that the gai_strerror routine
?C: is available to translate error codes returned by getaddrinfo()
?C: into human readable strings.
?C:.
?H:#$d_gai_strerror
 HAS_GAI_STRERROR /**/
?H:.
?F:!try
?LINT: set d_gai_strerror
: look for gai_strerror
echo " "
$cat >try.c <<'EOCP'
#include <sys/types.h>
#include <sys/socket.h>
#include <netdb.h>
int main ()
{
   return (gai_strerror (0) ? 0 : 1);
   }
EOCP
set try
?X: if $cc $ccflags $ldflags -o try try.c $libs >/dev/null 2>&1 ; then
val="$undef"
if eval $compile; then
   `$run ./try`
   case "$?" in
 0)  echo "A working gai_strerror() found." >&4
     val="$define" ;;
 *)  echo "gai_strerror() found, but it doesn't work" >&4
     ;;
 esac
else
   echo "gai_strerror() NOT found." >&4
   fi
```

```
set d_gai_strerror
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_gai_strerror.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libs.U,v 3.0.1.6 1997/02/28 16:09:11 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: libs.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  16:09:11  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.5  1995/07/25  14:12:05  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  16:24:22  ram
?RCS: patch36: removed old broken thislib/thatlib processing (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:05:44  ram
?RCS: patch30: code cleanup with if/elif by ADO and RAM
?RCS: patch30:
 undone patch23 for libswanted default setting
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:08:45  ram
?RCS: patch23: now includes ordered default libswanted variable (ADO)
?RCS: patch23: major cleanup for library lookups (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:02:31  ram
?RCS: patch6: added default for libs
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libs ignore_versioned_solibs libsfound libsfiles libsdirs libspath: \
 test cat Myread Oldconfig Loc libpth package xlibpth so _a \
 usesocks sed uselongdouble usequadmath
?MAKE: -pick add $@ %<
```

```
?S:libs:
?S: This variable holds the additional libraries we want to use.
?S: It is up to the Makefile to deal with it.  The list can be empty.
?S:.
?S:libsfound:
?S: This variable holds the full pathnames of the libraries
?S: we found and accepted.
?S:.
?S:libsfiles:
?S: This variable holds the filenames aka basenames of the libraries
?S: we found and accepted.
?S:.
?S:libsdirs:
?S: This
 variable holds the directory names aka dirnames of the libraries
?S: we found and accepted, duplicates are removed.
?S:.
?S:libspath:
?S: This variable holds the directory names probed for libraries.
?S:.
?S:ignore_versioned_solibs:
?S: This variable should be non-empty if non-versioned shared
?S: libraries (libfoo.so.x.y) are to be ignored (because they
?S: cannot be linked against).
?S:.
?T:xxx yyy thislib thisdir libswanted libstyle
?D:libs=''
?X:
?X: This order is chosen so that libraries  -lndir, -ldir, -lucb, -lbsd,
?X: -lBSD, -lPW, and -lx only get used if there are unresolved
?X: routines at link time.  Usually, these are backwards compatibility
?X: libraries, and may not be as reliable as the standard c library.
?X:
?X: The -lsocket -linet -lnsl order has been reported to be necessary
?X: for at least one SVR4 implementation.
?X: -lc must proceed -lucb or -lbsd for most Solaris applications.
?X: -lc_s proceeds -lc so we pick up the shared library version,
 if
?X: it is available.
?X:
?X: The ordering of c, posix, and cposix is a guess and almost
?X: certainly wrong on about half of all systems.
?X:
?X: Set proper libswanted in your private Myinit.U if needed.
?X:
?X:: default ordered library list
?X:libswanted='net socket inet bind nsl nm sdbm gdbm ndbm dbm malloc dl'
?X:libswanted="$libswanted dld sun m c_s c posix cposix ndir dir ucb"
```

```
?X:libswanted="$libswanted bsd BSD PW x"
?X:
?INIT:: default library list
?INIT:libswanted="
?INIT:: some systems want to use only the non-versioned libso:s
?INIT:ignore_versioned_solibs="
?LINT:extern usecbacktrace
?LINT:extern libscheck
?LINT:extern p
?LINT:use uselongdouble
: Looking for optional libraries
echo " "
echo "Checking for optional libraries..." >&4
case "$libs" in
' '|'') dflt='';;
*) dflt="$libs";;
esac
case "$libswanted" in
'') libswanted='c_s';;
esac
?X: libsocks has nasty naming scheme.
?X: This does not work if somebody wants SOCKS 4.
case "$usesocks" in
"$define") libswanted="$libswanted
 socks5 socks5_sh" ;;
esac
case "$usecbacktrace" in
"$define") libswanted="$libswanted bfd" ;;
esac
case "$usequadmath" in
"$define") libswanted="$libswanted quadmath" ;;
esac
libsfound="
libsfiles="
libsdirs="
libspath="
for thisdir in $libpth $xlibpth; do
 test -d $thisdir && libspath="$libspath $thisdir"
done
for thislib in $libswanted; do
 for thisdir in $libspath; do
    xxx=''
    if $test ! -f "$xxx" -a "X$ignore_versioned_solibs" = "X"; then
  xxx=`ls $thisdir/lib$thislib.$so.[0-9] 2>/dev/null|sed -n '$p'`
        $test -f "$xxx" && eval $libscheck
  $test -f "$xxx" && libstyle=shared
  xxx=`ls $thisdir/lib$thislib.[0-9].$so 2>/dev/null|sed -n '$p'`
        $test -f "$xxx" && eval $libscheck
```

```
$test -f "$xxx" && libstyle=shared
   fi
   if test ! -f "$xxx"; then
xxx=$thisdir/lib$thislib.$so
       $test -f "$xxx" && eval $libscheck
$test -f "$xxx" && libstyle=shared
   fi
   if test ! -f "$xxx"; then
xxx=$thisdir/lib$thislib$_a
       $test -f "$xxx"
&& eval $libscheck
$test -f "$xxx" && libstyle=static
   fi
   if test ! -f "$xxx"; then
xxx=$thisdir/$thislib$_a
       $test -f "$xxx" && eval $libscheck
$test -f "$xxx" && libstyle=static
   fi
   if test ! -f "$xxx"; then
xxx=$thisdir/lib${thislib}_s$_a
       $test -f "$xxx" && eval $libscheck
$test -f "$xxx" && libstyle=static
$test -f "$xxx" && thislib=${thislib}_s
   fi
   if test ! -f "$xxx"; then
xxx=$thisdir/Slib$thislib$_a
       $test -f "$xxx" && eval $libscheck
$test -f "$xxx" && libstyle=static
   fi
   if $test -f "$xxx"; then
case "$libstyle" in
shared) echo "Found -l$thislib (shared)." ;;
static) echo "Found -l$thislib." ;;
*)      echo "Found -l$thislib ($libstyle)." ;;
esac
case " $dflt " in
*"-l$thislib "*);;
*) dflt="$dflt -l$thislib"
               libsfound="$libsfound $xxx"
               yyy=`basename $xxx`
               libsfiles="$libsfiles $yyy"
               yyy=`echo $xxx|$sed -e
"s%/$yyy\\$%%"`
               case " $libsdirs " in
               *" $yyy "*) ;;
               *) libsdirs="$libsdirs $yyy" ;;
               esac
   ;;
```

```
  esac
  break
     fi
 done
 if $test ! -f "$xxx"; then
     echo "No -l$thislib."
 fi
done
set X $dflt
shift
dflt="$*"
case "$libs" in
") dflt="$dflt";;
*) dflt="$libs";;
esac
case "$dflt" in
' '|") dflt='none';;
esac

$cat <<EOM

In order to compile $package on your machine, a number of libraries
are usually needed.  Include any other special libraries here as well.
Say "none" for none.  The default list is almost always right.
EOM

echo " "
rp="What libraries to use?"
. ./myread
case "$ans" in
none) libs=' ';;
*) libs="$ans";;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/libs.U
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```
?RCS: $Id: d_wcstombs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: d_wcstombs.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_wcstombs: Inlibc
?MAKE: -pick add $@ %<
?S:d_wcstombs:
?S: This variable conditionally defines the HAS_WCSTOMBS symbol, which
?S: indicates to the C program that the wcstombs() routine is available
?S: to convert wide character strings to multibyte strings.
?S:.
?C:HAS_WCSTOMBS:
?C: This symbol, if defined, indicates that the wcstombs
 routine is
?C: available to convert wide character strings to multibyte strings.
?C:.
?H:#$d_wcstombs HAS_WCSTOMBS /**/
?H:.
?LINT:set d_wcstombs
: see if wcstombs exists
set wcstombs d_wcstombs
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_wcstombs.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: charorder.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:07:08  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:33  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:chorder_int chorder_short chorder_long: Myread cat +cc +ccflags rm
?MAKE: -pick add $@ %<
```

```
?S:chorder_short (d_cos d_bos):
?S: Holds the value describing the byte ordering of characters in a short.
?S: On a Big-Endian machine, that would be "c0c1".
?S:.
?S:chorder_int
 (charoder):
?S: Holds the value describing the byte ordering of characters in an int.
?S: For instance, on a Big-Endian machine, this would be: "c0c1c2c3".
?S:.
?S:chorder_long (d_col d_bol):
?S: Holds the value describing the byte ordering of characters in a long.
?S: On a 64 bits Big-Endian machine, that would yield: "c0c1c2c3c4c5c6c7".
?S:.
?C:CHAR_ORDER_SHORT:
?C: Holds the byte ordering of characters in a short. It's a string
?C: value like "c0c1" on a Big-Endian machine.
?C:.
?C:CHAR_ORDER_INT:
?C: Holds the byte ordering of characters in an int. It's a string
?C: value like "c0c1c2c3" on a Big-Endian machine.
?C:.
?C:CHAR_ORDER_LONG:
?C: Holds the byte ordering of characters in a long. It's a string
?C: value like "c0c1c2c3c4c5c6c7" on a 64 bits Big-Endian machine.
?C:.
?H:#define CHAR_ORDER_SHORT "$chorder_short" /* byte order in a short */
?H:#define CHAR_ORDER_INT "$chorder_int" /* byte order in an int */
?H:#define CHAR_ORDER_LONG "$chorder_long" /* byte order in a long */
?H:.
?F:!byteorder
:
 check for character ordering
echo " "
echo "Checking out byte order..." >&4
$cat >byteorder.c <<'EOCP'
#include <stdio.h>

main(argc, argv)
 int argc;
 char *argv[]; {
 int i;
 int max;
 union {
  short u_s;
  int u_i;
  long u_l;
  char u_c[sizeof(long)];
 } u;
```

```
 switch (argv[1][0]) {
 case 'l':
  u.u_l = 0L;
  /* HMS: ASSERT: sizeof(long) < 10. */
  for(i = 0; i < sizeof(long); ++i) {
   u.u_l *= 0x100L;
   u.u_l += (0xc0 + i);
  }
  max = sizeof(long);
  break;
 case 's':
  u.u_s = 0;
  /* HMS: ASSERT: sizeof(short) < 10. */
  for(i = 0; i < sizeof(short); ++i) {
   u.u_s *= 0x100L;
   u.u_s += (0xc0 + i);
  }
  max = sizeof(short);
  break;
 case 'i':
  u.u_i = 0;
  /* RAM: ASSERT: sizeof(int) < 10. */
  for(i = 0; i < sizeof(int); ++i) {
   u.u_l *= 0x100L;
   u.u_l += (0xc0 + i);
  }
  max = sizeof(int);
  break;
 default:
  max = 0;
  break;
 }
 for(i = 0; i < max; i++) {
  printf("%x", u.u_c[i] & 0x00FF);
 }
 printf("\n");
 exit(0);
}
EOCP
if $cc $ccflags -o
 byteorder byteorder.c >/dev/null 2>&1 ; then
 : null statement
@if chorder_short
   chorder_short=`./byteorder s`
@end
@if chorder_int
   chorder_int=`./byteorder i`
@end
```

```
@if chorder_long
   chorder_long=`./byteorder l`
@end
else
 $cat <<EOM
(I can't seem to get my test program to work.  Guessing 32 bits big-endian.)
EOM
   chorder_short="c0c1"
   chorder_int="c0c1c2c3"
   chorder_long="c0c1c2c3"
fi
@if chorder_short
dflt=$chorder_short
rp='What is the order of characters in a short?'
. ./myread
chorder_short="$ans"
@end
@if chorder_int
dflt=$chorder_int
rp='What is the order of characters in an int?'
. ./myread
chorder_int="$ans"
@end
@if chorder_long
dflt=$chorder_long
rp='What is the order of characters in a long?'
. ./myread
chorder_long="$ans"
@end
$rm -f byteorder* core
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/charorder.U
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```
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_u32align: Compile cat rm_try Oldconfig run i_stdlib \
 byteorder u32type Myread Setvar u8type signal_t
```

```
?MAKE: -pick add $@ %<
?S:d_u32align:
?S: This variable tells whether you must access character data
?S: through U32-aligned pointers.
?S:.
?C:U32_ALIGNMENT_REQUIRED:
?C: This symbol, if defined, indicates that you must access
?C: character data through U32-aligned pointers.
?C:.
?H:?%<:#ifndef U32_ALIGNMENT_REQUIRED
?H:?%<:#$d_u32align U32_ALIGNMENT_REQUIRED /**/
?H:?%<:#endif
?H:.
?F:!try
: Checking 32bit alignedness
$cat
 <<EOM

Checking to see whether you can access character data unalignedly...
EOM
case "$d_u32align" in
")   $cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#define U32 $u32type
#define BYTEORDER 0x$byteorder
#define U8 $u8type
#include <signal.h>
#ifdef SIGBUS
$signal_t bletch(int s) { exit(4); }
#endif
int main() {
#if BYTEORDER == 0x1234 || BYTEORDER == 0x4321
   volatile U8 buf[8];
   volatile U32 *up;
   int i;

   if (sizeof(U32) != 4) {
 printf("sizeof(U32) is not 4, but %d\n", sizeof(U32));
 exit(1);
   }

   fflush(stdout);

#ifdef SIGBUS
```

```
   signal(SIGBUS, bletch);
#endif

   buf[0] = 0;
   buf[1] = 0;
   buf[2] = 0;
   buf[3] = 1;
   buf[4] = 0;
   buf[5] = 0;
   buf[6] = 0;
   buf[7] = 1;

   for (i = 0; i < 4; i++) {
 up = (U32*)(buf + i);
 if (! ((*up == 1 << (8*i)) ||   /* big-endian */
        (*up == 1 << (8*(3-i)))  /* little-endian */
       )
    )
 {
     printf("read failed (%x)\n", *up);

    exit(2);
 }
   }

   /* write test */
   for (i = 0; i < 4; i++) {
 up = (U32*)(buf + i);
 *up = 0xBeef;
 if (*up != 0xBeef) {
     printf("write failed (%x)\n", *up);
     exit(3);
 }
   }

   exit(0);
#else
   printf("1\n");
   exit(1);
#endif
   return 0;
}
EOCP
set try
if eval $compile_ok; then
 echo "(Testing for character data alignment may crash the test.  That's okay.)" >&4
 $run ./try 2>&1 >/dev/null
 case "$?" in
```

```
 0) cat >&4 <<EOM
You can access character data pretty unalignedly.
EOM
  d_u32align="$undef"
  ;;
 *) cat >&4 <<EOM
It seems that you must access character data in an aligned manner.
EOM
  d_u32align="$define"
  ;;
 esac
else
 rp='Can you access character data at unaligned addresses?'
 dflt='n'
 . ./myread
 case "$ans" in
 [yY]*) d_u32align="$undef"  ;;
 *) d_u32align="$define" ;;
 esac
fi
$rm_try
;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_u32align.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: voidflags.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:27:58  ram
?RCS: patch61: don't prompt them if the void support is high enough for us
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:37:44  ram
?RCS: patch45: cosmetic change to avoid spurious blank lines when using -s
?RCS:
?RCS: Revision 3.0  1993/08/18  12:10:01  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?MAKE:voidflags defvoidused: cat sed rm rm_try contains +cc +ccflags package \
 Oldconfig Myread
?MAKE: -pick add $@ %<
?S:voidflags:
?S: This
 variable contains the eventual value of the VOIDFLAGS symbol,
?S: which indicates how much support of the void type is given by this
?S: compiler.  See VOIDFLAGS for more info.
?S:.
?S:defvoidused:
?S: This variable contains the default value of the VOIDUSED symbol (15).
?S:.
?X: Exceptionally, we have to explicitly alias the symbol name for
?X: config_h.SH, otherwise the comment would not appear.
?C:VOIDFLAGS ~ %<:
?C: This symbol indicates how much support of the void type is given by this
?C: compiler.  What various bits mean:
?C:
?C:     1 = supports declaration of void
?C:     2 = supports arrays of pointers to functions returning void
?C:     4 = supports comparisons between pointers to void functions and
?C:      addresses of void functions
?C:     8 = suports declaration of generic void pointers
?C:
?C: The package designer should define VOIDUSED to indicate the requirements
?C: of the package.  This can be done either by #defining VOIDUSED before
?C: including
 config.h, or by defining defvoidused in Myinit.U.  If the
?C: latter approach is taken, only those flags will be tested.  If the
?C: level of void support necessary is not present, defines void to int.
?C:.
?H:?%<:#ifndef VOIDUSED
?H:?%<:#define VOIDUSED $defvoidused
?H:?%<:#endif
?H:?%<:#define VOIDFLAGS $voidflags
?H:?%<:#if (VOIDFLAGS & VOIDUSED) != VOIDUSED
?H:?%<:#define void int  /* is void to be avoided? */
?H:?%<:#define M_VOID   /* Xenix strikes again */
?H:?%<:#endif
?H:.
?W:%<:void
?F:!.out !try.c !flags
?LINT:usefile .out flags try.c
?INIT:: full support for void wanted by default
?INIT:defvoidused=15
?INIT:
?LINT:known void M_VOID VOIDUSED
```

```
: check for void type
echo " "
echo "Checking to see how well your C compiler groks the void type..." >&4
$cat >flags <<EOM

 Support flag bits are:
   1: basic void declarations.
   2: arrays of pointers to functions returning void.
   4: operations between pointers to and addresses of void functions.
   8: generic void pointers.

EOM
case
 "$voidflags" in
")
 $cat >try.c <<'EOCP'
#if TRY & 1
void sub() {
#else
sub() {
#endif
 extern void moo(); /* function returning void */
 void (*goo)();  /* ptr to func returning void */
#if TRY & 8
 void *hue;  /* generic ptr */
#endif
#if TRY & 2
 void (*foo[10])();
#endif

#if TRY & 4
 if(goo == moo) {
  exit(0);
 }
#endif
 exit(0);
}
int main() { sub(); }
EOCP
?X: This unit used to use cc -S in those tests to try to speed up things, but
?X: unfortunately, AIX 3.2 does not support this option.
 if $cc $ccflags -c -DTRY=$defvoidused try.c >.out 2>&1 ; then
  voidflags=$defvoidused
  echo "Good.  It appears to support void to the level $package wants."
  if $contains warning .out >/dev/null 2>&1; then
   echo "However, you might get some warnings that look like this:"
   $sed -e 's/^/ /' .out
  fi
```

```
 else
echo "Hmm, your compiler has some difficulty with void. Checking further..." >&4
  $cat >&4 flags
  $rm -f flags
  if $cc $ccflags -c -DTRY=1 try.c >/dev/null 2>&1; then
   echo
 "It supports 1..."
   if $cc $ccflags -c -DTRY=3 try.c >/dev/null 2>&1; then
    echo "It also supports 2..."
    if $cc $ccflags -c -DTRY=7 try.c >/dev/null 2>&1; then
     voidflags=7
     echo "And it supports 4 but not 8 definitely."
    else
     echo "It doesn't support 4..."
     if $cc $ccflags -c -DTRY=11 try.c >/dev/null 2>&1; then
      voidflags=11
      echo "But it supports 8."
     else
      voidflags=3
      echo "Neither does it support 8."
     fi
    fi
   else
    echo "It does not support 2..."
    if $cc $ccflags -c -DTRY=13 try.c >/dev/null 2>&1; then
     voidflags=13
     echo "But it supports 4 and 8."
    else
     if $cc $ccflags -c -DTRY=5 try.c >/dev/null 2>&1; then
      voidflags=5
      echo "And it supports 4 but has not heard about 8."
     else
      echo "However it supports 8 but not 4."
     fi
    fi
   fi
  else
   echo "There is no support at all for void."
   voidflags=0
  fi
 fi
esac
?X: Only prompt user if support does not match the
 level we want
case "$voidflags" in
"$defvoidused")
 echo "Good.  I already know it supports void to the level $package wants."
 ;;
```

```
*)
 dflt="$voidflags";
 test -f flags && $cat flags
 rp="Your void support flags add up to what?"
 . ./myread
 voidflags="$ans"
 ;;
esac
$rm_try flags
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/voidflags.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_safemcpy.U,v 3.0.1.5 1997/02/28 15:41:12 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_safemcpy.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  15:41:12  ram
?RCS: patch61: improved overlapping copy check
?RCS: patch61: comfort them if they have memmove
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.4  1995/07/25  13:58:46  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.3  1995/03/21  08:47:26  ram
?RCS: patch52: swapped two first arguments of memcpy() calls
?RCS:
?RCS:
 Revision 3.0.1.2  1994/10/29  16:15:10  ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:53:12  ram
?RCS: patch23: ensure string is not optimized in read-only memory (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_safemcpy: Compile cat d_memcpy rm_try run \
```

```
 d_memmove i_memory i_stdlib i_string i_unistd Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_safemcpy:
?S: This variable conditionally defines the HAS_SAFE_MEMCPY symbol if
?S: the memcpy() routine can do overlapping copies.
?S: For overlapping copies, memmove() should be used, if available.
?S:.
?C:HAS_SAFE_MEMCPY (SAFE_MEMCPY):
?C: This symbol, if defined, indicates that the memcpy routine is available
?C: to copy potentially overlapping memory blocks.  If you need to
?C: copy overlapping memory blocks, you should check HAS_MEMMOVE and
?C: use memmove() instead, if available.
?C:.
?H:#$d_safemcpy HAS_SAFE_MEMCPY /**/
?H:.
?F:!try
?LINT:
 set d_safemcpy
: can memcpy handle overlapping blocks?
echo " "
?X: assume the worst
val="$undef"
case "$d_memmove" in
"$define") echo "I'll use memmove() instead of memcpy() for overlapping copies." ;;
*) case "$d_memcpy" in
 "$define")
  echo "Checking to see if memcpy() can do overlapping copies..." >&4
  $cat >try.c <<EOCP
#$i_memory I_MEMORY
#$i_stdlib I_STDLIB
#$i_string I_STRING
#$i_unistd I_UNISTD
EOCP
 $cat >>try.c <<'EOCP'
#include <stdio.h>
#ifdef I_MEMORY
#  include <memory.h>
#endif
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#ifdef I_STRING
#  include <string.h>
#else
#  include <strings.h>
#endif
#ifdef I_UNISTD
#  include <unistd.h>  /* Needed for NetBSD */
```

```
#endif
int main()
{
char buf[128], abc[128];
char *b;
int len;
int off;
int align;

/* Copy "abcde..." string to char abc[] so that gcc doesn't
  try to store the string in read-only memory. */
memcpy(abc, "abcdefghijklmnopqrstuvwxyz0123456789", 36);

for (align = 7; align >=
 0; align--) {
 for (len = 36; len; len--) {
  b = buf+align;
  memcpy(b, abc, len);
  for (off = 1; off <= len; off++) {
   memcpy(b+off, b, len);
   memcpy(b, b+off, len);
   if (memcmp(b, abc, len))
    exit(1);
  }
 }
}
exit(0);
}
EOCP
  set try
  if eval $compile_ok; then
   if $run ./try 2>/dev/null; then
    echo "Yes, it can."
    val="$define"
   else
    echo "It can't, sorry."
   fi
  else
   echo "(I can't compile the test program, so we'll assume not...)"
  fi
  ;;
 esac
 $rm_try
 ;;
esac
set d_safemcpy
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_safemcpy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getnbyad.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getnbyname: Inlibc
?MAKE: -pick add $@ %<
?S:d_getnbyname:
?S: This variable conditionally defines the HAS_GETNETBYNAME symbol, which
?S: indicates to the C program that the getnetbyname() routine is available
?S: to look up networks by their names.
?S:.
?C:HAS_GETNETBYNAME:
?C: This symbol, if defined, indicates that the getnetbyname() routine is
?C: available to look up networks by their names.
?C:.
?H:#$d_getnbyname HAS_GETNETBYNAME  /**/
?H:.
?LINT:set d_getnbyname
: see if getnetbyname exists
set getnetbyname d_getnbyname
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_getnbynm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_gethid.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:10  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?MAKE:d_gethid: Inlibc
?MAKE: -pick add $@ %<
?S:d_gethid:
?S: This variable conditionally defines HAS_GETHOSTID if gethostid() is
?S: available to get the host id.
?S:.
?C:HAS_GETHOSTID (GETHOSTID):
?C: This symbol, if defined, indicates that the gethostid system call is
?C: available to get the host id.
?C:.
?H:#$d_gethid HAS_GETHOSTID  /**/
?H:.
?LINT:set
 d_gethid
: see if gethid exists
set gethostid d_gethid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_gethid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_dlopen.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  13:52:56  ram
?RCS: patch56: force compile-link test since symbol might lie in crt0.o (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:34  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_dlopen: Inlibc runnm
?MAKE: -pick add $@ %<
?S:d_dlopen:
?S: This variable conditionally defines the HAS_DLOPEN symbol, which
?S: indicates to the C program that the dlopen() routine
```

```
 is available.
?S:.
?C:HAS_DLOPEN :
?C: This symbol, if defined, indicates that the dlopen routine is
?C: available.
?C:.
?H:#$d_dlopen HAS_DLOPEN  /**/
?H:.
?T: xxx_runnm
?LINT:set d_dlopen
?X: We don't permanently change runnm, but we do temporarily.
?LINT: change runnm
: see if dlopen exists
?X: On NetBSD and FreeBSD, dlopen is available, but it is in
?X: /usr/lib/crt0.o, not in any of the libraries.  Therefore, do not
?X: use the nm extraction, but use a real compile and link test instead.
xxx_runnm="$runnm"
runnm=false
set dlopen d_dlopen
eval $inlibc
runnm="$xxx_runnm"
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_dlopen.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sitescript.U,v $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sitescript.U,v $
?RCS:
?MAKE:sitescript sitescriptexp installsitescript : Getfile Oldconfig test \
 Setprefixvar sitebin siteprefix
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitescript="
?S:sitescript:
?S: This variable holds the name of the directory in which the user wants
?S: to put add-on publicly executable files for the package in question.  It
?S: is most often a local directory such as /usr/local/bin. Programs using
```

```
?S: this variable must be prepared to deal with ~name substitution.
?S: The standard
 distribution will put nothing in this directory.
?S: After perl has been installed, users may install their own local
?S: scripts in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitescriptexp="
?S:sitescriptexp:
?S: This is the same as the sitescript variable, but is filename expanded at
?S: configuration time, for use in your makefiles.
?S:.
?D:installsitescript="
?S:installsitescript:
?S: This variable is usually the same as sitescriptexp, unless you are on
?S: a system running AFS, in which case they may differ slightly. You
?S: should always use this variable within your makefiles for portability.
?S:.
?LINT:change prefixvar
?LINT:set installsitescript
?LINT:set sitescript
?LINT:set sitescriptexp
: determine where add-on public executable scripts go
case "$sitescript" in
") dflt=$siteprefix/script
 $test -d $dflt || dflt=$sitebin ;;
*)  dflt="$sitescript" ;;
esac
fn=d~+
rp='Pathname where add-on public executable scripts
 should be installed?'
. ./getfile
prefixvar=sitescript
. ./setprefixvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/sitescript.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_semget.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_semget.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_semget: Inlibc
?MAKE: -pick add $@ %<
?S:d_semget:
?S: This variable conditionally defines the HAS_SEMGET symbol, which
?S: indicates to the C program that the semget() routine is available.
?S:.
?C:HAS_SEMGET:
?C: This symbol, if defined, indicates that the semget() routine is
?C: available to get a set of semaphores.
?C:.
?H:#$d_semget
 HAS_SEMGET /**/
?H:.
?LINT:set d_semget
: see if semget exists
set semget d_semget
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_semget.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memchr.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:32  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_memchr: Inlibc
?MAKE: -pick add $@ %<
?S:d_memchr:
?S: This variable conditionally defines the HAS_MEMCHR symbol, which
```

```
?S: indicates to the C program that the memchr() routine is available
?S: to scan a block of memory for a character.
?S:.
?C:HAS_MEMCHR:
?C: This symbol, if defined, indicates that the memchr routine is available
?C: to scan a block of memory for a character.
  If undefined, roll your own.
?C:.
?H:#$d_memchr HAS_MEMCHR  /**/
?H:.
?LINT:set d_memchr
: see if memchr exists
set memchr d_memchr
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_memchr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pthread_y.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_pthread_yield sched_yield d_sched_yield: \
 Compile Setvar cat rm_try usethreads
?MAKE: -pick add $@ %<
?S:d_pthread_yield:
?S: This variable conditionally defines the HAS_PTHREAD_YIELD
?S: symbol if the pthread_yield routine is available to yield
?S: the execution of the current thread.
?S:.
?S:sched_yield:
?S: This variable defines the way to yield the execution
?S: of the current thread.
?S:.
?S:d_sched_yield:
?S: This variable conditionally defines the HAS_SCHED_YIELD
?S: symbol if the sched_yield routine is available to yield
?S: the execution of the current thread.
?S:.
?C:HAS_PTHREAD_YIELD:
?C: This symbol, if defined, indicates that the pthread_yield
?C: routine is available
```

```
 to yield the execution of the current
?C: thread.  sched_yield is preferable to pthread_yield.
?C:.
?C:SCHED_YIELD:
?C: This symbol defines the way to yield the execution of
?C: the current thread.  Known ways are sched_yield,
?C: pthread_yield, and pthread_yield with NULL.
?C:.
?C:HAS_SCHED_YIELD:
?C: This symbol, if defined, indicates that the sched_yield
?C: routine is available to yield the execution of the current
?C: thread.  sched_yield is preferable to pthread_yield.
?C:.
?H:#$d_pthread_yield HAS_PTHREAD_YIELD /**/
?H:#define SCHED_YIELD $sched_yield /**/
?H:#$d_sched_yield HAS_SCHED_YIELD /**/
?H:.
?LINT: set d_pthread_yield d_sched_yield
: see whether the various POSIXish _yields exist
$cat >try.c <<EOP
#include <pthread.h>
#include <stdio.h>
int main() {
#ifdef SCHED_YIELD
 sched_yield();
#else
#ifdef PTHREAD_YIELD
 pthread_yield();
#else
#ifdef PTHREAD_YIELD_NULL
 pthread_yield(NULL);
#endif
#endif
#endif
}
EOP
: see if sched_yield exists
set try -DSCHED_YIELD
if eval $compile;
 then
   val="$define"
   sched_yield='sched_yield()'
else
   val="$undef"
fi
case "$usethreads" in
$define)
 case "$val" in
```

```
 $define) echo 'sched_yield() found.' >&4 ;;
 *)  echo 'sched_yield() NOT found.' >&4 ;;
 esac
esac
set d_sched_yield
eval $setvar

: see if pthread_yield exists
set try -DPTHREAD_YIELD
if eval $compile; then
   val="$define"
   case "$sched_yield" in
   '') sched_yield='pthread_yield()' ;;
   esac
else
   set try -DPTHREAD_YIELD_NULL
   if eval $compile; then
 val="$define"
 case "$sched_yield" in
 '') sched_yield='pthread_yield(NULL)' ;;
 esac
   else
 val="$undef"
   fi
fi
case "$usethreads" in
$define)
 case "$val" in
 $define) echo 'pthread_yield() found.' >&4 ;;
 *)  echo 'pthread_yield() NOT found.' >&4 ;;
 esac
 ;;
esac
set d_pthread_yield
eval $setvar
case "$sched_yield" in
'') sched_yield=undef ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_pthread_y.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_pwd.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:10:57  ram
?RCS: patch56: use setvar so hint file values can override our guesses (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:03:27  ram
?RCS: patch23: had forgotten cppminus in cppstdin test (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:25  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit checks whether there is a pwd system or not
?X:
?MAKE:i_pwd d_pwquota d_pwage d_pwchange d_pwclass d_pwexpire d_pwcomment:
 \
 contains rm cppstdin cppflags cppminus Inhdr Findhdr Setvar
?MAKE: -pick add $@ %<
?S:i_pwd:
?S: This variable conditionally defines I_PWD, which indicates
?S: to the C program that it should include <pwd.h>.
?S:.
?S:d_pwquota:
?S: This varaible conditionally defines PWQUOTA, which indicates
?S: that struct passwd contains pw_quota.
?S:.
?S:d_pwage:
?S: This varaible conditionally defines PWAGE, which indicates
?S: that struct passwd contains pw_age.
?S:.
?S:d_pwchange:
?S: This varaible conditionally defines PWCHANGE, which indicates
?S: that struct passwd contains pw_change.
?S:.
?S:d_pwclass:
?S: This varaible conditionally defines PWCLASS, which indicates
?S: that struct passwd contains pw_class.
?S:.
?S:d_pwexpire:
?S: This varaible conditionally defines PWEXPIRE, which indicates
?S: that struct passwd contains pw_expire.
?S:.
```

```
?S:d_pwcomment:
?S: This varaible conditionally defines PWCOMMENT, which indicates
?S: that struct passwd contains pw_comment.
?S:.
?C:I_PWD:
?C: This symbol,
 if defined, indicates to the C program that it should
?C: include <pwd.h>.
?C:.
?C:PWQUOTA:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_quota.
?C:.
?C:PWAGE:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_age.
?C:.
?C:PWCHANGE:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_change.
?C:.
?C:PWCLASS:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_class.
?C:.
?C:PWEXPIRE:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_expire.
?C:.
?C:PWCOMMENT:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_comment.
?C:.
?H:#$i_pwd I_PWD  /**/
?H:#$d_pwquota PWQUOTA /**/
?H:#$d_pwage PWAGE /**/
?H:#$d_pwchange PWCHANGE /**/
?H:#$d_pwclass PWCLASS /**/
?H:#$d_pwexpire PWEXPIRE /**/
?H:#$d_pwcomment PWCOMMENT /**/
?H:.
?LINT: set i_pwd d_pwquota
 d_pwage d_pwchange d_pwclass d_pwexpire d_pwcomment
?T:xxx
: see if this is a pwd.h system
set pwd.h i_pwd
eval $inhdr
```

```
case "$i_pwd" in
$define)
 xxx=`./findhdr pwd.h`
 $cppstdin $cppflags $cppminus < $xxx >$$.h

 if $contains 'pw_quota' $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_pwquota
 eval $setvar

 if $contains 'pw_age' $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_pwage
 eval $setvar

 if $contains 'pw_change' $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_pwchange
 eval $setvar

 if $contains 'pw_class' $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_pwclass
 eval $setvar

 if $contains 'pw_expire' $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_pwexpire
 eval $setvar

 if $contains 'pw_comment' $$.h >/dev/null 2>&1; then
  val="$define"
 else
```

```
 val="$undef"
 fi
 set d_pwcomment
 eval $setvar

 $rm -f $$.h
 ;;
*)
 val="$undef";
 set
 d_pwquota; eval $setvar
 set d_pwage; eval $setvar
 set d_pwchange; eval $setvar
 set d_pwclass; eval $setvar
 set d_pwexpire; eval $setvar
 set d_pwcomment; eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_pwd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethostbyname_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_gethostbyname_r gethostbyname_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_gethostbyname_r:
?S: This variable conditionally defines the HAS_GETHOSTBYNAME_R symbol,
?S: which indicates to the C program that the gethostbyname_r()
?S: routine is available.
?S:.
?S:gethostbyname_r_proto:
?S: This variable encodes the prototype of gethostbyname_r.
?S: It is zero if d_gethostbyname_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gethostbyname_r
?S: is defined.
?S:.
?C:HAS_GETHOSTBYNAME_R:
?C: This symbol, if defined, indicates
```

```
 that the gethostbyname_r routine
?C: is available to gethostbyname re-entrantly.
?C:.
?C:GETHOSTBYNAME_R_PROTO:
?C: This symbol encodes the prototype of gethostbyname_r.
?C: It is zero if d_gethostbyname_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gethostbyname_r
?C: is defined.
?C:.
?H:#$d_gethostbyname_r HAS_GETHOSTBYNAME_R /**/
?H:#define GETHOSTBYNAME_R_PROTO $gethostbyname_r_proto /**/
?H:.
?T:try hdrs d_gethostbyname_r_proto
: see if gethostbyname_r exists
set gethostbyname_r d_gethostbyname_r
eval $inlibc
case "$d_gethostbyname_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_gethostbyname_r_proto:$usethreads" in
 ":define") d_gethostbyname_r_proto=define
  set d_gethostbyname_r_proto gethostbyname_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_gethostbyname_r_proto" in
 define)
 case "$gethostbyname_r_proto" in
 "|0) try='int gethostbyname_r(const char*, struct hostent*, char*, size_t, struct
 hostent**, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyname_r_proto=I_CSBWRE ;;
 esac
 case "$gethostbyname_r_proto" in
 "|0) try='struct hostent* gethostbyname_r(const char*, struct hostent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyname_r_proto=S_CSBIE ;;
 esac
 case "$gethostbyname_r_proto" in
 "|0) try='int gethostbyname_r(const char*, struct hostent*, struct hostent_data*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyname_r_proto=I_CSD ;;
 esac
 case "$gethostbyname_r_proto" in
 "|0) d_gethostbyname_r=undef
  gethostbyname_r_proto=0
  echo "Disabling gethostbyname_r, cannot determine prototype." >&4 ;;
 * ) case "$gethostbyname_r_proto" in
  REENTRANT_PROTO*) ;;
  *) gethostbyname_r_proto="REENTRANT_PROTO_$gethostbyname_r_proto" ;;
  esac
```

```
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "gethostbyname_r has no prototype, not using it." >&4 ;;
  esac
  d_gethostbyname_r=undef
  gethostbyname_r_proto=0
  ;;
 esac
 ;;
*) gethostbyname_r_proto=0
 ;;
esac
```

Found
 in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_gethostbyname_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_nextafter: Inlibc
?MAKE: -pick add $@ %<
?S:d_nextafter:
?S: This variable conditionally defines HAS_NEXTAFTER if nextafter()
?S: is available to return the next machine representable double from
?S: x in direction y.
?S:.
?C:HAS_NEXTAFTER:
?C: This symbol, if defined, indicates that the nextafter routine is
?C: available to return the next machine representable double from
?C: x in direction y.
?C:.
?H:#$d_nextafter HAS_NEXTAFTER  /**/
?H:.
?LINT:set d_nextafter
: see if nextafter exists
set nextafter d_nextafter
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_nextafter.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_perror.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_perror.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:11:38  ram
?RCS: patch32: always define HAS_PERROR even when not used in C code
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_perror: Inlibc
?MAKE: -pick add $@ %<
?S:d_perror:
?S: This variable conditionally remaps perror to a null action and
?S: defines the symbol HAS_PERROR, which indicates to the C program
?S: that the perror()
 routine is not available to print system
?S: error messages.
?S:.
?C:HAS_PERROR ~ %<:
?C: This symbol, if defined, indicates that the perror() routine is
?C: available to print system error messages. If not defined, you should
?C: use your own diagnostic routine...
?C:.
?C:perror ~ %<:
?C: This symbol is maped to null if the  perror() routine is not
?C: available to print system error messages.
?C:.
?H:?%<:#$d_perror HAS_PERROR /**/
?H:?%<:#ifndef HAS_PERROR
?H:?%<:#define perror(s) ;  /* mapped to a null statement */
?H:?%<:#endif
?H:.
?LINT:set d_perror
: see if perror exists
set perror d_perror
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_perror.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysioctl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysioctl.U,v $
?RCS: Revision 3.0.1.2  1994/05/06  15:04:57  ram
?RCS: patch23: added knowledge for <sys/filio.h> (WED)
?RCS: patch23: optimized amount of findhdr calls
?RCS:
?RCS: Revision 3.0.1.1  1993/11/10  17:36:09  ram
?RCS: patch14: now use a compiler check for TIOCNOTTY because of HP-UX 9.x
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:32  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_sysioctl i_bsdioctl i_sysfilio i_syssockio
 d_voidtty: test contains \
 cat i_termio i_termios i_sgtty Setvar Findhdr +cc rm Inhdr
?MAKE: -pick add $@ %<
?S:i_sysioctl:
?S: This variable conditionally defines the I_SYS_IOCTL symbol, which
?S: indicates to the C program that <sys/ioctl.h> exists and should
?S: be included.
?S:.
?S:i_sysfilio:
?S: This variable conditionally defines the I_SYS_FILIO symbol, which
?S: indicates to the C program that <sys/filio.h> exists and should
?S: be included in preference to <sys/ioctl.h>.
?S:.
?S:i_bsdioctl:
?S: This variable conditionally defines the I_SYS_BSDIOCTL symbol, which
?S: indicates to the C program that <sys/bsdioctl.h> exists and should
?S: be included.
?S:.
?S:i_syssockio:
?S: This variable conditionally defines I_SYS_SOCKIO to indicate to the
?S: C program that socket ioctl codes may be found in <sys/sockio.h>
?S: instead of <sys/ioctl.h>.
?S:.
?S:d_voidtty:
```

```
?S: This variable conditionally defines USE_IOCNOTTY to indicate that the
?S: ioctl() call with TIOCNOTTY should be used
 to void tty association.
?S: Otherwise (on USG probably), it is enough to close the standard file
?S: descriptors and do a setpgrp().
?S:.
?C:I_SYS_IOCTL (I_SYSIOCTL):
?C: This symbol, if defined, indicates that <sys/ioctl.h> exists and should
?C: be included. Otherwise, include <sgtty.h> or <termio.h>.
?C:.
?C:I_SYS_FILIO:
?C: This symbol, if defined, indicates that <sys/filio.h> exists and
?C: should be included instead of <sys/ioctl.h>.
?C:.
?C:I_SYS_BSDIOCTL (I_BSDIOCTL):
?C: This symbol, if defined, indicates that <sys/bsdioctl.h> exists and should
?C: be included. Otherwise, try <sys/ioctl.h>. This is primarly intended for
?C: definitions of sockets options, like SIOCATMARK.
?C:.
?C:I_SYS_SOCKIO (I_SYSSOCKIO):
?C: This symbol, if defined, indicates the <sys/sockio.h> should be included
?C: to get socket ioctl options, like SIOCATMARK.
?C:.
?C:USE_TIOCNOTTY (VOIDTTY):
?C: This symbol, if defined indicate to the C program that the ioctl()
?C: call with TIOCNOTTY should be used
 to void tty association.
?C: Otherwise (on USG probably), it is enough to close the standard file
?C: descriptors and do a setpgrp().
?C:.
?H:#$i_sysioctl I_SYS_IOCTL  /**/
?H:#$i_sysfilio I_SYS_FILIO  /**/
?H:#$i_bsdioctl I_SYS_BSDIOCTL  /**/
?H:#$i_syssockio I_SYS_SOCKIO /**/
?H:#$d_voidtty USE_TIOCNOTTY /**/
?H:.
?T:xxx
: see if ioctl defs are in sgtty, termio, sys/filio or sys/ioctl
?LINT:set i_sysfilio
set sys/filio.h i_sysfilio
eval $inhdr
echo " "
if $test `./findhdr sys/ioctl.h`; then
 val="$define"
 echo '<sys/ioctl.h> found.' >&4
else
 val="$undef"
 if $test $i_sysfilio = "$define"; then
```

```
    echo '<sys/ioctl.h> NOT found.' >&4
 else
  $test $i_sgtty = "$define" && xxx="sgtty.h"
  $test $i_termio = "$define" && xxx="termio.h"
  $test $i_termios = "$define" && xxx="termios.h"
echo "No <sys/ioctl.h> found, assuming ioctl args are defined in <$xxx>." >&4
 fi
fi
?LINT:set i_sysioctl
set i_sysioctl
eval $setvar

@if I_BSDIOCTL || i_bsdioctl
?X:
?X: The only machine I know where this
 inclusion was necessary is a
?X: BULL DPX 5000 (a French machine).
?X:
: see if socket ioctl defs are in sys/bsdioctl or sys/ioctl
echo " "
xxx=`./findhdr sys/bsdioctl.h`
if $test "$xxx"; then
 if $contains SIOCATMARK $xxx >/dev/null 2>&1; then
  val="$define"
  echo "You have socket ioctls defined in <sys/bsdioctl.h>." >&4
 else
  val="$undef"
  echo "No socket ioctls found in <sys/bsdioctl.h>." >&4
 fi
else
 val="$undef"
 echo "<sys/bsdioctl.h> not found, but that's ok." >&4
fi
?LINT:set i_bsdioctl
set i_bsdioctl
eval $setvar

@end
@if I_SYSSOCKIO || i_syssockio
: see if socket ioctl defs are in sys/sockio.h
echo " "
xxx=`./findhdr sys/sockio.h`
if $test "$xxx"; then
 if $contains SIOCATMARK $xxx >/dev/null 2>&1; then
  val="$define"
  echo "You have socket ioctls defined in <sys/sockio.h>." >&4
 else
  val="$undef"
```

```
  echo "No socket ioctls found in <sys/sockio.h>." >&4
 fi
else
 val="$undef"
@if I_BSDIOCTL
 case "$i_bsdioctl" in
 "$define") $cat <<EOM
<sys/sockio.h> not found, using
 ioctls from <sys/bsdioctl.h>.
EOM
 ;;
 *) $cat <<EOM
<sys/sockio.h> not found, assuming socket ioctls are in <sys/ioctl.h>.
EOM
 ;;
 esac
@else
 $cat <<EOM
<sys/sockio.h> not found, assuming socket ioctls are in <sys/ioctl.h>.
EOM
@end
fi
?LINT:set i_syssockio
set i_syssockio
eval $setvar

@end
@if VOIDTTY || d_voidtty
: check how to void tty association
echo " "
case "$i_sysioctl" in
"$define") xxx='sys/ioctl.h';;
?X: otherwise $xxx was set during the determination of i_sysioctl, above.
esac
?X:
?X: Can't use $contains here since HP-UX 9.x has TIOCNOTTY between a pair
?X: of #ifdef/#endif and is never actually defined. Oh well...
?X:
$cat > tcio.c <<EOM
#include <sys/types.h> /* Just in case */
#include <$xxx>

int main()
{
#ifdef TIOCNOTTY
 exit(0);
#else
 exit(1);
```

```
#endif
}
EOM
if ($cc -o tcio tcio.c && ./tcio) >/dev/null 2>&1; then
 val="$define"
 echo "TIOCNOTTY found in <$xxx>." >&4
 echo "Using ioctl() call on /dev/tty to void tty association." >&4
else
 val="$undef"
 echo "Closing
 standard file descriptors should void tty association." >&4
fi
?LINT:set d_voidtty
set d_voidtty
eval $setvar
$rm -f tcio tcio.? core

@end
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sysioctl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getmntent: Inlibc
?MAKE: -pick add $@ %<
?S:d_getmntent:
?S: This variable conditionally defines the HAS_GETMNTENT symbol, which
?S: indicates to the C program that the getmntent() routine is available
?S: to iterate through mounted files to get their mount info.
?S:.
?C:HAS_GETMNTENT:
?C: This symbol, if defined, indicates that the getmntent routine is
?C: available to iterate through mounted file systems to get their info.
?C:.
?H:#$d_getmntent HAS_GETMNTENT  /**/
?H:.
?LINT:set d_getmntent
: see if getmntent exists
set getmntent d_getmntent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_getmntent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2000,2014 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fpclassify d_fp_classify: Inlibc cat Compile rm_try Setvar
?MAKE: -pick add $@ %<
?X:the short story is that C99 says use fpclassify.  But the story is confused
?X:by systems "partially C99" (or fully "pre C99") which either user fpclassify
?X:but with different return values, or they use fp_classify (with the expected)
?X:return values, or they use some other spelling of *fp*class* (sometimes even
?X:without the *fp* part), with yet another set(s) of return values ...
?S:d_fpclassify:
?S: This variable conditionally defines the HAS_FPCLASSIFY symbol, which
?S: indicates to the C program that the fpclassify() routine is available.
?S:.
?S:d_fp_classify:
?S: This variable conditionally defines the HAS_FP_CLASSIFY
 symbol, which
?S: indicates to the C program that the fp_classify() routine is available.
?S:.
?C:HAS_FPCLASSIFY:
?C: This symbol, if defined, indicates that the fpclassify routine is
?C: available to classify doubles.  Available for example in HP-UX.
?C: The returned values are defined in <math.h> and are
?C:
?C:   FP_NORMAL     Normalized
?C:   FP_ZERO       Zero
?C:   FP_INFINITE   Infinity
?C:   FP_SUBNORMAL  Denormalized
?C:   FP_NAN        NaN
?C:
?C:.
?C:HAS_FP_CLASSIFY:
?C: This symbol, if defined, indicates that the fp_classify routine is
?C: available to classify doubles. The values are defined in <math.h>
?C:
?C:   FP_NORMAL     Normalized
?C:   FP_ZERO       Zero
?C:   FP_INFINITE   Infinity
?C:   FP_SUBNORMAL  Denormalized
?C:   FP_NAN        NaN
```

```
?C:
?C:.
?H:#$d_fpclassify HAS_FPCLASSIFY  /**/
?H:#$d_fp_classify HAS_FP_CLASSIFY  /**/
?H:.
?LINT:set d_fpclassify
?LINT:set d_fp_classify
: check for fpclassify
?X:classified (Comment by jhi)
?X:fpclassify i_math
?X:fp_classify i_math
?X:fpclass i_math
 i_ieeefp i_fp
?X:fp_class i_math i_fp_class
?X:  No i_fp_class yet. But the systems that have
?X:  this (Tru64 and IRIX) both had <fp_class.h>
?X:class i_math
echo "Checking to see if you have fpclassify..." >&4
$cat >try.c <<EOCP
#include <math.h>
int main() { return fpclassify(1.0) == FP_NORMAL ? 0 : 1; }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have fpclassify."
else
 val="$undef"
 echo "You do not have fpclassify."
fi
$rm_try
set d_fpclassify
eval $setvar

: see if fp_classify exists
set fp_classify d_fp_classify
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fpclassify.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_dirent.U,v 3.0.1.4 1994/10/29 16:20:01 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: i_dirent.U,v $
?RCS: Revision 3.0.1.4  1994/10/29  16:20:01  ram
?RCS: patch36: failed scanning for 'd_namlen' with missing <dirent.h> (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:01:25  ram
?RCS: patch30: added direntrytype for hints, merely for NeXT (ADO)
?RCS: patch30: now checks for both struct dirent and direct (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:22:37  ram
?RCS: patch27: new variable direntrytype for proper type setting (ADO)
?RCS:
?RCS:
 Revision 3.0.1.1  1994/01/24  14:11:15  ram
?RCS: patch16: added new Direntry_t pseudo-type for directory entries
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit looks whether there is a dirent system or not
?X:
?MAKE:i_dirent d_dirnamlen direntrytype: test contains Setvar \
 Myread Findhdr cppstdin cppflags cppminus rm_try
?MAKE: -pick add $@ %<
?S:i_dirent:
?S: This variable conditionally defines I_DIRENT, which indicates
?S: to the C program that it should include <dirent.h>.
?S:.
?S:d_dirnamlen:
?S: This variable conditionally defines DIRNAMLEN, which indicates
?S: to the C program that the length of directory entry names is
?S: provided by a d_namelen field.
?S:.
?S:direntrytype:
?S: This symbol is set to 'struct direct' or 'struct dirent' depending on
?S: whether dirent is available or not. You should use this pseudo type to
?S: portably declare your directory entries.
?S:.
?C:I_DIRENT:
?C: This symbol,
 if defined, indicates to the C program that it should
?C: include <dirent.h>. Using this symbol also triggers the definition
?C: of the Direntry_t define which ends up being 'struct dirent' or
```

```
?C: 'struct direct' depending on the availability of <dirent.h>.
?C:.
?C:DIRNAMLEN:
?C: This symbol, if defined, indicates to the C program that the length
?C: of directory entry names is provided by a d_namlen field.  Otherwise
?C: you need to do strlen() on the d_name field.
?C:.
?C:Direntry_t:
?C: This symbol is set to 'struct direct' or 'struct dirent' depending on
?C: whether dirent is available or not. You should use this pseudo type to
?C: portably declare your directory entries.
?C:.
?H:#$i_dirent I_DIRENT  /**/
?H:#$d_dirnamlen DIRNAMLEN /**/
?H:?%<:@if I_DIRENT && Direntry_t
?H:?%<:#define Direntry_t $direntrytype
?H:?%<:@end
?H:.
?T:xinc guess1 guess2
?LINT:set i_dirent d_dirnamlen
: see if this is a dirent system
echo " "
if xinc=`./findhdr dirent.h`; $test "$xinc"; then
 val="$define"
 echo
 "<dirent.h> found." >&4
else
 val="$undef"
 if xinc=`./findhdr sys/dir.h`; $test "$xinc"; then
  echo "<sys/dir.h> found." >&4
  echo " "
 else
  xinc=`./findhdr sys/ndir.h`
 fi
 echo "<dirent.h> NOT found." >&4
fi
set i_dirent
eval $setvar

?X: Use struct dirent or struct direct?   If we're using dirent.h,
?X: it's probably struct dirent, but apparently not always.
?X: Assume $xinc still contains the name of the header file we're using.
@if direntrytype || Direntry_t
: Look for type of directory structure.
echo " "
$cppstdin $cppflags $cppminus < "$xinc" > try.c

case "$direntrytype" in
```

```
"|' ')
 case "$i_dirent" in
 $define) guess1='struct dirent' ;;
 *) guess1='struct direct'  ;;
 esac
 ;;
*) guess1="$direntrytype"
 ;;
esac

case "$guess1" in
'struct dirent') guess2='struct direct' ;;
*) guess2='struct dirent' ;;
esac

if $contains "$guess1" try.c >/dev/null 2>&1; then
 direntrytype="$guess1"
 echo "Your directory entries are $direntrytype." >&4
elif $contains "$guess2"
 try.c >/dev/null 2>&1; then
 direntrytype="$guess2"
 echo "Your directory entries seem to be $direntrytype." >&4
else
 echo "I don't recognize your system's directory entries." >&4
 rp="What type is used for directory entries on this system?"
 dflt="$guess1"
 . ./myread
 direntrytype="$ans"
fi
$rm_try

@end
@if d_dirnamlen || DIRNAMLEN
: see if the directory entry stores field length
echo " "
$cppstdin $cppflags $cppminus < "$xinc" > try.c
if $contains 'd_namlen' try.c >/dev/null 2>&1; then
 echo "Good, your directory entry keeps length information in d_namlen." >&4
 val="$define"
else
 echo "Your directory entry does not know about the d_namlen field." >&4
 val="$undef"
fi
set d_dirnamlen
eval $setvar
$rm_try

@end
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_dirent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_SHM_MAC.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_SHM_MAC.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:41  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_SHM_MAC d_SHM_PRM d_SHM_SEG d_SHM_IMMU: cat d_shm test rm +cc +ccflags
?MAKE: -pick add $@ %<
?S:d_SHM_MAC:
?S: Sometimes, the SHMLBA manifest needs sys/sysmacros.h, usually for
?S: the ctob() macro.
?S:.
?S:d_SHM_PRM:
?S: Sometimes, the SHMLBA manifest needs sys/param.h, usually for the
?S: NBPC constant.
?S:.
?S:d_SHM_SEG:
?S: Sometimes,
 the SHMLBA manifest needs sys/seg.h, usually for the
?S: SNUMSHFT constant.
?S:.
?S:d_SHM_IMMU:
?S: Sometimes, the SHMLBA manifest needs sys/immu.h, usually for the
?S: stob() macro.
?S:.
?C:SHMLBA_WANTS_SYSMACROS:
?C: This value tells us to include <sys/sysmacros.h> because SHMLBA
?C: needs something from there, probably the ctob() macro.
?C:.
?C:SHMLBA_WANTS_PARAM:
?C: This value tells us to include <sys/param.h> because SHMLBA needs
?C: something from there, probably the NBPC constant.
?C:.
?C:SHMLBA_WANTS_SEG:
```

```
?C: This value tells us to include <sys/seg.h> because SHMLBA needs
?C: something from there, probably the SNUMSHFT constant.
?C:.
?C:SHMLBA_WANTS_IMMU:
?C: This value tells us to include <sys/immu.h> because SHMLBA needs
?C: something from there, probably the stob() macro.  (tower_600 only?)
?C:.
?H:#$d_SHM_MAC SHMLBA_WANTS_SYSMACROS /* SHMLBA wants ctob()? */
?H:#$d_SHM_PRM SHMLBA_WANTS_PARAM /* SHMLBA wants NBPC? */
?H:#$d_SHM_SEG SHMLBA_WANTS_SEG /* SHMLBA wants
 SNUMSHFT? */
?H:#$d_SHM_IMMU SHMLBA_WANTS_IMMU /* SHMLBA wants stob()? */
?H:.
?T:flags D_sys_immu D_sys_seg D_sys_sysmacros D_sys_param
: check for SHMLBA braindamage
d_SHM_MAC="$undef"
d_SHM_PRM="$undef"
d_SHM_SEG="$undef"
d_SHM_IMMU="$undef"
if $test "$d_shm" = "$define" ; then
 echo " "
 $cat >&4 <<EOM
Checking to see if SHMLBA needs additional headers.
The headers I'll be checking are:

   sys/macros.h (for the ctob() macro)
   sys/param.h  (for NBPC)
   sys/seg.h    (for SNUMSHFT)
   sys/immu.h  (for the stob() macro)

EOM
 $cat >shm_mac.c <<'EOCP'
#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/shm.h>
#ifdef I_SYS_IMMU
#include <sys/immu.h>
#endif
#ifdef I_SYS_SYSMACROS
#include <sys/sysmacros.h>
#endif
#ifdef I_SYS_PARAM
#include <sys/param.h>
#endif
#ifdef I_SYS_SEG
#include <sys/seg.h>
#endif
```

```
int main() {
 int foo = SHMLBA ;
 }
EOCP
 flags='xxx'
 for D_sys_immu in " '-DI_SYS_IMMU'; do
 for D_sys_seg in " '-DI_SYS_SEG'; do
 for D_sys_sysmacros in " '-DI_SYS_SYSMACROS';
 do
 for D_sys_param in " '-DI_SYS_PARAM'; do
  case "$flags" in
  'xxx')
   case "$D_sys_immu$D_sys_param$D_sys_sysmacros$D_sys_seg" in
   ")
    echo "Trying it normally..."
    ;;
   *)
   echo "Trying $D_sys_immu $D_sys_param $D_sys_sysmacros $D_sys_seg"
   ;;
   esac
   if $cc $ccflags \
   $D_sys_immu $D_sys_param $D_sys_sysmacros $D_sys_seg \
   -o shm_mac shm_mac.c >/dev/null 2>&1 ; then
    set X $D_sys_immu $D_sys_param $D_sys_sysmacros $D_sys_seg
    shift
    flags="$*"
    echo "Succeeded with $flags"
   fi
   ;;
  esac
 done
 done
 done
 done
 case "$flags" in
 xxx)
  echo "I don't know how to keep SHMLBA happy.  Good luck!"
  ;;
 esac
 case "$flags" in
 *I_SYS_PARAM*) d_SHM_PRM="$define";;
 esac
 case "$flags" in
 *I_SYS_SYSMACROS*) d_SHM_MAC="$define";;
 esac
 case "$flags" in
 *I_SYS_SEG*) d_SHM_SEG="$define";;
 esac
```

```
 case "$flags" in
 *I_SYS_IMMU*) d_SHM_IMMU="$define";;
 esac
fi
$rm -f shm_mac*
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_SHM_MAC.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msg.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:37  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_msg: test d_msgctl d_msgget d_msgsnd d_msgrcv Setvar Findhdr osname
?MAKE: -pick add $@ %<
?S:d_msg:
?S: This variable conditionally defines the HAS_MSG symbol, which
?S: indicates that the entire msg*(2) library is present.
?S:.
?C:HAS_MSG:
?C: This symbol, if defined, indicates that the entire msg*(2) library is
?C: supported (IPC mechanism based on message queues).
?C:.
?H:#$d_msg
 HAS_MSG  /**/
?H:.
?T:h_msg
?LINT:set d_msg
: see how much of the 'msg*(2)' library is present.
h_msg=true
echo " "
case "$d_msgctl$d_msgget$d_msgsnd$d_msgrcv" in
*"$undef"*) h_msg=false;;
esac
case "$osname" in
freebsd)
```

```
  case "`ipcs 2>&1`" in
  "SVID messages"*"not configured"*)
 echo "Your $osname does not have the msg*(2) configured." >&4
      h_msg=false
 val="$undef"
 set msgctl d_msgctl
 eval $setvar
 set msgget d_msgget
 eval $setvar
 set msgsnd d_msgsnd
 eval $setvar
 set msgrcv d_msgrcv
 eval $setvar
 ;;
  esac
  ;;
esac
: we could also check for sys/ipc.h ...
if $h_msg && $test `./findhdr sys/msg.h`; then
 echo "You have the full msg*(2) library." >&4
 val="$define"
else
 echo "You don't have the full msg*(2) library." >&4
 val="$undef"
fi
set d_msg
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_msg.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: alignbytes.U,v 3.0.1.2 1994/10/29 16:02:28 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: alignbytes.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:02:28  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:25:20  ram
```

```
?RCS: patch23: avoid ALIGNBYTES, since it conflicts on NetBSD
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:23  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:alignbytes: Myread Compile cat rm_try multiarch run test nvtype
?MAKE: -pick add $@ %<
?S:alignbytes:
?S: This
 variable holds the number of bytes required to align a
?S: double-- or a long double when applicable. Usual values are
?S: 2, 4 and 8.  The default is eight, for safety.
?S:.
?X: This used to be called ALIGNBYTES, but that conflicts with
?X: <machines/param.h> in NetBSD.
?C:MEM_ALIGNBYTES (ALIGNBYTES):
?C: This symbol contains the number of bytes required to align a
?C: double, or a long double when applicable. Usual values are 2,
?C: 4 and 8. The default is eight, for safety.  For cross-compiling
?C: or multiarch support, Configure will set a minimum of 8.
?C:.
?H:?%<:#define MEM_ALIGNBYTES $alignbytes
?H:.
?F:!try
: check for alignment requirements
echo " "
case "$alignbytes" in
   ") echo "Checking alignment constraints..." >&4
 $cat >try.c <<EOCP
#include <stdio.h>
struct foobar {
   char foo;
   $nvtype bar;
} try_algn;
int main()
{
   printf("%d\n", (int)((char *)&try_algn.bar - (char *)&try_algn.foo));
   return(0);
}
EOCP
 set try
 if eval $compile_ok; then
     dflt=`$run
 ./try`
 else
     dflt='8'
     echo "(I can't seem to compile the test program...)"
 fi
```

```
 case "$multiarch" in
    *$define*)
  : The usual safe value is 8, but Darwin with -Duselongdouble
  : needs 16.  Hence, we will take 8 as a minimum, but allow
  : Configure to pick a larger value if needed.
  if $test "$dflt" -lt 8; then
     dflt='8'
     echo "Setting alignment to 8 for multiarch support.">&4
  fi
  ;;
 esac
 ;;
   *) dflt="$alignbytes"
 ;;
esac
rp="Doubles must be aligned on a how-many-byte boundary?"
. ./myread
alignbytes="$ans"
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/alignbytes.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2017 H.Merijn Brand (original change by Tony Cook)
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_openat d_unlinkat d_renameat d_linkat d_fchmodat: Inlibc
?MAKE: -pick add $@ %<
?S:d_fchmodat:
?S: This variable conditionally defines the HAS_FCHMODAT symbol, which
?S: indicates the POSIX fchmodat() function is available.
?S:.
?S:d_linkat:
?S: This variable conditionally defines the HAS_LINKAT symbol, which
?S: indicates the POSIX linkat() function is available.
?S:.
?S:d_openat:
?S: This variable conditionally defines the HAS_OPENAT symbol, which
?S: indicates the POSIX openat() function is available.
?S:.
?S:d_renameat:
?S: This variable conditionally defines the HAS_RENAMEAT symbol, which
?S: indicates the POSIX renameat() function is available.
?S:.
```

```
?S:d_unlinkat:
?S: This variable
 conditionally defines the HAS_UNLINKAT symbol, which
?S: indicates the POSIX unlinkat() function isavailable.
?S:.
?C:HAS_FCHMODAT:
?C: This symbol is defined if the fchmodat() routine is available.
?C:.
?C:HAS_LINKAT:
?C: This symbol is defined if the linkat() routine is available.
?C:.
?C:HAS_OPENAT:
?C: This symbol is defined if the openat() routine is available.
?C:.
?C:HAS_RENAMEAT:
?C: This symbol is defined if the renameat() routine is available.
?C:.
?C:HAS_UNLINKAT:
?C: This symbol is defined if the unlinkat() routine is available.
?C:.
?H:#$d_fchmodat HAS_FCHMODAT /**/
?H:#$d_linkat HAS_LINKAT /**/
?H:#$d_openat HAS_OPENAT /**/
?H:#$d_renameat HAS_RENAMEAT /**/
?H:#$d_unlinkat HAS_UNLINKAT /**/
?H:.
?LINT:set d_openat d_unlinkat d_renameat d_linkat d_fchmodat
: check for openat, unlinkat, renameat, linkat, fchmodat
set openat d_openat
eval $inlibc

set unlinkat d_unlinkat
eval $inlibc

set renameat d_renameat
eval $inlibc

set linkat d_linkat
eval $inlibc

set fchmodat d_fchmodat
eval
 $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fsat.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_grp.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:20  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_grp: Inhdr
?MAKE: -pick add $@ %<
?S:i_grp:
?S: This variable conditionally defines the I_GRP symbol, and indicates
?S: whether a C program should include <grp.h>.
?S:.
?C:I_GRP:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <grp.h>.
?C:.
?H:#$i_grp I_GRP  /**/
?H:.
?LINT:set i_grp
: see if this is an grp system
set grp.h i_grp
eval $inhdr
```

Found
 in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_grp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: filexp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: filexp.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:filexp: privlib
?MAKE: -pick add $@ %<
?S:filexp:
?S: This symbol contains the full pathname of the filexp script, in case we
?S: are saving the script for posterity.
?S:.
: must not allow self reference
case "$privlib" in
 /*)
 filexp=$privlib/filexp
 ;;
 *)
 filexp=`pwd`/filexp
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/filexp_path.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: h_sysfile.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: h_sysfile.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:h_sysfile: Nothing
?MAKE: -pick add $@ %<
?S:h_sysfile:
?S: This is variable gets set in various places to tell i_sys_file that
?S: <sys/file.h> should be included.
?S:.
: Initialize h_sysfile
h_sysfile=false
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/h_sysfile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_log2: Inlibc
?MAKE: -pick add $@ %<
?S:d_log2:
?S: This variable conditionally defines the HAS_LOG2 symbol, which
?S: indicates to the C program that the log2() routine is available
?S: to compute log base two.
?S:.
?C:HAS_LOG2:
?C: This symbol, if defined, indicates that the log2 routine is
?C: available to do the log2 function.
?C:.
?H:#$d_log2 HAS_LOG2  /**/
?H:.
?LINT:set d_log2
: see if log2 exists
set log2 d_log2
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_log2.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dup2.C,v 3.0.1.1 1994/01/24 13:58:37 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* Original Author: Larry Wall <lwall@netlabs.com>
*
* $Log: dup2.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:37  ram
* patch16: created
```

```
*
*/
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/lib/C/fake/dup2.C
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: cc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cc.U,v $
?RCS: Revision 3.0.1.4  1995/05/12  12:06:47  ram
?RCS: patch54: may now abort Configure when cc does not work
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:20:11  ram
?RCS: patch45: changed gcc checking message to a more explicit one (WED)
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:04:29  ram
?RCS: patch36: detect gcc even when not called as 'gcc' (ADO)
?RCS: patch36: simplified gcc version checking (ADO)
?RCS: patch36: added ?F: line for metalint
 file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:26:06  ram
?RCS: patch23: added support for gcc version (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:30  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:cc: Myread Oldconfig Checkcc test
?MAKE: -pick add $@ %<
?S:cc:
?S: This variable holds the name of a command to execute a C compiler which
?S: can resolve multiple global references that happen to have the same
?S: name.  Usual values are 'cc' and 'gcc'.
?S: Fervent ANSI compilers may be called 'c89'.  AIX has xlc.
?S:.
?F:!cc.cbu
?D:cc='cc'
: Determine the C compiler to be used
```

```
echo " "
case "$cc" in
") dflt=cc;;
*) dflt="$cc";;
esac
rp="Use which C compiler?"
. ./myread
cc="$ans"

: See whether they have no cc but they do have gcc
. ./trygcc
?X: Look for a hint-file generated 'call-back-unit'.  Now that the
?X: user has specified the compiler, we may need to set or change some
?X: other defaults.
if $test -f cc.cbu; then
   . ./cc.cbu
fi
. ./checkcc

Found
 in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
5.36.0/dist/U/cc.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_setservent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_setservent_r setservent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_setservent_r:
?S: This variable conditionally defines the HAS_SETSERVENT_R symbol,
?S: which indicates to the C program that the setservent_r()
?S: routine is available.
?S:.
?S:setservent_r_proto:
?S: This variable encodes the prototype of setservent_r.
?S: It is zero if d_setservent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setservent_r
?S: is defined.
?S:.
?C:HAS_SETSERVENT_R:
```

```
?C: This symbol, if defined, indicates that the setservent_r routine
?C: is
 available to setservent re-entrantly.
?C:.
?C:SETSERVENT_R_PROTO:
?C: This symbol encodes the prototype of setservent_r.
?C: It is zero if d_setservent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setservent_r
?C: is defined.
?C:.
?H:#$d_setservent_r HAS_SETSERVENT_R /**/
?H:#define SETSERVENT_R_PROTO $setservent_r_proto /**/
?H:.
?T:try hdrs d_setservent_r_proto
: see if setservent_r exists
set setservent_r d_setservent_r
eval $inlibc
case "$d_setservent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_setservent_r_proto:$usethreads" in
 ":define") d_setservent_r_proto=define
  set d_setservent_r_proto setservent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_setservent_r_proto" in
 define)
 case "$setservent_r_proto" in
 "|0) try='int setservent_r(int, struct servent_data*);'
 ./protochk "$extern_C $try" $hdrs && setservent_r_proto=I_ID ;;
 esac
 case "$setservent_r_proto" in
 "|0) try='void
 setservent_r(int, struct servent_data*);'
 ./protochk "$extern_C $try" $hdrs && setservent_r_proto=V_ID ;;
 esac
 case "$setservent_r_proto" in
 "|0) d_setservent_r=undef
  setservent_r_proto=0
  echo "Disabling setservent_r, cannot determine prototype." >&4 ;;
 * ) case "$setservent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) setservent_r_proto="REENTRANT_PROTO_$setservent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
```

```
 *) case "$usethreads" in
  define) echo "setservent_r has no prototype, not using it." >&4 ;;
  esac
  d_setservent_r=undef
  setservent_r_proto=0
  ;;
 esac
 ;;
*) setservent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_setservent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_statfs_s: \
 Hasstruct i_sysparam i_sysmount i_systypes \
 i_sysvfs i_sysstatfs Setvar
?MAKE: -pick add $@ %<
?S:d_statfs_s:
?S: This variable conditionally defines the HAS_STRUCT_STATFS symbol,
?S: which indicates that the struct statfs is supported.
?S:.
?C:HAS_STRUCT_STATFS:
?C: This symbol, if defined, indicates that the struct statfs
?C: to do statfs() is supported.
?C:.
?H:#$d_statfs_s HAS_STRUCT_STATFS /**/
?H:.
?LINT:set d_statfs_s
: Check for statfs_s
echo " "
echo "Checking to see if your system supports struct statfs..." >&4
set d_statfs_s statfs $i_systypes sys/types.h $i_sysparam sys/param.h $i_sysmount sys/mount.h $i_sysvfs sys/vfs.h
$i_sysstatfs sys/statfs.h
eval $hasstruct
case "$d_statfs_s"
 in
"$define")      echo "Yes, it does."   ;;
```

```
*)          echo "No, it doesn't." ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_statfs_s.U
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```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Unix.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:20:06  ram
?RCS: patch61: created
?RCS:
?X:
?X: The purpose of this unit is to define things that are common across all
?X: known UNIX platforms. If Configure is ported/used on a non-UNIX
?X: environment, then some of the following variables can be redefined in hint
?X: files.
?X:
?MAKE:Unix _a _o firstmakefile archobjs: Oldconfig
?MAKE: -pick add $@ %<
?S:_a (lib_ext):
?S: This variable defines the extension
 used for ordinary libraries.
?S: For unix, it is '.a'.  The '.' is included.  Other possible
?S: values include '.lib'.
?S:.
?S:_o (obj_ext):
?S: This variable defines the extension used for object files.
?S: For unix, it is '.o'.  The '.' is included.  Other possible
?S: values include '.obj'.
?S:.
?S:firstmakefile:
?S: This variable defines the first file searched by make.  On unix,
?S: it is makefile (then Makefile).  On case-insensitive systems,
?S: it might be something else.  This is only used to deal with
?S: convoluted make depend tricks.
?S:.
```

```
?S:archobjs:
?S: This variable defines any additional objects that must be linked
?S: in with the program on this architecture.  On unix, it is usually
?S: empty.  It is typically used to include emulations of unix calls
?S: or other facilities.  For perl on OS/2, for example, this would
?S: include os2/os2.obj.
?S:.
?INIT:: Extra object files, if any, needed on this platform.
?INIT:archobjs=''
: Define several unixisms.
: Hints files
 or command line option can be used to override them.
case "$_a" in
'') _a='.a';;
esac
case "$_o" in
'') _o='.o';;
esac

@if firstmakefile
: Which makefile gets called first.  This is used by make depend.
case "$firstmakefile" in
'') firstmakefile='makefile';;
esac

@end
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Unix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_llroundl: Inlibc
?MAKE: -pick add $@ %<
?S:d_llroundl:
?S: This variable conditionally defines the HAS_LLROUNDL symbol, which
?S: indicates to the C program that the llroundl() routine is available
?S: to return the long long value nearest to x away from zero.
?S:.
?C:HAS_LLROUNDL:
?C: This symbol, if defined, indicates that the llroundl routine is
?C: available to return the nearest long long value away from zero of
?C: the long double argument value.
?C:.
?H:#$d_llroundl HAS_LLROUNDL  /**/
```

```
?H:.
?LINT:set d_llroundl
: see if llroundl exists
set llroundl d_llroundl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_llroundl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gmtime_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_gmtime_r gmtime_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_time i_systime extern_C
?MAKE: -pick add $@ %<
?S:d_gmtime_r:
?S: This variable conditionally defines the HAS_GMTIME_R symbol,
?S: which indicates to the C program that the gmtime_r()
?S: routine is available.
?S:.
?S:gmtime_r_proto:
?S: This variable encodes the prototype of gmtime_r.
?S: It is zero if d_gmtime_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gmtime_r
?S: is defined.
?S:.
?C:HAS_GMTIME_R:
?C: This symbol, if defined, indicates that the gmtime_r routine
?C: is available to gmtime re-entrantly.
?C:.
?C:GMTIME_R_PROTO:
?C: This
 symbol encodes the prototype of gmtime_r.
?C: It is zero if d_gmtime_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gmtime_r
?C: is defined.
?C:.
?H:#$d_gmtime_r HAS_GMTIME_R /**/
?H:#define GMTIME_R_PROTO $gmtime_r_proto /**/
?H:.
?T:try hdrs d_gmtime_r_proto
```

```
: see if gmtime_r exists
set gmtime_r d_gmtime_r
eval $inlibc
case "$d_gmtime_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_time time.h $i_systime sys/time.h"
 case "$d_gmtime_r_proto:$usethreads" in
 ":define") d_gmtime_r_proto=define
  set d_gmtime_r_proto gmtime_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_gmtime_r_proto" in
 define)
 case "$gmtime_r_proto" in
 "|0) try='struct tm* gmtime_r(const time_t*, struct tm*);'
 ./protochk "$extern_C $try" $hdrs && gmtime_r_proto=S_TS ;;
 esac
 case "$gmtime_r_proto" in
 "|0) try='int gmtime_r(const time_t*, struct tm*);'
 ./protochk "$extern_C $try" $hdrs && gmtime_r_proto=I_TS ;;
 esac
 case
 "$gmtime_r_proto" in
 "|0) d_gmtime_r=undef
  gmtime_r_proto=0
  echo "Disabling gmtime_r, cannot determine prototype." >&4 ;;
 * ) case "$gmtime_r_proto" in
  REENTRANT_PROTO*) ;;
  *) gmtime_r_proto="REENTRANT_PROTO_$gmtime_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "gmtime_r has no prototype, not using it." >&4 ;;
  esac
  d_gmtime_r=undef
  gmtime_r_proto=0
  ;;
 esac
 ;;
*) gmtime_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/threads/d_gmtime_r.U
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```
?RCS: $Id: d_ctime_r.U,v 0RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_ctime_r ctime_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_time i_systime extern_C
?MAKE: -pick add $@ %<
?S:d_ctime_r:
?S: This variable conditionally defines the HAS_CTIME_R symbol,
?S: which indicates to the C program that the ctime_r()
?S: routine is available.
?S:.
?S:ctime_r_proto:
?S: This variable encodes the prototype of ctime_r.
?S: It is zero if d_ctime_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_ctime_r
?S: is defined.
?S:.
?C:HAS_CTIME_R:
?C: This symbol, if defined, indicates that the ctime_r routine
?C: is available to ctime re-entrantly.
?C:.
?C:CTIME_R_PROTO:
?C: This
 symbol encodes the prototype of ctime_r.
?C: It is zero if d_ctime_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_ctime_r
?C: is defined.
?C:.
?H:#$d_ctime_r HAS_CTIME_R /**/
?H:#define CTIME_R_PROTO $ctime_r_proto /**/
?H:.
?T:try hdrs d_ctime_r_proto
: see if ctime_r exists
set ctime_r d_ctime_r
eval $inlibc
case "$d_ctime_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_time time.h $i_systime sys/time.h"
 case "$d_ctime_r_proto:$usethreads" in
 ":define") d_ctime_r_proto=define
```

```
 set d_ctime_r_proto ctime_r $hdrs
 eval $hasproto ;;
*) ;;
esac
case "$d_ctime_r_proto" in
define)
case "$ctime_r_proto" in
"|0) try='char* ctime_r(const time_t*, char*);'
./protochk "$extern_C $try" $hdrs && ctime_r_proto=B_SB ;;
esac
case "$ctime_r_proto" in
"|0) try='char* ctime_r(const time_t*, char*, int);'
./protochk "$extern_C $try" $hdrs && ctime_r_proto=B_SBI ;;
esac
case "$ctime_r_proto" in
"|0) try='int ctime_r(const
time_t*, char*);'
./protochk "$extern_C $try" $hdrs && ctime_r_proto=I_SB ;;
esac
case "$ctime_r_proto" in
"|0) try='int ctime_r(const time_t*, char*, int);'
./protochk "$extern_C $try" $hdrs && ctime_r_proto=I_SBI ;;
esac
case "$ctime_r_proto" in
"|0) d_ctime_r=undef
 ctime_r_proto=0
 echo "Disabling ctime_r, cannot determine prototype." >&4 ;;
* ) case "$ctime_r_proto" in
 REENTRANT_PROTO*) ;;
 *) ctime_r_proto="REENTRANT_PROTO_$ctime_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "ctime_r has no prototype, not using it." >&4 ;;
 esac
 d_ctime_r=undef
 ctime_r_proto=0
 ;;
esac
;;
*) ctime_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/threads/d_ctime_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:fflushNULL fflushall: Compile cat rm rm_try test osname run to from \
 Oldconfig Myread Setvar echo targethost \
 d_sysconf i_unistd d_stdio_stream_array stdio_stream_array i_stdlib
?MAKE: -pick add $@ %<
?S:fflushNULL:
?S: This symbol, if defined, tells that fflush(NULL) correctly
?S: flushes all pending stdio output without side effects. In
?S: particular, on some platforms calling fflush(NULL) *still*
?S: corrupts STDIN if it is a pipe.
?S:.
?S:fflushall:
?S: This symbol, if defined, tells that to flush
?S: all
 pending stdio output one must loop through all
?S: the stdio file handles stored in an array and fflush them.
?S: Note that if fflushNULL is defined, fflushall will not
?S: even be probed for and will be left undefined.
?S:.
?C:FFLUSH_NULL:
?C: This symbol, if defined, tells that fflush(NULL) correctly
?C: flushes all pending stdio output without side effects. In
?C: particular, on some platforms calling fflush(NULL) *still*
?C: corrupts STDIN if it is a pipe.
?C:.
?C:FFLUSH_ALL:
?C: This symbol, if defined, tells that to flush
?C: all pending stdio output one must loop through all
?C: the stdio file handles stored in an array and fflush them.
?C: Note that if fflushNULL is defined, fflushall will not
?C: even be probed for and will be left undefined.
?C:.
?H:#$fflushNULL FFLUSH_NULL  /**/
?H:#$fflushall FFLUSH_ALL  /**/
?H:.
?T:output code
```

```
?F:!try.out !try !tryp
: Check how to flush
echo " "
$cat >&4 <<EOM
Checking how to flush all pending stdio output...
EOM
# I only know how to find
 the first 32 possibly open files on SunOS.
# See also hints/sunos_4_1.sh and util.c  --AD
case "$osname" in
sunos) $echo '#define PERL_FFLUSH_ALL_FOPEN_MAX 32' > try.c ;;
esac
$cat >>try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_unistd I_UNISTD
#ifdef I_UNISTD
# include <unistd.h>
#endif
#$d_sysconf HAS_SYSCONF
#$d_stdio_stream_array HAS_STDIO_STREAM_ARRAY
#ifdef HAS_STDIO_STREAM_ARRAY
# define STDIO_STREAM_ARRAY $stdio_stream_array
#endif
int main() {
 FILE* p;
 unlink("try.out");
 p = fopen("try.out", "w");
#ifdef TRY_FPUTC
 fputc('x', p);
#else
# ifdef TRY_FPRINTF
 fprintf(p, "x");
# endif
#endif
#ifdef TRY_FFLUSH_NULL
 fflush(NULL);
#endif
#ifdef TRY_FFLUSH_ALL
 {
   long open_max = -1;
# ifdef PERL_FFLUSH_ALL_FOPEN_MAX
   open_max = PERL_FFLUSH_ALL_FOPEN_MAX;
# else
#  if defined(HAS_SYSCONF) && defined(_SC_OPEN_MAX)
```

```
   open_max = sysconf(_SC_OPEN_MAX);
#  else
#   ifdef FOPEN_MAX
   open_max = FOPEN_MAX;
#   else
#
    ifdef OPEN_MAX
   open_max = OPEN_MAX;
#    else
#     ifdef _NFILE
   open_max = _NFILE;
#     endif
#    endif
#   endif
#  endif
# endif
# ifdef HAS_STDIO_STREAM_ARRAY
   if (open_max > 0) {
     long i;
     for (i = 0; i < open_max; i++)
     if (STDIO_STREAM_ARRAY[i]._file >= 0 &&
  STDIO_STREAM_ARRAY[i]._file < open_max &&
  STDIO_STREAM_ARRAY[i]._flag)
  fflush(&STDIO_STREAM_ARRAY[i]);
   }
 }
# endif
#endif
 _exit(42);
}
EOCP
: first we have to find out how _not_ to flush
$to try.c
if $test "X$fflushNULL" = X -o "X$fflushall" = X; then
   output=''
   set try -DTRY_FPUTC
   if eval $compile; then
     $run ./try 2>/dev/null
     code="$?"
     $from try.out
     if $test ! -s try.out -a "X$code" = X42; then
  output=-DTRY_FPUTC
     fi
   fi
   case "$output" in
   '')
     set try -DTRY_FPRINTF
     if eval $compile; then
```

```
      $run ./try 2>/dev/null
      code="$?"
      $from try.out
      if $test ! -s try.out -a "X$code" = X42; then
   output=-DTRY_FPRINTF

    fi
     fi
 ;;
   esac
fi
: check for fflush NULL behavior
case "$fflushNULL" in
") set try -DTRY_FFLUSH_NULL $output
 if eval $compile; then
  $run ./try 2>/dev/null
  code="$?"
  $from try.out
  if $test -s try.out -a "X$code" = X42; then
   fflushNULL="`$cat try.out`"
  else
   if $test "X$code" != X42; then
    $cat >&4 <<EOM
(If this test failed, don't worry, we'll try another method shortly.)
EOM
   fi
  fi
 fi
 $rm -f core try.core core.try.*
 case "$fflushNULL" in
 x) $cat >&4 <<EOM
Your fflush(NULL) works okay for output streams.
Let's see if it clobbers input pipes...
EOM
# As of mid-March 2000 all versions of Solaris appear to have a stdio
# bug that improperly flushes the input end of pipes.  So we avoid the
# autoflush on fork/system/exec support for now. :-(
$cat >tryp.c <<EOCP
#include <stdio.h>
int
main(int argc, char **argv)
{
   char buf[1024];
   int i;
   char *bp = buf;
   while (1) {
 while ((i = getc(stdin)) != -1
        && (*bp++ = i) != '\n'
```

```
    && bp < &buf[1024])
 /* DO NOTHING */ ;
 *bp = '\0';
 fprintf(stdout, "%s", buf);
 fflush(NULL);
 if (i == -1)
    return 0;
 bp = buf;
   }
}
EOCP
  fflushNULL="$define"
  set tryp
  if eval $compile; then
     $rm -f tryp.out
     # Copy the .c file to the remote host ($to is an ssh-alike if targethost is set)
     if $test "X$targethost" != X; then
   $to tryp.c
   $to tryp
   $run "cat tryp.c | ./tryp " 2>/dev/null > tryp.out
     else
   $cat tryp.c | $run ./tryp   2>/dev/null > tryp.out
     fi
     if cmp tryp.c tryp.out >/dev/null 2>&1; then
        $cat >&4 <<EOM
fflush(NULL) seems to behave okay with input streams.
EOM
   fflushNULL="$define"
     else
   $cat >&4 <<EOM
Ouch, fflush(NULL) clobbers input pipes!  We will not use it.
EOM
   fflushNULL="$undef"
     fi
  fi
  $rm -f core tryp.c tryp.core core.tryp.*
  ;;
 ") $cat >&4 <<EOM
Your fflush(NULL) isn't working (contrary to ANSI C).
EOM
  fflushNULL="$undef"
  ;;
 *) $cat >&4 <<EOM
Cannot figure out whether
 your fflush(NULL) works or not.
I'm assuming it doesn't (contrary to ANSI C).
EOM
```

```
  fflushNULL="$undef"
  ;;
 esac
 ;;
$define|true|[yY]*)
 fflushNULL="$define"
 ;;
*)
 fflushNULL="$undef"
 ;;
esac
: check explicit looping only if NULL did not work, and if the pipe
: bug does not show up on an explicit flush too
case "$fflushNULL" in
"$undef")
 $cat >tryp.c <<EOCP
#include <stdio.h>
int
main(int argc, char **argv)
{
   char buf[1024];
   int i;
   char *bp = buf;
   while (1) {
 while ((i = getc(stdin)) != -1
        && (*bp++ = i) != '\n'
        && bp < &buf[1024])
 /* DO NOTHING */ ;
 *bp = '\0';
 fprintf(stdout, "%s", buf);
 fflush(stdin);
 if (i == -1)
     return 0;
 bp = buf;
   }
}
EOCP
 set tryp
 if eval $compile; then
     $rm -f tryp.out
     if $test "X$targethost" != X; then
  $to tryp.c
  $to tryp
  $run "cat tryp.c | ./tryp " 2>/dev/null > tryp.out
     else
  $cat tryp.c | $run ./tryp   2>/dev/null > tryp.out
     fi
     if cmp tryp.c tryp.out >/dev/null 2>&1;
```

```
 then
        $cat >&4 <<EOM
Good, at least fflush(stdin) seems to behave okay when stdin is a pipe.
EOM
  : now check for fflushall behaviour
  case "$fflushall" in
  ") set try -DTRY_FFLUSH_ALL $output
   if eval $compile; then
    $cat >&4 <<EOM
(Now testing the other method--but note that this also may fail.)
EOM
    $run ./try 2>/dev/null
    code=$?
    $from try.out
    if $test -s try.out -a "X$code" = X42; then
     fflushall="`$cat try.out`"
    fi
   fi
   $rm_try
   case "$fflushall" in
   x) $cat >&4 <<EOM
Whew. Flushing explicitly all the stdio streams works.
EOM
    fflushall="$define"
    ;;
   ") $cat >&4 <<EOM
Sigh. Flushing explicitly all the stdio streams doesn't work.
EOM
    fflushall="$undef"
    ;;
   *) $cat >&4 <<EOM
Cannot figure out whether flushing stdio streams explicitly works or not.
I'm assuming it doesn't.
EOM
    fflushall="$undef"
    ;;
   esac
   ;;
  "$define"|true|[yY]*)
   fflushall="$define"
   ;;
  *)
   fflushall="$undef"
   ;;
  esac

 else
  $cat >&4 <<EOM
```

```
All is futile.  Even fflush(stdin) clobbers input pipes!
EOM
  fflushall="$undef"
     fi
 else
     fflushall="$undef"
 fi
 $rm -f core tryp.c tryp.core core.tryp.*
 ;;
*) fflushall="$undef"
 ;;
esac

case "$fflushNULL$fflushall" in
undefundef)
 $cat <<EOM
OK, I give up.  I cannot figure out how to flush pending stdio output.
We won't be flushing handles at all before fork/exec/popen.
EOM
 ;;
esac
$rm_try tryp
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/fflushall.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_stat.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_stat.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:28  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_stat: Inlibc
?MAKE: -pick add $@ %<
?S:d_stat:
?S: This variable conditionally defines HAS_STAT if stat() is
?S: available to get file status.
?S:.
```

```
?C:HAS_STAT (STAT):
?C: This symbol, if defined, indicates that the stat routine is
?C: available to get file status.
?C:.
?H:#$d_stat HAS_STAT /**/
?H:.
?LINT:set d_stat
: see if stat exists
set
 stat d_stat
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_stat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_readdir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_readdir.U,v $
?RCS: Revision 3.0.1.1  1994/05/06  14:46:37  ram
?RCS: patch23: added support for seekdir, telldir and rewinddir (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X: Force checking for <dirent.h> inclusion
?X:INC: i_dirent
?MAKE:d_readdir d_seekdir d_telldir d_rewinddir: Inlibc
?MAKE: -pick add $@ %<
?S:d_readdir:
?S: This variable conditionally defines HAS_READDIR if readdir()
 is
?S: available to read directory entries.
?S:.
?C:HAS_READDIR (READDIR):
?C: This symbol, if defined, indicates that the readdir routine is
?C: available to read directory entries. You may have to include
?C: <dirent.h>. See I_DIRENT.
?C:.
```

```
?H:#$d_readdir HAS_READDIR  /**/
?H:.
?S:d_seekdir:
?S: This variable conditionally defines HAS_SEEKDIR if seekdir() is
?S: available.
?S:.
?C:HAS_SEEKDIR:
?C: This symbol, if defined, indicates that the seekdir routine is
?C: available. You may have to include <dirent.h>. See I_DIRENT.
?C:.
?H:#$d_seekdir HAS_SEEKDIR  /**/
?H:.
?S:d_telldir:
?S: This variable conditionally defines HAS_TELLDIR if telldir() is
?S: available.
?S:.
?C:HAS_TELLDIR:
?C: This symbol, if defined, indicates that the telldir routine is
?C: available. You may have to include <dirent.h>. See I_DIRENT.
?C:.
?H:#$d_telldir HAS_TELLDIR  /**/
?H:.
?S:d_rewinddir:
?S: This variable conditionally defines HAS_REWINDDIR if rewinddir() is
?S: available.
?S:.
?C:HAS_REWINDDIR:
?C: This
 symbol, if defined, indicates that the rewinddir routine is
?C: available. You may have to include <dirent.h>. See I_DIRENT.
?C:.
?H:#$d_rewinddir HAS_REWINDDIR  /**/
?H:.
?LINT:set d_readdir d_seekdir d_telldir d_rewinddir
: see if readdir and friends exist
set readdir d_readdir
eval $inlibc
@if d_seekdir || HAS_SEEKDIR
set seekdir d_seekdir
eval $inlibc
@end
@if d_telldir || HAS_TELLDIR
set telldir d_telldir
eval $inlibc
@end
@if d_rewinddir || HAS_REWINDDIR
set rewinddir d_rewinddir
eval $inlibc
```

```
@end

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_readdir.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: doublesize.U,v 3.0.1.1 1994/10/29 16:17:06 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: doublesize.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:17:06  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:06  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:doublesize: cat rm_try Myread Compile run i_stdlib
?MAKE: -pick add $@ %<
?S:doublesize:
?S: This variable contains the value of the DOUBLESIZE symbol, which
?S: indicates to the C program how many bytes there are in a double.
?S:.
?C:DOUBLESIZE:
?C: This
 symbol contains the size of a double, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define DOUBLESIZE $doublesize  /**/
?H:.
?F:!try
: check for length of double
echo " "
case "$doublesize" in
")
 echo "Checking to see how big your double precision numbers are..." >&4
 $cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
```

```
#endif
int main()
{
   printf("%d\n", (int)sizeof(double));
   exit(0);
}
EOCP
 set try
 if eval $compile_ok; then
  doublesize=`$run ./try`
  echo "Your double is $doublesize bytes long."
 else
  dflt='8'
  echo "(I can't seem to compile the test program.  Guessing...)"
  rp="What is the size of a double precision number (in bytes)?"
  . ./myread
  doublesize="$ans"
 fi
 ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/doublesize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: baserev.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: baserev.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:baserev: Null
?MAKE: -pick wipe $@ %<
?S:baserev:
?S: The base revision level of this package, from the .package file.
?S:.
: set the base revision
baserev=<BASEREV>
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/baserev.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_malloc.U,v 3.1 2003/01/21 18:51:51 merijn Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: i_malloc.U,v $
?RCS: Revision 3.1  2003/01/21  18:51:51  merijn
?RCS: Moved to modified: Ihdr replaced with Compile
?RCS:
?RCS: $Log: i_malloc.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:21  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_malloc: cat rm_try Compile Setvar i_mallocmalloc
?MAKE: -pick add $@ %<
?S:i_malloc:
?S: This variable conditionally defines the I_MALLOC symbol, and indicates
?S: whether a C program should include <malloc.h>.
?S:.
?C:I_MALLOC:
?C: This
 symbol, if defined, indicates to the C program that it should
?C: include <malloc.h>.
?C:.
?H:#$i_malloc I_MALLOC  /**/
?H:.
?LINT:set i_malloc
: see if this is a malloc.h system
: we want a real compile instead of Inhdr because some systems have a
: malloc.h that just gives a compile error saying to use stdlib.h instead
echo " "
$cat >try.c <<EOCP
#include <stdlib.h>
#include <malloc.h>
#$i_mallocmalloc I_MALLOCMALLOC
#ifdef I_MALLOCMALLOC
# include <malloc/malloc.h>
```

```
#endif

int main () { return 0; }
EOCP
set try
if eval $compile; then
   echo "<malloc.h> found." >&4
   val="$define"
else
   echo "<malloc.h> NOT found." >&4
   val="$undef"
fi
$rm_try
set i_malloc
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_malloc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2017, Lukas Mai
?RCS:
?RCS: You may distribute this file under the terms of either
?RCS:     a) the "Artistic License" which comes with Perl, or
?RCS:     b) the "Artistic License" which comes with dist, or
?RCS:     c) the GNU General Public License as published by the Free
?RCS:     Software Foundation; either version 1, or (at your option) any
?RCS:     later version (see the file "Copying" that comes with the
?RCS:     Perl distribution).
?RCS: Which one to use is your choice.
?RCS: See the U/README file.
?MAKE:d_builtin_add_overflow d_builtin_sub_overflow d_builtin_mul_overflow : Compile Setvar cat run rm_try
?MAKE: -pick add $@ %<
?S:d_builtin_add_overflow:
?S: This variable conditionally defines HAS_BUILTIN_ADD_OVERFLOW, which
?S: indicates that the compiler supports __builtin_add_overflow(x,y,&z)
?S: for safely adding x and y into z while checking for overflow.
?S:.
?S:d_builtin_sub_overflow:
?S: This
 variable conditionally defines HAS_BUILTIN_SUB_OVERFLOW, which
?S: indicates that the compiler supports __builtin_sub_overflow(x,y,&z)
?S: for safely subtracting y from x into z while checking for overflow.
?S:.
?S:d_builtin_mul_overflow:
?S: This variable conditionally defines HAS_BUILTIN_MUL_OVERFLOW, which
?S: indicates that the compiler supports __builtin_mul_overflow(x,y,&z)
```

```
?S: for safely multiplying x and y into z while checking for overflow.
?S:.
?C:HAS_BUILTIN_ADD_OVERFLOW:
?C: This symbol, if defined, indicates that the compiler supports
?C: __builtin_add_overflow for adding integers with overflow checks.
?C:.
?C:HAS_BUILTIN_SUB_OVERFLOW:
?C: This symbol, if defined, indicates that the compiler supports
?C: __builtin_sub_overflow for subtracting integers with overflow checks.
?C:.
?C:HAS_BUILTIN_MUL_OVERFLOW:
?C: This symbol, if defined, indicates that the compiler supports
?C: __builtin_mul_overflow for multiplying integers with overflow checks.
?C:.
?H:#$d_builtin_add_overflow
 HAS_BUILTIN_ADD_OVERFLOW /**/
?H:#$d_builtin_sub_overflow HAS_BUILTIN_SUB_OVERFLOW /**/
?H:#$d_builtin_mul_overflow HAS_BUILTIN_MUL_OVERFLOW /**/
?H:.
?F:!try
?LINT:set d_builtin_add_overflow d_builtin_sub_overflow d_builtin_mul_overflow
: Look for GCC-style __builtin_add_overflow
case "$d_builtin_add_overflow" in
")
  echo " "
  echo "Checking whether your compiler can handle __builtin_add_overflow ..." >&4
  $cat >try.c <<'EOCP'
int main(void) {
  const unsigned int uint_max = ~0u;
  int target_int = 0;
  if (__builtin_add_overflow(1, 2, &target_int) || target_int != 3) {
     return 1;
  }
  if (!__builtin_add_overflow((int)(uint_max >> 1), 1, &target_int)) {
     return 1;
  }
  if (!__builtin_add_overflow(uint_max, -1, &target_int)) {
     return 1;
  }
  return 0;
}
EOCP
  set try
  if eval $compile && $run ./try; then
     echo "Your C compiler supports __builtin_add_overflow."
     val="$define"
  else
     echo
```

```
 "Your C compiler doesn't seem to understand __builtin_add_overflow."
      val="$undef"
   fi
   ;;
*) val="$d_builtin_add_overflow" ;;
esac

set d_builtin_add_overflow
eval $setvar
$rm_try

: Look for GCC-style __builtin_sub_overflow
case "$d_builtin_sub_overflow" in
")
   echo " "
   echo "Checking whether your compiler can handle __builtin_sub_overflow ..." >&4
   $cat >try.c <<'EOCP'
int main(void) {
   const unsigned int uint_max = ~0u;
   int target_int = 0;
   if (__builtin_sub_overflow(1, -2, &target_int) || target_int != 3) {
      return 1;
   }
   if (!__builtin_sub_overflow(-(int)(uint_max >> 1), 2, &target_int)) {
      return 1;
   }
   if (!__builtin_sub_overflow(uint_max, 1, &target_int)) {
      return 1;
   }
   return 0;
}
EOCP
   set try
   if eval $compile && $run ./try; then
      echo "Your C compiler supports __builtin_sub_overflow."
      val="$define"
   else
      echo "Your C compiler doesn't seem to understand __builtin_sub_overflow."
       val="$undef"
   fi
   ;;
*) val="$d_builtin_sub_overflow" ;;
esac

set d_builtin_sub_overflow
eval $setvar
$rm_try
```

```
: Look for GCC-style __builtin_mul_overflow
case "$d_builtin_mul_overflow" in
")
  echo " "
  echo "Checking whether your compiler can handle __builtin_mul_overflow ..." >&4
  $cat >try.c <<'EOCP'
int main(void) {
  const unsigned int uint_max = ~0u;
  int target_int = 0;
  if (__builtin_mul_overflow(2, 3, &target_int) || target_int != 6) {
     return 1;
  }
  if (!__builtin_mul_overflow((int)(uint_max >> 1), 2, &target_int)) {
     return 1;
  }
  if (!__builtin_mul_overflow(uint_max, 1, &target_int)) {
     return 1;
  }
  return 0;
}
EOCP
  set try
  if eval $compile && $run ./try; then
     echo "Your C compiler supports __builtin_mul_overflow."
     val="$define"
  else
     echo "Your C compiler doesn't seem to understand __builtin_mul_overflow."
     val="$undef"
  fi
  ;;
*) val="$d_builtin_mul_overflow"
 ;;
esac

set d_builtin_mul_overflow
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_builtin_overflow.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_hypot: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_hypot:
?S: This variable conditionally defines HAS_HYPOT if hypot is available
?S: for numerically stable hypotenuse function.
?S:.
?C:HAS_HYPOT:
?C: This symbol, if defined, indicates that the hypot routine is
?C: available to do the hypotenuse function.
?C:.
?H:#$d_hypot HAS_HYPOT  /**/
?H:.
?LINT:set d_hypot
: see if hypot exists
set hypot d_hypot
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_hypot.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_syswait.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_syswait.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit looks wether <sys/wait.h> is available or not
?X:
?MAKE:i_syswait: Inhdr
?MAKE: -pick add $@ %<
?S:i_syswait:
?S: This variable conditionally defines I_SYS_WAIT, which indicates
?S: to the C program that it should include <sys/wait.h>.
?S:.
?C:I_SYS_WAIT (I_SYSWAIT):
?C: This symbol, if defined, indicates to the C program
 that it should
?C: include <sys/wait.h>.
?C:.
```

```
?H:#$i_syswait I_SYS_WAIT /**/
?H:.
?LINT:set i_syswait
: see if this is a syswait system
set sys/wait.h i_syswait
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_syswait.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_sbrkproto: Hasproto i_unistd
?MAKE: -pick add $@ %<
?S:d_sbrkproto:
?S: This variable conditionally defines the HAS_SBRK_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the sbrk() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_SBRK_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the sbrk() function.  Otherwise, it is up
?C: to the program to supply one.  Good guesses are
?C:  extern void* sbrk(int);
?C:  extern
 void* sbrk(size_t);
?C:.
?H:#$d_sbrkproto HAS_SBRK_PROTO /**/
?H:.
?LINT:set d_sbrkproto
: see if prototype for sbrk is available
echo " "
set d_sbrkproto sbrk $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/perl/d_sbrkproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getcwd: Inlibc
?MAKE: -pick add $@ %<
?S:d_getcwd:
?S: This variable conditionally defines the HAS_GETCWD symbol, which
?S: indicates to the C program that the getcwd() routine is available
?S: to get the current working directory.
?S:.
?C:HAS_GETCWD :
?C: This symbol, if defined, indicates that the getcwd routine is
?C: available to get the current working directory.
?C:.
?H:#$d_getcwd HAS_GETCWD  /**/
?H:.
?LINT:set d_getcwd
: see if getcwd exists
set getcwd d_getcwd
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_getcwd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2006-2007, H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_builtin_choose_expr d_builtin_expect : Compile Setvar cat run rm_try
?MAKE: -pick add $@ %<
?S:d_builtin_choose_expr:
?S: This conditionally defines HAS_BUILTIN_CHOOSE_EXPR, which
?S: indicates that the compiler supports __builtin_choose_expr(x,y,z).
?S: This built-in function is analogous to the "x?y:z" operator in C,
?S: except that the expression returned has its type unaltered by
```

```
?S: promotion rules. Also, the built-in function does not evaluate
?S: the expression that was not chosen.
?S:.
?S:d_builtin_expect:
?S: This conditionally
 defines HAS_BUILTIN_EXPECT, which indicates
?S: that the compiler supports __builtin_expect(exp,c).  You may use
?S: __builtin_expect to provide the compiler with branch prediction
?S: information.
?S:.
?C:HAS_BUILTIN_CHOOSE_EXPR:
?C: Can we handle GCC builtin for compile-time ternary-like expressions
?C:.
?C:HAS_BUILTIN_EXPECT:
?C: Can we handle GCC builtin for telling that certain values are more
?C: likely
?C:.
?H:#$d_builtin_expect HAS_BUILTIN_EXPECT /**/
?H:#$d_builtin_choose_expr HAS_BUILTIN_CHOOSE_EXPR /**/
?H:.
?F:!try
?LINT:set d_builtin_expect d_builtin_choose_expr
: Look for GCC-style __builtin_choose_expr
case "$d_builtin_choose_expr" in
")
   echo " "
   echo "Checking whether your compiler can handle __builtin_choose_expr ..." >&4
   $cat >try.c <<'EOCP'
#include <assert.h>
#include <stdlib.h>
#include <stdio.h>

#define SYRINX(x) __builtin_choose_expr( x, (1056*2), (103*50) )

int main(void) {
   assert( SYRINX(1) == 2112 );
   assert( SYRINX(1) != 5150 );
    assert( SYRINX(0) == 5150 );
   assert( SYRINX(0) != 2112 );
   puts( "All good!" );
   exit(0);
}

EOCP
   set try
   if eval $compile && $run ./try; then
 echo "Your C compiler supports __builtin_choose_expr."
 val="$define"
```

```
   else
 echo "Your C compiler doesn't seem to understand __builtin_choose_expr."
 val="$undef"
   fi
;;
*) val="$d_builtin_choose_expr" ;;
esac

set d_builtin_choose_expr
eval $setvar
$rm_try

: Look for GCC-style __builtin_expect
case "$d_builtin_expect" in
")
   echo " "
   echo "Checking whether your compiler can handle __builtin_expect ..." >&4
   $cat >try.c <<'EOCP'
int main(void) {
   int n = 50;
   if ( __builtin_expect(n, 0) ) n = 1;
   /* Remember shell exit code truth is 0, C truth is non-zero */
   return !(n == 1);
}
EOCP
   set try
   if eval $compile && $run ./try; then
 echo "Your C compiler supports __builtin_expect."
 val="$define"
   else
 echo "Your C compiler doesn't seem to understand __builtin_expect."
 val="$undef"
    fi
   ;;
*) val="$d_builtin_expect" ;;
esac

set d_builtin_expect
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_builtin.U
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: models.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:13:17  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:02:39  ram
?RCS: patch6: added default for large
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:models split small medium large huge: test cat Myread sysman Oldconfig \
 Loc Warn contains rm
?MAKE: -pick add $@ %<
?S:models:
?S: This variable contains the list of memory models supported by
 this
?S: system.  Possible component values are none, split, unsplit, small,
?S: medium, large, and huge.  The component values are space separated.
?S:.
?S:split:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program that will run in separate I and D space, for those
?S: machines that support separation of instruction and data space.  It is
?S: up to the Makefile to use this.
?S:.
?S:small:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program running with a small memory model.  It is up to
?S: the Makefile to use this.
?S:.
?S:medium:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program running with a medium memory model.  If the
?S: medium model is not supported, contains the flag to produce large
?S: model programs.  It is up to the Makefile to use this.
?S:.
?S:large:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to
```

```
 produce a program running with a large memory model.  It is up to
?S: the Makefile to use this.
?S:.
?S:huge:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program running with a huge memory model.  If the
?S: huge model is not supported, contains the flag to produce large
?S: model programs.  It is up to the Makefile to use this.
?S:.
?T:unsplit tans modelcc
?F:!pdp11
?D:large=''
?LINT:extern cc
: see what memory models we can support
case "$models" in
'')
?X: We may not use Cppsym or we get a circular dependency through cc.
?X: But this should work regardless of which cc we eventually use.
 $cat >pdp11.c <<'EOP'
int main() {
#ifdef pdp11
 exit(0);
#else
 exit(1);
#endif
}
EOP
?X: Run cc in a subshell in case they don't have a 'cc' command.
?X: Presumably they do have gcc or something.
 case "$cc" in
 '') modelcc="$cc" ;;
 *) modelcc="cc" ;;
 esac
 ( $modelcc -o pdp11 pdp11.c ) >/dev/null 2>&1
 if $test -f pdp11 && ./pdp11 2>/dev/null;
 then
  dflt='unsplit split'
 else
  tans=`./loc . X /lib/small /lib/large /usr/lib/small /usr/lib/large /lib/medium /usr/lib/medium /lib/huge`
  case "$tans" in
  X) dflt='none';;
  *) if $test -d /lib/small || $test -d /usr/lib/small; then
    dflt='small'
   else
    dflt=''
   fi
   if $test -d /lib/medium || $test -d /usr/lib/medium; then
    dflt="$dflt medium"
```

```
   fi
   if $test -d /lib/large || $test -d /usr/lib/large; then
    dflt="$dflt large"
   fi
   if $test -d /lib/huge || $test -d /usr/lib/huge; then
    dflt="$dflt huge"
   fi
  esac
 fi;;
*) dflt="$models";;
esac
$cat <<EOM

Some systems have different model sizes.  On most systems they are called
small, medium, large, and huge.  On the PDP11 they are called unsplit and
split.  If your system doesn't support different memory models, say "none".
If you wish to force everything to one memory model, say "none" here and
put the appropriate flags later when it asks you for other cc and ld flags.
Venix systems may wish
 to put "none" and let the compiler figure things out.
(In the following question multiple model names should be space separated.)

The default for most systems is "none".

EOM
rp="Which memory models are supported?"
. ./myread
models="$ans"

case "$models" in
none)
 small="
 medium="
 large="
 huge="
 unsplit="
 split="
 ;;
*split)
 case "$split" in
 ") if $contains '\-i' $sysman/ld.1 >/dev/null 2>&1 || \
    $contains '\-i' $sysman/cc.1 >/dev/null 2>&1; then
   dflt='-i'
  else
   dflt='none'
  fi;;
 *) dflt="$split";;
 esac
```

```
rp="What flag indicates separate I and D space?"
. ./myread
tans="$ans"
case "$tans" in
none) tans=";;
esac
split="$tans"
unsplit=";;
*large*|*small*|*medium*|*huge*)
case "$models" in
*large*)
 case "$large" in
 ") dflt='-Ml';;
 *) dflt="$large";;
 esac
rp="What flag indicates large model?"
. ./myread
tans="$ans"
case "$tans" in
none) tans=";
esac
large="$tans";;
*) large=";;
esac
case "$models" in
*huge*) case "$huge" in
 ")
dflt='-Mh';;
 *) dflt="$huge";;
 esac
 rp="What flag indicates huge model?"
 . ./myread
 tans="$ans"
 case "$tans" in
 none) tans=";
 esac
 huge="$tans";;
*) huge="$large";;
esac
case "$models" in
*medium*) case "$medium" in
 ") dflt='-Mm';;
 *) dflt="$medium";;
 esac
 rp="What flag indicates medium model?"
 . ./myread
 tans="$ans"
 case "$tans" in
```

```
 none) tans='';
 esac
 medium="$tans";;
*) medium="$large";;
esac
case "$models" in
*small*) case "$small" in
 '') dflt='none';;
 *) dflt="$small";;
 esac
 rp="What flag indicates small model?"
 . ./myread
 tans="$ans"
 case "$tans" in
 none) tans='';
 esac
 small="$tans";;
*) small='';;
esac
;;
*)
 ./warn "Unrecognized memory models--you may have to edit Makefile.SH"
 ;;
esac
$rm -f pdp11.* pdp11
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/models.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysmman.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:11:20  ram
?RCS: patch16: created
?RCS:
?X:
?X: Look wether <sys/mman.h> needs to be included.
?X:
```

```
?MAKE:i_sysmman: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysmman:
?S: This variable conditionally defines the I_SYS_MMAN symbol,
?S: and indicates whether a C program should include <sys/mman.h>.
?S:.
?C:I_SYS_MMAN:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/mman.h>.
?C:.
?H:#$i_sysmman I_SYS_MMAN  /**/
?H:.
?LINT:set
 i_sysmman
: see if sys/mman.h has to be included
set sys/mman.h i_sysmman
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sysmman.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: selecttype.U,v 3.0.1.3 1997/02/28 16:20:09 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: selecttype.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:20:09  ram
?RCS: patch61: always include <sys/select.h> when available for test
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  14:14:06  ram
?RCS: patch56: removed harmful spaces in assignment
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:06:31  ram
?RCS: patch30: created by ADO
?RCS:
?MAKE:selecttype: Protochk Oldconfig Myread cat
 \
 d_fd_set d_select d_socket i_systime i_sysselct extern_C
```

```
?MAKE: -pick add $@ %<
?S:selecttype:
?S: This variable holds the type used for the 2nd, 3rd, and 4th
?S: arguments to select.  Usually, this is 'fd_set *', if HAS_FD_SET
?S: is defined, and 'int *' otherwise.  This is only useful if you
?S: have select(), naturally.
?S:.
?C:Select_fd_set_t:
?C: This symbol holds the type used for the 2nd, 3rd, and 4th
?C: arguments to select.  Usually, this is 'fd_set *', if HAS_FD_SET
?C: is defined, and 'int *' otherwise.  This is only useful if you
?C: have select(), of course.
?C:.
?H:#define Select_fd_set_t $selecttype /**/
?H:.
?T:xxx nfd tmo try hdrs val
: check for type of arguments to select.
case "$selecttype" in
") case "$d_select" in
 $define)
  echo " "
  $cat <<EOM
Checking to see what type of arguments are accepted by select().
EOM
  hdrs="$define sys/types.h
   $i_systime sys/time.h
   $i_sysselct sys/select.h
   $d_socket sys/socket.h"
  : The first arg can be int, unsigned,
 or size_t
  : The last arg may or may not be 'const'
  val="
  : void pointer has been seen but using that
  : breaks the selectminbits test
  for xxx in 'fd_set *' 'int *'; do
   for nfd in 'int' 'size_t' 'unsigned long' 'unsigned' ; do
    for tmo in 'struct timeval *' 'const struct timeval *'; do
     case "$val" in
     ") try="$extern_C select _(($nfd, $xxx, $xxx, $xxx, $tmo));"
      if ./protochk "$try" $hdrs; then
       echo "Your system accepts $xxx."
       val="$xxx"
      fi
      ;;
     esac
    done
   done
  done
```

```
?X: In the unlikely event that none of those worked, prompt the user.
  case "$val" in
  ") rp='What is the type for the 2nd, 3rd, and 4th arguments to select?'
   case "$d_fd_set" in
    $define) dflt="fd_set *" ;;
    *)  dflt="int *" ;;
   esac
   . ./myread
   val=$ans
   ;;
  esac
  selecttype="$val"
  ;;
 *) : no select, so pick a harmless default
  selecttype='int *'
  ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/selecttype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_string.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_string.U,v $
?RCS: Revision 3.0.1.2  1993/10/16  13:50:12  ram
?RCS: patch12: special units Loc and Guess were missing from dependencies
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:07:26  ram
?RCS: patch10: removed "(Actually, this looks more like...)" messages (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:28  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: See if we should include <string.h> or <strings.h>
?X:
```

```
?MAKE:i_string strings:
 test Setvar Findhdr Warn
?MAKE: -pick add $@ %<
?S:i_string:
?S: This variable conditionally defines the I_STRING symbol, which
?S: indicates that <string.h> should be included rather than <strings.h>.
?S:.
?S:strings:
?S: This variable holds the full path of the string header that will be
?S: used. Typically /usr/include/string.h or /usr/include/strings.h.
?S:.
?C:I_STRING:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <string.h> (USG systems) instead of <strings.h> (BSD systems).
?C:.
?H:#$i_string I_STRING  /**/
?H:.
?LINT:set i_string
: see which of string.h or strings.h is needed
echo " "
strings=`./findhdr string.h`
if $test "$strings" && $test -r "$strings"; then
 echo "Using <string.h> instead of <strings.h>." >&4
 val="$define"
else
 val="$undef"
 strings=`./findhdr strings.h`
 if $test "$strings" && $test -r "$strings"; then
  echo "Using <strings.h> instead of <string.h>." >&4
 else
  ./warn "No string header found -- You'll surely
 have problems."
 fi
fi
set i_string
eval $setvar
case "$i_string" in
"$undef") strings=`./findhdr strings.h`;;
*)   strings=`./findhdr string.h`;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_string.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_dosuid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Tye McQueen <tye@metronet.com> added safe setuid script checks.
?RCS:
?RCS: $Log: d_dosuid.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:33:03  ram
?RCS: patch61: moved unit to TOP via a ?Y: layout directive
?RCS: patch61: tell them /dev/fd is not about floppy disks
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:12:08  ram
?RCS: patch36: added checks for secure setuid scripts (Tye McQueen)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:55  ram
?RCS: Baseline for
 dist 3.0 netwide release.
?RCS:
?MAKE:d_dosuid d_suidsafe: cat contains ls rm test Myread Setvar \
 Oldconfig Guess package hint patchlevel
?MAKE: -pick add $@ %<
?S:d_suidsafe:
?S: This variable conditionally defines SETUID_SCRIPTS_ARE_SECURE_NOW
?S: if setuid scripts can be secure.  This test looks in /dev/fd/.
?S:.
?S:d_dosuid:
?S: This variable conditionally defines the symbol DOSUID, which
?S: tells the C program that it should insert setuid emulation code
?S: on hosts which have setuid #! scripts disabled.
?S:.
?C:SETUID_SCRIPTS_ARE_SECURE_NOW:
?C: This symbol, if defined, indicates that the bug that prevents
?C: setuid scripts from being secure is not present in this kernel.
?C:.
?C:DOSUID:
?C: This symbol, if defined, indicates that the C program should
?C: check the script that it is executing for setuid/setgid bits, and
?C: attempt to emulate setuid/setgid on systems that have disabled
?C: setuid #! scripts because the kernel can't do it securely.
?C: It is up to the package
 designer to make sure that this emulation
?C: is done securely.  Among other things, it should do an fstat on
?C: the script it just opened to make sure it really is a setuid/setgid
?C: script, it should make sure the arguments passed correspond exactly
```

```
?C: to the argument on the #! line, and it should not trust any
?C: subprocesses to which it must pass the filename rather than the
?C: file descriptor of the script to be executed.
?C:.
?H:#$d_suidsafe SETUID_SCRIPTS_ARE_SECURE_NOW /**/
?H:#$d_dosuid DOSUID  /**/
?H:.
?Y:TOP
?F:!reflect
?LINT: set d_suidsafe
: see if setuid scripts can be secure
$cat <<EOM

Some kernels have a bug that prevents setuid #! scripts from being
secure.  Some sites have disabled setuid #! scripts because of this.

First let's decide if your kernel supports secure setuid #! scripts.
(If setuid #! scripts would be secure but have been disabled anyway,
don't say that they are secure if asked.)

EOM

val="$undef"
if $test -d /dev/fd; then
 echo "#!$ls" >reflect
 chmod
 +x,u+s reflect
 ./reflect >flect 2>&1
 if $contains "/dev/fd" flect >/dev/null; then
  echo "Congratulations, your kernel has secure setuid scripts!" >&4
  val="$define"
 else
  $cat <<EOM
If you are not sure if they are secure, I can check but I'll need a
username and password different from the one you are using right now.
If you don't have such a username or don't want me to test, simply
enter 'none'.

EOM
  rp='Other username to test security of setuid scripts with?'
  dflt='none'
  . ./myread
  case "$ans" in
  n|none)
   case "$d_suidsafe" in
   ") echo "I'll assume setuid scripts are *not* secure." >&4
    dflt=n;;
   "$undef")
```

```
    echo "Well, the $hint value is *not* secure." >&4
    dflt=n;;
   *) echo "Well, the $hint value *is* secure." >&4
    dflt=y;;
   esac
   ;;
  *)
   $rm -f reflect flect
   echo "#!$ls" >reflect
   chmod +x,u+s reflect
   echo >flect
   chmod a+w flect
   echo '"su" will (probably) prompt you for "$ans's password."
   su $ans -c './reflect
 >flect'
   if $contains "/dev/fd" flect >/dev/null; then
    echo "Okay, it looks like setuid scripts are secure." >&4
    dflt=y
   else
    echo "I don't think setuid scripts are secure." >&4
    dflt=n
   fi
   ;;
  esac
  rp='Does your kernel have *secure* setuid scripts?'
  . ./myread
  case "$ans" in
  [yY]*) val="$define";;
  *) val="$undef";;
  esac
 fi
else
 echo "I don't think setuid scripts are secure (no /dev/fd directory)." >&4
 echo "(That's for file descriptors, not floppy disks.)"
 val="$undef"
fi
set d_suidsafe
eval $setvar

$rm -f reflect flect

: now see if they want to do setuid emulation
if $test $patchlevel -lt 11; then
echo " "
val="$undef"
case "$d_suidsafe" in
"$define")
 val="$undef"
```

```
 echo "No need to emulate SUID scripts since they are secure here." >&4
 ;;
*)
 $cat <<EOM
Some systems have disabled setuid scripts, especially systems where
setuid scripts cannot be secure.  On systems where setuid scripts have
been disabled, the setuid/setgid bits on scripts are
 currently
useless.  It is possible for $package to detect those bits and emulate
setuid/setgid in a secure fashion.  This emulation will only work if
setuid scripts have been disabled in your kernel.

EOM
 case "$d_dosuid" in
 "$define") dflt=y ;;
 *) dflt=n ;;
 esac
 rp="Do you want to do setuid/setgid emulation?"
 . ./myread
 case "$ans" in
 [yY]*) val="$define";;
 *) val="$undef";;
 esac
 ;;
esac
set d_dosuid
eval $setvar
else
   case "$d_dosuid" in
 "$define")
 cat >&4 <<EOH

SUID emulation has been removed for 5.12
Please re-run Configure without -Dd_dosuid

EOH
 exit 1;
 ;;
   esac
   d_dosuid=undef
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_dosuid.U
No license file was found, but licenses were detected in source scan.

?RCS: Id

```
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_attribut.U,v $
?RCS: Revision 3.0.1.3  1995/01/30  14:33:45  ram
?RCS: patch49: test C program now includes <stdio.h> (WED)
?RCS:
?RCS: Revision 3.0.1.2  1995/01/11  15:25:47  ram
?RCS: patch45: fixed typo in the d_attribut variable (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:08:55  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_attribut: Myread Oldconfig cat cc ccflags rm Setvar contains
?MAKE: -pick add $@ %<
?S:d_attribut
 (d_attrib):
?S: This variable conditionally defines HASATTRIBUTE, which
?S: indicates the C compiler can check for function attributes,
?S: such as printf formats.
?S:.
?C:HASATTRIBUTE ~ %< (GNUC_ATTRIBUTE_CHECK):
?C: This symbol indicates the C compiler can check for function attributes,
?C: such as printf formats. This is normally only supported by GNU cc.
?C:.
?H:?%<:#$d_attribut HASATTRIBUTE  /**/
?H:?%<:#ifndef HASATTRIBUTE
?H:?%<:#define __attribute__(_arg_)
?H:?%<:#endif
?H:.
?W:%<:__attribute__
?LINT:set d_attribut
?LINT:known __attribute__
: Look for GNU-cc style attribute checking
echo " "
echo "Checking whether your compiler can handle __attribute__ ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
void croak (char* pat,...) __attribute__((format(printf,1,2),noreturn));
EOCP
```

```
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $contains 'warning' attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't fully support __attribute__."
  val="$undef"
 else
  echo
 "Your C compiler supports __attribute__."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
set d_attribut
eval $setvar
$rm -f attrib*
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_attribut.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: make.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: make.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:09:40  ram
?RCS: patch61: created
?RCS:
?MAKE:make_set_make : Loc rm sed make
?MAKE: -pick add $@ %<
?S:make_set_make:
?S: Some versions of 'make' set the variable MAKE.  Others do not.
?S: This variable contains the string to be included in Makefile.SH
?S: so that MAKE is set if needed, and not if not needed.
?S: Possible values are:
?S:
?S: make_set_make='#'  #
 If your make program handles this for you,
?S:
```

```
?S: make_set_make="MAKE=$make" # if it doesn't.
?S:
?S: This uses a comment character so that we can distinguish a
?S: 'set' value (from a previous config.sh or Configure -D option)
?S: from an uncomputed value.
?S:.
?LINT: extern MAKE
?LINT: change MAKE
?X: This test is based on one from an autoconf-generated configure
?X: script. Autoconf stole a lot from Configure, but now it's our
?X: turn to do so... ;-) -- RAM, 21/02/97
: check whether make sets MAKE
echo " "
echo "Checking if your $make program sets \$(MAKE)..." >&4
case "$make_set_make" in
")
?X: Use sed so we don't have a line begining with @echo.  Metaconfig
?X: will think that's a command like @if or @end.
 $sed 's/^X //' > testmake.mak << 'EOF'
Xall:
X  @echo 'maketemp="$(MAKE)"'
EOF
?X: GNU make sometimes prints "make[1]: Entering...", which would confuse us
 case "`$make -f testmake.mak 2>/dev/null`" in
 *maketemp=*) make_set_make='#' ;;
 *) make_set_make="MAKE=$make" ;;
 esac
 $rm
 -f testmake.mak
 ;;
esac
case "$make_set_make" in
'#') echo "Yup, it does.";;
*) echo "Nope, it doesn't.";;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/make.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_shmdt.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_shmdt.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_shmdt: Inlibc
?MAKE: -pick add $@ %<
?S:d_shmdt:
?S: This variable conditionally defines the HAS_SHMDT symbol, which
?S: indicates to the C program that the shmdt() routine is available.
?S:.
?C:HAS_SHMDT:
?C: This symbol, if defined, indicates that the shmdt() routine is
?C: available to detach a shared memory segment from the process
 space.
?C:.
?H:#$d_shmdt HAS_SHMDT  /**/
?H:.
?LINT:set d_shmdt
: see if shmdt exists
set shmdt d_shmdt
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_shmdt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorscript.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorscript.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:d_vendorscript vendorscript vendorscriptexp installvendorscript: Getfile \
 vendorbin cat Setprefixvar Oldconfig Prefixit test vendorprefix
?MAKE: -pick add $@ %<
?Y:TOP
```

```
?S:vendorscript:
?S: This variable contains the eventual value of the VENDORSCRIPT symbol.
?S: It may have a ~ on the front.
?S: The standard distribution will put nothing in this
 directory.
?S: Vendors who distribute perl may wish to place additional
?S: executable scripts in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorscriptexp:
?S: This variable is the ~name expanded version of vendorscript, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorscript=''
?S:installvendorscript:
?S: This variable is really the same as vendorscriptexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?S:d_vendorscript:
?S: This variable conditionally defines PERL_VENDORSCRIPT.
?S:.
?C:PERL_VENDORSCRIPT:
?C: If defined, this symbol contains the name of a directory
?C: for holding vendor-supplied executable scripts.
?C: It may have a ~ on the front.
?C: The standard distribution will put nothing in this directory.
?C: Vendors who distribute perl may wish to place additional
?C: executable
 scripts in this directory with
?C:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?C: or equivalent.  See INSTALL for details.
?C:.
?C:PERL_VENDORSCRIPT_EXP:
?C: This symbol contains the ~name expanded version of VENDORSCRIPT, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#$d_vendorscript PERL_VENDORSCRIPT "$vendorscript"  /**/
?H:#$d_vendorscript PERL_VENDORSCRIPT_EXP "$vendorscriptexp"  /**/
?H:.
?LINT:change prefixvar
?LINT:set installvendorscript
: Set the vendorscript variables
case "$vendorprefix" in
'') d_vendorscript="$undef"
 vendorscript=''
 vendorscriptexp=''
```

```
 ;;
*) d_vendorscript="$define"
 : determine where vendor-supplied scripts go.
 case "$vendorscript" in
 ") dflt=$vendorprefix/script
  $test -d $dflt || dflt=$vendorbin ;;
 *)  dflt="$vendorscript" ;;
 esac
 $cat <<EOM

The installation process will create a directory for
vendor-supplied scripts.

EOM
 fn=d~+
 rp='Pathname for the vendor-supplied scripts directory?'
 . ./getfile
 vendorscript="$ans"
 vendorscriptexp="$ansexp"
 ;;
esac
prefixvar=vendorscript
.
 ./installprefix
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/vendorscript.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getsent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_getsent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getsent: Inlibc
?MAKE: -pick add $@ %<
?S:d_getsent:
?S: This variable conditionally defines HAS_GETSERVENT if getservent() is
```

```
?S: available to look up network services in some data base or another.
?S:.
?C:HAS_GETSERVENT:
?C: This symbol, if defined, indicates that the getservent() routine is
?C: available to look up network services in some
 data base or another.
?C:.
?H:#$d_getsent HAS_GETSERVENT  /**/
?H:.
?LINT:set d_getsent
: see if getservent exists
set getservent d_getsent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_getsent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethbynm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_gethbynm.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_gethbyname: Inlibc
?MAKE: -pick add $@ %<
?S:d_gethbyname (d_gethbynm d_gethhstby):
?S: This variable conditionally defines the HAS_GETHOSTBYNAME symbol, which
?S: indicates to the C program that the gethostbyname() routine is available
?S: to look up host names in some data base or other.
?S:.
?C:HAS_GETHOSTBYNAME (GETHOSTBYNAME):
?C: This
 symbol, if defined, indicates that the gethostbyname() routine is
?C: available to look up host names in some data base or other.
?C:.
?H:#$d_gethbyname HAS_GETHOSTBYNAME  /**/
?H:.
?LINT:set d_gethbyname
```

```
: see if gethostbyname exists
set gethostbyname d_gethbyname
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_gethbynm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_remquo: Inlibc
?MAKE: -pick add $@ %<
?S:d_remquo:
?S: This variable conditionally defines the HAS_REMQUO symbol, which
?S: indicates to the C program that the remquo() routine is available.
?S:.
?C:HAS_REMQUO:
?C: This symbol, if defined, indicates that the remquo routine is
?C: available to return the remainder and part of quotient.
?C:.
?H:#$d_remquo HAS_REMQUO  /**/
?H:.
?LINT:set d_remquo
: see if remquo exists
set remquo d_remquo
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_remquo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_inttypes: Inhdr cat rm_try Setvar Compile
?MAKE: -pick add $@ %<
?S:i_inttypes:
?S: This variable conditionally defines the I_INTTYPES symbol,
```

```
?S: and indicates whether a C program should include <inttypes.h>.
?S:.
?C:I_INTTYPES:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <inttypes.h>.
?C:.
?H:#$i_inttypes   I_INTTYPES                /**/
?H:.
?LINT:set i_inttypes
: see if inttypes.h is available
: we want a real compile instead of Inhdr because some systems
: have an inttypes.h
 which includes non-existent headers
echo " "
$cat >try.c <<EOCP
#include <inttypes.h>
int main() {
 static int32_t foo32 = 0x12345678;
}
EOCP
set try
if eval $compile; then
 echo "<inttypes.h> found." >&4
 val="$define"
else
 echo "<inttypes.h> NOT found." >&4
 val="$undef"
fi
$rm_try
set i_inttypes
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_inttypes.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sunscanf.U,v $
```

```
?RCS: Revision 3.0  1993/08/18  12:09:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:sunscanf: cat rm Myread +cc +ccflags test Setvar
?MAKE: -pick add $@ %<
?S:sunscanf:
?S: This variable is set if this system runs with the Sun version
?S: of scanf.
?S:.
?C:SUNSCANF:
?C: This variable is set if this system runs with the Sun version
?C: of scanf.
?C:.
?H:#$sunscanf  SUNSCANF  /**/
?H:.
?LINT:set sunscanf
: check to see what kinda scanf your using.
echo " "
echo "Checking
 to see what flavor of scanf you have..." >&4
$cat >scanf.c <<'EOCP'
int main()
{
 float value;

 sscanf("4.5","%g",&value);
 printf("%d\n", value == 4.5);
}
EOCP
if $cc $ccflags -o scanf scanf.c >/dev/null 2>&1 ; then
 if $test `scanf` = 0; then
  echo "Hmm.. seems your not running the USG flavor.."
  val="$undef"
 else
  echo "Uh... your running the USG flavor of scanf."
  val="$define"
 fi
else
 echo "(I can't seem to compile the test program... Guessing)"
 val="$undef"
fi
set sunscanf
eval $setvar
$rm -f scanf*
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/sunscanf.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Myinit.U,v 3.0 1993/08/18 12:05:07 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: Myinit.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: If you want to initialize any default values, copy this unit to your
?X: personal U directory and add the assignments to the end.  This file
?X: is included after variables are initialized but before any old
?X: config.sh file is read in and before any Configure switch processing.
?X:
?MAKE:Myinit
 libswanted: Init
?MAKE: -pick add $@ %<
?S:libswanted:
?S: This variable holds a list of all the libraries we want to
?S: search.  The order is chosen to pick up the c library
?S: ahead of ucb or bsd libraries for SVR4.
?S:.
?LINT:extern usevfork glibpth
?LINT:change usevfork glibpth
: List of libraries we want.
?X: Put crypt here, even though I should really fix d_crypt.U to look
?X: for it correctly, including possible shared library versions.
: If anyone needs extra -lxxx, put those in a hint file.
libswanted="cl pthread socket bind inet nsl ndbm gdbm dbm db malloc dl ld"
libswanted="$libswanted sun m crypt sec util c cposix posix ucb bsd BSD"
: We probably want to search /usr/shlib before most other libraries.
: This is only used by the lib/ExtUtils/MakeMaker.pm routine extliblist.
glibpth=`echo " $glibpth " | sed -e 's! /usr/shlib ! !'`
glibpth="/usr/shlib $glibpth"
: Do not use vfork unless overridden by a hint file.
usevfork=false
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/modified/Myinit.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setpgrp.U,v 3.0.1.3 1997/02/28 15:44:16 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_setpgrp.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:44:16  ram
?RCS: patch61: obsoleted USE_BSDGRP in favor of USE_BSD_SETPGRP
?RCS: patch61: another unit now also defines a USE_BSD_GETPGRP
?RCS: patch61: fallback for test program failure improved
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  13:59:30  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:15:37  ram
?RCS: patch36: added
 'ldflags' to the test compile line (ADO)
?RCS: patch36: call ./usg explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setpgrp d_bsdsetpgrp: cat rm_try +cc +libs +ccflags \
 +ldflags Inlibc Guess Setvar i_unistd i_stdlib run
?MAKE: -pick add $@ %<
?S:d_setpgrp:
?S: This variable conditionally defines HAS_SETPGRP if setpgrp() is
?S: available to set the current process group.
?S:.
?S:d_bsdsetpgrp (d_bsdpgrp):
?S: This variable conditionally defines USE_BSD_SETPGRP if
?S: setpgrp needs two arguments whereas USG one needs none.
?S: See also d_setpgid for a POSIX interface.
?S:.
?C:HAS_SETPGRP (SETPGRP):
?C: This symbol, if defined, indicates that the setpgrp routine is
?C: available to set the current process group.
?C:.
?C:USE_BSD_SETPGRP (USE_BSDPGRP BSDPGRP):
?C: This symbol, if defined, indicates that setpgrp needs two
```

```
?C: arguments whereas USG one needs none.  See also HAS_SETPGID
?C: for
 a POSIX interface.
?C:.
?H:#$d_setpgrp HAS_SETPGRP  /**/
?H:#$d_bsdsetpgrp USE_BSD_SETPGRP /**/
?H:.
?T:xxx
?F:!try
?LINT:set d_setpgrp d_bsdsetpgrp
: see if setpgrp exists
set setpgrp d_setpgrp
eval $inlibc

@if USE_BSD_SETPGRP || d_bsdsetpgrp
case "$d_setpgrp" in
"$define")
 echo " "
 echo "Checking to see which flavor of setpgrp is in use..."
 $cat >try.c <<EOP
#include <stdio.h>
#$i_unistd I_UNISTD
#include <sys/types.h>
#ifdef I_UNISTD
#  include <unistd.h>
#endif
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
{
 if (getuid() == 0) {
  printf("(I see you are running Configure as super-user...)\n");
  setuid(1);
 }
#ifdef TRY_BSD_PGRP
 if (-1 == setpgrp(1, 1))
  exit(0);
#else
 if (setpgrp() != -1)
  exit(0);
#endif
 exit(1);
}
EOP
 if $cc -o try -DTRY_BSD_PGRP $ccflags $ldflags try.c $libs >/dev/null 2>&1 && $run ./try; then
  echo 'You have to use setpgrp(pid,pgrp) instead of setpgrp().' >&4
```

```
 val="$define"
elif $cc -o try $ccflags $ldflags try.c $libs
>/dev/null 2>&1 && $run ./try; then
 echo 'You have to use setpgrp() instead of setpgrp(pid,pgrp).' >&4
 val="$undef"
else
 echo "(I can't seem to compile and run the test program.)"
 if ./usg; then
  xxx="a USG one, i.e. you use setpgrp()."
 else
  # SVR4 systems can appear rather BSD-ish.
  case "$i_unistd" in
  $undef)
   xxx="a BSD one, i.e. you use setpgrp(pid,pgrp)."
   val="$define"
   ;;
  $define)
   xxx="probably a USG one, i.e. you use setpgrp()."
   val="$undef"
   ;;
  esac
 fi
 echo "Assuming your setpgrp is $xxx" >&4
fi
;;
*) val="$undef";;
esac
set d_bsdsetpgrp
eval $setvar
$rm_try
@end
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_setpgrp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: socksizetype.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:socksizetype: \
 Protochk Oldconfig Myread cat d_socket d_socklen_t sizetype \
 usesocks i_socks i_systypes extern_C
?MAKE: -pick add $@ %<
```

```
?S:socksizetype:
?S: This variable holds the type used for the size argument
?S: for various socket calls like accept.  Usual values include
?S: socklen_t, size_t, and int.
?S:.
?C:Sock_size_t:
?C: This symbol holds the type used for the size argument of
?C: various socket calls (just the base type, not the pointer-to).
?C:.
?H:#define Sock_size_t  $socksizetype /**/
?H:.
?T:xxx yyy try
@if Sock_size_t
: check for type of the size argument to socket calls
case "$d_socket" in
"$define")
 $cat <<EOM

Checking to see what type is the last argument
 of accept().
EOM
 yyy=''
 case "$d_socklen_t" in
 "$define") yyy="$yyy socklen_t"
 esac
 yyy="$yyy $sizetype int long unsigned"
 for xxx in $yyy; do
  case "$socksizetype" in
  ") try="$extern_C int accept(int, struct sockaddr *, $xxx *);"
   case "$usesocks" in
   "$define")
    if ./protochk "$try" $i_systypes sys/types.h $d_socket sys/socket.h literal '#define INCLUDE_PROTOTYPES'
$i_socks socks.h.; then
     echo "Your system accepts '$xxx *' for the last argument of accept()."
     socksizetype="$xxx"
    fi
    ;;
   *) if ./protochk "$try"  $i_systypes sys/types.h $d_socket sys/socket.h; then
     echo "Your system accepts '$xxx *' for the last argument of accept()."
     socksizetype="$xxx"
    fi
    ;;
   esac
   ;;
  esac
 done
: In case none of those worked, prompt the user.
 case "$socksizetype" in
```

```
 ") rp='What is the type for socket address structure sizes?'
  dflt='int'
  . ./myread
  socksizetype=$ans
  ;;
 esac
 ;;
*) : no sockets, so pick relatively harmless default
 socksizetype='int'
 ;;
esac
@end
```

Found
 in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/socksizetype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Extract.U,v 3.0.1.2 1997/02/28 14:58:52 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Extract.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  14:58:52  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:51:46  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which can be doted in order to extract
?X: .SH files with variable substitutions.
?X:
?X: When running
 Configure from a remote directory ($src is not '.'),
?X: then the files will be created in that directory, so beware!
?X:
?MAKE:Extract: src
```

```
?MAKE: -pick add $@ %<
?F:./extract
?T:PERL_CONFIG_SH dir file name create mkdir_p
: script used to extract .SH files with variable substitutions
cat >extract <<'EOS'
PERL_CONFIG_SH=true
echo "Doing variable substitutions on .SH files..."
if test -f MANIFEST; then
 set x `awk '{print $1}' < MANIFEST | grep '\.SH$'`
else
 echo "(Looking for .SH files under the source directory.)"
 set x `(cd "$src"; find . -name "*.SH" -print)`
fi
shift
case $# in
0) set x `(cd "$src"; echo *.SH)`; shift;;
esac
if test ! -f "$src/$1"; then
 shift
fi
?X: script to emulate mkdir -p
mkdir_p='
name=$1;
create="";
while test $name; do
 if test ! -d "$name"; then
  create="$name $create";
  name=`echo $name | sed -e "s|^[^/]*$||"`;
  name=`echo $name | sed -e "s|\(.*\)/.*|\1|"`;
 else
  name="";
 fi;
done;
for file in $create; do
 mkdir $file;
done
'
for file in $*;
 do
 case "$src" in
 ".")
  case "$file" in
  */*)
   dir=`expr X$file : 'X\(.*\)/'`
   file=`expr X$file : 'X.*/\(.*\)'`
   (cd "$dir" && . ./$file)
   ;;
  *)
```

```
   . ./$file
   ;;
  esac
  ;;
 *)
?X:
?X: When running Configure remotely ($src is not '.'), we cannot source
?X: the files directly, since that would wrongly cause the extraction
?X: where the source lie instead of withing the current directory. Therefore,
?X: we need to 'sh <file' then, which is okay since they will source the
?X: existing config.sh file. It's not possible to use:
?X:  ../src/Configure -S -O -Dsomething
?X: unfortunately since no new config.sh with the -Dsomething override
?X: will be created before running the .SH files. A minor buglet.
?X:
?X: Note that we must create the directory hierarchy ourselves if it does
?X: not exist already, and that is done through a shell emulation of the
?X: 'mkdir -p' command. We don't want to use the $installdir metaconfig
?X: symbol here since that would require too much to
 be configured for
?X: this simple extraction task that may happen quickly with 'Configure -S'.
?X:  -- RAM, 18/03/96
?X:
  case "$file" in
  */*)
   dir=`expr X$file : 'X\(.*\)/'`
   file=`expr X$file : 'X.*/\(.*\)'`
   (set x $dir; shift; eval $mkdir_p)
   sh <"$src/$dir/$file"
   ;;
  *)
   sh <"$src/$file"
   ;;
  esac
  ;;
 esac
done
if test -f "$src/config_h.SH"; then
 if test ! -f config.h; then
 : oops, they left it out of MANIFEST, probably, so do it anyway.
 . "$src/config_h.SH"
 fi
fi
EOS
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Extract.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_mntent.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_mntent: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_mntent:
?S: This variable conditionally defines the I_MNTENT symbol, and indicates
?S: whether a C program should include <mntent.h>.
?S:.
?C:I_MNTENT:
?C: This symbol, if defined, indicates that <mntent.h> exists and
?C: should be included.
?C:.
?H:#$i_mntent I_MNTENT  /**/
?H:.
?LINT:set i_mntent
: see if this is a mntent.h system
set mntent.h i_mntent
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_mntent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:usedefaultstrict: Setvar Myread
?MAKE: -pick add $@ %<
?LINT:set usedefaultstrict
?S:usedefaultstrict:
?S: This setting provides a mechanism for perl developers to enable
?S: strict by default. These defaults do not apply when perl is run
?S: via -e or -E.
?S:.
?C:USE_STRICT_BY_DEFAULT:
?C: This symbol, if defined, enables additional defaults.
?C: At this time it only enables implicit strict by default.
?C:.
?H:#$usedefaultstrict USE_STRICT_BY_DEFAULT /* use strict by default */
?H:.
```

```
: Ask about strict by default.
case "$usedefaultstrict" in
  $define|true|[Yy]*)
    dflt="y"
    ;;
  *)
    dflt="n"
    ;;
  esac

cat <<EOM

EXPERIMENTAL: Perl can now be built with strict on by default when not
invoked with -e or -E. This is a diagnostic tool
 for development.

Unless you are familiar with this feature, you should probably answer 'no'.

EOM

rp='Would you like to build perl with strict enabled by default?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*)   val="$undef"  ;;
esac
set usedefaultstrict
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/usedefaultstrict.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: packadmin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:packadmin: cf_email Oldconfig Myread cat spackage package
?MAKE: -pick add $@ %<
?Y:TOP
```

```
?S:packadmin:
?S: Electronic mail address of the package administrator.
?S:.
: check wehther they will act as local admin for the package
$cat <<EOM

If you or somebody else will be maintaining $package at your site, please
fill in the correct e-mail address here so that they may be contacted
if necessary.  You may enter "none"
 for no administrator.

EOM
case "$packadmin" in
") dflt="$cf_email";;
*) dflt="$packadmin";;
esac
rp="$spackage administrator e-mail address"
. ./myread
packadmin="$ans"
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/packadmin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_NeWS.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_NeWS.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_news d_news0 d_newshome d_textcan: test rm Myread Getfile
?MAKE: -pick add $@ %<
?S:d_news:
?S: Set if running NeWS 1.1
?S:.
?S:d_news0:
?S: Set if running NeWS 1.0
?S:.
?S:d_newshome:
```

```
?S: Path to the top directory of the NeWS structure.
?S:.
?S:d_textcan:
?S: Path to where the textcan.ps stuff is...
?S:.
?C:HAS_NEWS1_1 (NEWS1_1):
?C: This
 symbol defined if running NeWS 1.1.
?C:.
?C:HAS_NEWS1_0 (NEWS1_0):
?C: This symbol defined if running NeWS 1.0.
?C:.
?C:TEXTCAN:
?C: Tells path to where the textcan.ps stuff is...
?C:.
?H:#$d_news HAS_NEWS1_1     /**/
?H:#$d_news0 HAS_NEWS1_0     /**/
?H:#define TEXTCAN $d_textcan /**/
?H:.
?INIT:: default path for NeWS
?INIT:d_newshome="/usr/NeWS"
?INIT:
: Check to see what version of NeWS is being run?
cd ..
echo " "
echo "Now for the interesting stuff... Lets see what kind of NeWS"
echo "they grow round here...."
echo " "
dflt='y'
if $test -d $d_newshome; then
 d_newshome=`(cd $d_newshome ; /bin/pwd)`
 echo "Ah...found myself a NeWS in $d_newshome..."
 dflt='y'
 rp="Is this the NeWS you want your children to grow up with?"
 . UU/myread
fi
while $test $ans = "n"; do
dflt=$d_newshome
fn=d
rp="Path to NeWS you want:"
. UU/getfile
d_newshome=$ans

echo " "
if $test ! -d $d_newshome/lib; then
 echo "ARG!  No lib directory in $d_newshome!!!"
 : heavy medicine.  I wonder what the disease
```

```
 is...
 $rm -f kit*isdone
 $rm -rf UU
 : bye bye
 set -t; echo "Sorry... no NeWS is bad news..."
fi

if $test -r $d_newshome/lib/NeWS/colors.ps ; then
 echo 'Ahh... your running NeWS 1.1!  Boy... that makes stuff easy....'
 echo " "
 d_news="$define"
 d_news0="$undef"
 if $test -r $d_newshome/lib/NeWS/textcan.ps; then
  d_textcan=$d_newshome/lib/NeWS
  echo "The textcan.ps stuff seems to be in : $d_textcan"
 else
  d_textcan=$d_newshome/clientsrc/client/nterm
  if $test ! -r $d_textcan/textcan.ps; then
   d_news="$undef"
   d_news0="$define"
   echo 'Hmm... must have been fooled... gotta be NeWS 1.1 beta!'
  else
   echo "The textcan.ps stuff seems to be in : $d_textcan"
  fi
 fi
else
 echo 'snif... snif... I smell the dilapidated smell of NeWS 1.0..'
 echo 'Some things will not work under NeWS 1.0...'
 d_news="$undef"
 d_news0="$define"
fi
cd UU
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_NeWS.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_preadv.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: d_preadv.U,v $
?RCS:
?MAKE:d_preadv: Inlibc
?MAKE: -pick add $@ %<
?S:d_preadv:
?S: This variable conditionally defines the HAS_PREADV symbol, which
?S: indicates to the C program that the preadv() routine is available.
?S:.
?C:HAS_PREADV :
?C: This symbol, if defined, indicates that the preadv routine is
?C: available to perform vectored reads on a file descriptor at a
?C: given offset.
?C:.
?H:#$d_preadv HAS_PREADV  /**/
?H:.
?LINT:set d_preadv
:
 see if preadv exists
set preadv d_preadv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_preadv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isless: cat Compile rm_try Setvar
?MAKE: -pick add $@ %<
?S:d_isless:
?S: This variable conditionally defines the HAS_ISLESS symbol, which
?S: indicates to the C program that the isless() routine is available.
?S:.
?C:HAS_ISLESS:
?C: This symbol, if defined, indicates that the isless routine is
?C: available to do the isless function.
?C:.
?H:#$d_isless HAS_ISLESS  /**/
?H:.
?LINT:set d_isless
: check for isless
echo "Checking to see if you have isless..." >&4
$cat >try.c <<EOCP
#include <math.h>
int main() { return isless(2.0, 1.0); }
EOCP
```

```
set try
if eval $compile; then
 val="$define"
 echo "You have isless."
else
 val="$undef"
 echo "You do not have isless."
fi
$rm_try
set d_isless
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_isless.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_waitpid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_waitpid.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_waitpid: Inlibc
?MAKE: -pick add $@ %<
?S:d_waitpid:
?S: This variable conditionally defines HAS_WAITPID if waitpid() is
?S: available to wait for child process.
?S:.
?C:HAS_WAITPID (WAITPID):
?C: This symbol, if defined, indicates that the waitpid routine is
?C: available to wait for child process.
?C:.
?H:#$d_waitpid HAS_WAITPID /**/
?H:.
?LINT:set
 d_waitpid
: see if waitpid exists
set waitpid d_waitpid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_waitpid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_expm1: Inlibc
?MAKE: -pick add $@ %<
?S:d_expm1:
?S: This variable conditionally defines the HAS_EXPM1 symbol, which
?S: indicates to the C program that the expm1() routine is available.
?S:.
?C:HAS_EXPM1:
?C: This symbol, if defined, indicates that the expm1 routine is
?C: available to do the exp(x) - 1 when x is near 1 function.
?C:.
?H:#$d_expm1 HAS_EXPM1  /**/
?H:.
?LINT:set d_expm1
: see if expm1 exists
set expm1 d_expm1
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_expm1.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_msem_lck.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msem_lck.U,v $
?MAKE:d_msem_lck: Inlibc
?MAKE: -pick add $@ %<
?S:d_msem_lck:
?S: This variable conditionally defines HAS_MSEM_LOCK if msem_lock() is
?S: available, thereby indicating kernel support for memory semaphores.
?S:.
```

```
?C:HAS_MSEM_LOCK:
?C: This symbol, if defined, indicates that memory semaphores are
?C: available to protect mmap()'ed regions.
?C:.
?H:#$d_msem_lck HAS_MSEM_LOCK  /**/
?H:.
?LINT:set d_msem_lck
: see if msem_lock exists
set
 msem_lock d_msem_lck
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_msem_lck.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getgrgid_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getgrgid_r getgrgid_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_grp extern_C
?MAKE: -pick add $@ %<
?S:d_getgrgid_r:
?S: This variable conditionally defines the HAS_GETGRGID_R symbol,
?S: which indicates to the C program that the getgrgid_r()
?S: routine is available.
?S:.
?S:getgrgid_r_proto:
?S: This variable encodes the prototype of getgrgid_r.
?S: It is zero if d_getgrgid_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getgrgid_r
?S: is defined.
?S:.
?C:HAS_GETGRGID_R:
?C: This symbol, if defined, indicates that the getgrgid_r routine
?C: is available to
 getgrgid re-entrantly.
?C:.
?C:GETGRGID_R_PROTO:
?C: This symbol encodes the prototype of getgrgid_r.
?C: It is zero if d_getgrgid_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getgrgid_r
```

```
?C: is defined.
?C:.
?H:#$d_getgrgid_r HAS_GETGRGID_R /**/
?H:#define GETGRGID_R_PROTO $getgrgid_r_proto /**/
?H:.
?T:try hdrs d_getgrgid_r_proto
: see if getgrgid_r exists
set getgrgid_r d_getgrgid_r
eval $inlibc
case "$d_getgrgid_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_grp grp.h"
 case "$d_getgrgid_r_proto:$usethreads" in
 ":define") d_getgrgid_r_proto=define
  set d_getgrgid_r_proto getgrgid_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getgrgid_r_proto" in
 define)
 case "$getgrgid_r_proto" in
 "|0) try='int getgrgid_r(gid_t, struct group*, char*, size_t, struct group**);'
 ./protochk "$extern_C $try" $hdrs && getgrgid_r_proto=I_TSBWR ;;
 esac
 case "$getgrgid_r_proto" in
 "|0) try='int getgrgid_r(gid_t, struct group*, char*, int, struct
 group**);'
 ./protochk "$extern_C $try" $hdrs && getgrgid_r_proto=I_TSBIR ;;
 esac
 case "$getgrgid_r_proto" in
 "|0) try='int getgrgid_r(gid_t, struct group*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getgrgid_r_proto=I_TSBI ;;
 esac
 case "$getgrgid_r_proto" in
 "|0) try='struct group* getgrgid_r(gid_t, struct group*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getgrgid_r_proto=S_TSBI ;;
 esac
 case "$getgrgid_r_proto" in
 "|0) d_getgrgid_r=undef
  getgrgid_r_proto=0
  echo "Disabling getgrgid_r, cannot determine prototype." >&4 ;;
 * ) case "$getgrgid_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getgrgid_r_proto="REENTRANT_PROTO_$getgrgid_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
```

```
 *) case "$usethreads" in
  define) echo "getgrgid_r has no prototype, not using it." >&4 ;;
  esac
  d_getgrgid_r=undef
  getgrgid_r_proto=0
  ;;
 esac
 ;;
*) getgrgid_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getgrgid_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strtoul.U,v 3.0.1.1 1997/02/28 15:46:43 ram Exp $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_strtoul.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:46:43  ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_strtoul: Inlibc cat longsize Compile run
?MAKE: -pick add $@ %<
?S:d_strtoul:
?S: This variable conditionally defines the HAS_STRTOUL symbol, which
?S: indicates to the C program that the strtoul() routine is available
?S: to provide conversion of strings to unsigned long.
?S:.
?C:HAS_STRTOUL (STRTOUL):
?C: This
 symbol, if defined, indicates that the strtoul routine is
?C: available to provide conversion of strings to unsigned long.
?C:.
?H:#$d_strtoul HAS_STRTOUL /**/
?H:.
?F:!try
```

```
: see if strtoul exists
set strtoul d_strtoul
eval $inlibc

case "$d_strtoul" in
"$define")
 $cat <<EOM
Checking whether your strtoul() works okay...
EOM
 $cat >try.c <<'EOCP'
#include <stdlib.h>
#include <errno.h>
#include <stdio.h>
static int bad = 0;
void check(const char *s, unsigned long eul, int een) {
 unsigned long gul;
 errno = 0;
 gul = strtoul(s, 0, 10);
 if (!((gul == eul) && (errno == een)))
  bad++;
}
int main() {
 check(" 1", 1L, 0);
 check(" 0", 0L, 0);
EOCP
 case "$longsize" in
 8)
    $cat >>try.c <<'EOCP'
 check("18446744073709551615", 18446744073709551615UL, 0);
 check("18446744073709551616", 18446744073709551615UL, ERANGE);
#if 0 /* strtoul() for /^-/ strings is undefined. */
 check("-1", 18446744073709551615UL, 0);
 check("-18446744073709551614", 2, 0);
 check("-18446744073709551615", 1,
 0);
 check("-18446744073709551616", 18446744073709551615UL, ERANGE);
 check("-18446744073709551617", 18446744073709551615UL, ERANGE);
#endif
EOCP
  ;;
 4)
     $cat >>try.c <<'EOCP'
 check("4294967295", 4294967295UL, 0);
 check("4294967296", 4294967295UL, ERANGE);
#if 0 /* strtoul() for /^-/ strings is undefined. */
 check("-1", 4294967295UL, 0);
 check("-4294967294", 2, 0);
 check("-4294967295", 1, 0);
```

```
 check("-4294967296", 4294967295UL, ERANGE);
 check("-4294967297", 4294967295UL, ERANGE);
#endif
EOCP
  ;;
 *)
: Should we write these tests to be more portable by sprintf-ing
: ~0 and then manipulating that char string as input for strtol?
  ;;
 esac
 $cat >>try.c <<'EOCP'
 if (!bad)
  printf("ok\n");
 return 0;
}
EOCP
 set try
 if eval $compile; then
  case "`$run ./try`" in
  ok) echo "Your strtoul() seems to be working okay." ;;
  *) cat <<EOM >&4
Your strtoul() doesn't seem to be working okay.
EOM
     d_strtoul="$undef"
     ;;
  esac
 else
  echo "(I can't seem to compile the test
 program--assuming it doesn't)"
  d_strtoul="$undef"
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_strtoul.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: install.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: install.U,v $
?RCS: Revision 3.0.1.2  1995/09/25  09:16:37  ram
?RCS: patch59: all possible install programs are now looked for
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:30:41  ram
?RCS: patch45: created
?RCS:
?MAKE:install installdir: Loc Oldconfig Getfile cat test startsh rm +cc \
 eunicefix package contains mkdir echo n c
?MAKE: -pick add $@ %<
?S:install:
?S: This variable contains the name of an install program that can accept
?S: BSD-style arguments.
 It must correctly support -c, -s, and -m at least.
?S: It is a fully qualified pathname when found. If you have a local
?S: install.SH file at the root directory of your package, it is assumed to
?S: be the default script emulating a BSD install and the variable will be
?S: set to ./install. Otherwise, it is set to plain 'install', relying on
?S: the user's PATH to perform miracles.
?S:.
?S:installdir:
?S: This variable contains the name of a program that can install nested
?S: directories. Often set to 'mkdir -p', it can also be 'install -d' if
?S: you have such a beast and lack the former. If you have an install.SH
?S: file at the root directory of your package, it will be used in last
?S: resort, setting the variable to './install -d'. Otherwise, it is set to
?S: plain 'mkdir', and cross your fingers!
?S:.
?T:dir file tryit prog creatdir either
?F:!tryinst
: locate a BSD compatible install program
echo " "
echo "Looking for a BSD-compatible install program..." >&4
@if installdir
creatdir=''
@end
case
 "$install" in
'')
 tryit=''
 for dir in $pth; do
  for file in ginstall installbsd scoinst install; do
   if $test -f $dir/$file; then
    tryit="$tryit $dir/$file"
   fi
  done
 done
```

```
 $cat >try.c <<EOC
int main()
{
 printf("OK\n");
 exit(0);
}
EOC
 if $cc -o try try.c >/dev/null 2>&1; then
  cp try try.ns
  strip try >/dev/null 2>&1
 else
  echo "(I can't seem to compile a trivial C program -- bypassing.)"
  echo "try" >try
  cp try try.ns
 fi
 $cat >tryinst <<EOS
$startsh
$rm -rf foo d
@if installdir
\$1 -d foo/bar
@end
$mkdir d
\$1 -c -m 764 try.ns d
\$1 -c -s -m 642 try.ns d/try
EOS
 chmod +x tryinst
 $eunicefix tryinst
 dflt=''
 either=''
 for prog in $tryit; do
  $echo $n "Checking $prog... $c"
  ./tryinst $prog >/dev/null 2>&1
@if installdir
  if $test -d foo/bar; then
   creatdir="$prog -d"
  fi
@end
  (ls -l d/try >try.ls; ls -l d/try.ns >tryno.ls) 2>/dev/null
  if (cmp -s d/try try && cmp -s d/try.ns try.ns && \
   $contains 'rwxrw-r--' tryno.ls &&
 \
   $contains 'rw-r---w-' try.ls) >/dev/null 2>&1
  then
   dflt="$prog"
   echo "ok, that will do."
   break
  fi
  echo "not good$either."
```

```
  either=' either'
  $rm -f try*.ls
 done
 $rm -rf foo d tryinst try try*.ls try.*
 case "$dflt" in
 ")
@if {test -f ../install.SH}
  echo "Hopefully, $package comes with its own install script!"
  dflt='./install'
@else
  dflt='install'
@end
  ;;
 esac
 ;;
*) dflt="$install";;
esac
$cat <<EOM

I will be requiring a BSD-compatible install program (one that allows
options like -s to strip executables or -m to specify a file mode) to
install $package.

If the question below contains a fully qualified default path, then it
is probably ok. If it is an unqualified name such as 'install', then it
means I was unable to find out a good install program I could use. If
@if {test -f ../install.SH}
you know of one, please tell me about it. If the default is './install',
then I shall be using the install script supplied with $package.
@else
you know of one,
 please tell me about it.
@end

EOM
@if {test -f ../install.SH}
fn='/fe~(install,./install)'
@else
fn='/fe~(install)'
@end
rp='Which install program shall I use?'
. ./getfile
install="$ans"

@if installdir
: how can we create nested directories?
echo " "
echo "Ok, let's see how we can create nested directories..." >&4
```

```
case "$installdir" in
")
?X: First time, maybe we already found out a working one in $creatdir above...
?X: Prefer "mkdir -p" because of bugs in GNU install when not running as root
 $mkdir -p foo/bar >/dev/null 2>&1
 if $test -d foo/bar; then
  echo "Great, we can build them using 'mkdir -p'."
  creatdir='mkdir -p'
 else
  case "$creatdir" in
  ")
   if eval "$install -d foo/bar"; $test -d foo/bar; then
    creatdir="install -d"
    echo "It looks like '$creatdir' will do it for us."
   fi
   ;;
  *)
   eval "$creatdir foo/bar" >/dev/null 2>&1
   if $test -d foo/bar; then
    echo "Ah! We can use '$creatdir' to do just that."
   else
    creatdir="
   fi
   ;;
  esac
 fi
 $rm
 -rf foo
 case "$creatdir" in
 ")
  echo "Heck! Another ancient system lacking the comfort of modern ones!"
@if {test -f ../install.SH}
  echo "You can thank $package for bringing you its own install script!"
  installdir='./install -d'
@else
  echo "We have no choice but to use plain old 'mkdir' -- wish me luck!"
  installdir=mkdir
@end
  ;;
 *) installdir="$creatdir";;
 esac
 ;;
*) echo "As you already told me, '$installdir' should work.";;
esac

@end
```

Found in path(s):

* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/install.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_socklen_t: Inhdr cat rm_try Setvar Compile d_socket sizetype
?MAKE: -pick add $@ %<
?S:d_socklen_t:
?S: This symbol will be defined if the C compiler supports socklen_t.
?S:.
?C:HAS_SOCKLEN_T:
?C: This symbol will defined if the C compiler supports socklen_t.
?C: Usually the <sys/socket.h> needs to be included.
?C:.
?H:#$d_socklen_t	HAS_SOCKLEN_T		/**/
?H:.
?LINT:set d_socklen_t
: check for socklen_t
echo " "
echo "Checking to see if you have socklen_t..." >&4
$cat >try.c <<EOCP
#include <sys/types.h>
#$d_socket
 HAS_SOCKET
#ifdef HAS_SOCKET
#include <sys/socket.h>
#endif
int main() { socklen_t x = 16; }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have socklen_t."
else
 val="$undef"
 echo "You do not have socklen_t."
 case "$sizetype" in
 size_t) echo "(You do have size_t, that might work. Some people are happy with just an int.)" ;;
 esac
```

```
fi
$rm_try
set d_socklen_t
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_socklen_t.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_fp_class.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_fp_class: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_fp_class:
?S: This variable conditionally defines the I_FP_CLASS symbol, and indicates
?S: whether a C program should include <fp_class.h>.
?S:.
?C:I_FP_CLASS:
?C: This symbol, if defined, indicates that <fp_class.h> exists and
?C: should be included.
?C:.
?H:#$i_fp_class I_FP_CLASS  /**/
?H:.
?LINT:set i_fp_class
: see if this is a fp_class.h system
set fp_class.h i_fp_class
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_fp_class.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ckeypad.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: d_ckeypad.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_ckeypad: cat cc termlib Setvar
?MAKE: -pick add $@ %<
?S:d_ckeypad:
?S: This variable controls the definition of HAS_CURSES_KEYPAD,
?S: which tells the application that the keypad() curses function
?S: is available.
?S:.
?C:HAS_CURSES_KEYPAD:
?C: This symbol indicates the availability of the keypad() function
?C: of the curses library.
?C:.
?H:#$d_ckeypad
 HAS_CURSES_KEYPAD /**/
?H:.
?LINT:set d_ckeypad
: check for the "keypad()" function in the curses library
echo " "
case "$termlib" in
")
 echo "You don't have a curses library, so I won't waste time looking" >&4
 echo "to see if has the keypad() function." >&4
*)
echo "Checking the curses library ($termlib) for the keypad() function..." >&4
 $cat >c_keypad.c <<'EOCP'
#include <curses.h>
int main() {
 keypad(stdscr, TRUE);
 exit(0);
}
EOCP
 if $cc c_keypad.c >c_keypad.out 2>&1 ; then
  val=$define
  echo "It appears to have the keypad() function."
 else
  val=$undef
  echo "Your curses library doesn't appear to have the keypad() function."
 fi
esac
set d_ckeypad
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/dist/U/d_ckeypad.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setgrent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_setgrent_r setgrent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_grp extern_C
?MAKE: -pick add $@ %<
?S:d_setgrent_r:
?S: This variable conditionally defines the HAS_SETGRENT_R symbol,
?S: which indicates to the C program that the setgrent_r()
?S: routine is available.
?S:.
?S:setgrent_r_proto:
?S: This variable encodes the prototype of setgrent_r.
?S: It is zero if d_setgrent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setgrent_r
?S: is defined.
?S:.
?C:HAS_SETGRENT_R:
?C: This symbol, if defined, indicates that the setgrent_r routine
?C: is available to
 setgrent re-entrantly.
?C:.
?C:SETGRENT_R_PROTO:
?C: This symbol encodes the prototype of setgrent_r.
?C: It is zero if d_setgrent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setgrent_r
?C: is defined.
?C:.
?H:#$d_setgrent_r HAS_SETGRENT_R /**/
?H:#define SETGRENT_R_PROTO $setgrent_r_proto /**/
?H:.
?T:try hdrs d_setgrent_r_proto
: see if setgrent_r exists
set setgrent_r d_setgrent_r
eval $inlibc
case "$d_setgrent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_grp grp.h"
 case "$d_setgrent_r_proto:$usethreads" in
 ":define") d_setgrent_r_proto=define
```

```
 set d_setgrent_r_proto setgrent_r $hdrs
 eval $hasproto ;;
*) ;;
esac
case "$d_setgrent_r_proto" in
define)
case "$setgrent_r_proto" in
"|0) try='int setgrent_r(FILE**);'
./protochk "$extern_C $try" $hdrs && setgrent_r_proto=I_H ;;
esac
case "$setgrent_r_proto" in
"|0) try='void setgrent_r(FILE**);'
./protochk "$extern_C $try" $hdrs && setgrent_r_proto=V_H ;;
esac
case "$setgrent_r_proto"
in
"|0) d_setgrent_r=undef
 setgrent_r_proto=0
 echo "Disabling setgrent_r, cannot determine prototype." >&4 ;;
* ) case "$setgrent_r_proto" in
 REENTRANT_PROTO*) ;;
 *) setgrent_r_proto="REENTRANT_PROTO_$setgrent_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "setgrent_r has no prototype, not using it." >&4 ;;
 esac
 d_setgrent_r=undef
 setgrent_r_proto=0
 ;;
esac
;;
*) setgrent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_setgrent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_system.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_system.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_system: Inlibc
?MAKE: -pick add $@ %<
?S:d_system:
?S: This variable conditionally defines HAS_SYSTEM if system() is
?S: available to issue a shell command.
?S:.
?C:HAS_SYSTEM (SYSTEM):
?C: This symbol, if defined, indicates that the system routine is
?C: available to issue a shell command.
?C:.
?H:#$d_system HAS_SYSTEM /**/
?H:.
?LINT:set
 d_system
: see if system exists
set system d_system
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_system.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: inc_version_list.U,v $
?RCS:
?RCS: Copyright (c) 2000 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: inc_version_list.U,v $
?RCS:
?MAKE:inc_version_list inc_version_list_init d_inc_version_list: cat sed \
 Getfile perl5 version api_versionstring rm Myread archname \
 prefix sitelib_stem exe_ext
?MAKE: -pick add $@ %<
```

```
?Y:TOP
?S:inc_version_list:
?S: This variable specifies the list of subdirectories in over
?S: which perl.c:incpush() and lib/lib.pm will automatically
?S: search when adding directories to @INC.  The elements in
?S: the list are separated by spaces.  This is only useful
?S: if
 you have a perl library directory tree structured like the
?S: default one.  See INSTALL for how this works.  The versioned
?S: site_perl directory was introduced in 5.005, so that is the
?S: lowest possible value.
?S:
?S: This list includes architecture-dependent directories back to
?S: version $api_versionstring (e.g. 5.5.640) and
?S: architecture-independent directories all the way back to
?S: 5.005.
?S:.
?S:inc_version_list_init:
?S: This variable holds the same list as inc_version_list, but
?S: each item is enclosed in double quotes and separated by commas,
?S: suitable for use in the PERL_INC_VERSION_LIST initialization.
?S:.
?S:d_inc_version_list:
?S: This variable conditionally defines PERL_INC_VERSION_LIST.
?S: It is set to undef when PERL_INC_VERSION_LIST is empty.
?S:.
?C:PERL_INC_VERSION_LIST:
?C: This variable specifies the list of subdirectories in over
?C: which perl.c:incpush() and lib/lib.pm will automatically
?C: search when adding directories to @INC, in a format suitable
?C: for
 a C initialization string.  See the inc_version_list entry
?C: in Porting/Glossary for more details.
?C:.
?H:#$d_inc_version_list PERL_INC_VERSION_LIST $inc_version_list_init  /**/
?H:.
?T:stem
: Determine list of previous versions to include in @INC
$cat > getverlist <<EOPL
#!$perl5
use strict;
use warnings;
use File::Basename;
my \$api_versionstring = "$api_versionstring";
my \$version = "$version";
my \$stem = "$sitelib_stem";
my \$archname = "$archname";
EOPL
```

```
 $cat >> getverlist <<'EOPL'
# The list found is stored twice for each entry: the original name, and
# the binary broken down version into pack "s>s>s>", so sorting is easy
# and unambiguous.  This will work for all versions that have a maximum
# of three digit per group separate by '.'s or '_'s. Names are extended
# with ".0.0" to ensure at least three elements for the pack.
#                                -- H.Merijn Brand (m)'06 23-10-2006

my @inc_version_list;
my @candidates;
# XXX Redo to do opendir/readdir?
if
 (-d $stem) {
   chdir($stem);
   ;@candidates = map {
 [ $_, pack "s>s>s>", split m/[._]/, "$_.0.0" ] } glob("5.*");
   ;@candidates = sort { $a->[1] cmp $b->[1]} @candidates;
}
else {
   ;@candidates = ();
}

my ($pversion, $aversion, $vsn5005) = map {
   pack "s>s>s>", split m/[._]/, "$_.0.0" } $version, $api_versionstring, "5.005";
foreach my $d (@candidates) {
   if ($d->[1] lt $pversion) {
 if ($d->[1] ge $aversion) {
     unshift(@inc_version_list, grep { -d } $d->[0]."/$archname", $d->[0]);
 }
 elsif ($d->[1] ge $vsn5005) {
     unshift(@inc_version_list, grep { -d } $d->[0]);
 }
   }
   else {
 # Skip newer version.  I.e. don't look in
 # 5.7.0 if we're installing 5.6.1.
   }
}

if (@inc_version_list) {
   print join(' ', @inc_version_list);
}
else {
   # Blank space to preserve value for next Configure run.
   print " ";
}
EOPL
chmod +x getverlist
```

```
case "$inc_version_list" in
") if test -x "$perl5$exe_ext"; then
  dflt=`$perl5 getverlist`
 else
  dflt='none'
 fi
 ;;
$undef)
 dflt='none' ;;
?X:     Configure -Dinc_version_list='5.6.0/$archname 5.6.0' ...
*)  eval dflt=\"$inc_version_list\" ;;
esac
case "$dflt" in
"|' ') dflt=none ;;
esac
case "$dflt" in
5.005) dflt=none ;;
esac
$cat <<EOM

In order to ease the process of upgrading, this version of perl
can be configured to use modules built and installed with earlier
versions of perl that were installed under $prefix.  Specify here
the list of earlier versions that this version of perl should check.
If Configure detected no earlier versions of perl installed under
$prefix, then the list will be empty.  Answer 'none' to tell perl
to not search earlier versions.

The default should almost always be sensible, so if you're not sure,
just accept the default.
EOM

rp='List of earlier versions to include in @INC?'
. ./myread
case "$ans" in
[Nn]one|"|' '|$undef) inc_version_list=' ' ;;
*) inc_version_list="$ans" ;;
esac
case "$inc_version_list" in
"|' ')
 inc_version_list_init='0'
 d_inc_version_list="$undef"
 ;;
*) inc_version_list_init=`echo
 $inc_version_list |
  $sed -e 's/^/"/' -e 's/ /","/g' -e 's/$/",0/'`
 d_inc_version_list="$define"
 ;;
```

```
esac
$rm -f getverlist
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/inc_version_list.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ttyname_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_ttyname_r ttyname_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_unistd extern_C
?MAKE: -pick add $@ %<
?S:d_ttyname_r:
?S: This variable conditionally defines the HAS_TTYNAME_R symbol,
?S: which indicates to the C program that the ttyname_r()
?S: routine is available.
?S:.
?S:ttyname_r_proto:
?S: This variable encodes the prototype of ttyname_r.
?S: It is zero if d_ttyname_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_ttyname_r
?S: is defined.
?S:.
?C:HAS_TTYNAME_R:
?C: This symbol, if defined, indicates that the ttyname_r routine
?C: is available to ttyname re-entrantly.
?C:.
?C:TTYNAME_R_PROTO:
?C: This
 symbol encodes the prototype of ttyname_r.
?C: It is zero if d_ttyname_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_ttyname_r
?C: is defined.
?C:.
?H:#$d_ttyname_r HAS_TTYNAME_R /**/
?H:#define TTYNAME_R_PROTO $ttyname_r_proto /**/
?H:.
?T:try hdrs d_ttyname_r_proto
: see if ttyname_r exists
set ttyname_r d_ttyname_r
eval $inlibc
```

```
case "$d_ttyname_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_unistd unistd.h"
 case "$d_ttyname_r_proto:$usethreads" in
 ":define") d_ttyname_r_proto=define
  set d_ttyname_r_proto ttyname_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_ttyname_r_proto" in
 define)
 case "$ttyname_r_proto" in
 "|0) try='int ttyname_r(int, char*, size_t);'
 ./protochk "$extern_C $try" $hdrs && ttyname_r_proto=I_IBW ;;
 esac
 case "$ttyname_r_proto" in
 "|0) try='int ttyname_r(int, char*, int);'
 ./protochk "$extern_C $try" $hdrs && ttyname_r_proto=I_IBI ;;
 esac
 case "$ttyname_r_proto"
 in
 "|0) try='char* ttyname_r(int, char*, int);'
 ./protochk "$extern_C $try" $hdrs && ttyname_r_proto=B_IBI ;;
 esac
 case "$ttyname_r_proto" in
 "|0) d_ttyname_r=undef
  ttyname_r_proto=0
  echo "Disabling ttyname_r, cannot determine prototype." >&4 ;;
 * ) case "$ttyname_r_proto" in
  REENTRANT_PROTO*) ;;
  *) ttyname_r_proto="REENTRANT_PROTO_$ttyname_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "ttyname_r has no prototype, not using it." >&4 ;;
  esac
  d_ttyname_r=undef
  ttyname_r_proto=0
  ;;
 esac
 ;;
*) ttyname_r_proto=0
 ;;
esac
```

Found in path(s):

* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_ttyname_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
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?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_sqrtl: Inlibc
?MAKE: -pick add $@ %<
?S:d_sqrtl:
?S: This variable conditionally defines the HAS_SQRTL symbol, which
?S: indicates to the C program that the sqrtl() routine is available.
?S:.
?C:HAS_SQRTL:
?C: This symbol, if defined, indicates that the sqrtl routine is
?C: available to do long double square roots.
?C:.
?H:#$d_sqrtl HAS_SQRTL  /**/
?H:.
?LINT:set d_sqrtl
: see if sqrtl exists
set sqrtl d_sqrtl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_sqrtl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getservbyport_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getservbyport_r getservbyport_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getservbyport_r:
?S: This variable conditionally defines the HAS_GETSERVBYPORT_R symbol,
?S: which indicates to the C program that the getservbyport_r()
?S: routine is available.
```

```
?S:.
?S:getservbyport_r_proto:
?S: This variable encodes the prototype of getservbyport_r.
?S: It is zero if d_getservbyport_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getservbyport_r
?S: is defined.
?S:.
?C:HAS_GETSERVBYPORT_R:
?C: This symbol, if defined, indicates
 that the getservbyport_r routine
?C: is available to getservbyport re-entrantly.
?C:.
?C:GETSERVBYPORT_R_PROTO:
?C: This symbol encodes the prototype of getservbyport_r.
?C: It is zero if d_getservbyport_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getservbyport_r
?C: is defined.
?C:.
?H:#$d_getservbyport_r HAS_GETSERVBYPORT_R /**/
?H:#define GETSERVBYPORT_R_PROTO $getservbyport_r_proto /**/
?H:.
?T:try hdrs d_getservbyport_r_proto
: see if getservbyport_r exists
set getservbyport_r d_getservbyport_r
eval $inlibc
case "$d_getservbyport_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getservbyport_r_proto:$usethreads" in
 ":define") d_getservbyport_r_proto=define
  set d_getservbyport_r_proto getservbyport_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getservbyport_r_proto" in
 define)
 case "$getservbyport_r_proto" in
 "|0) try='int getservbyport_r(int, const char*, struct servent*, char*, size_t,
 struct servent**);'
 ./protochk "$extern_C $try" $hdrs && getservbyport_r_proto=I_ICSBWR ;;
 esac
 case "$getservbyport_r_proto" in
 "|0) try='struct servent* getservbyport_r(int, const char*, struct servent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getservbyport_r_proto=S_ICSBI ;;
 esac
 case "$getservbyport_r_proto" in
 "|0) try='int getservbyport_r(int, const char*, struct servent*, struct servent_data*);'
 ./protochk "$extern_C $try" $hdrs && getservbyport_r_proto=I_ICSD ;;
```

```
 esac
 case "$getservbyport_r_proto" in
 "|0) d_getservbyport_r=undef
  getservbyport_r_proto=0
  echo "Disabling getservbyport_r, cannot determine prototype." >&4 ;;
 * ) case "$getservbyport_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getservbyport_r_proto="REENTRANT_PROTO_$getservbyport_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getservbyport_r has no prototype, not using it." >&4 ;;
  esac
  d_getservbyport_r=undef
  getservbyport_r_proto=0
  ;;
 esac
 ;;
*) getservbyport_r_proto=0
 ;;
esac
```

Found
 in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getservbyport_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_telldirproto: Hasproto i_systypes i_dirent
?MAKE: -pick add $@ %<
?S:d_telldirproto:
?S: This variable conditionally defines the HAS_TELLDIR_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the telldir() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
```

```
?C:HAS_TELLDIR_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the telldir() function.  Otherwise, it is up
?C: to the program to supply one.  A good guess
 is
?C:  extern long telldir(DIR*);
?C:.
?H:#$d_telldirproto HAS_TELLDIR_PROTO /**/
?H:.
?LINT:set d_telldirproto
: see if prototype for telldir is available
echo " "
set d_telldirproto telldir $i_systypes sys/types.h $i_dirent dirent.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_telldirproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998, Jarkko Hietaniemi
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_netinettcp: Inhdr
?MAKE: -pick add $@ %<
?S:i_netinettcp:
?S: This variable conditionally defines the I_NETINET_TCP symbol,
?S: and indicates whether a C program should include <netinet/tcp.h>.
?S:.
?C:I_NETINET_TCP:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <netinet/tcp.h>.
?C:.
?H:#$i_netinettcp   I_NETINET_TCP               /**/
?H:.
?LINT:set i_netinettcp
: see if netinet/tcp.h is available
set netinet/tcp.h i_netinettcp
eval $inhdr
```

Found in path(s):

* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_netinettcp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_scalbn: Inlibc
?MAKE: -pick add $@ %<
?S:d_scalbn:
?S: This variable conditionally defines the HAS_SCALBN symbol, which
?S: indicates to the C program that the scalbn() routine is available.
?S:.
?C:HAS_SCALBN:
?C: This symbol, if defined, indicates that the scalbn routine is
?C: available to multiply floating-point number by integral power
?C: of radix.
?C:.
?H:#$d_scalbn HAS_SCALBN  /**/
?H:.
?LINT:set d_scalbn
: see if scalbn exists
set scalbn d_scalbn
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_scalbn.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:sitehtml1dir sitehtml1direxp installsitehtml1dir: Getfile \
 Setprefixvar prefix siteprefix html1dir sed
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitehtml1dir=''
?S:sitehtml1dir:
?S: This variable contains the name of the directory in which site-specific
?S: html source pages are to be put.  It is the responsibility of the
```

```
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S: The standard distribution will put nothing in this directory.
?S: After perl
 has been installed, users may install their own local
?S: html pages in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitehtml1direxp="
?S:sitehtml1direxp:
?S: This variable is the same as the sitehtml1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsitehtml1dir="
?S:installsitehtml1dir:
?S: This variable is really the same as sitehtml1direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: html1direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installsitehtml1dir
?LINT:set sitehtml1dir
?LINT:set sitehtml1direxp
: determine where add-on html pages go
: There is no standard location, so try to copy the previously-selected
: directory structure for the core html pages.
case "$sitehtml1dir" in
")
   dflt=`echo "$html1dir" | $sed "s#^$prefix#$siteprefix#"` ;;
*)     dflt=$sitehtml1dir ;;
esac
case "$dflt" in
"|' ') dflt=none ;;
esac
fn=dn+~
rp='Pathname where the site-specific html pages should be installed?'
. ./getfile
prefixvar=sitehtml1dir
. ./setprefixvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/sitehtml1dir.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_sitecustomize.U,v $

```
?RCS:
?RCS: Copyright (c) 2005-2006 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_sitecustomize.U,v $
?RCS:
?MAKE:usesitecustomize: Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:usesitecustomize:
?S: This variable is set to true when the user requires a mechanism that
?S: allows the sysadmin to add entries to @INC at runtime.  This variable
?S: being set, makes perl run '$sitelib/sitecustomize.pl' at startup.
?S:.
?C:USE_SITECUSTOMIZE:
?C: This symbol, if defined, indicates that sitecustomize should
?C: be used.
?C:.
?H:?%<:@if USE_SITECUSTOMIZE
?H:?%<:#ifndef USE_SITECUSTOMIZE
?H:?%<:#$usesitecustomize USE_SITECUSTOMIZE  /**/
?H:?%<:#endif
?H:?%<:@end
?H:.
: Check if site customization support was requested
case "$usesitecustomize" in
   $define|true|[Yy]*)
 usesitecustomize="$define"
 ;;
    *)
 usesitecustomize="$undef"
 ;;
   esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_sitecustomize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_semop.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_semop.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_semop: Inlibc
?MAKE: -pick add $@ %<
?S:d_semop:
?S: This variable conditionally defines the HAS_SEMOP symbol, which
?S: indicates to the C program that the semop() routine is available.
?S:.
?C:HAS_SEMOP:
?C: This symbol, if defined, indicates that the semop() routine is
?C: available to execute semaphore operations.
?C:.
?H:#$d_semop
 HAS_SEMOP  /**/
?H:.
?LINT:set d_semop
: see if semop exists
set semop d_semop
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_semop.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: yacc.U,v 3.0.1.1 1994/05/13 15:28:48 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: yacc.U,v $
?RCS: Revision 3.0.1.1  1994/05/13  15:28:48  ram
?RCS: patch27: added byacc as another alternative (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:10:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:yacc yaccflags: Guess Myread Oldconfig byacc bison cat test _exe
?MAKE: -pick add $@ %<
```

```
?S:yacc:
?S: This variable holds the name of the compiler compiler we
?S: want to use in the Makefile. It can be yacc, byacc, or bison -y.
?S:.
?S:yaccflags:
?S: This
 variable contains any additional yacc flags desired by the
?S: user.  It is up to the Makefile to use this.
?S:.
?T:comp
: determine compiler compiler
case "$yacc" in
")
 dflt=yacc;;
*)
 dflt="$yacc";;
esac
echo " "
comp='yacc'
if $test -f "$byacc$_exe"; then
 dflt="$byacc"
 comp="byacc or $comp"
fi
if $test -f "$bison$_exe"; then
 comp="$comp or bison -y"
fi
rp="Which compiler compiler ($comp) shall I use?"
. ./myread
yacc="$ans"
case "$yacc" in
*bis*)
 case "$yacc" in
 *-y*) ;;
 *)
  yacc="$yacc -y"
  echo "(Adding -y option to bison to get yacc-compatible behavior.)"
  ;;
 esac
 ;;
esac

@if yaccflags
: see if we need extra yacc flags
dflt="$yaccflags"
case "$dflt" in
") dflt=none;;
esac
$cat <<EOH
```

```
Your yacc program may need extra flags to normally process the parser sources.
Do NOT specify any -d or -v flags here, since those are explicitly known
by the various Makefiles. However, if your machine has strange/undocumented
options (like -Sr# on SCO to specify the
 maximum number of grammar rules), then
please add them here.  To use no flags, specify the word "none".

EOH
rp="Any additional yacc flags?"
. ./myread
case "$ans" in
none) yaccflags="";;
*) yaccflags="$ans";;
esac

@end
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/yacc.U
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```
?RCS: $Id: d_newsadm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_newsadm.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:36:53  ram
?RCS: patch61: added Guess dependency
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:14:33  ram
?RCS: patch36: call ./eunice explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_newsadm newsadmin: cat contains Guess Setvar Myread Oldconfig
?MAKE: -pick add $@ %<
?S:d_newsadm:
?S: This variable
```

```
 conditionally defines the NEWS_ADMIN symbol, which
?S: indicates to the C program that there is a user who is in charge
?S: of news administration.
?S:.
?S:newsadmin:
?S: This variable holds the login name of the news administrator, if any.
?S:.
?C:NEWS_ADMIN (NEWSADMIN):
?C: This symbol, if defined, contains the login name of the news
?C: administrator.
?C:.
?H:#$d_newsadm NEWS_ADMIN "$newsadmin"  /**/
?H:.
?LINT:set d_newsadm
: get news administrator name
case "$newsadmin" in
")
 if $contains "^news:" /etc/passwd >/dev/null 2>&1 ; then
  dflt=news
 elif $contains "^usenet:" /etc/passwd >/dev/null 2>&1 ; then
  dflt=usenet
 elif ./eunice; then
  dflt=system
 else
  dflt=root
 fi
 ;;
*)
 dflt="$newsadmin"
 ;;
esac
$cat <<'EOM'

Many systems keep their news in a private directory, or have a non-superuser
in charge of administering news.  (If you don't have such a user, take the
default answer.)  I need the login name (not directory) which is used for
news administration.

EOM
rp="News
 admin login?"
. ./myread
newsadmin="$ans"
case "$newsadmin" in
root) val="$undef" ;;
*) val="$define" ;;
esac
set d_newsadm
```

```
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_newsadm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_class: Inlibc
?MAKE: -pick add $@ %<
?S:d_class:
?S: This variable conditionally defines the HAS_CLASS symbol, which
?S: indicates to the C program that the class() routine is available.
?S:.
?C:HAS_CLASS:
?C: This symbol, if defined, indicates that the class routine is
?C: available to classify doubles.  Available for example in AIX.
?C: The returned values are defined in <float.h> and are:
?C:
?C: FP_PLUS_NORM Positive normalized, nonzero
?C: FP_MINUS_NORM Negative normalized, nonzero
?C: FP_PLUS_DENORM Positive denormalized, nonzero
?C: FP_MINUS_DENORM Negative denormalized, nonzero
?C: FP_PLUS_ZERO +0.0
?C: FP_MINUS_ZERO -0.0
?C: FP_PLUS_INF +INF
?C: FP_MINUS_INF -INF
?C: FP_NANS  Signaling
 Not a Number (NaNS)
?C: FP_NANQ  Quiet Not a Number (NaNQ)
?C:.
?H:#$d_class HAS_CLASS  /**/
?H:.
?LINT:set d_class
: see if class exists
set class d_class
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_class.U

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```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: patchlevel.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:18:41  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:patchlevel: package baserev test rsrc
?MAKE: -pick add $@ %<
?T:Revision
?S:patchlevel:
?S: The patchlevel level of this package.
?S: The value of patchlevel comes from the patchlevel.h file.
?S:.
: get the patchlevel
echo " "
echo "Getting the current patchlevel..." >&4
if $test -r
 $rsrc/patchlevel.h;then
 patchlevel=`awk \
  '/^#[  ]*define[  ][  ]*PATCHLEVEL/ {print $3}' \
  < $rsrc/patchlevel.h`
else
 patchlevel=0
fi
echo "(You have $package $baserev PL$patchlevel.)"
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/patchlevel.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_htonl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_htonl.U,v $
?RCS: Revision 3.0.1.2  1994/08/29  16:09:25  ram
?RCS: patch32: now properly handles htonl() and friends when macros (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:45:00  ram
?RCS: patch23: now also check for htonl() macro (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:22  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_htonl: Inlibc Setvar i_niin i_sysin i_arpainet cat rm contains \
 cppstdin cppflags cppminus
?MAKE: -pick
 add $@ %<
?S:d_htonl:
?S: This variable conditionally defines HAS_HTONL if htonl() and its
?S: friends are available to do network order byte swapping.
?S:.
?C:HAS_HTONL (HTONL):
?C: This symbol, if defined, indicates that the htonl() routine (and
?C: friends htons() ntohl() ntohs()) are available to do network
?C: order byte swapping.
?C:.
?C:HAS_HTONS (HTONS):
?C: This symbol, if defined, indicates that the htons() routine (and
?C: friends htonl() ntohl() ntohs()) are available to do network
?C: order byte swapping.
?C:.
?C:HAS_NTOHL (NTOHL):
?C: This symbol, if defined, indicates that the ntohl() routine (and
?C: friends htonl() htons() ntohs()) are available to do network
?C: order byte swapping.
?C:.
?C:HAS_NTOHS (NTOHS):
?C: This symbol, if defined, indicates that the ntohs() routine (and
?C: friends htonl() htons() ntohl()) are available to do network
?C: order byte swapping.
?C:.
?H:#$d_htonl HAS_HTONL  /**/
?H:#$d_htonl HAS_HTONS  /**/
?H:#$d_htonl HAS_NTOHL  /**/
?H:#$d_htonl
```

```
 HAS_NTOHS  /**/
?H:.
?F:!htonl.c
?LINT:set d_htonl
: see if htonl --and friends-- exists
val="
set htonl val
eval $inlibc

: Maybe they are macros.
case "$val" in
$undef)
 $cat >htonl.c <<EOM
#include <stdio.h>
#include <sys/types.h>
#$i_niin I_NETINET_IN
#$i_sysin I_SYS_IN
#$i_arpainet I_ARPA_INET
#ifdef I_NETINET_IN
#include <netinet/in.h>
#endif
#ifdef I_SYS_IN
#include <sys/in.h>
#endif
#ifdef I_ARPA_INET
#include <arpa/inet.h>
#endif
#ifdef htonl
printf("Defined as a macro.");
#endif
EOM
 $cppstdin $cppflags $cppminus < htonl.c >htonl.E 2>/dev/null
 if $contains 'Defined as a macro' htonl.E >/dev/null 2>&1; then
  val="$define"
  echo "But it seems to be defined as a macro." >&4
 fi
 $rm -f htonl.?
 ;;
esac
set d_htonl
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_htonl.U
No license file was found, but licenses were detected in source scan.

?RCS: Id

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: Original author Jarkko Hietaniemi <jhi@iki.fi>
?RCS: Merged into dist by Andy Dougherty  July 13, 1998
?RCS:
?MAKE:trnl: Nothing
?MAKE: -pick add $@ %<
?S:trnl:
?S: This variable contains the value to be passed to the tr(1)
?S: command to transliterate a newline.  Typical values are
?S: '\012' and '\n'.  This is needed for EBCDIC systems where
?S: newline is not necessarily '\012'.
?S:.
?T: DJGPP
: Find the appropriate value for a newline for tr
?X: We can't
 use $tr since that would cause a circular dependency via Myread
?X: dos djgpp uses '\015\012', but reportedly is happy with '\012' in the
?X: tr command.  I don't know why it passes the '\n' test but later
?X: refuses to work correctly with it.  --AD  6/14/98
if test -n "$DJGPP"; then
	trnl='\012'
fi
if test X"$trnl" = X; then
 case "`echo foo | tr '\n' x 2>/dev/null`" in
 foox) trnl='\n' ;;
 esac
fi
if test X"$trnl" = X; then
 case "`echo foo | tr '\012' x 2>/dev/null`" in
 foox) trnl='\012' ;;
 esac
fi
if test X"$trnl" = X; then
	case "`echo foo | tr '\r\n' xy 2>/dev/null`" in
	fooxy) trnl='\n\r' ;;
	esac
fi
if test X"$trnl" = X; then
```

```
 cat <<EOM >&2

$me: Fatal Error: cannot figure out how to translate newlines with 'tr'.

EOM
 exit 1
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/trnl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_dlopen.U,v 3.0.1.2 1995/07/25 13:52:56 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_dlopen.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  13:52:56  ram
?RCS: patch56: force compile-link test since symbol might lie in crt0.o (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:34  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_dlopen: Inlibc runnm d_cplusplus ccflags gccversion
?MAKE: -pick add $@ %<
?S:d_dlopen:
?S: This variable conditionally defines the HAS_DLOPEN
 symbol, which
?S: indicates to the C program that the dlopen() routine is available.
?S:.
?C:HAS_DLOPEN :
?C: This symbol, if defined, indicates that the dlopen routine is
?C: available.
?C:.
?H:#$d_dlopen HAS_DLOPEN  /**/
?H:.
?T: xxx_runnm
?T: xxx_ccflags
?LINT:set d_dlopen
```

```
?X: We don't permanently change runnm and ccflags, but we do temporarily.
?LINT: change runnm
?LINT: change ccflags
: see if dlopen exists
?X: On NetBSD and FreeBSD, dlopen is available, but it is in
?X: /usr/lib/crt0.o, not in any of the libraries.  Therefore, do not
?X: use the nm extraction, but use a real compile and link test instead.
xxx_runnm="$runnm"
xxx_ccflags="$ccflags"
runnm=false
: with g++ one needs -shared to get is-in-libc to work for dlopen
case "$gccversion" in
") ;;
*Clang*) ;;
*) case "$d_cplusplus" in
 "$define") ccflags="$ccflags -shared" ;;
 esac
 ;;
esac
set dlopen d_dlopen
eval $inlibc
runnm="$xxx_runnm"
ccflags="$xxx_ccflags"
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_dlopen.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_PORTAR.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_PORTAR.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:08:42  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:40  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_PORTAR: cat +cc rm Setvar
?MAKE: -pick add $@ %<
```

```
?S:d_PORTAR:
?S: This variable conditionally handles definition of PORTAR,
?S: a creation of greater minds than I can imagine.
?S:.
?C:PORTAR:
?C: This manifest constant must
 be defined to 1 for some implementations
?C: of ar.h to get the portable ar most everybody uses.
?C:.
?L:ar_fmag:
?L:ARFMAG:
?L:SARMAG:
?H:#$d_PORTAR PORTAR 1 /**/
?H:.
?F:!portar
?LINT:set d_PORTAR
: see if we need to define PORTAR
echo " "
echo 'Checking to see if we need to define PORTAR for portable archives...' >&4
$cat >portar.c <<'EOCP'
#include <ar.h>
int main() {
 char *arfmag = ARFMAG;
 int sarmag = SARMAG;
 struct ar_hdr arh;

 strncpy(arh.ar_fmag, arfmag, 2);

#ifdef PORTAR
 printf("D\n");
#else
 printf("U\n");
#endif
 exit(0);}
EOCP
if $cc -o portar portar.c >/dev/null 2>&1 || \
 $cc -DPORTAR=1 -o portar portar.c >/dev/null 2>&1 ; then
 case "`./portar`" in
 D)
  val="$define"
  echo "We'll be defining PORTAR for you."
  ;;
 U)
  val="$undef"
  echo "We don't seem to need PORTAR defined here."
  ;;
 *)
  val="$define"
```

```
  echo "(My test program gave me an unexpected value!)"
  echo "I'll just define PORTAR to be sure."
  ;;
 esac
else
 echo "(Strange, I couldn't get my test
 program to compile.)"
 echo "We'll just define PORTAR in this case."
 val="$define"
fi
set d_PORTAR
eval $setvar
$rm -f portar*
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_PORTAR.U
No license file was found, but licenses were detected in source scan.

```
*  You may redistribute only under the terms of the Artistic Licence,
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/files/Jmake.tmpl
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: pkgsrc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:pkgsrc: src rsrc
?MAKE: -pick add $@ %<
?S:pkgsrc:
?S: This variable holds the absolute path of the package source.
?S:.
?C:PACKAGE_SOURCE_DIR:
?C: Holds the directory name holding the package source.
?C:.
?H:#define PACKAGE_SOURCE_DIR "$pkgsrc"
?H:.
: define absolute package source directory
case "$src" in
```

```
/*) pkgsrc=$src;;
*) pkgsrc=`cd $rsrc; pwd`;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/pkgsrc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: mansrc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: mansrc.U,v $
?RCS: Revision 3.0.1.9  1997/02/28  16:12:03  ram
?RCS: patch61: don't ask for AFS when they choose to not install pages
?RCS:
?RCS: Revision 3.0.1.8  1995/09/25  09:16:58  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.7  1995/02/15  14:15:31  ram
?RCS: patch51: was mistakenly duplicating /usr/local/man/man1 (ADO)
?RCS: patch51: added /opt/man/man1 to the lookpath (ADO)
?RCS:
?RCS: Revision
 3.0.1.6  1995/01/30  14:39:34  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:32:25  ram
?RCS: patch45: can now use Loc variables since path stripping is deferred
?RCS:
?RCS: Revision 3.0.1.4  1994/08/29  16:30:38  ram
?RCS: patch32: now uses installation prefix for default setting
?RCS:
?RCS: Revision 3.0.1.3  1994/05/06  15:11:10  ram
?RCS: patch23: added lint hint, assuring that nroff is used
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:14:39  ram
?RCS: patch16: now uses _nroff in case user asked for portability
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:09:31  ram
?RCS: patch10: allows for L1 man page extension (WAD)
```

```
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:mansrc mansrcexp manext installmansrc: afs cat nroff Loc Oldconfig \
 sysman spackage test Getfile Prefixit prefixexp Prefixup
?MAKE: -pick add $@ %<
?Y:TOP
?S:mansrc:
?S: This variable
 contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?S:mansrcexp:
?S: This variable is the same as the mansrc variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?S:installmansrc:
?S: This variable is really the same as mansrcexp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: mansrcexp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:manext:
?S: This variable contains the extension that the manual page should
?S: have: one of 'n', 'l', or '1'.  The Makefile must supply the '.'.
?S: See mansrc.
?S:.
?T:lookpath
: determine where manual pages go
set mansrc mansrc none
eval $prefixit
$cat <<EOM

$spackage has manual
 pages available in source form.
EOM
case "$nroff" in
nroff)
 echo "However, you don't have nroff, so they're probably useless to you."
 case "$mansrc" in
 ") mansrc="none";;
 esac;;
esac
echo "If you don't want the manual sources installed, answer 'none'."
case "$mansrc" in
```

```
")
 lookpath="$prefixexp/share/man/man1 $prefixexp/man/man1"
 lookpath="$lookpath $prefixexp/man/u_man/man1 $prefixexp/man/l_man/man1"
 lookpath="$lookpath /usr/local/man/man1 /opt/man/man1 /usr/man/manl"
 lookpath="$lookpath /usr/share/man/man1 /usr/local/share/man/man1"
 lookpath="$lookpath /usr/man/local/man1 /usr/man/l_man/man1"
 lookpath="$lookpath /usr/local/man/u_man/man1 /usr/local/man/l_man/man1"
 lookpath="$lookpath /usr/man/man.L"
 mansrc=`./loc . $prefixexp/man/man1 $lookpath`
 if $test -d "$mansrc"; then
  dflt="$mansrc"
 else
  dflt="$sysman"
 fi
 set dflt
 eval $prefixup
 ;;
' ') dflt=none;;
*)  dflt="$mansrc"
 ;;
esac
echo " "
fn=dn~
rp='Where do the manual pages (source) go?'
. ./getfile
if test
 "X$mansrcexp" != "X$ansexp"; then
 installmansrc="
fi
mansrc="$ans"
mansrcexp="$ansexp"
case "$mansrc" in
") mansrc=' '
 installmansrc=";;
esac
if $afs && $test "$mansrc"; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
manual pages reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installmansrc" in
 ") dflt=`echo $mansrcexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installmansrc";;
 esac
 fn=de~
```

```
 rp='Where will man pages be installed?'
 . ./getfile
 installmansrc="$ans"
else
 installmansrc="$mansrcexp"
fi

case "$mansrc" in
' ') manext='0';;
*l) manext=l;;
*n) manext=n;;
*o) manext=l;;
*p) manext=n;;
*C) manext=C;;
*L) manext=L;;
*L1) manext=L1;;
*) manext=1;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/mansrc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sjis2jis.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sjis2jis.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:25  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sjis2jis: Inlibc
?MAKE: -pick add $@ %<
?S:d_sjis2jis:
?S: This variable conditionally defines the HAS_SJIS2JIS symbol, which
?S: indicates to the C program that the sjis2jis() routine is available
?S: to convert SJIS to JIS.
?S:.
?C:HAS_SJIS2JIS:
?C: This symbol, if defined, indicates that the sjis2jis routine is
?C: available
```

```
 to convert SJIS to JIS.
?C:.
?H:#$d_sjis2jis HAS_SJIS2JIS  /**/
?H:.
?LINT:set d_sjis2jis
: see if sjis2jis exists
set sjis2jis d_sjis2jis
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sjis2jis.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_csh.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:32:18  ram
?RCS: patch61: added full_csh to preserve the full path even when portable
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:53  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_csh full_csh: csh Setvar
?MAKE: -pick add $@ %<
?S:d_csh:
?S: This variable conditionally defines the CSH symbol, which
?S: indicates to the C program that the C-shell exists.
?S:.
?S:full_csh:
?S: This variable contains the full pathname to 'csh', whether
 or
?S: not the user has specified 'portability'.  This is only used
?S: in the compiled C program, and we assume that all systems which
?S: can share this executable will have the same full pathname to
?S: 'csh.'
?S:.
?C:HAS_CSH:
?C: This symbol, if defined, indicates that the C-shell exists.
?C:.
```

```
?C:CSH:
?C: This symbol, if defined, contains the full pathname of csh.
?C:.
?X: Previously, I just did $d_csh CSH "$full_csh", but that caused
?X: problems on VMS where the config.sh extraction program changes
?X: $undef to a real cpp undef, and they then had  #undef CSH ""
?X: which the compiler didn't like.  It's easy to work around this,
?X: so I did.  --AD  3/1998.
?X: And we don't want to define CSH if !HAS_CSH, but we don't want
?X: those lines in config.h if they don't need CSH, so protect with ?CSH
?X: and not ?%<. --RAM, 15/02/2004
?H:?%<:#$d_csh HAS_CSH  /**/
?H:?CSH:#ifdef HAS_CSH
?H:?CSH:#define CSH "$full_csh" /**/
?H:?CSH:#endif
?H:.
?LINT:set d_csh
: get csh whereabouts
case
 "$csh" in
'csh') val="$undef" ;;
*) val="$define" ;;
esac
set d_csh
eval $setvar
: Respect a hint or command line value for full_csh.
case "$full_csh" in
") full_csh=$csh ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_csh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_socket.U,v 3.0.1.2 1997/02/28 15:46:00 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_socket.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:46:00  ram
?RCS: patch61: replaced .a with $_a all over the place
```

```
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:08:04  ram
?RCS: patch16: can now safely declare private nm_extract in dependencies
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_socket d_oldsock d_sockpair socketlib sockethdr \
 d_msg_ctrunc d_msg_dontroute d_msg_oob d_msg_peek
 d_msg_proxy \
 d_scm_rights d_sockaddr_sa_len d_sockaddr_in6 d_sin6_scope_id \
 d_ip_mreq d_ip_mreq_source d_ipv6_mreq d_ipv6_mreq_source \
 d_sockaddr_storage: \
 contains echo n c ar nm nm_opt nm_extract Inlibc Csym _a \
 Compile cat rm_try Setvar Hasfield sysroot
?MAKE: -pick add $@ %<
?S:d_socket:
?S: This variable conditionally defines HAS_SOCKET, which indicates
?S: that the BSD socket interface is supported.
?S:.
?S:d_sockpair:
?S: This variable conditionally defines the HAS_SOCKETPAIR symbol, which
?S: indicates that the BSD socketpair() is supported.
?S:.
?S:d_oldsock:
?S: This variable conditionally defines the OLDSOCKET symbol, which
?S: indicates that the BSD socket interface is based on 4.1c and not 4.2.
?S:.
?S:d_msg_ctrunc:
?S: This variable conditionally defines the HAS_MSG_CTRUNC symbol,
?S: which indicates that the MSG_CTRUNC is available.  #ifdef is
?S: not enough because it may be an enum, glibc has been known to do this.
?S:.
?S:d_msg_dontroute:
?S: This variable
 conditionally defines the HAS_MSG_DONTROUTE symbol,
?S: which indicates that the MSG_DONTROUTE is available.  #ifdef is
?S: not enough because it may be an enum, glibc has been known to do this.
?S:.
?S:d_msg_oob:
?S: This variable conditionally defines the HAS_MSG_OOB symbol,
?S: which indicates that the MSG_OOB is available.  #ifdef is
?S: not enough because it may be an enum, glibc has been known to do this.
?S:.
?S:d_msg_peek:
?S: This variable conditionally defines the HAS_MSG_PEEK symbol,
?S: which indicates that the MSG_PEEK is available.  #ifdef is
?S: not enough because it may be an enum, glibc has been known to do this.
```

```
?S:.
?S:d_msg_proxy:
?S: This variable conditionally defines the HAS_MSG_PROXY symbol,
?S: which indicates that the MSG_PROXY is available.  #ifdef is
?S: not enough because it may be an enum, glibc has been known to do this.
?S:.
?S:d_scm_rights:
?S: This variable conditionally defines the HAS_SCM_RIGHTS symbol,
?S: which indicates that the SCM_RIGHTS is available.
  #ifdef is
?S: not enough because it may be an enum, glibc has been known to do this.
?S:.
?S:d_sockaddr_sa_len:
?S: This variable conditionally defines the HAS_SOCKADDR_SA_LEN symbol,
?S: which indicates that a struct sockaddr structure has the sa_len
?S: member.
?S:.
?S:d_sockaddr_in6:
?S: This variable conditionally defines the HAS_SOCKADDR_IN6 symbol, which
?S: indicates the availability of a struct sockaddr_in6.
?S:.
?S:d_sockaddr_storage:
?S: This variable conditionally defines the HAS_SOCKADDR_STORAGE symbol,
?S: which indicates the availability of a struct sockaddr_storage.
?S:.
?S:d_sin6_scope_id:
?S: This variable conditionally defines the HAS_SIN6_SCOPE_ID symbol, which
?S: indicates that a struct sockaddr_in6 structure has the sin6_scope_id
?S: member.
?S:.
?S:d_ip_mreq:
?S: This variable conditionally defines the HAS_IP_MREQ symbol, which
?S: indicates the availability of a struct ip_mreq.
?S:.
?S:d_ip_mreq_source:
?S: This variable conditionally defines the HAS_IP_MREQ_SOURCE
 symbol,
?S: which indicates the availability of a struct ip_mreq_source.
?S:.
?S:d_ipv6_mreq:
?S: This variable conditionally defines the HAS_IPV6_MREQ symbol, which
?S: indicates the availability of a struct ipv6_mreq.
?S:.
?S:d_ipv6_mreq_source:
?S: This variable conditionally defines the HAS_IPV6_MREQ_SOURCE symbol,
?S: which indicates the availability of a struct ipv6_mreq_source.
?S:.
?S:socketlib:
```

```
?S: This variable has the names of any libraries needed for socket support.
?S:.
?S:sockethdr:
?S: This variable has any cpp '-I' flags needed for socket support.
?S:.
?C:HAS_SOCKET (SOCKET):
?C: This symbol, if defined, indicates that the BSD socket interface is
?C: supported.
?C:.
?C:HAS_SOCKETPAIR (SOCKETPAIR):
?C: This symbol, if defined, indicates that the BSD socketpair() call is
?C: supported.
?C:.
?C:USE_OLDSOCKET (OLDSOCKET):
?C: This symbol, if defined, indicates that the 4.1c BSD socket interface
?C: is supported instead of the 4.2/4.3 BSD socket interface. For instance,
?C: there
 is no setsockopt() call.
?C:.
?C:HAS_MSG_CTRUNC:
?C: This symbol, if defined, indicates that the MSG_CTRUNC is supported.
?C: Checking just with #ifdef might not be enough because this symbol
?C: has been known to be an enum.
?C:.
?C:HAS_MSG_DONTROUTE:
?C: This symbol, if defined, indicates that the MSG_DONTROUTE is supported.
?C: Checking just with #ifdef might not be enough because this symbol
?C: has been known to be an enum.
?C:.
?C:HAS_MSG_OOB:
?C: This symbol, if defined, indicates that the MSG_OOB is supported.
?C: Checking just with #ifdef might not be enough because this symbol
?C: has been known to be an enum.
?C:.
?C:HAS_MSG_PEEK:
?C: This symbol, if defined, indicates that the MSG_PEEK is supported.
?C: Checking just with #ifdef might not be enough because this symbol
?C: has been known to be an enum.
?C:.
?C:HAS_MSG_PROXY:
?C: This symbol, if defined, indicates that the MSG_PROXY is supported.
?C: Checking just with #ifdef might not be enough because this
 symbol
?C: has been known to be an enum.
?C:.
?C:HAS_SCM_RIGHTS:
?C: This symbol, if defined, indicates that the SCM_RIGHTS is supported.
?C: Checking just with #ifdef might not be enough because this symbol
```

```
?C: has been known to be an enum.
?C:.
?C:HAS_SOCKADDR_SA_LEN:
?C: This symbol, if defined, indicates that the struct sockaddr
?C: structure has a member called sa_len, indicating the length of
?C: the structure.
?C:.
?C:HAS_SOCKADDR_IN6:
?C: This symbol, if defined, indicates the availability of
?C: struct sockaddr_in6;
?C:.
?C:HAS_SOCKADDR_STORAGE:
?C: This symbol, if defined, indicates the availability of
?C: struct sockaddr_storage;
?C:.
?C:HAS_SIN6_SCOPE_ID:
?C: This symbol, if defined, indicates that the struct sockaddr_in6
?C: structure has a member called sin6_scope_id.
?C:.
?C:HAS_IP_MREQ:
?C: This symbol, if defined, indicates the availability of
?C: struct ip_mreq;
?C:.
?C:HAS_IP_MREQ_SOURCE:
?C: This symbol, if defined, indicates the availability of
?C: struct ip_mreq_source;
?C:.
?C:HAS_IPV6_MREQ:
?C: This
 symbol, if defined, indicates the availability of
?C: struct ipv6_mreq;
?C:.
?C:HAS_IPV6_MREQ_SOURCE:
?C: This symbol, if defined, indicates the availability of
?C: struct ipv6_mreq_source;
?C:.
?H:#$d_socket HAS_SOCKET  /**/
?H:#$d_sockpair HAS_SOCKETPAIR /**/
?H:#$d_sockaddr_sa_len HAS_SOCKADDR_SA_LEN /**/
?H:#$d_oldsock USE_OLDSOCKET /**/
?H:#$d_msg_ctrunc HAS_MSG_CTRUNC /**/
?H:#$d_msg_dontroute HAS_MSG_DONTROUTE /**/
?H:#$d_msg_oob HAS_MSG_OOB /**/
?H:#$d_msg_peek HAS_MSG_PEEK /**/
?H:#$d_msg_proxy HAS_MSG_PROXY /**/
?H:#$d_scm_rights HAS_SCM_RIGHTS /**/
?H:#$d_sockaddr_in6 HAS_SOCKADDR_IN6 /**/
?H:#$d_sockaddr_storage HAS_SOCKADDR_STORAGE /**/
```

```
?H:#$d_sin6_scope_id HAS_SIN6_SCOPE_ID /**/
?H:#$d_ip_mreq HAS_IP_MREQ /**/
?H:#$d_ip_mreq_source HAS_IP_MREQ_SOURCE /**/
?H:#$d_ipv6_mreq HAS_IPV6_MREQ /**/
?H:#$d_ipv6_mreq_source HAS_IPV6_MREQ_SOURCE /**/
?H:.
?T:val net ENUM enum
?LINT:set d_sockpair d_sockaddr_sa_len
?LINT:set d_msg_ctrunc d_msg_dontroute
 d_msg_oob d_msg_peek d_msg_proxy
?LINT:set d_scm_rights d_sockaddr_in6 d_sin6_scope_id d_ip_mreq
?LINT:set d_ip_mreq_source d_ipv6_mreq d_ipv6_mreq_source d_sockaddr_storage
: see whether socket exists
socketlib="
sockethdr="
echo " "
$echo $n "Hmm... $c" >&4
if set socket val -f d_socket; eval $csym; $val; then
   echo "Looks like you have Berkeley networking support." >&4
   d_socket="$define"
?X: now check for advanced features
   if set setsockopt val -f; eval $csym; $val; then
 d_oldsock="$undef"
   else
 echo "...but it uses the old BSD 4.1c interface, rather than 4.2." >&4
 d_oldsock="$define"
   fi
else
?X: HP-UX, for one, puts all the socket stuff in socklib.o. Note that if we
?X: come here on HP-UX, then we must have used nm to get symbols, or we really
?X: don't have sockets anyway...
   if $contains socklib libc.list >/dev/null 2>&1; then
 echo "Looks like you have Berkeley networking support." >&4
 d_socket="$define"
 : we will have to assume that it supports
 the 4.2 BSD interface
 d_oldsock="$undef"
   else
 echo "You don't have Berkeley networking in libc$_a..." >&4
?X: look for optional networking libraries
 if test "X$d_socket" = "X$define"; then
     echo "...but you seem to believe that you have sockets." >&4
 else
     for net in net socket
     do
  if test -f $sysroot/usr/lib/lib$net$_a; then
?X: space between two  '(' needed for ksh
      ( ($nm $nm_opt $sysroot/usr/lib/lib$net$_a | eval $nm_extract) ||  \
```

```
      $ar t $sysroot/usr/lib/lib$net$_a) 2>/dev/null >> libc.list
      if $contains socket libc.list >/dev/null 2>&1; then
   d_socket="$define"
   socketlib="-l$net"
   case "$net" in
   net)
       echo "...but the Wollongong group seems to have hacked it in." >&4
       sockethdr="-I$sysroot/usr/netinclude"
       ;;
   esac
   echo "Found Berkeley sockets interface in lib$net." >&4
?X: now check for advanced features
   if $contains setsockopt libc.list >/dev/null 2>&1; then
       d_oldsock="$undef"
   else
       echo
 "...using the old BSD 4.1c interface, rather than 4.2." >&4
       d_oldsock="$define"
   fi
   break
      fi
  fi
     done
     if test "X$d_socket" != "X$define"; then
        echo "or anywhere else I see." >&4
        d_socket="$undef"
        d_oldsock="$undef"
     fi
 fi
   fi
fi

@if HAS_SOCKETPAIR || d_sockpair
: see if socketpair exists
set socketpair d_sockpair
eval $inlibc

@end

echo "Checking the availability sa_len in the sock struct ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
int main() {
struct sockaddr sa;
return (sa.sa_len);
}
EOF
```

```
val="$undef"
set try; if eval $compile; then
   val="$define"
fi
set d_sockaddr_sa_len; eval $setvar
$rm_try

echo "Checking the availability struct sockaddr_in6 ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct sockaddr_in6 sin6;
return (sin6.sin6_family);
}
EOF
val="$undef"
set try; if eval $compile; then
   val="$define"
fi
set d_sockaddr_in6;
 eval $setvar
$rm_try

echo "Checking the availability struct sockaddr_storage ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct sockaddr_storage sastor;
return (sastor.ss_family);
}
EOF
val="$undef"
set try; if eval $compile; then
   val="$define"
fi
set d_sockaddr_storage; eval $setvar
$rm_try

echo "Checking the availability sin6_scope_id in struct sockaddr_in6 ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
```

```
struct sockaddr_in6 sin6;
return (sin6.sin6_scope_id);
}
EOF
val="$undef"
set try; if eval $compile; then
   val="$define"
fi
set d_sin6_scope_id; eval $setvar
$rm_try

echo "Checking the availability struct ip_mreq ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct ip_mreq mreq;
return (mreq.imr_multiaddr.s_addr);
}
EOF
val="$undef"
set try; if eval $compile; then

 val="$define"
fi
set d_ip_mreq; eval $setvar
$rm_try

echo "Checking the availability struct ip_mreq_source ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct ip_mreq_source mreq;
return (mreq.imr_multiaddr.s_addr);
}
EOF
val="$undef"
set try; if eval $compile; then
      val="$define"
fi
set d_ip_mreq_source; eval $setvar
$rm_try

echo "Checking the availability struct ipv6_mreq ..." >&4
$cat >try.c <<EOF
```

```
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct ipv6_mreq mreq;
return (mreq.ipv6mr_interface);
}
EOF
val="$undef"
set try; if eval $compile; then
   val="$define"
fi
set d_ipv6_mreq; eval $setvar
$rm_try

echo "Checking the availability struct ipv6_mreq_source ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct ipv6_mreq_source mreq;
return (mreq.imr_multiaddr.s_addr);
}
EOF
val="$undef"
set try; if eval $compile;
 then
      val="$define"
fi
set d_ipv6_mreq_source; eval $setvar
$rm_try

?X: these constants are known to be troublesomely defined as enums
?X: so that ifdef will not work for detecting their presence.
echo "Checking the availability of certain socket constants..." >&4
for ENUM in MSG_CTRUNC MSG_DONTROUTE MSG_OOB MSG_PEEK MSG_PROXY SCM_RIGHTS; do
   enum=`$echo $ENUM|./tr '[A-Z]' '[a-z]'`
   $cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
int main() {
   int i = $ENUM;
}
EOF
   val="$undef"
   set try; if eval $compile; then
 val="$define"
```

```
  fi
  set d_${enum}; eval $setvar
  $rm_try
done
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_socket.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strerror_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_strerror_l:
?S: This variable conditionally defines the HAS_STRERROR_L symbol, which
?S: indicates to the C program that the strerror_l() routine is available
?S: to return the error message for a given errno value in a particular
?S: locale (identified by a locale_t object).
?S:.
?C:HAS_STRERROR_L:
?C: This symbol, if defined, indicates that the strerror_l routine is
?C: available to return the error message for a given errno value in
?C: a particular locale (identified by a locale_t object).
?C:.
?H:#$d_strerror_l HAS_STRERROR_L  /**/
?H:.
?LINT:set d_strerror_l
: see if strerror_l exists
set strerror_l d_strerror_l
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strerror_l.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?MAKE:usesocks: Myread Oldconfig Setvar spackage package
?MAKE: -pick add $@ %<
?Y:TOP
?S:usesocks:
?S: This variable conditionally defines the USE_SOCKS symbol,
?S: and indicates that Perl should be built to use SOCKS.
?S:.
?C:USE_SOCKS:
?C: This symbol, if defined, indicates that Perl should
?C: be built to use socks.
?C:.
?H:?%<:#$usesocks USE_SOCKS  /**/
?H:.
?D:usesocks="
?LINT:set usesocks
: check for requested SOCKS support
case "$usesocks" in
$define|true|[yY]*) dflt='y';;
*)
 dflt='n';;
esac
cat <<EOM

$spackage can be built to use the SOCKS proxy protocol library.
If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp="Build $package for SOCKS?"
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*)      val="$undef" ;;
esac
set usesocks
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/usesocks.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ctermid_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
```

```
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_ctermid_r ctermid_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads extern_C
?MAKE: -pick add $@ %<
?S:d_ctermid_r:
?S: This variable conditionally defines the HAS_CTERMID_R symbol,
?S: which indicates to the C program that the ctermid_r()
?S: routine is available.
?S:.
?S:ctermid_r_proto:
?S: This variable encodes the prototype of ctermid_r.
?S: It is zero if d_ctermid_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_ctermid_r
?S: is defined.
?S:.
?C:HAS_CTERMID_R:
?C: This symbol, if defined, indicates that the ctermid_r routine
?C: is available to ctermid re-entrantly.
?C:.
?C:CTERMID_R_PROTO:
?C: This
 symbol encodes the prototype of ctermid_r.
?C: It is zero if d_ctermid_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_ctermid_r
?C: is defined.
?C:.
?H:#$d_ctermid_r HAS_CTERMID_R /**/
?H:#define CTERMID_R_PROTO $ctermid_r_proto /**/
?H:.
?T:try hdrs d_ctermid_r_proto
: see if ctermid_r exists
set ctermid_r d_ctermid_r
eval $inlibc
case "$d_ctermid_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h "
 case "$d_ctermid_r_proto:$usethreads" in
 ":define") d_ctermid_r_proto=define
  set d_ctermid_r_proto ctermid_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_ctermid_r_proto" in
 define)
 case "$ctermid_r_proto" in
 "|0) try='char* ctermid_r(char*);'
 ./protochk "$extern_C $try" $hdrs && ctermid_r_proto=B_B ;;
```

```
 esac
 case "$ctermid_r_proto" in
 "|0) d_ctermid_r=undef
  ctermid_r_proto=0
  echo "Disabling ctermid_r, cannot determine prototype." >&4 ;;
 * ) case "$ctermid_r_proto" in
  REENTRANT_PROTO*) ;;
  *)
 ctermid_r_proto="REENTRANT_PROTO_$ctermid_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "ctermid_r has no prototype, not using it." >&4 ;;
  esac
  d_ctermid_r=undef
  ctermid_r_proto=0
  ;;
 esac
 ;;
*) ctermid_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_ctermid_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fdclose: Inlibc
?MAKE: -pick add $@ %<
?S:d_fdclose:
?S: This variable conditionally defines the HAS_FDCLOSE symbol, which
?S: indicates to the C program that the fdclose() routine is available.
?S:.
?C:HAS_FDCLOSE:
?C: This symbol, if defined, indicates that the fdclose routine is
?C: available to free a FILE structure without closing the underlying
?C: file descriptor.  This function appeared in FreeBSD 10.2.
?C:.
?H:#$d_fdclose HAS_FDCLOSE  /**/
?H:.
?LINT:set d_fdclose
: see if fdclose exists
```

```
set fdclose d_fdclose
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fdclose.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_ustat.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_ustat: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_ustat:
?S: This variable conditionally defines the I_USTAT symbol, and indicates
?S: whether a C program should include <ustat.h>.
?S:.
?C:I_USTAT:
?C: This symbol, if defined, indicates that <ustat.h> exists and
?C: should be included.
?C:.
?H:#$i_ustat I_USTAT  /**/
?H:.
?LINT:set i_ustat
: see if this is a ustat.h system
set ustat.h i_ustat
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_ustat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_dlfcn.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
```

```
?RCS:
?RCS: $Log: i_dlfcn.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:21:53  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:i_dlfcn: Inhdr
?MAKE: -pick add $@ %<
?S:i_dlfcn:
?S: This variable conditionally defines the I_DLFCN symbol, which
?S: indicates to the C program that <dlfcn.h> exists and should
?S: be included.
?S:.
?C:I_DLFCN:
?C: This symbol, if defined, indicates that <dlfcn.h> exists
 and should
?C: be included.
?C:.
?H:#$i_dlfcn I_DLFCN  /**/
?H:.
?LINT:set i_dlfcn
: see if dlfcn is available
set dlfcn.h i_dlfcn
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_dlfcn.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2021, H.Merijn Brand & Tony Cook
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:st_dev_size st_dev_sign: cat echo i_stdlib Setvar Compile run rm_try
?MAKE: -pick add $@ %<
?S:st_dev_sign:
?S: This variable contains the signedness of struct stat's st_dev.
?S: 1 for unsigned, -1 for signed.
?S:.
?S:st_dev_size:
?S: This variable contains the size of struct stat's st_dev in bytes.
?S:.
?C:ST_DEV_SIZE:
?C: This variable contains the size of struct stat's st_dev in bytes.
```

```
?C:.
?C:ST_DEV_SIGN:
?C: This symbol holds the signedness of struct stat's st_dev.
?C: 1 for unsigned, -1 for signed.
?C:.
?H:#define ST_DEV_SIGN
 $st_dev_sign /* st_dev sign */
?H:#define ST_DEV_SIZE $st_dev_size /* st_dev size */
?H:.
?F:!try
: Check the size of st_dev
$echo " "
$echo "Checking the size of st_dev..." >&4
$cat > try.c <<EOCP
#include <sys/stat.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() {
   struct stat st;
   printf("%d\n", (int)sizeof(st.st_dev));
   exit(0);
}
EOCP
set try
if eval $compile_ok; then
 val=`$run ./try`
 case "$val" in
 ") st_dev_size=4
  $echo "(I can't execute the test program--guessing $st_dev_size.)" >&4
  ;;
 *) st_dev_size=$val
  $echo "Your st_dev is $st_dev_size bytes long."
  ;;
 esac
else
 st_dev_size=4
 $echo "(I can't compile the test program--guessing $st_dev_size.)" >&4
fi
$rm_try

: Check if st_dev is signed
$echo " "
$echo "Checking the sign of st_dev..." >&4
$cat > try.c <<EOCP
#include <sys/stat.h>
```

```
#include <stdio.h>
int main() {
 struct stat foo;
       foo.st_dev = -1;
 if (foo.st_dev < 0)
  printf("-1\n");
 else
  printf("1\n");
}
EOCP
set
 try
if eval $compile; then
 val=`$run ./try`
 case "$val" in
 ") st_dev_sign=1
  $echo "(I can't execute the test program--guessing unsigned.)" >&4
  ;;
 *) st_dev_sign=$val
  case "$st_dev_sign" in
   1) $echo "Your st_dev is unsigned." ;;
  -1) $echo "Your st_dev is signed."   ;;
  esac
  ;;
 esac
else
 st_dev_sign=1
 $echo "(I can't compile the test program--guessing unsigned.)" >&4
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/st_dev_def.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_socks.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_socks: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_socks:
?S: This variable conditionally defines the I_SOCKS symbol, and indicates
?S: whether a C program should include <socks.h>.
```

```
?S:.
?C:I_SOCKS:
?C: This symbol, if defined, indicates that <socks.h> exists and
?C: should be included.
?C:.
?H:#$i_socks I_SOCKS  /**/
?H:.
?LINT:set i_socks
: see if this is a socks.h system
set socks.h i_socks
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_socks.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:use64bitint use64bitall archname64: Myread Oldconfig Setvar test \
 usemorebits longsize ccflags d_quad uquadtype Compile rm_try run
?MAKE: -pick add $@ %<
?Y:TOP
?S:use64bitint:
?S: This variable conditionally defines the USE_64_BIT_INT symbol,
?S: and indicates that 64-bit integer types should be used
?S: when available.  The minimal possible 64-bitness
?S: is employed, just enough to get 64-bit integers into Perl.
?S: This may mean using for example "long longs", while your memory
?S: may still be limited to 2 gigabytes.
?S:.
?S:use64bitall:
?S: This variable conditionally defines the USE_64_BIT_ALL symbol,
?S: and indicates that 64-bit integer types should be used
?S: when available.  The maximal
 possible
?S: 64-bitness is employed: LP64 or ILP64, meaning that you will
?S: be able to use more than 2 gigabytes of memory.  This mode is
?S: even more binary incompatible than USE_64_BIT_INT. You may not
?S: be able to run the resulting executable in a 32-bit CPU at all or
?S: you may need at least to reboot your OS to 64-bit mode.
?S:.
?S:archname64:
```

```
?S: This variable is used for the 64-bitness part of $archname.
?S:.
?C:USE_64_BIT_INT:
?C: This symbol, if defined, indicates that 64-bit integers should
?C: be used when available.  If not defined, the native integers
?C: will be employed (be they 32 or 64 bits).  The minimal possible
?C: 64-bitness is used, just enough to get 64-bit integers into Perl.
?C: This may mean using for example "long longs", while your memory
?C: may still be limited to 2 gigabytes.
?C:.
?C:USE_64_BIT_ALL:
?C: This symbol, if defined, indicates that 64-bit integers should
?C: be used when available.  If not defined, the native integers
?C: will be used (be
 they 32 or 64 bits).  The maximal possible
?C: 64-bitness is employed: LP64 or ILP64, meaning that you will
?C: be able to use more than 2 gigabytes of memory.  This mode is
?C: even more binary incompatible than USE_64_BIT_INT. You may not
?C: be able to run the resulting executable in a 32-bit CPU at all or
?C: you may need at least to reboot your OS to 64-bit mode.
?C:.
?H:?%<:#ifndef USE_64_BIT_INT
?H:?%<:#$use64bitint USE_64_BIT_INT  /**/
?H:?%<:#endif
?H:?%<:#ifndef USE_64_BIT_ALL
?H:?%<:#$use64bitall USE_64_BIT_ALL  /**/
?H:?%<:#endif
?H:.
?INIT:archname64="
?LINT:extern ccflags
?LINT:use usemorebits
?LINT:extern use64bits
?LINT:extern uselonglong
?LINT:extern uselonglongs
?LINT:extern use64bitints
?LINT:extern use64bitsint
?LINT:extern use64bitsall
?T:libcquad
?F:!try
?F:!use64bitint.cbu
?F:!use64bitall.cbu
: Do we want 64bit support
case "$uselonglong" in
"$define"|true|[yY]*)
 cat <<EOM >&4

*** Configure -Duselonglong is deprecated, using -Duse64bitint instead.
EOM
```

```
 use64bitint="$define"
 ;;
esac
case
 "$use64bits" in
"$define"|true|[yY]*)
 cat <<EOM >&4

*** Configure -Duse64bits is deprecated, using -Duse64bitint instead.
EOM
 use64bitint="$define"
 ;;
esac
case "$use64bitints" in
"$define"|true|[yY]*)
 cat <<EOM >&4

*** There is no Configure -Duse64bitints, using -Duse64bitint instead.
EOM
 use64bitint="$define"
 ;;
esac
case "$use64bitsint" in
"$define"|true|[yY]*)
 cat <<EOM >&4

*** There is no Configure -Duse64bitsint, using -Duse64bitint instead.
EOM
 use64bitint="$define"
 ;;
esac
case "$uselonglongs" in
"$define"|true|[yY]*)
 cat <<EOM >&4

*** There is no Configure -Duselonglongs, using -Duse64bitint instead.
EOM
 use64bitint="$define"
 ;;
esac
case "$use64bitsall" in
"$define"|true|[yY]*)
 cat <<EOM >&4

*** There is no Configure -Duse64bitsall, using -Duse64bitall instead.
EOM
 use64bitall="$define"
 ;;
```

```
esac

case "$ccflags" in
*-DUSE_LONG_LONG*|*-DUSE_64_BIT_INT*|*-DUSE_64_BIT_ALL*) use64bitint="$define";;
esac
case "$use64bitall" in
"$define"|true|[yY]*)
 use64bitint="$define" ;;
esac

case "$longsize" in
8) cat <<EOM

You have natively 64-bit long integers.
EOM
  val="$define"
  ;;
*) case "$use64bitint" in
  "$define"|true|[yY]*) dflt='y';;
  *) dflt='n';;
  esac
  case "$d_quad" in
  "$define") ;;
  *) dflt='n' ;;
  esac
  cat <<EOM

Perl can be built to take advantage of 64-bit integer types
on some systems.  To do so, Configure can be run with -Duse64bitint.
Choosing this option will most probably introduce binary incompatibilities.

If this doesn't make any sense to you, just accept the default '$dflt'.
(The default has been chosen based on your configuration.)
EOM
  rp='Try to use 64-bit integers, if available?'
  . ./myread
  case "$ans" in
  [yY]*) val="$define" ;;
  *)     val="$undef"  ;;
  esac
  ;;
esac
set use64bitint
eval $setvar

case "$use64bitall" in
"$define"|true|[yY]*) dflt='y' ;;
*) case "$longsize" in
```

```
  8) dflt='y' ;;
  *) dflt='n' ;;
  esac
  ;;
esac
cat <<EOM

You may also
 choose to try maximal 64-bitness.  It means using as much
64-bitness as possible on the platform.  This in turn means even more
binary incompatibilities.  On the other hand, your platform may not
have any more 64-bitness available than what you already have chosen.

If this doesn't make any sense to you, just accept the default '$dflt'.
(The default has been chosen based on your configuration.)
EOM
rp='Try to use maximal 64-bit support, if available?'
. ./myread
case "$ans" in
[yY]*) val="$define" ;;
*)     val="$undef"  ;;
esac
set use64bitall
eval $setvar
case "$use64bitall" in
"$define")
 case "$use64bitint" in
 "$undef")
  cat <<EOM

Since you have chosen a maximally 64-bit build, I'm also turning on
the use of 64-bit integers.
EOM
  use64bitint="$define" ;;
 esac
 ;;
esac

: Look for a hint-file generated 'call-back-unit'.  If the
: user has specified that a 64-bit perl is to be built,
: we may need to set or change some other defaults.
if $test -f use64bitint.cbu; then
 echo "Your
 platform has some specific hints regarding 64-bit integers, using them..."
 . ./use64bitint.cbu
fi
case "$use64bitint" in
"$define"|true|[yY]*)
```

```
: This test was common to all the OpenBSD forks, and seems harmless for
: other platforms:
echo " "
echo "Checking if your C library has broken 64-bit functions..." >&4
cat >try.c <<EOCP
#include <stdio.h>
typedef $uquadtype myULL;
int main (void)
{
  struct {
double d;
myULL  u;
  } *p, test[] = {
{4294967303.15, 4294967303ULL},
{4294967294.2,  4294967294ULL},
{4294967295.7,  4294967295ULL},
{0.0, 0ULL}
  };
  for (p = test; p->u; p++) {
myULL x = (myULL)p->d;
if (x != p->u) {
    printf("buggy\n");
    return 0;
}
  }
  printf("ok\n");
  return 0;
}
EOCP
set try
if eval $compile_ok; then
    libcquad=`$run ./try`
    echo "Your C library's 64-bit functions are $libcquad."
else
    echo "(I can't seem to compile the test program.)"
    echo "Assuming that your C library's 64-bit functions are ok."
    libcquad="ok"
fi
$rm_try

case
"$libcquad" in
    buggy*)
 cat >&4 <<EOM

*** You have a C library with broken 64-bit functions.
*** 64-bit support does not work reliably in this configuration.
*** Please rerun Configure without -Duse64bitint and/or -Dusemorebits.
```

```
*** Cannot continue, aborting.

EOM
  exit 1
  ;;
 esac
 case "$longsize" in
 4) case "$archname64" in
    ") archname64=64int ;;
    esac
    ;;
 esac
 ;;
esac

: Look for a hint-file generated 'call-back-unit'.  If the
: user has specified that a maximally 64-bit perl is to be built,
: we may need to set or change some other defaults.
if $test -f use64bitall.cbu; then
 echo "Your platform has some specific hints regarding 64-bit builds, using them..."
 . ./use64bitall.cbu
fi
case "$use64bitall" in
"$define"|true|[yY]*)
 case "$longsize" in
 4) case "$archname64" in
    "|64int) archname64=64all ;;
    esac
    ;;
 esac
 ;;
esac

case "$d_quad:$use64bitint" in
$undef:$define)
 cat >&4 <<EOF

*** You have chosen to use 64-bit
 integers,
*** but none can be found.
*** Please rerun Configure without -Duse64bitint and/or -Dusemorebits.
*** Cannot continue, aborting.

EOF
 exit 1
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/use64bits.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpwnam_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getpwnam_r getpwnam_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_pwd extern_C
?MAKE: -pick add $@ %<
?S:d_getpwnam_r:
?S: This variable conditionally defines the HAS_GETPWNAM_R symbol,
?S: which indicates to the C program that the getpwnam_r()
?S: routine is available.
?S:.
?S:getpwnam_r_proto:
?S: This variable encodes the prototype of getpwnam_r.
?S: It is zero if d_getpwnam_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getpwnam_r
?S: is defined.
?S:.
?C:HAS_GETPWNAM_R:
?C: This symbol, if defined, indicates that the getpwnam_r routine
?C: is available to
 getpwnam re-entrantly.
?C:.
?C:GETPWNAM_R_PROTO:
?C: This symbol encodes the prototype of getpwnam_r.
?C: It is zero if d_getpwnam_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getpwnam_r
?C: is defined.
?C:.
?H:#$d_getpwnam_r HAS_GETPWNAM_R /**/
?H:#define GETPWNAM_R_PROTO $getpwnam_r_proto /**/
?H:.
?T:try hdrs d_getpwnam_r_proto
: see if getpwnam_r exists
set getpwnam_r d_getpwnam_r
eval $inlibc
case "$d_getpwnam_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_pwd pwd.h"
```

```
case "$d_getpwnam_r_proto:$usethreads" in
":define") d_getpwnam_r_proto=define
 set d_getpwnam_r_proto getpwnam_r $hdrs
 eval $hasproto ;;
*) ;;
esac
case "$d_getpwnam_r_proto" in
define)
case "$getpwnam_r_proto" in
"|0) try='int getpwnam_r(const char*, struct passwd*, char*, size_t, struct passwd**);'
./protochk "$extern_C $try" $hdrs && getpwnam_r_proto=I_CSBWR ;;
esac
case "$getpwnam_r_proto" in
"|0) try='int getpwnam_r(const char*, struct passwd*,
char*, int, struct passwd**);'
./protochk "$extern_C $try" $hdrs && getpwnam_r_proto=I_CSBIR ;;
esac
case "$getpwnam_r_proto" in
"|0) try='struct passwd* getpwnam_r(const char*, struct passwd*, char*, int);'
./protochk "$extern_C $try" $hdrs && getpwnam_r_proto=S_CSBI ;;
esac
case "$getpwnam_r_proto" in
"|0) try='int getpwnam_r(const char*, struct passwd*, char*, int);'
./protochk "$extern_C $try" $hdrs && getpwnam_r_proto=I_CSBI ;;
esac
case "$getpwnam_r_proto" in
"|0) d_getpwnam_r=undef
 getpwnam_r_proto=0
 echo "Disabling getpwnam_r, cannot determine prototype." >&4 ;;
* ) case "$getpwnam_r_proto" in
 REENTRANT_PROTO*) ;;
 *) getpwnam_r_proto="REENTRANT_PROTO_$getpwnam_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "getpwnam_r has no prototype, not using it." >&4 ;;
 esac
 d_getpwnam_r=undef
 getpwnam_r_proto=0
 ;;
esac
;;
*) getpwnam_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getpwnam_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_erfc: Inlibc
?MAKE: -pick add $@ %<
?S:d_erfc:
?S: This variable conditionally defines the HAS_ERFC symbol, which
?S: indicates to the C program that the erfc() routine is available.
?S:.
?C:HAS_ERFC:
?C: This symbol, if defined, indicates that the erfc routine is
?C: available to do the complementary error function.
?C:.
?H:#$d_erfc HAS_ERFC  /**/
?H:.
?LINT:set d_erfc
: see if erfc exists
set erfc d_erfc
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_erfc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Instruct.U,v 3.0.1.3 1997/02/28 15:02:55 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Instruct.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:02:55  ram
?RCS: patch61: logname / whoami sequence rewritten to use case
?RCS:
?RCS: Revision 3.0.1.2  1995/02/15  14:11:34  ram
?RCS: patch51: author name now appears at the end of the paragraph (WED)
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:12:05  ram
```

```
?RCS: patch45: now documents the & escape to turn -d on at the read prompt
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:04  ram
?RCS: Baseline for
 dist 3.0 netwide release.
?RCS:
?X:
?X: This unit spew out the directions that we want everyone to read.  I try to
?X: keep the first "pagefull" much less than a page since they don't know it
?X: isn't going to go shooting off the top of the screen, and we don't want
?X: to panic them yet.
?X:
?MAKE:Instruct: Myread Configdir Devel contains
?MAKE: -pick wipe $@ %<
?T:user needman firsttime
: general instructions
needman=true
firsttime=true
user=`(logname) 2>/dev/null`
case "$user" in
") user=`whoami 2>&1`;;
esac
if $contains "^$user\$" ../.config/instruct >/dev/null 2>&1; then
 firsttime=false
 echo " "
 rp='Would you like to see the instructions?'
 dflt=n
 . ./myread
 case "$ans" in
 [yY]*) ;;
 *) needman=false;;
 esac
fi
if $needman; then
 cat <<EOH

This installation shell script will examine your system and ask you questions
to determine how the <PACKAGENAME> package should be installed. If you get
stuck on a question, you may use a ! shell escape to start a subshell or
execute a
 command.  Many of the questions will have default answers in square
brackets; typing carriage return will give you the default.

On some of the questions which ask for file or directory names you are allowed
to use the ~name construct to specify the login directory belonging to "name",
even if you don't have a shell which knows about that.  Questions where this is
allowed will be marked "(~name ok)".
```

```
EOH
 rp=''
 dflt='Type carriage return to continue'
 . ./myread
 cat <<'EOH'

The prompter used in this script allows you to use shell variables and
backticks in your answers.  You may use $1, $2, etc...  to refer to the words
in the default answer, as if the default line was a set of arguments given to a
script shell.  This means you may also use $* to repeat the whole default line,
so you do not have to re-type everything to add something to the default.

Every time there is a substitution, you will have to confirm.  If there is an
error (e.g. an unmatched backtick), the default answer
 will remain unchanged
and you will be prompted again.

If you are in a hurry, you may run 'Configure -d'.  This will bypass nearly all
the questions and use the computed defaults (or the previous answers if there
was already a config.sh file). Type 'Configure -h' for a list of options.
You may also start interactively and then answer '& -d' at any prompt to turn
on the non-interactive behaviour for the remainder of the execution.

EOH
 . ./myread
 cat <<EOH

Much effort has been expended to ensure that this shell script will run on any
Unix system.  If despite that it blows up on yours, your best bet is to edit
Configure and run it again.  If you can't run Configure for some reason,
you'll have to generate a config.sh file by hand.  Whatever problems you
have, let me (<MAINTLOC>) know how I blew it.

This installation script affects things in two ways:

1) it may do direct variable substitutions on some of the files included
  in this kit.
2) it builds a config.h file for inclusion in
 C programs.  You may edit
  any of these files as the need arises after running this script.

If you make a mistake on a question, there is no easy way to back up to it
currently.  The easiest thing to do is to edit config.sh and rerun all the SH
files.  Configure will offer to let you do this before it runs the SH files.

EOH
?X: In case they played with the prompter...
 dflt='Type carriage return to continue'
```

```
 . ./myread
 case "$firsttime" in
 true) echo $user >>../.config/instruct;;
 esac
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Instruct.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: selecttype.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:20:09  ram
?RCS: patch61: always include <sys/select.h> when available for test
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  14:14:06  ram
?RCS: patch56: removed harmful spaces in assignment
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:06:31  ram
?RCS: patch30: created by ADO
?RCS:
?MAKE:selecttype: cat +cc +ccflags rm Oldconfig Myread \
 d_fd_set d_select d_socket i_systime
 i_sysselct
?MAKE: -pick add $@ %<
?S:selecttype:
?S: This variable holds the type used for the 2nd, 3rd, and 4th
?S: arguments to select.  Usually, this is 'fd_set *', if HAS_FD_SET
?S: is defined, and 'int *' otherwise.  This is only useful if you
?S: have select(), naturally.
?S:.
?C:Select_fd_set_t:
?C: This symbol holds the type used for the 2nd, 3rd, and 4th
?C: arguments to select.  Usually, this is 'fd_set *', if HAS_FD_SET
?C: is defined, and 'int *' otherwise.  This is only useful if you
?C: have select(), of course.
```

```
?C:.
?H:#define Select_fd_set_t  $selecttype /**/
?H:.
?T:xxx yyy
: check for type of arguments to select.  This will only really
: work if the system supports prototypes and provides one for
: select.
case "$d_select" in
$define)
 : Make initial guess
 case "$selecttype" in
 "|' ')
  case "$d_fd_set" in
  $define) xxx='fd_set *' ;;
  *) xxx='int *' ;;
  esac
  ;;
 *)  xxx="$selecttype"
  ;;
 esac
 : backup guess
 case "$xxx" in
 'fd_set *') yyy='int *'
 ;;
 'int *') yyy='fd_set *' ;;
 esac

 $cat <<EOM

Checking to see what type of arguments are expected by select().
EOM
 $cat >try.c <<EOCP
#$i_systime I_SYS_TIME
#$i_sysselct I_SYS_SELECT
#$d_socket HAS_SOCKET
#include <sys/types.h>
#ifdef HAS_SOCKET
#include <sys/socket.h> /* Might include <sys/bsdtypes.h> */
#endif
#ifdef I_SYS_TIME
#include <sys/time.h>
#endif
#ifdef I_SYS_SELECT
#include <sys/select.h>
#endif
int main()
{
 int width;
```

```
 Select_fd_set_t readfds;
 Select_fd_set_t writefds;
 Select_fd_set_t exceptfds;
 struct timeval timeout;
 select(width, readfds, writefds, exceptfds, &timeout);
 exit(0);
}
EOCP
 if $cc $ccflags -c -DSelect_fd_set_t="$xxx" try.c >/dev/null 2>&1 ; then
  selecttype="$xxx"
  echo "Your system uses $xxx for the arguments to select." >&4
 elif $cc $ccflags -c -DSelect_fd_set_t="$yyy" try.c >/dev/null 2>&1 ; then
  selecttype="$yyy"
  echo "Your system uses $yyy for the arguments to select." >&4
 else
  rp='What is the type for the 2nd, 3rd, and 4th arguments
 to select?'
  dflt="$xxx"
  . ./myread
  selecttype="$ans"
 fi
 $rm -f try.[co]
 ;;
*) selecttype='int *'
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/selecttype.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_pipe2: Inlibc
?MAKE: -pick add $@ %<
?S:d_pipe2:
?S: This variable conditionally defines the HAS_PIPE2 symbol, which
?S: indicates to the C program that the pipe2() routine is available
?S: to create an inter-process channel.
?S:.
?C:HAS_PIPE2:
```

```
?C: This symbol, if defined, indicates that the pipe2 routine is
?C: available to create an inter-process channel.
?C:.
?H:#$d_pipe2 HAS_PIPE2  /**/
?H:.
?LINT:set d_pipe2
: see if pipe2 exists
set pipe2 d_pipe2
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_pipe2.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_htonl.U,v $
?RCS: Revision 3.0.1.2  1994/08/29  16:09:25  ram
?RCS: patch32: now properly handles htonl() and friends when macros (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:45:00  ram
?RCS: patch23: now also check for htonl() macro (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:22  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_htonl: Inlibc Setvar i_niin i_sysin cat rm contains \
 cppstdin cppflags cppminus
?MAKE: -pick add $@ %<
?S:d_htonl:
?S: This variable conditionally
 defines HAS_HTONL if htonl() and its
?S: friends are available to do network order byte swapping.
?S:.
?C:HAS_HTONL (HTONL):
?C: This symbol, if defined, indicates that the htonl() routine (and
?C: friends htons() ntohl() ntohs()) are available to do network
?C: order byte swapping.
?C:.
```

```
?C:HAS_HTONS (HTONS):
?C: This symbol, if defined, indicates that the htons() routine (and
?C: friends htonl() ntohl() ntohs()) are available to do network
?C: order byte swapping.
?C:.
?C:HAS_NTOHL (NTOHL):
?C: This symbol, if defined, indicates that the ntohl() routine (and
?C: friends htonl() htons() ntohs()) are available to do network
?C: order byte swapping.
?C:.
?C:HAS_NTOHS (NTOHS):
?C: This symbol, if defined, indicates that the ntohs() routine (and
?C: friends htonl() htons() ntohl()) are available to do network
?C: order byte swapping.
?C:.
?H:#$d_htonl HAS_HTONL  /**/
?H:#$d_htonl HAS_HTONS  /**/
?H:#$d_htonl HAS_NTOHL  /**/
?H:#$d_htonl HAS_NTOHS  /**/
?H:.
?F:!htonl.c
?LINT:set d_htonl
:
 see if htonl --and friends-- exists
val=''
set htonl val
eval $inlibc

: Maybe they are macros.
case "$val" in
$undef)
 $cat >htonl.c <<EOM
#include <stdio.h>
#include <sys/types.h>
#$i_niin I_NETINET_IN
#$i_sysin I_SYS_IN
#ifdef I_NETINET_IN
#include <netinet/in.h>
#endif
#ifdef I_SYS_IN
#include <sys/in.h>
#endif
#ifdef htonl
printf("Defined as a macro.");
#endif
EOM
 $cppstdin $cppflags $cppminus < htonl.c >htonl.E 2>/dev/null
 if $contains 'Defined as a macro' htonl.E >/dev/null 2>&1; then
```

```
  val="$define"
  echo "But it seems to be defined as a macro." >&4
 fi
 $rm -f htonl.?
 ;;
esac
set d_htonl
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_htonl.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Oldsym.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:06:58  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit follows the creation of the config.sh file. It adds some
?X: special symbols: defines from patchlevel.h file if any and CONFIG,
?X: which is set to true. Then, we try to keep all the new symbols that
?X: may come from a hint file or a previous config.sh file.
?X:
?MAKE:Oldsym:
 Config_sh Options test hint src sed sort uniq
?MAKE: -pick add $@ %<
?T:CONFIG sym tmp
?F:!UU
: add special variables
$test -f $src/patchlevel.h && \
awk '/^#define/ {printf "%s=%s\n",$2,$3}' $src/patchlevel.h >>config.sh
echo "CONFIG=true" >>config.sh

: propagate old symbols
```

```
if $test -f UU/config.sh; then
?X: Make sure each symbol is unique in oldconfig.sh
 <UU/config.sh $sort | $uniq >UU/oldconfig.sh
?X:
?X: All the symbols that appear twice come only from config.sh (hence the
?X: two config.sh in the command line). These symbols will be removed by
?X: the uniq -u command. The oldsyms file thus contains all the symbols
?X: that did not appear in the produced config.sh (Larry Wall).
?X:
?X: Do not touch the -u flag of uniq.  This means you too, Jarkko.
?X:
 $sed -n 's/^\([a-zA-Z_0-9]*\)=.*/\1/p' \
  config.sh config.sh UU/oldconfig.sh |\
  $sort | $uniq -u >UU/oldsyms
 set X `cat UU/oldsyms`
 shift
 case $# in
 0) ;;
 *)
  cat <<EOM
Hmm...You had some extra variables I don't know about...I'll
 try to keep 'em...
EOM
  echo ": Variables propagated from previous config.sh file." >>config.sh
  for sym in `cat UU/oldsyms`; do
   echo "    Propagating $hint variable "'$'"$sym..."
   eval 'tmp="$'"${sym}"'"'
   echo "$tmp" | \
    sed -e "s/'/'\''\''/g" -e "s/^/$sym='/" -e "s/$/'/" >>config.sh
  done
  ;;
 esac
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Oldsym.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_readdir64_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_readdir64_r readdir64_r_proto: Inlibc Protochk Hasproto i_systypes \
```

```
 usethreads i_dirent extern_C
?MAKE: -pick add $@ %<
?S:d_readdir64_r:
?S: This variable conditionally defines the HAS_READDIR64_R symbol,
?S: which indicates to the C program that the readdir64_r()
?S: routine is available.
?S:.
?S:readdir64_r_proto:
?S: This variable encodes the prototype of readdir64_r.
?S: It is zero if d_readdir64_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_readdir64_r
?S: is defined.
?S:.
?C:HAS_READDIR64_R:
?C: This symbol, if defined, indicates that the readdir64_r routine
?C: is
 available to readdir64 re-entrantly.
?C:.
?C:READDIR64_R_PROTO:
?C: This symbol encodes the prototype of readdir64_r.
?C: It is zero if d_readdir64_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_readdir64_r
?C: is defined.
?C:.
?H:#$d_readdir64_r HAS_READDIR64_R /**/
?H:#define READDIR64_R_PROTO $readdir64_r_proto /**/
?H:.
?T:try hdrs d_readdir64_r_proto
: see if readdir64_r exists
set readdir64_r d_readdir64_r
eval $inlibc
case "$d_readdir64_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_dirent dirent.h"
 case "$d_readdir64_r_proto:$usethreads" in
 ":define") d_readdir64_r_proto=define
  set d_readdir64_r_proto readdir64_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_readdir64_r_proto" in
 define)
 case "$readdir64_r_proto" in
 "|0) try='int readdir64_r(DIR*, struct dirent64*, struct dirent64**);'
 ./protochk "$extern_C $try" $hdrs && readdir64_r_proto=I_TSR ;;
 esac
 case "$readdir64_r_proto" in
 "|0) try='int readdir64_r(DIR*,
```

```
 struct dirent64*);'
 ./protochk "$extern_C $try" $hdrs && readdir64_r_proto=I_TS ;;
 esac
 case "$readdir64_r_proto" in
 "|0) d_readdir64_r=undef
  readdir64_r_proto=0
  echo "Disabling readdir64_r, cannot determine prototype." >&4 ;;
 * ) case "$readdir64_r_proto" in
  REENTRANT_PROTO*) ;;
  *) readdir64_r_proto="REENTRANT_PROTO_$readdir64_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "readdir64_r has no prototype, not using it." >&4 ;;
  esac
  d_readdir64_r=undef
  readdir64_r_proto=0
  ;;
 esac
 ;;
*) readdir64_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_readdir64_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysvfs.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysvfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysvfs:
?S: This variable conditionally defines the I_SYSVFS symbol,
?S: and indicates whether a C program should include <sys/vfs.h>.
?S:.
?C:I_SYS_VFS:
?C: This symbol, if defined, indicates that <sys/vfs.h> exists and
?C: should be included.
?C:.
```

```
?H:#$i_sysvfs I_SYS_VFS  /**/
?H:.
?LINT:set i_sysvfs
: see if this is a sys/vfs.h system
set sys/vfs.h i_sysvfs
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_sysvfs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getprotoent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getprotoent_r getprotoent_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getprotoent_r:
?S: This variable conditionally defines the HAS_GETPROTOENT_R symbol,
?S: which indicates to the C program that the getprotoent_r()
?S: routine is available.
?S:.
?S:getprotoent_r_proto:
?S: This variable encodes the prototype of getprotoent_r.
?S: It is zero if d_getprotoent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getprotoent_r
?S: is defined.
?S:.
?C:HAS_GETPROTOENT_R:
?C: This symbol, if defined, indicates that the getprotoent_r
 routine
?C: is available to getprotoent re-entrantly.
?C:.
?C:GETPROTOENT_R_PROTO:
?C: This symbol encodes the prototype of getprotoent_r.
?C: It is zero if d_getprotoent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getprotoent_r
?C: is defined.
?C:.
?H:#$d_getprotoent_r HAS_GETPROTOENT_R /**/
?H:#define GETPROTOENT_R_PROTO $getprotoent_r_proto /**/
?H:.
```

```
?T:try hdrs d_getprotoent_r_proto
: see if getprotoent_r exists
set getprotoent_r d_getprotoent_r
eval $inlibc
case "$d_getprotoent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getprotoent_r_proto:$usethreads" in
 ":define") d_getprotoent_r_proto=define
  set d_getprotoent_r_proto getprotoent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getprotoent_r_proto" in
 define)
 case "$getprotoent_r_proto" in
 "|0) try='int getprotoent_r(struct protoent*, char*, size_t, struct protoent**);'
 ./protochk "$extern_C $try" $hdrs && getprotoent_r_proto=I_SBWR
 ;;
 esac
 case "$getprotoent_r_proto" in
 "|0) try='int getprotoent_r(struct protoent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getprotoent_r_proto=I_SBI ;;
 esac
 case "$getprotoent_r_proto" in
 "|0) try='struct protoent* getprotoent_r(struct protoent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getprotoent_r_proto=S_SBI ;;
 esac
 case "$getprotoent_r_proto" in
 "|0) try='int getprotoent_r(struct protoent*, struct protoent_data*);'
 ./protochk "$extern_C $try" $hdrs && getprotoent_r_proto=I_SD ;;
 esac
 case "$getprotoent_r_proto" in
 "|0) d_getprotoent_r=undef
  getprotoent_r_proto=0
  echo "Disabling getprotoent_r, cannot determine prototype." >&4 ;;
 * ) case "$getprotoent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getprotoent_r_proto="REENTRANT_PROTO_$getprotoent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getprotoent_r has no prototype, not using it." >&4 ;;
  esac
  d_getprotoent_r=undef
  getprotoent_r_proto=0
```

```
  ;;
 esac
 ;;
*) getprotoent_r_proto=0
 ;;
esac
```

Found
 in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getprotoent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_bfd.U,v $
?RCS:
?RCS: Copyright (c) 2014 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_bfd: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_bfd:
?S: This variable conditionally defines the I_BFD symbol, and
?S: indicates whether a C program can include <bfd.h>.
?S:.
?C:I_BFD:
?C: This symbol, if defined, indicates that <bfd.h> exists and
?C: can be included.
?C:.
?H:#$i_bfd I_BFD  /**/
?H:.
?LINT:set i_bfd
: see if this is a bfd.h system
set bfd.h i_bfd
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_bfd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the WRITEME file.
```

```
?RCS:
?MAKE:d_writev: Inlibc
?MAKE: -pick add $@ %<
?S:d_writev:
?S: This variable conditionally defines the HAS_WRITEV symbol, which
?S: indicates to the C program that the writev() routine is available.
?S:.
?C:HAS_WRITEV:
?C: This symbol, if defined, indicates that the writev routine is
?C: available to do scatter writes.
?C:.
?H:#$d_writev HAS_WRITEV  /**/
?H:.
?LINT:set d_writev
: see if writev exists
set writev d_writev
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_writev.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_regex.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Sidney C. Smith <scsmith@cbda9.apgea.army.mil>
?RCS:
?RCS: $Log: i_regex.U,v $
?RCS: Revision 3.0.1.1  1995/01/30  14:35:45  ram
?RCS: patch49: created
?RCS:
?RCS:
?MAKE:i_regex: Inhdr
?MAKE: -pick add $@ %<
?S:i_regex:
?S: This variable conditionally defines the I_REGEX symbol, which
?S: indicates to the C program that <regex.h> exists and should
?S: be included.
?S:.
?C:I_REGEX:
```

```
?C: This symbol, if defined, indicates that <regex.h> exists
 and should
?C: be included.
?C:.
?H:#$i_regex I_REGEX /**/
?H:.
?LINT:set i_regex
: see if regex is available
set regex.h i_regex
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_regex.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_statblks.U,v 3.0 1993/08/18 12:07:29 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_statblks.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:29  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_statblks: Hasfield i_sysstat
?MAKE: -pick add $@ %<
?S:d_statblks:
?S: This variable conditionally defines USE_STAT_BLOCKS
?S: if this system has a stat structure declaring
?S: st_blksize and st_blocks.
?S:.
?C:USE_STAT_BLOCKS (STATBLOCKS):
?C: This symbol is defined if this system has a stat structure declaring
?C: st_blksize and st_blocks.
?C:.
?H:?%<:#ifndef
 USE_STAT_BLOCKS
?H:?%<:#$d_statblks USE_STAT_BLOCKS /**/
?H:?%<:#endif
?H:.
?LINT:set d_statblks
: see if stat knows about block sizes
```

```
echo " "
echo "Checking to see if your struct stat has st_blocks field..." >&4
set d_statblks stat st_blocks $i_sysstat sys/stat.h
eval $hasfield
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_statblks.U
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```
?RCS: $Id$
?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X: This unit generates a $hasstruct string that is used internally
?X: by Configure to check if this system has a field for a
?X: particular struct (of if this system has a particular struct!)
?X:
?X: To use it, say something like:
?X:  set d_statblocks stat i_sysstat sys/stat.h
?X:  eval $hasstruct
?X: Or, for more complicated sets of headers, do something like
?X: hdrs="$define sys/foo.h
?X:  $i_sysbar sys/bar.h
?X:  $i_syszot sys/zot.h
?X:  $i_zappa zappa.h"
?X: set d_statblocks stat $hdrs
?X: eval $hasstruct
?X:
?MAKE:Hasstruct: Setvar rm_try test Compile
?MAKE: -pick add $@ %<
?T:varname struct
?V:hasstruct
: Define hasstruct macro for Configure internal use
hasstruct='varname=$1; struct=$2; shift;
 shift;
while $test $# -ge 2; do
 case "$1" in
 $define) echo "#include <$2>";;
 esac ;
   shift 2;
done > try.c;
echo "int main () { struct $struct foo; }" >> try.c;
set try;
if eval $compile; then
```

```
 val="$define";
else
 val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try'
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/Hasstruct.U
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```
?RCS: $Id: d_wctomb.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_wctomb.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:20:43  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_wctomb: Inlibc
?MAKE: -pick add $@ %<
?S:d_wctomb:
?S: This variable conditionally defines the HAS_WCTOMB symbol, which
?S: indicates to the C program that the wctomb() routine is available
?S: to convert a wide character to a multibyte.
?S:.
?C:HAS_WCTOMB (WCTOMB):
?C: This
 symbol, if defined, indicates that the wctomb routine is available
?C: to convert a wide character to a multibyte.
?C:.
?H:#$d_wctomb HAS_WCTOMB  /**/
?H:.
?LINT:set d_wctomb
: see if wctomb exists
set wctomb d_wctomb
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_wctomb.U
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```
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?RCS:
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?RCS:
?MAKE:d_unordered: Inlibc
?MAKE: -pick add $@ %<
?S:d_unordered:
?S: This variable conditionally defines the HAS_UNORDERED symbol, which
?S: indicates to the C program that the unordered() routine is available.
?S:.
?C:HAS_UNORDERED:
?C: This symbol, if defined, indicates that the unordered routine is
?C: available to check whether two doubles are unordered
?C: (effectively: whether either of them is NaN)
?C:.
?H:#$d_unordered HAS_UNORDERED  /**/
?H:.
?LINT:set d_unordered
: see if unordered exists
set unordered d_unordered
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_unordered.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setnetent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_setnetent_r setnetent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_setnetent_r:
?S: This variable conditionally defines the HAS_SETNETENT_R symbol,
```

```
?S: which indicates to the C program that the setnetent_r()
?S: routine is available.
?S:.
?S:setnetent_r_proto:
?S: This variable encodes the prototype of setnetent_r.
?S: It is zero if d_setnetent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setnetent_r
?S: is defined.
?S:.
?C:HAS_SETNETENT_R:
?C: This symbol, if defined, indicates that the setnetent_r routine
?C: is
 available to setnetent re-entrantly.
?C:.
?C:SETNETENT_R_PROTO:
?C: This symbol encodes the prototype of setnetent_r.
?C: It is zero if d_setnetent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setnetent_r
?C: is defined.
?C:.
?H:#$d_setnetent_r HAS_SETNETENT_R /**/
?H:#define SETNETENT_R_PROTO $setnetent_r_proto /**/
?H:.
?T:try hdrs d_setnetent_r_proto
: see if setnetent_r exists
set setnetent_r d_setnetent_r
eval $inlibc
case "$d_setnetent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_setnetent_r_proto:$usethreads" in
 ":define") d_setnetent_r_proto=define
  set d_setnetent_r_proto setnetent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_setnetent_r_proto" in
 define)
 case "$setnetent_r_proto" in
 "|0) try='int setnetent_r(int, struct netent_data*);'
 ./protochk "$extern_C $try" $hdrs && setnetent_r_proto=I_ID ;;
 esac
 case "$setnetent_r_proto" in
 "|0) try='void setnetent_r(int, struct netent_data*);'
 ./protochk
 "$extern_C $try" $hdrs && setnetent_r_proto=V_ID ;;
 esac
 case "$setnetent_r_proto" in
```

```
 "|0) d_setnetent_r=undef
  setnetent_r_proto=0
  echo "Disabling setnetent_r, cannot determine prototype." >&4 ;;
 * ) case "$setnetent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) setnetent_r_proto="REENTRANT_PROTO_$setnetent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "setnetent_r has no prototype, not using it." >&4 ;;
  esac
  d_setnetent_r=undef
  setnetent_r_proto=0
  ;;
 esac
 ;;
*) setnetent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_setnetent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtod_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtod_l:
?S: This variable conditionally defines the HAS_STRTOD_L symbol, which
?S: indicates to the C program that the strtod_l() routine is available.
?S:.
?C:HAS_STRTOD_L:
?C: This symbol, if defined, indicates that the strtod_l routine is
?C: available to convert strings to long doubles.
?C:.
?H:#$d_strtod_l HAS_STRTOD_L  /**/
?H:.
?LINT:set d_strtod_l
: see if strtod_l exists
```

```
set strtod_l d_strtod_l
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_strtod_l.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_gdbm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_gdbm.U,v $
?RCS: Revision 3.0.1.1  1995/05/12  12:16:39  ram
?RCS: patch54: made more robust by checking both header and lib (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_gdbm: Inhdr Inlibc Setvar
?MAKE: -pick add $@ %<
?S:i_gdbm (d_gdbm):
?S: This variable conditionally defines the I_GDBM symbol, which
?S: indicates to the C program that <gdbm.h> exists and should
?S: be included.
?S:.
?C:I_GDBM
 (HAS_GDBM):
?C: This symbol, if defined, indicates that <gdbm.h> exists and should
?C: be included.
?C:.
?H:#$i_gdbm I_GDBM /**/
?H:.
?T:t_gdbm d_gdbm_open
?LINT:set i_gdbm
: see if gdbm.h is available
?X: t_gdbm is a tentative check. We might just have the .h, not the lib -- ADO
set gdbm.h t_gdbm
eval $inhdr
case "$t_gdbm" in
$define)
 : see if gdbm_open exists
```

```
 set gdbm_open d_gdbm_open
 eval $inlibc
 case "$d_gdbm_open" in
 $undef)
  t_gdbm="$undef"
  echo "We won't be including <gdbm.h>"
  ;;
 esac
 ;;
esac
val="$t_gdbm"
set i_gdbm
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_gdbm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_wait4.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_wait4.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_wait4: Inlibc
?MAKE: -pick add $@ %<
?S:d_wait4:
?S: This variable conditionally defines the HAS_WAIT4 symbol, which
?S: indicates the wait4() routine is available.
?S:.
?C:HAS_WAIT4 (WAIT4):
?C: This symbol, if defined, indicates that wait4() exists.
?C:.
?H:#$d_wait4 HAS_WAIT4 /**/
?H:.
?LINT:set d_wait4
: see if there is a wait4
set
```

```
 wait4 d_wait4
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_wait4.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sigaction.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:44:29  ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_sigaction: Csym Setvar cat cc ccflags ldflags libs rm _o
?MAKE: -pick add $@ %<
?S:d_sigaction:
?S: This variable conditionally defines the HAS_SIGACTION symbol, which
?S: indicates that the Vr4 sigaction() routine is available.
?S:.
?C:HAS_SIGACTION:
?C: This symbol, if defined, indicates that Vr4's sigaction() routine
?C: is available.
?C:.
?H:#$d_sigaction HAS_SIGACTION /**/
?H:.
?T:val
?LINT:set
 d_sigaction
: see if we have sigaction
echo " "
if set sigaction val -f d_sigaction; eval $csym; $val; then
 echo 'sigaction() found.' >&4
 val="$define"
else
 echo 'sigaction NOT found.' >&4
 val="$undef"
fi
?X:
```

```
?X: Solaris 2.5_x86 with SunWorks Pro C 3.0.1 doesn't have a complete
?X: sigaction structure if compiled with cc -Xc.  This compile test
?X: will fail then.  <doughera@lafcol.lafayette.edu>
?X:
$cat > set.c <<'EOP'
#include <stdio.h>
#include <sys/types.h>
#include <signal.h>
int main()
{
   struct sigaction act, oact;
}
EOP
if $cc $ccflags $ldflags -o set set.c $libs >/dev/null 2>&1; then
 :
else
 echo "But you don't seem to have a useable struct sigaction." >&4
 val="$undef"
fi
set d_sigaction; eval $setvar
$rm -f set set$_o set.c
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sigaction.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS:
?MAKE:i_stdint: Inhdr
?MAKE: -pick add $@ %<
?S:i_stdint:
?S: This variable conditionally defines the I_STDINT symbol, which
?S: indicates to the C program that <stdint.h> exists and should
?S: be included.
?S:.
?C:I_STDINT:
?C: This symbol, if defined, indicates that <stdint.h> exists and
?C: should be included.
?C:.
?H:#$i_stdint I_STDINT  /**/
?H:.
?LINT:set i_stdint
: see if stdint is available
set stdint.h i_stdint
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_stdint.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysstatvfs.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysstatvfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysstatvfs:
?S: This variable conditionally defines the I_SYSSTATVFS symbol,
?S: and indicates whether a C program should include <sys/statvfs.h>.
?S:.
?C:I_SYS_STATVFS:
?C: This symbol, if defined, indicates that <sys/statvfs.h> exists and
?C: should be included.
?C:.
?H:#$i_sysstatvfs I_SYS_STATVFS  /**/
?H:.
?LINT:set i_sysstatvfs
: see if this is a sys/statvfs.h system
set sys/statvfs.h i_sysstatvfs
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_sysstatvfs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysun.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?X:
?X: This unit looks wether <inttypes.h> is available or not
?X:
?MAKE:i_inttypes: Inhdr
?MAKE: -pick add $@ %<
?S:i_inttypes:
?S: This variable conditionally defines I_INTTYPES, which indicates
?S: to the C program that it should include <inttypes.h> to get
?S: format conversions of integer types.
?S:.
?C:I_INTTYPES:
?C: This symbol, if defined, indicates to the C program that it should
?C: include
 <inttypes.h> to get format conversions of integer types.
?C:.
?H:#$i_inttypes I_INTTYPES  /**/
?H:.
?LINT:set i_inttypes
: see if this is a inttypes.h system
set inttypes.h i_inttypes
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_inttypes.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2017, Karl Williamson
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_mbrlen: Inlibc
?MAKE: -pick add $@ %<
?S:d_mbrlen:
?S: This variable conditionally defines the HAS_MBRLEN symbol if the
?S: mbrlen() routine is available to be used to get the length of
?S: multi-byte character strings.
?S:.
?C:HAS_MBRLEN:
?C: This symbol, if defined, indicates that the mbrlen routine is
?C: available to get the length of multi-byte character strings.
?C:.
?H:#$d_mbrlen HAS_MBRLEN /**/
?H:.
```

```
?LINT: set d_mbrlen
: see if mbrlen exists
set mbrlen d_mbrlen
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_mbrlen.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorbin.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorbin.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:d_vendorbin vendorbin vendorbinexp installvendorbin: Getfile \
 Setprefixvar Oldconfig Prefixit vendorprefix
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorbin:
?S: This variable contains the eventual value of the VENDORBIN symbol.
?S: It may have a ~ on the front.
?S: The standard distribution will put nothing in this directory.
?S: Vendors who distribute perl
 may wish to place additional
?S: binaries in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorbinexp:
?S: This variable is the ~name expanded version of vendorbin, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorbin="
?S:installvendorbin:
?S: This variable is really the same as vendorbinexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
```

```
?S:d_vendorbin:
?S: This variable conditionally defines PERL_VENDORBIN.
?S:.
?C:PERL_VENDORBIN:
?C: If defined, this symbol contains the name of a directory
?C: for holding vendor-supplied executables.
?C: It may have a ~ on the front.
?C: The standard distribution will put nothing in this directory.
?C: Vendors who distribute perl may wish to place additional
?C: binaries in this directory with
?C:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?C: or equivalent.
  See INSTALL for details.
?C:.
?C:PERL_VENDORBIN_EXP:
?C: This symbol contains the ~name expanded version of VENDORBIN, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#$d_vendorbin PERL_VENDORBIN "$vendorbin"  /**/
?H:#$d_vendorbin PERL_VENDORBIN_EXP "$vendorbinexp"  /**/
?H:.
?LINT:change prefixvar
?LINT:set installvendorbin
: Set the vendorbin variables
case "$vendorprefix" in
") d_vendorbin="$undef"
 vendorbin="
 vendorbinexp="
 ;;
*) d_vendorbin="$define"
 : determine where vendor-supplied executables go.
 case "$vendorbin" in
 ") dflt=$vendorprefix/bin ;;
 *) dflt="$vendorbin" ;;
 esac
 fn=d~+
 rp='Pathname for the vendor-supplied executables directory?'
 . ./getfile
 vendorbin="$ans"
 vendorbinexp="$ansexp"
 ;;
esac
prefixvar=vendorbin
. ./installprefix
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/vendorbin.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_PRId64 d_PRIi64 d_PRIu64 d_PRIo64 d_PRIx64 d_PRIXU64 \
 sPRId64 sPRIi64 sPRIu64 sPRIo64 sPRIx64 sPRIXU64: \
 quadtype i_inttypes test cat rm_try Setvar Compile run
?MAKE: -pick add $@ %<
?S:d_PRId64:
?S: This variable conditionally defines the PERL_PRId64 symbol, which
?S: indicates that stdio has a symbol to print 64-bit decimal numbers.
?S:.
?S:d_PRIi64:
?S: This variable conditionally defines the PERL_PRIi64 symbol, which
?S: indicates that stdio has a symbol to print 64-bit decimal numbers.
?S:.
?S:d_PRIu64:
?S: This variable conditionally defines the PERL_PRIu64 symbol, which
?S: indicates that stdio has a symbol to print 64-bit unsigned decimal
?S: numbers.
?S:.
?S:d_PRIo64:
?S: This variable
 conditionally defines the PERL_PRIo64 symbol, which
?S: indicates that stdio has a symbol to print 64-bit octal numbers.
?S:.
?S:d_PRIx64:
?S: This variable conditionally defines the PERL_PRIx64 symbol, which
?S: indicates that stdio has a symbol to print 64-bit hexadecimal numbers.
?S:.
?S:d_PRIXU64:
?S: This variable conditionally defines the PERL_PRIXU64 symbol, which
?S: indicates that stdio has a symbol to print 64-bit hExADECimAl numbers.
?S: The 'U' in the name is to separate this from d_PRIx64 so that even
?S: case-blind systems can see the difference.
?S:.
?S:sPRId64:
?S: This variable, if defined, contains the string used by stdio to
?S: format 64-bit decimal numbers (format 'd') for output.
?S:.
?S:sPRIi64:
?S: This variable, if defined, contains the string used by stdio to
?S: format 64-bit decimal numbers (format 'i') for output.
```

```
?S:.
?S:sPRIu64:
?S: This variable, if defined, contains the string used by stdio to
?S: format 64-bit unsigned decimal numbers (format 'u')
 for output.
?S:.
?S:sPRIo64:
?S: This variable, if defined, contains the string used by stdio to
?S: format 64-bit octal numbers (format 'o') for output.
?S:.
?S:sPRIx64:
?S: This variable, if defined, contains the string used by stdio to
?S: format 64-bit hexadecimal numbers (format 'x') for output.
?S:.
?S:sPRIXU64:
?S: This variable, if defined, contains the string used by stdio to
?S: format 64-bit hExADECimAl numbers (format 'X') for output.
?S: The 'U' in the name is to separate this from sPRIx64 so that even
?S: case-blind systems can see the difference.
?S:.
?C:PERL_PRId64:
?C: This symbol, if defined, contains the string used by stdio to
?C: format 64-bit decimal numbers (format 'd') for output.
?C:.
?C:PERL_PRIi64:
?C: This symbol, if defined, contains the string used by stdio to
?C: format 64-bit decimal numbers (format 'i') for output.
?C:.
?C:PERL_PRIu64:
?C: This symbol, if defined, contains the string used by stdio to
?C: format 64-bit unsigned decimal numbers (format 'u')
 for output.
?C:.
?C:PERL_PRIo64:
?C: This symbol, if defined, contains the string used by stdio to
?C: format 64-bit octal numbers (format 'o') for output.
?C:.
?C:PERL_PRIx64:
?C: This symbol, if defined, contains the string used by stdio to
?C: format 64-bit hexadecimal numbers (format 'x') for output.
?C:.
?C:PERL_PRIXU64:
?C: This symbol, if defined, contains the string used by stdio to
?C: format 64-bit hExADECimAl numbers (format 'X') for output.
?C:.
?H:#$d_PRId64 PERL_PRId64 $sPRId64 /**/
?H:#$d_PRIi64 PERL_PRIi64 $sPRIi64 /**/
?H:#$d_PRIu64 PERL_PRIu64 $sPRIu64 /**/
```

```
?H:#$d_PRIo64 PERL_PRIo64 $sPRIo64 /**/
?H:#$d_PRIx64 PERL_PRIx64 $sPRIx64 /**/
?H:#$d_PRIx64 PERL_PRIXU64 $sPRIXU64 /**/
?H:.
?T:yyy
?F:!try
: Check 64bit sizes
echo " "

if $test X"$quadtype" != X; then

echo "Checking how to print 64-bit integers..." >&4

if $test X"$sPRId64" = X -a X"$quadtype" = Xint; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
 int q = 12345678901;

 printf("%ld\n", q);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  12345678901)
   sPRId64='"d"'; sPRIi64='"i"'; sPRIu64='"u"';
   sPRIo64='"o"'; sPRIx64='"x"'; sPRIXU64='"X"';
   echo "We will use %d."
   ;;
  esac
 fi
fi

if $test X"$sPRId64" = X -a X"$quadtype" = Xlong; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
 long q = 12345678901;
 printf("%ld\n", q);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
```

```
  case "$yyy" in
  12345678901)
   sPRId64="'ld'"; sPRIi64="'li'"; sPRIu64="'lu'";
   sPRIo64="'lo'"; sPRIx64="'lx'"; sPRIXU64="'lX'";
   echo "We will use %ld."
   ;;
  esac
 fi
fi

if $test X"$sPRId64" = X -a X"$i_inttypes" = X"$define" -a X"$quadtype" = Xint64_t; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <inttypes.h>
#include <stdio.h>
int main() {
 int64_t q = 12345678901;
 printf("%" PRId64 "\n", q);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  12345678901)
   sPRId64=PRId64;
 sPRIi64=PRIi64; sPRIu64=PRIu64;
   sPRIo64=PRIo64; sPRIx64=PRIx64; sPRIXU64=PRIXU64;
   echo "We will use the C9X style."
   ;;
  esac
 fi
fi

if $test X"$sPRId64" = X -a X"$quadtype" != X; then
 $cat >try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
int main() {
 $quadtype q = 12345678901;
 printf("%Ld\n", q);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  12345678901)
```

```
   sPRId64="'Ld'"; sPRIi64="'Li'"; sPRIu64="'Lu'";
   sPRIo64="'Lo'"; sPRIx64="'Lx'"; sPRIXU64="'LX'";
   echo "We will use %Ld."
   ;;
  esac
 fi
fi

if $test X"$sPRId64" = X -a X"$quadtype" = X"long long"; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
 long long q = 12345678901LL; /* AIX cc requires the LL suffix. */
 printf("%lld\n", q);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  12345678901)
   sPRId64="'lld'"; sPRIi64="'lli'"; sPRIu64="'llu'";
   sPRIo64="'llo'"; sPRIx64="'llx'";
 sPRIXU64="'llX'";
   echo "We will use the %lld style."
   ;;
  esac
 fi
fi

if $test X"$sPRId64" = X -a X"$quadtype" != X; then
 $cat >try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
int main() {
 $quadtype q = 12345678901;
 printf("%qd\n", q);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  12345678901)
   sPRId64="'qd'"; sPRIi64="'qi'"; sPRIu64="'qu'";
   sPRIo64="'qo'"; sPRIx64="'qx'"; sPRIXU64="'qX'";
   echo "We will use %qd."
```

```
  ;;
  esac
 fi
fi

if $test X"$sPRId64" = X; then
 echo "Cannot figure out how to print 64-bit integers." >&4
fi
$rm_try

fi

case "$sPRId64" in
") d_PRId64="$undef"; d_PRIi64="$undef"; d_PRIu64="$undef";
 d_PRIo64="$undef"; d_PRIx64="$undef"; d_PRIXU64="$undef";
 ;;
*) d_PRId64="$define"; d_PRIi64="$define"; d_PRIu64="$define";
 d_PRIo64="$define"; d_PRIx64="$define"; d_PRIXU64="$define";
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/quadfio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: fpu.U,v 3.0 1993/08/18 12:08:10 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: fpu.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:10  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?LINT: empty
?X:?MAKE:fpu: test cat cc Myread
?X:?MAKE: -pick add $@ %<
?X:?S:fpu (fpunit):
?X:?S: Set to be the compile flag for the local floating point unit.
?X:?S:.
?X:?C:FPU (FPUNIT):
?X:?C: String containing the flags for the local floating point unit.
```

```
?X:?C:.
?X:?H:#define FPU "$fpu" /**/
?X:?H:.
?X:: see what floating point compile flags should be used.
?X:fpu="
?X:if
 $test -r /dev/fpa; then
?X: $cat>fpa.c << GOOP
?X: main(){return(1);}
?X:GOOP
?X: $cc -ffpa -o fpa fpa.c
?X: fpa > fpa.out 2>&1
?X: if $test ! -s fpa.out; then
?X:  dflt='y'
?X:  $cat <<'EOM'
?X:
?X:You seem to have a sun fpa...  I can compile the code to use the fpa but it will
?X:mean that the code can ONLY run on a machine with a fpa...
?X:
?X:EOM
?X:  rp="Should I compile for fpa?"
?X:  . ./myread
?X:  if $test $ans = "n"; then
?X:   fpu="
?X:  else
?X:   fpu='-ffpa'
?X:  fi
?X: else
?X:  $cat <<'EOM'
?X:
?X:You have the fpa device but I can't seem to use it.  Maybe you should talk to
?X:your sysadmin about this.  For now, I am not going to compile it in.
?X:
?X:EOM
?X: fi
?X:fi
?X:if $test "$fpu" = ''; then
?X: if $test -r /usr/etc/mc68881version; then
?X:  dflt='y'
?X:  $cat <<'EOM'
?X:
?X:There also seems to be the pieces for a 68881.  If I compile this in, it will
?X:work on almost all Sun 3's except for a few Sun-3/50s without a 68881...
?X:
?X:EOM
?X:  rp="Should
 I compile for a 68881?"
?X:  . ./myread
```

```
?X:  if $test $ans = "y"; then
?X:   fpu='-f68881'
?X:  fi
?X: fi
?X:fi
?X:
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/nullified/fpu.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: afs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: afs.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:23:06  ram
?RCS: patch61: can now explicitly tell Configure whether AFS is running
?RCS:
?RCS: Revision 3.0.1.1  1993/08/24  12:24:43  ram
?RCS: patch3: created
?RCS:
?MAKE:afs afsroot: test
?MAKE: -pick add $@ %<
?S:afs:
?S: This variable is set to 'true' if AFS (Andrew File System) is used
?S: on the system, 'false' otherwise.  It is possible to override this
?S: with a hint value or command line option,
 but you'd better know
?S: what you are doing.
?S:.
?S:afsroot:
?S: This variable is by default set to '/afs'. In the unlikely case
?S: this is not the correct root, it is possible to override this with
?S: a hint value or command line option.  This will be used in subsequent
?S: tests for AFSness in the configure and test process.
?S:.
: allow them to override the AFS root
case "$afsroot" in
") afsroot=/afs ;;
*) afsroot=$afsroot ;;
```

```
esac

: is AFS running?
echo " "
case "$afs" in
$define|true) afs=true ;;
$undef|false) afs=false ;;
*) if $test -d $afsroot; then
  afs=true
 else
  afs=false
 fi
 ;;
esac
if $afs; then
 echo "AFS may be running... I'll be extra cautious then..." >&4
else
 echo "AFS does not seem to be running..." >&4
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/afs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Thomas Neumann <tom@smart.bo.open.de>
?RCS:
?RCS: $Log: Findhdr.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  15:53:08  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:03:56  ram
?RCS: patch23: cppminus must be after other cppflags, not before
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
```

```
?X: This unit produces a findhdr script which is used to locate the header
?X: files
 in $usrinc or other stranger places using cpp capabilities. The
?X: script is given an include file base name, like 'stdio.h' or 'sys/file.h'
?X: and it returns the full path of the include file and a zero status or an
?X: empty string with an error status if the file could not be located.
?X:
?MAKE:Findhdr: grep test tr rm +usrinc awk cat startsh \
 cppstdin cppminus +cppflags eunicefix osname
?MAKE: -pick add $@ %<
?LINT:define fieldn
?S:fieldn:
?S: This variable is used internally by Configure. It contains the position
?S: of the included file name in cpp output. That is to say, when cpp
?S: pre-processes a #include <file> line, it replaces it by a # line which
?S: contains the original position in the input file and the full name of
?S: included file, between "quotes".
?S:.
?V:fieldn
?F:./findhdr !fieldn
?T:cline pos wanted name awkprg cppfilter testaccess status usrincdir
: determine filename position in cpp output
echo " "
echo "Computing filename position in cpp output for #include
 directives..." >&4
echo '#include <stdio.h>' > foo.c
case "$osname" in
vos)
 testaccess=-e
?X: VOS: path component separator is >
 cppfilter="tr '\\\\>' '/' |"
 ;;
*)
 testaccess=-r
 cppfilter="
 ;;
esac
$cat >fieldn <<EOF
$startsh
$cppstdin $cppflags $cppminus <foo.c 2>/dev/null | \
$grep '^[  ]*#.*stdio\.h' | \
while read cline; do
 pos=1
 set \$cline
 while $test \$# -gt 0; do
  if $test $testaccess \`echo \$1 | $tr -d ""\`; then
   echo "\$pos"
   exit 0
```

```
  fi
  shift
  pos=\`expr \$pos + 1\`
 done
done
EOF
chmod +x fieldn
fieldn=`./fieldn`
$rm -f foo.c fieldn
case $fieldn in
") pos='???';;
1) pos=first;;
2) pos=second;;
3) pos=third;;
*) pos="${fieldn}th";;
esac
echo "Your cpp writes the filename in the $pos field of the line."

?X: To locate a header file, we cannot simply check for $usrinc/file.h, since
?X: some machine have the headers in weird places and our only hope is that
?X: the C pre-processor will know how to find those headers. Thank you NexT!
: locate header file
$cat
 >findhdr <<EOF
$startsh
wanted=\$1
name=''
for usrincdir in $usrinc; do
 if test -f \$usrincdir/\$wanted; then
  echo "\$usrincdir/\$wanted"
  exit 0
 fi
done
awkprg='{ print \$$fieldn }'
echo "#include <\$wanted>" > foo\$\$.c
$cppstdin $cppminus $cppflags < foo\$\$.c 2>/dev/null | \
$cppfilter $grep "^[  ]*#.*\$wanted" | \
while read cline; do
 name=\`echo \$cline | $awk "\$awkprg" | $tr -d '"'\`
 case "\$name" in
 *[/\\\\]\$wanted) echo "\$name"; exit 1;;
 *[\\\\/]\$wanted) echo "\$name"; exit 1;;
 *) exit 2;;
 esac
done
?X: status = 0: grep returned 0 lines, case statement not executed
?X: status = 1: headerfile found
?X: status = 2: while loop executed, no headerfile found
```

```
status=\$?
$rm -f foo\$\$.c
if test \$status -eq 1; then
 exit 0
fi
exit 1
EOF
chmod +x findhdr
$eunicefix findhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Findhdr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysdir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysdir.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:22:30  ram
?RCS: patch32: fixed typo in I_SYS_DIR symbol name
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:30  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_sysdir: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysdir:
?S: This variable conditionally defines the I_SYS_DIR symbol, and indicates
?S: whether a C program should include <sys/dir.h>.
?S:.
?C:I_SYS_DIR (I_SYSDIR):
?C: This symbol, if
 defined, indicates to the C program that it should
?C: include <sys/dir.h>.
?C:.
?H:#$i_sysdir I_SYS_DIR  /**/
?H:.
?LINT:set i_sysdir
: see if this is an sysdir system
set sys/dir.h i_sysdir
```

```
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sysdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setlnbuf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_setlnbuf.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:11:57  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_setlinebuf: Inlibc
?MAKE: -pick add $@ %<
?S:d_setlinebuf:
?S: This variable conditionally defines the HAS_SETLINEBUF symbol, which
?S: indicates to the C program that the setlinebuf() routine is available
?S: to change stderr or stdout from block-buffered or unbuffered
 to a
?S: line-buffered mode.
?S:.
?C:HAS_SETLINEBUF :
?C: This symbol, if defined, indicates that the setlinebuf routine is
?C: available to change stderr or stdout from block-buffered or unbuffered
?C: to a line-buffered mode.
?C:.
?H:#$d_setlinebuf HAS_SETLINEBUF  /**/
?H:.
?LINT:set d_setlinebuf
: see if setlinebuf exists
set setlinebuf d_setlinebuf
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setlnbuf.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_localtime_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS: Copyright (c) 2006,2007 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_localtime_r d_localtime_r_needs_tzset localtime_r_proto: Inlibc \
 cat run Protochk Hasproto i_systypes usethreads i_time i_systime \
 rm_try Compile extern_C i_stdlib i_unistd i_malloc
?MAKE: -pick add $@ %<
?S:d_localtime_r:
?S: This variable conditionally defines the HAS_LOCALTIME_R symbol,
?S: which indicates to the C program that the localtime_r()
?S: routine is available.
?S:.
?S:d_localtime_r_needs_tzset:
?S: This variable conditionally defines the LOCALTIME_R_NEEDS_TZSET
?S: symbol, which makes us call tzset before localtime_r()
?S:.
?S:localtime_r_proto:
?S: This
 variable encodes the prototype of localtime_r.
?S: It is zero if d_localtime_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_localtime_r
?S: is defined.
?S:.
?C:HAS_LOCALTIME_R:
?C: This symbol, if defined, indicates that the localtime_r routine
?C: is available to localtime re-entrantly.
?C:.
?C:LOCALTIME_R_NEEDS_TZSET:
?C: Many libc's localtime_r implementations do not call tzset,
?C: making them differ from localtime(), and making timezone
?C: changes using \$ENV{TZ} without explicitly calling tzset
?C: impossible. This symbol makes us call tzset before localtime_r
?C:.
?H:?%<:#$d_localtime_r_needs_tzset LOCALTIME_R_NEEDS_TZSET /**/
?H:?%<:#ifdef LOCALTIME_R_NEEDS_TZSET
?H:?%<:#define L_R_TZSET tzset(),
?H:?%<:#else
?H:?%<:#define L_R_TZSET
?H:?%<:#endif
?H:.
```

```
?W:%<:L_R_TZSET
?C:L_R_TZSET:
?C: If localtime_r() needs tzset, it is defined in this define
?C:.
?C:LOCALTIME_R_PROTO:
?C: This symbol encodes the prototype of localtime_r.
?C: It is
 zero if d_localtime_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_localtime_r
?C: is defined.
?C:.
?H:#$d_localtime_r HAS_LOCALTIME_R /**/
?H:#define LOCALTIME_R_PROTO $localtime_r_proto /**/
?H:.
?T:try hdrs d_localtime_r_proto
?F:!try
: see if localtime_r exists
set localtime_r d_localtime_r
eval $inlibc
case "$d_localtime_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_time time.h $i_systime sys/time.h"
 case "$d_localtime_r_proto:$usethreads" in
 ":define") d_localtime_r_proto=define
  set d_localtime_r_proto localtime_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_localtime_r_proto" in
 define)
 case "$localtime_r_proto" in
 "|0) try='struct tm* localtime_r(const time_t*, struct tm*);'
 ./protochk "$extern_C $try" $hdrs && localtime_r_proto=S_TS ;;
 esac
 case "$localtime_r_proto" in
 "|0) try='int localtime_r(const time_t*, struct tm*);'
 ./protochk "$extern_C $try" $hdrs && localtime_r_proto=I_TS ;;
 esac
 case "$localtime_r_proto"
 in
 "|0) d_localtime_r=undef
  localtime_r_proto=0
  echo "Disabling localtime_r, cannot determine prototype." >&4 ;;
 * ) case "$localtime_r_proto" in
  REENTRANT_PROTO*) ;;
  *) localtime_r_proto="REENTRANT_PROTO_$localtime_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
```

```
 esac
 ;;
 *) case "$usethreads" in
  define) echo "localtime_r has no prototype, not using it." >&4 ;;
  esac
  d_localtime_r=undef
  localtime_r_proto=0
  ;;
 esac
 ;;
*) localtime_r_proto=0
 ;;
esac

: see if localtime_r calls tzset
case "$localtime_r_proto" in
REENTRANT_PROTO*)
 $cat >try.c <<EOCP
/*  Does our libc's localtime_r call tzset ?
*  return 0 if so, 1 otherwise.
*/
#$i_systypes I_SYS_TYPES
#$i_unistd I_UNISTD
#$i_time I_TIME
#$i_stdlib I_STDLIB
#$i_malloc I_MALLOC
#ifdef I_SYS_TYPES
#  include <sys/types.h>
#endif
#ifdef I_UNISTD
#  include <unistd.h>
#endif
#ifdef I_TIME
#  include <time.h>
#endif
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <string.h>
#ifdef I_MALLOC
#  include <malloc.h>
#endif
int
 main()
{
   int result = 0;
   time_t t = time(0L);
   char w_tz[]="TZ" "=GMT+5",
```

```
  e_tz[]="TZ" "=GMT-5",
 *tz_e = (char*)malloc(16),
 *tz_w = (char*)malloc(16);
   struct tm tm_e, tm_w;
   memset(&tm_e,'\0',sizeof(struct tm));
   memset(&tm_w,'\0',sizeof(struct tm));
   strcpy(tz_e,e_tz);
   strcpy(tz_w,w_tz);

   putenv(tz_e);
   localtime_r(&t, &tm_e);

   putenv(tz_w);
   localtime_r(&t, &tm_w);

   if( memcmp(&tm_e, &tm_w, sizeof(struct tm)) == 0 )
 result = 1;

   free(tz_e);free(tz_w);
   return result;
}
EOCP
 set try
 if eval $compile; then
     if $run ./try; then
  d_localtime_r_needs_tzset=undef;
     else
  d_localtime_r_needs_tzset=define;
     fi;
 else
     d_localtime_r_needs_tzset=undef;
 fi;
    ;;
 *)
    d_localtime_r_needs_tzset=undef;
    ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_localtime_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_eaccess: Inlibc
?MAKE: -pick add $@ %<
?S:d_eaccess:
?S: This variable conditionally defines the HAS_EACCESS symbol, which
?S: indicates to the C program that the eaccess() routine is available.
?S:.
?C:HAS_EACCESS :
?C: This symbol, if defined, indicates that the eaccess routine is
?C: available to do extended access checks.
?C:.
?H:#$d_eaccess HAS_EACCESS  /**/
?H:.
?LINT:set d_eaccess
: see if eaccess exists
set eaccess d_eaccess
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/acl/d_eaccess.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_bsdjmp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_bsdjmp.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:31:10  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:09:09  ram
?RCS: patch36: call ./usg explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_bsdjmp: Guess Setvar cat +cc libs rm
?MAKE: -pick add $@ %<
?S:d_bsdjmp:
```

```
?S: This variable conditionally defines USE_BSDJMP
 if BSD _setjmp and
?S: _longjmp routines are available to do non-local gotos without saving
?S: or restoring the signal mask flag.
?S:.
?C:USE_BSDJMP (BSDJMP):
?C: This symbol, if defined, indicates that the BSD _setjmp and _longjmp
?C: routines are available to do non-local gotos wihtout saving or restoring
?C: the signal mask flag.
?C:.
?H:#$d_bsdjmp USE_BSDJMP  /**/
?H:.
?F:!set
?LINT:set d_bsdjmp
: see if _setjmp and _longjmp exists
?X: We can't check for these symbols with Inlibc because of the leading "_"
echo " "
case "$d_bsdjmp" in
")
 $cat >set.c <<EOP
#include <setjmp.h>
jmp_buf env;
int set = 1;
int main()
{
 if (_setjmp(env))
  exit(set);
 set = 0;
 _longjmp(env, 1);
 exit(1);
}
EOP
 if $cc -o set set.c $libs >/dev/null 2>&1; then
  if ./set >/dev/null 2>&1; then
   echo "Good! You have BSD _setjmp and _longjmp routines." >&4
   val="$define"
  else
   $cat <<EOM
Uh-Oh! You have BSD _setjmp and _longjmp, but they do not work properly!!
EOM
   val="$undef"
  fi
 else
  if
 ./usg; then
   echo "You do not have _setjmp and _longjmp, but that's fine." >&4
  else
   cat <<EOM
```

```
It sounds strange for a BSD system to miss _setjmp and _longjmp, but that's ok.
EOM
  fi
  val="$undef"
 fi
 ;;
*) val="$d_bsdjmp"
 case "$d_bsdjmp" in
 $define) echo "Good! You have BSD _setjmp and _longjmp routines." >&4;;
 $undef) echo "You do not have _setjmp and _longjmp, but that's fine." >&4;;
 esac
 ;;
esac
set d_bsdjmp
eval $setvar
$rm -f set.c set
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_bsdjmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_statblks.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:29  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_statblks: contains Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_statblks:
?S: This variable conditionally defines USE_STAT_BLOCKS if this system
?S: has a stat structure declaring st_blksize and st_blocks.
?S:.
?C:USE_STAT_BLOCKS (STATBLOCKS):
?C: This symbol is defined if this system has a stat structure declaring
?C: st_blksize and st_blocks.
?C:.
?H:#$d_statblks USE_STAT_BLOCKS
```

```
  /**/
?H:.
?T:xxx
?LINT:set d_statblks
: see if stat knows about block sizes
echo " "
xxx=`./findhdr sys/stat.h`
if $contains 'st_blocks;' "$xxx" >/dev/null 2>&1 ; then
 if $contains 'st_blksize;' "$xxx" >/dev/null 2>&1 ; then
  echo "Your stat() knows about block sizes." >&4
  val="$define"
 else
  echo "Your stat() doesn't know about block sizes." >&4
  val="$undef"
 fi
else
 echo "Your stat() doesn't know about block sizes." >&4
 val="$undef"
fi
set d_statblks
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_statblks.U
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```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strlcpy: Inlibc Hasproto d_gnulibc
?MAKE: -pick add $@ %<
?S:d_strlcpy:
?S: This variable conditionally defines the HAS_STRLCPY symbol, which
?S: indicates to the C program that the strlcpy () routine is available.
?S:.
?C:HAS_STRLCPY:
?C: This symbol, if defined, indicates that the strlcpy () routine is
?C: available to do string copying.
?C:.
?H:#$d_strlcpy HAS_STRLCPY  /**/
?H:.
?T:d_strlcpy_proto xx1 xx2 xx3 xx4
?LINT:set d_strlcpy
```

```
: see if strlcpy exists
: We need both a prototype in string.h and the symbol in libc.
echo " "
d_strlcpy_proto="
xx1="#$d_gnulibc HAS_GNULIBC"
xx2='#if defined(HAS_GNULIBC) && !defined(_GNU_SOURCE)'
xx3='#   define _GNU_SOURCE'
xx4='#endif'
set d_strlcpy_proto strlcpy
 literal "$xx1" literal "$xx2" literal "$xx3" literal "$xx4" define string.h
eval $hasproto
case "$d_strlcpy_proto" in
   define) # see if strlcpy exists
 set strlcpy d_strlcpy
 eval $inlibc
 ;;
   *)  val=$undef
 set d_strlcpy
 eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strlcpy.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strftime: Inlibc
?MAKE: -pick add $@ %<
?S:d_strftime:
?S: This variable conditionally defines the HAS_STRFTIME symbol, which
?S: indicates to the C program that the strftime() routine is available.
?S:.
?C:HAS_STRFTIME:
?C: This symbol, if defined, indicates that the strftime routine is
?C: available to do time formatting.
?C:.
?H:#$d_strftime HAS_STRFTIME  /**/
?H:.
?LINT:set d_strftime
: see if strftime exists
```

```
set strftime d_strftime
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strftime.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_stdbool.U,v $
?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_stdbool: cat Compile rm_try Setvar
?MAKE: -pick add $@ %<
?S:i_stdbool:
?S: This variable conditionally defines the I_STDBOOL symbol, which
?S: indicates to the C program that <stdbool.h> exists and should
?S: be included.
?S:.
?C:I_STDBOOL:
?C: This symbol, if defined, indicates that <stdbool.h> exists and
?C: can be included.
?C:.
?H:#$i_stdbool I_STDBOOL  /**/
?H:.
?LINT:set i_stdbool
: see if stdbool is available
: we want a real compile instead of Inhdr because some Solaris systems
: have stdbool.h, but it can only be used if the compiler indicates it
: is sufficiently c99-compliant.
echo " "
$cat >try.c <<EOCP
#include <stdio.h>
#include <stdbool.h>
int func(bool x)
{
  return
 x ? 1 : 0;
}
int main(int argc, char **argv)
{
  return func(0);
}
EOCP
set try
```

```
if eval $compile; then
 echo "<stdbool.h> found." >&4
 val="$define"
else
 echo "<stdbool.h> NOT found." >&4
 val="$undef"
fi
$rm_try
set i_stdbool
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_stdbool.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_open3.U,v 3.0.1.2 1997/02/28 15:37:12 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_open3.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:37:12  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  13:58:26  ram
?RCS: patch56: added knowledge of the O_NONBLOCK symbol
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_open3: Compile test cat h_fcntl h_sysfile rm_try Setvar Findhdr run i_stdlib
?MAKE: -pick add $@ %<
?X: It would be easy to separate the
 h_O_stuff from this.
?X: Is there a reason to do so? -- HMS
?S:d_open3:
?S: This variable conditionally defines the HAS_OPEN3 manifest constant,
?S: which indicates to the C program that the 3 argument version of
?S: the open(2) function is available.
?S:.
?C:HAS_OPEN3 (OPEN3):
?C: This manifest constant lets the C program know that the three
```

```
?C: argument form of open(2) is available.
?C:.
?H:#$d_open3 HAS_OPEN3  /**/
?H:.
?W:%<:O_RDONLY O_WRONLY O_RDWR O_NDELAY O_APPEND O_SYNC O_CREAT O_TRUNC
?W:%<:O_EXCL O_NONBLOCK
?F:!try
?LINT:set d_open3
?LINT:change h_fcntl h_sysfile
: Locate the flags for 'open()'
echo " "
$cat >try.c <<EOCP
#include <sys/types.h>
#ifdef I_FCNTL
#include <fcntl.h>
#endif
#ifdef I_SYS_FILE
#include <sys/file.h>
#endif
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() {
 if(O_RDONLY);
#ifdef O_TRUNC
 exit(0);
#else
 exit(1);
#endif
}
EOCP
: check sys/file.h first to get FREAD on Sun
if $test `./findhdr sys/file.h` && \
  set try -DI_SYS_FILE
 && eval $compile; then
 h_sysfile=true;
 echo "<sys/file.h> defines the O_* constants..." >&4
 if $run ./try; then
  echo "and you have the 3 argument form of open()." >&4
  val="$define"
 else
  echo "but not the 3 argument form of open().  Oh, well." >&4
  val="$undef"
 fi
elif $test `./findhdr fcntl.h` && \
  set try -DI_FCNTL && eval $compile; then
 h_fcntl=true;
```

```
 echo "<fcntl.h> defines the O_* constants..." >&4
 if $run ./try; then
  echo "and you have the 3 argument form of open()." >&4
  val="$define"
 else
  echo "but not the 3 argument form of open().  Oh, well." >&4
  val="$undef"
 fi
else
 val="$undef"
 echo "I can't find the O_* constant definitions!  You got problems." >&4
fi
set d_open3
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_open3.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_mbtowc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_mbtowc.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:30  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_mbtowc: Inlibc
?MAKE: -pick add $@ %<
?S:d_mbtowc:
?S: This variable conditionally defines the HAS_MBTOWC symbol, which
?S: indicates to the C program that the mbtowc() routine is available
?S: to convert multibyte to a wide character.
?S:.
?C:HAS_MBTOWC (MBTOWC):
?C: This symbol, if defined, indicates that the mbtowc routine is available
?C: to
 convert a multibyte to a wide character.
?C:.
?H:#$d_mbtowc HAS_MBTOWC  /**/
```

```
?H:.
?LINT:set d_mbtowc
: see if mbtowc exists
set mbtowc d_mbtowc
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_mbtowc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: MailList.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: MailList.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:01:49  ram
?RCS: patch16: created
?RCS:
?RCS:
?X:
?X: This unit offers the user the option of subscribing to the mailing
?X: list. To force inclusion of this unit, you must add it's name to the
?X: dependancies on the MAKE line in your private copy of End.U.
?X: The address of the mailing list server must be set via a "list_request=..."
?X:
 entry in the .package file. This is usually done by running packinit and
?X: answering the proper questions.
?X:
?MAKE:MailList: cat mailer package Myread cf_name cf_email
?MAKE: -pick wipe $@ %<
?T:list_request list_sub list_unsub list_name
?X:
?X: The cf_name dependency is used through list_sub when the mailing list
?X: manager happens to be listserv, whereas cf_email is used whith majordomo
?X: or when the mailing list request address is scanned by a human. Since
?X: they do not appear within the unit itself, we need a lint hint.
?X:
?LINT:use cf_name cf_email
: offer to join the mailing list
```

```
list_request='<$list_request>'
list_sub="<$list_sub>"
list_unsub="<$list_unsub>"
list_name="<$list_name>"
$cat <<EOM

There is a mailing list for discussion about $package and related issues.
This is the preferred place to ask questions about the program and discuss
modifications and additions with the author and other users.  If you are able
to send mail to the Internet, you
 are encouraged to subscribe.  You need only
ever subscribe once, and you can unsubscribe automatically at any time in the
future.  If you have already subscribed and you wish to unsubscribe now, you
may do so by answering "unsubscribe".  Answer "subscribe" to subscribe to the
list.

EOM
rp="Subscribe to or unsubscribe from the $list_name mailing list?"
dflt=neither
. ./myread
case "$ans" in
[sS]*) $cat <<EOM

You will be sent a message from the list server to let you know when your
subscription has been successful and telling you how to submit articles and
how to unsubscribe again when necessary. You may also unsubscribe by running
this script again and asking it to do so for you.

EOM
 echo "Sending mail to subscribe you to the $list_name list..." >&4
 $mailer $list_request <<EOM >/dev/null 2>&1
Precedence: junk
To: $list_request

$list_sub
EOM
 ;;
[uU]*) echo "Sending mail to unsubscribe you from the $list_name list..." >&4
 $mailer $list_request <<EOM >/dev/null 2>&1
Precedence: junk
To:
 $list_request

$list_unsub
EOM
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/MailList.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getprotby.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getpbyname d_getpbynumber: Inlibc
?MAKE: -pick add $@ %<
?S:d_getpbyname:
?S: This variable conditionally defines the HAS_GETPROTOBYNAME
?S: symbol, which indicates to the C program that the
?S: getprotobyname() routine is available to look up protocols
?S: by their name.
?S:.
?S:d_getpbynumber:
?S: This variable conditionally defines the HAS_GETPROTOBYNUMBER
?S: symbol, which indicates to the C program that the
?S: getprotobynumber() routine is available to look up protocols
?S: by their number.
?S:.
?C:HAS_GETPROTOBYNAME:
?C: This symbol, if defined, indicates that the getprotobyname()
?C: routine is available to look up protocols by their name.
?C:.
?C:HAS_GETPROTOBYNUMBER:
?C: This
 symbol, if defined, indicates that the getprotobynumber()
?C: routine is available to look up protocols by their number.
?C:.
?H:#$d_getpbyname HAS_GETPROTOBYNAME  /**/
?H:#$d_getpbynumber HAS_GETPROTOBYNUMBER  /**/
?H:.
?LINT:set d_getpbyname d_getpbynumber
: Optional checks for getprotobyname and getprotobynumber

@if d_getpbyname || HAS_GETPROTOBYNAME
: see if getprotobyname exists
set getprotobyname d_getpbyname
eval $inlibc
@end

@if d_getpbynumber || HAS_GETPROTOBYNUMBER
```

```
: see if getprotobynumber exists
set getprotobynumber d_getpbynumber
eval $inlibc
@end
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_getprotby.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endsent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_endsent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_endsent: Inlibc
?MAKE: -pick add $@ %<
?S:d_endsent:
?S: This variable conditionally defines HAS_ENDSERVENT if endservent() is
?S: available to close whatever was being used for service queries.
?S:.
?C:HAS_ENDSERVENT:
?C: This symbol, if defined, indicates that the endservent() routine is
?C: available to close whatever was being used for
 service queries.
?C:.
?H:#$d_endsent HAS_ENDSERVENT  /**/
?H:.
?LINT:set d_endsent
: see if endservent exists
set endservent d_endsent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_endsent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_nearbyint: Inlibc
?MAKE: -pick add $@ %<
?S:d_nearbyint:
?S: This variable conditionally defines HAS_NEARBYINT if nearbyint()
?S: is available to return the integral value closest to (according to
?S: the current rounding mode) to x.
?S:.
?C:HAS_NEARBYINT:
?C: This symbol, if defined, indicates that the nearbyint routine is
?C: available to return the integral value closest to (according to
?C: the current rounding mode) to x.
?C:.
?H:#$d_nearbyint HAS_NEARBYINT  /**/
?H:.
?LINT:set d_nearbyint
: see if nearbyint exists
set nearbyint d_nearbyint
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_nearbyint.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Inhdr.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Inhdr.U,v $
?RCS: Revision 3.0.1.2  1995/05/12  12:01:31  ram
?RCS: patch54: deleted tabs that caused some /bin/sh to core dump (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:55:01  ram
?RCS: patch36: call ./whoa explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit checks wether a set of header files exists or not.
```

```
?X: If the first header is not
 found, the function tries to locate
?X: the next header, and so on, until one is found or there is no
?X: more header in the list.
?X:
?X: To use it, say:
?X: set header i_header [ header2 i_header2 ... ]
?X: eval $inhdr
?X:
?MAKE:Inhdr: test Findhdr Whoa
?MAKE: -pick add $@ %<
?LINT:define inhdr
?V:inhdr
?S:inhdr:
?S: This shell variable is used internally by Configure to check
?S: wether a set of headers exist or not. A typical use is:
?S:  set header i_header [ header2 i_header2 ... ]
?S:  eval $inhdr
?S: That will print a message, saying wether header was found or not
?S: and set i_header* accordingly. If the first header is not found,
?S: we try the next one, until the list is empty or one is found.
?S:.
?T:xxx xxf var td xxnf tu yyy instead was cont
: define an alternate in-header-list? function
inhdr='echo " "; td=$define; tu=$undef; yyy=$@;
cont=true; xxf="echo \"<\$1> found.\" >&4";
case $# in 2) xxnf="echo \"<\$1> NOT found.\" >&4";;
*) xxnf="echo \"<\$1> NOT found, ...\" >&4";;
esac;
case
 $# in 4) instead=instead;; *) instead="at last";; esac;
while $test "$cont"; do
 xxx=`./findhdr $1`
 var=$2; eval "was=\$$2";
 if $test "$xxx" && $test -r "$xxx";
 then eval $xxf;
?X: Next line shifted left 1 tabstop to avoid sh core dump on MachTen 2.1.1.
 eval "case \"\$$var\" in $undef) . ./whoa; esac"; eval "$var=\$td";
  cont="";
 else eval $xxnf;
?X: Likewise, the next line has been shifted left 1 tabstop -- ADO, 08/03/95
 eval "case \"\$$var\" in $define) . ./whoa; esac"; eval "$var=\$tu"; fi;
 set $yyy; shift; shift; yyy=$@;
 case $# in 0) cont="";;
 2) xxf="echo \"but I found <\$1> $instead.\" >&4";
  xxnf="echo \"and I did not find <\$1> either.\" >&4";;
 *) xxf="echo \"but I found <\$1\> instead.\" >&4";
  xxnf="echo \"there is no <\$1>, ...\" >&4";;
```

```
 esac;
done;
?X: Remaining values are set to 'undef'
while $test "$yyy";
do set $yyy; var=$2; eval "was=\$$2";
 eval "case \"\$$var\" in $define) . ./whoa; esac"; eval "$var=\$tu";
 set $yyy; shift; shift; yyy=$@;
done'
```

Found
 in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Inhdr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Cppsym.U,v 3.0.1.5 1995/05/12 11:59:11 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Cppsym.U,v $
?RCS: Revision 3.0.1.5  1995/05/12  11:59:11  ram
?RCS: patch54: split awk command onto two lines for older awk's (ADO)
?RCS:
?RCS: Revision 3.0.1.4  1995/01/11  14:55:57  ram
?RCS: patch45: new cc vs. cpp symbol checking suggested by JHI
?RCS: patch45: added more cpp symbols (JHI)
?RCS:
?RCS: Revision 3.0.1.3  1994/10/29  15:51:32  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: new symbols ardent and titan (ADO)
?RCS:
?RCS:
 Revision 3.0.1.2  1994/06/20  06:53:32  ram
?RCS: patch30: extended cpp symbol lookup list (JHI)
?RCS: patch30: renamed attrlist symbol into al for brevity
?RCS:
?RCS: Revision 3.0.1.1  1993/12/15  08:14:14  ram
?RCS: patch15: added new cpp symbols __bsdi__ and BSD_NET2
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?X: This unit produces a shell script called Cppsym, which can be used to
?X: determine whether any in a list of symbols is defined by the C compilation
?X: chain (C preprocessor symbols plus C compiler native ones).
?X: It can determine the status of any symbol, though the symbols in $al
?X: are more easily determined.  If you want to add to $al you can do
?X: it in Myinit.U.
?MAKE:Cppsym ccsymbols cppsymbols cppccsymbols: run \
 eunicefix Guess awk cat tr sed sort rm rm_try startsh osname \
 +cc +gccversion test comm uniq echo Options trnl \
 optimize ccflags ldflags libs cpp_stuff cpp
?MAKE: -pick add $@ %<
?T:also
 symbols i postprocess_cc_v tHdrH
?X:
?X: The symbol list is in alpha order for ease of maintenance...
?X:
?X: Lots of new symbols (mostly rummaged from gcc), courtesy of
?X: Jarkko Hietaniemi <jhi@snakemail.hut.fi> -- RAM, 06/06/94
?X:
?S:ccsymbols:
?S: The variable contains the symbols defined by the C compiler alone.
?S: The symbols defined by cpp or by cc when it calls cpp are not in
?S: this list, see cppsymbols and cppccsymbols.
?S: The list is a space-separated list of symbol=value tokens.
?S:.
?S:cppsymbols:
?S: The variable contains the symbols defined by the C preprocessor
?S: alone.  The symbols defined by cc or by cc when it calls cpp are
?S: not in this list, see ccsymbols and cppccsymbols.
?S: The list is a space-separated list of symbol=value tokens.
?S:.
?S:cppccsymbols:
?S: The variable contains the symbols defined by the C compiler
?S: when it calls cpp.  The symbols defined by the cc alone or cpp
?S: alone are not in this list, see ccsymbols and cppsymbols.
?S: The
 list is a space-separated list of symbol=value tokens.
?S:.
?F:./Cppsym
?F:./Cppsym.know
?F:!Cppsym.true
?F:!ccsym.com
?F:!ccsym.cpp
?F:!ccsym.own
?X: fake LINT hints
?LINT:change ccflags
?LINT:extern s
?LINT:extern s__
```

```
: Preprocessor symbols
echo " "
$echo "Guessing which symbols your C compiler and preprocessor define..." >&4
?X: If your symbol is mixed case, just add it as-is.
?X: All symbols will be transformed to both all-lower and all-upper.
?X: Also drop any leading/trailing underscores, the scan will try all those.
$cat <<'EOSH' > Cppsym.know
a29k aarch64 ABI64 aegis AES_SOURCE AIX AIX32 AIX370 AIX41 AIX42
AIX43 aixpc AIX_SOURCE alliant ALL_SOURCE alpha AM29000 am29000
AMD64 amd64 amiga AMIGAOS AMIX ansi ANSI_C_SOURCE apollo arch_ppc
arch_pwr ardent ARM ARM32 atarist att386 att3b
BeOS BIG_ENDIAN BIT_MSF BSD bsd bsd43 bsd4_2 BSD4_3 bsd4_3 bsd4_4
BSDCOMPAT bsdi BSD_4_3 BSD_4_4 BSD_NET2 BSD_TIME BSD_TYPES bull
byteorder byte_order
c cadmus clang clipper CMU COFF COMPILER_VERSION
 concurrent
convex cpu CRAY cray CRAYMPP ctix CX_UX CYGWIN
DECC DGUX DGUX_SOURCE DJGPP dmert DOLPHIN DPX2 DSO Dynix DynixPTX
ELF encore EPI EXTENSIONS
FAVOR_BSD FILE_OFFSET_BITS FORTIFY_SOURCE FreeBSD
GCC_NEW_VARARGS gcos gcx gimpel GLIBC GLIBC_MINOR GNUC GNUC_MINOR
GNU_LIBRARY GNU_SOURCE GO32 gould GOULD_PN
H3050R H3050RX hbullx20 hcx host_mips hp200 hp300 HP700 hp700
hp800 hp9000 hp9000s200 hp9000s300 hp9000s400
hp9000s700 hp9000s800 hp9k8 hppa hpux HPUX_SOURCE hp_osf
i186 i286 i386 i486 i586 i686 i8086 i80960 i860 I960 IA32 IA64
iAPX286 ibm ibm032 ibmesa IBMR2 ibmrt ILP32 ILP64
INLINE_INTRINSICS INT64 INTEL interdata INTRINSICS is68k itanium
ksr1
LANGUAGE_C LARGEFILE64_SOURCE LARGEFILE_SOURCE LARGE_FILE_API
LFS64_LARGEFILE LFS_LARGEFILE LIBCATAMOUNT Linux LITTLE_ENDIAN
LONG64 LONGDOUBLE LONGLONG LONG_DOUBLE LONG_LONG LP64 luna
luna88k Lynx
M68000 m68k m88100 m88k M88KBCS_TARGET MACH machine MachTen
MATH_HAS_NO_SIDE_EFFECTS mc300 mc500 mc68000 mc68010 mc68020
mc68030 mc68040 mc68060
 mc68k mc68k32 mc700 mc88000 mc88100
merlin mert MiNT mips MIPSEB MIPSEL MIPS_FPSET MIPS_ISA MIPS_SIM
MIPS_SZINT MIPS_SZLONG MIPS_SZPTR MODERN_C motorola MSDOS
MTXINU MULTIMAX MVS mvs M_AMD64 M_ARM M_ARMT M_COFF M_I186 M_I286
M_I386 M_I8086 M_I86 M_I86SM M_IA64 M_IX86 M_PPC M_SYS3 M_SYS5
M_SYSIII M_SYSV M_UNIX M_X86 M_XENIX
n16 ncl_el ncl_mr NetBSD news1500 news1700 news1800 news1900
news3700 news700 news800 news900 NeXT NLS nonstopux ns16000
ns32000 ns32016 ns32332 ns32k nsc32000
OCS88 OEMVS OpenBSD os OS2 OS390 osf OSF1 OSF_SOURCE
PARAGON parisc pa_risc PA_RISC1_1 PA_RISC2_0 pc532 pdp11 PGC PIC
plexus PORTAR posix POSIX1B_SOURCE POSIX2_SOURCE POSIX4_SOURCE
```

```
POSIX_C_SOURCE POSIX_SOURCE POWER powerpc ppc PROTOTYPES PWB pyr
QK_USER QNX
R3000 REENTRANT RES Rhapsody RISC6000 riscix riscos RT
S390 S390x SA110 SCO scs sequent sgi SGI_SOURCE SH SH3 sinix
SIZE_INT SIZE_LONG SIZE_PTR SOCKETS_SOURCE SOCKET_SOURCE sony
sonyrisc sony_news sparc sparclite sparcv8 sparcv9 spectrum
stardent stdc
 STDC_EXT stratos sun sun3 sun386 Sun386i svr3 svr4
SVR4_2 SVR4_SOURCE svr5 SX system SYSTYPE_BSD SYSTYPE_BSD43
SYSTYPE_BSD44 SYSTYPE_SVR4 SYSTYPE_SVR5 SYSTYPE_SYSV SYSV SYSV3
SYSV4 SYSV5 sysV68 sysV88
Tek4132 Tek4300 thumb thw_370 thw_intel thw_rs6000 titan TM3200
TM5400 TM5600 tower tower32 tower32_200 tower32_600 tower32_700
tower32_800 tower32_850 tss
u370 u3b u3b2 u3b20 u3b200 u3b20d u3b5 ultrix UMAXV UnicomPBB
UnicomPBD UNICOS UNICOSMK unix UNIX95 UNIX99 unixpc unos USE_BSD
USE_FILE_OFFSET64 USE_GNU USE_ISOC9X USE_LARGEFILE
USE_LARGEFILE64 USE_MISC USE_POSIX USE_POSIX199309
USE_POSIX199506 USE_POSIX2 USE_REENTRANT USE_SVID USE_UNIX98
USE_XOPEN USE_XOPEN_EXTENDED USGr4 USGr4_2 UTek Utek UTS UWIN
uxpm uxps
vax venix VMESA vms
x86_64 xenix Xenix286 XOPEN_SOURCE XOPEN_SOURCE_EXTENDED XPG2
XPG2_EXTENDED XPG3 XPG3_EXTENDED XPG4 XPG4_EXTENDED
z8000 zarch
EOSH
# Maybe put other stuff here too.
?X:Some OS's will have a dash in their $osname
?X:e.g. Android is known as linux-android
?X:The
 preprocessor will interpret the dash as a minus
./tr '-' '_' <<EOSH >>Cppsym.know
$osname
EOSH
./tr '[a-z]' '[A-Z]' < Cppsym.know > Cppsym.a
./tr '[A-Z]' '[a-z]' < Cppsym.know > Cppsym.b
$cat Cppsym.know > Cppsym.c
$cat Cppsym.a Cppsym.b Cppsym.c | $tr ' ' $trnl | $sort | $uniq > Cppsym.know
$rm -f Cppsym.a Cppsym.b Cppsym.c
cat <<EOSH > Cppsym
$startsh
if $test \$# -gt 0; then
   echo \$* | $tr " " "$trnl" | ./Cppsym.try > Cppsym.got
   if $test -s Cppsym.got; then
 $rm -f Cppsym.got
 exit 0
   fi
   $rm -f Cppsym.got
```

```
  exit 1
else
  $tr " " "$trnl" | ./Cppsym.try
  exit 0
fi
EOSH
chmod +x Cppsym
$eunicefix Cppsym
?X: The below awk script will die a horrible death if
?X: some of the tested symbols are not long ints.
?X: Also, we do not make difference between just defined and defined zero.
cat <<EOSH > Cppsym.try
$startsh
cat <<'EOCP' > try.c
#include <stdio.h>
#if cpp_stuff == 1
#define STRINGIFY(a)    "a"
#endif
#if cpp_stuff == 42
#define StGiFy(a)  #a
#define STRINGIFY(a)
   StGiFy(a)
#endif
#if $cpp_stuff != 1 && $cpp_stuff != 42
#   include "Bletch: How does this C preprocessor stringify macros?"
#endif
int main() {
EOCP
?X: The length($1) command guards against possible empty entries.
?X: The awk snippet is know to give heartburn to UNICOS/mk awk.
$awk \\
EOSH
cat <<'EOSH' >> Cppsym.try
'length($1) > 0 {
  printf "#ifdef %s\nprintf(\"%s=%%s\\n\", STRINGIFY(%s));\n#endif\n", $1, $1, $1
  printf "#ifdef _%s\nprintf(\"_%s=%%s\\n\", STRINGIFY(_%s));\n#endif\n", $1, $1, $1
  printf "#ifdef __%s\nprintf(\"__%s=%%s\\n\", STRINGIFY(__%s));\n#endif\n", $1, $1, $1
  printf "#ifdef __%s__\nprintf(\"__%s__=%%s\\n\", STRINGIFY(__%s__));\n#endif\n", $1, $1, $1
}' >> try.c
echo 'return 0;}' >> try.c
EOSH
cat <<EOSH >> Cppsym.try
ccflags="$ccflags"
case "$osname-$gccversion" in
irix-) ccflags="\$ccflags -woff 1178" ;;
os2-*) ccflags="\$ccflags -Zlinker /PM:VIO" ;;
esac
$cc -o try -Dcpp_stuff=$cpp_stuff $optimize \$ccflags $ldflags try.c $libs 2>/dev/null
```

```
 && $run ./try | $sed 's/ /\\\\ /g'
EOSH
chmod +x Cppsym.try
$eunicefix Cppsym.try
./Cppsym < Cppsym.know | $sort | $uniq > Cppsym.true
: Add in any Linux cpp "predefined macros":
case "$osname::$gccversion" in
 *linux*::*.*|*gnukfreebsd*::*.*|gnu::*.*)
   tHdrH=_tmpHdr
   rm -f $tHdrH'.h' $tHdrH
   touch $tHdrH'.h'
   # Filter out macro arguments, such as Linux's __INT8_C(c)
   if $cpp -dM $tHdrH'.h' > $tHdrH'_cppsym.h' && [ -s $tHdrH'_cppsym.h' ]; then
      sed -e 's/#define[\ \  ]*//;s/[\ \     ].*$//' -e 's/(.*//' <$tHdrH'_cppsym.h' >$tHdrH'_cppsym.real'
      if [ -s $tHdrH'_cppsym.real' ]; then
   cat $tHdrH'_cppsym.real' Cppsym.know | sort | uniq | ./Cppsym | sort | uniq > Cppsym.true
      fi
   fi
   rm -f $tHdrH'.h' $tHdrH'_cppsym.h' $tHdrH'_cppsym.real'
 ;;
esac
: now check the C compiler for additional symbols
?X: suggested by Jarkko Hietaniemi <jhi@snakemail.hut.fi>, thanks!
postprocess_cc_v="
case "$osname" in
aix) postprocess_cc_v="|$tr , ' '" ;;
esac
$cat >ccsym
 <<EOS
$startsh
$cat >tmp.c <<EOF
extern int foo;
EOF
for i in \`$cc -v -c tmp.c 2>&1 $postprocess_cc_v\`
do
 case "\$i" in
 -D*) echo "\$i" | $sed 's/^-D//';;
 -A*) $test "$gccversion" && echo "\$i" | $sed 's/^-A//' | $sed 's/\(.*\)(\(.*\))/\1=\2/';;
 esac
done
$rm_try
EOS
postprocess_cc_v="
chmod +x ccsym
$eunicefix ccsym
./ccsym > ccsym1.raw
?X: AIX complains if $uniq is passed an empty file.  ($sort apparently
?X: doesn't care.)  --AD  14 July 1998
```

```
if $test -s ccsym1.raw; then
   $sort ccsym1.raw | $uniq >ccsym.raw
else
   mv ccsym1.raw ccsym.raw
fi

?X: canonicalize symbols for easier sort/uniq/comm usage: append =1 if no = sign
?X: the awk script must be on two lines for older awk programs, sigh! -- ADO
$awk '/\=/ { print $0; next }
 { print $0"=1" }' ccsym.raw >ccsym.list
$comm -13 Cppsym.true ccsym.list >ccsym.own
$comm -12 Cppsym.true ccsym.list >ccsym.com
$comm -23 Cppsym.true ccsym.list >ccsym.cpp
also=''
if $test -z ccsym.raw; then
 echo "Your C compiler doesn't seem
 to define any symbols!" >&4
 echo " "
 echo "However, your C preprocessor defines the following symbols:"
 $cat Cppsym.true
 ccsymbols=''
 cppsymbols=`$cat Cppsym.true`
 cppsymbols=`echo $cppsymbols`
 cppccsymbols="$cppsymbols"
else
 if $test -s ccsym.com; then
  echo "Your C compiler and pre-processor define these symbols:"
  $sed -e 's/\(..*\)=.*/\1/' ccsym.com
  also='also '
  symbols='ones'
  cppccsymbols=`$cat ccsym.com`
  cppccsymbols=`echo $cppccsymbols`
  $test "$silent" || sleep 1
 fi
 if $test -s ccsym.cpp; then
  $test "$also" && echo " "
  echo "Your C pre-processor ${also}defines the following symbols:"
  $sed -e 's/\(..*\)=.*/\1/' ccsym.cpp
  also='further '
  cppsymbols=`$cat ccsym.cpp`
  cppsymbols=`echo $cppsymbols`
  $test "$silent" || sleep 1
 fi
 if $test -s ccsym.own; then
  $test "$also" && echo " "
  echo "Your C compiler ${also}defines the following cpp symbols:"
  $sed -e 's/\(..*\)=1/\1/' ccsym.own
  $sed -e 's/\(..*\)=.*/\1/' ccsym.own | $uniq >>Cppsym.true
```

```
  ccsymbols=`$cat
 ccsym.own`
  ccsymbols=`echo $ccsymbols`
  $test "$silent" || sleep 1
 fi
fi

: add -D_FORTIFY_SOURCE if feasible and not already there
case "$gccversion" in
[456789].*|[1-9][0-9]*) case "$optimize$ccflags" in
 *-O*) case "$ccflags$cppsymbols" in
  *_FORTIFY_SOURCE=*) # Don't add it again.
   echo "You seem to have -D_FORTIFY_SOURCE already, not adding it." >&4
   ;;
  *) echo "Adding -D_FORTIFY_SOURCE=2 to ccflags..." >&4
   ccflags="$ccflags -D_FORTIFY_SOURCE=2"
   ;;
  esac
  ;;
 *) echo "You have gcc 4.* or later but not optimizing, not adding -D_FORTIFY_SOURCE." >&4
  ;;
 esac
 ;;
*) echo "You seem not to have gcc 4.* or later, not adding -D_FORTIFY_SOURCE." >&4
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Cppsym.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_flexfnam.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_flexfnam: cat rm test Setvar
?MAKE: -pick add $@ %<
```

```
?S:d_flexfnam:
?S: This variable conditionally defines the FLEXFILENAMES symbol, which
?S: indicates that the system supports filenames longer than 14 characters.
?S:.
?C:FLEXFILENAMES:
?C: This symbol, if defined, indicates that the system supports filenames
?C: longer than 14 characters.
?C:.
?H:#$d_flexfnam FLEXFILENAMES  /**/
?H:.
?T:first
 second
?LINT:set d_flexfnam
: see if we can have long filenames
echo " "
?X:
?X: We have to test in both /tmp and . because of NFS (remote server may allow
?X: long filenames while the local filesystem cannot support them). If at least
?X: one of those file systems cannot support long filenames, then we assume the
?X: whole system can't.
?X:
rmlist="$rmlist /tmp/cf$$"
$test -d /tmp/cf$$ || mkdir /tmp/cf$$
first=123456789abcdef
second=/tmp/cf$$/$first
$rm -f $first $second
if (echo hi >$first) 2>/dev/null; then
 if $test -f 123456789abcde; then
  echo 'You cannot have filenames longer than 14 characters.  Sigh.' >&4
  val="$undef"
 else
  if (echo hi >$second) 2>/dev/null; then
   if $test -f /tmp/cf$$/123456789abcde; then
    $cat <<'EOM'
That's peculiar... You can have filenames longer than 14 characters, but only
on some of the filesystems.  Maybe you are using NFS.  Anyway, to avoid problems
I shall consider your system cannot support long filenames at all.
EOM
    val="$undef"
   else
    echo
 'You can have filenames longer than 14 characters.' >&4
    val="$define"
   fi
  else
   $cat <<'EOM'
How confusing! Some of your filesystems are sane enough to allow filenames
longer than 14 characters but some others like /tmp can't even think about them.
```

```
So, for now on, I shall assume your kernel does not allow them at all.
EOM
   val="$undef"
  fi
 fi
else
 $cat <<'EOM'
You can't have filenames longer than 14 chars.  You can't even think about them!
EOM
 val="$undef"
fi
set d_flexfnam
eval $setvar
$rm -rf /tmp/cf$$ 123456789abcde*
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_flexfnam.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setprior.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setprior.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:11  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setprior: Inlibc
?MAKE: -pick add $@ %<
?S:d_setprior:
?S: This variable conditionally defines HAS_SETPRIORITY if setpriority()
?S: is available to set a process's priority.
?S:.
?C:HAS_SETPRIORITY (SETPRIORITY):
?C: This symbol, if defined, indicates that the setpriority routine is
?C: available to set a process's priority.
?C:.
?H:#$d_setprior
 HAS_SETPRIORITY  /**/
?H:.
?LINT:set d_setprior
```

```
: see if setpriority exists
set setpriority d_setprior
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setprior.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: man3dir.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:10:34  ram
?RCS: patch61: created
?RCS:
?X:
?X: This was originally specific to perl5.  Since perl5 has man pages that
?X: go in both man1/ and man3/ directories, we need both man1dir
?X: and man3dir.  This unit is basically dist's mansrc.U with
?X: man3 used instead of man everywhere.
?X: I then added various tests because perl5 has *lots* of man3
?X: pages with long file names. -- ADO
?X:
?MAKE:man3dir
 man3direxp man3ext installman3dir: afs cat nroff Loc Oldconfig \
 sed man1dir spackage package Getfile prefix Prefixit Prefixup \
 d_flexfnam privlib Myread
?MAKE: -pick add $@ %<
?Y:TOP
?S:man3dir:
?S: This variable contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?S:man3direxp:
?S: This variable is the same as the man3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
```

```
?S:installman3dir:
?S: This variable is really the same as man3direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man3direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:man3ext:
?S: This variable contains the extension that the manual
 page should
?S: have: one of 'n', 'l', or '3'.  The Makefile must supply the '.'.
?S: See man3dir.
?S:.
: determine where library module manual pages go
set man3dir man3dir none
eval $prefixit
$cat <<EOM

$spackage has manual pages for many of the library modules.
EOM

case "$nroff" in
nroff)
 $cat <<'EOM'
However, you don't have nroff, so they're probably useless to you.
EOM
 case "$man3dir" in
 ") man3dir="none";;
 esac;;
esac

case "$d_flexfnam" in
undef)
 $cat <<'EOM'
However, your system can't handle the long file names like File::Basename.3.
EOM
 case "$man3dir" in
 ") man3dir="none";;
 esac;;
esac

echo "If you don't want the manual sources installed, answer 'none'."
?X: We dont use /usr/local/man/man3 because some man programs will
?X: only show the /usr/local/man/man3 contents, and not the system ones,
?X: thus man less will show the perl module less.pm, but not the system
?X: less command.  We might also conflict with TCL man pages.
?X: However, something like /opt/perl/man/man3
 is fine.
case "$man3dir" in
```

```
") case "$prefix" in
 *$package*) dflt=`echo $man1dir |
   $sed -e 's/man1/man3/g' -e 's/man\.1/man\.3/g'` ;;
 *) dflt="$privlib/man/man3" ;;
 esac
 ;;
' ') dflt=none;;
*) dflt="$man3dir" ;;
esac
echo " "

fn=dn+~
rp="Where do the $package library man pages (source) go?"
. ./getfile
if test "X$man3direxp" != "X$ansexp"; then
 installman3dir="
fi

man3dir="$ans"
man3direxp="$ansexp"
case "$man3dir" in
") man3dir=' '
 installman3dir=";;
esac
if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
manual pages reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installman3dir" in
 ") dflt=`echo $man3direxp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installman3dir";;
 esac
 fn=de~
 rp='Where will man pages be installed?'
 . ./getfile
 installman3dir="$ans"
else
 installman3dir="$man3direxp"
fi

: What suffix
 to use on installed man pages

case "$man3dir" in
```

```
' ')
 man3ext='0'
 ;;
*)
 rp="What suffix should be used for the $package library man pages?"
 case "$man3ext" in
 ") case "$man3dir" in
  *3)  dflt=3 ;;
  *3p) dflt=3p ;;
  *3pm) dflt=3pm ;;
  *l) dflt=l;;
  *n) dflt=n;;
  *o) dflt=o;;
  *p) dflt=p;;
  *C) dflt=C;;
  *L) dflt=L;;
  *L3) dflt=L3;;
  *) dflt=3;;
  esac
  ;;
 *) dflt="$man3ext";;
 esac
 . ./myread
 man3ext="$ans"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/man3dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libs.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  16:09:11  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.5  1995/07/25  14:12:05  ram
?RCS: patch56: now knows about OS/2 platforms
```

```
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  16:24:22  ram
?RCS: patch36: removed old broken thislib/thatlib processing (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:05:44  ram
?RCS: patch30: code cleanup with if/elif by ADO and RAM
?RCS: patch30: undone patch23 for libswanted default
 setting
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:08:45  ram
?RCS: patch23: now includes ordered default libswanted variable (ADO)
?RCS: patch23: major cleanup for library lookups (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:02:31  ram
?RCS: patch6: added default for libs
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libs libsfound libsfiles libsdirs libspath libscheck: \
 test cat Myread Oldconfig Loc libpth package xlibpth so _a \
 +usesocks sed +cc +ccflags +ldflags rm
?MAKE: -pick add $@ %<
?S:libs:
?S: This variable holds the additional libraries we want to use.
?S: It is up to the Makefile to deal with it.  The list can be empty.
?S:.
?S:libsfound:
?S: This variable holds the full pathnames of the libraries
?S: we found and accepted.
?S:.
?S:libsfiles:
?S: This variable holds the filenames aka basenames of the libraries
?S: we found and accepted.
?S:.
?S:libsdirs:
?S: This variable holds the directory
 names aka dirnames of the libraries
?S: we found and accepted, duplicates are removed.
?S:.
?S:libspath:
?S: This variable holds the directory names probed for libraries.
?S:.
?S:libscheck:
?S: This variable is intended to be set by hint files, if needed.
?S: It should contain shell code that will be eval'ed with $xxx holding
?S: some library file.  It may change $xxx if needed.
?S: For instance, on an Irix platform, you may make sure the right
```

```
?S: library file is used depending on the cc command line, so that the
?S: correct library is used depending on the selected ABI (for 32 and
?S: 64-bit compilations).
?S:
?S: Here is an example of code that could be found in a hint file on Irix
?S: when the selected compiler was for 32-bit -- that code is put in the
?S: cc.cbu call-back unit to be invoked AFTER the C compiler and its
?S: flags have been chosen:
?S:
?S:  libscheck='case "$xxx" in
?S:  *.a) /bin/ar p $xxx `/bin/ar t $xxx | sed q` >$$.o;
?S:   case "`/usr/bin/file $$.o`" in
?S:   *N32*)
 rm -f $$.o ;;
?S:   *) rm -f $$.o; xxx=/no/n32$xxx ;;
?S:   esac ;;
?S:  *) case "`/usr/bin/file $xxx`" in
?S:   *N32*) ;;
?S:   *) xxx=/no/n32$xxx ;;
?S:   esac ;;
?S:  esac'
?S:.
?D:libs="
?LINT:extern libswanted
?LINT:change libswanted
?INIT:: default library list
?INIT:libswanted="
?X: This order is chosen so that libraries  -lndir, -ldir, -lucb, -lbsd,
?X: -lBSD, -lPW, and -lx only get used if there are unresolved
?X: routines at link time.  Usually, these are backwards compatability
?X: libraries, and may not be as reliable as the standard c library.
?X:
?X: The -lsocket -linet -lnsl order has been reported to be necessary
?X: for at least one SVR4 implementation.
?X: -lc must proceed -lucb or -lbsd for most Solaris applications.
?X: -lc_s proceeds -lc so we pick up the shared library version, if
?X: it is available.
?X:
?X: The ordering of c, posix, and cposix is a guess and almost
?X: certainly wrong on about half of all systems.
?X:
?X: Set proper libswanted in your private
 Myinit.U if needed.
?X:
?X:: default ordered library list
?X:libswanted='net socket inet bind nsl nm sdbm gdbm ndbm dbm malloc dl'
?X:libswanted="$libswanted dld sun m c_s c posix cposix ndir dir ucb"
?X:libswanted="$libswanted bsd BSD PW x"
```

```
?X:
?INIT:: should be set by hint files if needed
?INIT:libscheck="
?T:xxx yyy thislib thisdir libstyle linkmsg
?F:lt.c lt
: Looking for optional libraries
echo " "
echo "Checking for optional libraries..." >&4
case "$libs" in
' '|'') dflt='';;
*) dflt="$libs";;
esac
case "$libswanted" in
'') libswanted='c_s';;
esac
?X: libsocks has nasty naming scheme.
?X: This does not work if somebody wants SOCKS 4.
case "$usesocks" in
"$define") libswanted="$libswanted socks5 socks5_sh" ;;
esac
?X: Used later for link checks
echo "extern char printf(); int main() { printf(); return 0; }" > lt.c
libsfound="
libsfiles="
libsdirs="
libspath="
for thisdir in $libpth $xlibpth; do
 test -d $thisdir && libspath="$libspath $thisdir"
done
for thislib in $libswanted;
 do
 for thisdir in $libspath; do
    xxx=''
    if $test ! -f "$xxx" ; then
   xxx=`ls $thisdir/lib$thislib.$so.[0-9]* 2>/dev/null | $sed -n '1p'`
   $test -f "$xxx" && eval $libscheck
   $test -f "$xxx" && libstyle=shared
    fi
    if test ! -f "$xxx"; then
   xxx=$thisdir/lib$thislib.$so
   $test -f "$xxx" && eval $libscheck
   $test -f "$xxx" && libstyle=shared
    fi
    if test ! -f "$xxx"; then
   xxx=$thisdir/lib$thislib$_a
        $test -f "$xxx" && eval $libscheck
   $test -f "$xxx" && libstyle=static
    fi
```

```
    if test ! -f "$xxx"; then
   xxx=$thisdir/$thislib$_a
        $test -f "$xxx" && eval $libscheck
   $test -f "$xxx" && libstyle=static
    fi
    if test ! -f "$xxx"; then
   xxx=$thisdir/lib${thislib}_s$_a
        $test -f "$xxx" && eval $libscheck
   $test -f "$xxx" && libstyle=static
   $test -f "$xxx" && thislib=${thislib}_s
    fi
    if test ! -f "$xxx"; then
   xxx=$thisdir/Slib$thislib$_a
        $test -f "$xxx" && eval $libscheck
   $test
 -f "$xxx" && libstyle=static
    fi
    if $test -f "$xxx"; then
?X:
?X: It is not sufficient to find a .so on the disk.  We must make sure
?X: that we can indeed supply the -lfoo line on the cc line to link against
?X: that library.  On Linux for instance, a versionned .so will not be
?X: implicitly linked against, whereas it will work fine on Solaris 2.6.
?X:  --RAM, 10/10/2003
?X:
   if $cc -o lt $ccflags $ldflags lt.c -l$thislib >/dev/null 2>&1;
   then
    linkmsg=""
   else
    linkmsg=" but I can't link against it"
   fi
   case "$libstyle" in
   shared) echo "Found -l$thislib (shared)$linkmsg." ;;
   static) echo "Found -l$thislib$linkmsg." ;;
   *)      echo "Found -l$thislib ($libstyle)$linkmsg." ;;
   esac
   case " $dflt " in
   *"-l$thislib "*) ;;
   *)
    case "$linkmsg" in
    ")
     dflt="$dflt -l$thislib"
     libsfound="$libsfound $xxx"
     yyy=`basename $xxx`
     libsfiles="$libsfiles $yyy"
     yyy=`echo $xxx|$sed -e "s%/$yyy\\$%%"`
     case " $libsdirs
```

```
 " in
     *" $yyy "*) ;;
     *) libsdirs="$libsdirs $yyy" ;;
     esac
       ;;
    esac
    ;;
   esac
   break
     fi
 done
 if $test ! -f "$xxx"; then
     echo "No -l$thislib."
 fi
done
set X $dflt
shift
dflt="$*"
case "$libs" in
") dflt="$dflt";;
*) dflt="$libs";;
esac
case "$dflt" in
' '|") dflt='none';;
esac
$rm -f lt.c lt

$cat <<EOM

In order to compile $package on your machine, a number of libraries
are usually needed.  Include any other special libraries here as well.
Say "none" for none.  The default list is almost always right.
EOM

echo " "
rp="Which libraries to use?"
. ./myread
case "$ans" in
none) libs=' ';;
*) libs="$ans";;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/libs.U
No license file was found, but licenses were detected in source scan.

?RCS: Id

```
?RCS:
?RCS: Copyright (c) 2009 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getaddrinfo: Inlibc
?MAKE: -pick add $@ %<
?S:d_getaddrinfo:
?S: This variable conditionally defines the HAS_GETADDRINFO symbol,
?S: which indicates to the C program that the getaddrinfo() function
?S: is available.
?S:.
?C:HAS_GETADDRINFO:
?C: This symbol, if defined, indicates that the getaddrinfo() function
?C: is available for use.
?C:.
?H:#$d_getaddrinfo HAS_GETADDRINFO  /**/
?H:.
?LINT:set d_getaddrinfo
: see if getaddrinfo exists
set getaddrinfo d_getaddrinfo
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_getaddrinfo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sig_name.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  16:21:25  ram
?RCS: patch61: brand new algorithm for sig_name and (new!) sig_num
?RCS:
?RCS: Revision 3.0.1.4  1995/07/25  14:14:54  ram
?RCS: patch56: added <asm/signal.h> lookup for linux
?RCS:
?RCS: Revision 3.0.1.3  1995/05/12  12:24:11  ram
?RCS: patch54: now looks for <linux/signal.h> too (ADO)
```

```
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20  07:06:57  ram
?RCS: patch30: final echo was missing to close awk-printed string
?RCS:
?RCS: Revision 3.0.1.1
  1994/05/06  15:17:55  ram
?RCS: patch23: signal list now formatted to avoid scroll-ups (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:sig_name sig_name_init sig_num sig_num_init sig_count sig_size: \
 awk Signal Oldconfig rm
?MAKE: -pick add $@ %<
?S:sig_name:
?S: This variable holds the signal names, space separated. The leading
?S: SIG in signal name is removed.  A ZERO is prepended to the
?S: list.  This is currently not used.
?S:.
?S:sig_name_init:
?S: This variable holds the signal names, enclosed in double quotes and
?S: separated by commas, suitable for use in the SIG_NAME definition
?S: below.  A "ZERO" is prepended to the list, and the list is
?S: terminated with a plain 0.  The leading SIG in signal names
?S: is removed. See sig_num.
?S:.
?S:sig_num:
?S: This variable holds the signal numbers, space separated. A ZERO is
?S: prepended to the list (corresponding to the fake SIGZERO), and
?S: the list is terminated
 with a 0.  Those numbers correspond to
?S: the value of the signal listed in the same place within the
?S: sig_name list.
?S:.
?S:sig_num_init:
?S: This variable holds the signal numbers, enclosed in double quotes and
?S: separated by commas, suitable for use in the SIG_NUM definition
?S: below.  A "ZERO" is prepended to the list, and the list is
?S: terminated with a plain 0.
?S:.
?S:sig_count (sig_name.U):
?S:  This variable holds a number larger than the largest valid
?S:  signal number.  This is usually the same as the NSIG macro.
?S:.
?S:sig_size:
?S:  This variable contains the number of elements of the sig_name
?S:  and sig_num arrays, excluding the final NULL entry.
?S:.
```

```
?C:SIG_NAME:
?C: This symbol contains a list of signal names in order of
?C: signal number. This is intended
?C: to be used as a static array initialization, like this:
?C:  char *sig_name[] = { SIG_NAME };
?C: The signals in the list are separated with commas, and each signal
?C: is surrounded by double
 quotes. There is no leading SIG in the signal
?C: name, i.e. SIGQUIT is known as "QUIT".
?C: Gaps in the signal numbers (up to NSIG) are filled in with NUMnn,
?C: etc., where nn is the actual signal number (e.g. NUM37).
?C: The signal number for sig_name[i] is stored in sig_num[i].
?C: The last element is 0 to terminate the list with a NULL.  This
?C: corresponds to the 0 at the end of the sig_num list.
?C:.
?C:SIG_NUM:
?C: This symbol contains a list of signal numbers, in the same order as the
?C: SIG_NAME list. It is suitable for static array initialization, as in:
?C:  int sig_num[] = { SIG_NUM };
?C: The signals in the list are separated with commas, and the indices
?C: within that list and the SIG_NAME list match, so it's easy to compute
?C: the signal name from a number or vice versa at the price of a small
?C: dynamic linear lookup.
?C: Duplicates are allowed, but are moved to the end of the list.
?C: The signal number corresponding to sig_name[i] is sig_number[i].
?C: if (i
 < NSIG) then sig_number[i] == i.
?C: The last element is 0, corresponding to the 0 at the end of
?C: the sig_name list.
?C:.
?C:SIG_COUNT:
?C: This variable contains a number larger than the largest
?C: signal number.  This is usually the same as the NSIG macro.
?C:.
?C:SIG_SIZE:
?C: This variable contains the number of elements of the sig_name
?C: and sig_num arrays, excluding the final NULL entry.
?C:.
?H:#define SIG_NAME $sig_name_init  /**/
?H:#define SIG_NUM  $sig_num_init  /**/
?H:#define SIG_COUNT $sig_count   /**/
?H:#define SIG_SIZE $sig_size   /**/
?H:.
?T:i doinit
?F:!= !signal_cmd
?X: signal.cmd creates a file  signal.lst which has two columns:
?X: NAME  number, e.g.
?X:  HUP 1
```

```
?X: The list is sorted on signal number, with duplicates moved to
?X: the end..
: generate list of signal names
echo " "
case "$sig_name_init" in
") doinit=yes ;;
*)  case "$sig_num_init" in
   "|*,*) doinit=yes ;;
   esac ;;
esac
case "$doinit" in
yes)
 echo "Generating a list of signal names and
 numbers..." >&4
 . ./signal_cmd
 sig_count=`$awk '/^NSIG/ { printf "%d", $2 }' signal.lst`
 sig_name=`$awk 'BEGIN { printf "ZERO " }
   !/^NSIG/ { printf "%s ", $1 }' signal.lst`
 sig_num=`$awk  'BEGIN { printf "0 " }
   !/^NSIG/ { printf "%d ", $2 }' signal.lst`
 sig_name_init=`$awk 'BEGIN { printf "\"ZERO\", " }
        !/^NSIG/ { printf "\"%s\", ", $1 }
        END { printf "0\n" }' signal.lst`
 sig_num_init=`$awk  'BEGIN { printf "0, " }
        !/^NSIG/ { printf "%d, ", $2}
        END { printf "0\n"}' signal.lst`
 ;;
esac
echo "The following $sig_count signals are available:"
echo " "
echo $sig_name | $awk \
'BEGIN { linelen = 0 }
{
 for (i = 1; i <= NF; i++) {
  name = "SIG" $i " "
  linelen = linelen + length(name)
  if (linelen > 70) {
   printf "\n"
   linelen = length(name)
  }
  printf "%s", name
 }
 printf "\n"
}'
sig_size=`echo $sig_name | awk '{print NF}'`
$rm -f signal signal.c signal.awk signal.lst signal_cmd
```

Found in path(s):

* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/sig_name.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Tye McQueen <tye@metronet.com> added safe setuid script checks.
?RCS:
?RCS: $Log: d_dosuid.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:33:03  ram
?RCS: patch61: moved unit to TOP via a ?Y: layout directive
?RCS: patch61: tell them /dev/fd is not about floppy disks
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:12:08  ram
?RCS: patch36: added checks for secure setuid scripts (Tye McQueen)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_dosuid
 d_suidsafe: cat contains ls rm test Myread Setvar \
 Oldconfig Guess package hint
?MAKE: -pick add $@ %<
?S:d_suidsafe:
?S: This variable conditionally defines SETUID_SCRIPTS_ARE_SECURE_NOW
?S: if setuid scripts can be secure.  This test looks in /dev/fd/.
?S:.
?S:d_dosuid:
?S: This variable conditionally defines the symbol DOSUID, which
?S: tells the C program that it should insert setuid emulation code
?S: on hosts which have setuid #! scripts disabled.
?S:.
?C:SETUID_SCRIPTS_ARE_SECURE_NOW:
?C: This symbol, if defined, indicates that the bug that prevents
?C: setuid scripts from being secure is not present in this kernel.
?C:.
?C:DOSUID:
?C: This symbol, if defined, indicates that the C program should
?C: check the script that it is executing for setuid/setgid bits, and
?C: attempt to emulate setuid/setgid on systems that have disabled
```

```
?C: setuid #! scripts because the kernel can't do it securely.
?C: It is up to the package designer to make sure that this emulation
?C: is done securely.
  Among other things, it should do an fstat on
?C: the script it just opened to make sure it really is a setuid/setgid
?C: script, it should make sure the arguments passed correspond exactly
?C: to the argument on the #! line, and it should not trust any
?C: subprocesses to which it must pass the filename rather than the
?C: file descriptor of the script to be executed.
?C:.
?H:#$d_suidsafe SETUID_SCRIPTS_ARE_SECURE_NOW /**/
?H:#$d_dosuid DOSUID  /**/
?H:.
?Y:TOP
?F:!reflect
?LINT: set d_suidsafe
?LINT: set d_dosuid
: see if setuid scripts can be secure
$cat <<EOM

Some kernels have a bug that prevents setuid #! scripts from being
secure.  Some sites have disabled setuid #! scripts because of this.

First let's decide if your kernel supports secure setuid #! scripts.
(If setuid #! scripts would be secure but have been disabled anyway,
don't say that they are secure if asked.)

EOM

val="$undef"
if $test -d /dev/fd; then
 echo "#!$ls" >reflect
 chmod +x,u+s reflect
 ./reflect >flect
 2>&1
 if $contains "/dev/fd" flect >/dev/null; then
  echo "Congratulations, your kernel has secure setuid scripts!" >&4
  val="$define"
 else
  $cat <<EOM
If you are not sure if they are secure, I can check but I'll need a
username and password different from the one you are using right now.
If you don't have such a username or don't want me to test, simply
enter 'none'.

EOM
  rp='Other username to test security of setuid scripts with?'
  dflt='none'
```

```
  . ./myread
  case "$ans" in
  n|none)
   case "$d_suidsafe" in
   ") echo "I'll assume setuid scripts are *not* secure." >&4
    dflt=n;;
   "$undef")
    echo "Well, the $hint value is *not* secure." >&4
    dflt=n;;
   *) echo "Well, the $hint value *is* secure." >&4
    dflt=y;;
   esac
   ;;
  *)
   $rm -f reflect flect
   echo "#!$ls" >reflect
   chmod +x,u+s reflect
   echo >flect
   chmod a+w flect
   echo "'su" will (probably) prompt you for "'$ans's password."
   su $ans -c './reflect >flect'
   if $contains "/dev/fd" flect
 >/dev/null; then
    echo "Okay, it looks like setuid scripts are secure." >&4
    dflt=y
   else
    echo "I don't think setuid scripts are secure." >&4
    dflt=n
   fi
   ;;
  esac
  rp='Does your kernel have *secure* setuid scripts?'
  . ./myread
  case "$ans" in
  [yY]*) val="$define";;
  *) val="$undef";;
  esac
 fi
else
 echo "I don't think setuid scripts are secure (no /dev/fd directory)." >&4
 echo "(That's for file descriptors, not floppy disks.)"
 val="$undef"
fi
set d_suidsafe
eval $setvar

$rm -f reflect flect
```

```
: now see if they want to do setuid emulation
echo " "
val="$undef"
case "$d_suidsafe" in
"$define")
 val="$undef"
 echo "No need to emulate SUID scripts since they are secure here." >& 4
 ;;
*)
 $cat <<EOM
Some systems have disabled setuid scripts, especially systems where
setuid scripts cannot be secure.  On systems where setuid scripts have
been disabled, the setuid/setgid bits on scripts are currently
useless.  It is possible for $package to detect those bits
 and emulate
setuid/setgid in a secure fashion.  This emulation will only work if
setuid scripts have been disabled in your kernel.

EOM
 case "$d_dosuid" in
 "$define") dflt=y ;;
 *) dflt=n ;;
 esac
 rp="Do you want to do setuid/setgid emulation?"
 . ./myread
 case "$ans" in
 [yY]*) val="$define";;
 *) val="$undef";;
 esac
 ;;
esac
set d_dosuid
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_dosuid.U
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```
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?RCS:
?MAKE:d_fp_classl: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_fp_classl:
?S: This variable conditionally defines the HAS_FP_CLASSL symbol, which
?S: indicates to the C program that the fp_classl() routine is available.
?S:.
?C:HAS_FP_CLASSL:
?C: This symbol, if defined, indicates that the fp_classl routine is
?C: available to classify long doubles.  Available for example in
?C: Digital UNIX.  See for possible values HAS_FP_CLASS.
?C:.
?H:#$d_fp_classl HAS_FP_CLASSL  /**/
?H:.
?LINT:set d_fp_classl
: see if fp_classl exists
set fp_classl d_fp_classl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fp_classl.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_keepsig.U,v $
?RCS: Revision 3.0.1.4  1995/07/25  13:57:56  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:26:25  ram
?RCS: patch45: protected "sh -c" within backquotes for Linux and SGI
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:13:59  ram
?RCS: patch36: call ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.1  1993/10/16  13:48:47  ram
?RCS: patch12: comment for SIGNALS_KEPT was the other way round
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:06:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:d_keepsig: cat Compile rm Guess contains echo n c Setvar run
?MAKE: -pick add $@ %<
?S:d_keepsig:
?S: This variable contains the eventual value of the SIGNALS_KEPT symbol,
?S: which indicates to the C program if signal handlers need not reinstated
?S: after receipt of a signal.
?S:.
?C:SIGNALS_KEPT (PERSISTENT_SIGNAL):
?C: This symbol is defined if signal handlers needn't be reinstated after
?C: receipt of a signal.
?C:.
?H:#$d_keepsig SIGNALS_KEPT /**/
?H:.
?F:!try !try.out
?LINT:set d_keepsig
: see if signals are kept
val="$undef";
echo " "
echo "Checking to see if signal handlers stick around..." >&4
$cat >try.c <<'EOCP'
foo() {}

int main()
{
 signal(2, foo);
 kill(getpid(), 2);
 kill(getpid(), 2);
 printf("abc\n");
}
EOCP
set try
if eval $compile; then
?X: On AIX a single ./try will not work (with ksh)
?X: Backquotes required on Linux and SGI (prevents "ambiguous output redirect")
?X:
 (reported by Xavier LeVourch <xavierl@eiffel.com>)
 echo `sh -c $run ./try >try.out 2>/dev/null` >/dev/null
 if $contains abc try.out >/dev/null 2>&1; then
  echo "Yes, they do."
  val="$define";
 else
  echo "No, they don't."
 fi
else
 $echo $n "(I can't seem to compile the test program. Assuming $c"
 if ./bsd; then
  echo "they do.)"
  val="$define"
```

```
 else
  echo "they don't.)"
 fi
fi
set d_keepsig
eval $setvar
$rm -f try*
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_keepsig.U
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_mmap mmaptype: Inlibc i_sysmman cat cc ccflags
?MAKE: -pick add $@ %<
?S:d_mmap:
?S: This variable conditionally defines HAS_MMAP if mmap() is
?S: available to map a file into memory.
?S:.
?S:mmaptype:
?S: This symbol contains the type of pointer returned by mmap()
?S: (and simultaneously the type of the first argument).
?S: It can be 'void *' or 'caddr_t'.
?S:.
?C:HAS_MMAP:
?C: This symbol, if defined, indicates that the mmap system call is
?C: available to map a file into memory.
?C:.
?C:Mmap_t:
?C: This symbol
 holds the return type of the mmap() system call
?C: (and simultaneously the type of the first argument).
?C: Usually set to 'void *' or 'caddr_t'.
?C:.
?H:#$d_mmap HAS_MMAP  /**/
?H:#define Mmap_t $mmaptype /**/
?H:.
?LINT:set d_mmap
```

```
: see if mmap exists
set mmap d_mmap
eval $inlibc
: see what shmat returns
: default to something harmless
mmaptype='void *'
case "$i_sysmman$d_mmap" in
"$define$define")
 $cat >mmap.c <<'END'
#include <sys/mman.h>
void *mmap();
END
 if $cc $ccflags -c mmap.c >/dev/null 2>&1; then
  mmaptype='void *'
 else
  mmaptype='caddr_t'
 fi
 echo "and it returns ($mmaptype)." >&4
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_mmap.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_scannl.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:41:27  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  13:59:12  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:00  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Does the scanf routine read "\n" correctly ? This is was not
```

```
?X: the case on AIX...
?X:
?MAKE:d_scannl: cat +cc +ccflags rm Setvar
?MAKE: -pick add $@ %<
?S:d_scannl:
?S: This
 variable conditionally defines SCAN_NL, which indicates
?S: wether the C library routines scanf() and friends can deal with
?S: a '\n' in the input correctly. They do most of the time.
?S:.
?C:SCAN_NL:
?C: This symbol is defined if the C library routines scanf() and friends
?C: can deal with a '\n' in the input correctly, so that you can say
?C: scanf("%d\n"); instead of scanf("%d"); getc(c); to handle the '\n'.
?C:.
?H:#$d_scannl SCAN_NL  /* scanf("%d\n") works */
?H:.
?F:!try
?LINT:set d_scannl
: does scanf handle "\n" correctly ?
echo " "
val="$define"
?X: I really want to say "\n" instead of '\n', because I am referring
?X: to the string given as argument to scanf().
echo 'Let""""s see if scanf() handles "\\n" correctly...' >&4
$cat >try.c <<'EOCP'
int main()
{
 int i = 0, j = 0;
 scanf("%d\n%d", &i, &j);
 if (j != 3)
  exit(1);
 exit(0);
}
EOCP
if $cc $ccflags -o try try.c >/dev/null 2>&1; then
 if ./try <<'EOD'
2
3
EOD
 then
  echo "Yes, it does."
 else
  echo "No, it doesn't."
  val="$undef"
 fi
else
 echo
```

```
 "(I can't seem to compile the test program. Assuming it does.)"
fi
set d_scannl
eval $setvar
$rm -f try.* try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_scannl.U
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```
?RCS: $Id: i_dbm.U 1 2006-08-24 12:32:52Z rmanfredi $
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_dbm.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:48:20  ram
?RCS: patch61: added I_RPCSVC_DBM check
?RCS:
?RCS: Revision 3.0.1.1  1995/05/12  12:16:05  ram
?RCS: patch54: made more robust by checking both header and lib (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_dbm i_rpcsvcdbm: Inhdr Inlibc Setvar
?MAKE: -pick add $@ %<
?S:i_dbm (d_odbm):
?S: This variable conditionally defines
 the I_DBM symbol, which
?S: indicates to the C program that <dbm.h> exists and should
?S: be included.
?S:.
?S:i_rpcsvcdbm:
?S: This variable conditionally defines the I_RPCSVC_DBM symbol, which
?S: indicates to the C program that <rpcsvc/dbm.h> exists and should
?S: be included.  Some System V systems might need this instead of <dbm.h>.
?S:.
?C:I_DBM (HAS_ODBM ODBM):
?C: This symbol, if defined, indicates that <dbm.h> exists and should
?C: be included.
?C:.
```

```
?C:I_RPCSVC_DBM:
?C: This symbol, if defined, indicates that <rpcsvc/dbm.h> exists and
?C: should be included.
?C:.
?H:#$i_dbm I_DBM /**/
?H:#$i_rpcsvcdbm I_RPCSVC_DBM /**/
?H:.
?T:d_dbmclose
?LINT:set i_dbm i_rpcsvcdbm
: see if dbm.h is available
?X: We might just have the header, not the library.
?X: We look for dbmclose() rather than dbminit() because
?X: some versions of SCO Unix have -ldbm, but are missing dbmclose(). -- ADO
?X: Some System V systems have <rpcsvc/dbm.h> instead of <dbm.h>.
: see if dbmclose exists
set dbmclose
 d_dbmclose
eval $inlibc

case "$d_dbmclose" in
$define)
 set dbm.h i_dbm
 eval $inhdr
 case "$i_dbm" in
 $define)
  val="$undef"
  set i_rpcsvcdbm
  eval $setvar
  ;;
 *) set rpcsvc/dbm.h i_rpcsvcdbm
  eval $inhdr
  ;;
 esac
 ;;
*) echo "We won't be including <dbm.h>"
 val="$undef"
 set i_dbm
 eval $setvar
 val="$undef"
 set i_rpcsvcdbm
 eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_dbm.U

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```
?RCS: $Id: d_scandir.U 1 2006-08-24 12:32:52Z rmanfredi $
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?RCS:
?RCS: $Log: d_scandir.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:06:35  ram
?RCS: patch16: created
?RCS:
?MAKE:d_scandir: Inlibc
?MAKE: -pick add $@ %<
?S:d_scandir:
?S: This variable conditionally defines HAS_SCANDIR if scandir() is
?S: available to scan a directory.
?S:.
?C:HAS_SCANDIR:
?C: This symbol, if defined, indicates that the scandir routine is
?C: available to scan a directory.
?C:.
?H:#$d_scandir HAS_SCANDIR /**/
?H:.
?LINT:set d_scandir
: see if
 scandir exists
set scandir d_scandir
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_scandir.U
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?RCS:
?MAKE:d_fs_data_s: Hasstruct i_sysparam i_sysmount i_systypes Setvar
?MAKE: -pick add $@ %<
```

```
?S:d_fs_data_s:
?S: This variable conditionally defines the HAS_STRUCT_FS_DATA symbol,
?S: which indicates that the struct fs_data is supported.
?S:.
?C:HAS_STRUCT_FS_DATA:
?C: This symbol, if defined, indicates that the struct fs_data
?C: to do statfs() is supported.
?C:.
?H:#$d_fs_data_s HAS_STRUCT_FS_DATA /**/
?H:.
?LINT:set d_fs_data_s
: Check for fs_data_s
echo " "
echo "Checking to see if your system supports struct fs_data..." >&4
set d_fs_data_s fs_data $i_systypes sys/types.h $i_sysparam sys/param.h $i_sysmount sys/mount.h
eval $hasstruct
case "$d_fs_data_s" in
"$define")      echo "Yes, it does."   ;;
*)
            echo "No, it doesn't." ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fs_data_s.U
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?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:byteorder: cat Myread Oldconfig Loc +cc +ccflags rm_try
?MAKE: -pick add $@ %<
?S:byteorder:
?S: This variable holds the byte order. In the following, larger digits
?S: indicate more significance.  The variable byteorder is either 4321
?S: on a big-endian machine, or 1234 on a little-endian, or 87654321
?S: on a Cray ... or 3412 with weird order !
?S:.
?C:BYTEORDER:
?C: This symbol hold the hexadecimal constant defined in byteorder,
?C: i.e. 0x1234 or 0x4321, etc...
?C:.
```

```
?H:#define BYTEORDER 0x$byteorder /*
 large digits for MSB */
?H:.
?T:xxx_prompt
?F:!try
: check for ordering of bytes in a long
case "$byteorder" in
")
 $cat <<'EOM'

In the following, larger digits indicate more significance.  A big-endian
machine like a Pyramid or a Motorola 680?0 chip will come out to 4321. A
little-endian machine like a Vax or an Intel 80?86 chip would be 1234. Other
machines may have weird orders like 3412.  A Cray will report 87654321. If
the test program works the default is probably right.
I'm now running the test program...
EOM
 $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
 int i;
 union {
  unsigned long l;
  char c[sizeof(long)];
 } u;

 if (sizeof(long) > 4)
  u.l = (0x08070605L << 32) | 0x04030201L;
 else
  u.l = 0x04030201L;
 for (i = 0; i < sizeof(long); i++)
  printf("%c", u.c[i]+'0');
 printf("\n");
 exit(0);
}
EOCP
 xxx_prompt=y
 if $cc $ccflags -o try try.c >/dev/null 2>&1 && ./try > /dev/null; then
  dflt=`./try`
  case "$dflt" in
  [1-4][1-4][1-4][1-4]|12345678|87654321)
   echo
 "(The test program ran ok.)"
   echo "byteorder=$dflt"
   xxx_prompt=n
   ;;
  ????|????????) echo "(The test program ran ok.)" ;;
```

```
  *) echo "(The test program didn't run right for some reason.)" ;;
  esac
 else
  dflt='4321'
  cat <<'EOM'
(I can't seem to compile the test program.  Guessing big-endian...)
EOM
 fi
 case "$xxx_prompt" in
 y)
  rp="What is the order of bytes in a long?"
  . ./myread
  byteorder="$ans"
  ;;
 *) byteorder=$dflt
  ;;
 esac
 ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/byteorder.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_NOFILE.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:08:38  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:nofile d_gettblsz tablesize: Myread Guess cat +cc +ccflags +libs \
 test rm Csym
?MAKE: -pick add $@ %<
?S:nofile:
?S: This variable contains the number of file descriptors available to the
```

```
?S: process.
?S:.
?S:d_gettblsz:
?S: This variable conditionally handles remapping
 of the getdtablesize()
?S: subroutine to ulimit(4,0), or the NOFILE manifest constant.
?S:.
?S:tablesize:
?S: This variable contains either the 'NOFILE' constant or 'ulimit(4, 0L)'
?S: and is used as the remapped value for the getdtablesize() macro.
?S:.
?C:getdtablesize:
?C: This catches use of the getdtablesize() subroutine, and remaps it
?C: to either ulimit(4,0) or NOFILE, if getdtablesize() isn't available.
?C:.
?C:VAL_NOFILE:
?C: This symbol contains the number of file descriptors available to the
?C: process, as determined at configuration time. Unless a static constant
?C: is needed, you should rely on getdtablesize() to obtain that number.
?C:.
?H:#$d_gettblsz getdtablesize() $tablesize /**/
?H:#define VAL_NOFILE $nofile /* Number of file descriptors */
?H:.
?F:!nofile
?T:d_ulimit4 val
: see if getdtablesize exists
echo " "
?X: Revert logical value (d_gettblsz is undef iff getdtablesize is present)
case "$d_gettblsz" in
$define) d_gettblsz="$undef";;
$undef) d_gettblsz="$define";;
esac
if
 set getdtablesize val -f d_gettblsz; eval $csym; $val; then
 echo 'getdtablesize() found.' >&4
 d_gettblsz="$undef"
 tablesize=''
@if VAL_NOFILE || nofile
 $cat >nofile.c <<'EOCP'
#include <stdio.h>
int main()
{
 printf("%d\n", getdtablesize());
}
EOCP
 nofile=''
 if $cc $ccflags -o nofile nofile.c $libs >/dev/null 2>&1; then
  nofile=`./nofile 2>/dev/null`
```

```
 fi
 if $test "$nofile"; then
  echo "(You have $nofile file descriptors available per process.)"
 else
  nofile='20'
  if ./bsd; then
   nofile='64'
  fi
 echo "(Hmm... Let's say you have $nofile file descriptors available.)"
 fi
@end
else
 echo 'getdtablesize() NOT found...' >&4
 if set ulimit val -f; eval $csym; $val; then
  echo 'Maybe ulimit(4,0) will work...'
  $cat >nofile.c <<'EOCP'
#include <stdio.h>
#ifdef GETPARAM_H
#include <sys/param.h>
#endif
int main()
{
 printf("%d %d\n",
#ifdef NOFILE
  NOFILE,
#else
  0,
#endif
  ulimit(4,0));
  exit(0);
}
EOCP
  if $cc $ccflags -DGETPARAM_H -o nofile nofile.c $libs
 >/dev/null 2>&1 \
   || $cc $ccflags -o nofile nofile.c $libs >/dev/null 2>&1 ; then
   set `./nofile`
   d_gettblsz=$1
   d_ulimit4=$2
   if $test "$d_ulimit4" -lt 0; then
    echo "Your ulimit() call doesn't tell me what I want to know."
    echo "We'll just use NOFILE in this case."
    nofile=$d_gettblsz
    d_gettblsz="$define"
    tablesize='NOFILE'
   else
    if $test "$d_gettblsz" -gt 0; then
    echo "Your system defines NOFILE to be $d_gettblsz, and" >&4
    else
```

```
    echo "I had trouble getting NOFILE from your system, but" >&4
    fi
echo "ulimit returns $d_ulimit4 as the number of available file descriptors." >&4
    dflt='y';
    echo " "
 rp='Should I use ulimit to get the number of available file descriptors?'
    . ./myread
    case "$ans" in
    y*)
     nofile=$d_ulimit4
     d_gettblsz="$define"
     tablesize='ulimit(4, 0L)'
     echo "Using ulimit(4,0)."
     ;;
    *)
     nofile=$d_gettblsz
     d_gettblsz="$define"
     tablesize='NOFILE'
     echo "Using NOFILE."
     ;;
    esac
   fi
  else
   echo
 "Strange, I couldn't get my test program to compile."
   echo "We'll just use NOFILE in this case."
   d_gettblsz="$define"
   tablesize='NOFILE'
   nofile=''
  fi
 else
  echo 'Using NOFILE instead.'
  d_gettblsz="$define"
  tablesize='NOFILE'
  nofile=''
 fi
fi
@if VAL_NOFILE || nofile
case "$nofile" in
'')
 $cat >nofile.c <<'EOCP'
#include <stdio.h>
#ifdef GETPARAM_H
#include <sys/param.h>
#endif
int main()
{
 printf("%d\n",
```

```
#ifdef NOFILE
  NOFILE,
#else
  0,
#endif
  );
  exit(0);
}
EOCP
 if $cc $ccflags -DGETPARAM_H -o nofile nofile.c $libs >/dev/null 2>&1 \
  || $cc $ccflags -o nofile nofile.c $libs >/dev/null 2>&1 ; then
  nofile=`./nofile 2>/dev/null`
 fi
 if $test "$nofile"; then
  echo "(You have $nofile file descriptors available per process.)"
 else
  nofile='20'
  if ./bsd; then
   nofile='64'
  fi
 echo "(Hmm... Let's say you have $nofile file descriptors available.)"
 fi
 ;;
esac
@end
$rm -f nofile*
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_NOFILE.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_asinh: Inlibc
?MAKE: -pick add $@ %<
?S:d_asinh:
?S: This variable conditionally defines the HAS_ASINH symbol, which
?S: indicates to the C program that the asinh() routine is available.
?S:.
?C:HAS_ASINH:
?C: This symbol, if defined, indicates that the asinh routine is
?C: available to do the inverse hyperbolic sine function.
?C:.
?H:#$d_asinh HAS_ASINH  /**/
?H:.
?LINT:set d_asinh
```

```
: see if asinh exists
set asinh d_asinh
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_asinh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2016 Tony Cook
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:dtraceobject dtracexnolibs: usedtrace dtrace cc ccflags optimize \
  Compile cat rm_try
?MAKE: -pick add $@ %<
?S:dtraceobject:
?S: Whether we need to build an object file with the dtrace tool.
?S:.
?S:dtracexnolibs:
?S: Whether dtrace accepts -xnolibs.  If available we call dtrace -h
?S: and dtrace -G with -xnolibs to allow dtrace to run in a jail on
?S: FreeBSD.
?S:.
?F: !perldtrace.h
?T:xnolibs
: Probe whether dtrace builds an object, as newer Illumos requires an input
: object file that uses at least one of the probes defined in the .d file
case "$usedtrace" in
$define)
   case "$dtracexnolibs" in
   $define|true|[yY]*)
       dtracexnolibs=$define
 $dtrace -h -xnolibs -s ../perldtrace.d -o perldtrace.h
 ;;
   ' '|'')
        if $dtrace -h -xnolibs -s ../perldtrace.d -o perldtrace.h 2>&1 ; then
      dtracexnolibs=$define
      echo "Your dtrace accepts -xnolibs"
 elif $dtrace -h -s ../perldtrace.d -o perldtrace.h 2>&1 ; then
      dtracexnolibs=$undef
      echo "Your dtrace doesn't accept -xnolibs"
 else
            echo "Your dtrace doesn't work at all, try building without dtrace support" >&4
      exit 1
 fi
 ;;
```

```
  *)
      dtracexnolibs=$undef
 $dtrace -h -s ../perldtrace.d -o perldtrace.h
 ;;
  esac
  case $dtracexnolibs in
  $define) xnolibs=-xnolibs ;;
  *) xnolibs= ;;
  esac

  case "$dtraceobject" in
  $define|true|[yY]*)
      dtraceobject=$define
      ;;
  ' '|'')
      $cat >try.c <<EOM
#include "perldtrace.h"
int main(void) {
  PERL_LOADED_FILE("dummy");
  return 0;
}
EOM
      dtraceobject=$undef
      if $cc -c -o try.o $optimize $ccflags try.c \
                && $dtrace -G $xnolibs -s ../perldtrace.d try.o >/dev/null 2>&1; then

        dtraceobject=$define
          echo "Your dtrace builds an object file"
      fi
      ;;
  *) dtraceobject=$undef ;;
  esac
  $rm_try perldtrace.o perldtrace.h
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/dtraceobject.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_isascii.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:13:39  ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:09:32  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_isascii: cc cat ccflags ldflags rm libs Setvar
?MAKE: -pick add $@ %<
?S:d_isascii:
?S: This variable conditionally defines the HAS_ISASCII constant,
?S: which indicates to the C program that isascii()
 is available.
?S:.
?C:HAS_ISASCII:
?C: This manifest constant lets the C program know that isascii
?C: is available.
?C:.
?H:#$d_isascii HAS_ISASCII  /**/
?H:.
?LINT:set d_isascii
?X: Can't use Inlibc because isascii() might be a macro.
: Look for isascii
echo " "
$cat >isascii.c <<'EOCP'
#include <stdio.h>
#include <ctype.h>
int main() {
 int c = 'A';
 if (isascii(c))
  exit(0);
 else
  exit(1);
}
EOCP
if $cc $ccflags $ldflags -o isascii isascii.c $libs >/dev/null 2>&1 ; then
 echo "isascii() found." >&4
 val="$define"
else
 echo "isascii() NOT found." >&4
 val="$undef"
fi
set d_isascii
eval $setvar
```

```
$rm -f isascii*
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_isascii.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sanemcmp.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:41:19  ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_sanemcmp: cat d_memcmp +cc +optimize +ccflags +libs +ldflags rm \
 i_memory i_stdlib i_string i_unistd Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_sanemcmp:
?S: This variable conditionally defines the HAS_SANE_MEMCMP symbol if
?S: the memcpy() routine is available and can be used to compare relative
?S: magnitudes of chars with their high bits set.
?S:.
?C:HAS_SANE_MEMCMP:
?C: This symbol,
 if defined, indicates that the memcmp routine is available
?C: and can be used to compare relative magnitudes of chars with their high
?C: bits set.  If it is not defined, roll your own version.
?C:.
?H:#$d_sanemcmp HAS_SANE_MEMCMP /**/
?H:.
?F:!sanemcmp
?LINT: set d_sanemcmp
: can memcmp be trusted to compare relative magnitude?
?X: assume the worst
val="$undef"
case "$d_memcmp" in
"$define")
 echo " "
 echo \
   "Checking to see if your memcmp() can compare relative magnitude..." >&4
```

```
 $cat >foo.c <<EOCP
#$i_memory I_MEMORY
#$i_stdlib I_STDLIB
#$i_string I_STRING
#$i_unistd I_UNISTD
EOCP
 $cat >>foo.c <<'EOCP'
#include <stdio.h>
#ifdef I_MEMORY
#  include <memory.h>
#endif
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#ifdef I_STRING
#  include <string.h>
#else
#  include <strings.h>
#endif
#ifdef I_UNISTD
#  include <unistd.h>  /* Needed for NetBSD */
#endif
int main()
{
char a = -1;
char b = 0;
if ((a < b) && memcmp(&a, &b, 1) < 0)
 exit(1);
exit(0);
}
EOCP
 if $cc $optimize $ccflags
 $ldflags \
      -o sanemcmp foo.c $libs >/dev/null 2>&1; then
  if ./sanemcmp 2>/dev/null; then
   echo "Yes, it can."
   val="$define"
  else
   echo "No, it can't (it uses signed chars)."
  fi
 else
  echo "(I can't compile the test program, so we'll assume not...)"
 fi
 ;;
esac
$rm -f foo.* sanemcmp core
set d_sanemcmp
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sanemcmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_euc2jis.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_euc2jis.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_euc2jis: Inlibc
?MAKE: -pick add $@ %<
?S:d_euc2jis:
?S: This variable conditionally defines the HAS_EUC2JIS symbol, which
?S: indicates to the C program that the euc2jis() routine is available
?S: to convert EUC to JIS.
?S:.
?C:HAS_EUC2JIS:
?C: This symbol, if defined, indicates that the euc2jis routine is
?C: available to convert
 EUC to JIS.
?C:.
?H:#$d_euc2jis HAS_EUC2JIS  /**/
?H:.
?LINT:set d_euc2jis
: see if euc2jis exists
set euc2jis d_euc2jis
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_euc2jis.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: archlib.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  15:23:38  ram
?RCS: patch61: skip existence checks for archlib
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:15:18  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/02/15  14:14:14  ram
?RCS: patch51: architecture name is now computed by a separate unit
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:32:22  ram
?RCS:
 patch49: archname is now systematically recomputed
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:02:36  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_archlib archlib archlibexp installarchlib: archname afs spackage \
 cat Getfile Loc Oldconfig prefixexp privlib test Prefixit Prefixup
?MAKE: -pick add $@ %<
?Y:TOP
?S:d_archlib:
?S: This variable conditionally defines ARCHLIB to hold the pathname
?S: of architecture-dependent library files for $package.  If
?S: $archlib is the same as $privlib, then this is set to undef.
?S:.
?S:archlib:
?S: This variable holds the name of the directory in which the user wants
?S: to put architecture-dependent public library files for $package.
?S: It is most often a local directory such as /usr/local/lib.
?S: Programs using this variable must be prepared to deal
?S: with filename expansion.
?S:.
?S:archlibexp:
?S: This variable is the same as the archlib variable, but is
?S: filename
 expanded at configuration time, for convenient use.
?S:.
?S:installarchlib:
```

```
?S: This variable is really the same as archlibexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?C:ARCHLIB:
?C: This variable, if defined, holds the name of the directory in
?C: which the user wants to put architecture-dependent public
?C: library files for $package.  It is most often a local directory
?C: such as /usr/local/lib.  Programs using this variable must be
?C: prepared to deal with filename expansion.  If ARCHLIB is the
?C: same as PRIVLIB, it is not defined, since presumably the
?C: program already searches PRIVLIB.
?C:.
?C:ARCHLIB_EXP:
?C: This symbol contains the ~name expanded version of ARCHLIB, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#$d_archlib ARCHLIB "$archlib"  /**/
?H:#$d_archlib ARCHLIB_EXP "$archlibexp"  /**/
?H:.
: determine where public architecture
 dependent libraries go
set archlib archlib
eval $prefixit
case "$archlib" in
")
 case "$privlib" in
 ")
  dflt=`./loc . "." $prefixexp/lib /usr/local/lib /usr/lib /lib`
  set dflt
  eval $prefixup
  ;;
 *)  dflt="$privlib/$archname";;
 esac
 ;;
*) dflt="$archlib";;
esac
cat <<EOM

$spackage contains architecture-dependent library files.  If you are
sharing libraries in a heterogeneous environment, you might store
these files in a separate location.  Otherwise, you can just include
them with the rest of the public library files.

EOM
fn=d+~
rp='Where do you want to put the public architecture-dependent libraries?'
. ./getfile
```

```
archlib="$ans"
archlibexp="$ansexp"

if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
private files reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installarchlib" in
 ") dflt=`echo $archlibexp | sed 's#^/afs/#/afs/.#'`;;
 *)
 dflt="$installarchlib";;
 esac
 fn=de~
 rp='Where will architecture-dependent library files be installed?'
 . ./getfile
 installarchlib="$ans"
else
 installarchlib="$archlibexp"
fi
if $test X"$archlib" = X"$privlib"; then
 d_archlib="$undef"
else
 d_archlib="$define"
fi
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/archlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setgrps.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setgrps.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:d_setgrps: Inlibc
?MAKE: -pick add $@ %<
?S:d_setgrps:
?S: This variable conditionally defines the HAS_SETGROUPS symbol, which
?S: indicates to the C program that the setgroups() routine is available
?S: to set the list of process groups.
?S:.
?C:HAS_SETGROUPS:
?C: This symbol, if defined, indicates that the setgroups() routine is
?C: available
 to set the list of process groups.  If unavailable, multiple
?C: groups are probably not supported.
?C:.
?H:#$d_setgrps HAS_SETGROUPS  /**/
?H:.
?LINT:set d_setgrps
: see if setgroups exists
set setgroups d_setgrps
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setgrps.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Extras.U,v$
?RCS:
?RCS: Copyright (c) 2001, Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:extras: Myread Oldconfig Setvar rm
?MAKE: -pick add $@ %<
?Y:TOP
?S:extras:
?S: This variable holds a list of extra modules to install.
?S:.
: See if we want extra modules installed
echo " "
case "$extras" in
") dflt='n';;
*) dflt='y';;
esac
cat <<EOM
Perl can be built with extra modules or bundles of modules which
will be fetched from the CPAN and installed alongside Perl.
```

```
Notice that you will need access to the CPAN; either via the Internet,
or a local copy, for example a CD-ROM or a local CPAN mirror.  (You will
be asked later to configure the CPAN.pm module which will in turn do
the installation of the rest of the extra modules or bundles.)

Notice also that if the modules require
 any external software such as
libraries and headers (the libz library and the zlib.h header for the
Compress::Zlib module, for example) you MUST have any such software
already installed, this configuration process will NOT install such
things for you.

If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp='Install any extra modules (y or n)?'
. ./myread
case "$ans" in
y|Y)
 cat <<EOM

Please list any extra modules or bundles to be installed from CPAN,
with spaces between the names.  The names can be in any format the
'install' command of CPAN.pm will understand.  (Answer 'none',
without the quotes, to install no extra modules or bundles.)
EOM
 rp='Extras?'
 dflt="$extras"
 . ./myread
 extras="$ans"
esac
case "$extras" in
"|'none')
 val=''
 $rm -f ../extras.lst
 ;;
*) echo "(Saving the list of extras for later...)"
 echo "$extras" > ../extras.lst
 val="'$extras'"
 ;;
esac
set extras
eval $setvar
echo " "
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/Extras.U

No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:perladmin: cf_email Oldconfig Myread cat
?MAKE: -pick add $@ %<
?Y:TOP
?S:perladmin:
?S: Electronic mail address of the perl5 administrator.
?S:.
: Ask e-mail of administrator
$cat <<EOM

If you or somebody else will be maintaining perl at your site, please
fill in the correct e-mail address here so that they may be contacted
if necessary. You may enter "none" for no administrator.

EOM
case "$perladmin" in
") dflt="$cf_email";;
*) dflt="$perladmin";;
esac
rp='Perl administrator e-mail address'
. ./myread
perladmin="$ans"
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/perladmin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strchr.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strchr.U,v $
?RCS: Revision 3.0.1.2  1993/10/16  13:49:20  ram
?RCS: patch12: added support for HAS_INDEX
?RCS: patch12: added magic for index() and rindex()
```

```
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:05:26  ram
?RCS: patch10: now only defines HAS_STRCHR, no macro remap of index (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:32  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strchr d_index: contains strings Setvar Myread Oldconfig
 Csym
?MAKE: -pick add $@ %<
?S:d_strchr:
?S: This variable conditionally defines HAS_STRCHR if strchr() and
?S: strrchr() are available for string searching.
?S:.
?S:d_index:
?S: This variable conditionally defines HAS_INDEX if index() and
?S: rindex() are available for string searching.
?S:.
?C:HAS_STRCHR:
?C: This symbol is defined to indicate that the strchr()/strrchr()
?C: functions are available for string searching. If not, try the
?C: index()/rindex() pair.
?C:.
?C:HAS_INDEX:
?C: This symbol is defined to indicate that the index()/rindex()
?C: functions are available for string searching.
?C:.
?H:#$d_strchr HAS_STRCHR /**/
?H:#$d_index HAS_INDEX /**/
?H:.
?M:index: HAS_INDEX
?M:#ifndef HAS_INDEX
?M:#ifndef index
?M:#define index strchr
?M:#endif
?M:#endif
?M:.
?M:rindex: HAS_INDEX
?M:#ifndef HAS_INDEX
?M:#ifndef rindex
?M:#define rindex strrchr
?M:#endif
?M:#endif
?M:.
?T:vali
?LINT:set d_strchr d_index
: index or strchr
echo " "
```

```
if set index val -f; eval $csym; $val; then
 if
 set strchr val -f d_strchr; eval $csym; $val; then
  if $contains strchr "$strings" >/dev/null 2>&1 ; then
?X: has index, strchr, and strchr in string header
   val="$define"
   vali="$undef"
   echo "strchr() found." >&4
  else
?X: has index, strchr, and no strchr in string header
   val="$undef"
   vali="$define"
   echo "index() found." >&4
  fi
 else
?X: has only index, no strchr, string header is a moot point
  val="$undef"
  vali="$define"
  echo "index() found." >&4
 fi
else
 if set strchr val -f d_strchr; eval $csym; $val; then
  val="$define"
  vali="$undef"
  echo "strchr() found." >&4
 else
  echo "No index() or strchr() found!" >&4
  val="$undef"
  vali="$undef"
 fi
fi
set d_strchr; eval $setvar
val="$vali"
set d_index; eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strchr.U
No license file was found, but licenses were detected in source scan.

?RCS: Copyright (c) 2014-2014, Karl Williamson & H.Merijn Brand
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:

```
?MAKE:d_wcsxfrm: Compile cat rm_try run Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_wcsxfrm:
?S: This variable conditionally defines the HAS_WCSXFRM symbol if the
?S: wcsxfrm() routine is available and can be used to compare wide
?S: character strings.
?S:.
?C:HAS_WCSXFRM:
?C: This symbol, if defined, indicates that the wcsxfrm routine is
?C: available to tranform a wide character string for wcscmp().
?C:.
?H:#$d_wcsxfrm HAS_WCSXFRM /**/
?H:.
?F:!try
?LINT: set d_wcsxfrm
: look for wcsxfrm
echo " "
$cat >try.c <<'EOCP'
#include
 <errno.h>
#include <wchar.h>
int main ()
{
   wchar_t dst[4], *src = L" ";
   errno = 0;
   return (wcsxfrm (dst, src, 1) ? errno ? errno : 0 : 1);
   }
EOCP
set try
?X: if $cc $ccflags $ldflags -o try try.c $libs >/dev/null 2>&1 ; then
val="$undef"
if eval $compile; then
   `$run ./try`
   case "$?" in
 0)  echo "A working wcsxfrm() found." >&4
     val="$define" ;;
 *)  echo "wcsxfrm() found, but it doesn't work" >&4
     ;;
 esac
else
   echo "wcsxfrm() NOT found." >&4
   fi
set d_wcsxfrm
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/perl/d_wcsxfrm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_memalign.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memalign.U,v $
?RCS:
?MAKE:d_memalign: Inlibc
?MAKE: -pick add $@ %<
?S:d_memalign:
?S: This variable conditionally defines the HAS_MEMALIGN symbol, which
?S: indicates to the C program that the memalign() routine is available.
?S:.
?C:HAS_MEMALIGN :
?C: This symbol, if defined, indicates that the memalign routine is
?C: available to allocate aligned memory.
?C:.
?H:#$d_memalign HAS_MEMALIGN  /**/
?H:.
?LINT:set d_memalign
: see if memalign exists
set
 memalign d_memalign
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_memalign.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_shmat.U,v 3.0.1.3 1995/07/25 14:04:23 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: of the source tree for dist 3.0.
?RCS:
```

```
?RCS: $Log: d_shmat.U,v $
?RCS: Revision 3.0.1.3  1995/07/25  14:04:23  ram
?RCS: patch56: use findhdr to find <sys/shm.h>, to get the right one (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:18:56  ram
?RCS: patch27: added new symbol HAS_SHMAT_PROTOTYPE (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:54:18  ram
?RCS: patch23: new Shmat_t symbol to declare return type of shmat()
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:18  ram
?RCS: Baseline for dist 3.0 netwide
 release.
?RCS:
?MAKE:d_shmat shmattype d_shmatprototype: Inlibc cat +cc +ccflags \
 rm cppstdin cppflags cppminus Findhdr Setvar contains
?MAKE: -pick add $@ %<
?S:d_shmat:
?S: This variable conditionally defines the HAS_SHMAT symbol, which
?S: indicates to the C program that the shmat() routine is available.
?S:.
?S:shmattype:
?S: This symbol contains the type of pointer returned by shmat().
?S: It can be 'void *' or 'char *'.
?S:.
?S:d_shmatprototype:
?S: This variable conditionally defines the HAS_SHMAT_PROTOTYPE
?S: symbol, which indicates that sys/shm.h has a prototype for
?S: shmat.
?S:.
?C:HAS_SHMAT:
?C: This symbol, if defined, indicates that the shmat() routine is
?C: available to attach a shared memory segment to the process space.
?C:.
?C:Shmat_t:
?C: This symbol holds the return type of the shmat() system call.
?C: Usually set to 'void *' or 'char *'.
?C:.
?C:HAS_SHMAT_PROTOTYPE:
?C: This symbol, if defined, indicates that the sys/shm.h includes
?C: a prototype for shmat().
  Otherwise, it is up to the program to
?C: guess one.  Shmat_t shmat(int, Shmat_t, int) is a good guess,
?C: but not always right so it should be emitted by the program only
?C: when HAS_SHMAT_PROTOTYPE is not defined to avoid conflicting defs.
?C:.
?H:#$d_shmat HAS_SHMAT  /**/
?H:#define Shmat_t $shmattype /**/
```

```
?H:#$d_shmatprototype HAS_SHMAT_PROTOTYPE /**/
?H:.
?LINT:set d_shmat d_shmatprototype
?T:xxx
: see if shmat exists
set shmat d_shmat
eval $inlibc
: see what shmat returns
case "$d_shmat" in
"$define")
 $cat >shmat.c <<'END'
#include <sys/shm.h>
void *shmat();
END
 if $cc $ccflags -c shmat.c >/dev/null 2>&1; then
  shmattype='void *'
 else
  shmattype='char *'
 fi
 echo "and it returns ($shmattype)." >&4
 : see if a prototype for shmat is available
 xxx=`./findhdr sys/shm.h`
 $cppstdin $cppflags $cppminus < $xxx > shmat.c 2>/dev/null
 if $contains 'shmat.*(' shmat.c >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 $rm -f shmat.[co]
 ;;
*)
 val="$undef"
 ;;
esac
set
 d_shmatprototype
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_shmat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setprotoent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_setprotoent_r setprotoent_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_setprotoent_r:
?S: This variable conditionally defines the HAS_SETPROTOENT_R symbol,
?S: which indicates to the C program that the setprotoent_r()
?S: routine is available.
?S:.
?S:setprotoent_r_proto:
?S: This variable encodes the prototype of setprotoent_r.
?S: It is zero if d_setprotoent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setprotoent_r
?S: is defined.
?S:.
?C:HAS_SETPROTOENT_R:
?C: This symbol, if defined, indicates that the setprotoent_r
 routine
?C: is available to setprotoent re-entrantly.
?C:.
?C:SETPROTOENT_R_PROTO:
?C: This symbol encodes the prototype of setprotoent_r.
?C: It is zero if d_setprotoent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setprotoent_r
?C: is defined.
?C:.
?H:#$d_setprotoent_r HAS_SETPROTOENT_R /**/
?H:#define SETPROTOENT_R_PROTO $setprotoent_r_proto /**/
?H:.
?T:try hdrs d_setprotoent_r_proto
: see if setprotoent_r exists
set setprotoent_r d_setprotoent_r
eval $inlibc
case "$d_setprotoent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_setprotoent_r_proto:$usethreads" in
 ":define") d_setprotoent_r_proto=define
  set d_setprotoent_r_proto setprotoent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_setprotoent_r_proto" in
 define)
 case "$setprotoent_r_proto" in
 "|0) try='int setprotoent_r(int, struct protoent_data*);'
```

```
 ./protochk "$extern_C $try" $hdrs && setprotoent_r_proto=I_ID ;;
 esac
 case "$setprotoent_r_proto"
 in
"|0) try='void setprotoent_r(int, struct protoent_data*);'
 ./protochk "$extern_C $try" $hdrs && setprotoent_r_proto=V_ID ;;
 esac
 case "$setprotoent_r_proto" in
"|0) d_setprotoent_r=undef
  setprotoent_r_proto=0
  echo "Disabling setprotoent_r, cannot determine prototype." >&4 ;;
 * ) case "$setprotoent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) setprotoent_r_proto="REENTRANT_PROTO_$setprotoent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "setprotoent_r has no prototype, not using it." >&4 ;;
  esac
  d_setprotoent_r=undef
  setprotoent_r_proto=0
  ;;
 esac
 ;;
*) setprotoent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_setprotoent_r.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS:
?MAKE:d_ptrdiff_t: Inlibc Setvar Compile rm_try cat
?MAKE: -pick add $@ %<
?S:d_ptrdiff_t:
?S: This symbol will be defined if the C compiler supports ptrdiff_t.
?S:.
?C:HAS_PTRDIFF_T:
```

```
?C: This symbol will be defined if the C compiler supports ptrdiff_t.
?C:.
?H:#$d_ptrdiff_t HAS_PTRDIFF_T  /**/
?H:.
?LINT:set d_ptrdiff_t
: check for ptrdiff_t
echo " "
echo "Checking to see if you have ptrdiff_t..." >&4
$cat >try.c <<EOCP
#include <stddef.h>
int main() { ptrdiff_t x = 7; }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have ptrdiff_t."
else
 val="$undef"
 echo "You do not have ptrdiff_t."
fi
$rm_try
set d_ptrdiff_t
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_ptrdiff_t.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gconvert.U,v 3.0.1.3 1997/02/28 15:33:38 ram Exp $
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_gconvert.U,v $
?RCS: Revision 3.0.1.3 1997/02/28  15:33:38  ram
?RCS: patch61: integrated new unit from perl5
?RCS:
?RCS: Revision 3.0.1.2 1995/07/25  13:55:59  ram
?RCS: patch56: improved comments about the Gconvert macro (ADO)
?RCS: patch56: force compile-link test since it may exist but be unusable (ADO)
```

```
?RCS:
?RCS: Revision 3.0.1.1 1994/10/29  16:12:51  ram
?RCS: patch36:
 created by ADO
?RCS:
?MAKE:d_Gconvert: \
 Compile cat Inlibc rm _o rm_try i_stdlib d_qgcvt run \
 uselongdouble d_longdbl d_PRIgldbl sPRIgldbl
?MAKE: -pick add $@ %<
?S:d_Gconvert:
?S: This variable holds what Gconvert is defined as to convert
?S: floating point numbers into strings.  By default, Configure
?S: sets this macro to use the first of gconvert, gcvt, or sprintf
?S: that pass sprintf-%g-like behavior tests.  If perl is using
?S: long doubles, the macro uses the first of the following
?S: functions that pass Configure's tests: qgcvt, sprintf (if
?S: Configure knows how to make sprintf format long doubles--see
?S: sPRIgldbl), gconvert, gcvt, and sprintf (casting to double).
?S: The gconvert_preference and gconvert_ld_preference variables
?S: can be used to alter Configure's preferences, for doubles and
?S: long doubles, respectively.  If present, they contain a
?S: space-separated list of one or more of the above function
?S: names in the order they should be tried.
?S:
?S: d_Gconvert
 may be set to override Configure with a platform-
?S: specific function.  If this function expects a double, a
?S: different value may need to be set by the uselongdouble.cbu
?S: call-back unit so that long doubles can be formatted without
?S: loss of precision.
?S:.
?C:Gconvert:
?C: This preprocessor macro is defined to convert a floating point
?C: number to a string without a trailing decimal point.  This
?C: emulates the behavior of sprintf("%g"), but is sometimes much more
?C: efficient.  If gconvert() is not available, but gcvt() drops the
?C: trailing decimal point, then gcvt() is used.  If all else fails,
?C: a macro using sprintf("%g") is used. Arguments for the Gconvert
?C: macro are: value, number of digits, whether trailing zeros should
?C: be retained, and the output buffer.
?C: The usual values are:
?C:  d_Gconvert='gconvert((x),(n),(t),(b))'
?C:  d_Gconvert='gcvt((x),(n),(b))'
?C:  d_Gconvert='sprintf((b),"%.*g",(n),(x))'
?C: The last two assume trailing zeros should
 not be kept.
?C:.
?H:#define Gconvert(x,n,t,b) $d_Gconvert
```

```
?H:.
?T: xxx_list xxx_convert xxx_ld_list
?F:!try
?LINT:extern gconvert_preference
?LINT:extern gconvert_ld_preference
: Check how to convert floats to strings.

if test "X$d_Gconvert" = X; then

echo " "
echo "Checking for an efficient way to convert floats to strings."
echo " " > try.c
case "$uselongdouble" in
"$define") echo "#define USE_LONG_DOUBLE" >>try.c ;;
esac
case "$d_longdbl" in
"$define") echo "#define HAS_LONG_DOUBLE" >>try.c ;;
esac
case "$d_PRIgldbl" in
"$define") echo "#define HAS_PRIgldbl"    >>try.c ;;
esac
$cat >>try.c <<EOP
#ifdef TRY_gconvert
#define Gconvert(x,n,t,b) gconvert((x),(n),(t),(b))
const char *myname = "gconvert";
#endif
#ifdef TRY_gcvt
#define Gconvert(x,n,t,b) gcvt((x),(n),(b))
const char *myname = "gcvt";
#endif
#ifdef TRY_qgcvt
#define Gconvert(x,n,t,b) qgcvt((x),(n),(b))
const char *myname = "qgcvt";
#define DOUBLETYPE long double
#endif
#ifdef TRY_sprintf
#if defined(USE_LONG_DOUBLE) &&
 defined(HAS_LONG_DOUBLE)
#ifdef HAS_PRIgldbl
#define Gconvert(x,n,t,b) sprintf((b),"%.*"$sPRIgldbl,(n),(x))
#else
#define Gconvert(x,n,t,b) sprintf((b),"%.*g",(n),(double)(x))
#endif
#else
#define Gconvert(x,n,t,b) sprintf((b),"%.*g",(n),(x))
#endif
const char *myname = "sprintf";
#endif
```

```
#ifndef DOUBLETYPE
#if defined(USE_LONG_DOUBLE) && defined(HAS_LONG_DOUBLE)
#define DOUBLETYPE long double
#else
#define DOUBLETYPE double
#endif
#endif

#include <stdio.h>

#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <string.h>

void checkit(const char *expect, char *got)
{
   if (strcmp(expect, got)) {
  printf("%s oddity:  Expected %s, got %s\n",
   myname, expect, got);
  exit(1);
 }
}

void lencheck(int expect, int got)
{
   if (expect != got) {
  printf("%s length mismatch:  Expected %d, got %d\n",
   myname, expect, got);
  exit(1);
 }
}

int main()
{
 char buf[64];
 buf[63] = '\0';

 /* This must be 1st test on (which?) platform */
 /* Alan Burlison <AlanBurlsin@unn.unisys.com>
 */
 Gconvert((DOUBLETYPE)0.1, 8, 0, buf);
 checkit("0.1", buf);

 Gconvert((DOUBLETYPE)0.01, 8, 0, buf);
 checkit("0.01", buf);
```

```
Gconvert((DOUBLETYPE)0.001, 8, 0, buf);
checkit("0.001", buf);

Gconvert((DOUBLETYPE)0.0001, 8, 0, buf);
checkit("0.0001", buf);

Gconvert((DOUBLETYPE)0.00009, 8, 0, buf);
if (strlen(buf) > 5)
   checkit("9e-005", buf); /* for Microsoft ?? */
else
   checkit("9e-05", buf);

Gconvert((DOUBLETYPE)1.0, 8, 0, buf);
checkit("1", buf);

Gconvert((DOUBLETYPE)1.1, 8, 0, buf);
checkit("1.1", buf);

Gconvert((DOUBLETYPE)1.01, 8, 0, buf);
checkit("1.01", buf);

Gconvert((DOUBLETYPE)1.001, 8, 0, buf);
checkit("1.001", buf);

Gconvert((DOUBLETYPE)1.0001, 8, 0, buf);
checkit("1.0001", buf);

Gconvert((DOUBLETYPE)1.00001, 8, 0, buf);
checkit("1.00001", buf);

Gconvert((DOUBLETYPE)1.000001, 8, 0, buf);
checkit("1.000001", buf);

Gconvert((DOUBLETYPE)0.0, 8, 0, buf);
checkit("0", buf);

Gconvert((DOUBLETYPE)-1.0, 8, 0, buf);
checkit("-1",
buf);

/* Some Linux gcvt's give 1.e+5 here. */
Gconvert((DOUBLETYPE)100000.0, 8, 0, buf);
checkit("100000", buf);

/* Some Linux gcvt's give -1.e+5 here. */
Gconvert((DOUBLETYPE)-100000.0, 8, 0, buf);
checkit("-100000", buf);
```

```
 Gconvert((DOUBLETYPE)123.456, 8, 0, buf);
 checkit("123.456", buf);

 /* Testing of 1e+129 in bigintpm.t must not get extra '.' here. */
 Gconvert((DOUBLETYPE)1e34, 8, 0, buf);
 /* 34 should be enough to scare even long double
  * places into using the e notation. */
 if (strlen(buf) > 5)
     checkit("1e+034", buf); /* for Microsoft */
 else
     checkit("1e+34", buf);

 /* Test for an Ubuntu/Debian bug in gcvt and qgcvt. See:        *
  * https://bugs.launchpad.net/ubuntu/+source/glibc/+bug/1899553 */

 Gconvert((DOUBLETYPE)0.4, 53, 0, buf);
 lencheck(55, (int)strlen(buf));

 /* For Perl, if you add additional tests here, also add them to
  * t/base/num.t for benefit of platforms not using Configure or
  * overriding d_Gconvert */

 exit(0);
}
EOP
?X:
 List of order in which to search for functions.
?X: Usual order of efficiency is gconvert gcvt sprintf
?X: If a hint file sets a d_Gconvert="gconvert" or "gcvt" or "sprintf",
?X: then that is taken as a hint for which function to try first.
?X: (e.g. that function may be in a problematic /usr/ucblib library, and
?X: the user may or may not choose to use -lucb stuff.)
?X: Any other hint file (or previous config.sh) setting is left intact.
: first add preferred functions to our list
xxx_list=""
for xxx_convert in $gconvert_preference; do
   case $xxx_convert in
   gcvt|gconvert|sprintf) xxx_list="$xxx_list $xxx_convert" ;;
   *) echo "Discarding unrecognized gconvert_preference $xxx_convert" >&4 ;;
   esac
done
: then add any others
for xxx_convert in gconvert gcvt sprintf; do
   case "$xxx_list" in
   *$xxx_convert*) ;;
   *) xxx_list="$xxx_list $xxx_convert" ;;
   esac
```

```
done

case "$d_longdbl$uselongdouble" in
"$define$define")
  : again, add preferred functions to our
 list first
  xxx_ld_list=""
  for xxx_convert in $gconvert_ld_preference; do
      case $xxx_convert in
      qgcvt|gcvt|gconvert|sprintf) xxx_ld_list="$xxx_ld_list $xxx_convert" ;;
      *) echo "Discarding unrecognized gconvert_ld_preference $xxx_convert" ;;
      esac
  done
  : then add qgcvt, sprintf--then, in xxx_list order, gconvert and gcvt
  for xxx_convert in qgcvt sprintf $xxx_list; do
      case "$xxx_ld_list" in
      $xxx_convert*|*" $xxx_convert"*) ;;
      *) xxx_ld_list="$xxx_ld_list $xxx_convert" ;;
      esac
  done
  : if sprintf cannot do long doubles, move it to the end
  if test "$d_PRIgldbl" != "$define"; then
      xxx_ld_list="`echo $xxx_ld_list|sed s/sprintf//` sprintf"
  fi
  : if no qgcvt, remove it
  if test "$d_qgcvt" != "$define"; then
      xxx_ld_list="`echo $xxx_ld_list|sed s/qgcvt//`"
  fi
  : use the ld_list
  xxx_list="$xxx_ld_list"
  ;;
esac

for xxx_convert in $xxx_list; do
 echo "Trying $xxx_convert..."
?X:
 Do NOT use $rm_try here, as we need to keep try.c
 $rm -f try try$_o core
 set try -DTRY_$xxx_convert
 if eval $compile; then
  echo "$xxx_convert() found." >&4
  if $run ./try; then
   echo "I'll use $xxx_convert to convert floats into a string." >&4
   break;
  else
   echo "...But $xxx_convert didn't work as I expected."
   xxx_convert=''
  fi
```

```
 else
  echo "$xxx_convert NOT found." >&4
  xxx_convert="
 fi
done

if test X$xxx_convert = X; then
   echo "*** WHOA THERE!!! ***" >&4
   echo "None of ($xxx_list)  seemed to work properly.  I'll use sprintf." >&4
   xxx_convert=sprintf
fi

case "$xxx_convert" in
gconvert) d_Gconvert='gconvert((x),(n),(t),(b))' ;;
gcvt) d_Gconvert='gcvt((x),(n),(b))' ;;
qgcvt) d_Gconvert='qgcvt((x),(n),(b))' ;;
*) case "$uselongdouble$d_longdbl$d_PRIgldbl" in
  "$define$define$define")
     d_Gconvert="sprintf((b),\"%.*\"$sPRIgldbl,(n),(x))" ;;
  "$define$define$undef")
     d_Gconvert='sprintf((b),"%.*g",(n),(double)(x))' ;;
  *) d_Gconvert='sprintf((b),"%.*g",(n),(x))'
 ;;
  esac
  ;;
esac

fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_gconvert.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_setproctitle: Inlibc
?MAKE: -pick add $@ %<
?S:d_setproctitle:
?S: This variable conditionally defines the HAS_SETPROCTITLE symbol,
?S: which indicates to the C program that the setproctitle() routine
?S: is available.
```

```
?S:.
?C:HAS_SETPROCTITLE:
?C: This symbol, if defined, indicates that the setproctitle routine is
?C: available to set process title.
?C:.
?H:#$d_setproctitle HAS_SETPROCTITLE  /**/
?H:.
?LINT:set d_setproctitle
: see if setproctitle exists
set setproctitle d_setproctitle
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_setproctitle.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setruid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setruid.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setruid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setruid:
?S: This variable conditionally defines the HAS_SETRUID symbol, which
?S: indicates to the C program that the setruid() routine is available
?S: to change the real uid of the current program.
?S:.
?C:HAS_SETRUID (SETRUID):
?C: This symbol, if defined, indicates that the setruid
 routine is available
?C: to change the real uid of the current program.
?C:.
?H:#$d_setruid HAS_SETRUID  /**/
?H:.
?LINT:set d_setruid
: see if setruid exists
set setruid d_setruid
```

```
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setruid.U
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```
?RCS: $Id: prefshell.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: prefshell.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:28:13  ram
?RCS: patch36: added SHELL temporary since metalint now sees ${SHELL}
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:11:47  ram
?RCS: patch10: non-portable var substitution was used (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:34  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:prefshell: cat package Getfile Oldconfig ksh csh bash
?MAKE: -pick add $@ %<
?S:prefshell:
?S: This
 variable contains the eventual value of the PREFSHELL symbol,
?S: which contains the full name of the preferred user shell on this
?S: system.  Usual values are /bin/csh, /bin/ksh, /bin/sh.
?S:.
?C:PREFSHELL:
?C: This symbol contains the full name of the preferred user shell on this
?C: system.  Usual values are /bin/csh, /bin/ksh, /bin/sh.
?C:.
?H:#define PREFSHELL "$prefshell"  /**/
?H:.
?T:SHELL
: find out which shell people like to use most
case "$prefshell" in
")
 case "$ksh $bash $csh" in
 */ksh*) dflt="$ksh" ;;
 */bash*) dflt="$bash" ;;
```

```
 */csh*) dflt="$csh" ;;
 *) dflt='/bin/sh' ;;
 esac
 ;;
*)  dflt="$prefshell";;
esac
?X: Some shells (Ultrix) do not understand ${SHELL:-/bin/sh}, sigh!
$cat <<EOM

Give the full path name of the shell most people like to use on your system.
This will be used by $package whenever the user wants to get a shell
escape (for instance) and is not necessarily the same as the shell you are
currently using (${SHELL-/bin/sh}).

EOM
fn=f/~
rp='Preferred
 shell to be used?'
. ./getfile
prefshell=$ans
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/prefshell.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endhent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_endhent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_endhent: Inlibc
?MAKE: -pick add $@ %<
?S:d_endhent:
?S: This variable conditionally defines HAS_ENDHOSTENT if endhostent() is
?S: available to close whatever was being used for host queries.
?S:.
?C:HAS_ENDHOSTENT:
?C: This symbol, if defined, indicates that the endhostent() routine is
```

```
?C: available to close whatever was being used for host
 queries.
?C:.
?H:#$d_endhent HAS_ENDHOSTENT  /**/
?H:.
?LINT:set d_endhent
: see if endhostent exists
set endhostent d_endhent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835416_1702991033.8914971/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_endhent.U

1.1975 perl-modules-5.36 5.36.0-7+deb12u1

1.1975.1 Available under license :

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```
?RCS: $Id: d_fchown.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_fchown.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_fchown: Inlibc
?MAKE: -pick add $@ %<
?S:d_fchown:
?S: This variable conditionally defines the HAS_FCHOWN symbol, which
?S: indicates to the C program that the fchown() routine is available
?S: to change ownership of opened files.
?S:.
?C:HAS_FCHOWN (FCHOWN):
?C: This symbol, if defined, indicates that the fchown routine is available
?C: to
 change ownership of opened files.  If unavailable, use chown().
?C:.
?H:#$d_fchown HAS_FCHOWN  /**/
?H:.
```

```
?LINT:set d_fchown
: see if fchown exists
set fchown d_fchown
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_fchown.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_stat.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_stat.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:28  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_stat: Inlibc
?MAKE: -pick add $@ %<
?S:d_stat:
?S: This variable conditionally defines HAS_STAT if stat() is
?S: available to get file status.
?S:.
?C:HAS_STAT (STAT):
?C: This symbol, if defined, indicates that the stat routine is
?C: available to get file status.
?C:.
?H:#$d_stat HAS_STAT /**/
?H:.
?LINT:set d_stat
: see if stat exists
set
 stat d_stat
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_stat.U
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```
?RCS: $Id$
```

```
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_voidsig.U,v $
?RCS: Revision 3.0.1.3  1995/05/12  12:12:46  ram
?RCS: patch54: made cppflags dependency optional
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:20:35  ram
?RCS: patch32: now sets signal_t only once d_voidsig is known (WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:59:54  ram
?RCS: patch30: now properly sets signal_t when re-using previous value
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_voidsig signal_t: rm contains
 cppstdin cppminus +cppflags test Myread \
 Oldconfig Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_voidsig:
?S: This variable conditionally defines VOIDSIG if this system
?S: declares "void (*signal(...))()" in signal.h.  The old way was to
?S: declare it as "int (*signal(...))()".
?S:.
?S:signal_t:
?S: This variable holds the type of the signal handler (void or int).
?S:.
?C:VOIDSIG:
?C: This symbol is defined if this system declares "void (*signal(...))()" in
?C: signal.h.  The old way was to declare it as "int (*signal(...))()".  It
?C: is up to the package author to declare things correctly based on the
?C: symbol.
?C:.
?C:Signal_t (SIGNAL_T):
?C: This symbol's value is either "void" or "int", corresponding to the
?C: appropriate return type of a signal handler.  Thus, you can declare
?C: a signal handler using "Signal_t (*handler)()", and define the
?C: handler using "Signal_t handler(sig)".
?C:.
?H:#$d_voidsig VOIDSIG  /**/
?H:#define Signal_t $signal_t /* Signal handler's return
```

```
 type */
?H:.
?T:xxx
?LINT:set d_voidsig
: see if signal is declared as pointer to function returning int or void
echo " "
xxx=`./findhdr signal.h`
$test "$xxx" && $cppstdin $cppminus $cppflags < $xxx >$$.tmp 2>/dev/null
if $contains 'int.*\*[  ]*signal' $$.tmp >/dev/null 2>&1 ; then
 echo "You have int (*signal())() instead of void." >&4
 val="$undef"
elif $contains 'void.*\*[  ]*signal' $$.tmp >/dev/null 2>&1 ; then
 echo "You have void (*signal())() instead of int." >&4
 val="$define"
elif $contains 'extern[  ]*[(\*]*signal' $$.tmp >/dev/null 2>&1 ; then
 echo "You have int (*signal())() instead of void." >&4
 val="$undef"
else
 case "$d_voidsig" in
 ")
 echo "I can't determine whether signal handler returns void or int..." >&4
  dflt=void
  rp="What type does your signal handler return?"
  . ./myread
  case "$ans" in
  v*) val="$define";;
  *) val="$undef";;
  esac;;
 "$define")
  echo "As you already told me, signal handler returns void." >&4;;
 *)
  echo "As you already told
 me, signal handler returns int." >&4;;
 esac
fi
set d_voidsig
eval $setvar
case "$d_voidsig" in
"$define") signal_t="void";;
*) signal_t="int";;
esac
$rm -f $$.tmp
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_voidsig.U
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```
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_pthread: Inhdr
?MAKE: -pick add $@ %<
?S:i_pthread:
?S: This variable conditionally defines the I_PTHREAD symbol,
?S: and indicates whether a C program should include <pthread.h>.
?S:.
?C:I_PTHREAD:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <pthread.h>.
?C:.
?H:#$i_pthread   I_PTHREAD /**/
?H:.
?LINT:set i_pthread
: see if POSIX threads are available
set pthread.h i_pthread
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/i_pthread.U
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```
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?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_lseekproto: Hasproto i_systypes i_unistd
?MAKE: -pick add $@ %<
?S:d_lseekproto:
?S: This variable conditionally defines the HAS_LSEEK_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the lseek() function.  Otherwise, it is
```

```
?S: up to the program to supply one.
?S:.
?C:HAS_LSEEK_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the lseek() function.  Otherwise, it is up
?C: to the program to supply one.  A good guess is
?C:  extern
 off_t lseek(int, off_t, int);
?C:.
?H:#$d_lseekproto HAS_LSEEK_PROTO /**/
?H:.
?LINT:set d_lseekproto
: see if prototype for lseek is available
echo " "
set d_lseekproto lseek $i_systypes sys/types.h $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/d_lseekproto.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
?RCS: Copyright (c) 2019 Karl Williamson
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?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_towupper: Inlibc
?MAKE: -pick add $@ %<
?S:d_towupper:
?S: This variable conditionally defines the HAS_TOWUPPER symbol, which
?S: indicates to the C program that the towupper() routine is available.
?S:.
?C:HAS_TOWUPPER:
?C: This symbol, if defined, indicates that the towupper () routine is
?C: available to do case conversion.
?C:.
?H:#$d_towupper HAS_TOWUPPER  /**/
?H:.
?LINT:set d_towupper
: see if towupper exists
set towupper d_towupper
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/perl/d_towupper.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_setlocale d_setlocale_accepts_any_locale_name d_has_C_UTF8: \
 cat Compile run rm_try i_locale i_wctype d_towupper Setvar Myread
?MAKE: -pick add $@ %<
?S:d_has_C_UTF8:
?S: This variable is set to either "true" or "false" depending on
?S: whether the compilation system supports the C.UTF-8 locale.
?S:.
?S:d_setlocale:
?S: This variable conditionally defines HAS_SETLOCALE if setlocale() is
?S: available to handle locale-specific ctype implementations.
?S:.
?S:d_setlocale_accepts_any_locale_name:
?S: This
 variable conditionally defines SETLOCALE_ACCEPTS_ANY_LOCALE_NAME
?S: if setlocale() accepts any locale name.
?S:.
?C:HAS_SETLOCALE:
?C: This symbol, if defined, indicates that the setlocale routine is
?C: available to handle locale-specific ctype implementations.
?C:.
?C:SETLOCALE_ACCEPTS_ANY_LOCALE_NAME:
?C: This symbol, if defined, indicates that the setlocale routine is
?C: available and it accepts any input locale name as valid.
?C:.
?H:#$d_setlocale HAS_SETLOCALE /**/
?H:#$d_setlocale_accepts_any_locale_name SETLOCALE_ACCEPTS_ANY_LOCALE_NAME /**/
?H:.
?F:!try
?T:LC_CTYPE c_utf8_locale
: check for setlocale function and behavior
case "$d_setlocale" in
")
$cat >&4 <<EOM

Checking to see if you have setlocale() and its behavior
EOM
```

```
$cat >try.c <<EOCP
#include <stdlib.h>
#include <string.h>
#$i_locale I_LOCALE
#ifdef I_LOCALE
#  include <locale.h>
#endif
#$i_wctype I_WCTYPE
#ifdef I_WCTYPE
#  include <wctype.h>
#endif

int main() {
   const char * invalid_name
 = "\a";   /* This is really invalid! */
   int accepts_any_locale_name = 0;
   int has_C_UTF8 = 0;
   unsigned char bad_setlocale = 255;

   /* If LC_CTYPE isn't defined the compilation will fail, and locales will be
    * disabled.  It's hard to imagine an instance where meaningful locale
    * handling could be done without LC_CTYPE */
   const char *  name = setlocale(LC_CTYPE, "C");

   if (name == NULL || strcmp(name, "C") != 0) {
       exit(bad_setlocale);
   }

   name = setlocale(LC_CTYPE, invalid_name);
   if (name != NULL) {

       /* Let it pass if it accepts the name but gives back one of the C
        * locales */
       if (strcmp(name, "C") != 0 && strcmp(name, "C.UTF-8") != 0) {
           accepts_any_locale_name = 1;
       }
   }

   name = setlocale(LC_CTYPE, "C.UTF-8");
   if (name != NULL) {
       unsigned char y_with_diaeresis = ('A' == 193) ? 0xDF : 0xFF;

#$d_towupper HAS_TOWUPPER
#ifdef HAS_TOWUPPER

       /* We assume that if
 the machine doesn't have the C99 towupper, it
        * doesn't have C.UTF-8, even if we successfully changed locales to
```

```
     * include it.  This seems safer even on platforms that didn't accept
     * the really invalid name */

    if (towupper(y_with_diaeresis) == 0x178) {
        has_C_UTF8 = 1;
    }

#endif

  }

#if 0

  /* Currently unused code to determine if LC_ALL with disparate values uses
   * category = value pairs or positional, and to determine the separator
   * between the categories.  We could add code so that if the separator were
   * > '9', we subtract 10; similarly for 'Z' and 'z', and then just about
   * every possible ASCII separator would fit in the 5 bits available in the
   * exit code.  This would not be true in EBCDIC.  And then if LC_ALL is
   * positional, we probably would want to know the order of the categories.
   * Using a file between the C program and the shell script would really be
   * require to do that
 */
#ifdef LC_ALL

  unsigned char min_separator = ' ' - 1;
  unsigned char separator = min_separator;
  int uses_name_value_pair_names = 0;

  name = setlocale(LC_ALL, "C");
  if (name == NULL || strcmp(name, "C") != 0) {
      exit(bad_setlocale);
  }

  if (has_C_UTF8) {
      char * pos;

      name = setlocale(LC_CTYPE, "C.UTF-8");
      if (name == NULL) {
          exit(bad_setlocale);
      }
      name = setlocale(LC_ALL, NULL);
      if (name == NULL) {
          exit(bad_setlocale);
      }

      pos = strstr(name, "LC_CTYPE" "=C.UTF-8");
      if (pos != NULL) {
```

```
            uses_name_value_pair_names = 1;
            if (pos == name) {
                separator = name[sizeof("LC_CTYPE=C.UTF-8") - 1];
            }
            else {
                separator = *(pos - 1);
            }
        }
        else {
            pos = strstr(name, "C.UTF-8");
            if (pos == NULL) {
                /* bad */
            }

  else if (pos == name) {
                separator = name[sizeof("C.UTF-8") - 1];
            }
            else {
                separator = *(pos - 1);
            }
        }
    }

#endif
#endif

    exit( 0 /* (separator - min_separator) << 3
        | uses_name_value_pair_names      << 2
          */
        | has_C_UTF8                      << 1
        | accepts_any_locale_name);

}
EOCP
val=
set d_setlocale
eval $setvar
case $d_setlocale in
    $undef) d_setlocale_accepts_any_locale_name="$undef"
            d_has_C_UTF8="false"
            ;;
    *) set try
       if eval $compile; then
           echo "Your system has setlocale()..." >&4
           $run ./try
           case $? in
               0) echo "and it seems sane; you don't have a C.UTF-8 locale" >&4
                  d_setlocale="$define"
```

```
            d_setlocale_accepts_any_locale_name="$undef"
            d_has_C_UTF8="false"
            ;;
          1) echo "and it seems sane, but accepts
any locale name as valid" >&4
            d_setlocale="$define"
            d_setlocale_accepts_any_locale_name="$define"
            d_has_C_UTF8="false"
            ;;
          2) echo "and it seems sane; you have a C.UTF-8 locale" >&4
            d_setlocale="$define"
            d_setlocale_accepts_any_locale_name="$undef"
            d_has_C_UTF8="true"
            ;;
          3) echo "and it seems sane, but accepts any locale name as valid" >&4
            d_setlocale="$define"
            d_setlocale_accepts_any_locale_name="$define"
            d_has_C_UTF8="true"
            ;;
          *) echo "but it doesn't seem to work, so we won't use it." >&4
            d_setlocale="$undef"
            d_setlocale_accepts_any_locale_name="$undef"
            d_has_C_UTF8="false"
            ;;
        esac
      else
        echo "your system does not have setlocale()"
>&4
        d_setlocale="$undef"
        d_setlocale_accepts_any_locale_name="$undef"
        d_has_C_UTF8="false"
      fi
esac
$rm_try
;;
*) val="$d_setlocale"
  set d_setlocale
  eval $setvar
  case "$d_setlocale" in
    $undef) echo "There may be other ways to set the locale on your system, so we need to ask:" >&4
    ;;
  esac
  rp="Does your system have the C.UTF-8 locale?"
  dflt=n
  . ./myread
  case "$ans" in
    [Yy]*) d_has_C_UTF8="true"
          c_utf8_locale=" or C.UTF-8"
```

```
            ;;
        *)    d_has_C_UTF8="false"
            c_utf8_locale=""
            ;;
    esac
    case "$d_setlocale" in
        $define)
            rp="When you set your locale to something besides C$c_utf8_locale, does it do so, or just pretend to?" >&4
            dflt=n
            . ./myread
            case "$ans" in
                true|[Yy]*)
      d_setlocale_accepts_any_locale_name="$undef"
      ;;
    *) d_setlocale_accepts_any_locale_name="$define"

    ;;
            esac
            ;;
        *) d_setlocale_accepts_any_locale_name="$undef"
     ;;
    esac
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_setlocale.U
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```
?RCS: $Id: d_ulimit.U 1 2006-08-24 12:32:52Z rmanfredi $
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_ulimit.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_ulimit: Inlibc
?MAKE: -pick add $@ %<
?S:d_ulimit:
?S: This variable conditionally defines HAS_ULIMIT if ulimit() is
?S: available to get the user limits.
```

```
?S:.
?C:HAS_ULIMIT (ULIMIT):
?C: This symbol, if defined, indicates that the ulimit system call is
?C: available to get the user limits.
?C:.
?H:#$d_ulimit HAS_ULIMIT  /**/
?H:.
?LINT:set
 d_ulimit
: see if ulimit exists
set ulimit d_ulimit
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_ulimit.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: netdbtype.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
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?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: netdbtype.U,v $
?RCS:
?MAKE:netdb_host_type netdb_hlen_type netdb_name_type netdb_net_type: \
 Protochk Oldconfig Myread cat \
 d_gethbyaddr d_gethbyname d_getnbyaddr \
 i_niin i_netdb i_unistd d_socket sizetype extern_C
?MAKE: -pick add $@ %<
?S:netdb_host_type:
?S: This variable holds the type used for the 1st argument to
?S: gethostbyaddr().  Usually, this is char * or void *,  possibly
?S: with or without a const prefix.
?S: This is only useful if you have gethostbyaddr(), naturally.
?S:.
?S:netdb_hlen_type:
?S: This variable holds the type used for the 2nd argument to
?S: gethostbyaddr().  Usually,
 this is int or size_t or unsigned.
?S: This is only useful if you have gethostbyaddr(), naturally.
?S:.
?S:netdb_name_type:
?S: This variable holds the type used for the argument to
```

```
?S: gethostbyname().  Usually, this is char * or const char *.
?S: This is only useful if you have gethostbyname(), naturally.
?S:.
?S:netdb_net_type:
?S: This variable holds the type used for the 1st argument to
?S: getnetbyaddr().  Usually, this is int or long.
?S: This is only useful if you have getnetbyaddr(), naturally.
?S:.
?C:Netdb_host_t:
?C: This symbol holds the type used for the 1st argument
?C: to gethostbyaddr().
?C:.
?C:Netdb_hlen_t:
?C: This symbol holds the type used for the 2nd argument
?C: to gethostbyaddr().
?C:.
?C:Netdb_name_t:
?C: This symbol holds the type used for the argument to
?C: gethostbyname().
?C:.
?C:Netdb_net_t:
?C: This symbol holds the type used for the 1st argument to
?C: getnetbyaddr().
?C:.
?H:#define Netdb_host_t  $netdb_host_type /**/
?H:#define Netdb_hlen_t  $netdb_hlen_type
 /**/
?H:#define Netdb_name_t  $netdb_name_type /**/
?H:#define Netdb_net_t  $netdb_net_type /**/
?H:.
?T:xxx yyy try hdrs
@if netdb_host_type || Netdb_host_t || netdb_hlen_type || Netdb_hlen_t
: check for type of arguments to gethostbyaddr.
if test "X$netdb_host_type" = X -o "X$netdb_hlen_type" = X; then
 case "$d_gethbyaddr" in
 $define)
  $cat <<EOM

Checking to see what type of arguments are accepted by gethostbyaddr().
EOM
  hdrs="$define sys/types.h
   $d_socket sys/socket.h
   $i_niin netinet/in.h
   $i_netdb netdb.h
   $i_unistd unistd.h"
  : The first arg can 'char *' or 'void *'
  : The second arg is some of integral type
  for xxx in in_addr_t 'const void *' 'const char *' 'void *' 'char *'; do
```

```
  for yyy in size_t long int; do
   case "$netdb_host_type" in
   ") try="$extern_C struct hostent *gethostbyaddr($xxx, $yyy, int);"
    if ./protochk "$try" $hdrs; then
     echo "Your system accepts $xxx for the first arg."
     echo "...and $yyy for the second arg."
     netdb_host_type="$xxx"
     netdb_hlen_type="$yyy"
    fi
    ;;
   esac
  done
 done
 :
In case none of those worked, prompt the user.
 case "$netdb_host_type" in
 ") rp='What is the type for the 1st argument to gethostbyaddr?'
  dflt='char *'
  . ./myread
  netdb_host_type=$ans
  rp='What is the type for the 2nd argument to gethostbyaddr?'
  dflt="$sizetype"
  . ./myread
  netdb_hlen_type=$ans
  ;;
 esac
 ;;
*) : no gethostbyaddr, so pick harmless defaults
 netdb_host_type='char *'
 netdb_hlen_type="$sizetype"
 ;;
esac
# Remove the "const" if needed. -- but then we'll have a
# prototype clash!
# netdb_host_type=`echo "$netdb_host_type" | sed 's/^const //'`
fi
@end

@if netdb_name_type || Netdb_name_t
: check for type of argument to gethostbyname.
if test "X$netdb_name_type" = X ; then
 case "$d_gethbyname" in
 $define)
  $cat <<EOM

Checking to see what type of argument is accepted by gethostbyname().
EOM
  hdrs="$define sys/types.h
```

```
  $d_socket sys/socket.h
  $i_niin
 netinet/in.h
  $i_netdb netdb.h
  $i_unistd unistd.h"
 for xxx in "const char *" "char *"; do
  case "$netdb_name_type" in
  ") try="$extern_C struct hostent *gethostbyname($xxx);"
   if ./protochk "$try" $hdrs; then
    echo "Your system accepts $xxx."
    netdb_name_type="$xxx"
   fi
   ;;
  esac
 done
 : In case none of those worked, prompt the user.
 case "$netdb_name_type" in
 ") rp='What is the type for the 1st argument to gethostbyname?'
  dflt='char *'
  . ./myread
  netdb_name_type=$ans
  ;;
 esac
 ;;
 *) : no gethostbyname, so pick harmless default
  netdb_name_type='char *'
  ;;
 esac
fi
@end

@if netdb_net_type || Netdb_net_t
: check for type of 1st argument to getnetbyaddr.
if test "X$netdb_net_type" = X ; then
 case "$d_getnbyaddr" in
 $define)
  $cat <<EOM

Checking to see what type of 1st argument is accepted by getnetbyaddr().
EOM
  hdrs="$define sys/types.h
   $d_socket sys/socket.h
   $i_niin netinet/in.h
   $i_netdb netdb.h
   $i_unistd
 unistd.h"
  for xxx in in_addr_t "unsigned long" long "unsigned int" int; do
   case "$netdb_net_type" in
```

```
   ") try="$extern_C struct netent *getnetbyaddr($xxx, int);"
    if ./protochk "$try" $hdrs; then
     echo "Your system accepts $xxx."
     netdb_net_type="$xxx"
    fi
    ;;
   esac
  done
  : In case none of those worked, prompt the user.
  case "$netdb_net_type" in
  ") rp='What is the type for the 1st argument to getnetbyaddr?'
   dflt='long'
   . ./myread
   netdb_net_type=$ans
   ;;
  esac
  ;;
 *) : no getnetbyaddr, so pick harmless default
  netdb_net_type='long'
  ;;
 esac
fi
@end
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/netdbtype.U
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```
?RCS: $Id: d_setlocale_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_setlocale_r setlocale_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_locale extern_C
?MAKE: -pick add $@ %<
?S:d_setlocale_r:
?S: This variable conditionally defines the HAS_SETLOCALE_R symbol,
?S: which indicates to the C program that the setlocale_r()
?S: routine is available.
?S:.
?S:setlocale_r_proto:
?S: This variable encodes the prototype of setlocale_r.
?S: It is zero if d_setlocale_r is undef, and one of the
```

```
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setlocale_r
?S: is defined.
?S:.
?C:HAS_SETLOCALE_R:
?C: This symbol, if defined, indicates that the setlocale_r routine
?C: is
 available to setlocale re-entrantly.
?C:.
?C:SETLOCALE_R_PROTO:
?C: This symbol encodes the prototype of setlocale_r.
?C: It is zero if d_setlocale_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setlocale_r
?C: is defined.
?C:.
?H:#$d_setlocale_r HAS_SETLOCALE_R /**/
?H:#define SETLOCALE_R_PROTO $setlocale_r_proto /**/
?H:.
?T:try hdrs d_setlocale_r_proto
: see if setlocale_r exists
set setlocale_r d_setlocale_r
eval $inlibc
case "$d_setlocale_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_locale locale.h"
 case "$d_setlocale_r_proto:$usethreads" in
 ":define") d_setlocale_r_proto=define
  set d_setlocale_r_proto setlocale_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_setlocale_r_proto" in
 define)
 case "$setlocale_r_proto" in
 "|0) try='int setlocale_r(int, const char*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && setlocale_r_proto=I_ICBI ;;
 esac
 case "$setlocale_r_proto" in
 "|0) d_setlocale_r=undef
  setlocale_r_proto=0
  echo
 "Disabling setlocale_r, cannot determine prototype." >&4 ;;
 * ) case "$setlocale_r_proto" in
  REENTRANT_PROTO*) ;;
  *) setlocale_r_proto="REENTRANT_PROTO_$setlocale_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
```

```
 *) case "$usethreads" in
  define) echo "setlocale_r has no prototype, not using it." >&4 ;;
  esac
  d_setlocale_r=undef
  setlocale_r_proto=0
  ;;
 esac
 ;;
*) setlocale_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_setlocale_r.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: lseektype.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:30:10  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lseektype: Myread Typedef
?MAKE: -pick add $@ %<
?S:lseektype:
?S: This variable defines lseektype to be something like off_t, long,
?S: or whatever type is used to declare lseek offset's type in the
?S: kernel (which also appears to be lseek's return type).
?S:.
?C:Off_t
 (LSEEKTYPE):
?C: This symbol holds the type used to declare offsets in the kernel.
?C: It can be int, long, off_t, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Off_t $lseektype  /* <offset> type */
```

```
?H:.
: see what type lseek is declared as in the kernel
set off_t lseektype long stdio.h sys/types.h
eval $typedef
echo " "
dflt="$lseektype"
rp="What type is lseek's offset on this system declared as?"
. ./myread
lseektype="$ans"
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/lseektype.U
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```
?RCS: $Id: i_stdbool.U,v $
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_stdbool: cat Compile rm_try Setvar
?MAKE: -pick add $@ %<
?S:i_stdbool:
?S: This variable conditionally defines the I_STDBOOL symbol, which
?S: indicates to the C program that <stdbool.h> exists and should
?S: be included.
?S:.
?C:I_STDBOOL:
?C: This symbol, if defined, indicates that <stdbool.h> exists and
?C: can be included.
?C:.
?H:#$i_stdbool I_STDBOOL  /**/
?H:.
?LINT:set i_stdbool
: see if stdbool is available
: we want a real compile instead of Inhdr because some Solaris systems
: have stdbool.h, but it can only be used if the compiler indicates it
: is sufficiently c99-compliant.
echo " "
$cat >try.c <<EOCP
#include <stdio.h>
#include <stdbool.h>
int func(bool x)
{
  return
```

```
 x ? 1 : 0;
}
int main(int argc, char **argv)
{
   return func(0);
}
EOCP
set try
if eval $compile; then
 echo "<stdbool.h> found." >&4
 val="$define"
else
 echo "<stdbool.h> NOT found." >&4
 val="$undef"
fi
$rm_try
set i_stdbool
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_stdbool.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_memccpy.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memccpy.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_memccpy: Inlibc
?MAKE: -pick add $@ %<
?S:d_memccpy:
?S: This variable conditionally defines the HAS_MEMCCPY symbol, which
?S: indicates to the C program that the memccpy() routine is available
?S: to copy a character into a block of memory.
?S:.
?C:HAS_MEMCCPY (MEMCCPY):
?C: This symbol, if defined, indicates that the memccpy routine
```

```
 is available
?C: to copy a character into a block of memory.  Otherwise you should
?C: roll your own.
?C:.
?H:#$d_memccpy HAS_MEMCCPY  /**/
?H:.
?LINT:set d_memccpy
: see if memccpy exists
set memccpy d_memccpy
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_memccpy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: lseektype.U,v 3.0.1.1 1994/08/29 16:30:10 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: lseektype.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:30:10  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lseektype lseeksize: Myread Typedef cat Compile rm_try longsize run
?MAKE: -pick add $@ %<
?S:lseektype:
?S: This variable defines lseektype to be something like off_t, long,
?S: or whatever type is used to declare
 lseek offset's type in the
?S: kernel (which also appears to be lseek's return type).
?S:.
?S:lseeksize:
?S: This variable defines lseektype to be something like off_t, long,
?S: or whatever type is used to declare lseek offset's type in the
?S: kernel (which also appears to be lseek's return type).
?S:.
?C:Off_t (LSEEKTYPE):
?C: This symbol holds the type used to declare offsets in the kernel.
```

```
?C: It can be int, long, off_t, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?C:LSEEKSIZE:
?C: This symbol holds the number of bytes used by the Off_t.
?C:.
?C:Off_t_size:
?C: This symbol holds the number of bytes used by the Off_t.
?C:.
?H:#define Off_t $lseektype  /* <offset> type */
?H:#define LSEEKSIZE $lseeksize  /* <offset> size */
?H:#define Off_t_size $lseeksize /* <offset> size */
?H:.
?F:!try
?LINT:set lseektype
: see what type lseek is declared as in the kernel
rp="What is the type used for lseek's offset on this system?"
set off_t lseektype
 long stdio.h sys/types.h
eval $typedef_ask

echo " "
echo "Checking to see how big your file offsets are..." >&4
$cat >try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
int main()
{
   printf("%d\n", (int)sizeof($lseektype));
   return(0);
}
EOCP
set try
if eval $compile_ok; then
 lseeksize=`$run ./try`
 echo "Your file offsets are $lseeksize bytes long."
else
 dflt=$longsize
 echo " "
 echo "(I can't seem to compile the test program.  Guessing...)"
 rp="What is the size of your file offsets (in bytes)?"
 . ./myread
 lseeksize="$ans"
fi
$rm_try

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
```

5.36.0/U/typedefs/lseektype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_ldbl_dig: Myread contains cat rm Setvar \
 cppstdin cppflags cppminus
?MAKE: -pick add $@ %<
?S:d_ldbl_dig:
?S: This variable conditionally defines d_ldbl_dig if this system's
?S: header files provide LDBL_DIG, which is the number of significant
?S: digits in a long double precision number.
?S:.
?C:HAS_LDBL_DIG:
?C: This symbol, if defined, indicates that this system's <float.h>
?C: or <limits.h> defines the symbol LDBL_DIG, which is the number
?C: of significant digits in a long double precision number. Unlike
?C: for
 DBL_DIG, there's no good guess for LDBL_DIG if it is undefined.
?C:.
?H:#$d_ldbl_dig HAS_LDBL_DIG /* */
?H:.
?F:!ldbl_dig.c
?LINT:set d_ldbl_dig
: See if number of significant digits in a double precision number is known
echo " "
$cat >ldbl_dig.c <<EOM
#include <limits.h>
#include <float.h>
#ifdef LDBL_DIG
printf("Contains LDBL_DIG");
#endif
EOM
$cppstdin $cppflags $cppminus < ldbl_dig.c >ldbl_dig.E 2>/dev/null
if $contains 'LDBL_DIG' ldbl_dig.E >/dev/null 2>&1; then
 echo "LDBL_DIG found." >&4
 val="$define"
else
 echo "LDBL_DIG NOT found." >&4
 val="$undef"
```

```
fi
$rm -f ldbl_dig.?
set d_ldbl_dig
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_ldbl_dig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_usleep.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_usleep.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:53  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_usleep: Inlibc
?MAKE: -pick add $@ %<
?S:d_usleep:
?S: This variable conditionally defines HAS_USLEEP if usleep() is
?S: available to do high granularity sleeps.
?S:.
?C:HAS_USLEEP (USLEEP):
?C: This symbol, if defined, indicates that the usleep routine is
?C: available to let the process sleep on a sub-second accuracy.
?C:.
?H:#$d_usleep
 HAS_USLEEP  /**/
?H:.
?LINT:set d_usleep
: see if usleep exists
set usleep d_usleep
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_usleep.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_wifstat.U,v 3.0.1.3 1997/02/28 15:47:43 ram Exp $
```

```
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_wifstat.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:47:43  ram
?RCS: patch61: added a ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  14:09:10  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.1  1995/03/21  08:47:46  ram
?RCS: patch52: created
?RCS:
?MAKE:d_wifstat: Compile d_uwait Oldconfig cat rm
?MAKE: -pick add $@ %<
?S:d_wifstat:
?S: This symbol conditionally defines USE_WIFSTAT
 if the C program can
?S: safely use the WIFxxx macros with the kind of wait() parameter
?S: declared in the program (see UNION_WAIT), or if it can't. Should
?S: only matter on HP-UX, where the macros are incorrectly written and
?S: therefore cause programs using them with an 'union wait' variable
?S: to not compile properly.
?S:.
?C:USE_WIFSTAT:
?C: This symbol, if defined, indicates to the C program that the argument
?C: for the WIFxxx set of macros such as WIFSIGNALED or WIFEXITED can
?C: be of the same kind as the one used to hold the wait() status. Should
?C: only matter on HP-UX, where the macros are incorrectly written and
?C: therefore cause programs using them with an 'union wait' variable
?C: to not compile properly. See also UNION_WAIT.
?C:.
?H:#$d_wifstat USE_WIFSTAT  /**/
?H:.
?T:type
?F:!foo
: see if we can use WIFxxx macros
echo " "
case "$d_wifstat" in
"$define") echo "As before, you can safely use WIFEXITED and friends!" >&4;;
"$undef") echo "You still can't use WIFEXITED
```

```
 and friends!" >&4;;
*)
 echo "Let's see whether you can use the WIFEXITED(status) macro and its"
 case "$d_uwait" in
 "$define") type='union wait';;
 *) type='int';;
 esac
 echo "friends with status declared as '$type status'..."
 $cat >foo.c <<EOCP
#include <sys/types.h>
#include <sys/wait.h>

int main()
{
 $type status;
 int e = 0;

#ifdef WIFEXITED
 if (WIFEXITED(status))
  printf("\n");
 exit(0);
#else
 exit(2);
#endif
}
EOCP
 d_wifstat="$undef"
 set foo
 if eval $compile; then
  if ./foo >/dev/null; then
   echo "Great! Looks like we can use the WIFxxx macros." >&4
   d_wifstat="$define"
  else
   echo "You don't seem to have WIFxxx macros, but that's ok." >&4
  fi
 else
  echo "Apparently you can't use WIFxxx macros properly." >&4
 fi
 $rm -f foo.* foo core
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_wifstat.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: socksizetype.U,v $

```
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:socksizetype: \
 Protochk Oldconfig Myread cat d_socket d_socklen_t sizetype \
 usesocks i_socks i_systypes extern_C
?MAKE: -pick add $@ %<
?S:socksizetype:
?S: This variable holds the type used for the size argument
?S: for various socket calls like accept.  Usual values include
?S: socklen_t, size_t, and int.
?S:.
?C:Sock_size_t:
?C: This symbol holds the type used for the size argument of
?C: various socket calls (just the base type, not the pointer-to).
?C:.
?H:#define Sock_size_t  $socksizetype /**/
?H:.
?T:xxx yyy try
@if Sock_size_t
: check for type of the size argument to socket calls
case "$d_socket" in
"$define")
 $cat <<EOM

Checking to see what type is the last argument
 of accept().
EOM
 yyy=''
 case "$d_socklen_t" in
 "$define") yyy="$yyy socklen_t"
 esac
 yyy="$yyy $sizetype int long unsigned"
 for xxx in $yyy; do
  case "$socksizetype" in
  '') try="$extern_C int accept(int, struct sockaddr *, $xxx *);"
   case "$usesocks" in
   "$define")
    if ./protochk "$try" $i_systypes sys/types.h $d_socket sys/socket.h literal '#define INCLUDE_PROTOTYPES'
$i_socks socks.h.; then
     echo "Your system accepts '$xxx *' for the last argument of accept()."
     socksizetype="$xxx"
    fi
    ;;
   *) if ./protochk "$try"  $i_systypes sys/types.h $d_socket sys/socket.h; then
```

```
    echo "Your system accepts '$xxx *' for the last argument of accept()."
    socksizetype="$xxx"
   fi
   ;;
  esac
  ;;
 esac
done
: In case none of those worked, prompt the user.
case "$socksizetype" in
") rp='What is the type for socket address structure sizes?'
 dflt='int'
 . ./myread
 socksizetype=$ans
 ;;
esac
;;
*) : no sockets, so pick relatively harmless default
 socksizetype='int'
 ;;
esac
@end
```

Found
 in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/socksizetype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_telldirproto: Hasproto i_systypes i_dirent
?MAKE: -pick add $@ %<
?S:d_telldirproto:
?S: This variable conditionally defines the HAS_TELLDIR_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the telldir() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_TELLDIR_PROTO:
```

```
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the telldir() function.  Otherwise, it is up
?C: to the program to supply one.  A good guess
 is
?C:  extern long telldir(DIR*);
?C:.
?H:#$d_telldirproto HAS_TELLDIR_PROTO /**/
?H:.
?LINT:set d_telldirproto
: see if prototype for telldir is available
echo " "
set d_telldirproto telldir $i_systypes sys/types.h $i_dirent dirent.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_telldirproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strtod.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strtod.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:46:36  ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_strtod: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtod:
?S: This variable conditionally defines the HAS_STRTOD symbol, which
?S: indicates to the C program that the strtod() routine is available
?S: to provide better numeric string conversion than atof().
?S:.
?C:HAS_STRTOD (STRTOD):
?C: This symbol, if defined,
 indicates that the strtod routine is
?C: available to provide better numeric string conversion than atof().
?C:.
?H:#$d_strtod HAS_STRTOD /**/
```

```
?H:.
?LINT:set d_strtod
: see if strtod exists
set strtod d_strtod
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strtod.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getprior.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getprior.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:16  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getprior: Inlibc
?MAKE: -pick add $@ %<
?S:d_getprior:
?S: This variable conditionally defines HAS_GETPRIORITY if getpriority()
?S: is available to get a process's priority.
?S:.
?C:HAS_GETPRIORITY (GETPRIORITY):
?C: This symbol, if defined, indicates that the getpriority routine is
?C: available to get a process's priority.
?C:.
?H:#$d_getprior
 HAS_GETPRIORITY  /**/
?H:.
: see if getpriority exists
?LINT:set d_getprior
set getpriority d_getprior
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getprior.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pathconf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_pathconf.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:14:54  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_pathconf d_fpathconf: Inlibc
?MAKE: -pick add $@ %<
?S:d_pathconf:
?S: This variable conditionally defines the HAS_PATHCONF symbol, which
?S: indicates to the C program that the pathconf() routine is available
?S: to determine file-system related limits and options
 associated
?S: with a given filename.
?S:.
?S:d_fpathconf:
?S: This variable conditionally defines the HAS_FPATHCONF symbol, which
?S: indicates to the C program that the pathconf() routine is available
?S: to determine file-system related limits and options associated
?S: with a given open file descriptor.
?S:.
?C:HAS_PATHCONF:
?C: This symbol, if defined, indicates that pathconf() is available
?C: to determine file-system related limits and options associated
?C: with a given filename.
?C:.
?C:HAS_FPATHCONF:
?C: This symbol, if defined, indicates that pathconf() is available
?C: to determine file-system related limits and options associated
?C: with a given open file descriptor.
?C:.
?H:#$d_pathconf HAS_PATHCONF  /**/
?H:#$d_fpathconf HAS_FPATHCONF  /**/
?H:.
?LINT:set d_pathconf
?LINT:set d_fpathconf
: see if pathconf exists
set pathconf d_pathconf
```

```
eval $inlibc

@if d_fpathconf || HAS_FPATHCONF
: see if fpathconf exists
set fpathconf d_fpathconf
eval $inlibc

@end
```

Found in path(s):
*
/opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_pathconf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_siglist.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_siglist.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:22  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_siglist: Csym Setvar
?MAKE: -pick add $@ %<
?S:d_siglist:
?S: This variable conditionally defines HAS_SYS_SIGLIST if sys_siglist[] is
?S: available to translate signal numbers to strings.
?S:.
?C:HAS_SYS_SIGLIST (SYS_SIGLIST):
?C: This symbol, if defined, indicates that the sys_siglist array is
?C: available to translate signal numbers
 to strings.
?C:.
?H:#$d_siglist HAS_SYS_SIGLIST  /**/
?H:.
?LINT:set d_siglist
: see if sys_siglist[] exist
echo " "
if set sys_siglist val -a d_siglist; eval $csym; $val; then
 echo "You have sys_siglist[] for signal description." >&4
 val="$define"
```

```
else
 echo "You don't have sys_siglist[]." >&4
 val="$undef"
fi
set d_siglist
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_siglist.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: prefix.U,v 3.1 1999/07/08 18:27:51 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: prefix.U,v $
?RCS: Revision 3.1  1999/07/08 18:27:51  doughera
?RCS: 5.005_5x version -- Andy Dougherty
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:44:05  ram
?RCS: patch49: new prefixexp variable holding a fully expanded prefix
?RCS: patch49: save off previous prefix value in oldprefix if changed (WED)
?RCS: patch49: added the INSTALLPREFIX define for C programs to use (WED)
?RCS:
?RCS:
 Revision 3.0.1.1  1994/08/29  16:31:34  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:prefix prefixexp +oldprefix: Getfile Loc Oldconfig cat package
?MAKE: -pick add $@ %<
?S:prefix:
?S: This variable holds the name of the directory below which the
?S: user will install the package.  Usually, this is /usr/local, and
?S: executables go in /usr/local/bin, library stuff in /usr/local/lib,
?S: man pages in /usr/local/man, etc.  It is only used to set defaults
?S: for things in bin.U, mansrc.U, privlib.U, or scriptdir.U.
?S:.
?S:prefixexp:
?S: This variable holds the full absolute path of the directory below
```

```
?S: which the user will install the package.  Derived from prefix.
?S:.
?S:oldprefix:
?S: This variable is set non-null if the prefix was previously defined
?S: and gets set to a new value. Used internally by Configure only.
?S:.
?C:INSTALLPREFIX:
?C: This symbol contains the name of the install prefix for this package.
?C:.
?H:#define INSTALLPREFIX "$prefix"  /**/
?H:.
:
 determine root of directory hierarchy where package will be installed.
case "$prefix" in
") dflt=`./loc . /usr/local /usr/local /local /opt /usr`
 ;;
*) dflt="$prefix"
 ;;
esac
$cat <<EOM

By default, $package will be installed in $dflt/bin, manual pages
under $dflt/man, etc..., i.e. with $dflt as prefix for all
installation directories. Typically this is something like /usr/local.
If you wish to have binaries under /usr/bin but other parts of the
installation under /usr/local, that's ok: you will be prompted
separately for each of the installation directories, the prefix being
only used to set the defaults.

EOM
fn=d~
rp='Installation prefix to use?'
. ./getfile
oldprefix=''
case "$prefix" in
") ;;
*) case "$ans" in
 "$prefix") ;;
 *) oldprefix="$prefix";;
 esac
 ;;
esac

case "$ans" in
*?/) prefix=`echo "$ans" | sed 's/.$//'`
 ;;
*) prefix="$ans"
esac
```

```
case "$ansexp" in
*?/) prefixexp=`echo "$ansexp" | sed 's/.$//'`
 ;;
*) prefixexp="$ansexp"
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/prefix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: myhostname.U,v 3.0.1.3 1997/02/28 16:15:55 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: myhostname.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:15:55  ram
?RCS: patch61: improved hostname lookup by using ypmatch when NIS is used
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:25:43  ram
?RCS: patch36: call ./xenix explicitly instead of relying on PATH
?RCS: patch36: now uses new Tr unit to convert to/from lowercase
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:06:20  ram
?RCS: patch30: now a little more clever for domain name guessing
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:09:18  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:myhostname phostname mydomain: contains sed test Myread Oldconfig \
 Guess Loc awk echo sort uniq +usrinc rm hostcat Tr
?MAKE: -pick add $@ %<
?S:myhostname (hostname):
?S: This variable contains the eventual value of the MYHOSTNAME symbol,
?S: which is the name of the host the program is going to run on.
?S: The domain is not kept with hostname, but must be gotten from mydomain.
?S: The dot comes with mydomain, and need not be supplied by the program.
?S:.
?S:mydomain:
?S: This variable contains the eventual value of the MYDOMAIN symbol,
```

```
?S: which is the domain of the host the program is going to run on.
?S: The domain must be appended to myhostname to form a complete host name.
?S: The dot comes with mydomain, and need not be supplied by the program.
?S:.
?S:phostname:
?S: This variable contains the eventual value of the PHOSTNAME symbol,
?S: which is a command that can be fed to popen()
 to get the host name.
?S: The program should probably not presume that the domain is or isn't
?S: there already.
?S:.
?C:MYHOSTNAME (HOSTNAME):
?C: This symbol contains name of the host the program is going to run on.
?C: The domain is not kept with hostname, but must be gotten from MYDOMAIN.
?C: The dot comes with MYDOMAIN, and need not be supplied by the program.
?C: If gethostname() or uname() exist, MYHOSTNAME may be ignored. If MYDOMAIN
?C: is not used, MYHOSTNAME will hold the name derived from PHOSTNAME.
?C:.
?C:MYDOMAIN:
?C: This symbol contains the domain of the host the program is going to
?C: run on.  The domain must be appended to HOSTNAME to form a complete
?C: host name.  The dot comes with MYDOMAIN, and need not be supplied by
?C: the program.  If the host name is derived from PHOSTNAME, the domain
?C: may or may not already be there, and the program should check.
?C:.
?H:#define MYHOSTNAME "$myhostname"  /**/
?H:#define MYDOMAIN "$mydomain"  /**/
?H:.
?LINT:extern osname
?T:cont
 i tans tmp_re
: now get the host name
echo " "
echo "Figuring out host name..." >&4
case "$myhostname" in
") cont=true
 echo 'Maybe "hostname" will work...'
 if tans=`sh -c hostname 2>&1` ; then
  myhostname=$tans
  phostname=hostname
  cont=''
 fi
 ;;
*) cont='';;
esac
if $test "$cont"; then
 if ./xenix; then
  echo 'Oh, dear.  Maybe "/etc/systemid" is the key...'
```

```
  if tans=`cat /etc/systemid 2>&1` ; then
   myhostname=$tans
   phostname='cat /etc/systemid'
   echo "Whadyaknow.  Xenix always was a bit strange..."
   cont=''
  fi
 elif $test -r /etc/systemid; then
  echo "(What is a non-Xenix system doing with /etc/systemid?)"
 fi
fi
if $test "$cont"; then
 echo 'No, maybe "uuname -l" will work...'
 if tans=`sh -c 'uuname -l' 2>&1` ; then
  myhostname=$tans
  phostname='uuname -l'
 else
  echo 'Strange.  Maybe "uname -n" will work...'
  if tans=`sh -c 'uname -n' 2>&1` ; then
   myhostname=$tans
   phostname='uname -n'
  else
   echo 'Oh well, maybe I can mine it out of whoami.h...'
   if
 tans=`sh -c $contains' sysname $usrinc/whoami.h' 2>&1` ; then
    myhostname=`echo "$tans" | $sed 's/^.*"\(.*\)"/\1/'`
    phostname="sed -n -e ""/sysname/s/^.*\"\\(.*\\)\"/\1/{"" -e p -e q -e '}' <$usrinc/whoami.h"
   else
    case "$myhostname" in
    '') echo "Does this machine have an identity crisis or something?"
     phostname='';;
    *)
     echo "Well, you said $myhostname before..."
     phostname='echo $myhostname';;
    esac
   fi
  fi
 fi
fi
case "$myhostname" in
'') myhostname=noname ;;
esac
: you do not want to know about this
set $myhostname
myhostname=$1

: verify guess
if $test "$myhostname" ; then
 dflt=y
```

```
 rp='Your host name appears to be "'$myhostname'".' Right?"
 . ./myread
 case "$ans" in
 y*) ;;
 *) myhostname='';;
 esac
fi

: bad guess or no guess
while $test "X$myhostname" = X ; do
 dflt=''
 rp="Please type the (one word) name of your host:"
 . ./myread
 myhostname="$ans"
done

: translate upper to lower if necessary
case "$myhostname" in
*[A-Z]*)
 echo
 "(Normalizing case in your host name)"
 myhostname=`echo $myhostname | ./tr '[A-Z]' '[a-z]'`
 ;;
esac

?X: Do not ask for domain name if this is not used later on. In that
?X: case, the hostname may keep its domain name, but it doesn't matter.
@if MYDOMAIN || mydomain
case "$myhostname" in
*.*)
 dflt=`expr "X$myhostname" : "X[^.]*\(\..*\)"`
 myhostname=`expr "X$myhostname" : "X\([^.]*\)\."`
 echo "(Trimming domain name from host name--host name is now $myhostname)"
 ;;
*) case "$mydomain" in
 '')
?X:
?X: There is currently no way to say we do not want hostcat if mydomain is not
?X: used. One way to achieve that would be to put that code in a mydomain.U
?X: unit. However, we want to stick the sanity checks right after the domain
?X: name computation, or if none is done, right after the hostname computation.
?X:
  {
?X: If we use NIS, try ypmatch.
   test "X$hostcat" = "Xypcat hosts" &&
   ypmatch "$myhostname" hosts 2>/dev/null |\
    $sed -e 's/[  ]*#.*//; s/$/ /' > hosts
```

```
 && \
  $test -s hosts
  } || {
?X: Extract only the relevant hosts, reducing file size,
?X: remove comments, insert trailing space for later use.
?X: Test to be sure we *have* a hostcat command.  os390 doesn't.
   test "X$hostcat" != "X" &&
   $hostcat | $sed -n -e "s/[  ]*#.*//; s/\$/ /
     /[  ]$myhostname[ . ]/p" > hosts
  }
  tmp_re="[ . ]"
  if $test -f hosts; then
   $test x`$awk "/[0-9].*[  ]$myhostname$tmp_re/ { sum++ }
       END { print sum }" hosts` = x1 || tmp_re="[  ]"
   dflt=.`$awk "/[0-9].*[  ]$myhostname$tmp_re/ {for(i=2; i<=NF;i++) print \\\$i}" \
    hosts | $sort | $uniq | \
    $sed -n -e "s/$myhostname\.\([-a-zA-Z0-9_.]\)/\1/p"`
   case `$echo X$dflt` in
   X*\ *) echo "(Several hosts in the database matched hostname)"
    dflt=.
    ;;
   X.) echo "(You do not have fully-qualified names in the hosts database)"
    ;;
   esac
  else
   echo "(I cannot locate a hosts database anywhere)"
   dflt=.
  fi
  case "$dflt" in
  .)
   tans=`./loc resolv.conf X /etc /usr/etc`
   if
 $test -f "$tans"; then
    echo "(Attempting domain name extraction from $tans)"
?X: Look for either a search or a domain directive.
    dflt=.`$sed -n -e 's/ / /g' \
      -e 's/^search  *\([^ ]*\).*/\1/p' $tans \
      -e 1q 2>/dev/null`
    case "$dflt" in
    .) dflt=.`$sed -n -e 's/ / /g' \
         -e 's/^domain  *\([^ ]*\).*/\1/p' $tans \
         -e 1q 2>/dev/null`
     ;;
    esac
   fi
   ;;
  esac
  case "$dflt" in
```

```
  .) echo "(No help from resolv.conf either -- attempting clever guess)"
   dflt=.`sh -c domainname 2>/dev/null`
   case "$dflt" in
   ") dflt='.';;
   .nis.*|.yp.*|.main.*) dflt=`echo $dflt | $sed -e 's/^\.[^.]*//'`;;
   esac
   ;;
  esac
  case "$dflt$osname" in
  .os390) echo "(Attempting domain name extraction from //'SYS1.TCPPARMS(TCPDATA)')"
   dflt=.`awk '/^DOMAINORIGIN/ {print $2}' "//'SYS1.TCPPARMS(TCPDATA)'" 2>/dev/null`
   ;;
  esac
  case "$dflt" in
  .) echo "(Lost all hope -- silly guess then)"
   dflt='.nonet'
   ;;
  esac
  $rm -f hosts
  ;;
 *)
 dflt="$mydomain";;
 esac;;
esac
echo " "
rp="What is your domain name?"
. ./myread
tans="$ans"
case "$ans" in
") ;;
.*) ;;
*) tans=".$tans";;
esac
mydomain="$tans"

: translate upper to lower if necessary
case "$mydomain" in
*[A-Z]*)
 echo "(Normalizing case in your domain name)"
 mydomain=`echo $mydomain | ./tr '[A-Z]' '[a-z]'`
 ;;
esac

@end
: a little sanity check here
case "$phostname" in
") ;;
*)
```

```
 case `$phostname | ./tr '[A-Z]' '[a-z]'` in
 $myhostname$mydomain|$myhostname) ;;
 *)
  case "$phostname" in
  sed*)
   echo "(That doesn't agree with your whoami.h file, by the way.)"
   ;;
  *)
   echo "(That doesn't agree with your $phostname command, by the way.)"
   ;;
  esac
 ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/myhostname.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sitescript.U,v $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sitescript.U,v $
?RCS:
?MAKE:sitescript sitescriptexp installsitescript : Getfile Oldconfig test \
 Setprefixvar sitebin siteprefix
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitescript="
?S:sitescript:
?S: This variable holds the name of the directory in which the user wants
?S: to put add-on publicly executable files for the package in question.  It
?S: is most often a local directory such as /usr/local/bin. Programs using
?S: this variable must be prepared to deal with ~name substitution.
?S: The standard
 distribution will put nothing in this directory.
?S: After perl has been installed, users may install their own local
?S: scripts in this directory with
?S:  MakeMaker Makefile.PL
```

```
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitescriptexp="
?S:sitescriptexp:
?S: This is the same as the sitescript variable, but is filename expanded at
?S: configuration time, for use in your makefiles.
?S:.
?D:installsitescript="
?S:installsitescript:
?S: This variable is usually the same as sitescriptexp, unless you are on
?S: a system running AFS, in which case they may differ slightly. You
?S: should always use this variable within your makefiles for portability.
?S:.
?LINT:change prefixvar
?LINT:set installsitescript
?LINT:set sitescript
?LINT:set sitescriptexp
: determine where add-on public executable scripts go
case "$sitescript" in
") dflt=$siteprefix/script
 $test -d $dflt || dflt=$sitebin ;;
*)  dflt="$sitescript" ;;
esac
fn=d~+
rp='Pathname where add-on public executable scripts
 should be installed?'
. ./getfile
prefixvar=sitescript
. ./setprefixvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/sitescript.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:use64bitint use64bitall archname64: Myread Oldconfig Setvar test \
 usemorebits longsize ccflags d_quad uquadtype Compile rm_try run
?MAKE: -pick add $@ %<
?Y:TOP
?S:use64bitint:
?S: This variable conditionally defines the USE_64_BIT_INT symbol,
```

```
?S: and indicates that 64-bit integer types should be used
?S: when available.  The minimal possible 64-bitness
?S: is employed, just enough to get 64-bit integers into Perl.
?S: This may mean using for example "long longs", while your memory
?S: may still be limited to 2 gigabytes.
?S:.
?S:use64bitall:
?S: This variable conditionally defines the USE_64_BIT_ALL symbol,
?S: and indicates that 64-bit integer types should be used
?S: when available.  The maximal
 possible
?S: 64-bitness is employed: LP64 or ILP64, meaning that you will
?S: be able to use more than 2 gigabytes of memory.  This mode is
?S: even more binary incompatible than USE_64_BIT_INT. You may not
?S: be able to run the resulting executable in a 32-bit CPU at all or
?S: you may need at least to reboot your OS to 64-bit mode.
?S:.
?S:archname64:
?S: This variable is used for the 64-bitness part of $archname.
?S:.
?C:USE_64_BIT_INT:
?C: This symbol, if defined, indicates that 64-bit integers should
?C: be used when available.  If not defined, the native integers
?C: will be employed (be they 32 or 64 bits).  The minimal possible
?C: 64-bitness is used, just enough to get 64-bit integers into Perl.
?C: This may mean using for example "long longs", while your memory
?C: may still be limited to 2 gigabytes.
?C:.
?C:USE_64_BIT_ALL:
?C: This symbol, if defined, indicates that 64-bit integers should
?C: be used when available.  If not defined, the native integers
?C: will be used (be
 they 32 or 64 bits).  The maximal possible
?C: 64-bitness is employed: LP64 or ILP64, meaning that you will
?C: be able to use more than 2 gigabytes of memory.  This mode is
?C: even more binary incompatible than USE_64_BIT_INT. You may not
?C: be able to run the resulting executable in a 32-bit CPU at all or
?C: you may need at least to reboot your OS to 64-bit mode.
?C:.
?H:?%<:#ifndef USE_64_BIT_INT
?H:?%<:#$use64bitint USE_64_BIT_INT  /**/
?H:?%<:#endif
?H:?%<:#ifndef USE_64_BIT_ALL
?H:?%<:#$use64bitall USE_64_BIT_ALL  /**/
?H:?%<:#endif
?H:.
?INIT:archname64="
?LINT:extern ccflags
```

```
?LINT:use usemorebits
?LINT:extern use64bits
?LINT:extern uselonglong
?LINT:extern uselonglongs
?LINT:extern use64bitints
?LINT:extern use64bitsint
?LINT:extern use64bitsall
?T:libcquad
?F:!try
?F:!use64bitint.cbu
?F:!use64bitall.cbu
: Do we want 64bit support
case "$uselonglong" in
"$define"|true|[yY]*)
 cat <<EOM >&4

*** Configure -Duselonglong is deprecated, using -Duse64bitint instead.
EOM
 use64bitint="$define"
 ;;
esac
case
 "$use64bits" in
"$define"|true|[yY]*)
 cat <<EOM >&4

*** Configure -Duse64bits is deprecated, using -Duse64bitint instead.
EOM
 use64bitint="$define"
 ;;
esac
case "$use64bitints" in
"$define"|true|[yY]*)
 cat <<EOM >&4

*** There is no Configure -Duse64bitints, using -Duse64bitint instead.
EOM
 use64bitint="$define"
 ;;
esac
case "$use64bitsint" in
"$define"|true|[yY]*)
 cat <<EOM >&4

*** There is no Configure -Duse64bitsint, using -Duse64bitint instead.
EOM
 use64bitint="$define"
 ;;
```

```
esac
case "$uselonglongs" in
"$define"|true|[yY]*)
 cat <<EOM >&4

*** There is no Configure -Duselonglongs, using -Duse64bitint instead.
EOM
 use64bitint="$define"
 ;;
esac
case "$use64bitsall" in
"$define"|true|[yY]*)
 cat <<EOM >&4

*** There is no Configure -Duse64bitsall, using -Duse64bitall instead.
EOM
 use64bitall="$define"
 ;;
esac

case "$ccflags" in
*-DUSE_LONG_LONG*|*-DUSE_64_BIT_INT*|*-DUSE_64_BIT_ALL*) use64bitint="$define";;
esac
case "$use64bitall" in
"$define"|true|[yY]*)
 use64bitint="$define" ;;
esac

case "$longsize" in
8) cat <<EOM

You have natively 64-bit long integers.
EOM
  val="$define"
  ;;
*) case "$use64bitint" in
  "$define"|true|[yY]*) dflt='y';;
  *) dflt='n';;
  esac
  case "$d_quad" in
  "$define") ;;
  *) dflt='n' ;;
  esac
  cat <<EOM

Perl can be built to take advantage of 64-bit integer types
on some systems.  To do so, Configure can be run with -Duse64bitint.
Choosing this option will most probably introduce binary incompatibilities.
```

```
If this doesn't make any sense to you, just accept the default '$dflt'.
(The default has been chosen based on your configuration.)
EOM
  rp='Try to use 64-bit integers, if available?'
  . ./myread
  case "$ans" in
  [yY]*) val="$define" ;;
  *)     val="$undef"  ;;
  esac
  ;;
esac
set use64bitint
eval $setvar

case "$use64bitall" in
"$define"|true|[yY]*) dflt='y' ;;
*) case "$longsize" in
  8) dflt='y' ;;
  *) dflt='n' ;;
  esac
  ;;
esac
cat <<EOM

You may also
 choose to try maximal 64-bitness.  It means using as much
64-bitness as possible on the platform.  This in turn means even more
binary incompatibilities.  On the other hand, your platform may not
have any more 64-bitness available than what you already have chosen.

If this doesn't make any sense to you, just accept the default '$dflt'.
(The default has been chosen based on your configuration.)
EOM
rp='Try to use maximal 64-bit support, if available?'
. ./myread
case "$ans" in
[yY]*) val="$define" ;;
*)     val="$undef"  ;;
esac
set use64bitall
eval $setvar
case "$use64bitall" in
"$define")
 case "$use64bitint" in
 "$undef")
  cat <<EOM
```

```
Since you have chosen a maximally 64-bit build, I'm also turning on
the use of 64-bit integers.
EOM
  use64bitint="$define" ;;
 esac
 ;;
esac

: Look for a hint-file generated 'call-back-unit'.  If the
: user has specified that a 64-bit perl is to be built,
: we may need to set or change some other defaults.
if $test -f use64bitint.cbu; then
 echo "Your
 platform has some specific hints regarding 64-bit integers, using them..."
 . ./use64bitint.cbu
fi
case "$use64bitint" in
"$define"|true|[yY]*)
 : This test was common to all the OpenBSD forks, and seems harmless for
 : other platforms:
 echo " "
 echo "Checking if your C library has broken 64-bit functions..." >&4
 cat >try.c <<EOCP
#include <stdio.h>
typedef $uquadtype myULL;
int main (void)
{
   struct {
 double d;
 myULL  u;
   } *p, test[] = {
 {4294967303.15, 4294967303ULL},
 {4294967294.2,  4294967294ULL},
 {4294967295.7,  4294967295ULL},
 {0.0, 0ULL}
   };
   for (p = test; p->u; p++) {
 myULL x = (myULL)p->d;
 if (x != p->u) {
     printf("buggy\n");
     return 0;
 }
   }
   printf("ok\n");
   return 0;
}
EOCP
 set try
```

```
 if eval $compile_ok; then
     libcquad=`$run ./try`
     echo "Your C library's 64-bit functions are $libcquad."
 else
     echo "(I can't seem to compile the test program.)"
     echo "Assuming that your C library's 64-bit functions are ok."
     libcquad="ok"
 fi
 $rm_try

 case
 "$libcquad" in
     buggy*)
  cat >&4 <<EOM

*** You have a C library with broken 64-bit functions.
*** 64-bit support does not work reliably in this configuration.
*** Please rerun Configure without -Duse64bitint and/or -Dusemorebits.
*** Cannot continue, aborting.

EOM
  exit 1
  ;;
 esac
 case "$longsize" in
 4) case "$archname64" in
    ") archname64=64int ;;
    esac
    ;;
 esac
 ;;
esac

: Look for a hint-file generated 'call-back-unit'.  If the
: user has specified that a maximally 64-bit perl is to be built,
: we may need to set or change some other defaults.
if $test -f use64bitall.cbu; then
 echo "Your platform has some specific hints regarding 64-bit builds, using them..."
 . ./use64bitall.cbu
fi
case "$use64bitall" in
"$define"|true|[yY]*)
 case "$longsize" in
 4) case "$archname64" in
    "|64int) archname64=64all ;;
    esac
    ;;
 esac
```

```
 ;;
esac

case "$d_quad:$use64bitint" in
$undef:$define)
 cat >&4 <<EOF

*** You have chosen to use 64-bit
 integers,
*** but none can be found.
*** Please rerun Configure without -Duse64bitint and/or -Dusemorebits.
*** Cannot continue, aborting.

EOF
 exit 1
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/use64bits.U
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strftime: Inlibc
?MAKE: -pick add $@ %<
?S:d_strftime:
?S: This variable conditionally defines the HAS_STRFTIME symbol, which
?S: indicates to the C program that the strftime() routine is available.
?S:.
?C:HAS_STRFTIME:
?C: This symbol, if defined, indicates that the strftime routine is
?C: available to do time formatting.
?C:.
?H:#$d_strftime HAS_STRFTIME  /**/
?H:.
?LINT:set d_strftime
: see if strftime exists
set strftime d_strftime
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strftime.U
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?RCS:
?MAKE:d_strtouq: Inlibc cat Compile run
?MAKE: -pick add $@ %<
?S:d_strtouq:
?S: This variable conditionally defines the HAS_STRTOUQ symbol, which
?S: indicates to the C program that the strtouq() routine is available.
?S:.
?C:HAS_STRTOUQ:
?C: This symbol, if defined, indicates that the strtouq routine is
?C: available to convert strings to unsigned long longs (quads).
?C:.
?H:#$d_strtouq HAS_STRTOUQ  /**/
?H:.
?F:!try
: see if strtouq exists
set strtouq d_strtouq
eval $inlibc

case "$d_strtouq" in
"$define")
 $cat <<EOM
Checking whether your strtouq() works okay...
EOM
 $cat >try.c <<'EOCP'
#include <stdlib.h>
#include <errno.h>
#include <stdio.h>
static int bad = 0;
void check(const char *s, unsigned
 long long eull, int een) {
 unsigned long long gull;
 errno = 0;
 gull = strtouq(s, 0, 10);
 if (!((gull == eull) && (errno == een)))
  bad++;
}
int main() {
 check(" 1",                                1LL, 0);
```

```
 check(" 0",                                0LL, 0);
 check("18446744073709551615",  18446744073709551615ULL, 0);
 check("18446744073709551616",  18446744073709551615ULL, ERANGE);
#if 0 /* strtouq() for /^-/ strings is undefined. */
 check("-1",                  18446744073709551615ULL, 0);
 check("-18446744073709551614",                  2LL, 0);
 check("-18446744073709551615",                  1LL, 0);
 check("-18446744073709551616", 18446744073709551615ULL, ERANGE);
 check("-18446744073709551617", 18446744073709551615ULL, ERANGE);
#endif
 if (!bad)
  printf("ok\n");
 return 0;
}
EOCP
 set try
 if eval $compile; then
  case "`$run ./try`" in
  ok) echo "Your strtouq() seems to be working okay." ;;
  *) cat <<EOM >&4
Your strtouq() doesn't seem to be working
 okay.
EOM
     d_strtouq="$undef"
     ;;
  esac
 else
  echo "(I can't seem to compile the test program--assuming it doesn't)"
  d_strtouq="$undef"
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strtouq.U
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```
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?RCS:
?MAKE:d_llrint: Inlibc
?MAKE: -pick add $@ %<
?S:d_llrint:
?S: This variable conditionally defines the HAS_LLRINT symbol, which
?S: indicates to the C program that the llrint() routine is available
?S: to return the long long value closest to a double (according
?S: to the current rounding mode).
```

```
?S:.
?C:HAS_LLRINT:
?C: This symbol, if defined, indicates that the llrint routine is
?C: available to return the long long value closest to a double
?C: (according to the current rounding mode).
?C:.
?H:#$d_llrint HAS_LLRINT  /**/
?H:.
?LINT:set d_llrint
: see if llrint exists
set llrint d_llrint
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_llrint.U
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```
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:sitehtml1dir sitehtml1direxp installsitehtml1dir: Getfile \
 Setprefixvar prefix siteprefix html1dir sed
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitehtml1dir=''
?S:sitehtml1dir:
?S: This variable contains the name of the directory in which site-specific
?S: html source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S: The standard distribution will put nothing in this directory.
?S: After perl
 has been installed, users may install their own local
?S: html pages in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitehtml1direxp=''
?S:sitehtml1direxp:
?S: This variable is the same as the sitehtml1dir variable, but is filename
```

```
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsitehtml1dir="
?S:installsitehtml1dir:
?S: This variable is really the same as sitehtml1direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: html1direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installsitehtml1dir
?LINT:set sitehtml1dir
?LINT:set sitehtml1direxp
: determine where add-on html pages go
: There is no standard location, so try to copy the previously-selected
: directory structure for the core html pages.
case "$sitehtml1dir" in
")
   dflt=`echo "$html1dir" | $sed "s#^$prefix#$siteprefix#"` ;;
*)     dflt=$sitehtml1dir ;;
esac
case "$dflt" in
"|' ') dflt=none ;;
esac
fn=dn+~
rp='Pathname where the site-specific html pages should be installed?'
. ./getfile
prefixvar=sitehtml1dir
. ./setprefixvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/sitehtml1dir.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_backtrace.U,v $
?RCS:
?MAKE:d_backtrace: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_backtrace:
?S: This variable conditionally defines the HAS_BACKTRACE symbol, which
?S: indicates to the C program that the backtrace() routine is available
?S: to get a stack trace.
?S:.
?C:HAS_BACKTRACE:
?C: This symbol, if defined, indicates that the backtrace() routine is
?C: available to get a stack trace.  The <execinfo.h> header must be
?C: included to use this routine.
?C:.
?H:#$d_backtrace HAS_BACKTRACE /**/
?H:.
?LINT:set d_backtrace
:
 see if backtrace exists
set backtrace d_backtrace
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_backtrace.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_malloc.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:21  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_malloc: Inhdr
?MAKE: -pick add $@ %<
?S:i_malloc:
?S: This variable conditionally defines the I_MALLOC symbol, and indicates
?S: whether a C program should include <malloc.h>.
?S:.
?C:I_MALLOC:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <malloc.h>.
?C:.
```

```
?H:#$i_malloc I_MALLOC  /**/
?H:.
?LINT:set i_malloc
: see if this is a malloc.h system
set
 malloc.h i_malloc
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_malloc.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_castneg.U,v $
?RCS: Revision 3.0.1.2  1995/05/12  12:11:21  ram
?RCS: patch54: made sure cc and ccflags are conditional dependencies
?RCS: patch54: added improved test case for Interactive Unix
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:10:50  ram
?RCS: patch36: don't forget to tell user about compilation failures (ADO)
?RCS: patch36: declare signal handler correctly using 'signal_t' (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Can
 the compiler cast negative / odd floats to unsigned values.
?X:
?MAKE:d_castneg castflags: cat +cc +ccflags rm_try Setvar signal_t
?MAKE: -pick add $@ %<
?S:d_castneg:
?S: This variable conditionally defines CASTNEG, which indicates
?S: wether the C compiler can cast negative float to unsigned.
?S:.
?S:castflags:
?S: This variable contains a flag that precise difficulties the
?S: compiler has casting odd floating values to unsigned long:
```

```
?S:  0 = ok
?S:  1 = couldn't cast < 0
?S:  2 = couldn't cast >= 0x80000000
?S:  4 = couldn't cast in argument expression list
?S:.
?C:CASTNEGFLOAT:
?C: This symbol is defined if the C compiler can cast negative
?C: numbers to unsigned longs, ints and shorts.
?C:.
?C:CASTFLAGS:
?C: This symbol contains flags that say what difficulties the compiler
?C: has casting odd floating values to unsigned long:
?C:  0 = ok
?C:  1 = couldn't cast < 0
?C:  2 = couldn't cast >= 0x80000000
?C:  4 = couldn't cast in argument expression list
?C:.
?H:#$d_castneg CASTNEGFLOAT  /**/
?H:#define
 CASTFLAGS $castflags  /**/
?H:.
?F:!try
?LINT:set d_castneg
: check for ability to cast negative floats to unsigned
echo " "
echo 'Checking whether your C compiler can cast negative float to unsigned.' >&4
$cat >try.c <<EOCP
#include <sys/types.h>
#include <signal.h>
$signal_t blech() { exit(7); }
$signal_t blech_in_list() { exit(4); }
unsigned long dummy_long(p) unsigned long p; { return p; }
unsigned int dummy_int(p) unsigned int p; { return p; }
unsigned short dummy_short(p) unsigned short p; { return p; }
int main()
{
 double f = -123.;
 unsigned long along;
 unsigned int aint;
 unsigned short ashort;
 int result = 0;

 signal(SIGFPE, blech);
 along = (unsigned long)f;
 aint = (unsigned int)f;
 ashort = (unsigned short)f;
 if (along != (unsigned long)-123)
  result |= 1;
```

```
 if (aint != (unsigned int)-123)
  result |= 1;
 if (ashort != (unsigned short)-123)
  result |= 1;
 f = (double)0x40000000;
 f = f + f;
 along = 0;
 along = (unsigned long)f;
 if
 (along != 0x80000000)
  result |= 2;
 f -= 1.;
 along = 0;
 along = (unsigned long)f;
 if (along != 0x7fffffff)
  result |= 1;
 f += 2.;
 along = 0;
 along = (unsigned long)f;
 if (along != 0x80000001)
  result |= 2;
 if (result)
  exit(result);
?X:
?X: The following is a test for Interactive Unix Version 4.1, which
?X: has an 'improved' compiler which can correctly cast negative
?X: floats in expression lists, but apparently not in argument lists.
?X: Contributed by Winfried Koenig <win@incom.rhein-main.de>
?X:
 signal(SIGFPE, blech_in_list);
 f = 123.;
 along = dummy_long((unsigned long)f);
 aint = dummy_int((unsigned int)f);
 ashort = dummy_short((unsigned short)f);
 if (along != (unsigned long)123)
  result |= 4;
 if (aint != (unsigned int)123)
  result |= 4;
 if (ashort != (unsigned short)123)
  result |= 4;
 exit(result);

}
EOCP
if $cc $ccflags -o try try.c >/dev/null 2>&1; then
 ./try
 castflags=$?
else
```

```
 echo "(I can't seem to compile the test program--assuming it can't)"
 castflags=7
fi
case
 "$castflags" in
0) val="$define"
 echo "Yup, it can."
 ;;
*) val="$undef"
 echo "Nope, it can't."
 ;;
esac
set d_castneg
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_castneg.U
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:run to from targetarch targetdir targetmkdir targethost targetport \
 usecrosscompile hostperl hostgenerate hostosname targetenv: \
    src test rm echo sed mkdir cp chmod make touch
?MAKE: -pick add $@ %<
?Y:TOP
?S:usecrosscompile:
?S: This variable conditionally defines the USE_CROSS_COMPILE symbol,
?S: and indicates that Perl has been cross-compiled.
?S:.
?S:run:
?S: This variable contains the command used by Configure
?S: to copy and execute a cross-compiled executable in the
?S: target host.  Useful and available only during Perl build.
?S: Empty string '' if not cross-compiling.
?S:.
?S:from:
?S: This variable contains the command used by Configure
?S: to copy files from the target host.  Useful
 and available
?S: only during Perl build.
```

```
?S: The string ':' if not cross-compiling.
?S:.
?S:to:
?S: This variable contains the command used by Configure
?S: to copy to from the target host.  Useful and available
?S: only during Perl build.
?S: The string ':' if not cross-compiling.
?S:.
?S:targetarch:
?S: If cross-compiling, this variable contains the target architecture.
?S: If not, this will be empty.
?S:.
?S:targetdir:
?S: This variable contains a path that will be created on the target
?S: host using targetmkdir, and then used to copy the cross-compiled
?S: executables to. Defaults to '/tmp' if not set.
?S:.
?S:targetmkdir:
?S: This variable contains the command used by Configure to create a
?S: new directory on the target host.
?S:.
?S:targethost:
?S: This variable contains the name of a separate host machine that
?S: can be used to run compiled test programs and perl tests on.
?S: Set to empty string if not in use.
?S:.
?S:targetport:
?S: This variable contains the number
 of a network port to be used to
?S: connect to the host in targethost, if unset defaults to 22 for ssh.
?S:.
?S:hostperl:
?S: This variable contains the path to a miniperl binary that can be
?S: run on the host OS when cross-compiling.  Useful and available only
?S: during Perl build.
?S: Empty string '' if not cross-compiling.
?S:.
?S:hostgenerate:
?S: This variable contains the path to a generate_uudmap binary that
?S: can be run on the host OS when cross-compiling.  Useful and
?S: available only during Perl build.
?S: Empty string '' if not cross-compiling.
?S:.
?S:hostosname:
?S: This variable contains the original value of '$^O' for hostperl
?S: when cross-compiling.  This is useful to pick the proper tools
?S: when running build code in the host.
?S: Empty string '' if not cross-compiling.
```

```
?S:.
?S:targetenv:
?S: If cross-compiling, this variable can be used to modify the
?S: environment on the target system.
?S: However, how and where it's used, and even if it's used at all, is
?S: entirely
 dependent on both the transport mechanism (targetrun) and
?S: what the target system is.  Unless the relevant documentation says
?S: otherwise, it is genereally not useful.
?S:.
?C:USE_CROSS_COMPILE:
?C: This symbol, if defined, indicates that Perl is being cross-compiled.
?C:.
?C:PERL_TARGETARCH:
?C: This symbol, if defined, indicates the target architecture
?C: Perl has been cross-compiled to.  Undefined if not a cross-compile.
?C:.
?H:?%<:#ifndef USE_CROSS_COMPILE
?H:?%<:#$usecrosscompile USE_CROSS_COMPILE /**/
?H:?%<:#define PERL_TARGETARCH "$targetarch" /**/
?H:?%<:#endif
?H:.
?D:targetenv="
?D:targethost="
?D:targetmkdir="
?T:croak pwd exe f q cwd file xxx env
?LINT:extern usecrosscompile
?LINT:extern cc
?LINT:extern usrinc
?LINT:change ar
?LINT:change nm
?LINT:change ranlib
?LINT:change src
?LINT:extern targetenv
?LINT:extern targetport
?LINT:extern targetdir
?LINT:extern targetuser
?LINT:change targetuser
?LINT:extern targetrun
?LINT:extern targetfrom
?LINT:extern
 targetto
?LINT:change targetrun
?LINT:change targetfrom
?LINT:change targetto
?LINT:extern incpth
?LINT:extern libpth
?LINT:extern locincpth
```

```
?LINT:extern loclibpth
?LINT:change locincpth
?LINT:change loclibpth
?LINT:extern hostperl
?LINT:extern hostgenerate
?LINT:extern before_host
?LINT:change before_host
?LINT:extern hostosname
?LINT:extern multiarch
: Check for Cross-Compilation
?X: targethost and targetenv mainly set to allow ?S: documentation
?X:otherwise it could have been declared extern
if $test "X$targethost" = "X"; then
   targethost=""
fi
if $test "X$targetenv" = "X"; then
   targetenv=""
fi
case "$usecrosscompile" in
$define|true|[yY]*)
 $echo "Cross-compiling..."
 croak=''
 case "$cc" in
 *-gcc*|*-g++*) # A cross-compiling gcc, probably.
     # arm-linux-androideabi-gcc  -> arm-linux-androideabi
     # x86_64-w64-mingw32-gcc.exe -> x86_64-w64-mingw32
     targetarch=`$echo $cc|$sed 's/-g[c\+][c\+].*$//'`
     ar=`$echo $cc|$sed 's/-g[c\+][c\+]/-ar/'`
     # leave out ld,
 choosing it is more complex
     nm=`$echo $cc|$sed 's/-g[c\+][c\+]/-nm/'`
     ranlib=`$echo $cc|$sed 's/-g[c\+][c\+]/-ranlib/'`
     # We are in a weird spot. Just before us, some values
     # were 'saved', to be restored after the hints are
     # run.  This means that the changes we made to ar,
     # nm and ranlib will get reverted.
     # To avoid that, we hijack the saving mechanism and
     # have it save our new values.
     for file in ar nm ranlib; do
  eval xxx=\$$file
  eval $file=$xxx$_exe
  eval _$file=$xxx
     done
 ;;
 esac
 case "$targetarch" in
 '') echo "Targetarch not defined." >&4; croak=y ;;
 *)  echo "Using targetarch $targetarch." >&4 ;;
```

```
 esac
 case "$targethost" in
 ") echo "Targethost not defined." >&4; croak=n ;;
 *)  echo "Using targethost $targethost." >&4
 esac
 locincpth=' '
 loclibpth=' '
 case "$croak" in
 y) echo "Cannot continue, aborting." >&4; exit 1 ;;
 esac
   : compile a host miniperl and generate_uudmap, unless we got passed them
   if
 $test "X$hostperl" = X; then
     echo "Building host miniperl and generate_uudmap binaries" >&4
     before_host=`pwd`
     cd ..
     cd $src
     src=`pwd`
     rm -rf $src/host
     mkdir $src/host
     cd $src/host
     $src/Configure -des -Dusedevel -Dmksymlinks
     $make miniperl
     case "$hostgenerate" in
     ") $make generate_uudmap
         hostgenerate=$src/host/generate_uudmap
         ;;
      "$undef") hostgenerate="
         ;;
     esac
     hostperl=$src/host/miniperl
     cd $before_host
   fi
   hostosname=`$hostperl -le 'print $^O'`
   ;;
*)
   usecrosscompile="$undef"
   ;;
esac

: Define -Dtargethost=somecomputer to run compiled tests on another machine
case "$targethost" in
   ") echo "Checking for cross-compile" >&4
   case "$usecrosscompile$multiarch" in
      *$define*) echo "Skipping the try tests in the rest of Configure as no targethost was defined when cross-
compiling" >&4
        if [ -f Makefile ]; then
          echo
```

```
" "
        echo "Now you must ensure config.sh, config.h and the generated headers exist and run a $make."
      else
        echo "Configure done."
      fi
    exit 0
    ;;
  *) echo "No targethost for running compiler tests against defined, running locally" >&4
     run="
     to=:
     from=:
     ;;
  esac
  ;;
  *) echo "Using targethost $targethost." >&4
case "$src" in
/*) run=$src/Cross/run
   targetmkdir=$src/Cross/mkdir
   to=$src/Cross/to
   from=$src/Cross/from
   ;;
*)  pwd=`$test -f ../Configure & cd ..; pwd`
   run=$pwd/Cross/run
   targetmkdir=$pwd/Cross/mkdir
   to=$pwd/Cross/to
   from=$pwd/Cross/from
   ;;
esac
case "$targetrun" in
") targetrun=ssh ;;
esac
case "$targetto" in
") targetto=scp ;;
esac
case "$targetfrom" in
") targetfrom=scp ;;
esac
run=$run-$targetrun
to=$to-$targetto
from=$from-$targetfrom
case "$targetdir" in
")  targetdir=/tmp
    echo "Guessing targetdir $targetdir."
>&4
    ;;
esac
case "$targetuser" in
")  targetuser=root
```

```
     echo "Guessing targetuser $targetuser." >&4
     ;;
 esac
 case "$targetport" in
 ")  targetport=22
     echo "Guessing targetport $targetport." >&4
     ;;
 esac
 case "$targetfrom" in
 scp) q=-q ;;
 *) q=" ;;
 esac
 case "$targetrun" in
 ssh|rsh)
    cat >$run <<EOF
#!/bin/sh
env="
case "\$1" in
-cwd)
 shift
 cwd=\$1
 shift
 ;;
esac
case "\$1" in
-env)
 shift
 env=\$1
 shift
 ;;
esac
case "\$cwd" in
") cwd=$targetdir ;;
esac
exe=\$1
shift
$to \$exe
$targetrun -p $targetport -l $targetuser $targethost "cd \$cwd && \$env \$exe \$@"
EOF
    ;;
 adb)
    $touch $run
    ;;
 *)  echo "Unknown targetrun '$targetrun'" >&4
    exit 1
    ;;
 esac
 case "$targetmkdir" in
```

```
 */Cross/mkdir)
     cat >$targetmkdir <<EOF
#!/bin/sh
$targetrun -p $targetport -l $targetuser $targethost "mkdir -p \$@"
EOF
     $chmod a+rx $targetmkdir
     ;;
 *)  echo "Unknown targetmkdir '$targetmkdir'" >&4
     exit 1
     ;;
 esac
 case
 "$targetto" in
 scp|rcp)
     cat >$to <<EOF
#!/bin/sh
for f in \$@
do
 case "\$f" in
 /*)
   $targetmkdir \`dirname \$f\`
   $targetto -P $targetport -r $q \$f $targetuser@$targethost:\$f          2>/dev/null  || exit 1
   ;;
 *)
   $targetmkdir $targetdir/\`dirname \$f\`
   $targetto -P $targetport -r $q \$f $targetuser@$targethost:$targetdir/\$f 2>/dev/null || exit 1
   ;;
 esac
done
exit 0
EOF
     ;;
 cp) cat >$to <<EOF
#!/bin/sh
for f in \$@
do
 case "\$f" in
 /*)
   $mkdir -p $targetdir/\`dirname \$f\`
   $cp \$f $targetdir/\$f || exit 1
   ;;
 *)
   $targetmkdir $targetdir/\`dirname \$f\`
   $cp \$f $targetdir/\$f || exit 1
   ;;
 esac
done
exit 0
```

```
EOF
    ;;
 *)  echo "Unknown targetto '$targetto'" >&4
    exit 1
    ;;
 esac
 case "$targetfrom" in
 scp|rcp)
   cat >$from <<EOF
#!/bin/sh
for f in \$@
do
 $rm -f \$f
 $targetfrom -P $targetport $q $targetuser@$targethost:$targetdir/\$f . || exit 1
done
exit 0
EOF
    ;;
 cp) cat >$from <<EOF
#!/bin/sh
for
 f in \$@
do
 $rm -f \$f
 cp $targetdir/\$f . || exit 1
done
exit 0
EOF
    ;;
 *)  echo "Unknown targetfrom '$targetfrom'" >&4
    exit 1
    ;;
 esac
 if $test ! -f $run; then
    echo "Target 'run' script '$run' not found." >&4
 else
    $chmod a+rx $run
 fi
 if $test ! -f $to; then
    echo "Target 'to' script '$to' not found." >&4
 else
    $chmod a+rx $to
 fi
 if $test ! -f $from; then
    echo "Target 'from' script '$from' not found." >&4
 else
    $chmod a+rx $from
 fi
```

```
 if $test ! -f $run -o ! -f $to -o ! -f $from; then
     exit 1
 fi
 cat >&4 <<EOF
Using '$run' for remote execution,
and '$from' and '$to'
for remote file transfer.
EOF
 ;;
*) run="
 to=:
 from=:
 usecrosscompile="$undef"
 targetarch="
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/Cross.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_portable.U,v $
?RCS: Revision 3.0.1.2  1995/01/11  15:28:52  ram
?RCS: patch45: executable path stripping moved to the end in Config_sh.U
?RCS:
?RCS: Revision 3.0.1.1  1993/12/15  08:21:17  ram
?RCS: patch15: did not strip variables properly when needed
?RCS: patch15: now also strips down variables from trylist
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The Loc unit is wanted to get the definition of all the locating variables.
?X:
?MAKE:d_portable:
```

```
 cat Loc Myread Oldconfig
?MAKE: -pick add $@ %<
?S:d_portable:
?S: This variable conditionally defines the PORTABLE symbol, which
?S: indicates to the C program that it should not assume that it is
?S: running on the machine it was compiled on.
?S:.
?C:PORTABLE:
?C: This symbol, if defined, indicates to the C program that it should
?C: not assume that it is running on the machine it was compiled on.
?C: The program should be prepared to look up the host name, translate
?C: generic filenames, use PATH, etc.
?C:.
?H:#$d_portable PORTABLE /**/
?H:.
?D:d_portable="
: decide how portable to be
case "$d_portable" in
"$define") dflt=y;;
*) dflt=n;;
esac
$cat <<'EOH'

I can set things up so that your shell scripts and binaries are more portable,
at what may be a noticable cost in performance.  In particular, if you
ask to be portable, the following happens:

    1) Shell scripts will rely on the PATH variable rather than using
 the paths derived above.
    2) ~username
 interpretations will be done at run time rather than
 by Configure.
@if PHOSTNAME
    3) The system name will be determined at run time, if at all possible.
@end

EOH
rp="Do you expect to run these scripts and binaries on multiple machines?"
. ./myread
case "$ans" in
 y*) d_portable="$define"
?X:
?X: Paths will be stripped down (/usr/bin/vi -> vi) in Config_sh.U if needed.
?X:
 ;;
 *)  d_portable="$undef" ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_portable.U
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```
?RCS: $Id: d_wcstombs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_wcstombs.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_wcstombs: Inlibc
?MAKE: -pick add $@ %<
?S:d_wcstombs:
?S: This variable conditionally defines the HAS_WCSTOMBS symbol, which
?S: indicates to the C program that the wcstombs() routine is available
?S: to convert wide character strings to multibyte strings.
?S:.
?C:HAS_WCSTOMBS:
?C: This symbol, if defined, indicates that the wcstombs
 routine is
?C: available to convert wide character strings to multibyte strings.
?C:.
?H:#$d_wcstombs HAS_WCSTOMBS /**/
?H:.
?LINT:set d_wcstombs
: see if wcstombs exists
set wcstombs d_wcstombs
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_wcstombs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: alignbytes.U,v 3.0.1.2 1994/10/29 16:02:28 ram Exp $
?RCS:
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```

```
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: alignbytes.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:02:28  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:25:20  ram
?RCS: patch23: avoid ALIGNBYTES, since it conflicts on NetBSD
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:23  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:alignbytes: Myread Compile cat rm_try multiarch run test nvtype
?MAKE: -pick add $@ %<
?S:alignbytes:
?S: This
 variable holds the number of bytes required to align a
?S: double-- or a long double when applicable. Usual values are
?S: 2, 4 and 8.  The default is eight, for safety.
?S:.
?X: This used to be called ALIGNBYTES, but that conflicts with
?X: <machines/param.h> in NetBSD.
?C:MEM_ALIGNBYTES (ALIGNBYTES):
?C: This symbol contains the number of bytes required to align a
?C: double, or a long double when applicable. Usual values are 2,
?C: 4 and 8. The default is eight, for safety.  For cross-compiling
?C: or multiarch support, Configure will set a minimum of 8.
?C:.
?H:?%<:#define MEM_ALIGNBYTES $alignbytes
?H:.
?F:!try
: check for alignment requirements
echo " "
case "$alignbytes" in
   ") echo "Checking alignment constraints..." >&4
 $cat >try.c <<EOCP
#include <stdio.h>
struct foobar {
   char foo;
   $nvtype bar;
} try_algn;
int main()
{
   printf("%d\n", (int)((char *)&try_algn.bar - (char *)&try_algn.foo));
   return(0);
```

```
}
EOCP
 set try
 if eval $compile_ok; then
     dflt=`$run
 ./try`
 else
     dflt='8'
     echo "(I can't seem to compile the test program...)"
 fi
 case "$multiarch" in
     *$define*)
  : The usual safe value is 8, but Darwin with -Duselongdouble
  : needs 16.  Hence, we will take 8 as a minimum, but allow
  : Configure to pick a larger value if needed.
  if $test "$dflt" -lt 8; then
      dflt='8'
      echo "Setting alignment to 8 for multiarch support.">&4
  fi
  ;;
 esac
 ;;
   *) dflt="$alignbytes"
 ;;
esac
rp="Doubles must be aligned on a how-many-byte boundary?"
. ./myread
alignbytes="$ans"
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/alignbytes.U
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```
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?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?MAKE:gccversion gccosandvers: cat cpp rm +cc \
```

```
 Myread Guess Options Oldconfig Loc osname osvers grep run ccname
?MAKE: -pick add $@ %<
?S:gccversion:
?S: If GNU cc (gcc) is used, this variable holds '1' or '3' (for instance)
?S: to indicate whether the compiler is version 1 or 3.  This is used in
?S: setting some of the default cflags.  It is set to '' if not gcc.
?S:.
?S:gccosandvers:
?S: If GNU cc (gcc) is used, this variable the operating system and
?S: version
 used to compile the gcc.  It is set to '' if not gcc,
?S: or if nothing useful can be parsed as the os version.
?S:.
?T:gccshortvers incdir d
?F:!try.c !try
?LINT:extern locincpth ccflags ldflags
?LINT:change locincpth ccname cpp
: Check whether they have gcc in any guise.
echo " "
echo "Checking for GNU cc in disguise and/or its version number..." >&4
$cat >try.c <<EOM
#include <stdio.h>
int main() {
#ifdef __GNUC__
#ifdef __VERSION__
 printf("%s\n", __VERSION__);
#else
 printf("%s\n", "1");
#endif
#endif
 exit(0);
}
EOM
if $cc -o try $ccflags $ldflags try.c >/dev/null 2>&1; then
 gccversion=`$run ./try`
 case "$gccversion" in
 '') echo "You are not using GNU cc." ;;
 *)  echo "You are using GNU cc $gccversion."
     ccname=gcc
     ;;
 esac
else
 echo " "
 echo "*** WHOA THERE!!! ***" >&4
 echo "    Your C compiler \"$cc\" doesn't seem to be working!" >&4
?X: using -K will prevent aborting--maybe they're cross compiling?
 case "$knowitall" in
 '')
```

```
 echo "    You'd better
 start hunting for one and let me know about it." >&4
  exit 1
  ;;
 esac
fi
$rm -f try try.*
case "$gccversion" in
1*) cpp=`./loc gcc-cpp $cpp $pth` ;;
esac
case "$gccversion" in
") gccosandvers=" ;;
*) gccshortvers=`echo "$gccversion"|sed 's/ .*//'`
  gccosandvers=`$cc -v 2>&1 | \
 $grep '/specs$'|sed "s!.*/[^-/]*-[^-/]*-\([^-/]*\)/$gccshortvers/specs!\1!"`
  gccshortvers="
  case "$gccosandvers" in
  $osname) gccosandvers=" ;; # linux gccs seem to have no linux osvers, grr
  $osname$osvers) ;; # looking good
  $osname*) cat <<EOM >&4

*** WHOA THERE!!! ***

   Your gcc has not been compiled for the exact release of
   your operating system ($gccosandvers versus $osname$osvers).

   In general it is a good idea to keep gcc synchronized with
   the operating system because otherwise serious problems
   may ensue when trying to compile software, like Perl.

   I'm trying to be optimistic here, though, and will continue.
   If later during the configuration and build icky
 compilation
   problems appear (headerfile conflicts being the most common
   manifestation), I suggest reinstalling the gcc to match
   your operating system release.

EOM
     ;;
  *) gccosandvers=" ;; # failed to parse, better be silent
  esac
  ;;
esac
case "$ccname" in
") ccname="$cc" ;;
esac

: gcc 3.1 complains about adding -Idirectories that it already knows about,
```

```
: so we will take those off from locincpth.
case "$gccversion" in
3*)
   echo "main(){}">try.c
   for incdir in `$cc -v -c try.c 2>&1 | \
      sed '1,/^#include <\.\.\.>/d;/^End of search list/,$d;s/^ //'` ; do
      locincpth=`echo $locincpth | sed s!$incdir!!`
   done
   $rm -f try try.*
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/gccvers.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Init.U,v $
?RCS: Revision 3.0.1.1  1994/10/31  09:45:59  ram
?RCS: patch44: removed Options from MAKE to prevent Init overrides
?RCS: patch44: option processing now done after Myinit thanks to new Begin.U
?RCS: patch44: moved "Beginning of configuration questions" to Begin.U
?RCS: patch44: moved signal trapping instruction to Begin.U as well
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file initializes certain default variables
 used by Configure.  They
?X: may be overridden or added to by definitions in Myinit.U.
?X:
?MAKE:Init eunicefix _exe: Null
?MAKE: -pick add $@ %<
?MAKE: -pick weed $@ ./Init
?S:eunicefix:
?S: When running under Eunice this variable contains a command which will
?S: convert a shell script to the proper form of text file for it to be
?S: executable by the shell.  On other systems it is a no-op.
```

```
?S:.
?S:_exe (exe_ext):
?S: This variable defines the extension used for executable files.
?S: For unix it is empty.  Other possible values include '.exe'.
?S: DJGPP, Cygwin and OS/2 use '.exe'.  Stratus VOS uses '.pm'.
?S: On operating systems which do not require a specific extension
?S: for executable files, this variable is empty.
?S:.
?V:define undef smallmach:rmlist
?X:
?X: Throughout the units, one may make use of $define and $undef to reference
?X: a defined symbol or an undefined one. There is no need to add them in
?X: the dependency line since this unit makes them visible via ?V:, and
?X:
 everyone inherits from those symbols since by convention Init.U is the
?X: root dependency.
?X:
?T: DJGPP
: Initialize wide constants
define='define'
undef='undef'
smallmach='pdp11 i8086 z8000 i80286 iAPX286'
rmlist=''

: We must find out about Eunice early
eunicefix=':'
if test -f /etc/unixtovms; then
 eunicefix=/etc/unixtovms
fi
if test -f /etc/unixtovms.exe; then
 eunicefix=/etc/unixtovms.exe
fi

: Set executable suffix now -- needed before hints available
if test -f "/libs/version.library"; then
 : Amiga OS
  _exe=""
elif test -f "/system/gnu_library/bin/ar.pm"; then
 : Stratus VOS
 _exe=".pm"
elif test -n "$DJGPP"; then
 : DOS DJGPP
  _exe=".exe"
elif test -d c:/. ; then
 : OS/2 or cygwin
 _exe=".exe"
else
 : All other UNIX systems
```

```
 _exe=""
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Init.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_times.U,v 3.0.1.2 1995/07/25 14:07:50 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_times.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:07:50  ram
?RCS: patch56: typo fix, sytem -> system
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:14:00  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: What is the type returned by times() ?
?X:
?X: Force inclusion of <sys/types.h>
?X:INC: i_systypes
?MAKE:d_times clocktype:
 Csym Myread Typedef i_systimes
?MAKE: -pick add $@ %<
?S:d_times:
?S: This variable conditionally defines the HAS_TIMES symbol, which indicates
?S: that the times() routine exists.  The times() routine is normally
?S: provided on UNIX systems. You may have to include <sys/times.h>.
?S:.
?S:clocktype:
?S: This variable holds the type returned by times(). It can be long,
?S: or clock_t on BSD sites (in which case <sys/types.h> should be
?S: included).
?S:.
?C:HAS_TIMES (TIMES):
?C: This symbol, if defined, indicates that the times() routine exists.
```

```
?C: Note that this became obsolete on some systems (SUNOS), which now
?C: use getrusage(). It may be necessary to include <sys/times.h>.
?C:.
?C:Clock_t (CLOCKTYPE):
?C: This symbol holds the type returned by times(). It can be long,
?C: or clock_t on BSD sites (in which case <sys/types.h> should be
?C: included).
?C:.
?H:#$d_times HAS_TIMES  /**/
?H:#define Clock_t $clocktype /* Clock time */
?H:.
?T:val inc
: see if times exists
echo "
 "
if set times val -f d_times; eval $csym; $val; then
 echo 'times() found.' >&4
 d_times="$define"
 inc=''
 case "$i_systimes" in
 "$define") inc='sys/times.h';;
 esac
 rp="What is the type returned by times() on this system?"
 set clock_t clocktype long stdio.h sys/types.h $inc
 eval $typedef_ask
else
 echo 'times() NOT found, hope that will do.' >&4
 d_times="$undef"
?X: The following is needed for typedef (won't like an empty variable)
 clocktype='int'
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/d_times.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Oldconfig.U,v $
```

```
?RCS: Revision 3.0.1.10  1997/02/28  15:06:39  ram
?RCS: patch61: added support for src.U
?RCS: patch61: new OSNAME define
?RCS: patch61: can now sense new OSes
?RCS:
?RCS: Revision 3.0.1.9  1995/07/25  13:40:51  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.8  1995/05/12  12:04:18  ram
?RCS: patch54: config.sh reload logic now knows about new -K switch
?RCS: patch54: cleaned up and extended osvers for DEC OSF/1 (ADO)
?RCS: patch54: added MachTen detection
 (ADO)
?RCS:
?RCS: Revision 3.0.1.7  1995/02/15  14:13:41  ram
?RCS: patch51: adapted osvers computation for AIX (ADO)
?RCS:
?RCS: Revision 3.0.1.6  1995/01/30  14:27:15  ram
?RCS: patch49: unit Options.U now exports file optdef.sh, not a variable
?RCS: patch49: update code for myuname changed (WED)
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:15:36  ram
?RCS: patch45: added quotes around the INITPROG variable (ADO)
?RCS: patch45: allows variable overriding after config file loading
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  15:57:05  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: merged with the version used for perl5's Configure (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/05/06  14:24:17  ram
?RCS: patch23: added support for osf1 hints
?RCS: patch23: new support for solaris and i386 systems (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:05:02  ram
?RCS: patch16: added post-processing on myuname for Xenix targets
?RCS: patch16: message proposing config.sh
 defaults made consistent
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  15:56:32  ram
?RCS: patch10: force use of config.sh when -d option is used (WAD)
?RCS: patch10: complain about non-existent hint files (WAD)
?RCS: patch10: added Options dependency for fastread variable
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:12  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit tries to remember what we did last time we ran Configure, mostly
```

```
?X: for the sake of setting defaults.
?X:
?MAKE:Oldconfig hint myuname osname osvers: Instruct Myread Checkcc \
 Mksymlinks Loc Options Tr src trnl ln uname sh awk sed test cat grep \
 rm lns tr n c contains targetarch
?MAKE: -pick wipe $@ %<
?S:myuname:
?S: The output of 'uname -a' if available, otherwise the hostname. On Xenix,
?S: pseudo variables assignments in the output are stripped, thank you. The
?S: whole thing is then lower-cased.
?S:.
?S:hint:
?S: Gives the type of hints used for previous answers. May be one of
?S: "default",
 "recommended" or "previous".
?S:.
?S:osname:
?S: This variable contains the operating system name (e.g. sunos,
?S: solaris, hpux, etc.).  It can be useful later on for setting
?S: defaults.  Any spaces are replaced with underscores.  It is set
?S: to a null string if we can't figure it out.
?S:.
?S:osvers:
?S: This variable contains the operating system version (e.g.
?S: 4.1.3, 5.2, etc.).  It is primarily used for helping select
?S: an appropriate hints file, but might be useful elsewhere for
?S: setting defaults.  It is set to '' if we can't figure it out.
?S: We try to be flexible about how much of the version number
?S: to keep, e.g. if 4.1.1, 4.1.2, and 4.1.3 are essentially the
?S: same for this package, hints files might just be os_4.0 or
?S: os_4.1, etc., not keeping separate files for each little release.
?S:.
?C:OSNAME:
?C: This symbol contains the name of the operating system, as determined
?C: by Configure.  You shouldn't rely on it too much; the specific
?C: feature
 tests from Configure are generally more reliable.
?C:.
?C:OSVERS:
?C: This symbol contains the version of the operating system, as determined
?C: by Configure.  You shouldn't rely on it too much; the specific
?C: feature tests from Configure are generally more reliable.
?C:.
?H:#define OSNAME "$osname"  /**/
?H:#define OSVERS "$osvers"  /**/
?H:.
?F:!config.sh
?T:tmp tmp_n tmp_c tmp_sh file
```

```
?T:xxxxfile xxxfile xxfile xfile hintfile newmyuname
?T:tans _ isesix INITPROG DJGPP has_uname
?D:osname=''
?LINT:change n c sh
?LINT:extern hostarch
?LINT:change hostarch
: Determine the name of the machine
myuname=`$uname -a 2>/dev/null`
$test -z "$myuname" && myuname=`hostname 2>/dev/null`
?X: Special mention for Xenix, whose 'uname -a' gives us output like this:
?X:  sysname=XENIX
?X:  nodename=whatever
?X:  release=2.3.2 .. etc...
?X: Therefore, we strip all this variable assignment junk and remove all the
?X: new lines to keep the myuname variable sane... --RAM
myuname=`echo $myuname | $sed -e
 's/^[^=]*=//' -e 's/\///g' | \
 ./tr '[A-Z]' '[a-z]' | $tr $trnl ' '`
?X: Save the value we just computed to reset myuname after we get done here.
newmyuname="$myuname"
$test -f "$uname$_exe" && has_uname=y

: Guessing of the OS name -- half the following guesses are probably wrong...
: If you have better tests or hints, please send them to the metaconfig
: authors and to <MAINTLOC>
$test -f /irix && osname=irix
$test -f /xenix && osname=sco_xenix
$test -f /dynix && osname=dynix
$test -f /dnix && osname=dnix
$test -f /lynx.os && osname=lynxos
$test -f /unicos && osname=unicos && osvers=`$uname -r`
$test -f /unicosmk && osname=unicosmk && osvers=`$uname -r`
$test -f /unicosmk.ar && osname=unicosmk && osvers=`$uname -r`
$test -f /bin/mips && /bin/mips && osname=mips
$test -d /NextApps && set X `hostinfo | $grep 'NeXT Mach.*:' | \
 $sed -e 's/://' -e 's/\./_/'` && osname=next && osvers=$4
$test -d /usr/apollo/bin && osname=apollo
$test -f /etc/saf/_sactab && osname=svr4
$test -d /usr/include/minix
 && osname=minix
$test -f /system/gnu_library/bin/ar.pm && osname=vos
if $test -d /MachTen -o -d /MachTen_Folder; then
?X:  MachTen uname -a output looks like
?X:  xxx 4 0.0 Macintosh
?X:  MachTen /sbin/version output looks like
?X:  MachTen 4.0 Mon Aug 28 10:18:00 1995
?X:  MachTen 3.x had the 'version' command in /usr/etc/version.
 osname=machten
```

```
 if $test -x /sbin/version; then
  osvers=`/sbin/version | $awk '{print $2}' |
  $sed -e 's/[A-Za-z]$//'`
 elif $test -x /usr/etc/version; then
  osvers=`/usr/etc/version | $awk '{print $2}' |
  $sed -e 's/[A-Za-z]$//'`
 else
  osvers="$2.$3"
 fi
fi
$test -f /sys/posix.dll &&
 $test -f /usr/bin/what &&
 set X `/usr/bin/what /sys/posix.dll` &&
 $test "$3" = UWIN &&
 osname=uwin &&
 osvers="$5"
?X: If we have uname, we already computed a suitable uname -a output, correctly
?X: formatted for Xenix, and it lies in $myuname.
if $test "X$has_uname" != X; then
 set X $myuname
 shift
 case "$5" in
 fps*) osname=fps ;;
 mips*)
  case "$4"
 in
  umips) osname=umips ;;
  *) osname=mips ;;
  esac;;
 [23]100) osname=mips ;;
 next*) osname=next ;;
?X: Interactive Unix.
 i386*)
  tmp=`/bin/uname -X 2>/dev/null|awk '/3\.2v[45]/{ print $(NF) }'`
  if $test "$tmp" != "" -a "$3" = "3.2" -a -f '/etc/systemid'; then
   osname='sco'
   osvers=$tmp
  elif $test -f /etc/kconfig; then
   osname=isc
   if $test "$lns" = "$ln -s"; then
    osvers=4
   elif $contains _SYSV3 /usr/include/stdio.h > /dev/null 2>&1 ; then
    osvers=3
   elif $contains _POSIX_SOURCE /usr/include/stdio.h > /dev/null 2>&1 ; then
    osvers=2
   fi
  fi
  tmp="
```

```
  ;;
?X: MS-DOS djgpp uname -a output looks like:
?X: ms-dos xxx 6 22 pc
?X:  $1 is the "dos flavor" (need not be "ms-dos").
?X:  $2 is the node name
?X:  $3 and $4 are version/subversion
?X:  $5 is always "pc", but that might not be unique to DJGPP.
?X: (e.g. Solaris_x86 has $5 = i86pc, which doesn't actually conflict,
?X: but it's close enought that I can easily imagine other vendors also
?X: using variants
 of pc* in $5.)
?X:  The "DJGPP" environment variable is always set when djgpp is active.
 pc*)
  if $test -n "$DJGPP"; then
   osname=dos
   osvers=djgpp
  fi
  ;;
 esac
 case "$1" in
 aix) osname=aix
?X: aix 4.1 uname -a output looks like
?X:  AIX  foo  1 4 000123456789
?X: where $4 is the major release number and $3 is the (minor) version.
?X: More detail on the version is available with the oslevel command.
?X: in 3.2.x, it output a string (see case statements below).  In 4.1,
?X: it puts out something like  4.1.1.0
  tmp=`( (oslevel) 2>/dev/null || echo "not found") 2>&1`
  case "$tmp" in
  'not found') osvers="$4"."$3" ;;
  '<3240'|'<>3240') osvers=3.2.0 ;;
  '=3240'|'>3240'|'<3250'|'<>3250') osvers=3.2.4 ;;
  '=3250'|'>3250') osvers=3.2.5 ;;
  *) osvers=$tmp;;
  esac
  ;;
 bsd386) osname=bsd386
  osvers=`$uname -r`
  ;;
 cygwin*) osname=cygwin
  osvers="$3"
  ;;
 *dc.osx) osname=dcosx
  osvers="$3"
  ;;
 dnix) osname=dnix
  osvers="$3"
  ;;
```

```
 domainos) osname=apollo
  osvers="$3"
  ;;
 dgux)
 osname=dgux
  osvers="$3"
  ;;
?X:  uname -a returns
?X:  DYNIX/ptx xxx 4.0 V4.1.2 i386
 dynixptx*) osname=dynixptx
  osvers=`echo "$4"|sed 's/^v//'`
  ;;
 freebsd) osname=freebsd
  osvers="$3" ;;
 genix) osname=genix ;;
?X: HP-UX uname -a gives something like
?X: HP-UX foobar B.10.20 A 9000/735 2016483812 two-user license
?X: Preserve the full 10.20 string instead of the previous plain '10'.
?X:  Thanks to Graham Barr.    --AD 6/30/1998
 hp*) osname=hpux
  osvers=`echo "$3" | $sed 's,.*\.\([0-9]*\.[0-9]*\),\1,'`
  ;;
 irix*) osname=irix
  case "$3" in
  4*) osvers=4 ;;
  5*) osvers=5 ;;
  *) osvers="$3" ;;
  esac
  ;;
 linux) osname=linux
  case "$3" in
  *) osvers="$3" ;;
  esac
  ;;
 MiNT) osname=mint
  ;;
 netbsd*) osname=netbsd
  osvers="$3"
  ;;
 news-os) osvers="$3"
  case "$3" in
  4*) osname=newsos4 ;;
  *) osname=newsos ;;
  esac
  ;;
 next*) osname=next ;;
 nonstop-ux) osname=nonstopux ;;
 openbsd) osname=openbsd
```

```
   osvers="$3"
   ;;
 POSIX-BC | posix-bc
 ) osname=posix-bc
  osvers="$3"
  ;;
 powerux | power_ux | powermax_os | powermaxos | \
 powerunix | power_unix) osname=powerux
  osvers="$3"
  ;;
 qnx) osname=qnx
  osvers="$4"
  ;;
 solaris) osname=solaris
  case "$3" in
  5*) osvers=`echo $3 | $sed 's/^5/2/g'` ;;
  *) osvers="$3" ;;
  esac
  ;;
 sunos) osname=sunos
  case "$3" in
  5*) osname=solaris
   osvers=`echo $3 | $sed 's/^5/2/g'` ;;
  *) osvers="$3" ;;
  esac
  ;;
 titanos) osname=titanos
  case "$3" in
  1*) osvers=1 ;;
  2*) osvers=2 ;;
  3*) osvers=3 ;;
  4*) osvers=4 ;;
  *) osvers="$3" ;;
  esac
  ;;
 ultrix) osname=ultrix
  osvers="$3"
  ;;
 osf1|mls+) case "$5" in
  alpha)
?X: DEC OSF/1 myuname -a output looks like:  osf1 xxxx t3.2 123.4 alpha
?X: where the version number can be something like [xvt]n.n
   osname=dec_osf
?X: sizer knows the minor minor version: the letter
   osvers=`sizer -v | awk '{print $3}' | \
    ./tr '[A-Z]' '[a-z]' | sed 's/^[xvt]//'`
   case "$osvers" in
   [1-9].[0-9]*) ;;
```

```
  *) osvers=`echo
 "$3" | sed 's/^[xvt]//'` ;;
  esac
  ;;
 hp*) osname=hp_osf1 ;;
 mips) osname=mips_osf1 ;;
?X: hp and mips were unsupported Technology Releases -- ADO, 24/10/94
 esac
 ;;
 unixware) osname=svr5
 osvers="$4"
 ;;
 uts) osname=uts
 osvers="$3"
 ;;
 vos) osvers="$3"
 ;;
 $2) case "$osname" in
 *isc*) ;;
 *freebsd*) ;;
 svr*)
  : svr4.x or possibly later
  case "svr$3" in
  ${osname}*)
   osname=svr$3
   osvers=$4
   ;;
  esac
  case "$osname" in
  svr4.0)
   : Check for ESIX
   if $test -f /stand/boot ; then
    eval `$grep '^INITPROG=[a-z/0-9]*$' /stand/boot`
    if $test -n "$INITPROG" -a -f "$INITPROG"; then
     isesix=`strings -a $INITPROG | \
      $grep 'ESIX SYSTEM V/386 Release 4.0'`
     if $test -n "$isesix"; then
      osname=esix4
     fi
    fi
   fi
   ;;
  esac
  ;;
 *) if $test -f /etc/systemid; then
   osname=sco
   set `echo $3 | $sed 's/\./ /g'` $4
   if $test -f $src/hints/sco_$1_$2_$3.sh; then
```

```
    osvers=$1.$2.$3
   elif $test
 -f $src/hints/sco_$1_$2.sh; then
    osvers=$1.$2
   elif $test -f $src/hints/sco_$1.sh; then
    osvers=$1
   fi
  else
   case "$osname" in
   ") : Still unknown.  Probably a generic Sys V.
    osname="sysv"
    osvers="$3"
    ;;
   esac
  fi
  ;;
 esac
 ;;
 *) case "$osname" in
 ") : Still unknown.  Probably a generic BSD.
  osname="$1"
  osvers="$3"
  ;;
 esac
 ;;
 esac
else
?X: Try to identify sony's NEWS-OS (BSD unix)
 if $test -f /vmunix -a -f $src/hints/news_os.sh; then
  (what /vmunix | UU/tr '[A-Z]' '[a-z]') > UU/kernel.what 2>&1
  if $contains news-os UU/kernel.what >/dev/null 2>&1; then
   osname=news_os
  fi
  $rm -f UU/kernel.what
?X: Maybe it's OS/2 or DOS or something similar
 elif $test -d c:/.; then
  set X $myuname
  osname=os2
  osvers="$5"
 fi
fi

: Try to determine whether config.sh was made on this system
case "$config_sh" in
")
?X: indentation wrong on purpose--RAM
dflt=n
case "$knowitall" in
```

```
")
 if test -f ../config.sh; then
  if $contains
 myuname= ../config.sh >/dev/null 2>&1; then
   eval "`$grep myuname= ../config.sh`"
  fi
  if test "X$myuname" = "X$newmyuname"; then
   dflt=y
  fi
 fi
 ;;
*) dflt=y;;
esac

: Get old answers from config file if it was generated on the same system
hint=default
if $test -f ../config.sh; then
 echo " "
 rp="I see a config.sh file.  Shall I use it to set the defaults?"
 . ./myread
 case "$ans" in
 n*|N*) echo "OK, I'll ignore it."
  mv ../config.sh ../config.sh.old
  myuname="$newmyuname"
  ;;
 *)  echo "Fetching default answers from your old config.sh file..." >&4
  tmp_n="$n"
  tmp_c="$c"
  tmp_sh="$sh"
  . ../config.sh
  cp ../config.sh .
  n="$tmp_n"
  c="$tmp_c"
  hint=previous
  ;;
 esac
fi
?X: remember, case indentation is wrong--RAM
;;
*)
 echo " "
 echo "Fetching default answers from $config_sh..." >&4
 tmp_n="$n"
 tmp_c="$c"
 tmp_sh="$sh"
 cd ..
?X: preserve symbolic links, if any
 cp $config_sh config.sh 2>/dev/null
```

```
 chmod +w config.sh
 . ./config.sh
 cd UU
 cp ../config.sh
 .
 n="$tmp_n"
 c="$tmp_c"
 hint=previous
 ;;
esac
?X: Older versions did not always set $sh.
case "$sh" in
") sh="$tmp_sh" ;;
esac
$test "$override" && . ./optdef.sh

: Restore computed paths
for file in $loclist $trylist; do
 eval $file="\$_$file"
done

. ./checkcc
?X: Cross-compiling support
case "$targetarch" in
") ;;
*)  hostarch=$osname
 osname=`echo $targetarch|sed 's,^[^-]*-,,'`
 osvers="
 ;;
esac

@if {test -d ../hints}
: Offer them some hints based on their OS
cd ..
?X: Since we are now at the root of the source tree, we must use $src
?X: to access the sources and not $rsrc. See src.U for details...
if $test ! -f config.sh; then
 $cat <<EOM

First time through, eh?  I have some defaults handy for some systems
that need some extra help getting the Configure answers right:

EOM
 (cd $src/hints; ls -C *.sh) | $sed 's/\.sh/   /g' >&4
 dflt="

 : Now look for a hint file osname_osvers, unless one has been
 : specified already.
```

```
case "$hintfile" in
"|' ')
 file=`echo "${osname}_${osvers}"
| $sed -e 's%\.%_%g' -e 's%_$%%'`
 : Also try without trailing minor version numbers.
 xfile=`echo $file | $sed -e 's%_[^_]*$%%'`
 xxfile=`echo $xfile | $sed -e 's%_[^_]*$%%'`
 xxxfile=`echo $xxfile | $sed -e 's%_[^_]*$%%'`
 xxxxfile=`echo $xxxfile | $sed -e 's%_[^_]*$%%'`
 case "$file" in
 ") dflt=none ;;
 *)  case "$osvers" in
  ") dflt=$file
   ;;
  *)  if $test -f $src/hints/$file.sh ; then
    dflt=$file
   elif $test -f $src/hints/$xfile.sh ; then
    dflt=$xfile
   elif $test -f $src/hints/$xxfile.sh ; then
    dflt=$xxfile
   elif $test -f $src/hints/$xxxfile.sh ; then
    dflt=$xxxfile
   elif $test -f $src/hints/$xxxxfile.sh ; then
    dflt=$xxxxfile
   elif $test -f "$src/hints/${osname}.sh" ; then
    dflt="${osname}"
   else
    dflt=none
   fi
   ;;
  esac
  ;;
 esac
 if $test -f Policy.sh ; then
  case "$dflt" in
  *Policy*) ;;
  none) dflt="Policy" ;;
  *) dflt="Policy $dflt" ;;
  esac
 fi
 ;;
*)
 dflt=`echo
$hintfile | $sed 's/\.sh$//'`
 ;;
esac

if $test -f Policy.sh ; then
```

```
 $cat <<EOM

There's also a Policy hint file available, which should make the
site-specific (policy) questions easier to answer.
EOM

 fi

 $cat <<EOM

You may give one or more space-separated answers, or "none" if appropriate.
A well-behaved OS will have no hints, so answering "none" or just "Policy"
is a good thing.  DO NOT give a wrong version or a wrong OS.

EOM

 rp="Which of these apply, if any?"
 . UU/myread
 tans=$ans
 for file in $tans; do
  if $test X$file = XPolicy -a -f Policy.sh; then
   . Policy.sh
   $cat Policy.sh >> UU/config.sh
  elif $test -f $src/hints/$file.sh; then
   . $src/hints/$file.sh
   $cat $src/hints/$file.sh >> UU/config.sh
  elif $test X"$tans" = X -o X"$tans" = Xnone ; then
   : nothing
  else
   : Give one chance to correct a possible typo.
   echo "$file.sh does not exist"
   dflt=$file
   rp="hint to use instead?"
   . UU/myread
   for file in $ans; do
    if $test -f "$src/hints/$file.sh";
 then
     . $src/hints/$file.sh
     $cat $src/hints/$file.sh >> UU/config.sh
    elif $test X$ans = X -o X$ans = Xnone ; then
     : nothing
    else
     echo "$file.sh does not exist -- ignored."
    fi
   done
  fi
 done
```

```
 hint=recommended
 : Remember our hint file for later.
 if $test -f "$src/hints/$file.sh" ; then
  hintfile="$file"
 else
  hintfile=''
 fi
fi
cd UU
?X: From here on, we must use $rsrc instead of $src

@end
: Process their -A options
. ./posthint.sh

@if osname || osvers
: Ask them to confirm the OS name
cat << EOM

Configure uses the operating system name and version to set some defaults.
The default value is probably right if the name rings a bell. Otherwise,
since spelling matters for me, either accept the default or answer "none"
to leave it blank.

EOM
@end
@if osname
case "$osname" in
 ''|' ')
  case "$hintfile" in
  ''|' '|none) dflt=none ;;
  *)  dflt=`echo $hintfile | $sed -e 's/\.sh$//' -e 's/_.*$//'` ;;
  esac
  ;;
 *) dflt="$osname" ;;
esac
rp="Operating
 system name?"
. ./myread
case "$ans" in
none)  osname='' ;;
*) osname=`echo "$ans" | $sed -e 's/[  ][ ]*/_/g' | ./tr '[A-Z]' '[a-z]'`;;
esac
@end
@if osvers
@if osname
echo " "
@end
```

```
case "$osvers" in
 "|' ')
  case "$hintfile" in
  "|' '|none) dflt=none ;;
  *) dflt=`echo $hintfile | $sed -e 's/\.sh$//' -e 's/^[^_]*//'`
   dflt=`echo $dflt | $sed -e 's/^_//' -e 's/_/./g'`
   case "$dflt" in
   "|' ') dflt=none ;;
   esac
   ;;
  esac
  ;;
 *) dflt="$osvers" ;;
esac
rp="Operating system version?"
. ./myread
case "$ans" in
none)  osvers=" ;;
*) osvers="$ans" ;;
esac

@end
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Oldconfig.U
No license file was found, but licenses were detected in source scan.

```
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:uidsize: Myread Typedef uidtype Compile run i_stdlib
?MAKE: -pick add $@ %<
?S:uidsize:
?S: This variable contains the size of a uidtype in bytes.
?S:.
?C:Uid_t_size:
?C: This symbol holds the size of a Uid_t in bytes.
?C:.
?H:#define Uid_t_size $uidsize  /* UID size */
?H:.
?T:yyy zzz
```

```
?F:!try
: Check size of UID
echo " "
case "$uidtype" in
*_t) zzz="$uidtype" ;;
*)   zzz="uid"  ;;
esac
echo "Checking the size of $zzz..." >&4
cat > try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include
 <stdlib.h>
#endif
int main() {
   printf("%d\n", (int)sizeof($uidtype));
   exit(0);
}
EOCP
set try
if eval $compile_ok; then
 yyy=`$run ./try`
 case "$yyy" in
 ") uidsize=4
  echo "(I can't execute the test program--guessing $uidsize.)" >&4
  ;;
 *) uidsize=$yyy
  echo "Your $zzz is $uidsize bytes long."
  ;;
 esac
else
 uidsize=4
 echo "(I can't compile the test program--guessing $uidsize.)" >&4
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/uidsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sanemcmp.U,v 3.0.1.1 1997/02/28 15:41:19 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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```

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_sanemcmp.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:41:19  ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_sanemcmp: Compile cat d_memcmp rm_try run \
 i_memory i_stdlib i_string i_unistd Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_sanemcmp:
?S: This variable conditionally defines the HAS_SANE_MEMCMP symbol if
?S: the memcpy() routine is available and can be used to compare relative
?S: magnitudes of chars with their high bits set.
?S:.
?C:HAS_SANE_MEMCMP:
?C: This
 symbol, if defined, indicates that the memcmp routine is available
?C: and can be used to compare relative magnitudes of chars with their high
?C: bits set.  If it is not defined, roll your own version.
?C:.
?H:#$d_sanemcmp HAS_SANE_MEMCMP /**/
?H:.
?F:!try
?LINT: set d_sanemcmp
: can memcmp be trusted to compare relative magnitude?
?X: assume the worst
val="$undef"
case "$d_memcmp" in
"$define")
 echo " "
 echo "Checking if your memcmp() can compare relative magnitude..." >&4
 $cat >try.c <<EOCP
#$i_memory I_MEMORY
#$i_stdlib I_STDLIB
#$i_string I_STRING
#$i_unistd I_UNISTD
EOCP
 $cat >>try.c <<'EOCP'
#include <stdio.h>
#ifdef I_MEMORY
#  include <memory.h>
#endif
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
```

```
#ifdef I_STRING
#  include <string.h>
#else
#  include <strings.h>
#endif
#ifdef I_UNISTD
#  include <unistd.h>  /* Needed for NetBSD */
#endif
int main()
{
char a = -1;
char b = 0;
if ((a < b) && memcmp(&a, &b, 1) < 0)
 exit(1);
exit(0);
}
EOCP
 set try
 if eval
 $compile_ok; then
  if $run ./try 2>/dev/null; then
   echo "Yes, it can."
   val="$define"
  else
   echo "No, it can't (it uses signed chars)."
  fi
 else
  echo "(I can't compile the test program, so we'll assume not...)"
 fi
 ;;
esac
$rm_try
set d_sanemcmp
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_sanemcmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strtok.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strtok.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:38  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The strtok routine now appears to be a standard one, but it was
?X: missing in early BSD systems.
?X:
?MAKE:d_strtok: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtok:
?S: This variable conditionally defines HAS_STRTOK if strtok() is
?S: available to scan strings for tokens.
?S:.
?C:HAS_STRTOK (STRTOK):
?C: This symbol, if defined, indicates
 that the strtok routine is
?C: available to scan strings for tokens.
?C:.
?H:#$d_strtok HAS_STRTOK /**/
?H:.
?LINT:set d_strtok
: see if strtok exists
set strtok d_strtok
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strtok.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysmode.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysmode: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysmode:
?S: This variable conditionally defines the I_SYSMODE symbol,
?S: and indicates whether a C program should include <sys/mode.h>.
?S:.
?C:I_SYSMODE:
?C: This symbol, if defined, indicates that <sys/mode.h> exists and
```

```
?C: should be included.
?C:.
?H:#$i_sysmode I_SYSMODE  /**/
?H:.
?LINT:set i_sysmode
: see if this is a sys/mode.h system
set sys/mode.h i_sysmode
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_sysmode.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getspnam_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
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?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getspnam_r getspnam_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_shadow extern_C
?MAKE: -pick add $@ %<
?S:d_getspnam_r:
?S: This variable conditionally defines the HAS_GETSPNAM_R symbol,
?S: which indicates to the C program that the getspnam_r()
?S: routine is available.
?S:.
?S:getspnam_r_proto:
?S: This variable encodes the prototype of getspnam_r.
?S: It is zero if d_getspnam_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getspnam_r
?S: is defined.
?S:.
?C:HAS_GETSPNAM_R:
?C: This symbol, if defined, indicates that the getspnam_r routine
?C: is available
 to getspnam re-entrantly.
?C:.
?C:GETSPNAM_R_PROTO:
?C: This symbol encodes the prototype of getspnam_r.
?C: It is zero if d_getspnam_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getspnam_r
?C: is defined.
?C:.
?H:#$d_getspnam_r HAS_GETSPNAM_R /**/
```

```
?H:#define GETSPNAM_R_PROTO $getspnam_r_proto /**/
?H:.
?T:try hdrs d_getspnam_r_proto
: see if getspnam_r exists
set getspnam_r d_getspnam_r
eval $inlibc
case "$d_getspnam_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_shadow shadow.h"
 case "$d_getspnam_r_proto:$usethreads" in
 ":define") d_getspnam_r_proto=define
  set d_getspnam_r_proto getspnam_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getspnam_r_proto" in
 define)
 case "$getspnam_r_proto" in
 "|0) try='int getspnam_r(const char*, struct spwd*, char*, size_t, struct spwd**);'
 ./protochk "$extern_C $try" $hdrs && getspnam_r_proto=I_CSBWR ;;
 esac
 case "$getspnam_r_proto" in
 "|0) try='struct spwd* getspnam_r(const char*, struct
 spwd*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getspnam_r_proto=S_CSBI ;;
 esac
 case "$getspnam_r_proto" in
 "|0) d_getspnam_r=undef
  getspnam_r_proto=0
  echo "Disabling getspnam_r, cannot determine prototype." >&4 ;;
 * ) case "$getspnam_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getspnam_r_proto="REENTRANT_PROTO_$getspnam_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getspnam_r has no prototype, not using it." >&4 ;;
  esac
  d_getspnam_r=undef
  getspnam_r_proto=0
  ;;
 esac
 ;;
*) getspnam_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getspnam_r.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_times.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:07:50  ram
?RCS: patch56: typo fix, sytem -> system
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:14:00  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: What is the type returned by times() ?
?X:
?X: Force inclusion of <sys/types.h>
?X:INC: i_systypes
?MAKE:d_times clocktype: Csym Myread Typedef i_systimes
?MAKE: -pick
 add $@ %<
?S:d_times:
?S: This variable conditionally defines the HAS_TIMES symbol, which indicates
?S: that the times() routine exists.  The times() routine is normally
?S: provided on UNIX systems. You may have to include <sys/times.h>.
?S:.
?S:clocktype:
?S: This variable holds the type returned by times(). It can be long,
?S: or clock_t on BSD sites (in which case <sys/types.h> should be
?S: included).
?S:.
?C:HAS_TIMES (TIMES):
?C: This symbol, if defined, indicates that the times() routine exists.
?C: Note that this became obsolete on some systems (SUNOS), which now
?C: use getrusage(). It may be necessary to include <sys/times.h>.
```

```
?C:.
?C:Clock_t (CLOCKTYPE):
?C: This symbol holds the type returned by times(). It can be long,
?C: or clock_t on BSD sites (in which case <sys/types.h> should be
?C: included).
?C:.
?H:#$d_times HAS_TIMES  /**/
?H:#define Clock_t $clocktype /* Clock time */
?H:.
?T:val inc
: see if times exists
echo " "
if set times val -f d_times; eval $csym;
 $val; then
 echo 'times() found.' >&4
 d_times="$define"
 inc=''
 case "$i_systimes" in
 "$define") inc='sys/times.h';;
 esac
 set clock_t clocktype long stdio.h sys/types.h $inc
 eval $typedef
 dflt="$clocktype"
 echo " "
 rp="What type is returned by times() on this system?"
 . ./myread
 clocktype="$ans"
else
 echo 'times() NOT found, hope that will do.' >&4
 d_times="$undef"
?X: The following is needed for typedef (won't like an empty variable)
 clocktype='int'
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_times.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: pager.U,v $
?RCS: Revision 3.0.1.2  1995/01/30  14:41:26  ram
?RCS: patch49: ensure dflt gets initialized in case no pagers are found (WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:27:45  ram
?RCS: patch36: replaced Myread by Getfile in the dependency line
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:30  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:pager: pg more less Getfile Oldconfig
?MAKE: -pick add $@ %<
?S:pager:
?S: This variable contains the name of the preferred pager
 on the system.
?S: Usual values are (the full pathnames of) more, less, pg, or cat.
?S:.
: locate the preferred pager for this system
fn=f/
case "$pager" in
")
 dflt="
 case "$pg" in
 /*) dflt=$pg;;
 [a-zA-Z]:/*) dflt=$pg;;
 esac
 case "$more" in
 /*) dflt=$more;;
 [a-zA-Z]:/*) dflt=$more;;
 esac
 case "$less" in
 /*) dflt=$less;;
 [a-zA-Z]:/*) dflt=$less;;
 esac
 case "$dflt" in
 ") dflt=/usr/ucb/more;;
 esac
 ;;
*) dflt="$pager"
 ;;
esac
?X: Instruct ./getfile to trust the default pager value,
?X: even if it does not begin with a slash.  For example, on os2,
?X: pager might be cmd /c more.  Also, it might include some options,
?X: such as '/usr/bin/less -R'.  ./getfile would report that
?X: "/usr/bin/less -R" doesn't exist.
?X: See comments in Getfile.U.
```

```
fn="f/($dflt)"
echo " "
rp='What pager is used on your system?'
. ./getfile
pager="$ans"
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/pager.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: End.U,v 3.0 1993/08/18 12:04:51 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: End.U,v $
?RCS: Revision 3.0  1993/08/18  12:04:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit serves as the goal which forces make to choose all the units that
?X: ask questions.  The $W on the ?MAKE: line is the list of all symbols wanted.
?X: To force any unit to be included, copy this unit to your private U directory
?X: and add the name of the unit desired to the ?MAKE: dependency line.
?X:
?MAKE:End perllibs: $W cppstdin gzip zip
 libs usedl osname osvers
?MAKE: -pick add $@ %<
?S:perllibs:
?S: The list of libraries needed by Perl only (any libraries needed
?S: by extensions only will by dropped, if using dynamic loading).
?S:.
?INIT:perllibs="
?LINT:use $W
?LINT:use gzip zip
?LINT:change cppstdin
: Remove libraries needed only for extensions
: The appropriate ext/Foo/Makefile.PL will add them back in, if necessary.
: The exception is SunOS 4.x, which needs them.
case "${osname}X${osvers}" in
sunos*X4*)
   perllibs="$libs"
```

```
  ;;
*) case "$usedl" in
  $define|true|[yY]*)
    set X `echo " $libs " | sed -e 's@ -lndbm @ @' -e 's@ -lgdbm @ @' -e 's@ -lgdbm_compat @ @' -e 's@ -ldbm @
@' -e 's@ -ldb @ @'`
    shift
    perllibs="$*"
    ;;
  *) perllibs="$libs"
    ;;
  esac
  ;;
esac

?X: If the user has the cppstdin wrapper, perl.c will try to call
?X: CPPSTDIN, but that will point to a location in the build
?X: directory, not the installed version!.  Here, we'll just strip the
?X: name down to 'cppstdin',
 and rely on the fact that perl.c will
?X: then call SCRIPTDIR/cppstdin, but local things like 'make depend'
?X: will continue to work.
: Remove build directory name from cppstdin so it can be used from
: either the present location or the final installed location.
echo " "
: Get out of the UU directory to get correct path name.
cd ..
case "$cppstdin" in
`pwd`/cppstdin)
 echo "Stripping down cppstdin path name"
 cppstdin=cppstdin
 ;;
esac
cd UU

: end of configuration questions
echo " "
echo "End of configuration questions."
echo " "
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/End.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_ustat.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_ustat: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_ustat:
?S: This variable conditionally defines the I_USTAT symbol, and indicates
?S: whether a C program should include <ustat.h>.
?S:.
?C:I_USTAT:
?C: This symbol, if defined, indicates that <ustat.h> exists and
?C: should be included.
?C:.
?H:#$i_ustat I_USTAT  /**/
?H:.
?LINT:set i_ustat
: see if this is a ustat.h system
set ustat.h i_ustat
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_ustat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X: This unit generates a $hasstruct string that is used internally
?X: by Configure to check if this system has a field for a
?X: particular struct (of if this system has a particular struct!)
?X:
?X: To use it, say something like:
?X:  set d_statblocks stat i_sysstat sys/stat.h
?X:  eval $hasstruct
?X: Or, for more complicated sets of headers, do something like
?X: hdrs="$define sys/foo.h
?X:  $i_sysbar sys/bar.h
?X:  $i_syszot sys/zot.h
?X:  $i_zappa zappa.h"
?X: set d_statblocks stat $hdrs
?X: eval $hasstruct
?X:
?MAKE:Hasstruct: Setvar rm_try test Compile
```

```
?MAKE: -pick add $@ %<
?T:varname struct
?V:hasstruct
: Define hasstruct macro for Configure internal use
hasstruct='varname=$1; struct=$2; shift;
 shift;
while $test $# -ge 2; do
 case "$1" in
 $define) echo "#include <$2>";;
 esac ;
   shift 2;
done > try.c;
echo "int main () { struct $struct foo; }" >> try.c;
set try;
if eval $compile; then
 val="$define";
else
 val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try'
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/Hasstruct.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strtol.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strtol.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strtol: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtol:
?S: This variable conditionally defines the HAS_STRTOL symbol, which
?S: indicates to the C program that the strtol() routine is available
?S: to provide better numeric string conversion than atoi() and friends.
```

```
?S:.
?C:HAS_STRTOL (STRTOL):
?C: This symbol, if defined, indicates that
 the strtol routine is available
?C: to provide better numeric string conversion than atoi() and friends.
?C:.
?H:#$d_strtol HAS_STRTOL /**/
?H:.
?LINT:set d_strtol
: see if strtol exists
set strtol d_strtol
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strtol.U
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```
?RCS: $Id$
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: alignbytes.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:02:28  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:25:20  ram
?RCS: patch23: avoid ALIGNBYTES, since it conflicts on NetBSD
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:23  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:alignbytes: Assert Myread Trylink cat i_inttypes i_limits i_math
?MAKE: -pick add $@ %<
?S:alignbytes:
?S: This variable holds the number of bytes required
 to align an
?S: arbitrary standard type. Usual values are 2, 4 and 8.
?S:.
?X: This used to be called ALIGNBYTES, but that conflicts with
?X: <machines/param.h> in NetBSD.
?C:MEM_ALIGNBYTES (ALIGNBYTES):
```

```
?C: This symbol contains the number of bytes required to align a
?C: double. Usual values are 2, 4 and 8.
?C:.
?H:#define MEM_ALIGNBYTES $alignbytes /**/
?H:.
?T:alignment result
: check for alignment requirements
echo " "
case "$alignbytes" in
")
 echo "Checking alignment constraints..." >&4

 for alignment in 8 4 2 1 16 32 error
 do
  $cat >try.c <<EOCP
#$i_inttypes I_INTTYPES
#ifdef I_INTTYPES
#include <inttypes.h>
#endif
#$i_limits I_LIMITS
#ifdef I_LIMITS
#include <limits.h>
#endif
#$i_math I_MATH
#ifdef I_MATH
#include <math.h>
#endif

union u {
 void *void_ptr;
 void (*func_ptr)(void);
 char c;
 short s;
 int i;
 long l;
 float f;
 double d;
#ifdef LLONG_MAX
 long long ll;
#else
#warning "LLONG_MAX undefined"
#endif
#if defined(HUGE_VALL)
 long double ld;
#else
#warning
 "HUGE_VALL undefined"
#endif
```

```
#ifdef UINT32_MAX
 uint32_t u32;
#else
#warning "UINT32_MAX undefined"
#endif
#ifdef UINT16_MAX
 uint16_t u16;
#else
#warning "UINT32_MAX undefined"
#endif
#ifdef UINT64_MAX
 uint64_t u64;
#else
#warning "UINT64_MAX undefined"
#endif
#ifdef UINTMAX_MAX
 uintmax_t m;
#else
#warning "UINTMAX_MAX undefined"
#endif
#ifdef UINTPTR_MAX
 uintptr_t up;
#else
#warning "UINTPTR_MAX undefined"
#endif
};

struct s {
 char a;
 union u b;
};

#include "static_assert.h"

int
main(void)
{
 STATIC_ASSERT($alignment == ((sizeof (struct s) - (sizeof (union u)))));
 return 0;
}
EOCP

  result="
  set result
  eval $trylink
  case "$result" in
  "$define") break;;
  esac
```

```
 done

 case "$alignment" in
 error) dflt='8'
  echo "(I can't seem to compile the test program...)" >&4
  ;;
 *) dflt=$alignment
  ;;
 esac
;;
*) dflt="$alignbytes"
 ;;
esac
rp="What is the maximum alignment in bytes required for a standard type?"
. ./myread
alignbytes="$ans"
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/alignbytes.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_htonl.U,v $
?RCS: Revision 3.0.1.2  1994/08/29  16:09:25  ram
?RCS: patch32: now properly handles htonl() and friends when macros (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:45:00  ram
?RCS: patch23: now also check for htonl() macro (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:22  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_htonl: Inlibc Setvar i_niin i_sysin cat rm contains \
 cppstdin cppflags cppminus
?MAKE: -pick add $@ %<
?S:d_htonl:
?S: This variable conditionally
```

```
 defines HAS_HTONL if htonl() and its
?S: friends are available to do network order byte swapping.
?S:.
?C:HAS_HTONL (HTONL):
?C: This symbol, if defined, indicates that the htonl() routine (and
?C: friends htons() ntohl() ntohs()) are available to do network
?C: order byte swapping.
?C:.
?C:HAS_HTONS (HTONS):
?C: This symbol, if defined, indicates that the htons() routine (and
?C: friends htonl() ntohl() ntohs()) are available to do network
?C: order byte swapping.
?C:.
?C:HAS_NTOHL (NTOHL):
?C: This symbol, if defined, indicates that the ntohl() routine (and
?C: friends htonl() htons() ntohs()) are available to do network
?C: order byte swapping.
?C:.
?C:HAS_NTOHS (NTOHS):
?C: This symbol, if defined, indicates that the ntohs() routine (and
?C: friends htonl() htons() ntohl()) are available to do network
?C: order byte swapping.
?C:.
?H:#$d_htonl HAS_HTONL  /**/
?H:#$d_htonl HAS_HTONS  /**/
?H:#$d_htonl HAS_NTOHL  /**/
?H:#$d_htonl HAS_NTOHS  /**/
?H:.
?F:!htonl.c
?LINT:set d_htonl
:
 see if htonl --and friends-- exists
val="
set htonl val
eval $inlibc

: Maybe they are macros.
case "$val" in
$undef)
 $cat >htonl.c <<EOM
#include <stdio.h>
#include <sys/types.h>
#$i_niin I_NETINET_IN
#$i_sysin I_SYS_IN
#ifdef I_NETINET_IN
#include <netinet/in.h>
#endif
#ifdef I_SYS_IN
```

```
#include <sys/in.h>
#endif
#ifdef htonl
printf("Defined as a macro.");
#endif
EOM
 $cppstdin $cppflags $cppminus < htonl.c >htonl.E 2>/dev/null
 if $contains 'Defined as a macro' htonl.E >/dev/null 2>&1; then
  val="$define"
  echo "But it seems to be defined as a macro." >&4
 fi
 $rm -f htonl.?
 ;;
esac
set d_htonl
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_htonl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sig_name.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sig_name.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  16:21:25  ram
?RCS: patch61: brand new algorithm for sig_name and (new!) sig_num
?RCS:
?RCS: Revision 3.0.1.4  1995/07/25  14:14:54  ram
?RCS: patch56: added <asm/signal.h> lookup for Linux
?RCS:
?RCS: Revision 3.0.1.3  1995/05/12  12:24:11  ram
?RCS: patch54: now looks for <linux/signal.h> too (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20  07:06:57  ram
?RCS: patch30: final echo was missing to close
 awk-printed string
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:17:55  ram
?RCS: patch23: signal list now formatted to avoid scroll-ups (ADO)
```

```
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:sig_name sig_name_init sig_num sig_num_init sig_count sig_size: \
 awk Signal Oldconfig rm
?MAKE: -pick add $@ %<
?S:sig_name:
?S: This variable holds the signal names, space separated. The leading
?S: SIG in signal name is removed.  A ZERO is prepended to the list.
?S: This is currently not used, sig_name_init is used instead.
?S:.
?S:sig_name_init:
?S: This variable holds the signal names, enclosed in double quotes and
?S: separated by commas, suitable for use in the SIG_NAME definition
?S: below.  A "ZERO" is prepended to the list, and the list is
?S: terminated with a plain 0.  The leading SIG in signal names
?S: is removed. See sig_num.
?S:.
?S:sig_num:
?S: This variable holds the signal numbers, space separated. A ZERO is
?S: prepended
 to the list (corresponding to the fake SIGZERO).
?S: Those numbers correspond to  the value of the signal listed
?S: in the same place within the sig_name list.
?S: This is currently not used, sig_num_init is used instead.
?S:.
?S:sig_num_init:
?S: This variable holds the signal numbers, enclosed in double quotes and
?S: separated by commas, suitable for use in the SIG_NUM definition
?S: below.  A "ZERO" is prepended to the list, and the list is
?S: terminated with a plain 0.
?S:.
?S:sig_count (sig_name.U):
?S: This variable holds a number larger than the largest valid
?S: signal number.  This is usually the same as the NSIG macro.
?S:.
?S:sig_size:
?S: This variable contains the number of elements of the sig_name
?S: and sig_num arrays.
?S:.
?C:SIG_NAME:
?C: This symbol contains a list of signal names in order of
?C: signal number. This is intended
?C: to be used as a static array initialization, like this:
?C:  char *sig_name[] = { SIG_NAME };
?C: The signals in the list are separated
```

```
 with commas, and each signal
?C: is surrounded by double quotes. There is no leading SIG in the signal
?C: name, i.e. SIGQUIT is known as "QUIT".
?C: Gaps in the signal numbers (up to NSIG) are filled in with NUMnn,
?C: etc., where nn is the actual signal number (e.g. NUM37).
?C: The signal number for sig_name[i] is stored in sig_num[i].
?C: The last element is 0 to terminate the list with a NULL.  This
?C: corresponds to the 0 at the end of the sig_name_init list.
?C: Note that this variable is initialized from the sig_name_init,
?C: not from sig_name (which is unused).
?C:.
?C:SIG_NUM:
?C: This symbol contains a list of signal numbers, in the same order as the
?C: SIG_NAME list. It is suitable for static array initialization, as in:
?C:  int sig_num[] = { SIG_NUM };
?C: The signals in the list are separated with commas, and the indices
?C: within that list and the SIG_NAME list match, so it's easy to compute
?C: the signal name from a number or vice versa at the price of a small
?C: dynamic
 linear lookup.
?C: Duplicates are allowed, but are moved to the end of the list.
?C: The signal number corresponding to sig_name[i] is sig_number[i].
?C: if (i < NSIG) then sig_number[i] == i.
?C: The last element is 0, corresponding to the 0 at the end of
?C: the sig_name_init list.
?C: Note that this variable is initialized from the sig_num_init,
?C: not from sig_num (which is unused).
?C:.
?C:SIG_COUNT:
?C: This variable contains a number larger than the largest
?C: signal number.  This is usually the same as the NSIG macro.
?C:.
?C:SIG_SIZE:
?C: This variable contains the number of elements of the SIG_NAME
?C: and SIG_NUM arrays, excluding the final NULL entry.
?C:.
?H:#define SIG_NAME $sig_name_init  /**/
?H:#define SIG_NUM  $sig_num_init  /**/
?H:#define SIG_COUNT $sig_count   /**/
?H:#define SIG_SIZE $sig_size   /**/
?H:.
?T:i doinit
?F:!= !signal_cmd
?X: signal.cmd creates a file  signal.lst which has two columns:
?X: NAME  number, e.g.
?X:  HUP 1
?X: The list is
```

```
 sorted on signal number, with duplicates moved to
?X: the end..
: generate list of signal names
case "$sig_num_init" in
")
echo " "
case "$sig_name_init" in
") doinit=yes ;;
*)  case "$sig_num_init" in
   "|*,*) doinit=yes ;;
   esac ;;
esac
case "$doinit" in
yes)
 echo "Generating a list of signal names and numbers..." >&4
 . ./signal_cmd
 sig_count=`$awk '/^NSIG/ { printf "%d", $2 }' signal.lst`
 sig_name=`$awk 'BEGIN { printf "ZERO " }
   !/^NSIG/ { printf "%s ", $1 }' signal.lst`
 sig_num=`$awk  'BEGIN { printf "0 " }
   !/^NSIG/ { printf "%d ", $2 }' signal.lst`
 sig_name_init=`$awk 'BEGIN { printf "\"ZERO\", " }
        !/^NSIG/ { printf "\"%s\", ", $1 }
        END { printf "0\n" }' signal.lst`
 sig_num_init=`$awk  'BEGIN { printf "0, " }
        !/^NSIG/ { printf "%d, ", $2}
        END { printf "0\n"}' signal.lst`
 ;;
esac
echo "The following $sig_count signals are available:"
echo " "
echo $sig_name | $awk \
'BEGIN { linelen = 0 }
{
 for (i = 1; i <= NF; i++) {
  name
 = "SIG" $i " "
  linelen = linelen + length(name)
  if (linelen > 70) {
   printf "\n"
   linelen = length(name)
  }
  printf "%s", name
 }
 printf "\n"
}'
sig_size=`echo $sig_name | awk '{print NF}'`
$rm -f signal signal.c signal.awk signal.lst signal_cmd
```

```
;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/sig_name.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: charorder.U,v 3.0.1.1 1994/10/29 16:07:08 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: charorder.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:07:08  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:33  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:chorder_int chorder_short chorder_long: Myread cat Compile rm
?MAKE: -pick add $@ %<
?S:chorder_short (d_cos d_bos):
?S: Holds the value describing the byte ordering of characters in a short.
?S: On a Big-Endian machine, that
 would be "c0c1".
?S:.
?S:chorder_int (charoder):
?S: Holds the value describing the byte ordering of characters in an int.
?S: For instance, on a Big-Endian machine, this would be: "c0c1c2c3".
?S:.
?S:chorder_long (d_col d_bol):
?S: Holds the value describing the byte ordering of characters in a long.
?S: On a 64 bits Big-Endian machine, that would yield: "c0c1c2c3c4c5c6c7".
?S:.
?C:CHAR_ORDER_SHORT:
?C: Holds the byte ordering of characters in a short. It's a string
?C: value like "c0c1" on a Big-Endian machine.
?C:.
?C:CHAR_ORDER_INT:
?C: Holds the byte ordering of characters in an int. It's a string
?C: value like "c0c1c2c3" on a Big-Endian machine.
?C:.
```

```
?C:CHAR_ORDER_LONG:
?C: Holds the byte ordering of characters in a long. It's a string
?C: value like "c0c1c2c3c4c5c6c7" on a 64 bits Big-Endian machine.
?C:.
?H:#define CHAR_ORDER_SHORT "$chorder_short" /* byte order in a short */
?H:#define CHAR_ORDER_INT "$chorder_int" /* byte order in an int */
?H:#define CHAR_ORDER_LONG "$chorder_long"
 /* byte order in a long */
?H:.
?F:!byteorder
: check for character ordering
echo " "
echo "Checking out byte order..." >&4
$cat >byteorder.c <<'EOCP'
#include <stdio.h>

int main(argc, argv)
 int argc;
 char *argv[]; {
 int i;
 int max;
 union {
  short u_s;
  int u_i;
  long u_l;
  char u_c[sizeof(long)];
 } u;
 switch (argv[1][0]) {
 case 'l':
  u.u_l = 0L;
  /* HMS: ASSERT: sizeof(long) < 10. */
  for(i = 0; i < sizeof(long); ++i) {
   u.u_l *= 0x100L;
   u.u_l += (0xc0 + i);
  }
  max = sizeof(long);
  break;
 case 's':
  u.u_s = 0;
  /* HMS: ASSERT: sizeof(short) < 10. */
  for(i = 0; i < sizeof(short); ++i) {
   u.u_s *= 0x100L;
   u.u_s += (0xc0 + i);
  }
  max = sizeof(short);
  break;
 case 'i':
  u.u_i = 0;
```

```
  /* RAM: ASSERT: sizeof(int) < 10. */
  for(i = 0; i < sizeof(int); ++i) {
   u.u_l *= 0x100L;
   u.u_l += (0xc0 + i);
  }
  max = sizeof(int);
  break;
 default:
  max = 0;
  break;
 }
 for(i = 0; i < max; i++) {
  printf("%x", u.u_c[i] & 0x00FF);
 }
 printf("\n");
 exit(0);
}
EOCP
set
 byteorder
if eval $compile_ok ; then
 : null statement
@if chorder_short
   chorder_short=`./byteorder s`
@end
@if chorder_int
   chorder_int=`./byteorder i`
@end
@if chorder_long
   chorder_long=`./byteorder l`
@end
else
 $cat <<EOM
(I can't seem to get my test program to work.  Guessing 32 bits big-endian.)
EOM
   chorder_short="c0c1"
   chorder_int="c0c1c2c3"
   chorder_long="c0c1c2c3"
fi
@if chorder_short
dflt=$chorder_short
rp='What is the order of characters in a short?'
. ./myread
chorder_short="$ans"
@end
@if chorder_int
dflt=$chorder_int
rp='What is the order of characters in an int?'
```

```
. ./myread
chorder_int="$ans"
@end
@if chorder_long
dflt=$chorder_long
rp='What is the order of characters in a long?'
. ./myread
chorder_long="$ans"
@end
$rm -f byteorder* core
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/charorder.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_socklen_t: Inhdr cat rm_try Setvar Compile d_socket sizetype
?MAKE: -pick add $@ %<
?S:d_socklen_t:
?S: This symbol will be defined if the C compiler supports socklen_t.
?S:.
?C:HAS_SOCKLEN_T:
?C: This symbol will defined if the C compiler supports socklen_t.
?C: Usually the <sys/socket.h> needs to be included.
?C:.
?H:#$d_socklen_t     HAS_SOCKLEN_T              /**/
?H:.
?LINT:set d_socklen_t
: check for socklen_t
echo " "
echo "Checking to see if you have socklen_t..." >&4
$cat >try.c <<EOCP
#include <sys/types.h>
#$d_socket
 HAS_SOCKET
#ifdef HAS_SOCKET
#include <sys/socket.h>
#endif
```

```
int main() { socklen_t x = 16; }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have socklen_t."
else
 val="$undef"
 echo "You do not have socklen_t."
 case "$sizetype" in
 size_t) echo "(You do have size_t, that might work. Some people are happy with just an int.)" ;;
 esac
fi
$rm_try
set d_socklen_t
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_socklen_t.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysioctl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysioctl.U,v $
?RCS: Revision 3.0.1.2  1994/05/06  15:04:57  ram
?RCS: patch23: added knowledge for <sys/filio.h> (WED)
?RCS: patch23: optimized amount of findhdr calls
?RCS:
?RCS: Revision 3.0.1.1  1993/11/10  17:36:09  ram
?RCS: patch14: now use a compiler check for TIOCNOTTY because of HP-UX 9.x
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:32  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_sysioctl i_bsdioctl i_sysfilio i_syssockio
 d_voidtty: test contains \
 cat i_termio i_termios i_sgtty Setvar Findhdr +cc rm Inhdr
?MAKE: -pick add $@ %<
?S:i_sysioctl:
```

```
?S: This variable conditionally defines the I_SYS_IOCTL symbol, which
?S: indicates to the C program that <sys/ioctl.h> exists and should
?S: be included.
?S:.
?S:i_sysfilio:
?S: This variable conditionally defines the I_SYS_FILIO symbol, which
?S: indicates to the C program that <sys/filio.h> exists and should
?S: be included in preference to <sys/ioctl.h>.
?S:.
?S:i_bsdioctl:
?S: This variable conditionally defines the I_SYS_BSDIOCTL symbol, which
?S: indicates to the C program that <sys/bsdioctl.h> exists and should
?S: be included.
?S:.
?S:i_syssockio:
?S: This variable conditionally defines I_SYS_SOCKIO to indicate to the
?S: C program that socket ioctl codes may be found in <sys/sockio.h>
?S: instead of <sys/ioctl.h>.
?S:.
?S:d_voidtty:
?S: This variable conditionally defines USE_IOCNOTTY to indicate that the
?S: ioctl() call with TIOCNOTTY should be used
 to void tty association.
?S: Otherwise (on USG probably), it is enough to close the standard file
?S: descriptors and do a setpgrp().
?S:.
?C:I_SYS_IOCTL (I_SYSIOCTL):
?C: This symbol, if defined, indicates that <sys/ioctl.h> exists and should
?C: be included. Otherwise, include <sgtty.h> or <termio.h>.
?C:.
?C:I_SYS_FILIO:
?C: This symbol, if defined, indicates that <sys/filio.h> exists and
?C: should be included instead of <sys/ioctl.h>.
?C:.
?C:I_SYS_BSDIOCTL (I_BSDIOCTL):
?C: This symbol, if defined, indicates that <sys/bsdioctl.h> exists and should
?C: be included. Otherwise, try <sys/ioctl.h>. This is primarly intended for
?C: definitions of sockets options, like SIOCATMARK.
?C:.
?C:I_SYS_SOCKIO (I_SYSSOCKIO):
?C: This symbol, if defined, indicates the <sys/sockio.h> should be included
?C: to get socket ioctl options, like SIOCATMARK.
?C:.
?C:USE_TIOCNOTTY (VOIDTTY):
?C: This symbol, if defined indicate to the C program that the ioctl()
?C: call with TIOCNOTTY should be used
 to void tty association.
?C: Otherwise (on USG probably), it is enough to close the standard file
```

```
?C: descriptors and do a setpgrp().
?C:.
?H:#$i_sysioctl I_SYS_IOCTL  /**/
?H:#$i_sysfilio I_SYS_FILIO  /**/
?H:#$i_bsdioctl I_SYS_BSDIOCTL  /**/
?H:#$i_syssockio I_SYS_SOCKIO /**/
?H:#$d_voidtty USE_TIOCNOTTY /**/
?H:.
?T:xxx
: see if ioctl defs are in sgtty, termio, sys/filio or sys/ioctl
?LINT:set i_sysfilio
set sys/filio.h i_sysfilio
eval $inhdr
echo " "
if $test `./findhdr sys/ioctl.h`; then
 val="$define"
 echo '<sys/ioctl.h> found.' >&4
else
 val="$undef"
 if $test $i_sysfilio = "$define"; then
     echo '<sys/ioctl.h> NOT found.' >&4
 else
  $test $i_sgtty = "$define" && xxx="sgtty.h"
  $test $i_termio = "$define" && xxx="termio.h"
  $test $i_termios = "$define" && xxx="termios.h"
echo "No <sys/ioctl.h> found, assuming ioctl args are defined in <$xxx>." >&4
 fi
fi
?LINT:set i_sysioctl
set i_sysioctl
eval $setvar

@if I_BSDIOCTL || i_bsdioctl
?X:
?X: The only machine I know where this
 inclusion was necessary is a
?X: BULL DPX 5000 (a French machine).
?X:
: see if socket ioctl defs are in sys/bsdioctl or sys/ioctl
echo " "
xxx=`./findhdr sys/bsdioctl.h`
if $test "$xxx"; then
 if $contains SIOCATMARK $xxx >/dev/null 2>&1; then
  val="$define"
  echo "You have socket ioctls defined in <sys/bsdioctl.h>." >&4
 else
  val="$undef"
  echo "No socket ioctls found in <sys/bsdioctl.h>." >&4
```

```
 fi
else
 val="$undef"
 echo "<sys/bsdioctl.h> not found, but that's ok." >&4
fi
?LINT:set i_bsdioctl
set i_bsdioctl
eval $setvar

@end
@if I_SYSSOCKIO || i_syssockio
: see if socket ioctl defs are in sys/sockio.h
echo " "
xxx=`./findhdr sys/sockio.h`
if $test "$xxx"; then
 if $contains SIOCATMARK $xxx >/dev/null 2>&1; then
  val="$define"
  echo "You have socket ioctls defined in <sys/sockio.h>." >&4
 else
  val="$undef"
  echo "No socket ioctls found in <sys/sockio.h>." >&4
 fi
else
 val="$undef"
@if I_BSDIOCTL
 case "$i_bsdioctl" in
 "$define") $cat <<EOM
<sys/sockio.h> not found, using
 ioctls from <sys/bsdioctl.h>.
EOM
 ;;
 *) $cat <<EOM
<sys/sockio.h> not found, assuming socket ioctls are in <sys/ioctl.h>.
EOM
 ;;
 esac
@else
 $cat <<EOM
<sys/sockio.h> not found, assuming socket ioctls are in <sys/ioctl.h>.
EOM
@end
fi
?LINT:set i_syssockio
set i_syssockio
eval $setvar

@end
@if VOIDTTY || d_voidtty
```

```
: check how to void tty association
echo " "
case "$i_sysioctl" in
"$define") xxx='sys/ioctl.h';;
?X: otherwise $xxx was set during the determination of i_sysioctl, above.
esac
?X:
?X: Can't use $contains here since HP-UX 9.x has TIOCNOTTY between a pair
?X: of #ifdef/#endif and is never actually defined. Oh well...
?X:
$cat > tcio.c <<EOM
#include <sys/types.h> /* Just in case */
#include <$xxx>

int main()
{
#ifdef TIOCNOTTY
 exit(0);
#else
 exit(1);
#endif
}
EOM
if ($cc -o tcio tcio.c && ./tcio) >/dev/null 2>&1; then
 val="$define"
 echo "TIOCNOTTY found in <$xxx>." >&4
 echo "Using ioctl() call on /dev/tty to void tty association." >&4
else
 val="$undef"
 echo "Closing
 standard file descriptors should void tty association." >&4
fi
?LINT:set d_voidtty
set d_voidtty
eval $setvar
$rm -f tcio tcio.? core

@end
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sysioctl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
```

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_getespwnam: Inlibc
?MAKE: -pick add $@ %<
?S:d_getespwnam:
?S: This variable conditionally defines HAS_GETESPWNAM if getespwnam() is
?S: available to retrieve enhanced (shadow) password entries by name.
?S:.
?C:HAS_GETESPWNAM:
?C: This symbol, if defined, indicates that the getespwnam system call is
?C: available to retrieve enhanced (shadow) password entries by name.
?C:.
?H:#$d_getespwnam HAS_GETESPWNAM  /**/
?H:.
?LINT:set d_getespwnam
: see if getespwnam exists
set getespwnam d_getespwnam
eval $inlibc
```

Found in
path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_getespwnam.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_regex.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Sidney C. Smith <scsmith@cbda9.apgea.army.mil>
?RCS:
?RCS: $Log: i_regex.U,v $
?RCS: Revision 3.0.1.1  1995/01/30  14:35:45  ram
?RCS: patch49: created
?RCS:
?RCS:
?MAKE:i_regex: Inhdr
?MAKE: -pick add $@ %<
```

```
?S:i_regex:
?S: This variable conditionally defines the I_REGEX symbol, which
?S: indicates to the C program that <regex.h> exists and should
?S: be included.
?S:.
?C:I_REGEX:
?C: This symbol, if defined, indicates that <regex.h> exists
 and should
?C: be included.
?C:.
?H:#$i_regex I_REGEX /**/
?H:.
?LINT:set i_regex
: see if regex is available
set regex.h i_regex
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_regex.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_truncl: Inlibc
?MAKE: -pick add $@ %<
?S:d_truncl:
?S: This variable conditionally defines the HAS_TRUNCL symbol, which
?S: indicates to the C program that the truncl() routine is available
?S: to round long doubles towards zero. If copysignl is also present,
?S: we can emulate modfl.
?S:.
?C:HAS_TRUNCL :
?C: This symbol, if defined, indicates that the truncl routine is
?C: available. If copysignl is also present we can emulate modfl.
?C:.
?H:#$d_truncl HAS_TRUNCL  /**/
?H:.
?LINT:set d_truncl
: see if truncl exists
set truncl d_truncl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_truncl.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: inc_version_list.U,v $
?RCS:
?RCS: Copyright (c) 2000 Andy Dougherty
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: inc_version_list.U,v $
?RCS:
?MAKE:inc_version_list inc_version_list_init d_inc_version_list: cat sed \
 Getfile perl5 version api_versionstring rm Myread archname \
 prefix sitelib_stem exe_ext
?MAKE: -pick add $@ %<
?Y:TOP
?S:inc_version_list:
?S: This variable specifies the list of subdirectories in over
?S: which perl.c:incpush() and lib/lib.pm will automatically
?S: search when adding directories to @INC.  The elements in
?S: the list are separated by spaces.  This is only useful
?S: if
 you have a perl library directory tree structured like the
?S: default one.  See INSTALL for how this works.  The versioned
?S: site_perl directory was introduced in 5.005, so that is the
?S: lowest possible value.
?S:
?S: This list includes architecture-dependent directories back to
?S: version $api_versionstring (e.g. 5.5.640) and
?S: architecture-independent directories all the way back to
?S: 5.005.
?S:.
?S:inc_version_list_init:
?S: This variable holds the same list as inc_version_list, but
?S: each item is enclosed in double quotes and separated by commas,
?S: suitable for use in the PERL_INC_VERSION_LIST initialization.
?S:.
?S:d_inc_version_list:
?S: This variable conditionally defines PERL_INC_VERSION_LIST.
?S: It is set to undef when PERL_INC_VERSION_LIST is empty.
?S:.
?C:PERL_INC_VERSION_LIST:
?C: This variable specifies the list of subdirectories in over
?C: which perl.c:incpush() and lib/lib.pm will automatically
?C: search when adding directories to @INC, in a format suitable
```

```
?C: for
 a C initialization string.  See the inc_version_list entry
?C: in Porting/Glossary for more details.
?C:.
?H:#$d_inc_version_list PERL_INC_VERSION_LIST $inc_version_list_init  /**/
?H:.
?T:stem
: Determine list of previous versions to include in @INC
$cat > getverlist <<EOPL
#!$perl5
use strict;
use warnings;
use File::Basename;
my \$api_versionstring = "$api_versionstring";
my \$version = "$version";
my \$stem = "$sitelib_stem";
my \$archname = "$archname";
EOPL
 $cat >> getverlist <<'EOPL'
# The list found is stored twice for each entry: the original name, and
# the binary broken down version into pack "s>s>s>", so sorting is easy
# and unambiguous.  This will work for all versions that have a maximum
# of three digit per group separate by '.'s or '_'s. Names are extended
# with ".0.0" to ensure at least three elements for the pack.
#                                -- H.Merijn Brand (m)'06 23-10-2006

my @inc_version_list;
my @candidates;
# XXX Redo to do opendir/readdir?
if
 (-d $stem) {
   chdir($stem);
   ;@candidates = map {
 [ $_, pack "s>s>s>", split m/[._]/, "$_.0.0" ] } glob("5.*");
   ;@candidates = sort { $a->[1] cmp $b->[1]} @candidates;
}
else {
   ;@candidates = ();
}

my ($pversion, $aversion, $vsn5005) = map {
   pack "s>s>s>", split m/[._]/, "$_.0.0" } $version, $api_versionstring, "5.005";
foreach my $d (@candidates) {
   if ($d->[1] lt $pversion) {
 if ($d->[1] ge $aversion) {
     unshift(@inc_version_list, grep { -d } $d->[0]."/$archname", $d->[0]);
 }
 elsif ($d->[1] ge $vsn5005) {
```

```
    unshift(@inc_version_list, grep { -d } $d->[0]);
 }
   }
   else {
 # Skip newer version.  I.e. don't look in
 # 5.7.0 if we're installing 5.6.1.
   }
}

if (@inc_version_list) {
   print join(' ', @inc_version_list);
}
else {
   # Blank space to preserve value for next Configure run.
   print " ";
}
EOPL
chmod +x getverlist
case "$inc_version_list" in
") if test -x "$perl5$exe_ext"; then
  dflt=`$perl5 getverlist`
 else
  dflt='none'
 fi
 ;;
$undef)
 dflt='none' ;;
?X:     Configure -Dinc_version_list='5.6.0/$archname 5.6.0' ...
*)  eval dflt=\"$inc_version_list\" ;;
esac
case "$dflt" in
"|' ') dflt=none ;;
esac
case "$dflt" in
5.005) dflt=none ;;
esac
$cat <<EOM

In order to ease the process of upgrading, this version of perl
can be configured to use modules built and installed with earlier
versions of perl that were installed under $prefix.  Specify here
the list of earlier versions that this version of perl should check.
If Configure detected no earlier versions of perl installed under
$prefix, then the list will be empty.  Answer 'none' to tell perl
to not search earlier versions.

The default should almost always be sensible, so if you're not sure,
just accept the default.
```

```
EOM

rp='List of earlier versions to include in @INC?'
. ./myread
case "$ans" in
[Nn]one|''|' '|$undef) inc_version_list=' ' ;;
*) inc_version_list="$ans" ;;
esac
case "$inc_version_list" in
''|' ')
 inc_version_list_init='0'
 d_inc_version_list="$undef"
 ;;
*) inc_version_list_init=`echo
 $inc_version_list |
  $sed -e 's/^/"/' -e 's/ /","/g' -e 's/$/",0/'`
 d_inc_version_list="$define"
 ;;
esac
$rm -f getverlist
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/inc_version_list.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysutsname.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysutsname: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysutsname:
?S: This variable conditionally defines the I_SYSUTSNAME symbol,
?S: and indicates whether a C program should include <sys/utsname.h>.
?S:.
?C:I_SYSUTSNAME:
?C: This symbol, if defined, indicates that <sys/utsname.h> exists and
?C: should be included.
?C:.
?H:#$i_sysutsname I_SYSUTSNAME  /**/
?H:.
?LINT:set i_sysutsname
: see if this is a sys/utsname.h system
set sys/utsname.h i_sysutsname
```

```
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_sysutsname.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: mboxchar.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: mboxchar.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:13:12  ram
?RCS: patch56: ensure ctrl-A characters are visible in prompt (WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:11:22  ram
?RCS: patch23: added support for MMDF mailboxes (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:mboxchar: cat package shsharp Myread Oldconfig
?MAKE: -pick add $@ %<
?S:mboxchar:
?S: This variable
 contains the eventual value of the MBOXCHAR symbol,
?S: which is how a C program can identify a file as a mailbox.
?S:.
?C:MBOXCHAR:
?C: This symbol contains a character which will match the beginning
?C: of a mailbox file.
?C:.
?H:#define MBOXCHAR '$mboxchar'  /**/
?H:.
?T:CTRLA
?INIT:CTRLA=`echo a | tr a '\001'`
: determine how to determine when a file is a mailbox
case "$mboxchar" in
") dflt=F;;
?X: The following ^A is two-chars to ensure it will print out -- WED
"$CTRLA") dflt='^A';;
*)  dflt="$mboxchar";;
```

```
esac
$cat <<EOM

In saving articles, $package wants to differentiate between saving to
mailbox format files and normal files.  It does this by examining the
first character of the file in question.  On most systems the first line
starts with "From ...", so the first character is an F.  Other systems
use magic cookies like control codes between articles, so one of those
would be first.  For example, MMDF messages are separated with lines of
four control-A's (you may specify one
 as ^A, i.e. caret A).

EOM
rp="What's the first character of a mailbox file?"
. ./myread
mboxchar="$ans"
case "$mboxchar" in
'F') ;;
"$CTRLA") ;;
'^A'|'^a') mboxchar="$CTRLA";;
*)  cat <<'EOM'

You will need to edit the shell script mbox.saver to properly append an
article to a mailbox.  The arguments to the script are documented in
EOM
 case "$shsharp" in
 false) echo "comments in mbox.saver.std.";;
 true) echo "comments in the shell script itself.";;
 esac
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/mboxchar.U
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```
?RCS: $Id$
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: nblock_io.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:17:14  ram
```

```
?RCS: patch61: simplify here document for shells that can't handle them well
?RCS: patch61: force use of "startsh" at the head of the generated script
?RCS: patch61: added new files to the ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  14:13:22  ram
?RCS: patch56: created
?RCS:
?X:
?X: Simplify here document for shells that can't handle them well.
?X: (Problem reported on FreeBSD; it's unclear if this helps.)  --AD
?X:
?MAKE:o_nonblock
 eagain rd_nodata d_eofnblk: cat rm_try +cc +ccflags +ldflags \
 d_open3 h_sysfile h_fcntl signal_t hint Oldconfig Setvar startsh Warn
?MAKE: -pick add $@ %<
?S:o_nonblock:
?S: This variable bears the symbol value to be used during open() or fcntl()
?S: to turn on non-blocking I/O for a file descriptor. If you wish to switch
?S: between blocking and non-blocking, you may try ioctl(FIOSNBIO) instead,
?S: but that is only supported by some devices.
?S:.
?S:eagain:
?S: This variable bears the symbolic errno code set by read() when no
?S: data is present on the file and non-blocking I/O was enabled (otherwise,
?S: read() blocks naturally).
?S:.
?S:rd_nodata:
?S: This variable holds the return code from read() when no data is
?S: present. It should be -1, but some systems return 0 when O_NDELAY is
?S: used, which is a shame because you cannot make the difference between
?S: no data and an EOF.. Sigh!
?S:.
?S:d_eofnblk:
?S: This variable conditionally defines EOF_NONBLOCK
 if EOF can be seen
?S: when reading from a non-blocking I/O source.
?S:.
?C:VAL_O_NONBLOCK:
?C: This symbol is to be used during open() or fcntl(F_SETFL) to turn on
?C: non-blocking I/O for the file descriptor. Note that there is no way
?C: back, i.e. you cannot turn it blocking again this way. If you wish to
?C: alternatively switch between blocking and non-blocking, use the
?C: ioctl(FIOSNBIO) call instead, but that is not supported by all devices.
?C:.
?C:VAL_EAGAIN:
?C: This symbol holds the errno error code set by read() when no data was
?C: present on the non-blocking file descriptor.
?C:.
```

```
?C:RD_NODATA:
?C: This symbol holds the return code from read() when no data is present
?C: on the non-blocking file descriptor. Be careful! If EOF_NONBLOCK is
?C: not defined, then you can't distinguish between no data and EOF by
?C: issuing a read(). You'll have to find another way to tell for sure!
?C:.
?C:EOF_NONBLOCK:
?C: This symbol, if defined, indicates to the C program that a read() on
?C: a
 non-blocking file descriptor will return 0 on EOF, and not the value
?C: held in RD_NODATA (-1 usually, in that case!).
?C:.
?H:#define VAL_O_NONBLOCK $o_nonblock
?H:#define VAL_EAGAIN $eagain
?H:#define RD_NODATA $rd_nodata
?H:#$d_eofnblk EOF_NONBLOCK
?H:.
?F:!try !try.out !try.ret !try.err !mtry
?T:status
?LINT:use d_open3
: check for non-blocking I/O stuff
case "$h_sysfile" in
true) echo "#include <sys/file.h>" > head.c;;
*)
 case "$h_fcntl" in
 true) echo "#include <fcntl.h>" > head.c;;
 *) echo "#include <sys/fcntl.h>" > head.c;;
 esac
 ;;
esac
echo " "
echo "Figuring out the flag used by open() for non-blocking I/O..." >&4
case "$o_nonblock" in
")
 $cat head.c > try.c
 $cat >>try.c <<'EOCP'
int main() {
#ifdef O_NONBLOCK
 printf("O_NONBLOCK\n");
 exit(0);
#endif
#ifdef O_NDELAY
 printf("O_NDELAY\n");
 exit(0);
#endif
?X: Stevens "Advanced Programming in the UNIX Environment" page 364 mentions
?X: the FNDELAY symbol, used in 4.33BSD (source: Paul Marquess).
#ifdef FNDELAY
```

```
 printf("FNDELAY\n");
 exit(0);
#endif
 exit(0);
}
EOCP
 if
 $cc $ccflags $ldflags -o try try.c >/dev/null 2>&1; then
  o_nonblock=`./try`
  case "$o_nonblock" in
  ") echo "I can't figure it out, assuming O_NONBLOCK will do.";;
  *) echo "Seems like we can use $o_nonblock.";;
  esac
 else
  echo "(I can't compile the test program; pray O_NONBLOCK is right!)"
 fi
 ;;
*) echo "Using $hint value $o_nonblock.";;
esac
$rm_try

echo " "
echo "Let's see what value errno gets from read() on a $o_nonblock file..." >&4
case "$eagain" in
")
 $cat head.c > try.c
 $cat >>try.c <<EOCP
#include <errno.h>
#include <sys/types.h>
#include <signal.h>
#define MY_O_NONBLOCK $o_nonblock
extern int errno;
$signal_t blech(x) int x; { exit(3); }
EOCP
 $cat >> try.c <<'EOCP'
int main()
{
 int pd[2];
 int pu[2];
 char buf[1];
 char string[100];

 pipe(pd); /* Down: child -> parent */
 pipe(pu); /* Up: parent -> child */
 if (0 != fork()) {
  int ret;
  close(pd[1]); /* Parent reads from pd[0] */
  close(pu[0]); /*
```

```
 Parent writes (blocking) to pu[1] */
  if (-1 == fcntl(pd[0], F_SETFL, MY_O_NONBLOCK))
   exit(1);
  signal(SIGALRM, blech);
  alarm(5);
  if ((ret = read(pd[0], buf, 1)) > 0) /* Nothing to read! */
   exit(2);
  sprintf(string, "%d\n", ret);
  write(2, string, strlen(string));
  alarm(0);
#ifdef EAGAIN
  if (errno == EAGAIN) {
   printf("EAGAIN\n");
   goto ok;
  }
#endif
#ifdef EWOULDBLOCK
  if (errno == EWOULDBLOCK)
   printf("EWOULDBLOCK\n");
#endif
 ok:
  write(pu[1], buf, 1); /* Unblocks child, tell it to close our pipe */
  sleep(2);    /* Give it time to close our pipe */
  alarm(5);
  ret = read(pd[0], buf, 1); /* Should read EOF */
  alarm(0);
  sprintf(string, "%d\n", ret);
  write(3, string, strlen(string));
  exit(0);
 }

 close(pd[0]);   /* We write to pd[1] */
 close(pu[1]);   /* We read from pu[0] */
 read(pu[0], buf, 1); /* Wait for parent to signal us we may continue */
 close(pd[1]);   /* Pipe pd is now fully closed! */
 exit(0);    /* Bye bye, thank you for playing!
 */
}
EOCP
 if $cc $ccflags $ldflags -o try try.c >/dev/null 2>&1; then
?X: Use script to avoid the possible 'alarm call' message
  echo "$startsh" >mtry
  echo "./try >try.out 2>try.ret 3>try.err || exit 4" >>mtry
  chmod +x mtry
  ./mtry >/dev/null 2>&1
  case $? in
  0) eagain=`$cat try.out`;;
  1) echo "Could not perform non-blocking setting!";;
```

```
 2) echo "I did a successful read() for something that was not there!";;
 3) echo "Hmm... non-blocking I/O does not seem to be working!";;
 *) echo "Something terribly wrong happened during testing.";;
 esac
 rd_nodata=`$cat try.ret`
 echo "A read() system call with no data present returns $rd_nodata."
 case "$rd_nodata" in
 0|-1) ;;
 *)
  echo "(That's peculiar, fixing that to be -1.)"
  rd_nodata=-1
  ;;
 esac
 case "$eagain" in
 ")
  echo "Forcing errno EAGAIN on read() with no data available."
  eagain=EAGAIN
  ;;
 *)
  echo "Your read() sets errno to $eagain when no data is available."
  ;;
 esac
 status=`$cat
try.err`
 case "$status" in
 0) echo "And it correctly returns 0 to signal EOF.";;
 -1) echo "But it also returns -1 to signal EOF, so be careful!";;
 *) echo "However, your read() returns '$status' on EOF??";;
 esac
 val="$define"
 if test "$status" = "$rd_nodata"; then
  ./warn "your read() can't distinguish between EOF and no data!"
  val="$undef"
 fi
else
 echo "I can't compile the test program--assuming errno EAGAIN will do."
 eagain=EAGAIN
fi
set d_eofnblk
eval $setvar
;;
*)
echo "Using $hint value $eagain."
echo "Your read() returns $rd_nodata when no data is present."
case "$d_eofnblk" in
"$define") echo "And you can see EOF because read() returns 0.";;
"$undef") echo "But you can't see EOF status from read() returned value.";;
*)
```

```
?X: Should not happen, but if it does, assume the worst!
  echo "(Assuming you can't see EOF status from read anyway.)"
  d_eofnblk=$undef
  ;;
 esac
 ;;
esac
$rm_try head.c mtry
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/nblock_io.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getopt.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getopt.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getopt: Inlibc
?MAKE: -pick add $@ %<
?S:d_getopt:
?S: This variable conditionally defines the HAS_GETOPT symbol, which
?S: indicates that the getopt() routine exists.  The getopt() routine
?S: parses command line options in a standard fashion.
?S:.
?C:HAS_GETOPT (GETOPT):
?C: This symbol, if defined, indicates that the getopt() routine
 exists.
?C:.
?H:#$d_getopt HAS_GETOPT  /**/
?H:.
?LINT:set d_getopt
: see if getopt exists
set getopt d_getopt
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/dist/U/d_getopt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysun.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit looks wether <inttypes.h> is available or not
?X:
?MAKE:i_inttypes: Inhdr
?MAKE: -pick add $@ %<
?S:i_inttypes:
?S: This variable conditionally defines I_INTTYPES, which indicates
?S: to the C program that it should include <inttypes.h> to get
?S: format conversions of integer types.
?S:.
?C:I_INTTYPES:
?C: This symbol, if defined, indicates to the C program that it should
?C: include
 <inttypes.h> to get format conversions of integer types.
?C:.
?H:#$i_inttypes I_INTTYPES  /**/
?H:.
?LINT:set i_inttypes
: see if this is a inttypes.h system
set inttypes.h i_inttypes
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_inttypes.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: modetype.U,v 3.0.1.1 1994/10/29 16:25:07 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
```

```
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: modetype.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:25:07  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:modetype: Myread Typedef
?MAKE: -pick add $@ %<
?S:modetype:
?S: This variable defines modetype to be something like mode_t,
?S: int, unsigned short, or whatever type is used to declare file
?S: modes for system calls.
?S:.
?C:Mode_t:
?C: This symbol holds the type used to declare
 file modes
?C: for systems calls.  It is usually mode_t, but may be
?C: int or unsigned short.  It may be necessary to include <sys/types.h>
?C: to get any typedef'ed information.
?C:.
?H:#define Mode_t $modetype  /* file mode parameter for system calls */
?H:.
?LINT:set modetype
: see what type is used for mode_t
rp="What is the type used for file modes for system calls (e.g. fchmod())?"
set mode_t modetype int stdio.h sys/types.h
eval $typedef_ask
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/modetype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_volatile.U,v 3.0.1.2 1995/07/25 14:08:49 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 3.0.
```

```
?RCS:
?RCS: $Log: d_volatile.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:08:49  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0.1.1  1993/09/09  11:49:51  ram
?RCS: patch9: volatile definition was swapped over with undef
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_volatile: cat +cc +ccflags rm_try Setvar
?MAKE: -pick add $@ %<
?S:d_volatile:
?S: This variable conditionally
 defines the HASVOLATILE symbol, which
?S: indicates to the C program that this C compiler knows about the
?S: volatile declaration.
?S:.
?C:HASVOLATILE ~ %<:
?C: This symbol, if defined, indicates that this C compiler knows about
?C: the volatile declaration.
?C:.
?H:?%<:#$d_volatile HASVOLATILE /**/
?H:?%<:#ifndef HASVOLATILE
?H:?%<:#define volatile
?H:?%<:#endif
?H:.
?LINT:set d_volatile
?LINT:known volatile
: check for volatile keyword
echo " "
echo 'Checking to see if your C compiler knows about "volatile"...' >&4
$cat >try.c <<'EOCP'
int main()
{
?X:
?X: The following seven lines added by Bill Campbell <billc@sierra.com>
?X: detect that MIPS compilers do not handle volatile in all situations.
?X:
 typedef struct _goo_struct goo_struct;
 goo_struct * volatile goo = ((goo_struct *)0);
 struct _goo_struct {
  long long_int;
  int reg_int;
  char char_var;
 };
 typedef unsigned short foo_t;
```

```
 char *volatile foo;
 volatile int bar;
 volatile foo_t blech;
 foo = foo;
}
EOCP
if $cc
 -c $ccflags try.c >/dev/null 2>&1 ; then
 val="$define"
 echo "Yup, it does."
else
 val="$undef"
 echo "Nope, it doesn't."
fi
set d_volatile
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_volatile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: package.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:27:21  ram
?RCS: patch36: beware of non-ascii character sets when translating case
?RCS:
?RCS: Revision 3.0.1.2  1993/11/10  17:37:02  ram
?RCS: patch14: skip definition of spackage if not otherwise used
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:11:10  ram
?RCS: patch10: added spackage, suitable for starting sentences
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:28  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:package spackage:
```

```
 Nothing
?MAKE: -pick wipe $@ %<
?S:package:
?S: This variable contains the name of the package being constructed.
?S: It is primarily intended for the use of later Configure units.
?S:.
?S:spackage:
?S: This variable contains the name of the package being constructed,
?S: with the first letter uppercased, i.e. suitable for starting
?S: sentences.
?S:.
?C:PACKAGE:
?C: This variable contains the name of the package being built.
?C:.
?H:#define PACKAGE "$package"
?H:.
?T:first last
: set package name
package='<PACKAGENAME>'
@if spackage
first=`echo $package | sed -e 's/^\(.\).*/\1/'`
last=`echo $package | sed -e 's/^.\(.*\)/\1/'`
?X:
?X: So early in the Configure script, we don't have ./tr set up and can't
?X: include Tr in our dependency or that would create a cycle. Therefore,
?X: we have to somehow duplicate the work done in Tr. That's life.
?X:
case "`echo AbyZ | tr '[:lower:]' '[:upper:]' 2>/dev/null`" in
ABYZ) spackage=`echo $first | tr '[:lower:]' '[:upper:]'`$last;;
*) spackage=`echo
 $first | tr '[a-z]' '[A-Z]'`$last;;
esac
@end
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/package.U
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```
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS:
?MAKE:i_stdint: Inhdr
?MAKE: -pick add $@ %<
?S:i_stdint:
?S: This variable conditionally defines the I_STDINT symbol, which
?S: indicates to the C program that <stdint.h> exists and should
?S: be included.
```

```
?S:.
?C:I_STDINT:
?C: This symbol, if defined, indicates that <stdint.h> exists and
?C: should be included.
?C:.
?H:#$i_stdint I_STDINT  /**/
?H:.
?LINT:set i_stdint
: see if stdint is available
set stdint.h i_stdint
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_stdint.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_waitpid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_waitpid.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_waitpid: Inlibc
?MAKE: -pick add $@ %<
?S:d_waitpid:
?S: This variable conditionally defines HAS_WAITPID if waitpid() is
?S: available to wait for child process.
?S:.
?C:HAS_WAITPID (WAITPID):
?C: This symbol, if defined, indicates that the waitpid routine is
?C: available to wait for child process.
?C:.
?H:#$d_waitpid HAS_WAITPID /**/
?H:.
?LINT:set
 d_waitpid
: see if waitpid exists
set waitpid d_waitpid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_waitpid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ctermid_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_ctermid_r ctermid_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads extern_C
?MAKE: -pick add $@ %<
?S:d_ctermid_r:
?S: This variable conditionally defines the HAS_CTERMID_R symbol,
?S: which indicates to the C program that the ctermid_r()
?S: routine is available.
?S:.
?S:ctermid_r_proto:
?S: This variable encodes the prototype of ctermid_r.
?S: It is zero if d_ctermid_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_ctermid_r
?S: is defined.
?S:.
?C:HAS_CTERMID_R:
?C: This symbol, if defined, indicates that the ctermid_r routine
?C: is available to ctermid re-entrantly.
?C:.
?C:CTERMID_R_PROTO:
?C: This
 symbol encodes the prototype of ctermid_r.
?C: It is zero if d_ctermid_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_ctermid_r
?C: is defined.
?C:.
?H:#$d_ctermid_r HAS_CTERMID_R /**/
?H:#define CTERMID_R_PROTO $ctermid_r_proto /**/
?H:.
?T:try hdrs d_ctermid_r_proto
: see if ctermid_r exists
set ctermid_r d_ctermid_r
eval $inlibc
case "$d_ctermid_r" in
"$define")
```

```
 hdrs="$i_systypes sys/types.h define stdio.h "
 case "$d_ctermid_r_proto:$usethreads" in
 ":define") d_ctermid_r_proto=define
  set d_ctermid_r_proto ctermid_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_ctermid_r_proto" in
 define)
 case "$ctermid_r_proto" in
 "|0) try='char* ctermid_r(char*);'
 ./protochk "$extern_C $try" $hdrs && ctermid_r_proto=B_B ;;
 esac
 case "$ctermid_r_proto" in
 "|0) d_ctermid_r=undef
  ctermid_r_proto=0
  echo "Disabling ctermid_r, cannot determine prototype." >&4 ;;
 * ) case "$ctermid_r_proto" in
  REENTRANT_PROTO*) ;;
  *)
 ctermid_r_proto="REENTRANT_PROTO_$ctermid_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "ctermid_r has no prototype, not using it." >&4 ;;
  esac
  d_ctermid_r=undef
  ctermid_r_proto=0
  ;;
 esac
 ;;
*) ctermid_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_ctermid_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_erf: Inlibc
?MAKE: -pick add $@ %<
?S:d_erf:
```

```
?S: This variable conditionally defines the HAS_ERF symbol, which
?S: indicates to the C program that the erf() routine is available.
?S:.
?C:HAS_ERF:
?C: This symbol, if defined, indicates that the erf routine is
?C: available to do the error function.
?C:.
?H:#$d_erf HAS_ERF  /**/
?H:.
?LINT:set d_erf
: see if erf exists
set erf d_erf
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_erf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sysman.U,v 3.0.1.2 1994/06/20 07:08:43 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sysman.U,v $
?RCS: Revision 3.0.1.2  1994/06/20  07:08:43  ram
?RCS: patch30: now explicitly states that /usr/man/man1 is the default
?RCS: patch30: added /usr/local/man/man1 to the search list
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:13:50  ram
?RCS: patch10: added support for /local/man/man1 (WAD)
?RCS: patch10: added temporary syspath variable to cut down on line length
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:55  ram
?RCS: Baseline for dist 3.0 netwide
 release.
?RCS:
?MAKE:sysman: test Loc Oldconfig
?MAKE: -pick add $@ %<
?S:sysman:
?S: This variable holds the place where the manual is located on this
?S: system. It is not the place where the user wants to put his manual
?S: pages. Rather it is the place where Configure may look to find manual
```

```
?S: for unix commands (section 1 of the manual usually). See mansrc.
?S:.
?T:syspath
: determine where manual pages are on this system
echo " "
case "$sysman" in
")
 syspath='/usr/share/man/man1 /usr/man/man1'
 syspath="$syspath /usr/man/mann /usr/man/manl /usr/man/local/man1"
 syspath="$syspath /usr/man/u_man/man1"
 syspath="$syspath /usr/catman/u_man/man1 /usr/man/l_man/man1"
 syspath="$syspath /usr/local/man/u_man/man1 /usr/local/man/l_man/man1"
 syspath="$syspath /usr/man/man.L /local/man/man1 /usr/local/man/man1"
 sysman=`./loc . /usr/man/man1 $syspath`
 ;;
esac
if $test -d "$sysman"; then
 echo "System manual is in $sysman." >&4
else
 echo "Could not find manual pages in source form."
 >&4
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/sysman.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_unistd.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_unistd.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_unistd: Inhdr
?MAKE: -pick add $@ %<
?S:i_unistd:
?S: This variable conditionally defines the I_UNISTD symbol, and indicates
?S: whether a C program should include <unistd.h>.
?S:.
```

```
?C:I_UNISTD:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <unistd.h>.
?C:.
?H:#$i_unistd I_UNISTD  /**/
?H:.
?LINT:set
 i_unistd
: see if this is a unistd.h system
set unistd.h i_unistd
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_unistd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2016 Tony Cook
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:dtraceobject dtracexnolibs: usedtrace dtrace cc ccflags optimize \
  Compile cat rm_try
?MAKE: -pick add $@ %<
?S:dtraceobject:
?S: Whether we need to build an object file with the dtrace tool.
?S:.
?S:dtracexnolibs:
?S: Whether dtrace accepts -xnolibs.  If available we call dtrace -h
?S: and dtrace -G with -xnolibs to allow dtrace to run in a jail on
?S: FreeBSD.
?S:.
?F: !perldtrace.h
?T:xnolibs
: Probe whether dtrace builds an object, as newer Illumos requires an input
: object file that uses at least one of the probes defined in the .d file
case "$usedtrace" in
$define)
   case "$dtracexnolibs" in
   $define|true|[yY]*)
       dtracexnolibs=$define
 $dtrace -h -xnolibs -s ../perldtrace.d -o perldtrace.h
 ;;
   ' '|'')
        if $dtrace -h -xnolibs -s ../perldtrace.d -o perldtrace.h 2>&1 ; then
      dtracexnolibs=$define
      echo "Your dtrace accepts -xnolibs"
```

```
 elif $dtrace -h -s ../perldtrace.d -o perldtrace.h 2>&1 ; then
     dtracexnolibs=$undef
     echo "Your dtrace doesn't accept -xnolibs"
 else
          echo "Your dtrace doesn't work at all, try building without dtrace support" >&4
     exit 1
 fi
 ;;
   *)
      dtracexnolibs=$undef
 $dtrace -h -s ../perldtrace.d -o perldtrace.h
 ;;
   esac
   case $dtracexnolibs in
   $define) xnolibs=-xnolibs ;;
   *) xnolibs= ;;
   esac

   case "$dtraceobject" in
   $define|true|[yY]*)
       dtraceobject=$define
       ;;
   ' '|'')
       $cat >try.c <<EOM
#include "perldtrace.h"
int main(void) {
   PERL_LOADED_FILE("dummy");
   return 0;
}
EOM
       dtraceobject=$undef
       if $cc -c -o try.o $optimize $ccflags try.c \
                && $dtrace -G $xnolibs -s ../perldtrace.d try.o >/dev/null 2>&1; then

         dtraceobject=$define
           echo "Your dtrace builds an object file"
       fi
       ;;
   *) dtraceobject=$undef ;;
   esac
   $rm_try perldtrace.o perldtrace.h
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/dtraceobject.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2008 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:sGMTIME_max sGMTIME_min sLOCALTIME_max sLOCALTIME_min: cat rm_try \
 Setvar Compile run
?MAKE: -pick add $@ %<
?S:sGMTIME_max:
?S: This variable defines the maximum value of the time_t offset that
?S: the system function gmtime () accepts
?S:.
?S:sGMTIME_min:
?S: This variable defines the minimum value of the time_t offset that
?S: the system function gmtime () accepts
?S:.
?S:sLOCALTIME_max:
?S: This variable defines the maximum value of the time_t offset that
?S: the system function localtime () accepts
?S:.
?S:sLOCALTIME_min:
?S: This variable defines the minimum value of the time_t offset that
?S: the system function localtime () accepts
?S:.
?C:GMTIME_MAX:
?C: This symbol contains the maximum value
 for the time_t offset that
?C: the system function gmtime () accepts, and defaults to 0
?C:.
?C:GMTIME_MIN:
?C: This symbol contains the minimum value for the time_t offset that
?C: the system function gmtime () accepts, and defaults to 0
?C:.
?C:LOCALTIME_MAX:
?C: This symbol contains the maximum value for the time_t offset that
?C: the system function localtime () accepts, and defaults to 0
?C:.
?C:LOCALTIME_MIN:
?C: This symbol contains the minimum value for the time_t offset that
?C: the system function localtime () accepts, and defaults to 0
?C:.
?H:#define GMTIME_MAX  $sGMTIME_max /**/
?H:#define GMTIME_MIN  $sGMTIME_min /**/
?H:#define LOCALTIME_MAX $sLOCALTIME_max /**/
?H:#define LOCALTIME_MIN $sLOCALTIME_min /**/
?H:.
```

```
?D:sGMTIME_max=0
?D:sGMTIME_min=0
?D:sLOCALTIME_max=0
?D:sLOCALTIME_min=0
?F:!try
: Check the max offset that gmtime and localtime accept
echo "Checking max offsets that gmtime () accepts"

case "$sGMTIME_min/$sGMTIME_max" in
   0/0|/)
 $cat >try.c <<EOCP
#include
 <sys/types.h>
#include <stdio.h>
#include <time.h>

int i;
struct tm *tmp;
time_t pt;

void gm_check (time_t t, int min_year, int max_year)
{
   tmp = gmtime (&t);
   if ( tmp == NULL ||
 /* Check tm_year overflow */
  tmp->tm_year < min_year || tmp->tm_year > max_year)
 tmp = NULL;
   else
 pt = t;
   } /* gm_check */

int check_max ()
{
   tmp = NULL;
   pt  = 0;
#ifdef MAXLONG
   gm_check (MAXLONG, 69, 0x7fffffff);
#endif
   if (tmp == NULL || tmp->tm_year < 0) {
 for (i = 63; i >= 0; i--) {
     time_t x = pt | ((time_t)1 << i);
     if (x < 0 || x < pt) continue;
     gm_check (x, 69, 0x7fffffff);
     }
 }
   printf ("sGMTIME_max=%ld\n", pt);
   return (0);
   } /* check_max */
```

```
int check_min ()
{
   tmp = NULL;
   pt  = 0;
#ifdef MINLONG
   gm_check (MINLONG, -1900, 70);
#endif
   if (tmp == NULL) {
 for (i = 36; i >= 0; i--) {
     time_t x = pt - ((time_t)1 << i);
     if (x > 0) continue;
     gm_check (x, -1900, 70);
     }
 }
   printf ("sGMTIME_min=%ld\n",
 pt);
   return (0);
   } /* check_min */

int main (int argc, char *argv[])
{
   /* fprintf (stderr, "Sizeof time_t = %ld\n", sizeof (time_t)); */
   check_max ();
   check_min ();
   return (0);
   } /* main */
EOCP
 set try
 if eval $compile; then
     eval `$run ./try 2>/dev/null`
 else
     echo "Cannot determine sGMTIME_max and sGMTIME_min." >&4
     fi
 $rm_try
 ;;
   esac

echo "Checking max offsets that localtime () accepts"

case "$sLOCALTIME_min/$sLOCALTIME_max" in
   0/0|/)
 $cat >try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#include <time.h>

int i;
```

```
struct tm *tmp;
time_t pt;

void local_check (time_t t, int min_year, int max_year)
{
   if (sizeof (time_t) > 4 && t > 0x7fffffffffff000LL)
 tmp = NULL;
   else
 tmp = localtime (&t);
   if ( tmp == NULL ||
 /* Check tm_year overflow */
  tmp->tm_year < min_year || tmp->tm_year > max_year)
 tmp = NULL;
   else
 pt = t;
   } /* local_check */

int check_max ()
{
   tmp = NULL;
   pt  = 0;
#ifdef
 MAXLONG
   local_check (MAXLONG, 69, 0x7fffffff);
#endif
   if (tmp == NULL || tmp->tm_year < 0) {
 for (i = 63; i >= 0; i--) {
     time_t x = pt | ((time_t)1 << i);
     if (x < 0 || x < pt) continue;
     local_check (x, 69, 0x7fffffff);
     }
 }
   printf ("sLOCALTIME_max=%ld\n", pt);
   return (0);
  } /* check_max */

int check_min ()
{
   tmp = NULL;
   pt  = 0;
#ifdef MINLONG
   local_check (MINLONG, -1900, 70);
#endif
   if (tmp == NULL) {
 for (i = 36; i >= 0; i--) {
     time_t x = pt - ((time_t)1 << i);
     if (x > 0) continue;
     local_check (x, -1900, 70);
```

```
    }
 }
   printf ("sLOCALTIME_min=%ld\n", pt);
   return (0);
   } /* check_min */

int main (int argc, char *argv[])
{
   check_max ();
   check_min ();
   return (0);
   } /* main */
EOCP
 set try
 if eval $compile; then
    eval `$run ./try 2>/dev/null`
 else
    echo "Cannot determine sLOCALTIME_max and sLOCALTIME_min." >&4
    fi
 $rm_try
 ;;
   esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/time_size.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Loc.U,v $
?RCS: Revision 3.0.1.10  1997/02/28  15:04:16  ram
?RCS: patch61: allow users to specify paths on the command line
?RCS: patch61: will now substitute cp for ln if not supported
?RCS:
?RCS: Revision 3.0.1.9  1995/09/25  09:11:24  ram
?RCS: patch59: commented the purpose of the #un-def directive
?RCS: patch59: abort Configure run when mandatory command is missing
?RCS:
?RCS: Revision 3.0.1.8  1995/07/25  13:40:40  ram
```

```
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.7
  1995/01/11  15:13:37  ram
?RCS: patch45: protected "sh -c" within backquotes for Linux and SGI
?RCS: patch45: added path lookup for the 'comm' program
?RCS:
?RCS: Revision 3.0.1.6  1994/10/29  15:56:14  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: be careful and guard against wildcard searching (ADO)
?RCS:
?RCS: Revision 3.0.1.5  1994/06/20  06:54:55  ram
?RCS: patch30: now locates find
?RCS:
?RCS: Revision 3.0.1.4  1994/05/13  15:18:15  ram
?RCS: patch27: added byacc to the trylist (ADO)
?RCS: patch27: lint lines reformatted (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/01/24  14:01:44  ram
?RCS: patch16: added metalint hint on changed PATH variable
?RCS:
?RCS: Revision 3.0.1.2  1993/12/15  08:16:52  ram
?RCS: patch15: now set _test variable when test is built-in
?RCS: patch15: fixed rare cases where echo is not needed
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  15:47:13  ram
?RCS: patch10: test program not always in /bin/test (WAD)
?RCS:
?RCS: Revision
 3.0  1993/08/18  12:05:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script "loc" which can be used to find out
?X: where in a list of directories something is.  It then uses loc to
?X: determine the location of commonly used programs.  It leaves loc sitting
?X: around for other Configure units to use, but arranges for its demise
?X: at the end of Configure.
?X:
?X: To add a new program to find, add it both to the ?MAKE: line and to either
?X: the loclist or trylist variable.
?X:
?X: I put startsh at the end of the dependency list, in order to avoid the
?X: loading of the spitshell unit before the instructions.
?X:
?MAKE:Loc awk ar bash bison byacc cat chgrp chmod chown \
 comm compress cp cpio cpp csh date echo egrep emacs expr find flex \
 gmake gzip grep inews ksh less line lint ln lp lpr ls mail mailx \
```

```
 make mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \
 shar sleep smail sort submit tail tar tbl tee test touch tr troff
 \
 uname uniq uuname vi zcat zip:  eunicefix n c startsh Instruct Warn
?MAKE: -pick weed $@ %<
?LINT:describe awk ar bash bison byacc cat chgrp chmod chown \
 comm compress cp cpio cpp csh date echo egrep emacs expr find flex \
 gmake gzip grep inews ksh less line lint ln lp lpr ls mail mailx \
 make mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \
 shar sleep smail sort submit tail tar tbl tee test touch tr troff \
 uname uniq uuname vi zcat zip
?V::pth loclist trylist
?F:./loc
?T:thisthing thing xxx dir file say DJGPP
?T:_test _grep _cp _gmake _egrep _ln _make dflt
?LINT: change PATH
: find out where common programs are
echo " "
echo "Locating common programs..." >&4
cat <<EOSC >loc
$startsh
case \$# in
0) exit 1;;
esac
thing=\$1
shift
dflt=\$1
shift
for dir in \$*; do
 case "\$thing" in
 .)
 if test -d \$dir/\$thing; then
  echo \$dir
  exit 0
 fi
 ;;
 *)
?X: Be careful in case thing includes wildcards that might expand to multiple
?X: files.  Choose the last one.
  This happens when searching for shared
?X: libraries with version numbers.  How to choose which one we want is
?X: probably an insoluble problem, in general.
?X: Some folks leave things like libc.so.orig around w/o read
?X: permission.  A -r test would handle that, but since ./loc is
?X: also used to find executables (which are installed w/o read
?X: permission on SCO ODT 3.0, we can't include the -r test.
 for thisthing in \$dir/\$thing; do
  : just loop through to pick last item
```

```
 done
 if test -f \$thisthing; then
  echo \$thisthing
  exit 0
 elif test -f \$thisthing$_exe; then
  echo \$thisthing
  exit 0
 elif test -f \$dir/\$thing.exe; then
  if test -n "$DJGPP"; then
   echo \$dir/\$thing.exe
  else
   : on Eunice apparently
   echo \$dir/\$thing
  fi
  exit 0
 fi
 ;;
 esac
done
echo \$dflt
exit 1
EOSC
chmod +x loc
$eunicefix loc
loclist="
?awk:awk
?cat:cat
?chgrp:chgrp
?chmod:chmod
?chown:chown
?comm:comm
?cp:cp
?echo:echo
?expr:expr
?find:find
?grep:grep
?ls:ls
?mkdir:mkdir
?mv:mv
?rm:rm
?sed:sed
?sleep:sleep
?sort:sort
?tail:tail
?touch:touch
?tr:tr
?uniq:uniq
"
```

```
trylist="
?Mcc:Mcc
?ar:ar
?bash:bash
?bison:bison
?byacc:byacc
?compress:compress
?cpio:cpio
?cpp:cpp
?csh:csh
?date:date
?egrep:egrep
?emacs:emacs
?flex:flex
?gmake:gmake
?gzip:gzip
?inews:inews
?ksh:ksh
?less:less
?line:line
?lint:lint
?ln:ln
?lp:lp
?lpr:lpr
?mail:mail
?mailx:mailx
?make:make
?more:more
?nm:nm
?nroff:nroff
?perl:perl
?pg:pg
?pmake:pmake
?pr:pr
?rmail:rmail
?sendmail:sendmail
?shar:shar
?smail:smail
?submit:submit
?tar:tar
?tbl:tbl
?tee:tee
?test:test
?troff:troff
?uname:uname
?uuname:uuname
?vi:vi
?zcat:zcat
```

```
?zip:zip
"
?LINT:set
 awk ar bash bison byacc cat chgrp chmod chown \
 comm compress cp cpio cpp csh date echo emacs expr find flex \
 gmake gzip grep inews ksh less line lint lp lpr ls mail mailx \
 mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \
 shar sleep smail sort submit tail tar tbl tee touch tr troff \
 uname uniq uuname vi zcat zip
pth=`echo $PATH | sed
 -e "s/$p_/ /g"`
pth="$pth /lib /usr/lib"
for file in $loclist; do
?X:
?X: Allow them to -Dmake=pmake on the command line for instance...
?X: If the file is not fully qualified, as in -Dmake=pmake, then we
?X: look the for the specified command (pmake here). If they say
?X: -Dmake=/sbin/make for instance, then we make sure the file
?X: exists, or we die...
?X:
 eval xxx=\$$file
 case "$xxx" in
 /*|?:[\\/]*)
  if test -f "$xxx"; then
   : ok
  else
   ./warn "no $xxx -- ignoring your setting for $file."
   xxx=`./loc $file $file $pth`
  fi
  ;;
 ") xxx=`./loc $file $file $pth`;;
 *) xxx=`./loc $xxx $xxx $pth`;;
 esac
 eval $file=$xxx$_exe
 eval _$file=$xxx
 case "$xxx" in
 /*)
  echo $file is in $xxx.
  ;;
?X: Under OS/2, we have PC-like paths
 ?:[\\/]*)
  echo $file is in $xxx.
  ;;
 *)
  echo "I don't know where '$file' is, and my life depends on it." >&4
  echo "Go find a public domain implementation or fix your PATH setting!" >&4
  exit 1
  ;;
```

```
 esac
done
echo " "
echo "Don't worry
 if any of the following aren't found..."
say=offhand
for file in $trylist; do
?X: Allow them to -Dmake=pmake on the command line for instance (see above)
 eval xxx=\$$file
 case "$xxx" in
 /*|?:[\\/]*)
  if test -f "$xxx"; then
   : ok
  else
   ./warn "no $xxx -- ignoring your setting for $file."
   xxx=`./loc $file $file $pth`
  fi
  ;;
 ") xxx=`./loc $file $file $pth`;;
 *) xxx=`./loc $xxx $xxx $pth`;;
 esac
 eval $file=$xxx$_exe
 eval _$file=$xxx
 case "$xxx" in
 /*)
  echo $file is in $xxx.
  ;;
?X: Under OS/2, we have PC-like paths
 ?:[\\/]*)
  echo $file is in $xxx.
  ;;
 *)
  echo "I don't see $file out there, $say."
  say=either
  ;;
 esac
done
case "$egrep" in
egrep)
 echo "Substituting grep for egrep."
 egrep=$grep
 _egrep=$_grep
 ;;
esac
@if ln
case "$ln" in
ln)
 echo "Substituting cp for ln."
```

```
 ln=$cp
 _ln=$_cp
 ;;
esac
@end
@if make || gmake
case "$make" in
make)
 case "$gmake" in
 gmake)
 echo "I can't find make or gmake, and my life depends on it." >&4
 echo "Go find a
 public domain implementation or fix your PATH setting!" >&4
 exit 1
 ;;
 esac
 ;;
esac
case "$gmake" in
gmake) ;;
*) # We can't have osname yet.
 if test -f "/system/gnu_library/bin/ar.pm"; then # Stratus VOS
  # Assume that gmake, if found, is definitely GNU make
  # and prefer it over the system make.
  echo "Substituting gmake for make."
  make=$gmake
  _make=$_gmake
 fi
 ;;
esac
@end
case "$test" in
test)
 echo "Hopefully test is built into your sh."
 ;;
*)
 if `sh -c "PATH= test true" >/dev/null 2>&1`; then
  echo "Using the test built into your sh."
?X:
?X: We need to set both test and _test, since Oldconfig.U will use the _test
?X: value to systematically restore computed paths, which may be wrong if
?X: we choose to load an old config.sh generated on another platform.
?X:
  test=test
  _test=test
 fi
 ;;
esac
```

```
?LINT:change n c
case "$echo" in
echo)
 echo "Hopefully echo is built into your sh."
 ;;
?X: For those rare cases where we don't need $echo...
") ;;
*)
 echo " "
echo "Checking
 compatibility between $echo and builtin echo (if any)..." >&4
 $echo $n "hi there$c" >foo1
 echo $n "hi there$c" >foo2
 if cmp foo1 foo2 >/dev/null 2>&1; then
  echo "They are compatible.  In fact, they may be identical."
 else
  case "$n" in
  '-n') n=" c='\c';;
  *) n='-n' c=";;
  esac
  cat <<FOO
They are not compatible!  You are probably running ksh on a non-USG system.
I'll have to use $echo instead of the builtin, since Bourne shell doesn't
have echo built in and we may have to run some Bourne shell scripts.  That
means I'll have to use '$n$c' to suppress newlines now.  Life is ridiculous.

FOO
  $echo $n "The star should be here-->$c"
  $echo "*"
 fi
 $rm -f foo1 foo2
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Loc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Loc.U 14 2006-08-28 16:51:14Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: Loc.U,v $
?RCS: Revision 3.0.1.10  1997/02/28  15:04:16  ram
?RCS: patch61: allow users to specify paths on the command line
?RCS: patch61: will now substitute cp for ln if not supported
?RCS:
?RCS: Revision 3.0.1.9  1995/09/25  09:11:24  ram
?RCS: patch59: commented the purpose of the #un-def directive
?RCS: patch59: abort Configure run when mandatory command is missing
?RCS:
?RCS: Revision 3.0.1.8  1995/07/25  13:40:40  ram
?RCS: patch56: now knows about
 OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.7  1995/01/11  15:13:37  ram
?RCS: patch45: protected "sh -c" within backquotes for Linux and SGI
?RCS: patch45: added path lookup for the 'comm' program
?RCS:
?RCS: Revision 3.0.1.6  1994/10/29  15:56:14  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: be careful and guard against wildcard searching (ADO)
?RCS:
?RCS: Revision 3.0.1.5  1994/06/20  06:54:55  ram
?RCS: patch30: now locates find
?RCS:
?RCS: Revision 3.0.1.4  1994/05/13  15:18:15  ram
?RCS: patch27: added byacc to the trylist (ADO)
?RCS: patch27: lint lines reformatted (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/01/24  14:01:44  ram
?RCS: patch16: added metalint hint on changed PATH variable
?RCS:
?RCS: Revision 3.0.1.2  1993/12/15  08:16:52  ram
?RCS: patch15: now set _test variable when test is built-in
?RCS: patch15: fixed rare cases where echo is not needed
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  15:47:13  ram
?RCS: patch10: test program not always
 in /bin/test (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script "loc" which can be used to find out
?X: where in a list of directories something is.  It then uses loc to
?X: determine the location of commonly used programs.  It leaves loc sitting
?X: around for other Configure units to use, but arranges for its demise
```

```
?X: at the end of Configure.
?X:
?X: To add a new program to find, add it both to the ?MAKE: line and to either
?X: the loclist or trylist variable.
?X:
?X: I put startsh at the end of the dependency list, in order to avoid the
?X: loading of the spitshell unit before the instructions.
?X:
?MAKE:Loc awk ar bash bison byacc cat chgrp chmod chown \
 comm compress cp cpio cpp csh date echo egrep emacs expr find flex \
 gmake gzip grep inews ksh less line lint ln lp lpr ls mail mailx \
 make mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \
 shar sleep smail sort
 submit tail tar tbl tee test touch tr troff \
 uname uniq uuname vi zcat zip: eunicefix n c startsh Instruct sysroot
?MAKE: -pick weed $@ %<
?LINT:describe awk ar bash bison byacc cat chgrp chmod chown \
 comm compress cp cpio cpp csh date echo egrep emacs expr find flex \
 gmake gzip grep inews ksh less line lint ln lp lpr ls mail mailx \
 make mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \
 shar sleep smail sort submit tail tar tbl tee test touch tr troff \
 uname uniq uuname vi zcat zip
?V::pth loclist trylist
?F:./loc test_h
?T:thisthing thing xxx dir file say _test DJGPP
?LINT:change PATH _egrep _ln _make _less
?LINT:extern _exe
: find out where common programs are
echo " "
echo "Locating common programs..." >&4
cat <<EOSC >loc
$startsh
case \$# in
0) exit 1;;
esac
thing=\$1
shift
dflt=\$1
shift
for dir in \$*; do
 case "\$thing" in
 .)
 if test -d \$dir/\$thing; then
  echo \$dir
  exit 0
 fi
 ;;
 *)
```

```
?X: Be careful in case thing includes wildcards that might expand
 to multiple
?X: files.  Choose the last one.  This happens when searching for shared
?X: libraries with version numbers.  How to choose which one we want is
?X: probably an insoluble problem, in general.
?X: Some folks leave things like libc.so.orig around w/o read
?X: permission.  A -r test would handle that, but since ./loc is
?X: also used to find executables (which are installed w/o read
?X: permission on SCO ODT 3.0, we can't include the -r test.
?X: If you need to use an _exe that is different from .exe
?X: you need to set it in Head.U.
 for thisthing in \$dir/\$thing; do
  : just loop through to pick last item
 done
 if test -f \$thisthing; then
  echo \$thisthing
  exit 0
 elif test "X$_exe" != X -a -f \$thisthing$_exe; then
  echo \$thisthing
  exit 0
 elif test -f \$dir/\$thing.exe; then
  if test -n "$DJGPP"; then
   echo \$dir/\$thing.exe
  elif test "$eunicefix" != ":"; then
   : on Eunice apparently
   echo \$dir/\$thing
  fi
  exit 0
 fi
 ;;
 esac
done
echo \$dflt
exit
 1
EOSC
chmod +x loc
$eunicefix loc
loclist="
?awk:awk
?cat:cat
?chgrp:chgrp
?chmod:chmod
?chown:chown
?comm:comm
?cp:cp
?echo:echo
?expr:expr
```

```
?find:find
?grep:grep
?ls:ls
?mkdir:mkdir
?mv:mv
?rm:rm
?sed:sed
?sleep:sleep
?sort:sort
?tail:tail
?touch:touch
?tr:tr
?uniq:uniq
"
trylist="
?Mcc:Mcc
?ar:ar
?bash:bash
?bison:bison
?byacc:byacc
?compress:compress
?cpio:cpio
?cpp:cpp
?csh:csh
?date:date
?egrep:egrep
?emacs:emacs
?flex:flex
?gmake:gmake
?gzip:gzip
?inews:inews
?ksh:ksh
?less:less
?line:line
?lint:lint
?ln:ln
?lp:lp
?lpr:lpr
?mail:mail
?mailx:mailx
?make:make
?more:more
?nm:nm
?nroff:nroff
?perl:perl
?pg:pg
?pmake:pmake
?pr:pr
```

```
?rmail:rmail
?sendmail:sendmail
?shar:shar
?smail:smail
?submit:submit
?tar:tar
?tbl:tbl
?tee:tee
?test:test
?troff:troff
?uname:uname
?uuname:uuname
?vi:vi
?zcat:zcat
?zip:zip
"
?LINT:set awk ar bash bison byacc cat chgrp chmod chown \
 comm compress cp cpio cpp csh date echo emacs expr find flex \
 gmake gzip grep inews ksh line lint lp lpr ls mail mailx
 \
 mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \
 shar sleep smail sort submit tail tar tbl tee touch tr troff \
 uname uniq uuname vi zcat zip
pth=`echo $PATH | sed -e "s/$p_/ /g"`
pth="$pth $sysroot/lib $sysroot/usr/lib"
for file in $loclist; do
?X:
?X: Allow them to -Dmake=pmake on the command line for instance...
?X: If the file is not fully qualified, as in -Dmake=pmake, then we
?X: look the for the specified command (pmake here). If they say
?X: -Dmake=/sbin/make for instance, then we make sure the file
?X: exists, or we die...
?X:
 eval xxx=\$$file
 case "$xxx" in
 /*|?:[\\/]*)
  if test -f "$xxx"; then
   : ok
  else
   echo "WARNING: no $xxx -- ignoring your setting for $file." >&4
   xxx=`./loc $file $file $pth`
  fi
  ;;
 ") xxx=`./loc $file $file $pth`;;
 *) xxx=`./loc $xxx $xxx $pth`;;
 esac
 eval $file=$xxx$_exe
 eval _$file=$xxx
```

```
 case "$xxx" in
 /*)
  echo $file is in $xxx.
  ;;
?X: Under OS/2, we have PC-like paths
 ?:[\\/]*)
  echo $file is in $xxx.
  ;;
 *)
  echo
 "I don't know where '$file' is, and my life depends on it." >&4
  echo "Go find a public domain implementation or fix your PATH setting!" >&4
  exit 1
  ;;
 esac
done
echo " "
echo "Don't worry if any of the following aren't found..."
say=offhand
for file in $trylist; do
?X: Allow them to -Dmake=pmake on the command line for instance (see above)
 eval xxx=\$$file
 case "$xxx" in
 /*|?:[\\/]*)
  if test -f "$xxx"; then
   : ok
  else
   echo "WARNING: no $xxx -- ignoring your setting for $file." >&4
   xxx=`./loc $file $file $pth`
  fi
  ;;
 ") xxx=`./loc $file $file $pth`;;
 *) xxx=`./loc $xxx $xxx $pth`;;
 esac
 eval $file=$xxx$_exe
 eval _$file=$xxx
 case "$xxx" in
 /*)
  echo $file is in $xxx.
  ;;
?X: Under OS/2, we have PC-like paths
 ?:[\\/]*)
  echo $file is in $xxx.
  ;;
 *)
  echo "I don't see $file out there, $say."
  say=either
  ;;
```

```
 esac
done
case "$egrep" in
egrep)
 echo "Substituting grep for egrep."
 egrep=$grep
 _egrep=$grep
 ;;
esac
@if less
case "$less"
 in
") ;;
*) if $less -R </dev/null >/dev/null 2>&1; then
        echo "Substituting less -R for less."
        less="$less -R"
        _less=$less
 fi
 ;;
esac
@end
@if ln
case "$ln" in
ln)
 echo "Substituting cp for ln."
 ln=$cp
 _ln=$cp
 ;;
esac
@end
@if make || gmake
case "$make" in
make)
 case "$gmake" in
 gmake)
 echo "I can't find make or gmake, and my life depends on it." >&4
 echo "Go find a public domain implementation or fix your PATH setting!" >&4
 exit 1
 ;;
 esac
 ;;
esac
case "$gmake" in
gmake) ;;
*) # We can't have osname yet.
 if test -f "/system/gnu_library/bin/ar.pm"; then # Stratus VOS
  # Assume that gmake, if found, is definitely GNU make
  # and prefer it over the system make.
```

```
  echo "Substituting gmake for make."
  make=$gmake
  _make=$gmake
 fi
 ;;
esac
@end
case "$test" in
test)
 echo "Hopefully test is built into your sh."
 ;;
*)
 if `sh -c "PATH= test true" >/dev/null 2>&1`; then
  echo "Using the test built into your sh."
?X:
?X: We need to set both test
 and _test, since Oldconfig.U will use the _test
?X: value to systematically restore computed paths, which may be wrong if
?X: we choose to load an old config.sh generated on another platform.
?X:
  test=test
  _test=test
 fi
 ;;
esac
?LINT:change n c
case "$echo" in
echo)
 echo "Hopefully echo is built into your sh."
 ;;
?X: For those rare cases where we don't need $echo...
") ;;
*)
 echo " "
echo "Checking compatibility between $echo and builtin echo (if any)..." >&4
 $echo $n "hi there$c" >foo1
 echo $n "hi there$c" >foo2
 if cmp foo1 foo2 >/dev/null 2>&1; then
  echo "They are compatible.  In fact, they may be identical."
 else
  case "$n" in
  '-n') n=" c='\c';;
  *) n='-n' c=";;
  esac
  cat <<FOO
They are not compatible!  You are probably running ksh on a non-USG system.
I'll have to use $echo instead of the builtin, since Bourne shell doesn't
have echo built in and we may have to run some Bourne shell scripts.  That
```

```
means I'll have to use '$n$c' to suppress newlines now.
  Life is ridiculous.

FOO
  $echo $n "The star should be here-->$c"
  $echo "*"
 fi
 $rm -f foo1 foo2
 ;;
esac

?X: The next part is irrelevant to the real process
# This question was auctioned at YAPC::Europe-2007 in Vienna
# I never promised you could answer it. I only auctioned the question.
cat <<FOO
The following message is sponsored by

 Dresden.pm<--The stars should be here.

Dear Perl user, system administrator or package
maintainer, the Perl community sends greetings to
you. Do you (emblematical) greet back [Y/n]? n

FOO

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
5.36.0/U/modified/Loc.U
No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_erfc: Inlibc
?MAKE: -pick add $@ %<
?S:d_erfc:
?S: This variable conditionally defines the HAS_ERFC symbol, which
?S: indicates to the C program that the erfc() routine is available.
?S:.
?C:HAS_ERFC:
?C: This symbol, if defined, indicates that the erfc routine is
?C: available to do the complementary error function.
?C:.
?H:#$d_erfc HAS_ERFC  /**/
?H:.
?LINT:set d_erfc
: see if erfc exists
set erfc d_erfc
```

```
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_erfc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_killpg.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_killpg.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_killpg: Inlibc
?MAKE: -pick add $@ %<
?S:d_killpg:
?S: This variable conditionally defines the HAS_KILLPG symbol, which
?S: indicates to the C program that the killpg() routine is available
?S: to kill process groups.
?S:.
?C:HAS_KILLPG (KILLPG):
?C: This symbol, if defined, indicates that the killpg routine is available
?C: to kill
 process groups.  If unavailable, you probably should use kill
?C: with a negative process number.
?C:.
?H:#$d_killpg HAS_KILLPG /**/
?H:.
?LINT:set d_killpg
: see if killpg exists
set killpg d_killpg
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_killpg.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: usrinc.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:27:12  ram
?RCS: patch61: don't ask for the include path unless they are on a MIPS
?RCS:
?RCS: Revision 3.0.1.2  1995/05/12  12:24:36  ram
?RCS: patch54: ensure that ./mips always exists (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:18:31  ram
?RCS: patch23: ensure usrinc value is preserved across sessions (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:usrinc incpath mips_type:
 test cat echo n c Getfile Guess \
 Oldconfig eunicefix contains rm
?MAKE: -pick add $@ %<
?S:usrinc:
?S: This variable holds the path of the include files, which is
?S: usually /usr/include. It is mainly used by other Configure units.
?S:.
?S:incpath:
?S: This variable must preceed the normal include path to get hte
?S: right one, as in "$incpath/usr/include" or "$incpath/usr/lib".
?S: Value can be "" or "/bsd43" on mips.
?S:.
?S:mips_type:
?S: This variable holds the environment type for the mips system.
?S: Possible values are "BSD 4.3" and "System V".
?S:.
?D:usrinc='/usr/include'
?LINT:create mips
?T:xxx_prompt
?F:./mips
: What should the include directory be ?
echo " "
$echo $n "Hmm...  $c"
dflt='/usr/include'
incpath=''
?X: mips_type is used later, to add -DSYSTYPE_BSD43 to cppflags if needed.
```

```
mips_type=''
?X:
?X: Cannot put the following in Guess, or we get a circular dependency.
?X:
if $test -f /bin/mips && /bin/mips; then
 echo "Looks like a MIPS system..."
 $cat >usr.c
 <<'EOCP'
#ifdef SYSTYPE_BSD43
/bsd43
#endif
EOCP
 if cc -E usr.c > usr.out && $contains / usr.out >/dev/null 2>&1; then
  dflt='/bsd43/usr/include'
  incpath='/bsd43'
  mips_type='BSD 4.3'
 else
  mips_type='System V'
 fi
 $rm -f usr.c usr.out
 echo "and you're compiling with the $mips_type compiler and libraries."
 xxx_prompt=y
 echo "exit 0" >mips
else
 echo "Doesn't look like a MIPS system."
 xxx_prompt=n
 echo "exit 1" >mips
fi
chmod +x mips
$eunicefix mips
case "$usrinc" in
'') ;;
*) dflt="$usrinc";;
esac
case "$xxx_prompt" in
y) fn=d/
 echo " "
 rp='Where are the include files you want to use?'
 . ./getfile
 usrinc="$ans"
 ;;
*) usrinc="$dflt"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/usrinc.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: cpp_trad.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cpp_stuff.U,v $
?MAKE:cpp_trad: cpp cat contains rm
?MAKE: -pick add $@ %<
?S:cpp_trad:
?S: This variable contains the program to run to get traditional C
?S: preprocessor semantics and not ISO C semantics: we want something
?S: that knows as little about C as possible to use as a more general
?S: purpose preprocessor.
?S:.
?F:!foo.c !foo.cpp
: how do we get traditional cpp semantics?
echo " "
echo "Checking to see how to get traditional cpp semantics..."
 >&4
$cat >foo.c <<'EOF'
#define A(x) x
#define B(y) y
A(a)B(b)
EOF
if $cpp foo.c >foo.cpp; $contains ab foo.cpp >/dev/null 2>&1; then
 echo "Plain '$cpp' works just fine."
 cpp_trad="$cpp"
elif $cpp -traditional foo.c >foo.cpp; \
 $contains ab foo.cpp >/dev/null 2>&1; then
 echo "We'll use '$cpp -traditional' to get proper semantics."
 cpp_trad="$cpp -traditional"
else
 echo "I don't know how to get traditional semantics with '$cpp'." >&4
 cpp_trad="$cpp"
fi
$rm -f foo.c foo.cpp
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/cpp_trad.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pwritev.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_pwritev.U,v $
?RCS:
?MAKE:d_pwritev: Inlibc
?MAKE: -pick add $@ %<
?S:d_pwritev:
?S: This variable conditionally defines the HAS_PWRITEV symbol, which
?S: indicates to the C program that the pwritev() routine is available.
?S:.
?C:HAS_PWRITEV :
?C: This symbol, if defined, indicates that the pwritev routine is
?C: available to perform vectored writes on a file descriptor at a
?C: given offset.
?C:.
?H:#$d_pwritev HAS_PWRITEV  /**/
?H:.
?LINT:set
 d_pwritev
: see if pwritev exists
set pwritev d_pwritev
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_pwritev.U
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```
?RCS: $Id: filexp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
```

```
?RCS: $Log: filexp.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:filexp: privlib
?MAKE: -pick add $@ %<
?S:filexp:
?S: This symbol contains the full pathname of the filexp script, in case we
?S: are saving the script for posterity.
?S:.
: must not allow self reference
case "$privlib" in
 /*)
 filexp=$privlib/filexp
 ;;
 *)
 filexp=`pwd`/filexp
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/filexp_path.U
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```
?RCS: $Id: d_alarm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_alarm.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:06:58  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_alarm: Inlibc
?MAKE: -pick add $@ %<
?S:d_alarm:
?S: This variable conditionally defines the HAS_ALARM symbol, which
?S: indicates to the C program that the alarm() routine is available.
?S:.
?C:HAS_ALARM :
```

```
?C: This symbol, if defined, indicates that the alarm routine is
?C: available.
?C:.
?H:#$d_alarm
 HAS_ALARM  /**/
?H:.
?LINT:set d_alarm
: see if alarm exists
set alarm d_alarm
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_alarm.U
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```
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?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_gconvert.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:33:38  ram
?RCS: patch61: integrated new unit from perl5
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  13:55:59  ram
?RCS: patch56: improved comments about the Gconvert macro (ADO)
?RCS: patch56: force compile-link test since it may exist but be unusable (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:12:51  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_Gconvert:
 cat cc ccflags ldflags libs rm_try _o
?MAKE: -pick add $@ %<
?S:d_Gconvert:
?S: This variable holds what Gconvert is defined as to convert
?S: floating point numbers into strings. It could be 'gconvert'
?S: or a more complex macro emulating gconvert with gcvt() or sprintf.
?S:.
?C:Gconvert:
```

```
?C: This preprocessor macro is defined to convert a floating point
?C: number to a string without a trailing decimal point.  This
?C: emulates the behavior of sprintf("%g"), but is sometimes much more
?C: efficient.  If gconvert() is not available, but gcvt() drops the
?C: trailing decimal point, then gcvt() is used.  If all else fails,
?C: a macro using sprintf("%g") is used. Arguments for the Gconvert
?C: macro are: value, number of digits, whether trailing zeros should
?C: be retained, and the output buffer.
?C: Possible values are:
?C:  d_Gconvert='gconvert((x),(n),(t),(b))'
?C:  d_Gconvert='gcvt((x),(n),(b))'
?C:  d_Gconvert='sprintf((b),"%.*g",(n),(x))'
?C: The last two assume trailing zeros should
 not be kept.
?C:.
?H:#define Gconvert(x,n,t,b) $d_Gconvert
?H:.
?T: xxx_list xxx_convert
?F:!try
?X:
: Check how to convert floats to strings.
echo " "
echo "Checking for an efficient way to convert floats to strings."
?X: We want to be sure to drop trailing decimal points (perl5
?X: needs this).
$cat >try.c <<'EOP'
#ifdef TRY_gconvert
#define Gconvert(x,n,t,b) gconvert((x),(n),(t),(b))
char *myname = "gconvert";
#endif
#ifdef TRY_gcvt
#define Gconvert(x,n,t,b) gcvt((x),(n),(b))
char *myname = "gcvt";
#endif
#ifdef TRY_sprintf
#define Gconvert(x,n,t,b) sprintf((b),"%.*g",(n),(x))
char *myname = "sprintf";
#endif

#include <stdio.h>

int
checkit(expect, got)
char *expect;
char *got;
{
   if (strcmp(expect, got)) {
  printf("%s oddity:  Expected %s, got %s\n",
```

```
   myname, expect, got);
  exit(1);
 }
}

int
int main()
{
 char buf[64];
 buf[63] = '\0';

 /* This must be 1st test on (which?) platform */
 /* Alan Burlison <AlanBurlsin@unn.unisys.com> */
 Gconvert(0.1, 8, 0, buf);
 checkit("0.1",
 buf);

 Gconvert(1.0, 8, 0, buf);
 checkit("1", buf);

 Gconvert(0.0, 8, 0, buf);
 checkit("0", buf);

 Gconvert(-1.0, 8, 0, buf);
 checkit("-1", buf);

 /* Some Linux gcvt's give 1.e+5 here. */
 Gconvert(100000.0, 8, 0, buf);
 checkit("100000", buf);

 /* Some Linux gcvt's give -1.e+5 here. */
 Gconvert(-100000.0, 8, 0, buf);
 checkit("-100000", buf);

 exit(0);
}
EOP
?X: List of order in which to search for functions.
?X: Usual order of efficiency is gconvert gcvt sprintf
?X: Respect a previous or hinted value.
case "$d_Gconvert" in
gconvert*) xxx_list='gconvert gcvt sprintf' ;;
gcvt*) xxx_list='gcvt gconvert sprintf' ;;
sprintf*) xxx_list='sprintf gconvert gcvt' ;;
*) xxx_list='gconvert gcvt sprintf' ;;
esac

for xxx_convert in $xxx_list; do
```

```
 echo "Trying $xxx_convert"
 $rm_try
 if $cc $ccflags -DTRY_$xxx_convert $ldflags -o try \
  try.c $libs > /dev/null 2>&1 ; then
  echo "$xxx_convert" found. >&4
  if ./try; then
   echo "I'll use $xxx_convert to convert floats
 into a string." >&4
   break;
  else
   echo "...But $xxx_convert didn't work as I expected."
  fi
 else
  echo "$xxx_convert NOT found." >&4
 fi
done

case "$xxx_convert" in
gconvert) d_Gconvert='gconvert((x),(n),(t),(b))' ;;
gcvt) d_Gconvert='gcvt((x),(n),(b))' ;;
*) d_Gconvert='sprintf((b),"%.*g",(n),(x))' ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_gconvert.U
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```
?RCS: $Id: i_dbm.U 1 2006-08-24 12:32:52Z rmanfredi $
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_dbm.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:48:20  ram
?RCS: patch61: added I_RPCSVC_DBM check
?RCS:
?RCS: Revision 3.0.1.1  1995/05/12  12:16:05  ram
?RCS: patch54: made more robust by checking both header and lib (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:i_dbm i_rpcsvcdbm: Inhdr Inlibc Setvar
?MAKE: -pick add $@ %<
?S:i_dbm (d_odbm):
?S: This variable conditionally defines
 the I_DBM symbol, which
?S: indicates to the C program that <dbm.h> exists and should
?S: be included.
?S:.
?S:i_rpcsvcdbm:
?S: This variable conditionally defines the I_RPCSVC_DBM symbol, which
?S: indicates to the C program that <rpcsvc/dbm.h> exists and should
?S: be included.  Some System V systems might need this instead of <dbm.h>.
?S:.
?C:I_DBM (HAS_ODBM ODBM):
?C: This symbol, if defined, indicates that <dbm.h> exists and should
?C: be included.
?C:.
?C:I_RPCSVC_DBM:
?C: This symbol, if defined, indicates that <rpcsvc/dbm.h> exists and
?C: should be included.
?C:.
?H:#$i_dbm I_DBM /**/
?H:#$i_rpcsvcdbm I_RPCSVC_DBM /**/
?H:.
?T:d_dbmclose
?LINT:set i_dbm i_rpcsvcdbm
: see if dbm.h is available
?X: We might just have the header, not the library.
?X: We look for dbmclose() rather than dbminit() because
?X: some versions of SCO Unix have -ldbm, but are missing dbmclose(). -- ADO
?X: Some System V systems have <rpcsvc/dbm.h> instead of <dbm.h>.
: see if dbmclose exists
set dbmclose
 d_dbmclose
eval $inlibc

case "$d_dbmclose" in
$define)
 set dbm.h i_dbm
 eval $inhdr
 case "$i_dbm" in
 $define)
  val="$undef"
  set i_rpcsvcdbm
  eval $setvar
  ;;
 *) set rpcsvc/dbm.h i_rpcsvcdbm
  eval $inhdr
```

```
  ;;
 esac
 ;;
*) echo "We won't be including <dbm.h>"
 val="$undef"
 set i_dbm
 eval $setvar
 val="$undef"
 set i_rpcsvcdbm
 eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_dbm.U
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```
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?RCS:
?MAKE:d_getnameinfo: Inlibc
?MAKE: -pick add $@ %<
?S:d_getnameinfo:
?S: This variable conditionally defines the HAS_GETNAMEINFO symbol,
?S: which indicates to the C program that the getnameinfo() function
?S: is available.
?S:.
?C:HAS_GETNAMEINFO:
?C: This symbol, if defined, indicates that the getnameinfo() function
?C: is available for use.
?C:.
?H:#$d_getnameinfo HAS_GETNAMEINFO  /**/
?H:.
?LINT:set d_getnameinfo
: see if getnameinfo exists
set getnameinfo d_getnameinfo
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_getnameinfo.U
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```
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?RCS:
?MAKE:d_fchdir: Inlibc
?MAKE: -pick add $@ %<
?S:d_fchdir:
?S: This variable conditionally defines the HAS_FCHDIR symbol, which
?S: indicates to the C program that the fchdir() routine is available.
?S:.
?C:HAS_FCHDIR:
?C: This symbol, if defined, indicates that the fchdir routine is
?C: available to change directory using a file descriptor.
?C:.
?H:#$d_fchdir HAS_FCHDIR  /**/
?H:.
?LINT:set d_fchdir
: see if fchdir exists
set fchdir d_fchdir
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fchdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_crypt.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_crypt.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:31:47  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_crypt cryptlib: Loc test xlibpth libpth Csym Setvar _a Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_crypt:
?S: This variable conditionally defines the CRYPT symbol, which
?S: indicates to the C program that the crypt() routine is available
?S: to
 encrypt passwords and the like.
?S:.
?S:cryptlib:
?S: This variable holds -lcrypt or the path to a libcrypt.a archive if
?S: the crypt() function is not defined in the standard C library. It is
?S: up to the Makefile to use this.
?S:.
?C:HAS_CRYPT (CRYPT):
?C: This symbol, if defined, indicates that the crypt routine is available
?C: to encrypt passwords and the like.
?C:.
?H:#$d_crypt HAS_CRYPT  /**/
?H:.
?LINT:set d_crypt
?T:val
: see if crypt exists
echo " "
set crypt d_crypt
eval $inlibc
case "$d_crypt" in
$define) cryptlib=" ;;
*) if set crypt val -f d_crypt; eval $csym; $val; then
  echo 'crypt() found.' >&4
  val="$define"
  cryptlib="
 else
  cryptlib=`./loc Slibcrypt$_a "" $xlibpth`
  if $test -z "$cryptlib"; then
   cryptlib=`./loc Mlibcrypt$_a "" $xlibpth`
  else
   cryptlib=-lcrypt
  fi
  if $test -z "$cryptlib"; then
   cryptlib=`./loc Llibcrypt$_a "" $xlibpth`
  else
   cryptlib=-lcrypt
  fi
  if $test -z "$cryptlib"; then
   cryptlib=`./loc libcrypt$_a ""
 $libpth`
  else
   cryptlib=-lcrypt
  fi
  if $test -z "$cryptlib"; then
```

```
  echo 'crypt() NOT found.' >&4
  val="$undef"
 else
  val="$define"
 fi
fi
set d_crypt
eval $setvar
;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_crypt.U
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```
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?RCS:
?MAKE:d_lrint: Inlibc
?MAKE: -pick add $@ %<
?S:d_lrint:
?S: This variable conditionally defines the HAS_LRINT symbol, which
?S: indicates to the C program that the lrint() routine is available
?S: to return the integral value closest to a double (according
?S: to the current rounding mode).
?S:.
?C:HAS_LRINT:
?C: This symbol, if defined, indicates that the lrint routine is
?C: available to return the integral value closest to a double
?C: (according to the current rounding mode).
?C:.
?H:#$d_lrint HAS_LRINT  /**/
?H:.
?LINT:set d_lrint
: see if lrint exists
set lrint d_lrint
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_lrint.U
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```
?RCS: $Id: sbrktype.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sbrktype.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:43  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:sbrktype: Myread Oldconfig Loc contains Findhdr
?MAKE: -pick add $@ %<
?S:sbrktype:
?S: This variable defines sbrktype to be something like caddr_t, char *,
?S: or whatever type is used to declare sbrk() in the kernel.
?S:.
?C:Caddr_t (SBRKTYPE):
?C: This symbol holds the type of a core address. It is inteded to be used
?C: to safely
 declare the return type of system calls like sbrk(). It might
?C: be necessary to include <sys/types.h> as well.
?C:.
?H:#define Caddr_t $sbrktype /* <core address> type */
?H:.
: see what type sbrk is declared as in the kernel
case "$sbrktype" in
")
 if $contains 'caddr_t;' `./findhdr sys/types.h` >/dev/null 2>&1 ; then
  dflt='caddr_t';
 else
  dflt='char *';
 fi
 ;;
*)  dflt="$sbrktype"
 ;;
esac
echo " "
rp="What is the return type of sbrk() on this system?"
. ./myread
sbrktype="$ans"
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/sbrktype.U
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```
?RCS: $Id$
?RCS:
```

```
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?RCS:
?MAKE:d_strtod_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtod_l:
?S: This variable conditionally defines the HAS_STRTOD_L symbol, which
?S: indicates to the C program that the strtod_l() routine is available.
?S:.
?C:HAS_STRTOD_L:
?C: This symbol, if defined, indicates that the strtod_l routine is
?C: available to convert strings to long doubles.
?C:.
?H:#$d_strtod_l HAS_STRTOD_L  /**/
?H:.
?LINT:set d_strtod_l
: see if strtod_l exists
set strtod_l d_strtod_l
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_strtod_l.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Myinit.U,v $
?RCS: Revision 3.0.1.1  1994/10/31  09:47:29  ram
?RCS: patch44: leading comment states this unit comes before option processing
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: If you want to initialize any default values, copy this unit to your
?X: personal U directory and add the assignments to the end.  This file
?X: is included after variables are initialized but before any old
```

?X: config.sh file is read in and before
 any Configure switch processing.
?X:
?MAKE:Myinit: Init
?MAKE: -pick add $@ %<
?LINT: nocomment

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Myinit.U
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_varhdr.U,v $
?RCS: Revision 3.0.1.3 1997/02/28 15:54:42 ram
?RCS: patch61: varargs script now starts with leading "startsh"
?RCS:
?RCS: Revision 3.0.1.2 1994/10/29 16:21:02 ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.1 1994/05/13 15:26:05 ram
?RCS: patch27: this unit now supersedes old i_stdarg.U and i_varargs.U
?RCS: patch27: modified to avoid spurious Whoa warnings (ADO)
?RCS:
?RCS: Revision 3.0 1993/08/18 12:08:49 ram
?RCS: Baseline for
 dist 3.0 netwide release.
?RCS:
?MAKE:i_stdarg i_varargs i_varhdr: cat +cc +ccflags rm test Setvar \
 Findhdr Warn startsh _o
?MAKE: -pick add $@ %<
?S:i_stdarg:
?S: This variable conditionally defines the I_STDARG symbol, which
?S: indicates to the C program that <stdarg.h> exists and should
?S: be included.
?S:.
?S:i_varargs:
?S: This variable conditionally defines I_VARARGS, which indicates
?S: to the C program that it should include <varargs.h>.

```
?S:.
?S:i_varhdr:
?S: Contains the name of the header to be included to get va_dcl definition.
?S: Typically one of varargs.h or stdarg.h.
?S:.
?C:I_STDARG:
?C: This symbol, if defined, indicates that <stdarg.h> exists and should
?C: be included.
?C:.
?C:I_VARARGS:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <varargs.h>.
?C:.
?H:#$i_stdarg I_STDARG  /**/
?H:#$i_varargs I_VARARGS /**/
?H:.
?W:%<:va_dcl
?F:!varargs
?T:valstd
?LINT:set i_stdarg i_varargs
?X:
?X: Don't use setvar because the varags test
 below might override these.
?X: Actually, the messages here are just informative. We don't wish to set
?X: i_varargs or i_stdarg to their final value before knowing which of the
?X: two we'll include.
?X:
: see if stdarg is available
echo " "
if $test `./findhdr stdarg.h`; then
 echo "<stdarg.h> found." >&4
 valstd="$define"
else
 echo "<stdarg.h> NOT found." >&4
 valstd="$undef"
fi

: see if varags is available
echo " "
if $test `./findhdr varargs.h`; then
 echo "<varargs.h> found." >&4
else
 echo "<varargs.h> NOT found, but that's ok (I hope)." >&4
fi

?X:
?X: if you have stdarg.h, you need to support prototypes to actually use it;
?X: but if stdarg.h exists and the compiler doesn't support prototypes (for some
```

```
?X: bizarre reason), we'll fall back to varargs.h anyway so it's not so bad.
?X:
: set up the varargs testing programs
$cat > varargs.c <<EOP
#ifdef I_STDARG
#include <stdarg.h>
#endif
#ifdef I_VARARGS
#include <varargs.h>
#endif

#ifdef I_STDARG
int f(char *p, ...)
#else
int
 f(va_alist)
va_dcl
#endif
{
 va_list ap;
#ifndef I_STDARG
 char *p;
#endif
#ifdef I_STDARG
 va_start(ap,p);
#else
 va_start(ap);
 p = va_arg(ap, char *);
#endif
 va_end(ap);
}
EOP
$cat > varargs <<EOP
$startsh
if $cc -c $ccflags -D\$1 varargs.c >/dev/null 2>&1; then
 echo "true"
else
 echo "false"
fi
$rm -f varargs$_o
EOP
chmod +x varargs

: now check which varargs header should be included
echo " "
i_varhdr=''
case "$valstd" in
"$define")
```

```
 if `./varargs I_STDARG`; then
  val='stdarg.h'
 elif `./varargs I_VARARGS`; then
  val='varargs.h'
 fi
 ;;
*)
 if `./varargs I_VARARGS`; then
  val='varargs.h'
 fi
 ;;
esac
case "$val" in
")
 ./warn "I could not find the definition for va_dcl... You have problems..."
 val="$undef"; set i_stdarg; eval $setvar
 val="$undef"; set i_varargs; eval $setvar
 ;;
*)
 set i_varhdr
 eval $setvar
 case "$i_varhdr" in
 stdarg.h)
  val="$define"; set i_stdarg; eval $setvar
  val="$undef"; set i_varargs; eval $setvar
  ;;
 varargs.h)
  val="$undef"; set i_stdarg;
 eval $setvar
  val="$define"; set i_varargs; eval $setvar
  ;;
 esac
 echo "We'll include <$i_varhdr> to get va_dcl definition." >&4;;
esac
$rm -f varargs*
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_varhdr.U
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```
?RCS: $Id: d_mkfifo.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_mkfifo.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:14:17  ram
?RCS: patch36: created by ADO
?RCS:
?RCS:
?MAKE:d_mkfifo: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkfifo:
?S: This variable conditionally defines the HAS_MKFIFO symbol, which
?S: indicates to the C program that the mkfifo() routine is available.
?S:.
?C:HAS_MKFIFO :
?C: This symbol, if defined, indicates that the mkfifo
 routine is
?C: available to create FIFOs. Otherwise, mknod should be able to
?C: do it for you. However, if mkfifo is there, mknod might require
?C: super-user privileges which mkfifo will not.
?C:.
?H:#$d_mkfifo HAS_MKFIFO  /**/
?H:.
?LINT:set d_mkfifo
: see if mkfifo exists
set mkfifo d_mkfifo
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_mkfifo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_db.U,v 3.0.1.3 1995/07/25 14:10:22 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_db.U,v $
```

```
?RCS: Revision 3.0.1.3  1995/07/25  14:10:22  ram
?RCS: patch56: conditionally use const in test programs (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1995/05/12  12:14:42  ram
?RCS: patch54: extended for more intimate DB probing (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:21:50  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:i_db db_hashtype db_prefixtype \
 db_version_major
 db_version_minor db_version_patch : \
 Inhdr +cc +ccflags rm_try compiler_warning cat \
 Compile libs sed run i_stdlib
?MAKE: -pick add $@ %<
?S:i_db:
?S: This variable conditionally defines the I_DB symbol, and indicates
?S: whether a C program may include Berkeley's DB include file <db.h>.
?S:.
?S:db_hashtype:
?S: This variable contains the type of the hash structure element
?S: in the <db.h> header file.  In older versions of DB, it was
?S: int, while in newer ones it is u_int32_t.
?S:.
?S:db_prefixtype:
?S: This variable contains the type of the prefix structure element
?S: in the <db.h> header file.  In older versions of DB, it was
?S: int, while in newer ones it is size_t.
?S:.
?S:db_version_major:
?S: This variable contains the major version number of
?S: Berkeley DB found in the <db.h> header file.
?S:.
?S:db_version_minor:
?S: This variable contains the minor version number of
?S: Berkeley DB found in the <db.h> header file.
?S: For DB version 1 this is always 0.
?S:.
?S:db_version_patch:
?S: This
 variable contains the patch version number of
?S: Berkeley DB found in the <db.h> header file.
?S: For DB version 1 this is always 0.
?S:.
?C:I_DB:
?C: This symbol, if defined, indicates to the C program that it should
?C: include Berkeley's DB include file <db.h>.
?C:.
```

```
?C:DB_Prefix_t:
?C: This symbol contains the type of the prefix structure element
?C: in the <db.h> header file.  In older versions of DB, it was
?C: int, while in newer ones it is u_int32_t.
?C:.
?C:DB_Hash_t:
?C: This symbol contains the type of the prefix structure element
?C: in the <db.h> header file.  In older versions of DB, it was
?C: int, while in newer ones it is size_t.
?C:.
?C:DB_VERSION_MAJOR_CFG:
?C: This symbol, if defined, defines the major version number of
?C: Berkeley DB found in the <db.h> header when Perl was configured.
?C:.
?C:DB_VERSION_MINOR_CFG:
?C: This symbol, if defined, defines the minor version number of
?C: Berkeley DB found in the <db.h> header when Perl was configured.
?C: For
 DB version 1 this is always 0.
?C:.
?C:DB_VERSION_PATCH_CFG:
?C: This symbol, if defined, defines the patch version number of
?C: Berkeley DB found in the <db.h> header when Perl was configured.
?C: For DB version 1 this is always 0.
?C:.
?H:#$i_db I_DB  /**/
?H:#define DB_Hash_t $db_hashtype  /**/
?H:#define DB_Prefix_t $db_prefixtype  /**/
?H:#define DB_VERSION_MAJOR_CFG $db_version_major /**/
?H:#define DB_VERSION_MINOR_CFG $db_version_minor /**/
?H:#define DB_VERSION_PATCH_CFG $db_version_patch /**/
?H:.
?F:!try
?LINT:change libs
: see if this is a db.h system
set db.h i_db
eval $inhdr

case "$i_db" in
$define)
 : Check db version.
 echo " "
 echo "Checking Berkeley DB version ..." >&4
 $cat >try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
```

```
#include <stdlib.h>
#endif
#include <db.h>
int main(int argc, char *argv[])
{
#ifdef DB_VERSION_MAJOR /* DB version >= 2 */
  int Major, Minor, Patch ;
  unsigned long Version ;
  (void)db_version(&Major,
 &Minor, &Patch) ;
  if (argc == 2) {
      printf("%d %d %d %d %d %d\n",
            DB_VERSION_MAJOR, DB_VERSION_MINOR, DB_VERSION_PATCH,
            Major, Minor, Patch);
      exit(0);
  }
  printf("You have Berkeley DB Version 2 or greater.\n");

  printf("db.h is from Berkeley DB Version %d.%d.%d\n",
 DB_VERSION_MAJOR, DB_VERSION_MINOR, DB_VERSION_PATCH);
  printf("libdb is from Berkeley DB Version %d.%d.%d\n",
 Major, Minor, Patch) ;

  /* check that db.h & libdb are compatible */
  if (DB_VERSION_MAJOR != Major || DB_VERSION_MINOR != Minor || DB_VERSION_PATCH != Patch) {
 printf("db.h and libdb are incompatible.\n") ;
      exit(3);
  }

  printf("db.h and libdb are compatible.\n") ;

  Version = DB_VERSION_MAJOR * 1000000 + DB_VERSION_MINOR * 1000
 + DB_VERSION_PATCH ;

  /* needs to be >= 2.3.4 */
  if (Version < 2003004) {
  /* if (DB_VERSION_MAJOR == 2 && DB_VERSION_MINOR == 0 && DB_VERSION_PATCH < 5) { */
 printf("Perl
 needs Berkeley DB 2.3.4 or greater.\n") ;
      exit(2);
  }

  exit(0);
#else
#if defined(_DB_H_) && defined(BTREEMAGIC) && defined(HASHMAGIC)
  if (argc == 2) {
      printf("1 0 0\n");
      exit(0);
```

```
   }
   printf("You have Berkeley DB Version 1.\n");
   exit(0); /* DB version < 2: the coast is clear. */
#else
   exit(1); /* <db.h> not Berkeley DB? */
#endif
#endif
}
EOCP
 set try
 if eval $compile_ok && $run ./try; then
  echo 'Looks OK.' >&4
  set `$run ./try 1`
  db_version_major=$1
  db_version_minor=$2
  db_version_patch=$3
 else
  echo "I can't use Berkeley DB with your <db.h>.  I'll disable Berkeley DB." >&4
  i_db=$undef
  case " $libs " in
  *"-ldb "*)
   : Remove db from list of libraries to use
   echo "Removing unusable -ldb from library list" >&4
   set `echo X $libs | $sed -e 's/-ldb / /' -e 's/-ldb$//'`
   shift
   libs="$*"
   echo "libs = $libs" >&4
   ;;
  esac
 fi
 $rm_try
 ;;
esac

@if DB_Hash_t
case "$i_db" in
define)
 : Check the return
 type needed for hash
 echo " "
 echo "Checking return type needed for hash for Berkeley DB ..." >&4
 $cat >try.c <<EOCP
#include <sys/types.h>
#include <db.h>

#ifndef DB_VERSION_MAJOR
u_int32_t hash_cb (const void* ptr, size_t size)
{
```

```
 return 0;
}
HASHINFO info;
int main()
{
 info.hash = hash_cb;
}
#endif
EOCP
 if $cc $ccflags -c try.c >try.out 2>&1 ; then
  if $compiler_warning try.out >>/dev/null 2>&1 ; then
   db_hashtype='int'
  else
   db_hashtype='u_int32_t'
  fi
 else
  : XXX Maybe we should just give up here.
  db_hashtype=u_int32_t
  $cat try.out >&4
  echo "Help:  I can't seem to compile the db test program." >&4
  echo "Something's wrong, but I'll assume you use $db_hashtype." >&4
 fi
 $rm_try
 echo "Your version of Berkeley DB uses $db_hashtype for hash."
 ;;
*) db_hashtype=u_int32_t
 ;;
esac
@end
@if DB_Prefix_t
case "$i_db" in
define)
 : Check the return type needed for prefix
 echo " "
 echo "Checking return type needed for prefix for Berkeley DB ..." >&4
 cat >try.c <<EOCP
#include
 <sys/types.h>
#include <db.h>

#ifndef DB_VERSION_MAJOR
size_t prefix_cb (const DBT *key1, const DBT *key2)
{
 return 0;
}
BTREEINFO info;
int main()
{
```

```
 info.prefix = prefix_cb;
}
#endif
EOCP
 if $cc $ccflags -c try.c  >try.out 2>&1 ; then
  if $compiler_warning try.out >>/dev/null 2>&1 ; then
   db_prefixtype='int'
  else
   db_prefixtype='size_t'
  fi
 else
  db_prefixtype='size_t'
  : XXX Maybe we should just give up here.
  $cat try.out >&4
  echo "Help:  I can't seem to compile the db test program." >&4
  echo "Something's wrong, but I'll assume you use $db_prefixtype." >&4
 fi
 $rm_try
 echo "Your version of Berkeley DB uses $db_prefixtype for prefix."
 ;;
*) db_prefixtype='size_t'
 ;;
esac
@end
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_db.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sigblock.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sigblock.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:21  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sigblock: Inlibc
?MAKE: -pick add $@ %<
?S:d_sigblock:
?S: This variable conditionally defines HAS_SIGBLOCK if sigblock() is
```

```
?S: available to block signal reception.
?S:.
?C:HAS_SIGBLOCK:
?C: This symbol, if defined, indicates that the sigblock routine is
?C: available to block signal reception.
?C:.
?H:#$d_sigblock HAS_SIGBLOCK /**/
?H:.
?LINT:set
 d_sigblock
: see if sigblock exists
set sigblock d_sigblock
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sigblock.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_inetaton.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Spider Boardman
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_inetaton.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:36:35  ram
?RCS: patch61: created
?RCS:
?MAKE:d_inetaton: Inlibc
?MAKE: -pick add $@ %<
?S:d_inetaton:
?S: This variable conditionally defines the HAS_INET_ATON symbol, which
?S: indicates to the C program that the inet_aton() function is available
?S: to parse IP address "dotted-quad" strings.
?S:.
?C:HAS_INET_ATON:
?C: This symbol, if defined, indicates
 to the C program that the
?C: inet_aton() function is available to parse IP address "dotted-quad"
?C: strings.
?C:.
?H:#$d_inetaton HAS_INET_ATON  /**/
```

```
?H:.
?LINT:set d_inetaton
: check whether inet_aton exists
set inet_aton d_inetaton
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_inetaton.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_memrchr: Inlibc Hasproto d_gnulibc
?MAKE: -pick add $@ %<
?S:d_memrchr:
?S: This variable conditionally defines the HAS_MEMRCHR symbol, which
?S: indicates to the C program that the memrchr() routine is available
?S: to return a pointer to the last occurrence of a byte in a memory
?S: area (or NULL if not found).
?S:.
?C:HAS_MEMRCHR:
?C: This symbol, if defined, indicates that the memrchr routine is
?C: available to return a pointer to the last occurrence of a byte in
?C: a memory area (or NULL if not found).
?C:.
?H:#$d_memrchr HAS_MEMRCHR  /**/
?H:.
?T:d_memrchr_proto xx1 xx2 xx3 xx4
?LINT:set d_memrchr
: see if memrchr exists
: We need both a prototype in string.h and the symbol in libc.
echo " "
d_memrchr_proto="
xx1="#$d_gnulibc HAS_GNULIBC"
xx2='#if defined(HAS_GNULIBC)
 && !defined(_GNU_SOURCE)'
xx3='#   define _GNU_SOURCE'
xx4='#endif'
set d_memrchr_proto memrchr literal "$xx1" literal "$xx2" literal "$xx3" literal "$xx4" define string.h
eval $hasproto
case "$d_memrchr_proto" in
   define) # see if memrchr exists
 set memrchr d_memrchr
 eval $inlibc
 ;;
   *)  val=$undef
```

```
 set d_memrchr
 eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_memrchr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_chroot.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_chroot.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:17  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_chroot: Inlibc
?MAKE: -pick add $@ %<
?S:d_chroot:
?S: This variable conditionally defines the HAS_CHROOT symbol, which
?S: indicates to the C program that the chroot() routine is available.
?S:.
?C:HAS_CHROOT :
?C: This symbol, if defined, indicates that the chroot routine
 is
?C: available.
?C:.
?H:#$d_chroot HAS_CHROOT  /**/
?H:.
?LINT:set d_chroot
: see if chroot exists
set chroot d_chroot
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_chroot.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_drem.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_drem.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:12:14  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_drem: Inlibc
?MAKE: -pick add $@ %<
?S:d_drem:
?S: This variable conditionally defines the HAS_DREM symbol, which
?S: indicates to the C program that the drem() routine is available.
?S:.
?C:HAS_DREM :
?C: This symbol, if defined, indicates that the drem routine is
?C: available.
  This routine is roughly the same as fmod, i.e. it
?C: computes the remainder r=x-n*y, where n=rint(x/y), whereas fmod
?C: uses n=trunc(x/y).
?C:.
?H:#$d_drem HAS_DREM  /**/
?H:.
?LINT:set d_drem
: see if drem exists
set drem d_drem
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_drem.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sitearch.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:21:30  ram
?RCS: patch61: created
?RCS:
?MAKE:sitearch sitearchexp installsitearch: afs cat Getfile \
 Oldconfig Prefixit prefix test archname sitelib
?MAKE: -pick add $@ %<
?Y:TOP
?S:sitearch:
?S: This variable contains the eventual value of the SITEARCH symbol,
?S: which is the name of the private library for this package.  It may
?S: have a ~ on the front. It is up to the makefile to eventually create
?S: this
 directory while performing installation (with ~ substitution).
?S:.
?S:sitearchexp:
?S: This variable is the ~name expanded version of sitearch, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?S:installsitearch:
?S: This variable is really the same as sitearchexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?C:SITEARCH:
?C: This symbol contains the name of the private library for this package.
?C: The library is private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.  The program
?C: should be prepared to do ~ expansion.
?C: The standard distribution will put nothing in this directory.
?C: Individual sites may place their own extensions and modules in
?C: this directory.
?C:.
?C:SITEARCH_EXP:
?C: This symbol contains the ~name expanded version of SITEARCH, to be used
?C: in programs that are not prepared to deal
 with ~ expansion at run-time.
?C:.
?H:#define SITEARCH "$sitearch"  /**/
?H:#define SITEARCH_EXP "$sitearchexp"  /**/
?H:.
?T:xxx
```

```
: determine where site specific architecture-dependent libraries go.
xxx=`echo $sitelib/$archname | sed 's!^$prefix!!'`
: xxx is usually lib/site_perl/archname.
set sitearch sitearch none
eval $prefixit
case "$sitearch" in
") dflt="$sitelib/$archname" ;;
*) dflt="$sitearch" ;;
esac
$cat <<EOM

The installation process will also create a directory for
architecture-dependent site-specific extensions and modules.

EOM
fn=nd~+
rp='Pathname for the site-specific architecture-dependent library files?'
. ./getfile
if $test "X$sitearchexp" != "X$ansexp"; then
 installsitearch="
fi
sitearch="$ans"
sitearchexp="$ansexp"
if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
private files reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case
 "$installsitearch" in
 ") dflt=`echo $sitearchexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installsitearch";;
 esac
 fn=de~
 rp='Where will private files be installed?'
 . ./getfile
 installsitearch="$ans"
else
 installsitearch="$sitearchexp"
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/sitearch.U

No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_atanh: Inlibc
?MAKE: -pick add $@ %<
?S:d_atanh:
?S: This variable conditionally defines the HAS_ATANH symbol, which
?S: indicates to the C program that the atanh() routine is available.
?S:.
?C:HAS_ATANH:
?C: This symbol, if defined, indicates that the atanh routine is
?C: available to do the inverse hyperbolic tangent function.
?C:.
?H:#$d_atanh HAS_ATANH  /**/
?H:.
?LINT:set d_atanh
: see if atanh exists
set atanh d_atanh
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_atanh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_setitimer: Inlibc
?MAKE: -pick add $@ %<
?S:d_setitimer:
?S: This variable conditionally defines the HAS_SETITIMER symbol, which
?S: indicates to the C program that the setitimer() routine is available.
?S:.
?C:HAS_SETITIMER:
?C: This symbol, if defined, indicates that the setitimer routine is
?C: available to set interval timers.
?C:.
?H:#$d_setitimer HAS_SETITIMER  /**/
?H:.
?LINT:set d_setitimer
: see if setitimer exists
```

```
set setitimer d_setitimer
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_setitimer.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:siteman3dir siteman3direxp installsiteman3dir: Getfile \
 Setprefixvar prefix siteprefix man3dir sed
?MAKE: -pick add $@ %<
?Y:TOP
?D:siteman3dir="
?S:siteman3dir:
?S: This variable contains the name of the directory in which site-specific
?S: library man source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S: The standard distribution will put nothing in this directory.
?S: After
 perl has been installed, users may install their own local
?S: man3 pages in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:siteman3direxp="
?S:siteman3direxp:
?S: This variable is the same as the siteman3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsiteman3dir="
?S:installsiteman3dir:
?S: This variable is really the same as siteman3direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man3direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
```

```
?LINT:set installsiteman3dir
?LINT:set siteman3dir
?LINT:set siteman3direxp
: determine where add-on library man pages go
case "$siteman3dir" in
") dflt=`echo $man3dir | $sed "s#^$prefix#$siteprefix#"` ;;
*) dflt=$siteman3dir ;;
esac
case "$dflt" in
"|' ') dflt=none ;;
esac
fn=dn+~
rp='Pathname
 where the site-specific library manual pages should be installed?'
. ./getfile
prefixvar=siteman3dir
. ./setprefixvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/siteman3dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strchr.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strchr.U,v $
?RCS: Revision 3.0.1.2  1993/10/16  13:49:20  ram
?RCS: patch12: added support for HAS_INDEX
?RCS: patch12: added magic for index() and rindex()
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:05:26  ram
?RCS: patch10: now only defines HAS_STRCHR, no macro remap of index (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:32  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strchr d_index: contains strings Setvar Myread Oldconfig
 Csym
?MAKE: -pick add $@ %<
?S:d_strchr:
```

```
?S: This variable conditionally defines HAS_STRCHR if strchr() and
?S: strrchr() are available for string searching.
?S:.
?S:d_index:
?S: This variable conditionally defines HAS_INDEX if index() and
?S: rindex() are available for string searching.
?S:.
?C:HAS_STRCHR:
?C: This symbol is defined to indicate that the strchr()/strrchr()
?C: functions are available for string searching. If not, try the
?C: index()/rindex() pair.
?C:.
?C:HAS_INDEX:
?C: This symbol is defined to indicate that the index()/rindex()
?C: functions are available for string searching.
?C:.
?H:#$d_strchr HAS_STRCHR /**/
?H:#$d_index HAS_INDEX /**/
?H:.
?M:index: HAS_INDEX
?M:#ifndef HAS_INDEX
?M:#ifndef index
?M:#define index strchr
?M:#endif
?M:#endif
?M:.
?M:rindex: HAS_INDEX
?M:#ifndef HAS_INDEX
?M:#ifndef rindex
?M:#define rindex strrchr
?M:#endif
?M:#endif
?M:.
?T:vali
?LINT:set d_strchr d_index
: index or strchr
echo " "
if set index val -f; eval $csym; $val; then
 if
 set strchr val -f d_strchr; eval $csym; $val; then
  if $contains strchr "$strings" >/dev/null 2>&1 ; then
?X: has index, strchr, and strchr in string header
   val="$define"
   vali="$undef"
   echo "strchr() found." >&4
  else
?X: has index, strchr, and no strchr in string header
   val="$undef"
```

```
   vali="$define"
   echo "index() found." >&4
  fi
 else
?X: has only index, no strchr, string header is a moot point
  val="$undef"
  vali="$define"
  echo "index() found." >&4
 fi
else
 if set strchr val -f d_strchr; eval $csym; $val; then
  val="$define"
  vali="$undef"
  echo "strchr() found." >&4
 else
  echo "No index() or strchr() found!" >&4
  val="$undef"
  vali="$undef"
 fi
fi
set d_strchr; eval $setvar
val="$vali"
set d_index; eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strchr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: install.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: install.U,v $
?RCS: Revision 3.0.1.2  1995/09/25  09:16:37  ram
?RCS: patch59: all possible install programs are now looked for
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:30:41  ram
?RCS: patch45: created
?RCS:
?MAKE:install installdir: Loc Oldconfig Getfile cat test startsh rm +cc \
 eunicefix package contains mkdir echo n c
```

```
?MAKE: -pick add $@ %<
?S:install:
?S: This variable contains the name of an install program that can accept
?S: BSD-style arguments.
 It must correctly support -c, -s, and -m at least.
?S: It is a fully qualified pathname when found. If you have a local
?S: install.SH file at the root directory of your package, it is assumed to
?S: be the default script emulating a BSD install and the variable will be
?S: set to ./install. Otherwise, it is set to plain 'install', relying on
?S: the user's PATH to perform miracles.
?S:.
?S:installdir:
?S: This variable contains the name of a program that can install nested
?S: directories. Often set to 'mkdir -p', it can also be 'install -d' if
?S: you have such a beast and lack the former. If you have an install.SH
?S: file at the root directory of your package, it will be used in last
?S: resort, setting the variable to './install -d'. Otherwise, it is set to
?S: plain 'mkdir', and cross your fingers!
?S:.
?T:dir file tryit prog creatdir either
?F:!tryinst
: locate a BSD compatible install program
echo " "
echo "Looking for a BSD-compatible install program..." >&4
@if installdir
creatdir="
@end
case
 "$install" in
")
 tryit="
 for dir in $pth; do
  for file in ginstall installbsd scoinst install; do
   if $test -f $dir/$file; then
    tryit="$tryit $dir/$file"
   fi
  done
 done
 $cat >try.c <<EOC
int main()
{
 printf("OK\n");
 exit(0);
}
EOC
 if $cc -o try try.c >/dev/null 2>&1; then
  cp try try.ns
  strip try >/dev/null 2>&1
```

```
 else
  echo "(I can't seem to compile a trivial C program -- bypassing.)"
  echo "try" >try
  cp try try.ns
 fi
 $cat >tryinst <<EOS
$startsh
$rm -rf foo d
@if installdir
\$1 -d foo/bar
@end
$mkdir d
\$1 -c -m 764 try.ns d
\$1 -c -s -m 642 try.ns d/try
EOS
 chmod +x tryinst
 $eunicefix tryinst
 dflt=''
 either=''
 for prog in $tryit; do
  $echo $n "Checking $prog... $c"
  ./tryinst $prog >/dev/null 2>&1
@if installdir
  if $test -d foo/bar; then
   creatdir="$prog -d"
  fi
@end
  (ls -l d/try >try.ls; ls -l d/try.ns >tryno.ls) 2>/dev/null
  if (cmp -s d/try try && cmp -s d/try.ns try.ns && \
   $contains 'rwxrw-r--' tryno.ls &&
 \
   $contains 'rw-r---w-' try.ls) >/dev/null 2>&1
  then
   dflt="$prog"
   echo "ok, that will do."
   break
  fi
  echo "not good$either."
  either=' either'
  $rm -f try*.ls
 done
 $rm -rf foo d tryinst try try*.ls try.*
 case "$dflt" in
 '')
@if {test -f ../install.SH}
  echo "Hopefully, $package comes with its own install script!"
  dflt='./install'
@else
```

```
  dflt='install'
@end
  ;;
 esac
 ;;
*) dflt="$install";;
esac
$cat <<EOM

I will be requiring a BSD-compatible install program (one that allows
options like -s to strip executables or -m to specify a file mode) to
install $package.

If the question below contains a fully qualified default path, then it
is probably ok. If it is an unqualified name such as 'install', then it
means I was unable to find out a good install program I could use. If
@if {test -f ../install.SH}
you know of one, please tell me about it. If the default is './install',
then I shall be using the install script supplied with $package.
@else
you know of one,
 please tell me about it.
@end

EOM
@if {test -f ../install.SH}
fn='/fe~(install,./install)'
@else
fn='/fe~(install)'
@end
rp='Which install program shall I use?'
. ./getfile
install="$ans"

@if installdir
: how can we create nested directories?
echo " "
echo "Ok, let's see how we can create nested directories..." >&4
case "$installdir" in
")
?X: First time, maybe we already found out a working one in $creatdir above...
?X: Prefer "mkdir -p" because of bugs in GNU install when not running as root
 $mkdir -p foo/bar >/dev/null 2>&1
 if $test -d foo/bar; then
  echo "Great, we can build them using 'mkdir -p'."
  creatdir='mkdir -p'
 else
  case "$creatdir" in
```

```
  ")
   if eval "$install -d foo/bar"; $test -d foo/bar; then
    creatdir="install -d"
    echo "It looks like '$creatdir' will do it for us."
   fi
   ;;
  *)
   eval "$creatdir foo/bar" >/dev/null 2>&1
   if $test -d foo/bar; then
    echo "Ah! We can use '$creatdir' to do just that."
   else
    creatdir="
   fi
   ;;
  esac
 fi
 $rm
 -rf foo
 case "$creatdir" in
 ")
  echo "Heck! Another ancient system lacking the comfort of modern ones!"
@if {test -f ../install.SH}
  echo "You can thank $package for bringing you its own install script!"
  installdir='./install -d'
@else
  echo "We have no choice but to use plain old 'mkdir' -- wish me luck!"
  installdir=mkdir
@end
  ;;
 *) installdir="$creatdir";;
 esac
 ;;
*) echo "As you already told me, '$installdir' should work.";;
esac

@end
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/install.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Loc_sed.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?X: This is used in perl.c.
?MAKE:full_sed: sed
?MAKE: -pick add $@ %<
?S:full_sed:
?S: This variable contains the full pathname to 'sed', whether or
?S: not the user has specified 'portability'.  This is only used
?S: in the compiled C program, and we assume that all systems which
?S: can share this executable will have the same full pathname to
?S: 'sed.'
?S:.
?X: Yes, I know about the C symbol PORTABLE, but I think sed
?X: is
 unlikely to move, and I'm too lazy to add all the
?X: #ifdef PORTABLE sections to the perl source.
?X:
?C:LOC_SED:
?C: This symbol holds the complete pathname to the sed program.
?C:.
?H:#define LOC_SED  "$full_sed" /**/
?H:.
: Store the full pathname to the sed program for use in the C program
full_sed=$sed
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Loc_sed.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorscript.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorscript.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:d_vendorscript vendorscript vendorscriptexp installvendorscript: Getfile \
```

```
 vendorbin cat Setprefixvar Oldconfig Prefixit test vendorprefix
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorscript:
?S: This variable contains the eventual value of the VENDORSCRIPT symbol.
?S: It may have a ~ on the front.
?S: The standard distribution will put nothing in this
 directory.
?S: Vendors who distribute perl may wish to place additional
?S: executable scripts in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorscriptexp:
?S: This variable is the ~name expanded version of vendorscript, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorscript="
?S:installvendorscript:
?S: This variable is really the same as vendorscriptexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?S:d_vendorscript:
?S: This variable conditionally defines PERL_VENDORSCRIPT.
?S:.
?C:PERL_VENDORSCRIPT:
?C: If defined, this symbol contains the name of a directory
?C: for holding vendor-supplied executable scripts.
?C: It may have a ~ on the front.
?C: The standard distribution will put nothing in this directory.
?C: Vendors who distribute perl may wish to place additional
?C: executable
 scripts in this directory with
?C:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?C: or equivalent.  See INSTALL for details.
?C:.
?C:PERL_VENDORSCRIPT_EXP:
?C: This symbol contains the ~name expanded version of VENDORSCRIPT, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#$d_vendorscript PERL_VENDORSCRIPT "$vendorscript"  /**/
?H:#$d_vendorscript PERL_VENDORSCRIPT_EXP "$vendorscriptexp"  /**/
?H:.
?LINT:change prefixvar
?LINT:set installvendorscript
: Set the vendorscript variables
case "$vendorprefix" in
```

```
") d_vendorscript="$undef"
 vendorscript="
 vendorscriptexp="
 ;;
*) d_vendorscript="$define"
 : determine where vendor-supplied scripts go.
 case "$vendorscript" in
 ") dflt=$vendorprefix/script
  $test -d $dflt || dflt=$vendorbin ;;
 *)  dflt="$vendorscript" ;;
 esac
 $cat <<EOM

The installation process will create a directory for
vendor-supplied scripts.

EOM
 fn=d~+
 rp='Pathname for the vendor-supplied scripts directory?'
 . ./getfile
 vendorscript="$ans"
 vendorscriptexp="$ansexp"
 ;;
esac
prefixvar=vendorscript
.
 ./installprefix
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/vendorscript.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_utime.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_utime.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_utime: Inhdr
```

```
?MAKE: -pick add $@ %<
?S:i_utime:
?S: This variable conditionally defines the I_UTIME symbol, and indicates
?S: whether a C program should include <utime.h>.
?S:.
?C:I_UTIME:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <utime.h>.
?C:.
?H:#$i_utime I_UTIME  /**/
?H:.
?LINT:set i_utime
:
 see if this is an utime system
set utime.h i_utime
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_utime.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getservent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getservent_r getservent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getservent_r:
?S: This variable conditionally defines the HAS_GETSERVENT_R symbol,
?S: which indicates to the C program that the getservent_r()
?S: routine is available.
?S:.
?S:getservent_r_proto:
?S: This variable encodes the prototype of getservent_r.
?S: It is zero if d_getservent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getservent_r
?S: is defined.
?S:.
?C:HAS_GETSERVENT_R:
?C: This symbol, if defined, indicates that the getservent_r routine
?C: is
```

```
 available to getservent re-entrantly.
?C:.
?C:GETSERVENT_R_PROTO:
?C: This symbol encodes the prototype of getservent_r.
?C: It is zero if d_getservent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getservent_r
?C: is defined.
?C:.
?H:#$d_getservent_r HAS_GETSERVENT_R /**/
?H:#define GETSERVENT_R_PROTO $getservent_r_proto /**/
?H:.
?T:try hdrs d_getservent_r_proto
: see if getservent_r exists
set getservent_r d_getservent_r
eval $inlibc
case "$d_getservent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getservent_r_proto:$usethreads" in
 ":define") d_getservent_r_proto=define
  set d_getservent_r_proto getservent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getservent_r_proto" in
 define)
 case "$getservent_r_proto" in
 "|0) try='int getservent_r(struct servent*, char*, size_t, struct servent**);'
 ./protochk "$extern_C $try" $hdrs && getservent_r_proto=I_SBWR ;;
 esac
 case "$getservent_r_proto"
 in
 "|0) try='int getservent_r(struct servent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getservent_r_proto=I_SBI ;;
 esac
 case "$getservent_r_proto" in
 "|0) try='struct servent* getservent_r(struct servent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getservent_r_proto=S_SBI ;;
 esac
 case "$getservent_r_proto" in
 "|0) try='int getservent_r(struct servent*, struct servent_data*);'
 ./protochk "$extern_C $try" $hdrs && getservent_r_proto=I_SD ;;
 esac
 case "$getservent_r_proto" in
 "|0) d_getservent_r=undef
  getservent_r_proto=0
  echo "Disabling getservent_r, cannot determine prototype." >&4 ;;
 * ) case "$getservent_r_proto" in
```

```
  REENTRANT_PROTO*) ;;
  *) getservent_r_proto="REENTRANT_PROTO_$getservent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getservent_r has no prototype, not using it." >&4 ;;
  esac
  d_getservent_r=undef
  getservent_r_proto=0
  ;;
 esac
 ;;
*) getservent_r_proto=0
 ;;
esac
```

Found
 in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getservent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setruid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setruid.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setruid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setruid:
?S: This variable conditionally defines the HAS_SETRUID symbol, which
?S: indicates to the C program that the setruid() routine is available
?S: to change the real uid of the current program.
?S:.
?C:HAS_SETRUID (SETRUID):
?C: This symbol, if defined, indicates that the setruid
```

```
 routine is available
?C: to change the real uid of the current program.
?C:.
?H:#$d_setruid HAS_SETRUID  /**/
?H:.
?LINT:set d_setruid
: see if setruid exists
set setruid d_setruid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setruid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_tcgtpgrp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_tcgtpgrp.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:12:08  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_tcgetpgrp: Inlibc
?MAKE: -pick add $@ %<
?S:d_tcgetpgrp:
?S: This variable conditionally defines the HAS_TCGETPGRP symbol, which
?S: indicates to the C program that the tcgetpgrp() routine is available.
?S: to get foreground process group ID.
?S:.
?C:HAS_TCGETPGRP
 :
?C: This symbol, if defined, indicates that the tcgetpgrp routine is
?C: available to get foreground process group ID.
?C:.
?H:#$d_tcgetpgrp HAS_TCGETPGRP  /**/
?H:.
?LINT:set d_tcgetpgrp
: see if tcgetpgrp exists
set tcgetpgrp d_tcgetpgrp
```

```
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_tcgtpgrp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_cmsghdr_s: Hasstruct i_systypes d_socket i_sysuio Setvar
?MAKE: -pick add $@ %<
?S:d_cmsghdr_s:
?S: This variable conditionally defines the HAS_STRUCT_CMSGHDR symbol,
?S: which indicates that the struct cmsghdr is supported.
?S:.
?C:HAS_STRUCT_CMSGHDR:
?C: This symbol, if defined, indicates that the struct cmsghdr
?C: is supported.
?C:.
?H:#$d_cmsghdr_s HAS_STRUCT_CMSGHDR /**/
?H:.
?LINT:set d_cmsghdr_s
: Check for cmsghdr support
echo " "
echo "Checking to see if your system supports struct cmsghdr..." >&4
set d_cmsghdr_s cmsghdr $i_systypes sys/types.h $d_socket sys/socket.h $i_sysuio sys/uio.h
eval $hasstruct
case "$d_cmsghdr_s" in
"$define")      echo "Yes, it does."   ;;
*)              echo
 "No, it doesn't." ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_cmsghdr_s.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysvfs.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysvfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysvfs:
?S: This variable conditionally defines the I_SYSVFS symbol,
?S: and indicates whether a C program should include <sys/vfs.h>.
?S:.
?C:I_SYS_VFS:
?C: This symbol, if defined, indicates that <sys/vfs.h> exists and
?C: should be included.
?C:.
?H:#$i_sysvfs I_SYS_VFS  /**/
?H:.
?LINT:set i_sysvfs
: see if this is a sys/vfs.h system
set sys/vfs.h i_sysvfs
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_sysvfs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_safebcpy.U,v 3.0.1.4 1997/02/28 15:40:58 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_safebcpy.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  15:40:58  ram
?RCS: patch61: improved overlapping copy check
?RCS: patch61: comfort them if they have memmove
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.3  1995/07/25  13:58:40  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.2  1995/01/11  15:29:23  ram
?RCS: patch45: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS:
```

```
 Revision 3.0.1.1  1994/05/06  14:49:03  ram
?RCS: patch23: ensure string is not optimized in read-only memory (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_safebcpy: cat d_bcopy Compile rm_try run \
 d_memmove i_memory i_stdlib i_string i_unistd Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_safebcpy:
?S: This variable conditionally defines the HAS_SAFE_BCOPY symbol if
?S: the bcopy() routine can do overlapping copies.  Normally, you
?S: should probably use memmove().
?S:.
?C:HAS_SAFE_BCOPY (SAFE_BCOPY):
?C: This symbol, if defined, indicates that the bcopy routine is available
?C: to copy potentially overlapping memory blocks. Normally, you should
?C: probably use memmove() or memcpy(). If neither is defined, roll your
?C: own version.
?C:.
?H:#$d_safebcpy HAS_SAFE_BCOPY /**/
?H:.
?F:!try
?LINT: set d_safebcpy
: can bcopy handle overlapping blocks?
echo " "
?X: assume the worst.
val="$undef"
case "$d_memmove" in
"$define")
 echo "I'll use memmove() instead of bcopy() for overlapping copies." ;;
*) case "$d_bcopy" in
 "$define")
  echo "Checking to see if bcopy() can do overlapping copies..." >&4
  $cat >try.c <<EOCP
#$i_memory I_MEMORY
#$i_stdlib I_STDLIB
#$i_string I_STRING
#$i_unistd I_UNISTD
EOCP
 $cat >>try.c <<'EOCP'
#include <stdio.h>
#ifdef I_MEMORY
#  include <memory.h>
#endif
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
```

```
#ifdef I_STRING
#  include <string.h>
#else
#  include <strings.h>
#endif
#ifdef I_UNISTD
#  include <unistd.h>  /* Needed for NetBSD */
#endif
int main()
{
char buf[128], abc[128];
char *b;
int len;
int off;
int align;

/* Copy "abcde..." string to char abc[] so that gcc doesn't
  try to store the string in read-only memory. */
bcopy("abcdefghijklmnopqrstuvwxyz0123456789", abc, 36);

for (align = 7; align >= 0; align--) {
 for (len = 36; len; len--) {
  b = buf+align;
  bcopy(abc, b, len);
  for (off = 1; off <= len; off++) {
   bcopy(b, b+off, len);
   bcopy(b+off,
 b, len);
   if (bcmp(b, abc, len))
    exit(1);
  }
 }
}
exit(0);
}
EOCP
  set try
  if eval $compile_ok; then
   if $run ./try 2>/dev/null; then
    echo "Yes, it can."
    val="$define"
   else
    echo "It can't, sorry."
   fi
  else
   echo "(I can't compile the test program, so we'll assume not...)"
  fi
  ;;
```

```
 esac
 $rm_try
 ;;
esac
set d_safebcpy
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_safebcpy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_mkdir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_mkdir.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:37  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_mkdir: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkdir:
?S: This variable conditionally defines the HAS_MKDIR symbol, which
?S: indicates to the C program that the mkdir() routine is available
?S: to create directories..
?S:.
?C:HAS_MKDIR (MKDIR):
?C: This symbol, if defined, indicates that the mkdir routine is available
?C: to create directories.
  Otherwise you should fork off a new process to
?C: exec /bin/mkdir.
?C:.
?H:#$d_mkdir HAS_MKDIR  /**/
?H:.
?LINT:set d_mkdir
: see if mkdir exists
set mkdir d_mkdir
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/dist/U/d_mkdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getfsstat : Inlibc
?MAKE: -pick add $@ %<
?S:d_getfsstat:
?S: This variable conditionally defines the HAS_GETFSSTAT symbol, which
?S: indicates to the C program that the getfsstat() routine is available.
?S:.
?C:HAS_GETFSSTAT:
?C: This symbol, if defined, indicates that the getfsstat routine is
?C: available to stat filesystems in bulk.
?C:.
?H:#$d_getfsstat HAS_GETFSSTAT  /**/
?H:.
?LINT:set d_getfsstat
: see if getfsstat exists
set getfsstat d_getfsstat
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_getfsstat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_shmctl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_shmctl.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:18  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_shmctl: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_shmctl:
?S: This variable conditionally defines the HAS_SHMCTL symbol, which
?S: indicates to the C program that the shmctl() routine is available.
?S:.
?C:HAS_SHMCTL:
?C: This symbol, if defined, indicates that the shmctl() routine is
?C: available to perform shared memory control operations.
?C:.
?H:#$d_shmctl
 HAS_SHMCTL  /**/
?H:.
?LINT:set d_shmctl
: see if shmctl exists
set shmctl d_shmctl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_shmctl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: uidtype.U,v $
?RCS: Revision 3.0.1.3  1994/08/29  16:33:25  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20  07:09:36  ram
?RCS: patch30: comment for uidtype referred to the obsoleted symbol
?RCS:
?RCS: Revision 3.0.1.1  1994/05/13  15:28:27  ram
?RCS: patch27: made conform to its gidtype.U companion
?RCS: patch27: question now explicitly mentions getuid()
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:56  ram
?RCS: Baseline for dist
 3.0 netwide release.
?RCS:
?MAKE:uidtype: Myread Typedef Findhdr
?MAKE: -pick add $@ %<
```

```
?S:uidtype:
?S: This variable defines Uid_t to be something like uid_t, int,
?S: ushort, or whatever type is used to declare user ids in the kernel.
?S:.
?C:Uid_t (UIDTYPE):
?C: This symbol holds the type used to declare user ids in the kernel.
?C: It can be int, ushort, uid_t, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Uid_t $uidtype  /* UID type */
?H:.
?T:xxx
: see what type uids are declared as in the kernel
set uid_t uidtype xxx stdio.h sys/types.h
eval $typedef
case "$uidtype" in
xxx)
 xxx=`./findhdr sys/user.h`
 set `grep '_ruid;' "$xxx" 2>/dev/null` unsigned short
 case $1 in
 unsigned) dflt="$1 $2" ;;
 *) dflt="$1" ;;
 esac
 ;;
*) dflt="$uidtype";;
esac
echo " "
rp="What is the type for user ids returned by getuid()?"
. ./myread
uidtype="$ans"
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/uidtype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getpagsz.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:13:10  ram
```

```
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getpagsz pagesize: Oldconfig Myread Inlibc cat contains +cc +ccflags \
 libs rm Findhdr
?MAKE: -pick add $@ %<
?S:d_getpagsz:
?S: This variable conditionally defines HAS_GETPAGESIZE if getpagesize()
?S: is available to get the system page size.
?S:.
?S:pagesize (pagsize):
?S: This
 variable holds the size in bytes of a system page.
?S:.
?C:HAS_GETPAGESIZE (GETPAGESIZE):
?C: This symbol, if defined, indicates that the getpagesize system call
?C: is available to get system page size, which is the granularity of
?C: many memory management calls.
?C:.
?X: Don't name it PAGESIZE, this is sometimes used by <sys/param.h>
?C:PAGESIZE_VALUE (PAGSIZE):
?C: This symbol holds the size in bytes of a system page (obtained via
?C: the getpagesize() system call at configuration time or asked to the
?C: user if the system call is not available).
?C:.
?H:#$d_getpagsz HAS_GETPAGESIZE  /**/
?H:#define PAGESIZE_VALUE $pagesize /* System page size, in bytes */
?H:.
?F:!page
?T:guess
?LINT:set d_getpagsz
: see if getpagesize exists
set getpagesize d_getpagsz
eval $inlibc

@if pagesize || PAGESIZE_VALUE
: determine the system page size
echo " "
guess=' (OK to guess)'
case "$pagesize" in
")
 $cat >page.c <<EOP
extern int getpagesize();
int main()
{
 printf("%d\n", getpagesize());
```

```
}
EOP
 echo
 "Computing the granularity of memory management calls..." >&4
 dflt='4096'
 case "$d_getpagsz" in
 "$define")
  if $cc $ccflags -o page page.c $libs >/dev/null 2>&1; then
   dflt=`./page`
   guess=''
  else
   echo "(I can't seem to compile the test program--guessing)"
  fi
  ;;
 *)
  if $cc $ccflags -o page page.c $libs -lPW >/dev/null 2>&1; then
   dflt=`./page`
   guess=''
   echo "(For your eyes only: I used the getpagesize() from -lPW.)"
  else
   if $contains PAGESIZE `./findhdr sys/param.h` >/dev/null 2>&1; then
    $cat >page.c <<EOP
#include <sys/param.h>
int main()
{
 printf("%d\n", PAGESIZE);
}
EOP
    if $cc $ccflags -o page page.c $libs >/dev/null 2>&1; then
     dflt=`./page`
     guess=''
     echo "(Using value of PAGESIZE found in <sys/param.h>.)"
    fi
   fi
  fi
  ;;
 esac
 ;;
*) dflt="$pagesize"; guess="";;
esac
rp="What is the system page size, in bytes$guess?"
. ./myread
pagesize=$ans
$rm -f page.c page

@end
```

Found in path(s):

* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getpagsz.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Warn_v7EXT.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Warn_v7EXT.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:01:42  ram
?RCS: patch36: call ./v7 explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit issues warnings to V7 sites that they are living dangerously.
?X: This unit needs to get mentioned in End.U to get included.
?X:
?MAKE:Warn_v7EXT: package Guess
?MAKE: -pick add $@ %<
: Warnings
if ./v7;
 then
 cat <<EOM

NOTE: the V7 compiler may ignore some #undefs that $package uses.  If so,
you may get messages about redefining EXT.  Some V7 compilers also have
difficulties with #defines near buffer boundaries, so beware.  You may have
to play with the spacing in some .h files, believe it or not.
EOM
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Warn_v7EXT.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2016-2016, H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_gai_strerror: Compile cat rm_try run Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_gai_strerror:
?S: This variable conditionally defines the HAS_GAI_STRERROR symbol
?S: if the gai_strerror() routine is available and can be used to
?S: translate error codes returned by getaddrinfo() into human
?S: readable strings.
?S:.
?C:HAS_GAI_STRERROR:
?C: This symbol, if defined, indicates that the gai_strerror routine
?C: is available to translate error codes returned by getaddrinfo()
?C: into human readable strings.
?C:.
?H:#$d_gai_strerror
 HAS_GAI_STRERROR /**/
?H:.
?F:!try
?LINT: set d_gai_strerror
: look for gai_strerror
echo " "
$cat >try.c <<'EOCP'
#include <sys/types.h>
#include <sys/socket.h>
#include <netdb.h>
int main ()
{
   return (gai_strerror (0) ? 0 : 1);
   }
EOCP
set try
?X: if $cc $ccflags $ldflags -o try try.c $libs >/dev/null 2>&1 ; then
val="$undef"
if eval $compile; then
   `$run ./try`
   case "$?" in
 0)  echo "A working gai_strerror() found." >&4
     val="$define" ;;
 *)  echo "gai_strerror() found, but it doesn't work" >&4
     ;;
 esac
else
   echo "gai_strerror() NOT found." >&4
   fi
set d_gai_strerror
```

```
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_gai_strerror.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_execinfo.U 34 2010-11-27 11:55:39Z rmanfredi $
?RCS:
?RCS: Copyright (c) 2011, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:i_execinfo: Inhdr
?MAKE: -pick add $@ %<
?S:i_execinfo:
?S: This variable conditionally defines the I_EXECINFO symbol, and indicates
?S: whether a C program may include <execinfo.h>, for backtrace() support.
?S:.
?C:I_EXECINFO:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <execinfo.h> for backtrace() support.
?C:.
?H:#$i_execinfo I_EXECINFO  /**/
?H:.
?LINT:set i_execinfo
: see if this is an execinfo.h system
set execinfo.h i_execinfo
eval
 $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_execinfo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_limits.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_limits.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:20  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_limits: Inhdr
?MAKE: -pick add $@ %<
?S:i_limits:
?S: This variable conditionally defines the I_LIMITS symbol, and indicates
?S: whether a C program may include <limits.h> to get symbols like WORD_BIT
?S: and friends.
?S:.
?C:I_LIMITS:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <limits.h> to
 get definition of symbols like WORD_BIT or
?C: LONG_MAX, i.e. machine dependant limitations.
?C:.
?H:#$i_limits I_LIMITS  /**/
?H:.
?LINT:set i_limits
: see if this is a limits.h system
set limits.h i_limits
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_limits.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Instruct.U,v 3.0.1.3 1997/02/28 15:02:55 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Instruct.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:02:55  ram
?RCS: patch61: logname / whoami sequence rewritten to use case
?RCS:
?RCS: Revision 3.0.1.2  1995/02/15  14:11:34  ram
?RCS: patch51: author name now appears at the end of the paragraph (WED)
```

```
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:12:05  ram
?RCS: patch45: now documents the & escape to turn -d on at the read prompt
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:04  ram
?RCS: Baseline for
 dist 3.0 netwide release.
?RCS:
?X:
?X: This unit spew out the directions that we want everyone to read.  I try to
?X: keep the first "pagefull" much less than a page since they don't know it
?X: isn't going to go shooting off the top of the screen, and we don't want
?X: to panic them yet.
?X:
?MAKE:Instruct: Myread Configdir Devel contains
?MAKE: -pick wipe $@ %<
?T:user needman firsttime
: general instructions
needman=true
firsttime=true
user=`(logname) 2>/dev/null`
case "$user" in
") user=`whoami 2>&1`;;
esac
if $contains "^$user\$" ../.config/instruct >/dev/null 2>&1; then
 firsttime=false
 echo " "
 rp='Would you like to see the instructions?'
 dflt=n
 . ./myread
 case "$ans" in
 [yY]*) ;;
 *) needman=false;;
 esac
fi
if $needman; then
 cat <<EOH

This installation shell script will examine your system and ask you questions
to determine how the <PACKAGENAME> package should be installed. If you get
stuck on a question, you may use a ! shell escape to start a subshell or
execute a
 command.  Many of the questions will have default answers in square
brackets; typing carriage return will give you the default.

On some of the questions which ask for file or directory names you are allowed
to use the ~name construct to specify the login directory belonging to "name",
even if you don't have a shell which knows about that.  Questions where this is
```

```
allowed will be marked "(~name ok)".

EOH
 rp=''
 dflt='Type carriage return to continue'
 . ./myread
 cat <<'EOH'

The prompter used in this script allows you to use shell variables and
backticks in your answers.  You may use $1, $2, etc...  to refer to the words
in the default answer, as if the default line was a set of arguments given to a
script shell.  This means you may also use $* to repeat the whole default line,
so you do not have to re-type everything to add something to the default.

Every time there is a substitution, you will have to confirm.  If there is an
error (e.g. an unmatched backtick), the default answer
 will remain unchanged
and you will be prompted again.

If you are in a hurry, you may run 'Configure -d'.  This will bypass nearly all
the questions and use the computed defaults (or the previous answers if there
was already a config.sh file). Type 'Configure -h' for a list of options.
You may also start interactively and then answer '& -d' at any prompt to turn
on the non-interactive behaviour for the remainder of the execution.

EOH
 . ./myread
 cat <<EOH

Much effort has been expended to ensure that this shell script will run on any
Unix system.  If despite that it blows up on yours, your best bet is to edit
Configure and run it again.  If you can't run Configure for some reason,
you'll have to generate a config.sh file by hand.  Whatever problems you
have, let me (<MAINTLOC>) know how I blew it.

This installation script affects things in two ways:

1) it may do direct variable substitutions on some of the files included
  in this kit.
2) it builds a config.h file for inclusion in
 C programs.  You may edit
  any of these files as the need arises after running this script.

If you make a mistake on a question, there is no easy way to back up to it
currently.  The easiest thing to do is to edit config.sh and rerun all the SH
files.  Configure will offer to let you do this before it runs the SH files.

EOH
```

```
?X: In case they played with the prompter...
 dflt='Type carriage return to continue'
 . ./myread
 case "$firsttime" in
 true) echo $user >>../.config/instruct;;
 esac
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Instruct.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_nolnbuf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_nolnbuf.U,v $
?RCS: Revision 3.0.1.1  1994/05/06  14:46:07  ram
?RCS: patch23: avoid looping in the "see that again?" prompt (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:43  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_nolnbuf: test +cc cat rm Setvar Myread
?MAKE: -pick add $@ %<
?S:d_nolnbuf:
?S: This variable conditionally defines the NOLINEBUF symbol, which
?S: indicates to the C program that stdout is not buffered, so that
?S: the
 program can call setbuf() or setlinebuf() for efficiency.
?S:.
?C:NOLINEBUF:
?C: This symbol, if defined, indicates that stdout is not buffered, so that
?C: the program can call setbuf() or setlinebuf() for efficiency.
?C:.
?H:#$d_nolnbuf NOLINEBUF /**/
?H:.
?T:xxx
?F:!blurfl
?LINT:set d_nolnbuf
: check for buffering of stdout
```

```
echo " "
case "$d_nolnbuf" in
")
 $cat <<'EOT' >blurfl.c
#include <stdio.h>
int main()
{
 int i;

 for (i = 0; i < 5; i++) {
  putchar(i+'a');
  sleep(1);
 }
 putchar('\n');
}
EOT
 $cc -o blurfl blurfl.c >/dev/null 2>&1;
 $rm -f blurfl.c
 $cat >&4 <<'EOM'
Checking for buffering of stdout to terminal.

Observe the following characters as they are printed out, to see whether they
print out all at once, or with a 1 second pause between each of them.  If they
print out one by one, you don't have buffering.  If they print together (after
about a 5 second pause), you do have buffering.

EOM
 dflt='Type return to start printing the test characters'
 rp="
 .
 ./myread
 xxx=y
 while $test "$xxx" = 'y'; do
  ./blurfl 1>&4
  dflt=n
  rp='Would you like to see that again?'
  . ./myread
  case "$ans" in
  [yY]*) xxx="y";;
  *) xxx="n";;
  esac
 done
 dflt=y
 rp="Do you have buffering (printed all at once)?"
 . ./myread
 case "$ans" in
 n*) val="$define";;
 *)  val="$undef";;
```

```
 esac
 ;;
*)
 case "$d_nolnbuf" in
 "$define") dflt=n;;
 *) dflt=y;;
 esac
 rp="Do you have buffering on stdout to terminals?"
 . ./myread
 case "$ans" in
 n*) val="$define";;
 *)  val="$undef";;
 esac
 ;;
esac
set d_nolnbuf
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_nolnbuf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_shmat.U,v $
?RCS: Revision 3.0.1.3  1995/07/25  14:04:23  ram
?RCS: patch56: use findhdr to find <sys/shm.h>, to get the right one (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:18:56  ram
?RCS: patch27: added new symbol HAS_SHMAT_PROTOTYPE (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:54:18  ram
?RCS: patch23: new Shmat_t symbol to declare return type of shmat()
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:18  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_shmat shmattype
```

```
 d_shmatprototype: Inlibc cat +cc +ccflags \
 rm cppstdin cppflags cppminus Findhdr Setvar contains
?MAKE: -pick add $@ %<
?S:d_shmat:
?S: This variable conditionally defines the HAS_SHMAT symbol, which
?S: indicates to the C program that the shmat() routine is available.
?S:.
?S:shmattype:
?S: This symbol contains the type of pointer returned by shmat().
?S: It can be 'void *' or 'char *'.
?S:.
?S:d_shmatprototype:
?S: This variable conditionally defines the HAS_SHMAT_PROTOTYPE
?S: symbol, which indicates that sys/shm.h has a prototype for
?S: shmat.
?S:.
?C:HAS_SHMAT:
?C: This symbol, if defined, indicates that the shmat() routine is
?C: available to attach a shared memory segment to the process space.
?C:.
?C:Shmat_t:
?C: This symbol holds the return type of the shmat() system call.
?C: Usually set to 'void *' or 'char *'.
?C:.
?C:HAS_SHMAT_PROTOTYPE:
?C: This symbol, if defined, indicates that the sys/shm.h includes
?C: a prototype for shmat().  Otherwise, it is up to the program
 to
?C: guess one.  Shmat_t shmat _((int, Shmat_t, int)) is a good guess,
?C: but not always right so it should be emitted by the program only
?C: when HAS_SHMAT_PROTOTYPE is not defined to avoid conflicting defs.
?C:.
?H:#$d_shmat HAS_SHMAT  /**/
?H:#define Shmat_t $shmattype /**/
?H:#$d_shmatprototype HAS_SHMAT_PROTOTYPE /**/
?H:.
?LINT:set d_shmat d_shmatprototype
?T:xxx
: see if shmat exists
set shmat d_shmat
eval $inlibc
: see what shmat returns
case "$d_shmat" in
"$define")
 $cat >shmat.c <<'END'
#include <sys/shm.h>
void *shmat();
END
```

```
 if $cc $ccflags -c shmat.c >/dev/null 2>&1; then
  shmattype='void *'
 else
  shmattype='char *'
 fi
 echo "and it returns ($shmattype)." >&4
 : see if a prototype for shmat is available
 xxx=`./findhdr sys/shm.h`
 $cppstdin $cppflags $cppminus < $xxx > shmat.c 2>/dev/null
 if $contains 'shmat.*(' shmat.c >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 $rm -f shmat.[co]
 ;;
*)
 val="$undef"
 ;;
esac
set d_shmatprototype
eval $setvar
```

Found
 in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_shmat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Typedef.U,v $
?RCS: Revision 3.0.1.3  1995/07/25  13:42:07  ram
?RCS: patch56: added backslash escapes within evals to prevent space problems
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:01:16  ram
?RCS: patch36: don't clobber visible 'val' variable, use 'varval' instead
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:05:14  ram
?RCS: patch32: created
```

```
?RCS:
?X:
?X: This unit checks for the definition of a given typedef.
?X:
?X: To use it, say:
?X: set typedef val_t default [includes]
?X: eval $typedef
?X:
?MAKE:Typedef:
 cppstdin cppminus cppflags rm contains Oldconfig
?MAKE: -pick add $@ %<
?F:!temp.c
?LINT:define typedef
?V:typedef
?S:typedef:
?S: This shell variable is used internally by Configure to check
?S: wether a given typedef is defined or not. A typical use is:
?S:  set typedef val_t default [includes]
?S:  eval $typedef
?S: That will return val_t set to default if the typedef was not found,
?S: to typedef otherwise. If no includes are specified, look in sys/types.h.
?S:.
?T:type var def inclist varval inc
: define an is-a-typedef? function
typedef='type=$1; var=$2; def=$3; shift; shift; shift; inclist=$@;
case "$inclist" in
"") inclist="sys/types.h";;
esac;
eval "varval=\$$var";
case "$varval" in
"")
 $rm -f temp.c;
 for inc in $inclist; do
  echo "#include <$inc>" >>temp.c;
 done;
 $cppstdin $cppflags $cppminus < temp.c >temp.E 2>/dev/null;
 if $contains $type temp.E >/dev/null 2>&1; then
  eval "$var=\$type";
 else
  eval "$var=\$def";
 fi;
 $rm -f temp.?;;
*) eval
 "$var=\$varval";;
esac'
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/dist/U/Typedef.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: basicshell.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: basicshell.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:25  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:basicshell: Getfile Oldconfig bash csh ksh sh
?MAKE: -pick add $@ %<
?S:basicshell:
?S: This variable contains the eventual value of the BASICSHELL symbol,
?S: which contains the full name of the basic script shell on this
?S: system.  Usual values are /bin/sh, /bin/ksh, /bin/csh.
?S:.
?C:BASICSHELL:
?C: This symbol contains the
 full name of the basic script shell on this
?C: system.  Usual values are /bin/sh, /bin/ksh, /bin/csh.
?C:.
?H:#define BASICSHELL "$basicshell"  /**/
?H:.
: find the most basic shell for scripts
echo " "
case "$basicshell" in
")
 case "$sh $bash $csh $ksh" in
 */sh*) dflt="$sh" ;;
 */ksh*) dflt="$ksh" ;;
 */csh*) dflt="$csh" ;;
 */bash*) dflt="$bash" ;;
 *) dflt='/bin/sh' ;;
 esac
 ;;
*)
 dflt="$basicshell";;
esac
fn=f
rp="Give the full path name of the most basic shell used on your system"
```

```
. ./getfile
basicshell=$ans
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/basicshell.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:i_poll: Inhdr
?MAKE: -pick add $@ %<
?S:i_poll:
?S: This variable conditionally defines the I_POLL symbol, which
?S: indicates to the C program that it should include <poll.h>.
?S:.
?C:I_POLL:
?C: This symbol, if defined, indicates that the program may include
?C: <poll.h>.  If there is no <poll.h>, then you may check I_SYS_POLL
?C: instead to see whether there is a <sys/poll.h> to include.
?C:.
?H:#$i_poll I_POLL /**/
?H:.
?LINT:set i_poll
: see if there is a poll.h file
set poll.h i_poll
eval $inhdr
```

Found
 in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_poll.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_netdb.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
?MAKE:i_netdb: Inhdr
?MAKE: -pick add $@ %<
?S:i_netdb:
?S: This variable conditionally defines the I_NETDB symbol, and indicates
?S: whether a C program should include <netdb.h>.
?S:.
?C:I_NETDB:
?C: This symbol, if defined, indicates that <netdb.h> exists and
?C: should be included.
?C:.
?H:#$i_netdb I_NETDB  /**/
?H:.
?LINT:set i_netdb
: see if this is a netdb.h system
set netdb.h i_netdb
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_netdb.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Myread.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Myread.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  15:05:39  ram
?RCS: patch61: myread script now starts with a "startsh"
?RCS: patch61: miscellaneous fixes
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:14:22  ram
?RCS: patch45: added & escape allowing user to turn on -d from the prompt
?RCS:
?RCS: Revision 3.0.1.4  1994/10/31  09:48:04  ram
?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U
?RCS:
?RCS: Revision 3.0.1.3  1994/10/29
  15:56:20  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
```

```
?RCS: Revision 3.0.1.2  1993/08/30  08:57:59  ram
?RCS: patch8: added new visible 'nostick' symbol, mainly for Finish.U
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:39:20  ram
?RCS: patch7: now sticks to the question when no default and empty answer
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to do a read.  It allows for shell escapes, default assignment and
?X: parameter evaluation.
?X:
?X: To use this unit, $rp and $dflt must hold the question and the
?X: default answer. The question will be printed by the script itself.
?X: Neither $rp nor $dflt is altered by the script.
?X:
?X: The myread script will stick to the question if no default is proposed
?X: and the user answer is empty, which prevents mistakes. However, at the
?X: end of Configure, there is an exception
 to this rule (Finish.U) where we
?X: set nostick to a non-empty value to allow the Return key to play its role!
?X:
?MAKE:Myread: Options startsh n c trnl
?MAKE: -pick add $@ %<
?V:ans:dflt rp nostick
?F:./myread
?T:COLUMNS xxxm rp dflt answ aok myecho
?LINT:change fastread
?X: Some shells (Ultrix) do not understand ${COLUMNS:-80}, sigh!
: compute the number of columns on the terminal for proper question formatting
case "$COLUMNS" in
") COLUMNS='80';;
esac

: set up the echo used in my read
?X:
?X: This variable is intended to be eval'ed. It will echo the two
?X: variables $rp and $dflt (provided this latter has a non null value).
?X: It is mainly used by the myread script to echo the questions.
?X:
?X: The $n and $c below are substituted before Loc does its silly echo check
?X: so don't put a $ on the echo below so we get builtin, even if $echo is
?X: pointing to /bin/echo.
?X:
myecho="case \"\$xxxm\" in
") echo $n \"\$rp $c\" >&4;;
```

```
*) case \"\$rp\" in
 ") echo $n \"[\$xxxm] $c\";;
 *)
  if
 test \`echo \"\$rp [\$xxxm]  \" | wc -c\` -ge $COLUMNS; then
   echo \"\$rp\" >&4
   echo $n \"[\$xxxm] $c\" >&4
  else
   echo $n \"\$rp [\$xxxm] $c\" >&4
  fi
  ;;
 esac;;
esac"

: now set up to do reads with possible shell escape and default assignment
cat <<EOSC >myread
$startsh
?X:
?X: Save value of default -- do not alter original in case of eval
?X:
xxxm=\$dflt
$myecho
?X:
?X: If there is no default, then stop, regardless of the value in fastread.
?X: In silent mode, no new-line is to be echoed if the question is empty,
?X: since this is used to wait for the "return" key.
?X:
ans='!'
case "\$fastread" in
yes) case "\$dflt" in
 ") ;;
 *) ans=";
  case "\$silent-\$rp" in
  true-) ;;
  *) echo " " >&4;;
  esac;;
 esac;;
*) case "\$silent" in
 true) case "\$rp" in
  ") ans=";;
  esac;;
 esac;;
esac
while expr "X\$ans" : "X!" >/dev/null; do
 read answ
?X:
?X: Run 'eval' on the answer, in order to do variable substitution, in case
?X: the user types $HOME or $WHATEVER.
```

```
 Variables must be evaluated now.
?X: Typing '\$HOME' won't currently prevent from substitution -- use '\\$HOME'
?X: The $1 .. $9 and $*, as well as $@, are available to refer to the
?X: default value.
?X:
 set x \$xxxm
 shift
 aok=''; eval "ans=\\"\$answ\\"" && aok=y
 case  "\$answ" in
?X:
?X: Use "!" and not a plain ! because of a bug in BSD 4.4 shell
?X: (reported by Wayne Davison)
?X: We must handle the shell escapes before dealing with possible variable
?X: substitution, since the shell we're launching in that case will be able
?X: to do it as well as we can -- RAM, 15/03/96
?X
 "!")
  sh 1>&4
  echo " "
  $myecho
  ;;
 !*)
  set x \`expr "X\$ans" : "X!\(.*\)\$"\`
  shift
  sh 1>&4 -c "\$*"
  echo " "
  $myecho
  ;;
 "\$ans")
  case "\$ans" in
?X:
?X: Answers starting with & are hooks allowing to dynamically turn on/off
?X: some Configure options. That's for the future. -- RAM, 09/01/95
?X: Today, we only recognize '& -d' to mean 'go on as if Configure -d, which
?X: is a hardwired
 behaviour compatible with our general scheme.
?X:
  \\&*)
   set x \`expr "X\$ans" : "X&\(.*\)\$"\`
   shift
   case "\$1" in
   -d)
    fastread=yes
    echo "(OK, I'll run with -d after this question.)" >&4
    ;;
   -*)
    echo "*** Sorry, \$1 not supported yet." >&4
    ;;
```

```
  esac
  $myecho
  ans=!
  ;;
 esac;;
*)
 case "\$aok" in
 y)
  echo "*** Substitution done -- please confirm."
  xxxm="\$ans"
  ans=\`echo $n "\$ans$c" | tr '$trnl' ' '\`
  xxxm="\$ans"
  ans=!
  ;;
 *)
  echo "*** Error -- try again."
  ans=!
  ;;
 esac
 $myecho
 ;;
esac
?X: Stick in myread if no default answer and nothing was answered
 case "\$ans\$xxxm\$nostick" in
 ")
  ans=!
  $myecho
  ;;
 esac
done
case "\$ans" in
") ans="\$xxxm";;
esac
EOSC
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Myread.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_stdstdio.U,v 3.0.1.3 1997/02/28 15:46:32 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Tye McQueen <tye@metronet.com>
?RCS:
?RCS: $Log: d_stdstdio.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:46:32  ram
?RCS: patch61: merged with perl5's unit
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  14:06:54  ram
?RCS: patch56: typo fix on ?C: line for FILE_bufsiz
?RCS: patch56: fixed unbalanced parenthesis (ADO)
?RCS: patch56: check whether FILE_cnt and FILE_ptr can be assigned to (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1995/05/12  12:12:11  ram
?RCS:
 patch54: complete rewrite by Tye McQueen to fit modern systems
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_stdstdio d_stdiobase stdio_ptr stdio_cnt \
 d_stdio_ptr_lval_sets_cnt d_stdio_ptr_lval_nochange_cnt stdio_base \
 stdio_bufsiz d_stdio_cnt_lval d_stdio_ptr_lval stdio_filbuf: cat \
 Compile contains rm_try d_gnulibc gnulibc_version i_stdlib \
 Setvar Findhdr Oldconfig run to
?MAKE: -pick weed $@ %<
?S:d_stdstdio:
?S: This variable conditionally defines USE_STDIO_PTR if this system
?S: has a FILE structure declaring usable _ptr and _cnt fields (or
?S: equivalent) in stdio.h.
?S:.
?S:stdio_ptr:
?S: This variable defines how, given a FILE pointer, fp, to access the
?S: _ptr field (or equivalent) of stdio.h's FILE structure.  This will
?S: be used to define the macro FILE_ptr(fp).
?S:.
?S:d_stdio_ptr_lval:
?S: This variable conditionally defines STDIO_PTR_LVALUE if the
?S: FILE_ptr macro can be used as an lvalue.
?S:.
?S:stdio_cnt:
?S: This
 variable defines how, given a FILE pointer, fp, to access the
?S: _cnt field (or equivalent) of stdio.h's FILE structure.  This will
?S: be used to define the macro FILE_cnt(fp).
?S:.
?S:d_stdio_cnt_lval:
?S: This variable conditionally defines STDIO_CNT_LVALUE if the
```

```
?S: FILE_cnt macro can be used as an lvalue.
?S:.
?S:d_stdio_ptr_lval_sets_cnt:
?S: This symbol is defined if using the FILE_ptr macro as an lvalue
?S: to increase the pointer by n has the side effect of decreasing the
?S: value of File_cnt(fp) by n.
?S:.
?S:d_stdio_ptr_lval_nochange_cnt:
?S: This symbol is defined if using the FILE_ptr macro as an lvalue
?S: to increase the pointer by n leaves File_cnt(fp) unchanged.
?S:.
?S:stdio_filbuf:
?S: This variable defines how, given a FILE pointer, fp, to tell
?S: stdio to refill its internal buffers (?).  This will
?S: be used to define the macro FILE_filbuf(fp).
?S:.
?S:d_stdiobase:
?S: This variable conditionally defines USE_STDIO_BASE if this system
?S: has
 a FILE structure declaring a usable _base field (or equivalent)
?S: in stdio.h.
?S:.
?S:stdio_base:
?S: This variable defines how, given a FILE pointer, fp, to access the
?S: _base field (or equivalent) of stdio.h's FILE structure.  This will
?S: be used to define the macro FILE_base(fp).
?S:.
?S:stdio_bufsiz:
?S: This variable defines how, given a FILE pointer, fp, to determine
?S: the number of bytes store in the I/O buffer pointer to by the
?S: _base field (or equivalent) of stdio.h's FILE structure.  This will
?S: be used to define the macro FILE_bufsiz(fp).
?S:.
?C:USE_STDIO_PTR ~ d_stdstdio (USE_STD_STDIO STDSTDIO):
?C: This symbol is defined if the _ptr and _cnt fields (or similar)
?C: of the stdio FILE structure can be used to access the stdio buffer
?C: for a file handle.  If this is defined, then the FILE_ptr(fp)
?C: and FILE_cnt(fp) macros will also be defined and should be used
?C: to access these fields.
?C:.
?C:FILE_ptr:
?C: This macro is used to access the _ptr
 field (or equivalent) of the
?C: FILE structure pointed to by its argument. This macro will always be
?C: defined if USE_STDIO_PTR is defined.
?C:.
?C:STDIO_PTR_LVALUE:
?C: This symbol is defined if the FILE_ptr macro can be used as an
```

```
?C: lvalue.
?C:.
?C:FILE_cnt:
?C: This macro is used to access the _cnt field (or equivalent) of the
?C: FILE structure pointed to by its argument. This macro will always be
?C: defined if USE_STDIO_PTR is defined.
?C:.
?C:STDIO_CNT_LVALUE:
?C: This symbol is defined if the FILE_cnt macro can be used as an
?C: lvalue.
?C:.
?C:STDIO_PTR_LVAL_SETS_CNT:
?C: This symbol is defined if using the FILE_ptr macro as an lvalue
?C: to increase the pointer by n has the side effect of decreasing the
?C: value of File_cnt(fp) by n.
?C:.
?C:STDIO_PTR_LVAL_NOCHANGE_CNT:
?C: This symbol is defined if using the FILE_ptr macro as an lvalue
?C: to increase the pointer by n leaves File_cnt(fp) unchanged.
?C:.
?C:FILE_filbuf:
?C: This macro is used to access the internal stdio
 _filbuf function
?C: (or equivalent), if STDIO_CNT_LVALUE and STDIO_PTR_LVALUE
?C: are defined.  It is typically either _filbuf or __filbuf.
?C: This macro will only be defined if both STDIO_CNT_LVALUE and
?C: STDIO_PTR_LVALUE are defined.
?C:.
?H:?d_stdstdio:#$d_stdstdio USE_STDIO_PTR /**/
?H:?d_stdstdio:#ifdef USE_STDIO_PTR
?H:#define FILE_ptr(fp) $stdio_ptr
?H:#$d_stdio_ptr_lval STDIO_PTR_LVALUE  /**/
?H:#define FILE_cnt(fp) $stdio_cnt
?H:#$d_stdio_cnt_lval STDIO_CNT_LVALUE  /**/
?H:#$d_stdio_ptr_lval_sets_cnt STDIO_PTR_LVAL_SETS_CNT /**/
?H:#$d_stdio_ptr_lval_nochange_cnt STDIO_PTR_LVAL_NOCHANGE_CNT /**/
?H:?FILE_filbuf:#if defined(STDIO_PTR_LVALUE) && defined(STDIO_CNT_LVALUE)
?H:?FILE_filbuf:#define FILE_filbuf(fp) $stdio_filbuf  /**/
?H:?FILE_filbuf:#endif
?H:?d_stdstdio:#endif
?H:.
?W:d_stdstdio:FILE_ptr FILE_cnt FILE_filbuf
?C:USE_STDIO_BASE ~ d_stdiobase:
?C: This symbol is defined if the _base field (or similar) of the
?C: stdio FILE structure can be used to access the
 stdio buffer for
?C: a file handle.  If this is defined, then the FILE_base(fp) macro
?C: will also be defined and should be used to access this field.
```

```
?C: Also, the FILE_bufsiz(fp) macro will be defined and should be used
?C: to determine the number of bytes in the buffer.  USE_STDIO_BASE
?C: will never be defined unless USE_STDIO_PTR is.
?C:.
?C:FILE_base:
?C: This macro is used to access the _base field (or equivalent) of the
?C: FILE structure pointed to by its argument. This macro will always be
?C: defined if USE_STDIO_BASE is defined.
?C:.
?C:FILE_bufsiz:
?C: This macro is used to determine the number of bytes in the I/O
?C: buffer pointed to by _base field (or equivalent) of the FILE
?C: structure pointed to its argument. This macro will always be defined
?C: if USE_STDIO_BASE is defined.
?C:.
?H:?d_stdiobase:#$d_stdiobase USE_STDIO_BASE /**/
?H:?d_stdiobase:#ifdef USE_STDIO_BASE
?H:#define FILE_base(fp) $stdio_base
?H:#define FILE_bufsiz(fp) $stdio_bufsiz
?H:?d_stdiobase:#endif
?H:.
?W:d_stdiobase:FILE_base
 FILE_bufsiz
?T:ptr_lval cnt_lval filbuf xxx
?F:!try
?LINT:set d_stdstdio d_stdiobase
: see if _ptr and _cnt from stdio act std
echo " "

if $contains '_lbfsize' `./findhdr stdio.h` >/dev/null 2>&1 ; then
 echo "(Looks like you have stdio.h from BSD.)"
 case "$stdio_ptr" in
 '') stdio_ptr='((fp)->_p)'
  ptr_lval=$define
  ;;
 *) ptr_lval=$d_stdio_ptr_lval;;
 esac
 case "$stdio_cnt" in
 '') stdio_cnt='((fp)->_r)'
  cnt_lval=$define
  ;;
 *) cnt_lval=$d_stdio_cnt_lval;;
 esac
 case "$stdio_base" in
 '') stdio_base='((fp)->_ub._base ? (fp)->_ub._base : (fp)->_bf._base)';;
 esac
 case "$stdio_bufsiz" in
 '') stdio_bufsiz='((fp)->_ub._base ? (fp)->_ub._size : (fp)->_bf._size)';;
```

```
 esac
elif $contains '_IO_fpos_t' `./findhdr stdio.h` `./findhdr libio.h` >/dev/null 2>&1 ; then
 echo "(Looks like you have stdio.h from Linux.)"
 case "$stdio_ptr" in
 ") stdio_ptr='((fp)->_IO_read_ptr)'
  ptr_lval=$define
  ;;
 *) ptr_lval=$d_stdio_ptr_lval;;
 esac
 case "$stdio_cnt"
 in
 ") stdio_cnt='((fp)->_IO_read_end - (fp)->_IO_read_ptr)'
  cnt_lval=$undef
  ;;
 *) cnt_lval=$d_stdio_cnt_lval;;
 esac
 case "$stdio_base" in
 ") stdio_base='((fp)->_IO_read_base)';;
 esac
 case "$stdio_bufsiz" in
 ") stdio_bufsiz='((fp)->_IO_read_end - (fp)->_IO_read_base)';;
 esac
else
 case "$stdio_ptr" in
 ") stdio_ptr='((fp)->_ptr)'
  ptr_lval=$define
  ;;
 *) ptr_lval=$d_stdio_ptr_lval;;
 esac
 case "$stdio_cnt" in
 ") stdio_cnt='((fp)->_cnt)'
  cnt_lval=$define
  ;;
 *) cnt_lval=$d_stdio_cnt_lval;;
 esac
 case "$stdio_base" in
 ") stdio_base='((fp)->_base)';;
 esac
 case "$stdio_bufsiz" in
 ") stdio_bufsiz='((fp)->_cnt + (fp)->_ptr - (fp)->_base)';;
 esac
fi

: test whether _ptr and _cnt really work
echo "Checking how std your stdio is..." >&4
$cat >try.c <<EOP
#include <stdio.h>
#$i_stdlib I_STDLIB
```

```
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#define FILE_ptr(fp) $stdio_ptr
#define FILE_cnt(fp) $stdio_cnt
int main() {
 FILE *fp = fopen("try.c", "r");
 char c = getc(fp);
 if
 (
  18 <= FILE_cnt(fp) &&
  strncmp(FILE_ptr(fp), "include <stdio.h>\n", 18) == 0
 )
  exit(0);
 exit(1);
}
EOP
val="$undef"
set try
if eval $compile && $to try.c; then
 if $run ./try; then
  echo "Your stdio acts pretty std."
  val="$define"
 else
  echo "Your stdio isn't very std."
 fi
else
 echo "Your stdio doesn't appear very std."
fi
$rm_try

# glibc 2.2.90 and above apparently change stdio streams so Perl's
# direct buffer manipulation no longer works.  The Configure tests
# should be changed to correctly detect this, but until then,
# the following check should at least let perl compile and run.
# (This quick fix should be updated before 5.8.1.)
# To be defensive, reject all unknown versions, and all versions  > 2.2.9.
# A. Dougherty, June 3, 2002.
case "$d_gnulibc" in
$define)
 case "$gnulibc_version" in
 2.[01]*)  ;;
 2.2) ;;
 2.2.[0-9]) ;;
 *)  echo "But I will not snoop inside glibc $gnulibc_version stdio buffers."
  val="$undef"
  ;;
 esac
```

```
 ;;
esac
set d_stdstdio
eval
 $setvar

@if STDIO_PTR_LVALUE || d_stdio_ptr_lval
: Can _ptr be used as an lvalue?
?X: Only makes sense if we have a known stdio implementation.
case "$d_stdstdio$ptr_lval" in
$define$define) val=$define ;;
*) val=$undef ;;
esac
set d_stdio_ptr_lval
eval $setvar
@end

@if STDIO_CNT_LVALUE || d_stdio_cnt_lval
: Can _cnt be used as an lvalue?
?X: Only makes sense if we have a known stdio implementation.
case "$d_stdstdio$cnt_lval" in
$define$define) val=$define ;;
*) val=$undef ;;
esac
set d_stdio_cnt_lval
eval $setvar
@end

@if FILE_filbuf
: How to access the stdio _filbuf or __filbuf function.
: If this fails, check how the getc macro in stdio.h works.
case "${d_stdio_ptr_lval}${d_stdio_cnt_lval}" in
${define}${define})
 : Try $hint value, if any, then _filbuf, __filbuf, _fill, then punt.
 : _fill is for os/2.
 xxx='notok'
 for filbuf in $stdio_filbuf '_filbuf(fp)' '__filbuf(fp) ' '_fill(fp)' ; do
  $cat >try.c <<EOP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#define
 FILE_ptr(fp) $stdio_ptr
#define FILE_cnt(fp) $stdio_cnt
#define FILE_filbuf(fp) $filbuf
int main() {
```

```
 FILE *fp = fopen("try.c", "r");
 int c;
 c = getc(fp);
 c = FILE_filbuf(fp);  /* Just looking for linker errors.*/
 exit(0);
}
EOP
  set try
  if eval $compile && $to try.c && $run ./try; then
   echo "Your stdio appears to use $filbuf"
   stdio_filbuf="$filbuf"
   xxx='ok'
   break
  else
   echo "Hmm.  $filbuf doesn't seem to work."
  fi
  $rm_try
 done
 case "$xxx" in
 notok) echo "I can't figure out how to access _filbuf"
   echo "I'll just have to work around it."
   d_stdio_ptr_lval="$undef"
   d_stdio_cnt_lval="$undef"
   ;;
 esac
 ;;
esac
@end

@if STDIO_PTR_LVALUE
: test whether setting _ptr sets _cnt as a side effect
d_stdio_ptr_lval_sets_cnt="$undef"
d_stdio_ptr_lval_nochange_cnt="$undef"
case "$d_stdio_ptr_lval$d_stdstdio" in
$define$define)
 echo "Checking to see what happens if we set the stdio ptr..." >&4
$cat >try.c <<EOP
#include <stdio.h>
/* Can
 we scream? */
/* Eat dust sed :-) */
/* In the buffer space, no one can hear you scream. */
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#define FILE_ptr(fp) $stdio_ptr
#define FILE_cnt(fp) $stdio_cnt
```

```
#include <sys/types.h>
int main() {
 FILE *fp = fopen("try.c", "r");
 int c;
 char *ptr;
 size_t cnt;
 if (!fp) {
     puts("Fail even to read");
     exit(1);
 }
 c = getc(fp); /* Read away the first # */
 if (c == EOF) {
     puts("Fail even to read");
     exit(1);
 }
 if (!(
  18 <= FILE_cnt(fp) &&
  strncmp(FILE_ptr(fp), "include <stdio.h>\n", 18) == 0
 )) {
  puts("Fail even to read");
  exit (1);
 }
 ptr = (char*) FILE_ptr(fp);
 cnt = (size_t)FILE_cnt(fp);

 FILE_ptr(fp) += 42;

 if ((char*)FILE_ptr(fp) != (ptr + 42)) {
  printf("Fail ptr check %p != %p", FILE_ptr(fp), (ptr + 42));
  exit (1);
 }
 if (FILE_cnt(fp) <= 20) {
  printf ("Fail (<20 chars to test)");
  exit (1);
 }
 if (strncmp(FILE_ptr(fp), "Eat dust sed :-) */\n", 20) != 0) {
  puts("Fail compare");
  exit
 (1);
 }
 if (cnt == FILE_cnt(fp)) {
  puts("Pass_unchanged");
  exit (0);
 }
 if (FILE_cnt(fp) == (cnt - 42)) {
  puts("Pass_changed");
  exit (0);
 }
```

```
 printf("Fail count was %d now %d\n", cnt, FILE_cnt(fp));
 return 1;

}
EOP
 set try
 if eval $compile && $to try.c; then
  case `$run ./try` in
  Pass_changed)
   echo "Increasing ptr in your stdio decreases cnt by the same amount.  Good." >&4
   d_stdio_ptr_lval_sets_cnt="$define" ;;
  Pass_unchanged)
   echo "Increasing ptr in your stdio leaves cnt unchanged.  Good." >&4
   d_stdio_ptr_lval_nochange_cnt="$define" ;;
  Fail*)
   echo "Increasing ptr in your stdio didn't do exactly what I expected.  We'll not be doing that then." >&4 ;;
  *)
   echo "It appears attempting to set ptr in your stdio is a bad plan." >&4 ;;
 esac
 else
  echo "It seems we can't set ptr in your stdio.  Nevermind." >&4
 fi
 $rm_try
 ;;
esac
@end

@if d_stdiobase || USE_STDIO_BASE || FILE_base || FILE_bufsiz
: see if _base is also standard
val="$undef"
case
 "$d_stdstdio" in
$define)
 $cat >try.c <<EOP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#define FILE_base(fp) $stdio_base
#define FILE_bufsiz(fp) $stdio_bufsiz
int main() {
 FILE *fp = fopen("try.c", "r");
 char c = getc(fp);
 if (
  19 <= FILE_bufsiz(fp) &&
  strncmp(FILE_base(fp), "#include <stdio.h>\n", 19) == 0
 )
```

```
  exit(0);
 exit(1);
}
EOP
 set try
 if eval $compile && $to try.c; then
  if $run ./try; then
   echo "And its _base field acts std."
   val="$define"
  else
   echo "But its _base field isn't std."
  fi
 else
  echo "However, it seems to be lacking the _base field."
 fi
 $rm_try
 ;;
esac
set d_stdiobase
eval $setvar

@end
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_stdstdio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_exp2: Inlibc
?MAKE: -pick add $@ %<
?S:d_exp2:
?S: This variable conditionally defines the HAS_EXP2 symbol, which
?S: indicates to the C program that the exp2() routine is available.
?S:.
?C:HAS_EXP2:
?C: This symbol, if defined, indicates that the exp2 routine is
?C: available to do the 2**x function.
?C:.
?H:#$d_exp2 HAS_EXP2  /**/
?H:.
?LINT:set d_exp2
: see if exp2 exists
set exp2 d_exp2
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_exp2.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_csh.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:32:18  ram
?RCS: patch61: added full_csh to preserve the full path even when portable
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:53  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_csh full_csh: csh Setvar
?MAKE: -pick add $@ %<
?S:d_csh:
?S: This variable conditionally defines the CSH symbol, which
?S: indicates to the C program that the C-shell exists.
?S:.
?S:full_csh:
?S: This variable contains the full pathname to 'csh', whether
 or
?S: not the user has specified 'portability'.  This is only used
?S: in the compiled C program, and we assume that all systems which
?S: can share this executable will have the same full pathname to
?S: 'csh.'
?S:.
?X: Yes, I know about the C symbol PORTABLE, but I think csh
?X: is unlikely to move, and I'm too lazy to add all the
?X: #ifdef PORTABLE sections to the perl source.
?X:
?C:HAS_CSH:
?C: This symbol, if defined, indicates that the C-shell exists.
?C:.
?C:CSH:
?C: This symbol, if defined, contains the full pathname of csh.
?C:.
?X: Previously, I just did $d_csh CSH "$full_csh", but that caused
?X: problems on VMS where the config.sh extraction program changes
```

```
?X: $undef to a real cpp undef, and they then had  #undef CSH ""
?X: which the compiler didn't like.  It's easy to work around this,
?X: so I did.  --AD  3/1998.
?X: And we don't want to define CSH if !HAS_CSH, but we don't want
?X: those lines in config.h if they don't need CSH, so protect with ?CSH
?X: and not
 ?%<. --RAM, 15/02/2004
?H:?%<:#$d_csh HAS_CSH  /**/
?H:?CSH:#ifdef HAS_CSH
?H:?CSH:#define CSH "$full_csh" /**/
?H:?CSH:#endif
?H:.
?LINT:set d_csh
: get csh whereabouts
case "$csh" in
'csh') val="$undef" ;;
*) val="$define" ;;
esac
set d_csh
eval $setvar
: Respect a hint or command line value for full_csh.
case "$full_csh" in
") full_csh=$csh ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_csh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:versionony: cat Myread Setvar Devel
?MAKE: -pick add $@ %<
?LINT:set versionony
?Y:TOP
?S:versionony:
?S: If set, this symbol indicates that only the version-specific
?S: components of a perl installation should be installed.
?S: This may be useful for making a test installation of a new
```

```
?S: version without disturbing the existing installation.
?S: Setting versiononly is equivalent to setting installperl's -v option.
?S: In particular, the non-versioned scripts and programs such as
?S: a2p, c2ph, h2xs, pod2*, and perldoc
 are not installed
?S: (see INSTALL for a more complete list).  Nor are the man
?S: pages installed.
?S: Usually, this is undef.
?S:.
?LINT:extern inc_version_list
?LINT:change inc_version_list
?LINT:extern inc_version_list_init
?LINT:change inc_version_list_init
?LINT:extern version
: determine whether to use a version number suffix for installed binaries
echo " "
$cat <<EOM
Do you want to use a version number suffix for installed binaries? This
will install 'perl$version' instead of 'perl', and likewise for other
binaries like 'perldoc' and 'cpan'. This allows many versions of perl
to be installed side-by-side. Unless you are a developer, you probably
do *not* want to do this.
EOM
case "$versiononly" in
"$define"|[Yy]*|true) dflt='y' ;;
*) dflt='n';
esac
rp="Do you want to use a version number suffix for installed binaries?"
. ./myread
case "$ans" in
[yY]*) val="$define";;
*) val="$undef" ;;
esac
set versiononly
eval $setvar

case "$versiononly" in
"$define") inc_version_list="
          inc_version_list_init=0
         ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/versiononly.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_dlsymun.U,v $

```
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_dlsymun.U,v $
?RCS:
?RCS:
?MAKE:d_dlsymun: cat cc ccflags ldflags ld rm Setvar dlsrc i_dlfcn i_stdlib \
 cccdlflags ccdlflags lddlflags libs dlext _o run to
?MAKE: -pick add $@ %<
?X: This is specific to perl5.
?S:d_dlsymun:
?S: This variable conditionally defines DLSYM_NEEDS_UNDERSCORE, which
?S: indicates that we need to prepend an underscore to the symbol
?S: name before calling dlsym().
?S:.
?C:DLSYM_NEEDS_UNDERSCORE:
?C: This symbol, if defined, indicates that we need to prepend an
?C: underscore to the symbol name before calling dlsym().  This only
?C: makes sense if you *have* dlsym, which we will presume is the
?C: case if you're using dl_dlopen.xs.
?C:.
?H:#$d_dlsymun DLSYM_NEEDS_UNDERSCORE /**/
?H:.
?LINT:set
 d_dlsymun
?T: xxx
?F:!fred
: Check if dlsym need a leading underscore
echo " "
val="$undef"

case "$dlsrc" in
dl_dlopen.xs)
 echo "Checking whether your dlsym() needs a leading underscore ..." >&4
 $cat >dyna.c <<'EOM'
fred () { }
EOM

$cat >fred.c<<EOM

#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
```

```
#$i_dlfcn I_DLFCN
#ifdef I_DLFCN
#include <dlfcn.h>      /* the dynamic linker include file for SunOS/Solaris */
#else
#include <sys/types.h>
#include <nlist.h>
#include <link.h>
#endif

extern int fred() ;

int main()
{
   void * handle ;
   void * symbol ;
#ifndef RTLD_LAZY
   int mode = 1 ;
#else
   int mode = RTLD_LAZY ;
#endif
   handle = dlopen("./dyna.$dlext", mode) ;
   if (handle == NULL) {
 printf ("1\n") ;
 fflush (stdout) ;
 exit(0);
   }
   symbol = dlsym(handle, "fred") ;
   if (symbol == NULL) {
 /* try putting a leading underscore */
 symbol = dlsym(handle, "_fred") ;
 if (symbol ==
 NULL) {
     printf ("2\n") ;
     fflush (stdout) ;
     exit(0);
 }
 printf ("3\n") ;
   }
   else
 printf ("4\n") ;
   fflush (stdout) ;
   exit(0);
}
EOM
 : Call the object file tmp-dyna.o in case dlext=o.
 if $cc $ccflags $cccdlflags -c dyna.c > /dev/null 2>&1 &&
  mv dyna${_o} tmp-dyna${_o} > /dev/null 2>&1 &&
  $ld -o dyna.$dlext $ldflags $lddlflags tmp-dyna${_o} > /dev/null 2>&1 &&
```

```
  $cc -o fred $ccflags $ldflags $cccdlflags $ccdlflags fred.c $libs > /dev/null 2>&1 && $to dyna.$dlext; then
  xxx=`$run ./fred`
  case $xxx in
  1) echo "Test program failed using dlopen." >&4
   echo "Perhaps you should not use dynamic loading." >&4;;
  2) echo "Test program failed using dlsym." >&4
   echo "Perhaps you should not use dynamic loading." >&4;;
  3) echo "dlsym needs a leading underscore" >&4
   val="$define" ;;
  4) echo "dlsym doesn't need a leading underscore." >&4;;
  esac
 else
  echo "I can't compile and run the test program." >&4
             echo "I'm guessing that dlsym
 doesn't need a leading underscore." >&4
 fi
 ;;
esac

$rm -f fred fred.* dyna.$dlext dyna.* tmp-dyna.*

set d_dlsymun
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_dlsymun.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: intsize.U,v 3.0.1.2 1997/02/28 15:55:26 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: intsize.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:55:26  ram
?RCS: patch61: avoid prompting the user if the test runs ok
?RCS: patch61: moved code from longsize.U into there
?RCS: patch61: new tests for shortsize as well
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:21:06  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
```

```
?RCS: Revision 3.0  1993/08/18  12:08:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:intsize longsize
 shortsize: Compile Myread cat run i_stdlib rm_try
?MAKE: -pick add $@ %<
?S:intsize:
?S: This variable contains the value of the INTSIZE symbol, which
?S: indicates to the C program how many bytes there are in an int.
?S:.
?S:longsize:
?S: This variable contains the value of the LONGSIZE symbol, which
?S: indicates to the C program how many bytes there are in a long.
?S:.
?S:shortsize:
?S: This variable contains the value of the SHORTSIZE symbol which
?S: indicates to the C program how many bytes there are in a short.
?S:.
?C:INTSIZE:
?C: This symbol contains the value of sizeof(int) so that the C
?C: preprocessor can make decisions based on it.
?C:.
?C:LONGSIZE:
?C: This symbol contains the value of sizeof(long) so that the C
?C: preprocessor can make decisions based on it.
?C:.
?C:SHORTSIZE:
?C: This symbol contains the value of sizeof(short) so that the C
?C: preprocessor can make decisions based on it.
?C:.
?H:#define INTSIZE $intsize  /**/
?H:#define LONGSIZE $longsize  /**/
?H:#define
 SHORTSIZE $shortsize  /**/
?H:.
?F:!try
: check for lengths of integral types
echo " "
case "$intsize" in
")
 echo "Checking to see how big your integers are..." >&4
 $cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
```

```
{
@if INTSIZE || intsize
 printf("intsize=%d;\n", (int)sizeof(int));
@end
@if LONGSIZE || longsize
 printf("longsize=%d;\n", (int)sizeof(long));
@end
@if SHORTSIZE || shortsize
 printf("shortsize=%d;\n", (int)sizeof(short));
@end
 exit(0);
}
EOCP
 set try
 if eval $compile_ok && $run ./try > /dev/null; then
  eval `$run ./try`
@if INTSIZE || intsize
  echo "Your integers are $intsize bytes long."
@end
@if LONGSIZE || longsize
  echo "Your long integers are $longsize bytes long."
@end
@if SHORTSIZE || shortsize
  echo "Your short integers are $shortsize bytes long."
@end
 else
  $cat >&4 <<EOM
!
Help! I can't compile and run the intsize test program: please enlighten me!
(This is probably a misconfiguration
 in your system or libraries, and
you really ought to fix it.  Still, I'll try anyway.)
!
EOM
@if INTSIZE || intsize
  dflt=4
  rp="What is the size of an integer (in bytes)?"
  . ./myread
  intsize="$ans"
@end
@if LONGSIZE || longsize
  dflt=$intsize
  rp="What is the size of a long integer (in bytes)?"
  . ./myread
  longsize="$ans"
@end
@if SHORTSIZE || shortsize
  dflt=2
```

```
  rp="What is the size of a short integer (in bytes)?"
  . ./myread
  shortsize="$ans"
@end
 fi
 ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/a_dvisory/intsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setgrps.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setgrps.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setgrps: Inlibc
?MAKE: -pick add $@ %<
?S:d_setgrps:
?S: This variable conditionally defines the HAS_SETGROUPS symbol, which
?S: indicates to the C program that the setgroups() routine is available
?S: to set the list of process groups.
?S:.
?C:HAS_SETGROUPS:
?C: This symbol, if defined, indicates that the setgroups() routine is
?C: available
 to set the list of process groups.  If unavailable, multiple
?C: groups are probably not supported.
?C:.
?H:#$d_setgrps HAS_SETGROUPS  /**/
?H:.
?LINT:set d_setgrps
: see if setgroups exists
set setgroups d_setgrps
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setgrps.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2005-2007 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_libm_lib_version: Compile cat run rm_try
?MAKE: -pick add $@ %<
?S:d_libm_lib_version:
?S: This variable conditionally defines the LIBM_LIB_VERSION symbol,
?S: which indicates to the C program that math.h defines _LIB_VERSION
?S: being available in libm
?S:.
?C:LIBM_LIB_VERSION:
?C: This symbol, if defined, indicates that libm exports _LIB_VERSION
?C: and that math.h defines the enum to manipulate it.
?C:.
?H:#$d_libm_lib_version LIBM_LIB_VERSION  /**/
?H:.
?T:foo
?F:!try
: check to see if math.h defines _LIB_VERSION
d_libm_lib_version="$undef"
echo " "
echo "Checking to see if your libm supports _LIB_VERSION..." >&4
$cat >try.c <<EOCP
#include <unistd.h>
#include <math.h>
int main (int argc, char *argv[])
{
    printf ("%d\n", _LIB_VERSION);
   return (0);
   } /* main */
EOCP
set try
if eval $compile; then
   foo=`$run ./try`
   echo "Yes, it does ($foo)" >&4
   d_libm_lib_version="$define"
else
   echo "No, it does not (probably harmless)" >&4
   fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_libm_lib_version.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strerror.U,v 3.0.1.3 1994/05/13 15:20:27 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_strerror.U,v $
?RCS: Revision 3.0.1.3  1994/05/13  15:20:27  ram
?RCS: patch27: now uses new macro support for cleaner Strerror def
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  14:58:26  ram
?RCS: patch23: renamed strerror into Strerror to protect name space (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:08:56  ram
?RCS: patch16: protected code looking for sys_errnolist[] with @if
?RCS: patch16: added default value for d_sysernlst
?RCS:
?RCS: Revision
 3.0  1993/08/18  12:07:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_syserrlst d_sysernlst: Csym Findhdr
?MAKE: -pick add $@ %<
?S:d_syserrlst:
?S: This variable conditionally defines HAS_SYS_ERRLIST if sys_errlist[] is
?S: available to translate error numbers to strings.
?S:.
?S:d_sysernlst:
?S: This variable conditionally defines HAS_SYS_ERRNOLIST if sys_errnolist[]
?S: is available to translate error numbers to the symbolic name.
?S:.
?C:HAS_SYS_ERRLIST (SYSERRLIST):
?C: This symbol, if defined, indicates that the sys_errlist array is
?C: available to translate error numbers to strings. The extern int
?C: sys_nerr gives the size of that table.
?C:.
?C:HAS_SYS_ERRNOLIST (SYSERRNOLIST):
?C: This symbol, if defined, indicates that the sys_errnolist array is
?C: available to translate an errno code into its symbolic name (e.g.
```

```
?C: ENOENT). The extern int sys_nerrno gives the size of that table.
?C:.
?H:#$d_syserrlst HAS_SYS_ERRLIST /**/
?H:#$d_sysernlst HAS_SYS_ERRNOLIST /**/
?H:.
?D:d_sysernlst=''
?T:val
:
 see if sys_errlist[] exists
echo " "
if test "X$d_syserrlst" = X; then
 if set sys_errlist val -a d_syserrlst; eval $csym; $val; then
  echo "You have sys_errlist[], so we could roll our own strerror."
  d_syserrlst="$define"
 else
  echo "You don't have sys_errlist[], so strerror() is welcome."
  d_syserrlst="$undef"
 fi
fi
@if d_sysernlst || HAS_SYS_ERRNOLIST
if set sys_errnolist val -a d_sysernlst; eval $csym; $val; then
 echo "(Symbolic error codes can be fetched via the sys_errnolist[] array.)"
 d_sysernlst="$define"
else
 echo "(However, I can't extract the symbolic error code out of errno.)"
 d_sysernlst="$undef"
fi
@end
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_strerror.U
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```
?RCS: $Id: d_endnent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
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?RCS:
?RCS: $Log: d_endnent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:d_endnent: Inlibc
?MAKE: -pick add $@ %<
?S:d_endnent:
?S: This variable conditionally defines HAS_ENDNETENT if endnetent() is
?S: available to close whatever was being used for network queries.
?S:.
?C:HAS_ENDNETENT:
?C: This symbol, if defined, indicates that the endnetent() routine is
?C: available to close whatever was being used for network
 queries.
?C:.
?H:#$d_endnent HAS_ENDNETENT  /**/
?H:.
?LINT:set d_endnent
: see if endnetent exists
set endnetent d_endnent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_endnent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: shm_for.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: shm_for.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:28:37  ram
?RCS: patch36: call ./Cppsym explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:shm_for shm_att shm_lim: Cppsym Myread ipc uname
?MAKE: -pick add $@ %<
?S:shm_for:
?S: This variable tells us the type of machine we're expecting the
?S: shared memory code to run on.  The value is available to C
 programs
?S: in the C_SHM_FOR manifest.
?S:.
```

```
?S:shm_att:
?S: This variable tells us where a shared memory segment should be
?S: attached.  Good values are HIGH, LOW, and ZERO.
?S:.
?S:shm_lim:
?S: This variable tells us if shared memory attached HIGH should
?S: have an upper limit.
?S:.
?X: ----------------------------------------------------------
?X: It's a potential lose to define anything beginning with SHM...
?X: At least we can think that S_ stands for "String version of ..." -- HMS
?X: ----------------------------------------------------------
?C:S_SHM_FOR ~ %<:
?C: This symbol identifies what we chose for the target system's
?C: default shared memory configuration parameters.
?C:.
?C:S_SHM_ATT ~ %<:
?C: This symbol holds the default "place" to attach shared memory.
?C: Values are "HIGH", "ZERO", and "LOW".
?C:.
?C:S_SHM_LIM ~ %<:
?C: This symbol holds the default upper bound address limit if shared
?C: memory is attached HIGH.  If zero, there is no upper limit.
?C:.
?H:?%<:#ifdef
 SERVE_SHM
?H:?%<:#define S_SHM_FOR "$shm_for"
?H:?%<:#define S_SHM_ATT "$shm_att"
?H:?%<:#define S_SHM_LIM "$shm_lim"
?H:?%<:#endif
?H:.
?W:%<:S_SHM_FOR S_SHM_ATT S_SHM_LIM
: see how to attach shared memory
echo " "
echo "Deciding how to attach shared memory..." >&4

case "$ipc" in
shm)
 shm_for='Default case'
 shm_att='HIGH'
 shm_lim='0x0'
 if ./Cppsym tower32 tower32_600; then
  echo "NCR Towers are usually normal..."
  : echo "Oh, an NCR Tower."
  : This works for the 600
  shm_for='NCR Tower 32'
  shm_att='LOW'
 else
```

```
 case "$uname" in
 */uname)
  case "`uname -m`" in
  ACS??68*)
   echo "Oh, an Altos 3068."
   shm_for='Altos 3068:'
   shm_lim='0x800000'
   ;;
   esac
   ;;
 *)
  echo "Looks normal to me..."
  ;;
 esac
fi

dflt="$shm_for"
rp='Description of shared memory configuration?'
. ./myread
shm_for="$ans"

dflt="$shm_att"
rp='Where should shared memory be attached?'
. ./myread
shm_att="$ans"

case "$shm_att" in
HIGH)
 dflt="$shm_lim"
 rp='What is
the upper address limit for shared memory?'
 . ./myread
 shm_lim="$ans"
 ;;
*)
 shm_lim=''
 ;;
esac
;;

*)
 echo "but you aren't using shared memory so I won't bother." >&4
 shm_for='NOT CONFIGURED'
 shm_att='NONE'
 shm_lim='-1'
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/shm_for.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: randbits.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:19:29  ram
?RCS: patch61: added <unistd.h> and <stdlib.h> to the C program test
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:38  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit has been somewhat made obsolete with creation of the
?X: randfunc function (which finds out how to generate random
?X: numbers between 0 and 1.
?X:
?MAKE:randbits: cat rm Myread cc i_unistd i_stdlib
?MAKE: -pick add $@ %<
?S:randbits:
?S: This
 variable contains the eventual value of the RANDBITS symbol,
?S: which indicates to the C program how many bits of random number
?S: the rand() function produces.
?S:.
?C:RANDBITS:
?C: This symbol contains the number of bits of random number the rand()
?C: function produces.  Usual values are 15, 16, and 31.
?C:.
?H:#define RANDBITS $randbits  /**/
?H:.
: check for size of random number generator
echo " "
case "$randbits" in
")
 echo "Checking to see how many bits your rand function produces..." >&4
 $cat >try.c <<EOCP
#$i_unistd I_UNISTD
```

```
#$i_stdlib I_STDLIB
#include <stdio.h>
#ifdef I_UNISTD
#  include <unistd.h>
#endif
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
EOCP
 $cat >>try.c <<'EOCP'
int main()
{
 register int i;
 register unsigned long tmp;
 register unsigned long max = 0L;

 for (i = 1000; i; i--) {
  tmp = (unsigned long)rand();
  if (tmp > max) max = tmp;
 }
 for (i = 0; max; i++)
  max /= 2;
 printf("%d\n",i);
}
EOCP
 if $cc -o try try.c >/dev/null 2>&1 ; then
  dflt=`try`
 else
  dflt='?'
  echo
 "(I can't seem to compile the test program...)"
 fi
 ;;
*)
 dflt="$randbits"
 ;;
esac
rp='How many bits does your rand() function produce?'
. ./myread
randbits="$ans"
$rm -f try.c try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/randbits.U
No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_newlocale d_freelocale d_uselocale d_duplocale d_querylocale \
 i_xlocale xlocale_needed: Inlibc Inhdr Compile cat rm_try run \
 d_localeconv_l
?MAKE: -pick add $@ %<
?S:d_newlocale:
?S: This variable conditionally defines the HAS_NEWLOCALE symbol, which
?S: indicates to the C program that the newlocale() routine is available
?S: to return a new locale object or modify an existing locale object.
?S:.
?S:d_freelocale:
?S: This variable conditionally defines the HAS_FREELOCALE symbol, which
?S: indicates to the C program that the freelocale() routine is available
?S: to deallocates the resources associated with a locale object.
?S:.
?S:d_uselocale:
?S: This variable conditionally defines the HAS_USELOCALE symbol, which
?S: indicates to the C program that the uselocale()
 routine is available
?S: to set the current locale for the calling thread.
?S:.
?S:d_duplocale:
?S: This variable conditionally defines the HAS_DUPLOCALE symbol, which
?S: indicates to the C program that the duplocale() routine is available
?S: to duplicate a locale object.
?S:.
?S:d_querylocale:
?S: This variable conditionally defines the HAS_QUERYLOCALE symbol, which
?S: indicates to the C program that the querylocale() routine is available
?S: to return the name of the locale for a category mask.
?S:.
?S:i_xlocale:
?S: This symbol, if defined, indicates to the C program that the
?S: header xlocale.h is available.  See also xlocale_needed.
?S:.
?S:xlocale_needed:
?S: This symbol, if defined, indicates that the C program should
?S: include <xlocale.h> to get newlocale() and its friends.
?S:.
?C:HAS_NEWLOCALE:
?C: This symbol, if defined, indicates that the newlocale routine is
?C: available to return a new locale object or modify an existing
?C: locale object.
?C:.
?C:HAS_FREELOCALE:
?C: This
```

```
 symbol, if defined, indicates that the freelocale routine is
?C: available to deallocates the resources associated with a locale object.
?C:.
?C:HAS_USELOCALE:
?C: This symbol, if defined, indicates that the uselocale routine is
?C: available to set the current locale for the calling thread.
?C:.
?C:HAS_DUPLOCALE:
?C: This symbol, if defined, indicates that the duplocale routine is
?C: available to duplicate a locale object.
?C:.
?C:HAS_QUERYLOCALE:
?C: This symbol, if defined, indicates that the querylocale routine is
?C: available to return the name of the locale for a category mask.
?C:.
?C:I_XLOCALE:
?C: This symbol, if defined, indicates to the C program that the
?C: header xlocale.h is available.  See also NEED_XLOCALE_H
?C:.
?C:NEED_XLOCALE_H:
?C: This symbol, if defined, indicates that the C program should
?C: include <xlocale.h> to get newlocale() and its friends.
?C:.
?H:#$d_newlocale HAS_NEWLOCALE /**/
?H:#$d_freelocale HAS_FREELOCALE /**/
?H:#$d_uselocale HAS_USELOCALE /**/
?H:#$d_duplocale HAS_DUPLOCALE /**/
?H:#$d_querylocale HAS_QUERYLOCALE /**/
?H:#$xlocale_needed NEED_XLOCALE_H /**/
?H:#$i_xlocale I_XLOCALE
            /**/
?H:.
?LINT:set i_xlocale
?LINT:set d_newlocale
?LINT:set d_freelocale
?LINT:set d_uselocale
?LINT:set d_duplocale
?LINT:set d_querylocale
?F:!try
: see if this is an xlocale.h system
set xlocale.h i_xlocale
eval $inhdr

: see if newlocale exists
set newlocale d_newlocale
eval $inlibc

: see if freelocale exists
```

```
set freelocale d_freelocale
eval $inlibc

: see if uselocale exists
set uselocale d_uselocale
eval $inlibc

: see if duplocale exists
set duplocale d_duplocale
eval $inlibc

: see if querylocale exists
set querylocale d_querylocale
eval $inlibc

: if we have xlocale.h, check whether it is needed
case "$i_xlocale$d_newlocale$xlocale_needed" in
"$define$define")
 echo "Checking if xlocale.h is needed..." >&4
 $cat >try.c <<EOF
#include <locale.h>
#include <stdio.h>
#ifdef TRY_XLOCALE
#include <xlocale.h>
#endif
#$d_localeconv_l
 HAVE_LOCALECONV_L

#ifdef HAVE_LOCALECONV_L
struct lconv *(*lcptr)(locale_t) = localeconv_l;
#endif

int main(void) {
 locale_t lc = newlocale(LC_ALL_MASK, "C", (locale_t)0);

#ifdef HAVE_LOCALECONV_L
 /* FreeBSD hides only localeconv_l() in xlocale.h */
 struct lconv *lcbuf = localeconv_l(lc);
 printf("decimal: %s\n", lcbuf->decimal_point);
#endif

 freelocale(lc);
 return 0;
}
EOF
 set try
 if eval $compile && $run ./try > /dev/null 2>&1 ; then
  echo "xlocale.h isn't needed" >&4
```

```
  xlocale_needed=$undef
 else
  set try -DTRY_XLOCALE
  if eval $compile && $run ./try > /dev/null 2>&1 ; then
   xlocale_needed=$define
   echo "xlocale.h is needed" >&4
  else
   echo "I can't build my test either way" >&4
   xlocale_needed=$undef
  fi
 fi
 $rm_try
 ;;
*) xlocale_needed=$undef ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_newlocale.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
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?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fsync: Inlibc
?MAKE: -pick add $@ %<
?S:d_fsync:
?S: This variable conditionally defines the HAS_FSYNC symbol, which
?S: indicates to the C program that the fsync() routine is available.
?S:.
?C:HAS_FSYNC:
?C: This symbol, if defined, indicates that the fsync routine is
?C: available to write a file's modified data and attributes to
?C: permanent storage.
?C:.
?H:#$d_fsync HAS_FSYNC  /**/
?H:.
?LINT:set d_fsync
: see if fsync exists
set fsync d_fsync
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/perl/d_fsync.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_eofpipe.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:12:40  ram
?RCS: patch36: call ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_eofpipe: cat +cc +ccflags +libs rm Oldconfig Guess echo n c
?MAKE: -pick add $@ %<
?S:d_eofpipe:
?S: This variable conditionally defines the EOFPIPE symbol, which
?S: indicates to the C program that select will correctly detect the EOF
?S: condition when pipe
 is closed from the other end.
?S:.
?C:EOFPIPE:
?C: This symbol, if defined, indicates that EOF condition will be detected
?C: by the reader of the pipe when it is closed by the writing process.
?C: That is, a select() call on that file descriptor will not block when
?C: only an EOF remains (typical behaviour for BSD systems).
?C:.
?H:#$d_eofpipe EOFPIPE  /**/
?H:.
?F:!mpipe
: see if pipe correctly gives the EOF condition
echo " "
case "$d_eofpipe" in
")
 echo "Let's see if your pipes return EOF to select() upon closing..." >&4
 $cat >pipe.c <<'EOP'
int main()
{
 int pd[2];
 int mask;
```

```
 pipe(pd);
 if (0 == fork()) {
  close(pd[0]);
  close(pd[1]);
  exit(0);
 }

 close(pd[1]);
 mask = 1 << pd[0];
 alarm(2);
 select(32, &mask, (int *) 0, (int *) 0, (char *) 0);
 if (0 == read(pd[0], &mask, 1))
  exit(0);

 exit(1);
}
EOP
 if $cc $ccflags -o pipe pipe.c $libs >/dev/null 2>&1; then
?X: Use a script to avoid the possible 'alarm call' message
  echo "./pipe || exit 1" > mpipe
  chmod +x
 mpipe
  ./mpipe >/dev/null 2>&1
  case $? in
  0) d_eofpipe="$define";;
  *) d_eofpipe="$undef";;
  esac
 else
  echo "(The test program did not compile correctly -- Guessing.)"
  if ./bsd; then
   d_eofpipe="$define"
  else
   d_eofpipe="$undef"
  fi
 fi
 case "$d_eofpipe" in
 "$define") echo "Yes, they do.";;
 *) echo "No, they don't! (sigh)";;
 esac
 ;;
*)
 $echo $n "Your pipes $c"
 case "$d_eofpipe" in
 "$define") echo "allow select() to see EOF upon closing.";;
 *) echo "won't let select() see EOF on closing.";;
 esac
 ;;
esac
```

```
$rm -f *pipe* core
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_eofpipe.U
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: modetype.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:25:07  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:modetype: Myread Typedef
?MAKE: -pick add $@ %<
?S:modetype:
?S: This variable defines modetype to be something like mode_t,
?S: int, unsigned short, or whatever type is used to declare file
?S: modes for system calls.
?S:.
?C:Mode_t:
?C: This symbol holds the type used to declare file modes
?C: for systems calls.
  It is usually mode_t, but may be
?C: int or unsigned short.  It may be necessary to include <sys/types.h>
?C: to get any typedef'ed information.
?C:.
?H:#define Mode_t $modetype  /* file mode parameter for system calls */
?H:.
: see what type is used for mode_t
set mode_t modetype int stdio.h sys/types.h
eval $typedef
dflt="$modetype"
echo " "
rp="What type is used for file modes?"
. ./myread
modetype="$ans"
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/modetype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getpgrp.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:34:28  ram
?RCS: patch61: new USE_BSD_GETPGRP to detect the getpgrp() flavour
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getpgrp d_bsdgetpgrp: Guess Inlibc Setvar cat rm \
 +cc +ccflags +ldflags +libs i_unistd
?MAKE: -pick add $@ %<
?S:d_getpgrp:
?S: This variable conditionally defines HAS_GETPGRP if getpgrp() is
?S: available to get the current process group.
?S:.
?S:d_bsdgetpgrp:
?S: This
 variable conditionally defines USE_BSD_GETPGRP if
?S: getpgrp needs one arguments whereas USG one needs none.
?S:.
?C:HAS_GETPGRP (GETPGRP):
?C: This symbol, if defined, indicates that the getpgrp routine is
?C: available to get the current process group.
?C:.
?C:USE_BSD_GETPGRP:
?C: This symbol, if defined, indicates that getpgrp needs one
?C: arguments whereas USG one needs none.
?C:.
?H:#$d_getpgrp HAS_GETPGRP  /**/
?H:#$d_bsdgetpgrp USE_BSD_GETPGRP /**/
?H:.
?F:!set !set.c
?T:xxx
?LINT:set d_getpgrp d_bsdgetpgrp
```

```
: see if getpgrp exists
set getpgrp d_getpgrp
eval $inlibc

@if USE_BSD_GETPGRP || d_bsdgetpgrp
case "$d_getpgrp" in
"$define")
 echo " "
 echo "Checking to see which flavor of getpgrp is in use..."
 $cat >set.c <<EOP
#$i_unistd I_UNISTD
#include <sys/types.h>
#ifdef I_UNISTD
#  include <unistd.h>
#endif
int main()
{
 if (getuid() == 0) {
  printf("(I see you are running Configure as super-user...)\n");
  setuid(1);
 }
#ifdef TRY_BSD_PGRP
 if (getpgrp(1) ==
 0)
  exit(0);
#else
 if (getpgrp() > 0)
  exit(0);
#endif
 exit(1);
}
EOP
 if $cc -DTRY_BSD_PGRP $ccflags $ldflags -o set set.c $libs >/dev/null 2>&1
  && ./set
 then
  echo "You have to use getpgrp(pid) instead of getpgrp()." >&4
  val="$define"
 elif $cc $ccflags $ldflags -o set set.c $libs >/dev/null 2>&1 && ./set; then
  echo "You have to use getpgrp() instead of getpgrp(pid)." >&4
  val="$undef"
 else
  echo "I can't seem to compile and run the test program."
  if ./usg; then
   xxx="a USG one, i.e. you use getpgrp()."
  else
   # SVR4 systems can appear rather BSD-ish.
   case "$i_unistd" in
   $undef)
```

```
    xxx="a BSD one, i.e. you use getpgrp(pid)."
    val="$define"
    ;;
   $define)
    xxx="probably a USG one, i.e. you use getpgrp()."
    val="$undef"
    ;;
   esac
  fi
  echo "Assuming your getpgrp is $xxx" >&4
 fi
 ;;
*) val="$undef";;
esac
set d_bsdgetpgrp
eval $setvar
$rm -f set set.c
@end
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getpgrp.U
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```
?RCS: $Id$
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sysman.U,v $
?RCS: Revision 3.0.1.2  1994/06/20  07:08:43  ram
?RCS: patch30: now explicitly states that /usr/man/man1 is the default
?RCS: patch30: added /usr/local/man/man1 to the search list
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:13:50  ram
?RCS: patch10: added support for /local/man/man1 (WAD)
?RCS: patch10: added temporary syspath variable to cut down on line length
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:sysman: test
```

```
 Loc Oldconfig
?MAKE: -pick add $@ %<
?S:sysman:
?S: This variable holds the place where the manual is located on this
?S: system. It is not the place where the user wants to put his manual
?S: pages. Rather it is the place where Configure may look to find manual
?S: for unix commands (section 1 of the manual usually). See mansrc.
?S:.
?T:syspath
: determine where manual pages are on this system
echo " "
case "$sysman" in
")
 syspath='/usr/share/man/man1 /usr/man/man1'
 syspath="$syspath /usr/man/mann /usr/man/manl /usr/man/local/man1"
 syspath="$syspath /usr/man/u_man/man1 /usr/share/man/man1"
 syspath="$syspath /usr/catman/u_man/man1 /usr/man/l_man/man1"
 syspath="$syspath /usr/local/man/u_man/man1 /usr/local/man/l_man/man1"
 syspath="$syspath /usr/man/man.L /local/man/man1 /usr/local/man/man1"
 sysman=`./loc . /usr/man/man1 $syspath`
 ;;
esac
if $test -d "$sysman"; then
 echo "System manual is in $sysman." >&4
else
 echo "Could not find manual pages in source form." >&4
fi

Found
 in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
5.36.0/dist/U/sysman.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_inetd.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_inetd.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:23  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:d_inetd: cat test package Myread Setvar
?MAKE: -pick add $@ %<
?S:d_inetd:
?S: This symbol conditionally defines USE_INETD which indicates to the C
?S: program that the initial socket connection will be done via inetd.
?S:.
?C:USE_INETD (INETD):
?C: This symbol if defined indicates to the C program that inetd will be
?C: in charge of the
 initial socket connection. The file descriptors 0 and
?C: 1 have been dup()ed from the original connected socket descriptor and
?C: are ready for send() and recv().
?C:.
?H:#$d_inetd USE_INETD  /**/
?H:.
?LINT:set d_inetd
: ask whether initial socket connection is to be done via inetd
echo " "
dflt=n
case "$d_inetd" in
") if $test -f /etc/inetd.conf; then
  $cat <<EOM
Your system provides a so called "Internet super-server", the inetd daemon.
Network services like ftp or rlogin are usually handled via ftpd and rlogind
daemons. Without inetd, these daemons must always be running for the service
to be on. On the contrary, inetd listens to specific ports defined in file
/etc/inetd.conf and will run the appropriate daemon upon request. This scheme
avoids eating up the process table and memory with useless daemons.

I can set up things so that internet connections for $package will be done
using inetd, in which case you will have to edit /etc/inetd.conf to add some
specific informations.

EOM
  dflt=y
 else
  $cat
 <<EOM
I do not see any trace of a configuration file for inetd, hence I assume your
system does not support the so called "Internet super-server". This means
$package will need to have a daemon process running on this machine to allow
network connections.

EOM
 fi;;
*) case "$d_inetd" in
 "$define") dflt=y;;
 esac;;
```

```
esac
rp='Do you wish to use inetd for network connections?'
. ./myread
val="$undef"
case "$ans" in
y*|Y*) val="$define";;
esac
set d_inetd
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_inetd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_PORTAR.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_PORTAR.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:08:42  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:40  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_PORTAR: cat +cc rm Setvar
?MAKE: -pick add $@ %<
?S:d_PORTAR:
?S: This variable conditionally handles definition of PORTAR,
?S: a creation of greater minds than I can imagine.
?S:.
?C:PORTAR:
?C: This manifest constant must
 be defined to 1 for some implementations
?C: of ar.h to get the portable ar most everybody uses.
?C:.
?L:ar_fmag:
?L:ARFMAG:
?L:SARMAG:
?H:#$d_PORTAR PORTAR 1 /**/
?H:.
```

```
?F:!portar
?LINT:set d_PORTAR
: see if we need to define PORTAR
echo " "
echo 'Checking to see if we need to define PORTAR for portable archives...' >&4
$cat >portar.c <<'EOCP'
#include <ar.h>
int main() {
 char *arfmag = ARFMAG;
 int sarmag = SARMAG;
 struct ar_hdr arh;

 strncpy(arh.ar_fmag, arfmag, 2);

#ifdef PORTAR
 printf("D\n");
#else
 printf("U\n");
#endif
 exit(0);}
EOCP
if $cc -o portar portar.c >/dev/null 2>&1 || \
 $cc -DPORTAR=1 -o portar portar.c >/dev/null 2>&1 ; then
 case "`./portar`" in
 D)
  val="$define"
  echo "We'll be defining PORTAR for you."
  ;;
 U)
  val="$undef"
  echo "We don't seem to need PORTAR defined here."
  ;;
 *)
  val="$define"
  echo "(My test program gave me an unexpected value!)"
  echo "I'll just define PORTAR to be sure."
  ;;
 esac
else
 echo "(Strange, I couldn't get my test
 program to compile.)"
 echo "We'll just define PORTAR in this case."
 val="$define"
fi
set d_PORTAR
eval $setvar
$rm -f portar*
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_PORTAR.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_euc2jis.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_euc2jis.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_euc2jis: Inlibc
?MAKE: -pick add $@ %<
?S:d_euc2jis:
?S: This variable conditionally defines the HAS_EUC2JIS symbol, which
?S: indicates to the C program that the euc2jis() routine is available
?S: to convert EUC to JIS.
?S:.
?C:HAS_EUC2JIS:
?C: This symbol, if defined, indicates that the euc2jis routine is
?C: available to convert
 EUC to JIS.
?C:.
?H:#$d_euc2jis HAS_EUC2JIS  /**/
?H:.
?LINT:set d_euc2jis
: see if euc2jis exists
set euc2jis d_euc2jis
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_euc2jis.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strcoll.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_strcoll.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:12:01  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_strcoll: Inlibc
?MAKE: -pick add $@ %<
?S:d_strcoll:
?S: This variable conditionally defines HAS_STRCOLL if strcoll() is
?S: available to compare strings using collating information.
?S:.
?C:HAS_STRCOLL:
?C: This symbol, if defined, indicates that the strcoll routine
 is
?C: available to compare strings using collating information.
?C:.
?H:#$d_strcoll HAS_STRCOLL /**/
?H:.
?LINT:set d_strcoll
: see if strcoll exists
set strcoll d_strcoll
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strcoll.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_lround: Inlibc
?MAKE: -pick add $@ %<
?S:d_lround:
?S: This variable conditionally defines the HAS_LROUND symbol, which
?S: indicates to the C program that the lround() routine is available
?S: to return the integral value nearest to x.
?S:.
?C:HAS_LROUND:
?C: This symbol, if defined, indicates that the lround routine is
?C: available to return the nearest integral value.
?C:.
```

```
?H:#$d_lround HAS_LROUND  /**/
?H:.
?LINT:set d_lround
: see if lround exists
set lround d_lround
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_lround.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_grp.U,v 3.0 1993/08/18 12:08:20 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: GRPASSWD detection added by Andy Dougherty  July 14, 1998.
?RCS:
?RCS: $Log: i_grp.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:20  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_grp d_grpasswd: \
 contains rm cppstdin cppflags cppminus Inhdr Findhdr Setvar
?MAKE: -pick add $@ %<
?S:i_grp:
?S: This variable conditionally defines the I_GRP symbol, and indicates
?S: whether a C program should include <grp.h>.
?S:.
?S:d_grpasswd:
?S: This variable conditionally
 defines GRPASSWD, which indicates
?S: that struct group in <grp.h> contains gr_passwd.
?S:.
?C:I_GRP:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <grp.h>.
?C:.
?C:GRPASSWD:
?C: This symbol, if defined, indicates to the C program that struct group
?C: in <grp.h> contains gr_passwd.
?C:.
```

```
?H:#$i_grp I_GRP  /**/
?H:#$d_grpasswd GRPASSWD /**/
?H:.
?LINT:set i_grp d_grpasswd
?T: xxx
: see if this is an grp system
set grp.h i_grp
eval $inhdr

case "$i_grp" in
$define)
 xxx=`./findhdr grp.h`
 $cppstdin $cppflags $cppminus < $xxx >$$.h

 if $contains 'gr_passwd' $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_grpasswd
 eval $setvar

 $rm -f $$.h
 ;;
*)
 val="$undef";
 set d_grpasswd; eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_grp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sitecustomize.U,v $
?RCS:
?RCS: Copyright (c) 2005-2006 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_sitecustomize.U,v $
?RCS:
?MAKE:usesitecustomize: Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:usesitecustomize:
?S: This variable is set to true when the user requires a mechanism that
```

```
?S: allows the sysadmin to add entries to @INC at runtime.  This variable
?S: being set, makes perl run '$sitelib/sitecustomize.pl' at startup.
?S:.
?C:USE_SITECUSTOMIZE:
?C: This symbol, if defined, indicates that sitecustomize should
?C: be used.
?C:.
?H:?%<:@if USE_SITECUSTOMIZE
?H:?%<:#ifndef USE_SITECUSTOMIZE
?H:?%<:#$usesitecustomize USE_SITECUSTOMIZE  /**/
?H:?%<:#endif
?H:?%<:@end
?H:.
: Check if site customization support was requested
case "$usesitecustomize" in
   $define|true|[Yy]*)
 usesitecustomize="$define"
 ;;
    *)
 usesitecustomize="$undef"
 ;;
   esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_sitecustomize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libyacc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libyacc.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  16:09:19  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.3  1994/05/13  15:27:12  ram
?RCS: patch27: added byacc case (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:09:01  ram
?RCS: patch23: now uses full library path instead of -l notation
?RCS:
```

```
?RCS: Revision 3.0.1.1  1994/01/24  14:13:49  ram
?RCS: patch16: un-obsoleted this unit for smooth yacc compilations
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:09:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libyacc: Loc yacc libpth _a
?MAKE: -pick add $@ %<
?S:libyacc:
?S: This variable contains the argument to pass to the loader in order
?S: to get the yacc library routines.  If there is no yacc or yacc
?S: library, it is null.
?S:.
?T:xxx
: see if we should include -ly
echo " "
case "$yacc" in
*byacc*)
 echo "You are using byacc, so I won't look for a yacc library." >&4
 libyacc=''
 ;;
*yacc)
 xxx=`./loc liby$_a x $libpth`
 case "$xxx" in
 x)
  echo "No yacc library found." >&4
  libyacc=''
  ;;
 *)
  echo "yacc library found in $xxx." >&4
  libyacc="$xxx"
  ;;
 esac
 ;;
*bison*)
 echo "You are using bison, so I won't look for a yacc library." >&4
 libyacc=''
 ;;
*)
echo "You don't seem to have yacc, so I won't look for the yacc library." >&4
 libyacc=''
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/libyacc.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getsrvby.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getsbyname d_getsbyport: Inlibc
?MAKE: -pick add $@ %<
?S:d_getsbyname:
?S: This variable conditionally defines the HAS_GETSERVBYNAME
?S: symbol, which indicates to the C program that the
?S: getservbyname() routine is available to look up services
?S: by their name.
?S:.
?S:d_getsbyport:
?S: This variable conditionally defines the HAS_GETSERVBYPORT
?S: symbol, which indicates to the C program that the
?S: getservbyport() routine is available to look up services
?S: by their port.
?S:.
?C:HAS_GETSERVBYNAME:
?C: This symbol, if defined, indicates that the getservbyname()
?C: routine is available to look up services by their name.
?C:.
?C:HAS_GETSERVBYPORT:
?C: This symbol, if defined,
 indicates that the getservbyport()
?C: routine is available to look up services by their port.
?C:.
?H:#$d_getsbyname HAS_GETSERVBYNAME  /**/
?H:#$d_getsbyport HAS_GETSERVBYPORT  /**/
?H:.
?LINT:set d_getsbyname d_getsbyport
: Optional checks for getsbyname and getsbyport

@if d_getsbyname || HAS_GETSERVBYNAME
: see if getservbyname exists
set getservbyname d_getsbyname
eval $inlibc
@end

@if d_getsbyport || HAS_GETSERVBYPORT
: see if getservbyport exists
set getservbyport d_getsbyport
eval $inlibc
```

@end

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_getsrvby.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_scalbn: Inlibc
?MAKE: -pick add $@ %<
?S:d_scalbn:
?S: This variable conditionally defines the HAS_SCALBN symbol, which
?S: indicates to the C program that the scalbn() routine is available.
?S:.
?C:HAS_SCALBN:
?C: This symbol, if defined, indicates that the scalbn routine is
?C: available to multiply floating-point number by integral power
?C: of radix.
?C:.
?H:#$d_scalbn HAS_SCALBN  /**/
?H:.
?LINT:set d_scalbn
: see if scalbn exists
set scalbn d_scalbn
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_scalbn.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2017 Dagfinn Ilmari Mannsåker
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strnlen: Inlibc
?MAKE: -pick add $@ %<
?S:d_strnlen:
?S: This variable conditionally defines the HAS_STRNLEN symbol, which
?S: indicates to the C program that the strnlen () routine is available.
?S:.
?C:HAS_STRNLEN:
?C: This symbol, if defined, indicates that the strnlen () routine is
```

```
?C: available to check the length of a string up to a maximum.
?C:.
?H:#$d_strnlen HAS_STRNLEN  /**/
?H:.
?LINT:set d_strnlen
: see if strnlen exists
set strnlen d_strnlen
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strnlen.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vaproto.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Orginal Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: vaproto.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:17:16  ram
?RCS: patch16: definition of _V now appears only when needed
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:59  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:vaproto: prototype i_stdarg Setvar
?MAKE: -pick add $@ %<
?S:vaproto:
?S: This variable conditionally defines CAN_VAPROTO on systems supporting
?S: prototype
 declaration of functions with a variable number of
?S: arguments. See also prototype.
?S:.
?C:CAN_VAPROTO ~ %<:
?C: This variable is defined on systems supporting prototype declaration
?C: of functions with a variable number of arguments.
?C:.
?C:_V:
?C: This macro is used to declare function parameters in prototypes for
?C: functions with a variable number of parameters. Use double parentheses.
```

```
?C: For example:
?C:
?C:  int printf _V((char *fmt, ...));
?C:
?C: Remember to use the plain simple _() macro when declaring a function
?C: with no variable number of arguments, since it might be possible to
?C: have a non-effect _V() macro and still get prototypes via _().
?C:.
?H:?%<:#$vaproto CAN_VAPROTO /**/
?H:?_V:#ifdef CAN_VAPROTO
?H:?_V:#define _V(args) args
?H:?_V:#else
?H:?_V:#define _V(args) ()
?H:?_V:#endif
?H:.
?LINT:set vaproto
: see if prototypes support variable argument declarations
echo " "
case "$prototype$i_stdarg" in
$define$define)
 echo "It appears we'll be able
 to prototype varargs functions." >&4
 val="$define"
 ;;
*)
 echo "Too bad... We won't be using prototyped varargs functions..." >&4
 val="$undef"
 ;;
esac
set vaproto
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/vaproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Tr.U,v 3.0.1.2 1994/10/29 18:00:54 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Tr.U,v $
```

```
?RCS: Revision 3.0.1.2  1994/10/29  18:00:54  ram
?RCS: patch43: forgot to quote $@ to protect against "evil" characters
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:58:35  ram
?RCS: patch36: created
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to do a character translation. It catches translations to uppercase or
?X: to lowercase, and then invokes the real tr to perform the job.
?X:
?X: This unit is necessary
 on HP machines (HP strikes again!) with non-ascii
?X: ROMAN8-charset, where normal letters are not arranged in a row, so a-z
?X: covers not the whole alphabet but lots of special chars. This was reported
?X: by Andreas Sahlbach <a.sahlbach@tu-bs.de>.
?X:
?X: Units performing a tr '[A-Z]' '[a-z]' or the other way round should include
?X: us in their dependency and use ./tr instead.
?X:
?MAKE:Tr: startsh tr eunicefix
?MAKE: -pick add $@ %<
?F:./tr
?T:up low
: see whether [:lower:] and [:upper:] are supported character classes
echo " "
case "`echo AbyZ | $tr '[:lower:]' '[:upper:]' 2>/dev/null`"-"`echo AbyZ | $tr '[:upper:]' '[:lower:]' 2>/dev/null`" in
ABYZ-abyz)
 echo "Good, your tr supports [:lower:] and [:upper:] to convert case." >&4
 up='[:upper:]'
 low='[:lower:]'
 ;;
*) # There is a discontinuity in EBCDIC between 'R' and 'S'
 # (0xd9 and 0xe2), therefore that is a nice testing point.
 if test "X$up" = X -o "X$low" = X; then
    case "`echo RS | $tr '[R-S]' '[r-s]' 2>/dev/null`"
 in
    rs) up='[A-Z]'
  low='[a-z]'
  ;;
    esac
 fi
 if test "X$up" = X -o "X$low" = X; then
    case "`echo RS | $tr R-S r-s 2>/dev/null`" in
    rs) up='A-Z'
  low='a-z'
  ;;
    esac
```

```
 fi
 if test "X$up" = X -o "X$low" = X; then
    case "`echo RS | od -x 2>/dev/null`" in
    *D9E2*|*d9e2*)
  echo "Hey, this might be EBCDIC." >&4
  if test "X$up" = X -o "X$low" = X; then
     case "`echo RS | $tr '[A-IJ-RS-Z]' '[a-ij-rs-z]' 2>/dev/null`" in
     rs) up='[A-IJ-RS-Z]'
   low='[a-ij-rs-z]'
   ;;
     esac
  fi
  if test "X$up" = X -o "X$low" = X; then
     case "`echo RS | $tr A-IJ-RS-Z a-ij-rs-z 2>/dev/null`" in
     rs) up='A-IJ-RS-Z'
   low='a-ij-rs-z'
   ;;
     esac
  fi
  ;;
    esac
 fi
esac
case "`echo RS | $tr \"$up\" \"$low\" 2>/dev/null`" in
rs)
   echo "Using $up and $low to convert case." >&4
   ;;
*)
   echo "I don't know how to translate letters from upper to lower case." >&4
   echo "Your tr is not acting any way I know of." >&4
   exit 1
   ;;
esac
:
 set up the translation script tr, must be called with ./tr of course
cat >tr <<EOSC
$startsh
case "\$1\$2" in
'[A-Z][a-z]') exec $tr '$up' '$low';;
'[a-z][A-Z]') exec $tr '$low' '$up';;
esac
exec $tr "\$@"
EOSC
chmod +x tr
$eunicefix tr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/modified/Tr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_malloc.U,v 3.5 2008/03/29 14:06:51 merijn Exp $
?RCS:
?RCS: Copyright (c) 2008, H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.5.
?RCS:
?MAKE:i_mallocmalloc: Inhdr
?MAKE: -pick add $@ %<
?S:i_mallocmalloc:
?S: This variable conditionally defines the I_MALLOCMALLOC symbol,
?S: and indicates whether a C program should include <malloc/malloc.h>.
?S:.
?C:I_MALLOCMALLOC:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <malloc/malloc.h>.
?C:.
?H:#$i_mallocmalloc I_MALLOCMALLOC  /**/
?H:.
?LINT:set i_mallocmalloc
: see if malloc/malloc.h has to be included
set malloc/malloc.h i_mallocmalloc
eval
 $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_mallocmalloc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_lockf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
```

```
?RCS: $Log: d_lockf.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:09:36  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_lockf: Inlibc
?MAKE: -pick add $@ %<
?S:d_lockf:
?S: This variable conditionally defines HAS_LOCKF if lockf() is
?S: available to do file locking.
?S:.
?C:HAS_LOCKF (LOCKF):
?C: This symbol, if defined, indicates that the lockf routine is
?C: available to do file locking.
?C:.
?H:#$d_lockf
 HAS_LOCKF  /**/
?H:.
?LINT:set d_lockf
: see if lockf exists
set lockf d_lockf
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_lockf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: selecttype.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:20:09  ram
?RCS: patch61: always include <sys/select.h> when available for test
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  14:14:06  ram
?RCS: patch56: removed harmful spaces in assignment
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:06:31  ram
?RCS: patch30: created by ADO
```

```
?RCS:
?MAKE:selecttype: cat +cc +ccflags rm Oldconfig Myread \
 d_fd_set d_select d_socket i_systime
 i_sysselct
?MAKE: -pick add $@ %<
?S:selecttype:
?S: This variable holds the type used for the 2nd, 3rd, and 4th
?S: arguments to select.  Usually, this is 'fd_set *', if HAS_FD_SET
?S: is defined, and 'int *' otherwise.  This is only useful if you
?S: have select(), naturally.
?S:.
?C:Select_fd_set_t:
?C: This symbol holds the type used for the 2nd, 3rd, and 4th
?C: arguments to select.  Usually, this is 'fd_set *', if HAS_FD_SET
?C: is defined, and 'int *' otherwise.  This is only useful if you
?C: have select(), of course.
?C:.
?H:#define Select_fd_set_t  $selecttype /**/
?H:.
?T:xxx yyy
: check for type of arguments to select.  This will only really
: work if the system supports prototypes and provides one for
: select.
case "$d_select" in
$define)
 : Make initial guess
 case "$selecttype" in
 "|' ')
  case "$d_fd_set" in
  $define) xxx='fd_set *' ;;
  *) xxx='int *' ;;
  esac
  ;;
 *)  xxx="$selecttype"
  ;;
 esac
 : backup guess
 case "$xxx" in
 'fd_set *') yyy='int *'
 ;;
 'int *') yyy='fd_set *' ;;
 esac

 $cat <<EOM

Checking to see what type of arguments are expected by select().
EOM
 $cat >try.c <<EOCP
```

```
#$i_systime I_SYS_TIME
#$i_sysselct I_SYS_SELECT
#$d_socket HAS_SOCKET
#include <sys/types.h>
#ifdef HAS_SOCKET
#include <sys/socket.h> /* Might include <sys/bsdtypes.h> */
#endif
#ifdef I_SYS_TIME
#include <sys/time.h>
#endif
#ifdef I_SYS_SELECT
#include <sys/select.h>
#endif
int main()
{
 int width;
 Select_fd_set_t readfds;
 Select_fd_set_t writefds;
 Select_fd_set_t exceptfds;
 struct timeval timeout;
 select(width, readfds, writefds, exceptfds, &timeout);
 exit(0);
}
EOCP
 if $cc $ccflags -c -DSelect_fd_set_t="$xxx" try.c >/dev/null 2>&1 ; then
  selecttype="$xxx"
  echo "Your system uses $xxx for the arguments to select." >&4
 elif $cc $ccflags -c -DSelect_fd_set_t="$yyy" try.c >/dev/null 2>&1 ; then
  selecttype="$yyy"
  echo "Your system uses $yyy for the arguments to select." >&4
 else
  rp='What is the type for the 2nd, 3rd, and 4th arguments
 to select?'
  dflt="$xxx"
  . ./myread
  selecttype="$ans"
 fi
 $rm -f try.[co]
 ;;
*) selecttype='int *'
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/selecttype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Compile.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS:
?X:
?X: This unit is just a quick shorthand for the compile command
?X: to be used in all the other metaconfig units.
?X:
?MAKE:Compile: +cc +optimize +ccflags +ldflags +libs test
?MAKE: -pick wipe $@ %<
?LINT:extern usedevel maintloc
?LINT:define compile compile_ok
?V:compile compile_ok mc_file
?S:compile:
?S: This shell variable is used internally by Configure to provide
?S: a convenient shorthand for the typical compile command, namely
?S: $cc $optimize $ccflags $ldflags -o $1 $1.c $libs > /dev/null 2>&1
?S: Note that the output filename does _not_ include the _exe
?S: extension.  Instead we assume that the linker will be
?S: "helpful" and automatically appending the correct suffix.
?S: OS/2
 users will apparently need to supply the -Zexe flag to
?S: get this behavior.
?S:
?S: To use this variable, say something like:
?S:  echo 'int main() { exit(0); }' > try.c
?S:  set try
?S:  if eval $compile; then
?S:   echo "success"   # and do whatever . . .
?S:  else
?S:   echo "failure"   # and do whatever . . .
?S:  fi
?S: To add extra flags cc flags (e.g. -DWHATEVER) just put them
?S: in $*, e.g.
?S:  set try -DTRY_THIS_FLAG
?S:.
?S:compile_ok:
?S: This shell variable is used internally by Configure to provide
?S: a convenient shorthand for the typical compile command that you
?S: expect to work ok.  It is the same as $compile, except we
?S: deliberately let the user see any error messages.
?S:.
: define a shorthand compile call
compile='
```

```
mc_file=$1;
shift;
case "$usedevel" in $define|true|[yY]*) if $test ! -f "${mc_file}.c"; then
echo "Internal Configure script bug - compiler test file ${mc_file}.c is missing. Please report this to <$maintloc>"
>&4;
exit 1;
fi;
esac;
$cc
 -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs > /dev/null 2>&1;'
: define a shorthand compile call for compilations that should be ok.
compile_ok='
mc_file=$1;
shift;
$cc -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs > /dev/null 2>&1;'
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/Compile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_localeconv_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_localeconv_l:
?S: This variable conditionally defines the HAS_LOCALECONV_L symbol, which
?S: indicates to the C program that the localeconv_l() routine is available.
?S:.
?C:HAS_LOCALECONV_L:
?C: This symbol, if defined, indicates that the localeconv_l routine is
?C: available to query certain information about a locale.
?C:.
?H:#$d_localeconv_l HAS_LOCALECONV_L  /**/
?H:.
?LINT:set d_localeconv_l
: see if localeconv_l exists
set localeconv_l d_localeconv_l
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_localeconv_l.U

No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2016 Dagfinn Ilmari Mannsker & H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_siginfo_si_errno d_siginfo_si_pid d_siginfo_si_uid d_siginfo_si_addr d_siginfo_si_status
d_siginfo_si_band d_siginfo_si_value d_siginfo_si_fd: d_sigaction pidtype uidtype Hasfield_t
?MAKE: -pick add $@ %<
?S:d_siginfo_si_errno:
?S: This variable conditionally defines the HAS_SIGINFO_SI_ERRNO symbol,
?S: which indicates that the siginfo_t struct has the si_errno member.
?S:.
?S:d_siginfo_si_pid:
?S: This variable conditionally defines the HAS_SIGINFO_SI_PID symbol,
?S: which indicates that the siginfo_t struct has the si_pid member.
?S:.
?S:d_siginfo_si_uid:
?S: This variable conditionally defines the HAS_SIGINFO_SI_UID symbol,
?S: which indicates that the siginfo_t struct has the si_uid member.
?S:.
?S:d_siginfo_si_addr:
?S: This
 variable conditionally defines the HAS_SIGINFO_SI_ADDR symbol,
?S: which indicates that the siginfo_t struct has the si_addr member.
?S:.
?S:d_siginfo_si_status:
?S: This variable conditionally defines the HAS_SIGINFO_SI_STATUS symbol,
?S: which indicates that the siginfo_t struct has the si_status member.
?S:.
?S:d_siginfo_si_band:
?S: This variable conditionally defines the HAS_SIGINFO_SI_BAND symbol,
?S: which indicates that the siginfo_t struct has the si_band member.
?S:.
?S:d_siginfo_si_value:
?S: This variable conditionally defines the HAS_SIGINFO_SI_VALUE symbol,
?S: which indicates that the siginfo_t struct has the si_value member.
?S:.
?S:d_siginfo_si_fd:
?S: This variable conditionally defines the HAS_SIGINFO_SI_FD symbol,
?S: which indicates that the siginfo_t struct has the si_fd member.
?S:.
?C:HAS_SIGINFO_SI_ERRNO:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_errno member
?C:.
?C:HAS_SIGINFO_SI_PID:
```

```
?C: This
 symbol, if defined, indicates that siginfo_t has the
?C: si_pid member
?C:.
?C:HAS_SIGINFO_SI_UID:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_uid member
?C:.
?C:HAS_SIGINFO_SI_ADDR:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_addr member
?C:.
?C:HAS_SIGINFO_SI_STATUS:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_status member
?C:.
?C:HAS_SIGINFO_SI_BAND:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_band member
?C:.
?C:HAS_SIGINFO_SI_VALUE:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_value member
?C:.
?C:HAS_SIGINFO_SI_FD:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_fd member
?C:.
?H:#$d_siginfo_si_errno HAS_SIGINFO_SI_ERRNO /**/
?H:#$d_siginfo_si_pid HAS_SIGINFO_SI_PID /**/
?H:#$d_siginfo_si_uid HAS_SIGINFO_SI_UID /**/
?H:#$d_siginfo_si_addr HAS_SIGINFO_SI_ADDR /**/
?H:#$d_siginfo_si_status HAS_SIGINFO_SI_STATUS /**/
?H:#$d_siginfo_si_band HAS_SIGINFO_SI_BAND /**/
?H:#$d_siginfo_si_value HAS_SIGINFO_SI_VALUE /**/
?H:#$d_siginfo_si_fd HAS_SIGINFO_SI_FD /**/
?H:.
:
 see what siginfo fields we have
case "$d_sigaction" in
"$define")
 echo "Checking if your siginfo_t has si_errno field..."">&4
 set d_siginfo_si_errno siginfo_t int si_errno $d_sigaction signal.h
 eval $hasfield_t;

 echo "Checking if your siginfo_t has si_pid field..."">&4
 set d_siginfo_si_pid siginfo_t $pidtype si_pid $d_sigaction signal.h
 eval $hasfield_t;
```

```
 echo "Checking if your siginfo_t has si_uid field...">&4
 set d_siginfo_si_uid siginfo_t $uidtype si_uid $d_sigaction signal.h
 eval $hasfield_t;

 echo "Checking if your siginfo_t has si_addr field...">&4
 set d_siginfo_si_addr siginfo_t "void *" si_addr $d_sigaction signal.h
 eval $hasfield_t;

 echo "Checking if your siginfo_t has si_status field...">&4
 set d_siginfo_si_status siginfo_t int si_status $d_sigaction signal.h
 eval $hasfield_t;

 echo "Checking if your siginfo_t has si_band field...">&4
 set
 d_siginfo_si_band siginfo_t long si_band $d_sigaction signal.h
 eval $hasfield_t;

 echo "Checking if your siginfo_t has si_value field...">&4
 set d_siginfo_si_value siginfo_t "union sigval" si_value $d_sigaction signal.h
 eval $hasfield_t;

 echo "Checking if your siginfo_t has si_fd field...">&4
 set d_siginfo_si_fd siginfo_t int si_fd $d_sigaction signal.h
 eval $hasfield_t;

 ;;
*)
 d_siginfo_si_errno="$undef"
 d_siginfo_si_pid="$undef"
 d_siginfo_si_uid="$undef"
 d_siginfo_si_addr="$undef"
 d_siginfo_si_status="$undef"
 d_siginfo_si_band="$undef"
 d_siginfo_si_value="$undef"
 d_siginfo_si_fd="$undef"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_siginfo_si.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: scandir.C,v 3.0.1.1 1994/01/24 13:58:45 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* $Log: scandir.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:45  ram
* patch16: created
*
*/
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/lib/C/fake/scandir.C
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_mprotect: Inlibc
?MAKE: -pick add $@ %<
?S:d_mprotect:
?S: This variable conditionally defines HAS_MPROTECT if mprotect() is
?S: available to modify the access protection of a memory mapped file.
?S:.
?C:HAS_MPROTECT:
?C: This symbol, if defined, indicates that the mprotect system call is
?C: available to modify the access protection of a memory mapped file.
?C:.
?H:#$d_mprotect HAS_MPROTECT  /**/
?H:.
?LINT:set d_mprotect
: see if mprotect exists
set mprotect d_mprotect
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_mprotect.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: gidtype.U,v $
?RCS: Revision 3.0.1.3  1994/08/29  16:21:44  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS: patch32: removed useless usage of Setvar (for now)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:21:07  ram
?RCS: patch27: added lint hint
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:01:51  ram
?RCS: patch23: protected gidtype setting via setvar (ADO)
?RCS: patch23: made Gid_t comment more explicit (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:11  ram
?RCS:
 Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:gidtype: Myread Typedef Findhdr
?MAKE: -pick add $@ %<
?S:gidtype:
?S: This variable defines Gid_t to be something like gid_t, int,
?S: ushort, or whatever type is used to declare the return type
?S: of getgid().  Typically, it is the type of group ids in the kernel.
?S:.
?C:Gid_t (GIDTYPE):
?C: This symbol holds the return type of getgid() and the type of
?C: argument to setrgid() and related functions.  Typically,
?C: it is the type of group ids in the kernel. It can be int, ushort,
?C: uid_t, etc... It may be necessary to include <sys/types.h> to get
?C: any typedef'ed information.
?C:.
?H:#define Gid_t $gidtype  /* Type for getgid(), etc... */
?H:.
?T:xxx
: see what type gids are declared as in the kernel
set gid_t gidtype xxx stdio.h sys/types.h
eval $typedef
```

```
case "$gidtype" in
xxx)
 xxx=`./findhdr sys/user.h`
 set `grep 'groups\[NGROUPS\];' "$xxx" 2>/dev/null` unsigned short
 case $1 in
 unsigned) dflt="$1 $2" ;;
 *) dflt="$1"
 ;;
 esac
 ;;
*) dflt="$gidtype";;
esac
echo " "
rp="What is the type for group ids returned by getgid()?"
. ./myread
gidtype="$ans"
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/gidtype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_isascii.U,v 3.0.1.2 1994/10/29 16:13:39 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_isascii.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:13:39  ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:09:32  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_isascii: Compile cat rm Setvar i_stdlib
?MAKE: -pick add $@ %<
?S:d_isascii:
?S: This variable conditionally defines the HAS_ISASCII constant,
?S: which indicates
 to the C program that isascii() is available.
?S:.
```

```
?C:HAS_ISASCII:
?C: This manifest constant lets the C program know that isascii
?C: is available.
?C:.
?H:#$d_isascii HAS_ISASCII  /**/
?H:.
?LINT:set d_isascii
?X: Can't use Inlibc because isascii() might be a macro.
: Look for isascii
echo " "
$cat >isascii.c <<EOCP
#include <stdio.h>
#include <ctype.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() {
 int c = 'A';
 if (isascii(c))
  exit(0);
 else
  exit(1);
}
EOCP
set isascii
if eval $compile; then
 echo "isascii() found." >&4
 val="$define"
else
 echo "isascii() NOT found." >&4
 val="$undef"
fi
set d_isascii
eval $setvar
$rm -f isascii*
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_isascii.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
?MAKE:d_atolf: Inlibc
?MAKE: -pick add $@ %<
?S:d_atolf:
?S: This variable conditionally defines the HAS_ATOLF symbol, which
?S: indicates to the C program that the atolf() routine is available.
?S:.
?C:HAS_ATOLF:
?C: This symbol, if defined, indicates that the atolf routine is
?C: available to convert strings into long doubles.
?C:.
?H:#$d_atolf HAS_ATOLF  /**/
?H:.
?LINT:set d_atolf
: see if atolf exists
set atolf d_atolf
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/atolf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_bfd.U,v $
?RCS:
?RCS: Copyright (c) 2014 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_bfd: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_bfd:
?S: This variable conditionally defines the I_BFD symbol, and
?S: indicates whether a C program can include <bfd.h>.
?S:.
?C:I_BFD:
?C: This symbol, if defined, indicates that <bfd.h> exists and
?C: can be included.
?C:.
?H:#$i_bfd I_BFD  /**/
?H:.
?LINT:set i_bfd
: see if this is a bfd.h system
set bfd.h i_bfd
eval $inhdr
```

Found in path(s):

* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_bfd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Magic_h.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Magic_h.U,v $
?RCS: Revision 3.0.1.2  1993/11/10  17:32:58  ram
?RCS: patch14: forgot to mention Id in the dependencies
?RCS:
?RCS: Revision 3.0.1.1  1993/10/16  13:46:59  ram
?RCS: patch12: created for ?M: lines support (magic symbols)
?RCS:
?X:
?X: This file ends up producing the confmagic.h include, which is used to
?X: automagically remap some C symbols via cpp redefinitions.
?X:
?X: The file ./Magic_h below contains all the ?M: lines extracted out
 of all
?X: the units.  Metaconfig itself adds the final #endif statement.
?X: Note that this code isn't included into Configure, but must be shipped with.
?X:
?MAKE:Magic_h: Id Config_h
?MAKE: -pick cm_h_weed $@ %<
?MAKE: -pick cm_h_weed $@ ./Magic_h
?LINT:nocomment
/*
* This file was produced by running metaconfig and is intended to be included
* after config.h and after all the other needed includes have been dealt with.
*
* This file may be empty, and should not be edited. Rerun metaconfig instead.
* If you wish to get rid of this magic, remove this file and rerun metaconfig
* without the -M option.
*
*  $Id: Magic_h.U 1 2006-08-24 12:32:52Z rmanfredi $
*/

#ifndef _confmagic_h_
#define _confmagic_h_
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Magic_h.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getservprotos.U,v $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_getservprotos : Hasproto i_netdb
?MAKE: -pick add $@ %<
?S:d_getservprotos:
?S: This variable conditionally defines the HAS_GETSERV_PROTOS symbol,
?S: which indicates to the C program that <netdb.h> supplies
?S: prototypes for the various getserv*() functions.
?S: See also netdbtype.U for probing for various netdb types.
?S:.
?C:HAS_GETSERV_PROTOS:
?C: This symbol, if defined, indicates that <netdb.h> includes
?C: prototypes for getservent(), getservbyname(), and
?C: getservbyaddr().  Otherwise,
 it is up to the program to guess
?C: them.  See netdbtype.U for probing for various Netdb_xxx_t types.
?C:.
?H:#$d_getservprotos HAS_GETSERV_PROTOS /**/
?H:.
?LINT:set d_getservprotos
: see if prototypes for various getservxxx netdb.h functions are available
echo " "
set d_getservprotos getservent $i_netdb netdb.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/d_getservprotos.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_linuxstd.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_linuxstd.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:14:05  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_linuxstd: d_stdstdio cppstdin cppflags cppminus \
 contains rm Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_linuxstd:
?S: This variable conditionally defines USE_LINUX_STDIO if this system
?S: has a FILE structure declaring _IO_read_base, _IO_read_ptr,
?S: and _IO_read_end
 in stdio.h.
?S:.
?C:USE_LINUX_STDIO:
?C: This symbol is defined if this system has a FILE structure declaring
?C: _IO_read_base, _IO_read_ptr, and _IO_read_end in stdio.h.
?C:.
?H:#$d_linuxstd USE_LINUX_STDIO  /**/
?H:.
?T:xxx
?LINT:set d_linuxstd
: see if stdio is like that in linux
case "$d_stdstdio" in
"$undef")
 echo " "
 xxx=`./findhdr stdio.h`
 $cppstdin $cppflags $cppminus < "$xxx" > stdio.E
 if $contains 'char.*_IO_read_base' stdio.E >/dev/null 2>&1 && \
  $contains '_IO_read_ptr' stdio.E >/dev/null 2>&1 && \
  $contains '_IO_read_end' stdio.E >/dev/null 2>&1 ; then
   echo "Your stdio looks like linux." >&4
   val="$define"
 else
  echo "You don't have linux stdio, either." >&4
  val="$undef"
 fi
 $rm -f stdio.E
 ;;
*) val="$undef" ;;
esac
```

```
set d_linuxstd
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_linuxstd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:perladmin: cf_email Oldconfig Myread cat
?MAKE: -pick add $@ %<
?Y:TOP
?S:perladmin:
?S: Electronic mail address of the perl5 administrator.
?S:.
: Ask e-mail of administrator
$cat <<EOM

If you or somebody else will be maintaining perl at your site, please
fill in the correct e-mail address here so that they may be contacted
if necessary. You may enter "none" for no administrator.

EOM
case "$perladmin" in
") dflt="$cf_email";;
*) dflt="$perladmin";;
esac
rp='Perl administrator e-mail address'
. ./myread
perladmin="$ans"
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/perladmin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: doublesize.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:17:06  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:06  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:doublesize: cat rm_try Myread +cc +ccflags
?MAKE: -pick add $@ %<
?S:doublesize:
?S: This variable contains the value of the DOUBLESIZE symbol, which
?S: indicates to the C program how many bytes there are in a double.
?S:.
?C:DOUBLESIZE:
?C: This symbol contains the
 size of a double, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define DOUBLESIZE $doublesize  /**/
?H:.
?F:!try
: check for length of double
echo " "
case "$doublesize" in
")
 echo "Checking to see how big your double precision numbers are..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
 printf("%d\n", sizeof(double));
}
EOCP
 if $cc $ccflags -o try try.c >/dev/null 2>&1 ; then
  dflt=`./try`
 else
  dflt='8'
  echo "(I can't seem to compile the test program.  Guessing...)"
 fi
 ;;
*)
 dflt="$doublesize"
 ;;
esac
rp="What is the size of a double precision number (in bytes)?"
. ./myread
```

```
doublesize="$ans"
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/doublesize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_csh.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:32:18  ram
?RCS: patch61: added full_csh to preserve the full path even when portable
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:53  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_csh full_csh: csh Setvar
?MAKE: -pick add $@ %<
?S:d_csh:
?S: This variable conditionally defines the CSH symbol, which
?S: indicates to the C program that the C-shell exists.
?S:.
?S:full_csh:
?S: This variable contains the full pathname to 'csh', whether
 or
?S: not the user has specified 'portability'.  This is only used
?S: in the compiled C program, and we assume that all systems which
?S: can share this executable will have the same full pathname to
?S: 'csh.'
?S:.
?C:HAS_CSH:
?C: This symbol, if defined, indicates that the C-shell exists.
?C:.
?C:CSH:
?C: This symbol, if defined, contains the full pathname of csh.
?C:.
?X: Previously, I just did $d_csh CSH "$full_csh", but that caused
?X: problems on VMS where the config.sh extraction program changes
?X: $undef to a real cpp undef, and they then had  #undef CSH ""
```

```
?X: which the compiler didn't like.  It's easy to work around this,
?X: so I did.  --AD  3/1998.
?X: And we don't want to define CSH if !HAS_CSH, but we don't want
?X: those lines in config.h if they don't need CSH, so protect with ?CSH
?X: and not ?%<. --RAM, 15/02/2004
?H:?%<:#$d_csh HAS_CSH  /**/
?H:?CSH:#ifdef HAS_CSH
?H:?CSH:#define CSH "$full_csh" /**/
?H:?CSH:#endif
?H:.
?LINT:set d_csh
: get csh whereabouts
case
 "$csh" in
'csh') val="$undef" ;;
*) val="$define" ;;
esac
set d_csh
eval $setvar
: Respect a hint or command line value for full_csh.
case "$full_csh" in
") full_csh=$csh ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_csh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_asctime_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_asctime_r asctime_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_time i_systime extern_C
?MAKE: -pick add $@ %<
?S:d_asctime_r:
?S: This variable conditionally defines the HAS_ASCTIME_R symbol,
?S: which indicates to the C program that the asctime_r()
?S: routine is available.
?S:.
?S:asctime_r_proto:
?S: This variable encodes the prototype of asctime_r.
?S: It is zero if d_asctime_r is undef, and one of the
```

```
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_asctime_r
?S: is defined.
?S:.
?C:HAS_ASCTIME_R:
?C: This symbol, if defined, indicates that the asctime_r routine
?C: is available to asctime
 re-entrantly.
?C:.
?C:ASCTIME_R_PROTO:
?C: This symbol encodes the prototype of asctime_r.
?C: It is zero if d_asctime_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_asctime_r
?C: is defined.
?C:.
?H:#$d_asctime_r HAS_ASCTIME_R /**/
?H:#define ASCTIME_R_PROTO $asctime_r_proto /**/
?H:.
?T:try hdrs d_asctime_r_proto
: see if asctime_r exists
set asctime_r d_asctime_r
eval $inlibc
case "$d_asctime_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_time time.h $i_systime sys/time.h"
 case "$d_asctime_r_proto:$usethreads" in
 ":define") d_asctime_r_proto=define
  set d_asctime_r_proto asctime_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_asctime_r_proto" in
 define)
 case "$asctime_r_proto" in
 "|0) try='char* asctime_r(const struct tm*, char*);'
 ./protochk "$extern_C $try" $hdrs && asctime_r_proto=B_SB ;;
 esac
 case "$asctime_r_proto" in
 "|0) try='char* asctime_r(const struct tm*, char*, int);'
 ./protochk "$extern_C $try" $hdrs
 && asctime_r_proto=B_SBI ;;
 esac
 case "$asctime_r_proto" in
 "|0) try='int asctime_r(const struct tm*, char*);'
 ./protochk "$extern_C $try" $hdrs && asctime_r_proto=I_SB ;;
 esac
 case "$asctime_r_proto" in
 "|0) try='int asctime_r(const struct tm*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && asctime_r_proto=I_SBI ;;
```

```
 esac
 case "$asctime_r_proto" in
 "|0) d_asctime_r=undef
  asctime_r_proto=0
  echo "Disabling asctime_r, cannot determine prototype." >&4 ;;
 * ) case "$asctime_r_proto" in
  REENTRANT_PROTO*) ;;
  *) asctime_r_proto="REENTRANT_PROTO_$asctime_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "asctime_r has no prototype, not using it." >&4 ;;
  esac
  d_asctime_r=undef
  asctime_r_proto=0
  ;;
 esac
 ;;
*) asctime_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_asctime_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?X:
?X: Useless unit dropped.  Use randfunc instead.
?X:
?LINT:empty
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/randbits.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fcntl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_fcntl.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_fcntl: Inlibc
?MAKE: -pick add $@ %<
?S:d_fcntl:
?S: This variable conditionally defines the HAS_FCNTL symbol, and indicates
?S: whether the fcntl() function exists
?S:.
?C:HAS_FCNTL:
?C: This symbol, if defined, indicates to the C program that
?C: the fcntl() function exists.
?C:.
?H:#$d_fcntl HAS_FCNTL  /**/
?H:.
?LINT:set d_fcntl
:
 see if this is an fcntl system
set fcntl d_fcntl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_fcntl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysresrc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysresrc.U,v $
```

```
?RCS: Revision 3.0  1993/08/18  12:08:34  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Look wether <sys/resource.h> needs to be included
?X:
?MAKE:i_sysresrc: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysresrc:
?S: This variable conditionally defines the I_SYS_RESOURCE symbol,
?S: and indicates whether a C program should include <sys/resource.h>.
?S:.
?C:I_SYS_RESOURCE (I_SYSRESOURCE):
?C: This symbol, if defined, indicates
 to the C program that it should
?C: include <sys/resource.h>.
?C:.
?H:#$i_sysresrc I_SYS_RESOURCE  /**/
?H:.
?LINT:set i_sysresrc
: see if sys/resource.h has to be included
set sys/resource.h i_sysresrc
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sysresrc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strtoul.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:46:43  ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_strtoul: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtoul:
```

```
?S: This variable conditionally defines the HAS_STRTOUL symbol, which
?S: indicates to the C program that the strtoul() routine is available
?S: to provide conversion of strings to unsigned long.
?S:.
?C:HAS_STRTOUL (STRTOUL):
?C: This symbol, if defined, indicates that the strtoul routine is
?C: available
 to provide conversion of strings to unsigned long.
?C:.
?H:#$d_strtoul HAS_STRTOUL /**/
?H:.
?LINT:set d_strtoul
: see if strtoul exists
set strtoul d_strtoul
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strtoul.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_gethname.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:13:00  ram
?RCS: patch36: call ./xenix explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:11  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_gethname d_uname d_phostname aphostname: phostname cat \
 myhostname package d_portable Loc echo n c +i_whoami +usrinc \
 Myread Guess Oldconfig Csym
?MAKE: -pick add $@ %<
?S:d_gethname:
?S: This variable conditionally defines the HAS_GETHOSTNAME symbol,
 which
?S: indicates to the C program that the gethostname() routine may be
?S: used to derive the host name.
?S:.
```

```
?S:d_uname:
?S: This variable conditionally defines the HAS_UNAME symbol, which
?S: indicates to the C program that the uname() routine may be
?S: used to derive the host name.
?S:.
?S:d_phostname:
?S: This variable conditionally defines the PHOSTNAME symbol, which
?S: contains the shell command which, when fed to popen(), may be
?S: used to derive the host name.
?S:.
?S:aphostname:
?S: Thie variable contains the command which can be used to compute the
?S: host name. The command is fully qualified by its absolute path, to make
?S: it safe when used by a process with super-user privileges.
?S:.
?C:HAS_GETHOSTNAME (GETHOSTNAME):
?C: This symbol, if defined, indicates that the C program may use the
?C: gethostname() routine to derive the host name.  See also HAS_UNAME
?C: and PHOSTNAME.
?C:.
?C:HAS_UNAME (UNAME):
?C: This symbol, if defined, indicates that the C program may
 use the
?C: uname() routine to derive the host name.  See also HAS_GETHOSTNAME
?C: and PHOSTNAME.
?C:.
?C:PHOSTNAME:
?C: This symbol, if defined, indicates that the C program may use the
?C: contents of PHOSTNAME as a command to feed to the popen() routine
?C: to derive the host name.  See also HAS_GETHOSTNAME and HAS_UNAME.
?C: Note that the command uses a fully qualified path, so that it is safe
?C: even if used by a process with super-user privileges.
?C:.
?H:#$d_gethname HAS_GETHOSTNAME /**/
?H:#$d_uname HAS_UNAME  /**/
?H:#$d_phostname PHOSTNAME "$aphostname" /* How to get the host name */
?H:.
?T:file val call
?LINT:change i_whoami
: see how we will look up host name
echo " "
if false; then
 : dummy stub to allow use of elif
@if HAS_GETHOSTNAME
elif set gethostname val -f d_gethname; eval $csym; $val; then
 echo 'gethostname() found.' >&4
 d_gethname="$define"
 call=gethostname
```

```
@end
@if HAS_UNAME
elif set uname val -f d_uname; eval $csym; $val; then
 if ./xenix; then
  $cat <<'EOM'
uname()
 was found, but you're running xenix, and older versions of xenix
have a broken uname(). If you don't really know whether your xenix is old
enough to have a broken system call, use the default answer.

EOM
  dflt=y
  case "$d_uname" in
  "$define") dflt=n;;
  esac
  rp='Is your uname() broken?'
  . ./myread
  case "$ans" in
  n*) d_uname="$define"; call=uname;;
  esac
 else
  echo 'uname() found.' >&4
  d_uname="$define"
  call=uname
 fi
@end
fi
case "$d_gethname" in
") d_gethname="$undef";;
esac
case "$d_uname" in
") d_uname="$undef";;
esac
@if PHOSTNAME || MYHOSTNAME
case "$d_uname$d_gethname" in
*define*)
 dflt=n
 cat <<EOM

Every now and then someone has a $call() that lies about the hostname
but can't be fixed for political or economic reasons.  If you wish, I can
@if MYHOSTNAME && PHOSTNAME
pretend $call() isn't there and maybe compile in the hostname or
compute it from the '$phostname' command at run-time.
@elsif MYHOSTNAME
pretend $call() isn't there and maybe compile
 in the hostname.
@elsif PHOSTNAME
```

```
pretend $call() isn't there and maybe compute hostname at run-time
thanks to the '$phostname' command.
@elsif WHOAMI
get the hostname from whomai.h (provided you have one).
@else
simply ignore your host name and use someting like "noname" instead.
@end

EOM
 rp="Shall I ignore $call() from now on?"
 . ./myread
 case "$ans" in
 y*) d_uname="$undef" d_gethname="$undef"; $echo $n "Okay...$c";;
 esac;;
esac
@end
@if PHOSTNAME || aphostname
?X: Compute the full path name for the command
case "$phostname" in
") aphostname=";;
*) case "$aphostname" in
 /*) ;;
 *) set X $phostname
  shift
  file=$1
  shift
  file=`./loc $file $file $pth`
  aphostname=`echo $file $*`
  ;;
 esac
 ;;
esac
@end
@if PHOSTNAME && MYHOSTNAME
case "$d_uname$d_gethname" in
*define*) ;;
*)
 case "$phostname" in
 ") ;;
 *)
  $cat <<EOT

There is no gethostname() or uname() on this system.  You have two
possibilities at this point:

1)  You can have your host name ($myhostname) compiled
 into $package, which
   lets $package start up faster, but makes your binaries non-portable, or
```

```
2)  you can have $package use a

 popen("$aphostname","r")

   which will start slower but be more portable.

@ if WHOAMI
Option 1 will give you the option of using whoami.h if you have one.
@ end
If you want option 2 but with a different command, you can edit config.sh at
the end of this shell script.

EOT
  case "$d_phostname" in
  "$define") dflt=n;;
  "$undef")  dflt=y;;
  ")
   case "$d_portable" in
   "$define") dflt=n ;;
   *) dflt=y ;;
   esac;;
  esac
  rp="Do you want your host name compiled in?"
  . ./myread
  case "$ans" in
  n*) d_phostname="$define" ;;
  *) aphostname=''; d_phostname="$undef";;
  esac;;
 esac
 case "$aphostname" in
 ")
@ if WHOAMI
  case "$i_whoami" in
  "$define")
   dflt=y
   $cat <<EOM

No hostname function--you can either use the whoami.h file, which has this line:

 `grep sysname $usrinc/whoami.h`

or you can have the name we came up with earlier
 ($myhostname) hardwired in.
EOM
   rp="Use whoami.h to get hostname?"
   . ./myread
   case "$ans" in
   n*) i_whoami="$undef";;
```

```
   esac
   ;;
  "$undef")
   $cat <<EOM
No hostname function and no whoami.h -- hardwiring "$myhostname".
EOM
   ;;
  esac;;
@ else
  echo 'No hostname function -- hardwiring '"$myhostname"'.' >&4;;
@ end
 esac;;
esac
@elsif PHOSTNAME
case "$d_uname$d_gethname" in
*define*) ;;
*)
 case "$phostname" in
 ")
@ if WHOAMI
  case "$i_whoami" in
  "$define")
   $cat <<EOM

No hostname function--we'll use the whoami.h file, which has this line:

 `grep sysname $usrinc/whoami.h`

EOM
   ;;
  *) echo "There will be no way for $package to get your hostname." >&4;;
  esac;;
@ else
  echo "There will be no way for $package to get your hostname." >&4;;
@ end
 *)
 echo "I'll use 'popen('''$aphostname''', "r")'' to get your hostname." >&4
  ;;
 esac;;
esac
@elsif MYHOSTNAME
case "$d_uname$d_gethname" in
*define*) ;;
*)
@ if WHOAMI
 case "$i_whoami" in
 "$define")
  dflt=y
```

```
  $cat
 <<EOM

No hostname function--you can either use the whoami.h file, which has this line:

 `grep sysname $usrinc/whoami.h`

or you can have the name we came up with earlier ($myhostname) hardwired in.
EOM
  rp="Use whoami.h to get hostname?"
  . ./myread
  case "$ans" in
  n*) i_whoami="$undef";;
  esac
  ;;
 "$undef")
  echo 'No whoami.h--hardwiring "'$myhostname'".' >&4;;
 esac;;
@ else
 echo 'Hardwiring "'$myhostname'".' >&4;;
@ end
esac
@end
case "$d_phostname" in
") d_phostname="$undef";;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_gethname.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fd_set.U,v 3.0.1.3 1997/02/28 15:33:16 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_fd_set.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:33:16  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20  06:57:23  ram
?RCS: patch30: extended scope for fd_set checks (ADO)
```

```
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:06:27  ram
?RCS: patch16: comments for HAS_FD_* symbols were not consistent
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_fd_set d_fd_macros
 d_fds_bits: Compile cat rm_try Oldconfig \
 d_socket i_systime i_sysselct i_stdlib run
?MAKE: -pick add $@ %<
?S:d_fd_set:
?S: This variable contains the eventual value of the HAS_FD_SET symbol,
?S: which indicates if your C compiler knows about the fd_set typedef.
?S:.
?S:d_fd_macros:
?S: This variable contains the eventual value of the HAS_FD_MACROS symbol,
?S: which indicates if your C compiler knows about the macros which
?S: manipulate an fd_set.
?S:.
?S:d_fds_bits:
?S: This variable contains the eventual value of the HAS_FDS_BITS symbol,
?S: which indicates if your fd_set typedef contains the fds_bits member.
?S: If you have an fd_set typedef, but the dweebs who installed it did
?S: a half-fast job and neglected to provide the macros to manipulate
?S: an fd_set, HAS_FDS_BITS will let us know how to fix the gaffe.
?S:.
?C:HAS_FD_SET:
?C: This symbol, when defined, indicates presence of the fd_set typedef
?C: in <sys/types.h>
?C:.
?C:HAS_FD_MACROS:
?C: This symbol, when defined,
  indicates presence of the macros used to
?C: manipulate an fd_set.
?C:.
?C:HAS_FDS_BITS:
?C: This symbol, when defined, indicates presence of the fds_bits member in
?C: fd_set.  This knowledge is useful if fd_set is available but the macros
?C: aren't.
?C:.
?H:#$d_fd_set HAS_FD_SET /**/
?H:#$d_fd_macros HAS_FD_MACROS /**/
?H:#$d_fds_bits HAS_FDS_BITS /**/
?H:.
?F:!try
: check for fd_set items
$cat <<EOM
```

```
Checking to see how well your C compiler handles fd_set and friends ...
EOM
?X: The FD_SET macros can be in strange places.  On some SysV-based
?X: systems, they are in <sys/bsdtypes.h>, which is included (perhaps)
?X: by <sys/socket.h>.  We won't force people to include
?X: <sys/bsdtypes.h> because it might introduce other
?X: incompatibilities.
$cat >try.c <<EOCP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_systime I_SYS_TIME
#$i_sysselct I_SYS_SELECT
#$d_socket HAS_SOCKET
#include <sys/types.h>
#ifdef HAS_SOCKET
#include <sys/socket.h> /* Might include <sys/bsdtypes.h>
 */
#endif
#ifdef I_SYS_TIME
#include <sys/time.h>
#endif
#ifdef I_SYS_SELECT
#include <sys/select.h>
#endif
int main() {
 fd_set fds;

#ifdef TRYBITS
 if(fds.fds_bits);
#endif

#if defined(FD_SET) && defined(FD_CLR) && defined(FD_ISSET) && defined(FD_ZERO)
 exit(0);
#else
 exit(1);
#endif
}
EOCP
set try -DTRYBITS
if eval $compile; then
 d_fds_bits="$define"
 d_fd_set="$define"
 echo "Well, your system knows about the normal fd_set typedef..." >&4
 if $run ./try; then
  echo "and you have the normal fd_set macros (just as I'd expect)." >&4
```

```
  d_fd_macros="$define"
 else
  $cat >&4 <<'EOM'
but not the normal fd_set macros!  Gaaack!  I'll have to cover for you.
EOM
  d_fd_macros="$undef"
 fi
else
 $cat <<'EOM'
Hmm, your compiler has some difficulty with fd_set.  Checking further...
EOM
 set try
 if eval $compile; then
  d_fds_bits="$undef"
  d_fd_set="$define"
  echo "Well, your system has some sort of fd_set available..." >&4
  if $run ./try; then
   echo "and you have the normal
 fd_set macros." >&4
   d_fd_macros="$define"
  else
   $cat <<'EOM'
but not the normal fd_set macros!  Gross!  More work for me...
EOM
   d_fd_macros="$undef"
  fi
 else
 echo "Well, you got zip.  That's OK, I can roll my own fd_set stuff." >&4
  d_fd_set="$undef"
  d_fds_bits="$undef"
  d_fd_macros="$undef"
 fi
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_fd_set.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Head.U,v $
?RCS: Revision 3.0.1.9  1997/02/28  15:02:09  ram
?RCS: patch61: make sure we unset CDPATH for shells that support this
?RCS: patch61: improved Korn shell detection and handling
?RCS:
?RCS: Revision 3.0.1.8  1995/07/25  13:40:02  ram
?RCS: patch56: added SVR4-ish /opt directories to path list (ADO)
?RCS: patch56: OS/2 platforms are using another path separator
?RCS:
?RCS: Revision 3.0.1.7  1995/03/21  08:46:15  ram
?RCS: patch52: definition of paths wrongly added spurious ':' chars
?RCS:
?RCS:
 Revision 3.0.1.6  1994/10/29  15:54:19  ram
?RCS: patch36: make sure ENV is unset before calling /bin/ksh
?RCS:
?RCS: Revision 3.0.1.5  1994/08/29  16:03:44  ram
?RCS: patch32: now sets PATH only using existing directories
?RCS:
?RCS: Revision 3.0.1.4  1994/06/20  06:54:28  ram
?RCS: patch30: now computes its invocation name into 'me'
?RCS: patch30: symbol me is made visible to all units read-only
?RCS:
?RCS: Revision 3.0.1.3  1993/12/15  08:15:07  ram
?RCS: patch15: added /sbin:/usr/sbin:/usr/libexec in PATH for BSD/386
?RCS:
?RCS: Revision 3.0.1.2  1993/11/10  17:32:35  ram
?RCS: patch14: ensure PATH is reset to '.' before testing for alias
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:38:07  ram
?RCS: patch7: not all 'test' programs support the -x option
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This is the very first unit in the Configure script.  It is mostly just
?X: things to keep people from getting
 into a tizzy right off the bat.
?X:
?MAKE:Head:
?MAKE: -pick wipe $@ %<
?V:PATH p_ _exe me newsh
?T:argv Id p paths OS2_SHELL DJGPP
?T:inksh needksh avoidksh newsh changesh reason
?F:!*
```

```
?LINT:extern ENV CDPATH SHELL MACHTYPE
?LINT:change ENV CDPATH
?LINT:nocomment
#! /bin/sh
#
# If these # comments don't work, trim them. Don't worry about any other
# shell scripts, Configure will trim # comments from them for you.
#
# (If you are trying to port this package to a machine without sh,
# I would suggest you have a look at the prototypical config_h.SH file
# and edit it to reflect your system. Some packages may include samples
# of config.h for certain machines, so you might look for one of those.)
#
?X:
?X: NOTE THAT A CONFIGURE SCRIPT IS IN THE PUBLIC DOMAIN (whether or not
?X: the software which uses it is in the public domain).
?X:
# Yes, you may rip this off to use in other distribution packages. This
# script belongs to the public domain and cannot be copyrighted.
#
?X:
?X: WE ASK YOU
 NOT TO REMOVE OR ALTER THE FOLLOWING PARAGRAPH, PLEASE:
?X:
# Note: this Configure script was generated automatically. Rather than
# working with this copy of Configure, you may wish to get metaconfig.
# The dist package (which contains metaconfig) is available via SVN:
#     svn co https://svn.code.sf.net/p/dist/code/trunk/dist
?X:
?X: NOTA BENE:
?X: If you develop you own version of metaconfig based on this work,
?X: you have to add some comments telling that the script was generated
?X: by your version, not mine: It credits your work.
?X:

# $Id: Head.U 6 2006-08-25 22:21:46Z rmanfredi $
#
# Generated on <DATE> [metaconfig <VERSION> PL<PATCHLEVEL>]

cat >c1$$ <<EOF
ARGGGHHHH!!!!!

SCO csh still thinks true is false.  Write to SCO today and tell them that next
year Configure ought to "rm /bin/csh" unless they fix their blasted shell. :-)

(Actually, Configure ought to just patch csh in place.  Hmm.  Hmmmmm.  All
we'd have to do is go in and swap the && and || tokens, wherever they are.)
```

```
[End
 of diatribe. We now return you to your regularly scheduled programming...]
EOF
cat >c2$$ <<EOF

OOPS!  You naughty creature!  You didn't run Configure with sh!
I will attempt to remedy the situation by running sh for you...
EOF

true || cat c1$$ c2$$
true || exec sh $0 $argv:q

(exit $?0) || cat c2$$
(exit $?0) || exec sh $0 $argv:q
rm -f c1$$ c2$$

: compute my invocation name
me=$0
case "$0" in
*/*)
 me=`echo $0 | sed -e 's!.*/\(.*\)!\1!' 2>/dev/null`
 test "$me" || me=$0
 ;;
esac

?X:
?X: To be able to run under OS/2, we must detect that early enough to use
?X: the proper path separator, stored in $p_. It is : on UNIX and ; on
?X: DOSish systems such as OS/2.
?X:
: Proper separator for the PATH environment variable
p_=:
: On OS/2 this directory should exist if this is not floppy only system ":-]"
if test -d c:/. ; then
 if test -n "$OS2_SHELL"; then
  p_=\;
  PATH=`cmd /c "echo %PATH%" | tr '\\\\' / `
?X: That's a bug in ksh5.22
  OS2_SHELL=`cmd /c "echo %OS2_SHELL%" | tr
 '\\\\' / | tr '[A-Z]' '[a-z]'`
 elif test -n "$DJGPP"; then
  case "X${MACHTYPE:-nonesuchmach}" in
  *cygwin) ;;
  *) p_=\; ;;
  esac
 fi
fi
```

```
?X:
?X: There are two schools of thoughts here. Some people correctly argue that
?X: the user has a better chance than we do of setting a reasonable PATH and
?X: others argue that Configure is the best place there is to set up a suitable
?X: PATH. Well, here we try to compromize by keeping the user's PATH and
?X: appending some directories which are known to work on some machine or the
?X: other. The rationale behind this being that a novice user might not have a
?X: proper environment variable set, and some directories like /etc (where
?X: chown is located on some BSD systems) may be missing--RAM.
?X:
?X: SVR4 adds an /opt directory for optional packages.  Some sites use
?X: various permutations on /opt as opposed to /usr or /usr/local.-- ADO
?X:
?X: We only add directories that are not already in the PATH of the
?X: user and the directories must
 exist also.
?X:
: Proper PATH setting
paths='/bin /usr/bin /usr/local/bin /usr/ucb /usr/local /usr/lbin'
paths="$paths /opt/bin /opt/local/bin /opt/local /opt/lbin"
paths="$paths /usr/5bin /etc /usr/gnu/bin /usr/new /usr/new/bin /usr/nbin"
paths="$paths /opt/gnu/bin /opt/new /opt/new/bin /opt/nbin"
paths="$paths /sys5.3/bin /sys5.3/usr/bin /bsd4.3/bin /bsd4.3/usr/ucb"
paths="$paths /bsd4.3/usr/bin /usr/bsd /bsd43/bin /usr/ccs/bin"
paths="$paths /etc /usr/lib /usr/ucblib /lib /usr/ccs/lib"
paths="$paths /sbin /usr/sbin /usr/libexec"
paths="$paths /system/gnu_library/bin"

for p in $paths
do
 case "$p_$PATH$p_" in
 *$p_$p$p_*) ;;
 *) test -d $p && PATH=$PATH$p_$p ;;
 esac
done

PATH=.$p_$PATH
export PATH

: shall we be using ksh?
inksh=''
needksh=''
avoidksh=''
newsh=/bin/ksh
changesh=''
?X: Use (alias -x) and not (alias) since zsh and bash recognize the alias
?X: builtin but not the -x option which is typically ksh...
?X: We need to set up PATH before calling the "alias" built-in since
```

```
 some
?X: systems like HP-UX have a binary called /bin/alias.
if (PATH=.; alias -x) >/dev/null 2>&1; then
  inksh=true
fi
?X: On HP-UX, large Configure scripts may exercise a bug in /bin/sh, use ksh
if test -f /hp-ux -a -f /bin/ksh; then
 needksh='to avoid sh bug in "here document" expansion'
fi
?X: On AIX4, /bin/sh is really ksh and it causes problems, use sh
if test -d /usr/lpp -a -f /usr/bin/bsh -a -f /usr/bin/uname; then
 if test X`/usr/bin/uname -v` = X4; then
  avoidksh="to avoid AIX 4's /bin/sh"
  newsh=/usr/bin/bsh
 fi
fi
?X: On Digital UNIX, /bin/sh may start up buggy /bin/ksh, use sh
if test -f /osf_boot -a -f /usr/sbin/setld; then
 if test X`/usr/bin/uname -s` = XOSF1; then
  avoidksh="to avoid Digital UNIX' ksh"
  newsh=/bin/sh
?X: if BIN_SH is set to 'xpg4', sh will start up ksh
  unset BIN_SH
 fi
fi
?X: If we are not in ksh and need it, then feed us back to it
case "$inksh/$needksh" in
/[a-z]*)
?X: Clear ENV to avoid any ~/.kshrc that could alias cd or whatever...
?X: Don't
 use "unset ENV", that is not portable enough
  ENV="
  changesh=true
  reason="$needksh"
 ;;
esac
?X: If we are in ksh and must avoid it, then feed us back to a new shell
case "$inksh/$avoidksh" in
true/[a-z]*)
 changesh=true
 reason="$avoidksh"
 ;;
esac
?X: Warn them if they use ksh on other systems, which are those where
?X: we don't need ksh nor want to avoid it explicitly, yet are using it.
case "$inksh/$needksh-$avoidksh-" in
true/--)
  cat <<EOM
```

```
(I see you are using the Korn shell.  Some ksh's blow up on $me,
mainly on older exotic systems.  If yours does, try the Bourne shell instead.)
EOM
 ;;
esac
case "$changesh" in
true)
 export newsh
 echo "(Feeding myself to $newsh $reason.)"
?X: Make sure they didn't say sh <Configure by checking whether $0 ends
?X: with Configure or not. If they did say sh <../../Configure, then too
?X: bad for them anyway, since we lost that path indication...
?X: Otherwise, execing $0 ensures we keep the full remote source dir
?X: indication for src.U.
 case
 "$0" in
 Configure|*/Configure) exec $newsh $0 "$@";;
 *) exec $newsh Configure "$@";;
 esac
 ;;
esac

?X: Unset CDPATH to avoid surprises when using cd under some shells
?X: Can't unset it because that's not portable to very old shells.
?X: Can't set it to '' because then bash 2.02 won't do "cd UU"  --AD  6/98.
?X: Don't want to set it to '.' because then ksh prints out the
?X: name of the directory every time you cd to it. --AD 6/98
?X: In order to inflict the least harm, change it only if it's set.
: if needed, set CDPATH to a harmless value that is not chatty
case "$CDPATH" in
'') ;;
*) case "$SHELL" in
 *bash*) CDPATH='.' ;;
 *) CDPATH='' ;;
 esac
 ;;
esac

: Configure runs within the UU subdirectory
test -d UU || mkdir UU
?X: Use ./* to avoid any confirmation prompts from enhanced shells -- WED
cd UU && rm -f ./*
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Head.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_safemcpy.U,v 3.0.1.5 1997/02/28 15:41:12 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_safemcpy.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  15:41:12  ram
?RCS: patch61: improved overlapping copy check
?RCS: patch61: comfort them if they have memmove
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.4  1995/07/25  13:58:46  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.3  1995/03/21  08:47:26  ram
?RCS: patch52: swapped two first arguments of memcpy() calls
?RCS:
?RCS:
 Revision 3.0.1.2  1994/10/29  16:15:10  ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:53:12  ram
?RCS: patch23: ensure string is not optimized in read-only memory (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_safemcpy: Compile cat d_memcpy rm_try run \
 d_memmove i_memory i_stdlib i_string i_unistd Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_safemcpy:
?S: This variable conditionally defines the HAS_SAFE_MEMCPY symbol if
?S: the memcpy() routine can do overlapping copies.
?S: For overlapping copies, memmove() should be used, if available.
?S:.
?C:HAS_SAFE_MEMCPY (SAFE_MEMCPY):
?C: This symbol, if defined, indicates that the memcpy routine is available
?C: to copy potentially overlapping memory blocks.  If you need to
?C: copy overlapping memory blocks, you should check HAS_MEMMOVE and
?C: use memmove() instead, if available.
?C:.
?H:#$d_safemcpy HAS_SAFE_MEMCPY /**/
?H:.
```

```
?F:!try
?LINT:
 set d_safemcpy
: can memcpy handle overlapping blocks?
echo " "
?X: assume the worst
val="$undef"
case "$d_memmove" in
"$define") echo "I'll use memmove() instead of memcpy() for overlapping copies." ;;
*) case "$d_memcpy" in
 "$define")
  echo "Checking to see if memcpy() can do overlapping copies..." >&4
  $cat >try.c <<EOCP
#$i_memory I_MEMORY
#$i_stdlib I_STDLIB
#$i_string I_STRING
#$i_unistd I_UNISTD
EOCP
 $cat >>try.c <<'EOCP'
#include <stdio.h>
#ifdef I_MEMORY
#  include <memory.h>
#endif
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#ifdef I_STRING
#  include <string.h>
#else
#  include <strings.h>
#endif
#ifdef I_UNISTD
#  include <unistd.h>  /* Needed for NetBSD */
#endif
int main()
{
char buf[128], abc[128];
char *b;
int len;
int off;
int align;

/* Copy "abcde..." string to char abc[] so that gcc doesn't
  try to store the string in read-only memory. */
memcpy(abc, "abcdefghijklmnopqrstuvwxyz0123456789", 36);

for (align = 7; align >=
```

```
 0; align--) {
 for (len = 36; len; len--) {
  b = buf+align;
  memcpy(b, abc, len);
  for (off = 1; off <= len; off++) {
   memcpy(b+off, b, len);
   memcpy(b, b+off, len);
   if (memcmp(b, abc, len))
    exit(1);
  }
 }
}
exit(0);
}
EOCP
  set try
  if eval $compile_ok; then
   if $run ./try 2>/dev/null; then
    echo "Yes, it can."
    val="$define"
   else
    echo "It can't, sorry."
   fi
  else
   echo "(I can't compile the test program, so we'll assume not...)"
  fi
  ;;
 esac
 $rm_try
 ;;
esac
set d_safemcpy
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_safemcpy.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: stdchar.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:stdchar: contains Findhdr cppstdin cppminus rm
?MAKE: -pick add $@ %<
?S:stdchar:
?S: This variable conditionally defines STDCHAR to be the type of char
?S: used in stdio.h.  It has the values "unsigned char" or "char".
?S:.
?C:STDCHAR:
?C: This symbol is defined to be the type of char used in stdio.h.
?C: It has the values "unsigned char" or "char".
?C:.
?H:#define STDCHAR $stdchar /**/
?H:.
?F:!stdioh
:
 see what type of char stdio uses.
echo " "
?X: untangle the #include nest
echo '#include <stdio.h>' | $cppstdin $cppminus > stdioh
if $contains 'unsigned.*char.*_ptr;' stdioh >/dev/null 2>&1 ; then
 echo "Your stdio uses unsigned chars." >&4
 stdchar="unsigned char"
else
 echo "Your stdio uses signed chars." >&4
 stdchar="char"
fi
$rm -f stdioh
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/stdchar.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_hasmntopt: Inlibc
?MAKE: -pick add $@ %<
?S:d_hasmntopt:
?S: This variable conditionally defines the HAS_HASMNTOPT symbol, which
```

```
?S: indicates to the C program that the hasmntopt() routine is available
?S: to query the mount options of file systems.
?S:.
?C:HAS_HASMNTOPT:
?C: This symbol, if defined, indicates that the hasmntopt routine is
?C: available to query the mount options of file systems.
?C:.
?H:#$d_hasmntopt HAS_HASMNTOPT  /**/
?H:.
?LINT:set d_hasmntopt
: see if hasmntopt exists
set hasmntopt d_hasmntopt
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_hasmntopt.U
No license file was found, but licenses were detected in source scan.

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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_mbrlen: Inlibc
?MAKE: -pick add $@ %<
?S:d_mbrlen:
?S: This variable conditionally defines the HAS_MBRLEN symbol if the
?S: mbrlen() routine is available to be used to get the length of
?S: multi-byte character strings.
?S:.
?C:HAS_MBRLEN:
?C: This symbol, if defined, indicates that the mbrlen routine is
?C: available to get the length of multi-byte character strings.
?C:.
?H:#$d_mbrlen HAS_MBRLEN /**/
?H:.
?LINT: set d_mbrlen
: see if mbrlen exists
set mbrlen d_mbrlen
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_mbrlen.U

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```
?RCS: $Id: Obsol_h.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Obsol_h.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:11  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file is prepended to .MT/Obsol_h if that file is not empty. That file
?X: contains the necessary mappings of new symbols to obsolete ones.
?X:
?MAKE:Obsol_h:
?MAKE: -pick prepend $@ ./Obsol_h
?LINT:nocomment
/*
* The following symbols are obsolete. They are mapped to the new
* symbols only to ease the transition process. The sources
 should be
* updated so as to use the new symbols only, as the support for these
* obsolete symbols may end without notice.
*/
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Obsol_h.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:usesocks: Myread Oldconfig Setvar
?MAKE: -pick add $@ %<
?Y:TOP
?S:usesocks:
?S: This variable conditionally defines the USE_SOCKS symbol,
```

```
?S: and indicates that Perl should be built to use SOCKS.
?S:.
?C:USE_SOCKS:
?C: This symbol, if defined, indicates that Perl should
?C: be built to use socks.
?C:.
?H:?%<:#ifndef USE_SOCKS
?H:?%<:#$usesocks USE_SOCKS  /**/
?H:?%<:#endif
?H:.
?LINT:set usesocks
?INIT:: set usesocks on the Configure command line to enable socks.
: Check is we will use socks
?X: We should really have some explanatory text here, and some
?X: automatic setting of sensible defaults.
case "$usesocks" in
$define|true|[yY]*) dflt='y';;
*) dflt='n';;
esac
cat <<EOM

Perl can be built to
 use the SOCKS proxy protocol library.  To do so,
Configure must be run with -Dusesocks.  If you use SOCKS you also need
to use the PerlIO abstraction layer, this will be implicitly selected.

If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp='Build Perl for SOCKS?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*)      val="$undef" ;;
esac
set usesocks
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/usesocks.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_scandir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_scandir.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:06:35  ram
?RCS: patch16: created
?RCS:
?MAKE:d_scandir: Inlibc
?MAKE: -pick add $@ %<
?S:d_scandir:
?S: This variable conditionally defines HAS_SCANDIR if scandir() is
?S: available to scan a directory.
?S:.
?C:HAS_SCANDIR:
?C: This symbol, if defined, indicates that the scandir routine is
?C: available to scan a directory.
?C:.
?H:#$d_scandir HAS_SCANDIR /**/
?H:.
?LINT:set d_scandir
: see if
 scandir exists
set scandir d_scandir
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_scandir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2019 Karl Williamson
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_towlower: Inlibc
?MAKE: -pick add $@ %<
?S:d_towlower:
?S: This variable conditionally defines the HAS_TOWLOWER symbol, which
?S: indicates to the C program that the towlower() routine is available.
?S:.
?C:HAS_TOWLOWER:
?C: This symbol, if defined, indicates that the towlower () routine is
?C: available to do case conversion.
?C:.
```

```
?H:#$d_towlower HAS_TOWLOWER  /**/
?H:.
?LINT:set d_towlower
: see if towlower exists
set towlower d_towlower
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_towlower.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libperl.U,v $
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:libperl useshrplib shrpenv ldlibpthname: \
 Myread Oldconfig archlibexp awk cat libc \
 _a osname osvers so patchlevel subversion usedl ld \
 ccdlflags installarchlib userelocatableinc
?MAKE: -pick wipe $@ %<
?S:libperl:
?S: The perl executable is obtained by linking perlmain.c with
?S: libperl, any static extensions (usually just DynaLoader),
?S: and any other libraries needed on this system.  libperl
?S: is usually libperl.a, but can also be libperl.so.xxx if
?S: the user wishes to build a perl executable with a shared
?S: library.
?S:.
?S:useshrplib:
?S: This variable is set to 'true' if the user wishes
?S: to build a shared libperl, and 'false' otherwise.
?S:.
?S:shrpenv:
?S: If
 the user builds a shared libperl.so, then we need to tell the
?S: 'perl' executable where it will be able to find the installed libperl.so.
?S: One way to do this on some systems is to set the environment variable
?S: LD_RUN_PATH to the directory that will be the final location of the
?S: shared libperl.so.  The makefile can use this with something like
?S:  $shrpenv $(CC) -o perl perlmain.o $libperl $libs
?S: Typical values are
?S:  shrpenv="env LD_RUN_PATH=$archlibexp/CORE"
?S: or
?S:  shrpenv="
```

```
?S: See the main perl Makefile.SH for actual working usage.
?S:
?S: Alternatively, we might be able to use a command line option such
?S: as -R $archlibexp/CORE (Solaris) or -Wl,-rpath
?S: $archlibexp/CORE (Linux).
?S:.
?S:ldlibpthname:
?S: This variable holds the name of the shared library
?S: search path, often LD_LIBRARY_PATH.  To get an empty
?S: string, the hints file must set this to 'none'.
?S:.
?T:shrpdir majonly majmin also xxx tmp_shrpenv
?X: metalint gets confused and thinks we're
 actually setting LDOPTS
?X: and LD_RUN_PATH.
?LINT:extern LDOPTS
?LINT:change LDOPTS
?LINT:extern LD_RUN_PATH
?LINT:change LD_RUN_PATH
?LINT:change ccdlflags
?LINT:extern maintloc maintname
?Y:top
: Do we want a shared libperl?
also=''
case "$usedl" in
$undef)
 # No dynamic loading being used, so don't bother even to prompt.
 useshrplib='false'
 ;;
*) case "$useshrplib" in
 '') case "$osname" in
  svr4*|nonstopux|dgux|dynixptx|esix|powerux|haiku|cygwin*)
   dflt=y
   also='Building a shared libperl is required for dynamic loading to work on your system.'
   ;;
  *) dflt=n
   ;;
  esac
  ;;
 $define|true|[Yy]*)
  dflt=y
  ;;
 *) dflt=n
  ;;
 esac
 $cat << EOM

The perl executable is normally obtained by linking perlmain.c with
```

```
libperl${_a}, any static extensions (usually just DynaLoader), and
any other libraries needed on this system (such as -lm, etc.).  Since
your system supports dynamic loading, it is probably possible to build
a shared libperl.$so.  If you will have more than one
 executable linked
to libperl.$so, this will significantly reduce the size of each
executable, but it may have a noticeable effect on performance.  The
default is probably sensible for your system.
$also

EOM
 rp="Build a shared libperl.$so (y/n)"
 . ./myread
 case "$ans" in
 true|$define|[Yy]*)
  useshrplib='true'  ;;
 *) useshrplib='false' ;;
 esac
 ;;
esac

case "$useshrplib" in
true)
 case "$userelocatableinc" in
 true|define)
  echo "Cannot build with both -Duserelocatableinc and -Duseshrplib" >&4
  echo "See INSTALL for an explanation why that won't work." >&4
  exit 4
  ;;
 esac
 case "$libperl" in
 ")
  # Figure out a good name for libperl.so.  Since it gets stored in
  # a version-specific architecture-dependent library, the version
  # number isn't really that important, except for making cc/ld happy.
  #
  # A name such as libperl.so.10.1
  majmin="libperl.$so.$patchlevel.$subversion"
  # A name such as libperl.so.100
  majonly=`echo $patchlevel $subversion |
   $awk '{printf
 "%d%02d", $1, $2}'`
  majonly=libperl.$so.$majonly
  # I'd prefer to keep the os-specific stuff here to a minimum, and
  # rely on figuring it out from the naming of libc.
  case "${osname}${osvers}" in
  *linux*|gnu*)  # ld won't link with a bare -lperl otherwise.
   dflt=libperl.$so
```

```
  ;;
 cygwin*) # ld links now against the dll directly
  majmin="cygperl5_${patchlevel}_${subversion}.${so}"
  majonly=`echo $patchlevel $subversion |
   $awk '{printf "%03d%03d", $1, $2}'`
  majonly=cygperl5.$majonly.$so
  dflt=$majmin
  ;;
 *) # Try to guess based on whether libc has major.minor.
  case "$libc" in
  *libc.$so.[0-9]*.[0-9]*) dflt=$majmin ;;
  *libc.$so.[0-9]*) dflt=$majonly ;;
  *) dflt=libperl.$so ;;
  esac
  ;;
 esac
 ;;
*) dflt=$libperl
 ;;
esac
cat << EOM

I need to select a good name for the shared libperl.  If your system uses
library names with major and minor numbers, then you might want something
like $majmin.  Alternatively, if your system uses a single
 version
number for shared libraries, then you might want to use $majonly.
Or, your system might be quite happy with a simple libperl.$so.

Since the shared libperl will get installed into a version-specific
architecture-dependent directory, the version number of the shared perl
library probably isn't important, so the default should be o.k.

EOM
 rp='What name do you want to give to the shared libperl?'
 . ./myread
 libperl=$ans
 echo "Ok, I'll use $libperl"
 ;;
*)
 libperl="libperl${_a}"
 ;;
esac

# Detect old use of shrpdir via undocumented Configure -Dshrpdir
case "$shrpdir" in
") ;;
*) $cat >&4 <<EOM
```

```
WARNING:  Use of the shrpdir variable for the installation location of
the shared $libperl is not supported.  It was never documented and
will not work in this version.  Let me (<$maintloc>)
know of any problems this may cause.

EOM
 case "$shrpdir" in
 "$archlibexp/CORE")
  $cat >&4 <<EOM
But your current setting of $shrpdir is
the default anyway, so it's harmless.
EOM
  ;;
 *)
  $cat
 >&4 <<EOM
Further, your current attempted setting of $shrpdir
conflicts with the value of $archlibexp/CORE
that installperl will use.
EOM
  ;;
 esac
 ;;
esac

# How will the perl executable find the installed shared $libperl?
# Add $xxx to ccdlflags.
# If we can't figure out a command-line option, use $shrpenv to
# set env LD_RUN_PATH.  The main perl makefile uses this.
shrpdir=$archlibexp/CORE
xxx=''
tmp_shrpenv=''
if "$useshrplib"; then
   case "$osname" in
 aix)
  # We'll set it in Makefile.SH...
  ;;
 solaris)
  xxx="-R $shrpdir"
  ;;
 freebsd|minix|mirbsd|netbsd|openbsd|interix|dragonfly|bitrig)
  xxx="-Wl,-R$shrpdir"
  ;;
 bsdos|linux|irix*|dec_osf|gnu*|haiku)
  xxx="-Wl,-rpath,$shrpdir"
  ;;
 hpux*)
  # hpux doesn't like the default, either.
```

```
  tmp_shrpenv="env LDOPTS=\"+s +b${shrpdir}\""
  ;;
 cygwin)
  # cygwin needs only ldlibpth
  ;;
 *)
  tmp_shrpenv="env LD_RUN_PATH=$shrpdir"
  ;;
 esac
 case "$xxx" in
 '') ;;
 *)
  # Only add $xxx if it isn't already in ccdlflags.
  case
 " $ccdlflags " in
  *" $xxx "*) ;;
  *) ccdlflags="$ccdlflags $xxx"
   cat <<EOM >&4

Adding $xxx to the flags
passed to $ld so that the perl executable will find the
installed shared $libperl.

EOM
   ;;
  esac
  ;;
 esac
fi
# Fix ccdlflags in AIX for building external extensions.
# (For building Perl itself bare -bE:perl.exp is needed,
#  Makefile.SH takes care of this.)
case "$osname" in
aix) ccdlflags="$ccdlflags -bE:$installarchlib/CORE/perl.exp" ;;
esac
# Respect a hint or command-line value.
case "$shrpenv" in
'') shrpenv="$tmp_shrpenv" ;;
esac
case "$ldlibpthname" in
'') ldlibpthname=LD_LIBRARY_PATH ;;
none) ldlibpthname='' ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/libperl.U

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```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fp_classl: Inlibc
?MAKE: -pick add $@ %<
?S:d_fp_classl:
?S: This variable conditionally defines the HAS_FP_CLASSL symbol, which
?S: indicates to the C program that the fp_classl() routine is available.
?S:.
?C:HAS_FP_CLASSL:
?C: This symbol, if defined, indicates that the fp_classl routine is
?C: available to classify long doubles.  Available for example in
?C: Digital UNIX.  See for possible values HAS_FP_CLASS.
?C:.
?H:#$d_fp_classl HAS_FP_CLASSL  /**/
?H:.
?LINT:set d_fp_classl
: see if fp_classl exists
set fp_classl d_fp_classl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fp_classl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endpwent.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_endpwent.U,v $
?RCS:
?MAKE:d_endpwent: Inlibc
?MAKE: -pick add $@ %<
?S:d_endpwent:
?S: This variable conditionally defines the HAS_ENDPWENT symbol, which
?S: indicates to the C program that the endpwent() routine is available
?S: for sequential access of the passwd database.
?S:.
```

```
?C:HAS_ENDPWENT:
?C: This symbol, if defined, indicates that the endpwent routine is
?C: available for finalizing sequential access of the passwd database.
?C:.
?H:#$d_endpwent HAS_ENDPWENT  /**/
?H:.
?LINT:set d_endpwent
: see if endpwent exists
set endpwent d_endpwent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_endpwent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: lib.U,v 3.0.1.3 1995/09/25 09:16:47 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: lib.U,v $
?RCS: Revision 3.0.1.3  1995/09/25  09:16:47  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:38:08  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:27:40  ram
?RCS: patch32: now uses installation prefix to set the default
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?LINT:
 empty
?X:?MAKE:lib libexp: Getfile Loc Oldconfig Prefixit Prefixup prefixexp
?X:?MAKE: -pick add $@ %<
?X:?Y:TOP
?X:?S:lib:
?X:?S: This variable holds the name of the directory in which the user wants
?X:?S: to put public library files for the package in question.  It is most
?X:?S: often a local directory such as /usr/local/lib. Programs using this
```

```
?X:?S: variable must be prepared to deal with filename expansion.
?X:?S:.
?X:?S:libexp:
?X:?S: This variable is the same as the lib variable, but is filename expanded
?X:?S: at configuration time, for convenient use in your makefiles.
?X:?S:.
?X:: determine where public libraries go
?X:set lib lib
?X:eval $prefixit
?X:case "$lib" in
?X:")
?X: dflt=`./loc . "." $prefixexp/lib /usr/local/lib /usr/lib /lib`
?X: set dflt
?X: eval $prefixup
?X: ;;
?X:*)  dflt="$lib";;
?X:esac
?X:echo " "
?X:fn=d~
?X:rp='Where do you want to put the public libraries?'
?X:. ./getfile
?X:lib="$ans"
?X:libexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/nullified/lib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_preadv.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_preadv.U,v $
?RCS:
?MAKE:d_preadv: Inlibc
?MAKE: -pick add $@ %<
?S:d_preadv:
?S: This variable conditionally defines the HAS_PREADV symbol, which
?S: indicates to the C program that the preadv() routine is available.
?S:.
?C:HAS_PREADV :
```

```
?C: This symbol, if defined, indicates that the preadv routine is
?C: available to perform vectored reads on a file descriptor at a
?C: given offset.
?C:.
?H:#$d_preadv HAS_PREADV  /**/
?H:.
?LINT:set d_preadv
:
 see if preadv exists
set preadv d_preadv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_preadv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_castneg.U,v 3.0.1.2 1995/05/12 12:11:21 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_castneg.U,v $
?RCS: Revision 3.0.1.2  1995/05/12  12:11:21  ram
?RCS: patch54: made sure cc and ccflags are conditional dependencies
?RCS: patch54: added improved test case for Interactive Unix
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:10:50  ram
?RCS: patch36: don't forget to tell user about compilation failures (ADO)
?RCS: patch36: declare signal handler correctly using 'signal_t' (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:47  ram
?RCS: Baseline
 for dist 3.0 netwide release.
?RCS:
?X:
?X: Can the compiler cast negative / odd floats to unsigned values.
?X:
?MAKE:d_castneg castflags: cat Compile rm_try Setvar signal_t run i_stdlib
?MAKE: -pick add $@ %<
?S:d_castneg:
?S: This variable conditionally defines CASTNEG, which indicates
?S: whether the C compiler can cast negative float to unsigned.
```

```
?S:.
?S:castflags:
?S: This variable contains a flag that precise difficulties the
?S: compiler has casting odd floating values to unsigned long:
?S:  0 = ok
?S:  1 = couldn't cast < 0
?S:  2 = couldn't cast >= 0x80000000
?S:  4 = couldn't cast in argument expression list
?S:.
?C:CASTNEGFLOAT:
?C: This symbol is defined if the C compiler can cast negative
?C: numbers to unsigned longs, ints and shorts.
?C:.
?C:CASTFLAGS:
?C: This symbol contains flags that say what difficulties the compiler
?C: has casting odd floating values to unsigned long:
?C:  0 = ok
?C:  1 = couldn't cast < 0
?C:  2 = couldn't cast >= 0x80000000
?C:  4 = couldn't
 cast in argument expression list
?C:.
?H:#$d_castneg CASTNEGFLOAT  /**/
?H:#define CASTFLAGS $castflags  /**/
?H:.
?F:!try
?LINT:set d_castneg
: check for ability to cast negative floats to unsigned
echo " "
echo 'Checking whether your C compiler can cast negative float to unsigned.' >&4
$cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <sys/types.h>
#include <signal.h>
$signal_t blech(int s) { exit(7); }
$signal_t blech_in_list(int s) { exit(4); }
unsigned long dummy_long(unsigned long p) { return p; }
unsigned int dummy_int(unsigned int p) { return p; }
unsigned short dummy_short(unsigned short p) { return p; }
int main()
{
 double f;
 unsigned long along;
 unsigned int aint;
```

```
unsigned short ashort;
int result = 0;
char str[16];

/* Frustrate gcc-2.7.2's optimizer which failed this test with
   a direct f = -123. assignment.  gcc-2.8.0 reportedly
   optimized the whole file away
*/
/* Store the number in a writable
string for gcc to pass to
   sscanf under HP-UX.
*/
sprintf(str, "-123");
sscanf(str, "%lf", &f);  /* f = -123.; */

signal(SIGFPE, blech);
along = (unsigned long)f;
aint = (unsigned int)f;
ashort = (unsigned short)f;
if (along != (unsigned long)-123)
 result |= 1;
if (aint != (unsigned int)-123)
 result |= 1;
if (ashort != (unsigned short)-123)
 result |= 1;
sprintf(str, "1073741824.");
sscanf(str, "%lf", &f); /* f = (double)0x40000000; */
f = f + f;
along = 0;
along = (unsigned long)f;
if (along != 0x80000000)
 result |= 2;
f -= 1.;
along = 0;
along = (unsigned long)f;
if (along != 0x7fffffff)
 result |= 1;
f += 2.;
along = 0;
along = (unsigned long)f;
if (along != 0x80000001)
 result |= 2;
if (result)
 exit(result);
?X:
?X: The following is a test for Interactive Unix Version 4.1, which
?X: has an 'improved' compiler which can correctly cast negative
?X: floats in expression lists, but apparently not in argument lists.
```

```
?X: Contributed by Winfried Koenig
 <win@incom.rhein-main.de>
?X:
 signal(SIGFPE, blech_in_list);
 sprintf(str, "123.");
 sscanf(str, "%lf", &f);  /* f = 123.; */
 along = dummy_long((unsigned long)f);
 aint = dummy_int((unsigned int)f);
 ashort = dummy_short((unsigned short)f);
 if (along != (unsigned long)123)
  result |= 4;
 if (aint != (unsigned int)123)
  result |= 4;
 if (ashort != (unsigned short)123)
  result |= 4;
 exit(result);

}
EOCP
set try
if eval $compile_ok; then
 $run ./try 2>/dev/null
 castflags=$?
else
 echo "(I can't seem to compile the test program--assuming it can't)"
 castflags=7
fi
case "$castflags" in
0) val="$define"
 echo "Yup, it can."
 ;;
*) val="$undef"
 echo "Nope, it can't."
 ;;
esac
set d_castneg
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_castneg.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2014 H.Merijn Brand
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_ptrdiff_t: Inlibc Setvar Compile rm_try cat
?MAKE: -pick add $@ %<
?S:d_ptrdiff_t:
?S: This symbol will be defined if the C compiler supports ptrdiff_t.
?S:.
?C:HAS_PTRDIFF_T:
?C: This symbol will be defined if the C compiler supports ptrdiff_t.
?C:.
?H:#$d_ptrdiff_t HAS_PTRDIFF_T  /**/
?H:.
?LINT:set d_ptrdiff_t
: check for ptrdiff_t
echo " "
echo "Checking to see if you have ptrdiff_t..." >&4
$cat >try.c <<EOCP
#include <stddef.h>
int main() { ptrdiff_t x = 7; }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have ptrdiff_t."
else
 val="$undef"
 echo "You do not have ptrdiff_t."
fi
$rm_try
set d_ptrdiff_t
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_ptrdiff_t.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Myinit.U,v 3.0 1993/08/18 12:05:07 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
```

```
?RCS:
?RCS: $Log: Myinit.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: If you want to initialize any default values, copy this unit to your
?X: personal U directory and add the assignments to the end.  This file
?X: is included after variables are initialized but before any old
?X: config.sh file is read in and before any Configure switch processing.
?X:
?MAKE:Myinit
 libswanted: Init
?MAKE: -pick add $@ %<
?S:libswanted:
?S: This variable holds a list of all the libraries we want to
?S: search.  The order is chosen to pick up the c library
?S: ahead of ucb or bsd libraries for SVR4.
?S:.
?LINT:extern usevfork glibpth
?LINT:change usevfork glibpth
: List of libraries we want.
?X: Put crypt here, even though I should really fix d_crypt.U to look
?X: for it correctly, including possible shared library versions.
: If anyone needs extra -lxxx, put those in a hint file.
libswanted="cl pthread socket bind inet nsl ndbm gdbm dbm db malloc dl ld"
libswanted="$libswanted sun m crypt sec util c cposix posix ucb bsd BSD"
: We probably want to search /usr/shlib before most other libraries.
: This is only used by the lib/ExtUtils/MakeMaker.pm routine extliblist.
glibpth=`echo " $glibpth " | sed -e 's! /usr/shlib ! !'`
glibpth="/usr/shlib $glibpth"
: Do not use vfork unless overridden by a hint file.
usevfork=false
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Myinit.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: cc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: cc.U,v $
?RCS: Revision 3.0.1.4  1995/05/12  12:06:47  ram
?RCS: patch54: may now abort Configure when cc does not work
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:20:11  ram
?RCS: patch45: changed gcc checking message to a more explicit one (WED)
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:04:29  ram
?RCS: patch36: detect gcc even when not called as 'gcc' (ADO)
?RCS: patch36: simplified gcc version checking (ADO)
?RCS: patch36: added ?F: line for metalint
 file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:26:06  ram
?RCS: patch23: added support for gcc version (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:30  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:cc: Myread Oldconfig Checkcc test
?MAKE: -pick add $@ %<
?S:cc:
?S: This variable holds the name of a command to execute a C compiler which
?S: can resolve multiple global references that happen to have the same
?S: name.  Usual values are 'cc' and 'gcc'.
?S: Fervent ANSI compilers may be called 'c89'.  AIX has xlc.
?S:.
?F:!cc.cbu
?D:cc='cc'
: Determine the C compiler to be used
echo " "
case "$cc" in
") dflt=cc;;
*) dflt="$cc";;
esac
rp="Use which C compiler?"
. ./myread
cc="$ans"

: See whether they have no cc but they do have gcc
. ./trygcc
?X: Look for a hint-file generated 'call-back-unit'.  Now that the
?X: user has specified the compiler, we may need to set or change some
?X: other defaults.
if $test -f cc.cbu; then
   . ./cc.cbu
fi
```

```
. ./checkcc

Found
 in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
5.36.0/dist/U/cc.U
No license file was found, but licenses were detected in source scan.

case $CONFIG in
")
 if test -f config.sh; then TOP=.;
 elif test -f ../config.sh; then TOP=..;
 elif test -f ../../config.sh; then TOP=../..;
 elif test -f ../../../config.sh; then TOP=../../..;
 elif test -f ../../../../config.sh; then TOP=../../../..;
 else
  echo "Can't find config.sh."; exit 1
 fi
 . $TOP/config.sh
 ;;
esac
case "$0" in
*/*) cd `expr X$0 : 'X\(.*\)/'` ;;
esac
echo "Extracting makedir (with variable substitutions)"
$spitshell >makedir <<!GROK!THIS!
$startsh
# $Id: makedir.sh,v 3.0.1.1 1994/01/24 14:00:08 ram Exp ram $
#
#  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
#
#  You may redistribute only under the terms of the Artistic Licence,
#  as specified in the README file that comes with the distribution.
#  You may reuse parts of this distribution only within the terms of
#  that same Artistic Licence; a copy of which may be found at the root
#  of the source tree for dist 4.0.
#
# Original
 Author: Larry Wall <lwall@netlabs.com>
#
# $Log: makedir.sh,v $
# Revision 3.0.1.1  1994/01/24  14:00:08  ram
# patch16: changed top ln-style config.sh lookup into test-style one
#
# Revision 3.0  1993/08/18  12:04:38  ram
# Baseline for dist 3.0 netwide release.
#
```

```
export PATH || (echo "OOPS, this isn't sh.  Desperation time.  I will feed myself to sh."; sh \$0; kill \$\$)

case \$# in
 0)
   $echo "makedir pathname filenameflag"
   exit 1
   ;;
esac

: guarantee one slash before 1st component
case \$1 in
 /*) ;;
 *)  set ./\$1 \$2 ;;
esac

: strip last component if it is to be a filename
case X\$2 in
 X1) set \`$echo \$1 | $sed 's:\(.*\)/[^/]*\$:\1:'\` ;;
 *)  set \$1 ;;
esac

: return reasonable status if nothing to be created
if $test -d "\$1" ; then
   exit 0
fi

list="
while true ; do
   case \$1 in
   */*)
 list="\$1 \$list"
 set \`echo \$1 | $sed 's:\(.*\)/:\1 :'\`
 ;;
   *)
 break
 ;;
   esac
done

set \$list

for dir do
   $mkdir \$dir >/dev/null 2>&1
done
!GROK!THIS!
$eunicefix
 makedir
chmod +x makedir
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/lib/makedir.SH
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_uwait.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_uwait.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:10:49  ram
?RCS: patch16: added knowledge about wait3()
?RCS: patch16: revised 'union wait' look-up algorithm
?RCS: patch16: fixed make dependency line accordingly
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_uwait d_uwait3: cat contains cppstdin cppminus +cppflags rm \
 Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_uwait:
?S: This symbol
 conditionally defines UNION_WAIT which indicates to the C
?S: program that argument for the wait() system call should be declared as
?S: 'union wait status' instead of 'int status'.
?S:.
?S:d_uwait3:
?S: This symbol conditionally defines UNION_WAIT3 which indicates to the C
?S: program that the first argument for the wait3() system call should be
?S: declared as 'union wait status' instead of 'int status'.
?S:.
?C:UNION_WAIT:
?C: This symbol if defined indicates to the C program that the argument
?C: for the wait() system call should be declared as 'union wait status'
?C: instead of 'int status'. You probably need to include <sys/wait.h>
?C: in the former case (see I_SYSWAIT).
?C:.
?C:UNION_WAIT3:
?C: This symbol if defined indicates to the C program that the first argument
?C: for the wait3() system call should be declared as 'union wait status'
```

```
?C: instead of 'int status'. You probably need to include <sys/wait.h>
?C: in the former case (see I_SYSWAIT). It seems safe to assume that
 the
?C: same rule applies to the second parameter of wait4().
?C:.
?H:#$d_uwait UNION_WAIT  /**/
?H:#$d_uwait3 UNION_WAIT3 /**/
?H:.
?T:val2 flags f also
?LINT:set d_uwait d_uwait3
: see if union wait is available
echo " "
?X:
?X: Unfortunately, we can't just grep <sys/wait.h> for "union wait" because
?X: some weird systems (did I hear HP-UX?) define union wait only when _BSD
?X: is defined. The same thing happens on OSF/1, who is pushing weirdness to
?X: its limits by requiring wait() to use (int *) but wait3() to use
?X: (union wait *), unless _BSD is defined and -lbsd is used, in which case
?X: wait() also expects (union wait *). Aaargh!!--RAM
?X:
set X $cppflags
shift
flags=''
also=''
for f in $*; do
 case "$f" in
 *NO_PROTO*) ;;
 *) flags="$flags $f";;
 esac
done
$cat `./findhdr sys/wait.h` /dev/null | \
 $cppstdin $flags $cppminus >wait.out 2>/dev/null
if $contains 'union.*wait.*{' wait.out >/dev/null 2>&1 ; then
 echo "Looks like your <sys/wait.h> knows about 'union wait'..."
 >&4
 val="$define"
@if UNION_WAIT
 also='also '
 if $contains 'extern.*wait[  ]*([  ]*int' wait.out >/dev/null 2>&1
 then
  echo "But wait() seems to expect an 'int' pointer (POSIX way)." >&4
  val="$undef"
  also=''
 elif $contains 'extern.*wait[  ]*([  ]*union' wait.out >/dev/null 2>&1
 then
  echo "And indeed wait() expects an 'union wait' pointer (BSD way)." >&4
 else
  echo "So we'll use that for wait()." >&4
```

```
 fi
@end
@if UNION_WAIT3 || d_uwait3
 val2="$define"
@end
@if UNION_WAIT3
 if $contains 'extern.*wait3[  ]*([  ]*int' wait.out >/dev/null 2>&1
 then
  echo "However wait3() seems to expect an 'int' pointer, weird." >&4
  val2="$undef"
 elif $contains 'extern.*wait3[  ]*([  ]*union' wait.out >/dev/null 2>&1
 then
  echo "And wait3() ${also}expects an 'union wait' pointer, fine." >&4
 else
  echo "As expected, wait3() ${also}uses an 'union wait' pointer." >&4
 fi
@end
else
 echo "No trace of 'union wait' in <sys/wait.h>..." >&4
 val="$undef"
@if UNION_WAIT && UNION_WAIT3
 echo
 "Both wait() and wait3() will use a plain 'int' pointer then." >&4
@elsif UNION_WAIT
 echo "Your wait() should be happy with a plain 'int' pointer." >&4
@elsif UNION_WAIT3
 echo "Your wait3() should be happy with a plain 'int' pointer." >&4
@end
fi
set d_uwait
eval $setvar
@if UNION_WAIT3 || d_uwait3
val="$val2"; set d_uwait3
eval $setvar
@end
$rm -f wait.out
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_uwait.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
?MAKE:d_strtoq: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtoq:
?S: This variable conditionally defines the HAS_STRTOQ symbol, which
?S: indicates to the C program that the strtoq() routine is available.
?S:.
?C:HAS_STRTOQ:
?C: This symbol, if defined, indicates that the strtoq routine is
?C: available to convert strings to long longs (quads).
?C:.
?H:#$d_strtoq HAS_STRTOQ  /**/
?H:.
?LINT:set d_strtoq
: see if strtoq exists
set strtoq d_strtoq
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strtoq.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_sysaccess: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysaccess:
?S: This variable conditionally defines the I_SYS_ACCESS symbol,
?S: and indicates whether a C program should include <sys/access.h>.
?S:.
?C:I_SYS_ACCESS:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/access.h>.
?C:.
?H:#$i_sysaccess   I_SYS_ACCESS              /**/
?H:.
?LINT:set i_sysaccess
: see if sys/access.h is available
set sys/access.h i_sysaccess
```

```
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/acl/i_sysaccess.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: perlpath.U,v 3.0.1.2 1995/09/25 09:17:04 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
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?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: perlpath.U,v $
?RCS:
?RCS: Special perl5 unit -- we haven't installed perl yet.
?RCS:
?RCS: Revision 3.0.1.2  1995/09/25  09:17:04  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:33:53  ram
?RCS: patch45: can now use Loc variables since path stripping is deferred
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:32  ram
?RCS: Baseline for dist
 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this unit is to locate perl good enough to construct a #!
?X:
?MAKE:perlpath: cat Getfile Loc Myread Oldconfig initialinstalllocation \
 startperl version versiononly
?MAKE: -pick add $@ %<
?Y:TOP
?S:perlpath:
?S: This variable contains the eventual value of the PERLPATH symbol,
?S: which contains the name of the perl interpreter to be used in
?S: shell scripts and in the "eval 'exec'" idiom.  This variable is
?S: not necessarily the pathname of the file containing the perl
?S: interpreter; you must append the executable extension (_exe) if
?S: it is not already present.  Note that Perl code that runs during
?S: the Perl build process cannot reference this variable, as Perl
?S: may not have been installed, or even if installed, may be a
```

```
?S: different version of Perl.
?S:.
?C:PERLPATH:
?C: This symbol contains the name of the perl interpreter to be
?C: used in shell scripts and in the "eval 'exec'" idiom.
?C:.
?H:#define PERLPATH "$perlpath"  /**/
?H:.
:
 figure best path for perl in scripts
case "$perlpath" in
")
 case "$versionony" in
 "$define") perlpath="$initialinstalllocation/perl$version";;
 *)  perlpath="$initialinstalllocation/perl";;
 esac
 case "$startperl" in
 *!*) ;;
 *)
  $cat <<EOH

I will use the "eval 'exec'" idiom to start Perl on your system.
I can use the full path of your Perl binary for this purpose, but
doing so may cause problems if you want to share those scripts and
Perl is not always in a standard place ($initialinstalllocation/perl).

EOH
  dflt="$initialinstalllocation/perl"
  rp="What path shall I use in \"eval 'exec'\"?"
  . ./myread
  perlpath="$ans"
  ;;
 esac
 ;;
esac
case "$startperl" in
*!*) ;;
*) echo "I'll use $perlpath in \"eval 'exec'\"" ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/perlpath.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: startperl.U,v 3.0 1993/08/18 12:09:50 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
```

```
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
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?RCS:
?RCS: $Log: startperl.U,v $
?RCS: Perl5 version -- I always have d_portable=define.
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:startperl: cat Myread sharpbang initialinstalllocation test \
 versiononly version
?MAKE: -pick add $@ %<
?Y:TOP
?X: This is different from dist's standard startperl.U unit because
?X: we can't directly test #!/usr/local/bin/perl (or
 whatever) because
?X: we haven't built and installed perl yet.
?S:startperl:
?S: This variable contains the string to put on the front of a perl
?S: script to make sure (hopefully) that it runs with perl and not some
?S: shell. Of course, that leading line must be followed by the classical
?S: perl idiom:
?S:  eval 'exec perl -S $0 ${1+"$@"}'
?S:   if $running_under_some_shell;
?S: to guarantee perl startup should the shell execute the script. Note
?S: that this magic incantation is not understood by csh.
?S:.
?C:STARTPERL:
?C: This variable contains the string to put in front of a perl
?C: script to make sure (one hopes) that it runs with perl and not
?C: some shell.
?C:.
?H:#define STARTPERL "$startperl"  /**/
?H:.
: figure out how to guarantee perl startup
: XXX Note that this currently takes advantage of the bug that binexp ignores
:     the Configure -Dinstallprefix setting, which in turn means that under
:     relocatable @INC, initialinstalllocation is what binexp started as.
case
 "$startperl" in
")
 case "$sharpbang" in
 *!)
```

```
  $cat <<EOH

I can use the #! construct to start perl on your system. This will
make startup of perl scripts faster, but may cause problems if you
want to share those scripts and perl is not in a standard place
($initialinstalllocation/perl) on all your platforms. The alternative
is to force a shell by starting the script with a single ':' character.

EOH
  case "$versiononly" in
  "$define")      dflt="$initialinstalllocation/perl$version";;
  *)              dflt="$initialinstalllocation/perl";;
  esac
  rp='What shall I put after the #! to start up perl ("none" to not use #!)?'
  . ./myread
  case "$ans" in
  none) startperl=": # use perl";;
  *) startperl="#!$ans"
   if $test 30 -lt `echo "$ans" | wc -c`; then
    $cat >&4 <<EOM

WARNING:  Some systems limit the #! command to 32 characters.
If you experience difficulty running Perl scripts with #!, try
installing Perl in a directory with a shorter pathname.

EOM
   fi ;;
  esac
  ;;
 *)
 startperl=": # use perl"
  ;;
 esac
 ;;
esac
echo "I'll use $startperl to start perl scripts."
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/startperl.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: h_fcntl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: h_fcntl.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:12  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:h_fcntl: Nothing
?MAKE: -pick add $@ %<
?S:h_fcntl:
?S: This is variable gets set in various places to tell i_fcntl that
?S: <fcntl.h> should be included.
?S:.
: Initialize h_fcntl
h_fcntl=false
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/h_fcntl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getgrent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getgrent_r getgrent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_grp extern_C
?MAKE: -pick add $@ %<
?S:d_getgrent_r:
?S: This variable conditionally defines the HAS_GETGRENT_R symbol,
?S: which indicates to the C program that the getgrent_r()
?S: routine is available.
?S:.
?S:getgrent_r_proto:
?S: This variable encodes the prototype of getgrent_r.
?S: It is zero if d_getgrent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getgrent_r
?S: is defined.
?S:.
?C:HAS_GETGRENT_R:
?C: This symbol, if defined, indicates that the getgrent_r routine
?C: is available to
```

```
 getgrent re-entrantly.
?C:.
?C:GETGRENT_R_PROTO:
?C: This symbol encodes the prototype of getgrent_r.
?C: It is zero if d_getgrent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getgrent_r
?C: is defined.
?C:.
?H:#$d_getgrent_r HAS_GETGRENT_R /**/
?H:#define GETGRENT_R_PROTO $getgrent_r_proto /**/
?H:.
?T:try hdrs d_getgrent_r_proto
: see if getgrent_r exists
set getgrent_r d_getgrent_r
eval $inlibc
case "$d_getgrent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_grp grp.h"
 case "$d_getgrent_r_proto:$usethreads" in
 ":define") d_getgrent_r_proto=define
  set d_getgrent_r_proto getgrent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getgrent_r_proto" in
 define)
 case "$getgrent_r_proto" in
 "|0) try='int getgrent_r(struct group*, char*, size_t, struct group**);'
 ./protochk "$extern_C $try" $hdrs && getgrent_r_proto=I_SBWR ;;
 esac
 case "$getgrent_r_proto" in
 "|0) try='int getgrent_r(struct group*, char*, int, struct group**);'
 ./protochk
 "$extern_C $try" $hdrs && getgrent_r_proto=I_SBIR ;;
 esac
 case "$getgrent_r_proto" in
 "|0) try='struct group* getgrent_r(struct group*, char*, size_t);'
 ./protochk "$extern_C $try" $hdrs && getgrent_r_proto=S_SBW ;;
 esac
 case "$getgrent_r_proto" in
 "|0) try='struct group* getgrent_r(struct group*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getgrent_r_proto=S_SBI ;;
 esac
 case "$getgrent_r_proto" in
 "|0) try='int getgrent_r(struct group*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getgrent_r_proto=I_SBI ;;
 esac
 case "$getgrent_r_proto" in
```

```
"|0) try='int getgrent_r(struct group*, char*, int, FILE**);'
./protochk "$extern_C $try" $hdrs && getgrent_r_proto=I_SBIH ;;
esac
case "$getgrent_r_proto" in
"|0) d_getgrent_r=undef
 getgrent_r_proto=0
 echo "Disabling getgrent_r, cannot determine prototype." >&4 ;;
* ) case "$getgrent_r_proto" in
 REENTRANT_PROTO*) ;;
 *) getgrent_r_proto="REENTRANT_PROTO_$getgrent_r_proto" ;;
 esac
 echo "Prototype:
$try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "getgrent_r has no prototype, not using it." >&4 ;;
 esac
 d_getgrent_r=undef
 getgrent_r_proto=0
 ;;
esac
;;
*) getgrent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getgrent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Warn.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extract.U,v $
?X:
?X: This unit produces a shell script which can be run in order to emit
?X: an important warning to the user, which will be remembered and shown
?X: at the end of the Configure run as well.
?X:
```

```
?X: A typical use would be:
?X:
?X:  ./warn <<EOM
?X:  Problem with your C compiler: can't turn debugging on.
?X:  EOM
?X:
?X: or:
?X:
?X:  ./warn "Problem with your C compiler: can't turn debugging on."
?X:
?X: Which will both display to the user:
?X:
?X:  ***
 WARNING:
?X:  *** Problem with your C compiler: can't turn debugging on.
?X:  ***
?X:
?MAKE:Warn: startsh eunicefix
?MAKE: -pick add $@ %<
?F:./warn
: script used to emit important warnings
cat >warn <<EOS
$startsh
?X: Read the whole warning message from stdin into a temporary file
?X: when no argument was supplied.
if test \$# -gt 0; then
 echo "\$@" >msg
else
 cat >msg
fi
?X: Emit the warning, prefixing all lines with '*** '
echo "*** WARNING:" >&4
sed -e 's/^/*** /' <msg >&4
echo "*** " >&4
?X: Save the warning in the logs, which will be shown again at the end
cat msg >>config.msg
echo " " >>config.msg
rm -f msg
EOS
chmod +x warn
$eunicefix warn
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Warn.U
No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fmin: Inlibc
?MAKE: -pick add $@ %<
?S:d_fmin:
?S: This variable conditionally defines the HAS_FMIN symbol, which
?S: indicates to the C program that the fmin() routine is available.
?S:.
?C:HAS_FMIN:
?C: This symbol, if defined, indicates that the fmin routine is
?C: available to do the minimum function.
?C:.
?H:#$d_fmin HAS_FMIN  /**/
?H:.
?LINT:set d_fmin
: see if fmin exists
set fmin d_fmin
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fmin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Cppsym.U,v $
?RCS: Revision 3.0.1.5  1995/05/12  11:59:11  ram
?RCS: patch54: split awk command onto two lines for older awks (ADO)
?RCS:
?RCS: Revision 3.0.1.4  1995/01/11  14:55:57  ram
?RCS: patch45: new cc vs. cpp symbol checking suggested by JHI
?RCS: patch45: added more cpp symbols (JHI)
?RCS:
?RCS: Revision 3.0.1.3  1994/10/29  15:51:32  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: new symbols ardent and titan (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20
```

```
  06:53:32  ram
?RCS: patch30: extended cpp symbol lookup list (JHI)
?RCS: patch30: renamed attrlist symbol into al for brevity
?RCS:
?RCS: Revision 3.0.1.1  1993/12/15  08:14:14  ram
?RCS: patch15: added new cpp symbols __bsdi__ and BSD_NET2
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script called Cppsym, which can be used to
?X: determine whether any in a list of symbols is defined by the C compilation
?X: chain (C preprocessor symbols plus C compiler native ones).
?X: It can determine the status of any symbol, though the symbols in $al
?X: are more easily determined.  If you want to add to $al you can do
?X: it in Myinit.U.
?X:
?MAKE:Cppsym ccsymbols cppsymbols cppccsymbols: run \
 eunicefix Guess awk cat tr sed sort rm startsh osname \
 +cc gccversion test comm uniq echo Options trnl \
 optimize ccflags ldflags libs
?MAKE: -pick add $@ %<
?S:ccsymbols:
?S: The variable contains the symbols
 defined by the C compiler alone.
?S: The symbols defined by cpp or by cc when it calls cpp are not in
?S: this list, see cppsymbols and cppccsymbols.
?S: The list is a space-separated list of symbol=value tokens.
?S:.
?S:cppsymbols:
?S: The variable contains the symbols defined by the C preprocessor
?S: alone.  The symbols defined by cc or by cc when it calls cpp are
?S: not in this list, see ccsymbols and cppccsymbols.
?S: The list is a space-separated list of symbol=value tokens.
?S:.
?S:cppccsymbols:
?S: The variable contains the symbols defined by the C compiler
?S: when it calls cpp.  The symbols defined by the cc alone or cpp
?S: alone are not in this list, see ccsymbols and cppsymbols.
?S: The list is a space-separated list of symbol=value tokens.
?S:.
?T:also symbols i postprocess_cc_v flags
?F:./Cppsym
?F:!Cppsym.true !Cppsym.know !ccsym.com !ccsym.cpp !ccsym.own
: determine known pre-processor and compiler symbols
echo " "
$echo "Guessing which symbols your C compiler and preprocessor
```

```
 define..." >&4
?X:
?X: The symbol list is in alpha order for ease of maintenance...
?X:
?X: Lots of new symbols (mostly rummaged from gcc), courtesy of
?X: Jarkko Hietaniemi <jhi@snakemail.hut.fi> -- RAM, 06/06/94
?X:
?X: If your symbol is mixed case, just add it as-is.
?X: All symbols will be transformed to both all-lower and all-upper.
?X: Also drop any leading/trailing underscores, the scan will try all those.
?X:
$cat <<'EOSH' > Cppsym.know
a29k ABI64 aegis AES_SOURCE AIX AIX32 AIX370
AIX41 AIX42 AIX43 AIX_SOURCE aixpc ALL_SOURCE
alliant alpha am29000 AM29000 AMD64 amiga AMIGAOS AMIX
ansi ANSI_C_SOURCE apollo ardent ARM32 atarist att386 att3b
BeOS BIG_ENDIAN BIT_MSF bsd BSD bsd43 bsd4_2 bsd4_3 BSD4_3 bsd4_4
BSD_4_3 BSD_4_4 BSD_NET2 BSD_TIME BSD_TYPES BSDCOMPAT bsdi
bull c cadmus clipper CMU COFF COMPILER_VERSION
concurrent convex cpu cray CRAY CRAYMPP ctix CX_UX
CYGWIN DGUX DGUX_SOURCE DJGPP dmert DOLPHIN DPX2 DSO
Dynix DynixPTX ELF encore EPI EXTENSIONS FAVOR_BSD
FILE_OFFSET_BITS
 FreeBSD GCC_NEW_VARARGS gcos gcx gimpel
GLIBC GLIBC_MINOR
GNU_SOURCE GNUC GNUC_MINOR GNU_LIBRARY GO32 gould GOULD_PN
H3050R H3050RX hbullx20 hcx host_mips
hp200 hp300 hp700 HP700 hp800 hp9000
hp9000s200 hp9000s300 hp9000s400 hp9000s500
hp9000s700 hp9000s800 hp9k8 hp_osf hppa hpux HPUX_SOURCE
i186 i286 i386 i486 i586 i686 i8086 i80960 i860 I960
IA64 iAPX286 ibm ibm032 ibmesa IBMR2 ibmrt ILP32 ILP64
INLINE_INTRINSICS INTRINSICS INT64 interdata is68k ksr1
LANGUAGE_C LARGE_FILE_API LARGEFILE64_SOURCE
LARGEFILE_SOURCE LFS64_LARGEFILE LFS_LARGEFILE
Linux LITTLE_ENDIAN LONG64 LONG_DOUBLE LONG_LONG
LONGDOUBLE LONGLONG LP64 luna luna88k Lynx
M68000 m68k m88100 m88k M88KBCS_TARGET M_COFF
M_I186 M_I286 M_I386 M_I8086 M_I86 M_I86SM M_SYS3
M_SYS5 M_SYSIII M_SYSV M_UNIX M_XENIX MACH machine MachTen
MATH_HAS_NO_SIDE_EFFECTS
mc300 mc500 mc68000 mc68010 mc68020 mc68030 mc68040
mc68060 mc68k mc68k32 mc700 mc88000 mc88100 merlin
mert MiNT mips MIPS_FPSET MIPS_ISA MIPS_SIM MIPS_SZINT
MIPS_SZLONG
 MIPS_SZPTR MIPSEB MIPSEL MODERN_C motorola
mpeix MSDOS MTXINU MULTIMAX mvs MVS n16 ncl_el ncl_mr
NetBSD news1500 news1700 news1800 news1900 news3700
```

```
news700 news800 news900 NeXT NLS nonstopux ns16000 ns32000
ns32016 ns32332 ns32k nsc32000
OCS88 OEMVS OpenBSD os OS2 OS390 osf OSF1 OSF_SOURCE
pa_risc PA_RISC1_1 PA_RISC2_0 PARAGON parisc
pc532 pdp11 PGC PIC plexus PORTAR posix
POSIX1B_SOURCE POSIX2_SOURCE POSIX4_SOURCE
POSIX_C_SOURCE POSIX_SOURCE POWER
PROTOTYPES PWB pyr QNX R3000 REENTRANT RES Rhapsody RISC6000
riscix riscos RT S390 SA110 scs SCO sequent sgi SGI_SOURCE SH3 sinix
SIZE_INT SIZE_LONG SIZE_PTR SOCKET_SOURCE SOCKETS_SOURCE
sony sony_news sonyrisc sparc sparclite spectrum
stardent stdc STDC_EXT stratos sun sun3 sun386
Sun386i svr3 svr4 SVR4_2 SVR4_SOURCE svr5
SX system SYSTYPE_BSD SYSTYPE_BSD43 SYSTYPE_BSD44
SYSTYPE_SVR4 SYSTYPE_SVR5 SYSTYPE_SYSV SYSV SYSV3 SYSV4 SYSV5
sysV68 sysV88 Tek4132 Tek4300 titan
TM3200 TM5400 TM5600
tower tower32 tower32_200 tower32_600 tower32_700
tower32_800
 tower32_850 tss
u370 u3b u3b2 u3b20 u3b200 u3b20d u3b5
ultrix UMAXV UnicomPBB UnicomPBD UNICOS UNICOSMK
unix UNIX95 UNIX99 unixpc unos
USE_BSD USE_FILE_OFFSET64 USE_GNU USE_ISOC9X USE_LARGEFILE USE_LARGEFILE64
USE_MISC USE_POSIX USE_POSIX199309 USE_POSIX199506 USE_POSIX2
USE_REENTRANT USE_SVID USE_UNIX98 USE_XOPEN USE_XOPEN_EXTENDED
USGr4 USGr4_2
Utek UTek UTS UWIN uxpm uxps vax venix VMESA vms xenix Xenix286
XOPEN_SOURCE XOPEN_SOURCE_EXTENDED XPG2 XPG2_EXTENDED
XPG3 XPG3_EXTENDED XPG4 XPG4_EXTENDED
z8000
EOSH
?X: Maybe put other stuff here too.
cat <<EOSH >>Cppsym.know
$osname
EOSH
./tr '[a-z]' '[A-Z]' < Cppsym.know > Cppsym.a
./tr '[A-Z]' '[a-z]' < Cppsym.know > Cppsym.b
$cat Cppsym.know > Cppsym.c
$cat Cppsym.a Cppsym.b Cppsym.c | $tr ' ' $trnl | $sort | $uniq > Cppsym.know
$rm -f Cppsym.a Cppsym.b Cppsym.c
cat <<EOSH > Cppsym
$startsh
if $test \$# -gt 0; then
   echo \$* | $tr " " "$trnl" | ./Cppsym.try > Cppsym.got
   if $test -s Cppsym.got; then
       $rm -f Cppsym.got
```

```
        exit 0
    fi
    $rm -f Cppsym.got
    exit 1
else
    $tr " " "$trnl" | ./Cppsym.try
    exit 0
fi
EOSH
chmod +x Cppsym
$eunicefix Cppsym
?X: The below awk script will die a horrible death if
?X: some of the tested symbols are not long ints.
?X: Also, we do not make difference between just defined and defined zero.
cat <<EOSH > Cppsym.try
$startsh
cat <<'EOCP' > try.c
#include <stdio.h>
int main() {
EOCP
?X: The length($1) command guards against possible empty entries.
?X: The awk snippet is know to give heartburn to UNICOS/mk awk.
$awk \\
EOSH
cat <<'EOSH' >> Cppsym.try
'length($1) > 0 {
    printf "#ifdef %s\n#if %s+0\nprintf(\"%s=%%ld\\n\", (long)%s);\n#else\nprintf(\"%s\\n\");\n#endif\n#endif\n", $1,
$1, $1, $1, $1
    printf "#ifdef _%s\n#if _%s+0\nprintf(\"_%s=%%ld\\n\",
(long)_%s);\n#else\nprintf(\"_%s\\n\");\n#endif\n#endif\n", $1, $1, $1, $1, $1
    printf "#ifdef __%s\n#if __%s+0\nprintf(\"__%s=%%ld\\n\",
(long)__%s);\n#else\nprintf(\"__%s\\n\");\n#endif\n#endif\n",
 $1, $1, $1, $1, $1
    printf "#ifdef __%s__\n#if __%s__+0\nprintf(\"__%s__=%%ld\\n\",
(long)__%s__);\n#else\nprintf(\"__%s__\\n\");\n#endif\n#endif\n", $1, $1, $1, $1, $1
}'  >> try.c
echo 'return 0;}' >> try.c
EOSH
cat <<EOSH >> Cppsym.try
flags="$ccflags"
case "$osname-$gccversion" in
irix-) flags="\$flags -woff 1178" ;;
os2-*) flags="\$flags -Zlinker /PM:VIO" ;;
esac
$cc -o try $optimize \$flags $ldflags try.c $libs && $run ./try
EOSH
chmod +x Cppsym.try
$eunicefix Cppsym.try
```

```
./Cppsym < Cppsym.know > Cppsym.true
: now check the C compiler for additional symbols
?X: suggested by Jarkko Hietaniemi <jhi@snakemail.hut.fi>, thanks!
postprocess_cc_v="
case "$osname" in
aix) postprocess_cc_v="|$tr , ' '" ;;
esac
$cat >ccsym <<EOS
$startsh
$cat >tmp.c <<EOF
extern int foo;
EOF
for i in \`$cc -v -c tmp.c 2>&1 $postprocess_cc_v\`
do
 case "\$i" in
 -D*) echo "\$i" | $sed 's/^-D//';;
 -A*) $test "$gccversion" && echo "\$i" | $sed 's/^-A//' | $sed 's/\(.*\)(\(.*\))/\1=\2/';;
 esac
done
$rm
 -f try.c
EOS
postprocess_cc_v="
chmod +x ccsym
$eunicefix ccsym
./ccsym > ccsym1.raw
?X: AIX complains if $uniq is passed an empty file.  ($sort apparently
?X: doesn't care.)  --AD  14 July 1998
if $test -s ccsym1.raw; then
	$sort ccsym1.raw | $uniq >ccsym.raw
else
	mv ccsym1.raw ccsym.raw
fi

?X: canonicalize symbols for easier sort/uniq/comm usage: append =1 if no = sign
?X: the awk script must be on two lines for older awk programs, sigh! -- ADO
$awk '/\=/ { print $0; next }
 { print $0"=1" }' ccsym.raw >ccsym.list
$awk '/\=/ { print $0; next }
 { print $0"=1" }' Cppsym.true >ccsym.true
$comm -13 ccsym.true ccsym.list >ccsym.own
$comm -12 ccsym.true ccsym.list >ccsym.com
$comm -23 ccsym.true ccsym.list >ccsym.cpp
also="
if $test -z ccsym.raw; then
 echo "Your C compiler doesn't seem to define any symbols!" >&4
 echo " "
 echo "However, your C preprocessor defines the following symbols:"
```

```
 $cat Cppsym.true
    ccsymbols="
 cppsymbols=`$cat Cppsym.true`
       cppsymbols=`echo
 $cppsymbols`
 cppccsymbols="$cppsymbols"
else
 if $test -s ccsym.com; then
  echo "Your C compiler and pre-processor define these symbols:"
  $sed -e 's/\(..*\)=.*/\1/' ccsym.com
  also='also '
  symbols='ones'
  cppccsymbols=`$cat ccsym.com`
  cppccsymbols=`echo $cppccsymbols`
  $test "$silent" || sleep 1
 fi
 if $test -s ccsym.cpp; then
  $test "$also" && echo " "
  echo "Your C pre-processor ${also}defines the following symbols:"
  $sed -e 's/\(..*\)=.*/\1/' ccsym.cpp
  also='further '
  cppsymbols=`$cat ccsym.cpp`
  cppsymbols=`echo $cppsymbols`
  $test "$silent" || sleep 1
 fi
 if $test -s ccsym.own; then
  $test "$also" && echo " "
  echo "Your C compiler ${also}defines the following cpp symbols:"
  $sed -e 's/\(..*\)=1/\1/' ccsym.own
  $sed -e 's/\(..*\)=.*/\1/' ccsym.own | $uniq >>Cppsym.true
         ccsymbols=`$cat ccsym.own`
         ccsymbols=`echo $ccsymbols`
  $test "$silent" || sleep 1
 fi
fi
$rm -f Cppsym.know Cppsym.true
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Cppsym.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_shmat.U,v 3.0.1.3 1995/07/25 14:04:23 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_shmat.U,v $
?RCS: Revision 3.0.1.3  1995/07/25  14:04:23  ram
?RCS: patch56: use findhdr to find <sys/shm.h>, to get the right one (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:18:56  ram
?RCS: patch27: added new symbol HAS_SHMAT_PROTOTYPE (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:54:18  ram
?RCS: patch23: new Shmat_t symbol to declare return type of shmat()
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:18  ram
?RCS: Baseline for dist 3.0 netwide
 release.
?RCS:
?MAKE:d_shmat shmattype d_shmatprototype: Inlibc cat +cc +ccflags \
 rm cppstdin cppflags cppminus Findhdr Setvar contains
?MAKE: -pick add $@ %<
?S:d_shmat:
?S: This variable conditionally defines the HAS_SHMAT symbol, which
?S: indicates to the C program that the shmat() routine is available.
?S:.
?S:shmattype:
?S: This symbol contains the type of pointer returned by shmat().
?S: It can be 'void *' or 'char *'.
?S:.
?S:d_shmatprototype:
?S: This variable conditionally defines the HAS_SHMAT_PROTOTYPE
?S: symbol, which indicates that sys/shm.h has a prototype for
?S: shmat.
?S:.
?C:HAS_SHMAT:
?C: This symbol, if defined, indicates that the shmat() routine is
?C: available to attach a shared memory segment to the process space.
?C:.
?C:Shmat_t:
?C: This symbol holds the return type of the shmat() system call.
?C: Usually set to 'void *' or 'char *'.
?C:.
?C:HAS_SHMAT_PROTOTYPE:
?C: This symbol, if defined, indicates that the sys/shm.h includes
?C: a prototype for shmat().
  Otherwise, it is up to the program to
?C: guess one.  Shmat_t shmat(int, Shmat_t, int) is a good guess,
?C: but not always right so it should be emitted by the program only
```

```
?C: when HAS_SHMAT_PROTOTYPE is not defined to avoid conflicting defs.
?C:.
?H:#$d_shmat HAS_SHMAT  /**/
?H:#define Shmat_t $shmattype /**/
?H:#$d_shmatprototype HAS_SHMAT_PROTOTYPE /**/
?H:.
?LINT:set d_shmat d_shmatprototype
?T:xxx
: see if shmat exists
set shmat d_shmat
eval $inlibc
: see what shmat returns
case "$d_shmat" in
"$define")
 $cat >shmat.c <<'END'
#include <sys/shm.h>
void *shmat();
END
 if $cc $ccflags -c shmat.c >/dev/null 2>&1; then
  shmattype='void *'
 else
  shmattype='char *'
 fi
 echo "and it returns ($shmattype)." >&4
 : see if a prototype for shmat is available
 xxx=`./findhdr sys/shm.h`
 $cppstdin $cppflags $cppminus < $xxx > shmat.c 2>/dev/null
 if $contains 'shmat.*(' shmat.c >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 $rm -f shmat.[co]
 ;;
*)
 val="$undef"
 ;;
esac
set
 d_shmatprototype
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_shmat.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_setpwent_r.U,v 0RCS:

```
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_setpwent_r setpwent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_pwd extern_C
?MAKE: -pick add $@ %<
?S:d_setpwent_r:
?S: This variable conditionally defines the HAS_SETPWENT_R symbol,
?S: which indicates to the C program that the setpwent_r()
?S: routine is available.
?S:.
?S:setpwent_r_proto:
?S: This variable encodes the prototype of setpwent_r.
?S: It is zero if d_setpwent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setpwent_r
?S: is defined.
?S:.
?C:HAS_SETPWENT_R:
?C: This symbol, if defined, indicates that the setpwent_r routine
?C: is available to
 setpwent re-entrantly.
?C:.
?C:SETPWENT_R_PROTO:
?C: This symbol encodes the prototype of setpwent_r.
?C: It is zero if d_setpwent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setpwent_r
?C: is defined.
?C:.
?H:#$d_setpwent_r HAS_SETPWENT_R /**/
?H:#define SETPWENT_R_PROTO $setpwent_r_proto /**/
?H:.
?T:try hdrs d_setpwent_r_proto
: see if setpwent_r exists
set setpwent_r d_setpwent_r
eval $inlibc
case "$d_setpwent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_pwd pwd.h"
 case "$d_setpwent_r_proto:$usethreads" in
 ":define") d_setpwent_r_proto=define
  set d_setpwent_r_proto setpwent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
```

```
 case "$d_setpwent_r_proto" in
 define)
 case "$setpwent_r_proto" in
 "|0) try='int setpwent_r(FILE**);'
 ./protochk "$extern_C $try" $hdrs && setpwent_r_proto=I_H ;;
 esac
 case "$setpwent_r_proto" in
 "|0) try='void setpwent_r(FILE**);'
 ./protochk "$extern_C $try" $hdrs && setpwent_r_proto=V_H ;;
 esac
 case "$setpwent_r_proto"
 in
 "|0) d_setpwent_r=undef
  setpwent_r_proto=0
  echo "Disabling setpwent_r, cannot determine prototype." >&4 ;;
 * ) case "$setpwent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) setpwent_r_proto="REENTRANT_PROTO_$setpwent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "setpwent_r has no prototype, not using it." >&4 ;;
  esac
  d_setpwent_r=undef
  setpwent_r_proto=0
  ;;
 esac
 ;;
*) setpwent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_setpwent_r.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: sunscanf.U,v 3.0 1993/08/18 12:09:54 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.

```
?RCS:
?RCS: $Log: sunscanf.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:sunscanf: cat rm Compile Myread test Setvar
?MAKE: -pick add $@ %<
?S:sunscanf:
?S: This variable is set if this system runs with the Sun version
?S: of scanf.
?S:.
?C:SUNSCANF:
?C: This variable is set if this system runs with the Sun version
?C: of scanf.
?C:.
?H:#$sunscanf SUNSCANF  /**/
?H:.
?LINT:set sunscanf
?F:!scanf
: check to see what
 kinda scanf your using.
echo " "
echo "Checking to see what flavor of scanf you have..." >&4
$cat >scanf.c <<'EOCP'
int main()
{
 float value;

 sscanf("4.5","%g",&value);
 printf("%d\n", value == 4.5);
}
EOCP
set scanf
if eval $compile_ok; then
 if $test `./scanf` = 0; then
  echo "Hmm.. seems you are not running the USG flavor.."
  val="$undef"
 else
  echo "Uh... you are running the USG flavor of scanf."
  val="$define"
 fi
else
 echo "(I can't seem to compile the test program... Guessing)"
 val="$undef"
fi
set sunscanf
eval $setvar
$rm -f scanf*
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/sunscanf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: manfmt.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: manfmt.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  16:11:57  ram
?RCS: patch61: don't ask for AFS when they choose to not install pages
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:16:52  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:39:20  ram
?RCS: patch49: new installmanfmt and AFS-lookup for formatted man pages
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS:
 Revision 3.0.1.2  1994/08/29  16:30:31  ram
?RCS: patch32: now uses installation prefix for default setting
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:09:22  ram
?RCS: patch10: allows for L1 man page extension (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:manfmt manfmtexp installmanfmt: Getfile Loc Oldconfig cat manext \
 spackage Prefixit prefixexp Prefixup afs test
?MAKE: -pick add $@ %<
?Y:TOP
?S:manfmt:
?S: This variable contains the name of the directory in which formatted
?S: manual pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command. Note
?S: that you may have to do ~name substitution. Use manfmtexp otherwise.
?S:.
?S:manfmtexp:
```

```
?S: This is the same as the manfmt variable, but is filename expanded
?S: at configuration time, for programs not willing to deal with it at
?S: run-time.
?S:.
?S:installmanfmt:
?S: This variable is really
 the same as manfmtexp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: mansrcexp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change manext
?T:lookpath
: determine where manual pages go
set manfmt manfmt
eval $prefixit
$cat <<EOM

$spackage has pre-formatted manual pages.  If you don't want these installed,
answer 'none' to the next question.

EOM
case "$manfmt" in
")
 lookpath="$prefixexp/catman/man1 $prefixexp/man/cat1"
 lookpath="$lookpath $prefixexp/catman/u_man/man1"
 lookpath="$lookpath $prefixexp/catman/l_man/man1"
 lookpath="$lookpath $prefixexp/catman/cat1 /usr/catman/local/man1"
 lookpath="$lookpath /usr/catman/manl /usr/man/cat1"
 lookpath="$lookpath /usr/catman/mann /usr/catman/l_man/man1"
 lookpath="$lookpath /usr/catman/u_man/man1 /usr/catman/man1"
 dflt=`./loc . none $lookpath`
 set dflt
 eval $prefixup
 ;;
*)  dflt="$manfmt"
 ;;
esac
fn=dn~
rp='Where
 do pre-formatted manual pages go?'
. ./getfile
if test "X$manfmtexp" != "X$ansexp"; then
 installmanfmt="
fi
manfmt="$ans"
manfmtexp="$ansexp"
if $afs && $test "$manfmt"; then
```

```
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
manual pages reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installmanfmt" in
 ") dflt=`echo $manfmtexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installmanfmt";;
 esac
 fn=de~
 rp='Where will pre-formatted man pages be installed?'
 . ./getfile
 installmanfmt="$ans"
else
 installmanfmt="$manfmtexp"
fi

case "$manfmt" in
") manext='0';;
*l) manext=l;;
*n) manext=n;;
*o) manext=l;;
*p) manext=n;;
*C) manext=C;;
*L) manext=L;;
*L1) manext=L1;;
*) manext=1;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/manfmt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2005 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_clearenv: Inlibc
?MAKE: -pick add $@ %<
?S:d_clearenv:
?S: This variable conditionally defines the HAS_CLEARENV symbol, which
?S: indicates to the C program that the clearenv () routine is available.
```

```
?S:.
?C:HAS_CLEARENV:
?C: This symbol, if defined, indicates that the clearenv () routine is
?C: available for use.
?C:.
?H:#$d_clearenv HAS_CLEARENV  /**/
?H:.
?LINT:set d_clearenv
: see if clearenv exists
set clearenv d_clearenv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_clearenv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_attribut.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 2020, Raphael Manfredi, Karl Williamson
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_non_int_bitfields: \
    Myread Oldconfig cat cc ccflags Setvar compiler_warning rm_try
?MAKE: -pick add $@ %<
?S:d_non_int_bitfields:
?S: This variable conditionally defines HAS_NON_INT_BITFIELDS
?S: which indicates that the C compiler accepts struct bitfields of sizes
?S: that aren't 'int' or 'unsigned int'
?S:.
?C:HAS_NON_INT_BITFIELDS:
?C: This symbol, if defined, indicates that the C compiler accepts, without
?C: error or warning, struct bitfields
 that are declared with sizes other
?C: than plain 'int'; for example 'unsigned char' is accepted.
?C:.
?H:?%<:#$d_non_int_bitfields HAS_NON_INT_BITFIELDS /**/
?H:.
?LINT:set d_non_int_bitfields
?F:!try.out !try.c
: Look for non 'int'-sized bitfields
case "$d_non_int_bitfields" in
")
```

```
echo " " >&4
echo "Checking whether your compiler can handle struct bitfields that aren't 'int' or 'unsigned int' ..." >&4
$cat >try.c <<'EOCP'
#include <stdio.h>
struct foo {
   unsigned char byte:1;
   unsigned short halfword:1;
} bar;
EOCP
if $cc $ccflags -c try.c >try.out 2>&1 ; then
 if $compiler_warning try.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support struct bitfields that aren't 'int' or 'unsigned int'." >&4
  val="$undef"
 else
  echo "Your C compiler supports struct bitfields besides 'int' and 'unsigned int'." >&4
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand struct bitfields that aren't 'int' or 'unsigned int' at all." >&4
 val="$undef"
fi
;;
*)
 val="$d_non_int_bitfields" ;;
esac
set d_non_int_bitfields
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_bitfield.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fdclose: Inlibc
?MAKE: -pick add $@ %<
?S:d_fdclose:
?S: This variable conditionally defines the HAS_FDCLOSE symbol, which
?S: indicates to the C program that the fdclose() routine is available.
?S:.
?C:HAS_FDCLOSE:
?C: This symbol, if defined, indicates that the fdclose routine is
?C: available to free a FILE structure without closing the underlying
?C: file descriptor.  This function appeared in FreeBSD 10.2.
?C:.
```

```
?H:#$d_fdclose HAS_FDCLOSE  /**/
?H:.
?LINT:set d_fdclose
: see if fdclose exists
set fdclose d_fdclose
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fdclose.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_open3.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:37:12  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  13:58:26  ram
?RCS: patch56: added knowledge of the O_NONBLOCK symbol
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_open3: test +cc cat +cppflags h_fcntl h_sysfile rm Setvar Findhdr Warn
?MAKE: -pick add $@ %<
?X: It would be easy to separate the h_O_stuff from this.
?X: Is there a reason
 to do so? -- HMS
?S:d_open3:
?S: This variable conditionally defines the HAS_OPEN3 manifest constant,
?S: which indicates to the C program that the 3 argument version of
?S: the open(2) function is available.
?S:.
?C:HAS_OPEN3 (OPEN3):
?C: This manifest constant lets the C program know that the three
?C: argument form of open(2) is available.
?C:.
?H:#$d_open3 HAS_OPEN3  /**/
?H:.
```

```
?W:%<:O_RDONLY O_WRONLY O_RDWR O_NDELAY O_APPEND O_SYNC O_CREAT O_TRUNC
?W:%<:O_EXCL O_NONBLOCK
?F:!open3
?LINT:set d_open3
?LINT:change h_fcntl h_sysfile
: Locate the flags for 'open()'
echo " "
$cat >open3.c <<'EOCP'
#include <sys/types.h>
#ifdef I_FCNTL
#include <fcntl.h>
#endif
#ifdef I_SYS_FILE
#include <sys/file.h>
#endif
int main() {
 if(O_RDONLY);
#ifdef O_TRUNC
 exit(0);
#else
 exit(1);
#endif
}
EOCP
: check sys/file.h first to get FREAD on Sun
if $test `./findhdr sys/file.h` && \
  $cc $cppflags "-DI_SYS_FILE" -o open3 open3.c >/dev/null 2>&1 ; then
 h_sysfile=true;
 echo "<sys/file.h> defines the
 O_* constants..." >&4
 if ./open3; then
  echo "and you have the 3 argument form of open()." >&4
  val="$define"
 else
  echo "but not the 3 argument form of open().  Oh, well." >&4
  val="$undef"
 fi
elif $test `./findhdr fcntl.h` && \
  $cc "-DI_FCNTL" -o open3 open3.c >/dev/null 2>&1 ; then
 h_fcntl=true;
 echo "<fcntl.h> defines the O_* constants..." >&4
 if ./open3; then
  echo "and you have the 3 argument form of open()." >&4
  val="$define"
 else
  echo "but not the 3 argument form of open().  Oh, well." >&4
  val="$undef"
 fi
```

```
else
 val="$undef"
 ./warn "I can't find the O_* constant definitions!  You got problems."
fi
set d_open3
eval $setvar
$rm -f open3*
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_open3.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setservent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_setservent_r setservent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_setservent_r:
?S: This variable conditionally defines the HAS_SETSERVENT_R symbol,
?S: which indicates to the C program that the setservent_r()
?S: routine is available.
?S:.
?S:setservent_r_proto:
?S: This variable encodes the prototype of setservent_r.
?S: It is zero if d_setservent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setservent_r
?S: is defined.
?S:.
?C:HAS_SETSERVENT_R:
?C: This symbol, if defined, indicates that the setservent_r routine
?C: is
 available to setservent re-entrantly.
?C:.
?C:SETSERVENT_R_PROTO:
?C: This symbol encodes the prototype of setservent_r.
?C: It is zero if d_setservent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setservent_r
?C: is defined.
?C:.
?H:#$d_setservent_r HAS_SETSERVENT_R /**/
?H:#define SETSERVENT_R_PROTO $setservent_r_proto /**/
```

```
?H:.
?T:try hdrs d_setservent_r_proto
: see if setservent_r exists
set setservent_r d_setservent_r
eval $inlibc
case "$d_setservent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_setservent_r_proto:$usethreads" in
 ":define") d_setservent_r_proto=define
  set d_setservent_r_proto setservent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_setservent_r_proto" in
 define)
 case "$setservent_r_proto" in
 "|0) try='int setservent_r(int, struct servent_data*);'
 ./protochk "$extern_C $try" $hdrs && setservent_r_proto=I_ID ;;
 esac
 case "$setservent_r_proto" in
 "|0) try='void
 setservent_r(int, struct servent_data*);'
 ./protochk "$extern_C $try" $hdrs && setservent_r_proto=V_ID ;;
 esac
 case "$setservent_r_proto" in
 "|0) d_setservent_r=undef
  setservent_r_proto=0
  echo "Disabling setservent_r, cannot determine prototype." >&4 ;;
 * ) case "$setservent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) setservent_r_proto="REENTRANT_PROTO_$setservent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "setservent_r has no prototype, not using it." >&4 ;;
  esac
  d_setservent_r=undef
  setservent_r_proto=0
  ;;
 esac
 ;;
*) setservent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_setservent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_sigprocmask: Inlibc
?MAKE: -pick add $@ %<
?S:d_sigprocmask:
?S: This variable conditionally defines HAS_SIGPROCMASK
?S: if sigprocmask() is available to examine or change the signal mask
?S: of the calling process.
?S:.
?C:HAS_SIGPROCMASK:
?C: This symbol, if defined, indicates that the sigprocmask
?C: system call is available to examine or change the signal mask
?C: of the calling process.
?C:.
?H:#$d_sigprocmask HAS_SIGPROCMASK  /**/
?H:.
?LINT:set d_sigprocmask
: see if sigprocmask exists
set sigprocmask d_sigprocmask
eval
 $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_sigprocmask.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_rdchk.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_rdchk.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_rdchk: Inlibc
?MAKE: -pick add $@ %<
?S:d_rdchk:
?S: This variable conditionally defines the HAS_RDCHK symbol, which
?S: indicates to the C program that the rdchk() routine is available
?S: to find out if there is input pending on an IO channel.
?S:.
?C:HAS_RDCHK (RDCHK):
?C: This symbol, if defined, indicates that the rdchk routine
 is available
?C: to find out if there is input pending on an IO channel.  Generally
?C: the routine is used only if FIONREAD and O_NDELAY aren't available.
?C:.
?H:#$d_rdchk HAS_RDCHK  /**/
?H:.
?LINT:set d_rdchk
: see if rdchk exists
set rdchk d_rdchk
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_rdchk.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fs_data_s: Hasstruct i_sysparam i_sysmount i_systypes Setvar
?MAKE: -pick add $@ %<
?S:d_fs_data_s:
?S: This variable conditionally defines the HAS_STRUCT_FS_DATA symbol,
?S: which indicates that the struct fs_data is supported.
?S:.
?C:HAS_STRUCT_FS_DATA:
?C: This symbol, if defined, indicates that the struct fs_data
?C: to do statfs() is supported.
?C:.
```

```
?H:#$d_fs_data_s HAS_STRUCT_FS_DATA /**/
?H:.
?LINT:set d_fs_data_s
: Check for fs_data_s
echo " "
echo "Checking to see if your system supports struct fs_data..." >&4
set d_fs_data_s fs_data $i_systypes sys/types.h $i_sysparam sys/param.h $i_sysmount sys/mount.h
eval $hasstruct
case "$d_fs_data_s" in
"$define")      echo "Yes, it does."   ;;
*)
            echo "No, it doesn't." ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fs_data_s.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_shadow.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_prot: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_prot:
?S: This variable conditionally defines the I_PROT symbol, and indicates
?S: whether a C program should include <prot.h>.
?S:.
?C:I_PROT:
?C: This symbol, if defined, indicates that <prot.h> exists and
?C: should be included.
?C:.
?H:#$i_prot I_PROT  /**/
?H:.
?LINT:set i_prot
: see if this is a prot.h system
set prot.h i_prot
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_prot.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_sresgproto: Hasproto i_unistd
?MAKE: -pick add $@ %<
?S:d_sresgproto:
?S: This variable conditionally defines the HAS_SETRESGID_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the setresgid() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_SETRESGID_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the setresgid() function.  Otherwise, it is up
?C: to the program to supply one.  Good guesses are
?C:  extern
 int setresgid(uid_t ruid, uid_t euid, uid_t suid);
?C:.
?H:#$d_sresgproto HAS_SETRESGID_PROTO /**/
?H:.
?LINT:set d_sresgproto
: see if prototype for setresgid is available
echo " "
set d_sresgproto setresgid $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_sresgproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_poll.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_poll: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_poll:
```

```
?S: This variable conditionally defines the I_POLL symbol, and indicates
?S: whether a C program should include <poll.h>.
?S:.
?C:I_POLL:
?C: This symbol, if defined, indicates that <poll.h> exists and
?C: should be included. (see also HAS_POLL)
?C:.
?H:#$i_poll I_POLL  /**/
?H:.
?LINT:set i_poll
: see if this is a poll.h system
set poll.h i_poll
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_poll.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setnent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_setnent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setnent: Inlibc
?MAKE: -pick add $@ %<
?S:d_setnent:
?S: This variable conditionally defines HAS_SETNETENT if setnetent() is
?S: available.
?S:.
?C:HAS_SETNETENT:
?C: This symbol, if defined, indicates that the setnetent() routine is
?C: available.
?C:.
?H:#$d_setnent HAS_SETNETENT  /**/
?H:.
?LINT:set d_setnent
: see if setnetent exists
set
```

```
 setnetent d_setnent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_setnent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethostbyname_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_gethostbyname_r gethostbyname_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_gethostbyname_r:
?S: This variable conditionally defines the HAS_GETHOSTBYNAME_R symbol,
?S: which indicates to the C program that the gethostbyname_r()
?S: routine is available.
?S:.
?S:gethostbyname_r_proto:
?S: This variable encodes the prototype of gethostbyname_r.
?S: It is zero if d_gethostbyname_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gethostbyname_r
?S: is defined.
?S:.
?C:HAS_GETHOSTBYNAME_R:
?C: This symbol, if defined, indicates
 that the gethostbyname_r routine
?C: is available to gethostbyname re-entrantly.
?C:.
?C:GETHOSTBYNAME_R_PROTO:
?C: This symbol encodes the prototype of gethostbyname_r.
?C: It is zero if d_gethostbyname_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gethostbyname_r
?C: is defined.
?C:.
?H:#$d_gethostbyname_r HAS_GETHOSTBYNAME_R /**/
?H:#define GETHOSTBYNAME_R_PROTO $gethostbyname_r_proto /**/
?H:.
?T:try hdrs d_gethostbyname_r_proto
: see if gethostbyname_r exists
set gethostbyname_r d_gethostbyname_r
eval $inlibc
```

```
case "$d_gethostbyname_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_gethostbyname_r_proto:$usethreads" in
 ":define") d_gethostbyname_r_proto=define
  set d_gethostbyname_r_proto gethostbyname_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_gethostbyname_r_proto" in
 define)
 case "$gethostbyname_r_proto" in
 "|0) try='int gethostbyname_r(const char*, struct hostent*, char*, size_t, struct
 hostent**, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyname_r_proto=I_CSBWRE ;;
 esac
 case "$gethostbyname_r_proto" in
 "|0) try='struct hostent* gethostbyname_r(const char*, struct hostent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyname_r_proto=S_CSBIE ;;
 esac
 case "$gethostbyname_r_proto" in
 "|0) try='int gethostbyname_r(const char*, struct hostent*, struct hostent_data*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyname_r_proto=I_CSD ;;
 esac
 case "$gethostbyname_r_proto" in
 "|0) d_gethostbyname_r=undef
  gethostbyname_r_proto=0
  echo "Disabling gethostbyname_r, cannot determine prototype." >&4 ;;
 * ) case "$gethostbyname_r_proto" in
  REENTRANT_PROTO*) ;;
  *) gethostbyname_r_proto="REENTRANT_PROTO_$gethostbyname_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "gethostbyname_r has no prototype, not using it." >&4 ;;
  esac
  d_gethostbyname_r=undef
  gethostbyname_r_proto=0
  ;;
 esac
 ;;
*) gethostbyname_r_proto=0
 ;;
esac
```

Found

in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_gethostbyname_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Guess.U,v 3.0.1.5 1995/07/25 13:37:14 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Guess.U,v $
?RCS: Revision 3.0.1.5  1995/07/25  13:37:14  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  15:53:55  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: call ./xenix explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.3  1993/12/15  08:14:35  ram
?RCS: patch15: variable d_bsd was not always set properly
?RCS:
?RCS: Revision 3.0.1.2  1993/08/30  08:57:14  ram
?RCS:
 patch8: fixed comment which wrongly attributed the usrinc symbol
?RCS: patch8: no more ugly messages when no /usr/include/ctype.h
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:37:37  ram
?RCS: patch7: added support for OSF/1 machines
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit hazards some guesses as to what the general nature of the system
?X: is.  The information it collects here is used primarily to establish default
?X: answers to other questions.
?X:
?MAKE:Guess d_eunice d_xenix d_bsd: cat test echo n c contains \
 rm Loc eunicefix tr sysroot
?MAKE: -pick add $@ %<
?S:d_eunice:
?S: This variable conditionally defines the symbols EUNICE and VAX, which
?S: alerts the C program that it must deal with idiosyncrasies of VMS.
```

```
?S:.
?S:d_xenix:
?S: This variable conditionally defines the symbol XENIX, which alerts
?S: the C program that it runs under Xenix.
?S:.
?S:d_bsd:
?S: This symbol conditionally defines the
 symbol BSD when running on a
?S: BSD system.
?S:.
?C:EUNICE:
?C: This symbol, if defined, indicates that the program is being compiled
?C: under the EUNICE package under VMS.  The program will need to handle
?C: things like files that don't go away the first time you unlink them,
?C: due to version numbering.  It will also need to compensate for lack
?C: of a respectable link() command.
?C:.
?X: Should we define VMS here?  Is Eunice actually used anymore?
?X:?C:VMS:
?X:?C: This symbol, if defined, indicates that the program is running under
?X:?C: VMS.  It is currently only set in conjunction with the EUNICE symbol.
?X:?C:.
?C:XENIX:
?C: This symbol, if defined, indicates that the program is running under
?C: Xenix (at least 3.0 ?).
?C:.
?X:  We don't use BSD in the perl source.  It's too vague, and already
?X:  defined in some header files anyway (e.g. NetBSD).  This just gives
?X:  us a spurious redefinition error upon compilation.
?X: --Andy Dougherty  Feb 11, 1998
?X: ?C:BSD:
?X:
 ?C: This symbol, if defined, indicates that the program is running under
?X: ?C: a BSD system.
?X: ?C:.
?H:#$d_eunice EUNICE  /**/
?X:?H:#$d_eunice VMS  /**/
?H:#$d_xenix XENIX  /**/
?X: ?H:#$d_bsd BSD  /**/
?H:.
?F:./bsd ./usg ./v7 ./osf1 ./eunice ./xenix ./venix ./os2
?T:xxx
: make some quick guesses about what we are up against
echo " "
$echo $n "Hmm...  $c"
echo exit 1 >bsd
echo exit 1 >usg
echo exit 1 >v7
```

```
echo exit 1 >osf1
echo exit 1 >eunice
echo exit 1 >xenix
echo exit 1 >venix
echo exit 1 >os2
d_bsd="$undef"
?X:
?X: Do not use 'usrinc', or we get a circular dependency. because
?X: usrinc is defined in usrinc.U, which relies on us...
?X:
$cat $sysroot/usr/include/signal.h $sysroot/usr/include/sys/signal.h >foo 2>/dev/null
if test -f /osf_boot || $contains 'OSF/1' $sysroot/usr/include/ctype.h >/dev/null 2>&1
then
 echo "Looks kind of like an OSF/1 system, but we'll see..."
 echo exit 0 >osf1
elif test `echo abc | $tr a-z A-Z` = Abc ; then
 xxx=`./loc addbib blurfl $pth`
 if $test
 -f $xxx; then
 echo "Looks kind of like a USG system with BSD features, but we'll see..."
  echo exit 0 >bsd
  echo exit 0 >usg
 else
  if $contains SIGTSTP foo >/dev/null 2>&1 ; then
   echo "Looks kind of like an extended USG system, but we'll see..."
  else
   echo "Looks kind of like a USG system, but we'll see..."
  fi
  echo exit 0 >usg
 fi
elif $contains SIGTSTP foo >/dev/null 2>&1 ; then
 echo "Looks kind of like a BSD system, but we'll see..."
 d_bsd="$define"
 echo exit 0 >bsd
else
 echo "Looks kind of like a Version 7 system, but we'll see..."
 echo exit 0 >v7
fi
case "$eunicefix" in
*unixtovms*)
 $cat <<'EOI'
There is, however, a strange, musty smell in the air that reminds me of
something...hmm...yes...I've got it...there's a VMS nearby, or I'm a Blit.
EOI
 echo exit 0 >eunice
 d_eunice="$define"
: it so happens the Eunice I know will not run shell scripts in Unix format
 ;;
```

```
*)
 echo " "
 echo "Congratulations.  You aren't running Eunice."
 d_eunice="$undef"
 ;;
esac
: Detect
 OS2.  The p_ variable is set above in the Head.U unit.
: Note that this also -- wrongly -- detects e.g. dos-djgpp, which also uses
: semicolon as a patch separator
case "$p_" in
:) ;;
*)
 $cat <<'EOI'
I have the feeling something is not exactly right, however...don't tell me...
lemme think...does HAL ring a bell?...no, of course, you're only running OS/2!
(Or you may be running DOS with DJGPP.)
EOI
 echo exit 0 >os2
 ;;
esac
if test -f /xenix; then
 echo "Actually, this looks more like a XENIX system..."
 echo exit 0 >xenix
 d_xenix="$define"
else
 echo " "
 echo "It's not Xenix..."
 d_xenix="$undef"
fi
chmod +x xenix
$eunicefix xenix
if test -f /venix; then
 echo "Actually, this looks more like a VENIX system..."
 echo exit 0 >venix
else
 echo " "
 if ./xenix; then
  : null
 else
  echo "Nor is it Venix..."
 fi
fi
chmod +x bsd usg v7 osf1 eunice xenix venix os2
$eunicefix bsd usg v7 osf1 eunice xenix venix os2
$rm -f foo
```

Found in path(s):

* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Guess.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_semget.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_semget.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_semget: Inlibc
?MAKE: -pick add $@ %<
?S:d_semget:
?S: This variable conditionally defines the HAS_SEMGET symbol, which
?S: indicates to the C program that the semget() routine is available.
?S:.
?C:HAS_SEMGET:
?C: This symbol, if defined, indicates that the semget() routine is
?C: available to get a set of semaphores.
?C:.
?H:#$d_semget
 HAS_SEMGET /**/
?H:.
?LINT:set d_semget
: see if semget exists
set semget d_semget
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_semget.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Prefixup.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
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```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Prefixup.U,v $
?RCS: Revision 3.0.1.1  1995/01/30  14:30:40  ram
?RCS: patch49: created
?RCS:
?X:
?X: Used as: "set dflt; eval $prefixup" to set $dflt to be $prefix/dir
?X: instead of $prefixexp/dir, in case portability was involved somehow
?X: and $prefix uses ~name expansion.
?X:
?MAKE:Prefixup: prefix prefixexp
?MAKE: -pick add $@ %<
?LINT:define prefixup
?S:prefixup:
?S: This shell variable is used internally by Configure to reset
?S: the leading
 installation prefix correctly when $prefix uses
?S: ~name expansion.
?S:  set dflt
?S:  eval $prefixup
?S: That will set $dflt to $prefix/dir if it was $prefixexp/dir and
?S: $prefix differs from $prefixexp.
?S:.
?V:prefixup
: set the prefixup variable, to restore leading tilda escape
prefixup='case "$prefixexp" in
"$prefix") ;;
*) eval "$1=\`echo \$$1 | sed \"s,^$prefixexp,$prefix,\"\`";;
esac'
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Prefixup.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_speedopt.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_speedopt.U,v $
```

```
?RCS: Revision 3.0.1.1  1994/10/29  16:15:51  ram
?RCS: patch36: call ./Cppsym explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_speedopt: Myread Cppsym Oldconfig cat models Setvar
?MAKE: -pick add $@ %<
?S:d_speedopt:
?S: This variable conditionally defines the SPEED_OVER_MEM symbol, which
?S: indicates to the C program that it can
 burn memory in order to save
?S: CPU time.
?S:.
?C:SPEED_OVER_MEM (SPEEDOVERMEM):
?C: This symbol, if defined, indicates that the program can use more
?C: memory in order to reduce CPU time.  The symbol doesn't say whether
?C: we are more interested in saving text space or data space.
?C:.
?H:#$d_speedopt SPEED_OVER_MEM /**/
?H:.
?LINT:set d_speedopt
: do we want speed at the expense of memory
$cat <<'EOM'

I can try to optimize this package for either speed or memory.  If you have
limited address space you may wish to optimize for memory.  Otherwise you
should probably optimize for speed.

EOM
case "$d_speedopt" in
") if ./Cppsym $smallmach; then
 case "$models" in
  *large*|*huge*) dflt=speed;;
  *) dflt=memory;;
  esac
 else
  dflt=speed
 fi
 ;;
*define*) dflt=speed;;
*) dflt=memory;;
esac
rp="What to optimize for?"
. ./myread
case "$ans" in
mem*) val="$undef";;
*) val="$define";;
```

```
esac
set d_speedopt
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_speedopt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2000,2014 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fpclassify d_fp_classify: Inlibc cat Compile rm_try Setvar
?MAKE: -pick add $@ %<
?X:the short story is that C99 says use fpclassify.  But the story is confused
?X:by systems "partially C99" (or fully "pre C99") which either user fpclassify
?X:but with different return values, or they use fp_classify (with the expected)
?X:return values, or they use some other spelling of *fp*class* (sometimes even
?X:without the *fp* part), with yet another set(s) of return values ...
?S:d_fpclassify:
?S: This variable conditionally defines the HAS_FPCLASSIFY symbol, which
?S: indicates to the C program that the fpclassify() routine is available.
?S:.
?S:d_fp_classify:
?S: This variable conditionally defines the HAS_FP_CLASSIFY
 symbol, which
?S: indicates to the C program that the fp_classify() routine is available.
?S:.
?C:HAS_FPCLASSIFY:
?C: This symbol, if defined, indicates that the fpclassify routine is
?C: available to classify doubles.  Available for example in HP-UX.
?C: The returned values are defined in <math.h> and are
?C:
?C:   FP_NORMAL     Normalized
?C:   FP_ZERO       Zero
?C:   FP_INFINITE   Infinity
?C:   FP_SUBNORMAL  Denormalized
?C:   FP_NAN        NaN
?C:
?C:.
?C:HAS_FP_CLASSIFY:
?C: This symbol, if defined, indicates that the fp_classify routine is
?C: available to classify doubles. The values are defined in <math.h>
?C:
?C:   FP_NORMAL     Normalized
?C:   FP_ZERO       Zero
```

```
?C:   FP_INFINITE   Infinity
?C:   FP_SUBNORMAL  Denormalized
?C:   FP_NAN        NaN
?C:
?C:.
?H:#$d_fpclassify HAS_FPCLASSIFY  /**/
?H:#$d_fp_classify HAS_FP_CLASSIFY  /**/
?H:.
?LINT:set d_fpclassify
?LINT:set d_fp_classify
: check for fpclassify
?X:classified (Comment by jhi)
?X:fpclassify i_math
?X:fp_classify i_math
?X:fpclass i_math
 i_ieeefp i_fp
?X:fp_class i_math i_fp_class
?X:  No i_fp_class yet. But the systems that have
?X:  this (Tru64 and IRIX) both had <fp_class.h>
?X:class i_math
echo "Checking to see if you have fpclassify..." >&4
$cat >try.c <<EOCP
#include <math.h>
int main() { return fpclassify(1.0) == FP_NORMAL ? 0 : 1; }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have fpclassify."
else
 val="$undef"
 echo "You do not have fpclassify."
fi
$rm_try
set d_fpclassify
eval $setvar

: see if fp_classify exists
set fp_classify d_fp_classify
eval $inlibc

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fpclassify.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Unix.U,v 3.0.1.1 1997/02/28 15:20:06 ram Exp $
?RCS:
```

```
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Unix.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:20:06  ram
?RCS: patch61: created
?RCS:
?X:
?X: The purpose of this unit is to define things that are common across all
?X: known UNIX platforms. If Configure is ported/used on a non-UNIX
?X: environment, then some of the following variables can be redefined in hint
?X: files.
?X:
?MAKE:Unix _exe _a _o exe_ext lib_ext obj_ext path_sep \
 firstmakefile archobjs rm_try: Oldconfig rm
?MAKE: -pick add $@ %<
?S:_exe:
?S: This
 variable defines the extension used for executable files.
?S: DJGPP, Cygwin and OS/2 use '.exe'.  Stratus VOS uses '.pm'.
?S: On operating systems which do not require a specific extension
?S: for executable files, this variable is empty.
?S:.
?S:_a:
?S: This variable defines the extension used for ordinary library files.
?S: For unix, it is '.a'.  The '.' is included.  Other possible
?S: values include '.lib'.
?S:.
?S:_o:
?S: This variable defines the extension used for object files.
?S: For unix, it is '.o'.  The '.' is included.  Other possible
?S: values include '.obj'.
?S:.
?S:firstmakefile:
?S: This variable defines the first file searched by make.  On unix,
?S: it is makefile (then Makefile).  On case-insensitive systems,
?S: it might be something else.  This is only used to deal with
?S: convoluted make depend tricks.
?S:.
?S:archobjs:
?S: This variable defines any additional objects that must be linked
?S: in with the program on this architecture.  On unix, it is usually
?S: empty.
```

```
  It is typically used to include emulations of unix calls
?S: or other facilities.  For perl on OS/2, for example, this would
?S: include os2/os2.obj.
?S:.
?X: Metaconfig's Obsolete symbol stuff is too over-eager.  In the
?X: perl sources, it picks up things like "P" and "FLOCK" that are
?X: not used in the way Metaconfig thinks they are.  Thus I can't
?X: just declare these obsolete and then run metaconfig -o.
?X: Instead, I'll just handle them here.
?X: Sadly, history has conspired to give us a web of definitions;
?X: this could have been much simpler.
?S:lib_ext:
?S: This is an old synonym for _a.
?S:.
?S:exe_ext:
?S: This is an old synonym for _exe.
?S:.
?S:obj_ext:
?S: This is an old synonym for _o.
?S:.
?S:path_sep:
?S: This is an old synonym for p_ in Head.U, the character
?S: used to separate elements in the command shell search PATH.
?S:.
?S:rm_try:
?S: This is a cleanup variable for try test programs.
?S: Internal Configure use only.
?S:.
?LINT: change p_
?INIT::
 Trailing extension.  Override this in a hint file, if needed.
?INIT:: Extra object files, if any, needed on this platform.
?INIT:archobjs="
: Define several unixisms.
: Hints files or command line option can be used to override them.
: The convoluted testing is in case hints files set either the old
: or the new name.
case "$_exe" in
") case "$exe_ext" in
 ") ;;
 *) _exe="$exe_ext" ;;
 esac
 ;;
esac
case "$_a" in
") case "$lib_ext" in
   ") _a='.a';;
 *) _a="$lib_ext" ;;
```

```
 esac
 ;;
esac
case "$_o" in
") case "$obj_ext" in
 ") _o='.o';;
 *) _o="$obj_ext";;
 esac
 ;;
esac
case "$p_" in
") case "$path_sep" in
 ") p_=':';;
 *) p_="$path_sep";;
 esac
 ;;
esac
exe_ext=$_exe
lib_ext=$_a
obj_ext=$_o
path_sep=$p_

rm_try="$rm -f try try$_exe a.out .out try.[cho] try.$_o core core.try* try.core*"

@if firstmakefile
: Which makefile gets called first.  This is used by make depend.
case "$firstmakefile" in
") firstmakefile='makefile';;
esac

@end
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Unix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_htonl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_htonl.U,v $
```

```
?RCS: Revision 3.0.1.2  1994/08/29  16:09:25  ram
?RCS: patch32: now properly handles htonl() and friends when macros (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:45:00  ram
?RCS: patch23: now also check for htonl() macro (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:22  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_htonl: Inlibc Setvar i_niin i_sysin i_arpainet cat rm contains \
 cppstdin cppflags cppminus
?MAKE: -pick
 add $@ %<
?S:d_htonl:
?S: This variable conditionally defines HAS_HTONL if htonl() and its
?S: friends are available to do network order byte swapping.
?S:.
?C:HAS_HTONL (HTONL):
?C: This symbol, if defined, indicates that the htonl() routine (and
?C: friends htons() ntohl() ntohs()) are available to do network
?C: order byte swapping.
?C:.
?C:HAS_HTONS (HTONS):
?C: This symbol, if defined, indicates that the htons() routine (and
?C: friends htonl() ntohl() ntohs()) are available to do network
?C: order byte swapping.
?C:.
?C:HAS_NTOHL (NTOHL):
?C: This symbol, if defined, indicates that the ntohl() routine (and
?C: friends htonl() htons() ntohs()) are available to do network
?C: order byte swapping.
?C:.
?C:HAS_NTOHS (NTOHS):
?C: This symbol, if defined, indicates that the ntohs() routine (and
?C: friends htonl() htons() ntohl()) are available to do network
?C: order byte swapping.
?C:.
?H:#$d_htonl HAS_HTONL  /**/
?H:#$d_htonl HAS_HTONS  /**/
?H:#$d_htonl HAS_NTOHL  /**/
?H:#$d_htonl
 HAS_NTOHS  /**/
?H:.
?F:!htonl.c
?LINT:set d_htonl
: see if htonl --and friends-- exists
val=''
set htonl val
```

```
eval $inlibc

: Maybe they are macros.
case "$val" in
$undef)
 $cat >htonl.c <<EOM
#include <stdio.h>
#include <sys/types.h>
#$i_niin I_NETINET_IN
#$i_sysin I_SYS_IN
#$i_arpainet I_ARPA_INET
#ifdef I_NETINET_IN
#include <netinet/in.h>
#endif
#ifdef I_SYS_IN
#include <sys/in.h>
#endif
#ifdef I_ARPA_INET
#include <arpa/inet.h>
#endif
#ifdef htonl
printf("Defined as a macro.");
#endif
EOM
 $cppstdin $cppflags $cppminus < htonl.c >htonl.E 2>/dev/null
 if $contains 'Defined as a macro' htonl.E >/dev/null 2>&1; then
  val="$define"
  echo "But it seems to be defined as a macro." >&4
 fi
 $rm -f htonl.?
 ;;
esac
set d_htonl
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_htonl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:usequadmath: Setvar cat uselongdouble
?MAKE: -pick add $@ %<
?S:usequadmath:
?S: This variable conditionally defines the USE_QUADMATH symbol,
?S: and indicates that the quadmath library __float128 long doubles
```

```
?S: should be used when available.
?S:.
?C:USE_QUADMATH:
?C: This symbol, if defined, indicates that the quadmath library should
?C: be used when available.
?C:.
?H:?%<:#ifndef USE_QUADMATH
?H:?%<:#$usequadmath USE_QUADMATH  /**/
?H:?%<:#endif
?H:.
: Check if quadmath is requested
case "$usequadmath" in
"$define"|true|[yY]*) usequadmath="$define" ;;
*)                    usequadmath="$undef"  ;;
esac

: Fail if both uselongdouble and usequadmath are requested
case "$usequadmath:$uselongdouble" in
define:define)
 $cat <<EOM >&4

*** You requested the use of
 the quadmath library and use
*** of long doubles.
***
*** Please select one or the other.
EOM
 exit 1
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/usequadmath.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_gethbynm.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:08  ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_gethbynm: Inlibc
?MAKE: -pick add $@ %<
?S:d_gethbynm (d_gethhstby):
?S: This variable conditionally defines the HAS_GETHOSTBYNAME symbol, which
?S: indicates to the C program that the gethostbyname() routine is available
?S: to lookup host names in some data base or other.
?S:.
?C:HAS_GETHOSTBYNAME (GETHOSTBYNAME):
?C: This symbol, if defined, indicates that the gethostbyname()
 routine is
?C: available to lookup host names in some data base or other.
?C:.
?H:#$d_gethbynm HAS_GETHOSTBYNAME  /**/
?H:.
?LINT:set d_gethbynm
: see if gethostbyname exists
set gethostbyname d_gethbynm
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_gethbynm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpwuid_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getpwuid_r getpwuid_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_pwd extern_C
?MAKE: -pick add $@ %<
?S:d_getpwuid_r:
?S: This variable conditionally defines the HAS_GETPWUID_R symbol,
?S: which indicates to the C program that the getpwuid_r()
?S: routine is available.
?S:.
?S:getpwuid_r_proto:
?S: This variable encodes the prototype of getpwuid_r.
?S: It is zero if d_getpwuid_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getpwuid_r
?S: is defined.
?S:.
```

```
?C:HAS_GETPWUID_R:
?C: This symbol, if defined, indicates that the getpwuid_r routine
?C: is available to
 getpwuid re-entrantly.
?C:.
?C:GETPWUID_R_PROTO:
?C: This symbol encodes the prototype of getpwuid_r.
?C: It is zero if d_getpwuid_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getpwuid_r
?C: is defined.
?C:.
?H:#$d_getpwuid_r HAS_GETPWUID_R /**/
?H:#define GETPWUID_R_PROTO $getpwuid_r_proto /**/
?H:.
?T:try hdrs d_getpwuid_r_proto
: see if getpwuid_r exists
set getpwuid_r d_getpwuid_r
eval $inlibc
case "$d_getpwuid_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_pwd pwd.h"
 case "$d_getpwuid_r_proto:$usethreads" in
 ":define") d_getpwuid_r_proto=define
  set d_getpwuid_r_proto getpwuid_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getpwuid_r_proto" in
 define)
 case "$getpwuid_r_proto" in
 "|0) try='int getpwuid_r(uid_t, struct passwd*, char*, size_t, struct passwd**);'
 ./protochk "$extern_C $try" $hdrs && getpwuid_r_proto=I_TSBWR ;;
 esac
 case "$getpwuid_r_proto" in
 "|0) try='int getpwuid_r(uid_t, struct passwd*, char*, int,
 struct passwd**);'
 ./protochk "$extern_C $try" $hdrs && getpwuid_r_proto=I_TSBIR ;;
 esac
 case "$getpwuid_r_proto" in
 "|0) try='int getpwuid_r(uid_t, struct passwd*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getpwuid_r_proto=I_TSBI ;;
 esac
 case "$getpwuid_r_proto" in
 "|0) try='struct passwd* getpwuid_r(uid_t, struct passwd*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getpwuid_r_proto=S_TSBI ;;
 esac
 case "$getpwuid_r_proto" in
 "|0) d_getpwuid_r=undef
```

```
  getpwuid_r_proto=0
  echo "Disabling getpwuid_r, cannot determine prototype." >&4 ;;
 * ) case "$getpwuid_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getpwuid_r_proto="REENTRANT_PROTO_$getpwuid_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getpwuid_r has no prototype, not using it." >&4 ;;
  esac
  d_getpwuid_r=undef
  getpwuid_r_proto=0
  ;;
 esac
 ;;
*) getpwuid_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getpwuid_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_acosh: Inlibc
?MAKE: -pick add $@ %<
?S:d_acosh:
?S: This variable conditionally defines the HAS_ACOSH symbol, which
?S: indicates to the C program that the acosh() routine is available.
?S:.
?C:HAS_ACOSH:
?C: This symbol, if defined, indicates that the acosh routine is
?C: available to do the inverse hyperbolic cosine function.
?C:.
?H:#$d_acosh HAS_ACOSH  /**/
?H:.
?LINT:set d_acosh
: see if acosh exists
set acosh d_acosh
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/perl/d_acosh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:sitehtml3dir sitehtml3direxp installsitehtml3dir: Getfile \
 Setprefixvar prefix siteprefix html3dir sed
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitehtml3dir=''
?S:sitehtml3dir:
?S: This variable contains the name of the directory in which site-specific
?S: library html source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S: The standard distribution will put nothing in this directory.
?S: After
 perl has been installed, users may install their own local
?S: library html pages in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitehtml3direxp=''
?S:sitehtml3direxp:
?S: This variable is the same as the sitehtml3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsitehtml3dir=''
?S:installsitehtml3dir:
?S: This variable is really the same as sitehtml3direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: html3direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installsitehtml3dir
?LINT:set sitehtml3dir
?LINT:set sitehtml3direxp
: determine where add-on library html pages go
: There is no standard location, so try to copy the previously-selected
```

```
: directory structure for the core html pages.
case
 "$sitehtml3dir" in
")    dflt=`echo "$html3dir" | $sed "s#^$prefix#$siteprefix#"` ;;
*)     dflt=$sitehtml3dir ;;
esac
case "$dflt" in
"|' ') dflt=none ;;
esac
fn=dn+~
rp='Pathname where the site-specific library html pages should be installed?'
. ./getfile
prefixvar=sitehtml3dir
. ./setprefixvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/sitehtml3dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2014, H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_dladdr.U,v $
?RCS:
?MAKE:d_dladdr: Inlibc
?MAKE: -pick add $@ %<
?S:d_dladdr:
?S: This variable conditionally defines the HAS_DLADDR symbol, which
?S: indicates to the C program that the dladdr() routine is available
?S: to get a stack trace.
?S:.
?C:HAS_DLADDR:
?C: This symbol, if defined, indicates that the dladdr() routine is
?C: available to query dynamic linker information for an address.
?C: The <dlfcn.h> header must be included to use this routine.
?C:.
?H:#$d_dladdr HAS_DLADDR /**/
?H:.
?LINT:set d_dladdr
:
```

```
 see if dladdr exists
set dladdr d_dladdr
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_dladdr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Warn_v7ND.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Warn_v7ND.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:01:46  ram
?RCS: patch36: call ./v7 explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:18  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit warns V7 sites that they may not have a non-blocking read.
?X: This unit needs to be mentioned in End.U to get included.
?X:
?MAKE:Warn_v7ND: package Guess
?MAKE: -pick add $@ %<
: Warnings
if ./v7; then
 cat
 <<EOM

NOTE: many V7 systems do not have a way to do a non-blocking read.  If you
don't have any of FIONREAD, O_NDELAY, or rdchk(), the $package package
may not work as well as it might.  It might not work at all.
EOM
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Warn_v7ND.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_semctl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_semctl.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_semctl: Inlibc
?MAKE: -pick add $@ %<
?S:d_semctl:
?S: This variable conditionally defines the HAS_SEMCTL symbol, which
?S: indicates to the C program that the semctl() routine is available.
?S:.
?C:HAS_SEMCTL:
?C: This symbol, if defined, indicates that the semctl() routine is
?C: available to perform semaphore control operations.
?C:.
?H:#$d_semctl
 HAS_SEMCTL /**/
?H:.
?LINT:set d_semctl
: see if semctl exists
set semctl d_semctl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_semctl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Inhdr.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Inhdr.U,v $
```

```
?RCS: Revision 3.0.1.2  1995/05/12  12:01:31  ram
?RCS: patch54: deleted tabs that caused some /bin/sh to core dump (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:55:01  ram
?RCS: patch36: call ./whoa explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit checks wether a set of header files exists or not.
?X: If the first header is not
 found, the function tries to locate
?X: the next header, and so on, until one is found or there is no
?X: more header in the list.
?X:
?X: To use it, say:
?X: set header i_header [ header2 i_header2 ... ]
?X: eval $inhdr
?X:
?MAKE:Inhdr: test Findhdr Whoa
?MAKE: -pick add $@ %<
?LINT:define inhdr
?V:inhdr
?S:inhdr:
?S: This shell variable is used internally by Configure to check
?S: wether a set of headers exist or not. A typical use is:
?S:  set header i_header [ header2 i_header2 ... ]
?S:  eval $inhdr
?S: That will print a message, saying wether header was found or not
?S: and set i_header* accordingly. If the first header is not found,
?S: we try the next one, until the list is empty or one is found.
?S:.
?T:xxx xxf var td xxnf tu yyy instead was cont
: define an alternate in-header-list? function
inhdr='echo " "; td=$define; tu=$undef; yyy=$@;
cont=true; xxf="echo \"<\$1> found.\" >&4";
case $# in 2) xxnf="echo \"<\$1> NOT found.\" >&4";;
*) xxnf="echo \"<\$1> NOT found, ...\" >&4";;
esac;
case
 $# in 4) instead=instead;; *) instead="at last";; esac;
while $test "$cont"; do
 xxx=`./findhdr $1`
 var=$2; eval "was=\$$2";
 if $test "$xxx" && $test -r "$xxx";
 then eval $xxf;
?X: Next line shifted left 1 tabstop to avoid sh core dump on MachTen 2.1.1.
```

```
 eval "case \"\$$var\" in $undef) . ./whoa; esac"; eval "$var=\$td";
  cont="";
 else eval $xxnf;
?X: Likewise, the next line has been shifted left 1 tabstop -- ADO, 08/03/95
 eval "case \"\$$var\" in $define) . ./whoa; esac"; eval "$var=\$tu"; fi;
 set $yyy; shift; shift; yyy=$@;
 case $# in 0) cont="";;
 2) xxf="echo \"but I found <\$1> $instead.\" >&4";
  xxnf="echo \"and I did not find <\$1> either.\" >&4";;
 *) xxf="echo \"but I found <\$1\> instead.\" >&4";
  xxnf="echo \"there is no <\$1>, ...\" >&4";;
 esac;
done;
?X: Remaining values are set to 'undef'
while $test "$yyy";
do set $yyy; var=$2; eval "was=\$$2";
 eval "case \"\$$var\" in $define) . ./whoa; esac"; eval "$var=\$tu";
 set $yyy; shift; shift; yyy=$@;
done'
```

Found
 in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Inhdr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_link.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_link.U,v $
?RCS: Revision 3.0.1.1  1993/08/25  14:01:13  ram
?RCS: patch6: created for completeness
?RCS:
?MAKE:d_link: Inlibc
?MAKE: -pick add $@ %<
?S:d_link:
?S: This variable conditionally defines HAS_LINK if link() is
?S: available to create hard links.
?S:.
?C:HAS_LINK:
?C: This symbol, if defined, indicates that the link routine is
```

```
?C: available to create hard links.
?C:.
?H:#$d_link HAS_LINK /**/
?H:.
?LINT:set d_link
: see if link exists
set
 link d_link
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_link.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endgrent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_endgrent_r endgrent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_grp extern_C
?MAKE: -pick add $@ %<
?S:d_endgrent_r:
?S: This variable conditionally defines the HAS_ENDGRENT_R symbol,
?S: which indicates to the C program that the endgrent_r()
?S: routine is available.
?S:.
?S:endgrent_r_proto:
?S: This variable encodes the prototype of endgrent_r.
?S: It is zero if d_endgrent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endgrent_r
?S: is defined.
?S:.
?C:HAS_ENDGRENT_R:
?C: This symbol, if defined, indicates that the endgrent_r routine
?C: is available to
 endgrent re-entrantly.
?C:.
?C:ENDGRENT_R_PROTO:
?C: This symbol encodes the prototype of endgrent_r.
?C: It is zero if d_endgrent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endgrent_r
?C: is defined.
?C:.
```

```
?H:#$d_endgrent_r HAS_ENDGRENT_R /**/
?H:#define ENDGRENT_R_PROTO $endgrent_r_proto /**/
?H:.
?T:try hdrs d_endgrent_r_proto
: see if endgrent_r exists
set endgrent_r d_endgrent_r
eval $inlibc
case "$d_endgrent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_grp grp.h"
 case "$d_endgrent_r_proto:$usethreads" in
 ":define") d_endgrent_r_proto=define
  set d_endgrent_r_proto endgrent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_endgrent_r_proto" in
 define)
 case "$endgrent_r_proto" in
 "|0) try='int endgrent_r(FILE**);'
 ./protochk "$extern_C $try" $hdrs && endgrent_r_proto=I_H ;;
 esac
 case "$endgrent_r_proto" in
 "|0) try='void endgrent_r(FILE**);'
 ./protochk "$extern_C $try" $hdrs && endgrent_r_proto=V_H ;;
 esac
 case "$endgrent_r_proto"
 in
 "|0) d_endgrent_r=undef
  endgrent_r_proto=0
  echo "Disabling endgrent_r, cannot determine prototype." >&4 ;;
 * ) case "$endgrent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) endgrent_r_proto="REENTRANT_PROTO_$endgrent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "endgrent_r has no prototype, not using it." >&4 ;;
  esac
  d_endgrent_r=undef
  endgrent_r_proto=0
  ;;
 esac
 ;;
*) endgrent_r_proto=0
 ;;
```

```
esac

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_endgrent_r.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS:
?MAKE:d_dirfd: Compile cat rm Setvar i_dirent i_sysdir i_sysndir i_systypes i_stdlib
?MAKE: -pick add $@ %<
?S:d_dirfd:
?S: This variable conditionally defines the HAS_DIRFD constant,
?S: which indicates to the C program that dirfd() is available
?S: to return the file descriptor of a directory stream.
?S:.
?C:HAS_DIRFD:
?C: This manifest constant lets the C program know that dirfd
?C: is available.
?C:.
?H:#$d_dirfd HAS_DIRFD  /**/
?H:.
?LINT:set d_dirfd
?X: Can't use Inlibc because dirfd() might be a macro.
: Look
 for dirfd
echo " "
$cat >dirfd.c <<EOM
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_dirent I_DIRENT  /**/
#$i_sysdir I_SYS_DIR  /**/
#$i_sysndir I_SYS_NDIR  /**/
#$i_systypes I_SYS_TYPES /**/
#if defined(I_SYS_TYPES)
#include <sys/types.h>
```

```
#endif
#if defined(I_DIRENT)
#include <dirent.h>
#else
#ifdef I_SYS_NDIR
#include <sys/ndir.h>
#else
#ifdef I_SYS_DIR
#include <sys/dir.h>
#endif
#endif
#endif
int main() {
 DIR *dirp = opendir(".");
 if (dirfd(dirp) >= 0)
  exit(0);
 else
  exit(1);
}
EOM
val=$undef
set dirfd
if eval $compile; then
 val="$define"
fi
case "$val" in
$define) echo "dirfd() found." >&4 ;;
*)  echo "dirfd() NOT found." >&4 ;;
esac
set d_dirfd
eval $setvar
$rm -f dirfd*
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_dirfd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ffs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: d_ffs.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_ffs d_ffsl: Inlibc
?MAKE: -pick add $@ %<
?S:d_ffs:
?S: This variable conditionally defines the HAS_FFS symbol, which
?S: indicates to the C program that the ffs() routine is available
?S: to find the first bit which is set in its integer argument.
?S:.
?S:d_ffsl:
?S: This variable conditionally defines the HAS_FFSL symbol, which
?S: indicates
 to the C program that the ffsl() routine is available
?S: to find the first bit which is set in its long integer argument.
?S:.
?C:HAS_FFS:
?C: This symbol, if defined, indicates that the ffs routine is available
?C: to find the first bit set in its argument.  If it's not available,
?C: roll your own.
?C:.
?C:HAS_FFSL:
?C: This symbol, if defined, indicates that the ffsl routine is available
?C: to find the first bit set in its argument.  If it's not available,
?C: roll your own.
?C:.
?H:#$d_ffs HAS_FFS  /**/
?H:#$d_ffsl HAS_FFSL  /**/
?H:.
?LINT:set d_ffs d_ffsl
: see if ffs exists
set ffs d_ffs
eval $inlibc
: see if ffsl exists
set ffsl d_ffsl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_ffs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Chk_whoami.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Chk_whoami.U,v $
?RCS: Revision 3.0  1993/08/18  12:04:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit makes sure we don't try to include whoami.h if uname() exists.
?X:
?MAKE:Chk_whoami: d_uname i_whoami
?MAKE: -pick add $@ %<
?LINT:change i_whoami
: weed out incompatibilities
case "$d_uname" in
 "$define") i_whoami="$undef" ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Chk_whoami.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_sockatmarkproto: Hasproto d_socket
?MAKE: -pick add $@ %<
?S:d_sockatmarkproto:
?S: This variable conditionally defines the HAS_SOCKATMARK_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the sockatmark() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_SOCKATMARK_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the sockatmark() function.  Otherwise, it is up
?C: to the program to supply one.  A good
```

```
 guess is
?C:  extern int sockatmark(int);
?C:.
?H:#$d_sockatmarkproto HAS_SOCKATMARK_PROTO /**/
?H:.
?LINT:set d_sockatmarkproto
: see if prototype for sockatmark is available
echo " "
set d_sockatmarkproto sockatmark $d_socket sys/socket.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_sockatmarkproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_string.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_string.U,v $
?RCS: Revision 3.0.1.2  1993/10/16  13:50:12  ram
?RCS: patch12: special units Loc and Guess were missing from dependencies
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:07:26  ram
?RCS: patch10: removed "(Actually, this looks more like...)" messages (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:28  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: See if we should include <string.h> or <strings.h>
?X:
?MAKE:i_string strings:
 test Setvar Findhdr Warn
?MAKE: -pick add $@ %<
?S:i_string:
?S: This variable conditionally defines the I_STRING symbol, which
?S: indicates that <string.h> should be included rather than <strings.h>.
?S:.
?S:strings:
?S: This variable holds the full path of the string header that will be
```

```
?S: used. Typically /usr/include/string.h or /usr/include/strings.h.
?S:.
?C:I_STRING:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <string.h> (USG systems) instead of <strings.h> (BSD systems).
?C:.
?H:#$i_string I_STRING  /**/
?H:.
?LINT:set i_string
: see which of string.h or strings.h is needed
echo " "
strings=`./findhdr string.h`
if $test "$strings" && $test -r "$strings"; then
 echo "Using <string.h> instead of <strings.h>." >&4
 val="$define"
else
 val="$undef"
 strings=`./findhdr strings.h`
 if $test "$strings" && $test -r "$strings"; then
  echo "Using <strings.h> instead of <string.h>." >&4
 else
  ./warn "No string header found -- You'll surely
 have problems."
 fi
fi
set i_string
eval $setvar
case "$i_string" in
"$undef") strings=`./findhdr strings.h`;;
*)   strings=`./findhdr string.h`;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_string.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setpgid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setpgid.U,v $
```

```
?RCS: Revision 3.0.1.2  1997/02/28  15:41:49  ram
?RCS: patch61: reworded symbol comments
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:06:40  ram
?RCS: patch16: created
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setpgid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setpgid:
?S: This variable conditionally defines the HAS_SETPGID symbol if the
?S: setpgid(pid, gpid) function is
 available to set process group ID.
?S:.
?C:HAS_SETPGID:
?C: This symbol, if defined, indicates that the setpgid(pid, gpid)
?C: routine is available to set process group ID.
?C:.
?H:#$d_setpgid HAS_SETPGID /**/
?H:.
?LINT:set d_setpgid
: see if setpgid exists
set setpgid d_setpgid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setpgid.U
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```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_vprintf.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:59  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_vprintf d_charvspr: Guess cat +cc +ccflags Csym Setvar
?MAKE: -pick add $@ %<
```

```
?S:d_vprintf:
?S: This variable conditionally defines the HAS_VPRINTF symbol, which
?S: indicates to the C program that the vprintf() routine is available
?S: to printf with a pointer to an argument list.
?S:.
?S:d_charvspr:
?S: This variable conditionally defines CHARVSPRINTF if this system
?S: has
 vsprintf returning type (char*).  The trend seems to be to
?S: declare it as "int vsprintf()".
?S:.
?C:HAS_VPRINTF (VPRINTF):
?C: This symbol, if defined, indicates that the vprintf routine is available
?C: to printf with a pointer to an argument list.  If unavailable, you
?C: may need to write your own, probably in terms of _doprnt().
?C:.
?C:USE_CHAR_VSPRINTF (CHARVSPRINTF):
?C: This symbol is defined if this system has vsprintf() returning type
?C: (char*).  The trend seems to be to declare it as "int vsprintf()".  It
?C: is up to the package author to declare vsprintf correctly based on the
?C: symbol.
?C:.
?H:#$d_vprintf HAS_VPRINTF /**/
?H:#$d_charvspr USE_CHAR_VSPRINTF  /**/
?H:.
?F:!vprintf !vprintf.c
?T:val2
?LINT:set d_vprintf d_charvspr
: see if vprintf exists
echo " "
if set vprintf val -f d_vprintf; eval $csym; $val; then
 echo 'vprintf() found.' >&4
 val="$define"
 $cat >vprintf.c <<'EOF'
#include <varargs.h>

int main() { xxx("foo"); }

xxx(va_alist)
va_dcl
{
 va_list args;
 char
 buf[10];

 va_start(args);
 exit((unsigned long)vsprintf(buf,"%s",args) > 10L);
}
```

```
EOF
 if $cc $ccflags -o vprintf vprintf.c >/dev/null 2>&1 && ./vprintf; then
  echo "Your vsprintf() returns (int)." >&4
  val2="$undef"
 else
  echo "Your vsprintf() returns (char*)." >&4
  val2="$define"
 fi
else
 echo 'vprintf() NOT found.' >&4
  val="$undef"
  val2="$undef"
fi
set d_vprintf
eval $setvar
val=$val2
set d_charvspr
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_vprintf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strtoul.U,v 3.0.1.1 1997/02/28 15:46:43 ram Exp $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_strtoul.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:46:43  ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_strtoul: Inlibc cat longsize Compile run
?MAKE: -pick add $@ %<
?S:d_strtoul:
?S: This variable conditionally defines the HAS_STRTOUL symbol, which
?S: indicates to the C program that the strtoul() routine is available
?S: to provide conversion of strings to unsigned long.
?S:.
?C:HAS_STRTOUL (STRTOUL):
```

```
?C: This
 symbol, if defined, indicates that the strtoul routine is
?C: available to provide conversion of strings to unsigned long.
?C:.
?H:#$d_strtoul HAS_STRTOUL /**/
?H:.
?F:!try
: see if strtoul exists
set strtoul d_strtoul
eval $inlibc

case "$d_strtoul" in
"$define")
 $cat <<EOM
Checking whether your strtoul() works okay...
EOM
 $cat >try.c <<'EOCP'
#include <stdlib.h>
#include <errno.h>
#include <stdio.h>
static int bad = 0;
void check(const char *s, unsigned long eul, int een) {
 unsigned long gul;
 errno = 0;
 gul = strtoul(s, 0, 10);
 if (!((gul == eul) && (errno == een)))
  bad++;
}
int main() {
 check(" 1", 1L, 0);
 check(" 0", 0L, 0);
EOCP
 case "$longsize" in
 8)
    $cat >>try.c <<'EOCP'
 check("18446744073709551615", 18446744073709551615UL, 0);
 check("18446744073709551616", 18446744073709551615UL, ERANGE);
#if 0 /* strtoul() for /^-/ strings is undefined. */
 check("-1", 18446744073709551615UL, 0);
 check("-18446744073709551614", 2, 0);
 check("-18446744073709551615", 1,
 0);
 check("-18446744073709551616", 18446744073709551615UL, ERANGE);
 check("-18446744073709551617", 18446744073709551615UL, ERANGE);
#endif
EOCP
  ;;
 4)
```

```
     $cat >>try.c <<'EOCP'
 check("4294967295", 4294967295UL, 0);
 check("4294967296", 4294967295UL, ERANGE);
#if 0 /* strtoul() for /^-/ strings is undefined. */
 check("-1", 4294967295UL, 0);
 check("-4294967294", 2, 0);
 check("-4294967295", 1, 0);
 check("-4294967296", 4294967295UL, ERANGE);
 check("-4294967297", 4294967295UL, ERANGE);
#endif
EOCP
  ;;
 *)
: Should we write these tests to be more portable by sprintf-ing
: ~0 and then manipulating that char string as input for strtol?
  ;;
 esac
 $cat >>try.c <<'EOCP'
 if (!bad)
  printf("ok\n");
 return 0;
}
EOCP
 set try
 if eval $compile; then
  case "`$run ./try`" in
  ok) echo "Your strtoul() seems to be working okay." ;;
  *) cat <<EOM >&4
Your strtoul() doesn't seem to be working okay.
EOM
     d_strtoul="$undef"
     ;;
  esac
 else
  echo "(I can't seem to compile the test
 program--assuming it doesn't)"
  d_strtoul="$undef"
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_strtoul.U
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:

```
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:full_ar: ar
?MAKE: -pick add $@ %<
?S:full_ar:
?S: This variable contains the full pathname to 'ar', whether or
?S: not the user has specified 'portability'.  This is only used
?S: in the Makefile.SH.
?S:.
: Store the full pathname to the ar program for use in the C program
: Respect a hint or command line value for full_ar.
case "$full_ar" in
") full_ar=$ar ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/Loc_ar.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Guess.U,v $
?RCS: Revision 3.0.1.5  1995/07/25  13:37:14  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  15:53:55  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: call ./xenix explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.3  1993/12/15  08:14:35  ram
?RCS: patch15: variable d_bsd was not always set properly
?RCS:
?RCS: Revision 3.0.1.2  1993/08/30  08:57:14  ram
```

```
?RCS: patch8: fixed comment which wrongly
 attributed the usrinc symbol
?RCS: patch8: no more ugly messages when no /usr/include/ctype.h
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:37:37  ram
?RCS: patch7: added support for OSF/1 machines
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit hazards some guesses as to what the general nature of the system
?X: is.  The information it collects here is used primarily to establish default
?X: answers to other questions.
?X:
?MAKE:Guess d_eunice d_xenix d_bsd d_linux d_dos d_os2: cat test echo n c \
 contains rm tr Loc eunicefix
?MAKE: -pick add $@ %<
?S:d_eunice:
?S: This variable conditionally defines the symbols EUNICE_SYSTEM, which
?S: alerts the C program that it must deal with ideosyncracies of VMS.
?S:.
?S:d_xenix:
?S: This variable conditionally defines the symbol XENIX_SYSTEM, which alerts
?S: the C program that it runs under Xenix.
?S:.
?S:d_dos:
?S: This symbol conditionally defines the symbol DOS_SYSTEM
 when running on
?S: DOS with DJGPP or Cygwin.
?S:.
?S:d_os2:
?S: This symbol conditionally defines the symbol OS2_SYSTEM when running on
?S: an OS/2 system.
?S:.
?S:d_bsd:
?S: This symbol conditionally defines the symbol BSD_SYSTEM when running on a
?S: BSD system.
?S:.
?S:d_linux:
?S: This symbol conditionally defines the symbol LINUX_SYSTEM when running
?S: on a Linux system.
?S:.
?C:EUNICE_SYSTEM (EUNICE):
?C: This symbol, if defined, indicates that the program is being compiled
?C: under the EUNICE package under VMS.  The program will need to handle
?C: things like files that don't go away the first time you unlink them,
?C: due to version numbering.  It will also need to compensate for lack
```

```
?C: of a respectable link() command.
?C:.
?C:VMS_SYSTEM (VMS):
?C: This symbol, if defined, indicates that the program is running under
?C: VMS.  It is currently only set in conjunction with the EUNICE symbol.
?C:.
?C:XENIX_SYSTEM (XENIX):
?C: This symbol, if defined, indicates that the program
 is running under
?C: Xenix (at least 3.0 ?).
?C:.
?C:DOS_SYSTEM:
?C: This symbol, if defined, indicates that the program is running under
?C: DOS with DJGPP.
?C:.
?C:OS2_SYSTEM:
?C: This symbol, if defined, indicates that the program is running under
?C: an OS/2 system.
?C:.
?C:BSD_SYSTEM:
?C: This symbol, if defined, indicates that the program is running under
?C: a BSD system.
?C:.
?C:LINUX_SYSTEM:
?C: This symbol, if defined, indicates that the program is running under
?C: a Linux system.
?C:.
?H:#$d_eunice EUNICE_SYSTEM  /**/
?H:#$d_eunice VMS_SYSTEM  /**/
?H:#$d_xenix XENIX_SYSTEM  /**/
?H:#$d_dos DOS_SYSTEM  /**/
?H:#$d_os2 OS2_SYSTEM  /**/
?H:#$d_bsd BSD_SYSTEM  /**/
?H:#$d_linux LINUX_SYSTEM  /**/
?H:.
?F:./bsd ./usg ./v7 ./osf1 ./eunice ./xenix ./venix ./dos ./os2 ./gnu ./linux
?T:xxx DJGPP MACHTYPE
: make some quick guesses about what we are up against
echo " "
$echo $n "Hmm...  $c"
echo exit 1 >bsd
echo exit 1 >usg
echo exit 1 >v7
echo exit 1 >osf1
echo exit 1 >eunice
echo
 exit 1 >xenix
echo exit 1 >venix
```

```
echo exit 1 >os2
echo exit 1 >gnu
echo exit 1 >linux
echo exit 1 >dos
d_bsd="$undef"
d_linux="$undef"
d_dos="$undef"
d_os2="$undef"
?X:
?X: Do not use 'usrinc', or we get a circular dependency. because
?X: usrinc is defined in usrinc.U, which relies on us...
?X:
$cat /usr/include/signal.h /usr/include/sys/signal.h >foo 2>/dev/null
if test -f /osf_boot || $contains 'OSF/1' /usr/include/ctype.h >/dev/null 2>&1
then
 echo "Looks kind of like an OSF/1 system, but we'll see..."
 echo exit 0 >osf1
elif test `echo abc | $tr a-z A-Z` = Abc ; then
 xxx=`./loc addbib blurfl $pth`
 if $test -f $xxx; then
 echo "Looks kind of like a USG system with BSD features, but we'll see..."
  echo exit 0 >bsd
  echo exit 0 >usg
 else
  if $contains SIGTSTP foo >/dev/null 2>&1 ; then
   echo "Looks kind of like an extended USG system, but we'll see..."
  else
   echo "Looks kind of like a USG system, but we'll see..."
  fi
  echo exit 0 >usg
 fi
elif $contains SIGTSTP foo >/dev/null
 2>&1 ; then
 echo "Looks kind of like a BSD system, but we'll see..."
 d_bsd="$define"
 echo exit 0 >bsd
elif
 $rm --version 2>/dev/null >foo;
 $contains "Free Software Foundation" foo >/dev/null
then
 xxx=`uname`
 echo exit 0 >gnu
 echo "Looks kind of like a GNU/$xxx system, but we'll see..."
 if $test X$xxx = XLinux; then
  d_linux="$define"
  echo exit 0 >linux
 fi
else
```

```
 echo "Looks kind of like a Version 7 system, but we'll see..."
 echo exit 0 >v7
fi
case "$eunicefix" in
*unixtovms*)
 $cat <<'EOI'
There is, however, a strange, musty smell in the air that reminds me of
something...hmm...yes...I've got it...there's a VMS nearby, or I'm a Blit.
EOI
 echo exit 0 >eunice
 d_eunice="$define"
: it so happens the Eunice I know will not run shell scripts in Unix format
 ;;
*)
 echo " "
 echo "Congratulations.  You aren't running Eunice."
 d_eunice="$undef"
 ;;
esac
case "$p_" in
:) ;;
*)
 $cat <<'EOI'
I have the feeling something is not exactly right, however...don't tell me...
EOI
 if
 test -n "$DJGPP"; then
  case "X${MACHTYPE:-nonesuchmach}" in
  cygwin) echo "hah!... you're running under Cygwin!";;
  *) echo "got it... you're running DOS with DJGPP!";;
  esac
  echo exit 0 >dos
  d_dos="$define"
 else
  $cat <<'EOI'
lemme think...does HAL ring a bell?...no, of course, you're only running OS/2!
EOI
  echo exit 0 >os2
  d_os2="$define"
 fi
 ;;
esac
if test -f /xenix; then
 echo "Actually, this looks more like a XENIX system..."
 echo exit 0 >xenix
 d_xenix="$define"
else
 echo " "
```

```
 echo "It's not Xenix..."
 d_xenix="$undef"
fi
chmod +x xenix
$eunicefix xenix
if test -f /venix; then
 echo "Actually, this looks more like a VENIX system..."
 echo exit 0 >venix
else
 echo " "
 if ./xenix; then
  : null
 else
  echo "Nor is it Venix..."
 fi
fi
chmod +x bsd usg v7 osf1 eunice xenix venix dos os2 gnu linux
$eunicefix bsd usg v7 osf1 eunice xenix venix dos os2 gnu linux
$rm -f foo
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Guess.U
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```
?RCS: $Id: ssizetype.U,v 3.0.1.3 1997/02/28 16:24:21 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: ssizetype.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:24:21  ram
?RCS: patch61: integrated perl5 concerns for mis-configured sfio
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:30:28  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:33:06  ram
?RCS: patch32: created
```

```
 by ADO
?RCS:
?MAKE:ssizetype: Myread Typedef sizetype cat rm_try Compile run i_stdlib
?MAKE: -pick add $@ %<
?S:ssizetype:
?S: This variable defines ssizetype to be something like ssize_t,
?S: long or int.  It is used by functions that return a count
?S: of bytes or an error condition.  It must be a signed type.
?S: We will pick a type such that sizeof(SSize_t) == sizeof(Size_t).
?S:.
?C:SSize_t:
?C: This symbol holds the type used by functions that return
?C: a count of bytes or an error condition.  It must be a signed type.
?C: It is usually ssize_t, but may be long or int, etc.
?C: It may be necessary to include <sys/types.h> or <unistd.h>
?C: to get any typedef'ed information.
?C: We will pick a type such that sizeof(SSize_t) == sizeof(Size_t).
?C:.
?H:#define SSize_t $ssizetype /* signed count of bytes */
?H:.
?F:!try
: see what type is used for signed size_t
set ssize_t ssizetype int stdio.h sys/types.h
eval $typedef
dflt="$ssizetype"
?X: Now check out whether sizeof(SSize_t)
 == sizeof(Size_t)
$cat > try.c <<EOM
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <sys/types.h>
#define Size_t $sizetype
#define SSize_t $dflt
int main()
{
 if (sizeof(Size_t) == sizeof(SSize_t))
  printf("$dflt\n");
 else if (sizeof(Size_t) == sizeof(int))
  printf("int\n");
 else
  printf("long\n");
 exit(0);
}
EOM
echo " "
```

```
set try
if eval $compile_ok && $run ./try > /dev/null; then
 ssizetype=`$run ./try`
 echo "I'll be using $ssizetype for functions returning a byte count." >&4
else
 $cat >&4 <<EOM
Help! I can't compile and run the ssize_t test program: please enlighten me!
(This is probably a misconfiguration in your system or libraries, and
you really ought to fix it.  Still, I'll try anyway.)

I need a type that is the same size as $sizetype, but is guaranteed to
be signed.  Common values are ssize_t, int and long.

EOM
 rp="What signed type is the same size as $sizetype?"
 . ./myread
 ssizetype="$ans"
fi
$rm_try
```

Found in path(s):
*
 /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/ssizetype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: fpostype.U,v $
?RCS: Revision 3.0.1.2  1994/08/29  16:20:52  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:59:59  ram
?RCS: patch30: created
?RCS:
?MAKE:fpostype: Myread Typedef
?MAKE: -pick add $@ %<
?S:fpostype:
?S: This variable defines Fpos_t to be something like fpost_t, long,
?S: uint, or whatever type is used to declare file positions in libc.
```

```
?S:.
?C:Fpos_t:
?C: This symbol holds the type used to declare file positions
 in libc.
?C: It can be fpos_t, long, uint, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Fpos_t $fpostype  /* File position type */
?H:.
: see what type file positions are declared as in the library
set fpos_t fpostype long stdio.h sys/types.h
eval $typedef
echo " "
dflt="$fpostype"
rp="What is the type for file position used by fsetpos()?"
. ./myread
fpostype="$ans"
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/fpostype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_finitel: Inlibc
?MAKE: -pick add $@ %<
?S:d_finitel:
?S: This variable conditionally defines the HAS_FINITEL symbol, which
?S: indicates to the C program that the finitel() routine is available.
?S:.
?C:HAS_FINITEL:
?C: This symbol, if defined, indicates that the finitel routine is
?C: available to check whether a long double is finite
?C: (non-infinity non-NaN).
?C:.
?H:#$d_finitel HAS_FINITEL  /**/
?H:.
?LINT:set d_finitel
: see if finitel exists
set finitel d_finitel
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_finitel.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getnent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_getnent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getnent: Inlibc
?MAKE: -pick add $@ %<
?S:d_getnent:
?S: This variable conditionally defines HAS_GETNETENT if getnetent() is
?S: available to look up network names in some data base or another.
?S:.
?C:HAS_GETNETENT:
?C: This symbol, if defined, indicates that the getnetent() routine is
?C: available to look up network names in some data base
 or another.
?C:.
?H:#$d_getnent HAS_GETNETENT  /**/
?H:.
?LINT:set d_getnent
: see if getnetent exists
set getnetent d_getnent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_getnent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Head.U 6 2006-08-25 22:21:46Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Head.U,v $
?RCS: Revision 3.0.1.9  1997/02/28  15:02:09  ram
?RCS: patch61: make sure we unset CDPATH for shells that support this
?RCS: patch61: improved Korn shell detection and handling
?RCS:
?RCS: Revision 3.0.1.8  1995/07/25  13:40:02  ram
?RCS: patch56: added SVR4-ish /opt directories to path list (ADO)
?RCS: patch56: OS/2 platforms are using another path separator
?RCS:
?RCS: Revision 3.0.1.7  1995/03/21  08:46:15  ram
?RCS: patch52: definition of
 paths wrongly added spurious ':' chars
?RCS:
?RCS: Revision 3.0.1.6  1994/10/29  15:54:19  ram
?RCS: patch36: make sure ENV is unset before calling /bin/ksh
?RCS:
?RCS: Revision 3.0.1.5  1994/08/29  16:03:44  ram
?RCS: patch32: now sets PATH only using existing directories
?RCS:
?RCS: Revision 3.0.1.4  1994/06/20  06:54:28  ram
?RCS: patch30: now computes its invocation name into 'me'
?RCS: patch30: symbol me is made visible to all units read-only
?RCS:
?RCS: Revision 3.0.1.3  1993/12/15  08:15:07  ram
?RCS: patch15: added /sbin:/usr/sbin:/usr/libexec in PATH for BSD/386
?RCS:
?RCS: Revision 3.0.1.2  1993/11/10  17:32:35  ram
?RCS: patch14: ensure PATH is reset to '.' before testing for alias
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:38:07  ram
?RCS: patch7: not all 'test' programs support the -x option
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This is the very first unit in the Configure script.  It is mostly just
?X:
 things to keep people from getting into a tizzy right off the bat.
?X:
?MAKE:Head:
?MAKE: -pick wipe $@ %<
?V:PATH p_ _exe me newsh
?T:argv p paths OS2_SHELL DJGPP
```

```
?T:inksh needksh avoidksh newsh changesh reason
?F:!*
?LINT:extern ENV CDPATH SHELL MACHTYPE _exe is_os2
?LINT:change ENV CDPATH is_os2
?LINT:nocomment
#! /bin/sh
#
# If these # comments don't work, trim them. Don't worry about any other
# shell scripts, Configure will trim # comments from them for you.
#
# (If you are trying to port this package to a machine without sh,
# I would suggest you have a look at the prototypical config_h.SH file
# and edit it to reflect your system. Some packages may include samples
# of config.h for certain machines, so you might look for one of those.)
#
?X:
?X: NOTE THAT A CONFIGURE SCRIPT IS IN THE PUBLIC DOMAIN (whether or not
?X: the software which uses it is in the public domain).
?X:
# Yes, you may rip this off to use in other distribution packages. This
# script belongs to the public
 domain and cannot be copyrighted.
#
?X:
?X: WE ASK YOU NOT TO REMOVE OR ALTER THE FOLLOWING PARAGRAPH, PLEASE:
?X:
# Note: this Configure script was generated automatically by the tool
# called "metaconfig". Rather than working with this copy of Configure,
# you should use metaconfig. Perl uses a modified version of this
# tool, and this, together with the metaconfig units, are available
# in the git repository:
#    $ git clone https://github.com/Perl/metaconfig metaconfig
# The original dist package (including metaconfig) is available on github:
#    $ git clone https://github.com/rmanfredi/dist.git dist-git
#
?X: OK, I'll not alter, but I'll add to it then ...
# Though this script was generated by metaconfig from metaunits, it is
# OK to send patches against Configure itself (but not to commit them
# to blead). It's up to
# the Configure maintainers to backport the patch to the metaunits if it
# is accepted. Exceptions to this rule, and more information, is in
# Porting/pumpkin.pod.
?X:
?X:
 NOTA BENE:
?X: If you develop you own version of metaconfig based on this work,
?X: you have to add some comments telling that the script was generated
?X: by your version, not mine: It credits your work.
```

```
?X:

# Generated using [metaconfig <VERSION> PL<PATCHLEVEL>]
# with additional metaconfig patches from https://github.com/Perl/metaconfig

cat >c1$$ <<EOF
ARGGGHHHH!!!!!

SCO csh still thinks true is false.  Write to SCO today and tell them that next
year Configure ought to "rm /bin/csh" unless they fix their blasted shell. :-)

(Actually, Configure ought to just patch csh in place.  Hmm.  Hmmmmm.  All
we'd have to do is go in and swap the && and || tokens, wherever they are.)

[End of diatribe. We now return you to your regularly scheduled programming...]
EOF
cat >c2$$ <<EOF

OOPS!  You naughty creature!  You didn't run Configure with sh!
I will attempt to remedy the situation by running sh for you...
EOF

true || cat c1$$ c2$$
true || exec sh $0 $argv:q

(exit $?0) || cat
 c2$$
(exit $?0) || exec sh $0 $argv:q
rm -f c1$$ c2$$

if test -f /dev/cputype -a -f /dev/drivers -a -f /dev/osversion; then
 cat <<EOF
***
*** I'm sorry but this system looks like Plan 9 and Plan 9 doesn't do
*** Configure that well.  (Plan 9 is close to UNIX but not close enough.)
*** Please read the README.plan9 for further instructions.
*** Cannot continue, aborting.
***
EOF
 exit 1
fi

if test -f /sys/utilities/MultiView ; then
 # AmigaOS, test -c for /dev/null is not useful
 :
elif test ! -c /dev/null ; then
 cat <<EOF
***
```

```
*** I'm sorry, but /dev/null appears to be a file rather than a device.
*** Please consult your operating sytem's notes for making a device
*** in /dev.
*** Cannot continue, aborting.
***
EOF
 exit 1
fi

: compute my invocation name
me=$0
case "$0" in
*/*)
 me=`echo $0 | sed -e 's!.*/\(.*\)!\1!' 2>/dev/null`
 test "$me" || me=$0
 ;;
esac

?X:
?X: To be able to run under OS/2, we must detect that early enough to use
?X: the proper path separator, stored in $p_.
 It is : on UNIX and ; on
?X: DOS-ish systems such as OS/2.
?X:
: Proper separator for the PATH environment variable
p_=:
: On OS/2 this directory should exist if this is not floppy only system ":-]"
if test -d c:/. || ( uname -a | grep -i 'os\(/\|\)2' 2>&1 ) 2>&1 >/dev/null ; then
 if test -n "$OS2_SHELL"; then
  p_=\;
  PATH=`cmd /c "echo %PATH%" | tr '\\\\' / `
?X: That's a bug in ksh5.22
  OS2_SHELL=`cmd /c "echo %OS2_SHELL%" | tr '\\\\' / | tr '[A-Z]' '[a-z]'`
  is_os2=yes
 elif test -n "$DJGPP"; then
  case "X${MACHTYPE:-nonesuchmach}" in
  *cygwin|*msys) ;;
  *) p_=\; ;;
  esac
 fi
fi

?X:
?X: There are two schools of thoughts here. Some people correctly argue that
?X: the user has a better chance than we do of setting a reasonable PATH and
?X: others argue that Configure is the best place there is to set up a suitable
?X: PATH. Well, here we try to compromise by keeping the user's PATH and
?X: appending some directories which are known to work on some machine or the
```

```
?X: other.
 The rationale behind this being that a novice user might not have a
?X: proper environment variable set, and some directories like /etc (where
?X: chown is located on some BSD systems) may be missing--RAM.
?X:
?X: SVR4 adds an /opt directory for optional packages.  Some sites use
?X: various permutations on /opt as opposed to /usr or /usr/local.-- ADO
?X:
?X: We only add directories that are not already in the PATH of the
?X: user and the directories must exist also.
?X:
?X: 20040627, Merijn, HP-UX's ANSI compiler is in /opt/ansic/bin if present
?X:  and should be before /usr/ccs/bin, where the braindead bundled compiler
?X:  can be found. The /usr/ccs/bin compiler cannot be used to build perl.
?X:
: Proper PATH setting
paths='/bin /usr/bin /usr/local/bin /usr/ucb /usr/local /usr/lbin'
paths="$paths /opt/bin /opt/local/bin /opt/local /opt/lbin"
paths="$paths /usr/5bin /etc /usr/gnu/bin /usr/new /usr/new/bin /usr/nbin"
paths="$paths /opt/gnu/bin /opt/new /opt/new/bin /opt/nbin"
paths="$paths
 /sys5.3/bin /sys5.3/usr/bin /bsd4.3/bin /bsd4.3/usr/ucb"
paths="$paths /bsd4.3/usr/bin /usr/bsd /bsd43/bin /opt/ansic/bin /usr/ccs/bin"
paths="$paths /etc /usr/lib /usr/ucblib /lib /usr/ccs/lib"
paths="$paths /sbin /usr/sbin /usr/libexec"
paths="$paths /system/gnu_library/bin"

for p in $paths
do
 case "$p_$PATH$p_" in
 *$p_$p$p_*) ;;
 *) test -d $p && PATH=$PATH$p_$p ;;
 esac
done

PATH=.$p_$PATH
export PATH

: shall we be using ksh?
inksh=''
needksh=''
avoidksh=''
newsh=/bin/ksh
changesh=''
?X: Use (alias -x) and not (alias) since zsh and bash recognize the alias
?X: builtin but not the -x option which is typically ksh...
?X: We need to set up PATH before calling the "alias" built-in since some
?X: systems like HP-UX have a binary called /bin/alias.
```

```
if (PATH=.; alias -x) >/dev/null 2>&1; then
  inksh=true
fi
?X: On HP-UX, large Configure scripts may exercise a bug in /bin/sh, use ksh
if test -f /hp-ux -a -f /bin/ksh; then
 needksh='to avoid sh bug in "here document" expansion'
fi
?X:
 On AIX4, /bin/sh is really ksh and it causes problems, use sh
if test -d /usr/lpp -a -f /usr/bin/bsh -a -f /usr/bin/uname; then
 if test X`/usr/bin/uname -v` = X4; then
  avoidksh="to avoid AIX 4's /bin/sh"
  newsh=/usr/bin/bsh
 fi
fi
?X: On Digital UNIX, /bin/sh may start up buggy /bin/ksh, use sh
if test -f /osf_boot -a -f /usr/sbin/setld; then
 if test X`/usr/bin/uname -s` = XOSF1; then
  avoidksh="to avoid Digital UNIX' ksh"
  newsh=/bin/sh
?X: if BIN_SH is set to 'xpg4', sh will start up ksh
  unset BIN_SH
 fi
fi
?X: If we are not in ksh and need it, then feed us back to it
case "$inksh/$needksh" in
/[a-z]*)
?X: Clear ENV to avoid any ~/.kshrc that could alias cd or whatever...
?X: Don't use "unset ENV", that is not portable enough
  ENV=''
  changesh=true
  reason="$needksh"
 ;;
esac
?X: If we are in ksh and must avoid it, then feed us back to a new shell
case "$inksh/$avoidksh" in
true/[a-z]*)
 changesh=true
 reason="$avoidksh"
 ;;
esac
?X: Warn them if they use ksh on
 other systems, which are those where
?X: we don't need ksh nor want to avoid it explicitly, yet are using it.
case "$inksh/$needksh-$avoidksh-" in
true/--)
  cat <<EOM
(I see you are using the Korn shell.  Some ksh's blow up on $me,
```

```
mainly on older exotic systems.  If yours does, try the Bourne shell instead.)
EOM
 ;;
esac
case "$changesh" in
true)
 export newsh
 echo "(Feeding myself to $newsh $reason.)"
?X: Make sure they didn't say sh <Configure by checking whether $0 ends
?X: with Configure or not. If they did say sh <../../Configure, then too
?X: bad for them anyway, since we lost that path indication...
?X: Otherwise, execing $0 ensures we keep the full remote source dir
?X: indication for src.U.
 case "$0" in
 Configure|*/Configure) exec $newsh $0 "$@";;
 *) exec $newsh Configure "$@";;
 esac
 ;;
esac
?X: 2004.06.09 rac
?X: having $newsh persist as ksh here is bad news if ksh doesn't really
?X: exist. this causes us to toss away a perfectly good working test in
?X: bash in favor
 of more exotic external options. see bug 42665.
test -x "${newsh}" || unset newsh

?X: Unset CDPATH to avoid surprises when using cd under some shells
?X: Can't unset it because that's not portable to very old shells.
?X: Can't set it to '' because then bash 2.02 won't do "cd UU"  --AD  6/98.
?X: Don't want to set it to '.' because then ksh prints out the
?X: name of the directory every time you cd to it. --AD 6/98
?X: In order to inflict the least harm, change it only if it's set.
: if needed, set CDPATH to a harmless value that is not chatty
: avoid bash 2.02 problems with empty CDPATH.
case "$CDPATH" in
'') ;;
*) case "$SHELL" in
 *bash*) CDPATH='.' ;;
 *) CDPATH='' ;;
 esac
 ;;
esac

: Configure runs within the UU subdirectory
test -d UU || mkdir UU
?X: Use ./* to avoid any confirmation prompts from enhanced shells -- WED
cd UU && rm -f ./*
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Head.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Begin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Begin.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  14:56:35  ram
?RCS: patch61: added Extractall dependency
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:25:08  ram
?RCS: patch49: avoid an empty rmlist: systems might choke on it (WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/31  09:32:20  ram
?RCS: patch44: created
?RCS:
?X:
?X: This file comes after option processing had been done and after all
?X: the default values have been set up. It marks the beginning
 of questions.
?X: It is important that Options be listed *after* Myinit to ensure that the
?X: default initializations performed by Init and Myinit will not clobber
?X: any setting done on the command line via -D or -U.
?X:
?MAKE:Begin: Myinit Options package Extractall
?MAKE: -pick add $@ %<
: Eunice requires " " instead of "", can you believe it
echo " "
: Here we go...
echo "Beginning of configuration questions for $package."

?X: Make sure the rm below is given a non-empty list for some systems.
?X: This is run only when within the UU directory, hence we can safely
?X: attempt to rm a non-existent 'X' file...
trap 'echo " "; test -d ../UU && rm -rf X $rmlist; exit 1' 1 2 3 15
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Begin.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setnetent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_setnetent_r setnetent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_setnetent_r:
?S: This variable conditionally defines the HAS_SETNETENT_R symbol,
?S: which indicates to the C program that the setnetent_r()
?S: routine is available.
?S:.
?S:setnetent_r_proto:
?S: This variable encodes the prototype of setnetent_r.
?S: It is zero if d_setnetent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setnetent_r
?S: is defined.
?S:.
?C:HAS_SETNETENT_R:
?C: This symbol, if defined, indicates that the setnetent_r routine
?C: is
 available to setnetent re-entrantly.
?C:.
?C:SETNETENT_R_PROTO:
?C: This symbol encodes the prototype of setnetent_r.
?C: It is zero if d_setnetent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setnetent_r
?C: is defined.
?C:.
?H:#$d_setnetent_r HAS_SETNETENT_R /**/
?H:#define SETNETENT_R_PROTO $setnetent_r_proto /**/
?H:.
?T:try hdrs d_setnetent_r_proto
: see if setnetent_r exists
set setnetent_r d_setnetent_r
eval $inlibc
case "$d_setnetent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_setnetent_r_proto:$usethreads" in
 ":define") d_setnetent_r_proto=define
  set d_setnetent_r_proto setnetent_r $hdrs
```

```
 eval $hasproto ;;
*) ;;
esac
case "$d_setnetent_r_proto" in
define)
case "$setnetent_r_proto" in
"|0) try='int setnetent_r(int, struct netent_data*);'
./protochk "$extern_C $try" $hdrs && setnetent_r_proto=I_ID ;;
esac
case "$setnetent_r_proto" in
"|0) try='void setnetent_r(int, struct netent_data*);'
./protochk
"$extern_C $try" $hdrs && setnetent_r_proto=V_ID ;;
esac
case "$setnetent_r_proto" in
"|0) d_setnetent_r=undef
 setnetent_r_proto=0
 echo "Disabling setnetent_r, cannot determine prototype." >&4 ;;
* ) case "$setnetent_r_proto" in
 REENTRANT_PROTO*) ;;
 *) setnetent_r_proto="REENTRANT_PROTO_$setnetent_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "setnetent_r has no prototype, not using it." >&4 ;;
 esac
 d_setnetent_r=undef
 setnetent_r_proto=0
 ;;
esac
;;
*) setnetent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_setnetent_r.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: newslib.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: newslib.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:23  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:newslib newslibexp: test inews Oldconfig Getfile
?MAKE: -pick add $@ %<
?S:newslib:
?S: This variable contains the eventual value of the NEWSLIB symbol,
?S: which holds the name of the directory serving as the news library.
?S: It may have a ~ on the front.  See newslibexp for expanded version.
?S:.
?S:newslibexp:
?S: This variable contains
 the ~ expanded name of the news library
?S: directory.  See newslib.
?S:.
?C:NEWSLIB:
?C: This symbol contains the name of the directory serving as the news
?C: library.  The program must be prepared to do ~ expansion on it.
?C:.
?C:NEWSLIB_EXP:
?C: This symbol is the ~ expanded version of NEWSLIB, for programs that
?C: do not wish to deal with it at run-time.
?C:.
?H:#define NEWSLIB "$newslib"  /**/
?H:#define NEWSLIB_EXP "$newslibexp" /**/
?H:.
?LINT:change inews
: figure out news library
case "$newslib" in
")
 dflt=/usr/lib/news
 ;;
*)  dflt=$newslib ;;
esac
echo " "
fn=d~
rp='Where is your news library?'
. ./getfile
newslib="$ans"
newslibexp="$ansexp"
if $test -f $newslibexp/inews; then
 echo "Aha!  Inews is really in $newslibexp!  Maybe this is 2.10.2..." >&4
 case "$inews" in
```

```
 inews)
  : null
  ;;
 *) echo "(Make sure $inews isn't an old version.)";;
 esac
 inews=$newslibexp/inews
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/newslib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_casti32.U,v 3.0.1.3 1995/05/12 12:10:45 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_casti32.U,v $
?RCS: Revision 3.0.1.3  1995/05/12  12:10:45  ram
?RCS: patch54: made sure cc and ccflags are conditional dependencies
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:09:37  ram
?RCS: patch36: declare signal handler correctly (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:06  ram
?RCS: patch32: created by ADO
?RCS:
?X:
?X: Can the compiler cast large floats to
 32-bit integers?
?X:
?MAKE:d_casti32: cat Compile rm_try intsize Setvar test signal_t run i_stdlib
?MAKE: -pick add $@ %<
?S:d_casti32:
?S: This variable conditionally defines CASTI32, which indicates
?S: whether the C compiler can cast large floats to 32-bit ints.
?S:.
?C:CASTI32:
?C: This symbol is defined if the C compiler can cast negative
?C: or large floating point numbers to 32-bit ints.
```

```
?C:.
?H:#$d_casti32 CASTI32  /**/
?H:.
?T:xxx yyy
?F:!try
?LINT:set d_casti32
: check for ability to cast large floats to 32-bit ints.
echo " "
echo 'Checking whether your C compiler can cast large floats to int32.' >&4
if $test "$intsize" -ge 4; then
 xxx=int
else
 xxx=long
fi
$cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <sys/types.h>
#include <signal.h>
$signal_t blech(int s) { exit(3); }
int main()
{
 $xxx i32;
 double f, g;
 int result = 0;
 char str[16];
 signal(SIGFPE, blech);

 /* Don't let compiler optimize the test away.
  Store the number
   in a writable string for gcc to pass to sscanf under HP-UX.
 */
 sprintf(str, "2147483647");
 sscanf(str, "%lf", &f); /* f = (double) 0x7fffffff; */
 g = 10 * f;
 i32  = ($xxx) g;

 /* x86 processors will probably give 0x8000 0000, which is a
   sign change.  We don't want that.  We want to mimic SPARC
   behavior here, which is to preserve the sign and give
   back 0x7fff ffff.
 */
 if (i32 != ($xxx) f)
  result |= 1;
 exit(result);
```

```
}
EOCP
set try
if eval $compile_ok; then
 $run ./try 2>/dev/null
 yyy=$?
else
 echo "(I can't seem to compile the test program--assuming it can't)"
 yyy=1
fi
case "$yyy" in
0) val="$define"
 echo "Yup, it can."
 ;;
*) val="$undef"
 echo "Nope, it can't."
 ;;
esac
set d_casti32
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_casti32.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: longsize.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: longsize.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:09:35  ram
?RCS: patch61: code moved to intsize.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:24:31  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
```

```
?X: 'longsize' is now defined within intsize.U
?X:
?LINT: empty
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/longsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: bitpbyte.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:02:54  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:bitpbyte: cat rm Myread +cc +ccflags
?MAKE: -pick add $@ %<
?S:bitpbyte:
?S: This variable contains the value of the BITS_PER_BYTE symbol, which
?S: indicates to the C program how many bits there are in a byte.
?S:.
?C:BITS_PER_BYTE:
?C: This symbol contains the number
 of bits in a byte, so that the C
?C: preprocessor can make decisions based on it.
?C:.
?H:#define BITS_PER_BYTE $bitpbyte  /**/
?H:.
?F:!try
: check for length of byte
echo " "
case "$bitpbyte" in
")
 echo "Checking to see how many bits there are in a byte..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
?X: Standard C requires a macro CHAR_BIT in <limits.h>
```

```
#ifdef __STDC__
#include <limits.h>
#ifndef CHAR_BIT
#define CHAR_BIT 8
#endif
#ifndef BITSPERBYTE
#define BITSPERBYTE CHAR_BIT
#endif
#else
?X: On non standard C, try with <values.h>
#include <values.h>
#ifndef BITSPERBYTE
#define BITSPERBYTE 8
#endif
#endif
int main()
{
 printf("%d\n", BITSPERBYTE);
}
EOCP
 if $cc $ccflags -o try try.c >/dev/null 2>&1 ; then
  dflt=`./try`
 else
  dflt='8'
  echo "(I can't seem to compile the test program.  Guessing...)"
 fi
 ;;
*)
 dflt="$bitpbyte"
 ;;
esac
rp="What is the length of a byte (in bits)?"
. ./myread
bitpbyte="$ans"
$rm -f try.c try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/bitpbyte.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysstat.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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```

```
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysstat.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:48:30  ram
?RCS: patch61: created
?RCS:
?MAKE:i_sysstat: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysstat:
?S: This variable conditionally defines the I_SYS_STAT symbol,
?S: and indicates whether a C program should include <sys/stat.h>.
?S:.
?C:I_SYS_STAT (I_SYSSTAT):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/stat.h>.
?C:.
?H:#$i_sysstat I_SYS_STAT  /**/
?H:.
?LINT:set
 i_sysstat
: see if sys/stat.h is available
set sys/stat.h i_sysstat
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sysstat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorbin.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorbin.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:d_vendorbin vendorbin vendorbinexp installvendorbin: Getfile \
 Setprefixvar Oldconfig Prefixit vendorprefix
?MAKE: -pick add $@ %<
```

```
?Y:TOP
?S:vendorbin:
?S: This variable contains the eventual value of the VENDORBIN symbol.
?S: It may have a ~ on the front.
?S: The standard distribution will put nothing in this directory.
?S: Vendors who distribute perl
 may wish to place additional
?S: binaries in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorbinexp:
?S: This variable is the ~name expanded version of vendorbin, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorbin="
?S:installvendorbin:
?S: This variable is really the same as vendorbinexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?S:d_vendorbin:
?S: This variable conditionally defines PERL_VENDORBIN.
?S:.
?C:PERL_VENDORBIN:
?C: If defined, this symbol contains the name of a directory
?C: for holding vendor-supplied executables.
?C: It may have a ~ on the front.
?C: The standard distribution will put nothing in this directory.
?C: Vendors who distribute perl may wish to place additional
?C: binaries in this directory with
?C:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?C: or equivalent.
  See INSTALL for details.
?C:.
?C:PERL_VENDORBIN_EXP:
?C: This symbol contains the ~name expanded version of VENDORBIN, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#$d_vendorbin PERL_VENDORBIN "$vendorbin"  /**/
?H:#$d_vendorbin PERL_VENDORBIN_EXP "$vendorbinexp"  /**/
?H:.
?LINT:change prefixvar
?LINT:set installvendorbin
: Set the vendorbin variables
case "$vendorprefix" in
") d_vendorbin="$undef"
 vendorbin="
```

```
 vendorbinexp="
 ;;
*) d_vendorbin="$define"
 : determine where vendor-supplied executables go.
 case "$vendorbin" in
 ") dflt=$vendorprefix/bin ;;
 *) dflt="$vendorbin" ;;
 esac
 fn=d~+
 rp='Pathname for the vendor-supplied executables directory?'
 . ./getfile
 vendorbin="$ans"
 vendorbinexp="$ansexp"
 ;;
esac
prefixvar=vendorbin
. ./installprefix
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/vendorbin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2017-2018, H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_dup3: Inlibc
?MAKE: -pick add $@ %<
?S:d_dup3:
?S: This variable conditionally defines HAS_DUP3 if dup3() is
?S: available to duplicate file descriptors.
?S:.
?C:HAS_DUP3:
?C: This symbol, if defined, indicates that the dup3 routine is
?C: available to duplicate file descriptors.
?C:.
?H:#$d_dup3 HAS_DUP3 /**/
?H:.
?LINT:set d_dup3
: see if dup3 exists
set dup3 d_dup3
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_dup3.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isinfl: Inlibc
?MAKE: -pick add $@ %<
?S:d_isinfl:
?S: This variable conditionally defines the HAS_ISINFL symbol, which
?S: indicates to the C program that the isinfl() routine is available.
?S:.
?C:HAS_ISINFL:
?C: This symbol, if defined, indicates that the isinfl routine is
?C: available to check whether a long double is an infinity.
?C:.
?H:#$d_isinfl HAS_ISINFL  /**/
?H:.
?LINT:set d_isinfl
: see if isinfl exists
set isinfl d_isinfl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_isinfl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_values.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_values.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:48:34  ram
?RCS: patch61: created
```

```
?RCS:
?MAKE:i_values: Inhdr
?MAKE: -pick add $@ %<
?S:i_values:
?S: This variable conditionally defines the I_VALUES symbol, and indicates
?S: whether a C program may include <values.h> to get symbols like MAXLONG
?S: and friends.
?S:.
?C:I_VALUES:
?C: This symbol, if defined, indicates to the C program that it should
?C: include
 <values.h> to get definition of symbols like MINFLOAT or
?C: MAXLONG, i.e. machine dependant limitations.  Probably, you
?C: should use <limits.h> instead, if it is available.
?C:.
?H:#$i_values I_VALUES  /**/
?H:.
?LINT:set i_values
: see if this is a values.h system
set values.h i_values
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_values.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memchr.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:32  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_memchr: Inlibc
?MAKE: -pick add $@ %<
?S:d_memchr:
?S: This variable conditionally defines the HAS_MEMCHR symbol, which
?S: indicates to the C program that the memchr() routine is available
?S: to scan a block of memory for a character.
?S:.
```

```
?C:HAS_MEMCHR:
?C: This symbol, if defined, indicates that the memchr routine is available
?C: to scan a block of memory for a character.
  If undefined, roll your own.
?C:.
?H:#$d_memchr HAS_MEMCHR  /**/
?H:.
?LINT:set d_memchr
: see if memchr exists
set memchr d_memchr
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_memchr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysstatvfs.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysstatvfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysstatvfs:
?S: This variable conditionally defines the I_SYSSTATVFS symbol,
?S: and indicates whether a C program should include <sys/statvfs.h>.
?S:.
?C:I_SYS_STATVFS:
?C: This symbol, if defined, indicates that <sys/statvfs.h> exists and
?C: should be included.
?C:.
?H:#$i_sysstatvfs I_SYS_STATVFS  /**/
?H:.
?LINT:set i_sysstatvfs
: see if this is a sys/statvfs.h system
set sys/statvfs.h i_sysstatvfs
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_sysstatvfs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: pidtype.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:31:27  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:33  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:pidtype: Myread Typedef
?MAKE: -pick add $@ %<
?S:pidtype:
?S: This variable defines PIDTYPE to be something like pid_t, int,
?S: ushort, or whatever type is used to declare process ids in the kernel.
?S:.
?C:Pid_t (PIDTYPE):
?C: This symbol holds the type
 used to declare process ids in the kernel.
?C: It can be int, uint, pid_t, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Pid_t $pidtype  /* PID type */
?H:.
: see what type pids are declared as in the kernel
set pid_t pidtype int stdio.h sys/types.h
eval $typedef
dflt="$pidtype"
echo " "
rp="What type are process ids on this system declared as?"
. ./myread
pidtype="$ans"
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/pidtype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isinf: Inlibc cat Compile rm_try Setvar
?MAKE: -pick add $@ %<
?S:d_isinf:
?S: This variable conditionally defines the HAS_ISINF symbol, which
?S: indicates to the C program that the isinf() routine is available.
?S:.
?C:HAS_ISINF:
?C: This symbol, if defined, indicates that the isinf routine is
?C: available to check whether a double is an infinity.
?C:.
?H:#$d_isinf HAS_ISINF  /**/
?H:.
?LINT:set d_isinf
: check for isinf
echo "Checking to see if you have isinf..." >&4
$cat >try.c <<EOCP
#include <math.h>
int main() { return isinf(0.0); }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have isinf."
else
 val="$undef"
 echo "You do not have isinf."
fi
$rm_try
set d_isinf
eval $setvar
```

Found
 in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_isinf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: floatsize.U,v 3.0.1.1 1994/10/29 16:17:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
?RCS: $Log: floatsize.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:17:09  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:floatsize: cat rm Myread Compile run
?MAKE: -pick add $@ %<
?S:floatsize:
?S: This variable contains the value of the FLOATSIZE symbol, which
?S: indicates to the C program how many bytes there are in a float.
?S:.
?C:FLOATSIZE:
?C: This
 symbol contains the size of a float, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define FLOATSIZE $floatsize  /**/
?H:.
?F:!try
: check for length of float
echo " "
case "$floatsize" in
")
 echo "Checking to see how big your floating point numbers are..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
   printf("%d\n", (int)sizeof(float));
   exit(0);
}
EOCP
 set try
 if eval $compile_ok; then
  floatsize=`$run ./try`
 else
  dflt='4'
  echo "(I can't seem to compile the test program.  Guessing...)"
  rp="What is the size of a floating point number (in bytes)?"
  . ./myread
  floatsize="$ans"
 fi
 ;;
esac
$rm -f try.c try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/floatsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996,1998 Andy Dougherty
?RCS: Copyright (c) 1996, Sven Verdoolaege
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_gnulibc gnulibc_version: Myread Oldconfig Setvar rm_try \
 cat Compile run
?MAKE: -pick add $@ %<
?S:d_gnulibc:
?S: Defined if we're dealing with the GNU C Library.
?S:.
?S:gnulibc_version:
?S: This variable contains the version number of the GNU C library.
?S: It is usually something like '2.2.5'.  It is a plain '' if this
?S: is not the GNU C library, or if the version is unknown.
?S:.
?C:HAS_GNULIBC ~ %<:
?C: This
 symbol, if defined, indicates to the C program that
?C: the GNU C library is being used.  A better check is to use
?C: the __GLIBC__ and __GLIBC_MINOR__ symbols supplied with glibc.
?C:.
?H:?%<:#$d_gnulibc HAS_GNULIBC   /**/
?H:?%<:#if defined(HAS_GNULIBC) && !defined(_GNU_SOURCE)
?H:?%<:#define _GNU_SOURCE
?H:?%<:#endif
?H:.
?F:!glibc.ver !try.c !try
?LINT: set d_gnulibc
?LINT: usefile try.c
?LINT: known _GNU_SOURCE
?X: gnulibc can be executed by calling __libc_main().
?X: Ulrich Drepper doesn't think any other libc does that,
?X: but we check if it says 'GNU C Library' to be sure.
?X:
```

```
?X: Alas, as of 3/1998 glibc 2.0.7 reportedly isn't going to
?X: have __libc_main() anymore. :-(.  Fortunately, all released
?X: versions of glibc 2.x.x _do_ have CPP variables.  For 2.0.6,
?X: they are:
?X: #define __GLIBC__  2
?X: #define__GLIBC_MINOR__ 0.
?X: (The '6' isn't available :-(.
?X: glibc2.1 will also have
?X:  extern const char * __gnu_get_libc_release(void);
?X:  extern const char *
 __gnu_get_libc_version(void);
?X: functions.   --thanks to Andreas Jaeger.   --AD  6/1998.
?X: Although the exact format isn't documented, __gnu_get_libc_version()
?X: returns a simple string '2.1.3' in glibc 2.1.3.
?X:
: determine whether we are using a GNU C library
echo " "
echo "Checking for GNU C Library..." >&4
cat >try.c <<'EOCP'
/* Find out version of GNU C library.  __GLIBC__ and __GLIBC_MINOR__
  alone are insufficient to distinguish different versions, such as
  2.0.6 and 2.0.7.  The function gnu_get_libc_version() appeared in
  libc version 2.1.0.      A. Dougherty,  June 3, 2002.
*/
#include <stdio.h>
int main(void)
{
#ifdef __GLIBC__
#   ifdef __GLIBC_MINOR__
#       if __GLIBC__ >= 2 && __GLIBC_MINOR__ >= 1
#           include <gnu/libc-version.h>
     printf("%s\n",  gnu_get_libc_version());
#       else
     printf("%d.%d\n",  __GLIBC__, __GLIBC_MINOR__);
#       endif
#   else
 printf("%d\n",  __GLIBC__);
#   endif
   return 0;
#else
   return 1;
#endif
}
EOCP
set
 try
if eval $compile_ok && $run ./try > glibc.ver; then
 val="$define"
```

```
 gnulibc_version=`$cat glibc.ver`
 echo "You are using the GNU C Library version $gnulibc_version"
else
 val="$undef"
 gnulibc_version=''
 echo "You are not using the GNU C Library"
fi
$rm_try glibc.ver
set d_gnulibc
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_gnulibc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
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?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isfinitel: Inlibc
?MAKE: -pick add $@ %<
?S:d_isfinitel:
?S: This variable conditionally defines the HAS_ISFINITEL symbol, which
?S: indicates to the C program that the isfinitel() routine is available.
?S:.
?C:HAS_ISFINITEL:
?C: This symbol, if defined, indicates that the isfinitel routine is
?C: available to check whether a long double is finite.
?C: (non-infinity non-NaN).
?C:.
?H:#$d_isfinitel HAS_ISFINITEL  /**/
?H:.
?LINT:set d_isfinitel
: see if isfinitel exists
set isfinitel d_isfinitel
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_isfinitel.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: rootid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
```

```
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: rootid.U,v $
?RCS: Revision 3.0.1.1  1995/01/30  14:45:36  ram
?RCS: patch49: now only prints a single empty line when outputting something
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:rootid: sed
?MAKE: -pick add $@ %<
?S:rootid:
?S: This variable contains the eventual value of the ROOTID symbol,
?S: which is the uid of root.
?S:.
?C:ROOTID:
?C: This symbol contains the uid of root, normally
 0.
?C:.
?H:#define ROOTID $rootid  /**/
?H:.
: determine root id
rootid=`$sed -e "/^root:/{s/^[^:]*:[^:]*:\([^:]*\).*'''$'''/\1/" -e "q" -e "}" -e "d" </etc/passwd`
case "$rootid" in
") rootid=0 ;;
*) echo " "; echo "Root uid = $rootid" >&4 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/rootid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
?MAKE:d_int64_t: Inhdr cat rm_try Setvar Compile i_inttypes
?MAKE: -pick add $@ %<
?S:d_int64_t:
?S: This symbol will be defined if the C compiler supports int64_t.
?S:.
?C:HAS_INT64_T:
?C: This symbol will defined if the C compiler supports int64_t.
?C: Usually the <inttypes.h> needs to be included, but sometimes
?C: <sys/types.h> is enough.
?C:.
?H:#$d_int64_t     HAS_INT64_T              /**/
?H:.
?LINT:set d_int64_t
: check for int64_t
echo " "
echo "Checking to see if you have int64_t..." >&4
$cat >try.c <<EOCP
#include
 <sys/types.h>
#$i_inttypes I_INTTYPES
#ifdef I_INTTYPES
#include <inttypes.h>
#endif
int main() { int64_t x = 7; }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have int64_t."
else
 val="$undef"
 echo "You do not have int64_t."
fi
$rm_try
set d_int64_t
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_int64_t.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_niin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_niin.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit looks wether <netinet/in.h> is available or not
?X:
?MAKE:i_niin i_sysin: Inhdr
?MAKE: -pick add $@ %<
?S:i_niin:
?S: This variable conditionally defines I_NETINET_IN, which indicates
?S: to the C program that it should include <netinet/in.h>. Otherwise,
?S: you may try <sys/in.h>.
?S:.
?S:i_sysin:
?S: This variable conditionally
 defines I_SYS_IN, which indicates
?S: to the C program that it should include <sys/in.h> instead of
?S: <netinet/in.h>.
?S:.
?C:I_NETINET_IN:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <netinet/in.h>. Otherwise, you may try <sys/in.h>.
?C:.
?C:I_SYS_IN (I_SYSIN):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/in.h> instead of <netinet/in.h>.
?C:.
?H:#$i_niin I_NETINET_IN /**/
?H:#$i_sysin I_SYS_IN  /**/
?H:.
?LINT:set i_niin i_sysin
: see if this is a netinet/in.h or sys/in.h system
set netinet/in.h i_niin sys/in.h i_sysin
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_niin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
```

```
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtold: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtold:
?S: This variable conditionally defines the HAS_STRTOLD symbol, which
?S: indicates to the C program that the strtold() routine is available.
?S:.
?C:HAS_STRTOLD:
?C: This symbol, if defined, indicates that the strtold routine is
?C: available to convert strings to long doubles.
?C:.
?H:#$d_strtold HAS_STRTOLD  /**/
?H:.
?LINT:set d_strtold
: see if strtold exists
set strtold d_strtold
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strtold.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_popen.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_popen.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_popen: Inlibc
?MAKE: -pick add $@ %<
?S:d_popen:
?S: This variable conditionally defines HAS_POPEN if popen() is
?S: available to open a pipe from a process.
?S:.
?C:HAS_POPEN (POPEN):
```

```
?C: This symbol, if defined, indicates that the popen routine is
?C: available to open a pipe from a process.
?C:.
?H:#$d_popen HAS_POPEN  /**/
?H:.
?LINT:set
 d_popen
: see if popen exists
set popen d_popen
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_popen.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Finish.U,v $
?RCS: Revision 3.0.1.6  1995/02/15  14:09:30  ram
?RCS: patch51: now clearer about how to edit config.sh at the prompt (WED)
?RCS:
?RCS: Revision 3.0.1.5  1994/10/29  15:53:14  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.4  1994/05/06  14:19:37  ram
?RCS: patch23: added blank lines around 'End of Configure'
?RCS:
?RCS: Revision 3.0.1.3  1993/10/16  13:46:09  ram
?RCS: patch12: replaced Config_h by Magic_h in the dependency line
?RCS:
?RCS:
 Revision 3.0.1.2  1993/09/13  15:45:26  ram
?RCS: patch10: fixed shell evaluation w/o shell escape while in silent mode
?RCS:
?RCS: Revision 3.0.1.1  1993/08/30  08:55:59  ram
?RCS: patch8: prevents myread from blocking on empty answers, exceptionally
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:55  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?X:
?X: This unit is the very last one in the Configure script.  It runs all the
?X: SH files, which among other things produce config.h and (usually) Makefile.
?X: It offers to do a make depend if the Makefile contains that target.
?X:
?MAKE:Finish: Chk_MANI Extract Myread Oldsym Magic_h cat rm contains \
 test package make
?MAKE: -pick add $@ %<
?F:!config.sh
?T:pwd
: Finish up by extracting the .SH files
case "$alldone" in
exit)
?X: They supplied the -E switch
 echo "Stopping at your request, leaving temporary files around."
 exit 0
 ;;
cont)
 ;;
")
 dflt="
 nostick=true
 $cat <<EOM

If you'd like to make any changes to the config.sh
 file before I begin
to configure things, do it as a shell escape now (e.g. !vi config.sh).

EOM
 rp="Press return or use a shell escape to edit config.sh:"
 . UU/myread
 nostick="
 case "$ans" in
 ") ;;
 *) : in case they cannot read
  sh 1>&4 -c "$ans";;
 esac
 ;;
esac

: if this fails, just run all the .SH files by hand
. ./config.sh

?X:
?X: Turn silent mode off from now on (we want a verbose file extraction).
?X: This means we have to explicitly test for '$silent' from now on to
?X: strip off any verbose messages.
```

```
?X:
echo " "
exec 1>&4
pwd=`pwd`
. ./UU/extract
cd "$pwd"

if $contains '^depend:' [Mm]akefile >/dev/null 2>&1; then
 dflt=y
 case "$silent" in
 true) ;;
 *)
  $cat <<EOM

Now you need to generate make dependencies by running "$make depend".
You might prefer to run it in background: "$make depend > makedepend.out &"
It can take a while, so you might not want to run it right now.

EOM
  ;;
 esac
 rp="Run $make depend now?"
 . UU/myread
 case "$ans" in
 y*)
  $make depend
 && echo "Now you must run '$make'."
  ;;
 *)
  echo "You must run '$make depend' then '$make'."
  ;;
 esac
elif test -f [Mm]akefile; then
 echo " "
 echo "Now you must run a $make."
else
 echo "Configure done."
fi

if $test -f Policy.sh; then
   $cat <<EOM

If you compile $package on a different machine or from a different object
directory, copy the Policy.sh file from this object directory to the
new one before you run Configure -- this will help you with most of
the policy defaults.

EOM
```

```
fi
if $test -f UU/config.msg; then
   echo "Hmm.  I also noted the following information while running:"
   echo " "
   $cat UU/config.msg >&4
fi
?X:
?X: kit*isdone files are left over by shell archives built using the makedist
?X: script which comes from dist, while ark*isdone files are left over by
?X: the cshar archive maker.
?X:
$rm -f kit*isdone ark*isdone
$rm -rf UU

: End of Configure
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Finish.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_ndbm.U,v $
?RCS: Revision 3.0.1.1  1995/05/12  12:16:53  ram
?RCS: patch54: made more robust by checking both header and lib (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:23  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_ndbm: Inhdr Inlibc Setvar
?MAKE: -pick add $@ %<
?S:i_ndbm (d_ndbm):
?S: This variable conditionally defines the I_NDBM symbol, which
?S: indicates to the C program that <ndbm.h> exists and should
?S: be included.
?S:.
?C:I_NDBM (HAS_NDBM NDBM):
?C: This
```

```
 symbol, if defined, indicates that <ndbm.h> exists and should
?C: be included.
?C:.
?H:#$i_ndbm I_NDBM /**/
?H:.
?T:t_ndbm d_dbm_open
?LINT:set i_ndbm
: see if ndbm.h is available
?X: t_ndbm is a tentative check.  We might just have the .h, not the lib -- ADO
set ndbm.h t_ndbm
eval $inhdr
case "$t_ndbm" in
$define)
 : see if dbm_open exists
 set dbm_open d_dbm_open
 eval $inlibc
 case "$d_dbm_open" in
 $undef)
  t_ndbm="$undef"
  echo "We won't be including <ndbm.h>"
  ;;
 esac
 ;;
esac
val="$t_ndbm"
set i_ndbm
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_ndbm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_dirent.U,v $
?RCS: Revision 3.0.1.4  1994/10/29  16:20:01  ram
?RCS: patch36: failed scanning for 'd_namlen' with missing <dirent.h> (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:01:25  ram
```

```
?RCS: patch30: added direntrytype for hints, merely for NeXT (ADO)
?RCS: patch30: now checks for both struct dirent and direct (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:22:37  ram
?RCS: patch27: new variable direntrytype for proper type setting (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24
 14:11:15  ram
?RCS: patch16: added new Direntry_t pseudo-type for directory entries
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit looks whether there is a dirent system or not
?X:
?MAKE:i_dirent d_dirnamlen direntrytype: test contains Setvar \
 Myread Findhdr cppstdin cppflags cppminus rm_try
?MAKE: -pick add $@ %<
?S:i_dirent:
?S: This variable conditionally defines I_DIRENT, which indicates
?S: to the C program that it should include <dirent.h>.
?S:.
?S:d_dirnamlen:
?S: This variable conditionally defines DIRNAMLEN, which indicates
?S: to the C program that the length of directory entry names is
?S: provided by a d_namelen field.
?S:.
?S:direntrytype:
?S: This symbol is set to 'struct direct' or 'struct dirent' depending on
?S: whether dirent is available or not. You should use this pseudo type to
?S: portably declare your directory entries.
?S:.
?C:I_DIRENT:
?C: This symbol, if defined, indicates to the C program
 that it should
?C: include <dirent.h>. Using this symbol also triggers the definition
?C: of the Direntry_t define which ends up being 'struct dirent' or
?C: 'struct direct' depending on the availability of <dirent.h>.
?C:.
?C:DIRNAMLEN:
?C: This symbol, if defined, indicates to the C program that the length
?C: of directory entry names is provided by a d_namlen field.  Otherwise
?C: you need to do strlen() on the d_name field.
?C:.
?C:Direntry_t:
?C: This symbol is set to 'struct direct' or 'struct dirent' depending on
?C: whether dirent is available or not. You should use this pseudo type to
```

```
?C: portably declare your directory entries.
?C:.
?H:#$i_dirent I_DIRENT  /**/
?H:#$d_dirnamlen DIRNAMLEN /**/
?H:?%<:@if I_DIRENT && Direntry_t
?H:?%<:#define Direntry_t $direntrytype
?H:?%<:@end
?H:.
?T:xinc guess1 guess2
?LINT:set i_dirent d_dirnamlen
: see if this is a dirent system
echo " "
if xinc=`./findhdr dirent.h`; $test "$xinc"; then
 val="$define"
 echo "<dirent.h> found." >&4
else
 val="$undef"
 if
 xinc=`./findhdr sys/dir.h`; $test "$xinc"; then
  echo "<sys/dir.h> found." >&4
  echo " "
 else
  xinc=`./findhdr sys/ndir.h`
 fi
 echo "<dirent.h> NOT found." >&4
fi
set i_dirent
eval $setvar

?X: Use struct dirent or struct direct?   If we're using dirent.h,
?X: it's probably struct dirent, but apparently not always.
?X: Assume $xinc still contains the name of the header file we're using.
@if direntrytype || Direntry_t
: Look for type of directory structure.
echo " "
$cppstdin $cppflags $cppminus < "$xinc" > try.c

case "$direntrytype" in
"|' ')
 case "$i_dirent" in
 $define) guess1='struct dirent' ;;
 *) guess1='struct direct'  ;;
 esac
 ;;
*) guess1="$direntrytype"
 ;;
esac
```

```
case "$guess1" in
'struct dirent') guess2='struct direct' ;;
*) guess2='struct dirent' ;;
esac

if $contains "$guess1" try.c >/dev/null 2>&1; then
 direntrytype="$guess1"
 echo "Your directory entries are $direntrytype." >&4
elif $contains "$guess2" try.c >/dev/null 2>&1; then
 direntrytype="$guess2"
 echo
 "Your directory entries seem to be $direntrytype." >&4
else
 echo "I don't recognize your system's directory entries." >&4
 rp="What type is used for directory entries on this system?"
 dflt="$guess1"
 . ./myread
 direntrytype="$ans"
fi
$rm_try

@end

@if d_dirnamlen || DIRNAMLEN
: see if the directory entry stores field length
echo " "
$cppstdin $cppflags $cppminus < "$xinc" > try.c
if $contains 'd_namlen' try.c >/dev/null 2>&1; then
 echo "Good, your directory entry keeps length information in d_namlen." >&4
 val="$define"
else
 echo "Your directory entry does not know about the d_namlen field." >&4
 val="$undef"
fi
set d_dirnamlen
eval $setvar
$rm_try

@end
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_dirent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ctime_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_ctime_r ctime_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_time i_systime extern_C
?MAKE: -pick add $@ %<
?S:d_ctime_r:
?S: This variable conditionally defines the HAS_CTIME_R symbol,
?S: which indicates to the C program that the ctime_r()
?S: routine is available.
?S:.
?S:ctime_r_proto:
?S: This variable encodes the prototype of ctime_r.
?S: It is zero if d_ctime_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_ctime_r
?S: is defined.
?S:.
?C:HAS_CTIME_R:
?C: This symbol, if defined, indicates that the ctime_r routine
?C: is available to ctime re-entrantly.
?C:.
?C:CTIME_R_PROTO:
?C: This
 symbol encodes the prototype of ctime_r.
?C: It is zero if d_ctime_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_ctime_r
?C: is defined.
?C:.
?H:#$d_ctime_r HAS_CTIME_R /**/
?H:#define CTIME_R_PROTO $ctime_r_proto /**/
?H:.
?T:try hdrs d_ctime_r_proto
: see if ctime_r exists
set ctime_r d_ctime_r
eval $inlibc
case "$d_ctime_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_time time.h $i_systime sys/time.h"
 case "$d_ctime_r_proto:$usethreads" in
 ":define") d_ctime_r_proto=define
  set d_ctime_r_proto ctime_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_ctime_r_proto" in
 define)
```

```
 case "$ctime_r_proto" in
 "|0) try='char* ctime_r(const time_t*, char*);'
 ./protochk "$extern_C $try" $hdrs && ctime_r_proto=B_SB ;;
 esac
 case "$ctime_r_proto" in
 "|0) try='char* ctime_r(const time_t*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && ctime_r_proto=B_SBI ;;
 esac
 case "$ctime_r_proto" in
 "|0) try='int ctime_r(const
 time_t*, char*);'
 ./protochk "$extern_C $try" $hdrs && ctime_r_proto=I_SB ;;
 esac
 case "$ctime_r_proto" in
 "|0) try='int ctime_r(const time_t*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && ctime_r_proto=I_SBI ;;
 esac
 case "$ctime_r_proto" in
 "|0) d_ctime_r=undef
  ctime_r_proto=0
  echo "Disabling ctime_r, cannot determine prototype." >&4 ;;
 * ) case "$ctime_r_proto" in
  REENTRANT_PROTO*) ;;
  *) ctime_r_proto="REENTRANT_PROTO_$ctime_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "ctime_r has no prototype, not using it." >&4 ;;
  esac
  d_ctime_r=undef
  ctime_r_proto=0
  ;;
 esac
 ;;
*) ctime_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_ctime_r.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: otherlibdirs.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999-2000, Andy Dougherty

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: otherlibdirs.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?RCS: Revision 1.1  1999/07/08 18:20:26  doughera
?RCS: Initial revision
?RCS:
?RCS:
?MAKE:otherlibdirs d_perl_otherlibdirs: Myread cat sitelib sitearch \
 vendorarch vendorlib Setvar
?MAKE: -pick add $@ %<
?Y:TOP
?S:otherlibdirs:
?S: This variable contains a colon-separated set of paths for the perl
?S: binary to search for additional library files
 or modules.
?S: These directories will be tacked to the end of @INC.
?S: Perl will automatically search below each path for version-
?S: and architecture-specific directories.  See inc_version_list
?S: for more details.
?S: A value of ' ' means 'none' and is used to preserve this value
?S: for the next run through Configure.
?S:.
?S:d_perl_otherlibdirs:
?S: This variable conditionally defines PERL_OTHERLIBDIRS, which
?S: contains a colon-separated set of paths for the perl binary to
?S: include in @INC.  See also otherlibdirs.
?S:.
?C:PERL_OTHERLIBDIRS:
?C: This variable contains a colon-separated set of paths for the perl
?C: binary to search for additional library files or modules.
?C: These directories will be tacked to the end of @INC.
?C: Perl will automatically search below each path for version-
?C: and architecture-specific directories.  See PERL_INC_VERSION_LIST
?C: for more details.
?C:.
?H:#$d_perl_otherlibdirs PERL_OTHERLIBDIRS "$otherlibdirs"  /**/
?H:.
?LINT: set d_perl_otherlibdirs
:
```

```
 Final catch-all directories to search
$cat <<EOM

Lastly, you can have perl look in other directories for extensions and
modules in addition to those already specified.
These directories will be searched after
 $sitearch
 $sitelib
EOM
test X"$vendorlib" != "X" && echo ' ' $vendorlib
test X"$vendorarch" != "X" && echo ' ' $vendorarch
echo ' '
case "$otherlibdirs" in
"|' ') dflt='none' ;;
*) dflt="$otherlibdirs" ;;
esac
$cat <<EOM
Enter a colon-separated set of extra paths to include in perl's @INC
search path, or enter 'none' for no extra paths.

EOM

rp='Colon-separated list of additional directories for perl to search?'
. ./myread
case "$ans" in
' '|''|none) otherlibdirs=' ' ;;
*) otherlibdirs="$ans" ;;
esac
case "$otherlibdirs" in
' ') val=$undef ;;
*) val=$define ;;
esac
set d_perl_otherlibdirs
eval $setvar

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
5.36.0/U/installdirs/otherlibdirs.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_localtime_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS: Copyright (c) 2006,2007 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
```

```
?RCS:
?MAKE:d_localtime_r d_localtime_r_needs_tzset localtime_r_proto: Inlibc \
 cat run Protochk Hasproto i_systypes usethreads i_time i_systime \
 rm_try Compile extern_C i_stdlib i_unistd i_malloc
?MAKE: -pick add $@ %<
?S:d_localtime_r:
?S: This variable conditionally defines the HAS_LOCALTIME_R symbol,
?S: which indicates to the C program that the localtime_r()
?S: routine is available.
?S:.
?S:d_localtime_r_needs_tzset:
?S: This variable conditionally defines the LOCALTIME_R_NEEDS_TZSET
?S: symbol, which makes us call tzset before localtime_r()
?S:.
?S:localtime_r_proto:
?S: This
 variable encodes the prototype of localtime_r.
?S: It is zero if d_localtime_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_localtime_r
?S: is defined.
?S:.
?C:HAS_LOCALTIME_R:
?C: This symbol, if defined, indicates that the localtime_r routine
?C: is available to localtime re-entrantly.
?C:.
?C:LOCALTIME_R_NEEDS_TZSET:
?C: Many libc's localtime_r implementations do not call tzset,
?C: making them differ from localtime(), and making timezone
?C: changes using \$ENV{TZ} without explicitly calling tzset
?C: impossible. This symbol makes us call tzset before localtime_r
?C:.
?H:?%<:#$d_localtime_r_needs_tzset LOCALTIME_R_NEEDS_TZSET /**/
?H:?%<:#ifdef LOCALTIME_R_NEEDS_TZSET
?H:?%<:#define L_R_TZSET tzset(),
?H:?%<:#else
?H:?%<:#define L_R_TZSET
?H:?%<:#endif
?H:.
?W:%<:L_R_TZSET
?C:L_R_TZSET:
?C: If localtime_r() needs tzset, it is defined in this define
?C:.
?C:LOCALTIME_R_PROTO:
?C: This symbol encodes the prototype of localtime_r.
?C: It is
 zero if d_localtime_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_localtime_r
?C: is defined.
```

```
?C:.
?H:#$d_localtime_r HAS_LOCALTIME_R /**/
?H:#define LOCALTIME_R_PROTO $localtime_r_proto /**/
?H:.
?T:try hdrs d_localtime_r_proto
?F:!try
: see if localtime_r exists
set localtime_r d_localtime_r
eval $inlibc
case "$d_localtime_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_time time.h $i_systime sys/time.h"
 case "$d_localtime_r_proto:$usethreads" in
 ":define") d_localtime_r_proto=define
  set d_localtime_r_proto localtime_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_localtime_r_proto" in
 define)
 case "$localtime_r_proto" in
 "|0) try='struct tm* localtime_r(const time_t*, struct tm*);'
 ./protochk "$extern_C $try" $hdrs && localtime_r_proto=S_TS ;;
 esac
 case "$localtime_r_proto" in
 "|0) try='int localtime_r(const time_t*, struct tm*);'
 ./protochk "$extern_C $try" $hdrs && localtime_r_proto=I_TS ;;
 esac
 case "$localtime_r_proto"
 in
 "|0) d_localtime_r=undef
  localtime_r_proto=0
  echo "Disabling localtime_r, cannot determine prototype." >&4 ;;
 * ) case "$localtime_r_proto" in
  REENTRANT_PROTO*) ;;
  *) localtime_r_proto="REENTRANT_PROTO_$localtime_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "localtime_r has no prototype, not using it." >&4 ;;
  esac
  d_localtime_r=undef
  localtime_r_proto=0
  ;;
 esac
 ;;
```

```
*) localtime_r_proto=0
 ;;
esac

: see if localtime_r calls tzset
case "$localtime_r_proto" in
REENTRANT_PROTO*)
 $cat >try.c <<EOCP
/*  Does our libc's localtime_r call tzset ?
*  return 0 if so, 1 otherwise.
*/
#$i_systypes I_SYS_TYPES
#$i_unistd I_UNISTD
#$i_time I_TIME
#$i_stdlib I_STDLIB
#$i_malloc I_MALLOC
#ifdef I_SYS_TYPES
#  include <sys/types.h>
#endif
#ifdef I_UNISTD
#  include <unistd.h>
#endif
#ifdef I_TIME
#  include <time.h>
#endif
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <string.h>
#ifdef I_MALLOC
#  include <malloc.h>
#endif
int
 main()
{
   int result = 0;
   time_t t = time(0L);
   char w_tz[]="TZ" "=GMT+5",
  e_tz[]="TZ" "=GMT-5",
 *tz_e = (char*)malloc(16),
 *tz_w = (char*)malloc(16);
   struct tm tm_e, tm_w;
   memset(&tm_e,'\0',sizeof(struct tm));
   memset(&tm_w,'\0',sizeof(struct tm));
   strcpy(tz_e,e_tz);
   strcpy(tz_w,w_tz);

   putenv(tz_e);
```

```
  localtime_r(&t, &tm_e);

  putenv(tz_w);
  localtime_r(&t, &tm_w);

  if( memcmp(&tm_e, &tm_w, sizeof(struct tm)) == 0 )
 result = 1;

  free(tz_e);free(tz_w);
  return result;
}
EOCP
 set try
 if eval $compile; then
    if $run ./try; then
  d_localtime_r_needs_tzset=undef;
    else
  d_localtime_r_needs_tzset=define;
    fi;
 else
    d_localtime_r_needs_tzset=undef;
 fi;
   ;;
 *)
   d_localtime_r_needs_tzset=undef;
   ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_localtime_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: groupstype.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: groupstype.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:18:08  ram
```

```
?RCS: patch36: no longer uses Setvar to set 'groupstype' (ADO)
?RCS: patch36: typo fix in the word 'argument' (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:00:18  ram
?RCS: patch30: created by ADO
?RCS:
?MAKE:groupstype: gidtype d_getgrps Myread Oldconfig Findhdr cat d_setgrps
?MAKE: -pick add $@ %<
?INIT:groupstype=''
?S:groupstype:
?S: This
 variable defines Groups_t to be something like gid_t, int,
?S: ushort, or whatever type is used for the second argument to
?S: getgroups() and setgroups().  Usually, this is the same as
?S: gidtype (gid_t), but sometimes it isn't.
?S:.
?C:Groups_t (GROUPSTYPE):
?C: This symbol holds the type used for the second argument to
?C: getgroups() and setgroups().  Usually, this is the same as
?C: gidtype (gid_t) , but sometimes it isn't.
?C: It can be int, ushort, gid_t, etc...
?C: It may be necessary to include <sys/types.h> to get any
?C: typedef'ed information.  This is only required if you have
?C: getgroups() or setgroups()..
?C:.
?H:?%<:#if defined(HAS_GETGROUPS) || defined(HAS_SETGROUPS)
?H:?%<:#define Groups_t $groupstype /* Type for 2nd arg to [sg]etgroups() */
?H:?%<:#endif
?H:.
?W:%<:getgroups HAS_GETGROUPS setgroups HAS_SETGROUPS
: Find type of 2nd arg to 'getgroups()' and 'setgroups()'
echo " "
case "$d_getgrps$d_setgrps" in
*define*)
 case
 "$groupstype" in
 '') dflt="$gidtype" ;;
 *)  dflt="$groupstype" ;;
 esac
 $cat <<EOM
What type of pointer is the second argument to getgroups() and setgroups()?
Usually this is the same as group ids, $gidtype, but not always.

EOM
 rp='What type pointer is the second argument to getgroups() and setgroups()?'
 . ./myread
 groupstype="$ans"
 ;;
```

```
*)  groupstype="$gidtype";;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/groupstype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_union_semun.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_union_semun.U,v $
?RCS:
?MAKE:d_union_semun d_semctl_semun d_semctl_semid_ds: Compile Setvar Myread run \
 cat rm_try d_sem
?MAKE: -pick add $@ %<
?S:d_union_semun:
?S: This variable conditionally defines HAS_UNION_SEMUN if the
?S: union semun is defined by including <sys/sem.h>.
?S:.
?S:d_semctl_semun:
?S: This variable conditionally defines USE_SEMCTL_SEMUN, which
?S: indicates that union semun is to be used for semctl IPC_STAT.
?S:.
?S:d_semctl_semid_ds:
?S: This variable conditionally defines USE_SEMCTL_SEMID_DS, which
?S: indicates that struct semid_ds * is to be used for semctl IPC_STAT.
?S:.
?C:HAS_UNION_SEMUN:
?C: This symbol, if defined, indicates that the union semun
 is
?C: defined by including <sys/sem.h>.  If not, the user code
?C: probably needs to define it as:
?C:  union semun {
?C:     int val;
?C:     struct semid_ds *buf;
?C:     unsigned short *array;
?C:  }
?C:.
?C:USE_SEMCTL_SEMUN:
?C: This symbol, if defined, indicates that union semun is
?C: used for semctl IPC_STAT.
?C:.
?C:USE_SEMCTL_SEMID_DS:
```

```
?C: This symbol, if defined, indicates that struct semid_ds * is
?C: used for semctl IPC_STAT.
?C:.
?H:#$d_union_semun HAS_UNION_SEMUN /**/
?H:#$d_semctl_semun USE_SEMCTL_SEMUN /**/
?H:#$d_semctl_semid_ds USE_SEMCTL_SEMID_DS /**/
?H:.
?T:xxx also
?F:!try !tryh.h
?LINT: set d_union_semun d_semctl_semun d_semctl_semid_ds
: see whether sys/sem.h defines union semun
echo " "
$cat > try.c <<'END'
#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/sem.h>
int main () { union semun semun; semun.buf = 0; }
END
set try
if eval $compile; then
   echo "You have union semun in <sys/sem.h>." >&4
   val="$define"
else
   echo "You do not have union
 semun in <sys/sem.h>." >&4
   val="$undef"
fi
$rm_try
set d_union_semun
eval $setvar

: see how to do semctl IPC_STAT
case "$d_sem" in
$define)
   echo " "
?X: use tryh.h instead of try.h because $rm_try cleans up try.*
   $cat > tryh.h <<END
#ifndef S_IRUSR
#   ifdef S_IREAD
# define S_IRUSR S_IREAD
# define S_IWUSR S_IWRITE
# define S_IXUSR S_IEXEC
#   else
# define S_IRUSR 0400
# define S_IWUSR 0200
# define S_IXUSR 0100
#   endif
#   define S_IRGRP (S_IRUSR>>3)
```

```
#   define S_IWGRP (S_IWUSR>>3)
#   define S_IXGRP (S_IXUSR>>3)
#   define S_IROTH (S_IRUSR>>6)
#   define S_IWOTH (S_IWUSR>>6)
#   define S_IXOTH (S_IXUSR>>6)
#endif
#ifndef S_IRWXU
#   define S_IRWXU (S_IRUSR|S_IWUSR|S_IXUSR)
#   define S_IRWXG (S_IRGRP|S_IWGRP|S_IXGRP)
#   define S_IRWXO (S_IROTH|S_IWOTH|S_IXOTH)
#endif
END
   : see whether semctl IPC_STAT can use union semun
   case "$d_semctl_semun" in
   ")
     val="$undef"
     $cat > try.c <<END
#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/sem.h>
#include
 <sys/stat.h>
#include <stdio.h>
#include <errno.h>
#include "tryh.h"
#ifndef errno
extern int errno;
#endif
#$d_union_semun HAS_UNION_SEMUN
int main() {
   union semun
#ifndef HAS_UNION_SEMUN
   {
 int val;
 struct semid_ds *buf;
 unsigned short *array;
   }
#endif
   arg;
   int sem, st;

#if defined(IPC_PRIVATE) && defined(S_IRWXU) && defined(S_IRWXG) && defined(S_IRWXO) &&
defined(IPC_CREAT)
   sem = semget(IPC_PRIVATE, 1, S_IRWXU|S_IRWXG|S_IRWXO|IPC_CREAT);
   if (sem > -1) {
 struct semid_ds argbuf;
 arg.buf = &argbuf;
# ifdef IPC_STAT
```

```
 st = semctl(sem, 0, IPC_STAT, arg);
 if (st == 0)
     printf("semun\n");
 else
# endif /* IPC_STAT */
     printf("semctl IPC_STAT failed: errno = %d\n", errno);
# ifdef IPC_RMID
 if (semctl(sem, 0, IPC_RMID, arg) != 0)
# endif /* IPC_RMID */
     printf("semctl IPC_RMID failed: errno = %d\n", errno);
   } else
#endif /* IPC_PRIVATE && ... */
 printf("semget failed: errno = %d\n", errno);
 return 0;
}
END
     set try

     if eval $compile; then
   xxx=`$run ./try`
         case "$xxx" in
         semun) val="$define" ;;
         esac
     fi
     $rm_try
     set d_semctl_semun
     eval $setvar
     ;;
   esac
   case "$d_semctl_semun" in
   $define)
       echo "You can use union semun for semctl IPC_STAT." >&4
 also='also'
       ;;
   *)  echo "You cannot use union semun for semctl IPC_STAT." >&4
 also=''
       ;;
   esac

   : see whether semctl IPC_STAT can use struct semid_ds pointer
   case "$d_semctl_semid_ds" in
   '')
     val="$undef"
     $cat > try.c <<'END'
#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/sem.h>
#include <sys/stat.h>
```

```
#include "tryh.h"
#include <stdio.h>
#include <errno.h>
#ifndef errno
extern int errno;
#endif
int main() {
   union semun
#ifndef HAS_UNION_SEMUN
   {
 int val;
 struct semid_ds *buf;
 unsigned short *array;
   }
#endif
   arg;
   struct semid_ds argbuf;
   int sem, st;

#if defined(IPC_PRIVATE) && defined(S_IRWXU) &&
 defined(S_IRWXG) &&  defined(S_IRWXO) && defined(IPC_CREAT)
   sem = semget(IPC_PRIVATE, 1, S_IRWXU|S_IRWXG|S_IRWXO|IPC_CREAT);
   if (sem > -1) {
 arg.buf = &argbuf;
# ifdef IPC_STAT
 st = semctl(sem, 0, IPC_STAT, arg);
 if (st == 0)
     printf("semid_ds\n");
 else
# endif /* IPC_STAT */
     printf("semctl IPC_STAT failed: errno = %d\n", errno);
# ifdef IPC_RMID
 if (semctl(sem, 0, IPC_RMID, arg) != 0)
# endif /* IPC_RMID */
     printf("semctl IPC_RMID failed: errno = %d\n", errno);
   } else
#endif /* IPC_PRIVATE && ... */
 printf("semget failed: errno = %d\n", errno);

   return 0;
}
END
     set try
     if eval $compile; then
         xxx=`$run ./try`
         case "$xxx" in
         semid_ds) val="$define" ;;
         esac
```

```
    fi
    $rm_try
    set d_semctl_semid_ds
    eval $setvar
    ;;
  esac
  case "$d_semctl_semid_ds" in
  $define)
      echo "You can $also use struct semid_ds* for semctl IPC_STAT." >&4
      ;;
  *)  echo "You cannot use
 struct semid_ds* for semctl IPC_STAT." >&4
      ;;
  esac
  ;;
*)  val="$undef"

  # We do not have the full sem*(2) library, so assume we can not
  # use either.

  set d_semctl_semun
  eval $setvar

  set d_semctl_semid_ds
  eval $setvar
  ;;
esac
$rm_try tryh.h
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_union_semun.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_charsprf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_charsprf.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:49  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:d_charsprf: cat rm +cc Setvar
?MAKE: -pick add $@ %<
?S:d_charsprf:
?S: This variable conditionally defines CHARSPRINTF if this system
?S: declares "char *sprintf()" in stdio.h.  The trend seems to be to
?S: declare it as "int sprintf()".
?S:.
?C:CHARSPRINTF:
?C: This symbol is defined if this system declares "char *sprintf()" in
?C: stdio.h.
  The trend seems to be to declare it as "int sprintf()".  It
?C: is up to the package author to declare sprintf correctly based on the
?C: symbol.
?C:.
?H:#$d_charsprf CHARSPRINTF  /**/
?H:.
?F:!ucbsprf.c !ucbsprf
?LINT:set d_charsprf
: see if sprintf is declared as int or pointer to char
echo " "
$cat >ucbsprf.c <<'EOF'
int main()
{
 int sprintf();
 char buf[10];
 exit((unsigned long)sprintf(buf,"%s","foo") > 10L);
}
EOF
if $cc -o ucbsprf ucbsprf.c >/dev/null 2>&1 && ./ucbsprf; then
 echo "Your sprintf() returns (int)." >&4
 val="$undef"
else
 echo "Your sprintf() returns (char*)." >&4
 val="$define"
fi
set d_charsprf
eval $setvar
$rm -f ucbsprf*
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_charsprf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cf_email.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:05:06  ram
?RCS: patch16: created
?RCS:
?RCS:
?MAKE:cf_email: cat cf_by test myhostname mydomain Oldconfig Myread
?MAKE: -pick add $@ %<
?S:cf_email:
?S: Electronic mail address of the person who ran Configure. This can be
?S: used by units that require the user's e-mail, like MailList.U.
?S:.
?T:cont maildomain
?LINT:extern MAILDOMAIN
: determine the e-mail address of the user who is running us
$cat <<EOM

I need to get your e-mail address
 in Internet format if possible, i.e.
something like user@host.domain. Please answer accurately since I have
no easy means to double check it. The default value provided below
is most probably close to reality but may not be valid from outside
your organization...

EOM
cont=x
while test "$cont"; do
 case "$MAILDOMAIN" in
 ")
  if $test -s /etc/mailname; then
   maildomain=`$cat /etc/mailname`
  else
   maildomain="$myhostname$mydomain"
  fi
  ;;
 *)  maildomain="$MAILDOMAIN";;
 esac
 case "$cf_email" in
 ") dflt="$cf_by@$maildomain";;
 *)  dflt="$cf_email";;
 esac
 rp='What is your e-mail address?'
 . ./myread
```

```
 cf_email="$ans"
 case "$cf_email" in
 *@*.*) cont=" ;;
 *)
  rp='Address does not look like an Internet one.  Use it anyway?'
  case "$fastread" in
  yes) dflt=y ;;
  *) dflt=n ;;
  esac
  . ./myread
  case "$ans" in
  y*) cont=" ;;
  *) echo " " ;;
  esac
  ;;
 esac
done
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/cf_email.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: spitshell.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: spitshell.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  16:22:12  ram
?RCS: patch61: removed useless chatter as this is now done very early
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:37:01  ram
?RCS: patch45: use 'test -f' instead of 'test -r' for exec-only cat progs (WED)
?RCS: patch45: protected "sh -c" within backquotes for Linux and SGI
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:33:00  ram
?RCS: patch32: don't create spitshell under the UU directory
?RCS:
 patch32: allow for cat in /bin or /usr/bin
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:12:58  ram
?RCS: patch10: made #!-failure message more friendly (WAD)
```

```
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:49  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:spitshell shsharp sharpbang: eunicefix sh Head
?MAKE: -pick add $@ %<
?S:spitshell:
?S: This variable contains the command necessary to spit out a runnable
?S: shell on this system.  It is either cat or a grep -v for # comments.
?S:.
?S:shsharp:
?S: This variable tells further Configure units whether your sh can
?S: handle # comments.
?S:.
?S:sharpbang:
?S: This variable contains the string #! if this system supports that
?S: construct.
?S:.
?F:!sharp
?T:xcat p
?X: "paths" comes from Head
?LINT:extern paths _exe
: see if sh knows # comments
?X: This is loaded up early, so avoid being chatty.
?X: echo " "
?X: echo "Checking your $sh to see if it knows about # comments..." >&2
if `$sh -c '#' >/dev/null 2>&1`; then
?X: echo
 "Your $sh handles # comments correctly."
 shsharp=true
 spitshell=cat
?X: echo " "
?X: echo "Okay, let's see if #! works on this system..."
 xcat=/bin/cat
 test -f $xcat$_exe || xcat=/usr/bin/cat
 if test ! -f $xcat$_exe; then
  for p in `echo $PATH | sed -e "s/$p_/ /g"` $paths; do
   if test -f $p/cat$_exe; then
    xcat=$p/cat
    break
   fi
  done
  if test ! -f $xcat$_exe; then
   echo "Can't find cat anywhere!"
   exit 1
  fi
 fi
 echo "#!$xcat" >sharp
```

```
 $eunicefix sharp
 chmod +x sharp
 ./sharp > today 2>/dev/null
 if test -s today; then
?X:  echo "It does."
  sharpbang='#!'
 else
  echo "#! $xcat" > sharp
  $eunicefix sharp
  chmod +x sharp
  ./sharp > today 2>/dev/null
  if test -s today; then
?X:   echo "It does."
   sharpbang='#! '
  else
?X:   echo "Okay, let's see if #! works on this system..."
?X:   echo "It's just a comment."
   sharpbang=': use '
  fi
 fi
else
 echo " "
 echo "Your $sh doesn't grok # comments--I will strip them later on."
 shsharp=false
?X: The
 spitshell script will be perused, so leave it out the UU directory
 cd ..
 echo "exec grep -v '^[  ]*#'" >spitshell
 chmod +x spitshell
 $eunicefix spitshell
 spitshell=`pwd`/spitshell
 cd UU
 echo "I presume that if # doesn't work, #! won't work either!"
 sharpbang=': use '
fi
rm -f sharp today
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/spitshell.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sbrksmart.U,v 3.0.1.2 1995/01/11 15:35:41 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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```

```
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sbrksmart.U,v $
?RCS: Revision 3.0.1.2  1995/01/11  15:35:41  ram
?RCS: patch45: now sets sbrksmart to undef explicitly when lacking sbrk()
?RCS: patch45: forgot a cast when using return value from sbrk()
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:16:45  ram
?RCS: patch16: created
?RCS:
?MAKE:sbrksmart: cat d_sbrk Compile rm
?MAKE: -pick add $@ %<
?S:sbrksmart:
?S: This variable conditionally defines HAS_SMART_SBRK if the sbrk()
?S: routine honors a negative
 argument to lower the break value.
?S:.
?C:HAS_SMART_SBRK:
?C: This symbol is defined when the sbrk() system call may be used with
?C: a negative argument to lower the break value, therefore releasing
?C: core to the system. If not, you'd probably be better off using the
?C: mmap() system call.
?C:.
?H:#$sbrksmart HAS_SMART_SBRK /**/
?H:.
?T:dumb
?F:!sbrk
: see if sbrk can release core to the kernel
echo " "
case "$d_sbrk" in
"$define")
 echo "Let's see if your sbrk() is smart enough to release core..." >&4
 $cat > sbrk.c <<'EOC'
#define INC 256  /* Small enough to be less than a page size */

int main()
{
 char *obrk = (char *) sbrk(0);
 char *nbrk;

 nbrk = (char *) sbrk(INC);
 if (nbrk == (char *) -1)
  exit(1); /* Not enough memory */
 if (nbrk != obrk)
  exit(2); /* Unreliable sbrk() */
 nbrk = (char *) sbrk(-INC);
```

```
 if (nbrk == (char *) -1)
  exit(3); /* May have understood negative arg as huge positive */
 if (obrk != (char *) sbrk(0))
  exit(4); /* Not smart, definitely */

 exit(0);  /*
 Ok */
}
EOC
 sbrksmart="$undef"
 dumb='-- assuming dumb sbrk().'
 set sbrk
 if eval $compile_ok; then
  ./sbrk >/dev/null 2>&1
  case $? in
  0) sbrksmart="$define"
   echo "Yes, it can be used with negative values." ;;
  1) echo "Sorry, not enough memory $dumb" ;;
  2) echo "No it's not, and besides it seems to be buggy..." ;;
  3) echo "No, it fails with negative values." ;;
  4) echo "Nope, your sbrk() is too dumb." ;;
  *) echo "Err... Unexpected result $dumb" ;;
  esac
 else
  echo "(Could not compile test program $dumb)"
 fi
 ;;
*)
 echo "Since you don't have sbrk(), let's forget about the smart test!"
 sbrksmart="$undef"
 ;;
esac
$rm -f sbrk sbrk.* core
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/sbrksmart.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Findhdr.U,v 3.0.1.2 1994/10/29 15:53:08 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
?RCS: Original Author: Thomas Neumann <tom@smart.bo.open.de>
?RCS:
?RCS: $Log: Findhdr.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  15:53:08  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:03:56  ram
?RCS: patch23: cppminus must be after other cppflags, not before
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a findhdr script which
 is used to locate the header
?X: files in $usrinc or other stranger places using cpp capabilities. The
?X: script is given an include file base name, like 'stdio.h' or 'sys/file.h'
?X: and it returns the full path of the include file and a zero status or an
?X: empty string with an error status if the file could not be located.
?X:
?MAKE:Findhdr: grep test tr rm incpth awk cat startsh \
 cppstdin cppminus +cppflags osname
?MAKE: -pick add $@ %<
?LINT:extern cppfilter
?LINT:define fieldn
?S:fieldn:
?S: This variable is used internally by Configure. It contains the position
?S: of the included file name in cpp output. That is to say, when cpp
?S: pre-processes a #include <file> line, it replaces it by a # line which
?S: contains the original position in the input file and the full name of
?S: included file, between "quotes".
?S:.
?V:fieldn
?F:./findhdr !fieldn
?T:cline pos wanted name awkprg usrincdir status testaccess
: determine filename position in cpp output
echo " "
echo "Computing
 filename position in cpp output for #include directives..." >&4
case "$osname" in
amigaos) fieldn=3 ;;  # Workaround for a bug in abc (pdksh).
esac
case "$fieldn" in
")
case "$osname" in
vos) testaccess=-e ;;
*)   testaccess=-r ;;
```

```
esac
echo '#include <stdio.h>' > foo.c
$cat >fieldn <<EOF
$startsh
$cppstdin $cppflags $cppminus <foo.c 2>/dev/null | \
$grep '^[  ]*#.*stdio\.h' | \
while read cline; do
 pos=1
 set \$cline
 while $test \$# -gt 0; do
  if $test $testaccess \`echo \$1 | $tr -d '"'\`; then
   echo "\$pos"
   exit 0
  fi
  shift
  pos=\`expr \$pos + 1\`
 done
done
EOF
chmod +x fieldn
fieldn=`./fieldn`
$rm -f foo.c fieldn
;;
esac
case $fieldn in
") pos='???';;
1) pos=first;;
2) pos=second;;
3) pos=third;;
*) pos="${fieldn}th";;
esac
echo "Your cpp writes the filename in the $pos field of the line."

?X: To locate a header file, we cannot simply check for $usrinc/file.h, since
?X: some machine have the headers in weird places and our only hope is that
?X: the C pre-processor
 will know how to find those headers. Thank you NexT!
: locate header file
$cat >findhdr <<EOF
$startsh
wanted=\$1
name=''
for usrincdir in $incpth
do
 if test -f \$usrincdir/\$wanted; then
  echo "\$usrincdir/\$wanted"
  exit 0
 fi
```

```
done
awkprg='{ print \$$fieldn }'
echo "#include <\$wanted>" > foo\$\$.c
$cppstdin $cppminus $cppflags < foo\$\$.c 2>/dev/null | \
$cppfilter $grep "^[  ]*#.*\$wanted" | \
while read cline; do
 name=\`echo \$cline | $awk "\$awkprg" | $tr -d ""\`
 case "\$name" in
 *[/\\\\]\$wanted) echo "\$name"; exit 1;;
 *[\\\\/]\$wanted) echo "\$name"; exit 1;;
 *) exit 2;;
 esac;
done;
#
# status = 0: grep returned 0 lines, case statement not executed
# status = 1: headerfile found
# status = 2: while loop executed, no headerfile found
#
status=\$?
$rm -f foo\$\$.c;
if test \$status -eq 1; then
 exit 0;
fi
exit 1
EOF
chmod +x findhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Findhdr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2017 Karl Williamson
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_nl_langinfo_l d_thread_safe_nl_langinfo_l: Compile cat rm_try Oldconfig \
 i_pthread i_stdlib i_langinfo i_locale  \
 usethreads run
?MAKE: -pick add $@ %<
?S:d_nl_langinfo_l:
?S: This variable contains the eventual value of the
?S: HAS_NL_LANGINFO_L symbol, which indicates if the
?S: nl_langinfo_l() function exists.
?S:.
```

```
?S:d_thread_safe_nl_langinfo_l:
?S: This variable contains the eventual value of the
?S: HAS_THREAD_SAFE_NL_LANGINFO_L symbol, which indicates if the
?S: nl_langinfo_l() function exists and is thread-safe.
?S:.
?C:HAS_NL_LANGINFO_L:
?C: This symbol, when defined, indicates presence of the nl_langinfo_l()
?C: function
?C:.
?C:HAS_THREAD_SAFE_NL_LANGINFO_L:
?C: This symbol, when defined,
 indicates presence of the nl_langinfo_l()
?C: function, and that it is thread-safe.
?C:.
?H:#$d_nl_langinfo_l HAS_NL_LANGINFO_L /**/
?H:#$d_thread_safe_nl_langinfo_l HAS_THREAD_SAFE_NL_LANGINFO_L /**/
?H:.
?F:!try
: check for nl_langinfo_l item
$cat <<EOM

Checking to see if you have nl_langinfo_l(), and that it is thread-safe
EOM
?X: Despite claiming that nl_langinfo_l() is thread-safe, the POSIX 2008
?X: standard allows for a non-safe implementation:
?X:
?X:    "nl_langinfo_l() uses an internal per-thread buffer, and nl_langinfo()
?X: uses (in all threads) the same buffer that nl_langinfo_l() uses in the
?X: initial thread. There can be interactions, but only when
?X: nl_langinfo_l() is called in the initial thread"
?X:
?X: This program calls nl_langinfo_l(), then creates a thread, calling plain
?X: nl_langinfo() from within it, then sees if the buffer in the original
?X: thread was changed.
$cat >try.c <<EOCP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#include
 <string.h>
#$i_langinfo I_LANGINFO
#ifdef I_LANGINFO
#  include <langinfo.h>
#endif
#$i_pthread I_PTHREAD
#ifdef I_PTHREAD
#  include <pthread.h>
```

```
#endif
#$i_locale I_LOCALE
#ifdef I_LOCALE
#  include <locale.h>
#endif

void *
thread_start(void * arg)
{
   nl_langinfo(RADIXCHAR);
}

int main() {
   char * main_buffer;
   char save_main_buffer[1000];
   pthread_t subthread;
   pthread_attr_t attr;

   main_buffer = nl_langinfo_l(CODESET, newlocale(LC_ALL_MASK, "C", 0));

   /* If too large for our generous allowance, just assume we don't have
    * it. */
   if (strlen(main_buffer) >= sizeof(save_main_buffer)) {
       exit(1);
   }

   strcpy(save_main_buffer, main_buffer);

   if (pthread_attr_init(&attr) != 0) {
       exit(1);
   }

   if (pthread_create(&subthread, &attr, thread_start, NULL) != 0) {
       exit(1);
   }

   if (pthread_join(subthread, NULL) != 0) {
       exit(1);
   }

   exit(! (strcmp(main_buffer, save_main_buffer) == 0));
}
EOCP
case
 "$usethreads" in
   define)
       set try
       if eval $compile; then
```

```
        echo "Your system has nl_langinfo_l()..." >&4
        d_nl_langinfo_l="$define"
        echo "$d_nl_langinfo_l" >&4
        if $run ./try; then
            echo "and it is thread-safe (just as I'd hoped)." >&4
            d_thread_safe_nl_langinfo_l="$define"
            echo "$d_thread_safe_nl_langinfo_l" >&4
        else
            echo "but it isn't thread-safe." >&4
        fi
    else
        echo "your system does not have nl_langinfo_l()" >&4
    fi
    ;;
  *) echo "Since threads aren't selected, we won't bother looking for nl_langinfo_l()" >&4
esac
if test X"$d_nl_langinfo_l" = X; then
 d_nl_langinfo_l="$undef"
fi
if test X"$d_thread_safe_nl_langinfo_l" = X; then
 d_thread_safe_nl_langinfo_l="$undef"
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_nl_langinfo_l.U
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```
?RCS: $Id$
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?RCS: Copyright (c) 1999, Jarkko Hietaniemi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_stdio_stream_array stdio_stream_array: run \
 Compile cat rm_try Oldconfig Myread Setvar
?MAKE: -pick add $@ %<
?S:d_stdio_stream_array:
?S: This variable tells whether there is an array holding
?S: the stdio streams.
?S:.
?S:stdio_stream_array:
?S: This variable tells the name of the array holding the stdio streams.
```

```
?S: Usual values include _iob, __iob, and __sF.
?S:.
?C:HAS_STDIO_STREAM_ARRAY:
?C: This symbol, if defined, tells that there is an array
?C: holding the stdio streams.
?C:.
?C:STDIO_STREAM_ARRAY:
?C: This
 symbol tells the name of the array holding the stdio streams.
?C: Usual values include _iob, __iob, and __sF.
?C:.
?H:#$d_stdio_stream_array HAS_STDIO_STREAM_ARRAY /**/
?H:?%<:#ifdef HAS_STDIO_STREAM_ARRAY
?H:?%<:#define STDIO_STREAM_ARRAY $stdio_stream_array
?H:?%<:#endif
?H:.
?T:s
?F:!try
: Check stream access
$cat >&4 <<EOM
Checking how to access stdio streams by file descriptor number...
EOM
case "$stdio_stream_array" in
") $cat >try.c <<EOCP
#include <stdio.h>
int main() {
 if (&STDIO_STREAM_ARRAY[fileno(stdin)] == stdin)
   printf("yes\n");
}
EOCP
 for s in _iob __iob __sF
 do
        set try -DSTDIO_STREAM_ARRAY=$s
  if eval $compile; then
   case "`$run ./try`" in
   yes) stdio_stream_array=$s; break ;;
   esac
  fi
 done
 $rm_try
esac
case "$stdio_stream_array" in
") $cat >&4 <<EOM
I can't figure out how to access stdio streams by file descriptor number.
EOM
 d_stdio_stream_array="$undef"
 ;;
*) $cat >&4 <<EOM
```

```
You can access stdio streams by file descriptor number
 by the $stdio_stream_array array.
EOM
 d_stdio_stream_array="$define"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/stdio_streams.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_dlopen.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  13:52:56  ram
?RCS: patch56: force compile-link test since symbol might lie in crt0.o (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:34  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_dlopen: Inlibc runnm
?MAKE: -pick add $@ %<
?S:d_dlopen:
?S: This variable conditionally defines the HAS_DLOPEN symbol, which
?S: indicates to the C program that the dlopen() routine
 is available.
?S:.
?C:HAS_DLOPEN :
?C: This symbol, if defined, indicates that the dlopen routine is
?C: available.
?C:.
?H:#$d_dlopen HAS_DLOPEN  /**/
?H:.
?T: xxx_runnm
?LINT:set d_dlopen
?X: We don't permanently change runnm, but we do temporarily.
?LINT: change runnm
```

```
: see if dlopen exists
?X: On NetBSD and FreeBSD, dlopen is available, but it is in
?X: /usr/lib/crt0.o, not in any of the libraries.  Therefore, do not
?X: use the nm extraction, but use a real compile and link test instead.
xxx_runnm="$runnm"
runnm=false
set dlopen d_dlopen
eval $inlibc
runnm="$xxx_runnm"
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_dlopen.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: Original author Jarkko Hietaniemi <jhi@iki.fi>
?RCS: Merged into dist by Andy Dougherty  July 13, 1998
?RCS:
?MAKE:trnl: Nothing
?MAKE: -pick add $@ %<
?S:trnl:
?S: This variable contains the value to be passed to the tr(1)
?S: command to transliterate a newline.  Typical values are
?S: '\012' and '\n'.  This is needed for EBCDIC systems where
?S: newline is not necessarily '\012'.
?S:.
?T: DJGPP
: Find the appropriate value for a newline for tr
?X: We can't
 use $tr since that would cause a circular dependency via Myread
?X: dos djgpp uses '\015\012', but reportedly is happy with '\012' in the
?X: tr command.  I don't know why it passes the '\n' test but later
?X: refuses to work correctly with it.  --AD  6/14/98
if test -n "$DJGPP"; then
	trnl='\012'
fi
```

```
if test X"$trnl" = X; then
 case "`echo foo | tr '\n' x 2>/dev/null`" in
 foox) trnl='\n' ;;
 esac
fi
if test X"$trnl" = X; then
 case "`echo foo | tr '\012' x 2>/dev/null`" in
 foox) trnl='\012' ;;
 esac
fi
if test X"$trnl" = X; then
      case "`echo foo | tr '\r\n' xy 2>/dev/null`" in
      fooxy) trnl='\n\r' ;;
      esac
fi
if test X"$trnl" = X; then
 cat <<EOM >&2

$me: Fatal Error: cannot figure out how to translate newlines with 'tr'.

EOM
 exit 1
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/trnl.U
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```
?RCS: $Id: contains.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: contains.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:contains: Nothing
?MAKE: -pick add $@ %<
?S:contains:
?S: This variable holds the command to do a grep with a proper return
?S: status.  On most sane systems it is simply "grep".  On insane systems
```

```
?S: it is a grep followed by a cat followed by a test.  This variable
?S: is primarily for the use of other Configure units.
?S:.
: Some
 greps do not return status, grrr.
echo "grimblepritz" >grimble
if grep blurfldyick grimble >/dev/null 2>&1 ; then
 contains=contains
elif grep grimblepritz grimble >/dev/null 2>&1 ; then
 contains=grep
else
 contains=contains
fi
rm -f grimble
: the following should work in any shell
case "$contains" in
contains*)
 echo " "
 echo "AGH!  Grep doesn't return a status.  Attempting remedial action."
 cat >contains <<'EOSS'
grep "$1" "$2" >.greptmp && cat .greptmp && test -s .greptmp
EOSS
chmod +x contains
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/contains.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2017, Lukas Mai
?RCS:
?RCS: You may distribute this file under the terms of either
?RCS:     a) the "Artistic License" which comes with Perl, or
?RCS:     b) the "Artistic License" which comes with dist, or
?RCS:     c) the GNU General Public License as published by the Free
?RCS:     Software Foundation; either version 1, or (at your option) any
?RCS:     later version (see the file "Copying" that comes with the
?RCS:     Perl distribution).
?RCS: Which one to use is your choice.
?RCS: See the U/README file.
?MAKE:d_builtin_add_overflow d_builtin_sub_overflow d_builtin_mul_overflow : Compile Setvar cat run rm_try
?MAKE: -pick add $@ %<
?S:d_builtin_add_overflow:
?S: This variable conditionally defines HAS_BUILTIN_ADD_OVERFLOW, which
?S: indicates that the compiler supports __builtin_add_overflow(x,y,&z)
?S: for safely adding x and y into z while checking for overflow.
?S:.
```

```
?S:d_builtin_sub_overflow:
?S: This
 variable conditionally defines HAS_BUILTIN_SUB_OVERFLOW, which
?S: indicates that the compiler supports __builtin_sub_overflow(x,y,&z)
?S: for safely subtracting y from x into z while checking for overflow.
?S:.
?S:d_builtin_mul_overflow:
?S: This variable conditionally defines HAS_BUILTIN_MUL_OVERFLOW, which
?S: indicates that the compiler supports __builtin_mul_overflow(x,y,&z)
?S: for safely multiplying x and y into z while checking for overflow.
?S:.
?C:HAS_BUILTIN_ADD_OVERFLOW:
?C: This symbol, if defined, indicates that the compiler supports
?C: __builtin_add_overflow for adding integers with overflow checks.
?C:.
?C:HAS_BUILTIN_SUB_OVERFLOW:
?C: This symbol, if defined, indicates that the compiler supports
?C: __builtin_sub_overflow for subtracting integers with overflow checks.
?C:.
?C:HAS_BUILTIN_MUL_OVERFLOW:
?C: This symbol, if defined, indicates that the compiler supports
?C: __builtin_mul_overflow for multiplying integers with overflow checks.
?C:.
?H:#$d_builtin_add_overflow
 HAS_BUILTIN_ADD_OVERFLOW /**/
?H:#$d_builtin_sub_overflow HAS_BUILTIN_SUB_OVERFLOW /**/
?H:#$d_builtin_mul_overflow HAS_BUILTIN_MUL_OVERFLOW /**/
?H:.
?F:!try
?LINT:set d_builtin_add_overflow d_builtin_sub_overflow d_builtin_mul_overflow
: Look for GCC-style __builtin_add_overflow
case "$d_builtin_add_overflow" in
")
   echo " "
   echo "Checking whether your compiler can handle __builtin_add_overflow ..." >&4
   $cat >try.c <<'EOCP'
int main(void) {
   const unsigned int uint_max = ~0u;
   int target_int = 0;
   if (__builtin_add_overflow(1, 2, &target_int) || target_int != 3) {
       return 1;
   }
   if (!__builtin_add_overflow((int)(uint_max >> 1), 1, &target_int)) {
       return 1;
   }
   if (!__builtin_add_overflow(uint_max, -1, &target_int)) {
       return 1;
   }
```

```
  return 0;
}
EOCP
  set try
  if eval $compile && $run ./try; then
      echo "Your C compiler supports __builtin_add_overflow."
      val="$define"
  else
      echo
 "Your C compiler doesn't seem to understand __builtin_add_overflow."
      val="$undef"
  fi
  ;;
*) val="$d_builtin_add_overflow" ;;
esac

set d_builtin_add_overflow
eval $setvar
$rm_try

: Look for GCC-style __builtin_sub_overflow
case "$d_builtin_sub_overflow" in
")
  echo " "
  echo "Checking whether your compiler can handle __builtin_sub_overflow ..." >&4
  $cat >try.c <<'EOCP'
int main(void) {
  const unsigned int uint_max = ~0u;
  int target_int = 0;
  if (__builtin_sub_overflow(1, -2, &target_int) || target_int != 3) {
      return 1;
  }
  if (!__builtin_sub_overflow(-(int)(uint_max >> 1), 2, &target_int)) {
      return 1;
  }
  if (!__builtin_sub_overflow(uint_max, 1, &target_int)) {
      return 1;
  }
  return 0;
}
EOCP
  set try
  if eval $compile && $run ./try; then
      echo "Your C compiler supports __builtin_sub_overflow."
      val="$define"
  else
      echo "Your C compiler doesn't seem to understand __builtin_sub_overflow."
```

```
        val="$undef"
    fi
    ;;
*) val="$d_builtin_sub_overflow" ;;
esac

set d_builtin_sub_overflow
eval $setvar
$rm_try

: Look for GCC-style __builtin_mul_overflow
case "$d_builtin_mul_overflow" in
")
    echo " "
    echo "Checking whether your compiler can handle __builtin_mul_overflow ..." >&4
    $cat >try.c <<'EOCP'
int main(void) {
    const unsigned int uint_max = ~0u;
    int target_int = 0;
    if (__builtin_mul_overflow(2, 3, &target_int) || target_int != 6) {
        return 1;
    }
    if (!__builtin_mul_overflow((int)(uint_max >> 1), 2, &target_int)) {
        return 1;
    }
    if (!__builtin_mul_overflow(uint_max, 1, &target_int)) {
        return 1;
    }
    return 0;
}
EOCP
    set try
    if eval $compile && $run ./try; then
        echo "Your C compiler supports __builtin_mul_overflow."
        val="$define"
    else
        echo "Your C compiler doesn't seem to understand __builtin_mul_overflow."
        val="$undef"
    fi
    ;;
*) val="$d_builtin_mul_overflow"
 ;;
esac

set d_builtin_mul_overflow
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_builtin_overflow.U
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```
?RCS: $Id: Rcs.U 1 2006-08-24 12:32:52Z rmanfredi $
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Rcs.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This is a unit that helps people who write SH scripts and keep them under
?X: RCS, but don't think to protect the $Log and other $Id keywords from
?X: variable substitution (or people like me who do not like to).
?X:
?MAKE:Author Date Header Id Locker Log RCSfile Revision Source State: Oldconfig
?MAKE: -pick weed $@ %<
?LINT:describe Author
 Date Header Id Locker Log RCSfile Revision Source State
: preserve RCS keywords in files with variable substitution, grrr
?Author:Author='$Author'
?Date:Date='$Date'
?Header:Header='$Header'
?Id:Id='$Id'
?$Locker'
?Log:Log='$Log'
?RCSfile:RCSfile='$RCSfile'
?Revision:Revision='$Revision'
?Source:Source='$Source'
?State:State='$State'
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Rcs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_scorfl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_scorfl.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_scorfl: cat Myread Oldconfig nametype Setvar
?MAKE: -pick add $@ %<
?S:d_scorfl:
?S: This variable conditionally defines the SCOREFULL symbol, which
?S: indicates to the C program that any scoreboard kept by the program
?S: should be kept on the basis of the user's full name as opposed to
?S: the user's login name.
?S:.
?C:SCOREFULL:
?C: This
 symbol, if defined, indicates that any scoreboard kept by the
?C: program should be kept on the basis of the user's full name as opposed
?C: to the user's login name.  If the user can change his full name he
?C: can enter multiple scores if this is defined.
?C:.
?H:#$d_scorfl SCOREFULL /**/
?H:.
?LINT:set d_scorfl
: see how they want the scoreboard kept
case "$d_scorfl" in
"$define") dflt=y ;;
*) dflt=n ;;
esac
case "$nametype" in
other) val="$undef" ;;
*)
 $cat <<'EOM'

The scoreboard can be kept with one score per login name, or one score per full
name.  If users can change their full name, or if there is more than one person
on your system with the same full name, you should keep the score by login name
(the full name is still printed).

EOM
 rp='Do you want the scoreboard kept by full name?'
 . ./myread
 case "$ans" in
```

```
 y*) val="$define" ;;
 *) val="$undef" ;;
 esac
 ;;
esac
set d_scorfl
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_scorfl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_stdlib.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_stdlib.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_stdlib: Inhdr
?MAKE: -pick add $@ %<
?S:i_stdlib:
?S: This variable conditionally defines the I_STDLIB symbol, which
?S: indicates to the C program that <stdlib.h> exists and should
?S: be included.
?S:.
?C:I_STDLIB:
?C: This symbol, if defined, indicates that <stdlib.h> exists and should
?C: be included.
?C:.
?H:#$i_stdlib I_STDLIB  /**/
?H:.
?LINT:set
 i_stdlib
: see if stdlib is available
set stdlib.h i_stdlib
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/dist/U/i_stdlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysstatfs.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysstatfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysstatfs:
?S: This variable conditionally defines the I_SYSSTATFS symbol,
?S: and indicates whether a C program should include <sys/statfs.h>.
?S:.
?C:I_SYS_STATFS:
?C: This symbol, if defined, indicates that <sys/statfs.h> exists.
?C:.
?H:#$i_sysstatfs I_SYS_STATFS  /**/
?H:.
?LINT:set i_sysstatfs
: see if this is a sys/statfs.h system
set sys/statfs.h i_sysstatfs
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_sysstatfs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: html3dir.U,v $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: html3dir.U,v $
?RCS:
?MAKE:html3dir html3direxp installhtml3dir: cat sed Loc Myread \
 spackage test Getfile Setprefixvar Prefixit Prefixup html1dir
?MAKE: -pick add $@ %<
?Y:TOP
?D:html3dir="
```

```
?S:html3dir:
?S: This variable contains the name of the directory in which html
?S: source pages are to be put.  This directory is for pages
?S: that describe libraries or modules.  It is intended to
?S: correspond roughly to section 3 of the Unix manuals.
?S:.
?D:html3direxp=''
?S:html3direxp:
?S: This variable
 is the same as the html3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installhtml3dir=''
?S:installhtml3dir:
?S: This variable is really the same as html3direxp, unless you are
?S: using a different installprefix.  For extra portability, you
?S: should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set html3direxp
?LINT:set installhtml3dir
: determine where html pages for libraries and modules go
set html3dir html3dir none
eval $prefixit
$cat <<EOM

If you wish to install html files for modules associated with $spackage,
indicate the appropriate directory here.  To skip installing html files,
answer "none".
EOM
: There is no obvious default.  If they have specified html1dir, then
: try to key off that, possibly changing .../html1 into .../html3.
case "$html3dir" in
'') html3dir=`echo "$html1dir" | $sed 's/1$/3$/'` ;;
*) dflt=$html3dir ;;
esac
fn=dn+~
rp="Directory for the $spackage module
 html pages?"
. ./getfile
prefixvar=html3dir
. ./setprefixvar
: Use ' ' for none so value is preserved next time through Configure
$test X"$html3dir" = "X" && html3dir=' '
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/html3dir.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: usenm.U,v 3.0.1.1 1997/02/28 16:26:40 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: usenm.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:26:40  ram
?RCS: patch61: don't use nm with the GNU C library
?RCS: patch61: added support for Linux shared libs
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:usenm runnm nm_opt nm_so_opt: cat test Myread Oldconfig myuname grep \
 nm d_gnulibc osname egrep rsrc
?MAKE: -pick add $@ %<
?S:usenm:
?S: This variable contains 'true' or 'false' depending
 whether the
?S: nm extraction is wanted or not.
?S:.
?S:runnm:
?S: This variable contains 'true' or 'false' depending whether the
?S: nm extraction should be performed or not, according to the value
?S: of usenm and the flags on the Configure command line.
?S:.
?S:nm_opt:
?S: This variable holds the options that may be necessary for nm.
?S:.
?S:nm_so_opt:
?S: This variable holds the options that may be necessary for nm
?S: to work on a shared library but that can not be used on an
?S: archive library.  Currently, this is only used by Linux, where
?S: nm --dynamic is *required* to get symbols from an ELF library which
?S: has been stripped, but nm --dynamic is *fatal* on an archive library.
?S: Maybe Linux should just always set usenm=false.
?S:.
: see if nm is to be used to determine whether a symbol is defined or not
?X: If there is enough inquiries, it might be worth to wait for the nm
?X: extraction. Otherwise, the C compilations might be a better deal.
?X:
```

```
?X: Don't bother if we're
 using GNU libc -- skimo
?LINT:extern PASE
case "$usenm" in
")
 dflt="
 case "$d_gnulibc" in
 "$define")
  echo " "
  echo "nm probably won't work on the GNU C Library." >&4
  dflt=n
  ;;
 esac
 case "$dflt" in
 ")
  if $test "$osname" = aix -a "X$PASE" != "Xdefine" -a ! -f /lib/syscalls.exp; then
   echo " "
   echo "Whoops!  This is an AIX system without /lib/syscalls.exp!" >&4
   echo "'nm' won't be sufficient on this system." >&4
   dflt=n
  fi
  ;;
 esac
 case "$dflt" in
 ") dflt=`$egrep 'inlibc|csym' $rsrc/Configure | wc -l 2>/dev/null`
  if $test $dflt -gt 20; then
   dflt=y
  else
   dflt=n
  fi
  ;;
 esac
 ;;
*)
 case "$usenm" in
 true|$define) dflt=y;;
 *) dflt=n;;
 esac
 ;;
esac
$cat <<EOM

I can use $nm to extract the symbols from your C libraries. This
is a time consuming task which may generate huge output on the disk (up
to 3 megabytes) but that should make the symbols extraction faster. The
alternative is to skip the 'nm' extraction part and to compile a small
test
```

```
 program instead to determine whether each symbol is present. If
you have a fast C compiler and/or if your 'nm' output cannot be parsed,
this may be the best solution.

You probably shouldn't let me use 'nm' if you are using the GNU C Library.

EOM
rp="Shall I use $nm to extract C symbols from the libraries?"
. ./myread
case "$ans" in
[Nn]*) usenm=false;;
*) usenm=true;;
esac

?X: Name extraction is to be run if 'nm' usage is wanted and if no -r flag
?X: was provided to configure (in which case we simply re-use the previous
?X: values).
runnm=$usenm
case "$reuseval" in
true) runnm=false;;
esac

: nm options which may be necessary
case "$nm_opt" in
") if $test -f /mach_boot; then
  nm_opt=" # Mach
 elif $test -d /usr/ccs/lib; then
  nm_opt='-p' # Solaris (and SunOS?)
 elif $test -f /dgux; then
  nm_opt='-p' # DG-UX
 elif $test -f /lib64/rld; then
  nm_opt='-p' # 64-bit Irix
 else
  nm_opt="
 fi;;
esac

: nm options which may be necessary for shared libraries but illegal
: for archive
 libraries.  Thank you, Linux.
case "$nm_so_opt" in
") case "$myuname" in
 *linux*|gnu*)
  if $nm --help | $grep 'dynamic' > /dev/null 2>&1; then
   nm_so_opt='--dynamic'
  fi
  ;;
 esac
```

```
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/usenm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: contains.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 2020, Raphael Manfredi and Karl Williamson
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:compiler_warning: contains grep osname
?MAKE: -pick add $@ %<
?S:compiler_warning:
?S: This variable holds the command to check if the file specified as a
?S: parameter contains a compiler warning
?S:.
: See if a file contains compiler warnings
: See if a file contains compiler warnings
case "$osname" in
 'aix')
 cat >compiler_warning <<EOSS
# Sample for aix ('.5' indicates the column number in the line):
#    "op.h", line 203.5: 1506-159 (E) Bit field
 type specified for op_type
# Since the word 'warning' isn't present, use a fairly rigorous match of what
# warning messages look like
#            "    o        p        .  h   ", line    203      .   5        :   1506     -    159      (  E  )
$grep -E "^\\"[A-Za-z][A-Za-z0-9_]*\.[ch]\\", line [1-9][0-9]*[.][1-9][0-9]*: [1-9][0-9]*-[1-9][0-9]* \([EW][)] "
"\$1"
EOSS
       compiler_warning=./compiler_warning
       chmod +x $compiler_warning
   ;;
    # Maybe a colon after the 'warning' would be appropriate
 *) compiler_warning="$contains -i warning"
   ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/perl/compiler_warning.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: cppfilecom.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Orginal Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: cppfilecom.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:37  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:cppfilecom cppstdinflags d_cppignhdrs d_cppcanstdin: \
 contains package test Myread Oldconfig Loc Setvar cpp cc cat rm
?MAKE: -pick add $@ %<
?S:cppfilecom:
?S: This variable contains the first part of the string which will invoke
?S: the C preprocessor a file
 and produce to standard output, preserving
?S: comments. Typical value of "cc -E -C" or "/lib/cpp -C".
?S:.
?S:cppstdinflags:
?S: This variable contains any flags necessary to get cppfilecom to read
?S: from the standard input.
?S:.
?S:d_cppignhdrs:
?S: This symbol conditionally defines CPP_IGN_HDRS if CPP_FILE_COM ignores
?S: *.h files.
?S:.
?S:d_cppcanstdin:
?S: This symbol conditionally defines CPP_CAN_STDIN if CPP_FILE_COM can
?S: read standard input directly.
?S:.
?C:CPP_FILE_COM (CPPFILECOM):
?C: This symbol contains the first part of the string which will invoke
?C: the C preprocessor a file and produce to standard output, preserving
?C: comments. Typical value of "cc -E -C" or "/lib/cpp -C".
?C:.
?C:CPP_STDIN_FLAGS (CPPSTDINFLAGS):
?C: This variable contains any flags necessary to get CPP_FILE_COM to
?C: read from the standard input.
```

```
?C:.
?C:CPP_IGN_HDRS (CPPIGNHDRS):
?C: This symbol is defined if CPP_FILE_COM ignores *.h files.
?C:.
?C:CPP_CAN_STDIN (CPPCANSTDIN):
?C: This
 symbol is defined if CPP_FILE_COM can read standard input
?C: directly.
?C:.
?H:#define CPP_FILE_COM "$cppfilecom"
?H:#define CPP_STDIN_FLAGS "$cppstdinflags"
?H:#$d_cppignhdrs CPP_IGN_HDRS  /* does CPP ignore .h files? */
?H:#$d_cppcanstdin CPP_CAN_STDIN  /* can CPP read stdin directly? */
?H:.
?T:cont
?F:!testcpp.c !testcpp.h !testcpp.out
?LINT:set d_cppcanstdin d_cppignhdrs
?LINT:usefile testcpp.c testcpp.out
: see how we invoke the C preprocessor
$cat <<EOM

$package needs to be able to preprocess its input files in a mode which
preserves comments, which is often not the default behaviour.  It should run
the C preprocessor you will use when compiling your own source code, which
should be ISO/ANSI C compliant if you want $package to handle the latest
standard C.  I will try to guess, but I might guess wrongly because it is not
necessarily the same preprocessor used to build $package.

EOM
$cat <<'EOT' >testcpp.c
#define ABC abc
#define XYZ xyz
ABC.XYZ
/* comment */
EOT
:
if $test "X$cppfilecom"
 != "X" && \
 $cppfilecom testcpp.c </dev/null >testcpp.out 2>/dev/null && \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
 $contains comment testcpp.out >/dev/null 2>&1
then
 echo "You used to use $cppfilecom so we'll use that again."
elif echo 'Maybe "'$cc' -E -C" will work...' && \
 $cc -E -C testcpp.c </dev/null >testcpp.out 2>/dev/null && \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
 $contains comment testcpp.out >/dev/null 2>&1
then
```

```
 echo "It works!"
 cppfilecom="$cc -E -C"
elif echo 'Nope...maybe """$cc"' -P -C" will work...' && \
 $cc -P -C testcpp.c </dev/null >testcpp.out 2>/dev/null && \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
 $contains comment testcpp.out >/dev/null 2>&1
then
 echo "Yup, that does."
 cppfilecom="$cc -P -C"
elif echo 'No such luck, maybe """$cpp"' -C" will work...' && \
 $cpp -C testcpp.c </dev/null >testcpp.out 2>/dev/null && \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
 $contains comment testcpp.out
 >/dev/null 2>&1
then
 echo "Yup, it does."
 cppfilecom="$cpp -C"
else
 cppfilecom="
 $cat <<'EOM'
I can't find a C preprocessor that will preserve comments. Please name one.
EOM
fi
:
dflt="$cppfilecom"
cont=true
while $test "$cont" ; do
 echo " "
 rp="How should $package run your preprocessor preserving comments?"
 . ./myread
 cppfilecom="$ans"
 $cppfilecom testcpp.c >testcpp.out 2>&1
 if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
  $contains comment testcpp.out >/dev/null 2>&1
 then
  echo "OK, that will do."
  cont="
 else
  echo "Sorry, I can't get that to work."
 fi
done

@if CPP_IGN_HDRS || d_cppignhdrs
: Now see if it ignores header files.
cp testcpp.c testcpp.h
$cppfilecom testcpp.h >testcpp.out 2>&1
if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
 $contains comment testcpp.out >/dev/null 2>&1
```

```
then
 echo "Terrific; it processes .h files passed on the command line too."
 val="$undef"
else
 echo "It ignores .h files on the command line; pity."
 val="$define"
fi
set
 d_cppignhdrs
eval $setvar

@end
@if CPP_STDIN_FLAGS || CPP_CAN_STDIN || cppstdinflags || d_cppcanstdin
: Now see how to send stdin to it.
echo " "
cp testcpp.c testcpp.h
$cppfilecom <testcpp.h >testcpp.out 2>&1
if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
 $contains comment testcpp.out >/dev/null 2>&1
then
 echo "Great; and it will read stdin if passed no arguments."
 val="$define"
 cppstdinflags=''
else
 $cppfilecom - <testcpp.h >testcpp.out 2>&1
 if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
  $contains comment testcpp.out >/dev/null 2>&1
 then
  echo "Great; and it can read stdin by passing it '-'."
  val="$define"
  cppstdinflags='-'
 else
  $cat <<FOO
Unfortunately, I can't find an easy way to get that preprocessor to read from
standard input. Do you know any flags I can pass it to get it to do so?
If that preprocessor can't read directly form standard input, answer 'none'.

FOO
 val='dunno'
 while $test "$val" = "dunno"; do
  rp='Flags to get preprocessor
 to read stdin?'
  dflt='none'
  . ./myread
  if $test $ans = 'none'; then
   echo "Oh well, if $package wants it done, it will do it for itself."
   val="$undef"
  else
```

```
   $cppfilecom $ans <testcpp.h >testcpp.out 2>&1
   if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
    $contains comment testcpp.out >/dev/null 2>&1
   then
    echo "Good; that works fine."
    val="$define"
    cppstdinflags="$ans"
   else
    echo "Sorry, I couldn't get that to work."
   fi
  fi
 done
 fi
fi
set d_cppcanstdin
eval $setvar

@end
: cleanup cpp test files anyway
$rm -f testcpp.*
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/cppfilecom.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_readdir64_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_readdir64_r readdir64_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_dirent extern_C
?MAKE: -pick add $@ %<
?S:d_readdir64_r:
?S: This variable conditionally defines the HAS_READDIR64_R symbol,
?S: which indicates to the C program that the readdir64_r()
?S: routine is available.
?S:.
?S:readdir64_r_proto:
?S: This variable encodes the prototype of readdir64_r.
?S: It is zero if d_readdir64_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_readdir64_r
?S: is defined.
?S:.
```

```
?C:HAS_READDIR64_R:
?C: This symbol, if defined, indicates that the readdir64_r routine
?C: is
 available to readdir64 re-entrantly.
?C:.
?C:READDIR64_R_PROTO:
?C: This symbol encodes the prototype of readdir64_r.
?C: It is zero if d_readdir64_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_readdir64_r
?C: is defined.
?C:.
?H:#$d_readdir64_r HAS_READDIR64_R /**/
?H:#define READDIR64_R_PROTO $readdir64_r_proto /**/
?H:.
?T:try hdrs d_readdir64_r_proto
: see if readdir64_r exists
set readdir64_r d_readdir64_r
eval $inlibc
case "$d_readdir64_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_dirent dirent.h"
 case "$d_readdir64_r_proto:$usethreads" in
 ":define") d_readdir64_r_proto=define
  set d_readdir64_r_proto readdir64_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_readdir64_r_proto" in
 define)
 case "$readdir64_r_proto" in
 "|0) try='int readdir64_r(DIR*, struct dirent64*, struct dirent64**);'
 ./protochk "$extern_C $try" $hdrs && readdir64_r_proto=I_TSR ;;
 esac
 case "$readdir64_r_proto" in
 "|0) try='int readdir64_r(DIR*,
 struct dirent64*);'
 ./protochk "$extern_C $try" $hdrs && readdir64_r_proto=I_TS ;;
 esac
 case "$readdir64_r_proto" in
 "|0) d_readdir64_r=undef
  readdir64_r_proto=0
  echo "Disabling readdir64_r, cannot determine prototype." >&4 ;;
 * ) case "$readdir64_r_proto" in
  REENTRANT_PROTO*) ;;
  *) readdir64_r_proto="REENTRANT_PROTO_$readdir64_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
```

```
 ;;
 *) case "$usethreads" in
  define) echo "readdir64_r has no prototype, not using it." >&4 ;;
  esac
  d_readdir64_r=undef
  readdir64_r_proto=0
  ;;
 esac
 ;;
*) readdir64_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_readdir64_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_log1p: Inlibc
?MAKE: -pick add $@ %<
?S:d_log1p:
?S: This variable conditionally defines the HAS_LOG1P symbol, which
?S: indicates to the C program that the logp1() routine is available
?S: to compute log(1 + x) for values of x close to zero.
?S:.
?C:HAS_LOG1P:
?C: This symbol, if defined, indicates that the log1p routine is
?C: available to do the logarithm of 1 plus argument function.
?C:.
?H:#$d_log1p HAS_LOG1P  /**/
?H:.
?LINT:set d_log1p
: see if log1p exists
set log1p d_log1p
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_log1p.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Setprefixvar.U,v 3.0 2006/04/01 17:25:29 hmbrand $
?RCS:
?RCS: Copyright (c) 2006-2006, H.Merijn Brand & Nicholas Clark
?RCS:
```

```
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:   You may distribute under the terms of either the GNU General Public
?RCS:   License or the Artistic License, as specified in the README file.
?RCS:
?X:
?X: This unit sets up the scripts installprefix and setprefixvar, so code
?X: in other parts can be more simple and maintainable
?X:
?MAKE:Setprefixvar: Myread Getfile startsh eunicefix test \
 prefix prefixexp installprefix installprefixexp
?MAKE: -pick add $@ %<
?LINT:extern prefixvar
?X: metalint still sees "`\$${prefixvar}exp`" as variable :(
?T:prefixvarexp
?F:./setprefixvar
?F:./installprefix
: Perform
 the prefixexp/installprefixexp correction if necessary
cat <<EOS >installprefix
$startsh
EOS
cat <<'EOSC' >>installprefix
: Change installation prefix, if necessary.
if $test X"$prefix" != X"$installprefix"; then
   eval "install${prefixvar}=\`echo \$${prefixvar}exp | sed \"s#^\$prefixexp#\$installprefixexp#\"\`"
else
   eval "install${prefixvar}=\"\$${prefixvar}exp\""
fi
EOSC
chmod +x installprefix
$eunicefix installprefix

: Set variables such as privlib and privlibexp from the output of ./getfile
: performing the prefixexp/installprefixexp correction if necessary.
cat <<EOS >setprefixvar
$startsh
EOS
cat <<'EOSC' >>setprefixvar
eval "${prefixvar}=\"\$ans\""
eval "${prefixvar}exp=\"\$ansexp\""
. ./installprefix
EOSC
chmod +x setprefixvar
$eunicefix setprefixvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/Setprefixvar.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_memmove.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memmove.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_memmove: Inlibc
?MAKE: -pick add $@ %<
?S:d_memmove:
?S: This variable conditionally defines the HAS_MEMMOVE symbol, which
?S: indicates to the C program that the memmove() routine is available
?S: to copy potentially overlapping blocks of memory.
?S:.
?C:HAS_MEMMOVE:
?C: This symbol, if defined, indicates that the memmove routine
 is available
?C: to copy potentially overlapping blocks of memory. This should be used
?C: only when HAS_SAFE_BCOPY is not defined. If neither is there, roll your
?C: own version.
?C:.
?H:#$d_memmove HAS_MEMMOVE /**/
?H:.
?LINT:set d_memmove
: see if memmove exists
set memmove d_memmove
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_memmove.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_table.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_table.U,v $
?RCS: Revision 3.0.1.2  1993/11/10  17:34:14  ram
?RCS: patch14: wrongly mentionned an obsolete symbol
?RCS:
?RCS: Revision 3.0.1.1  1993/10/16  13:49:29  ram
?RCS: patch12: created
?RCS:
?MAKE:d_table: Inlibc
?MAKE: -pick add $@ %<
?S:d_table:
?S: This variable conditionally defines HAS_TABLE if table() is
?S: available to examine/update elements from a system table.
?S:.
?C:HAS_TABLE:
?C: This symbol, if defined, indicates that the OSF/1
 table() system
?C: call is available to examine/update items from a system table.
?C:.
?H:#$d_table HAS_TABLE /**/
?H:.
?LINT:set d_table
: see if table exists
set table d_table
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_table.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_tzname.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_tzname.U,v $
```

```
?RCS: Revision 3.0.1.2  1994/08/29  16:14:43  ram
?RCS: patch32: forgot to set proper value in the val variable
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:57:55  ram
?RCS: patch30: created
?RCS:
?MAKE:d_tzname: Csym Setvar
?MAKE: -pick add $@ %<
?S:d_tzname:
?S: This variable conditionally defines HAS_TZNAME if tzname[] is
?S: available to access timezone names.
?S:.
?C:HAS_TZNAME:
?C: This symbol, if defined, indicates that the tzname[]
 array is
?C: available to access timezone names.
?C:.
?H:#$d_tzname HAS_TZNAME  /**/
?H:.
?LINT:set d_tzname
: see if tzname[] exists
echo " "
if set tzname val -a d_tzname; eval $csym; $val; then
 val="$define"
 echo 'tzname[] found.' >&4
else
 val="$undef"
 echo 'tzname[] NOT found.' >&4
fi
set d_tzname
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_tzname.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_wifstat.U,v $
```

```
?RCS: Revision 3.0.1.3  1997/02/28  15:47:43  ram
?RCS: patch61: added a ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  14:09:10  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.1  1995/03/21  08:47:46  ram
?RCS: patch52: created
?RCS:
?MAKE:d_wifstat: d_uwait +cc +ccflags +ldflags +libs Oldconfig cat rm
?MAKE: -pick add $@ %<
?S:d_wifstat:
?S: This symbol conditionally defines USE_WIFSTAT if the C program can
?S: safely
 use the WIFxxx macros with the kind of wait() parameter
?S: declared in the program (see UNION_WAIT), or if it can't. Should
?S: only matter on HP-UX, where the macros are incorrectly written and
?S: therefore cause programs using them with an 'union wait' variable
?S: to not compile properly.
?S:.
?C:USE_WIFSTAT:
?C: This symbol, if defined, indicates to the C program that the argument
?C: for the WIFxxx set of macros such as WIFSIGNALED or WIFEXITED can
?C: be of the same kind as the one used to hold the wait() status. Should
?C: only matter on HP-UX, where the macros are incorrectly written and
?C: therefore cause programs using them with an 'union wait' variable
?C: to not compile properly. See also UNION_WAIT.
?C:.
?H:#$d_wifstat USE_WIFSTAT  /**/
?H:.
?T:type
?F:!foo
: see if we can use WIFxxx macros
echo " "
case "$d_wifstat" in
"$define") echo "As before, you can safely use WIFEXITED and friends!" >&4;;
"$undef") echo "You still can't use WIFEXITED and friends!" >&4;;
*)
 echo
 "Let's see whether you can use the WIFEXITED(status) macro and its"
 case "$d_uwait" in
 "$define") type='union wait';;
 *) type='int';;
 esac
 echo "friends with status declared as '$type status'..."
 $cat >foo.c <<EOCP
#include <sys/types.h>
#include <sys/wait.h>
```

```
int main()
{
 $type status;
 int e = 0;

#ifdef WIFEXITED
 if (WIFEXITED(status))
  printf("\n");
 exit(0);
#else
 exit(2);
#endif
}
EOCP
 d_wifstat="$undef"
 if $cc $ccflags $ldflags -o foo foo.c $libs >/dev/null 2>&1; then
  if ./foo >/dev/null; then
   echo "Great! Looks like we can use the WIFxxx macros." >&4
   d_wifstat="$define"
  else
   echo "You don't seem to have WIFxxx macros, but that's ok." >&4
  fi
 else
  echo "Apparently you can't use WIFxxx macros properly." >&4
 fi
 $rm -f foo.* foo core
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_wifstat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_syscallproto: Hasproto i_unistd
?MAKE: -pick add $@ %<
?S:d_syscallproto:
```

```
?S: This variable conditionally defines the HAS_SYSCALL_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the syscall() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_SYSCALL_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the syscall() function.  Otherwise, it is up
?C: to the program to supply one.  Good guesses are
?C:  extern
 int syscall(int,  ...);
?C:  extern int syscall(long, ...);
?C:.
?H:#$d_syscallproto HAS_SYSCALL_PROTO /**/
?H:.
?LINT:set d_syscallproto
: see if prototype for syscall is available
echo " "
set d_syscallproto syscall $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_syscallproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Config_sh.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  14:57:53  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.2  1995/01/11  14:53:31  ram
?RCS: patch45: moved path stripping from d_portable.U to end of Configure
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:50:37  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:48  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?X:
?X: This unit ends up producing the config.sh
 script, which contains all the
?X: definitions figured out by Configure.  The add.Config_sh command knows
?X: which variables need to be remembered.  It also adds the EOT (ends the
?X: here document redirection with variable substitution).
?X:
?MAKE:Config_sh: cf_time cf_by test spitshell startsh myuname Myread \
 End Obsol_sh Loc +d_portable package src cat sed
?MAKE: -pick add.Config_sh $@ %<
?MAKE: -pick add $@ ./Obsol_sh
?MAKE: -pick close.Config_sh $@ %<
?F:!config.over !config.arch
?T:file sfile xsed
?LINT:unclosed EOT
: back to where it started
if test -d ../UU; then
 cd ..
fi

: configuration may be unconditionally patched via a 'config.arch' file
if $test -f config.arch; then
 echo "I see a config.arch file, loading it." >&4
 . ./config.arch
fi

: configuration may be patched via a 'config.over' file
if $test -f config.over; then
 echo " "
 dflt=y
 rp='I see a config.over file.  Do you wish to load it?'
 . UU/myread
 case "$ans" in
 n*) echo "OK, I'll ignore it.";;
 *) . ./config.over
  echo
 "Configuration override changes have been loaded."
  ;;
 esac
fi

@if d_portable
: in case they want portability, strip down executable paths
?X:
?X: Strip down paths in located executables. For each file, e.g. vi, there
?X: is a $vi variable whose value is for instance '/usr/bin/vi'. By resetting
?X: $vi to 'vi', we rely on the PATH variable to locate the executable...
```

```
?X: In order to allow vi='/usr/bin/nvi' which will strip down to vi='nvi',
?X: we can't just say 'eval $file="\$file"', we have to recourse to sed.
?X: We don't use basename since it is less portable than sed.
?X:
case "$d_portable" in
"$define")
 echo " "
 echo "Stripping down executable paths..." >&4
 xsed=$sed
 for file in $loclist $trylist; do
  eval sfile="\$$file"
  sfile=`echo $sfile | $xsed -e 's,.*/\(.*\),\1,'`
  eval $file="$sfile"
 done
 ;;
esac

@end
: create config.sh file
echo " "
echo "Creating config.sh..." >&4
$spitshell <<EOT >config.sh
$startsh
#
# This file was produced by running the
 Configure script. It holds all the
# definitions figured out by Configure. Should you modify one of these values,
# do not forget to propagate your changes by running "Configure -der". You may
# instead choose to run each of the .SH files by yourself, or "Configure -S".
#

# Package name      : $package
# Source directory  : $src
# Configuration time: $cf_time
# Configured by     : $cf_by
# Target system     : $myuname

EOT
?X: Command line options are saved by the Options.U unit in the
?X: temporary file UU/cmdline.opt
$test -f UU/cmdline.opt && $cat UU/cmdline.opt >> config.sh
$spitshell <<EOT >>config.sh
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Config_sh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_termio.U,v $
?RCS: Revision 3.0.1.4  1994/10/29  16:20:54  ram
?RCS: patch36: call ./usg and ./Cppsym explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.3  1994/08/29  16:26:38  ram
?RCS: patch32: don't include all three I_* symbols in config.h
?RCS: patch32: (had forgotten to undo this part last time)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:25:03  ram
?RCS: patch27: undone ADO's fix in previous patch since it was useless
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:05:23
 ram
?RCS: patch23: now include all three defines in config.h (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_termio i_sgtty i_termios: test Inlibc Cppsym Guess Setvar Findhdr Warn
?MAKE: -pick add $@ %<
?S:i_termio:
?S: This variable conditionally defines the I_TERMIO symbol, which
?S: indicates to the C program that it should include <termio.h> rather
?S: than <sgtty.h>.
?S:.
?S:i_termios:
?S: This variable conditionally defines the I_TERMIOS symbol, which
?S: indicates to the C program that the POSIX <termios.h> file is
?S: to be included.
?S:.
?S:i_sgtty:
?S: This variable conditionally defines the I_SGTTY symbol, which
?S: indicates to the C program that it should include <sgtty.h> rather
?S: than <termio.h>.
?S:.
?C:I_TERMIO:
?C: This symbol, if defined, indicates that the program should include
?C: <termio.h> rather than <sgtty.h>.  There are also differences in
```

```
?C: the ioctl() calls that depend on the value of
 this symbol.
?C:.
?C:I_TERMIOS:
?C: This symbol, if defined, indicates that the program should include
?C: the POSIX termios.h rather than sgtty.h or termio.h.
?C: There are also differences in the ioctl() calls that depend on the
?C: value of this symbol.
?C:.
?C:I_SGTTY:
?C: This symbol, if defined, indicates that the program should include
?C: <sgtty.h> rather than <termio.h>.  There are also differences in
?C: the ioctl() calls that depend on the value of this symbol.
?C:.
?H:#$i_termio I_TERMIO  /**/
?H:#$i_termios I_TERMIOS  /**/
?H:#$i_sgtty I_SGTTY  /**/
?H:.
?T:val2 val3
?LINT:set i_termio i_sgtty i_termios
: see if this is a termio system
val="$undef"
val2="$undef"
val3="$undef"
?X: Prefer POSIX-approved termios.h over all else
if $test `./findhdr termios.h`; then
 set tcsetattr i_termios
 eval $inlibc
 val3="$i_termios"
fi
echo " "
case "$val3" in
"$define") echo "You have POSIX termios.h... good!" >&4;;
*) if ./Cppsym pyr; then
  case "`/bin/universe`" in
  ucb) if $test `./findhdr
 sgtty.h`; then
    val2="$define"
    echo "<sgtty.h> found." >&4
   else
    echo "System is pyramid with BSD universe."
    ./warn "<sgtty.h> not found--you could have problems."
   fi;;
  *) if $test `./findhdr termio.h`; then
    val="$define"
    echo "<termio.h> found." >&4
   else
    echo "System is pyramid with USG universe."
```

```
    ./warn "<termio.h> not found--you could have problems."
   fi;;
  esac
?X: Start with USG to avoid problems if both usg/bsd was guessed
 elif ./usg; then
  if $test `./findhdr termio.h`; then
   echo "<termio.h> found." >&4
   val="$define"
  elif $test `./findhdr sgtty.h`; then
   echo "<sgtty.h> found." >&4
   val2="$define"
  else
   ./warn "Neither <termio.h> nor <sgtty.h> found--cross fingers!"
  fi
 else
  if $test `./findhdr sgtty.h`; then
   echo "<sgtty.h> found." >&4
   val2="$define"
  elif $test `./findhdr termio.h`; then
   echo "<termio.h> found." >&4
   val="$define"
  else
   ./warn "Neither <sgtty.h> nor <termio.h> found--cross
 fingers!"
  fi
 fi;;
esac
set i_termio; eval $setvar
val=$val2; set i_sgtty; eval $setvar
val=$val3; set i_termios; eval $setvar

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
5.36.0/dist/U/i_termio.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_bzero.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_bzero.U,v $
?RCS: Revision 3.0.1.2  1993/10/16  13:48:15  ram
```

```
?RCS: patch12: added magic support for bzero()
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:01:33  ram
?RCS: patch10: now only defines HAS_BZERO, no macro remap on memset (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_bzero: Inlibc
?MAKE: -pick add $@ %<
?S:d_bzero:
?S: This variable conditionally defines the HAS_BZERO
 symbol if
?S: the bzero() routine is available to set memory to 0.
?S:.
?C:HAS_BZERO:
?C: This symbol is defined if the bzero() routine is available to
?C: set a memory block to 0.
?C:.
?H:#$d_bzero HAS_BZERO /**/
?H:.
?M:bzero: HAS_BZERO
?M:#ifndef HAS_BZERO
?M:#ifndef bzero
?M:#define bzero(s,l) memset((s),0,(l))
?M:#endif
?M:#endif
?M:.
?LINT:set d_bzero
: see if bzero exists
set bzero d_bzero
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_bzero.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Whoa.U,v 3.0.1.2 1997/02/28 15:21:21 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
```

```
?RCS: $Log: Whoa.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:21:21  ram
?RCS: patch61: whoa script now starts with leading "startsh"
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:02:01  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to warn the user in case a change into a variable
 is noticed.
?X:
?X: To use this unit, $was must hold the old value that has changed. Upon
?X: exit, the two variables $td and $tu are set to the correct value for
?X: respectively defining or undefining a variable. For instance, if $vas was
?X: $undef, but now $var is $define, after calling . whoa, you should use
?X: eval "$var=\$tu" to finally set $var to the correct value. See unit Inlibc.
?X:
?MAKE:Whoa: Myread startsh hint
?MAKE: -pick add $@ %<
?F:./whoa
?T:var was td tu hintfile
: set up the script used to warn in case of inconsistency
cat <<EOS >whoa
$startsh
EOS
cat <<'EOSC' >>whoa
dflt=y
case "$hint" in
   recommended)
 case "$hintfile" in
 ") echo "The $hint value for \$$var on this machine was \"$was\"!" >&4
  ;;
 *) echo "Hmm.  Based on the hints in hints/$hintfile.sh, " >&4
  echo "the $hint value for \$$var on this machine was \"$was\"!" >&4
  ;;
 esac
 ;;
   *) echo " "
 echo "*** WHOA THERE!!! ***" >&4
 echo "    The $hint value for \$$var on this machine was
 \"$was\"!" >&4
 ;;
esac
rp="    Keep the $hint value?"
```

```
. ./myread
case "$ans" in
y) td=$was; tu=$was;;
esac
EOSC
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Whoa.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?X:
?X: This unit allows the duplication of the source tree to the current
?X: directory via symbolic links.  This must be requested explicitly
?X: by them issuing a -Dmksymlinks on the command line.
?X:
?MAKE:Mksymlinks: Mkdirp lns issymlink src rsrc pkgsrc
?MAKE: -pick add $@ %<
?F:!UU
?T: dir filename tmppwd filelist
?LINT:extern mksymlinks
@if {test -f ../MANIFEST}
: Duplicate the tree with symbolic links if -Dmksymlinks was supplied
case "$mksymlinks"
 in
$define|true|[yY]*)
 echo " "
 case "$src" in
 "|'.') echo "Cannot create symlinks in the original directory." >&4
  exit 1
  ;;
 *) case "$lns:$issymlink" in
  *"ln"*" -s:"*"test -"?)
   echo "Creating the symbolic links..." >&4
   echo "(First creating the subdirectories...)" >&4
   cd ..
```

```
  awk '{print $1}' $src/MANIFEST | grep / | sed 's:/[^/]*$::' | \
   sort -u | while true
  do
   read dir
   test -z "$dir" && break
   ./UU/mkdirp $dir 2>/dev/null
   if test -d $dir; then
    : ok
   else
    echo "Failed to create '$dir'.  Aborting." >&4
    exit 1
   fi
  done
  echo "(Now creating the symlinks...)" >&4
  awk '{print $1}' $src/MANIFEST | while true; do
   read filename
   test -z "$filename" && break
   if test -f $filename; then
    if $issymlink $filename; then
     rm -f $filename
    fi
   fi
   if test -f $filename; then
    echo "$filename already exists, not symlinking."
   else
?X: Note that the following works because "$pkgsrc" is absolute
    ln
 -s $pkgsrc/$filename $filename
   fi
  done
?X: Check that everything was correctly copied
  echo "(Checking current directory...)" >&4
  cd UU
  awk '$1 !~ /PACK[A-Z]+/ {print $1}' "$rsrc/MANIFEST" | \
   (split -l 50 2>/dev/null || split -50)
  rm -f missing
  tmppwd=`pwd`
  for filelist in x??; do
   (cd ..; ls `cat "$tmppwd/$filelist"` \
    >/dev/null 2>>"$tmppwd/missing")
  done
  if test -s missing; then
   echo "Failed duplication of source tree.  Aborting." >&4
   exit 1
  fi
  ;;
 *) echo "(I cannot figure out how to do symbolic links, ignoring!)" >&4
  ;;
```

```
  esac
  ;;
 esac
 ;;
esac

@end
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Mksymlinks.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999-2016 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_PRIfldbl sPRIfldbl d_PRIgldbl d_PRIFUldbl sPRIGUldbl d_PRIEUldbl \
 sPRIgldbl d_PRIeldbl sPRIeldbl sPRIFUldbl d_PRIGUldbl sPRIEUldbl \
 d_SCNfldbl  d_double_style_vax d_double_style_ieee \
 d_double_style_ibm d_double_style_cray d_double_has_subnormals \
 d_double_has_inf d_double_has_nan d_double_has_negative_zero \
 sSCNfldbl doublekind: \
 d_longdbl longdblsize doublesize uselongdouble test echo cat rm_try \
 Setvar Compile run i_stdlib osname gccversion ccflags
?MAKE: -pick add $@ %<
?S:doublekind:
?S: This variable, if defined, encodes the type of a double:
?S:  1 = IEEE 754 32-bit little endian,
?S:  2 = IEEE 754 32-bit big endian,
?S:  3 = IEEE 754 64-bit little endian,
?S:  4 = IEEE
 754 64-bit big endian,
?S:  5 = IEEE 754 128-bit little endian,
?S:  6 = IEEE 754 128-bit big endian,
?S:  7 = IEEE 754 64-bit mixed endian le-be,
?S:  8 = IEEE 754 64-bit mixed endian be-le,
?S:  9 = VAX 32bit little endian F float format
?S: 10 = VAX 64bit little endian D float format
?S: 11 = VAX 64bit little endian G float format
?S: 12 = IBM 32bit format
?S: 13 = IBM 64bit format
?S: 14 = Cray 64bit format
?S: -1 = unknown format.
?S:.
```

```
?S:d_PRIfldbl:
?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates that stdio has a symbol to print long doubles.
?S:.
?S:d_PRIgldbl:
?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates that stdio has a symbol to print long doubles.
?S:.
?S:d_PRIeldbl:
?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates that stdio has a symbol to print long doubles.
?S:.
?S:d_PRIFUldbl:
?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates
 that stdio has a symbol to print long doubles.
?S: The 'U' in the name is to separate this from d_PRIfldbl so that even
?S: case-blind systems can see the difference.
?S:.
?S:d_PRIGUldbl:
?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates that stdio has a symbol to print long doubles.
?S: The 'U' in the name is to separate this from d_PRIgldbl so that even
?S: case-blind systems can see the difference.
?S:.
?S:d_PRIEUldbl:
?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates that stdio has a symbol to print long doubles.
?S: The 'U' in the name is to separate this from d_PRIeldbl so that even
?S: case-blind systems can see the difference.
?S:.
?S:d_SCNfldbl:
?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates that stdio has a symbol to scan long doubles.
?S:.
?S:sPRIfldbl:
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'f') for
 output.
?S:.
?S:sPRIgldbl:
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'g') for output.
?S:.
?S:sPRIeldbl:
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'e') for output.
?S:.
```

```
?S:sPRIFUldbl:
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'F') for output.
?S: The 'U' in the name is to separate this from sPRIfldbl so that even
?S: case-blind systems can see the difference.
?S:.
?S:sPRIGUldbl:
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'G') for output.
?S: The 'U' in the name is to separate this from sPRIgldbl so that even
?S: case-blind systems can see the difference.
?S:.
?S:sPRIEUldbl:
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'E') for output.
?S: The 'U' in the name is to separate this from sPRIeldbl so that even
?S: case-blind
 systems can see the difference.
?S:.
?S:sSCNfldbl:
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'f') for input.
?S:.
?S:d_double_has_inf:
?S: This variable conditionally defines the symbol DOUBLE_HAS_INF
?S: which indicates that the double type has an infinity.
?S:.
?S:d_double_has_nan:
?S: This variable conditionally defines the symbol DOUBLE_HAS_NAN
?S: which indicates that the double type has a not-a-number.
?S:.
?S:d_double_has_negative_zero:
?S: This variable conditionally defines the symbol DOUBLE_HAS_NEGATIVE_ZERO
?S: which indicates that the double type has a negative zero.
?S:.
?S:d_double_has_subnormals:
?S: This variable conditionally defines the symbol DOUBLE_HAS_SUBNORMALS
?S: which indicates that the double type has subnormals (denormals).
?S:.
?S:d_double_style_cray:
?S: This variable conditionally defines the symbol DOUBLE_STYLE_CRAY
?S: which indicates that the double is the 64-bit CRAY mainframe
 format.
?S:.
?S:d_double_style_ibm:
?S: This variable conditionally defines the symbol DOUBLE_STYLE_IBM,
?S: which indicates that the double is the 64-bit IBM mainframe format.
?S:.
```

```
?S:d_double_style_ieee:
?S: This variable conditionally defines the symbol DOUBLE_STYLE_IEEE,
?S: which indicates that the double is the 64-bit IEEE 754.
?S:.
?S:d_double_style_vax:
?S: This variable conditionally defines the symbol DOUBLE_STYLE_VAX,
?S: which indicates that the double is the 64-bit VAX format D or G.
?S:.
?C:PERL_PRIfldbl:
?C: This symbol, if defined, contains the string used by stdio to
?C: format long doubles (format 'f') for output.
?C:.
?C:PERL_PRIgldbl:
?C: This symbol, if defined, contains the string used by stdio to
?C: format long doubles (format 'g') for output.
?C:.
?C:PERL_PRIeldbl:
?C: This symbol, if defined, contains the string used by stdio to
?C: format long doubles (format 'e') for output.
?C:.
?C:PERL_PRIFldbl:
?C: This symbol, if defined, contains the string used by stdio
 to
?C: format long doubles (format 'f') for output.
?C:.
?C:PERL_PRIGldbl:
?C: This symbol, if defined, contains the string used by stdio to
?C: format long doubles (format 'g') for output.
?C:.
?C:PERL_PRIEldbl:
?C: This symbol, if defined, contains the string used by stdio to
?C: format long doubles (format 'e') for output.
?C:.
?C:PERL_SCNfldbl:
?C: This symbol, if defined, contains the string used by stdio to
?C: format long doubles (format 'f') for input.
?C:.
?C:DOUBLEKIND:
?C: DOUBLEKIND will be one of
?C: DOUBLE_IS_IEEE_754_32_BIT_LITTLE_ENDIAN
?C: DOUBLE_IS_IEEE_754_32_BIT_BIG_ENDIAN
?C: DOUBLE_IS_IEEE_754_64_BIT_LITTLE_ENDIAN
?C: DOUBLE_IS_IEEE_754_64_BIT_BIG_ENDIAN
?C: DOUBLE_IS_IEEE_754_128_BIT_LITTLE_ENDIAN
?C: DOUBLE_IS_IEEE_754_128_BIT_BIG_ENDIAN
?C: DOUBLE_IS_IEEE_754_64_BIT_MIXED_ENDIAN_LE_BE
?C: DOUBLE_IS_IEEE_754_64_BIT_MIXED_ENDIAN_BE_LE
?C: DOUBLE_IS_VAX_F_FLOAT
```

```
?C: DOUBLE_IS_VAX_D_FLOAT
?C: DOUBLE_IS_VAX_G_FLOAT
?C: DOUBLE_IS_IBM_SINGLE_32_BIT
?C: DOUBLE_IS_IBM_DOUBLE_64_BIT
?C: DOUBLE_IS_CRAY_SINGLE_64_BIT
?C: DOUBLE_IS_UNKNOWN_FORMAT
?C:.
?C:DOUBLE_HAS_INF:
?C: This
 symbol, if defined, indicates that the double has
?C: the infinity.
?C:.
?C:DOUBLE_HAS_NAN:
?C: This symbol, if defined, indicates that the double has
?C: the not-a-number.
?C:.
?C:DOUBLE_HAS_NEGATIVE_ZERO:
?C: This symbol, if defined, indicates that the double has
?C: the negative_zero.
?C:.
?C:DOUBLE_HAS_SUBNORMALS:
?C: This symbol, if defined, indicates that the double has
?C: the subnormals (denormals).
?C:.
?C:DOUBLE_STYLE_CRAY:
?C: This symbol, if defined, indicates that the double is
?C: the 64-bit CRAY mainframe format.
?C:.
?C:DOUBLE_STYLE_IBM:
?C: This symbol, if defined, indicates that the double is
?C: the 64-bit IBM mainframe format.
?C:.
?C:DOUBLE_STYLE_IEEE:
?C: This symbol, if defined, indicates that the double is
?C: the 64-bit IEEE 754.
?C:.
?C:DOUBLE_STYLE_VAX:
?C: This symbol, if defined, indicates that the double is
?C: the 64-bit VAX format D or G.
?C:.
?LINT:known
 DOUBLE_IS_IEEE_754_32_BIT_LITTLE_ENDIAN
?LINT:known DOUBLE_IS_IEEE_754_32_BIT_BIG_ENDIAN
?LINT:known DOUBLE_IS_IEEE_754_64_BIT_LITTLE_ENDIAN
?LINT:known DOUBLE_IS_IEEE_754_64_BIT_BIG_ENDIAN
?LINT:known DOUBLE_IS_IEEE_754_128_BIT_LITTLE_ENDIAN
?LINT:known DOUBLE_IS_IEEE_754_128_BIT_BIG_ENDIAN
?LINT:known DOUBLE_IS_IEEE_754_64_BIT_MIXED_ENDIAN_LE_BE
```

```
?LINT:known DOUBLE_IS_IEEE_754_64_BIT_MIXED_ENDIAN_BE_LE
?LINT:known DOUBLE_IS_VAX_F_FLOAT
?LINT:known DOUBLE_IS_VAX_D_FLOAT
?LINT:known DOUBLE_IS_VAX_G_FLOAT
?LINT:known DOUBLE_IS_IBM_SINGLE_32_BIT
?LINT:known DOUBLE_IS_IBM_DOUBLE_64_BIT
?LINT:known DOUBLE_IS_CRAY_SINGLE_64_BIT
?LINT:known DOUBLE_IS_UNKNOWN_FORMAT
?H:#define DOUBLEKIND $doublekind  /**/
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_32_BIT_LITTLE_ENDIAN 1
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_32_BIT_BIG_ENDIAN 2
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_64_BIT_LITTLE_ENDIAN 3
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_64_BIT_BIG_ENDIAN 4
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_128_BIT_LITTLE_ENDIAN 5
?H:?DOUBLEKIND:#define
 DOUBLE_IS_IEEE_754_128_BIT_BIG_ENDIAN 6
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_64_BIT_MIXED_ENDIAN_LE_BE 7
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_64_BIT_MIXED_ENDIAN_BE_LE 8
?H:?DOUBLEKIND:#define DOUBLE_IS_VAX_F_FLOAT 9
?H:?DOUBLEKIND:#define DOUBLE_IS_VAX_D_FLOAT 10
?H:?DOUBLEKIND:#define DOUBLE_IS_VAX_G_FLOAT 11
?H:?DOUBLEKIND:#define DOUBLE_IS_IBM_SINGLE_32_BIT 12
?H:?DOUBLEKIND:#define DOUBLE_IS_IBM_DOUBLE_64_BIT 13
?H:?DOUBLEKIND:#define DOUBLE_IS_CRAY_SINGLE_64_BIT 14
?H:?DOUBLEKIND:#define DOUBLE_IS_UNKNOWN_FORMAT  -1
?H:#$d_PRIfldbl PERL_PRIfldbl $sPRIfldbl /**/
?H:#$d_PRIgldbl PERL_PRIgldbl $sPRIgldbl /**/
?H:#$d_PRIeldbl PERL_PRIeldbl $sPRIeldbl /**/
?H:#$d_PRIFUldbl PERL_PRIFldbl $sPRIFUldbl /**/
?H:#$d_PRIGUldbl PERL_PRIGldbl $sPRIGUldbl /**/
?H:#$d_PRIEUldbl PERL_PRIEldbl $sPRIEUldbl /**/
?H:#$d_SCNfldbl PERL_SCNfldbl $sSCNfldbl /**/
?H:#$d_double_has_inf DOUBLE_HAS_INF
?H:#$d_double_has_nan DOUBLE_HAS_NAN
?H:#$d_double_has_negative_zero
 DOUBLE_HAS_NEGATIVE_ZERO
?H:#$d_double_has_subnormals DOUBLE_HAS_SUBNORMALS
?H:#$d_double_style_cray DOUBLE_STYLE_CRAY
?H:#$d_double_style_ibm DOUBLE_STYLE_IBM
?H:#$d_double_style_ieee DOUBLE_STYLE_IEEE
?H:#$d_double_style_vax DOUBLE_STYLE_VAX
?H:.
?T:yyy message saveccflags
?F:!try
?LINT:change ccflags
?LINT:change uselongdouble
: Check what kind of doubles your system has
$echo "Checking the kind of doubles you have..." >&4
```

```
$cat >try.c <<EOP
#$i_stdlib I_STDLIB
#define DOUBLESIZE $doublesize
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <stdio.h>
static const double d = -0.1;
int main() {
 unsigned const char* b = (unsigned const char*)(&d);
#if DOUBLESIZE == 4
 if (b[0] == 0xCD && b[3] == 0xBD) {
   /* IEEE 754 32-bit little-endian */
   printf("1\n");
   exit(0);
 }
 if (b[0] == 0xBD && b[3] == 0xCD) {
   /* IEEE 754 32-bit big-endian */
   printf("2\n");
   exit(0);
 }
 if (b[0] == 0xCC && b[3] == 0xCC) {
   /* VAX format F, 32-bit
 PDP-style mixed endian. */
   printf("9\n");
   exit(0);
 }
 if (b[0] == 0xC0 && b[3] == 0x9A) {
   /* IBM single 32-bit */
   printf("12\n");
   exit(0);
 }
#endif
#if DOUBLESIZE == 8
 if (b[0] == 0x9A && b[7] == 0xBF) {
   /* IEEE 754 64-bit little-endian */
   printf("3\n");
   exit(0);
 }
 if (b[0] == 0xBF && b[7] == 0x9A) {
   /* IEEE 754 64-bit big-endian */
   printf("4\n");
   exit(0);
 }
 if (b[0] == 0x99 && b[3] == 0xBF && b[4] == 0x9A && b[7] == 0x99) {
  /* ARM mixed endian: two little-endian 32-bit floats, in big endian order:
   * 4 5 6 7 0 1 2 3 (MSB = 7, LSB = 0)
   * 99 99 b9 bf 9a 99 99 99 */
```

```
  printf("7\n");
  exit(0);
 }
 if (b[0] == 0x99 && b[3] == 0x9A && b[4] == 0xBF && b[7] == 0x99) {
  /* The opposite of case 7, mixed endian: two big-endian 32-bit floats,
   * in little endian order: 3 2 1 0 7 6 5 4 (MSB = 7, LSB = 0)
   * 99 99 99 9a bf b9 99 99 */
  printf("8\n");
  exit(0);
 }
 if (b[0] == 0xCC && b[7] == 0xCC) {
  /* VAX
 format D, 64-bit PDP-style mixed endian. */
  printf("10\n");
  exit(0);
 }
 if (b[0] == 0xD9 && b[7] == 0x99) {
  /* VAX format G, 64-bit PDP-style mixed endian. */
  printf("11\n");
  exit(0);
 }
 if (b[0] == 0xC0 && b[7] == 0x9A) {
  /* IBM double 64-bit */
  printf("13\n");
  exit(0);
 }
 if (b[0] == 0xBF && b[7] == 0xCD) {
  /* CRAY single 64-bit */
  printf("14\n");
  exit(0);
 }
#endif
#if DOUBLESIZE == 16
 if (b[0] == 0x9A && b[15] == 0xBF) {
  /* IEEE 754 128-bit little-endian */
  printf("5\n");
  exit(0);
 }
 if (b[0] == 0xBF && b[15] == 0x9A) {
  /* IEEE 754 128-bit big-endian */
  printf("6\n");
  exit(0);
 }
#endif
 /* Then there are old mainframe/miniframe formats like IBM and CRAY.
  * Whether those environments can still build Perl is debatable. */
 printf("-1\n"); /* unknown */
 exit(0);
```

```
}
EOP
set try
if eval $compile; then
   doublekind=`$run ./try`
else
   doublekind=-1
fi
case "$doublekind" in
1) echo "You have IEEE
 754 32-bit little endian doubles." >&4 ;;
2) echo "You have IEEE 754 32-bit big endian doubles." >&4 ;;
3) echo "You have IEEE 754 64-bit little endian doubles." >&4 ;;
4) echo "You have IEEE 754 64-bit big endian doubles." >&4 ;;
5) echo "You have IEEE 754 128-bit little endian doubles." >&4 ;;
6) echo "You have IEEE 754 128-bit big endian doubles." >&4 ;;
7) echo "You have IEEE 754 64-bit mixed endian doubles (32-bit LEs in BE)." >&4 ;;
8) echo "You have IEEE 754 64-bit mixed endian doubles (32-bit BEs in LE)." >&4 ;;
9) echo "You have VAX format F 32-bit PDP-style mixed endian doubles." >&4 ;;
10) echo "You have VAX format D 64-bit PDP-style mixed endian doubles." >&4 ;;
11) echo "You have VAX format G 64-bit PDP-style mixed endian doubles." >&4 ;;
12) echo "You have IBM short 32-bit doubles." >&4 ;;
13) echo "You have IBM long 64-bit doubles." >&4 ;;
14) echo "You have Cray single 64-bit doubles." >&4 ;;
*) echo "Cannot figure out your double.  You Cyber, or something?" >&4 ;;
esac
d_double_style_ieee=$undef
d_double_style_vax=$undef
d_double_style_ibm=$undef
d_double_style_cray=$undef
case
 "$doublekind" in
1|2|3|4|5|6|7|8) d_double_style_ieee=$define ;;
9|10|11) d_double_style_vax=$define ;;
12|13) d_double_style_ibm=$define ;;
14) d_double_style_cray=$define ;;
esac
case "$d_double_style_ieee" in
$define)
   d_double_has_inf=$define
   d_double_has_nan=$define
   d_double_has_negative_zero=$define
   d_double_has_subnormals=$define
   ;;
*)
   d_double_has_inf=$undef
   d_double_has_nan=$undef
   d_double_has_negative_zero=$undef
```

```
   d_double_has_subnormals=$undef
   ;;
esac
$rm_try

: Check print/scan long double stuff
echo " "

if $test X"$d_longdbl" = X"$define"; then

echo "Checking how to print long doubles..." >&4

if $test X"$sPRIfldbl" = X -a X"$doublesize" = X"$longdblsize"; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
 double d = 123.456;
 printf("%.3f\n", d);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run
 ./try`
  case "$yyy" in
  123.456)
   sPRIfldbl="'f'"; sPRIgldbl="'g'"; sPRIeldbl="'e'";
   sPRIFUldbl="'F'"; sPRIGUldbl="'G'"; sPRIEUldbl="'E'";
   echo "We will use %f."
   ;;
  esac
 fi
fi

if $test X"$sPRIfldbl" = X; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
 long double d = 123.456;
 printf("%.3Lf\n", d);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
```

```
  123.456)
   sPRIfldbl="'Lf'"; sPRIgldbl="'Lg'"; sPRIeldbl="'Le'";
   sPRIFUldbl="'LF'"; sPRIGUldbl="'LG'"; sPRIEUldbl="'LE'";
   echo "We will use %Lf."
   ;;
  esac
 fi
fi

if $test X"$sPRIfldbl" = X; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
 long double d = 123.456;
 printf("%.3llf\n", d);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  123.456)
   sPRIfldbl="'llf'"; sPRIgldbl="'llg'"; sPRIeldbl="'lle'";
   sPRIFUldbl="'llF'"; sPRIGUldbl="'llG'"; sPRIEUldbl="'llE'";
   echo "We
 will use %llf."
   ;;
  esac
 fi
fi

if $test X"$sPRIfldbl" = X; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
 long double d = 123.456;
 printf("%.3lf\n", d);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  123.456)
   sPRIfldbl="'lf'"; sPRIgldbl="'lg'"; sPRIeldbl="'le'";
   sPRIFUldbl="'lF'"; sPRIGUldbl="'lG'"; sPRIEUldbl="'lE'";
```

```
   echo "We will use %lf."
   ;;
  esac
 fi
fi

if $test X"$sPRIfldbl" = X; then
 echo "Cannot figure out how to print long doubles." >&4
else
 sSCNfldbl=$sPRIfldbl # expect consistency
fi

$rm_try

fi # d_longdbl

case "$sPRIfldbl" in
") d_PRIfldbl="$undef"; d_PRIgldbl="$undef"; d_PRIeldbl="$undef";
 d_PRIFUldbl="$undef"; d_PRIGUldbl="$undef"; d_PRIEUldbl="$undef";
 d_SCNfldbl="$undef";
 ;;
*) d_PRIfldbl="$define"; d_PRIgldbl="$define"; d_PRIeldbl="$define";
 d_PRIFUldbl="$define"; d_PRIGUldbl="$define"; d_PRIEUldbl="$define";
 d_SCNfldbl="$define";
 ;;
esac

: Before committing on uselongdouble,
 see whether that looks sane.
if $test "$uselongdouble" = "$define"; then
   message=""
   echo " "
   echo "Checking if your long double math functions work right..." >&4
   $cat > try.c <<EOF
#include <math.h>
#include <stdio.h>
int main() {
 printf("%"$sPRIgldbl"\n", sqrtl(logl(expl(cosl(sinl(0.0L))))+powl(2.0L, 3.0L)));
}
EOF
   case "$osname:$gccversion" in
   aix:) saveccflags="$ccflags"
  ccflags="$ccflags -qlongdouble" ;; # to avoid core dump
   esac
   set try
   if eval $compile_ok; then
     yyy=`$run ./try`
   fi
```

```
  case "$yyy" in
  3) echo "Your long double math functions are working correctly." >&4 ;;
  *) echo "Your long double math functions are broken, not using long doubles." >&4
    uselongdouble=$undef
    ;;
  esac
  $rm_try
  case "$osname:$gccversion" in
  aix:) ccflags="$saveccflags" ;; # restore
  esac
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/longdblfio.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_time.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit finds which "time" include to use. If 'timezone' is used by the
?X: program, we also try to find which header should be included. Eventually,
?X: we look for <sys/select.h> if I_SYSSELECT is used, to get struct timeval.
?X:
?MAKE:i_time i_systime i_systimek timeincl: cat cc ccflags contains rm_try \
 echo n c +i_sysselct Findhdr
?MAKE: -pick add $@ %<
?S:i_time:
?S: This
 variable conditionally defines I_TIME, which indicates
?S: to the C program that it should include <time.h>.
?S:.
?S:i_systime:
?S: This variable conditionally defines I_SYS_TIME, which indicates
?S: to the C program that it should include <sys/time.h>.
?S:.
```

```
?S:i_systimek:
?S: This variable conditionally defines I_SYS_TIME_KERNEL, which
?S: indicates to the C program that it should include <sys/time.h>
?S: with KERNEL defined.
?S:.
?S:timeincl:
?S: This variable holds the full path of the included time header(s).
?S:.
?C:I_TIME (USE_TIME_H):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <time.h>.
?C:.
?C:I_SYS_TIME (I_SYSTIME USE_SYS_TIME_H NO_TIME_WITH_SYS_TIME):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/time.h>.
?C:.
?C:I_SYS_TIME_KERNEL (I_SYSTIMEKERNEL):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/time.h> with KERNEL defined.
?C:.
?H:#$i_time I_TIME  /**/
?H:#$i_systime
 I_SYS_TIME  /**/
?H:#$i_systimek I_SYS_TIME_KERNEL  /**/
?H:.
?W::timezone
?T:xselect flags sysselect s_timeval s_timezone
?LINT:change i_sysselct
: see if we should include time.h, sys/time.h, or both
echo " "
echo "Testing to see if we should include <time.h>, <sys/time.h> or both." >&4
$echo $n "I'm now running the test program...$c"
$cat >try.c <<'EOCP'
#include <sys/types.h>
#ifdef I_TIME
#include <time.h>
#endif
#ifdef I_SYSTIME
#ifdef SYSTIMEKERNEL
#define KERNEL
#endif
#include <sys/time.h>
#endif
#ifdef I_SYSSELECT
#include <sys/select.h>
#endif
int main()
{
```

```
 struct tm foo;
#ifdef S_TIMEVAL
 struct timeval bar;
#endif
#ifdef S_TIMEZONE
 struct timezone tzp;
#endif
 if (foo.tm_sec == foo.tm_sec)
  exit(0);
#ifdef S_TIMEVAL
 if (bar.tv_sec == bar.tv_sec)
  exit(0);
#endif
 exit(1);
}
EOCP
flags=''
@if I_SYSSELECT
if $contains 'timeval.*{' `./findhdr sys/select.h` >/dev/null 2>&1; then
 xselect='-DI_SYSSELECT'
else
 xselect=''
fi
@end
@if timezone
for s_timezone
 in '-DS_TIMEZONE' ''; do
@else
s_timezone=''
@end
?X: Every package is given a try with 'struct timeval'
@if I_SYSSELECT
for sysselect in $xselect ''; do
@else
sysselect=''
@end
for s_timeval in '-DS_TIMEVAL' ''; do
for i_systimek in '' '-DSYSTIMEKERNEL'; do
for i_time in '' '-DI_TIME'; do
for i_systime in '-DI_SYSTIME' ''; do
 case "$flags" in
 '') $echo $n ".$c"
  if $cc $ccflags \
  $i_time $i_systime $i_systimek $sysselect $s_timeval $s_timezone \
  -o try try.c >/dev/null 2>&1 ; then
   set X $i_time $i_systime $i_systimek $sysselect $s_timeval
   shift
   flags="$*"
```

```
   echo " "
   $echo $n "Succeeded with $flags$c"
  fi
  ;;
 esac
done
done
done
done
@if I_SYSSELECT
done
@end
@if timezone
done
@end
timeincl="
echo " "
case "$flags" in
*SYSTIMEKERNEL*) i_systimek="$define"
 timeincl=`./findhdr sys/time.h`
 echo "We'll include <sys/time.h> with KERNEL defined." >&4;;
*) i_systimek="$undef";;
esac
case "$flags" in
*I_TIME*) i_time="$define"
 timeincl=`./findhdr time.h`" $timeincl"
 echo
 "We'll include <time.h>." >&4;;
*) i_time="$undef";;
esac
case "$flags" in
*I_SYSTIME*) i_systime="$define"
 timeincl=`./findhdr sys/time.h`" $timeincl"
 echo "We'll include <sys/time.h>." >&4;;
*) i_systime="$undef";;
esac
@if I_SYSSELECT
case "$flags" in
*I_SYSSELECT*) i_sysselct="$define"
 timeincl=`./findhdr sys/select.h`" $timeincl"
 echo "We'll also include <sys/select.h> to get struct timeval." >&4;;
*) case "$i_sysselct" in
 ") i_sysselct="$undef";;
 esac
esac
@end
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_time.U
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_usleepproto: Hasproto i_unistd
?MAKE: -pick add $@ %<
?S:d_usleepproto:
?S: This variable conditionally defines the HAS_USLEEP_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the usleep() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_USLEEP_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the usleep() function.  Otherwise, it is up
?C: to the program to supply one.  A good guess is
?C:  extern int
 usleep(useconds_t);
?C:.
?H:#$d_usleepproto HAS_USLEEP_PROTO /**/
?H:.
?LINT:set d_usleepproto
: see if prototype for usleep is available
echo " "
set d_usleepproto usleep $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_usleepproto.U
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?RCS:
?MAKE:uidsign: Myread Typedef uidtype Compile run
?MAKE: -pick add $@ %<
?S:uidsign:
?S: This variable contains the signedness of a uidtype.
?S: 1 for unsigned, -1 for signed.
?S:.
?C:Uid_t_sign:
?C: This symbol holds the signedness of a Uid_t.
?C: 1 for unsigned, -1 for signed.
?C:.
?H:#define Uid_t_sign $uidsign  /* UID sign */
?H:.
?T:yyy zzz
?F:!try
: Check if UID is signed
echo " "
case "$uidtype" in
*_t) zzz="$uidtype" ;;
*)   zzz="uid"  ;;
esac
echo "Checking the sign of $zzz..." >&4
cat > try.c <<EOCP
#include <sys/types.h>
#include
 <stdio.h>
int main() {
 $uidtype foo = -1;
 if (foo < 0)
  printf("-1\n");
 else
  printf("1\n");
}
EOCP
set try
if eval $compile; then
 yyy=`$run ./try`
 case "$yyy" in
 ") uidsign=1
  echo "(I can't execute the test program--guessing unsigned.)" >&4
  ;;
 *) uidsign=$yyy
  case "$uidsign" in
   1) echo "Your $zzz is unsigned." ;;
  -1) echo "Your $zzz is signed."   ;;
```

```
  esac
  ;;
 esac
else
 uidsign=1
 echo "(I can't compile the test program--guessing unsigned.)" >&4
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/uidsign.U
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_netinettcp: Inhdr
?MAKE: -pick add $@ %<
?S:i_netinettcp:
?S: This variable conditionally defines the I_NETINET_TCP symbol,
?S: and indicates whether a C program should include <netinet/tcp.h>.
?S:.
?C:I_NETINET_TCP:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <netinet/tcp.h>.
?C:.
?H:#$i_netinettcp   I_NETINET_TCP                /**/
?H:.
?LINT:set i_netinettcp
: see if netinet/tcp.h is available
set netinet/tcp.h i_netinettcp
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_netinettcp.U
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```
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?RCS:
```

```
?MAKE:d_ilogb: Inlibc
?MAKE: -pick add $@ %<
?S:d_ilogb:
?S: This variable conditionally defines the HAS_ILOGB symbol, which
?S: indicates to the C program that the ilogb() routine is available
?S: for extracting the exponent of double x as a signed integer.
?S:.
?C:HAS_ILOGB:
?C: This symbol, if defined, indicates that the ilogb routine is
?C: available to get integer exponent of a floating-point value.
?C:.
?H:#$d_ilogb HAS_ILOGB  /**/
?H:.
?LINT:set d_ilogb
: see if ilogb exists
set ilogb d_ilogb
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_ilogb.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_memmem: Hasproto Inlibc Setvar d_gnulibc
?MAKE: -pick add $@ %<
?S:d_memmem:
?S: This variable conditionally defines the HAS_MEMMEM symbol, which
?S: indicates to the C program that the memmem() routine is available
?S: to return a pointer to the start of the first occurrence of a
?S: substring in a memory area (or NULL if not found).
?S:.
?C:HAS_MEMMEM:
?C: This symbol, if defined, indicates that the memmem routine is
?C: available to return a pointer to the start of the first occurrence
?C: of a substring in a memory area (or NULL if not found).
?C: In glibc, memmem is a GNU extension.  The function is visible in
?C: libc, but the prototype is only visible if _GNU_SOURCE is #defined.
?C: Thus we only define this if both the prototype and symbol are found.
?C:.
?H:#$d_memmem
 HAS_MEMMEM  /**/
?H:.
?T:d_memmem_proto xx1 xx2 xx3 xx4
?LINT:set d_memmem
: see if memmem exists
```

```
: We need both a prototype in string.h and the symbol in libc.
echo " "
d_memmem_proto="
xx1="#$d_gnulibc HAS_GNULIBC"
xx2='#if defined(HAS_GNULIBC) && !defined(_GNU_SOURCE)'
xx3='#   define _GNU_SOURCE'
xx4='#endif'
set d_memmem_proto memmem literal "$xx1" literal "$xx2" literal "$xx3" literal "$xx4" define string.h
eval $hasproto
case "$d_memmem_proto" in
   define) # see if memmem exists
 set memmem d_memmem
 eval $inlibc
 ;;
   *)  val=$undef
 set d_memmem
 eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_memmem.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sfio.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:48:27  ram
?RCS: patch61: created
?RCS:
?MAKE:i_sfio: Inhdr Setvar
?MAKE: -pick add $@ %<
?S:i_sfio:
?S: This variable conditionally defines the I_SFIO symbol,
?S: and indicates whether a C program should include <sfio.h>.
?S:.
?C:I_SFIO:
?C: This symbol, if defined, indicates to the C program that it should
```

```
?C: include <sfio.h>.
?C:.
?H:#$i_sfio I_SFIO  /**/
?H:.
?LINT:set
 i_sfio
: see if sfio.h is available
set sfio.h i_sfio
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sfio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: warnflags.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Orginal Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: warnflags.U,v $
?RCS: Revision 3.0  1993/08/18  12:10:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:warnflags: cat cc contains Myread Guess Oldconfig Findhdr
?MAKE: -pick add $@ %<
?S:warnflags:
?S: This variable contains any additional C compiler flags to generate
?S: warnings from the compiler. It is up to the Makefile to use this.
?S:.
: offer additional
 warning flags for compilation
$cat <<EOH

You may wish to compile with extra compiler warnings enabled.
Note that doing so enhances your chance of receiving your free set of steak
knives, particularly if you find any bugs and report them.
If you don't want extra warnings, answer "none".

EOH
case "$warnflags" in
```

```
") case "$cc" in
 *gcc*)
  dflt="-Wall -Wno-comment"
  if $contains 'fprintf' `./findhdr stdio.h` >/dev/null 2>&1; then
   :
  else
   dflt="$dflt -Wno-implicit"
  fi
  ;;
 *) dflt="none";;
 esac
 ;;
' ') dflt="none";;
*) dflt="$warnflags";;
esac

rp="Any $cc flags to enable warnings?"
. ./myread
case "$ans" in
none) warnflags=' ';;
*) warnflags="$ans";;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/warnflags.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_bcmp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_bcmp.U,v $
?RCS: Revision 3.0.1.2  1993/10/16  13:47:52  ram
?RCS: patch12: added magic support for bcmp()
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:00:44  ram
?RCS: patch10: now only defines HAS_BCMP, no macro remap on memcmp (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:d_bcmp: Inlibc
?MAKE: -pick add $@ %<
?S:d_bcmp:
?S: This variable conditionally defines the HAS_BCMP symbol
 if
?S: the bcmp() routine is available to compare strings.
?S:.
?C:HAS_BCMP:
?C: This symbol is defined if the bcmp() routine is available to
?C: compare blocks of memory.
?C:.
?H:#$d_bcmp HAS_BCMP /**/
?H:.
?M:bcmp: HAS_BCMP
?M:#ifndef HAS_BCMP
?M:#ifndef bcmp
?M:#define bcmp(s,d,l) memcmp((s),(d),(l))
?M:#endif
?M:#endif
?M:.
?LINT:set d_bcmp
: see if bcmp exists
set bcmp d_bcmp
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_bcmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endhostent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_endhostent_r endhostent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_endhostent_r:
?S: This variable conditionally defines the HAS_ENDHOSTENT_R symbol,
?S: which indicates to the C program that the endhostent_r()
?S: routine is available.
?S:.
?S:endhostent_r_proto:
?S: This variable encodes the prototype of endhostent_r.
```

```
?S: It is zero if d_endhostent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endhostent_r
?S: is defined.
?S:.
?C:HAS_ENDHOSTENT_R:
?C: This symbol, if defined, indicates that the endhostent_r routine
?C: is
 available to endhostent re-entrantly.
?C:.
?C:ENDHOSTENT_R_PROTO:
?C: This symbol encodes the prototype of endhostent_r.
?C: It is zero if d_endhostent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endhostent_r
?C: is defined.
?C:.
?H:#$d_endhostent_r HAS_ENDHOSTENT_R /**/
?H:#define ENDHOSTENT_R_PROTO $endhostent_r_proto /**/
?H:.
?T:try hdrs d_endhostent_r_proto
: see if endhostent_r exists
set endhostent_r d_endhostent_r
eval $inlibc
case "$d_endhostent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_endhostent_r_proto:$usethreads" in
 ":define") d_endhostent_r_proto=define
  set d_endhostent_r_proto endhostent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_endhostent_r_proto" in
 define)
 case "$endhostent_r_proto" in
 "|0) try='int endhostent_r(struct hostent_data*);'
 ./protochk "$extern_C $try" $hdrs && endhostent_r_proto=I_D ;;
 esac
 case "$endhostent_r_proto" in
 "|0) try='void endhostent_r(struct
 hostent_data*);'
 ./protochk "$extern_C $try" $hdrs && endhostent_r_proto=V_D ;;
 esac
 case "$endhostent_r_proto" in
 "|0) d_endhostent_r=undef
  endhostent_r_proto=0
  echo "Disabling endhostent_r, cannot determine prototype." >&4 ;;
 * ) case "$endhostent_r_proto" in
  REENTRANT_PROTO*) ;;
```

```
  *) endhostent_r_proto="REENTRANT_PROTO_$endhostent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "endhostent_r has no prototype, not using it." >&4 ;;
  esac
  d_endhostent_r=undef
  endhostent_r_proto=0
  ;;
 esac
 ;;
*) endhostent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_endhostent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:Devel usedevel: Myread rsrc package
?MAKE: -pick wipe $@ %<
?T:xversion
?X: waiver of rights
?S:usedevel:
?S: This variable indicates that Perl was configured with development
?S: features enabled.  This should not be done for production builds.
?S:.
?C:PERL_USE_DEVEL:
?C: This symbol, if defined, indicates that Perl was configured with
?C: -Dusedevel, to enable development features.  This should not be
?C: done for production builds.
?C:.
?H:#$usedevel PERL_USE_DEVEL  /**/
?H:.
?LINT:extern versionony
```

```
?LINT:extern
 installusrbinperl
?LINT:change versiononly
?LINT:change installusrbinperl
: See if we are using a devel version and want that
xversion=`awk '/define[  ]+PERL_VERSION/ {print $3}' $rsrc/patchlevel.h`
case "$usedevel" in
$define|true|[yY]*)
   usedevel="$define" ;;
*) case "$xversion" in
  *[13579])
 cat >&4 <<EOH
*** WHOA THERE!!! ***

   This is an UNSTABLE DEVELOPMENT release.
   The version of this $package distribution is $xversion, that is, odd,
   (as opposed to even) and that signifies a development release.
   If you want a maintenance release, you want an even-numbered version.

   Do ***NOT*** install this into production use.
   Data corruption and crashes are possible.

   It is most seriously suggested that you do not continue any further
   unless you want to help in developing and debugging Perl.

   If you *still* want to build perl, you can answer 'y' now,
   or pass -Dusedevel to Configure.

EOH
 rp='Do you really want to continue?'
 dflt='n'
 . ./myread
 case
 "$ans" in
 [yY]) echo >&4 "Okay, continuing."
       usedevel="$define" ;;
 *) echo >&4 "Okay, bye."
    exit 1
    ;;
 esac
 ;;
   esac
   usedevel="$undef"
   ;;
esac
case "$usedevel" in
$define|true|[yY]*)
 case "$versiononly" in
```

```
 ") versionononly="$define" ;;
 esac
 case "$installusrbinperl" in
 ") installusrbinperl="$undef" ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/Devel.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_flock.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_flock.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_flock: Inlibc
?MAKE: -pick add $@ %<
?S:d_flock:
?S: This variable conditionally defines HAS_FLOCK if flock() is
?S: available to do file locking.
?S:.
?C:HAS_FLOCK (FLOCK):
?C: This symbol, if defined, indicates that the flock routine is
?C: available to do file locking.
?C:.
?H:#$d_flock HAS_FLOCK  /**/
?H:.
?LINT:set d_flock
: see
 if flock exists
set flock d_flock
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_flock.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sockopt.U,v 3.0.1.1 1995/07/25 14:16:14 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sockopt.U,v $
?RCS: Revision 3.0.1.1  1995/07/25  14:16:14  ram
?RCS: patch56: obsoleted KEEPALIVE in favor of CAN_KEEPALIVE for consistency
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_keepalive: cat rm contains +cc +ccflags +ldflags socketlib sockethdr \
 d_oldsock libs Oldconfig Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_keepalive:
?S: This symbol conditionally defines CAN_KEEPALIVE which
 indicates to the C
?S: program that setsockopt SO_KEEPALIVE will work properly.
?S:.
?C:CAN_KEEPALIVE (KEEPALIVE):
?C: This symbol if defined indicates to the C program that the SO_KEEPALIVE
?C: option of setsockopt() will work as advertised in the manual.
?C:.
?H:#$d_keepalive CAN_KEEPALIVE  /**/
?H:.
?F:!socket
?LINT:set d_keepalive
: see if setsockopt with SO_KEEPALIVE works as advertised
echo " "
case "$d_oldsock" in
"$undef")
 if $contains SO_KEEPALIVE `./findhdr sys/socket.h` \
  /dev/null >/dev/null 2>&1
 then
  echo "OK, let's see if SO_KEEPALIVE works as advertised..." >&4
  $cat > socket.c <<EOP
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
#include <netdb.h>
```

```
int main()
{
 int s = socket(AF_INET, SOCK_STREAM, 0);
 if (s == -1)
  exit(1);
 if (-1 == setsockopt(s, SOL_SOCKET, SO_KEEPALIVE, 0, 0))
  exit(2);
 exit(0);
}
EOP
  if $cc $ccflags $sockethdr $ldflags -o socket socket.c $libs \
   $socketlib >/dev/null 2>&1; then
   ./socket >/dev/null 2>&1
   case
 $? in
   0) echo "Yes, it does!"
    val="$define";;
   1) $cat <<EOM
(Something went wrong -- Assuming SO_KEEPALIVE is broken)
EOM
    val="$undef";;
   2) echo "No, it doesn't.  Don't trust your manuals!!"
    val="$undef";;
   esac
  else
   cat <<EOM
(I can't compile the test program -- Assuming SO_KEEPALIVE is broken)
EOM
   val="$undef"
  fi
 else
  echo "Strange!! You have BSD 4.2 sockets but no SO_KEEPALIVE option."
  val="$undef"
 fi;;
*) cat <<EOM
As you have an old socket interface, you can't have heard of SO_KEEPALIVE.
EOM
 val="$undef";;
esac
set d_keepalive
eval $setvar
$rm -f socket socket.c
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/sockopt.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_syslog.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_syslog: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_syslog:
?S: This variable conditionally defines the I_SYSLOG symbol,
?S: and indicates whether a C program should include <syslog.h>.
?S:.
?C:I_SYSLOG:
?C: This symbol, if defined, indicates that <syslog.h> exists and
?C: should be included.
?C:.
?H:#$i_syslog I_SYSLOG  /**/
?H:.
?LINT:set i_syslog
: see if this is a syslog.h system
set syslog.h i_syslog
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_syslog.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fmod.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_fmod.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:12:46  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_fmod: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_fmod:
?S: This variable conditionally defines the HAS_FMOD symbol, which
?S: indicates to the C program that the fmod() routine is available.
?S: See also d_drem for the drem() routine which does roughly the same.
?S:.
?C:HAS_FMOD
 :
?C: This symbol, if defined, indicates that the fmod routine is
?C: available to compute the remainder r=x-n*y where n=trunc(x/y).
?C:.
?H:#$d_fmod HAS_FMOD  /**/
?H:.
?LINT:set d_fmod
: see if fmod exists
set fmod d_fmod
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_fmod.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: AAAAA.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: AAAAA.U,v $
?RCS: Revision 3.0.1.4  1994/06/20  06:50:26  ram
?RCS: patch30: changes from Jarkko Hietaniemi are tagged with JHI
?RCS:
?RCS: Revision 3.0.1.3  1994/05/06  14:01:39  ram
?RCS: patch23: initials for Wayne Davison are now WED
?RCS: patch23: added initials for new unit contributor Andy Dougherty
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:01:09  ram
?RCS: patch16: make metalint shut up on special unit definition for All target
?RCS:
?RCS: Revision
 3.0.1.1  1993/09/13  15:43:57  ram
?RCS: patch10: documents initials used for Wayne Davison's contributions
?RCS:
```

```
?RCS: Revision 3.0  1993/08/18  12:04:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this file is to supply the head of the Makefile created
?X: by metaconfig.  For this reason it must be first in alphabetical order.
?X: The leading '+' in front of the unit name is a hint for metalint, since
?X: the use of that special unit name as a "made" unit is legitimate here.
?X:
?MAKE:+All: Finish
?X:
?X: Throughout the units, the following initials are used to identify comments:
?X:
?X:  HMS: Harlan Stenn
?X:  RAM: Raphael Manfredi
?X:  WED: Wayne Davison (was WAD by mistake--RAM)
?X:  ADO: Andy Dougherty
?X:  JHI: Jarkko Hietaniemi
?X:
?X: Agreed, this is a weird place to document it, but I couldn't find a better
?X: place to do so. I've bet on the curiosity of users, who would probably
?X: want to know what's in this strangely-named file--RAM.
```

Found
 in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/AAAAA.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: errnolist.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:48:01  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: likewise for .o replaced by $_o
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:10:54  ram
?RCS: patch16: created
?RCS:
?MAKE:errnolist errnolist_SH errnolist_a errnolist_c errnolist_o: cat +cc \
```

```
 +ccflags +libs +d_sysernlst _a _o
?MAKE: -pick add $@ %<
?S:errnolist:
?S: This variable holds the base name of a file containing the
?S: definition of the sys_errnolist
 array, if the C library
?S: doesn't provide it already.  Otherwise, its value is empty.
?S: The following lines should be included in your Makefile.SH:
?S:
?S:  case "$errnolist" in
?S:  ") ;;
?S:  *)
?S:   $spitshell >>Makefile <<!GROK!THIS!
?S:  $errnolist_c: $errnolist_SH $errnolist_a
?S:   sh ./$errnolist_SH
?S:
?S:  !GROK!THIS!
?S:   ;;
?S:  esac
?S:
?S: You may define the 'errnolist' variable in your Myinit.U if you
?S: wish to override its default value "errnolist".
?S:.
?S:errnolist_SH:
?S: This is the name of a file which will generate errnolistc.
?S:.
?S:errnolist_a:
?S: This is the name of the awk script called by errnolist_SH.
?S:.
?S:errnolist_c:
?S: This is the name of a generated C file which provides the
?S: definition of the sys_errnolist array.
?S:.
?S:errnolist_o:
?S: This is the name of the object file which provides the
?S: definition of the sys_errnolist array, if the C library
?S: doesn't provide it already.  Otherwise, its value is empty.
?S:.
?INIT:errnolist=errnolist
:
 check for sys_errnolist
@if d_sysernlst || HAS_SYS_ERRNOLIST
case "$d_sysernlst" in
"$define")
   errnolist=''
   errnolist_SH=''
   errnolist_a=''
   errnolist_c=''
```

```
   errnolist_o="
 ;;
*)
 echo " "
 echo "I'll make sure your Makefile provides sys_errnolist in $errnolist.c"
   errnolist_SH=$errnolist.SH
   errnolist_a=$errnolist$_a
   errnolist_c=$errnolist.c
   errnolist_o=$errnolist$_o
 ;;
esac
@else
echo " "
$cat <<EOM
Checking to see if your C library provides us with sys_errnolist[]...
EOM
$cat >errnolist.c <<'EOCP'
extern char *sys_errnolist[];
int main() {
   char *p0 = sys_errnolist[0];
   char *p1 = sys_errnolist[1];

   return (p0 == p1); /* Make sure they're not optimized away */
}
EOCP
if $cc $ccflags -o errnolist errnolist.c $libs >/dev/null 2>&1 ; then
   echo "It does."
   errnolist="
   errnolist_SH="
   errnolist_a="
   errnolist_c="
   errnolist_o="
else
 echo "I'll make sure your Makefile provides sys_errnolist in $errnolist.c"

   errnolist_SH=$errnolist.SH
   errnolist_a=$errnolist$_a
   errnolist_c=$errnolist.c
   errnolist_o=$errnolist$_o
fi
@end
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/errnolist.U
No license file was found, but licenses were detected in source scan.

?RCS: Id

```
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_drand48proto: Hasproto i_stdlib i_unistd
?MAKE: -pick add $@ %<
?S:d_drand48proto:
?S: This variable conditionally defines the HAS_DRAND48_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the drand48() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_DRAND48_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the drand48() function.  Otherwise, it is up
?C: to the program to supply one.  A good guess
 is
?C:  extern double drand48(void);
?C:.
?H:#$d_drand48proto HAS_DRAND48_PROTO /**/
?H:.
?LINT:set d_drand48proto
: see if prototype for drand48 is available
echo " "
set d_drand48proto drand48 $i_stdlib stdlib.h $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/d_drand48proto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_time.U,v 3.0.1.2 1995/07/25 14:07:43 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_time.U,v $
```

```
?RCS: Revision 3.0.1.2  1995/07/25  14:07:43  ram
?RCS: patch56: typo fix, sytem -> system
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:16:38  ram
?RCS: patch36: now uses new Typedef unit to compute type information (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X: Maybe <sys/types.h> should be included?
?X:INC: i_systypes
?MAKE:d_time timetype: Csym Setvar Findhdr Myread Typedef
?MAKE: -pick
 add $@ %<
?S:d_time:
?S: This variable conditionally defines the HAS_TIME symbol, which indicates
?S: that the time() routine exists.  The time() routine is normally
?S: provided on UNIX systems.
?S:.
?S:timetype:
?S: This variable holds the type returned by time(). It can be long,
?S: or time_t on BSD sites (in which case <sys/types.h> should be
?S: included). Anyway, the type Time_t should be used.
?S:.
?C:HAS_TIME (TIMER):
?C: This symbol, if defined, indicates that the time() routine exists.
?C:.
?C:Time_t (TIMETYPE):
?C: This symbol holds the type returned by time(). It can be long,
?C: or time_t on BSD sites (in which case <sys/types.h> should be
?C: included).
?C:.
?H:#$d_time HAS_TIME  /**/
?H:#define Time_t $timetype  /* Time type */
?H:.
?LINT:set d_time
: see if time exists
echo " "
?X: MPE/iX needs this protection of hint values.
?X: See d_sterror.U for more explanation.
if test "X$d_time" = X -o X"$timetype" = X; then
   if set time val -f d_time; eval $csym; $val;
 then
  echo 'time() found.' >&4
  val="$define"
  rp="What is the type returned by time() on this system?"
  set time_t timetype long stdio.h sys/types.h
  eval $typedef_ask
```

```
  else
 echo 'time() not found, hope that will do.' >&4
 val="$undef"
 timetype='int';
  fi
  set d_time
  eval $setvar
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/d_time.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_dbl_dig.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_dbl_dig.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:28  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_dbl_dig: Myread contains cat rm Setvar i_limits i_float \
 cppstdin cppflags cppminus
?MAKE: -pick add $@ %<
?S:d_dbl_dig:
?S: This variable conditionally defines d_dbl_dig if this system's
?S: header files provide DBL_DIG, which is the number of significant
?S: digits
 in a double precision number.
?S:.
?C:HAS_DBL_DIG:
?C: This symbol, if defined, indicates that this system's <float.h>
?C: or <limits.h> defines the symbol DBL_DIG, which is the number
?C: of significant digits in a double precision number.  If this
?C: symbol is not defined, a guess of 15 is usually pretty good.
?C:.
?H:#$d_dbl_dig HAS_DBL_DIG  /**/
?H:.
?F:!dbl_dig.c
```

```
?LINT:set d_dbl_dig
: See if number of significant digits in a double precision number is known
echo " "
$cat >dbl_dig.c <<EOM
#$i_limits I_LIMITS
#$i_float I_FLOAT
#ifdef I_LIMITS
#include <limits.h>
#endif
#ifdef I_FLOAT
#include <float.h>
#endif
#ifdef DBL_DIG
printf("Contains DBL_DIG");
#endif
EOM
$cppstdin $cppflags $cppminus < dbl_dig.c >dbl_dig.E 2>/dev/null
if $contains 'DBL_DIG' dbl_dig.E >/dev/null 2>&1; then
 echo "DBL_DIG found." >&4
 val="$define"
else
 echo "DBL_DIG NOT found." >&4
 val="$undef"
fi
$rm -f dbl_dig.?
set d_dbl_dig
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_dbl_dig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: nlist_pfx.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: nlist_pfx.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:26:18  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:25  ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:nlist_pfx nlist_fnd: cat test Myread Oldconfig libnlist \
 +cc +ccflags
?MAKE: -pick add $@ %<
?S:nlist_pfx:
?S: This variable holds any characters which precede the symbol name
?S: when doing an nlist search.
?S:.
?S:nlist_fnd:
?S: This
 variable holds the member of the nlist structure which is
?S: nonzero if an nlist search succeeds.  Presently, it is always "n_value".
?S:.
?C:NLIST_PREFIX:
?C: This manifest constant holds the string of characters which should
?C: precede the symbol name when doing an nlist search.
?C:.
?C:NLIST_FOUND:
?C: This manifest constant holds the member of the nlist structure which
?C: is nonzero if an nlist search succeeds.
?C:.
?H:#define NLIST_PREFIX $nlist_pfx /**/
?H:#define NLIST_FOUND $nlist_fnd /**/
?H:.
?F:!nlisttest
?T:nlist_loc
: Nose around for nlist stuff
echo " "
echo "Checking out nlist stuff..." >&4
$cat >nlisttest.c <<'EOCP'
#include <stdio.h>
#include <nlist.h>

main(argc, argv)
int argc;
char **argv;
{
 int (*loc)();
 extern int hereIam();
 static struct nlist nl[] = {
  { "IamNotFound", 0 },
  { "hereIam", 0 },
  { "_hereIam", 0 },
  { ".hereIam", 0 },
  { "", 0 }
 };
```

```
 loc = hereIam;

 if(argc == 1) {
  printf("%ld\n", loc);}
 else {
  int i;
  int rc;

  if(nlist("./nlisttest",
 nl) == -1) exit(-1);
  i = argv[1][0] - '0';
  printf("%d %d %d\n", nl[i].n_name, nl[i].n_type, nl[i].n_value);
  }
 exit(0);}

int hereIam() {

 return;}
EOCP
nlist_fnd=n_value
if $cc $ccflags -o nlisttest nlisttest.c $libnlist >/dev/null 2>&1 ; then
 set `./nlisttest`
 nlist_loc=$1

 set `./nlisttest 0`
 if $test "$3" = "0" ; then
  echo "$nlist_fnd is 0 if nlist() fails, as I expected."
 else
  $cat <<EOM
Hello, Jim.  We have just discovered that $nlist_fnd was nonzero on an
nlist() lookup failure!  Your mission, should you choose to accept it, is to
edit either config.sh (to provide a Good value for nlist_fnd) or The Code
(to find an alternative to NLIST_FOUND), and reporting the full details of
your success to the MetaConfig Police.  Of course, should you fail...
EOM
  nlist_fnd="/* Bletch! */ */"
 fi

 set `./nlisttest 1`
 if $test "$nlist_loc" = "$3" ; then
  echo "Symbols are stored with no initial characters."
  nlist_pfx=
 else
  set `./nlisttest 2`
  if
 $test "$nlist_loc" = "$3" ; then
   echo "Symbols are stored with an initial underscore."
   nlist_pfx=_
```

```
  else
   set `./nlisttest 3`
   if $test "$nlist_loc" = "$3" ; then
    echo "Symbols are stored with an initial dot."
    nlist_pfx=.
   else
    $cat <<EOM
I can't figure out the symbol prefix!
You get to edit config.sh and fix 'nlist_pfx' (Configure will let you do this
at the end of its configuration questions), or config.h and fix the value of
the NLIST_PREFIX symbol.
EOM
    nlist_pfx="/* Bletch! */ */"
   fi
  fi
 fi
else
 $cat <<EOM
I can't get the nlist test program working!
You get to edit config.sh and fix 'nlist_pfx' (Configure will let you do this
at the end of its configuration questions) and 'nlist_fnd', or config.h and
fix the value of the NLIST_PREFIX and NLIST_FOUND symbols.
EOM
 nlist_pfx="/* Bletch! */ */"
 nlist_fnd="/* Bletch! */ */"
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/nlist_pfx.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sh.U,v 3.0.1.1 1997/02/28 16:20:13 ram Exp $
?RCS:
?RCS: Copyright (c) 1997, Chip Salzenberg
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sh.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:20:13  ram
?RCS: patch61: created
?RCS:
?MAKE:sh targetsh: Head
```

```
?MAKE: -pick wipe $@ %<
?S:sh:
?S: This variable contains the full pathname of the shell used
?S: on this system to execute Bourne shell scripts.  Usually, this will be
?S: /bin/sh, though it's possible that some systems will have /bin/ksh,
?S: /bin/pdksh, /bin/ash, /bin/bash, or even something such as
?S: D:/bin/sh.exe.
?S: This
 unit comes before Options.U, so you can't set sh with a -D
?S: option, though you can override this (and startsh)
?S: with -O -Dsh=/bin/whatever -Dstartsh=whatever
?S:.
?S:targetsh:
?S: If cross-compiling, this variable contains the location of sh on the
?S: target system.
?S: If not, this will be the same as $sh.
?S:.
?C:SH_PATH:
?C: This symbol contains the full pathname to the shell used on this
?C: on this system to execute Bourne shell scripts.  Usually, this will be
?C: /bin/sh, though it's possible that some systems will have /bin/ksh,
?C: /bin/pdksh, /bin/ash, /bin/bash, or even something such as
?C: D:/bin/sh.exe.
?C:.
?H:#define SH_PATH "$targetsh"  /**/
?H:.
?T:xxx try pth p SYSTYPE
?LINT:extern maintloc maintname _exe
?X:
?X: Be quiet unless something unusual happens because this gets
?X: loaded up even before options are processed.
?X: Can't use ./loc because that depends on startsh, which, in turn
?X: depends on this unit.
?X:
: Find the basic shell for
 Bourne shell scripts
case "$sh" in
")
?X: SYSTYPE is for some older MIPS systems.
?X: I do not know if it is still needed.
 case "$SYSTYPE" in
 *bsd*|sys5*) xxx="/$SYSTYPE/bin/sh";;
 *) xxx='/bin/sh';;
 esac
 if test -f "$xxx"; then
  sh="$xxx"
 else
  : Build up a list and do a single loop so we can 'break' out.
```

```
  pth=`echo $PATH | sed -e "s/$p_/ /g"`
  for xxx in sh bash ksh pdksh ash; do
   for p in $pth; do
    try="$try ${p}/${xxx}"
   done
  done
  for xxx in $try; do
   if test -f "$xxx"; then
    sh="$xxx";
    break
   elif test "X$_exe" != X -a -f "$xxx$_exe"; then
    sh="$xxx";
    break
   elif test -f "$xxx.exe"; then
    sh="$xxx";
    break
   fi
  done
 fi
 ;;
esac

?X: fd 4 isn't open yet...
case "$sh" in
") cat >&2 <<EOM
$me:  Fatal Error:  I can't find a Bourne Shell anywhere.

Usually it's in /bin/sh.  How did you even get this far?
Please report this issue at <$maintloc>
and we'll try to straighten this all out.
EOM
 exit 1
 ;;
esac

: When cross-compiling we
 need to separate the sh-to-run-Configure-with from the sh-to-use-in-Perl
: default both to the same thing, cross-compilers can then set targetsh differently if they like
targetsh=$sh
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/sh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setprior.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setprior.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:11  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setprior: Inlibc
?MAKE: -pick add $@ %<
?S:d_setprior:
?S: This variable conditionally defines HAS_SETPRIORITY if setpriority()
?S: is available to set a process's priority.
?S:.
?C:HAS_SETPRIORITY (SETPRIORITY):
?C: This symbol, if defined, indicates that the setpriority routine is
?C: available to set a process's priority.
?C:.
?H:#$d_setprior
 HAS_SETPRIORITY  /**/
?H:.
?LINT:set d_setprior
: see if setpriority exists
set setpriority d_setprior
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setprior.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_ieeefp.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_ieeefp: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_ieeefp:
?S: This variable conditionally defines the I_IEEEFP symbol, and indicates
?S: whether a C program should include <ieeefp.h>.
?S:.
?C:I_IEEEFP:
```

```
?C: This symbol, if defined, indicates that <ieeefp.h> exists and
?C: should be included.
?C:.
?H:#$i_ieeefp I_IEEEFP  /**/
?H:.
?LINT:set i_ieeefp
: see if this is a ieeefp.h system
case "$i_ieeefp" in
" ) set ieeefp.h i_ieeefp
    eval $inhdr
    ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_ieeefp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: lns.U,v 3.0.1.1 1994/06/20 07:05:52 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: lns.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  07:05:52  ram
?RCS: patch30: created by ADO
?RCS:
?X:
?X: This unit checks whether symbolic links are really supported.
?X: We can't rely on d_symlink because that may be listed in the
?X: C library but unimplemented.
?X:
?MAKE:lns: ln rm touch
?MAKE: -pick add $@ %<
?S:lns:
?S: This variable holds the name of the command to make
?S: symbolic
 links (if they are supported).  It can be used
?S: in the Makefile. It is either 'ln -s' or 'ln'
?S:.
: determine whether symbolic links are supported
```

```
echo " "
$touch blurfl
if $ln -s blurfl sym > /dev/null 2>&1 ; then
 echo "Symbolic links are supported." >&4
 lns="$ln -s"
else
 echo "Symbolic links are NOT supported." >&4
 lns="$ln"
fi
$rm -f blurfl sym
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/lns.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: orgname.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: orgname.U,v $
?RCS: Revision 3.0.1.1  1993/09/13  16:10:25  ram
?RCS: patch10: added support for /local/src to the search (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:orgname: sed cat Myread Loc Oldconfig
?MAKE: -pick add $@ %<
?S:orgname:
?S: This variable contains the eventual value of the ORGNAME symbol,
?S: which contains either the organizaton name or the full pathname
?S: of
 a file containing the organization name.
?S:.
?C:ORGNAME:
?C: This symbol contains either the organizaton name or the full pathname
?C: of a file containing the organization name, which the program must
?C: be prepared to open and substitute the contents of.
?C:.
?H:#define ORGNAME "$orgname"  /**/
?H:.
```

```
?T:longshots xxx
: get organization name
longshots='/local/src /usr/src/new /usr/src/local /usr/local/src'
case "$orgname" in
") if xxx=`./loc news/src/defs.h x $longshots`; then
  dflt=`$sed -n 's/^.*MYORG[  ]*"\(.*\)".*$/\1/p' $xxx`
 else
  dflt=''
 fi
 ;;
*)  dflt="$orgname";;
esac
$cat << 'EOH'

Please type the name of your organization as you want it to appear on the
Organization line of outgoing articles.  (It's nice if this also specifies
your location.  Your city name is probably sufficient if well known.)
For example:

   University of Southern North Dakota, Hoople

You may also put the name of a file, as long as it begins with a slash.
For example:

   /etc/organization

EOH
orgname=""
while
 test "X$orgname" = "X"; do
 rp='Organization:'
 . ./myread
 orgname="$ans"
done
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/orgname.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_munmap.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_munmap.U,v $
?RCS: Revision 3.0.1.1  1993/12/15  08:19:22  ram
?RCS: patch15: created
?RCS:
?MAKE:d_munmap: Inlibc
?MAKE: -pick add $@ %<
?S:d_munmap:
?S: This variable conditionally defines HAS_MUNMAP if munmap() is
?S: available to unmap a region mapped by mmap().
?S:.
?C:HAS_MUNMAP:
?C: This symbol, if defined, indicates that the munmap system call is
?C: available to unmap a region, usually mapped by mmap().
?C:.
?H:#$d_munmap HAS_MUNMAP  /**/
?H:.
?LINT:set
 d_munmap
: see if munmap exists
set munmap d_munmap
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_munmap.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strdup.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strdup.U,v $
?RCS: Revision 3.0.1.1  1993/12/15  08:21:41  ram
?RCS: patch15: created
?RCS:
?MAKE:d_strdup: Inlibc
?MAKE: -pick add $@ %<
?S:d_strdup:
?S: This variable conditionally defines HAS_STRDUP if strdup() is
?S: available to duplicate strings in memory.
```

```
?S:.
?C:HAS_STRDUP:
?C: This symbol, if defined, indicates that the strdup routine is
?C: available to duplicate strings in memory. Otherwise, roll up
?C: your own...
?C:.
?H:#$d_strdup HAS_STRDUP  /**/
?H:.
?LINT:set
 d_strdup
: see if strdup exists
set strdup d_strdup
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strdup.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_memalign.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memalign.U,v $
?RCS:
?MAKE:d_memalign: Inlibc
?MAKE: -pick add $@ %<
?S:d_memalign:
?S: This variable conditionally defines the HAS_MEMALIGN symbol, which
?S: indicates to the C program that the memalign() routine is available.
?S:.
?C:HAS_MEMALIGN :
?C: This symbol, if defined, indicates that the memalign routine is
?C: available to allocate aligned memory.
?C:.
?H:#$d_memalign HAS_MEMALIGN  /**/
?H:.
?LINT:set d_memalign
: see if memalign exists
set
 memalign d_memalign
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_memalign.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_atoll: Inlibc
?MAKE: -pick add $@ %<
?S:d_atoll:
?S: This variable conditionally defines the HAS_ATOLL symbol, which
?S: indicates to the C program that the atoll() routine is available.
?S:.
?C:HAS_ATOLL:
?C: This symbol, if defined, indicates that the atoll routine is
?C: available to convert strings into long longs.
?C:.
?H:#$d_atoll HAS_ATOLL  /**/
?H:.
?LINT:set d_atoll
: see if atoll exists
set atoll d_atoll
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/atoll.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_socks5_init: Inlibc
?MAKE: -pick add $@ %<
?S:d_socks5_init:
?S: This variable conditionally defines the HAS_SOCKS5_INIT symbol, which
?S: indicates to the C program that the socks5_init() routine is available.
?S:.
```

```
?C:HAS_SOCKS5_INIT:
?C: This symbol, if defined, indicates that the socks5_init routine is
?C: available to initialize SOCKS 5.
?C:.
?H:#$d_socks5_init HAS_SOCKS5_INIT  /**/
?H:.
?LINT:set d_socks5_init
: see if socks5_init exists
set socks5_init d_socks5_init
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_socks5_init.U
No license file was found, but licenses were detected in source scan.

```
*  You may redistribute only under the terms of the Artistic Licence,
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/files/Jmake.tmpl
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_fp.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_fp: Inhdr
?MAKE: -pick add $@ %<
?S:i_fp:
?S: This variable conditionally defines the I_FP symbol, and indicates
?S: whether a C program should include <fp.h>.
?S:.
?C:I_FP:
?C: This symbol, if defined, indicates that <fp.h> exists and
?C: should be included.
?C:.
?H:#$i_fp I_FP  /**/
?H:.
?LINT:set i_fp
: see if this is a fp.h system
set fp.h i_fp
eval $inhdr
```

Found in path(s):

* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_fp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: randfunc.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This is the new unit that should be used when random
?X: functions are to be used. It thus makes randbits.U obsolete.
?X:
?MAKE:randfunc mrand seedfunc nrandbits: cat +cc rm test Myread Csym
?MAKE: -pick add $@ %<
?S:randfunc:
?S: Indicates the name of the random number function to use.
?S: Values include drand48, random, and rand. In C programs,
?S: the 'nrand' macro is defined
 to generate uniformly distributed
?S: random numbers over the range [0., 1.] (see mrand and nrand).
?S:.
?S:mrand:
?S: Indicates the macro to be used to generate normalized
?S: random numbers.  Uses randfunc, often divided by
?S: (double) ((1 << nrandbits) -1) in order to normalize the result.
?S: In C programs, the macro 'nrand' is maped on mrand.
?S:.
?S:seedfunc:
?S: Indicates the random number generating seed function.
?S: Values include srand48, srandom, and srand.
?S:.
?S:nrandbits:
?S: Indicates how many bits are produced by the function used to
?S: generate normalized random numbers.
?S:.
?C:nrand:
?C: This macro is to be used to generate uniformly distributed
?C: random numbers over the range [0., 1.].
```

```
?C:.
?C:seednrand:
?C: This symbol defines the macro to be used in seeding the
?C: random number generator (see nrand).
?C:.
?H:#define nrand()  $mrand  /**/
?H:#define seednrand(x) $seedfunc(x) /**/
?H:.
?T:cont val
?LINT:nothere $nrandbits)
: How can we generate normalized
 random numbers ?
echo " "
case "$randfunc" in
")
 if set drand48 val -f; eval $csym; $val; then
  dflt="drand48"
  echo "Good, found drand48()." >&4
 elif set random val -f; eval $csym; $val; then
  dflt="random"
  echo "OK, found random()." >&4
 else
  dflt="rand"
  echo "Yick, looks like I have to use rand()." >&4
 fi
 echo " "
 ;;
*)
 dflt="$randfunc"
 ;;
esac
cont=true
while $test "$cont"; do
 rp="Use which function to generate random numbers?"
 . ./myread
?X: Invalidates nrandbits if the answer is not the default so
?X: that the value stored in config.sh will not be used when
?X: we change our random function.
 if $test "$ans" = "$dflt"; then
  : null
 else
  nrandbits=''
 fi
 randfunc="$ans"
 if set $ans val -f; eval $csym; $val; then
  cont=''
 else
  dflt=n
```

```
  rp="Function $ans does not exists. Use that name anyway?"
  . ./myread
  dflt=rand
  case "$ans" in
   [yY]*) cont=";;
  esac
 fi
 case "$cont" in
 ")
  case "$randfunc" in
  drand48)
   mrand="drand48()"
   seedfunc="srand48"
   ;;
  rand*)
   case
 "$nrandbits" in
   ")
echo "Checking to see how many bits your $randfunc() function produces..." >&4
   $cat >try.c <<EOCP
#include <stdio.h>
int main()
{
 register int i;
 register unsigned long tmp;
 register unsigned long max = 0L;
 extern long random();

 for (i = 1000; i; i--) {
  tmp = (unsigned long)$randfunc();
  if (tmp > max) max = tmp;
 }
 for (i = 0; max; i++)
  max /= 2;
 printf("%d\n",i);
}
EOCP
   if $cc -o try try.c >/dev/null 2>&1 ; then
   dflt=`try`
   else
   dflt='?'
   echo "(I can't seem to compile the test program...)"
   fi
   ;;
   *)
    dflt="$nrandbits"
    ;;
   esac
```

```
   rp="How many bits does your $randfunc() function produce?"
   . ./myread
   nrandbits="$ans"
   $rm -f try.c try
   mrand="($randfunc() / (double) ((1 << $nrandbits) -1))"
   seedfunc="srand"
   ;;
?X: The following is provided just in case...
  *)
   dflt="31"
   rp="How many bits does your $randfunc() function produce?"
   . ./myread
   nrandbits="$ans"
   seedfunc="s$randfunc"
   mrand="($randfunc()
 / (double) ((1 << $nrandbits) -1))"
   if set $seedfunc val -f; eval $csym; $val; then
    echo "(Using $seedfunc() to seed random generator)"
   else
    echo "(Warning: no $seedfunc() to seed random generator)"
    seedfunc=rand
   fi
   ;;
  esac
  ;;
 esac
done
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/randfunc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysun.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysun.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
```

```
?X: This unit looks wether <sys/un.h> is available or not
?X:
?MAKE:i_sysun: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysun:
?S: This variable conditionally defines I_SYS_UN, which indicates
?S: to the C program that it should include <sys/un.h> to get UNIX
?S: domain socket definitions.
?S:.
?C:I_SYS_UN:
?C: This symbol, if defined, indicates
 to the C program that it should
?C: include <sys/un.h> to get UNIX domain socket definitions.
?C:.
?H:#$i_sysun I_SYS_UN  /**/
?H:.
?LINT:set i_sysun
: see if this is a sys/un.h system
set sys/un.h i_sysun
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sysun.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: perlxv.U,v 1.1 2000/08/31 17:53:56 jhi Exp jhi $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:ivtype uvtype nvtype ivsize uvsize nvsize \
    i8type u8type i16type u16type i32type u32type i64type u64type \
    i8size u8size i16size u16size i32size u32size i64size u64size \
    d_nv_preserves_uv nv_preserves_uv_bits nv_overflows_integers_at \
    d_nv_zero_is_allbits_zero: \
 echo rm_try use64bitint d_quad quadtype uquadtype usequadmath \
 d_longdbl uselongdouble longdblsize doublesize i_quadmath \
 shortsize intsize longsize i_stdlib libs gccversion \
 cat Compile i_inttypes test signal_t run
?MAKE: -pick add $@ %<
?S:ivtype:
?S: This variable contains the C type used for Perl's IV.
?S:.
?S:uvtype:
?S: This variable contains the C type
```

used for Perl's UV.
?S:.
?S:nvtype:
?S: This variable contains the C type used for Perl's NV.
?S:.
?S:i8type:
?S: This variable contains the C type used for Perl's I8.
?S:.
?S:u8type:
?S: This variable contains the C type used for Perl's U8.
?S:.
?S:i16type:
?S: This variable contains the C type used for Perl's I16.
?S:.
?S:u16type:
?S: This variable contains the C type used for Perl's U16.
?S:.
?S:i32type:
?S: This variable contains the C type used for Perl's I32.
?S:.
?S:u32type:
?S: This variable contains the C type used for Perl's U32.
?S:.
?S:i64type:
?S: This variable contains the C type used for Perl's I64.
?S:.
?S:u64type:
?S: This variable contains the C type used for Perl's U64.
?S:.
?S:ivsize:
?S: This variable is the size of an IV in bytes.
?S:.
?S:uvsize:
?S: This variable is the size of a UV in bytes.
?S:.
?S:i8size:
?S: This variable is the size of an I8 in bytes.
?S:.
?S:u8size:
?S: This variable is the size of an U8 in bytes.
?S:.
?S:i16size:
?S: This variable is the
size of an I16 in bytes.
?S:.
?S:u16size:
?S: This variable is the size of an U16 in bytes.
?S:.

```
?S:i32size:
?S: This variable is the size of an I32 in bytes.
?S:.
?S:u32size:
?S: This variable is the size of an U32 in bytes.
?S:.
?S:i64size:
?S: This variable is the size of an I64 in bytes.
?S:.
?S:u64size:
?S: This variable is the size of an U64 in bytes.
?S:.
?S:nvsize:
?S: This variable is the size of a Perl NV in bytes.
?S: Note that some floating point formats have unused bytes.
?S:.
?S:d_nv_preserves_uv:
?S: This variable indicates whether a variable of type nvtype
?S: can preserve all the bits a variable of type uvtype.
?S:.
?S:nv_preserves_uv_bits:
?S: This variable indicates how many of bits type uvtype
?S: a variable nvtype can preserve.
?S:.
?S:nv_overflows_integers_at:
?S: This variable gives the largest integer value that NVs can hold
?S: as a constant floating point expression.
?S: If it could not be determined, it holds the value 0.
?S:.
?S:d_nv_zero_is_allbits_zero:
?S: This
 variable indicates whether a variable of type nvtype
?S: stores 0.0 in memory as all bits zero.
?S:.
?C:IVTYPE:
?C: This symbol defines the C type used for Perl's IV.
?C:.
?C:UVTYPE:
?C: This symbol defines the C type used for Perl's UV.
?C:.
?C:I8TYPE:
?C: This symbol defines the C type used for Perl's I8.
?C:.
?C:U8TYPE:
?C: This symbol defines the C type used for Perl's U8.
?C:.
?C:I16TYPE:
?C: This symbol defines the C type used for Perl's I16.
```

?C:.
?C:U16TYPE:
?C: This symbol defines the C type used for Perl's U16.
?C:.
?C:I32TYPE:
?C: This symbol defines the C type used for Perl's I32.
?C:.
?C:U32TYPE:
?C: This symbol defines the C type used for Perl's U32.
?C:.
?C:I64TYPE:
?C: This symbol defines the C type used for Perl's I64.
?C:.
?C:U64TYPE:
?C: This symbol defines the C type used for Perl's U64.
?C:.
?C:NVTYPE:
?C: This symbol defines the C type used for Perl's NV.
?C:.
?C:IVSIZE:
?C: This symbol contains the sizeof(IV).
?C:.
?C:UVSIZE:
?C: This symbol contains the
 sizeof(UV).
?C:.
?C:I8SIZE:
?C: This symbol contains the sizeof(I8).
?C:.
?C:U8SIZE:
?C: This symbol contains the sizeof(U8).
?C:.
?C:I16SIZE:
?C: This symbol contains the sizeof(I16).
?C:.
?C:U16SIZE:
?C: This symbol contains the sizeof(U16).
?C:.
?C:I32SIZE:
?C: This symbol contains the sizeof(I32).
?C:.
?C:U32SIZE:
?C: This symbol contains the sizeof(U32).
?C:.
?C:I64SIZE:
?C: This symbol contains the sizeof(I64).
?C:.
?C:U64SIZE:

```
?C: This symbol contains the sizeof(U64).
?C:.
?C:NVSIZE:
?C: This symbol contains the sizeof(NV).
?C: Note that some floating point formats have unused bytes.
?C: The most notable example is the x86* 80-bit extended precision
?C: which comes in byte sizes of 12 and 16 (for 32 and 64 bit
?C: platforms, respectively), but which only uses 10 bytes.
?C: Perl compiled with -Duselongdouble on x86* is like this.
?C:.
?C:NV_PRESERVES_UV:
?C: This symbol, if defined, indicates that a variable of type NVTYPE
?C: can preserve all the bits of a variable of type UVTYPE.
?C:.
?C:NV_PRESERVES_UV_BITS:
?C: This
 symbol contains the number of bits a variable of type NVTYPE
?C: can preserve of a variable of type UVTYPE.
?C:.
?C:NV_OVERFLOWS_INTEGERS_AT:
?C: This symbol gives the largest integer value that NVs can hold. This
?C: value + 1.0 cannot be stored accurately. It is expressed as constant
?C: floating point expression to reduce the chance of decimal/binary
?C: conversion issues. If it can not be determined, the value 0 is given.
?C:.
?C:NV_ZERO_IS_ALLBITS_ZERO:
?C: This symbol, if defined, indicates that a variable of type NVTYPE
?C: stores 0.0 in memory as all bits zero.
?C:.
?H:#define IVTYPE  $ivtype  /**/
?H:#define UVTYPE  $uvtype  /**/
?H:#define I8TYPE  $i8type  /**/
?H:#define U8TYPE  $u8type  /**/
?H:#define I16TYPE  $i16type /**/
?H:#define U16TYPE  $u16type /**/
?H:#define I32TYPE  $i32type /**/
?H:#define U32TYPE  $u32type /**/
?H:?%<:#ifdef HAS_QUAD
?H:?%<:#define I64TYPE  $i64type /**/
?H:?%<:#define U64TYPE  $u64type /**/
?H:?%<:#endif
?H:#define NVTYPE  $nvtype  /**/
?H:#define IVSIZE  $ivsize  /**/
?H:#define UVSIZE  $uvsize  /**/
?H:#define I8SIZE  $i8size  /**/
?H:#define U8SIZE  $u8size  /**/
?H:#define I16SIZE  $i16size /**/
?H:#define U16SIZE  $u16size /**/
```

```
?H:#define I32SIZE  $i32size /**/
?H:#define U32SIZE  $u32size /**/
?H:?%<:#ifdef
 HAS_QUAD
?H:?%<:#define I64SIZE  $i64size /**/
?H:?%<:#define U64SIZE  $u64size /**/
?H:?%<:#endif
?H:#define NVSIZE  $nvsize  /**/
?H:#$d_nv_preserves_uv NV_PRESERVES_UV
?H:#define NV_PRESERVES_UV_BITS $nv_preserves_uv_bits
?H:#define NV_OVERFLOWS_INTEGERS_AT ($nv_overflows_integers_at)
?H:#$d_nv_zero_is_allbits_zero NV_ZERO_IS_ALLBITS_ZERO
?H:?%<:#if UVSIZE == 8
?H:?%<:#   ifdef BYTEORDER
?H:?%<:#       if BYTEORDER == 0x1234
?H:?%<:#           undef BYTEORDER
?H:?%<:#           define BYTEORDER 0x12345678
?H:?%<:#       else
?H:?%<:#           if BYTEORDER == 0x4321
?H:?%<:#               undef BYTEORDER
?H:?%<:#               define BYTEORDER 0x87654321
?H:?%<:#
    endif
?H:?%<:#       endif
?H:?%<:#   endif
?H:?%<:#endif
?H:.
?T:xxx
?T:d
?F:!try
: Check basic sizes
echo " "
$echo "Choosing the C types to be used for Perl's internal types..." >&4

case "$use64bitint:$d_quad:$quadtype" in
define:define:?*)
 ivtype="$quadtype"
 uvtype="$uquadtype"
 ivsize=8
 uvsize=8
 ;;
*) ivtype="long"
 uvtype="unsigned long"
 ivsize=$longsize
 uvsize=$longsize
 ;;
esac
```

```
case "$uselongdouble:$d_longdbl" in
define:define)
 nvtype="long double"
 nvsize=$longdblsize
 ;;
*) nvtype=double
 nvsize=$doublesize
 ;;
esac

case "$usequadmath:$i_quadmath" in
define:define)
 nvtype="__float128"
 nvsize=16
 case "$libs" in
 *quadmath*) ;;
 *) $cat <<EOM >&4

*** You requested the use of the quadmath library, but you
*** do not seem to have the quadmath library installed.
*** Cannot continue, aborting.
EOM
   exit 1
   ;;
 esac
 ;;
define:*) $cat <<EOM >&4

*** You requested the use of the quadmath library, but you
*** do not seem to have the required header, <quadmath.h>.
EOM
  case "$gccversion" in
 [23].*|4.[0-5]*)
  $cat <<EOM >&4
*** Your gcc looks a bit old:
*** $gccversion
EOM
   ;;
 ")
  $cat <<EOM >&4
*** You are not running a gcc.
EOM
   ;;
 esac
 $cat <<EOM >&4
*** For the quadmath library you need at least gcc 4.6.
*** Cannot continue, aborting.
EOM
```

```
 exit 1
 ;;
esac

$echo "(IV will be "$ivtype", $ivsize bytes)"
$echo "(UV will be "$uvtype", $uvsize bytes)"
$echo "(NV will be "$nvtype", $nvsize bytes)"

$cat >try.c <<EOCP
#$i_inttypes I_INTTYPES
#ifdef I_INTTYPES
#include <inttypes.h>
#endif
#include <stdio.h>
int main() {
#ifdef INT8
  int8_t i =  INT8_MAX;
 uint8_t u = UINT8_MAX;
 printf("int8_t\n");
#endif
#ifdef INT16
  int16_t i =  INT16_MAX;
 uint16_t u = UINT16_MAX;
 printf("int16_t\n");
#endif
#ifdef INT32
  int32_t i =  INT32_MAX;
 uint32_t u = UINT32_MAX;
 printf("int32_t\n");
#endif
}
EOCP

i8type="signed char"
u8type="unsigned char"
i8size=1
u8size=1

case "$i16type" in
") case "$shortsize" in
 2) i16type=short
  u16type="unsigned
 short"
  i16size=$shortsize
  u16size=$shortsize
  ;;
 esac
 ;;
```

```
esac
case "$i16type" in
") set try -DINT16
 if eval $compile; then
  case "`$run ./try`" in
  int16_t)
   i16type=int16_t
   u16type=uint16_t
   i16size=2
   u16size=2
   ;;
  esac
 fi
 ;;
esac
case "$i16type" in
") if $test $shortsize -ge 2; then
  i16type=short
  u16type="unsigned short"
  i16size=$shortsize
  u16size=$shortsize
 fi
 ;;
esac

case "$i32type" in
") case "$longsize" in
 4) i32type=long
  u32type="unsigned long"
  i32size=$longsize
  u32size=$longsize
  ;;
 *) case "$intsize" in
  4) i32type=int
   u32type="unsigned int"
   i32size=$intsize
   u32size=$intsize
   ;;
  esac
  ;;
 esac
 ;;
esac
case "$i32type" in
") set try -DINT32
 if eval $compile; then
  case "`$run ./try`" in
  int32_t)
```

```
   i32type=int32_t
   u32type=uint32_t
   i32size=4
   u32size=4
   ;;
  esac
 fi
 ;;
esac
case "$i32type" in
") if $test $intsize -ge 4; then
  i32type=int
  u32type="unsigned int"
  i32size=$intsize
  u32size=$intsize
 fi
 ;;
esac

case
 "$i64type" in
") case "$d_quad:$quadtype" in
 define:?*)
  i64type="$quadtype"
  u64type="$uquadtype"
  i64size=8
  u64size=8
  ;;
 esac
 ;;
esac

$echo "Checking how many bits of your UVs your NVs can preserve..." >&4
$cat <<EOP >try.c
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <sys/types.h>
#include <signal.h>
#ifdef SIGFPE
/* volatile so that the compiler has to store it out to memory */
volatile int bletched = 0;
$signal_t blech(int s) { bletched = 1; }
#endif
int main() {
   $uvtype u = 0;
```

```
   $nvtype d;
   int     n = 8 * $uvsize;
   int     i;
#ifdef SIGFPE
   signal(SIGFPE, blech);
#endif

   for (i = 0; i < n; i++) {
     u = u << 1 | ($uvtype)1;
     d = ($nvtype)u;
     if (($uvtype)d != u)
       break;
     if (d <= 0)
 break;
     d = ($nvtype)(u - 1);
     if (($uvtype)d != (u - 1))
       break;
#ifdef SIGFPE
     if (bletched)
 break;
#endif
   }
   printf("%d\n",
 ((i == n) ? -n : i));
   exit(0);
}
EOP
set try

d_nv_preserves_uv="$undef"
if eval $compile; then
 nv_preserves_uv_bits="`$run ./try`"
fi
case "$nv_preserves_uv_bits" in
\-[1-9]*)
 nv_preserves_uv_bits=`expr 0 - $nv_preserves_uv_bits`
 $echo "Your NVs can preserve all $nv_preserves_uv_bits bits of your UVs."  >&4
 d_nv_preserves_uv="$define"
 ;;
[1-9]*) $echo "Your NVs can preserve only $nv_preserves_uv_bits bits of your UVs."  >&4
 d_nv_preserves_uv="$undef" ;;
*) $echo "Can't figure out how many bits your NVs preserve." >&4
 nv_preserves_uv_bits="0" ;;
esac
$rm_try

$echo "Checking to find the largest integer value your NVs can hold..." >&4
$cat <<EOP >try.c
```

```
#include <stdio.h>

typedef $nvtype NV;

int
main() {
 NV value = 2;
 int count = 1;

 while(count < 256) {
   /* volatile so that the compiler has to store it out to memory */
   volatile NV up = value + 1.0;
   volatile NV negated = -value;
   volatile NV down = negated - 1.0;
   volatile NV got_up = up -
 value;
   int up_good = got_up == 1.0;
   int got_down = down - negated;
   int down_good = got_down == -1.0;

   if (down_good != up_good) {
     fprintf(stderr,
       "Inconsistency - up %d %f; down %d %f; for 2**%d (%.20f)\n",
       up_good, (double) got_up, down_good, (double) got_down,
       count, (double) value);
     return 1;
   }
   if (!up_good) {
     while (1) {
 if (count > 8) {
   count -= 8;
   fputs("256.0", stdout);
 } else {
   count--;
   fputs("2.0", stdout);
 }
 if (!count) {
   puts("");
   return 0;
 }
 fputs("*", stdout);
     }
   }
   value *= 2;
   ++count;
 }
 fprintf(stderr, "Cannot overflow integer range, even at 2**%d (%.20f)\n",
   count, (double) value);
```

```
 return 1;
}
EOP
set try

nv_overflows_integers_at='0'
if eval $compile; then
   xxx="`$run ./try`"
   case "$?" in
 0)
     case "$xxx" in
  2*)  cat >&4 <<EOM
The largest integer your NVs can preserve is equal to $xxx
EOM
      nv_overflows_integers_at="$xxx"
      ;;
  *)  cat
 >&4 <<EOM
Cannot determine the largest integer value your NVs can hold, unexpected output
'$xxx'
EOM
      ;;
     esac
     ;;
 *)  cat >&4 <<EOM
Cannot determine the largest integer value your NVs can hold
EOM
     ;;
   esac
fi
$rm_try

$echo "Checking whether NV 0.0 is all bits zero in memory..." >&4
$cat <<EOP >try.c
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <string.h>
#include <sys/types.h>
#include <signal.h>
#ifdef SIGFPE
/* volatile so that the compiler has to store it out to memory */
volatile int bletched = 0;
$signal_t blech(int s) { bletched = 1; }
#endif
```

```
int checkit($nvtype d, const char *where) {
   void *v = &d;
   unsigned char *p = (unsigned char *)v;
   unsigned char *end = p + sizeof(d);
   int fail = 0;

   while (p < end)
 fail += *p++;

   if (!fail)
 return 0;

   p = (unsigned char *)v;
   printf("No - %s: 0x", where);
   while (p < end)
 printf ("%02X", *p++);
   printf("\n");
   return 1;
}

int main(int
 argc, char **argv) {
   $nvtype d = 0.0;
   int fail = 0;
   fail += checkit(d, "0.0");

   /* The compiler shouldn't be assuming that bletched is 0  */
   d = bletched;

   fail += checkit(d, "bleched");

#ifdef SIGFPE
   signal(SIGFPE, blech);
#endif

   /* Paranoia - the compiler should have no way of knowing that ANSI says
      that argv[argc] will always be NULL.  Actually, if it did assume this it
      would be buggy, as this is C and main() can be called from elsewhere in
      the program.  */
   d = argv[argc] ? 1 : 0;

   if (d) {
 printf("Odd argv[argc]=%p, d=%g\n", argv[argc], d);
   }

   fail += checkit(d, "ternary");

   memset(&d, sizeof(d), argv[argc] ? 1 : 0);
```

```
   if (d != 0.0) {
 printf("No - memset doesn't give 0.0\n");
 /* This might just blow up:  */
 printf("(gives %g)\n", d);
 return 1;
   }

#ifdef SIGFPE
   if (bletched) {
 printf("No - something bleched\n");
 return 1;
   }
#endif
   if (fail) {
     printf("No - %d fail(s)\n",
 fail);
     return 1;
   }
   printf("Yes\n");
   return 0;
}
EOP
set try

d_nv_zero_is_allbits_zero="$undef"
if eval $compile; then
   xxx="`$run ./try`"
   case "$?" in
 0)
     case "$xxx" in
  Yes)  cat >&4 <<EOM
0.0 is represented as all bits zero in memory
EOM
      d_nv_zero_is_allbits_zero="$define"
      ;;
  *)  cat >&4 <<EOM
0.0 is not represented as all bits zero in memory
EOM
      d_nv_zero_is_allbits_zero="$undef"
      ;;
     esac
     ;;
 *)  cat >&4 <<EOM
0.0 is not represented as all bits zero in memory
EOM
     d_nv_zero_is_allbits_zero="$undef"
     ;;
```

```
   esac
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/perlxv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_malloc.U,v 3.1 2003/01/21 18:51:51 merijn Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: i_malloc.U,v $
?RCS: Revision 3.1  2003/01/21  18:51:51  merijn
?RCS: Moved to modified: Ihdr replaced with Compile
?RCS:
?RCS: $Log: i_malloc.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:21  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_malloc: cat rm_try Compile Setvar i_mallocmalloc
?MAKE: -pick add $@ %<
?S:i_malloc:
?S: This variable conditionally defines the I_MALLOC symbol, and indicates
?S: whether a C program should include <malloc.h>.
?S:.
?C:I_MALLOC:
?C: This
 symbol, if defined, indicates to the C program that it should
?C: include <malloc.h>.
?C:.
?H:#$i_malloc I_MALLOC  /**/
?H:.
?LINT:set i_malloc
: see if this is a malloc.h system
: we want a real compile instead of Inhdr because some systems have a
: malloc.h that just gives a compile error saying to use stdlib.h instead
echo " "
$cat >try.c <<EOCP
#include <stdlib.h>
#include <malloc.h>
```

```
#$i_mallocmalloc I_MALLOCMALLOC
#ifdef I_MALLOCMALLOC
# include <malloc/malloc.h>
#endif

int main () { return 0; }
EOCP
set try
if eval $compile; then
   echo "<malloc.h> found." >&4
   val="$define"
else
   echo "<malloc.h> NOT found." >&4
   val="$undef"
fi
$rm_try
set i_malloc
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_malloc.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: scriptdir.U,v $
?RCS: Revision 3.0.1.3  1995/09/25  09:17:15  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:46:13  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:32:04  ram
?RCS: patch32: now uses installation prefix
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:scriptdir scriptdirexp installscript:
```

```
 afs cat test Getfile Loc \
 Oldconfig +bin Prefixit prefixexp Prefixup
?MAKE: -pick add $@ %<
?Y:TOP
?S:scriptdir:
?S: This variable holds the name of the directory in which the user wants
?S: to put publicly scripts for the package in question.  It is either
?S: the same directory as for binaries, or a special one that can be
?S: mounted across different architectures, like /usr/share. Programs
?S: must be prepared to deal with ~name expansion.
?S:.
?S:scriptdirexp:
?S: This variable is the same as scriptdir, but is filename expanded
?S: at configuration time, for programs not wanting to bother with it.
?S:.
?S:installscript:
?S: This variable is usually the same as scriptdirexp, unless you are on
?S: a system running AFS, in which case they may differ slightly. You
?S: should always use this variable within your makefiles for portability.
?S:.
?C:SCRIPTDIR:
?C: This symbol holds the name of the directory in which the user wants
?C: to put publicly executable scripts for the
 package in question.  It
?C: is often a directory that is mounted across diverse architectures.
?C: Programs must be prepared to deal with ~name expansion.
?C:.
?C:SCRIPTDIR_EXP:
?C: This is the same as SCRIPTDIR, but is filename expanded at
?C: configuration time, for use in programs not prepared to do
?C: ~name substitutions at run-time.
?C:.
?H:#define SCRIPTDIR "$scriptdir" /**/
?H:#define SCRIPTDIR_EXP "$scriptdirexp" /**/
?H:.
: determine where public executable scripts go
set scriptdir scriptdir
eval $prefixit
case "$scriptdir" in
")
 dflt="$bin"
 : guess some guesses
 $test -d /usr/share/scripts && dflt=/usr/share/scripts
 $test -d /usr/share/bin && dflt=/usr/share/bin
 $test -d /usr/local/script && dflt=/usr/local/script
 $test -d $prefixexp/script && dflt=$prefixexp/script
 set dflt
 eval $prefixup
```

```
 ;;
*)  dflt="$scriptdir"
 ;;
esac
$cat <<EOM

Some installations have a separate directory just for executable scripts so
that they can mount it across multiple architectures but
 keep the scripts in
one spot.  You might, for example, have a subdirectory of /usr/share for this.
Or you might just lump your scripts in with all your other executables.

EOM
fn=d~
rp='Where do you keep publicly executable scripts?'
. ./getfile
if $test "X$ansexp" != "X$scriptdirexp"; then
 installscript=''
fi
scriptdir="$ans"
scriptdirexp="$ansexp"
if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
scripts reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installscript" in
 '') dflt=`echo $scriptdirexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installscript";;
 esac
 fn=de~
 rp='Where will public scripts be installed?'
 . ./getfile
 installscript="$ans"
else
 installscript="$scriptdirexp"
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/scriptdir.U
No license file was found, but licenses were detected in source scan.

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?RCS: License or the Artistic License, as specified in the README file.

```
?RCS:
?MAKE:d_fdim: Inlibc
?MAKE: -pick add $@ %<
?S:d_fdim:
?S: This variable conditionally defines the HAS_FDIM symbol, which
?S: indicates to the C program that the fdim() routine is available.
?S:.
?C:HAS_FDIM:
?C: This symbol, if defined, indicates that the fdim routine is
?C: available to do the positive difference function.
?C:.
?H:#$d_fdim HAS_FDIM  /**/
?H:.
?LINT:set d_fdim
: see if fdim exists
set fdim d_fdim
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fdim.U
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```
?RCS: $Id: d_msync.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msync.U,v $
?RCS: Revision 3.0.1.1  1993/12/15  08:19:17  ram
?RCS: patch15: created
?RCS:
?MAKE:d_msync: Inlibc
?MAKE: -pick add $@ %<
?S:d_msync:
?S: This variable conditionally defines HAS_MSYNC if msync() is
?S: available to synchronize a mapped file.
?S:.
?C:HAS_MSYNC:
?C: This symbol, if defined, indicates that the msync system call is
?C: available to synchronize a mapped file.
?C:.
?H:#$d_msync HAS_MSYNC  /**/
```

```
?H:.
?LINT:set d_msync
: see if
 msync exists
set msync d_msync
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_msync.U
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```
?RCS: $Id: Mkdirp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extract.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  14:58:52  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:51:46  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which can launched to create a
?X: directory path like "mkdir -p" would do.
?X:
?MAKE:Mkdirp:
 eunicefix startsh
?MAKE: -pick add $@ %<
?F:./mkdirp
?T:name create file
: script used to emulate mkdir -p
cat >mkdirp <<EOS
$startsh
EOS
cat >>mkdirp <<'EOS'
name=$1;
create="";
```

```
while test $name; do
 if test ! -d "$name"; then
  create="$name $create"
  name=`echo $name | sed -e "s|^[^/]*$||"`
  name=`echo $name | sed -e "s|\(.*\)/.*|\1|"`
 else
  name=""
 fi
done
for file in $create; do
 mkdir $file
done
EOS
chmod +x mkdirp
$eunicefix mkdirp
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Mkdirp.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: charorder.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:07:08  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:33  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:chorder_int chorder_short chorder_long: Myread cat +cc +ccflags rm
?MAKE: -pick add $@ %<
?S:chorder_short (d_cos d_bos):
?S: Holds the value describing the byte ordering of characters in a short.
?S: On a Big-Endian machine, that would be "c0c1".
?S:.
?S:chorder_int
 (charoder):
?S: Holds the value describing the byte ordering of characters in an int.
?S: For instance, on a Big-Endian machine, this would be: "c0c1c2c3".
```

```
?S:.
?S:chorder_long (d_col d_bol):
?S: Holds the value describing the byte ordering of characters in a long.
?S: On a 64 bits Big-Endian machine, that would yield: "c0c1c2c3c4c5c6c7".
?S:.
?C:CHAR_ORDER_SHORT:
?C: Holds the byte ordering of characters in a short. It's a string
?C: value like "c0c1" on a Big-Endian machine.
?C:.
?C:CHAR_ORDER_INT:
?C: Holds the byte ordering of characters in an int. It's a string
?C: value like "c0c1c2c3" on a Big-Endian machine.
?C:.
?C:CHAR_ORDER_LONG:
?C: Holds the byte ordering of characters in a long. It's a string
?C: value like "c0c1c2c3c4c5c6c7" on a 64 bits Big-Endian machine.
?C:.
?H:#define CHAR_ORDER_SHORT "$chorder_short" /* byte order in a short */
?H:#define CHAR_ORDER_INT "$chorder_int" /* byte order in an int */
?H:#define CHAR_ORDER_LONG "$chorder_long" /* byte order in a long */
?H:.
?F:!byteorder
:
 check for character ordering
echo " "
echo "Checking out byte order..." >&4
$cat >byteorder.c <<'EOCP'
#include <stdio.h>

main(argc, argv)
 int argc;
 char *argv[]; {
 int i;
 int max;
 union {
  short u_s;
  int u_i;
  long u_l;
  char u_c[sizeof(long)];
 } u;
 switch (argv[1][0]) {
 case 'l':
  u.u_l = 0L;
  /* HMS: ASSERT: sizeof(long) < 10. */
  for(i = 0; i < sizeof(long); ++i) {
   u.u_l *= 0x100L;
   u.u_l += (0xc0 + i);
  }
```

```
  max = sizeof(long);
  break;
 case 's':
  u.u_s = 0;
  /* HMS: ASSERT: sizeof(short) < 10. */
  for(i = 0; i < sizeof(short); ++i) {
   u.u_s *= 0x100L;
   u.u_s += (0xc0 + i);
  }
  max = sizeof(short);
  break;
 case 'i':
  u.u_i = 0;
  /* RAM: ASSERT: sizeof(int) < 10. */
  for(i = 0; i < sizeof(int); ++i) {
   u.u_l *= 0x100L;
   u.u_l += (0xc0 + i);
  }
  max = sizeof(int);
  break;
 default:
  max = 0;
  break;
 }
 for(i = 0; i < max; i++) {
  printf("%x", u.u_c[i] & 0x00FF);
 }
 printf("\n");
 exit(0);
}
EOCP
if $cc $ccflags -o
 byteorder byteorder.c >/dev/null 2>&1 ; then
 : null statement
@if chorder_short
   chorder_short=`./byteorder s`
@end
@if chorder_int
   chorder_int=`./byteorder i`
@end
@if chorder_long
   chorder_long=`./byteorder l`
@end
else
 $cat <<EOM
(I can't seem to get my test program to work.  Guessing 32 bits big-endian.)
EOM
   chorder_short="c0c1"
```

```
  chorder_int="c0c1c2c3"
  chorder_long="c0c1c2c3"
fi
@if chorder_short
dflt=$chorder_short
rp='What is the order of characters in a short?'
. ./myread
chorder_short="$ans"
@end
@if chorder_int
dflt=$chorder_int
rp='What is the order of characters in an int?'
. ./myread
chorder_int="$ans"
@end
@if chorder_long
dflt=$chorder_long
rp='What is the order of characters in a long?'
. ./myread
chorder_long="$ans"
@end
$rm -f byteorder* core
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/charorder.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_shmget.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_shmget.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:20  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_shmget: Inlibc
?MAKE: -pick add $@ %<
?S:d_shmget:
?S: This variable conditionally defines the HAS_SHMGET symbol, which
?S: indicates to the C program that the shmget() routine is available.
?S:.
```

```
?C:HAS_SHMGET:
?C: This symbol, if defined, indicates that the shmget() routine is
?C: available to request a shared memory segment from
 the kernel.
?C:.
?H:#$d_shmget HAS_SHMGET  /**/
?H:.
?LINT:set d_shmget
: see if shmget exists
set shmget d_shmget
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_shmget.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2021, H.Merijn Brand & Tony Cook
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:st_dev_size st_dev_sign: cat echo i_stdlib Setvar Compile run rm_try
?MAKE: -pick add $@ %<
?S:st_dev_sign:
?S: This variable contains the signedness of struct stat's st_dev.
?S: 1 for unsigned, -1 for signed.
?S:.
?S:st_dev_size:
?S: This variable contains the size of struct stat's st_dev in bytes.
?S:.
?C:ST_DEV_SIZE:
?C: This variable contains the size of struct stat's st_dev in bytes.
?C:.
?C:ST_DEV_SIGN:
?C: This symbol holds the signedness of struct stat's st_dev.
?C: 1 for unsigned, -1 for signed.
?C:.
?H:#define ST_DEV_SIGN
 $st_dev_sign /* st_dev sign */
?H:#define ST_DEV_SIZE $st_dev_size /* st_dev size */
?H:.
?F:!try
: Check the size of st_dev
$echo " "
```

```
$echo "Checking the size of st_dev..." >&4
$cat > try.c <<EOCP
#include <sys/stat.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() {
   struct stat st;
   printf("%d\n", (int)sizeof(st.st_dev));
   exit(0);
}
EOCP
set try
if eval $compile_ok; then
 val=`$run ./try`
 case "$val" in
 ") st_dev_size=4
  $echo "(I can't execute the test program--guessing $st_dev_size.)" >&4
  ;;
 *) st_dev_size=$val
  $echo "Your st_dev is $st_dev_size bytes long."
  ;;
 esac
else
 st_dev_size=4
 $echo "(I can't compile the test program--guessing $st_dev_size.)" >&4
fi
$rm_try

: Check if st_dev is signed
$echo " "
$echo "Checking the sign of st_dev..." >&4
$cat > try.c <<EOCP
#include <sys/stat.h>
#include <stdio.h>
int main() {
 struct stat foo;
       foo.st_dev = -1;
 if (foo.st_dev < 0)
  printf("-1\n");
 else
  printf("1\n");
}
EOCP
set
```

```
 try
if eval $compile; then
 val=`$run ./try`
 case "$val" in
 ") st_dev_sign=1
  $echo "(I can't execute the test program--guessing unsigned.)" >&4
  ;;
 *) st_dev_sign=$val
  case "$st_dev_sign" in
   1) $echo "Your st_dev is unsigned." ;;
  -1) $echo "Your st_dev is signed."   ;;
  esac
  ;;
 esac
else
 st_dev_sign=1
 $echo "(I can't compile the test program--guessing unsigned.)" >&4
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/st_dev_def.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: mallocsrc.U,v 3.0.1.2 1997/02/28 16:10:26 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: mallocsrc.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:10:26  ram
?RCS: patch61: added support for Free_t, the type of free()
?RCS: patch61: replaced .o with $_o all over the place
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:10:46  ram
?RCS: patch23: added support for MYMALLOC, mainly  for perl5 (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:12  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:mallocsrc mallocobj usemallocwrap usemymalloc
```

```
 malloctype d_mymalloc \
 freetype: Myread \
 Oldconfig package Guess Setvar rm cat +cc +ccflags Findhdr \
 i_malloc i_stdlib sed libs _o ptrsize useithreads
?MAKE: -pick add $@ %<
?X: Put near top so that other tests don't erroneously include
?X: -lmalloc.  --AD  22 June 1998
?Y:TOP
?S:usemymalloc:
?S: This variable contains y if the malloc that comes with this package
?S: is desired over the system's version of malloc.  People often include
?S: special versions of malloc for efficiency, but such versions are often
?S: less portable.  See also mallocsrc and mallocobj.
?S: If this is 'y', then -lmalloc is removed from $libs.
?S:.
?S:usemallocwrap:
?S: This variable contains y if we are wrapping malloc to prevent
?S: integer overflow during size calculations.
?S:.
?S:mallocsrc:
?S: This variable contains the name of the malloc.c that comes with
?S: the package, if that malloc.c is preferred over the system malloc.
?S: Otherwise the value is null.  This variable is intended for generating
?S: Makefiles.
?S:.
?S:d_mymalloc:
?S: This
 variable conditionally defines MYMALLOC in case other parts
?S: of the source want to take special action if MYMALLOC is used.
?S: This may include different sorts of profiling or error detection.
?S:.
?S:mallocobj:
?S: This variable contains the name of the malloc.o that this package
?S: generates, if that malloc.o is preferred over the system malloc.
?S: Otherwise the value is null.  This variable is intended for generating
?S: Makefiles.  See mallocsrc.
?S:.
?S:freetype:
?S: This variable contains the return type of free().  It is usually
?S: void, but occasionally int.
?S:.
?S:malloctype:
?S: This variable contains the kind of ptr returned by malloc and realloc.
?S:.
?C:Free_t:
?C: This variable contains the return type of free().  It is usually
?C: void, but occasionally int.
?C:.
```

```
?C:Malloc_t (MALLOCPTRTYPE):
?C: This symbol is the type of pointer returned by malloc and realloc.
?C:.
?H:#define Malloc_t $malloctype   /**/
?H:#define Free_t
 $freetype   /**/
?H:.
?C:PERL_MALLOC_WRAP:
?C: This symbol, if defined, indicates that we'd like malloc wrap checks.
?C:.
?H:#$usemallocwrap PERL_MALLOC_WRAP  /**/
?H:.
?C:MYMALLOC:
?C: This symbol, if defined, indicates that we're using our own malloc.
?C:.
?H:#$d_mymalloc MYMALLOC   /**/
?H:.
?LINT:extern usedevel
?LINT:change libs
?X: Cannot test for mallocsrc; it is the unit's name and there is a bug in
?X: the interpreter which defines all the names, even though they are not used.
@if mallocobj
: determine whether to use malloc wrapping
echo " "
case "$usemallocwrap" in
[yY]*|true|$define) dflt='y' ;;
[nN]*|false|$undef) dflt='n' ;;
*) case "$usedevel" in
 [yY]*|true|$define) dflt='y' ;;
 *) dflt='n' ;;
 esac
 ;;
esac
rp="Do you wish to wrap malloc calls to protect against potential overflows?"
. ./myread
usemallocwrap="$ans"
case "$ans" in
y*|true)
 usemallocwrap="$define" ;;
*)
 usemallocwrap="$undef" ;;
esac

: determine which malloc to compile in
echo " "
case "$usemymalloc"
 in
[yY]*|true|$define) dflt='y' ;;
```

```
[nN]*|false|$undef) dflt='n' ;;
*) case "$ptrsize" in
 4) dflt='y' ;;
 *) dflt='n' ;;
 esac
 if test "$useithreads" = "$define"; then dflt='n'; fi
 ;;
esac
rp="Do you wish to attempt to use the malloc that comes with $package?"
. ./myread
usemymalloc="$ans"
case "$ans" in
y*|true)
 usemymalloc='y'
 mallocsrc='malloc.c'
 mallocobj="malloc$_o"
 d_mymalloc="$define"
?X: Maybe libs.U should be dependent on mallocsrc.U, but then
?X: most packages that use dist probably don't supply their own
?X: malloc, so this is probably an o.k. compromise
 case "$libs" in
 *-lmalloc*)
  : Remove malloc from list of libraries to use
  echo "Removing unneeded -lmalloc from library list" >&4
  set `echo X $libs | $sed -e 's/-lmalloc / /' -e 's/-lmalloc$//'`
  shift
  libs="$*"
  echo "libs = $libs" >&4
  ;;
 esac
 ;;
*)
 usemymalloc='n'
 mallocsrc=''
 mallocobj=''
 d_mymalloc="$undef"
 ;;
esac

@end
@if MALLOCPTRTYPE || Malloc_t || Free_t
: compute the return types of
 malloc and free
echo " "
$cat >malloc.c <<END
#$i_malloc I_MALLOC
#$i_stdlib I_STDLIB
#include <stdio.h>
```

```
#include <sys/types.h>
#ifdef I_MALLOC
#include <malloc.h>
#endif
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#ifdef TRY_MALLOC
void *malloc();
#endif
#ifdef TRY_FREE
void free();
#endif
END
@if MALLOCPTRTYPE || Malloc_t
case "$malloctype" in
")
 if $cc $ccflags -c -DTRY_MALLOC malloc.c >/dev/null 2>&1; then
  malloctype='void *'
 else
  malloctype='char *'
 fi
 ;;
esac
echo "Your system wants malloc to return '$malloctype', it would seem." >&4
@end

@if Free_t
case "$freetype" in
")
 if $cc $ccflags -c -DTRY_FREE malloc.c >/dev/null 2>&1; then
  freetype='void'
 else
  freetype='int'
 fi
 ;;
esac
echo "Your system uses $freetype free(), it would seem." >&4
@end
$rm -f malloc.[co]
@end
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/mallocsrc.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: vendorhtml3dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $

```
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorhtml3dir.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorhtml3dir vendorhtml3direxp installvendorhtml3dir: html3dir Getfile \
 Oldconfig Setprefixvar Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorhtml3dir:
?S: This variable contains the name of the directory for html
?S: library pages.  It may have a ~ on the front.
?S: The standard distribution will put nothing
 in this directory.
?S: Vendors who distribute perl may wish to place their own
?S: html pages for modules and extensions in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorhtml3direxp:
?S: This variable is the ~name expanded version of vendorhtml3dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorhtml3dir="
?S:installvendorhtml3dir:
?S: This variable is really the same as vendorhtml3direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorhtml3dir
: Set the vendorhtml3dir variables
case "$vendorprefix" in
") vendorhtml3dir="
 vendorhtml3direxp="
 ;;
*) : determine where vendor-supplied module html pages go.
 : There is no standard location, so try to copy the previously-selected
 : directory structure for the core html pages.
 : XXX Better default
```

```
 suggestions would be welcome.
 case "$vendorhtml3dir" in
 ") dflt=`echo "$html3dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
 *) dflt=$vendorhtml3dir ;;
 esac
 case "$dflt" in
 "|' ') dflt=none ;;
 esac
 fn=dn+~
 rp='Pathname for the vendor-supplied html pages?'
 . ./getfile
 vendorhtml3dir="$ans"
 vendorhtml3direxp="$ansexp"
 ;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorhtml3dir" = "X" && vendorhtml3dir=' '
prefixvar=vendorhtml3dir
. ./installprefix
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/vendorhtml3dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setegid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setegid.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setegid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setegid:
?S: This variable conditionally defines the HAS_SETEGID symbol, which
?S: indicates to the C program that the setegid() routine is available
?S: to change the effective gid of the current program.
?S:.
?C:HAS_SETEGID (SETEGID):
?C: This symbol, if defined, indicates that the setegid
```

```
 routine is available
?C: to change the effective gid of the current program.
?C:.
?H:#$d_setegid HAS_SETEGID  /**/
?H:.
?LINT:set d_setegid
: see if setegid exists
set setegid d_setegid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setegid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: registers.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: registers.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:19:41  ram
?RCS: patch61: removed empty ?LINT lines
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:28:33  ram
?RCS: patch36: call ./Cppsym explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:41  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:registers reg1 reg2 reg3 reg4 reg5 reg6 reg7 reg8 reg9 reg10 reg11 \
 reg12 reg13 reg14 reg15 reg16: awk rm Cppsym
 Myread Oldconfig
?MAKE: -pick add $@ %<
?S:registers:
?S: This variable contains the number of register declarations paid
?S: attention to by the C compiler.
?S:.
?S:reg1:
?S: This variable, along with reg2, reg3, etc. contains the eventual
?S: value for the symbols register1, register2, register3, etc.  It has
?S: either the value "register" or is null.
?S:.
```

```
?C:register1:
?C: This symbol, along with register2, register3, etc. is either the word
?C: "register" or null, depending on whether the C compiler pays attention
?C: to this many register declarations.  The intent is that you don't have
?C: to order your register declarations in the order of importance, so you
?C: can freely declare register variables in sub-blocks of code and as
?C: function parameters.  Do not use register<n> more than once per routine.
?C:.
?LINT:describe reg2 reg3 reg4 reg5 reg6 reg7 reg8 reg9 reg10 reg11
?LINT:describe reg12 reg13 reg14 reg15 reg16
?LINT:known register2 register3 register4 register5 register6
 register7
?LINT:known register8 register9 register10 register11 register12 register13
?LINT:known register14 register15 register16
?H:#define register1 $reg1  /**/
?H:#define register2 $reg2  /**/
?H:#define register3 $reg3  /**/
?H:#define register4 $reg4  /**/
?H:#define register5 $reg5  /**/
?H:#define register6 $reg6  /**/
?H:#define register7 $reg7  /**/
?H:#define register8 $reg8  /**/
?H:#define register9 $reg9  /**/
?H:#define register10 $reg10 /**/
?H:#define register11 $reg11 /**/
?H:#define register12 $reg12 /**/
?H:#define register13 $reg13 /**/
?H:#define register14 $reg14 /**/
?H:#define register15 $reg15 /**/
?H:#define register16 $reg16 /**/
?H:.
?F:!.foo
: see how many register declarations we want to use
case "$registers" in
")
 if ./Cppsym vax; then
  dflt=6
 elif ./Cppsym sun mc68000 mips; then
  dflt=10
 elif ./Cppsym pyr; then
  dflt=14
 elif ./Cppsym ns32000 ns16000; then
  dflt=5
 elif ./Cppsym $smallmach; then
  dflt=3
 else
  : if you have any other numbers
```

```
 for me, please send them in
  dflt=6
 fi;;
*) dflt=$registers ;;
esac
?LINT:set reg2 reg3 reg4 reg5 reg6 reg7 reg8 reg9 reg10 reg11
?LINT:set reg12 reg13 reg14 reg15 reg16
cat <<EOM

Different C compilers on different machines pay attention to different numbers
of register declarations.  About how many register declarations in each routine
does your C compiler pay attention to?  (OK to guess)

EOM
rp="Maximum register declarations?"
. ./myread
registers=$ans
reg1="
$awk "BEGIN { for (i=1; i<=16; i++) printf \"reg%d="\n\", i}" \
 </dev/null >.foo
. ./.foo
$awk "BEGIN { for (i=1; i<=$registers; i++) printf \"reg%d=register\n\", i}" \
 </dev/null >.foo
. ./.foo
$rm -f .foo
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/registers.U
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```
?RCS: $Id$
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: perlpath.U,v $
?RCS: Revision 3.0.1.2  1995/09/25  09:17:04  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:33:53  ram
?RCS: patch45: can now use Loc variables since path stripping is deferred
?RCS:
```

```
?RCS: Revision 3.0  1993/08/18  12:09:32  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this unit is to locate perl good enough to construct a #!
?X:
?MAKE:perlpath: Getfile Oldconfig Loc perl
?MAKE: -pick
 add $@ %<
?Y:TOP
?S:perlpath:
?S: This variable contains the eventual value of the PERLPATH symbol,
?S: which contains the absolute location of the perl interpreter.
?S:.
?C:PERLPATH:
?C: This symbol contains the absolute location of the perl interpreter.
?C:.
?H:#define PERLPATH "$perlpath"  /**/
?H:.
: determine perl absolute location
case "$perlpath" in
")
 if test -f /usr/bin/perl; then
  dflt=/usr/bin/perl
 else
  case "$perl" in
  */*) dflt="$perl";;
  *) dflt=/usr/bin/perl;;
  esac
 fi
 ;;
*)  dflt="$perlpath"
 ;;
esac
echo " "
fn=f~/
rp="Where is perl located on your system?"
. ./getfile
perlpath="$ans"
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/perlpath.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: html1dir.U,v $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: html1dir.U,v $
?RCS:
?MAKE:html1dir html1direxp installhtml1dir: cat Loc Myread \
 spackage test Getfile Setprefixvar Prefixit Prefixup
?MAKE: -pick add $@ %<
?Y:TOP
?D:html1dir=''
?S:html1dir:
?S: This variable contains the name of the directory in which html
?S: source pages are to be put.  This directory is for pages
?S: that describe whole programs, not libraries or modules.  It
?S: is intended to correspond roughly to section 1 of the Unix
?S: manuals.
?S:.
?D:html1direxp=''
?S:html1direxp:
?S: This
 variable is the same as the html1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installhtml1dir=''
?S:installhtml1dir:
?S: This variable is really the same as html1direxp, unless you are
?S: using a different installprefix.  For extra portability, you
?S: should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set html1direxp
?LINT:set installhtml1dir
: determine where html pages for programs go
set html1dir html1dir none
eval $prefixit
$cat <<EOM

If you wish to install html files for programs in $spackage, indicate
the appropriate directory here.  To skip installing html files,
answer "none".
EOM
case "$html1dir" in
''|none|$undef|' ') dflt=none ;;
*) dflt=$html1dir ;;
```

```
esac
fn=dn+~
rp="Directory for the main $spackage html pages?"
. ./getfile
prefixvar=html1dir
. ./setprefixvar
: Use ' ' for none so value is preserved next time through Configure
$test X"$html1dir" = "X" && html1dir=' '

Found
 in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/html1dir.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_modfl d_modflproto: Inlibc Compile Hasproto cat \
 test ccflags uselongdouble \
 d_sqrtl d_aintl d_copysignl d_ilogbl d_scalbnl d_frexpl d_ldexpl \
 d_truncl
?MAKE: -pick add $@ %<
?S:d_modfl:
?S: This variable conditionally defines the HAS_MODFL symbol, which
?S: indicates to the C program that the modfl() routine is available.
?S:.
?S:d_modflproto:
?S: This symbol, if defined, indicates that the system provides
?S: a prototype for the modfl() function.  Otherwise, it is up
?S: to the program to supply one.  C99 says it should be
?S:  long double modfl(long double, long double *);
?S:.
?C:HAS_MODFL:
?C: This symbol, if defined, indicates that the modfl routine is
?C: available to split a long double
 x into a fractional part f and
?C: an integer part i such that |f| < 1.0 and (f + i) = x.
?C:.
?C:HAS_MODFL_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the modfl() function.  Otherwise, it is up
?C: to the program to supply one.
?C:.
```

```
?H:#$d_modfl HAS_MODFL  /**/
?H:#$d_modflproto HAS_MODFL_PROTO  /**/
?H:.
?T:message
?LINT:set d_modfl
?LINT:set d_modflproto
?LINT:change ccflags
: see if modfl exists
set modfl d_modfl
eval $inlibc

: see if prototype for modfl is available
echo " "
set d_modflproto modfl define math.h
eval $hasproto

if $test "$uselongdouble" = "$define"; then
   message=""
   if $test "$d_sqrtl" != "$define"; then
 message="$message sqrtl"
   fi
   if $test "$d_modfl" != "$define"; then
 if $test "$d_truncl:$d_copysignl" = "$define:$define"; then
     echo "You have both truncl and copysignl, so I can emulate modfl."
 else
     if $test "$d_aintl:$d_copysignl" = "$define:$define"; then
  echo "You have both aintl
 and copysignl, so I can emulate modfl."
     else
  message="$message modfl"
     fi
 fi
   fi
   if $test "$d_frexpl" != "$define"; then
 if $test "$d_ilogbl:$d_scalbnl" = "$define:$define"; then
     echo "You have both ilogbl and scalbnl, so I can emulate frexpl."
 else
     message="$message frexpl"
 fi
   fi
   if $test "$d_ldexpl" != "$define"; then
 message="$message ldexpl"
   fi

   if $test "$message" != ""; then
 $cat <<EOM >&4

*** You requested the use of long doubles but you do not seem to have
```

```
*** the following mathematical functions needed for long double support:
***    $message
*** Please rerun Configure without -Duselongdouble and/or -Dusemorebits.
*** Cannot continue, aborting.

EOM

 exit 1
   fi
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_modfl.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_lgamma_r: Inlibc
?MAKE: -pick add $@ %<
?S:d_lgamma_r:
?S: This variable conditionally defines the HAS_LGAMMA_R symbol, which
?S: indicates to the C program that the lgamma_r() routine is available
?S: for the log gamma function, without using the global signgam variable.
?S:.
?C:HAS_LGAMMA_R:
?C: This symbol, if defined, indicates that the lgamma_r routine is
?C: available to do the log gamma function without using the global
?C: signgam variable.
?C:.
?H:#$d_lgamma_r HAS_LGAMMA_R  /**/
?H:.
?LINT:set d_lgamma_r
: see if lgamma_r exists
set lgamma_r d_lgamma_r
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_lgamma_r.U
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```
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```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sanemcmp.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:41:19  ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_sanemcmp: cat d_memcmp +cc +optimize +ccflags +libs +ldflags rm \
 i_memory i_stdlib i_string i_unistd Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_sanemcmp:
?S: This variable conditionally defines the HAS_SANE_MEMCMP symbol if
?S: the memcpy() routine is available and can be used to compare relative
?S: magnitudes of chars with their high bits set.
?S:.
?C:HAS_SANE_MEMCMP:
?C: This symbol,
 if defined, indicates that the memcmp routine is available
?C: and can be used to compare relative magnitudes of chars with their high
?C: bits set.  If it is not defined, roll your own version.
?C:.
?H:#$d_sanemcmp HAS_SANE_MEMCMP /**/
?H:.
?F:!sanemcmp
?LINT: set d_sanemcmp
: can memcmp be trusted to compare relative magnitude?
?X: assume the worst
val="$undef"
case "$d_memcmp" in
"$define")
 echo " "
 echo \
   "Checking to see if your memcmp() can compare relative magnitude..." >&4
 $cat >foo.c <<EOCP
#$i_memory I_MEMORY
#$i_stdlib I_STDLIB
#$i_string I_STRING
#$i_unistd I_UNISTD
EOCP
 $cat >>foo.c <<'EOCP'
#include <stdio.h>
#ifdef I_MEMORY
#  include <memory.h>
#endif
#ifdef I_STDLIB
```

```
#  include <stdlib.h>
#endif
#ifdef I_STRING
#  include <string.h>
#else
#  include <strings.h>
#endif
#ifdef I_UNISTD
#  include <unistd.h>  /* Needed for NetBSD */
#endif
int main()
{
char a = -1;
char b = 0;
if ((a < b) && memcmp(&a, &b, 1) < 0)
 exit(1);
exit(0);
}
EOCP
 if $cc $optimize $ccflags
 $ldflags \
      -o sanemcmp foo.c $libs >/dev/null 2>&1; then
  if ./sanemcmp 2>/dev/null; then
   echo "Yes, it can."
   val="$define"
  else
   echo "No, it can't (it uses signed chars)."
  fi
 else
  echo "(I can't compile the test program, so we'll assume not...)"
 fi
 ;;
esac
$rm -f foo.* sanemcmp core
set d_sanemcmp
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sanemcmp.U
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```
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```

```
?RCS:
?MAKE:gidformat: gidsize gidsign ivsize uvsize longsize intsize shortsize \
 ivdformat uvuformat test echo
?MAKE: -pick add $@ %<
?S:gidformat:
?S: This variable contains the format string used for printing a Gid_t.
?S:.
?C:Gid_t_f:
?C: This symbol defines the format string used for printing a Gid_t.
?C:.
?H:#define Gid_t_f  $gidformat  /**/
?H:.
: Check format string for GID

echo " "
$echo "Checking the format string to be used for gids..." >&4

case "$gidsign" in
-1) if $test X"$gidsize" = X"$ivsize"; then
  gidformat="$ivdformat"
 else
  if $test X"$gidsize" = X"$longsize"; then
   gidformat="'ld'"
  else
   if $test X"$gidsize" = X"$intsize"; then
    gidformat="'d'"
   else
    if $test X"$gidsize"
 = X"$shortsize"; then
     gidformat="'hd'"
    fi
   fi
  fi
 fi
 ;;
*) if $test X"$gidsize" = X"$uvsize"; then
  gidformat="$uvuformat"
 else
  if $test X"$gidsize" = X"$longsize"; then
   gidformat="'lu'"
  else
   if $test X"$gidsize" = X"$intsize"; then
    gidformat="'u'"
   else
    if $test X"$gidsize" = X"$shortsize"; then
     gidformat="'hu'"
    fi
   fi
```

```
  fi
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/gidf.U
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```
?RCS: $Id: d_poll.U 15 2006-08-30 18:21:51Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_poll.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:38:17  ram
?RCS: patch61: mention that <poll.h> can be included if HAS_POLL defined
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:26:31  ram
?RCS: patch45: created
?RCS:
?MAKE:d_poll: Inlibc
?MAKE: -pick add $@ %<
?S:d_poll:
?S: This variable conditionally defines the HAS_POLL symbol, which
?S: indicates to the C program that the poll() routine is available
?S: to poll active file descriptors.
?S:.
?C:HAS_POLL
 :
?C: This symbol, if defined, indicates that the poll routine is
?C: available to poll active file descriptors.  Please check I_POLL and
?C: I_SYS_POLL to know which header should be included as well.
?C:.
?H:#$d_poll HAS_POLL  /**/
?H:.
?LINT:set d_poll
: see if poll exists
set poll d_poll
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_poll.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: mailer.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: mailer.U,v $
?RCS: Revision 3.0.1.3  1995/01/11  15:32:11  ram
?RCS: patch45: can now use Loc variables since path stripping is deferred
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:10:04  ram
?RCS: patch23: ensure full path value is used for rmail also
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:14:18  ram
?RCS: patch16: now use _sendmail vars and friends for portability issues
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:10  ram
?RCS: Baseline for dist
 3.0 netwide release.
?RCS:
?MAKE:mailer: test cat rmail mail smail sendmail Getfile Oldconfig
?MAKE: -pick add $@ %<
?S:mailer:
?S: This variable contains the full pathname of a reasonable mailer.
?S: By reasonable, we mean some program which can understand internet
?S: addresses or at least forward them to some internet router. This
?S: mailer should be invoked as "mailer [options] recipients <mail".
?S:.
: determine the name of a reasonable mailer
case "$mailer" in
")
 if $test -f "$sendmail"; then
  dflt="$sendmail"
 elif $test -f "$smail"; then
  dflt="$smail"
 elif $test -f "$rmail"; then
  dflt="$rmail"
 elif $test -f /bin/mail; then
  dflt=/bin/mail
 else
```

```
  dflt=$mail
 fi
 ;;
*)  dflt="$mailer";;
esac
$cat <<EOM

I need the full pathname of the program used to deliver mail on your system.
A typical answer would be /usr/lib/sendmail or /bin/rmail, but you may choose
any other program, as long as it can be fed from standard input and will
honour any user-supplied headers.

EOM
fn=f
rp='Mail
 transport agent to be used?'
. ./getfile
mailer="$ans"
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/mailer.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_longlong.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_longlong.U,v $
?RCS:
?MAKE:d_longlong longlongsize: Compile Setvar Myread run \
 cat rm_try test longsize
?MAKE: -pick add $@ %<
?S:d_longlong:
?S: This variable conditionally defines HAS_LONG_LONG if
?S: the long long type is supported.
?S:.
?S:longlongsize:
?S: This variable contains the value of the LONGLONGSIZE symbol, which
?S: indicates to the C program how many bytes there are in a long long,
?S: if this system supports long long.
?S:.
?C:HAS_LONG_LONG:
?C: This symbol will be defined if the C compiler supports long long.
?C:.
```

```
?C:LONGLONGSIZE:
?C: This symbol contains the size of a long long, so that the
?C: C preprocessor can make decisions based on it.  It is only
?C: defined
 if the system supports long long.
?C:.
?H:#$d_longlong HAS_LONG_LONG  /**/
?H:?LONGLONGSIZE:#ifdef HAS_LONG_LONG
?H:?LONGLONGSIZE:#define LONGLONGSIZE $longlongsize  /**/
?H:?LONGLONGSIZE:#endif
?H:.
?F:!try
?LINT:set d_longlong
: check for long long
echo " "
echo "Checking to see if you have long long..." >&4
echo 'int main() { long long x = 7; return 0; }' > try.c
set try
if eval $compile; then
 val="$define"
 echo "You have long long."
else
 val="$undef"
 echo "You do not have long long."
fi
$rm_try
set d_longlong
eval $setvar

@if LONGLONGSIZE || longlongsize
: check for length of long long
?X:  Check only if d_longlong and if longlongsize is not already set.
case "${d_longlong}${longlongsize}" in
$define)
 echo " "
 echo "Checking to see how big your long longs are..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
   printf("%d\n", (int)sizeof(long long));
   return(0);
}
EOCP
 set try
 if eval $compile_ok; then
  longlongsize=`$run ./try`
  echo "Your long
```

```
 longs are $longlongsize bytes long."
 else
  dflt='8'
  echo " "
  echo "(I can't seem to compile the test program.  Guessing...)"
  rp="What is the size of a long long (in bytes)?"
  . ./myread
  longlongsize="$ans"
 fi
 if $test "X$longsize" = "X$longlongsize"; then
  echo "(That isn't any different from an ordinary long.)"
 fi
 ;;
esac
$rm_try
@end
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_longlong.U
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```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_mmap mmaptype: Inlibc i_sysmman cat cc ccflags
?MAKE: -pick add $@ %<
?S:d_mmap:
?S: This variable conditionally defines HAS_MMAP if mmap() is
?S: available to map a file into memory.
?S:.
?S:mmaptype:
?S: This symbol contains the type of pointer returned by mmap()
?S: (and simultaneously the type of the first argument).
?S: It can be 'void *' or 'caddr_t'.
?S:.
?C:HAS_MMAP:
?C: This symbol, if defined, indicates that the mmap system call is
?C: available to map a file into memory.
?C:.
?C:Mmap_t:
```

```
?C: This symbol
 holds the return type of the mmap() system call
?C: (and simultaneously the type of the first argument).
?C: Usually set to 'void *' or 'caddr_t'.
?C:.
?H:#$d_mmap HAS_MMAP  /**/
?H:#define Mmap_t $mmaptype /**/
?H:.
?LINT:set d_mmap
: see if mmap exists
set mmap d_mmap
eval $inlibc
: see what shmat returns
: default to something harmless
mmaptype='void *'
case "$i_sysmman$d_mmap" in
"$define$define")
 $cat >mmap.c <<'END'
#include <sys/mman.h>
void *mmap();
END
 if $cc $ccflags -c mmap.c >/dev/null 2>&1; then
  mmaptype='void *'
 else
  mmaptype='caddr_t'
 fi
 echo "and it returns ($mmaptype)." >&4
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_mmap.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: inc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: inc.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:51  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?MAKE:inc incexp: Loc Oldconfig Getfile usrinc
?MAKE: -pick add $@ %<
?S:inc:
?S: This variable holds the name of the directory in which the user wants
?S: to put public header files for the package in question.  It is most
?S: often a local directory such as /usr/local/include.
?S:.
?S:incexp:
?S: This is the same as the inc variable, but is filename
 expaned
?S: at configuration time for convenient use in your makefiles.
?S:.
: determine where public header files go
case "$inc" in
")
 dflt=`./loc . "." /usr/local/include /usr/include/local $usrinc`
 ;;
*)  dflt="$inc"
 ;;
esac
fn=d~
rp='Where do you want to put the public header files?'
. ./getfile
inc="$ans"
incexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/inc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sjis2jis.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sjis2jis.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:25  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sjis2jis: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_sjis2jis:
?S: This variable conditionally defines the HAS_SJIS2JIS symbol, which
?S: indicates to the C program that the sjis2jis() routine is available
?S: to convert SJIS to JIS.
?S:.
?C:HAS_SJIS2JIS:
?C: This symbol, if defined, indicates that the sjis2jis routine is
?C: available
 to convert SJIS to JIS.
?C:.
?H:#$d_sjis2jis HAS_SJIS2JIS  /**/
?H:.
?LINT:set d_sjis2jis
: see if sjis2jis exists
set sjis2jis d_sjis2jis
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sjis2jis.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2017-2018, H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_accept4: Inlibc
?MAKE: -pick add $@ %<
?S:d_accept4:
?S: This variable conditionally defines HAS_ACCEPT4 if accept4() is
?S: available to accept socket connections.
?S:.
?C:HAS_ACCEPT4:
?C: This symbol, if defined, indicates that the accept4 routine is
?C: available to accept socket connections.
?C:.
?H:#$d_accept4 HAS_ACCEPT4 /**/
?H:.
?LINT:set d_accept4
: see if accept4 exists
set accept4 d_accept4
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_accept4.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_msgsnd.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msgsnd.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:41  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_msgsnd: Inlibc
?MAKE: -pick add $@ %<
?S:d_msgsnd:
?S: This variable conditionally defines the HAS_MSGSND symbol, which
?S: indicates to the C program that the msgsnd() routine is available.
?S:.
?C:HAS_MSGSND:
?C: This symbol, if defined, indicates that the msgsnd() routine is
?C: available to send a message into the message queue.
?C:.
?H:#$d_msgsnd
 HAS_MSGSND  /**/
?H:.
?LINT:set d_msgsnd
: see if msgsnd exists
set msgsnd d_msgsnd
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_msgsnd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_voidsig.U,v 3.0.1.3 1995/05/12 12:12:46 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_voidsig.U,v $
?RCS: Revision 3.0.1.3  1995/05/12  12:12:46  ram
?RCS: patch54: made cppflags dependency optional
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:20:35  ram
?RCS: patch32: now sets signal_t only once d_voidsig is known (WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:59:54  ram
?RCS: patch30: now properly sets signal_t when re-using previous value
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_voidsig
 signal_t: rm contains cppstdin cppminus +cppflags test Myread \
 Oldconfig Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_voidsig:
?S: This variable conditionally defines VOIDSIG if this system
?S: declares "void (*signal(...))()" in signal.h.  The old way was to
?S: declare it as "int (*signal(...))()".
?S:.
?S:signal_t:
?S: This variable holds the type of the signal handler (void or int).
?S:.
?C:VOIDSIG:
?C: This symbol is defined if this system declares "void (*signal(...))()" in
?C: signal.h.  The old way was to declare it as "int (*signal(...))()".  It
?C: is up to the package author to declare things correctly based on the
?C: symbol.
?C:.
?C:Signal_t (SIGNAL_T):
?C: This symbol's value is either "void" or "int", corresponding to the
?C: appropriate return type of a signal handler.  Thus, you can declare
?C: a signal handler using "Signal_t (*handler)()", and define the
?C: handler using "Signal_t handler(sig)".
?C:.
?H:#$d_voidsig VOIDSIG /**/
?H:#define
 Signal_t $signal_t /* Signal handler's return type */
?H:.
?T:xxx
?LINT:set d_voidsig
: see if signal is declared as pointer to function returning int or void
echo " "
```

```
xxx=`./findhdr signal.h`
$test "$xxx" && $cppstdin $cppminus $cppflags < $xxx >$$.tmp 2>/dev/null
if $contains 'int.*\*[  ]*signal' $$.tmp >/dev/null 2>&1 ; then
 echo "You have int (*signal())() instead of void." >&4
 val="$undef"
elif $contains 'void.*\*[  ]*signal' $$.tmp >/dev/null 2>&1 ; then
 echo "You have void (*signal())()." >&4
 val="$define"
elif $contains 'extern[  ]*[(\*]*signal' $$.tmp >/dev/null 2>&1 ; then
 echo "You have int (*signal())() instead of void." >&4
 val="$undef"
?X: This next test is kind of sloppy, but it catches Linux
?X: which has a
?X:  typedef void (*__sighandler_t)  (int)  ;
?X: A better fix would be to compile a C program with the proper
?X: prototype, but since nearly everyone uses void, we'll just go with
?X: this.
elif $contains 'void.*\*.*sig' $$.tmp >/dev/null 2>&1 ; then
 echo "You
 have void (*signal())()." >&4
 val="$define"
else
 case "$d_voidsig" in
 ")
 echo "I can't determine whether signal handler returns void or int..." >&4
  dflt=void
  rp="What type does your signal handler return?"
  . ./myread
  case "$ans" in
  v*) val="$define";;
  *) val="$undef";;
  esac;;
 "$define")
  echo "As you already told me, signal handler returns void." >&4
  val="$define"
  ;;
 *) echo "As you already told me, signal handler returns int." >&4
  val="$undef"
  ;;
 esac
fi
set d_voidsig
eval $setvar
case "$d_voidsig" in
"$define") signal_t="void";;
*) signal_t="int";;
esac
$rm -f $$.tmp
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_voidsig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setgrent.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_setgrent.U,v $
?RCS:
?MAKE:d_setgrent: Inlibc
?MAKE: -pick add $@ %<
?S:d_setgrent:
?S: This variable conditionally defines the HAS_SETGRENT symbol, which
?S: indicates to the C program that the setgrent() routine is available
?S: for initializing sequential access to the group database.
?S:.
?C:HAS_SETGRENT:
?C: This symbol, if defined, indicates that the setgrent routine is
?C: available for initializing sequential access of the group database.
?C:.
?H:#$d_setgrent HAS_SETGRENT  /**/
?H:.
?LINT:set d_setgrent
: see if setgrent exists
set setgrent d_setgrent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_setgrent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_fp_class.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_fp_class: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_fp_class:
```

```
?S: This variable conditionally defines the I_FP_CLASS symbol, and indicates
?S: whether a C program should include <fp_class.h>.
?S:.
?C:I_FP_CLASS:
?C: This symbol, if defined, indicates that <fp_class.h> exists and
?C: should be included.
?C:.
?H:#$i_fp_class I_FP_CLASS  /**/
?H:.
?LINT:set i_fp_class
: see if this is a fp_class.h system
set fp_class.h i_fp_class
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_fp_class.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_flexfnam.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_flexfnam: cat rm test Setvar
?MAKE: -pick add $@ %<
?S:d_flexfnam:
?S: This variable conditionally defines the FLEXFILENAMES symbol, which
?S: indicates that the system supports filenames longer than 14 characters.
?S:.
?C:FLEXFILENAMES:
?C: This symbol, if defined, indicates that the system supports filenames
?C: longer than 14 characters.
?C:.
?H:#$d_flexfnam FLEXFILENAMES  /**/
?H:.
?T:first
 second
?LINT:set d_flexfnam
```

```
: see if we can have long filenames
echo " "
?X:
?X: We have to test in both /tmp and . because of NFS (remote server may allow
?X: long filenames while the local filesystem cannot support them). If at least
?X: one of those file systems cannot support long filenames, then we assume the
?X: whole system can't.
?X:
rmlist="$rmlist /tmp/cf$$"
$test -d /tmp/cf$$ || mkdir /tmp/cf$$
first=123456789abcdef
second=/tmp/cf$$/$first
$rm -f $first $second
if (echo hi >$first) 2>/dev/null; then
 if $test -f 123456789abcde; then
  echo 'You cannot have filenames longer than 14 characters.  Sigh.' >&4
  val="$undef"
 else
  if (echo hi >$second) 2>/dev/null; then
   if $test -f /tmp/cf$$/123456789abcde; then
    $cat <<'EOM'
That's peculiar... You can have filenames longer than 14 characters, but only
on some of the filesystems.  Maybe you are using NFS.  Anyway, to avoid problems
I shall consider your system cannot support long filenames at all.
EOM
    val="$undef"
   else
    echo
 'You can have filenames longer than 14 characters.' >&4
    val="$define"
   fi
  else
   $cat <<'EOM'
How confusing! Some of your filesystems are sane enough to allow filenames
longer than 14 characters but some others like /tmp can't even think about them.
So, for now on, I shall assume your kernel does not allow them at all.
EOM
   val="$undef"
  fi
 fi
else
 $cat <<'EOM'
You can't have filenames longer than 14 chars.  You can't even think about them!
EOM
 val="$undef"
fi
set d_flexfnam
eval $setvar
```

```
$rm -rf /tmp/cf$$ 123456789abcde*
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_flexfnam.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d__fwalk: Inlibc
?MAKE: -pick add $@ %<
?S:d__fwalk:
?S: This variable conditionally defines HAS__FWALK if _fwalk() is
?S: available to apply a function to all the file handles.
?S:.
?C:HAS__FWALK:
?C: This symbol, if defined, indicates that the _fwalk system call is
?C: available to apply a function to all the file handles.
?C:.
?H:#$d__fwalk HAS__FWALK  /**/
?H:.
?LINT:set d__fwalk
: see if _fwalk exists
set fwalk d__fwalk
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d__fwalk.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_pwd.U,v 3.0.1.2 1995/07/25 14:10:57 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
?RCS: $Log: i_pwd.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:10:57  ram
?RCS: patch56: use setvar so hint file values can override our guesses (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:03:27  ram
?RCS: patch23: had forgotten cppminus in cppstdin test (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:25  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit checks whether there is a pwd system or not
?X:
?MAKE:i_pwd d_pwquota d_pwage d_pwchange
 d_pwclass d_pwexpire \
 d_pwgecos d_pwpasswd d_pwcomment: \
 contains rm cppstdin cppflags cppminus Inhdr Findhdr Setvar
?MAKE: -pick add $@ %<
?S:i_pwd:
?S: This variable conditionally defines I_PWD, which indicates
?S: to the C program that it should include <pwd.h>.
?S:.
?S:d_pwquota:
?S: This variable conditionally defines PWQUOTA, which indicates
?S: that struct passwd contains pw_quota.
?S:.
?S:d_pwage:
?S: This variable conditionally defines PWAGE, which indicates
?S: that struct passwd contains pw_age.
?S:.
?S:d_pwchange:
?S: This variable conditionally defines PWCHANGE, which indicates
?S: that struct passwd contains pw_change.
?S:.
?S:d_pwclass:
?S: This variable conditionally defines PWCLASS, which indicates
?S: that struct passwd contains pw_class.
?S:.
?S:d_pwexpire:
?S: This variable conditionally defines PWEXPIRE, which indicates
?S: that struct passwd contains pw_expire.
?S:.
?S:d_pwcomment:
?S: This variable conditionally defines PWCOMMENT, which indicates
?S: that
 struct passwd contains pw_comment.
?S:.
```

```
?S:d_pwgecos:
?S: This variable conditionally defines PWGECOS, which indicates
?S: that struct passwd contains pw_gecos.
?S:.
?S:d_pwpasswd:
?S: This variable conditionally defines PWPASSWD, which indicates
?S: that struct passwd contains pw_passwd.
?S:.
?C:I_PWD:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <pwd.h>.
?C:.
?C:PWQUOTA:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_quota.
?C:.
?C:PWAGE:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_age.
?C:.
?C:PWCHANGE:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_change.
?C:.
?C:PWCLASS:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_class.
?C:.
?C:PWEXPIRE:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_expire.
?C:.
?C:PWCOMMENT:
?C: This
 symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_comment.
?C:.
?C:PWGECOS:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_gecos.
?C:.
?C:PWPASSWD:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_passwd.
?C:.
?H:#$i_pwd I_PWD  /**/
?H:#$d_pwquota PWQUOTA /**/
?H:#$d_pwage PWAGE /**/
```

```
?H:#$d_pwchange PWCHANGE /**/
?H:#$d_pwclass PWCLASS /**/
?H:#$d_pwexpire PWEXPIRE /**/
?H:#$d_pwcomment PWCOMMENT /**/
?H:#$d_pwgecos PWGECOS /**/
?H:#$d_pwpasswd PWPASSWD /**/
?H:.
?LINT: set i_pwd d_pwquota d_pwage d_pwchange d_pwclass d_pwexpire d_pwcomment
?LINT: set d_pwgecos d_pwpasswd
?T:xxx
: see if this is a pwd.h system
set pwd.h i_pwd
eval $inhdr

case "$i_pwd" in
$define)
 xxx=`./findhdr pwd.h`
 $cppstdin $cppflags $cppminus < $xxx >$$.h

 if $contains 'pw_quota' $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_pwquota
 eval $setvar

 if $contains 'pw_age'
 $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_pwage
 eval $setvar

 if $contains 'pw_change' $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_pwchange
 eval $setvar

 if $contains 'pw_class' $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
```

```
fi
set d_pwclass
eval $setvar

if $contains 'pw_expire' $$.h >/dev/null 2>&1; then
 val="$define"
else
 val="$undef"
fi
set d_pwexpire
eval $setvar

if $contains 'pw_comment' $$.h >/dev/null 2>&1; then
 val="$define"
else
 val="$undef"
fi
set d_pwcomment
eval $setvar

if $contains 'pw_gecos' $$.h >/dev/null 2>&1; then
 val="$define"
else
 val="$undef"
fi
set d_pwgecos
eval $setvar

if $contains 'pw_passwd' $$.h >/dev/null 2>&1; then
 val="$define"
else
 val="$undef"
fi
set d_pwpasswd
eval $setvar

$rm -f $$.h
;;
*)
val="$undef";
set d_pwquota; eval $setvar
set d_pwage; eval $setvar
set d_pwchange; eval $setvar
set d_pwclass; eval $setvar
set
d_pwexpire; eval $setvar
set d_pwcomment; eval $setvar
set d_pwgecos; eval $setvar
```

```
 set d_pwpasswd; eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_pwd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_ualarm: Inlibc
?MAKE: -pick add $@ %<
?S:d_ualarm:
?S: This variable conditionally defines the HAS_UALARM symbol, which
?S: indicates to the C program that the ualarm() routine is available.
?S:.
?C:HAS_UALARM:
?C: This symbol, if defined, indicates that the ualarm routine is
?C: available to do alarms with microsecond granularity.
?C:.
?H:#$d_ualarm HAS_UALARM  /**/
?H:.
?LINT:set d_ualarm
: see if ualarm exists
set ualarm d_ualarm
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_ualarm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: ccflags.U,v $
?RCS: Revision 3.0.1.9  1997/02/28  15:27:07  ram
?RCS: patch61: removed support for NO_PROTOTYPE detection on SCO
?RCS: patch61: new locincpth variable
?RCS: patch61: added info on the "additional ld flags" question
?RCS:
?RCS: Revision 3.0.1.8  1995/07/25  13:48:54  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.7  1995/05/12  12:08:33  ram
?RCS: patch54: now checks for cc/ccflags/ldflags coherency
?RCS:
?RCS: Revision 3.0.1.6
  1994/10/29  16:07:02  ram
?RCS: patch36: gcc versioning no longer relies on the C compiler's name
?RCS: patch36: simplified check for gcc version checking (ADO)
?RCS:
?RCS: Revision 3.0.1.5  1994/08/29  16:06:35  ram
?RCS: patch32: propagate -posix flag from ccflags to ldflags
?RCS:
?RCS: Revision 3.0.1.4  1994/05/06  14:28:45  ram
?RCS: patch23: -fpcc-struct-return only needed in gcc 1.x (ADO)
?RCS: patch23: cppflags now computed on an option-by-option basis
?RCS: patch23: magically added cc flags now only done the first time
?RCS:
?RCS: Revision 3.0.1.3  1993/09/13  15:58:29  ram
?RCS: patch10: explicitly mention -DDEBUG just in case they need it (WAD)
?RCS: patch10: removed all the "tans" variable usage (WAD)
?RCS:
?RCS: Revision 3.0.1.2  1993/08/27  14:39:38  ram
?RCS: patch7: added support for OSF/1 machines
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:00:24  ram
?RCS: patch6: added defaults for cppflags, ccflags and ldflags
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:31  ram
?RCS:
 Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:ccflags ldflags lkflags cppflags optimize locincpth: test cat \
 Myread Guess Options Oldconfig gccversion mips_type +usrinc \
 package contains rm rm_try +cc cppstdin cppminus cpprun cpplast libpth \
 loclibpth hint
?MAKE: -pick add $@ %<
?S:ccflags:
?S: This variable contains any additional C compiler flags desired by
?S: the user.  It is up to the Makefile to use this.
?S:.
```

```
?S:cppflags:
?S: This variable holds the flags that will be passed to the C pre-
?S: processor. It is up to the Makefile to use it.
?S:.
?S:optimize:
?S: This variable contains any optimizer/debugger flag that should be used.
?S: It is up to the Makefile to use it.
?S:.
?S:ldflags:
?S: This variable contains any additional C loader flags desired by
?S: the user.  It is up to the Makefile to use this.
?S:.
?S:lkflags:
?S: This variable contains any additional C partial linker flags desired by
?S: the user.  It is up to the Makefile to use this.
?S:.
?S:locincpth:
?S: This
 variable contains a list of additional directories to be
?S: searched by the compiler.  The appropriate -I directives will
?S: be added to ccflags.  This is intended to simplify setting
?S: local directories from the Configure command line.
?S: It's not much, but it parallels the loclibpth stuff in libpth.U.
?S:.
?T:inctest thisincl xxx flag inclwanted ftry previous thislibdir
?F:!cpp.c
?D:cppflags=''
?D:ccflags=''
?D:ldflags=''
?D:optimize=''
?INIT:: Possible local include directories to search.
?INIT:: Set locincpth to "" in a hint file to defeat local include searches.
?INIT:locincpth="/usr/local/include /opt/local/include /usr/gnu/include"
?INIT:locincpth="$locincpth /opt/gnu/include /usr/GNU/include /opt/GNU/include"
?INIT::
?INIT:: no include file wanted by default
?INIT:inclwanted=''
?INIT:
: determine optimize, if desired, or use for debug flag also
case "$optimize" in
' '|$undef) dflt='none';;
'')
 case "$gccversion" in
 '') dflt='-O';;
 *) dflt='-O2 -g';;
 esac
 ;;
*)
```

```
 dflt="$optimize";;
esac
case "$gccversion" in
") $cat <<EOH

Some C compilers have problems with their optimizers.  By default, $package
compiles with the -O flag to use the optimizer.  Alternately, you might want
to use the symbolic debugger, which uses the -g flag (on traditional Unix
systems).  Either flag can be specified here.  To use neither flag, specify
the word "none".

EOH
 ;;
*) $cat <<EOH

With the GNU C compiler, it is possible to supply both -O2 and -g flags, to
be able to reasonably optimize, whilst retaining the ability to use a
symbolic debugger.  Either flag can be specified here.  To use neither flag,
specify the word "none".

EOH
 ;;
esac
rp="What optimizer/debugger flag should be used?"
. ./myread
optimize="$ans"
case "$optimize" in
'none') optimize=" ";;
esac

dflt="
: We will not override a previous value, but we might want to
: augment a hint file
case "$hint" in
default|recommended)
 case "$gccversion" in
 1*) dflt='-fpcc-struct-return' ;;
 esac
?X:
 check for POSIXized ISC
 case "$gccversion" in
 2*) if test -d /etc/conf/kconfig.d &&
   $contains _POSIX_VERSION $usrinc/sys/unistd.h >/dev/null 2>&1
  then
   dflt="$dflt -posix"
  fi
  ;;
 esac
```

```
?X: turn warnings on if they're using gcc
 case "$gccversion" in
 1*|2*) dflt="$dflt -Wall";;
?X: starting with version 3, add "-W -Wall -Wformat=2 -Wshadow" by default
 *) dflt="$dflt -W -Wall -Wformat=2 -Wshadow";;
 esac
 ;;
esac

?X: In USG mode, a MIPS system may need some BSD includes
case "$mips_type" in
*BSD*|") inclwanted="$locincpth $usrinc";;
*) inclwanted="$locincpth $inclwanted $usrinc/bsd";;
esac
for thisincl in $inclwanted; do
 if $test -d $thisincl; then
  if $test x$thisincl != x$usrinc; then
   case "$dflt" in
   *$thisincl*);;
   *) dflt="$dflt -I$thisincl";;
   esac
  fi
 fi
done

?X: Include test function (header, symbol)
inctest='if $contains $2 $usrinc/$1 >/dev/null 2>&1; then
 xxx=true;
elif $contains $2 $usrinc/sys/$1 >/dev/null 2>&1; then
 xxx=true;
else
 xxx=false;
fi;
if
 $xxx; then
 case "$dflt" in
 *$2*);;
 *) dflt="$dflt -D$2";;
 esac;
fi'

?X:
?X: OSF/1 uses __LANGUAGE_C__ instead of LANGUAGE_C
?X:
if ./osf1; then
 set signal.h __LANGUAGE_C__; eval $inctest
else
 set signal.h LANGUAGE_C; eval $inctest
```

```
fi

case "$hint" in
default|recommended) dflt="$ccflags $dflt" ;;
*) dflt="$ccflags";;
esac

case "$dflt" in
"|' ') dflt=none;;
esac
$cat <<EOH

Your C compiler may want other flags.  For this question you should include
-I/whatever and -DWHATEVER flags and any other flags used by the C compiler,
but you should NOT include libraries or ld flags like -lwhatever.

To use no flags, specify the word "none".

EOH
?X: strip leading space
set X $dflt
shift
dflt=${1+"$@"}
rp="Any additional cc flags?"
. ./myread
case "$ans" in
none) ccflags="";;
*) ccflags="$ans";;
esac

: the following weeds options from ccflags that are of no interest to cpp
cppflags="$ccflags"
case "$gccversion" in
1*) cppflags="$cppflags -D__GNUC__"
esac
case "$mips_type" in
");;
*BSD*)
 cppflags="$cppflags -DSYSTYPE_BSD43";;
esac
case "$cppflags" in
");;
*)
 echo " "
 echo "Let me guess what the preprocessor flags are..." >&4
 set X $cppflags
 shift
 cppflags="
```

```
 $cat >cpp.c <<'EOM'
#define BLURFL foo

BLURFL xx LFRULB
EOM
?X:
?X: For each cc flag, try it out with both cppstdin and cpprun, since the
?X: first is almost surely a cc wrapper. We have to try both in case
?X: of cc flags like '-Olimit 2900' that are actually two words...
?X:
 previous=''
 for flag in $*
 do
  case "$flag" in
  -*) ftry="$flag";;
  *) ftry="$previous $flag";;
  esac
  if $cppstdin -DLFRULB=bar $ftry $cppminus <cpp.c \
   >cpp1.out 2>/dev/null && \
   $cpprun -DLFRULB=bar $ftry $cpplast <cpp.c \
   >cpp2.out 2>/dev/null && \
   $contains 'foo.*xx.*bar' cpp1.out >/dev/null 2>&1 && \
   $contains 'foo.*xx.*bar' cpp2.out >/dev/null 2>&1
  then
   cppflags="$cppflags $ftry"
   previous=''
  else
   previous="$flag"
  fi
 done
 set X $cppflags
 shift
 cppflags=${1+"$@"}
 case "$cppflags"
 in
 *-*)  echo "They appear to be: $cppflags";;
 esac
 $rm -f cpp.c cpp?.out
 ;;
esac

: flags used in final linking phase
case "$ldflags" in
'') if ./venix; then
  dflt='-i -z'
 else
  dflt=''
 fi
```

```
 case "$ccflags" in
 *-posix*) dflt="$dflt -posix" ;;
 esac
 ;;
*) dflt="$ldflags";;
esac

: Try to guess additional flags to pick up local libraries.
for thislibdir in $libpth; do
 case " $loclibpth " in
 *" $thislibdir "*)
  case "$dflt " in
  *"-L$thislibdir "*) ;;
  *)  dflt="$dflt -L$thislibdir" ;;
  esac
  ;;
 esac
done

case "$dflt" in
") dflt='none' ;;
*) set X $dflt; shift; dflt="$@";;
esac

$cat <<EOH

Your C linker may need flags.  For this question you should
include -L/whatever and any other flags used by the C linker, but you
should NOT include libraries like -lwhatever.

Make sure you include the appropriate -L/path flags if your C linker
does not normally search all of the directories you specified above,
namely
 $libpth
To use no flags, specify the word "none".

EOH

rp="Any
 additional ld flags (NOT including libraries)?"
. ./myread
case "$ans" in
none) ldflags=";;
*) ldflags="$ans";;
esac
rmlist="$rmlist pdp11"

@if lkflags
```

```
: partial linking may need other flags
case "$lkflags" in
") case "$ldflags" in
 ") dflt='none';;
 *) dflt="$ldflags";;
 esac;;
*) dflt="$lkflags";;
esac
echo " "
rp="Partial linking flags to be used (NOT including -r)?"
. ./myread
case "$ans" in
none) lkflags=";;
*) lkflags="$ans";;
esac

@end
?X:
?X: If the user changes compilers after selecting a hint file, it's
?X: possible that the suggested ccflags/ldflags will be wrong.  Try to
?X: compile and run a simple test program.  Let the user see all the
?X: error messages. -- ADO and RAM
?X:
: coherency check
echo " "
echo "Checking your choice of C compiler and flags for coherency..." >&4
?X: Strip extra blanks in case some of the following variables are empty
set X $cc $optimize $ccflags $ldflags -o try try.c
shift
$cat >try.msg <<EOM
I've tried to compile and run a simple program
 with:

 $*
 ./try

and I got the following output:

EOM
$cat > try.c <<'EOF'
#include <stdio.h>
int main() { exit(0); }
EOF
dflt=y
?X: Use "sh -c" to avoid error messages tagged with leading "Configure:".
?X: We need to try the resulting executable, because cc might yield a 0 status
?X: even when ld failed, in which case the executable will not run properly,
?X: if its x bit is set at all...
```

```
if sh -c "$cc $optimize $ccflags $ldflags -o try try.c" >>try.msg 2>&1; then
 if sh -c './try' >>try.msg 2>&1; then
  dflt=n
 else
  echo "The program compiled OK, but exited with status $?." >>try.msg
  rp="You have a problem.  Shall I abort Configure"
  dflt=y
 fi
else
 echo "I can't compile the test program." >>try.msg
 rp="You have a BIG problem.  Shall I abort Configure"
 dflt=y
fi
case "$dflt" in
y)
 $cat try.msg >&4
?X: using -K will prevent default aborting--maybe they're cross compiling?
 case "$knowitall" in
 ")
  echo "(The supplied flags might be incorrect with this C compiler.)"
  ;;
 *)
 dflt=n;;
 esac
 echo " "
 . ./myread
 case "$ans" in
 n*|N*) ;;
 *) echo "Ok.  Stopping Configure." >&4
  exit 1
  ;;
 esac
 ;;
n) echo "OK, that should do.";;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/ccflags.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Cppsym.U,v 3.0.1.5 1995/05/12 11:59:11 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Cppsym.U,v $
?RCS: Revision 3.0.1.5  1995/05/12  11:59:11  ram
?RCS: patch54: split awk command onto two lines for older awk's (ADO)
?RCS:
?RCS: Revision 3.0.1.4  1995/01/11  14:55:57  ram
?RCS: patch45: new cc vs. cpp symbol checking suggested by JHI
?RCS: patch45: added more cpp symbols (JHI)
?RCS:
?RCS: Revision 3.0.1.3  1994/10/29  15:51:32  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: new symbols ardent and titan (ADO)
?RCS:
?RCS:
 Revision 3.0.1.2  1994/06/20  06:53:32  ram
?RCS: patch30: extended cpp symbol lookup list (JHI)
?RCS: patch30: renamed attrlist symbol into al for brevity
?RCS:
?RCS: Revision 3.0.1.1  1993/12/15  08:14:14  ram
?RCS: patch15: added new cpp symbols __bsdi__ and BSD_NET2
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X: This unit produces a shell script called Cppsym, which can be used to
?X: determine whether any in a list of symbols is defined by the C compilation
?X: chain (C preprocessor symbols plus C compiler native ones).
?X: It can determine the status of any symbol, though the symbols in $al
?X: are more easily determined.  If you want to add to $al you can do
?X: it in Myinit.U.
?MAKE:Cppsym ccsymbols cppsymbols cppccsymbols: run \
 eunicefix Guess awk cat tr sed sort rm rm_try startsh osname \
 +cc +gccversion test comm uniq echo Options trnl \
 optimize ccflags ldflags libs cpp_stuff cpp
?MAKE: -pick add $@ %<
?T:also
 symbols i postprocess_cc_v tHdrH
?X:
?X: The symbol list is in alpha order for ease of maintenance...
?X:
?X: Lots of new symbols (mostly rummaged from gcc), courtesy of
?X: Jarkko Hietaniemi <jhi@snakemail.hut.fi> -- RAM, 06/06/94
?X:
?S:ccsymbols:
?S: The variable contains the symbols defined by the C compiler alone.
```

```
?S: The symbols defined by cpp or by cc when it calls cpp are not in
?S: this list, see cppsymbols and cppccsymbols.
?S: The list is a space-separated list of symbol=value tokens.
?S:.
?S:cppsymbols:
?S: The variable contains the symbols defined by the C preprocessor
?S: alone.  The symbols defined by cc or by cc when it calls cpp are
?S: not in this list, see ccsymbols and cppccsymbols.
?S: The list is a space-separated list of symbol=value tokens.
?S:.
?S:cppccsymbols:
?S: The variable contains the symbols defined by the C compiler
?S: when it calls cpp.  The symbols defined by the cc alone or cpp
?S: alone are not in this list, see ccsymbols and cppsymbols.
?S: The
 list is a space-separated list of symbol=value tokens.
?S:.
?F:./Cppsym
?F:./Cppsym.know
?F:!Cppsym.true
?F:!ccsym.com
?F:!ccsym.cpp
?F:!ccsym.own
?X: fake LINT hints
?LINT:change ccflags
?LINT:extern s
?LINT:extern s__
: Preprocessor symbols
echo " "
$echo "Guessing which symbols your C compiler and preprocessor define..." >&4
?X: If your symbol is mixed case, just add it as-is.
?X: All symbols will be transformed to both all-lower and all-upper.
?X: Also drop any leading/trailing underscores, the scan will try all those.
$cat <<'EOSH' > Cppsym.know
a29k aarch64 ABI64 aegis AES_SOURCE AIX AIX32 AIX370 AIX41 AIX42
AIX43 aixpc AIX_SOURCE alliant ALL_SOURCE alpha AM29000 am29000
AMD64 amd64 amiga AMIGAOS AMIX ansi ANSI_C_SOURCE apollo arch_ppc
arch_pwr ardent ARM ARM32 atarist att386 att3b
BeOS BIG_ENDIAN BIT_MSF BSD bsd bsd43 bsd4_2 BSD4_3 bsd4_3 bsd4_4
BSDCOMPAT bsdi BSD_4_3 BSD_4_4 BSD_NET2 BSD_TIME BSD_TYPES bull
byteorder byte_order
c cadmus clang clipper CMU COFF COMPILER_VERSION
 concurrent
convex cpu CRAY cray CRAYMPP ctix CX_UX CYGWIN
DECC DGUX DGUX_SOURCE DJGPP dmert DOLPHIN DPX2 DSO Dynix DynixPTX
ELF encore EPI EXTENSIONS
FAVOR_BSD FILE_OFFSET_BITS FORTIFY_SOURCE FreeBSD
GCC_NEW_VARARGS gcos gcx gimpel GLIBC GLIBC_MINOR GNUC GNUC_MINOR
```

GNU_LIBRARY GNU_SOURCE GO32 gould GOULD_PN
H3050R H3050RX hbullx20 hcx host_mips hp200 hp300 HP700 hp700
hp800 hp9000 hp9000s200 hp9000s300 hp9000s400
hp9000s700 hp9000s800 hp9k8 hppa hpux HPUX_SOURCE hp_osf
i186 i286 i386 i486 i586 i686 i8086 i80960 i860 I960 IA32 IA64
iAPX286 ibm ibm032 ibmesa IBMR2 ibmrt ILP32 ILP64
INLINE_INTRINSICS INT64 INTEL interdata INTRINSICS is68k itanium
ksr1
LANGUAGE_C LARGEFILE64_SOURCE LARGEFILE_SOURCE LARGE_FILE_API
LFS64_LARGEFILE LFS_LARGEFILE LIBCATAMOUNT Linux LITTLE_ENDIAN
LONG64 LONGDOUBLE LONGLONG LONG_DOUBLE LONG_LONG LP64 luna
luna88k Lynx
M68000 m68k m88100 m88k M88KBCS_TARGET MACH machine MachTen
MATH_HAS_NO_SIDE_EFFECTS mc300 mc500 mc68000 mc68010 mc68020
mc68030 mc68040 mc68060
mc68k mc68k32 mc700 mc88000 mc88100
merlin mert MiNT mips MIPSEB MIPSEL MIPS_FPSET MIPS_ISA MIPS_SIM
MIPS_SZINT MIPS_SZLONG MIPS_SZPTR MODERN_C motorola MSDOS
MTXINU MULTIMAX MVS mvs M_AMD64 M_ARM M_ARMT M_COFF M_I186 M_I286
M_I386 M_I8086 M_I86 M_I86SM M_IA64 M_IX86 M_PPC M_SYS3 M_SYS5
M_SYSIII M_SYSV M_UNIX M_X86 M_XENIX
n16 ncl_el ncl_mr NetBSD news1500 news1700 news1800 news1900
news3700 news700 news800 news900 NeXT NLS nonstopux ns16000
ns32000 ns32016 ns32332 ns32k nsc32000
OCS88 OEMVS OpenBSD os OS2 OS390 osf OSF1 OSF_SOURCE
PARAGON parisc pa_risc PA_RISC1_1 PA_RISC2_0 pc532 pdp11 PGC PIC
plexus PORTAR posix POSIX1B_SOURCE POSIX2_SOURCE POSIX4_SOURCE
POSIX_C_SOURCE POSIX_SOURCE POWER powerpc ppc PROTOTYPES PWB pyr
QK_USER QNX
R3000 REENTRANT RES Rhapsody RISC6000 riscix riscos RT
S390 S390x SA110 SCO scs sequent sgi SGI_SOURCE SH SH3 sinix
SIZE_INT SIZE_LONG SIZE_PTR SOCKETS_SOURCE SOCKET_SOURCE sony
sonyrisc sony_news sparc sparclite sparcv8 sparcv9 spectrum
stardent stdc
STDC_EXT stratos sun sun3 sun386 Sun386i svr3 svr4
SVR4_2 SVR4_SOURCE svr5 SX system SYSTYPE_BSD SYSTYPE_BSD43
SYSTYPE_BSD44 SYSTYPE_SVR4 SYSTYPE_SVR5 SYSTYPE_SYSV SYSV SYSV3
SYSV4 SYSV5 sysV68 sysV88
Tek4132 Tek4300 thumb thw_370 thw_intel thw_rs6000 titan TM3200
TM5400 TM5600 tower tower32 tower32_200 tower32_600 tower32_700
tower32_800 tower32_850 tss
u370 u3b u3b2 u3b20 u3b200 u3b20d u3b5 ultrix UMAXV UnicomPBB
UnicomPBD UNICOS UNICOSMK unix UNIX95 UNIX99 unixpc unos USE_BSD
USE_FILE_OFFSET64 USE_GNU USE_ISOC9X USE_LARGEFILE
USE_LARGEFILE64 USE_MISC USE_POSIX USE_POSIX199309
USE_POSIX199506 USE_POSIX2 USE_REENTRANT USE_SVID USE_UNIX98
USE_XOPEN USE_XOPEN_EXTENDED USGr4 USGr4_2 UTek Utek UTS UWIN
uxpm uxps

```
vax venix VMESA vms
x86_64 xenix Xenix286 XOPEN_SOURCE XOPEN_SOURCE_EXTENDED XPG2
XPG2_EXTENDED XPG3 XPG3_EXTENDED XPG4 XPG4_EXTENDED
z8000 zarch
EOSH
# Maybe put other stuff here too.
?X:Some OS's will have a dash in their $osname
?X:e.g. Android is known as linux-android
?X:The
 preprocessor will interpret the dash as a minus
./tr '-' '_' <<EOSH >>Cppsym.know
$osname
EOSH
./tr '[a-z]' '[A-Z]' < Cppsym.know > Cppsym.a
./tr '[A-Z]' '[a-z]' < Cppsym.know > Cppsym.b
$cat Cppsym.know > Cppsym.c
$cat Cppsym.a Cppsym.b Cppsym.c | $tr ' ' $trnl | $sort | $uniq > Cppsym.know
$rm -f Cppsym.a Cppsym.b Cppsym.c
cat <<EOSH > Cppsym
$startsh
if $test \$# -gt 0; then
   echo \$* | $tr " " "$trnl" | ./Cppsym.try > Cppsym.got
   if $test -s Cppsym.got; then
 $rm -f Cppsym.got
 exit 0
   fi
   $rm -f Cppsym.got
   exit 1
else
   $tr " " "$trnl" | ./Cppsym.try
   exit 0
fi
EOSH
chmod +x Cppsym
$eunicefix Cppsym
?X: The below awk script will die a horrible death if
?X: some of the tested symbols are not long ints.
?X: Also, we do not make difference between just defined and defined zero.
cat <<EOSH > Cppsym.try
$startsh
cat <<'EOCP' > try.c
#include <stdio.h>
#if cpp_stuff == 1
#define STRINGIFY(a)    "a"
#endif
#if cpp_stuff == 42
#define StGiFy(a)  #a
#define STRINGIFY(a)
```

```
   StGiFy(a)
#endif
#if $cpp_stuff != 1 && $cpp_stuff != 42
#   include "Bletch: How does this C preprocessor stringify macros?"
#endif
int main() {
EOCP
?X: The length($1) command guards against possible empty entries.
?X: The awk snippet is know to give heartburn to UNICOS/mk awk.
$awk \\
EOSH
cat <<'EOSH' >> Cppsym.try
'length($1) > 0 {
   printf "#ifdef %s\nprintf(\"%s=%%s\\n\", STRINGIFY(%s));\n#endif\n", $1, $1, $1
   printf "#ifdef _%s\nprintf(\"_%s=%%s\\n\", STRINGIFY(_%s));\n#endif\n", $1, $1, $1
   printf "#ifdef __%s\nprintf(\"__%s=%%s\\n\", STRINGIFY(__%s));\n#endif\n", $1, $1, $1
   printf "#ifdef __%s__\nprintf(\"__%s__=%%s\\n\", STRINGIFY(__%s__));\n#endif\n", $1, $1, $1
}' >> try.c
echo 'return 0;}' >> try.c
EOSH
cat <<EOSH >> Cppsym.try
ccflags="$ccflags"
case "$osname-$gccversion" in
irix-) ccflags="\$ccflags -woff 1178" ;;
os2-*) ccflags="\$ccflags -Zlinker /PM:VIO" ;;
esac
$cc -o try -Dcpp_stuff=$cpp_stuff $optimize \$ccflags $ldflags try.c $libs 2>/dev/null
 && $run ./try | $sed 's/ /\\\\ /g'
EOSH
chmod +x Cppsym.try
$eunicefix Cppsym.try
./Cppsym < Cppsym.know | $sort | $uniq > Cppsym.true
: Add in any Linux cpp "predefined macros":
case "$osname::$gccversion" in
 *linux*::*.*|*gnukfreebsd*::*.*|gnu::*.*)
   tHdrH=_tmpHdr
   rm -f $tHdrH'.h' $tHdrH
   touch $tHdrH'.h'
   # Filter out macro arguments, such as Linux's __INT8_C(c)
   if $cpp -dM $tHdrH'.h' > $tHdrH'_cppsym.h' && [ -s $tHdrH'_cppsym.h' ]; then
      sed -e 's/#define[\ \  ]*//;s/[\ \     ].*$//' -e 's/(.*//' <$tHdrH'_cppsym.h' >$tHdrH'_cppsym.real'
      if [ -s $tHdrH'_cppsym.real' ]; then
   cat $tHdrH'_cppsym.real' Cppsym.know | sort | uniq | ./Cppsym | sort | uniq > Cppsym.true
      fi
   fi
   rm -f $tHdrH'.h' $tHdrH'_cppsym.h' $tHdrH'_cppsym.real'
 ;;
esac
```

```
: now check the C compiler for additional symbols
?X: suggested by Jarkko Hietaniemi <jhi@snakemail.hut.fi>, thanks!
postprocess_cc_v="
case "$osname" in
aix) postprocess_cc_v="|$tr , ' '" ;;
esac
$cat >ccsym
 <<EOS
$startsh
$cat >tmp.c <<EOF
extern int foo;
EOF
for i in \`$cc -v -c tmp.c 2>&1 $postprocess_cc_v\`
do
 case "\$i" in
 -D*) echo "\$i" | $sed 's/^-D//';;
 -A*) $test "$gccversion" && echo "\$i" | $sed 's/^-A//' | $sed 's/\(.*\)(\(.*\))/\1=\2/';;
 esac
done
$rm_try
EOS
postprocess_cc_v="
chmod +x ccsym
$eunicefix ccsym
./ccsym > ccsym1.raw
?X: AIX complains if $uniq is passed an empty file.  ($sort apparently
?X: doesn't care.)  --AD  14 July 1998
if $test -s ccsym1.raw; then
   $sort ccsym1.raw | $uniq >ccsym.raw
else
   mv ccsym1.raw ccsym.raw
fi

?X: canonicalize symbols for easier sort/uniq/comm usage: append =1 if no = sign
?X: the awk script must be on two lines for older awk programs, sigh! -- ADO
$awk '/\=/ { print $0; next }
 { print $0"=1" }' ccsym.raw >ccsym.list
$comm -13 Cppsym.true ccsym.list >ccsym.own
$comm -12 Cppsym.true ccsym.list >ccsym.com
$comm -23 Cppsym.true ccsym.list >ccsym.cpp
also="
if $test -z ccsym.raw; then
 echo "Your C compiler doesn't seem
 to define any symbols!" >&4
 echo " "
 echo "However, your C preprocessor defines the following symbols:"
 $cat Cppsym.true
 ccsymbols="
```

```
 cppsymbols=`$cat Cppsym.true`
 cppsymbols=`echo $cppsymbols`
 cppccsymbols="$cppsymbols"
else
 if $test -s ccsym.com; then
  echo "Your C compiler and pre-processor define these symbols:"
  $sed -e 's/\(..*\)=.*/\1/' ccsym.com
  also='also '
  symbols='ones'
  cppccsymbols=`$cat ccsym.com`
  cppccsymbols=`echo $cppccsymbols`
  $test "$silent" || sleep 1
 fi
 if $test -s ccsym.cpp; then
  $test "$also" && echo " "
  echo "Your C pre-processor ${also}defines the following symbols:"
  $sed -e 's/\(..*\)=.*/\1/' ccsym.cpp
  also='further '
  cppsymbols=`$cat ccsym.cpp`
  cppsymbols=`echo $cppsymbols`
  $test "$silent" || sleep 1
 fi
 if $test -s ccsym.own; then
  $test "$also" && echo " "
  echo "Your C compiler ${also}defines the following cpp symbols:"
  $sed -e 's/\(..*\)=1/\1/' ccsym.own
  $sed -e 's/\(..*\)=.*/\1/' ccsym.own | $uniq >>Cppsym.true
  ccsymbols=`$cat
 ccsym.own`
  ccsymbols=`echo $ccsymbols`
  $test "$silent" || sleep 1
 fi
fi

: add -D_FORTIFY_SOURCE if feasible and not already there
case "$gccversion" in
[456789].*|[1-9][0-9]*) case "$optimize$ccflags" in
 *-O*) case "$ccflags$cppsymbols" in
  *_FORTIFY_SOURCE=*) # Don't add it again.
   echo "You seem to have -D_FORTIFY_SOURCE already, not adding it." >&4
   ;;
  *) echo "Adding -D_FORTIFY_SOURCE=2 to ccflags..." >&4
   ccflags="$ccflags -D_FORTIFY_SOURCE=2"
   ;;
  esac
  ;;
 *) echo "You have gcc 4.* or later but not optimizing, not adding -D_FORTIFY_SOURCE." >&4
  ;;
```

```
 esac
 ;;
*) echo "You seem not to have gcc 4.* or later, not adding -D_FORTIFY_SOURCE." >&4
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Cppsym.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sysconf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_sysconf.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:15:57  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_sysconf: Inlibc
?MAKE: -pick add $@ %<
?S:d_sysconf:
?S: This variable conditionally defines the HAS_SYSCONF symbol, which
?S: indicates to the C program that the sysconf() routine is available
?S: to determine system related limits and options.
?S:.
?C:HAS_SYSCONF:
?C: This
 symbol, if defined, indicates that sysconf() is available
?C: to determine system related limits and options.
?C:.
?H:#$d_sysconf HAS_SYSCONF /**/
?H:.
?LINT:set d_sysconf
: see if sysconf exists
set sysconf d_sysconf
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/dist/U/d_sysconf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: man1dir.U,v 3.2 1999/07/08 20:57:21 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1996, 1999 Andy Dougherty
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: man1dir.U,v $
?RCS: Revision 3.2  1999/07/08 20:57:21  doughera
?RCS: Used installprefix.
?RCS:
?RCS: Revision 3.1  1999/07/08 20:52:19  doughera
?RCS: Updated for perl5.005_5x
?RCS:
?RCS: Revision 3.0.1.1  1997/02/28  16:10:29  ram
?RCS: patch61: created
?RCS:
?X: This was originally specific to perl5.  Since perl5 has man pages that
?X: go in both man1/ and man3/ directories, we need both man1dir
?X: and
 man3dir.  This unit is basically dist's mansrc.U with
?X: man1 used instead of man everywhere.
?X:
?MAKE:man1dir man1direxp man1ext installman1dir: cat nroff Loc Oldconfig \
 spackage test Getfile Setprefixvar Prefixit Prefixup sysman Myread \
 prefixexp
?MAKE: -pick add $@ %<
?Y:TOP
?D:man1dir=''
?S:man1dir:
?S: This variable contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?D:man1direxp=''
?S:man1direxp:
?S: This variable is the same as the man1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installman1dir=''
```

```
?S:installman1dir:
?S: This variable is really the same as man1direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man1direxp only points to the read-only access location.
 For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:man1ext:
?S: This variable contains the extension that the manual page should
?S: have: one of 'n', 'l', or '1'.  The Makefile must supply the '.'.
?S: See man1dir.
?S:.
?T:lookpath
?LINT:change prefixvar
?LINT:set man1direxp
: determine where manual pages go
set man1dir man1dir none
eval $prefixit
$cat <<EOM

$spackage has manual pages available in source form.
EOM
case "$nroff" in
nroff)
 echo "However, you don't have nroff, so they're probably useless to you."
 case "$man1dir" in
 ") man1dir="none";;
 esac;;
esac
echo "If you don't want the manual sources installed, answer 'none'."
case "$man1dir" in
' ') dflt=none
 ;;
")
 lookpath="$prefixexp/share/man/man1"
 lookpath="$lookpath $prefixexp/man/man1 $prefixexp/man/l_man/man1"
 lookpath="$lookpath $prefixexp/man/p_man/man1"
 lookpath="$lookpath $prefixexp/man/u_man/man1"
 lookpath="$lookpath $prefixexp/man/man.1"
?X: Experience has shown people
 expect man1dir to be under prefix,
?X: so we now always put it there.  Users who want other behavior
?X: can answer interactively or use a command line option.
?X: Does user have System V-style man paths.
 case "$sysman" in
 */?_man*) dflt=`./loc . $prefixexp/l_man/man1 $lookpath` ;;
 *) dflt=`./loc . $prefixexp/man/man1 $lookpath` ;;
 esac
```

```
 set dflt
 eval $prefixup
 ;;
*)  dflt="$man1dir"
 ;;
esac
echo " "
fn=dn+~
rp="Where do the main $spackage manual pages (source) go?"
. ./getfile
if $test "X$man1direxp" != "X$ansexp"; then
 installman1dir=''
fi
prefixvar=man1dir
. ./setprefixvar

case "$man1dir" in
'') man1dir=' '
 installman1dir='';;
esac

: What suffix to use on installed man pages

case "$man1dir" in
' ')
 man1ext='0'
 ;;
*)
 rp="What suffix should be used for the main $spackage man pages?"
 case "$man1ext" in
 '') case "$man1dir" in
  *1)  dflt=1 ;;
  *1p) dflt=1p ;;
  *1pm) dflt=1pm ;;
  *l) dflt=l;;
  *n) dflt=n;;
  *o) dflt=o;;
  *p) dflt=p;;
  *C) dflt=C;;
  *L) dflt=L;;
  *L1)
 dflt=L1;;
  *) dflt=1;;
  esac
  ;;
 *) dflt="$man1ext";;
 esac
 . ./myread
```

```
 man1ext="$ans"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/man1dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_whoami.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_whoami.U,v $
?RCS: Revision 3.0.1.1  1993/08/25  14:02:21  ram
?RCS: patch6: added default for i_whoami
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_whoami: Inhdr
?MAKE: -pick add $@ %<
?S:i_whoami (d_whoami):
?S: This variable conditionally defines the I_WHOAMI symbol, which
?S: indicates to the C program that it should include <whoami.h>.
?S:.
?C:I_WHOAMI (WHOAMI):
?C: This symbol,
 if defined, indicates that the program may include
?C: <whoami.h>.
?C:.
?H:#$i_whoami I_WHOAMI /**/
?H:.
?D:i_whoami="
?LINT:set i_whoami
: see if there is a whoami.h file
set whoami.h i_whoami
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_whoami.U

No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_trunc: Inlibc
?MAKE: -pick add $@ %<
?S:d_trunc:
?S: This variable conditionally defines the HAS_TRUNC symbol, which
?S: indicates to the C program that the trunc() routine is available
?S: to round doubles towards zero.
?S:.
?C:HAS_TRUNC:
?C: This symbol, if defined, indicates that the trunc routine is
?C: available to round doubles towards zero.
?C:.
?H:#$d_trunc HAS_TRUNC  /**/
?H:.
?LINT:set d_trunc
: see if trunc exists
set trunc d_trunc
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_trunc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: patchlevel.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:18:41  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:patchlevel: package baserev test rsrc
?MAKE: -pick add $@ %<
?T:Revision
```

```
?S:patchlevel:
?S: The patchlevel level of this package.
?S: The value of patchlevel comes from the patchlevel.h file.
?S:.
: get the patchlevel
echo " "
echo "Getting the current patchlevel..." >&4
if $test -r
 $rsrc/patchlevel.h;then
 patchlevel=`awk \
  '/^#[  ]*define[  ][  ]*PATCHLEVEL/ {print $3}' \
  < $rsrc/patchlevel.h`
else
 patchlevel=0
fi
echo "(You have $package $baserev PL$patchlevel.)"
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/patchlevel.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_safemcpy.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  15:41:12  ram
?RCS: patch61: improved overlapping copy check
?RCS: patch61: comfort them if they have memmove
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.4  1995/07/25  13:58:46  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.3  1995/03/21  08:47:26  ram
?RCS: patch52: swapped two first arguments of memcpy() calls
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:15:10
  ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
```

```
?RCS: Revision 3.0.1.1  1994/05/06  14:53:12  ram
?RCS: patch23: ensure string is not optimized in read-only memory (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_safemcpy: cat d_memcpy +cc +optimize +ccflags +libs +ldflags rm \
 d_memmove i_memory i_stdlib i_string i_unistd Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_safemcpy:
?S: This variable conditionally defines the HAS_SAFE_MEMCPY symbol if
?S: the memcpy() routine can do overlapping copies.
?S:.
?C:HAS_SAFE_MEMCPY (SAFE_MEMCPY):
?C: This symbol, if defined, indicates that the memcpy routine is available
?C: to copy potentially overlapping memory blocks. Otherwise you should
?C: probably use memmove() or memcpy(). If neither is defined, roll your
?C: own version.
?C:.
?H:#$d_safemcpy HAS_SAFE_MEMCPY /**/
?H:.
?F:!safemcpy
?LINT: set d_safemcpy
: can memcpy handle overlapping blocks?
?X:
 assume the worst
val="$undef"
case "$d_memcpy" in
"$define")
 echo " "
 echo "Checking to see if your memcpy() can do overlapping copies..." >&4
 $cat >foo.c <<EOCP
#$i_memory I_MEMORY
#$i_stdlib I_STDLIB
#$i_string I_STRING
#$i_unistd I_UNISTD
EOCP
 $cat >>foo.c <<'EOCP'
#include <stdio.h>
#ifdef I_MEMORY
#  include <memory.h>
#endif
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#ifdef I_STRING
#  include <string.h>
#else
```

```
#  include <strings.h>
#endif
#ifdef I_UNISTD
#  include <unistd.h>  /* Needed for NetBSD */
#endif
int main()
{
char buf[128], abc[128];
char *b;
int len;
int off;
int align;

/* Copy "abcde..." string to char abc[] so that gcc doesn't
  try to store the string in read-only memory. */
memcpy(abc, "abcdefghijklmnopqrstuvwxyz0123456789", 36);

for (align = 7; align >= 0; align--) {
 for (len = 36; len; len--) {
  b = buf+align;
  memcpy(b, abc, len);
  for (off = 1; off <= len; off++) {
   memcpy(b+off, b, len);
   memcpy(b, b+off, len);
   if (memcmp(b, abc, len))
    exit(1);
  }
 }
}
exit(0);
}
EOCP
 if
 $cc $optimize $ccflags $ldflags \
      -o safemcpy foo.c $libs >/dev/null 2>&1; then
  if ./safemcpy 2>/dev/null; then
   echo "Yes, it can."
   val="$define"
  else
   echo "It can't, sorry."
   case "$d_memmove" in
   "$define") echo "But that's Ok since you have memmove()." ;;
   esac
  fi
 else
  echo "(I can't compile the test program, so we'll assume not...)"
  case "$d_memmove" in
  "$define") echo "But that's Ok since you have memmove()." ;;
```

```
  esac
 fi
 ;;
esac
$rm -f foo.* safemcpy core
set d_safemcpy
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_safemcpy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_static_inline.U,v $
?RCS:
?RCS: Copyright (c) 2010 Andrew Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafayette.edu>
?RCS:
?MAKE:d_static_inline perl_static_inline: Compile Setvar gccversion \
 cat echo run hint rm rm_try
?MAKE: -pick add $@ %<
?S:d_static_inline:
?S: This variable conditionally defines the HAS_STATIC_INLINE symbol,
?S: which indicates that the C compiler supports C99-style static
?S: inline.  That is, the function can't be called from another
?S: translation unit.
?S:.
?S:perl_static_inline:
?S: This variable defines the PERL_STATIC_INLINE
 symbol to
?S: the best-guess incantation to use for static inline functions.
?S: Possibilities include
?S:  static inline       (c99)
?S:  static __inline__   (gcc -ansi)
?S:  static __inline     (MSVC)
?S:  static _inline      (older MSVC)
?S:  static              (c89 compilers)
?S:.
?C:HAS_STATIC_INLINE :
?C: This symbol, if defined, indicates that the C compiler supports
?C: C99-style static inline.  That is, the function can't be called
```

```
?C: from another translation unit.
?C:.
?C:PERL_STATIC_INLINE:
?C: This symbol gives the best-guess incantation to use for static
?C: inline functions.  If HAS_STATIC_INLINE is defined, this will
?C: give C99-style inline.  If HAS_STATIC_INLINE is not defined,
?C: this will give a plain 'static'.  It will always be defined
?C: to something that gives static linkage.
?C: Possibilities include
?C:  static inline       (c99)
?C:  static __inline__   (gcc -ansi)
?C:  static __inline     (MSVC)
?C:  static _inline      (older MSVC)
?C:  static
        (c89 compilers)
?C:.
?H:#$d_static_inline HAS_STATIC_INLINE    /**/
?H:#define PERL_STATIC_INLINE $perl_static_inline /**/
?H:.
?LINT:set d_static_inline
?T:inline xxx
?F:!try
: see what flavor, if any, of static inline is supported
echo " "
echo "Checking to see if your system supports static inline..."
?X: Build two programs.  The first uses static inline in file a.c and
?X: should work.  The second also includes b.c which tries to link against
?X: the static function in a.c.  This should fail.
?X:.
$cat > try.c <<'EOCP'
#include <stdlib.h>
extern int f_via_a(int x);
extern int f_via_b(int x);
int main(int argc, char **argv)
{
   int y;

   y = f_via_a(0);
#ifdef USE_B
   y = f_via_b(0);
#endif
   if (y == 42) {
      return EXIT_SUCCESS;
   }
   else {
      return EXIT_FAILURE;
   }
}
```

```
EOCP
$cat > a.c <<'EOCP'
static INLINE int f(int x) {
   int y;
   y = x + 42;
   return y;
}

int f_via_a(int x)
{
   return f(x);
}
EOCP
$cat > b.c <<'EOCP'
extern int f(int x);

int
 f_via_b(int x)
{
   return f(x);
}
EOCP

# Respect a hint (or previous) value for perl_static_inline, if there is one.
case "$perl_static_inline" in
") # Check the various possibilities, and break out on success.
 # For gcc, prefer __inline__, which will still permit
 # cflags.SH to add in -ansi.
 case "$gccversion" in
  ") xxx="inline __inline__ __inline _inline";;
  *)  xxx="__inline__ inline __inline _inline";;
 esac
 for inline in $xxx; do
  set try -DINLINE=$inline a.c
  if eval $compile && $run ./try; then
   # Now make sure there is no external linkage of static
   # functions
   set try -DINLINE=$inline -DUSE_B a.c b.c
   if eval $compile && $run ./try; then
    $echo "Your compiler supports static $inline, " >&4
    $echo "but it also creates an external definition," >&4
    $echo "so I won't use it." >&4
    val=$undef
   else
    $echo "Your compiler supports static $inline." >&4
    val=$define
    perl_static_inline="static $inline";
    break;
```

```
  fi
 else
  $echo
"Your compiler does NOT support static $inline." >&4
  val="$undef"
 fi
done
;;
*inline*) # Some variant of inline exists.
echo "Keeping your $hint value of $perl_static_inline."
val=$define
;;
static)  # No inline capabilities
echo "Keeping your $hint value of $perl_static_inline."
val=$undef
;;
*)  # Unrecognized previous value -- blindly trust the supplied
# value and hope it makes sense.  Use old value for
# d_static_inline, if there is one.
echo "Keeping your $hint value of $perl_static_inline."
case "$d_static_inline" in
 ") val=$define ;;
 *)  val=$d_static_inline ;;
esac
;;
esac
# Fallback to plain 'static' if nothing worked.
case "$perl_static_inline" in
")
 perl_static_inline="static"
 val=$undef
;;
esac
set d_static_inline
eval $setvar
$rm -f a.[co] b.[co]
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_static_inline.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: sizetype.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:32:10  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:sizetype: Myread Typedef
?MAKE: -pick add $@ %<
?S:sizetype:
?S: This variable defines sizetype to be something like size_t,
?S: unsigned long, or whatever type is used to declare length
?S: parameters for string functions.
?S:.
?C:Size_t:
?C: This symbol holds the type used to declare length parameters
?C: for string
 functions.  It is usually size_t, but may be
?C: unsigned long, int, etc.  It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Size_t $sizetype  /* length paramater for string functions */
?H:.
: see what type is used for size_t
set size_t sizetype 'unsigned int' stdio.h sys/types.h
eval $typedef
dflt="$sizetype"
echo " "
rp="What type is used for the length parameter for string functions?"
. ./myread
sizetype="$ans"
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/sizetype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: You may redistribute only under the terms of the Artistic License,
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```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sockopt.U,v $
?RCS: Revision 3.0.1.1  1995/07/25  14:16:14  ram
?RCS: patch56: obsoleted KEEPALIVE in favor of CAN_KEEPALIVE for consistency
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_keepalive: cat rm contains +cc +ccflags socketlib sockethdr \
 d_oldsock libs Oldconfig Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_keepalive:
?S: This symbol conditionally defines CAN_KEEPALIVE which indicates to the C
?S: program that setsockopt
 SO_KEEPALIVE will work properly.
?S:.
?C:CAN_KEEPALIVE (KEEPALIVE):
?C: This symbol if defined indicates to the C program that the SO_KEEPALIVE
?C: option of setsockopt() will work as advertised in the manual.
?C:.
?H:#$d_keepalive CAN_KEEPALIVE  /**/
?H:.
?F:!socket
?LINT:set d_keepalive
: see if setsockopt with SO_KEEPALIVE works as advertised
echo " "
case "$d_oldsock" in
"$undef")
 if $contains SO_KEEPALIVE `./findhdr sys/socket.h` \
  /dev/null >/dev/null 2>&1
 then
  echo "OK, let's see if SO_KEEPALIVE works as advertised..." >&4
  $cat > socket.c <<EOP
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
#include <netdb.h>

int main()
{
 int s = socket(AF_INET, SOCK_STREAM, 0);
 if (s == -1)
  exit(1);
 if (-1 == setsockopt(s, SOL_SOCKET, SO_KEEPALIVE, 0, 0))
  exit(2);
 exit(0);
```

```
}
EOP
  if $cc $ccflags $sockethdr -o socket socket.c $libs \
   $socketlib >/dev/null 2>&1; then
   ./socket >/dev/null 2>&1
   case $? in
   0) echo "Yes, it does!"
    val="$define";;
   1)
 $cat <<EOM
(Something went wrong -- Assuming SO_KEEPALIVE is broken)
EOM
    val="$undef";;
   2) echo "No, it doesn't.  Don't trust your manuals!!"
    val="$undef";;
   esac
  else
   cat <<EOM
(I can't compile the test program -- Assuming SO_KEEPALIVE is broken)
EOM
   val="$undef"
  fi
 else
  echo "Strange!! You have BSD 4.2 sockets but no SO_KEEPALIVE option."
  val="$undef"
 fi;;
*) cat <<EOM
As you have an old socket interface, you can't have heard of SO_KEEPALIVE.
EOM
 val="$undef";;
esac
set d_keepalive
eval $setvar
$rm -f socket socket.c
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/sockopt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endgrent.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_endgrent.U,v $
```

```
?RCS:
?MAKE:d_endgrent: Inlibc
?MAKE: -pick add $@ %<
?S:d_endgrent:
?S: This variable conditionally defines the HAS_ENDGRENT symbol, which
?S: indicates to the C program that the endgrent() routine is available
?S: for sequential access of the group database.
?S:.
?C:HAS_ENDGRENT:
?C: This symbol, if defined, indicates that the getgrent routine is
?C: available for finalizing sequential access of the group database.
?C:.
?H:#$d_endgrent HAS_ENDGRENT  /**/
?H:.
?LINT:set d_endgrent
: see if endgrent exists
set endgrent d_endgrent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_endgrent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: etc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: etc.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:etc etcexp: Getfile Loc Oldconfig
?MAKE: -pick add $@ %<
?S:etc:
?S: This variable holds the name of the directory in which the user wants
?S: to put "administrative" executable images for the package in question.
?S: It is most often a local directory such as /usr/local/etc. Programs
?S: relying on this variable must be prepared to deal with
 ~name
?S: substitutions.
?S:.
```

```
?S:etcexp:
?S: This is the same as the etc variable, but is filename expanded at
?S: configuration time, for convenient use in makefiles.
?S:.
: determine where administrative executables go
case "$etc" in
")
 dflt=`./loc . /local/etc /usr/local/etc /local/etc /usr/etc /etc`
 ;;
*)
 dflt="$etc"
 ;;
esac
fn=d~
rp='Where should the administrative executables go?'
. ./getfile
etc="$ans"
etcexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/etc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vaproto.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Orginal Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: vaproto.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:17:16  ram
?RCS: patch16: definition of _V now appears only when needed
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:59  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:vaproto: prototype i_stdarg Setvar
?MAKE: -pick add $@ %<
?S:vaproto:
?S: This variable conditionally defines CAN_VAPROTO on systems supporting
?S: prototype
```

```
 declaration of functions with a variable number of
?S: arguments. See also prototype.
?S:.
?C:CAN_VAPROTO ~ %<:
?C: This variable is defined on systems supporting prototype declaration
?C: of functions with a variable number of arguments.
?C:.
?C:_V:
?C: This macro is used to declare function parameters in prototypes for
?C: functions with a variable number of parameters. Use double parentheses.
?C: For example:
?C:
?C:  int printf _V((char *fmt, ...));
?C:
?C: Remember to use the plain simple _() macro when declaring a function
?C: with no variable number of arguments, since it might be possible to
?C: have a non-effect _V() macro and still get prototypes via _().
?C:.
?H:?%<:#$vaproto CAN_VAPROTO /**/
?H:?_V:#ifdef CAN_VAPROTO
?H:?_V:#define _V(args) args
?H:?_V:#else
?H:?_V:#define _V(args) ()
?H:?_V:#endif
?H:.
?W:%<:_V
?LINT:set vaproto
: see if prototypes support variable argument declarations
echo " "
case "$prototype$i_stdarg" in
$define$define)
 echo "It appears we'll
 be able to prototype varargs functions." >&4
 val="$define"
 ;;
*)
 echo "Too bad... We won't be using prototyped varargs functions..." >&4
 val="$undef"
 ;;
esac
set vaproto
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/vaproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pause.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_pause.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:09:54  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_pause: Inlibc
?MAKE: -pick add $@ %<
?S:d_pause:
?S: This variable conditionally defines the HAS_PAUSE symbol, which
?S: indicates to the C program that the pause() routine is available
?S: to suspend a process until a signal is received.
?S:.
?C:HAS_PAUSE :
?C: This symbol,
 if defined, indicates that the pause routine is
?C: available to suspend a process until a signal is received.
?C:.
?H:#$d_pause HAS_PAUSE  /**/
?H:.
?LINT:set d_pause
: see if pause exists
set pause d_pause
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_pause.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_memcpy.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memcpy.U,v $
?RCS: Revision 3.0.1.1  1993/09/13  16:02:58  ram
?RCS: patch10: removed text recommending bcopy over memcpy (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:34  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_memcpy: Inlibc
?MAKE: -pick add $@ %<
?S:d_memcpy:
?S: This variable conditionally defines the HAS_MEMCPY symbol, which
?S: indicates to the C program that the memcpy() routine is available
?S: to copy blocks of
 memory.
?S:.
?C:HAS_MEMCPY (MEMCPY):
?C: This symbol, if defined, indicates that the memcpy routine is available
?C: to copy blocks of memory.
?C:.
?H:#$d_memcpy HAS_MEMCPY /**/
?H:.
?LINT:set d_memcpy
: see if memcpy exists
set memcpy d_memcpy
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_memcpy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_fcntl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_fcntl.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:18  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_fcntl: h_fcntl h_sysfile +i_sysfile Inhdr Setvar
```

```
?MAKE: -pick add $@ %<
?S:i_fcntl:
?S: This variable controls the value of I_FCNTL (which tells
?S: the C program to include <fcntl.h>).
?S:.
?C:I_FCNTL (HDR_O_STUFF FCNTL):
?C: This manifest constant tells the C program to include <fcntl.h>.
?C:.
?H:#$i_fcntl I_FCNTL /**/
?H:.
?T:val
?X:
 Make line lists +i_sysfile to ensure tests for <sys/file.h> will be
?X: conducted prior tests for <fcntl.h>, hece making sure the h_sysfile
?X: variable is correctly set when we reach that unit.
?LINT:set i_fcntl
?LINT:use i_sysfile
?LINT:change h_fcntl
: see if fcntl.h is there
val="
set fcntl.h val
eval $inhdr

: see if we can include fcntl.h
case "$val" in
"$define")
 echo " "
 if $h_fcntl; then
  val="$define"
  echo "We'll be including <fcntl.h>." >&4
 else
  val="$undef"
  if $h_sysfile; then
 echo "We don't need to include <fcntl.h> if we include <sys/file.h>." >&4
  else
   echo "We won't be including <fcntl.h>." >&4
  fi
 fi
 ;;
*)
 h_fcntl=false
 val="$undef"
 ;;
esac
set i_fcntl
eval $setvar

Found in path(s):
```

* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_fcntl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: instubperl.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:installusrbinperl: installbin cat bin Myread Setvar test Devel
?MAKE: -pick add $@ %<
?LINT:set installusrbinperl
?Y:TOP
?S:installusrbinperl:
?S: This variable tells whether Perl should be installed also as
?S: /usr/bin/perl in addition to
?S: $installbin/perl
?S:.
?C:INSTALL_USR_BIN_PERL:
?C: This symbol, if defined, indicates that Perl is to be installed
?C: also as /usr/bin/perl.
?C:.
?H:#$installusrbinperl INSTALL_USR_BIN_PERL /**/
?H:.
: determine
 whether to install perl also as /usr/bin/perl

echo " "
if $test -d /usr/bin -a "X$installbin" != X/usr/bin; then
 $cat <<EOM
Many scripts expect perl to be installed as /usr/bin/perl.

If you want to, I can install the perl you are about to compile
as /usr/bin/perl (in addition to $bin/perl).
EOM
 if test -f /usr/bin/perl; then
    $cat <<EOM

However, please note that because you already have a /usr/bin/perl,
overwriting that with a new Perl would very probably cause problems.
Therefore I'm assuming you don't want to do that (unless you insist).

EOM
```

```
    case "$installusrbinperl" in
    "$define"|[yY]*) dflt='y';;
    *)   dflt='n';;
    esac
 else
    $cat <<EOM

Since you don't have a /usr/bin/perl I'm assuming creating one is okay.

EOM
    case "$installusrbinperl" in
    "$undef"|[nN]*) dflt='n';;
    *)   dflt='y';;
    esac
 fi
 rp="Do you want to install perl as /usr/bin/perl?"
 . ./myread
 case "$ans" in
 [yY]*) val="$define";;
 *) val="$undef" ;;
 esac
else
 val="$undef"
fi
set
 installusrbinperl
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/instubperl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_getprpwnam: Inlibc
?MAKE: -pick add $@ %<
?S:d_getprpwnam:
?S: This variable conditionally defines HAS_GETPRPWNAM if getprpwnam() is
?S: available to retrieve protected (shadow) password entries by name.
```

```
?S:.
?C:HAS_GETPRPWNAM:
?C: This symbol, if defined, indicates that the getprpwnam system call is
?C: available to retrieve protected (shadow) password entries by name.
?C:.
?H:#$d_getprpwnam HAS_GETPRPWNAM  /**/
?H:.
?LINT:set d_getprpwnam
: see if getprpwnam exists
set getprpwnam d_getprpwnam
eval $inlibc
```

Found
 in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_getprpwnam.U
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```
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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtold_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtold_l:
?S: This variable conditionally defines the HAS_STRTOLD_L symbol, which
?S: indicates to the C program that the strtold_l() routine is available.
?S:.
?C:HAS_STRTOLD_L:
?C: This symbol, if defined, indicates that the strtold_l routine is
?C: available to convert strings to long doubles.
?C:.
?H:#$d_strtold_l HAS_STRTOLD_L  /**/
?H:.
?LINT:set d_strtold_l
: see if strtold_l exists
set strtold_l d_strtold_l
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_strtold_l.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_normsig.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_normsig.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:37:03  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:14:48  ram
?RCS: patch36: call ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_normsig jobslib: test Setvar Guess _a
?MAKE: -pick add $@ %<
?S:d_normsig:
?S: This variable conditionally
 defines the NORMSIG symbol, which
?S: indicates to the C program that the normal signal handling routines
?S: should be used, as opposed to the ones in 4.1bsd (sigset, etc.).
?S:.
?S:jobslib:
?S: This variable holds the argument to be passed to the loader to include
?S: the strange signal handling routines from 4.1bsd.  On systems that
?S: have NORMSIG defined this variable is null.
?S:.
?C:NORMSIG:
?C: This symbol, if defined, indicates that normal signal handling routines
?C: should be used, as opposed to the ones in 4.1bsd (sigset, etc.).
?C:.
?H:#$d_normsig NORMSIG  /**/
?H:.
?LINT:set d_normsig
: see if we need -ljobs and if we have sigset, etc.
echo " "
if $test -r /usr/lib/libjobs$_a || $test -r /usr/local/lib/libjobs$_a ; then
 echo "Jobs library found." >&4
 val="$undef"
 jobslib='-ljobs'
else
 if ./bsd; then
  echo "No jobs library found. (I suppose this is at least 4.2...)" >&4
```

```
 else
  echo "No jobs library found. (That's okay, we all have our faults.)" >&4
 fi
 val="$define"
 jobslib="
fi
set
 d_normsig
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_normsig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cpp_stuff.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:30:48  ram
?RCS: patch61: added cute quoting trick for wild stringify support
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:08:24  ram
?RCS: patch36: now uses cppstdin instead of plain cpp for consistency (ADO)
?RCS: patch36: remove temporary files when done
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:36  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:cpp_stuff cpp_quote: cat contains cppstdin cppflags cppminus rm Warn \
 package
?MAKE: -pick
 add $@ %<
?S:cpp_stuff:
?S: This variable contains an identification of the catenation mechanism
?S: used by the C preprocessor.
?S:.
?S:cpp_quote:
?S: This variable is set to either "" or " depending on whether the
?S: pre-processor pre-dates ANSI or not.  It is used in the production of
?S: the SQuoTe() and EQuoTe() macros, and was introduced to overcome a bug
```

```
?S: in gcc 3.x whereby the pre-processor complained loudly about the
?S: unterminated strings.
?S:.
?C:CAT2:
?C: This macro catenates 2 tokens together.
?C:.
?C:CAT3:
?C: This macro catenates 3 tokens together.
?C:.
?C:CAT4:
?C: This macro catenates 4 tokens together.
?C:.
?C:CAT5:
?C: This macro catenates 5 tokens together.
?C:.
?C:STRINGIFY:
?C: This macro surrounds its token with double quotes.
?C:.
?C:SCAT2:
?C: This macro catenates 2 tokens together and stringifies the result.
?C:.
?C:SCAT3:
?C: This macro catenates 3 tokens together and stringifies the result.
?C:.
?C:SCAT4:
?C: This macro catenates 4 tokens
 together and stringifies the result.
?C:.
?C:SCAT5:
?C: This macro catenates 5 tokens together and stringifies the result.
?C:.
?H:?%<:#if $cpp_stuff == 1
?H:?CAT2:#define CAT2(a,b)a/**/b
?H:?CAT3:#define CAT3(a,b,c)a/**/b/**/c
?H:?CAT4:#define CAT4(a,b,c,d)a/**/b/**/c/**/d
?H:?CAT5:#define CAT5(a,b,c,d,e)a/**/b/**/c/**/d/**/e
?H:?STRINGIFY:#define STRINGIFY(a)"a"
?H:?%<:#define SQuoTe(a)${cpp_quote}a
?H:?%<:#define EQuoTe(a)a${cpp_quote}
?H:?SCAT2:#define SCAT2(a,b)EQuoTe(SQuoTe(a)b)
?H:?SCAT3:#define SCAT3(a,b,c)EQuoTe(SQuoTe(a)b/**/c)
?H:?SCAT4:#define SCAT4(a,b,c,d)EQuoTe(SQuoTe(a)b/**/c/**/d)
?H:?SCAT5:#define SCAT5(a,b,c,d,e)EQuoTe(SQuoTe(a)b/**/c/**/d/**/e)
?H:?%<:#endif
?H:?%<:#if $cpp_stuff == 42
?X: The additional level of indirection enables these macros to be
?X: used as arguments to other macros.  See K&R 2nd ed., page 231.
?H:?%<:#define CaTiFy(a,b) a ## b
```

```
?H:?%<:#define CAT2(a,b) CaTiFy(a,b)
?H:?CAT3:#define CAT3(a,b,c) CAT2(CaTiFy(a,b),c)
?H:?CAT4:#define CAT4(a,b,c,d)
 CAT2(CaTiFy(a,b), CaTiFy(c,d))
?H:?CAT5:#define CAT5(a,b,c,d,e) CAT2(CAT2(CaTiFy(a,b), CaTiFy(c,d)), e)
?H:?%<:#define StGiFy(a)# a
?H:?STRINGIFY:#define STRINGIFY(a)StGiFy(a)
?H:?SCAT2:#define SCAT2(a,b)StGiFy(a) StGiFy(b)
?H:?SCAT3:#define SCAT3(a,b,c)StGiFy(a) StGiFy(b) StGiFy(c)
?H:?SCAT4:#define SCAT4(a,b,c,d)StGiFy(a) StGiFy(b) StGiFy(c) StGiFy(d)
?H:?SCAT5:#define SCAT5(a,b,c,d,e)StGiFy(a) StGiFy(b) StGiFy(c) StGiFy(d) StGiFy(e)
?H:?%<:#endif
?H:?%<:#if $cpp_stuff != 1 && $cpp_stuff != 42
?H:?%<:#include "Bletch: How does this C preprocessor catenate tokens?"
?H:?%<:#endif
?H:.
?W:%<:CAT2 CAT3 CAT4 CAT5 STRINGIFY SCAT2 SCAT3 SCAT4 SCAT5
?F:!cpp_stuff.c
?LINT:known StGiFy EQuoTe SQuoTe CaTiFy
: how do we catenate cpp tokens here?
echo " "
echo "Checking to see how your cpp does stuff like catenate tokens..." >&4
cpp_quote="
$cat >cpp_stuff.c <<'EOCP'
#define RCAT(a,b)a/**/b
#define ACAT(a,b)a ## b
RCAT(Rei,ser)
ACAT(Cir,cus)
EOCP
$cppstdin $cppflags $cppminus <cpp_stuff.c >cpp_stuff.out
 2>&1
if $contains 'Circus' cpp_stuff.out >/dev/null 2>&1; then
 echo "Oh!  Smells like ANSI's been here."
 echo "We can catify or stringify, separately or together!"
 cpp_stuff=42
elif $contains 'Reiser' cpp_stuff.out >/dev/null 2>&1; then
 echo "Ah, yes!  The good old days!"
 cpp_stuff=1
 $cat >cpp_stuff.c <<'EOCP'
#define SQuoTe(a)"a
#define EQuoTe(a)a"
#define CAT2(a,b)EQuoTe(SQuoTe(a)b)
CAT2(Vic,tory)
EOCP
 $cppstdin $cppflags $cppminus <cpp_stuff.c >cpp_stuff.out 2>&1
 if $contains '"Victory"' cpp_stuff.out >/dev/null 2>&1; then
  echo "I'll resort to a cute trick to also be able to stringify."
  cpp_quote=""
```

```
 else
  $cat <<EOM
However, in the good old days we don't know how to stringify and
catify at the same time...
@if SCAT2 || SCAT3 || SCAT4 || SCAT5
You might have to edit the values of the SCAT[2-5] macros in config.h...
@else
Hopefully, $package does not need this feature.
@end
EOM
 fi
else
 ./warn <<EOM
I can't seem to be able to catenate tokens with your cpp.
@if
 CAT2 || CAT3 || CAT4 || CAT5 || SCAT2 || SCAT3 || SCAT4 || SCAT5
You're going to have to edit the values of the following
macros in config.h:

@if CAT2 || CAT3 || CAT4 || CAT5
 CAT[2-5]
@end
@if SCAT2 || SCAT3 || SCAT4 || SCAT5
 SCAT[2-5]
@end

in order to let me compile.
@end
EOM
 cpp_stuff="/* Help! How do we handle cpp_stuff? */*/"
fi
$rm -f cpp_stuff.*
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/cpp_stuff.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: cf_name.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: cf_name.U,v $
?RCS: Revision 3.0.1.2  1994/05/06  14:29:36  ram
?RCS: patch23: fixed user name computation from /etc/passwd in bsd systems
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:05:11  ram
?RCS: patch16: created
?RCS:
?RCS:
?MAKE:+cf_name: cf_by passcat Filexp nametype cat test
?MAKE: -pick add $@ %<
?S:cf_name:
?S: Full name of the person who ran the Configure script and
 answered the
?S: questions. This can be used by units that require the user's full name.
?S: This variable is for internal use only.
?S:.
?T:xxx fn NAME
: figure out their full name
case "$NAME" in
") case "$nametype" in
 other)
  fn=`./filexp ~/.fullname`
  xxx=usg
  $test -f $fn && xxx=other
  ;;
 *)
  xxx="$nametype"
  ;;
 esac

 case "$xxx" in
 bsd)
  cf_name=`$passcat | grep "^$cf_by:" | \
   sed -e 's/^[^:]*:[^:]*:[^:]*:[^:]*:\([^:]*\):.*/\1/' \
   -e 's/,.*//'`
  ;;
   usg)
  cf_name=`$passcat | grep "^$cf_by:" | \
   sed -e 's/^[^:]*:[^:]*:[^:]*:[^:]*:\([^:]*\):.*/\1/' \
   -e 's/[^-]*-\(.*\)(.*)/\1/'`
  ;;
 *)
  cf_name=`$cat $fn`
  ;;
 esac
 ;;
```

```
*)
 cf_name="$NAME"
 ;;
esac
?X:
?X: In the original unit, Graham asked for the user name, in case the above
?X: code was unable to figure it out correctly. Since now cf_name has been
?X: made an internal variable only (i.e. it is not saved in config.sh), letting
?X: the user override the computed default each time would be a pain.
?X:
 Therefore, I have decided to trust the above code to get it right, and for
?X: those rare cases where it will fail, too bad :-) --RAM.
?X:
echo " "
echo "Pleased to meet you, $cf_name."
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/cf_name.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: floatsize.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:17:09  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:floatsize: cat rm Myread +cc +ccflags
?MAKE: -pick add $@ %<
?S:floatsize:
?S: This variable contains the value of the FLOATSIZE symbol, which
?S: indicates to the C program how many bytes there are in a float.
?S:.
?C:FLOATSIZE:
?C: This symbol contains the size of
 a float, so that the C preprocessor
?C: can make decisions based on it.
```

```
?C:.
?H:#define FLOATSIZE $floatsize  /**/
?H:.
?F:!try
: check for length of float
echo " "
case "$floatsize" in
")
 echo "Checking to see how big your floating point numbers are..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
 printf("%d\n", sizeof(float));
}
EOCP
 if $cc $ccflags -o try try.c >/dev/null 2>&1 ; then
  dflt=`./try`
 else
  dflt='4'
  echo "(I can't seem to compile the test program.  Guessing...)"
 fi
 ;;
*)
 dflt="$floatsize"
 ;;
esac
rp="What is the size of a floating point number (in bytes)?"
. ./myread
floatsize="$ans"
$rm -f try.c try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/floatsize.U
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```
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?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_access.U,v $
```

```
?RCS: Revision 3.0  1993/08/18  12:05:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_access: test +cc cat +cppflags h_fcntl h_sysfile rm Inlibc Findhdr
?MAKE: -pick add $@ %<
?S:d_access:
?S: This variable conditionally defines HAS_ACCESS if the access() system
?S: call is available to check for access permissions using real IDs.
?S:.
?C:HAS_ACCESS:
?C: This manifest constant lets the C program know that the access()
?C: system call is available to check for accessibility
 using real UID/GID.
?C: (always present on UNIX.)
?C:.
?H:#$d_access HAS_ACCESS  /**/
?H:.
?W:%<:R_OK W_OK X_OK F_OK
?LINT:set d_access
?LINT:change h_fcntl h_sysfile
: access call always available on UNIX
set access d_access
eval $inlibc

: locate the flags for 'access()'
case "$d_access" in
"$define")
 echo " "
 $cat >access.c <<'EOCP'
#include <sys/types.h>
#ifdef I_FCNTL
#include <fcntl.h>
#endif
#ifdef I_SYS_FILE
#include <sys/file.h>
#endif
#ifdef I_UNISTD
#include <unistd.h>
#endif
int main() {
 exit(R_OK);
}
EOCP
 : check sys/file.h first, no particular reason here
 if $test `./findhdr sys/file.h` && \
  $cc -o access $cppflags -DI_SYS_FILE access.c >/dev/null 2>&1 ; then
  h_sysfile=true;
  echo "<sys/file.h> defines the *_OK access constants." >&4
```

```
 elif $test `./findhdr fcntl.h` && \
  $cc -o access $cppflags -DI_FCNTL access.c >/dev/null 2>&1 ; then
  h_fcntl=true;
  echo "<fcntl.h> defines the *_OK access constants." >&4
@if I_UNISTD
 elif $test `./findhdr unistd.h`
 && \
  $cc -o access $cppflags -DI_UNISTD access.c >/dev/null 2>&1 ; then
  echo "<unistd.h> defines the *_OK access constants." >&4
@end
 else
  echo "I can't find the four *_OK access constants--I'll use mine." >&4
 fi
 ;;
esac
$rm -f access*
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_access.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: usethreads.U,v $
?RCS:
?RCS: Copyright (c) 1998-2000 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: usethreads.U,v $
?RCS:
?MAKE:usethreads useithreads d_oldpthreads usereentrant: \
 Myread Oldconfig Setvar test cat
?MAKE: -pick add $@ %<
?Y:TOP
?S:usethreads:
?S: This variable conditionally defines the USE_THREADS symbol,
?S: and indicates that Perl should be built to use threads.
?S:.
?S:useithreads:
?S: This variable conditionally defines the USE_ITHREADS symbol,
?S: and indicates that Perl should be built to use the interpreter-based
?S: threading implementation.
?S:.
?X: I'm putting old_pthreads in this unit because it might eventually
?X: be part of an automatic determination to see if we can use threads
?X: at all.
?S:d_oldpthreads:
```

```
?S: This variable conditionally
 defines the OLD_PTHREADS_API symbol,
?S: and indicates that Perl should be built to use the old
?S: draft POSIX threads API.  This is only potentially meaningful if
?S: usethreads is set.
?S:.
?S:usereentrant:
?S: This variable conditionally defines the USE_REENTRANT_API symbol,
?S: which indicates that the thread code may try to use the various
?S: _r versions of library functions.  This is only potentially
?S: meaningful if usethreads is set and is very experimental, it is
?S: not even prompted for.
?S:.
?C:USE_ITHREADS:
?C: This symbol, if defined, indicates that Perl should be built to
?C: use the interpreter-based threading implementation.
?C:.
?C:USE_THREADS:
?C: This symbol, if defined, indicates that Perl should
?C: be built to use threads.  At present, it is a synonym for
?C: and USE_ITHREADS, but eventually the source ought to be
?C: changed to use this to mean _any_ threading implementation.
?C:.
?C:OLD_PTHREADS_API:
?C: This symbol, if defined, indicates that Perl should
?C: be
 built to use the old draft POSIX threads API.
?C:.
?C:USE_REENTRANT_API:
?C: This symbol, if defined, indicates that Perl should
?C: try to use the various _r versions of library functions.
?C: This is extremely experimental.
?C:.
?H:#$useithreads USE_ITHREADS  /**/
?H:#$usethreads  USE_THREADS  /**/
?H:#$d_oldpthreads OLD_PTHREADS_API  /**/
?H:#$usereentrant USE_REENTRANT_API /**/
?H:.
?LINT:set usethreads d_oldpthreads
?INIT:: set usethreads on the Configure command line to enable threads.
?INIT:usereentrant='undef'
?F:!usethreads.cbu
: Do we want threads support and if so, what type
?X: We should really have some explanatory text here, and some
?X: automatic setting of sensible defaults.
case "$usethreads" in
$define|true|[yY]*)     dflt='y';;
*)     # Catch case where user specified ithreads but
```

```
	# forgot -Dusethreads (A.D. 4/2002)
	case "$useithreads" in
	*$define*) dflt='y';;
	*)  dflt='n';;
	esac
	;;
esac
cat <<EOM

Perl can be built to
 offer a form of threading support on some systems
To do so, Configure can be run with -Dusethreads.

Note that Perl built with threading support runs slightly slower
and uses slightly more memory than plain Perl.

If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp='Build a threading Perl?'
. ./myread
case "$ans" in
y|Y)	val="$define" ;;
*)	val="$undef" ;;
esac
set usethreads
eval $setvar

useithreads="$usethreads"

?X: Check out what kind of threads API we have
case "$d_oldpthreads" in
") : Configure tests would be welcome here.  For now, assume undef.
 val="$undef" ;;
*) val="$d_oldpthreads" ;;
esac
set d_oldpthreads
eval $setvar

?X: In general, -lpthread needs to come before -lc but after other
?X: libraries such as -lgdbm and such like. We assume here that -lc
?X: is present in libswanted. If that fails to be true, then this
?X: can be changed to add pthread to the very end of libswanted.

: Look for a hint-file generated 'call-back-unit'.  If the
:
 user has specified that a threading perl is to be built,
: we may need to set or change some other defaults.
if $test -f usethreads.cbu; then
```

```
   echo "Your platform has some specific hints regarding threaded builds, using them..."
   . ./usethreads.cbu
else
   case "$usethreads" in
 "$define"|true|[yY]*)
  $cat <<EOM
(Your platform does not have any specific hints for threaded builds.
Assuming POSIX threads, then.)
EOM
 ;;
   esac
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/usethreads.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_access.U,v 3.0 1993/08/18 12:05:42 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_access.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_access: test +cc cat +cppflags h_fcntl h_sysfile i_stdlib rm Inlibc Findhdr
?MAKE: -pick add $@ %<
?S:d_access:
?S: This variable conditionally defines HAS_ACCESS if the access() system
?S: call is available to check for access permissions using real IDs.
?S:.
?C:HAS_ACCESS:
?C: This manifest constant lets the C program know that the access()
?C: system
 call is available to check for accessibility using real UID/GID.
?C: (always present on UNIX.)
?C:.
?H:#$d_access HAS_ACCESS  /**/
?H:.
?W:%<:R_OK W_OK X_OK F_OK
?LINT:set d_access
```

```
?LINT:change h_fcntl h_sysfile
: access call always available on UNIX
set access d_access
eval $inlibc

: locate the flags for 'access()'
case "$d_access" in
"$define")
 echo " "
 $cat >access.c <<EOCP
#include <sys/types.h>
#ifdef I_FCNTL
#include <fcntl.h>
#endif
#ifdef I_SYS_FILE
#include <sys/file.h>
#endif
#ifdef I_UNISTD
#include <unistd.h>
#endif
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() {
 exit(R_OK);
}
EOCP
 : check sys/file.h first, no particular reason here
 if $test `./findhdr sys/file.h` && \
  $cc -o access $cppflags -DI_SYS_FILE access.c >/dev/null 2>&1 ; then
  h_sysfile=true;
  echo "<sys/file.h> defines the *_OK access constants." >&4
 elif $test `./findhdr fcntl.h` && \
  $cc -o access $cppflags -DI_FCNTL access.c >/dev/null 2>&1 ; then
  h_fcntl=true;
  echo
 "<fcntl.h> defines the *_OK access constants." >&4
@if I_UNISTD
 elif $test `./findhdr unistd.h` && \
  $cc -o access $cppflags -DI_UNISTD access.c >/dev/null 2>&1 ; then
  echo "<unistd.h> defines the *_OK access constants." >&4
@end
 else
  echo "I can't find the four *_OK access constants--I'll use mine." >&4
 fi
 ;;
esac
```

```
$rm -f access*
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_access.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_quad quadtype uquadtype quadkind: \
 longsize intsize d_longlong longlongsize d_int64_t \
 Inhdr Setvar
?MAKE: -pick add $@ %<
?S:d_quad:
?S: This variable, if defined, tells that there's a 64-bit integer type,
?S: quadtype.
?S:.
?S:quadtype:
?S: This variable defines Quad_t to be something like long, int,
?S: long long, int64_t, or whatever type is used for 64-bit integers.
?S:.
?S:quadkind:
?S: This variable, if defined, encodes the type of a quad:
?S: 1 = int, 2 = long, 3 = long long, 4 = int64_t.
?S:.
?S:uquadtype:
?S: This variable defines Uquad_t to be something like unsigned long,
?S: unsigned int, unsigned long long, uint64_t, or whatever type is
?S: used for 64-bit integers.
?S:.
?C:HAS_QUAD:
?C: This
 symbol, if defined, tells that there's a 64-bit integer type,
?C: Quad_t, and its unsigned counterpart, Uquad_t. QUADKIND will be one
?C: of QUAD_IS_INT, QUAD_IS_LONG, QUAD_IS_LONG_LONG, QUAD_IS_INT64_T,
?C: or QUAD_IS___INT64.
?C:.
?H:#$d_quad HAS_QUAD /**/
?H:?%<:#ifdef HAS_QUAD
?H:?%<:#   define Quad_t $quadtype /**/
?H:?%<:#   define Uquad_t $uquadtype /**/
?H:?%<:#   define QUADKIND $quadkind /**/
?H:?%<:#   define QUAD_IS_INT 1
```

```
?H:?%<:#   define QUAD_IS_LONG 2
?H:?%<:#   define QUAD_IS_LONG_LONG 3
?H:?%<:#   define QUAD_IS_INT64_T 4
?H:?%<:#   define QUAD_IS___INT64 5
?H:?%<:#endif
?H:.
?LINT:set quadtype
?LINT:set uquadtype
: Check if 64bit ints have a quad type
echo " "
echo "Checking which 64-bit integer type we could use..." >&4
?X: We prefer quad types in order of int, long, long long, int64_t.

case "$intsize" in
8) val=int
  set quadtype
  eval $setvar
  val='"unsigned int"'
  set uquadtype
  eval $setvar
  quadkind=1
  ;;
*) case "$longsize" in
  8)
 val=long
     set quadtype
     eval $setvar
     val='"unsigned long"'
     set uquadtype
     eval $setvar
     quadkind=2
     ;;
  *) case "$d_longlong:$longlongsize" in
     define:8)
       val='"long long"'
       set quadtype
       eval $setvar
       val='"unsigned long long"'
       set uquadtype
       eval $setvar
       quadkind=3
       ;;
     *) case "$d_int64_t" in
        define)
          val=int64_t
          set quadtype
          eval $setvar
          val=uint64_t
```

```
        set uquadtype
        eval $setvar
        quadkind=4
        ;;
      esac
      ;;
    esac
    ;;
  esac
  ;;
esac

case "$quadtype" in
") echo "Alas, no 64-bit integer types in sight." >&4
 d_quad="$undef"
 ;;
*) echo "We could use '$quadtype' for 64-bit integers." >&4
 d_quad="$define"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/a_dvisory/quadtype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: ptrsize.U,v 3.0.1.1 1994/10/29 16:28:19 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: ptrsize.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:28:19  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:37  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:ptrsize: cat rm_try Myread Compile run use64bitall i_stdlib d_quad
?MAKE: -pick add $@ %<
?S:ptrsize:
?S: This variable contains the value of the PTRSIZE symbol, which
?S: indicates to the C program how many bytes there are in a pointer.
```

```
?S:.
?C:PTRSIZE:
?C: This
 symbol contains the size of a pointer, so that the C preprocessor
?C: can make decisions based on it.  It will be sizeof(void *) if
?C: the compiler supports (void *); otherwise it will be
?C: sizeof(char *).
?C:.
?H:#define PTRSIZE $ptrsize  /**/
?H:.
?F:!try
?LINT:extern use64bitint
: check for length of pointer
echo " "
case "$ptrsize" in
")
 echo "Checking to see how big your pointers are..." >&4
 $cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
{
   printf("%d\n", (int)sizeof(void *));
   exit(0);
}
EOCP
 set try
 if eval $compile_ok; then
  ptrsize=`$run ./try`
  echo "Your pointers are $ptrsize bytes long."
 else
  dflt='4'
  echo "(I can't seem to compile the test program.  Guessing...)" >&4
  rp="What is the size of a pointer (in bytes)?"
  . ./myread
  ptrsize="$ans"
 fi
 ;;
esac
$rm_try
case "$use64bitall" in
"$define"|true|[yY]*)
 case "$ptrsize" in
 4) cat <<EOM >&4
```

```
*** You
 have chosen a maximally 64-bit build,
*** but your pointers are only 4 bytes wide.
*** Please rerun Configure without -Duse64bitall.
EOM
  case "$d_quad" in
  define)
   cat <<EOM >&4
*** Since you have quads, you could possibly try with -Duse64bitint.
EOM
   ;;
  esac
  cat <<EOM >&4
*** Cannot continue, aborting.

EOM

  exit 1
  ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/ptrsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: make.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: make.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:09:40  ram
?RCS: patch61: created
?RCS:
?MAKE:make_set_make : Loc rm sed make
?MAKE: -pick add $@ %<
?S:make_set_make:
?S: Some versions of 'make' set the variable MAKE.  Others do not.
?S: This variable contains the string to be included in Makefile.SH
```

```
?S: so that MAKE is set if needed, and not if not needed.
?S: Possible values are:
?S:
?S: make_set_make='#'  #
 If your make program handles this for you,
?S:
?S: make_set_make="MAKE=$make" # if it doesn't.
?S:
?S: This uses a comment character so that we can distinguish a
?S: 'set' value (from a previous config.sh or Configure -D option)
?S: from an uncomputed value.
?S:.
?LINT: extern MAKE
?LINT: change MAKE
?X: This test is based on one from an autoconf-generated configure
?X: script. Autoconf stole a lot from Configure, but now it's our
?X: turn to do so... ;-) -- RAM, 21/02/97
: check whether make sets MAKE
echo " "
echo "Checking if your $make program sets \$(MAKE)..." >&4
case "$make_set_make" in
")
?X: Use sed so we don't have a line begining with @echo.  Metaconfig
?X: will think that's a command like @if or @end.
 $sed 's/^X //' > testmake.mak << 'EOF'
Xall:
X  @echo 'maketemp="$(MAKE)"'
EOF
?X: GNU make sometimes prints "make[1]: Entering...", which would confuse us
 case "`$make -f testmake.mak 2>/dev/null`" in
 *maketemp=*) make_set_make='#' ;;
 *) make_set_make="MAKE=$make" ;;
 esac
 $rm
 -f testmake.mak
 ;;
esac
case "$make_set_make" in
'#') echo "Yup, it does.";;
*) echo "Nope, it doesn't.";;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/make.U
No license file was found, but licenses were detected in source scan.

?RCS: Id

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: abortsig.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:02:19  ram
?RCS: patch36: call ./usg explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:20  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:abortsig: Myread Oldconfig Guess cat +cc ccflags rm
?MAKE: -pick add $@ %<
?S:abortsig:
?S: This variable holds the name of the signal used by the abort() call.
?S:.
?C:ABORTSIG:
?C: This symbol holds the signal number (symbol) used by the abort() call. To
?C: actually
 define the signal symbol, <signal.h> should be included.
?C:.
?H:#define ABORTSIG $abortsig  /**/
?H:.
?T:signal
: which signal is sent by abort ?
echo " "
case "$abortsig" in
")
 echo "Checking to see which signal is sent to the process by abort()..." >&4
 echo "abort" > abort.sh
 chmod +x abort.sh
?X: SIGABRT should replace SIGIOT on USG machines in a near future (1991).
 for signal in SIGIOT SIGILL SIGABRT; do
  case "$abortsig" in
  ") $cat >abort.c <<EOP
/* FIXME: Missing #include <stdlib.h>*/
#include <signal.h>
caught() { exit(0); } /* FIXME: Use _exit() or _Exit() in signal handler  */
int main()
{
#ifdef $signal
 signal($signal, caught);
#endif
```

```
 if (-1 == abort())
  exit(1);
 exit(1);
}
EOP
?X: We have to use the abort.sh script otherwise sh behaves strangely on AIX.
   if $cc $ccflags -o abort abort.c >/dev/null 2>&1; then
    (./abort.sh) >/dev/null 2>&1
    case $? in
    0) abortsig="$signal";;
    esac
   fi
   ;;
  esac
 done
 ;;
esac
case "$abortsig" in
") echo
 "(I wasn't able to compute the signal name--guessing)"
 if ./usg; then
  dflt="SIGIOT"
 else
  dflt="SIGILL"
 fi;;
*)  dflt="$abortsig"
 ;;
esac
rp="Which signal does abort() send to the process (signal name)?"
. ./myread
abortsig="$ans"
$rm -f core abort.sh abort abort.c
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/abortsig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_socket.U,v 3.0.1.2 1997/02/28 15:46:00 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
```

```
?RCS: $Log: d_socket.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:46:00  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:08:04  ram
?RCS: patch16: can now safely declare private nm_extract in dependencies
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_socket d_oldsock d_sockpair socketlib sockethdr \
 d_msg_ctrunc d_msg_dontroute d_msg_oob d_msg_peek
 d_msg_proxy \
 d_scm_rights d_sockaddr_sa_len d_sockaddr_in6 d_sin6_scope_id \
 d_ip_mreq d_ip_mreq_source d_ipv6_mreq d_ipv6_mreq_source \
 d_sockaddr_storage: \
 contains echo n c ar nm nm_opt nm_extract Inlibc Csym _a \
 Compile cat rm_try Setvar Hasfield sysroot
?MAKE: -pick add $@ %<
?S:d_socket:
?S: This variable conditionally defines HAS_SOCKET, which indicates
?S: that the BSD socket interface is supported.
?S:.
?S:d_sockpair:
?S: This variable conditionally defines the HAS_SOCKETPAIR symbol, which
?S: indicates that the BSD socketpair() is supported.
?S:.
?S:d_oldsock:
?S: This variable conditionally defines the OLDSOCKET symbol, which
?S: indicates that the BSD socket interface is based on 4.1c and not 4.2.
?S:.
?S:d_msg_ctrunc:
?S: This variable conditionally defines the HAS_MSG_CTRUNC symbol,
?S: which indicates that the MSG_CTRUNC is available.  #ifdef is
?S: not enough because it may be an enum, glibc has been known to do this.
?S:.
?S:d_msg_dontroute:
?S: This variable
 conditionally defines the HAS_MSG_DONTROUTE symbol,
?S: which indicates that the MSG_DONTROUTE is available.  #ifdef is
?S: not enough because it may be an enum, glibc has been known to do this.
?S:.
?S:d_msg_oob:
?S: This variable conditionally defines the HAS_MSG_OOB symbol,
?S: which indicates that the MSG_OOB is available.  #ifdef is
?S: not enough because it may be an enum, glibc has been known to do this.
?S:.
?S:d_msg_peek:
```

```
?S: This variable conditionally defines the HAS_MSG_PEEK symbol,
?S: which indicates that the MSG_PEEK is available.  #ifdef is
?S: not enough because it may be an enum, glibc has been known to do this.
?S:.
?S:d_msg_proxy:
?S: This variable conditionally defines the HAS_MSG_PROXY symbol,
?S: which indicates that the MSG_PROXY is available.  #ifdef is
?S: not enough because it may be an enum, glibc has been known to do this.
?S:.
?S:d_scm_rights:
?S: This variable conditionally defines the HAS_SCM_RIGHTS symbol,
?S: which indicates that the SCM_RIGHTS is available.
  #ifdef is
?S: not enough because it may be an enum, glibc has been known to do this.
?S:.
?S:d_sockaddr_sa_len:
?S: This variable conditionally defines the HAS_SOCKADDR_SA_LEN symbol,
?S: which indicates that a struct sockaddr structure has the sa_len
?S: member.
?S:.
?S:d_sockaddr_in6:
?S: This variable conditionally defines the HAS_SOCKADDR_IN6 symbol, which
?S: indicates the availability of a struct sockaddr_in6.
?S:.
?S:d_sockaddr_storage:
?S: This variable conditionally defines the HAS_SOCKADDR_STORAGE symbol,
?S: which indicates the availability of a struct sockaddr_storage.
?S:.
?S:d_sin6_scope_id:
?S: This variable conditionally defines the HAS_SIN6_SCOPE_ID symbol, which
?S: indicates that a struct sockaddr_in6 structure has the sin6_scope_id
?S: member.
?S:.
?S:d_ip_mreq:
?S: This variable conditionally defines the HAS_IP_MREQ symbol, which
?S: indicates the availability of a struct ip_mreq.
?S:.
?S:d_ip_mreq_source:
?S: This variable conditionally defines the HAS_IP_MREQ_SOURCE
 symbol,
?S: which indicates the availability of a struct ip_mreq_source.
?S:.
?S:d_ipv6_mreq:
?S: This variable conditionally defines the HAS_IPV6_MREQ symbol, which
?S: indicates the availability of a struct ipv6_mreq.
?S:.
?S:d_ipv6_mreq_source:
?S: This variable conditionally defines the HAS_IPV6_MREQ_SOURCE symbol,
```

```
?S: which indicates the availability of a struct ipv6_mreq_source.
?S:.
?S:socketlib:
?S: This variable has the names of any libraries needed for socket support.
?S:.
?S:sockethdr:
?S: This variable has any cpp '-I' flags needed for socket support.
?S:.
?C:HAS_SOCKET (SOCKET):
?C: This symbol, if defined, indicates that the BSD socket interface is
?C: supported.
?C:.
?C:HAS_SOCKETPAIR (SOCKETPAIR):
?C: This symbol, if defined, indicates that the BSD socketpair() call is
?C: supported.
?C:.
?C:USE_OLDSOCKET (OLDSOCKET):
?C: This symbol, if defined, indicates that the 4.1c BSD socket interface
?C: is supported instead of the 4.2/4.3 BSD socket interface. For instance,
?C: there
 is no setsockopt() call.
?C:.
?C:HAS_MSG_CTRUNC:
?C: This symbol, if defined, indicates that the MSG_CTRUNC is supported.
?C: Checking just with #ifdef might not be enough because this symbol
?C: has been known to be an enum.
?C:.
?C:HAS_MSG_DONTROUTE:
?C: This symbol, if defined, indicates that the MSG_DONTROUTE is supported.
?C: Checking just with #ifdef might not be enough because this symbol
?C: has been known to be an enum.
?C:.
?C:HAS_MSG_OOB:
?C: This symbol, if defined, indicates that the MSG_OOB is supported.
?C: Checking just with #ifdef might not be enough because this symbol
?C: has been known to be an enum.
?C:.
?C:HAS_MSG_PEEK:
?C: This symbol, if defined, indicates that the MSG_PEEK is supported.
?C: Checking just with #ifdef might not be enough because this symbol
?C: has been known to be an enum.
?C:.
?C:HAS_MSG_PROXY:
?C: This symbol, if defined, indicates that the MSG_PROXY is supported.
?C: Checking just with #ifdef might not be enough because this
 symbol
?C: has been known to be an enum.
?C:.
```

```
?C:HAS_SCM_RIGHTS:
?C: This symbol, if defined, indicates that the SCM_RIGHTS is supported.
?C: Checking just with #ifdef might not be enough because this symbol
?C: has been known to be an enum.
?C:.
?C:HAS_SOCKADDR_SA_LEN:
?C: This symbol, if defined, indicates that the struct sockaddr
?C: structure has a member called sa_len, indicating the length of
?C: the structure.
?C:.
?C:HAS_SOCKADDR_IN6:
?C: This symbol, if defined, indicates the availability of
?C: struct sockaddr_in6;
?C:.
?C:HAS_SOCKADDR_STORAGE:
?C: This symbol, if defined, indicates the availability of
?C: struct sockaddr_storage;
?C:.
?C:HAS_SIN6_SCOPE_ID:
?C: This symbol, if defined, indicates that the struct sockaddr_in6
?C: structure has a member called sin6_scope_id.
?C:.
?C:HAS_IP_MREQ:
?C: This symbol, if defined, indicates the availability of
?C: struct ip_mreq;
?C:.
?C:HAS_IP_MREQ_SOURCE:
?C: This symbol, if defined, indicates the availability of
?C: struct ip_mreq_source;
?C:.
?C:HAS_IPV6_MREQ:
?C: This
 symbol, if defined, indicates the availability of
?C: struct ipv6_mreq;
?C:.
?C:HAS_IPV6_MREQ_SOURCE:
?C: This symbol, if defined, indicates the availability of
?C: struct ipv6_mreq_source;
?C:.
?H:#$d_socket HAS_SOCKET  /**/
?H:#$d_sockpair HAS_SOCKETPAIR /**/
?H:#$d_sockaddr_sa_len HAS_SOCKADDR_SA_LEN /**/
?H:#$d_oldsock USE_OLDSOCKET /**/
?H:#$d_msg_ctrunc HAS_MSG_CTRUNC /**/
?H:#$d_msg_dontroute HAS_MSG_DONTROUTE /**/
?H:#$d_msg_oob HAS_MSG_OOB /**/
?H:#$d_msg_peek HAS_MSG_PEEK /**/
?H:#$d_msg_proxy HAS_MSG_PROXY /**/
```

```
?H:#$d_scm_rights HAS_SCM_RIGHTS /**/
?H:#$d_sockaddr_in6 HAS_SOCKADDR_IN6 /**/
?H:#$d_sockaddr_storage HAS_SOCKADDR_STORAGE /**/
?H:#$d_sin6_scope_id HAS_SIN6_SCOPE_ID /**/
?H:#$d_ip_mreq HAS_IP_MREQ /**/
?H:#$d_ip_mreq_source HAS_IP_MREQ_SOURCE /**/
?H:#$d_ipv6_mreq HAS_IPV6_MREQ /**/
?H:#$d_ipv6_mreq_source HAS_IPV6_MREQ_SOURCE /**/
?H:.
?T:val net ENUM enum
?LINT:set d_sockpair d_sockaddr_sa_len
?LINT:set d_msg_ctrunc d_msg_dontroute
 d_msg_oob d_msg_peek d_msg_proxy
?LINT:set d_scm_rights d_sockaddr_in6 d_sin6_scope_id d_ip_mreq
?LINT:set d_ip_mreq_source d_ipv6_mreq d_ipv6_mreq_source d_sockaddr_storage
: see whether socket exists
socketlib=''
sockethdr=''
echo " "
$echo $n "Hmm... $c" >&4
if set socket val -f d_socket; eval $csym; $val; then
   echo "Looks like you have Berkeley networking support." >&4
   d_socket="$define"
?X: now check for advanced features
   if set setsockopt val -f; eval $csym; $val; then
 d_oldsock="$undef"
   else
 echo "...but it uses the old BSD 4.1c interface, rather than 4.2." >&4
 d_oldsock="$define"
   fi
else
?X: HP-UX, for one, puts all the socket stuff in socklib.o. Note that if we
?X: come here on HP-UX, then we must have used nm to get symbols, or we really
?X: don't have sockets anyway...
   if $contains socklib libc.list >/dev/null 2>&1; then
 echo "Looks like you have Berkeley networking support." >&4
 d_socket="$define"
 : we will have to assume that it supports
 the 4.2 BSD interface
 d_oldsock="$undef"
   else
 echo "You don't have Berkeley networking in libc$_a..." >&4
?X: look for optional networking libraries
 if test "X$d_socket" = "X$define"; then
     echo "...but you seem to believe that you have sockets." >&4
 else
     for net in net socket
     do
```

```
  if test -f $sysroot/usr/lib/lib$net$_a; then
?X: space between two  '(' needed for ksh
      ( ($nm $nm_opt $sysroot/usr/lib/lib$net$_a | eval $nm_extract) ||  \
      $ar t $sysroot/usr/lib/lib$net$_a) 2>/dev/null >> libc.list
      if $contains socket libc.list >/dev/null 2>&1; then
   d_socket="$define"
   socketlib="-l$net"
   case "$net" in
   net)
       echo "...but the Wollongong group seems to have hacked it in." >&4
       sockethdr="-I$sysroot/usr/netinclude"
       ;;
   esac
   echo "Found Berkeley sockets interface in lib$net." >&4
?X: now check for advanced features
   if $contains setsockopt libc.list >/dev/null 2>&1; then
       d_oldsock="$undef"
   else
       echo
 "...using the old BSD 4.1c interface, rather than 4.2." >&4
       d_oldsock="$define"
   fi
   break
      fi
  fi
     done
     if test "X$d_socket" != "X$define"; then
        echo "or anywhere else I see." >&4
        d_socket="$undef"
        d_oldsock="$undef"
     fi
 fi
   fi
fi

@if HAS_SOCKETPAIR || d_sockpair
: see if socketpair exists
set socketpair d_sockpair
eval $inlibc

@end

echo "Checking the availability sa_len in the sock struct ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
int main() {
struct sockaddr sa;
```

```
return (sa.sa_len);
}
EOF
val="$undef"
set try; if eval $compile; then
   val="$define"
fi
set d_sockaddr_sa_len; eval $setvar
$rm_try

echo "Checking the availability struct sockaddr_in6 ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct sockaddr_in6 sin6;
return (sin6.sin6_family);
}
EOF
val="$undef"
set try; if eval $compile; then
   val="$define"
fi
set d_sockaddr_in6;
 eval $setvar
$rm_try

echo "Checking the availability struct sockaddr_storage ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct sockaddr_storage sastor;
return (sastor.ss_family);
}
EOF
val="$undef"
set try; if eval $compile; then
   val="$define"
fi
set d_sockaddr_storage; eval $setvar
$rm_try

echo "Checking the availability sin6_scope_id in struct sockaddr_in6 ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
```

```
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct sockaddr_in6 sin6;
return (sin6.sin6_scope_id);
}
EOF
val="$undef"
set try; if eval $compile; then
   val="$define"
fi
set d_sin6_scope_id; eval $setvar
$rm_try

echo "Checking the availability struct ip_mreq ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct ip_mreq mreq;
return (mreq.imr_multiaddr.s_addr);
}
EOF
val="$undef"
set try; if eval $compile; then

 val="$define"
fi
set d_ip_mreq; eval $setvar
$rm_try

echo "Checking the availability struct ip_mreq_source ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct ip_mreq_source mreq;
return (mreq.imr_multiaddr.s_addr);
}
EOF
val="$undef"
set try; if eval $compile; then
     val="$define"
fi
set d_ip_mreq_source; eval $setvar
$rm_try
```

```
echo "Checking the availability struct ipv6_mreq ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct ipv6_mreq mreq;
return (mreq.ipv6mr_interface);
}
EOF
val="$undef"
set try; if eval $compile; then
   val="$define"
fi
set d_ipv6_mreq; eval $setvar
$rm_try

echo "Checking the availability struct ipv6_mreq_source ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct ipv6_mreq_source mreq;
return (mreq.imr_multiaddr.s_addr);
}
EOF
val="$undef"
set try; if eval $compile;
 then
      val="$define"
fi
set d_ipv6_mreq_source; eval $setvar
$rm_try

?X: these constants are known to be troublesomely defined as enums
?X: so that ifdef will not work for detecting their presence.
echo "Checking the availability of certain socket constants..." >&4
for ENUM in MSG_CTRUNC MSG_DONTROUTE MSG_OOB MSG_PEEK MSG_PROXY SCM_RIGHTS; do
   enum=`$echo $ENUM|./tr '[A-Z]' '[a-z]'`
   $cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
int main() {
   int i = $ENUM;
}
EOF
```

```
   val="$undef"
   set try; if eval $compile; then
 val="$define"
   fi
   set d_${enum}; eval $setvar
   $rm_try
done
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_socket.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_regcmp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_regcmp.U,v $
?RCS: Revision 3.0.1.1  1995/01/30  14:34:45  ram
?RCS: patch49: now looks for POSIX regcomp() routine
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:53  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_regcmp d_re_comp d_regcomp: Csym cat
?MAKE: -pick add $@ %<
?S:d_regcomp:
?S: This variable conditionally defines the HAS_REGCOMP symbol, which
?S: indicates to the C program that the regcomp() routine is available
?S: for regular
 pattern matching (usually on POSIX.2 conforming systems).
?S:.
?S:d_regcmp:
?S: This variable conditionally defines the HAS_REGCMP symbol, which
?S: indicates to the C program that the regcmp() routine is available
?S: for regular pattern matching (usually on System V).
?S:.
?S:d_re_comp:
?S: This variable conditionally defines the HAS_RECOMP symbol, which
?S: indicates to the C program that the re_comp() routine is available
?S: for regular pattern matching (usually on BSD). If so, it is likely that
?S: re_exec() exists.
```

```
?S:.
?C:HAS_REGCOMP (REGCOMP):
?C: This symbol, if defined, indicates that the regcomp() routine is
?C: available to do some regular pattern matching (usually on POSIX.2
?C: conforming systems).
?C:.
?C:HAS_REGCMP (REGCMP):
?C: This symbol, if defined, indicates that the regcmp() routine is
?C: available to do some regular pattern matching (usually on System V).
?C:.
?C:HAS_RECOMP (RECOMP):
?C: This symbol, if defined, indicates that the re_comp() routine is
?C: available
 to do some regular pattern matching (usually on BSD). If so,
?C: it is likely that re_exec() be available.
?C:.
?H:#$d_regcomp HAS_REGCOMP  /* POSIX.2 */
?H:#$d_regcmp HAS_REGCMP  /* sysV */
?H:#$d_re_comp HAS_RECOMP  /* BSD */
?H:.
?T:val
: see if regcomp, regcmp, or re_comp exist, for regular pattern matching
echo " "
if set regcomp val -f d_regcomp; eval $csym; $val; then
 echo 'regcomp() found.' >&4
 d_regcomp="$define"
 d_regcmp="$undef"
 d_re_comp="$undef"
elif set regcmp val -f d_regcmp; eval $csym; $val; then
 echo 'regcmp() found.' >&4
 d_regcmp="$define"
 d_regcomp="$undef"
 d_re_comp="$undef"
elif set re_comp val -f d_re_comp; eval $csym; $val; then
 echo 're_comp() found, assuming re_exec() also exists.' >&4
 d_re_comp="$define"
 d_regcomp="$undef"
 d_regcmp="$undef"
else
 $cat >&4 <<EOM
No regcomp(), regcmp() nor re_comp() found !! No regular pattern matching.
EOM
 d_regcmp="$undef"
 d_re_comp="$undef"
 d_regcomp="$undef"
fi
```

Found in path(s):

* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_regcmp.U
No license file was found, but licenses were detected in source scan.

```
case $CONFIG in
")
 if test -f config.sh; then TOP=.;
 elif test -f ../config.sh; then TOP=..;
 elif test -f ../../config.sh; then TOP=../..;
 elif test -f ../../../config.sh; then TOP=../../..;
 elif test -f ../../../../config.sh; then TOP=../../../..;
 else
  echo "Can't find config.sh."; exit 1
 fi
 . $TOP/config.sh
 ;;
esac
case "$0" in
*/*) cd `expr X$0 : 'X\(.*\)/'` ;;
esac
echo "Extracting makedepend (with variable substitutions)"
$spitshell >makedepend <<!GROK!THIS!
$startsh
# $Id: makedepend.sh,v 3.0.1.1 1994/01/24 14:00:05 ram Exp ram $
#
#  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
#
#  You may redistribute only under the terms of the Artistic Licence,
#  as specified in the README file that comes with the distribution.
#  You may reuse parts of this distribution only within the terms of
#  that same Artistic Licence; a copy of which may be found at the root
#  of the source tree for dist 4.0.
#
#
 Original Author: Larry Wall <lwall@netlabs.com>
#
# $Log: makedepend.sh,v $
# Revision 3.0.1.1  1994/01/24  14:00:05  ram
# patch16: changed top ln-style config.sh lookup into test-style one
#
# Revision 3.0  1993/08/18  12:04:37  ram
# Baseline for dist 3.0 netwide release.
#

export PATH || (echo "OOPS, this isn't sh.  Desperation time.  I will feed myself to sh."; sh \$0; kill \$\$)

cat='$cat'
cppflags='$cppflags'
```

```
cp='$cp'
cpp='$cppstdin'
echo='$echo'
egrep='$egrep'
expr='$expr'
mv='$mv'
rm='$rm'
sed='$sed'
sort='$sort'
test='$test'
tr='$tr'
uniq='$uniq'
!GROK!THIS!

$spitshell >>makedepend <<'!NO!SUBS!'

$cat /dev/null >.deptmp
$rm -f *.c.c c/*.c.c
if test -f Makefile; then
   mf=Makefile
else
   mf=makefile
fi
if test -f $mf; then
   defrule=`<$mf sed -n  \
 -e '/^\.c\.o:.*;/{'  \
 -e    's/\$\*\.c//'  \
 -e    's/^[^;]*;[  ]*//p' \
 -e    q    \
 -e '}'    \
 -e '/^\.c\.o: *$/{'  \
 -e    N    \
 -e    's/\$\*\.c//'  \
 -e    's/^.*\n[  ]*//p'  \
 -e    q    \
 -e '}'`
fi
case
 "$defrule" in
") defrule='$(CC) -c $(CFLAGS)' ;;
esac

make clist || ($echo "Searching for .c files..."; \
 $echo *.c | $tr ' ' '\012' | $egrep -v '\*' >.clist)
gotnone=true
for file in `$cat .clist`; do
# for file in `cat /dev/null`; do
   case "$file" in
```

```
  *.c) filebase=`basename $file .c` ;;
  *.y) filebase=`basename $file .c` ;;
  ")  continue ;;
  esac
  gotnone=false
  $echo "Finding dependencies for $filebase.o."
  $sed -n <$file >$file.c \
 -e "/^${filebase}_init(/q" \
 -e '/^#/{' \
 -e 's|/\*.*$||' \
 -e 's|\\$||' \
 -e p \
 -e '}'
  $cpp -I/usr/local/include -I. $cppflags $file.c | \
  $sed \
 -e '/^# *[0-9]/!d' \
 -e 's/^.*"\(.*\)".*$/'$filebase'.o: \1/' \
 -e 's|: \./|: |' \
 -e 's|\.c\.c|.c|' | \
  $uniq | $sort | $uniq >> .deptmp
done

$sed <Makefile >Makefile.new -e '1,/^# AUTOMATICALLY/!d'

make shlist || ($echo "Searching for .SH files..."; \
 $echo *.SH | $tr ' ' '\012' | $egrep -v '\*' >.shlist)
if $gotnone || $test -s .deptmp; then

  for file in `cat .shlist`; do
 $echo `$expr X$file : 'X\(.*\).SH`: $file config.sh \; \
    /bin/sh $file >> .deptmp
  done
  $echo "Updating Makefile..."
  $echo "# If this runs make out of memory, delete /usr/include lines." \
 >> Makefile.new
  $sed 's|^\(.*\.o:\) *\(.*/.*\.c\) *$|\1 \2; '"$defrule \2|" .deptmp \
     >>Makefile.new
else
  make hlist || ($echo "Searching for .h files..."; \
 $echo *.h | $tr ' ' '\012' | $egrep -v '\*' >.hlist)
  $echo "You don't seem to have a proper C preprocessor.  Using grep instead."
  $egrep '^#include ' `cat .clist` `cat .hlist`  >.deptmp
  $echo "Updating Makefile..."
  <.clist $sed -n       \
 -e '/\//{'       \
 -e   's|^\(.*\)/\(.*\)\.c|\2.o: \1/\2.c; '"$defrule \1/\2.c|p" \
 -e   d        \
 -e '}'        \
```

```
 -e 's|^\(.*\)\.c|\1.o: \1.c|p' >> Makefile.new
   <.hlist $sed -n 's|\(.*/\)\(.*\)|s= \2= \1\2=|p' >.hsed
   <.deptmp $sed -n 's|c:#include "\(.*\)".*$|o: \1|p' | \
      $sed 's|^[^;]*/||' | \
      $sed -f
 .hsed >> Makefile.new
   <.deptmp $sed -n 's|c:#include <\(.*\)>.*$|o: /usr/include/\1|p' \
      >> Makefile.new
   <.deptmp $sed -n 's|h:#include "\(.*\)".*$|h: \1|p' | \
      $sed -f .hsed >> Makefile.new
   <.deptmp $sed -n 's|h:#include <\(.*\)>.*$|h: /usr/include/\1|p' \
      >> Makefile.new
   for file in `$cat .shlist`; do
 $echo `$expr X$file : 'X\(.*\).SH`: $file config.sh \; \
     /bin/sh $file >> Makefile.new
   done
fi
$rm -f Makefile.old
$cp Makefile Makefile.old
$cp Makefile.new Makefile
$rm Makefile.new
$echo "# WARNING: Put nothing here or make depend will gobble it up!" >> Makefile
$rm -f .deptmp `sed 's/\.c/.c.c/' .clist` .shlist .clist .hlist .hsed

!NO!SUBS!
$eunicefix makedepend
chmod +x makedepend
case `pwd` in
*SH)
   $rm -f ../makedepend
   ln makedepend ../makedepend
   ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/lib/makedepend.SH
No license file was found, but licenses were detected in source scan.

* Feel free to modify any of this as the need arises. Note, however,

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/metaconfig.html
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:

```
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isnan: Inlibc cat Compile rm_try Setvar
?MAKE: -pick add $@ %<
?S:d_isnan:
?S: This variable conditionally defines the HAS_ISNAN symbol, which
?S: indicates to the C program that the isnan() routine is available.
?S:.
?C:HAS_ISNAN:
?C: This symbol, if defined, indicates that the isnan routine is
?C: available to check whether a double is a NaN.
?C:.
?H:#$d_isnan HAS_ISNAN  /**/
?H:.
?LINT:set d_isnan
: check for isnan
echo "Checking to see if you have isnan..." >&4
$cat >try.c <<EOCP
#include <math.h>
int main() { return isnan(0.0); }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have isnan."
else
 val="$undef"
 echo "You do not have isnan."
fi
$rm_try
set d_isnan
eval $setvar
```

Found
 in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_isnan.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sunmath.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
?MAKE:i_sunmath: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sunmath:
?S: This variable conditionally defines the I_SUNMATH symbol, and indicates
?S: whether a C program should include <sunmath.h>.
?S:.
?C:I_SUNMATH:
?C: This symbol, if defined, indicates that <sunmath.h> exists and
?C: should be included.
?C:.
?H:#$i_sunmath I_SUNMATH  /**/
?H:.
?LINT:set i_sunmath
: see if this is a sunmath.h system
set sunmath.h i_sunmath
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_sunmath.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_finite: Inlibc
?MAKE: -pick add $@ %<
?S:d_finite:
?S: This variable conditionally defines the HAS_FINITE symbol, which
?S: indicates to the C program that the finite() routine is available.
?S:.
?C:HAS_FINITE:
?C: This symbol, if defined, indicates that the finite routine is
?C: available to check whether a double is finite (non-infinity non-NaN).
?C:.
?H:#$d_finite HAS_FINITE  /**/
?H:.
?LINT:set d_finite
: see if finite exists
set finite d_finite
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_finite.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_nan: Inlibc
?MAKE: -pick add $@ %<
?S:d_nan:
?S: This variable conditionally defines HAS_NAN if nan() is
?S: available to generate NaN.
?S:.
?C:HAS_NAN:
?C: This symbol, if defined, indicates that the nan routine is
?C: available to generate NaN.
?C:.
?H:#$d_nan HAS_NAN  /**/
?H:.
?LINT:set d_nan
: see if nan exists
set nan d_nan
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_nan.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_statfs_s: \
 Hasstruct i_sysparam i_sysmount i_systypes \
 i_sysvfs i_sysstatfs Setvar
?MAKE: -pick add $@ %<
?S:d_statfs_s:
?S: This variable conditionally defines the HAS_STRUCT_STATFS symbol,
?S: which indicates that the struct statfs is supported.
?S:.
?C:HAS_STRUCT_STATFS:
?C: This symbol, if defined, indicates that the struct statfs
?C: to do statfs() is supported.
?C:.
```

```
?H:#$d_statfs_s HAS_STRUCT_STATFS /**/
?H:.
?LINT:set d_statfs_s
: Check for statfs_s
echo " "
echo "Checking to see if your system supports struct statfs..." >&4
set d_statfs_s statfs $i_systypes sys/types.h $i_sysparam sys/param.h $i_sysmount sys/mount.h $i_sysvfs sys/vfs.h
$i_sysstatfs sys/statfs.h
eval $hasstruct
case "$d_statfs_s"
 in
"$define")      echo "Yes, it does."   ;;
*)              echo "No, it doesn't." ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_statfs_s.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS:
?X:
?X: This unit is just a quick shorthand for the compile command
?X: to be used in all the other metaconfig units.
?X:
?MAKE:Compile: +cc +optimize +ccflags +ldflags +libs
?MAKE: -pick add $@ %<
?LINT:define compile compile_ok
?V:compile compile_ok mc_file
?S:compile:
?S: This shell variable is used internally
 by Configure to provide
?S: a convenient shorthand for the typical compile command, namely
```

```
?S: $cc $optimize $ccflags $ldflags -o $1 $1.c $libs > /dev/null 2>&1
?S: Note that the output filename does _not_ include the _exe
?S: extension.  Instead we assume that the linker will be
?S: "helpful" and automatically appending the correct suffix.
?S: OS/2 users will apparently need to supply the -Zexe flag to
?S: get this behavior.
?S:
?S: To use this variable, say something like:
?S:  echo 'int main() { exit(0); }' > try.c
?S:  set try
?S:  if eval $compile; then
?S:   echo "success"   # and do whatever . . .
?S:  else
?S:   echo "failure"   # and do whatever . . .
?S:  fi
?S: To add extra flags cc flags (e.g. -DWHATEVER) just put them
?S: in $*, e.g.
?S:  set try -DTRY_THIS_FLAG
?S:.
?S:compile_ok:
?S: This shell variable is used internally by Configure to provide
?S: a convenient shorthand for the typical compile command that you
?S: expect to work ok.  It is the same as $compile,
 except we
?S: deliberately let the user see any error messages.
?S:.
: define a shorthand compile call
compile='
mc_file=$1;
shift;
$cc -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs > /dev/null 2>&1;'
: define a shorthand compile call for compilations that should be ok.
compile_ok='
mc_file=$1;
shift;
$cc -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs;'
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Compile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strctcpy.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:34  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strctcpy: cat rm_try cc Setvar
?MAKE: -pick add $@ %<
?S:d_strctcpy:
?S: This variable conditionally defines the USE_STRUCT_COPY symbol, which
?S: indicates to the C program that this C compiler knows how to copy
?S: structures.
?S:.
?C:USE_STRUCT_COPY (STRUCTCOPY):
?C: This symbol, if defined, indicates that this C compiler knows how
?C: to copy structures.  If undefined, you'll
 need to use a block copy
?C: routine of some sort instead.
?C:.
?H:#$d_strctcpy USE_STRUCT_COPY /**/
?H:.
?LINT:set d_strctcpy
: check for structure copying
echo " "
echo "Checking to see if your C compiler can copy structs..." >&4
$cat >try.c <<'EOCP'
int main()
{
 struct blurfl {
  int dyick;
 } foo, bar;

 foo = bar;
}
EOCP
if $cc -c try.c >/dev/null 2>&1 ; then
 val="$define"
 echo "Yup, it can."
else
 val="$undef"
 echo "Nope, it can't."
fi
set d_strctcpy
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strctcpy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strcspn.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strcspn.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:33  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strcspn: Inlibc
?MAKE: -pick add $@ %<
?S:d_strcspn:
?S: This variable conditionally defines the HAS_STRCSPN symbol, which
?S: indicates to the C program that the strcspn() routine is available
?S: to scan strings.
?S:.
?C:HAS_STRCSPN (STRCSPN):
?C: This symbol, if defined, indicates that the strcspn routine is
?C: available to scan
 strings.
?C:.
?H:#$d_strcspn HAS_STRCSPN  /**/
?H:.
?LINT:set d_strcspn
: see if strcspn exists
set strcspn d_strcspn
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strcspn.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorman1dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorman1dir.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorman1dir vendorman1direxp installvendorman1dir: man1dir Getfile \
 Oldconfig Setprefixvar Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorman1dir:
?S: This variable contains the name of the directory for man1
?S: pages.  It may have a ~ on the front.
?S: The standard distribution will put nothing in this directory.
?S: Vendors
 who distribute perl may wish to place their own
?S: man1 pages in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorman1direxp:
?S: This variable is the ~name expanded version of vendorman1dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorman1dir="
?S:installvendorman1dir:
?S: This variable is really the same as vendorman1direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorman1dir
: Set the vendorman1dir variables
case "$vendorprefix" in
") vendorman1dir="
 vendorman1direxp="
 ;;
*) : determine where vendor-supplied manual pages go.
 case "$vendorman1dir" in
 ") dflt=`echo "$man1dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
 *) dflt=$vendorman1dir ;;
 esac
 case "$dflt" in
 "|' ') dflt=none ;;
 esac
```

```
 fn=nd~+
 rp='Pathname for
 the vendor-supplied manual section 1 pages?'
 . ./getfile
 vendorman1dir="$ans"
 vendorman1direxp="$ansexp"
 ;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorman1dir" = "X" && vendorman1dir=' '
prefixvar=vendorman1dir
. ./installprefix
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/vendorman1dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: lex.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Orginal Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: lex.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:22:50  ram
?RCS: patch36: spurious single quote could cause Configure to crash
?RCS: patch36: (reported by Xavier Le Vourch <xavierl@eiffel.com>.)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:27:09  ram
?RCS: patch32: added lexflags variable for lex flags setting
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:06:01  ram
?RCS: patch23: added
 trailing blank line for metalint
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lex lexflags: Guess Myread Oldconfig flex test
?MAKE: -pick add $@ %<
?S:lex:
```

```
?S: This variable holds the name of the lexical analyser generator we
?S: want to use in the Makefile. It can be lex or flex.
?S:.
?S:lexflags:
?S: This variable holds any flags that should be passed to the lexical
?S: analyzer.  It is up to the Makefile to use it.
?S:.
: determine lexical analyser generator
case "$lex" in
")
 dflt=lex;;
*)
 dflt="$lex";;
esac
echo " "
if $test -f "$flex"; then
 rp='Which lexical analyser generator (lex or flex) shall I use?'
else
 rp='Which lexical analyser generator shall I use?'
fi
. ./myread
lex="$ans"

@if lexflags
: if using lex this will normally be useless, but flex frequently takes args
echo " "
case "$lexflags" in
") dflt='none';;
*) dflt="$lexflags";;
esac
rp="What flags should be given to $lex?"
. ./myread
case "$ans"
 in
none) lexflags=";;
*) lexflags="$ans";;
esac

@end
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/lex.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
```

```
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_off64_t: \
 Inlibc Setvar Compile rm_try cat lseeksize
?MAKE: -pick add $@ %<
?S:d_off64_t:
?S: This symbol will be defined if the C compiler supports off64_t.
?S:.
?C:HAS_OFF64_T:
?C: This symbol will be defined if the C compiler supports off64_t.
?C:.
?H:#$d_off64_t HAS_OFF64_T  /**/
?H:.
?LINT:set d_off64_t
: check for off64_t
echo " "
echo "Checking to see if you have off64_t..." >&4
$cat >try.c <<EOCP
#include <sys/types.h>
#include <unistd.h>
int main() { off64_t x = 7; }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have off64_t."
else
 val="$undef"
 echo "You do not have off64_t."
 case "$lseeksize" in
 8) echo "(Your off_t is 64 bits, so you could use that.)" ;;
 esac
fi
$rm_try
set
 d_off64_t
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_off64_t.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: prefix.U,v $
?RCS: Revision 3.0.1.2  1995/01/30  14:44:05  ram
?RCS: patch49: new prefixexp variable holding a fully expanded prefix
?RCS: patch49: save off previous prefix value in oldprefix if changed (WED)
?RCS: patch49: added the INSTALLPREFIX define for C programs to use (WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:31:34  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:prefix prefixexp +oldprefix: Getfile Loc Oldconfig
 cat package
?MAKE: -pick add $@ %<
?S:prefix:
?S: This variable holds the name of the directory below which the
?S: user will install the package.  Usually, this is /usr/local, and
?S: executables go in /usr/local/bin, library stuff in /usr/local/lib,
?S: man pages in /usr/local/man, etc.  It is only used to set defaults
?S: for things in bin.U, mansrc.U, privlib.U, or scriptdir.U.
?S:.
?S:prefixexp:
?S: This variable holds the full absolute path of the directory below
?S: which the user will install the package.  Derived from prefix.
?S:.
?S:oldprefix:
?S: This variable is set non-null if the prefix was previously defined
?S: and gets set to a new value. Used internally by Configure only.
?S:.
?C:INSTALLPREFIX:
?C: This symbol contains the name of the install prefix for this package.
?C:.
?H:#define INSTALLPREFIX "$prefix"  /**/
?H:.
: determine root of directory hierarchy where package will be installed.
case "$prefix" in
")
 dflt=`./loc . /usr/local /usr/local /local /opt
 /usr`
 ;;
*)
```

```
 dflt="$prefix"
 ;;
esac
$cat <<EOM

By default, $package will be installed in $dflt/bin, manual
pages under $dflt/man, etc..., i.e. with $dflt as prefix for
all installation directories. Typically set to /usr/local, but you
may choose /usr if you wish to install $package among your system
binaries. If you wish to have binaries under /bin but manual pages
under /usr/local/man, that's ok: you will be prompted separately
for each of the installation directories, the prefix being only used
to set the defaults.

EOM
fn=d~
rp='Installation prefix to use?'
. ./getfile
oldprefix=''
case "$prefix" in
'') ;;
*)
 case "$ans" in
 "$prefix") ;;
 *) oldprefix="$prefix";;
 esac
 ;;
esac
prefix="$ans"
prefixexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/prefix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_systwgcf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_systwgcf.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:39  ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_systwgcf: Inhdr
?MAKE: -pick add $@ %<
?S:i_systwgcf:
?S: This variable conditionally defines the I_SYS_TWG_CF symbol, and
?S: indicates whether a C program should include sys/twg_config.h.
?S:.
?C:I_SYS_TWG_CF:
?C: This symbol, if defined, indicates to the C program that it should
?C: include sys/twg_config.h.
?C:.
?H:#$i_systwgcf
 I_SYS_TWG_CF /**/
?H:.
?LINT:set i_systwgcf
: see if this is a sys/twg_config.h system
set sys/twg_config.h i_systwgcf
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_systwgcf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_havetlib.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_havetlib.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:36:31  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: likewise for .o replaced by $_o
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:44:06  ram
?RCS: patch23: added AIX support to accept shared lib stub as termlib (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_havetlib termlib: cat contains Myread Loc
```

```
 Filexp Oldconfig libpth \
 test uname _a _o
?MAKE: -pick add $@ %<
?S:d_havetlib:
?S: This variable conditionally defines the HAS_TERMLIB symbol, which
?S: indicates to the C program that termlib-style routines are available.
?S:.
?S:termlib:
?S: This variable contains the argument to pass to the loader to get
?S: termlib-style routines.  It is up to the Makefile.SH to make sure
?S: the value gets to the right command.  Note that on many systems the
?S: termlib routines are emulated by the curses or terminfo library.
?S:.
?C:HAS_TERMLIB (HAVETERMLIB):
?C: This symbol, when defined, indicates that termlib-style routines
?C: are available.  There is nothing to include.
?C:.
?H:#$d_havetlib HAS_TERMLIB /**/
?H:.
?T:xxx
: where do we get termlib routines from
echo " "
xxx=`./loc libcurses$_a x $libpth`
case "$xxx" in
/*)
 ar t $xxx >grimble
 if $contains tputs$_o grimble >/dev/null 2>&1; then
  termlib='-lcurses'
  d_havetlib="$define"
  echo "Terminfo library found." >&4
 elif $test "x`$uname
 2>/dev/null`" = xAIX; then
  # Ok, do the AIX shr.o fun thing
  /usr/ccs/bin/nm -en $xxx 2>/dev/null >grimble
  if $contains '^tputs .*|extern|' grimble >/dev/null 2>&1; then
   termlib='-lcurses'
   d_havetlib="$define"
   echo "AIX Terminfo library found." >&4
  else
   xxx=x
  fi
 else
  xxx=x
 fi
 rm -f grimble
 ;;
esac
case "$xxx" in
```

```
x)
 xxx=`./loc libtermlib$_a x $libpth`
 case "$xxx" in
 /usr/lib*|/lib*)
  termlib='-ltermlib'
  d_havetlib="$define"
  echo "Termlib library found." >&4
  ;;
 /*)
  termlib="$xxx"
  d_havetlib="$define"
  echo "Termlib library found." >&4
  ;;
 *)
  xxx=`./loc libtermcap$_a x $libpth`
  case "$xxx" in
  /usr/lib*|/lib*)
   termlib='-ltermcap'
   d_havetlib="$define"
   echo "Termcap library found." >&4
   ;;
  /*)
   termlib="$xxx"
   d_havetlib="$define"
   echo "Termcap library found." >&4
   ;;
  *)
   case "$termlib" in
   ")
    dflt=y
rp="Your system appears to NOT have termlib-style routines. Is this true?"
    . ./myread
    case "$ans"
 in
    n*|f*) d_havetlib="$define"
     $cat <<'EOM'
Then where are the termlib-style routines kept? Specify either -llibname
or a full pathname (~name ok).

EOM
     dflt="
     rp='Specify termlib path:'
     . ./myread
     termlib=`./filexp $ans`
     ;;
    *)
     d_havetlib="$undef"
     termlib="
```

```
    echo "You will have to play around with term.c then." >&4
    ;;
   esac
  echo " ";;
  *)  echo "You said termlib was $termlib before." >&4;;
  esac;;
 esac;;
esac;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_havetlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_inttypes: Inhdr cat rm_try Setvar Compile
?MAKE: -pick add $@ %<
?S:i_inttypes:
?S: This variable conditionally defines the I_INTTYPES symbol,
?S: and indicates whether a C program should include <inttypes.h>.
?S:.
?C:I_INTTYPES:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <inttypes.h>.
?C:.
?H:#$i_inttypes   I_INTTYPES                /**/
?H:.
?LINT:set i_inttypes
: see if inttypes.h is available
: we want a real compile instead of Inhdr because some systems
: have an inttypes.h
 which includes non-existent headers
echo " "
$cat >try.c <<EOCP
#include <inttypes.h>
int main() {
 static int32_t foo32 = 0x12345678;
}
```

```
EOCP
set try
if eval $compile; then
 echo "<inttypes.h> found." >&4
 val="$define"
else
 echo "<inttypes.h> NOT found." >&4
 val="$undef"
fi
$rm_try
set i_inttypes
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_inttypes.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_dosuid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Tye McQueen <tye@metronet.com> added safe setuid script checks.
?RCS:
?RCS: $Log: d_dosuid.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:33:03  ram
?RCS: patch61: moved unit to TOP via a ?Y: layout directive
?RCS: patch61: tell them /dev/fd is not about floppy disks
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:12:08  ram
?RCS: patch36: added checks for secure setuid scripts (Tye McQueen)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:55  ram
?RCS: Baseline for
 dist 3.0 netwide release.
?RCS:
?MAKE:d_dosuid d_suidsafe: cat contains ls rm test Myread Setvar \
 Oldconfig Guess package hint patchlevel
?MAKE: -pick add $@ %<
?S:d_suidsafe:
?S: This variable conditionally defines SETUID_SCRIPTS_ARE_SECURE_NOW
?S: if setuid scripts can be secure.  This test looks in /dev/fd/.
```

```
?S:.
?S:d_dosuid:
?S: This variable conditionally defines the symbol DOSUID, which
?S: tells the C program that it should insert setuid emulation code
?S: on hosts which have setuid #! scripts disabled.
?S:.
?C:SETUID_SCRIPTS_ARE_SECURE_NOW:
?C: This symbol, if defined, indicates that the bug that prevents
?C: setuid scripts from being secure is not present in this kernel.
?C:.
?C:DOSUID:
?C: This symbol, if defined, indicates that the C program should
?C: check the script that it is executing for setuid/setgid bits, and
?C: attempt to emulate setuid/setgid on systems that have disabled
?C: setuid #! scripts because the kernel can't do it securely.
?C: It is up to the package
 designer to make sure that this emulation
?C: is done securely.  Among other things, it should do an fstat on
?C: the script it just opened to make sure it really is a setuid/setgid
?C: script, it should make sure the arguments passed correspond exactly
?C: to the argument on the #! line, and it should not trust any
?C: subprocesses to which it must pass the filename rather than the
?C: file descriptor of the script to be executed.
?C:.
?H:#$d_suidsafe SETUID_SCRIPTS_ARE_SECURE_NOW /**/
?H:#$d_dosuid DOSUID  /**/
?H:.
?Y:TOP
?F:!reflect
?LINT: set d_suidsafe
: see if setuid scripts can be secure
$cat <<EOM

Some kernels have a bug that prevents setuid #! scripts from being
secure.  Some sites have disabled setuid #! scripts because of this.

First let's decide if your kernel supports secure setuid #! scripts.
(If setuid #! scripts would be secure but have been disabled anyway,
don't say that they are secure if asked.)

EOM

val="$undef"
if $test -d /dev/fd; then
 echo "#!$ls" >reflect
 chmod
 +x,u+s reflect
 ./reflect >flect 2>&1
```

```
 if $contains "/dev/fd" flect >/dev/null; then
  echo "Congratulations, your kernel has secure setuid scripts!" >&4
  val="$define"
 else
  $cat <<EOM
If you are not sure if they are secure, I can check but I'll need a
username and password different from the one you are using right now.
If you don't have such a username or don't want me to test, simply
enter 'none'.

EOM
  rp='Other username to test security of setuid scripts with?'
  dflt='none'
  . ./myread
  case "$ans" in
  n|none)
   case "$d_suidsafe" in
   ") echo "I'll assume setuid scripts are *not* secure." >&4
    dflt=n;;
   "$undef")
    echo "Well, the $hint value is *not* secure." >&4
    dflt=n;;
   *) echo "Well, the $hint value *is* secure." >&4
    dflt=y;;
   esac
   ;;
  *)
   $rm -f reflect flect
   echo "#!$ls" >reflect
   chmod +x,u+s reflect
   echo >flect
   chmod a+w flect
   echo "'su" will (probably) prompt you for "'$ans's password."
   su $ans -c './reflect
 >flect'
   if $contains "/dev/fd" flect >/dev/null; then
    echo "Okay, it looks like setuid scripts are secure." >&4
    dflt=y
   else
    echo "I don't think setuid scripts are secure." >&4
    dflt=n
   fi
   ;;
  esac
  rp='Does your kernel have *secure* setuid scripts?'
  . ./myread
  case "$ans" in
  [yY]*) val="$define";;
```

```
  *) val="$undef";;
  esac
 fi
else
 echo "I don't think setuid scripts are secure (no /dev/fd directory)." >&4
 echo "(That's for file descriptors, not floppy disks.)"
 val="$undef"
fi
set d_suidsafe
eval $setvar

$rm -f reflect flect

: now see if they want to do setuid emulation
if $test $patchlevel -lt 11; then
echo " "
val="$undef"
case "$d_suidsafe" in
"$define")
 val="$undef"
 echo "No need to emulate SUID scripts since they are secure here." >&4
 ;;
*)
 $cat <<EOM
Some systems have disabled setuid scripts, especially systems where
setuid scripts cannot be secure.  On systems where setuid scripts have
been disabled, the setuid/setgid bits on scripts are
 currently
useless.  It is possible for $package to detect those bits and emulate
setuid/setgid in a secure fashion.  This emulation will only work if
setuid scripts have been disabled in your kernel.

EOM
 case "$d_dosuid" in
 "$define") dflt=y ;;
 *) dflt=n ;;
 esac
 rp="Do you want to do setuid/setgid emulation?"
 . ./myread
 case "$ans" in
 [yY]*) val="$define";;
 *) val="$undef";;
 esac
 ;;
esac
set d_dosuid
eval $setvar
else
```

```
   case "$d_dosuid" in
 "$define")
 cat >&4 <<EOH

SUID emulation has been removed for 5.12
Please re-run Configure without -Dd_dosuid

EOH
 exit 1;
 ;;
   esac
   d_dosuid=undef
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_dosuid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Oldconfig.U,v 3.0.1.10 1997/02/28 15:06:39 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Oldconfig.U,v $
?RCS: Revision 3.0.1.10  1997/02/28  15:06:39  ram
?RCS: patch61: added support for src.U
?RCS: patch61: new OSNAME define
?RCS: patch61: can now sense new OSes
?RCS:
?RCS: Revision 3.0.1.9  1995/07/25  13:40:51  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.8  1995/05/12  12:04:18  ram
?RCS: patch54: config.sh reload logic now knows about new -K switch
?RCS: patch54: cleaned up and extended osvers for DEC
 OSF/1 (ADO)
?RCS: patch54: added MachTen detection (ADO)
?RCS:
?RCS: Revision 3.0.1.7  1995/02/15  14:13:41  ram
?RCS: patch51: adapted osvers computation for AIX (ADO)
?RCS:
?RCS: Revision 3.0.1.6  1995/01/30  14:27:15  ram
```

```
?RCS: patch49: unit Options.U now exports file optdef.sh, not a variable
?RCS: patch49: update code for myuname changed (WED)
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:15:36  ram
?RCS: patch45: added quotes around the INITPROG variable (ADO)
?RCS: patch45: allows variable overriding after config file loading
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  15:57:05  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: merged with the version used for perl5's Configure (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/05/06  14:24:17  ram
?RCS: patch23: added support for osf1 hints
?RCS: patch23: new support for solaris and i386 systems (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:05:02  ram
?RCS: patch16: added post-processing on myuname for Xenix targets
?RCS:
 patch16: message proposing config.sh defaults made consistent
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  15:56:32  ram
?RCS: patch10: force use of config.sh when -d option is used (WAD)
?RCS: patch10: complain about non-existent hint files (WAD)
?RCS: patch10: added Options dependency for fastread variable
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:12  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit tries to remember what we did last time we ran Configure, mostly
?X: for the sake of setting defaults.
?X:
?MAKE:Oldconfig hint myuname osname osvers: Instruct Myread uname \
 Checkcc Mksymlinks run \
 sh awk sed test cat rm lns tr n c contains Loc Options Tr src trnl ln
?MAKE: -pick wipe $@ %<
?S:myuname:
?S: The output of 'uname -a' if available, otherwise the hostname.
?S: The whole thing is then lower-cased and slashes and single quotes are
?S: removed.
?S:.
?S:hint:
?S: Gives the type of hints used for previous answers. May be one of
?S: "default",
 "recommended" or "previous".
?S:.
?S:osname:
?S: This variable contains the operating system name (e.g. sunos,
```

```
?S: solaris, hpux, etc.).  It can be useful later on for setting
?S: defaults.  Any spaces are replaced with underscores.  It is set
?S: to a null string if we can't figure it out.
?S:.
?S:osvers:
?S: This variable contains the operating system version (e.g.
?S: 4.1.3, 5.2, etc.).  It is primarily used for helping select
?S: an appropriate hints file, but might be useful elsewhere for
?S: setting defaults.  It is set to '' if we can't figure it out.
?S: We try to be flexible about how much of the version number
?S: to keep, e.g. if 4.1.1, 4.1.2, and 4.1.3 are essentially the
?S: same for this package, hints files might just be os_4.0 or
?S: os_4.1, etc., not keeping separate files for each little release.
?S:.
?C:OSNAME:
?C: This symbol contains the name of the operating system, as determined
?C: by Configure.  You shouldn't rely on it too much; the specific
?C: feature tests
 from Configure are generally more reliable.
?C:.
?C:OSVERS:
?C: This symbol contains the version of the operating system, as determined
?C: by Configure.  You shouldn't rely on it too much; the specific
?C: feature tests from Configure are generally more reliable.
?C:.
?H:#define OSNAME "$osname"  /**/
?H:#define OSVERS "$osvers"  /**/
?H:.
?F:!config.sh
?T:tmp tmp_n tmp_c tmp_sh file
?T:xxxxfile xxxfile xxfile xfile hintfile newmyuname
?T:tans _ isesix INITPROG DJGPP
?D:osname=''
?LINT:change n c sh
?LINT:extern targetarch
?LINT:extern hostarch
?LINT:change hostarch
?LINT:extern is_os2
: Try to determine whether config.sh was made on this system
case "$config_sh" in
'')
?X: indentation wrong on purpose--RAM
?X: Leave a white space between first two '(' for ksh. The sub-shell is needed
?X: on some machines to avoid the error message when uname is not found; e.g.
?X: old SUN-OS 3.2 would not execute hostname in (uname -a || hostname). Sigh!
?X: Now not using a subshell but instead $test.
myuname=`$uname
```

```
 -a 2>/dev/null`
$test -z "$myuname" && myuname=`hostname 2>/dev/null`
# Downcase everything to avoid ambiguity.
# Remove slashes and single quotes so we can use parts of this in
# directory and file names.
# Remove newlines so myuname is sane to use elsewhere.
# tr '[A-Z]' '[a-z]' would not work in EBCDIC
# because the A-Z/a-z are not consecutive.
myuname=`echo $myuname | $sed -e "s,['/],,g" | \
 ./tr '[A-Z]' '[a-z]' | $tr $trnl ' '`
?X: Save the value we just computed to reset myuname after we get done here.
newmyuname="$myuname"
dflt=n
case "$knowitall" in
")
 if test -f ../config.sh; then
  if $contains myuname= ../config.sh >/dev/null 2>&1; then
   eval "`grep myuname= ../config.sh`"
  fi
  if test "X$myuname" = "X$newmyuname"; then
   dflt=y
  fi
 fi
 ;;
*) dflt=y;;
esac

@if {test -d ../hints}
: Get old answers from old config file if Configure was run on the
: same system, otherwise use the hints.
hint=default
cd ..
?X: Since we are now at the root of the source
 tree, we must use $src
?X: to access the sources and not $rsrc. See src.U for details...
if test -f config.sh; then
 echo " "
 rp="I see a config.sh file.  Shall I use it to set the defaults?"
 . UU/myread
 case "$ans" in
 n*|N*) echo "OK, I'll ignore it."
  mv config.sh config.sh.old
  myuname="$newmyuname"
  ;;
 *)  echo "Fetching default answers from your old config.sh file..." >&4
  tmp_n="$n"
  tmp_c="$c"
  tmp_sh="$sh"
```

```
  . ./config.sh
  cp config.sh UU
  n="$tmp_n"
  c="$tmp_c"
  : Older versions did not always set $sh.  Catch re-use of such
  : an old config.sh.
  case "$sh" in
  ") sh="$tmp_sh" ;;
  esac
  hint=previous
  ;;
 esac
fi
. ./UU/checkcc
if test ! -f config.sh; then
 $cat <<EOM

First time through, eh?  I have some defaults handy for some systems
that need some extra help getting the Configure answers right:

EOM
 (cd $src/hints; ls -C *.sh) | $sed 's/\.sh/   /g' >&4
 dflt="
 : Half the following guesses are probably wrong... If you have better
 : tests or hints,
 please send them to <MAINTLOC>
 : The metaconfig authors would also appreciate a copy...
 $test -f /irix && osname=irix
 $test -f /xenix && osname=sco_xenix
 $test -f /dynix && osname=dynix
 $test -f /dnix && osname=dnix
 $test -f /lynx.os && osname=lynxos
 $test -f /unicos && osname=unicos && osvers=`$uname -r`
 $test -f /unicosmk && osname=unicosmk && osvers=`$uname -r`
 $test -f /unicosmk.ar && osname=unicosmk && osvers=`$uname -r`
 $test -f /bin/mips && /bin/mips && osname=mips
 $test -d /usr/apollo/bin && osname=apollo
 $test -f /etc/saf/_sactab && osname=svr4
 $test -d /usr/include/minix && osname=minix && osvers=`$uname -r`
 $test -f /system/gnu_library/bin/ar.pm && osname=vos
 $test -f /sys/utilities/MultiView && osname=amigaos
 if $test -d /MachTen -o -d /MachTen_Folder; then
?X:  MachTen uname -a output looks like
?X:  xxx 4 0.0 Macintosh
?X:  MachTen /sbin/version output looks like
?X:  MachTen 4.0 Mon Aug 28 10:18:00 1995
?X:  MachTen 3.x had the 'version' command in /usr/etc/version.
  osname=machten
```

```
 if
$test -x /sbin/version; then
  osvers=`/sbin/version | $awk '{print $2}' |
  $sed -e 's/[A-Za-z]$//'`
 elif $test -x /usr/etc/version; then
  osvers=`/usr/etc/version | $awk '{print $2}' |
  $sed -e 's/[A-Za-z]$//'`
 else
  osvers="$2.$3"
 fi
fi

$test -f /sys/posix.dll &&
 $test -f /usr/bin/what &&
 set X `/usr/bin/what /sys/posix.dll` &&
 $test "$3" = UWIN &&
 osname=uwin &&
 osvers="$5"

?X: If we have uname, we already computed a suitable uname -a output,
?X: and it lies in $myuname.
 if $test -f $uname; then
 set X $myuname
 shift

 case "$5" in
 fps*) osname=fps ;;
 mips*)
  case "$4" in
  umips) osname=umips ;;
  *) osname=mips ;;
  esac;;
 [23]100) osname=mips ;;
?X: Interactive Unix.
 i386*)
  tmp=`/bin/uname -X 2>/dev/null|awk '/3\.2v[45]/{ print $(NF) }'`
  if $test "$tmp" != "" -a "$3" = "3.2" -a -f '/etc/systemid'; then
   osname='sco'
   osvers=$tmp
  elif $test -f /etc/kconfig; then
   osname=isc
   if
 test "$lns" = "$ln -s"; then
    osvers=4
   elif $contains _SYSV3 /usr/include/stdio.h > /dev/null 2>&1 ; then
    osvers=3
   elif $contains _POSIX_SOURCE /usr/include/stdio.h > /dev/null 2>&1 ; then
    osvers=2
```

```
   fi
  fi
  tmp=''
  ;;
?X: MS-DOS djgpp uname -a output looks like:
?X: ms-dos xxx 6 22 pc
?X:  $1 is the "dos flavor" (need not be "ms-dos").
?X:  $2 is the node name
?X:  $3 and $4 are version/subversion
?X:  $5 is always "pc", but that might not be unique to DJGPP.
?X: (e.g. Solaris_x86 has $5 = i86pc, which doesn't actually conflict,
?X: but it's close enough that I can easily imagine other vendors also
?X: using variants of pc* in $5.)
?X:  The "DJGPP" environment variable is always set when djgpp is active.
  pc*)
  if test -n "$DJGPP"; then
   osname=dos
   osvers=djgpp
  fi
  ;;
  esac

  case "$1" in
  aix) osname=aix
?X: aix 4.1 uname -a output looks like
?X:  AIX  foo  1 4 000123456789
?X: where $4 is the major release number and $3 is the (minor)
 version.
?X: More detail on the version is available with the oslevel command.
?X: in 3.2.x, it output a string (see case statements below).  In 4.1,
?X: it puts out something like  4.1.1.0
  tmp=`( (oslevel) 2>/dev/null || echo "not found") 2>&1`
  case "$tmp" in
  # oslevel can fail with:
  # oslevel: Unable to acquire lock.
  *not\ found) osvers="$4"."$3" ;;
  '<3240'|'<>3240') osvers=3.2.0 ;;
  '=3240'|'>3240'|'<3250'|'<>3250') osvers=3.2.4 ;;
  '=3250'|'>3250') osvers=3.2.5 ;;
  *) osvers=$tmp;;
  esac
  ;;
  bitrig) osname=bitrig
  osvers="$3"
  ;;
  bsd386) osname=bsd386
  osvers=`$uname -r`
  ;;
```

```
  cygwin*) osname=cygwin
   osvers="$3"
   ;;
  *dc.osx) osname=dcosx
   osvers="$3"
   ;;
  dnix) osname=dnix
   osvers="$3"
   ;;
  domainos) osname=apollo
   osvers="$3"
   ;;
  dgux) osname=dgux
   osvers="$3"
   ;;
  dragonfly) osname=dragonfly
   osvers="$3"
   ;;
?X:  uname -a returns
?X:  DYNIX/ptx xxx 4.0 V4.1.2 i386
  dynixptx*) osname=dynixptx
   osvers=`echo
 "$4"|sed 's/^v//'`
   ;;
  freebsd) osname=freebsd
   osvers="$3" ;;
  genix) osname=genix ;;
?X: GNU/Hurd uname -a gives something like:
?X: GNU foo 0.3 GNU-Mach 1.4/Hurd-0.3 i386-AT386 GNU
?X: GNU gnu 0.3 GNUmach-1.2/Hurd-0.3 i386-AT386 GNU
?X: Note the hostname on the second one, which will fool Configure
?X: into using the SysV case!
  gnu) osname=gnu
   osvers="$3" ;;
?X: HP-UX uname -a gives something like
?X: HP-UX foobar B.10.20 A 9000/735 2016483812 two-user license
?X: Preserve the full 10.20 string instead of the previous plain '10'.
?X:  Thanks to Graham Barr.    --AD 6/30/1998
  hp*) osname=hpux
   osvers=`echo "$3" | $sed 's,.*\.\([0-9]*\.[0-9]*\),\1,'`
   ;;
  irix*) osname=irix
   case "$3" in
   4*) osvers=4 ;;
   5*) osvers=5 ;;
   *) osvers="$3" ;;
   esac
   ;;
```

```
 linux) osname=linux
  case "$3" in
  *) osvers="$3" ;;
  esac
  $test -f /system/lib/libandroid.so && osname=linux-android
  ;;
 MiNT) osname=mint
  ;;
 minix) osname=minix
  osvers=`$uname -r`
  ;;
 netbsd*)
osname=netbsd
  osvers="$3"
  ;;
 news-os) osvers="$3"
  case "$3" in
  4*) osname=newsos4 ;;
  *) osname=newsos ;;
  esac
  ;;
 nonstop-ux) osname=nonstopux ;;
 openbsd) osname=openbsd
  osvers="$3"
  ;;
 os2) osname=os2
  osvers="$4"
  ;;
 POSIX-BC | posix-bc ) osname=posix-bc
  osvers="$3"
  ;;
 powerux | power_ux | powermax_os | powermaxos | \
 powerunix | power_unix) osname=powerux
  osvers="$3"
  ;;
 qnx) osname=qnx
  osvers="$4"
  ;;
 solaris) osname=solaris
  case "$3" in
  5*) osvers=`echo $3 | $sed 's/^5/2/g'` ;;
  *) osvers="$3" ;;
  esac
  ;;
 sunos) osname=sunos
  case "$3" in
  5*) osname=solaris
   osvers=`echo $3 | $sed 's/^5/2/g'` ;;
```

```
  *) osvers="$3" ;;
  esac
  ;;
 titanos) osname=titanos
  case "$3" in
  1*) osvers=1 ;;
  2*) osvers=2 ;;
  3*) osvers=3 ;;
  4*) osvers=4 ;;
  *) osvers="$3" ;;
  esac
  ;;
 ultrix) osname=ultrix
  osvers="$3"
  ;;
 osf1|mls+) case "$5" in
   alpha)
?X: DEC OSF/1 myuname
 -a output looks like:  osf1 xxxx t3.2 123.4 alpha
?X: where the version number can be something like [xvt]n.n
    osname=dec_osf
?X: sizer knows the minor minor version: the letter
    osvers=`sizer -v | awk -FUNIX '{print $2}' | awk '{print $1}' |  tr '[A-Z]' '[a-z]' | sed 's/^[xvt]//'`
    case "$osvers" in
    [1-9].[0-9]*) ;;
    *) osvers=`echo "$3" | sed 's/^[xvt]//'` ;;
    esac
    ;;
  hp*) osname=hp_osf1 ;;
  mips) osname=mips_osf1 ;;
?X: hp and mips were unsupported Technology Releases -- ADO, 24/10/94
  esac
  ;;
 # UnixWare 7.1.2 is known as Open UNIX 8
 openunix|unixware) osname=svr5
  osvers="$4"
  ;;
 uts) osname=uts
  osvers="$3"
  ;;
 vos) osvers="$3"
  ;;
 $2) case "$osname" in
  *isc*) ;;
  *freebsd*) ;;
  svr*)
   : svr4.x or possibly later
   case "svr$3" in
```

```
  ${osname}*)
   osname=svr$3
   osvers=$4
   ;;
  esac
  case "$osname" in
  svr4.0)
   : Check for ESIX
   if test -f /stand/boot ; then
    eval `grep '^INITPROG=[a-z/0-9]*$'
/stand/boot`
    if test -n "$INITPROG" -a -f "$INITPROG"; then
  isesix=`strings -a $INITPROG|grep 'ESIX SYSTEM V/386 Release 4.0'`
     if test -n "$isesix"; then
      osname=esix4
     fi
    fi
   fi
   ;;
  esac
  ;;
 *) if test -f /etc/systemid; then
   osname=sco
   set `echo $3 | $sed 's/\./ /g'` $4
   if $test -f $src/hints/sco_$1_$2_$3.sh; then
    osvers=$1.$2.$3
   elif $test -f $src/hints/sco_$1_$2.sh; then
    osvers=$1.$2
   elif $test -f $src/hints/sco_$1.sh; then
    osvers=$1
   fi
  else
   case "$osname" in
   ") : Still unknown.  Probably a generic Sys V.
    osname="sysv"
    osvers="$3"
    ;;
   esac
  fi
  ;;
 esac
 ;;
*) case "$osname" in
 ") : Still unknown.  Probably a generic BSD.
  osname="$1"
  osvers="$3"
  ;;
 esac
```

```
  ;;
 esac
else
?X: Try to identify sony's NEWS-OS (BSD unix)
 if test -f /vmunix -a -f $src/hints/news_os.sh; then
  (what /vmunix | UU/tr '[A-Z]'
'[a-z]') > UU/kernel.what 2>&1
  if $contains news-os UU/kernel.what >/dev/null 2>&1; then
   osname=news_os
  fi
  $rm -f UU/kernel.what
?X: Maybe it's OS/2 or DOS or something similar
 elif test -d c:/. -o -n "$is_os2" ; then
  set X $myuname
  osname=os2
  osvers="$5"
 fi
fi

    case "$targetarch" in
    ") ;;
    *)  hostarch=$osname
       case "$targetarch" in
          nto*|*-nto-*)
             # Will load qnx.sh, which should change osname to nto
             osname=qnx
             osvers="
             ;;
          *linux-android*)
             # Catch arm-linux-androideabi, mipsel-linux-android,
             # and i686-linux-android
             osname=linux-android
             osvers="
             ;;
          *linux*)
             # Something like arm-linux-gnueabihf is really just
             # plain linux.
             osname=linux

             osvers="
             ;;
          *solaris*|*sunos*)
             osname=solaris
             # XXX perhaps we should just assume
             # osvers to be 2, or maybe take the value
             # from targetarch. Using $run before the
             # hints are run is somewhat icky.
             set X `$run $uname -a 2>/dev/null`
```

```
                shift
                case "$3" in
                    5*) osvers=`echo $3 | $sed 's/^5/2/g'` ;;
                    *)  osvers="$3" ;;
                esac
                ;;
            *)
    osname=`echo $targetarch|sed 's,^[^-]*-,,'`
    osvers=''
            ;;
        esac
        ;;
    esac

: Now look for a hint file osname_osvers, unless one has been
: specified already.
case "$hintfile" in
''|' ')
 file=`echo "${osname}_${osvers}" | $sed -e 's%\.%_%g' -e 's%_$%%'`
 : Also try without trailing minor version
numbers.
 xfile=`echo $file | $sed -e 's%_[^_]*$%%'`
 xxfile=`echo $xfile | $sed -e 's%_[^_]*$%%'`
 xxxfile=`echo $xxfile | $sed -e 's%_[^_]*$%%'`
 xxxxfile=`echo $xxxfile | $sed -e 's%_[^_]*$%%'`
 case "$file" in
 '') dflt=none ;;
 *)  case "$osvers" in
  '') dflt=$file
   ;;
  *)  if $test -f $src/hints/$file.sh ; then
    dflt=$file
   elif $test -f $src/hints/$xfile.sh ; then
    dflt=$xfile
   elif $test -f $src/hints/$xxfile.sh ; then
    dflt=$xxfile
   elif $test -f $src/hints/$xxxfile.sh ; then
    dflt=$xxxfile
   elif $test -f $src/hints/$xxxxfile.sh ; then
    dflt=$xxxxfile
   elif $test -f "$src/hints/${osname}.sh" ; then
    dflt="${osname}"
   else
    dflt=none
   fi
   ;;
  esac
  ;;
```

```
  esac
  if $test -f Policy.sh ; then
   case "$dflt" in
   *Policy*) ;;
   none) dflt="Policy" ;;
   *) dflt="Policy $dflt" ;;
   esac
  fi
  ;;
 *)
  dflt=`echo $hintfile | $sed 's/\.sh$//'`
  ;;
 esac

 if $test -f Policy.sh ; then
  $cat <<EOM

There's also
 a Policy hint file available, which should make the
site-specific (policy) questions easier to answer.
EOM

 fi

 $cat <<EOM

You may give one or more space-separated answers, or "none" if appropriate.
If you have a handcrafted Policy.sh file or a Policy.sh file generated by a
previous run of Configure, you may specify it as well as or instead of
OS-specific hints.  If hints are provided for your OS, you should use them:
although Perl can probably be built without hints on many platforms, using
hints often improve performance and may enable features that Configure can't
set up on its own. If there are no hints that match your OS, specify "none";
DO NOT give a wrong version or a wrong OS.

EOM

 rp="Which of these apply, if any?"
 . UU/myread
 tans=$ans
 for file in $tans; do
  if $test X$file = XPolicy -a -f Policy.sh; then
   . Policy.sh
   $cat Policy.sh >> UU/config.sh
  elif $test -f $src/hints/$file.sh; then
   . $src/hints/$file.sh
   $cat $src/hints/$file.sh >> UU/config.sh
  elif
```

```
 $test X"$tans" = X -o X"$tans" = Xnone ; then
   : nothing
  else
   : Give one chance to correct a possible typo.
   echo "$file.sh does not exist"
   dflt=$file
   rp="hint to use instead?"
   . UU/myread
   for file in $ans; do
    if $test -f "$src/hints/$file.sh"; then
     . $src/hints/$file.sh
     $cat $src/hints/$file.sh >> UU/config.sh
    elif $test X$ans = X -o X$ans = Xnone ; then
     : nothing
    else
     echo "$file.sh does not exist -- ignored."
    fi
   done
  fi
 done

 hint=recommended
 : Remember our hint file for later.
 if $test -f "$src/hints/$file.sh" ; then
  hintfile="$file"
 else
  hintfile=''
 fi
fi
cd UU
?X: From here on, we must use $rsrc instead of $src
@else
: Get old answers, if there is a config file out there
hint=default
hintfile=''
if test -f ../config.sh; then
 echo " "
 rp="I see a config.sh file.  Shall I use it to set the defaults?"
 . ./myread
 case "$ans" in
 n*|N*) echo "OK, I'll ignore it.";;
 *)  echo "Fetching default answers from
 your old config.sh file..." >&4
  tmp_n="$n"
  tmp_c="$c"
  . ../config.sh
  cp ../config.sh .
  n="$tmp_n"
```

```
  c="$tmp_c"
  hint=previous
  ;;
 esac
fi
@end
?X: remember, indentation is wrong--RAM
;;
*)
 echo " "
 echo "Fetching default answers from $config_sh..." >&4
 tmp_n="$n"
 tmp_c="$c"
 cd ..
?X: preserve symbolic links, if any
 cp $config_sh config.sh 2>/dev/null
 chmod +w config.sh
 . ./config.sh
 cd UU
 cp ../config.sh .
 n="$tmp_n"
 c="$tmp_c"
 hint=previous
 ;;
esac
. ./optdef.sh

: Restore computed paths
for file in $loclist $trylist; do
 eval $file="\$_$file"
done

@if osname || osvers
cat << EOM

Configure uses the operating system name and version to set some defaults.
The default value is probably right if the name rings a bell. Otherwise,
since spelling matters for me, either accept the default or answer "none"
to leave it blank.

EOM
@end
@if osname
case "$osname" in
 "|' ')
  case "$hintfile" in
  "|' '|none) dflt=none ;;
  *)  dflt=`echo $hintfile | $sed -e 's/\.sh$//'
```

```
 -e 's/_.*$//'` ;;
  esac
  ;;
 *) dflt="$osname" ;;
esac
rp="Operating system name?"
. ./myread
case "$ans" in
none)  osname=" ;;
*) osname=`echo "$ans" | $sed -e 's/[  ][ ]*/_/g' | ./tr '[A-Z]' '[a-z]'`;;
esac
@end
@if osvers
@if osname
echo " "
@end
case "$osvers" in
 "|' ')
  case "$hintfile" in
  "|' '|none) dflt=none ;;
  *) dflt=`echo $hintfile | $sed -e 's/\.sh$//' -e 's/^[^_]*//'`
   dflt=`echo $dflt | $sed -e 's/^_//' -e 's/_./g'`
   case "$dflt" in
   "|' ') dflt=none ;;
   esac
   ;;
  esac
  ;;
 *) dflt="$osvers" ;;
esac
rp="Operating system version?"
. ./myread
case "$ans" in
none)  osvers=" ;;
*) osvers="$ans" ;;
esac

@end

. ./posthint.sh
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Oldconfig.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_getpgid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:

```
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getpgid.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:33:44  ram
?RCS: patch61: created
?RCS:
?MAKE:d_getpgid: Inlibc
?MAKE: -pick add $@ %<
?S:d_getpgid:
?S: This variable conditionally defines the HAS_GETPGID symbol, which
?S: indicates to the C program that the getpgid(pid) function
?S: is available to get the process group id.
?S:.
?C:HAS_GETPGID:
?C: This symbol, if defined, indicates to the C program
 that
?C: the getpgid(pid) function is available to get the
?C: process group id.
?C:.
?H:#$d_getpgid HAS_GETPGID  /**/
?H:.
?LINT:set d_getpgid
: see if getpgid exists
set getpgid d_getpgid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getpgid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
```

```
?MAKE:i_machcthr: Inhdr usethreads
?MAKE: -pick add $@ %<
?S:i_machcthr:
?S: This variable conditionally defines the I_MACH_CTHREADS symbol,
?S: and indicates whether a C program should include <mach/cthreads.h>.
?S:.
?C:I_MACH_CTHREADS:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <mach/cthreads.h>.
?C:.
?H:#$i_machcthr   I_MACH_CTHREADS /**/
?H:.
: see if mach cthreads are available
if test "X$usethreads" = "X$define"; then
 set mach/cthreads.h i_machcthr
 eval $inhdr
else
 i_machcthr="$undef"
fi
```

Found
 in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/i_machcthr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endprotoent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_endprotoent_r endprotoent_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_endprotoent_r:
?S: This variable conditionally defines the HAS_ENDPROTOENT_R symbol,
?S: which indicates to the C program that the endprotoent_r()
?S: routine is available.
?S:.
?S:endprotoent_r_proto:
?S: This variable encodes the prototype of endprotoent_r.
?S: It is zero if d_endprotoent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endprotoent_r
?S: is defined.
?S:.
```

```
?C:HAS_ENDPROTOENT_R:
?C: This symbol, if defined, indicates that the endprotoent_r
 routine
?C: is available to endprotoent re-entrantly.
?C:.
?C:ENDPROTOENT_R_PROTO:
?C: This symbol encodes the prototype of endprotoent_r.
?C: It is zero if d_endprotoent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endprotoent_r
?C: is defined.
?C:.
?H:#$d_endprotoent_r HAS_ENDPROTOENT_R /**/
?H:#define ENDPROTOENT_R_PROTO $endprotoent_r_proto /**/
?H:.
?T:try hdrs d_endprotoent_r_proto
: see if endprotoent_r exists
set endprotoent_r d_endprotoent_r
eval $inlibc
case "$d_endprotoent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_endprotoent_r_proto:$usethreads" in
 ":define") d_endprotoent_r_proto=define
  set d_endprotoent_r_proto endprotoent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_endprotoent_r_proto" in
 define)
 case "$endprotoent_r_proto" in
 "|0) try='int endprotoent_r(struct protoent_data*);'
 ./protochk "$extern_C $try" $hdrs && endprotoent_r_proto=I_D ;;
 esac
 case "$endprotoent_r_proto"
 in
 "|0) try='void endprotoent_r(struct protoent_data*);'
 ./protochk "$extern_C $try" $hdrs && endprotoent_r_proto=V_D ;;
 esac
 case "$endprotoent_r_proto" in
 "|0) d_endprotoent_r=undef
  endprotoent_r_proto=0
  echo "Disabling endprotoent_r, cannot determine prototype." >&4 ;;
 * ) case "$endprotoent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) endprotoent_r_proto="REENTRANT_PROTO_$endprotoent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
```

```
 ;;
 *) case "$usethreads" in
  define) echo "endprotoent_r has no prototype, not using it." >&4 ;;
  esac
  d_endprotoent_r=undef
  endprotoent_r_proto=0
  ;;
 esac
 ;;
*) endprotoent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_endprotoent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strccmp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strccmp.U,v $
?RCS: Revision 3.0.1.2  1994/05/06  14:54:34  ram
?RCS: patch23: fixed a typo (WED)
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:04:39  ram
?RCS: patch10: created (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strccmp: Inlibc
?MAKE: -pick add $@ %<
?S:d_strccmp:
?S: This variable conditionally defines the HAS_STRCASECMP symbol, which
?S: indicates to the C program
 that the strcasecmp() routine is available
?S: for case-insensitive string compares.
?S:.
?C:HAS_STRCASECMP:
?C: This symbol, if defined, indicates that the strcasecmp() routine is
```

```
?C: available for case-insensitive string compares.
?C:.
?H:#$d_strccmp HAS_STRCASECMP /**/
?H:.
?LINT:set d_strccmp
: see if strcasecmp exists
set strcasecmp d_strccmp
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strccmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_portable.U,v 3.0.1.2 1995/01/11 15:28:52 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_portable.U,v $
?RCS: Revision 3.0.1.2  1995/01/11  15:28:52  ram
?RCS: patch45: executable path stripping moved to the end in Config_sh.U
?RCS:
?RCS: Revision 3.0.1.1  1993/12/15  08:21:17  ram
?RCS: patch15: did not strip variables properly when needed
?RCS: patch15: now also strips down variables from trylist
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
   This is the same as the dist version, except I don't bother
?X:   prompting people since it makes no difference for perl5,
?X:   and only confuses people.
?X:
?X: The Loc unit is wanted to get the definition of all the locating variables.
?X:
?MAKE:d_portable: Loc Oldconfig
?MAKE: -pick add $@ %<
?S:d_portable:
?S: This variable conditionally defines the PORTABLE symbol, which
?S: indicates to the C program that it should not assume that it is
```

```
?S: running on the machine it was compiled on.
?S:.
?C:PORTABLE:
?C: This symbol, if defined, indicates to the C program that it should
?C: not assume that it is running on the machine it was compiled on.
?C: The program should be prepared to look up the host name, translate
?C: generic filenames, use PATH, etc.
?C:.
?H:#$d_portable PORTABLE /**/
?H:.
?D:d_portable="
: decide how portable to be.  Allow command line overrides.
case "$d_portable" in
"$undef") ;;
*) d_portable="$define" ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_portable.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_sendmsg: Inlibc
?MAKE: -pick add $@ %<
?S:d_sendmsg:
?S: This variable conditionally defines the HAS_SENDMSG symbol, which
?S: indicates to the C program that the sendmsg() routine is available.
?S:.
?C:HAS_SENDMSG:
?C: This symbol, if defined, indicates that the sendmsg routine is
?C: available to send structured socket messages.
?C:.
?H:#$d_sendmsg HAS_SENDMSG  /**/
?H:.
?LINT:set d_sendmsg
: see if sendmsg exists
set sendmsg d_sendmsg
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/perl/d_sendmsg.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpwent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getpwent_r getpwent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_pwd extern_C
?MAKE: -pick add $@ %<
?S:d_getpwent_r:
?S: This variable conditionally defines the HAS_GETPWENT_R symbol,
?S: which indicates to the C program that the getpwent_r()
?S: routine is available.
?S:.
?S:getpwent_r_proto:
?S: This variable encodes the prototype of getpwent_r.
?S: It is zero if d_getpwent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getpwent_r
?S: is defined.
?S:.
?C:HAS_GETPWENT_R:
?C: This symbol, if defined, indicates that the getpwent_r routine
?C: is available to
 getpwent re-entrantly.
?C:.
?C:GETPWENT_R_PROTO:
?C: This symbol encodes the prototype of getpwent_r.
?C: It is zero if d_getpwent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getpwent_r
?C: is defined.
?C:.
?H:#$d_getpwent_r HAS_GETPWENT_R /**/
?H:#define GETPWENT_R_PROTO $getpwent_r_proto /**/
?H:.
?T:try hdrs d_getpwent_r_proto
: see if getpwent_r exists
set getpwent_r d_getpwent_r
eval $inlibc
case "$d_getpwent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_pwd pwd.h"
 case "$d_getpwent_r_proto:$usethreads" in
 ":define") d_getpwent_r_proto=define
```

```
 set d_getpwent_r_proto getpwent_r $hdrs
 eval $hasproto ;;
*) ;;
esac
case "$d_getpwent_r_proto" in
define)
case "$getpwent_r_proto" in
"|0) try='int getpwent_r(struct passwd*, char*, size_t, struct passwd**);'
./protochk "$extern_C $try" $hdrs && getpwent_r_proto=I_SBWR ;;
esac
case "$getpwent_r_proto" in
"|0) try='int getpwent_r(struct passwd*, char*, int, struct passwd**);'
./protochk
"$extern_C $try" $hdrs && getpwent_r_proto=I_SBIR ;;
esac
case "$getpwent_r_proto" in
"|0) try='struct passwd* getpwent_r(struct passwd*, char*, size_t);'
./protochk "$extern_C $try" $hdrs && getpwent_r_proto=S_SBW ;;
esac
case "$getpwent_r_proto" in
"|0) try='struct passwd* getpwent_r(struct passwd*, char*, int);'
./protochk "$extern_C $try" $hdrs && getpwent_r_proto=S_SBI ;;
esac
case "$getpwent_r_proto" in
"|0) try='int getpwent_r(struct passwd*, char*, int);'
./protochk "$extern_C $try" $hdrs && getpwent_r_proto=I_SBI ;;
esac
case "$getpwent_r_proto" in
"|0) try='int getpwent_r(struct passwd*, char*, int, FILE**);'
./protochk "$extern_C $try" $hdrs && getpwent_r_proto=I_SBIH ;;
esac
case "$getpwent_r_proto" in
"|0) d_getpwent_r=undef
 getpwent_r_proto=0
 echo "Disabling getpwent_r, cannot determine prototype." >&4 ;;
* ) case "$getpwent_r_proto" in
 REENTRANT_PROTO*) ;;
 *) getpwent_r_proto="REENTRANT_PROTO_$getpwent_r_proto" ;;
 esac
 echo
"Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "getpwent_r has no prototype, not using it." >&4 ;;
 esac
 d_getpwent_r=undef
 getpwent_r_proto=0
```

```
  ;;
 esac
 ;;
*) getpwent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getpwent_r.U
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```
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_mkostemp: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkostemp:
?S: This variable conditionally defines HAS_MKOSTEMP if mkostemp() is
?S: available to exclusively create and open a uniquely named (with a
?S: suffix) temporary file.
?S:.
?C:HAS_MKOSTEMP:
?C: This symbol, if defined, indicates that the mkostemp routine is
?C: available to exclusively create and open a uniquely named (with a
?C: suffix) temporary file.
?C:.
?H:#$d_mkostemp HAS_MKOSTEMP /**/
?H:.
?LINT:set d_mkostemp
: see if mkostemp exists
set mkostemp d_mkostemp
eval $inlibc
```

Found
 in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_mkostemp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_rusage.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_rusage.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X: We may need to include <sys/resource.h> and <sys/time.h> FIXME
?X:INC: i_sysresrc i_systime
?MAKE:d_rusage: Inlibc
?MAKE: -pick add $@ %<
?S:d_rusage (d_getrusg):
?S: This variable conditionally defines the HAS_GETRUSAGE symbol, which
?S: indicates that the getrusage() routine exists.  The getrusage() routine
?S: supports sub-second accuracy
 for process cpu accounting. You may need
?S: to include <sys/resource.h> and <sys/time.h>.
?S:.
?C:HAS_GETRUSAGE (RUSAGE GETRUSAGE):
?C: This symbol, if defined, indicates that the getrusage() routine is
?C: available to get process statistics with a sub-second accuracy.
?C: Inclusion of <sys/resource.h> and <sys/time.h> may be necessary.
?C:.
?H:#$d_rusage HAS_GETRUSAGE  /**/
?H:.
?LINT:set d_rusage
: see if getrusage exists
set getrusage d_rusage
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_rusage.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ctermid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: d_ctermid.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_ctermid: Inlibc
?MAKE: -pick add $@ %<
?S:d_ctermid:
?S: This variable conditionally defines CTERMID if ctermid() is
?S: available to generate filename for terminal.
?S:.
?C:HAS_CTERMID (CTERMID):
?C: This symbol, if defined, indicates that the ctermid routine is
?C: available to generate filename for terminal.
?C:.
?H:#$d_ctermid
 HAS_CTERMID  /**/
?H:.
?LINT:set d_ctermid
: see if ctermid exists
set ctermid d_ctermid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_ctermid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethname.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_gethname.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:13:00  ram
?RCS: patch36: call ./xenix explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:11  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_gethname d_uname d_phostname aphostname: phostname cat \
 myhostname package d_portable Loc echo n c +i_whoami +usrinc \
 Myread Guess Oldconfig Csym
```

```
?MAKE: -pick add $@ %<
?S:d_gethname:
?S: This variable conditionally
 defines the HAS_GETHOSTNAME symbol, which
?S: indicates to the C program that the gethostname() routine may be
?S: used to derive the host name.
?S:.
?S:d_uname:
?S: This variable conditionally defines the HAS_UNAME symbol, which
?S: indicates to the C program that the uname() routine may be
?S: used to derive the host name.
?S:.
?S:d_phostname:
?S: This variable conditionally defines the HAS_PHOSTNAME symbol, which
?S: contains the shell command which, when fed to popen(), may be
?S: used to derive the host name.
?S:.
?S:aphostname:
?S: This variable contains the command which can be used to compute the
?S: host name. The command is fully qualified by its absolute path, to make
?S: it safe when used by a process with super-user privileges.
?S:.
?C:HAS_GETHOSTNAME (GETHOSTNAME):
?C: This symbol, if defined, indicates that the C program may use the
?C: gethostname() routine to derive the host name.  See also HAS_UNAME
?C: and PHOSTNAME.
?C:.
?C:HAS_UNAME (UNAME):
?C: This symbol,
 if defined, indicates that the C program may use the
?C: uname() routine to derive the host name.  See also HAS_GETHOSTNAME
?C: and PHOSTNAME.
?C:.
?C:PHOSTNAME:
?C: This symbol, if defined, indicates the command to feed to the
?C: popen() routine to derive the host name.  See also HAS_GETHOSTNAME
?C: and HAS_UNAME. Note that the command uses a fully qualified path,
?C: so that it is safe even if used by a process with super-user
?C: privileges.
?C:.
?C:HAS_PHOSTNAME:
?C: This symbol, if defined, indicates that the C program may use the
?C: contents of PHOSTNAME as a command to feed to the popen() routine
?C: to derive the host name.
?C:.
?H:?%<:#$d_gethname HAS_GETHOSTNAME /**/
?H:?%<:#$d_uname HAS_UNAME  /**/
?H:?%<:#$d_phostname HAS_PHOSTNAME /**/
```

```
?H:?%<:#ifdef HAS_PHOSTNAME
?H:?%<:#define PHOSTNAME "$aphostname" /* How to get the host name */
?H:?%<:#endif
?H:.
?T:file val call
?LINT:change i_whoami
: see how we will look up host name
echo " "
call=''
@if HAS_GETHOSTNAME
if
 set gethostname val -f d_gethname; eval $csym; $val; then
 echo 'gethostname() found.' >&4
 d_gethname="$define"
 call=gethostname
fi
@end
@if HAS_UNAME
if set uname val -f d_uname; eval $csym; $val; then
 if ./xenix; then
  $cat <<'EOM'
uname() was found, but you're running xenix, and older versions of xenix
have a broken uname(). If you don't really know whether your xenix is old
enough to have a broken system call, use the default answer.

EOM
  dflt=y
  case "$d_uname" in
  "$define") dflt=n;;
  esac
  rp='Is your uname() broken?'
  . ./myread
  case "$ans" in
  n*) d_uname="$define"; call=uname;;
  esac
 else
  echo 'uname() found.' >&4
  d_uname="$define"
  case "$call" in
  '') call=uname ;;
  esac
 fi
fi
@end
case "$d_gethname" in
'') d_gethname="$undef";;
esac
case "$d_uname" in
```

```
") d_uname="$undef";;
esac
@if PHOSTNAME || MYHOSTNAME
case "$d_uname$d_gethname" in
*define*)
 dflt=n
 cat <<EOM

Every now and then someone has a $call() that lies about the hostname
but can't be fixed
 for political or economic reasons.  If you wish, I can
@if MYHOSTNAME && PHOSTNAME
pretend $call() isn't there and maybe compile in the hostname or
compute it from the '$phostname' command at run-time.
@elsif MYHOSTNAME
pretend $call() isn't there and maybe compile in the hostname.
@elsif PHOSTNAME
pretend $call() isn't there and maybe compute hostname at run-time
thanks to the '$phostname' command.
@elsif WHOAMI
get the hostname from whomai.h (provided you have one).
@else
simply ignore your host name and use someting like "noname" instead.
@end

EOM
 rp="Shall I ignore $call() from now on?"
 . ./myread
 case "$ans" in
 y*) d_uname="$undef" d_gethname="$undef"; $echo $n "Okay...$c";;
 esac;;
esac
@end
@if PHOSTNAME || aphostname
?X: Compute the full path name for the command
case "$phostname" in
") aphostname=";;
*) case "$aphostname" in
 /*) ;;
 *) set X $phostname
  shift
  file=$1
  shift
  file=`./loc $file $file $pth`
  aphostname=`echo $file $*`
  ;;
 esac
 ;;
```

```
esac
@end
@if
 PHOSTNAME && MYHOSTNAME
case "$d_uname$d_gethname" in
*define*) ;;
*)
 case "$phostname" in
 ") ;;
 *)
  $cat <<EOT

There is no gethostname() or uname() on this system.  You have two
possibilities at this point:

1)  You can have your host name ($myhostname) compiled into $package, which
   lets $package start up faster, but makes your binaries non-portable, or
2)  you can have $package use a

 popen("$aphostname","r")

   which will start slower but be more portable.

@ if WHOAMI
Option 1 will give you the option of using whoami.h if you have one.
@ end
If you want option 2 but with a different command, you can edit config.sh at
the end of this shell script.

EOT
  case "$d_phostname" in
  "$define") dflt=n;;
  "$undef")  dflt=y;;
  ")
   case "$d_portable" in
   "$define") dflt=n ;;
   *) dflt=y ;;
   esac;;
  esac
  rp="Do you want your host name compiled in?"
  . ./myread
  case "$ans" in
  n*) d_phostname="$define" ;;
  *) aphostname="; d_phostname="$undef";;
  esac;;
 esac
 case
```

```
 "$aphostname" in
 ")
@ if WHOAMI
  case "$i_whoami" in
  "$define")
   dflt=y
   $cat <<EOM

No hostname function--you can either use the whoami.h file, which has this line:

 `grep sysname $usrinc/whoami.h`

or you can have the name we came up with earlier ($myhostname) hardwired in.
EOM
   rp="Use whoami.h to get hostname?"
   . ./myread
   case "$ans" in
   n*) i_whoami="$undef";;
   esac
   ;;
  "$undef")
   $cat <<EOM
No hostname function and no whoami.h -- hardwiring "$myhostname".
EOM
   ;;
  esac;;
@ else
  echo 'No hostname function -- hardwiring "'$myhostname'".' >&4;;
@ end
 esac;;
esac
@elsif PHOSTNAME
case "$d_uname$d_gethname" in
*define*) ;;
*)
 case "$phostname" in
 ")
@ if WHOAMI
  case "$i_whoami" in
  "$define")
   $cat <<EOM

No hostname function--we'll use the whoami.h file, which has this line:

 `grep sysname $usrinc/whoami.h`

EOM
   ;;
```

```
  *) echo "There will be no way for $package to get your hostname." >&4;;
  esac;;
@ else
  echo "There will be no way
 for $package to get your hostname." >&4;;
@ end
 *)
 echo "I'll use 'popen("""$aphostname"", "r")"" to get your hostname." >&4
  ;;
 esac;;
esac
@elsif MYHOSTNAME
case "$d_uname$d_gethname" in
*define*) ;;
*)
@ if WHOAMI
 case "$i_whoami" in
 "$define")
  dflt=y
  $cat <<EOM

No hostname function--you can either use the whoami.h file, which has this line:

 `grep sysname $usrinc/whoami.h`

or you can have the name we came up with earlier ($myhostname) hardwired in.
EOM
  rp="Use whoami.h to get hostname?"
  . ./myread
  case "$ans" in
  n*) i_whoami="$undef";;
  esac
  ;;
 "$undef")
  echo 'No whoami.h--hardwiring "'$myhostname'".' >&4;;
 esac;;
@ else
 echo 'Hardwiring "'$myhostname'".' >&4;;
@ end
esac
@end
case "$d_phostname" in
") d_phostname="$undef";;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_gethname.U

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```
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?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_mkdtemp: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkdtemp:
?S: This variable conditionally defines the HAS_MKDTEMP symbol, which
?S: indicates to the C program that the mkdtemp() routine is available
?S: to exclusively create a uniquely named temporary directory.
?S:.
?C:HAS_MKDTEMP :
?C: This symbol, if defined, indicates that the mkdtemp routine is
?C: available to exclusively create a uniquely named temporary directory.
?C:.
?H:#$d_mkdtemp HAS_MKDTEMP  /**/
?H:.
?LINT:set d_mkdtemp
: see if mkdtemp exists
set mkdtemp d_mkdtemp
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_mkdtemp.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:usefaststdio: Myread Oldconfig Setvar rsrc
?MAKE: -pick add $@ %<
?Y:TOP
?S:usefaststdio:
?S: This variable conditionally defines the USE_FAST_STDIO symbol,
?S: and indicates that Perl should be built to use 'fast stdio'.
?S: Defaults to define in Perls 5.8 and earlier, to undef later.
?S:.
?C:USE_FAST_STDIO:
```

```
?C: This symbol, if defined, indicates that Perl should
?C: be built to use 'fast stdio'.
?C: Defaults to define in Perls 5.8 and earlier, to undef later.
?C:.
?H:?%<:#ifndef USE_FAST_STDIO
?H:?%<:#$usefaststdio USE_FAST_STDIO  /**/
?H:?%<:#endif
?H:.
?T:xversion
?LINT:set usefaststdio
: Check if faststdio is requested and available
case "$usefaststdio" in
$define|true|[yY]*|")
 xversion=`awk
 '/define[  ]+PERL_VERSION/ {print $3}' $rsrc/patchlevel.h`
 case "$xversion" in
 [68]) dflt='y' ;;
 *) dflt='n' ;;
 esac
 ;;
*) dflt='n';;
esac
cat <<EOM

Perl can be built to use 'fast stdio', which means using the stdio
library but also directly manipulating the stdio buffers to enable
faster I/O.  Using stdio is better for backward compatibility (especially
for Perl extensions), but on the other hand since Perl 5.8 the 'perlio'
interface has been preferred instead of stdio.

If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp='Use the "fast stdio" if available?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*)      val="$undef" ;;
esac
set usefaststdio
eval $setvar

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
5.36.0/U/perl/usefaststdio.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id$
?RCS:
```

```
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_mkstemps: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkstemps:
?S: This variable conditionally defines the HAS_MKSTEMPS symbol, which
?S: indicates to the C program that the mkstemps() routine is available
?S: to exclusively create and open a uniquely named (with a suffix)
?S: temporary file.
?S:.
?C:HAS_MKSTEMPS :
?C: This symbol, if defined, indicates that the mkstemps routine is
?C: available to exclusively create and open a uniquely named
?C: (with a suffix) temporary file.
?C:.
?H:#$d_mkstemps HAS_MKSTEMPS  /**/
?H:.
?LINT:set d_mkstemps
: see if mkstemps exists
set mkstemps d_mkstemps
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_mkstemps.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_math.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_math.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:21:59  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:i_math: Inhdr
?MAKE: -pick add $@ %<
```

```
?X: Are there really systems that *DON'T* have math.h?
?S:i_math:
?S: This variable conditionally defines the I_MATH symbol, and indicates
?S: whether a C program may include <math.h>.
?S:.
?C:I_MATH:
?C: This symbol, if defined, indicates
 to the C program that it should
?C: include <math.h>.
?C:.
?H:#$i_math I_MATH  /**/
?H:.
?LINT:set i_math
: see if this is a math.h system
set math.h i_math
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_math.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sbrksmart.U,v $
?RCS: Revision 3.0.1.2  1995/01/11  15:35:41  ram
?RCS: patch45: now sets sbrksmart to undef explicitly when lacking sbrk()
?RCS: patch45: forgot a cast when using return value from sbrk()
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:16:45  ram
?RCS: patch16: created
?RCS:
?MAKE:sbrksmart: cat d_sbrk +cc +ccflags +libs rm
?MAKE: -pick add $@ %<
?S:sbrksmart:
?S: This variable conditionally defines HAS_SMART_SBRK if the sbrk()
?S: routine honors a negative argument to lower the break
 value.
?S:.
?C:HAS_SMART_SBRK:
```

```
?C: This symbol is defined when the sbrk() system call may be used with
?C: a negative argument to lower the break value, therefore releasing
?C: core to the system. If not, you'd probably be better off using the
?C: mmap() system call.
?C:.
?H:#$sbrksmart HAS_SMART_SBRK /**/
?H:.
?T:dumb
?F:!sbrk
: see whether sbrk can release core to the kernel
echo " "
case "$d_sbrk" in
"$define")
 echo "Let's see if your sbrk() is smart enough to release core..." >&4
 $cat > sbrk.c <<EOC
#define INC 256  /* Small enough to be less than a page size */

int main()
{
 char *obrk = (char *) sbrk(0);
 char *nbrk;

 nbrk = (char *) sbrk(INC);
 if (nbrk == (char *) -1)
  exit(1); /* Not enough memory */
 if (nbrk != obrk)
  exit(2); /* Unreliable sbrk() */
 nbrk = (char *) sbrk(-INC);
 if (nbrk == (char *) -1)
  exit(3); /* May have understood negative arg as huge positive */
 if (obrk != (char *) sbrk(0))
  exit(4); /* Not smart, definitely */

 exit(0);  /* Ok */
}
EOC
 sbrksmart="$undef"
 dumb='--
 assuming dumb sbrk().'
 if $cc $ccflags -o sbrk sbrk.c $libs >/dev/null 2>&1; then
  ./sbrk >/dev/null 2>&1
  case $? in
  0) sbrksmart="$define"
   echo "Yes, it can be used with negative values." ;;
  1) echo "Sorry, not enough memory $dumb" ;;
  2) echo "No it's not, and besides it seems to be buggy..." ;;
  3) echo "No, it fails with negative values." ;;
  4) echo "Nope, your sbrk() is too dumb." ;;
```

```
  *) echo "Err... Unexpected result $dumb" ;;
  esac
 else
  echo "(Could not compile test program $dumb)"
 fi
 ;;
*)
 echo "Since you don't have sbrk(), let's forget about the smart test!"
 sbrksmart="$undef"
 ;;
esac
$rm -f sbrk sbrk.* core
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/sbrksmart.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:usedefaultstrict: Setvar Myread
?MAKE: -pick add $@ %<
?LINT:set usedefaultstrict
?S:usedefaultstrict:
?S: This setting provides a mechanism for perl developers to enable
?S: strict by default. These defaults do not apply when perl is run
?S: via -e or -E.
?S:.
?C:USE_STRICT_BY_DEFAULT:
?C: This symbol, if defined, enables additional defaults.
?C: At this time it only enables implicit strict by default.
?C:.
?H:#$usedefaultstrict USE_STRICT_BY_DEFAULT /* use strict by default */
?H:.
: Ask about strict by default.
case "$usedefaultstrict" in
   $define|true|[Yy]*)
      dflt="y"
      ;;
   *)
      dflt="n"
      ;;
   esac

cat <<EOM

EXPERIMENTAL: Perl can now be built with strict on by default when not
```

```
invoked with -e or -E. This is a diagnostic tool
 for development.

Unless you are familiar with this feature, you should probably answer 'no'.

EOM

rp='Would you like to build perl with strict enabled by default?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*)   val="$undef"  ;;
esac
set usedefaultstrict
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/usedefaultstrict.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Init.U,v 3.0.1.1 1994/10/31 09:45:59 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Init.U,v $
?RCS: Revision 3.0.1.1  1994/10/31  09:45:59  ram
?RCS: patch44: removed Options from MAKE to prevent Init overrides
?RCS: patch44: option processing now done after Myinit thanks to new Begin.U
?RCS: patch44: moved "Beginning of configuration questions" to Begin.U
?RCS: patch44: moved signal trapping instruction to Begin.U as well
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file
 initializes certain default variables used by Configure.  They
?X: may be overridden or added to by definitions in Myinit.U.
?X:
?MAKE:Init eunicefix: Null
?MAKE: -pick add $@ %<
```

```
?MAKE: -pick weed $@ ./Init
?S:eunicefix:
?S: When running under Eunice this variable contains a command which will
?S: convert a shell script to the proper form of text file for it to be
?S: executable by the shell.  On other systems it is a no-op.
?S:.
?V:define undef smallmach:rmlist
?X:
?X: Throughout the units, one may make use of $define and $undef to reference
?X: a defined symbol or an undefined one. There is no need to add them in
?X: the dependency line since this unit makes them visible via ?V:, and
?X: everyone inherits from those symbols since by convention Init.U is the
?X: root dependency.
?X:
?LINT:extern DJGPP
?LINT:extern _exe
?LINT:change _exe
?LINT:extern is_os2
: Detect odd OSs
define='define'
undef='undef'
smallmach='pdp11 i8086 z8000 i80286 iAPX286'
rmlist=''

: We must find out about
 Eunice early
eunicefix=':'
if test -f /etc/unixtovms; then
 eunicefix=/etc/unixtovms
fi
if test -f /etc/unixtovms.exe; then
 eunicefix=/etc/unixtovms.exe
fi

: Set executable suffix now -- needed before hints available
if test -f "/libs/version.library"; then
: Amiga OS
   _exe=""
elif test -f "/system/gnu_library/bin/ar.pm"; then
: Stratus VOS
   _exe=".pm"
elif test -n "$DJGPP"; then
: DOS DJGPP
   _exe=".exe"
elif test -f /kern/cookiejar; then
: MiNT
   _exe=""
elif test -d c:/. -o -n "$is_os2" ; then
```

```
: OS/2 or cygwin
   _exe=".exe"
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Init.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getservbyname_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getservbyname_r getservbyname_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getservbyname_r:
?S: This variable conditionally defines the HAS_GETSERVBYNAME_R symbol,
?S: which indicates to the C program that the getservbyname_r()
?S: routine is available.
?S:.
?S:getservbyname_r_proto:
?S: This variable encodes the prototype of getservbyname_r.
?S: It is zero if d_getservbyname_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getservbyname_r
?S: is defined.
?S:.
?C:HAS_GETSERVBYNAME_R:
?C: This symbol, if defined, indicates
 that the getservbyname_r routine
?C: is available to getservbyname re-entrantly.
?C:.
?C:GETSERVBYNAME_R_PROTO:
?C: This symbol encodes the prototype of getservbyname_r.
?C: It is zero if d_getservbyname_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getservbyname_r
?C: is defined.
?C:.
?H:#$d_getservbyname_r HAS_GETSERVBYNAME_R /**/
?H:#define GETSERVBYNAME_R_PROTO $getservbyname_r_proto /**/
?H:.
?T:try hdrs d_getservbyname_r_proto
: see if getservbyname_r exists
set getservbyname_r d_getservbyname_r
```

```
eval $inlibc
case "$d_getservbyname_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getservbyname_r_proto:$usethreads" in
 ":define") d_getservbyname_r_proto=define
  set d_getservbyname_r_proto getservbyname_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getservbyname_r_proto" in
 define)
 case "$getservbyname_r_proto" in
 "|0) try='int getservbyname_r(const char*, const char*, struct servent*, char*,
 size_t, struct servent**);'
 ./protochk "$extern_C $try" $hdrs && getservbyname_r_proto=I_CCSBWR ;;
 esac
 case "$getservbyname_r_proto" in
 "|0) try='struct servent* getservbyname_r(const char*, const char*, struct servent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getservbyname_r_proto=S_CCSBI ;;
 esac
 case "$getservbyname_r_proto" in
 "|0) try='int getservbyname_r(const char*, const char*, struct servent*, struct servent_data*);'
 ./protochk "$extern_C $try" $hdrs && getservbyname_r_proto=I_CCSD ;;
 esac
 case "$getservbyname_r_proto" in
 "|0) d_getservbyname_r=undef
  getservbyname_r_proto=0
  echo "Disabling getservbyname_r, cannot determine prototype." >&4 ;;
 * ) case "$getservbyname_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getservbyname_r_proto="REENTRANT_PROTO_$getservbyname_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getservbyname_r has no prototype, not using it." >&4 ;;
  esac
  d_getservbyname_r=undef
  getservbyname_r_proto=0
  ;;
 esac
 ;;
*) getservbyname_r_proto=0
 ;;
esac
```

Found
 in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getservbyname_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_msem_lck.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msem_lck.U,v $
?MAKE:d_msem_lck: Inlibc
?MAKE: -pick add $@ %<
?S:d_msem_lck:
?S: This variable conditionally defines HAS_MSEM_LOCK if msem_lock() is
?S: available, thereby indicating kernel support for memory semaphores.
?S:.
?C:HAS_MSEM_LOCK:
?C: This symbol, if defined, indicates that memory semaphores are
?C: available to protect mmap()'ed regions.
?C:.
?H:#$d_msem_lck HAS_MSEM_LOCK  /**/
?H:.
?LINT:set d_msem_lck
: see if msem_lock exists
set
 msem_lock d_msem_lck
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_msem_lck.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_dirent.U,v 3.0.1.4 1994/10/29 16:20:01 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: i_dirent.U,v $
?RCS: Revision 3.0.1.4  1994/10/29  16:20:01  ram
?RCS: patch36: failed scanning for 'd_namlen' with missing <dirent.h> (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:01:25  ram
?RCS: patch30: added direntrytype for hints, merely for NeXT (ADO)
?RCS: patch30: now checks for both struct dirent and direct (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:22:37  ram
?RCS: patch27: new variable direntrytype for proper type setting (ADO)
?RCS:
?RCS:
 Revision 3.0.1.1  1994/01/24  14:11:15  ram
?RCS: patch16: added new Direntry_t pseudo-type for directory entries
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit looks whether there is a dirent system or not
?X:
?MAKE:i_dirent d_dirnamlen direntrytype: test contains Setvar \
 Myread Findhdr cppstdin cppflags cppminus rm_try
?MAKE: -pick add $@ %<
?S:i_dirent:
?S: This variable conditionally defines I_DIRENT, which indicates
?S: to the C program that it should include <dirent.h>.
?S:.
?S:d_dirnamlen:
?S: This variable conditionally defines DIRNAMLEN, which indicates
?S: to the C program that the length of directory entry names is
?S: provided by a d_namelen field.
?S:.
?S:direntrytype:
?S: This symbol is set to 'struct direct' or 'struct dirent' depending on
?S: whether dirent is available or not. You should use this pseudo type to
?S: portably declare your directory entries.
?S:.
?C:I_DIRENT:
?C: This symbol,
 if defined, indicates to the C program that it should
?C: include <dirent.h>. Using this symbol also triggers the definition
?C: of the Direntry_t define which ends up being 'struct dirent' or
?C: 'struct direct' depending on the availability of <dirent.h>.
?C:.
?C:DIRNAMLEN:
```

```
?C: This symbol, if defined, indicates to the C program that the length
?C: of directory entry names is provided by a d_namlen field.  Otherwise
?C: you need to do strlen() on the d_name field.
?C:.
?C:Direntry_t:
?C: This symbol is set to 'struct direct' or 'struct dirent' depending on
?C: whether dirent is available or not. You should use this pseudo type to
?C: portably declare your directory entries.
?C:.
?H:#$i_dirent I_DIRENT  /**/
?H:#$d_dirnamlen DIRNAMLEN /**/
?H:?%<:@if I_DIRENT && Direntry_t
?H:?%<:#define Direntry_t $direntrytype
?H:?%<:@end
?H:.
?T:xinc guess1 guess2
?LINT:set i_dirent d_dirnamlen
: see if this is a dirent system
echo " "
if xinc=`./findhdr dirent.h`; $test "$xinc"; then
 val="$define"
 echo
 "<dirent.h> found." >&4
else
 val="$undef"
 if xinc=`./findhdr sys/dir.h`; $test "$xinc"; then
  echo "<sys/dir.h> found." >&4
  echo " "
 else
  xinc=`./findhdr sys/ndir.h`
 fi
 echo "<dirent.h> NOT found." >&4
fi
set i_dirent
eval $setvar

?X: Use struct dirent or struct direct?   If we're using dirent.h,
?X: it's probably struct dirent, but apparently not always.
?X: Assume $xinc still contains the name of the header file we're using.
@if direntrytype || Direntry_t
: Look for type of directory structure.
echo " "
$cppstdin $cppflags $cppminus < "$xinc" > try.c

case "$direntrytype" in
"|' ')
 case "$i_dirent" in
 $define) guess1='struct dirent' ;;
```

```
 *) guess1='struct direct'  ;;
 esac
 ;;
*) guess1="$direntrytype"
 ;;
esac

case "$guess1" in
'struct dirent') guess2='struct direct' ;;
*) guess2='struct dirent' ;;
esac

if $contains "$guess1" try.c >/dev/null 2>&1; then
 direntrytype="$guess1"
 echo "Your directory entries are $direntrytype." >&4
elif $contains "$guess2"
 try.c >/dev/null 2>&1; then
 direntrytype="$guess2"
 echo "Your directory entries seem to be $direntrytype." >&4
else
 echo "I don't recognize your system's directory entries." >&4
 rp="What type is used for directory entries on this system?"
 dflt="$guess1"
 . ./myread
 direntrytype="$ans"
fi
$rm_try

@end
@if d_dirnamlen || DIRNAMLEN
: see if the directory entry stores field length
echo " "
$cppstdin $cppflags $cppminus < "$xinc" > try.c
if $contains 'd_namlen' try.c >/dev/null 2>&1; then
 echo "Good, your directory entry keeps length information in d_namlen." >&4
 val="$define"
else
 echo "Your directory entry does not know about the d_namlen field." >&4
 val="$undef"
fi
set d_dirnamlen
eval $setvar
$rm_try

@end
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/modified/i_dirent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: installstyle.U,v 1.2 1999/07/13 14:56:06 doughera Exp $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: installstyle.U,v $
?RCS: Revision 1.2  1999/07/13 14:56:06  doughera
?RCS: Fix dependencies.  Add more comments.
?RCS:
?RCS: Revision 1.1  1999/07/12 17:30:41  doughera
?RCS: Initial revision
?RCS:
?RCS:
?MAKE:installstyle: prefix Myread
?MAKE: -pick add $@ %<
?X: Myread dependence is for dflt.
?S:installstyle:
?S: This variable describes the "style" of the perl installation.
?S: This is intended to be useful for tools that need to
?S: manipulate entire perl
 distributions.  Perl itself doesn't use
?S: this to find its libraries -- the library directories are
?S: stored directly in Config.pm.  Currently, there are only two
?S: styles:  "lib" and "lib/perl5".  The default library locations
?S: (e.g. privlib, sitelib) are either $prefix/lib or
?S: $prefix/lib/perl5.  The former is useful if $prefix is a
?S: directory dedicated to perl (e.g. /opt/perl), while the latter
?S: is useful if $prefix is shared by many packages, e.g. if
?S: $prefix=/usr/local.
?S:
?S: Unfortunately, while this "style" variable is used to set
?S: defaults for all three directory hierarchies (core, vendor, and
?S: site), there is no guarantee that the same style is actually
?S: appropriate for all those directories.  For example, $prefix
?S: might be /opt/perl, but $siteprefix might be /usr/local.
?S: (Perhaps, in retrospect, the "lib" style should never have been
?S: supported, but it did seem like a nice idea at the time.)
?S:
?S: The situation is even less clear for
```

```
 tools such as MakeMaker
?S: that can be used to install additional modules into
?S: non-standard places.  For example, if a user intends to install
?S: a module into a private directory (perhaps by setting PREFIX on
?S: the Makefile.PL command line), then there is no reason to
?S: assume that the Configure-time $installstyle setting will be
?S: relevant for that PREFIX.
?S:
?S: This may later be extended to include other information, so
?S: be careful with pattern-matching on the results.
?S:
?S: For compatibility with perl5.005 and earlier, the default
?S: setting is based on whether or not $prefix contains the string
?S: "perl".
?S:.
: determine installation style
: For now, try to deduce it from prefix unless it is already set.
: Reproduce behavior of 5.005 and earlier, maybe drop that in 5.7.
case "$installstyle" in
") case "$prefix" in
  *perl*) dflt='lib';;
  *) dflt='lib/perl5' ;;
 esac
 ;;
*) dflt="$installstyle" ;;
esac
: Probably not worth prompting for this since we prompt
 for all
: the directories individually, and the prompt would be too long and
: confusing anyway.
installstyle=$dflt
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/installstyle.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2008 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_timegm: Inlibc
?MAKE: -pick add $@ %<
?S:d_timegm:
?S: This variable conditionally defines the HAS_TIMEGM symbol, which
```

```
?S: indicates to the C program that the timegm () routine is available.
?S:.
?C:HAS_TIMEGM:
?C: This symbol, if defined, indicates that the timegm routine is
?C: available to do the opposite of gmtime ()
?C:.
?H:#$d_timegm HAS_TIMEGM  /**/
?H:.
?LINT:set d_timegm
: see if timegm exists
set timegm d_timegm
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_timegm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_lgamma: Inlibc
?MAKE: -pick add $@ %<
?S:d_lgamma:
?S: This variable conditionally defines the HAS_LGAMMA symbol, which
?S: indicates to the C program that the lgamma() routine is available
?S: for the log gamma function.  See also d_tgamma and d_lgamma_r.
?S:.
?C:HAS_LGAMMA:
?C: This symbol, if defined, indicates that the lgamma routine is
?C: available to do the log gamma function.  See also HAS_TGAMMA and
?C: HAS_LGAMMA_R.
?C:.
?H:#$d_lgamma HAS_LGAMMA  /**/
?H:.
?LINT:set d_lgamma
: see if lgamma exists
set lgamma d_lgamma
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_lgamma.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_systimeb.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_systimeb.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:37  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit looks wether <sys/timeb.h> should be included
?X: or not when using ftime() (for struct timeb definition).
?X:
?X: Force looking for <sys/time.h> for struct timeb.
?X:INC: i_systime
?MAKE:i_systimeb: test contains Loc Setvar Findhdr
?MAKE: -pick add $@ %<
?S:i_systimeb:
?S: This variable conditionally defines I_SYS_TIMEB,
 which indicates
?S: to the C program that it should include <sys/timeb.h>.
?S:.
?C:I_SYS_TIMEB (I_SYSTIMEB):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/timeb.h>, in order to define struct timeb (some systems
?C: define this in <sys/time.h>). This is useful when using ftime().
?C: You should include <sys/time.h> if I_SYS_TIMEB is not defined,
?C: nor is I_SYS_TIME.
?C:.
?H:#$i_systimeb I_SYS_TIMEB  /**/
?H:.
?T:xxx
?LINT:set i_systimeb
: see where struct timeb is defined
echo " "
xxx=`./findhdr sys/timeb.h`
if $test "$xxx"; then
 if $contains 'struct timeb' $xxx >/dev/null 2>&1; then
  val="$define"
  echo "You have struct timeb defined in <sys/timeb.h>." >&4
 else
  val="$undef"
  echo "Assuming struct timeb is defined in <sys/time.h>." >&4
 fi
else
 val="$undef"
```

```
echo "No <sys/timeb.h> -- Assuming struct timeb is defined in <sys/time.h>." >&4
fi
set i_systimeb
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_systimeb.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getprotobynumber_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getprotobynumber_r getprotobynumber_r_proto: Inlibc Protochk \
 Hasproto i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getprotobynumber_r:
?S: This variable conditionally defines the HAS_GETPROTOBYNUMBER_R symbol,
?S: which indicates to the C program that the getprotobynumber_r()
?S: routine is available.
?S:.
?S:getprotobynumber_r_proto:
?S: This variable encodes the prototype of getprotobynumber_r.
?S: It is zero if d_getprotobynumber_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getprotobynumber_r
?S: is defined.
?S:.
?C:HAS_GETPROTOBYNUMBER_R:
?C: This
 symbol, if defined, indicates that the getprotobynumber_r routine
?C: is available to getprotobynumber re-entrantly.
?C:.
?C:GETPROTOBYNUMBER_R_PROTO:
?C: This symbol encodes the prototype of getprotobynumber_r.
?C: It is zero if d_getprotobynumber_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getprotobynumber_r
?C: is defined.
?C:.
?H:#$d_getprotobynumber_r HAS_GETPROTOBYNUMBER_R /**/
?H:#define GETPROTOBYNUMBER_R_PROTO $getprotobynumber_r_proto /**/
?H:.
?T:try hdrs d_getprotobynumber_r_proto
: see if getprotobynumber_r exists
```

```
set getprotobynumber_r d_getprotobynumber_r
eval $inlibc
case "$d_getprotobynumber_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getprotobynumber_r_proto:$usethreads" in
 ":define") d_getprotobynumber_r_proto=define
  set d_getprotobynumber_r_proto getprotobynumber_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getprotobynumber_r_proto" in
 define)
 case "$getprotobynumber_r_proto"
 in
 "|0) try='int getprotobynumber_r(int, struct protoent*, char*, size_t, struct protoent**);'
 ./protochk "$extern_C $try" $hdrs && getprotobynumber_r_proto=I_ISBWR ;;
 esac
 case "$getprotobynumber_r_proto" in
 "|0) try='struct protoent* getprotobynumber_r(int, struct protoent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getprotobynumber_r_proto=S_ISBI ;;
 esac
 case "$getprotobynumber_r_proto" in
 "|0) try='int getprotobynumber_r(int, struct protoent*, struct protoent_data*);'
 ./protochk "$extern_C $try" $hdrs && getprotobynumber_r_proto=I_ISD ;;
 esac
 case "$getprotobynumber_r_proto" in
 "|0) d_getprotobynumber_r=undef
  getprotobynumber_r_proto=0
  echo "Disabling getprotobynumber_r, cannot determine prototype." >&4 ;;
 * ) case "$getprotobynumber_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getprotobynumber_r_proto="REENTRANT_PROTO_$getprotobynumber_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getprotobynumber_r
 has no prototype, not using it." >&4 ;;
  esac
  d_getprotobynumber_r=undef
  getprotobynumber_r_proto=0
  ;;
 esac
 ;;
*) getprotobynumber_r_proto=0
 ;;
```

```
esac

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getprotobynumber_r.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: package.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: package.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:27:21  ram
?RCS: patch36: beware of non-ascii character sets when translating case
?RCS:
?RCS: Revision 3.0.1.2  1993/11/10  17:37:02  ram
?RCS: patch14: skip definition of spackage if not otherwise used
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:11:10  ram
?RCS: patch10: added spackage, suitable for starting sentences
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:28  ram
?RCS: Baseline for dist 3.0
 netwide release.
?RCS:
?MAKE:package spackage: Nothing
?MAKE: -pick wipe $@ %<
?S:package:
?S: This variable contains the name of the package being constructed.
?S: It is primarily intended for the use of later Configure units.
?S:.
?S:spackage:
?S: This variable contains the name of the package being constructed,
?S: with the first letter uppercased, i.e. suitable for starting
?S: sentences.
?S:.
?X: dist-4 has defined PACKAGE: here, which clashes with perly.h
?X:  as package is a reserved keyword in perl
?T:first last
: set package name
package='<PACKAGENAME>'
@if spackage
```

```
first=`echo $package | sed -e 's/^\(.\).*/\1/'`
last=`echo $package | sed -e 's/^.\(.*\)/\1/'`
?X:
?X: So early in the Configure script, we don't have ./tr set up and can't
?X: include Tr in our dependency or that would create a cycle. Therefore,
?X: we have to somehow duplicate the work done in Tr. That's life.
?X:
case "`echo AbyZ | tr '[:lower:]' '[:upper:]' 2>/dev/null`"-"`echo AbyZ | tr '[:upper:]' '[:lower:]'
 2>/dev/null`" in
ABYZ-abyz) spackage=`echo $first | tr '[:lower:]' '[:upper:]'`$last;;
*) spackage=`echo $first | tr '[a-z]' '[A-Z]'`$last;;
esac
@end
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/package.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2017, Karl Williamson
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_wchar: Inhdr
?MAKE: -pick add $@ %<
?S:i_wchar:
?S: This variable conditionally defines the I_WCHAR symbol,
?S: that indicates whether a C program may include <wchar.h>.
?S:.
?C:I_WCHAR:
?C: This symbol, if defined, indicates to the C program that <wchar.h>
?C: is available for inclusion
?C:.
?H:#$i_wchar   I_WCHAR /**/
?H:.
?LINT:set i_wchar
: see if wchar.h is present
set wchar.h i_wchar
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/perl/i_wchar.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_llroundl: Inlibc
?MAKE: -pick add $@ %<
?S:d_llroundl:
?S: This variable conditionally defines the HAS_LLROUNDL symbol, which
?S: indicates to the C program that the llroundl() routine is available
?S: to return the long long value nearest to x away from zero.
?S:.
?C:HAS_LLROUNDL:
?C: This symbol, if defined, indicates that the llroundl routine is
?C: available to return the nearest long long value away from zero of
?C: the long double argument value.
?C:.
?H:#$d_llroundl HAS_LLROUNDL  /**/
?H:.
?LINT:set d_llroundl
: see if llroundl exists
set llroundl d_llroundl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_llroundl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_passwd.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_passwd.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:37:21  ram
?RCS: patch61: useless unit dropped.
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:09:51  ram
?RCS: patch32: created by ADO
```

```
?RCS:
?X:
?X: Useless unit dropped.
?X:
?LINT:empty
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_passwd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_malloc_size d_malloc_good_size d_malloc_usable_size: Inlibc
?MAKE: -pick add $@ %<
?S:d_malloc_size:
?S: This symbol, if defined, indicates that the malloc_size
?S: routine is available for use.
?S:.
?S:d_malloc_good_size:
?S: This symbol, if defined, indicates that the malloc_good_size
?S: routine is available for use.
?S:.
?S:d_malloc_usable_size:
?S: This symbol, if defined, indicates that the malloc_usable_size
?S: routine is available for use.
?S:.
?C:HAS_MALLOC_SIZE:
?C: This symbol, if defined, indicates that
 the malloc_size
?C: routine is available for use.
?C:.
?H:#$d_malloc_size HAS_MALLOC_SIZE  /**/
?H:.
?C:HAS_MALLOC_GOOD_SIZE:
?C: This symbol, if defined, indicates that the malloc_good_size
?C: routine is available for use.
?C:.
?H:#$d_malloc_good_size HAS_MALLOC_GOOD_SIZE /**/
?H:.
```

```
?C:HAS_MALLOC_USABLE_SIZE:
?C: This symbol, if defined, indicates that the malloc_usable_size
?C: routine is available for use.
?C:.
?H:#$d_malloc_usable_size HAS_MALLOC_USABLE_SIZE  /**/
?H:.
?LINT:set d_malloc_size
?LINT:set d_malloc_good_size
?LINT:set d_malloc_usable_size
: see if malloc_size exists
set malloc_size d_malloc_size
eval $inlibc

: see if malloc_size_good exists
set malloc_good_size d_malloc_good_size
eval $inlibc

: see if malloc_usable_size exists
set malloc_usable_size d_malloc_usable_size
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_malloc_size.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_attribut.U,v $
?RCS: Revision 3.0.1.3  1995/01/30  14:33:45  ram
?RCS: patch49: test C program now includes <stdio.h> (WED)
?RCS:
?RCS: Revision 3.0.1.2  1995/01/11  15:25:47  ram
?RCS: patch45: fixed typo in the d_attribut variable (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:08:55  ram
?RCS: patch36: created by ADO
?RCS:
```

```
?MAKE:d_attribut: Myread Oldconfig cat cc ccflags rm Setvar contains
?MAKE: -pick add $@ %<
?S:d_attribut
 (d_attrib):
?S: This variable conditionally defines HASATTRIBUTE, which
?S: indicates the C compiler can check for function attributes,
?S: such as printf formats.
?S:.
?C:HASATTRIBUTE ~ %< (GNUC_ATTRIBUTE_CHECK):
?C: This symbol indicates the C compiler can check for function attributes,
?C: such as printf formats. This is normally only supported by GNU cc.
?C:.
?H:?%<:#$d_attribut HASATTRIBUTE  /**/
?H:?%<:#ifndef HASATTRIBUTE
?H:?%<:#define __attribute__(_arg_)
?H:?%<:#endif
?H:.
?W:%<:__attribute__
?LINT:set d_attribut
?LINT:known __attribute__
: Look for GNU-cc style attribute checking
echo " "
echo "Checking whether your compiler can handle __attribute__ ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
void croak (char* pat,...) __attribute__((format(printf,1,2),noreturn));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $contains 'warning' attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't fully support __attribute__."
  val="$undef"
 else
  echo
 "Your C compiler supports __attribute__."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
set d_attribut
eval $setvar
$rm -f attrib*
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_attribut.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getprotoprotos.U,v $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_getprotoprotos : Hasproto i_netdb
?MAKE: -pick add $@ %<
?S:d_getprotoprotos:
?S: This variable conditionally defines the HAS_GETPROTO_PROTOS symbol,
?S: which indicates to the C program that <netdb.h> supplies
?S: prototypes for the various getproto*() functions.
?S: See also netdbtype.U for probing for various netdb types.
?S:.
?C:HAS_GETPROTO_PROTOS:
?C: This symbol, if defined, indicates that <netdb.h> includes
?C: prototypes for getprotoent(), getprotobyname(), and
?C: getprotobyaddr().
  Otherwise, it is up to the program to guess
?C: them.  See netdbtype.U for probing for various Netdb_xxx_t types.
?C:.
?H:#$d_getprotoprotos HAS_GETPROTO_PROTOS /**/
?H:.
?LINT:set d_getprotoprotos
: see if prototypes for various getprotoxxx netdb.h functions are available
echo " "
set d_getprotoprotos getprotoent $i_netdb netdb.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/d_getprotoprotos.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_recvmsg: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_recvmsg:
?S: This variable conditionally defines the HAS_RECVMSG symbol, which
?S: indicates to the C program that the recvmsg() routine is available.
?S:.
?C:HAS_RECVMSG:
?C: This symbol, if defined, indicates that the recvmsg routine is
?C: available to send structured socket messages.
?C:.
?H:#$d_recvmsg HAS_RECVMSG  /**/
?H:.
?LINT:set d_recvmsg
: see if recvmsg exists
set recvmsg d_recvmsg
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_recvmsg.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_flockproto: Hasproto i_sysfile
?MAKE: -pick add $@ %<
?S:d_flockproto:
?S: This variable conditionally defines the HAS_FLOCK_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the flock() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_FLOCK_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the flock() function.  Otherwise, it is up
?C: to the program to supply one.  A good guess is
?C:  extern int flock(int,
 int);
?C:.
?H:#$d_flockproto HAS_FLOCK_PROTO /**/
?H:.
```

```
?LINT:set d_flockproto
: see if prototype for flock is available
echo " "
set d_flockproto flock $i_sysfile sys/file.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_flockproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_llrintl: Inlibc
?MAKE: -pick add $@ %<
?S:d_llrintl:
?S: This variable conditionally defines the HAS_LLRINTL symbol, which
?S: indicates to the C program that the llrintl() routine is available
?S: to return the long long value closest to a long double (according
?S: to the current rounding mode).
?S:.
?C:HAS_LLRINTL:
?C: This symbol, if defined, indicates that the llrintl routine is
?C: available to return the long long value closest to a long double
?C: (according to the current rounding mode).
?C:.
?H:#$d_llrintl HAS_LLRINTL  /**/
?H:.
?LINT:set d_llrintl
: see if llrintl exists
set llrintl d_llrintl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_llrintl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:usemultiplicity: useithreads Myread Oldconfig Setvar
?MAKE: -pick add $@ %<
```

```
?Y:TOP
?S:usemultiplicity:
?S: This variable conditionally defines the MULTIPLICITY symbol,
?S: and indicates that Perl should be built to use multiplicity.
?S:.
?C:MULTIPLICITY:
?C: This symbol, if defined, indicates that Perl should
?C: be built to use multiplicity.
?C:.
?H:?%<:#ifndef MULTIPLICITY
?H:?%<:#$usemultiplicity MULTIPLICITY  /**/
?H:?%<:#endif
?H:.
?LINT:set usemultiplicity
?INIT:: set usemultiplicity on the Configure command line to enable multiplicity.
: Check if multiplicity is required
?X: We should really have some explanatory text here, and some
?X: automatic setting of sensible defaults.
cat <<EOM

Perl
 can be built so that multiple Perl interpreters can coexist
within the same Perl executable.
EOM

case "$useithreads" in
$define)
 cat <<EOM
This multiple interpreter support is required for interpreter-based threads.
EOM
 val="$define"
 ;;
*) case "$usemultiplicity" in
 $define|true|[yY]*) dflt='y';;
 *) dflt='n';;
 esac
 echo " "
 echo "If this doesn't make any sense to you, just accept the default '$dflt'."
 rp='Build Perl for multiplicity?'
 . ./myread
 case "$ans" in
 y|Y) val="$define" ;;
 *)      val="$undef" ;;
 esac
 ;;
esac
set usemultiplicity
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/usemultiplicity.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Unix.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:20:06  ram
?RCS: patch61: created
?RCS:
?X:
?X: The purpose of this unit is to define things that are common across all
?X: known UNIX platforms. If Configure is ported/used on a non-UNIX
?X: environment, then some of the following variables can be redefined in hint
?X: files.
?X:
?MAKE:Unix _a _o firstmakefile archobjs: Oldconfig
?MAKE: -pick add $@ %<
?S:_a (lib_ext):
?S: This variable defines the extension
 used for ordinary libraries.
?S: For unix, it is '.a'.  The '.' is included.  Other possible
?S: values include '.lib'.
?S:.
?S:_o (obj_ext):
?S: This variable defines the extension used for object files.
?S: For unix, it is '.o'.  The '.' is included.  Other possible
?S: values include '.obj'.
?S:.
?S:firstmakefile:
?S: This variable defines the first file searched by make.  On unix,
?S: it is makefile (then Makefile).  On case-insensitive systems,
?S: it might be something else.  This is only used to deal with
?S: convoluted make depend tricks.
?S:.
?S:archobjs:
?S: This variable defines any additional objects that must be linked
```

```
?S: in with the program on this architecture.  On unix, it is usually
?S: empty.  It is typically used to include emulations of unix calls
?S: or other facilities.  For perl on OS/2, for example, this would
?S: include os2/os2.obj.
?S:.
?INIT:: Extra object files, if any, needed on this platform.
?INIT:archobjs="
: Define several unixisms.
: Hints files
 or command line option can be used to override them.
case "$_a" in
") _a='.a';;
esac
case "$_o" in
") _o='.o';;
esac

@if firstmakefile
: Which makefile gets called first.  This is used by make depend.
case "$firstmakefile" in
") firstmakefile='makefile';;
esac

@end
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Unix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_bcopy.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_bcopy.U,v $
?RCS: Revision 3.0.1.2  1993/10/16  13:48:04  ram
?RCS: patch12: added magic support for bcopy()
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:01:11  ram
?RCS: patch10: now only defines HAS_BCOPY, no macro remap on memcpy (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:44  ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_bcopy: Inlibc
?MAKE: -pick add $@ %<
?S:d_bcopy:
?S: This variable conditionally defines the HAS_BCOPY
 symbol if
?S: the bcopy() routine is available to copy strings.
?S:.
?C:HAS_BCOPY:
?C: This symbol is defined if the bcopy() routine is available to
?C: copy blocks of memory.
?C:.
?H:#$d_bcopy HAS_BCOPY /**/
?H:.
?M:bcopy: HAS_BCOPY
?M:#ifndef HAS_BCOPY
?M:#ifndef bcopy
?M:#define bcopy(s,d,l) memcpy((d),(s),(l))
?M:#endif
?M:#endif
?M:.
?LINT:set d_bcopy
: see if bcopy exists
set bcopy d_bcopy
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_bcopy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_readdir_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_readdir_r readdir_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_dirent extern_C
?MAKE: -pick add $@ %<
?S:d_readdir_r:
?S: This variable conditionally defines the HAS_READDIR_R symbol,
?S: which indicates to the C program that the readdir_r()
?S: routine is available.
?S:.
```

```
?S:readdir_r_proto:
?S: This variable encodes the prototype of readdir_r.
?S: It is zero if d_readdir_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_readdir_r
?S: is defined.
?S:.
?C:HAS_READDIR_R:
?C: This symbol, if defined, indicates that the readdir_r routine
?C: is available to readdir re-entrantly.
?C:.
?C:READDIR_R_PROTO:
?C: This
 symbol encodes the prototype of readdir_r.
?C: It is zero if d_readdir_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_readdir_r
?C: is defined.
?C:.
?H:#$d_readdir_r HAS_READDIR_R /**/
?H:#define READDIR_R_PROTO $readdir_r_proto /**/
?H:.
?T:try hdrs d_readdir_r_proto
: see if readdir_r exists
set readdir_r d_readdir_r
eval $inlibc
case "$d_readdir_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_dirent dirent.h"
 case "$d_readdir_r_proto:$usethreads" in
 ":define") d_readdir_r_proto=define
  set d_readdir_r_proto readdir_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_readdir_r_proto" in
 define)
 case "$readdir_r_proto" in
 "|0) try='int readdir_r(DIR*, struct dirent*, struct dirent**);'
 ./protochk "$extern_C $try" $hdrs && readdir_r_proto=I_TSR ;;
 esac
 case "$readdir_r_proto" in
 "|0) try='int readdir_r(DIR*, struct dirent*);'
 ./protochk "$extern_C $try" $hdrs && readdir_r_proto=I_TS
 ;;
 esac
 case "$readdir_r_proto" in
 "|0) d_readdir_r=undef
  readdir_r_proto=0
  echo "Disabling readdir_r, cannot determine prototype." >&4 ;;
```

```
 * ) case "$readdir_r_proto" in
  REENTRANT_PROTO*) ;;
  *) readdir_r_proto="REENTRANT_PROTO_$readdir_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "readdir_r has no prototype, not using it." >&4 ;;
  esac
  d_readdir_r=undef
  readdir_r_proto=0
  ;;
 esac
 ;;
*) readdir_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_readdir_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS:
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?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:Assert: cat
?MAKE: -pick add $@ %<
?F:./static_assert.h
: static assertion checking include file
?X:
?X: C programs can include this file to perform STATIC_ASSERT() checks
?X: which are done at compile-time and cause the compilation to fail when
?X: the expression is false.
?X:
?X: It is sufficient to compile with: $cc -c $ccflags try.c
?X: There is no need to link the file to spot the assertion failure.
?X:
$cat >static_assert.h <<'EOC'
#define STATIC_ASSERT(expr) \
 do { switch (0) { case ((expr) ? 1 : 0): case 0: break; } }
```

```
 while(0)
EOC
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Assert.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_nl_langinfo: Inlibc i_langinfo
?MAKE: -pick add $@ %<
?S:d_nl_langinfo:
?S: This variable conditionally defines the HAS_NL_LANGINFO symbol, which
?S: indicates to the C program that the nl_langinfo() routine is available.
?S:.
?C:HAS_NL_LANGINFO:
?C: This symbol, if defined, indicates that the nl_langinfo routine is
?C: available to return local data.  You will also need <langinfo.h>
?C: and therefore I_LANGINFO.
?C:.
?H:#$d_nl_langinfo HAS_NL_LANGINFO  /**/
?H:.
?LINT:set d_nl_langinfo
?LINT:use i_langinfo
: see if nl_langinfo exists
set nl_langinfo d_nl_langinfo
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_nl_langinfo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getprotobyname_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getprotobyname_r getprotobyname_r_proto: Inlibc Protochk Hasproto \
```

```
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getprotobyname_r:
?S: This variable conditionally defines the HAS_GETPROTOBYNAME_R symbol,
?S: which indicates to the C program that the getprotobyname_r()
?S: routine is available.
?S:.
?S:getprotobyname_r_proto:
?S: This variable encodes the prototype of getprotobyname_r.
?S: It is zero if d_getprotobyname_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getprotobyname_r
?S: is defined.
?S:.
?C:HAS_GETPROTOBYNAME_R:
?C: This symbol, if
 defined, indicates that the getprotobyname_r routine
?C: is available to getprotobyname re-entrantly.
?C:.
?C:GETPROTOBYNAME_R_PROTO:
?C: This symbol encodes the prototype of getprotobyname_r.
?C: It is zero if d_getprotobyname_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getprotobyname_r
?C: is defined.
?C:.
?H:#$d_getprotobyname_r HAS_GETPROTOBYNAME_R /**/
?H:#define GETPROTOBYNAME_R_PROTO $getprotobyname_r_proto /**/
?H:.
?T:try hdrs d_getprotobyname_r_proto
: see if getprotobyname_r exists
set getprotobyname_r d_getprotobyname_r
eval $inlibc
case "$d_getprotobyname_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getprotobyname_r_proto:$usethreads" in
 ":define") d_getprotobyname_r_proto=define
  set d_getprotobyname_r_proto getprotobyname_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getprotobyname_r_proto" in
 define)
 case "$getprotobyname_r_proto" in
 "|0) try='int getprotobyname_r(const char*, struct
 protoent*, char*, size_t, struct protoent**);'
 ./protochk "$extern_C $try" $hdrs && getprotobyname_r_proto=I_CSBWR ;;
 esac
 case "$getprotobyname_r_proto" in
```

```
"|0) try='struct protoent* getprotobyname_r(const char*, struct protoent*, char*, int);'
./protochk "$extern_C $try" $hdrs && getprotobyname_r_proto=S_CSBI ;;
esac
case "$getprotobyname_r_proto" in
"|0) try='int getprotobyname_r(const char*, struct protoent*, struct protoent_data*);'
./protochk "$extern_C $try" $hdrs && getprotobyname_r_proto=I_CSD ;;
esac
case "$getprotobyname_r_proto" in
"|0) d_getprotobyname_r=undef
 getprotobyname_r_proto=0
 echo "Disabling getprotobyname_r, cannot determine prototype." >&4 ;;
* ) case "$getprotobyname_r_proto" in
 REENTRANT_PROTO*) ;;
 *) getprotobyname_r_proto="REENTRANT_PROTO_$getprotobyname_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "getprotobyname_r has no prototype, not using it." >&4 ;;
 esac
 d_getprotobyname_r=undef
 getprotobyname_r_proto=0
 ;;
esac
;;
*) getprotobyname_r_proto=0
 ;;
esac

Found
 in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
5.36.0/U/threads/d_getprotobyname_r.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: patchlevel.U,v 3.0.1.1 1997/02/28 16:18:41 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: patchlevel.U,v $
```

```
?RCS: Revision 3.0.1.1  1997/02/28  16:18:41  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:patchlevel revision version subversion \
 perl_patchlevel version_patchlevel_string \
 api_revision api_version api_subversion api_versionstring: \
 package test rsrc echo awk osname
?MAKE: -pick
 add $@ %<
?S:revision:
?S: The value of revision comes from the patchlevel.h file.
?S: In a version number such as 5.6.1, this is the "5".
?S: In patchlevel.h, this is referred to as "PERL_REVISION".
?S:.
?S:patchlevel:
?S: The patchlevel level of this package.
?S: The value of patchlevel comes from the patchlevel.h file.
?S: In a version number such as 5.6.1, this is the "6".
?S: In patchlevel.h, this is referred to as "PERL_VERSION".
?S:.
?S:subversion:
?S: The subversion level of this package.
?S: The value of subversion comes from the patchlevel.h file.
?S: In a version number such as 5.6.1, this is the "1".
?S: In patchlevel.h, this is referred to as "PERL_SUBVERSION".
?S: This is unique to perl.
?S:.
?S:version:
?S: The full version number of this package, such as 5.6.1 (or 5_6_1).
?S: This combines revision, patchlevel, and subversion to get the
?S: full version number, including any possible subversions.
?S: This is suitable for use as a directory name, and hence is
?S: filesystem
 dependent.
?S:.
?S:api_revision:
?S: The three variables, api_revision, api_version, and
?S: api_subversion, specify the version of the oldest perl binary
?S: compatible with the present perl.  In a full version string
?S: such as '5.6.1', api_revision is the '5'.
?S: Prior to 5.5.640, the format was a floating point number,
?S: like 5.00563.
?S:
?S: perl.c:incpush() and lib/lib.pm will automatically search in
?S: $sitelib/.. for older directories back to the limit specified
```

```
?S: by these api_ variables.  This is only useful if you have a
?S: perl library directory tree structured like the default one.
?S: See INSTALL for how this works.  The versioned site_perl
?S: directory was introduced in 5.005, so that is the lowest
?S: possible value.  The version list appropriate for the current
?S: system is determined in inc_version_list.U.
?S:
?S: XXX To do:  Since compatibility can depend on compile time
?S: options (such as bincompat, longlong, etc.) it should
?S: (perhaps) be set by
 Configure, but currently it isn't.
?S: Currently, we read a hard-wired value from patchlevel.h.
?S: Perhaps what we ought to do is take the hard-wired value from
?S: patchlevel.h but then modify it if the current Configure
?S: options warrant.  patchlevel.h then would use an #ifdef guard.
?S:.
?S:api_version:
?S: The three variables, api_revision, api_version, and
?S: api_subversion, specify the version of the oldest perl binary
?S: compatible with the present perl.  In a full version string
?S: such as '5.6.1', api_version is the '6'.  See api_revision for
?S: full details.  As a special case, 5.5.0 is rendered in the
?S: old-style as 5.005.  (In the 5.005_0x maintenance series,
?S: this was the only versioned directory in $sitelib.)
?S:.
?S:api_subversion:
?S: The three variables, api_revision, api_version, and
?S: api_subversion, specify the version of the oldest perl binary
?S: compatible with the present perl.  In a full version string
?S: such as '5.6.1', api_subversion is the
 '1'.  See api_revision for
?S: full details.
?S:.
?S:api_versionstring:
?S: This variable combines api_revision, api_version, and
?S: api_subversion in a format such as 5.6.1 (or 5_6_1) suitable
?S: for use as a directory name.  This is filesystem dependent.
?S:.
?S:perl_patchlevel:
?S: This is the Perl patch level, a numeric change identifier,
?S: as defined by whichever source code maintenance system
?S: is used to maintain the patches; currently Perforce.
?S: It does not correlate with the Perl version numbers or
?S: the maintenance versus development dichotomy except
?S: by also being increasing.
?S:.
?S:version_patchlevel_string:
?S: This is a string combining version, subversion and
```

```
?S: perl_patchlevel (if perl_patchlevel is non-zero).
?S: It is typically something like
?S: 'version 7 subversion 1'  or
?S: 'version 7 subversion 1 patchlevel 11224'
?S: It is computed here to avoid duplication of code in myconfig.SH
?S: and lib/Config.pm.
?S:.
?LINT:extern LC_ALL
?LINT:extern LANGUAGE
:
 get the patchlevel
echo " "
echo "Getting the current patchlevel..." >&4
if $test -r $rsrc/patchlevel.h;then
 revision=`awk '/define[  ]+PERL_REVISION/ {print $3}' $rsrc/patchlevel.h`
 patchlevel=`awk '/define[  ]+PERL_VERSION/ {print $3}' $rsrc/patchlevel.h`
 subversion=`awk '/define[  ]+PERL_SUBVERSION/ {print $3}' $rsrc/patchlevel.h`
 api_revision=`awk '/define[  ]+PERL_API_REVISION/ {print $3}' $rsrc/patchlevel.h`
 api_version=`awk '/define[  ]+PERL_API_VERSION/ {print $3}' $rsrc/patchlevel.h`
 api_subversion=`awk '/define[  ]+PERL_API_SUBVERSION/ {print $3}' $rsrc/patchlevel.h`
 perl_patchlevel=`egrep ',"(MAINT|SMOKE)[0-9][0-9]*"' $rsrc/patchlevel.h|tail -1|sed 's/[^0-9]//g'`
else
 revision=0
 patchlevel=0
 subversion=0
 api_revision=0
 api_version=0
 api_subversion=0
 perl_patchlevel=0
 $echo "(You do not have patchlevel.h.  Eek.)"
fi
: Define a handy string here to avoid duplication in myconfig.SH and configpm.
version_patchlevel_string="version $patchlevel subversion $subversion"
case
 "$perl_patchlevel" in
0|") ;;
*)  perl_patchlevel=`echo $perl_patchlevel | sed 's/.* //'`
   version_patchlevel_string="$version_patchlevel_string patch $perl_patchlevel"
   ;;
esac

$echo "(You have $package $version_patchlevel_string.)"

case "$osname" in
dos|vms)
 : XXX Should be a Configure test for double-dots in filenames.
 version=`echo $revision $patchlevel $subversion | \
   $awk '{ printf "%d_%d_%d", $1, $2, $3 }'`
```

```
 api_versionstring=`echo $api_revision $api_version $api_subversion | \
   $awk '{ printf "%d_%d_%d", $1, $2, $3 }'`
 ;;
*)
 version=`echo $revision $patchlevel $subversion | \
   $awk '{ printf "%d.%d.%d", $1, $2, $3 }'`
 api_versionstring=`echo $api_revision $api_version $api_subversion | \
   $awk '{ printf "%d.%d.%d", $1, $2, $3 }'`
 ;;
esac
: Special case the 5.005_xx maintenance series, which used 5.005
: without any subversion label as a subdirectory in $sitelib
if test "${api_revision}${api_version}${api_subversion}" = "550"; then
 api_versionstring='5.005'
fi
```

Found
 in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/patchlevel.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Config_h.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  14:57:43  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:10:49  ram
?RCS: patch59: commented the purpose of the #un-def directive
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:25:39  ram
?RCS: patch49: typo fixes in leading config.h comment (WED)
?RCS:
?RCS: Revision 3.0.1.2  1993/08/24  12:13:20  ram
?RCS: patch3: added TOP as a local shell temporary variable
?RCS:
?RCS: Revision 3.0.1.1  1993/08/19  06:42:20
  ram
?RCS: patch1: leading config.sh searching was not aborting properly
```

```
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file ends up producing the config_h.SH script, which is run to produce
?X: the config.h file.  The file ./.Config_h below contains all the ?H: lines
?X: extracted out of all the units.  Metaconfig itself adds the !GROK!THIS!.
?X: Note that this code isn't included into Configure, but must be shipped with.
?X:
?X: For those who wish to know why the file is config_h.SH instead of the more
?X: natural config.h.SH, well... it is to support systems like MS-DOG. Only one
?X: 'dot' is allowed within the file name, as it is part of the "extension" of
?X: the file. MS-DOG will not let you have two 'dots' because that would mean
?X: two "extensions".
?X:
?MAKE:Config_h: Id End Config_sh Obsol_h myuname cf_time cf_by package src
?MAKE: -pick c_h_weed $@ %<
?MAKE: -pick c_h_weed $@ ./Config_h
?MAKE: -pick
 c_h_weed $@ ./Obsol_h
?T:CONFIG TOP
?LINT:unclosed !GROK!THIS!
?LINT:extern CONFIG_H CONFIG_SH
?LINT:change CONFIG_H CONFIG_SH
?LINT:nocomment
case "$CONFIG_SH" in
") CONFIG_SH=config.sh;;
esac
case "$CONFIG_H" in
") CONFIG_H=config.h;;
esac
case $CONFIG in
")
 if test -f $CONFIG_SH; then TOP=.;
 elif test -f ../$CONFIG_SH; then TOP=..;
 elif test -f ../../$CONFIG_SH; then TOP=../..;
 elif test -f ../../../$CONFIG_SH; then TOP=../../..;
 elif test -f ../../../../$CONFIG_SH; then TOP=../../../..;
 else
  echo "Can't find $CONFIG_SH."; exit 1
 fi
 . $TOP/$CONFIG_SH
 ;;
esac
?X: Make sure we are in the directory where the .SH file is located.
case "$0" in
*/*) cd `expr X$0 : 'X\(.*\)/'` ;;
```

```
esac
echo "Extracting $CONFIG_H (with variable substitutions)"
?X:
?X: Since we unconditionally translate leading #undef into /*#define, we're
?X: stuck when we really want to have a #undef in config.h. That's why there
?X: is provision here for #un-def, which is translated back into #undef after
?X:
 all original #undef have been processed.
?X:
?X: Previously, we changed all
?X:  #undef FOO /**/
?X: into
?X:  /*#define FOO /**/
?X: The xlc compiler (available on IBM's AIX) complains that this is
?X: an illegal attempt to write a nested comment, and warns against it.
?X: There's apparently no way to shut the compiler up, either.
?X: This sed command from Hallvard B Furuseth <h.b.furuseth@usit.uio.no>
?X: changes it to
?X:  /*#define FOO / **/
sed <<!GROK!THIS! >$CONFIG_H -e 's!^#undef\(.*/\)\*!/\*#define\1 \*!' -e 's!^#un-def!#undef!'
/*
* This file was produced by running the config_h.SH script, which
* gets its values from $CONFIG_SH, which is generally produced by
* running Configure.
*
* Feel free to modify any of this as the need arises.  Note, however,
* that running config_h.SH again will wipe out any changes you've made.
* For a more permanent change edit $CONFIG_SH and rerun config_h.SH.
*
* \$Id: Config_h.U 1 2006-08-24 12:32:52Z rmanfredi $
*/

/*
* Package name
      : $package
* Source directory  : $src
* Configuration time: $cf_time
* Configured by     : $cf_by
* Target system     : $myuname
*/

#ifndef _config_h_
#define _config_h_
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Config_h.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: man3dir.U,v 3.1 1999/07/08 20:52:19 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1996-1999, Andy Dougherty
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: man3dir.U,v $
?RCS: Revision 3.1  1999/07/08 20:52:19  doughera
?RCS: Updated for perl5.005_5x
?RCS:
?RCS: Revision 3.0.1.1  1997/02/28  16:10:34  ram
?RCS: patch61: created
?RCS:
?X: This was originally specific to perl5.  Since perl5 has man pages that
?X: go in both man1/ and man3/ directories, we need both man1dir
?X: and man3dir.  This unit is basically dist's mansrc.U with
?X: man3 used instead
 of man everywhere.
?X: I then added various tests because perl5 has *lots* of man3
?X: pages with long file names. -- ADO
?X:
?MAKE:man3dir man3direxp man3ext installman3dir: cat nroff Loc Oldconfig \
 sed man1dir spackage package Getfile Setprefixvar Prefixit Prefixup \
 d_flexfnam privlib Myread test
?MAKE: -pick add $@ %<
?Y:TOP
?D:man3dir=''
?S:man3dir:
?S: This variable contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?D:man3direxp=''
?S:man3direxp:
?S: This variable is the same as the man3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installman3dir=''
?S:installman3dir:
?S: This variable is really the same as man3direxp, unless you are using
```

```
?S: AFS in which case it points to the read/write location whereas
?S: man3direxp only
 points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:man3ext:
?S: This variable contains the extension that the manual page should
?S: have: one of 'n', 'l', or '3'.  The Makefile must supply the '.'.
?S: See man3dir.
?S:.
?T:prog tdflt
?LINT:change prefixvar
?LINT:set man3direxp
: determine where library module manual pages go
set man3dir man3dir none
eval $prefixit
$cat <<EOM

$spackage has manual pages for many of the library modules.
EOM

case "$nroff" in
nroff)
 $cat <<'EOM'
However, you don't have nroff, so they're probably useless to you.
EOM
 case "$man3dir" in
 ") man3dir="none";;
 esac;;
esac

case "$d_flexfnam" in
undef)
 $cat <<'EOM'
However, your system can't handle the long file names like File::Basename.3.
EOM
 case "$man3dir" in
 ") man3dir="none";;
 esac;;
esac

echo "If you don't want the manual sources installed, answer 'none'."
?X: In 5.005_57 and earlier, I had the following notes:
?X:
 We do not use /usr/local/man/man3 because some man programs will
?X: only show the /usr/local/man/man3 contents, and not the system ones,
?X: thus man less will show the perl module less.pm, but not the system
?X: less command.  We might also conflict with Tcl man pages.
```

```
?X: However, something like /opt/perl/man/man3 is fine.
?X:
?X: However, opinion seems to be shifting such that 'man POSIX' ought
?X: to just work.  -- Andy Dougherty  July 8, 1999
?X:
?X: remove any trailing -3.0 or other version indication from $package
prog=`echo $package | $sed 's/-*[0-9.]*$//'`
case "$man3dir" in
") dflt=`echo "$man1dir" | $sed -e 's/man1/man3/g' -e 's/man\.1/man\.3/g'`
 if $test -d "$privlib/man/man3"; then
  cat <<EOM >&4

WARNING:  Previous versions of perl installed man3 pages into
$privlib/man/man3.  This version will suggest a
new default of $dflt.
EOM
  tdflt=$dflt
  dflt='n'
  rp='Do you wish to preserve the old behavior?(y/n)'
  . ./myread
  case "$ans" in
  y*) dflt="$privlib/man/man3"
 ;;
  *)  dflt=$tdflt ;;
  esac
   fi
 ;;
*) dflt="$man3dir" ;;
esac
case "$dflt" in
' ') dflt=none ;;
esac
echo " "
fn=dn+~
rp="Where do the $package library man pages (source) go?"
. ./getfile
prefixvar=man3dir
. ./setprefixvar

case "$man3dir" in
") man3dir=' '
 installman3dir=";;
esac

: What suffix to use on installed man pages
case "$man3dir" in
' ')
 man3ext='0'
```

```
 ;;
*)
 rp="What suffix should be used for the $package library man pages?"
 case "$man3ext" in
 ") case "$man3dir" in
  *3)  dflt=3 ;;
  *3p) dflt=3p ;;
  *3pm) dflt=3pm ;;
  *l) dflt=l;;
  *n) dflt=n;;
  *o) dflt=o;;
  *p) dflt=p;;
  *C) dflt=C;;
  *L) dflt=L;;
  *L3) dflt=L3;;
  *) dflt=3;;
  esac
  ;;
 *) dflt="$man3ext";;
 esac
 . ./myread
 man3ext="$ans"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/man3dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sgndchr.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:44:25  ram
?RCS: patch61: added a ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  14:00:24  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:16  ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sgndchr: cat rm +cc +ccflags Setvar
?MAKE: -pick add $@ %<
?S:d_sgndchr:
?S: This variable conditionally defines the SIGNEDCHAR symbol, which
?S: indicates to the C program
 that signed characters are available.
?S:.
?C:SIGNEDCHAR:
?C: This symbol, if defined, indicates that characters are a signed type.
?C: If not defined, things declared as signed characters (and that make
?C: use of negative values) should probably be declared as shorts instead.
?C:.
?H:#$d_sgndchr SIGNEDCHAR /**/
?H:.
?F:!try
?LINT:set d_sgndchr
: check for signed chars
echo " "
echo "Checking to see if your C compiler can do signed chars..." >&4
$cat >try.c <<'EOCP'
int main()
{
 char c = 0;

 c--;
 exit(c >= 0);
}
EOCP
$cc $ccflags -o try try.c
if ./try; then
 val="$define"
 echo "It certainly can."
else
 val="$undef"
 echo "It can't.  I'll have to make some things type short."
fi
set d_sgndchr
eval $setvar
$rm -f try*
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sgndchr.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: i_vfork.U 1 2006-08-24 12:32:52Z rmanfredi $

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_vfork.U,v $
?RCS: Revision 3.0.1.1  1994/05/06  15:05:44  ram
?RCS: patch23: avoid inclusion of <vfork.h> if no vfork() used (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_vfork: Inhdr d_vfork
?MAKE: -pick add $@ %<
?S:i_vfork:
?S: This variable conditionally defines the I_VFORK symbol, and indicates
?S: whether a C program should include vfork.h.
?S:.
?C:I_VFORK:
?C: This symbol,
 if defined, indicates to the C program that it should
?C: include vfork.h.
?C:.
?H:#$i_vfork I_VFORK /**/
?H:.
: see if this is a vfork system
case "$d_vfork" in
"$define")
 set vfork.h i_vfork
 eval $inhdr
 ;;
*)
 i_vfork="$undef"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_vfork.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
```

```
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtoull: Inlibc d_longlong Compile cat run
?MAKE: -pick add $@ %<
?S:d_strtoull:
?S: This variable conditionally defines the HAS_STRTOULL symbol, which
?S: indicates to the C program that the strtoull() routine is available.
?S:.
?C:HAS_STRTOULL:
?C: This symbol, if defined, indicates that the strtoull routine is
?C: available to convert strings to unsigned long longs.
?C:.
?H:#$d_strtoull HAS_STRTOULL  /**/
?H:.
?F:!try
: see if strtoull exists
set strtoull d_strtoull
eval $inlibc

case "$d_longlong-$d_strtoull" in
"$define-$define")
 $cat <<EOM
Checking whether your strtoull() works okay...
EOM
 $cat >try.c <<'EOCP'
#include <stdlib.h>
#include <errno.h>
#ifdef __hpux
#define strtoull __strtoull
#endif
#include
 <stdio.h>
static int bad = 0;
void check(const char *s, long long eull, int een) {
 long long gull;
 errno = 0;
 gull = strtoull(s, 0, 10);
 if (!((gull == eull) && (errno == een)))
  bad++;
}
int main() {
 check(" 1",                                1LL, 0);
 check(" 0",                                0LL, 0);
 check("18446744073709551615",  18446744073709551615ULL, 0);
 check("18446744073709551616",  18446744073709551615ULL, ERANGE);
#if 0 /* strtoull() for /^-/ strings is undefined. */
```

```
 check("-1",                    18446744073709551615ULL, 0);
 check("-18446744073709551614",                   2LL, 0);
 check("-18446744073709551615",                   1LL, 0);
 check("-18446744073709551616", 18446744073709551615ULL, ERANGE);
 check("-18446744073709551617", 18446744073709551615ULL, ERANGE);
#endif
 if (!bad)
  printf("ok\n");
}
EOCP
 set try
 if eval $compile; then
  case "`$run ./try`" in
  ok) echo "Your strtoull() seems to be working okay."
 ;;
  *) cat <<EOM >&4
Your strtoull() doesn't seem to be working okay.
EOM
     d_strtoull="$undef"
     ;;
  esac
 else
  echo "(I can't seem to compile the test program--assuming it doesn't)"
  d_strtoull="$undef"
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strtoull.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysmount.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysmount: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysmount:
?S: This variable conditionally defines the I_SYSMOUNT symbol,
?S: and indicates whether a C program should include <sys/mount.h>.
?S:.
?C:I_SYS_MOUNT:
?C: This symbol, if defined, indicates that <sys/mount.h> exists and
```

```
?C: should be included.
?C:.
?H:#$i_sysmount I_SYS_MOUNT  /**/
?H:.
?LINT:set i_sysmount
: see if this is a sys/mount.h system
set sys/mount.h i_sysmount
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_sysmount.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_nanosleep: Inlibc
?MAKE: -pick add $@ %<
?S:d_nanosleep:
?S: This variable conditionally defines HAS_NANOSLEEP
?S: if nanosleep() is available to sleep with 1E-9 sec accuracy.
?S:.
?C:HAS_NANOSLEEP:
?C: This symbol, if defined, indicates that the nanosleep
?C: system call is available to sleep with 1E-9 sec accuracy.
?C:.
?H:#$d_nanosleep HAS_NANOSLEEP  /**/
?H:.
?LINT:set d_nanosleep
: see if nanosleep exists
set nanosleep d_nanosleep
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_nanosleep.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_semop.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_semop.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_semop: Inlibc
?MAKE: -pick add $@ %<
?S:d_semop:
?S: This variable conditionally defines the HAS_SEMOP symbol, which
?S: indicates to the C program that the semop() routine is available.
?S:.
?C:HAS_SEMOP:
?C: This symbol, if defined, indicates that the semop() routine is
?C: available to execute semaphore operations.
?C:.
?H:#$d_semop
 HAS_SEMOP  /**/
?H:.
?LINT:set d_semop
: see if semop exists
set semop d_semop
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_semop.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strerror_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_strerror_r strerror_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads extern_C
?MAKE: -pick add $@ %<
?S:d_strerror_r:
?S: This variable conditionally defines the HAS_STRERROR_R symbol,
```

```
?S: which indicates to the C program that the strerror_r()
?S: routine is available.
?S:.
?S:strerror_r_proto:
?S: This variable encodes the prototype of strerror_r.
?S: It is zero if d_strerror_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_strerror_r
?S: is defined.
?S:.
?C:HAS_STRERROR_R:
?C: This symbol, if defined, indicates that the strerror_r routine
?C: is available to strerror
 re-entrantly.
?C:.
?C:STRERROR_R_PROTO:
?C: This symbol encodes the prototype of strerror_r.
?C: It is zero if d_strerror_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_strerror_r
?C: is defined.
?C:.
?H:#$d_strerror_r HAS_STRERROR_R /**/
?H:#define STRERROR_R_PROTO $strerror_r_proto /**/
?H:.
?T:try hdrs d_strerror_r_proto
: see if strerror_r exists
set strerror_r d_strerror_r
eval $inlibc
case "$d_strerror_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h define string.h"
 case "$d_strerror_r_proto:$usethreads" in
 ":define") d_strerror_r_proto=define
  set d_strerror_r_proto strerror_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_strerror_r_proto" in
 define)
 case "$strerror_r_proto" in
 "|0) try='int strerror_r(int, char*, size_t);'
 ./protochk "$extern_C $try" $hdrs && strerror_r_proto=I_IBW ;;
 esac
 case "$strerror_r_proto" in
 "|0) try='int strerror_r(int, char*, int);'
 ./protochk "$extern_C $try" $hdrs && strerror_r_proto=I_IBI
 ;;
 esac
 case "$strerror_r_proto" in
```

```
"|0) try='char* strerror_r(int, char*, size_t);'
./protochk "$extern_C $try" $hdrs && strerror_r_proto=B_IBW ;;
esac
case "$strerror_r_proto" in
"|0) d_strerror_r=undef
 strerror_r_proto=0
 echo "Disabling strerror_r, cannot determine prototype." >&4 ;;
* ) case "$strerror_r_proto" in
 REENTRANT_PROTO*) ;;
 *) strerror_r_proto="REENTRANT_PROTO_$strerror_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "strerror_r has no prototype, not using it." >&4 ;;
 esac
 d_strerror_r=undef
 strerror_r_proto=0
 ;;
esac
;;
*) strerror_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_strerror_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_msgctl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msgctl.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:38  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_msgctl: Inlibc
?MAKE: -pick add $@ %<
?S:d_msgctl:
```

```
?S: This variable conditionally defines the HAS_MSGCTL symbol, which
?S: indicates to the C program that the msgctl() routine is available.
?S:.
?C:HAS_MSGCTL:
?C: This symbol, if defined, indicates that the msgctl() routine is
?C: available to perform message control operations.
?C:.
?H:#$d_msgctl
 HAS_MSGCTL  /**/
?H:.
?LINT:set d_msgctl
: see if msgctl exists
set msgctl d_msgctl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_msgctl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_lroundl: Inlibc
?MAKE: -pick add $@ %<
?S:d_lroundl:
?S: This variable conditionally defines the HAS_LROUNDL symbol, which
?S: indicates to the C program that the lroundl() routine is available
?S: to return the integral value nearest to x away from zero.
?S:.
?C:HAS_LROUNDL:
?C: This symbol, if defined, indicates that the lroundl routine is
?C: available to return the nearest integral value away from zero of
?C: the long double argument value.
?C:.
?H:#$d_lroundl HAS_LROUNDL  /**/
?H:.
?LINT:set d_lroundl
: see if lroundl exists
set lroundl d_lroundl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_lroundl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_quadmath: Inhdr
?MAKE: -pick add $@ %<
?S:i_quadmath:
?S: This variable conditionally defines I_QUADMATH, which indicates
?S: to the C program that it should include <quadmath.h>.
?S:.
?C:I_QUADMATH:
?C: This symbol, if defined, indicates that <quadmath.h> exists and
?C: should be included.
?C:.
?H:#$i_quadmath I_QUADMATH  /**/
?H:.
?LINT:set i_quadmath
: see if this is a quadmath.h system
set quadmath.h i_quadmath
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_quadmath.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Obsol_sh.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Obsol_sh.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:11  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file is prepended to .MT/Obsol_sh if that file is not empty. That file
?X: contains the necessary mappings of new symbols to obsolete ones.
?X:
?MAKE:Obsol_sh:
?MAKE: -pick prepend $@ ./Obsol_sh
?LINT:nocomment
#
# The following symbols are obsolete. They are mapped to the new
# symbols only to ease the transition process. The
```

```
 sources should be
# updated so as to use the new symbols only, since supporting of those
# obsolete symbols may end without notice.
#
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Obsol_sh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cppstdin.U,v $
?RCS: Revision 3.0.1.4  1994/10/29  16:08:34  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.3  1994/01/24  14:05:38  ram
?RCS: patch16: comment for CPPLAST was missing
?RCS:
?RCS: Revision 3.0.1.2  1993/12/15  08:18:58  ram
?RCS: patch15: new variables cpprun and cpplast, guaranteed wrapper-free
?RCS: patch15: cppstdin now tries to use cc, even at the cost of a wrapper
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:00:53  ram
?RCS: patch6:
 remove wrapper when not actually used
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:38  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:cppstdin cppminus cpprun cpplast: contains test Myread Oldconfig Loc \
 cpp +cc rm hint osname gccversion startsh eunicefix
?MAKE: -pick add $@ %<
?S:cppstdin:
?S: This variable contains the command which will invoke the C
?S: preprocessor on standard input and put the output to stdout.
?S: It is primarily used by other Configure units that ask about
?S: preprocessor symbols.
?S:.
?S:cppminus:
```

```
?S: This variable contains the second part of the string which will invoke
?S: the C preprocessor on the standard input and produce to standard
?S: output.  This variable will have the value "-" if cppstdin needs
?S: a minus to specify standard input, otherwise the value is "".
?S:.
?S:cpprun:
?S: This variable contains the command which will invoke a C preprocessor
?S: on standard input and put the output to stdout. It is guaranteed not
?S: to be a wrapper
 and may be a null string if no preprocessor can be
?S: made directly available. This preprocessor might be different from the
?S: one used by the C compiler. Don't forget to append cpplast after the
?S: preprocessor options.
?S:.
?S:cpplast:
?S: This variable has the same functionality as cppminus, only it applies to
?S: cpprun and not cppstdin.
?S:.
?C:CPPSTDIN:
?C: This symbol contains the first part of the string which will invoke
?C: the C preprocessor on the standard input and produce to standard
?C: output.  Typical value of "cc -E" or "/lib/cpp", but it can also
?C: call a wrapper. See CPPRUN.
?C:.
?C:CPPMINUS:
?C: This symbol contains the second part of the string which will invoke
?C: the C preprocessor on the standard input and produce to standard
?C: output.  This symbol will have the value "-" if CPPSTDIN needs a minus
?C: to specify standard input, otherwise the value is "".
?C:.
?C:CPPRUN:
?C: This symbol contains the string which will invoke a C preprocessor on
?C: the
 standard input and produce to standard output. It needs to end
?C: with CPPLAST, after all other preprocessor flags have been specified.
?C: The main difference with CPPSTDIN is that this program will never be a
?C: pointer to a shell wrapper, i.e. it will be empty if no preprocessor is
?C: available directly to the user. Note that it may well be different from
?C: the preprocessor used to compile the C program.
?C:.
?C:CPPLAST:
?C: This symbol is intended to be used along with CPPRUN in the same manner
?C: symbol CPPMINUS is used with CPPSTDIN. It contains either "-" or "".
?C:.
?H:#define CPPSTDIN "$cppstdin"
?H:#define CPPMINUS "$cppminus"
?H:#define CPPRUN "$cpprun"
?H:#define CPPLAST "$cpplast"
```

```
?H:.
?F:cppstdin !testcpp.out !testcpp.c
?T:wrapper x_cpp x_minus ok
: see how we invoke the C preprocessor
echo " "
echo "Now, how can we feed standard input to your C preprocessor..." >&4
cat <<'EOT' >testcpp.c
#define ABC abc
#define XYZ xyz
ABC.XYZ
EOT
cd ..
if $test ! -f cppstdin;
 then
 echo "$startsh" >cppstdin
if $test "X$osname" = "Xaix" -a "X$gccversion" = X; then
?X: AIX cc -E doesn't show the absolute headerfile
?X: locations but we'll cheat by using the -M flag.
 echo 'cat >.$$.c; rm -f .$$.u; "$cc" ${1+"$@"} -M -c .$$.c 2>/dev/null; \
 test -s .$$.u && \
 awk """$2 ~ /\.h$/ { print "# 0 \""$2"\"" }""" .$$.u; \
 rm -f .$$.o .$$.u; "$cc" -E ${1+"$@"} .$$.c; rm .$$.c' >> cppstdin
else
 echo 'cat >.$$.c; "$cc" -E ${1+"$@"} .$$.c; rm .$$.c' >>cppstdin
fi; else
 echo "Keeping your $hint cppstdin wrapper."
fi
chmod 755 cppstdin
$eunicefix cppstdin
wrapper=`pwd`/cppstdin
ok='false'
cd UU

?X:
?X: We'll run the cpp tests again if we don't have any valid C preprocessor
?X: yet or don't know how to proceed without a wrapper (in which case cpprun
?X: is empty and that's really annoying...)
?X:
if $test "X$cppstdin" != "X" && \
 $cppstdin $cppminus <testcpp.c >testcpp.out 2>&1 && \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1
then
 echo "You used to use
 $cppstdin $cppminus so we'll use that again."
 case "$cpprun" in
 ") echo "But let's see if we can live without a wrapper..." ;;
 *)
  if $cpprun $cpplast <testcpp.c >testcpp.out 2>&1 && \
```

```
   $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1
  then
   echo "(And we'll use $cpprun $cpplast to preprocess directly.)"
   ok='true'
  else
   echo "(However, $cpprun $cpplast does not work, let's see...)"
  fi
  ;;
 esac
else
 case "$cppstdin" in
 ") ;;
 *)
  echo "Good old $cppstdin $cppminus does not seem to be of any help..."
  ;;
 esac
fi

if $ok; then
 : nothing
elif echo 'Maybe """$cc"' -E" will work...'; \
 $cc -E <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Yup, it does."
 x_cpp="$cc -E"
 x_minus=";
elif echo 'Nope...maybe """$cc"' -E -" will work...'; \
 $cc -E - <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Yup, it does."
 x_cpp="$cc -E"
 x_minus='-';
elif echo 'Nope...maybe """$cc"'
 -P" will work...'; \
 $cc -P <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Yipee, that works!"
 x_cpp="$cc -P"
 x_minus=";
elif echo 'Nope...maybe """$cc"' -P -" will work...'; \
 $cc -P - <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "At long last!"
 x_cpp="$cc -P"
 x_minus='-';
elif echo 'No such luck, maybe "'$cpp"' will work...'; \
 $cpp <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
```

```
 echo "It works!"
 x_cpp="$cpp"
 x_minus="";
elif echo 'Nixed again...maybe "'$cpp' -" will work...'; \
 $cpp - <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Hooray, it works!  I was beginning to wonder."
 x_cpp="$cpp"
 x_minus='-';
elif echo 'Uh-uh.  Time to get fancy.  Trying a wrapper...'; \
 $wrapper <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 x_cpp="$wrapper"
 x_minus=''
 echo
 "Eureka!"
else
 dflt=''
 rp="No dice.  I can't find a C preprocessor.  Name one:"
 . ./myread
 x_cpp="$ans"
 x_minus=''
 $x_cpp <testcpp.c >testcpp.out 2>&1
 if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
  echo "OK, that will do." >&4
 else
echo "Sorry, I can't get that to work.  Go find one and rerun Configure." >&4
  exit 1
 fi
fi

case "$ok" in
false)
 cppstdin="$x_cpp"
 cppminus="$x_minus"
 cpprun="$x_cpp"
 cpplast="$x_minus"
?X:
?X: If /lib/cpp is used, try using a wrapper to increase our chances to have
?X: the C compiler and our $cppstdin agree on the same symbols... However,
?X: since cpprun is guaranteed not to be a wrapper, we must clear it if the
?X: only preprocessor we found was a wrapper, with all our luck...
?X:
 set X $x_cpp
 shift
 case "$1" in
 "$cpp")
  echo "Perhaps can we force $cc -E using a wrapper..."
```

```
  if $wrapper <testcpp.c >testcpp.out 2>&1; \
   $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1
  then
   echo "Yup, we can."
   cppstdin="$wrapper"
   cppminus=";
  else
   echo
 "Nope, we'll have to live without it..."
  fi
  ;;
 esac
 case "$cpprun" in
 "$wrapper")
  cpprun="
  cpplast="
  ;;
 esac
 ;;
esac

case "$cppstdin" in
"$wrapper"|'cppstdin') ;;
*) $rm -f $wrapper;;
esac
$rm -f testcpp.c testcpp.out
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/cppstdin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pwrite.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_pwrite.U,v $
?RCS:
?MAKE:d_pwrite: Inlibc
?MAKE: -pick add $@ %<
?S:d_pwrite:
?S: This variable conditionally defines the HAS_PWRITE symbol, which
```

```
?S: indicates to the C program that the pwrite() routine is available.
?S:.
?C:HAS_PWRITE :
?C: This symbol, if defined, indicates that the pwrite routine is
?C: available to perform writes on a file descriptor at a given offset.
?C:.
?H:#$d_pwrite HAS_PWRITE  /**/
?H:.
?LINT:set d_pwrite
: see if pwrite
 exists
set pwrite d_pwrite
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_pwrite.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gnulibc.U,v 3.0.1.1 1997/02/28 15:34:33 ram Exp $
?RCS:
?RCS: Copyright (c) 1996,1998 Andy Dougherty
?RCS: Copyright (c) 1996, Sven Verdoolaege
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_gnulibc.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:34:33  ram
?RCS: patch61: created
?RCS:
?MAKE:d_gnulibc gnulibc_version: Myread Oldconfig Setvar rm_try \
 cat Compile run
?MAKE: -pick add $@ %<
?S:d_gnulibc:
?S: Defined if we're dealing with the GNU C Library.
?S:.
?S:gnulibc_version:
?S: This variable contains the version number of the GNU C library.
?S: It is
 usually something like '2.2.5'.  It is a plain '' if this
?S: is not the GNU C library, or if the version is unknown.
?S:.
?C:HAS_GNULIBC:
```

```
?C: This symbol, if defined, indicates to the C program that
?C: the GNU C library is being used.  A better check is to use
?C: the __GLIBC__ and __GLIBC_MINOR__ symbols supplied with glibc.
?C:.
?H:#$d_gnulibc HAS_GNULIBC /**/
?H:?%<:#if defined(HAS_GNULIBC) && !defined(_GNU_SOURCE)
?H:?%<:#   define _GNU_SOURCE
?H:?%<:#endif
?H:.
?F:!glibc.ver !try
?LINT: set d_gnulibc
?X: gnulibc can be executed by calling __libc_main().
?X: Ulrich Drepper doesn't think any other libc does that,
?X: but we check if it says 'GNU C Library' to be sure.
?X:
?X: Alas, as of 3/1998 glibc 2.0.7 reportedly isn't going to
?X: have __libc_main() anymore. :-(.  Fortunately, all released
?X: versions of glibc 2.x.x _do_ have CPP variables.  For 2.0.6,
?X: they are:
?X: #define __GLIBC__  2
?X: #define__GLIBC_MINOR__ 0.
?X: (The '6' isn't available :-(.
?X: glibc2.1 will also
 have
?X:  extern const char * __gnu_get_libc_release(void);
?X:  extern const char * __gnu_get_libc_version(void);
?X: functions.   --thanks to Andreas Jaeger.   --AD  6/1998.
?X: Although the exact format isn't documented, __gnu_get_libc_version()
?X: returns a simple string '2.1.3' in glibc 2.1.3.
?X:
: Check if we are using the GNU C library
echo " "
echo "Checking for GNU C Library..." >&4
cat >try.c <<'EOCP'
/* Find out version of GNU C library.  __GLIBC__ and __GLIBC_MINOR__
  alone are insufficient to distinguish different versions, such as
  2.0.6 and 2.0.7.  The function gnu_get_libc_version() appeared in
  libc version 2.1.0.      A. Dougherty,  June 3, 2002.
*/
#include <stdio.h>
int main(void)
{
#ifdef __GLIBC__
#   ifdef __GLIBC_MINOR__
#       if __GLIBC__ >= 2 && __GLIBC_MINOR__ >= 1 && !defined(__cplusplus)
#           include <gnu/libc-version.h>
    printf("%s\n",  gnu_get_libc_version());
#       else
```

```
    printf("%d.%d\n",  __GLIBC__, __GLIBC_MINOR__);
#
   endif
#   else
 printf("%d\n",  __GLIBC__);
#   endif
   return 0;
#else
   return 1;
#endif
}
EOCP
set try
if eval $compile_ok && $run ./try > glibc.ver; then
 val="$define"
 gnulibc_version=`$cat glibc.ver`
 echo "You are using the GNU C Library version $gnulibc_version"
else
 val="$undef"
 gnulibc_version=''
 echo "You are not using the GNU C Library"
fi
$rm_try glibc.ver
set d_gnulibc
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_gnulibc.U
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```
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?RCS:
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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_sockatmark: Inlibc
?MAKE: -pick add $@ %<
?S:d_sockatmark:
?S: This variable conditionally defines the HAS_SOCKATMARK symbol, which
?S: indicates to the C program that the sockatmark() routine is available.
?S:.
?C:HAS_SOCKATMARK:
?C: This symbol, if defined, indicates that the sockatmark routine is
?C: available to test whether a socket is at the out-of-band mark.
?C:.
```

```
?H:#$d_sockatmark HAS_SOCKATMARK  /**/
?H:.
?LINT:set d_sockatmark
: see if sockatmark exists
set sockatmark d_sockatmark
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_sockatmark.U
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```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_class: Inlibc
?MAKE: -pick add $@ %<
?S:d_class:
?S: This variable conditionally defines the HAS_CLASS symbol, which
?S: indicates to the C program that the class() routine is available.
?S:.
?C:HAS_CLASS:
?C: This symbol, if defined, indicates that the class routine is
?C: available to classify doubles.  Available for example in AIX.
?C: The returned values are defined in <float.h> and are:
?C:
?C: FP_PLUS_NORM Positive normalized, nonzero
?C: FP_MINUS_NORM Negative normalized, nonzero
?C: FP_PLUS_DENORM Positive denormalized, nonzero
?C: FP_MINUS_DENORM Negative denormalized, nonzero
?C: FP_PLUS_ZERO +0.0
?C: FP_MINUS_ZERO -0.0
?C: FP_PLUS_INF +INF
?C: FP_MINUS_INF -INF
?C: FP_NANS  Signaling
 Not a Number (NaNS)
?C: FP_NANQ  Quiet Not a Number (NaNQ)
?C:.
?H:#$d_class HAS_CLASS  /**/
?H:.
?LINT:set d_class
: see if class exists
set class d_class
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_class.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_futimes: Compile cat rm_try run
?MAKE: -pick add $@ %<
?S:d_futimes:
?S: This variable conditionally defines the HAS_FUTIMES symbol, which
?S: indicates to the C program that the futimes() routine is available.
?S:.
?C:HAS_FUTIMES:
?C: This symbol, if defined, indicates that the futimes routine is
?C: available to change file descriptor time stamps with struct timevals.
?C:.
?H:#$d_futimes HAS_FUTIMES  /**/
?H:.
?T:rc
?F:!try
: check for a working futimes
d_futimes="$undef"
echo " "
echo "Checking if you have a working futimes()" >&4
$cat >try.c <<EOCP
#include <stdio.h>
#include <stdlib.h>
#include <sys/time.h>
#include <errno.h>
#include <fcntl.h>
#include <stdlib.h>

int main ()
{
   int fd,
 rv;
   fd = open ("try.c", O_RDWR);
   if (-1 == fd) exit (1);
   rv = futimes (fd, NULL);
   exit (rv == -1 ? errno : 0);
}
```

```
EOCP
set try
if eval $compile; then
   `$run ./try`
   rc=$?
   case "$rc" in
 0)  echo "Yes, you have" >&4
     d_futimes="$define"
     ;;
 *)  echo "No, you have futimes, but it isn't working ($rc) (probably harmless)" >&4
     ;;
   esac
else
   echo "No, it does not (probably harmless)" >&4
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_futimes.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libs.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  16:09:11  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.5  1995/07/25  14:12:05  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  16:24:22  ram
?RCS: patch36: removed old broken thislib/thatlib processing (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:05:44  ram
?RCS: patch30: code cleanup with if/elif by ADO and RAM
?RCS: patch30: undone patch23 for libswanted default
 setting
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:08:45  ram
```

```
?RCS: patch23: now includes ordered default libswanted variable (ADO)
?RCS: patch23: major cleanup for library lookups (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:02:31  ram
?RCS: patch6: added default for libs
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libs libsfound libsfiles libsdirs libspath libscheck: \
 test cat Myread Oldconfig Loc libpth package xlibpth so _a \
 +usesocks sed +cc +ccflags +ldflags rm
?MAKE: -pick add $@ %<
?S:libs:
?S: This variable holds the additional libraries we want to use.
?S: It is up to the Makefile to deal with it.  The list can be empty.
?S:.
?S:libsfound:
?S: This variable holds the full pathnames of the libraries
?S: we found and accepted.
?S:.
?S:libsfiles:
?S: This variable holds the filenames aka basenames of the libraries
?S: we found and accepted.
?S:.
?S:libsdirs:
?S: This variable holds the directory
 names aka dirnames of the libraries
?S: we found and accepted, duplicates are removed.
?S:.
?S:libspath:
?S: This variable holds the directory names probed for libraries.
?S:.
?S:libscheck:
?S: This variable is intended to be set by hint files, if needed.
?S: It should contain shell code that will be eval'ed with $xxx holding
?S: some library file.  It may change $xxx if needed.
?S: For instance, on an Irix platform, you may make sure the right
?S: library file is used depending on the cc command line, so that the
?S: correct library is used depending on the selected ABI (for 32 and
?S: 64-bit compilations).
?S:
?S: Here is an example of code that could be found in a hint file on Irix
?S: when the selected compiler was for 32-bit -- that code is put in the
?S: cc.cbu call-back unit to be invoked AFTER the C compiler and its
?S: flags have been chosen:
?S:
?S:  libscheck='case "$xxx" in
```

```
?S:  *.a) /bin/ar p $xxx `/bin/ar t $xxx | sed q` >$$.o;
?S:   case "`/usr/bin/file $$.o`" in
?S:   *N32*)
 rm -f $$.o ;;
?S:   *) rm -f $$.o; xxx=/no/n32$xxx ;;
?S:   esac ;;
?S:  *) case "`/usr/bin/file $xxx`" in
?S:   *N32*) ;;
?S:   *) xxx=/no/n32$xxx ;;
?S:   esac ;;
?S:  esac'
?S:.
?D:libs="
?LINT:extern libswanted
?LINT:change libswanted
?INIT:: default library list
?INIT:libswanted="
?X: This order is chosen so that libraries  -lndir, -ldir, -lucb, -lbsd,
?X: -lBSD, -lPW, and -lx only get used if there are unresolved
?X: routines at link time.  Usually, these are backwards compatability
?X: libraries, and may not be as reliable as the standard c library.
?X:
?X: The -lsocket -linet -lnsl order has been reported to be necessary
?X: for at least one SVR4 implementation.
?X: -lc must proceed -lucb or -lbsd for most Solaris applications.
?X: -lc_s proceeds -lc so we pick up the shared library version, if
?X: it is available.
?X:
?X: The ordering of c, posix, and cposix is a guess and almost
?X: certainly wrong on about half of all systems.
?X:
?X: Set proper libswanted in your private
 Myinit.U if needed.
?X:
?X:: default ordered library list
?X:libswanted='net socket inet bind nsl nm sdbm gdbm ndbm dbm malloc dl'
?X:libswanted="$libswanted dld sun m c_s c posix cposix ndir dir ucb"
?X:libswanted="$libswanted bsd BSD PW x"
?X:
?INIT:: should be set by hint files if needed
?INIT:libscheck="
?T:xxx yyy thislib thisdir libstyle linkmsg
?F:lt.c lt
: Looking for optional libraries
echo " "
echo "Checking for optional libraries..." >&4
case "$libs" in
' '|'') dflt='';;
```

```
*) dflt="$libs";;
esac
case "$libswanted" in
") libswanted='c_s';;
esac
?X: libsocks has nasty naming scheme.
?X: This does not work if somebody wants SOCKS 4.
case "$usesocks" in
"$define") libswanted="$libswanted socks5 socks5_sh" ;;
esac
?X: Used later for link checks
echo "extern char printf(); int main() { printf(); return 0; }" > lt.c
libsfound="
libsfiles="
libsdirs="
libspath="
for thisdir in $libpth $xlibpth; do
 test -d $thisdir && libspath="$libspath $thisdir"
done
for thislib in $libswanted;
 do
 for thisdir in $libspath; do
    xxx="
    if $test ! -f "$xxx" ; then
   xxx=`ls $thisdir/lib$thislib.$so.[0-9]* 2>/dev/null | $sed -n '1p'`
   $test -f "$xxx" && eval $libscheck
   $test -f "$xxx" && libstyle=shared
    fi
    if test ! -f "$xxx"; then
   xxx=$thisdir/lib$thislib.$so
   $test -f "$xxx" && eval $libscheck
   $test -f "$xxx" && libstyle=shared
    fi
    if test ! -f "$xxx"; then
   xxx=$thisdir/lib$thislib$_a
        $test -f "$xxx" && eval $libscheck
   $test -f "$xxx" && libstyle=static
    fi
    if test ! -f "$xxx"; then
   xxx=$thisdir/$thislib$_a
        $test -f "$xxx" && eval $libscheck
   $test -f "$xxx" && libstyle=static
    fi
    if test ! -f "$xxx"; then
   xxx=$thisdir/lib${thislib}_s$_a
        $test -f "$xxx" && eval $libscheck
   $test -f "$xxx" && libstyle=static
   $test -f "$xxx" && thislib=${thislib}_s
```

```
    fi
    if test ! -f "$xxx"; then
  xxx=$thisdir/Slib$thislib$_a
        $test -f "$xxx" && eval $libscheck
  $test
 -f "$xxx" && libstyle=static
    fi
    if $test -f "$xxx"; then
?X:
?X: It is not sufficient to find a .so on the disk.  We must make sure
?X: that we can indeed supply the -lfoo line on the cc line to link against
?X: that library.  On Linux for instance, a versionned .so will not be
?X: implicitly linked against, whereas it will work fine on Solaris 2.6.
?X:  --RAM, 10/10/2003
?X:
  if $cc -o lt $ccflags $ldflags lt.c -l$thislib >/dev/null 2>&1;
  then
   linkmsg=""
  else
   linkmsg=" but I can't link against it"
  fi
  case "$libstyle" in
  shared) echo "Found -l$thislib (shared)$linkmsg." ;;
  static) echo "Found -l$thislib$linkmsg." ;;
  *)      echo "Found -l$thislib ($libstyle)$linkmsg." ;;
  esac
  case " $dflt " in
  *"-l$thislib "*) ;;
  *)
   case "$linkmsg" in
   ")
    dflt="$dflt -l$thislib"
    libsfound="$libsfound $xxx"
    yyy=`basename $xxx`
    libsfiles="$libsfiles $yyy"
    yyy=`echo $xxx|$sed -e "s%/$yyy\\$%%"`
    case " $libsdirs
 " in
    *" $yyy "*) ;;
    *) libsdirs="$libsdirs $yyy" ;;
    esac
      ;;
   esac
   ;;
  esac
  break
    fi
 done
```

```
 if $test ! -f "$xxx"; then
     echo "No -l$thislib."
 fi
done
set X $dflt
shift
dflt="$*"
case "$libs" in
") dflt="$dflt";;
*) dflt="$libs";;
esac
case "$dflt" in
' '|") dflt='none';;
esac
$rm -f lt.c lt

$cat <<EOM

In order to compile $package on your machine, a number of libraries
are usually needed.  Include any other special libraries here as well.
Say "none" for none.  The default list is almost always right.
EOM

echo " "
rp="Which libraries to use?"
. ./myread
case "$ans" in
none) libs=' ';;
*) libs="$ans";;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/libs.U
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```
?RCS: $Id: d_dup2.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_dup2.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:56  ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_dup2: Inlibc
?MAKE: -pick add $@ %<
?S:d_dup2:
?S: This variable conditionally defines HAS_DUP2 if dup2() is
?S: available to duplicate file descriptors.
?S:.
?C:HAS_DUP2 (DUP2):
?C: This symbol, if defined, indicates that the dup2 routine is
?C: available to duplicate file descriptors.
?C:.
?H:#$d_dup2 HAS_DUP2 /**/
?H:.
?LINT:set d_dup2
:
 see if dup2 exists
set dup2 d_dup2
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_dup2.U
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```
?RCS: $Id: d_sigsetmk.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sigsetmk.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:23  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sigsetmk: Csym Setvar
?MAKE: -pick add $@ %<
?S:d_sigsetmk:
?S: This variable conditionally defines the HAS_SIGSETMASK symbol, which
?S: indicates to the C program that the sigsetmask() routine is available
?S: to set current signal mask.
?S:.
?C:HAS_SIGSETMASK (SIGSETMASK):
?C: This symbol, if defined, indicates that the sigsetmask()
```

```
 routine is
?C: available to set current signal mask. Otherwise, you should probably
?C: emulate this by using signal(), but fear race conditions...
?C:.
?H:#$d_sigsetmk HAS_SIGSETMASK  /**/
?H:.
?LINT:set d_sigsetmk
: see if sigsetmask exists
echo " "
if set sigsetmask val -f d_sigsetmk; eval $csym; $val; then
 echo 'sigsetmask() found.' >&4
 val="$define"
else
 echo "sigsetmask() not found -- We'll use signal()." >&4
 val="$undef"
fi
set d_sigsetmk
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sigsetmk.U
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```
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?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_thread_local perl_thread_local: cat echo Setvar Compile run rm_try hint
?MAKE: -pick add $@ %<
?S:d_thread_local:
?S: This variable conditionally defines the PERL_THREAD_LOCAL symbol. In
?S: turn that gives a linkage specification for thread-local storage.
?S:.
?S:perl_thread_local:
?S: This variable gives the value for the PERL_THREAD_LOCAL symbol (when
?S: defined), which gives a linkage specification for thread-local storage.
?S:.
?C:PERL_THREAD_LOCAL:
?C: This symbol, if defined, gives a linkage specification for thread-local
?C: storage. For example, for a C11 compiler this will be _Thread_local.
?C: Beware, some compilers are sensitive to the C language standard they are
?C: told
 to parse. For example, suncc defaults to C11, so our probe will
?C: report that _Thread_local can be used. However, if the -std=c99 is later
```

```
?C: added to the compiler flags, then _Thread_local will become a syntax
?C: error. Hence it is important for these flags to be consistent between
?C: probing and use.
?C:.
?H:#$d_thread_local PERL_THREAD_LOCAL $perl_thread_local /**/
?H:.
?T:thread_local
?F:!try
?LINT:set d_thread_local
: see what flavor, if any, of thread local storage is supported
echo " "
echo "Checking to see if your system supports C11 thread local storage..."
$cat > try.c <<'EOCP'
#include <stdio.h>
#include <stdlib.h>
#include <pthread.h>

static int plus_one = 1;
static int minus_one = -1;

PROBE_MACRO int *minion;

int callback (const void *a, const void *b) {
  int val_a = *minion * *(const int *)a;
  int val_b = *minion * *(const int *)b;
  return val_a < val_b ? -1 : val_a > val_b;
}

#define SIZE 8

void *thread_function(void *arg) {
  /* thread local variables
 should start zeroed in each thread. */
  if (minion != NULL) {
      fprintf(stderr, "__thread variable started with %p, should be NULL\n",
              minion);
      exit(2);
  }
  minion = &minus_one;

  int array[SIZE];
  unsigned int i;
  for (i = 0; i < SIZE; ++i) {
      /* "Hash randomisation" - this array isn't in sorted order: */
      array[i ^ 5] = i * i;
  }

  qsort(array, SIZE, sizeof(int), callback);
```

```
  int bad = 0;
  for (i = 0; i < SIZE; ++i) {
      int want = (SIZE - 1 - i) * (SIZE - 1 - i);
      int have = array[i];
      if (want != have) {
          ++bad;
          fprintf(stderr, "array[%u] - want %i, have %i\n", i, want, have);
      }
  }
  if (bad)
      exit(3);

  return NULL;
}

int main(int argc, char **argv) {
  if (minion != NULL) {
      fprintf(stderr, "__thread variable started with %p, should be NULL\n",
              minion);
      exit(4);
  }

  minion = &plus_one;

  pthread_t
 tid;
  int result = pthread_create(&tid, NULL, thread_function, NULL);
  if (result) {
      fprintf(stderr, "pthread_create failed (%d)\n", result);
      exit(5);
  }

  result = pthread_join(tid, NULL);
  if (result) {
      fprintf(stderr, "pthread_join failed (%d)\n", result);
      exit(6);
  }

  if (minion == NULL) {
      fprintf(stderr, "__thread variable should not be NULL\n");
      exit(7);
  }
  if (!(minion == &plus_one && *minion == 1)) {
      fprintf(stderr, "__thread variable should be %d @ %p, not %d @ %p\n",
              1, &plus_one, *minion, minion);
      exit(8);
  }
```

```
  return 0;
}
EOCP

# Respect a hint (or previous) value for perl_thread_local, if there is one.
case "$perl_thread_local" in
") # Check the various possibilities, and break out on success.
 for thread_local in _Thread_local __thread; do
  set try -DPROBE_MACRO=$thread_local
  if eval $compile && $run ./try; then
   $echo "Your compiler supports $thread_local."
 >&4
   val=$define
   perl_thread_local="$thread_local";
   break;
  fi
  $echo "Your compiler does NOT support $thread_local." >&4
  val="$undef"
 done
 ;;
*thread*|*Thread*) # Some variant of thread local exists.
 echo "Keeping your $hint value of $perl_thread_local."
 val=$define
 ;;
*)  # Unrecognized previous value -- blindly trust the supplied
 # value and hope it makes sense.  Use old value for
 # d_thread_local, if there is one.
 echo "Keeping your $hint value of $perl_thread_local."
 case "$d_thread_local" in
  ") val=$define ;;
  *)  val=$d_thread_local ;;
 esac
 ;;
esac
set d_thread_local
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_thread_local.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Prefixit.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Prefixit.U,v $
?RCS: Revision 3.0.1.1  1995/01/30  14:29:22  ram
?RCS: patch49: created
?RCS:
?X:
?X: Used as: "set dflt var dir; eval $prefixit" to set $dflt to be
?X: $prefix/dir by default, or the previous $var depending on certain
?X: conditions:
?X: - If the $oldprefix variable is empty, then $prefix holds the same
?X:   value as on previous runs. Therefore, reuse $var if set, otherwise
?X:   set $dflt to $prefix/dir.
?X: - If $oldprefix is not
 empty, then set $dflt to $prefix/dir if $var
?X:   is empty (first run). Otherwise, if $var is $oldprefix/dir, then
?X:   change it to $prefix/dir. If none of the above, reuse the old $var.
?X:
?X: When dir is omitted, the dflt variable is set to $var if prefix did not
?X: change, to an empty value otherwise. If dir=none, then a single space
?X: in var is kept as-is, even if the prefix changes.
?X:
?MAKE:Prefixit: prefix oldprefix
?MAKE: -pick add $@ %<
?LINT:define prefixit
?S:prefixit:
?S: This shell variable is used internally by Configure to reset
?S: the leading installation prefix correctly when it is changed.
?S:  set dflt var [dir]
?S:  eval $prefixit
?S: That will set $dflt to $var or $prefix/dir depending on the
?S: value of $var and $oldprefix.
?S:.
?V:prefixit
?T:tp
: set the prefixit variable, to compute a suitable default value
prefixit='case "$3" in
""|none)
 case "$oldprefix" in
 "") eval "$1=\"\$$2\"";;
 *)
  case "$3" in
  "") eval "$1=";;
  none)
```

```
  eval "tp=\"\$$2\"";
  case
 "$tp" in
  ""|" "|none) eval "$1=\"\$$2\"";;
  *) eval "$1=";;
  esac;;
 esac;;
esac;;
*)
 eval "tp=\"$oldprefix-\$$2-\"; eval "tp=\"$tp\"";
 case "$tp" in
 --|/*--|\~*--) eval "$1=\"$prefix/$3\"";;
 /*-$oldprefix/*|\~*-$oldprefix/*)
  eval "$1=\`echo \$$2 | sed \"s,^$oldprefix,$prefix,\"\`";;
 *) eval "$1=\"\$$2\"";;
 esac;;
esac'
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Prefixit.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_xdrs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_xdrs.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_xdrs: cat Csym Setvar
?MAKE: -pick add $@ %<
?S:d_xdrs:
?S: This symbol conditionally defines HAS_XDRS which indicates to the C
?S: program that XDR serialization routines are available.
?S:.
?C:HAS_XDRS (XDRS):
?C: This symbol if defined indicates to the C program that the XDR
?C: serialization routines are available to transfer data
 accross
?C: various architectures.
```

```
?C:.
?H:#$d_xdrs HAS_XDRS /**/
?H:.
?LINT:set d_xdrs
: see if XDR is available
echo " "
if set xdr_int val -f d_xdrs; eval $csym; $val; then
 echo "Ahh! You have XDR routines for network communications." >&4
 val="$define"
else
 $cat >&4 <<EOM
Sigh! You do not have XDR routines -- Network communications may be hazardous.
EOM
 val="$undef"
fi
set d_xdrs
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_xdrs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: newsspool.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: newsspool.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:newsspool newsspoolexp: Getfile Oldconfig
?MAKE: -pick add $@ %<
?S:newsspool:
?S: This variable contains the eventual value of the NEWSSPOOL symbol,
?S: which is the directory name where news articles are spooled.  It
?S: may have a ~ on the front of it.
?S:.
?S:newsspoolexp:
?S: This is the same as the newsspool variable, but is
 filename expanded
?S: at configuration time, for programs not wanting to deal with it at
```

```
?S: run-time.
?S:.
?C:NEWSSPOOL:
?C: This symbol contains the directory name where news articles are
?C: spooled.  The program must be prepared to do ~ expansion on it.
?C:.
?C:NEWSSPOOL_EXP:
?C: This is the same as NEWSSPOOL, but is filename expanded at
?C: configuration time, for use in programs not willing to do so
?C: at run-time.
?C:.
?H:#define NEWSSPOOL "$newsspool" /**/
?H:#define NEWSSPOOL_EXP "$newsspoolexp" /**/
?H:.
: locate news spool directory
case "$newsspool" in
")
 dflt=/usr/spool/news
 ;;
*) dflt="$newsspool";;
esac
echo " "
fn=d~
rp='Where are news spooled?'
. ./getfile
newsspool="$ans"
newsspoolexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/newsspool.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fcntl_can_lock.U,v$
?RCS:
?RCS: Copyright (c) 2000, Andrew Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_fcntl_can_lock.U,v $
?RCS:
?MAKE:d_fcntl_can_lock: d_fcntl Compile Setvar cat rm_try run signal_t i_stdlib
?MAKE: -pick add $@ %<
?S:d_fcntl_can_lock:
?S: This variable conditionally defines the FCNTL_CAN_LOCK symbol
?S: and indicates whether file locking with fcntl() works.
?S:.
```

```
?C:FCNTL_CAN_LOCK:
?C: This symbol, if defined, indicates that fcntl() can be used
?C: for file locking.  Normally on Unix systems this is defined.
?C: It may be undefined on VMS.
?C:.
?H:#$d_fcntl_can_lock FCNTL_CAN_LOCK  /**/
?H:.
?F:!try
?LINT: set d_fcntl_can_lock
?X: fcntl may not be fully functional.  As of November 2000, on VMS and
?X: DOS/DJGPP, fctnl-based locking doesn't work.
?X: Thanks
 to Craig A. Berry <craig.berry@psinetcs.com> for this test.
: See if fcntl-based locking works.
echo " "
$cat >try.c <<EOCP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <unistd.h>
#include <fcntl.h>
#include <signal.h>
$signal_t blech(int x) { exit(3); }
int main() {
#if defined(F_SETLK) && defined(F_SETLKW)
    struct flock flock;
    int retval, fd;
    fd = open("try.c", O_RDONLY);
    flock.l_type = F_RDLCK;
    flock.l_whence = SEEK_SET;
    flock.l_start = flock.l_len = 0;
    signal(SIGALRM, blech);
    alarm(10);
    retval = fcntl(fd, F_SETLK, &flock);
    close(fd);
    (retval < 0 ? exit(2) : exit(0));
#else
    exit(2);
#endif
}
EOCP
echo "Checking if fcntl-based file locking works... "
case "$d_fcntl" in
"$define")
 set try
 if eval $compile_ok; then
  if $run ./try; then
```

```
   echo "Yes, it seems to work."
   val="$define"
  else
   echo "Nope, it didn't work."
   val="$undef"
   case "$?" in
   3) $cat >&4 <<EOM
***
*** I had to
 forcibly timeout from fcntl(..., F_SETLK, ...).
*** This is (almost) impossible.
*** If your NFS lock daemons are not feeling well, something like
*** this may happen, please investigate.  Cannot continue, aborting.
***
EOM
    exit 1
    ;;
   esac
  fi
 else
  echo "I'm unable to compile the test program, so I'll assume not."
  val="$undef"
 fi
 ;;
*) val="$undef";
 echo "Nope, since you don't even have fcntl()."
 ;;
esac
set d_fcntl_can_lock
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fcntl_can_lock.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_internet.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_internet.U,v $
```

```
?RCS: Revision 3.0.1.1  1993/09/13  16:02:04  ram
?RCS: patch10: most mailers support Internet addresses nowadays (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_internet: Myread Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_internet:
?S: This variable conditionally defines the INTERNET symbol, which
?S: indicates to the C program that there is a mailer available
 which
?S: supports internet-style addresses (user@site.domain).
?S:.
?C:INTERNET:
?C: This symbol, if defined, indicates that there is a mailer available
?C: which supports internet-style addresses (user@site.domain).
?C:.
?H:#$d_internet INTERNET /**/
?H:.
?LINT:set d_internet
: check for internet mailer
dflt=y
case "$d_internet" in
"$undef") dflt=n;;
esac
cat <<EOM

Most mailers can deliver mail to addresses of the INTERNET persuasion,
such as user@host.edu.  Some older mailers, however, require the complete
path to the destination to be specified in the address.

EOM
rp="Does your mailer understand INTERNET addresses?"
. ./myread
case "$ans" in
y*) val="$define";;
*)  val="$undef";;
esac
set d_internet
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_internet.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: libnlist.U 1 2006-08-24 12:32:52Z rmanfredi $

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libnlist.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:08:02  ram
?RCS: patch61: added usrinc and mips on the dependency line
?RCS: patch61: make sure we call ./mips
?RCS: patch61: added a ?LINT: hint
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:00  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libnlist: Loc libpth Guess usrinc _a
?MAKE: -pick add $@ %<
?S:libnlist (libmld):
?S: This variable contains the name of the library required to
 get the
?S: definition of the nlist() function.  On a MIPS RISC/OS box, it is -lmld.
?S: Under Sys Vr4, it is -lelf.  Otherwise, its value is empty.
?S:.
?T:xxx
?LINT:use usrinc
: see if we need a special library for 'nlist()'
echo " "
: How about doing this if nlist is not in libc...
if ./mips ; then
 libnlist='-lmld'
else
 xxx=`./loc libelf$_a x $libpth`
 case "$xxx" in
 x)  ;;
 *)
  libnlist="$xxx"
  ;;
 esac
fi
case "$libnlist" in
") echo "No special library for nlist() seems necessary." >&4
 ;;
*)  echo "nlist() can be found in $libnlist." >&4
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/libnlist.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_mkstemp.U,v 3.0.1.1 1994/08/29 16:11:57 ram Exp $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_mkstemp.U,v $
?RCS:
?MAKE:d_mkstemp: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkstemp:
?S: This variable conditionally defines the HAS_MKSTEMP symbol, which
?S: indicates to the C program that the mkstemp() routine is available
?S: to exclusively create and open a uniquely named temporary file.
?S:.
?C:HAS_MKSTEMP :
?C: This symbol, if defined, indicates that the mkstemp routine is
?C: available to exclusively create and open a uniquely named
?C: temporary file.
?C:.
?H:#$d_mkstemp HAS_MKSTEMP  /**/
?H:.
?LINT:set d_mkstemp
: see if mkstemp exists
set mkstemp d_mkstemp
eval
 $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_mkstemp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2009 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
?MAKE:d_inetpton: Inlibc
?MAKE: -pick add $@ %<
?S:d_inetpton:
?S: This variable conditionally defines the HAS_INETPTON symbol,
?S: which indicates to the C program that the inet_pton() function
?S: is available.
?S:.
?C:HAS_INETPTON:
?C: This symbol, if defined, indicates that the inet_pton() function
?C: is available to parse IPv4 and IPv6 strings.
?C:.
?H:#$d_inetpton HAS_INETPTON  /**/
?H:.
?LINT:set d_inetpton
: see if inet_pton exists
set inet_pton d_inetpton
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_inetpton.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_socket.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:46:00  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:08:04  ram
?RCS: patch16: can now safely declare private nm_extract in dependencies
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_socket d_oldsock d_sockpair socketlib sockethdr: contains libc \
 echo n c nm_opt nm_extract Inlibc Csym _a
?MAKE: -pick add $@ %<
?S:d_socket:
```

```
?S: This
 variable conditionally defines HAS_SOCKET, which indicates
?S: that the BSD socket interface is supported.
?S:.
?S:d_sockpair:
?S: This variable conditionally defines the HAS_SOCKETPAIR symbol, which
?S: indicates that the BSD socketpair() is supported.
?S:.
?S:d_oldsock:
?S: This variable conditionally defines the OLDSOCKET symbol, which
?S: indicates that the BSD socket interface is based on 4.1c and not 4.2.
?S:.
?S:socketlib:
?S: This variable has the names of any libraries needed for socket support.
?S:.
?S:sockethdr:
?S: This variable has any cpp -I flags needed for socket support.
?S:.
?C:HAS_SOCKET (SOCKET):
?C: This symbol, if defined, indicates that the BSD socket interface is
?C: supported.
?C:.
?C:HAS_SOCKETPAIR (SOCKETPAIR):
?C: This symbol, if defined, indicates that the BSD socketpair() call is
?C: supported.
?C:.
?C:USE_OLDSOCKET (OLDSOCKET):
?C: This symbol, if defined, indicates that the 4.1c BSD socket interface
?C: is supported instead of the 4.2/4.3 BSD
 socket interface. For instance,
?C: there is no setsockopt() call.
?C:.
?H:#$d_socket HAS_SOCKET  /**/
?H:#$d_sockpair HAS_SOCKETPAIR /**/
?H:#$d_oldsock USE_OLDSOCKET /**/
?H:.
?T:val
?LINT:use libc
?LINT:set d_sockpair
: see whether socket exists
socketlib=''
sockethdr=''
echo " "
$echo $n "Hmm... $c" >&4
if set socket val -f d_socket; eval $csym; $val; then
 echo "Looks like you have Berkeley networking support." >&4
 d_socket="$define"
?X: now check for advanced features
```

```
 if set setsockopt val -f; eval $csym; $val; then
  d_oldsock="$undef"
 else
  echo "...but it uses the old 4.1c interface, rather than 4.2" >&4
  d_oldsock="$define"
 fi
else
?X: HP-UX, for one, puts all the socket stuff in socklib.o. Note that if we
?X: come here on HP-UX, then we must have used nm to get symbols, or we really
?X: don't have sockets anyway...
 if $contains socklib libc.list >/dev/null 2>&1; then
  echo "Looks like you have Berkeley networking support." >&4
  d_socket="$define"
  : we will have
 to assume that it supports the 4.2 BSD interface
  d_oldsock="$undef"
 else
  echo "You don't have Berkeley networking in libc$_a..." >&4
?X: look for an optional networking library
  if test -f /usr/lib/libnet$_a; then
?X: space between two  '(' needed for ksh
   ( (nm $nm_opt /usr/lib/libnet$_a | eval $nm_extract) ||  \
   ar t /usr/lib/libnet$_a) 2>/dev/null >> libc.list
   if $contains socket libc.list >/dev/null 2>&1; then
   echo "...but the Wollongong group seems to have hacked it in." >&4
    socketlib="-lnet"
    sockethdr="-I/usr/netinclude"
    d_socket="$define"
?X: now check for advanced features
    if $contains setsockopt libc.list >/dev/null 2>&1; then
     d_oldsock="$undef"
    else
     echo "...using the old 4.1c interface, rather than 4.2" >&4
     d_oldsock="$define"
    fi
   else
    echo "or even in libnet$_a, which is peculiar." >&4
    d_socket="$undef"
    d_oldsock="$undef"
   fi
  else
   echo "or anywhere else I see." >&4
   d_socket="$undef"
   d_oldsock="$undef"
  fi
 fi
fi
```

```
@if
 HAS_SOCKETPAIR || d_sockpair
: see if socketpair exists
set socketpair d_sockpair
eval $inlibc

@end
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_socket.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libdbm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libdbm.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:56:57  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libdbm: test Loc libpth _a
?MAKE: -pick add $@ %<
?S:libdbm:
?S: This variable contains the argument to pass to the loader in order
?S: to get the dbm library routines.  If there is no dbm or ndbm
?S: library, it is null.
?S:.
?T:xxx
:
 see if we should include -ldbm
echo " "
if $test -r /usr/lib/libndbm$_a || $test -r /usr/local/lib/libndbm$_a ; then
 echo "-lndbm found." >&4
 libdbm='-lndbm'
elif $test -r /usr/lib/libdbm$_a || $test -r /usr/local/lib/libdbm$_a ; then
 echo "-ldbm found." >&4
 libdbm='-ldbm'
else
```

```
 xxx=`./loc libdbm$_a x $libpth`
 case "$xxx" in
 x)
  echo "No dbm library found." >&4
  libdbm=''
  ;;
 *)
  echo "DBM library found in $xxx." >&4
  libdbm="$xxx"
  ;;
 esac
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/libdbm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_syslog.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_syslog.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:46:56  ram
?RCS: patch61: replaced .o with $_o all over the place
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:43  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_syslog: test Csym Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_syslog:
?S: This variable conditionally defines the HAS_SYSLOG symbol, which
?S: indicates to the C program that syslog() exists on this system.
?S:.
?C:HAS_SYSLOG
 (LIBSYSLOG):
?C: This symbol, if defined, indicates that the program can rely on the
?C: system providing syslog().  Otherwise, the syslog code provided by
?C: the package should be used.
?C:.
?H:#$d_syslog HAS_SYSLOG /**/
```

```
?H:.
?LINT:set d_syslog
: see if syslog is available
echo " "
if $test `./findhdr syslog.h` && \
 (set syslog val -f d_syslog; eval $csym; $val); then
 echo "syslog() found." >&4
 val="$define"
else
 echo "syslog() not found in your C library." >&4
 val="$undef"
fi
set d_syslog
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_syslog.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001, Jarkko Hietaniemi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_u32align: Compile cat rm_try Oldconfig run i_stdlib \
 byteorder u32type Myread Setvar u8type signal_t
?MAKE: -pick add $@ %<
?S:d_u32align:
?S: This variable tells whether you must access character data
?S: through U32-aligned pointers.
?S:.
?C:U32_ALIGNMENT_REQUIRED:
?C: This symbol, if defined, indicates that you must access
?C: character data through U32-aligned pointers.
?C:.
?H:?%<:#ifndef U32_ALIGNMENT_REQUIRED
?H:?%<:#$d_u32align U32_ALIGNMENT_REQUIRED /**/
?H:?%<:#endif
?H:.
?F:!try
: Checking 32bit alignedness
$cat
```

```
 <<EOM

Checking to see whether you can access character data unalignedly...
EOM
case "$d_u32align" in
")   $cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#define U32 $u32type
#define BYTEORDER 0x$byteorder
#define U8 $u8type
#include <signal.h>
#ifdef SIGBUS
$signal_t bletch(int s) { exit(4); }
#endif
int main() {
#if BYTEORDER == 0x1234 || BYTEORDER == 0x4321
   volatile U8 buf[8];
   volatile U32 *up;
   int i;

   if (sizeof(U32) != 4) {
 printf("sizeof(U32) is not 4, but %d\n", sizeof(U32));
 exit(1);
   }

   fflush(stdout);

#ifdef SIGBUS
   signal(SIGBUS, bletch);
#endif

   buf[0] = 0;
   buf[1] = 0;
   buf[2] = 0;
   buf[3] = 1;
   buf[4] = 0;
   buf[5] = 0;
   buf[6] = 0;
   buf[7] = 1;

   for (i = 0; i < 4; i++) {
 up = (U32*)(buf + i);
 if (! ((*up == 1 << (8*i)) ||   /* big-endian */
        (*up == 1 << (8*(3-i)))  /* little-endian */
```

```
      )
    )
 {
     printf("read failed (%x)\n", *up);

    exit(2);
 }
   }

   /* write test */
   for (i = 0; i < 4; i++) {
 up = (U32*)(buf + i);
 *up = 0xBeef;
 if (*up != 0xBeef) {
     printf("write failed (%x)\n", *up);
     exit(3);
 }
   }

   exit(0);
#else
   printf("1\n");
   exit(1);
#endif
   return 0;
}
EOCP
set try
if eval $compile_ok; then
 echo "(Testing for character data alignment may crash the test.  That's okay.)" >&4
 $run ./try 2>&1 >/dev/null
 case "$?" in
 0) cat >&4 <<EOM
You can access character data pretty unalignedly.
EOM
  d_u32align="$undef"
  ;;
 *) cat >&4 <<EOM
It seems that you must access character data in an aligned manner.
EOM
  d_u32align="$define"
  ;;
 esac
else
 rp='Can you access character data at unaligned addresses?'
 dflt='n'
 . ./myread
 case "$ans" in
```

```
 [yY]*) d_u32align="$undef"  ;;
 *) d_u32align="$define" ;;
 esac
fi
$rm_try
;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_u32align.U
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```
?RCS: $Id: d_open3.U,v 3.0.1.2 1997/02/28 15:37:12 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_open3.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:37:12  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  13:58:26  ram
?RCS: patch56: added knowledge of the O_NONBLOCK symbol
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_open3: Compile test cat h_fcntl h_sysfile rm_try Setvar Findhdr run i_stdlib
?MAKE: -pick add $@ %<
?X: It would be easy to separate the
 h_O_stuff from this.
?X: Is there a reason to do so? -- HMS
?S:d_open3:
?S: This variable conditionally defines the HAS_OPEN3 manifest constant,
?S: which indicates to the C program that the 3 argument version of
?S: the open(2) function is available.
?S:.
?C:HAS_OPEN3 (OPEN3):
?C: This manifest constant lets the C program know that the three
?C: argument form of open(2) is available.
?C:.
?H:#$d_open3 HAS_OPEN3  /**/
```

```
?H:.
?W:%<:O_RDONLY O_WRONLY O_RDWR O_NDELAY O_APPEND O_SYNC O_CREAT O_TRUNC
?W:%<:O_EXCL O_NONBLOCK
?F:!try
?LINT:set d_open3
?LINT:change h_fcntl h_sysfile
: Locate the flags for 'open()'
echo " "
$cat >try.c <<EOCP
#include <sys/types.h>
#ifdef I_FCNTL
#include <fcntl.h>
#endif
#ifdef I_SYS_FILE
#include <sys/file.h>
#endif
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() {
 if(O_RDONLY);
#ifdef O_TRUNC
 exit(0);
#else
 exit(1);
#endif
}
EOCP
: check sys/file.h first to get FREAD on Sun
if $test `./findhdr sys/file.h` && \
  set try -DI_SYS_FILE
 && eval $compile; then
 h_sysfile=true;
 echo "<sys/file.h> defines the O_* constants..." >&4
 if $run ./try; then
  echo "and you have the 3 argument form of open()." >&4
  val="$define"
 else
  echo "but not the 3 argument form of open().  Oh, well." >&4
  val="$undef"
 fi
elif $test `./findhdr fcntl.h` && \
  set try -DI_FCNTL && eval $compile; then
 h_fcntl=true;
 echo "<fcntl.h> defines the O_* constants..." >&4
 if $run ./try; then
  echo "and you have the 3 argument form of open()." >&4
```

```
  val="$define"
 else
  echo "but not the 3 argument form of open().  Oh, well." >&4
  val="$undef"
 fi
else
 val="$undef"
 echo "I can't find the O_* constant definitions!  You got problems." >&4
fi
set d_open3
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_open3.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethent.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_gethent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_gethent: Inlibc
?MAKE: -pick add $@ %<
?S:d_gethent:
?S: This variable conditionally defines HAS_GETHOSTENT if gethostent() is
?S: available to look up host names in some data base or another.
?S:.
?C:HAS_GETHOSTENT:
?C: This symbol, if defined, indicates that the gethostent() routine is
?C: available to look up host names in some
 data base or another.
?C:.
?H:#$d_gethent HAS_GETHOSTENT  /**/
?H:.
?LINT:set d_gethent
: see if gethostent exists
set gethostent d_gethent
```

```
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_gethent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Csym.U,v 3.0.1.4 1995/07/25 13:36:29 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Csym.U,v $
?RCS: Revision 3.0.1.4  1995/07/25  13:36:29  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS: patch56: added quotes for OS/2 support
?RCS:
?RCS: Revision 3.0.1.3  1995/05/12  12:00:33  ram
?RCS: patch54: fixed C test program to bypass gcc builtin type checks (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/10/31  09:34:13  ram
?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U
?RCS:
?RCS: Revision
 3.0.1.1  1993/08/25  14:00:05  ram
?RCS: patch6: added ldflags as a conditional dependency and to compile line
?RCS: patch6: a final double quote was missing in csym variable after eval
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:Csym mistrustnm extern_C: Options contains libc libs runnm test \
 +cc +optimize +ccflags +ldflags run rm_try _exe d_cplusplus
?MAKE: -pick add $@ %<
?LINT:define csym
?LINT:use libc
?LINT:extern mistrustnm
?LINT:set mistrustnm
?S:csym:
?S: This shell variable is used internally by Configure to check
?S: whether a given C symbol is defined or not. A typical use is:
?S:  set symbol result [-fva] [previous]
?S:  eval $csym
```

```
?S: That will set result to 'true' if the function [-f], variable [-v]
?S: or array [-a] is defined, 'false' otherwise. If a previous value is
?S: given and the -r flag was provided on the command line, that value
?S: is reused without questioning.
?S:.
?S:extern_C:
?S: ANSI C
 requires 'extern' where C++ requires 'extern "C"'. This
?S: variable can be used in Configure to do the right thing.
?S:.
?S:mistrustnm:
?S: This variable can be used to establish a fallthrough for the cases
?S: where nm fails to find a symbol.  If usenm is false or usenm is true
?S: and mistrustnm is false, this variable has no effect.  If usenm is true
?S: and mistrustnm is "compile", a test program will be compiled to try to
?S: find any symbol that can't be located via nm lookup.  If mistrustnm is
?S: "run", the test program will be run as well as being compiled.
?S:.
?V:csym
?T:tval tx tlook tf tdc
?F:!try
: is a C symbol defined?
csym='tlook=$1;
case "$3" in
-v) tf=libc.tmp; tdc="";;
-a) tf=libc.tmp; tdc="[]";;
*) tlook="^$1\$"; tf=libc.list; tdc="()";;
esac;
case "$d_cplusplus" in
   $define) extern_C="extern \"C\"" ;;
   *)  extern_C="extern" ;;
esac;
tx=yes;
case "$reuseval-$4" in
true-) ;;
true-*) tx=no; eval "tval=\$$4"; case "$tval" in "") tx=yes;; esac;;
esac;
case "$tx"
 in
yes)
?X:
?X: Put symbol inside a printf to fool optimizing compilers...
?X:
?X: We use 'short' instead of 'int' to try to circumvent overzealous
?X: optimizing compilers using built-in prototypes for commonly used
?X: routines to complain when seeing a different external declaration. For
?X: instance, gcc 2.6.3 fails if we use 'int' and we attempt a test against
?X: memcpy() on machines where sizeof(int) == sizeof(char *) (the usual return
```

```
?X: type), the compiler assuming it's a built-in declaration given that the
?X: returned size matches. At least with 'short' we are safe! -- RAM, for ADO
?X:
?X: Let's thank GNU cc for making our lives so easy! :-)
?X: (An alternative for the future would be to use our knowledge about gcc
?X: to force a -fno-builtin option in the compile test, in case the 'short'
?X: trick is obsoleted by future gcc releases). -- RAM
?X:
 tval=false;
 if $test "$runnm" = true; then
  if $contains $tlook $tf >/dev/null 2>&1; then
   tval=true;
  elif $test "$mistrustnm"
 = compile -o "$mistrustnm" = run; then
   echo "$extern_C void *$1$tdc; void *(*(p()))$tdc { return &$1; } int main(int argc, char **argv) { if(p() && p() !=
(void *)argv[0]) return(0); else return(1); }"> try.c;
   $cc -o try $optimize $ccflags $ldflags try.c >/dev/null 2>&1 $libs && tval=true;
   $test "$mistrustnm" = run -a -x try && { $run ./try$_exe >/dev/null 2>&1 || tval=false; };
   $rm_try;
  fi;
 else
  echo "$extern_C void *$1$tdc; void *(*(p()))$tdc { return &$1; } int main(int argc, char **argv) { if(p() && p() !=
(void *)argv[0]) return(0); else return(1); }"> try.c;
  $cc -o try $optimize $ccflags $ldflags try.c $libs >/dev/null 2>&1 && tval=true;
  $rm_try;
 fi;
 ;;
*)
 case "$tval" in
 $define) tval=true;;
 *) tval=false;;
 esac;
 ;;
esac;
eval "$2=$tval"'
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/Csym.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: ipc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: ipc.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:53  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:ipc serve_shm serve_msg serve_inet_udp serve_inet_tcp serve_unix_udp \
 serve_unix_tcp: test Myread Oldconfig d_socket d_msg d_shm d_sem
?MAKE: -pick add $@ %<
?LINT:use d_msg d_sem
?S:ipc:
?S: This variable holds the type of IPC service we'll be using.  Values
?S: include "ip", "shm", "msg", "cms" and "os9".  We don't worry about
?S: cms or os9
 here, because Configure doesn't run in those places--HMS.
?S:.
?S:serve_shm:
?S: This variable controls the definition of SERVE_SHM, which tells the
?S: C program to use USG shared memory for IPC.
?S:.
?S:serve_msg:
?S: This variable controls the definition of SERVE_MSG, which tells the
?S: C program to use USG message queues for IPC.
?S:.
?S:serve_inet_udp:
?S: This variable controls the definition of SERVE_INET_UDP, which tells
?S: the C program to enable InterNet-domain UDP support for IPC.
?S:.
?S:serve_inet_tcp:
?S: This variable controls the definition of SERVE_INET_TCP, which tells
?S: the C program to enable InterNet-domain TCP support for IPC.
?S:.
?S:serve_unix_udp:
?S: This variable controls the definition of SERVE_UNIX_UDP, which tells
?S: the C program to enable Unix-domain UDP support for IPC.
?S:.
?S:serve_unix_tcp:
?S: This variable controls the definition of SERVE_UNIX_TCP, which tells
?S: the C program to enable Unix-domain TCP support for IPC.
?S:.
?C:SERVE_SHM:
?C: If
 defined, tells the C program to use USG shared memory for IPC.
?C:.
?C:SERVE_MSG:
?C: If defined, tells the C program to use USG message queues for IPC.
?C:.
```

```
?C:SERVE_INET_UDP:
?C: If defined, tells the C program to enable InterNet-domain UDP
?C: support for IPC.
?C:.
?C:SERVE_INET_TCP:
?C: If defined, tells the C program to enable InterNet-domain TCP
?C: support for IPC.
?C:.
?C:SERVE_UNIX_UDP:
?C: If defined, tells the C program to enable Unix-domain UDP
?C: support for IPC.
?C:.
?C:SERVE_UNIX_TCP:
?C: If defined, tells the C program to enable Unix-domain TCP
?C: support for IPC.
?C:.
?H:#$serve_shm SERVE_SHM /**/
?H:#$serve_msg SERVE_MSG /**/
?H:#$serve_inet_udp SERVE_INET_UDP /**/
?H:#$serve_inet_tcp SERVE_INET_TCP /**/
?H:#$serve_unix_udp SERVE_UNIX_UDP /**/
?H:#$serve_unix_tcp SERVE_UNIX_TCP /**/
?H:.
?X: FIXME -- RAM
?INIT:serve_shm=''
?INIT:serve_msg="$undef"
?INIT:serve_inet_udp=''
?INIT:serve_inet_tcp=''
?INIT:serve_unix_udp=''
?INIT:serve_unix_tcp=''
: get IPC mechanism
echo
 " "
ipc=''
while $test -z "$ipc"
do
 if $test "$ipc" != "shm" -a "$d_socket" = "$define"; then
  ipc=''
  if $test "$serve_inet_udp" = "$undef"; then
   dflt=n
  else
   dflt=y
  fi
  rp='Provide InterNet-domain UDP service?'
  . ./myread
  dflt=''
  case "$ans" in
  n*) serve_inet_udp="$undef";;
```

```
*)
 serve_inet_udp="$define"
 ipc='ip'
 ;;
esac

if $test "$serve_inet_tcp" = "$define"; then
 dflt=y
else
 dflt=n
fi
rp='Provide InterNet-domain TCP service?'
. ./myread
dflt=''
case "$ans" in
n*) serve_inet_tcp="$undef";;
*)
 serve_inet_tcp="$define"
 ipc='ip'
 ;;
esac

if $test "$serve_unix_udp" = "$define"; then
 dflt=y
else
 dflt=n
fi
rp='Provide Unix-domain UDP service?'
. ./myread
dflt=''
case "$ans" in
n*) serve_unix_udp="$undef";;
*)
 serve_unix_udp="$define"
 ipc='ip'
 ;;
esac

if $test "$serve_unix_tcp" = "$define"; then
 dflt=y
else
 dflt=n
fi
rp='Provide Unix-domain TCP service?'
. ./myread
dflt=''
case
```

```
 "$ans" in
  n*) serve_unix_tcp="$undef";;
  *)
   serve_unix_tcp="$define"
   ipc='ip'
   ;;
  esac
 else
  serve_inet_udp="$undef"
  serve_inet_tcp="$undef"
  serve_unix_udp="$undef"
  serve_unix_tcp="$undef"
 fi
 if $test "$ipc" != "ip" -a "$d_shm" = "$define"; then
  echo "Providing USG shared memory IPC support." >&4
  serve_shm="$define"
  ipc='shm'
 else
  serve_shm="$undef"
 fi
 if $test -z "$ipc"; then
  echo "You must select an IPC mechanism." >&4
 fi
done
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/ipc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorhtml1dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorhtml1dir.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorhtml1dir vendorhtml1direxp installvendorhtml1dir: html1dir Getfile \
 Setprefixvar Oldconfig Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
```

```
?S:vendorhtml1dir:
?S: This variable contains the name of the directory for html
?S: pages.  It may have a ~ on the front.
?S: The standard distribution will put nothing in this
 directory.
?S: Vendors who distribute perl may wish to place their own
?S: html pages in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorhtml1direxp:
?S: This variable is the ~name expanded version of vendorhtml1dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorhtml1dir=''
?S:installvendorhtml1dir:
?S: This variable is really the same as vendorhtml1direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorhtml1dir
: Set the vendorhtml1dir variables
case "$vendorprefix" in
'') vendorhtml1dir=''
 vendorhtml1direxp=''
 ;;
*) : determine where vendor-supplied html pages go.
 : There is no standard location, so try to copy the previously-selected
 : directory structure for the core html pages.
 : XXX Better default suggestions would be welcome.
 case "$vendorhtml1dir"
 in
 '') dflt=`echo "$html1dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
 *) dflt=$vendorhtml1dir ;;
 esac
 case "$dflt" in
 '|' ') dflt=none ;;
 esac
 fn=dn+~
 rp='Pathname for the vendor-supplied html pages?'
 . ./getfile
 vendorhtml1dir="$ans"
 vendorhtml1direxp="$ansexp"
 ;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorhtml1dir" = "X" && vendorhtml1dir=' '
```

```
prefixvar=vendorhtml1dir
. ./installprefix
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/vendorhtml1dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2014-2014, Karl Williamson & H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_wcscmp: Compile cat rm_try run Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_wcscmp:
?S: This variable conditionally defines the HAS_WCSCMP symbol if the
?S: wcscmp() routine is available and can be used to compare wide
?S: character strings.
?S:.
?C:HAS_WCSCMP:
?C: This symbol, if defined, indicates that the wcscmp routine is
?C: available to compare two wide character strings.
?C:.
?H:#$d_wcscmp HAS_WCSCMP /**/
?H:.
?F:!try
?LINT: set d_wcscmp
: look for wcscmp
echo " "
$cat >try.c <<'EOCP'
#include <stdio.h>
#include
 <wchar.h>
int main ()
{
   wchar_t *s = L" ";
   return (wcscmp (s, s) ? 1 : 0);
   }
EOCP
set try
?X: if $cc $ccflags $ldflags -o try try.c $libs >/dev/null 2>&1 ; then
val="$undef"
if eval $compile; then
   `$run ./try`
```

```
   case "$?" in
 0)  echo "A working wcscmp() found." >&4
     val="$define" ;;
 *)  echo "wcscmp() found, but it doesn't work" >&4
     ;;
 esac
else
   echo "wcscmp() NOT found." >&4
   fi
set d_wcscmp
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_wcscmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X: This unit generates a $hasfield string that is used internally
?X: by Configure to check if this system has a field for a
?X: particular struct (of if this system has a particular struct!)
?X:
?X: To use it, say something like:
?X:  set d_statblocks stat st_blocks i_sysstat sys/stat.h
?X:  eval $hasfield
?X: Or, for more complicated sets of headers, do something like
?X: hdrs="$define sys/foo.h
?X:  $i_sysbar sys/bar.h
?X:  $i_syszot sys/zot.h
?X:  $i_zappa zappa.h"
?X: set d_statblocks stat st_blocks $hdrs
?X: eval $hasfield
?X:
?MAKE:Hasfield: Setvar rm_try test Compile
?MAKE: -pick add $@ %<
?T:varname struct field
?V:hasfield
: Define hasfield macro for Configure internal use
hasfield='varname=$1;
 struct=$2; field=$3; shift; shift; shift;
while $test $# -ge 2; do
```

```
 case "$1" in
 $define) echo "#include <$2>";;
 esac ;
   shift 2;
done > try.c;
echo "int main () { struct $struct foo; char* bar; bar = (char*)foo.$field; }" >> try.c;
set try;
if eval $compile; then
 val="$define";
else
 val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try'
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/Hasfield.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_usendir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_usendir.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:47:34  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: likewise for .o replaced by $_o
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_usendir i_ndir ndirlib: test Setvar Findhdr d_readdir _a
?MAKE: -pick add $@ %<
?S:d_usendir:
?S: This variable conditionally defines the EMULATE_NDIR symbol, which
?S: indicates
 to the C program that it should compile the ndir.c code
?S: provided with the package.
?S:.
?S:i_ndir (d_libndir):
```

```
?S: This variable conditionally defines the I_NDIR symbol, which
?S: indicates to the C program that it should include the system's
?S: version of ndir.h, rather than the one with this package.
?S:.
?S:ndirlib:
?S: The name of the library to include at linking stage to resolve ndir
?S: symbols. It is up to the makefile to use this value.
?S:.
?C:EMULATE_NDIR (USENDIR):
?C: This symbol, if defined, indicates that the program should compile
?C: the ndir.c code provided with the package.
?C:.
?C:I_NDIR (LIBNDIR):
?C: This symbol, if defined, indicates that the program should include the
?C: system's version of ndir.h, rather than the one with this package.
?C:.
?H:#$d_usendir EMULATE_NDIR  /**/
?H:#$i_ndir I_NDIR  /**/
?H:.
?T:val2
?LINT: set d_usendir i_ndir
: see if there are directory access routines out there
echo " "
if $test `./findhdr ndir.h` && \
 ( $test -r /usr/lib/libndir$_a
 || $test -r /usr/local/lib/libndir$_a ); then
 echo "Ndir library found." >&4
 if $test -r /usr/lib/libndir$_a; then
  ndirlib='-lndir'
 else
  ndirlib="/usr/local/lib/libndir$_a"
 fi
 val2="$define"
 val="$undef"
else
 ndirlib=''
 val2="$undef"
 case "$d_readdir" in
 "$define")
 echo "No ndir library found, but you have readdir() so we'll use that." >&4
  val="$undef";
  ;;
 *)
  echo "No ndir library found." >&4
  val="$define"
  ;;
 esac
fi
```

```
set d_usendir
eval $setvar
val="$val2"
set i_ndir
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_usendir.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: nis.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:17:38  ram
?RCS: patch61: ensure suitable defaults for hostcat and friends
?RCS:
?RCS: Revision 3.0.1.2  1995/03/21  08:48:34  ram
?RCS: patch52: continued fix for NeXT NIS/NetInfo handling
?RCS:
?RCS: Revision 3.0.1.1  1995/02/15  14:16:23  ram
?RCS: patch51: now correctly handles NeXT using NIS rather than NetInfo
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:passcat groupcat hostcat:
 Myread Oldconfig test contains
?MAKE: -pick add $@ %<
?S:passcat:
?S: This variable contains a command that produces the text of the
?S: /etc/passwd file.  This is normally "cat /etc/passwd", but can be
?S: "ypcat passwd" when NIS is used.
?S:.
?S:groupcat:
?S: This variable contains a command that produces the text of the
?S: /etc/group file.  This is normally "cat /etc/group", but can be
?S: "ypcat group" when NIS is used.
?S:.
?S:hostcat:
```

```
?S: This variable contains a command that produces the text of the
?S: /etc/hosts file.  This is normally "cat /etc/hosts", but can be
?S: "ypcat hosts" when NIS is used.
?S:.
: see if we have to deal with yellow pages, now NIS.
?X: NeXT gives us some fun here, as always, by having both NIS (former YP)
?X: and NetInfo. But since it has both, it's ok to put the test inside the if.
?X: Contributed by Thomas Neumann <tom@smart.bo.open.de>.
if $test -d /usr/etc/yp || $test -d /etc/yp || $test -d /usr/lib/yp; then
 if $test -f /usr/etc/nibindd; then
  echo
 " "
  echo "I'm fairly confident you're on a NeXT."
@if passcat || groupcat
  echo " "
  rp='Do you get the passwd file via NetInfo?'
  dflt=y
  case "$passcat" in
  nidump*) ;;
  ") ;;
  *) dflt=n;;
  esac
  . ./myread
  case "$ans" in
  y*) passcat='nidump passwd .'
@if groupcat
   echo "(Assuming /etc/group is also distributed.)"
   groupcat='nidump group .'
@end
   ;;
  *) echo "You told me, so don't blame me."
   case "$passcat" in
   nidump*) passcat="
@if groupcat
     groupcat=";;
@end
   esac
@if groupcat
   echo "(Assuming /etc/group is handled the same way.)"
@end
   ;;
  esac
@end
@if hostcat
  echo " "
  rp='Do you get the hosts file via NetInfo?'
  dflt=y
  case "$hostcat" in
```

```
  nidump*) ;;
  ") ;;
  *) dflt=n;;
  esac
  . ./myread
  case "$ans" in
  y*) hostcat='nidump hosts .';;
  *) case "$hostcat" in
   nidump*) hostcat=";;
   esac
   ;;
  esac
@end
 fi
@if passcat || groupcat
 case "$passcat" in
 nidump*) ;;
 *)
  case "$passcat" in
  *ypcat*) dflt=y;;
  ")
 if $contains '^\+' /etc/passwd >/dev/null 2>&1; then
    dflt=y
   else
    dflt=n
   fi;;
  *) dflt=n;;
  esac
  echo " "
  rp='Are you getting the passwd file via yellow pages?'
  . ./myread
  case "$ans" in
  y*) passcat='ypcat passwd'
@if groupcat
   echo "(Assuming /etc/group is also distributed.)"
   groupcat='ypcat group'
@end
   ;;
  *) passcat='cat /etc/passwd'
@if groupcat
   echo "(Assuming /etc/group is also local.)"
   groupcat='cat /etc/group'
@end
   ;;
  esac
  ;;
 esac
@end
```

```
@if hostcat
 case "$hostcat" in
 nidump*) ;;
 *)
  case "$hostcat" in
  *ypcat*) dflt=y;;
  ") if $contains '^\+' /etc/passwd >/dev/null 2>&1; then
    dflt=y
   else
    dflt=n
   fi;;
  *) dflt=n;;
  esac
  echo " "
  rp='Are you getting the hosts file via yellow pages?'
  . ./myread
  case "$ans" in
  y*) hostcat='ypcat hosts';;
  *) hostcat='cat /etc/hosts';;
  esac
  ;;
 esac
@end
fi
?X: Ensure suitable default -- Manoj Srivastava
case "$hostcat" in
") hostcat=':'
 $test -f /etc/hosts && hostcat='cat
 /etc/hosts';;
esac
case "$groupcat" in
") groupcat=':'
 $test -f /etc/group && groupcat='cat /etc/group';;
esac
case "$passcat" in
") passcat=':'
 $test -f /etc/passwd && passcat='cat /etc/passwd';;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/nis.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_vfork.U,v $
?RCS: Revision 3.0.1.6  1994/08/29  16:18:21  ram
?RCS: patch32: set default to 'y' the first time
?RCS:
?RCS: Revision 3.0.1.5  1994/06/20  06:59:14  ram
?RCS: patch30: usevfork was not always properly set
?RCS:
?RCS: Revision 3.0.1.4  1994/05/13  15:20:56  ram
?RCS: patch27: modified to avoid spurious Whoa warnings (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/05/06  14:59:09  ram
?RCS: patch23: now explicitly ask whether vfork() should be used (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1993/10/16
  13:49:39  ram
?RCS: patch12: added magic for vfork()
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:06:57  ram
?RCS: patch10: removed automatic remapping of vfork on fork (WAD)
?RCS: patch10: added compatibility code for older config.sh (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_vfork usevfork: Inlibc Myread Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_vfork:
?S: This variable conditionally defines the HAS_VFORK symbol, which
?S: indicates the vfork() routine is available.
?S:.
?S:usevfork:
?S: This variable is set to true when the user accepts to use vfork.
?S: It is set to false when no vfork is available or when the user
?S: explicitly requests not to use vfork.
?S:.
?C:HAS_VFORK (VFORK):
?C: This symbol, if defined, indicates that vfork() exists.
?C:.
?H:#$d_vfork HAS_VFORK /**/
?H:.
?M:vfork: HAS_VFORK
?M:#ifndef HAS_VFORK
```

```
?M:#define vfork fork
?M:#endif
?M:.
?LINT:set d_vfork
: see if there is a vfork
val=''
set
 vfork val
eval $inlibc

: Ok, but do we want to use it. vfork is reportedly unreliable in
: perl on Solaris 2.x, and probably elsewhere.
case "$val" in
$define)
 echo " "
 case "$usevfork" in
 false) dflt='n';;
 *) dflt='y';;
 esac
 rp="Some systems have problems with vfork().  Do you want to use it?"
 . ./myread
 case "$ans" in
 y|Y) ;;
 *)
  echo "Ok, we won't use vfork()."
  val="$undef"
  ;;
 esac
 ;;
esac
?X:
?X: Only set it when final value is known to avoid spurious Whoas
?X: Then set usevfork accordingly to the current value, for next run
?X:
set d_vfork
eval $setvar
case "$d_vfork" in
$define) usevfork='true';;
*) usevfork='false';;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_vfork.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
```

```
?RCS: Copyright (c) 2016 H.Merijn Brand & Todd Rinaldo
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:default_inc_excludes_dot: Myread cat
?MAKE: -pick add $@ %<
?S:default_inc_excludes_dot:
?S: When defined, remove the legacy '.' from @INC
?S:.
?C:DEFAULT_INC_EXCLUDES_DOT:
?C: This symbol, if defined, removes the legacy default behavior of
?C: including '.' at the end of @INC.
?C:.
?H:#$default_inc_excludes_dot DEFAULT_INC_EXCLUDES_DOT /**/
?H:.
: Include . in @INC
$cat <<EOM

Historically Perl has provided a final fallback of the current working
directory '.' when searching for a library. This, however, can lead to
problems when a Perl program which loads optional modules is called from
a shared directory. This can lead to executing unexpected code.

EOM

# When changing to exclude by
 default:
case "$default_inc_excludes_dot" in
   $undef|false|[nN]*) dflt="n" ;;
   *)                  dflt="y" ;;
esac
# To turn exclude off by default:
#case "$default_inc_excludes_dot" in
#    $define|true|[yY]*) dflt="y" ;;
#    *)                  dflt="n" ;;
#esac

rp='Exclude '.' from @INC by default? '
. ./myread
case "$ans" in
   [nN]|undef) default_inc_excludes_dot="$undef"  ;;
   *)          default_inc_excludes_dot="$define" ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/defaultincdot.U

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```
?RCS: $Id: Extractall.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extractall.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:00:43  ram
?RCS: patch61: created
?RCS:
?X:
?X: If extraction has been requested, load the configuration file, perform
?X: the extraction and exit.
?X:
?X: This unit was originally a part of Options.U. It had to be removed from
?X: it to prevent a dependency cycle: Extract -> src -> Options -> Extract
?X: The Begin.U unit now requires us before beginning to do anything
?X: interesting, to ensure
 proper semantics. -- RAM, 15/03/96
?X:
?MAKE:Extractall: Extract Options
?MAKE: -pick wipe $@ %<
: extract files and exit if asked to do so
case "$extractsh" in
true)
?X: Undo the forced silent=true when -S was supplied, by probing realsilent
?X: which was set iff -s was also given. See Options.U for details.
 case "$realsilent" in
 true) ;;
 *) exec 1>&4;;
 esac
 case "$config_sh" in
 '') config_sh='config.sh';;
 esac
 echo " "
 echo "Fetching answers from $config_sh..."
 cd ..
 . $config_sh
?X: extract has to be run from the top directory, not within UU.
 . UU/optdef.sh
 echo " "
?X: extract has to be run from the top directory, not within UU.
```

```
 . UU/extract
 rm -rf UU
 echo "Extraction done."
 exit 0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Extractall.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fchmod.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_fchmod.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:59  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_fchmod: Inlibc
?MAKE: -pick add $@ %<
?S:d_fchmod:
?S: This variable conditionally defines the HAS_FCHMOD symbol, which
?S: indicates to the C program that the fchmod() routine is available
?S: to change mode of opened files.
?S:.
?C:HAS_FCHMOD (FCHMOD):
?C: This symbol, if defined, indicates that the fchmod routine is available
?C: to
 change mode of opened files.  If unavailable, use chmod().
?C:.
?H:#$d_fchmod HAS_FCHMOD  /**/
?H:.
?LINT:set d_fchmod
: see if fchmod exists
set fchmod d_fchmod
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_fchmod.U

No license file was found, but licenses were detected in source scan.

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, 2012 Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:byteorder: cat Myread Oldconfig Loc +cc +ccflags rm_try
?MAKE: -pick add $@ %<
?S:byteorder:
?S: This variable holds the byte order. In the following, larger digits
?S: indicate more significance.  The variable byteorder is either 4321
?S: on a big-endian machine, or 1234 on a little-endian, or 87654321
?S: on a Cray ... or 3412 with weird order !
?S:.
?C:BYTEORDER:
?C: This symbol hold the hexadecimal constant defined in byteorder,
?C: i.e. 0x1234 or 0x4321, etc...
?C:.
?H:#define BYTEORDER 0x$byteorder /*
 large digits for MSB */
?H:.
?T:xxx_prompt
?F:!try
: check for ordering of bytes in a long
case "$byteorder" in
")
 $cat <<'EOM'

In the following, larger digits indicate more significance.  A big-endian
machine like a Pyramid or a Motorola 680?0 chip will come out to 4321. A
little-endian machine like a Vax or an Intel 80?86 chip would be 1234. Other
machines may have weird orders like 3412.  A Cray will report 87654321. If
the test program works the default is probably right.
I'm now running the test program...
EOM
 $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
 int i;
 union {
  unsigned long l;
  char c[sizeof(long)];
```

```
 } u;

 if (sizeof(long) > 4)
  u.l = (0x08070605L << 32) | 0x04030201L;
 else
  u.l = 0x04030201L;
 for (i = 0; i < sizeof(long); i++)
  printf("%c", u.c[i]+'0');
 printf("\n");
 exit(0);
}
EOCP
 xxx_prompt=y
 if $cc $ccflags -o try try.c >/dev/null 2>&1 && ./try > /dev/null; then
  dflt=`./try`
  case "$dflt" in
  [1-4][1-4][1-4][1-4]|12345678|87654321)
   echo
 "(The test program ran ok.)"
   echo "byteorder=$dflt"
   xxx_prompt=n
   ;;
  ????|????????) echo "(The test program ran ok.)" ;;
  *) echo "(The test program didn't run right for some reason.)" ;;
  esac
 else
  dflt='4321'
  cat <<'EOM'
(I can't seem to compile the test program.  Guessing big-endian...)
EOM
 fi
 case "$xxx_prompt" in
 y)
  rp="What is the order of bytes in a long?"
  . ./myread
  byteorder="$ans"
  ;;
 *) byteorder=$dflt
  ;;
 esac
 ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/byteorder.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorarch.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorarch.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:d_vendorarch vendorarch vendorarchexp installvendorarch: sed Getfile \
 Setprefixvar Oldconfig Prefixit archname vendorlib vendorprefix test
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorarch:
?S: This variable contains the value of the PERL_VENDORARCH symbol.
?S: It may have a ~ on the front.
?S: The standard distribution will put nothing in this directory.
?S: Vendors
 who distribute perl may wish to place their own
?S: architecture-dependent modules and extensions in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorarchexp:
?S: This variable is the ~name expanded version of vendorarch, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorarch="
?S:installvendorarch:
?S: This variable is really the same as vendorarchexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?S:d_vendorarch:
?S: This variable conditionally defined PERL_VENDORARCH.
?S:.
?C:PERL_VENDORARCH:
?C: If defined, this symbol contains the name of a private library.
?C: The library is private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.
?C: It may have a ~ on the front.
```

```
?C: The standard distribution will put nothing in this
 directory.
?C: Vendors who distribute perl may wish to place their own
?C: architecture-dependent modules and extensions in this directory with
?C:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?C: or equivalent.  See INSTALL for details.
?C:.
?C:PERL_VENDORARCH_EXP:
?C: This symbol contains the ~name expanded version of PERL_VENDORARCH, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#$d_vendorarch PERL_VENDORARCH "$vendorarch"  /**/
?H:#$d_vendorarch PERL_VENDORARCH_EXP "$vendorarchexp"  /**/
?H:.
?LINT:change prefixvar
?LINT:set installvendorarch
: Set the vendorarch variables
case "$vendorprefix" in
") d_vendorarch="$undef"
 vendorarch="
 vendorarchexp="
 ;;
*) d_vendorarch="$define"
 : determine where vendor-supplied architecture-dependent libraries go.
 : vendorlib  default is /usr/local/lib/perl5/vendor_perl/$version
 : vendorarch default is /usr/local/lib/perl5/vendor_perl/$version/$archname
 : vendorlib may have an optional trailing
 /share.
 case "$vendorarch" in
 ") dflt=`echo $vendorlib | $sed 's,/share$,,'`
  dflt="$dflt/$archname"
  ;;
 *) dflt="$vendorarch" ;;
 esac
 fn=d~+
 rp='Pathname for vendor-supplied architecture-dependent files?'
 . ./getfile
 vendorarch="$ans"
 vendorarchexp="$ansexp"
 ;;
esac
prefixvar=vendorarch
. ./installprefix
if $test X"$vendorarch" = X"$vendorlib"; then
 d_vendorarch="$undef"
else
 d_vendorarch="$define"
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/vendorarch.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_tminsys.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_tminsys.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_tminsys: contains Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_tminsys:
?S: This variable conditionally defines TM_IN_SYS if this system
?S: declares "struct tm" in <sys/time.h> rather than <time.h>.
?S:.
?C:TM_IN_SYS (TMINSYS):
?C: This symbol is defined if this system declares "struct tm" in
?C: <sys/time.h> rather than <time.h>.
  We can't just say
?C: -I/usr/include/sys because some systems have both time files, and
?C: the -I trick gets the wrong one.
?C:.
?H:#$d_tminsys TM_IN_SYS  /**/
?H:.
?LINT:set d_tminsys
: see if struct tm is defined in sys/time.h
echo " "
if $contains 'struct tm' `./findhdr time.h` >/dev/null 2>&1 ; then
 echo "You have struct tm defined in <time.h> rather than <sys/time.h>." >&4
 val="$undef"
else
 echo "You have struct tm defined in <sys/time.h> rather than <time.h>." >&4
 val="$define"
fi
set d_tminsys
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_tminsys.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in order
?X: to make quick check on whether the current C compiler is working.
?X:
?MAKE:Checkcc ccname ccversion: Myread Warn startsh cat contains test
?MAKE: -pick add $@ %<
?S:ccname:
?S: This can set either by hints files or by Configure.  If using
?S: gcc, this is gcc, and if not, usually equal to cc, unimpressive, no?
?S: Some platforms, however, make good use of this by storing the
?S: flavor
 of the C compiler being used here.  For example if using
?S: the Sun WorkShop suite, ccname will be 'workshop'.
?S:.
?S:ccversion:
?S: This can set either by hints files or by Configure.  If using
?S: a (non-gcc) vendor cc, this variable may contain a version for
?S: the compiler.
?S:.
?F:./checkcc ./trygcc !checktmp
?V:despair
?T:trygcc
?LINT:extern cc rm ccflags ldflags
?LINT:change cc ccflags
?LINT:usefile checktmp
?INIT:ccname=''
?INIT:ccversion=''
: generate the trygcc script for later perusal
cat <<EOS >trygcc
$startsh
EOS
```

```
cat <<'EOSC' >>trygcc
case "$cc" in
") ;;
*)  $rm -f try try.*
   $cat >try.c <<EOM
int main(int argc, char *argv[]) {
 (void) argc;
 (void) argv;
 return 0;
}
EOM
   if $cc -o try $ccflags $ldflags try.c; then
      :
   else
       echo "Uh-oh, the C compiler '$cc' doesn't seem to be working." >&4
       despair=yes
       trygcc=yes
       case "$cc" in
       *gcc*) trygcc=no ;;
       esac
       case "`$cc -v -c try.c 2>&1`" in

      *gcc*) trygcc=no ;;
       esac
       if $test X"$trygcc" = Xyes; then
           if gcc -o try -c try.c; then
               echo " "
               echo "You seem to have a working gcc, though." >&4
               rp="Would you like to use it?"
               dflt=y
               if $test -f myread; then
                   . ./myread
               else
                   if $test -f UU/myread; then
                       . ./UU/myread
                   else
                       echo "Cannot find myread, sorry.  Aborting." >&2
                       exit 1
                   fi
               fi
               case "$ans" in
               [yY]*) cc=gcc; ccname=gcc; ccflags=''; despair=no;
?X: Look whether we have 'call-back units' generated by hints that would
?X: seemingly affect the compiling environment.
                       $cat *.cbu >checktmp 2>/dev/null
                       if $contains ccflags checktmp >/dev/null; then
```

```
        ./warn <<EOM
Any previous setting of the C compiler flags has been lost.
It may be necessary to pass -Dcc=gcc to Configure right away.
EOM
                    fi;;
                esac
            fi
        fi
    fi
    $rm -f try try.*
    ;;
esac
EOSC

: generate the checkcc script for later perusal
cat <<EOS >checkcc
$startsh
EOS
cat <<'EOSC' >>checkcc
case "$cc" in
") ;;
*)  $rm -f try try.*
    $cat >try.c <<EOM
int main(int argc, char *argv[]) {
 (void) argc;
 (void) argv;
 return 0;
}
EOM
    if $cc -o try $ccflags $ldflags try.c; then
        :
    else
        if $test X"$despair" = Xyes; then
            echo "Uh-oh, the C compiler '$cc' doesn't seem to be working." >&4
        fi
        $cat >&4 <<EOM
You need to find a working C compiler.
Either (purchase and) install the C compiler supplied by your OS vendor,
or for a free C compiler try http://gcc.gnu.org/
I cannot continue any further, aborting.
EOM
        exit 1
    fi

 $rm -f try try.*
    ;;
esac
EOSC
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Checkcc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: ssizetype.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:24:21  ram
?RCS: patch61: integrated perl5 concerns for mis-configured sfio
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:30:28  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:33:06  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:ssizetype: Myread Typedef
 sizetype cat rm \
 +cc +optimize +ccflags +ldflags +libs _o
?MAKE: -pick add $@ %<
?S:ssizetype:
?S: This variable defines ssizetype to be something like ssize_t,
?S: long or int.  It is used by functions that return a count
?S: of bytes or an error condition.  It must be a signed type.
?S: We will pick a type such that sizeof(SSize_t) == sizeof(Size_t).
?S:.
?C:SSize_t:
?C: This symbol holds the type used by functions that return
?C: a count of bytes or an error condition.  It must be a signed type.
?C: It is usually ssize_t, but may be long or int, etc.
?C: It may be necessary to include <sys/types.h> or <unistd.h>
?C: to get any typedef'ed information.
?C: We will pick a type such that sizeof(SSize_t) == sizeof(Size_t).
?C:.
?H:#define SSize_t $ssizetype  /* signed count of bytes */
```

```
?H:.
?F:!ssize.out !ssize
: see what type is used for signed size_t
set ssize_t ssizetype int stdio.h sys/types.h
eval $typedef
dflt="$ssizetype"
?X: Now check out whether sizeof(SSize_t) == sizeof(Size_t)
$cat
 > ssize.c <<EOM
#include <stdio.h>
#include <sys/types.h>
#define Size_t $sizetype
#define SSize_t $dflt
int main()
{
 if (sizeof(Size_t) == sizeof(SSize_t))
  printf("$dflt\n");
 else if (sizeof(Size_t) == sizeof(int))
  printf("int\n");
 else
  printf("long\n");
 fflush(stdout);
 exit(0);
}
EOM
echo " "
?X: If $libs contains -lsfio, and sfio is mis-configured, then it
?X: sometimes (apparently) runs and exits with a 0 status, but with no
?X: output!.  Thus we check with test -s whether we actually got any
?X: output.  I think it has to do with sfio's use of _exit vs. exit,
?X: but I don't know for sure.  --Andy Dougherty  1/27/97.
if $cc $optimize $ccflags $ldflags -o ssize ssize.c $libs > /dev/null 2>&1  &&
  ./ssize > ssize.out 2>/dev/null && test -s ssize.out ; then
 ssizetype=`$cat ssize.out`
 echo "I'll be using $ssizetype for functions returning a byte count." >&4
else
 $cat >&4 <<EOM
Help! I can't compile and run the ssize_t test program: please enlighten me!
(This
 is probably a misconfiguration in your system or libraries, and
you really ought to fix it.  Still, I'll try anyway.)

I need a type that is the same size as $sizetype, but is guaranteed to
be signed.  Common values are ssize_t, int and long.

EOM
 rp="What signed type is the same size as $sizetype?"
 . ./myread
```

```
 ssizetype="$ans"
fi
$rm -f ssize ssize$_o ssize.*
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/ssizetype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: bitpbyte.U,v 3.0.1.1 1994/10/29 16:02:54 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: bitpbyte.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:02:54  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:bitpbyte: cat rm Myread Compile run
?MAKE: -pick add $@ %<
?S:bitpbyte:
?S: This variable contains the value of the BITS_PER_BYTE symbol, which
?S: indicates to the C program how many bits there are in a byte.
?S:.
?C:BITS_PER_BYTE:
?C: This
 symbol contains the number of bits in a byte, so that the C
?C: preprocessor can make decisions based on it.
?C:.
?H:#define BITS_PER_BYTE $bitpbyte  /**/
?H:.
?F:!try
: check for length of byte
echo " "
case "$bitpbyte" in
")
 echo "Checking to see how many bits there are in a byte..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
?X: Standard C requires a macro CHAR_BIT in <limits.h>
```

```
#ifdef __STDC__
#include <limits.h>
#ifndef CHAR_BIT
#define CHAR_BIT 8
#endif
#ifndef BITSPERBYTE
#define BITSPERBYTE CHAR_BIT
#endif
#else
?X: On non standard C, try with <values.h>
#include <values.h>
#ifndef BITSPERBYTE
#define BITSPERBYTE 8
#endif
#endif
int main()
{
 printf("%d\n", BITSPERBYTE);
}
EOCP
 set try
 if eval $compile_ok; then
  dflt=`$run ./try`
 else
  dflt='8'
  echo "(I can't seem to compile the test program.  Guessing...)"
 fi
 ;;
*)
 dflt="$bitpbyte"
 ;;
esac
rp="What is the length of a byte (in bits)?"
. ./myread
bitpbyte="$ans"
$rm -f try.c try
```

Found in path(s):
*
 /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/bitpbyte.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_float.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_float.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:21:57  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:i_float: Inhdr
?MAKE: -pick add $@ %<
?S:i_float:
?S: This variable conditionally defines the I_FLOAT symbol, and indicates
?S: whether a C program may include <float.h> to get symbols like DBL_MAX
?S: or DBL_MIN, i.e. machine dependent floating point values.
?S:.
?C:I_FLOAT:
?C: This
 symbol, if defined, indicates to the C program that it should
?C: include <float.h> to get definition of symbols like DBL_MAX or
?C: DBL_MIN, i.e. machine dependent floating point values.
?C:.
?H:#$i_float I_FLOAT  /**/
?H:.
?LINT:set i_float
: see if this is a float.h system
set float.h i_float
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_float.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Filexp.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  15:52:53  ram
```

```
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: added HOME to the ?T: line since metalint now checks ${HOME}
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:03:00  ram
?RCS: patch23: made sure error status from csh is propagated (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:53  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which will expand filenames beginning
?X:
 with tildes.  The script is deleted at the end of Configure.
?X:
?MAKE:Filexp: startsh sed test expr eunicefix
?MAKE: -pick add $@ %<
?F:./filexp
?T:HOME LOGDIR dir me name failed
: set up shell script to do ~ expansion
cat >filexp <<EOSS
$startsh
: expand filename
?X:
?X: The case entries below escape the ~ as some shells have shown expansion
?X: of the ~ during here-doc processing.
?X:
case "\$1" in
\~/*|\~)
 echo \$1 | $sed "s|~|\${HOME-\$LOGDIR}|"
 ;;
\~*)
 if $test -f /bin/csh; then
  /bin/csh -f -c "glob \$1"
  failed=\$?
  echo ""
  exit \$failed
 else
  name=\`$expr x\$1 : '..\([^/]*\)'\`
  dir=\`$sed -n -e "/^\${name}:/{s/^[^:]*:[^:]*:[^:]*:[^:]*:[^:]*:\([^:]*\).*'"\$'"/\1/" -e p -e q -e '}' </etc/passwd\`
  if $test ! -d "\$dir"; then
   me=\`basename \$0\`
   echo "\$me: can't locate home directory for: \$name" >&2
   exit 1
  fi
  case "\$1" in
  */*)
   echo \$dir/\`$expr x\$1 : '..[^/]*/\(.*\)'\`
   ;;
```

```
  *)
   echo \$dir
   ;;
  esac
 fi
 ;;
*)
 echo \$1
 ;;
esac
EOSS
chmod
 +x filexp
$eunicefix filexp
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Filexp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libc.U,v $
?RCS: Revision 3.0.1.10  1997/02/28  15:56:48  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: added support for HPUX-10 nm output
?RCS:
?RCS: Revision 3.0.1.9  1995/07/25  14:11:56  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.8  1995/05/12  12:20:47  ram
?RCS: patch54: made sure only most recent version of shared lib is picked
?RCS: patch54: final "nm -p" check now uses xscan and xrun
 like everybody
?RCS: patch54: can now grok Linux nm output with lead __IO (ADO)
?RCS: patch54: added support for Linux ELF output, using 'W' for alias (ADO)
?RCS:
?RCS: Revision 3.0.1.7  1994/10/29  16:23:40  ram
?RCS: patch36: now looks for shared libraries before anything else (ADO)
?RCS: patch36: added new nm output format (ADO)
```

```
?RCS:
?RCS: Revision 3.0.1.6  1994/08/29  16:28:10  ram
?RCS: patch32: added I-type symbols for nm output parsing on Linux
?RCS:
?RCS: Revision 3.0.1.5  1994/06/20  07:03:24  ram
?RCS: patch30: checks are now presented by succession of if/elif
?RCS: patch30: uniformized checks for shared objects with new so symbol
?RCS:
?RCS: Revision 3.0.1.4  1994/05/06  15:06:33  ram
?RCS: patch23: added shared library knowledge (ADO and WED)
?RCS:
?RCS: Revision 3.0.1.3  1994/01/24  14:12:17  ram
?RCS: patch16: can now export nm_extract as an internal-use only variable
?RCS:
?RCS: Revision 3.0.1.2  1993/09/13  16:09:03  ram
?RCS: patch10: added special handling for Apollo
 systems (WAD)
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:40:03  ram
?RCS: patch7: added entry for /usr/shlib/libc.so (OSF/1 machines)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libc +nm_extract: echo n c rm test grep Getfile Myread Oldconfig Loc \
 sed libs incpath libpth ar runnm nm nm_opt nm_so_opt contains xlibpth \
 so _a _o osname trnl tr sort uniq sysroot
?MAKE: -pick add $@ %<
?S:libc:
?S: This variable contains the location of the C library.
?S:.
?S:nm_extract:
?S: This variable holds the name of the extraction command used to process
?S: the output of nm and yield the list of defined symbols. It is used
?S: internally by Configure.
?S:.
?T:thislib try libnames xxx xscan xrun thisname com tans file
?F:!libnames !libc.tmp !tmp.imp
?LINT:extern PASE
?LINT:extern libnames
?LINT:change nm_opt
?INIT:libnames=''
: Figure out where the libc is located
case "$runnm" in
true)
?X: indentation is wrong on purpose--RAM
:
```

```
 get list of predefined functions in a handy place
echo " "
case "$libc" in
") libc=unknown
 case "$libs" in
 *-lc_s*) libc=`./loc libc_s$_a $libc $libpth`
 esac
 ;;
esac
case "$libs" in
") ;;
*)  for thislib in $libs; do
 case "$thislib" in
 -lc|-lc_s)
  : Handle C library specially below.
  ;;
 -l*)
  thislib=`echo $thislib | $sed -e 's/^-l//'`
  if try=`./loc lib$thislib.$so.'*' X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib.$so X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib$_a X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc $thislib$_a X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc $thislib X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc Slib$thislib$_a X $xlibpth`; $test -f "$try"; then
   :
  else
   try="
  fi
  libnames="$libnames $try"
  ;;
 *) libnames="$libnames $thislib" ;;
 esac
 done
 ;;
esac
?X:
?X: Some systems (e.g. DG/UX) use
 "environmental" links, which make the test
?X: -f fail. Ditto for symbolic links. So in order to reliably check the
?X: existence of a file, we use test -r. It will still fail with DG/UX links
?X: though, but at least it will detect symbolic links. At some strategic
```

```
?X: points, we make use of (test -h), using a sub-shell in case builtin test
?X: does not implement the -h check for symbolic links. This makes it
?X: possible to preset libc in a hint file for instance and have it show up
?X: as-is in the question.
?X:
xxx=normal
case "$libc" in
unknown)
?X:
?X: The sed below transforms .so.9 .so.12 into something like .so.0009 .so.0012,
?X: then sorts on it to allow keeping .so.12 instead of .so.9 as the latest
?X: up-to-date library. The initial filename (before sed munging, saved in hold
?X: space via 'h') is appended via 'G' before sorting, then the leading munged
?X: part is removed after sorting. Nice efficient work from Tye McQueen.
?X: The initial blurfl is here to prevent the trailing
 pipe from producing an
?X: empty string, causing Configure to output all its set variables!
?X:
 set /lib/libc.$so
 for xxx in $libpth; do
  $test -r $1 || set $xxx/libc.$so
  : The messy sed command sorts on library version numbers.
  $test -r $1 || \
   set `echo blurfl; echo $xxx/libc.$so.[0-9]* | \
   tr ' ' $trnl | egrep -v '\.[A-Za-z]*$' | $sed -e '
    h
    s/[0-9][0-9]*/0000&/g
    s/0*\([0-9][0-9][0-9][0-9][0-9]\)/\1/g
    G
    s/\n/ /' | \
    $sort | $sed -e 's/^.* //'`
  eval set \$$#
 done
 $test -r $1 || set $sysroot/usr/ccs/lib/libc.$so
 $test -r $1 || set $sysroot/lib/libsys_s$_a
 ;;
*)
?X: ensure the test below for the (shared) C library will fail
 set blurfl
 ;;
esac
if $test -r "$1"; then
 echo "Your (shared) C library seems to be in $1."
 libc="$1"
elif $test -r /lib/libc && $test -r /lib/clib; then
?X:
?X: Apollo has its C library in /lib/clib AND /lib/libc
?X: not to mention its math library in /lib/syslib...
```

```
?X:
 echo "Your C library seems to be in both /lib/clib
 and /lib/libc."
 xxx=apollo
 libc='/lib/clib /lib/libc'
 if $test -r /lib/syslib; then
  echo "(Your math library is in /lib/syslib.)"
?X: Put syslib in libc -- not quite right, but won't hurt
  libc="$libc /lib/syslib"
 fi
elif $test -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
 echo "Your C library seems to be in $libc, as you said before."
?X: For mips, and...
elif $test -r $incpath/usr/lib/libc$_a; then
 libc=$incpath/usr/lib/libc$_a;
 echo "Your C library seems to be in $libc.  That's fine."
elif $test -r /lib/libc$_a; then
 libc=/lib/libc$_a;
 echo "Your C library seems to be in $libc.  You're normal."
else
 if tans=`./loc libc$_a blurfl/dyick $libpth`; $test -r "$tans"; then
  :
 elif tans=`./loc libc blurfl/dyick $libpth`; $test -r "$tans"; then
  libnames="$libnames "`./loc clib blurfl/dyick $libpth`
 elif tans=`./loc clib blurfl/dyick $libpth`; $test -r "$tans"; then
  :
 elif tans=`./loc Slibc$_a blurfl/dyick $xlibpth`; $test -r "$tans"; then
  :
 elif tans=`./loc
 Mlibc$_a blurfl/dyick $xlibpth`; $test -r "$tans"; then
  :
 else
  tans=`./loc Llibc$_a blurfl/dyick $xlibpth`
 fi
 if $test -r "$tans"; then
  echo "Your C library seems to be in $tans, of all places."
  libc=$tans
 else
  libc='blurfl'
 fi
fi
if $test $xxx = apollo -o -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
 dflt="$libc"
 cat <<EOM

If the guess above is wrong (which it might be if you're using a strange
compiler, or your machine supports multiple models), you can override it here.
```

```
EOM
else
 dflt=''
 echo $libpth | $tr ' ' $trnl | $sort | $uniq > libpath
 cat >&4 <<EOM
I can't seem to find your C library.  I've looked in the following places:

EOM
 $sed 's/^/ /' libpath
 cat <<EOM

None of these seems to contain your C library. I need to get its name...

EOM
fi
fn=f
rp='Where is your C library?'
. ./getfile
libc="$ans"

echo " "
echo $libc $libnames | $tr ' ' $trnl | $sort | $uniq > libnames
set X `cat libnames`
shift
xxx=files
case $# in 1) xxx=file; esac
echo
 "Extracting names from the following $xxx for later perusal:" >&4
echo " "
$sed 's/^/ /' libnames >&4
echo " "
$echo $n "This may take a while...$c" >&4

?X:
?X: Linux may need the special Dynamic option to nm for shared libraries.
?X: In general, this is stored in the nm_so_opt variable.
?X: Unfortunately, that option may be fatal on non-shared libraries.
?X:
for file in $*; do
 case $file in
 *$so*) $nm $nm_so_opt $nm_opt $file 2>/dev/null;;
 *) $nm $nm_opt $file 2>/dev/null;;
 esac
done >libc.tmp

$echo $n ".$c"
?X:
?X: To accelerate processing, we look at the correct 'sed' command
```

```
?X: by using a small subset of libc.tmp, i.e. fprintf function.
?X: When we know which sed command to use, do the name extraction
?X:
$grep fprintf libc.tmp > libc.ptf
?X:
?X: In order to enhance readability and save some space, we define
?X: some variables that will be "eval"ed.
?X:
xscan='eval "<libc.ptf $com >libc.list"; $echo $n ".$c" >&4'
xrun='eval "<libc.tmp $com >libc.list"; echo "done." >&4'
?X:
 BSD-like output, I and W types added for Linux
?X: Some versions of Linux include a leading __IO in the symbol name.
?X: HP-UX 10 reportedly has trailing spaces, though I'm surprised it has
?X: BSD-like output.  (AD).
?X: GNU extension: i is "indirect function"
xxx='[ADTSIWi]'
if com="$sed -n -e 's/__IO//' -e 's/^.* $xxx  *//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: SYSV-like output
elif com="$sed -n -e 's/^__*//' -e 's/^\([a-zA-Z_0-9$]*\).*xtern.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e '/|UNDEF/d' -e '/FUNC..GL/s/^.*|__*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.* D __*//p' -e 's/^.* D //p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^_//' -e 's/^\([a-zA-Z_0-9]*\).*xtern.*text.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$'
 libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$grep '|' | $sed -n -e '/|COMMON/d' -e '/|DATA/d' \
    -e '/ file/d' -e 's/^\([^  ]*\).*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
```

```
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|//p' -e 's/^.*|FUNC |WEAK .*|//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: mips nm output (sysV)
elif com="$sed -n -e 's/^__//' -e '/|Undef/d' -e '/|Proc/s/ .*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|Proc .*|Text *| *//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e '/Def. Text/s/.* \([^ ]*\)\$/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: OS/2
 nm output
elif com="$sed -n -e 's/^[-0-9a-f ]*_\(.*\)=.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/.*\.text n\ \ \ \.//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: AIX nm output
elif com="sed -n -e 's/^__.*//' -e 's/[       ]*D[    ]*[0-9]*.*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
else
 $nm -p $* 2>/dev/null >libc.tmp
 $grep fprintf libc.tmp > libc.ptf
 if com="$sed -n -e 's/^.* [ADTSIW]  *_[_.]*//p' -e 's/^.* [ADTSIW] //p'";\
  eval $xscan; $contains '^fprintf$' libc.list >/dev/null 2>&1
 then
  nm_opt='-p'
  eval $xrun
 else
  echo " "
  echo "$nm didn't seem to work right. Trying $ar instead..." >&4
  com="
  if $ar t $libc > libc.tmp && \
   $contains '^fprintf$' libc.tmp >/dev/null 2>&1
  then
   for thisname in $libnames $libc; do
```

```
    $ar t $thisname >>libc.tmp
   done
   $sed -e "s/\\$_o\$//" < libc.tmp > libc.list
   echo
 "Ok." >&4
  elif test "X$osname" = "Xos2" && $ar tv $libc > libc.tmp; then
?X: Repeat libc to extract forwarders to DLL entries too
   for thisname in $libnames $libc; do
    $ar tv $thisname >>libc.tmp
?X: Revision 50 of EMX has bug in ar: it will not extract forwarders
?X: to DLL entries.  Use emximp which will extract exactly them.
    emximp -o tmp.imp $thisname \
        2>/dev/null && \
        $sed -e 's/^\([_a-zA-Z0-9]*\) .*$/\1/p' \
        < tmp.imp >>libc.tmp
    $rm -f tmp.imp
   done
   $sed -e "s/\\$_o\$//" -e 's/^ \+//' < libc.tmp > libc.list
   echo "Ok." >&4
  else
   echo "$ar didn't seem to work right." >&4
   echo "Maybe this is a Cray...trying bld instead..." >&4
   if  bld t $libc | \
    $sed -e 's/.*\///' -e "s/\\$_o:.*\$//" > libc.list &&
    $test -s libc.list
   then
    for thisname in $libnames; do
     bld t $libnames | \
     $sed -e 's/.*\///' -e "s/\\$_o:.*\$//" >>libc.list
     $ar t $thisname >>libc.tmp
    done
    echo "Ok." >&4
   else
    echo
 "That didn't work either.  Giving up." >&4
    exit 1
   fi
  fi
 fi
fi
nm_extract="$com"
case "$PASE" in
define)
   echo " "
   echo "Since you are compiling for PASE, extracting more symbols from libc.a ...">&4
   dump -Tv /lib/libc.a | awk '$7 == "/unix" {print $5 " " $8}' | grep "^SV" | awk '{print $2}' >> libc.list
   ;;
*)  if $test -f /lib/syscalls.exp; then
```

```
 echo " "
 echo "Also extracting names from /lib/syscalls.exp for good ole AIX..." >&4
 $sed -n 's/^\([^  ]*\)[  ]*syscall[0-9]*[  ]*$/\1/p' \
  /lib/syscalls.exp >>libc.list
   fi
   ;;
esac
;;
esac
$rm -f libnames libpath
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/libc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_statblks.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:29  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_statblks: contains Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_statblks:
?S: This variable conditionally defines USE_STAT_BLOCKS if this system
?S: has a stat structure declaring st_blksize and st_blocks.
?S:.
?C:USE_STAT_BLOCKS (STATBLOCKS):
?C: This symbol is defined if this system has a stat structure declaring
?C: st_blksize and st_blocks.
?C:.
?H:#$d_statblks USE_STAT_BLOCKS
  /**/
?H:.
?T:xxx
?LINT:set d_statblks
: see if stat knows about block sizes
echo " "
xxx=`./findhdr sys/stat.h`
```

```
if $contains 'st_blocks;' "$xxx" >/dev/null 2>&1 ; then
 if $contains 'st_blksize;' "$xxx" >/dev/null 2>&1 ; then
  echo "Your stat() knows about block sizes." >&4
  val="$define"
 else
  echo "Your stat() doesn't know about block sizes." >&4
  val="$undef"
 fi
else
 echo "Your stat() doesn't know about block sizes." >&4
 val="$undef"
fi
set d_statblks
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_statblks.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_msgget.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msgget.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_msgget: Inlibc
?MAKE: -pick add $@ %<
?S:d_msgget:
?S: This variable conditionally defines the HAS_MSGGET symbol, which
?S: indicates to the C program that the msgget() routine is available.
?S:.
?C:HAS_MSGGET:
?C: This symbol, if defined, indicates that the msgget() routine is
?C: available to get a new message queue.
?C:.
?H:#$d_msgget
 HAS_MSGGET  /**/
?H:.
?LINT:set d_msgget
```

```
: see if msgget exists
set msgget d_msgget
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_msgget.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: scriptdir.U,v 3.1 1999/07/09 18:20:13 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: scriptdir.U,v $
?RCS: Revision 3.1  1999/07/09 18:20:13  doughera
?RCS: Updated for installprefix
?RCS:
?RCS: Revision 3.0.1.3  1995/09/25  09:17:15  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:46:13  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:32:04  ram
?RCS: patch32: now uses installation prefix
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:09:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:scriptdir scriptdirexp installscript: cat test Getfile Loc \
 Oldconfig +bin Prefixit Setprefixvar prefixexp Prefixup
?MAKE: -pick add $@ %<
?Y:TOP
?D:scriptdir=''
?S:scriptdir:
?S: This variable holds the name of the directory in which the user wants
?S: to put publicly scripts for the package in question.  It is either
?S: the same directory as for binaries, or a special one that can be
?S: mounted across different architectures, like /usr/share. Programs
?S: must be prepared to deal with ~name expansion.
?S:.
```

```
?D:scriptdirexp="
?S:scriptdirexp:
?S: This variable is the same as scriptdir, but is filename expanded
?S: at configuration time, for programs not wanting to bother with it.
?S:.
?S:installscript:
?S: This variable is usually the same as scriptdirexp, unless you are on
?S: a system running AFS, in which case they may differ slightly. You
?S: should always use this variable
 within your makefiles for portability.
?S:.
?C:SCRIPTDIR:
?C: This symbol holds the name of the directory in which the user wants
?C: to put publicly executable scripts for the package in question.  It
?C: is often a directory that is mounted across diverse architectures.
?C: Programs must be prepared to deal with ~name expansion.
?C:.
?C:SCRIPTDIR_EXP:
?C: This is the same as SCRIPTDIR, but is filename expanded at
?C: configuration time, for use in programs not prepared to do
?C: ~name substitutions at run-time.
?C:.
?H:#define SCRIPTDIR "$scriptdir" /**/
?H:#define SCRIPTDIR_EXP "$scriptdirexp" /**/
?H:.
?T:installscriptdir
?LINT:change prefixvar
?LINT:set scriptdir
?LINT:set scriptdirexp
: determine where public executable scripts go
set scriptdir scriptdir
eval $prefixit
case "$scriptdir" in
")
 dflt="$bin"
 : guess some guesses
 $test -d /usr/share/scripts && dflt=/usr/share/scripts
 $test -d /usr/share/bin     && dflt=/usr/share/bin
 $test -d /usr/local/script  && dflt=/usr/local/script
 $test
 -d /usr/local/scripts && dflt=/usr/local/scripts
 $test -d $prefixexp/script  && dflt=$prefixexp/script
 set dflt
 eval $prefixup
 ;;
*)  dflt="$scriptdir"
 ;;
esac
```

```
$cat <<EOM

Some installations have a separate directory just for executable scripts so
that they can mount it across multiple architectures but keep the scripts in
one spot.  You might, for example, have a subdirectory of /usr/share for this.
Or you might just lump your scripts in with all your other executables.

EOM
fn=d~
rp='Where do you keep publicly executable scripts?'
. ./getfile
if $test "X$ansexp" != "X$scriptdirexp"; then
 installscript=''
fi
installscriptdir=''
prefixvar=scriptdir
. ./setprefixvar
: A little fix up for an irregularly named variable.
installscript="$installscriptdir"
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/scriptdir.U
No license file was found, but licenses were detected in source scan.

```
#  You may redistribute only under the terms of the Artistic Licence,
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/lib/errnolist.mk
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/bindex
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/files/fixcpp
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/makegloss
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:ivdformat uvuformat uvoformat uvxformat uvXUformat \
 nvEUformat nvFUformat nvGUformat \
 nveformat nvfformat nvgformat: \
```

```
 ivsize longsize intsize shortsize \
 sPRId64 sPRIu64 sPRIo64 sPRIx64 sPRIXU64 \
 uselongdouble d_longdbl usequadmath d_PRIgldbl \
 sPRIEUldbl sPRIFUldbl sPRIGUldbl sPRIeldbl sPRIfldbl sPRIgldbl \
 test echo
?MAKE: -pick add $@ %<
?S:ivdformat:
?S: This variable contains the format string used for printing
?S: a Perl IV as a signed decimal integer.
?S:.
?S:uvuformat:
?S: This variable contains the format string used for printing
?S: a Perl UV as an unsigned decimal integer.
?S:.
?S:uvoformat:
?S: This variable contains the format string used for printing
?S: a Perl UV as an unsigned
 octal integer.
?S:.
?S:uvxformat:
?S: This variable contains the format string used for printing
?S: a Perl UV as an unsigned hexadecimal integer in lowercase abcdef.
?S:.
?S:uvXUformat:
?S: This variable contains the format string used for printing
?S: a Perl UV as an unsigned hexadecimal integer in uppercase ABCDEF.
?S:.
?S:nveformat:
?S: This variable contains the format string used for printing
?S: a Perl NV using %e-ish floating point format.
?S:.
?S:nvfformat:
?S: This variable contains the format string used for printing
?S: a Perl NV using %f-ish floating point format.
?S:.
?S:nvgformat:
?S: This variable contains the format string used for printing
?S: a Perl NV using %g-ish floating point format.
?S:.
?S:nvEUformat:
?S: This variable contains the format string used for printing
?S: a Perl NV using %E-ish floating point format.
?S:.
?S:nvFUformat:
?S: This variable contains the format string used for printing
?S: a Perl NV using %F-ish floating point format.
?S:.
?S:nvGUformat:
```

?S: This
variable contains the format string used for printing
?S: a Perl NV using %G-ish floating point format.
?S:.
?C:IVdf:
?C: This symbol defines the format string used for printing a Perl IV
?C: as a signed decimal integer.
?C:.
?C:UVuf:
?C: This symbol defines the format string used for printing a Perl UV
?C: as an unsigned decimal integer.
?C:.
?C:UVof:
?C: This symbol defines the format string used for printing a Perl UV
?C: as an unsigned octal integer.
?C:.
?C:UVxf:
?C: This symbol defines the format string used for printing a Perl UV
?C: as an unsigned hexadecimal integer in lowercase abcdef.
?C:.
?C:UVXf:
?C: This symbol defines the format string used for printing a Perl UV
?C: as an unsigned hexadecimal integer in uppercase ABCDEF.
?C:.
?C:NVef:
?C: This symbol defines the format string used for printing a Perl NV
?C: using %e-ish floating point format.
?C:.
?C:NVff:
?C: This symbol defines the format string used for printing a Perl NV
?C: using %f-ish floating point
format.
?C:.
?C:NVgf:
?C: This symbol defines the format string used for printing a Perl NV
?C: using %g-ish floating point format.
?C:.
?C:NVEf:
?C: This symbol defines the format string used for printing a Perl NV
?C: using %E-ish floating point format.
?C:.
?C:NVFf:
?C: This symbol defines the format string used for printing a Perl NV
?C: using %F-ish floating point format.
?C:.
?C:NVGf:
?C: This symbol defines the format string used for printing a Perl NV
?C: using %G-ish floating point format.

```
?C:.
?H:#define IVdf  $ivdformat  /**/
?H:#define UVuf  $uvuformat  /**/
?H:#define UVof  $uvoformat  /**/
?H:#define UVxf  $uvxformat  /**/
?H:#define UVXf  $uvXUformat  /**/
?H:#define NVef  $nveformat  /**/
?H:#define NVff  $nvfformat  /**/
?H:#define NVgf  $nvgformat  /**/
?H:#define NVEf  $nvEUformat  /**/
?H:#define NVFf  $nvFUformat  /**/
?H:#define NVGf  $nvGUformat  /**/
?H:.
: Check format strings for internal types
echo " "
$echo "Checking the format strings to be used for Perl's
 internal types..." >&4

if $test X"$ivsize" = X8; then
 ivdformat="$sPRId64"
 uvuformat="$sPRIu64"
 uvoformat="$sPRIo64"
 uvxformat="$sPRIx64"
 uvXUformat="$sPRIXU64"
else
 if $test X"$ivsize" = X"$longsize"; then
  ivdformat="'ld'"
  uvuformat="'lu'"
  uvoformat="'lo'"
  uvxformat="'lx'"
  uvXUformat="'lX'"
 else
  if $test X"$ivsize" = X"$intsize"; then
   ivdformat="'d'"
   uvuformat="'u'"
   uvoformat="'o'"
   uvxformat="'x'"
   uvXUformat="'X'"
  else
   : far out
   if $test X"$ivsize" = X"$shortsize"; then
    ivdformat="'hd'"
    uvuformat="'hu'"
    uvoformat="'ho'"
    uvxformat="'hx'"
    uvXUformat="'hX'"
   fi
  fi
```

```
 fi
fi

if $test X"$usequadmath" = X"$define"; then
   nveformat="'Qe'"
   nvfformat="'Qf'"
   nvgformat="'Qg'"
   nvEUformat="'QE'"
   nvFUformat="'QF'"
   nvGUformat="'QG'"
else
   if $test X"$uselongdouble" = X"$define" -a X"$d_longdbl" = X"$define" -a X"$d_PRIgldbl" = X"$define"; then
 nveformat="$sPRIeldbl"
 nvfformat="$sPRIfldbl"
 nvgformat="$sPRIgldbl"
 nvEUformat="$sPRIEUldbl"
 nvFUformat="$sPRIFUldbl"
 nvGUformat="$sPRIGUldbl"
    else
 nveformat="'e'"
 nvfformat="'f'"
 nvgformat="'g'"
 nvEUformat="'E'"
 nvFUformat="'F'"
 nvGUformat="'G'"
   fi
fi

case "$ivdformat" in
") echo "$0: Fatal: failed to find format strings, cannot continue." >&4
   exit 1
   ;;
esac

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-
5.36.0/U/perl/perlxvf.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_getprotby.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getpbyname d_getpbynumber: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_getpbyname:
?S: This variable conditionally defines the HAS_GETPROTOBYNAME
?S: symbol, which indicates to the C program that the
?S: getprotobyname() routine is available to look up protocols
?S: by their name.
?S:.
?S:d_getpbynumber:
?S: This variable conditionally defines the HAS_GETPROTOBYNUMBER
?S: symbol, which indicates to the C program that the
?S: getprotobynumber() routine is available to look up protocols
?S: by their number.
?S:.
?C:HAS_GETPROTOBYNAME:
?C: This symbol, if defined, indicates that the getprotobyname()
?C: routine is available to look up protocols by their name.
?C:.
?C:HAS_GETPROTOBYNUMBER:
?C: This
 symbol, if defined, indicates that the getprotobynumber()
?C: routine is available to look up protocols by their number.
?C:.
?H:#$d_getpbyname HAS_GETPROTOBYNAME  /**/
?H:#$d_getpbynumber HAS_GETPROTOBYNUMBER  /**/
?H:.
?LINT:set d_getpbyname d_getpbynumber
: Optional checks for getprotobyname and getprotobynumber

@if d_getpbyname || HAS_GETPROTOBYNAME
: see if getprotobyname exists
set getprotobyname d_getpbyname
eval $inlibc
@end

@if d_getpbynumber || HAS_GETPROTOBYNUMBER
: see if getprotobynumber exists
set getprotobynumber d_getpbynumber
eval $inlibc
@end
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_getprotby.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_lstat.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_lstat.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:28  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_lstat: Inlibc
?MAKE: -pick add $@ %<
?S:d_lstat:
?S: This variable conditionally defines HAS_LSTAT if lstat() is
?S: available to do file stats on symbolic links.
?S:.
?C:HAS_LSTAT (LSTAT):
?C: This symbol, if defined, indicates that the lstat routine is
?C: available to do file stats on symbolic links.
?C:.
?H:#$d_lstat HAS_LSTAT  /**/
?H:.
?LINT:set
 d_lstat
: see if lstat exists
set lstat d_lstat
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_lstat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: doublesize.U,v 3.0.1.1 1994/10/29 16:17:06 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: doublesize.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:17:06  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:06  ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:doublesize: cat rm_try Myread Compile run i_stdlib
?MAKE: -pick add $@ %<
?S:doublesize:
?S: This variable contains the value of the DOUBLESIZE symbol, which
?S: indicates to the C program how many bytes there are in a double.
?S:.
?C:DOUBLESIZE:
?C: This
 symbol contains the size of a double, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define DOUBLESIZE $doublesize  /**/
?H:.
?F:!try
: check for length of double
echo " "
case "$doublesize" in
")
 echo "Checking to see how big your double precision numbers are..." >&4
 $cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
{
   printf("%d\n", (int)sizeof(double));
   exit(0);
}
EOCP
 set try
 if eval $compile_ok; then
  doublesize=`$run ./try`
  echo "Your double is $doublesize bytes long."
 else
  dflt='8'
  echo "(I can't seem to compile the test program.  Guessing...)"
  rp="What is the size of a double precision number (in bytes)?"
  . ./myread
  doublesize="$ans"
 fi
 ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/doublesize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpgrp.U,v 3.0.1.1 1997/02/28 15:34:28 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_getpgrp.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:34:28  ram
?RCS: patch61: new USE_BSD_GETPGRP to detect the getpgrp() flavor
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getpgrp d_bsdgetpgrp: Guess Inlibc Setvar cat rm_try \
 +cc +ccflags +ldflags +libs i_unistd i_stdlib run
?MAKE: -pick add $@ %<
?S:d_getpgrp:
?S: This variable conditionally defines HAS_GETPGRP if getpgrp() is
?S: available
 to get the current process group.
?S:.
?S:d_bsdgetpgrp:
?S: This variable conditionally defines USE_BSD_GETPGRP if
?S: getpgrp needs one arguments whereas USG one needs none.
?S:.
?C:HAS_GETPGRP (GETPGRP):
?C: This symbol, if defined, indicates that the getpgrp routine is
?C: available to get the current process group.
?C:.
?C:USE_BSD_GETPGRP:
?C: This symbol, if defined, indicates that getpgrp needs one
?C: arguments whereas USG one needs none.
?C:.
?H:#$d_getpgrp HAS_GETPGRP  /**/
?H:#$d_bsdgetpgrp USE_BSD_GETPGRP /**/
?H:.
?T:xxx
?F:!try
?LINT:set d_getpgrp d_bsdgetpgrp
```

```
: see if getpgrp exists
set getpgrp d_getpgrp
eval $inlibc

@if USE_BSD_GETPGRP || d_bsdgetpgrp
case "$d_getpgrp" in
"$define")
 echo " "
 echo "Checking to see which flavor of getpgrp is in use..."
 $cat >try.c <<EOP
#include <stdio.h>
#$i_unistd I_UNISTD
#include <sys/types.h>
#ifdef I_UNISTD
#  include <unistd.h>
#endif
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
{
 if (getuid()
 == 0) {
  printf("(I see you are running Configure as super-user...)\n");
  setuid(1);
 }
#ifdef TRY_BSD_PGRP
 if (getpgrp(1) == 0)
  exit(0);
#else
 if (getpgrp() > 0)
  exit(0);
#endif
 exit(1);
}
EOP
 if $cc -o try -DTRY_BSD_PGRP $ccflags $ldflags try.c $libs >/dev/null 2>&1 && $run ./try; then
  echo "You have to use getpgrp(pid) instead of getpgrp()." >&4
  val="$define"
 elif $cc -o try $ccflags $ldflags try.c $libs >/dev/null 2>&1 && $run ./try; then
  echo "You have to use getpgrp() instead of getpgrp(pid)." >&4
  val="$undef"
 else
  echo "I can't seem to compile and run the test program."
  if ./usg; then
   xxx="a USG one, i.e. you use getpgrp()."
  else
```

```
  # SVR4 systems can appear rather BSD-ish.
  case "$i_unistd" in
  $undef)
   xxx="a BSD one, i.e. you use getpgrp(pid)."
   val="$define"
   ;;
  $define)
   xxx="probably a USG one, i.e. you use getpgrp()."
   val="$undef"
   ;;
  esac
 fi
 echo "Assuming your getpgrp is $xxx" >&4
fi
;;
*) val="$undef";;
esac
set
 d_bsdgetpgrp
eval $setvar
$rm_try
@end
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_getpgrp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Setvar.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Setvar.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  15:58:28  ram
?RCS: patch36: call ./whoa explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:16  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a variable that is intended to be eval'ed in
?X: order to define/undefine a symbol. A consistency check is made
```

```
?X: regarding any previous value and a warning is issued if there
?X: is any discrepancy.
?X:
?X:
 To use it, say:
?X: val=<value>
?X: set d_variable
?X: eval $setvar
?X:
?MAKE:Setvar: Whoa
?MAKE: -pick add $@ %<
?LINT:define setvar
?S:setvar:
?S: This shell variable is used internally by Configure to set a value
?S: to a given symbol that is defined or not. A typical use is:
?S: val=<value computed>
?S:  set d_variable
?S:  eval $setvar
?S: That will print a message in case the $val value is not the same
?S: as the previous value of $d_variable.
?S:.
?V:setvar:val
?T:var was td tu
: function used to set '$1' to '$val'
setvar='var=$1; eval "was=\$$1"; td=$define; tu=$undef;
case "$val$was" in
$define$undef) . ./whoa; eval "$var=\$td";;
$undef$define) . ./whoa; eval "$var=\$tu";;
*) eval "$var=$val";;
esac'
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Setvar.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: abortsig.U,v 3.0.1.1 1994/10/29 16:02:19 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: abortsig.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:02:19  ram
```

```
?RCS: patch36: call ./usg explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:20  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:abortsig: Myread Oldconfig Guess cat Compile rm
?MAKE: -pick add $@ %<
?S:abortsig:
?S: This variable holds the name of the signal used by the abort() call.
?S:.
?C:ABORTSIG:
?C: This symbol holds the signal number (symbol)
 used by the abort() call. To
?C: actually define the signal symbol, <signal.h> should be included.
?C:.
?H:#define ABORTSIG $abortsig  /**/
?H:.
?T:signal
: which signal is sent by abort ?
echo " "
case "$abortsig" in
")
 echo "Checking to see which signal is sent to the process by abort()..." >&4
 echo "abort" > abort.sh
 chmod +x abort.sh
?X: SIGABRT should replace SIGIOT on USG machines in a near future (1991).
 for signal in SIGIOT SIGILL SIGABRT; do
  case "$abortsig" in
  ") $cat >abort.c <<EOP
#include <signal.h>
caught() { exit(0); }
int main()
{
#ifdef $signal
 signal($signal, caught);
#endif
 if (-1 == abort())
  exit(1);
 exit(1);
}
EOP
?X: We have to use the abort.sh script otherwise sh behaves strangely on AIX.
   set abort
   if eval $compile; then
    (./abort.sh) >/dev/null 2>&1
    case $? in
    0) abortsig="$signal";;
    esac
```

```
   fi
   ;;
  esac
 done
 ;;
esac
case "$abortsig" in
") echo "(I wasn't able to compute the signal name--guessing)"
 if ./usg; then
  dflt="SIGIOT"
 else
  dflt="SIGILL"
 fi;;
*)
  dflt="$abortsig"
 ;;
esac
rp="Which signal does abort() send to the process (signal name)?"
. ./myread
abortsig="$ans"
$rm -f core abort.sh abort abort.c
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/abortsig.U
No license file was found, but licenses were detected in source scan.

```
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:sizesize: Myread Typedef sizetype Compile run i_stdlib
?MAKE: -pick add $@ %<
?S:sizesize:
?S: This variable contains the size of a sizetype in bytes.
?S:.
?C:Size_t_size:
?C: This symbol holds the size of a Size_t in bytes.
?C:.
?H:#define Size_t_size $sizesize  /**/
?H:.
?T:yyy zzz
?F:!try
```

```
: Check size of size
echo " "
case "$sizetype" in
*_t) zzz="$sizetype" ;;
*)   zzz="filesize" ;;
esac
echo "Checking the size of $zzz..." >&4
cat > try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include
 <stdlib.h>
#endif
int main() {
   printf("%d\n", (int)sizeof($sizetype));
   exit(0);
}
EOCP
set try
if eval $compile_ok; then
 yyy=`$run ./try`
 case "$yyy" in
 ") sizesize=4
  echo "(I can't execute the test program--guessing $sizesize.)" >&4
  ;;
 *) sizesize=$yyy
  echo "Your $zzz size is $sizesize bytes."
  ;;
 esac
else
 sizesize=4
 echo "(I can't compile the test program--guessing $sizesize.)" >&4
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/sizesize.U
No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isnormal: cat Compile Setvar rm_try
?MAKE: -pick add $@ %<
?S:d_isnormal:
?S: This variable conditionally defines the HAS_ISNORMAL symbol, which

```
?S: indicates to the C program that the isnormal() routine is available.
?S:.
?C:HAS_ISNORMAL:
?C: This symbol, if defined, indicates that the isnormal routine is
?C: available to check whether a double is normal (non-zero normalized).
?C:.
?H:#$d_isnormal HAS_ISNORMAL  /**/
?H:.
?LINT:set d_isnormal
: check for isnormal
echo "Checking to see if you have isnormal..." >&4
$cat >try.c <<EOCP
#include <math.h>
int main() { return isnormal(0.0); }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have isnormal."
else
 val="$undef"
 echo "You do not have isnormal."
fi
$rm_try
set d_isnormal
eval $setvar
```

Found
 in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_isnormal.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getnetbyaddr_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getnetbyaddr_r getnetbyaddr_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getnetbyaddr_r:
?S: This variable conditionally defines the HAS_GETNETBYADDR_R symbol,
?S: which indicates to the C program that the getnetbyaddr_r()
?S: routine is available.
```

```
?S:.
?S:getnetbyaddr_r_proto:
?S: This variable encodes the prototype of getnetbyaddr_r.
?S: It is zero if d_getnetbyaddr_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getnetbyaddr_r
?S: is defined.
?S:.
?C:HAS_GETNETBYADDR_R:
?C: This symbol, if defined, indicates that
 the getnetbyaddr_r routine
?C: is available to getnetbyaddr re-entrantly.
?C:.
?C:GETNETBYADDR_R_PROTO:
?C: This symbol encodes the prototype of getnetbyaddr_r.
?C: It is zero if d_getnetbyaddr_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getnetbyaddr_r
?C: is defined.
?C:.
?H:#$d_getnetbyaddr_r HAS_GETNETBYADDR_R /**/
?H:#define GETNETBYADDR_R_PROTO $getnetbyaddr_r_proto /**/
?H:.
?T:try hdrs d_getnetbyaddr_r_proto
: see if getnetbyaddr_r exists
set getnetbyaddr_r d_getnetbyaddr_r
eval $inlibc
case "$d_getnetbyaddr_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getnetbyaddr_r_proto:$usethreads" in
 ":define") d_getnetbyaddr_r_proto=define
  set d_getnetbyaddr_r_proto getnetbyaddr_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getnetbyaddr_r_proto" in
 define)
 case "$getnetbyaddr_r_proto" in
 "|0) try='int getnetbyaddr_r(unsigned long, int, struct netent*, char*, size_t, struct netent**, int*);'
 ./protochk
 "$extern_C $try" $hdrs && getnetbyaddr_r_proto=I_UISBWRE ;;
 esac
 case "$getnetbyaddr_r_proto" in
 "|0) try='int getnetbyaddr_r(long, int, struct netent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=I_LISBI ;;
 esac
 case "$getnetbyaddr_r_proto" in
 "|0) try='struct netent* getnetbyaddr_r(in_addr_t, int, struct netent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=S_TISBI ;;
```

```
 esac
 case "$getnetbyaddr_r_proto" in
 "|0) try='struct netent* getnetbyaddr_r(long, int, struct netent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=S_LISBI ;;
 esac
 case "$getnetbyaddr_r_proto" in
 "|0) try='int getnetbyaddr_r(in_addr_t, int, struct netent*, struct netent_data*);'
 ./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=I_TISD ;;
 esac
 case "$getnetbyaddr_r_proto" in
 "|0) try='int getnetbyaddr_r(long, int, struct netent*, struct netent_data*);'
 ./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=I_LISD
 ;;
 esac
 case "$getnetbyaddr_r_proto" in
 "|0) try='int getnetbyaddr_r(int, int, struct netent*, struct netent_data*);'
 ./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=I_IISD ;;
 esac
 case "$getnetbyaddr_r_proto" in
 "|0) try='int getnetbyaddr_r(uint32_t, int, struct netent*, char*, size_t, struct netent**, int*);'
 ./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=I_uISBWRE ;;
 esac
 case "$getnetbyaddr_r_proto" in
 "|0) d_getnetbyaddr_r=undef
  getnetbyaddr_r_proto=0
  echo "Disabling getnetbyaddr_r, cannot determine prototype." >&4 ;;
 * ) case "$getnetbyaddr_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getnetbyaddr_r_proto="REENTRANT_PROTO_$getnetbyaddr_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getnetbyaddr_r has no prototype, not using it." >&4 ;;
  esac
  d_getnetbyaddr_r=undef
  getnetbyaddr_r_proto=0
  ;;
 esac
 ;;
*) getnetbyaddr_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getnetbyaddr_r.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysdir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysdir.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:22:30  ram
?RCS: patch32: fixed typo in I_SYS_DIR symbol name
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:30  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_sysdir: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysdir:
?S: This variable conditionally defines the I_SYS_DIR symbol, and indicates
?S: whether a C program should include <sys/dir.h>.
?S:.
?C:I_SYS_DIR (I_SYSDIR):
?C: This symbol, if
 defined, indicates to the C program that it should
?C: include <sys/dir.h>.
?C:.
?H:#$i_sysdir I_SYS_DIR  /**/
?H:.
?LINT:set i_sysdir
: see if this is an sysdir system
set sys/dir.h i_sysdir
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sysdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setsid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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```

```
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setsid.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:06:49  ram
?RCS: patch16: created
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setsid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setsid:
?S: This variable conditionally defines HAS_SETSID if setsid() is
?S: available to set the process group ID.
?S:.
?C:HAS_SETSID:
?C: This symbol, if defined, indicates that the setsid routine is
?C: available
 to set the process group ID.
?C:.
?H:#$d_setsid HAS_SETSID /**/
?H:.
?LINT:set d_setsid
: see if setsid exists
set setsid d_setsid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setsid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_scannl.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:41:27  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
```

```
?RCS: Revision 3.0.1.1  1995/07/25  13:59:12  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:00  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Does the scanf routine read "\n" correctly ? This is was not
?X: the case on AIX...
?X:
?MAKE:d_scannl: cat +cc +ccflags rm Setvar
?MAKE: -pick add $@ %<
?S:d_scannl:
?S: This
 variable conditionally defines SCAN_NL, which indicates
?S: wether the C library routines scanf() and friends can deal with
?S: a '\n' in the input correctly. They do most of the time.
?S:.
?C:SCAN_NL:
?C: This symbol is defined if the C library routines scanf() and friends
?C: can deal with a '\n' in the input correctly, so that you can say
?C: scanf("%d\n"); instead of scanf("%d"); getc(c); to handle the '\n'.
?C:.
?H:#$d_scannl SCAN_NL  /* scanf("%d\n") works */
?H:.
?F:!try
?LINT:set d_scannl
: does scanf handle "\n" correctly ?
echo " "
val="$define"
?X: I really want to say "\n" instead of '\n', because I am referring
?X: to the string given as argument to scanf().
echo 'Let""""s see if scanf() handles "\\n" correctly...' >&4
$cat >try.c <<'EOCP'
int main()
{
 int i = 0, j = 0;
 scanf("%d\n%d", &i, &j);
 if (j != 3)
  exit(1);
 exit(0);
}
EOCP
if $cc $ccflags -o try try.c >/dev/null 2>&1; then
 if ./try <<'EOD'
2
3
EOD
```

```
 then
  echo "Yes, it does."
 else
  echo "No, it doesn't."
  val="$undef"
 fi
else
 echo
 "(I can't seem to compile the test program. Assuming it does.)"
fi
set d_scannl
eval $setvar
$rm -f try.* try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_scannl.U
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```
?RCS: $Id$
?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_statfs_f_flags: \
 Hasfield i_sysparam i_sysmount i_systypes \
 i_sysvfs i_sysstatfs Setvar d_statfs_s
?MAKE: -pick add $@ %<
?S:d_statfs_f_flags:
?S: This variable conditionally defines the HAS_STRUCT_STATFS_F_FLAGS
?S: symbol, which indicates to struct statfs from has f_flags member.
?S: This kind of struct statfs is coming from sys/mount.h (BSD),
?S: not from sys/statfs.h (SYSV).
?S:.
?C:HAS_STRUCT_STATFS_F_FLAGS:
?C: This symbol, if defined, indicates that the struct statfs
?C: does have the f_flags member containing the mount flags of
?C: the filesystem containing the file.
?C: This kind of struct statfs is coming from <sys/mount.h> (BSD 4.3),
?C: not from <sys/statfs.h> (SYSV).  Older BSDs
 (like Ultrix) do not
?C: have statfs() and struct statfs, they have ustat() and getmnt()
?C: with struct ustat and struct fs_data.
?C:.
?H:#$d_statfs_f_flags HAS_STRUCT_STATFS_F_FLAGS  /**/
?H:.
```

```
?LINT:set d_statfs_f_flags
: see if struct statfs knows about f_flags
case "$d_statfs_s" in
define)
 echo " "
 echo "Checking to see if your struct statfs has f_flags field..." >&4
 set d_statfs_f_flags statfs f_flags $i_systypes sys/types.h $i_sysparam sys/param.h $i_sysmount sys/mount.h
$i_sysvfs sys/vfs.h $i_sysstatfs sys/statfs.h
 eval $hasfield
 ;;
*) val="$undef"
 set d_statfs_f_flags
 eval $setvar
 ;;
esac
case "$d_statfs_f_flags" in
"$define")      echo "Yes, it does."   ;;
*)              echo "No, it doesn't." ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_statfs_f_flags.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Inlibc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Inlibc.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  15:55:08  ram
?RCS: patch36: call ./whoa explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit checks for the definition of a given function.
?X:
?X: To use it, say:
?X: set function d_func
?X: eval $inlibc
```

```
?X:
?MAKE:Inlibc: Csym Whoa Oldconfig
?MAKE: -pick add $@ %<
?LINT:define inlibc
?V:inlibc
?S:inlibc:
?S: This
 shell variable is used internally by Configure to check
?S: wether a given function is defined or not. A typical use is:
?S:  set function d_func
?S:  eval $inlibc
?S: That will print a message, saying wether function was found or
?S: not and set d_func accordingly.
?S:.
?T:was tx sym tres td tu var
: define an is-in-libc? function
inlibc='echo " "; td=$define; tu=$undef;
sym=$1; var=$2; eval "was=\$$2";
tx=yes;
case "$reuseval$was" in
true) ;;
true*) tx=no;;
esac;
case "$tx" in
yes)
 set $sym tres -f;
 eval $csym;
 case "$tres" in
 true)
  echo "$sym() found." >&4;
  case "$was" in $undef) . ./whoa; esac; eval "$var=\$td";;
 *)
  echo "$sym() NOT found." >&4;
  case "$was" in $define) . ./whoa; esac; eval "$var=\$tu";;
 esac;;
*)
 case "$was" in
 $define) echo "$sym() found." >&4;;
 *) echo "$sym() NOT found." >&4;;
 esac;;
esac'
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Inlibc.U
No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_hypot: Inlibc
?MAKE: -pick add $@ %<
?S:d_hypot:
?S: This variable conditionally defines HAS_HYPOT if hypot is available
?S: for numerically stable hypotenuse function.
?S:.
?C:HAS_HYPOT:
?C: This symbol, if defined, indicates that the hypot routine is
?C: available to do the hypotenuse function.
?C:.
?H:#$d_hypot HAS_HYPOT  /**/
?H:.
?LINT:set d_hypot
: see if hypot exists
set hypot d_hypot
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_hypot.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_syspoll.U 15 2006-08-30 18:21:51Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:i_syspoll: Inhdr
?MAKE: -pick add $@ %<
?S:i_syspoll:
?S: This variable conditionally defines the I_SYS_POLL symbol, which
?S: indicates to the C program that it should include <sys/poll.h>.
?S:.
?C:I_SYS_POLL:
?C: This symbol, if defined, indicates that the program may include
?C: <sys/poll.h>.  When I_POLL is also defined, it's probably safest
?C: to only include <poll.h>.
?C:.
?H:#$i_syspoll I_SYS_POLL /**/
?H:.
?LINT:set i_syspoll
```

```
: see if there is
 a sys/poll.h file
set sys/poll.h i_syspoll
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_syspoll.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: yacc.U,v 3.0.1.1 1994/05/13 15:28:48 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: yacc.U,v $
?RCS: Revision 3.0.1.1  1994/05/13  15:28:48  ram
?RCS: patch27: added byacc as another alternative (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:10:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:yacc yaccflags: Guess Myread Oldconfig byacc bison cat test _exe
?MAKE: -pick add $@ %<
?S:yacc:
?S: This variable holds the name of the compiler compiler we
?S: want to use in the Makefile. It can be yacc, byacc, or bison -y.
?S:.
?S:yaccflags:
?S: This
 variable contains any additional yacc flags desired by the
?S: user.  It is up to the Makefile to use this.
?S:.
?T:comp
: determine compiler compiler
case "$yacc" in
")
 dflt=yacc;;
*)
 dflt="$yacc";;
esac
echo " "
comp='yacc'
```

```
if $test -f "$byacc$_exe"; then
 dflt="$byacc"
 comp="byacc or $comp"
fi
if $test -f "$bison$_exe"; then
 comp="$comp or bison -y"
fi
rp="Which compiler compiler ($comp) shall I use?"
. ./myread
yacc="$ans"
case "$yacc" in
*bis*)
 case "$yacc" in
 *-y*) ;;
 *)
  yacc="$yacc -y"
  echo "(Adding -y option to bison to get yacc-compatible behavior.)"
  ;;
 esac
 ;;
esac

@if yaccflags
: see if we need extra yacc flags
dflt="$yaccflags"
case "$dflt" in
") dflt=none;;
esac
$cat <<EOH

Your yacc program may need extra flags to normally process the parser sources.
Do NOT specify any -d or -v flags here, since those are explicitly known
by the various Makefiles. However, if your machine has strange/undocumented
options (like -Sr# on SCO to specify the
 maximum number of grammar rules), then
please add them here.  To use no flags, specify the word "none".

EOH
rp="Any additional yacc flags?"
. ./myread
case "$ans" in
none) yaccflags=";;
*) yaccflags="$ans";;
esac

@end
```

Found in path(s):

* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/yacc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Tr.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  18:00:54  ram
?RCS: patch43: forgot to quote $@ to protect against "evil" characters
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:58:35  ram
?RCS: patch36: created
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to do a character translation. It catches translations to uppercase or
?X: to lowercase, and then invokes the real tr to perform the job.
?X:
?X: This unit is necessary on HP machines (HP strikes again!)
 with non-ascii
?X: ROMAN8-charset, where normal letters are not arranged in a row, so a-z
?X: covers not the whole alphabet but lots of special chars. This was reported
?X: by Andreas Sahlbach <a.sahlbach@tu-bs.de>.
?X:
?X: Units performing a tr '[A-Z]' '[a-z]' or the other way round should include
?X: us in their dependency and use ./tr instead.
?X:
?MAKE:Tr: startsh tr eunicefix
?MAKE: -pick add $@ %<
?F:./tr
?T:up low LC_ALL
: see whether [:lower:] and [:upper:] are supported character classes
echo " "
case "`echo AbyZ | LC_ALL=C $tr '[:lower:]' '[:upper:]' 2>/dev/null`" in
ABYZ)
 echo "Good, your tr supports [:lower:] and [:upper:] to convert case." >&4
 up='[:upper:]'
 low='[:lower:]'
 ;;
*) # There is a discontinuity in EBCDIC between 'I' and 'J'
```

```
      # (0xc9 and 0xd1), therefore that is a nice testing point.
      if test "X$up" = X -o "X$low" = X; then
    case "`echo IJ | LC_ALL=C $tr '[I-J]' '[i-j]' 2>/dev/null`" in
    ij) up='[A-Z]'
        low='[a-z]'
  ;;

 esac
      fi
 if test "X$up" = X -o "X$low" = X; then
    case "`echo IJ | LC_ALL=C $tr I-J i-j 2>/dev/null`" in
    ij) up='A-Z'
  low='a-z'
  ;;
    esac
      fi
 if test "X$up" = X -o "X$low" = X; then
    case "`echo IJ | od -x 2>/dev/null`" in
    *C9D1*|*c9d1*)
  echo "Hey, this might be EBCDIC." >&4
  if test "X$up" = X -o "X$low" = X; then
     case "`echo IJ | \
   LC_ALL=C $tr '[A-IJ-RS-Z]' '[a-ij-rs-z]' 2>/dev/null`" in
     ij) up='[A-IJ-RS-Z]'
         low='[a-ij-rs-z]'
   ;;
     esac
  fi
  if test "X$up" = X -o "X$low" = X; then
     case "`echo IJ | LC_ALL=C $tr A-IJ-RS-Z a-ij-rs-z 2>/dev/null`" in
     ij) up='A-IJ-RS-Z'
         low='a-ij-rs-z'
   ;;
     esac
  fi
  ;;
    esac
 fi
esac
case "`echo IJ | LC_ALL=C $tr \"$up\" \"$low\" 2>/dev/null`" in
ij)
   echo "Using $up and $low to convert case." >&4
   ;;
*)
   echo "I don't know how to translate letters from upper to lower case." >&4
   echo "Your tr is not acting any way I know of." >&4
    exit 1
   ;;
```

```
esac
: set up the translation script tr, must be called with ./tr of course
cat >tr <<EOSC
$startsh
case "\$1\$2" in
'[A-Z][a-z]') LC_ALL=C exec $tr '$up' '$low';;
'[a-z][A-Z]') LC_ALL=C exec $tr '$low' '$up';;
esac
LC_ALL=C exec $tr "\$@"
EOSC
chmod +x tr
$eunicefix tr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Tr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: lib.U,v $
?RCS: Revision 3.0.1.3  1995/09/25  09:16:47  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:38:08  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:27:40  ram
?RCS: patch32: now uses installation prefix to set the default
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lib libexp: Getfile
 Loc Oldconfig Prefixit Prefixup prefixexp
?MAKE: -pick add $@ %<
?Y:TOP
?S:lib:
?S: This variable holds the name of the directory in which the user wants
?S: to put public library files for the package in question.  It is most
```

```
?S: often a local directory such as /usr/local/lib. Programs using this
?S: variable must be prepared to deal with filename expansion.
?S:.
?S:libexp:
?S: This variable is the same as the lib variable, but is filename expanded
?S: at configuration time, for convenient use in your makefiles.
?S:.
: determine where public libraries go
set lib lib
eval $prefixit
case "$lib" in
")
 dflt=`./loc . "." $prefixexp/lib /usr/local/lib /usr/lib /lib`
 set dflt
 eval $prefixup
 ;;
*)  dflt="$lib";;
esac
echo " "
fn=d~
rp='Where do you want to put the public libraries?'
. ./getfile
lib="$ans"
libexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/lib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_signbit: nvtype Compile Setvar cat run rm_try echo n c i_sunmath
?MAKE: -pick add $@ %<
?S:d_signbit:
?S: This variable conditionally defines the HAS_SIGNBIT symbol, which
?S: indicates to the C program that the signbit() routine is available
?S: and safe to use with perl's intern NV type.
?S:.
?C:HAS_SIGNBIT:
?C: This symbol, if defined, indicates that the signbit routine is
?C: available to check if the given number has the sign bit set.
?C: This should include correct testing of -0.0.  This will only be set
?C: if the signbit() routine is safe to use with the NV type used internally
?C: in perl.  Users should call Perl_signbit(), which will be #defined to
```

```
?C: the system's signbit() function or macro if this symbol is defined.
?C:.
?H:#$d_signbit
 HAS_SIGNBIT  /**/
?H:.
?F:!try
?LINT:set d_signbit
: see if signbit exists
$echo $n "Checking to see if you have signbit() available to work on $nvtype... $c" >&4
$cat >try.c <<EOCP
#$i_sunmath I_SUNMATH
#include <math.h>
#ifdef I_SUNMATH  /* Solaris special math library */
#  include <sunmath.h>
#endif
#define NV $nvtype
int main(int argc, char **argv)
{
   NV x = 0.0;
   NV y = -1.0;
   if ((signbit(x) == 0) && (signbit(y) != 0))
 return 0;
   else
 return 1;
}
EOCP
val="$undef"
set try
if eval $compile; then
   if $run ./try; then
       $echo "Yes." >&4
 val="$define"
   else
       $echo "Signbit seems to be available, but doesn't work as I expected."
       $echo "I won't use it." >&4
 val="$undef"
   fi
else
   $echo "Nope." >&4
   dflt="$undef"
fi
set d_signbit
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_signbit.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: byteorder.U,v 3.0.1.2 1997/02/28 15:24:55 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: byteorder.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:24:55  ram
?RCS: patch61: no longer ask the user if the test runs ok
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:02:58  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:28  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:byteorder: cat Myread Oldconfig Loc Compile rm_try run \
 multiarch uvtype uvsize i_stdlib
?MAKE: -pick add $@ %<
?S:byteorder:
?S: This
 variable holds the byte order in a UV. In the following,
?S: larger digits indicate more significance.  The variable byteorder
?S: is either 4321 on a big-endian machine, or 1234 on a little-endian,
?S: or 87654321 on a Cray ... or 3412 with weird order !
?S:.
?C:BYTEORDER:
?C: This symbol holds the hexadecimal constant defined in byteorder,
?C: in a UV, i.e. 0x1234 or 0x4321 or 0x12345678, etc...
?C: If the compiler supports cross-compiling or multiple-architecture
?C: binaries, use compiler-defined macros to
?C: determine the byte order.
?C:.
?H:?%<:#if defined(MULTIARCH)
?H:?%<:#  ifdef __LITTLE_ENDIAN__
?H:?%<:#    if LONGSIZE == 4
?H:?%<:#      define BYTEORDER 0x1234
?H:?%<:#    else
?H:?%<:#      if LONGSIZE == 8
?H:?%<:#        define BYTEORDER 0x12345678
?H:?%<:#      endif
?H:?%<:#    endif
```

```
?H:?%<:#  else
?H:?%<:#    ifdef __BIG_ENDIAN__
?H:?%<:#      if LONGSIZE == 4
?H:?%<:#        define BYTEORDER 0x4321
?H:?%<:#      else
?H:?%<:#        if LONGSIZE
 == 8
?H:?%<:#          define BYTEORDER 0x87654321
?H:?%<:#        endif
?H:?%<:#      endif
?H:?%<:#    endif
?H:?%<:#  endif
?H:?%<:#else
?H:?%<:#define BYTEORDER 0x$byteorder /* large digits for MSB */
?H:?%<:#endif
?H:.
?T:xxx_prompt
?F:!try
: check for ordering of bytes in a UV
echo " "
case "$multiarch" in
*$define*)
 $cat <<EOM
You seem to be doing a multiarchitecture build,
skipping the byteorder check.

EOM
 byteorder='ffff'
 ;;
*)
 case "$byteorder" in
 ")
  $cat <<'EOM'
In the following, larger digits indicate more significance.  A big-endian
machine like a Pyramid or a Motorola 680?0 chip will come out to 4321. A
little-endian machine like a Vax or an Intel 80?86 chip would be 1234. Other
machines may have weird orders like 3412.  A Cray will report 87654321,
an Alpha will report 12345678. If the test program works the default is
probably right.
I'm now running the test program...
EOM
  $cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include
```

```
 <sys/types.h>
typedef $uvtype UV;
int main()
{
 int i;
 union {
  UV l;
  char c[$uvsize];
 } u;

 if ($uvsize > 4)
  u.l = (((UV)0x08070605) << 32) | (UV)0x04030201;
 else
  u.l = (UV)0x04030201;
 for (i = 0; i < $uvsize; i++)
  printf("%c", u.c[i]+'0');
 printf("\n");
 exit(0);
}
EOCP
  xxx_prompt=y
  set try
  if eval $compile && $run ./try > /dev/null; then
   dflt=`$run ./try`
   case "$dflt" in
   [1-4][1-4][1-4][1-4]|12345678|87654321)
    echo "(The test program ran ok.)"
    echo "byteorder=$dflt"
    xxx_prompt=n
   ;;
   ????|????????) echo "(The test program ran ok.)" ;;
   *) echo "(The test program didn't run right for some reason.)" ;;
   esac
  else
   dflt='4321'
   cat <<'EOM'
(I can't seem to compile the test program.  Guessing big-endian...)
EOM
  fi
  case "$xxx_prompt" in
  y)
   rp="What is the order of bytes in $uvtype?"
   . ./myread
   byteorder="$ans"
   ;;
  *) byteorder=$dflt
   ;;
  esac
```

```
  ;;
 esac
 $rm_try
 ;;
esac
```

Found in path(s):
*
/opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/byteorder.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: defeditor.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: defeditor.U,v $
?RCS: Revision 3.0.1.1  1995/01/11  15:30:16  ram
?RCS: patch45: can now use the 'vi' variable since path stripping is deferred
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:defeditor: Getfile Oldconfig Loc vi
?MAKE: -pick add $@ %<
?S:defeditor:
?S: This variable contains the eventual value of the DEFEDITOR symbol,
?S: which contains the name of the default editor.
?S:.
?C:DEFEDITOR:
?C: This
 symbol contains the full pathname of the default editor.
?C:.
?H:#define DEFEDITOR "$defeditor"  /**/
?H:.
: determine default editor
echo " "
case "$defeditor" in
")
 case "$vi" in
 */*) dflt="$vi";;
 *) dflt=/usr/ucb/vi;;
```

```
 esac
 ;;
*)  dflt="$defeditor"
 ;;
esac
fn=f/
rp="What is the default editor on your system?"
. ./getfile
defeditor="$ans"
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/defeditor.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysuio.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysuio: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysuio:
?S: This variable conditionally defines the I_SYSUIO symbol, and indicates
?S: whether a C program should include <sys/uio.h>.
?S:.
?C:I_SYSUIO:
?C: This symbol, if defined, indicates that <sys/uio.h> exists and
?C: should be included.
?C:.
?H:#$i_sysuio I_SYSUIO  /**/
?H:.
?LINT:set i_sysuio
: see if this is a sys/uio.h system
set sys/uio.h i_sysuio
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_sysuio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_group.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_group.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:34:52  ram
?RCS: patch61: useless unit dropped.
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:48  ram
?RCS: patch32: created by ADO
?RCS:
?X:
?X: Useless unit dropped.
?X:
?LINT:empty
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_group.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setlnbuf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_setlnbuf.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:11:57  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_setlinebuf: Inlibc
?MAKE: -pick add $@ %<
?S:d_setlinebuf:
?S: This variable conditionally defines the HAS_SETLINEBUF symbol, which
?S: indicates to the C program that the setlinebuf() routine is available
?S: to change stderr or stdout from block-buffered or unbuffered
```

```
 to a
?S: line-buffered mode.
?S:.
?C:HAS_SETLINEBUF :
?C: This symbol, if defined, indicates that the setlinebuf routine is
?C: available to change stderr or stdout from block-buffered or unbuffered
?C: to a line-buffered mode.
?C:.
?H:#$d_setlinebuf HAS_SETLINEBUF  /**/
?H:.
?LINT:set d_setlinebuf
: see if setlinebuf exists
set setlinebuf d_setlinebuf
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setlnbuf.U
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```
?RCS: $Id: d_cbrt.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_cbrt.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_cbrt: Inlibc
?MAKE: -pick add $@ %<
?S:d_cbrt:
?S: This variable conditionally defines the HAS_CBRT symbol, which
?S: indicates to the C program that the cbrt() (cube root) function
?S: is available.
?S:.
?C:HAS_CBRT (CBRT):
?C: This symbol, if defined, indicates that the cbrt() (cube root)
?C: function is available.
?C:.
?H:#$d_cbrt HAS_CBRT /**/
?H:.
?LINT:set
```

```
 d_cbrt
: see if cbrt exists
set cbrt d_cbrt
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_cbrt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sigsetjmp.U,v 3.0.1.1 1997/02/28 15:44:33 ram Exp $
?RCS:
?RCS: Copyright (c) 1996,1998 Andy Dougherty
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS:
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?RCS:
?RCS: $Log: d_sigsetjmp.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:44:33  ram
?RCS: patch61: created
?RCS:
?MAKE:d_sigsetjmp: Compile Setvar cat rm_try run i_stdlib
?MAKE: -pick add $@ %<
?S:d_sigsetjmp:
?S: This variable conditionally defines the HAS_SIGSETJMP symbol,
?S: which
 indicates that the sigsetjmp() routine is available to
?S: call setjmp() and optionally save the process's signal mask.
?S:.
?C:HAS_SIGSETJMP:
?C: This variable indicates to the C program that the sigsetjmp()
?C: routine is available to save the calling process's registers
?C: and stack environment for later use by siglongjmp(), and
?C: to optionally save the process's signal mask.  See
?C: Sigjmp_buf, Sigsetjmp, and Siglongjmp.
?C:.
?C:Sigjmp_buf:
?C: This is the buffer type to be used with Sigsetjmp and Siglongjmp.
?C:.
?C:Sigsetjmp:
?C: This macro is used in the same way as sigsetjmp(), but will invoke
```

```
?C: traditional setjmp() if sigsetjmp isn't available.
?C: See HAS_SIGSETJMP.
?C:.
?C:Siglongjmp:
?C: This macro is used in the same way as siglongjmp(), but will invoke
?C: traditional longjmp() if siglongjmp isn't available.
?C: See HAS_SIGSETJMP.
?C:.
?H:?%<:#$d_sigsetjmp HAS_SIGSETJMP /**/
?H:?%<:#ifdef HAS_SIGSETJMP
?H:?%<:#define Sigjmp_buf sigjmp_buf
?H:?%<:#define Sigsetjmp(buf,save_mask)
 sigsetjmp((buf),(save_mask))
?H:?%<:#define Siglongjmp(buf,retval) siglongjmp((buf),(retval))
?H:?%<:#else
?H:?%<:#define Sigjmp_buf jmp_buf
?H:?%<:#define Sigsetjmp(buf,save_mask) setjmp((buf))
?H:?%<:#define Siglongjmp(buf,retval) longjmp((buf),(retval))
?H:?%<:#endif
?H:.
?W:%<:Sigjmp_buf Sigsetjmp Siglongjmp
?F:!try
?LINT:set d_sigsetjmp
: see if sigsetjmp exists
?X: We can't check for these symbols with Inlibc because sigsetjmp
?X: is (sometimes? always?) a macro under GCC
echo " "
case "$d_sigsetjmp" in
")
 $cat >try.c <<EOP
#include <setjmp.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
sigjmp_buf env;
int set = 1;
int main()
{
 if (sigsetjmp(env,1))
  exit(set);
 set = 0;
 siglongjmp(env, 1);
 exit(1);
}
EOP
 set try
 if eval $compile; then
```

```
  if $run ./try >/dev/null 2>&1; then
   echo "POSIX sigsetjmp found." >&4
   val="$define"
  else
   $cat >&4 <<EOM
Uh-Oh! You have POSIX sigsetjmp and siglongjmp, but they do not work properly!!
I'll
 ignore them.
EOM
   val="$undef"
  fi
 else
  echo "sigsetjmp not found." >&4
  val="$undef"
 fi
 ;;
*) val="$d_sigsetjmp"
 case "$d_sigsetjmp" in
 $define) echo "POSIX sigsetjmp found." >&4;;
 $undef) echo "sigsetjmp not found." >&4;;
 esac
 ;;
esac
set d_sigsetjmp
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_sigsetjmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getnbyad.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getnbyname: Inlibc
?MAKE: -pick add $@ %<
?S:d_getnbyname:
?S: This variable conditionally defines the HAS_GETNETBYNAME symbol, which
?S: indicates to the C program that the getnetbyname() routine is available
?S: to look up networks by their names.
?S:.
?C:HAS_GETNETBYNAME:
?C: This symbol, if defined, indicates that the getnetbyname() routine is
```

```
?C: available to look up networks by their names.
?C:.
?H:#$d_getnbyname HAS_GETNETBYNAME  /**/
?H:.
?LINT:set d_getnbyname
: see if getnetbyname exists
set getnetbyname d_getnbyname
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_getnbynm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_msghdr_s: Hasstruct i_systypes d_socket i_sysuio Setvar
?MAKE: -pick add $@ %<
?S:d_msghdr_s:
?S: This variable conditionally defines the HAS_STRUCT_MSGHDR symbol,
?S: which indicates that the struct msghdr is supported.
?S:.
?C:HAS_STRUCT_MSGHDR:
?C: This symbol, if defined, indicates that the struct msghdr
?C: is supported.
?C:.
?H:#$d_msghdr_s HAS_STRUCT_MSGHDR /**/
?H:.
?LINT:set d_msghdr_s
: Check for msghdr_s
echo " "
echo "Checking to see if your system supports struct msghdr..." >&4
set d_msghdr_s msghdr $i_systypes sys/types.h $d_socket sys/socket.h $i_sysuio sys/uio.h
eval $hasstruct
case "$d_msghdr_s" in
"$define")      echo "Yes, it does."   ;;
*)              echo "No, it doesn't."
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_msghdr_s.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getwd.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getwd.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:18  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getwd: Csym Setvar
?MAKE: -pick add $@ %<
?S:d_getwd:
?S: This variable conditionally defines HAS_GETWD if getwd() is
?S: available to get working directory. If not, you should
?S: probably use getcwd().
?S:.
?C:HAS_GETWD (GETWD):
?C: This symbol, if defined, indicates that the getwd routine is
?C: available to get working directory.
 If not, you should
?C: probably use getcwd().
?C:.
?H:#$d_getwd HAS_GETWD  /**/
?H:.
?LINT:set d_getwd
: see if getwd exists
echo " "
if set getwd val -f d_getwd; eval $csym; $val; then
 echo 'getwd() found.' >&4
 val="$define"
else
 echo 'getwd() not found. Assuming getcwd() exists.' >&4
 val="$undef"
fi
set d_getwd
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getwd.U

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rename.C,v 3.0.1.1 1994/01/24 13:58:42 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
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*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* $Log: rename.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:42  ram
* patch16: created
*
*/
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/lib/C/fake/rename.C
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_difftime.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_difftime.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:31  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_difftime: Inlibc
?MAKE: -pick add $@ %<
?S:d_difftime:
?S: This variable conditionally defines the HAS_DIFFTIME symbol, which
?S: indicates to the C program that the difftime() routine is available.
?S:.
?C:HAS_DIFFTIME :
?C: This symbol, if defined, indicates that
```

```
 the difftime routine is
?C: available.
?C:.
?H:#$d_difftime HAS_DIFFTIME  /**/
?H:.
?LINT:set d_difftime
: see if difftime exists
set difftime d_difftime
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_difftime.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Extract.U,v 3.0.1.2 1997/02/28 14:58:52 ram Exp $
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Extract.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  14:58:52  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:51:46  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which can be doted in order to extract
?X: .SH files with variable substitutions.
?X:
?X: When running
 Configure from a remote directory ($src is not '.'),
?X: then the files will be created in that directory, so beware!
?X:
?MAKE:Extract: src
?MAKE: -pick add $@ %<
?F:./extract
?T:PERL_CONFIG_SH dir file name create mkdir_p
: script used to extract .SH files with variable substitutions
```

```
cat >extract <<'EOS'
PERL_CONFIG_SH=true
echo "Doing variable substitutions on .SH files..."
if test -f MANIFEST; then
 set x `awk '{print $1}' < MANIFEST | grep '\.SH$'`
else
 echo "(Looking for .SH files under the source directory.)"
 set x `(cd "$src"; find . -name "*.SH" -print)`
fi
shift
case $# in
0) set x `(cd "$src"; echo *.SH)`; shift;;
esac
if test ! -f "$src/$1"; then
 shift
fi
?X: script to emulate mkdir -p
mkdir_p='
name=$1;
create="";
while test $name; do
 if test ! -d "$name"; then
  create="$name $create";
  name=`echo $name | sed -e "s|^[^/]*$||"`;
  name=`echo $name | sed -e "s|\(.*\)/.*|\1|"`;
 else
  name="";
 fi;
done;
for file in $create; do
 mkdir $file;
done
'
for file in $*;
 do
 case "$src" in
 ".")
  case "$file" in
  */*)
   dir=`expr X$file : 'X\(.*\)/'`
   file=`expr X$file : 'X.*/\(.*\)'`
   (cd "$dir" && . ./$file)
   ;;
  *)
   . ./$file
   ;;
  esac
  ;;
```

```
 *)
?X:
?X: When running Configure remotely ($src is not '.'), we cannot source
?X: the files directly, since that would wrongly cause the extraction
?X: where the source lie instead of withing the current directory. Therefore,
?X: we need to 'sh <file' then, which is okay since they will source the
?X: existing config.sh file. It's not possible to use:
?X:  ../src/Configure -S -O -Dsomething
?X: unfortunately since no new config.sh with the -Dsomething override
?X: will be created before running the .SH files. A minor buglet.
?X:
?X: Note that we must create the directory hierarchy ourselves if it does
?X: not exist already, and that is done through a shell emulation of the
?X: 'mkdir -p' command. We don't want to use the $installdir metaconfig
?X: symbol here since that would require too much to
 be configured for
?X: this simple extraction task that may happen quickly with 'Configure -S'.
?X:  -- RAM, 18/03/96
?X:
  case "$file" in
  */*)
   dir=`expr X$file : 'X\(.*\)/'`
   file=`expr X$file : 'X.*/\(.*\)'`
   (set x $dir; shift; eval $mkdir_p)
   sh <"$src/$dir/$file"
   ;;
  *)
   sh <"$src/$file"
   ;;
  esac
  ;;
 esac
done
if test -f "$src/config_h.SH"; then
 if test ! -f config.h; then
 : oops, they left it out of MANIFEST, probably, so do it anyway.
 . "$src/config_h.SH"
 fi
fi
EOS
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Extract.U
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```
?RCS: $Id$
?RCS:
```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libpth.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  16:08:49  ram
?RCS: patch61: new loclibpth variable
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:31:30  ram
?RCS: patch45: call ./mips instead of just mips (WED)
?RCS:
?RCS: Revision 3.0.1.4  1994/08/29  16:29:15  ram
?RCS: patch32: added /lib/pa1.1 for HP-UX specially tuned PA-RISC libs (ADO)
?RCS: patch32: fixed information message, making it clearer (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:03:54  ram
?RCS: patch30: added /usr/shlib to
 glibpth for shared-only libraries
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:26:57  ram
?RCS: patch27: fixed a typo (libpth -> glibpth)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:07:53  ram
?RCS: patch23: now asks for library directories to be searched (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit initializes the path for C library lookup.
?X:
?MAKE:libpth glibpth xlibpth plibpth loclibpth: \
 usrinc incpath test cat Myread Oldconfig
?MAKE: -pick add $@ %<
?S:libpth:
?S: This variable holds the general path (space-separated) used to find
?S: libraries. It is intended to be used by other units.
?S:.
?S:glibpth:
?S: This variable holds the general path (space-separated) used to
?S: find libraries.  It may contain directories that do not exist on
?S: this platform, libpth is the cleaned-up version.
?S:.
?S:xlibpth:
```

```
?S: This variable holds extra path (space-separated) used to find
?S: libraries on this platform,
 for example CPU-specific libraries
?S: (on multi-CPU platforms) may be listed here.
?S:.
?S:loclibpth:
?S: This variable holds the paths (space-separated) used to find local
?S: libraries.  It is prepended to libpth, and is intended to be easily
?S: set from the command line.
?S:.
?S:plibpth:
?S: Holds the private path used by Configure to find out the libraries.
?S: Its value is prepend to libpth. This variable takes care of special
?S: machines, like the mips.  Usually, it should be empty.
?S:.
?T: xxx dlist
?LINT:use usrinc
?INIT:: change the next line if compiling for Xenix/286 on Xenix/386
?INIT:xlibpth='/usr/lib/386 /lib/386'
?INIT:: Possible local library directories to search.
?INIT:loclibpth="/usr/local/lib /opt/local/lib /usr/gnu/lib"
?INIT:loclibpth="$loclibpth /opt/gnu/lib /usr/GNU/lib /opt/GNU/lib"
?INIT:
?INIT:: general looking path for locating libraries
?INIT:glibpth="/lib /usr/lib $xlibpth"
?INIT:glibpth="$glibpth /usr/ccs/lib /usr/ucblib /usr/local/lib"
?X: /shlib
 is for Digital Unix 4.0
?X: /usr/shlib is for OSF/1 systems.
?INIT:test -f /usr/shlib/libc.so && glibpth="/usr/shlib $glibpth"
?INIT:test -f /shlib/libc.so     && glibpth="/shlib $glibpth"
?INIT:
?INIT:: Private path used by Configure to find libraries.  Its value
?INIT:: is prepended to libpth. This variable takes care of special
?INIT:: machines, like the mips.  Usually, it should be empty.
?INIT:plibpth=''
?INIT:
: Set private lib path
case "$plibpth" in
'') if ./mips; then
?X: on mips, we DO NOT want /lib, and we want $incpath/usr/lib
  plibpth="$incpath/usr/lib /usr/local/lib /usr/ccs/lib"
 fi;;
esac
case "$libpth" in
' ') dlist='';;
'') dlist="$loclibpth $plibpth $glibpth";;
*) dlist="$libpth";;
```

```
esac

: Now check and see which directories actually exist, avoiding duplicates
libpth=''
for xxx in $dlist
do
   if $test -d $xxx; then
  case " $libpth " in
  *" $xxx "*) ;;
  *) libpth="$libpth $xxx";;
  esac
   fi
done
$cat <<'EOM'

Some systems have incompatible or broken versions
 of libraries.  Among
the directories listed in the question below, please remove any you
know not to be holding relevant libraries, and add any that are needed.
Say "none" for none.

EOM
case "$libpth" in
'') dflt='none';;
*)
?X: strip leading space
 set X $libpth
 shift
 dflt=${1+"$@"}
 ;;
esac
rp="Directories to use for library searches?"
. ./myread
case "$ans" in
none) libpth=' ';;
*) libpth="$ans";;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/libpth.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_expm1: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_expm1:
?S: This variable conditionally defines the HAS_EXPM1 symbol, which
?S: indicates to the C program that the expm1() routine is available.
?S:.
?C:HAS_EXPM1:
?C: This symbol, if defined, indicates that the expm1 routine is
?C: available to do the exp(x) - 1 when x is near 1 function.
?C:.
?H:#$d_expm1 HAS_EXPM1  /**/
?H:.
?LINT:set d_expm1
: see if expm1 exists
set expm1 d_expm1
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_expm1.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: siteprefix.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: siteprefix.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:siteprefix siteprefixexp +oldsiteprefix: Getfile Loc Oldconfig cat package prefix
?MAKE: -pick add $@ %<
?S:siteprefix:
?S: This variable holds the full absolute path of the directory below
?S: which the user will install add-on packages.
?S: See INSTALL for usage and examples.
?S:.
?S:siteprefixexp:
?S: This variable holds the full absolute path of the
 directory below
?S: which the user will install add-on packages.  Derived from siteprefix.
?S:.
?S:oldsiteprefix:
?S: This variable is set non-null if the siteprefix was previously defined
```

```
?S: and gets set to a new value. Used internally by Configure only.
?S:.
: Set the siteprefix variables
$cat <<EOM

After $package is installed, you may wish to install various
add-on modules and utilities.  Typically, these add-ons will
be installed under $prefix with the rest
of this package.  However, you may wish to install such add-ons
elsewhere under a different prefix.

If you do not wish to put everything under a single prefix, that's
ok.  You will be prompted for the individual locations; this siteprefix
is only used to suggest the defaults.

The default should be fine for most people.

EOM
fn=d~+
rp='Installation prefix to use for add-on modules and utilities?'
: XXX Here might be another good place for an installstyle setting.
case "$siteprefix" in
") dflt=$prefix ;;
*)  dflt=$siteprefix
 ;;
esac
. ./getfile
: XXX Prefixit unit does not yet support siteprefix and vendorprefix
oldsiteprefix=''
case "$siteprefix" in
") ;;
*) case "$ans" in
 "$prefix") ;;
 *) oldsiteprefix="$prefix";;
 esac
 ;;
esac
siteprefix="$ans"
siteprefixexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/siteprefix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
```

```
?MAKE:d_llround: Inlibc
?MAKE: -pick add $@ %<
?S:d_llround:
?S: This variable conditionally defines the HAS_LLROUND symbol, which
?S: indicates to the C program that the llround() routine is available
?S: to return the long long value nearest to x.
?S:.
?C:HAS_LLROUND:
?C: This symbol, if defined, indicates that the llround routine is
?C: available to return the nearest long long value.
?C:.
?H:#$d_llround HAS_LLROUND  /**/
?H:.
?LINT:set d_llround
: see if llround exists
set llround d_llround
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_llround.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: orderlib.U,v 3.0.1.4 1997/02/28 16:18:18 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: orderlib.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  16:18:18  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: likewise for .o replaced by $_o
?RCS: patch61: now uses the ar located by Loc.U
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:33:04  ram
?RCS: patch45: allows hint files to specify their own value for 'ranlib'
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:26:48  ram
?RCS: patch36: now performs a real small compile for accurate
 checks (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:31:17  ram
?RCS: patch32: use cc variable instead of hardwired 'cc' in 1st compile
```

```
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:orderlib ranlib: Loc ar cat test rm +cc +ccflags +ldflags +libs i_stdlib _a _o run
?MAKE: -pick add $@ %<
?S:orderlib:
?S: This variable is "true" if the components of libraries must be ordered
?S: (with `lorder $* | tsort`) before placing them in an archive.  Set to
?S: "false" if ranlib or ar can generate random libraries.
?S:.
?S:ranlib:
?S: This variable is set to the pathname of the ranlib program, if it is
?S: needed to generate random libraries.  Set to ":" if ar can generate
?S: random libraries or if random libraries are not supported
?S:.
?F:!foobar
: see if ar generates random libraries by itself
echo " "
echo "Checking how to generate random libraries on your machine..." >&4
?X: Some systems (like MIPS) complain when running
 ar... Others like Ultrix
?X: need an explicit 'ar ts' to add the table of contents.
?X: Still others like Linux run ar ts successfully, but still need ranlib.
?X: This set of tests seems the minimum necessary to check out Linux.
?X: We need to explicitly put the entries in out-of-order so that Sun's ld
?X: will fail.  (Otherwise it complains, but gives an exit status of 0.)
echo 'int bar1() { return bar2(); }' > bar1.c
echo 'int bar2() { return 2; }' > bar2.c
$cat > foo.c <<EOP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() { printf("%d\n", bar1()); exit(0); }
EOP
$cc $ccflags -c bar1.c >/dev/null 2>&1
$cc $ccflags -c bar2.c >/dev/null 2>&1
$cc $ccflags -c foo.c >/dev/null 2>&1
$ar rc bar$_a bar2$_o bar1$_o >/dev/null 2>&1
if $cc -o foobar $ccflags $ldflags foo$_o bar$_a $libs > /dev/null 2>&1 &&
 $run ./foobar >/dev/null 2>&1; then
 echo "$ar appears to generate random libraries itself."
 orderlib=false
 if [ "X$ranlib" = "X" ]; then
     ranlib=":"
 fi
elif
```

```
 $ar s bar$_a >/dev/null 2>&1 &&
 $cc -o foobar $ccflags $ldflags foo$_o bar$_a $libs > /dev/null 2>&1 &&
 $run ./foobar >/dev/null 2>&1; then
  echo "a table of contents needs to be added with '$ar s'."
  orderlib=false
  ranlib="$ar s"
elif $ar ts bar$_a >/dev/null 2>&1 &&
 $cc -o foobar $ccflags $ldflags foo$_o bar$_a $libs > /dev/null 2>&1 &&
 $run ./foobar >/dev/null 2>&1; then
  echo "a table of contents needs to be added with '$ar ts'."
  orderlib=false
  ranlib="$ar ts"
else
?X: Allow hints to specify their own ranlib "script". For instance, on
?X: some NeXT machines, the timestamp put by ranlib is not correct, and this
?X: may raise tedious recompiles for nothing. Therefore, NeXT may add the
?X: ranlib='sleep 5; /bin/ranlib' line in their hints to "fix" that.
?X: (reported by Andreas Koenig <k@franz.ww.tu-berlin.de>)
 case "$ranlib" in
 :) ranlib=";;
 ")
  ranlib=`./loc ranlib X /usr/bin /bin /usr/local/bin`
  $test -f $ranlib || ranlib="
  ;;
 esac
 if $test -n "$ranlib";
 then
  echo "your system has '$ranlib'; we'll use that."
  orderlib=false
 else
  echo "your system doesn't seem to support random libraries"
  echo "so we'll use lorder and tsort to order the libraries."
  orderlib=true
  ranlib=":"
 fi
fi
$rm -f foo* bar*
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/orderlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sitebin.U,v $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sitebin.U,v $
?RCS:
?MAKE:sitebin sitebinexp installsitebin : Getfile Oldconfig \
 Setprefixvar siteprefix
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitebin=''
?S:sitebin:
?S: This variable holds the name of the directory in which the user wants
?S: to put add-on publicly executable files for the package in question.  It
?S: is most often a local directory such as /usr/local/bin. Programs using
?S: this variable must be prepared to deal with ~name substitution.
?S: The standard distribution will put nothing
 in this directory.
?S: After perl has been installed, users may install their own local
?S: executables in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitebinexp=''
?S:sitebinexp:
?S: This is the same as the sitebin variable, but is filename expanded at
?S: configuration time, for use in your makefiles.
?S:.
?D:installsitebin=''
?S:installsitebin:
?S: This variable is usually the same as sitebinexp, unless you are on
?S: a system running AFS, in which case they may differ slightly. You
?S: should always use this variable within your makefiles for portability.
?S:.
?LINT:change prefixvar
?LINT:set installsitebin
?LINT:set sitebin
?LINT:set sitebinexp
: determine where add-on public executables go
case "$sitebin" in
'') dflt=$siteprefix/bin ;;
*) dflt=$sitebin ;;
esac
fn=d~
rp='Pathname where the add-on public executables should be installed?'
. ./getfile
prefixvar=sitebin
```

. ./setprefixvar

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/sitebin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Tye McQueen <tye@metronet.com>
?RCS:
?RCS: $Log: d_stdstdio.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:46:32  ram
?RCS: patch61: merged with perl5's unit
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  14:06:54  ram
?RCS: patch56: typo fix on ?C: line for FILE_bufsiz
?RCS: patch56: fixed unbalanced parenthesis (ADO)
?RCS: patch56: check whether FILE_cnt and FILE_ptr can be assigned to (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1995/05/12  12:12:11  ram
?RCS: patch54: complete rewrite by Tye McQueen
 to fit modern systems
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_stdstdio d_stdiobase stdio_ptr stdio_cnt stdio_base \
 stdio_bufsiz d_stdio_cnt_lval d_stdio_ptr_lval stdio_filbuf: cat \
 +cc +ccflags contains +ldflags +libs rm_try \
 Setvar Findhdr Oldconfig
?MAKE: -pick add $@ %<
?S:d_stdstdio:
?S: This variable conditionally defines USE_STDIO_PTR if this system
?S: has a FILE structure declaring usable _ptr and _cnt fields (or
?S: equivalent) in stdio.h.
?S:.
?S:stdio_ptr:
?S: This variable defines how, given a FILE pointer, fp, to access the
?S: _ptr field (or equivalent) of stdio.h's FILE structure.  This will
```

?S: be used to define the macro FILE_ptr(fp).
?S:.
?S:d_stdio_ptr_lval:
?S: This variable conditionally defines STDIO_PTR_LVALUE if the
?S: FILE_ptr macro can be used as an lvalue.
?S:.
?S:stdio_cnt:
?S: This variable defines how, given a FILE pointer, fp, to access the
?S: _cnt field (or equivalent) of
stdio.h's FILE structure. This will
?S: be used to define the macro FILE_cnt(fp).
?S:.
?S:d_stdio_cnt_lval:
?S: This variable conditionally defines STDIO_CNT_LVALUE if the
?S: FILE_cnt macro can be used as an lvalue.
?S:.
?S:stdio_filbuf:
?S: This variable defines how, given a FILE pointer, fp, to tell
?S: stdio to refill it's internal buffers (?). This will
?S: be used to define the macro FILE_filbuf(fp).
?S:.
?S:d_stdiobase:
?S: This variable conditionally defines USE_STDIO_BASE if this system
?S: has a FILE structure declaring a usable _base field (or equivalent)
?S: in stdio.h.
?S:.
?S:stdio_base:
?S: This variable defines how, given a FILE pointer, fp, to access the
?S: _base field (or equivalent) of stdio.h's FILE structure. This will
?S: be used to define the macro FILE_base(fp).
?S:.
?S:stdio_bufsiz:
?S: This variable defines how, given a FILE pointer, fp, to determine
?S: the number of bytes store in the I/O buffer pointer to by the
?S: _base field (or equivalent) of stdio.h's
FILE structure. This will
?S: be used to define the macro FILE_bufsiz(fp).
?S:.
?C:USE_STDIO_PTR ~ d_stdstdio (USE_STD_STDIO STDSTDIO):
?C: This symbol is defined if the _ptr and _cnt fields (or similar)
?C: of the stdio FILE structure can be used to access the stdio buffer
?C: for a file handle. If this is defined, then the FILE_ptr(fp)
?C: and FILE_cnt(fp) macros will also be defined and should be used
?C: to access these fields.
?C:.
?C:FILE_ptr:
?C: This macro is used to access the _ptr field (or equivalent) of the
?C: FILE structure pointed to by its argument. This macro will always be

```
?C: defined if USE_STDIO_PTR is defined.
?C:.
?C:STDIO_PTR_LVALUE:
?C: This symbol is defined if the FILE_ptr macro can be used as an
?C: lvalue.
?C:.
?C:FILE_cnt:
?C: This macro is used to access the _cnt field (or equivalent) of the
?C: FILE structure pointed to by its argument. This macro will always be
?C: defined if USE_STDIO_PTR is defined.
?C:.
?C:STDIO_CNT_LVALUE:
?C: This symbol is defined
 if the FILE_cnt macro can be used as an
?C: lvalue.
?C:.
?C:FILE_filbuf:
?C: This macro is used to access the internal stdio _filbuf function
?C: (or equivalent), if STDIO_CNT_LVALUE and STDIO_PTR_LVALUE
?C: are defined.  It is typically either _filbuf or __filbuf.
?C: This macro will only be defined if both STDIO_CNT_LVALUE and
?C: STDIO_PTR_LVALUE are defined.
?C:.
?H:?d_stdstdio:#$d_stdstdio USE_STDIO_PTR  /**/
?H:?d_stdstdio:#ifdef USE_STDIO_PTR
?H:#define FILE_ptr(fp) $stdio_ptr
?H:#$d_stdio_ptr_lval STDIO_PTR_LVALUE   /**/
?H:#define FILE_cnt(fp) $stdio_cnt
?H:#$d_stdio_cnt_lval STDIO_CNT_LVALUE   /**/
?H:?d_stdstdio:#if defined(STDIO_PTR_LVALUE) && defined(STDIO_CNT_LVALUE)
?H:#define FILE_filbuf(fp) $stdio_filbuf   /**/
?H:?d_stdstdio:#endif
?H:?d_stdstdio:#endif
?H:.
?W:d_stdstdio:FILE_ptr FILE_cnt FILE_filbuf
?C:USE_STDIO_BASE ~ d_stdiobase:
?C: This symbol is defined if the _base field (or similar) of the
?C: stdio FILE structure can be used to access the stdio buffer
 for
?C: a file handle.  If this is defined, then the FILE_base(fp) macro
?C: will also be defined and should be used to access this field.
?C: Also, the FILE_bufsiz(fp) macro will be defined and should be used
?C: to determine the number of bytes in the buffer.  USE_STDIO_BASE
?C: will never be defined unless USE_STDIO_PTR is.
?C:.
?C:FILE_base:
?C: This macro is used to access the _base field (or equivalent) of the
?C: FILE structure pointed to by its argument. This macro will always be
```

```
?C: defined if USE_STDIO_BASE is defined.
?C:.
?C:FILE_bufsiz:
?C: This macro is used to determine the number of bytes in the I/O
?C: buffer pointed to by _base field (or equivalent) of the FILE
?C: structure pointed to its argument. This macro will always be defined
?C: if USE_STDIO_BASE is defined.
?C:.
?H:?d_stdiobase:#$d_stdiobase USE_STDIO_BASE  /**/
?H:?d_stdiobase:#ifdef USE_STDIO_BASE
?H:#define FILE_base(fp) $stdio_base
?H:#define FILE_bufsiz(fp) $stdio_bufsiz
?H:?d_stdiobase:#endif
?H:.
?W:d_stdiobase:FILE_base
 FILE_bufsiz
?LINT:set d_stdstdio d_stdiobase
?T:ptr_lval cnt_lval filbuf xxx
?F:!try
: see if _ptr and _cnt from stdio act std
echo " "
if $contains '_IO_fpos_t' `./findhdr stdio.h` >/dev/null 2>&1 ; then
 echo "(Looks like you have stdio.h from Linux.)"
 case "$stdio_ptr" in
 ") stdio_ptr='((fp)->_IO_read_ptr)'
  ptr_lval=$define
  ;;
 *) ptr_lval=$d_stdio_ptr_lval;;
 esac
 case "$stdio_cnt" in
 ") stdio_cnt='((fp)->_IO_read_end - (fp)->_IO_read_ptr)'
  cnt_lval=$undef
  ;;
 *) cnt_lval=$d_stdio_cnt_lval;;
 esac
 case "$stdio_base" in
 ") stdio_base='((fp)->_IO_read_base)';;
 esac
 case "$stdio_bufsiz" in
 ") stdio_bufsiz='((fp)->_IO_read_end - (fp)->_IO_read_base)';;
 esac
else
 case "$stdio_ptr" in
 ") stdio_ptr='((fp)->_ptr)'
  ptr_lval=$define
  ;;
 *) ptr_lval=$d_stdio_ptr_lval;;
 esac
```

```
 case "$stdio_cnt" in
 ") stdio_cnt='((fp)->_cnt)'
  cnt_lval=$define
  ;;
 *) cnt_lval=$d_stdio_cnt_lval;;
 esac
 case "$stdio_base" in
 ") stdio_base='((fp)->_base)';;
 esac
 case
 "$stdio_bufsiz" in
 ") stdio_bufsiz='((fp)->_cnt + (fp)->_ptr - (fp)->_base)';;
 esac
fi
: test whether _ptr and _cnt really work
echo "Checking how std your stdio is..." >&4
$cat >try.c <<EOP
#include <stdio.h>
#define FILE_ptr(fp) $stdio_ptr
#define FILE_cnt(fp) $stdio_cnt
int main() {
 FILE *fp = fopen("try.c", "r");
 char c = getc(fp);
 if (
  18 <= FILE_cnt(fp) &&
  strncmp(FILE_ptr(fp), "include <stdio.h>\n", 18) == 0
 )
  exit(0);
 exit(1);
}
EOP
val="$undef"
if $cc $ccflags $ldflags -o try try.c $libs >/dev/null 2>&1; then
 if ./try; then
  echo "Your stdio acts pretty std."
  val="$define"
 else
  echo "Your stdio isn't very std."
 fi
else
 echo "Your stdio doesn't appear very std."
fi
$rm_try
set d_stdstdio
eval $setvar

@if STDIO_PTR_LVALUE || d_stdio_ptr_lval
: Can _ptr be used as an lvalue?
```

```
?X: Only makes sense if we have a known stdio implementation.
case "$d_stdstdio$ptr_lval" in
$define$define) val=$define ;;
*) val=$undef ;;
esac
set d_stdio_ptr_lval
eval
 $setvar

@end
@if STDIO_CNT_LVALUE || d_stdio_cnt_lval
: Can _cnt be used as an lvalue?
?X: Only makes sense if we have a known stdio implementation.
case "$d_stdstdio$cnt_lval" in
$define$define) val=$define ;;
*) val=$undef ;;
esac
set d_stdio_cnt_lval
eval $setvar

@end
@if FILE_filbuf
: How to access the stdio _filbuf or __filbuf function.
: If this fails, check how the getc macro in stdio.h works.
case "${d_stdio_ptr_lval}${d_stdio_cnt_lval}" in
${define}${define})
 : Try hint value, if any, then _filbuf, __filbuf, _fill, then punt.
 : _fill is for OS/2.
 xxx='notok'
 for filbuf in $stdio_filbuf '_filbuf(fp)' '__filbuf(fp) ' '_fill(fp)' ; do
  $cat >try.c <<EOP
#include <stdio.h>
#define FILE_ptr(fp) $stdio_ptr
#define FILE_cnt(fp) $stdio_cnt
#define FILE_filbuf(fp) $filbuf
int main() {
 FILE *fp = fopen("try.c", "r");
 int c;
 c = getc(fp);
 c = FILE_filbuf(fp);  /* Just looking for linker errors.*/
 exit(0);
}
EOP
  if $cc $ccflags $ldflags -o try try.c $libs >/dev/null 2>&1 &&
 ./try; then
   echo "Your stdio appears to use $filbuf"
   stdio_filbuf="$filbuf"
   xxx='ok'
```

```
  break
 else
  echo "Hmm.  $filbuf doesn't seem to work."
 fi
 $rm_try
done
case "$xxx" in
notok) echo "I can't figure out how to access _filbuf"
  echo "I'll just have to work around it."
  d_stdio_ptr_lval="$undef"
  d_stdio_cnt_lval="$undef"
  ;;
esac
;;
esac
@end
@if d_stdiobase || USE_STDIO_BASE || FILE_base || FILE_bufsiz
: see if _base is also standard
val="$undef"
case "$d_stdstdio" in
$define)
 $cat >try.c <<EOP
#include <stdio.h>
#define FILE_base(fp) $stdio_base
#define FILE_bufsiz(fp) $stdio_bufsiz
int main() {
 FILE *fp = fopen("try.c", "r");
 char c = getc(fp);
 if (
  19 <= FILE_bufsiz(fp) &&
  strncmp(FILE_base(fp), "#include <stdio.h>\n", 19) == 0
 )
  exit(0);
 exit(1);
}
EOP
 if $cc $ccflags $ldflags -o try try.c $libs > /dev/null 2>&1; then
  if ./try; then
   echo "And its _base field acts std."
   val="$define"
  else
   echo "But its _base field isn't std."
  fi
 else
  echo
 "However, it seems to be lacking the _base field."
 fi
 $rm_try
```

```
 ;;
esac
set d_stdiobase
eval $setvar

@end
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_stdstdio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: maildir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: maildir.U,v $
?RCS: Revision 3.0.1.1  1993/12/15  08:21:56  ram
?RCS: patch15: now also looks under /var/mail for BSD/386
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:maildir maildirexp: Getfile Loc Oldconfig
?MAKE: -pick add $@ %<
?S:maildir:
?S: This variable contains the name of the directory in which mail is
?S: spooled. Programs using this variable must be prepared to deal with
?S: ~name
 substitutions.
?S:.
?S:maildirexp:
?S: This is the same as the maildir variable, but is filename expanded
?S: at configuration time, for programs not willing to deal with it at
?S: run-time.
?S:.
: determine where mail is spooled
case "$maildir" in
") dflt=`./loc . /usr/spool/mail /usr/spool/mail /usr/mail /var/mail`;;
*) dflt="$maildir";;
esac
echo " "
```

```
fn=d~
rp='Where is yet-to-be-read mail spooled?'
. ./getfile
maildir="$ans"
maildirexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/maildir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_memory.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_memory.U,v $
?RCS: Revision 3.0.1.3  1994/06/20  07:01:55  ram
?RCS: patch30: cosmetic changes
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:23:56  ram
?RCS: patch27: modified to avoid spurious Whoa warnings (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:02:25  ram
?RCS: patch23: avoid conflicts with <string.h>
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:22  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_memory: Inhdr strings cppstdin
 cppflags cppminus contains rm Setvar
?MAKE: -pick add $@ %<
?S:i_memory:
?S: This variable conditionally defines the I_MEMORY symbol, and indicates
?S: whether a C program should include <memory.h>.
?S:.
?C:I_MEMORY:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <memory.h>.
?C:.
?H:#$i_memory I_MEMORY  /**/
?H:.
?LINT:set i_memory
```

```
?X:
?X: Unfortunately, the definitions of memory functions sometimes
?X: conflict with those in <string.h>.  We'll assume that if
?X: <string.h> contains memcpy, then we don't need memory.h
?X:
: see if memory.h is available.
val=''
set memory.h val
eval $inhdr

: See if it conflicts with string.h
case "$val" in
$define)
 case "$strings" in
 '') ;;
 *)
  $cppstdin $cppflags $cppminus < $strings > mem.h
  if $contains 'memcpy' mem.h >/dev/null 2>&1; then
   echo " "
   echo "We won't be including <memory.h>."
   val="$undef"
  fi
  $rm -f mem.h
  ;;
 esac
esac
set i_memory
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_memory.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:uidformat: uidsize uidsign ivsize uvsize longsize intsize shortsize \
 ivdformat uvuformat test echo
?MAKE: -pick add $@ %<
?S:uidformat:
?S: This variable contains the format string used for printing a Uid_t.
?S:.
?C:Uid_t_f:
```

```
?C: This symbol defines the format string used for printing a Uid_t.
?C:.
?H:#define Uid_t_f  $uidformat  /**/
?H:.
: Check format string for UID
echo " "
$echo "Checking the format string to be used for uids..." >&4

case "$uidsign" in
-1) if $test X"$uidsize" = X"$ivsize"; then
  uidformat="$ivdformat"
 else
  if $test X"$uidsize" = X"$longsize"; then
   uidformat="'ld'"
  else
   if $test X"$uidsize" = X"$intsize"; then
    uidformat="'d'"
   else
    if $test X"$uidsize"
 = X"$shortsize"; then
     uidformat="'hd'"
    fi
   fi
  fi
 fi
 ;;
*) if $test X"$uidsize" = X"$uvsize"; then
  uidformat="$uvuformat"
 else
  if $test X"$uidsize" = X"$longsize"; then
   uidformat="'lu'"
  else
   if $test X"$uidsize" = X"$intsize"; then
    uidformat="'u'"
   else
    if $test X"$uidsize" = X"$shortsize"; then
     uidformat="'hu'"
    fi
   fi
  fi
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/uidf.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:gccversion gccosandvers gccansipedantic: cat cpp rm +cc \
 Myread Guess Options Oldconfig Loc osname osvers run
?MAKE: -pick add $@ %<
?S:gccversion:
?S: If GNU cc (gcc) is used, this variable holds '1' or '2' to
?S: indicate whether the compiler is version 1 or 2.  This is used in
?S: setting some of the default cflags.  It is set to '' if not gcc.
?S:.
?S:gccosandvers:
?S: If GNU cc (gcc) is used, this variable holds the operating system
?S: and version used to compile gcc.  It is set to '' if not gcc,
?S: or if
 nothing useful can be parsed as the os version.
?S:.
?S:gccansipedantic:
?S: If GNU cc (gcc) is used, this variable will enable (if set) the
?S: -ansi and -pedantic ccflags for building core files (through
?S: cflags script). (See Porting/pumpkin.pod for full description).
?S:.
?D:gccversion=''
?D:gccansipedantic=''
?T:c99_for
?T:flag
?T:gccshortvers
?T:incdir
?T:warn
?F:!try
?LINT:change cpp
?LINT:extern ccflags
?LINT:extern ldflags
?LINT:extern locincpth
?LINT:extern ccname
?LINT:change ccname
?LINT:change locincpth
?LINT:change ccflags
?LINT:set gccansipedantic
```

```
?X: Check if they have gcc in any guise.
: Check if we are using GNU gcc and what its version is
echo " "
echo "Checking for GNU cc in disguise and/or its version number..." >&4
$cat >try.c <<EOM
#include <stdio.h>
int main() {
#if defined(__GNUC__) && !defined(__INTEL_COMPILER)
#ifdef __VERSION__
 printf("%s\n", __VERSION__);
#else
 printf("%s\n", "1");
#endif
#endif
 return(0);
}
EOM
if $cc -o try $ccflags $ldflags try.c; then
 gccversion=`$run
 ./try`
 case "$gccversion" in
 ") echo "You are not using GNU cc." ;;
 *)  echo "You are using GNU cc $gccversion."
     ccname=gcc
     ;;
 esac
else
 echo " "
 echo "*** WHOA THERE!!! ***" >&4
 echo "    Your C compiler \"$cc\" doesn't seem to be working!" >&4
?X: using -K will prevent aborting--maybe they're cross compiling?
 case "$knowitall" in
 ")
 echo "    You'd better start hunting for one and let me know about it." >&4
  exit 1
  ;;
 esac
fi
$rm -f try try.*
case "$gccversion" in
1.*) cpp=`./loc gcc-cpp $cpp $pth` ;;
esac
case "$gccversion" in
") gccosandvers=" ;;
*) gccshortvers=`echo "$gccversion"|sed 's/ .*//'`
  gccosandvers=`$cc -v 2>&1|grep '/specs$'|sed "s!.*/[^-/]*-[^-/]*-\([^-/]*\)/$gccshortvers/specs!\1!"`
  gccshortvers="
  case "$gccosandvers" in
```

```
  $osname) gccosandvers=" ;; # linux gccs seem to have no linux osvers, grr
  $osname$osvers) ;; # looking good
  $osname*) cat <<EOM >&4

*** WHOA THERE!!! ***

   Your gcc has not been
 compiled for the exact release of
   your operating system ($gccosandvers versus $osname$osvers).

   In general it is a good idea to keep gcc synchronized with
   the operating system because otherwise serious problems
   may ensue when trying to compile software, like Perl.

   I'm trying to be optimistic here, though, and will continue.
   If later during the configuration and build icky compilation
   problems appear (headerfile conflicts being the most common
   manifestation), I suggest reinstalling the gcc to match
   your operating system release.

EOM
     ;;
  *) gccosandvers=" ;; # failed to parse, better be silent
  esac
  ;;
esac
case "$ccname" in
") ccname="$cc" ;;
esac

# gcc 3.* complain about adding -Idirectories that they already know about,
# so we will take those off from locincpth.
case "$gccversion" in
3.*)
   echo "main(){}">try.c
   for incdir in $locincpth; do
      warn=`$cc $ccflags -I$incdir -c try.c 2>&1 | \
      grep '^c[cp]p*[01]: warning:
 changing search order '`
      if test "X$warn" != X; then
    locincpth=`echo " $locincpth " | sed "s! $incdir ! !"`
      fi
   done
   $rm -f try try.*
esac

# gcc 4.9 by default does some optimizations that break perl.
# see ticket 121505.
```

```
#
# The -fwrapv disables those optimizations (and probably others,) so
# for gcc 4.9 (and later, since the optimizations probably won't go
# away), add -fwrapv unless the user requests -fno-wrapv, which
# disables -fwrapv, or if the user requests -fsanitize=undefined,
# which turns the overflows -fwrapv ignores into runtime errors.
case "$gccversion" in
4.[3-9].*|4.[1-9][0-9]*|[5-9].*|[1-9][0-9]*)
  case "$ccflags" in
  *-fno-wrapv*|*-fsanitize=undefined*|*-fwrapv*) ;;
  *) ccflags="$ccflags -fwrapv" ;;
  esac
esac

# Really old versions of gcc default to C89 and will error for this code.
# See if the compiler (gcc or otherwise) needs a flag to compile C99 code
# Initialisations in for loops seem to be the particular problem
# (Does
 this syntax conflict with something else that was valid C89?)
# We also add a declaration after a statement to detect whether the compiler
# (or the user supplied -Accflags) consider such declarations to be errors.
# This causes 'Configure with -Accflags="-Werror=declaration-after-statement"'
# to fail hard and early.
#
# Annoyingly -std=c99 will cause gcc to tell glibc not to define prototypes for
# syscall, drand48 etc when including <unistd.h>, which messes up our build.
# I guess we *could* loop round trying -std=c99 first with checks both for the
# prototype found and the code compiling (because -std=gnu99 might do other
# things we don't want, particularly on non-GCC compilers) but
# 1) We would need to check for the prototype first (without any flags)
# 2) We would still end up with most Linux systems either being -std=gnu99
#    or "" (no flag), and so both common options would not rigorously check our
#    portability to other platforms.
# So it doesn't seem worth the complexity
 and chance of different failure.
$cat >try.c <<'EOCP'
int main(int argc, char **argv) {
  argc = argc + 1;
  /* This is deliberately a declaration after a statement. */
  unsigned long long count = 0;
  for (char **p = argv; *p; ++p) {
     ++count;
  }
  return count == 1 ? 0 : argc;
}
EOCP
c99_for=no
for flag in " '-std=gnu99' '-std=c99'; do
```

```
   if $cc -o try $flag $ccflags $ldflags try.c 2>/dev/null && ./try; then
       c99_for="$flag"
       break;
   fi
done
case "$c99_for" in
") echo "Your C compiler doesn't need any special flags to compile C99 code"
   ;;
no) echo >&4 "Your C compiler doesn't seem to be able to compile C99 code"
   rp='Do you really want to continue?'
   dflt='n'
   . ./myread
   case "$ans" in
 [yY]) echo >&4 "Okay, continuing." ;;
 *) exit 1    ;;
   esac
   ;;
*)  echo "Your C compiler needs $c99_for to compile C99 code"
   ccflags="$c99_for $ccflags"
   ;;
esac
$rm -f try try.*
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/gccvers.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: h_sysfile.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: h_sysfile.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:h_sysfile: Nothing
?MAKE: -pick add $@ %<
?S:h_sysfile:
?S: This is variable gets set in various places to tell i_sys_file that
?S: <sys/file.h> should be included.
?S:.
```

```
: Initialize h_sysfile
h_sysfile=false
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/h_sysfile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_accessx: Inlibc
?MAKE: -pick add $@ %<
?S:d_accessx:
?S: This variable conditionally defines the HAS_ACCESSX symbol, which
?S: indicates to the C program that the accessx() routine is available.
?S:.
?C:HAS_ACCESSX :
?C: This symbol, if defined, indicates that the accessx routine is
?C: available to do extended access checks.
?C:.
?H:#$d_accessx HAS_ACCESSX  /**/
?H:.
?LINT:set d_accessx
: see if accessx exists
set accessx d_accessx
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/acl/d_accessx.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_readdir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_readdir.U,v $
```

```
?RCS: Revision 3.0.1.1  1994/05/06  14:46:37  ram
?RCS: patch23: added support for seekdir, telldir and rewinddir (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X: Force checking for <dirent.h> inclusion
?X:INC: i_dirent
?MAKE:d_readdir d_seekdir d_telldir d_rewinddir: Inlibc
?MAKE: -pick add $@ %<
?S:d_readdir:
?S: This variable conditionally defines HAS_READDIR if readdir()
 is
?S: available to read directory entries.
?S:.
?C:HAS_READDIR (READDIR):
?C: This symbol, if defined, indicates that the readdir routine is
?C: available to read directory entries. You may have to include
?C: <dirent.h>. See I_DIRENT.
?C:.
?H:#$d_readdir HAS_READDIR  /**/
?H:.
?S:d_seekdir:
?S: This variable conditionally defines HAS_SEEKDIR if seekdir() is
?S: available.
?S:.
?C:HAS_SEEKDIR:
?C: This symbol, if defined, indicates that the seekdir routine is
?C: available. You may have to include <dirent.h>. See I_DIRENT.
?C:.
?H:#$d_seekdir HAS_SEEKDIR  /**/
?H:.
?S:d_telldir:
?S: This variable conditionally defines HAS_TELLDIR if telldir() is
?S: available.
?S:.
?C:HAS_TELLDIR:
?C: This symbol, if defined, indicates that the telldir routine is
?C: available. You may have to include <dirent.h>. See I_DIRENT.
?C:.
?H:#$d_telldir HAS_TELLDIR  /**/
?H:.
?S:d_rewinddir:
?S: This variable conditionally defines HAS_REWINDDIR if rewinddir() is
?S: available.
?S:.
?C:HAS_REWINDDIR:
?C: This
```

```
 symbol, if defined, indicates that the rewinddir routine is
?C: available. You may have to include <dirent.h>. See I_DIRENT.
?C:.
?H:#$d_rewinddir HAS_REWINDDIR  /**/
?H:.
?LINT:set d_readdir d_seekdir d_telldir d_rewinddir
: see if readdir and friends exist
set readdir d_readdir
eval $inlibc
@if d_seekdir || HAS_SEEKDIR
set seekdir d_seekdir
eval $inlibc
@end
@if d_telldir || HAS_TELLDIR
set telldir d_telldir
eval $inlibc
@end
@if d_rewinddir || HAS_REWINDDIR
set rewinddir d_rewinddir
eval $inlibc
@end
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_readdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:multiarch: osname
?MAKE: -pick add $@ %<
?S:multiarch:
?S: This variable conditionally defines the MULTIARCH symbol
?S: which signifies the presence of multiplatform files.
?S: This is normally set by hints files.
?S:.
?C:MULTIARCH:
?C: This symbol, if defined, signifies that the build
?C: process will produce some binary files that are going to be
```

```
?C: used in a cross-platform environment.  This is the case for
?C: example with the NeXT "fat" binaries that contain executables
?C: for
 several CPUs.
?C:.
?H:#$multiarch MULTIARCH  /**/
?H:.
: Check if is a multiplatform env
case "$osname" in
darwin) multiarch="$define" ;;
esac
case "$multiarch" in
"|[nN]*) multiarch="$undef" ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/a_dvisory/multiarch.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strxfrm_l.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_strxfrm_l.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:12:04  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_strxfrm_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_strxfrm_l:
?S: This variable conditionally defines HAS_STRXFRM_L if strxfrm_l() is
?S: available to transform strings.
?S:.
?C:HAS_STRXFRM_L:
?C: This symbol, if defined, indicates that the strxfrm_l() routine is
?C: available
 to transform strings.
?C:.
?H:#$d_strxfrm_l HAS_STRXFRM_L /**/
```

```
?H:.
?LINT:set d_strxfrm_l
: see if strxfrm_l exists
set strxfrm_l d_strxfrm_l
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strxfrm_l.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: startsh.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: startsh.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:25:31  ram
?RCS: patch61: avoid needless chatter since this is now done very early
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:startsh: sh sharpbang eunicefix
?MAKE: -pick add $@ %<
?S:startsh:
?S: This variable contains the string to put on the front of a shell
?S: script to make sure (hopefully) that it runs with sh and not some
?S: other
 shell.
?S:.
?F:!sharp
: figure out how to guarantee sh startup
?X: Avoid needless chatter since this is now done very early.
?X: echo " "
?X: echo "Checking out how to guarantee sh startup..." >&2
case "$startsh" in
") startsh=${sharpbang}${sh} ;;
*)
?X: echo "Let's see if '$startsh' works..." ;;
esac
cat >sharp <<EOSS
$startsh
```

```
set abc
test "$?abc" != 1
EOSS

chmod +x sharp
$eunicefix sharp
if ./sharp; then
 : echo "Yup, it does."
else
 echo "Hmm... '$startsh' does not guarantee sh startup..."
 echo "You may have to fix up the shell scripts to make sure $sh runs them."
fi
rm -f sharp
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/startsh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fma: Inlibc
?MAKE: -pick add $@ %<
?S:d_fma:
?S: This variable conditionally defines the HAS_FMA symbol, which
?S: indicates to the C program that the fma() routine is available.
?S:.
?C:HAS_FMA:
?C: This symbol, if defined, indicates that the fma routine is
?C: available to do the multiply-add function.
?C:.
?H:#$d_fma HAS_FMA  /**/
?H:.
?LINT:set d_fma
: see if fma exists
set fma d_fma
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fma.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_poll.U,v $
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_langinfo: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_langinfo:
?S: This variable conditionally defines the I_LANGINFO symbol,
?S: and indicates whether a C program should include <langinfo.h>.
?S:.
?C:I_LANGINFO:
?C: This symbol, if defined, indicates that <langinfo.h> exists and
?C: should be included.
?C:.
?H:#$i_langinfo I_LANGINFO  /**/
?H:.
?LINT:set i_langinfo
: see if this is a langinfo.h system
set langinfo.h i_langinfo
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_langinfo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_flexfnam.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_flexfnam.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_flexfnam: cat rm test Setvar
?MAKE: -pick add $@ %<
?S:d_flexfnam:
?S: This variable conditionally defines the FLEXFILENAMES symbol, which
?S: indicates that the system supports filenames longer than 14 characters.
?S:.
?C:FLEXFILENAMES:
?C: This symbol, if defined, indicates that the system supports filenames
?C: longer than 14
```

```
 characters.
?C:.
?H:#$d_flexfnam FLEXFILENAMES  /**/
?H:.
?T:first
?LINT:set d_flexfnam
: see if we can have long filenames
echo " "
?X:
?X: We have to test in both /tmp and . because of NFS (remote server may allow
?X: long filenames while the local filesystem cannot support them). If at least
?X: one of those file systems cannot support long filenames, then we assume the
?X: whole system can't.
?X:
first=123456789abcdef
$rm -f $first
if (echo hi >$first) 2>/dev/null; then
 if $test -f 123456789abcde; then
  echo 'You cannot have filenames longer than 14 characters.  Sigh.' >&4
  val="$undef"
 else
  echo 'You can have filenames longer than 14 characters.'>&4
  val="$define"
 fi
else
 $cat <<'EOM'
You can't have filenames longer than 14 chars.
You can't even think about them!
EOM
 val="$undef"
fi
set d_flexfnam
eval $setvar
$rm -rf 123456789abcde*
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_flexfnam.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_remainder: Inlibc
?MAKE: -pick add $@ %<
?S:d_remainder:
?S: This variable conditionally defines the HAS_REMAINDER symbol, which
?S: indicates to the C program that the remainder() routine is available.
```

```
?S:.
?C:HAS_REMAINDER:
?C: This symbol, if defined, indicates that the remainder routine is
?C: available to return the floating-point remainder.
?C:.
?H:#$d_remainder HAS_REMAINDER  /**/
?H:.
?LINT:set d_remainder
: see if remainder exists
set remainder d_remainder
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_remainder.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?MAKE:run to from targetarch usecrosscompile: src awk cat grep test rm \
 echo sed mkdir cp touch chmod
?MAKE: -pick add $@ %<
?Y:TOP
?S:usecrosscompile:
?S: This variable conditionally defines the USE_CROSS_COMPILE symbol,
?S: and indicates that our package has been cross-compiled.
?S:.
?S:run:
?S: This variable contains the command used by Configure
?S: to copy and execute a cross-compiled executable in the
?S: target host.  Useful and available only during
 the build.
?S: Empty string '' if not cross-compiling.
?S:.
?S:from:
?S: This variable contains the command used by Configure
?S: to copy files from the target host.  Useful and available
?S: only during the build.
```

```
?S: The string ':' if not cross-compiling.
?S:.
?S:to:
?S: This variable contains the command used by Configure
?S: to copy to from the target host.  Useful and available
?S: only during the build.
?S: The string ':' if not cross-compiling.
?S:.
?S:targetarch:
?S: If cross-compiling, this variable contains the target architecture.
?S: If not, this will be empty.
?S:.
?C:USE_CROSS_COMPILE:
?C: This symbol, if defined, indicates that the package is being
?C: cross-compiled.
?C:.
?C:CROSS_TARGET_ARCH:
?C: This symbol, if defined, indicates the target architecture
?C: the package has been cross-compiled to.
?C: Undefined if not a cross-compile.
?C:.
?H:?usecrosscompile:#ifndef USE_CROSS_COMPILE
?H:?usecrosscompile:#$usecrosscompile USE_CROSS_COMPILE /**/
?H:?usecrosscompile:#define
 CROSS_TARGET_ARCH "$targetarch" /**/
?H:?usecrosscompile:#endif
?H:.
?T:croak pwd exe f q i j cwd
?LINT:extern usecrosscompile
?LINT:extern cc
?LINT:extern usrinc
?LINT:change usrinc
?LINT:change ar
?LINT:change nm
?LINT:change ranlib
?LINT:extern targethost
?LINT:extern targetdir
?LINT:change targetdir
?LINT:extern targetuser
?LINT:change targetuser
?LINT:extern targetrun
?LINT:extern targetfrom
?LINT:extern targetto
?LINT:extern targetmkdir
?LINT:change targetrun
?LINT:change targetfrom
?LINT:change targetto
?LINT:change targetmkdir
```

```
?LINT:extern incpth
?LINT:extern libpth
?LINT:change incpth
?LINT:change libpth
?LINT:extern locincpth
?LINT:extern loclibpth
?LINT:change locincpth
?LINT:change loclibpth
?LINT:extern TMPDIR
: setup for possible cross-compilation
run=''
to=:
from=:
usecrosscompile='undef'
targetarch=''
case "$usecrosscompile" in
$define|true|[yY]*)
@if { test -d ../Cross }
?X:
?X: Cross-compilation is enabled when there is a 'Cross' directory found
?X: at the root
 of the package.  This directory must contain the following
?X: entries for defining the cross-compilation process:
?X:
?X: FIXME FIXME
?X: WE MUST DISTINGUISH BETWEEN LOCAL cross-compiling AND REMOTE ONE
?X: ACTUALLY, REMOTE COMPILATION SHOULD BE CONFIGURED INTERACTIVELY
?X: IT WILL COPY ALL THE FILES FROM THE MANIFEST DOWN TO THE REMOTE DIR...
?X: (and copy things like 'mkdep', etc...)
?X:
 $echo "Cross-compiling..."
 croak=''
 case "$cc" in
 *-*-gcc)
?X: A cross-compiling gcc, probably.
    targetarch=`$echo $cc|$sed 's/-gcc$//'`
    ar=$targetarch-ar
?X: leave out ld, choosing it is more complex
    nm=$targetarch-nm
    ranlib=$targetarch-ranlib
    $echo 'extern int foo;' > try.c
    set X `$cc -v -E try.c 2>&1 | \
  $awk '/^#include </,/^End of search /'|$grep '/include'`
    shift
  if $test $# -gt 0; then
        incpth="$incpth $*"
  incpth="`$echo $incpth|$sed 's/^ //'`"
  echo "Guessing incpth '$incpth'." >&4
```

```
  for i in $*; do
   j="`$echo $i|$sed 's,/include$,/lib,`"
   if
$test -d $j; then
    libpth="$libpth $j"
   fi
  done
  libpth="`$echo $libpth|$sed 's/^ //'`"
  echo "Guessing libpth '$libpth'." >&4
    fi
    $rm -f try.c
    ;;
esac
case "$targetarch" in
") echo "Targetarch not defined." >&4; croak=y ;;
*)  echo "Using targetarch $targetarch." >&4 ;;
esac
case "$incpth" in
") echo "Incpth not defined." >&4; croak=y ;;
*)  echo "Using incpth '$incpth'." >&4 ;;
esac
case "$libpth" in
") echo "Libpth not defined." >&4; croak=y ;;
*)  echo "Using libpth '$libpth'." >&4 ;;
esac
case "$usrinc" in
")
 for i in $incpth; do
  if $test -f $i/errno.h -a -f $i/stdio.h -a -f $i/time.h; then
   usrinc=$i
   echo "Guessing usrinc $usrinc." >&4
   break
  fi
    done
    case "$usrinc" in
    ") echo "Usrinc not defined." >&4; croak=y ;;
    esac
 ;;
*)  echo "Using usrinc $usrinc." >&4 ;;
esac
case "$targethost" in
") echo "Targethost not defined." >&4; croak=y ;;
*)  echo "Using targethost $targethost."
>&4
esac
locincpth=' '
loclibpth=' '
case "$croak" in
```

```
 y) echo "Cannot continue, aborting." >&4; exit 1 ;;
 esac
 case "$src" in
 /*) run=$src/Cross/run
     targetmkdir=$src/Cross/mkdir
     to=$src/Cross/to
     from=$src/Cross/from
     ;;
 *)  pwd=`$test -f ../Configure & cd ..; pwd`
     run=$pwd/Cross/run
     targetmkdir=$pwd/Cross/mkdir
     to=$pwd/Cross/to
     from=$pwd/Cross/from
     ;;
 esac
 case "$targetrun" in
 ") targetrun=ssh ;;
 esac
 case "$targetto" in
 ") targetto=scp ;;
 esac
 case "$targetfrom" in
 ") targetfrom=scp ;;
 esac
 run=$run-$targetrun
 to=$to-$targetto
 from=$from-$targetfrom
 case "$targetdir" in
 ")
  targetdir="${TMPDIR:-/tmp}"
  echo "Guessing targetdir $targetdir." >&4
  ;;
 esac
 case "$targetuser" in
 ")
  targetuser=root
  echo "Guessing targetuser $targetuser." >&4
  ;;
 esac
 case "$targetfrom" in
 scp) q=-q ;;
 *) q=" ;;
 esac
 case "$targetrun" in
 ssh|rsh)
  $cat >$run <<EOF
#!/bin/sh
case "\$1" in
```

```
-cwd)
 shift
 cwd=\$1
  shift
 ;;
esac
case "\$cwd" in
") cwd=$targetdir ;;
esac
exe=\$1
shift
if $test ! -f \$exe.xok; then
 $to \$exe
 $touch \$exe.xok
fi
$targetrun -l $targetuser $targethost "cd \$cwd && ./\$exe \$@"
EOF
  ;;
 *)  echo "Unknown targetrun '$targetrun'" >&4
     exit 1
     ;;
 esac
 case "$targetmkdir" in
 */Cross/mkdir)
  $cat >$targetmkdir <<EOF
#!/bin/sh
$targetrun -l $targetuser $targethost "mkdir -p \$@"
EOF
     $chmod a+rx $targetmkdir
     ;;
 *)  echo "Unknown targetmkdir '$targetmkdir'" >&4
     exit 1
     ;;
 esac
 case "$targetto" in
 scp|rcp)
     $cat >$to <<EOF
#!/bin/sh
for f in \$@
do
 case "\$f" in
 /*)
   $targetmkdir \`dirname \$f\`
   $targetto $q \$f $targetuser@$targethost:\$f            || exit 1
   ;;
 *)
   $targetmkdir $targetdir/\`dirname \$f\`
   $targetto $q \$f $targetuser@$targethost:$targetdir/\$f || exit 1
```

```
   ;;
 esac
done
exit 0
EOF
     ;;
 cp) $cat >$to <<EOF
#!/bin/sh
for f in \$@
do
 case "\$f" in
 /*)
   $mkdir -p $targetdir/\`dirname
 \$f\`
   $cp \$f $targetdir/\$f || exit 1
   ;;
 *)
   $targetmkdir $targetdir/\`dirname \$f\`
   $cp \$f $targetdir/\$f || exit 1
   ;;
 esac
done
exit 0
EOF
     ;;
 *)  echo "Unknown targetto '$targetto'" >&4
     exit 1
     ;;
 esac
 case "$targetfrom" in
 scp|rcp)
   $cat >$from <<EOF
#!/bin/sh
for f in \$@
do
 $rm -f \$f
 $targetfrom $q $targetuser@$targethost:$targetdir/\$f . || exit 1
done
exit 0
EOF
     ;;
 cp) $cat >$from <<EOF
#!/bin/sh
for f in \$@
do
 $rm -f \$f
 cp $targetdir/\$f . || exit 1
done
```

```
exit 0
EOF
    ;;
 *)  echo "Unknown targetfrom '$targetfrom'" >&4
    exit 1
    ;;
 esac
 if $test ! -f $run; then
    echo "Target 'run' script '$run' not found." >&4
 else
    $chmod a+rx $run
 fi
 if $test ! -f $to; then
    echo "Target 'to' script '$to' not found." >&4
 else
    $chmod a+rx $to
 fi
 if $test ! -f $from; then
    echo "Target 'from' script '$from' not found." >&4
 else
    $chmod a+rx $from
 fi
 if $test ! -f $run -o ! -f $to -o !
 -f $from; then
    exit 1
 fi
 $cat >&4 <<EOF
Using '$run' for remote execution,
and '$from' and '$to'
for remote file transfer.
EOF
@else
 echo "Cross-compilation is not supported for this package." >&4
 exit 1
@end
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Cross.U
No license file was found, but licenses were detected in source scan.

Perl5 Metaconfig Units

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All rights reserved.

These units are the ones I used to build Configure and config_h.SH
in the Perl5 distribution.

The Configure script and config_h.SH file in the Perl distribution are
generated by a program called metaconfig. To run metaconfig, you will
need the full dist 3.0 distribution, maintained by Raphael Manfredi.
As of this writing, the current version is dist3.0, patchlevel 70.
Dist version dist-3.0@70.tar.gz is available on CPAN (the Comprehensive
Perl Archive Network) as
<http://www.perl.com/perl/CPAN/authors/id/RAM/dist-3.0@70.tar.gz>.

Instructions:

1. Unpack the full perl5 sources. Execute the following command

 chmod +w Configure config_h.SH Porting/Glossary Porting/config*

2. Unpack the archive containing this file in the perl5 source
   directory. This will create a directory
 'U' under the perl5
   sources. That directory will contain the metaconfig units for perl5.
   This will also create two files in the perl5 source tree:
   MANIFEST.new and .package.

3. Apply any patches to perl in the perl_patches/ directory.
   (This may well be empty.)

4. Obtain and install dist-3.0pl70.

4. Apply any patches to dist under the dist_patches subdirectory.

5. From your main perl5 source directory, run packinit to
   regenerate the .package file. IMPORTANT: Change the name and
   address of the maintainer to your own name and address. I don't
   want bug reports intended for you coming to me.

6. From your main perl5 source directory, run

 metalint (or mlint)

   and repair every failure it reports.

7. From your main perl5 source directory, run

 metaconfig -m (or mconfig -m)

8. Edit U/mkglossary and/or U/mkgloss.pl to point to your dist-3.0pl70

location. (See comments at the top.)

9. Run the Porting/mksample script to update the contents
 of the Porting/
subdirectory, or run all parts by hand. (see README)

NB: this script used to be U/mksample replaced by Porting/mksample;
see Porting/pumpkin.pod instead for current documentation on its
use.

10. Let me know about any changes, corrections, or enhancements.

Things to watch out for:

1. Future support of better random number generators should probably
start with the randfunc.U unit included here. It's currently
broken, but well commented and probably a good place to start.

Descriptions:

The units and other related files have been broken up into the following
directories:

acl/
This is an old patch to begin to detect and use ACL (access
control list) file protection schemes.

compline/
These are similar to the standard units, but I have modified them
to have a more uniform compile command line, usually using the new
Compile.U unit. I have submitted these for inclusion into the
regular dist distribution. (The ccflags.U
 unit is actually
perl-specific since it mentions -DDEBUGGING and -DPOSIX_SOURCE,
but that's the only place it is perl-specific.)

dist_patches/
These are patches to dist that must be applied before it is built
and installed. I have submitted these for inclusion in the
regular dist distribution.

modified/
These are modified versions of the standard units. Also included in
this directory are new units that are clearly derived from existing
units. I have submitted these for inclusion in the regular dist
distribution.

perl/

These are specific to perl. Some are heavily derived from original dist units, and are marked as such. Others are original.

perl_patches/
These are patches to the perl source. This directory should ordinarily be empty, but there may have been drift between the standard version of perl and the one associated with these units.

protos/
These are units modified to use the new Hasproto.U or Protochk.U units to check for prototypes. I have submitted these for inclusion into the regular dist distribution.

target/
This is the very, very beginning of cross-compiler support. It doesn't work yet, and many standard units will need modification.

typedefs/
These are standard units modified to use the modified Typedef.U unit to check for typedefs. (The modified Typdef.U includes a function to avoid unnecessary prompts if the typdef being searched for exists.) I have submitted these for inclusion into the regular dist distribution.

threads/
These are specific to threading perl.

Copyright Information:

Unless otherwise indicated, the files contained in this distribution are:

Copyright (c) 1996-1998, Andy Dougherty

The following licensing terms apply to all files contained in this distribution:

You may distribute the files contained in this distribution under the terms of either

a) the "Artistic License" which comes with Perl,
or

b) the "Artistic License" which comes with dist, or

c) the GNU General Public License as published by the Free

Software Foundation; either version 1, or (at your option) any
later version (see the file "Copying" that comes with the
Perl distribution).

Which one to use is your choice.

The units in the "modified" directory have been derived from units
associated with the metaconfig program of Raphael Manfredi's "dist"
distribution. These units list Raphael Manfredi as the Copyright holder.
dist is distributed under a modified version of the Perl Artistic License.
Clause 7 of this modified license as contained in dist-3.0-pl60 provides:

7. You may reuse parts of this Package in your own programs, provided
that you explicitly state where you got them from, in the source code
(and, left to your courtesy, in the documentation), duplicating
all the associated copyright notices and disclaimers. Besides
your changes, if any, must be clearly marked
as such. Parts reused
that way will no longer fall under this license if, and only if,
the name of your program(s) have no immediate connection with the
name of the Package itself or its associated programs. You may then
apply whatever restrictions you wish on the reused parts or choose
to place them in the Public Domain--this will apply only within the
context of your package.

In accordance with this clause, the versions of these units
contained here are made available under the same terms as the
rest of the units.

If you have any questions about the use of these units or about
the differences between these units and the standard versions, please
feel free to ask.

Andy Dougherty doughera@lafayette.edu
Dept. of Physics
Lafayette College
Easton, PA 18042-1782

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/README.dist
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:
?RCS: Copyright (c) 2010 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_prctl d_prctl_set_name: Inlibc cat Compile run rm_try
?MAKE: -pick add $@ %<
?S:d_prctl:
?S: This variable conditionally defines the HAS_PRCTL symbol, which
?S: indicates to the C program that the prctl() routine is available.
?S: Note that there are at least two prctl variants: Linux and Irix.
?S: While they are somewhat similar, they are incompatible.
?S:.
?S:d_prctl_set_name:
?S: This variable conditionally defines the HAS_PRCTL_SET_NAME symbol,
?S: which indicates to the C program that the prctl() routine supports
?S: the PR_SET_NAME option.
?S:.
?C:HAS_PRCTL:
?C: This symbol, if defined, indicates that the prctl routine is
?C: available to set process title.
?C: Note that there are at least two
 prctl variants: Linux and Irix.
?C: While they are somewhat similar, they are incompatible.
?C:.
?C:HAS_PRCTL_SET_NAME:
?C: This symbol, if defined, indicates that the prctl routine is
?C: available to set process title and supports PR_SET_NAME.
?C:.
?H:#$d_prctl HAS_PRCTL  /**/
?H:#$d_prctl_set_name HAS_PRCTL_SET_NAME  /**/
?H:.
?F:!try
?LINT:set d_prctl
: see if prctl exists
set prctl d_prctl
eval $inlibc

: see if prctl supports PR_SET_NAME
d_prctl_set_name=$undef
case $d_prctl in
   $define)
 $cat >try.c <<EOM
#ifdef __ANDROID__
#include <unistd.h>
#endif
#include <sys/prctl.h>

int main (int argc, char *argv[])
{
   return (prctl (PR_SET_NAME, "Test"));
```

```
  } /* main */
EOM
 set try
 if eval $compile_ok && $run ./try; then
    echo "Your prctl (PR_SET_NAME, ...) works"
    d_prctl_set_name=$define
    fi
 $rm_try
 ;;
  esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_prctl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_byacc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_byacc.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:31:14  ram
?RCS: patch61: created
?RCS:
?MAKE:d_byacc: byacc Setvar
?MAKE: -pick add $@ %<
?S:d_byacc:
?S: This variable indicates whether byacc is available.
?S: If the user has specified 'portability', then Makefile.SH
?S: sees $byacc='byacc' whether or not the user actually has
?S: byacc.  This variable allows us to determine in a makefile
?S: if we really
 have byacc.
?S:.
?LINT:set d_byacc
: Check if we really have byacc
case "$byacc" in
"|'byacc') val="$undef" ;;
*) val="$define" ;;
esac
set d_byacc
```

```
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_byacc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setprotoent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_setprotoent_r setprotoent_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_setprotoent_r:
?S: This variable conditionally defines the HAS_SETPROTOENT_R symbol,
?S: which indicates to the C program that the setprotoent_r()
?S: routine is available.
?S:.
?S:setprotoent_r_proto:
?S: This variable encodes the prototype of setprotoent_r.
?S: It is zero if d_setprotoent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setprotoent_r
?S: is defined.
?S:.
?C:HAS_SETPROTOENT_R:
?C: This symbol, if defined, indicates that the setprotoent_r
 routine
?C: is available to setprotoent re-entrantly.
?C:.
?C:SETPROTOENT_R_PROTO:
?C: This symbol encodes the prototype of setprotoent_r.
?C: It is zero if d_setprotoent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setprotoent_r
?C: is defined.
?C:.
?H:#$d_setprotoent_r HAS_SETPROTOENT_R /**/
?H:#define SETPROTOENT_R_PROTO $setprotoent_r_proto /**/
?H:.
?T:try hdrs d_setprotoent_r_proto
: see if setprotoent_r exists
set setprotoent_r d_setprotoent_r
eval $inlibc
case "$d_setprotoent_r" in
```

```
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_setprotoent_r_proto:$usethreads" in
 ":define") d_setprotoent_r_proto=define
  set d_setprotoent_r_proto setprotoent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_setprotoent_r_proto" in
 define)
 case "$setprotoent_r_proto" in
 "|0) try='int setprotoent_r(int, struct protoent_data*);'
 ./protochk "$extern_C $try" $hdrs && setprotoent_r_proto=I_ID ;;
 esac
 case "$setprotoent_r_proto"
 in
 "|0) try='void setprotoent_r(int, struct protoent_data*);'
 ./protochk "$extern_C $try" $hdrs && setprotoent_r_proto=V_ID ;;
 esac
 case "$setprotoent_r_proto" in
 "|0) d_setprotoent_r=undef
  setprotoent_r_proto=0
  echo "Disabling setprotoent_r, cannot determine prototype." >&4 ;;
 * ) case "$setprotoent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) setprotoent_r_proto="REENTRANT_PROTO_$setprotoent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "setprotoent_r has no prototype, not using it." >&4 ;;
  esac
  d_setprotoent_r=undef
  setprotoent_r_proto=0
  ;;
 esac
 ;;
*) setprotoent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_setprotoent_r.U
No license file was found, but licenses were detected in source scan.

?RCS: Id

```
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:sysroot: Head
?MAKE: -pick add $@ %<
?S:sysroot:
?S: This variable is empty unless supplied by the Configure user.
?S: It can contain a path to an alternative root directory, under which
?S: headers and libraries for the compilation target can be found. This
?S: is generally used when cross-compiling using a gcc-like compiler.
?S:.
?LINT:extern cc
?LINT:extern cppflags
?LINT:change cppflags
?LINT:extern ccflags
?LINT:change ccflags
?LINT:extern ldflags
?LINT:change ldflags
?LINT:extern cccdlflags
?X: _sysroot is later used in ccflags, but we do not want it in config.sh
?T:var xxx path _sysroot
: Set 'sysroot' to change the logical root directory to your headers and libraries see man gcc
: This is primarily meant for cross-compile environments, and
 may fail to be useful in other cases
if test "X$sysroot" = X; then
   sysroot=""
else
   case "$cc" in
 *gcc*|*g++*)
     echo "Using $sysroot to find your headers and libraries, adding to ccflags"
     # _sysroot is used in places where we need --sysroot=foo
     # but using the rest of the flags could cause issues.
     _sysroot="--sysroot=$sysroot";
     case "$ccflags" in
  *sysroot*) ;;
  'undef'|*)
  ccflags="$ccflags $_sysroot"
     esac
     case "$ldflags" in
  *sysroot*) ;;
  'undef'|*)
  ldflags="$ldflags $_sysroot"
     esac
     case "$cppflags" in
  *sysroot*) ;;
  'undef'|*)
  cppflags="$cppflags $_sysroot"
```

```
    esac
    # lddlflags updated below in lddlflags section;
    # same with cccdlflags
    ;;
  esac

  # Adjust some defaults to also use $sysroot
  for var in xlibpth loclibpth locincpth glibpth; do
 eval xxx=\$$var
 eval $var=''
 for path in $xxx; do
    eval $var=\"\$$var $sysroot$path\"
 done
  done

fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/Sysroot.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_pthread_atfork: Inlibc cat Compile usethreads Setvar
?MAKE: -pick add $@ %<
?S:d_pthread_atfork:
?S: This variable conditionally defines the HAS_PTHREAD_ATFORK symbol,
?S: which indicates to the C program that the pthread_atfork()
?S: routine is available.
?S:.
?C:HAS_PTHREAD_ATFORK:
?C: This symbol, if defined, indicates that the pthread_atfork routine
?C: is available to setup fork handlers.
?C:.
?H:#$d_pthread_atfork HAS_PTHREAD_ATFORK  /**/
?H:.
?LINT:set d_pthread_atfork
: see whether the pthread_atfork exists
$cat >try.c <<EOP
#include <pthread.h>
#include <stdio.h>
int main() {
```

```
#ifdef  PTHREAD_ATFORK
	pthread_atfork(NULL,NULL,NULL);
#endif
}
EOP

: see if pthread_atfork exists
set
 try -DPTHREAD_ATFORK
if eval $compile; then
   val="$define"
else
   val="$undef"
fi
case "$usethreads" in
$define)
	case "$val" in
	$define) echo 'pthread_atfork found.' >&4	;;
	*)	echo 'pthread_atfork NOT found.' >&4	;;
	esac
esac
set d_pthread_atfork
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_pthread_atfork.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: nis.U,v 3.0.1.3 1997/02/28 16:17:38 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: nis.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:17:38  ram
?RCS: patch61: ensure suitable defaults for hostcat and friends
?RCS:
?RCS: Revision 3.0.1.2  1995/03/21  08:48:34  ram
?RCS: patch52: continued fix for NeXT NIS/NetInfo handling
?RCS:
?RCS: Revision 3.0.1.1  1995/02/15  14:16:23  ram
?RCS: patch51: now correctly handles NeXT using NIS rather than NetInfo
```

```
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:passcat
 groupcat hostcat: Myread Oldconfig test contains
?MAKE: -pick add $@ %<
?S:passcat:
?S: This variable contains a command that produces the text of the
?S: /etc/passwd file.  This is normally "cat /etc/passwd", but can be
?S: "ypcat passwd" when NIS is used.
?S: On some systems, such as os390, there may be no equivalent
?S: command, in which case this variable is unset.
?S:.
?S:groupcat:
?S: This variable contains a command that produces the text of the
?S: /etc/group file.  This is normally "cat /etc/group", but can be
?S: "ypcat group" when NIS is used.
?S: On some systems, such as os390, there may be no equivalent
?S: command, in which case this variable is unset.
?S:.
?S:hostcat:
?S: This variable contains a command that produces the text of the
?S: /etc/hosts file.  This is normally "cat /etc/hosts", but can be
?S: "ypcat hosts" when NIS is used.
?S: On some systems, such as os390, there may be no equivalent
?S: command, in which case this variable is unset.
?S:.
:
 see if we have to deal with yellow pages, now NIS.
?X: NeXT gives us some fun here, as always, by having both NIS (former YP)
?X: and NetInfo. But since it has both, it's ok to put the test inside the if.
?X: Contributed by Thomas Neumann <tom@smart.bo.open.de>.
if $test -d /usr/etc/yp || $test -d /etc/yp || $test -d /usr/lib/yp; then
@if passcat || groupcat
 case "$passcat" in
 nidump*) ;;
 *)
  case "$passcat" in
  *ypcat*) dflt=y;;
  ") if $contains '^\+' /etc/passwd >/dev/null 2>&1; then
    dflt=y
   else
    dflt=n
   fi;;
  *) dflt=n;;
  esac
  echo " "
```

```
  rp='Are you getting the passwd file via yellow pages?'
  . ./myread
  case "$ans" in
  y*) passcat='ypcat passwd'
@if groupcat
   echo "(Assuming /etc/group is also distributed.)"
   groupcat='ypcat group'
@end
   ;;
  *) passcat='cat /etc/passwd'
@if groupcat
   echo "(Assuming /etc/group is also local.)"
   groupcat='cat /etc/group'
@end
   ;;
  esac
  ;;
 esac
@end
@if hostcat
 case "$hostcat" in
 nidump*) ;;
 *)
  case
 "$hostcat" in
  *ypcat*) dflt=y;;
  ") if $contains '^\+' /etc/passwd >/dev/null 2>&1; then
    dflt=y
   else
    dflt=n
   fi;;
  *) dflt=n;;
  esac
  echo " "
  rp='Are you getting the hosts file via yellow pages?'
  . ./myread
  case "$ans" in
  y*) hostcat='ypcat hosts';;
  *) hostcat='cat /etc/hosts';;
  esac
  ;;
 esac
@end
fi
?X: Ensure suitable default -- Manoj Srivastava
case "$hostcat" in
") test -f /etc/hosts && hostcat='cat /etc/hosts';;
esac
```

```
case "$groupcat" in
") test -f /etc/group && groupcat='cat /etc/group';;
esac
case "$passcat" in
") test -f /etc/passwd && passcat='cat /etc/passwd';;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/nis.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_perlio.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_perlio.U,v $
?RCS:
?MAKE:useperlio: Myread Oldconfig Setvar
?MAKE: -pick add $@ %<
?Y:TOP
?S:useperlio:
?S: This variable conditionally defines the USE_PERLIO symbol,
?S: and indicates that the PerlIO abstraction should be
?S: used throughout.
?S:.
?C:USE_PERLIO:
?C: This symbol, if defined, indicates that the PerlIO abstraction should
?C: be used throughout.  If not defined, stdio should be
?C: used in a fully backward compatible manner.
?C:.
?H:?%<:#ifndef USE_PERLIO
?H:?%<:#$useperlio USE_PERLIO  /**/
?H:?%<:#endif
?H:.
: Check if we want perlio
useperlio="$define"
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/useperlio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Nothing.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
```

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Nothing.U,v $
?RCS: Revision 3.0 1993/08/18 12:05:09 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this file is to supply an empty target for the private
?X: Makefile built by metaconfig to order the units.
?X:
?MAKE:Nothing: Head

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Nothing.U
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: myhostname.U,v $
?RCS: Revision 3.0.1.3 1997/02/28 16:15:55 ram
?RCS: patch61: improved hostname lookup by using ypmatch when NIS is used
?RCS:
?RCS: Revision 3.0.1.2 1994/10/29 16:25:43 ram
?RCS: patch36: call ./xenix explicitly instead of relying on PATH
?RCS: patch36: now uses new Tr unit to convert to/from lowercase
?RCS:
?RCS: Revision 3.0.1.1 1994/06/20 07:06:20 ram
?RCS: patch30: now a little more clever for domain name guessing
?RCS:
?RCS: Revision 3.0 1993/08/18 12:09:18 ram
?RCS:
 Baseline for dist 3.0 netwide release.
?RCS:

```
?MAKE:myhostname phostname mydomain: contains sed test Myread Oldconfig \
 Guess Loc awk echo sort uniq +usrinc rm hostcat Tr osname
?MAKE: -pick add $@ %<
?S:myhostname (hostname):
?S: This variable contains the eventual value of the MYHOSTNAME symbol,
?S: which is the name of the host the program is going to run on.
?S: The domain is not kept with hostname, but must be gotten from mydomain.
?S: The dot comes with mydomain, and need not be supplied by the program.
?S:.
?S:mydomain:
?S: This variable contains the eventual value of the MYDOMAIN symbol,
?S: which is the domain of the host the program is going to run on.
?S: The domain must be appended to myhostname to form a complete host name.
?S: The dot comes with mydomain, and need not be supplied by the program.
?S:.
?S:phostname:
?S: This variable contains the eventual value of the PHOSTNAME symbol,
?S: which is a command that can be fed to popen() to get the host name.
?S: The program
 should probably not presume that the domain is or isn't
?S: there already.
?S:.
?C:MYHOSTNAME (HOSTNAME):
?C: This symbol contains name of the host the program is going to run on.
?C: The domain is not kept with hostname, but must be gotten from MYDOMAIN.
?C: The dot comes with MYDOMAIN, and need not be supplied by the program.
?C: If gethostname() or uname() exist, MYHOSTNAME may be ignored. If MYDOMAIN
?C: is not used, MYHOSTNAME will hold the name derived from PHOSTNAME.
?C:.
?C:MYDOMAIN:
?C: This symbol contains the domain of the host the program is going to
?C: run on.  The domain must be appended to HOSTNAME to form a complete
?C: host name.  The dot comes with MYDOMAIN, and need not be supplied by
?C: the program.  If the host name is derived from PHOSTNAME, the domain
?C: may or may not already be there, and the program should check.
?C:.
?H:#define MYHOSTNAME "$myhostname"  /**/
?H:#define MYDOMAIN "$mydomain"  /**/
?H:.
?T:cont i tans tmp_re file
: now get the host name
echo
 " "
echo "Figuring out host name..." >&4
case "$myhostname" in
") cont=true
 echo 'Maybe "hostname" will work...'
 if tans=`sh -c hostname 2>&1` ; then
```

```
  myhostname=$tans
  phostname=hostname
  cont=''
 fi
 ;;
*) cont='';;
esac
if $test "$cont"; then
 if ./xenix; then
  echo 'Oh, dear.  Maybe "/etc/systemid" is the key...'
  if tans=`cat /etc/systemid 2>&1` ; then
   myhostname=$tans
   phostname='cat /etc/systemid'
   echo "Whadyaknow.  Xenix always was a bit strange..."
   cont=''
  fi
 elif $test -r /etc/systemid; then
  echo "(What is a non-Xenix system doing with /etc/systemid?)"
 fi
fi
if $test "$cont"; then
 echo 'No, maybe "uuname -l" will work...'
 if tans=`sh -c 'uuname -l' 2>&1` ; then
  myhostname=$tans
  phostname='uuname -l'
 else
  echo 'Strange.  Maybe "uname -n" will work...'
  if tans=`sh -c 'uname -n' 2>&1` ; then
   myhostname=$tans
   phostname='uname -n'
  else
   echo 'Oh well, maybe I can mine it out of whoami.h...'
   if tans=`sh -c $contains' sysname $usrinc/whoami.h'
 2>&1` ; then
    myhostname=`echo "$tans" | $sed 's/^.*"\(.*\)"/\1/'`
    phostname="sed -n -e '"/sysname/s/^.*\"\\(.*\\)\"/\1/{"" -e p -e q -e '}' <$usrinc/whoami.h"
   else
    case "$myhostname" in
    '') echo "Does this machine have an identity crisis or something?"
     phostname='';;
    *)
     echo "Well, you said $myhostname before..."
     phostname='echo $myhostname';;
    esac
   fi
  fi
 fi
fi
```

```
case "$myhostname" in
") myhostname=noname ;;
esac
: you do not want to know about this
set $myhostname
myhostname=$1

: verify guess
if $test "$myhostname" ; then
 dflt=y
 rp='Your host name appears to be "'$myhostname'".' Right?"
 . ./myread
 case "$ans" in
 y*) ;;
 *) myhostname=";;
 esac
fi

: bad guess or no guess
while $test "X$myhostname" = X ; do
 dflt="
 rp="Please type the (one word) name of your host:"
 . ./myread
 myhostname="$ans"
done

: translate upper to lower if necessary
case "$myhostname" in
*[A-Z]*)
 echo "(Normalizing case in your host name)"
 myhostname=`echo
 $myhostname | ./tr '[A-Z]' '[a-z]'`
 ;;
esac

?X: Do not ask for domain name if this is not used later on. In that
?X: case, the hostname may keep its domain name, but it doesn't matter.
@if MYDOMAIN || mydomain
case "$myhostname" in
*.*)
 dflt=`expr "X$myhostname" : "X[^.]*\(\..*\)"`
 myhostname=`expr "X$myhostname" : "X\([^.]*\)\."`
 echo "(Trimming domain name from host name--host name is now $myhostname)"
 ;;
*) case "$mydomain" in
 ")
?X:
?X: There is currently no way to say we do not want hostcat if mydomain is not
```

```
?X: used. One way to achieve that would be to put that code in a mydomain.U
?X: unit. However, we want to stick the sanity checks right after the domain
?X: name computation, or if none is done, right after the hostname computation.
?X:
  {
?X: If we use NIS, try ypmatch.
   test "X$hostcat" = "Xypcat hosts" &&
   ypmatch "$myhostname" hosts 2>/dev/null |\
    $sed -e 's/[  ]*#.*//; s/$/ /' > hosts && \
   $test -s hosts
  } || {
?X: Extract only
 the relevant hosts, reducing file size,
?X: remove comments, insert trailing space for later use.
        $hostcat | $sed -n -e "s/[  ]*#.*//; s/\$/ /
     /[  ]$myhostname[ . ]/p" > hosts
  }
  tmp_re="[ . ]"
  $test x`$awk "/[0-9].*[  ]$myhostname$tmp_re/ { sum++ }
        END { print sum }" hosts` = x1 || tmp_re="[  ]"
  dflt=.`$awk \
  "/[0-9].*[  ]$myhostname$tmp_re/ {for(i=2; i<=NF;i++) print \\\$i}" \
   hosts | $sort | $uniq | \
   $sed -n -e "s/$myhostname\.\([-a-zA-Z0-9_.]\)/\1/p"`
  case `$echo X$dflt` in
  X*\ *) echo "(Several hosts in /etc/hosts matched hostname)"
   dflt=.
   ;;
?X: There is no /etc/hosts on os390
  X.)
   if $test -f /etc/hosts; then
    echo "(You do not have fully-qualified names in /etc/hosts)"
   else
    echo "(I cannot locate a hosts database anywhere)"
   fi
   ;;
  esac
  case "$dflt" in
  .)
   tans=`./loc resolv.conf X /etc /usr/etc`
   if $test -f "$tans"; then
    echo "(Attempting domain name extraction from $tans)"
?X: Look for either a search
 or a domain directive.
    dflt=.`$sed -n -e 's/ / /g' \
      -e 's/^search  *\([^ ]*\).*/\1/p' $tans \
      | ./tr '[A-Z]' '[a-z]' 2>/dev/null`
    case "$dflt" in
```

```
    .) dflt=.`$sed -n -e 's/ / /g' \
         -e 's/^domain  *\([^ ]*\).*/\1/p' $tans \
         | ./tr '[A-Z]' '[a-z]' 2>/dev/null`
      ;;
    esac
   fi
   ;;
  esac
  case "$dflt" in
  .) echo "(No help from resolv.conf either -- attempting clever guess)"
   dflt=.`sh -c domainname 2>/dev/null`
   case "$dflt" in
   ") dflt='.';;
   .nis.*|.yp.*|.main.*) dflt=`echo $dflt | $sed -e 's/^\.[^.]*//'`;;
   esac
   ;;
  esac
  case "$dflt$osname" in
  .os390)
   file="//'SYS1.TCPPARMS(TCPDATA)'"
   echo "(Attempting domain name extraction from $file)"
   dflt=.`awk '/^DOMAINORIGIN/ {print $2}' "$file" 2>/dev/null`
   ;;
   esac
  case "$dflt" in
  .) echo "(Lost all hope -- silly guess then)"
   dflt='.nonet'
   ;;
  esac
  $rm -f hosts
  ;;
 *) dflt="$mydomain";;
 esac;;
esac
echo " "
rp="What is your domain name?"
.
 ./myread
tans="$ans"
case "$ans" in
") ;;
.*) ;;
*) tans=".$tans";;
esac
mydomain="$tans"

: translate upper to lower if necessary
case "$mydomain" in
```

```
*[A-Z]*)
 echo "(Normalizing case in your domain name)"
 mydomain=`echo $mydomain | ./tr '[A-Z]' '[a-z]'`
 ;;
esac

@end
: a little sanity check here
case "$phostname" in
") ;;
*)
 case `$phostname | ./tr '[A-Z]' '[a-z]'` in
 $myhostname$mydomain|$myhostname) ;;
 *)
  case "$phostname" in
  sed*)
   echo "(That doesn't agree with your whoami.h file, by the way.)"
   ;;
  *)
   echo "(That doesn't agree with your $phostname command, by the way.)"
   ;;
  esac
 ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/myhostname.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_frexpl: Inlibc
?MAKE: -pick add $@ %<
?S:d_frexpl:
?S: This variable conditionally defines the HAS_FREXPL symbol, which
?S: indicates to the C program that the frexpl() routine is available.
?S:.
?C:HAS_FREXPL:
?C: This symbol, if defined, indicates that the frexpl routine is
?C: available to break a long double floating-point number into
```

```
?C: a normalized fraction and an integral power of 2.
?C:.
?H:#$d_frexpl HAS_FREXPL  /**/
?H:.
?LINT:set d_frexpl
: see if frexpl exists
set frexpl d_frexpl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_frexpl.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: charsize.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:07:13  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:34  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:charsize: Assert Myread cat rm_try +cc +ccflags echo n c
?MAKE: -pick add $@ %<
?S:charsize:
?S: This variable contains the value of the CHARSIZE symbol, which
?S: indicates to the C program how many bytes there are in a character.
?S:.
?C:CHARSIZE:
?C: This symbol contains
 the size of a char, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define CHARSIZE $charsize
?H:.
?T:size s
: check for length of character
echo " "
$echo $n "Checking to see how big your characters are...$c" >&4
```

```
for size in 1 2 4 8 error; do
 $cat >try.c <<EOCP
#include "static_assert.h"
char foo;
int main()
{
 STATIC_ASSERT($size == sizeof(foo));
 return 0;
}
EOCP
 if $cc -c $ccflags try.c >/dev/null 2>&1; then break; fi
done
case "$size" in
error)
 echo " cannot compute it." >&4
 dflt=1
 rp="What is the size of a character (in bytes)?"
 . ./myread
 charsize="$ans"
 ;;
*)
 case "$size" in
 1) s='';;
 *) s='s';;
 esac
 echo " $size byte$s." >&4
 charsize=$size
 ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/charsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_shm.U,v 3.0 1993/08/18 12:07:17 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_shm.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:17  ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_shm: test d_shmctl d_shmget d_shmat d_shmdt Setvar Findhdr osname
?MAKE: -pick add $@ %<
?S:d_shm:
?S: This variable conditionally defines the HAS_SHM symbol, which
?S: indicates that the entire shm*(2) library is present.
?S:.
?C:HAS_SHM:
?C: This symbol, if defined, indicates that the entire shm*(2) library is
?C: supported.
?C:.
?H:#$d_shm HAS_SHM  /**/
?H:.
?T:h_shm
?LINT:set
 d_shm
: see how much of the 'shm*(2)' library is present.
h_shm=true
echo " "
case "$d_shmctl$d_shmget$d_shmat$d_shmdt" in
*"$undef"*) h_shm=false;;
esac
case "$osname" in
freebsd)
   case "`ipcs 2>&1`" in
   "SVID shared memory"*"not configured"*)
 echo "Your $osname does not have the shm*(2) configured." >&4
       h_shm=false
 val="$undef"
 set shmctl d_shmctl
 eval $setvar
 set shmget d_shmget
 eval $setvar
 set shmat d_shmat
 eval $setvar
 set shmdt d_shmdt
 eval $setvar
 ;;
   esac
   ;;
esac
: we could also check for sys/ipc.h ...
if $h_shm && $test `./findhdr sys/shm.h`; then
 echo "You have the full shm*(2) library." >&4
 val="$define"
else
 echo "You don't have the full shm*(2) library." >&4
```

```
 val="$undef"
fi
set d_shm
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_shm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Oldsym.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:06:58  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit follows the creation of the config.sh file. It adds some
?X: special symbols: defines from patchlevel.h file if any and CONFIG,
?X: which is set to true. Then, we try to keep all the new symbols that
?X: may come from a hint file or a previous config.sh file.
?X:
?MAKE:Oldsym:
 Config_sh Options test hint src sed sort uniq
?MAKE: -pick add $@ %<
?T:CONFIG sym tmp
?F:!UU
: add special variables
$test -f $src/patchlevel.h && \
awk '/^#define/ {printf "%s=%s\n",$2,$3}' $src/patchlevel.h >>config.sh
echo "CONFIG=true" >>config.sh

: propagate old symbols
if $test -f UU/config.sh; then
?X: Make sure each symbol is unique in oldconfig.sh
 <UU/config.sh $sort | $uniq >UU/oldconfig.sh
?X:
```

```
?X: All the symbols that appear twice come only from config.sh (hence the
?X: two config.sh in the command line). These symbols will be removed by
?X: the uniq -u command. The oldsyms file thus contains all the symbols
?X: that did not appear in the produced config.sh (Larry Wall).
?X:
?X: Do not touch the -u flag of uniq.  This means you too, Jarkko.
?X:
 $sed -n 's/^\([a-zA-Z_0-9]*\)=.*/\1/p' \
  config.sh config.sh UU/oldconfig.sh |\
  $sort | $uniq -u >UU/oldsyms
 set X `cat UU/oldsyms`
 shift
 case $# in
 0) ;;
 *)
  cat <<EOM
Hmm...You had some extra variables I don't know about...I'll
 try to keep 'em...
EOM
  echo ": Variables propagated from previous config.sh file." >>config.sh
  for sym in `cat UU/oldsyms`; do
   echo "    Propagating $hint variable '"$'"$sym..."
   eval 'tmp="$'"${sym}"'"'
   echo "$tmp" | \
    sed -e "s/'/'\'"\'"/g" -e "s/^/$sym='/" -e "s/$/'/" >>config.sh
  done
  ;;
 esac
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Oldsym.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_drand48_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_drand48_r drand48_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_stdlib extern_C
?MAKE: -pick add $@ %<
?S:d_drand48_r:
?S: This variable conditionally defines the HAS_DRAND48_R symbol,
```

```
?S: which indicates to the C program that the drand48_r()
?S: routine is available.
?S:.
?S:drand48_r_proto:
?S: This variable encodes the prototype of drand48_r.
?S: It is zero if d_drand48_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_drand48_r
?S: is defined.
?S:.
?C:HAS_DRAND48_R:
?C: This symbol, if defined, indicates that the drand48_r routine
?C: is available to drand48 re-entrantly.
?C:.
?C:DRAND48_R_PROTO:
?C: This
 symbol encodes the prototype of drand48_r.
?C: It is zero if d_drand48_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_drand48_r
?C: is defined.
?C:.
?H:#$d_drand48_r HAS_DRAND48_R /**/
?H:#define DRAND48_R_PROTO $drand48_r_proto /**/
?H:.
?T:try hdrs d_drand48_r_proto
: see if drand48_r exists
set drand48_r d_drand48_r
eval $inlibc
case "$d_drand48_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_stdlib stdlib.h"
 case "$d_drand48_r_proto:$usethreads" in
 ":define") d_drand48_r_proto=define
  set d_drand48_r_proto drand48_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_drand48_r_proto" in
 define)
 case "$drand48_r_proto" in
 "|0) try='int drand48_r(struct drand48_data*, double*);'
 ./protochk "$extern_C $try" $hdrs && drand48_r_proto=I_ST ;;
 esac
 case "$drand48_r_proto" in
 "|0) d_drand48_r=undef
  drand48_r_proto=0
  echo "Disabling drand48_r, cannot determine prototype." >&4 ;;
 * ) case
```

```
 "$drand48_r_proto" in
  REENTRANT_PROTO*) ;;
  *) drand48_r_proto="REENTRANT_PROTO_$drand48_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "drand48_r has no prototype, not using it." >&4 ;;
  esac
  d_drand48_r=undef
  drand48_r_proto=0
  ;;
 esac
 ;;
*) drand48_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_drand48_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sitearch.U,v 3.1 1999/07/08 18:32:29 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sitearch.U,v $
?RCS: Revision 3.1  1999/07/08 18:32:29  doughera
?RCS: Updated for perl5.005_5x
?RCS:
?RCS: Revision 3.0.1.1  1997/02/28  16:21:30  ram
?RCS: patch61: created
?RCS:
?MAKE:sitearch sitearchexp installsitearch d_sitearch: cat sed Getfile \
 Oldconfig Setprefixvar Prefixit test archname sitelib
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitearch="
?S:sitearch:
```

```
?S: This variable contains the eventual
 value of the SITEARCH symbol,
?S: which is the name of the private library for this package.  It may
?S: have a ~ on the front. It is up to the makefile to eventually create
?S: this directory while performing installation (with ~ substitution).
?S: The standard distribution will put nothing in this directory.
?S: After perl has been installed, users may install their own local
?S: architecture-dependent modules in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitearchexp="
?S:sitearchexp:
?S: This variable is the ~name expanded version of sitearch, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installsitearch="
?S:installsitearch:
?S: This variable is really the same as sitearchexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?D:d_sitearch="
?S:d_sitearch:
?S: This variable conditionally defines SITEARCH to hold the
 pathname
?S: of architecture-dependent library files for $package.  If
?S: $sitearch is the same as $archlib, then this is set to undef.
?S:.
?C:SITEARCH:
?C: This symbol contains the name of the private library for this package.
?C: The library is private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.  The program
?C: should be prepared to do ~ expansion.
?C: The standard distribution will put nothing in this directory.
?C: After perl has been installed, users may install their own local
?C: architecture-dependent modules in this directory with
?C:  MakeMaker Makefile.PL
?C: or equivalent.  See INSTALL for details.
?C:.
?C:SITEARCH_EXP:
?C: This symbol contains the ~name expanded version of SITEARCH, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#$d_sitearch SITEARCH "$sitearch"  /**/
?H:#$d_sitearch SITEARCH_EXP "$sitearchexp"  /**/
?H:.
?LINT:change prefixvar
```

```
?LINT:set installsitearch
?LINT:set
 sitearch
?LINT:set sitearchexp
: determine where site specific architecture-dependent libraries go.
: sitelib  default is /usr/local/lib/perl5/site_perl/$version
: sitearch default is /usr/local/lib/perl5/site_perl/$version/$archname
: sitelib may have an optional trailing /share.
case "$sitearch" in
") dflt=`echo $sitelib | $sed 's,/share$,,'`
 dflt="$dflt/$archname"
 ;;
*) dflt="$sitearch"
 ;;
esac
set sitearch sitearch none
eval $prefixit
$cat <<EOM

The installation process will also create a directory for
architecture-dependent site-specific extensions and modules.

EOM
fn=d~+
rp='Pathname for the site-specific architecture-dependent library files?'
. ./getfile
prefixvar=sitearch
. ./setprefixvar
if $test X"$sitearch" = X"$sitelib"; then
 d_sitearch="$undef"
else
 d_sitearch="$define"
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/sitearch.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: pidtype.U,v 3.0.1.1 1994/08/29 16:31:27 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
?RCS: $Log: pidtype.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:31:27  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:33  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:pidtype: Myread Typedef
?MAKE: -pick add $@ %<
?S:pidtype:
?S: This variable defines PIDTYPE to be something like pid_t, int,
?S: ushort, or whatever type is used to declare process ids in the kernel.
?S:.
?C:Pid_t (PIDTYPE):
?C: This
 symbol holds the type used to declare process ids in the kernel.
?C: It can be int, uint, pid_t, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Pid_t $pidtype  /* PID type */
?H:.
?LINT: set pidtype
: see what type pids are declared as in the kernel
rp="What is the type of process ids on this system?"
set pid_t pidtype int stdio.h sys/types.h
eval $typedef_ask
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/pidtype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pthrattrj.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_old_pthread_create_joinable old_pthread_create_joinable: \
 cat Compile rm_try Setvar usethreads i_pthread
?MAKE: -pick add $@ %<
?S:d_old_pthread_create_joinable:
?S: This variable conditionally defines pthread_create_joinable.
?S: undef if pthread.h defines PTHREAD_CREATE_JOINABLE.
?S:.
?S:old_pthread_create_joinable:
```

```
?S: This variable defines the constant to use for creating joinable
?S: (aka undetached) pthreads.  Unused if pthread.h defines
?S: PTHREAD_CREATE_JOINABLE.  If used, possible values are
?S: PTHREAD_CREATE_UNDETACHED and __UNDETACHED.
?S:.
?C:OLD_PTHREAD_CREATE_JOINABLE:
?C: This symbol, if defined, indicates how to create pthread
?C: in joinable (aka undetached)
 state.  NOTE: not defined
?C: if pthread.h already has defined PTHREAD_CREATE_JOINABLE
?C: (the new version of the constant).
?C: If defined, known values are PTHREAD_CREATE_UNDETACHED
?C: and __UNDETACHED.
?C:.
?H:#$d_old_pthread_create_joinable OLD_PTHREAD_CREATE_JOINABLE $old_pthread_create_joinable /**/
?H:.
: how to create joinable pthreads
if test "X$usethreads" = "X$define" -a "X$i_pthread" = "X$define"; then
 echo " "
 echo "Checking what constant to use for creating joinable pthreads..." >&4
 $cat >try.c <<'EOCP'
#include <pthread.h>
int main() {
   int detachstate = JOINABLE;
}
EOCP
 set try -DJOINABLE=PTHREAD_CREATE_JOINABLE
 if eval $compile; then
  echo "You seem to use PTHREAD_CREATE_JOINABLE." >&4
  val="$undef" # Yes, undef.
  set d_old_pthread_create_joinable
  eval $setvar
  val=""
  set old_pthread_create_joinable
  eval $setvar
 else
  set try -DJOINABLE=PTHREAD_CREATE_UNDETACHED
  if eval $compile; then
   echo "You seem to use PTHREAD_CREATE_UNDETACHED." >&4
   val="$define"
   set
 d_old_pthread_create_joinable
   eval $setvar
   val=PTHREAD_CREATE_UNDETACHED
   set old_pthread_create_joinable
   eval $setvar
  else
   set try -DJOINABLE=__UNDETACHED
```

```
   if eval $compile; then
    echo "You seem to use __UNDETACHED." >&4
    val="$define"
    set d_old_pthread_create_joinable
    eval $setvar
    val=__UNDETACHED
    set old_pthread_create_joinable
    eval $setvar
   else
    echo "Egads, nothing obvious found.  Guessing that you use 0." >&4
    val="$define"
    set d_old_pthread_create_joinable
    eval $setvar
    val=0
    set old_pthread_create_joinable
    eval $setvar
   fi
  fi
 fi
 $rm_try
else
   d_old_pthread_create_joinable="$undef"
   old_pthread_create_joinable=""
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_pthrattrj.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_rmdir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_rmdir.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_rmdir: Inlibc
?MAKE: -pick add $@ %<
?S:d_rmdir:
?S: This variable conditionally defines HAS_RMDIR if rmdir() is
```

```
?S: available to remove directories.
?S:.
?C:HAS_RMDIR (RMDIR):
?C: This symbol, if defined, indicates that the rmdir routine is
?C: available to remove directories. Otherwise you should fork off a
?C: new process to exec
 /bin/rmdir.
?C:.
?H:#$d_rmdir HAS_RMDIR  /**/
?H:.
?LINT:set d_rmdir
: see if rmdir exists
set rmdir d_rmdir
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_rmdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_hidnet.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_hidnet.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:20  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_hidnet hiddennet: cat sed myhostname mydomain Myread Oldconfig
?MAKE: -pick add $@ %<
?S:d_hidnet:
?S: This variable conditionally defines the symbol HIDDEN_NET, which
?S: tells the C program that it should pretend it is on a different
?S: host for purposes of advertising a mailing address.
?S:.
?S:hiddennet:
?S: This variable contains
 the value eventually given to the symbol
?S: HIDDEN_NET, if d_hidnet defines it.  If defined, it's the name
?S: of the host which serves as the mail server for a network that
?S: is invisible to the outside world.
?S:.
```

```
?C:HIDDEN_NET (HIDDENNET):
?C: This symbol, if defined, contains the host name that you want to
?C: advertise to the outside world.  This name can be different from
?C: your actual host name, as long as the machine you specify knows
?C: how to forward mail to you.
?C:.
?H:#$d_hidnet HIDDEN_NET "$hiddennet" /**/
?H:.
: now get the host name to advertise as our mailing address
case "$hiddennet" in
") dflt=n;;
*) dflt=y;;
esac
$cat <<EOM

Some sites are on "hidden" networks, in the sense that the network appears
to the outside world as a single machine.  The advertised name of any host
on this hidden network is the name of one machine on the local network which
knows how to forward mail to any other host on the hidden network.

Do you wish to advertise a different hostname
 to the world than the one your
own host ($myhostname$mydomain) has?

EOM
rp='Use "hidden" network?'
. ./myread
case "$ans" in
n*) d_hidnet="$undef" hiddennet=";;
*)
 d_hidnet="$define"
 echo " "
 case "$hiddennet" in
 ") dflt=`echo $mydomain | $sed -e 's/^\.//'`;;
 *) dflt="$hiddennet";;
 esac
 rp='What hostname do you wish to advertise?'
 . ./myread
 hiddennet="$ans"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_hidnet.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_wctomb.U 1 2006-08-24 12:32:52Z rmanfredi $

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_wctomb.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:20:43  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_wctomb: Inlibc
?MAKE: -pick add $@ %<
?S:d_wctomb:
?S: This variable conditionally defines the HAS_WCTOMB symbol, which
?S: indicates to the C program that the wctomb() routine is available
?S: to convert a wide character to a multibyte.
?S:.
?C:HAS_WCTOMB (WCTOMB):
?C: This
 symbol, if defined, indicates that the wctomb routine is available
?C: to convert a wide character to a multibyte.
?C:.
?H:#$d_wctomb HAS_WCTOMB  /**/
?H:.
?LINT:set d_wctomb
: see if wctomb exists
set wctomb d_wctomb
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_wctomb.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethbyad.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_gethbyaddr: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_gethbyaddr:
?S: This variable conditionally defines the HAS_GETHOSTBYADDR symbol, which
?S: indicates to the C program that the gethostbyaddr() routine is available
?S: to look up hosts by their IP addresses.
?S:.
?C:HAS_GETHOSTBYADDR:
?C: This symbol, if defined, indicates that the gethostbyaddr() routine is
?C: available to look up hosts by their IP addresses.
?C:.
?H:#$d_gethbyaddr HAS_GETHOSTBYADDR  /**/
?H:.
?LINT:set d_gethbyaddr
: see if gethostbyaddr exists
set gethostbyaddr d_gethbyaddr
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_gethbyad.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: man1dir.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:10:29  ram
?RCS: patch61: created
?RCS:
?X:
?X: This was originally specific to perl5.  Since perl5 has man pages that
?X: go in both man1/ and man3/ directories, we need both man1dir
?X: and man3dir.  This unit is basically dist's mansrc.U with
?X: man1 used instead of man everywhere.
?X:
?MAKE:man1dir man1direxp man1ext installman1dir: afs cat nroff Loc Oldconfig \
 spackage test Getfile Prefixit prefixexp
 Prefixup sysman Myread
?MAKE: -pick add $@ %<
?Y:TOP
?S:man1dir:
```

```
?S: This variable contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?S:man1direxp:
?S: This variable is the same as the man1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?S:installman1dir:
?S: This variable is really the same as man1direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man1direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:man1ext:
?S: This variable contains the extension that the manual page should
?S: have: one of 'n', 'l', or '1'.  The Makefile must supply the '.'.
?S: See man1dir.
?S:.
?T:lookpath
: determine
 where manual pages go
set man1dir man1dir none
eval $prefixit
$cat <<EOM

$spackage has manual pages available in source form.
EOM
case "$nroff" in
nroff)
 echo "However, you don't have nroff, so they're probably useless to you."
 case "$man1dir" in
 ") man1dir="none";;
 esac;;
esac
echo "If you don't want the manual sources installed, answer 'none'."
case "$man1dir" in
' ') dflt=none
 ;;
")
 lookpath="$prefixexp/man/man1 $prefixexp/man/l_man/man1"
 lookpath="$lookpath $prefixexp/man/p_man/man1"
 lookpath="$lookpath $prefixexp/man/u_man/man1"
 lookpath="$lookpath $prefixexp/man/man.1"
?X: Experience has shown people expect man1dir to be under prefix,
?X: so we now always put it there.  Users who want other behavior
?X: can answer interactively or use a command line option.
```

```
?X: Does user have System V-style man paths.
 case "$sysman" in
 */?_man*) dflt=`./loc . $prefixexp/l_man/man1 $lookpath` ;;
 *) dflt=`./loc . $prefixexp/man/man1 $lookpath` ;;
 esac
 set dflt
 eval $prefixup
 ;;
*)
  dflt="$man1dir"
 ;;
esac
echo " "
fn=dn+~
rp="Where do the main $spackage manual pages (source) go?"
. ./getfile
if $test "X$man1direxp" != "X$ansexp"; then
 installman1dir=''
fi
man1dir="$ans"
man1direxp="$ansexp"
case "$man1dir" in
'') man1dir=' '
 installman1dir='';;
esac
if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
manual pages reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installman1dir" in
 '') dflt=`echo $man1direxp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installman1dir";;
 esac
 fn=de~
 rp='Where will man pages be installed?'
 . ./getfile
 installman1dir="$ans"
else
 installman1dir="$man1direxp"
fi

: What suffix to use on installed man pages

case "$man1dir" in
```

```
' ')
 man1ext='0'
 ;;
*)
 rp="What suffix should be used for the main $spackage man pages?"
 case "$man1ext" in
 ") case "$man1dir" in
  *1)  dflt=1 ;;
  *1p)
 dflt=1p ;;
  *1pm) dflt=1pm ;;
  *l) dflt=l;;
  *n) dflt=n;;
  *o) dflt=o;;
  *p) dflt=p;;
  *C) dflt=C;;
  *L) dflt=L;;
  *L1) dflt=L1;;
  *) dflt=1;;
  esac
  ;;
 *) dflt="$man1ext";;
 esac
 . ./myread
 man1ext="$ans"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/man1dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, 2012 Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:ptrsize: cat rm_try Myread +cc +ccflags
?MAKE: -pick add $@ %<
?S:ptrsize:
?S: This variable contains the value of the PTRSIZE symbol, which
?S: indicates to the C program how many bytes there are in a pointer.
```

```
?S:.
?C:PTRSIZE:
?C: This symbol contains the size of a pointer, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define PTRSIZE $ptrsize  /**/
?H:.
?F:!try
: check for length of pointer
echo " "
case "$ptrsize" in
")
 echo "Checking to see how big your pointers are..."
 >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
 printf("%d\n", sizeof(char *));
}
EOCP
 if $cc $ccflags -o try try.c >/dev/null 2>&1 ; then
  dflt=`./try`
 else
  dflt='4'
  echo "(I can't seem to compile the test program.  Guessing...)"
 fi
 ;;
*)
 dflt="$ptrsize"
 ;;
esac
rp="What is the size of a pointer (in bytes)?"
. ./myread
ptrsize="$ans"
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/ptrsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_chsize.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_chsize.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_chsize: Inlibc
?MAKE: -pick add $@ %<
?S:d_chsize:
?S: This variable conditionally defines the CHSIZE symbol, which
?S: indicates to the C program that the chsize() routine is available
?S: to truncate files.  You might need a -lx to get this routine.
?S:.
?C:HAS_CHSIZE (CHSIZE):
?C: This symbol, if defined, indicates that the chsize
 routine is available
?C: to truncate files.  You might need a -lx to get this routine.
?C:.
?H:#$d_chsize HAS_CHSIZE  /**/
?H:.
?LINT:set d_chsize
: see if chsize exists
set chsize d_chsize
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_chsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_ilogbl: Inlibc
?MAKE: -pick add $@ %<
?S:d_ilogbl:
?S: This variable conditionally defines the HAS_ILOGBL symbol, which
?S: indicates to the C program that the ilogbl() routine is available
?S: for extracting the exponent of long double x as a signed integer.
?S: If scalbnl is also present we can emulate frexpl.
?S:.
?C:HAS_ILOGBL:
```

```
?C: This symbol, if defined, indicates that the ilogbl routine is
?C: available.  If scalbnl is also present we can emulate frexpl.
?C:.
?H:#$d_ilogbl HAS_ILOGBL  /**/
?H:.
?LINT:set d_ilogbl
: see if ilogbl exists
set ilogbl d_ilogbl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_ilogbl.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: setsid.C,v 3.0.1.1 1994/01/24 13:58:47 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* $Log: setsid.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:47  ram
* patch16: created
*
*/
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/lib/C/fake/setsid.C
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: usrinc.U,v 1.1 2000/06/27 00:20:28 jhi Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: usrinc.U,v $
```

```
?RCS: Revision 1.1  2000/06/27 00:20:28  jhi
?RCS: Initial revision
?RCS:
?RCS: Revision 3.0.1.3  1997/02/28  16:27:12  ram
?RCS: patch61: don't ask for the include path unless they are on a MIPS
?RCS:
?RCS: Revision 3.0.1.2  1995/05/12  12:24:36  ram
?RCS: patch54: ensure that ./mips always exists (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:18:31  ram
?RCS: patch23: ensure usrinc value is preserved across sessions (WED)
?RCS:
?RCS: Revision
 3.0  1993/08/18  12:09:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:usrinc incpath mips_type: test cat echo n c Getfile Guess \
 Oldconfig eunicefix contains rm sysroot cc
?MAKE: -pick add $@ %<
?S:usrinc:
?S: This variable holds the path of the include files, which is
?S: usually /usr/include. It is mainly used by other Configure units.
?S:.
?S:incpath:
?S: This variable must precede the normal include path to get the
?S: right one, as in "$incpath/usr/include" or "$incpath/usr/lib".
?S: Value can be "" or "/bsd43" on mips.
?S:.
?S:mips_type:
?S: This variable holds the environment type for the mips system.
?S: Possible values are "BSD 4.3" and "System V".
?S:.
?D:usrinc='/usr/include'
?LINT:extern cppflags
?LINT:create mips
?T:xxx_prompt
?F:./mips
: What should the include directory be ?
: Use sysroot if set, so findhdr looks in the right place.
echo " "
$echo $n "Hmm...  $c"
dflt="$sysroot/usr/include"
incpath="
?X: mips_type is used later, to add -DSYSTYPE_BSD43
 to cppflags if needed.
mips_type="
?X:
?X: Cannot put the following in Guess, or we get a circular dependency.
```

```
?X:
if $test -f /bin/mips && /bin/mips; then
 echo "Looks like a MIPS system..."
 $cat >usr.c <<'EOCP'
#ifdef SYSTYPE_BSD43
/bsd43
#endif
EOCP
 if $cc $cppflags -E usr.c > usr.out && $contains / usr.out >/dev/null 2>&1; then
  dflt='/bsd43/usr/include'
  incpath='/bsd43'
  mips_type='BSD 4.3'
 else
  mips_type='System V'
 fi
 $rm -f usr.c usr.out
 echo "and you're compiling with the $mips_type compiler and libraries."
 xxx_prompt=y
 echo "exit 0" >mips
else
 echo "Doesn't look like a MIPS system."
 xxx_prompt=n
 echo "exit 1" >mips
fi
chmod +x mips
$eunicefix mips
case "$usrinc" in
") ;;
*) dflt="$usrinc";;
esac
case "$xxx_prompt" in
y) fn=d/
 echo " "
 rp='Where are the include files you want to use?'
 . ./getfile
 usrinc="$ans"
 ;;
*) usrinc="$dflt"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/usrinc.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: prefshell.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: prefshell.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:28:13  ram
?RCS: patch36: added SHELL temporary since metalint now sees ${SHELL}
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:11:47  ram
?RCS: patch10: non-portable var substitution was used (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:34  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:prefshell: cat package Getfile Oldconfig ksh csh bash
?MAKE: -pick add $@ %<
?S:prefshell:
?S: This
 variable contains the eventual value of the PREFSHELL symbol,
?S: which contains the full name of the preferred user shell on this
?S: system.  Usual values are /bin/csh, /bin/ksh, /bin/sh.
?S:.
?C:PREFSHELL:
?C: This symbol contains the full name of the preferred user shell on this
?C: system.  Usual values are /bin/csh, /bin/ksh, /bin/sh.
?C:.
?H:#define PREFSHELL "$prefshell"  /**/
?H:.
?T:SHELL
: find out which shell people like to use most
case "$prefshell" in
")
 case "$ksh $bash $csh" in
 */ksh*) dflt="$ksh" ;;
 */bash*) dflt="$bash" ;;
 */csh*) dflt="$csh" ;;
 *) dflt='/bin/sh' ;;
 esac
 ;;
*)  dflt="$prefshell";;
esac
?X: Some shells (Ultrix) do not understand ${SHELL:-/bin/sh}, sigh!
$cat <<EOM
```

```
Give the full path name of the shell most people like to use on your system.
This will be used by $package whenever the user wants to get a shell
escape (for instance) and is not necessarily the same as the shell you are
currently using (${SHELL-/bin/sh}).

EOM
fn=f/~
rp='Preferred
 shell to be used?'
. ./getfile
prefshell=$ans
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/prefshell.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_time.U,v 3.0 1993/08/18 12:08:45 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: i_time.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit finds which "time" include to use. If 'timezone' is used by the
?X: program, we also try to find which header should be included. Eventually,
?X: we look for <sys/select.h> if I_SYSSELECT is used, to get struct timeval.
?X:
?MAKE:i_time i_systime i_systimek timeincl d_tm_tm_zone d_tm_tm_gmtoff: \
 Compile cat \
 contains rm_try echo n
 c +i_sysselct Findhdr Hasfield i_stdlib
?MAKE: -pick add $@ %<
?S:i_time:
?S: This variable unconditionally defines I_TIME, which indicates
?S: to the C program that it should include <time.h>.
?S:.
?S:i_systime:
?S: This variable conditionally defines I_SYS_TIME, which indicates
?S: to the C program that it should include <sys/time.h>.
```

```
?S:.
?S:i_systimek:
?S: This variable conditionally defines I_SYS_TIME_KERNEL, which
?S: indicates to the C program that it should include <sys/time.h>
?S: with KERNEL defined.
?S:.
?S:timeincl:
?S: This variable holds the full path of the included time header(s).
?S:.
?S:d_tm_tm_zone:
?S: This variable conditionally defines HAS_TM_TM_ZONE, which indicates
?S: to the C program that the struct tm has the tm_zone field.
?S:.
?S:d_tm_tm_gmtoff:
?S: This variable conditionally defines HAS_TM_TM_GMTOFF, which indicates
?S: to the C program that the struct tm has the tm_gmtoff field.
?S:.
?C:I_TIME (USE_TIME_H):
?C: This symbol is always defined, and indicates
 to the C program that
?C: it should include <time.h>.
?C:.
?C:I_SYS_TIME (I_SYSTIME USE_SYS_TIME_H NO_TIME_WITH_SYS_TIME):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/time.h>.
?C:.
?C:I_SYS_TIME_KERNEL (I_SYSTIMEKERNEL):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/time.h> with KERNEL defined.
?C:.
?C:HAS_TM_TM_ZONE:
?C: This symbol, if defined, indicates to the C program that
?C: the struct tm has a tm_zone field.
?C:.
?C:HAS_TM_TM_GMTOFF:
?C: This symbol, if defined, indicates to the C program that
?C: the struct tm has a tm_gmtoff field.
?C:.
?H:#$i_time I_TIME  /**/
?H:#$i_systime I_SYS_TIME  /**/
?H:#$i_systimek I_SYS_TIME_KERNEL  /**/
?H:#$d_tm_tm_zone HAS_TM_TM_ZONE  /**/
?H:#$d_tm_tm_gmtoff HAS_TM_TM_GMTOFF  /**/
?H:.
?W::timezone
?T:xselect flags sysselect s_timeval s_timezone
?LINT:change i_sysselct
?LINT:set d_tm_tm_zone
```

```
?LINT:set d_tm_tm_gmtoff
: see if we should include sys/time.h
echo
 " "
i_time='define'
if test "X$timeincl" = X; then
 echo "Testing to see if we should include <sys/time.h>." >&4
 $echo $n "I'm now running the test program...$c"
 $cat >try.c <<EOCP
#include <sys/types.h>
#include <time.h>
#ifdef I_SYSTIME
#ifdef SYSTIMEKERNEL
#define KERNEL
#endif
#include <sys/time.h>
#endif
#ifdef I_SYSSELECT
#include <sys/select.h>
#endif
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
{
 struct tm foo;
#ifdef S_TIMEVAL
 struct timeval bar;
#endif
#ifdef S_TIMEZONE
 struct timezone tzp;
#endif
 if (foo.tm_sec == foo.tm_sec)
  exit(0);
#ifdef S_TIMEVAL
 if (bar.tv_sec == bar.tv_sec)
  exit(0);
#endif
 exit(1);
}
EOCP
 flags=''
@if I_SYSSELECT
 if $contains 'timeval.*{' `./findhdr sys/select.h` >/dev/null 2>&1; then
  xselect='-DI_SYSSELECT'
 else
  xselect=''
```

```
 fi
@end
@if timezone
 for s_timezone in '-DS_TIMEZONE' ''; do
@else
 s_timezone=''
@end
?X: Every package is given a try with 'struct timeval'
@if I_SYSSELECT
 for sysselect in $xselect
 ''; do
@else
 sysselect=''
@end
 for s_timeval in '-DS_TIMEVAL' ''; do
 for i_systimek in '' '-DSYSTIMEKERNEL'; do
 for i_systime in '-DI_SYSTIME' ''; do
  case "$flags" in
  '') $echo $n ".$c"
   set try $i_systime $i_systimek $sysselect $s_timeval $s_timezone
   if eval $compile; then
    set X $i_systime $i_systimek $sysselect $s_timeval
    shift
    flags="$*"
    echo " "
    $echo $n "Succeeded with $flags$c"
   fi
   ;;
  esac
 done
 done
 done
@if I_SYSSELECT
 done
@end
@if timezone
 done
@end
 timeincl=''
 echo " "
 case "$flags" in
 *SYSTIMEKERNEL*) i_systimek="$define"
  timeincl=`./findhdr sys/time.h`
  echo "We'll include <sys/time.h> with KERNEL defined." >&4;;
 *) i_systimek="$undef";;
 esac
 case "$flags" in
 *I_SYSTIME*) i_systime="$define"
```

```
  timeincl=`./findhdr sys/time.h`" $timeincl"
  echo "We'll include <sys/time.h>." >&4;;
 *) i_systime="$undef";;
 esac
@if I_SYSSELECT
 case "$flags" in
 *I_SYSSELECT*) i_sysselct="$define"
  timeincl=`./findhdr sys/select.h`"
 $timeincl"
  echo "We'll also include <sys/select.h> to get struct timeval." >&4;;
 *) case "$i_sysselct" in
  ") i_sysselct="$undef";;
  esac
 esac
@end
 $rm_try
fi
: see if struct tm knows about tm_zone
case "$i_systime$i_time" in
*$define*)
	echo " "
	echo "Checking to see if your struct tm has tm_zone field..." >&4
	set d_tm_tm_zone tm tm_zone $i_systime sys/time.h $i_time time.h
	eval $hasfield
	;;
*)	val="$undef"
	set d_tm_tm_zone
	eval $setvar
	;;
esac
case "$d_tm_tm_zone" in
"$define")	echo "Yes, it does."	;;
*)		echo "No, it doesn't." ;;
esac
: see if struct tm knows about tm_gmtoff
case "$i_systime$i_time" in
*$define*)
	echo " "
	echo "Checking to see if your struct tm has tm_gmtoff field..." >&4
	set d_tm_tm_gmtoff tm tm_gmtoff $i_systime sys/time.h $i_time time.h
	eval $hasfield
	;;
*)	val="$undef"
	set d_tm_tm_gmtoff
	eval $setvar

   ;;
esac
```

```
case "$d_tm_tm_gmtoff" in
"$define")      echo "Yes, it does."   ;;
*)              echo "No, it doesn't." ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/i_time.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: contains.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: contains.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:contains: Nothing
?MAKE: -pick add $@ %<
?S:contains:
?S: This variable holds the command to do a grep with a proper return
?S: status.  On most sane systems it is simply "grep".  On insane systems
?S: it is a grep followed by a cat followed by a test.  This variable
?S: is primarily for the use of other Configure units.
?S:.
: Some
 greps do not return status, grrr.
echo "grimblepritz" >grimble
if grep blurfldyick grimble >/dev/null 2>&1 ; then
 contains=contains
elif grep grimblepritz grimble >/dev/null 2>&1 ; then
 contains=grep
else
 contains=contains
fi
rm -f grimble
: the following should work in any shell
case "$contains" in
contains*)
 echo " " >&4
 echo "AGH!  Grep doesn't return a status.  Attempting remedial action." >&4
```

```
 cat >contains <<'EOSS'
grep "$1" "$2" >.greptmp && cat .greptmp && test -s .greptmp
EOSS
contains=./contains
chmod +x $contains
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/contains.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: archlib.U,v 3.1 1999/07/08 18:32:29 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: archlib.U,v $
?RCS: Revision 3.1  1999/07/08 18:32:29  doughera
?RCS: Updated for perl5.005_5x
?RCS:
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:15:18  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/02/15  14:14:14  ram
?RCS: patch51: architecture name is now
 computed by a separate unit
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:32:22  ram
?RCS: patch49: archname is now systematically recomputed
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:02:36  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_archlib archlib archlibexp installarchlib: \
 cat Getfile Setprefixvar Loc Oldconfig archname spackage  \
 privlib sed test Prefixit Prefixup binexp
?MAKE: -pick add $@ %<
```

```
?Y:TOP
?S:d_archlib:
?S: This variable conditionally defines ARCHLIB to hold the pathname
?S: of architecture-dependent library files for $package.  If
?S: $archlib is the same as $privlib, then this is set to undef.
?S:.
?D:archlib=''
?S:archlib:
?S: This variable holds the name of the directory in which the user wants
?S: to put architecture-dependent public library files for $package.
?S: It is most often a local directory such as /usr/local/lib.
?S: Programs using this variable must be prepared to deal
?S: with
 filename expansion.
?S:.
?D:archlibexp=''
?S:archlibexp:
?S: This variable is the same as the archlib variable, but is
?S: filename expanded at configuration time, for convenient use.
?S:.
?D:installarchlib=''
?S:installarchlib:
?S: This variable is really the same as archlibexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?C:ARCHLIB:
?C: This variable, if defined, holds the name of the directory in
?C: which the user wants to put architecture-dependent public
?C: library files for $package.  It is most often a local directory
?C: such as /usr/local/lib.  Programs using this variable must be
?C: prepared to deal with filename expansion.  If ARCHLIB is the
?C: same as PRIVLIB, it is not defined, since presumably the
?C: program already searches PRIVLIB.
?C:.
?C:ARCHLIB_EXP:
?C: This symbol contains the ~name expanded version of ARCHLIB, to be used
?C: in programs that are not prepared to deal with ~ expansion
 at run-time.
?C:.
?H:#$d_archlib ARCHLIB "$archlib"  /**/
?H:#$d_archlib ARCHLIB_EXP "$archlibexp"  /**/
?H:.
?T: tdflt
?LINT:change prefixvar
?LINT:set archlib
?LINT:set archlibexp
?LINT:set installarchlib
```

```
: determine where public architecture dependent libraries go
set archlib archlib
eval $prefixit
: privlib default is /usr/local/lib/$package/$version
: archlib default is /usr/local/lib/$package/$version/$archname
: privlib may have an optional trailing /share.
tdflt=`echo $privlib | $sed 's,/share$,,'`
tdflt=$tdflt/$archname
case "$archlib" in
") dflt=$tdflt
 ;;
*) dflt="$archlib"
   ;;
esac
$cat <<EOM

$spackage contains architecture-dependent library files.  If you are
sharing libraries in a heterogeneous environment, you might store
these files in a separate location.  Otherwise, you can just include
them with the rest of the public library files.

EOM
?X: Force dependency on bin.U
fn=$binexp
fn=d+~
rp='Where do you want to put the public architecture-dependent libraries?'
.
 ./getfile
prefixvar=archlib
. ./setprefixvar
if $test X"$archlib" = X"$privlib"; then
 d_archlib="$undef"
else
 d_archlib="$define"
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/archlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_vfork.U,v 3.0.1.6 1994/08/29 16:18:21 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_vfork.U,v $
?RCS: Revision 3.0.1.6  1994/08/29  16:18:21  ram
?RCS: patch32: set default to 'y' the first time
?RCS:
?RCS: Revision 3.0.1.5  1994/06/20  06:59:14  ram
?RCS: patch30: usevfork was not always properly set
?RCS:
?RCS: Revision 3.0.1.4  1994/05/13  15:20:56  ram
?RCS: patch27: modified to avoid spurious Whoa warnings (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/05/06  14:59:09  ram
?RCS: patch23: now explicitly ask whether vfork() should be used
 (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1993/10/16  13:49:39  ram
?RCS: patch12: added magic for vfork()
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:06:57  ram
?RCS: patch10: removed automatic remapping of vfork on fork (WAD)
?RCS: patch10: added compatibility code for older config.sh (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_vfork usevfork d_pseudofork: Inlibc Myread Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_vfork:
?S: This variable conditionally defines the HAS_VFORK symbol, which
?S: indicates the vfork() routine is available.
?S:.
?S:usevfork:
?S: This variable is set to true when the user accepts to use vfork.
?S: It is set to false when no vfork is available or when the user
?S: explicitly requests not to use vfork.
?S:.
?S:d_pseudofork:
?S: This variable conditionally defines the HAS_PSEUDOFORK symbol,
?S: which indicates that an emulation of the fork routine is available.
?S:.
?C:HAS_VFORK (VFORK):
?C: This
 symbol, if defined, indicates that vfork() exists.
?C:.
?H:#$d_vfork HAS_VFORK /**/
?H:.
```

```
?C:HAS_PSEUDOFORK:
?C: This symbol, if defined, indicates that an emulation of the
?C: fork routine is available.
?C:.
?H:#$d_pseudofork HAS_PSEUDOFORK /**/
?H:.
?M:vfork: HAS_VFORK
?M:#ifndef HAS_VFORK
?M:#define vfork fork
?M:#endif
?M:.
?T:d_hvfork
: backward compatibility for d_hvfork
if test X$d_hvfork != X; then
 d_vfork="$d_hvfork"
 d_hvfork="
fi
?X:==========================
: see if there is a vfork
val="
set vfork val
eval $inlibc

d_pseudofork=$undef

: Ok, but do we want to use it. vfork is reportedly unreliable in
: perl on Solaris 2.x, and probably elsewhere.
case "$val" in
$define)
 echo " "
 case "$usevfork" in
 false) dflt='n';;
 *) dflt='y';;
 esac
 cat <<'EOM'

Perl can only use a vfork() that doesn't suffer from strict
restrictions on calling functions or modifying global data in
the child.  For example, glibc-2.1 contains such a vfork()
that is unsuitable.  If your system
 provides a proper fork()
call, chances are that you do NOT want perl to use vfork().

EOM
 rp="Do you still want to use vfork()?"
 . ./myread
 case "$ans" in
 y|Y) ;;
```

```
 *)
  echo "Ok, we won't use vfork()."
  val="$undef"
  ;;
 esac
 ;;
esac
?X:
?X: Only set it when final value is known to avoid spurious Whoa's
?X: Then set usevfork accordingly to the current value, for next run
?X:
set d_vfork
eval $setvar
case "$d_vfork" in
$define) usevfork='true';;
*) usevfork='false';;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_vfork.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getservbyport_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getservbyport_r getservbyport_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getservbyport_r:
?S: This variable conditionally defines the HAS_GETSERVBYPORT_R symbol,
?S: which indicates to the C program that the getservbyport_r()
?S: routine is available.
?S:.
?S:getservbyport_r_proto:
?S: This variable encodes the prototype of getservbyport_r.
?S: It is zero if d_getservbyport_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getservbyport_r
?S: is defined.
?S:.
?C:HAS_GETSERVBYPORT_R:
?C: This symbol, if defined, indicates
```

```
 that the getservbyport_r routine
?C: is available to getservbyport re-entrantly.
?C:.
?C:GETSERVBYPORT_R_PROTO:
?C: This symbol encodes the prototype of getservbyport_r.
?C: It is zero if d_getservbyport_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getservbyport_r
?C: is defined.
?C:.
?H:#$d_getservbyport_r HAS_GETSERVBYPORT_R /**/
?H:#define GETSERVBYPORT_R_PROTO $getservbyport_r_proto /**/
?H:.
?T:try hdrs d_getservbyport_r_proto
: see if getservbyport_r exists
set getservbyport_r d_getservbyport_r
eval $inlibc
case "$d_getservbyport_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getservbyport_r_proto:$usethreads" in
 ":define") d_getservbyport_r_proto=define
  set d_getservbyport_r_proto getservbyport_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getservbyport_r_proto" in
 define)
 case "$getservbyport_r_proto" in
 "|0) try='int getservbyport_r(int, const char*, struct servent*, char*, size_t,
 struct servent**);'
 ./protochk "$extern_C $try" $hdrs && getservbyport_r_proto=I_ICSBWR ;;
 esac
 case "$getservbyport_r_proto" in
 "|0) try='struct servent* getservbyport_r(int, const char*, struct servent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getservbyport_r_proto=S_ICSBI ;;
 esac
 case "$getservbyport_r_proto" in
 "|0) try='int getservbyport_r(int, const char*, struct servent*, struct servent_data*);'
 ./protochk "$extern_C $try" $hdrs && getservbyport_r_proto=I_ICSD ;;
 esac
 case "$getservbyport_r_proto" in
 "|0) d_getservbyport_r=undef
  getservbyport_r_proto=0
  echo "Disabling getservbyport_r, cannot determine prototype." >&4 ;;
 * ) case "$getservbyport_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getservbyport_r_proto="REENTRANT_PROTO_$getservbyport_r_proto" ;;
  esac
```

```
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getservbyport_r has no prototype, not using it." >&4 ;;
  esac
  d_getservbyport_r=undef
  getservbyport_r_proto=0
  ;;
 esac
 ;;
*) getservbyport_r_proto=0
 ;;
esac
```

Found
 in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getservbyport_r.U
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```
?RCS: $Id: d_strstr.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strstr.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:37  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strstr: Inlibc
?MAKE: -pick add $@ %<
?S:d_strstr:
?S: This variable conditionally defines HAS_STRSTR if strstr() is
?S: available to find substrings.
?S:.
?C:HAS_STRSTR (STRSTR):
?C: This symbol, if defined, indicates that the strstr routine is
?C: available to find substrings.
?C:.
?H:#$d_strstr HAS_STRSTR /**/
?H:.
?LINT:set d_strstr
```

```
:
 see if strstr exists
set strstr d_strstr
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strstr.U
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```
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?RCS:
?MAKE:d_strlcpy: Inlibc Hasproto d_gnulibc
?MAKE: -pick add $@ %<
?S:d_strlcpy:
?S: This variable conditionally defines the HAS_STRLCPY symbol, which
?S: indicates to the C program that the strlcpy () routine is available.
?S:.
?C:HAS_STRLCPY:
?C: This symbol, if defined, indicates that the strlcpy () routine is
?C: available to do string copying.
?C:.
?H:#$d_strlcpy HAS_STRLCPY  /**/
?H:.
?T:d_strlcpy_proto xx1 xx2 xx3 xx4
?LINT:set d_strlcpy
: see if strlcpy exists
: We need both a prototype in string.h and the symbol in libc.
echo " "
d_strlcpy_proto="
xx1="#$d_gnulibc HAS_GNULIBC"
xx2='#if defined(HAS_GNULIBC) && !defined(_GNU_SOURCE)'
xx3='#   define _GNU_SOURCE'
xx4='#endif'
set d_strlcpy_proto strlcpy
 literal "$xx1" literal "$xx2" literal "$xx3" literal "$xx4" define string.h
eval $hasproto
case "$d_strlcpy_proto" in
   define) # see if strlcpy exists
 set strlcpy d_strlcpy
 eval $inlibc
 ;;
   *)  val=$undef
```

```
 set d_strlcpy
 eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strlcpy.U
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```
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?RCS:
?MAKE:d_getmntent: Inlibc
?MAKE: -pick add $@ %<
?S:d_getmntent:
?S: This variable conditionally defines the HAS_GETMNTENT symbol, which
?S: indicates to the C program that the getmntent() routine is available
?S: to iterate through mounted files to get their mount info.
?S:.
?C:HAS_GETMNTENT:
?C: This symbol, if defined, indicates that the getmntent routine is
?C: available to iterate through mounted file systems to get their info.
?C:.
?H:#$d_getmntent HAS_GETMNTENT  /**/
?H:.
?LINT:set d_getmntent
: see if getmntent exists
set getmntent d_getmntent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_getmntent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
?MAKE:d_copysign: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_copysign:
?S: This variable conditionally defines the HAS_COPYSIGN symbol, which
?S: indicates to the C program that the copysign() routine is available.
?S:.
?C:HAS_COPYSIGN:
?C: This symbol, if defined, indicates that the copysign routine is
?C: available to do the copysign function.
?C:.
?H:#$d_copysign HAS_COPYSIGN  /**/
?H:.
?LINT:set d_copysign
: see if copysign exists
set copysign d_copysign
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_copysign.U
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```
?RCS: $Id: libflex.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libflex.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:57:48  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:07:02  ram
?RCS: patch23: now uses full library path instead of -l notation
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:13:25  ram
?RCS: patch16: un-obsoleted this unit to allow smooth lex/flex compilations
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:59  ram
?RCS: Baseline for dist 3.0 netwide
 release.
?RCS:
?MAKE:libflex: Loc lex libpth _a
?MAKE: -pick add $@ %<
?S:libflex:
```

```
?S: This variable contains the argument to pass to the loader in order
?S: to get the flex/lex library routines.  If there is no flex or flex
?S: library, it is null.
?S:.
?T:xxx
: see if we should include -lfl
echo " "
case "$lex" in
*flex)
 xxx=`./loc libfl$_a x $libpth`
 case "$xxx" in
 x)
  echo "No flex library found." >&4
  libflex=''
  ;;
 *)
  echo "flex library found in $xxx." >&4
  libflex="$xxx"
  ;;
 esac
 ;;
*lex)
 xxx=`./loc libl$_a x $libpth`
 case "$xxx" in
 x)
  echo "No lex library found." >&4
  libflex=''
  ;;
 *)
  echo "lex library found in $xxx." >&4
  libflex="$xxx"
  ;;
 esac
 ;;
*)
echo "You don't seem to have lex or flex, so I won't look for libraries." >&4
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/libflex.U
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```
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?RCS:
?MAKE:d_nextafter: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_nextafter:
?S: This variable conditionally defines HAS_NEXTAFTER if nextafter()
?S: is available to return the next machine representable double from
?S: x in direction y.
?S:.
?C:HAS_NEXTAFTER:
?C: This symbol, if defined, indicates that the nextafter routine is
?C: available to return the next machine representable double from
?C: x in direction y.
?C:.
?H:#$d_nextafter HAS_NEXTAFTER  /**/
?H:.
?LINT:set d_nextafter
: see if nextafter exists
set nextafter d_nextafter
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_nextafter.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: lns.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  07:05:52  ram
?RCS: patch30: created by ADO
?RCS:
?MAKE:issymlink: lns test rm
?MAKE: -pick add $@ %<
?S:issymlink:
?S: This variable holds the test command to test for a symbolic link
?S: (if they are supported).  Typical values include 'test -h' and
?S: 'test -L'.
?S:.
?T:pth p
?LINT:change PATH test
```

```
?LINT:extern newsh
: determine whether symbolic links are supported
echo
 " "
case "$lns" in
*"ln"*" -s")
 echo "Checking how to test for symbolic links..." >&4
 $lns blurfl sym
 if $test "X$issymlink" = X; then
?X:
?X: In some AIX 4 versions the (ksh) builtin test (-h) is broken.
?X:
  case "$newsh" in
  ") sh     -c "PATH= test -h sym" >/dev/null 2>&1 ;;
  *)  $newsh -c "PATH= test -h sym" >/dev/null 2>&1 ;;
  esac
  if test $? = 0; then
   issymlink="test -h"
  else
   echo "Your builtin 'test -h' may be broken." >&4
   case "$test" in
   /*) ;;
   *) pth=`echo $PATH | sed -e "s/$p_/ /g"`
    for p in $pth
    do
     if test -f "$p/$test"; then
      test="$p/$test"
      break
     fi
    done
    ;;
   esac
   case "$test" in
   /*)
    echo "Trying external '$test -h'." >&4
    issymlink="$test -h"
    if $test ! -h sym >/dev/null 2>&1; then
     echo "External '$test -h' is broken, too." >&4
     issymlink="
    fi
    ;;
   *) issymlink=" ;;
   esac
  fi
 fi
 if $test "X$issymlink" = X; then
  if $test -L sym 2>/dev/null; then
   issymlink="$test
```

```
 -L"
   echo "The builtin '$test -L' worked." >&4
  fi
 fi
 if $test "X$issymlink" != X; then
  echo "You can test for symbolic links with '$issymlink'." >&4
 else
  echo "I do not know how you can test for symbolic links." >&4
 fi
 $rm -f blurfl sym
 ;;
*) echo "No symbolic links, so not testing for their testing..." >&4
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/issymlink.U
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```
?RCS: $Id: i_libutil.U,v $
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_libutil: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_libutil:
?S: This variable conditionally defines the I_LIBUTIL symbol, and indicates
?S: whether a C program should include <libutil.h>.
?S:.
?C:I_LIBUTIL:
?C: This symbol, if defined, indicates that <libutil.h> exists and
?C: should be included.
?C:.
?H:#$i_libutil I_LIBUTIL  /**/
?H:.
?LINT:set i_libutil
: see if this is a libutil.h system
set libutil.h i_libutil
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_libutil.U

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```
?RCS: $Id: d_getsent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_getsent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getsent: Inlibc
?MAKE: -pick add $@ %<
?S:d_getsent:
?S: This variable conditionally defines HAS_GETSERVENT if getservent() is
?S: available to look up network services in some data base or another.
?S:.
?C:HAS_GETSERVENT:
?C: This symbol, if defined, indicates that the getservent() routine is
?C: available to look up network services in some
 data base or another.
?C:.
?H:#$d_getsent HAS_GETSERVENT  /**/
?H:.
?LINT:set d_getsent
: see if getservent exists
set getservent d_getsent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_getsent.U
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```
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```

```
?RCS:
?RCS: $Log: i_grp.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:20  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_grp: Inhdr
?MAKE: -pick add $@ %<
?S:i_grp:
?S: This variable conditionally defines the I_GRP symbol, and indicates
?S: whether a C program should include <grp.h>.
?S:.
?C:I_GRP:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <grp.h>.
?C:.
?H:#$i_grp I_GRP  /**/
?H:.
?LINT:set i_grp
: see if this is an grp system
set grp.h i_grp
eval $inhdr
```

Found
 in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_grp.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_keepsig.U,v $
?RCS: Revision 3.0.1.4  1995/07/25  13:57:56  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:26:25  ram
?RCS: patch45: protected "sh -c" within backquotes for Linux and SGI
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:13:59  ram
?RCS: patch36: call ./bsd explicitly instead of relying on PATH
?RCS:
```

```
?RCS: Revision 3.0.1.1  1993/10/16  13:48:47  ram
?RCS: patch12: comment for SIGNALS_KEPT was the other way round
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:06:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_keepsig: cat Compile rm Guess contains echo n c Setvar run
?MAKE: -pick add $@ %<
?S:d_keepsig:
?S: This variable contains the eventual value of the SIGNALS_KEPT symbol,
?S: which indicates to the C program if signal handlers need not reinstated
?S: after receipt of a signal.
?S:.
?C:SIGNALS_KEPT (PERSISTENT_SIGNAL):
?C: This symbol is defined if signal handlers needn't be reinstated after
?C: receipt of a signal.
?C:.
?H:#$d_keepsig SIGNALS_KEPT /**/
?H:.
?F:!try !try.out
?LINT:set d_keepsig
: see if signals are kept
val="$undef";
echo " "
echo "Checking to see if signal handlers stick around..." >&4
$cat >try.c <<'EOCP'
foo() {}

int main()
{
 signal(2, foo);
 kill(getpid(), 2);
 kill(getpid(), 2);
 printf("abc\n");
}
EOCP
set try
if eval $compile; then
?X: On AIX a single ./try will not work (with ksh)
?X: Backquotes required on Linux and SGI (prevents "ambiguous output redirect")
?X:
 (reported by Xavier LeVourch <xavierl@eiffel.com>)
 echo `sh -c $run ./try >try.out 2>/dev/null` >/dev/null
 if $contains abc try.out >/dev/null 2>&1; then
  echo "Yes, they do."
  val="$define";
 else
```

```
  echo "No, they don't."
 fi
else
 $echo $n "(I can't seem to compile the test program. Assuming $c"
 if ./bsd; then
  echo "they do.)"
  val="$define"
 else
  echo "they don't.)"
 fi
fi
set d_keepsig
eval $setvar
$rm -f try*
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_keepsig.U
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```
?RCS: $Id: d_endpent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_endpent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_endpent: Inlibc
?MAKE: -pick add $@ %<
?S:d_endpent:
?S: This variable conditionally defines HAS_ENDPROTOENT if endprotoent() is
?S: available to close whatever was being used for protocol queries.
?S:.
?C:HAS_ENDPROTOENT:
?C: This symbol, if defined, indicates that the endprotoent() routine is
?C: available to close whatever was being used
 for protocol queries.
?C:.
?H:#$d_endpent HAS_ENDPROTOENT  /**/
?H:.
?LINT:set d_endpent
```

```
: see if endprotoent exists
set endprotoent d_endpent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_endpent.U
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```
?RCS: $Id: i_sysselct.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysselct.U,v $
?RCS: Revision 3.0.1.1  1993/08/25  14:01:33  ram
?RCS: patch6: added default for i_sysselct
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Look wether <sys/select.h> exists
?X:
?MAKE:i_sysselct: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysselct:
?S: This variable conditionally defines I_SYS_SELECT, which indicates
?S: to the C program that it should include <sys/select.h> in
 order to
?S: get the definition of struct timeval.
?S:.
?C:I_SYS_SELECT (I_SYSSELECT):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/select.h> in order to get definition of struct timeval.
?C:.
?H:#$i_sysselct I_SYS_SELECT /**/
?H:.
?D:i_sysselct=''
?LINT:set i_sysselct
: see if sys/select.h has to be included
set sys/select.h i_sysselct
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sysselct.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?MAKE:usesocks: Myread Oldconfig Setvar spackage package
?MAKE: -pick add $@ %<
?Y:TOP
?S:usesocks:
?S: This variable conditionally defines the USE_SOCKS symbol,
?S: and indicates that Perl should be built to use SOCKS.
?S:.
?C:USE_SOCKS:
?C: This symbol, if defined, indicates that Perl should
?C: be built to use socks.
?C:.
?H:?%<:#$usesocks USE_SOCKS  /**/
?H:.
?D:usesocks="
?LINT:set usesocks
: check for requested SOCKS support
case "$usesocks" in
$define|true|[yY]*) dflt='y';;
*)
 dflt='n';;
esac
cat <<EOM

$spackage can be built to use the SOCKS proxy protocol library.
If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp="Build $package for SOCKS?"
. ./myread
case "$ans" in
y|Y) val="$define" ;;
```

```
*)      val="$undef" ;;
esac
set usesocks
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/usesocks.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: archname.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:24:32  ram
?RCS: patch61: changed the way the archname is mangled from uname
?RCS:
?RCS: Revision 3.0.1.2  1995/05/12  12:05:24  ram
?RCS: patch54: protect against spaces in "uname -m" output (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1995/02/15  14:14:21  ram
?RCS: patch51: created
?RCS:
?MAKE:archname myarchname: sed Loc Myread Oldconfig osname test rm
?MAKE: -pick add $@ %<
?S:archname:
?S: This variable is a short name to characterize the current
?S: architecture.
  It is used mainly to construct the default archlib.
?S:.
?S:myarchname:
?S: This variable holds the architecture name computed by Configure in
?S: a previous run. It is not intended to be perused by any user and
?S: should never be set in a hint file.
?S:.
?C:ARCHNAME:
?C: This symbol holds a string representing the architecture name.
?C: It may be used to construct an architecture-dependant pathname
?C: where library files may be held under a private library, for
?C: instance.
?C:.
```

```
?H:#define ARCHNAME "$archname"  /**/
?H:.
?T:xxx tarch
: determine the architecture name
echo " "
?X: We always recompute archname in case osname changes. However, we need
?X: to be careful since, as ADO rightfully pointed out, some systems pick
?X: silly architecture names (0001307135000-aix on AIX or 9000/715-ux under
?X: HP-UX). Therefore, we allow hint files to superseed our guess and ask
?X: the user for confirmation.
if xxx=`./loc arch blurfl $pth`; $test -f "$xxx"; then
 tarch=`arch`"-$osname"
elif
 xxx=`./loc uname blurfl $pth`; $test -f "$xxx" ; then
 if uname -m > tmparch 2>&1 ; then
  tarch=`$sed -e 's/ *$//' -e 's/ /_/g' \
   -e 's/$/"'-$osname/" tmparch`
 else
  tarch="$osname"
 fi
 $rm -f tmparch
else
 tarch="$osname"
fi
case "$myarchname" in
"|"$tarch") ;;
*)
 echo "(Your architecture name used to be $myarchname.)"
 archname=''
 ;;
esac
case "$archname" in
'') dflt="$tarch";;
*) dflt="$archname";;
esac
rp='What is your architecture name'
. ./myread
archname="$ans"
myarchname="$tarch"
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/archname.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_termio.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_termio.U,v $
?RCS: Revision 3.0.1.4  1994/10/29  16:20:54  ram
?RCS: patch36: call ./usg and ./Cppsym explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.3  1994/08/29  16:26:38  ram
?RCS: patch32: don't include all threee I_* symbols in config.h
?RCS: patch32: (had forgotten to undo this part last time)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:25:03  ram
?RCS: patch27: undone ADO's fix in previous patch since it was useless
?RCS:
?RCS:
 Revision 3.0.1.1  1994/05/06  15:05:23  ram
?RCS: patch23: now include all three defines in config.h (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_termio i_sgtty i_termios: test Inlibc Cppsym Guess Setvar Findhdr Warn run
?MAKE: -pick add $@ %<
?S:i_termio:
?S: This variable conditionally defines the I_TERMIO symbol, which
?S: indicates to the C program that it should include <termio.h> rather
?S: than <sgtty.h>.
?S:.
?S:i_termios:
?S: This variable conditionally defines the I_TERMIOS symbol, which
?S: indicates to the C program that the POSIX <termios.h> file is
?S: to be included.
?S:.
?S:i_sgtty:
?S: This variable conditionally defines the I_SGTTY symbol, which
?S: indicates to the C program that it should include <sgtty.h> rather
?S: than <termio.h>.
?S:.
?C:I_TERMIO:
?C: This symbol, if defined, indicates that the program should include
?C: <termio.h> rather than <sgtty.h>.  There are also differences in
?C: the
 ioctl() calls that depend on the value of this symbol.
?C:.
```

```
?C:I_TERMIOS:
?C: This symbol, if defined, indicates that the program should include
?C: the POSIX termios.h rather than sgtty.h or termio.h.
?C: There are also differences in the ioctl() calls that depend on the
?C: value of this symbol.
?C:.
?C:I_SGTTY:
?C: This symbol, if defined, indicates that the program should include
?C: <sgtty.h> rather than <termio.h>.  There are also differences in
?C: the ioctl() calls that depend on the value of this symbol.
?C:.
?H:#$i_termio I_TERMIO  /**/
?H:#$i_termios I_TERMIOS  /**/
?H:#$i_sgtty I_SGTTY  /**/
?H:.
?T:val2 val3
?LINT:set i_termio i_sgtty i_termios
: see if this is a termio system
val="$undef"
val2="$undef"
val3="$undef"
?X: Prefer POSIX-approved termios.h over all else
if $test `./findhdr termios.h`; then
   set tcsetattr i_termios
   eval $inlibc
   val3="$i_termios"
fi
echo " "
case "$val3" in
   "$define") echo "You have POSIX termios.h... good!" >&4;;
   *)
  if ./Cppsym pyr; then
     case "`$run /bin/universe`" in
  ucb) if $test `./findhdr sgtty.h`; then
   val2="$define"
   echo "<sgtty.h> found." >&4
      else
   echo "System is pyramid with BSD universe."
   ./warn "<sgtty.h> not found--you could have problems."
      fi;;
  *)  if $test `./findhdr termio.h`; then
   val="$define"
   echo "<termio.h> found." >&4
      else
   echo "System is pyramid with USG universe."
   ./warn "<termio.h> not found--you could have problems."
      fi;;
    esac
```

```
?X: Start with USG to avoid problems if both usg/bsd was guessed
 elif ./usg; then
    if $test `./findhdr termio.h`; then
  echo "<termio.h> found." >&4
  val="$define"
    elif $test `./findhdr sgtty.h`; then
  echo "<sgtty.h> found." >&4
  val2="$define"
    else
  ./warn "Neither <termio.h> nor <sgtty.h> found--cross fingers!"
    fi
 else
    if $test `./findhdr sgtty.h`; then
  echo "<sgtty.h> found." >&4
  val2="$define"
    elif $test `./findhdr termio.h`; then
  echo "<termio.h>
 found." >&4
  val="$define"
    else
  ./warn "Neither <sgtty.h> nor <termio.h> found--cross fingers!"
    fi
 fi;;
esac
set i_termio; eval $setvar
val=$val2; set i_sgtty; eval $setvar
val=$val3; set i_termios; eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_termio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_lrintl: Inlibc
?MAKE: -pick add $@ %<
?S:d_lrintl:
?S: This variable conditionally defines the HAS_LRINTL symbol, which
?S: indicates to the C program that the lrintl() routine is available
?S: to return the integral value closest to a long double (according
?S: to the current rounding mode).
?S:.
?C:HAS_LRINTL:
?C: This symbol, if defined, indicates that the lrintl routine is
?C: available to return the integral value closest to a long double
?C: (according to the current rounding mode).
```

```
?C:.
?H:#$d_lrintl HAS_LRINTL  /**/
?H:.
?LINT:set d_lrintl
: see if lrintl exists
set lrintl d_lrintl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_lrintl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getgrnam_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getgrnam_r getgrnam_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_grp extern_C
?MAKE: -pick add $@ %<
?S:d_getgrnam_r:
?S: This variable conditionally defines the HAS_GETGRNAM_R symbol,
?S: which indicates to the C program that the getgrnam_r()
?S: routine is available.
?S:.
?S:getgrnam_r_proto:
?S: This variable encodes the prototype of getgrnam_r.
?S: It is zero if d_getgrnam_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getgrnam_r
?S: is defined.
?S:.
?C:HAS_GETGRNAM_R:
?C: This symbol, if defined, indicates that the getgrnam_r routine
?C: is available to
 getgrnam re-entrantly.
?C:.
?C:GETGRNAM_R_PROTO:
?C: This symbol encodes the prototype of getgrnam_r.
?C: It is zero if d_getgrnam_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getgrnam_r
?C: is defined.
?C:.
?H:#$d_getgrnam_r HAS_GETGRNAM_R /**/
?H:#define GETGRNAM_R_PROTO $getgrnam_r_proto /**/
```

```
?H:.
?T:try hdrs d_getgrnam_r_proto
: see if getgrnam_r exists
set getgrnam_r d_getgrnam_r
eval $inlibc
case "$d_getgrnam_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_grp grp.h"
 case "$d_getgrnam_r_proto:$usethreads" in
 ":define") d_getgrnam_r_proto=define
  set d_getgrnam_r_proto getgrnam_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getgrnam_r_proto" in
 define)
 case "$getgrnam_r_proto" in
 "|0) try='int getgrnam_r(const char*, struct group*, char*, size_t, struct group**);'
 ./protochk "$extern_C $try" $hdrs && getgrnam_r_proto=I_CSBWR ;;
 esac
 case "$getgrnam_r_proto" in
 "|0) try='int getgrnam_r(const char*, struct group*, char*,
 int, struct group**);'
 ./protochk "$extern_C $try" $hdrs && getgrnam_r_proto=I_CSBIR ;;
 esac
 case "$getgrnam_r_proto" in
 "|0) try='struct group* getgrnam_r(const char*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getgrnam_r_proto=S_CBI ;;
 esac
 case "$getgrnam_r_proto" in
 "|0) try='int getgrnam_r(const char*, struct group*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getgrnam_r_proto=I_CSBI ;;
 esac
 case "$getgrnam_r_proto" in
 "|0) try='struct group* getgrnam_r(const char*, struct group*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getgrnam_r_proto=S_CSBI ;;
 esac
 case "$getgrnam_r_proto" in
 "|0) d_getgrnam_r=undef
  getgrnam_r_proto=0
  echo "Disabling getgrnam_r, cannot determine prototype." >&4 ;;
 * ) case "$getgrnam_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getgrnam_r_proto="REENTRANT_PROTO_$getgrnam_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
```

```
 *) case "$usethreads" in
  define) echo "getgrnam_r has no prototype, not using it."
 >&4 ;;
  esac
  d_getgrnam_r=undef
  getgrnam_r_proto=0
  ;;
 esac
 ;;
*) getgrnam_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getgrnam_r.U
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```
?RCS: $Id$
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_isascii.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:13:39  ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:09:32  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_isascii: cc cat ccflags ldflags rm libs Setvar
?MAKE: -pick add $@ %<
?S:d_isascii:
?S: This variable conditionally defines the HAS_ISASCII constant,
?S: which indicates to the C program that isascii()
 is available.
?S:.
?C:HAS_ISASCII:
?C: This manifest constant lets the C program know that isascii
?C: is available.
?C:.
```

```
?H:#$d_isascii HAS_ISASCII  /**/
?H:.
?LINT:set d_isascii
?X: Can't use Inlibc because isascii() might be a macro.
: Look for isascii
echo " "
$cat >isascii.c <<'EOCP'
#include <stdio.h>
#include <ctype.h>
int main() {
 int c = 'A';
 if (isascii(c))
  exit(0);
 else
  exit(1);
}
EOCP
if $cc $ccflags $ldflags -o isascii isascii.c $libs >/dev/null 2>&1 ; then
 echo "isascii() found." >&4
 val="$define"
else
 echo "isascii() NOT found." >&4
 val="$undef"
fi
set d_isascii
eval $setvar
$rm -f isascii*
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_isascii.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethostbyaddr_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_gethostbyaddr_r gethostbyaddr_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_gethostbyaddr_r:
?S: This variable conditionally defines the HAS_GETHOSTBYADDR_R symbol,
?S: which indicates to the C program that the gethostbyaddr_r()
?S: routine is available.
```

```
?S:.
?S:gethostbyaddr_r_proto:
?S: This variable encodes the prototype of gethostbyaddr_r.
?S: It is zero if d_gethostbyaddr_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gethostbyaddr_r
?S: is defined.
?S:.
?C:HAS_GETHOSTBYADDR_R:
?C: This symbol, if defined, indicates
 that the gethostbyaddr_r routine
?C: is available to gethostbyaddr re-entrantly.
?C:.
?C:GETHOSTBYADDR_R_PROTO:
?C: This symbol encodes the prototype of gethostbyaddr_r.
?C: It is zero if d_gethostbyaddr_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gethostbyaddr_r
?C: is defined.
?C:.
?H:#$d_gethostbyaddr_r HAS_GETHOSTBYADDR_R /**/
?H:#define GETHOSTBYADDR_R_PROTO $gethostbyaddr_r_proto /**/
?H:.
?T:try hdrs d_gethostbyaddr_r_proto
: see if gethostbyaddr_r exists
set gethostbyaddr_r d_gethostbyaddr_r
eval $inlibc
case "$d_gethostbyaddr_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_gethostbyaddr_r_proto:$usethreads" in
 ":define") d_gethostbyaddr_r_proto=define
  set d_gethostbyaddr_r_proto gethostbyaddr_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_gethostbyaddr_r_proto" in
 define)
 case "$gethostbyaddr_r_proto" in
 "|0) try='int gethostbyaddr_r(const char*, size_t, int, struct hostent*, char*,
 size_t, struct hostent**, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=I_CWISBWRE ;;
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) try='struct hostent* gethostbyaddr_r(const char*, size_t, int, struct hostent*, char*, size_t, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_CWISBWIE ;;
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) try='struct hostent* gethostbyaddr_r(const char*, size_t, int, struct hostent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_CWISBIE ;;
```

```
esac
case "$gethostbyaddr_r_proto" in
"|0) try='struct hostent* gethostbyaddr_r(const void*, size_t, int, struct hostent*, char*, int, int*);'
./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_TWISBIE ;;
esac
case "$gethostbyaddr_r_proto" in
"|0) try='struct hostent* gethostbyaddr_r(const char*, int, int, struct hostent*, char*, int, int*);'
./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_CIISBIE ;;
esac
case
"$gethostbyaddr_r_proto" in
"|0) try='struct hostent* gethostbyaddr_r(const char*, struct hostent*, char*, int, int*);'
./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_CSBIE ;;
esac
case "$gethostbyaddr_r_proto" in
"|0) try='struct hostent* gethostbyaddr_r(const void*, struct hostent*, char*, int, int*);'
./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_TSBIE ;;
esac
case "$gethostbyaddr_r_proto" in
"|0) try='int gethostbyaddr_r(const char*, size_t, int, struct hostent*, struct hostent_data*);'
./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=I_CWISD ;;
esac
case "$gethostbyaddr_r_proto" in
"|0) try='int gethostbyaddr_r(const char*, int, int, struct hostent*, struct hostent_data*);'
./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=I_CIISD ;;
esac
case "$gethostbyaddr_r_proto" in
"|0) try='int gethostbyaddr_r(const char*, int, int);'
./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=I_CII ;;
esac
case
"$gethostbyaddr_r_proto" in
"|0) try='int gethostbyaddr_r(const void*, socklen_t, int, struct hostent*, char*, size_t, struct hostent**, int*);'
./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=I_TsISBWRE ;;
esac
case "$gethostbyaddr_r_proto" in
"|0) d_gethostbyaddr_r=undef
 gethostbyaddr_r_proto=0
 echo "Disabling gethostbyaddr_r, cannot determine prototype." >&4 ;;
* ) case "$gethostbyaddr_r_proto" in
 REENTRANT_PROTO*) ;;
 *) gethostbyaddr_r_proto="REENTRANT_PROTO_$gethostbyaddr_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "gethostbyaddr_r has no prototype, not using it." >&4 ;;
```

```
  esac
  d_gethostbyaddr_r=undef
  gethostbyaddr_r_proto=0
  ;;
 esac
 ;;
*) gethostbyaddr_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_gethostbyaddr_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_select.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_select.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_select: Inlibc
?MAKE: -pick add $@ %<
?S:d_select:
?S: This variable conditionally defines HAS_SELECT if select() is
?S: available to select active file descriptors. A <sys/time.h>
?S: inclusion may be necessary for the timeout field.
?S:.
?C:HAS_SELECT:
?C: This symbol, if defined, indicates that the select routine is
?C: available
 to select active file descriptors. If the timeout field
?C: is used, <sys/time.h> may need to be included.
?C:.
?H:#$d_select HAS_SELECT /**/
?H:.
?LINT:set d_select
: see if select exists
set select d_select
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_select.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strftime.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:36  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strftime: Inlibc
?MAKE: -pick add $@ %<
?S:d_strftime:
?S: This variable conditionally defines HAS_STRFTIME if strftime() is
?S: available to format locale-specific times.
?S:.
?C:HAS_STRFTIME:
?C: This symbol, if defined, indicates that the strftime routine is
?C: available to format locale-specific times.
?C:.
?H:#$d_strftime HAS_STRFTIME /**/
?H:.
?LINT:set d_strftime
: see
 if strftime exists
set strftime d_strftime
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strftime.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fgetpos.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_fgetpos.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  06:57:33  ram
?RCS: patch30: created
?RCS:
?MAKE:d_fgetpos: Inlibc
?MAKE: -pick add $@ %<
?S:d_fgetpos:
?S: This variable conditionally defines HAS_FGETPOS if fgetpos() is
?S: available to get the file position indicator.
?S:.
?C:HAS_FGETPOS:
?C: This symbol, if defined, indicates that the fgetpos routine is
?C: available to get the file position indicator, similar to ftell().
?C:.
?H:#$d_fgetpos
 HAS_FGETPOS /**/
?H:.
?LINT:set d_fgetpos
: see if fgetpos exists
set fgetpos d_fgetpos
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_fgetpos.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_neterrno.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:20:29  ram
?RCS: patch36: forgot to initialize 'val' to an empty value (ADO)
?RCS:
```

```
?RCS: Revision 3.0.1.2  1994/08/29  16:22:10  ram
?RCS: patch32: removed spurious echo
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:02:05  ram
?RCS: patch30: created by ADO
?RCS:
?MAKE:i_neterrno: Inhdr +cc +ccflags rm_try Setvar
?MAKE: -pick add $@ %<
?S:i_neterrno:
?S: This variable
 conditionally defines the I_NET_ERRNO symbol, which
?S: indicates to the C program that <net/errno.h> exists and should
?S: be included.
?S:.
?C:I_NET_ERRNO:
?C: This symbol, if defined, indicates that <net/errno.h> exists and
?C: should be included.
?C:.
?H:#$i_neterrno I_NET_ERRNO  /**/
?H:.
?LINT:set i_neterrno
: see if net/errno.h is available
val="
set net/errno.h val
eval $inhdr

: Unfortunately, it causes problems on some systems.  Arrgh.
case "$val" in
$define)
 cat > try.c <<'EOM'
#include <stdio.h>
#include <errno.h>
#include <net/errno.h>
int func()
{
 return ENOTSOCK;
}
EOM
 if $cc $ccflags -c try.c >/dev/null 2>&1; then
  echo "We'll be including <net/errno.h>." >&4
 else
  echo "We won't be including <net/errno.h>." >&4
  val="$undef"
 fi
 $rm_try
 ;;
esac
set i_neterrno
```

```
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_neterrno.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sethent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_sethent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sethent: Inlibc
?MAKE: -pick add $@ %<
?S:d_sethent:
?S: This variable conditionally defines HAS_SETHOSTENT if sethostent() is
?S: available.
?S:.
?C:HAS_SETHOSTENT:
?C: This symbol, if defined, indicates that the sethostent() routine is
?C: available.
?C:.
?H:#$d_sethent HAS_SETHOSTENT  /**/
?H:.
?LINT:set d_sethent
: see if sethostent exists
set
 sethostent d_sethent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_sethent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_gethent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_gethent: Inlibc
?MAKE: -pick add $@ %<
?S:d_gethent:
?S: This variable conditionally defines HAS_GETHOSTENT if gethostent() is
?S: available to dup file descriptors.
?S:.
?C:HAS_GETHOSTENT (GETHOSTENT):
?C: This symbol, if defined, indicates that the gethostent routine is
?C: available to lookup host names in some data base or other.
?C:.
?H:#$d_gethent HAS_GETHOSTENT  /**/
?H:.
?LINT:set
 d_gethent
: see if gethostent exists
set gethostent d_gethent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_gethent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Hasproto.U $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X: This unit generates a $hasproto string that is used internally
?X: by Configure to check if this system has a prototype for a
?X: particular function
?X:
?X: To use it, say something like:
?X:  set d_getnetent_proto getnetent $i_netdb netdb.h
?X:  eval $hasproto
?X: Or, for more complicated sets of headers, do something like
```

```
?X: hdrs="$define sys/types.h
?X:  $i_systime sys/time.h
?X:  $i_sysselct sys/select.h
?X:  $i_netdb netdb.h"
?X: set d_getnetent_proto getnetent $hdrs
?X: eval $hasproto
?X:
?X: There is also an 'escape' hatch built in.  If you have a pair
?X: of args   'literal 'stuff' then 'stuff' gets included literally
?X: into the test program.  See Protochk.U for more details.
?X:
?MAKE:Hasproto:
 Setvar cppstdin cppflags cppminus contains rm_try test
?MAKE: -pick add $@ %<
?T:func varname
?F:!try.c
?V:hasproto
: Define hasproto macro for Configure internal use
hasproto='varname=$1; func=$2; shift; shift;
while $test $# -ge 2; do
 case "$1" in
 $define) echo "#include <$2>";;
 literal) echo "$2" ;;
 esac ;
   shift 2;
done > try.c;
$cppstdin $cppflags $cppminus < try.c > tryout.c 2>/dev/null;
if $contains "$func.*(" tryout.c >/dev/null 2>&1; then
 echo "$func() prototype found.";
 val="$define";
else
 echo "$func() prototype NOT found.";
 val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try tryout.c'
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/Hasproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_mntent.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_mntent: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_mntent:
?S: This variable conditionally defines the I_MNTENT symbol, and indicates
?S: whether a C program should include <mntent.h>.
?S:.
?C:I_MNTENT:
?C: This symbol, if defined, indicates that <mntent.h> exists and
?C: should be included.
?C:.
?H:#$i_mntent I_MNTENT  /**/
?H:.
?LINT:set i_mntent
: see if this is a mntent.h system
set mntent.h i_mntent
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_mntent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: privlib.U,v $
?RCS: Revision 3.0.1.4  1995/09/25  09:17:09  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:44:23  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:31:52  ram
?RCS: patch32: now uses installation prefix
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:12:34  ram
?RCS: patch10: added support for /local/lib (WED)
?RCS: patch10: prompt phrasing made
```

```
 more explicit (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:privlib privlibexp installprivlib: afs package cat Getfile \
 Oldconfig Prefixit test
?MAKE: -pick add $@ %<
?Y:TOP
?S:privlib:
?S: This variable contains the eventual value of the PRIVLIB symbol,
?S: which is the name of the private library for this package.  It may
?S: have a ~ on the front. It is up to the makefile to eventually create
?S: this directory while performing installation (with ~ substitution).
?S:.
?S:privlibexp:
?S: This variable is the ~name expanded version of privlib, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?S:installprivlib:
?S: This variable is really the same as privlibexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?C:PRIVLIB:
?C: This symbol contains the name of the private library for this package.
?C: The library is
 private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.  The program
?C: should be prepared to do ~ expansion.
?C:.
?C:PRIVLIB_EXP:
?C: This symbol contains the ~name expanded version of PRIVLIB, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#define PRIVLIB "$privlib"  /**/
?H:#define PRIVLIB_EXP "$privlibexp"  /**/
?H:.
: determine where private executables go
set dflt privlib lib/$package
eval $prefixit
$cat <<EOM

There are some auxiliary files for $package that need to be put into a
private library directory that is accessible by everyone.

EOM
fn=d~+
```

```
rp='Pathname where the private library files will reside?'
. ./getfile
if $test "X$privlibexp" != "X$ansexp"; then
 installprivlib=''
fi
privlib="$ans"
privlibexp="$ansexp"
if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
private files reside from the directory in which they are installed
 (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installprivlib" in
 '') dflt=`echo $privlibexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installprivlib";;
 esac
 fn=de~
 rp='Where will private files be installed?'
 . ./getfile
 installprivlib="$ans"
else
 installprivlib="$privlibexp"
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/privlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_symlink.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_symlink.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:41  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_symlink: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_symlink:
?S: This variable conditionally defines the HAS_SYMLINK symbol, which
?S: indicates to the C program that the symlink() routine is available
?S: to create symbolic links.
?S:.
?C:HAS_SYMLINK (SYMLINK):
?C: This symbol, if defined, indicates that the symlink routine is available
?C: to
 create symbolic links.
?C:.
?H:#$d_symlink HAS_SYMLINK /**/
?H:.
?LINT:set d_symlink
: see if symlink exists
set symlink d_symlink
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_symlink.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sigaction.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:44:29  ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_sigaction: Csym Setvar cat cc ccflags ldflags libs rm _o
?MAKE: -pick add $@ %<
?S:d_sigaction:
?S: This variable conditionally defines the HAS_SIGACTION symbol, which
?S: indicates that the Vr4 sigaction() routine is available.
?S:.
?C:HAS_SIGACTION:
?C: This symbol, if defined, indicates that Vr4's sigaction() routine
?C: is available.
?C:.
```

```
?H:#$d_sigaction HAS_SIGACTION /**/
?H:.
?T:val
?LINT:set
 d_sigaction
: see if we have sigaction
echo " "
if set sigaction val -f d_sigaction; eval $csym; $val; then
 echo 'sigaction() found.' >&4
 val="$define"
else
 echo 'sigaction NOT found.' >&4
 val="$undef"
fi
?X:
?X: Solaris 2.5_x86 with SunWorks Pro C 3.0.1 doesn't have a complete
?X: sigaction structure if compiled with cc -Xc.  This compile test
?X: will fail then.  <doughera@lafcol.lafayette.edu>
?X:
$cat > set.c <<'EOP'
#include <stdio.h>
#include <sys/types.h>
#include <signal.h>
int main()
{
   struct sigaction act, oact;
}
EOP
if $cc $ccflags $ldflags -o set set.c $libs >/dev/null 2>&1; then
 :
else
 echo "But you don't seem to have a useable struct sigaction." >&4
 val="$undef"
fi
set d_sigaction; eval $setvar
$rm -f set set$_o set.c
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sigaction.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS:
?MAKE:i_fenv: Inhdr
?MAKE: -pick add $@ %<
?S:i_fenv:
```

```
?S: This variable conditionally defines the I_FENV symbol, which
?S: indicates to the C program that <fenv.h> exists and should
?S: be included.
?S:.
?C:I_FENV:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <fenv.h> to get the floating point environment definitions.
?C:.
?H:#$i_fenv I_FENV  /**/
?H:.
?LINT:set i_fenv
: see if this is a fenv.h system
set fenv.h i_fenv
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_fenv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getgrps.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getgrps.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getgrps: Inlibc
?MAKE: -pick add $@ %<
?S:d_getgrps:
?S: This variable conditionally defines the HAS_GETGROUPS symbol, which
?S: indicates to the C program that the getgroups() routine is available
?S: to get the list of process groups.
?S:.
?C:HAS_GETGROUPS (GETGROUPS):
?C: This symbol, if defined, indicates that the getgroups()
 routine is
?C: available to get the list of process groups.  If unavailable, multiple
?C: groups are probably not supported.
?C:.
?H:#$d_getgrps HAS_GETGROUPS  /**/
```

```
?H:.
?LINT:set d_getgrps
: see if getgroups exists
set getgroups d_getgrps
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getgrps.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorman3dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999-2000, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorman3dir.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorman3dir vendorman3direxp installvendorman3dir: man3dir Getfile \
 Oldconfig Setprefixvar Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorman3dir:
?S: This variable contains the name of the directory for man3
?S: pages.  It may have a ~ on the front.
?S: The standard distribution will put nothing in this directory.
?S: Vendors
 who distribute perl may wish to place their own
?S: man3 pages in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorman3direxp:
?S: This variable is the ~name expanded version of vendorman3dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorman3dir=''
?S:installvendorman3dir:
?S: This variable is really the same as vendorman3direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
```

```
?S:.
?LINT:change prefixvar
?LINT:set installvendorman3dir
: Set the vendorman3dir variables
case "$vendorprefix" in
") vendorman3dir="
 vendorman3direxp="
 ;;
*) : determine where vendor-supplied module manual pages go.
 case "$vendorman3dir" in
 ") dflt=`echo "$man3dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
 *) dflt=$vendorman3dir ;;
 esac
 case "$dflt" in
 "|' ') dflt=none ;;
 esac
 fn=nd~+
 rp='Pathname
 for the vendor-supplied manual section 3 pages?'
 . ./getfile
 vendorman3dir="$ans"
 vendorman3direxp="$ansexp"
 ;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorman3dir" = "X" && vendorman3dir=' '
prefixvar=vendorman3dir
. ./installprefix
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/vendorman3dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strerror_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_strerror_l:
?S: This variable conditionally defines the HAS_STRERROR_L symbol, which
?S: indicates to the C program that the strerror_l() routine is available
?S: to return the error message for a given errno value in a particular
?S: locale (identified by a locale_t object).
?S:.
?C:HAS_STRERROR_L:
?C: This symbol, if defined, indicates that the strerror_l routine is
?C: available to return the error message for a given errno value in
```

```
?C: a particular locale (identified by a locale_t object).
?C:.
?H:#$d_strerror_l HAS_STRERROR_L  /**/
?H:.
?LINT:set d_strerror_l
: see if strerror_l exists
set strerror_l d_strerror_l
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strerror_l.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_readv: Inlibc
?MAKE: -pick add $@ %<
?S:d_readv:
?S: This variable conditionally defines the HAS_READV symbol, which
?S: indicates to the C program that the readv() routine is available.
?S:.
?C:HAS_READV:
?C: This symbol, if defined, indicates that the readv routine is
?C: available to do gather reads.  You will also need <sys/uio.h>
?C: and there I_SYSUIO.
?C:.
?H:#$d_readv HAS_READV  /**/
?H:.
?LINT:set d_readv
: see if readv exists
set readv d_readv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_readv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_psignal.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
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?RCS: You may reuse parts of this distribution only within the terms of
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_psignal.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:49  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_psignal: Inlibc
?MAKE: -pick add $@ %<
?S:d_psignal:
?S: This variable conditionally defines the HAS_PSIGNAL symbol, which
?S: indicates that the psignal() routine exists.  The psignal() routine
?S: prints a description of a signal on the standard error output.
?S:.
?C:HAS_PSIGNAL (PSIGNAL):
?C: This symbol, if defined, indicates
 that the psignal() routine exists.
?C:.
?H:#$d_psignal HAS_PSIGNAL  /**/
?H:.
?LINT:set d_psignal
: see if psignal exists
set psignal d_psignal
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_psignal.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_time.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:07:43  ram
?RCS: patch56: typo fix, sytem -> system
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:16:38  ram
```

```
?RCS: patch36: now uses new Typedef unit to compute type information (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X: Maybe <sys/types.h> should be included?
?X:INC: i_systypes
?MAKE:d_time timetype: Csym Setvar Findhdr Myread Typedef
?MAKE: -pick add $@ %<
?S:d_time:
?S: This
 variable conditionally defines the HAS_TIME symbol, which indicates
?S: that the time() routine exists.  The time() routine is normally
?S: provided on UNIX systems.
?S:.
?S:timetype:
?S: This variable holds the type returned by time(). It can be long,
?S: or time_t on BSD sites (in which case <sys/types.h> should be
?S: included). Anyway, the type Time_t should be used.
?S:.
?C:HAS_TIME (TIMER):
?C: This symbol, if defined, indicates that the time() routine exists.
?C:.
?C:Time_t (TIMETYPE):
?C: This symbol holds the type returned by time(). It can be long,
?C: or time_t on BSD sites (in which case <sys/types.h> should be
?C: included).
?C:.
?H:#$d_time HAS_TIME  /**/
?H:#define Time_t $timetype  /* Time type */
?H:.
?LINT:set d_time
: see if time exists
echo " "
if set time val -f d_time; eval $csym; $val; then
 echo 'time() found.' >&4
 val="$define"
 set time_t timetype long stdio.h sys/types.h
 eval $typedef
 dflt="$timetype"
 echo " "
 rp="What type is returned by time() on this
 system?"
 . ./myread
 timetype="$ans"
else
 echo 'time() not found, hope that will do.' >&4
 val="$undef"
```

```
 timetype='int';
fi
set d_time
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_time.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2012-2012, H.Merijn Brand
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: H.Merijn Brand
?RCS:
?MAKE:d_isblank: cc cat ccflags ldflags rm libs Setvar
?MAKE: -pick add $@ %<
?S:d_isblank:
?S: This variable conditionally defines the HAS_ISBLANK constant,
?S: which indicates to the C program that isblank() is available.
?S:.
?C:HAS_ISBLANK:
?C: This manifest constant lets the C program know that isblank
?C: is available.
?C:.
?H:#$d_isblank HAS_ISBLANK  /**/
?H:.
?LINT:set d_isblank
?X: Can't use Inlibc because isblank() might be a macro.
: Look for isblank
echo " "
$cat >isblank.c <<'EOCP'
#include
 <stdio.h>
#include <ctype.h>
int main() {
 int c = ' ';
 if (isblank(c))
  return 0 ;
 else
  return 1 ;
}
EOCP
```

```
if $cc $ccflags $ldflags -o isblank isblank.c $libs >/dev/null 2>&1 ; then
 echo "isblank() found." >&4
 val="$define"
else
 echo "isblank() NOT found." >&4
 val="$undef"
fi
set d_isblank
eval $setvar
$rm -f isblank*
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_isblank.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: models.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:13:17  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:02:39  ram
?RCS: patch6: added default for large
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:models split small medium large huge: test cat Myread sysman Oldconfig \
 Loc Warn contains rm
?MAKE: -pick add $@ %<
?S:models:
?S: This variable contains the list of memory models supported by
 this
?S: system.  Possible component values are none, split, unsplit, small,
?S: medium, large, and huge.  The component values are space separated.
?S:.
?S:split:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program that will run in separate I and D space, for those
```

```
?S: machines that support separation of instruction and data space.  It is
?S: up to the Makefile to use this.
?S:.
?S:small:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program running with a small memory model.  It is up to
?S: the Makefile to use this.
?S:.
?S:medium:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program running with a medium memory model.  If the
?S: medium model is not supported, contains the flag to produce large
?S: model programs.  It is up to the Makefile to use this.
?S:.
?S:large:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to
 produce a program running with a large memory model.  It is up to
?S: the Makefile to use this.
?S:.
?S:huge:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program running with a huge memory model.  If the
?S: huge model is not supported, contains the flag to produce large
?S: model programs.  It is up to the Makefile to use this.
?S:.
?T:unsplit tans modelcc
?F:!pdp11
?D:large="
?LINT:extern cc
: see what memory models we can support
case "$models" in
")
?X: We may not use Cppsym or we get a circular dependency through cc.
?X: But this should work regardless of which cc we eventually use.
 $cat >pdp11.c <<'EOP'
int main() {
#ifdef pdp11
 exit(0);
#else
 exit(1);
#endif
}
EOP
?X: Run cc in a subshell in case they don't have a 'cc' command.
?X: Presumably they do have gcc or something.
 case "$cc" in
 ") modelcc="$cc" ;;
```

```
 *) modelcc="cc" ;;
 esac
 ( $modelcc -o pdp11 pdp11.c ) >/dev/null 2>&1
 if $test -f pdp11 && ./pdp11 2>/dev/null;
 then
  dflt='unsplit split'
 else
  tans=`./loc . X /lib/small /lib/large /usr/lib/small /usr/lib/large /lib/medium /usr/lib/medium /lib/huge`
  case "$tans" in
  X) dflt='none';;
  *) if $test -d /lib/small || $test -d /usr/lib/small; then
    dflt='small'
   else
    dflt=''
   fi
   if $test -d /lib/medium || $test -d /usr/lib/medium; then
    dflt="$dflt medium"
   fi
   if $test -d /lib/large || $test -d /usr/lib/large; then
    dflt="$dflt large"
   fi
   if $test -d /lib/huge || $test -d /usr/lib/huge; then
    dflt="$dflt huge"
   fi
  esac
 fi;;
*) dflt="$models";;
esac
$cat <<EOM

Some systems have different model sizes.  On most systems they are called
small, medium, large, and huge.  On the PDP11 they are called unsplit and
split.  If your system doesn't support different memory models, say "none".
If you wish to force everything to one memory model, say "none" here and
put the appropriate flags later when it asks you for other cc and ld flags.
Venix systems may wish
 to put "none" and let the compiler figure things out.
(In the following question multiple model names should be space separated.)

The default for most systems is "none".

EOM
rp="Which memory models are supported?"
. ./myread
models="$ans"

case "$models" in
none)
```

```
 small=''
 medium=''
 large=''
 huge=''
 unsplit=''
 split=''
 ;;
*split)
 case "$split" in
 '') if $contains '\-i' $sysman/ld.1 >/dev/null 2>&1 || \
    $contains '\-i' $sysman/cc.1 >/dev/null 2>&1; then
   dflt='-i'
  else
   dflt='none'
  fi;;
 *) dflt="$split";;
 esac
 rp="What flag indicates separate I and D space?"
 . ./myread
 tans="$ans"
 case "$tans" in
 none) tans='';;
 esac
 split="$tans"
 unsplit='';;
*large*|*small*|*medium*|*huge*)
 case "$models" in
 *large*)
  case "$large" in
  '') dflt='-Ml';;
  *) dflt="$large";;
  esac
 rp="What flag indicates large model?"
 . ./myread
 tans="$ans"
 case "$tans" in
 none) tans='';
 esac
 large="$tans";;
 *) large='';;
 esac
 case "$models" in
 *huge*) case "$huge" in
  '')
 dflt='-Mh';;
  *) dflt="$huge";;
  esac
  rp="What flag indicates huge model?"
```

```
 . ./myread
 tans="$ans"
 case "$tans" in
 none) tans=";
 esac
 huge="$tans";;
*) huge="$large";;
esac
case "$models" in
*medium*) case "$medium" in
 ") dflt='-Mm';;
 *) dflt="$medium";;
 esac
 rp="What flag indicates medium model?"
 . ./myread
 tans="$ans"
 case "$tans" in
 none) tans=";
 esac
 medium="$tans";;
*) medium="$large";;
esac
case "$models" in
*small*) case "$small" in
 ") dflt='none';;
 *) dflt="$small";;
 esac
 rp="What flag indicates small model?"
 . ./myread
 tans="$ans"
 case "$tans" in
 none) tans=";
 esac
 small="$tans";;
*) small=";;
esac
;;
*)
 ./warn "Unrecognized memory models--you may have to edit Makefile.SH"
 ;;
esac
$rm -f pdp11.* pdp11
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/models.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pidcheck.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_pidcheck.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:37:55  ram
?RCS: patch61: replaced .o with $_o all over the place
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_pidcheck: cat rm +cc _o
?MAKE: -pick add $@ %<
?S:d_pidcheck:
?S: This variable conditionally defines the variable PIDCHECK
?S: which indicates that kill(pid, 0) will check for an
 active pid.
?S:.
?C:PIDCHECK:
?C: This symbol, if defined, means that the kill(pid, 0) will
?C: check for an active pid (i.e. the kernel will run all the
?C: necessary pid checks, but no signal is actually sent).
?C:.
?H:#$d_pidcheck PIDCHECK  /**/
?H:.
?F:!try
: check for "kill(pid, 0)"
echo " "
case "$d_pidcheck" in
"$define")
echo "I already know your system supports kill(pid, 0) for pid checks." >&4
 ;;
"$undef")
echo "We both know your system does not support signal #0 for pid checks." >&4
 ;;
*)
 echo "Checking to see if kill(pid, 0) works..." >&4
 $cat >try.c <<'EOCP'
int main()
 {
 int pid, status0, status9;
```

```
 if ((pid = fork()) == 0)
  {
  sleep(30);
  exit(1);
  }
 status0 = kill(pid, 0);
 status9 = kill(pid, 9);
 exit(status0 == status9);
 }
EOCP
 if $cc -o try try.c >/dev/null 2>&1 ; then
  if ./try >/dev/null 2>&1 ; then
   echo "Yes, it does marvels."
   d_pidcheck="$undef"
  else
   d_pidcheck="$define"
   echo "No, it doesn't."
  fi
 else
  echo "(I was unable to compile
 the test program.)"
  echo "Your system does not appear to support kill(pid, 0)."
  d_pidcheck="$undef"
 fi
 $rm -f try.c try$_o try
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_pidcheck.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: selecttype.U,v 3.0.1.3 1997/02/28 16:20:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: selecttype.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:20:09  ram
```

```
?RCS: patch61: always include <sys/select.h> when available for test
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  14:14:06  ram
?RCS: patch56: removed harmful spaces in assignment
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:06:31  ram
?RCS: patch30: created by ADO
?RCS:
?MAKE:selecttype: Protochk Oldconfig Myread cat
 \
 d_fd_set d_select d_socket i_systime i_sysselct extern_C
?MAKE: -pick add $@ %<
?S:selecttype:
?S: This variable holds the type used for the 2nd, 3rd, and 4th
?S: arguments to select.  Usually, this is 'fd_set *', if HAS_FD_SET
?S: is defined, and 'int *' otherwise.  This is only useful if you
?S: have select(), naturally.
?S:.
?C:Select_fd_set_t:
?C: This symbol holds the type used for the 2nd, 3rd, and 4th
?C: arguments to select.  Usually, this is 'fd_set *', if HAS_FD_SET
?C: is defined, and 'int *' otherwise.  This is only useful if you
?C: have select(), of course.
?C:.
?H:#define Select_fd_set_t $selecttype /**/
?H:.
?T:xxx nfd tmo try hdrs val
: check for type of arguments to select.
case "$selecttype" in
") case "$d_select" in
 $define)
  echo " "
  $cat <<EOM
Checking to see what type of arguments are accepted by select().
EOM
  hdrs="$define sys/types.h
   $i_systime sys/time.h
   $i_sysselct sys/select.h
   $d_socket sys/socket.h"
  : The first arg can be int, unsigned,
 or size_t
  : The last arg may or may not be 'const'
  val="
  : void pointer has been seen but using that
  : breaks the selectminbits test
  for xxx in 'fd_set *' 'int *'; do
   for nfd in 'int' 'size_t' 'unsigned long' 'unsigned' ; do
    for tmo in 'struct timeval *' 'const struct timeval *'; do
```

```
    case "$val" in
    ") try="$extern_C select _(($nfd, $xxx, $xxx, $xxx, $tmo));"
     if ./protochk "$try" $hdrs; then
      echo "Your system accepts $xxx."
      val="$xxx"
     fi
     ;;
    esac
   done
  done
 done
?X: In the unlikely event that none of those worked, prompt the user.
 case "$val" in
 ") rp='What is the type for the 2nd, 3rd, and 4th arguments to select?'
  case "$d_fd_set" in
   $define) dflt="fd_set *" ;;
   *)  dflt="int *" ;;
  esac
  . ./myread
  val=$ans
  ;;
 esac
 selecttype="$val"
 ;;
*) : no select, so pick a harmless default
 selecttype='int *'
 ;;
esac
;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/selecttype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_nearbyint: Inlibc
?MAKE: -pick add $@ %<
?S:d_nearbyint:
?S: This variable conditionally defines HAS_NEARBYINT if nearbyint()
?S: is available to return the integral value closest to (according to
?S: the current rounding mode) to x.
?S:.
?C:HAS_NEARBYINT:
?C: This symbol, if defined, indicates that the nearbyint routine is
```

```
?C: available to return the integral value closest to (according to
?C: the current rounding mode) to x.
?C:.
?H:#$d_nearbyint HAS_NEARBYINT  /**/
?H:.
?LINT:set d_nearbyint
: see if nearbyint exists
set nearbyint d_nearbyint
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_nearbyint.U
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: End.U,v $
?RCS: Revision 3.0  1993/08/18  12:04:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit serves as the goal which forces make to choose all the units that
?X: ask questions.  The $W on the ?MAKE: line is the list of all symbols wanted.
?X: To force any unit to be included, copy this unit to your private U directory
?X: and add the name of the unit desired to the ?MAKE: dependency line.
?X:
?MAKE:End: $W
?MAKE: -pick add $@ %<
?LINT:use $W
: end of configuration
 questions
echo " "
echo "End of configuration questions."
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/End.U
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```
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_madvise: Inlibc
?MAKE: -pick add $@ %<
?S:d_madvise:
?S: This variable conditionally defines HAS_MADVISE if madvise() is
?S: available to map a file into memory.
?S:.
?C:HAS_MADVISE:
?C: This symbol, if defined, indicates that the madvise system call is
?C: available to map a file into memory.
?C:.
?H:#$d_madvise HAS_MADVISE  /**/
?H:.
?LINT:set d_madvise
: see if madvise exists
set madvise d_madvise
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_madvise.U
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```
?RCS: $Id: d_endservent_r.U,v 0RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_endservent_r endservent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_endservent_r:
?S: This variable conditionally defines the HAS_ENDSERVENT_R symbol,
?S: which indicates to the C program that the endservent_r()
?S: routine is available.
?S:.
```

```
?S:endservent_r_proto:
?S: This variable encodes the prototype of endservent_r.
?S: It is zero if d_endservent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endservent_r
?S: is defined.
?S:.
?C:HAS_ENDSERVENT_R:
?C: This symbol, if defined, indicates that the endservent_r routine
?C: is
 available to endservent re-entrantly.
?C:.
?C:ENDSERVENT_R_PROTO:
?C: This symbol encodes the prototype of endservent_r.
?C: It is zero if d_endservent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endservent_r
?C: is defined.
?C:.
?H:#$d_endservent_r HAS_ENDSERVENT_R /**/
?H:#define ENDSERVENT_R_PROTO $endservent_r_proto /**/
?H:.
?T:try hdrs d_endservent_r_proto
: see if endservent_r exists
set endservent_r d_endservent_r
eval $inlibc
case "$d_endservent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_endservent_r_proto:$usethreads" in
 ":define") d_endservent_r_proto=define
  set d_endservent_r_proto endservent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_endservent_r_proto" in
 define)
 case "$endservent_r_proto" in
 "|0) try='int endservent_r(struct servent_data*);'
 ./protochk "$extern_C $try" $hdrs && endservent_r_proto=I_D ;;
 esac
 case "$endservent_r_proto" in
 "|0) try='void endservent_r(struct
 servent_data*);'
 ./protochk "$extern_C $try" $hdrs && endservent_r_proto=V_D ;;
 esac
 case "$endservent_r_proto" in
 "|0) d_endservent_r=undef
  endservent_r_proto=0
  echo "Disabling endservent_r, cannot determine prototype." >&4 ;;
```

```
 * ) case "$endservent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) endservent_r_proto="REENTRANT_PROTO_$endservent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "endservent_r has no prototype, not using it." >&4 ;;
  esac
  d_endservent_r=undef
  endservent_r_proto=0
  ;;
 esac
 ;;
*) endservent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_endservent_r.U
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```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_unsetenv: Inlibc
?MAKE: -pick add $@ %<
?S:d_unsetenv:
?S: This variable conditionally defines the HAS_UNSETENV symbol, which
?S: indicates to the C program that the unsetenv () routine is available.
?S:.
?C:HAS_UNSETENV:
?C: This symbol, if defined, indicates that the unsetenv () routine is
?C: available for use.
?C:.
?H:#$d_unsetenv HAS_UNSETENV  /**/
?H:.
?LINT:set d_unsetenv
: see if unsetenv exists
set unsetenv d_unsetenv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_unsetenv.U
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```
?RCS: $Id: d_mblen.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_mblen.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:09:40  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_mblen: Inlibc
?MAKE: -pick add $@ %<
?S:d_mblen:
?S: This variable conditionally defines the HAS_MBLEN symbol, which
?S: indicates to the C program that the mblen() routine is available
?S: to find the number of bytes in a multibyte character.
?S:.
?C:HAS_MBLEN:
?C: This
 symbol, if defined, indicates that the mblen routine is available
?C: to find the number of bytes in a multibyte character.
?C:.
?H:#$d_mblen HAS_MBLEN  /**/
?H:.
?LINT:set d_mblen
: see if mblen exists
set mblen d_mblen
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_mblen.U
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```
?RCS: $Id: i_neterrno.U,v 3.0.1.3 1994/10/29 16:20:29 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
```

```
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?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_neterrno.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:20:29  ram
?RCS: patch36: forgot to initialize 'val' to an empty value (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:22:10  ram
?RCS: patch32: removed spurious echo
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:02:05  ram
?RCS: patch30: created by ADO
?RCS:
?MAKE:i_neterrno: Inhdr +cc +ccflags rm_try Setvar
?MAKE: -pick
 add $@ %<
?S:i_neterrno:
?S: This variable conditionally defines the I_NET_ERRNO symbol, which
?S: indicates to the C program that <net/errno.h> exists and should
?S: be included.
?S:.
?C:I_NET_ERRNO:
?C: This symbol, if defined, indicates that <net/errno.h> exists and
?C: should be included.
?C:.
?H:#$i_neterrno I_NET_ERRNO  /**/
?H:.
?LINT:set i_neterrno
: see if net/errno.h is available
val=''
set net/errno.h val
eval $inhdr

: Unfortunately, it causes problems on some systems.  Arrgh.
case "$val" in
$define)
 cat > try.c <<'EOM'
#include <stdio.h>
#include <errno.h>
#include <net/errno.h>
int func()
{
```

```
 return ENOTSOCK;
}
EOM
 if $cc $ccflags -c try.c >/dev/null 2>&1; then
  echo "We'll be including <net/errno.h>." >&4
 else
  echo "We won't be including <net/errno.h>." >&4
  val="$undef"
 fi
 $rm_try
 ;;
esac
set i_neterrno
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_neterrno.U
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```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_aintl: Inlibc
?MAKE: -pick add $@ %<
?S:d_aintl:
?S: This variable conditionally defines the HAS_AINTL symbol, which
?S: indicates to the C program that the aintl() routine is available.
?S: If copysignl is also present we can emulate modfl.
?S:.
?C:HAS_AINTL:
?C: This symbol, if defined, indicates that the aintl routine is
?C: available.  If copysignl is also present we can emulate modfl.
?C:.
?H:#$d_aintl HAS_AINTL  /**/
?H:.
?LINT:set d_aintl
: see if aintl exists
set aintl d_aintl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_aintl.U

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```
?RCS: $Id: d_memset.U 1 2006-08-24 12:32:52Z rmanfredi $
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memset.U,v $
?RCS: Revision 3.0.1.1  1993/09/13  16:03:11  ram
?RCS: patch10: removed text recommending bzero over memset (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:36  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_memset: Inlibc
?MAKE: -pick add $@ %<
?S:d_memset:
?S: This variable conditionally defines the HAS_MEMSET symbol, which
?S: indicates to the C program that the memset() routine is available
?S: to set blocks of memory.
?S:.
?C:HAS_MEMSET
 (MEMSET):
?C: This symbol, if defined, indicates that the memset routine is available
?C: to set blocks of memory.
?C:.
?H:#$d_memset HAS_MEMSET /**/
?H:.
?LINT:set d_memset
: see if memset exists
set memset d_memset
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_memset.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_closedir.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:31:26  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:11:18  ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:21  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_closedir d_void_closedir: Inlibc i_dirent i_sysdir i_sysndir \
 cc ccflags ldflags libs Setvar rm
?MAKE: -pick
 add $@ %<
?S:d_closedir:
?S: This variable conditionally defines HAS_CLOSEDIR if closedir() is
?S: available.
?S:.
?C:HAS_CLOSEDIR:
?C: This symbol, if defined, indicates that the closedir() routine is
?C: available.
?C:.
?H:#$d_closedir HAS_CLOSEDIR  /**/
?H:.
?S:d_void_closedir:
?S: This variable conditionally defines VOID_CLOSEDIR if closedir()
?S: does not return a value.
?S:.
?C:VOID_CLOSEDIR:
?C: This symbol, if defined, indicates that the closedir() routine
?C: does not return a value.
?C:.
?H:#$d_void_closedir VOID_CLOSEDIR  /**/
?H:.
?F:!closedir
?LINT:set d_closedir d_void_closedir
: see if closedir exists
set closedir d_closedir
eval $inlibc

@if VOID_CLOSEDIR || d_void_closedir
```

```
?X: The following contortions are designed so we can call closedir()
?X: and check whether it returns a value.  The contortions are designed
?X: to portably pick up the correct directory header, for those
?X: systems that support various mutually incompatible directory functions.
?X: This
 is from perl5's perl.h
case "$d_closedir" in
"$define")
 echo " "
 echo "Checking whether closedir() returns a status..." >&4
 cat > closedir.c <<EOM
#$i_dirent I_DIRENT  /**/
#$i_sysdir I_SYS_DIR  /**/
#$i_sysndir I_SYS_NDIR  /**/

#if defined(I_DIRENT)
#include <dirent.h>
#if defined(NeXT) && defined(I_SYS_DIR) /* NeXT needs dirent + sys/dir.h */
#include <sys/dir.h>
#endif
#else
#ifdef I_SYS_NDIR
#include <sys/ndir.h>
#else
#ifdef I_SYS_DIR
#ifdef hp9000s500
#include <ndir.h> /* may be wrong in the future */
#else
#include <sys/dir.h>
#endif
#endif
#endif
#endif
int main() { return closedir(opendir(".")); }
EOM
 if $cc $ccflags $ldflags -o closedir closedir.c $libs > /dev/null 2>&1; then
  if ./closedir > /dev/null 2>&1 ; then
   echo "Yes, it does."
   val="$undef"
  else
   echo "No, it doesn't."
   val="$define"
  fi
 else
  echo "(I can't seem to compile the test program--assuming it doesn't)"
  val="$define"
 fi
 ;;
```

```
*)
 val="$undef";
 ;;
esac
set d_void_closedir
eval $setvar
$rm
 -f closedir*
@end
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_closedir.U
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```
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_wcsxfrm: Compile cat rm_try run Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_wcsxfrm:
?S: This variable conditionally defines the HAS_WCSXFRM symbol if the
?S: wcsxfrm() routine is available and can be used to compare wide
?S: character strings.
?S:.
?C:HAS_WCSXFRM:
?C: This symbol, if defined, indicates that the wcsxfrm routine is
?C: available to tranform a wide character string for wcscmp().
?C:.
?H:#$d_wcsxfrm HAS_WCSXFRM /**/
?H:.
?F:!try
?LINT: set d_wcsxfrm
: look for wcsxfrm
echo " "
$cat >try.c <<'EOCP'
#include
 <errno.h>
#include <wchar.h>
int main ()
{
   wchar_t dst[4], *src = L" ";
   errno = 0;
```

```
   return (wcsxfrm (dst, src, 1) ? errno ? errno : 0 : 1);
   }
EOCP
set try
?X: if $cc $ccflags $ldflags -o try try.c $libs >/dev/null 2>&1 ; then
val="$undef"
if eval $compile; then
   `$run ./try`
   case "$?" in
 0)  echo "A working wcsxfrm() found." >&4
     val="$define" ;;
 *)  echo "wcsxfrm() found, but it doesn't work" >&4
     ;;
 esac
else
   echo "wcsxfrm() NOT found." >&4
   fi
set d_wcsxfrm
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_wcsxfrm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: yacc.U,v $
?RCS: Revision 3.0.1.1  1994/05/13  15:28:48  ram
?RCS: patch27: added byacc as another alternative (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:10:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:yacc yaccflags: Guess Myread Loc Oldconfig byacc bison cat test
?MAKE: -pick add $@ %<
?S:yacc:
?S: This variable holds the name of the compiler compiler we
?S: want to use in the Makefile. It can be yacc, byacc, or bison -y.
```

```
?S:.
?S:yaccflags:
?S: This variable contains any
 additional yacc flags desired by the
?S: user.  It is up to the Makefile to use this.
?S:.
?T:comp
: determine compiler compiler
echo " "
comp='yacc'
if $test -f "$byacc$_exe"; then
 comp="byacc or $comp"
fi
if $test -f "$bison$_exe"; then
 comp="$comp or bison -y"
fi
case "$yacc" in
")
 yacc=`./loc yacc yacc $pth`
 if $test -f "$yacc$_exe"; then
  dflt='yacc'
 elif $test -f "$byacc$_exe"; then
  dflt='byacc'
 elif $test -f "$bison$_exe"; then
  dflt='bison'
 else
  dflt=''
 fi
 ;;
*) dflt="$yacc";;
esac
rp="Which compiler compiler ($comp) shall I use?"
. ./myread
yacc="$ans"
case "$yacc" in
*bis*)
 case "$yacc" in
 *-y*) ;;
 *)
  yacc="$yacc -y"
  echo "(Adding -y option to bison to get yacc-compatible behaviour.)"
  ;;
 esac
 ;;
esac

@if yaccflags
: see if we need extra yacc flags
```

```
dflt="$yaccflags"
case "$dflt" in
") dflt=none;;
esac
$cat <<EOH

Your yacc program may need extra flags to normally process the parser sources.
Do NOT specify any -d or -v flags here, since those are
 explicitly known
by the various Makefiles. However, if your machine has strange/undocumented
options (like -Sr# on SCO to specify the maximum number of grammar rules), then
please add them here.  To use no flags, specify the word "none".

EOH
rp="Any additional yacc flags?"
. ./myread
case "$ans" in
none) yaccflags=";;
*) yaccflags="$ans";;
esac

@end
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/yacc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_chown.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_chown.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:14  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_chown: Inlibc
?MAKE: -pick add $@ %<
?S:d_chown:
?S: This variable conditionally defines the HAS_CHOWN symbol, which
```

```
?S: indicates to the C program that the chown() routine is available.
?S:.
?C:HAS_CHOWN :
?C: This symbol, if defined, indicates that the chown routine is
?C: available.
?C:.
?H:#$d_chown
 HAS_CHOWN  /**/
?H:.
?LINT:set d_chown
: see if chown exists
set chown d_chown
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_chown.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_mmap.U,v $
?RCS: Revision 3.0.1.1  1993/12/15  08:19:12  ram
?RCS: patch15: created
?RCS:
?MAKE:d_mmap: Inlibc
?MAKE: -pick add $@ %<
?S:d_mmap:
?S: This variable conditionally defines HAS_MMAP if mmap() is
?S: available to map a file into memory.
?S:.
?C:HAS_MMAP:
?C: This symbol, if defined, indicates that the mmap system call is
?C: available to map a file into memory.
?C:.
?H:#$d_mmap HAS_MMAP  /**/
?H:.
?LINT:set d_mmap
: see if mmap exists
set mmap d_mmap
```

```
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_mmap.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_ustat: Inlibc
?MAKE: -pick add $@ %<
?S:d_ustat:
?S: This variable conditionally defines HAS_USTAT if ustat() is
?S: available to query file system statistics by dev_t.
?S:.
?C:HAS_USTAT:
?C: This symbol, if defined, indicates that the ustat system call is
?C: available to query file system statistics by dev_t.
?C:.
?H:#$d_ustat HAS_USTAT  /**/
?H:.
?LINT:set d_ustat
: see if ustat exists
set ustat d_ustat
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_ustat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_copysignl: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_copysignl:
?S: This variable conditionally defines the HAS_COPYSIGNL symbol, which
?S: indicates to the C program that the copysignl() routine is available.
?S: If aintl is also present we can emulate modfl.
?S:.
?C:HAS_COPYSIGNL:
?C: This symbol, if defined, indicates that the copysignl routine is
?C: available.  If aintl is also present we can emulate modfl.
?C:.
?H:#$d_copysignl HAS_COPYSIGNL  /**/
?H:.
?LINT:set d_copysignl
: see if copysignl exists
set copysignl d_copysignl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_copysignl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_dbl_dig.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_dbl_dig.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:28  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_dbl_dig: Myread contains cat rm Setvar \
 cppstdin cppflags cppminus
?MAKE: -pick add $@ %<
?S:d_dbl_dig:
?S: This variable conditionally defines d_dbl_dig if this system's
?S: header files provide DBL_DIG, which is the number of significant
?S: digits in a double precision
 number.
?S:.
?C:HAS_DBL_DIG:
```

```
?C: This symbol, if defined, indicates that this system's <float.h>
?C: or <limits.h> defines the symbol DBL_DIG, which is the number
?C: of significant digits in a double precision number.  If this
?C: symbol is not defined, a guess of 15 is usually pretty good.
?C:.
?H:#$d_dbl_dig HAS_DBL_DIG /**/
?H:.
?F:!dbl_dig.c
?LINT:set d_dbl_dig
: See if number of significant digits in a double precision number is known
echo " "
$cat >dbl_dig.c <<EOM
#include <limits.h>
#include <float.h>
#ifdef DBL_DIG
printf("Contains DBL_DIG");
#endif
EOM
$cppstdin $cppflags $cppminus < dbl_dig.c >dbl_dig.E 2>/dev/null
if $contains 'DBL_DIG' dbl_dig.E >/dev/null 2>&1; then
 echo "DBL_DIG found." >&4
 val="$define"
else
 echo "DBL_DIG NOT found." >&4
 val="$undef"
fi
$rm -f dbl_dig.?
set d_dbl_dig
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_dbl_dig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_srandom_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_srandom_r srandom_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_stdlib extern_C
?MAKE: -pick add $@ %<
?S:d_srandom_r:
?S: This variable conditionally defines the HAS_SRANDOM_R symbol,
```

```
?S: which indicates to the C program that the srandom_r()
?S: routine is available.
?S:.
?S:srandom_r_proto:
?S: This variable encodes the prototype of srandom_r.
?S: It is zero if d_srandom_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_srandom_r
?S: is defined.
?S:.
?C:HAS_SRANDOM_R:
?C: This symbol, if defined, indicates that the srandom_r routine
?C: is available to srandom re-entrantly.
?C:.
?C:SRANDOM_R_PROTO:
?C: This
 symbol encodes the prototype of srandom_r.
?C: It is zero if d_srandom_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_srandom_r
?C: is defined.
?C:.
?H:#$d_srandom_r HAS_SRANDOM_R /**/
?H:#define SRANDOM_R_PROTO $srandom_r_proto /**/
?H:.
?T:try hdrs d_srandom_r_proto
: see if srandom_r exists
set srandom_r d_srandom_r
eval $inlibc
case "$d_srandom_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_stdlib stdlib.h"
 case "$d_srandom_r_proto:$usethreads" in
 ":define") d_srandom_r_proto=define
  set d_srandom_r_proto srandom_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_srandom_r_proto" in
 define)
 case "$srandom_r_proto" in
 "|0) try='int srandom_r(unsigned int, struct random_data*);'
 ./protochk "$extern_C $try" $hdrs && srandom_r_proto=I_TS ;;
 esac
 case "$srandom_r_proto" in
 "|0) d_srandom_r=undef
  srandom_r_proto=0
  echo "Disabling srandom_r, cannot determine prototype." >&4 ;;
 *
```

```
 ) case "$srandom_r_proto" in
  REENTRANT_PROTO*) ;;
  *) srandom_r_proto="REENTRANT_PROTO_$srandom_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "srandom_r has no prototype, not using it." >&4 ;;
  esac
  d_srandom_r=undef
  srandom_r_proto=0
  ;;
 esac
 ;;
*) srandom_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_srandom_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: lintlib.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: lintlib.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lintlib lintlibexp: Getfile Loc Oldconfig
?MAKE: -pick add $@ %<
?S:lintlib:
?S: This variable holds the name of the directory in which the user wants
?S: to put public lint-library files for the package in question.  It is
?S: most often a local directory such as /usr/local/lib/lint. Programs using
?S: this variable must be prepared to
 deal with ~name expansion.
?S:.
?S:lintlibexp:
```

```
?S: This variable is the same as the lintlib variable, but is filename
?S: expanded at configuration time, for convenient use in your makefiles.
?S:.
: determine where public lint libraries go
case "$lintlib" in
") dflt=`./loc . "." /usr/local/lib/lint /usr/lib/lint /usr/lib`;;
*) dflt="$lintlib" ;;
esac
echo " "
fn=d~
rp='Where do you want to put the public lint libraries?'
. ./getfile
lintlib="$ans"
lintlibexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/lintlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_const.U,v $
?RCS: Revision 3.0.1.1  1993/11/10  17:33:41  ram
?RCS: patch14: stronger const check with added typedef for MIPS cc
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_const: cat rm cc ccflags Setvar
?MAKE: -pick add $@ %<
?S:d_const:
?S: This variable conditionally defines the HASCONST symbol, which
?S: indicates to the C program that this C compiler knows about the
?S: const type.
?S:.
?C:HASCONST ~ %<:
?C: This symbol,
 if defined, indicates that this C compiler knows about
?C: the const type. There is no need to actually test for that symbol
```

```
?C: within your programs. The mere use of the "const" keyword will
?C: trigger the necessary tests.
?C:.
?H:?%<:#$d_const HASCONST /**/
?H:?%<:#ifndef HASCONST
?H:?%<:#define const
?H:?%<:#endif
?H:.
?W:%<:const
?F:const.c const.o
?LINT:set d_const
?LINT:known const
: check for const keyword
echo " "
echo 'Checking to see if your C compiler knows about "const"...' >&4
$cat >const.c <<'EOCP'
?X: mmcg@bruce.cs.monash.edu.au reports that:
?X: The MIPS cc compiler (V2.10) on a dec 5000 running Ultrix 4.2A
?X: pretends to understand `const' but doesn't - it'll also fail to
?X: handle typedefs properly if they're declared const. To guard
?X: against this, boost up the test by using an explicit typedef...
typedef struct spug { int drokk; } spug;
int main()
{
 const char *foo;
 const spug y;
}
EOCP
if $cc -c $ccflags const.c >/dev/null 2>&1 ; then
 val="$define"
 echo "Yup,
 it does."
else
 val="$undef"
 echo "Nope, it doesn't."
fi
set d_const
eval $setvar
$rm -f const.c const.o
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_const.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_fd_set.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:33:16  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20  06:57:23  ram
?RCS: patch30: extended scope for fd_set checks (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:06:27  ram
?RCS: patch16: comments for HAS_FD_* symbols were not consistent
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_fd_set d_fd_macros d_fds_bits: cat +cc +ccflags rm Oldconfig
 \
 d_socket i_systime i_sysselct i_syssock
?MAKE: -pick add $@ %<
?S:d_fd_set:
?S: This variable contains the eventual value of the HAS_FD_SET symbol,
?S: which indicates if your C compiler knows about the fd_set typedef.
?S:.
?S:d_fd_macros:
?S: This variable contains the eventual value of the HAS_FD_MACROS symbol,
?S: which indicates if your C compiler knows about the macros which
?S: manipulate an fd_set.
?S:.
?S:d_fds_bits:
?S: This variable contains the eventual value of the HAS_FDS_BITS symbol,
?S: which indicates if your fd_set typedef contains the fds_bits member.
?S: If you have an fd_set typedef, but the dweebs who installed it did
?S: a half-fast job and neglected to provide the macros to manipulate
?S: an fd_set, HAS_FDS_BITS will let us know how to fix the gaffe.
?S:.
?C:HAS_FD_SET:
?C: This symbol, when defined, indicates presence of the fd_set typedef
?C: in <sys/types.h>
?C:.
?C:HAS_FD_MACROS:
?C: This symbol, when defined,  indicates presence of the macros used
 to
?C: manipulate an fd_set.
```

```
?C:.
?C:HAS_FDS_BITS:
?C: This symbol, when defined, indicates presence of the fds_bits member in
?C: fd_set.  This knowledge is useful if fd_set is available but the macros
?C: aren't.
?C:.
?H:#$d_fd_set HAS_FD_SET /**/
?H:#$d_fd_macros HAS_FD_MACROS /**/
?H:#$d_fds_bits HAS_FDS_BITS /**/
?H:.
?F:!fd_set
: check for fd_set items
$cat <<EOM

Checking to see how well your C compiler handles fd_set and friends ...
EOM
?X: The FD_SET macros can be in strange places.  On some SysV-based
?X: systems, they are in <sys/bsdtypes.h>, which is included (perhaps)
?X: by <sys/socket.h>.  We won't force people to include
?X: <sys/bsdtypes.h> because it might introduce other
?X: incompatibilities.
$cat >fd_set.c <<EOCP
#$i_systime I_SYS_TIME
#$i_sysselct I_SYS_SELECT
#$d_socket HAS_SOCKET
#$i_syssock I_SYS_SOCKET
#include <sys/types.h>
#ifdef HAS_SOCKET
#ifdef I_SYS_SOCKET
#include <sys/socket.h> /* Might include <sys/bsdtypes.h> */
#endif
#endif
#ifdef I_SYS_TIME
#include
 <sys/time.h>
#endif
#ifdef I_SYS_SELECT
#include <sys/select.h>
#endif
int main() {
 fd_set fds;

#ifdef TRYBITS
 if(fds.fds_bits);
#endif

#if defined(FD_SET) && defined(FD_CLR) && defined(FD_ISSET) && defined(FD_ZERO)
 exit(0);
```

```
#else
 exit(1);
#endif
}
EOCP
if $cc $ccflags -DTRYBITS -o fd_set fd_set.c >fd_set.out 2>&1 ; then
 d_fds_bits="$define"
 d_fd_set="$define"
 echo "Well, your system knows about the normal fd_set typedef..." >&4
 if ./fd_set; then
  echo "and you have the normal fd_set macros (just as I'd expect)." >&4
  d_fd_macros="$define"
 else
  $cat >&4 <<'EOM'
but not the normal fd_set macros!  Gaaack!  I'll have to cover for you.
EOM
  d_fd_macros="$undef"
 fi
else
 $cat <<'EOM'
Hmm, your compiler has some difficulty with fd_set.  Checking further...
EOM
 if $cc $ccflags -o fd_set fd_set.c >fd_set.out 2>&1 ; then
  d_fds_bits="$undef"
  d_fd_set="$define"
  echo "Well, your system has some sort of fd_set available..." >&4
  if ./fd_set; then
   echo "and you have the
 normal fd_set macros." >&4
   d_fd_macros="$define"
  else
   $cat <<'EOM'
but not the normal fd_set macros!  Gross!  More work for me...
EOM
   d_fd_macros="$undef"
  fi
 else
 echo "Well, you got zip.  That's OK, I can roll my own fd_set stuff." >&4
  d_fd_set="$undef"
  d_fds_bits="$undef"
  d_fd_macros="$undef"
 fi
fi
$rm -f fd_set*
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_fd_set.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2004 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strlcat: Inlibc Hasproto d_gnulibc
?MAKE: -pick add $@ %<
?S:d_strlcat:
?S: This variable conditionally defines the HAS_STRLCAT symbol, which
?S: indicates to the C program that the strlcat () routine is available.
?S:.
?C:HAS_STRLCAT:
?C: This symbol, if defined, indicates that the strlcat () routine is
?C: available to do string concatenation.
?C:.
?H:#$d_strlcat HAS_STRLCAT  /**/
?H:.
?T:d_strlcat_proto xx1 xx2 xx3 xx4
?LINT:set d_strlcat
: see if strlcat exists
: We need both a prototype in string.h and the symbol in libc.
echo " "
d_strlcat_proto="
xx1="#$d_gnulibc HAS_GNULIBC"
xx2='#if defined(HAS_GNULIBC) && !defined(_GNU_SOURCE)'
xx3='#   define _GNU_SOURCE'
xx4='#endif'
set d_strlcat_proto
 strlcat literal "$xx1" literal "$xx2" literal "$xx3" literal "$xx4" define string.h
eval $hasproto
case "$d_strlcat_proto" in
   define) # see if strlcat exists
 set strlcat d_strlcat
 eval $inlibc
 ;;
   *)  val=$undef
 set d_strlcat
 eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strlcat.U

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```
?RCS: $Id: i_systable.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_systable.U,v $
?RCS: Revision 3.0.1.1  1993/10/16  13:50:20  ram
?RCS: patch12: created
?RCS:
?RCS:
?MAKE:i_systable: Inhdr
?MAKE: -pick add $@ %<
?S:i_systable:
?S: This variable conditionally defines the I_SYS_TABLE symbol, and
?S: indicates whether a C program should include <sys/table.h>.
?S:.
?C:I_SYS_TABLE:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/table.h> for the OSF/1 table() system call.
?C:.
?H:#$i_systable
 I_SYS_TABLE  /**/
?H:.
?LINT:set i_systable
: see if this is an OSF sys/table system
set sys/table.h i_systable
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_systable.U
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```
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?RCS:
?MAKE:d_qgcvt: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_qgcvt:
?S: This variable conditionally defines the HAS_QGCVT symbol, which
?S: indicates to the C program that the qgcvt() routine is available.
?S:.
?C:HAS_QGCVT:
?C: This symbol, if defined, indicates that the qgcvt routine is
?C: available to convert long doubles ("quad doubles") to strings.
?C: This is a low-level routine hopefully faster than sprintf.
?C:.
?H:#$d_qgcvt HAS_QGCVT  /**/
?H:.
?LINT:set d_qgcvt
: see if qgcvt exists
set qgcvt d_qgcvt
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_qgcvt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_sigsetjmp.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:44:33  ram
?RCS: patch61: created
?RCS:
?MAKE:d_sigsetjmp: Setvar cat +cc +ccflags +ldflags libs rm
?MAKE: -pick add $@ %<
?S:d_sigsetjmp:
?S: This variable conditionally defines the HAS_SIGSETJMP symbol,
?S: which indicates that the sigsetjmp() routine
 is available to
?S: call setjmp() and optionally save the process's signal mask.
?S:.
```

```
?C:HAS_SIGSETJMP:
?C: This variable indicates to the C program that the sigsetjmp()
?C: routine is available to save the calling process's registers
?C: and stack environment for later use by siglongjmp(), and
?C: to optionally save the process's signal mask.  See
?C: Sigjmp_buf, Sigsetjmp, and Siglongjmp.
?C:.
?C:Sigjmp_buf:
?C: This is the buffer type to be used with Sigsetjmp and Siglongjmp.
?C:.
?C:Sigsetjmp:
?C: This macro is used in the same way as sigsetjmp(), but will invoke
?C: traditional setjmp() if sigsetjmp isn't available.
?C: See HAS_SIGSETJMP.
?C:.
?C:Siglongjmp:
?C: This macro is used in the same way as siglongjmp(), but will invoke
?C: traditional longjmp() if siglongjmp isn't available.
?C: See HAS_SIGSETJMP.
?C:.
?H:?%<:#$d_sigsetjmp HAS_SIGSETJMP /**/
?H:?%<:#ifdef HAS_SIGSETJMP
?H:?%<:#define Sigjmp_buf sigjmp_buf
?H:?%<:#define Sigsetjmp(buf,save_mask) sigsetjmp((buf),(save_mask))
?H:?%<:#define
 Siglongjmp(buf,retval) siglongjmp((buf),(retval))
?H:?%<:#else
?H:?%<:#define Sigjmp_buf jmp_buf
?H:?%<:#define Sigsetjmp(buf,save_mask) setjmp((buf))
?H:?%<:#define Siglongjmp(buf,retval) longjmp((buf),(retval))
?H:?%<:#endif
?H:.
?W:%<:Sigjmp_buf Sigsetjmp Siglongjmp
?F:!set
?LINT:set d_sigsetjmp
: see if sigsetjmp exists
?X: We can't check for these symbols with Inlibc because sigsetjmp
?X: is (sometimes? always?) a macro under GCC
echo " "
case "$d_sigsetjmp" in
")
 $cat >set.c <<'EOP'
#include <setjmp.h>
sigjmp_buf env;
int set = 1;
int main()
{
 if (sigsetjmp(env,1))
```

```
  exit(set);
 set = 0;
 siglongjmp(env, 1);
 exit(1);
}
EOP
 if $cc $ccflags $ldflags -o set set.c $libs > /dev/null 2>&1 ; then
  if ./set >/dev/null 2>&1; then
   echo "POSIX sigsetjmp found." >&4
   val="$define"
  else
   $cat >&4 <<EOM
Uh-Oh! You have POSIX sigsetjmp and siglongjmp, but they do not work properly!!
I'll ignore them.
EOM
   val="$undef"
  fi
 else
  echo "sigsetjmp not found."
 >&4
  val="$undef"
 fi
 ;;
*) val="$d_sigsetjmp"
 case "$d_sigsetjmp" in
 $define) echo "POSIX sigsetjmp found." >&4;;
 $undef) echo "sigsetjmp not found." >&4;;
 esac
 ;;
esac
set d_sigsetjmp
eval $setvar
$rm -f set.c set
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sigsetjmp.U
No license file was found, but licenses were detected in source scan.

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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:st_ino_size st_ino_sign: cat echo i_stdlib Setvar Compile run rm_try

```
?MAKE: -pick add $@ %<
?S:st_ino_sign:
?S: This variable contains the signedness of struct stat's st_ino.
?S: 1 for unsigned, -1 for signed.
?S:.
?S:st_ino_size:
?S: This variable contains the size of struct stat's st_ino in bytes.
?S:.
?C:ST_INO_SIZE:
?C: This variable contains the size of struct stat's st_ino in bytes.
?C:.
?C:ST_INO_SIGN:
?C: This symbol holds the signedness of struct stat's st_ino.
?C: 1 for unsigned, -1 for signed.
?C:.
?H:#define ST_INO_SIGN
 $st_ino_sign /* st_ino sign */
?H:#define ST_INO_SIZE $st_ino_size /* st_ino size */
?H:.
?F:!try
: Check the size of st_ino
$echo " "
$echo "Checking the size of st_ino..." >&4
$cat > try.c <<EOCP
#include <sys/stat.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() {
   struct stat st;
   printf("%d\n", (int)sizeof(st.st_ino));
   exit(0);
}
EOCP
set try
if eval $compile_ok; then
 val=`$run ./try`
 case "$val" in
 ") st_ino_size=4
  $echo "(I can't execute the test program--guessing $st_ino_size.)" >&4
  ;;
 *) st_ino_size=$val
  $echo "Your st_ino is $st_ino_size bytes long."
  ;;
 esac
else
```

```
 st_ino_size=4
 $echo "(I can't compile the test program--guessing $st_ino_size.)" >&4
fi
$rm_try

: Check if st_ino is signed
$echo " "
$echo "Checking the sign of st_ino..." >&4
$cat > try.c <<EOCP
#include <sys/stat.h>
#include <stdio.h>
int main() {
 struct stat foo;
       foo.st_ino = -1;
 if (foo.st_ino < 0)
  printf("-1\n");
 else
  printf("1\n");
}
EOCP
set
 try
if eval $compile; then
 val=`$run ./try`
 case "$val" in
 ") st_ino_sign=1
  $echo "(I can't execute the test program--guessing unsigned.)" >&4
  ;;
 *) st_ino_sign=$val
  case "$st_ino_sign" in
   1) $echo "Your st_ino is unsigned." ;;
  -1) $echo "Your st_ino is signed."   ;;
  esac
  ;;
 esac
else
 st_ino_sign=1
 $echo "(I can't compile the test program--guessing unsigned.)" >&4
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/st_ino_def.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_getprotoent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi

```
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getprotoent_r getprotoent_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getprotoent_r:
?S: This variable conditionally defines the HAS_GETPROTOENT_R symbol,
?S: which indicates to the C program that the getprotoent_r()
?S: routine is available.
?S:.
?S:getprotoent_r_proto:
?S: This variable encodes the prototype of getprotoent_r.
?S: It is zero if d_getprotoent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getprotoent_r
?S: is defined.
?S:.
?C:HAS_GETPROTOENT_R:
?C: This symbol, if defined, indicates that the getprotoent_r
 routine
?C: is available to getprotoent re-entrantly.
?C:.
?C:GETPROTOENT_R_PROTO:
?C: This symbol encodes the prototype of getprotoent_r.
?C: It is zero if d_getprotoent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getprotoent_r
?C: is defined.
?C:.
?H:#$d_getprotoent_r HAS_GETPROTOENT_R /**/
?H:#define GETPROTOENT_R_PROTO $getprotoent_r_proto /**/
?H:.
?T:try hdrs d_getprotoent_r_proto
: see if getprotoent_r exists
set getprotoent_r d_getprotoent_r
eval $inlibc
case "$d_getprotoent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getprotoent_r_proto:$usethreads" in
 ":define") d_getprotoent_r_proto=define
  set d_getprotoent_r_proto getprotoent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getprotoent_r_proto" in
```

```
 define)
 case "$getprotoent_r_proto" in
 "|0) try='int getprotoent_r(struct protoent*, char*, size_t, struct protoent**);'
 ./protochk "$extern_C $try" $hdrs && getprotoent_r_proto=I_SBWR
 ;;
 esac
 case "$getprotoent_r_proto" in
 "|0) try='int getprotoent_r(struct protoent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getprotoent_r_proto=I_SBI ;;
 esac
 case "$getprotoent_r_proto" in
 "|0) try='struct protoent* getprotoent_r(struct protoent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getprotoent_r_proto=S_SBI ;;
 esac
 case "$getprotoent_r_proto" in
 "|0) try='int getprotoent_r(struct protoent*, struct protoent_data*);'
 ./protochk "$extern_C $try" $hdrs && getprotoent_r_proto=I_SD ;;
 esac
 case "$getprotoent_r_proto" in
 "|0) d_getprotoent_r=undef
  getprotoent_r_proto=0
  echo "Disabling getprotoent_r, cannot determine prototype." >&4 ;;
 * ) case "$getprotoent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getprotoent_r_proto="REENTRANT_PROTO_$getprotoent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getprotoent_r has no prototype, not using it." >&4 ;;
  esac
  d_getprotoent_r=undef
  getprotoent_r_proto=0
  ;;
 esac
 ;;
*) getprotoent_r_proto=0
 ;;
esac
```

Found
 in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getprotoent_r.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: privlib.U,v 3.1 1999/07/08 18:32:29 doughera Exp doughera $

```
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: privlib.U,v $
?RCS: Revision 3.1  1999/07/08 18:32:29  doughera
?RCS: Updated for perl5.005_5x
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:17:09  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:44:23  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:31:52  ram
?RCS:
 patch32: now uses installation prefix
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:12:34  ram
?RCS: patch10: added support for /local/lib (WED)
?RCS: patch10: prompt phrasing made more explicit (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:privlib privlibexp installprivlib: package cat Getfile Oldconfig \
 Setprefixvar Prefixit version installstyle binexp
?MAKE: -pick add $@ %<
?Y:TOP
?D:privlib=''
?S:privlib:
?S: This variable contains the eventual value of the PRIVLIB symbol,
?S: which is the name of the private library for this package.  It may
?S: have a ~ on the front. It is up to the makefile to eventually create
?S: this directory while performing installation (with ~ substitution).
?S:.
?D:privlibexp=''
?S:privlibexp:
?S: This variable is the ~name expanded version of privlib, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installprivlib=''
```

```
?S:installprivlib:
?S: This variable
 is really the same as privlibexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?C:PRIVLIB:
?C: This symbol contains the name of the private library for this package.
?C: The library is private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.  The program
?C: should be prepared to do ~ expansion.
?C:.
?C:PRIVLIB_EXP:
?C: This symbol contains the ~name expanded version of PRIVLIB, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#define PRIVLIB "$privlib"  /**/
?H:#define PRIVLIB_EXP "$privlibexp"  /**/
?H:.
?LINT:change prefixvar
?LINT:set installprivlib
?LINT:set privlib
?LINT:set privlibexp
: determine where private library files go
: Usual default is /usr/local/lib/perl5/$version.
: Also allow things like /opt/perl/lib/$version, since
: /opt/perl/lib/perl5... would be redundant.
: The default "style"
 setting is made in installstyle.U
case "$installstyle" in
*lib/perl5*) set dflt privlib lib/$package/$version ;;
*)  set dflt privlib lib/$version ;;
esac
eval $prefixit
$cat <<EOM

There are some auxiliary files for $package that need to be put into a
private library directory that is accessible by everyone.

EOM
?X: Force dependency on bin.U
fn=$binexp
fn=d~+
rp='Pathname where the private library files will reside?'
. ./getfile
prefixvar=privlib
. ./setprefixvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/privlib.U
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```
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?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fp_class: Inlibc
?MAKE: -pick add $@ %<
?S:d_fp_class:
?S: This variable conditionally defines the HAS_FP_CLASS symbol, which
?S: indicates to the C program that the fp_class() routine is available.
?S:.
?C:HAS_FP_CLASS:
?C: This symbol, if defined, indicates that the fp_class routine is
?C: available to classify doubles.  Available for example in Digital UNIX.
?C: The returned values are defined in <math.h> and are:
?C:
?C: FP_SNAN           Signaling NaN (Not-a-Number)
?C: FP_QNAN           Quiet NaN (Not-a-Number)
?C: FP_POS_INF        +infinity
?C: FP_NEG_INF        -infinity
?C: FP_POS_NORM       Positive normalized
?C: FP_NEG_NORM       Negative normalized
?C: FP_POS_DENORM     Positive denormalized
?C: FP_NEG_DENORM
    Negative denormalized
?C: FP_POS_ZERO       +0.0 (positive zero)
?C: FP_NEG_ZERO       -0.0 (negative zero)
?C:.
?H:#$d_fp_class HAS_FP_CLASS  /**/
?H:.
?LINT:set d_fp_class
: see if fp_class exists
set fp_class d_fp_class
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fp_class.U
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```
?RCS: $Id: d_dlopen.U,v 3.0.1.2 1995/07/25 13:52:56 ram Exp $
```

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_dlopen.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  13:52:56  ram
?RCS: patch56: force compile-link test since symbol might lie in crt0.o (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:34  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_dlopen: Inlibc runnm d_cplusplus ccflags gccversion
?MAKE: -pick add $@ %<
?S:d_dlopen:
?S: This variable conditionally defines the HAS_DLOPEN
 symbol, which
?S: indicates to the C program that the dlopen() routine is available.
?S:.
?C:HAS_DLOPEN :
?C: This symbol, if defined, indicates that the dlopen routine is
?C: available.
?C:.
?H:#$d_dlopen HAS_DLOPEN  /**/
?H:.
?T: xxx_runnm
?T: xxx_ccflags
?LINT:set d_dlopen
?X: We don't permanently change runnm and ccflags, but we do temporarily.
?LINT: change runnm
?LINT: change ccflags
: see if dlopen exists
?X: On NetBSD and FreeBSD, dlopen is available, but it is in
?X: /usr/lib/crt0.o, not in any of the libraries.  Therefore, do not
?X: use the nm extraction, but use a real compile and link test instead.
xxx_runnm="$runnm"
xxx_ccflags="$ccflags"
runnm=false
: with g++ one needs -shared to get is-in-libc to work for dlopen
case "$gccversion" in
") ;;
*Clang*) ;;
```

```
*) case "$d_cplusplus" in
 "$define") ccflags="$ccflags -shared" ;;
 esac
 ;;
esac
set dlopen d_dlopen
eval $inlibc
runnm="$xxx_runnm"
ccflags="$xxx_ccflags"
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_dlopen.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_tzmin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_tzmin.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:16:58  ram
?RCS: patch36: call ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:49  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_tzmin: contains cppstdin cppminus timeincl rm Setvar Guess
?MAKE: -pick add $@ %<
?S:d_tzmin:
?S: This symbol conditionally defines TZ_MINUTESWEST if the system uses
?S: tz_minuteswest in time header instead of timezone.
?S:.
?C:TZ_MINUTESWEST:
?C: This
 symbol is defined if this system uses tz_minuteswest
?C: in time header instead of timezone.
?C: If not defined, you may have to use struct timeb and ftime() rather
?C: than the new gettimeofday() system call.
?C:.
?H:#$d_tzmin TZ_MINUTESWEST  /**/
?H:.
?LINT:set d_tzmin
```

```
: see if tz_minuteswest is defined in time header
echo " "
val="$undef"
$cppstdin $cppminus < $timeincl > try 2>&1
if $contains 'tz_minuteswest' try >/dev/null 2>&1; then
echo "You have tz_minuteswest defined in $timeincl rather than timezone." >&4
 val="$define"
elif $contains 'timezone' try >/dev/null 2>&1; then
echo "You have timezone defined in $timeincl rather than tz_minuteswest." >&4
else
 echo "Your $timeincl file looks strange." >&4
fi
if ./bsd; then
 case "$d_tzmin" in
 "$undef") echo "(Maybe your system is an USG one after all?)";;
 esac
fi
set d_tzmin
eval $setvar
$rm -f try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_tzmin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Getfile.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Getfile.U,v $
?RCS: Revision 3.0.1.7  1997/02/28  15:01:06  ram
?RCS: patch61: getfile script now begins with "startsh"
?RCS:
?RCS: Revision 3.0.1.6  1995/02/15  14:11:00  ram
?RCS: patch51: was not working if ~'s allowed with d_portable on (WED)
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:11:25  ram
?RCS: patch45: added support for escaping answers to skip various checks
?RCS: patch45: modified message issued after file expansion
?RCS:
?RCS: Revision
```

```
 3.0.1.4  1994/10/29  15:53:19  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.3  1994/05/06  14:23:36  ram
?RCS: patch23: getfile could be confused by file name in "locate" requests
?RCS: patch23: new 'p' directive to assume file is in people's path (WED)
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:01:31  ram
?RCS: patch16: added metalint hint on changed 'ans' variable
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  15:46:27  ram
?RCS: patch10: minor format problems and misspellings fixed
?RCS: patch10: now performs from package dir and not from UU subdir
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to get a file name and make some sanity checks. Optionally, a ~name
?X: expansion is performed.
?X:
?X: To use this unit, $rp and $dflt must hold the question and the
?X: default answer, which will be passed as-is
 to the myread script.
?X: The $fn variable must hold the file type (f or d, for file/directory).
?X: If $gfpth is set to a list of space-separated list of directories,
?X: those are prefixes for the filename.  Unless $gfpthkeep is set to 'y',
?X: gfpth is cleared on return from Getfile.
?X:
?X: If it is followed by a ~, then ~name substitution will occur. Upon return,
?X: $ans is set with the filename value. If a / is specified, then only a full
?X: path name is accepted (but ~ substitution occurs before, if needed). The
?X: expanded path name is returned in that case.
?X:
?X: If a + is specified, the existence checks are skipped. This usually means
?X: the file/directory is under the full control of the program.
?X:
?X: If the 'n' (none) type is used, then the user may answer none.
?X: The 'e' (expand) switch may be used to bypass d_portable, expanding ~name.
?X:
?X: If the 'l' (locate) type is used, then it must end with a ':' and then a
?X: file name. If the answer is a directory,
 the file name will be appended
?X: before testing for file existence. This is useful in locate-style
?X: questions like "where is the active file?". In that case, one should
?X: use:
?X:
```

```
?X:   dflt='~news/lib'
?X:   fn='l~:active'
?X:   rp='Where is the active file?'
?X:   . ./getfile
?X:   active="$ans"
?X:
?X: If the 'p' (path) letter is specified along with 'l', then an answer
?X: without a leading / will be expected to be found in everyone's path.
?X:
?X: It is also possible to include a comma-separated list of items within
?X: parentheses to specify which items should be accepted as-is with no
?X: further checks. This is useful when for instance a full path is expected
?X: but the user may escape out via "magical" answers.
?X:
?X: If the answer to the question is 'none', then the existence checks are
?X: skipped and the empty string is returned.
?X:
?MAKE:Getfile: d_portable contains startsh Myread Filexp tr trnl
?MAKE: -pick add $@ %<
?V:ansexp:fn gfpth gfpthkeep
?F:./getfile
?T:tilde
 type what orig_rp orig_dflt fullpath already redo skip none_ok \
 value exp_file nopath_ok loc_file fp pf dir direxp
?LINT:change ans
?LINT:change gfpth
: now set up to get a file name
cat <<EOS >getfile
$startsh
EOS
cat <<'EOSC' >>getfile
tilde=''
fullpath=''
already=''
skip=''
none_ok=''
exp_file=''
nopath_ok=''
orig_rp="$rp"
orig_dflt="$dflt"
case "$gfpth" in
'') gfpth='.' ;;
esac

?X: Begin by stripping out any (...) grouping.
case "$fn" in
*\(*)
 : getfile will accept an answer from the comma-separated list
```

```
 : enclosed in parentheses even if it does not meet other criteria.
 expr "$fn" : '.*(\(.*\)).*' | $tr ',' $trnl >getfile.ok
 fn=`echo $fn | sed 's/(.*)//'`
 ;;
esac

?X: Catch up 'locate' requests early, so that we may strip the file name
?X: before looking at the one-letter commands, in case the file name contains
?X: one of them. Reported by Wayne Davison <davison@borland.com>.
case "$fn" in
*:*)
 loc_file=`expr $fn : '.*:\(.*\)'`
 fn=`expr $fn : '\(.*\):.*'`
 ;;
esac

case
 "$fn" in
*~*) tilde=true;;
esac
case "$fn" in
*/*) fullpath=true;;
esac
case "$fn" in
*+*) skip=true;;
esac
case "$fn" in
*n*) none_ok=true;;
esac
case "$fn" in
*e*) exp_file=true;;
esac
case "$fn" in
*p*) nopath_ok=true;;
esac

case "$fn" in
*f*) type='File';;
*d*) type='Directory';;
*l*) type='Locate';;
esac

what="$type"
case "$what" in
Locate) what='File';;
esac

case "$exp_file" in
```

```
")
 case "$d_portable" in
 "$define") ;;
 *) exp_file=true;;
 esac
 ;;
esac

cd ..
while test "$type"; do
 redo=''
 rp="$orig_rp"
 dflt="$orig_dflt"
 case "$tilde" in
 true) rp="$rp (~name ok)";;
 esac
 . UU/myread
?X: check for allowed escape sequence which may be accepted verbatim.
 if test -f UU/getfile.ok && \
  $contains "^$ans\$" UU/getfile.ok >/dev/null 2>&1
 then
  value="$ans"
  ansexp="$ans"
  break
 fi
 case "$ans" in
 none)
  value=''
  ansexp=''
  case "$none_ok" in
  true) type='';;
  esac
  ;;
 *)
  case "$tilde" in
  '') value="$ans"
   ansexp="$ans";;
  *)
   value=`UU/filexp $ans`
   case
 $? in
   0)
    if test "$ans" != "$value"; then
     echo "(That expands to $value on this system.)"
    fi
    ;;
   *) value="$ans";;
   esac
```

```
  ansexp="$value"
  case "$exp_file" in
  ") value="$ans";;
  esac
  ;;
 esac
 case "$fullpath" in
 true)
?X: Perform all the checks on ansexp and not value since when d_portable
?X: is defined, the original un-expanded answer which is stored in value
?X: would lead to "non-existent" error messages whilst ansexp has been
?X: properly expanded. -- Fixed by Jan.Djarv@sa.erisoft.se (Jan Djarv)
?X: Always expand ~user if '/' was requested
  case "$ansexp" in
  /*) value="$ansexp" ;;
?X: Allow for c:/some/path
  [a-zA-Z]:/*) value="$ansexp" ;;
  *)
   redo=true
   case "$already" in
   true)
   echo "I shall only accept a full path name, as in /bin/ls." >&4
   echo "Use a ! shell escape if you wish to check pathnames." >&4
    ;;
   *)
   echo "Please give a full path name, starting with slash." >&4
    case "$tilde"
 in
    true)
   echo "Note that using ~name is ok provided it expands well." >&4
     already=true
     ;;
    esac
   esac
   ;;
  esac
  ;;
 esac
 case "$redo" in
 ")
  case "$type" in
  File)
   for fp in $gfpth; do
    if test "X$fp" = X.; then
        pf="$ansexp"
    else
        pf="$fp/$ansexp"
    fi
```

```
    if test -f "$pf"; then
     type="
    elif test -r "$pf" || (test -h "$pf") >/dev/null 2>&1
    then
     echo "($value is not a plain file, but that's ok.)"
     type="
    fi
    if test X"$type" = X; then
        value="$pf"
        break
    fi
   done
   ;;
  Directory)
   for fp in $gfpth; do
    if test "X$fp" = X.; then
        dir="$ans"
        direxp="$ansexp"
    else
        dir="$fp/$ansexp"
        direxp="$fp/$ansexp"
    fi
    if test -d "$direxp"; then
     type="
     value="$dir"
     break
    fi
   done
   ;;
  Locate)
   if test -d "$ansexp"; then
    echo "(Looking for $loc_file in directory
$value.)"
    value="$value/$loc_file"
    ansexp="$ansexp/$loc_file"
   fi
   if test -f "$ansexp"; then
    type="
   fi
   case "$nopath_ok" in
   true) case "$value" in
    */*) ;;
    *) echo "Assuming $value will be in people's path."
     type="
     ;;
    esac
    ;;
   esac
```

```
    ;;
   esac

   case "$skip" in
   true) type='';
   esac

   case "$type" in
   '') ;;
   *)
    if test "$fastread" = yes; then
     dflt=y
    else
     dflt=n
    fi
    rp="$what $value doesn't exist.  Use that name anyway?"
    . UU/myread
    dflt=''
    case "$ans" in
    y*) type='';;
    *) echo " ";;
    esac
    ;;
   esac
   ;;
  esac
  ;;
 esac
done
cd UU
ans="$value"
rp="$orig_rp"
dflt="$orig_dflt"
rm -f getfile.ok
test "X$gfpthkeep" != Xy && gfpth=''
EOSC
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Getfile.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_fsetpos.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_fsetpos.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  06:57:38  ram
?RCS: patch30: created
?RCS:
?MAKE:d_fsetpos: Inlibc
?MAKE: -pick add $@ %<
?S:d_fsetpos:
?S: This variable conditionally defines HAS_FSETPOS if fsetpos() is
?S: available to set the file position indicator.
?S:.
?C:HAS_FSETPOS:
?C: This symbol, if defined, indicates that the fsetpos routine is
?C: available to set the file position indicator, similar to fseek().
?C:.
?H:#$d_fsetpos
 HAS_FSETPOS /**/
?H:.
?LINT:set d_fsetpos
: see if fsetpos exists
set fsetpos d_fsetpos
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_fsetpos.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Instruct.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:02:55  ram
?RCS: patch61: logname / whoami sequence rewritten to use case
?RCS:
?RCS: Revision 3.0.1.2  1995/02/15  14:11:34  ram
?RCS: patch51: author name now appears at the end of the paragraph (WED)
?RCS:
```

```
?RCS: Revision 3.0.1.1  1995/01/11  15:12:05  ram
?RCS: patch45: now documents the & escape to turn -d on at the read prompt
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X:
 This unit spew out the directions that we want everyone to read.  I try to
?X: keep the first "pagefull" much less than a page since they don't know it
?X: isn't going to go shooting off the top of the screen, and we don't want
?X: to panic them yet.
?X:
?MAKE:Instruct: Begin Myread Configdir contains
?MAKE: -pick wipe $@ %<
?T:user needman firsttime
: general instructions
needman=true
firsttime=true
user=`(logname) 2>/dev/null`
case "$user" in
") user=`whoami 2>&1`;;
esac
if $contains "^$user\$" ../.config/instruct >/dev/null 2>&1; then
 firsttime=false
 echo " "
 rp='Would you like to see the instructions?'
 dflt=n
 . ./myread
 case "$ans" in
 [yY]*) ;;
 *) needman=false;;
 esac
fi
if $needman; then
 cat <<EOH

This installation shell script will examine your system and ask you questions
to determine how the <PACKAGENAME> package should be installed. If you get
stuck on a question, you may use a ! shell escape to start a subshell or
execute a command.  Many of the questions will have
 default answers in square
brackets; typing carriage return will give you the default.

On some of the questions which ask for file or directory names you are allowed
to use the ~name construct to specify the login directory belonging to "name",
even if you don't have a shell which knows about that.  Questions where this is
allowed will be marked "(~name ok)".
```

```
EOH
 rp=''
 dflt='Type carriage return to continue'
 . ./myread
 cat <<'EOH'

The prompter used in this script allows you to use shell variables and
backticks in your answers.  You may use $1, $2, etc...  to refer to the words
in the default answer, as if the default line was a set of arguments given to a
script shell.  This means you may also use $* to repeat the whole default line,
so you do not have to re-type everything to add something to the default.

Everytime there is a substitution, you will have to confirm.  If there is an
error (e.g. an unmatched backtick), the default answer will remain unchanged
and you will be prompted
 again.

If you are in a hurry, you may run 'Configure -d'.  This will bypass nearly all
the questions and use the computed defaults (or the previous answers if there
was already a config.sh file). Type 'Configure -h' for a list of options.
You may also start interactively and then answer '& -d' at any prompt to turn
on the non-interactive behaviour for the remainder of the execution.

EOH
 . ./myread
 cat <<EOH

Much effort has been expended to ensure that this shell script will run on any
Unix system.  If despite that it blows up on yours, your best bet is to edit
Configure and run it again.  If you can't run Configure for some reason,
you'll have to generate a config.sh file by hand.  Whatever problems you
have, let me (<MAINTLOC>) know how I blew it.

This installation script affects things in two ways:

1) it may do direct variable substitutions on some of the files included
  in this kit.
2) it builds a config.h file for inclusion in C programs.  You may edit
  any of these
 files as the need arises after running this script.

If you make a mistake on a question, there is no easy way to back up to it
currently.  The easiest thing to do is to edit config.sh and rerun all the SH
files.  Configure will offer to let you do this before it runs the SH files.

EOH
?X: In case they played with the prompter...
```

```
 dflt='Type carriage return to continue'
 . ./myread
 case "$firsttime" in
 true) echo $user >>../.config/instruct;;
 esac
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Instruct.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorlib.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorlib.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:d_vendorlib vendorlib vendorlibexp installvendorlib vendorlib_stem: \
 Getfile Setprefixvar Oldconfig Prefixit package vendorprefix sed \
 installstyle version
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorlib:
?S: This variable contains the eventual value of the VENDORLIB symbol,
?S: which is the name of the private library for this package.
?S: The standard
 distribution will put nothing in this directory.
?S: Vendors who distribute perl may wish to place their own
?S: modules in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorlibexp:
?S: This variable is the ~name expanded version of vendorlib, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorlib=''
?S:installvendorlib:
?S: This variable is really the same as vendorlibexp but may differ on
```

```
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?S:d_vendorlib:
?S: This variable conditionally defines PERL_VENDORLIB.
?S:.
?S:vendorlib_stem:
?S: This variable is $vendorlibexp with any trailing version-specific component
?S: removed.  The elements in inc_version_list (inc_version_list.U) can
?S: be tacked onto this variable to generate a list of directories to search.
?S:.
?C:PERL_VENDORLIB:
?C: If defined, this symbol contains
 the name of a private library.
?C: The library is private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.  The program
?C: should be prepared to do ~ expansion.
?C: The standard distribution will put nothing in this directory.
?C: Vendors who distribute perl may wish to place their own
?C: modules in this directory with
?C:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?C: or equivalent.  See INSTALL for details.
?C:.
?C:PERL_VENDORLIB_EXP:
?C: This symbol contains the ~name expanded version of VENDORLIB, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?C:PERL_VENDORLIB_STEM:
?C: This define is PERL_VENDORLIB_EXP with any trailing version-specific component
?C: removed.  The elements in inc_version_list (inc_version_list.U) can
?C: be tacked onto this variable to generate a list of directories to search.
?C:.
?H:#$d_vendorlib PERL_VENDORLIB "$vendorlib"  /**/
?H:#$d_vendorlib PERL_VENDORLIB_EXP
 "$vendorlibexp"  /**/
?H:#$d_vendorlib PERL_VENDORLIB_STEM "$vendorlib_stem"  /**/
?H:.
?T:prog
?LINT:change prefixvar
?LINT:set installvendorlib
: Set the vendorlib variables
case "$vendorprefix" in
") d_vendorlib="$undef"
 vendorlib="
 vendorlibexp="
 ;;
*) d_vendorlib="$define"
 : determine where vendor-supplied modules go.
```

```
 : Usual default is /usr/local/lib/perl5/vendor_perl/$version
 case "$vendorlib" in
 ")
?X:  remove any trailing -3.0 or other version identification
  prog=`echo $package | $sed 's/-*[0-9.]*$//'`
  case "$installstyle" in
  *lib/perl5*) dflt=$vendorprefix/lib/$package/vendor_$prog/$version ;;
  *)      dflt=$vendorprefix/lib/vendor_$prog/$version ;;
  esac
  ;;
 *) dflt="$vendorlib"
  ;;
 esac
 fn=d~+
 rp='Pathname for the vendor-supplied library files?'
 . ./getfile
 vendorlib="$ans"
 vendorlibexp="$ansexp"
 ;;
esac
vendorlib_stem=`echo "$vendorlibexp" | sed "s,/$version$,,"`
prefixvar=vendorlib
. ./installprefix
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/vendorlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Signal.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Signal.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:20:01  ram
?RCS: patch61: created
?RCS:
?X:
?X: This unit produces three files:
?X: 1- A signal.c file, which, when compiled and run, produces an output like:
?X:
?X:   HUP 1
```

```
?X:   INT 2
?X:   QUIT 3
?X:   etc...
?X:
?X: 2- A signal.awk script to parse the output of signal.c, fill
?X: in gaps (up to NSIG) and move duplicates to the end.
?X: 3- A signal_cmd script to compile signal.c and run it
?X: through
 sort -n -k 2 | uniq | awk -f signal.awk.
?X: (we try also sort -n +1 since some old hosts don't grok sort -k)
?X: (This is called signal_cmd to avoid OS/2 confusion with
?X: signal.cmd vs. signal.
?X: The signal_cmd script also falls back on checking signals one at a
?X: time in case the signal.c program fails.  On at least one version of
?X: Linux 2.1.x, the header file #define'd SIGRTMAX to a symbol that
?X: is not defined by the compiler/linker. :-(.  Further, on that same
?X: version of Linux, the user had a defective C-shell that gave an
?X: incorrect list for kill -l, so the fall-back didn't work.
?X:
?X: This unit is then used by sig_name.U.
?X:
?MAKE:Signal: test tr rm awk cat grep startsh eunicefix sed sort uniq \
 Findhdr cppstdin +cppflags cppminus Compile _o _exe trnl run i_stdlib \
 sysroot
?MAKE: -pick add $@ %<
?X:all files declared as "public" since they're used from other units
?F:signal.c signal_cmd signal.lst signal signal.awk
?T: xx xxx xxxfiles
?LINT:use rm run
 _o _exe
?LINT:extern sig_num_init
: Trace out the files included by signal.h, then look for SIGxxx names.
?X: Remove SIGARRAYSIZE used by HPUX.
?X: Remove SIGSTKSIZE used by Linux.
?X: Remove SIGSTKSZ used by POSIX.
?X: Remove SIGTYP void lines used by OS2.
?X: Some cpps, like os390, do not give the file name anywhere
case "$sig_num_init" in
")
if [ "X$fieldn" = X ]; then
 : Just make some guesses.  We check them later.
 xxx="$sysroot/usr/include/signal.h $sysroot/usr/include/sys/signal.h"
else
 xxx=`echo '#include <signal.h>' |
 $cppstdin $cppminus $cppflags 2>/dev/null |
 $grep '^[  ]*#.*include' |
 $awk "{print \\$$fieldn}" | $sed 's!"!!g' |\
  $sed 's!\\\\\\\\!/!g' | $sort | $uniq`
```

```
fi
?X: Check this list of files to be sure we have parsed the cpp output ok.
?X: This will also avoid potentially non-existent files, such
?X: as ../foo/bar.h
xxxfiles="
?X: Add /dev/null in case the $xxx list is empty.
for xx in $xxx /dev/null ; do
 $test -f "$xx" && xxxfiles="$xxxfiles $xx"
done
?X:
 If we have found no files, at least try signal.h
case "$xxxfiles" in
") xxxfiles=`./findhdr signal.h` ;;
esac
xxx=`awk '
$1 ~ /^#define$/ && $2 ~ /^SIG[A-Z0-9]*$/ && $2 !~ /SIGARRAYSIZE/ && $2 !~ /SIGSTKSIZE/ && $2 !~
/SIGSTKSZ/ && $3 !~ /void/ {
 print substr($2, 4, 20)
}
$1 == "#" && $2 ~ /^define$/ && $3 ~ /^SIG[A-Z0-9]*$/ && $3 !~ /SIGARRAYSIZE/ && $4 !~ /void/ {
 print substr($3, 4, 20)
}' $xxxfiles`
: Append some common names just in case the awk scan failed.
xxx="$xxx ABRT ALRM BUS CANCEL CHLD CLD CONT DIL EMT FPE"
xxx="$xxx FREEZE HUP ILL INT IO IOT KILL LOST LWP PHONE"
xxx="$xxx PIPE POLL PROF PWR QUIT RTMAX RTMIN SEGV STKFLT STOP"
xxx="$xxx SYS TERM THAW TRAP TSTP TTIN TTOU URG USR1 USR2"
xxx="$xxx USR3 USR4 VTALRM WAITING WINCH WIND WINDOW XCPU XFSZ"

: generate a few handy files for later
$cat > signal.c <<EOCP
#include <sys/types.h>
#include <signal.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <stdio.h>
int main() {

/* Strange style to avoid
 deeply-nested #if/#else/#endif */
#ifndef NSIG
#  ifdef _NSIG
#    define NSIG (_NSIG)
#  endif
#endif
```

```
#ifndef NSIG
#  ifdef SIGMAX
#    define NSIG (SIGMAX+1)
#  endif
#endif

#ifndef NSIG
#  ifdef SIG_MAX
#    define NSIG (SIG_MAX+1)
#  endif
#endif

#ifndef NSIG
#  ifdef _SIG_MAX
#    define NSIG (_SIG_MAX+1)
#  endif
#endif

#ifndef NSIG
#  ifdef MAXSIG
#    define NSIG (MAXSIG+1)
#  endif
#endif

#ifndef NSIG
#  ifdef MAX_SIG
#    define NSIG (MAX_SIG+1)
#  endif
#endif

#ifndef NSIG
#  ifdef SIGARRAYSIZE
#    define NSIG SIGARRAYSIZE /* Assume ary[SIGARRAYSIZE] */
#  endif
#endif

#ifndef NSIG
#  ifdef _sys_nsig
#    define NSIG (_sys_nsig) /* Solaris 2.5 */
#  endif
#endif

/* Default to some arbitrary number that's big enough to get most
  of the common signals.
*/
#ifndef NSIG
#    define NSIG 50
#endif
```

```
printf("NSIG %d\n", NSIG);

#ifndef JUST_NSIG

EOCP

echo $xxx | $tr ' ' $trnl | $sort | $uniq | $awk '
{
 printf "#ifdef SIG"; printf $1; printf "\n"
 printf "printf(\"";
 printf $1; printf " %%d\\n\",SIG";
 printf $1; printf ");\n"
 printf "#endif\n"
}
END {
 printf "#endif /* JUST_NSIG */\n";
 printf "exit(0);\n}\n";
}
' >>signal.c
$cat >signal.awk <<'EOP'
BEGIN { ndups = 0 }
$1 ~ /^NSIG$/ { nsig = $2 }
($1 !~ /^NSIG$/) && (NF == 2) && ($2 ~ /^[0-9][0-9]*$/) {
   if ($2 > maxsig) { maxsig = $2 }
   if (sig_name[$2]) {
 dup_name[ndups] = $1
 dup_num[ndups] = $2
 ndups++
   }
   else {
 sig_name[$2] = $1
 sig_num[$2] = $2
   }
}
END {
   if (nsig == 0) {
    nsig = maxsig + 1
   }
   printf("NSIG %d\n", nsig);
   for (n = 1; n < nsig; n++) {
 if (sig_name[n]) {
     printf("%s %d\n", sig_name[n], sig_num[n])
 }
 else {
     printf("NUM%d %d\n", n, n)
 }
   }
```

```
   for (n = 0; n < ndups; n++) {
 printf("%s %d\n", dup_name[n], dup_num[n])
   }
}
EOP
$cat >signal_cmd <<EOS
$startsh
if $test -s signal.lst; then
   echo "Using your existing signal.lst file"
 exit 0
fi
xxx="$xxx"
EOS
?X: Avoid variable interpolation problems, especially with
?X:
 xxx, which contains newlines.
$cat >>signal_cmd <<'EOS'

set signal
if eval $compile_ok; then
 $run ./signal$_exe | ($sort -n -k 2 2>/dev/null || $sort -n +1) |\
  $uniq | $awk -f signal.awk >signal.lst
else
 echo "(I can't seem be able to compile the whole test program)" >&4
 echo "(I'll try it in little pieces.)" >&4
 set signal -DJUST_NSIG
 if eval $compile_ok; then
  $run ./signal$_exe > signal.nsg
  $cat signal.nsg
 else
  echo "I can't seem to figure out how many signals you have." >&4
  echo "Guessing 50." >&4
  echo 'NSIG 50' > signal.nsg
 fi
 : Now look at all the signal names, one at a time.
 for xx in `echo $xxx | $tr ' ' $trnl | $sort | $uniq`; do
  $cat > signal.c <<EOCP
#include <sys/types.h>
#include <signal.h>
#include <stdio.h>
int main() {
printf("$xx %d\n", SIG${xx});
return 0;
}
EOCP
  set signal
  if eval $compile; then
   echo "SIG${xx} found."
```

```
  $run ./signal$_exe  >> signal.ls1
 else
  echo "SIG${xx} NOT found."
 fi
done
if $test -s signal.ls1; then
 $cat
signal.nsg signal.ls1 |
  $sort -n | $uniq | $awk -f signal.awk >signal.lst
fi

fi
if $test -s signal.lst; then
 :
else
 echo "(AAK! I can't compile the test programs -- Guessing)" >&4
 echo 'kill -l' >signal
 set X `csh -f <signal`
 $rm -f signal
 shift
 case $# in
 0) set HUP INT QUIT ILL TRAP ABRT EMT FPE KILL BUS SEGV SYS PIPE ALRM TERM;;
 esac
 echo $@ | $tr ' ' $trnl | \
    $awk '{ printf "%s %d\n", $1, ++s; }
   END { printf "NSIG %d\n", ++s }' >signal.lst
fi
$rm -f signal.c signal$_exe signal$_o signal.nsg signal.ls1
EOS
chmod a+x signal_cmd
$eunicefix signal_cmd
;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Signal.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: MailAuthor.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: MailAuthor.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  15:04:41  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.4  1994/08/29  16:05:09  ram
?RCS: patch32: avoid message sending if they said no previously
?RCS:
?RCS: Revision 3.0.1.3  1993/10/16  13:47:30  ram
?RCS: patch12: now makes sure user-specified address is in Internet format
?RCS:
?RCS: Revision
 3.0.1.2  1993/09/13  15:48:49  ram
?RCS: patch10: reverted to original intent by the Author himself
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:38:38  ram
?RCS: patch7: now prompts user for its e-mail address
?RCS: patch7: no longer silent when mail has been sent
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:06  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?RCS:
?X:
?X: This unit asks the user to please send a message to the author.
?X: To force inclusion of this unit, you must add it's name to the
?X: dependancies on the MAKE line in your private copy of End.U.
?X: This allows a smart mailagent program to automatically let users know
?X: when their package is out of date, and to allow users to be notified of
?X: any future patches.
?X:
?MAKE:MailAuthor mailpatches notifypatches usermail: test cat mailer \
 package Myread patchlevel baserev rm rsrc Oldconfig Configdir
?MAKE: -pick wipe $@ %<
?S:mailpatches:
?S: Indicates whether the user would like future patches to be mailed
?S: directly
 to them.
?S:.
?S:notifypatches:
?S: Indicates whether the user would like notification of future patches
?S: mailed to them.
?S:.
?S:usermail:
?S: This variable is used internally by Configure to keep track of the
?S: user e-mail address, where notifications or patches should be sent.
```

```
?S: A '-' value means the return address will be extracted by parsing
?S: the mail headers.
?S:.
?T:opt mailpatches notifypatches atsh status
: notify author that his package is used
if $test -f ../.config/mailauthor &&
 cmp $rsrc/patchlevel.h ../.config/mailauthor >/dev/null 2>&1
then
 status="say that you're using $package";
 case "$mailpatches" in
 true) status='have patches mailed to you as they are issued';;
 esac
 case "$notifypatches" in
 true) status='be notified when new patches are issued';;
 esac
 $cat <<EOM

You have already sent the author of $package (<MAINTLOC>) mail to
$status. If you wish, you may modify
your previous request by sending a new mail with different options.

EOM
 rp='Should
 I send a status update to <MAINTLOC>?'
 dflt=n
else
 $cat <<EOM

If you are able to send mail to the Internet, the author of $package would
really appreciate you letting me send off a quick note, just to say that you've
tried it. The author is more likely to spend time maintaining $package if it's
known that many people are using it, and you can even ask to get sent new
patches automagically this way if you wish. To protect your privacy, all I'll
say in the mail is the version of $package that you're using.

EOM
 rp='Should I send mail to <MAINTLOC>?'
 dflt=y
?X: Ensure default is 'n' if question has been asked already, in case they
?X: run Configure -d next time and answered 'n' the first time. Therefore,
?X: an empty nomail will be created later on even if no mail is sent.
 $test -f ../.config/nomail && dflt=n
fi
. ./myread
case "$ans" in
[yY]*)
 echo " "
 echo "Great! Your cooperation is really appreciated."
```

```
 $cat <<EOM

Some braindead sites do not set a proper return
 address in the From: header of
their outgoing mail, making it impossible to reply to mail they generate.
If your site is broken in this way, write to your system administrator and get
it fixed!!! In the mean time, you can manually specify the Internet e-mail
address by which the author can get back to you, should there be a need to do
so. If manually specified, it should be something like "user@domain.top".
If your mail system generates addresses correctly, specify "none".

EOM
 case "$usermail" in
 '-'|'') dflt=none;;
 *) dflt="$usermail";;
 esac
 rp='Manually specify a return address to use:'
 . ./myread
 case "$ans" in
 none|*@*.*)
  case "$ans" in
  none) usermail='-';;
  *) usermail="$ans";;
  esac
  ;;
 *)
  echo "(Address does not look like an Internet one -- ignoring it.)"
?X:
?X: If we can't trust their mailer or their return address, it's highly
?X: suggested that they only register and don't ask to get anything from
?X: the author, since it's likely to bounce in null-land --
 RAM.
?X:
  usermail='-'
  mailpatches=false
  notifypatches=false
  ;;
 esac
 echo " "
 opt=''
 rp='Would you like to have new patches automatically mailed to you?'
 case "$mailpatches" in
 true) dflt=y;;
 *) dflt=n;;
 esac
 . ./myread
 case "$ans" in
 [yY]*) opt=' mailpatches'; mailpatches=true;;
```

```
 *)
  mailpatches=false
  echo " "
  rp='Ok, would you like to simply be notified of new patches?'
  case "$notifypatches" in
  false) dflt=n;;
  *) dflt=y;;
  esac
  . ./myread
  echo " "
  case "$ans" in
  [yY]*) opt=' notifypatches'; notifypatches=true;;
  *)
   echo "Fine, I'll simply say that you've tried it then."
   notifypatches=false
   ;;
  esac
  ;;
 esac
 echo "Sending mail to <MAINTLOC>..." >&4
?X: Bizarre hack here. We can't just put @SH in the hereis lines below, because
?X: metaconfig will interpret it as a command, and there's no quoting mechanism.
?X: Do it via a variable instead.
 atsh='@SH'
 $mailer <MAINTLOC> <<EOM >/dev/null 2>&1
Subject: Command
Precedence: junk
To: <MAINTLOC>

$atsh
 package $usermail $package $baserev $patchlevel$opt
EOM
 $rm -f ../.config/mailauthor ../.config/nomail
 cp $rsrc/patchlevel.h ../.config/mailauthor
 ;;
*)
 case "$dflt" in
 "y")
  echo "Oh well, maybe next time."
  cp /dev/null ../.config/nomail
  ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/MailAuthor.U

No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_log2: Inlibc
?MAKE: -pick add $@ %<
?S:d_log2:
?S: This variable conditionally defines the HAS_LOG2 symbol, which
?S: indicates to the C program that the log2() routine is available
?S: to compute log base two.
?S:.
?C:HAS_LOG2:
?C: This symbol, if defined, indicates that the log2 routine is
?C: available to do the log2 function.
?C:.
?H:#$d_log2 HAS_LOG2  /**/
?H:.
?LINT:set d_log2
: see if log2 exists
set log2 d_log2
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_log2.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_vprintf.U,v 3.0 1993/08/18 12:07:59 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_vprintf.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:59  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_vprintf d_charvspr: Compile Guess cat Csym Setvar run rm_try \
 i_stdlib i_unistd i_stdarg i_varargs
?MAKE: -pick add $@ %<
?S:d_vprintf:
?S: This variable conditionally defines the HAS_VPRINTF symbol, which
?S: indicates to the C program that the vprintf() routine is available
```

```
?S: to printf with a pointer to an argument list.
?S:.
?S:d_charvspr:
?S: This
 variable conditionally defines CHARVSPRINTF if this system
?S: has vsprintf returning type (char*).  The trend seems to be to
?S: declare it as "int vsprintf()".
?S:.
?C:HAS_VPRINTF (VPRINTF):
?C: This symbol, if defined, indicates that the vprintf routine is available
?C: to printf with a pointer to an argument list.  If unavailable, you
?C: may need to write your own, probably in terms of _doprnt().
?C:.
?C:USE_CHAR_VSPRINTF (CHARVSPRINTF):
?C: This symbol is defined if this system has vsprintf() returning type
?C: (char*).  The trend seems to be to declare it as "int vsprintf()".  It
?C: is up to the package author to declare vsprintf correctly based on the
?C: symbol.
?C:.
?H:#$d_vprintf HAS_VPRINTF /**/
?H:#$d_charvspr USE_CHAR_VSPRINTF /**/
?H:.
?T:val2
?F:!try
?LINT:set d_vprintf d_charvspr
: see if vprintf exists
echo " "
if set vprintf val -f d_vprintf; eval $csym; $val; then
 echo 'vprintf() found.' >&4
 val="$define"
 $cat >try.c <<EOF
#$i_stdarg I_STDARG  /*
 Only one of these can be defined by i_varhrd */
#$i_varargs I_VARARGS

#$i_stdlib I_STDLIB
#$i_unistd I_UNISTD

#ifdef I_STDARG
#  include <stdarg.h>
#else /* I_VARARGS */
#  include <varargs.h>
#endif

#ifdef I_UNISTD
#  include <unistd.h>
#endif
```

```
#ifdef I_STDLIB
#  include <stdlib.h>
#endif

#include <stdio.h> /* vsprintf prototype */

#ifdef I_STDARG
void xxx(int n, ...)
{
   va_list args;
   char buf[10];
   va_start(args, n);
   exit((unsigned long)vsprintf(buf,"%s",args) > 10L);
}
int main() { xxx(1, "foo"); }

#else /* I_VARARGS */

xxx(va_alist)
va_dcl
{
   va_list args;
   char buf[10];
   va_start(args);
   exit((unsigned long)vsprintf(buf,"%s",args) > 10L);
}
int main() { xxx("foo"); }

#endif

EOF
 set try
 if eval $compile_ok; then
  if $run ./try; then
   echo "Your vsprintf() returns (int)." >&4
   val2="$undef"
  else
   echo "Your vsprintf() returns (char*)." >&4
   val2="$define"
  fi
 else
  echo 'I am unable to compile the vsprintf() test program.' >&4
  #
 We shouldn't get here.  If we do, assume the standard signature,
  # not the old BSD one.
  echo 'Guessing that vsprintf() returns (int).' >&4
  val2="$undef"
 fi
```

```
else
 echo 'vprintf() NOT found.' >&4
 val="$undef"
 val2="$undef"
fi
$rm_try
set d_vprintf
eval $setvar
val=$val2
set d_charvspr
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_vprintf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getgrent.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_getgrent.U,v $
?RCS:
?MAKE:d_getgrent: Inlibc
?MAKE: -pick add $@ %<
?S:d_getgrent:
?S: This variable conditionally defines the HAS_GETGRENT symbol, which
?S: indicates to the C program that the getgrent() routine is available
?S: for sequential access of the group database.
?S:.
?C:HAS_GETGRENT:
?C: This symbol, if defined, indicates that the getgrent routine is
?C: available for sequential access of the group database.
?C:.
?H:#$d_getgrent HAS_GETGRENT  /**/
?H:.
?LINT:set d_getgrent
: see if getgrent exists
set getgrent d_getgrent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_getgrent.U

No license file was found, but licenses were detected in source scan.

```
?RCS:
?RCS: Copyright (c) 2012 Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:ilp d_ilp32 d_ilp64 d_lp64 d_can64: Assert Myread Setvar \
 cat rm +cc +ccflags echo n c intsize longsize ptrsize
?MAKE: -pick add $@ %<
?S:ilp:
?S: This variable contains the largest amount of bits that the CPU supports,
?S: from the compiler's point of view.  Typically 32 or 64.
?S:.
?S:d_ilp32:
?S: This variable conditionally defines the CPU_IS_ILP32.
?S:.
?S:d_ilp64:
?S: This variable conditionally defines the CPU_IS_ILP64.
?S:.
?S:d_lp64:
?S: This variable conditionally defines the CPU_IS_LP64.
?S:.
?S:d_can64:
?S: This variable
 conditionally defines CAN_HANDLE_64BITS.
?S:.
?C:CPU_ILP_MAXBITS:
?C: This symbol contains the largest amount of bits that the CPU natively
?C: supports from the compiler's point of view.  Typically 32 or 64.
?C:.
?C:CPU_IS_ILP32:
?C: When defined, this indicates that the integer, long and pointer variables
?C: hold 32-bit values.
?C:.
?C:CPU_IS_ILP64:
?C: When defined, this indicates that the integer, long and pointer variables
?C: hold 64-bit values.
?C:.
?C:CPU_IS_LP64:
?C: When defined, this indicates that the long and pointer variables hold
?C: 64-bit values but integers are smaller (probably only 32-bit wide).
?C:.
?C:CAN_HANDLE_64BITS:
```

```
?C: When defined, this indicates that the compiler can handle 64-bit values
?C: despite the CPU having only 32-bit registers.  These are available using
?C: the "long long" C type.  It is only defined for ILP32 machines, since
?C: 64-bit support is naturally available on ILP64 and LP64 machines.
?C:.
?H:#define CPU_ILP_MAXBITS $ilp
?H:#$d_ilp32
 CPU_IS_ILP32 /**/
?H:#$d_ilp64 CPU_IS_ILP64 /**/
?H:#$d_lp64 CPU_IS_LP64  /**/
?H:#$d_can64 CAN_HANDLE_64BITS /**/
?H:.
?LINT: set d_ilp32 d_ilp64 d_lp64 d_can64
: check for architecture type
echo " "
$echo $n "Computing CPU architecture type...$c" >&4
ilp=`expr $longsize \* 8`
case "$ptrsize" in
8)
 val=$undef; set d_ilp32; eval $setvar
 case "$intsize" in
 8)
  echo " ILP64." >&4
  val=$define; set d_ilp64; eval $setvar
  val=$undef; set d_lp64; eval $setvar
  ;;
 *)
  echo " LP64." >&4
  val=$define; set d_lp64; eval $setvar
  val=$undef; set d_ilp64; eval $setvar
  ;;
 esac
 ;;
*)
 echo " ILP${ilp}." >&4
 case "$ilp" in
 32) val=$define;;
 *) val=$undef;;
 esac
 set d_ilp32; eval $setvar
 val=$undef; set d_ilp64; eval $setvar
 val=$undef; set d_lp64; eval $setvar
 ;;
esac

@if CAN_HANDLE_64BITS || d_can64
: see whether compiler supports 64-bit emulation
val=$undef
```

```
case "$ilp" in
64) val=$define;;
*)
 $cat >try.c <<EOCP
#include "static_assert.h"
long long foo;
int main()
{
 STATIC_ASSERT(8
 == sizeof(foo));
 return 0;
}
EOCP
 if $cc -c $ccflags try.c >/dev/null 2>&1; then
  echo " "
  echo "Your compiler also supports 64-bit emulation." >&4
  val=$define
 fi
 $rm -f try.*
 ;;
esac
set d_can64
eval $setvar

@end
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/ilp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_statvfs d_fstatvfs: Inlibc
?MAKE: -pick add $@ %<
?S:d_statvfs:
?S: This variable conditionally defines the HAS_STATVFS symbol, which
?S: indicates to the C program that the statvfs() routine is available.
?S:.
?S:d_fstatvfs:
?S: This variable conditionally defines the HAS_FSTATVFS symbol, which
?S: indicates to the C program that the fstatvfs() routine is available.
?S:.
```

```
?C:HAS_STATVFS:
?C: This symbol, if defined, indicates that the statvfs routine is
?C: available to stat filesystems by filenames.
?C:.
?C:HAS_FSTATVFS:
?C: This symbol, if defined, indicates that the fstatvfs routine is
?C: available to stat filesystems by file descriptors.
?C:.
?H:#$d_statvfs HAS_STATVFS  /**/
?H:#$d_fstatvfs
 HAS_FSTATVFS  /**/
?H:.
?LINT:set d_statvfs
?LINT:set d_fstatvfs
: see if statvfs exists
set statvfs d_statvfs
eval $inlibc

: see if fstatvfs exists
set fstatvfs d_fstatvfs
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_statvfs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2016 Dagfinn Ilmari Mannsker & H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X:
?X: This unit produces a variable that is intended to be eval'ed in
?X: order to define/undefine a symbol. A consistency check is made
?X: regarding any previous value and a warning is issued if there
?X: is any discrepancy.
?X:
?X: To use it, say:
?X: set d_siginfo_si_errno siginfo_t int si_errno $d_sigaction signal.h
?X: eval $hasfield_t;
?X:
?MAKE:Hasfield_t: test Compile rm_try Setvar
?MAKE: -pick add $@ %<
?LINT:define hasfield_t
?S:hasfield_t:
?S: Internal macro for Configure
?S:.
```

```
?V:hasfield_t:
?T:varname struct type field
: Define hasfield_t macro for Configure internal use
hasfield_t='varname=$1; struct=$2; type=$3; field=$4; shift; shift; shift; shift;
while $test $# -ge 2; do
   case
 "$1" in
 $define) echo "#include <$2>";;
   esac ;
   shift 2;
done > try.c;
echo "int main () { $struct foo; $type bar = foo.$field; }" >> try.c;
set try;
if eval $compile; then
 val="$define";
else
 val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try'
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/Hasfield_t.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endpwent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_endpwent_r endpwent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_pwd extern_C
?MAKE: -pick add $@ %<
?S:d_endpwent_r:
?S: This variable conditionally defines the HAS_ENDPWENT_R symbol,
?S: which indicates to the C program that the endpwent_r()
?S: routine is available.
?S:.
?S:endpwent_r_proto:
?S: This variable encodes the prototype of endpwent_r.
?S: It is zero if d_endpwent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endpwent_r
?S: is defined.
```

```
?S:.
?C:HAS_ENDPWENT_R:
?C: This symbol, if defined, indicates that the endpwent_r routine
?C: is available to
 endpwent re-entrantly.
?C:.
?C:ENDPWENT_R_PROTO:
?C: This symbol encodes the prototype of endpwent_r.
?C: It is zero if d_endpwent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endpwent_r
?C: is defined.
?C:.
?H:#$d_endpwent_r HAS_ENDPWENT_R /**/
?H:#define ENDPWENT_R_PROTO $endpwent_r_proto /**/
?H:.
?T:try hdrs d_endpwent_r_proto
: see if endpwent_r exists
set endpwent_r d_endpwent_r
eval $inlibc
case "$d_endpwent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_pwd pwd.h"
 case "$d_endpwent_r_proto:$usethreads" in
 ":define") d_endpwent_r_proto=define
  set d_endpwent_r_proto endpwent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_endpwent_r_proto" in
 define)
 case "$endpwent_r_proto" in
 "|0) try='int endpwent_r(FILE**);'
 ./protochk "$extern_C $try" $hdrs && endpwent_r_proto=I_H ;;
 esac
 case "$endpwent_r_proto" in
 "|0) try='void endpwent_r(FILE**);'
 ./protochk "$extern_C $try" $hdrs && endpwent_r_proto=V_H ;;
 esac
 case "$endpwent_r_proto"
 in
 "|0) d_endpwent_r=undef
  endpwent_r_proto=0
  echo "Disabling endpwent_r, cannot determine prototype." >&4 ;;
 * ) case "$endpwent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) endpwent_r_proto="REENTRANT_PROTO_$endpwent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
```

```
 esac
 ;;
 *) case "$usethreads" in
  define) echo "endpwent_r has no prototype, not using it." >&4 ;;
  esac
  d_endpwent_r=undef
  endpwent_r_proto=0
  ;;
 esac
 ;;
*) endpwent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_endpwent_r.U
No license file was found, but licenses were detected in source scan.

Perl5 Metaconfig Units

Copyright (c) 1996-1998, Andy Dougherty
Copyright (c) 1999-2011, H.Merijn Brand
All rights reserved.

These units are the ones used to build Configure and config_h.SH
in the Perl5 distribution.

metaconfig will first look in its standard locations (specified when you
installed dist). It will then recurse through the 'U' subdirectory
and find any additional "private" units. Private units override
standard ones supplied with metaconfig.

Files in this directory:

README
This file.

Glossary.patch
The standard dist units contain some strings that make pod2man
complain. This patch silences those warnings. As new units are
added and Configure is regenerated, this patch may need more and more
'fuzz' to be applied. It should be freshly regenerated every once
in a while. See also mkgloss.pl

ln-all.pl
Re-generate the all/ folder

mkglossary
A script
to regenerate Porting/Glossary. You have to manually
edit the top of the script to point the location of your metaconfig
units. It is called automatically by 'mksample'. See also mkgloss.pl

mkgloss.pl
A perl script that calls U/mkglossary from the perl source tree, sorts
the list of symbols, and applies the patch mentioned in Glossary.patch.
When called on its own, redirect the output to a temporary file, and
compare that file to Porting/Glossary before applying.

mksample
A script to regenerate Porting/config.sh and Porting/config.H.
It also calls mkglossary, if necessary.

Subdirectories:

The units and other related files have been broken up into the following
directories.

a_dvisory/
These are units that have to go first in the generated config_h.SH.
A word of explanation: Configure and config_h.SH are generated from 'Units'
(the *.U files). Files indicate dependencies (using make(1)), and
Configure is built to follow those dependencies.
However, config_h.SH
is simply built by putting all the units in alphabetical order and
extracting the relevant lines. (This could be fixed, I suppose, but
it wasn't trivial the one time I looked.)
The a_dvisory/ directory, then, is a place to put units that need
to be early in config_h.SH. (Most units are self-contained
and ought to be able to go anywhere. However, some things, like
byteorder, need to have the #defines from multiarch available.)

acl/
This is an old patch to begin to detect and use ACL (access
control list) file protection schemes.

all/
A folder that conveniently holds symbolic links to all the modules
that are used to build the current Configure and config_h.SH.

compline/
These are similar to the standard units, but I have modified them
to have a more uniform compile command line, usually using the
new Compile.U unit. (The ccflags.U unit is perl-specific since it
mentions -DDEBUGGING and

-DPOSIX_SOURCE, but that's the only place
it is perl-specific.)

dist_patches/
These are patches to dist that must be applied before it is built
and installed. I have submitted these for inclusion in the
regular dist distribution. They have already been applied
to the ../dist-3.0at70b directory.

ebcdic/
These are units that had to be specially modified to work under
either EBCDIC or ASCII.

installdirs/
These are units to handle perl's installation directories and
related issues.

modified/
These are modified versions of the standard units. Also included in
this directory are new units that are clearly derived from existing
units. I have submitted these for inclusion in the regular dist
distribution.

nullified/
These are null units that replace units in the standard
distribution. Typically they are there because some part of the
perl source accidentally uses a symbol that metaconfig thinks means we
want the corresponding
unit.

perl/
These are specific to perl. Some are heavily derived from
original dist units, and are marked as such. Others are original.

perl_patches/
These are patches to the perl source. This directory
should ordinarily be empty, but there may have been drift between
the standard version of perl and the one associated with these
units.

protos/
These are units modified to use the new Hasproto.U or Protochk.U
units to check for prototypes.

threads/
These are specific to threading perl.

typedefs/

These are standard units modified to use the modified Typedef.U
unit to check for typedefs. (The modified Typdef.U includes a
function to avoid unnecessary prompts if the typdef being searched
for exists.)

Where appropriate, I submitted these units for inclusion into the
regular dist distribution. However, since dist is no longer actively
maintained, and the alternative is for *me* to actively maintain it,
the units just
sit here.

Copyright Information:

Unless otherwise indicated, the files contained in this
distribution are:

Copyright (c) 1996-1998, Andy Dougherty

The following licensing terms apply to all files contained in
this distribution:

You may distribute the files contained in this distribution
under the terms of either

a) the "Artistic License" which comes with Perl, or

b) the "Artistic License" which comes with dist, or

c) the GNU General Public License as published by the Free
Software Foundation; either version 1, or (at your option) any
later version (see the file "Copying" that comes with the
Perl distribution).

Which one to use is your choice.

The units in the "modified" directory have been derived from units
associated with the metaconfig program of Raphael Manfredi's "dist"
distribution. These units list Raphael Manfredi as the Copyright holder.
dist is distributed under a modified version of the Perl Artistic License.
Clause 7 of this modified
license as contained in dist-3.0-pl60 provides:

7. You may reuse parts of this Package in your own programs, provided
that you explicitly state where you got them from, in the source code
(and, left to your courtesy, in the documentation), duplicating
all the associated copyright notices and disclaimers. Besides
your changes, if any, must be clearly marked as such. Parts reused

that way will no longer fall under this license if, and only if,
the name of your program(s) have no immediate connection with the
name of the Package itself or its associated programs. You may then
apply whatever restrictions you wish on the reused parts or choose
to place them in the Public Domain--this will apply only within the
context of your package.

In accordance with this clause, the versions of these units
contained here are made available under the same terms as the
rest of the units.

If you have any questions about the use of these units or about
the differences
between these units and the standard versions, please
feel free to ask.

Andy Dougherty doughera@lafayette.edu
Dept. of Physics
Lafayette College
Easton, PA 18042-1782

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/README
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fegetround: Inlibc
?MAKE: -pick add $@ %<
?S:d_fegetround:
?S: This variable conditionally defines HAS_FEGETROUND if fegetround() is
?S: available to get the floating point rounding mode.
?S:.
?C:HAS_FEGETROUND:
?C: This symbol, if defined, indicates that the fegetround routine is
?C: available to return the macro corresponding to the current rounding
?C: mode.
?C:.
?H:#$d_fegetround HAS_FEGETROUND /**/
?H:.
?LINT:set d_fegetround
: see if fegetround exists
set fegetround d_fegetround
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fegetround.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: getopt.C,v 3.0.1.1 1994/01/24 13:58:40 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* Original Author: unknown, got this off net.sources
*
* $Log: getopt.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:40  ram
* patch16: created
*
*/
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/lib/C/fake/getopt.C
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: afs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: afs.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:23:06  ram
?RCS: patch61: can now explicitly tell Configure whether AFS is running
?RCS:
?RCS: Revision 3.0.1.1  1993/08/24  12:24:43  ram
?RCS: patch3: created
?RCS:
?MAKE:afs afsroot: test
?MAKE: -pick add $@ %<
?S:afs:
```

```
?S: This variable is set to 'true' if AFS (Andrew File System) is used
?S: on the system, 'false' otherwise.  It is possible to override this
?S: with a hint value or command line option,
 but you'd better know
?S: what you are doing.
?S:.
?S:afsroot:
?S: This variable is by default set to '/afs'. In the unlikely case
?S: this is not the correct root, it is possible to override this with
?S: a hint value or command line option.  This will be used in subsequent
?S: tests for AFSness in the configure and test process.
?S:.
: allow them to override the AFS root
case "$afsroot" in
") afsroot=/afs ;;
*) afsroot=$afsroot ;;
esac

: is AFS running?
echo " "
case "$afs" in
$define|true) afs=true ;;
$undef|false) afs=false ;;
*) if $test -d $afsroot; then
  afs=true
 else
  afs=false
 fi
 ;;
esac
if $afs; then
 echo "AFS may be running... I'll be extra cautious then..." >&4
else
 echo "AFS does not seem to be running..." >&4
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/afs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:selectminbits: Compile cat rm_try Oldconfig d_select \
 i_time i_systime i_systimek i_sysselct selecttype d_socket \
 byteorder Myread Setvar run i_stdlib ptrsize
?MAKE: -pick add $@ %<
?S:selectminbits:
?S: This variable holds the minimum number of bits operated by select.
?S: That is, if you do select(n, ...), how many bits at least will be
?S: cleared in the masks if some activity is detected.  Usually this
?S: is either n or 32*ceil(n/32), especially many little-endians do
?S: the latter.  This is only useful if
 you have select(), naturally.
?S:.
?C:SELECT_MIN_BITS:
?C: This symbol holds the minimum number of bits operated by select.
?C: That is, if you do select(n, ...), how many bits at least will be
?C: cleared in the masks if some activity is detected.  Usually this
?C: is either n or 32*ceil(n/32), especially many little-endians do
?C: the latter.  This is only useful if you have select(), naturally.
?C:.
?H:#define SELECT_MIN_BITS $selectminbits /**/
?H:.
?T:bits
?T:safebits
?F:!try
: check for the select 'width'
case "$selectminbits" in
") safebits=`expr $ptrsize \* 8`
   case "$d_select" in
 $define)
  $cat <<EOM

Checking to see on how many bits at a time your select() operates...
EOM
  $cat >try.c <<EOCP
#include <sys/types.h>
#$i_time I_TIME
#$i_systime I_SYS_TIME
#$i_systimek I_SYS_TIME_KERNEL
#ifdef I_TIME
#   include <time.h>
#endif
#ifdef I_SYS_TIME
#   ifdef I_SYS_TIME_KERNEL
# define KERNEL
#   endif
```

```
#   include <sys/time.h>
#   ifdef I_SYS_TIME_KERNEL
# undef KERNEL
#   endif
#endif
#$i_sysselct
 I_SYS_SELECT
#ifdef I_SYS_SELECT
#include <sys/select.h>
#endif
#$d_socket HAS_SOCKET
#ifdef HAS_SOCKET
#   include <sys/socket.h> /* Might include <sys/bsdtypes.h> */
#endif
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
$selecttype b;
#define S sizeof(*(b))
#define MINBITS 64
#define NBYTES (S * 8 > MINBITS ? S : MINBITS/8)
#define NBITS  (NBYTES * 8)
int main() {
   char *s = (char *)malloc(NBYTES);
   struct timeval t;
   int i;
   FILE* fp;
   int fd;

   if (!s)
 exit(1);
   fclose(stdin);
   fp = fopen("try.c", "r");
   if (fp == 0)
     exit(2);
   fd = fileno(fp);
   if (fd < 0)
     exit(3);
   b = ($selecttype)s;
   for (i = 0; i < NBITS; i++)
 FD_SET(i, b);
   t.tv_sec  = 0;
   t.tv_usec = 0;
   select(fd + 1, b, 0, 0, &t);
   for (i = NBITS - 1; i > fd && FD_ISSET(i, b); i--);
   free(s);
```

```
   printf("%d\n", i + 1);
   return 0;
}
EOCP
  set try
  if eval $compile_ok; then
   selectminbits=`$run
 ./try 2>/dev/null`
   case "$selectminbits" in
   ") cat >&4 <<EOM
Cannot figure out on how many bits at a time your select() operates.
I'll play safe and guess it is $safebits bits.
EOM
    selectminbits=$safebits
    bits="$safebits bits"
    ;;
   1) bits="1 bit" ;;
   *) bits="$selectminbits bits" ;;
   esac
   echo "Your select() operates on $bits at a time." >&4
  else
   rp='What is the minimum number of bits your select() operates on?'
   case "$byteorder" in
   12345678) dflt=64 ;;
   1234)  dflt=32 ;;
   *)  dflt=1 ;;
   esac
   . ./myread
   val=$ans
   selectminbits="$val"
  fi
  $rm_try
  ;;
 *) : no select, so pick a harmless default
  selectminbits=$safebits
  ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/selectminbits.U
No license file was found, but licenses were detected in source scan.

?RCS:
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?RCS:

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:fpossize: Myread Typedef fpostype Compile longsize run i_stdlib
?MAKE: -pick add $@ %<
?S:fpossize:
?S: This variable contains the size of a fpostype in bytes.
?S:.
?C:Fpos_t_size:
?C: This symbol holds the size of a Fpos_t in bytes.
?C:.
?H:#define Fpos_t_size $fpossize  /* FPOS size */
?H:.
?T:yyy zzz
?F:!try
: Check size for Fpos_t
echo " "
case "$fpostype" in
*_t) zzz="$fpostype" ;;
*)   zzz="fpos_t" ;;
esac
echo "Checking the size of $zzz..." >&4
cat > try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef
 I_STDLIB
#include <stdlib.h>
#endif
int main() {
   printf("%d\n", (int)sizeof($fpostype));
   exit(0);
}
EOCP
set try
if eval $compile_ok; then
 yyy=`$run ./try`
 case "$yyy" in
 ") fpossize=4
  echo "(I can't execute the test program--guessing $fpossize.)" >&4
  ;;
 *) fpossize=$yyy
  echo "Your $zzz is $fpossize bytes long."
  ;;
```

```
 esac
else
 dflt="$longsize"
 echo " " >&4
 echo "(I can't compile the test program.  Guessing...)" >&4
 rp="What is the size of your file positions (in bytes)?"
 . ./myread
 fpossize="$ans"
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/fpossize.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:longdblinfbytes longdblnanbytes doubleinfbytes doublenanbytes: Inlibc \
 cat Compile run rm_try Setvar echo d_longdbl \
 doublekind doublesize longdblkind longdblsize
?MAKE: -pick add $@ %<
?S:longdblinfbytes:
?S: This variable contains comma-separated list of hexadecimal bytes
?S: for the long double precision infinity.
?S:.
?S:longdblnanbytes:
?S: This variable contains comma-separated list of hexadecimal bytes
?S: for the long double precision not-a-number.
?S:.
?S:doubleinfbytes:
?S: This variable contains comma-separated list of hexadecimal bytes
?S: for the double precision infinity.
?S:.
?S:doublenanbytes:
?S: This variable contains comma-separated list of hexadecimal bytes
?S: for
 the double precision not-a-number.
?S:.
?C:DOUBLEINFBYTES:
?C: This symbol, if defined, is a comma-separated list of
?C: hexadecimal bytes for the double precision infinity.
?C:.
?C:DOUBLENANBYTES:
```

```
?C: This symbol, if defined, is a comma-separated list of
?C: hexadecimal bytes (0xHH) for the double precision not-a-number.
?C:.
?C:LONGDBLINFBYTES:
?C: This symbol, if defined, is a comma-separated list of
?C: hexadecimal bytes for the long double precision infinity.
?C:.
?C:LONGDBLNANBYTES:
?C: This symbol, if defined, is a comma-separated list of
?C: hexadecimal bytes (0xHH) for the long double precision not-a-number.
?C:.
?H:#define DOUBLEINFBYTES  $doubleinfbytes  /**/
?H:#define DOUBLENANBYTES  $doublenanbytes  /**/
?H:#define LONGDBLINFBYTES $longdblinfbytes  /**/
?H:#define LONGDBLNANBYTES $longdblnanbytes  /**/
?H:.
?F:!try
: Check what kind of inf/nan your system has
$echo "Checking the kind of infinities and nans you have..." >&4
$echo "(The following tests may crash.  That's
 okay.)" >&4
$cat >try.c <<EOP
#define DOUBLESIZE $doublesize
#$d_longdbl HAS_LONG_DOUBLE
#ifdef HAS_LONG_DOUBLE
#define LONG_DOUBLESIZE $longdblsize
#define LONG_DOUBLEKIND $longdblkind
#endif
#include <math.h>
#include <string.h>
#include <stdio.h>
/* Note that whether the sign bit is on or off
* for NaN depends on the CPU/FPU, and possibly
* can be affected by the build toolchain.
*
* For example for older MIPS and HP-PA 2.0 the quiet NaN is:
* 0x7f, 0xf7, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff
* 0x7f, 0xf4, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00
* (respectively) as opposed to the more usual
* 0x7f, 0xf8, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00
*
* Pre-IEEE-754 floating point format do not even have inf/nan support
* at all.  They might have a "max" value (DBL_MAX), which may be deadly
* to even mention, causing immediate SIGFPE or equivalent: this is
* the case with VAX floating point, for example.
*/
static void bytes(void *v, unsigned int n) {
 unsigned char *p = (unsigned
```

```
 char *)v;
 int i;
 for (i = 0; i < n; i++) {
   printf("0x%02x%s", p[i], i < n - 1 ? ", " : "\n");
 }
}
int main(int argc, char *argv[]) {
  /* We cannot use 1.0/0.0 and 0.0/0.0 (with L suffixes for long double)
   * because some compilers are 'smart' and not only warn but refuse to
   * compile such 'illegal' values. */
  double dinf = exp(1e9);
  double dnan = sqrt(-1.0);
#ifdef HAS_LONG_DOUBLE
  long double ldinf = (long double)exp(1e9);
  long double ldnan = (long double)sqrt(-1.0);
# if LONG_DOUBLEKIND == 3 || LONG_DOUBLEKIND == 4
/* the 80-bit long doubles might have garbage in their excess bytes */
   memset((char *)&ldinf + 10, '\0', LONG_DOUBLESIZE - 10);
   memset((char *)&ldnan + 10, '\0', LONG_DOUBLESIZE - 10);
# endif
#endif
 if (argc == 2) {
   switch (argv[1][0]) {
   case '1': bytes(&dinf, sizeof(dinf)); break;
   case '2': bytes(&dnan, sizeof(dnan)); break;
#ifdef HAS_LONG_DOUBLE
   case '3': bytes(&ldinf, sizeof(ldinf)); break;
   case '4': bytes(&ldnan,
 sizeof(ldnan)); break;
#endif
   }
 }
 return 0;
}
EOP
set try
if eval $compile; then
   doubleinfbytes=`$run ./try 1`
   doublenanbytes=`$run ./try 2`
   case "$d_longdbl" in
   $define)
     longdblinfbytes=`$run ./try 3`
     longdblnanbytes=`$run ./try 4`
     ;;
   esac
else
   # Defaults in case the above test program failed.
   case "$doublekind" in
```

```
  1) # IEEE 754 32-bit LE
    doubleinfbytes='0x00, 0x00, 0xf0, 0x7f'
    doublenanbytes='0x00, 0x00, 0xf8, 0x7f'
    ;;
  2) # IEEE 754 32-bit BE
    doubleinfbytes='0x7f, 0xf0, 0x00, 0x00'
    doublenanbytes='0x7f, 0xf8, 0x00, 0x00'
    ;;
  3) # IEEE 754 64-bit LE
    doubleinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf0, 0x7f'
    doublenanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf8, 0x7f'
    ;;
  4) # IEEE 754 64-bit BE
    doubleinfbytes='0x7f, 0xf0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00'
    doublenanbytes='0x7f, 0xf8, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00'

;;
  5) # IEEE 754 128-bit LE
    doubleinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf0,
0x7f'
    doublenanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf8,
0x7f'
    ;;
  6) # IEEE 754 128-bit BE
    doubleinfbytes='0x7f, 0xf0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
    doublenanbytes='0x7f, 0xf8, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
    ;;
  7) # IEEE 754 64-bit mixed: 32-bit LEs in BE
    doubleinfbytes='0x00, 0x00, 0xf0, 0x7f, 0x00, 0x00, 0x00, 0x00'
    doublenanbytes='0x00, 0x00, 0xf8, 0x7f, 0x00, 0x00, 0x00, 0x00'
    ;;
  8) # IEEE 754 64-bit mixed: 32-bit BEs in LE
    doubleinfbytes='0x00, 0x00, 0x00, 0x00, 0x7f, 0xf0, 0x00, 0x00'
    doublenanbytes='0x00, 0x00, 0x00, 0x00, 0x7f, 0xf8, 0x00, 0x00'
    ;;
  9|10|11|12|13|14) # VAX/Cray/IBM floating
 point formats, no inf/nan.
    doubleinfbytes=$undef
    doublenanbytes=$undef
    ;;
  *) # No idea.
    doubleinfbytes=$undef
    doublenanbytes=$undef
    ;;
  esac
  case "$longdblkind" in
```

```
  1) # IEEE 754 128-bit LE
     longdblinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xff,
0x7f'
     longdblnanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x80, 0xff,
0x7f'
     ;;
  2) # IEEE 754 128-bit BE
     longdblinfbytes='0x7f, 0xff, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
     longdblnanbytes='0x7f, 0xff, 0x80, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
     ;;
  3) # IEEE 754 80-bit LE, 12 or 16 bytes (x86)
     case "$longdblsize" in
     12) # x86 32-bit (96 bits, or 4 x 32, or 12 x 8)
        longdblinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x80, 0xff, 0x7f,
 0x00, 0x00'
        longdblnanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xc0, 0xff, 0x7f, 0x00, 0x00'
        ;;
     16) # x86_64
        longdblinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x80, 0xff, 0x7f, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
        longdblnanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xc0, 0xff, 0x7f, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
        ;;
     *)  # No idea.
        longdblinfbytes=$undef
        longdblnanbytes=$undef
     ;;
     esac
     ;;
  4) # IEEE 754 80-bit BE, 12 or 16 bytes
     case "$longdblsize" in
     12) # 32-bit system
        longdblinfbytes='0x7f, 0xff, 0x80, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00'
        longdblnanbytes='0x7f, 0xff, 0xc0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00'
        ;;
     16) # 64-bit system
        longdblinfbytes='0x7f, 0xff, 0x80, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
         longdblnanbytes='0x7f, 0xff, 0xc0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
        ;;
     *)  # No idea.
        longdblinfbytes=$undef
        longdblnanbytes=$undef
     ;;
     esac
```

```
    ;;
  5) # 128-bit LE-LE "double double"
    longdblinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf0,
0x7f'
    longdblnanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf8,
0x7f'
    ;;
  6) # 128-bit BE-BE "double double"
    longdblinfbytes='0x7f, 0xf0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
    longdblnanbytes='0x7f, 0xf8, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
    ;;
  7) # 128-bit LE-BE "double double"
    longdblinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf0, 0x7f, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'

    longdblnanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf8, 0x7f, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
    ;;
  8) # 128-bit BE-LE "double double"
    longdblinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x7f, 0xf0, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
    longdblnanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x7f, 0xf8, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
    ;;
  9|10|11|12|13|14) # VAX/Cray/IBM floating point formats, no inf/nan.
    longdblinfbytes=$undef
    longdblnanbytes=$undef
    ;;
  *) # No idea.
    longdblinfbytes=$undef
    longdblnanbytes=$undef
    ;;
  esac
fi
# In case the program crashed the values are empty, turn them undef.
case "$doubleinfbytes" in
") doubleinfbytes=$undef ;;
esac
case "$doublenanbytes" in
") doublenanbytes=$undef ;;
esac
case "$longdblinfbytes" in
") longdblinfbytes=$undef ;;
esac
case "$longdblnanbytes" in
") longdblnanbytes=$undef ;;
```

```
esac
$rm_try
```

Found in path(s):
*
/opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/infnan.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:uselargefiles \
 ccflags_uselargefiles \
 ldflags_uselargefiles \
 libswanted_uselargefiles: \
 Myread Oldconfig Setvar test lseeksize fpossize \
 fpostype Compile echo n c cat lseektype rm_try run \
 use64bitint use64bitall i_stdlib
?MAKE: -pick add $@ %<
?Y:TOP
?S:uselargefiles:
?S: This variable conditionally defines the USE_LARGE_FILES symbol,
?S: and indicates that large file interfaces should be used when
?S: available.
?S:.
?S:ccflags_uselargefiles:
?S: This variable contains the compiler flags needed by large file builds
?S: and added to ccflags by hints files.
?S:.
?S:ldflags_uselargefiles:
?S: This variable contains the loader flags needed by large file builds
?S: and added to ldflags by
 hints files.
?S:.
?S:libswanted_uselargefiles:
?S: This variable contains the libraries needed by large file builds
?S: and added to ldflags by hints files.  It is a space separated list
?S: of the library names without the "lib" prefix or any suffix, just
?S: like libswanted..
?S:.
?C:USE_LARGE_FILES:
?C: This symbol, if defined, indicates that large file support
?C: should be used when available.
```

```
?C:.
?H:?%<:#ifndef USE_LARGE_FILES
?H:?%<:#$uselargefiles USE_LARGE_FILES  /**/
?H:?%<:#endif
?H:.
?INIT:ccflags_uselargefiles="
?INIT:ldflags_uselargefiles="
?INIT:libswanted_uselargefiles="
?T:yyy zzz
?F:!uselargefiles.cbu !try
?LINT:change lseeksize
?LINT:change fpossize
?LINT:extern uselfs
?LINT:use use64bitint
?LINT:use use64bitall
: Check for large file support
# Backward compatibility (uselfs is deprecated).
case "$uselfs" in
"$define"|true|[yY]*)
 cat <<EOM >&4

*** Configure -Duselfs is deprecated, using -Duselargefiles instead.
EOM
 uselargefiles="$define"
 ;;
esac

case "$lseeksize:$fpossize"
 in
8:8) cat <<EOM

You can have files larger than 2 gigabytes.
EOM
  val="$define" ;;
*)    case "$uselargefiles" in
  "$undef"|false|[nN]*) dflt='n' ;;
  *) dflt='y' ;;
  esac
  cat <<EOM

Perl can be built to understand large files (files larger than 2 gigabytes)
on some systems.  To do so, Configure can be run with -Duselargefiles.

If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
  rp='Try to understand large files, if available?'
  . ./myread
  case "$ans" in
```

```
  y|Y) val="$define" ;;
  *) val="$undef"  ;;
  esac
  ;;
esac
set uselargefiles
eval $setvar
: Look for a hint-file generated 'call-back-unit'.  If the
: user has specified that a large files perl is to be built,
: we may need to set or change some other defaults.
if $test -f uselargefiles.cbu; then
 echo "Your platform has some specific hints regarding large file builds, using them..."
 . ./uselargefiles.cbu
fi
case "$uselargefiles" in
"$define")
 if $test -f uselargefiles.cbu;
 then
  echo " "
  echo "Rechecking to see how big your file offsets are..." >&4
  $cat >try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
int main()
{
   printf("%d\n", (int)sizeof($lseektype));
   return(0);
}
EOCP
  set try
  if eval $compile_ok; then
   lseeksize=`$run ./try`
   $echo "Your file offsets are now $lseeksize bytes long."
  else
   dflt="$lseeksize"
   echo " "
   echo "(I can't seem to compile the test program.  Guessing...)"
   rp="What is the size of your file offsets (in bytes)?"
   . ./myread
   lseeksize="$ans"
  fi
  case "$fpostype" in
  *_t) zzz="$fpostype" ;;
  *)   zzz="fpos_t" ;;
  esac
  $echo $n "Rechecking the size of $zzz...$c" >&4
  $cat > try.c <<EOCP
#include <sys/types.h>
```

```
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() {
   printf("%d\n", (int)sizeof($fpostype));
   return(0);
}
EOCP
  set try
  if eval $compile_ok; then
   yyy=`$run ./try`
   dflt="$lseeksize"
   case "$yyy" in
   ") echo
 " "
    echo "(I can't execute the test program--guessing $fpossize.)" >&4
    ;;
   *) fpossize=$yyy
    echo " $fpossize bytes." >&4
    ;;
   esac
  else
   dflt="$fpossize"
   echo " "
   echo "(I can't compile the test program.  Guessing...)" >&4
   rp="What is the size of your file positions (in bytes)?"
   . ./myread
   fpossize="$ans"
  fi
  $rm_try
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/uselfs.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fmax: Inlibc
?MAKE: -pick add $@ %<
?S:d_fmax:
?S: This variable conditionally defines the HAS_FMAX symbol, which
```

```
?S: indicates to the C program that the fmax() routine is available.
?S:.
?C:HAS_FMAX:
?C: This symbol, if defined, indicates that the fmax routine is
?C: available to do the maximum function.
?C:.
?H:#$d_fmax HAS_FMAX  /**/
?H:.
?LINT:set d_fmax
: see if fmax exists
set fmax d_fmax
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fmax.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_getspnam: Inlibc
?MAKE: -pick add $@ %<
?S:d_getspnam:
?S: This variable conditionally defines HAS_GETSPNAM if getspnam() is
?S: available to retrieve SysV shadow password entries by name.
?S:.
?C:HAS_GETSPNAM:
?C: This symbol, if defined, indicates that the getspnam system call is
?C: available to retrieve SysV shadow password entries by name.
?C:.
?H:#$d_getspnam HAS_GETSPNAM  /**/
?H:.
?LINT:set d_getspnam
: see if getspnam exists
set getspnam d_getspnam
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_getspnam.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_locale.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_locale.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:48:23  ram
?RCS: patch61: created
?RCS:
?MAKE:i_locale: Inhdr
?MAKE: -pick add $@ %<
?S:i_locale:
?S: This variable conditionally defines the I_LOCALE symbol,
?S: and indicates whether a C program should include <locale.h>.
?S:.
?C:I_LOCALE:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <locale.h>.
?C:.
?H:#$i_locale I_LOCALE  /**/
?H:.
?LINT:set
 i_locale
: see if locale.h is available
set locale.h i_locale
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_locale.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2015 Jarkko Hietaniemi, H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:longdblmantbits doublemantbits nvmantbits: Inlibc cat Compile run \
```

```
 rm_try Setvar echo i_sunmath usequadmath \
 d_longdbl longdblkind nvsize doublesize longdblsize
?MAKE: -pick add $@ %<
?S:doublemantbits:
?S: This symbol, if defined, tells how many mantissa bits
?S: there are in double precision floating point format.
?S: Note that this is usually DBL_MANT_DIG minus one, since
?S: with the standard IEEE 754 formats DBL_MANT_DIG includes
?S: the implicit bit which doesn't really exist.
?S:.
?S:longdblmantbits:
?S: This symbol, if defined, tells how many mantissa bits
?S: there are in long double precision floating point format.
?S: Note that this can be LDBL_MANT_DIG minus one,
?S: since
 LDBL_MANT_DIG can include the IEEE 754 implicit bit.
?S: The common x86-style 80-bit long double does not have
?S: an implicit bit.
?S:.
?S:nvmantbits:
?S: This variable tells how many bits the mantissa of a Perl NV has,
?S: not including the possible implicit bit.
?S:.
?C:DOUBLEMANTBITS:
?C: This symbol, if defined, tells how many mantissa bits
?C: there are in double precision floating point format.
?C: Note that this is usually DBL_MANT_DIG minus one, since
?C: with the standard IEEE 754 formats DBL_MANT_DIG includes
?C: the implicit bit, which doesn't really exist.
?C:.
?C:LONGDBLMANTBITS:
?C: This symbol, if defined, tells how many mantissa bits
?C: there are in long double precision floating point format.
?C: Note that this can be LDBL_MANT_DIG minus one,
?C: since LDBL_MANT_DIG can include the IEEE 754 implicit bit.
?C: The common x86-style 80-bit long double does not have
?C: an implicit bit.
?C:.
?C:NVMANTBITS:
?C: This symbol, if defined, tells how many mantissa bits
?C: (not
 including implicit bit) there are in a Perl NV.
?C: This depends on which floating point type was chosen.
?C:.
?H:#define DOUBLEMANTBITS  $doublemantbits
?H:#define LONGDBLMANTBITS $longdblmantbits
?H:#define NVMANTBITS      $nvmantbits
?H:.
```

```
?F:!try
: Check the length of the double mantissa
$echo "Checking how many mantissa bits your doubles have..." >&4
$cat >try.c <<EOP
#$i_sunmath I_SUNMATH
#include <float.h>
#ifdef I_SUNMATH
# include <sunmath.h>
#endif
#ifdef DBL_MANT_DIG
# define BITS (DBL_MANT_DIG - 1) /* the implicit bit does not count */
#endif
#include <stdio.h>
int main(int argc, char *argv[]) {
#ifdef BITS
 printf("%d\n", BITS);
#endif
 return 0;
}
EOP
set try
if eval $compile; then
   doublemantbits=`$run ./try`
else
   doublemantbits="$undef"
fi
$rm_try

: Check the length of the longdouble mantissa
$echo "Checking how many mantissa bits your long doubles have..." >&4
$cat >try.c <<EOP
#$i_sunmath I_SUNMATH
#include <float.h>
#ifdef I_SUNMATH
# include <sunmath.h>
#endif
#$d_longdbl
 HAS_LONG_DOUBLE
#if defined(HAS_LONG_DOUBLE) && defined(LDBL_MANT_DIG)
# if ($longdblkind == 3) || ($longdblkind == 4) /* 80-bit extended precision */
/* This format has no implicit bit.  Beware, however, that for
* this format the bare LDBL_MANT_DIG is misleading for inf/nan:
* the top three bits are used for inf (100) / qnan (11x) / snan (101),
* and the top bit must have been one since 387, zero is plain invalid.
* For normal fp values, the LDBL_MANT_DIG is fine, though. */
#  define BITS LDBL_MANT_DIG
# elif ($longdblkind == 5 || $longdblkind == 6 || $longdblkind == 7 || $longdblkind == 8) /* double double */
/* LDBL_MANT_DIG of 106 (twice 53) would be logical, but for some
```

```
* reason e.g. Irix thinks 107.  But in any case, we want only
* the number of real bits, the implicit bits are of no interest.  */
#  define BITS 2 * (DBL_MANT_DIG - 1)
# else
#  define BITS (LDBL_MANT_DIG - 1) /* the implicit bit does not count */
# endif
#endif
#include <stdio.h>
int
 main(int argc, char *argv[]) {
#ifdef BITS
 printf("%d\n", BITS);
#endif
 return 0;
}
EOP
set try
if eval $compile; then
   longdblmantbits=`$run ./try`
else
   longdblmantbits="$undef"
fi
$rm_try

: Check the length of the NV mantissa
$echo "Checking how many mantissa bits your NVs have..." >&4
if test "X$usequadmath" = "X$define"; then
 nvmantbits=112 # 128-1-15
else
 if test "X$nvsize" = "X$doublesize"; then
   nvmantbits="$doublemantbits"
 else
    if test "X$nvsize" = "X$longdblsize"; then
      nvmantbits="$longdblmantbits"
    else
      nvmantbits="$undef"
    fi
 fi
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/mantbits.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: charsize.U,v 3.0.1.1 1994/10/29 16:07:13 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi

```
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: charsize.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:07:13  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:34  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:charsize charbits: cat rm_try Myread Compile run
?MAKE: -pick add $@ %<
?S:charsize:
?S: This variable contains the value of the CHARSIZE symbol, which
?S: indicates to the C program how many bytes there are in a character.
?S:.
?S:charbits:
?S: This
 variable contains the value of the CHARBITS symbol, which
?S: indicates to the C program how many bits there are in a character.
?S:.
?C:CHARSIZE:
?C: This symbol contains the size of a char, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?C:CHARBITS:
?C: This symbol contains the size of a char, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define CHARSIZE $charsize  /**/
?H:#define CHARBITS $charbits  /**/
?H:.
?F:!try
: length of character in bytes. Is always 1, otherwise it is not C
: This used to be a test using sizeof
charsize=1

: Check for the number of bits in a character
case "$charbits" in
") echo "Checking how long a character is (in bits)..." >&4
 $cat >try.c <<EOCP
#include <stdio.h>
int main ()
{
```

```
   int n;
   unsigned char c;
   for (c = 1, n = 0; c; c <<= 1, n++) ;
   printf ("%d\n", n);
   return (0);
   }
EOCP
 set try
 if eval $compile_ok; then
  dflt=`$run ./try`
 else
  dflt='8'
  echo "(I
 can't seem to compile the test program.  Guessing...)"
 fi
 ;;
*)
 dflt="$charbits"
 ;;
esac
rp="What is the length of a character (in bits)?"
. ./myread
charbits="$ans"
$rm_try
case "$charbits" in
8) ;;
*) cat >&4 << EOM
Your system has an unsigned character size of $charbits bits, which
is rather unusual (normally it is 8 bits).  Perl likely will not work
correctly on your system, with subtle bugs in various places.
EOM
 rp='Do you really want to continue?'
 dflt='n'
 . ./myread
 case "$ans" in
  [yY]) echo >&4 "Okay, continuing." ;;
  *) exit 1    ;;
 esac
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/charsize.U
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:
?RCS: Copyright (c) 2009 H.Merijn Brand

```
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getaddrinfo: Inlibc
?MAKE: -pick add $@ %<
?S:d_getaddrinfo:
?S: This variable conditionally defines the HAS_GETADDRINFO symbol,
?S: which indicates to the C program that the getaddrinfo() function
?S: is available.
?S:.
?C:HAS_GETADDRINFO:
?C: This symbol, if defined, indicates that the getaddrinfo() function
?C: is available for use.
?C:.
?H:#$d_getaddrinfo HAS_GETADDRINFO  /**/
?H:.
?LINT:set d_getaddrinfo
: see if getaddrinfo exists
set getaddrinfo d_getaddrinfo
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_getaddrinfo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: ebcdic.U,v 3.0.1.3 1994/05/06 15:11:49 doughera Exp $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Original author Jarkko Hietaniemi <jhi@iki.fi>
?RCS: Merged into dist by Andy Dougherty  July 13, 1998
?RCS:
?MAKE:ebcdic: Compile Setvar cat rm_try run
?MAKE: -pick add $@ %<
?S:ebcdic:
?S: This variable conditionally defines EBCDIC if this
?S: system uses EBCDIC encoding.
?S:.
?C:EBCDIC:
?C: This symbol, if defined, indicates that this system uses
?C: EBCDIC encoding.
?C:.
?H:#$ebcdic EBCDIC  /**/
```

```
?H:.
?F:!try
?LINT:set ebcdic
: Determine if this is an EBCDIC system
echo " "
echo "Determining whether or not we are on an EBCDIC system..." >&4
$cat >try.c <<'EOM'
int main()
{
 if ('M'==0xd4) return 0;
 return 1;
}
EOM

val=$undef
set try
if eval
 $compile_ok; then
 if $run ./try; then
  echo "You seem to speak EBCDIC." >&4
  val="$define"
 else
  echo "Nope, no EBCDIC, probably ASCII or some ISO Latin. Or UTF-8." >&4
 fi
else
 echo "I'm unable to compile the test program." >&4
 echo "I'll assume ASCII or some ISO Latin. Or UTF8." >&4
fi
$rm_try
set ebcdic
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/ebcdic/ebcdic.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setpwent.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
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?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_setpwent.U,v $
?RCS:
?MAKE:d_setpwent: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_setpwent:
?S: This variable conditionally defines the HAS_SETPWENT symbol, which
?S: indicates to the C program that the setpwent() routine is available
?S: for initializing sequential access to the passwd database.
?S:.
?C:HAS_SETPWENT:
?C: This symbol, if defined, indicates that the setpwent routine is
?C: available for initializing sequential access of the passwd database.
?C:.
?H:#$d_setpwent HAS_SETPWENT  /**/
?H:.
?LINT:set d_setpwent
: see if setpwent exists
set setpwent d_setpwent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_setpwent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethostent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_gethostent_r gethostent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_gethostent_r:
?S: This variable conditionally defines the HAS_GETHOSTENT_R symbol,
?S: which indicates to the C program that the gethostent_r()
?S: routine is available.
?S:.
?S:gethostent_r_proto:
?S: This variable encodes the prototype of gethostent_r.
?S: It is zero if d_gethostent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gethostent_r
?S: is defined.
?S:.
?C:HAS_GETHOSTENT_R:
?C: This symbol, if defined, indicates that the gethostent_r routine
?C: is
 available to gethostent re-entrantly.
?C:.
```

```
?C:GETHOSTENT_R_PROTO:
?C: This symbol encodes the prototype of gethostent_r.
?C: It is zero if d_gethostent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gethostent_r
?C: is defined.
?C:.
?H:#$d_gethostent_r HAS_GETHOSTENT_R /**/
?H:#define GETHOSTENT_R_PROTO $gethostent_r_proto /**/
?H:.
?T:try hdrs d_gethostent_r_proto
: see if gethostent_r exists
set gethostent_r d_gethostent_r
eval $inlibc
case "$d_gethostent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_gethostent_r_proto:$usethreads" in
 ":define") d_gethostent_r_proto=define
  set d_gethostent_r_proto gethostent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_gethostent_r_proto" in
 define)
 case "$gethostent_r_proto" in
 "|0) try='int gethostent_r(struct hostent*, char*, size_t, struct hostent**, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostent_r_proto=I_SBWRE ;;
 esac
 case "$gethostent_r_proto"
 in
 "|0) try='int gethostent_r(struct hostent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostent_r_proto=I_SBIE ;;
 esac
 case "$gethostent_r_proto" in
 "|0) try='struct hostent* gethostent_r(struct hostent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostent_r_proto=S_SBIE ;;
 esac
 case "$gethostent_r_proto" in
 "|0) try='struct hostent* gethostent_r(struct hostent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && gethostent_r_proto=S_SBI ;;
 esac
 case "$gethostent_r_proto" in
 "|0) try='int gethostent_r(struct hostent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && gethostent_r_proto=I_SBI ;;
 esac
 case "$gethostent_r_proto" in
 "|0) try='int gethostent_r(struct hostent*, struct hostent_data*);'
 ./protochk "$extern_C $try" $hdrs && gethostent_r_proto=I_SD ;;
```

```
 esac
 case "$gethostent_r_proto" in
 "|0) d_gethostent_r=undef
  gethostent_r_proto=0
  echo "Disabling gethostent_r, cannot determine prototype." >&4 ;;
 * ) case
 "$gethostent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) gethostent_r_proto="REENTRANT_PROTO_$gethostent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "gethostent_r has no prototype, not using it." >&4 ;;
  esac
  d_gethostent_r=undef
  gethostent_r_proto=0
  ;;
 esac
 ;;
*) gethostent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_gethostent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fork.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_fork.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:38  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_fork: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_fork:
?S: This variable conditionally defines the HAS_FORK symbol, which
?S: indicates to the C program that the fork() routine is available.
?S:.
?C:HAS_FORK :
?C: This symbol, if defined, indicates that the fork routine is
?C: available.
?C:.
?H:#$d_fork
 HAS_FORK  /**/
?H:.
?LINT:set d_fork
: see if fork exists
set fork d_fork
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_fork.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:fflushNULL fflushall: Compile cat rm rm_try test osname run to from \
 Oldconfig Myread Setvar echo targethost \
 d_sysconf i_unistd d_stdio_stream_array stdio_stream_array i_stdlib
?MAKE: -pick add $@ %<
?S:fflushNULL:
?S: This symbol, if defined, tells that fflush(NULL) correctly
?S: flushes all pending stdio output without side effects. In
?S: particular, on some platforms calling fflush(NULL) *still*
?S: corrupts STDIN if it is a pipe.
?S:.
?S:fflushall:
?S: This symbol, if defined, tells that to flush
?S: all
 pending stdio output one must loop through all
?S: the stdio file handles stored in an array and fflush them.
?S: Note that if fflushNULL is defined, fflushall will not
?S: even be probed for and will be left undefined.
```

```
?S:.
?C:FFLUSH_NULL:
?C: This symbol, if defined, tells that fflush(NULL) correctly
?C: flushes all pending stdio output without side effects. In
?C: particular, on some platforms calling fflush(NULL) *still*
?C: corrupts STDIN if it is a pipe.
?C:.
?C:FFLUSH_ALL:
?C: This symbol, if defined, tells that to flush
?C: all pending stdio output one must loop through all
?C: the stdio file handles stored in an array and fflush them.
?C: Note that if fflushNULL is defined, fflushall will not
?C: even be probed for and will be left undefined.
?C:.
?H:#$fflushNULL FFLUSH_NULL  /**/
?H:#$fflushall FFLUSH_ALL  /**/
?H:.
?T:output code
?F:!try.out !try !tryp
: Check how to flush
echo " "
$cat >&4 <<EOM
Checking how to flush all pending stdio output...
EOM
# I only know how to find
 the first 32 possibly open files on SunOS.
# See also hints/sunos_4_1.sh and util.c  --AD
case "$osname" in
sunos) $echo '#define PERL_FFLUSH_ALL_FOPEN_MAX 32' > try.c ;;
esac
$cat >>try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_unistd I_UNISTD
#ifdef I_UNISTD
# include <unistd.h>
#endif
#$d_sysconf HAS_SYSCONF
#$d_stdio_stream_array HAS_STDIO_STREAM_ARRAY
#ifdef HAS_STDIO_STREAM_ARRAY
# define STDIO_STREAM_ARRAY $stdio_stream_array
#endif
int main() {
 FILE* p;
 unlink("try.out");
```

```
 p = fopen("try.out", "w");
#ifdef TRY_FPUTC
 fputc('x', p);
#else
# ifdef TRY_FPRINTF
 fprintf(p, "x");
# endif
#endif
#ifdef TRY_FFLUSH_NULL
 fflush(NULL);
#endif
#ifdef TRY_FFLUSH_ALL
 {
   long open_max = -1;
# ifdef PERL_FFLUSH_ALL_FOPEN_MAX
   open_max = PERL_FFLUSH_ALL_FOPEN_MAX;
# else
#  if defined(HAS_SYSCONF) && defined(_SC_OPEN_MAX)
   open_max = sysconf(_SC_OPEN_MAX);
#  else
#   ifdef FOPEN_MAX
   open_max = FOPEN_MAX;
#   else
#
    ifdef OPEN_MAX
   open_max = OPEN_MAX;
#    else
#     ifdef _NFILE
   open_max = _NFILE;
#     endif
#    endif
#   endif
#  endif
# endif
# ifdef HAS_STDIO_STREAM_ARRAY
   if (open_max > 0) {
     long i;
     for (i = 0; i < open_max; i++)
     if (STDIO_STREAM_ARRAY[i]._file >= 0 &&
  STDIO_STREAM_ARRAY[i]._file < open_max &&
  STDIO_STREAM_ARRAY[i]._flag)
  fflush(&STDIO_STREAM_ARRAY[i]);
   }
 }
# endif
#endif
 _exit(42);
}
```

```
EOCP
: first we have to find out how _not_ to flush
$to try.c
if $test "X$fflushNULL" = X -o "X$fflushall" = X; then
   output=''
   set try -DTRY_FPUTC
   if eval $compile; then
     $run ./try 2>/dev/null
     code="$?"
     $from try.out
     if $test ! -s try.out -a "X$code" = X42; then
  output=-DTRY_FPUTC
     fi
   fi
   case "$output" in
   '')
     set try -DTRY_FPRINTF
     if eval $compile; then
      $run ./try 2>/dev/null
      code="$?"
      $from try.out
      if $test ! -s try.out -a "X$code" = X42; then
   output=-DTRY_FPRINTF

    fi
     fi
 ;;
   esac
fi
: check for fflush NULL behavior
case "$fflushNULL" in
'') set try -DTRY_FFLUSH_NULL $output
 if eval $compile; then
  $run ./try 2>/dev/null
  code="$?"
  $from try.out
  if $test -s try.out -a "X$code" = X42; then
   fflushNULL="`$cat try.out`"
  else
   if $test "X$code" != X42; then
    $cat >&4 <<EOM
(If this test failed, don't worry, we'll try another method shortly.)
EOM
   fi
  fi
 fi
 $rm -f core try.core core.try.*
 case "$fflushNULL" in
```

```
 x) $cat >&4 <<EOM
Your fflush(NULL) works okay for output streams.
Let's see if it clobbers input pipes...
EOM
# As of mid-March 2000 all versions of Solaris appear to have a stdio
# bug that improperly flushes the input end of pipes.  So we avoid the
# autoflush on fork/system/exec support for now. :-(
$cat >tryp.c <<EOCP
#include <stdio.h>
int
main(int argc, char **argv)
{
   char buf[1024];
   int i;
   char *bp = buf;
   while (1) {
 while ((i = getc(stdin)) != -1
        && (*bp++ = i) != '\n'

     && bp < &buf[1024])
 /* DO NOTHING */ ;
 *bp = '\0';
 fprintf(stdout, "%s", buf);
 fflush(NULL);
 if (i == -1)
     return 0;
 bp = buf;
   }
}
EOCP
  fflushNULL="$define"
  set tryp
  if eval $compile; then
      $rm -f tryp.out
      # Copy the .c file to the remote host ($to is an ssh-alike if targethost is set)
      if $test "X$targethost" != X; then
   $to tryp.c
   $to tryp
   $run "cat tryp.c | ./tryp " 2>/dev/null > tryp.out
      else
   $cat tryp.c | $run ./tryp   2>/dev/null > tryp.out
      fi
      if cmp tryp.c tryp.out >/dev/null 2>&1; then
         $cat >&4 <<EOM
fflush(NULL) seems to behave okay with input streams.
EOM
   fflushNULL="$define"
      else
```

```
   $cat >&4 <<EOM
Ouch, fflush(NULL) clobbers input pipes!  We will not use it.
EOM
   fflushNULL="$undef"
      fi
  fi
  $rm -f core tryp.c tryp.core core.tryp.*
  ;;
 ") $cat >&4 <<EOM
Your fflush(NULL) isn't working (contrary to ANSI C).
EOM
  fflushNULL="$undef"
  ;;
 *) $cat >&4 <<EOM
Cannot figure out whether
 your fflush(NULL) works or not.
I'm assuming it doesn't (contrary to ANSI C).
EOM
  fflushNULL="$undef"
  ;;
 esac
 ;;
$define|true|[yY]*)
 fflushNULL="$define"
 ;;
*)
 fflushNULL="$undef"
 ;;
esac
: check explicit looping only if NULL did not work, and if the pipe
: bug does not show up on an explicit flush too
case "$fflushNULL" in
"$undef")
 $cat >tryp.c <<EOCP
#include <stdio.h>
int
main(int argc, char **argv)
{
   char buf[1024];
   int i;
   char *bp = buf;
   while (1) {
 while ((i = getc(stdin)) != -1
        && (*bp++ = i) != '\n'
        && bp < &buf[1024])
 /* DO NOTHING */ ;
 *bp = '\0';
 fprintf(stdout, "%s", buf);
```

```
 fflush(stdin);
 if (i == -1)
     return 0;
 bp = buf;
   }
}
EOCP
 set tryp
 if eval $compile; then
     $rm -f tryp.out
     if $test "X$targethost" != X; then
  $to tryp.c
  $to tryp
  $run "cat tryp.c | ./tryp " 2>/dev/null > tryp.out
     else
  $cat tryp.c | $run ./tryp   2>/dev/null > tryp.out
     fi
     if cmp tryp.c tryp.out >/dev/null 2>&1;
 then
        $cat >&4 <<EOM
Good, at least fflush(stdin) seems to behave okay when stdin is a pipe.
EOM
  : now check for fflushall behaviour
  case "$fflushall" in
  ") set try -DTRY_FFLUSH_ALL $output
   if eval $compile; then
    $cat >&4 <<EOM
(Now testing the other method--but note that this also may fail.)
EOM
    $run ./try 2>/dev/null
    code=$?
    $from try.out
    if $test -s try.out -a "X$code" = X42; then
     fflushall="`$cat try.out`"
    fi
   fi
   $rm_try
   case "$fflushall" in
   x) $cat >&4 <<EOM
Whew. Flushing explicitly all the stdio streams works.
EOM
    fflushall="$define"
    ;;
   ") $cat >&4 <<EOM
Sigh. Flushing explicitly all the stdio streams doesn't work.
EOM
    fflushall="$undef"
    ;;
```

```
   *) $cat >&4 <<EOM
Cannot figure out whether flushing stdio streams explicitly works or not.
I'm assuming it doesn't.
EOM
    fflushall="$undef"
    ;;
   esac
   ;;
  "$define"|true|[yY]*)
   fflushall="$define"
   ;;
  *)
   fflushall="$undef"
   ;;
  esac

 else
  $cat >&4 <<EOM
All is futile.  Even fflush(stdin) clobbers input pipes!
EOM
  fflushall="$undef"
     fi
 else
     fflushall="$undef"
 fi
 $rm -f core tryp.c tryp.core core.tryp.*
 ;;
*) fflushall="$undef"
 ;;
esac

case "$fflushNULL$fflushall" in
undefundef)
 $cat <<EOM
OK, I give up.  I cannot figure out how to flush pending stdio output.
We won't be flushing handles at all before fork/exec/popen.
EOM
 ;;
esac
$rm_try tryp
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/fflushall.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_SHM_MAC.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_SHM_MAC.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:41  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_SHM_MAC d_SHM_PRM d_SHM_SEG d_SHM_IMMU: cat d_shm test rm +cc +ccflags
?MAKE: -pick add $@ %<
?S:d_SHM_MAC:
?S: Sometimes, the SHMLBA manifest needs sys/sysmacros.h, usually for
?S: the ctob() macro.
?S:.
?S:d_SHM_PRM:
?S: Sometimes, the SHMLBA manifest needs sys/param.h, usually for the
?S: NBPC constant.
?S:.
?S:d_SHM_SEG:
?S: Sometimes,
 the SHMLBA manifest needs sys/seg.h, usually for the
?S: SNUMSHFT constant.
?S:.
?S:d_SHM_IMMU:
?S: Sometimes, the SHMLBA manifest needs sys/immu.h, usually for the
?S: stob() macro.
?S:.
?C:SHMLBA_WANTS_SYSMACROS:
?C: This value tells us to include <sys/sysmacros.h> because SHMLBA
?C: needs something from there, probably the ctob() macro.
?C:.
?C:SHMLBA_WANTS_PARAM:
?C: This value tells us to include <sys/param.h> because SHMLBA needs
?C: something from there, probably the NBPC constant.
?C:.
?C:SHMLBA_WANTS_SEG:
?C: This value tells us to include <sys/seg.h> because SHMLBA needs
?C: something from there, probably the SNUMSHFT constant.
?C:.
?C:SHMLBA_WANTS_IMMU:
?C: This value tells us to include <sys/immu.h> because SHMLBA needs
?C: something from there, probably the stob() macro.  (tower_600 only?)
?C:.
?H:#$d_SHM_MAC SHMLBA_WANTS_SYSMACROS /* SHMLBA wants ctob()? */
```

```
?H:#$d_SHM_PRM SHMLBA_WANTS_PARAM /* SHMLBA wants NBPC? */
?H:#$d_SHM_SEG SHMLBA_WANTS_SEG /* SHMLBA wants
 SNUMSHFT? */
?H:#$d_SHM_IMMU SHMLBA_WANTS_IMMU /* SHMLBA wants stob()? */
?H:.
?T:flags D_sys_immu D_sys_seg D_sys_sysmacros D_sys_param
: check for SHMLBA braindamage
d_SHM_MAC="$undef"
d_SHM_PRM="$undef"
d_SHM_SEG="$undef"
d_SHM_IMMU="$undef"
if $test "$d_shm" = "$define" ; then
 echo " "
 $cat >&4 <<EOM
Checking to see if SHMLBA needs additional headers.
The headers I'll be checking are:

   sys/macros.h (for the ctob() macro)
   sys/param.h  (for NBPC)
   sys/seg.h    (for SNUMSHFT)
   sys/immu.h  (for the stob() macro)

EOM
 $cat >shm_mac.c <<'EOCP'
#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/shm.h>
#ifdef I_SYS_IMMU
#include <sys/immu.h>
#endif
#ifdef I_SYS_SYSMACROS
#include <sys/sysmacros.h>
#endif
#ifdef I_SYS_PARAM
#include <sys/param.h>
#endif
#ifdef I_SYS_SEG
#include <sys/seg.h>
#endif

int main() {
 int foo = SHMLBA ;
 }
EOCP
 flags='xxx'
 for D_sys_immu in " '-DI_SYS_IMMU'; do
 for D_sys_seg in " '-DI_SYS_SEG'; do
 for D_sys_sysmacros in " '-DI_SYS_SYSMACROS';
```

```
do
for D_sys_param in " '-DI_SYS_PARAM'; do
 case "$flags" in
 'xxx')
  case "$D_sys_immu$D_sys_param$D_sys_sysmacros$D_sys_seg" in
  ")
   echo "Trying it normally..."
   ;;
  *)
  echo "Trying $D_sys_immu $D_sys_param $D_sys_sysmacros $D_sys_seg"
  ;;
  esac
  if $cc $ccflags \
  $D_sys_immu $D_sys_param $D_sys_sysmacros $D_sys_seg \
  -o shm_mac shm_mac.c >/dev/null 2>&1 ; then
   set X $D_sys_immu $D_sys_param $D_sys_sysmacros $D_sys_seg
   shift
   flags="$*"
   echo "Succeeded with $flags"
  fi
  ;;
 esac
done
done
done
done
case "$flags" in
xxx)
 echo "I don't know how to keep SHMLBA happy.  Good luck!"
 ;;
esac
case "$flags" in
*I_SYS_PARAM*) d_SHM_PRM="$define";;
esac
case "$flags" in
*I_SYS_SYSMACROS*) d_SHM_MAC="$define";;
esac
case "$flags" in
*I_SYS_SEG*) d_SHM_SEG="$define";;
esac
case "$flags" in
*I_SYS_IMMU*) d_SHM_IMMU="$define";;
esac
fi
$rm -f shm_mac*
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/dist/U/d_SHM_MAC.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sig_name.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  16:21:25  ram
?RCS: patch61: brand new algorithm for sig_name and (new!) sig_num
?RCS:
?RCS: Revision 3.0.1.4  1995/07/25  14:14:54  ram
?RCS: patch56: added <asm/signal.h> lookup for linux
?RCS:
?RCS: Revision 3.0.1.3  1995/05/12  12:24:11  ram
?RCS: patch54: now looks for <linux/signal.h> too (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20  07:06:57  ram
?RCS: patch30: final echo was missing to close awk-printed string
?RCS:
?RCS: Revision 3.0.1.1
  1994/05/06  15:17:55  ram
?RCS: patch23: signal list now formatted to avoid scroll-ups (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:sig_name sig_name_init sig_num sig_num_init sig_count sig_size: \
 awk Signal Oldconfig rm
?MAKE: -pick add $@ %<
?S:sig_name:
?S: This variable holds the signal names, space separated. The leading
?S: SIG in signal name is removed.  A ZERO is prepended to the
?S: list.  This is currently not used.
?S:.
?S:sig_name_init:
?S: This variable holds the signal names, enclosed in double quotes and
?S: separated by commas, suitable for use in the SIG_NAME definition
?S: below.  A "ZERO" is prepended to the list, and the list is
?S: terminated with a plain 0.  The leading SIG in signal names
?S: is removed. See sig_num.
?S:.
```

```
?S:sig_num:
?S: This variable holds the signal numbers, space separated. A ZERO is
?S: prepended to the list (corresponding to the fake SIGZERO), and
?S: the list is terminated
 with a 0.  Those numbers correspond to
?S: the value of the signal listed in the same place within the
?S: sig_name list.
?S:.
?S:sig_num_init:
?S: This variable holds the signal numbers, enclosed in double quotes and
?S: separated by commas, suitable for use in the SIG_NUM definition
?S: below.  A "ZERO" is prepended to the list, and the list is
?S: terminated with a plain 0.
?S:.
?S:sig_count (sig_name.U):
?S:  This variable holds a number larger than the largest valid
?S:  signal number.  This is usually the same as the NSIG macro.
?S:.
?S:sig_size:
?S:  This variable contains the number of elements of the sig_name
?S:  and sig_num arrays, excluding the final NULL entry.
?S:.
?C:SIG_NAME:
?C: This symbol contains a list of signal names in order of
?C: signal number. This is intended
?C: to be used as a static array initialization, like this:
?C:  char *sig_name[] = { SIG_NAME };
?C: The signals in the list are separated with commas, and each signal
?C: is surrounded by double
 quotes. There is no leading SIG in the signal
?C: name, i.e. SIGQUIT is known as "QUIT".
?C: Gaps in the signal numbers (up to NSIG) are filled in with NUMnn,
?C: etc., where nn is the actual signal number (e.g. NUM37).
?C: The signal number for sig_name[i] is stored in sig_num[i].
?C: The last element is 0 to terminate the list with a NULL.  This
?C: corresponds to the 0 at the end of the sig_num list.
?C:.
?C:SIG_NUM:
?C: This symbol contains a list of signal numbers, in the same order as the
?C: SIG_NAME list. It is suitable for static array initialization, as in:
?C:  int sig_num[] = { SIG_NUM };
?C: The signals in the list are separated with commas, and the indices
?C: within that list and the SIG_NAME list match, so it's easy to compute
?C: the signal name from a number or vice versa at the price of a small
?C: dynamic linear lookup.
?C: Duplicates are allowed, but are moved to the end of the list.
?C: The signal number corresponding to sig_name[i] is sig_number[i].
?C: if (i
```

```
 < NSIG) then sig_number[i] == i.
?C: The last element is 0, corresponding to the 0 at the end of
?C: the sig_name list.
?C:.
?C:SIG_COUNT:
?C: This variable contains a number larger than the largest
?C: signal number.  This is usually the same as the NSIG macro.
?C:.
?C:SIG_SIZE:
?C: This variable contains the number of elements of the sig_name
?C: and sig_num arrays, excluding the final NULL entry.
?C:.
?H:#define SIG_NAME $sig_name_init  /**/
?H:#define SIG_NUM  $sig_num_init  /**/
?H:#define SIG_COUNT $sig_count   /**/
?H:#define SIG_SIZE $sig_size   /**/
?H:.
?T:i doinit
?F:!= !signal_cmd
?X: signal.cmd creates a file  signal.lst which has two columns:
?X: NAME  number, e.g.
?X:  HUP 1
?X: The list is sorted on signal number, with duplicates moved to
?X: the end..
: generate list of signal names
echo " "
case "$sig_name_init" in
") doinit=yes ;;
*)  case "$sig_num_init" in
   "|*,*) doinit=yes ;;
   esac ;;
esac
case "$doinit" in
yes)
 echo "Generating a list of signal names and
 numbers..." >&4
 . ./signal_cmd
 sig_count=`$awk '/^NSIG/ { printf "%d", $2 }' signal.lst`
 sig_name=`$awk 'BEGIN { printf "ZERO " }
   !/^NSIG/ { printf "%s ", $1 }' signal.lst`
 sig_num=`$awk  'BEGIN { printf "0 " }
   !/^NSIG/ { printf "%d ", $2 }' signal.lst`
 sig_name_init=`$awk 'BEGIN { printf "\"ZERO\", " }
        !/^NSIG/ { printf "\"%s\", ", $1 }
        END { printf "0\n" }' signal.lst`
 sig_num_init=`$awk  'BEGIN { printf "0, " }
        !/^NSIG/ { printf "%d, ", $2}
        END { printf "0\n"}' signal.lst`
```

```
 ;;
esac
echo "The following $sig_count signals are available:"
echo " "
echo $sig_name | $awk \
'BEGIN { linelen = 0 }
{
 for (i = 1; i <= NF; i++) {
  name = "SIG" $i " "
  linelen = linelen + length(name)
  if (linelen > 70) {
   printf "\n"
   linelen = length(name)
  }
  printf "%s", name
 }
 printf "\n"
}'
sig_size=`echo $sig_name | awk '{print NF}'`
$rm -f signal signal.c signal.awk signal.lst signal_cmd
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/sig_name.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_snprintf_l d_vsnprintf_l : Inlibc d_snprintf d_vsnprintf
?MAKE: -pick add $@ %<
?S:d_snprintf_l:
?S: This variable conditionally defines the HAS_SNPRINTF_L symbol, which
?S: indicates to the C program that the snprintf_l () library function
?S: is available.
?S:.
?S:d_vsnprintf_l:
?S: This variable conditionally defines the HAS_VSNPRINTF_L symbol, which
?S: indicates to the C program that the vsnprintf_l () library function
?S: is available.
?S:.
?C:HAS_SNPRINTF_L:
?C: This symbol, if defined, indicates that the snprintf_l () library
```

```
?C: function
 is available for use.
?C:.
?C:HAS_VSNPRINTF_L:
?C: This symbol, if defined, indicates that the vsnprintf_l () library
?C: function is available for use.
?C:.
?H:#$d_snprintf_l HAS_SNPRINTF_L /**/
?H:#$d_vsnprintf_l HAS_VSNPRINTF_L /**/
?H:.
: see if snprintf_l exists
set snprintf_l d_snprintf_l
eval $inlibc

: see if vsnprintf_l exists
set vsnprintf_l d_vsnprintf_l
eval $inlibc

case "$d_snprintf-$d_vsnprintf-$d_snprintf_l-$d_vsnprintf_l" in
"$define-$define-$define-$define")
   ;;
*) echo "(These require the basic snprintf and vsnprintf to also be available, which they aren't"
 d_snprintf_l="$undef"
 d_vsnprintf_l="$undef"
   ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_snprintf_l.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: cppstdin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cppstdin.U,v $
?RCS: Revision 3.0.1.4  1994/10/29  16:08:34  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.3  1994/01/24  14:05:38  ram
?RCS: patch16: comment for CPPLAST was missing
```

```
?RCS:
?RCS: Revision 3.0.1.2  1993/12/15  08:18:58  ram
?RCS: patch15: new variables cpprun and cpplast, guaranteed wrapper-free
?RCS: patch15: cppstdin now tries to use cc, even at the cost of a wrapper
?RCS:
?RCS: Revision 3.0.1.1
  1993/08/25  14:00:53  ram
?RCS: patch6: remove wrapper when not actually used
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:38  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:cppstdin cppminus cpprun cpplast: contains test \
 Myread Oldconfig Loc cpp +cc rm hint osname gccversion
?MAKE: -pick add $@ %<
?S:cppstdin:
?S: This variable contains the command which will invoke the C
?S: preprocessor on standard input and put the output to stdout.
?S: It is primarily used by other Configure units that ask about
?S: preprocessor symbols.
?S:.
?S:cppminus:
?S: This variable contains the second part of the string which will invoke
?S: the C preprocessor on the standard input and produce to standard
?S: output.  This variable will have the value "-" if cppstdin needs
?S: a minus to specify standard input, otherwise the value is "".
?S:.
?S:cpprun:
?S: This variable contains the command which will invoke a C preprocessor
?S: on standard input and put the output to stdout. It is guaranteed
 not
?S: to be a wrapper and may be a null string if no preprocessor can be
?S: made directly available. This preprocessor might be different from the
?S: one used by the C compiler. Don't forget to append cpplast after the
?S: preprocessor options.
?S:.
?S:cpplast:
?S: This variable has the same functionality as cppminus, only it applies
?S: to cpprun and not cppstdin.
?S:.
?C:CPPSTDIN:
?C: This symbol contains the first part of the string which will invoke
?C: the C preprocessor on the standard input and produce to standard
?C: output.  Typical value of "cc -E" or "/lib/cpp", but it can also
?C: call a wrapper. See CPPRUN.
?C:.
?C:CPPMINUS:
?C: This symbol contains the second part of the string which will invoke
```

```
?C: the C preprocessor on the standard input and produce to standard
?C: output.  This symbol will have the value "-" if CPPSTDIN needs a minus
?C: to specify standard input, otherwise the value is "".
?C:.
?C:CPPRUN:
?C: This symbol contains the string which will invoke
 a C preprocessor on
?C: the standard input and produce to standard output. It needs to end
?C: with CPPLAST, after all other preprocessor flags have been specified.
?C: The main difference with CPPSTDIN is that this program will never be a
?C: pointer to a shell wrapper, i.e. it will be empty if no preprocessor is
?C: available directly to the user. Note that it may well be different from
?C: the preprocessor used to compile the C program.
?C:.
?C:CPPLAST:
?C: This symbol is intended to be used along with CPPRUN in the same manner
?C: symbol CPPMINUS is used with CPPSTDIN. It contains either "-" or "".
?C:.
?H:#define CPPSTDIN "$cppstdin"
?H:#define CPPMINUS "$cppminus"
?H:#define CPPRUN "$cpprun"
?H:#define CPPLAST "$cpplast"
?H:.
?F:cppstdin !testcpp.out !testcpp.c
?T:wrapper x_cpp x_minus ok
?LINT:extern cppflags
: see how we invoke the C preprocessor
echo " "
echo "Now, how can we feed standard input to your C preprocessor..." >&4
cat <<'EOT' >testcpp.c
#define ABC abc
#define
 XYZ xyz
ABC.XYZ
EOT
cd ..
if test ! -f cppstdin; then
 if test "X$osname" = "Xaix" -a "X$gccversion" = X; then
  # AIX cc -E doesn't show the absolute headerfile
  # locations but we'll cheat by using the -M flag.
  echo 'cat >.$$.c; rm -f .$$.u; "'$cc'" ${1+"$@"} -M -c .$$.c 2>/dev/null; test -s .$$.u && awk "'"'$2 ~ /\.h$/ { print
"# 0 \"'$2'\" }"'" .$$.u; rm -f .$$.o .$$.u; "'$cc'" -E ${1+"$@"} .$$.c; rm .$$.c' > cppstdin
 else
  echo 'cat >.$$.c; "'$cc $cppflags'" -E ${1+"$@"} .$$.c; rm .$$.c' >cppstdin
 fi
else
 echo "Keeping your $hint cppstdin wrapper."
fi
```

```
chmod 755 cppstdin
wrapper=`pwd`/cppstdin
ok='false'
cd UU

?X:
?X: We'll run the cpp tests again if we don't have any valid C preprocessor
?X: yet or don't know how to proceed without a wrapper (in which case cpprun
?X: is empty and that's really annoying...)
?X:
if $test "X$cppstdin" != "X" && \
 $cppstdin $cppminus <testcpp.c >testcpp.out 2>&1 && \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1
then
 echo "You used
 to use $cppstdin $cppminus so we'll use that again."
 case "$cpprun" in
 ") echo "But let's see if we can live without a wrapper..." ;;
 *)
  if $cpprun $cpplast <testcpp.c >testcpp.out 2>&1 && \
   $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1
  then
   echo "(And we'll use $cpprun $cpplast to preprocess directly.)"
   ok='true'
  else
   echo "(However, $cpprun $cpplast does not work, let's see...)"
  fi
  ;;
 esac
else
 case "$cppstdin" in
 ") ;;
 *)
  echo "Good old $cppstdin $cppminus does not seem to be of any help..."
  ;;
 esac
fi

if $ok; then
 : nothing
elif echo 'Maybe """$cc"' -E" will work...'; \
 $cc -E <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Yup, it does."
 x_cpp="$cc $cppflags -E"
 x_minus=";
elif echo 'Nope...maybe """$cc"' -E -" will work...'; \
 $cc -E - <testcpp.c >testcpp.out 2>&1; \
```

```
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Yup, it does."
 x_cpp="$cc $cppflags -E"
 x_minus='-';
elif
 echo 'Nope...maybe """$cc"" -P" will work...'; \
 $cc -P <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Yipee, that works!"
 x_cpp="$cc $cppflags -P"
 x_minus="";
elif echo 'Nope...maybe """$cc"" -P -" will work...'; \
 $cc -P - <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "At long last!"
 x_cpp="$cc $cppflags -P"
 x_minus='-';
elif echo 'No such luck, maybe "$cpp" will work...'; \
 $cpp <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "It works!"
 x_cpp="$cpp $cppflags"
 x_minus="";
elif echo 'Nixed again...maybe "$cpp' -" will work...'; \
 $cpp - <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Hooray, it works!  I was beginning to wonder."
 x_cpp="$cpp $cppflags"
 x_minus='-';
elif echo 'Uh-uh.  Time to get fancy.  Trying a wrapper...'; \
 $wrapper <testcpp.c >testcpp.out 2>&1; \
 $contains
 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 x_cpp="$wrapper"
 x_minus="
 echo "Eureka!"
else
 dflt="
 rp="No dice.  I can't find a C preprocessor.  Name one:"
 . ./myread
 x_cpp="$ans"
 x_minus="
 $x_cpp <testcpp.c >testcpp.out 2>&1
 if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
  echo "OK, that will do." >&4
 else
echo "Sorry, I can't get that to work.  Go find one and rerun Configure." >&4
  exit 1
```

```
 fi
fi

case "$ok" in
false)
 cppstdin="$x_cpp"
 cppminus="$x_minus"
 cpprun="$x_cpp"
 cpplast="$x_minus"
?X:
?X: If /lib/cpp is used, try using a wrapper to increase our chances to have
?X: the C compiler and our $cppstdin agree on the same symbols... However,
?X: since cpprun is guaranteed not to be a wrapper, we must clear it if the
?X: only preprocessor we found was a wrapper, with all our luck...
?X:
 set X $x_cpp
 shift
 case "$1" in
 "$cpp")
  echo "Perhaps can we force $cc -E using a wrapper..."
  if $wrapper <testcpp.c >testcpp.out 2>&1; \
   $contains 'abc.*xyz'
 testcpp.out >/dev/null 2>&1
  then
   echo "Yup, we can."
   cppstdin="$wrapper"
   cppminus=";
  else
   echo "Nope, we'll have to live without it..."
  fi
  ;;
 esac
 case "$cpprun" in
 "$wrapper")
  cpprun="
  cpplast="
  ;;
 esac
 ;;
esac

case "$cppstdin" in
"$wrapper"|'cppstdin') ;;
*) $rm -f $wrapper;;
esac
$rm -f testcpp.c testcpp.out
```

Found in path(s):

* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/cppstdin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_crypt.U,v $
?RCS:
?RCS: Copyright (c) 2002 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_crypt: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_crypt:
?S: This variable conditionally defines the I_CRYPT symbol, and indicates
?S: whether a C program should include <crypt.h>.
?S:.
?C:I_CRYPT:
?C: This symbol, if defined, indicates that <crypt.h> exists and
?C: should be included.
?C:.
?H:#$i_crypt I_CRYPT  /**/
?H:.
?LINT:set i_crypt
: see if this is a crypt.h system
set crypt.h i_crypt
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_crypt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: nblock_io.U,v 3.0.1.2 1997/02/28 16:17:14 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: nblock_io.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:17:14  ram
?RCS: patch61: simplify here document for shells that can't handle them well
?RCS: patch61: force use of "startsh" at the head of the generated script
?RCS: patch61: added new files to the ?F: metalint hint
```

```
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  14:13:22  ram
?RCS: patch56: created
?RCS:
?X:
?X: Simplify here document for shells that can't handle them well.
?X: (Problem reported on FreeBSD;
 it's unclear if this helps.)  --AD
?X:
?MAKE:o_nonblock eagain rd_nodata d_eofnblk: cat rm_try Compile run \
 d_open3 h_sysfile h_fcntl signal_t hint Oldconfig Setvar \
 startsh i_unistd i_fcntl i_stdlib d_fork d_pipe d_alarm
?MAKE: -pick add $@ %<
?S:o_nonblock:
?S: This variable bears the symbol value to be used during open() or fcntl()
?S: to turn on non-blocking I/O for a file descriptor. If you wish to switch
?S: between blocking and non-blocking, you may try ioctl(FIOSNBIO) instead,
?S: but that is only supported by some devices.
?S:.
?S:eagain:
?S: This variable bears the symbolic errno code set by read() when no
?S: data is present on the file and non-blocking I/O was enabled (otherwise,
?S: read() blocks naturally).
?S:.
?S:rd_nodata:
?S: This variable holds the return code from read() when no data is
?S: present. It should be -1, but some systems return 0 when O_NDELAY is
?S: used, which is a shame because you cannot make the difference between
?S: no data and an EOF.. Sigh!
?S:.
?S:d_eofnblk:
?S: This
 variable conditionally defines EOF_NONBLOCK if EOF can be seen
?S: when reading from a non-blocking I/O source.
?S:.
?C:VAL_O_NONBLOCK:
?C: This symbol is to be used during open() or fcntl(F_SETFL) to turn on
?C: non-blocking I/O for the file descriptor. Note that there is no way
?C: back, i.e. you cannot turn it blocking again this way. If you wish to
?C: alternatively switch between blocking and non-blocking, use the
?C: ioctl(FIOSNBIO) call instead, but that is not supported by all devices.
?C:.
?C:VAL_EAGAIN:
?C: This symbol holds the errno error code set by read() when no data was
?C: present on the non-blocking file descriptor.
?C:.
?C:RD_NODATA:
?C: This symbol holds the return code from read() when no data is present
```

```
?C: on the non-blocking file descriptor. Be careful! If EOF_NONBLOCK is
?C: not defined, then you can't distinguish between no data and EOF by
?C: issuing a read(). You'll have to find another way to tell for sure!
?C:.
?C:EOF_NONBLOCK:
?C: This
 symbol, if defined, indicates to the C program that a read() on
?C: a non-blocking file descriptor will return 0 on EOF, and not the value
?C: held in RD_NODATA (-1 usually, in that case!).
?C:.
?H:#define VAL_O_NONBLOCK $o_nonblock
?H:#define VAL_EAGAIN $eagain
?H:#define RD_NODATA $rd_nodata
?H:#$d_eofnblk EOF_NONBLOCK
?H:.
?T:status
?F:!try.out !try.ret !try.err !try !mtry
?LINT:use d_open3
: check for non-blocking I/O stuff
case "$h_sysfile" in
true) echo "#include <sys/file.h>" > head.c;;
*)
	case "$h_fcntl" in
	true) echo "#include <fcntl.h>" > head.c;;
	*) echo "#include <sys/fcntl.h>" > head.c;;
	esac
	;;
esac
echo " "
echo "Figuring out the flag used by open() for non-blocking I/O..." >&4
case "$o_nonblock" in
")
 $cat head.c > try.c
 $cat >>try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_fcntl I_FCNTL
#ifdef I_FCNTL
#include <fcntl.h>
#endif
int main() {
#ifdef O_NONBLOCK
 printf("O_NONBLOCK\n");
 exit(0);
#endif
```

```
#ifdef
 O_NDELAY
 printf("O_NDELAY\n");
 exit(0);
#endif
?X: Stevens "Advanced Programming in the UNIX Environment" page 364 mentions
?X: the FNDELAY symbol, used in 4.3BSD (source: Paul Marquess).
#ifdef FNDELAY
 printf("FNDELAY\n");
 exit(0);
#endif
 exit(0);
}
EOCP
 set try
 if eval $compile_ok; then
  o_nonblock=`$run ./try`
  case "$o_nonblock" in
  ") echo "I can't figure it out, assuming O_NONBLOCK will do.";;
  *) echo "Seems like we can use $o_nonblock.";;
  esac
 else
  echo "(I can't compile the test program; pray O_NONBLOCK is right!)"
 fi
 ;;
*) echo "Using $hint value $o_nonblock.";;
esac
$rm_try

echo " "
echo "Let's see what value errno gets from read() on a $o_nonblock file..." >&4
case "$eagain" in
")
 case "$d_fork:$d_pipe:$d_alarm" in
 define:define:define)
 $cat head.c > try.c
 $cat >>try.c <<EOCP
#include <errno.h>
#include <sys/types.h>
#include <signal.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_fcntl
 I_FCNTL
#ifdef I_FCNTL
```

```
#include <fcntl.h>
#endif
#define MY_O_NONBLOCK $o_nonblock
#ifndef errno  /* XXX need better Configure test */
extern int errno;
#endif
#$i_unistd I_UNISTD
#ifdef I_UNISTD
#include <unistd.h>
#endif
#include <string.h>
$signal_t blech(int x) { exit(3); }
EOCP
 $cat >> try.c <<'EOCP'
int main()
{
 int pd[2];
 int pu[2];
 char buf[1];
 char string[100];
 int ret;

 ret = pipe(pd); /* Down: child -> parent */
 if (ret != 0)
  exit(3);
 ret = pipe(pu); /* Up: parent -> child */
 if (ret != 0)
  exit(3);
 if (0 != fork()) {
  close(pd[1]); /* Parent reads from pd[0] */
  close(pu[0]); /* Parent writes (blocking) to pu[1] */
#ifdef F_SETFL
  if (-1 == fcntl(pd[0], F_SETFL, MY_O_NONBLOCK))
   exit(1);
#else
  exit(4);
#endif
  signal(SIGALRM, blech);
  alarm(5);
  if ((ret = read(pd[0], buf, 1)) > 0) /* Nothing to read! */
   exit(2);
  sprintf(string, "%d\n", ret);
  ret = write(2, string, strlen(string));
  if (ret != strlen(string))
   exit(3);
  alarm(0);
#ifdef
```

```
 EAGAIN
  if (errno == EAGAIN) {
   printf("EAGAIN\n");
   goto ok;
  }
#endif
#ifdef EWOULDBLOCK
  if (errno == EWOULDBLOCK)
   printf("EWOULDBLOCK\n");
#endif
 ok:
  ret = write(pu[1], buf, 1); /* Unblocks child, tell it to close our pipe */
  if (ret != 1)
   exit(3);
  sleep(2);    /* Give it time to close our pipe */
  alarm(5);
  ret = read(pd[0], buf, 1); /* Should read EOF */
  alarm(0);
  sprintf(string, "%d\n", ret);
  ret = write(4, string, strlen(string));
  if (ret != strlen(string))
   exit(3);
  exit(0);
 }

 close(pd[0]);   /* We write to pd[1] */
 close(pu[1]);   /* We read from pu[0] */
 ret = read(pu[0], buf, 1); /* Wait for parent to signal us we may continue */
 if (ret != 1)
  exit(3);
 close(pd[1]);   /* Pipe pd is now fully closed! */
 exit(0);    /* Bye bye, thank you for playing! */
}
EOCP
 set try
 if eval $compile_ok; then
?X: Use script to avoid the possible 'alarm call' message
  echo "$startsh" >mtry
  echo "$run ./try >try.out 2>try.ret 4>try.err
 || exit 4" >>mtry
  chmod +x mtry
  $run ./mtry >/dev/null 2>&1
  case $? in
  0) eagain=`$cat try.out`;;
  1) echo "Could not perform non-blocking setting!";;
  2) echo "I did a successful read() for something that was not there!";;
  3) echo "Hmm... non-blocking I/O does not seem to be working!";;
  4) echo "Could not find F_SETFL!";;
```

```
 *) echo "Something terribly wrong happened during testing.";;
 esac
 rd_nodata=`$cat try.ret`
 echo "A read() system call with no data present returns $rd_nodata."
 case "$rd_nodata" in
 0|-1) ;;
 *)
  echo "(That's peculiar, fixing that to be -1.)"
  rd_nodata=-1
  ;;
 esac
 case "$eagain" in
 ")
  echo "Forcing errno EAGAIN on read() with no data available."
  eagain=EAGAIN
  ;;
 *)
  echo "Your read() sets errno to $eagain when no data is available."
  ;;
 esac
 status=`$cat try.err`
 case "$status" in
 0) echo "And it correctly returns 0 to signal EOF.";;
 -1) echo "But it also returns -1 to signal EOF, so be careful!";;
 *)
echo "However, your read() returns '$status' on EOF??";;
 esac
 val="$define"
 if test "$status" = "$rd_nodata"; then
  echo "WARNING: you can't distinguish between EOF and no data!"
  val="$undef"
 fi
else
 echo "I can't compile the test program--assuming errno EAGAIN will do."
 eagain=EAGAIN
fi
;;
*) echo "Can't figure out how to test this--assuming errno EAGAIN will do."
 eagain=EAGAIN
 val="$define"
 ;;
esac
set d_eofnblk
eval $setvar
;;
*)
echo "Using $hint value $eagain."
echo "Your read() returns $rd_nodata when no data is present."
```

```
 case "$d_eofnblk" in
 "$define") echo "And you can see EOF because read() returns 0.";;
 "$undef") echo "But you can't see EOF status from read() returned value.";;
 *)
?X: Should not happen, but if it does, assume the worst!
  echo "(Assuming you can't see EOF status from read anyway.)"
  d_eofnblk=$undef
  ;;
 esac
 ;;
esac
$rm_try head.c mtry
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/nblock_io.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2018-2018, H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_pipe2: Inlibc
?MAKE: -pick add $@ %<
?S:d_pipe2:
?S: This variable conditionally defines the HAS_PIPE2 symbol, which
?S: indicates to the C program that the pipe2() routine is available
?S: to create an inter-process channel.
?S:.
?C:HAS_PIPE2:
?C: This symbol, if defined, indicates that the pipe2 routine is
?C: available to create an inter-process channel.
?C:.
?H:#$d_pipe2 HAS_PIPE2  /**/
?H:.
?LINT:set d_pipe2
: see if pipe2 exists
set pipe2 d_pipe2
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_pipe2.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_shm.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_shm: test d_shmctl d_shmget d_shmat d_shmdt Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_shm:
?S: This variable conditionally defines the HAS_SHM symbol, which
?S: indicates that the entire shm*(2) library is present.
?S:.
?C:HAS_SHM:
?C: This symbol, if defined, indicates that the entire shm*(2) library is
?C: supported.
?C:.
?H:#$d_shm HAS_SHM  /**/
?H:.
?T:h_shm
?LINT:set d_shm
:
 see how much of the 'shm*(2)' library is present.
h_shm=true
echo " "
case "$d_shmctl$d_shmget$d_shmat$d_shmdt" in
*"$undef"*) h_shm=false;;
esac
: we could also check for sys/ipc.h ...
if $h_shm && $test `./findhdr sys/shm.h`; then
 echo "You have the full shm*(2) library." >&4
 val="$define"
else
 echo "You don't have the full shm*(2) library." >&4
 val="$undef"
fi
set d_shm
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_shm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sigaction.U,v 3.0.1.1 1997/02/28 15:44:29 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_sigaction.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:44:29  ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_sigaction: Csym Compile Setvar cat rm_try i_stdlib
?MAKE: -pick add $@ %<
?S:d_sigaction:
?S: This variable conditionally defines the HAS_SIGACTION symbol, which
?S: indicates that the Vr4 sigaction() routine is available.
?S:.
?C:HAS_SIGACTION:
?C: This symbol, if defined, indicates that Vr4's sigaction() routine
?C: is available.
?C:.
?H:#$d_sigaction
 HAS_SIGACTION /**/
?H:.
?T:val
?LINT:set d_sigaction
: see if we have sigaction
echo " "
if set sigaction val -f d_sigaction; eval $csym; $val; then
 echo 'sigaction() found.' >&4
?X:
?X: Solaris 2.5_x86 with SunWorks Pro C 3.0.1 doesn't have a complete
?X: sigaction structure if compiled with cc -Xc.  This compile test
?X: will fail then.  <doughera@lafcol.lafayette.edu>
?X:
 $cat > try.c <<EOP
#include <stdio.h>
#include <sys/types.h>
#include <signal.h>
```

```
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
{
   struct sigaction act, oact;
   act.sa_flags = 0;
   oact.sa_handler = 0;
   /* so that act and oact are used */
   exit(act.sa_flags == 0 &&  oact.sa_handler == 0);
}
EOP
 set try
 if eval $compile_ok; then
  val="$define"
 else
  echo "But you don't seem to have a usable struct sigaction." >&4
  val="$undef"
 fi
else
 echo 'sigaction NOT found.' >&4
 val="$undef"
fi
set d_sigaction; eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_sigaction.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getlogin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_getlogin.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:41  ram
?RCS: patch32: created by ADO
?RCS:
```

```
?MAKE:d_getlogin: Inlibc
?MAKE: -pick add $@ %<
?S:d_getlogin:
?S: This variable conditionally defines the HAS_GETLOGIN symbol, which
?S: indicates to the C program that the getlogin() routine is available
?S: to get the login name.
?S:.
?C:HAS_GETLOGIN :
?C: This symbol,
 if defined, indicates that the getlogin routine is
?C: available to get the login name.
?C:.
?H:#$d_getlogin HAS_GETLOGIN  /**/
?H:.
?LINT:set d_getlogin
: see if getlogin exists
set getlogin d_getlogin
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getlogin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_nice.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_nice.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:09:48  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_nice: Inlibc
?MAKE: -pick add $@ %<
?S:d_nice:
?S: This variable conditionally defines the HAS_NICE symbol, which
?S: indicates to the C program that the nice() routine is available.
?S:.
?C:HAS_NICE :
?C: This symbol, if defined, indicates that the nice routine is
```

```
?C: available.
?C:.
?H:#$d_nice
 HAS_NICE  /**/
?H:.
?LINT:set d_nice
: see if nice exists
set nice d_nice
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_nice.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: nametype.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: nametype.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:26:09  ram
?RCS: patch36: call ./usg and ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:36:48  ram
?RCS: patch32: fixed typo: /etc/password -> /etc/passwd (WED)
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:10:09  ram
?RCS: patch10: made questions more explicit for 'Configure -s' prompting (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:20  ram
?RCS: Baseline
 for dist 3.0 netwide release.
?RCS:
?MAKE:nametype d_passnames d_berknames d_usgnames: Myread Guess Oldconfig cat
?MAKE: -pick add $@ %<
?S:nametype:
?S: This variable indicates how full names are stored on this system.
?S: Values are bsd, usg, and other.
?S:.
?S:d_passnames:
?S: This variable conditionally defines the PASSNAMES symbol,
?S: which indicates to the C program that full names are stored in
```

```
?S: the /etc/passwd file.
?S:.
?S:d_berknames:
?S: This variable conditionally defines the PASSNAMES symbol,
?S: which indicates to the C program that full names are stored in
?S: the /etc/passwd file in Berkeley format.
?S:.
?S:d_usgnames:
?S: This variable conditionally defines the PASSNAMES symbol,
?S: which indicates to the C program that full names are stored in
?S: the /etc/passwd file in USG format.
?S:.
?C:PASSNAMES:
?C: This symbol, if defined, indicates that full names are stored in
?C: the /etc/passwd file.
?C:.
?C:BERKNAMES:
?C: This symbol, if defined, indicates that full
 names are stored in
?C: the /etc/passwd file in Berkeley format (name first thing, everything
?C: up to first comma, with & replaced by capitalized login id, yuck).
?C:.
?C:USGNAMES:
?C: This symbol, if defined, indicates that full names are stored in
?C: the /etc/passwd file in USG format (everything after - and before ( is
?C: the name).
?C:.
?H:#$d_passnames PASSNAMES /*  (undef to take name from ~/.fullname) */
?H:#$d_berknames BERKNAMES /* (that is, ":name,stuff:") */
?H:#$d_usgnames USGNAMES  /* (that is, ":stuff-name(stuff):") */
?H:.
: find out how to find out full name
case "$d_berknames" in
"$define")
 dflt=y;;
"$undef")
 dflt=n;;
*)
 if ./bsd; then
  dflt=y
 elif ./xenix; then
  dflt=y
 else
  dflt=n
 fi
 ;;
esac
$cat <<'EOM'
```

```
Does your /etc/passwd file keep full names in Berkeley/V7 format (name first
thing after ':' in GCOS field)?  In that case, a typical entry in the password
file looks like this:

   guest:**paswword**:10:100:Mister Guest User:/usr/users:/bin/sh

                         ^^^^^^^^^^^^^^^^^^
EOM
rp="Berkeley/V7 format for full name in /etc/passwd?"
. ./myread
case "$ans" in
y*) d_passnames="$define"
 d_berknames="$define"
 d_usgnames="$undef"
 nametype=bsd
 ;;
*)
 case "$d_usgnames" in
 "$define") dflt=y;;
 "$undef") dflt=n;;
 *)
  if ./usg; then
   dflt=y
  else
   dflt=n
  fi
  ;;
 esac
$cat <<'EOM'

Does your passwd file keep full names in USG format (name sandwiched between a
'-' and a '(')?  In that case, a typical entry in the password file looks like
this:

   guest:**paswword**:10:100:000-Mister Guest User(000):/usr/users:/bin/sh
                            ^^^^^^^^^^^^^^^^^^
EOM
 rp="USG format for full name in /etc/passwd?"
 . ./myread
 case "$ans" in
 n*) echo "Full name will be taken from ~/.fullname"
  d_passnames="$undef"
  d_berknames="$undef"
  d_usgnames="$undef"
  nametype=other
  ;;
 *)
```

```
  d_passnames="$define"
  d_berknames="$undef"
  d_usgnames="$define"
  nametype=usg
  ;;
 esac;;
esac
```

Found in path(s):
*
 /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/nametype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Extras.U,v$
?RCS:
?RCS: Copyright (c) 2001, Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:extras: Myread Oldconfig Setvar rm
?MAKE: -pick add $@ %<
?Y:TOP
?S:extras:
?S: This variable holds a list of extra modules to install.
?S:.
: See if we want extra modules installed
echo " "
case "$extras" in
") dflt='n';;
*) dflt='y';;
esac
cat <<EOM
Perl can be built with extra modules or bundles of modules which
will be fetched from the CPAN and installed alongside Perl.

Notice that you will need access to the CPAN; either via the Internet,
or a local copy, for example a CD-ROM or a local CPAN mirror.  (You will
be asked later to configure the CPAN.pm module which will in turn do
the installation of the rest of the extra modules or bundles.)

Notice also that if the modules require
 any external software such as
libraries and headers (the libz library and the zlib.h header for the
Compress::Zlib module, for example) you MUST have any such software
already installed, this configuration process will NOT install such
things for you.
```

```
If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp='Install any extra modules (y or n)?'
. ./myread
case "$ans" in
y|Y)
 cat <<EOM

Please list any extra modules or bundles to be installed from CPAN,
with spaces between the names.  The names can be in any format the
'install' command of CPAN.pm will understand.  (Answer 'none',
without the quotes, to install no extra modules or bundles.)
EOM
 rp='Extras?'
 dflt="$extras"
 . ./myread
 extras="$ans"
esac
case "$extras" in
"|'none')
 val=''
 $rm -f ../extras.lst
 ;;
*) echo "(Saving the list of extras for later...)"
 echo "$extras" > ../extras.lst
 val="'$extras'"
 ;;
esac
set extras
eval $setvar
echo " "
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/Extras.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
```

```
?MAKE:siteman1dir siteman1direxp installsiteman1dir: Getfile \
 Setprefixvar prefix siteprefix man1dir sed
?MAKE: -pick add $@ %<
?Y:TOP
?D:siteman1dir=''
?S:siteman1dir:
?S: This variable contains the name of the directory in which site-specific
?S: manual source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S: The standard distribution will put nothing in this directory.
?S: After perl
 has been installed, users may install their own local
?S: man1 pages in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:siteman1direxp=''
?S:siteman1direxp:
?S: This variable is the same as the siteman1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsiteman1dir=''
?S:installsiteman1dir:
?S: This variable is really the same as siteman1direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man1direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installsiteman1dir
?LINT:set siteman1dir
?LINT:set siteman1direxp
: determine where add-on manual pages go
case "$siteman1dir" in
'') dflt=`echo $man1dir | $sed "s#^$prefix#$siteprefix#"` ;;
*) dflt=$siteman1dir ;;
esac
case "$dflt" in
'|' ') dflt=none ;;
esac
fn=dn+~
rp='Pathname
 where the site-specific manual pages should be installed?'
. ./getfile
prefixvar=siteman1dir
. ./setprefixvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/siteman1dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_dlfcn.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_dlfcn.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:21:53  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:i_dlfcn: Inhdr
?MAKE: -pick add $@ %<
?S:i_dlfcn:
?S: This variable conditionally defines the I_DLFCN symbol, which
?S: indicates to the C program that <dlfcn.h> exists and should
?S: be included.
?S:.
?C:I_DLFCN:
?C: This symbol, if defined, indicates that <dlfcn.h> exists
 and should
?C: be included.
?C:.
?H:#$i_dlfcn I_DLFCN  /**/
?H:.
?LINT:set i_dlfcn
: see if dlfcn is available
set dlfcn.h i_dlfcn
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_dlfcn.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extract.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  14:58:52  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:51:46  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which can be doted in order to extract
?X: .SH files with variable substitutions.
?X:
?X: When running Configure from a remote directory ($src
 is not '.'),
?X: then the files will be created in that directory, so beware!
?X:
?MAKE:Extract: Mkdirp src
?MAKE: -pick add $@ %<
?F:./extract
?T:CONFIG SRC dir file
: script used to extract .SH files with variable substitutions
cat >extract <<EOS
CONFIG=true
SRC="$src"
EOS
cat >>extract <<'EOS'
echo "Doing variable substitutions on .SH files..."
if test -f "$SRC/MANIFEST"; then
 set x `awk '{print $1}' <$SRC/MANIFEST | grep '\.SH'`
else
 echo "(Looking for .SH files under the source directory.)"
 set x `(cd "$SRC"; find . -name "*.SH" -print)`
fi
shift
case $# in
0) set x `(cd "$SRC"; echo *.SH)`; shift;;
esac
if test ! -f "$SRC/$1"; then
 shift
```

```
fi
for file in $*; do
 case "$SRC" in
 ".")
  case "$file" in
  */*)
   dir=`expr X$file : 'X\(.*\)/'`
   file=`expr X$file : 'X.*/\(.*\)'`
   (cd $dir && . ./$file)
   ;;
  *)
   . ./$file
   ;;
  esac
  ;;
 *)
?X:
?X: When running Configure remotely ($src is not '.'), we cannot source
?X: the files directly, since that would wrongly cause
 the extraction
?X: where the source lie instead of withing the current directory. Therefore,
?X: we need to 'sh <file' then, which is okay since they will source the
?X: existing config.sh file. It's not possible to use:
?X:  ../src/Configure -S -O -Dsomething
?X: unfortunately since no new config.sh with the -Dsomething override
?X: will be created before running the .SH files. A minor buglet.
?X:
?X: Note that we must create the directory hierarchy ourselves if it does
?X: not exist already, and that is done through a shell emulation of the
?X: 'mkdir -p' command. We don't want to use the $installdir metaconfig
?X: symbol here since that would require too much to be configured for
?X: this simple extraction task that may happen quickly with 'Configure -S'.
?X:  -- RAM, 18/03/96
?X:
  case "$file" in
  */*)
   dir=`expr X$file : 'X\(.*\)/'`
   file=`expr X$file : 'X.*/\(.*\)'`
   ./mkdirp $dir
   sh <"$SRC/$dir/$file"
   ;;
  *)
   sh <"$SRC/$file"
   ;;
  esac
  ;;
 esac
done
```

```
if
 test -f "$SRC/config_h.SH"; then
 if test ! -f config.h; then
?X: oops, they left it out of MANIFEST, probably, so do it anyway.
  sh <"$SRC/config_h.SH"
 fi
fi
EOS
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Extract.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_bsdjmp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_bsdjmp.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:31:10  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:09:09  ram
?RCS: patch36: call ./usg explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_bsdjmp: Guess Setvar cat +cc libs rm
?MAKE: -pick add $@ %<
?S:d_bsdjmp:
?S: This variable conditionally defines USE_BSDJMP
 if BSD _setjmp and
?S: _longjmp routines are available to do non-local gotos without saving
?S: or restoring the signal mask flag.
?S:.
?C:USE_BSDJMP (BSDJMP):
?C: This symbol, if defined, indicates that the BSD _setjmp and _longjmp
?C: routines are available to do non-local gotos wihtout saving or restoring
?C: the signal mask flag.
?C:.
?H:#$d_bsdjmp USE_BSDJMP  /**/
```

```
?H:.
?F:!set
?LINT:set d_bsdjmp
: see if _setjmp and _longjmp exists
?X: We can't check for these symbols with Inlibc because of the leading "_"
echo " "
case "$d_bsdjmp" in
")
 $cat >set.c <<EOP
#include <setjmp.h>
jmp_buf env;
int set = 1;
int main()
{
 if (_setjmp(env))
  exit(set);
 set = 0;
 _longjmp(env, 1);
 exit(1);
}
EOP
 if $cc -o set set.c $libs >/dev/null 2>&1; then
  if ./set >/dev/null 2>&1; then
   echo "Good! You have BSD _setjmp and _longjmp routines." >&4
   val="$define"
  else
   $cat <<EOM
Uh-Oh! You have BSD _setjmp and _longjmp, but they do not work properly!!
EOM
   val="$undef"
  fi
 else
  if
 ./usg; then
   echo "You do not have _setjmp and _longjmp, but that's fine." >&4
  else
   cat <<EOM
It sounds strange for a BSD system to miss _setjmp and _longjmp, but that's ok.
EOM
  fi
  val="$undef"
 fi
 ;;
*) val="$d_bsdjmp"
 case "$d_bsdjmp" in
 $define) echo "Good! You have BSD _setjmp and _longjmp routines." >&4;;
 $undef) echo "You do not have _setjmp and _longjmp, but that's fine." >&4;;
 esac
```

```
 ;;
esac
set d_bsdjmp
eval $setvar
$rm -f set.c set
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_bsdjmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_syssecrt: Inhdr
?MAKE: -pick add $@ %<
?S:i_syssecrt:
?S: This variable conditionally defines the I_SYS_SECURITY symbol,
?S: and indicates whether a C program should include <sys/security.h>.
?S:.
?C:I_SYS_SECURITY:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/security.h>.
?C:.
?H:#$i_syssecrt   I_SYS_SECURITY /**/
?H:.
?LINT:set i_syssecrt
: see if sys/security.h is available
set sys/security.h i_syssecrt
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/acl/i_syssecrt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setreuid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setreuid.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setreuid d_setresuid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setreuid:
?S: This variable conditionally defines HAS_SETREUID if setreuid() is
?S: available to change the real and effective uid of the current
?S: process.
?S:.
?S:d_setresuid:
?S: This variable conditionally defines HAS_SETREUID if setresuid() is
?S: available to change
 the real, effective and saved uid of the current
?S: process.
?S:.
?C:HAS_SETREUID (SETREUID):
?C: This symbol, if defined, indicates that the setreuid routine is
?C: available to change the real and effective uid of the current
?C: process.
?C:.
?C:HAS_SETRESUID (SETRESUID):
?C: This symbol, if defined, indicates that the setresuid routine is
?C: available to change the real, effective and saved uid of the current
?C: process.
?C:.
?H:#$d_setreuid HAS_SETREUID  /**/
?H:#$d_setresuid HAS_SETRESUID  /**/
?H:.
?LINT:set d_setreuid d_setresuid
: see if setreuid exists
set setreuid d_setreuid
eval $inlibc
set setresuid d_setresuid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setreuid.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_getpgrp2.U 1 2006-08-24 12:32:52Z rmanfredi $

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getpgrp2.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getpgrp2: Inlibc
?MAKE: -pick add $@ %<
?S:d_getpgrp2:
?S: This variable conditionally defines the HAS_GETPGRP2 symbol, which
?S: indicates to the C program that the getpgrp2() (as in DG/UX) routine
?S: is available to get the current process group.
?S:.
?C:HAS_GETPGRP2 (GETPGRP2):
?C: This symbol, if defined, indicates that the
 getpgrp2() (as in DG/UX)
?C: routine is available to get the current process group.
?C:.
?H:#$d_getpgrp2 HAS_GETPGRP2  /**/
?H:.
?LINT:set d_getpgrp2
: see if getpgrp2 exists
set getpgrp2 d_getpgrp2
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getpgrp2.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_logb: Inlibc
?MAKE: -pick add $@ %<
?S:d_logb:
?S: This variable conditionally defines the HAS_LOGB symbol, which
?S: indicates to the C program that the logb() routine is available
?S: to extract the exponent of x.
?S:.
?C:HAS_LOGB:
```

```
?C: This symbol, if defined, indicates that the logb routine is
?C: available to do the logb function.
?C:.
?H:#$d_logb HAS_LOGB  /**/
?H:.
?LINT:set d_logb
: see if logb exists
set logb d_logb
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_logb.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_truncate.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_truncate.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_truncate: Inlibc
?MAKE: -pick add $@ %<
?S:d_truncate:
?S: This variable conditionally defines HAS_TRUNCATE if truncate() is
?S: available to truncate files.
?S:.
?C:HAS_TRUNCATE (TRUNCATE):
?C: This symbol, if defined, indicates that the truncate routine is
?C: available to truncate files.
?C:.
?H:#$d_truncate HAS_TRUNCATE /**/
?H:.
?LINT:set
 d_truncate
: see if truncate exists
set truncate d_truncate
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_truncate.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_systimes.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_systimes.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_systimes: Inhdr
?MAKE: -pick add $@ %<
?S:i_systimes:
?S: This variable conditionally defines the I_SYS_TIMES symbol, and indicates
?S: whether a C program should include <sys/times.h>.
?S:.
?C:I_SYS_TIMES (I_SYSTIMES):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/times.h>.
?C:.
?H:#$i_systimes I_SYS_TIMES  /**/
?H:.
?LINT:set
 i_systimes
: see if this is a sys/times.h system
set sys/times.h i_systimes
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_systimes.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: voidflags.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:27:58  ram
?RCS: patch61: don't prompt them if the void support is high enough for us
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:37:44  ram
?RCS: patch45: cosmetic change to avoid spurious blank lines when using -s
?RCS:
?RCS: Revision 3.0  1993/08/18  12:10:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:voidflags defvoidused: cat sed rm rm_try contains +cc +ccflags package \
 Oldconfig Myread
?MAKE: -pick add $@ %<
?S:voidflags:
?S: This
 variable contains the eventual value of the VOIDFLAGS symbol,
?S: which indicates how much support of the void type is given by this
?S: compiler.  See VOIDFLAGS for more info.
?S:.
?S:defvoidused:
?S: This variable contains the default value of the VOIDUSED symbol (15).
?S:.
?X: Exceptionally, we have to explicitly alias the symbol name for
?X: config_h.SH, otherwise the comment would not appear.
?C:VOIDFLAGS ~ %<:
?C: This symbol indicates how much support of the void type is given by this
?C: compiler.  What various bits mean:
?C:
?C:     1 = supports declaration of void
?C:     2 = supports arrays of pointers to functions returning void
?C:     4 = supports comparisons between pointers to void functions and
?C:      addresses of void functions
?C:     8 = suports declaration of generic void pointers
?C:
?C: The package designer should define VOIDUSED to indicate the requirements
?C: of the package.  This can be done either by #defining VOIDUSED before
?C: including
 config.h, or by defining defvoidused in Myinit.U.  If the
?C: latter approach is taken, only those flags will be tested.  If the
?C: level of void support necessary is not present, defines void to int.
?C:.
?H:?%<:#ifndef VOIDUSED
?H:?%<:#define VOIDUSED $defvoidused
?H:?%<:#endif
?H:?%<:#define VOIDFLAGS $voidflags
```

```
?H:?%<:#if (VOIDFLAGS & VOIDUSED) != VOIDUSED
?H:?%<:#define void int  /* is void to be avoided? */
?H:?%<:#define M_VOID   /* Xenix strikes again */
?H:?%<:#endif
?H:.
?W:%<:void
?F:!.out !try.c !flags
?LINT:usefile .out flags try.c
?INIT:: full support for void wanted by default
?INIT:defvoidused=15
?INIT:
?LINT:known void M_VOID VOIDUSED
: check for void type
echo " "
echo "Checking to see how well your C compiler groks the void type..." >&4
$cat >flags <<EOM

 Support flag bits are:
   1: basic void declarations.
   2: arrays of pointers to functions returning void.
   4: operations between pointers to and addresses of void functions.
   8: generic void pointers.

EOM
case
 "$voidflags" in
")
 $cat >try.c <<'EOCP'
#if TRY & 1
void sub() {
#else
sub() {
#endif
 extern void moo(); /* function returning void */
 void (*goo)();  /* ptr to func returning void */
#if TRY & 8
 void *hue;  /* generic ptr */
#endif
#if TRY & 2
 void (*foo[10])();
#endif

#if TRY & 4
 if(goo == moo) {
  exit(0);
 }
#endif
 exit(0);
```

```
}
int main() { sub(); }
EOCP
?X: This unit used to use cc -S in those tests to try to speed up things, but
?X: unfortunately, AIX 3.2 does not support this option.
 if $cc $ccflags -c -DTRY=$defvoidused try.c >.out 2>&1 ; then
  voidflags=$defvoidused
  echo "Good.  It appears to support void to the level $package wants."
  if $contains warning .out >/dev/null 2>&1; then
   echo "However, you might get some warnings that look like this:"
   $sed -e 's/^/ /' .out
  fi
 else
echo "Hmm, your compiler has some difficulty with void. Checking further..." >&4
  $cat >&4 flags
  $rm -f flags
  if $cc $ccflags -c -DTRY=1 try.c >/dev/null 2>&1; then
   echo
 "It supports 1..."
   if $cc $ccflags -c -DTRY=3 try.c >/dev/null 2>&1; then
    echo "It also supports 2..."
    if $cc $ccflags -c -DTRY=7 try.c >/dev/null 2>&1; then
     voidflags=7
     echo "And it supports 4 but not 8 definitely."
    else
     echo "It doesn't support 4..."
     if $cc $ccflags -c -DTRY=11 try.c >/dev/null 2>&1; then
      voidflags=11
      echo "But it supports 8."
     else
      voidflags=3
      echo "Neither does it support 8."
     fi
    fi
   else
    echo "It does not support 2..."
    if $cc $ccflags -c -DTRY=13 try.c >/dev/null 2>&1; then
     voidflags=13
     echo "But it supports 4 and 8."
    else
     if $cc $ccflags -c -DTRY=5 try.c >/dev/null 2>&1; then
      voidflags=5
      echo "And it supports 4 but has not heard about 8."
     else
      echo "However it supports 8 but not 4."
     fi
    fi
   fi
```

```
  else
   echo "There is no support at all for void."
   voidflags=0
  fi
 fi
esac
?X: Only prompt user if support does not match the
 level we want
case "$voidflags" in
"$defvoidused")
 echo "Good.  I already know it supports void to the level $package wants."
 ;;
*)
 dflt="$voidflags";
 test -f flags && $cat flags
 rp="Your void support flags add up to what?"
 . ./myread
 voidflags="$ans"
 ;;
esac
$rm_try flags
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/voidflags.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_umask.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_umask.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:14:50  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_umask: Inlibc
?MAKE: -pick add $@ %<
?S:d_umask:
?S: This variable conditionally defines the HAS_UMASK symbol, which
?S: indicates to the C program that the umask() routine is available.
```

```
?S: to set and get the value of the file creation mask.
?S:.
?C:HAS_UMASK :
?C: This
 symbol, if defined, indicates that the umask routine is
?C: available to set and get the value of the file creation mask.
?C:.
?H:#$d_umask HAS_UMASK  /**/
?H:.
?LINT:set d_umask
: see if umask exists
set umask d_umask
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_umask.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Oldsym.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Oldsym.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:06:58  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit follows the creation of the config.sh file. It adds some
?X: special symbols: defines from patchlevel.h file if any and PERL_CONFIG_SH,
?X: which is set to true. Then, we try to keep all the new symbols that
?X: may come from a hint
 file or a previous config.sh file.
?X:
?MAKE:Oldsym: Config_sh cat test hint src sed sort uniq perl_patchlevel
?MAKE: -pick add $@ %<
?T:PERL_CONFIG_SH PERL_PATCHLEVEL sym tmp
?F:!UU
: add special variables
```

```
$test -f $src/patchlevel.h && \
awk '/^#define[  ]+PERL_/ {printf "%s=%s\n",$2,$3}' $src/patchlevel.h >>config.sh
echo "PERL_PATCHLEVEL='$perl_patchlevel'" >>config.sh
echo "PERL_CONFIG_SH=true" >>config.sh

: propagate old symbols
if $test -f UU/config.sh; then
?X: Make sure each symbol is unique in oldconfig.sh
 <UU/config.sh $sort | $uniq >UU/oldconfig.sh
?X:
?X: All the symbols that appear twice come only from config.sh (hence the
?X: two config.sh in the command line). These symbols will be removed by
?X: the uniq -u command. The oldsyms file thus contains all the symbols
?X: that did not appear in the produced config.sh (Larry Wall).
?X:
?X: Do not touch the -u flag of uniq.  This means you too, Jarkko.
?X:
 $sed -n 's/^\([a-zA-Z_0-9]*\)=.*/\1/p' \
  config.sh config.sh UU/oldconfig.sh
 |\
  $sort | $uniq -u >UU/oldsyms
 set X `$cat UU/oldsyms`
 shift
 case $# in
 0) ;;
 *)
  $cat <<EOM
Hmm...You had some extra variables I don't know about...I'll try to keep 'em...
EOM
  echo ": Variables propagated from previous config.sh file." >>config.sh
  for sym in `$cat UU/oldsyms`; do
   echo "    Propagating $hint variable "'$'"$sym..."
   eval 'tmp="$'"${sym}"'"'
   echo "$tmp" | \
    sed -e "s/'/'\''\''/g" -e "s/^/$sym='/" -e "s/$/'/" >>config.sh
  done
  ;;
 esac
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Oldsym.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_volatile.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:08:49  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0.1.1  1993/09/09  11:49:51  ram
?RCS: patch9: volatile definition was swapped over with undef
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_volatile: cat +cc +ccflags rm_try Setvar
?MAKE: -pick add $@ %<
?S:d_volatile:
?S: This variable conditionally defines the HASVOLATILE symbol, which
?S: indicates
 to the C program that this C compiler knows about the
?S: volatile declaration.
?S:.
?C:HASVOLATILE ~ %<:
?C: This symbol, if defined, indicates that this C compiler knows about
?C: the volatile declaration.
?C:.
?H:?%<:#$d_volatile HASVOLATILE /**/
?H:?%<:#ifndef HASVOLATILE
?H:?%<:#define volatile
?H:?%<:#endif
?H:.
?W:%<:volatile
?LINT:set d_volatile
?LINT:known volatile
: check for volatile keyword
echo " "
echo 'Checking to see if your C compiler knows about "volatile"...' >&4
$cat >try.c <<'EOCP'
int main()
{
?X:
?X: The following seven lines added by Bill Campbell <billc@sierra.com>
?X: detect that MIPS compilers do not handle volatile in all situations.
?X:
 typedef struct _goo_struct goo_struct;
```

```
 goo_struct * volatile goo = ((goo_struct *)0);
 struct _goo_struct {
  long long_int;
  int reg_int;
  char char_var;
 };
 typedef unsigned short foo_t;
 char *volatile foo;
 volatile int bar;
 volatile foo_t blech;
 foo = foo;
}
EOCP
if $cc -c $ccflags try.c >/dev/null
 2>&1 ; then
 val="$define"
 echo "Yup, it does."
else
 val="$undef"
 echo "Nope, it doesn't."
fi
set d_volatile
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_volatile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Signal.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:20:01  ram
?RCS: patch61: created
?RCS:
?X:
?X: This unit produces three files:
?X:
?X: 1- A signal.c file, which, when compiled and run, produces an output like:
```

```
?X:
?X:   HUP 1
?X:   INT 2
?X:   QUIT 3
?X:   etc...
?X:
?X: 2- A signal.awk script to parse the output of signal.c, fill
?X: in gaps (up to NSIG) and move duplicates to the end.
?X:
?X: 3- A signal_cmd script to compile signal.c and run it
?X: through sort -n -k 2 | uniq | awk -f signal.awk.
?X:
 (we try also sort -n +1 since some old hosts don't grok sort -k)
?X: (This is called signal_cmd to avoid OS/2 confusion with
?X: signal.cmd vs. signal.
?X: The signal_cmd script also falls back on checking signals one at a
?X: time in case the signal.c program fails.  On at least one version of
?X: Linux 2.1.x, the header file #define'd SIGRTMAX to a symbol that
?X: is not defined by the compiler/linker. :-(.  Further, on that same
?X: version of Linux, the user had a defective C-shell that gave an
?X: incorrect list for kill -l, so the fall-back didn't work.
?X:
?X: This unit is then used by sig_name.U.
?X:
?MAKE:Signal: test tr rm awk cat grep startsh eunicefix sed sort uniq \
 Findhdr cppstdin +cppflags cppminus Compile trnl run
?MAKE: -pick add $@ %<
?X:all files declared as "public" since they're used from other units
?F:signal.c signal_cmd signal.lst signal signal.awk
?T: xx xxx xxxfiles
?LINT:use rm run
: Trace out the files included by signal.h, then look for SIGxxx
 names.
?X: Remove SIGARRAYSIZE used by HPUX.
?X: Remove SIGSTKSIZE used by Linux.
?X: Remove SIGSTKSZ used by Posix.
?X: Remove SIGTYP void lines used by OS2.
?X: Some cpps, like os390, dont give the file name anywhere
if [ "X$fieldn" = X ]; then
 : Just make some guesses.  We check them later.
 xxx='/usr/include/signal.h /usr/include/sys/signal.h'
else
 xxx=`echo '#include <signal.h>' |
 $cppstdin $cppminus $cppflags 2>/dev/null |
 $grep '^[  ]*#.*include' |
 $awk "{print \\$$fieldn}" | $sed 's!"!!g' |\
  $sed 's!\\\\\\\\!/!g' | $sort | $uniq`
fi
```

```
?X: Check this list of files to be sure we have parsed the cpp output ok.
?X: This will also avoid potentially non-existent files, such
?X: as ../foo/bar.h
xxxfiles="
?X: Add /dev/null in case the $xxx list is empty.
for xx in $xxx /dev/null ; do
 $test -f "$xx" && xxxfiles="$xxxfiles $xx"
done
?X: If we have found no files, at least try signal.h
case "$xxxfiles" in
") xxxfiles=`./findhdr signal.h` ;;
esac
xxx=`awk '
$1 ~ /^#define$/ &&
 $2 ~ /^SIG[A-Z0-9]*$/ && $2 !~ /SIGARRAYSIZE/ && $2 !~ /SIGSTKSIZE/ && $2 !~ /SIGSTKSZ/ && $3 !~
/void/ {
 print substr($2, 4, 20)
}
$1 == "#" && $2 ~ /^define$/ && $3 ~ /^SIG[A-Z0-9]*$/ && $3 !~ /SIGARRAYSIZE/ && $4 !~ /void/ {
 print substr($3, 4, 20)
}' $xxxfiles`
: Append some common names just in case the awk scan failed.
xxx="$xxx ABRT ALRM BUS CANCEL CHLD CLD CONT DIL EMT FPE"
xxx="$xxx FREEZE HUP ILL INT IO IOT KILL LOST LWP PHONE"
xxx="$xxx PIPE POLL PROF PWR QUIT RTMAX RTMIN SEGV STKFLT STOP"
xxx="$xxx SYS TERM THAW TRAP TSTP TTIN TTOU URG USR1 USR2"
xxx="$xxx USR3 USR4 VTALRM WAITING WINCH WIND WINDOW XCPU XFSZ"

: generate a few handy files for later
$cat > signal.c <<'EOCP'
#include <sys/types.h>
#include <signal.h>
#include <stdio.h>
int main() {

/* Strange style to avoid deeply-nested #if/#else/#endif */
#ifndef NSIG
#  ifdef _NSIG
#    define NSIG (_NSIG)
#  endif
#endif

#ifndef NSIG
#  ifdef SIGMAX
#    define NSIG (SIGMAX+1)
#  endif
#endif
```

```
#ifndef NSIG
#  ifdef SIG_MAX
#
    define NSIG (SIG_MAX+1)
#  endif
#endif

#ifndef NSIG
#  ifdef MAXSIG
#    define NSIG (MAXSIG+1)
#  endif
#endif

#ifndef NSIG
#  ifdef MAX_SIG
#    define NSIG (MAX_SIG+1)
#  endif
#endif

#ifndef NSIG
#  ifdef SIGARRAYSIZE
#    define NSIG (SIGARRAYSIZE+1) /* Not sure of the +1 */
#  endif
#endif

#ifndef NSIG
#  ifdef _sys_nsig
#    define NSIG (_sys_nsig) /* Solaris 2.5 */
#  endif
#endif

/* Default to some arbitrary number that's big enough to get most
  of the common signals.
*/
#ifndef NSIG
#    define NSIG 50
#endif

printf("NSIG %d\n", NSIG);

#ifndef JUST_NSIG

EOCP

echo $xxx | $tr ' ' $trnl | $sort | $uniq | $awk '
{
 printf "#ifdef SIG"; printf $1; printf "\n"
 printf "printf(\""; printf $1; printf " %%d\\n\",SIG";
```

```
 printf $1; printf ");\n"
 printf "#endif\n"
}
END {
 printf "#endif /* JUST_NSIG */\n";
 printf "exit(0);\n}\n";
}
' >>signal.c
$cat >signal.awk <<'EOP'
BEGIN { ndups = 0 }
$1 ~ /^NSIG$/ { nsig = $2 }
($1 !~ /^NSIG$/) && (NF == 2) {
   if ($2 >
 maxsig) { maxsig = $2 }
   if (sig_name[$2]) {
 dup_name[ndups] = $1
 dup_num[ndups] = $2
 ndups++
   }
   else {
 sig_name[$2] = $1
 sig_num[$2] = $2
   }
}
END {
   if (nsig == 0) {
    nsig = maxsig + 1
   }
   printf("NSIG %d\n", nsig);
   for (n = 1; n < nsig; n++) {
 if (sig_name[n]) {
     printf("%s %d\n", sig_name[n], sig_num[n])
 }
 else {
     printf("NUM%d %d\n", n, n)
 }
   }
   for (n = 0; n < ndups; n++) {
 printf("%s %d\n", dup_name[n], dup_num[n])
   }
}
EOP
$cat >signal_cmd <<EOS
$startsh
if $test -s signal.lst; then
   echo "Using your existing signal.lst file"
 exit 0
fi
```

```
xxx="$xxx"
EOS
?X: Avoid variable interpolation problems, especially with
?X: xxx, which contains newlines.
$cat >>signal_cmd <<'EOS'

set signal
if eval $compile_ok; then
 $run ./signal$_exe | ($sort -n -k 2 2>/dev/null || $sort -n +1) |\
  $uniq | $awk -f signal.awk >signal.lst
else
 echo "(I can't seem be able to compile the whole test program)" >&4
 echo "(I'll try it in little
 pieces.)" >&4
 set signal -DJUST_NSIG
 if eval $compile_ok; then
  $run ./signal$_exe > signal.nsg
  $cat signal.nsg
 else
  echo "I can't seem to figure out how many signals you have." >&4
  echo "Guessing 50." >&4
  echo 'NSIG 50' > signal.nsg
 fi
 : Now look at all the signal names, one at a time.
 for xx in `echo $xxx | $tr ' ' $trnl | $sort | $uniq`; do
  $cat > signal.c <<EOCP
#include <sys/types.h>
#include <signal.h>
#include <stdio.h>
int main() {
printf("$xx %d\n", SIG${xx});
return 0;
}
EOCP
  set signal
  if eval $compile; then
   echo "SIG${xx} found."
   $run ./signal$_exe  >> signal.ls1
  else
   echo "SIG${xx} NOT found."
  fi
 done
 if $test -s signal.ls1; then
  $cat signal.nsg signal.ls1 |
   $sort -n | $uniq | $awk -f signal.awk >signal.lst
 fi

fi
```

```
if $test -s signal.lst; then
 :
else
 echo "(AAK! I can't compile the test programs -- Guessing)" >&4
 echo 'kill -l' >signal
 set X `csh -f <signal`
 $rm -f signal
 shift
 case $# in
 0) set HUP INT QUIT ILL TRAP ABRT
 EMT FPE KILL BUS SEGV SYS PIPE ALRM TERM;;
 esac
 echo $@ | $tr ' ' $trnl | \
     $awk '{ printf "%s %d\n", $1, ++s; }
    END { printf "NSIG %d\n", ++s }' >signal.lst
fi
$rm -f signal.c signal$_exe signal$_o signal.nsg signal.ls1
EOS
chmod a+x signal_cmd
$eunicefix signal_cmd
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Signal.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_gethid.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:10  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_gethid: Inlibc
?MAKE: -pick add $@ %<
?S:d_gethid:
?S: This variable conditionally defines HAS_GETHOSTID if gethostid() is
?S: available to get the host id.
?S:.
?C:HAS_GETHOSTID (GETHOSTID):
?C: This symbol, if defined, indicates that the gethostid system call is
```

```
?C: available to get the host id.
?C:.
?H:#$d_gethid HAS_GETHOSTID  /**/
?H:.
?LINT:set
 d_gethid
: see if gethid exists
set gethostid d_gethid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_gethid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: usenm.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:26:40  ram
?RCS: patch61: don't use nm with the GNU C library
?RCS: patch61: added support for Linux shared libs
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:usenm runnm nm_opt nm_so_opt: cat test Myread Oldconfig grep \
 d_gnulibc nm egrep rsrc osname Guess
?MAKE: -pick add $@ %<
?S:usenm:
?S: This variable contains 'true' or 'false' depending whether the
?S: nm extraction is wanted
 or not.
?S:.
?S:runnm:
?S: This variable contains 'true' or 'false' depending whether the
?S: nm extraction should be performed or not, according to the value
?S: of usenm and the flags on the Configure command line.
?S:.
?S:nm_opt:
?S: This variable holds the options that may be necessary for nm.
```

```
?S:.
?S:nm_so_opt:
?S: This variable holds the options that may be necessary for nm
?S: to work on a shared library but that can not be used on an
?S: archive library.  Currently, this is only used by Linux, where
?S: nm --dynamic is *required* to get symbols from an ELF library which
?S: has been stripped, but nm --dynamic is *fatal* on an archive library.
?S: Maybe Linux should just always set usenm=false.
?S:.
: see if nm is to be used to determine whether a symbol is defined or not
?X: If there is enough inquiries, it might be worth to wait for the nm
?X: extraction. Otherwise, the C compilations might be a better deal.
?X:
?X: Don't bother if we're using GNU libc -- skimo
case "$usenm"
 in
")
 dflt="
 case "$d_gnulibc" in
 "$define")
  echo " "
  echo "$nm probably won't work on the GNU C Library." >&4
  dflt=n
  ;;
 esac
 case "$dflt" in
 ")
  if $test "$osname" = aix -a ! -f /lib/syscalls.exp; then
   echo " "
   echo "Whoops!  This is an AIX system without /lib/syscalls.exp!" >&4
   echo "'nm' won't be sufficient on this system." >&4
   dflt=n
  fi
  ;;
 esac
 case "$dflt" in
 ")
  if ./gnu; then
   echo " "
   echo "Hmm...  A GNU system without a GNU C Library?  Weird..." >&4
   dflt=n
  else
   dflt=`$egrep 'inlibc|csym' $rsrc/Configure | wc -l 2>/dev/null`
   if $test $dflt -gt 20; then
    dflt=y
   else
    dflt=n
   fi
```

```
  fi
  ;;
 esac
 ;;
*)
 case "$usenm" in
 true|$define) dflt=y;;
 *) dflt=n;;
 esac
 ;;
esac
$cat <<EOM

I can use $nm to extract the symbols from your C libraries. This
is a time consuming task which may generate huge output on the disk (up
to 3 megabytes) but that should make the symbols extraction faster. The
alternative is to skip the
 'nm' extraction part and to compile a small
test program instead to determine whether each symbol is present. If
you have a fast C compiler and/or if your 'nm' output cannot be parsed,
this may be the best solution.

EOM
rp='Shall I use nm to extract C symbols from the libraries?'
. ./myread
case "$ans" in
[Nn]*) usenm=false;;
*) usenm=true;;
esac

?X: Name extraction is to be run if 'nm' usage is wanted and if no -r flag
?X: was provided to configure (in which case we simply re-use the previous
?X: values).
runnm=$usenm
case "$reuseval" in
true) runnm=false;;
esac

: nm options which may be necessary
case "$nm_opt" in
") if $test -f /mach_boot; then
  nm_opt="  # Mach
 elif $test -d /usr/ccs/lib; then
  nm_opt='-p'  # Solaris (and SunOS?)
 elif $test -f /dgux; then
  nm_opt='-p'  # DG-UX
 elif $test -f /lib64/rld; then
  nm_opt='-p'  # 64-bit Irix
```

```
 else
  nm_opt=''
 fi;;
esac

?X: nm options which may be necessary for shared libraries but illegal
?X: for archive libraries.  Thank you,
 Linux.
case "$nm_so_opt" in
'') case "$osname" in
 *linux*)
  if $nm --help | $grep 'dynamic' > /dev/null 2>&1; then
   nm_so_opt='--dynamic'
  fi
  ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/usenm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_socks.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_socks: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_socks:
?S: This variable conditionally defines the I_SOCKS symbol, and indicates
?S: whether a C program should include <socks.h>.
?S:.
?C:I_SOCKS:
?C: This symbol, if defined, indicates that <socks.h> exists and
?C: should be included.
?C:.
?H:#$i_socks I_SOCKS  /**/
?H:.
?LINT:set i_socks
: see if this is a socks.h system
set socks.h i_socks
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_socks.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: locdist.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: locdist.U,v $
?RCS: Revision 3.0.1.1  1994/05/06  15:09:20  ram
?RCS: patch23: added support for multi-state regions (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:06  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:locdist orgdist citydist statedist multistatedist cntrydist contdist: \
 test newslibexp cat Myread Oldconfig
?MAKE: -pick add $@ %<
?S:locdist:
?S: This variable contains the eventual value of the LOCDIST symbol,
?S: which
 is the local organization's distribution name for news.
?S:.
?S:orgdist:
?S: This variable contains the eventual value of the ORGDIST symbol,
?S: which is the organization's distribution name for news.
?S:.
?S:citydist:
?S: This variable contains the eventual value of the CITYDIST symbol,
?S: which is the city's distribution name for news.
?S:.
?S:statedist:
?S: This variable contains the eventual value of the STATEDIST symbol,
?S: which is the state's or province's distribution name for news.
?S:.
?S:multistatedist:
?S: This variable contains the eventual value of the MULTISTATEDIST symbol,
?S: which is the news distribution code for multi-state region.
?S:.
?S:cntrydist:
?S: This variable contains the eventual value of the CNTRYDIST symbol,
```

```
?S: which is the country's distribution name for news.
?S:.
?S:contdist:
?S: This variable contains the eventual value of the CONTDIST symbol,
?S: which is the continent's distribution name for news.
?S:.
?C:LOCDIST:
?C: This symbol contains the
 distribution name for the news system that
?C: restricts article distribution to the local organization.
?C:.
?C:ORGDIST:
?C: This symbol contains the distribution name for the news system that
?C: restricts article distribution to the organization.
?C:.
?C:CITYDIST:
?C: This symbol contains the distribution name for the news system that
?C: restricts article distribution to the city.
?C:.
?C:STATEDIST:
?C: This symbol contains the distribution name for the news system that
?C: restricts article distribution to the state or province.
?C:.
?C:MULTISTATEDIST:
?C: This symbol contains the distribution name for the news system that
?C: restricts article distribution to a multi-state region.
?C:.
?C:CNTRYDIST:
?C: This symbol contains the distribution name for the news system that
?C: restricts article distribution to the country.
?C:.
?C:CONTDIST:
?C: This symbol contains the distribution name for the news system that
?C: restricts article distribution to the continent.
?C:.
?H:#define LOCDIST
 "$locdist"  /**/
?H:#define ORGDIST "$orgdist"  /**/
?H:#define CITYDIST "$citydist"  /**/
?H:#define MULTISTATEDIST "$multistatedist" /**/
?H:#define STATEDIST "$statedist"  /**/
?H:#define CNTRYDIST "$cntrydist"  /**/
?H:#define CONTDIST "$contdist"  /**/
?H:.
: get the local distributions
$cat <<'EOH'

Distribution groups are the things you use on the Distribution line to limit
```

```
where an article will go to.  You are likely to be a member of several
distribution groups, such as organization, city, state, province, country,
continent, etc.  For example, Los Angeles has the distribution code "la",
New Jersey has the code "nj", and Europe has the code "eunet".

The categories you will be asked are:

local organization (Could be just one machine or a cluster or an office)
organization  att, dec, kgb, ...
city   la, ny, mosc, ...
state/province  ca, nj, bc, ...
multi-state region pnw, ne, ...
country   usa, can, rok, whatever
continent  na (North America), asia, etc.

EOH
if $test
 -f $newslibexp/distributions; then
 case "$silent" in
 true) ;;
 *) dflt='Hit return to continue'
  rp=''
  . ./myread
  ;;
 esac
 echo "Here is your distributions file:" >&4
 echo " " >&4
 $cat >&4 $newslibexp/distributions
 echo " " >&4
fi
echo "Use 'none' for any distributions you don't have."
echo " "
case "$locdist" in
'') dflt="none";;
*)  dflt="$locdist";;
esac
rp="What is the distribution code for your local organization?"
. ./myread
locdist="$ans"
case "$orgdist" in
'') dflt="none";;
*)  dflt="$orgdist";;
esac
rp="What is the distribution code for your organization?"
. ./myread
orgdist="$ans"
case "$citydist" in
'') dflt="none";;
```

```
*)  dflt="$citydist";;
esac
rp="What is the distribution code for your city?"
. ./myread
citydist="$ans"
case "$statedist" in
") dflt="none";;
*)  dflt="$statedist";;
esac
rp="What is the distribution code for your state/province?"
. ./myread
statedist="$ans"
case "$multistatedist" in
") dflt="none";;
*) dflt="$multistatedist";;
esac
rp="What is the
 distribution code for your multi-state region?"
. ./myread
multistatedist="$ans"
case "$cntrydist" in
") dflt="none";;
*)  dflt="$cntrydist";;
esac
rp="What is the distribution code for your country?"
. ./myread
cntrydist="$ans"
case "$contdist" in
") dflt="none";;
*)  dflt="$contdist";;
esac
rp="What is the distribution code for your continent?"
. ./myread
contdist="$ans"
$cat <<'EOM'

If you have any other distribution groups you will need to edit Pnews
and newsetup to add them.
EOM
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/locdist.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getnetprotos.U,v $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_getnetprotos : Hasproto i_netdb
?MAKE: -pick add $@ %<
?S:d_getnetprotos:
?S: This variable conditionally defines the HAS_GETNET_PROTOS symbol,
?S: which indicates to the C program that <netdb.h> supplies
?S: prototypes for the various getnet*() functions.
?S: See also netdbtype.U for probing for various netdb types.
?S:.
?C:HAS_GETNET_PROTOS:
?C: This symbol, if defined, indicates that <netdb.h> includes
?C: prototypes for getnetent(), getnetbyname(), and
?C: getnetbyaddr().  Otherwise,
 it is up to the program to guess
?C: them.  See netdbtype.U for probing for various Netdb_xxx_t types.
?C:.
?H:#$d_getnetprotos HAS_GETNET_PROTOS /**/
?H:.
?LINT:set d_getnetprotos
: see if prototypes for various getnetxxx netdb.h functions are available
echo " "
set d_getnetprotos getnetent $i_netdb netdb.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/d_getnetprotos.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setregid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setregid.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:12  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?MAKE:d_setregid d_setresgid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setregid:
?S: This variable conditionally defines HAS_SETREGID if setregid() is
?S: available to change the real and effective gid of the current
?S: process.
?S:.
?S:d_setresgid:
?S: This variable conditionally defines HAS_SETRESGID if setresgid() is
?S: available to change
 the real, effective and saved gid of the current
?S: process.
?S:.
?C:HAS_SETREGID (SETREGID):
?C: This symbol, if defined, indicates that the setregid routine is
?C: available to change the real and effective gid of the current
?C: process.
?C:.
?C:HAS_SETRESGID (SETRESGID):
?C: This symbol, if defined, indicates that the setresgid routine is
?C: available to change the real, effective and saved gid of the current
?C: process.
?C:.
?H:#$d_setregid HAS_SETREGID  /**/
?H:#$d_setresgid HAS_SETRESGID  /**/
?H:.
?LINT: set d_setregid d_setresgid
: see if setregid exists
set setregid d_setregid
eval $inlibc
set setresgid d_setresgid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setregid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libs.U,v 3.0.1.6 1997/02/28 16:09:11 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
?RCS: $Log: libs.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  16:09:11  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.5  1995/07/25  14:12:05  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  16:24:22  ram
?RCS: patch36: removed old broken thislib/thatlib processing (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:05:44  ram
?RCS: patch30: code cleanup with if/elif by ADO and RAM
?RCS: patch30:
 undone patch23 for libswanted default setting
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:08:45  ram
?RCS: patch23: now includes ordered default libswanted variable (ADO)
?RCS: patch23: major cleanup for library lookups (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:02:31  ram
?RCS: patch6: added default for libs
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libs ignore_versioned_solibs libsfound libsfiles libsdirs libspath: \
 test cat Myread Oldconfig Loc libpth package xlibpth so _a \
 usesocks sed uselongdouble usequadmath
?MAKE: -pick add $@ %<
?S:libs:
?S: This variable holds the additional libraries we want to use.
?S: It is up to the Makefile to deal with it.  The list can be empty.
?S:.
?S:libsfound:
?S: This variable holds the full pathnames of the libraries
?S: we found and accepted.
?S:.
?S:libsfiles:
?S: This variable holds the filenames aka basenames of the libraries
?S: we found and accepted.
?S:.
?S:libsdirs:
?S: This
 variable holds the directory names aka dirnames of the libraries
?S: we found and accepted, duplicates are removed.
?S:.
?S:libspath:
```

```
?S: This variable holds the directory names probed for libraries.
?S:.
?S:ignore_versioned_solibs:
?S: This variable should be non-empty if non-versioned shared
?S: libraries (libfoo.so.x.y) are to be ignored (because they
?S: cannot be linked against).
?S:.
?T:xxx yyy thislib thisdir libswanted libstyle
?D:libs="
?X:
?X: This order is chosen so that libraries  -lndir, -ldir, -lucb, -lbsd,
?X: -lBSD, -lPW, and -lx only get used if there are unresolved
?X: routines at link time.  Usually, these are backwards compatibility
?X: libraries, and may not be as reliable as the standard c library.
?X:
?X: The -lsocket -linet -lnsl order has been reported to be necessary
?X: for at least one SVR4 implementation.
?X: -lc must proceed -lucb or -lbsd for most Solaris applications.
?X: -lc_s proceeds -lc so we pick up the shared library version,
 if
?X: it is available.
?X:
?X: The ordering of c, posix, and cposix is a guess and almost
?X: certainly wrong on about half of all systems.
?X:
?X: Set proper libswanted in your private Myinit.U if needed.
?X:
?X:: default ordered library list
?X:libswanted='net socket inet bind nsl nm sdbm gdbm ndbm dbm malloc dl'
?X:libswanted="$libswanted dld sun m c_s c posix cposix ndir dir ucb"
?X:libswanted="$libswanted bsd BSD PW x"
?X:
?INIT:: default library list
?INIT:libswanted="
?INIT:: some systems want to use only the non-versioned libso:s
?INIT:ignore_versioned_solibs="
?LINT:extern usecbacktrace
?LINT:extern libscheck
?LINT:extern p
?LINT:use uselongdouble
: Looking for optional libraries
echo " "
echo "Checking for optional libraries..." >&4
case "$libs" in
' '|") dflt=";;
*) dflt="$libs";;
esac
case "$libswanted" in
```

```
") libswanted='c_s';;
esac
?X: libsocks has nasty naming scheme.
?X: This does not work if somebody wants SOCKS 4.
case "$usesocks" in
"$define") libswanted="$libswanted
 socks5 socks5_sh" ;;
esac
case "$usecbacktrace" in
"$define") libswanted="$libswanted bfd" ;;
esac
case "$usequadmath" in
"$define") libswanted="$libswanted quadmath" ;;
esac
libsfound="
libsfiles="
libsdirs="
libspath="
for thisdir in $libpth $xlibpth; do
 test -d $thisdir && libspath="$libspath $thisdir"
done
for thislib in $libswanted; do
 for thisdir in $libspath; do
    xxx="
    if $test ! -f "$xxx" -a "X$ignore_versioned_solibs" = "X"; then
  xxx=`ls $thisdir/lib$thislib.$so.[0-9] 2>/dev/null|sed -n '$p'`
        $test -f "$xxx" && eval $libscheck
  $test -f "$xxx" && libstyle=shared
  xxx=`ls $thisdir/lib$thislib.[0-9].$so 2>/dev/null|sed -n '$p'`
        $test -f "$xxx" && eval $libscheck
  $test -f "$xxx" && libstyle=shared
    fi
    if test ! -f "$xxx"; then
  xxx=$thisdir/lib$thislib.$so
        $test -f "$xxx" && eval $libscheck
  $test -f "$xxx" && libstyle=shared
    fi
    if test ! -f "$xxx"; then
  xxx=$thisdir/lib$thislib$_a
        $test -f "$xxx"
 && eval $libscheck
  $test -f "$xxx" && libstyle=static
    fi
    if test ! -f "$xxx"; then
  xxx=$thisdir/$thislib$_a
        $test -f "$xxx" && eval $libscheck
  $test -f "$xxx" && libstyle=static
    fi
```

```
    if test ! -f "$xxx"; then
  xxx=$thisdir/lib${thislib}_s$_a
        $test -f "$xxx" && eval $libscheck
  $test -f "$xxx" && libstyle=static
  $test -f "$xxx" && thislib=${thislib}_s
    fi
    if test ! -f "$xxx"; then
  xxx=$thisdir/Slib$thislib$_a
        $test -f "$xxx" && eval $libscheck
  $test -f "$xxx" && libstyle=static
    fi
    if $test -f "$xxx"; then
  case "$libstyle" in
  shared) echo "Found -l$thislib (shared)." ;;
  static) echo "Found -l$thislib." ;;
  *)      echo "Found -l$thislib ($libstyle)." ;;
  esac
  case " $dflt " in
  *"-l$thislib "*);;
  *) dflt="$dflt -l$thislib"
                libsfound="$libsfound $xxx"
                yyy=`basename $xxx`
                libsfiles="$libsfiles $yyy"
                yyy=`echo $xxx|$sed -e
 "s%/$yyy\\$%%"`
                case " $libsdirs " in
                *" $yyy "*) ;;
                *) libsdirs="$libsdirs $yyy" ;;
                esac
    ;;
  esac
  break
    fi
 done
 if $test ! -f "$xxx"; then
    echo "No -l$thislib."
 fi
done
set X $dflt
shift
dflt="$*"
case "$libs" in
") dflt="$dflt";;
*) dflt="$libs";;
esac
case "$dflt" in
' '|") dflt='none';;
esac
```

```
$cat <<EOM

In order to compile $package on your machine, a number of libraries
are usually needed.  Include any other special libraries here as well.
Say "none" for none.  The default list is almost always right.
EOM

echo " "
rp="What libraries to use?"
. ./myread
case "$ans" in
none) libs=' ';;
*) libs="$ans";;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/libs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: bin.U,v 3.1 1999/07/09 18:20:13 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: bin.U,v $
?RCS: Revision 3.1  1999/07/09 18:20:13  doughera
?RCS: Updated for installprefix
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:15:32  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:32:40  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:05:28  ram
?RCS: patch32: now uses installation prefix
?RCS:
?RCS:
 Revision 3.0.1.1  1993/09/13  15:56:51  ram
?RCS: patch10: made prompting more explicit (WAD)
?RCS:
```

```
?RCS: Revision 3.0  1993/08/18  12:05:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:bin binexp installbin userelocatableinc initialinstalllocation: \
 Myread Prefixit Getfile Setvar Setprefixvar Oldconfig \
 test prefix prefixexp
?MAKE: -pick add $@ %<
?Y:TOP
?D:bin=''
?S:bin:
?S: This variable holds the name of the directory in which the user wants
?S: to put publicly executable images for the package in question.  It
?S: is most often a local directory such as /usr/local/bin. Programs using
?S: this variable must be prepared to deal with ~name substitution.
?S:.
?D:binexp=''
?S:binexp:
?S: This is the same as the bin variable, but is filename expanded at
?S: configuration time, for use in your makefiles.
?S:.
?D:installbin=''
?S:installbin:
?S: This variable is the same as binexp unless AFS is running in which case
?S: the user is explicitly prompted for it. This variable
 should always
?S: be used in your makefiles for maximum portability.
?S:.
?D:userelocatableinc=''
?S:userelocatableinc:
?S: This variable is set to true to indicate that perl should relocate
?S: @INC entries at runtime based on the path to the perl binary.
?S: Any @INC paths starting "../" are relocated relative to the directory
?S: containing the perl binary, and a logical cleanup of the path is then
?S: made around the join point (removing "dir/../" pairs)
?S:.
?S:initialinstalllocation:
?S: When userelocatableinc is true, this variable holds the location
?S: that make install should copy the perl binary to, with all the
?S: run-time relocatable paths calculated from this at install time.
?S: When used, it is initialized to the original value of binexp, and
?S: then binexp is set to '../', as the other binaries are found
?S: relative to the perl binary.
?S:.
?C:BIN:
?C: This symbol holds the path of the bin directory where the package will
?C: be installed. Program must be
 prepared to deal with ~name substitution.
?C:.
```

```
?C:BIN_EXP:
?C: This symbol is the filename expanded version of the BIN symbol, for
?C: programs that do not want to deal with that at run-time.
?C:.
?C:PERL_RELOCATABLE_INC:
?C: This symbol, if defined, indicates that we'd like to relocate entries
?C: in @INC at run time based on the location of the perl binary.
?C:.
?H:#define BIN "$bin" /**/
?H:#define BIN_EXP "$binexp" /**/
?H:#define PERL_RELOCATABLE_INC "$userelocatableinc"  /**/
?H:.
?D:bin='/usr/local/bin'
?LINT:change prefix
?LINT:change prefixexp
?LINT:change prefixvar
?LINT:change installprefixexp
?LINT:set userelocatableinc
: determine where public executables go
echo " "
set dflt bin bin
eval $prefixit
fn=d~
rp='Pathname where the public executables will reside?'
. ./getfile
if $test "X$ansexp" != "X$binexp"; then
 installbin=''
fi
prefixvar=bin
: XXX Bug? -- ignores Configure -Dinstallprefix setting.
: XXX If this is fixed, also fix the "start perl" hunk below, which relies on
:
    this via initialinstalllocation
. ./setprefixvar

case "$userelocatableinc" in
$define|true|[yY]*) dflt='y' ;;
*)   dflt='n' ;;
esac
cat <<EOM

Would you like to build Perl so that the installation is relocatable, so that
library paths in @INC are determined relative to the path of the perl binary?
This is not advised for system Perl installs, or if you need to run setid
scripts or scripts under taint mode.

If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
```

```
rp='Use relocatable @INC?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*) val="$undef"  ;;
esac
set userelocatableinc
eval $setvar

initialinstalllocation="$binexp"
: Default prefix is now "up one level from where the binaries are"
case "$userelocatableinc" in
$define|true|[yY]*)
   bin=".../"
   binexp=".../"
   prefix=".../.."
   prefixexp=".../.."
   installprefixexp=".../.."
   ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/bin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isfinite: Inlibc cat Compile rm_try Setvar
?MAKE: -pick add $@ %<
?S:d_isfinite:
?S: This variable conditionally defines the HAS_ISFINITE symbol, which
?S: indicates to the C program that the isfinite() routine is available.
?S:.
?C:HAS_ISFINITE:
?C: This symbol, if defined, indicates that the isfinite routine is
?C: available to check whether a double is finite (non-infinity non-NaN).
?C:.
?LINT:set d_isfinite
?H:#$d_isfinite HAS_ISFINITE  /**/
?H:.
: check for isfinite
echo "Checking to see if you have isfinite..." >&4
```

```
$cat >try.c <<EOCP
#include <math.h>
int main() { return isfinite(0.0); }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have isfinite."
else
 val="$undef"
 echo
 "You do not have isfinite."
fi
$rm_try
set d_isfinite
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_isfinite.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2006-2007, H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_c99_variadic_macros: Compile Setvar cat rm_try run
?MAKE: -pick add $@ %<
?S:d_c99_variadic_macros:
?S: This variable conditionally defines the HAS_C99_VARIADIC_MACROS
?S: symbol, which indicates to the C program that C99 variadic macros
?S: are available.
?S:.
?C:HAS_C99_VARIADIC_MACROS:
?C: If defined, the compiler supports C99 variadic macros.
?C:.
?H:#$d_c99_variadic_macros HAS_C99_VARIADIC_MACROS /**/
?H:.
?F:!try
: see if the Compiler supports C99 variadic macros
echo "Checking for C99 variadic macros." >&4
$cat >try.c <<EOCP
#include
```

```
 <stdio.h>
#include <stdarg.h>

#define foo(buffer, format, ...) sprintf(buffer, format, __VA_ARGS__)

int main() {
 char buf[20];
 foo(buf, "%d %g %.*s", 123, 456.0, (int)3, "789fail");
 puts(buf);
 return 0;
}
EOCP
set try
if eval $compile && $run ./try 2>&1 >/dev/null; then
   case "`$run ./try`" in
 "123 456 789")
 echo "You have C99 variadic macros." >&4
 d_c99_variadic_macros="$define"
 ;;
 *)
 echo "You don't have functional C99 variadic macros." >&4
 d_c99_variadic_macros="$undef"
 ;;
   esac
else
   echo "I couldn't compile and run the test program, so I assume that you don't have functional C99 variadic
macros." >&4
   d_c99_variadic_macros="$undef"
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_c99_variadic.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Config_h.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Config_h.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  14:57:43  ram
```

```
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:10:49  ram
?RCS: patch59: commented the purpose of the #un-def directive
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:25:39  ram
?RCS: patch49: typo fixes in leading config.h comment (WED)
?RCS:
?RCS: Revision 3.0.1.2  1993/08/24  12:13:20  ram
?RCS: patch3: added TOP as a local shell temporary variable
?RCS:
?RCS:
 Revision 3.0.1.1  1993/08/19  06:42:20  ram
?RCS: patch1: leading config.sh searching was not aborting properly
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file ends up producing the config_h.SH script, which is run to produce
?X: the config.h file.  The file ./.Config_h below contains all the ?H: lines
?X: extracted out of all the units.  Metaconfig itself adds the !GROK!THIS!.
?X: Note that this code isn't included into Configure, but must be shipped with.
?X:
?X: For those who wish to know why the file is config_h.SH instead of the more
?X: natural config.h.SH, well... it is to support systems like MS-DOG. Only one
?X: 'dot' is allowed within the file name, as it is part of the "extension" of
?X: the file. MS-DOG will not let you have two 'dots' because that would mean
?X: two "extensions".
?X:
?MAKE:Config_h: Id End Config_sh Obsol_h myuname cf_time cf_by package src
?MAKE: -pick c_h_weed $@ %<
?MAKE: -pick
 c_h_weed $@ ./Config_h
?MAKE: -pick c_h_weed $@ ./Obsol_h
?T:PERL_CONFIG_SH TOP
?LINT:unclosed !GROK!THIS!
?LINT:extern CONFIG_H CONFIG_SH
?LINT:change CONFIG_H CONFIG_SH
?X:?LINT:nocomment
: Set up for generating config_h.SH
case "$CONFIG_SH" in
") CONFIG_SH=config.sh;;
esac
case "$CONFIG_H" in
") CONFIG_H=config.h;;
esac
case $PERL_CONFIG_SH in
```

```
")
 if test -f $CONFIG_SH; then TOP=.;
 elif test -f ../$CONFIG_SH; then TOP=..;
 elif test -f ../../$CONFIG_SH; then TOP=../..;
 elif test -f ../../../$CONFIG_SH; then TOP=../../..;
 elif test -f ../../../../$CONFIG_SH; then TOP=../../../..;
 else
  echo "Can't find $CONFIG_SH."; exit 1
 fi
 . $TOP/$CONFIG_SH
 ;;
esac
?X: Make sure we are in the directory where the .SH file is located.
case "$0" in
*/*) cd `expr X$0 : 'X\(.*\)/'` ;;
esac
echo "Extracting $CONFIG_H (with variable substitutions)"
?X:
?X: Since we unconditionally translate leading #undef into /*#define, we're
?X: stuck when we really want to have a #undef in $CONFIG_H.
 That's why there
?X: is provision here for #un-def, which is translated back into #undef after
?X: all original #undef have been processed.
?X:
?X: Previously, we changed all
?X:  #undef FOO /**/
?X: into
?X:  /*#define FOO /**/
?X: The xlc compiler (available on IBM's AIX) complains that this is
?X: an illegal attempt to write a nested comment, and warns against it.
?X: There's apparently no way to shut the compiler up, either.
?X: This sed command from Hallvard B Furuseth <h.b.furuseth@usit.uio.no>
?X: changes it to
?X:  /*#define FOO / **/
sed <<!GROK!THIS! >$CONFIG_H -e 's!^#undef\(.*/\)\*!/\*#define\1 \*!' -e 's!^#un-def!#undef!'
/* This file was produced by running the config_h.SH script, which
* gets its values from $CONFIG_SH, which is generally produced by
* running Configure.
*
* Feel free to modify any of this as the need arises.  Note, however,
* that running config_h.SH again will wipe out any changes you've made.
* For a more permanent change edit $CONFIG_SH and
 rerun config_h.SH.
*/

/* Package name      : $package
* Source directory  : $src
* Configuration time: $cf_time
```

```
* Configured by     : $cf_by
* Target system     : $myuname
*/

#ifndef _config_h_
#define _config_h_
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Config_h.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msg.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:37  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_msg: test d_msgctl d_msgget d_msgsnd d_msgrcv Setvar Findhdr osname
?MAKE: -pick add $@ %<
?S:d_msg:
?S: This variable conditionally defines the HAS_MSG symbol, which
?S: indicates that the entire msg*(2) library is present.
?S:.
?C:HAS_MSG:
?C: This symbol, if defined, indicates that the entire msg*(2) library is
?C: supported (IPC mechanism based on message queues).
?C:.
?H:#$d_msg
 HAS_MSG  /**/
?H:.
?T:h_msg
?LINT:set d_msg
: see how much of the 'msg*(2)' library is present.
h_msg=true
echo " "
case "$d_msgctl$d_msgget$d_msgsnd$d_msgrcv" in
*"$undef"*) h_msg=false;;
esac
case "$osname" in
```

```
freebsd)
   case "`ipcs 2>&1`" in
   "SVID messages"*"not configured"*)
 echo "Your $osname does not have the msg*(2) configured." >&4
       h_msg=false
 val="$undef"
 set msgctl d_msgctl
 eval $setvar
 set msgget d_msgget
 eval $setvar
 set msgsnd d_msgsnd
 eval $setvar
 set msgrcv d_msgrcv
 eval $setvar
 ;;
   esac
   ;;
esac
: we could also check for sys/ipc.h ...
if $h_msg && $test `./findhdr sys/msg.h`; then
 echo "You have the full msg*(2) library." >&4
 val="$define"
else
 echo "You don't have the full msg*(2) library." >&4
 val="$undef"
fi
set d_msg
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_msg.U
No license file was found, but licenses were detected in source scan.

```
# $Id: errnolist.a,v 3.0 1993/08/18 12:04:35 ram Exp ram $
#
#  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
#
#  You may redistribute only under the terms of the Artistic Licence,
#  as specified in the README file that comes with the distribution.
#  You may reuse parts of this distribution only within the terms of
#  that same Artistic Licence; a copy of which may be found at the root
#  of the source tree for dist 4.0.
#
# Original Author: Harlan Stenn <harlan@mumps.pfcs.com>
#
# $Log: errnolist.a,v $
# Revision 3.0  1993/08/18 12:04:35  ram
```

```
# Baseline for dist 3.0 netwide release.
#
#
# This is a simple-minded awk script to generate an initialization for
# sys_errnolist on systems that don't have it.
# This file now depends only on sys/errno.h error numbers under maxerr being
# in order.  It will complain and die if not.  NOTE: It will still produce
# a compilable output file, even with errors, so you
 must check the output.


BEGIN  {
   format = "\t\"%s\",\n"
   printf("/*\n** This is a generated file.  Do NOT edit it unless you really have to...\n*/\n\n")
   printf("char *sys_errnolist[] = {\n")
   maxerr = 89
  }

$1=="#define" {
   if(count > maxerr || substr($2,1,1) != "E")
    next   # we're not interested
   if($3 < count) { # this is bad
    printf("Fatal error: %s out of order at %s\n",\
    FILENAME, $2)>"/dev/tty"
    exit 1
   }
   # fill in the blanks
   while($3 > count) {
    dummy=sprintf("EDUMMY%d",count)
    printf(format,dummy)
    count++
   }
   printf(format,$2)
   count++
  }

END  {
   printf("\t0\n};\n")
  }
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/lib/errnolist.a
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi

```
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_unordered: Inlibc
?MAKE: -pick add $@ %<
?S:d_unordered:
?S: This variable conditionally defines the HAS_UNORDERED symbol, which
?S: indicates to the C program that the unordered() routine is available.
?S:.
?C:HAS_UNORDERED:
?C: This symbol, if defined, indicates that the unordered routine is
?C: available to check whether two doubles are unordered
?C: (effectively: whether either of them is NaN)
?C:.
?H:#$d_unordered HAS_UNORDERED  /**/
?H:.
?LINT:set d_unordered
: see if unordered exists
set unordered d_unordered
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_unordered.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ffs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_ffs.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_ffs: Inlibc
?MAKE: -pick add $@ %<
?S:d_ffs:
?S: This variable conditionally defines the HAS_FFS symbol, which
?S: indicates to the C program that the ffs() routine is available
?S: to find the first bit which is set in its integer argument.
?S:.
```

```
?C:HAS_FFS:
?C: This symbol, if defined, indicates that the ffs routine is available
?C: to
 find the first bit set in its argument.  If it's not available,
?C: roll your own.
?C:.
?H:#$d_ffs HAS_FFS  /**/
?H:.
?LINT:set d_ffs
: see if ffs exists
set ffs d_ffs
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_ffs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getnetbyname_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getnetbyname_r getnetbyname_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getnetbyname_r:
?S: This variable conditionally defines the HAS_GETNETBYNAME_R symbol,
?S: which indicates to the C program that the getnetbyname_r()
?S: routine is available.
?S:.
?S:getnetbyname_r_proto:
?S: This variable encodes the prototype of getnetbyname_r.
?S: It is zero if d_getnetbyname_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getnetbyname_r
?S: is defined.
?S:.
?C:HAS_GETNETBYNAME_R:
?C: This symbol, if defined, indicates that
 the getnetbyname_r routine
?C: is available to getnetbyname re-entrantly.
?C:.
?C:GETNETBYNAME_R_PROTO:
?C: This symbol encodes the prototype of getnetbyname_r.
?C: It is zero if d_getnetbyname_r is undef, and one of the
```

```
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getnetbyname_r
?C: is defined.
?C:.
?H:#$d_getnetbyname_r HAS_GETNETBYNAME_R /**/
?H:#define GETNETBYNAME_R_PROTO $getnetbyname_r_proto /**/
?H:.
?T:try hdrs d_getnetbyname_r_proto
: see if getnetbyname_r exists
set getnetbyname_r d_getnetbyname_r
eval $inlibc
case "$d_getnetbyname_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getnetbyname_r_proto:$usethreads" in
 ":define") d_getnetbyname_r_proto=define
  set d_getnetbyname_r_proto getnetbyname_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getnetbyname_r_proto" in
 define)
 case "$getnetbyname_r_proto" in
 "|0) try='int getnetbyname_r(const char*, struct netent*, char*, size_t, struct netent**, int*);'
 ./protochk "$extern_C
 $try" $hdrs && getnetbyname_r_proto=I_CSBWRE ;;
 esac
 case "$getnetbyname_r_proto" in
 "|0) try='int getnetbyname_r(const char*, struct netent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getnetbyname_r_proto=I_CSBI ;;
 esac
 case "$getnetbyname_r_proto" in
 "|0) try='struct netent* getnetbyname_r(const char*, struct netent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getnetbyname_r_proto=S_CSBI ;;
 esac
 case "$getnetbyname_r_proto" in
 "|0) try='int getnetbyname_r(const char*, struct netent*, struct netent_data*);'
 ./protochk "$extern_C $try" $hdrs && getnetbyname_r_proto=I_CSD ;;
 esac
 case "$getnetbyname_r_proto" in
 "|0) d_getnetbyname_r=undef
  getnetbyname_r_proto=0
  echo "Disabling getnetbyname_r, cannot determine prototype." >&4 ;;
 * ) case "$getnetbyname_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getnetbyname_r_proto="REENTRANT_PROTO_$getnetbyname_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
```

```
 ;;
 *) case "$usethreads" in
  define) echo
 "getnetbyname_r has no prototype, not using it." >&4 ;;
  esac
  d_getnetbyname_r=undef
  getnetbyname_r_proto=0
  ;;
 esac
 ;;
*) getnetbyname_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getnetbyname_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: errnolist.U,v 3.0.1.2 1997/02/28 15:48:01 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: errnolist.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:48:01  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: likewise for .o replaced by $_o
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:10:54  ram
?RCS: patch16: created
?RCS:
?MAKE:errnolist errnolist_SH errnolist_a errnolist_c errnolist_o: cat \
 Compile +d_sysernlst _a _o
?MAKE: -pick add $@ %<
?S:errnolist:
?S: This variable holds the base name of a file containing the
?S: definition
 of the sys_errnolist array, if the C library
?S: doesn't provide it already.  Otherwise, its value is empty.
?S: The following lines should be included in your Makefile.SH:
?S:
?S:  case "$errnolist" in
```

```
?S:  ") ;;
?S:  *)
?S:   $spitshell >>Makefile <<!GROK!THIS!
?S:  $errnolist_c: $errnolist_SH $errnolist_a
?S:   sh ./$errnolist_SH
?S:
?S:  !GROK!THIS!
?S:   ;;
?S:  esac
?S:
?S: You may define the 'errnolist' variable in your Myinit.U if you
?S: wish to override its default value "errnolist".
?S:.
?S:errnolist_SH:
?S: This is the name of a file which will generate errnolistc.
?S:.
?S:errnolist_a:
?S: This is the name of the awk script called by errnolist_SH.
?S:.
?S:errnolist_c:
?S: This is the name of a generated C file which provides the
?S: definition of the sys_errnolist array.
?S:.
?S:errnolist_o:
?S: This is the name of the object file which provides the
?S: definition of the sys_errnolist array, if the C library
?S: doesn't provide it already.  Otherwise, its value is
 empty.
?S:.
?INIT:errnolist=errnolist
: check for sys_errnolist
@if d_sysernlst || HAS_SYS_ERRNOLIST
case "$d_sysernlst" in
"$define")
   errnolist="
   errnolist_SH="
   errnolist_a="
   errnolist_c="
   errnolist_o="
 ;;
*)
 echo " "
 echo "I'll make sure your Makefile provides sys_errnolist in $errnolist.c"
   errnolist_SH=$errnolist.SH
   errnolist_a=$errnolist$_a
   errnolist_c=$errnolist.c
   errnolist_o=$errnolist$_o
 ;;
```

```
esac
@else
echo " "
$cat <<EOM
Checking to see if your C library provides us with sys_errnolist[]...
EOM
$cat >errnolist.c <<'EOCP'
extern char *sys_errnolist[];
int main() {
   char *p0 = sys_errnolist[0];
   char *p1 = sys_errnolist[1];

   return (p0 == p1); /* Make sure they're not optimized away */
}
EOCP
set errnolist
if eval $compile; then
   echo "It does."
   errnolist="
   errnolist_SH="
   errnolist_a="
   errnolist_c="
   errnolist_o="
else
 echo "I'll make sure your Makefile provides sys_errnolist in $errnolist.c"
   errnolist_SH=$errnolist.SH
    errnolist_a=$errnolist$_a
   errnolist_c=$errnolist.c
   errnolist_o=$errnolist$_o
fi
@end
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/errnolist.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: voidflags.U,v 3.0.1.2 1997/02/28 16:27:58 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: voidflags.U,v $
```

```
?RCS: Revision 3.0.1.2  1997/02/28  16:27:58  ram
?RCS: patch61: don't prompt them if the void support is high enough for us
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:37:44  ram
?RCS: patch45: cosmetic change to avoid spurious blank lines when using -s
?RCS:
?RCS: Revision 3.0  1993/08/18  12:10:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:voidflags defvoidused: cat rm_try compiler_warning +cc +ccflags package \
 Oldconfig
 Myread i_stdlib
?MAKE: -pick add $@ %<
?S:voidflags:
?S: This variable contains the eventual value of the VOIDFLAGS symbol,
?S: which indicates how much support of the void type is given by this
?S: compiler.  See VOIDFLAGS for more info.
?S:.
?S:defvoidused:
?S: This variable contains the default value of the VOIDUSED symbol (15).
?S:.
?X: Exceptionally, we have to explicitly alias the symbol name for
?X: config_h.SH, otherwise the comment would not appear.
?C:VOIDFLAGS ~ %<:
?C: This symbol indicates how much support of the void type is given by this
?C: compiler.  What various bits mean:
?C:
?C:     1 = supports declaration of void
?C:     2 = supports arrays of pointers to functions returning void
?C:     4 = supports comparisons between pointers to void functions and
?C:      addresses of void functions
?C:     8 = supports declaration of generic void pointers
?C:
?C: The package designer should define VOIDUSED to indicate the requirements
?C: of the package.  This can be
 done either by #defining VOIDUSED before
?C: including config.h, or by defining defvoidused in Myinit.U.  If the
?C: latter approach is taken, only those flags will be tested.  If the
?C: level of void support necessary is not present, defines void to int.
?C:.
?H:?%<:#ifndef VOIDUSED
?H:?%<:#define VOIDUSED $defvoidused
?H:?%<:#endif
?H:?%<:#define VOIDFLAGS $voidflags
?H:?%<:#if (VOIDFLAGS & VOIDUSED) != VOIDUSED
?H:?%<:#define void int  /* is void to be avoided? */
?H:?%<:#define M_VOID   /* Xenix strikes again */
?H:?%<:#endif
```

```
?H:.
?INIT:: full support for void wanted by default
?INIT:defvoidused=15
?INIT:
?LINT:known void M_VOID VOIDUSED
: check for void type
echo " "
echo "Checking to see how well your C compiler groks the void type..." >&4
case "$voidflags" in
")
 $cat >try.c <<EOCP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#if TRY & 1
void sub() {
#else
sub() {
#endif
 extern void moo(); /* function returning void */
 void (*goo)();  /* ptr to func returning
 void */
#if TRY & 8
 void *hue;  /* generic ptr */
#endif
#if TRY & 2
 void (*foo[10])();
#endif

#if TRY & 4
 if(goo == moo) {
  exit(0);
 }
#endif
 exit(0);
}
int main() { sub(); }
EOCP
?X: This unit used to use cc -S in those tests to try to speed up things, but
?X: unfortunately, AIX 3.2 does not support this option.
 if $cc $ccflags -c -DTRY=$defvoidused try.c >.out 2>&1 ; then
  voidflags=$defvoidused
 echo "Good.  It appears to support void to the level $package wants.">&4
  if $compiler_warning .out >/dev/null 2>&1; then
   echo "However, you might get some warnings that look like this:"
   $cat .out
  fi
```

```
 else
echo "Hmm, your compiler has some difficulty with void. Checking further..." >&4
  if $cc $ccflags -c -DTRY=1 try.c >/dev/null 2>&1; then
   echo "It supports 1..."
   if $cc $ccflags -c -DTRY=3 try.c >/dev/null 2>&1; then
    echo "It also supports 2..."
    if $cc $ccflags -c -DTRY=7 try.c >/dev/null 2>&1; then
     voidflags=7
     echo "And it supports 4 but not 8
 definitely."
    else
     echo "It doesn't support 4..."
     if $cc $ccflags -c -DTRY=11 try.c >/dev/null 2>&1; then
      voidflags=11
      echo "But it supports 8."
     else
      voidflags=3
      echo "Neither does it support 8."
     fi
    fi
   else
    echo "It does not support 2..."
    if $cc $ccflags -c -DTRY=13 try.c >/dev/null 2>&1; then
     voidflags=13
     echo "But it supports 4 and 8."
    else
     if $cc $ccflags -c -DTRY=5 try.c >/dev/null 2>&1; then
      voidflags=5
      echo "And it supports 4 but has not heard about 8."
     else
      echo "However it supports 8 but not 4."
     fi
    fi
   fi
  else
   echo "There is no support at all for void."
   voidflags=0
  fi
 fi
esac
?X: Only prompt user if support does not match the level we want
case "$voidflags" in
"$defvoidused") ;;
*) $cat >&4 <<'EOM'
 Support flag bits are:
   1: basic void declarations.
   2: arrays of pointers to functions returning void.
   4: operations between pointers to and addresses
```

```
 of void functions.
   8: generic void pointers.
EOM
 dflt="$voidflags";
 rp="Your void support flags add up to what?"
 . ./myread
 voidflags="$ans"
 ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/voidflags.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_mbstowcs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_mbstowcs.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:29  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_mbstowcs: Inlibc
?MAKE: -pick add $@ %<
?S:d_mbstowcs:
?S: This variable conditionally defines the HAS_MBSTOWCS symbol, which
?S: indicates to the C program that the mbstowcs() routine is available
?S: to convert a multibyte string into a wide character string.
?S:.
?C:HAS_MBSTOWCS (MBSTOWCS):
?C: This symbol, if defined, indicates
 that the mbstowcs routine is
?C: available to convert a multibyte string into a wide character string.
?C:.
?H:#$d_mbstowcs HAS_MBSTOWCS  /**/
?H:.
?LINT:set d_mbstowcs
: see if mbstowcs exists
set mbstowcs d_mbstowcs
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_mbstowcs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_mbtowc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_mbtowc.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:30  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_mbtowc: Inlibc
?MAKE: -pick add $@ %<
?S:d_mbtowc:
?S: This variable conditionally defines the HAS_MBTOWC symbol, which
?S: indicates to the C program that the mbtowc() routine is available
?S: to convert multibyte to a wide character.
?S:.
?C:HAS_MBTOWC (MBTOWC):
?C: This symbol, if defined, indicates that the mbtowc routine is available
?C: to
 convert a multibyte to a wide character.
?C:.
?H:#$d_mbtowc HAS_MBTOWC  /**/
?H:.
?LINT:set d_mbtowc
: see if mbtowc exists
set mbtowc d_mbtowc
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_mbtowc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2003 Jarkko Hietaniemi
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_scalbnl: Inlibc
?MAKE: -pick add $@ %<
?S:d_scalbnl:
?S: This variable conditionally defines the HAS_SCALBNL symbol, which
?S: indicates to the C program that the scalbnl() routine is available.
?S: If ilogbl is also present we can emulate frexpl.
?S:.
?C:HAS_SCALBNL:
?C: This symbol, if defined, indicates that the scalbnl routine is
?C: available.  If ilogbl is also present we can emulate frexpl.
?C:.
?H:#$d_scalbnl HAS_SCALBNL  /**/
?H:.
?LINT:set d_scalbnl
: see if scalbnl exists
set scalbnl d_scalbnl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_scalbnl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_attribut.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_attribut.U,v $
?RCS: Revision 3.0.1.3  1995/01/30  14:33:45  ram
?RCS: patch49: test C program now includes <stdio.h> (WED)
?RCS:
?RCS: Revision 3.0.1.2  1995/01/11  15:25:47  ram
?RCS: patch45: fixed typo in the d_attribut variable (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:08:55  ram
?RCS: patch36: created by ADO
?RCS:
```

```
?MAKE:d_attribute_deprecated d_attribute_format
 d_attribute_malloc \
 d_attribute_nonnull d_attribute_noreturn d_attribute_pure \
 d_attribute_unused d_attribute_warn_unused_result \
 d_printf_format_null d_attribute_always_inline: \
    Myread Oldconfig cat cc ccflags rm Setvar compiler_warning \
        i_stdlib run i_inttypes
?MAKE: -pick add $@ %<
?S:d_attribute_format:
?S: This variable conditionally defines HASATTRIBUTE_FORMAT, which
?S: indicates the C compiler can check for printf-like formats.
?S:.
?S:d_attribute_deprecated:
?S: This variable conditionally defines HASATTRIBUTE_DEPRECATED, which
?S: indicates that GCC can handle the attribute for marking deprecated
?S: APIs
?S:.
?S:d_printf_format_null:
?S: This variable conditionally defines PRINTF_FORMAT_NULL_OK, which
?S: indicates the C compiler allows printf-like formats to be null.
?S:.
?S:d_attribute_malloc:
?S: This variable conditionally defines HASATTRIBUTE_MALLOC, which
?S: indicates the C compiler can understand functions as having
?S: malloc-like semantics.
?S:.
?S:d_attribute_nonnull:
?S: This
 variable conditionally defines HASATTRIBUTE_NONNULL, which
?S: indicates that the C compiler can know that certain arguments
?S: must not be NULL, and will check accordingly at compile time.
?S:.
?S:d_attribute_noreturn:
?S: This variable conditionally defines HASATTRIBUTE_NORETURN, which
?S: indicates that the C compiler can know that certain functions
?S: are guaranteed never to return.
?S:.
?S:d_attribute_pure:
?S: This variable conditionally defines HASATTRIBUTE_PURE, which
?S: indicates that the C compiler can know that certain functions
?S: are "pure" functions, meaning that they have no side effects, and
?S: only rely on function input and/or global data for their results.
?S:.
?S:d_attribute_unused:
?S: This variable conditionally defines HASATTRIBUTE_UNUSED, which
?S: indicates that the C compiler can know that certain variables
?S: and arguments may not always be used, and to not throw warnings
?S: if they don't get used.
```

```
?S:.
?S:d_attribute_warn_unused_result:
?S: This
 variable conditionally defines
?S: HASATTRIBUTE_WARN_UNUSED_RESULT, which indicates that the C
?S: compiler can know that certain functions have a return values
?S: that must not be ignored, such as malloc() or open().
?S:.
?S:d_attribute_always_inline:
?S: This variable conditionally defines HASATTRIBUTE_ALWAYS_INLINE,
?S: which indicates that the C compiler can know that certain
?S: functions should always be inlined.
?S:.
?C:HASATTRIBUTE_FORMAT ~ %< (GNUC_ATTRIBUTE_CHECK):
?C: Can we handle GCC attribute for checking printf-style formats
?C:.
?C:PRINTF_FORMAT_NULL_OK:
?C: Allows __printf__ format to be null when checking printf-style
?C:.
?C:HASATTRIBUTE_MALLOC:
?C: Can we handle GCC attribute for malloc-style functions.
?C:.
?C:HASATTRIBUTE_NONNULL:
?C: Can we handle GCC attribute for nonnull function parms.
?C:.
?C:HASATTRIBUTE_NORETURN:
?C: Can we handle GCC attribute for functions that do not return
?C:.
?C:HASATTRIBUTE_PURE:
?C: Can we handle
 GCC attribute for pure functions
?C:.
?C:HASATTRIBUTE_UNUSED:
?C: Can we handle GCC attribute for unused variables and arguments
?C:.
?C:HASATTRIBUTE_DEPRECATED:
?C: Can we handle GCC attribute for marking deprecated APIs
?C:.
?C:HASATTRIBUTE_WARN_UNUSED_RESULT ~ %< (HASATTRIBUTE):
?C: Can we handle GCC attribute for warning on unused results
?C:.
?C:HASATTRIBUTE_ALWAYS_INLINE:
?C: Can we handle GCC attribute for functions that should always be
?C: inlined.
?C:.
?H:?%<:#$d_attribute_deprecated HASATTRIBUTE_DEPRECATED /**/
?H:?%<:#$d_attribute_format HASATTRIBUTE_FORMAT /**/
?H:?%<:#$d_printf_format_null PRINTF_FORMAT_NULL_OK /**/
```

```
?H:?%<:#$d_attribute_noreturn HASATTRIBUTE_NORETURN /**/
?H:?%<:#$d_attribute_malloc HASATTRIBUTE_MALLOC /**/
?H:?%<:#$d_attribute_nonnull HASATTRIBUTE_NONNULL /**/
?H:?%<:#$d_attribute_pure HASATTRIBUTE_PURE /**/
?H:?%<:#$d_attribute_unused HASATTRIBUTE_UNUSED /**/
?H:?%<:#$d_attribute_warn_unused_result HASATTRIBUTE_WARN_UNUSED_RESULT /**/
?H:?%<:#$d_attribute_always_inline
 HASATTRIBUTE_ALWAYS_INLINE /**/
?H:.
?F:!attrib !attrib.out !attrib.c
?LINT:set d_attribute_deprecated
?LINT:set d_attribute_format
?LINT:set d_printf_format_null
?LINT:set d_attribute_malloc
?LINT:set d_attribute_nonnull
?LINT:set d_attribute_noreturn
?LINT:set d_attribute_pure
?LINT:set d_attribute_unused
?LINT:set d_attribute_warn_unused_result
?LINT:set d_attribute_always_inline
: Look for GCC-style attribute format
case "$d_attribute_format" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((format)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
void my_special_printf(char* pat,...) __attribute__((__format__(__printf__,1,2)));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((format))."
  val="$undef"
 else
  echo "Your C compiler supports __attribute__((format))."
  val="$define"
 fi
else
 echo "Your C compiler
 doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_format" ;;
esac
set d_attribute_format
eval $setvar
$rm -f attrib*
```

```
: Look for GCC-style attribute format with null format allowed
case "$d_printf_format_null" in
") case "$d_attribute_format" in
   $define)
 echo " "
 echo "Checking whether your compiler allows __printf__ format to be null ..." >&4
$cat >attrib.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_inttypes I_INTTYPES
#ifdef I_INTTYPES
#include <inttypes.h>
#endif
#ifndef INTPTR_MAX
#define intptr_t int
#endif
int null_printf (char* pat,...) __attribute__((__format__(__printf__,1,2)));
int null_printf (char* pat,...) { return (int)(intptr_t)pat; }
int main () { exit(null_printf(NULL)); }
EOCP
 if $cc $ccflags -o attrib attrib.c >attrib.out 2>&1 ; then
     : run the executable in case it produces a run-time warning
     if $run ./attrib >>attrib.out 2>&1; then
  if $compiler_warning attrib.out
 >/dev/null 2>&1; then
      echo "Your C compiler doesn't allow __printf__ format to be null."
      val="$undef"
  else
      echo "Your C compiler allows __printf__ format to be null."
      val="$define"
  fi
     else
     echo "Your C compiler executable failed with __printf__ format null."
     val="$undef"
 fi
   else
 echo "Your C compiler fails with __printf__ format null."
 val="$undef"
   fi
   ;;
   *)  val="$undef" ;;
   esac
;;
*)  val="$d_printf_format_null" ;;
```

```
esac
set d_printf_format_null
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute malloc
case "$d_attribute_malloc" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((malloc)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
char *go_get_some_memory( int how_many_bytes ) __attribute__((malloc));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((malloc))."
  val="$undef"
 else
  echo
 "Your C compiler supports __attribute__((malloc))."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_malloc" ;;
esac
set d_attribute_malloc
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute nonnull
case "$d_attribute_nonnull" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((nonnull(1))) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
void do_something (char *some_pointer,...) __attribute__((nonnull(1)));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((nonnull))."
  val="$undef"
 else
```

```
  echo "Your C compiler supports __attribute__((nonnull))."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_nonnull" ;;
esac
set d_attribute_nonnull
eval
 $setvar
$rm -f attrib*

: Look for GCC-style attribute noreturn
case "$d_attribute_noreturn" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((noreturn)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
void fall_over_dead( void ) __attribute__((noreturn));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((noreturn))."
  val="$undef"
 else
  echo "Your C compiler supports __attribute__((noreturn))."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_noreturn" ;;
esac
set d_attribute_noreturn
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute pure
case "$d_attribute_pure" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((pure)) ..." >&4
```

```
$cat >attrib.c <<'EOCP'
#include <stdio.h>
int square( int
 n ) __attribute__((pure));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((pure))."
  val="$undef"
 else
  echo "Your C compiler supports __attribute__((pure))."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_pure" ;;
esac
set d_attribute_pure
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute unused
case "$d_attribute_unused" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((unused)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
int do_something( int dummy __attribute__((unused)), int n );
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((unused))."
  val="$undef"
 else
  echo "Your C compiler supports __attribute__((unused))."
  val="$define"
 fi
else
 echo
 "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_unused" ;;
```

```
esac
set d_attribute_unused
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute deprecated
case "$d_attribute_deprecated" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((deprecated)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
int I_am_deprecated(void) __attribute__((deprecated));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((deprecated))."
  val="$undef"
 else
  echo "Your C compiler supports __attribute__((deprecated))."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_deprecated" ;;
esac
set d_attribute_deprecated
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute
 warn_unused_result
case "$d_attribute_warn_unused_result" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((warn_unused_result)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
int I_will_not_be_ignored(void) __attribute__((warn_unused_result));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((warn_unused_result))."
  val="$undef"
 else
```

```
  echo "Your C compiler supports __attribute__((warn_unused_result))."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_warn_unused_result" ;;
esac
set d_attribute_warn_unused_result
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute always_inline
case "$d_attribute_always_inline" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((always_inline)) ..." >&4
$cat >attrib.c <<'EOCP'
#include
 <stdio.h>
static __inline__ __attribute__((always_inline)) int I_will_always_be_inlined(void);
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((always_inline))."
  val="$undef"
 else
  echo "Your C compiler supports __attribute__((always_inline))."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_always_inline" ;;
esac
set d_attribute_always_inline
eval $setvar
$rm -f attrib*
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_attribut.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strxfrm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_strxfrm.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:12:04  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_strxfrm: Inlibc
?MAKE: -pick add $@ %<
?S:d_strxfrm:
?S: This variable conditionally defines HAS_STRXFRM if strxfrm() is
?S: available to transform strings.
?S:.
?C:HAS_STRXFRM:
?C: This symbol, if defined, indicates that the strxfrm() routine is
?C: available to transform
 strings.
?C:.
?H:#$d_strxfrm HAS_STRXFRM /**/
?H:.
?LINT:set d_strxfrm
: see if strxfrm exists
set strxfrm d_strxfrm
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strxfrm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Config_sh.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: Config_sh.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  14:57:53  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.2  1995/01/11  14:53:31  ram
?RCS: patch45: moved path stripping from d_portable.U to end of Configure
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:50:37  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X:
 This unit ends up producing the config.sh script, which contains all the
?X: definitions figured out by Configure.  The add.Config_sh command knows
?X: which variables need to be remembered.  It also adds the EOT (ends the
?X: here document redirection with variable substitution).
?X:
?MAKE:Config_sh: cf_time cf_by test spitshell startsh myuname Myread \
 End Obsol_sh Loc +d_portable package src cat
?MAKE: -pick add.Config_sh $@ %<
?MAKE: -pick add $@ ./Obsol_sh
?MAKE: -pick close.Config_sh $@ %<
?F:!config.over !config.arch
?T:file temp
?LINT:unclosed EOT
: back to where it started
if test -d ../UU; then
 cd ..
fi

: configuration may be unconditionally patched via a 'config.arch' file
if $test -f config.arch; then
 echo "I see a config.arch file, loading it." >&4
 . ./config.arch
fi

: configuration may be patched via a 'config.over' file
if $test -f config.over; then
 echo " "
 dflt=y
 rp='I see a config.over file.  Do you wish to load it?'
 . UU/myread
 case "$ans" in
 n*) echo
```

```
 "OK, I'll ignore it.";;
 *) . ./config.over
  echo "Configuration override changes have been loaded."
  ;;
 esac
fi

@if d_portable
: in case they want portability, strip down executable paths
?X:
?X: Strip down paths in located executables. For each file, e.g. vi, there
?X: is a $vi variable whose value is for instance '/usr/bin/vi'. By resetting
?X: $vi to 'vi', we rely on the PATH variable to locate the executable...
?X:
case "$d_portable" in
"$define")
 echo " "
 echo "Stripping down executable paths..." >&4
?X:
?X: Previously, we used to do    eval $file="\$file"  but in order
?X: to handle things like  sh Configure -Dmake=gmake, we can't do
?X: that.  What we *really* want is to strip away the absolute path
?X: and rely on the end user's $PATH to correctly find the executable.
?X: This method assumes there is a "basename" command available.  If
?X: not, replace it with the following expr-based command:
?X:   expr  $temp : '.*/\(.*\)' \| $temp
?X: Since this preserves the actual
 command name, we can now drop the
?X: OS/2 specific code.
?X:  --Andy Dougherty  August 1999
?X:
?X: On OS/2, a special $ar command not even named 'ar' is required,
?X: so we don't strip that name.
?X: Also, on DOS-ish systems, there might not be a ln command, but we
?X: might have ln='cp'.
?X: However, we can't set d_portable=undef on such systems since
?X: Unix-ish tools don't have standard locations there.  Thus we
?X: MUST rely on the user's $PATH.
?X: --Andy Dougherty  4/1998
?X:
 for file in $loclist $trylist; do
  eval temp=\$$file
  eval $file=`basename $temp`
 done
 ;;
esac

@end
```

```
: create config.sh file
echo " "
echo "Creating config.sh..." >&4
$spitshell <<EOT >config.sh
$startsh
#
# This file was produced by running the Configure script. It holds all the
# definitions figured out by Configure. Should you modify one of these values,
# do not forget to propagate your changes by running "Configure -der". You may
# instead choose to run each of the .SH files by yourself, or "Configure
 -S".
#

# Package name      : $package
# Source directory  : $src
# Configuration time: $cf_time
# Configured by     : $cf_by
# Target system     : $myuname

EOT
?X: Command line options are saved by the Options.U unit in the
?X: temporary file UU/cmdline.opt
: Add in command line options if available
$test -f UU/cmdline.opt && $cat UU/cmdline.opt >> config.sh

$spitshell <<EOT >>config.sh
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Config_sh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setvbuf.U,v 3.0.1.1 1994/08/29 16:11:57 ram Exp $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_setvbuf.U,v $
?RCS:
?MAKE:d_setvbuf: Inlibc
?MAKE: -pick add $@ %<
?S:d_setvbuf:
?S: This variable conditionally defines the HAS_SETVBUF symbol, which
?S: indicates to the C program that the setvbuf() routine is available
```

```
?S: to change buffering on an open stdio stream.
?S:.
?C:HAS_SETVBUF :
?C: This symbol, if defined, indicates that the setvbuf routine is
?C: available to change buffering on an open stdio stream.
?C: to a line-buffered mode.
?C:.
?H:#$d_setvbuf HAS_SETVBUF  /**/
?H:.
?LINT:set d_setvbuf
: see if setvbuf exists
set setvbuf d_setvbuf
eval $inlibc
```

Found
 in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_setvbuf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_sqrtl: Inlibc
?MAKE: -pick add $@ %<
?S:d_sqrtl:
?S: This variable conditionally defines the HAS_SQRTL symbol, which
?S: indicates to the C program that the sqrtl() routine is available.
?S:.
?C:HAS_SQRTL:
?C: This symbol, if defined, indicates that the sqrtl routine is
?C: available to do long double square roots.
?C:.
?H:#$d_sqrtl HAS_SQRTL  /**/
?H:.
?LINT:set d_sqrtl
: see if sqrtl exists
set sqrtl d_sqrtl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_sqrtl.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_scannl.U,v 3.0.1.2 1997/02/28 15:41:27 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_scannl.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:41:27  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  13:59:12  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:00  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Does the scanf routine read "\n" correctly ? This is was not
?X: the case on AIX...
?X:
?MAKE:d_scannl: cat rm Setvar Compile run
?MAKE: -pick
 add $@ %<
?S:d_scannl:
?S: This variable conditionally defines SCAN_NL, which indicates
?S: whether the C library routines scanf() and friends can deal with
?S: a '\n' in the input correctly. They do most of the time.
?S:.
?C:SCAN_NL:
?C: This symbol is defined if the C library routines scanf() and friends
?C: can deal with a '\n' in the input correctly, so that you can say
?C: scanf("%d\n"); instead of scanf("%d"); getc(c); to handle the '\n'.
?C:.
?H:#$d_scannl SCAN_NL  /* scanf("%d\n") works */
?H:.
?F:!try
?LINT:set d_scannl
: does scanf handle "\n" correctly ?
echo " "
val="$define"
?X: I really want to say "\n" instead of '\n', because I am referring
?X: to the string given as argument to scanf().
```

```
echo 'Let""""s see if scanf() handles "\\n" correctly...' >&4
$cat >try.c <<'EOCP'
int main()
{
 int i = 0, j = 0;
 scanf("%d\n%d", &i, &j);
 if (j != 3)
  exit(1);
 exit(0);
}
EOCP
set try
if eval $compile_ok; then
 if $run ./try <<'EOD'
2
3
EOD
 then
  echo "Yes, it does."
 else
  echo
 "No, it doesn't."
  val="$undef"
 fi
else
 echo "(I can't seem to compile the test program. Assuming it does.)"
fi
set d_scannl
eval $setvar
$rm -f try.* try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_scannl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_nexttoward: Inlibc
?MAKE: -pick add $@ %<
?S:d_nexttoward:
?S: This variable conditionally defines HAS_NEXTTOWARD if nexttoward()
?S: is available to return the next machine representable long double from
?S: x in direction y.
?S:.
?C:HAS_NEXTTOWARD:
?C: This symbol, if defined, indicates that the nexttoward routine is
```

```
?C: available to return the next machine representable long double from
?C: x in direction y.
?C:.
?H:#$d_nexttoward HAS_NEXTTOWARD  /**/
?H:.
?LINT:set d_nexttoward
: see if nexttoward exists
set nexttoward d_nexttoward
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_nexttoward.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endsent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_endsent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_endsent: Inlibc
?MAKE: -pick add $@ %<
?S:d_endsent:
?S: This variable conditionally defines HAS_ENDSERVENT if endservent() is
?S: available to close whatever was being used for service queries.
?S:.
?C:HAS_ENDSERVENT:
?C: This symbol, if defined, indicates that the endservent() routine is
?C: available to close whatever was being used for
 service queries.
?C:.
?H:#$d_endsent HAS_ENDSERVENT  /**/
?H:.
?LINT:set d_endsent
: see if endservent exists
set endservent d_endsent
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_endsent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2006-2007, H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_builtin_choose_expr d_builtin_expect : Compile Setvar cat run rm_try
?MAKE: -pick add $@ %<
?S:d_builtin_choose_expr:
?S: This conditionally defines HAS_BUILTIN_CHOOSE_EXPR, which
?S: indicates that the compiler supports __builtin_choose_expr(x,y,z).
?S: This built-in function is analogous to the "x?y:z" operator in C,
?S: except that the expression returned has its type unaltered by
?S: promotion rules. Also, the built-in function does not evaluate
?S: the expression that was not chosen.
?S:.
?S:d_builtin_expect:
?S: This conditionally
 defines HAS_BUILTIN_EXPECT, which indicates
?S: that the compiler supports __builtin_expect(exp,c).  You may use
?S: __builtin_expect to provide the compiler with branch prediction
?S: information.
?S:.
?C:HAS_BUILTIN_CHOOSE_EXPR:
?C: Can we handle GCC builtin for compile-time ternary-like expressions
?C:.
?C:HAS_BUILTIN_EXPECT:
?C: Can we handle GCC builtin for telling that certain values are more
?C: likely
?C:.
?H:#$d_builtin_expect HAS_BUILTIN_EXPECT /**/
?H:#$d_builtin_choose_expr HAS_BUILTIN_CHOOSE_EXPR /**/
?H:.
?F:!try
?LINT:set d_builtin_expect d_builtin_choose_expr
: Look for GCC-style __builtin_choose_expr
case "$d_builtin_choose_expr" in
")
   echo " "
   echo "Checking whether your compiler can handle __builtin_choose_expr ..." >&4
   $cat >try.c <<'EOCP'
#include <assert.h>
```

```
#include <stdlib.h>
#include <stdio.h>

#define SYRINX(x) __builtin_choose_expr( x, (1056*2), (103*50) )

int main(void) {
   assert( SYRINX(1) == 2112 );
   assert( SYRINX(1) != 5150 );
    assert( SYRINX(0) == 5150 );
   assert( SYRINX(0) != 2112 );
   puts( "All good!" );
   exit(0);
}

EOCP
   set try
   if eval $compile && $run ./try; then
 echo "Your C compiler supports __builtin_choose_expr."
 val="$define"
   else
 echo "Your C compiler doesn't seem to understand __builtin_choose_expr."
 val="$undef"
   fi
;;
*) val="$d_builtin_choose_expr" ;;
esac

set d_builtin_choose_expr
eval $setvar
$rm_try

: Look for GCC-style __builtin_expect
case "$d_builtin_expect" in
")
   echo " "
   echo "Checking whether your compiler can handle __builtin_expect ..." >&4
   $cat >try.c <<'EOCP'
int main(void) {
   int n = 50;
   if ( __builtin_expect(n, 0) ) n = 1;
   /* Remember shell exit code truth is 0, C truth is non-zero */
   return !(n == 1);
}
EOCP
   set try
   if eval $compile && $run ./try; then
 echo "Your C compiler supports __builtin_expect."
 val="$define"
```

```
   else
 echo "Your C compiler doesn't seem to understand __builtin_expect."
 val="$undef"
    fi
   ;;
*) val="$d_builtin_expect" ;;
esac

set d_builtin_expect
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_builtin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: cpp_stuff.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cpp_stuff.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:08:24  ram
?RCS: patch36: now uses cppstdin instead of plain cpp for consistency (ADO)
?RCS: patch36: remove temporary files when done
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:36  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:cpp_stuff: cat contains cppstdin cppflags cppminus rm
?MAKE: -pick add $@ %<
?S:cpp_stuff:
?S: This variable contains an identification of the concatenation
 mechanism
?S: used by the C preprocessor.
?S:.
?C:CAT2:
?C: This macro concatenates 2 tokens together.
?C:.
?C:CAT3:
?C: This macro concatenates 3 tokens together.
?C:.
```

```
?C:CAT4:
?C: This macro concatenates 4 tokens together.
?C:.
?C:CAT5:
?C: This macro concatenates 5 tokens together.
?C:.
?C:STRINGIFY:
?C: This macro surrounds its token with double quotes.
?C:.
?C:SCAT2:
?C: This macro concatenates 2 tokens together and stringifies the result.
?C: It might not exist, so #ifdef it in your code!
?C:.
?C:SCAT3:
?C: This macro concatenates 3 tokens together and stringifies the result.
?C: It might not exist, so #ifdef it in your code!
?C:.
?C:SCAT4:
?C: This macro concatenates 4 tokens together and stringifies the result.
?C: It might not exist, so #ifdef it in your code!
?C:.
?C:SCAT5:
?C: This macro concatenates 5 tokens together and stringifies the result.
?C: It might not exist, so #ifdef it in your code!
?C:.
?X: Dist pl70 included the following, but AIX's xlc compiler
?X: (which
 is ANSI-ish and has cpp_stuff == 42)) rejects
?X: The SQuoTe/EQuoTe stuff because the string literals are on
?X: separate lines.  Sigh.
?X:  Andy Dougherty   24 Feb 1998
?X: ?H:?%<:#if $cpp_stuff == 1
?X: ?H:?CAT2:#define CAT2(a,b)a/**/b
?X: ?H:?CAT3:#define CAT3(a,b,c)a/**/b/**/c
?X: ?H:?CAT4:#define CAT4(a,b,c,d)a/**/b/**/c/**/d
?X: ?H:?CAT5:#define CAT5(a,b,c,d,e)a/**/b/**/c/**/d/**/e
?X: ?H:?STRINGIFY:#define STRINGIFY(a)"a"
?X: ?H:?%<:#define SQuoTe(a)"a
?X: ?H:?%<:#define EQuoTe(a)a"
?X: ?H:?SCAT2:#define SCAT2(a,b)EQuoTe(SQuoTe(a)b)
?X: ?H:?SCAT3:#define SCAT3(a,b,c)EQuoTe(SQuoTe(a)b/**/c)
?X: ?H:?SCAT4:#define SCAT4(a,b,c,d)EQuoTe(SQuoTe(a)b/**/c/**/d)
?X: ?H:?SCAT5:#define SCAT5(a,b,c,d,e)EQuoTe(SQuoTe(a)b/**/c/**/d/**/e)
?X: ?H:?%<:#endif
?H:?%<:#if $cpp_stuff == 1
?H:?CAT2:#define CAT2(a,b) a/**/b
?H:?CAT3:#define CAT3(a,b,c) a/**/b/**/c
?H:?CAT4:#define CAT4(a,b,c,d) a/**/b/**/c/**/d
```

```
?H:?CAT5:#define CAT5(a,b,c,d,e) a/**/b/**/c/**/d/**/e
?H:?STRINGIFY:#define STRINGIFY(a) "a"
?X: If
 you can get stringification with catify, tell me how!
?H:?%<:#endif
?H:?%<:#if $cpp_stuff == 42
?H:?%<:#define PeRl_CaTiFy(a, b) a ## b
?H:?%<:#define PeRl_StGiFy(a) #a
?X: The additional level of indirection enables these macros to be
?X: used as arguments to other macros.  See K&R 2nd ed., page 231.
?H:?CAT2:#define CAT2(a,b) PeRl_CaTiFy(a,b)
?H:?CAT3:#define CAT3(a,b,c) CAT2(PeRl_CaTiFy(a,b),c)
?H:?CAT4:#define CAT4(a,b,c,d) CAT2(CAT3(a,b,c),d)
?H:?CAT5:#define CAT5(a,b,c,d,e) CAT2(CAT4(a,b,c,d),e)
?H:?%<:#define StGiFy(a) PeRl_StGiFy(a)
?H:?STRINGIFY:#define STRINGIFY(a) PeRl_StGiFy(a)
?H:?SCAT2:#define SCAT2(a,b) PeRl_StGiFy(a) PeRl_StGiFy(b)
?H:?SCAT3:#define SCAT3(a,b,c) PeRl_StGiFy(a) PeRl_StGiFy(b) PeRl_StGiFy(c)
?H:?SCAT4:#define SCAT4(a,b,c,d) PeRl_StGiFy(a) PeRl_StGiFy(b) PeRl_StGiFy(c) PeRl_StGiFy(d)
?H:?SCAT5:#define SCAT5(a,b,c,d,e) PeRl_StGiFy(a) PeRl_StGiFy(b) PeRl_StGiFy(c) PeRl_StGiFy(d)
PeRl_StGiFy(e)
?H:?%<:#endif
?H:?%<:#if $cpp_stuff != 1 && $cpp_stuff
 != 42
?H:?%<:#include "Bletch: How does this C preprocessor concatenate tokens?"
?H:?%<:#endif
?H:.
?W:%<:CAT2 CAT3 CAT4 CAT5 STRINGIFY SCAT2 SCAT3 SCAT4 SCAT5
?F:!cpp_stuff.c
?LINT:known StGiFy
?LINT:known PeRl_CaTiFy
?LINT:known PeRl_StGiFy
: how do we concatenate cpp tokens here?
echo " "
echo "Checking to see how your cpp does stuff like concatenate tokens..." >&4
$cat >cpp_stuff.c <<'EOCP'
#define RCAT(a,b)a/**/b
#define ACAT(a,b)a ## b
RCAT(Rei,ser)
ACAT(Cir,cus)
EOCP
$cppstdin $cppflags $cppminus <cpp_stuff.c >cpp_stuff.out 2>&1
if $contains 'Circus' cpp_stuff.out >/dev/null 2>&1; then
 echo "Oh!  Smells like ANSI's been here." >&4
 echo "We can catify or stringify, separately or together!"
 cpp_stuff=42
elif $contains 'Reiser' cpp_stuff.out >/dev/null 2>&1; then
 echo "Ah, yes!  The good old days!" >&4
```

```
 echo "However, in the good old days we don't know how to stringify and"
 echo "catify at the same time."
 cpp_stuff=1
else
 $cat >&4 <<EOM
Hmm, I don't seem to be able to concatenate
 tokens with your cpp.
You're going to have to edit the values of CAT[2-5] in config.h...
EOM
?X: It would be nice to have configure remind us at the end that some manual
?X: intervention is needed -- FIXME
 cpp_stuff="/* Help! How do we handle cpp_stuff? */*/"
fi
$rm -f cpp_stuff.*
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/cpp_stuff.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setlocale.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_setlocale.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  06:57:51  ram
?RCS: patch30: created
?RCS:
?MAKE:d_setlocale: Inlibc
?MAKE: -pick add $@ %<
?S:d_setlocale:
?S: This variable conditionally defines HAS_SETLOCALE if setlocale() is
?S: available to handle locale-specific ctype implementations.
?S:.
?C:HAS_SETLOCALE:
?C: This symbol, if defined, indicates that the setlocale
 routine is
?C: available to handle locale-specific ctype implementations.
?C:.
?H:#$d_setlocale HAS_SETLOCALE /**/
```

```
?H:.
?LINT:set d_setlocale
: see if setlocale exists
set setlocale d_setlocale
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setlocale.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_memcmp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memcmp.U,v $
?RCS: Revision 3.0.1.1  1993/09/13  16:02:35  ram
?RCS: patch10: removed text recommending bcmp over memcmp (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:33  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_memcmp: Inlibc
?MAKE: -pick add $@ %<
?S:d_memcmp:
?S: This variable conditionally defines the HAS_MEMCMP symbol, which
?S: indicates to the C program that the memcmp() routine is available
?S: to compare blocks of
 memory.
?S:.
?C:HAS_MEMCMP (MEMCMP):
?C: This symbol, if defined, indicates that the memcmp routine is available
?C: to compare blocks of memory.
?C:.
?H:#$d_memcmp HAS_MEMCMP /**/
?H:.
?LINT:set d_memcmp
: see if memcmp exists
set memcmp d_memcmp
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_memcmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtoll: Inlibc d_longlong Compile cat run
?MAKE: -pick add $@ %<
?S:d_strtoll:
?S: This variable conditionally defines the HAS_STRTOLL symbol, which
?S: indicates to the C program that the strtoll() routine is available.
?S:.
?C:HAS_STRTOLL:
?C: This symbol, if defined, indicates that the strtoll routine is
?C: available to convert strings to long longs.
?C:.
?H:#$d_strtoll HAS_STRTOLL  /**/
?H:.
?T:yyy
?F:!try
: see if strtoll exists
set strtoll d_strtoll
eval $inlibc

case "$d_longlong-$d_strtoll" in
"$define-$define")
 $cat <<EOM
Checking whether your strtoll() works okay...
EOM
 $cat >try.c <<'EOCP'
#include <errno.h>
#ifdef __hpux
#define strtoll __strtoll
#endif
#ifdef __EMX__
#define strtoll
 _strtoll
#endif
#include <stdio.h>
#include <stdlib.h>
static int bad = 0;
void check(const char *s, long long ell, int een) {
 long long gll;
```

```
 errno = 0;
 gll = strtoll(s, 0, 10);
 if (!((gll == ell) && (errno == een)))
  bad++;
}
int main() {
 check(" 1",                          1LL, 0);
 check(" 0",                          0LL, 0);
 check("-1",                         -1LL, 0);
 check("-9223372036854775808", -9223372036854775808LL, 0);
 check("-9223372036854775808", -9223372036854775808LL, 0);
 check(" 9223372036854775807",  9223372036854775807LL, 0);
 check("-9223372036854775808", -9223372036854775808LL, 0);
 check(" 9223372036854775808",  9223372036854775807LL, ERANGE);
 check("-9223372036854775809", -9223372036854775808LL, ERANGE);
 if (!bad)
  printf("ok\n");
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  ok) echo "Your strtoll() seems to be working okay." ;;
  *) cat <<EOM >&4
Your strtoll() doesn't seem
 to be working okay.
EOM
     d_strtoll="$undef"
     ;;
  esac
 else
  echo "(I can't seem to compile the test program--assuming it doesn't)"
  d_strtoll="$undef"
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_strtoll.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sem.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sem: test d_semctl d_semget d_semop Setvar Findhdr osname
?MAKE: -pick add $@ %<
?S:d_sem:
?S: This variable conditionally defines the HAS_SEM symbol, which
?S: indicates that the entire sem*(2) library is present.
?S:.
?C:HAS_SEM:
?C: This symbol, if defined, indicates that the entire sem*(2) library is
?C: supported.
?C:.
?H:#$d_sem HAS_SEM  /**/
?H:.
?T:h_sem
?LINT:set d_sem
:
 see how much of the 'sem*(2)' library is present.
h_sem=true
echo " "
case "$d_semctl$d_semget$d_semop" in
*"$undef"*) h_sem=false;;
esac
case "$osname" in
freebsd)
   case "`ipcs 2>&1`" in
   "SVID messages"*"not configured"*)
 echo "Your $osname does not have the sem*(2) configured." >&4
       h_sem=false
 val="$undef"
 set semctl d_semctl
 eval $setvar
 set semget d_semget
 eval $setvar
 set semop d_semop
 eval $setvar
 ;;
   esac
   ;;
esac
: we could also check for sys/ipc.h ...
```

```
if $h_sem && $test `./findhdr sys/sem.h`; then
 echo "You have the full sem*(2) library." >&4
 val="$define"
else
 echo "You don't have the full sem*(2) library." >&4
 val="$undef"
fi
set d_sem
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sem.U
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```
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?RCS:
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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fpclassl: Inlibc
?MAKE: -pick add $@ %<
?S:d_fpclassl:
?S: This variable conditionally defines the HAS_FPCLASSL symbol, which
?S: indicates to the C program that the fpclassl() routine is available.
?S:.
?C:HAS_FPCLASSL:
?C: This symbol, if defined, indicates that the fpclassl routine is
?C: available to classify long doubles.  Available for example in IRIX.
?C: The returned values are defined in <ieeefp.h> and are:
?C:
?C: FP_SNAN  signaling NaN
?C: FP_QNAN  quiet NaN
?C: FP_NINF  negative infinity
?C: FP_PINF  positive infinity
?C: FP_NDENORM negative denormalized non-zero
?C: FP_PDENORM positive denormalized non-zero
?C: FP_NZERO negative zero
?C: FP_PZERO positive zero
?C: FP_NNORM negative
 normalized non-zero
?C: FP_PNORM positive normalized non-zero
?C:.
?H:#$d_fpclassl HAS_FPCLASSL  /**/
?H:.
?LINT:set d_fpclassl
```

```
: see if fpclassl exists
set fpclassl d_fpclassl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fpclassl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: startperl.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:25:06  ram
?RCS: patch61: warn them if the #! line is too long for their OS
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:startperl: cat rm sharpbang perlpath d_portable Myread
?MAKE: -pick add $@ %<
?S:startperl:
?S: This variable contains the string to put on the front of a perl
?S: script to make sure (hopefully) that it runs with perl and not some
?S: shell. Of course, that
 leading line must be followed by the classical
?S: perl idiom:
?S:  eval 'exec perl -S $0 ${1+"$@"}'
?S:   if $running_under_some_shell;
?S: to guarantee perl startup should the shell execute the script. Note
?S: that this magic incantation is not understood by csh.
?S:.
?C:STARTPERL:
?C: This symbol is the string that should be put on the front of a
?C: perl script to make sure (hopefully) that it runs with perl and
?C: not under some shell. That line should be followed by the classical
?C: invocation magic:
?C:  eval 'exec perl -S $0 ${1+"$@"}'
?C:   if $running_under_some_shell;
?C: to guarantee perl startup should the shell execute the script at first.
?C:.
```

```
?H:#define STARTPERL "$startperl"
?H:.
?T:pdflt
?F:!xtry
: figure out how to guarantee perl startup
case "$sharpbang" in
*!)
?X:
?X: Make sure the #!$perlpath magic incantation indeed works on this
?X: system... It might not if the length of the #! hook is greater
?X: than some hardwired kernel limit. -- RAM, 15/03/96
?X:
 $cat
 >xtry <<EOP
#!$perlpath
system("exit 0");
EOP
 chmod a+x xtry
 if ./xtry >/dev/null 2>&1; then
  $cat <<EOH

I can use the #! construct to start perl on your system. This will make
startup of perl scripts faster, but may cause problems if you want to share
those scripts and perl is not in a standard place (/usr/bin/perl) on all your
platforms. The alternative is to force a shell by starting the script with a
single ':' character.

EOH
  pdflt=y
 else
  $cat <<EOH

I could use the #! construct to start perl on your system, but using
   #!$perlpath
would be too long for your kernel to grok. Indeed, most systems do
limit the size of the leading #! string to 32 characters.

EOH
  pdflt=n
 fi
 $rm -f xtry
 case "$startperl" in
 *!*) dflt=y;;
 ") case "$d_portable" in
  "$define") dflt=n;;
  *) dflt=$pdflt;;
  esac;;
 *) dflt=n;;
```

```
 esac
 rp='Shall I use #! to start up perl?'
 . ./myread
 case "$ans" in
 y*|Y*) startperl="#!$perlpath";;
 *) startperl=": # use perl";;
 esac;;
*) startperl=":
 # use perl";;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/startperl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: usedtrace.U,v $
?RCS:
?RCS: Copyright (c) 2008 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: usedtrace.U,v $
?RCS:
?MAKE:usedtrace dtrace: Myread Oldconfig Setvar Getfile test
?MAKE: -pick add $@ %<
?Y:TOP
?S:usedtrace:
?S: This variable indicates whether we are compiling with dtrace
?S: support. See also dtrace.
?S:.
?S:dtrace:
?S: This variable holds the location of the dtrace executable.
?S:.
?C:USE_DTRACE:
?C: This symbol, if defined, indicates that Perl should
?C: be built with support for DTrace.
?C:.
?H:#$usedtrace USE_DTRACE  /**/
?H:.
?T:dflt_dtrace
?LINT:set usedtrace
?LINT:set dtrace
: DTrace support
dflt_dtrace='/usr/sbin/dtrace'
$test -x /usr/bin/dtrace && dflt_dtrace='/usr/bin/dtrace'
```

```
cat <<EOM

Perl can be built to support DTrace on platforms that support
 it.
DTrace is a diagnosis and performance analysis tool from Sun.

If this doesn't make any sense to you, just accept the default.
EOM

while $test 1 ; do
 case "$usedtrace" in
 $define|true|[yY]*)
  dflt='y'
  ;;
 $undef|false|[nN]*)
  dflt='n'
  dflt_dtrace=""
  ;;
 ?*)
  dflt='y'
  dflt_dtrace=$usedtrace
  ;;
 *)
  dflt='n'
  ;;
 esac

 rp='Support DTrace if available?'
 . ./myread
 case "$ans" in
 y|Y) val="$define" ;;
 *)      val="$undef" ;;
 esac
 set usedtrace
 eval $setvar

 test "X$usedtrace" != "X$define" && break

 echo " "
 rp='Where is the dtrace executable?'
 dflt=$dflt_dtrace
 . ./getfile
 val="$ans"
 set dtrace
 eval $setvar

 if $test -f $dtrace
 then
```

```
  if $dtrace -h -s ../perldtrace.d \
   -o perldtrace.tmp >/dev/null 2>&1 \
   && rm -f perldtrace.tmp
  then
   echo " "
   echo "Good: your $dtrace knows about the -h flag."
  else
   cat >&2 <<EOM

*** $me:  Fatal Error:  $dtrace doesn't support -h flag
***
*** Your installed dtrace doesn't support the -h switch to
 compile a D
*** program into a C header. Can't continue.

EOM
   exit 1
  fi
  break;
 fi

 case "$fastread" in
 yes)
  cat >&2 <<EOM

*** $me:  Fatal Error:  $dtrace not found.
*** Can't continue.

EOM
  exit 1
  ;;
 *)
  echo "*** $dtrace was not found."
  echo " "
  ;;
 esac
done
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/usedtrace.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_round: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_round:
?S: This variable conditionally defines the HAS_ROUND symbol, which
?S: indicates to the C program that the round() routine is available.
?S:.
?C:HAS_ROUND:
?C: This symbol, if defined, indicates that the round routine is
?C: available to round to nearest integer, away from zero.
?C:.
?H:#$d_round HAS_ROUND  /**/
?H:.
?LINT:set d_round
: see if round exists
set round d_round
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_round.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ftrncate.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_ftrncate.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_ftrncate: Inlibc
?MAKE: -pick add $@ %<
?S:d_ftrncate (d_ftruncate):
?S: This variable conditionally defines the HAS_FTRUNCATE symbol, which
?S: indicates to the C program that the ftruncate() subroutine exists.
?S:.
?C:HAS_FTRUNCATE:
?C: This symbol, if defined, indicates that the ftruncate() subroutine
?C: exists.
?C:.
?H:#$d_ftrncate
 HAS_FTRUNCATE /**/
?H:.
?LINT:set d_ftrncate
```

```
: see if ftruncate exists
set ftruncate d_ftrncate
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_ftrncate.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_syssock.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_syssock.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:36  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_syssock: Inhdr
?MAKE: -pick add $@ %<
?S:i_syssock:
?S: This variable conditionally defines the I_SYS_SOCKET symbol, and indicates
?S: whether a C program should include <sys/socket.h> before performing socket
?S: operations.
?S:.
?C:I_SYS_SOCKET:
?C: This symbol, if defined, indicates to the C program that it should
?C: include
 <sys/socket.h> before performing socket calls.
?C:.
?H:#$i_syssock I_SYS_SOCKET  /**/
?H:.
?LINT:set i_syssock
: see if this is a sys/socket.h system
set sys/socket.h i_syssock
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_syssock.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getnbyad.U,v $
```

```
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getnbyaddr: Inlibc
?MAKE: -pick add $@ %<
?S:d_getnbyaddr:
?S: This variable conditionally defines the HAS_GETNETBYADDR symbol, which
?S: indicates to the C program that the getnetbyaddr() routine is available
?S: to look up networks by their IP addresses.
?S:.
?C:HAS_GETNETBYADDR:
?C: This symbol, if defined, indicates that the getnetbyaddr() routine is
?C: available to look up networks by their IP addresses.
?C:.
?H:#$d_getnbyaddr HAS_GETNETBYADDR  /**/
?H:.
?LINT:set d_getnbyaddr
: see if getnetbyaddr exists
set getnetbyaddr d_getnbyaddr
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_getnbyad.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Typedef.U,v 3.0.1.3 1995/07/25 13:42:07 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Typedef.U,v $
?RCS: Revision 3.0.1.3  1995/07/25  13:42:07  ram
?RCS: patch56: added backslash escapes within evals to prevent space problems
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:01:16  ram
?RCS: patch36: don't clobber visible 'val' variable, use 'varval' instead
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:05:14  ram
?RCS: patch32: created
```

```
?RCS:
?X:
?X: This unit checks for the definition of a given typedef.
?X:
?X: To use it, say:
?X: set typedef
 val_t default [includes]
?X: eval $typedef
?X:
?MAKE:Typedef: cppstdin cppminus cppflags rm sed contains Oldconfig Myread
?MAKE: -pick add $@ %<
?LINT:define typedef
?LINT:define typedef_ask
?V:typedef typedef_ask
?S:typedef:
?S: This shell variable is used internally by Configure to check
?S: whether a given typedef is defined or not. A typical use is:
?S:  set typedef val_t default [includes]
?S:  eval $typedef
?S: That will return val_t set to default if the typedef was not found,
?S: to typedef otherwise. If no includes are specified, look in sys/types.h.
?S:.
?S:typedef_ask:
?S: This shell variable is used internally by Configure to check
?S: whether a given typedef is defined or not.  If it is not defined,
?S: this will call the ./myread script to prompt for an answer.
?S: It is intended to be used to avoid unnecessary prompts.
?S: A typical use is
?S:  rp="What is the type for file position used by fsetpos()?"
?S:  set fpos_t fpostype long stdio.h sys/types.h
?S:  eval $typedef_ask
?S: This
 will set fpostype=fpos_t, if fpos_t is available.  Otherwise
?S: it will call myread with a default of 'long', and a prompt of $rp.
?S:.
?T:type var def inclist varval inc
?F:!temp.c
: define an is-a-typedef? function
typedef='type=$1; var=$2; def=$3; shift; shift; shift; inclist=$@;
case "$inclist" in
"") inclist="sys/types.h";;
esac;
eval "varval=\$$var";
case "$varval" in
"")
 $rm -f temp.c;
 for inc in $inclist; do
  echo "#include <$inc>" >>temp.c;
```

```
 done;
?X: Maybe it's a #define instead of a typedef.
 echo "#ifdef $type" >> temp.c;
 echo "printf(\"We have $type\");" >> temp.c;
 echo "#endif" >> temp.c;
 $cppstdin $cppflags $cppminus < temp.c >temp.E 2>/dev/null;
 if $contains $type temp.E >/dev/null 2>&1; then
  eval "$var=\$type";
 else
  eval "$var=\$def";
 fi;
 $rm -f temp.?;;
*) eval "$var=\$varval";;
esac'

?X: Originally, I eval'd $typedef and then checked the results against
?X: $type.  Unfortunately, it then became complicated to check
?X: whether you are re-using
 an old config.sh value, and the logic got
?X: so convoluted it became easier to just copy the function above
?X: and alter it slightly.  A.D.  3/1998
: define an is-a-typedef? function that prompts if the type is not available.
typedef_ask='type=$1; var=$2; def=$3; shift; shift; shift; inclist=$@;
case "$inclist" in
"") inclist="sys/types.h";;
esac;
eval "varval=\$$var";
case "$varval" in
"")
 $rm -f temp.c;
 for inc in $inclist; do
  echo "#include <$inc>" >>temp.c;
 done;
?X: Maybe it's a #define instead of a typedef.
 echo "#ifdef $type" >> temp.c;
 echo "printf(\"We have $type\");" >> temp.c;
 echo "#endif" >> temp.c;
 $cppstdin $cppflags $cppminus < temp.c >temp.E 2>/dev/null;
 echo " " ;
 echo "$rp" | $sed -e "s/What is/Looking for/" -e "s/?/./";
 if $contains $type temp.E >/dev/null 2>&1; then
  echo "$type found." >&4;
  eval "$var=\$type";
 else
  echo "$type NOT found." >&4;
  dflt="$def";
  . ./myread ;
  eval "$var=\$ans";
```

```
 fi;
 $rm -f temp.?;;
*) eval "$var=\$varval";;
esac'
```

Found
 in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/Typedef.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sizetype.U,v 3.0.1.1 1994/08/29 16:32:10 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: sizetype.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:32:10  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:sizetype: Myread Typedef
?MAKE: -pick add $@ %<
?S:sizetype:
?S: This variable defines sizetype to be something like size_t,
?S: unsigned long, or whatever type is used to declare length
?S: parameters for string functions.
?S:.
?C:Size_t:
?C: This symbol holds the type used
 to declare length parameters
?C: for string functions.  It is usually size_t, but may be
?C: unsigned long, int, etc.  It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Size_t $sizetype  /* length parameter for string functions */
?H:.
?LINT: set sizetype
: see what type is used for size_t
rp="What is the type used for the length parameter for string functions?"
set size_t sizetype 'unsigned int' stdio.h sys/types.h
eval $typedef_ask
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/sizetype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorprefix.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorprefix.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:usevendorprefix vendorprefix vendorprefixexp +oldvendorprefix: \
 Getfile Loc Oldconfig cat prefix Myread
?MAKE: -pick add $@ %<
?S:usevendorprefix:
?S: This variable tells whether the vendorprefix
?S: and consequently other vendor* paths are in use.
?S:.
?S:vendorprefix:
?S: This variable holds the full absolute path of the directory below
?S: which
 the vendor will install add-on packages.
?S: See INSTALL for usage and examples.
?S:.
?S:vendorprefixexp:
?S: This variable holds the full absolute path of the directory below
?S: which the vendor will install add-on packages.  Derived from vendorprefix.
?S:.
?S:oldvendorprefix:
?S: This variable is set non-null if the vendorprefix was previously defined
?S: and gets set to a new value. Used internally by Configure only.
?S:.
: Set the vendorprefix variables
$cat <<EOM

The installation process will also create a directory for
vendor-supplied add-ons.  Vendors who supply perl with their system
may find it convenient to place all vendor-supplied files in this
directory rather than in the main distribution directory.  This will
```

```
ease upgrades between binary-compatible maintenance versions of perl.

Of course you may also use these directories in whatever way you see
fit.  For example, you might use them to access modules shared over a
company-wide network.

The default answer should be
 fine for most people.
This causes further questions about vendor add-ons to be skipped
and no vendor-specific directories will be configured for perl.

EOM
rp='Do you want to configure vendor-specific add-on directories?'
case "$usevendorprefix" in
define|true|[yY]*) dflt=y ;;
*) : User may have set vendorprefix directly on Configure command line.
 case "$vendorprefix" in
 "|' ') dflt=n ;;
 *) dflt=y ;;
 esac
 ;;
esac
. ./myread
case "$ans" in
[yY]*) fn=d~+
 rp='Installation prefix to use for vendor-supplied add-ons?'
 case "$vendorprefix" in
 ") dflt="$prefix" ;;
 *)  dflt=$vendorprefix ;;
 esac
 . ./getfile
 : XXX Prefixit unit does not yet support siteprefix and vendorprefix
 oldvendorprefix="
 case "$vendorprefix" in
 ") ;;
 *) case "$ans" in
  "$prefix") ;;
  *) oldvendorprefix="$prefix";;
  esac
  ;;
 esac
 usevendorprefix="$define"
 vendorprefix="$ans"
 vendorprefixexp="$ansexp"
 ;;
*) usevendorprefix="$undef"
 vendorprefix="
 vendorprefixexp="
```

```
 ;;
esac
```

Found in path(s):
*
/opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/vendorprefix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_arpainet.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_arpainet.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_arpainet: Inhdr
?MAKE: -pick add $@ %<
?S:i_arpainet:
?S: This variable conditionally defines the I_ARPA_INET symbol,
?S: and indicates whether a C program should include <arpa/inet.h>.
?S:.
?C:I_ARPA_INET:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <arpa/inet.h> to get inet_addr and friends
 declarations.
?C:.
?H:#$i_arpainet I_ARPA_INET  /**/
?H:.
?LINT:set i_arpainet
: see if arpa/inet.h has to be included
set arpa/inet.h i_arpainet
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_arpainet.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ckeypad.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_ckeypad.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_ckeypad: cat cc termlib Setvar
?MAKE: -pick add $@ %<
?S:d_ckeypad:
?S: This variable controls the definition of HAS_CURSES_KEYPAD,
?S: which tells the application that the keypad() curses function
?S: is available.
?S:.
?C:HAS_CURSES_KEYPAD:
?C: This symbol indicates the availability of the keypad() function
?C: of the curses library.
?C:.
?H:#$d_ckeypad
 HAS_CURSES_KEYPAD /**/
?H:.
?LINT:set d_ckeypad
: check for the "keypad()" function in the curses library
echo " "
case "$termlib" in
")
 echo "You don't have a curses library, so I won't waste time looking" >&4
 echo "to see if has the keypad() function." >&4
*)
echo "Checking the curses library ($termlib) for the keypad() function..." >&4
 $cat >c_keypad.c <<'EOCP'
#include <curses.h>
int main() {
 keypad(stdscr, TRUE);
 exit(0);
}
EOCP
 if $cc c_keypad.c >c_keypad.out 2>&1 ; then
  val=$define
  echo "It appears to have the keypad() function."
 else
  val=$undef
  echo "Your curses library doesn't appear to have the keypad() function."
```

```
 fi
esac
set d_ckeypad
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_ckeypad.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:usemorebits: Setvar
?MAKE: -pick add $@ %<
?Y:TOP
?S:usemorebits:
?S: This variable conditionally defines the USE_MORE_BITS symbol,
?S: and indicates that explicit 64-bit interfaces and long doubles
?S: should be used when available.
?S:.
?C:USE_MORE_BITS:
?C: This symbol, if defined, indicates that 64-bit interfaces and
?C: long doubles should be used when available.
?C:.
?H:?%<:#ifndef USE_MORE_BITS
?H:?%<:#$usemorebits USE_MORE_BITS  /**/
?H:?%<:#endif
?H:.
?LINT:extern use64bitint
?LINT:change use64bitint
?LINT:extern uselongdouble
?LINT:change uselongdouble
: Check if morebits is requested
case "$usemorebits" in
"$define"|true|[yY]*)
 use64bitint="$define"
 uselongdouble="$define"
 usemorebits="$define"
 ;;
*) usemorebits="$undef"
 ;;
esac
```

Found
 in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/usemorebits.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethbynm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_gethbynm.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_gethbyname: Inlibc
?MAKE: -pick add $@ %<
?S:d_gethbyname (d_gethbynm d_gethhstby):
?S: This variable conditionally defines the HAS_GETHOSTBYNAME symbol, which
?S: indicates to the C program that the gethostbyname() routine is available
?S: to look up host names in some data base or other.
?S:.
?C:HAS_GETHOSTBYNAME (GETHOSTBYNAME):
?C: This
 symbol, if defined, indicates that the gethostbyname() routine is
?C: available to look up host names in some data base or other.
?C:.
?H:#$d_gethbyname HAS_GETHOSTBYNAME  /**/
?H:.
?LINT:set d_gethbyname
: see if gethostbyname exists
set gethostbyname d_gethbyname
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_gethbynm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fpgetround: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_fpgetround:
?S: This variable conditionally defines HAS_FPGETROUND if fpgetround()
?S: is available to get the floating point rounding mode.
?S:.
?C:HAS_FPGETROUND:
?C: This symbol, if defined, indicates that the fpgetround routine is
?C: available to get the floating point rounding mode.
?C:.
?H:#$d_fpgetround HAS_FPGETROUND  /**/
?H:.
?LINT:set d_fpgetround
: see if fpgetround exists
set fpgetround d_fpgetround
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fpgetround.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: mkdep.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: mkdep.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  16:13:07  ram
?RCS: patch61: replaced .o with $_o all over the place
?RCS:
?RCS: Revision 3.0.1.3  1994/10/29  16:25:02  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:15:12  ram
?RCS: patch16: cppflags is now an optional dependency
?RCS:
?RCS: Revision 3.0.1.1  1993/12/15  08:22:39  ram
?RCS: patch15: force zero exit status in all mkdep scripts
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:09:16  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?X:
?X: This unit generates the script 'mkdep' in the top-level directory.
?X: It is up to the makefile to use it for automatic dependencies
?X: generation (usage: 'mkdep [cppflags] -- *.c').
?X:
?MAKE:mkdep: spitshell startsh cpp +cppflags grep contains rm sed sort uniq \
 Getfile Oldconfig eunicefix cat +cc cppminus test pkgsrc _o
?MAKE: -pick add $@ %<
?S:mkdep:
?S: This variable holds the name of a command to generate makefile
?S: dependencies on the standard output. It is the pathname of the
?S: generated mkdep script.
?S:.
?F:mkdep
?T:IFS arg flags takeflags srcfile toplev filebase inc dir files file dep c
: find out how to generate dependencies
echo " "
echo "Checking how to generate makefile dependencies on your machine..." >&4
?X: We are in the UU directory
toplev=`cd ..;pwd`
$cat >dep.c <<'EOCP'
#include "dep.h"
EOCP
?X: Empty dep.h causes RIOS to barf
$cat >dep.h <<'EOCP'

EOCP
takeflags='flags=""
case
 "$@" in
*--*)
 for arg
 do
  shift
  case "$arg" in
  --) break;;
  *) flags="$flags $arg";;
  esac
 done;;
esac'
case "$mkdep" in
")
 ;;
*)
 if test -f "$mkdep" &&
  $mkdep dep.c >dep.out 2>/dev/null &&
  $contains "dep$_o:.*dep\.h" dep.out >/dev/null 2>&1
 then
```

```
  echo "$mkdep works."
?X: If they copied a config.sh from some other place, they'll have a working
?X: mkdep script probably, but not located at the top of the sources.  And
?X: the Makefiles generated by jmake expect an mkdep script in the top dir.
  case "$mkdep" in
  "$pkgsrc/mkdep");;
  *) echo "(copying it to $pkgsrc)"
   cp $mkdep $pkgsrc/mkdep 2>/dev/null
      if $pkgsrc/mkdep dep.c >dep.out 2>/dev/null &&
    $contains "dep$_o:.*dep\.h" dep.out >/dev/null 2>&1; then
    mkdep=$pkgsrc/mkdep
   else
    echo "Hmm... The copy failed or something... Guessing again..."
    mkdep=
   fi
   ;;
  esac
 else
  mkdep=
 fi
esac

case "$mkdep" in
")
?X: have to figure something out: Try cpp
?X: have
 to pass source names one by one to cpp...
 $spitshell > ../mkdep <<EOM
$startsh
$takeflags
for srcfile
do
 $cpp -M $cppflags \$flags \$srcfile 2>/dev/null
done
exit 0
EOM
 mkdep=$toplev/mkdep
 chmod +x $mkdep
 $eunicefix $mkdep
 if $mkdep dep.c >dep.out 2>/dev/null &&
  $contains "dep$_o:.*dep\.h" dep.out >/dev/null 2>&1
 then
  echo "Looks like we can use $cpp -M."
 else
  mkdep=
 fi
 ;;
esac
```

```
case "$mkdep" in
")
?X: have to figure something out: on NeXT, use cc -MM
?X: have to pass source names one by one to cc...
 $spitshell > ../mkdep <<EOM
$startsh
$takeflags
for srcfile
do
 $cc -MM $cppflags \$flags \$srcfile 2>/dev/null
done
exit 0
EOM
 mkdep=$toplev/mkdep
 chmod +x $mkdep
 $eunicefix $mkdep
 if $mkdep dep.c >dep.out 2>/dev/null &&
  $contains "dep$_o: dep.h" dep.out >/dev/null 2>&1
 then
  echo "Looks like we can use $cc -MM."
 else
  mkdep=
 fi
 ;;
esac

case "$mkdep" in
")
?X: still no luck -- try something fancier.
 $spitshell >../mkdep <<EOS
$startsh
$takeflags
for srcfile
do
 case
 "\$srcfile" in
 *.c) c='.c';;
 *.y) c='.y';;
 *.l) c='.l';;
 esac
 filebase=\`basename \$srcfile \$c\`
 <\$srcfile $cpp $cppminus $cppflags \$flags 2>/dev/null | \\
 $sed -e '/^# *[0-9]/!d' \\
  -e 's/^.*"\(.*\)".*\$/"\$filebase'$_o: \1/' \\
  -e 's|: \./|: |' \\
  -e 's|: *$|: "\$srcfile"|' | \\
 $grep -v '^#' | $sort | $uniq
```

```
done
exit 0
EOS
 mkdep=$toplev/mkdep
 chmod +x $mkdep
 $eunicefix $mkdep
 if $mkdep dep.c >dep.out 2>/dev/null &&
  $contains "dep$_o:.*dep\.h" dep.out >/dev/null 2>&1
 then
  echo "A shell script using $cpp does the trick."
 else
  echo "$cpp doesn't seem to be any use at all."
  $spitshell >../mkdep <<EOS
$startsh
$takeflags
files="\$@"
set X \$flags
shift
inc='.'
while test \$# -gt 0
do
 case "\$1" in
 -I)
  shift
  inc="\$inc:\$1"
  ;;
 -I*)
  dir=\`echo \$1 | sed -e 's/^-I//'\`
  inc="\$inc:\$dir"
  ;;
 esac
 shift
done
set X \$files
shift
trap "$rm -f /tmp/mkdep\$\$; exit 1" 1 2 3 15
for srcfile
do
 case "\$srcfile" in
 *.c) c='.c';;
 *.y) c='.y';;
 *.l)
 c='.l';;
 esac
 filebase=\`basename \$srcfile \$c\`
 echo \$filebase$_o: \$srcfile
 $grep '^#[  ]*include' \$srcfile /dev/null | \
 $sed -n -e 's/#[   ]*include[  ]*//' \\
```

```
  -e '/<\(.*\)>/ d' \\
  -e 's/:[^"]*"\([^"]*\)".*/: \1/' \\
  -e "s/\\.c:/$_o:/p" > /tmp/mkdep\$\$
?X: Deal with directories specified via -I requests to locate files
 IFS=': '
 while read file dep; do
  for dir in \$inc; do
   if $test -f "\$dir/\$dep"; then
    dep="\$dir/\$dep"
    break
   fi
  done
  echo "\$file: \$dep" | $sed -e 's,: \./,: ,'
 done </tmp/mkdep\$\$
 IFS=' '
 $rm -f /tmp/mkdep\$\$
done
exit 0
EOS
  mkdep=$toplev/mkdep
  chmod +x $mkdep
  $eunicefix $mkdep
  if $mkdep dep.c >dep.out 2>/dev/null &&
   $contains "dep$_o:.*dep\.h" dep.out >/dev/null 2>&1
  then
   cat << EOM

I can use a script with grep instead, but it will make some incorrect
dependencies, since it doesn't understand about conditional compilation.
Moreover, some dependencies may be missing, because scanning won't be
a
 recursive process.
If you have a program which generates makefile dependencies, you may want
to use it.  If not, you can use the script and edit the Makefile by hand
if you need to.
EOM
  else
   mkdep=
   cat << EOM

I can't seem to generate makefile dependencies at all!  Perhaps you have a
program that does?  If you don't, you might look at the mkdep script to
see if you can create one which works.
EOM
  fi
 fi
esac
echo " "
```

```
dflt="$mkdep"
fn=f~/
rp="Name of program to make makefile dependencies?"
. ./getfile
mkdep="$ans"
$rm -f dep.c dep.h dep$_o dep.out
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/mkdep.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getnetent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getnetent_r getnetent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getnetent_r:
?S: This variable conditionally defines the HAS_GETNETENT_R symbol,
?S: which indicates to the C program that the getnetent_r()
?S: routine is available.
?S:.
?S:getnetent_r_proto:
?S: This variable encodes the prototype of getnetent_r.
?S: It is zero if d_getnetent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getnetent_r
?S: is defined.
?S:.
?C:HAS_GETNETENT_R:
?C: This symbol, if defined, indicates that the getnetent_r routine
?C: is
 available to getnetent re-entrantly.
?C:.
?C:GETNETENT_R_PROTO:
?C: This symbol encodes the prototype of getnetent_r.
?C: It is zero if d_getnetent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getnetent_r
?C: is defined.
?C:.
?H:#$d_getnetent_r HAS_GETNETENT_R /**/
?H:#define GETNETENT_R_PROTO $getnetent_r_proto /**/
?H:.
```

```
?T:try hdrs d_getnetent_r_proto
: see if getnetent_r exists
set getnetent_r d_getnetent_r
eval $inlibc
case "$d_getnetent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getnetent_r_proto:$usethreads" in
 ":define") d_getnetent_r_proto=define
  set d_getnetent_r_proto getnetent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getnetent_r_proto" in
 define)
 case "$getnetent_r_proto" in
 "|0) try='int getnetent_r(struct netent*, char*, size_t, struct netent**, int*);'
 ./protochk "$extern_C $try" $hdrs && getnetent_r_proto=I_SBWRE ;;
 esac
 case "$getnetent_r_proto" in
 "|0) try='int getnetent_r(struct
 netent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && getnetent_r_proto=I_SBIE ;;
 esac
 case "$getnetent_r_proto" in
 "|0) try='struct netent* getnetent_r(struct netent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && getnetent_r_proto=S_SBIE ;;
 esac
 case "$getnetent_r_proto" in
 "|0) try='struct netent* getnetent_r(struct netent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getnetent_r_proto=S_SBI ;;
 esac
 case "$getnetent_r_proto" in
 "|0) try='int getnetent_r(struct netent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getnetent_r_proto=I_SBI ;;
 esac
 case "$getnetent_r_proto" in
 "|0) try='int getnetent_r(struct netent*, struct netent_data*);'
 ./protochk "$extern_C $try" $hdrs && getnetent_r_proto=I_SD ;;
 esac
 case "$getnetent_r_proto" in
 "|0) d_getnetent_r=undef
  getnetent_r_proto=0
  echo "Disabling getnetent_r, cannot determine prototype." >&4 ;;
 * ) case "$getnetent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getnetent_r_proto="REENTRANT_PROTO_$getnetent_r_proto"
```

```
 ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getnetent_r has no prototype, not using it." >&4 ;;
  esac
  d_getnetent_r=undef
  getnetent_r_proto=0
  ;;
 esac
 ;;
*) getnetent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getnetent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_pthread_attr_setscope: Inlibc
?MAKE: -pick add $@ %<
?S:d_pthread_attr_setscope:
?S: This variable conditionally defines HAS_PTHREAD_ATTR_SETSCOPE if
?S: pthread_attr_setscope() is available to set the contention scope
?S: attribute of a thread attribute object.
?S:.
?C:HAS_PTHREAD_ATTR_SETSCOPE:
?C: This symbol, if defined, indicates that the pthread_attr_setscope
?C: system call is available to set the contention scope attribute of
?C: a thread attribute object.
?C:.
?H:#$d_pthread_attr_setscope HAS_PTHREAD_ATTR_SETSCOPE  /**/
?H:.
?LINT:set
```

```
 d_pthread_attr_setscope
: see if pthread_attr_setscope exists
set pthread_attr_setscope d_pthread_attr_setscope
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_pthread_attr_ss.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endhent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_endhent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_endhent: Inlibc
?MAKE: -pick add $@ %<
?S:d_endhent:
?S: This variable conditionally defines HAS_ENDHOSTENT if endhostent() is
?S: available to close whatever was being used for host queries.
?S:.
?C:HAS_ENDHOSTENT:
?C: This symbol, if defined, indicates that the endhostent() routine is
?C: available to close whatever was being used for host
 queries.
?C:.
?H:#$d_endhent HAS_ENDHOSTENT  /**/
?H:.
?LINT:set d_endhent
: see if endhostent exists
set endhostent d_endhent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_endhent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
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?RCS:
?RCS: Tye McQueen <tye@metronet.com> added safe setuid script checks.
?RCS:
?RCS: $Log: d_dosuid.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:33:03  ram
?RCS: patch61: moved unit to TOP via a ?Y: layout directive
?RCS: patch61: tell them /dev/fd is not about floppy disks
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:12:08  ram
?RCS: patch36: added checks for secure setuid scripts (Tye McQueen)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_dosuid
 d_suidsafe: cat contains ls rm test Myread Setvar \
 Oldconfig Guess package hint
?MAKE: -pick add $@ %<
?S:d_suidsafe:
?S: This variable conditionally defines SETUID_SCRIPTS_ARE_SECURE_NOW
?S: if setuid scripts can be secure.  This test looks in /dev/fd/.
?S:.
?S:d_dosuid:
?S: This variable conditionally defines the symbol DOSUID, which
?S: tells the C program that it should insert setuid emulation code
?S: on hosts which have setuid #! scripts disabled.
?S:.
?C:SETUID_SCRIPTS_ARE_SECURE_NOW:
?C: This symbol, if defined, indicates that the bug that prevents
?C: setuid scripts from being secure is not present in this kernel.
?C:.
?C:DOSUID:
?C: This symbol, if defined, indicates that the C program should
?C: check the script that it is executing for setuid/setgid bits, and
?C: attempt to emulate setuid/setgid on systems that have disabled
?C: setuid #! scripts because the kernel can't do it securely.
?C: It is up to the package designer to make sure that this emulation
?C: is done securely.
  Among other things, it should do an fstat on
?C: the script it just opened to make sure it really is a setuid/setgid
```

```
?C: script, it should make sure the arguments passed correspond exactly
?C: to the argument on the #! line, and it should not trust any
?C: subprocesses to which it must pass the filename rather than the
?C: file descriptor of the script to be executed.
?C:.
?H:#$d_suidsafe SETUID_SCRIPTS_ARE_SECURE_NOW /**/
?H:#$d_dosuid DOSUID  /**/
?H:.
?Y:TOP
?F:!reflect
?LINT: set d_suidsafe
?LINT: set d_dosuid
: see if setuid scripts can be secure
$cat <<EOM

Some kernels have a bug that prevents setuid #! scripts from being
secure.  Some sites have disabled setuid #! scripts because of this.

First let's decide if your kernel supports secure setuid #! scripts.
(If setuid #! scripts would be secure but have been disabled anyway,
don't say that they are secure if asked.)

EOM

val="$undef"
if $test -d /dev/fd; then
 echo "#!$ls" >reflect
 chmod +x,u+s reflect
 ./reflect >flect
 2>&1
 if $contains "/dev/fd" flect >/dev/null; then
  echo "Congratulations, your kernel has secure setuid scripts!" >&4
  val="$define"
 else
  $cat <<EOM
If you are not sure if they are secure, I can check but I'll need a
username and password different from the one you are using right now.
If you don't have such a username or don't want me to test, simply
enter 'none'.

EOM
  rp='Other username to test security of setuid scripts with?'
  dflt='none'
  . ./myread
  case "$ans" in
  n|none)
   case "$d_suidsafe" in
   ") echo "I'll assume setuid scripts are *not* secure." >&4
```

```
    dflt=n;;
   "$undef")
    echo "Well, the $hint value is *not* secure." >&4
    dflt=n;;
   *) echo "Well, the $hint value *is* secure." >&4
    dflt=y;;
   esac
   ;;
  *)
   $rm -f reflect flect
   echo "#!$ls" >reflect
   chmod +x,u+s reflect
   echo >flect
   chmod a+w flect
   echo '"su" will (probably) prompt you for "$ans's password."
   su $ans -c './reflect >flect'
   if $contains "/dev/fd" flect
 >/dev/null; then
    echo "Okay, it looks like setuid scripts are secure." >&4
    dflt=y
   else
    echo "I don't think setuid scripts are secure." >&4
    dflt=n
   fi
   ;;
  esac
  rp='Does your kernel have *secure* setuid scripts?'
  . ./myread
  case "$ans" in
  [yY]*) val="$define";;
  *) val="$undef";;
  esac
 fi
else
 echo "I don't think setuid scripts are secure (no /dev/fd directory)." >&4
 echo "(That's for file descriptors, not floppy disks.)"
 val="$undef"
fi
set d_suidsafe
eval $setvar

$rm -f reflect flect

: now see if they want to do setuid emulation
echo " "
val="$undef"
case "$d_suidsafe" in
"$define")
```

```
 val="$undef"
 echo "No need to emulate SUID scripts since they are secure here." >& 4
 ;;
*)
 $cat <<EOM
Some systems have disabled setuid scripts, especially systems where
setuid scripts cannot be secure.  On systems where setuid scripts have
been disabled, the setuid/setgid bits on scripts are currently
useless.  It is possible for $package to detect those bits
 and emulate
setuid/setgid in a secure fashion.  This emulation will only work if
setuid scripts have been disabled in your kernel.

EOM
 case "$d_dosuid" in
 "$define") dflt=y ;;
 *) dflt=n ;;
 esac
 rp="Do you want to do setuid/setgid emulation?"
 . ./myread
 case "$ans" in
 [yY]*) val="$define";;
 *) val="$undef";;
 esac
 ;;
esac
set d_dosuid
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_dosuid.U
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```
?RCS: $Id: fpu.U,v 3.0 1993/08/18 12:08:10 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: fpu.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:10  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?LINT: empty
?X:?MAKE:fpu: test cat cc Myread
?X:?MAKE: -pick add $@ %<
?X:?S:fpu (fpunit):
?X:?S: Set to be the compile flag for the local floating point unit.
?X:?S:.
?X:?C:FPU (FPUNIT):
?X:?C: String containing the flags for the local floating point unit.
?X:?C:.
?X:?H:#define FPU "$fpu" /**/
?X:?H:.
?X:: see what floating point compile flags should be used.
?X:fpu="
?X:if
 $test -r /dev/fpa; then
?X: $cat>fpa.c << GOOP
?X: main(){return(1);}
?X:GOOP
?X: $cc -ffpa -o fpa fpa.c
?X: fpa > fpa.out 2>&1
?X: if $test ! -s fpa.out; then
?X:  dflt='y'
?X:  $cat <<'EOM'
?X:
?X:You seem to have a sun fpa...  I can compile the code to use the fpa but it will
?X:mean that the code can ONLY run on a machine with a fpa...
?X:
?X:EOM
?X:  rp="Should I compile for fpa?"
?X:  . ./myread
?X:  if $test $ans = "n"; then
?X:   fpu="
?X:  else
?X:   fpu='-ffpa'
?X:  fi
?X: else
?X:  $cat <<'EOM'
?X:
?X:You have the fpa device but I can't seem to use it.  Maybe you should talk to
?X:your sysadmin about this.  For now, I am not going to compile it in.
?X:
?X:EOM
?X: fi
?X:fi
?X:if $test "$fpu" = ''; then
?X: if $test -r /usr/etc/mc68881version; then
?X:  dflt='y'
?X:  $cat <<'EOM'
```

```
?X:
?X:There also seems to be the pieces for a 68881.  If I compile this in, it will
?X:work on almost all Sun 3's except for a few Sun-3/50s without a 68881...
?X:
?X:EOM
?X:  rp="Should
 I compile for a 68881?"
?X:  . ./myread
?X:  if $test $ans = "y"; then
?X:   fpu='-f68881'
?X:  fi
?X: fi
?X:fi
?X:
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/nullified/fpu.U
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```
?RCS: $Id: d_setrgid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setrgid.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setrgid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setrgid:
?S: This variable conditionally defines the HAS_SETRGID symbol, which
?S: indicates to the C program that the setrgid() routine is available
?S: to change the real gid of the current program.
?S:.
?C:HAS_SETRGID (SETRGID):
?C: This symbol, if defined, indicates that the setrgid
 routine is available
?C: to change the real gid of the current program.
?C:.
?H:#$d_setrgid HAS_SETRGID  /**/
?H:.
```

```
?LINT:set d_setrgid
: see if setrgid exists
set setrgid d_setrgid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setrgid.U
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```
?RCS: $Id: d_setpgrp2.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setpgrp2.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:10  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setpgrp2: Inlibc
?MAKE: -pick add $@ %<
?S:d_setpgrp2:
?S: This variable conditionally defines the HAS_SETPGRP2 symbol, which
?S: indicates to the C program that the setpgrp2() (as in DG/UX) routine
?S: is available to set the current process group.
?S:.
?C:HAS_SETPGRP2 (SETPGRP2):
?C: This symbol, if defined, indicates that the
 setpgrp2() (as in DG/UX)
?C: routine is available to set the current process group.
?C:.
?H:#$d_setpgrp2 HAS_SETPGRP2  /**/
?H:.
?LINT:set d_setpgrp2
: see if setpgrp2 exists
set setpgrp2 d_setpgrp2
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setpgrp2.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS:
?MAKE:d_cplusplus: Compile Setvar run cat rm_try
?MAKE: -pick add $@ %<
?S:d_cplusplus (d_cplusplus.U):
?S: This variable conditionally defines the USE_CPLUSPLUS symbol, which
?S: indicates that a C++ compiler was used to compiled Perl and will be
?S: used to compile extensions.
?S:.
?C:USE_CPLUSPLUS:
?C: This symbol, if defined, indicates that a C++ compiler was
?C: used to compiled Perl and will be used to compile extensions.
?C:.
?H:#$d_cplusplus USE_CPLUSPLUS  /**/
?H:.
?F:!try
?LINT:set d_cplusplus
: Check if we are using C++
echo " "
echo "Checking for C++..." >&4
$cat >try.c <<'EOCP'
#include <stdio.h>
int main(void)
{
#ifdef __cplusplus
   return 0;
#else
   return 1;
#endif
}
EOCP
set try
if eval $compile_ok
 && $run ./try; then
 val="$define"
 echo "You are using a C++ compiler."
else
 val="$undef"
 echo "You are not using a C++ compiler."
fi
$rm_try cplusplus$$
set d_cplusplus
eval $setvar
```

Found in path(s):

* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_cplusplus.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_seteuid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_seteuid.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_seteuid: Inlibc
?MAKE: -pick add $@ %<
?S:d_seteuid:
?S: This variable conditionally defines the HAS_SETEUID symbol, which
?S: indicates to the C program that the seteuid() routine is available
?S: to change the effective uid of the current program.
?S:.
?C:HAS_SETEUID (SETEUID):
?C: This symbol, if defined, indicates that the seteuid
 routine is available
?C: to change the effective uid of the current program.
?C:.
?H:#$d_seteuid HAS_SETEUID  /**/
?H:.
?LINT:set d_seteuid
: see if seteuid exists
set seteuid d_seteuid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_seteuid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethostprotos.U,v $
?RCS:
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```

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_gethostprotos : Hasproto i_netdb
?MAKE: -pick add $@ %<
?S:d_gethostprotos:
?S: This variable conditionally defines the HAS_GETHOST_PROTOS symbol,
?S: which indicates to the C program that <netdb.h> supplies
?S: prototypes for the various gethost*() functions.
?S: See also netdbtype.U for probing for various netdb types.
?S:.
?C:HAS_GETHOST_PROTOS:
?C: This symbol, if defined, indicates that <netdb.h> includes
?C: prototypes for gethostent(), gethostbyname(), and
?C: gethostbyaddr().  Otherwise,
 it is up to the program to guess
?C: them.  See netdbtype.U for probing for various Netdb_xxx_t types.
?C:.
?H:#$d_gethostprotos HAS_GETHOST_PROTOS /**/
?H:.
?LINT:set d_gethostprotos
?X: This test actually only checks for gethostent() and assumes the
?X: others follow suit.  This test fails for ChorusOS, which has
?X: gethostbyname and gethostbyaddr, but not gethostent.
: see if prototypes for various gethostxxx netdb.h functions are available
echo " "
set d_gethostprotos gethostent $i_netdb netdb.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/d_gethostprotos.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: baserev.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: baserev.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:24  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?MAKE:baserev: Null
?MAKE: -pick wipe $@ %<
?S:baserev:
?S: The base revision level of this package, from the .package file.
?S:.
: set the base revision
baserev=<BASEREV>
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/baserev.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: prototype.U,v 3.0.1.3 1994/05/06 15:11:49 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: prototype.U,v $
?RCS: Revision 3.0.1.3  1994/05/06  15:11:49  ram
?RCS: patch23: ensure cc flags used when looking for prototype support
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:15:36  ram
?RCS: patch16: prototype handling macros now appear only when needed
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:03:12  ram
?RCS: patch6: defines were referring to non-existent VOID symbol
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:36  ram
?RCS: Baseline for dist
 3.0 netwide release.
?RCS:
?MAKE:prototype: Nothing
?S:prototype:
?S: This variable holds the eventual value of CAN_PROTOTYPE, which
?S: indicates the C compiler can handle function prototypes.
?S:.
: stub, never used
prototype=nothing
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/U/modified/prototype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_srand48_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_srand48_r srand48_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_stdlib extern_C
?MAKE: -pick add $@ %<
?S:d_srand48_r:
?S: This variable conditionally defines the HAS_SRAND48_R symbol,
?S: which indicates to the C program that the srand48_r()
?S: routine is available.
?S:.
?S:srand48_r_proto:
?S: This variable encodes the prototype of srand48_r.
?S: It is zero if d_srand48_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_srand48_r
?S: is defined.
?S:.
?C:HAS_SRAND48_R:
?C: This symbol, if defined, indicates that the srand48_r routine
?C: is available to srand48 re-entrantly.
?C:.
?C:SRAND48_R_PROTO:
?C: This
 symbol encodes the prototype of srand48_r.
?C: It is zero if d_srand48_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_srand48_r
?C: is defined.
?C:.
?H:#$d_srand48_r HAS_SRAND48_R /**/
?H:#define SRAND48_R_PROTO $srand48_r_proto /**/
?H:.
?T:try hdrs d_srand48_r_proto
: see if srand48_r exists
set srand48_r d_srand48_r
eval $inlibc
case "$d_srand48_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_stdlib stdlib.h"
 case "$d_srand48_r_proto:$usethreads" in
 ":define") d_srand48_r_proto=define
```

```
 set d_srand48_r_proto srand48_r $hdrs
 eval $hasproto ;;
*) ;;
esac
case "$d_srand48_r_proto" in
define)
case "$srand48_r_proto" in
"|0) try='int srand48_r(long, struct drand48_data*);'
./protochk "$extern_C $try" $hdrs && srand48_r_proto=I_LS ;;
esac
case "$srand48_r_proto" in
"|0) d_srand48_r=undef
 srand48_r_proto=0
 echo "Disabling srand48_r, cannot determine prototype." >&4 ;;
* ) case
"$srand48_r_proto" in
 REENTRANT_PROTO*) ;;
 *) srand48_r_proto="REENTRANT_PROTO_$srand48_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "srand48_r has no prototype, not using it." >&4 ;;
 esac
 d_srand48_r=undef
 srand48_r_proto=0
 ;;
esac
;;
*) srand48_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_srand48_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pthread_y.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_pthread_yield sched_yield d_sched_yield: \
 Compile Setvar cat rm_try usethreads
```

```
?MAKE: -pick add $@ %<
?S:d_pthread_yield:
?S: This variable conditionally defines the HAS_PTHREAD_YIELD
?S: symbol if the pthread_yield routine is available to yield
?S: the execution of the current thread.
?S:.
?S:sched_yield:
?S: This variable defines the way to yield the execution
?S: of the current thread.
?S:.
?S:d_sched_yield:
?S: This variable conditionally defines the HAS_SCHED_YIELD
?S: symbol if the sched_yield routine is available to yield
?S: the execution of the current thread.
?S:.
?C:HAS_PTHREAD_YIELD:
?C: This symbol, if defined, indicates that the pthread_yield
?C: routine is available
 to yield the execution of the current
?C: thread.  sched_yield is preferable to pthread_yield.
?C:.
?C:SCHED_YIELD:
?C: This symbol defines the way to yield the execution of
?C: the current thread.  Known ways are sched_yield,
?C: pthread_yield, and pthread_yield with NULL.
?C:.
?C:HAS_SCHED_YIELD:
?C: This symbol, if defined, indicates that the sched_yield
?C: routine is available to yield the execution of the current
?C: thread.  sched_yield is preferable to pthread_yield.
?C:.
?H:#$d_pthread_yield HAS_PTHREAD_YIELD /**/
?H:#define SCHED_YIELD $sched_yield /**/
?H:#$d_sched_yield HAS_SCHED_YIELD /**/
?H:.
?LINT: set d_pthread_yield d_sched_yield
: see whether the various POSIXish _yields exist
$cat >try.c <<EOP
#include <pthread.h>
#include <stdio.h>
int main() {
#ifdef SCHED_YIELD
 sched_yield();
#else
#ifdef PTHREAD_YIELD
 pthread_yield();
#else
#ifdef PTHREAD_YIELD_NULL
```

```
 pthread_yield(NULL);
#endif
#endif
#endif
}
EOP
: see if sched_yield exists
set try -DSCHED_YIELD
if eval $compile;
 then
   val="$define"
   sched_yield='sched_yield()'
else
   val="$undef"
fi
case "$usethreads" in
$define)
 case "$val" in
 $define) echo 'sched_yield() found.' >&4 ;;
 *)  echo 'sched_yield() NOT found.' >&4 ;;
 esac
esac
set d_sched_yield
eval $setvar

: see if pthread_yield exists
set try -DPTHREAD_YIELD
if eval $compile; then
   val="$define"
   case "$sched_yield" in
   ") sched_yield='pthread_yield()' ;;
   esac
else
   set try -DPTHREAD_YIELD_NULL
   if eval $compile; then
 val="$define"
 case "$sched_yield" in
 ") sched_yield='pthread_yield(NULL)' ;;
 esac
   else
 val="$undef"
   fi
fi
case "$usethreads" in
$define)
 case "$val" in
 $define) echo 'pthread_yield() found.' >&4 ;;
 *)  echo 'pthread_yield() NOT found.' >&4 ;;
```

```
 esac
 ;;
esac
set d_pthread_yield
eval $setvar
case "$sched_yield" in
") sched_yield=undef ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_pthread_y.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Options.U,v $
?RCS: Revision 3.0.1.7  1997/02/28  15:08:15  ram
?RCS: patch61: optdef.sh now starts with a "startsh"
?RCS: patch61: moved some code from Head.U
?RCS:
?RCS: Revision 3.0.1.6  1995/09/25  09:14:46  ram
?RCS: patch59: protected option parsing code against 'echo -*' option failure
?RCS:
?RCS: Revision 3.0.1.5  1995/05/12  12:04:52  ram
?RCS: patch54: added -K option for experts
?RCS:
?RCS: Revision 3.0.1.4  1995/01/30  14:27:52  ram
?RCS: patch49: this unit now exports file optdef.sh,
 not a variable
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:19:00  ram
?RCS: patch45: new -O option allowing -D and -U to override config.sh settings
?RCS: patch45: file optdef.sh is no longer removed after sourcing
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  15:58:06  ram
?RCS: patch36: ensure option definition file is removed before appending
?RCS: patch36: protect variable definitions with spaces in them
?RCS:
```

```
?RCS: Revision 3.0.1.1  1994/06/20  06:55:44  ram
?RCS: patch30: now uses new me symbol to tag error messages
?RCS: patch30: new -D and -U options to define/undef symbols (JHI)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Command line parsing. It is really important that the variables used here
?X: be not listed in the MAKE line, or they will be saved in config.sh and
?X: loading this file to fetch default answers would clobber the values set
?X: herein.
?X:
?MAKE:Options: startsh
?MAKE: -pick wipe $@ %<
?V:reuseval
 alldone error realsilent silent extractsh fastread \
 override knowitall: config_sh
?T:arg argn symbol config_arg0 config_args config_argc xxx yyy zzz uuu
?T:args_exp args_sep arg_exp
?F:!Configure
?F:./optdef.sh ./cmdline.opt ./posthint.sh ./cmdl.opt
: Save command line options in file UU/cmdline.opt for later use in
: generating config.sh.
?X: This temporary file will be read by Oldsym.U.  I used a temporary
?X: file to preserve all sorts of potential command line quotes and
?X: also because we don't know in advance how many variables we'll
?X: need, so I can't actually declare them on the MAKE line.
?X: The config_args variable won't be quite correct if Configure is
?X: fed something like    ./Configure -Dcc="gcc -B/usr/ccs/bin/"
?X: since the quotes are gone by the time we see them.  You'd have to
?X: reconstruct the command line from the config_arg? lines, but since
?X: I don't imagine anyone actually having to do that, I'm not going
?X: to worry too much.
cat > cmdline.opt
 <<EOSH
: Configure command line arguments.
config_arg0='$0'
config_args='$*'
config_argc=$#
EOSH
argn=1
args_exp=''
args_sep=''
for arg in "$@"; do
 cat >>cmdline.opt <<EOSH
config_arg$argn='$arg'
EOSH
```

```
?X: Extreme backslashitis: replace each ' by '''''
 cat <<EOC | sed -e "s/'/'''''''''''''/g" > cmdl.opt
$arg
EOC
 arg_exp=`cat cmdl.opt`
 args_exp="$args_exp$args_sep'$arg_exp'"
 argn=`expr $argn + 1`
 args_sep=' '
done
?X: args_exp is good for restarting self: eval "set X $args_exp"; shift; $0 "$@"
?X: used by hints/os2.sh in Perl, for instance
rm -f cmdl.opt

: produce awk script to parse command line options
cat >options.awk <<'EOF'
BEGIN {
 optstr = "A:dD:eEf:hKOrsSU:V"; # getopt-style specification

 len = length(optstr);
 for (i = 1; i <= len; i++) {
  c = substr(optstr, i, 1);
?X: some older awk's do not have the C ?: construct
  if (i < len) a = substr(optstr, i + 1, 1); else a = "";
  if (a == ":") {
   arg[c] = 1;
   i++;
  }
  opt[c] = 1;
 }
}
{
 expect = 0;
 str = $0;
 if (substr(str,
 1, 1) != "-") {
  printf("'%s'\n", str);
  next;
 }
 len = length($0);
 for (i = 2; i <= len; i++) {
  c = substr(str, i, 1);
  if (!opt[c]) {
   printf("-%s\n", substr(str, i));
   next;
  }
  printf("-%s\n", c);
  if (arg[c]) {
   if (i < len)
```

```
    printf("'%s'\n", substr(str, i + 1));
   else
    expect = 1;
   next;
  }
 }
}
END {
 if (expect)
  print "?";
}
EOF

: process the command line options
?X: Use "$@" to keep arguments with spaces in them from being split apart.
?X: For the same reason, awk will output quoted arguments and the final eval
?X: removes them and sets a proper $* array. An 'X' is prependend to each
?X: argument before being fed to echo to guard against 'echo -x', where -x
?X: would be understood as an echo option! It is removed before feeding awk.
set X `for arg in "$@"; do echo "X$arg"; done |
 sed -e s/X// | awk -f options.awk`
eval "set $*"
shift
rm -f options.awk

: set up default values
fastread=''
reuseval=false
config_sh=''
alldone=''
error=''
silent=''
extractsh=''
override=''
knowitall=''
rm
 -f optdef.sh posthint.sh
cat >optdef.sh <<EOS
$startsh
EOS

?X:
?X: Given that we now have the possibility to execute Configure remotely
?X: thanks to the new src.U support, we have to face the possibility
?X: of having to ask where the source lie, which means we need the Myread.U
?X: stuff and possibly other things that might echo something on the
?X: screen...
?X:
```

```
?X: That's not pretty, and might be confusing in 99% of the time. So...
?X: We introduce a new realsilent variable which is set when -s is given,
?X: and we force silent=true if -S is supplied. The Extractall.U unit
?X: will then undo the >&4 redirection based on the value of the
?X: realsilent variable... -- RAM, 18/93/96
?X:

: option parsing
while test $# -gt 0; do
 case "$1" in
 -d) shift; fastread=yes;;
 -e) shift; alldone=cont;;
 -f)
  shift
  cd ..
  if test -r "$1"; then
   config_sh="$1"
  else
   echo "$me: cannot read config file $1." >&2
   error=true
  fi
  cd UU
  shift;;
 -h)
 shift; error=true;;
 -r) shift; reuseval=true;;
 -s) shift; silent=true; realsilent=true;;
 -E) shift; alldone=exit;;
 -K) shift; knowitall=true;;
 -O) shift; override=true;;
 -S) shift; silent=true; extractsh=true;;
 -D)
  shift
  case "$1" in
  *=)
   echo "$me: use '-U symbol=', not '-D symbol='." >&2
   echo "$me: ignoring -D $1" >&2
   ;;
  *=*) echo "$1" | \
    sed -e "s/'/\'\''\''/g" -e "s/=\(.*\)/='\1'/" >> optdef.sh;;
  *) echo "$1='define'" >> optdef.sh;;
  esac
  shift
  ;;
 -U)
  shift
  case "$1" in
  *=) echo "$1" >> optdef.sh;;
```

```
 *=*)
  echo "$me: use '-D symbol=val', not '-U symbol=val'." >&2
  echo "$me: ignoring -U $1" >&2
  ;;
 *) echo "$1='undef'" >> optdef.sh;;
 esac
 shift
 ;;
-A)
   shift
   xxx=''
   yyy="$1"
   zzz=''
   uuu=undef
   case "$yyy" in
        *=*) zzz=`echo "$yyy"|sed 's!=.*!!'`
             case "$zzz" in
             *:*) zzz='' ;;
             *)   xxx=append
                  zzz=" "`echo
"$yyy"|sed 's!^[^=]*=!!'`
                  yyy=`echo "$yyy"|sed 's!=.*!!'` ;;
             esac
             ;;
        esac
        case "$xxx" in
        '')  case "$yyy" in
             *:*) xxx=`echo "$yyy"|sed 's!:.*!!'`
                  yyy=`echo "$yyy"|sed 's!^[^:]*:!!'`
                  zzz=`echo "$yyy"|sed 's!^[^=]*=!!'`
                  yyy=`echo "$yyy"|sed 's!=.*!!'` ;;
             *)   xxx=`echo "$yyy"|sed 's!:.*!!'`
                  yyy=`echo "$yyy"|sed 's!^[^:]*:!!'` ;;
             esac
             ;;
        esac
   case "$xxx" in
   append)
 echo "$yyy=\"\${$yyy}$zzz\"" >> posthint.sh ;;
   clear)
 echo "$yyy=''   >> posthint.sh ;;
   define)
       case "$zzz" in
 '') zzz=define ;;
 esac
 echo "$yyy='$zzz'"  >> posthint.sh ;;
   eval)
 echo "eval \"$yyy=$zzz\"" >> posthint.sh ;;
```

```
    prepend)
  echo "$yyy=\"$zzz\${$yyy}\"" >> posthint.sh ;;
    undef)
        case "$zzz" in
  ")
 zzz="$uuu" ;;
  esac
  echo "$yyy=$zzz"  >> posthint.sh ;;
          *)  echo "$me: unknown -A command '$xxx', ignoring -A $1" >&2 ;;
    esac
    shift
    ;;
 -V) echo "$me generated by metaconfig <VERSION> PL<PATCHLEVEL>." >&2
    exit 0;;
 --) break;;
 -*) echo "$me: unknown option $1" >&2; shift; error=true;;
 *) break;;
 esac
done

case "$error" in
true)
 cat >&2 <<EOM
Usage: $me [-dehrsEKOSV] [-f config.sh] [-D symbol] [-D symbol=value]
               [-U symbol] [-U symbol=] [-A command:symbol...]
 -d : use defaults for all answers.
 -e : go on without questioning past the production of config.sh.
 -f : specify an alternate default configuration file.
 -h : print this help message and exit (with an error status).
 -r : reuse C symbols value if possible (skips costly nm extraction).
 -s : silent mode, only echoes questions and essential information.
 -D : define symbol to have some value:
        -D symbol         symbol gets the value 'define'
        -D symbol=value
   symbol gets the value 'value'
 -E : stop at the end of questions, after having produced config.sh.
 -K : do not use unless you know what you are doing.
 -O : let -D and -U override definitions from loaded configuration file.
 -S : perform variable substitutions on all .SH files (can mix with -f)
 -U : undefine symbol:
        -U symbol    symbol gets the value 'undef'
        -U symbol=   symbol gets completely empty
 -A : manipulate symbol after the platform specific hints have been applied:
  -A symbol=value  append " "value to symbol
  -A append:symbol=value  append value to symbol
  -A define:symbol=value  define symbol to have value
        -A clear:symbol  define symbol to be "
  -A define:symbol  define symbol to be 'define'
```

```
  -A eval:symbol=value  define symbol to be eval of value
  -A prepend:symbol=value prepend value to symbol
  -A undef:symbol  define symbol to be 'undef'
  -A undef:symbol=  define symbol to be ''
 -V : print version number and exit (with
 a zero status).
EOM
 exit 1
 ;;
esac

?X:
?X: Unless they specified either -S or both -d and -e/E, make sure we're
?X: running interactively, i.e. attached to a terminal. Moved from Head.U to
?X: be able to handle batch configurations...
?X:
?X: We have to hardwire the Configure name and cannot use $me, since if they
?X: said 'sh <Configure', then $me is 'sh'...
?X:
: Sanity checks
case "$fastread$alldone" in
yescont|yesexit) ;;
*)
 case "$extractsh" in
 true) ;;
 *)
  if test ! -t 0; then
   echo "Say 'sh Configure', not 'sh <Configure'"
   exit 1
  fi
  ;;
 esac
 ;;
esac

?X: In silent mode, the standard output is closed. Questions are asked by
?X: outputing on file descriptor #4, which is the original stdout descriptor.
?X: This filters out all the "junk", since all the needed information is written
?X: on #4. Note that ksh will not let us redirect output if the file descriptor
?X: has not be defined yet, unlike sh, hence the following line...--RAM.
exec 4>&1
case "$silent" in
true)
 exec 1>/dev/null;;
esac

: run the defines and the undefines, if any, but leave the file out there...
touch optdef.sh
```

```
. ./optdef.sh
: create the posthint manipulation script and leave the file out there...
?X: this file will be perused by Oldconfig.U
touch posthint.sh
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Options.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: MailList.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: MailList.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:01:49  ram
?RCS: patch16: created
?RCS:
?RCS:
?X:
?X: This unit offers the user the option of subscribing to the mailing
?X: list. To force inclusion of this unit, you must add it's name to the
?X: dependancies on the MAKE line in your private copy of End.U.
?X: The address of the mailing list server must be set via a "list_request=..."
?X:
 entry in the .package file. This is usually done by running packinit and
?X: answering the proper questions.
?X:
?MAKE:MailList: cat mailer package Myread cf_name cf_email
?MAKE: -pick wipe $@ %<
?T:list_request list_sub list_unsub list_name
?X:
?X: The cf_name dependency is used through list_sub when the mailing list
?X: manager happens to be listserv, whereas cf_email is used whith majordomo
?X: or when the mailing list request address is scanned by a human. Since
?X: they do not appear within the unit itself, we need a lint hint.
?X:
?LINT:use cf_name cf_email
: offer to join the mailing list
list_request='<$list_request>'
```

```
list_sub="<$list_sub>"
list_unsub="<$list_unsub>"
list_name="<$list_name>"
$cat <<EOM

There is a mailing list for discussion about $package and related issues.
This is the preferred place to ask questions about the program and discuss
modifications and additions with the author and other users.  If you are able
to send mail to the Internet, you
 are encouraged to subscribe.  You need only
ever subscribe once, and you can unsubscribe automatically at any time in the
future.  If you have already subscribed and you wish to unsubscribe now, you
may do so by answering "unsubscribe".  Answer "subscribe" to subscribe to the
list.

EOM
rp="Subscribe to or unsubscribe from the $list_name mailing list?"
dflt=neither
. ./myread
case "$ans" in
[sS]*) $cat <<EOM

You will be sent a message from the list server to let you know when your
subscription has been successful and telling you how to submit articles and
how to unsubscribe again when necessary. You may also unsubscribe by running
this script again and asking it to do so for you.

EOM
 echo "Sending mail to subscribe you to the $list_name list..." >&4
 $mailer $list_request <<EOM >/dev/null 2>&1
Precedence: junk
To: $list_request

$list_sub
EOM
 ;;
[uU]*) echo "Sending mail to unsubscribe you from the $list_name list..." >&4
 $mailer $list_request <<EOM >/dev/null 2>&1
Precedence: junk
To:
 $list_request

$list_unsub
EOM
 ;;
esac

Found in path(s):
```

* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/MailList.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getppid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_getppid.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:45  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_getppid: Inlibc
?MAKE: -pick add $@ %<
?S:d_getppid:
?S: This variable conditionally defines the HAS_GETPPID symbol, which
?S: indicates to the C program that the getppid() routine is available
?S: to get the parent process ID.
?S:.
?C:HAS_GETPPID :
?C: This symbol,
 if defined, indicates that the getppid routine is
?C: available to get the parent process ID.
?C:.
?H:#$d_getppid HAS_GETPPID  /**/
?H:.
?LINT:set d_getppid
: see if getppid exists
set getppid d_getppid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getppid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_newsadm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_newsadm.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:36:53  ram
?RCS: patch61: added Guess dependency
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:14:33  ram
?RCS: patch36: call ./eunice explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_newsadm newsadmin: cat contains Guess Setvar Myread Oldconfig
?MAKE: -pick add $@ %<
?S:d_newsadm:
?S: This variable
 conditionally defines the NEWS_ADMIN symbol, which
?S: indicates to the C program that there is a user who is in charge
?S: of news administration.
?S:.
?S:newsadmin:
?S: This variable holds the login name of the news administrator, if any.
?S:.
?C:NEWS_ADMIN (NEWSADMIN):
?C: This symbol, if defined, contains the login name of the news
?C: administrator.
?C:.
?H:#$d_newsadm NEWS_ADMIN "$newsadmin"  /**/
?H:.
?LINT:set d_newsadm
: get news administrator name
case "$newsadmin" in
")
 if $contains "^news:" /etc/passwd >/dev/null 2>&1 ; then
  dflt=news
 elif $contains "^usenet:" /etc/passwd >/dev/null 2>&1 ; then
  dflt=usenet
 elif ./eunice; then
  dflt=system
 else
  dflt=root
 fi
 ;;
*)
```

```
 dflt="$newsadmin"
 ;;
esac
$cat <<'EOM'

Many systems keep their news in a private directory, or have a non-superuser
in charge of administering news.  (If you don't have such a user, take the
default answer.)  I need the login name (not directory) which is used for
news administration.

EOM
rp="News
 admin login?"
. ./myread
newsadmin="$ans"
case "$newsadmin" in
root) val="$undef" ;;
*) val="$define" ;;
esac
set d_newsadm
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_newsadm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Chk_MANI.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Chk_MANI.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  14:57:25  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/31  09:33:14  ram
?RCS: patch44: now lists Begin instead of Myinit in its dependencies
?RCS: patch44: leading comment now explains how this unit is included
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?X:
?X: This unit checks the package by making sure
 every file listed in MANIFEST
?X: is present. It is systematically "included" via the Finish unit (which
?X: is always present in every Configure script), although it may result in
?X: an empty inclusion when no MANIFEST is present.
?X:
?MAKE:Chk_MANI: Begin c n rsrc
?MAKE: -pick wipe $@ %<
?T:filelist ans tmppwd
?X: This check happens at metaconfig-time, so it's ok to hard-code the path.
@if {test -f ../MANIFEST}
: Now test for existence of everything in MANIFEST
echo " "
if test -f "$rsrc/MANIFEST"; then
 echo "First let's make sure your kit is complete.  Checking..." >&4
?X:
?X: Files spelled uppercased and beginning with PACK are produced by the
?X: shell archive builder and may be removed by the user. Usually, they are
?X: not listed in the MANIFEST file, but you never know...
?X:
?X: "split -l" is the new way of running a split, but we also try the older way
?X:
 awk '$1 !~ /PACK[A-Z]+/ {print $1}' "$rsrc/MANIFEST" | \
  (split -l 50 2>/dev/null || split -50)
 rm -f missing
 tmppwd=`pwd`
 for
 filelist in x??; do
  (cd "$rsrc"; ls `cat "$tmppwd/$filelist"` \
   >/dev/null 2>>"$tmppwd/missing")
 done
 if test -s missing; then
  cat missing >&4
  cat >&4 <<'EOM'

THIS PACKAGE SEEMS TO BE INCOMPLETE.

You have the option of continuing the configuration process, despite the
distinct possibility that your kit is damaged, by typing 'y'es.  If you
do, don't blame me if something goes wrong.  I advise you to type 'n'o
and contact the author (<MAINTLOC>).

EOM
?X: Can't use $echo at this early stage
  echo $n "Continue? [n] $c" >&4
  read ans
  case "$ans" in
```

```
  y*)
   echo "Continuing..." >&4
   rm -f missing
   ;;
  *)
?X:
?X: Use kill and not exit, so that the trap gets executed to clean up
?X:
   echo "ABORTING..." >&4
   kill $$
   ;;
  esac
 else
  echo "Looks good..."
 fi
else
 echo "There is no MANIFEST file.  I hope your kit is complete !"
fi
rm -f missing x??

@end
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Chk_MANI.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_shmdt.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_shmdt.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_shmdt: Inlibc
?MAKE: -pick add $@ %<
?S:d_shmdt:
?S: This variable conditionally defines the HAS_SHMDT symbol, which
?S: indicates to the C program that the shmdt() routine is available.
?S:.
?C:HAS_SHMDT:
```

```
?C: This symbol, if defined, indicates that the shmdt() routine is
?C: available to detach a shared memory segment from the process
 space.
?C:.
?H:#$d_shmdt HAS_SHMDT  /**/
?H:.
?LINT:set d_shmdt
: see if shmdt exists
set shmdt d_shmdt
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_shmdt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_eaccess: Inlibc
?MAKE: -pick add $@ %<
?S:d_eaccess:
?S: This variable conditionally defines the HAS_EACCESS symbol, which
?S: indicates to the C program that the eaccess() routine is available.
?S:.
?C:HAS_EACCESS :
?C: This symbol, if defined, indicates that the eaccess routine is
?C: available to do extended access checks.
?C:.
?H:#$d_eaccess HAS_EACCESS  /**/
?H:.
?LINT:set d_eaccess
: see if eaccess exists
set eaccess d_eaccess
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/acl/d_eaccess.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_raster.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_raster.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_raster rasterlib: cat test Setvar Myread Oldconfig
?MAKE: -pick add $@ %<
?S:d_raster:
?S: Conditionally defines RASTER_TEK if this is a raster tech machine.
?S:.
?S:rasterlib (d_rasterlib):
?S: Set to the needed compile flag if this is a raster tech machine.
?S: It is up to the Makefile to use this variable.
?S:.
?C:RASTER_TEK:
?C: Defined
 if this is a rastertech machine.
?C:.
?H:#$d_raster RASTER_TEK /**/
?H:.
?LINT:set d_raster
: See if this is a raster tech machine.
val="$undef"
rasterlib="
if $test -r /dev/mirage; then
 $cat <<'EOM'

You seem to have a mirage device... this is normally associated with a raster
technologies graphics workstation. If this is right, you may want to use raster
tech in this program.

EOM
 dflt=y
 case "$d_raster" in
 "$undef") dflt=n;;
 esac
 rp='Use raster tech?'
 . ./myread
 case "$ans" in
 y*) val="$define";;
 esac
fi
```

```
set d_raster
eval $setvar

case "$d_raster" in
"$define") rasterlib='-lphigs';;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_raster.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_ndbm.U,v 3.0.1.1 1995/05/12 12:16:53 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: i_ndbm.U,v $
?RCS: Revision 3.0.1.1  1995/05/12  12:16:53  ram
?RCS: patch54: made more robust by checking both header and lib (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:23  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_ndbm i_gdbmndbm i_gdbm_ndbm d_ndbm d_ndbm_h_uses_prototypes \
 d_gdbmndbm_h_uses_prototypes d_gdbm_ndbm_h_uses_prototypes: \
    Inhdr Inlibc Setvar test d_cplusplus extern_C echo Protochk
?MAKE: -pick add $@ %<
?S:i_ndbm:
?S: This
 variable conditionally defines the I_NDBM symbol, which
?S: indicates to the C program that <ndbm.h> exists and should
?S: be included.
?S:.
?C:I_NDBM:
?C: This symbol, if defined, indicates that <ndbm.h> exists and should
?C: be included.
?C:.
?S:i_gdbmndbm:
?S: This variable conditionally defines the I_GDBMNDBM symbol, which
?S: indicates to the C program that <gdbm/ndbm.h> exists and should
?S: be included.  This was the location of the ndbm.h compatibility file
?S: in RedHat 7.1.
```

```
?S:.
?C:I_GDBMNDBM:
?C: This symbol, if defined, indicates that <gdbm/ndbm.h> exists and should
?C: be included.  This was the location of the ndbm.h compatibility file
?C: in RedHat 7.1.
?C:.
?S:i_gdbm_ndbm:
?S: This variable conditionally defines the I_GDBM_NDBM symbol, which
?S: indicates to the C program that <gdbm-ndbm.h> exists and should
?S: be included.  This is the location of the ndbm.h compatibility file
?S: in Debian 4.0.
?S:.
?C:I_GDBM_NDBM:
?C: This symbol, if defined, indicates
 that <gdbm-ndbm.h> exists and should
?C: be included.  This is the location of the ndbm.h compatibility file
?C: in Debian 4.0.
?C:.
?S:d_ndbm:
?S: This variable conditionally defines the HAS_NDBM symbol, which
?S: indicates that both the ndbm.h include file and an appropriate ndbm
?S: library exist.  Consult the different i_*ndbm variables
?S: to find out the actual include location.  Sometimes, a system has the
?S: header file but not the library.  This variable will only be set if
?S: the system has both.
?S:.
?C:HAS_NDBM:
?C: This symbol, if defined, indicates that some form of ndbm.h or compatibility
?C: include exists, along with the appropriate library.
?C:.
?S:d_ndbm_h_uses_prototypes:
?S: This variable conditionally defines the NDBM_H_USES_PROTOTYPES symbol,
?S: which indicates that the ndbm.h include file uses real ANSI C
?S: prototypes instead of K&R style function declarations. K&R style
?S: declarations are unsupported in C++, so the include file requires
?S: special handling
 when using a C++ compiler and this variable is
?S: undefined. Consult the different d_*ndbm_h_uses_prototypes variables
?S: to get the same information for alternative ndbm.h include files.
?S:.
?C:NDBM_H_USES_PROTOTYPES:
?C: This symbol, if defined, indicates that <ndbm.h> uses real ANSI C
?C: prototypes instead of K&R style function declarations without any
?C: parameter information. While ANSI C prototypes are supported in C++,
?C: K&R style function declarations will yield errors.
?C:.
?S:d_gdbmndbm_h_uses_prototypes:
?S: This variable conditionally defines the NDBM_H_USES_PROTOTYPES symbol,
```

```
?S: which indicates that the gdbm/ndbm.h include file uses real ANSI C
?S: prototypes instead of K&R style function declarations. K&R style
?S: declarations are unsupported in C++, so the include file requires
?S: special handling when using a C++ compiler and this variable is
?S: undefined. Consult the different d_*ndbm_h_uses_prototypes variables
?S: to get the same information for alternative
 ndbm.h include files.
?S:.
?C:GDBMNDBM_H_USES_PROTOTYPES:
?C: This symbol, if defined, indicates that <gdbm/ndbm.h> uses real ANSI C
?C: prototypes instead of K&R style function declarations without any
?C: parameter information. While ANSI C prototypes are supported in C++,
?C: K&R style function declarations will yield errors.
?C:.
?S:d_gdbm_ndbm_h_uses_prototypes:
?S: This variable conditionally defines the NDBM_H_USES_PROTOTYPES symbol,
?S: which indicates that the gdbm-ndbm.h include file uses real ANSI C
?S: prototypes instead of K&R style function declarations. K&R style
?S: declarations are unsupported in C++, so the include file requires
?S: special handling when using a C++ compiler and this variable is
?S: undefined. Consult the different d_*ndbm_h_uses_prototypes variables
?S: to get the same information for alternative ndbm.h include files.
?S:.
?C:GDBM_NDBM_H_USES_PROTOTYPES:
?C: This symbol, if defined, indicates that <gdbm-ndbm.h> uses real ANSI C
?C: prototypes
 instead of K&R style function declarations without any
?C: parameter information. While ANSI C prototypes are supported in C++,
?C: K&R style function declarations will yield errors.
?C:.
?H:#$i_ndbm I_NDBM /**/
?H:#$i_gdbmndbm I_GDBMNDBM /**/
?H:#$i_gdbm_ndbm I_GDBM_NDBM /**/
?H:#$d_ndbm HAS_NDBM /**/
?H:#$d_ndbm_h_uses_prototypes NDBM_H_USES_PROTOTYPES /**/
?H:#$d_gdbmndbm_h_uses_prototypes GDBMNDBM_H_USES_PROTOTYPES /**/
?H:#$d_gdbm_ndbm_h_uses_prototypes GDBM_NDBM_H_USES_PROTOTYPES /**/
?H:.
?T:d_dbm_open name hdr ihdr ndbm_hdr_protochk
?LINT:set d_ndbm d_gdbmndbm_h_uses_prototypes d_gdbm_ndbm_h_uses_prototypes
d_ndbm_h_uses_prototypes
: see if ndbm.h is available
set ndbm.h i_ndbm
eval $inhdr
: Compatibility location for RedHat 7.1
set gdbm/ndbm.h i_gdbmndbm
eval $inhdr
: Compatibility location for Debian 4.0
```

```
set gdbm-ndbm.h i_gdbm_ndbm
eval $inhdr

val="$undef"
if $test "$i_ndbm" = "$define" -o "$i_gdbmndbm" = "$define" -o "$i_gdbm_ndbm" = "$define"; then
 : see if dbm_open exists
 set
 dbm_open d_dbm_open
 eval $inlibc
 case "$d_dbm_open" in
 $undef)
  i_ndbm="$undef"
  i_gdbmndbm="$undef"
  i_gdbm_ndbm="$undef"
  echo "We won't be including <ndbm.h>"
  val="$undef"
  ;;
 *) val="$define"
    ;;
 esac
fi
set d_ndbm
eval $setvar

ndbm_hdr_protochk='name=$1; hdr=$2;
eval "ihdr=\$""i_$name";
val="$undef";
if $test "$ihdr" = "$define"; then
 $echo "Checking if your <$hdr> uses prototypes..." >&4;
 case "$d_cplusplus" in
 $define) ./protochk "$extern_C void dbm_close(DBM *);" literal "extern \"C\" {" $ihdr $hdr literal "}" &&
val="$define" ;;
 *) ./protochk "$extern_C void dbm_close(int, int);" $ihdr $hdr || val="$define" ;;
 esac;
 case "$val" in
 $define) $echo "Your <$hdr> seems to have prototypes";;
 *) $echo "Your <$hdr> does not seem to have prototypes";;
 esac;
fi;
set "d_${name}_h_uses_prototypes";
eval $setvar'

set ndbm ndbm.h
eval $ndbm_hdr_protochk
set gdbmndbm gdbm/ndbm.h
eval $ndbm_hdr_protochk
set gdbm_ndbm gdbm-ndbm.h
eval $ndbm_hdr_protochk
```

Found
 in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_ndbm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_crypt_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_crypt_r crypt_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_crypt extern_C
?MAKE: -pick add $@ %<
?S:d_crypt_r:
?S: This variable conditionally defines the HAS_CRYPT_R symbol,
?S: which indicates to the C program that the crypt_r()
?S: routine is available.
?S:.
?S:crypt_r_proto:
?S: This variable encodes the prototype of crypt_r.
?S: It is zero if d_crypt_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_crypt_r
?S: is defined.
?S:.
?C:HAS_CRYPT_R:
?C: This symbol, if defined, indicates that the crypt_r routine
?C: is available to crypt re-entrantly.
?C:.
?C:CRYPT_R_PROTO:
?C: This
 symbol encodes the prototype of crypt_r.
?C: It is zero if d_crypt_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_crypt_r
?C: is defined.
?C:.
?H:#$d_crypt_r HAS_CRYPT_R /**/
?H:#define CRYPT_R_PROTO $crypt_r_proto /**/
?H:.
?T:try hdrs d_crypt_r_proto
: see if crypt_r exists
set crypt_r d_crypt_r
eval $inlibc
case "$d_crypt_r" in
```

```
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_crypt crypt.h"
 case "$d_crypt_r_proto:$usethreads" in
 ":define") d_crypt_r_proto=define
  set d_crypt_r_proto crypt_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_crypt_r_proto" in
 define)
 case "$crypt_r_proto" in
 "|0) try='char* crypt_r(const char*, const char*, struct crypt_data*);'
 ./protochk "$extern_C $try" $hdrs && crypt_r_proto=B_CCS ;;
 esac
 case "$crypt_r_proto" in
 "|0) try='char* crypt_r(const char*, const char*, CRYPTD*);'
 ./protochk "$extern_C $try" $hdrs && crypt_r_proto=B_CCD ;;
 esac
 case "$crypt_r_proto" in
 "|0) d_crypt_r=undef
  crypt_r_proto=0
  echo
 "Disabling crypt_r, cannot determine prototype." >&4 ;;
 * ) case "$crypt_r_proto" in
  REENTRANT_PROTO*) ;;
  *) crypt_r_proto="REENTRANT_PROTO_$crypt_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "crypt_r has no prototype, not using it." >&4 ;;
  esac
  d_crypt_r=undef
  crypt_r_proto=0
  ;;
 esac
 ;;
*) crypt_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_crypt_r.U
No license file was found, but licenses were detected in source scan.

?RCS: Id

```
?RCS:
?RCS: Copyright (c) 1997, Chip Salzenberg
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sh.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:20:13  ram
?RCS: patch61: created
?RCS:
?MAKE:sh: Head
?MAKE: -pick wipe $@ %<
?S:sh:
?S: This variable contains the full pathname of the shell used
?S: on this system to execute Bourne shell scripts.  Usually, this will be
?S: /bin/sh, though it's possible that some systems will have /bin/ksh,
?S: /bin/pdksh, /bin/ash, /bin/bash, or even something such as
?S: D:/bin/sh.exe.
?S: This unit comes before Options.U,
 so you can't set sh with a -D
?S: option, though you can override this (and startsh)
?S: with -O -Dsh=/bin/whatever -Dstartsh=whatever
?S:.
?C:SH_PATH:
?C: This symbol contains the full pathname to the shell used on this
?C: on this system to execute Bourne shell scripts.  Usually, this will be
?C: /bin/sh, though it's possible that some systems will have /bin/ksh,
?C: /bin/pdksh, /bin/ash, /bin/bash, or even something such as
?C: D:/bin/sh.exe.
?C:.
?H:#define SH_PATH "$sh"  /**/
?H:.
?T:xxx try pth p SYSTYPE
?LINT:extern maintloc maintname
?X:
?X: Be quiet unless something unusual happens because this gets
?X: loaded up even before options are processed.
?X: Can't use ./loc because that depends on startsh, which, in turn
?X: depends on this unit.
?X:
: Find the basic shell for Bourne shell scripts
case "$sh" in
")
?X: SYSTYPE is for some older MIPS systems.
```

```
?X: I do not know if it is still needed.
 case "$SYSTYPE" in
 *bsd*|sys5*) xxx="/$SYSTYPE/bin/sh";;
 *) xxx='/bin/sh';;
 esac
 if
 test -f "$xxx"; then
  sh="$xxx"
 else
  : Build up a list and do a single loop so we can 'break' out.
  pth=`echo $PATH | sed -e "s/$p_/ /g"`
  for xxx in sh bash ksh pdksh ash; do
   for p in $pth; do
    try="$try ${p}/${xxx}"
   done
  done
  for xxx in $try; do
   if test -f "$xxx"; then
    sh="$xxx"
    break
   elif test -f "$xxx$_exe"; then
    sh="$xxx"
    break
   elif test -f "$xxx.exe"; then
    sh="$xxx"
    break
   fi
  done
 fi
 ;;
esac

?X: fd 4 isn't open yet...
case "$sh" in
") cat >&2 <<EOM
$me:  Fatal Error:  I can't find a Bourne Shell anywhere.

Usually it's in /bin/sh.  How did you even get this far?
Please contact me (<$maintname>) at <$maintloc> and
we'll try to straighten this all out.
EOM
 exit 1
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/sh.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_safebcpy.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  15:40:58  ram
?RCS: patch61: improved overlapping copy check
?RCS: patch61: comfort them if they have memmove
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.3  1995/07/25  13:58:40  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.2  1995/01/11  15:29:23  ram
?RCS: patch45: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:49:03
  ram
?RCS: patch23: ensure string is not optimized in read-only memory (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_safebcpy: cat d_bcopy +cc +optimize +ccflags +ldflags +libs rm \
 d_memmove i_memory i_stdlib i_string i_unistd Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_safebcpy:
?S: This variable conditionally defines the HAS_SAFE_BCOPY symbol if
?S: the bcopy() routine can do overlapping copies.
?S:.
?C:HAS_SAFE_BCOPY (SAFE_BCOPY):
?C: This symbol, if defined, indicates that the bcopy routine is available
?C: to copy potentially overlapping memory blocks. Otherwise you should
?C: probably use memmove() or memcpy(). If neither is defined, roll your
?C: own version.
?C:.
?H:#$d_safebcpy HAS_SAFE_BCOPY /**/
?H:.
?F:!safebcpy
?LINT: set d_safebcpy
```

```
: can bcopy handle overlapping blocks?
?X: assume the worst
val="$undef"
case "$d_bcopy" in
"$define")
 echo " "
 echo "Checking to see if your bcopy() can do overlapping
 copies..." >&4
 $cat >foo.c <<EOCP
#$i_memory I_MEMORY
#$i_stdlib I_STDLIB
#$i_string I_STRING
#$i_unistd I_UNISTD
EOCP
 $cat >>foo.c <<'EOCP'
#include <stdio.h>
#ifdef I_MEMORY
#  include <memory.h>
#endif
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#ifdef I_STRING
#  include <string.h>
#else
#  include <strings.h>
#endif
#ifdef I_UNISTD
#  include <unistd.h>  /* Needed for NetBSD */
#endif
int main()
{
char buf[128], abc[128];
char *b;
int len;
int off;
int align;

?X: Copy "abcde..." string to char abc[] so that gcc doesn't
?X: try to store the string in read-only memory.
bcopy("abcdefghijklmnopqrstuvwxyz0123456789", abc, 36);

for (align = 7; align >= 0; align--) {
 for (len = 36; len; len--) {
  b = buf+align;
  bcopy(abc, b, len);
  for (off = 1; off <= len; off++) {
   bcopy(b, b+off, len);
```

```
   bcopy(b+off, b, len);
   if (bcmp(b, abc, len))
    exit(1);
  }
 }
}
exit(0);
}
EOCP
 if $cc $optimize $ccflags $ldflags \
      -o safebcpy foo.c $libs >/dev/null 2>&1; then
  if ./safebcpy
 2>/dev/null; then
   echo "Yes, it can."
   val="$define"
  else
   echo "It can't, sorry."
   case "$d_memmove" in
   "$define") echo "But that's Ok since you have memmove()." ;;
   esac
  fi
 else
  echo "(I can't compile the test program, so we'll assume not...)"
  case "$d_memmove" in
  "$define") echo "But that's Ok since you have memmove()." ;;
  esac
 fi
 ;;
esac
$rm -f foo.* safebcpy core
set d_safebcpy
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_safebcpy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: uidtype.U,v 3.0.1.3 1994/08/29 16:33:25 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: of the source tree for dist 3.0.
?RCS:
```

```
?RCS: $Log: uidtype.U,v $
?RCS: Revision 3.0.1.3  1994/08/29  16:33:25  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20  07:09:36  ram
?RCS: patch30: comment for uidtype referred to the obsoleted symbol
?RCS:
?RCS: Revision 3.0.1.1  1994/05/13  15:28:27  ram
?RCS: patch27: made conformant to its gidtype.U companion
?RCS: patch27: question now explicitly mentions getuid()
?RCS:
?RCS: Revision 3.0  1993/08/18
  12:09:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:uidtype: Myread Typedef Findhdr
?MAKE: -pick add $@ %<
?S:uidtype:
?S: This variable defines Uid_t to be something like uid_t, int,
?S: ushort, or whatever type is used to declare user ids in the kernel.
?S:.
?C:Uid_t (UIDTYPE):
?C: This symbol holds the type used to declare user ids in the kernel.
?C: It can be int, ushort, uid_t, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Uid_t $uidtype  /* UID type */
?H:.
?T:xxx
: see what type uids are declared as in the kernel
echo " "
echo "Looking for the type for user ids returned by getuid()."
set uid_t uidtype xxx stdio.h sys/types.h
eval $typedef
case "$uidtype" in
xxx)
 xxx=`./findhdr sys/user.h`
 set `grep '_ruid;' "$xxx" 2>/dev/null` unsigned short
 case $1 in
 unsigned) dflt="$1 $2" ;;
 *) dflt="$1" ;;
 esac
 ;;
*) dflt="$uidtype";;
esac
case "$uidtype" in
uid_t) echo "uid_t found." ;;
*) rp="What
```

```
 is the type for user ids returned by getuid()?"
 . ./myread
 uidtype="$ans"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/uidtype.U
No license file was found, but licenses were detected in source scan.

```
# $Id: errnolist.sh,v 3.0.1.1 1994/01/24 14:00:00 ram Exp ram $
#
#  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
#
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#  as specified in the README file that comes with the distribution.
#  You may reuse parts of this distribution only within the terms of
#  that same Artistic Licence; a copy of which may be found at the root
#  of the source tree for dist 4.0.
#
# Original Author: Harlan Stenn <harlan@mumps.pfcs.com>
#
# $Log: errnolist.sh,v $
# Revision 3.0.1.1  1994/01/24  14:00:00  ram
# patch16: changed top ln-style config.sh lookup into test-style one
#
# Revision 3.0  1993/08/18  12:04:36  ram
# Baseline for dist 3.0 netwide release.
#

case $CONFIG in
")
 if test -f config.sh; then TOP=.;
 elif test -f ../config.sh; then TOP=..;
 elif test -f ../../config.sh; then TOP=../..;
 elif test -f ../../../config.sh; then TOP=../../..;
 elif
 test -f ../../../../config.sh; then TOP=../../../..;
 else
  echo "Can't find config.sh."; exit 1
 fi
 . $TOP/config.sh
 ;;
esac
case "$0" in
*/*) cd `expr X$0 : 'X\(.*\)/'` ;;
esac
```

```
case "$errnolistc" in
") ;;
*)
 echo "Making $errnolistc ..."
 awk -f errnolist.a < /usr/include/sys/errno.h > $errnolistc
 echo "It would be a good idea to make sure that $errnolistc is correct."
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/lib/errnolist.SH
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: bin.U,v $
?RCS: Revision 3.0.1.4  1995/09/25  09:15:32  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:32:40  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:05:28  ram
?RCS: patch32: now uses installation prefix
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  15:56:51  ram
?RCS: patch10: made prompting more explicit (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18
  12:05:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:bin binexp installbin: Prefixit Getfile Oldconfig afs cat test
?MAKE: -pick add $@ %<
?Y:TOP
?S:bin:
?S: This variable holds the name of the directory in which the user wants
?S: to put publicly executable images for the package in question.  It
?S: is most often a local directory such as /usr/local/bin. Programs using
?S: this variable must be prepared to deal with ~name substitution.
```

```
?S:.
?S:binexp:
?S: This is the same as the bin variable, but is filename expanded at
?S: configuration time, for use in your makefiles.
?S:.
?S:installbin:
?S: This variable is the same as binexp unless AFS is running in which case
?S: the user is explicitly prompted for it. This variable should always
?S: be used in your makefiles for maximum portability.
?S:.
?C:BIN:
?C: This symbol holds the path of the bin directory where the package will
?C: be installed. Program must be prepared to deal with ~name substitution.
?C:.
?C:BIN_EXP:
?C: This
 symbol is the filename expanded version of the BIN symbol, for
?C: programs that do not want to deal with that at run-time.
?C:.
?H:#define BIN "$bin" /**/
?H:#define BIN_EXP "$binexp" /**/
?H:.
?D:bin='/usr/local/bin'
: determine where public executables go
echo " "
set dflt bin bin
eval $prefixit
fn=d~
rp='Pathname where the public executables will reside?'
. ./getfile
if $test "X$ansexp" != "X$binexp"; then
 installbin=''
fi
bin="$ans"
binexp="$ansexp"
if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
executables reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installbin" in
 '') dflt=`echo $binexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installbin";;
 esac
 fn=de~
```

```
 rp='Where will public executables be installed?'
 . ./getfile
 installbin="$ans"
else
 installbin="$binexp"
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/bin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fpos64_t: \
 Inlibc Setvar Compile rm_try cat fpossize
?MAKE: -pick add $@ %<
?S:d_fpos64_t:
?S: This symbol will be defined if the C compiler supports fpos64_t.
?S:.
?C:HAS_FPOS64_T:
?C: This symbol will be defined if the C compiler supports fpos64_t.
?C:.
?H:#$d_fpos64_t HAS_FPOS64_T /**/
?H:.
?LINT:set d_fpos64_t
: check for fpos64_t
echo " "
echo "Checking to see if you have fpos64_t..." >&4
$cat >try.c <<EOCP
#include <stdio.h>
int main() { fpos64_t x = 7; }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have fpos64_t."
else
 val="$undef"
 echo "You do not have fpos64_t."
 case "$fpossize" in
 8) echo "(Your fpos_t is 64 bits, so you could use that.)" ;;
 esac
```

```
fi
$rm_try
set
 d_fpos64_t
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fpos64_t.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_cuserid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_cuserid.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:25  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_cuserid: Inlibc
?MAKE: -pick add $@ %<
?S:d_cuserid:
?S: This variable conditionally defines the HAS_CUSERID symbol, which
?S: indicates to the C program that the cuserid() routine is available
?S: to get character login names.
?S:.
?C:HAS_CUSERID :
?C: This symbol,
 if defined, indicates that the cuserid routine is
?C: available to get character login names.
?C:.
?H:#$d_cuserid HAS_CUSERID  /**/
?H:.
?LINT:set d_cuserid
: see if cuserid exists
set cuserid d_cuserid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-

5.36.0/dist/U/d_cuserid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_pwd.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:10:57  ram
?RCS: patch56: use setvar so hint file values can override our guesses (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:03:27  ram
?RCS: patch23: had forgotten cppminus in cppstdin test (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:25  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit checks whether there is a pwd system or not
?X:
?MAKE:i_pwd d_pwquota d_pwage d_pwchange d_pwclass d_pwexpire d_pwcomment:
 \
 contains rm cppstdin cppflags cppminus Inhdr Findhdr Setvar
?MAKE: -pick add $@ %<
?S:i_pwd:
?S: This variable conditionally defines I_PWD, which indicates
?S: to the C program that it should include <pwd.h>.
?S:.
?S:d_pwquota:
?S: This varaible conditionally defines PWQUOTA, which indicates
?S: that struct passwd contains pw_quota.
?S:.
?S:d_pwage:
?S: This varaible conditionally defines PWAGE, which indicates
?S: that struct passwd contains pw_age.
?S:.
?S:d_pwchange:
?S: This varaible conditionally defines PWCHANGE, which indicates
?S: that struct passwd contains pw_change.
?S:.
?S:d_pwclass:
?S: This varaible conditionally defines PWCLASS, which indicates
```

```
?S: that struct passwd contains pw_class.
?S:.
?S:d_pwexpire:
?S: This varaible conditionally defines PWEXPIRE, which indicates
?S: that struct passwd contains pw_expire.
?S:.
?S:d_pwcomment:
?S: This varaible conditionally defines PWCOMMENT, which indicates
?S: that struct passwd contains pw_comment.
?S:.
?C:I_PWD:
?C: This symbol,
 if defined, indicates to the C program that it should
?C: include <pwd.h>.
?C:.
?C:PWQUOTA:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_quota.
?C:.
?C:PWAGE:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_age.
?C:.
?C:PWCHANGE:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_change.
?C:.
?C:PWCLASS:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_class.
?C:.
?C:PWEXPIRE:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_expire.
?C:.
?C:PWCOMMENT:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_comment.
?C:.
?H:#$i_pwd I_PWD  /**/
?H:#$d_pwquota PWQUOTA /**/
?H:#$d_pwage PWAGE /**/
?H:#$d_pwchange PWCHANGE /**/
?H:#$d_pwclass PWCLASS /**/
?H:#$d_pwexpire PWEXPIRE /**/
?H:#$d_pwcomment PWCOMMENT /**/
?H:.
?LINT: set i_pwd d_pwquota
```

```
 d_pwage d_pwchange d_pwclass d_pwexpire d_pwcomment
?T:xxx
: see if this is a pwd.h system
set pwd.h i_pwd
eval $inhdr

case "$i_pwd" in
$define)
 xxx=`./findhdr pwd.h`
 $cppstdin $cppflags $cppminus < $xxx >$$.h

 if $contains 'pw_quota' $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_pwquota
 eval $setvar

 if $contains 'pw_age' $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_pwage
 eval $setvar

 if $contains 'pw_change' $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_pwchange
 eval $setvar

 if $contains 'pw_class' $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_pwclass
 eval $setvar

 if $contains 'pw_expire' $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
```

```
 set d_pwexpire
 eval $setvar

 if $contains 'pw_comment' $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_pwcomment
 eval $setvar

 $rm -f $$.h
 ;;
*)
 val="$undef";
 set
 d_pwquota; eval $setvar
 set d_pwage; eval $setvar
 set d_pwchange; eval $setvar
 set d_pwclass; eval $setvar
 set d_pwexpire; eval $setvar
 set d_pwcomment; eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_pwd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: gidtype.U,v 3.0.1.3 1994/08/29 16:21:44 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: gidtype.U,v $
?RCS: Revision 3.0.1.3  1994/08/29  16:21:44  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS: patch32: removed useless usage of Setvar (for now)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:21:07  ram
?RCS: patch27: added lint hint
?RCS:
```

```
?RCS: Revision 3.0.1.1  1994/05/06  15:01:51  ram
?RCS: patch23: protected gidtype setting via setvar (ADO)
?RCS: patch23: made Gid_t comment more explicit (ADO)
?RCS:
?RCS: Revision
 3.0  1993/08/18  12:08:11  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:gidtype: Myread Typedef Findhdr
?MAKE: -pick add $@ %<
?S:gidtype:
?S: This variable defines Gid_t to be something like gid_t, int,
?S: ushort, or whatever type is used to declare the return type
?S: of getgid().  Typically, it is the type of group ids in the kernel.
?S:.
?C:Gid_t (GIDTYPE):
?C: This symbol holds the return type of getgid() and the type of
?C: argument to setrgid() and related functions.  Typically,
?C: it is the type of group ids in the kernel. It can be int, ushort,
?C: gid_t, etc... It may be necessary to include <sys/types.h> to get
?C: any typedef'ed information.
?C:.
?H:#define Gid_t $gidtype  /* Type for getgid(), etc... */
?H:.
?T:xxx
: see what type gids are declared as in the kernel
echo " "
echo "Looking for the type for group ids returned by getgid()."
set gid_t gidtype xxx stdio.h sys/types.h
eval $typedef
case "$gidtype" in
xxx)
 xxx=`./findhdr sys/user.h`
 set `grep
 'groups\[NGROUPS\];' "$xxx" 2>/dev/null` unsigned short
 case $1 in
 unsigned) dflt="$1 $2" ;;
 *) dflt="$1" ;;
 esac
 ;;
*) dflt="$gidtype";;
esac
case "$gidtype" in
gid_t) echo "gid_t found." ;;
*) rp="What is the type for group ids returned by getgid()?"
 . ./myread
 gidtype="$ans"
 ;;
```

```
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/gidtype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_tcstpgrp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_tcstpgrp.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:12:11  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_tcsetpgrp: Inlibc
?MAKE: -pick add $@ %<
?S:d_tcsetpgrp:
?S: This variable conditionally defines the HAS_TCSETPGRP symbol, which
?S: indicates to the C program that the tcsetpgrp() routine is available
?S: to set foreground process group ID.
?S:.
?C:HAS_TCSETPGRP
 :
?C: This symbol, if defined, indicates that the tcsetpgrp routine is
?C: available to set foreground process group ID.
?C:.
?H:#$d_tcsetpgrp HAS_TCSETPGRP  /**/
?H:.
?LINT:set d_tcsetpgrp
: see if tcsetpgrp exists
set tcsetpgrp d_tcsetpgrp
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_tcstpgrp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pread.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_pread.U,v $
?RCS:
?MAKE:d_pread: Inlibc
?MAKE: -pick add $@ %<
?S:d_pread:
?S: This variable conditionally defines the HAS_PREAD symbol, which
?S: indicates to the C program that the pread() routine is available.
?S:.
?C:HAS_PREAD :
?C: This symbol, if defined, indicates that the pread routine is
?C: available to perform reads on a file descriptor at a given offset.
?C:.
?H:#$d_pread HAS_PREAD  /**/
?H:.
?LINT:set d_pread
: see if pread exists
set
 pread d_pread
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_pread.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_dlerror.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_dlerror.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  13:52:49  ram
```

```
?RCS: patch56: force compile-link test since symbol might lie in crt0.o (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:11:23  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_dlerror: Inlibc runnm
?MAKE: -pick add $@ %<
?S:d_dlerror:
?S: This variable conditionally defines the HAS_DLERROR symbol, which
?S: indicates
 to the C program that the dlerror() routine is available.
?S:.
?C:HAS_DLERROR :
?C: This symbol, if defined, indicates that the dlerror routine is
?C: available to return a string describing the last error that
?C: occurred from a call to dlopen(), dlclose() or dlsym().
?C:.
?H:#$d_dlerror HAS_DLERROR /**/
?H:.
?T: xxx_runnm
?LINT:set d_dlerror
?X: We don't permanently change runnm, but we do temporarily.
?LINT: change runnm
: see if dlerror exists
?X: On NetBSD and FreeBSD, dlerror might be available, but it is in
?X: /usr/lib/crt0.o, not in any of the libraries.  Therefore, do not
?X: use the nm extraction, but use a real compile and link test instead.
xxx_runnm="$runnm"
runnm=false
set dlerror d_dlerror
eval $inlibc
runnm="$xxx_runnm"
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_dlerror.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
```

```
?MAKE:d_sbrkproto: Hasproto i_unistd
?MAKE: -pick add $@ %<
?S:d_sbrkproto:
?S: This variable conditionally defines the HAS_SBRK_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the sbrk() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_SBRK_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the sbrk() function.  Otherwise, it is up
?C: to the program to supply one.  Good guesses are
?C:  extern void* sbrk(int);
?C:  extern
 void* sbrk(size_t);
?C:.
?H:#$d_sbrkproto HAS_SBRK_PROTO /**/
?H:.
?LINT:set d_sbrkproto
: see if prototype for sbrk is available
echo " "
set d_sbrkproto sbrk $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_sbrkproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysndir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysndir.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:33  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_sysndir: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysndir:
?S: This variable conditionally defines the I_SYS_NDIR symbol, and indicates
?S: whether a C program should include <sys/ndir.h>.
```

```
?S:.
?C:I_SYS_NDIR (I_SYSNDIR):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/ndir.h>.
?C:.
?H:#$i_sysndir
 I_SYS_NDIR /**/
?H:.
?LINT:set i_sysndir
: see if this is an sysndir system
set sys/ndir.h i_sysndir
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sysndir.U
No license file was found, but licenses were detected in source scan.

```
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:gidsign: Myread Typedef gidtype Compile run
?MAKE: -pick add $@ %<
?S:gidsign:
?S: This variable contains the signedness of a gidtype.
?S: 1 for unsigned, -1 for signed.
?S:.
?C:Gid_t_sign:
?C: This symbol holds the signedness of a Gid_t.
?C: 1 for unsigned, -1 for signed.
?C:.
?H:#define Gid_t_sign $gidsign  /* GID sign */
?H:.
?T:yyy zzz
?F:!try
: Check if GID is signed
echo " "
case "$gidtype" in
*_t) zzz="$gidtype" ;;
*)   zzz="gid"  ;;
esac
echo "Checking the sign of $zzz..." >&4
```

```
cat > try.c <<EOCP
#include <sys/types.h>
#include
 <stdio.h>
int main() {
 $gidtype foo = -1;
 if (foo < 0)
  printf("-1\n");
 else
  printf("1\n");
}
EOCP
set try
if eval $compile; then
 yyy=`$run ./try`
 case "$yyy" in
 ") gidsign=1
  echo "(I can't execute the test program--guessing unsigned.)" >&4
  ;;
 *) gidsign=$yyy
  case "$gidsign" in
   1) echo "Your $zzz is unsigned." ;;
  -1) echo "Your $zzz is signed."   ;;
  esac
  ;;
 esac
else
 gidsign=1
 echo "(I can't compile the test program--guessing unsigned.)" >&4
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/gidsign.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_lchown.U,v 3.0.1.1 1994/08/29 16:07:14 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
```

```
?RCS: $Log: d_lchown.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:14  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_lchown: Compile Setvar cat echo i_unistd rm_try
?MAKE: -pick add $@ %<
?S:d_lchown:
?S: This variable conditionally defines the HAS_LCHOWN symbol, which
?S: indicates to the C program that the lchown() routine is available
?S: to operate on a symbolic link (instead of following
 the link).
?S:.
?C:HAS_LCHOWN :
?C: This symbol, if defined, indicates that the lchown routine is
?C: available to operate on a symbolic link (instead of following the
?C: link).
?C:.
?H:#$d_lchown HAS_LCHOWN  /**/
?H:.
?F:!try
?LINT:set d_lchown
: see if lchown exists
echo " "
?X: Some functions (such as lchown()) are present in libc, but are
?X: unimplemented.  That is, they always fail and set errno=ENOSYS.
?X:
?X: Thomas Bushnell provided the following sample code and the explanation
?X: that follows.
?X:
?X: The choice of <assert.h> is essentially arbitrary.  The GNU libc
?X: macros are found in <gnu/stubs.h>.  You can include that file instead
?X: of <assert.h> (which itself includes <gnu/stubs.h>) if you test for
?X: its existence first.  <assert.h> is assumed to exist on every system,
?X: which is why it's used here.  Any GNU libc header file will include
?X: the stubs macros.  If either __stub_NAME or __stub___NAME is defined,
?X: then the function doesn't actually exist.
  Tests using <assert.h> work
?X: on every system around.
?X:
?X: The declaration of FOO is there to override builtin prototypes for
?X: ANSI C functions.
?X:
?X:  I really ought to enhance the inlibc test to check for this, but
?X:  I don't have time now.  --A.D.  5/1998
?X:
?X: Unfortunately, this trick fails under clang++-7.  Apparently to
?X: cover both the stub issue and clang's requirements, we need to do
?X: a compile and run test. -- A.D. 8/2019
```

```
?X:
$cat > try.c <<EOCP
#include <pwd.h>
#include <stdio.h>
#include <stdlib.h>
#$i_unistd I_UNISTD
#ifdef I_UNISTD
#  include <unistd.h>
#endif
int main(int argc, char *argv[])
{
  if (lchown("./try.c", -1, getgid()) == -1) {
      exit(EXIT_FAILURE);
  }
  exit(EXIT_SUCCESS);
}
EOCP
set try
if eval $compile && ./try; then
   $echo "lchown() found." >&4
   val="$define"
else
   $echo "lchown() NOT found." >&4
   val="$undef"
fi
set d_lchown
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_lchown.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: n.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: n.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:n c: contains
?MAKE: -pick add $@ %<
?S:n:
?S: This variable contains the -n flag if that is what causes the echo
?S: command to suppress newline.  Otherwise it is null.  Correct usage is
?S:     $echo $n "prompt for a question: $c".
?S:.
?S:c:
?S: This variable contains the \c string if that is what causes the echo
?S: command to suppress newline.
  Otherwise it is null.  Correct usage is
?S:     $echo $n "prompt for a question: $c".
?S:.
: first determine how to suppress newline on echo command
echo " "
echo "Checking echo to see how to suppress newlines..."
(echo "hi there\c" ; echo " ") >.echotmp
if $contains c .echotmp >/dev/null 2>&1 ; then
 echo "...using -n."
 n='-n'
 c=''
else
 cat <<'EOM'
...using \c
EOM
 n=''
 c='\c'
fi
echo $n "The star should be here-->$c"
echo '*'
rm -f .echotmp
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/n.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gconvert.U,v 3.0.1.3 1997/02/28 15:33:38 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
```

```
?RCS:
?RCS: $Log: d_gconvert.U,v $
?RCS: Revision 3.0.1.3 1997/02/28  15:33:38  ram
?RCS: patch61: integrated new unit from perl5
?RCS:
?RCS: Revision 3.0.1.2 1995/07/25  13:55:59  ram
?RCS: patch56: improved comments about the Gconvert macro (ADO)
?RCS: patch56: force compile-link test since it may exist but be unusable (ADO)
?RCS:
?RCS: Revision 3.0.1.1 1994/10/29  16:12:51  ram
?RCS: patch36:
 created by ADO
?RCS:
?MAKE:d_Gconvert: \
 Compile cat Inlibc rm _o rm_try i_stdlib d_qgcvt run \
 uselongdouble d_longdbl d_PRIgldbl sPRIgldbl
?MAKE: -pick add $@ %<
?S:d_Gconvert:
?S: This variable holds what Gconvert is defined as to convert
?S: floating point numbers into strings.  By default, Configure
?S: sets this macro to use the first of gconvert, gcvt, or sprintf
?S: that pass sprintf-%g-like behavior tests.  If perl is using
?S: long doubles, the macro uses the first of the following
?S: functions that pass Configure's tests: qgcvt, sprintf (if
?S: Configure knows how to make sprintf format long doubles--see
?S: sPRIgldbl), gconvert, gcvt, and sprintf (casting to double).
?S: The gconvert_preference and gconvert_ld_preference variables
?S: can be used to alter Configure's preferences, for doubles and
?S: long doubles, respectively.  If present, they contain a
?S: space-separated list of one or more of the above function
?S: names in the order they should be tried.
?S:
?S: d_Gconvert
 may be set to override Configure with a platform-
?S: specific function.  If this function expects a double, a
?S: different value may need to be set by the uselongdouble.cbu
?S: call-back unit so that long doubles can be formatted without
?S: loss of precision.
?S:.
?C:Gconvert:
?C: This preprocessor macro is defined to convert a floating point
?C: number to a string without a trailing decimal point.  This
?C: emulates the behavior of sprintf("%g"), but is sometimes much more
?C: efficient.  If gconvert() is not available, but gcvt() drops the
?C: trailing decimal point, then gcvt() is used.  If all else fails,
?C: a macro using sprintf("%g") is used. Arguments for the Gconvert
?C: macro are: value, number of digits, whether trailing zeros should
?C: be retained, and the output buffer.
```

```
?C: The usual values are:
?C:  d_Gconvert='gconvert((x),(n),(t),(b))'
?C:  d_Gconvert='gcvt((x),(n),(b))'
?C:  d_Gconvert='sprintf((b),"%.*g",(n),(x))'
?C: The last two assume trailing zeros should
 not be kept.
?C:.
?H:#define Gconvert(x,n,t,b) $d_Gconvert
?H:.
?T: xxx_list xxx_convert xxx_ld_list
?F:!try
?LINT:extern gconvert_preference
?LINT:extern gconvert_ld_preference
: Check how to convert floats to strings.

if test "X$d_Gconvert" = X; then

echo " "
echo "Checking for an efficient way to convert floats to strings."
echo " " > try.c
case "$uselongdouble" in
"$define") echo "#define USE_LONG_DOUBLE" >>try.c ;;
esac
case "$d_longdbl" in
"$define") echo "#define HAS_LONG_DOUBLE" >>try.c ;;
esac
case "$d_PRIgldbl" in
"$define") echo "#define HAS_PRIgldbl"    >>try.c ;;
esac
$cat >>try.c <<EOP
#ifdef TRY_gconvert
#define Gconvert(x,n,t,b) gconvert((x),(n),(t),(b))
const char *myname = "gconvert";
#endif
#ifdef TRY_gcvt
#define Gconvert(x,n,t,b) gcvt((x),(n),(b))
const char *myname = "gcvt";
#endif
#ifdef TRY_qgcvt
#define Gconvert(x,n,t,b) qgcvt((x),(n),(b))
const char *myname = "qgcvt";
#define DOUBLETYPE long double
#endif
#ifdef TRY_sprintf
#if defined(USE_LONG_DOUBLE) &&
 defined(HAS_LONG_DOUBLE)
#ifdef HAS_PRIgldbl
#define Gconvert(x,n,t,b) sprintf((b),"%.*"$sPRIgldbl,(n),(x))
```

```
#else
#define Gconvert(x,n,t,b) sprintf((b),"%.*g",(n),(double)(x))
#endif
#else
#define Gconvert(x,n,t,b) sprintf((b),"%.*g",(n),(x))
#endif
const char *myname = "sprintf";
#endif

#ifndef DOUBLETYPE
#if defined(USE_LONG_DOUBLE) && defined(HAS_LONG_DOUBLE)
#define DOUBLETYPE long double
#else
#define DOUBLETYPE double
#endif
#endif

#include <stdio.h>

#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <string.h>

void checkit(const char *expect, char *got)
{
   if (strcmp(expect, got)) {
  printf("%s oddity:  Expected %s, got %s\n",
   myname, expect, got);
  exit(1);
 }
}

void lencheck(int expect, int got)
{
   if (expect != got) {
  printf("%s length mismatch:  Expected %d, got %d\n",
   myname, expect, got);
  exit(1);
 }
}

int main()
{
 char buf[64];
 buf[63] = '\0';
```

```
/* This must be 1st test on (which?) platform */
/* Alan Burlison <AlanBurlsin@unn.unisys.com>
*/
Gconvert((DOUBLETYPE)0.1, 8, 0, buf);
checkit("0.1", buf);

Gconvert((DOUBLETYPE)0.01, 8, 0, buf);
checkit("0.01", buf);

Gconvert((DOUBLETYPE)0.001, 8, 0, buf);
checkit("0.001", buf);

Gconvert((DOUBLETYPE)0.0001, 8, 0, buf);
checkit("0.0001", buf);

Gconvert((DOUBLETYPE)0.00009, 8, 0, buf);
if (strlen(buf) > 5)
   checkit("9e-005", buf); /* for Microsoft ?? */
else
   checkit("9e-05", buf);

Gconvert((DOUBLETYPE)1.0, 8, 0, buf);
checkit("1", buf);

Gconvert((DOUBLETYPE)1.1, 8, 0, buf);
checkit("1.1", buf);

Gconvert((DOUBLETYPE)1.01, 8, 0, buf);
checkit("1.01", buf);

Gconvert((DOUBLETYPE)1.001, 8, 0, buf);
checkit("1.001", buf);

Gconvert((DOUBLETYPE)1.0001, 8, 0, buf);
checkit("1.0001", buf);

Gconvert((DOUBLETYPE)1.00001, 8, 0, buf);
checkit("1.00001", buf);

Gconvert((DOUBLETYPE)1.000001, 8, 0, buf);
checkit("1.000001", buf);

Gconvert((DOUBLETYPE)0.0, 8, 0, buf);
checkit("0", buf);

Gconvert((DOUBLETYPE)-1.0, 8, 0, buf);
checkit("-1",
```

```
 buf);

 /* Some Linux gcvt's give 1.e+5 here. */
 Gconvert((DOUBLETYPE)100000.0, 8, 0, buf);
 checkit("100000", buf);

 /* Some Linux gcvt's give -1.e+5 here. */
 Gconvert((DOUBLETYPE)-100000.0, 8, 0, buf);
 checkit("-100000", buf);

 Gconvert((DOUBLETYPE)123.456, 8, 0, buf);
 checkit("123.456", buf);

 /* Testing of 1e+129 in bigintpm.t must not get extra '.' here. */
 Gconvert((DOUBLETYPE)1e34, 8, 0, buf);
 /* 34 should be enough to scare even long double
  * places into using the e notation. */
 if (strlen(buf) > 5)
    checkit("1e+034", buf); /* for Microsoft */
 else
    checkit("1e+34", buf);

 /* Test for an Ubuntu/Debian bug in gcvt and qgcvt. See:        *
  * https://bugs.launchpad.net/ubuntu/+source/glibc/+bug/1899553 */

 Gconvert((DOUBLETYPE)0.4, 53, 0, buf);
 lencheck(55, (int)strlen(buf));

 /* For Perl, if you add additional tests here, also add them to
  * t/base/num.t for benefit of platforms not using Configure or
  * overriding d_Gconvert */

 exit(0);
}
EOP
?X:
 List of order in which to search for functions.
?X: Usual order of efficiency is gconvert gcvt sprintf
?X: If a hint file sets a d_Gconvert="gconvert" or "gcvt" or "sprintf",
?X: then that is taken as a hint for which function to try first.
?X: (e.g. that function may be in a problematic /usr/ucblib library, and
?X: the user may or may not choose to use -lucb stuff.)
?X: Any other hint file (or previous config.sh) setting is left intact.
: first add preferred functions to our list
xxx_list=""
for xxx_convert in $gconvert_preference; do
   case $xxx_convert in
   gcvt|gconvert|sprintf) xxx_list="$xxx_list $xxx_convert" ;;
```

```
   *) echo "Discarding unrecognized gconvert_preference $xxx_convert" >&4 ;;
   esac
done
: then add any others
for xxx_convert in gconvert gcvt sprintf; do
   case "$xxx_list" in
   *$xxx_convert*) ;;
   *) xxx_list="$xxx_list $xxx_convert" ;;
   esac
done

case "$d_longdbl$uselongdouble" in
"$define$define")
   : again, add preferred functions to our
 list first
   xxx_ld_list=""
   for xxx_convert in $gconvert_ld_preference; do
       case $xxx_convert in
       qgcvt|gcvt|gconvert|sprintf) xxx_ld_list="$xxx_ld_list $xxx_convert" ;;
       *) echo "Discarding unrecognized gconvert_ld_preference $xxx_convert" ;;
       esac
   done
   : then add qgcvt, sprintf--then, in xxx_list order, gconvert and gcvt
   for xxx_convert in qgcvt sprintf $xxx_list; do
       case "$xxx_ld_list" in
       $xxx_convert*|*" $xxx_convert"*) ;;
       *) xxx_ld_list="$xxx_ld_list $xxx_convert" ;;
       esac
   done
   : if sprintf cannot do long doubles, move it to the end
   if test "$d_PRIgldbl" != "$define"; then
       xxx_ld_list="`echo $xxx_ld_list|sed s/sprintf//` sprintf"
   fi
   : if no qgcvt, remove it
   if test "$d_qgcvt" != "$define"; then
       xxx_ld_list="`echo $xxx_ld_list|sed s/qgcvt//`"
   fi
   : use the ld_list
   xxx_list="$xxx_ld_list"
   ;;
esac

for xxx_convert in $xxx_list; do
 echo "Trying $xxx_convert..."
?X:
 Do NOT use $rm_try here, as we need to keep try.c
 $rm -f try try$_o core
 set try -DTRY_$xxx_convert
```

```
 if eval $compile; then
  echo "$xxx_convert() found." >&4
  if $run ./try; then
   echo "I'll use $xxx_convert to convert floats into a string." >&4
   break;
  else
   echo "...But $xxx_convert didn't work as I expected."
   xxx_convert=''
  fi
 else
  echo "$xxx_convert NOT found." >&4
  xxx_convert=''
 fi
done

if test X$xxx_convert = X; then
   echo "*** WHOA THERE!!! ***" >&4
   echo "None of ($xxx_list)  seemed to work properly.  I'll use sprintf." >&4
   xxx_convert=sprintf
fi

case "$xxx_convert" in
gconvert) d_Gconvert='gconvert((x),(n),(t),(b))' ;;
gcvt) d_Gconvert='gcvt((x),(n),(b))' ;;
qgcvt) d_Gconvert='qgcvt((x),(n),(b))' ;;
*) case "$uselongdouble$d_longdbl$d_PRIgldbl" in
  "$define$define$define")
     d_Gconvert="sprintf((b),\"%.*\"$sPRIgldbl,(n),(x))" ;;
  "$define$define$undef")
     d_Gconvert='sprintf((b),"%.*g",(n),(double)(x))' ;;
  *) d_Gconvert='sprintf((b),"%.*g",(n),(x))'
 ;;
  esac
  ;;
esac

fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_gconvert.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_NOFILE.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:08:38  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:nofile d_gettblsz tablesize: Myread Guess cat +cc +ccflags +libs \
 test rm Csym
?MAKE: -pick add $@ %<
?S:nofile:
?S: This variable contains the number of file descriptors available to the
?S: process.
?S:.
?S:d_gettblsz:
?S: This variable conditionally handles remapping
 of the getdtablesize()
?S: subroutine to ulimit(4,0), or the NOFILE manifest constant.
?S:.
?S:tablesize:
?S: This variable contains either the 'NOFILE' constant or 'ulimit(4, 0L)'
?S: and is used as the remapped value for the getdtablesize() macro.
?S:.
?C:getdtablesize:
?C: This catches use of the getdtablesize() subroutine, and remaps it
?C: to either ulimit(4,0) or NOFILE, if getdtablesize() isn't available.
?C:.
?C:VAL_NOFILE:
?C: This symbol contains the number of file descriptors available to the
?C: process, as determined at configuration time. Unless a static constant
?C: is needed, you should rely on getdtablesize() to obtain that number.
?C:.
?H:#$d_gettblsz getdtablesize() $tablesize /**/
?H:#define VAL_NOFILE $nofile /* Number of file descriptors */
?H:.
?F:!nofile
?T:d_ulimit4 val
: see if getdtablesize exists
echo " "
?X: Revert logical value (d_gettblsz is undef iff getdtablesize is present)
case "$d_gettblsz" in
$define) d_gettblsz="$undef";;
```

```
$undef) d_gettblsz="$define";;
esac
if
 set getdtablesize val -f d_gettblsz; eval $csym; $val; then
 echo 'getdtablesize() found.' >&4
 d_gettblsz="$undef"
 tablesize=''
@if VAL_NOFILE || nofile
 $cat >nofile.c <<'EOCP'
#include <stdio.h>
int main()
{
 printf("%d\n", getdtablesize());
}
EOCP
 nofile=''
 if $cc $ccflags -o nofile nofile.c $libs >/dev/null 2>&1; then
  nofile=`./nofile 2>/dev/null`
 fi
 if $test "$nofile"; then
  echo "(You have $nofile file descriptors available per process.)"
 else
  nofile='20'
  if ./bsd; then
   nofile='64'
  fi
 echo "(Hmm... Let's say you have $nofile file descriptors available.)"
 fi
@end
else
 echo 'getdtablesize() NOT found...' >&4
 if set ulimit val -f; eval $csym; $val; then
  echo 'Maybe ulimit(4,0) will work...'
  $cat >nofile.c <<'EOCP'
#include <stdio.h>
#ifdef GETPARAM_H
#include <sys/param.h>
#endif
int main()
{
 printf("%d %d\n",
#ifdef NOFILE
  NOFILE,
#else
  0,
#endif
  ulimit(4,0));
  exit(0);
```

```
}
EOCP
  if $cc $ccflags -DGETPARAM_H -o nofile nofile.c $libs
 >/dev/null 2>&1 \
   || $cc $ccflags -o nofile nofile.c $libs >/dev/null 2>&1 ; then
   set `./nofile`
   d_gettblsz=$1
   d_ulimit4=$2
   if $test "$d_ulimit4" -lt 0; then
    echo "Your ulimit() call doesn't tell me what I want to know."
    echo "We'll just use NOFILE in this case."
    nofile=$d_gettblsz
    d_gettblsz="$define"
    tablesize='NOFILE'
   else
    if $test "$d_gettblsz" -gt 0; then
    echo "Your system defines NOFILE to be $d_gettblsz, and" >&4
    else
    echo "I had trouble getting NOFILE from your system, but" >&4
    fi
echo "ulimit returns $d_ulimit4 as the number of available file descriptors." >&4
    dflt='y';
    echo " "
 rp='Should I use ulimit to get the number of available file descriptors?'
    . ./myread
    case "$ans" in
    y*)
     nofile=$d_ulimit4
     d_gettblsz="$define"
     tablesize='ulimit(4, 0L)'
     echo "Using ulimit(4,0)."
     ;;
    *)
     nofile=$d_gettblsz
     d_gettblsz="$define"
     tablesize='NOFILE'
     echo "Using NOFILE."
     ;;
    esac
   fi
  else
   echo
 "Strange, I couldn't get my test program to compile."
   echo "We'll just use NOFILE in this case."
   d_gettblsz="$define"
   tablesize='NOFILE'
   nofile=''
  fi
```

```
 else
  echo 'Using NOFILE instead.'
  d_gettblsz="$define"
  tablesize='NOFILE'
  nofile=''
 fi
fi
@if VAL_NOFILE || nofile
case "$nofile" in
'')
 $cat >nofile.c <<'EOCP'
#include <stdio.h>
#ifdef GETPARAM_H
#include <sys/param.h>
#endif
int main()
{
 printf("%d\n",
#ifdef NOFILE
  NOFILE,
#else
  0,
#endif
  );
  exit(0);
}
EOCP
 if $cc $ccflags -DGETPARAM_H -o nofile nofile.c $libs >/dev/null 2>&1 \
  || $cc $ccflags -o nofile nofile.c $libs >/dev/null 2>&1 ; then
  nofile=`./nofile 2>/dev/null`
 fi
 if $test "$nofile"; then
  echo "(You have $nofile file descriptors available per process.)"
 else
  nofile='20'
  if ./bsd; then
   nofile='64'
  fi
 echo "(Hmm... Let's say you have $nofile file descriptors available.)"
 fi
 ;;
esac
@end
$rm -f nofile*
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_NOFILE.U

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```
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sunscanf.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:sunscanf: cat rm Myread +cc +ccflags test Setvar
?MAKE: -pick add $@ %<
?S:sunscanf:
?S: This variable is set if this system runs with the Sun version
?S: of scanf.
?S:.
?C:SUNSCANF:
?C: This variable is set if this system runs with the Sun version
?C: of scanf.
?C:.
?H:#$sunscanf  SUNSCANF  /**/
?H:.
?LINT:set sunscanf
: check to see what kinda scanf your using.
echo " "
echo "Checking
 to see what flavor of scanf you have..." >&4
$cat >scanf.c <<'EOCP'
int main()
{
 float value;

 sscanf("4.5","%g",&value);
 printf("%d\n", value == 4.5);
}
EOCP
if $cc $ccflags -o scanf scanf.c >/dev/null 2>&1 ; then
 if $test `scanf` = 0; then
  echo "Hmm.. seems your not running the USG flavor.."
  val="$undef"
 else
  echo "Uh... your running the USG flavor of scanf."
```

```
  val="$define"
 fi
else
 echo "(I can't seem to compile the test program... Guessing)"
 val="$undef"
fi
set sunscanf
eval $setvar
$rm -f scanf*
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/sunscanf.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_keepsig.U,v $
?RCS: Revision 3.0.1.4  1995/07/25  13:57:56  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:26:25  ram
?RCS: patch45: protected "sh -c" within backquotes for Linux and SGI
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:13:59  ram
?RCS: patch36: call ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.1  1993/10/16  13:48:47  ram
?RCS: patch12: comment for SIGNALS_KEPT was the other way round
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:06:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_keepsig: cat Compile rm Guess contains echo n c Setvar run
?MAKE: -pick add $@ %<
?S:d_keepsig:
?S: This variable contains the eventual value of the SIGNALS_KEPT symbol,
?S: which indicates to the C program if signal handlers need not reinstated
?S: after receipt of a signal.
```

```
?S:.
?C:SIGNALS_KEPT (PERSISTENT_SIGNAL):
?C: This symbol is defined if signal handlers needn't be reinstated after
?C: receipt of a signal.
?C:.
?H:#$d_keepsig SIGNALS_KEPT /**/
?H:.
?F:!try !try.out
?LINT:set d_keepsig
: see if signals are kept
val="$undef";
echo " "
echo "Checking to see if signal handlers stick around..." >&4
$cat >try.c <<'EOCP'
foo() {}

int main()
{
 signal(2, foo);
 kill(getpid(), 2);
 kill(getpid(), 2);
 printf("abc\n");
}
EOCP
set try
if eval $compile_ok; then
?X: On AIX a single ./try will not work (with ksh)
?X: Backquotes required on Linux and SGI (prevents "ambiguous output redirect")
?X:
 (reported by Xavier LeVourch <xavierl@eiffel.com>)
 `sh -c $run ./try >try.out 2>/dev/null`
 if $contains abc try.out >/dev/null 2>&1; then
  echo "Yes, they do."
  val="$define";
 else
  echo "No, they don't."
 fi
else
 $echo $n "(I can't seem to compile the test program. Assuming $c"
 if ./bsd; then
  echo "they do.)"
  val="$define"
 else
  echo "they don't.)"
 fi
fi
set d_keepsig
eval $setvar
```

```
$rm -f try*
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_keepsig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sitelib.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:21:35  ram
?RCS: patch61: created
?RCS:
?MAKE:sitelib sitelibexp installsitelib: afs cat Getfile \
 Oldconfig Prefixit test privlib package sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:sitelib:
?S: This variable contains the eventual value of the SITELIB symbol,
?S: which is the name of the private library for this package.  It may
?S: have a ~ on the front. It is up to the makefile to eventually create
?S: this
 directory while performing installation (with ~ substitution).
?S:.
?S:sitelibexp:
?S: This variable is the ~name expanded version of sitelib, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?S:installsitelib:
?S: This variable is really the same as sitelibexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?C:SITELIB:
?C: This symbol contains the name of the private library for this package.
?C: The library is private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.  The program
?C: should be prepared to do ~ expansion.
?C: The standard distribution will put nothing in this directory.
```

```
?C: Individual sites may place their own extensions and modules in
?C: this directory.
?C:.
?C:SITELIB_EXP:
?C: This symbol contains the ~name expanded version of SITELIB, to be used
?C: in programs that are not prepared to deal with ~ expansion
 at run-time.
?C:.
?H:#define SITELIB "$sitelib"  /**/
?H:#define SITELIB_EXP "$sitelibexp"  /**/
?H:.
?T:prog
: determine where site specific libraries go.
set sitelib sitelib
eval $prefixit
case "$sitelib" in
")
?X: remove any trailing -3.0 or other version indentification
 prog=`echo $package | $sed 's/-*[0-9.]*$//'`
 dflt="$privlib/site_$prog" ;;
*) dflt="$sitelib" ;;
esac
$cat <<EOM

The installation process will also create a directory for
site-specific extensions and modules.  Some users find it convenient
to place all local files in this directory rather than in the main
distribution directory.

EOM
fn=d~+
rp='Pathname for the site-specific library files?'
. ./getfile
if $test "X$sitelibexp" != "X$ansexp"; then
 installsitelib=''
fi
sitelib="$ans"
sitelibexp="$ansexp"
if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
private files reside from the directory in which they are installed (and from
which they are presumably copied to
 the former directory by occult means).

EOM
 case "$installsitelib" in
```

```
 ") dflt=`echo $sitelibexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installsitelib";;
 esac
 fn=de~
 rp='Where will private files be installed?'
 . ./getfile
 installsitelib="$ans"
else
 installsitelib="$sitelibexp"
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/sitelib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:need_va_copy: rm_try cat Compile run
?MAKE: -pick add $@ %<
?S:need_va_copy:
?S: This symbol, if defined, indicates that the system stores
?S: the variable argument list datatype, va_list, in a format
?S: that cannot be copied by simple assignment, so that some
?S: other means must be used when copying is required.
?S: As such systems vary in their provision (or non-provision)
?S: of copying mechanisms, handy.h defines a platform-
?S: independent macro, Perl_va_copy(src, dst), to do the job.
?S:.
?C:NEED_VA_COPY:
?C: This
 symbol, if defined, indicates that the system stores
?C: the variable argument list datatype, va_list, in a format
?C: that cannot be copied by simple assignment, so that some
?C: other means must be used when copying is required.
?C: As such systems vary in their provision (or non-provision)
?C: of copying mechanisms, handy.h defines a platform-
?C: independent macro, Perl_va_copy(src, dst), to do the job.
?C:.
?H:#$need_va_copy NEED_VA_COPY  /**/
```

```
?H:.
?T:okay
?F:!try
: see if we need va_copy
echo " "
$cat >try.c <<EOCP
#include <stdarg.h>
#include <stdio.h>
#include <stdlib.h>
#include <signal.h>

int
ivfprintf(FILE *f, const char *fmt, va_list *valp)
{
 return vfprintf(f, fmt, *valp);
}

int
myvfprintf(FILE *f, const  char *fmt, va_list val)
{
 return ivfprintf(f, fmt, &val);
}

int
myprintf(char *fmt, ...)
{
 va_list val;
 va_start(val, fmt);
 return myvfprintf(stdout, fmt, val);
}

int
main(int ac, char **av)
{
 signal(SIGSEGV, exit);
#ifdef SIGBUS
 signal(SIGBUS,
 exit);
#endif

 myprintf("%s%cs all right, then\n", "that", '\');
 exit(0);
}
EOCP
set try
if eval $compile && $run ./try 2>&1 >/dev/null; then
 case "`$run ./try`" in
 "that's all right, then")
```

```
  okay=yes
  ;;
 esac
fi
case "$okay" in
yes) echo "It seems that you don't need va_copy()." >&4
 need_va_copy="$undef"
 ;;
*) echo "It seems that va_copy() or similar will be needed." >&4
 need_va_copy="$define"
 ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/need_va_copy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sgndchr.U,v 3.0.1.2 1997/02/28 15:44:25 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_sgndchr.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:44:25  ram
?RCS: patch61: added a ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  14:00:24  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:16  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sgndchr: cat rm Compile Setvar run
?MAKE: -pick add $@ %<
?S:d_sgndchr:
?S: This variable conditionally defines the SIGNEDCHAR
 symbol, which
?S: indicates to the C program that signed characters are available.
?S:.
?C:SIGNEDCHAR:
?C: This symbol, if defined, indicates that characters are a signed type.
```

```
?C: If not defined, things declared as signed characters (and that make
?C: use of negative values) should probably be declared as shorts instead.
?C:.
?H:#$d_sgndchr SIGNEDCHAR /**/
?H:.
?F:!try
?LINT:set d_sgndchr
: check for signed chars
echo " "
echo "Checking to see if your C compiler can do signed chars..." >&4
$cat >try.c <<'EOCP'
int main()
{
 char c = 0;

 c--;
 exit(c >= 0);
}
EOCP
set try
if eval $compile && $run ./try; then
if $run ./try; then
 val="$define"
 echo "It certainly can."
else
 val="$undef"
 echo "It can't.  I'll have to make some things type short."
fi
set d_sgndchr
eval $setvar
$rm -f try*
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_sgndchr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setgrent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_setgrent_r setgrent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_grp extern_C
?MAKE: -pick add $@ %<
```

```
?S:d_setgrent_r:
?S: This variable conditionally defines the HAS_SETGRENT_R symbol,
?S: which indicates to the C program that the setgrent_r()
?S: routine is available.
?S:.
?S:setgrent_r_proto:
?S: This variable encodes the prototype of setgrent_r.
?S: It is zero if d_setgrent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setgrent_r
?S: is defined.
?S:.
?C:HAS_SETGRENT_R:
?C: This symbol, if defined, indicates that the setgrent_r routine
?C: is available to
 setgrent re-entrantly.
?C:.
?C:SETGRENT_R_PROTO:
?C: This symbol encodes the prototype of setgrent_r.
?C: It is zero if d_setgrent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setgrent_r
?C: is defined.
?C:.
?H:#$d_setgrent_r HAS_SETGRENT_R /**/
?H:#define SETGRENT_R_PROTO $setgrent_r_proto /**/
?H:.
?T:try hdrs d_setgrent_r_proto
: see if setgrent_r exists
set setgrent_r d_setgrent_r
eval $inlibc
case "$d_setgrent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_grp grp.h"
 case "$d_setgrent_r_proto:$usethreads" in
 ":define") d_setgrent_r_proto=define
  set d_setgrent_r_proto setgrent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_setgrent_r_proto" in
 define)
 case "$setgrent_r_proto" in
 "|0) try='int setgrent_r(FILE**);'
 ./protochk "$extern_C $try" $hdrs && setgrent_r_proto=I_H ;;
 esac
 case "$setgrent_r_proto" in
 "|0) try='void setgrent_r(FILE**);'
 ./protochk "$extern_C $try" $hdrs && setgrent_r_proto=V_H ;;
 esac
```

```
 case "$setgrent_r_proto"
 in
 "|0) d_setgrent_r=undef
  setgrent_r_proto=0
  echo "Disabling setgrent_r, cannot determine prototype." >&4 ;;
 * ) case "$setgrent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) setgrent_r_proto="REENTRANT_PROTO_$setgrent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "setgrent_r has no prototype, not using it." >&4 ;;
  esac
  d_setgrent_r=undef
  setgrent_r_proto=0
  ;;
 esac
 ;;
*) setgrent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_setgrent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: ccflags.U,v 3.0.1.9 1997/02/28 15:27:07 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: ccflags.U,v $
?RCS: Revision 3.0.1.9  1997/02/28  15:27:07  ram
?RCS: patch61: removed support for NO_PROTOTYPE detection on SCO
?RCS: patch61: new locincpth variable
?RCS: patch61: added info on the "additional ld flags" question
?RCS:
?RCS: Revision 3.0.1.8  1995/07/25  13:48:54  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
```

```
?RCS: Revision 3.0.1.7  1995/05/12  12:08:33  ram
?RCS: patch54: now checks for cc/ccflags/ldflags
 coherency
?RCS:
?RCS: Revision 3.0.1.6  1994/10/29  16:07:02  ram
?RCS: patch36: gcc versioning no longer relies on the C compiler's name
?RCS: patch36: simplified check for gcc version checking (ADO)
?RCS:
?RCS: Revision 3.0.1.5  1994/08/29  16:06:35  ram
?RCS: patch32: propagate -posix flag from ccflags to ldflags
?RCS:
?RCS: Revision 3.0.1.4  1994/05/06  14:28:45  ram
?RCS: patch23: -fpcc-struct-return only needed in gcc 1.x (ADO)
?RCS: patch23: cppflags now computed on an option-by-option basis
?RCS: patch23: magically added cc flags now only done the first time
?RCS:
?RCS: Revision 3.0.1.3  1993/09/13  15:58:29  ram
?RCS: patch10: explicitly mention -DDEBUG just in case they need it (WAD)
?RCS: patch10: removed all the "tans" variable usage (WAD)
?RCS:
?RCS: Revision 3.0.1.2  1993/08/27  14:39:38  ram
?RCS: patch7: added support for OSF/1 machines
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:00:24  ram
?RCS: patch6: added defaults for cppflags, ccflags and ldflags
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:05:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:ccflags ldflags lkflags cppflags optimize locincpth: test cat \
 Myread Guess Options Oldconfig +gccversion mips_type +usrinc \
 package contains rm +cc cppstdin cppminus cpprun cpplast libpth \
 libs loclibpth hint usesocks sh run rm_try sysroot
?MAKE: -pick add $@ %<
?S:ccflags:
?S: This variable contains any additional C compiler flags desired by
?S: the user.  It is up to the Makefile to use this.
?S:.
?S:cppflags:
?S: This variable holds the flags that will be passed to the C pre-
?S: processor. It is up to the Makefile to use it.
?S:.
?S:optimize:
?S: This variable contains any optimizer/debugger flag that should be used.
?S: It is up to the Makefile to use it.
?S:.
?S:ldflags:
```

```
?S: This variable contains any additional C loader flags desired by
?S: the user.  It is up to the Makefile to use this.
?S:.
?S:lkflags:
?S: This variable contains any additional C partial linker flags desired
 by
?S: the user.  It is up to the Makefile to use this.
?S:.
?S:locincpth:
?S: This variable contains a list of additional directories to be
?S: searched by the compiler.  The appropriate '-I' directives will
?S: be added to ccflags.  This is intended to simplify setting
?S: local directories from the Configure command line.
?S: It's not much, but it parallels the loclibpth stuff in libpth.U.
?S:.
?T:inctest thisincl xxx inclwanted ftry previous thislibdir
?T:EBUGGING DEBUGGING
?T:check flag callback checkccflag
?F:!cpp.c !gcctest !try
?D:cppflags=''
?D:ccflags=''
?D:ldflags=''
?D:optimize=''
?LINT:extern _sysroot
?INIT:: Possible local include directories to search.
?INIT:: Set locincpth to "" in a hint file to defeat local include searches.
?INIT:locincpth="/usr/local/include /opt/local/include /usr/gnu/include"
?INIT:locincpth="$locincpth /opt/gnu/include /usr/GNU/include /opt/GNU/include"
?INIT::
?INIT:: no include file wanted by default
?INIT:inclwanted=''
?INIT:
?INIT:: Enable
 -DEBUGGING and -DDEBUGGING from the command line
?INIT:EBUGGING=''
?INIT:DEBUGGING=''
?INIT:
: determine optimization, if desired, or use for debug flag also
?X: Allow for Configure -Uoptimize -- it's not strictly sensible, but
?X: it has happened and we know what they mean.   AD  2/16/98
case "$optimize" in
' '|$undef) dflt='none';;
'') dflt='-O';;
*) dflt="$optimize";;
esac
$cat <<EOH

By default, $package compiles with the -O flag to use the optimizer.
```

```
Alternately, you might want to use the symbolic debugger, which uses
the -g flag (on traditional Unix systems).  Either flag can be
specified here.  To use neither flag, specify the word "none".

EOH
rp="What optimizer/debugger flag should be used?"
. ./myread
optimize="$ans"
case "$optimize" in
'none') optimize=" ";;
esac

: Check what DEBUGGING is required from the command line
: -DEBUGGING      or -DDEBUGGING or
: -DEBUGGING=both   = -g + -DDEBUGGING
: -DEBUGGING=-g   or -Doptimize=-g = -g
: -DEBUGGING=none or -UDEBUGGING =
: -DEBUGGING=old
  or -DEBUGGING=default = ? $optimize
case "$EBUGGING" in
") ;;
*) DEBUGGING=$EBUGGING ;;
esac

case "$DEBUGGING" in
-g|both|$define)
   case "$optimize" in
 *-g*) ;;
 *)    optimize="$optimize -g" ;;
   esac ;;
none|$undef)
   case "$optimize" in
 *-g*) set `echo "X $optimize " | sed 's/ -g / /'`
  shift
  optimize="$*"
  ;;
   esac ;;
esac

dflt="
case "$DEBUGGING" in
both|$define) dflt='-DDEBUGGING'
esac

: argument order is deliberate, as the flag will start with - which set could
: think is an option
checkccflag='check=$1; flag=$2; callback=$3;
echo " ";
```

```
echo "Checking if your compiler accepts $flag" >&4;
[ "X$sysroot" != "X" ] && echo "For sysroot = $sysroot";
echo "int main(void) { return 0; }" > gcctest.c;
if $cc $_sysroot -O2 $flag -o gcctest gcctest.c 2>gcctest.out && $run ./gcctest; then
   echo "Yes, it does." >&4;
   if $test -s gcctest.out ; then
       echo "But your platform does not like it:";
       cat gcctest.out;
   else
 case "$ccflags" in
 *$check*)

    echo "Leaving current flags $ccflags alone." >&4
     ;;
 *) dflt="$dflt $flag";
     eval $callback
     ;;
 esac
   fi
else
   echo "Nope, it does not, but that is ok." >&4;
fi
'

: We will not override a previous value, but we might want to
: augment a hint file
case "$hint" in
default|recommended)
 case "$gccversion" in
 1.*) dflt="$dflt -fpcc-struct-return" ;;
 esac
 case "$optimize:$DEBUGGING" in
 *-g*:old) dflt="$dflt -DDEBUGGING";;
 esac
?X: check for POSIXized ISC
 case "$gccversion" in
 2.*) if $test -d /etc/conf/kconfig.d &&
   $contains _POSIX_VERSION $usrinc/sys/unistd.h >/dev/null 2>&1
  then
   # Interactive Systems (ISC) POSIX mode.
   dflt="$dflt -posix"
  fi
  ;;
 esac
?X: If the user has gcc-2.95 or greater, try adding -fno-strict-alias.
?X: Since the gcc "version" can be non-numeric, e.g.
?X: "2.95.1 19990809 (prerelease)" , we'll do the test on any version
?X: greater than 2.8.
```

```
?X: --Andy Dougherty  27 Aug 1999
 case "$gccversion" in
 1.*) ;;
 2.[0-8]*)
 ;;
 ?*) set strict-aliasing -fno-strict-aliasing
  eval $checkccflag
  ;;
 esac
?X: HMB 200405
?X: -pipe has shown a compile time speedup of about 40% on Linux and HP-UX
?X: and also worked on cygwin-1.5.9
?X: If a system fails, disable it in the hints. 99% of gcc uses binutils
 # For gcc, adding -pipe speeds up compilations for some, but apparently
 # some assemblers can't read from stdin.  (It also slows down compilations
 # in other cases, but those are apparently rarer these days.)  AD 5/2004.
 case "$gccversion" in
 ?*) set pipe -pipe
  eval $checkccflag
  ;;
 esac

?X: NWC 200712
 # on x86_64 (at least) we require an extra library (libssp) in the
 # link command line. This library is not named, so I infer that it is
 # an implementation detail that may change. Hence the safest approach
 # is to add the flag to the flags passed to the compiler at link time,
 # as that way the compiler can do the right implementation dependant
 # thing. (NWC)
 case "$ccflags" in
 *-fno-stack-protector*)

   echo "Do not add -fstack-protector nor -fstack-protector-strong" 2>&1
    ;;
 *) case "$gccversion" in
   ?*) set stack-protector-strong -fstack-protector-strong
  eval $checkccflag
  case "$dflt" in
  *-fstack-protector-strong*) ;; # It got added.
  *) # Try the plain/older -fstack-protector.
    set stack-protector -fstack-protector
    eval $checkccflag
    ;;
  esac
  ;;
    esac
    ;;
 esac
```

```
esac

?X: In USG mode, a MIPS system may need some BSD includes
case "$mips_type" in
*BSD*|") inclwanted="$locincpth $usrinc";;
*) inclwanted="$locincpth $inclwanted $usrinc/bsd";;
esac
for thisincl in $inclwanted; do
 if $test -d $thisincl; then
  if $test x$thisincl != x$usrinc; then
   case "$dflt" in
   *" -I$thisincl "*);;
   *) dflt="$dflt -I$thisincl ";;
   esac
  fi
 fi
done

?X: Include test function (header, symbol)
inctest='if $contains $2 $usrinc/$1 >/dev/null 2>&1; then
 xxx=true;
elif $contains $2 $usrinc/sys/$1 >/dev/null 2>&1; then
 xxx=true;
else
 xxx=false;
fi;
if
 $xxx; then
 case "$dflt" in
 *$2*);;
 *) dflt="$dflt -D$2";;
 esac;
fi'

set signal.h LANGUAGE_C; eval $inctest

case "$usesocks" in
$define)
 ccflags="$ccflags -DSOCKS"
 ;;
esac

case "$hint" in
default|recommended) dflt="$ccflags $dflt" ;;
*) dflt="$ccflags";;
esac

case "$dflt" in
```

```
"|' ') dflt=none;;
esac

$cat <<EOH

Your C compiler may want other flags.  For this question you should include
-I/whatever and -DWHATEVER flags and any other flags used by the C compiler,
but you should NOT include libraries or ld flags like -lwhatever.  If you
want $package to honor its debug switch, you should include -DDEBUGGING here.
Your C compiler might also need additional flags, such as -D_POSIX_SOURCE.

To use no flags, specify the word "none".

EOH
?X: strip leading space
set X $dflt
shift
dflt=${1+"$@"}
rp="Any additional cc flags?"
. ./myread
case "$ans" in
none) ccflags="";;
*) ccflags="$ans";;
esac

: the following weeds options from ccflags that are of no interest to cpp
case
 "$cppflags" in
") cppflags="$ccflags" ;;
*)  set X $ccflags; shift
   case " $cppflags " in
   *" $1 "*) ;;  # Try to avoid doubling the cppflags.
   *) cppflags="$cppflags $ccflags" ;;
   esac
   ;;
esac
case "$gccversion" in
1.*) cppflags="$cppflags -D__GNUC__"
esac
case "$mips_type" in
");;
*BSD*) cppflags="$cppflags -DSYSTYPE_BSD43";;
esac
case "$cppflags" in
");;
*)
 echo " "
 echo "Let me guess what the preprocessor flags are..." >&4
```

```
 set X $cppflags
 shift
 cppflags=''
 $cat >cpp.c <<'EOM'
#define BLURFL foo

BLURFL xx LFRULB
EOM
?X:
?X: For each cc flag, try it out with both cppstdin and cpprun, since the
?X: first is almost surely a cc wrapper. We have to try both in case
?X: of cc flags like '-Olimit 2900' that are actually two words...
?X:
 previous=''
 for flag in $*
 do
  case "$flag" in
  -*) ftry="$flag";;
  *) ftry="$previous $flag";;
  esac
  if $cppstdin -DLFRULB=bar $cppflags $ftry $cppminus <cpp.c \
   >cpp1.out 2>/dev/null && \
   $cpprun -DLFRULB=bar $cppflags
 $ftry $cpplast <cpp.c \
   >cpp2.out 2>/dev/null && \
   $contains 'foo.*xx.*bar' cpp1.out >/dev/null 2>&1 && \
   $contains 'foo.*xx.*bar' cpp2.out >/dev/null 2>&1
  then
   cppflags="$cppflags $ftry"
   previous=''
  else
   previous="$flag"
  fi
 done
 set X $cppflags
 shift
 cppflags=${1+"$@"}
 case "$cppflags" in
 *-*)  echo "They appear to be: $cppflags";;
 esac
 $rm -f cpp.c cpp?.out
 ;;
esac

: flags used in final linking phase
case "$ldflags" in
'') if ./venix; then
  dflt='-i -z'
```

```
 else
  dflt=''
 fi
 case "$ccflags" in
 *-posix*) dflt="$dflt -posix" ;;
 esac
 ;;
*) dflt="$ldflags";;
esac
# See note above about -fstack-protector
case "$ccflags" in
*-fstack-protector-strong*)
 case "$dflt" in
 *-fstack-protector-strong*) ;; # Don't add it again
 *) dflt="$dflt -fstack-protector-strong" ;;
 esac
 ;;
*-fstack-protector*)
 case "$dflt" in
 *-fstack-protector*) ;; # Don't add it again
 *) dflt="$dflt -fstack-protector" ;;
 esac
 ;;
esac

: Try to guess additional flags to pick
 up local libraries.
for thislibdir in $libpth; do
 case " $loclibpth " in
 *" $thislibdir "*)
  case "$dflt " in
  *"-L$thislibdir "*) ;;
  *)  dflt="$dflt -L$thislibdir" ;;
  esac
  ;;
 esac
done

case "$dflt" in
'') dflt='none' ;;
esac

$cat <<EOH

Your C linker may need flags.  For this question you should
include -L/whatever and any other flags used by the C linker, but you
should NOT include libraries like -lwhatever.
```

```
Make sure you include the appropriate -L/path flags if your C linker
does not normally search all of the directories you specified above,
namely
 $libpth
To use no flags, specify the word "none".

EOH

rp="Any additional ld flags (NOT including libraries)?"
. ./myread
case "$ans" in
none) ldflags="";;
*) ldflags="$ans";;
esac
rmlist="$rmlist pdp11"

@if lkflags
: partial linking may need other flags
case "$lkflags" in
") case "$ldflags" in
 ") dflt='none';;
 *) dflt="$ldflags";;
 esac;;
*) dflt="$lkflags";;
esac
echo " "
rp="Partial linking flags to be used (NOT
 including -r)?"
. ./myread
case "$ans" in
none) lkflags="";;
*) lkflags="$ans";;
esac

@end
?X:
?X: If the user changes compilers after selecting a hint file, it's
?X: possible that the suggested ccflags/ldflags will be wrong.  Try to
?X: compile and run a simple test program.  Let the user see all the
?X: error messages. -- ADO and RAM
?X: Sometimes, particularly on Linux systems, there is a bad library
?X: (e.g. a dangling symlink or incompatible library or a "run-time"
?X: version but not a "development" version of a library).  This test
?X: will catch those sorts of problems too, though how to fix them
?X: may not be obvious.
?X:
: coherency check
echo " "
```

```
echo "Checking your choice of C compiler and flags for coherency..." >&4
$cat > try.c <<'EOF'
#include <stdio.h>
int main() { printf("Ok\n"); return(0); }
EOF
?X: Strip extra blanks in case some of the following variables are empty
set X $cc -o try $optimize $ccflags $ldflags try.c $libs
shift
$cat >try.msg <<'EOM'
I've tried to
 compile and run the following simple program:

EOM
$cat try.c >> try.msg

$cat >> try.msg <<EOM

I used the command:

 $*
 $run ./try

and I got the following output:

EOM
dflt=y
?X: Use "sh -c" to avoid error messages tagged with leading "Configure:".
?X: We need to try the resulting executable, because cc might yield a 0 status
?X: even when ld failed, in which case the executable will not run properly,
?X: if its x bit is set at all...
if $sh -c "$cc -o try $optimize $ccflags $ldflags try.c $libs" >>try.msg 2>&1; then
 if $sh -c "$run ./try " >>try.msg 2>&1; then
  xxx=`$run ./try`
  case "$xxx" in
  "Ok") dflt=n ;;
  *)    echo 'The program compiled OK, but produced no output.' >> try.msg ;;
  esac
 else
  echo "The program compiled OK, but exited with status $?." >>try.msg
  rp="You have a problem.  Shall I abort Configure"
  dflt=y
 fi
else
 echo "I can't compile the test program." >>try.msg
 rp="You have a BIG problem.  Shall I abort Configure"
 dflt=y
fi
case "$dflt" in
```

```
y)
 $cat
 try.msg >&4
?X: using -K will prevent default aborting--maybe they're cross compiling?
 case "$knowitall" in
 ")
  echo "(The supplied flags or libraries might be incorrect.)"
  ;;
 *) dflt=n;;
 esac
 echo " "
 . ./myread
 case "$ans" in
 n*|N*) ;;
 *) echo "Ok.  Stopping Configure." >&4
  exit 1
  ;;
 esac
 ;;
n) echo "OK, that should do.";;
esac
$rm_try gcctest gcctest.out
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/ccflags.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysparam.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysparam.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:22:43  ram
?RCS: patch32: created
?RCS:
?MAKE:i_sysparam: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysparam:
?S: This variable conditionally defines the I_SYS_PARAM symbol, and indicates
?S: whether a C program should include <sys/param.h>.
?S:.
```

```
?C:I_SYS_PARAM:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/param.h>.
?C:.
?H:#$i_sysparam I_SYS_PARAM  /**/
?H:.
?LINT:set
 i_sysparam
: see if this is a sys/param system
set sys/param.h i_sysparam
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sysparam.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: dlsrc.U,v$
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: dlsrc.U,v $
?RCS:
?X:  hpux support thanks to Jeff Okamoto <okamoto@hpcc101.corp.hp.com>
?X:
?X:  To create a shared library, you must compile ALL source files in the
?X:  library with +z (or possibly +Z if the library is whopping huge),
?X:  then link the library with -b.  Example:
?X:   cc -c +z module_a.c
?X:   cc -c +z module_b.c
?X:   ld -b module_a.o module_b.o -o module.sl
?X:
?MAKE:usedl ld dlsrc cccdlflags lddlflags ccdlflags bin_ELF ld_can_script: \
 rm_try Getfile Myread test osname sed d_dlopen Findhdr Setvar \
 src run cc ccflags ldflags optimize ls gccversion cat rsrc i_stdlib \
 i_unistd osvers sysroot
?MAKE: -pick add $@ %<
?Y:BOTTOM
?S:usedl:
?S: This variable
 indicates if the system supports dynamic
?S: loading of some sort.  See also dlsrc and dlobj.
?S:.
?S:ld:
?S: This variable indicates the program to be used to link
```

```
?S: libraries for dynamic loading.  On some systems, it is 'ld'.
?S: On ELF systems, it should be $cc.  Mostly, we'll try to respect
?S: the hint file setting.
?S:.
?S:dlsrc:
?S: This variable contains the name of the dynamic loading file that
?S: will be used with the package.
?S:.
?S:cccdlflags:
?S: This variable contains any special flags that might need to be
?S: passed with 'cc -c' to compile modules to be used to create a shared
?S: library that will be used for dynamic loading.  For hpux, this
?S: should be +z.  It is up to the makefile to use it.
?S:.
?S:lddlflags:
?S: This variable contains any special flags that might need to be
?S: passed to $ld to create a shared library suitable for dynamic
?S: loading.  It is up to the makefile to use it.  For hpux, it
?S: should be '-b'.  For sunos 4.1, it is empty.
?S:.
?S:ccdlflags:
?S: This
 variable contains any special flags that might need to be
?S: passed to cc to link with a shared library for dynamic loading.
?S: It is up to the makefile to use it.  For sunos 4.1, it should
?S: be empty.
?S:.
?S:bin_ELF:
?S: This variable saves the result from configure if generated binaries
?S: are in ELF format. Only set to defined when the test has actually
?S: been performed, and the result was positive.
?S:.
?S:ld_can_script:
?S: This variable shows if the loader accepts scripts in the form of
?S: -Wl,--version-script=ld.script. This is currently only supported
?S: for GNU ld on ELF in dynamic loading builds.
?S:.
?C:USE_DYNAMIC_LOADING ~ %<:
?C: This symbol, if defined, indicates that dynamic loading of
?C: some sort is available.
?C:.
?H:?%<:#$usedl USE_DYNAMIC_LOADING  /**/
?H:.
?W:%<:dlopen
?T:dldir thisflag tdir
?F:!a.out
: determine which dynamic loading, if any, to compile in
echo " "
```

```
dldir="ext/DynaLoader"
case "$usedl" in
   $define|y|true)
 dflt='y'
 usedl="$define"
 ;;
    $undef|n|false)
 dflt='n'
 usedl="$undef"
 ;;
   *)
 dflt='n'
 case "$d_dlopen" in
     $define) dflt='y' ;;
 esac
 : Does a dl_xxx.xs file exist for this operating system
 $test -f $rsrc/$dldir/dl_${osname}.xs && dflt='y'
 ;;
esac
rp="Do you wish to use dynamic loading?"
. ./myread
usedl="$ans"
bin_ELF="$undef"
case "$ans" in
   y*) usedl="$define"
 case "$dlsrc" in
     ") if $test -f $rsrc/$dldir/dl_${osname}.xs ; then
      dflt="$dldir/dl_${osname}.xs"
  elif $test "$d_dlopen" = "$define" ; then
      dflt="$dldir/dl_dlopen.xs"
  else
      dflt="
  fi
  ;;
     *)  dflt="$dldir/$dlsrc"
  ;;
 esac
 echo "The following dynamic loading files are available:"
 : Can not go over to $dldir because getfile has path hard-coded in.
 tdir=`pwd`; cd "$rsrc"; $ls -C $dldir/dl*.xs; cd "$tdir"
 rp="Source file to use for dynamic loading"
 fn="fne"
 gfpth="$src"
 . ./getfile
 usedl="$define"
 : emulate basename
 dlsrc=`echo $ans | $sed -e 's%.*/\([^/]*\)$%\1%'`
```

```
$cat
<< EOM

Some systems may require passing special flags to $cc -c to
compile modules that will be used to create a shared library.
To use no flags, say "none".

EOM
 case "$cccdlflags" in
     ") case "$gccversion" in
  ") case "$osname" in
  hpux) dflt='+z' ;;
  irix*) dflt='-KPIC' ;;
  svr4*|esix*|solaris|nonstopux) dflt='-KPIC' ;;
  sunos) dflt='-pic' ;;
  *) dflt='none' ;;
     esac
     ;;
 *)  case "$osname" in
  darwin) dflt='none' ;;
  *linux*|svr4*|esix*|solaris|nonstopux) dflt='-fPIC' ;;
  *) dflt='-fpic' ;;
     esac ;;
 esac ;;
    ' ') dflt='none' ;;
    *)   dflt="$cccdlflags" ;;
 esac

 case "$dflt" in
    none) dflt=" ;;
 esac

 # If -Dsysroot was specified, now's the time to add it
 # to cccdlflags
 if test "X$sysroot" != X; then
    case "$gccversion" in
  ") ;;
  *)  case "$dflt" in
   *sysroot*) ;;
   'undef'|*)
      dflt="$dflt --sysroot=$sysroot" ;;
     esac
     ;;
    esac
 fi

 case "$dflt" in
    ") dflt='none';;
```

```
 esac

 rp="Any
 special flags to pass to $cc -c to compile shared library modules?"
 . ./myread
 case "$ans" in
?X: Use ' ' so that a subsequent Configure run preserves the old state.
     none) cccdlflags=' ' ;;
     *)    cccdlflags="$ans" ;;
 esac

 cat << EOM

Some systems use ld to create libraries that can be dynamically loaded,
while other systems (such as those using ELF) use $cc.

EOM

: Determine if this is ELF
 $cat >try.c <<EOM
/* Test for whether ELF binaries are produced */
#include <fcntl.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_unistd I_UNISTD
#ifdef I_UNISTD
#include <unistd.h>
#endif
int main() {
   char b[4];
   int i = open("a.out",O_RDONLY);
   if(i == -1)
 exit(1); /* fail */
   if(read(i,b,4)==4 && b[0]==127 && b[1]=='E' && b[2]=='L' && b[3]=='F')
 exit(0); /* succeed (yes, it is ELF) */
   exit(1); /* fail */
}
EOM
 if $cc $ccflags $ldflags -o a.out try.c >/dev/null 2>&1 && $run ./a.out; then
     bin_ELF="$define"
 fi
 $rm_try

 case "$ld" in
```

```
    ") if $test $bin_ELF = "$define"; then
      cat <<EOM
You appear to have ELF support.  I'll use $cc to build dynamic libraries.
EOM
      dflt="$cc"
  else
      echo "I'll use ld to build dynamic libraries."
      dflt='ld'
  fi
  ;;
    *)  dflt="$ld"
  ;;
 esac

 rp="What command should be used to create dynamic libraries?"
 . ./myread
 ld="$ans"

 cat << EOM

Some systems may require passing special flags to $ld to create a
library that can be dynamically loaded.  If your ld flags include
-L/other/path options to locate libraries outside your loader's normal
search path, you may need to specify those -L options here as well.  To
use no flags, say "none".

EOM
 case "$lddlflags" in
     ") case "$osname" in
      haiku) dflt='-shared' ;;
      hpux) dflt='-b';
     case "$gccversion" in
         ") dflt="$dflt +vnocompatwarnings" ;;
     esac
     ;;
      *linux*|irix*|gnu*)  dflt="-shared $optimize" ;;
      solaris) # See [perl #66604].
       # On Solaris 11, gcc -m64
 on amd64
       # appears not to understand -G.  gcc versions at
       # least as old as 3.4.3 support -shared, so just
       # use that with Solaris 11 and later, but keep
       # the old behavior for older Solaris versions.
       case "$gccversion" in
    ") dflt='-G' ;;
    *)  case "$osvers" in
     2.?|2.10) dflt='-G' ;;
     *) dflt='-shared' ;;
```

```
        esac
        ;;
       esac
       ;;
      sunos) dflt='-assert nodefinitions' ;;
      svr4*|esix*|nonstopux) dflt="-G $ldflags" ;;
      *)     dflt='none' ;;
 esac
 ;;
    *) dflt="$lddlflags" ;;
esac

: Only do this for gcc, since, for example, qcc has no concept
: of --sysroot.
if $test "X$sysroot" != X; then
    case "$gccversion" in
 ") ;;
 *)  dflt="$dflt --sysroot=$sysroot" ;;
    esac
fi

: Try to guess additional flags to pick up local libraries.
: Be careful not to append to a plain 'none'
case "$dflt" in
    none) dflt=" ;;
esac
for thisflag in $ldflags; do
    case "$thisflag" in
 -L*|-R*|-Wl,-R*)

   case " $dflt " in
  *" $thisflag "*) ;;
  *) dflt="$dflt $thisflag" ;;
     esac
     ;;
    esac
done

case "$dflt" in
    "|' ') dflt='none' ;;
esac

case "$ldflags" in
    *-fstack-protector-strong*)
 case "$dflt" in
     *-fstack-protector-strong*) ;; # Don't add it again
     *) dflt="$dflt -fstack-protector-strong" ;;
 esac
```

```
 ;;
    *-fstack-protector*)
 case "$dflt" in
     *-fstack-protector*) ;; # Don't add it again
     *) dflt="$dflt -fstack-protector" ;;
 esac
 ;;
esac

rp="Any special flags to pass to $ld to create a dynamically loaded library?"
. ./myread
case "$ans" in
?X: Use ' ' so that a subsequent Configure run preserves the old state.
    none) lddlflags=' ' ;;
    *) lddlflags="$ans" ;;
esac

cat <<EOM

Some systems may require passing special flags to $cc to indicate that
the resulting executable will use dynamic linking.  To use no flags,
say "none".

EOM
case "$ccdlflags" in
    ") case "$osname" in
     *linux*|hpux|gnu*)
dflt='-Wl,-E' ;;
     sunos)             dflt='none'   ;;
     *)                 dflt='none'   ;;
 esac ;;
    ' ') dflt='none' ;;
    *)   dflt="$ccdlflags" ;;
esac
rp="Any special flags to pass to $cc to use dynamic linking?"
. ./myread
case "$ans" in
?X: Use ' ' so that a subsequent Configure run preserves the old state.
    none) ccdlflags=' ' ;;
    *)    ccdlflags="$ans" ;;
esac
;;
?X: End of usedl=y section

  *)  usedl="$undef"
ld='ld'
dlsrc='dl_none.xs'
lddlflags="
```

```
 ccdlflags="
 ;;
esac

ld_can_script="$undef"
case "$bin_ELF$usedl" in
   $define$define)
 # Abuse try.h and a.out names for neat cleanup
 $cat >try.c <<EOM
void foo() {}
void bar() {}
EOM
 $cat >try.h <<EOM
LIBTEST_42 {
global:
 foo;
local: *;
};
EOM
 if $cc $cccdlflags $ccdlflags $ccflags \
        $ldflags $lddlflags -o a.out try.c \
        -Wl,--version-script=try.h >/dev/null 2>&1 \
    &&  $test -s a.out ; then
     echo "ld supports scripting" >&4
     ld_can_script="$define"
 else

    echo "ld does not support scripting" >&4
 fi
 $rm_try
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/dlsrc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Cygnus Support
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: Original Author: Tom Tromey <tromey@cygnus.com>
?RCS:
?RCS: $Log: src.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:23:54  ram
?RCS: patch61: created
?RCS:
?MAKE:src +rsrc: Options package contains
?MAKE: -pick add $@ %<
?Y:TOP
?S:src (srcdir):
?S: This variable holds the (possibly relative) path of the package source.
?S: It is up to the Makefile to use this variable and set VPATH accordingly
?S: to find the sources remotely.  Use $pkgsrc to have an absolute path.
?S:.
?S:rsrc
 (relsrcdir):
?S: This variable holds a potentially relative path to the package
?S: source.  The contents are correct for the configuration environment,
?S: i.e. there might be an extra .. prepended to get out of the UU dir.
?S: Configure units should use this, not the src variable.
?S:.
: Find the path to the source tree
case "$src" in
") case "$0" in
   */*) src=`echo $0 | sed -e 's%/[^/][^/]*$%%'`
        case "$src" in
  /*) ;;
  .) ;;
        *) src=`cd ../$src && pwd` ;;
  esac
        ;;
   *)   src='.';;
   esac;;
esac
case "$src" in
") src=/
 rsrc=/
 ;;
/*) rsrc="$src";;
*) rsrc="../$src";;
esac
?X:
?X: Now check whether we have found the right source tree (i.e. the one for the
?X: package we're about to configure). The original unit from Tom Tromey forced
?X: the user to pick a unique file from his distribution, and we were merely
?X: checking the existence of that file. I prefer to rely on Configure (which
?X: we know *is* present since this unit is
```

```
 part of it!) and look for the
?X: definition of the package variable, making sure it's the same as ours.
?X: If it matches, we know we found the right source tree. -- RAM, 15/03/96
?X:
if test -f $rsrc/Configure && \
 $contains "^package='$package'\$" $rsrc/Configure >/dev/null 2>&1
then
  : found it, so we are ok.
else
?X: Otherwise try "." and up to 4 parent directories...
?X: Note that we prepend a ".." to get out of the configuration environment.
 rsrc=''
 for src in . .. ../.. ../../.. ../../../..; do
  if test -f ../$src/Configure && \
   $contains "^package=$package$" ../$src/Configure >/dev/null 2>&1
  then
   rsrc=../$src
   break
  fi
 done
fi
case "$rsrc" in
'')
 cat <<EOM >&4

Sorry, I can't seem to locate the source dir for $package.  Please start
Configure with an explicit path -- i.e. /some/path/Configure.

EOM
 exit 1
 ;;
?X: Don't echo anything if the sources are in . -- they should know already ;-)
?X: In that case, rsrc is ../. since we lookup from within UU
../.) rsrc='..';;
*)
 echo
 " "
 echo "Sources for $package found in \"$src\"." >&4
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/src.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sbrk.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sbrk.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:06:31  ram
?RCS: patch16: created
?RCS:
?MAKE:d_sbrk: Inlibc
?MAKE: -pick add $@ %<
?S:d_sbrk:
?S: This variable conditionally defines HAS_SBRK if sbrk() is
?S: available to add more core to the process.
?S:.
?C:HAS_SBRK:
?C: This symbol, if defined, indicates that the sbrk system call is
?C: available to add/relase core. Always true on Unix.
?C:.
?H:#$d_sbrk HAS_SBRK /**/
?H:.
?LINT:set d_sbrk
: see
 if sbrk exists
set sbrk d_sbrk
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sbrk.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: orderlib.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  16:18:18  ram
?RCS: patch61: replaced .a with $_a all over the place
```

```
?RCS: patch61: likewise for .o replaced by $_o
?RCS: patch61: now uses the ar located by Loc.U
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:33:04  ram
?RCS: patch45: allows hint files to specify their own value for 'ranlib'
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:26:48  ram
?RCS: patch36: now performs a real small compile for accurate checks (ADO)
?RCS:
?RCS: Revision 3.0.1.1
  1994/08/29  16:31:17  ram
?RCS: patch32: use cc variable instead of hardwired 'cc' in 1st compile
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:orderlib ranlib: Loc ar cat test rm +cc +ccflags +ldflags +libs _a _o
?MAKE: -pick add $@ %<
?S:orderlib:
?S: This variable is "true" if the components of libraries must be ordered
?S: (with `lorder $* | tsort`) before placing them in an archive.  Set to
?S: "false" if ranlib or ar can generate random libraries.
?S:.
?S:ranlib:
?S: This variable is set to the pathname of the ranlib program, if it is
?S: needed to generate random libraries.  Set to ":" if ar can generate
?S: random libraries or if random libraries are not supported
?S:.
?F:!foobar
: see if ar generates random libraries by itself
echo " "
echo "Checking how to generate random libraries on your machine..." >&4
?X: Some systems (like MIPS) complain when running ar... Others like Ultrix
?X: need an explicit 'ar ts'
 to add the table of contents.
?X: Still others like Linux run ar ts successfully, but still need ranlib.
?X: This set of tests seems the minimum necessary to check out Linux.
?X: We need to explicitly put the entries in out-of-order so that Sun's ld
?X: will fail.  (Otherwise it complains, but gives an exit status of 0.)
echo 'int bar1() { return bar2(); }' > bar1.c
echo 'int bar2() { return 2; }' > bar2.c
$cat > foo.c <<'EOP'
int main() { printf("%d\n", bar1()); exit(0); }
EOP
$cc $ccflags -c bar1.c >/dev/null 2>&1
$cc $ccflags -c bar2.c >/dev/null 2>&1
$cc $ccflags -c foo.c >/dev/null 2>&1
$ar rc bar$_a bar2$_o bar1$_o >/dev/null 2>&1
```

```
if $cc $ccflags $ldflags -o foobar foo$_o bar$_a $libs > /dev/null 2>&1 &&
 ./foobar >/dev/null 2>&1; then
 echo "ar appears to generate random libraries itself."
 orderlib=false
 ranlib=":"
elif $ar ts bar$_a >/dev/null 2>&1 &&
 $cc $ccflags $ldflags -o foobar foo$_o bar$_a $libs > /dev/null 2>&1 &&
 ./foobar >/dev/null 2>&1; then
  echo "a table of contents
 needs to be added with 'ar ts'."
  orderlib=false
  ranlib="$ar ts"
else
?X: Allow hints to specify their own ranlib "script". For instance, on
?X: some NeXT machines, the timestamp put by ranlib is not correct, and this
?X: may raise tedious recompiles for nothing. Therefore, NeXT may add the
?X: ranlib='sleep 5; /bin/ranlib' line in their hints to "fix" that.
?X: (reported by Andreas Koenig <k@franz.ww.tu-berlin.de>)
 case "$ranlib" in
 :) ranlib=";;
 ")
  ranlib=`./loc ranlib X /usr/bin /bin /usr/local/bin`
  $test -f $ranlib || ranlib="
  ;;
 esac
 if $test -n "$ranlib"; then
  echo "your system has '$ranlib'; we'll use that."
  orderlib=false
 else
  echo "your system doesn't seem to support random libraries"
  echo "so we'll use lorder and tsort to order the libraries."
  orderlib=true
  ranlib=":"
 fi
fi
$rm -f foo* bar*
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/orderlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
?MAKE:uselongdouble: Myread Oldconfig Setvar cat test usemorebits
?MAKE: -pick add $@ %<
?Y:TOP
?S:uselongdouble:
?S: This variable conditionally defines the USE_LONG_DOUBLE symbol,
?S: and indicates that long doubles should be used when available.
?S:.
?C:USE_LONG_DOUBLE:
?C: This symbol, if defined, indicates that long doubles should
?C: be used when available.
?C:.
?H:?%<:#ifndef USE_LONG_DOUBLE
?H:?%<:#$uselongdouble USE_LONG_DOUBLE  /**/
?H:?%<:#endif
?H:.
?LINT:extern ccflags
?LINT:use usemorebits
?F:!uselongdouble.cbu
: Check for uselongdouble support
case "$ccflags" in
*-DUSE_LONG_DOUBLE*|*-DUSE_MORE_BITS*) uselongdouble="$define" ;;
esac

case "$uselongdouble" in
$define|true|[yY]*) dflt='y';;
*)
 dflt='n';;
esac
cat <<EOM

Perl can be built to take advantage of long doubles which
(if available) may give more accuracy and range for floating point numbers.

If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp='Try to use long doubles if available?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*)      val="$undef" ;;
esac
set uselongdouble
eval $setvar

case "$uselongdouble" in
true|[yY]*) uselongdouble="$define" ;;
esac
```

```
: Look for a hint-file generated 'call-back-unit'.  If the
: user has specified that long doubles should be used,
: we may need to set or change some other defaults.
if $test -f uselongdouble.cbu; then
   echo "Your platform has some specific hints regarding long doubles, using them..."
   . ./uselongdouble.cbu
else
   case "$uselongdouble" in
 $define)
  $cat <<EOM
(Your platform does not have any specific hints for long doubles.)
EOM
 ;;
   esac
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/uselongdbl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_systypes.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_systypes.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:41  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Look wether <sys/types.h> needs to be included.
?X:
?MAKE:i_systypes: Inhdr
?MAKE: -pick add $@ %<
?S:i_systypes:
?S: This variable conditionally defines the I_SYS_TYPES symbol,
?S: and indicates whether a C program should include <sys/types.h>.
?S:.
?C:I_SYS_TYPES (I_SYSTYPES):
?C: This symbol, if defined, indicates to the C program
```

```
 that it should
?C: include <sys/types.h>.
?C:.
?H:#$i_systypes I_SYS_TYPES  /**/
?H:.
?LINT:set i_systypes
: see if sys/types.h has to be included
set sys/types.h i_systypes
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_systypes.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setpent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_setpent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setpent: Inlibc
?MAKE: -pick add $@ %<
?S:d_setpent:
?S: This variable conditionally defines HAS_SETPROTOENT if setprotoent() is
?S: available.
?S:.
?C:HAS_SETPROTOENT:
?C: This symbol, if defined, indicates that the setprotoent() routine is
?C: available.
?C:.
?H:#$d_setpent HAS_SETPROTOENT  /**/
?H:.
?LINT:set d_setpent
: see if setprotoent
 exists
set setprotoent d_setpent
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_setpent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Whoa.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:21:21  ram
?RCS: patch61: whoa script now starts with leading "startsh"
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:02:01  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to warn the user in case a change into a variable is noticed.
?X:
?X: To use this
 unit, $was must hold the old value that has changed. Upon
?X: exit, the two variables $td and $tu are set to the correct value for
?X: respectively defining or undefining a variable. For instance, if $vas was
?X: $undef, but now $var is $define, after calling . whoa, you should use
?X: eval "$var=\$tu" to finally set $var to the correct value. See unit Inlibc.
?X:
?MAKE:Whoa: Myread startsh hint
?MAKE: -pick add $@ %<
?F:./whoa
?T:var was
?LINT:change td tu
: set up the script used to warn in case of inconsistency
cat <<EOS >whoa
$startsh
EOS
cat <<'EOSC' >>whoa
dflt=y
echo " "
echo "*** WHOA THERE!!! ***" >&4
```

```
echo "    The $hint value for \$$var on this machine was \"$was\"!" >&4
rp="    Keep the $hint value?"
. ./myread
case "$ans" in
y) td=$was; tu=$was;;
esac
EOSC
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Whoa.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, 2012 Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:intsize longsize shortsize: Assert Myread cat rm_try +cc +ccflags echo n c
?MAKE: -pick add $@ %<
?S:intsize:
?S: This variable contains the value of the INTSIZE symbol, which
?S: indicates to the C program how many bytes there are in an int.
?S:.
?S:longsize:
?S: This variable contains the value of the LONGSIZE symbol, which
?S: indicates to the C program how many bytes there are in a long.
?S:.
?S:shortsize:
?S: This variable contains the value of the SHORTSIZE symbol which
?S: indicates to the
 C program how many bytes there are in a short.
?S:.
?C:INTSIZE:
?C: This symbol contains the value of sizeof(int) so that the C
?C: preprocessor can make decisions based on it.
?C:.
?C:LONGSIZE:
?C: This symbol contains the value of sizeof(long) so that the C
?C: preprocessor can make decisions based on it.
?C:.
?C:SHORTSIZE:
?C: This symbol contains the value of sizeof(short) so that the C
```

```
?C: preprocessor can make decisions based on it.
?C:.
?H:#define INTSIZE $intsize
?H:#define LONGSIZE $longsize
?H:#define SHORTSIZE $shortsize
?H:.
?T:types t size var
?LINT: set shortsize intsize longsize
: check for lengths of integral types
echo " "
types=''
@if SHORTSIZE || shortsize
types="$types short"
@end
@if INTSIZE || intsize
types="$types int"
@end
@if LONGSIZE || longsize
types="$types long"
@end
for t in $types; do
 $echo $n "Checking to see how big your ${t}s are...$c" >&4
 for size in 2 4 8 16 error; do
  $cat >try.c <<EOCP
#include "static_assert.h"
$t foo;
int main()
{
 STATIC_ASSERT($size
 == sizeof(foo));
 return 0;
}
EOCP
  if $cc -c $ccflags try.c >/dev/null 2>&1; then break; fi
 done
 var=${t}size
 case "$size" in
 error)
  echo " cannot compute it." >&4
  case $t in
  short) dflt=2;;
  int) dflt=4;;
  long) dflt=4;;
  esac
  rp="What is the size of the \"$t\" type (in bytes)?"
  . ./myread
  eval $var="$ans"
  ;;
```

```
 *)
  echo " $size bytes." >&4
  eval $var=$size
  ;;
 esac
done
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/intsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_remquo: Inlibc
?MAKE: -pick add $@ %<
?S:d_remquo:
?S: This variable conditionally defines the HAS_REMQUO symbol, which
?S: indicates to the C program that the remquo() routine is available.
?S:.
?C:HAS_REMQUO:
?C: This symbol, if defined, indicates that the remquo routine is
?C: available to return the remainder and part of quotient.
?C:.
?H:#$d_remquo HAS_REMQUO  /**/
?H:.
?LINT:set d_remquo
: see if remquo exists
set remquo d_remquo
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_remquo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
```

```
?RCS: $Log: d_getpent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getpent: Inlibc
?MAKE: -pick add $@ %<
?S:d_getpent:
?S: This variable conditionally defines HAS_GETPROTOENT if getprotoent() is
?S: available to look up protocols in some data base or another.
?S:.
?C:HAS_GETPROTOENT:
?C: This symbol, if defined, indicates that the getprotoent() routine is
?C: available to look up protocols in some data base
 or another.
?C:.
?H:#$d_getpent HAS_GETPROTOENT  /**/
?H:.
?LINT:set d_getpent
: see if getprotoent exists
set getprotoent d_getpent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_getpent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpwent.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_getpwent.U,v $
?RCS:
?MAKE:d_getpwent: Inlibc
?MAKE: -pick add $@ %<
?S:d_getpwent:
?S: This variable conditionally defines the HAS_GETPWENT symbol, which
?S: indicates to the C program that the getpwent() routine is available
?S: for sequential access of the passwd database.
?S:.
?C:HAS_GETPWENT:
?C: This symbol, if defined, indicates that the getpwent routine is
?C: available for sequential access of the passwd database.
?C: If this is not available, the older getpw() function may be available.
?C:.
```

```
?H:#$d_getpwent HAS_GETPWENT  /**/
?H:.
?LINT:set d_getpwent
: see if getpwent exists
set getpwent d_getpwent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_getpwent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_syswait.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_syswait.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit looks wether <sys/wait.h> is available or not
?X:
?MAKE:i_syswait: Inhdr
?MAKE: -pick add $@ %<
?S:i_syswait:
?S: This variable conditionally defines I_SYS_WAIT, which indicates
?S: to the C program that it should include <sys/wait.h>.
?S:.
?C:I_SYS_WAIT (I_SYSWAIT):
?C: This symbol, if defined, indicates to the C program
 that it should
?C: include <sys/wait.h>.
?C:.
?H:#$i_syswait I_SYS_WAIT /**/
?H:.
?LINT:set i_syswait
: see if this is a syswait system
set sys/wait.h i_syswait
eval $inhdr
```

Found in path(s):

* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_syswait.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: perl5.U,v $
?RCS:
?RCS: Copyright (c) 2000 Andrew Dougherty
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: perl5.U,v $
?RCS:
?X:
?X: The purpose of this unit is to locate a previously installed
?X: version of perl5 suitable for running inc_version_list.U.
?X: We check for 5.005 and later because inc_version_list is
?X: irrelevant for earlier versions.
?X:
?MAKE:perl5: path_sep binexp test sed exe_ext
?MAKE: -pick add $@ %<
?Y:TOP
?S:perl5:
?S: This variable contains the full path (if any) to a previously
?S: installed perl5.005 or later suitable for running the script
?S: to determine inc_version_list.
?S:.
?T: tdir
: Find perl5.005 or later.
echo "Looking for a previously installed perl5.005 or later... "
case "$perl5" in
") for tdir in `echo "$binexp$path_sep$PATH" | $sed "s/$path_sep/
 /g"`; do
  : Check if this perl is recent and can load a simple module
  if $test -x $tdir/perl$exe_ext && $tdir/perl -Mless -e 'use 5.005;' >/dev/null 2>&1; then
   perl5=$tdir/perl
   break;
  elif $test -x $tdir/perl5$exe_ext && $tdir/perl5 -Mless -e 'use 5.005;' >/dev/null 2>&1; then
   perl5=$tdir/perl5
   break;
  fi
 done
 ;;
*) perl5="$perl5"
 ;;
esac
case "$perl5" in
") echo "None found.  That's ok.";;
```

```
*) echo "Using $perl5." ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/perl5.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: fpostype.U,v 3.0.1.2 1994/08/29 16:20:52 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: fpostype.U,v $
?RCS: Revision 3.0.1.2  1994/08/29  16:20:52  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:59:59  ram
?RCS: patch30: created
?RCS:
?MAKE:fpostype: Myread Typedef
?MAKE: -pick add $@ %<
?S:fpostype:
?S: This variable defines Fpos_t to be something like fpos_t, long,
?S: uint, or whatever type is used to declare file positions in libc.
?S:.
?C:Fpos_t:
?C: This symbol holds
 the type used to declare file positions in libc.
?C: It can be fpos_t, long, uint, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Fpos_t $fpostype  /* File position type */
?H:.
?LINT:set fpostype
: see what type file positions are declared as in the library
rp="What is the type for file position used by fsetpos()?"
set fpos_t fpostype long stdio.h sys/types.h
eval $typedef_ask
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/fpostype.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysmman.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:11:20  ram
?RCS: patch16: created
?RCS:
?X:
?X: Look wether <sys/mman.h> needs to be included.
?X:
?MAKE:i_sysmman: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysmman:
?S: This variable conditionally defines the I_SYS_MMAN symbol,
?S: and indicates whether a C program should include <sys/mman.h>.
?S:.
?C:I_SYS_MMAN:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/mman.h>.
?C:.
?H:#$i_sysmman I_SYS_MMAN  /**/
?H:.
?LINT:set
 i_sysmman
: see if sys/mman.h has to be included
set sys/mman.h i_sysmman
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sysmman.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Null.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Null.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:10  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit ends up producing shell code to set all variables to ".  This
?X: probably isn't necessary, but I'm paranoid.  About certain things.
?X:
?MAKE:Null: Head
?MAKE: -pick add.Null $@ %<
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Null.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_system.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_system.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_system: Inlibc
?MAKE: -pick add $@ %<
?S:d_system:
?S: This variable conditionally defines HAS_SYSTEM if system() is
?S: available to issue a shell command.
?S:.
?C:HAS_SYSTEM (SYSTEM):
?C: This symbol, if defined, indicates that the system routine is
?C: available to issue a shell command.
?C:.
?H:#$d_system HAS_SYSTEM /**/
?H:.
?LINT:set
```

```
 d_system
: see if system exists
set system d_system
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_system.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_wait3.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_wait3.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_wait3: Inlibc
?MAKE: -pick add $@ %<
?S:d_wait3:
?S: This variable conditionally defines the HAS_WAIT3 symbol, which
?S: indicates to the C program that the wait3() subroutine exists.
?S:.
?C:HAS_WAIT3:
?C: This symbol, if defined, indicates that the wait3() subroutine
?C: exists.
?C:.
?H:#$d_wait3 HAS_WAIT3 /**/
?H:.
?LINT:set d_wait3
:
 see if 'wait3()' exists
set wait3 d_wait3
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_wait3.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2017, Karl Williamson
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_mbrtowc: Inlibc
?MAKE: -pick add $@ %<
?S:d_mbrtowc:
?S: This variable conditionally defines the HAS_MBRTOWC symbol if the
?S: mbrtowc() routine is available to be used to convert a multi-byte
?S: character into a wide character.
?S:.
?C:HAS_MBRTOWC:
?C: This symbol, if defined, indicates that the mbrtowc routine is
?C: available to convert a multi-byte character into a wide character.
?C:.
?H:#$d_mbrtowc HAS_MBRTOWC /**/
?H:.
?LINT: set d_mbrtowc
: see if mbrtowc exists
set mbrtowc d_mbrtowc
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_mbrtowc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getpwent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getpwent: Csym Setvar
?MAKE: -pick add $@ %<
?S:d_getpwent:
?S: This variable conditionally defines the HAS_GETPWENT symbol, which
```

```
?S: indicates to the C program that it should use the getpwent()
?S: routine instead of the getpw() routine.
?S:.
?C:HAS_GETPWENT (GETPWENT):
?C: This symbol, if defined, indicates that the getpwent() routine
?C: should be used instead of the getpw()
 routine.
?C:.
?H:#$d_getpwent HAS_GETPWENT /**/
?H:.
?LINT:set d_getpwent
: see if there is a getpwent
echo " "
if set getpwent val -f d_getpwent; eval $csym; $val; then
 echo "getpwent() found." >&4
 val="$define"
else
 echo "No getpwent() found -- will use getpw() instead." >&4
 val="$undef"
fi
set d_getpwent
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_getpwent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_varhdr.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_varhdr.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:54:42  ram
?RCS: patch61: varargs script now starts with leading "startsh"
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:21:02  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/13  15:26:05  ram
?RCS: patch27: this unit now supersedes old i_stdarg.U and i_varargs.U
?RCS: patch27: modified to avoid spurious Whoa warnings (ADO)
```

```
?RCS:
?RCS: Revision 3.0
  1993/08/18  12:08:49  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_stdarg i_varargs i_varhdr: cat +cc +ccflags rm test Setvar \
 Findhdr startsh _o
?MAKE: -pick add $@ %<
?S:i_stdarg:
?S: This variable conditionally defines the I_STDARG symbol, which
?S: indicates to the C program that <stdarg.h> exists and should
?S: be included.
?S:.
?S:i_varargs:
?S: This variable conditionally defines I_VARARGS, which indicates
?S: to the C program that it should include <varargs.h>.
?S:.
?S:i_varhdr:
?S: Contains the name of the header to be included to get va_dcl definition.
?S: Typically one of varargs.h or stdarg.h.
?S:.
?C:I_STDARG:
?C: This symbol, if defined, indicates that <stdarg.h> exists and should
?C: be included.
?C:.
?C:I_VARARGS:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <varargs.h>.
?C:.
?H:#$i_stdarg I_STDARG  /**/
?H:#$i_varargs I_VARARGS /**/
?H:.
?W:%<:va_dcl
?F:!varargs
?T:valstd
?LINT:set i_stdarg i_varargs
?X:
?X:
 Don't use setvar because the varargs test below might override these.
?X: Actually, the messages here are just informative. We don't wish to set
?X: i_varargs or i_stdarg to their final value before knowing which of the
?X: two we'll include.
?X:
: see if stdarg is available
echo " "
if $test `./findhdr stdarg.h`; then
 echo "<stdarg.h> found." >&4
 valstd="$define"
```

```
else
 echo "<stdarg.h> NOT found." >&4
 valstd="$undef"
fi

: see if varargs is available
echo " "
if $test `./findhdr varargs.h`; then
 echo "<varargs.h> found." >&4
else
 echo "<varargs.h> NOT found, but that's ok (I hope)." >&4
fi

?X:
?X: if you have stdarg.h, you need to support prototypes to actually use it;
?X: but if stdarg.h exists and the compiler doesn't support prototypes (for some
?X: bizarre reason), we'll fall back to varargs.h anyway so it's not so bad.
?X:
: set up the varargs testing programs
$cat > varargs.c <<EOP
#ifdef I_STDARG
#include <stdarg.h>
#endif
#ifdef I_VARARGS
#include <varargs.h>
#endif

#ifdef
 I_STDARG
int f(char *p, ...)
#else
int f(va_alist)
va_dcl
#endif
{
 va_list ap;
#ifndef I_STDARG
 char *p;
#endif
#ifdef I_STDARG
 va_start(ap,p);
#else
 va_start(ap);
 p = va_arg(ap, char *);
#endif
 va_end(ap);
 return 0;
}
```

```
EOP
$cat > varargs <<EOP
$startsh
if $cc -c $ccflags -D\$1 varargs.c >/dev/null 2>&1; then
 echo "true"
else
 echo "false"
fi
$rm -f varargs$_o
EOP
chmod +x varargs

: now check which varargs header should be included
echo " "
i_varhdr=''
val=''
case "$valstd" in
"$define")
 if `./varargs I_STDARG`; then
  val='stdarg.h'
 elif `./varargs I_VARARGS`; then
  val='varargs.h'
 fi
 ;;
*)
 if `./varargs I_VARARGS`; then
  val='varargs.h'
 fi
 ;;
esac
case "$val" in
'')
 echo " "
 echo "*** WHOA THERE!!! ***" >&4
 echo "    Your C compiler \"$cc\" doesn't seem to support stdarg or varargs!" >&4
 case "$knowitall" in
 '')
 echo "    I'm giving up; maybe you can try again with a different compiler?" >&4
  exit 1
  ;;
 esac
echo "I could not find the definition for va_dcl...
 You have problems..." >&4
 val="$undef"; set i_stdarg; eval $setvar
 val="$undef"; set i_varargs; eval $setvar
 ;;
*)
 set i_varhdr
```

```
 eval $setvar
 case "$i_varhdr" in
 stdarg.h)
  val="$define"; set i_stdarg; eval $setvar
  val="$undef"; set i_varargs; eval $setvar
  ;;
 varargs.h)
  val="$undef"; set i_stdarg; eval $setvar
  val="$define"; set i_varargs; eval $setvar
  ;;
 esac
 echo "We'll include <$i_varhdr> to get va_dcl definition." >&4;;
esac
$rm -f varargs*
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_varhdr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpwnam_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getpwnam_r getpwnam_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_pwd extern_C
?MAKE: -pick add $@ %<
?S:d_getpwnam_r:
?S: This variable conditionally defines the HAS_GETPWNAM_R symbol,
?S: which indicates to the C program that the getpwnam_r()
?S: routine is available.
?S:.
?S:getpwnam_r_proto:
?S: This variable encodes the prototype of getpwnam_r.
?S: It is zero if d_getpwnam_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getpwnam_r
?S: is defined.
?S:.
?C:HAS_GETPWNAM_R:
?C: This symbol, if defined, indicates that the getpwnam_r routine
?C: is available to
 getpwnam re-entrantly.
?C:.
?C:GETPWNAM_R_PROTO:
```

```
?C: This symbol encodes the prototype of getpwnam_r.
?C: It is zero if d_getpwnam_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getpwnam_r
?C: is defined.
?C:.
?H:#$d_getpwnam_r HAS_GETPWNAM_R /**/
?H:#define GETPWNAM_R_PROTO $getpwnam_r_proto /**/
?H:.
?T:try hdrs d_getpwnam_r_proto
: see if getpwnam_r exists
set getpwnam_r d_getpwnam_r
eval $inlibc
case "$d_getpwnam_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_pwd pwd.h"
 case "$d_getpwnam_r_proto:$usethreads" in
 ":define") d_getpwnam_r_proto=define
  set d_getpwnam_r_proto getpwnam_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getpwnam_r_proto" in
 define)
 case "$getpwnam_r_proto" in
 "|0) try='int getpwnam_r(const char*, struct passwd*, char*, size_t, struct passwd**);'
 ./protochk "$extern_C $try" $hdrs && getpwnam_r_proto=I_CSBWR ;;
 esac
 case "$getpwnam_r_proto" in
 "|0) try='int getpwnam_r(const char*, struct passwd*,
 char*, int, struct passwd**);'
 ./protochk "$extern_C $try" $hdrs && getpwnam_r_proto=I_CSBIR ;;
 esac
 case "$getpwnam_r_proto" in
 "|0) try='struct passwd* getpwnam_r(const char*, struct passwd*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getpwnam_r_proto=S_CSBI ;;
 esac
 case "$getpwnam_r_proto" in
 "|0) try='int getpwnam_r(const char*, struct passwd*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getpwnam_r_proto=I_CSBI ;;
 esac
 case "$getpwnam_r_proto" in
 "|0) d_getpwnam_r=undef
  getpwnam_r_proto=0
  echo "Disabling getpwnam_r, cannot determine prototype." >&4 ;;
 * ) case "$getpwnam_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getpwnam_r_proto="REENTRANT_PROTO_$getpwnam_r_proto" ;;
  esac
```

```
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getpwnam_r has no prototype, not using it." >&4 ;;
  esac
  d_getpwnam_r=undef
  getpwnam_r_proto=0
  ;;
 esac
 ;;
*) getpwnam_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getpwnam_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_gdbm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_gdbm.U,v $
?RCS: Revision 3.0.1.1  1995/05/12  12:16:39  ram
?RCS: patch54: made more robust by checking both header and lib (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_gdbm: Inhdr Inlibc Setvar
?MAKE: -pick add $@ %<
?S:i_gdbm (d_gdbm):
?S: This variable conditionally defines the I_GDBM symbol, which
?S: indicates to the C program that <gdbm.h> exists and should
?S: be included.
?S:.
?C:I_GDBM
 (HAS_GDBM):
?C: This symbol, if defined, indicates that <gdbm.h> exists and should
?C: be included.
```

```
?C:.
?H:#$i_gdbm I_GDBM /**/
?H:.
?T:t_gdbm d_gdbm_open
?LINT:set i_gdbm
: see if gdbm.h is available
?X: t_gdbm is a tentative check. We might just have the .h, not the lib -- ADO
set gdbm.h t_gdbm
eval $inhdr
case "$t_gdbm" in
$define)
 : see if gdbm_open exists
 set gdbm_open d_gdbm_open
 eval $inlibc
 case "$d_gdbm_open" in
 $undef)
  t_gdbm="$undef"
  echo "We won't be including <gdbm.h>"
  ;;
 esac
 ;;
esac
val="$t_gdbm"
set i_gdbm
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_gdbm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Extensions.U,v$
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: Extensions.U,v $
?RCS:
?MAKE:known_extensions extensions dynamic_ext static_ext nonxs_ext \
 useposix useopcode uselanginfo : \
 Myread hint usedl d_sem d_socket i_db i_dbm i_rpcsvcdbm i_gdbm \
 d_ndbm package test cat rsrc \
 d_msg d_shm osname use64bitint \
 libs d_cplusplus sed ls rm contains trnl sort
?MAKE: -pick add $@ %<
?Y:BOTTOM
```

```
?S:known_extensions:
?S: This variable holds a list of all extensions (both XS and non-xs)
?S: included in the package source distribution.  This information is
?S: only really of use during the Perl build, as the list makes no
?S: distinction between extensions which were build and installed, and
?S: those which where not.  See "extensions"
 for the list of extensions
?S: actually built and available.
?S:.
?S:dynamic_ext:
?S: This variable holds a list of XS extension files we want to
?S: link dynamically into the package.  It is used by Makefile.
?S:.
?S:static_ext:
?S: This variable holds a list of XS extension files we want to
?S: link statically into the package.  It is used by Makefile.
?S:.
?S:nonxs_ext:
?S: This variable holds a list of all non-xs extensions built and
?S: installed by the package.  By default, all non-xs extensions
?S: distributed will be built, with the exception of platform-specific
?S: extensions (currently only one VMS specific extension).
?S:.
?S:extensions:
?S: This variable holds a list of all extension files (both XS and
?S: non-xs) installed with the package.  It is propagated to Config.pm
?S: and is typically used to test whether a particular extension
?S: is available.
?S:.
?S:useposix:
?S: This variable holds either 'true' or 'false' to indicate
?S: whether the POSIX extension should
 be used.  The sole
?S: use for this currently is to allow an easy mechanism
?S: for hints files to indicate that POSIX will not compile
?S: on a particular system.
?S:.
?S:useopcode:
?S: This variable holds either 'true' or 'false' to indicate
?S: whether the Opcode extension should be used.  The sole
?S: use for this currently is to allow an easy mechanism
?S: for users to skip the Opcode extension from the Configure
?S: command line.
?S:.
?S:uselanginfo:
?S: This variable holds either 'true' or 'false' to indicate
?S: whether the I18N::Langinfo extension should be used.  The sole
?S: use for this currently is to allow an easy mechanism for users to skip
```

```
?S: this extension from the Configure command line.
?S:.
?T:xxx avail_ext this_ext tdir xs_extensions nonxs_extensions find_extensions
?INIT:: set useposix=false in your hint file to disable the POSIX extension.
?INIT:useposix=true
?INIT:: set useopcode=false in your hint file to disable the Opcode extension.
?INIT:useopcode=true
?INIT::
 set uselanginfo=false in your hint file to disable the I18N::Langinfo extension.
?INIT:uselanginfo=true
?LINT:extern noextensions
?LINT:extern onlyextensions
?T:keepextensions i
: Check extensions
echo " "
echo "Looking for extensions..." >&4
: If we are using the old config.sh, nonxs_extensions and xs_extensions may
: contain old or inaccurate or duplicate values.
nonxs_extensions="
xs_extensions="
: We do not use find because it might not be available.
: We do not just use MANIFEST because the user may have dropped
: some additional extensions into the source tree and expect them
: to be built.

: Function to recursively find available extensions, ignoring DynaLoader
: NOTE: recursion limit of 10 to prevent runaway in case of symlink madness
: In 5.10.1 and later, extensions are stored in directories
: like File-Glob instead of the older File/Glob/.
find_extensions='
   for xxx in *; do
 case "$xxx" in
     DynaLoader|dynaload) ;;
     *)
     this_ext=`echo "$xxx" | $sed -e s/-/\\\/g`;

    case "$this_ext" in
  Scalar/List/Utils) this_ext="List/Util" ;;
  PathTools)         this_ext="Cwd" ;;
     esac;
     echo " $xs_extensions $nonxs_extensions" > "$tdir/$$.tmp";
     if $contains " $this_ext " "$tdir/$$.tmp"; then
  echo >&4;
  echo "Duplicate directories detected for extension $xxx" >&4;
  echo "Configure cannot correctly recover from this - shall I abort?" >&4;
  case "$knowitall" in
  "") dflt=y;;
  *) dflt=n;;
```

```
  esac;
  . ../UU/myread;
  case "$ans" in
  n*|N*) ;;
  *) echo >&4;
      echo "Ok.  Stopping Configure." >&4;
      echo "Please remove the duplicate directory (e.g. using git clean) and then re-run Configure" >&4;
      exit 1;;
  esac;
  echo "Ok.  You will need to correct config.sh before running make." >&4;
     fi;
     $ls -1 "$xxx" > "$tdir/$$.tmp";
     if   $contains "\.xs$" "$tdir/$$.tmp" > /dev/null 2>&1; then
  xs_extensions="$xs_extensions $this_ext";
     elif $contains "\.c$"  "$tdir/$$.tmp" > /dev/null 2>&1; then
  xs_extensions="$xs_extensions
 $this_ext";
     elif $test -d "$xxx"; then
  nonxs_extensions="$nonxs_extensions $this_ext";
     fi;
     $rm -f "$tdir/$$.tmp";
     ;;
 esac;
   done'
tdir=`pwd`
cd "$rsrc/cpan"
set X
shift
eval $find_extensions
cd "$rsrc/dist"
set X
shift
eval $find_extensions
cd "$rsrc/ext"
set X
shift
eval $find_extensions
set X $xs_extensions
shift
xs_extensions=`echo "$*" | tr ' ' $trnl | $sort | tr $trnl ' '`
set X $nonxs_extensions
shift
nonxs_extensions=`echo "$*" | tr ' ' $trnl | $sort | tr $trnl ' '`
cd "$tdir"
known_extensions=`echo $nonxs_extensions $xs_extensions  | tr ' ' $trnl | $sort | tr $trnl ' '`

: Now see which are supported on this system.
?X: avail_ext lists available XS extensions.
```

```
avail_ext=''
for xxx in $xs_extensions ; do
 case "$xxx" in
?X: Handle possible DOS 8.3 filename and case alterations
 Amiga*)
  case "$osname" in
  amigaos) avail_ext="$avail_ext $xxx" ;;
  esac
  ;;
 DB_File|db_file)
  case "$i_db" in
  $define) avail_ext="$avail_ext $xxx"
 ;;
  esac
  ;;
 GDBM_File|gdbm_fil)
  case "$i_gdbm" in
  $define) avail_ext="$avail_ext $xxx" ;;
  esac
  ;;
 IPC/SysV|ipc/sysv)
  : XXX Do we need a useipcsysv variable here
  case "${d_msg}${d_sem}${d_shm}" in
  *"${define}"*) avail_ext="$avail_ext $xxx" ;;
  esac
  ;;
 NDBM_File|ndbm_fil)
  case "$d_ndbm" in
  $define)
      case "$osname-$use64bitint" in
      hpux-define)
   case "$libs" in
   *-lndbm*) avail_ext="$avail_ext $xxx" ;;
   esac
   ;;
      *) avail_ext="$avail_ext $xxx" ;;
      esac
      ;;
  esac
  ;;
 ODBM_File|odbm_fil)
  case "${i_dbm}${i_rpcsvcdbm}" in
  *"${define}"*)
      case "$d_cplusplus" in
      define) ;; # delete as a function name will not work
      *)  case "$osname-$use64bitint" in
   hpux-define)
       case "$libs" in
```

```
      *-ldbm*) avail_ext="$avail_ext $xxx" ;;
      esac
      ;;
  *) avail_ext="$avail_ext $xxx" ;;
  esac
  ;;
     esac
     ;;
 esac
 ;;
Opcode|opcode)
 case "$useopcode" in
 true|define|y) avail_ext="$avail_ext
$xxx" ;;
 esac
 ;;
POSIX|posix)
 case "$useposix" in
 true|define|y) avail_ext="$avail_ext $xxx" ;;
 esac
 ;;
Socket|socket)
 case "$d_socket" in
 true|$define|y) avail_ext="$avail_ext $xxx" ;;
 esac
 ;;
I18N/Langinfo|langinfo)
 case "$uselanginfo" in
 true|define|y) avail_ext="$avail_ext $xxx" ;;
 esac
 ;;
Sys/Syslog|sys/syslog)
 case $osname in
  amigaos) ;; # not really very useful on AmigaOS
  *)
  : XXX syslog requires socket
  case "$d_socket" in
  true|$define|y) avail_ext="$avail_ext $xxx" ;;
  esac
  ;;
 esac
 ;;
threads|threads/shared)
 # threads and threads::shared are special cases.
 # To stop people from asking "Perl 5.8.0 was supposed
 # to have this new fancy threads implementation but my
 # perl doesn't have it" and from people trying to
 # (re)install the threads module using CPAN.pm and
```

```
 # CPAN.pm then offering to reinstall Perl 5.8.0,
 # the threads.pm and threads/shared.pm will always be
 # there, croaking informatively ("you
need to rebuild
 # all of Perl with threads, sorry") when threads haven't
 # been compiled in.
 # --jhi
 avail_ext="$avail_ext $xxx"
 ;;
VMS*)
 ;;
Win32*)
 case "$osname" in
 cygwin) avail_ext="$avail_ext $xxx" ;;
 esac
 ;;
XS/APItest|xs/apitest)
 # This is just for testing.  Skip it unless we have dynamic loading.

 case "$usedl" in
 $define) avail_ext="$avail_ext $xxx" ;;
 esac
 ;;
XS/Typemap|xs/typemap)
 # This is just for testing.  Skip it unless we have dynamic loading.
 case "$usedl" in
 $define) avail_ext="$avail_ext $xxx" ;;
 esac
 ;;
*) avail_ext="$avail_ext $xxx"
 ;;
esac
done

set X $avail_ext
shift
avail_ext="$*"

case "$onlyextensions" in
") ;;
*)  keepextensions="
  echo "You have requested that only certain extensions be included..." >&4
  for i in $onlyextensions; do
     case " $avail_ext " in
     *" $i "*)
        echo "Keeping extension $i."
        keepextensions="$keepextensions $i"
        ;;
```

```
      *) echo "Ignoring
 extension $i." ;;
      esac
   done
   avail_ext="$keepextensions"
   ;;
esac

case "$noextensions" in
") ;;
*)  keepextensions="
   echo "You have requested that certain extensions be ignored..." >&4
   for i in $avail_ext; do
      case " $noextensions " in
      *" $i "*) echo "Ignoring extension $i." ;;
      *) echo "Keeping extension $i.";
         keepextensions="$keepextensions $i"
         ;;
      esac
   done
   avail_ext="$keepextensions"
   ;;
esac

: Now see which nonxs extensions are supported on this system.
: For now assume all are.
nonxs_ext="
for xxx in $nonxs_extensions ; do
 case "$xxx" in
 VMS*)
  ;;
 *) nonxs_ext="$nonxs_ext $xxx"
  ;;
 esac
done

set X $nonxs_ext
shift
nonxs_ext="$*"

case $usedl in
$define)
 $cat <<EOM
A number of extensions are supplied with $package.  You may choose to
compile these extensions for dynamic loading (the default), compile
them into the $package executable (static loading), or not include
them at all.
```

```
  Answer "none" to include no extensions.
Note that DynaLoader is always built and need not be mentioned here.

EOM
 case "$dynamic_ext" in
 ")
  : Exclude those listed in static_ext
  dflt="
  for xxx in $avail_ext; do
   case " $static_ext " in
   *" $xxx "*) ;;
   *) dflt="$dflt $xxx" ;;
   esac
  done
  set X $dflt
  shift
  dflt="$*"
  ;;
 *) dflt="$dynamic_ext"
  # Perhaps we are reusing an old out-of-date config.sh.
  case "$hint" in
  previous)
   if test X"$dynamic_ext" != X"$avail_ext"; then
    $cat <<EOM
NOTICE:  Your previous config.sh list may be incorrect.
The extensions now available to you are
 ${avail_ext}
but the default list from your previous config.sh is
 ${dynamic_ext}

EOM
   fi
   ;;
  esac
  ;;
 esac
 case "$dflt" in
 ") dflt=none;;
 esac
 rp="What extensions do you wish to load dynamically?"
 . ./myread
 case "$ans" in
?X: Use ' ' so a subsequent Configure will preserve that value.
 none) dynamic_ext=' ' ;;
 *) dynamic_ext="$ans" ;;
 esac

 case "$static_ext"
```

```
 in
 ")
  : Exclude those already listed in dynamic linking
  dflt=''
  for xxx in $avail_ext; do
   case " $dynamic_ext " in
   *" $xxx "*) ;;
   *) dflt="$dflt $xxx" ;;
   esac
  done
  set X $dflt
  shift
  dflt="$*"
  ;;
 *)  dflt="$static_ext"
  ;;
 esac

 case "$dflt" in
 ") dflt=none;;
 esac
 rp="What extensions do you wish to load statically?"
 . ./myread
 case "$ans" in
?X: Use ' ' so a subsequent Configure will preserve that value.
 none) static_ext=' ' ;;
 *) static_ext="$ans" ;;
 esac
 ;;
*)
 $cat <<EOM
A number of extensions are supplied with $package.  Answer "none"
to include no extensions.
Note that DynaLoader is always built and need not be mentioned here.

EOM
 case "$static_ext" in
 ") dflt="$avail_ext" ;;
 *) dflt="$static_ext"
  # Perhaps we are reusing an old out-of-date config.sh.
  case "$hint" in
  previous)
   if test X"$static_ext" != X"$avail_ext"; then
    $cat <<EOM
NOTICE:  Your previous config.sh list may be incorrect.
The extensions now available
 to you are
 ${avail_ext}
```

```
but the default list from your previous config.sh is
 ${static_ext}

EOM
   fi
   ;;
  esac
  ;;
 esac
 : Exclude those that are not xs extensions
 case "$dflt" in
 ") dflt=none;;
 esac
 rp="What extensions do you wish to include?"
 . ./myread
 case "$ans" in
?X: Use ' ' so a subsequent Configure will preserve that value.
 none) static_ext=' ' ;;
 *) static_ext="$ans" ;;
 esac
 ;;
esac
#
# Encode is a special case.  If we are building Encode as a static
# extension, we need to explicitly list its subextensions as well.
# For other nested extensions, this is handled automatically by
# the appropriate Makefile.PL.
case " $static_ext " in
 *" Encode "*) # Add the subextensions of Encode
 cd "$rsrc/cpan"
 for xxx in `ls Encode/*/Makefile.PL|awk -F/ '{print $2}'`; do
  static_ext="$static_ext Encode/$xxx"
  known_extensions="$known_extensions Encode/$xxx"
 done
 cd "$tdir"
 ;;
esac

set X $dynamic_ext $static_ext $nonxs_ext
shift
extensions="$*"

# Sanity check:
  We require an extension suitable for use with
# AnyDBM_File, as well as Fcntl and IO.  (Failure to have these
# should show up as failures in the test suite, but it's helpful to
# catch them now.) The 'extensions' list is normally sorted
# alphabetically, so we need to accept either
```

```
#    DB_File ... Fcntl ... IO  ....
# or something like
#    Fcntl ... NDBM_File ... IO  ....
case " $extensions"  in
*"_File "*" Fcntl "*" IO "*) ;; # DB_File
*" Fcntl "*"_File "*" IO "*) ;; # GDBM_File
*" Fcntl "*" IO "*"_File "*) ;; # NDBM_File
*) echo "WARNING: Extensions DB_File or *DBM_File, Fcntl, and IO not configured." >&4
  echo "WARNING: The Perl you are building will be quite crippled." >& 4
  ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/Extensions.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: packadmin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:packadmin: cf_email Oldconfig Myread cat spackage package
?MAKE: -pick add $@ %<
?Y:TOP
?S:packadmin:
?S: Electronic mail address of the package administrator.
?S:.
: check wehther they will act as local admin for the package
$cat <<EOM

If you or somebody else will be maintaining $package at your site, please
fill in the correct e-mail address here so that they may be contacted
if necessary.  You may enter "none"
 for no administrator.

EOM
case "$packadmin" in
") dflt="$cf_email";;
*) dflt="$packadmin";;
esac
rp="$spackage administrator e-mail address"
```

```
. ./myread
packadmin="$ans"
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/packadmin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_eofpipe.U,v 3.0.1.1 1994/10/29 16:12:40 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_eofpipe.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:12:40  ram
?RCS: patch36: call ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_eofpipe: Compile cat rm Oldconfig Guess echo n c
?MAKE: -pick add $@ %<
?S:d_eofpipe:
?S: This variable conditionally defines the EOFPIPE symbol, which
?S: indicates to the C program that select will correctly detect
 the EOF
?S: condition when pipe is closed from the other end.
?S:.
?C:EOFPIPE:
?C: This symbol, if defined, indicates that EOF condition will be detected
?C: by the reader of the pipe when it is closed by the writing process.
?C: That is, a select() call on that file descriptor will not block when
?C: only an EOF remains (typical behavior for BSD systems).
?C:.
?H:#$d_eofpipe EOFPIPE  /**/
?H:.
?F:!mpipe
: see if pipe correctly gives the EOF condition
echo " "
case "$d_eofpipe" in
")
 echo "Let's see if your pipes return EOF to select() upon closing..." >&4
 $cat >pipe.c <<'EOP'
```

```
int main()
{
 int pd[2];
 int mask;

 pipe(pd);
 if (0 == fork()) {
  close(pd[0]);
  close(pd[1]);
  exit(0);
 }

 close(pd[1]);
 mask = 1 << pd[0];
 alarm(2);
 select(32, &mask, (int *) 0, (int *) 0, (char *) 0);
 if (0 == read(pd[0], &mask, 1))
  exit(0);

 exit(1);
}
EOP
 set pipe
 if eval $compile_ok; then
?X: Use a script to avoid the possible 'alarm call' message
  echo "./pipe || exit 1" > mpipe
  chmod
 +x mpipe
  ./mpipe >/dev/null 2>&1
  case $? in
  0) d_eofpipe="$define";;
  *) d_eofpipe="$undef";;
  esac
 else
  echo "(The test program did not compile correctly -- Guessing.)"
  if ./bsd; then
   d_eofpipe="$define"
  else
   d_eofpipe="$undef"
  fi
 fi
 case "$d_eofpipe" in
 "$define") echo "Yes, they do.";;
 *) echo "No, they don't! (sigh)";;
 esac
 ;;
*)
 $echo $n "Your pipes $c"
```

```
 case "$d_eofpipe" in
 "$define") echo "allow select() to see EOF upon closing.";;
 *) echo "won't let select() see EOF on closing.";;
 esac
 ;;
esac
$rm -f *pipe* core
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_eofpipe.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_tmpnam_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_tmpnam_r tmpnam_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads extern_C
?MAKE: -pick add $@ %<
?S:d_tmpnam_r:
?S: This variable conditionally defines the HAS_TMPNAM_R symbol,
?S: which indicates to the C program that the tmpnam_r()
?S: routine is available.
?S:.
?S:tmpnam_r_proto:
?S: This variable encodes the prototype of tmpnam_r.
?S: It is zero if d_tmpnam_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_tmpnam_r
?S: is defined.
?S:.
?C:HAS_TMPNAM_R:
?C: This symbol, if defined, indicates that the tmpnam_r routine
?C: is available to tmpnam re-entrantly.
?C:.
?C:TMPNAM_R_PROTO:
?C: This
 symbol encodes the prototype of tmpnam_r.
?C: It is zero if d_tmpnam_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_tmpnam_r
?C: is defined.
?C:.
?H:#$d_tmpnam_r HAS_TMPNAM_R /**/
?H:#define TMPNAM_R_PROTO $tmpnam_r_proto /**/
```

```
?H:.
?T:try hdrs d_tmpnam_r_proto
: see if tmpnam_r exists
set tmpnam_r d_tmpnam_r
eval $inlibc
case "$d_tmpnam_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h "
 case "$d_tmpnam_r_proto:$usethreads" in
 ":define") d_tmpnam_r_proto=define
  set d_tmpnam_r_proto tmpnam_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_tmpnam_r_proto" in
 define)
 case "$tmpnam_r_proto" in
 "|0) try='char* tmpnam_r(char*);'
 ./protochk "$extern_C $try" $hdrs && tmpnam_r_proto=B_B ;;
 esac
 case "$tmpnam_r_proto" in
 "|0) d_tmpnam_r=undef
  tmpnam_r_proto=0
  echo "Disabling tmpnam_r, cannot determine prototype." >&4 ;;
 * ) case "$tmpnam_r_proto" in
  REENTRANT_PROTO*) ;;
  *) tmpnam_r_proto="REENTRANT_PROTO_$tmpnam_r_proto"
 ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "tmpnam_r has no prototype, not using it." >&4 ;;
  esac
  d_tmpnam_r=undef
  tmpnam_r_proto=0
  ;;
 esac
 ;;
*) tmpnam_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_tmpnam_r.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getenv_thread.U,v 0RCS:
?RCS: Copyright (c) 2021 H.Merijn Brand, Karl Williamson
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getenv_preserves_other_thread: echo cat i_stdlib i_pthread run rm_try \
 Compile Setvar
?MAKE: -pick add $@ %<
?S:d_getenv_preserves_other_thread:
?S: This variable conditionally defines the GETENV_PRESERVES_OTHER_THREAD
?S: symbol, which indicates to the C program that the getenv() system call
?S: does not zap the static buffer in a different thread.
?S:.
?C:GETENV_PRESERVES_OTHER_THREAD:
?C: This symbol, if defined, indicates that the getenv system call doesn't
?C: zap the static buffer of getenv() in a different thread.
?C:
?C: The typical getenv() implementation will return a pointer to the proper
?C: position in **environ.  But some may instead copy them to
 a static
?C: buffer in getenv().  If there is a per-thread instance of that buffer,
?C: or the return points to **environ, then a many-reader/1-writer mutex
?C: will work; otherwise an exclusive locking mutex is required to prevent
?C: races.
?C:.
?H:#$d_getenv_preserves_other_thread GETENV_PRESERVES_OTHER_THREAD /**/
?H:.
?T:rc
?F:!try
?LINT:set d_getenv_preserves_other_thread
: check for getenv behavior
case "$d_getenv_preserves_other_thread" in
")
$echo "Checking to see if getenv() preserves a different thread's results" >&4
$cat >try.c <<EOCP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#include <stdio.h>
#include <string.h>
#$i_pthread I_PTHREAD
#ifdef I_PTHREAD
#  include <pthread.h>
#endif
```

```
void *
thread_start(void * arg)
{
   return (void *) getenv("HOME");
}

int main() {
   char * main_buffer;
   char save_main_buffer[1000];
   pthread_t subthread;
   pthread_attr_t attr;

   main_buffer = getenv("PATH");

   /* If too large for our generous allowance,
 return we couldn't figure it
    * out. */
   if (strlen(main_buffer) >= sizeof(save_main_buffer)) {
       exit(2);
   }

   strcpy(save_main_buffer, main_buffer);

   if (pthread_attr_init(&attr) != 0) {
       exit(2);
   }

   if (pthread_create(&subthread, &attr, thread_start, NULL) != 0) {
       exit(2);
   }

   if (pthread_join(subthread, NULL) != 0) {
       exit(2);
   }

   exit(! (strcmp(main_buffer, save_main_buffer) == 0));
}
EOCP
val=
set try
if eval $compile_ok; then
   $run ./try
   rc=$?
   case "$rc" in
 0) echo "getenv() didn't destroy another thread's buffer" >&4
    val=$define
    ;;
```

```
 1) echo "getenv() does destroy another thread's buffer" >&4
    val=$undef
    ;;
 *) echo "Couldn't determine if getenv() destroys another thread's return value (code=$rc); assuming it does" >&4
    val=$undef
    ;;
   esac
else
   echo "(I can't seem to compile the test program.)" >&4
   echo "Assuming that your C library's getenv destroys another thread's
 return value." >&4
   val=$undef
fi
set d_getenv_preserves_other_thread
eval $setvar
$rm_try
;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getenv_thread.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpagsz.U,v 3.0.1.1 1994/10/29 16:13:10 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_getpagsz.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:13:10  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getpagsz: Compile Oldconfig Myread Inlibc Findhdr
?MAKE: -pick add $@ %<
?S:d_getpagsz:
?S: This variable conditionally defines HAS_GETPAGESIZE if getpagesize()
?S: is available to get the system page size.
?S:.
?C:HAS_GETPAGESIZE
```

```
 (GETPAGESIZE):
?C: This symbol, if defined, indicates that the getpagesize system call
?C: is available to get system page size, which is the granularity of
?C: many memory management calls.
?C:.
?H:#$d_getpagsz HAS_GETPAGESIZE  /**/
?H:.
?LINT:set d_getpagsz
: see if getpagesize exists
set getpagesize d_getpagsz
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_getpagsz.U
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```
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS:
?MAKE:d_dir_dd_fd: Compile cat rm_try Setvar i_dirent i_stdlib
?MAKE: -pick add $@ %<
?S:d_dir_dd_fd (d_dir_dd_fd.U):
?S: This variable conditionally defines the HAS_DIR_DD_FD symbol, which
?S: indicates that the DIR directory stream type contains a member
?S: variable called dd_fd.
?S:.
?C:HAS_DIR_DD_FD:
?C: This symbol, if defined, indicates that the the DIR* dirstream
?C: structure contains a member variable named dd_fd.
?C:.
?H:#$d_dir_dd_fd HAS_DIR_DD_FD  /**/
?H:.
?LINT:set d_dir_dd_fd
: Look for DIR.dd_fd
case "$i_dirent"
 in
"$define")
   echo "Checking to see if DIR has a dd_fd member variable" >&4
   $cat >try.c <<EOCP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
```

```
#include <stdlib.h>
#endif
#include <dirent.h>

int main() {
  DIR dir;
  dir.dd_fd = 1;
  return 0;
}
EOCP
  val=$undef
  set try
  if eval $compile; then
      echo "Yes, it does."
      val="$define"
  else
      echo "No, it does not."
      val="$undef"
  fi
  ;;
*)
  echo "You don't have a <dirent.h>, so not checking for dd_fd." >&4
  val="$undef"
  ;;
esac
set d_dir_dd_fd
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_dir_dd_fd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libpth.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libpth.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  16:08:49  ram
?RCS: patch61: new loclibpth variable
?RCS:
```

```
?RCS: Revision 3.0.1.5  1995/01/11  15:31:30  ram
?RCS: patch45: call ./mips instead of just mips (WED)
?RCS:
?RCS: Revision 3.0.1.4  1994/08/29  16:29:15  ram
?RCS: patch32: added /lib/pa1.1 for HP-UX specially tuned PA-RISC libs (ADO)
?RCS: patch32: fixed information message, making it clearer (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:03:54
  ram
?RCS: patch30: added /usr/shlib to glibpth for shared-only libraries
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:26:57  ram
?RCS: patch27: fixed a typo (libpth -> glibpth)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:07:53  ram
?RCS: patch23: now asks for library directories to be searched (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit initializes the path for C library lookup.
?X:
?MAKE:libpth glibpth xlibpth plibpth loclibpth incpth: \
 usrinc incpath test cat Myread Oldconfig sysroot osname \
 ccname echo cppstdin awk grep sed rm usecrosscompile
?MAKE: -pick add $@ %<
?S:libpth:
?S: This variable holds the general path (space-separated) used to find
?S: libraries. It is intended to be used by other units.
?S:.
?S:glibpth:
?S: This variable holds the general path (space-separated) used to
?S: find libraries.  It may contain directories that do not exist on
?S: this platform, libpth is the cleaned-up
 version.
?S:.
?S:xlibpth:
?S: This variable holds extra path (space-separated) used to find
?S: libraries on this platform, for example CPU-specific libraries
?S: (on multi-CPU platforms) may be listed here.
?S:.
?S:loclibpth:
?S: This variable holds the paths (space-separated) used to find local
?S: libraries.  It is prepended to libpth, and is intended to be easily
?S: set from the command line.
?S:.
?S:plibpth:
```

```
?S: Holds the private path used by Configure to find out the libraries.
?S: Its value is prepend to libpth. This variable takes care of special
?S: machines, like the mips.  Usually, it should be empty.
?S:.
?S:incpth:
?S: This variable must precede the normal include path to get the
?S: right one, as in "$incpath/usr/include" or "$incpath/usr/lib".
?S: Value can be "" or "/bsd43" on mips.
?S:.
?T: xxx dlist i j croak realpath inclibpth
?LINT:extern incpth
?LINT:change usrinc
?INIT:: change the next line if compiling for Xenix/286 on Xenix/386
?INIT:xlibpth='/usr/lib/386
 /lib/386'
?INIT:: Possible local library directories to search.
?INIT:loclibpth="/usr/local/lib /opt/local/lib /usr/gnu/lib"
?INIT:loclibpth="$loclibpth /opt/gnu/lib /usr/GNU/lib /opt/GNU/lib"
?INIT:
?INIT:: general looking path for locating libraries
?INIT:glibpth="/lib /usr/lib $xlibpth"
?INIT:glibpth="$glibpth /usr/ccs/lib /usr/ucblib /usr/local/lib"
?X: /shlib is for Digital Unix 4.0
?X: /usr/shlib is for OSF/1 systems.
?INIT:test -f /usr/shlib/libc.so && glibpth="/usr/shlib $glibpth"
?INIT:test -f /shlib/libc.so     && glibpth="/shlib $glibpth"
?INIT:test -d /usr/lib64         && glibpth="$glibpth /lib64 /usr/lib64 /usr/local/lib64"
?INIT:
?INIT:: Private path used by Configure to find libraries.  Its value
?INIT:: is prepended to libpth. This variable takes care of special
?INIT:: machines, like the mips.  Usually, it should be empty.
?INIT:plibpth=''
?INIT:
?X:cppfilter is later used in Findhdr.U, but we not want to expose it to config.h
?T:cppfilter
: Adjust cppfilter for path
 component separator
case "$osname" in
vos) cppfilter="tr '\\\>' '/' |" ;; # path component separator is >
os2) cppfilter="sed -e 's|\\\\\\\\|/|g' |" ;; # path component separator is \
*)   cppfilter='' ;;
esac

: Use gcc to determine libpth and incpth
# If using gcc or clang, we can get better values for libpth, incpth
# and usrinc directly from the compiler.
# Note that ccname for clang is also gcc.
case "$ccname" in
```

```
  gcc)
realpath=`which realpath 2>/dev/null | sed 's/no realpath in.*//'`
$echo 'extern int foo;' > try.c
set X `$cppstdin -v try.c 2>&1 | $awk '/^#include </,/^End of search /'|$cppfilter $grep '/include'`
shift
inclibpth=""
if $test $# -gt 0; then
    for i in $*; do
 case $realpath in
     */realpath) i=`$realpath $i` ;;
 esac
 incpth="$incpth $i"
 j="`$echo $i | $sed 's,/include[^/]*,/lib,'`"
 if $test -d $j; then
     inclibpth="$inclibpth $j"
 fi
    done
    incpth="`$echo $incpth | $sed 's/^ //'`"
    for xxx in $inclibpth $loclibpth $plibpth
$glibpth; do
 if $test -d $xxx; then
     case $realpath in
  */realpath) xxx=`$realpath $xxx` ;;
     esac
     case " $libpth " in
     *" $xxx "*) ;;
     *) libpth="$libpth $xxx";;
     esac
 fi
    done
    libpth="`$echo $libpth | $sed 's/^ //'`"
fi
$rm -f try.c
case "$usrinc" in
") for i in $incpth; do
 if $test -f $i/errno.h -a -f $i/stdio.h -a -f $i/time.h; then
     usrinc="$i"
     break
 fi
    done
    ;;
esac

case "$usecrosscompile" in
$define|true|[yY]*)
    case "$incpth" in
 ") echo "Incpth not defined." >&4; croak=y ;;
 *)  echo "Using incpth '$incpth'." >&4 ;;
```

```
    esac
    case "$libpth" in
  ") echo "Libpth not defined." >&4; croak=y ;;
  *)  echo "Using libpth '$libpth'." >&4 ;;
    esac
    case "$usrinc" in
  ") echo "Usrinc not defined." >&4; croak=y ;;
  *)  echo "Using usrinc $usrinc." >&4 ;;
    esac
    case "$croak" in
  y)
  if test "X$sysroot" = X; then
     echo "Cannot continue, aborting." >&4; exit 1
  else

   echo "Cross-compiling using sysroot $sysroot, failing to guess inc/lib paths is not fatal" >&4
  fi
  ;;
    esac
    ;;
 esac
   ;;
esac

: Default value for incpth is just usrinc
case "$incpth" in
") incpth="$usrinc";;
esac

: Set private lib path
case "$plibpth" in
") if ./mips; then
?X: on mips, we DO NOT want /lib, and we want $incpath/usr/lib
 plibpth="$incpath/usr/lib $sysroot/usr/local/lib $sysroot/usr/ccs/lib"
   fi;;
esac
case "$libpth" in
' ') dlist=";;
") dlist="$loclibpth $plibpth $glibpth";;
*) dlist="$libpth";;
esac

: Now check and see which directories actually exist, avoiding duplicates
for xxx in $dlist
do
   if $test -d $xxx; then
  case " $libpth " in
  *" $xxx "*) ;;
```

```
  *) libpth="$libpth $xxx";;
  esac
   fi
done
$cat <<'EOM'

Some systems have incompatible or broken versions of libraries.  Among
the directories listed in the question below, please remove any you
know not to be holding relevant libraries, and add any that are needed.
Say "none" for none.

EOM

if
 test "X$sysroot" != X; then
   $cat <<EOM
You have set sysroot to $sysroot, please supply the directories excluding sysroot

EOM
fi

case "$libpth" in
") dflt='none';;
*)
?X: strip leading space
 set X $libpth
 shift
 dflt=${1+"$@"}
 ;;
esac
rp="Directories to use for library searches?"
. ./myread
case "$ans" in
none) libpth=' ';;
*) libpth="$ans";;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/libpth.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the WRITEME file.
```

```
?RCS:
?MAKE:d_writev: Inlibc
?MAKE: -pick add $@ %<
?S:d_writev:
?S: This variable conditionally defines the HAS_WRITEV symbol, which
?S: indicates to the C program that the writev() routine is available.
?S:.
?C:HAS_WRITEV:
?C: This symbol, if defined, indicates that the writev routine is
?C: available to do scatter writes.
?C:.
?H:#$d_writev HAS_WRITEV  /**/
?H:.
?LINT:set d_writev
: see if writev exists
set writev d_writev
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_writev.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strerror.U,v $
?RCS: Revision 3.0.1.3  1994/05/13  15:20:27  ram
?RCS: patch27: now uses new macro support for cleaner Strerror def
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  14:58:26  ram
?RCS: patch23: renamed strerror into Strerror to protect name space (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:08:56  ram
?RCS: patch16: protected code looking for sys_errnolist[] with @if
?RCS: patch16: added default value for d_sysernlst
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:35  ram
?RCS: Baseline
 for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:d_strerror d_syserrlst d_sysernlst d_strerrm: contains Csym Findhdr
?MAKE: -pick add $@ %<
?S:d_strerror:
?S: This variable conditionally defines HAS_STRERROR if strerror() is
?S: available to translate error numbers to strings.
?S:.
?S:d_syserrlst:
?S: This variable conditionally defines HAS_SYS_ERRLIST if sys_errlist[] is
?S: available to translate error numbers to strings.
?S:.
?S:d_sysernlst:
?S: This variable conditionally defines HAS_SYS_ERRNOLIST if sys_errnolist[]
?S: is available to translate error numbers to the symbolic name.
?S:.
?S:d_strerrm:
?S: This variable holds what Strerrr is defined as to translate an error
?S: code condition into an error message string. It could be 'strerror'
?S: or a more complex macro emulating strrror with sys_errlist[], or the
?S: "unknown" string when both strerror and sys_errlist are missing.
?S:.
?C:HAS_STRERROR (STRERROR):
?C: This symbol, if defined, indicates that the strerror routine is
?C: available
 to translate error numbers to strings. See the writeup
?C: of Strerror() in this file before you try to define your own.
?C:.
?C:HAS_SYS_ERRLIST (SYSERRLIST):
?C: This symbol, if defined, indicates that the sys_errlist array is
?C: available to translate error numbers to strings. The extern int
?C: sys_nerr gives the size of that table.
?C:.
?C:HAS_SYS_ERRNOLIST (SYSERRNOLIST):
?C: This symbol, if defined, indicates that the sys_errnolist array is
?C: available to translate an errno code into its symbolic name (e.g.
?C: ENOENT). The extern int sys_nerrno gives the size of that table.
?C:.
?C:Strerror:
?C: This preprocessor symbol is defined as a macro if strerror() is
?C: not available to translate error numbers to strings but sys_errlist[]
?C: array is there.
?C:.
?H:#$d_strerror HAS_STRERROR  /**/
?H:#$d_syserrlst HAS_SYS_ERRLIST /**/
?H:#$d_sysernlst HAS_SYS_ERRNOLIST /**/
?H:#define Strerror(e) $d_strerrm
?H:.
?D:d_sysernlst=''
?T:xxx val
```

```
: see if strerror and/or sys_errlist[]
 exist
echo " "
if set strerror val -f d_strerror; eval $csym; $val; then
 echo 'strerror() found.' >&4
 d_strerror="$define"
 d_strerrm='strerror(e)'
 if set sys_errlist val -a d_syserrlst; eval $csym; $val; then
  echo "(You also have sys_errlist[], so we could roll our own strerror.)"
  d_syserrlst="$define"
 else
 echo "(Since you don't have sys_errlist[], sterror() is welcome.)"
  d_syserrlst="$undef"
 fi
elif xxx=`./findhdr string.h`; test "$xxx" || xxx=`./findhdr strings.h`; \
 $contains '#[  ]*define.*strerror' "$xxx" >/dev/null 2>&1; then
 echo 'strerror() found in string header.' >&4
 d_strerror="$define"
 d_strerrm='strerror(e)'
 if set sys_errlist val -a d_syserrlst; eval $csym; $val; then
  echo "(Most probably, strerror() uses sys_errlist[] for descriptions.)"
  d_syserrlst="$define"
 else
  echo "(You don't appear to have any sys_errlist[], how can this be?)"
  d_syserrlst="$undef"
 fi
elif set sys_errlist val -a d_syserrlst; eval $csym; $val; then
echo "strerror()
 not found, but you have sys_errlist[] so we'll use that." >&4
 d_strerror="$undef"
 d_syserrlst="$define"
 d_strerrm='((e)<0||(e)>=sys_nerr?"unknown":sys_errlist[e])'
else
 echo 'strerror() and sys_errlist[] NOT found.' >&4
 d_strerror="$undef"
 d_syserrlst="$undef"
 d_strerrm='"unknown"'
fi
@if d_sysernlst || HAS_SYS_ERRNOLIST
if set sys_errnolist val -a d_sysernlst; eval $csym; $val; then
 echo "(Symbolic error codes can be fetched via the sys_errnolist[] array.)"
 d_sysernlst="$define"
else
 echo "(However, I can't extract the symbolic error code out of errno.)"
 d_sysernlst="$undef"
fi
@end
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_strerror.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_rename.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_rename.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_rename: Inlibc
?MAKE: -pick add $@ %<
?S:d_rename:
?S: This variable conditionally defines the HAS_RENAME symbol, which
?S: indicates to the C program that the rename() routine is available
?S: to rename files.
?S:.
?C:HAS_RENAME (RENAME):
?C: This symbol, if defined, indicates that the rename routine is available
?C: to rename files.
  Otherwise you should do the unlink(), link(), unlink()
?C: trick.
?C:.
?H:#$d_rename HAS_RENAME /**/
?H:.
?LINT:set d_rename
: see if rename exists
set rename d_rename
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_rename.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getlogin_r.U,v 0RCS:
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```

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getlogin_r getlogin_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_unistd extern_C
?MAKE: -pick add $@ %<
?S:d_getlogin_r:
?S: This variable conditionally defines the HAS_GETLOGIN_R symbol,
?S: which indicates to the C program that the getlogin_r()
?S: routine is available.
?S:.
?S:getlogin_r_proto:
?S: This variable encodes the prototype of getlogin_r.
?S: It is zero if d_getlogin_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getlogin_r
?S: is defined.
?S:.
?C:HAS_GETLOGIN_R:
?C: This symbol, if defined, indicates that the getlogin_r routine
?C: is available
 to getlogin re-entrantly.
?C:.
?C:GETLOGIN_R_PROTO:
?C: This symbol encodes the prototype of getlogin_r.
?C: It is zero if d_getlogin_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getlogin_r
?C: is defined.
?C:.
?H:#$d_getlogin_r HAS_GETLOGIN_R /**/
?H:#define GETLOGIN_R_PROTO $getlogin_r_proto /**/
?H:.
?T:try hdrs d_getlogin_r_proto
: see if getlogin_r exists
set getlogin_r d_getlogin_r
eval $inlibc
case "$d_getlogin_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_unistd unistd.h"
 case "$d_getlogin_r_proto:$usethreads" in
 ":define") d_getlogin_r_proto=define
  set d_getlogin_r_proto getlogin_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getlogin_r_proto" in
 define)
 case "$getlogin_r_proto" in
```

```
"|0) try='int getlogin_r(char*, size_t);'
./protochk "$extern_C $try" $hdrs && getlogin_r_proto=I_BW ;;
esac
case "$getlogin_r_proto" in
"|0) try='int getlogin_r(char*, int);'
./protochk "$extern_C $try" $hdrs && getlogin_r_proto=I_BI
;;
esac
case "$getlogin_r_proto" in
"|0) try='char* getlogin_r(char*, size_t);'
./protochk "$extern_C $try" $hdrs && getlogin_r_proto=B_BW ;;
esac
case "$getlogin_r_proto" in
"|0) try='char* getlogin_r(char*, int);'
./protochk "$extern_C $try" $hdrs && getlogin_r_proto=B_BI ;;
esac
case "$getlogin_r_proto" in
"|0) d_getlogin_r=undef
 getlogin_r_proto=0
 echo "Disabling getlogin_r, cannot determine prototype." >&4 ;;
* ) case "$getlogin_r_proto" in
 REENTRANT_PROTO*) ;;
 *) getlogin_r_proto="REENTRANT_PROTO_$getlogin_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "getlogin_r has no prototype, not using it." >&4 ;;
 esac
 d_getlogin_r=undef
 getlogin_r_proto=0
 ;;
esac
;;
*) getlogin_r_proto=0
;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getlogin_r.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: i_stddef.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:

```
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_stddef.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_stddef: Inhdr
?MAKE: -pick add $@ %<
?S:i_stddef:
?S: This variable conditionally defines the I_STDDEF symbol, which
?S: indicates to the C program that <stddef.h> exists and should
?S: be included.
?S:.
?C:I_STDDEF:
?C: This symbol, if defined, indicates that <stddef.h> exists and should
?C: be included.
?C:.
?H:#$i_stddef I_STDDEF /**/
?H:.
?LINT:set
 i_stddef
: see if stddef is available
set stddef.h i_stddef
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_stddef.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_syscall.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_syscall.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:d_syscall: Inlibc
?MAKE: -pick add $@ %<
?S:d_syscall:
?S: This variable conditionally defines HAS_SYSCALL if syscall() is
?S: available call arbitrary system calls.
?S:.
?C:HAS_SYSCALL (SYSCALL):
?C: This symbol, if defined, indicates that the syscall routine is
?C: available to call arbitrary system calls. If undefined, that's tough.
?C:.
?H:#$d_syscall
 HAS_SYSCALL /**/
?H:.
?LINT:set d_syscall
: see if syscall exists
set syscall d_syscall
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_syscall.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_closedir.U,v 3.0.1.3 1997/02/28 15:31:26 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_closedir.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:31:26  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:11:18  ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:21  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_closedir d_void_closedir: Inlibc i_dirent i_sysdir i_sysndir
 \
 i_systypes Compile Setvar rm_try run
```

```
?MAKE: -pick add $@ %<
?S:d_closedir:
?S: This variable conditionally defines HAS_CLOSEDIR if closedir() is
?S: available.
?S:.
?C:HAS_CLOSEDIR:
?C: This symbol, if defined, indicates that the closedir() routine is
?C: available.
?C:.
?H:#$d_closedir HAS_CLOSEDIR  /**/
?H:.
?S:d_void_closedir:
?S: This variable conditionally defines VOID_CLOSEDIR if closedir()
?S: does not return a value.
?S:.
?C:VOID_CLOSEDIR:
?C: This symbol, if defined, indicates that the closedir() routine
?C: does not return a value.
?C:.
?H:#$d_void_closedir VOID_CLOSEDIR  /**/
?H:.
?F:!try
?LINT:set d_closedir d_void_closedir
: see if closedir exists
set closedir d_closedir
eval $inlibc

@if VOID_CLOSEDIR || d_void_closedir
?X: The following contortions are designed so we can call closedir()
?X: and check whether it returns a value.  The contortions are designed
?X: to portably pick up the correct directory header, for those
?X: systems that support various mutually incompatible
 directory functions.
?X: This is from perl5's perl.h
case "$d_closedir" in
"$define")
 echo " "
 echo "Checking whether closedir() returns a status..." >&4
 cat > try.c <<EOM
#$i_dirent I_DIRENT  /**/
#$i_sysdir I_SYS_DIR  /**/
#$i_sysndir I_SYS_NDIR  /**/
#$i_systypes I_SYS_TYPES /**/

#if defined(I_SYS_TYPES)
#include <sys/types.h>
#endif
#if defined(I_DIRENT)
```

```
#include <dirent.h>
#else
#ifdef I_SYS_NDIR
#include <sys/ndir.h>
#else
#ifdef I_SYS_DIR
#include <sys/dir.h>
#endif
#endif
#endif
int main() { return closedir(opendir(".")); }
EOM
 set try
 if eval $compile_ok; then
  if $run ./try > /dev/null 2>&1 ; then
   echo "Yes, it does."
   val="$undef"
  else
   echo "No, it doesn't."
   val="$define"
  fi
 else
  echo "(I can't seem to compile the test program--assuming it doesn't)"
  val="$define"
 fi
 ;;
*)
 val="$undef";
 ;;
esac
set d_void_closedir
eval $setvar
$rm_try
@end
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/d_closedir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sethostent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
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?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
```

```
?MAKE:d_sethostent_r sethostent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_sethostent_r:
?S: This variable conditionally defines the HAS_SETHOSTENT_R symbol,
?S: which indicates to the C program that the sethostent_r()
?S: routine is available.
?S:.
?S:sethostent_r_proto:
?S: This variable encodes the prototype of sethostent_r.
?S: It is zero if d_sethostent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_sethostent_r
?S: is defined.
?S:.
?C:HAS_SETHOSTENT_R:
?C: This symbol, if defined, indicates that the sethostent_r routine
?C: is
 available to sethostent re-entrantly.
?C:.
?C:SETHOSTENT_R_PROTO:
?C: This symbol encodes the prototype of sethostent_r.
?C: It is zero if d_sethostent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_sethostent_r
?C: is defined.
?C:.
?H:#$d_sethostent_r HAS_SETHOSTENT_R /**/
?H:#define SETHOSTENT_R_PROTO $sethostent_r_proto /**/
?H:.
?T:try hdrs d_sethostent_r_proto
: see if sethostent_r exists
set sethostent_r d_sethostent_r
eval $inlibc
case "$d_sethostent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_sethostent_r_proto:$usethreads" in
 ":define") d_sethostent_r_proto=define
  set d_sethostent_r_proto sethostent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_sethostent_r_proto" in
 define)
 case "$sethostent_r_proto" in
 "|0) try='int sethostent_r(int, struct hostent_data*);'
 ./protochk "$extern_C $try" $hdrs && sethostent_r_proto=I_ID ;;
 esac
 case "$sethostent_r_proto" in
```

```
"|0) try='void
sethostent_r(int, struct hostent_data*);'
./protochk "$extern_C $try" $hdrs && sethostent_r_proto=V_ID ;;
esac
case "$sethostent_r_proto" in
"|0) d_sethostent_r=undef
 sethostent_r_proto=0
 echo "Disabling sethostent_r, cannot determine prototype." >&4 ;;
* ) case "$sethostent_r_proto" in
 REENTRANT_PROTO*) ;;
 *) sethostent_r_proto="REENTRANT_PROTO_$sethostent_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "sethostent_r has no prototype, not using it." >&4 ;;
 esac
 d_sethostent_r=undef
 sethostent_r_proto=0
 ;;
esac
;;
*) sethostent_r_proto=0
;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_sethostent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_mktime.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_mktime.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:09:44  ram
?RCS: patch32: created by ADO
?RCS:
```

```
?MAKE:d_mktime: Inlibc
?MAKE: -pick add $@ %<
?S:d_mktime:
?S: This variable conditionally defines the HAS_MKTIME symbol, which
?S: indicates to the C program that the mktime() routine is available.
?S:.
?C:HAS_MKTIME :
?C: This symbol, if defined, indicates that the mktime routine
 is
?C: available.
?C:.
?H:#$d_mktime HAS_MKTIME  /**/
?H:.
?LINT:set d_mktime
: see if mktime exists
set mktime d_mktime
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_mktime.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_dbminitproto: Hasproto i_dbm
?MAKE: -pick add $@ %<
?S:d_dbminitproto:
?S: This variable conditionally defines the HAS_DBMINIT_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the dbminit() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_DBMINIT_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the dbminit() function.  Otherwise, it is up
?C: to the program to supply one.  A good guess is
?C:  extern
 int dbminit(char *);
?C:.
```

```
?H:#$d_dbminitproto HAS_DBMINIT_PROTO /**/
?H:.
?LINT:set d_dbminitproto
: see if prototype for dbminit is available
echo " "
set d_dbminitproto dbminit $i_dbm dbm.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_dbminitproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ftime.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_ftime.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:06  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_ftime d_gettimeod: Inlibc Setvar
?MAKE: -pick add $@ %<
?S:d_ftime:
?S: This variable conditionally defines the HAS_FTIME symbol, which indicates
?S: that the ftime() routine exists.  The ftime() routine is basically
?S: a sub-second accuracy clock.
?S:.
?S:d_gettimeod:
?S: This variable conditionally defines the HAS_GETTIMEOFDAY symbol,
 which
?S: indicates that the gettimeofday() system call exists (to obtain a
?S: sub-second accuracy clock). You should probably include <sys/resource.h>.
?S:.
?C:HAS_FTIME (FTIMER):
?C: This symbol, if defined, indicates that the ftime() routine exists.
?C: It is basically a sub-second accuracy clock, but is less accurate
?C: than gettimeofday(2) anyway. The type "Timeval" should be used to
?C: refer to "struct timeb".
?C:.
?C:HAS_GETTIMEOFDAY (GETTIMEOFDAY):
?C: This symbol, if defined, indicates that the gettimeofday() system
```

```
?C: call is available for a sub-second accuracy clock. Usually, the file
?C: <sys/resource.h> needs to be included (see I_SYS_RESOURCE).
?C: The type "Timeval" should be used to refer to "struct timeval".
?C:.
?H:#$d_ftime HAS_FTIME  /**/
?H:#$d_gettimeod HAS_GETTIMEOFDAY /**/
?H:?%<:@if HAS_FTIME
?H:?%<:#ifdef HAS_FTIME
?H:?%<:#define Timeval struct timeb  /* Structure used by ftime() */
?H:?%<:#endif
?H:?%<:@end
?H:?%<:@if HAS_GETTIMEOFDAY
?H:?%<:#ifdef HAS_GETTIMEOFDAY
?H:?%<:#define
 Timeval struct timeval /* Structure used by gettimeofday() */
?H:?%<:#endif
?H:?%<:@end
?H:.
?X:FIXME
?X:?I:?d_ftime:i_systimeb
?X:?I:?d_gettimeod:i_sysresrc
?LINT:set d_gettimeod d_ftime
?LINT:known Timeval
: see if gettimeofday or ftime exists
?X:
?X: Give priority to gettimeofday(2) because timing is more accurate
?X:
set gettimeofday d_gettimeod
eval $inlibc
case "$d_gettimeod" in
"$undef")
 set ftime d_ftime
 eval $inlibc
 ;;
*)
 val="$undef"; set d_ftime; eval $setvar
 ;;
esac
case "$d_gettimeod$d_ftime" in
"$undef$undef")
 echo " "
 echo 'No ftime() nor gettimeofday() -- timing may be less accurate.' >&4
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_ftime.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: models.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: models.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:13:17  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:02:39  ram
?RCS: patch6: added default for large
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:models split small medium large huge: test cat Myread sysman Oldconfig \
 Loc contains rm
?MAKE: -pick add $@ %<
?S:models:
?S: This variable contains
 the list of memory models supported by this
?S: system.  Possible component values are none, split, unsplit, small,
?S: medium, large, and huge.  The component values are space separated.
?S:.
?S:split:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program that will run in separate I and D space, for those
?S: machines that support separation of instruction and data space.  It is
?S: up to the Makefile to use this.
?S:.
?S:small:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program running with a small memory model.  It is up to
?S: the Makefile to use this.
?S:.
?S:medium:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program running with a medium memory model.  If the
?S: medium model is not supported, contains the flag to produce large
?S: model programs.  It is up to the Makefile to use this.
?S:.
```

```
?S:large:
?S: This variable contains a flag
 which will tell the C compiler and loader
?S: to produce a program running with a large memory model.  It is up to
?S: the Makefile to use this.
?S:.
?S:huge:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program running with a huge memory model.  If the
?S: huge model is not supported, contains the flag to produce large
?S: model programs.  It is up to the Makefile to use this.
?S:.
?T:unsplit tans modelcc
?F:!pdp11
?D:large=''
?LINT:extern cc
: see what memory models we can support
case "$models" in
'')
?X: We may not use Cppsym or we get a circular dependency through cc.
?X: But this should work regardless of which cc we eventually use.
 $cat >pdp11.c <<'EOP'
int main() {
#ifdef pdp11
 exit(0);
#else
 exit(1);
#endif
}
EOP
?X: Run cc in a subshell in case they don't have a 'cc' command.
?X: Presumably they do have gcc or something.
 case "$cc" in
 '') modelcc="$cc" ;;
 *) modelcc="cc" ;;
 esac
 ( $modelcc -o pdp11 pdp11.c ) >/dev/null 2>&1
 if
 $test -f pdp11 && ./pdp11 2>/dev/null; then
  dflt='unsplit split'
 else
  tans=`./loc . X /lib/small /lib/large /usr/lib/small /usr/lib/large /lib/medium /usr/lib/medium /lib/huge`
  case "$tans" in
  X) dflt='none';;
  *) if $test -d /lib/small || $test -d /usr/lib/small; then
    dflt='small'
   else
    dflt=''
```

```
   fi
   if $test -d /lib/medium || $test -d /usr/lib/medium; then
    dflt="$dflt medium"
   fi
   if $test -d /lib/large || $test -d /usr/lib/large; then
    dflt="$dflt large"
   fi
   if $test -d /lib/huge || $test -d /usr/lib/huge; then
    dflt="$dflt huge"
   fi
  esac
 fi;;
*) dflt="$models";;
esac
$cat <<EOM

Some systems have different model sizes.  On most systems they are called
small, medium, large, and huge.  On the PDP11 they are called unsplit and
split.  If your system doesn't support different memory models, say "none".
If you wish to force everything to one memory model, say "none" here and
put the appropriate flags later when it asks you for other
 cc and ld flags.
Venix systems may wish to put "none" and let the compiler figure things out.
(In the following question multiple model names should be space separated.)

The default for most systems is "none".

EOM
rp="Which memory models are supported?"
. ./myread
models="$ans"

case "$models" in
none)
 small=''
 medium=''
 large=''
 huge=''
 unsplit=''
 split=''
 ;;
*split)
 case "$split" in
 '') if $contains '\-i' $sysman/ld.1 >/dev/null 2>&1 || \
    $contains '\-i' $sysman/cc.1 >/dev/null 2>&1; then
   dflt='-i'
  else
   dflt='none'
```

```
 fi;;
*) dflt="$split";;
esac
rp="What flag indicates separate I and D space?"
. ./myread
tans="$ans"
case "$tans" in
none) tans=";;
esac
split="$tans"
unsplit=";;
*large*|*small*|*medium*|*huge*)
case "$models" in
*large*)
 case "$large" in
 ") dflt='-Ml';;
 *) dflt="$large";;
 esac
rp="What flag indicates large model?"
. ./myread
tans="$ans"
case "$tans" in
none) tans=";
esac
large="$tans";;
*) large=";;
esac
case "$models"
in
*huge*) case "$huge" in
 ") dflt='-Mh';;
 *) dflt="$huge";;
 esac
 rp="What flag indicates huge model?"
 . ./myread
 tans="$ans"
 case "$tans" in
 none) tans=";
 esac
 huge="$tans";;
*) huge="$large";;
esac
case "$models" in
*medium*) case "$medium" in
 ") dflt='-Mm';;
 *) dflt="$medium";;
 esac
 rp="What flag indicates medium model?"
```

```
  . ./myread
  tans="$ans"
  case "$tans" in
  none) tans=";
  esac
  medium="$tans";;
 *) medium="$large";;
 esac
 case "$models" in
 *small*) case "$small" in
  ") dflt='none';;
  *) dflt="$small";;
  esac
  rp="What flag indicates small model?"
  . ./myread
  tans="$ans"
  case "$tans" in
  none) tans=";
  esac
  small="$tans";;
 *) small=";;
 esac
 ;;
*)
 echo "Unrecognized memory models--you may have to edit Makefile.SH" >&4
 ;;
esac
$rm -f pdp11.* pdp11
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/models.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extractall.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:00:43  ram
?RCS: patch61: created
?RCS:
```

```
?X:
?X: If extraction has been requested, load the configuration file, perform
?X: the extraction and exit.
?X:
?X: This unit was originally a part of Options.U. It had to be removed from
?X: it to prevent a dependency cycle: Extract -> src -> Options -> Extract
?X: The Begin.U unit now requires us before beginning to do anything
?X: interesting, to ensure proper semantics. -- RAM, 15/03/96
?X:
?MAKE:Extractall:
 Extract Options
?MAKE: -pick wipe $@ %<
: extract files and exit if asked to do so
case "$extractsh" in
true)
?X: Undo the forced silent=true when -S was supplied, by probing realsilent
?X: which was set iff -s was also given. See Options.U for details.
 case "$realsilent" in
 true) ;;
 *) exec 1>&4;;
 esac
 case "$config_sh" in
 ") config_sh='config.sh';;
 esac
 echo " "
 echo "Fetching answers from $config_sh..."
 cd ..
 . $config_sh
 test "$override" && . ./optdef.sh
 echo " "
?X: extract has to be run from the top directory, not within UU.
 . UU/extract
 rm -rf UU
 echo "Extraction done."
 exit 0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Extractall.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sitelib.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sitelib.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?RCS: Revision 3.0.1.1  1997/02/28  16:21:35  ram
?RCS: patch61: created
?RCS:
?MAKE:sitelib sitelibexp installsitelib sitelib_stem: cat Getfile Oldconfig \
 Setprefixvar Prefixit package version sed installstyle siteprefix
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitelib=''
?S:sitelib:
?S: This variable contains the
 eventual value of the SITELIB symbol,
?S: which is the name of the private library for this package.  It may
?S: have a ~ on the front. It is up to the makefile to eventually create
?S: this directory while performing installation (with ~ substitution).
?S: The standard distribution will put nothing in this directory.
?S: After perl has been installed, users may install their own local
?S: architecture-independent modules in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitelibexp=''
?S:sitelibexp:
?S: This variable is the ~name expanded version of sitelib, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installsitelib=''
?S:installsitelib:
?S: This variable is really the same as sitelibexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?S:sitelib_stem:
?S: This variable is $sitelibexp with any trailing version-specific component
?S: removed.
  The elements in inc_version_list (inc_version_list.U) can
?S: be tacked onto this variable to generate a list of directories to search.
?S:.
?C:SITELIB:
```

```
?C: This symbol contains the name of the private library for this package.
?C: The library is private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.  The program
?C: should be prepared to do ~ expansion.
?C: The standard distribution will put nothing in this directory.
?C: After perl has been installed, users may install their own local
?C: architecture-independent modules in this directory with
?C:  MakeMaker Makefile.PL
?C: or equivalent.  See INSTALL for details.
?C:.
?C:SITELIB_EXP:
?C: This symbol contains the ~name expanded version of SITELIB, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?C:SITELIB_STEM:
?C: This define is SITELIB_EXP with any trailing version-specific component
?C: removed.  The elements in
 inc_version_list (inc_version_list.U) can
?C: be tacked onto this variable to generate a list of directories to search.
?C:.
?H:#define SITELIB "$sitelib"  /**/
?H:#define SITELIB_EXP "$sitelibexp"  /**/
?H:#define SITELIB_STEM "$sitelib_stem"  /**/
?H:.
?T:prog
?LINT:change prefixvar
?LINT:set installsitelib
?LINT:set sitelib
?LINT:set sitelibexp
: determine where site specific libraries go.
: Usual default is /usr/local/lib/perl5/site_perl/$version
: The default "style" setting is made in installstyle.U
: XXX No longer works with Prefixit stuff.
?X: remove any trailing -3.0 or other version identification
prog=`echo $package | $sed 's/-*[0-9.]*$//'`
case "$sitelib" in
") case "$installstyle" in
 *lib/perl5*) dflt=$siteprefix/lib/$package/site_$prog/$version ;;
 *)  dflt=$siteprefix/lib/site_$prog/$version ;;
 esac
 ;;
*) dflt="$sitelib"
 ;;
esac
$cat <<EOM

The installation process will create a directory for
site-specific extensions and modules.  Most users find it convenient
```

```
to place
 all site-specific files in this directory rather than in the
main distribution directory.

EOM
fn=d~+
rp='Pathname for the site-specific library files?'
. ./getfile
prefixvar=sitelib
. ./setprefixvar
sitelib_stem=`echo "$sitelibexp" | sed "s,/$version$,,"`
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/sitelib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: pkgsrc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:pkgsrc: src rsrc
?MAKE: -pick add $@ %<
?S:pkgsrc:
?S: This variable holds the absolute path of the package source.
?S:.
?C:PACKAGE_SOURCE_DIR:
?C: Holds the directory name holding the package source.
?C:.
?H:#define PACKAGE_SOURCE_DIR "$pkgsrc"
?H:.
: define absolute package source directory
case "$src" in
/*) pkgsrc=$src;;
*) pkgsrc=`cd $rsrc; pwd`;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/pkgsrc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2008 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_ctime64 d_localtime64 d_gmtime64 d_mktime64 d_difftime64 d_asctime64: Inlibc
?MAKE: -pick add $@ %<
?S:d_ctime64:
?S: This variable conditionally defines the HAS_CTIME64 symbol, which
?S: indicates to the C program that the ctime64 () routine is available.
?S:.
?S:d_localtime64:
?S: This variable conditionally defines the HAS_LOCALTIME64 symbol, which
?S: indicates to the C program that the localtime64 () routine is available.
?S:.
?S:d_gmtime64:
?S: This variable conditionally defines the HAS_GMTIME64 symbol, which
?S: indicates to the C program that the gmtime64 () routine is available.
?S:.
?S:d_mktime64:
?S: This variable conditionally defines the HAS_MKTIME64 symbol, which
?S: indicates to the
 C program that the mktime64 () routine is available.
?S:.
?S:d_difftime64:
?S: This variable conditionally defines the HAS_DIFFTIME64 symbol, which
?S: indicates to the C program that the difftime64 () routine is available.
?S:.
?S:d_asctime64:
?S: This variable conditionally defines the HAS_ASCTIME64 symbol, which
?S: indicates to the C program that the asctime64 () routine is available.
?S:.
?C:HAS_CTIME64:
?C: This symbol, if defined, indicates that the ctime64 () routine is
?C: available to do the 64bit variant of ctime ()
?C:.
?C:HAS_LOCALTIME64:
?C: This symbol, if defined, indicates that the localtime64 () routine is
?C: available to do the 64bit variant of localtime ()
?C:.
?C:HAS_GMTIME64:
?C: This symbol, if defined, indicates that the gmtime64 () routine is
?C: available to do the 64bit variant of gmtime ()
?C:.
?C:HAS_MKTIME64:
?C: This symbol, if defined, indicates that the mktime64 () routine is
```

```
?C: available to do the 64bit variant of mktime ()
?C:.
?C:HAS_DIFFTIME64:
?C: This
 symbol, if defined, indicates that the difftime64 () routine is
?C: available to do the 64bit variant of difftime ()
?C:.
?C:HAS_ASCTIME64:
?C: This symbol, if defined, indicates that the asctime64 () routine is
?C: available to do the 64bit variant of asctime ()
?C:.
?H:#$d_ctime64 HAS_CTIME64  /**/
?H:#$d_localtime64 HAS_LOCALTIME64  /**/
?H:#$d_gmtime64 HAS_GMTIME64  /**/
?H:#$d_mktime64 HAS_MKTIME64  /**/
?H:#$d_difftime64 HAS_DIFFTIME64  /**/
?H:#$d_asctime64 HAS_ASCTIME64  /**/
?H:.
?LINT:set d_ctime64 d_localtime64 d_gmtime64 d_mktime64 d_difftime64 d_asctime64
: see if 64bit time functions exists

set ctime64 d_ctime64
eval $inlibc

set localtime64 d_localtime64
eval $inlibc

set gmtime64 d_gmtime64
eval $inlibc

set mktime64 d_mktime64
eval $inlibc

set difftime64 d_difftime64
eval $inlibc

set asctime64 d_asctime64
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_timefuncs64.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setpgrp.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:44:16  ram
?RCS: patch61: obsoleted USE_BSDGRP in favor of USE_BSD_SETPGRP
?RCS: patch61: another unit now also defines a USE_BSD_GETPGRP
?RCS: patch61: fallback for test program failure improved
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  13:59:30  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:15:37  ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
 patch36: call ./usg explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setpgrp d_bsdsetpgrp: cat rm +cc +libs +ccflags \
 +ldflags Inlibc Guess Setvar i_unistd
?MAKE: -pick add $@ %<
?S:d_setpgrp:
?S: This variable conditionally defines HAS_SETPGRP if setpgrp() is
?S: available to set the current process group.
?S:.
?S:d_bsdsetpgrp (d_bsdpgrp):
?S: This variable conditionally defines USE_BSD_SETPGRP if
?S: setpgrp needs two arguments whereas USG one needs none.
?S: See also d_setpgid for a POSIX interface.
?S:.
?C:HAS_SETPGRP (SETPGRP):
?C: This symbol, if defined, indicates that the setpgrp routine is
?C: available to set the current process group.
?C:.
?C:USE_BSD_SETPGRP (USE_BSDPGRP BSDPGRP):
?C: This symbol, if defined, indicates that setpgrp needs two
?C: arguments whereas USG one needs none.  See also HAS_SETPGID
?C: for a POSIX interface.
?C:.
?H:#$d_setpgrp HAS_SETPGRP  /**/
?H:#$d_bsdsetpgrp
 USE_BSD_SETPGRP /**/
?H:.
```

```
?F:!set.c !set
?T:xxx
?LINT:set d_setpgrp d_bsdsetpgrp
: see if setpgrp exists
set setpgrp d_setpgrp
eval $inlibc

@if USE_BSD_SETPGRP || d_bsdsetpgrp
case "$d_setpgrp" in
"$define")
 echo " "
 echo "Checking to see which flavor of setpgrp is in use..."
 $cat >set.c <<EOP
#$i_unistd I_UNISTD
#include <sys/types.h>
#ifdef I_UNISTD
#  include <unistd.h>
#endif
int main()
{
 if (getuid() == 0) {
  printf("(I see you are running Configure as super-user...)\n");
  setuid(1);
 }
#ifdef TRY_BSD_PGRP
 if (-1 == setpgrp(1, 1))
  exit(0);
#else
 if (setpgrp() != -1)
  exit(0);
#endif
 exit(1);
}
EOP
 if $cc -DTRY_BSD_PGRP $ccflags $ldflags -o set set.c $libs >/dev/null 2>&1 && ./set; then
  echo 'You have to use setpgrp(pid,pgrp) instead of setpgrp().' >&4
  val="$define"
 elif $cc $ccflags $ldflags -o set set.c $libs >/dev/null 2>&1 && ./set; then
  echo 'You have to use setpgrp() instead of setpgrp(pid,pgrp).' >&4
  val="$undef"
 else
  echo "(I can't
 seem to compile and run the test program.)"
  if ./usg; then
   xxx="a USG one, i.e. you use setpgrp()."
  else
   # SVR4 systems can appear rather BSD-ish.
   case "$i_unistd" in
```

```
  $undef)
   xxx="a BSD one, i.e. you use setpgrp(pid,pgrp)."
   val="$define"
   ;;
  $define)
   xxx="probably a USG one, i.e. you use setpgrp()."
   val="$undef"
   ;;
  esac
 fi
 echo "Assuming your setpgrp is $xxx" >&4
fi
;;
*) val="$undef";;
esac
set d_bsdsetpgrp
eval $setvar
$rm -f set set.c
@end
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_setpgrp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: lns.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  07:05:52  ram
?RCS: patch30: created by ADO
?RCS:
?X:
?X: This unit checks whether symbolic links are really supported.
?X: We can't rely on d_symlink because that may be listed in the
?X: C library but unimplemented.
?X:
?MAKE:lns: ln rm touch test
?MAKE: -pick add $@ %<
```

```
?S:lns:
?S: This variable holds the name of the command to make
?S: symbolic links (if they are supported).
  It can be used
?S: in the Makefile. It is either 'ln -s' or 'ln'
?S:.
: determine whether symbolic links are supported
echo " "
$rm -f blurfl sym
$touch blurfl
if $ln -s blurfl sym > /dev/null 2>&1 && $test -f sym; then
 echo "Symbolic links are supported." >&4
 lns="$ln -s"
else
 echo "Symbolic links are NOT supported." >&4
 lns="$ln"
fi
$rm -f blurfl sym
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/lns.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_dld.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_dld.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:20:07  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:i_dld: Inhdr
?MAKE: -pick add $@ %<
?S:i_dld:
?S: This variable conditionally defines the I_DLD symbol, which
?S: indicates to the C program that <dld.h> (GNU dynamic loading)
?S: exists and should be included.
?S:.
?C:I_DLD:
```

```
?C: This symbol, if defined, indicates that <dld.h>
 exists and should
?C: be included before using GNU dynamic loading features.
?C:.
?H:#$i_dld I_DLD /**/
?H:.
?LINT:set i_dld
: see if dld is available
set dld.h i_dld
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_dld.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Csym.U,v $
?RCS: Revision 3.0.1.4  1995/07/25  13:36:29  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS: patch56: added quotes for OS/2 support
?RCS:
?RCS: Revision 3.0.1.3  1995/05/12  12:00:33  ram
?RCS: patch54: fixed C test program to bypass gcc builtin type checks (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/10/31  09:34:13  ram
?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:00:05  ram
?RCS:
 patch6: added ldflags as a conditional dependency and to compile line
?RCS: patch6: a final double quote was missing in csym variable after eval
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:Csym: Options contains libc libs runnm +cc +ccflags +ldflags rm
?MAKE: -pick add $@ %<
?LINT:define csym
```

```
?LINT:use libc
?S:csym:
?S: This shell variable is used internally by Configure to check
?S: wether a given C symbol is defined or not. A typical use is:
?S:  set symbol result [-fva] [previous]
?S:  eval $csym
?S: That will set result to 'true' if the function [-f], variable [-v]
?S: or array [-a] is defined, 'false' otherwise. If a previous value is
?S: given and the -r flag was provided on the command line, that value
?S: is reused without questioning.
?S:.
?V:csym
?T:tval tx tlook tf tdc tc
: is a C symbol defined?
csym='tlook=$1;
case "$3" in
-v) tf=libc.tmp; tc=""; tdc="";;
-a) tf=libc.tmp; tc="[0]"; tdc="[]";;
*) tlook="^$1\$";
 tf=libc.list; tc=""; tdc="()";;
esac;
tx=yes;
case "$reuseval-$4" in
true-) ;;
true-*) tx=no; eval "tval=\$$4"; case "$tval" in "") tx=yes;; esac;;
esac;
case "$tx" in
yes)
 case "$runnm" in
 true)
  if $contains $tlook $tf >/dev/null 2>&1;
  then tval=true;
  else tval=false;
  fi;;
 *)
?X:
?X: We use 'char' instead of 'int' to try to circumvent overzealous
?X: optimizing compilers using built-in prototypes for commonly used
?X: routines to complain when seeing a different external declaration. For
?X: instance, gcc 2.6.3 fails if we use 'int' and we attempt a test against
?X: memcpy() on machines where sizeof(int) == sizeof(char *) (the usual return
?X: type), the compiler assuming it's a built-in declaration given that the
?X: returned size matches. At least with 'char' we are safe! -- RAM, for ADO
?X:
?X: Let's thank GNU cc for making our lifes so easy! :-)
?X: (An alternative for the future would be to use our knowledge about gcc
?X: to force a -fno-builtin option in the
```

```
 compile test, in case the 'char'
?X: trick is obsoleted by future gcc releases). -- RAM
?X:
?X: Lastly, gcc 3.4 otimizes &missing == 0 away, so we use + 2 instead now.
?X: The GNU folks like to do weird things, don't they? -- RAM, 2004-06-05
?X:
  echo "extern char $1$tdc; int main() { return &$1$tc + 2; }" > t.c;
  if $cc $ccflags $ldflags -o t t.c $libs >/dev/null 2>&1;
  then tval=true;
  else tval=false;
  fi;
  $rm -f t t.c;;
 esac;;
*)
 case "$tval" in
 $define) tval=true;;
 *) tval=false;;
 esac;;
esac;
eval "$2=$tval"'
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Csym.U
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```
?RCS: $Id: mailfile.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: mailfile.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:24:57  ram
?RCS: patch36: the Loc unit was missing from the dependency line
?RCS:
?RCS: Revision 3.0.1.1  1993/12/15  08:22:08  ram
?RCS: patch15: now also looks under /var/mail for BSD/386
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:11  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:mailfile: Myread Oldconfig Filexp Loc
?MAKE: -pick add $@ %<
```

```
?S:mailfile:
?S: This variable contains
 the eventual value of the MAILFILE symbol,
?S: which contains an interpretable name of the mail spool file for the
?S: current user.
?S:.
?C:MAILFILE:
?C: This symbol contains the interpretable name of the mail spool file
?C: for the current user.  The program must be prepared to substitute
?C: the HOME directory for %~, and the login id for %L.
?C:.
?H:#define MAILFILE "$mailfile"  /**/
?H:.
: determine where mail is spooled
case "$mailfile" in
")
 dflt=`./loc . XXX /usr/spool/mail /usr/mail /var/mail`
 case "$dflt" in
 XXX) dflt='%~/mailbox';;
 *) dflt="$dflt/%L";;
 esac
 ;;
*)  dflt="$mailfile"
 ;;
esac
cat <<'EOM'

In the following question, you may use %~ to represent the user's home
directory, and %L to represent a users name.

EOM
rp='In which file is yet-to-be-read mail spooled? (~name ok)'
. ./myread
mailfile=`./filexp "$ans"`
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/mailfile.U
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```
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?RCS:
?MAKE:d_fpclass: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_fpclass:
?S: This variable conditionally defines the HAS_FPCLASS symbol, which
?S: indicates to the C program that the fpclass() routine is available.
?S:.
?C:HAS_FPCLASS:
?C: This symbol, if defined, indicates that the fpclass routine is
?C: available to classify doubles.  Available for example in Solaris/SVR4.
?C: The returned values are defined in <ieeefp.h> and are:
?C:
?C: FP_SNAN  signaling NaN
?C: FP_QNAN  quiet NaN
?C: FP_NINF  negative infinity
?C: FP_PINF  positive infinity
?C: FP_NDENORM negative denormalized non-zero
?C: FP_PDENORM positive denormalized non-zero
?C: FP_NZERO negative zero
?C: FP_PZERO positive zero
?C: FP_NNORM negative normalized
 non-zero
?C: FP_PNORM positive normalized non-zero
?C:.
?H:#$d_fpclass HAS_FPCLASS  /**/
?H:.
?LINT:set d_fpclass
: see if fpclass exists
set fpclass d_fpclass
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fpclass.U
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```
?RCS: $Id: d_random_r.U,v 0RCS:
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?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_random_r random_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_stdlib extern_C
?MAKE: -pick add $@ %<
?S:d_random_r:
?S: This variable conditionally defines the HAS_RANDOM_R symbol,
?S: which indicates to the C program that the random_r()
```

```
?S: routine is available.
?S:.
?S:random_r_proto:
?S: This variable encodes the prototype of random_r.
?S: It is zero if d_random_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_random_r
?S: is defined.
?S:.
?C:HAS_RANDOM_R:
?C: This symbol, if defined, indicates that the random_r routine
?C: is available to random re-entrantly.
?C:.
?C:RANDOM_R_PROTO:
?C: This
 symbol encodes the prototype of random_r.
?C: It is zero if d_random_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_random_r
?C: is defined.
?C:.
?H:#$d_random_r HAS_RANDOM_R /**/
?H:#define RANDOM_R_PROTO $random_r_proto /**/
?H:.
?T:try hdrs d_random_r_proto
: see if random_r exists
set random_r d_random_r
eval $inlibc
case "$d_random_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_stdlib stdlib.h"
 case "$d_random_r_proto:$usethreads" in
 ":define") d_random_r_proto=define
  set d_random_r_proto random_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_random_r_proto" in
 define)
 case "$random_r_proto" in
 "|0) try='int random_r(int*, struct random_data*);'
 ./protochk "$extern_C $try" $hdrs && random_r_proto=I_iS ;;
 esac
 case "$random_r_proto" in
 "|0) try='int random_r(long*, struct random_data*);'
 ./protochk "$extern_C $try" $hdrs && random_r_proto=I_lS ;;
 esac
 case "$random_r_proto" in
 "|0)
```

```
 try='int random_r(struct random_data*, int32_t*);'
 ./protochk "$extern_C $try" $hdrs && random_r_proto=I_St ;;
 esac
 case "$random_r_proto" in
 "|0) d_random_r=undef
  random_r_proto=0
  echo "Disabling random_r, cannot determine prototype." >&4 ;;
 * ) case "$random_r_proto" in
  REENTRANT_PROTO*) ;;
  *) random_r_proto="REENTRANT_PROTO_$random_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "random_r has no prototype, not using it." >&4 ;;
  esac
  d_random_r=undef
  random_r_proto=0
  ;;
 esac
 ;;
*) random_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_random_r.U
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```
?RCS: $Id: d_readlink.U 1 2006-08-24 12:32:52Z rmanfredi $
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_readlink.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:11:52  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_readlink: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_readlink:
?S: This variable conditionally defines the HAS_READLINK symbol, which
?S: indicates to the C program that the readlink() routine is available
?S: to read the value of a symbolic link.
?S:.
?C:HAS_READLINK :
?C: This
 symbol, if defined, indicates that the readlink routine is
?C: available to read the value of a symbolic link.
?C:.
?H:#$d_readlink HAS_READLINK  /**/
?H:.
?LINT:set d_readlink
: see if readlink exists
set readlink d_readlink
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_readlink.U
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```
?RCS: $Id: d_locconv.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_locconv.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:14:11  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_locconv: Inlibc
?MAKE: -pick add $@ %<
?S:d_locconv:
?S: This variable conditionally defines HAS_LOCALECONV if localeconv() is
?S: available for numeric and monetary formatting conventions.
?S:.
?C:HAS_LOCALECONV:
?C: This symbol, if defined, indicates that the localeconv
```

routine is
?C: available for numeric and monetary formatting conventions.
?C:.
?H:#$d_locconv HAS_LOCALECONV /**/
?H:.
?LINT:set d_locconv
: see if localeconv exists
set localeconv d_locconv
eval $inlibc

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_locconv.U
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fstatfs : Inlibc
?MAKE: -pick add $@ %<
?S:d_fstatfs:
?S: This variable conditionally defines the HAS_FSTATFS symbol, which
?S: indicates to the C program that the fstatfs() routine is available.
?S:.
?C:HAS_FSTATFS:
?C: This symbol, if defined, indicates that the fstatfs routine is
?C: available to stat filesystems by file descriptors.
?C:.
?H:#$d_fstatfs HAS_FSTATFS /**/
?H:.
?LINT:set d_fstatfs
: see if fstatfs exists
set fstatfs d_fstatfs
eval $inlibc

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fstatfs.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_wait4.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:

```
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?RCS:
?RCS: $Log: d_wait4.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_wait4: Inlibc
?MAKE: -pick add $@ %<
?S:d_wait4:
?S: This variable conditionally defines the HAS_WAIT4 symbol, which
?S: indicates the wait4() routine is available.
?S:.
?C:HAS_WAIT4 (WAIT4):
?C: This symbol, if defined, indicates that wait4() exists.
?C:.
?H:#$d_wait4 HAS_WAIT4 /**/
?H:.
?LINT:set d_wait4
: see if there is a wait4
set
 wait4 d_wait4
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_wait4.U
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```
?RCS: $Id: d_longdbl.U,v $
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?RCS:
?RCS: $Log: d_longdbl.U,v $
?RCS:
?MAKE:d_longdbl longdblsize d_ldexpl longdblkind \
 d_long_double_style_ieee d_long_double_style_ieee_doubledouble \
 d_long_double_style_ieee_extended d_long_double_style_ieee_std \
 d_long_double_style_vax: Compile Setvar Myread \
 Inlibc run echo cat rm_try test doublesize i_stdlib
?MAKE: -pick add $@ %<
?S:d_longdbl:
```

```
?S: This variable conditionally defines HAS_LONG_DOUBLE if
?S: the long double type is supported.
?S:.
?S:d_ldexpl:
?S: This variable conditionally defines the HAS_LDEXPL symbol, which
?S: indicates to the C program that the ldexpl() routine is available.
?S:.
?S:longdblsize:
?S: This variable contains the value of the LONG_DOUBLESIZE symbol,
 which
?S: indicates to the C program how many bytes there are in a long double,
?S: if this system supports long doubles.  Note that this is
?S: sizeof(long double), which may include unused bytes.
?S:.
?S:longdblkind:
?S: This variable, if defined, encodes the type of a long double:
?S:  0 = double,
?S:  1 = IEEE 754 128-bit little endian,
?S:  2 = IEEE 754 128-bit big endian,
?S:  3 = x86 80-bit little endian,
?S:  4 = x86 80-bit big endian,
?S:  5 = double-double 128-bit little endian,
?S:  6 = double-double 128-bit big endian,
?S:  7 = 128-bit mixed-endian double-double (64-bit LEs in BE),
?S:  8 = 128-bit mixed-endian double-double (64-bit BEs in LE),
?S:  9 = 128-bit PDP-style mixed-endian long doubles,
?S: -1 = unknown format.
?S:.
?S:d_long_double_style_ieee:
?S: This variable conditionally defines LONG_DOUBLE_STYLE_IEEE
?S: if the long double is any of the IEEE 754 style long doubles:
?S: LONG_DOUBLE_STYLE_IEEE_STD, LONG_DOUBLE_STYLE_IEEE_EXTENDED,
?S: LONG_DOUBLE_STYLE_IEEE_DOUBLEDOUBLE.
?S:.
?S:d_long_double_style_ieee_doubledouble:
?S: This
 variable conditionally defines LONG_DOUBLE_STYLE_IEEE_DOUBLEDOUBLE
?S: if the long double is the 128-bit IEEE 754 double-double.
?S:.
?S:d_long_double_style_ieee_extended:
?S: This variable conditionally defines LONG_DOUBLE_STYLE_IEEE_EXTENDED
?S: if the long double is the 80-bit IEEE 754 extended precision.
?S: Note that despite the 'extended' this is less than the 'std',
?S: since this is an extension of the double precision.
?S:.
?S:d_long_double_style_ieee_std:
?S: This variable conditionally defines LONG_DOUBLE_STYLE_IEEE_STD
?S: if the long double is the 128-bit IEEE 754.
```

```
?S:.
?S:d_long_double_style_vax:
?S: This variable conditionally defines LONG_DOUBLE_STYLE_VAX
?S: if the long double is the 128-bit VAX format H.
?S:.
?C:HAS_LONG_DOUBLE:
?C: This symbol will be defined if the C compiler supports long
?C: doubles.
?C:.
?C:LONG_DOUBLESIZE:
?C: This symbol contains the size of a long double, so that the
?C: C
 preprocessor can make decisions based on it.  It is only
?C: defined if the system supports long doubles.  Note that this
?C: is sizeof(long double), which may include unused bytes.
?C:.
?C:HAS_LDEXPL:
?C: This symbol, if defined, indicates that the ldexpl routine is
?C: available to shift a long double floating-point number
?C: by an integral power of 2.
?C:.
?C:LONG_DOUBLEKIND:
?C: LONG_DOUBLEKIND will be one of
?C: LONG_DOUBLE_IS_DOUBLE
?C: LONG_DOUBLE_IS_IEEE_754_128_BIT_LITTLE_ENDIAN
?C: LONG_DOUBLE_IS_IEEE_754_128_BIT_BIG_ENDIAN
?C: LONG_DOUBLE_IS_X86_80_BIT_LITTLE_ENDIAN
?C: LONG_DOUBLE_IS_X86_80_BIT_BIG_ENDIAN
?C: LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_LE
?C: LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_BE
?C: LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_BE
?C: LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_LE
?C: LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LITTLE_ENDIAN
?C: LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BIG_ENDIAN
?C: LONG_DOUBLE_IS_VAX_H_FLOAT
?C: LONG_DOUBLE_IS_UNKNOWN_FORMAT
?C: It is only defined
 if the system supports long doubles.
?C:.
?C:LONG_DOUBLE_STYLE_IEEE:
?C: This symbol, if defined, indicates that the long double
?C: is any of the IEEE 754 style long doubles:
?C: LONG_DOUBLE_STYLE_IEEE_STD, LONG_DOUBLE_STYLE_IEEE_EXTENDED,
?C: LONG_DOUBLE_STYLE_IEEE_DOUBLEDOUBLE.
?C:.
?C:LONG_DOUBLE_STYLE_IEEE_DOUBLEDOUBLE:
?C: This symbol, if defined, indicates that the long double is
?C: the 128-bit double-double.
```

```
?C:.
?C:LONG_DOUBLE_STYLE_IEEE_EXTENDED:
?C: This symbol, if defined, indicates that the long double is
?C: the 80-bit IEEE 754. Note that despite the 'extended' this
?C: is less than the 'std', since this is an extension of
?C: the double precision.
?C:.
?C:LONG_DOUBLE_STYLE_IEEE_STD:
?C: This symbol, if defined, indicates that the long double is
?C: the 128-bit IEEE 754.
?C:.
?C:LONG_DOUBLE_STYLE_VAX:
?C: This symbol, if defined, indicates that the long double is
?C: the 128-bit VAX format H.
?C:.
?H:#$d_ldexpl  HAS_LDEXPL  /**/
?H:#$d_longdbl HAS_LONG_DOUBLE  /**/
?H:?LONG_DOUBLESIZE:#ifdef
 HAS_LONG_DOUBLE
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLESIZE $longdblsize  /**/
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLEKIND $longdblkind  /**/
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLE    0
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_IEEE_754_128_BIT_LITTLE_ENDIAN 1
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_IEEE_754_128_BIT_BIG_ENDIAN 2
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_X86_80_BIT_LITTLE_ENDIAN  3
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_X86_80_BIT_BIG_ENDIAN  4
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_LE 5
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_BE 6
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_BE 7
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_LE 8
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_VAX_H_FLOAT   9
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_UNKNOWN_FORMAT   -1
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LITTLE_ENDIAN
LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_LE
 /* back-compat */
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BIG_ENDIAN
LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_BE /* back-compat */
?H:?LONG_DOUBLESIZE:#$d_long_double_style_ieee LONG_DOUBLE_STYLE_IEEE
?H:?LONG_DOUBLESIZE:#$d_long_double_style_ieee_doubledouble
LONG_DOUBLE_STYLE_IEEE_DOUBLEDOUBLE
?H:?LONG_DOUBLESIZE:#$d_long_double_style_ieee_extended
LONG_DOUBLE_STYLE_IEEE_EXTENDED
?H:?LONG_DOUBLESIZE:#$d_long_double_style_ieee_std LONG_DOUBLE_STYLE_IEEE_STD
?H:?LONG_DOUBLESIZE:#$d_long_double_style_vax LONG_DOUBLE_STYLE_VAX
?H:?LONG_DOUBLESIZE:#endif
?H:.
?F:!try
?LINT:known LONG_DOUBLE_IS_DOUBLE LONG_DOUBLE_IS_IEEE_754_128_BIT_LITTLE_ENDIAN
```

```
?LINT:known LONG_DOUBLE_IS_IEEE_754_128_BIT_BIG_ENDIAN
LONG_DOUBLE_IS_X86_80_BIT_LITTLE_ENDIAN
?LINT:known LONG_DOUBLE_IS_X86_80_BIT_BIG_ENDIAN
LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LITTLE_ENDIAN
?LINT:known LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BIG_ENDIAN
LONG_DOUBLE_IS_UNKNOWN_FORMAT
?LINT:known
 LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_LE
?LINT:known LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_BE
?LINT:known LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_BE
?LINT:known LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_LE
?LINT:known LONG_DOUBLE_IS_VAX_H_FLOAT
?LINT:set d_longdbl
?LINT:set d_ldexpl
: check for long doubles
echo " " >&4
echo "Checking to see if you have long double..." >&4
echo 'int main() { long double x = 7.0; }' > try.c
set try
if eval $compile; then
 val="$define"
 echo "You have long double." >&4
else
 val="$undef"
 echo "You do not have long double." >&4
fi
$rm_try
set d_longdbl
eval $setvar

: see if ldexpl exists
set ldexpl d_ldexpl
eval $inlibc

@if LONG_DOUBLESIZE || longdblsize
: check for length of long double
?X:  Check only if d_longdbl and if longdblsize is not already set.
case "${d_longdbl}${longdblsize}" in
$define)
 echo " " >&4
 echo "Checking to see how big your long doubles are..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
 printf("%d\n", sizeof(long
 double));
}
```

```
EOCP
 set try
?X: Don't use compile_ok because some compilers warn you that they have
?X: 'long double' as just 'double'.
 set try
 if eval $compile; then
  longdblsize=`$run ./try`
  echo "Your long doubles are $longdblsize bytes long." >&4
 else
  dflt='8'
  echo " " >&4
  echo "(I can't seem to compile the test program.  Guessing...)" >&4
  rp="What is the size of a long double (in bytes)?"
  . ./myread
  longdblsize="$ans"
 fi
 if $test "X$doublesize" = "X$longdblsize"; then
  echo "That isn't any different from an ordinary double." >&4
  echo "I'll keep your setting anyway, but you may see some" >&4
  echo "harmless compilation warnings." >&4
 fi
 ;;
esac
$rm_try
@end

$echo "Checking the kind of long doubles you have..." >&4
case "$d_longdbl" in
define)
$cat <<EOP >try.c
#$i_stdlib I_STDLIB
#define LONGDBLSIZE $longdblsize
#define DOUBLESIZE $doublesize
#include <float.h>
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <stdio.h>
static const long double
 d = -0.1L;
int main() {
 unsigned const char* b = (unsigned const char*)(&d);
#if DOUBLESIZE == LONGDBLSIZE
 printf("0\n"); /* if it floats like double */
 exit(0);
#endif
#if (LDBL_MANT_DIG == 113 || FLT128_MANT_DIG == 113) && LONGDBLSIZE == 16
 if (b[0] == 0x9A && b[1] == 0x99 && b[15] == 0xBF) {
```

```
  /* IEEE 754 128-bit little-endian */
  printf("1\n");
  exit(0);
 }
 if (b[0] == 0xBF && b[14] == 0x99 && b[15] == 0x9A) {
  /* IEEE 128-bit big-endian, e.g. solaris sparc */
  printf("2\n");
  exit(0);
 }
#endif
/* For alignment 32-bit platforms have the 80 bits in 12 bytes,
* while 64-bits platforms have it in 16 bytes.  The trailing bytes
* cannot be trusted. */
#if LDBL_MANT_DIG == 64 && (LONGDBLSIZE == 16 || LONGDBLSIZE == 12)
 if (b[0] == 0xCD && b[9] == 0xBF) {
  /* x86 80-bit little-endian, sizeof 12 (ILP32, Solaris x86)
   * or 16 (LP64, Linux and OS X), 4 or 6 bytes of padding.
   * Also known as "extended precision". */
  printf("3\n");
  exit(0);
 }
 if (b[0] == 0xBF && b[9] == 0xCD) {
  /* Is there ever big-endian 80-bit, really?
   *
   * The Motorola 68881 had another "extended precision" format:
   * sign:1 exp:15 zero:16 integer:1 mantissa:63
   * for total of 96 bits of bytes.  The zero bits were unused.
   * See "M68000 FAMILY PROGRAMMER'S REFERENCE MANUAL" for more details.
   * If it ever becomes relevant, this format should be allocated a
   * new doublekind code since it is quite different from the Intel x87.
   */
  printf("4\n");
  exit(0);
 }
#endif
#if (LDBL_MANT_DIG == 106 || LDBL_MANT_DIG == 107) && LONGDBLSIZE == 16
 /* software "double double", the 106 is 53+53.
  * but irix thinks it is 107. */
 if (b[0] == 0x9A && b[7] == 0x3C && b[8] == 0x9A && b[15] == 0xBF) {
  /* double double 128-bit fully little-endian,
   * little-endian doubles in little-endian order,
   * 9a 99 99 99 99 99 59 3c 9a 99 99 99 99 99 b9 bf */
  printf("5\n");
  exit(0);
 }
 if (b[0] == 0xBF && b[7]
 == 0x9A && b[8] == 0x3C && b[15] == 0x9A) {
  /* double double 128-bit fully big-endian,
```

```
    * big-endian doubles in big-endian order,
    * e.g. PPC/Power and MIPS:
    * bf b9 99 99 99 99 99 9a 3c 59 99 99 99 99 99 9a */
   printf("6\n");
   exit(0);
  }
  if (b[0] == 0x9A && b[7] == 0xBF && b[8] == 0x9A && b[15] == 0x3C) {
   /* double double 128-bit mixed endian.
    * little-endian doubles in big-endian order,
    * e.g. ppc64el,
    * 9a 99 99 99 99 99 b9 bf 9a 99 99 99 99 99 59 3c */
   printf("7\n");
   exit(0);
  }
  if (b[0] == 0x3C && b[7] == 0x9A && b[8] == 0xBF && b[15] == 0x9A) {
   /* double double 128-bit mixed endian,
    * big-endian doubles in little-endian order,
    * 3c 59 99 99 99 99 99 9a bf b9 99 99 99 99 99 9a */
   printf("8\n");
   exit(0);
  }
#endif
/* We are largely making this up because it may well be
* that the VAX format H was never made available to C,
* only to Fortran. */
#if LONGDBLSIZE == 16 && defined(__vax__)
 if (b[0]
 == 0xFD && b[15] == 0x99) {
   /* VAX format H, PDP-11 mixed endian. */
   printf("9\n");
   exit(0);
  }
#endif
 printf("-1\n"); /* unknown */
 exit(0);
}
EOP
set try
if eval $compile; then
   longdblkind=`$run ./try`
else
   longdblkind=-1
fi
;;
*) longdblkind=0 ;;
esac
case "$longdblkind" in
0) echo "Your long doubles are doubles." >&4 ;;
```

```
1) echo "You have IEEE 754 128-bit little endian long doubles." >&4 ;;
2) echo "You have IEEE 754 128-bit big endian long doubles." >&4 ;;
3) echo "You have x86 80-bit little endian long doubles." >&4 ;;
4) echo "You have x86 80-bit big endian long doubles." >&4 ;;
5) echo "You have 128-bit fully little-endian double-double long doubles (64-bit LEs in LE)." >&4 ;;
6) echo "You have 128-bit fully big-endian double-double long doubles (64-bit BEs in BE)." >&4 ;;
7) echo "You have 128-bit mixed-endian double-double long doubles (64-bit LEs in BE)." >&4 ;;
8) echo "You have 128-bit mixed-endian double-double long doubles (64-bit BEs in LE)." >&4
 ;;
9) echo "You have 128-bit PDP-style mixed-endian long doubles (VAX format H)." >&4 ;;
*) echo "Cannot figure out your long double." >&4 ;;
esac
d_long_double_style_ieee=$undef
d_long_double_style_ieee_std=$undef
d_long_double_style_ieee_extended=$undef
d_long_double_style_ieee_doubledouble=$undef
d_long_double_style_vax=$undef
case "$longdblkind" in
1|2|3|4|5|6|7|8) d_long_double_style_ieee=$define ;;
esac
case "$longdblkind" in
1|2) d_long_double_style_ieee_std=$define ;;
esac
case "$longdblkind" in
3|4) d_long_double_style_ieee_extended=$define ;;
esac
case "$longdblkind" in
5|6|7|8) d_long_double_style_ieee_doubledouble=$define ;;
esac
case "$longdblkind" in
9) d_long_double_style_vax=$define ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_longdbl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pipe.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_pipe.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:11:44  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_pipe: Inlibc
?MAKE: -pick add $@ %<
?S:d_pipe:
?S: This variable conditionally defines the HAS_PIPE symbol, which
?S: indicates to the C program that the pipe() routine is available
?S: to create an inter-process channel.
?S:.
?C:HAS_PIPE :
?C: This symbol, if defined, indicates
 that the pipe routine is
?C: available to create an inter-process channel.
?C:.
?H:#$d_pipe HAS_PIPE  /**/
?H:.
?LINT:set d_pipe
: see if pipe exists
set pipe d_pipe
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_pipe.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_stdlib.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_stdlib.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_stdlib: Nothing
?MAKE: -pick add $@ %<
?S:i_stdlib:
```

```
?S: This variable unconditionally defines the I_STDLIB symbol.
?S:.
?C:I_STDLIB:
?C: This symbol is always defined, indicating that <stdlib.h> exists
?C: and should be included.
?C:.
?H:#define I_STDLIB  /**/
?H:.
: stub, used only to satisfy other units
i_stdlib='define'
```

Found in
 path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/i_stdlib.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_lc_monetary_2008: cat Compile rm_try d_locconv
?MAKE: -pick add $@ %<
?S:d_lc_monetary_2008:
?S: This variable conditionally defines HAS_LC_MONETARY_2008 if libc
?S: has the international currency locale rules from POSIX
?S: 1003.1-2008.
?S:.
?C:HAS_LC_MONETARY_2008:
?C: This symbol, if defined, indicates that the localeconv routine is
?C: available and has the additional members added in POSIX 1003.1-2008.
?C:.
?H:#$d_lc_monetary_2008 HAS_LC_MONETARY_2008  /**/
?H:.
: see if libc has the POSIX.1-2008 currency locale rules
case "$d_locconv:$d_lc_monetary_2008" in
$define:)
 $cat
 >try.c <<EOCP
#include <locale.h>
int main() {
 struct lconv *lc = localeconv();
 char int_p_cs_precedes = lc->int_p_cs_precedes;
 return 0;
}
EOCP
```

```
 set try
 if eval $compile; then
  d_lc_monetary_2008="$define"
 else
  d_lc_monetary_2008="$undef"
 fi;
 $rm_try
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_lc_monetary_2008.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_su_chown.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_su_chown.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:40  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_su_chown: Csym Setvar
?MAKE: -pick add $@ %<
?S:d_su_chown (d_rootchown):
?S: This variable conditionally defines the SU_CHOWN symbol, which
?S: indicates to the C program that only root can chown() the owner
?S: of a file.
?S:.
?C:SU_CHOWN (ROOT_CHOWN):
?C: This symbol, if defined, indicates that the system allows only root
?C: can
 change the owner of a file with chown().
?C:.
?H:#$d_su_chown SU_CHOWN /**/
?H:.
?LINT:set d_su_chown
: see if 'chown()' is restricted.
: but not too hard, as it is late and I am tired. -- HMS
echo " "
if set setreuid val -f d_su_chown; eval $csym; $val; then
```

```
 echo 'It looks like only root can chown() the owner of a file.' >&4
 val="$define"
else
 echo 'It looks like root or the owner can chown() a file away.' >&4
 val="$undef"
fi
set d_su_chown
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_su_chown.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_perror.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_perror.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:11:38  ram
?RCS: patch32: always define HAS_PERROR even when not used in C code
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_perror: Inlibc
?MAKE: -pick add $@ %<
?S:d_perror:
?S: This variable conditionally remaps perror to a null action and
?S: defines the symbol HAS_PERROR, which indicates to the C program
?S: that the perror()
 routine is not available to print system
?S: error messages.
?S:.
?C:HAS_PERROR ~ %<:
?C: This symbol, if defined, indicates that the perror() routine is
?C: available to print system error messages. If not defined, you should
?C: use your own diagnostic routine...
?C:.
?C:perror ~ %<:
?C: This symbol is maped to null if the  perror() routine is not
?C: available to print system error messages.
```

```
?C:.
?H:?%<:#$d_perror HAS_PERROR /**/
?H:?%<:#ifndef HAS_PERROR
?H:?%<:#define perror(s) ;  /* mapped to a null statement */
?H:?%<:#endif
?H:.
?LINT:set d_perror
: see if perror exists
set perror d_perror
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_perror.U
No license file was found, but licenses were detected in source scan.

```
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:gidsize: Myread Typedef gidtype Compile run i_stdlib
?MAKE: -pick add $@ %<
?S:gidsize:
?S: This variable contains the size of a gidtype in bytes.
?S:.
?C:Gid_t_size:
?C: This symbol holds the size of a Gid_t in bytes.
?C:.
?H:#define Gid_t_size $gidsize  /* GID size */
?H:.
?T:yyy zzz
?F:!try
: Check the size of GID
echo " "
case "$gidtype" in
*_t) zzz="$gidtype" ;;
*)   zzz="gid"  ;;
esac
echo "Checking the size of $zzz..." >&4
cat > try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
```

```
#ifdef I_STDLIB
#include
 <stdlib.h>
#endif
int main() {
   printf("%d\n", (int)sizeof($gidtype));
   exit(0);
}
EOCP
set try
if eval $compile_ok; then
 yyy=`$run ./try`
 case "$yyy" in
 ") gidsize=4
  echo "(I can't execute the test program--guessing $gidsize.)" >&4
  ;;
 *) gidsize=$yyy
  echo "Your $zzz is $gidsize bytes long."
  ;;
 esac
else
 gidsize=4
 echo "(I can't compile the test program--guessing $gidsize.)" >&4
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/typedefs/gidsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Options.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Options.U,v $
?RCS: Revision 3.0.1.7  1997/02/28  15:08:15  ram
?RCS: patch61: optdef.sh now starts with a "startsh"
?RCS: patch61: moved some code from Head.U
?RCS:
?RCS: Revision 3.0.1.6  1995/09/25  09:14:46  ram
?RCS: patch59: protected option parsing code against 'echo -*' option failure
?RCS:
```

```
?RCS: Revision 3.0.1.5  1995/05/12  12:04:52  ram
?RCS: patch54: added -K option for experts
?RCS:
?RCS: Revision 3.0.1.4  1995/01/30  14:27:52  ram
?RCS:
 patch49: this unit now exports file optdef.sh, not a variable
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:19:00  ram
?RCS: patch45: new -O option allowing -D and -U to override config.sh settings
?RCS: patch45: file optdef.sh is no longer removed after sourcing
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  15:58:06  ram
?RCS: patch36: ensure option definition file is removed before appending
?RCS: patch36: protect variable definitions with spaces in them
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:55:44  ram
?RCS: patch30: now uses new me symbol to tag error messages
?RCS: patch30: new -D and -U options to define/undef symbols (JHI)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Command line parsing. It is really important that the variables used here
?X: be not listed in the MAKE line, or they will be saved in config.sh and
?X: loading this file to fetch default answers would clobber the values set
?X: herein.
?X:
?MAKE:Options:
 startsh
?MAKE: -pick wipe $@ %<
?V:reuseval alldone error realsilent silent extractsh fastread \
 knowitall: config_sh
?T:arg argn symbol config_arg0 config_args config_argc xxx yyy zzz uuu
?T:args_exp args_sep arg_exp ccflags
?F:!Configure
?F:./optdef.sh ./cmdline.opt ./posthint.sh ./cmdl.opt
: Save command line options in file UU/cmdline.opt for later use in
: generating config.sh.
?X: This temporary file will be read by Oldsym.U.  I used a temporary
?X: file to preserve all sorts of potential command line quotes and
?X: also because we don't know in advance how many variables we'll
?X: need, so I can't actually declare them on the MAKE line.
?X: The config_args variable won't be quite correct if Configure is
?X: fed something like    ./Configure -Dcc="gcc -B/usr/ccs/bin/"
?X: since the quotes are gone by the time we see them.  You'd have to
?X: reconstruct the command line from the config_arg? lines, but since
?X: I don't imagine anyone actually having to do that, I'm not going
```

```
?X:
 to worry too much.
cat > cmdline.opt <<EOSH
: Configure command line arguments.
config_arg0='$0'
config_args='$*'
config_argc=$#
EOSH
argn=1
args_exp=''
args_sep=''
for arg in "$@"; do
 cat >>cmdline.opt <<EOSH
config_arg$argn='$arg'
EOSH
?X: Extreme backslashitis: replace each ' by '''''
 cat <<EOC | sed -e "s/'/'''''''''''''''/g" > cmdl.opt
$arg
EOC
 arg_exp=`cat cmdl.opt`
 args_exp="$args_exp$args_sep'$arg_exp'"
 argn=`expr $argn + 1`
 args_sep=' '
done
?X: args_exp is good for restarting self: eval "set X $args_exp"; shift; $0 "$@"
?X: used by hints/os2.sh in Perl, for instance
rm -f cmdl.opt

: produce awk script to parse command line options
cat >options.awk <<'EOF'
BEGIN {
 optstr = "A:dD:eEf:hKOrsSU:V"; # getopt-style specification

 len = length(optstr);
 for (i = 1; i <= len; i++) {
  c = substr(optstr, i, 1);
?X: some older awk's do not have the C ?: construct
  if (i < len) a = substr(optstr, i + 1, 1); else a = "";
  if (a == ":") {
   arg[c] = 1;
   i++;
  }
  opt[c]
 = 1;
 }
}
{
 expect = 0;
```

```
 str = $0;
 if (substr(str, 1, 1) != "-") {
  printf("'%s'\n", str);
  next;
 }
 len = length($0);
 for (i = 2; i <= len; i++) {
  c = substr(str, i, 1);
  if (!opt[c]) {
   printf("-%s\n", substr(str, i));
   next;
  }
  printf("-%s\n", c);
  if (arg[c]) {
   if (i < len)
    printf("'%s'\n", substr(str, i + 1));
   else
    expect = 1;
   next;
  }
 }
}
END {
 if (expect)
  print "?";
}
EOF

: process the command line options
?X: Use "$@" to keep arguments with spaces in them from being split apart.
?X: For the same reason, awk will output quoted arguments and the final eval
?X: removes them and sets a proper $* array. An 'X' is prepended to each
?X: argument before being fed to echo to guard against 'echo -x', where -x
?X: would be understood as an echo option! It is removed before feeding awk.
set X `for arg in "$@"; do echo "X$arg"; done |
 sed -e s/X// | awk -f options.awk`
eval "set $*"
shift
rm -f options.awk

: set up default values
fastread=''
reuseval=false
config_sh=''
alldone=''
error=''
silent=''
extractsh=''
```

```
knowitall=''
rm
 -f optdef.sh posthint.sh
cat >optdef.sh <<EOS
$startsh
EOS

?X:
?X: Given that we now have the possibility to execute Configure remotely
?X: thanks to the new src.U support, we have to face the possibility
?X: of having to ask where the source lie, which means we need the Myread.U
?X: stuff and possibly other things that might echo something on the
?X: screen...
?X:
?X: That's not pretty, and might be confusing in 99% of the time. So...
?X: We introduce a new realsilent variable which is set when -s is given,
?X: and we force silent=true if -S is supplied. The Extractall.U unit
?X: will then undo the >&4 redirection based on the value of the
?X: realsilent variable... -- RAM, 18/93/96
?X:

: option parsing
while test $# -gt 0; do
 case "$1" in
 -d) shift; fastread=yes;;
 -e) shift; alldone=cont;;
 -f)
  shift
  cd ..
  if test -r "$1"; then
   config_sh="$1"
  else
   echo "$me: cannot read config file $1."
 >&2
   error=true
  fi
  cd UU
  shift;;
 --help|\
 -h) shift; error=true;;
 -r) shift; reuseval=true;;
 -s) shift; silent=true; realsilent=true;;
 -E) shift; alldone=exit;;
 -K) shift; knowitall=true;;
 -O) shift;;
 -S) shift; silent=true; extractsh=true;;
 -D)
  shift
```

```
 case "$1" in
 *=)
  echo "$me: use '-U symbol=', not '-D symbol='." >&2
  echo "$me: ignoring -D $1" >&2
  ;;
 *=*) echo "$1" | \
   sed -e "s/'/'\''\''/g" -e "s/=\(.*\)/='\1'/" >> optdef.sh;;
 *) echo "$1='define'" >> optdef.sh;;
 esac
 shift
 ;;
-U)
 shift
 case "$1" in
 *=) echo "$1" >> optdef.sh;;
 *=*)
  echo "$me: use '-D symbol=val', not '-U symbol=val'." >&2
  echo "$me: ignoring -U $1" >&2
  ;;
 *) echo "$1='undef'" >> optdef.sh;;
 esac
 shift
 ;;
-A)
    shift
    xxx=''
    yyy="$1"
    zzz=''
    uuu=undef
    case "$yyy" in
          *=*) zzz=`echo "$yyy"|sed 's!=.*!!'`
               case "$zzz" in
               *:*) zzz='' ;;
               *)   xxx=append

               zzz=' '`echo "$yyy"|sed 's!^[^=]*=!!'`
                    yyy=`echo "$yyy"|sed 's!=.*!!'` ;;
               esac
               ;;
          esac
          case "$xxx" in
          '')  case "$yyy" in
               *:*) xxx=`echo "$yyy"|sed 's!:.*!!'`
                    yyy=`echo "$yyy"|sed 's!^[^:]*:!!'`
                    zzz=`echo "$yyy"|sed 's!^[^=]*=!!'`
                    yyy=`echo "$yyy"|sed 's!=.*!!'` ;;
               *)   xxx=`echo "$yyy"|sed 's!:.*!!'`
                    yyy=`echo "$yyy"|sed 's!^[^:]*:!!'` ;;
```

```
            esac
            ;;
          esac
    case "$xxx" in
    append)
  echo "$yyy=\"\${$yyy}$zzz\"" >> posthint.sh ;;
    clear)
  echo "$yyy=""   >> posthint.sh ;;
    define)
        case "$zzz" in
  ") zzz=define ;;
  esac
  echo "$yyy='$zzz'"  >> posthint.sh ;;
    eval)
  echo "eval \"$yyy=$zzz\"" >> posthint.sh ;;
    prepend)
  echo "$yyy=\"$zzz\${$yyy}\"" >> posthint.sh ;;
    undef)

      case "$zzz" in
  ") zzz="$uuu" ;;
  esac
  echo "$yyy=$zzz"  >> posthint.sh ;;
          *)  echo "$me: unknown -A command '$xxx', ignoring -A $1" >&2 ;;
    esac
    shift
    ;;
 -V) echo "$me generated by metaconfig <VERSION> PL<PATCHLEVEL>." >&2
    exit 0;;
 --) break;;
 -*) echo "$me: unknown option $1" >&2; shift; error=true;;
 *) break;;
 esac
done

case "$error" in
true)
 cat >&2 <<EOM
Usage: $me [-dehrsEKOSV] [-f config.sh] [-D symbol] [-D symbol=value]
               [-U symbol] [-U symbol=] [-A command:symbol...]
 -d : use defaults for all answers.
 -e : go on without questioning past the production of config.sh.
 -f : specify an alternate default configuration file.
 -h : print this help message and exit (with an error status).
 -r : reuse C symbols value if possible (skips costly nm extraction).
 -s : silent mode, only echoes questions and essential information.
 -D : define symbol to have some value:
       -D symbol               symbol gets the
```

```
 value 'define'
        -D symbol='some value'   symbol is set to 'some value'
      common used examples (see INSTALL for more info):
        -Duse64bitint            use 64bit integers
        -Duse64bitall            use 64bit integers and pointers
        -Dusethreads             use thread support
        -Dinc_version_list=none  do not include older perl trees in @INC
        -DEBUGGING=none          DEBUGGING options
        -Dcc=gcc                 choose your compiler
        -Dprefix=/opt/perl5      choose your destination
 -E : stop at the end of questions, after having produced config.sh.
 -K : do not use unless you know what you are doing.
 -O : ignored for backward compatibility
 -S : perform variable substitutions on all .SH files (can mix with -f)
 -U : undefine symbol:
        -U symbol    symbol gets the value 'undef'
        -U symbol=   symbol gets completely empty
      e.g.:  -Uversiononly
 -A : manipulate symbol after the platform specific hints
 have been applied:
        -A append:symbol=value   append value to symbol
        -A symbol=value          like append:, but with a separating space
        -A define:symbol=value   define symbol to have value
        -A clear:symbol          define symbol to be ''
        -A define:symbol         define symbol to be 'define'
        -A eval:symbol=value     define symbol to be eval of value
        -A prepend:symbol=value  prepend value to symbol
        -A undef:symbol          define symbol to be 'undef'
        -A undef:symbol=         define symbol to be ''
      e.g.:  -A prepend:libswanted='cl pthread '
             -A ccflags=-DSOME_MACRO
 -V : print version number and exit (with a zero status).
EOM
 exit 1
 ;;
esac

?X:
?X: Unless they specified either -S or both -d and -e/E, make sure we're
?X: running interactively, i.e. attached to a terminal. Moved from Head.U to
?X: be able to handle batch configurations...
?X:
?X: We have to hardwire the Configure name and
 cannot use $me, since if they
?X: said 'sh <Configure', then $me is 'sh'...
?X:
: Sanity checks
case "$fastread$alldone" in
```

```
yescont|yesexit) ;;
*)
 case "$extractsh" in
 true) ;;
 *)
  if test ! -t 0; then
   echo "Say 'sh Configure', not 'sh <Configure'"
   exit 1
  fi
  ;;
 esac
 ;;
esac

?X: In silent mode, the standard output is closed. Questions are asked by
?X: outputing on file descriptor #4, which is the original stdout descriptor.
?X: This filters out all the "junk", since all the needed information is written
?X: on #4. Note that ksh will not let us redirect output if the file descriptor
?X: has not be defined yet, unlike sh, hence the following line...--RAM.
exec 4>&1
case "$silent" in
true) exec 1>/dev/null;;
esac

: run the defines and the undefines, if any, but leave the file out there...
touch optdef.sh
?X: -q is POSIX
?X: It does not work in SysV (solaris) or old BSD greps.
grep '\\' optdef.sh >/dev/null 2>&1
if test $? = 0; then
   echo "Configure does not support \\
 in -D arguments"
   exit 1
fi
. ./optdef.sh
: create the posthint manipulation script and leave the file out there...
?X: this file will be perused by Oldconfig.U
touch posthint.sh

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/Options.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libc.U,v $
?RCS: Revision 3.0.1.10  1997/02/28  15:56:48  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: added support for HPUX-10 nm output
?RCS:
?RCS: Revision 3.0.1.9  1995/07/25  14:11:56  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.8  1995/05/12  12:20:47  ram
?RCS: patch54: made sure only most recent version of shared lib is picked
?RCS: patch54: final "nm -p" check now uses xscan and xrun like everybody
?RCS: patch54: can now grok
 linux nm output with lead __IO (ADO)
?RCS: patch54: added support for linux ELF output, using 'W' for alias (ADO)
?RCS:
?RCS: Revision 3.0.1.7  1994/10/29  16:23:40  ram
?RCS: patch36: now looks for shared libraries before anything else (ADO)
?RCS: patch36: added new nm output format (ADO)
?RCS:
?RCS: Revision 3.0.1.6  1994/08/29  16:28:10  ram
?RCS: patch32: added I-type symbols for nm output parsing on Linux
?RCS:
?RCS: Revision 3.0.1.5  1994/06/20  07:03:24  ram
?RCS: patch30: checks are now presented by succession of if/elif
?RCS: patch30: uniformized checks for shared objects with new so symbol
?RCS:
?RCS: Revision 3.0.1.4  1994/05/06  15:06:33  ram
?RCS: patch23: added shared library knowledge (ADO and WED)
?RCS:
?RCS: Revision 3.0.1.3  1994/01/24  14:12:17  ram
?RCS: patch16: can now export nm_extract as an internal-use only variable
?RCS:
?RCS: Revision 3.0.1.2  1993/09/13  16:09:03  ram
?RCS: patch10: added special handling for Apollo systems (WAD)
?RCS:
?RCS: Revision 3.0.1.1
  1993/08/27  14:40:03  ram
?RCS: patch7: added entry for /usr/shlib/libc.so (OSF/1 machines)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:libc libnames +nm_extract: echo n c rm test grep Getfile Myread \
 Oldconfig Loc sed libs incpath libpth ar runnm nm nm_opt nm_so_opt \
 contains xlibpth so osname trnl tr sort uniq _o _a
?MAKE: -pick add $@ %<
?S:libc:
?S: This variable contains the location of the C library.
?S:.
?S:libnames:
?S: The constructed list of library names.  Normally empty, but hint files
?S: may set this for later perusal by Configure.
?S:.
?S:nm_extract:
?S: This variable holds the name of the extraction command used to process
?S: the output of nm and yield the list of defined symbols. It is used
?S: internally by Configure.
?S:.
?T:thislib try libnames xxx xscan xrun thisname com tans file
?F:!libnames !libc.tmp !tmp.imp
?LINT:change nm_opt runnm
?INIT:libnames=''
: Figure out where the libc is located
case
 "$runnm" in
true)
?X: indentation is wrong on purpose--RAM
: get list of predefined functions in a handy place
echo " "
case "$libc" in
'') libc=unknown
 case "$libs" in
 *-lc_s*) libc=`./loc libc_s$_a $libc $libpth`
 esac
 ;;
esac
case "$libs" in
'') ;;
*)  for thislib in $libs; do
 case "$thislib" in
 -lc|-lc_s)
  : Handle C library specially below.
  ;;
 -l*)
  thislib=`echo $thislib | $sed -e 's/^-l//'`
  if try=`./loc lib$thislib.$so.'*' X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib.$so X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib$_a X $libpth`; $test -f "$try"; then
```

```
  :
  elif try=`./loc $thislib$_a X $libpth`; $test -f "$try"; then
  :
  elif try=`./loc lib$thislib X $libpth`; $test -f "$try"; then
  :
  elif try=`./loc $thislib X $libpth`; $test -f "$try"; then
  :
  elif try=`./loc Slib$thislib$_a X $xlibpth`; $test -f "$try"; then
  :
  else
   try=''
  fi
  libnames="$libnames $try"
  ;;
 *) libnames="$libnames $thislib"
 ;;
 esac
 done
 ;;
esac
?X:
?X: Some systems (e.g. DG/UX) use "environmental" links, which make the test
?X: -f fail. Ditto for symbolic links. So in order to reliably check the
?X: existence of a file, we use test -r. It will still fail with DG/UX links
?X: though, but at least it will detect symbolic links. At some strategic
?X: points, we make use of (test -h), using a sub-shell in case builtin test
?X: does not implement the -h check for symbolic links. This makes it
?X: possible to preset libc in a hint file for instance and have it show up
?X: as-is in the question.
?X:
xxx=normal
case "$libc" in
unknown)
?X:
?X: The sed below transforms .so.9 .so.12 into something like .so.0009 .so.0012,
?X: then sorts on it to allow keeping .so.12 instead of .so.9 as the latest
?X: up-to-date library. The initial filename (before sed munging, saved in hold
?X: space via 'h') is appended via 'G' before sorting, then the leading munged
?X: part is removed after sorting. Nice efficient work
 from Tye McQueen.
?X: The initial blurfl is here to prevent the trailing pipe from producing an
?X: empty string, causing Configure to output all its set variables!
?X:
 set /lib/libc.$so
 for xxx in $libpth; do
  $test -r $1 || set $xxx/libc.$so
  : The messy sed command sorts on library version numbers.
  $test -r $1 || \
```

```
  set `echo blurfl; echo $xxx/libc.$so.[0-9]* | \
  tr ' ' $trnl | egrep -v '\.[A-Za-z]*$' | $sed -e '
   h
   s/[0-9][0-9]*/0000&/g
   s/0*\([0-9][0-9][0-9][0-9][0-9]\)/\1/g
   G
   s/\n/ /' | \
   $sort | $sed -e 's/^.* //'`
  eval set \$$#
 done
 $test -r $1 || set /usr/ccs/lib/libc.$so
 $test -r $1 || set /lib/libsys_s$_a
 ;;
*)
?X: ensure the test below for the (shared) C library will fail
 set blurfl
 ;;
esac
if $test -r "$1"; then
 echo "Your (shared) C library seems to be in $1."
 libc="$1"
elif $test -r /lib/libc && $test -r /lib/clib; then
?X:
?X: Apollo has its C library in /lib/clib AND /lib/libc
?X: not to mention its math library in /lib/syslib...
?X:
 echo
 "Your C library seems to be in both /lib/clib and /lib/libc."
 xxx=apollo
 libc='/lib/clib /lib/libc'
 if $test -r /lib/syslib; then
  echo "(Your math library is in /lib/syslib.)"
?X: Put syslib in libc -- not quite right, but won't hurt
  libc="$libc /lib/syslib"
 fi
elif $test -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
 echo "Your C library seems to be in $libc, as you said before."
?X: For mips, and...
elif $test -r $incpath/usr/lib/libc$_a; then
 libc=$incpath/usr/lib/libc$_a;
 echo "Your C library seems to be in $libc.  That's fine."
elif $test -r /lib/libc$_a; then
 libc=/lib/libc$_a;
 echo "Your C library seems to be in $libc.  You're normal."
else
 if tans=`./loc libc$_a blurfl/dyick $libpth`; $test -r "$tans"; then
  :
 elif tans=`./loc libc blurfl/dyick $libpth`; $test -r "$tans"; then
```

```
  libnames="$libnames "`./loc clib blurfl/dyick $libpth`
 elif tans=`./loc clib blurfl/dyick $libpth`; $test -r "$tans"; then
  :
 elif tans=`./loc Slibc$_a blurfl/dyick
 $xlibpth`; $test -r "$tans"; then
  :
 elif tans=`./loc Mlibc$_a blurfl/dyick $xlibpth`; $test -r "$tans"; then
  :
 else
  tans=`./loc Llibc$_a blurfl/dyick $xlibpth`
 fi
 if $test -r "$tans"; then
  echo "Your C library seems to be in $tans, of all places."
  libc=$tans
 else
  libc='blurfl'
 fi
fi
if $test $xxx = apollo -o -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
 dflt="$libc"
 cat <<EOM

If the guess above is wrong (which it might be if you're using a strange
compiler, or your machine supports multiple models), you can override it here.

EOM
else
 dflt="
 echo $libpth | $tr ' ' $trnl | $sort | $uniq > libpath
 cat >&4 <<EOM
I can't seem to find your C library.  I've looked in the following places:

EOM
 $sed 's/^/ /' libpath
 cat <<EOM

None of these seems to contain your C library. I need to get its name...

EOM
fi
fn=f
rp='Where is your C library?'
. ./getfile
libc="$ans"

echo " "
echo $libc $libnames | $tr ' ' $trnl | $sort | $uniq > libnames
set X `cat libnames`
```

```
shift
xxx=files
case
 $# in 1) xxx=file; esac
echo "Extracting names from the following $xxx for later perusal:" >&4
echo " "
$sed 's/^/ /' libnames >&4
echo " "
$echo $n "This may take a while...$c" >&4

?X:
?X: Linux may need the special Dynamic option to nm for shared libraries.
?X: In general, this is stored in the nm_so_opt variable.
?X: Unfortunately, that option may be fatal on non-shared libraries.
?X:
for file in $*; do
 case $file in
 *$so*) $nm $nm_so_opt $nm_opt $file 2>/dev/null;;
 *) $nm $nm_opt $file 2>/dev/null;;
 esac
done >libc.tmp

$echo $n ".$c"
?X:
?X: To accelerate processing, we look at the correct 'sed' command
?X: by using a small subset of libc.tmp, i.e. fprintf function.
?X: When we know which sed command to use, do the name extraction
?X:
$grep fprintf libc.tmp > libc.ptf
?X:
?X: In order to enhance readability and save some space, we define
?X: some variables that will be "eval"ed.
?X:
xscan='eval "<libc.ptf $com >libc.list"; $echo $n ".$c" >&4'
xrun='eval
 "<libc.tmp $com >libc.list"; echo "done." >&4'
?X: BSD-like output, I and W types added for Linux
?X: Some versions of Linux include a leading __IO in the symbol name.
?X: HPUX10 reportedly has trailing spaces, though I'm surprised it has
?X: BSD-like output.  (AD).
xxx='[ADTSIW]'
if com="$sed -n -e 's/__IO//' -e 's/^.* $xxx  *_[_.]*//p' -e 's/^.* $xxx  *//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: SYSV-like output
elif com="$sed -n -e 's/^__*//' -e 's/^\([a-zA-Z_0-9$]*\).*xtern.*/\1/p'";\
 eval $xscan;\
```

```
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e '/|UNDEF/d' -e '/FUNC..GL/s/^.*|__*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.* D __*//p' -e 's/^.* D //p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^_//' -e 's/^\([a-zA-Z_0-9]*\).*xtern.*text.*/\1/p'";\
 eval
 $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$grep '|' | $sed -n -e '/|COMMON/d' -e '/|DATA/d' \
    -e '/ file/d' -e 's/^\([^  ]*\).*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|//p' -e 's/^.*|FUNC |WEAK .*|//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: mips nm output (sysV)
elif com="$sed -n -e 's/^__//' -e '/|Undef/d' -e '/|Proc/s/ .*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|Proc .*|Text *| *//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e '/Def. Text/s/.* \([^ ]*\)\$/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null
 2>&1; then
  eval $xrun
?X: OS/2 nm output
elif com="$sed -n -e 's/^[-0-9a-f ]*_\(.*\)=.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/.*\.text n\ \ \ \.//p'";\
```

```
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: AIX nm output
elif com="sed -n -e 's/^__.*//' -e 's/[       ]*D[    ]*[0-9]*.*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
else
 $nm -p $* 2>/dev/null >libc.tmp
 $grep fprintf libc.tmp > libc.ptf
 if com="$sed -n -e 's/^.* [ADTSIW]  *_[_.]*//p' -e 's/^.* [ADTSIW] //p'";\
  eval $xscan; $contains '^fprintf$' libc.list >/dev/null 2>&1
 then
  nm_opt='-p'
  eval $xrun
 else
  echo " "
  echo "$nm didn't seem to work right. Trying $ar instead..." >&4
  com="
  if $ar t $libc > libc.tmp && \
   $contains '^fprintf$' libc.tmp >/dev/null 2>&1
  then
   for thisname in $libnames $libc; do
    $ar t $thisname >>libc.tmp
   done
   $sed
 -e "s/\\$_o\$//" < libc.tmp > libc.list
   echo "Ok." >&4
  elif test "X$osname" = "Xos2" && $ar tv $libc > libc.tmp; then
?X: Repeat libc to extract forwarders to DLL entries too
   for thisname in $libnames $libc; do
    $ar tv $thisname >>libc.tmp
?X: Revision 50 of EMX has bug in ar: it will not extract forwarders
?X: to DLL entries.  Use emximp which will extract exactly them.
    emximp -o tmp.imp $thisname \
        2>/dev/null && \
        $sed -e 's/^\([_a-zA-Z0-9]*\) .*$/\1/p' \
        < tmp.imp >>libc.tmp
    $rm -f tmp.imp
   done
   $sed -e "s/\\$_o\$//" -e 's/^ \+//' < libc.tmp > libc.list
   echo "Ok." >&4
  else
   echo "$ar didn't seem to work right." >&4
   echo "Maybe this is a Cray...trying bld instead..." >&4
   if
    bld t $libc | \
```

```
    $sed -e 's/.*\///' -e "s/\\$_o:.*\$//" > libc.list &&
   $test -s libc.list
  then
   for thisname in $libnames; do
    bld t $libnames | \
    $sed -e 's/.*\///' -e "s/\\$_o:.*\$//" >>libc.list
    $ar t $thisname >>libc.tmp
   done
   echo
 "Ok." >&4
  else
   echo "That didn't work either." >&4
   echo "No problem, I'll be compiling test programs then..." >&4
   runnm=false
  fi
 fi
fi
fi
nm_extract="$com"
if $test -f /lib/syscalls.exp; then
 echo " "
 echo "Also extracting names from /lib/syscalls.exp for good ole AIX..." >&4
 $sed -n 's/^\([^  ]*\)[  ]*syscall[0-9]*[  ]*$/\1/p' \
  /lib/syscalls.exp >>libc.list
fi
?X: remember, indentation is wrong on purpose--RAM
;;
esac
$rm -f libnames libpath
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/libc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_rint: Inlibc
?MAKE: -pick add $@ %<
?S:d_rint:
?S: This variable conditionally defines the HAS_RINT symbol, which
?S: indicates to the C program that the rint() routine is available.
?S:.
?C:HAS_RINT:
?C: This symbol, if defined, indicates that the rint routine is
?C: available to return the nearest integral value to x as double
?C: using the current rounding mode.
```

```
?C:.
?H:#$d_rint HAS_RINT  /**/
?H:.
?LINT:set d_rint
: see if rint exists
set rint d_rint
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_rint.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2006-2007, H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_snprintf d_vsnprintf : Inlibc Compile cat run rm_try
?MAKE: -pick add $@ %<
?S:d_snprintf:
?S: This variable conditionally defines the HAS_SNPRINTF symbol, which
?S: indicates to the C program that the snprintf () library function
?S: is available.
?S:.
?S:d_vsnprintf:
?S: This variable conditionally defines the HAS_VSNPRINTF symbol, which
?S: indicates to the C program that the vsnprintf () library function
?S: is available.
?S:.
?C:HAS_SNPRINTF:
?C: This symbol, if defined, indicates that the snprintf () library
?C: function
 is available for use.
?C:.
?C:HAS_VSNPRINTF:
?C: This symbol, if defined, indicates that the vsnprintf () library
?C: function is available for use.
?C:.
?H:#$d_snprintf HAS_SNPRINTF /**/
?H:#$d_vsnprintf HAS_VSNPRINTF /**/
?H:.
?F:!try
: see if snprintf exists
set snprintf d_snprintf
```

```
eval $inlibc

: see if vsnprintf exists
set vsnprintf d_vsnprintf
eval $inlibc

case "$d_snprintf-$d_vsnprintf" in
"$define-$define")
  $cat <<EOM
Checking whether your snprintf() and vsnprintf() work okay...
EOM
  $cat >try.c <<'EOCP'
/* v?snprintf testing logic courtesy of Russ Allbery.
* According to C99:
* - if the buffer is too short it still must be \0-terminated
* - if the buffer is too short the potentially required length
*   must be returned and not -1
* - if the buffer is NULL the potentially required length
*   must be returned and not -1 or core dump
*/
#include <stdio.h>
#include <stdarg.h>

char buf[2];

int test (char *format, ...)
{
  va_list args;
  int count;

  va_start
 (args, format);
  count = vsnprintf (buf, sizeof buf, format, args);
  va_end (args);
  return count;
}

int main ()
{
  return ((test ("%s", "abcd") == 4 && buf[0] == 'a' && buf[1] == '\0'
          && snprintf (NULL, 0, "%s", "abcd") == 4) ? 0 : 1);
}
EOCP
  set try
  if eval $compile; then
 `$run ./try`
 case "$?" in
 0) echo "Your snprintf() and vsnprintf() seem to be working okay." ;;
```

```
 *) cat <<EOM >&4
Your snprintf() and snprintf() don't seem to be working okay.
EOM
    d_snprintf="$undef"
    d_vsnprintf="$undef"
    ;;
 esac
   else
 echo "(I can't seem to compile the test program--assuming they don't)"
 d_snprintf="$undef"
 d_vsnprintf="$undef"
   fi
   $rm_try
   ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_snprintf.U
No license file was found, but licenses were detected in source scan.

```
;###########################################################################
;# Jmake rules for building libraries, programs, scripts, and data files
;# $Id: Jmake.rules 18 2006-12-27 10:35:09Z rmanfredi $

/*
*     MACHINE-INDEPENDENT RULES -- DO NOT MODIFY
*/

/* $Id: Jmake.rules 18 2006-12-27 10:35:09Z rmanfredi $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* $Log: Jmake.rules,v $
* Revision 3.0.1.7  2004/08/22 08:28:58  ram
* patch71: random cleanup
*
* Revision 3.0.1.6  1997/02/28  14:56:01  ram
* patch61: now handles USRINC for dependencies
* patch61: smarter about dependencies
 computation
*
```

```
* Revision 3.0.1.5  1995/09/25  09:07:19  ram
* patch59: smarter sed command to strip /usr/include dependencies
*
* Revision 3.0.1.4  1995/07/25  13:33:59  ram
* patch56: install of script man pages can now cope with missing files
* patch56: the clobber target now removes the .config directory as well
*
* Revision 3.0.1.3  1995/03/21  08:35:28  ram
* patch52: suppressed extra argument to NormalProgramTarget call
*
* Revision 3.0.1.2  1995/01/11  14:49:55  ram
* patch45: new macros ShellScriptTargetExt and SimpleShellScriptTargetExt
* patch45: directory installation is now made via INSTALLDIR (Configure)
*
* Revision 3.0.1.1  1994/10/29  15:46:30  ram
* patch36: added RemoteDependency rule
*
* Revision 3.0  1993/08/18  12:04:14  ram
* Baseline for dist 3.0 netwide release.
*
*/

/* Please, edit only with tabstops = 4 (":set ts=4" under vi) */

/*
* AddedByConfigure:
* Gives name of the files generated by Configure that can safely
* be removed
 when a "make clobber" is issued. Not that it is useless
* to name config.h or config.sh because these are already taken care
* of by jmake.
*/
#define AddedByConfigure(files) @!\
local_clobber::   @@\
 $(RM) files

/*
* AddSuffix:
* Adds a sufix to the .SUFFIXES: list.
*/
#define AddSuffix(ext) @!\
|suffix ext


/*
* AllTarget:
* Generate rules to build necessary things during make all.
*/
```

```
#define AllTarget(depends) @!\
all:: depends    @!\
       @!\
local_realclean::   @@\
 $(RM) depends

/*
* RemoveTargetProgram:
* This is used in some other macros in order to remove the target
* before starting its building (saves disk space).  There should be
* no '@!' at the end of the '#define' line, because this macro is
* used *inside* building rules.
*/
#define RemoveTargetProgram(program) \
 $(RM) program @@\
 if test -f program^^^$(_EXE); then \ @@\
  $(MV) program^^^$(_EXE) program^^~^^^$(_EXE); fi

/*
* NormalProgramTarget:
* Generate rules to compile and link the
 indicated program; since
* it does not use any default object files, it may be used for
* multiple programs in the same Jmakefile.
*/
#define NormalProgramTarget(program,sources,objects) @!\
++OBJECTS objects @!\
++SOURCES sources @!\
NormalObjectRule()    @!\
AllTarget(program)    @!\
       @!\
program: objects    @@\
 RemoveTargetProgram($@)  @@\
 $(CC) -o $@ objects $(JLDFLAGS) $(LIBS) @!\


/*
* SingleProgramTarget:
* Obsolete version of NormalProgramTarget that doesn't have
* deplibs.
*/
#define SingleProgramTarget(program,objects,libs)  \
NormalProgramTarget(program,objects,libs)

/*
* SimpleProgramTarget:
* Generate rules for compiling and linking programs that only have
* one C source file.  It should only be used in Jmakefiles that
```

```
* describe a single program.
*/
#define SimpleProgramTarget(program) @!\
NormalProgramTarget(program,program.c,program.o)



/*
* ComplexProgramTarget:
* Generate rules for compiling and linking the program specified by
* $(OBJS) and
 $(SRCS), installing the program and its man page, and
* generating dependencies.  It should only be used in Jmakefiles
* that describe a single program.
*/
#define ComplexProgramTarget(program) @!\
++OBJECTS $(OBJS) @!\
++SOURCES $(SRCS) @!\
NormalObjectRule()     @!\
AllTarget(program)     @!\
        @!\
program: $(OBJS)     @@\
 RemoveTargetProgram($@)   @@\
 $(CC) -o $@ $(OBJS) $(JLDFLAGS) $(LIBS) @!\
        @!\
InstallProgram(program,$(BINDIR)) @!\
InstallManPage(program,$(MANSRC)) @!\
DependTarget()      @!\
LintTarget()


/*
* ComplexProgramTarget_1:
* Generate rules for compiling and linking the program specified by
* $(OBJS1) and $(SRCS1), installing the program and its man page,
* and generating dependencies for it and any programs described by
* $(SRCS2) and $(SRCS3).  It should be used to build the primary
* program in Jmakefiles that describe multiple programs.
*/
#define ComplexProgramTarget_1(program) @!\
++OBJECTS $(OBJS1) @!\
++SOURCES $(SRCS1) @!\
NormalObjectRule()     @!\
AllTarget(program)     @!\
        @!\
program:
 $(OBJS1)     @@\
 RemoveTargetProgram($@)   @@\
```

```
 $(CC) -o $@ $(OBJS1) $(JLDFLAGS) $(LIBS) @!\
        @!\
InstallProgram(program,$(BINDIR)) @!\
InstallManPage(program,$(MANSRC)) @!\
        @!\
DependTarget()      @!\
LintTarget()


/*
* ComplexProgramTarget_2:
* Generate rules for compiling and linking the program specified by
* $(OBJS2) and $(SRCS2) and installing the program and man page.
* It should be used to build the second program in Jmakefiles
* describing more than one program.
*/
#define ComplexProgramTarget_2(program) @!\
++OBJECTS $(OBJS2) @!\
++SOURCES $(SRCS2) @!\
NormalObjectRule()     @!\
AllTarget(program)     @!\
        @!\
program: $(OBJS2)     @@\
 RemoveTargetProgram($@)   @@\
 $(CC) -o $@ $(OBJS2) $(JLDFLAGS) $(LIBS) @!\
        @!\
InstallProgram(program,$(BINDIR)) @!\
InstallManPage(program,$(MANSRC))


/*
* ComplexProgramTarget_3:
* Generate rules for compiling and linking the
 program specified by
* $(OBJS3) and $(SRCS3) and installing the program and man page.  It
* should be used to build the third program in Jmakefiles describing
* more than one program.
*/
#define ComplexProgramTarget_3(program) @!\
++OBJECTS $(OBJS3) @!\
++SOURCES $(SRCS3) @!\
NormalObjectRule()     @!\
AllTarget(program)     @!\
        @!\
program: $(OBJS3)     @@\
 RemoveTargetProgram($@)   @@\
 $(CC) -o $@ $(OBJS3) $(JLDFLAGS) $(LIBS) @!\
        @!\
```

```
InstallProgram(program,$(BINDIR)) @!\
InstallManPage(program,$(MANSRC))


/*
* ComplexShellManualTarget:
* Builds manual pages that are to be extracted from .SH files into
* .$manext files.
*/
#define ComplexShellManualTarget(manpages) @!\
++MANPAGE manpages @!\
|once _ShellManualRule_  @!\
|rule:.SH.$manext:   @!\
|rule: /bin/sh $<   @!\
|rule:      @!\
-once      @!\
AddSuffix(.SH)    @!\
AddSuffix(.$manext)   @!\
AllTarget(manpages)   @!\
      @!\
local_install.man::   @@\
 _MakeInstallDirIgnore($(MANSRC)) \     @@\
 for
 file in manpages; do \  @@\
  (set -x; $(INSTALL) -c -m 444 $$file \ @@\
   $(INSTALL_PREFIX)$(MANSRC)) || exit 1; \ @@\
 done     @!\
      @!\
local_deinstall.man::  @@\
 @case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
 for file in manpages; do \  @@\
  (set -x; $(RM) $(INSTALL_PREFIX)$(MANSRC)/$$file); \ @@\
 done


/*
* Initialize:
* Puts the line symbol = value in the initialization section of
* Makefile.SH (the one that is subject to parameter substitutions).
*/
#define Initialize(symbol,value) @!\
+symbol = value


/*
* InstallLibrary:
* Generate rules to install the indicated library.
*/
```

```
#define InstallLibrary(libname,dest) @!\
local_install:: lib^^libname.a  @@\
 _MakeInstallDirIgnore(dest) \ @@\
 $(INSTALL) -c -m 644 lib^^libname.a $(INSTALL_PREFIX)^^^dest  @@\
 $(RANLIB) dest/lib^^libname.a @@\
 chmod 444 dest/lib^^libnane.a @!\
        @!\
local_deinstall::     @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/lib^^libname.a


/*
* InstallSharedLibrary:
* Generate rules to install
 the shared library.
*/
#define InstallSharedLibrary(libname,rev,dest) @!\
local_install:: lib^^libname.so.rev  @@\
 _MakeInstallDirIgnore(dest) \  @@\
 $(INSTALL) -c -m 444 lib^^libname.so.rev $(INSTALL_PREFIX)^^^dest @!\
         @!\
local_deinstall::      @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/lib^^libname.so.rev


/*
* InstallSharedLibraryData:
* Generate rules to install the shared library data
*/
#define InstallSharedLibraryData(libname,rev,dest) @!\
local_install:: lib^^libname.sa.rev  @@\
 _MakeInstallDirIgnore(dest) \  @@\
 $(INSTALL) -c -m 444 lib^^libname.sa.rev $(INSTALL_PREFIX)^^^dest @!\
        @!\
local_deinstall::     @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/lib^^libname.sa.rev


/*
* InstallLibraryAlias:
* Generate rules to create a link from one library name to another
* for the purposes of aliasing.
*/
#define InstallLibraryAlias(libname,alias,dest) @!\
local_install:: lib^^libname.a @@\
 $(RM) lib^^alias.a  @@\
 -(cd dest; $(LN) lib^^libname.a lib^^alias.a)
```

```
 @!\
      @!\
local_deinstall::   @@\
 $(RM) dest/lib^^alias.a


/*
* InstallLintLibrary:
* Generate rules to install the indicated lint library.
*/
#define InstallLintLibrary(libname,dest) @!\
install.ln:: llib-l^^libname.ln   @@\
 _MakeInstallDirIgnore(dest) \  @@\
 $(INSTALL) -c -m 444 llib-l^^libname.ln $(INSTALL_PREFIX)^^^dest @!\
      @!\
deinstall.ln::    @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/llib-l^^libname.ln


/*
* InstallManPageLong:
* Generate rules to install the indicated manual page, giving it an
* alternate name.  This is used for installing man pages whose base
* name without the .man suffix would normally be longer than 8
* characters (the limit for using source code control systems on
* files systems with short file names).
*/
#define InstallManPageLong(file,destdir,dest) @!\
local_install.man:: file.man   @@\
 _MakeInstallDirIgnore(destdir) \ @@\
 $(INSTALL) -c -m 444 file.man $(INSTALL_PREFIX)^^^destdir/dest.$(L) @!\
         @!\
local_deinstall.man::     @@\
 $(RM)
 $(INSTALL_PREFIX)^^^destdir/dest.$(L)  @!\


/*
* InstallManPage:
* Generate rules to install the indicated manual page.
*/
#define InstallManPage(file,dest) @!\
InstallManPageLong(file,dest,file)


/*
* InstallNonExec:
* Generate rules to install a data file using any special
```

```
*  install flags.
*/
#define InstallNonExec(file,dest) @!\
local_install:: file    @@\
 _MakeInstallDirIgnore(dest) \ @@\
 $(INSTALL) -c -m 444 file $(INSTALL_PREFIX)^^^dest @!\
        @!\
local_deinstall::     @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/file


/*
* InstallProgramWithFlags:
* Generate rules to install an executable program using given
* install flags.
*/
#define InstallProgramWithFlags(program,dest,flags) @!\
local_install:: program    @@\
 _MakeInstallDirIgnore(dest) \ @@\
 $(INSTALL) -c -s -m 555 flags program^^^$(_EXE) $(INSTALL_PREFIX)^^^dest @!\
        @!\
local_deinstall::     @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/program^^^$(_EXE)


/*
* InstallProgramNoStripWithFlags:
 * Generate rules to install an executable program using given
* install flags.
*/
#define InstallProgramNoStripWithFlags(program,dest,flags) @!\
local_install:: program    @@\
 _MakeInstallDirIgnore(dest) \ @@\
 $(INSTALL) -c -m 555 flags program^^^$(_EXE) $(INSTALL_PREFIX)^^^dest @!\
        @!\
local_deinstall::     @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/program^^^$(_EXE)


/*
* InstallProgram:
* Generate rules to install an executable program using any special
* install flags set in $(INSTALLFLAGS).
*/
#define InstallProgram(program,dest) @!\
InstallProgramWithFlags(program,dest,^^)
```

```
/*
* InstallProgramNoStrip:
* Generate rules to install an executable program using any special
* install flags set in $(INSTALLFLAGS), but without stripping the
* executable from debugging symbols.
*/
#define InstallProgramNoStrip(program,dest) @!\
InstallProgramNoStripWithFlags(program,dest,^^)


/*
* InstallScriptWithFlags:
* Generate rules to install an executable script using given
* install
 flags.
*/
#define InstallScriptWithFlags(script,dest,flags) @!\
local_install:: script    @@\
 _MakeInstallDirIgnore(dest) \ @@\
 $(INSTALL) -c -m 555 flags script $(INSTALL_PREFIX)^^^dest @!\
        @!\
local_deinstall::     @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/script


/*
* InstallScript:
* Generate rules to install an executable script using any special
* install flags set in $(INSTALLFLAGS).
*/
#define InstallScript(script,dest) @!\
InstallScriptWithFlags(script,dest,^^)


/*
* InstallScripts:
* Generate rules to install all the scripts listed in the generated
*  $(SCRIPTS) and $(LSCRIPTS) macros.
*/
#define InstallScripts() @!\
|once _InstallScripts_  @!\
local_install:: $(SCRIPTS) $(LSCRIPTS)    @@\
 _MakeInstallDirIgnore($(SCRIPTDIR)) \  @@\
 for file in $(SCRIPTS) $(LSCRIPTS); do \ @@\
  (set -x; \ @@\
  $(INSTALL) -c -m 555 $$file $(INSTALL_PREFIX)$(SCRIPTDIR)) || \ @@\
  exit 1; \ @@\
 done     @!\
```

```
      @!\
local_deinstall::   @@\
 @for file in $(SCRIPTS)
 $(LSCRIPTS); do \ @@\
  case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
  (set -x; $(RM) $(INSTALL_PREFIX)$(SCRIPTDIR)/$$file); \ @@\
 done     @!\
-once

/*
* InstallManScripts:
* Generate rule to install/deinstall manual pages for scripts listed
* in the automatically generated $(SCRIPTS) macro.
*/
#define InstallManScripts() @!\
|once _InstallManScripts_ @!\
?NOMAN:|skip    @!\
local_install.man::   @@\
 _MakeInstallDirIgnore($(MANSRC)) \  @@\
 for file in $(SCRIPTS); do \   @@\
  if test -f $$file.man; then \  @@\
   (set -x; \      @@\
   $(INSTALL) -c -m 444 $$file.man \ @@\
    $(INSTALL_PREFIX)$(MANSRC)/$$file.$(L)) || \ @@\
    exit 1; \ @@\
  fi; \    @@\
 done     @!\
      @!\
local_deinstall.man::  @@\
 case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
 for file in $(SCRIPTS); do \ @@\
  (set -x; $(RM) $(INSTALL_PREFIX)$(MANSRC)/$$file.$(L)); \ @@\
 done     @!\
      @!\
-skip      @!\
-once



/*
* LinkFileList:
* Link a list of list of files from one place to another
 */
#define LinkFileList(step,list,dir,sub) @!\
step:: list       @@\
 @case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
 echo " cd" dir; cd dir; for i in list; do (set -x; $(LN) sub/$$i .); done
```

```
/*
* InstallMultipleDestFlags:
* Generate rules to install multiple files at once during a particular
* step in the build using a specific set of install flags.
*/
#define InstallMultipleDestFlags(step,list,dest,flags) @!\
step:: list       @@\
 _MakeInstallDirIgnore(dest) \ @@\
 for i in list; do \    @@\
  (set -x; $(INSTALL) -c flags \ @@\
   $$i $(INSTALL_PREFIX)^^^dest) || exit 1;\ @@\
 done

/*
* DeinstallMultipleDest:
* Generate rules to deinstall multiple files at once during a particular
* step in the build.
*/
#define DeinstallMultipleDest(step,list,dest) @!\
step::        @@\
 @case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
 for i in list; do \    @@\
  (set -x; $(RM) $(INSTALL_PREFIX)^^^dest/$$i); \ @@\
 done

/*
* InstallMultiple:
* Generate rules to install multiple
 files at once during the install
* step of the build using any install flags set in $(INSTALLFLAGS)
* and deinstall them.
*/
#define InstallMultiple(list,dest) @!\
InstallMultipleDestFlags(local_install,list,dest,$(INSTALLFLAGS)) @!\
DeinstallMultipleDest(local_deinstall,list,dest)


/*
* InstallMultipleFlags:
* Generate rules to install multiple files at once during the
* install step of the build using the given install flags.
*/
#define InstallMultipleFlags(list,dest,flags) @!\
InstallMultipleDestFlags(local_install,list,dest,flags) @!\
DeinstallMultipleDest(local_deinstall,list,dest)
```

```
/*
* InstallMultipleMan:
* Generate rules to install a variety of manual pages
* during the install.man step of the build.
*/
#define InstallMultipleMan(list,dest) @!\
InstallMultipleDestFlags(local_install.man,list,dest,$(INSTALLFLAGS)) @!\
DeinstallMultipleDest(local_deinstall.man,list,dest)


/*
* DependDependency:
* Generate rules to build the makedepend program.
*/
#define DependDependency()
    @!\
depend:: TOPDIR/mkdep    @!\
        @!\
TOPDIR/mkdep:      @!\
?TOP: @echo "You have to run Configure first."; exit 1 @!\
%TOP: @echo "You have to run Configure in $(TOP) first."; exit 1


/*
* DependTarget:
* Generate rules to compute dependencies for all files listed
* in $(SOURCES) (automatically generated macro).
*/
#define DependTarget()    @!\
+USRINC = $usrinc @!\
|once _DependTarget_    @!\
DependDependency()     @!\
        @!\
depend::       @@\
 ($(SED) '/^# DO NOT DELETE/q' Makefile && \ @@\
 $(MKDEP) $(SOURCES) | \   @@\
 $(SED) -e 's:/usr/lib[^ ]*::g; s:$(USRINC)[^ ]*::g; ' \ @@\
  -e '/: / b print' -e '$$ b print' -e 'H; d; n; : print' \ @@\
  -e 'x; s/\$$//; s/\\n//g; s/ ^^ */ /g; s/ :/:/;' -e '/: *$$/d' \ @@\
 ) > Makefile.new    @@\
 cp Makefile Makefile.bak  @@\
 cp Makefile.new Makefile  @@\
 $(RM) Makefile.new    @!\
        @!\
-once


/*
```

```
* CleanTarget:
* Generate rules to remove any garbage files.
*/
#define CleanTarget()    @!\
?SUBDIRS:clean:
 sub_clean local_clean    @!\
%SUBDIRS:clean: local_clean       @!\
?SUBDIRS:realclean: sub_realclean local_realclean @!\
%SUBDIRS:realclean: local_realclean     @!\
?SUBDIRS:clobber: sub_clobber local_clobber   @!\
%SUBDIRS:clobber: local_clobber      @!\
        @!\
local_clean::       @@\
 if test -f core; then $(RM) core; fi @@\
 $(RM) *~ *.o     @!\
        @!\
local_realclean:: local_clean  @!\
?TOP: $(RM) -r UU     @!\
        @!\
local_clobber:: local_realclean  @!\
%TOP: $(RM) Makefile config.sh  @!\
?TOP: $(RM) config.sh config.h  @!\
?TOP: $(RM) -r .config    @!\
?TOP: $(RM) Makefile    @!\


/*
* InstallTarget:
* Generate rules to recursively install files
*/
#define InstallTarget()           @!\
?SUBDIRS:install:: local_install sub_install     @!\
%SUBDIRS:install:: local_install        @!\
?SUBDIRS:install.man:: maybe_install.man sub_install.man  @!\
%SUBDIRS:install.man:: maybe_install.man      @!\
?SUBDIRS:deinstall:: sub_deinstall local_deinstall    @!\
%SUBDIRS:deinstall::
 local_deinstall       @!\
?SUBDIRS:deinstall.man:: sub_deinstall.man maybe_deinstall.man @!\
%SUBDIRS:deinstall.man:: maybe_deinstall.man     @!\
                @!\
?MANSRC:install.man-yes: local_install.man      @!\
install.man-no:             @!\
?MANSRC:deinstall.man-yes: local_deinstall.man     @!\
deinstall.man-no:           @!\


/*
```

```
* TagsTarget:
* Generate rules to compute tags files for C source code.
*/
#define TagsTarget()    @!\
tags::        @@\
 $(CTAGS) -w *.[ch]    @@\
 $(CTAGS) -xw *.[ch] > tags  @!\
        @!\
local_clobber::      @@\
 $(RM) tags



/*
* BuildMakefileSH:
* Generate rules to build a Makefile.SH from an Jmakefile and any
* special jmake flags.  This is generally done automatically by the
* template or by any special Jmakefiles.
* This function will simply touch Makefile.SH if no $(TOP)/.package
* exists, assuming the Jmakefile is not in a production environment.
*/
#define BuildMakefileSH(jmakeflags) @!\
Makefile.SH:
 Jmakefile     @@\
 -@if test -f $(TOP)/.package; then \ @@\
  if test -f Makefile.SH; then \ @@\
   echo " $(RM) Makefile.SH~; $(MV) Makefile.SH Makefile.SH~"; \ @@\
   $(RM) Makefile.SH~; $(MV) Makefile.SH Makefile.SH~; \ @@\
  fi; \      @@\
  echo " $(JMAKE) -DTOPDIR=$(TOP) -DCURDIR=$(CURRENT)" jmakeflags; \ @@\
  $(JMAKE) -DTOPDIR=$(TOP) -DCURDIR=$(CURRENT) jmakeflags; \ @@\
 else touch $@; fi


/*
* BuildMakefile:
* Generate rules to build a Makefile from a Makefile.SH.
*/
#define BuildMakefile() @!\
Makefile: Makefile.SH    @@\
 /bin/sh Makefile.SH


/*
* MakefileTarget:
* Generate rules to build a normal Makefile.
*/
#define MakefileTarget()  @!\
```

```
BuildMakefileSH(^^)    @!\
BuildMakefile()


/*
* NormalObjectRule:
* Generate make rule to build usual object files.
*/
#define NormalObjectRule()   @!\
|once _ObjectRule_     @!\
|rule:.c.o:       @!\
|rule: $(CC) -c $(JCFLAGS) $<  @!\
|rule:        @!\
-once

/*
* NormalLibraryObjectRule:
* Generate make rules to build
 "normal" objects.
*/
#define NormalLibraryObjectRule() @!\
|once _ObjectRule_     @!\
|rule:.c.o:       @!\
|rule: $(RM) $@      @!\
|rule: $(CC) -c $(JCFLAGS) $<  @!\
|rule:        @!\
-once

/*
* ProfiledLibraryObjectRule:
* Generate make rules to build both profiled and "normal" objects.
*/
#define ProfiledLibraryObjectRule() @!\
all::        @@\
 @if [ ! -d profiled ]; then mkdir profiled; fi @!\
        @!\
|rule:.c.o:       @!\
|rule: $(RM) $@ profiled/$@   @!\
|rule: $(CC) -pg -c $(JCFLAGS) $*.c @!\
|rule: $(MV) $*.o profiled/$*.o  @!\
|rule: $(CC) -c $(JCFLAGS) $*.c  @!\
|rule:        @!\
local_clean::       @@\
 -@if [ -d profiled ]; then echo " $(RM) profiled/?*.o"; \ @@\
  $(RM) profiled/?*.o; fi


/*
```

```
* DebuggedLibraryObjectRule:
* Generate make rules to build both debuggable and "normal"
* objects.
*/
#define DebuggedLibraryObjectRule()     @!\
all::        @@\
 @if [ ! -d debugger ]; then mkdir debugger; fi @!\
        @!\
|rule:.c.o:       @!\
|rule: $(RM) $@
 debugger/$@   @!\
|rule: $(CC) -g -c $(JCFLAGS) $*.c @!\
|rule: $(MV) $*.o debugger/$*.o  @!\
|rule: $(CC) -c $(JCFLAGS) $*.c  @!\
|rule:        @!\
local_clean::      @@\
 -@if [ -d debugger ]; then echo " $(RM) debugger/?*.o"; \ @@\
  $(RM) debugger/?*.o; fi


/*
* DebuggedAndProfiledLibraryOjbectRule:
* Generate make rules to build debuggable, profiled, and "normal"
* objects.
*/
#define DebuggedAndProfiledLibraryObjectRule() @!\
all::        @@\
 @if [ ! -d profiled ]; then mkdir profiled; fi @@\
 @if [ ! -d debugger ]; then mkdir debugger; fi @!\
        @!\
|rule:.c.o:        @!\
|rule: $(RM) $@ profiled/$@ debugger/$@ @!\
|rule: $(CC) -pg -c $(JCFLAGS) $*.c  @!\
|rule: $(MV) $*.o profiled/$*.o   @!\
|rule: $(CC) -g -c $(JCFLAGS) $*.c  @!\
|rule: $(MV) $*.o debugger/$*.o   @!\
|rule: $(CC) -c $(JCFLAGS) $*.c   @!\
|rule:        @!\
local_clean::       @@\
 -@if [ -d profiled ]; then echo " $(RM) profiled/?*.o"; \ @@\
  $(RM) profiled/?*.o; fi   @@\
 -@if [ -d debugger ];
 then echo " $(RM) debugger/?*.o"; \ @@\
  $(RM) debugger/?*.o; fi


/*
* SharedLibraryObjectRule:
```

```
* Generate make rules to build shared and "normal" object files.
*/
#define SharedLibraryObjectRule()     @!\
all::       @@\
 @if [ ! -d shared ]; then mkdir shared; fi  @!\
        @!\
|rule:.c.o:       @!\
|rule: $(RM) $@ shared/$@   @!\
|rule: $(CC) -pic -c $(SHAREDCODEDEF) $(SHLIBDEF) $(JCFLAGS) $*.c @!\
|rule: $(MV) $*.o shared/$*.o  @!\
|rule: $(CC) -c $(SHLIBDEF) $(JCFLAGS) $*.c    @!\
|rule:       @!\
local_clean::      @@\
 -@if [ -d shared ]; then echo " $(RM) shared/?*.o"; \  @@\
  $(RM) shared/?*.o; fi

/*
* SharedAndDebuggedLibraryObjectRule:
* Generate make rules to build shared, debuggable, and "normal"
* object files.
*/
#define SharedAndDebuggedLibraryObjectRule() @!\
all::         @@\
 @if [ ! -d shared ]; then mkdir shared; fi  @@\
 @if [ ! -d debugger ]; then mkdir debugger; fi @!\
          @!\
|rule:.c.o:        @!\
|rule: $(RM) $@ shared/$@ debugger/$@  @!\
|rule:
 $(CC) -pic -c $(SHAREDCODEDEF) $(SHLIBDEF) $(JCFLAGS) $*.c @!\
|rule: $(MV) $*.o shared/$*.o    @!\
|rule: $(CC) -g -c $(SHLIBDEF) $(JCFLAGS) $*.c @!\
|rule: $(MV) $*.o debugger/$*.o    @!\
|rule: $(CC) -c $(SHLIBDEF) $(JCFLAGS) $*.c @!\
|rule:         @!\
local_clean::        @@\
 -@if [ -d shared ]; then echo " $(RM) shared/?*.o"; \  @@\
  $(RM) shared/?*.o; fi    @@\
 -@if [ -d debugger ]; then echo " $(RM) debugger/?*.o"; \ @@\
  $(RM) debugger/?*.o; fi

/*
* SpecialSharedAndDebuggedObjectRule:
* Generate rules to compile a file with special flags and to make
* shared and debuggable versions.
*/
#define SpecialSharedAndDebuggedObjectRule(objs,depends,options) @!\
all::        @@\
```

```
 @if [ ! -d shared ]; then mkdir shared; fi  @@\
 @if [ ! -d debugger ]; then mkdir debugger; fi @!\
        @!\
objs: depends       @@\
 $(RM) $@ shared/$@ debugger/$@  @@\
 $(CC) -pic -c $(SHAREDCODEDEF) $(SHLIBDEF) $(JCFLAGS) options $*.c @@\
 $(MV) $*.o shared/$*.o    @@\
 $(CC)
 -g -c $(SHLIBDEF) $(JCFLAGS) options $*.c   @@\
 $(MV) $*.o debugger/$*.o   @@\
 $(CC) -c $(SHLIBDEF) $(JCFLAGS) options $*.c

/*
* SpecialSharedObjectRule:
* Generate rules to compile a file with special flags and to make
* shared and debuggable versions.
*/
#define SpecialSharedObjectRule(objs,depends,options)  @!\
all::        @@\
 @if [ ! -d shared ]; then mkdir shared; fi  @!\
        @!\
objs: depends       @@\
 $(RM) $@ shared/$@      @@\
 $(CC) -pic -c $(SHAREDCODEDEF) $(SHLIBDEF) $(JCFLAGS) options $*.c @@\
 $(MV) $*.o shared/$*.o    @@\
 $(CC) -c $(SHLIBDEF) $(JCFLAGS) options $*.c


/*
* SpecialObjectRule:
* Generate rules to compile a file with special flags.
*/
#define SpecialObjectRule(objs,depends,options)  @!\
objs: depends       @@\
 $(RM) $@       @@\
 $(CC) -c $(JCFLAGS) options $*.c


/*
* SpecialProfiledObjectRule:
* Generate rules to compile a file with special flags and to make a
* profiled version.
*/
#define SpecialProfiledObjectRule(objs,depends,options)   @!\
all::        @@\
 @if
 [ ! -d profiled ]; then mkdir profiled; fi @!\
        @!\
```

```
objs: depends       @@\
 $(RM) $@ profiled/$@    @@\
 $(CC) -pg -c $(JCFLAGS) options $*.c @@\
 $(MV) $*.o profiled/$*.o   @@\
 $(CC) -c $(JCFLAGS) options $*.c


/*
* SpecialDebuggedObjectRule:
* Generate rules to compile a file with special flags and to make a
* debuggable version.
*/
#define SpecialDebuggedObjectRule(objs,depends,options) @!\
all::        @@\
 @if [ ! -d debugger ]; then mkdir debugger; fi @!\
        @!\
objs: depends       @@\
 $(RM) $@ debugger/$@    @@\
 $(CC) -g -c $(JCFLAGS) options $*.c @@\
 $(MV) $*.o debugger/$*.o   @@\
 $(CC) -c $(JCFLAGS) options $*.c


/*
* SpecialDebuggedAndProfiledObjectRule:
* Generate rules to compile a file with special flags and to make
* debuggable and profiled versions.
*/
#define SpecialDebuggedAndProfiledObjectRule(objs,depends,options) @!\
all::        @@\
 @if [ ! -d profiled ]; then mkdir profiled; fi @@\
 @if [ ! -d
 debugger ]; then mkdir debugger; fi @!\
        @!\
objs: depends       @@\
 $(RM) $@ profiled/$@ debugger/$@ @@\
 $(CC) -pg -c $(JCFLAGS) options $*.c @@\
 $(MV) $*.o profiled/$*.o   @@\
 $(CC) -g -c $(JCFLAGS) options $*.c @@\
 $(MV) $*.o debugger/$*.o   @@\
 $(CC) -c $(JCFLAGS) options $*.c


/*
* NormalLibraryTarget:
* Generate rules to create a library. The 'srclist' and 'objlist'
* parameters are added to SOURCES and OBJECTS macros. The 'srclist'
* is not otherwise used by this rule, but is necessary for make depend.
```

```
*/
#define NormalLibraryTarget(libname,srclist,objlist) @!\
++OBJECTS objlist @!\
++SOURCES srclist @!\
NormalLibraryObjectRule()  @!\
AllTarget(lib^^libname.a)  @!\
        @!\
lib^^libname.a: objlist   @@\
 $(RM) $@     @@\
 $(AR) $@ objlist   @@\
 $(RANLIB) $@


/*
* NormalSharedLibraryTarget:
* Generate rules to create a shared library; build it into a
* different name so that the we don't hose people by having the
* library gone for long periods.
*/
#define
 NormalSharedLibraryTarget(libname,rev,solist) @!\
AllTarget(lib^^libname.so.rev) @!\
        @!\
lib^^libname.so.rev:  solist  @@\
 $(RM) $@~      @@\
 (cd shared; $(LD) -o ../$@~ -assert pure-text solist)  @@\
 $(RM) $@       @@\
 $(MV) $@~ $@

/*
* NormalSharedLibraryDataTarget:
* Generate rules to create shlib data file; build it into a
* different name so that the we don't hose people by having the
* library gone for long periods.
*/
#define NormalSharedLibraryDataTarget(libname,rev,salist) @!\
AllTarget(lib^^libname.sa.rev) @!\
        @!\
lib^^libname.sa.rev:  salist  @@\
 $(RM) $@      @@\
 $(AR) $@ salist     @@\
 $(RANLIB) $@


/*
* NormalLibraryTarget2:
* Generate rules to create a library in two steps.  This is used to
* create libraries with large numbers of files.
```

```
*/
#define NormalLibraryTarget2(libname,srclist,objlist1,objlist2) @!\
++SOURCES srclist @!\
++OBJECTS objlist1 @!\
++OBJECTS objlist2 @!\
NormalLibraryObjectRule()   @!\
AllTarget(lib^^libname.a)   @!\
        @!\
lib^^libname.a:
 objlist1 objlist2 @@\
 $(RM) $@      @@\
 $(AR) $@ objlist1    @@\
 $(AR) $@ objlist2    @@\
 $(RANLIB) $@


/*
* ProfiledLibraryTarget:
* Generate rules to create a profiled library.
*/
#define ProfiledLibraryTarget(libname,srclist,objlist) @!\
++SOURCES srclist @!\
++OBJECTS objlist @!\
AllTarget(lib^^libname^^_p.a)  @!\
        @!\
lib^^libname^^_p.a: objlist   @@\
 $(RM) $@      @@\
 cd profiled; $(AR) ../$@ objlist @@\
 $(RANLIB) $@


/*
* DebuggedLibraryTarget:
* Generate rules to create a debuggable library.
*/
#define DebuggedLibraryTarget(libname,srclist,objlist) @!\
++SOURCES srclist @!\
++OBJECTS objlist @!\
AllTarget(lib^^libname^^_d.a)  @!\
        @!\
lib^^libname^^_d.a: objlist   @@\
 $(RM) $@       @@\
 cd debugger; $(AR) ../$@ objlist @@\
 $(RANLIB) $@


/*
* AliasedLibraryTarget:
```

```
* Generate rules to link one library to another.
*/
#define AliasedLibraryTarget(libname,alias) @!\
AllTarget(lib^^alias.a)   @!\
        @!\
lib^^alias.a:
 lib^^libname.a @@\
 $(RM) $@     @@\
 $(LN) lib^^libname.a $@


/*
* PrelinkedRelocatableTarget:
* Generate rules to produce a relocatable object file instead of a
* library.
*/
#define PrelinkedRelocatableTarget(objname,objlist,libs) @!\
AllTarget(objname.o)    @!\
         @!\
objname.o: objlist     @@\
 $(RM) $@      @@\
 $(LD) $(JLDFLAGS) -r objlist -o $@ libs


/*
* NormalObjectTarget:
* Generate rules to produce a single object file.o from a file.c.
*/
#define NormalObjectTarget(file) @!\
++SOURCES file^^.c     @!\
AllTarget(file^^.o)     @!\
NormalObjectRule()

/*
* NormalRelocatableTarget:
* Generate rules to produce a relocatable object file instead of a
* library.
*/
#define NormalRelocatableTarget(objname,objlist) @!\
AllTarget(objname.o)    @!\
         @!\
objname.o: objlist     @@\
 $(RM) $@      @@\
 $(LD) $(JLDFLAGS) -r objlist -o $@


/*
* ProfiledRelocatableTarget:
```

```
* Generate rules to produce a profiled relocatable object file
* instead
 of a library.
*/
#define ProfiledRelocatableTarget(objname,objlist) @!\
AllTarget(objname^^_p.o)  @!\
        @!\
objname^^_p.o: objlist   @@\
 $(RM) $@     @@\
 $(LD) -X -r objlist -o $@


/*
* DebuggedRelocatableTarget:
* Generate rules to produce a debuggable relocatable object file
* instead of a library.
*/
#define DebuggedRelocatableTarget(objname,objlist) @!\
AllTarget(objname^^_d.o)  @!\
        @!\
objname^^_d.o: objlist   @@\
 $(RM) $@     @@\
 $(LD) -X -r objlist -o $@

/*
* LintLibraryTarget:
* Generate rules to create a lint library.  Note that the lint
* library is always forced to be newer than the library itself.
*/
#define LintLibraryTarget(libname,srclist) @!\
lintlib:: llib-l^^libname.ln @!\
        @!\
llib-l^^libname.ln: srclist  @@\
 $(RM) $@     @@\
 $(LINT) $(LINTLIBFLAG)^^libname $(LINTFLAGS) srclist


/*
* NormalLintTarget:
* Generate rules to lint a set of sources.
*/
#define NormalLintTarget(srclist) @!\
lint:        @@\
 $(LINT) $(LINTFLAGS) srclist
 $(LINTLIBS)


/*
```

```
* LintTarget:
* Generate rules to lint $(SOURCES) (automatically generated)
*/
#define LintTarget()   @!\
|once _LintTarget_    @!\
NormalLintTarget($(SOURCES)) @!\
-once


/*
* LinkSourceFile:
* Snag source file from some other directory
*/
#define LinkSourceFile(src,dir)  @!\
src:  dir/src   @@\
 $(RM) $@   @@\
 $(LN) $? $@   @!\


/*
* MakeSubincludesForBuild:
* Make includes in sub directories.
*/
#define MakeSubincludesForBuild(step,dir,srclist) @!\
step::  dir srclist        @@\
 @-(list=`echo srclist | sed -e 's/[^ ]*\//g'`; \  @@\
  set -x; cd dir; $(RM) $$list)   @@\
 @for i in srclist; do \      @@\
  (set -x; cd dir; $(LN) ../$$i .) || exit 1; \  @@\
 done          @!\
           @!\
MakeDirectories(dir,dir)      @!\
           @!\
local_realclean::         @@\
 @-(if [ -d dir ]; then \     @@\
  list=`echo srclist | sed -e 's/[^ ]*\//g'`; \  @@\
  set -x; cd dir; $(RM) $$list; fi)


/*
* CommonSubdirsRule:
* Rule for making $(TARGET) in
 every subdirectory, with $(VERB) as
* verbose message and $(FLAGS) as additional flags.
*/
#define CommonSubdirsRule(dirs) @!\
subdirs:       @@\
 @case '${MFLAGS}' in *[ik]*) set +e;; esac; \   @@\
```

```
 for i in dirs ;\     @@\
 do \        @@\
  (cd $$i ; echo $(VERB) "in $(DIR)$$i..."; \  @@\
   $(MAKE) $(MFLAGS) $(FLAGS) $(TARGET)) || exit 1; \ @@\
 done


/*
* NamedTargetSubdirsRule:
* Recursively make a series of steps in the specified directories.
*/
#define NamedTargetSubdirsRule(dirs,name,verb,flags) @!\
name::        @@\
 @case '${MFLAGS}' in *[ik]*) set +e;; esac; \  @@\
 for i in dirs ;\     @@\
 do \        @@\
  (cd $$i ; echo verb "in $(DIR)$$i..."; \ @@\
   $(MAKE) $(MFLAGS) flags name) || exit 1; \ @@\
 done


/*
* NamedTargetSubdirs:
* Recursively make a series of steps.
*/
#define NamedTargetSubdirs(name,verb,flags)  @!\
name::          @@\
 @$(MAKE) subdirs TARGET=name VERB=verb FLAGS=flags


/*
* NamedSubTargetSubdirs:
* Recursively make a series of steps,
 like NamedTargetSubdirs.
* However, the supplied "name" has "sub_" prefixed to it.
*/
#define NamedSubTargetSubdirs(name,verb,flags) @!\
sub_^^^name::          @@\
 @$(MAKE) subdirs TARGET=name VERB=verb FLAGS=flags

/*
* NamedDepthTargetSubdirs:
* Recursively make a series of steps. We first enter the
* subdirectories, then perform the local entries.
* The supplied "name" has "sub_" prefixed to it.
*/
#define NamedDepthTargetSubdirs(name,verb,flags)  @!\
sub_^^^name::      @@\
```

```
 @$(MAKE) subdirs TARGET=name VERB=verb FLAGS=flags @@\
 @echo "Back to $(CURRENT) for "name^^...


/*
* MakeSubdirs:
* Generate rules to do makes in the given subdirectories.
*/
#define MakeSubdirs() \
NamedTargetSubdirs(all,"Making all",^^)


/*
* DependDirs:
* Generate rules to recursively compute dependencies as part of the
* make depend step.
*/
#define DependDirs(dirs) \
NamedTargetSubdirsRule(dirs,depend,"Depending",^^)


/*
* DependSubdirs:
* Generate rules to recursively compute dependencies
 as part of the
* make depend step.
*/
#define DependSubdirs() \
DependDirs($(SUBDIRS))


/*
* InstallSubdirs:
* Generate rules to recursively install and deinstall programs and
* files.
*/
#define InstallSubdirs() \
NamedSubTargetSubdirs(install,"Installing",^^) @!\
NamedDepthTargetSubdirs(deinstall,"Deinstalling",^^)


/*
* InstallManSubdirs:
* Generate rules to recursively install and deinstall manual pages.
*/
#define InstallManSubdirs() \
NamedSubTargetSubdirs(install.man,"Installing man pages",^^) @!\
NamedDepthTargetSubdirs(deinstall.man,"Deinstalling man pages",^^)
```

```
/*
* IncludesSubdirs:
* Generate rules to recursively put include files in build
*/
#define IncludesSubdirs() \
NamedTargetSubdirs(includes,including,^^)


/*
* CleanSubdirs:
* Generate rules to recursively clean out garbage files.
*/
#define CleanSubdirs() \
NamedDepthTargetSubdirs(clean,"Cleaning",^^) @!\
NamedDepthTargetSubdirs(realclean,"Real cleaning",^^) @!\
NamedDepthTargetSubdirs(clobber,"Clobbering",^^)


/*
 * TagSubdirs:
* Generate rules to recursively create tags files.
*/
#define TagSubdirs(dirs) \
NamedTargetSubdirsRule(dirs,tag,"Tagging",^^)

/*
* MakeLintSubdirs:
* Generate rules to recursively lint directories as part of the
* named step.
*/
#define MakeLintSubdirs(dirs,target) \
NamedTargetSubdirsRule(dirs,target,"Linting",^^)


/*
* LintDirs:
* Generate rules to recursively lint directories as part of the
* make lint step.
*/
#define LintDirs(dirs) \
MakeLintSubdirs(dirs,lint)


/*
* LintSubdirs:
* Generate rules to recursively lint directories as part of the
```

```
* make lint step.
*/
#define LintSubdirs() \
LintDirs($(SUBDIRS))


/*
* MakeDirs:
* Creates a set of directories, even if some directories in the path
* do not already exist. There should be no '@!' at the end of the
* '#define' line, because this macro is used *inside* building rules.
*/
#define MakeDirs(dirs) \
 @case '${MFLAGS}' in *[i]*) set +e;; esac; \   @@\
 for dir in dirs;
 do \         @@\
  (set -x; test -d $$dir || $(INSTALLDIR) $$dir) || \ @@\
  exit 1; \  @@\
 done

/*
* _MakeInstallDirs:
* Creates a set of intall directories, even if some directories in the path
* do not already exist. There should be no '@!' at the end of the
* '#define' line, because this macro is used *inside* building rules.
*/
#define _MakeInstallDirs(dirs) \
 @case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
 for dir in dirs; do \       @@\
  _MakeInstallDir($$dir) \     @@\
 done

/*
* _MakeInstallDir:
* Internal macro to create a missing install directory.
*/
#define _MakeInstallDir(dir) \
 (set -x; test -d $(INSTALL_PREFIX)^^^dir || \ @@\
  $(INSTALLDIR) $(INSTALL_PREFIX)^^^dir);

/*
* _MakeInstallDirIgnore:
* Same as _MakeInstallDir but handles "make -i" as well.
*/
#define _MakeInstallDirIgnore(dir) \
 @case '${MFLAGS}' in *[i]*) set +e;; esac;  \ @@\
 _MakeInstallDir(dir)
```

```
/*
* _RmInstallDirs:
* Removes a set of intall directories.
* There should be no '@!'
 at the end of the '#define' line, because this
* macro is used *inside* building rules.
*/
#define _RmInstallDirs(dirs) \
 @case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
 for dir in dirs; do \       @@\
  (set -x; test -d $$dir && $(RM) -r $(INSTALL_PREFIX)$$dir); \ @@\
 done

/*
* MakeDirectories:
* Generate rules to create a hierarchy of directories.
*/
#define MakeDirectories(step,dirs)  @!\
step::         @@\
 MakeDirs(dirs)


/*
* MakeInstallDirectories:
* Generate a rule to create a set of directories at installation
* time (removed by deinstall).
*/
#define MakeInstallDirectories(dirs) @!\
local_install::    @@\
 _MakeInstallDirs(dirs) @!\
      @!\
local_deinstall::   @@\
 _RmInstallDirs(dirs)


/*
* MakeLintLibSubdirs:
* Generate rules to recursively create lint libraries.
*/
#define MakeLintLibSubdirs(dirs) @!\
MakeLintSubdirs(dirs,lintlib)


/*
* MakeMakeSubdirs:
* Generate rules to recursively recreate target as part of the
* specified step in the build.
```

```
  This assumes Makefile.SH has
* already been built (which is the case for a delivery), but does
* not rely on the existence of a Makefile.
*/
#define MakeMakeSubdirs(target) @!\
target::        @@\
 @case '${MFLAGS}' in *[ik]*) set +e;; esac; \ @@\
 for i in $(SUBDIRS);\    @@\
 do \        @@\
  echo "Making "target" in $(DIR)$$i..."; \ @@\
  (cd $$i || exit 1; \   @@\
  if test ! -f Makefile; then /bin/sh Makefile.SH; fi; \ @@\
  $(MAKE) $(MFLAGS) target) || exit 1;\ @@\
 done



/*
* MakeMakefilesSH:
* Generate rules to recursively recreate target as part of the
* specified step in the build.  If $(TOP) is set to an absolute
* path, don't prepend the ../ prefix.  This makes running things
* outside of the source tree to be much easier.
*/
#define MakeMakefilesSH()  @!\
Makefiles.SH:: Makefile.SH    @@\
 @case '${MFLAGS}' in *[ik]*) set +e;; esac; \ @@\
 for i in $(SUBDIRS);\     @@\
 do \        @@\
  case "$(DIR)$$i/" in \        @@\
  ^^*^^/^^*^^/^^*^^/^^*^^/) newtop=../../../..;;
 \ @@\
  ^^*^^/^^*^^/^^*^^/) newtop=../../..;; \    @@\
  ^^*^^/^^*^^/) newtop=../..;; \      @@\
  *^^/) newtop=..;; \         @@\
  esac; \            @@\
  case "$(TOP)" in \    @@\
  /^^*) newtop="$(TOP)" ;; \  @@\
  esac; \       @@\
  echo "Making Makefiles.SH in $(DIR)$$i..."; \ @@\
  (cd $$i || exit 1; \   @@\
   if test -f Jmakefile; then \ @@\
    $(MAKE) $(MFLAGS) -f ../Makefile \ @@\
     Makefile TOP=$$newtop CURRENT=$(DIR)$$i && \  @@\
    $(MAKE) $(MFLAGS) Makefiles.SH; \ @@\
   fi; \      @@\
  ) || exit 1; \ @@\
 done
```

```
/*
* MakefileSubdirs:
* Generate rules to create Makefiles.
*/
#define MakefileSubdirs()  @!\
MakeMakeSubdirs(Makefiles)  @!\
MakeMakefilesSH()


/*
* CppScriptTarget:
* Generate rules to create a shell script by running the input
* through cpp.
*/
#define CppScriptTarget(dst,src,defs,deplist) @!\
dst::  src deplist      @@\
 $(RM) $@       @@\
 $(CPP) defs <src | \    @@\
  sed -e '/^#  *[0-9][0-9]*  *.*$$/d' >$@  @@\
 chmod a+x $@


/*
 * MakeScriptFromCpp:
* Generate rules to create a script from a file with a
* .cpp suffix.
*/
#define MakeScriptFromCpp(name,defs) @!\
CppScriptTarget(name,name.cpp,defs,^^)


/*
* ShellScriptTargetExt:
* Generate rules to create and install a set of scripts from
* ext files (.sh and .SH are the most common examples). Man pages
* derived from the name of the scripts are also installed unless
* NoManPages() is specified.
*/
#define ShellScriptTargetExt(scripts,ext) @!\
++SCRIPTS scripts @!\
SimpleShellScriptTargetExt(scripts,ext)  @!\
InstallScripts()       @!\
InstallManScripts()


/*
* ShellScriptTarget:
```

```
* Generate rules to create and install a set of scripts from
* .SH files. Man pages derived from the name of the scripts are
* also installed unless NoManPages() is specified.
*/
#define ShellScriptTarget(scripts) @!\
ShellScriptTargetExt(scripts,.SH)


/*
* SimpleShellScriptTargetExt:
* Generate rules to create a set of scripts from ext files where
* ext is usually
 something like .sh or .SH, or whatever file
* extension you like..
*/
#define SimpleShellScriptTargetExt(scripts,ext) @!\
AllTarget(scripts)   @!\
	@!\
|expand s!scripts!   @!\
!s: !s^^ext     @@\
 /bin/sh !s^^ext   @!\
	@!\
-expand


/*
* SimpleShellScriptTarget:
* Generate rules to create a set of scripts from .SH files.
*/
#define SimpleShellScriptTarget(scripts) @!\
SimpleShellScriptTargetExt(scripts,.SH)


/*
* ShellScriptLongTarget:
* Generate rules to create a set of scripts from .SH files where
* the name of the generated file is different from the basename of
* the .SH file (when, for instance, the total length with the .SH
* extension would not leave enough space for RCS ,v extension).
*/
#define ShellScriptLongTarget(basename,scriptname) @!\
++LSCRIPTS scriptname @!\
AllTarget(scriptname)  @!\
	@!\
scriptname: basename^^.SH @@\
 /bin/sh basename^^.SH @!\
	@!\
InstallScripts()   @!\
```

```
?NOMAN:|skip    @!\
InstallManPageLong(basename,$(MANSRC),scriptname) @!\
-skip


/*
 * ForceTarget:
* The force target will force reconstruction of all the other
* targets which include .FORCE in their own dependencies.
*/
#define ForceTarget() @!\
|once _force_   @!\
.FORCE:     @!\
      @!\
-once


/*
* RemoteTargetDependency:
* A local target may rely on a remote dependency (e.g. a library)
* made in a separate directory. This rule explicits the dependency
* and forces a make of that dependency in the remote directory.
*/
#define RemoteTargetDependency(target,directory,dependency) @!\
RemoteDependency(directory,dependency) @!\
target: directory/^^^dependency @!\


/*
* RemoteDependency:
* Specify rules for making a remote dependency.
*/
#define RemoteDependency(directory,dependency) @!\
ForceTarget()       @!\
|once =directory/^^^dependency=   @!\
directory/^^^dependency: .FORCE   @@\
 @echo "Checking "^^^dependency" in "^^^directory"..." @@\
 cd ^^^directory; $(MAKE) ^^^dependency @@\
 @echo "Continuing in $(CURRENT)..." @!\
     @!\
-once

/*
 * SetSubdirs:
* Actually forces the definition of SUBDIRS, and lets the user
* specify what the sub-directories are.  This will be added to the
* customization part.
*/
```

```
#define SetSubdirs(subdirs) @!\
>SUBDIRS @!\
+SUBDIRS = subdirs


/*
* NoManPages:
* Actually forces the definition of NOMAN, which tells the jmake
* program to not generate rules for installing manual pages.
*/
#define NoManPages() @!\
>NOMAN


/*
* Expand:
* This powerful macro expands the `rule' given a `pattern'. It
* relies on a built-in command in jmake. The expansion is
* documented in the short notes file that comes with jmake and
* gives some insights on the internal syntax.
*/
#define Expand(rule, pattern) @!\
|expand pattern @!\
rule @!\
-expand


/*
* Lex and yacc stuff.
*/

/*
* YaccRule:
* This is the rule which is used to build a .c file from a .y file.
*/
#define YaccRule() @!\
AddSuffix(.y)     @!\
|once _YaccRule_    @!\
|rule:.y.c:      @!\
|rule: $(YACC) $(JYFLAGS)
 $< @!\
|rule: $(MV) y.tab.c $@   @!\
|rule:       @!\
-once

/*
* SimpleYaccTarget:
* Declare a yacc base.y file to be used in the building of the
```

```
* specified target program. The source file must be given without
* its final .y extension. The name of the .c and .o will be
* derived from the source file basename provided.
*/
#define SimpleYaccTarget(program,base) @!\
++SOURCES base.y @!\
++OBJECTS base.o @!\
YaccRule()    @!\
program: base.c   @!\
     @!\
local_realclean::  @@\
 $(RM) base.c  @!\


/*
* ComplexYaccTarget:
* Declare a yacc base.y file to be used in the building of the
* specified target program. The source file must be given without
* its final .y extension. The name of the .c and .o will be
* derived from the source file basename provided.
* The difference with SimpleYaccTarget is the identifying process
* where all the 'yy' are replaced by the specified prefix.
*/
#define ComplexYaccTarget(program,base,prefix) @!\
++SOURCES base.y @!\
++OBJECTS base.o
 @!\
program: base.c   @!\
     @!\
base.c: base.y     @@\
 $(YACC) $(JYFLAGS) base.y @@\
 $(SED) -e 's/yy\(.\)/prefix\1/g' < y.tab.c > base.c @@\
 $(SED) -e 's/yy\(.\)/prefix\1/g' < y.tab.h > base.h @@\
 $(RM) y.tab.c y.tab.h @!\
      @!\
local_realclean::  @@\
 $(RM) base.c  @!\


/*
* SimpleYaccInclude:
* Declare that program will need an include file produced by
* the output of yacc on base.y, which typically produces a file
* named y.tab.h, which will be renamed as base.h.
* The only problem is that the dependencies towards base.h have
* to be manually given in the Jmakefile.
*/
#define SimpleYaccInclude(base) @!\
```

```
base.h: base.c  @@\
 @if test -f y.tab.h; then \ @@\
  echo " $(MV) y.tab.h $@"; \ @@\
  $(MV) y.tab.h $@; \  @@\
 fi       @!\
       @!\
local_realclean::    @@\
 $(RM) base.h

/*
* ComplexYaccInclude:
* Declare that program will need an include file produced by
* the output of yacc on base.y, which typically produces a file
* named y.tab.h, which will
 be renamed as base.h.
* The difference with SimpleYaccInclude is the identifying process
* of the y.tab.h file where all 'yy' are renamed to prefix.
* The only problem is that the dependencies towards base.h have
* to be manually given in the Jmakefile.
*/
#define ComplexYaccInclude(base,prefix) @!\
base.h: base.c  @@\
 @if test -f y.tab.h; then \ @@\
  echo " $(SED) -e 's/yy\(.\)/prefix\1/g' < y.tab.h > base.h"; \ @@\
  $(SED) -e 's/yy\(.\)/prefix\1/g' < y.tab.h > base.h; \ @@\
  echo " $(RM) y.tab.h"; \ @@\
  $(RM) y.tab.h; \  @@\
 elif test -f base.h; then \ @@\
  echo " $(CP) base.h base.ht"; \ @@\
  $(CP) base.h base.ht; \ @@\
  echo " $(SED) -e 's/yy\(.\)/prefix\1/g' < base.ht > base.h"; \ @@\
  $(SED) -e 's/yy\(.\)/prefix\1/g' < base.ht > base.h; \ @@\
  echo " $(RM) base.ht"; \ @@\
  $(RM) base.ht; \  @@\
 fi       @!\
       @!\
local_realclean::    @@\
 $(RM) base.h


/*
* NormalYaccTarget:
* Declare a yacc base.y file which should produce a base.c and
* base.h file
 as derived from the output of yacc, to be used by
* the specified program.
*/
#define NormalYaccTarget(program,base) @!\
```

```
SimpleYaccTarget(program,base) @!\
SimpleYaccInclude(base)


/*
* IdentifiedYaccTarget:
* Declare a yacc base.y file which should produce a base.c and
* base.h file as derived from the output of yacc, to be used by
* the specified program. The specified prefix is used to remplace
* all the 'yy' in the generated file, for use when more than a
* single parser is needed in one executable.
*/
#define IdentifiedYaccTarget(program,base,prefix) @!\
ComplexYaccTarget(program,base,prefix) @!\
ComplexYaccInclude(base,prefix)


/*
* SimpleLexTarget:
* This declares a lex base.l file which is to be ran through
* lex to produce a base.c file.
*/
#define SimpleLexTarget(program,base) @!\
++SOURCES base.l @!\
++OBJECTS base.o @!\
|once _LexRule_     @!\
|rule:.l.c:      @!\
|rule: $(LEX) $(JLFLAGS) $<  @!\
|rule: $(MV) lex.yy.c $@  @!\
|rule:       @!\
-once       @!\
AddSuffix(.l)   @!\
program:
 base.c   @!\
      @!\
local_realclean::  @@\
 $(RM) base.c  @!\


/*
* IdentifiedLexTarget:
* This declares a lex base.l file which is to be ran through
* lex to produce a base.c file. The prefix is used to replace
* the 'yy', so that the lexical analyzer may be identified.
*/
#define IdentifiedLexTarget(program,base,prefix) @!\
++SOURCES base.l @!\
++OBJECTS base.o @!\
```

```
program: base.c   @!\
     @!\
base.c: base.l     @@\
 $(LEX) $(JLFLAGS) base.l @@\
 $(SED) -e 's/yy\(.\)/prefix\1/g' < lex.yy.c > base.c @@\
 $(RM) lex.yy.c    @!\
     @!\
local_realclean::  @@\
 $(RM) base.c  @!\


/*
* NormalLexDependTarget:
* Declare that program will need an include file produced by
* the output of lex on base.l, which typically produces a file
* named lex.yy.c which will be renamed as base.c. Besides, the
* lexical analyzer needs the file parser.h produced by running
* parser.y through yacc and renaming y.tab.h as parser.h.
*/
#define NormalLexDependTarget(program,base,parser)
 @!\
base.o: parser.h @!\
    @!\
SimpleLexTarget(program,base)


/*
* IdentifiedLexDependTarget:
* Declare that program will need an include file produced by
* the output of lex on base.l, which typically produces a file
* named lex.yy.c which will be renamed as base.c. Besides, the
* lexical analyzer needs the file parser.h produced by running
* parser.y through yacc and renaming y.tab.h as parser.h.
* The lexical analyzer is identified with the supplied prefix,
* which replaces the regular 'yy' prefix in the symbol names.
*/
#define IdentifiedLexDependTarget(program,base,parser,prefix) @!\
base.o: parser.h @!\
    @!\
IdentifiedLexTarget(program,base,prefix)


/*
* NormalParserTarget:
* Specify that program is using the lex/yacc combination to
* produce a parser. The lexic and parser parameters are the
* base name of the .l and .y file, respectively.
*/
```

```
#define NormalParserTarget(program,lexic,parser) @!\
NormalLexDependTarget(program,lexic,parser)
 @!\
NormalYaccTarget(program,parser)


/*
* IdentifiedParserTarget:
* Specify that program is using the lex/yacc combination to
* produce a parser. The lexic and parser parameters are the
* base name of the .l and .y file, respectively. The parser
* produced is identified via its prefix, which replaces all
* the normally supplied 'yy' prefix, hence making it possible
* to have multiple parsers in a single executable.
*/
#define IdentifiedParserTarget(program,lexic,parser,prefix) @!\
IdentifiedLexDependTarget(program,lexic,parser,prefix) @!\
IdentifiedYaccTarget(program,parser,prefix)
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/files/Jmake.rules
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sighold.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sighold.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:21  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sighold: Inlibc
?MAKE: -pick add $@ %<
?S:d_sighold:
?S: This variable conditionally defines HAS_SIGHOLD if sighold() is
?S: available to hold signals.
?S:.
?C:HAS_SIGHOLD:
?C: This symbol, if defined, indicates that the sighold routine is
?C: available to hold signals.
?C:.
```

```
?H:#$d_sighold HAS_SIGHOLD /**/
?H:.
?LINT:set d_sighold
:
 see if sighold exists
set sighold d_sighold
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sighold.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2017, Karl Williamson
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_wcrtomb: Inlibc
?MAKE: -pick add $@ %<
?S:d_wcrtomb:
?S: This variable conditionally defines the HAS_WCRTOMB symbol if the
?S: wcrtomb() routine is available to be used to convert a wide character
?S: into a multi-byte character.
?S:.
?C:HAS_WCRTOMB:
?C: This symbol, if defined, indicates that the wcrtomb routine is
?C: available to convert a wide character into a multi-byte character.
?C:.
?H:#$d_wcrtomb HAS_WCRTOMB /**/
?H:.
?LINT: set d_wcrtomb
: see if wcrtomb exists
set wcrtomb d_wcrtomb
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_wcrtomb.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_db.U,v $
?RCS: Revision 3.0.1.3  1995/07/25  14:10:22  ram
?RCS: patch56: conditionally use const in test programs (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1995/05/12  12:14:42  ram
?RCS: patch54: extended for more intimate DB probing (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:21:50  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:i_db db_hashtype db_prefixtype: Inhdr +cc +ccflags rm_try contains cat \
  d_const
?MAKE: -pick
 add $@ %<
?S:i_db:
?S: This variable conditionally defines the I_DB symbol, and indicates
?S: whether a C program may include Berkeley's DB include file <db.h>.
?S:.
?S:db_hashtype:
?S: This variable contains the type of the hash structure element
?S: in the <db.h> header file.  In older versions of DB, it was
?S: int, while in newer ones it is u_int32_t.
?S:.
?S:db_prefixtype:
?S: This variable contains the type of the prefix structure element
?S: in the <db.h> header file.  In older versions of DB, it was
?S: int, while in newer ones it is size_t.
?S:.
?C:I_DB:
?C: This symbol, if defined, indicates to the C program that it should
?C: include Berkeley's DB include file <db.h>.
?C:.
?C:DB_Prefix_t:
?C: This symbol contains the type of the prefix structure element
?C: in the <db.h> header file.  In older versions of DB, it was
?C: int, while in newer ones it is u_int32_t.
?C:.
?C:DB_Hash_t:
?C: This symbol contains the type of the prefix structure element
?C: in the <db.h> header
```

```
 file.  In older versions of DB, it was
?C: int, while in newer ones it is size_t.
?C:.
?H:#$i_db I_DB  /**/
?H:#define DB_Hash_t $db_hashtype  /**/
?H:#define DB_Prefix_t $db_prefixtype   /**/
?H:.
?LINT:set i_db
: see if this is a db.h system
set db.h i_db
eval $inhdr

@if DB_Hash_t
case "$i_db" in
define)
 : Check the return type needed for hash
 echo " "
 echo "Checking return type needed for hash for Berkeley DB ..." >&4
 $cat >try.c <<EOCP
#$d_const HASCONST
#ifndef HASCONST
#define const
#endif
#include <sys/types.h>
#include <db.h>
u_int32_t hash_cb (ptr, size)
const void *ptr;
size_t size;
{
}
HASHINFO info;
int main()
{
 info.hash = hash_cb;
}
EOCP
 if $cc $ccflags -c try.c >try.out 2>&1 ; then
  if $contains warning try.out >>/dev/null 2>&1 ; then
   db_hashtype='int'
  else
   db_hashtype='u_int32_t'
  fi
 else
  echo "I can't seem to compile the test program." >&4
  db_hashtype=int
 fi
 $rm_try
 echo "Your version of Berkeley DB uses $db_hashtype for hash."
```

```
 ;;
*) db_hashtype=int
 ;;
esac

@end
@if
 DB_Prefix_t
case "$i_db" in
define)
 : Check the return type needed for prefix
 echo " "
 echo "Checking return type needed for prefix for Berkeley DB ..." >&4
 cat >try.c <<EOCP
#$d_const HASCONST
#ifndef HASCONST
#define const
#endif
#include <sys/types.h>
#include <db.h>
size_t prefix_cb (key1, key2)
const DBT *key1;
const DBT *key2;
{
}
BTREEINFO info;
int main()
{
 info.prefix = prefix_cb;
}
EOCP
 if $cc $ccflags -c try.c  >try.out 2>&1 ; then
  if $contains warning try.out >>/dev/null 2>&1 ; then
   db_prefixtype='int'
  else
   db_prefixtype='size_t'
  fi
 else
  echo "I can't seem to compile the test program." >&4
  db_prefixtype='int'
 fi
 $rm_try
 echo "Your version of Berkeley DB uses $db_prefixtype for prefix."
 ;;
*) db_prefixtype='int'
 ;;
esac
```

@end

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_db.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: archname.U,v 3.0.1.3 1997/02/28 15:24:32 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: archname.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:24:32  ram
?RCS: patch61: changed the way the archname is mangled from uname
?RCS:
?RCS: Revision 3.0.1.2  1995/05/12  12:05:24  ram
?RCS: patch54: protect against spaces in "uname -m" output (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1995/02/15  14:14:21  ram
?RCS: patch51: created
?RCS:
?MAKE:archname myarchname useversionedarchname: sed Loc Myread Oldconfig \
 osname test rm usethreads usemultiplicity use64bitint
 use64bitall \
 archname64 uselongdouble longdblsize doublesize targetarch Setvar \
 api_versionstring usequadmath
?MAKE: -pick add $@ %<
?S:archname:
?S: This variable is a short name to characterize the current
?S: architecture.  It is used mainly to construct the default archlib.
?S:.
?S:myarchname:
?S: This variable holds the architecture name computed by Configure in
?S: a previous run. It is not intended to be perused by any user and
?S: should never be set in a hint file.
?S:.
?S:useversionedarchname:
?S: This variable indicates whether to include the $api_versionstring
?S: as a component of the $archname.
?S:.
?C:ARCHNAME:
?C: This symbol holds a string representing the architecture name.
```

```
?C: It may be used to construct an architecture-dependant pathname
?C: where library files may be held under a private library, for
?C: instance.
?C:.
?H:#define ARCHNAME "$archname"  /**/
?H:.
?T:xxx tarch
?F:!archname.cbu
?INIT:archname=''
: determine the architecture name
echo " "
?X:
 We always recompute archname in case osname changes. However, we need
?X: to be careful since, as ADO rightfully pointed out, some systems pick
?X: silly architecture names (0001307135000-aix on AIX or 9000/715-ux under
?X: HP-UX). Therefore, we allow hint files to superseed our guess and ask
?X: the user for confirmation.
if xxx=`./loc arch blurfl $pth`; $test -f "$xxx"; then
 tarch=`arch`"-$osname"
elif xxx=`./loc uname blurfl $pth`; $test -f "$xxx" ; then
 if uname -m > tmparch 2>&1 ; then
  tarch=`$sed -e 's/ *$//' -e 's/ /_/g' \
   -e 's/$/"'-$osname/" tmparch`
 else
  tarch="$osname"
 fi
 $rm -f tmparch
else
 tarch="$osname"
fi
case "$myarchname" in
"|"$tarch") ;;
*)
 echo "(Your architecture name used to be $myarchname.)"
 archname=''
 ;;
esac
case "$targetarch" in
'') ;;
?X: Very GCCian.
*)  archname=`echo $targetarch|sed 's,^[^-]*-,,'` ;;
esac
myarchname="$tarch"
case "$archname" in
'') dflt="$tarch";;
*) dflt="$archname";;
esac
rp='What is your architecture name'
```

```
. ./myread
archname="$ans"

:
 optionally add API version to the architecture for versioned archlibs
case "$useversionedarchname" in
$define|true|[yY]*) dflt='y';;
*)                  dflt='n';;
esac
rp='Add the Perl API version to your archname?'
. ./myread
case "$ans" in
y|Y) useversionedarchname="$define" ;;
*)      useversionedarchname="$undef" ;;
esac
case "$useversionedarchname" in
$define)
 case "$archname" in
 *-$api_versionstring)
  echo "...and architecture name already has -$api_versionstring" >&4
  ;;
 *)
  archname="$archname-$api_versionstring"
  echo "...setting architecture name to $archname." >&4
  ;;
 esac
 ;;
esac

@if usethreads
case "$usethreads" in
$define)
 echo "Threads selected." >&4
 case "$archname" in
 *-thread*) echo "...and architecture name already has -thread." >&4
  ;;
 *)      archname="$archname-thread"
  echo "...setting architecture name to $archname." >&4
  ;;
 esac
 ;;
esac
@end
@if usemultiplicity
case "$usemultiplicity" in
$define)
 echo "Multiplicity selected."
```

```
 >&4
 case "$archname" in
 *-multi*) echo "...and architecture name already has -multi." >&4
  ;;
 *)      archname="$archname-multi"
  echo "...setting architecture name to $archname." >&4
  ;;
 esac
 ;;
esac
@end
@if use64bitint
case "$use64bitint$use64bitall" in
*"$define"*)
 case "$archname64" in
 ")
  echo "This architecture is naturally 64-bit, not changing architecture name." >&4
  ;;
 *)
  case "$use64bitint" in
  "$define") echo "64 bit integers selected." >&4 ;;
  esac
  case "$use64bitall" in
  "$define") echo "Maximal 64 bitness selected." >&4 ;;
  esac
  case "$archname" in
  *-$archname64*) echo "...and architecture name already has $archname64." >&4
   ;;
  *)      archname="$archname-$archname64"
   echo "...setting architecture name to $archname." >&4
   ;;
  esac
  ;;
 esac
esac
@end
@if uselongdouble
case "$uselongdouble" in
$define)
 echo "Long doubles selected." >&4
 case "$longdblsize" in
 $doublesize)
  echo "...but long doubles are equal to doubles, not
 changing architecture name." >&4
  ;;
 *)
  case "$archname" in
  *-ld*) echo "...and architecture name already has -ld." >&4
```

```
   ;;
  *)      archname="$archname-ld"
   echo "...setting architecture name to $archname." >&4
   ;;
  esac
  ;;
 esac
 ;;
esac
@end
@if usequadmath
case "$usequadmath" in
$define)
 echo "quadmath selected." >&4
 case "$archname" in
 *-quadmath*) echo "...and architecture name already has -quadmath." >&4
  ;;
 *)      archname="$archname-quadmath"
  echo "...setting architecture name to $archname." >&4
  ;;
 esac
 ;;
esac
@end
if $test -f archname.cbu; then
 echo "Your platform has some specific hints for architecture name, using them..."
 . ./archname.cbu
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/archname.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: kernel.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: kernel.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:kernel: Getfile test
?MAKE: -pick add $@ %<
?S:kernel:
?S: This variable becomes the (fully rooted) path name of the kernel.
?S:.
: find the name of the kernel.
echo " "
case "$kernel" in
")
 if $test -r /unix; then
  dflt=/unix
 elif $test -r /vmunix; then
  dflt=/vmunix
 elif $test -r /xenix; then
  dflt=/xenix
 elif $test -r /mach; then
  dflt=/mach
 elif
 $test -r /dgux; then
  dflt=/dgux
 elif $test -r /hp-ux; then
  dflt=/hp-ux
 elif $test -r /syst; then
  dflt=/syst
 elif $test -r /arix; then
  dflt=/arix
 elif $test -r /irix; then
  dflt=/arix
 else
  dflt='unknown'
  set X /*x
  shift
  case $# in
  1)
   if $test -r "$1"; then
    dflt="$1"
   fi
   ;;
  esac
 fi
 ;;
*)
 dflt="$kernel"
 ;;
esac
fn=f
rp='What is the name of your kernel?'
. ./getfile
```

```
kernel="$ans"
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/kernel.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_itimer.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_itimer.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:25  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_itimer: Inlibc
?MAKE: -pick add $@ %<
?S:d_itimer:
?S: This variable conditionally defines the HAS_ITIMER symbol, which
?S: indicates that the setitimer() routine exists.  The setitimer()
?S: routine supports sub-second accuracy for one real-time and two
?S: cpu clocks.
?S:.
?C:HAS_ITIMER (ITIMER):
?C: This symbol, if defined, indicates
 that the setitimer() routine exists.
?C:.
?H:#$d_itimer HAS_ITIMER /**/
?H:.
?LINT:set d_itimer
: see if setitimer exists
set setitimer d_itimer
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_itimer.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
```

```
?MAKE:d_j0 d_j0l: Inlibc
?MAKE: -pick add $@ %<
?S:d_j0:
?S: This variable conditionally defines the HAS_J0 symbol, which
?S: indicates to the C program that the j0() routine is available.
?S:.
?S:d_j0l:
?S: This variable conditionally defines the HAS_J0L symbol, which
?S: indicates to the C program that the j0l() routine is available.
?S:.
?C:HAS_J0:
?C: This symbol, if defined, indicates to the C program that the
?C: j0() function is available for Bessel functions of the first
?C: kind of the order zero, for doubles.
?C:.
?C:HAS_J0L:
?C: This symbol, if defined, indicates to the C program that the
?C: j0l() function is available for Bessel functions of the first
?C: kind of the order zero, for long doubles.
?C:.
?H:#$d_j0 HAS_J0  /**/
?H:#$d_j0l HAS_J0L  /**/
?H:.
?LINT:set
 d_j0
?LINT:set d_j0l
: see if j0 exists
set j0 d_j0
eval $inlibc

: see if j0l exists
set j0l d_j0l
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_j0.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2017, 2019, Karl Williamson
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
?MAKE:i_wctype: Inhdr
?MAKE: -pick add $@ %<
?S:i_wctype:
?S: This variable conditionally defines the I_WCTYPE symbol,
?S: that indicates whether a C program may include <wctype.h>.
?S:.
?C:I_WCTYPE:
?C: This symbol, if defined, indicates that <wctype.h> exists.
?C:.
?H:#$i_wctype I_WCTYPE  /**/
?H:.
?LINT:set i_wctype
: see if this system has wctype.h
set wctype.h i_wctype
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_wctype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: installprefix.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: installprefix.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?RCS:
?MAKE:installprefix installprefixexp: Getfile Loc \
 Oldconfig afs cat package prefix
?MAKE: -pick add $@ %<
?S:installprefix:
?S: This variable holds the name of the directory below which
?S: "make install" will install the package.  For most users, this
?S: is the same
 as prefix.  However, it is useful for
?S: installing the software into a different (usually temporary)
```

```
?S: location after which it can be bundled up and moved somehow
?S: to the final location specified by prefix.
?S:.
?S:installprefixexp:
?S: This variable holds the full absolute path of installprefix
?S: with all ~-expansion done.
?S:.
: determine installation prefix for where package is to be installed.
if $afs; then
$cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
files will reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installprefix" in
 '') dflt=`echo $prefix | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installprefix";;
 esac
else
$cat <<EOM

In some special cases, particularly when building $package for distribution,
it is convenient to distinguish the directory in which files should be
installed from the directory ($prefix) in which they will
eventually
 reside.  For most users, these two directories are the same.

EOM
 case "$installprefix" in
 '') dflt=$prefix ;;
 *) dflt=$installprefix;;
 esac
fi
fn=d~
rp='What installation prefix should I use for installing files?'
. ./getfile
installprefix="$ans"
installprefixexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/installdirs/installprefix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_brokstat.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_brokstat.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:30:53  ram
?RCS: patch61: created
?RCS:
?MAKE:d_brokstat: cat contains cppstdin cppminus +cppflags rm Setvar
?MAKE: -pick add $@ %<
?S:d_brokstat:
?S: This variable conditionally defines STAT_MACROS_BROKEN if some
?S: of the S_IS*() macros from <sys/stat.h> give false positive on
?S: regular files.
?S:.
?C:STAT_MACROS_BROKEN:
?C: This symbol, if defined, indicates that the S_IS*() stat macros
?C: such
 as S_ISBLK() give false positive and are thus unusable.
?C: Your best bet is then to supply your own set.
?C:.
?H:#$d_brokstat STAT_MACROS_BROKEN  /**/
?H:.
?F:!try.c !try
?LINT:set d_brokstat
?LINT:usefile try
?X: This test inspired by autoconf -- RAM, 28/02/97
: are stat macros sane?
echo " "
echo "Checking whether your stat() macros are broken..."
$cat >try.c <<'EOC'
#include <sys/types.h>
#include <sys/stat.h>

#if defined(S_ISBLK) && defined(S_IFDIR)
#if S_ISBLK(S_IFDIR)
Broken
#endif
#endif

#if defined(S_ISBLK) && defined(S_IFCHR)
#if S_ISBLK(S_IFCHR)
Broken
#endif
```

```
#endif

#if defined(S_ISLNK) && defined(S_IFREG)
#if S_ISLNK(S_IFREG)
Broken.
#endif
#endif

#if defined(S_ISSOCK) && defined(S_IFREG)
#if S_ISSOCK(S_IFREG)
Broken.
#endif
#endif
EOC
$cppstdin $cppflags $cppminus <try.c 2>/dev/null >try
if $contains Broken try >/dev/null 2>&1; then
 echo "Alas, they are.  I'll use my own macro set then." >&4
 val="$define"
else
 echo "Nope, working just fine." >&4
 val="$undef"
fi
$rm
 -f try try.c
set d_brokstat
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_brokstat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_setproctitle: Inlibc
?MAKE: -pick add $@ %<
?S:d_setproctitle:
?S: This variable conditionally defines the HAS_SETPROCTITLE symbol,
?S: which indicates to the C program that the setproctitle() routine
?S: is available.
?S:.
?C:HAS_SETPROCTITLE:
?C: This symbol, if defined, indicates that the setproctitle routine is
```

```
?C: available to set process title.
?C:.
?H:#$d_setproctitle HAS_SETPROCTITLE  /**/
?H:.
?LINT:set d_setproctitle
: see if setproctitle exists
set setproctitle d_setproctitle
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_setproctitle.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setpgrp.U,v 3.0.1.3 1997/02/28 15:44:16 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_setpgrp.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:44:16  ram
?RCS: patch61: obsoleted USE_BSDGRP in favor of USE_BSD_SETPGRP
?RCS: patch61: another unit now also defines a USE_BSD_GETPGRP
?RCS: patch61: fallback for test program failure improved
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  13:59:30  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:15:37  ram
?RCS: patch36: added
 'ldflags' to the test compile line (ADO)
?RCS: patch36: call ./usg explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setpgrp d_bsdsetpgrp: cat rm_try +cc +libs +ccflags \
 +ldflags Inlibc Guess Setvar i_unistd i_stdlib run
?MAKE: -pick add $@ %<
?S:d_setpgrp:
?S: This variable conditionally defines HAS_SETPGRP if setpgrp() is
?S: available to set the current process group.
?S:.
```

```
?S:d_bsdsetpgrp (d_bsdpgrp):
?S: This variable conditionally defines USE_BSD_SETPGRP if
?S: setpgrp needs two arguments whereas USG one needs none.
?S: See also d_setpgid for a POSIX interface.
?S:.
?C:HAS_SETPGRP (SETPGRP):
?C: This symbol, if defined, indicates that the setpgrp routine is
?C: available to set the current process group.
?C:.
?C:USE_BSD_SETPGRP (USE_BSDPGRP BSDPGRP):
?C: This symbol, if defined, indicates that setpgrp needs two
?C: arguments whereas USG one needs none.  See also HAS_SETPGID
?C: for
 a POSIX interface.
?C:.
?H:#$d_setpgrp HAS_SETPGRP  /**/
?H:#$d_bsdsetpgrp USE_BSD_SETPGRP /**/
?H:.
?T:xxx
?F:!try
?LINT:set d_setpgrp d_bsdsetpgrp
: see if setpgrp exists
set setpgrp d_setpgrp
eval $inlibc

@if USE_BSD_SETPGRP || d_bsdsetpgrp
case "$d_setpgrp" in
"$define")
 echo " "
 echo "Checking to see which flavor of setpgrp is in use..."
 $cat >try.c <<EOP
#include <stdio.h>
#$i_unistd I_UNISTD
#include <sys/types.h>
#ifdef I_UNISTD
#  include <unistd.h>
#endif
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
{
 if (getuid() == 0) {
  printf("(I see you are running Configure as super-user...)\n");
  setuid(1);
 }
#ifdef TRY_BSD_PGRP
```

```
 if (-1 == setpgrp(1, 1))
  exit(0);
#else
 if (setpgrp() != -1)
  exit(0);
#endif
 exit(1);
}
EOP
 if $cc -o try -DTRY_BSD_PGRP $ccflags $ldflags try.c $libs >/dev/null 2>&1 && $run ./try; then
  echo 'You have to use setpgrp(pid,pgrp) instead of setpgrp().' >&4
  val="$define"
 elif $cc -o try $ccflags $ldflags try.c $libs
 >/dev/null 2>&1 && $run ./try; then
  echo 'You have to use setpgrp() instead of setpgrp(pid,pgrp).' >&4
  val="$undef"
 else
  echo "(I can't seem to compile and run the test program.)"
  if ./usg; then
   xxx="a USG one, i.e. you use setpgrp()."
  else
   # SVR4 systems can appear rather BSD-ish.
   case "$i_unistd" in
   $undef)
    xxx="a BSD one, i.e. you use setpgrp(pid,pgrp)."
    val="$define"
    ;;
   $define)
    xxx="probably a USG one, i.e. you use setpgrp()."
    val="$undef"
    ;;
   esac
  fi
  echo "Assuming your setpgrp is $xxx" >&4
 fi
 ;;
*) val="$undef";;
esac
set d_bsdsetpgrp
eval $setvar
$rm_try
@end
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_setpgrp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_PRId64 d_PRIi64 d_PRIu64 d_PRIo64 d_PRIx64 d_PRIXU64 \
 sPRId64 sPRIi64 sPRIu64 sPRIo64 sPRIx64 sPRIXU64: \
 quadtype i_inttypes test cat rm_try Setvar Compile run
?MAKE: -pick add $@ %<
?S:d_PRId64:
?S: This variable conditionally defines the PERL_PRId64 symbol, which
?S: indicates that stdio has a symbol to print 64-bit decimal numbers.
?S:.
?S:d_PRIi64:
?S: This variable conditionally defines the PERL_PRIi64 symbol, which
?S: indicates that stdio has a symbol to print 64-bit decimal numbers.
?S:.
?S:d_PRIu64:
?S: This variable conditionally defines the PERL_PRIu64 symbol, which
?S: indicates that stdio has a symbol to print 64-bit unsigned decimal
?S: numbers.
?S:.
?S:d_PRIo64:
?S: This variable
 conditionally defines the PERL_PRIo64 symbol, which
?S: indicates that stdio has a symbol to print 64-bit octal numbers.
?S:.
?S:d_PRIx64:
?S: This variable conditionally defines the PERL_PRIx64 symbol, which
?S: indicates that stdio has a symbol to print 64-bit hexadecimal numbers.
?S:.
?S:d_PRIXU64:
?S: This variable conditionally defines the PERL_PRIXU64 symbol, which
?S: indicates that stdio has a symbol to print 64-bit hExADECimAl numbers.
?S: The 'U' in the name is to separate this from d_PRIx64 so that even
?S: case-blind systems can see the difference.
?S:.
?S:sPRId64:
?S: This variable, if defined, contains the string used by stdio to
?S: format 64-bit decimal numbers (format 'd') for output.
?S:.
?S:sPRIi64:
?S: This variable, if defined, contains the string used by stdio to
?S: format 64-bit decimal numbers (format 'i') for output.
?S:.
?S:sPRIu64:
```

```
?S: This variable, if defined, contains the string used by stdio to
?S: format 64-bit unsigned decimal numbers (format 'u')
 for output.
?S:.
?S:sPRIo64:
?S: This variable, if defined, contains the string used by stdio to
?S: format 64-bit octal numbers (format 'o') for output.
?S:.
?S:sPRIx64:
?S: This variable, if defined, contains the string used by stdio to
?S: format 64-bit hexadecimal numbers (format 'x') for output.
?S:.
?S:sPRIXU64:
?S: This variable, if defined, contains the string used by stdio to
?S: format 64-bit hExADECimAl numbers (format 'X') for output.
?S: The 'U' in the name is to separate this from sPRIx64 so that even
?S: case-blind systems can see the difference.
?S:.
?C:PERL_PRId64:
?C: This symbol, if defined, contains the string used by stdio to
?C: format 64-bit decimal numbers (format 'd') for output.
?C:.
?C:PERL_PRIi64:
?C: This symbol, if defined, contains the string used by stdio to
?C: format 64-bit decimal numbers (format 'i') for output.
?C:.
?C:PERL_PRIu64:
?C: This symbol, if defined, contains the string used by stdio to
?C: format 64-bit unsigned decimal numbers (format 'u')
 for output.
?C:.
?C:PERL_PRIo64:
?C: This symbol, if defined, contains the string used by stdio to
?C: format 64-bit octal numbers (format 'o') for output.
?C:.
?C:PERL_PRIx64:
?C: This symbol, if defined, contains the string used by stdio to
?C: format 64-bit hexadecimal numbers (format 'x') for output.
?C:.
?C:PERL_PRIXU64:
?C: This symbol, if defined, contains the string used by stdio to
?C: format 64-bit hExADECimAl numbers (format 'X') for output.
?C:.
?H:#$d_PRId64 PERL_PRId64 $sPRId64 /**/
?H:#$d_PRIi64 PERL_PRIi64 $sPRIi64 /**/
?H:#$d_PRIu64 PERL_PRIu64 $sPRIu64 /**/
?H:#$d_PRIo64 PERL_PRIo64 $sPRIo64 /**/
?H:#$d_PRIx64 PERL_PRIx64 $sPRIx64 /**/
```

```
?H:#$d_PRIx64 PERL_PRIXU64 $sPRIXU64 /**/
?H:.
?T:yyy
?F:!try
: Check 64bit sizes
echo " "

if $test X"$quadtype" != X; then

echo "Checking how to print 64-bit integers..." >&4

if $test X"$sPRId64" = X -a X"$quadtype" = Xint; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
 int q = 12345678901;

 printf("%ld\n", q);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  12345678901)
   sPRId64='"d"'; sPRIi64='"i"'; sPRIu64='"u"';
   sPRIo64='"o"'; sPRIx64='"x"'; sPRIXU64='"X"';
   echo "We will use %d."
   ;;
  esac
 fi
fi

if $test X"$sPRId64" = X -a X"$quadtype" = Xlong; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
 long q = 12345678901;
 printf("%ld\n", q);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  12345678901)
```

```
   sPRId64="'ld'"; sPRIi64="'li'"; sPRIu64="'lu'";
   sPRIo64="'lo'"; sPRIx64="'lx'"; sPRIXU64="'lX'";
   echo "We will use %ld."
   ;;
  esac
 fi
fi

if $test X"$sPRId64" = X -a X"$i_inttypes" = X"$define" -a X"$quadtype" = Xint64_t; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <inttypes.h>
#include <stdio.h>
int main() {
 int64_t q = 12345678901;
 printf("%" PRId64 "\n", q);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  12345678901)
   sPRId64=PRId64;
 sPRIi64=PRIi64; sPRIu64=PRIu64;
   sPRIo64=PRIo64; sPRIx64=PRIx64; sPRIXU64=PRIXU64;
   echo "We will use the C9X style."
   ;;
  esac
 fi
fi

if $test X"$sPRId64" = X -a X"$quadtype" != X; then
 $cat >try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
int main() {
 $quadtype q = 12345678901;
 printf("%Ld\n", q);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  12345678901)
   sPRId64="'Ld'"; sPRIi64="'Li'"; sPRIu64="'Lu'";
   sPRIo64="'Lo'"; sPRIx64="'Lx'"; sPRIXU64="'LX'";
```

```
   echo "We will use %Ld."
   ;;
  esac
 fi
fi

if $test X"$sPRId64" = X -a X"$quadtype" = X"long long"; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
 long long q = 12345678901LL; /* AIX cc requires the LL suffix. */
 printf("%lld\n", q);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  12345678901)
   sPRId64='"lld"'; sPRIi64='"lli"'; sPRIu64='"llu"';
   sPRIo64='"llo"'; sPRIx64='"llx"';
 sPRIXU64='"llX"';
   echo "We will use the %lld style."
   ;;
  esac
 fi
fi

if $test X"$sPRId64" = X -a X"$quadtype" != X; then
 $cat >try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
int main() {
 $quadtype q = 12345678901;
 printf("%qd\n", q);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  12345678901)
   sPRId64='"qd"'; sPRIi64='"qi"'; sPRIu64='"qu"';
   sPRIo64='"qo"'; sPRIx64='"qx"'; sPRIXU64='"qX"';
   echo "We will use %qd."
   ;;
  esac
```

```
 fi
fi

if $test X"$sPRId64" = X; then
 echo "Cannot figure out how to print 64-bit integers." >&4
fi
$rm_try

fi

case "$sPRId64" in
") d_PRId64="$undef"; d_PRIi64="$undef"; d_PRIu64="$undef";
 d_PRIo64="$undef"; d_PRIx64="$undef"; d_PRIXU64="$undef";
 ;;
*) d_PRId64="$define"; d_PRIi64="$define"; d_PRIu64="$define";
 d_PRIo64="$define"; d_PRIx64="$define"; d_PRIXU64="$define";
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/quadfio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isnanl: Inlibc
?MAKE: -pick add $@ %<
?S:d_isnanl:
?S: This variable conditionally defines the HAS_ISNANL symbol, which
?S: indicates to the C program that the isnanl() routine is available.
?S:.
?C:HAS_ISNANL:
?C: This symbol, if defined, indicates that the isnanl routine is
?C: available to check whether a long double is a NaN.
?C:.
?H:#$d_isnanl HAS_ISNANL  /**/
?H:.
?LINT:set d_isnanl
: see if isnanl exists
set isnanl d_isnanl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_isnanl.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: mallocsrc.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:10:26  ram
?RCS: patch61: added support for Free_t, the type of free()
?RCS: patch61: replaced .o with $_o all over the place
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:10:46  ram
?RCS: patch23: added support for MYMALLOC, mainly  for perl5 (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:12  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:mallocsrc mallocobj usemymalloc malloctype d_mymalloc \
 freetype: Myread \
 Oldconfig
 package Guess Setvar rm cat +cc +ccflags Findhdr \
 i_malloc i_stdlib sed libs _o ptrsize
?MAKE: -pick add $@ %<
?X: Put near top so that other tests don't erroneously include
?X: -lmalloc.  --AD  22 June 1998
?Y:TOP
?S:usemymalloc:
?S: This variable contains y if the malloc that comes with this package
?S: is desired over the system's version of malloc.  People often include
?S: special versions of malloc for effiency, but such versions are often
?S: less portable.  See also mallocsrc and mallocobj.
?S: If this is 'y', then -lmalloc is removed from $libs.
?S:.
?S:mallocsrc:
?S: This variable contains the name of the malloc.c that comes with
?S: the package, if that malloc.c is preferred over the system malloc.
?S: Otherwise the value is null.  This variable is intended for generating
?S: Makefiles.
?S:.
```

```
?S:d_mymalloc:
?S: This variable conditionally defines MYMALLOC in case other parts
?S: of the source want to take special action if MYMALLOC is used.
?S: This may include different sorts
 of profiling or error detection.
?S:.
?S:mallocobj:
?S: This variable contains the name of the malloc.o that this package
?S: generates, if that malloc.o is preferred over the system malloc.
?S: Otherwise the value is null.  This variable is intended for generating
?S: Makefiles.  See mallocsrc.
?S:.
?S:freetype:
?S: This variable contains the return type of free().  It is usually
?S: void, but occasionally int.
?S:.
?S:malloctype:
?S: This variable contains the kind of ptr returned by malloc and realloc.
?S:.
?C:Free_t:
?C: This variable contains the return type of free().  It is usually
?C: void, but occasionally int.
?C:.
?C:Malloc_t (MALLOCPTRTYPE):
?C: This symbol is the type of pointer returned by malloc and realloc.
?C:.
?H:#define Malloc_t $malloctype   /**/
?H:#define Free_t $freetype   /**/
?H:.
?C:MYMALLOC:
?C: This symbol, if defined, indicates that we're using our own malloc.
?C:.
?H:#$d_mymalloc MYMALLOC   /**/
?H:.
?LINT:change libs
?X: Cannot test for mallocsrc; it
 is the unit's name and there is a bug in
?X: the interpreter which defines all the names, even though they are not used.
@if mallocobj
: determine which malloc to compile in
echo " "
case "$usemymalloc" in
[yY]*|true|$define) dflt='y' ;;
[nN]*|false|$undef) dflt='n' ;;
*)
 case "$ptrsize" in
 4) dflt='y' ;;
 *) dflt='n' ;;
```

```
 esac
 ;;
esac
rp="Do you wish to attempt to use the malloc that comes with $package?"
. ./myread
usemymalloc="$ans"
case "$ans" in
y*|true)
 usemymalloc='y'
 mallocsrc='malloc.c'
 mallocobj="malloc$_o"
 d_mymalloc="$define"
?X: Maybe libs.U should be dependent on mallocsrc.U, but then
?X: most packages that use dist probably don't supply their own
?X: malloc, so this is probably an o.k. comprpomise
 case "$libs" in
 *-lmalloc*)
  : Remove malloc from list of libraries to use
  echo "Removing unneeded -lmalloc from library list" >&4
  set `echo X $libs | $sed -e 's/-lmalloc / /' -e 's/-lmalloc$//'`
  shift
  libs="$*"
  echo "libs = $libs" >&4
  ;;
 esac
 ;;
*)
 usemymalloc='n'
 mallocsrc=''
 mallocobj=''
 d_mymalloc="$undef"
 ;;
esac

@end
@if
 MALLOCPTRTYPE || Malloc_t || Free_t
: compute the return types of malloc and free
echo " "
$cat >malloc.c <<END
#$i_malloc I_MALLOC
#$i_stdlib I_STDLIB
#include <stdio.h>
#include <sys/types.h>
#ifdef I_MALLOC
#include <malloc.h>
#endif
#ifdef I_STDLIB
```

```
#include <stdlib.h>
#endif
#ifdef TRY_MALLOC
void *malloc();
#endif
#ifdef TRY_FREE
void free();
#endif
END
@if MALLOCPTRTYPE || Malloc_t
case "$malloctype" in
")
 if $cc $ccflags -c -DTRY_MALLOC malloc.c >/dev/null 2>&1; then
  malloctype='void *'
 else
  malloctype='char *'
 fi
 ;;
esac
echo "Your system wants malloc to return '$malloctype', it would seem." >&4
@end

@if Free_t
case "$freetype" in
")
 if $cc $ccflags -c -DTRY_FREE malloc.c >/dev/null 2>&1; then
  freetype='void'
 else
  freetype='int'
 fi
 ;;
esac
echo "Your system uses $freetype free(), it would seem." >&4
@end
$rm -f malloc.[co]
@end
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/mallocsrc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysfile.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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```

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysfile.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:11:36  ram
?RCS: patch56: removed <> characters from comment, per metalint suggestion
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:01:23  ram
?RCS: patch6: added default for i_sysfile
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_sysfile: h_sysfile Inhdr Setvar
?MAKE: -pick add $@ %<
?S:i_sysfile:
?S: This variable conditionally defines
 the I_SYS_FILE symbol, and indicates
?S: whether a C program should include <sys/file.h> to get R_OK and friends.
?S:.
?C:I_SYS_FILE (I_SYSFILE):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/file.h> to get definition of R_OK and friends.
?C:.
?H:#$i_sysfile I_SYS_FILE  /**/
?H:.
?T:val
?D:i_sysfile="
?LINT:change h_sysfile
?LINT:set i_sysfile
: see if this is a sys/file.h system
val="
set sys/file.h val
eval $inhdr

: do we need to include sys/file.h ?
case "$val" in
"$define")
 echo " "
 if $h_sysfile; then
  val="$define"
  echo "We'll be including <sys/file.h>." >&4
 else
  val="$undef"
  echo "We won't be including <sys/file.h>." >&4
 fi
 ;;
```

```
*)
 h_sysfile=false
 ;;
esac
set i_sysfile
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/i_sysfile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setsent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_setsent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setsent: Inlibc
?MAKE: -pick add $@ %<
?S:d_setsent:
?S: This variable conditionally defines HAS_SETSERVENT if setservent() is
?S: available.
?S:.
?C:HAS_SETSERVENT:
?C: This symbol, if defined, indicates that the setservent() routine is
?C: available.
?C:.
?H:#$d_setsent HAS_SETSERVENT  /**/
?H:.
?LINT:set d_setsent
: see if setservent exists
set
 setservent d_setsent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_setsent.U

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```
?RCS: $Id$
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getitimer: Inlibc
?MAKE: -pick add $@ %<
?S:d_getitimer:
?S: This variable conditionally defines the HAS_GETITIMER symbol, which
?S: indicates to the C program that the getitimer() routine is available.
?S:.
?C:HAS_GETITIMER:
?C: This symbol, if defined, indicates that the getitimer routine is
?C: available to return interval timers.
?C:.
?H:#$d_getitimer HAS_GETITIMER  /**/
?H:.
?LINT:set d_getitimer
: see if getitimer exists
set getitimer d_getitimer
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_getitimer.U
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```
?RCS: $Id: so.U 1 2006-08-24 12:32:52Z rmanfredi $
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: so.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:30:04  ram
?RCS: patch36: now tells user how he can suppress shared lib lookup (ADO)
?RCS: patch36: removed echo at the top, since it's now in the here-doc (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:07:02  ram
?RCS: patch30: created
```

```
?RCS:
?X:
?X: This unit computes the shared-object / shared-lib extension
?X:
?MAKE:so d_libname_unique: test libpth Loc Myread Oldconfig cat Setvar
?MAKE: -pick add $@ %<
?S:so:
?S: This
 variable holds the extension used to identify shared libraries
?S: (also known as shared objects) on the system. Usually set to 'so'.
?S:.
?S:d_libname_unique:
?S: This variable is defined if the target system insists on unique
?S: basenames for shared library files. This is currently true on Android,
?S: false everywhere else we know of.
?S: Defaults to 'undef'.
?S:.
?LINT:set d_libname_unique
?T: xxx
: compute shared library extension
case "$so" in
")
 if xxx=`./loc libc.sl X $libpth`; $test -f "$xxx"; then
  dflt='sl'
 else
  dflt='so'
 fi
 ;;
*) dflt="$so";;
esac
$cat <<EOM

On some systems, shared libraries may be available.  Answer 'none' if
you want to suppress searching of shared libraries for the remainder
of this configuration.

EOM
rp='What is the file extension used for shared libraries?'
. ./myread
so="$ans"

: Does target system insist that shared library basenames are unique
$cat << EOM

Some dynamic loaders assume that the *basename* of shared library
 filenames
are globally unique.  We'll default this to undef as we assume your system
is not this weird. Set to defined if you're on one of them.
```

```
EOM

dflt='n'
rp='Make shared library basenames unique?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*)   val="$undef"  ;;
esac
set d_libname_unique
eval $setvar

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/so.U
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_casti32.U,v $
?RCS: Revision 3.0.1.3  1995/05/12  12:10:45  ram
?RCS: patch54: made sure cc and ccflags are conditional dependencies
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:09:37  ram
?RCS: patch36: declare signal handler correctly (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:06  ram
?RCS: patch32: created by ADO
?RCS:
?X:
?X: Can the compiler cast large floats to 32-bit integers?
?X:
?MAKE:d_casti32: cat
 +cc +ccflags rm_try intsize Setvar test signal_t
?MAKE: -pick add $@ %<
?S:d_casti32:
?S: This variable conditionally defines CASTI32, which indicates
```

```
?S: whether the C compiler can cast large floats to 32-bit ints.
?S:.
?C:CASTI32:
?C: This symbol is defined if the C compiler can cast negative
?C: or large floating point numbers to 32-bit ints.
?C:.
?T:xxx yyy
?H:#$d_casti32 CASTI32  /**/
?H:.
?F:!try
?LINT:set d_casti32
: check for ability to cast large floats to 32-bit ints.
echo " "
echo 'Checking whether your C compiler can cast large floats to int32.' >&4
if $test "$intsize" -eq 4; then
 xxx=int
else
 xxx=long
fi
$cat >try.c <<EOCP
#include <sys/types.h>
#include <signal.h>
$signal_t blech() { exit(3); }
int main()
{
 $xxx i32;
 double f;
 int result = 0;
 signal(SIGFPE, blech);

 f = (double) 0x7fffffff;
 f = 10 * f;
 i32  = ($xxx) f;

 if (i32 != ($xxx) f)
  result |= 1;
 exit(result);
}
EOCP
if $cc $ccflags -o try try.c >/dev/null 2>&1; then
 ./try
 yyy=$?
else
 echo "(I can't
 seem to compile the test program--assuming it can't)"
 yyy=1
fi
case "$yyy" in
```

```
0) val="$define"
 echo "Yup, it can."
 ;;
*) val="$undef"
 echo "Nope, it can't."
 ;;
esac
set d_casti32
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_casti32.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Thomas Neumann <tom@smart.bo.open.de>
?RCS:
?RCS: $Log: Findhdr.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  15:53:08  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:03:56  ram
?RCS: patch23: cppminus must be after other cppflags, not before
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a findhdr script which is used to locate the header
?X: files
 in $usrinc or other stranger places using cpp capabilities. The
?X: script is given an include file base name, like 'stdio.h' or 'sys/file.h'
?X: and it returns the full path of the include file and a zero status or an
?X: empty string with an error status if the file could not be located.
?X:
?MAKE:Findhdr: grep test tr rm +usrinc awk cat startsh \
 cppstdin cppminus +cppflags eunicefix osname
```

```
?MAKE: -pick add $@ %<
?LINT:define fieldn
?S:fieldn:
?S: This variable is used internally by Configure. It contains the position
?S: of the included file name in cpp output. That is to say, when cpp
?S: pre-processes a #include <file> line, it replaces it by a # line which
?S: contains the original position in the input file and the full name of
?S: included file, between "quotes".
?S:.
?V:fieldn
?F:./findhdr !fieldn
?T:cline pos wanted name awkprg cppfilter testaccess status usrincdir
: determine filename position in cpp output
echo " "
echo "Computing filename position in cpp output for #include
 directives..." >&4
echo '#include <stdio.h>' > foo.c
case "$osname" in
vos)
 testaccess=-e
?X: VOS: path component separator is >
 cppfilter="tr '\\\\>' '/' |"
 ;;
*)
 testaccess=-r
 cppfilter="
 ;;
esac
$cat >fieldn <<EOF
$startsh
$cppstdin $cppflags $cppminus <foo.c 2>/dev/null | \
$grep '^[  ]*#.*stdio\.h' | \
while read cline; do
 pos=1
 set \$cline
 while $test \$# -gt 0; do
  if $test $testaccess \`echo \$1 | $tr -d ""\`; then
   echo "\$pos"
   exit 0
  fi
  shift
  pos=\`expr \$pos + 1\`
 done
done
EOF
chmod +x fieldn
fieldn=`./fieldn`
$rm -f foo.c fieldn
```

```
case $fieldn in
") pos='???';;
1) pos=first;;
2) pos=second;;
3) pos=third;;
*) pos="${fieldn}th";;
esac
echo "Your cpp writes the filename in the $pos field of the line."

?X: To locate a header file, we cannot simply check for $usrinc/file.h, since
?X: some machine have the headers in weird places and our only hope is that
?X: the C pre-processor will know how to find those headers. Thank you NexT!
: locate header file
$cat
 >findhdr <<EOF
$startsh
wanted=\$1
name=''
for usrincdir in $usrinc; do
 if test -f \$usrincdir/\$wanted; then
  echo "\$usrincdir/\$wanted"
  exit 0
 fi
done
awkprg='{ print \$$fieldn }'
echo "#include <\$wanted>" > foo\$\$.c
$cppstdin $cppminus $cppflags < foo\$\$.c 2>/dev/null | \
$cppfilter $grep "^[  ]*#.*\$wanted" | \
while read cline; do
 name=\`echo \$cline | $awk "\$awkprg" | $tr -d '"'\`
 case "\$name" in
 *[/\\\]\$wanted) echo "\$name"; exit 1;;
 *[\\\/]\$wanted) echo "\$name"; exit 1;;
 *) exit 2;;
 esac
done
?X: status = 0: grep returned 0 lines, case statement not executed
?X: status = 1: headerfile found
?X: status = 2: while loop executed, no headerfile found
status=\$?
$rm -f foo\$\$.c
if test \$status -eq 1; then
 exit 0
fi
exit 1
EOF
chmod +x findhdr
$eunicefix findhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Findhdr.U
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```
?RCS: $Id: d_endnetent_r.U,v 0RCS:
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?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_endnetent_r endnetent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_endnetent_r:
?S: This variable conditionally defines the HAS_ENDNETENT_R symbol,
?S: which indicates to the C program that the endnetent_r()
?S: routine is available.
?S:.
?S:endnetent_r_proto:
?S: This variable encodes the prototype of endnetent_r.
?S: It is zero if d_endnetent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endnetent_r
?S: is defined.
?S:.
?C:HAS_ENDNETENT_R:
?C: This symbol, if defined, indicates that the endnetent_r routine
?C: is
 available to endnetent re-entrantly.
?C:.
?C:ENDNETENT_R_PROTO:
?C: This symbol encodes the prototype of endnetent_r.
?C: It is zero if d_endnetent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endnetent_r
?C: is defined.
?C:.
?H:#$d_endnetent_r HAS_ENDNETENT_R /**/
?H:#define ENDNETENT_R_PROTO $endnetent_r_proto /**/
?H:.
?T:try hdrs d_endnetent_r_proto
: see if endnetent_r exists
set endnetent_r d_endnetent_r
eval $inlibc
case "$d_endnetent_r" in
"$define")
```

```
hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
case "$d_endnetent_r_proto:$usethreads" in
":define") d_endnetent_r_proto=define
 set d_endnetent_r_proto endnetent_r $hdrs
 eval $hasproto ;;
*) ;;
esac
case "$d_endnetent_r_proto" in
define)
case "$endnetent_r_proto" in
"|0) try='int endnetent_r(struct netent_data*);'
./protochk "$extern_C $try" $hdrs && endnetent_r_proto=I_D ;;
esac
case "$endnetent_r_proto" in
"|0) try='void endnetent_r(struct netent_data*);'
./protochk
"$extern_C $try" $hdrs && endnetent_r_proto=V_D ;;
esac
case "$endnetent_r_proto" in
"|0) d_endnetent_r=undef
 endnetent_r_proto=0
 echo "Disabling endnetent_r, cannot determine prototype." >&4 ;;
* ) case "$endnetent_r_proto" in
 REENTRANT_PROTO*) ;;
 *) endnetent_r_proto="REENTRANT_PROTO_$endnetent_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "endnetent_r has no prototype, not using it." >&4 ;;
 esac
 d_endnetent_r=undef
 endnetent_r_proto=0
 ;;
esac
;;
*) endnetent_r_proto=0
;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_endnetent_r.U
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?RCS: Id
?RCS:

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: man3dir.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:10:34  ram
?RCS: patch61: created
?RCS:
?X:
?X: This was originally specific to perl5.  Since perl5 has man pages that
?X: go in both man1/ and man3/ directories, we need both man1dir
?X: and man3dir.  This unit is basically dist's mansrc.U with
?X: man3 used instead of man everywhere.
?X: I then added various tests because perl5 has *lots* of man3
?X: pages with long file names. -- ADO
?X:
?MAKE:man3dir
 man3direxp man3ext installman3dir: afs cat nroff Loc Oldconfig \
 sed man1dir spackage package Getfile prefix Prefixit Prefixup \
 d_flexfnam privlib Myread
?MAKE: -pick add $@ %<
?Y:TOP
?S:man3dir:
?S: This variable contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?S:man3direxp:
?S: This variable is the same as the man3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?S:installman3dir:
?S: This variable is really the same as man3direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man3direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:man3ext:
?S: This variable contains the extension that the manual
 page should
?S: have: one of 'n', 'l', or '3'.  The Makefile must supply the '.'.
?S: See man3dir.
```

```
?S:.
: determine where library module manual pages go
set man3dir man3dir none
eval $prefixit
$cat <<EOM

$spackage has manual pages for many of the library modules.
EOM

case "$nroff" in
nroff)
 $cat <<'EOM'
However, you don't have nroff, so they're probably useless to you.
EOM
 case "$man3dir" in
 ") man3dir="none";;
 esac;;
esac

case "$d_flexfnam" in
undef)
 $cat <<'EOM'
However, your system can't handle the long file names like File::Basename.3.
EOM
 case "$man3dir" in
 ") man3dir="none";;
 esac;;
esac

echo "If you don't want the manual sources installed, answer 'none'."
?X: We dont use /usr/local/man/man3 because some man programs will
?X: only show the /usr/local/man/man3 contents, and not the system ones,
?X: thus man less will show the perl module less.pm, but not the system
?X: less command.  We might also conflict with TCL man pages.
?X: However, something like /opt/perl/man/man3
 is fine.
case "$man3dir" in
") case "$prefix" in
 *$package*) dflt=`echo $man1dir |
   $sed -e 's/man1/man3/g' -e 's/man\.1/man\.3/g'` ;;
 *) dflt="$privlib/man/man3" ;;
 esac
 ;;
' ') dflt=none;;
*) dflt="$man3dir" ;;
esac
echo " "
```

```
fn=dn+~
rp="Where do the $package library man pages (source) go?"
. ./getfile
if test "X$man3direxp" != "X$ansexp"; then
 installman3dir="
fi

man3dir="$ans"
man3direxp="$ansexp"
case "$man3dir" in
") man3dir=' '
 installman3dir=";;
esac
if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
manual pages reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installman3dir" in
 ") dflt=`echo $man3direxp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installman3dir";;
 esac
 fn=de~
 rp='Where will man pages be installed?'
 . ./getfile
 installman3dir="$ans"
else
 installman3dir="$man3direxp"
fi

: What suffix
 to use on installed man pages

case "$man3dir" in
' ')
 man3ext='0'
 ;;
*)
 rp="What suffix should be used for the $package library man pages?"
 case "$man3ext" in
 ") case "$man3dir" in
  *3)  dflt=3 ;;
  *3p) dflt=3p ;;
  *3pm) dflt=3pm ;;
  *l) dflt=l;;
```

```
  *n) dflt=n;;
  *o) dflt=o;;
  *p) dflt=p;;
  *C) dflt=C;;
  *L) dflt=L;;
  *L3) dflt=L3;;
  *) dflt=3;;
  esac
  ;;
 *) dflt="$man3ext";;
 esac
 . ./myread
 man3ext="$ans"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/man3dir.U
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```
?RCS: $Id: dlsrc.U,v$
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?RCS:
?RCS: $Log: dlext.U,v $
?RCS:
?X:  hpux support thanks to Jeff Okamoto <okamoto@hpcc101.corp.hp.com>
?X:
?X:  To create a shared library, you must compile ALL source files in the
?X:  library with +z (or possibly +Z if the library is whopping huge),
?X:  then link the library with -b.  Example:
?X:   cc -c +z module_a.c
?X:   cc -c +z module_b.c
?X:   ld -b module_a.o module_b.o -o module.sl
?X:
?MAKE:dlext: \
 Getfile Myread cat usedl so
?MAKE: -pick add $@ %<
?Y:BOTTOM
?S:dlext:
?S: This variable contains the extension that is to be used for the
?S: dynamically loaded modules that perl generates.
?S:.
: Check what extension to use for shared libs
```

```
case "$usedl" in
$define|y|true)
 $cat <<
 EOM

On a few systems, the dynamically loaded modules that perl generates and uses
will need a different extension than shared libs. The default will probably
be appropriate.

EOM
 case "$dlext" in
 ") dflt="$so" ;;
 *) dflt="$dlext" ;;
 esac
 rp='What is the extension of dynamically loaded modules'
 . ./myread
 dlext="$ans"
 ;;
*)
 dlext="none"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/dlext.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Configdir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Configdir.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  14:58:36  ram
?RCS: patch61: have README explicitly mention the package name
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:49  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:Configdir: package
?MAKE: -pick add $@ %<
: create .config dir to save info across Configure sessions
```

```
test -d ../.config || mkdir ../.config
cat >../.config/README <<EOF
This directory created by Configure to save
 information that should
persist across sessions for $package.

You may safely delete it if you wish.
EOF
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/Configdir.U
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```
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?RCS:
?MAKE:d_getmnt: Inlibc
?MAKE: -pick add $@ %<
?S:d_getmnt:
?S: This variable conditionally defines the HAS_GETMNT symbol, which
?S: indicates to the C program that the getmnt() routine is available
?S: to retrieve one or more mount info blocks by filename.
?S:.
?C:HAS_GETMNT:
?C: This symbol, if defined, indicates that the getmnt routine is
?C: available to get filesystem mount info by filename.
?C:.
?H:#$d_getmnt HAS_GETMNT  /**/
?H:.
?LINT:set d_getmnt
: see if getmnt exists
set getmnt d_getmnt
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_getmnt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_sresuproto: Hasproto i_unistd
?MAKE: -pick add $@ %<
?S:d_sresuproto:
?S: This variable conditionally defines the HAS_SETRESUID_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the setresuid() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_SETRESUID_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the setresuid() function.  Otherwise, it is up
?C: to the program to supply one.  Good guesses are
?C:  extern
 int setresuid(uid_t ruid, uid_t euid, uid_t suid);
?C:.
?H:#$d_sresuproto HAS_SETRESUID_PROTO /**/
?H:.
?LINT:set d_sresuproto
: see if prototype for setresuid is available
echo " "
set d_sresuproto setresuid $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_sresuproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sigvec.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sigvec.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:45:37  ram
?RCS: patch61: there is now a separate routine for sigaction()
?RCS:
```

```
?RCS: Revision 3.0  1993/08/18  12:07:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X: d_sigvec.U, from d_ftime.U 1.0
?X:
?MAKE:d_sigvec d_sigvectr d_sigintrp: Csym Inlibc Setvar
?MAKE: -pick add $@ %<
?S:d_sigvec:
?S: This variable conditionally defines the HAS_SIGVEC symbol, which indicates
?S: that BSD
 reliable signals are supported.
?S:.
?S:d_sigvectr:
?S: This variable conditionally defines the HAS_SIGVECTOR symbol, which
?S: indicates that the sigvec() routine is called sigvector() instead, for
?S: reasons known only to Hewlett-Packard.
?S:.
?S:d_sigintrp:
?S: This variable conditionally defines the HAS_SIGINTRP symbol, which
?S: indicates that the siginterrupt() routine is available.
?S:.
?C:HAS_SIGVEC (SIGVEC):
?C: This symbol, if defined, indicates that BSD reliable signals are
?C: supported.
?C:.
?C:HAS_SIGVECTOR (SIGVECTOR):
?C: This symbol, if defined, indicates that the sigvec() routine is called
?C: sigvector() instead, and that sigspace() is provided instead of
?C: sigstack().  This is probably only true for HP-UX.
?C:.
?C:HAS_SIGINTRP (SIGINTRP):
?C: This symbol, if defined, indicates that the siginterrupt() routine
?C: is available.
?C:.
?H:#$d_sigvec HAS_SIGVEC /**/
?H:#$d_sigvectr HAS_SIGVECTOR /**/
?H:#$d_sigintrp HAS_SIGINTRP /**/
?H:.
?T:val
?LINT:set d_sigvec d_sigintrp
@if
 d_sigvectr || d_sigvec || HAS_SIGVEC || HAS_SIGVECTOR
: see if sigvector exists -- since sigvec will match the substring
echo " "
if set sigvector val -f d_sigvectr; eval $csym; $val; then
 echo 'sigvector() found--you must be running HP-UX.' >&4
 val="$define"; set d_sigvectr; eval $setvar
 val="$define"; set d_sigvec; eval $setvar
```

```
else
: try the original name
 d_sigvectr="$undef"
 if set sigvec val -f d_sigvec; eval $csym; $val; then
  echo 'sigvec() found.' >&4
  val="$define"; set d_sigvec; eval $setvar
 else
  echo 'sigvec() not found--race conditions with signals may occur.' >&4
  val="$undef"; set d_sigvec; eval $setvar
 fi
fi

@end
@if d_sigintrp || HAS_SIGINTRP
: see if we have siginterrupt
set siginterrupt d_sigintrp
eval $inlibc

@end
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_sigvec.U
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```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: so.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:30:04  ram
?RCS: patch36: now tells user how he can suppress shared lib lookup (ADO)
?RCS: patch36: removed echo at the top, since it's now in the here-doc (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:07:02  ram
?RCS: patch30: created
?RCS:
?X:
?X: This unit computes the shared-object / shared-lib extension
?X:
?MAKE:so: test libpth Loc Myread Oldconfig cat
?MAKE: -pick add $@ %<
```

```
?S:so:
?S: This variable holds the extension used to identify
 shared libraries
?S: (also known as shared objects) on the system. Usually set to 'so'.
?S:.
?T: xxx
: compute shared library extension
case "$so" in
")
 if xxx=`./loc libc.sl X $libpth`; $test -f "$xxx"; then
  dflt='sl'
 else
  dflt='so'
 fi
 ;;
*) dflt="$so";;
esac
$cat <<EOM

On some systems, shared libraries may be available.  Answer 'none' if
you want to suppress searching of shared libraries for the remainder
of this configuration.

EOM
rp='What is the file extension used for shared libraries?'
. ./myread
so="$ans"
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/so.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_asinh: Inlibc
?MAKE: -pick add $@ %<
?S:d_asinh:
?S: This variable conditionally defines the HAS_ASINH symbol, which
?S: indicates to the C program that the asinh() routine is available.
?S:.
?C:HAS_ASINH:
?C: This symbol, if defined, indicates that the asinh routine is
?C: available to do the inverse hyperbolic sine function.
?C:.
?H:#$d_asinh HAS_ASINH  /**/
?H:.
```

```
?LINT:set d_asinh
: see if asinh exists
set asinh d_asinh
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_asinh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_shadow.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_shadow: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_shadow:
?S: This variable conditionally defines the I_SHADOW symbol, and indicates
?S: whether a C program should include <shadow.h>.
?S:.
?C:I_SHADOW:
?C: This symbol, if defined, indicates that <shadow.h> exists and
?C: should be included.
?C:.
?H:#$i_shadow I_SHADOW  /**/
?H:.
?LINT:set i_shadow
: see if this is a shadow.h system
set shadow.h i_shadow
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/i_shadow.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_tgamma: Inlibc
?MAKE: -pick add $@ %<
?S:d_tgamma:
?S: This variable conditionally defines the HAS_TGAMMA symbol, which
?S: indicates to the C program that the tgamma() routine is available
?S: for the gamma function.  See also d_lgamma.
```

```
?S:.
?C:HAS_TGAMMA:
?C: This symbol, if defined, indicates that the tgamma routine is
?C: available to do the gamma function. See also HAS_LGAMMA.
?C:.
?H:#$d_tgamma HAS_TGAMMA  /**/
?H:.
?LINT:set d_tgamma
: see if tgamma exists
set tgamma d_tgamma
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_tgamma.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: prototype.U,v $
?RCS: Revision 3.0.1.3  1994/05/06  15:11:49  ram
?RCS: patch23: ensure cc flags used when looking for prototype support
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:15:36  ram
?RCS: patch16: prototype handling macros now appear only when needed
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:03:12  ram
?RCS: patch6: defines were referring to non-existent VOID symbol
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:36  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:prototype:
 Myread Oldconfig cat +cc +ccflags rm Setvar
?MAKE: -pick add $@ %<
?S:prototype:
?S: This variable holds the eventual value of CAN_PROTOTYPE, which
?S: indicates the C compiler can handle funciton prototypes.
?S:.
?C:CAN_PROTOTYPE ~ %<:
```

```
?C: If defined, this macro indicates that the C compiler can handle
?C: function prototypes.
?C:.
?C:DOTS:
?C: This macro is used to specify the ... in function prototypes which
?C: have arbitrary additional arguments.
?C:.
?C:NXT_ARG:
?C: This macro is used to separate arguments in the declared argument list.
?C:.
?C:P_FUNC:
?C: This macro is used to declare "private" (static) functions.
?C: It takes three arguments: the function type and name, a parenthesized
?C: traditional (comma separated) argument list, and the declared argument
?C: list (in which arguments are separated with NXT_ARG, and additional
?C: arbitrary arguments are specified with DOTS).  For example:
?C:
?C:  P_FUNC(int foo, (bar, baz), int bar NXT_ARG char *baz[])
?C:.
?C:P_FUNC_VOID:
?C: This
 macro is used to declare "private" (static) functions that have
?C: no arguments.  The macro takes one argument: the function type and name.
?C: For example:
?C:
?C:  P_FUNC_VOID(int subr)
?C:.
?C:V_FUNC:
?C: This macro is used to declare "public" (non-static) functions.
?C: It takes three arguments: the function type and name, a parenthesized
?C: traditional (comma separated) argument list, and the declared argument
?C: list (in which arguments are separated with NXT_ARG, and additional
?C: arbitrary arguments are specified with DOTS).  For example:
?C:
?C:  V_FUNC(int main, (argc, argv), int argc NXT_ARG char *argv[])
?C:.
?C:V_FUNC_VOID:
?C: This macro is used to declare "public" (non-static) functions that have
?C: no arguments.  The macro takes one argument: the function type and name.
?C: For example:
?C:
?C:  V_FUNC_VOID(int fork)
?C:.
?C:_ (P):
?C: This macro is used to declare function parameters for folks who want
?C: to make declarations with prototypes using a
 different style than
?C: the above macros.  Use double parentheses.  For example:
```

```
?C:
?C:  int main _((int argc, char *argv[]));
?C:.
?H:?%<:#$prototype CAN_PROTOTYPE /**/
?H:?%<:#ifdef CAN_PROTOTYPE
?H:?NXT_ARG:#define NXT_ARG ,
?H:?DOTS:#define DOTS , ...
?H:?V_FUNC:#define V_FUNC(name, arglist, args)name(args)
?H:?P_FUNC:#define P_FUNC(name, arglist, args)static name(args)
?H:?V_FUNC_VOID:#define V_FUNC_VOID(name)name(void)
?H:?P_FUNC_VOID:#define P_FUNC_VOID(name)static name(void)
?H:?_:#define _(args) args
?H:?%<:#else
?H:?NXT_ARG:#define NXT_ARG ;
?H:?DOTS:#define DOTS
?H:?V_FUNC:#define V_FUNC(name, arglist, args)name arglist args;
?H:?P_FUNC:#define P_FUNC(name, arglist, args)static name arglist args;
?H:?V_FUNC_VOID:#define V_FUNC_VOID(name)name()
?H:?P_FUNC_VOID:#define P_FUNC_VOID(name)static name()
?H:?_:#define _(args) ()
?H:?%<:#endif
?H:.
?W:%<:NXT_ARG DOTS V_FUNC P_FUNC V_FUNC_VOID P_FUNC_VOID _
?LINT:set prototype
: Cruising for prototypes
echo " "
echo "Checking out
 function prototypes..." >&4
$cat >prototype.c <<'EOCP'
int main(int argc, char *argv[]) {
 exit(0);}
EOCP
if $cc $ccflags -c prototype.c >prototype.out 2>&1 ; then
 echo "Your C compiler appears to support function prototypes."
 val="$define"
else
 echo "Your C compiler doesn't seem to understand function prototypes."
 val="$undef"
fi
set prototype
eval $setvar
$rm -f prototype*
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/prototype.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_faststdio: Setvar \
 d_stdstdio d_stdio_ptr_lval d_stdio_cnt_lval d_stdio_ptr_lval_sets_cnt
?MAKE: -pick add $@ %<
?S:d_faststdio:
?S: This variable conditionally defines the HAS_FAST_STDIO symbol,
?S: which indicates to the C program that the "fast stdio" is available
?S: to manipulate the stdio buffers directly.
?S:.
?C:HAS_FAST_STDIO:
?C: This symbol, if defined, indicates that the "fast stdio"
?C: is available to manipulate the stdio buffers directly.
?C:.
?H:#$d_faststdio HAS_FAST_STDIO  /**/
?H:.
?LINT:set d_faststdio
: see if fast_stdio exists
val="$undef"
case "$d_stdstdio:$d_stdio_ptr_lval" in
"$define:$define")
 case "$d_stdio_cnt_lval$d_stdio_ptr_lval_sets_cnt" in
 *$define*)
  echo "You
 seem to have 'fast stdio' to directly manipulate the stdio buffers." >&4
  val="$define"
  ;;
 esac
 ;;
esac
set d_faststdio
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_faststdio.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dup2.C,v 3.0.1.1 1994/01/24 13:58:37 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
```

```
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*  as specified in the README file that comes with the distribution.
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*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* Original Author: Larry Wall <lwall@netlabs.com>
*
* $Log: dup2.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:37  ram
* patch16: created
*
*/
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/lib/C/fake/dup2.C
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_statblks.U,v 3.0 1993/08/18 12:07:29 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_statblks.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:29  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_statblks: Hasfield i_sysstat
?MAKE: -pick add $@ %<
?S:d_statblks:
?S: This variable conditionally defines USE_STAT_BLOCKS
?S: if this system has a stat structure declaring
?S: st_blksize and st_blocks.
?S:.
?C:USE_STAT_BLOCKS (STATBLOCKS):
?C: This symbol is defined if this system has a stat structure declaring
?C: st_blksize and st_blocks.
?C:.
?H:?%<:#ifndef
 USE_STAT_BLOCKS
?H:?%<:#$d_statblks USE_STAT_BLOCKS /**/
?H:?%<:#endif
```

```
?H:.
?LINT:set d_statblks
: see if stat knows about block sizes
echo " "
echo "Checking to see if your struct stat has st_blocks field..." >&4
set d_statblks stat st_blocks $i_sysstat sys/stat.h
eval $hasfield
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/modified/d_statblks.U
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```
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?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fseeko: Inlibc longsize
?MAKE: -pick add $@ %<
?S:d_fseeko:
?S: This variable conditionally defines the HAS_FSEEKO symbol, which
?S: indicates to the C program that the fseeko() routine is available.
?S:.
?C:HAS_FSEEKO:
?C: This symbol, if defined, indicates that the fseeko routine is
?C: available to fseek beyond 32 bits (useful for ILP32 hosts).
?C:.
?H:#$d_fseeko HAS_FSEEKO  /**/
?H:.
?LINT:set d_fseeko
: see if fseeko exists
set fseeko d_fseeko
eval $inlibc
case "$longsize" in
8) echo "(Your long is 64 bits, so you could use fseek.)" ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fseeko.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: fpu.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:10  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:fpu: test cat cc Myread
?MAKE: -pick add $@ %<
?S:fpu (fpunit):
?S: Set to be the compile flag for the local floating point unit.
?S:.
?C:FPU (FPUNIT):
?C: String containing the flags for the local floating point unit.
?C:.
?H:#define FPU "$fpu" /**/
?H:.
: see what floating point compile flags should be used.
fpu=''
if $test -r /dev/fpa; then
 $cat>fpa.c << GOOP
 main(){return(1);}
GOOP
 $cc
 -ffpa -o fpa fpa.c
 fpa > fpa.out 2>&1
 if $test ! -s fpa.out; then
  dflt='y'
  $cat <<'EOM'

You seem to have a sun fpa...  I can compile the code to use the fpa but it will
mean that the code can ONLY run on a machine with a fpa...

EOM
  rp="Should I compile for fpa?"
  . ./myread
  if $test $ans = "n"; then
   fpu=''
  else
   fpu='-ffpa'
  fi
 else
  $cat <<'EOM'
```

```
You have the fpa device but I can't seem to use it.  Maybe you should talk to
your sysadmin about this.  For now, I am not going to compile it in.

EOM
 fi
fi
if $test "$fpu" = ''; then
 if $test -r /usr/etc/mc68881version; then
  dflt='y'
  $cat <<'EOM'

There also seems to be the pieces for a 68881.  If I compile this in, it will
work on almost all Sun 3's except for a few Sun-3/50s without a 68881...

EOM
  rp="Should I compile for a 68881?"
  . ./myread
  if $test $ans = "y"; then
   fpu='-f68881'
  fi
 fi
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/fpu.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ttyname_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_ttyname_r ttyname_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_unistd extern_C
?MAKE: -pick add $@ %<
?S:d_ttyname_r:
?S: This variable conditionally defines the HAS_TTYNAME_R symbol,
?S: which indicates to the C program that the ttyname_r()
?S: routine is available.
?S:.
?S:ttyname_r_proto:
?S: This variable encodes the prototype of ttyname_r.
?S: It is zero if d_ttyname_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_ttyname_r
```

```
?S: is defined.
?S:.
?C:HAS_TTYNAME_R:
?C: This symbol, if defined, indicates that the ttyname_r routine
?C: is available to ttyname re-entrantly.
?C:.
?C:TTYNAME_R_PROTO:
?C: This
 symbol encodes the prototype of ttyname_r.
?C: It is zero if d_ttyname_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_ttyname_r
?C: is defined.
?C:.
?H:#$d_ttyname_r HAS_TTYNAME_R /**/
?H:#define TTYNAME_R_PROTO $ttyname_r_proto /**/
?H:.
?T:try hdrs d_ttyname_r_proto
: see if ttyname_r exists
set ttyname_r d_ttyname_r
eval $inlibc
case "$d_ttyname_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_unistd unistd.h"
 case "$d_ttyname_r_proto:$usethreads" in
 ":define") d_ttyname_r_proto=define
  set d_ttyname_r_proto ttyname_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_ttyname_r_proto" in
 define)
 case "$ttyname_r_proto" in
 "|0) try='int ttyname_r(int, char*, size_t);'
 ./protochk "$extern_C $try" $hdrs && ttyname_r_proto=I_IBW ;;
 esac
 case "$ttyname_r_proto" in
 "|0) try='int ttyname_r(int, char*, int);'
 ./protochk "$extern_C $try" $hdrs && ttyname_r_proto=I_IBI ;;
 esac
 case "$ttyname_r_proto"
 in
 "|0) try='char* ttyname_r(int, char*, int);'
 ./protochk "$extern_C $try" $hdrs && ttyname_r_proto=B_IBI ;;
 esac
 case "$ttyname_r_proto" in
 "|0) d_ttyname_r=undef
  ttyname_r_proto=0
  echo "Disabling ttyname_r, cannot determine prototype." >&4 ;;
```

```
 * ) case "$ttyname_r_proto" in
  REENTRANT_PROTO*) ;;
  *) ttyname_r_proto="REENTRANT_PROTO_$ttyname_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "ttyname_r has no prototype, not using it." >&4 ;;
  esac
  d_ttyname_r=undef
  ttyname_r_proto=0
  ;;
 esac
 ;;
*) ttyname_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_ttyname_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_NeWS.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_NeWS.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_news d_news0 d_newshome d_textcan: test rm Myread Getfile
?MAKE: -pick add $@ %<
?S:d_news:
?S: Set if running NeWS 1.1
?S:.
?S:d_news0:
?S: Set if running NeWS 1.0
?S:.
?S:d_newshome:
?S: Path to the top directory of the NeWS structure.
```

```
?S:.
?S:d_textcan:
?S: Path to where the textcan.ps stuff is...
?S:.
?C:HAS_NEWS1_1 (NEWS1_1):
?C: This
 symbol defined if running NeWS 1.1.
?C:.
?C:HAS_NEWS1_0 (NEWS1_0):
?C: This symbol defined if running NeWS 1.0.
?C:.
?C:TEXTCAN:
?C: Tells path to where the textcan.ps stuff is...
?C:.
?H:#$d_news HAS_NEWS1_1     /**/
?H:#$d_news0 HAS_NEWS1_0     /**/
?H:#define TEXTCAN $d_textcan /**/
?H:.
?INIT:: default path for NeWS
?INIT:d_newshome="/usr/NeWS"
?INIT:
: Check to see what version of NeWS is being run?
cd ..
echo " "
echo "Now for the interesting stuff... Lets see what kind of NeWS"
echo "they grow round here...."
echo " "
dflt='y'
if $test -d $d_newshome; then
 d_newshome=`(cd $d_newshome ; /bin/pwd)`
 echo "Ah...found myself a NeWS in $d_newshome..."
 dflt='y'
 rp="Is this the NeWS you want your children to grow up with?"
 . UU/myread
fi
while $test $ans = "n"; do
dflt=$d_newshome
fn=d
rp="Path to NeWS you want:"
. UU/getfile
d_newshome=$ans

echo " "
if $test ! -d $d_newshome/lib; then
 echo "ARG!  No lib directory in $d_newshome!!!"
 : heavy medicine.  I wonder what the disease
 is...
 $rm -f kit*isdone
```

```
 $rm -rf UU
 : bye bye
 set -t; echo "Sorry... no NeWS is bad news..."
fi

if $test -r $d_newshome/lib/NeWS/colors.ps ; then
 echo 'Ahh... your running NeWS 1.1!  Boy... that makes stuff easy....'
 echo " "
 d_news="$define"
 d_news0="$undef"
 if $test -r $d_newshome/lib/NeWS/textcan.ps; then
  d_textcan=$d_newshome/lib/NeWS
  echo "The textcan.ps stuff seems to be in : $d_textcan"
 else
  d_textcan=$d_newshome/clientsrc/client/nterm
  if $test ! -r $d_textcan/textcan.ps; then
   d_news="$undef"
   d_news0="$define"
   echo 'Hmm... must have been fooled... gotta be NeWS 1.1 beta!'
  else
   echo "The textcan.ps stuff seems to be in : $d_textcan"
  fi
 fi
else
 echo 'snif... snif... I smell the dilapidated smell of NeWS 1.0..'
 echo 'Some things will not work under NeWS 1.0...'
 d_news="$undef"
 d_news0="$define"
fi
cd UU
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_NeWS.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
```

```
?RCS: Original author Jarkko Hietaniemi <jhi@iki.fi>
?RCS: Merged into dist by Andy Dougherty  July 13, 1998
?RCS:
?MAKE:ebcdic: Compile Setvar cat rm_try run
?MAKE: -pick add $@ %<
?S:ebcdic:
?S: This variable conditionally defines EBCDIC if this
?S: system uses EBCDIC encoding.  Among other things, this
?S: means that the character ranges are not contiguous.
?S: See trnl.U
?S:.
?C:EBCDIC:
?C:     This symbol, if defined, indicates that this system uses
?C: EBCDIC
 encoding.
?C:.
?H:#$ebcdic EBCDIC   /**/
?H:.
?F:!try
?LINT:set ebcdic
: look whether system uses EBCDIC
echo " "
echo "Determining whether or not we are on an EBCDIC system..." >&4
$cat >try.c <<'EOM'
int main()
{
 if ('M'==0xd4) return 0;
 return 1;
}
EOM
val=$undef
set try
if eval $compile_ok; then
 if $run ./try; then
  echo "You seem to speak EBCDIC." >&4
  val="$define"
 else
  echo "Nope, no EBCDIC, probably ASCII or some ISO Latin. Or UTF-8." >&4
 fi
else
 echo "I'm unable to compile the test program." >&4
 echo "I'll assume ASCII or some ISO Latin. Or UTF8." >&4
fi
$rm_try
set ebcdic
eval $setvar
```

Found in path(s):

* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/ebcdic.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getcwd: Inlibc
?MAKE: -pick add $@ %<
?S:d_getcwd:
?S: This variable conditionally defines the HAS_GETCWD symbol, which
?S: indicates to the C program that the getcwd() routine is available
?S: to get the current working directory.
?S:.
?C:HAS_GETCWD :
?C: This symbol, if defined, indicates that the getcwd routine is
?C: available to get the current working directory.
?C:.
?H:#$d_getcwd HAS_GETCWD  /**/
?H:.
?LINT:set d_getcwd
: see if getcwd exists
set getcwd d_getcwd
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_getcwd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2017 H.Merijn Brand (original change by Tony Cook)
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_openat d_unlinkat d_renameat d_linkat d_fchmodat: Inlibc
?MAKE: -pick add $@ %<
?S:d_fchmodat:
?S: This variable conditionally defines the HAS_FCHMODAT symbol, which
?S: indicates the POSIX fchmodat() function is available.
?S:.
?S:d_linkat:
?S: This variable conditionally defines the HAS_LINKAT symbol, which
?S: indicates the POSIX linkat() function is available.
```

```
?S:.
?S:d_openat:
?S: This variable conditionally defines the HAS_OPENAT symbol, which
?S: indicates the POSIX openat() function is available.
?S:.
?S:d_renameat:
?S: This variable conditionally defines the HAS_RENAMEAT symbol, which
?S: indicates the POSIX renameat() function is available.
?S:.
?S:d_unlinkat:
?S: This variable
 conditionally defines the HAS_UNLINKAT symbol, which
?S: indicates the POSIX unlinkat() function isavailable.
?S:.
?C:HAS_FCHMODAT:
?C: This symbol is defined if the fchmodat() routine is available.
?C:.
?C:HAS_LINKAT:
?C: This symbol is defined if the linkat() routine is available.
?C:.
?C:HAS_OPENAT:
?C: This symbol is defined if the openat() routine is available.
?C:.
?C:HAS_RENAMEAT:
?C: This symbol is defined if the renameat() routine is available.
?C:.
?C:HAS_UNLINKAT:
?C: This symbol is defined if the unlinkat() routine is available.
?C:.
?H:#$d_fchmodat HAS_FCHMODAT /**/
?H:#$d_linkat HAS_LINKAT /**/
?H:#$d_openat HAS_OPENAT /**/
?H:#$d_renameat HAS_RENAMEAT /**/
?H:#$d_unlinkat HAS_UNLINKAT /**/
?H:.
?LINT:set d_openat d_unlinkat d_renameat d_linkat d_fchmodat
: check for openat, unlinkat, renameat, linkat, fchmodat
set openat d_openat
eval $inlibc

set unlinkat d_unlinkat
eval $inlibc

set renameat d_renameat
eval $inlibc

set linkat d_linkat
eval $inlibc
```

```
set fchmodat d_fchmodat
eval
 $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_fsat.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_inetntop: Inlibc
?MAKE: -pick add $@ %<
?S:d_inetntop:
?S: This variable conditionally defines the HAS_INETNTOP symbol,
?S: which indicates to the C program that the inet_ntop() function
?S: is available.
?S:.
?C:HAS_INETNTOP:
?C: This symbol, if defined, indicates that the inet_ntop() function
?C: is available to parse IPv4 and IPv6 strings.
?C:.
?H:#$d_inetntop HAS_INETNTOP  /**/
?H:.
?LINT:set d_inetntop
: see if inet_ntop exists
set inet_ntop d_inetntop
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_inetntop.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_msgrcv.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msgrcv.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:40  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_msgrcv: Inlibc
?MAKE: -pick add $@ %<
?S:d_msgrcv:
?S: This variable conditionally defines the HAS_MSGRCV symbol, which
?S: indicates to the C program that the msgrcv() routine is available.
?S:.
?C:HAS_MSGRCV:
?C: This symbol, if defined, indicates that the msgrcv() routine is
?C: available to extract a message from the message queue.
?C:.
?H:#$d_msgrcv
 HAS_MSGRCV  /**/
?H:.
?LINT:set d_msgrcv
: see if msgrcv exists
set msgrcv d_msgrcv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/d_msgrcv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isless: cat Compile rm_try Setvar
?MAKE: -pick add $@ %<
?S:d_isless:
?S: This variable conditionally defines the HAS_ISLESS symbol, which
?S: indicates to the C program that the isless() routine is available.
?S:.
?C:HAS_ISLESS:
?C: This symbol, if defined, indicates that the isless routine is
?C: available to do the isless function.
?C:.
?H:#$d_isless HAS_ISLESS  /**/
?H:.
?LINT:set d_isless
: check for isless
echo "Checking to see if you have isless..." >&4
$cat >try.c <<EOCP
```

```
#include <math.h>
int main() { return isless(2.0, 1.0); }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have isless."
else
 val="$undef"
 echo "You do not have isless."
fi
$rm_try
set d_isless
eval $setvar
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_isless.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: archlib.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  15:23:38  ram
?RCS: patch61: skip existence checks for archlib
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:15:18  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/02/15  14:14:14  ram
?RCS: patch51: architecture name is now computed by a separate unit
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:32:22  ram
?RCS:
 patch49: archname is now systematically recomputed
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:02:36  ram
```

```
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_archlib archlib archlibexp installarchlib: archname afs spackage \
 cat Getfile Loc Oldconfig prefixexp privlib test Prefixit Prefixup
?MAKE: -pick add $@ %<
?Y:TOP
?S:d_archlib:
?S: This variable conditionally defines ARCHLIB to hold the pathname
?S: of architecture-dependent library files for $package.  If
?S: $archlib is the same as $privlib, then this is set to undef.
?S:.
?S:archlib:
?S: This variable holds the name of the directory in which the user wants
?S: to put architecture-dependent public library files for $package.
?S: It is most often a local directory such as /usr/local/lib.
?S: Programs using this variable must be prepared to deal
?S: with filename expansion.
?S:.
?S:archlibexp:
?S: This variable is the same as the archlib variable, but is
?S: filename
 expanded at configuration time, for convenient use.
?S:.
?S:installarchlib:
?S: This variable is really the same as archlibexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?C:ARCHLIB:
?C: This variable, if defined, holds the name of the directory in
?C: which the user wants to put architecture-dependent public
?C: library files for $package.  It is most often a local directory
?C: such as /usr/local/lib.  Programs using this variable must be
?C: prepared to deal with filename expansion.  If ARCHLIB is the
?C: same as PRIVLIB, it is not defined, since presumably the
?C: program already searches PRIVLIB.
?C:.
?C:ARCHLIB_EXP:
?C: This symbol contains the ~name expanded version of ARCHLIB, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#$d_archlib ARCHLIB "$archlib"  /**/
?H:#$d_archlib ARCHLIB_EXP "$archlibexp"  /**/
?H:.
: determine where public architecture
 dependent libraries go
set archlib archlib
eval $prefixit
```

```
case "$archlib" in
")
 case "$privlib" in
 ")
  dflt=`./loc . "." $prefixexp/lib /usr/local/lib /usr/lib /lib`
  set dflt
  eval $prefixup
  ;;
 *)  dflt="$privlib/$archname";;
 esac
 ;;
*) dflt="$archlib";;
esac
cat <<EOM

$spackage contains architecture-dependent library files.  If you are
sharing libraries in a heterogeneous environment, you might store
these files in a separate location.  Otherwise, you can just include
them with the rest of the public library files.

EOM
fn=d+~
rp='Where do you want to put the public architecture-dependent libraries?'
. ./getfile
archlib="$ans"
archlibexp="$ansexp"

if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
private files reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installarchlib" in
 ") dflt=`echo $archlibexp | sed 's#^/afs/#/afs/.#'`;;
 *)
 dflt="$installarchlib";;
 esac
 fn=de~
 rp='Where will architecture-dependent library files be installed?'
 . ./getfile
 installarchlib="$ans"
else
 installarchlib="$archlibexp"
fi
if $test X"$archlib" = X"$privlib"; then
```

```
 d_archlib="$undef"
else
 d_archlib="$define"
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/archlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Protochk.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X: This unit generates a ./protochk script that is used internally
?X: by Configure to check if this system will accept a particular
?X: prototype.
?X:
?X: To use it, say something like:
?X: hdrs="$define sys/types.h
?X:  $i_systime sys/time.h
?X:  $i_sysselct sys/select.h
?X:  $d_socket sys/socket.h"
?X: $xxx='fd_set *'
?X: try='extern int select _((int, $xxx, $xxx, $xxx, struct timeval *'));'
?X: if ./protochk "$try" $hdrs; then
?X:  echo "Your system accepts $xxx for the arguments to select."
?X: fi
?X:  (Of course select is harder, since the first arg can be int,
?X: size_t, or unsigned long, and the last arg may or may not have a
?X: 'const' before the 'struct timeval' :-(.  Also SunOS
 4.1.3 doesn't
?X: provide a select prototype so the compiler accepts anything :-).
?X:
?X: The C compiler on QNX warns about invalid pointer types, but
?X: still exits with a 0 exit status, so it's not much help here.
?X: (It does correctly detect incorrect non-pointer arguments).
?X: Still, since QNX is a POSIX-ish system, just make your first
?X: a POSIX-ish one, and QNX will probably accept it.
?X:
?X: For determining argument types, your compiler must support
?X: prototypes, and the header files must use them.  Determining
?X: return types, however, is easier.  Just give an ridiculous
?X: return type, something like
?X: ./protochk 'extern int atof _((void));' $i_stdlib stdlib.h
```

```
?X: that should surely fail if atof() is defined in <stdlib.h>
?X:
?X: There is also an 'escape' hatch built in.  If you have a pair
?X: of args   'literal 'stuff' then 'stuff' gets included literally
?X: into the test program.  This could be useful for doing something
?X: like
?X: hdrs="$define stdio.h
?X:  $define
 sys/types.h"
?X: ./protochk 'extern int fsetpos(FILE *, Fpos_t);' $args \
?X:   'literal' '#define Fpos_t long long'
?X: but you have to be really careful about the spaces in "literal".
?X:
?X:  Andy Dougherty   Feb. 1998
?MAKE:Protochk: cat rm_try startsh eunicefix +cc +optimize +ccflags \
 i_pthread usethreads
?MAKE: -pick add $@ %<
?F:./protochk
?X: Comfort metalint.  All these are actually used in the protochk script.
?T:foo status pthread_h_done
?LINT: change cc optimize ccflags define rm_try
?LINT: extern pthread_h_first
?LINT: change pthread_h_first
?LINT: change usethreads
?LINT: change i_pthread
: define a function to check prototypes
$cat > protochk <<EOSH
$startsh
cc="$cc"
optimize="$optimize"
ccflags="$ccflags"
define="$define"
rm_try="$rm_try"
usethreads=$usethreads
i_pthread=$i_pthread
pthread_h_first=$pthread_h_first
EOSH

$cat >> protochk <<'EOSH'

$rm_try
foo="$1"
shift
while test $# -ge 2; do
 case "$1" in
  $define) echo "#include <$2>" >> try.c ;;
  literal)
```

```
 echo "$2" >> try.c ;;
 esac
   # Extra magic for the benefit of systems that need pthread.h
   # to be included early to correctly detect threadsafe functions.
   # Such functions must guarantee themselves, though, that the usethreads
   # and i_pthread have been defined, before calling protochk.
   if test "$usethreads" = "$define" -a "$i_pthread" = "$define" -a "$pthread_h_first" = "$define" -a
"$pthread_h_done" = ""; then
 echo "#include <pthread.h>" >> try.c
 pthread_h_done=yes
   fi
   shift 2
done
cat >> try.c <<'EOCP'
#define _(args) args
EOCP
echo "$foo" >> try.c
?X: Just so we have something to compile.
echo 'int no_real_function_has_this_name _((void)) { return 0; }' >> try.c
$cc $optimize $ccflags -c try.c > /dev/null 2>&1
status=$?
$rm_try
exit $status
EOSH
chmod +x protochk
$eunicefix protochk
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/protos/Protochk.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_ftello: Inlibc longsize
?MAKE: -pick add $@ %<
?S:d_ftello:
?S: This variable conditionally defines the HAS_FTELLO symbol, which
?S: indicates to the C program that the ftello() routine is available.
?S:.
?C:HAS_FTELLO:
?C: This symbol, if defined, indicates that the ftello routine is
?C: available to ftell beyond 32 bits (useful for ILP32 hosts).
```

```
?C:.
?H:#$d_ftello HAS_FTELLO  /**/
?H:.
?LINT:set d_ftello
: see if ftello exists
set ftello d_ftello
eval $inlibc
case "$longsize" in
8) echo "(Your long is 64 bits, so you could use ftell.)" ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/d_ftello.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cf_who.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:28:50  ram
?RCS: patch61: new computation method avoiding use of temporary file
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:42:34  ram
?RCS: patch23: login name now computed the hard way
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:32  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Oldconfig dependency is there to ensure computation occurs after old values
?X: from config.sh have been loaded, so that we can supersede them.
?X:
?MAKE:cf_time
 cf_by: date Oldconfig
?MAKE: -pick add $@ %<
?S:cf_time:
?S: Holds the output of the "date" command when the configuration file was
?S: produced. This is used to tag both config.sh and config_h.SH.
?S:.
?S:cf_by:
```

```
?S: Login name of the person who ran the Configure script and answered the
?S: questions. This is used to tag both config.sh and config_h.SH.
?S:.
?LINT:change LC_ALL LANGUAGE
: who configured the system
?X: Ensure English date -- Jarkko Hietaniemi
cf_time=`LC_ALL=C; LANGUAGE=C; export LC_ALL; export LANGUAGE; $date 2>&1`
?X:
?X: Leave a white space between first two '(' for ksh. The sub-shell is needed
?X: on some machines to avoid the error message when logname is not found; e.g.
?X: on SUN-OS 3.2, (logname || whoami) would not execute whoami if logname was
?X: not found. Sigh!
?X:
?X: Convex had a broken logname executable which returned a non-zero status,
?X: and that broke the previous:
?X:   cf_by=`( (logname) 2>/dev/null || whoami) 2>&1`
?X: Switch to emergency
 mode... -- RAM, 19/04/94
?X:
?X: Parentheses needed to avoid error message if the program does not exist.
?X: Uses case instead of $test so it can be put before $test is defined.
?X: Don't redirect to a file because on Ultrix (under script?) logname
?X: outputs a blank line first.  This method will apparently work.
case "$cf_by" in
"")
 cf_by=`(logname) 2>/dev/null`
 case "$cf_by" in
 "")
  cf_by=`(whoami) 2>/dev/null`
  case "$cf_by" in
  "") cf_by=unknown ;;
  esac ;;
 esac ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/cf_who.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libnm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libnm.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:08:26  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libnm: test Loc libpth _a
?MAKE: -pick add $@ %<
?S:libnm:
?S: This variable contains the argument to pass to the loader in order
?S: to get the new math library routines.  If there is no new math
?S: library, it is null.
?S:.
?T:ans
?O:
 use libswanted='-lnm' instead (see libs.U).
: see if we should include -lnm
echo " "
if $test -r /usr/lib/libnm$_a || $test -r /usr/local/lib/libnm$_a ; then
 echo "New math library found." >&4
 libnm='-lnm'
else
 ans=`./loc libnm$_a x $libpth`
 case "$ans" in
 x)
  echo "No nm library found--the normal math library will have to do." >&4
  libnm=''
  ;;
 *)
  echo "New math library found in $ans." >&4
  libnm="$ans"
  ;;
 esac
fi
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/libnm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getgrgid_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getgrgid_r getgrgid_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_grp extern_C
?MAKE: -pick add $@ %<
?S:d_getgrgid_r:
?S: This variable conditionally defines the HAS_GETGRGID_R symbol,
?S: which indicates to the C program that the getgrgid_r()
?S: routine is available.
?S:.
?S:getgrgid_r_proto:
?S: This variable encodes the prototype of getgrgid_r.
?S: It is zero if d_getgrgid_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getgrgid_r
?S: is defined.
?S:.
?C:HAS_GETGRGID_R:
?C: This symbol, if defined, indicates that the getgrgid_r routine
?C: is available to
 getgrgid re-entrantly.
?C:.
?C:GETGRGID_R_PROTO:
?C: This symbol encodes the prototype of getgrgid_r.
?C: It is zero if d_getgrgid_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getgrgid_r
?C: is defined.
?C:.
?H:#$d_getgrgid_r HAS_GETGRGID_R /**/
?H:#define GETGRGID_R_PROTO $getgrgid_r_proto /**/
?H:.
?T:try hdrs d_getgrgid_r_proto
: see if getgrgid_r exists
set getgrgid_r d_getgrgid_r
eval $inlibc
case "$d_getgrgid_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_grp grp.h"
 case "$d_getgrgid_r_proto:$usethreads" in
 ":define") d_getgrgid_r_proto=define
  set d_getgrgid_r_proto getgrgid_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getgrgid_r_proto" in
 define)
 case "$getgrgid_r_proto" in
 "|0) try='int getgrgid_r(gid_t, struct group*, char*, size_t, struct group**);'
```

```
 ./protochk "$extern_C $try" $hdrs && getgrgid_r_proto=I_TSBWR ;;
 esac
 case "$getgrgid_r_proto" in
 "|0) try='int getgrgid_r(gid_t, struct group*, char*, int, struct
 group**);'
 ./protochk "$extern_C $try" $hdrs && getgrgid_r_proto=I_TSBIR ;;
 esac
 case "$getgrgid_r_proto" in
 "|0) try='int getgrgid_r(gid_t, struct group*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getgrgid_r_proto=I_TSBI ;;
 esac
 case "$getgrgid_r_proto" in
 "|0) try='struct group* getgrgid_r(gid_t, struct group*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getgrgid_r_proto=S_TSBI ;;
 esac
 case "$getgrgid_r_proto" in
 "|0) d_getgrgid_r=undef
  getgrgid_r_proto=0
  echo "Disabling getgrgid_r, cannot determine prototype." >&4 ;;
 * ) case "$getgrgid_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getgrgid_r_proto="REENTRANT_PROTO_$getgrgid_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getgrgid_r has no prototype, not using it." >&4 ;;
  esac
  d_getgrgid_r=undef
  getgrgid_r_proto=0
  ;;
 esac
 ;;
*) getgrgid_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_getgrgid_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: rcs_branch.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: rcs_branch.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:40  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:rcs_branch: Myread contains Loc
?MAKE: -pick add $@ %<
?S:rcs_branch:
?S: This variable will hold "true" if rcs can take the -b<revision>
?S: option, which can make Life Easier on those folks who like to run
?S: rcsdiff manually.
?S:.
?T:xxx
: Tra la la la la
echo " "
echo "Checking to see if RCS understands the -b switch..." >&4
xxx=`./loc
 rcs " $pth`
case "$xxx" in
")
 rcs_branch=false
 echo "Oh.  You don't seem to have RCS here."
 ;;
*)
 rcs > rcsbranch.out 2>&1
 if $contains 'b\[rev\]' rcsbranch.out  >/dev/null 2>&1 ; then
  rcs_branch=true
  echo "Nice!  Your RCS is spiffy!"
 else
  rcs_branch=false
 echo "Well, at least you have RCS.  You know, a newer version is available."
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/rcs_branch.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: randfunc.U,v 3.0 1993/08/18 12:09:39 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
```

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: randfunc.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This is the new unit that should be used when random
?X: functions are to be used. It thus makes randbits.U obsolete.
?X:
?X: This unit gives a simple #define for Drand01, which produces
?X: doubles in the range [0,1) using the "best" random number
?X: generator available.  The source should just call Drand01
?X: and not worry about the underlying
 implementation.
?X:     Andy Dougherty  July 1998
?X:
?MAKE:randfunc drand01 seedfunc randbits randseedtype: \
 Compile Myread Csym ccflags
?MAKE: -pick add $@ %<
?S:randfunc:
?S: Indicates the name of the random number function to use.
?S: Values include drand48, random, and rand. In C programs,
?S: the 'Drand01' macro is defined to generate uniformly distributed
?S: random numbers over the range [0., 1.[ (see drand01 and nrand).
?S:.
?S:drand01:
?S: Indicates the macro to be used to generate normalized
?S: random numbers.  Uses randfunc, often divided by
?S: (double) (((unsigned long) 1 << randbits)) in order to
?S: normalize the result.
?S: In C programs, the macro 'Drand01' is mapped to drand01.
?S:.
?S:randseedtype:
?S: Indicates the type of the argument of the seedfunc.
?S:.
?S:seedfunc:
?S: Indicates the random number generating seed function.
?S: Values include srand48, srandom, and srand.
?S:.
?S:randbits:
?S: Indicates how many bits are produced by the function used to
?S: generate
```

```
 normalized random numbers.
?S:.
?C:RANDFUNC:
?C: This symbol defines the random function used to define Drand01().
?C:.
?C:Drand01:
?C: This macro is to be used to generate uniformly distributed
?C: random numbers over the range [0., 1.[.  You may have to supply
?C: an 'extern double drand48();' in your program since SunOS 4.1.3
?C: doesn't provide you with anything relevant in its headers.
?C: See HAS_DRAND48_PROTO.
?C:.
?C:Rand_seed_t:
?C: This symbol defines the type of the argument of the
?C: random seed function.
?C:.
?C:seedDrand01:
?C: This symbol defines the macro to be used in seeding the
?C: random number generator (see Drand01).
?C:.
?C:RANDBITS:
?C: This symbol indicates how many bits are produced by the
?C: function used to generate normalized random numbers.
?C: Values include 15, 16, 31, and 48.
?C:.
?H:#define RANDFUNC  $randfunc  /**/
?H:#define Drand01()  $drand01  /**/
?H:#define Rand_seed_t  $randseedtype  /**/
?H:#define seedDrand01(x) $seedfunc((Rand_seed_t)x) /**/
?H:#define
 RANDBITS  $randbits  /**/
?H:.
?LINT:change ccflags
?LINT:unclosed $randbits))"
: How can we generate normalized random numbers ?
echo " "
echo "Using our internal random number implementation..." >&4

case "$ccflags" in
*-Dmy_rand=*|*-Dmy_srand=*)
 echo "Removing obsolete -Dmy_rand, -Dmy_srand, and -Drandbits from ccflags." >&4
 ccflags="`echo $ccflags | sed -e 's/-Dmy_rand=random/ /'`"
 ccflags="`echo $ccflags | sed -e 's/-Dmy_srand=srandom/ /'`"
 ccflags="`echo $ccflags | sed -e 's/-Drandbits=[0-9][0-9]*/ /'`"
 ;;
esac

randfunc=Perl_drand48
```

```
drand01="Perl_drand48()"
seedfunc="Perl_drand48_init"
randbits=48
randseedtype=U32
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/compline/randfunc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: usecbacktrace.U,v $
?RCS:
?RCS: Copyright (c) 2014 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: usecbacktrace.U,v $
?RCS:
?MAKE:usecbacktrace: Myread Oldconfig Setvar Getfile d_backtrace
?MAKE: -pick add $@ %<
?Y:TOP
?S:usecbacktrace:
?S: This variable indicates whether we are compiling with backtrace
?S: support.
?S:.
?C:USE_C_BACKTRACE:
?C: This symbol, if defined, indicates that Perl should
?C: be built with support for backtrace.
?C:.
?H:#$usecbacktrace USE_C_BACKTRACE  /**/
?H:.
: Check if C backtrace is actually supported.
case "$usecbacktrace" in
 "") usecbacktrace=$undef ;;
 [yY]*|true|$define)
   case "$d_backtrace" in
     [yY]*|true|$define)
       ;;
     *)
       echo "This system does not support backtrace" >&4
       usecbacktrace=$undef

  ;;
     esac
   ;;
 esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/perl/usebacktrace.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: mansrc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: mansrc.U,v $
?RCS: Revision 3.0.1.9  1997/02/28  16:12:03  ram
?RCS: patch61: don't ask for AFS when they choose to not install pages
?RCS:
?RCS: Revision 3.0.1.8  1995/09/25  09:16:58  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.7  1995/02/15  14:15:31  ram
?RCS: patch51: was mistakenly duplicating /usr/local/man/man1 (ADO)
?RCS: patch51: added /opt/man/man1 to the lookpath (ADO)
?RCS:
?RCS: Revision
 3.0.1.6  1995/01/30  14:39:34  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:32:25  ram
?RCS: patch45: can now use Loc variables since path stripping is deferred
?RCS:
?RCS: Revision 3.0.1.4  1994/08/29  16:30:38  ram
?RCS: patch32: now uses installation prefix for default setting
?RCS:
?RCS: Revision 3.0.1.3  1994/05/06  15:11:10  ram
?RCS: patch23: added lint hint, assuring that nroff is used
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:14:39  ram
?RCS: patch16: now uses _nroff in case user asked for portability
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:09:31  ram
?RCS: patch10: allows for L1 man page extension (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:mansrc mansrcexp manext installmansrc: afs cat nroff Loc Oldconfig \
 sysman spackage test Getfile Prefixit prefixexp Prefixup
?MAKE: -pick add $@ %<
?Y:TOP
?S:mansrc:
?S: This variable
 contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?S:mansrcexp:
?S: This variable is the same as the mansrc variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?S:installmansrc:
?S: This variable is really the same as mansrcexp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: mansrcexp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:manext:
?S: This variable contains the extension that the manual page should
?S: have: one of 'n', 'l', or '1'.  The Makefile must supply the '.'.
?S: See mansrc.
?S:.
?T:lookpath
: determine where manual pages go
set mansrc mansrc none
eval $prefixit
$cat <<EOM

$spackage has manual
 pages available in source form.
EOM
case "$nroff" in
nroff)
 echo "However, you don't have nroff, so they're probably useless to you."
 case "$mansrc" in
 ") mansrc="none";;
 esac;;
esac
echo "If you don't want the manual sources installed, answer 'none'."
case "$mansrc" in
")
 lookpath="$prefixexp/share/man/man1 $prefixexp/man/man1"
 lookpath="$lookpath $prefixexp/man/u_man/man1 $prefixexp/man/l_man/man1"
 lookpath="$lookpath /usr/local/man/man1 /opt/man/man1 /usr/man/manl"
```

```
 lookpath="$lookpath /usr/share/man/man1 /usr/local/share/man/man1"
 lookpath="$lookpath /usr/man/local/man1 /usr/man/l_man/man1"
 lookpath="$lookpath /usr/local/man/u_man/man1 /usr/local/man/l_man/man1"
 lookpath="$lookpath /usr/man/man.L"
 mansrc=`./loc . $prefixexp/man/man1 $lookpath`
 if $test -d "$mansrc"; then
  dflt="$mansrc"
 else
  dflt="$sysman"
 fi
 set dflt
 eval $prefixup
 ;;
' ') dflt=none;;
*)  dflt="$mansrc"
 ;;
esac
echo " "
fn=dn~
rp='Where do the manual pages (source) go?'
. ./getfile
if test
 "X$mansrcexp" != "X$ansexp"; then
 installmansrc="
fi
mansrc="$ans"
mansrcexp="$ansexp"
case "$mansrc" in
") mansrc=' '
 installmansrc=";;
esac
if $afs && $test "$mansrc"; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
manual pages reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installmansrc" in
 ") dflt=`echo $mansrcexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installmansrc";;
 esac
 fn=de~
 rp='Where will man pages be installed?'
 . ./getfile
 installmansrc="$ans"
else
```

```
 installmansrc="$mansrcexp"
fi

case "$mansrc" in
' ') manext='0';;
*l) manext=l;;
*n) manext=n;;
*o) manext=l;;
*p) manext=n;;
*C) manext=C;;
*L) manext=L;;
*L1) manext=L1;;
*) manext=1;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/dist/U/mansrc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gmtime_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_gmtime_r gmtime_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_time i_systime extern_C
?MAKE: -pick add $@ %<
?S:d_gmtime_r:
?S: This variable conditionally defines the HAS_GMTIME_R symbol,
?S: which indicates to the C program that the gmtime_r()
?S: routine is available.
?S:.
?S:gmtime_r_proto:
?S: This variable encodes the prototype of gmtime_r.
?S: It is zero if d_gmtime_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gmtime_r
?S: is defined.
?S:.
?C:HAS_GMTIME_R:
?C: This symbol, if defined, indicates that the gmtime_r routine
?C: is available to gmtime re-entrantly.
?C:.
?C:GMTIME_R_PROTO:
?C: This
```

```
 symbol encodes the prototype of gmtime_r.
?C: It is zero if d_gmtime_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gmtime_r
?C: is defined.
?C:.
?H:#$d_gmtime_r HAS_GMTIME_R /**/
?H:#define GMTIME_R_PROTO $gmtime_r_proto /**/
?H:.
?T:try hdrs d_gmtime_r_proto
: see if gmtime_r exists
set gmtime_r d_gmtime_r
eval $inlibc
case "$d_gmtime_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_time time.h $i_systime sys/time.h"
 case "$d_gmtime_r_proto:$usethreads" in
 ":define") d_gmtime_r_proto=define
  set d_gmtime_r_proto gmtime_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_gmtime_r_proto" in
 define)
 case "$gmtime_r_proto" in
 "|0) try='struct tm* gmtime_r(const time_t*, struct tm*);'
 ./protochk "$extern_C $try" $hdrs && gmtime_r_proto=S_TS ;;
 esac
 case "$gmtime_r_proto" in
 "|0) try='int gmtime_r(const time_t*, struct tm*);'
 ./protochk "$extern_C $try" $hdrs && gmtime_r_proto=I_TS ;;
 esac
 case
 "$gmtime_r_proto" in
 "|0) d_gmtime_r=undef
  gmtime_r_proto=0
  echo "Disabling gmtime_r, cannot determine prototype." >&4 ;;
 * ) case "$gmtime_r_proto" in
  REENTRANT_PROTO*) ;;
  *) gmtime_r_proto="REENTRANT_PROTO_$gmtime_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "gmtime_r has no prototype, not using it." >&4 ;;
  esac
  d_gmtime_r=undef
  gmtime_r_proto=0
```

```
  ;;
 esac
 ;;
*) gmtime_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/1870835517_1703056624.9574559/0/perl-5-36-0-orig-regen-configure-1-tar-xz/metaconfig-5.36.0/U/threads/d_gmtime_r.U

1.1976 sys-mountinfo 0.7.1

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1.1977 libio-socket-ssl-perl 2.074-2

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```
---
abstract: 'Nearly transparent SSL encapsulation for IO::Socket::INET.'
author:
 - 'Steffen Ullrich <sullr@cpan.org>, Peter Behroozi, Marko Asplund'
build_requires:
 ExtUtils::MakeMaker: '0'
configure_requires:
 ExtUtils::MakeMaker: '0'
 Net::SSLeay: '1.46'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.34, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: '1.4'
name: IO-Socket-SSL
no_index:
 directory:
   - t
   - inc
```

```
requires:
 Mozilla::CA: '0'
 Net::SSLeay: '1.46'
 Scalar::Util: '0'
resources:
 bugtracker: https://github.com/noxxi/p5-io-socket-ssl/issues
 homepage: https://github.com/noxxi/p5-io-socket-ssl
 license: http://dev.perl.org/licenses/
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version: '2.074'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

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*
 /opt/cola/permits/1871146415_1703021888.4795954/0/libio-socket-ssl-perl-2-074-orig-1-tar-gz/IO-Socket-SSL-
2.074/META.yml
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=head1 NAME

IO::Socket::SSL - SSL sockets with IO::Socket interface

=head1 SYNOPSIS

   use strict;
   use IO::Socket::SSL;

   # simple client
   my $cl = IO::Socket::SSL->new('www.google.com:443');
   print $cl "GET / HTTP/1.0\r\n\r\n";
   print <$cl>;

   # simple server
   my $srv = IO::Socket::SSL->new(
 LocalAddr => '0.0.0.0:1234',
 Listen => 10,
 SSL_cert_file => 'server-cert.pem',
 SSL_key_file => 'server-key.pem',
   );
   $srv->accept;

=head1 DESCRIPTION

IO::Socket::SSL makes using SSL/TLS much easier by wrapping the necessary
functionality into the familiar L<IO::Socket> interface and providing secure
defaults whenever possible.
This way, existing applications can be made SSL-aware without much effort, at
least if you do blocking I/O and don't use select or poll.
```

But, under the hood, SSL is a complex beast.
So there are lots of methods to make it do what you need if the default behavior is not
adequate.
Because it is easy to inadvertently introduce critical security bugs or just hard to debug problems, I would recommend studying the following documentation carefully.

The documentation consists of the following parts:

=over 4

=item * L</"Essential Information About SSL/TLS">

=item * L</"Basic SSL Client">

=item * L</"Basic SSL Server">

=item * L</"Common Usage Errors">

=item * L</"Common Problems with SSL">

=item * L</"Using Non-Blocking Sockets">

=item * L</"Advanced Usage">

=item * L</"Integration Into Own Modules">

=item * L</"Description Of Methods">

=back

Additional documentation can be found in

=over 4

=item * L<IO::Socket::SSL::Intercept> - Doing Man-In-The-Middle with SSL

=item * L<IO::Socket::SSL::Utils> - Useful functions for certificates etc

=back

=head1 Essential Information About SSL/TLS

SSL (Secure Socket Layer) or its successor TLS (Transport Layer Security) are protocols to facilitate end-to-end security. These protocols are used when

accessing
web sites (https), delivering or retrieving email, and in lots of other
use cases.
In the following documentation we will refer to both SSL and TLS as simply 'SSL'.

SSL enables end-to-end security by providing two essential functions:

=over 4

=item Encryption

This part encrypts the data for transit between the communicating parties, so
that nobody in between can read them. It also provides tamper resistance so that
nobody in between can manipulate the data.

=item Identification

This part makes sure that you talk to the right peer.
If the identification is done incorrectly it is easy to mount man-in-the-middle
attacks, e.g. if Alice wants to talk to Bob it would be possible for Mallory to
put itself in the middle, so that Alice talks to Mallory and Mallory to Bob.
All the data would still be encrypted, but not end-to-end between Alice and Bob,
but only between Alice and Mallory and then between Mallory and Bob.
Thus Mallory would be able to read and modify all traffic between
Alice and Bob.

=back

Identification is the part which is the hardest to understand and the easiest
to get wrong.

With SSL, the Identification is usually done with B<certificates> inside a B<PKI>
(Public Key Infrastructure).
These Certificates are comparable to an identity card, which contains
information about the owner of the card. The card then is somehow B<signed> by
the B<issuer> of the card, the B<CA> (Certificate Agency).

To verify the identity of the peer the following must be done inside SSL:

=over 4

=item *

Get the certificate from the peer.
If the peer does not present a certificate we cannot verify it.

=item *

Check if we trust the certificate, e.g. make sure it's not a forgery.

We believe that a certificate is not a fake if we either know the certificate already or if we B<trust> the issuer (the CA) and can verify the issuers signature on the certificate.
In reality there is often a hierarchy of certificate agencies and we only directly trust the root of this
hierarchy.
In this case the peer not only sends his own certificate, but also all B<intermediate certificates>.
Verification will be done by building a B<trust path> from the trusted root up to the peers certificate and checking in each step if the we can verify the issuer's signature.

This step often causes problems because the client does not know the necessary trusted root certificates. These are usually stored in a system dependent CA store, but often the browsers have their own CA store.

=item *

Check if the certificate is still valid.
Each certificate has a lifetime and should not be used after that time because it might be compromised or the underlying cryptography got broken in the mean time.

=item *

Check if the subject of the certificate matches the peer.
This is like comparing the picture on the identity card against the person representing the identity card.

When connecting to a server this is usually done by comparing the hostname used for connecting against the names
represented in the certificate.
A certificate might contain multiple names or wildcards, so that it can be used for multiple hosts (e.g. *.example.com and *.example.org).

Although nobody sane would accept an identity card where the picture does not match the person we see, it is a common implementation error with SSL to omit this check or get it wrong.

=item *

Check if the certificate was revoked by the issuer.
This might be the case if the certificate was compromised somehow and now somebody else might use it to claim the wrong identity.
Such revocations happened a lot after the heartbleed attack.

For SSL there are two ways to verify a revocation, CRL and OCSP.
With CRLs (Certificate Revocation List) the CA provides a list of serial numbers for revoked certificates. The client somehow has to download the list (which can be huge) and keep it up to date.
With OCSP (Online Certificate Status Protocol) the client can check a single certificate directly by asking the issuer.

Revocation
is the hardest part of the verification and none of today's browsers get it fully correct. But, they are still better than most other implementations which don't implement revocation checks or leave the hard parts to the developer.

=back

When accessing a web site with SSL or delivering mail in a secure way the identity is usually only checked one way, e.g. the client wants to make sure it talks to the right server, but the server usually does not care which client it talks to.
But, sometimes the server wants to identify the client too and will request a certificate from the client which the server must verify in a similar way.

=head1 Basic SSL Client

A basic SSL client is simple:

```
  my $client = IO::Socket::SSL->new('www.example.com:443')
 or die "error=$!, ssl_error=$SSL_ERROR";
```

This will take the OpenSSL default CA store as the store for the trusted CA.
This usually works on UNIX systems.
If there are no certificates in the store it will try use L<Mozilla::CA> which provides
the default CAs of Firefox.

In the default settings, L<IO::Socket::SSL> will use a safer cipher set and SSL version, do a proper hostname check against the certificate, and use SNI (server name indication) to send the hostname inside the SSL handshake. This is necessary to work with servers which have different certificates behind the same IP address.
It will also check the revocation of the certificate with OCSP, but currently only if the server provides OCSP stapling (for deeper checks see C<ocsp_resolver> method).

Lots of options can be used to change ciphers, SSL version, location of CA and much more. See documentation of methods for details.

With protocols like SMTP it is necessary to upgrade an existing socket to SSL.
This can be done like this:

```
  my $client = IO::Socket::INET->new('mx.example.com:25') or die $!;
  # .. read greeting from server
  # .. send EHLO and read response
  # .. send STARTTLS command and read response
  # .. if response was successful we
 can upgrade the socket to SSL now:
  IO::Socket::SSL->start_SSL($client,
 # explicitly set hostname we should use for SNI
 SSL_hostname => 'mx.example.com'
  ) or die $SSL_ERROR;
```

A more complete example for a simple HTTP client:

```
  my $client = IO::Socket::SSL->new(
 # where to connect
 PeerHost => "www.example.com",
 PeerPort => "https",

 # certificate verification - VERIFY_PEER is default
 SSL_verify_mode => SSL_VERIFY_PEER,

 # location of CA store
 # need only be given if default store should not be used
 SSL_ca_path => '/etc/ssl/certs', # typical CA path on Linux
 SSL_ca_file => '/etc/ssl/cert.pem', # typical CA file on BSD

 # or just use default path on system:
 IO::Socket::SSL::default_ca(), # either explicitly
 # or implicitly by not giving SSL_ca_*

 # easy hostname verification
 # It will use PeerHost as default name a verification
 # scheme as default, which is safe enough for most purposes.
 SSL_verifycn_name => 'foo.bar',
 SSL_verifycn_scheme => 'http',

 # SNI
 support - defaults to PeerHost
 SSL_hostname => 'foo.bar',

  ) or die "failed connect or ssl handshake: $!,$SSL_ERROR";

  # send and receive over SSL connection
  print $client "GET / HTTP/1.0\r\n\r\n";
  print <$client>;
```

And to do revocation checks with OCSP (only available with OpenSSL 1.0.0 or higher and L<Net::SSLeay> 1.59 or higher):

```
  # default will try OCSP stapling and check only leaf certificate
  my $client = IO::Socket::SSL->new($dst);

  # better yet: require checking of full chain
  my $client = IO::Socket::SSL->new(
PeerAddr => $dst,
SSL_ocsp_mode => SSL_OCSP_FULL_CHAIN,
  );

  # even better: make OCSP errors fatal
  # (this will probably fail with lots of sites because of bad OCSP setups)
  # also use common OCSP response cache
  my $ocsp_cache = IO::Socket::SSL::OCSP_Cache->new;
  my $client = IO::Socket::SSL->new(
PeerAddr => $dst,
SSL_ocsp_mode => SSL_OCSP_FULL_CHAIN|SSL_OCSP_FAIL_HARD,
SSL_ocsp_cache => $ocsp_cache,
  );

  #
disable OCSP stapling in case server has problems with it
  my $client = IO::Socket::SSL->new(
PeerAddr => $dst,
SSL_ocsp_mode => SSL_OCSP_NO_STAPLE,
  );

  # check any certificates which are not yet checked by OCSP stapling or
  # where we have already cached results. For your own resolving combine
  # $ocsp->requests with $ocsp->add_response(uri,response).
  my $ocsp = $client->ocsp_resolver();
  my $errors = $ocsp->resolve_blocking();
  if ($errors) {
warn "OCSP verification failed: $errors";
close($client);
  }
```

=head1 Basic SSL Server

A basic SSL server looks similar to other L<IO::Socket> servers, only that it also contains settings for certificate and key:

```
  # simple server
  my $server = IO::Socket::SSL->new(
# where to listen
```

```
 LocalAddr => '127.0.0.1',
 LocalPort => 8080,
 Listen => 10,

 # which certificate to offer
 # with SNI support there can be different certificates per hostname
 SSL_cert_file => 'cert.pem',
 SSL_key_file => 'key.pem',

 ) or die "failed to listen: $!";

   # accept client
   my $client = $server->accept or die
 "failed to accept or ssl handshake: $!,$SSL_ERROR";
```

This will automatically use a secure set of ciphers and SSL version and also supports Forward Secrecy with (Elliptic-Curve) Diffie-Hellmann Key Exchange.

If you are doing a forking or threading server, we recommend that you do the SSL handshake inside the new process/thread so that the master is free for new connections.
We recommend this because a client with improper or slow SSL handshake could make the server block in the handshake which would be bad to do on the listening socket:

```
   # inet server
   my $server = IO::Socket::INET->new(
 # where to listen
 LocalAddr => '127.0.0.1',
 LocalPort => 8080,
 Listen => 10,
   );

   # accept client
   my $client = $server->accept or die;

   # SSL upgrade client (in new process/thread)
   IO::Socket::SSL->start_SSL($client,
 SSL_server => 1,
 SSL_cert_file => 'cert.pem',
 SSL_key_file =>
 'key.pem',
   ) or die "failed to ssl handshake: $SSL_ERROR";
```

Like with normal sockets, neither forking nor threading servers scale well.
It is recommended to use non-blocking sockets instead, see
L</"Using Non-Blocking Sockets">

=head1 Common Usage Errors

This is a list of typical errors seen with the use of L<IO::Socket::SSL>:

=over 4

=item *

Disabling verification with C<SSL_verify_mode>.

As described in L</"Essential Information About SSL/TLS">, a proper identification of the peer is essential and failing to verify makes Man-In-The-Middle attacks possible.

Nevertheless, lots of scripts and even public modules or applications disable verification, because it is probably the easiest way to make the thing work and usually nobody notices any security problems anyway.

If the verification does not succeed with the default settings, one can do the following:

=over 8

=item *

Make sure the needed CAs are in the store, maybe use C<SSL_ca_file> or C<SSL_ca_path> to specify a different
 CA store.

=item *

If the validation fails because the certificate is self-signed and that's what you expect, you can use the C<SSL_fingerprint> option to accept specific leaf certificates by their certificate or pubkey fingerprint.

=item *

If the validation failed because the hostname does not match and you cannot access the host with the name given in the certificate, you can use C<SSL_verifycn_name> to specify the hostname you expect in the certificate.

=back

A common error pattern is also to disable verification if they found no CA store (different modules look at different "default" places).
Because L<IO::Socket::SSL> is now able to provide a usable CA store on most platforms (UNIX, Mac OSX and Windows) it is better to use the defaults provided by L<IO::Socket::SSL>.

If necessary these can be checked with the C<default_ca> method.

=item *

Polling of SSL sockets (e.g. select, poll and other event loops).

If you sysread one byte on a normal socket it will result in a
syscall to read
one byte. Thus, if more than one byte is available on the socket it will be kept
in the network stack of your OS and the next select or poll call will return the
socket as readable.
But, with SSL you don't deliver single bytes. Multiple data bytes are packaged
and encrypted together in an SSL frame. Decryption can only be done on the whole
frame, so a sysread for one byte actually reads the complete SSL frame from the
socket, decrypts it and returns the first decrypted byte. Further sysreads will
return more bytes from the same frame until all bytes are returned and the
next SSL frame will be read from the socket.

Thus, in order to decide if you can read more data (e.g. if sysread will block)
you must check if there are still data in the current SSL frame by calling
C<pending> and if there are no data pending you might check the underlying
socket with select or poll.
Another way might be if you try to sysread at least 16kByte all the time.
16kByte is the maximum size
of an SSL frame and because sysread returns data
from only a single SSL frame you can guarantee that there are no pending
data.

Additionally, contrary to plain sockets the data delivered on the socket are
not necessarily application payload.
It might be a TLS handshake, it might just be the beginning of a TLS record or
it might be TLS session tickets which are send after the TLS handshake in TLS
1.3.
In such situations select will return that data are available for read since it
only looks at the plain socket.
A sysread on the IO::Socket::SSL socket will not return any data though since it
is an abstraction which only returns application data.
This causes the sysread to hang in case the socket was blocking or to return
an error with EAGAIN on non-blocking sockets.
Applications using select or similar should therefore set the socket to
non-blocking and also expect that the sysread might temporarily fail with
EAGAIN.

See also L</"Using Non-Blocking Sockets">.

=item *

Expecting exactly

the same behavior as plain sockets.

IO::Socket::SSL tries to emulate the usual socket behavior as good as possible, but full emulation can not be done. Specifically a read on the SSL socket might also result in a write on the TCP socket or a write on the SSL socket might result in a read on the TCP socket. Also C<accept> and B<close> on the SSL socket will result in writing and reading data to the TCP socket too.

Especially the hidden writes might result in a connection reset if the underlying TCP socket is already closed by the peer. Unless signal PIPE is explicitly handled by the application this will usually result in the application crashing. It is thus recommended to explicitly IGNORE signal PIPE so that the errors get propagated as EPIPE instead of causing a crash of the application.

=item *

Set 'SSL_version' or 'SSL_cipher_list' to a "better" value.

L<IO::Socket::SSL> tries to set these values to reasonable, secure values which are compatible with the rest of the world.
But,
there are some scripts or modules out there which tried to be smart and get more secure or compatible settings.
Unfortunately, they did this years ago and never updated these values, so they are still forced to do only 'TLSv1' (instead of also using TLSv12 or TLSv11).
Or they set 'HIGH' as the cipher list and thought they were secure, but did not notice that 'HIGH' includes anonymous ciphers, e.g. without identification of the peer.

So it is recommended to leave the settings at the secure defaults which L<IO::Socket::SSL> sets and which get updated from time to time to better fit the real world.

=item *

Make SSL settings inaccessible by the user, together with bad builtin settings.

Some modules use L<IO::Socket::SSL>, but don't make the SSL settings available to the user. This is often combined with bad builtin settings or defaults (like switching verification off).

Thus the user needs to hack around these restrictions by using C<set_args_filter_hack> or similar.

=item *

Use

of constants as strings.

Constants like C<SSL_VERIFY_PEER> or C<SSL_WANT_READ> should be used as constants and not be put inside quotes, because they represent numerical values.

=item *

Forking and handling the socket in parent and child.

A B<fork> of the process will duplicate the internal user space SSL state of the socket. If both master and child interact with the socket by using their own SSL state strange error messages will happen. Such interaction includes explicit or implicit B<close> of the SSL socket. To avoid this the socket should be explicitly closed with B<SSL_no_shutdown>.

=item *

Forking and executing a new process.

Since the SSL state is stored in user space it will be duplicated by a B<fork> but it will be lost when doing B<exec>. This means it is not possible to simply redirect stdin and stdout for the new process to the SSL socket by duplicating the relevant file handles. Instead explicitly exchanging plain data between child-process and SSL socket are needed.

=back

=head1
Common Problems with SSL

SSL is a complex protocol with multiple implementations and each of these has their own quirks. While most of these implementations work together, it often gets problematic with older versions, minimal versions in load balancers, or plain wrong setups.

Unfortunately these problems are hard to debug.
Helpful for debugging are a knowledge of SSL internals, wireshark and the use of the debug settings of L<IO::Socket::SSL> and L<Net::SSLeay>, which can both be set with C<$IO::Socket::SSL::DEBUG>.
The following debugs levels are defined, but used not in any consistent way:

=over 4

=item *

0 - No debugging (default).

=item *

1 - Print out errors from L<IO::Socket::SSL> and ciphers from L<Net::SSLeay>.

=item *

2 - Print also information about call flow from L<IO::Socket::SSL> and progress information from L<Net::SSLeay>.

=item *

3 - Print also some data dumps from L<IO::Socket::SSL> and from L<Net::SSLeay>.

=back

Also, C<analyze-ssl.pl>
from the ssl-tools repository at
L<https://github.com/noxxi/p5-ssl-tools> might be a helpful tool when debugging SSL problems, as do the C<openssl> command line tool and a check with a different SSL implementation (e.g. a web browser).

The following problems are not uncommon:

=over 4

=item *

Bad server setup: missing intermediate certificates.

It is a regular problem that administrators fail to include all necessary certificates into their server setup, e.g. everything needed to build the trust chain from the trusted root.
If they check the setup with the browser everything looks ok, because browsers work around these problems by caching any intermediate certificates and apply them to new connections if certificates are missing.

But, fresh browser profiles which have never seen these intermediates cannot fill in the missing certificates and fail to verify; the same is true with L<IO::Socket::SSL>.

=item *

Old versions of servers or load balancers which do not understand specific
TLS
versions or croak on specific data.

From time to time one encounters an SSL peer, which just closes the connection

inside the SSL handshake. This can usually be worked around by downgrading the SSL version, e.g. by setting C<SSL_version>. Modern Browsers usually deal with such servers by automatically downgrading the SSL version and repeat the connection attempt until they succeed.

Worse servers do not close the underlying TCP connection but instead just drop the relevant packet. This is harder to detect because it looks like a stalled connection. But downgrading the SSL version often works here too.

A cause of such problems are often load balancers or security devices, which have hardware acceleration and only a minimal (and less robust) SSL stack. They can often be detected because they support much fewer ciphers than other implementations.

=item *

Bad or old OpenSSL versions.

L<IO::Socket::SSL> uses OpenSSL with the help of the L<Net::SSLeay> library. It is recommend
to have a recent version of this library, because it has more
features and usually fewer known bugs.

=item *

Validation of client certificates fail.

Make sure that the purpose of the certificate allows use as ssl client (check with C<< openssl x509 -purpose >>, that the necessary root certificate is in the path specified by C<SSL_ca*> (or the default path) and that any intermediate certificates needed to build the trust chain are sent by the client.

=item *

Validation of self-signed certificate fails even if it is given with C<SSL_ca*> argument.

The C<SSL_ca*> arguments do not give a general trust store for arbitrary certificates but only specify a store for CA certificates which then can be used to verify other certificates. This especially means that certificates which are not a CA get simply ignored, notably self-signed certificates which do not also have the CA-flag set.

This behavior of OpenSSL differs from the more general trust-store concept which can be found in browsers
and where it is possible to simply added arbitrary
certificates (CA or not) as trusted.

=back

=head1 Using Non-Blocking Sockets

If you have a non-blocking socket, the expected behavior on read, write, accept
or connect is to set C<$!> to EWOULDBLOCK if the operation cannot be completed
immediately. Note that EWOULDBLOCK is the same as EAGAIN on UNIX systems, but
is different on Windows.

With SSL, handshakes might occur at any time, even within an established
connection. In these cases it is necessary to finish the handshake before
you can read or write data. This might result in situations where you want to
read but must first finish the write of a handshake or where you want to write
but must first finish a read.
In these cases C<$!> is set to EAGAIN like expected, and additionally
C<$SSL_ERROR> is set to either SSL_WANT_READ or SSL_WANT_WRITE.
Thus if you get EWOULDBLOCK on a SSL socket you must check C<$SSL_ERROR> for
SSL_WANT_* and adapt your event mask accordingly.

Using
 readline on non-blocking sockets does not make much sense and I would
advise against using it.
And, while the behavior is not documented for other L<IO::Socket> classes, it
will try to emulate the behavior seen there, e.g. to return the received data
instead of blocking, even if the line is not complete. If an unrecoverable error
occurs it will return nothing, even if it already received some data.

Also, I would advise against using C<accept> with a non-blocking SSL object
because it might block and this is not what most would expect. The reason for
this is that C<accept> on a non-blocking TCP socket (e.g. L<IO::Socket::IP>,
L<IO::Socket::INET>..) results in a new TCP socket which does not inherit the
non-blocking behavior of the master socket. And thus, the initial SSL handshake
on the new socket inside C<IO::Socket::SSL::accept> will be done in a blocking
way. To work around this you are safer by doing a TCP accept and later upgrade the
TCP socket in a non-blocking way with C<start_SSL>
 and C<accept_SSL>.

```
  my $cl = IO::Socket::SSL->new($dst);
  $cl->blocking(0);
  my $sel = IO::Select->new($cl);
  while (1) {
# with SSL a call for reading n bytes does not result in reading of n
# bytes from the socket, but instead it must read at least one full SSL
# frame. If the socket has no new bytes, but there are unprocessed data
# from the SSL frame can_read will block!
```

```
# wait for data on socket
$sel->can_read();

# new data on socket or eof
READ:
# this does not read only 1 byte from socket, but reads the complete SSL
# frame and then just returns one byte. On subsequent calls it than
# returns more byte of the same SSL frame until it needs to read the
# next frame.
my $n = sysread( $cl,my $buf,1);
if ( ! defined $n ) {
    die $! if not $!{EWOULDBLOCK};
    next if $SSL_ERROR == SSL_WANT_READ;
    if ( $SSL_ERROR == SSL_WANT_WRITE ) {
 # need to write data on renegotiation
 $sel->can_write;
 next;
    }
    die "something went wrong:
$SSL_ERROR";
} elsif ( ! $n ) {
    last; # eof
} else {
    # read next bytes
    # we might have still data within the current SSL frame
    # thus first process these data instead of waiting on the underlying
    # socket object
    goto READ if $cl->pending;    # goto sysread
    next;                         # goto $sel->can_read
}
  }
```

Additionally there are differences to plain sockets when using select, poll, kqueue or similar technologies to get notified if data are available. Relying only on these calls is not sufficient in all cases since unread data might be internally buffered in the SSL stack. To detect such buffering B<pending()> need to be used. Alternatively the buffering can be avoided by using B<sysread> with the maximum size of an SSL frame. See L</"Common Usage Errors"> for details.

=head1 Advanced Usage

=head2 SNI Support

Newer extensions to SSL can distinguish between multiple hostnames on the same IP address using Server Name Indication (SNI).

Support
for SNI on the client side was added somewhere in the OpenSSL 0.9.8
series, but with 1.0 a bug was fixed when the server could not decide about
its hostname. Therefore client side SNI is only supported with OpenSSL 1.0 or
higher in L<IO::Socket::SSL>.
With a supported version, SNI is used automatically on the client side, if it
can determine the hostname from C<PeerAddr> or C<PeerHost> (which are synonyms
in the underlying IO::Socket:: classes and thus should never be set both or at
least not to different values).
On unsupported OpenSSL versions it will silently not use SNI.
The hostname can also be given explicitly given with C<SSL_hostname>, but in
this case it will throw in error, if SNI is not supported.
To check for support you might call C<< IO::Socket::SSL->can_client_sni() >>.

On the server side, earlier versions of OpenSSL are supported, but only together
with L<Net::SSLeay> version >= 1.50.
To check for support you might call C<< IO::Socket::SSL->can_server_sni() >>.
If
server side SNI is supported, you might specify different certificates per
host with C<SSL_cert*> and C<SSL_key*>, and check the requested name using
C<get_servername>.

=head2 Talk Plain and SSL With The Same Socket

It is often required to first exchange some plain data and then upgrade the
socket to SSL after some kind of STARTTLS command. Protocols like FTPS even
need a way to downgrade the socket again back to plain.

The common way to do this would be to create a normal socket and use C<start_SSL>
to upgrade and stop_SSL to downgrade:

```
my $sock = IO::Socket::INET->new(...) or die $!;
... exchange plain data on $sock until starttls command ...
IO::Socket::SSL->start_SSL($sock,%sslargs) or die $SSL_ERROR;
... now $sock is an IO::Socket::SSL object ...
... exchange data with SSL on $sock until stoptls command ...
$sock->stop_SSL or die $SSL_ERROR;
... now $sock is again an IO::Socket::INET object ...
```

But, lots of modules just derive directly from L<IO::Socket::INET>.
While
this base class can be replaced with L<IO::Socket::SSL>, these modules cannot
easily support different base classes for SSL and plain data and switch between
these classes on a starttls command.

To help in this case, L<IO::Socket::SSL> can be reduced to a plain socket on
startup, and connect_SSL/accept_SSL/start_SSL can be used to enable SSL and

C<stop_SSL> to talk plain again:

```
  my $sock = IO::Socket::SSL->new(
 PeerAddr => ...
 SSL_startHandshake => 0,
 %sslargs
  ) or die $!;
  ... exchange plain data on $sock until starttls command ...
  $sock->connect_SSL or die $SSL_ERROR;
  ... now $sock is an IO::Socket::SSL object ...
  ... exchange data with SSL on $sock until stoptls command ...
  $sock->stop_SSL or die $SSL_ERROR;
  ... $sock is still an IO::Socket::SSL object ...
  ... but data exchanged again in plain ...
```

=head1 Integration Into Own Modules

L<IO::Socket::SSL> behaves similarly to other L<IO::Socket> modules and thus could be integrated
 in the same way, but you have to take special care when using
non-blocking I/O (like for handling timeouts) or using select or poll.
Please study the documentation on how to deal with these differences.

Also, it is recommended to not set or touch most of the C<SSL_*> options, so
that they keep their secure defaults. It is also recommended to let the user
override these SSL specific settings without the need of global settings or hacks
like C<set_args_filter_hack>.

The notable exception is C<SSL_verifycn_scheme>.
This should be set to the hostname verification scheme required by the module or
protocol.

=head1 Description Of Methods

L<IO::Socket::SSL> inherits from another L<IO::Socket> module.
The choice of the super class depends on the installed modules:

=over 4

=item *

If L<IO::Socket::IP> with at least version 0.20 is installed it will use this
module as super class, transparently providing IPv6 and IPv4 support.

=item *

If L<IO::Socket::INET6> is installed it
will use this module as super class,
transparently providing IPv6 and IPv4 support.

=item *

Otherwise it will fall back to L<IO::Socket::INET>, which is a perl core module.
With L<IO::Socket::INET> you only get IPv4 support.

=back

Please be aware that with the IPv6 capable super classes, it will look first
for the IPv6 address of a given hostname. If the resolver provides an IPv6
address, but the host cannot be reached by IPv6, there will be no automatic
fallback to IPv4.
To avoid these problems you can enforce IPv4 for a specific socket by
using the C<Domain> or C<Family> option with the value AF_INET as described in
L<IO::Socket::IP>. Alternatively you can enforce IPv4 globally by loading
L<IO::Socket::SSL> with the option 'inet4', in which case it will use the IPv4
only class L<IO::Socket::INET> as the super class.

L<IO::Socket::SSL> will provide all of the methods of its super class, but
sometimes it will override them to match the behavior expected from SSL or to
provide additional
arguments.

The new or changed methods are described below, but please also read the
section about SSL specific error handling.

=over 4

=item Error Handling

If an SSL specific error occurs, the global variable C<$SSL_ERROR> will be set.
If the error occurred on an existing SSL socket, the method C<errstr> will
give access to the latest socket specific error.
Both C<$SSL_ERROR> and the C<errstr> method give a dualvar similar to C<$!>, e.g.
providing an error number in numeric context or an error description in string
context.

=item B<new(...)>

Creates a new L<IO::Socket::SSL> object. You may use all the friendly options
that came bundled with the super class (e.g. L<IO::Socket::IP>,
L<IO::Socket::INET>, ...) plus (optionally) the ones described below.

If you don't specify any SSL related options it will do its best in using
secure defaults, e.g. choosing good ciphers, enabling proper verification, etc.

=over 2

=item SSL_server

Set this option to a true value if the socket
 should be used as a server.
If this is not explicitly set it is assumed if the C<Listen> parameter is given
when creating the socket.

=item SSL_hostname

This can be given to specify the hostname used for SNI, which is needed if you
have multiple SSL hostnames on the same IP address. If not given it will try to
determine the hostname from C<PeerAddr>, which will fail if only an IP was given or if
this argument is used within C<start_SSL>.

If you want to disable SNI, set this argument to ".

Currently only supported for the client side and will be ignored for the server
side.

See section "SNI Support" for details of SNI the support.

=item SSL_startHandshake

If this option is set to false (defaults to true) it will not start the SSL
handshake yet. This has to be done later with C<accept_SSL> or C<connect_SSL>.
Before the handshake is started read/write/etc. can be used to exchange plain
data.

=item SSL_keepSocketOnError

If this option is set to true (defaults to false) it will
 not close the
underlying TCP socket on errors. In most cases there is no real use for this
behavior since both sides of the TCP connection will probably have a
different idea of the current state of the connection.

=item SSL_ca | SSL_ca_file | SSL_ca_path

Usually you want to verify that the peer certificate has been signed by a
trusted certificate authority. In this case you should use this option to
specify the file (C<SSL_ca_file>) or directory (C<SSL_ca_path>) containing the
certificateZ<>(s) of the trusted certificate authorities.

C<SSL_ca_path> can also be an array or a string containing multiple path, where
the path are separated by the platform specific separator. This separator is
C<;> on DOS, Windows, Netware, C<,> on VMS and C<:> for all the other systems.
If multiple path are given at least one of these must be accessible.

You can also give a list of X509* certificate handles (like you get from
L<Net::SSLeay> or L<IO::Socket::SSL::Utils::PEM_xxx2cert>) with C<SSL_ca>. These
will
be added to the CA store before path and file and thus take precedence.
If neither SSL_ca, nor SSL_ca_file or SSL_ca_path are set it will use
C<default_ca()> to determine the user-set or system defaults.
If you really don't want to set a CA set SSL_ca_file or SSL_ca_path to
C<\undef> or SSL_ca to an empty list. (unfortunately C<''> is used by some
modules using L<IO::Socket::SSL> when CA is not explicitly given).

=item SSL_client_ca | SSL_client_ca_file

If verify_mode is VERIFY_PEER on the server side these options can be used to
set the list of acceptable CAs for the client. This way the client can select
they required certificate from a list of certificates.
The value for these options is similar to C<SSL_ca> and C<SSL_ca_file>.

=item SSL_fingerprint

Sometimes you have a self-signed certificate or a certificate issued by an
unknown CA and you really want to accept it, but don't want to disable
verification at all. In this case you can specify the fingerprint of the
certificate
as C<'algo$hex_fingerprint'>. C<algo> is a fingerprint algorithm
supported by OpenSSL, e.g. 'sha1','sha256'... and C<hex_fingerprint> is the
hexadecimal representation of the binary fingerprint. Any colons inside the
hex string will be ignored.

If you want to use the fingerprint of the pubkey inside the certificate instead
of the certificate use the syntax C<'algopubhex_fingerprint'> instead.
To get the fingerprint of an established connection you can use
C<get_fingerprint>.

It is also possible to skip C<algo$>, i.e. only specify the fingerprint. In
this case the likely algorithms will be automatically detected based on the
length of the digest string.

You can specify a list of fingerprints in case you have several acceptable
certificates.
If a fingerprint matches the topmost (i.e. leaf) certificate no additional
validations can make the verification fail.

=item SSL_cert_file | SSL_cert | SSL_key_file | SSL_key

If you create a server you usually need to specify a server
certificate which
should be verified by the client. Same is true for client certificates, which
should be verified by the server.
The certificate can be given as a file with SSL_cert_file or as an internal
representation of an X509* object (like you get from L<Net::SSLeay> or
L<IO::Socket::SSL::Utils::PEM_xxx2cert>) with SSL_cert.
If given as a file it will automatically detect the format.
Supported file formats are PEM, DER and PKCS#12, where PEM and PKCS#12 can
contain the certificate and the chain to use, while DER can only contain a single
certificate.

If given as a list of X509* please note, that the all the chain certificates
(e.g. all except the first) will be "consumed" by openssl and will be freed
if the SSL context gets destroyed - so you should never free them yourself. But
the servers certificate (e.g. the first) will not be consumed by openssl and
thus must be freed by the application.

For each certificate a key is need, which can either be given as a file with
SSL_key_file
or as an internal representation of an EVP_PKEY* object with
SSL_key (like you get from L<Net::SSLeay> or
L<IO::Socket::SSL::Utils::PEM_xxx2key>).
If a key was already given within the PKCS#12 file specified by SSL_cert_file
it will ignore any SSL_key or SSL_key_file.
If no SSL_key or SSL_key_file was given it will try to use the PEM file given
with SSL_cert_file again, maybe it contains the key too.

If your SSL server should be able to use different certificates on the same IP
address, depending on the name given by SNI, you can use a hash reference
instead of a file with C<<hostname => cert_file>>.

If your SSL server should be able to use both RSA and ECDSA certificates for the
same domain/IP a similar hash reference like with SNI is given. The
domain names used to specify the additional certificates should be
C<hostname%whatever>, i.e. C<hostname%ecc> or similar. This needs at least
OpenSSL 1.0.2. To let the server pick the certificate based on the clients
cipher preference C<SSL_honor_cipher_order>
should be set to false.

In case certs and keys are needed but not given it might fall back to builtin
defaults, see "Defaults for Cert, Key and CA".

Examples:

SSL_cert_file => 'mycert.pem',
SSL_key_file => 'mykey.pem',

```
SSL_cert_file => {
   "foo.example.org" => 'foo-cert.pem',
   "foo.example.org%ecc" => 'foo-ecc-cert.pem',
   "bar.example.org" => 'bar-cert.pem',
   # used when nothing matches or client does not support SNI
   " => 'default-cert.pem',
   '%ecc' => 'default-ecc-cert.pem',
},
SSL_key_file => {
   "foo.example.org" => 'foo-key.pem',
   "foo.example.org%ecc" => 'foo-ecc-key.pem',
   "bar.example.org" => 'bar-key.pem',
   # used when nothing matches or client does not support SNI
   " => 'default-key.pem',
   '%ecc' => 'default-ecc-key.pem',
}
```

=item SSL_passwd_cb

If your private key is encrypted, you might not want the default password prompt from Net::SSLeay. This option takes a reference to a subroutine that should return
the password required to decrypt your private key.

=item SSL_use_cert

If this is true, it forces IO::Socket::SSL to use a certificate and key, even if you are setting up an SSL client. If this is set to 0 (the default), then you will only need a certificate and key if you are setting up a server.

SSL_use_cert will implicitly be set if SSL_server is set.
For convenience it is also set if it was not given but a cert was given for use (SSL_cert_file or similar).

=item SSL_version

Sets the version of the SSL protocol used to transmit data.
'SSLv23' uses a handshake compatible with SSL2.0, SSL3.0 and TLS1.x, while 'SSLv2', 'SSLv3', 'TLSv1', 'TLSv1_1', 'TLSv1_2', or 'TLSv1_3' restrict handshake and protocol to the specified version.
All values are case-insensitive. Instead of 'TLSv1_1', 'TLSv1_2', and 'TLSv1_3' one can also use 'TLSv11', 'TLSv12', and 'TLSv13'. Support for 'TLSv1_1', 'TLSv1_2', and 'TLSv1_3' requires recent versions of Net::SSLeay and openssl.

Independent from the

handshake format you can limit to set of accepted SSL
versions by adding !version separated by ':'.

The default SSL_version is 'SSLv23:!SSLv3:!SSLv2' which means, that the
handshake format is compatible to SSL2.0 and higher, but that the successful
handshake is limited to TLS1.0 and higher, that is no SSL2.0 or SSL3.0 because
both of these versions have serious security issues and should not be used
anymore.
You can also use !TLSv1_1 and !TLSv1_2 to disable TLS versions 1.1 and 1.2 while
still allowing TLS version 1.0.

Setting the version instead to 'TLSv1' might break interaction with older
clients, which need and SSL2.0 compatible handshake. On the other
side some clients just close the connection when they receive a TLS version 1.1
request. In this case setting the version to
'SSLv23:!SSLv2:!SSLv3:!TLSv1_1:!TLSv1_2' might help.

=item SSL_cipher_list

If this option is set the cipher list for the connection will be set to the
given value, e.g. something like 'ALL:!LOW:!EXP:!aNULL'.
This will only affect
ciphers for TLS 1.2 and lower. See the OpenSSL documentation
(L<https://www.openssl.org/docs/manmaster/man1/openssl-ciphers.html#CIPHER-STRINGS>)
for more details.

Unless you fail to contact your peer because of no shared ciphers it is
recommended to leave this option at the default setting, which uses the system
default but disables some insecure ciphers which might still be enabled on older
systems.

In case different cipher lists are needed for different SNI hosts a hash can be
given with the host as key and the cipher suite as value, similar to
B<SSL_cert*>.

=item SSL_ciphersuites

If this option is set the TLS 1.3 ciphersuites for the connection will be
set to the given value. This is similar to SSL_cipher_list, but only for TLS 1.3
ciphers. See argument C<-ciphersuits> in the OpenSSL documentation
(L<https://www.openssl.org/docs/manmaster/man1/openssl-ciphers.html>) for
details.

Unless you fail to contact your peer because of no shared ciphers it is
recommended
to leave this option at the default setting, which uses the system
default.

In case different cipher lists are needed for different SNI hosts a hash can be given with the host as key and the cipher suite as value, similar to B<SSL_cert*>.

=item SSL_honor_cipher_order

If this option is true the cipher order the server specified is used instead of the order proposed by the client. This option defaults to true to make use of our secure cipher list setting.

=item SSL_dh_file

To create a server which provides forward secrecy you need to either give the DH parameters or (better, because faster) the ECDH curve. This setting cares about DH parameters.

To support non-elliptic Diffie-Hellman key exchange a suitable file needs to be given here or the SSL_dh should be used with an appropriate value. See dhparam command in openssl for more information.

If neither C<SSL_dh_file> nor C<SSL_dh> are set a builtin DH parameter with a length of 2048 bit is used to offer DH key exchange
by default. If you don't
want this (e.g. disable DH key exchange) explicitly set this or the C<SSL_dh> parameter to undef.

=item SSL_dh

Like SSL_dh_file, but instead of giving a file you use a preloaded or generated DH*.

=item SSL_ecdh_curve

To create a server which provides forward secrecy you need to either give the DH parameters or (better, because faster) the ECDH curve. This setting cares about the ECDH curve(s).

To support Elliptic Curve Diffie-Hellmann key exchange the OID or NID of at least one suitable curve needs to be provided here.

With OpenSSL 1.1.0+ this parameter defaults to C<auto>, which means that it lets OpenSSL pick the best settings. If support for CTX_set_ecdh_auto is implemented in Net::SSLeay (needs at least version 1.86) it will use this to implement the same default. Otherwise it will default to C<prime256v1> (builtin of OpenSSL) in order to offer ECDH key exchange by default.

If setting groups or curves is supported by Net::SSLeay (needs at least version

1.86) then multiple curves can be given here in the order of the
preference, i.e. C<P-521:P-384:P-256>. When used at the client side this
will include the supported curves as extension in the TLS handshake.

If you don't want to have ECDH key exchange this could be set to undef or
set C<SSL_ciphers> to exclude all of these ciphers.

You can check if ECDH support is available by calling
C<< IO::Socket::SSL->can_ecdh >>.

=item SSL_verify_mode

This option sets the verification mode for the peer certificate.
You may combine SSL_VERIFY_PEER (verify_peer), SSL_VERIFY_FAIL_IF_NO_PEER_CERT
(fail verification if no peer certificate exists; ignored for clients),
SSL_VERIFY_CLIENT_ONCE (verify client once; ignored for clients).
See OpenSSL man page for SSL_CTX_set_verify for more information.

The default is SSL_VERIFY_NONE for server (e.g. no check for client
certificate) and SSL_VERIFY_PEER for client (check server certificate).

=item SSL_verify_callback

If you want to verify certificates
yourself, you can pass a sub reference along
with this parameter to do so. When the callback is called, it will be passed:

=over 4

=item 1.
a true/false value that indicates what OpenSSL thinks of the certificate,

=item 2.
a C-style memory address of the certificate store,

=item 3.
a string containing the certificate's issuer attributes and owner attributes,
and

=item 4.
a string containing any errors encountered (0 if no errors).

=item 5.
a C-style memory address of the peer's own certificate (convertible to
PEM form with Net::SSLeay::PEM_get_string_X509()).

=item 6.
The depth of the certificate in the chain. Depth 0 is the leaf certificate.

=back

The function should return 1 or 0, depending on whether it thinks the
certificate is valid or invalid. The default is to let OpenSSL do all of the
busy work.

The callback will be called for each element in the certificate chain.

See the OpenSSL documentation for SSL_CTX_set_verify for more information.

=item SSL_verifycn_scheme

The
 scheme is used to correctly verify the identity inside the certificate
by using the hostname of the peer.
See the information about the verification schemes in B<verify_hostname>.

If you don't specify a scheme it will use 'default', but only complain loudly if
the name verification fails instead of letting the whole certificate
verification fail. THIS WILL CHANGE, e.g. it will let the certificate
verification fail in the future if the hostname does not match the certificate
!!!! To override the name used in verification use B<SSL_verifycn_name>.

The scheme 'default' is a superset of the usual schemes, which will accept the
hostname in common name and subjectAltName and allow wildcards everywhere.
While using this scheme is way more secure than no name verification at all you
better should use the scheme specific to your application protocol, e.g. 'http',
'ftp'...

If you are really sure, that you don't want to verify the identity using the
hostname you can use 'none' as
 a scheme. In this case you'd better have
alternative forms of verification, like a certificate fingerprint or do a manual
verification later by calling B<verify_hostname> yourself.

=item SSL_verifycn_publicsuffix

This option is used to specify the behavior when checking wildcards certificates
for public suffixes, e.g. no wildcard certificates for *.com or *.co.uk should
be accepted, while *.example.com or *.example.co.uk is ok.

If not specified it will simply use the builtin default of
L<IO::Socket::SSL::PublicSuffix>, you can create another object with
from_string or from_file of this module.

To disable verification of public suffix set this option to C<">.

=item SSL_verifycn_name

Set the name which is used in verification of hostname. If SSL_verifycn_scheme is set and no SSL_verifycn_name is given it will try to use SSL_hostname or PeerHost and PeerAddr settings and fail if no name can be determined.
If SSL_verifycn_scheme is not set it will use a default scheme and warn if it cannot
determine a hostname, but it will not fail.

Using PeerHost or PeerAddr works only if you create the connection directly with C<< IO::Socket::SSL->new >>, if an IO::Socket::INET object is upgraded with B<start_SSL> the name has to be given in B<SSL_verifycn_name> or B<SSL_hostname>.

=item SSL_check_crl

If you want to verify that the peer certificate has not been revoked by the signing authority, set this value to true. OpenSSL will search for the CRL in your SSL_ca_path, or use the file specified by SSL_crl_file. See the Net::SSLeay documentation for more details.
Note that this functionality appears to be broken with OpenSSL < v0.9.7b, so its use with lower versions will result in an error.

=item SSL_crl_file

If you want to specify the CRL file to be used, set this value to the pathname to be used. This must be used in addition to setting SSL_check_crl.

=item SSL_ocsp_mode

Defines how certificate revocation is done using OCSP (Online Status Revocation Protocol). The default
is to send a request for OCSP stapling to the server and
if the server sends an OCSP response back the result will be used.

Any other OCSP checking needs to be done manually with C<ocsp_resolver>.

The following flags can be combined with C<|>:

=over 8

=item SSL_OCSP_NO_STAPLE

Don't ask for OCSP stapling.
This is the default if SSL_verify_mode is VERIFY_NONE.

=item SSL_OCSP_TRY_STAPLE

Try OCSP stapling, but don't complain if it gets no stapled response back.
This is the default if SSL_verify_mode is VERIFY_PEER (the default).

=item SSL_OCSP_MUST_STAPLE

Consider it a hard error, if the server does not send a stapled OCSP response
back. Most servers currently send no stapled OCSP response back.

=item SSL_OCSP_FAIL_HARD

Fail hard on response errors, default is to fail soft like the browsers do.
Soft errors mean, that the OCSP response is not usable, e.g. no response,
error response, no valid signature etc.
Certificate revocations inside a verified response are considered hard
errors
in any case.

Soft errors inside a stapled response are never considered hard, e.g. it is
expected that in this case an OCSP request will be send to the responsible
OCSP responder.

=item SSL_OCSP_FULL_CHAIN

This will set up the C<ocsp_resolver> so that all certificates from the peer
chain will be checked, otherwise only the leaf certificate will be checked
against revocation.

=back

=item SSL_ocsp_staple_callback

If this callback is defined, it will be called with the SSL object and the OCSP
response handle obtained from the peer, e.g. C<<$cb->($ssl,$resp)>>.
If the peer did not provide a stapled OCSP response the function will be called
with C<$resp=undef>.
Because the OCSP response handle is no longer valid after leaving this function
it should not by copied or freed. If access to the response is necessary after
leaving this function it can be serialized with
C<Net::SSLeay::i2d_OCSP_RESPONSE>.

If no such callback is provided, it will use the default one, which verifies
the
response and uses it to check if the certificate(s) of the connection got
revoked.

=item SSL_ocsp_cache

With this option a cache can be given for caching OCSP responses, which could be shared between different SSL contexts. If not given a cache specific to the SSL context only will be used.

You can either create a new cache with C<< IO::Socket::SSL::OCSP_Cache->new([size]) >> or implement your own cache, which needs to have methods C<put($key,\%entry)> and C<get($key)> (returning C<\%entry>) where entry is the hash representation of the OCSP response with fields like C<nextUpdate>. The default implementation of the cache will consider responses valid as long as C<nextUpdate> is less then the current time.

=item SSL_reuse_ctx

If you have already set the above options for a previous instance of IO::Socket::SSL, then you can reuse the SSL context of that instance by passing it as the value for the SSL_reuse_ctx parameter. You may also create a new instance of the IO::Socket::SSL::SSL_Context class, using any context options that you desire without specifying connection options, and pass that here instead.

If you use this option, all other context-related options that you pass in the same call to new() will be ignored unless the context supplied was invalid. Note that, contrary to versions of IO::Socket::SSL below v0.90, a global SSL context will not be implicitly used unless you use the set_default_context() function.

=item SSL_create_ctx_callback

With this callback you can make individual settings to the context after it got created and the default setup was done.
The callback will be called with the CTX object from Net::SSLeay as the single argument.

Example for limiting the server session cache size:

```
 SSL_create_ctx_callback => sub {
     my $ctx = shift;
     Net::SSLeay::CTX_sess_set_cache_size($ctx,128);
 }
```

=item SSL_session_cache_size

If you make repeated connections to the same host/port and the SSL renegotiation time is an issue, you can turn on client-side session caching with this option by specifying a positive cache size. For successive connections, pass the SSL_reuse_ctx option to the new() calls (or use set_default_context()) to make

use of the cached sessions. The session cache size refers to the number of
unique host/port pairs that can be stored at one time; the oldest sessions in
the cache will be removed if new ones are added.

This option does not effect the session cache a server has for it's clients,
e.g. it does not affect SSL objects with SSL_server set.

Note that session caching with TLS 1.3 needs at least Net::SSLeay 1.86.

=item SSL_session_cache

Specifies session cache object which should be used instead of creating a new.
Overrules SSL_session_cache_size.
This option is useful if you want to reuse the cache, but not the rest of
the context.

A session cache object can be created using
C<< IO::Socket::SSL::Session_Cache->new(cachesize) >>.

Use set_default_session_cache() to set a global cache
 object.

=item SSL_session_key

Specifies a key to use for lookups and inserts into client-side session cache.
Per default ip:port of destination will be used, but sometimes you want to
share the same session over multiple ports on the same server (like with FTPS).

=item SSL_session_id_context

This gives an id for the servers session cache. It's necessary if you want
clients to connect with a client certificate. If not given but SSL_verify_mode
specifies the need for client certificate a context unique id will be picked.

=item SSL_error_trap

When using the accept() or connect() methods, it may be the case that the
actual socket connection works but the SSL negotiation fails, as in the case of
an HTTP client connecting to an HTTPS server. Passing a subroutine ref attached
to this parameter allows you to gain control of the orphaned socket instead of
having it be closed forcibly.
The subroutine, if called, will be passed two parameters:
a reference to the socket on which the SSL
 negotiation failed and the full
text of the error message.

=item SSL_npn_protocols

If used on the server side it specifies list of protocols advertised by SSL
server as an array ref, e.g. ['spdy/2','http1.1'].
On the client side it specifies the protocols offered by the client for NPN
as an array ref.
See also method C<next_proto_negotiated>.

Next Protocol Negotiation (NPN) is available with Net::SSLeay 1.46+ and
openssl-1.0.1+. NPN is unavailable in TLSv1.3 protocol.
To check support you might call C<< IO::Socket::SSL->can_npn() >>.
If you use this option with an unsupported Net::SSLeay/OpenSSL it will
throw an error.

=item SSL_alpn_protocols

If used on the server side it specifies list of protocols supported by the SSL
server as an array ref, e.g. ['http/2.0', 'spdy/3.1','http/1.1'].
On the client side it specifies the protocols advertised by the client for ALPN
as an array ref.
See also method C<alpn_selected>.

Application-Layer Protocol Negotiation (ALPN) is available with Net::SSLeay
1.56+
and openssl-1.0.2+. More details about the extension are in RFC7301. To
check support you might call C<< IO::Socket::SSL->can_alpn() >>. If you use
this option with an unsupported Net::SSLeay/OpenSSL it will throw an error.

Note that some client implementations may encounter problems if both NPN and
ALPN are specified. Since ALPN is intended as a replacement for NPN, try
providing ALPN protocols then fall back to NPN if that fails.

=item SSL_ticket_keycb => [$sub,$data] | $sub

This is a callback used for stateless session reuse (Session Tickets, RFC 5077).

This callback will be called as C<< $sub->($data,[$key_name]) >> where C<$data>
is the argument given to SSL_ticket_keycb (or undef) and C<$key_name> depends
on the mode:

=over 8

=item encrypt ticket

If a ticket needs to be encrypted the callback will be called without
C<$key_name>. In this case it should return C<($current_key,$current_key_name>)
where C<$current_key> is the current key (32 byte random data) and
C<$current_key_name>
the name associated with this key (exactly 16 byte). This
C<$current_key_name> will be incorporated into the ticket.

=item decrypt ticket

If a ticket needs to be decrypted the callback will be called with C<$key_name> as found in the ticket. It should return C<($key,$current_key_name>) where C<$key> is the key associated with the given C<$key_name> and C<$current_key_name> the name associated with the currently active key.
If C<$current_key_name> is different from the given C<$key_name> the callback will be called again to re-encrypt the ticket with the currently active key.

If no key can be found which matches the given C<$key_name> then this function should return nothing (empty list).

This mechanism should be used to limit the life time for each key encrypting the ticket. Compromise of a ticket encryption key might lead to decryption of SSL sessions which used session tickets protected by this key.

=back

Example:

```
  Net::SSLeay::RAND_bytes(my $oldkey,32);
   Net::SSLeay::RAND_bytes(my $newkey,32);
  my $oldkey_name = pack("a16",'oldsecret');
  my $newkey_name = pack("a16",'newsecret');

  my @keys = (
    [ $newkey_name, $newkey ], # current active key
    [ $oldkey_name, $oldkey ], # already expired
  );

  my $keycb = [ sub {
    my ($mykeys,$name) = @_;

    # return (current_key, current_key_name) if no name given
    return ($mykeys->[0][1],$mykeys->[0][0]) if ! $name;

    # return (matching_key, current_key_name) if we find a key matching
    # the given name
    for(my $i = 0; $i<@$mykeys; $i++) {
   next if $name ne $mykeys->[$i][0];
   return ($mykeys->[$i][1],$mykeys->[0][0]);
    }

    # no matching key found
    return;
  },\@keys ];
```

```
  my $srv = IO::Socket::SSL->new(..., SSL_ticket_keycb => $keycb);
```

=item SSL_mode_release_buffers 1|0

This enables or disables the SSL_MODE_RELEASE_BUFFERS option on the SSL object.
With this option the read buffer will be released after
each SSL_read but will
need to be reallocated for each new SSL_read. If memory usage is a concern this
might save lots of memory in the mean time though, about 34k per idle SSL
connection according to the documentation in SSL_CTX_set_mode(3ssl).

=back

=item B<accept>

This behaves similar to the accept function of the underlying socket class, but
additionally does the initial SSL handshake. But because the underlying socket
class does return a blocking file handle even when accept is called on a
non-blocking socket, the SSL handshake on the new file object will be done in a
blocking way. Please see the section about non-blocking I/O for details.
If you don't like this behavior you should do accept on the TCP socket and then
upgrade it with C<start_SSL> later.

=item B<connect(...)>

This behaves similar to the connect function but also does an SSL handshake.
Because you cannot give SSL specific arguments to this function, you should
better either use C<new> to create a connect SSL
socket or C<start_SSL> to
upgrade an established TCP socket to SSL.

=item B<close(...)>

Contrary to a close for a simple INET socket a close in SSL also mandates a
proper shutdown of the SSL part. This is done by sending a close notify message
by both peers.

A naive implementation would thus wait until it receives the
close notify message from the peer - which conflicts with the commonly expected
semantic that a close will not block. The default behavior is thus to only send
a close notify but not wait for the close notify of the peer. If this is
required C<SSL_fast_shutdown> need to be explicitly set to false.

There are also cases where a SSL shutdown should not be done at all. This is
true for example when forking to let a child deal with the socket and closing
the socket in the parent process. A naive explicit C<close> or an implicit close
when destroying the socket in the parent would send a close notify to the peer
which would make the SSL socket in the client process unusable.

In this case an
explicit C<close> with C<SSL_no_shutdown> set to true should be done in the
parent process.

For more details and other arguments see C<stop_SSL> which gets called from
C<close> to shutdown the SSL state of the socket.

=item B<sysread(BUF, LEN, [OFFSET])>

This function behaves from the outside the same as B<sysread> in other
L<IO::Socket> objects, e.g. it returns at most LEN bytes of data.
But in reality it reads not only LEN bytes from the underlying socket, but at
a single SSL frame. It then returns up to LEN bytes it decrypted from this SSL
frame. If the frame contained more data than requested it will return only LEN
data, buffer the rest and return it on further read calls.
This means, that it might be possible to read data, even if the underlying
socket is not readable, so using poll or select might not be sufficient.

sysread will only return data from a single SSL frame, e.g. either the pending
data from the already buffered frame or it will read a frame
from the underlying
socket and return the decrypted data. It will not return data spanning several
SSL frames in a single call.

Also, calls to sysread might fail, because it must first finish an SSL
handshake.

To understand these behaviors is essential, if you write applications which use
event loops and/or non-blocking sockets. Please read the specific sections in
this documentation.

=item B<syswrite(BUF, [LEN, [OFFSET]])>

This functions behaves from the outside the same as B<syswrite> in other
L<IO::Socket> objects, e.g. it will write at most LEN bytes to the socket, but
there is no guarantee, that all LEN bytes are written. It will return the number
of bytes written.
Because it basically just calls SSL_write from OpenSSL syswrite will write at
most a single SSL frame. This means, that no more than 16.384 bytes, which is
the maximum size of an SSL frame, will be written at once.

For non-blocking sockets SSL specific behavior applies.
Pease read the specific section in this
documentation.

=item B<peek(BUF, LEN, [OFFSET])>

This function has exactly the same syntax as B<sysread>, and performs nearly the

same task but will not advance the read position so that successive calls to peek() with the same arguments will return the same results. This function requires OpenSSL 0.9.6a or later to work.

=item B<pending()>

This function gives you the number of bytes available without reading from the underlying socket object. This function is essential if you work with event loops, please see the section about polling SSL sockets.

=item B<get_fingerprint([algo,certificate,pubkey])>

This methods returns the fingerprint of the given certificate in the form C<algo$digest_hex>, where C<algo> is the used algorithm, default 'sha256'.
If no certificate is given the peer certificate of the connection is used.
If C<pubkey> is true it will not return the fingerprint of the certificate but instead the fingerprint of the pubkey inside the certificate as C<algopubdigest_hex>.

=item
B<get_fingerprint_bin([algo,certificate,pubkey])>

This methods returns the binary fingerprint of the given certificate by using the algorithm C<algo>, default 'sha256'.
If no certificate is given the peer certificate of the connection is used.
If C<pubkey> is true it will not return the fingerprint of the certificate but instead the fingerprint of the pubkey inside the certificate.

=item B<get_cipher()>

Returns the string form of the cipher that the IO::Socket::SSL object is using.

=item B<get_sslversion()>

Returns the string representation of the SSL version of an established connection.

=item B<get_sslversion_int()>

Returns the integer representation of the SSL version of an established connection.

=item B<get_session_reused()>

This returns true if the session got reused and false otherwise. Note that with a reused session no certificates are send within the handshake and no ciphers are offered and thus functions which rely on this might not work.

=item B<dump_peer_certificate()>

Returns
 a parsable string with select fields from the peer SSL certificate.
This method directly returns the result of the dump_peer_certificate() method of
Net::SSLeay.

=item B<peer_certificate($field;[$refresh])>

If a peer certificate exists, this function can retrieve values from it.
If no field is given the internal representation of certificate from Net::SSLeay
is returned.
If refresh is true it will not used a cached version, but check again in case
the certificate of the connection has changed due to renegotiation.

The following fields can be queried:

=over 8

=item authority (alias issuer)

The certificate authority which signed the certificate.

=item owner (alias subject)

The owner of the certificate.

=item commonName (alias cn) - only for Net::SSLeay version >=1.30

The common name, usually the server name for SSL certificates.

=item subjectAltNames - only for Net::SSLeay version >=1.33

Alternative names for the subject, usually different names
 for the same
server, like example.org, example.com, *.example.com.

It returns a list of (typ,value) with typ GEN_DNS, GEN_IPADD etc (these
constants are exported from IO::Socket::SSL).
See Net::SSLeay::X509_get_subjectAltNames.

=back

=item B<sock_certificate($field)>

This is similar to C<peer_certificate> but will return the sites own
certificate. The same arguments for B<$field> can be used.
If no B<$field> is given the certificate handle from the underlying OpenSSL will

be returned. This handle will only be valid as long as the SSL connection exists
and if used afterwards it might result in strange crashes of the application.

=item B<peer_certificates>

This returns all the certificates send by the peer, e.g. first the peers own
certificate and then the rest of the chain. You might use B<CERT_asHash> from
L<IO::Socket::SSL::Utils> to inspect each of the certificates.

This function depends on a version of Net::SSLeay >= 1.58 .

=item B<get_servername>

This gives the name requested
by the client if Server Name Indication
(SNI) was used.

=item B<verify_hostname($hostname,$scheme,$publicsuffix)>

This verifies the given hostname against the peer certificate using the
given scheme. Hostname is usually what you specify within the PeerAddr.
See the C<SSL_verifycn_publicsuffix> parameter for an explanation of suffix
checking and for the possible values.

Verification of hostname against a certificate is different between various
applications and RFCs. Some scheme allow wildcards for hostnames, some only
in subjectAltNames, and even their different wildcard schemes are possible.
RFC 6125 provides a good overview.

To ease the verification the following schemes are predefined (both protocol
name and rfcXXXX name can be used):

=over 8

=item rfc2818, xmpp (rfc3920), ftp (rfc4217)

Extended wildcards in subjectAltNames and common name are possible, e.g.
.example.org or even www.example.org. The common
name will be only checked if no DNS names are given in subjectAltNames.

=item
http (alias www)

While name checking is defined in rfc2818 the current browsers usually accept
also an IP address (w/o wildcards) within the common name as long as no
subjectAltNames are defined. Thus this is rfc2818 extended with this feature.

=item smtp (rfc2595), imap, pop3, acap (rfc4642), netconf (rfc5538), syslog (rfc5425), snmp (rfc5953)

Simple wildcards in subjectAltNames are possible, e.g. *.example.org matches www.example.org but not lala.www.example.org. If nothing from subjectAltNames match it checks against the common name, where wildcards are also allowed to match the full leftmost label.

=item ldap (rfc4513)

Simple wildcards are allowed in subjectAltNames, but not in common name. Common name will be checked even if subjectAltNames exist.

=item sip (rfc5922)

No wildcards are allowed and common name is checked even if subjectAltNames exist.

=item gist (rfc5971)

Simple wildcards are allowed in subjectAltNames and common name, but common name will
only be checked if their are no DNS names in subjectAltNames.

=item default

This is a superset of all the rules and is automatically used if no scheme is given but a hostname (instead of IP) is known.
Extended wildcards are allowed in subjectAltNames and common name and common name is checked always.

=item none

No verification will be done.
Actually is does not make any sense to call verify_hostname in this case.

=back

The scheme can be given either by specifying the name for one of the above predefined schemes, or by using a hash which can have the following keys and values:

=over 8

=item check_cn: 0|'always'|'when_only'

Determines if the common name gets checked. If 'always' it will always be checked (like in ldap), if 'when_only' it will only be checked if no names are given in subjectAltNames (like in http), for any other values the common name will not be checked.

=item wildcards_in_alt: 0|'full_label'|'anywhere'

Determines if and where wildcards in subjectAltNames are
possible. If
'full_label' only cases like *.example.org will be possible (like in ldap), for
'anywhere' www*.example.org is possible too (like http), dangerous things like
but www.*.org or even '*' will not be allowed.
For compatibility with older versions 'leftmost' can be given instead of
'full_label'.

=item wildcards_in_cn: 0|'full_label'|'anywhere'

Similar to wildcards_in_alt, but checks the common name. There is no predefined
scheme which allows wildcards in common names.

=item ip_in_cn: 0|1|4|6

Determines if an IP address is allowed in the common name (no wildcards are
allowed). If set to 4 or 6 it only allows IPv4 or IPv6 addresses, any other
true value allows both.

=item callback: \&coderef

If you give a subroutine for verification it will be called with the arguments
($hostname,$commonName,@subjectAltNames), where hostname is the name given for
verification, commonName is the result from peer_certificate('cn') and
subjectAltNames is the result from peer_certificate('subjectAltNames').

All
other arguments for the verification scheme will be ignored in this case.

=back

=item B<next_proto_negotiated()>

This method returns the name of negotiated protocol - e.g. 'http/1.1'. It works
for both client and server side of SSL connection.

NPN support is available with Net::SSLeay 1.46+ and openssl-1.0.1+.
To check support you might call C<< IO::Socket::SSL->can_npn() >>.

=item B<alpn_selected()>

Returns the protocol negotiated via ALPN as a string, e.g. 'http/1.1',
'http/2.0' or 'spdy/3.1'.

ALPN support is available with Net::SSLeay 1.56+ and openssl-1.0.2+.

To check support, use C<< IO::Socket::SSL->can_alpn() >>.

=item B<errstr()>

Returns the last error (in string form) that occurred. If you do not have a real object to perform this method on, call IO::Socket::SSL::errstr() instead.

For read and write errors on non-blocking sockets, this method may include the string C<SSL wants a read first!> or C<SSL wants a write first!> meaning that the other side is expecting to read from or write to the socket and wants to be satisfied before you get to do anything. But with version 0.98 you are better comparing the global exported variable $SSL_ERROR against the exported symbols SSL_WANT_READ and SSL_WANT_WRITE.

=item B<opened()>

This returns false if the socket could not be opened, 1 if the socket could be opened and the SSL handshake was successful done and -1 if the underlying IO::Handle is open, but the SSL handshake failed.

=item B<< IO::Socket::SSL->start_SSL($socket, ...) >>

This will convert a glob reference or a socket that you provide to an IO::Socket::SSL object. You may also pass parameters to specify context or connection options as with a call to new(). If you are using this function on an accept()ed socket, you must set the parameter "SSL_server" to 1, i.e. IO::Socket::SSL->start_SSL($socket, SSL_server => 1). If you have a class that inherits from IO::Socket::SSL and you want the $socket to be blessed into your own class instead, use MyClass->start_SSL($socket) to achieve the desired effect.

Note that if start_SSL() fails in SSL negotiation, $socket will remain blessed in its original class. For non-blocking sockets you better just upgrade the socket to IO::Socket::SSL and call accept_SSL or connect_SSL and the upgraded object. To just upgrade the socket set B<SSL_startHandshake> explicitly to 0. If you call start_SSL w/o this parameter it will revert to blocking behavior for accept_SSL and connect_SSL.

If given the parameter "Timeout" it will stop if after the timeout no SSL connection was established. This parameter is only used for blocking sockets, if it is not given the default Timeout from the underlying IO::Socket will be used.

=item B<stop_SSL(...)>

This is the opposite of start_SSL(), connect_SSL() and accept_SSL(), e.g. it

will shutdown the SSL connection and return to the class before start_SSL(). It gets the same arguments as close(), in fact close() calls stop_SSL() (but without
 downgrading the class).

Will return true if it succeeded and undef if failed. This might be the case for non-blocking sockets. In this case $! is set to EWOULDBLOCK and the ssl error to SSL_WANT_READ or SSL_WANT_WRITE. In this case the call should be retried again with the same arguments once the socket is ready.

For calling from C<stop_SSL> C<SSL_fast_shutdown> default to false, e.g. it waits for the close_notify of the peer. This is necessary in case you want to downgrade the socket and continue to use it as a plain socket.

After stop_SSL the socket can again be used to exchange plain data.

=item B<connect_SSL>, B<accept_SSL>

These functions should be used to do the relevant handshake, if the socket got created with C<new> or upgraded with C<start_SSL> and C<SSL_startHandshake> was set to false.
They will return undef until the handshake succeeded or an error got thrown.
As long as the function returns undef and $! is set to EWOULDBLOCK one could retry the call after the socket
 got readable (SSL_WANT_READ) or writeable
(SSL_WANT_WRITE).

=item B<ocsp_resolver>

This will create an OCSP resolver object, which can be used to create OCSP requests for the certificates of the SSL connection. Which certificates are verified depends on the setting of C<SSL_ocsp_mode>: by default only the leaf certificate will be checked, but with SSL_OCSP_FULL_CHAIN all chain certificates will be checked.

Because to create an OCSP request the certificate and its issuer certificate need to be known it is not possible to check certificates when the trust chain is incomplete or if the certificate is self-signed.

The OCSP resolver gets created by calling C<< $ssl->ocsp_resolver >> and provides the following methods:

=over 8

=item hard_error

This returns the hard error when checking the OCSP response.
Hard errors are certificate revocations. With the C<SSL_ocsp_mode> of

SSL_OCSP_FAIL_HARD any soft error (e.g. failures to get signed information about the certificates) will be considered
a hard error too.

The OCSP resolving will stop on the first hard error.

The method will return undef as long as no hard errors occurred and still requests to be resolved. If all requests got resolved and no hard errors occurred the method will return C<">.

=item soft_error

This returns the soft error(s) which occurred when asking the OCSP responders.

=item requests

This will return a hash consisting of C<(url,request)>-tuples, e.g. which contain the OCSP request string and the URL where it should be sent too. The usual way to send such a request is as HTTP POST request with a content-type of C<application/ocsp-request> or as a GET request with the base64 and url-encoded request is added to the path of the URL.

After you've handled all these requests and added the response with C<add_response> you should better call this method again to make sure, that no more requests are outstanding. IO::Socket::SSL will combine multiple OCSP requests for the same server inside a single
request, but some server don't
give a response to all these requests, so that one has to ask again with the remaining requests.

=item add_response($uri,$response)

This method takes the HTTP body of the response which got received when sending the OCSP request to C<$uri>. If no response was received or an error occurred one should either retry or consider C<$response> as empty which will trigger a soft error.

The method returns the current value of C<hard_error>, e.g. a defined value when no more requests need to be done.

=item resolve_blocking(%args)

This combines C<requests> and C<add_response> which L<HTTP::Tiny> to do all necessary requests in a blocking way. C<%args> will be given to L<HTTP::Tiny> so that you can put proxy settings etc here. L<HTTP::Tiny> will be called with C<verify_SSL> of false, because the OCSP responses have their own signatures so no extra SSL verification is needed.

If you don't want to use blocking requests you need to roll your own user agent
with C<requests>
 and C<add_response>.

=back

=item B<< IO::Socket::SSL->new_from_fd($fd, [mode], %sslargs) >>

This will convert a socket identified via a file descriptor into an SSL socket.
Note that the argument list does not include a "MODE" argument; if you supply
one, it will be thoughtfully ignored (for compatibility with IO::Socket::INET).
Instead, a mode of '+<' is assumed, and the file descriptor passed must be able
to handle such I/O because the initial SSL handshake requires bidirectional
communication.

Internally the given $fd will be upgraded to a socket object using the
C<new_from_fd> method of the super class (L<IO::Socket::INET> or similar) and
then C<start_SSL> will be called using the given C<%sslargs>.
If C<$fd> is already an IO::Socket object you should better call C<start_SSL>
directly.

=item B<IO::Socket::SSL::default_ca([path|dir| SSL_ca_file => ..., SSL_ca_path => ...])>

Determines or sets the default CA path.
If existing path or dir or a hash is given it will set
 the default CA path to
this value and never try to detect it automatically.
If C<undef> is given it will forget any stored defaults and continue with
detection of system defaults.
If no arguments are given it will start detection of system defaults, unless it
has already stored user-set or previously detected values.

The detection of system defaults works similar to OpenSSL, e.g. it will check
the directory specified in environment variable SSL_CERT_DIR or the path
OPENSSLDIR/certs (SSLCERTS: on VMS) and the file specified in environment
variable SSL_CERT_FILE or the path OPENSSLDIR/cert.pem (SSLCERTS:cert.pem on
VMS). Contrary to OpenSSL it will check if the SSL_ca_path contains PEM files
with the hash as file name and if the SSL_ca_file looks like PEM.
If no usable system default can be found it will try to load and use
L<Mozilla::CA> and if not available give up detection.
The result of the detection will be saved to speed up future calls.

The function returns the saved default
 CA as hash with SSL_ca_file and
SSL_ca_path.

=item B<IO::Socket::SSL::set_default_context(...)>

You may use this to make IO::Socket::SSL automatically re-use a given context
(unless specifically overridden in a call to new()).
It accepts one argument, which should be either an IO::Socket::SSL object or an
IO::Socket::SSL::SSL_Context object.
See the SSL_reuse_ctx option of new() for more details.
Note that this sets the default context globally, so use with caution (esp. in
mod_perl scripts).

=item B<IO::Socket::SSL::set_default_session_cache(...)>

You may use this to make IO::Socket::SSL automatically re-use a given session
cache (unless specifically overridden in a call to new()).
It accepts one argument, which should be an IO::Socket::SSL::Session_Cache
object or similar (e.g. something which implements get_session, add_session and
del_session like IO::Socket::SSL::Session_Cache does).
See the SSL_session_cache option of new() for more details.
Note that this sets the default cache
 globally, so use with caution.

=item B<IO::Socket::SSL::set_defaults(%args)>

With this function one can set defaults for all SSL_* parameter used for
creation of the context, like the SSL_verify* parameter. Any SSL_* parameter can
be given or the following short versions:

=over 8

=item mode - SSL_verify_mode

=item callback - SSL_verify_callback

=item scheme - SSL_verifycn_scheme

=item name - SSL_verifycn_name

=back

=item B<IO::Socket::SSL::set_client_defaults(%args)>

Similar to C<set_defaults>, but only sets the defaults for client mode.

=item B<IO::Socket::SSL::set_server_defaults(%args)>

Similar to C<set_defaults>, but only sets the defaults for server mode.

=item B<IO::Socket::SSL::set_args_filter_hack(\&code|'use_defaults')>

Sometimes one has to use code which uses unwanted or invalid arguments for SSL,

typically disabling SSL verification or setting wrong ciphers or SSL versions.
With this hack it is possible to override these settings and restore sanity.
Example:

```
   IO::Socket::SSL::set_args_filter_hack( sub {
 my ($is_server,$args) = @_;
 if ( ! $is_server ) {
    # client settings - enable verification with default CA
    # and fallback hostname verification etc
    delete @{$args}{qw(
  SSL_verify_mode
  SSL_ca_file
  SSL_ca_path
  SSL_verifycn_scheme
  SSL_version
    )};
    # and add some fingerprints for known certs which are signed by
    # unknown CAs or are self-signed
    $args->{SSL_fingerprint} = ...
 }
   });
```

With the short setting C<set_args_filter_hack('use_defaults')> it will prefer
the default settings in all cases. These default settings can be modified with
C<set_defaults>, C<set_client_defaults> and C<set_server_defaults>.

=back

The following methods are unsupported (not to mention futile!) and
IO::Socket::SSL will emit a large CROAK() if you are silly enough to use them:

=over 4

=item truncate

=item stat

=item ungetc

=item setbuf

=item setvbuf

=item fdopen

=item send/recv

Note that send() and recv()

cannot be reliably trapped by a tied filehandle
(such as that used by IO::Socket::SSL) and so may send unencrypted data over the
socket. Object-oriented calls to these functions will fail, telling you to use
the print/printf/syswrite and read/sysread families instead.

=back

=head1 DEPRECATIONS

The following functions are deprecated and are only retained for compatibility:

=over 2

=item context_init()

use the SSL_reuse_ctx option if you want to re-use a context

=item socketToSSL() and socket_to_SSL()

use IO::Socket::SSL->start_SSL() instead

=item kill_socket()

use close() instead

=item get_peer_certificate()

use the peer_certificate() function instead.
Used to return X509_Certificate with methods subject_name and issuer_name.
Now simply returns $self which has these methods (although deprecated).

=item issuer_name()

use peer_certificate('issuer') instead

=item subject_name()

use peer_certificate('subject') instead

=back

=head1 EXAMPLES

See the 'example' directory,
the tests in 't' and also the tools in 'util'.

=head1 BUGS

If you use IO::Socket::SSL together with threads you should load it (e.g. use or require) inside the main thread before creating any other threads which use it. This way it is much faster because it will be initialized only once. Also there are reports that it might crash the other way.

Creating an IO::Socket::SSL object in one thread and closing it in another thread will not work.

IO::Socket::SSL does not work together with Storable::fd_retrieve/fd_store. See BUGS file for more information and how to work around the problem.

Non-blocking and timeouts (which are based on non-blocking) are not supported on Win32, because the underlying IO::Socket::INET does not support non-blocking on this platform.

If you have a server and it looks like you have a memory leak you might check the size of your session cache. Default for Net::SSLeay seems to be 20480, see the example for SSL_create_ctx_callback for how to limit it.

TLS
1.3 support regarding session reuse is incomplete.

=head1 SEE ALSO

IO::Socket::INET, IO::Socket::INET6, IO::Socket::IP, Net::SSLeay.

=head1 THANKS

Many thanks to all who added patches or reported bugs or helped IO::Socket::SSL another way. Please keep reporting bugs and help with patches, even if they just fix the documentation.

Special thanks to the team of Net::SSLeay for the good cooperation.

=head1 AUTHORS

Steffen Ullrich, <sullr at cpan.org> is the current maintainer.

Peter Behroozi, <behrooz at fas.harvard.edu> (Note the lack of an "i" at the end of "behrooz")

Marko Asplund, <marko.asplund at kronodoc.fi>, was the original author of IO::Socket::SSL.

Patches incorporated from various people, see file Changes.

=head1 COPYRIGHT

The original versions of this module are Copyright (C) 1999-2002 Marko Asplund.

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Found in path(s):
* /opt/cola/permits/1871146415_1703021888.4795954/0/libio-socket-ssl-perl-2-074-orig-1-tar-gz/IO-Socket-SSL-2.074/lib/IO/Socket/SSL.pod
No license file was found, but licenses were detected in source scan.

// This Source Code Form is subject to the terms of the Mozilla Public

Found in path(s):
* /opt/cola/permits/1871146415_1703021888.4795954/0/libio-socket-ssl-perl-2-074-orig-1-tar-gz/IO-Socket-SSL-2.074/lib/IO/Socket/SSL/PublicSuffix.pm

1.1978 go.mongodb.org-mongo-driver 1.13.1

1.1978.1 Available under license :

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1.1979 jsonpatch 5.7.0+incompatible

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1.1980 minipass-collect 2.0.1

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1.1981 markdown-it-py 3.0.0

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1.1982 go-proxyproto 0.7.0

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1.1983 github.com/pires/go-proxyproto 0.7.0

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1.1984 github.com/golang-jwt/jwt/v5 5.2.0

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1.1985 mongo-driver 1.13.1

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localtime.go, localtime_test.go:

Originals:
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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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1.1988 fluxcd-pkg-tar 0.4.0

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1.1989 homeport-dyff 1.6.0

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1.1990 go-git-go-git 5.11.0

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1.1991 diffutils 3.10-r0

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1.1992 yaml-cpp 0.8.0-r0

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1.1993 github.com/armon/go-proxyproto 0.1.0

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1.1995 metrics 4.2.23

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1.1996 google-uuid 1.5.0

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1.1997 spf13-afero 1.11.0

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1.1998 go-plugin 1.6.0

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1.2004 libldm 0.2.5-1

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1.2005 msr-tools 1.3-4

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*/

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*
* ------------------------------------------------------------------------- */
```

Found in path(s):
* /opt/cola/permits/1880237493_1704403622.8461916/0/msr-tools-1-3-orig-1-tar-gz/msr-tools-1.3/wrmsr.c
* /opt/cola/permits/1880237493_1704403622.8461916/0/msr-tools-1-3-orig-1-tar-gz/msr-tools-1.3/rdmsr.c

1.2006 hivex 1.3.21-1ubuntu5

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1.2007 ipxe 1.21.1+git-20220113.fbbdc3926-0ubuntu1

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the work with the complete corresponding
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```
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*)

(* This is the traditional virt-sparsify mode: We copy from a
* source disk to a destination disk.
*)

open Unix
open Printf

open Std_utils
open Tools_utils
open Common_gettext.Gettext
open Unix_utils

open Utils
open
 Cmdline

module G = Guestfs
```

```
type tmp_place =
| Directory of string | Block_device of string | Prebuilt_file of string

let run indisk outdisk check_tmpdir compress convert
  format ignores option tmp_param zeroes ks =

 (* Once we have got past argument parsing and start to create
  * temporary files (including the potentially massive overlay file), we
  * need to catch SIGINT (^C) and exit cleanly so the temporary file
  * goes away.  Note that we don't delete temporaries in the signal
  * handler.
  *)
 let do_sigint _ = exit 1 in
 Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);

 (* What should the output format be?  If the user specified an
  * input format, use that, else detect it from the source image.
  *)
 let output_format =
  match convert with
  | Some fmt -> fmt          (* user specified output conversion *)
  | None ->
    match format with
    | Some fmt -> fmt    (* user specified input format, use that *)
    | None ->
      (*
 Don't know, so we must autodetect. *)
      match (open_guestfs ())#disk_format indisk  with
      | "unknown" ->
        error (f_"cannot detect input disk format; use the --format parameter")
      | fmt -> fmt in

 (* Compression is not supported by raw output (RHBZ#852194). *)
 if output_format = "raw" && compress then
  error (f_"--compress cannot be used for raw output.  Remove this option or use --convert qcow2.");

 (* Use TMPDIR or --tmp parameter? *)
 let tmp_place =
  match tmp_param with
  | None -> Directory (Filename.get_temp_dir_name ()) (* $TMPDIR or /tmp *)
  | Some dir when is_directory dir -> Directory dir
  | Some dev when is_block_device dev -> Block_device dev
  | Some file when String.is_prefix file "prebuilt:" ->
    let file = String.sub file 9 (String.length file - 9) in
    if not (Sys.file_exists file) then
      error (f_"--tmp prebuilt:file: %s: file does not exist") file;
    let g = open_guestfs () in
    if g#disk_format
```

```
 file <> "qcow2" then
      error (f_"--tmp prebuilt:file: %s: file format is not qcow2") file;
    if not (g#disk_has_backing_file file) then
      error (f_"--tmp prebuilt:file: %s: file does not have backing file")
        file;
    Prebuilt_file file
  | Some path ->
    error (f_"--tmp parameter must point to a directory, block device or prebuilt file") in

(* Check there is enough space in temporary directory. *)
(match tmp_place with
| Block_device _
| Prebuilt_file _ -> ()
| Directory tmpdir ->
  (* Get virtual size of the input disk. *)
  let virtual_size = (open_guestfs ())#disk_virtual_size indisk in
  debug "input disk virtual size is %Ld bytes (%s)"
        virtual_size (human_size virtual_size);

  let print_warning () =
    let free_space = StatVFS.free_space (StatVFS.statvfs tmpdir) in
    let extra_needed = virtual_size -^ free_space in
    if extra_needed > 0L then (
      warning (f_"\
There may not be enough free space on
 %s.
You may need to set TMPDIR to point to a directory with more free space.

Max needed: %s.  Free: %s.  May need another %s.

Note this is an overestimate.  If the guest disk is full of data
then not as much free space would be required.

You can ignore this warning or change it to a hard failure using the
--check-tmpdir=(ignore|continue|warn|fail) option.  See virt-sparsify(1).

%!")
        tmpdir (human_size virtual_size)
        (human_size free_space) (human_size extra_needed);
      true
    ) else false
  in

  match check_tmpdir with
  | `Ignore -> ()
  | `Continue -> ignore (print_warning ())
  | `Warn ->
    if print_warning () then (
```

```
      eprintf "Press RETURN to continue or ^C to quit.\n%!";
      ignore (read_line ())
    );
  | `Fail ->
    if print_warning () then (
      eprintf "Exiting because --check-tmpdir=fail was set.\n%!";
      exit 2
    )
);

(* Create the temporary overlay file. *)
let overlaydisk =
  (match tmp_place
with
  | Directory tmpdir ->
     message (f_"Create overlay file in %s to protect source disk") tmpdir
  | Block_device device ->
     message (f_"Create overlay device %s to protect source disk") device
  | Prebuilt_file file ->
     message (f_"Using prebuilt file %s as overlay") file
  );

  (* Create 'tmp' with the indisk as the backing file. *)
  let create tmp =
    let g = open_guestfs () in
    g#disk_create
      ~backingfile:indisk ?backingformat:format ~compat:"1.1"
      tmp "qcow2" Int64.minus_one
  in

  match tmp_place with
  | Directory temp_dir ->
    let tmp = Filename.temp_file ~temp_dir "sparsify" ".qcow2" in
    unlink_on_exit tmp;
    create tmp;
    tmp

  | Block_device device ->
    create device;
    device

  | Prebuilt_file file ->
    (* Don't create anything, use the prebuilt file as overlay. *)
    file in

message (f_"Examine source disk");

(* Connect to libguestfs. *)
```

```
let g =
  let g =
open_guestfs () in

  (* Note that the temporary overlay disk is always qcow2 format. *)
  g#add_drive ~format:"qcow2" ~readonly:false ~cachemode:"unsafe" overlaydisk;

  if not (quiet ()) then (
    let machine_readable = machine_readable () <> None in
    Progress.set_up_progress_bar ~machine_readable g
  );
  g#launch ();

  g in

(* Decrypt the disks. *)
inspect_decrypt g ks;

(* Modify SIGINT handler (set first above) to cancel the handle. *)
let do_sigint _ =
  g#user_cancel ();
  exit 1
in
Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);

(* Write zeroes for non-ignored filesystems that we are able to mount,
 * and selected swap partitions.
 *)
let filesystems = g#list_filesystems () in
let btrfs_filesystems = List.filter (
  fun (fs, fstype) ->
    fstype = "btrfs"
) filesystems in
let btrfs_filesystems = List.map fst btrfs_filesystems in
let filesystems = List.map fst filesystems in
let filesystems = List.sort compare
filesystems in

let is_ignored fs =
  let fs = g#canonical_device_name fs in
  List.exists (fun fs' -> fs = g#canonical_device_name fs') ignores
in

let is_read_only_lv = is_read_only_lv g in

let is_readonly_btrfs_snapshot fs mp =
  try
    let is_btrfs = List.mem fs btrfs_filesystems in
```

```
    if is_btrfs then (
      try
        let vol_info = g#btrfs_subvolume_show mp in
        String.find (List.assoc "Flags" vol_info) "readonly" <> -1
      with G.Error _ -> false
    ) else false
  with Not_found -> false
in

let is_readonly_device mp =
  let statvfs = g#statvfs mp in
  let flags = statvfs.G.flag in
  (* 0x01 is ST_RDONLY in Linux' GNU libc. *)
  flags <> -1_L && (flags &^ 0x1_L) <> 0_L
in

List.iter (
  fun fs ->
    if not (is_ignored fs) && not (is_read_only_lv fs) then (
      if List.mem fs zeroes then (
        message (f_"Zeroing %s") fs;

        g#zero_device fs
      ) else (
        let mounted =

try g#mount fs "/"; true
          with _ -> false in

        if mounted then (
          if is_readonly_btrfs_snapshot fs "/" then (
            info (f_"Skipping %s, as it is a read-only btrfs snapshot.") fs;
          ) else if is_readonly_device "/" then (
            info (f_"Skipping %s, as it is a read-only device.") fs;
          ) else (
            message (f_"Fill free space in %s with zero") fs;
            g#zero_free_space "/"
          )
        ) else (
          let is_linux_x86_swap =
            (* Look for the signature for Linux swap on i386.
             * Location depends on page size, so it definitely won't
             * work on non-x86 architectures (eg. on PPC, page size is
             * 64K).  Also this avoids hibernated swap space: in those,
             * the signature is moved to a different location.
             *)
            try g#pread_device fs 10 4086L = "SWAPSPACE2"
            with _ -> false in
```

```
    if is_linux_x86_swap then (
          message (f_"Clearing Linux swap on %s") fs;

          (* Don't use mkswap.  Just preserve the header containing
           * the label, UUID and swap format version (libguestfs
           * mkswap may differ from guest's own).
           *)
          let header = g#pread_device fs 4096 0L in
          g#zero_device fs;
          if g#pwrite_device fs header 0L <> 4096 then
            error (f_"pwrite: short write restoring swap partition header")
        )
      )
    );

    g#umount_all ()
  )
) filesystems;

(* Fill unused space in volume groups. *)
let vgs = g#vgs () in
let vgs = Array.to_list vgs in
let vgs = List.sort compare vgs in
List.iter (
  fun vg ->
    if not (List.mem vg ignores) then (
      let lvname = String.random8 () in
      let lvdev = "/dev/" ^ vg ^ "/" ^ lvname in

      let created =
        try g#lvcreate_free lvname vg 100; true

   with _ -> false in

      if created then (
        message (f_"Fill free space in volgroup %s with zero") vg;

        g#zero_device lvdev;
        g#sync ();
        g#lvremove lvdev
      )
    )
) vgs;

(* Don't need libguestfs now. *)
g#shutdown ();
```

```
g#close ();

(* Modify SIGINT handler (set first above) to just exit. *)
let do_sigint _ = exit 1 in
Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);

(* Now run qemu-img convert which copies the overlay to the
 * destination and automatically does sparsification.
 *)
message ("Copy to destination and make sparse");

let cmd =
  sprintf "qemu-img convert -f qcow2 -O %s%s%s %s %s"
    (quote output_format)
    (if compress then " -c" else "")
    (match option with
    | None -> ""
    | Some option -> " -o " ^ quote option)
    (quote overlaydisk) (quote (qemu_input_filename outdisk)) in
if shell_command cmd <> 0 then
  error (f_"external command failed: %s") cmd;

(*
Finished. *)
message (f_"Sparsify operation completed with no errors.");
if not (quiet ()) then
  info (f_"Before deleting the old disk, carefully check that the target disk boots and works correctly.")
(* virt-sparsify
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*)

(** This is the traditional virt-sparsify mode: We copy from a
  source disk to a destination disk. *)
```

```
type tmp_place =
| Directory of string | Block_device of string | Prebuilt_file of string

val run : string -> string
 -> Cmdline.check_t -> bool -> string option -> string option -> string list -> string option -> string option -> string
list -> Tools_utils.key_store -> unit
```

1.2017 spice 0.15.0-2ubuntu4

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a) Accompany
the work with the complete corresponding
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object

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the object code for the work under the terms of Section 6.
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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as
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1.2032 go-openapi-errors 0.21.0

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1.2033 logr 1.4.1

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1.2034 go-openapi-jsonpointer 0.20.2

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1.2035 cel-go 0.17.7

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==========
The common/types/pb/equal.go modification of proto.Equal logic
==========
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```
---
- name: Get License information.
 ansible.builtin.uri:
   url: "https://{{ hostname }}/redfish/v1/LicenseService/Licenses?$expand=*($levels=1)"
   validate_certs: "{{ validate_certs }}"
   ca_path: "{{ ca_path | default(omit) }}"
   method: "{{ uri_method }}"
   user: "{{ username }}"
   password: "{{ password }}"
   headers: "{{ uri_headers }}"
   body_format: "{{ uri_body_format }}"
   status_code: "{{ uri_status_code }}"
   return_content: "{{ uri_return_content }}"
 register: license_result
 delegate_to: "{{ lookup('ansible.builtin.env', 'RUNON', default='localhost') }}"
 no_log: true

- name: Set License facts
 ansible.builtin.set_fact:
   license: "{{ license_result.json.Members | ansible.utils.remove_keys(target=['@odata.context', '@odata.id',
'@odata.type']) }}"
{
   "include_symlinks": false,
   "output": "path-message"
}
```

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```
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- name: Add a vCenter evaluation license
 vcenter_license: &vcenter_lic_data
   hostname: "{{ vcenter_hostname }}"
   username: "{{ vcenter_username }}"
   password: "{{ vcenter_password }}"
   validate_certs: false
   license: 00000-00000-00000-00000-00000
   state: present

- name: Remove an (unused) vCenter evaluation license
 vcenter_license:
   <<: *vcenter_lic_data
   state: absent

- name: Add an invalid vCenter license
 vcenter_license:
   <<: *vcenter_lic_data
   license: 00000-00000-00000-00000-00001
```

```
  state: present
 register: vcenter_license_output
 failed_when: '"is not existing or can not be added" not in vcenter_license_output.msg'
```

cloud/vcenter

zuul/vmware/vcenter_only

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```
---
scenario:
 test_sequence:
  - dependency
  - lint
  - cleanup
  - destroy
  - syntax
  - create
  - converge
  - destroy
```

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written offer, valid for at least three years
and valid for as
long as you offer spare parts or customer support for that product
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more than your reasonable cost of physically performing this
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OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
- name: Get license information.
ansible.builtin.uri:
  url: "https://{{ hostname }}/redfish/v1/LicenseService/Licenses/{{ license_data.Id }}"

```
  validate_certs: "{{ validate_certs }}"
  ca_path: "{{ ca_path | default(omit) }}"
  method: "{{ uri_method }}"
  user: "{{ username }}"
  password: "{{ password }}"
  headers: "{{ uri_headers }}"
  body_format: "{{ uri_body_format }}"
  status_code: "{{ uri_status_code }}"
  return_content: "{{ uri_return_content }}"
 register: license_result
 no_log: true

- name: Set license facts
 ansible.builtin.set_fact:
  api_response: "{{ license_result.json | ansible.utils.remove_keys(
    target=['@odata.context', '@odata.id', '@odata.type']) }}"

- name: Set the keys diff
 ansible.builtin.set_fact:
  diff_keys: "{{ license_data.keys() | list | symmetric_difference((api_response.keys() | list)) }}"

- name: Set a diff of dict
 ansible.builtin.set_fact:
  diff_data: "{{ diff_data | combine({item: license_data[item]}) }}"
  loop: "{{ license_data.keys() }}"
 when:
  - diff_keys | length == 0
  - license_data[item] != api_response[item]
  - item not in exclude_keys

- name: Assert the difference in Keys
 ansible.builtin.assert:
  that:
    - "{{ (diff_keys | length) == 0 }}"
    - "{{ (diff_data | length) == 0 }}"
  fail_msg: "The response from the role does not match | Diff Keys : {{ diff_keys }} Diff Data : {{ diff_data }}"
  success_msg: "The response from the role matches |  Diff Keys : {{ diff_keys }} Diff Data : {{ diff_data }}"
```

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Version 3, 29 June 2007

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only if you received the object code with such an offer, in accord
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Corresponding Source in
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```
---
- name: Converge idrac_gather_facts for License
 hosts: all
 gather_facts: false
 vars:
   hostname: "{{ lookup('env', 'hostname') }}"
   username: "{{ lookup('env', 'username') }}"
   password: "{{ lookup('env', 'password') }}"
   validate_certs: false
   target:
     - License
   uri_method: "GET"
   uri_headers:
     Accept: "application/json"
     Content-Type: "application/json"
     OData-Version: "4.0"
   uri_body_format: "json"
   uri_status_code:
     - 200
     - 400
```

```
    - 401
    - 404
    - -1
  uri_return_content: true
  diff_data: {}
  exclude_keys: []

 tasks:
  - name: Gather Facts for the License component
    ansible.builtin.include_role:
      name: "idrac_gather_facts"

  - name: Assert license dict for length
    ansible.builtin.assert:
      that:
        - "{{ license | length > 0 }}"

  - name: Call assertion
    ansible.builtin.include_tasks: license_assert.yml
    with_items: "{{ license }}"
    loop_control:
      loop_var: license_data
    when: license | length > 0
```

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adq
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amitk79
amree
Andersson007
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aquach
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AshDevilRed
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axisK
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baldpale
banyek
BarbzYHOOL
Berbe
bizmate
bjne
bmalynovytch
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fourjay
fraff
g00fy-
geerlingguy
georgeOsdDev
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jarnold-timeout
JaSafieddine
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Jean-Daniel
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robertdebock
robpblake
rokka-n
Roxyrob
roysmith
rsicart
rthouvenin
ruudk
samccann
samdoran
sayap
scottbrown
seanorama
sedrubal
sergey-trukhin
Shaps
shrikeh
sivel
skalfyfan
skoriy88
sperantus
spoyd
steverweber
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time-palominodb
timorunge
Tomasthanes
tomdymond
Tronde

tuhoanganh
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tyll
UncertaintyP
unnecessary-username
vamshi8
vanne
vdboor
vmahadev
v-zhuravlev
webmat
wedi
whysthatso
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1.2038 x-crypto 0.18.0

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1.2039 x-net 0.20.0

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1.2040 x-sys 0.16.0

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1.2041 logback-core 1.2.13

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Found in path(s):
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/action/IADataForBasicProperty.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/net/ssl/KeyManagerFactoryFactoryBean.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/action/NOPAction.java

* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/pattern/parser/Parser.java
*
 /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/encoder/EchoEncoder.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/action/AppenderAction.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/rolling/FixedWindowRollingPolicy.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/action/ContextPropertyAction.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/util/PropertySetter.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/net/SMTPAppenderBase.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/rolling/helper/IntegerTokenConverter.java
*
 /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/pattern/CompositeConverter.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/util/ConfigurationWatchListUtil.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/util/FileUtil.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/net/server/RemoteReceiverStreamClient.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/conditional/PropertyWrapperForScripts.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/net/ssl/SecureRandomFactoryBean.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/util/StatusListenerConfigHelper.java
*
 /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/spi/NoAutoStart.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/status/StatusListenerAsList.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/spi/DefaultClass.java
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* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/spi/AppenderAttachableImpl.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/OutputStreamAppender.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/conditional/PropertyEvalScriptBuilder.java
*

/opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/event/BodyEvent.java
* /opt/cola/permits/1882328976_1704877593.0272145/0/logback-core-1-2-13-sources-jar/ch/qos/logback/core/encoder/Encoder.java
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1.2042 protobuf-c 1.5.0

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* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/tests/LTnlink.c
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/tests/LTdnlc.c
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/tests/LTlock.c
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/tests/LTszoff.c
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/tests/LTbigf.c
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/tests/LTsock.c
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/tests/LTunix.c
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/tests/LTnfs.c
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* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/dialects/darwin/libproc/dlsof.h
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*/
/*
     * If this is a regular file with a non-numeric FD, it may be the
     * executable.
     */
```

Found in path(s):
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/tests/LTbasic.c
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* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/dialects/freebsd/dzfs.h
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/util.c
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/dialects/freebsd/dnode2.c
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You should have received a copy of the GNU General Public License
along with this program (in the main directory of the Linux-NTFS

Found in path(s):
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/scripts/sort_res.perl5
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* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/dialects/osr/dproc.c
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/dialects/freebsd/dnode1.c
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/dialects/n+obsd/dnode1.c
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/dialects/osr/dfile.c
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/dialects/darwin/kmem/dnode1.c
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/dialects/osr/dstore.c
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/dialects/osr/dlsof.h
*
/opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/dialects/hpux/kmem/dnode1.c
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/dialects/osr/machine.h
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* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/dialects/osr/dsock.c
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/dialects/osr/dnode.c
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* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/tests/LsofTest.h
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* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/dialects/darwin/kmem/dfile.c
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*
* @(#)cdefs.h 8.2 (Berkeley) 10/4/93
*/

Found in path(s):
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/dialects/osr/include/sys/cdefs.h
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* @(#)netdb.h 5.15 (Berkeley) 4/3/91
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Notes for the distribution of lsof version 3

```
*********************************************************************
| The latest release of lsof is always available via anonymous ftp |
| from vic.cc.purdue.edu.  Look in pub/tools/unix/lsof.            |
*********************************************************************
```

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3.82, December 11, 1996
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3.84, January 13, 1997
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3.86, January 30, 1997
3.87, February 11, 1997
3.88, February 17, 1997

Dialects Supported
==========

Lsof (for LiSt Open Files) lists files opened
by processes on
selected Unix systems. It's a major revision of lsof version 2,
and has been tested on:

AIX 3.2.5, 4.1[.[1234]], the IBM RISC/System 6000
and 4.2
BSDI BSD/OS 2.0, 2.0.1, Intel-based systems
and 2.1
DC/OSx 1.1 Pyramid systems
EP/IX 2.1.1 the CDC 4680
FreeBSD 1.1.5.1, 2.0, Intel-based systems
2.0.5, 2.1, 2.1.5,
2.2, and 3.0
HP-UX 8.x, 9.x, 10.01, HP systems (some combinations)
10.10, and 10.20
IRIX 5.2, 5.3, 6.0, 6.0.1, SGI systems
and 6.[1234]
Linux through 2.0 Intel-based systems
NetBSD 1.0, 1.1, and 1.2 Intel and SPARC-based systems
NEXTSTEP 2.1 and 3.[0123] all NEXTSTEP architectures
OpenBSD 1.2 and 2.0 Intel-based systems
OSF/1 2.0, 3.0, 3.2, and the DEC Alpha
4.0-BETA
Reliant UNIX 5.43 Pyramid systems
RISC/os 4.52 MIPS R2000-based systems
SCO OpenServer 1.1, 3.0, Intel-based systems
and 5.[024]
SCO UnixWare 2.1 and 2.1.1 Intel-based systems
Sequent PTX 2.1.[1569], Sequent systems
4.0.[23],
4.1.[024],
4.2[.1], and 4.3
Solaris 2.[123456], 2.5.1, Sun 4 and i86pc systems
and 2.6-Beta
SunOS 4.1.[1234] Sun 3 and 4
Ultrix 4.2, 4.3, 4.4, DEC RISC and VAX
and 4.5

(The pub/tools/unix/lsof/contrib directory on vic.cc.purdue.edu
contains information on other ports.)

If your favorite Unix dialect is not in the list, or if your version

of it is more recent than the ones listed, please contact me at
<abe@vic.cc.purdue.edu>.

How Lsof Works

Using available kernel data access methods -- getproc(), getuser(), kvm_*(), nlist(), pstat(), read(), readx(), /proc -- lsof reads process table entries, user areas and file pointers to reach the underlying structures that describe files opened by processes.

Lsof interprets most file node structures -- advfsnodes, autonodes, cnodes, cdrnodes, devnodes, fifonodes, gnodes, hsnodes, inodes, mfsnodes, pcnodes, procnodes, rnodes, snodes, specnodes, s5inodes, tmpnodes. It understands NFS connections. It recognizes FIFOs, multiplexed files, Unix and Internet sockets. It knows about streams. It understands /proc file systems for some dialects. On many dialects it recognizes execution text and library references. It knows about AFS on some Unix dialects.

Lsof Output

The lsof output describes:

* the identification number of the process (PID) that has opened the file;

* the process group identification number (PGRP) of the process (optional);

* the process identification number of the parent process (PPID) (optional);

* the command the process is executing;

* the owner of the process;

* for all files in use by the process, including the executing text file and the shared libraries it is using:

  * the file descriptor number of the file, if applicable;

  * the file's access mode;

* the file's lock status;

* the file's device numbers;

* the file's inode number;

* the file's size or
offset;

* the name of the file system containing the file;

* any available components of the file's path name;

* the names of the file's stream components;

* the file's local and remote network addresses;

* other file or dialect-specific values.

Getting Started Quickly

If you want to get started using lsof quickly, or see some examples of how lsof can be used, consult the 00QUICKSTART file of the lsof distribution.

The 00QUICKSTART file won't help you build or install lsof, but it will cut through the density of the lsof man page, giving you more readily an idea of what you can do with lsof.

For information on building and installing lsof, consult the 00README file of the lsof distribution.

Limiting, Filtering, and Selecting Lsof Output

Lsof accepts options to limit, filter, and select its output.
These are the possible criteria:

* Process ID (PID) number -- to list the
open files for a given
process;

* Process Group ID (PGRP) -- to list the open files for all
the processes of a given process group;

* User ID number or login name -- to list the open files for all the processes of a given user;

* Internet address -- to list the open files using a given Internet address (host name), protocol, or port (number or name); or to list all open Internet files;

* command name;

* file descriptor name or number;

* list all open NFS files;

* list all open Unix domain socket files;

* list all uses of a specific file;

* list all open files on a file system.

Selection options are normally ORed -- i.e., an open file meeting any of the criteria is listed. The selection options may be ANDed so that an open file will be listed only if it meets all the criteria.

In the absence of any selection criteria, lsof lists files open to all processes.

Parsing Lsof Output with Another Program

The
lsof -F option directs it to produce "field" output that can easily be parsed by another program. The lsof distribution contains sample awk, perl 4, and perl 5 scripts in its scripts subdirectory that show how to post-process field output.

Repeat Mode

Lsof can be directed to produce output, delay for a specified time, then repeat the output, cycling until stopped by an interrupt or quit signal. This mode is useful for monitoring the status of some file operation -- e.g., an ftp transfer or a tape backup operation.

Repeat mode is more efficient when combined with lsof's selection options, since they limit lsof overhead.

It's possible to use lsof's field output options to supply repeat mode output to another process for its manipulation. The scripts subdirectory of the lsof distribution has sample Perl scripts showing how to consume lsof repeat mode output from a pipe.

Distribution Restrictions

Lsof may be used and distributed freely, subject to these limitations:

1. Neither the author nor Purdue University is responsible for any consequences of the use of this software.

2. The origin of this software must not be misrepresented, either by explicit claim or by omission. Credit to the author and Purdue University must appear in documentation and sources.

3. Altered versions must be plainly marked as such, and must not be misrepresented as being the original software.

4. This notice may not be removed from or altered in the lsof source files.

Cautions

Lsof is a tool that is closely tied to the Unix operating system version. It uses header files that describe kernel structures and reads kernel structures that typically change from OS version to OS version.

DON'T TRY TO USE AN LSOF BINARY, COMPILED FOR ONE UNIX OS VERSION, ON ANOTHER.

On some Unix dialects, notably SunOS and Solaris, lsof versions may be even more restricted by architecture type. An lsof binary, compiled for SunOS 4.1.3 on a sun4c machine, for example, won't work on a sun4m machine. Although I have no evidence that they exist, the potential for similar restrictions exists in Solaris versions of lsof.

AN LSOF BINARY, COMPILED FOR ONE SOLARIS ARCHITECTURE, ISN'T GUARANTEED TO WORK ON A DIFFERENT SOLARIS ARCHITECTURE.

Distribution Contents
==========

The lsof distribution is checked for completeness when it is constructed and by the Inventory script when you run the Configure script. (See The Inventory Script section of the 00README file of this distribution.)

If you're worried you don't have everything, run the Inventory script. Here's aan approximate picture of what you should have:

lsof_<version>:

```
00CREDITS    00PORTING     Customize  lsof_fields.h  proc.c
00DCACHE     00QUICKSTART  Inventory  main.c         proto.h
00DIST       00README      arg.c      misc.c         scripts/
00FAQ        AFSConfig     dialects/  node.c         store.c
00MANIFEST   Configure     lsof.h     print.c        version
```

lsof_<version>/dialects:

```
aix/       epix/      linux/     osf/       riscos/  sun/
bsdi/      freebsd/   netbsd/    ptx/       sco/     ultrix/
common/    hpux/      next/      pyramid/   sgi/     unixware/
```

lsof_<version>/dialects/common:

```
00Manifest  dvch.frag   lkud.frag   prtf.frag   rnam.frag
ckfa.frag   fchi.frag   pcdn.frag   rdev.frag   rnch.frag
cvfs.frag   isfn.frag   prfp.frag   rmnt.frag   rvfs.frag
```

Specific dialects sub-directories may differ slightly, depending on the needs of the dialect, but they should all contain:

lsof_<version>/dialects/next:

```
Makefile  ddev.c   dlsof.h  dnode.c  dproto.h  dstore.c
Mksrc*    dfile.c  dmnt.c   dproc.c  dsock.c   machine.h
```

lsof_<version>/scripts:

```
00MANIFEST          count_pf.perl*      list_fields.awk
00README            count_pf.perl5*     list_fields.perl*
big_brother.perl5   list_NULf.perl5*    watch_a_file.perl*
```

Warranty
========

Lsof
is provided as-is without any warranty of any kind, either expressed or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. The entire risk as to the quality and performance of lsof is with you. Should lsof prove defective, you assume the cost of all necessary servicing, repair, or correction.

Bug Reports
===========

Now that the obligatory disclaimer is out of the way, let me hasten to add that I accept lsof bug reports and try hard to respond to them. I will also consider and discuss requests for new features, ports to new dialects, or ports to new OS versions.

PLEASE DON'T SEND A BUG REPORT ABOUT LSOF TO THE UNIX DIALECT VENDOR.

At worst such a bug report will confuse the vendor; at best, the vendor will forward the bug report to me.

Please send all bug reports, requests, etc. to me via email at <abe@purdue.edu>.

What's new in Version 3
=======================

I had three goals in mind for version 3:

1. Make it faster.

Lsof 3 defers as many lookup operations -- /dev scan, mount table scan, /etc/services scan -- until they're needed.

I used prof on lsof and used its information to reduce lsof's overhead.

2. Make it easier to maintain and port to other systems, and eliminate complicated nestings of #if/#else/#endif pre-processor statements.

3. Add a few features:

o ANDing of options;

o Sorting of output by Process ID;

o Searching for Unix domain sockets by name -- to a limited extent.

o Process group ID support. (This was a late addition.)

As a result of goal 2, the organization of lsof version 3 differs greatly from version 2. The main directory contains totally common functions, a dialect subdirectory contains subdirectories of code specific to each Unix dialect that is supported. There is also a dialects/common subdirectory that contains code fragments that are used by more than one, but not all dialects.

A top-level Configure script constructs
the complete set of sources
for a given dialect and the Makefile at the top-level. Configure is self-documenting. When it is finished, Configure calls a second script, Customize, that assists with the modification of a few important compile-time options.

Version 3 Release Notes
==========

3.0 May 24, 1994
This is the first official release of lsof 3.

3.01 May 27, 1994
Corrected the #ifdef condition for HASPWSTAYOPEN under Sequent Dynix 3.0.12.

Fixed bug that prevented the display of current working and root directory path names under SunOS 4.1.x, even when the user area contained pointers to them.

Changed the strategy for allocating space to the local proc table in EP/IX, NEXTSTEP, Solaris, and SunOS.

Closed the distance between reading the Solaris proc structure and its companion pid structure in an effort to avoid using a stale pid structure

pointer. A stale pid structure pointer sometimes
causes a segmentation violation in
kvm_read().

Added code to the SunOS kread() function to filter
out non-kernel addresses that might lead kvm_read()
to a segmentation violation. The Configure script
was updated to create a header file, kernelbase.h,
with the necessary kernel memory boundary value;
and to remove the header file when the -clean option
is specified. The Configure script now passes the
target name to the Mksrc shell script. It's used
by sun/Mksrc to determine the source for kernelbase.h.

3.02 June 2, 1994
Added #if's to of kernelbase.h for Solaris and
SunOS. This eliminates a redeclaration complaint
from old versions of SunOS.

Added code to process_file() in all dialects to
display "no more information" when f_count in the
file structure is zero.

3.03 July 8, 1994
Added support for displaying process group IDs.
This includes two new options: -j to select PGRP
display; and -g<list> to specify a list of PGRPs
whose files are to be displayed. (-j was chosen
to
match a similar option in some ps(1)'s.)

Philippe-Andre Prindeville <philipp@res.enst.fr>
suggested this addition.

3.04 July 15, 1994
Corrected handling of port name component of -i
option on systems where htons() is required.

Corrected casting of UID arguments -- needed when
UID is a short and the compiler wants the minimum
argument size to be larger.

3.05 July 26, 1994
Added printing of DECnet socket information for
the Ultrix 4.2 and 4.3 dialects. John Beacom
<beacom@wisnud.physics.wisc.edu> kindly provided
the test system. A new Configure abbreviation,
ultrix42dn, must be used to activate the DECnet

support.

3.06 September 2, 1994

The major news in this revision are the V/88 R32V3 and R40V4.2 ports for Motorola M88K systems. Chance Neale <cneale@panix.com> kindly provided test systems and Mike Feldman <feldman@charm.urbana.mcd.mot.com> provided technical assistance.

Version 3.06 contains other, minor modifications:

* The Configure script has been isolated from the environment, thanks to a report of a CC=xlc problem from Johnny Tolliver <jxt@ca04.cad.ornl.gov>. Johnny also suggested a better form for the install commands in the Makefile's install rule. This change affected all the dialect Mksrc scripts.

  A new HP-UX abbreviation (hpuxx25) was added for systems that have the /etc/conf/x25 include files. The old HP-UX abbreviation (hpux) no longer references /etc/conf or defines HPUX_CCITT.

* The command "lsof `tty`" now works most places (maybe not always for SGI IRIX, but I tried) thanks to a bug report from Casper Dik <casper@fwi.uva.nl>.

* A mode has been added to disable forking when debugging. The V/88 R40V4.2 debugger needed that.

* Printing of stream NAMEs was standardized (IRIX was different) and an attempt was made to avoid stream NAMEs like /dev/ttyx4->/dev/ttyx4.

* A new documentation file, 00FAQ, accompanies the distribution. It contains frequently asked questions about lsof, and the best answers I can manage to give.

* I have a new HP-UX test system, courtesy of Dave Curry <davy@ecn.purdue.edu> and George Goble <ghg@ecn.purdue.edu> of Purdue's Engineering Computer Network. I want to thank J. Nelson Howell <nelson@zeus.mgmt.purdue.edu> of Purdue's School of Management for his prior support of lsof development under HP-UX.

3.07 September 8, 1994

This revision contains a small security enhancement. Tim Ramsey <tar@ksu.ksu.edu> pointed out that lsof's setgid or setuid power might allow it's user to read an alternate kernel name list or memory file via the -c and -k options that the real UID might not have authority to read. In revision 3.07 lsof uses access(2) to check the real UID's authority to read files named with -c and -k.

3.08 September 23, 1994

This revision contains support for Novell's UnixWare, versions 1.1, 1.1.1, and 1.1.2. Peter Lord <plord@novell.co.uk> made this possible by providing a copy of UnixWare and supplying technical advice. Binaries and sources for this version will be available from Novell sources. See the Novell UnixWare section of the distribution's 00README file for details.

This version adds /proc file system support to the dialects derived from SYSV R4 (except EP/IX 2.1.1): FreeBSD, IRIX 5.2, Solaris, UnixWare, and V/88 R40V4.2.

This version compiles under IRIX 4.0.5 again, correcting a problem introduced at version 3.06 in the "lsof `tty`" fix.

HP-UX now skips file systems whose mount type is "ignore". The presence of the -c option is now controlled by the HASCOPT definition in machine.h. The HASSWAPPORT option is now documented and implemented correctly. Hans Petter Christiansen <hpchr@dxcern.cern.ch> suggested these changes.

3.09 October 18, 1994

This revision recognizes the DEC Alpha OSF/1 V3.0, IBM AIX 4.1, and Solaris 2.4 dialects. It has support for the SunOS 4.1.3 PC file system and two bug fixes: an IRIX, V/88, and Solaris file argument processing bug; and a V/88 include error.

Alex Kreis <akreis@us.oracle.com> made the initial request for DEC OSF/1 V3.0 support and provided

help with testing. Ron Young <ron@screamer.nevada.edu> graciously provided a test host. James Woodward <woodward@zk3.dec.com> provided invaluable clues to V3.0 kernel organization. Others who read the alpha-osf-managers mailing list made generous offers of test facilities, and I thank them, too. The decosf3 abbreviation was added to the Configure script, and the script was modified to request the name of the system configuration subdirectory of /sys where the configuration-specific header files reside for the decosf1, decosf2, and decosf3 configuration abbreviations.

Mark Peek <mark_peek@taligent.com> provided and tested the AIX 4.1 changes.

Casper Dik <casper@fwi.uva.nl> provided and tested the Solaris 2.4 changes.

Friedel Loinger <friedel@wise.tau.ac.il> suggested the addition of support for the SunOS 4.1.3 PC file system ("pcfs").

Andreas Stolcke <stolcke@ICSI.Berkeley.EDU> supplied a fix to a file argument processing bug that causes lsof to crash when supplied the path of an NFS mounted file. The bug affects lsof versions for Motorola V/88 R40V4.2, SGI IRIX 5.2, and Solaris 2.[123].

Corrected an error in the path to include prdata.h in dlsof.h for Motorola V/88 R40V4.2.

3.10 October 21, 1994

This revision adds support for the cache and PC file systems to Solaris. It fixes these bugs: a problem with the display of Motorola V/88 R40V4.2 device numbers; and a failure of Readlink() to resolve symbolic links completely in all cases.

Some major internal restructuring was necessary to be able to display negative inode numbers for SunOS PC file system nodes, while displaying them as unsigned numbers for Solaris, hence all dialect versions were affected.

3.11 October 28, 1994

This revision adds support for Linux version 1.0.9. Tim Korb <jtk@arthur.cs.purdue.edu> kindly provided a development system in the Computer Science Department at Purdue. It is likely that the Linux revision will have to be adjusted for each installation, and it is probable that this revision will not run under later versions of Linux. See the 00FAQ and 00REAME files for more information on Linux tuning.

3.12 October 29, 1994

This revision supports Linux version 1.1.47 -- the Yggdrasil Plug-and-Play Linux Fall '94 release. Both Linux versions now obtain kernel symbol addresses from the /zSystem.map file.

November 4, 1994

Hendrik G. Seliger <hank@Blimp.automat.uni-essen.de> reports that lsof compiles and seems to work under Linux 1.1.61. He used the linux1147 Configure abbreviation. Marty Leisner <leisner@sdsp.mc.xerox.com> reports that the linux1147 Configure abbreviation produces
a working lsof for Linux 1.1.64, too.

3.13 November 11, 1994

This revision contains Pyramid DC/OSx support, provided by Anthony Shortland <Anthony.Shortland@FMR.com>.

Marty Leisner <leisner@sdsp.mc.xerox.com> reported a segmentation violation failure in Linux lsof. In response I changed its task structure access to use /dev/kmem instead of mmap'ing kernel memory. This avoids a possible segmentation violation when bad pointers are obtained from kernel memory. I also enabled the setting of Linux INET and Unix select flags so that the -n and -U options work -- I forgot to do that when I did the Linux port.

Marty Leisner reports that the lunix1147 Configure abbreviation produces a working lsof for Linux 1.1.64, too.

Francois Pindard <pinard@iro.umontreal.ca> provided a correction to the Linux install rule.

3.14 November 16, 1994

This revision adjusts the Configure script stanzas

for DEC OSF/1, Motorola V/88, Pyramid DC/OSx, and
Ultrix.
It also contains additional support for
DC/OSx and Ultrix.

Bruce Beare <bjb@pyramid.com> and Robert Vernon
<bob@pyramid.com.au> helped me understand Pyramid
nomenclature. Robert Vernon provided DC/OSx support
for the RxFS file system and added machine series
auto-detection to the Configure script. Alex Podlecki
<a.podlecki@att.com> helped test the updated DC/OSx
distribution.

Chris Timmons <skynyrd@tahoma.cwu.edu> provided
information on RISC and VAX Ultrix 4.4 that led to
correct prefixing of nlist() names. I updated the
Configure script to detect Ultrix version, machine
hardware type, and the presence of DECnet support.

I also updated the OSF/1 and V/88 Configure scripts
to determine configuration parameters automatically.

3.15 November 25, 1994
Corrected DEC OSF/1 V2.0 support of the ADVFS file
system.

Bernt Christandl <beb@mpe-garching.mpg.de> and Alex
Kreis <akreis@us.oracle.com> helped test. No OSF/1
V1.x system with ADVFS
was available for testing.

3.16 December 2, 1994
Fixed some device number handling bugs in DEC OSF/1
V2.0 and V3.0 support.

3.17 January 25, 1994
lsof now supports SGI IRIX 5.3, thanks to changes
supplied by Dave Olson <olson@anchor.engr.sgi.com>;
and SCO OpenDesktop or OpenServer releases 1.1 and
3.0, thanks to support from Dion Johnson <dionj@sco.com>,
Bela Lubkin <belal@sco.com>, and Nathan Peterson
<nathanp@sco.com>.

Dave Olson pointed out an IRIX stream handling bug
in sgi/dnode.c. When I investigated it, I found
that it had implications wider than SGI IRIX. The
eventual fix provided the display of inode numbers
for character devices when the inode number must

be obtained from /dev. IRIX, Solaris, and SunOS
benefit from the fix.

I added version detection to the Configure script,
so there is now just one Configure abbreviation
for IRIX versions 4.05, 5.2, and 5.3 -- ``irix''.
(The Configure abbreviation for the SCO dialect
``sco''.)

Ian
Darrow <ian@sq.com> pointed out that lsof
wouldn't Configure or work properly under Solaris
on an i86pc. Sorting out the difficulties made
clear that the HASSWAPPORT definition should be
removed from every machine.h file and that ntohs()
should be used in every dsock.c on every port
supplied to printinaddr().

Andreas Stolcke <stolcke@ICSI.Berkeley.EDU> pointed
out a method that sometimes allows lsof to report
on files open to a crashed or unavailable remote
NFS server. This led to the addition of code,
where possible, to estimate the device number of
mount points that cannot be stat()'d. The alternate
device number can come from /etc/mtab or /etc/mnttab,
or from the dialect's version of them. On systems
that use /etc/mtab or /etc/mnttab, it is sometimes
possible to add the device number manually to the
mount options field in the form ``dev=xxxx''. Some
internal changes in the way lsof handles device
numbers were necessary to prevent ones
whose dev_t
typedef is a signed short from causing sign extension
when promoted to integers as function arguments.

David Addison <addy@meiko.co.uk> and Robert Ehrlich
<Robert.Ehrlich@inria.fr> pointed out that lsof
errs when reporting device numbers and other node
information for some special Sun files. I rewrote
most of sun/dnode.c to correct the problem; Robert
rewrote it again; and I rewrote it once more.
David and Robert helped me test it under Solaris
2.[34] and SunOs 4.1.[23].

While using code from the Motorola V/88 port for
the SCO port, I found and fixed some NFS bugs in
the V/88 port.

3.18 January 31, 1995

I added the -b and -w options. The -b option causes lsof to avoid the functions lstat(2), readlink(2), and stat(2) that might block in the kernel -- e.g., when they reference an inaccessible NFS file system. Instead it uses alternate device numbers obtained from the mount table, where possible.

The -w option causes lsof to suppress warning messages -- e.g., when the -b option has been specified. The suppression of warning messages was formerly bundled into the -t option. The -t option now selects -w.

I figured out how to make alternate AIX 3.2.5 device numbers from the kernel mount structure. The new -b option therefore works under AIX 3.2.5.

With the help of Chance Neale <cneale@panix.com> I fixed bugs in the Motorola V/88 R32V3 NFS support.

I added a solariscc Configure abbreviation for those who want to use Sun's C compiler.

3.19 February 10, 1995

Robert Ehrlich <Robert.Ehrlich@inria.fr> pointed out that lsof might be able to gather more complete path name information from the kernel's name cache. Name cache access may be inhibited with the new -C option. Revision 3.19 implements name cache access for:

DEC OSF/1 [23].0
Dynix (Purdue 3.0.12)
EP/IX 2.1.1
FreeBSD 1.1.5.1
HP-UX 9.01
Motorola V/88 R40V4.2
NEXTSTEP 3.1

SGI IRIX 5.3
Solaris 2.[34]
SunOS 4.1.x
Ultrix 2.2 and 4.2

Revision 3.19 does NOT implement name cache access for:

===

AIX The knlist() function won't
return cache addresses --
some IBM wisdom to "protect"
their customers.

Linux My only access is to 1.0.9,
and it doesn't seem to have
a kernel name cache.

Motorola V/88 It doesn't have a unified
R32V3 name cache.

Novell UnixWare I don't have a test system.

Pyramid DC/OSx I don't have a test system.

SCO OpenDesktop It doesn't have a unified
OpenServer name cache.

SGI IRIX 4.0.5H I saw no unified name cache
in the header files before
my 4.05H system was converted
to 5.2.

SGI IRIX 5.2 I don't have a test system.

Another Robert Ehrlich suggestion led to the
establishment of a device cache file feature. The
new -D option gives control of it. This feature
speeds lsof dramatically
on some dialects after
lsof has been called once and the cache has been
built. (Calling stat(2) on several hundred or
thousand /dev nodes can take a long time.) The
feature can be disabled or modified in the machine.h
header file and the dialects/*/ddev.c source file
when lsof is built.

3.20 February 23, 1995
Upgraded Linux socket handling for versions 1.1.75
or greater with help from Marty Leisner
<leisner@sdsp.mc.xerox.com> and Linus Torvalds
<Linus.Torvalds@cs.Helsinki.FI>. There is now a
single Configure script abbreviation for linux.

Updated for Motorola V/88 R40V4.3 with help from
Mike Feldman feldman@charm.urbana.mcd.mot.com>
and Chance Neale <cneale@panix.com>.

Updated for SGI IRIX 6.0 with help from Przemek
Klosowski <przemek@rrdjazz.nist.gov and Dave Olson
<olson@anchor.engr.sgi.com>.

Corrected access of device cache file that needs
to be updated so that someone other than the file
owner can rewrite it. Deleted the chmod() failure
warning.

Updated
Configure and the Sun Makefile to specify
absolute paths to the Sun install program.

3.21 March 3, 1995
Removed BSDI BSD/386 support, because I no longer
have a test system, and I needed to have separate
sources for two of the three dialects (FreeBSD,
and NetBSD) once served by the BSDI BSD/386 sources.
FreeBSD sources are now in the freebsd subdirectory;
NetBSD, in netbsd.

With the help of Greg Earle <earle@isolar.Tujunga.CA.US>
and Paul Kranenburg <pk@cs.few.eur.nl> installed
new NetBSD support for versions 1.0 and 1.0A. The
NetBSD 0.9 support was removed. The 1.0A support has
been tested on Intel and SPARC-based systems.

3.22 March 9, 1995
Fixed a bug in name cache handling that occasionally
caused lsof to cause a segmentation violation on
FreeBSD. Although the bug didn't do that anywhere
else, recreated the binaries of all dialect versions
that use the affected code from rnam.frag and rnch.frag.

3.23 March 24,
1995
Removed forgotten HASSWAPPORT reference from HP-UX
machine.h and inserted ntohs() calls in the printinaddr()
calls of dsock.c for HP-UX and NEXTSTEP.

Added support for NEXTSTEP 3.3, courtesy of Allan
Nathanson <ajn@NeXT.com>

3.24 March 31, 1995
Changed Configure script to handle DEC OSF/1 V3.2.
Removed leading zero from DEC OSF/1 and ADVFS
version values. Added dialects/osf/dec_a/3.2 header

file directory, courtesy of Dave Morrison
<dmorriso@us.oracle.com>, who also tested the 3.24
DEC/OSF1 V3.2 lsof.

3.25 April 5, 1995
Ported to RISC/os on a R2030 (R2000-based) system,
provided by Zdenko Tomasic <zdenko@harvey.cam.rice.edu>.

Tightened security on the device cache file; lsof
always tries to change its ownerships to the effective
IDs after creating it. This was suggested by Stefan
Kelm <kelm@cert.dfn.de>.

Ported to FreeBSD 2.0, starting with work done by
Kurt Jaeger <pi@complx.stgt.sub.org> on lsof revision
3.16. Ade Barkah <mbarkah@hemi.com>
and William
McVey <wam@cs.purdue.edu> provided test systems.

3.26 April 20, 1995
Ported to SCO OpenDesktop or OpenServer 5.0 (aka
Everest and 3.2v5.0.0). Hugh Dickins <hughd@sco.COM>,
Bela Lubkin <belal@sco.COM>, Craig B. Olofson
<craigo@sco.COM>, and Nathan Peterson <nathan@sco.com>,
provided me an early-release version of 3.2v5.0.0
and gave technical advice.

Added length checking of the Namech buffer to the
printinaddr() function.

3.27 May 2, 1995
Corrected typo in AIX install rule, courtesy of a
report from John Colgrave <colgrave@hursley.ibm.com>.

At the suggestion of Greg Earle
<earle@isolar.Tujunga.CA.US> added a function to
print the name of the unknown protocol (the AF_*
symbol), when there is no specific processing for
it in dsock.c. This change affected most dialects:
exceptions are DC/OSx, Linux, Motorola V/88, and
UnixWare.

3.28 May 26, 1995
Added support for Sequent PTX 2 and PTX 4. The
PTX 2.1.6 and PTX 4.0.2 test
systems and technical
advice were provided by Gerrit Huizenga
<gerrit@sequent.com>, Peter Jordan <petej@sequent.com>,

Kevin Smallwood <kcs@sequent.com>, and Mike Spitzer
<mks@sequent.com>. (Thomas A. Endo) <tendo@netcom.com>
and (David Putz). <PutzDW@PO1.LMB.unisys.com> tested
under PTX 2.1.5. Bob Foertsch <foertsch@uiuc.edu>
tested under PTX 4. Kevin Smallwood tested under
2.1.1. Others who helped include Shane Kenney
<shane@sequent.com>, Stephan Rossi <rossi@mtu.edu>,
Douglas R. Smith <drsmith@us.oracle.com>, and Joel
White <jdwhite@netcom.com>.

Changed the local dev structure's name to l_dev to
avoid conflicts with the PTX dev structure. Added
a common/rdev1.frag -- a variant of rdev.frag. It's
used by EP/IX, PTX, RISC/os, and V/88.

Changed printname() to check Namech first and print
it if it contains something. This eliminates some
hacks in the handling of names for streams, but
generates some duplicate device name look-up code
in
the dnode.c files of some dialects.

3.29 June 2, 1995
Added clone device support to Motorola V/88 R40V4.3.

Added a generic ``-X'' option for dialect-specific
use. Used it in AIX to allow use of readx(). Lsof
no longer uses readx() by default, because its use
can cause an AIX 3.2.x and 4.1.x kernel error to
appear. Kevin Ruderman <rudi@acs.bu.edu> reported
this bug to me and the possibility that lsof might
trigger it.

The error, known as the Stale Segment ID bug, hangs
the kernel in its dir_search() function, thus
hanging the application process that called it so
tightly that the application process can neither
be killed nor stopped. The bug does not directly
affect lsof, but may cause the hang when the kernel
is searching directories for other processes.
00FAQ and 00README describe the Stale Segment ID
bug in more detail. Consult dialects/aix/machine.h
for options on enabling or disabling readx() by
default, or permanently enabling or disabling
it
with the HASXOPT and HASXOPT_VALUE definitions.

When not using readx(), AIX lsof may not report

fully on all text and loader references. Changes to the kernel getuser() function in AIX 4.1.1 appear to have eliminated the text file and loader file reference information that once led lsof to use readx(); of course, without that information, lsof can no longer report on the executing text file or shared libraries in 4.1.1.

Changed the Configure script to use a single abbreviation, aix, for AIX. Configure now uses /usr/bin/oslevel to determine the AIX version; in the absence of /usr/bin/oslevel, Configure issues a warning and assumes the version is 3.2.0. Source code changes were made to dialects/aix/*.[ch] to accommodate the new form of the _AIXV value.

3.30 June 8, 1995

Added -c to the installation of the man page in the Ultrix Makefile's install rule. Thanks go to Jules van Weerden <Jules.vanWeerden@let.ruu.nl> for noticing this omission.

Made FreeBSD 2.0 changes: 1) added automatic sensing of the FreeBSD 2.0 boot file path, using the getbootfile(3) function (suggested by Ade Barkah); 2) changed kvm_getprocs(3) function call to use KERN_PROC_ALL symbol from <sys/sysctl.h>, thus eliminating incorrect use of the <sys/kinfo.h> and <sys/kinfo_proc.h> header files; and 3) removed <sys/kinfo.h> and <sys/kinfo_proc.h> header files from the dialects/freebsd/include/2/sys subdirectory of distribution.

Tested under AIX 4.1.2.

3.31 June 16, 1995

Added the NOUSAGEONERR definition to allow lsof to be compiled with the displaying of usage information after option error messages disabled. Lsof is distributed without the NOUSAGEONERR definition -- i.e., usage output is displayed after option error messages.

Worked on documentation in the 00* files and the man page, adding tables of contents, making usage more consistent, trying to insure proper dialect titles, and inserting some

notes about distribution
restrictions (few) and warranty (none).

Fixed Motorola V88 R32V3 bug in handling Internet files. This bug was introduced some time ago, but I have only recently been able to test under R32V3 again.

3.32 June 23, 1995

Added the ability to the Linux nlist() function to automatically detect that the kernel binary is COFF or ELF form. Also corrected the UID_ARG cast from int to u_int. These changes were suggested by Michael Shields <shields@tembel.org>. Joseph J. Nuspl Jr. <nuspl@nvwls.cc.purdue.edu> provided a test system.

Updated lsof for HP-UX 10. Richard Allen <ra@rhi.hi.is> provided a test system. The hpux stanza in the HP-UX configure script was updated to sense the HP-UX version automatically, and to sense the availability of CCITT header files in /etc/conf/x25.

3.33 June 28, 1994

Added options to select "field" output that can be parsed by a subsequent program. (The -f, -F, and -0 options form the selection set.) Provided sample awk and Perl scripts for parsing and displaying field output. This feature was suggested by Dan Bernstein <djb@silverton.berkeley.edu>.

Tested under PTX 4.0.3.

3.34 June 30, 1995

Changed display of file offset to decimal in the form "0t12345678" if it is less than 100,000,000. The offset is displayed in hexadecimal in the form "0x12abcdef" if it is larger than 99,999,999.

Changed inode field output from signed to unsigned decimal. Updated the list_fields.{awk,perl} and list_NULf.perl5 scripts.

Documented the truncated inode output form (leading `*' and 5 digits) for inodes that are too large for the output field; thanks go to Leonard Sitongia <sitongia@zia.hao.ucar.edu> for pointing out that

this wasn't documented.

3.35 July 9, 1995

Added loopback file system support to Solaris with advice from Casper Dik <casper@Holland.Sun.COM>.

Removed the NOUSAGEONERR compile option in favor of producing a shortened usage message when option errors are detected.

Marty Leisner <leisner@sdsp.mc.xerox.com> provided code to validate the Linux system map file (/System.map or /zSystem.map). If lsof detects that the system map file doesn't match the booted kernel, it complains and quits.

Updated host name cache to include dot forms -- e.g., when the host name can't be obtained via gethostbydddr(). This prevents subsequent lookup delays for the same address.

3.36 July 20, 1995

Updated kernel name cache handling to assume a default size for pointer-linked caches (DEC OSF/1, FreeBSD, NetBSD, and SGI IRIX 5.3) when the kernel's cache size variable has a value of zero. A warning is issued, but lsof proceeds to read and use the name cache.

Folded rdev1.frag into rdev.frag by supporting a HASDNAMLEN #define for those dialects whose DIRTYPE structure has a d_namlen definition.

Updated Linux distribution to avoid using d_namlen from struct dirent if the Linux version is 1.2.10 or greater. This avoidance might work on earlier version of Linux, too, but I have no way of telling.

Added support for FreeBSD 2.0.5. Ade Barkah <mbarkah@hemi.com> provided a test system.

Added WARNDEVACCESS definition to machine.h control the default issuance of device directory and subdirectory access errors.

Changed options:

-m (mount warning) option deleted

-c (core file) option changed to -m
-c option redesignated as command selector
-d (device warning) option deleted
-d option redesignated as file descriptor selector
-O (order) option changed to less-overhead option
-r option added to enable repeat mode

Added a repeat mode in which lsof will display output, sleep for the number of seconds defined by the repeat-mode option, -r <seconds>, and then display output again, doing this repetitively until it receives an interrupt or quit signal. This option is much more efficient for monitoring a file than calling lsof repeatedly from a shell script, since it entails only one set of lsof startup operations.

The CANDOCHILD compile-time option has been removed. The -O run-time option will do the same thing.

3.37 July 27, 1995

Fixed incorrect setting of low-overhead flag from -O option.

Marty Leisner reports that d_namlen is not needed under Linux 1.2.8. Changed the #if test that sets HASDNAMLEN accordingly.

Made more changes to option processing: combined -f, -F, and -0 into -F (-0 becomes a field identifier value for -F); now allow -F, -g, -r, and -S to have an optional value; made -F? (help) and -F0 (all fields plus NUL terminator) special forms of -F; and added support for --. These option processing changes are handled with a local getopt() function (named GetOpt() to avoid confusion).

Made yet another attempt to create "standard" install and deinstall SunOS/Solaris Makefile rules.

Corrected improper use of examine_lproc() when in repeat mode.

3.38 August 3, 1995

Modified Linux and PTX to show TCP's "send next" sequence number as the offset for TCP socket files.

Added some version tests for Linux 1.3.0, provided by
Roman Gollent <roman@portal.stwing.upenn.edu>.

Added some more PTX tests around code that shouldn't
be active when the NFS layered product is unavailable.
Mark Vasoll <vasoll@a.cs.okstate.edu> provided them.

3.39 August 10, 1995
Added generic support for dialect-specific elements
in the lfile structure. The HASLFILEADD and
SETLFILEADD macroes are used in lsof.h to define
the elements and in proc.c to preset them. Field
identifiers `1' through `9' are allocated to
dialect-specific files. The HASFIELDAP<x> strings
define the -F? help text for the FieldSel[] table
of store.c, and LISTLFILEAP<x> are macroes, used
in the print_proc() function of proc.c, to list
fields. (<x> is the field identifier.) Other
private element and field processing should be done
in dialect-specific
modules.

Used {HAS,SET}LFILEADD, HASFIELDAP[12], and
LISTLFILEAP[12] to define and list link count and
inode address lfile elements under PTX. Used the
-X option to control when the values are displayed.

3.40 August 25, 1995
Added support for Solaris 2.5-BETA, including
rudimentary support for door files and extensive
support for fattach'ed files with the help of Henry
Katz <hkatz@panix.com>, Joseph Kowalski
<jek3@jurassic.Eng.Sun.COM>, and Mike Tracy
<mtrac@jurassic-45.Eng.Sun.COM>.

Changed most dialects to use slightly safer fchown()
on the device cache file. Changed dvch.frag to
avoid creating a device cache file that is owned
by root. Cleared caches when reading of device
cache file fails and removed extra NL from device
cache error messages.

After receiving yet another complaint about Makefile
install rules, I decided to remove all install and
deinstall rules from the distribution Makefiles.
The Makefiles now contain a set

of comments (echo
commands) that describe what the install rule might
be. The lsof user is now free to construct install
and deinstall rules that meet local conventions
and preferences.

3.41 September 5, 1995
Changed Linux kernel symbol handling to avoid the
stripping of leading `_' characters that was
installed in revision 3.32. (Recent Linux kernels
have some symbols that are the same except for the
leading `_'.)

The Linux kernel loader format is now determined
by testing for "_system_utsname" (COFF) and
"system_utsname" (ELF) in the symbols returned by
the get_kernel_syms() syscall. If neither or both
symbols are present, a warning is issued and COFF
format is assumed. If the loader format is COFF,
then kernel symbols important to lsof are assumed
to have a leading `_'.

Because recent Linux releases add a parameter
hashing suffix to kernel symbols, lsof removes it
before comparing kernel symbol names and addresses
to those in /[z]System.map.

Marty
Leisner, Keith Parks <emkxp01@mtcc.demon.co.uk>,
and Michael Shields helped me with the Linux changes.

After much discussion of the security of the device
cache file on the bugtraq mailing list, I adopted
a suggestion from Dave Sill <de5@sws5.CTD.ORNL.GOV>.
His suggestion removes the world-writable device
cache file from /tmp and creates instead a mode
0600 device cache file in the home directory of
the real user ID that is executing lsof. Lsof
issues a warning message when it does this. (The
warning can be suppressed with -w.) The HASDCACHE
definition becomes a relative path. When lsof is
run from root, it will create a device cache file
in root's home directory, e.g., / or /root, but
the file will be readable and writable only by
root. This should make the device cache file much
more secure.

Added support for SGI IRIX 6.1. Dave Olson provided

technical support and Przemek Klosowski supplied
a test system. Since Przemek's
system formerly
supported my testing of lsof for IRIX 6.0, its
update to 6.1 means I have not tested lsof under
IRIX 6.0 since revision 3.39.

Changed name list structure element initialization
for V/88 to make gcc happy. Albert Chin-A-Young
<china@cig.mot.com> suggested this.

3.42 September 7, 1995
Changed device cache file naming process to add a
suffix formed of an underscore, followed by the
first component of the host name returned by
gethostname(2). This allows lsof to create separate
device cache files for each host from which it is
run for the same UID when the UID's home directory
is shared by the hosts via NFS.

3.43 September 12, 1995
Enabled SCO searching for stream files and Release
5.0 Unix domain socket files by name.

Defined HASDOPTPATH for dialects that can supply
a path with -Db, -Dr, and -Du. Defined it for all
but DC/OSx, UnixWare, and V/88. Used it in the
ctrl_dcache() function of arg.c to enable and
disable -Db,
-Dr, and -Du.

Used is_readable() in dvch.frag when opening the
device cache file for reading.

3.44 September 19, 1995
Added test for setuid-root state so that some
security-sensitive code now disabled by #define's
can by dynamically disabled.

Enhanced, extended, improved, secured, and documented
formation and use of the device cache file path.
More options, more carefully controlled are now
available. A separate documentation file, 00DCACHE,
accompanies the distribution to explain the device
cache file path handling.

Where possible, lsof now drops setgid permission
as soon as possible. Two exceptions are the Solaris

and SunOS versions of lsof which need to close and
re-open kvm access. Setuid-root lsof implementations
must retain that permission to access files in /proc.

Improved the README.lsof_<revision> file that
appears in the lsof wrapper tar file with help from
Jon A. Tankersley <tank@amoco.com>.

Added Veritas file system support
to the HP-UX
dialect port.

Albert Chin-A-Young tested lsof under Motorola V/88
R40V4.1 and provided #if/#else/#endif changes.

3.45 September 20, 1995
Enabled setgid permission surrender for Solaris
and SunOS dialects.

3.46 October 5, 1995
Added more conversions to HASPERSDC, based on
suggestions from John Gardiner Myers <jgm+@CMU.EDU>.
They make it possible to locate the personal device
cache file in /tmp, for example. A new -D function,
`?', reports device cache file name formation
information.

Gained access to AIX 4.1.3, compiled lsof there, and
found that it seems to work.

Tested lsof under FreeBSD 2.1.0-950726-SNAP. John
Clear <jac@dragonfly.vet.purdue.edu> kindly provided
a test system.

Added a Customize script that helps with the job
of modifying some important (e.g., security-related)
compile-time options. Configure calls Customize,
but can be told not to with the -n|-nocust options.

Fixed over-sensitivity to unexpected kernel
file
structure pointer values in HP-UX version that led
to premature exit. Lionel Cons <cons@dxcern.cern.ch>
pointed out the problem.

With the help of Leif Hedstrom <leif@infoseek.com>
identified a pair of conflicting Solaris 2.4 patches

that prevent lsof from working. A work-around is described in section 00FAQ.

3.47 October 16, 1995

Enabled suppression of an HP-UX pstat() warning message. Added big_brother.perl5 to field output scripts/ subdirectory. Both changes are courtesy of Lionel Cons <Lionel.Cons@cern.ch>.

Added a test for automount detritus in the SCO mount table.

Added kernel name cache support to SCO dialect. Modified most name cache support to report full path names without the intervening `` -- '' when possible.

Added an Inventory script to check the contents of the distribution, using a new file, 00MANIFEST. The Configure script normally calls Inventory. Changed the -n option to Configure to avoid calling the Customize
and Inventory scripts and dropped the -nocust option. The presence of .neverCust suppresses the calling of Customize; .neverInv, Inventory. The Inventory script creates .ck00MAN when it completes, so that subsequent calls to Inventory won't check the inventory again -- although the caller is given the opportunity to have the inventory rechecked.

Added PTX 4.1.0 support, courtesy of a test system supplied by Kevin Smallwood <kcs@sequent.com>.

Picked lint for gcc in the V/88 dproc.c from hints provided by Albert Chin-A-Young <chinay@cig.mot.com>.

3.48 October 20, 1995

Improved root directory detection during name cache lookup.

Remove the Novell UnixWare and Pyramid DC/OSx ports from the distribution, because I have not been able to test them for 40 or more revisions. Their pieces may now be found on vic.cc.purdue.edu in pub/tools/unix/lsof/OLD/{binaries,dialects}.

Corrected an error in Customize that caused it to

incorrectly redefine
HASSYSDC to HASSYSDCPATH. This
was reported by Michael Beirne <beirne@dcdsv0.fnal.gov>.

Made sure that lsof will compile when HASDCACHE is
undefined. A problem with a reference to the DChelp
symbol was reported by Vasco Pedro <vp@fct.unl.pt>
and resolved by always defining DChelp.

Corrected handling of -c and -m options.

Corrected the reading of the SCO /etc/mnttab. Bela
Lubkin <belal@sco.com> helped me understand its
special multi-line format. The "nothing/nowhere"
lines are continuations of the file system directory
and device names when either are > 31 characters.

Corrected SCO version list in Configure help output.

Update special SCO name cache code to make it more
robust.

Add support for IRIX 6.0.1 with the help of Eberhard
Mater <system@grzap1.rz.go.dlr.de>.

3.49 October 25, 1995
Removed need for dialects/sgi/irix601hdr subdirectory,
replacing it with one created by dialects/sgi/Mksrc
and composed of symbolic links to dialects/sgi/irix6hdr.
Eberhard
Mater did the testing.

Added file system inode number to the local file
structures of the DEC OSF/1, DYNIX, EP/IX, HP-UX,
NeXT, PTX, RISCos, SGI, Sun, and V/88 dialects.
Added code to name cache, node, and VFS functions
to set the file system inode number and use it for
faster recognition of files on the file system
mount point.

Added kernel name cache support to Linux. This
has been tested only under release 1.2.13.

3.50 October 31, 1995
Updated 00FAQ: reorganized and renumbered sections;
added some DEC OSF/1 sections; section about the
Solaris and SunOS Sun KERNELBASE.

Added an alternative readdir() function, called
ReadDir(), to dialects/osf/ddev.c This function
was supplied by Duncan McEwan <duncan@comp.vuw.ac.nz>,
who discovered that the getdirentries() function
in DEC OSF/1 versions 3.[02] returns an incorrect
length for the /dev/fd directory when it is a file
system mount point. Modified the Configure script
to
define USELOCALREADDIR for 3.[02] to enable
using this local function.

Modified the Solaris/SunOS Mksrc to create a dummy
(empty) kernelbase.h for Solaris 2.5 (5.5).

3.51 November 8, 1995
Modified the Configure script to declare the kernel
state definitions appropriate to IRIX 6.1 on IP21
and IP26 platforms. News of the need for this came
from Kate Fissell <Kate.Fissell@IUS4.IUS.CS.CMU.EDU>
and Dave Olson <olson@anchor.engr.sgi.com>.

Modified the SGI IRIX dproc.c to provide more
information when the kernel's idea of the size of
a proc structure doesn't match sizeof(struct proc).
This mismatch can occur if the wrong kernel state
definitions are used to condition the header files
(e.g., <sys/proc.h>) included when compiling dproc.c.

Made the -i option with no arguments equivalent to
the -n option -- i.e., they both select the listing
of all open Internet files.

Supplied a missing "you" in the Customize script
introduction. John Jackson <jrj@cc.purdue.edu>
noticed
the omission.

Modified the Customize script to put long messages
in here documents rather than echo statements, so
that changing and reformatting them is easier.
John Jackson offered this helpful suggestion.

Fixed a port number cast bug in Solaris 2.[45],
courtesy of information and code supplied by Allan
Black <allan@scotnet.co.uk>.

Automated the detection of Solaris 2.4 patches
101945-32 and 102303-02 that cause the installed

kernel's user structure to differ from the one
defined by <sys/user.h> because of a patch to
<sys/auxv.h> that wasn't applied when the kernel
was built. The Configure script invokes an alternate
auxv.h file and warns that it is doing so.

Fixed a problem with Inventory script that shows up
on systems where echo is not an sh built-in. The
bug was reported by Scott Ballew <smb@cc.purdue.edu>.

3.52 November 27, 1995
Added support for Linux versions 1.3.22 and above,
courtesy of changes supplied
by Keith Parks
<emkxp01@mtcc.demon.co.uk>.

Changed -d option processing to allow specification
of a comma-separated list of file descriptors.

Modified SCO support to allow NFS code to be optional
at the request of Dave Gilbert
<agere!dgilbert%peapod.com@zool.interaccess.com>.

Enabled HP-UX 10.x version to display device and
inode numbers for FIFOs. The problem was reported
by Jeff Earickson <jaearick@colby.edu>.

3.53 December 8, 1995
Enhanced NeXTSTEP FIFO reporting.

Fixed a formatting problem in the man page, reported
by Angel Li <angel@flipper.rsmas.miami.edu>.

Added support for DEC OSF/1 4.0-BETA. Angel Li
provided the test system.

Added a -v option to display lsof version information.
Marty Leisner <leisner@sdsp.mc.xerox.com> suggested
this.

Replaced touch with echo in Inventory script to avoid
DEC OSF/1 4.0 complaint.

Tested under PTX 4.1.2.

3.54 December 15, 1995
Added support for IRIX 6.2-BETA. The support for
older IRIX

versions changed considerably in the
process. Revision 3.54 has been tested under these
older IRIX versions: 5.3 and 6.1. Angel Li
<angel@flipper.rsmas.miami.edu> provided a test
system and Jim Brown <jim@guanabana.rsmas.miami.edu>
helped.

Tested under AIX 4.1.4.

Decommissioned the DYNIX port -- I no longer have
access to a test system.

Added the HASXOPT_ROOT define to allow the lsof
builder to restrict the use of the dialect-specific
X option (AIX and PTX currently) to processes whose
real user ID is root. Updated the Customize script
to provide an easy mechanism to change HASXOPT_ROOT.
AIX uses HASXOPT_ROOT; PTX does not. This change
was suggested by R. Lindsay Todd <toddr@rpi.edu>.

3.55 December 22, 1995
Eliminated need for modified DEC OSF/1 headers by
using #undef and #define statements. Chip Stettler
<STETTLERC@wlmpo1.wilm.ge.com> helped test.

Added quick start documentation file, 00QUICKSTART,
containing examples and explanations
of lsof use.

Verified that lsof works under the released Solaris
2.5.

3.56 January 2, 1996
Corrected lock reporting for Solaris 2.[345].

Corrected Linux malloc() kernel symbol handling bug,
reported by Keith Parks <emkxp01@mtcc.demon.co.uk>.

Corrected AIX loader text file selection bug; it
caused all process IDs to be listed when the -t
option and one file system name was specified.
The bug was reported by Christopher C. Evert
<cevert@waii.com>.

Made sure Solaris Kb variable is zeroed before
first use.

3.57 January 12, 1996

Updated SunOS port to obtain lock information from
v_filocks and the lock_list struct to which it
points.

Changed -H to -n. The function formerly performed
by -n can be done by using -i with no address.

Updated Linux FIFO support so that the display for FIFOs
contains device number, inode number, and NAME. Johannes
Kroeger <jkroeger@squirrel.owl.de> reported the lack of
these items in the Linux FIFO display.

Added
RCS identification to header files, Makefiles,
and common fragments.

Added BSDI BSD/OS support for 2.0, 2.0.1, and 2.1-BETA.
Terry Kennedy <terry@spcvxa.spc.edu> kindly provided a
2.1-BETA test system and did the 2.0.1 testing.

Modified the Inventory script to compensate for dialects
that have an expr that doesn't set its exit code when
string matches fail.

Converted internal representations of file offset and
size to unsigned long.

Corrected bug in NetBSD lock handling.

Corrected bug in FreeBSD file system type name handling.

Keith Parks <emkxp01@mtcc.demon.co.uk> reports lsof
3.57 compiles and runs under Linux 1.3.56.

3.58 February 7, 1996
Changed Solaris 2.3 configuration to pass the level
of patch 101318 to the source code. This allows
a Solaris 2.3 lock handling difference to be
accommodated.

Updated 00QUICKSTART to reflect -n and -H changes
made in revision 3.57. (Ooops!)

Changed Configure script to compile lsof for SCO
versions
beyond 3.2v5.0.0 as it is compiled for
3.2v5.0.0. Bill Campbell <bill@celestial.com>
reported he has done this successfully.

Added information to 00FAQ about a Linux kernel symbol problem (section 3.7.6) and included a <linux/random.h> patch to work around it. The patch was supplied by Keith Parks <emkxp01@mtcc.demon.co.uk>.

3.59 February 21, 1996

In response to a query from Louis Rayman <lou@asahi.ps.quotron.com>, added special support for Solaris "sockmod" streams, used for Unix domain sockets, that allows their file system device type and inode number to be displayed. It also allows lsof to search for them by name or type (-U).

Added range handling to -d argument.

Added the display of CDFS file size to DEC OSF/1 output.

Added an include of <rpc/xdr.h> to keep gcc on HP-UX 10 happy. Blair Zajac <blair@olympia.gps.caltech.edu> suggested it.

Added Ultrix 4.5 to support list, courtesy of a notification from Gregory Neil Shapiro <gshapiro@WPI.EDU>.

Added AFS support for Solaris 2.4 at the request of Michael L. Lewis <mlewis@morgan.com> and Phillip Moore <wpm@morgan.com>. Phillip helped me locate a test host, generously provided by Heidi Hornstein <heidi@cmf.nrl.navy.mil> with support from Chaskiel Moses Grundman <cg2v+@andrew.cmu.edu> and Sushila R. Subramanian <sushi@cmf.nrl.navy.mil>. Lsof is configured for AFS with a new script, AFSConfig.

Used a SunOS 4.1.4 test system, provided by Chaskiel, to extend Solaris AFS support to cover SunOS. Used another test system, provided by Chaskiel, to extend AFS support to NEXTSTEP 3.2.

Tested lsof under AFS on yet another Chaskiel-provided system, running Linux 1.2.13 and AFS 3.3, and found that lsof needed no changes to recognize its AFS files.

Used a test system, provided by Curt Freeland <curt@grumpy.cse.nd.edu> and Terry McCoy <terry@anubis.cc.nd.edu> to extend Solaris AFS support to Solaris 2.5 with AFS 3.4-Alpha.

Added
the [-A A] option for specifying the name list
file that contains dynamic kernel module addresses.
This is defined for the NEXTSTEP, SunOS, and Solaris
implementations.

Added stty isig handling (where appropriate) to
the Customize and Inventory scripts.

Added support to Solaris for the nfs3 file system
type. Its absence was reported by Patrick D.
Sullivan <pds@snt.bellsouth.com>.

In response to a report from Tigran Aivazian
<bs_s641@ceres.king.ac.uk)> corrected bug in Linux
local nlist() function and based the default kernel
loader format on a Configure test for CONFIG_KERNEL_ELF
in /usr/src/linux/include/linux/autoconf.h.

Fixed a bug in name cache exploration for BSD-derived
dialects -- e.g., FreeBSD.

Updated for NetBSD 1.1.

3.60 February 27, 1996
Improved Unix domain socket reporting for Solaris.
Louis Rayman <lou@asahi.ps.quotron.com> helped test.

Added warning messages about absence of Linux
CONFIG_MODULES definition in autoconf.h,
leading
to lack of get_kernel_syms() support. Tigran
Aivazian <bs_s641@ceres.king.ac.uk)> supplied the
information.

3.61 March 8, 1996
Added AFS support for AIX and HP-UX and verified
that the lsof Ultrix version needs no additions
for AFS. Chaskiel Moses Grundman <cg2v+@andrew.cmu.edu>
provided the HP-UX and Ultrix test systems. Jan
Tax <jan_tax@unc.edu> provided an AIX 4.1.4 test
system. Bob Cook <bobcook@SLAC.Stanford.EDU> provided
3.2.5 and 4.1.4 test systems.

Fixed minor problems and made improvements to
NEXTSTEP, Solaris, and SunOS AFS support. Changed
the AFSConfig script to ask for AFS version.

During the Hp-UX AFS work, added the hpuxgcc
abbreviation to the Configure script for configuring
lsof to be compiled with gcc under lsof.

Fixed a NetBSD mount structure array referencing
bug, reported by Peter Svensson <petersv@df.lth.se>.

Dropped support for Motorola V/88, because I no
longer have access to test systems.

Added rudimentary
support for the IRIX XFS file
system type, pending more information.

3.61 March 12, 1996
Corrected misuse of the LSOF_DINC shell variable
in the Configure script for HP-UX and Solaris.
Larry Rogers <lrr@cert.org> pointed out this problem.
Also removed an obsolete irix52 abbreviation from
Configure.

I didn't consider this change sufficient to warrant
a new version number, but just rebuilt the 3.61
distribution.

3.62 March 26, 1996
Updated AFS comments in 00README.

Supplied missing break statement in a N_VXFS case
clause in the HP-UX dnode.c.

Added Veritas file support to PTX, courtesy of code
supplied by Laurent Montaron <lpm@sequent.com> and
help from Kevin Smallwood <kcs@sequent.com>.
Created two new source modules (dnode[12].c) to
separate PTX header file node definitions and thus
eliminate symbol conflicts. Laurent did most of
the testing.

Added tests to BSDI, FreeBSD, HP-UX, IRIX, NetBSD,
NEXTSTEP, PTX, Solaris and SunOS lsof
versions that
allow them to report on unknown file system types.

Added IRIX 6.0.1 #if/#else/#endif support in response
to a report and suggested modifications from Scott
Presnell <srp@zgi.com>.

With the help of Dave Olson <olson@anchor.engr.sgi.com>
improved the IRIX 6.2-BETA XFS support.

3.62 March 27, 1996
Corrected SunOS incompatibility with last-minute
addition of Solaris MVFS support. The problem was
reported by Larry W. Virden <lvirden@cas.org>.

I didn't consider this change sufficient to warrant
a new version number, but just rebuilt the 3.62
distribution.

3.63 April 11, 1996
Upgraded Solaris MVFS support. In the process,
enlarged Solaris and SunOS DEVICE output column.

Changed SunOS 4.1.x Configure to make -DNOCONST
Makefile definition dependent on SC version.

At the suggestion of John DiMarco <jdd@cdf.toronto.edu>
suppressed two warning messages: the device cache
file creation warning when -Db has been specified;
and the one
issued when -D? is used with a non-writable
system-wide device cache file and there is no other
writable path. Also at John's suggestion redid
the manner in which child processes are used to
avoid kernel calls that might block; the net effect
of the change is that normally one child process
is required, rather than one per kernel call.

Refined the NetBSD test for <nfs/nfsproto.h> with
a Configure script change.

Modified Configure script to compute AIX version
with ``uname -rv'' when /usr/bin/oslevel can't be
executed. Stephen C. Woods <scw@seas.ucla.edu>
suggested this.

Disabled conflicting prototype definitions in the
local netdb.h used when the SCO 3.0 netdb.h is
missing. Disabled #include of <strings.h> unless
the SCO version is 5.0 or above. Don Kirouac
<dkirouac@minicom.com> pointed out these problems.

3.63 April 15, 1996
Improved Configure's SunOS 4.1.x CC test for compiler

support of the const keyword and avoided Configure's
``test
-f {Customize,Inventory}'' (because the
Ultrix test doesn't grok -x) in response to a report
from Larry Schwimmer <rosebud@cyclone.Stanford.EDU>.

I didn't consider this change sufficient to warrant
a new version number, but just rebuilt the 3.63
distribution.

3.64 April 26, 1996
Added a negate option for entries of the -u list.
Kurt Hillig <khillig@Chem.LSA.umich.edu> suggested
it.

Added a check for legal protocols in the -i option.

Adjusted the Configure and SGI MkKernOpts scripts
to handle more IRIX situations per instructions
from Dave Olson <olson@anchor.engr.sgi.com>.

Added support for HP-UX 10.10, courtesy of a test
system provided by Mark Bixby <markb@cccd.edu>.

3.65 May 20, 1995
Corrected errors, reported by Arne H. Juul
<arnej@pvv.unit.no>, in use of IRIX stat structure.

Added support for the IRIX 6.2 cachefs, following
a report from Peter Van Epp <vanepp@sfu.ca>.

Added clone support for AIX 4.1.4 and above.

Adjusted the
IRIX configuration to work properly
for 64 bit IRIX 6.2 systems. Richard Chycoski
<richard@sfu.ca> and Peter Van Epp <vanepp@sfu.ca>
provided a test system.

3.66 June 19, 1996
Improved the HP-UX VXFS test in the Configure
script, based on a report from Robert Hall
<rjh6810@misty.ca.boeing.com>.

Added SCO information to 00FAQ. Added information
about lsof slowness and nameserver.

Added an untested Configure abbreviation for Solaris

2.5.1.

Ambrose Li <ambrose@www.mingpaoxpress.com> supplied
a Linux change that avoids a conflict with the
d_namlen definition in versions 1.99.8 and above.

Added compiler version identification to the
Configure script for AIX and Solaris cc.

Added support for FreeBSD 2.2-960612-SNAP. Ade
Barkah <mbarkah@hemi.com> provided a test system.

3.67 Jult 1, 1996
Made miscellanous documentation corrections.

Added support for gcc under AIX 4.1 and above,
including an aixgcc Configure abbreviation, and a
work-around
for an long long alignment problem.
Stuart D. Gathman <stuart@bmsi.com> and Waldemar
Zurowski <bilbo@pwr.wroc.pl> helped me to understand
the gcc problem and devise the work-around.

3.68 July 17, 1996
Malgorzata Roos <groos@rzusun.unizh.ch>: pointed
out the AIX lsof didn't report the inode number
for named pipes (FIFOs) and wouldn't locate them
by name; _and_ supplied a fix. (Now _that's_ the
kind of bug report I like. :-)

Update Configure script to clean out aix41*
subdirectories created by the AIX gcc work-around.

Taught IRIX lsof how to report the correct device
number, inode number, and size for named NFS pipes.

Taught HP-UX 9.x lsof how to report size/offset
and inode number for named NFS pipes. (HP-UX 10.x
already knows.)

Taught DEC OSF/1 (errr, Digital Unix) lsof to report
device and inode numbers correctly for named pipes.
Because stat(2) under DEC OSF/1 V3.2 doesn't report
the device number correctly for named pipes, lsof
can't
locate them by name, but it can do that under
DEC OSF/1 V2.0.

Taught EP/IX 2.1.1 lsof to report device and inode numbers correctly for named pipes.

Taught versions of lsof for PTX 2.1.6 and 4.1.2 to report device and inode numbers correctly for named pipes.

Taught RISC/os 4.52 lsof to report device and inode numbers correctly for named pipes.

Taught versions of lsof for Ultrix 4.2 and above to report inode numbers and file systems names correctly for named pipes (FIFOs).

Added safety check when trying to get a sockaddr_un structure from a BSDI, FreeBSD, or NetBSD mbuf.

Improved documentation on install permissions in 00README at the suggestion of Paul Wickman <Paul.Wickman@amd.com>.

Installed support for the DTYPE_PIPE file structure in FreeBSD 2.2. Changed the FreeBSD version symbol from _FREEBSDV to FREEBSDV.

Added support for NetBSD 1.2.

3.69 July 30, 1996

Added block device name caching and reporting for all dialects.

Improved
(I think) IRIX 6.2 64 bit configuration.

Eliminated C name space pollution by removing the leading `_' from all dialect version symbols that had it: _AIXV, _BSDIV, _OSF1V, _ADVFSV, _EPIXV, _HPUXV, _IRIXV, _PTXV, _RISCOSV, and _SCOV.

Changed decosf stanza in Configure script to automatically detect the subdirectory of /sys (or /usr/sys) that contain's the configuration header files for the machine. Added a 00FAQ entry about this.

3.70 August 9, 1996

Set the execute bits on scripts/big_brother.perl5.
Changed -H in scripts/watch_a_file.perl to -n.

Retained all the command name characters that are available in the proc or user struct for field output. Improved sample install rules for BSDI and HP-UX. Strengthened HP-UX CCITT test in the Configure script. Gildas Perrot <perrot@francenet.fr> suggested these changes.

Improved Solaris local TCP address reporting, based on a bug report from John Caruso <jcaruso@csg.com>.

Improved HP-UX VFS handling, and corrected a bug in VFS handling, based on bug reports from David Capshaw <David.Capshaw@SEMATECH.Org>.

Added support to -i argument handling to allow port lists and ranges, and service name lists to be specified. John DuBois <spcecdt@armory.com> suggested this.

Dropped support for IRIX 4.0.5H. Revived support for IRIX 5.2, courtesy of a test system from Dan Trinkle <trinkle@cs.purdue.edu>.

3.71 August 15, 1996

Improved handling of port ranges specified with the -i option. Improved performance when the only option is -i.

3.72 August 28, 1996

Fixed bugs and typos in SCO mount table handling.

Added support for OpenBSD (only the i386 architecture type has been tested), using the NetBSD dialect sources. David Mazieres <dm@amsterdam.lcs.mit.edu> provided a test system.

Added fdesc file system support to FreeBSD, NetBSD and OpenBSD. Changed the way proc file system support is activated with additions to the Configure script and changes to the dialect machine.h files. Dropped the distribution of the Freebsd <procfs/procfs.h> header file.

Added support for PTX 4.1.4.

3.73 September 5, 1996

Added information to 00FAQ for missing CCITT HP-UX
header file x25L3.h. Pasi Kaara <ppk@atk.tpo.fi>
provided the information.

Changed AIX header file #include pattern to prevent
gcc's loader from complaining about multiply defined
etherbroadcastaddr[], fddi_broadcastaddr[], and
ie5_broadcastaddr[] CONST u_char arrays from
<net/net_globals.h>. (The AIX loader doesn't
complain.) David Capshaw <David.Capshaw@SEMATECH.Org>
reported this problem.

Removed the HASPWSTAYOPEN definition; it was only
used for two dialects that are no longer supported.

Corrected a bug in UID cacheing that appeared during
long repeat-mode (-r) operations. The bug was
reported by Peter Van Epp <vanepp@sfu.ca>. When
in repeat mode the UID cache will be cleared when
/etc/passwd changes.

Fixed a bug in
FreeBSD support that causes a
segmentation fault on VBAD vnodes.

Deleted ultrix22 from Configure and RHF from Ultrix
source files. Dropped 2.2 from support list.

3.74 September 6, 1996
Corrected a bug in FreeBSD's proc table handling,
reported by David O'Brien <obrien@Nuxi.cs.ucdavis.edu>.

3.75 September 9, 1996
Added FreeBSD proc table handling fix from revision
3.74 to BSDI, NetBSD, and OpenBSD dialects.

Improved Solaris VFS handling.

Added pipe handling to OpenBSD. Changed Configure
script to define OPENBSDV for OpenBSD and used that
definition to include the pipe support in the NetBSD
sources. The Configure script defines NETBSDV for
NetBSD. So far neither dialect has any #if/#else/#endif
blocks that depend on version number.

Added support for AIX 4.2.

3.76 September 21, 1996

Plugged a memory leak in command handling, introduced in revision 3.70. The bug was reported by Peter Van Epp <vanepp@sfu.ca>.

Fixed a bug in the reporting of size for IRIX 5.3 EFS files, introduced in revision 3.69 by the name space pollution abatement. The _IRIXV definition was used in the IRIX 5.x private efs_inode.h header file to configure the inode stricture for IRIX 5.3, so I changed the tests to use IRIXV.

Changed information on the AIX Stale Segment ID bug to reflect the fact that IBM now says they won't fix it. They have closed the APAR.

Disabled the AIX gcc long long alignment hack under AIX 4.2, because it doesn't work there. Installed a fatal error message in Configure that gcc can't be used to compile lsof under AIX 4.2 until a work-around can be developed.

Upgraded BSDI, FreeBSD (2.0 and above), NetBSD (1.1B and above), and OpenBSD lock reporting. David Mazieres <dm@amsterdam.lcs.mit.edu> reported the need for the upgrade.

Made similar lock reporting upgrades to (versions tested are in parentheses): AIX (4.1.4 and 4.2); DEC OSF/1 (2.0 and 3.2d); EP/IX (2.1.1); HP-UX (9.x and 10.10); IRIX (5.2, 5.3, and 6.2); Linux; NEXTSTEP (3.1); PTX (2.1.6 and 4.2); RISCos; SCO (releases 3.0 and 5.0); Solaris (2.5); SunOS (4.1.3); and Ultrix (4.2).

Updated man page and 00FAQ with more information on lock reporting.

Updated PTX lsof for 4.2. Upgraded HP-UX lsof for 10.20. Used a test system, provided by Richard Allen <ra@rhi.hi.is>, and received testing assistance from Marc Winkler <marc@healthchex.com>.

Changed handling of Internet addresses to avoid DNS lookup operations when the address has clearly not been selected. John DuBois <johnd@sco.COM> suggested this.

3.77 October 2, 1996

Changed SCO Configure stanza to call nm by its full path, thus avoiding possible confusion. The change was suggested by Jean-Pierre Radley <jpr@jpr.com>.

Added changes to allow lsof to be compiled by gcc under AIX 4.2 -- enabled some gcc-specific typedef's in the AIX machine.h and disabled the Configure script's rejection of aixgcc for AIX 4.2. The typdef's were supplied by Henry Grebler <henryg@optimation.com.au>.

Based on information supplied by Henry and David J. Wilson <davidw@optimation.com.au>, invented a description and processing for an unknown file struct that is established by AIX 4.2 (at least) for X processes when DISPLAY=:0.0. For convenience I gave its type the DTYPE_PIPE definition, but that may be incorrect.

Fixed some Solaris 2.[34] errors in locking code, added at 3.76, that I couldn't test. Rainer Orth <ro@TechFak.Uni-Bielefeld.DE> reported the problem and supplied the fixes.

Made Configure script supply NeXTSTEP 3.x version in Makefile so that the shadow vnode locking code, introduced in 3.76, would be disabled for NeXTSTEP 3.0. Rainer Orth discovered this problem, too.

Added reporting of UNIX domain socket inode numbers for Linux version 2.0 and above. The addition was supplied by Matthew Burt <BurtM@poole.siemens.co.uk>.

Enhanced file searching to report all instances of references to automounted file systems, even when they're direct mounts not yet realized. Enhanced Solaris 2.5 lsof to grok autofs nodes. Victoria H. Lau <vlau@msmail2.hac.com> pointed out the need for these enhancements and helped test them.

Changed AIX lock length test so it will work with gcc under AIX 4.2.

Changed PTX HAS_VXFS symbol, indicating presence

of VxFS, to HASVXFS for consistency with the HP-UX
form of the symbol.

3.78 October 14, 1996
Changed strtol() call in private Linux nlist()
function to strtoul(). Linux kernel addresses at
2.1.0 have their top bit set and appear to be
negative to strtol(). This information was provided
by Marty Leisner <leisner@sdsp.mc.xerox.com>.
Marty also notes that other, unknown-as-of-yet
problems prevent lsof from working under 2.1. He
is investigating, since I don't have access to a
2.1 system.

Added definitions to machine.h for a private file
struct type (HASPRIVFILETYPE
and PRIVFILETYPE) that
can be accommodated without changing prfp.frag,
much as HASPIPEFN works for PIPE file struct types.

Used the new private file struct type support to
support the AIX f_type=0xf that DISPLAY=:0.0 causes.
Changed its output TYPE from PIPE to SMT; displayed
file size as buffer size less free bytes in buffer;
enabled recognizion under AIX 4.1.4. Mike Feldman
<feldman@charm.urbana.mcd.mot.com> and others helped
me identify this file as a Shared Memory Transport
(SMT) socket.

Corrected a function prototype in the HP-UX dnode.c
for HP-UX 10 and greater; gcc objected; HP's cc did
not. Christian Krackowizer <kra1@technodat.co.at>
reported the problem.

Made AFSConfig script more capable of locating the
cell's root directory. Updated AFS documentation
in 00FAQ and 00README. Both were suggested by
Timothy Miller <tsm@cs.brown.edu>.

Installed update to big_brother.perl5 script from
Lionel Cons <Lionel.Cons@cern.ch>.

3.79 October
29, 1996
Added support for IRIX 6.4, courtesy of a test
system provided by Angel Li <angel@rrsl.rsmas.miami.edu>.
Fixed FIFO and NFS3 bugs in IRIX 6.2 lsof in the
process. Lsof has not been tested under IRIX 6.3,

but the Configure script has a stanza for it.

Changed device functions to use stat() instead of lstat(). Used WARNDEVACCESS to suppress stat(2) failure messages.

Tested under OpenBSD 2.0.

3.80 November 8, 1996

Corrected comments in 00README about using the sunos413 and sunos413cc Configure abbreviations.

Made some Configure and Customize script changes, suggested by Bruce Jerrick <bruce@cse.ogi.edu>.

Added missing elements to definition of local Solaris 2.3 lock_descriptor structure so that dnode.c will compile and work properly under it. Corrected a bug in Solaris 2.[34] lock descriptor handling.

3.81 November 14, 1996

Corrected error in the "invented" HP-UX 10.20 proc struct. The erroneous struct definition named the set-UID
member as the UID member, resulting in occasional incorrect UID attributions in lsof output.

At the suggestion of Larry Schwimmer <schwim@cyclone.stanford.edu>, changed AFSConfig to use awk to get the cell name from /usr/etc/vice/ThisCell, thus avoiding a problem when the cell name line has more than one word.

Added -DSWASH to IRIX 6.2 options propagated from the kernel build CCOPTS to lsof's Makefile. Randolph J. Herber <herber@dcdrjh.fnal.gov> did the detective work that revealed the need for this. IRIX 6.2 patch 1488 added -DSWASH and its effects.

3.82 December 11, 1996

Updated Configure script for FreeBSD 3.0 and SCO OpenServer 5.0.[24]. FreeBSD Configure script change was supplied by David E. O'Brien <obrien@NUXI.com> and SCO Configure script change was supplied by Bela Lubkin <belal@sco.COM>.

Tested lsof under FreeBSD 3.0, courtesy of a test
system provided by Ade Barkah <mbarkah@hemi.com>.

Added changes to support SCO OpenServer
5.0.4
(Comet), supplied by Bela Lubkin <belal@sco.COM>.

Added support for UnixWare 2.1. D. Chris Daniels
<chrisd@dlpco.com> provided a test system and Bela
Lubkin provided technical assistance.

Added support for Pyramid DC/OSx 1.1 and Reliant
UNIX 5.43. Bruce Beare <bjb@pyramid.com> and Kevin
Smith <kevin@pyramid.com> provided test systems
and technical assistance. This dialect version
must run setuid-root, since it accesses proc and
user structures vic the /proc file system.

Tested under PTX 2.1.9 and added support for PTX
4.2.1.

At Bela Lubkin's suggestion added a commercial to
the lsof man page, -h option, and -v option output,
telling where to get the latest revision. This
entailed large scale rearrangement of the -h output
to keep it as short as possible. It also involved
shortening the -X explanation for PTX.

Made sure that address segment access errors didn't
incorrectly force the listing of a process. This
fix was needed
by the Sun, Pyramid, and UnixWare
ports.

Corrected bug in the way the local device table is
sorted.

3.83 December 30, 1996
Added support for Solaris 2.6 (Beta) with help from
Casper Dik <casper@holland.Sun.COM>, May Jackson
<methalya.jackson@eng.sun.com>, Joseph Kowalski
<jek3@Eng.Sun.COM>, and the Solaris 2.6 Beta test
program.

Fixed an inode file system type processing bug in
SCO OpenServ 5.0 and greater, reported by Robert
Lipe <robertl@arnet.com>.

Fixed bugs in SCO kernel name cache probing, courtesy
of code and suggestions from Bela Lubkin <belal@sco.COM>.

Revised kernel name list handling to remove the need
for changing two files (dlsof.h and dstore.c) when
altering, removing, or adding name list symbols.
All dialects were affected.

Added support for SCO OpenServer event "clones."
Robert Lipe need for their support and Bela Lubkin
provided technical assistance in identifying them.

Added display of bound name to Solaris UNIX
domain
socket file handling.

Correct bug in SunOS address space ("txt" file)
handling.

Tested under UnixWare 2.1.1.

Changed SGI IRIX lsof to use the kernel's proc
struct size when striding through its proc table
(IRIX versions below 6.4). The proc struct size
difference warning is still issued, and lsof still
uses the proc struct size and proc struct from
<sys/proc.h> to read and process proc table
information. Added a note to 00FAQ about this.

Deferred Internet host and port name lookups to
print time, thus avoiding lookups for files that
are not listed.

3.84 January 13, 1997
Updated the Pyramid private configuration script,
MkKernOpts, to propagate the R4000 definition for
DC/OSx systems so equipped. Anthony Shortland
<anthony.shortland@FMR.COM> pointed out the need
for this and Kevin Smith <kevin@pyramid.com> provided
access to a test system.

Added information to 00FAQ about UDP ports for
which lsof can't find users, because the
ports are
reserved to the kernel and aren't associated with
open files.

3.85 January 17, 1987

The DEC OSF/1 kernel name cache can be processed
as a simple table, rather than a linked list, so
changed the interface to rnam.frag accordingly.

Added a new optional output field, parent process
ID (PPID). The -R option (for paRent) selects it,
and the `R' field identifier labels it. Updated
some scripts to handle it and developed two new
scripts, idrlogin.perl and idrlogin.perl5, to
use it in locating nework (rlogind and telnetd)
source addresses for shell processes. Added some
information about the new scripts to 00QUICKSTART.

3.86 January 30, 1997
Add explanation of why device warning messages
disappear when the device cache file is used.

Changed Linux Configure stanza to check more
places for the [z]System.map file and warn if
the one located differs in date from /vmlinuz.
Bjorn S. Nilsson <NILSSON@nbivms.nbi.dk> suggested
this for easier configuration
at Linux 2.0.28.

Changed Linux Confifgure stanza to check for the
presence of fl_fd, fl_file, and fl_whence in the
file_lock structure of <linux.fs.h> and define
symbols appropriately.

Changed Linux lock testing to test task structure
pointer (fl_owner) from file_lock struct as well
as (possibly) the file struct pointer (fl_file) or
file decriptor number (fl_fd) to identify the lock
owner, depending on what HAS_FL_* symbols were
defined by Configure's file_lock structure examination.
Added section to Linux Problems in 00FAQ about this.

Corrected 00FAQ reference in Configure's Solaris
2.4 stanza.

3.87 February 11, 1997
Corrected setting of VxFS device number for HP-UX
and PTX.

Added VM map flag test #if/#else/#endif for recent
versions of FreeBSD 3.0, supplied by Chris Timmons
<skynyrd@opus.cts.cwu.edu>.

Added a #define that removes a conflict between a
signal() prototype in the IRIX 6.4 <sys/systm.h>
and one in its <sys/signal.h>,
exposed when cachefs
support is enabled. Wolfgang Hecht
<hecht@zedat.fu-berlin.de> identified the need for
this addition and helped test it. Refined IRIX
proc struct size test, warning, and use.

Revised Linux system map file handling (yet again)
to search for the file at execution time, rather
than in the Configure script. Marty Leisner
<leisner@sdsp.mc.xerox.com> suggested this.

Added VxFS support to Solaris lsof with help from
Peter Radig <radig@DresdnerBank.de>. Philip Kizer
<pckizer@tamu.edu> helped test.

Added support for PTX 4.3, thanks to access provided
by Peter Jordan <petej@sequent.com>.

3.87 February 11, 1997
supplement Updated FreeBSD kernel name list handling.

3.88 February 17, 1997
Added documentation files -- 00.README.FIRST[_<version>]
and 00RELEASE.SUMMARY_<version> -- to the distribution.

Vic Abell <abe@purdue.edu>
Purdue University Computing Center
February 17, 1997

Found in path(s):
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/OLD/lsof3_00DIST
No license file was found, but licenses were detected in source scan.

From: Sandel, Ken L. <sandel@purdue.edu>
Sent: Tuesday, July 10, 2018 14:28
To: Victor Abell
Subject: RE: One more question regarding GitHub release

Vic,

For clarity I approved the release.

Ken

Ken L. Sandel
Senior Director, Sponsored Program Services
Senior Intellectual Property Officer
Purdue University
610 Purdue Mall
Hovde Hall Room 328
West Lafayette, IN 47907
sandel@purdue.edu
(765) 494-1063 (office)
(765) 426-2530 (cell)

From: Kasper, Joseph R. <JRKasper@prf.org>
Sent: Tuesday, July 10, 2018 11:23 AM
To: Victor Abell <vabell@lsof.comcastbiz.net>
Cc: Sandel, Ken L. <sandel@purdue.edu>
Subject: RE: One more question regarding GitHub release

Hi Vic,

My apologies for not following up. Mr. Sandel approves the release on GitHub under the copyright notice text currently in use.

Best,
Joe

Joseph R. Kasper, Ph.D.
Senior Business Development Manager & Director of Marketing
Office of Technology Commercialization

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From: Victor Abell <vabell@lsof.comcastbiz.net>
Sent: Monday, July 9, 2018 8:26 PM
To: Kasper, Joseph R. <JRKasper@prf.org>
Subject: RE: One more question regarding GitHub release

Joe,

Has there been any word from Ken about the release
of lsof to GitHub?

Vic

From: Kasper, Joseph R. [mailto:JRKasper@prf.org]
Sent: Thursday, June 28, 2018 1:15 PM
To: Victor Abell
Subject: RE: One more question
regarding GitHub release

Hi Vic,

One more request. Ken would like a copy of the email from Gerry. If for any reason you arent comfortable sending it to me, please contact Ken directly (765-494-1063, sandel@purdue.edu).

If this last piece of information is satisfactory to Ken, I expect to get his approval.

Thanks for your cooperation throughout this process.

Best,
Joe

From: Victor Abell <vabell@lsof.comcastbiz.net>
Sent: Thursday, June 28, 2018 7:43 AM
To: Kasper, Joseph R. <JRKasper@prf.org>
Subject: RE: One more question regarding GitHub release

Joe,

I sent e-mail to Gerry McCartney and in his answer he
says he has no objection.

Vic

From: Kasper, Joseph R. [mailto:JRKasper@prf.org]
Sent: Tuesday, June 26, 2018 4:03 PM
To: Victor Abell
Subject: RE: One more question regarding GitHub release

Hi Vic,

Thanks for the extra detail. I think it would put Kens mind at ease if you have Gerrys blessing. Let me know if youll reach out to him.

Best,
Joe

From: Victor Abell
<vabell@lsof.comcastbiz.net>
Sent: Tuesday, June 26, 2018 3:57 PM
To: Kasper, Joseph R. <JRKasper@prf.org>
Subject: RE: One more question regarding GitHub release

Joe,

I have had no communication with ITaP about the move to GitHub.
The extent of their involvement with lsof has been minimal the
Visiting Scholar appointment and the maintenance of a distribution
system.

I know Gerry McCartney well. Would it be helpful if I contacted
him about the GitHub move?

Vic

From: Kasper, Joseph R. [mailto:JRKasper@prf.org]
Sent: Tuesday, June 26, 2018 3:44 PM
To: Vic Abell; Victor Abell
Subject: One more question regarding GitHub release

Hi Vic,

Ken Sandel, Senior IP Officer, just got back to me. He wants to know if the leadership of ITaP supports the contribution to Github. Please let me know. If you have any communication to this effect that you can forward to me, it would be helpful.

Best,
Joe

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Found in path(s):
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/support/GitHub-release/Purdue
No license file was found, but licenses were detected in source scan.

Notes for the distribution of lsof version 4

```
**********************************************************************
| The latest release of lsof is always available from
| https://github.com/lsof-org/lsof/releases
|
| From 4.92.1, git is introduced to manage changes.
| You can consult the details of changes with git.
**********************************************************************
```

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Dialects Supported
==========

Lsof (for LiSt Open Files) lists files opened by processes on selected Unix systems. Version 4 is a source reorganization of version 3, itself a major revision of version 2. Version 4 has been tested on:

Apple Darwin 9 and Mac OS X 10.[567]
FreeBSD 10.3, 11.0 and 12.0 for AMD64-based systems
Solaris 9

(The pub/tools/unix/lsof/contrib directory on lsof.itap.purdue.edu contains information on other ports.)

If your favorite Unix dialect is not in the list, or if your version of it is more recent than the ones listed, please contact me at <abe@purdue.edu>.

Version 3 of lsof was tested on:

AIX 3.2.5, 4.1[.[1234]], and 4.2
BSDI BSD/OS 2.0, 2.0.1, and 2.1 for x86-based systems
DC/OSx 1.1 for Pyramid systems
Digital UNIX (DEC OSF/1) 2.0, 3.0, 3.2, and 4.0
EP/IX 2.1.1 for
the CDC 4680
FreeBSD 1.1.5.1, 2.0, 2.0.5, 2.1, 2.1.5 for x86-based systems
HP-UX 8.x, 9.x, 10.01, 10.10, and 10.20
IRIX 5.2, 5.3, 6.0, 6.0.1, and 6.[124]
Linux through 2.0.27 for x86-based systems
NetBSD 1.0, 1.1, and 1.2 for x86 and SPARC-based systems
NEXTSTEP 2.1 and 3.[0123]
OpenBSD 1.2 and 2.0 for x86-based systems
Reliant UNIX 5.43 for Pyramid systems
RISC/os 4.52 for MIPS R2000-based systems
SCO OpenServer Release 1.1, 3.0, and 5.0.x for x86-based systems
SCO UnixWare 2.1 and 2.1.1 for x86-based systems
Sequent PTX 2.1.[1569], 4.0.[23], 4.1.[024], 4.2[.1], and 4.3

Solaris 2.[12345], 2.5.1, and 2.6-Beta
SunOS 4.1.x
Ultrix 4.2, 4.3, 4.4, and 4.5

Version 3 and its predecessor, version 2, may be found at:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/OLD

How Lsof Works

Using available kernel data access methods -- getproc(), getuser(), kvm_*(), nlist(), pstat(), read(), readx(), /proc -- lsof reads process table entries, task table entries, user areas and file pointers to reach the underlying structures that describe files opened by processes.

Lsof interprets most file node structures -- advfsnodes, autonodes, cnodes, cdrnodes, devnodes, fifonodes, gnodes, hsnodes, inodes, mfsnodes, pcnodes, procnodes, rnodes, snodes, specnodes, s5inodes, tmpnodes. It understands NFS connections. It recognizes FIFOs, multiplexed files, Unix and Internet sockets. It knows about streams. It understands /proc file systems for some dialects. On many dialects it recognizes execution text and library references. It knows about AFS on some Unix dialects.

Lsof Output

The lsof output describes:

* the identification number of the process (PID) that has opened the file;

* the process group identification number (PGID) of the process (optional);

* the process identification number of the parent process (PPID) (optional);

* the command the process is executing;

* the owner of the process;

* for all files in use by the process, including the executing
text file and the shared libraries it is using:

* the file descriptor number of the file, if applicable;

* the file's access mode;

* the file's lock status;

* the file's device numbers;

* the file's inode number;

* the file's size or offset;

* the name of the file system containing the file;

* any available components of the file's path name;

* the names of the file's stream components;

* the file's local and remote network addresses;

* the TLI network (typically UDP) state of the file;

* the TCP state, read queue length, and write queue length
of the file;

* the file's TCP window read and write lengths (Solaris
only);

* other file or dialect-specific values.

Getting Started Quickly

If you want to get started using lsof quickly, or see some examples
of how lsof can be used, consult
the 00QUICKSTART file of the lsof
distribution.

The 00QUICKSTART file won't help you build or install lsof, but it
will cut through the density of the lsof man page, giving you more
readily an idea of what you can do with lsof.

For information on building and installing lsof, consult the 00README
file of the lsof distribution.

Limiting, Filtering, and Selecting Lsof Output

Lsof accepts options to limit, filter, and select its output.
These are the possible criteria:

* Process ID (PID) number -- to list the open files for a given process;

* Process Group ID (PGID) -- to list the open files for all the processes of a given process group;

* User ID number or login name -- to list the open files for all the processes of a given user;

* Internet address -- to list the open files using a given Internet address (host name), protocol, or port (number or name); or to list all open Internet files;

* command name;

* file descriptor name or number;

* list all open NFS files;

* list all open Unix domain socket files;

* list all uses of a specific file;

* list all open files on a file system.

Selection options are normally ORed -- i.e., an open file meeting any of the criteria is listed. The selection options may be ANDed so that an open file will be listed only if it meets all the criteria.

In the absence of any selection criteria, lsof lists files open to all processes.

Parsing Lsof Output with Another Program

The lsof -F option directs it to produce "field" output that can easily be parsed by another program. The lsof distribution contains sample awk, perl 4, and perl 5 scripts in its scripts subdirectory

that show how to post-process field output.

Repeat Mode

Lsof can be directed to produce output, delay for a specified time, then repeat the output, cycling until stopped by an interrupt or quit signal. This mode is useful for monitoring the status of some file operation -- e.g., an ftp transfer or a tape backup operation.

Repeat mode is more efficient when combined with lsof's selection options, since they limit lsof overhead.

It's possible to use lsof's field output options to supply repeat mode output to another process for its manipulation. The scripts subdirectory of the lsof distribution has sample Perl scripts showing how to consume lsof repeat mode output from a pipe.

Distribution Restrictions

Lsof may be used and distributed freely, subject to these limitations:

1. Neither the author nor Purdue University is responsible for any consequences of the use of this software.

2. The origin of this software must not be misrepresented, either by explicit claim or by omission. Credit to the author and Purdue University must appear in documentation and sources.

3. Altered versions must be plainly marked as such, and must not be misrepresented as being the original software.

4. This notice may not be removed from or altered in the lsof source files.

Cautions

Lsof is a tool that is closely tied to the Unix operating system version. It uses header files that describe kernel structures and reads kernel structures that typically change from OS version to OS version.

DON'T TRY TO USE AN LSOF BINARY, COMPILED FOR ONE UNIX OS VERSION, ON ANOTHER.

On some Unix dialects, notably SunOS and Solaris, lsof versions may be even more restricted by architecture type. An lsof binary, compiled for SunOS 4.1.3 on a sun4c machine, for example, won't work on a sun4m machine.

AN LSOF BINARY, COMPILED FOR ONE SOLARIS 1.X ARCHITECTURE, ISN'T GUARANTEED TO WORK ON A DIFFERENT SOLARIS 1.X ARCHITECTURE.

Distribution Contents
==========

The lsof distribution is checked for completeness when it is constructed and by the Inventory script when you run the Configure script. (See The Inventory Script section of the 00README file of this distribution.)

Lsof is organized in these parts:

* The main lsof directory, containing common sources, configuration and setup scripts and three subdirectories: dialects/, lib/, and scripts/.

  Lsof is compiled in the main lsof directory after configuration. The selected dialect sources are copied or linked from the specified subdirectory. (Symbolic linking is the standard method.)

  Common lsof definitions may be found in lsof.h; common function prototypes, proto.h; and common storage, store.c.

* The dialects/ subdirectory contains subdirectories with sources specific to UNIX dialect implementations -- e.g., the dialects/sun/ subdirectory contains sources for the SunOS (Solaris 1.x) and Solaris (2.x) implementations of lsof. The dialects subdirectories also contain Makefiles and scripts for assisting dialect source configuration.

  Dialect configuration definitions may be found in dlsof.h; other dialect definitions, dlsof.h; dialect prototypes, dproto.h; and dialect storage, dstore.c.

* The lib/ subdirectory contains sources for common lsof functions. Not all dialects use the functions -- some have their own versions of them. The lib/ functions are enabled and customized with #define's in the dialect machine.h header files.

* The scripts/ subdirectory contains sample scripts for processing lsof field (-F) output. The scripts are written in AWK, Perl 4, and Perl 5.

The 00PORTING file of the lsof distribution has more information on lsof components, configuration, and construction.

Warranty

Lsof is provided as-is without any warranty of any kind, either expressed or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. The entire risk as to the quality and performance of lsof is with you. Should lsof prove defective, you assume the cost of all necessary servicing, repair, or correction.

Bug Reports

Now that the obligatory disclaimer is out of the way, let me hasten to add that I accept lsof bug reports and try hard to respond to them. I will also consider and discuss requests for new features, ports to new dialects, or ports to new OS versions.

PLEASE DON'T SEND A BUG REPORT ABOUT LSOF TO THE UNIX DIALECT VENDOR.

At worst such a bug report will confuse the vendor; at best, the vendor will forward the bug report to me.

Please send all bug reports, requests, etc. to me via email at <abe@purdue.edu>.

The lsof-l Mailing List

Information about lsof, including notices about the availability

of new revisions, may be found in mailings of the lsof-l listserv.
For more information about it, including instructions on how to
subscribe, read the 00LSOF-L file of the lsof distribution.

Version 3 Release Notes
==========

See
 00DIST in the last lsof 3 revision 3.88, for its complete
set of release notes. Lsof revision 3.88 may be found at:

 ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/OLD

3.0 May 24, 1994
  This is the first official release of lsof 3.

...

3.88 February 17, 1997

```
+=====================================+
| This is the last version 3 revision. |
+=====================================+
```

  Added documentation files -- 00.README.FIRST[_<version>]
  and 00RELEASE.SUMMARY_<version> -- to the distribution.

What's new in Version 4
==========

The main goal of version 4 was to eliminate the confusing common/
fragment source file technique. Changing the version number also
provided an opportunity to restart the numbering, which at 3.88
had risen to a large value.

The sources that appeared in the dialects/common subdirectory of
version 3 in fragment files have been incorporated into the version
4 liblsof.a library as *.c files. This results in significant
changes
 to many source files, scripts, and Makefiles of all dialect
versions. It allows elimination of some source files -- ddev.c,
dfile.c, dmnt.c -- for dialects now obtaining functions from
liblsof.a that formerly came from making dialect source files by
combining fragment files.

The version 4 liblsof.a sources are stored in the lib/ subdirectory

of the main lsof directory. The liblsof.a functions are activated
and conditioned in their source files by values #define'd in the
dialect dlsof.h and machine.h header files.

Dialects that provide a private version of a library function refrain
from #define'ing the symbol that would activate the library function
code.

Version 4 Release Notes
==========

4.0 February 24, 1997

```
+=====================================+
| This is the first lsof 4 revision. |
+=====================================+
```

Reorganized sources: eliminated code fragment files
and created a library in their place. Modified or
deleted
many dialect source and header files.
Changed documentation accordingly.

Added a warning to sgi/Makefile and 00FAQ that advises
against using the IRIX C compiler -n32 option when
compiling lsof. Thanks go to Peter Ilieve
<peter@memex.co.uk> for bringing this to my attention.

Dropped IRIX 5.2 in mid-stream, because my 5.2 test
system was upgraded to 5.3.

4.01 March 3, 1997
Added TFS support for Pyramid dialects.

Added test to Configure and to the IRIX dnode.c
for the different cnode struct that appears in
<cachefs/cachefs_fs.h> on the 6.2 IMPACT distribution.
Heddy Boubaker <boubaker@amfou.cenatls.cena.dgac.fr>
alerted me to the cnode change and helped test this
lsof adjustment.

Shut down the lsof child process before doing a -r
sleep(). A comment from Dan Mercer <dam@mmm.com>
prompted this.

4.02 March 21, 1997

Based on a report from Pasi Kaara <Pasi.Kaara@atk.tpo.fi>,
disabled HP-UX CCIT support in lsof for HP-UX
versions 10 and above.
Pasi's report also led to
changes in the HP-UX machine.h to support use of
gcc to compile lsof for HP-UX 10.20 and warnings
against using `cc -Aa` or `gcc -ansi` to compile
lsof under HP-UX 10.x.

With help from Richard Allen <ra@hp.is> taught
HP-UX 10.x lsof to name file systems better by
using the virtual file system device number. Elias
Halldor Agustsson <elias@rhi.hi.is> provided a test
system.

Changed NEXTSTEP and UNIXWARE Makefiles to use
safer quoting when generating version.h. The change
was suggested by Bob Farmer <ucs_brf@unx1.shsu.edu>.

Added SHELL=/bin/sh string to all Makefiles.

Added support for Linux 2.1.28 on a test system,
kindly provided by Jonathan Sergent <sergent@purdue.edu>.
Configure tests the Linux 2.1.x's C library lseek()
function for proper handling of kernel offsets.
If lseek() appears suspect, Configure activates
the use of a private lseek() function. Changed
the private nlist() function to nlist_private()
and
taught it to use the query_module() syscall in
place of the deprecated get_kernel_syms() one.
Added rudimentary AX.25 support for Pierfrancesco
Caci <ik5pvx@infogroup.it> who helped test it.
Updated the old get_kernel_syms() code to recognize
and skip module name entries.

Prompted by Marty Leisner <leisner@sdsp.mc.xerox.com>,
eased the requirement that service name lookup for
the -i option be accompanied by a protocol name. The
name is not needed if both TCP and UDP names yield the
same port number.

Added xusers.awk script from Dan Mercer <damercer@mmm.com>
to the distribution scripts/ subdirectory.

Changed Configure script to use LSOF_VERS for all
UNIX dialect version numbers and to pass LSOF_VERS
to the dialect Mksrc functions. Also added the

ability for a dialect stanza to declare a different
dialect Makefile source. Modified dialect Mksrc
files -- e.g., linux and sun -- accordingly.

Added support for BSD/OS 3.0 with help from Jim
Reid
<jim@mpn.cp.philips.com>. Terry Kennedy
<TERRY@spcvxa.spc.edu> kindly provided a test
system. During the port corrected a bug that
prevented proper handling of revoked files.

4.03 April 7, 1997
At the suggestion of Dan Mercer <damercer@mmm.com>,
made HP-UX building of lsof aware of differences
between the HP-UX bundled and unbundled C compilers.

Added the ability for the lsof builder to define the
default warning message issuance state. By default the
issuance of warning messages is disabled; defining
WARNINGSTATE in machine.h disables it. The Customize
script was updated to handle WARNINGSTATE. Dan Mercer
suggested this.

Eliminated compiler complaint about improperly cast
get_Nl_value() argument in ncache_load() in lib/rnch.c.

Corrected zeromem() argument error in SCO dproc.c.
Sped up parent directory cache lookup slightly.

Updated for PTX 4.4, including additional VxFS (EFS)
file system support.

4.04 April 17, 1997
At the suggestion
of Bela Lubkin <belal@sco.COM>
changed device cache handling to be more tolerant
of a device cache file whose [cm]times are older
than the ones on /dev or /devices. The change
required adding information to Solaris device cache
file clone lines, so the first time lsof 4.04 is
run under Solaris it will complain about a bad
cached clone device in a previous device cache
file, then regenerate it.

Added boot file path detection for SCO OSR 5 and
above, based on information supplied by Bela.

Fixed two bugs in DEC OSF/1 lsof -- an error in

reporting locks and a missing continue statement
in readdev() after a failure to open a directory.
Jan Ole Suhr <josuhr@informatik.tu-clausthal.de>
reported the second bug and supplied a fix.

Fixed XFS problems with IRIX 6.2 by abandoning the
idea that SGI will distribute XFS header files and
defining an lsof-private xfs_inode structure. John
Paul Morrison <John.Paul.Morrison@MultiActive.com>
helped develop
and test the 5.3 definition. John
R. Vanderpool <fish@daacdev1.gsfc.nasa.gov> helped
develop and test the 6.2 definition.

Remove obsolete comments about common/*.frag files.

Updated Linux lsof for Linux version 2.1.35.

4.04 April 18, 1997
Supplement Regenerated the 4.04 distribution to correct a non-
device-cache #define misplacement in the Solaris and
SunOS dlsof.h. Alexandre Oliva <oliva@dcc.unicamp.br>
reported the problem.

4.05 April 24, 1997
Corrected an error in 00DCACHE.

Made sure SCO /etc/ps/booted.systems is closed.

Based on an observation by Bela Lubkin <belal@sco.COM>
that the lsof child had needless file descriptors
open, closed all but the open pipes between the
lsof parent and child.

Decommissioned CDC EP/IX support; I no longer have a
test system.

Based on a suggestion from Patrick Connor
<connor@phreak.csd.sgi.com>, added -xansi to CFLAGS
for IRIX 5.3 and 6.[234].

Also at Patrick's suggestion changed Configure to
propagate
exact SunOS 4.1.x version to the main
and library Makefiles. This allowed the sunos413
and sunos413cc Configure abbreviations to be
shortened to sunos and sunoscc.

Updated obsolete argument uses (-H changed to -n)
in count_pf.perl* and watch_a_file.perl scripts.

Adjusted Solaris 2.6 lsof for Beta_Update with tips
from Casper Dik <casper@holland.Sun.COM>.

Fixed a Solaris 2.4 TCP address reporting bug.

4.06 April 30, 1997
Added a step to the Makefile clean rules that does
a make clean in the lib subdirectory; suggested by
Casper Dik <casper@holland.Sun.COM>. (Configure's
-clean argument already did this.)

Fixed an incorrect awk argument in the sunos*)
Configure stanza, reported by Alexandre Oliva
<oliva@dcc.unicamp.br>.

Added CD9660 (aka ISO) file system support to
FreeBSD, NetBSD, and OpenBSD with mods and help
from Kenneth Stailey <kstailey@disclosure.com>.
(BSDI already had CD9660 support.) While at it,
added file descriptor system
support to BSDI and
FreeBSD.

Added /kern file system support to OpenBSD. The
support wasn't extended to BSDI, FreeBSD, or NetBSD,
because it requires Kenneth Stailey's changes to
/sys/miscfs/kernfs/kernfs.h.

Updated IRIX 6.3 support after getting access to
a test system, provided by John Paul Morrison
<John.Paul.Morrison@MultiActive.com>. Improved
the handling of IRIX 5.1 and greater FIFOs.

4.07 May 12, 1997
Based on AIX problem reports from David Capshaw
<David.Capshaw@SEMATECH.Org>, changed the aix*
Configure script stanza to avoid -bnolibpath for
gcc (which the GNU loader doesn't grok) and AIX
below 4.1.4 (where -bnolibpath hasn't been tested
or is known to be unimplemented), and to refuse to
use gcc for compiling lsof in AIX versions below
4.1 (because of possible structure alignment
problems). Updated 00FAQ appropriately.

Added OpenBSD support for EXT2FS. This support

has yet to be tested.

Tested lsof under OpenBSD 2.1.

Activated
/kern file system support for NetBSD when
Configure senses that /sys/miscfs/kernfs/kernfs.h
defines the kern_target structure. This support
has not been tested under NetBSD, although it has
been tested under OpenBSD.

Made some simple changes to the BSDI machine.h,
suggested by Jeffrey C. Honig <jch@bsdi.com>.

Improved handling of alternate dialect Configure
abbreviations -- aix and aixgcc, hpux and hpuxgcc,
solaris and solariscc, and sunos and sunoscc.

4.08 May 23, 1997
Cleaned up dialect Makefile's, staring with a suggestion
from Christopher Schanzle <chris@cam.nist.gov>.

Improved Configure's -clean processing.

Corrected bugs in Solaris lock reporting.

Changed NetBSD Configure stanza to put -I/usr/include
before -I/sys.

4.09 June 1, 1997
Adjusted for latest FreeBSD 3.0 release. This
required adding a new kernel name cache module for
reading BSD-form hashed kernel name cache entries,
rnmh.c, to the lsof library, and adding a #define
to
each machine.h to select it.

Activated rnmh.c for BSDI 2.1, BSDI 3.0, NetBSD
1.2, and OpenBSD 2.1.

4.10 June 8, 1997
Adjusted for Linux 2.1.x (x > 35) kernels with
hashed task structure pointers. Marty Leisner
<leisner@sdsp.mc.xerox.com> and Jonathan Sergent
<sergent@io.com> tested the adjustment.

Replaced readdev() stat() calls with lstat() to
reduce device table and cache entries with the same

device number and inode values. Added code to
remove all remaining duplicates. This fixes a
Linux problem reported by Jonathan Sergent and
makes device node name output predictable.

Corrected a bug in UnixWare stream file handling
that prevented searching for the stream file by
its associated character device name.

Added Pyramid code to determine Reliant UNIX clone
major device number differently from that of DC/OSx.

4.11 June 12, 1997
Changed Configure to sense that the PTX inp_[fl]addr
members of the inpcb structure of <netinet/in_pcb.h>
have
a struct type and set HASINADDRSTR for use in
PTX dnode.c and dsock.c tests.

Changed PTX version 4.1.4 tests to use 4.1.3 instead.
Carson Wilson <carson@mcs.com> reported the need
to do this and tested the change.

Fixed a block device table indexing bug in lib/rdev.c,
reported by Carson Wilson. The same bug was squashed
in pyramid/ddev.c.

Added code to the Pyramid Reliant UNIX kread()
function to compensate for an address boundary
error in the kernel's /dev/kmem driver.

Verified that lsof compiles and works under AIX
4.2.1. Added an AIX test for the presence of NFS
header files, defined HAS_NFS and adjusted AIX
dialect sources accordingly.

Based on a suggestion from Gaylord Holder
<holder@phy.ucsf.EDU>, added DEC OSF/1 code to
auto-detect the booted file, whence kernel symbol
addresses are obtained.

4.12 June 24, 1997
Corrected a device number sign extension problem
in the reading and writing of device cache file.
The problem
was reported by Bela Lubkin <belal@sco.com>
and he suggested a fix.

Fixed an SCO stream device lookup problem. The
report and solution came from Bela Lubkin

Enhanced the Configure script to enable cross-
configuration of lsof, based on suggestions from
Marty Leisner <leisner@sdsp.mc.xerox.com>. A new
documentation file, 00XCONFIG, describes the process.

Made Pyramid OBJFS support conditional on the
presence of supporting header files. Corrected
the Pyramid MkKernOpts script so it generates the
necessary -D's for the Nile/Jolt architecture.
Richard Coley <rcoley@pyra.co.uk> helped.

Added another IRIX xfs_inode variant for 6.2, 32
bits, no XFS rollup patch.

Tested under UnixWare 2.1.2.

4.13 July 9, 1997
Taught Pyramid lsof to grok ttyfs vnodes with help
from Richard Coley <rcoley@pyra.co.uk>. Fixed some
minor bugs in Pyramid FIFO reporting. Eliminated
use of the Pyramid UCB compatibility library at
Richard's suggestion.

Eliminated
reporting of "strange" inode numbers
for SCO OSR 3.2v5.0.x HPPS files with help from
Bela Lubkin <belal@sco.com>

Modified port to service name lookup to use a small
number of getservbyport() calls before reading the
entire map with getservent(). Changed port reporting
to represent a zero as `*' to be consistent with
other prt number reporting tools like netstat.
Casper Dik <casper@holland.Sun.COM> suggested these
changes -- the getserv*() one to improve performance
for large NIS service name maps.

Changed all readdev() functions to make the absence
of block devices a warning instead of a fatal error
after Brian Redman <ber@ms.com> reported his IRIX
6.4 system had no block devices. (It really did
have block devices, but readdev()'s lstat() use
caused it to miss them in a directory symbolically
linked from /dev/dsk->/hw/disk.) Fixed Brian's
real problem by changing the IRIX readdev() to use

stat() on /dev nodes if a Configure test shows /hw
is
readable. Extended the potential to do the same
to all readdev() functions.

For consistency and convenience changed some
Configure abbreviations and dialect subdirectory
names: "decosf" abbreviation and "osf" dialect
subdirectory name to "du"; "netbsd" dialect
subdirectory name to "n+obsd"; "next3" abbreviation
and "next" dialect subdirectory name to "ns"; "sco"
abbreviation and dialect subdirectory name to "osr";
"sgi" dialect subdirectory name to "irix"; and
"unixware" abbreviation and dialect subdirectory
name to "uw".

Added #if/#endif clauses to the AIX rmdupdev()
function to avoid clone processing for AIX versions
less than 4.1.4. The problem was reported by Toralf
Foerster <toralf.foerster@io-warnemuende.de>, who
supplied corrective code.

Added support for new style NetBSD inode with i_ffs
and i_e2fs union members.

Improved Configure and 00FAQ information on Digital
UNIX configuration subdirectory with suggestions
from Brad Krebs
<brad@EECS.Berkeley.EDU>.

4.14 July 22, 1997
Reorganized the Solaris handling of the inode
structure header file, ufs_inode.h, to eliminate
VxFS structure definition conflicts for Solaris
2.4, based on information from Greg Earle
<earle@netbsd4me.jpl.nasa.gov>.

Cleaned up some typos and confusion in Configure's
help output, based on comments from Bela Lubkin
<belal@sco.com>

Added a 00DIALECTS file, containing UNIX dialect
version numbers, that can be used by Configure and
the man page.

4.15 August 15, 1997
Aligned `Configure -help` output better. Removed
Configure's 2.6 Beta test adjustments.

Added improved Solaris VxFS configuration and
handling, based on information from Greg Earle
<earle@netbsd4me.jpl.nasa.gov>.

Added socket state -- TCO or TPI -- for socket
files at the suggestion of Ian Fitchet
<I.D.Fitchet@ftel.co.uk>.

4.16 September 25, 1997
Added reporting of TCP/TPI queue lengths and window
sizes ala netstat to NAME column.
Added -T option
to select or de-select TCP/TPI info reporting.
(Window sizes are only reported for Solaris.)
Fixed anomalies along the way in SIZE/OFF processing
for some dialects.

Fixed service name argument processor to allow
minus signs as part of the name. Consequently this
disallows names with embedded minus signs from
being specified as the start of a range.

Added 00FAQ entries explaining why lsof won't find
a file being edited with vi, why window sizes aren't
reported for all dialects, and what the "no more
information" message means.

Forced Pyramid CC to be /usr/ccs/bin/cc to avoid
accidental use of the BSD variant in /usr/ucb/cc.

Added support for Linux glibc2, including a Configure
test; cross-Configure support (00XCONFIG); and much
unfortunate and risky sleight-of-hand in lsof Linux
dialect header and source files, forced upon lsof
by incompatibilities between Linux kernel and glibc2
header files.

Included in scripts/identd.perl5
a Perl 5 implementation
of an identd server, using lsof, provided by Kapil
Chowksey <kchowksey@hss.hns.com>.

Updated IRIX 6.4 xfs_inode guess.

4.17 October 14, 1997
Added -V option for verbose search result reporting.
Verbose reports are prepared for failure to locate

file names, command names, Internet addresses or
files, login names, NFS files, PIDs, PGIDs, and UIDs.

Augmented Linux NFS file test to cope with kernels
whose NFS code is in a loadable module. Need for
the test was pointed out by Jonathan Sergent
<sergent@csociety.ecn.purdue.edu>. The change
required that Linux have private dmnt.c source,

Completed a Linux 2.1.57 port on a system provided
by Jonathan Sergent.

4.18 October 25, 1997
Eliminated memory leaks in alloc_lfile(), lkup_port(),
and NEXTSTEP's process_text() function.

Added recognition of OpenBSD 2.2 in Configure,
supplied by Kenneth Stailey <kstailey@disclosure.com>.

Consolidated print_file() functions to use the
one
in lib/prtf.c. Made it configurable and changed
it to size print columns dynamically.

!!! WARNING !!!

WITH DYNAMICALLY SIZED PRINT COLUMNS LSOF 4.18
PRODUCES OUTPUT SIGNIFICANTLY DIFFERENT FROM THAT
OF PREVIOUS REVISIONS. LINES ARE GENERALLY SHORTER
AND THERE IS GENERALLY LESS BLANK SPACE BETWEEN
COLUMNS AND THE ITEMS IN THEM. THERE ARE NO LONGER
ANY SPACES BETWEEN DEVICE NUMBER ELEMENTS, ONLY
COMMAS.

!!! WARNING !!!

Added special types and print specification modifiers
for file size and offset to handle UNIX dialects
with 64 bit sizes and offsets. Paul Eggert
<eggert@twinsun.com> reported the need for this
addition.

With Paul Eggert's help picked lint from the lsof
library, the main level lsof sources, and the Sun
dialect sources.

Added documentation, including the file 00LSOF-L,
about the lsof-l LISTSERV.

Added support for Reliant UNIX on the RM600. Bob Passarella <rmpassar@pyramid.com> supplied the changes. Kevin Smith <kevin@pyramid.com> helped arrange test systems. While incorporating Bob's changes, modified lib/rnch.c to handle kernel ncache structs whose name is accessed via a char *, rather than in a char array.

Changed #include order of <sys/socketvar.h> for Solaris 2.x. W. Richard Stevens <rstevens@kohala.com> pointed out the need to do this.

4.19 October 30, 1997

Changed Pyramid Reliant RM600 proc scan to skip SSYS (p_flag) processes, since they don't seem to have a readable u_cdir vnode.

Enabled Pyramid Reliant UNIX kread() work-around for DC/OSx, too, since its read(/dev/kmem) kernel driver seems to share the page boundary bug this work-around circumvents.

Changed SzOffFtm_d and SzOffFtm_dv (new formats at 4.18 to print size and offset) from signed to unsigned. Setting them signed at 4.18 was an oversight.

Plugged a memory leak that caused the loss of 130 bytes per repeat-mode pass. Fixed it with a simple work-around in main(). Lionel Cons <Lionel.Cons@cern.ch> reported the leak.

4.20 November 11, 1997

Tested under BSDI 3.1.

Added support for Reliant UNIX Mesh IPC files with help from Billy Ho <bho@pyramid.com>.

Added support to Digital UNIX lsof that uses the libmsfs tag_to_path() function (when it exists) to look up AdvFS path names. The idea and sample code came from Dean Brock <brock@cs.unca.edu>. Converted Dean's code into more general purpose support for private name cache lookups via the HASPRIVNMCACHE #define in the dialect machine.h file and code

conditional on it in the printname() function.

Taught Digital UNIX lsof to recognize NFS3 file systems. Corrected Digital UNIX lsof DEVICE column alignment.

4.21 December 1, 1997

Squashed bug, introduced at revision 4.18, that resulted in double reporting of each selected PID when terse mode (-t) was specified.

Corrected minor bug, also introduced at 4.18, that might cause an extra print_proc() pass when one PID has been specified.

Added -R to lsof options in scripts/idrlogin.perl*. The option should have been there -- it was supposed to be mandatory for PGID reporting -- but a bug, corrected in revision 4.18, previously made -R unnecessary.

Enabled configuring for BSDI BSD/OS 4.0 per a suggestion from Jeff Honig <jch@bsdi.com>.

Enabled replacement of scoff_t with off64_t (scoff_t is used to type r_size and r_localsize in the rnode struct) for IRIX 5.3 systems that have the NFS kernel rollup patch (1477). This compensates for SGI's failure to distribute an updated <sys/fs/rnode.h> with their patch.

Validated under Linux 2.0.3[12], Linux 2.1.64, and NetBSD 1.3.

Added FreeBSD root directory reporting, courtesy of Dan Nelson <dnelson@emsphone.com>.

4.22 December 15, 1997

Made adjustments for Linux 2.1.7[02].

Improved NAME information for Linux UNIX domain sockets.

Added option +|-M to control the reporting of portmapper registration information in square brackets after the TCP or UDP port or service name.

Kenneth Stailey <kstailey@disclosure.com> suggested
the feature and provided sample code from OpenBSD.
Reporting is disabled by default in the distribution
and may be enabled with +M; if lsof is compiled
with HASPMAPENABLED (e.g., from machine.h), reporting
will be enabled by default and can be disabled with
-M.

Changed the -w option to +|-w to match the syntax
of the +|-M option and to eliminate any options
that flip meaning when a symbol is defined at
compile time. For both +|-M and +|-w, specifying
`-' when the default state is disabled or specifying
`+' when the default state is enabled causes no
problems.

!!!WARNING The -w option has changed in lsof 4.22. WARNING!!!

Made the +|- prefix legal for most options, but
didn't document it in the man page or help panel.
Most options that disable something -- e.g., -b,
-C, -n, -P -- now disable when the prefix is `-'
and enable when
it is `+'. Since the states these
options disable are enabled by default, I chose to
avoid documentation complexity and confusion by
not mentioning that they can be used with the `+'
prefix.

Condensed the help panel.

Made sure Digital UNIX Configure stanza puts normal
include path (e.g., /usr/include) before system
include paths.

Added IPX socket information reporting to Linux
with help from Jonathan Sergent <sergent@purdue.edu>.

4.23 January 16, 1998
Fixed conflict arising from the quondam replacement
of the Sun Solaris <netdb.h> with a BIND/BSD version.

With help from Jonathan Sergent <sergent@purdue.edu>
developed a /proc file system based Linux lsof.
It needs some Linux 2.1.x release to work -- I'm
not sure which, but I tested under 2.1.72, 2.1.76,
and 2.1.79. The Configure script selects special
sources for this lsof, so the full lsof distribution

now contains both /dev/kmem and /proc based sources
for Linux lsof. An optional kernel
mod, written
by Jonathan, enhances the /proc-based lsof ability
to recognize IPX socket files. Reorganized and
augmented the Linux sections in 00FAQ to explain
the two types of Linux lsof.

Defined DOSTAT_FUNCTION for dostat() in misc.c to
select the function, stat() or lstat(), it will use.
DOSTAT_FUNCTION is normally undefined, defaults to
lstat(), and is only defined for the /proc-based
Linux lsof in its dlsof.h.

Made conditional on the presence of IRIX 6.4 XFS
rollup patch #6 an XFS node change introduced in
revision 4.16. Identified the patch with help
from John R. Vanderpool <fish@daacdev1.gsfc.nasa.gov>.

Added NFS node compensation for NetBSD 1.3. The
code and suggestion for it was supplied by Jean-Luc
Richier <richier@imag.fr>.

Added diagnostic messages to the /dev/kmem-based
Linux Mksrc script to report errors during the
construction of the kernel name cache header file,
kncache.h. Added 00FAQ information on kncache.h.

Added
a new Linux test host, running 2.0.33 and
GlibC, provided by Steve Logue <stevel@mail.cdsnet.net>.

Ported to PTX 4.1.3 and 4.4.2. Adjusted lib/rnch.c
for 4.4.2 to allow customization f additional ncache
struct element names.

4.24 January 28, 1998
Changed /proc-based Linux lsof offset test to use "/"
instead of "/etc/passwd".

To assist Jim Mintha <jim@geog.ubc.ca> with the
packaging of lsof for Debian Linux, added a
DEBIAN_LINUX_LSOF #define to trigger the activation
of special system map file location code in the
/dev/kmem-based dproc.c.

Applied modification to dialects/bsdi/dlsof.h from
Ingimar Robertson <iar@skyrr.is>, enabling lsof to

compile for BSDI BSD/OS 2.0.

Corrected a documentation error in 00DCACHE, pointed
out by Thomas Anders <anders@hmi.de>. The error was
created when the -V option was added at lsof 4.17.

Made IRIX 5.3 through 6.3 lsof aware of IRIX SCSI
tape devices (e.g., /dev/tape). Dave Olson of SGI
and Randolph J.
Herber of FNAL provided valuable
advice, and Igor Schein <ischein@air-boston.com>
helped test.

Added a machine.h symbol (NEVER_HASDCACHE) that
prevents Customize from offering to change HASDCACHE.
The symbol may appear anywhere in machine.h --
e.g., in a comment. Included the symbol in a
comment of the HASDCACHE section of the /proc-based
Linux lsof machine.h, and accompanied it with
warnings against #define'ing HASDCACHE. Did the
same thing for WARNDEVACCESS (NEVER_WARNDEVACCESS
is the suppressant.)

4.25 February 7, 1998
Corrected an IRIX mis-cast of file offset (position).
Igor Schein <ischein@air-boston.com> reported the
problem. This was offered as a patch to 4.24.
Picked some lint Igor pointed out.

At Igor's suggestion added an optional decimal
digit size argument to the -o option. This argument
specifies how many file offset decimal digits can
follow "0t" before lsof switches to a "0x..." form.
The argument size specification doesn't
count the
two characters of the "0t". A size of 0 means
unlimited. The default is OFFDECDIG (8), preserving
compatibility with existing lsof output; it can be
changed by the lsof builder. When size is specified
with -o it does not force offset display; -o without
a size still must be used to do that.

Added an IRIX 6.2, 32 bit system, XFS node patch,
courtesy of Ulrich Bernhard <rzubu@rzu.unizh.ch>.

For my own convenience enabled Configure to use
/usr/local/bin/gcc for NEXTSTEP. This allows
circumvention of a gcc 2.8.0 ranlib problem on

my test 3.1 `040 cube.

Added flags recommended by the RISC/os and Ultrix
compilers for the updated (and longer) main.c.

Updated FreeBSD cd9660_node.h Configure test.

4.26 February 17, 1998
Added shared process group processing for IRIX 5.3,
and IRIX 6.1 and above, based on investigation of
a bug report from Igor Schein <ischein@air-boston.com>.
Igor helped test this addition.

Improved handling of file
system name arguments.
It's now done in a manner similar to fuser. The
-f argument forces path names to be considered as
simple files, rather than as file system names.
The +f flag forces them to be considered as file
system names. Normally path arguments are considered
file system names when they match a mounted-on
directory in the system's mount table, or when they
match a mounted file system's block device. Igor
Schein helped test this change.

Igor also suggests that the proper compilation of
the IRIX 6.4 proc structure after patch 2536 has
been installed may need -DPIOMEMOPS. So lsof's
MkKernOpts script was updated to propagate that
option from CCOPTS in /var/sysgen/system/irix.sm,
even though patch 2536 doesn't add -DPIOMEMOPS to
it. Added a 00FAQ item on this patch.

Added a fatal warning message about names forced
to be file system names (with +f) that have no
match in the mount table.

Improved the -V message for files and file systems
for
which no open files were found. Added reporting
of /proc file and file system search failures.

Did some code reorganization to combine the multiple
ck_file_arg() functions into one. Moved the new
function from the library to the top level and put
it in arg.c; moved the usage function from arg.c
to a new top-level source file, usage.c, to balance
top-level source file size. The new usage.c depends

on version.h; arg.c no longer does.

Added flag recommended by the DU compiler for the updated (and longer) main.c.

4.27 March 6, 1998

At the request of Igor Schein <ischein@air-boston.com> added a conditional repeat mode option, using the `+' prefix to the `r' option. +r operates as does -r with the exception that it exits the first time no open files have been listed during a cycle. The exit code will be zero when any open files have been listed; one, if none were ever listed.

Ported lsof to HP-UX 11.0 with the help of Richard Allen. This port hasn't been tested on a 64 bit kernel; I'm sure it won't work there without more mods. It may not work on PA 2 architectures; I've only tested it under PA 1 and a separate, busy tester reported PA 2 problems that I've been unable to investigate.

In anticipation of getting access to a 64 bit HP-UX kernel and the pending start of the Solaris 2.7 Beta test (It will have 64 bit kernel addressing.), started adding support for 64 bit kernel pointers. This includes: ubiquitous use of the KA_T cast for kernel pointers; a format to print them, KA_T_FMT_X; a function to print them, print_kptr(); and modifications to most kernel-related functions -- e.g., process_file(), process_node(), process_socket(), readvfs() -- to process kernel addresses as KA_T types.

Fixed minor bug in handling path name arguments that end with a `/'.

Removed support for RISC/os; its test system is no longer available.

Made modifications to insure that lsof output doesn't contain non-printable characters. All such characters are now printed in the printf form "\x%02x". Several new common functions were installed in misc.c to support "safe" printing. This second major modification in 4.27 to common

and dialect code could have introduced bugs not
yet detected.

4.28 March 10, 1998
Refined unprintable format to use \b, \f, \r, \n,
\t, and ^* (for CTRL) forms. Corrected omission
of safestrprt() use for field output command name.
These changes were offered as patches to 4.27.

Made space an unprintable character (\x20) in the
COMMAND column; printable elsewhere, including the
NAME column, field output, and error messages.

Made sure FD column is parseable as a single entity
-- i.e., has no embedded space. Thus, if the access
mode is unknown but there is a known lock mode, (a
very rare case) the access mode will be printed as
`-'.

Picked lint with gcc 2.8.0 under Solaris 2.6.

With the help of Dave Olson
of SGI identified a
proc struct element that should have been added to
<sys/proc.h> by IRIX 6.4 patch 2536. Added a
work-around for it to the lsof Configure script.
Igor Schein <ischein@air-boston.com> identified
that the patch caused a proc structure length
complaint from lsof. Removed an obsolete 00FAQ
item on the patch, installed at lsof 4.26, explaining
that no solution was yet available.

Added a 00FAQ item on how BIND installs its own
header files, including <netdb.h>, which may cause
the rpcent struct definition to vanish. Solaris
has an automatic lsof work-around, but that hasn't
been (and probably can't be) propagated to all
dialects supported by lsof. The 00FAQ item recommends
re-installation of the vendor header files that
BIND has replaced. (Others include <rpcent.h>,
<sys/bitypes.h>, and <sys/ctypes.h>.)

Made AIX AFS fixes.

4.29 March 26, 1998
Corrected bug in Internet address matching. The
matching formerly stopped if the foreign

address
matched, thus failing to check the local address
for a match. That led to a possible false "Internet
address not located" warning (i.e., in response to
-V) about the local address, when both foreign and
local addresses were specified with -i. This
correction was offered as a patch to 4.28.

Changed readmnt() usage in an attempt to defer
mount readlink() and stat() delays until they are
necessary.

Corrected two bugs in the Digital UNIX readdev()
function. Made the correction available as a patch
to 4.28 and regenerated the 4.28 DU binaries.

Added a missing argument to a print-kptr() call in
the HP-UX dsock.c. The missing argument causes a
fatal gcc error. The problem was reported by Eyal
Shaynis <eyal.shaynis@telrad.co.il>. The fix was
offered as a 4.28 patch.

Adjusted for Digital UNIX 4.0D; the spec_node
structure is now defined in <sys/specdev.h>. Kris
Chandrasekhar <Kris.Chandrasekhar@digital.com>
identified the need
for the adjustment.

Incorporated a bug fix from Brian McAllister
<mcallister@mit.edu> to the DU readmnt() function.
This fix was offered as a patch to 4.28.

Added "safe" printing to a SunOS clone device error
message.

Corrected bug in tabling of Linux /proc-based lock
info.

Corrected bug in handling of SunOS TLI streams.
Dan Farmer <zen@trouble.org> reported the problem.

Added a Solaris 2.6 work-around to keep the BIND
<sys/bitypes.h> from colliding with the Solaris
<sys/int_types.h>.

Strengthened the Configure test for /proc-based
Linux lsof, based on a report from Marty Leisner
<leisner@sdsp.mc.xerox.com>.

Tested on OpenBSD 2.3.

Made AIX changes that allow use with 3.2.5. The changes were suggested and tested by Brett Hogden <hogden@rge.com>.

Added Solaris 2.6 AFS support. Disabled reporting of some node numbers for Solaris 2.5 and above open AFS files. The node number computation algorithms used for SunOS 4.1.x and Solaris less than 2.5 no longer always work under Solaris 2.5 and above.

4.30 April 9, 1998

Corrected a pid structure member naming error for UnixWare < 2.1.2. The problem was reported by Richard van Meurs <vanmeurs.anva@atriserv.nl>. He supplied the correction. This was offered as a patch to 4.29.

Had a report from Igor Schein <ischein@air-boston.com> that IRIX 6.4 patch 2839 is another SGI kernel patch, along with 2536, that changes the size of the proc structure in the kernel without changing the proc structure in <sys/proc.h>. Upon further investigation found that the effect of these patches on the proc structure is not consistent. Therefore, dropped the Configure patch test for IRIX 6.4 and made the code in irix/dproc.c slightly more tolerant of proc structure size differences for IRIX 6.4. Igor help test the change.

Corrected Solaris >= 2.5 AFS inode number generation. Craig Everhart <Craig_Everhart@transarc.com> helped find the cause of the problem. This was offered as a patch to 4.29.

Refined the Linux /dev/kmem-based glibc evasion for the timeval structure to make it work with glibc version 2.0.7. This required defining a new global symbol, TIMEVAL_LSOF, default timeval, that the /dev/kmem-based Linux lsof can set to its private glibc timeval name, distinct from the kernel timeval name.

Added support for Alpha to the /dev/kmem-based

Linux lsof. Alexandre Oliva <oliva@dcc.unicamp.br>
provided a test system. Added an item to 00FAQ
about lsof, the Alpha processor, and Linux.

Added a 00FAQ item about lsof year 2000 compliance.
Basically it says lsof is probably compliant,
because its only date or time computations are done
with time_t values, but I haven't done any specific
Y2K validation. I don't have plans to do any.

Added support for UnixWare 7. Chris Daniels
<chrisd@dlpco.com> provided a test system and Don
Draper <dond@sco.COM> provided technical information.
Added BFS
and SFS file system support to lsof for
UW 2.1.[12] and 7.

Updated Solaris VxFS support for VxFS 3.2.1. Greg
Earle <earle@netbsd4me.jpl.nasa.gov> reported the
need for the update. Greg and Roger Klorese
<rogerk@veritas.com> provided technical information.
Scott McClung <mcclung@primenet.com> tested.

Changed IRIX XFS patch detection in anticipation of
learning there are multiple XFS patches for IRIX 6.4
that require different versions of the lsof-invented
xfs_inode structure.

4.31 April 21, 1998
Added a VxFS #if/#endif wrap to a section of the
HP-UX dnode.c that wasn't properly protected. The
problem was reported by Peter Klosky <PKlosky@bdm.com>.
This was offered as a patch to 4.30.

Added support for Solaris 2.7 (first Beta release).
Mike Sullivan <Mike.Sullivan@Eng.Sun.COM> provided
technical advice and helped test. Charles Stephens
<cfs@jurassic.eng.Sun.COM> also helped test.

Fixed bug in /proc-based Linux that caused it to
access
/proc/mounts excessively. Marty Leisner
<leisner@sdsp.mc.xerox.com> provided a syscall
trace that identified the bug. The fix was offered
as a patch to 4.30.

Adjusted the IRIX 6.4 private structure definition
for the XFS node to accommodate patch 2970. Igor

Schein <ischein@air-boston.com> identified the
patch and the required adjustment.

4.32 May 11, 1998
Corrected Solaris 2.7 code for reporting PCFS
(floppy disk) node numbers. Casper Dik
<casper@holland.sun.com> supplied the fix. The
fix was offered as a patch to 4.31.

Corrected a bug in conditional repeat mode handling
pointed out by Igor Schein <ischein@air-boston.com>.
This was offered as a patch to 4.31.

Improved reporting of AIX open(/dev/memory device)
errors.

Corrected a Solaris < 2.5 KA_T declaration error,
pointed out by Robert Kiessling <robert@easynet.de>.
Changed KA_T from a #define to a typedef for all
dialects to prevent future problems of this kind.

Changed the sample
Perl 5 script big_brother.perl5
to report a four digit year from localtime().

Added support for AIX 4.3[.1]. Bill Pemberton
<wfp5p@tigger.itc.virginia.edu> provided a test
system. Andrew Kephart <akephart@austin.ibm.com>
and Tom Weaver <tvweaver@austin.ibm.com> provided
technical assistance. Niklas Edmundsson
<nikke@ing.umu.se> did 4.3.1 testing.

Added -qmaxmem option to CFLAGs for an AIX compilation
with an xlc version 4.x compiler.

Adjusted Linux socket handling for changes in the
AX25 members of the sock struct. Richard Green
<rtg@tir.com> pointed out the problem. Tested
/dev/kmem-based lsof under Linux 2.0.34.

4.33 May 22, 1998
Added generic IPv6 support to common lsof sources
and specific IPv6 support to AIX sources. Andrew
Kephart <akephart@austin.ibm.com> supplied the
additions and helped with testing. Bill Pemberton
<wfp5p@tigger.itc.virginia.edu> provided a test
system. The modification affected sources for
every dialect,

whether it supports IPv6 or not, by
changing the interfaces to the common Internet
address function ent_inaddr().

Added support for the NetBSD UVM virtual memory
system. Paul Kranenburg <pk@cs.few.eur.nl> supplied
technical details.

Bracketed HP-UX 11 use of <sys/spinlock.h> with
#if/#endif _KERNEL.

Corrected printing of PCB address in DEVICE column
for IRIX.

4.34 June 26, 1998
Updated 00FAQ to discuss TCP and UDP ports private
to the AIX kernel and 00README to describe how ACLs
can be used to give lsof permission to read the
kernel memory devices. Add information to 00FAQ
and 00README about other OpenBSD architectures
where lsof is reported to compile and run. Added
section to 00FAQ discussing how an incorrect loader
path environment variable value can prevent lsof
from loading correctly.

Improved Solaris namefs and doorfs support so that
it is now possible to search for an open VDOOR file
by the path name of its fattached file system
object.
Igor Schein <igor@txc.com> requested the
ability to do such a search. Even with the change,
lsof can't always identify path names for open
VDOOR files.

Also at Igor's request, improved reporting of
information on open Solaris VCHR files that share
a common vnode, and Solaris UNIX domain socket
files.

Corrected print_kptr() argument error in PTX dnode.c,
reported by Mark Price <mprice@sequent.com>.
Compensated for ncache element naming differences,
introduced at PTX 4.4.2; Kurtis D. Rader
<krader@sequent.com> reported the problem.

Changed output column title from INODE to NODE to
better reflect the column's contents of node IDs
for more than just inodes.

Improved Configuration and processing for Solaris
AFS. Corrected AIX AFS 3.4 afs_rwlock_t simulation.

Corrected a cast problem with two AIX knlist()
calls, thus quieting an AIX 4.2.1 compiler argument
type warning. Jon Champlin <champlin@us.ibm.com>
reported the problem.

Added
support to most dialect versions (exception:
/proc-based Linux) to warn when the identity of
the kernel where lsof was compiled doesn't match
the running identity. The warning can be suppressed
with -w. Note: determining AIX state requires
calling oslevel, a potentially slow operation.
Jon Champlin <champlin@us.ibm.com> suggested this
addition.

!!!! WARNING !!!! !!!! WARNING !!!! !!!! WARNING !!!!

Those using the lsof cross-configuration capability
(see 00XCONFIG), should be aware that the kernel
identity test feature introduces two new basic
cross configuration environment variables, LSOF_ARCH
and LSOF_VSTR.

!!!! WARNING !!!! !!!! WARNING !!!! !!!! WARNING !!!!

Identified a situation where a Solaris UNIX domain
socket name is known and can be searched for by
name; added the necessary code.

4.35 July 17, 1998
Made the kernel identity check an option with the
HASKERNIDCK #define in machine.h. Enabled altering
of HASKERNIDCK
with the Customize script. Added
a clause to the help output that indicates the
build-time HASKERNIDCK status.

Added more information to the NAME column for
Solaris UNIX domain sockets. Made them searchable
by their clone device path name. Igor Schein
<igor@txc.com> requested this.

Completed the HP-UX 11 port with support for its
optional 64 bit kernel. Rich Rauenzahn

<rrauenza@cup.hp.com> provided a test system.
Corrected errors with HP-UX 11 lock reporting and
private kernel structure and type definitions.
Added support for HP-UX NFS3 files.

Limited mount table warnings -- e.g., when -b is
used -- to one set per mount point.

Fixed some mount table scanning and usage bugs,
including one in Solaris, reported by Kjetil Torgrim
Homme <kjetilho@ifi.uio.no>.

4.36 August 4, 1998
Made corrections and additions to IPv6 support and
to AF_ROUTE socket handling, supplied by Jean-Luc
Richier <Jean-Luc.Richier@imag.fr>. Jean-Luc's
additions
provide IPv6 support for the Inria IPv6
implementations on FreeBSD and NetBSD.

Fixed two Solaris 2.5, 2.5.1, 2.6 and 2.7 TCP and
UDP host name or IP address reporting bugs, reported
by James Mathiesen <James-Mathiesen@deshaw.com>.
This fix was offered as a patch to 4.35.

Updated the Customize script to cause ENTER to use
all defaults. Amir J. Katz <amir@ndsoft.com>
suggested this and helped test the changes.

Updated Solaris ICMP and IP stream handling, based
on a report from Igor Schein <igor@txc.com>.

Fixed a bug in the Digital UNIX mount table handling,
reported by Bob Ward <bward@thehartford.com>.
While working on the bug, found and updated some
obsolete AdvFS code. This fix was offered as a
patch to 4.35.

4.37 September 15, 1998
Deactivated SGI IRIX support and archived revision
4.36 sources and binaries in pub/tools/unix/lsof/OLD.

Improved performance of FD searching. This was
offered as a patch to 4.36.

Amir J. Katz <amir@ndsoft.com>
pointed out that
ranlib isn't needed for AIX or Solaris. Made

appropriate Configure script changes.

Fixed a file offset reporting bug for HP-UX VCHR and VBLK device nodes located on a VxFS root. Doug Siebert <douglas-siebert@iowa.edu> reported the bug. The fix was offered as a patch to 4.36.

Resolved an HP-UX root device name reporting bug, partly caused by an out-dated local copy of the <sys/mount.h> mount structure, by generating a local header file with the structure that can be compiled without needing _KERNEL defined. Doug Siebert also reported this bug.

Changed some dialect source code -- Digital UNIX, Solaris, SunOS, and UnixWare -- to make more consistent with ps the user ID lsof reports in the USER column. Added a 00FAQ entry about it. Igor Schein <igor@txc.com> reported the Solaris and SunOS lsof inconsistencies with what ps(1) reports.

Ported lsof to Pyramid ReliantUNIX 5.44.

Added brackets as comments to case, do, done,
else,
endif, esac, if, and while statements in Configure to assist in navigating its clauses.

Added more Linux 2.0.x glibc work-arounds.

Added support for UnixWare 7.0.1.

Ralph Forsythe <ralph@contact-paging.com> provided a new FreeBSD test system.

4.38 November 25, 1998

Added support for recent FreeBSD 3.0 distributions. A 3.0 test system was provided by David O'Brien <obrien@NUXI.com>. This was offered as a patch to 4.37.

Updated the scripts/idrlogin.perl* files to look for sshd processes in addition to rlogind and telnetd ones.

Added support for DU 5.0 Beta. Berkley Shands <berkley@cs.wustl.edu> provided a test system.

Added support for OpenBSD 2.4 with changes supplied
by Kenneth Stailey <kstailey@disclosure.com>.

Changed the Solaris 2.7 tests and documentation to
Solaris 7.

Made some changes to the header files for NEXTSTEP
3.3 and added support for OPENSTEP 4.x with help
from Michael A. Hovan III <mhovan@BLaCKSMITH.com>
and
Carl Lindberg <Carl_Lindberg@BLaCKSMITH.com>.
The combined dialect subdirectory is named n+os.
One of Carl's changes propagates RC_CFLAGS to the
library Makefile. Timothy J. Luoma <luomat@peak.org>
helped test under NEXTSTEP 3.3 and OPENSTEP 4.2.

Made UW 7.x version sensitive to the presence of
ptf7038. Added peer PCB address to Unix domain
socket Name column, even when a path name has been
located. Information for these changes was supplied
by Francis Le Bourse <flebourse@intelcom.fr>. Lee
Penn <lee@dlpco.com> provided a test system.

Tested lsof under OSR 5.0.5 on a test system also
provided by Lee Penn.

Made path name argument processing more tolerant
of errors per a suggestion from Julian Gordon
<julian@cadence.com>.

Acquired a new UnixWare 2.x test system, generously
provided by Computer Classroom, Inc. -- Matthew
Thurmaier <matt@compclass.com>, Ken Laing
<ken@compclass.com>, and Andrew Merril
<andrew@compclass.com>. Updated Configure
to accept
a UnixWare version of 2.1.3.

Updated kmem-based lsof for Linux 2.0.36.

Updated NetBSD sources for a change in a UVM virtual
mapping header file.

Corrected a cache allocation bug in Sun format
kernel name cache handling. The bug only shows up
when the kernel name cache is inaccessible.

4.39 December 29, 1998

Corrected problems with large device number handling
for 64 bit Solaris 7. The problems were reported
by Steve Bellenot <bellenot@math.fsu.edu>. Steve
helped test the fixes. The fixes were offered as
two patches to lsof 4.38.

Improved FreeBSD Configure operations for header
files that must be obtained from the kernel source
tree, based on a suggestion from David O'Brien
<obrien@NUXI.com>.

For Bela Lubkin <filbo@deepthought.armory.com> made
optional with +f[cfn] the display of file structure
address, shared use count, and node structure
address. /proc-based Linux doesn't implement this
feature, because it doesn't read
kernel structures
from kernel memory. Modified the PTX -X option to
take advantage of the new file structure display
option. Added shared.perl5 to the scripts/
subdirectory to provide an example of how +f[fn]
might be used to track shared file descriptors and
files.

Added more /dev/kmem-based Linux glibc evasions,
provided by Jeff Johnson <jbj@redhat.com> and Maciej
Lesniewski <nimir@kis.p.lodz.pl>. Jeff helped test
them on various Linux architectures.

Tested on AIX 4.3.2; no changes were required.
Doug Crabill <dgc@purdue.edu> provided a test
system.

Fixed -c option to detect missing command name when
following option begins with `+'.

4.40 January 25, 1999
Added support for using the CDS compiler for Reliant
Unix 5.44 and above. Made Reliant Unix MIPC support
optional, dependent on the presence of <sys/mipc.h>.

Based on a report from Michael Schmitz <MSchmitz@lbl.gov>
that /dev/kmem-based lsof misbehaves on a Linux
2.0.x m68k kernel
without module support, made the
absence of query_module() or get_kernel_syms()
Linux kernel support a fatal error. Updated relevant
sections of 00FAQ to reflect the change.

Added the ability to force the Linux Configure
stanza to use the /proc or /dev/kmem source base
via a LINUX_BASE environment variable specification.
This is a cross-configuration assist.

Added "+D <dir>" and "+d <dir>" options for directory
searching. +D searches the entire tree, starting
at <dir>, including <dir>, its contents, and its
subdirectory branches; +d searches only <dir> and
its contents, but not its subdirectory branches.
Improved lsof's searching of the specified name
list to compensate for anticipated long lists from
+d and +D.

Made an egrep in the Solaris Configure stanza usable
by the standard and XPG4 egrep's. Kenneth Stailey
<kstailey@disclosure.com> pointed out the improvement.

Fixed bugs in /dev/kmem-based Linux and UnixWare
Unix domain socket name
searching.

Changed a Linux Alpha #include to be conditional
on the presence of its named header file, so that
lsof will compile on Red Hat 5.1 and 5.2 (Linux
kernel 2.0.35) where the header file is absent.
The problem was reported by Alexandre Oliva
<oliva@dcc.unicamp.br>.

Fixed an AIX 4.3+ bug in procinfo struct space
allocation, reported by Jeff Stewart <jws@purdue.edu>.
This was offered as a patch to 4.39.

Added an lstatsafely() function to offer the same
isolation for lstat() calls that statsafely() offers
for stat() calls. This made DOSTAT_FUNCTION no
longer necessary, so deleted it.

With help from Laurent P. Montaron <lpm@sequent.com>
ported lsof to PTX 4.4.4. Laurent did a monumental
job of identifying TCP/IP changes by their TCP
version, rather than by their PTX (With mix 'n
match PTX and TCP/IP versions, the PTX version
often has no bearing on the TCP/IP version.), and
changed the Configure script and pre-processor
#if/#else/#endif

blocks to match. He also updated
Unix domain socket handling for PTX TCP/IP versions
4.5 and above.

Updated CLIENT handle acquisition of fill_portmap()
in print.c to use the more modern RPC function
clnt_create() in place of clnttcp_create() where
possible. PTX 4.4.4 requires clnt_create().

4.41 February 27, 1999
Added FreeBSD 3.1 and and 4.0 support with help
from Sheldon Hearn <axl@iafrica.com>, David O'Brien
<obrien@NUXI.com>, and John Polstra <jdp@polstra.com>.

Corrected bungled AIX 4.3+ patch that went into
lsof 4.40.

Reorganized the Configure script to improve Makefile
construction. A specific impetus for this was to
allow FreeBSD system-wide make flags to be propagated
to the lsof Makefiles, but other goals were to make
sure that the DEBUG= make entry can over-ride
standard CFLAGS values, and to better manage the
identification of compilers and their versions.
Two compiler-related values may now be supplied in
environment variables:
1) the compiler path in
LSOF_CC; and 2) the compiler version in LSOF_CCV.
00XCONFIG documents them.

Added support for Pyramid Reliant Unix bsdsfs,
msockfs, and sockfs file systems.

Added an optional LSOF_CINFO string to Configure,
producing a CINFO string in selected Makefiles,
producing a #define LSOF_CINFO in selected version.h
header files. The purpose of this is to allow
Configure the option to propagate information to
the lsof -v output. It is now used for Linux to
identify the code base, and for HP-UX 10.30 and
11.0 and Solaris 7 to identify the kernel bit size.

Added system information to NEXTSTEP and OPENSTEP
-v output, from the second line of hostinfo's
output.

Fixed a login name buffer overflow problem in the
processing of -u option values. This was offered

as a patch to 4.40. !!!THIS IS A SERIOUS STACK
OVERFLOW BUG; A LINUX EXPLOIT EXISTS FOR IT THAT
OPENS A BASH SHELL WITH LSOF'S AUTHORITY -- E.G,
SETGID(KMEM) POWER!!!

Improved
the Solaris mount table filter so the
volume manager's fake mount point, "/vol", is
ignored and doesn't supplant "/" in NAME column
path assemblies. Igor Schein <igor@txc.com> reported
this bug and provided important help in finding
it. This was offered as a patch to 4.40.

Changed the Linux /dev/kmem-based lock ownership
test to answer a problem reported by Tom Christiansen
<tchrist@jhereg.perl.com>. This was offered as a
patch to 4.40.

Installed an HP-UX 11 patch, suggested by Kevin
Vajk <kvajk@cup.hp.com>, that adjusts a private
lsof kernel header file, derived via Q4, to correspond
to an HP-UX patch bundle.

Made NetBSD 1.3I sockproto structure adjustment.

4.42 March 30, 1999
Fixed a typo in the HP-UX dfile.c that caused +fF
and +fN output controls to swap effect.

Enabled for OpenBSD 2.5 per notice from Kenneth
Stailey <kstailey@kstailey.tzo.com>

Made more VM accommodations for FreeBSD 4.0.

Improved file system search
reporting to include
path name components when they're available, instead
of mindlessly reporting the file system name in
the NAME column. Guy Dallaire <gdallair@geocities.com>
brought the need for this change to my attention.

Updated Solaris 2.6 VxFS for Veritas Oracle Database
Edition 2.0, VxFS version 3.3, and VxVm version
2.5.4, based on a report from Chris Kordish
<chris.kordish@East.Sun.COM>. Chris kindly provided
a test system.

Improved HP-UX ipc_s patch detection in Configure,

response in .../dialects/hpux/hpux11/ipc_s.h, and
documentation in 00FAQ, Kevin Vajk <kvajk@cup.hp.com>
helped test.

Added to Customize the option to suppress HASKERNIDCK
selection for specified dialects. Suppressed it
for /proc-based Linux lsof, and removed its test
and code from there. Tin Le <tin@netimages.com>
alerted me to the need for this update.

Ported to official Digital UNIX 5.0 release.

Changed DU lsof to use the knlist(3) function when
no kernel
file has been specified with -k. This
change was suggested by Erich Wimmer
<Erich.Wimmer@digital.com>.

Updated Configure for latest NetBSD (1.3I?) with
UVM support the default.

4.43 May 11, 1999
Corrected a typo in the Solaris gcc discussion in
00FAQ. Made changes to the Solaris 2.5[.1] private
tcp_s structure. Both changes were done in response
to reports from Igor Schein <igor@txc.com>, who
tested the Solaris 2.5 change.

Made more IPv6 adjustments to lsof for Tru64 UNIX
(Digital UNIX) 5.0, based on information obtained
from Compaq by Berkley Shands <berkley@cs.wustl.edu>.

Corrected HP-UX error message about HP-UX 11 q4 usage.
Amir Katz <amir@ndsoft.com> reported the correction.

Fixed a GlibC 2.1 conflict in /proc-based Linux lsof.

Fixed a man page typo reported by Vlad Harchev
<hvv@hippo.ru>.

Changed some Solaris 2.7 references to Solaris 7
in Configure and 00XPORTING.

Added a Solaris example to the echo statements that
are the
install rule in the SunOS/Solaris Makefile.

Added a field to the file structure output --

FILE-FLAG (file structure open flags, f_flag[s],
and process file flags, typically u_pofile)) --
enabled with +f[gG]. Its field output character
is 'G'.

Figured out another piece of the HP-UX 11 patched
ipc_s structure puzzle with the help of Keith Kalet
<KEITH_KALET@HP-USA-om41.om.hp.com>.

Fixed a PTX real vnode to real inode interpretation
bug.

Added link count to lsof output. Eric Dumazet
<dumazet@risgw.ris.fr> requested and helped test
it. The new +L option enables and filters it.
Its field output character is `k'.

Updated Configure script to recognize NetBSD 1.4.

Updated AFSConfig to handle default answers to
questions.

Incorporated patch from Jonathan Sergent <sergent@io.com>
that enables /proc-based Linux lsof to run on both
32 and 64 bit kernels.

Updated Configure script with a patch from David
O'Brien <obrien@NUXI.com> that recognizes
FreeBSD 3.2.

4.44 June 24, 1999
Corrected use of nlink member of hsnode for SunOS
4.1.x High Sierra File System files. John Dzubera
<zube@tlaloc.stat.colostate.edu> reported the
problem and helped test the fix. Also fixed a
SunOS segmentation fault bug. These fixes were
offered as a patch to 4.43.

Improved handling of /proc-based Linux UNIX PCB
address.

Fixed a NEXTSTEP and OPENSTEP bug that made repeat
option (-r) processing malfunction. This fix was
offered as a patch to 4.43.

Fixed Configure so it doesn't use -O in the Cflags
for the bundled HP-UX C compiler. Jim Ankenbrandt
<jankenbrandt@penton.com> reported the problem.

Corrected output ordering of parent PID and process group ID when both -R and -g are specified.

Enhanced the pdev.c and pdvn.c library modules for wider use. These dialect versions use the new library modules: DEC OSF/1, Digital UNIX, and Tru64 UNIX; Pyramid DC/OSx and Reliant UNIX; SCO OSR and UnixWare; and
Sequent PTX.

Added basic clone device support to /dev/kmem-based HP-UX lsof for HP-UX 10.30 and higher.

Added raw socket support to /proc-based Linux lsof.

Changed NODE-ADDR column title to NODE-ID in anticipation of using more general identification information in the column.

Ported to UnixWare 7.1, using a test system kindly provided by Matt Thurmaier <matt@compclass.com> and Don Draper <dond@sco.com>.

Updated for NetBSD 1.4C VM changes, and a new current and root working directory structure.

Made minor adjustment for latest Tru64 UNIX 5.0 Beta release.

4.45 July 30, 1999
Fixed quoting problem in DEC OSF/1, Digital Unix, and Tru64 UNIX Makefile's install rule. The problem was reported by Berkley Shands <berkley@cs.wustl.edu>. Fixed bug in Tru64 UNIX 4 lsof that caused FDs to be skipped. These fixes were offered in a patch to 4.44.

Fixed a repeat-mode /proc-based Linux lsof bug, reported by Sami Farin <sfarin@ratol.fi>. This was
offered as a patch to 4.44.

Picked lint, some reported by Sami Farin.

Corrected a 00DCACHE documentation error in a sample shell script. The problem was reported by Chad R. Larson <chad@larsons.org>. Changed commented-out

entries in machine.h files so they require more
thought and work when the comments are removed,
based on a remark by Chad.

Compensated for the practice of Solaris 7 and above
to record the dev= value in /etc/mnttab in 32 bit
mode, even on 64 bit systems. This was offered as
a patch to 4.44.

Added a C library test for /proc-based Linux lsof,
so that the #include files can be adjusted for a
non-GlibC environment. The need for this was
reported by Andrew Hill <andrewh@tirin.openworld.co.uk>.
This was offered as a patch to 4.44.

Added support for Auspex LFS 1.8.1 and 1.9.2 to
SunOS 4.1.4 lsof. The support was requested by
Quentin Fennessy <quentin@dvorak.amd.com>, who
provided information and did testing.

Enabled IPv6 support
code for NetBSD and OpenBSD,
conditional on Configure script tests. Wolfgang
Rupprecht <wolfgang@wsrcc.com> supplied the NetBSD
code and tested it. The OpenBSD code I constructed
has been compiled but not tested.

Updated the identd Perl 5 script, based on a report
from Wendy Lin <af5@taiyang.cc.purdue.edu> that
the space in its response line in front of the user
name violates RFC 1413.

Added IPv6 support to /proc-based Linux lsof.
Jonathan Sergent <sergent@ETLA.NET> and Andrew
Thomas Sydelko <sydelko@ecn.purdue.edu> kindly
provided a test system.

Updated man page description of AIX multiplexed
files to indicate that they might be /dev/ptc or
/dev/pts, depending on the AIX version. The
correction was suggested by Onno van der Linden
<onno@simplex.nl>.

Sylvain Robitaille <syl@alcor.concordia.ca> reports
lsof passes his Y2K tests.

4.46 October 23, 1999
Corrected /proc-based Linux lsof to detect that an

IPv6 address is a mapped IPv4
address. The problem
was reported and analyzed by Arkadiusz Miskiewicz
<misiek@misiek.eu.org>, who also tested the fix.

Added a libc5 library /dev/kmem-based Linux lsof
circumvention, supplied by Jason Lingohr
<lingman@lucid.net.au>.

Corrected a bug in -t (terse) AIX output, reported
by Wendy Lin <af5@taiyang.cc.purdue.edu>. I
introduced the bug at revision 4.43 when adding
FILE_FLAG reporting. This was offered as a patch
to 4.45.

Added a work-around for a problem in the OpenBSD
2.3 <sys/pipe.h> header file. Volker Borchert
<bt@teknon.de> provided and tested it.

Improved description of cross-building lsof for a
64 bit Solaris 7 system on a 32 bit system with
suggestions from Phillip Edwards
<Philip.Edwards@sn.wpafb.af.mil>.

Fixed a gawk POSIX-mode pattern error in the Linux
/dev/kmem-based Mksrc script, based on a tip from
Ambrose C. Li <acli@mingpaoxpress.com>.

Fixed a bug in the Tru64 UNIX IPv6 handling, courtesy
of a report from
Casper Dik <casper@holland.sun.com>.

Enabled support for OpenBSD 2.6.

Enabled support for BSDI BSD/OS 4.1, based on a
report from Jeffrey C Honig <jch@bsdi.com> that
only a Configure script change is necessary.

Enabled Configure script to use gcc for building
lsof for a 64 bit Solaris 7 and 8 kernels, if the
gcc version is 2.95 or above.

Improved -i option handling for systems with IPv6
support so that it will search for a host name in
both IPv4 and IPv6 families, when that is possible.
As a companion modification, changed -V processing
to report a single error when a multiple host name
match is requested. Casper Dik <casper@holland.Sun.COM>

helped test.

Fixed a DEC OSF/1, Digital UNIX, Tru64 UNIX repeat mode bug, reported by Mayer Ilovitz <mayer@cooper.edu>. Mayer helped test the fix. The fix was offered as a patch to 4.45.

Changed Solaris socket file recognition scheme, so it is (nearly) the same through Solaris 8, where the previous
clone device scheme no longer works.

With significant assistance from Casper Dik, added support for Solaris 8 Beta and Beta refresh. The IPv6 support in Solaris 8 is still in some flux, so there are temporary compensations for the differences between Beta IPv6 support and Beta refresh IPv6 support. Casper and I hope those differences disappear by FCS.

Improved the delivery of information on Solaris 2.5.1, 2.6, 7, and 8 door files.

Fixed a repeat mode bug that surfaces when /etc/passwd changes between cycles. The bug report and diagnostic help were supplied by Igor Schein <igor@txc.com>. The fix was offered as a patch to 4.45.

Added support for INRIA IPv6 to NetBSD. Jean-Luc Richier <Jean-Luc.Richier@imag.fr> provided patches and a test system on which to verify them.

Added support for AIX 4.3.3. Jeff W. Stewart <jws@anaconda.cc.purdue.edu> provided a test system.

Made adjustments for FreeBSD 4.0-current.

Improved reporting of information
for AIX sockets that
lack protocol control blocks.

4.47 November 29, 1999

Based on a query from Jean-Pierre Radley <jpr@jpr.com>, changed the lsof top-level Makefile to propagate CFGF to the library Makefile. (DEBUG was already being propagated.) Added osrgcc and scogcc Configure abbreviations (to use gcc) for Jean-Pierre.

In response to a query from Igor Schein <igor@txc.com>,
improved the Configure script test for Solaris 7
and 8 that decides if the compiler can produce 64
bit executables.

Made an ugly hack, based on making a private rnode
structure definition from q4 output, to compensate
for HP-UX 10.20 and lower recent NFS3 patches. HP
didn't supply an updated <nfs/rnode.h> with the
patches. The problem was reported by Will Partain
<partain@mekb2.sps.mot.com>. Elias Halldor Agustsson
<elias@hi.is> helped identify the patches as
PHNE_18173, PHNE_19426, PHNE_19937, and PHNE_20091,
and provided a test system.

Switched BSDI test system
from 2.1 and 3.1 to 4.0.1,
courtesy of Terry Kennedy <terry@tmk.com>.

Added some more dev_t hacks for Alpha FreeBSD 4.0.

Added support for IPv6 on BSD 4.x. The support hasn't
yet been tested, just compiled.

Added support for the mnt file system (mntfs or
/etc/mnttab) on Solaris 8. Tested on Solaris 8
BETA-Refresh.

Made selection of optional fields (e.g., PPID with
-FR) in a field output specification select the
optional field, too, so that the option selector
for the field (e.g., -R) isn't also required. This
change was made in response to an inquiry from John
DuBois <spcecdt@armory.com>. This may require some
revision to scripts that parse all field output;
two scripts in the lsof distribution's scripts/
subdirectory had to be updated.

Corrected handling of Linux IPv4 addresses mapped
in IPv6 addresses.

Tested under OpenBSD 2.6.

4.48 January 14, 2000
Modified -i argument processing of colon-separated
IPv6 addresses to recognize
an IPv4 address mapped
in an IPv6 address and handle it as an IPv4 address.

This was offered as a patch to 4.47.

Added a defined symbol (NOWARNBLKDEV) to control
(inhibit) the issuance of a warning when no block
devices are found. This was done anticipating its
need in FreeBSD 4.x, but that dialect version no
longer has any block devices, so HASBLKDEV was
disabled for it instead. NOWARNBLKDEV was left in
place for possible use in the future.

Enabled KAME IPv6 Configure support for FreeBSD
when <netinet6/in6.h> is found.

Disabled use of gcc to compile lsof for 64 bit
HP-UX 11.

Updated Configure to recognized FreeBSD 3.4.

Based on suggestions from Bernt Christandl
<beb@MPA-Garching.MPG.DE> improved AFS configuration
for AIX and Solaris, and updated AIX AFS 3.5 support.
Johannes Tax <tax@bluedog.oit.unc.edu>, Hung T.
Pham <hung_pham@unc.edu>, and Curt Freeland
<curt@grumpy.cse.nd.edu> provided test systems.

Updated lsof's private rnode
definition for AIX
4.3.3, since IBM still doesn't ship the
<oncplus/nfs/rnode.h> header file and the rnode
structure definition in <nfs/rnode.h> doesn't match
what the kernel uses. This was offered as a patch
to 4.47.

Weakened the test in the Linux /proc-based lsof of
the field count of data lines in /proc/net/{tcp,udp}.
It appears that recent 2.3.x Linux kernels have
added untitled fields to these files. The bug
report came from Gabor Liptak <gaborliptak@usa.net>.

Adjusted for a FreeBSD 4.0 change in the definition
of [_]KERNEL. David O'Brien <obrien@NUXI.com> reported
the problem and provided a test system.

Removed the HASPPID bracket from Fppid (the -R
option state variable) so that the field select
table will compile even when HASPPID is not defined.
This problem was introduced at revision 4.47 with
code that causes some field output characters to

set option states. The problem was reported by
David Bacon <bacon@birch.eecs.lehigh.edu>.

4.49 April
3, 2000
Made clearer in man page that "Lxx" FDs are AIX
loader table references. Also updated the 00FAQ
discussion of the Stale Segment ID bug to include
AIX 4.3.x.

Modified support for NetBSD 1.4Q to include the
<sys/buf.h> header file to cope with an MFS change.

Added support for OpenBSD UVM virtual memory.

Added support for AIX systems with > 2GB of memory.
Chris Sylvain <csylvain@itg.ummc.umaryland.edu>
reported the problem and provided the solution.
Chris also supplied some minor code cleanup. This
was offered as a patch to 4.48.

Based on new information from Igor Schein <igor@txc.com>
made additional compensation in Configure script
for 64 bit Solaris 7 and 8 gcc.

Added some 00FAQ info on the effect ordering of
the +fg and -FG options has on output format.

Improved NetBSD IPv6 configuration, based on a
suggestion from Thomas Klausner
<wiz@danbala.ifoer.tuwien.ac.at>. Added code to
convert IPv4-mapped-in-IPv6 addresses
to IPv4
addresses.

Updated the information in 00FAQ and the HP-UX 11
binary directory README files on the HP-UX 11 ipis_s
patch with new information supplied by Eric McWhorter
<emcwhorter@xsis.xerox.com>.

Added documentation on changes to HASFSTYPE and
HASNCACHE, and the new HASPRIVPRIPP.

Adjusted Configure for FreeBSD 5.0. Made additional,
necessary changes to Configure and the BSDI sources
to eliminate load errors.

Added KAME IPv6 support to FreeBSD at the request

of Ollivier Robert <roberto@eurocontrol.fr>, who
provided a test system.

Corrected the script that generates the CHECKSUMS
files for binaries to correctly name the detached
PGP certificate. The documentation bug was reported
by Michael Hennecke <hennecke@rz.uni-karlsruhe.de>.

4.50 June 29, 2000
Added a NetBSD alpha test host, courtesy of Ray
Phillips <r.phillips@mailbox.uq.edu.au>. An lsof
4.49 binary, built on Ray's 1.4.1 system was made
available prior to the 3.50 release.

Upgraded
the system map file tests in /dev/kmem-based
Linux lsof, making the use of DEBIAN_LINUX_LSOF
unnecessary. Tested the changes on a system made
available by Vincent Kujala <kujala@geog.ubc.ca>
and Jim Mintha <jim@ic.uva.nl>.

Forced AIX to use the large-file-enabled versions
of lstat (lstat64) and stat (stat64) if <sys/stat.h>
contains stat64. This should allow lsof to stat()
AIX files > 2GB even when the builder has not
defined the "large file enabled programming
environment." Configure tests <sys/stat.h> and
puts -DHASSTAT64 in the Makefile's CFLAGS to make
this happen. Fernando A.B. Whitaker
<whitaker@cenapad.unicamp.br> reported the problem.
This was offered as a patch to 4.48.

Enabled Configure script to handle OpenBSD 2.7.
Angelos D. Keromytis <angelos@dsl.cis.upenn.edu>
reported the availability of OpenBSD 2.7 and supplied
the Configure script patch.

Improved handling of DOOR and fattach()'d files in
Solaris.

Changed
message about missing kernel symbol file
from "not yet determined" to "none found".

Updated FreeBSD, NetBSD, NEXTSTEP, OpenBSD, and
OPENSTEP support to report "no PCB" and the values
of the SO_CANTSENDMORE and SO_CANTRCVMORE state
flags when a socket structure has no inpcb pointer.

This modification was made to AIX lsof at revision
4.46. Added an entry to 00FAQ about sockets that
have no inpcb pointer.

Upgraded support for FreeBSD 5.0-CURRENT. Ben
Smithurst <ben@scientia.demon.co.uk> supplied
patches and did testing. David O'Brien <obrien@NUXI.com>
supplied a test system. The update included dropping
the Fctty part of file descriptor file system
support, conditional on a Configure script test.
I propagated those changes to BSDI, NetBSD, and
OpenBSD in anticipation of their having the
modification in the future. David also arranged
with Michael Haro <mharo@area51.fremont.ca.us> for
a FreeBSD 3.4 test system.

In response to an lsof 3.72
bug report from Jim Mewes
<jim@corp.phone.com>, added more kernel address
filtering to the lsof function, kread(), that reads
Solaris kernel data.

In response to a report from Marc Duponcheel
<marc@offline.be>, added tests to the /proc-based
Linux lsof to ignore file systems of types "autofs"
and "pipfs".

Based on a report and information supplied by Casper
Dik <casper@holland.Sun.COM>, updated the ncache_load()
function in lib/rnch.c with new code that deals
with a post Solaris 8 change in kernel name cache
(DNLC) handling. Casper tested the update, which
should be invisible to Solaris versions without
the new DNLC code.

Added support for Solaris VxFS QIO files, based on
a report from Kieran Broadfoot <kieran.broadfoot@gs.com>.
Kieran help test the support.

Added support for PTX 4.4.6 and 4.5[.1] with help
from the usual cast of good people at Sequent.

Added support for 64 bit file sizes and offsets on
BSDI, FreeBSD, NetBSD, and OpenBSD,
based on a
report from Dan Nelson <dnelson@emsphone.com>.
Dan supplied a patch and did FreeBSD testing.

Added Configure script recognition of NetBSD 1.5,
based on a report from Andrew Brown <atatat@atatdot.net>.
Thomas Klausner <wiz@danbala.ifoer.tuwien.ac.at> updated
the NetBSD port package to use a pre-release of this
addition.

At the last minute saw a notice via deja.com's
UseNet search service that FreeBSD 3.5 had been
released and lsof didn't grok it. Added recognition
of 3.5 to lsof's Configure script, but didn't have
the opportunity to test lsof on 3.5.

4.51 August 21, 2000
Added Configure script support for the upcoming
Solaris 9 release based on suggestions from Casper
Dik <Casper.Dik@holland.sun.com>.

Changed sample Perl scripts to assume that
/usr/local/bin/perl is Perl 5 and Perl 4 may be
found in /usr/local/bin/perl4.

Updated Configure to recognize FreeBSD 4.1 and made
a FreeBSD pre-release distribution available.

Bela Lubkin
<belal@sco.COM> tested lsof on the
upcoming SCO OSR 5.0.6 release and reports that
lsof appears to work properly.

Updated the AIX compiler test in Configure to
recognize its version 5.

Updated AIX 4.3.3 support with automatic recognition
of the proper rnode structure, based on machine
bit width. Also added code to detect when processing
the -X option that lsof has been compiled with the
"other" AIX 4.3.3 user structure and to apply
compensations. When a compensation method works,
it's applied during subsequent -X processing; when
none works, further -X processing is disabled.

Added Tru64 UNIX 5.1 support. Updated Tru64 UNIX
library text file support to recognize new kernel
support for AdvFS library files. Berkley Shands
<berkley@cs.wustl.edu> and Klaus Saggerer USG
[saggerer@zk3.dec.com> helped put me in contact
with Chang Song <song@zk3.dec.com>, the developer
of 5.1's new kernel name cache and he helped me

develop new code in lsof to
access it.

Corrected reporting of PTX fattach()'d address.

Changed Configure and dlsof.h for NetBSD and OpenBSD
to use /usr/include/uvm header files when available.
Andrew Brown <atatat@atatdot.net>, Thomas Klausner
<wiz@danbala.ifoer.tuwien.ac.at>, and Wolfgang
Rupprecht <wolfgang@wsrcc.com> pointed out the need
to do this for NetBSD. Andrew provided access to
a NetBSD 1.5 system for verifying the changes.

Installed snprintf() support, including a private
version in the lsof library for those UNIX dialects
without the function. Changed all sources to use
it instead of sprintf() and strcpy().

Fixed a memory leak in the readvfs() functions of
BSDI, DEC/OSF1, Digital UNIX, FreeBSD, NetBSD,
OpenBSD, and Tru64 UNIX.

Tested on Linux 2.4.

Modified the Pyramid MkKernOpts script to compensate
for `uname -s` configuration alternatives. Robert
Dahlem <Robert.Dahlem@ffm2.siemens.de> supplied
the modification.

Obtained access to an FCS Solaris 8
64 bit system
and built lsof on it, using Sun Workshop C 5.0 and
gcc 2.96 20000814 (experimental). Both compilers
produce a working lsof.

4.52 November 8, 2000
Completed work on an HP-UX 11.11 port that uses a
pstat(2) interface provided by HP. To distinguish
it from its predecessors for HP-UX, this lsof
version is called PSTAT-based and the predecessor
versions are now called /dev/kmem-based. I am
indebted to the far-sightedness and support of
these good people at HP for making PSTAT-based lsof
possible: Carl Davidson, Louis Huemiller, Rich
Rauenzahn, and Sailu Yallapragada. The PSTAT-based
sources are in lsof_4.52/dialects/hpux/pstat, the
/dev/kmem-based ones in lsof_4.52/dialects/hpux/kmem.

Ported to IBM Monterey for Merced|Itanium, aka AIX
5L. It configures via the Configure script's "aix"
abbreviation and has been tested on AIX 5L Beta 3.
Jay Beck, Steve Dibbell, Loc Le, Nasser Momtaheni,
and Malcom Zung of IBM provided generous support.
Since
AIX 5L is still in Beta testing, this port
can't be considered complete.

Added Configure support for OpenBSD 2.8. David
Mazieres <dm@cs.nyu.edu> provided a test system.

Based on a report from Marc Christensen
<marc@mecworks.com> added sockfs to the mount scan
exemption list for /proc-based Linux lsof.

Added large file, CDFS, and DOSFS for UnixWare 7.x.
Added UnixWare device memory mapping support. All
UnixWare changes were supplied by Eric Dumazet
<edumazet@cosmosbay.com> Eric also supplied some
miscellaneous bug fixes.

Deferred name cache loading until printname() needs
to use the name cache.

Terminated Pyramid, SunOS 4.1.x, and Ultrix support,
because test systems are no longer available.
Final Pyramid and Ultrix source code distributions
for lsof revision 4.51 may be found on lsof.itap.purdue.edu
in pub/tools/unix/lsof/OLD/src. The no longer
supported SunOS 4.1.x source code is still distributed
with the Solaris source code.

Added
code to set Solaris node address to real vnode
address, when applicable.

John Speno <speno@lopan.isc-net.upenn.edu> provided
information that enabled me to update the Tru64
AdvFS (MSFS) node definition for AdvFS version 5.

Added Tru64 5.x CFS support with help from Kris
Chandrasekhar <Kris.Chandrasekhar@compaq.com>,
Diane Lebel <lebel@zk3.dec.com>, and John Speno.
The support only provides information about cached
file attributes.

Installed a Configure patch for HP-UX 11 supplied by
Kenneth Stailey <kstailey@disclosure.com> that adds
another command to q4 input.

Tested on FreeBSD 4.2.

Will Day <willday@rom.oit.gatech.edu> and Frank
Winkler <frank.winkler@germany.sun.com> graciously
supplied Solaris 8 binaries.

Added Solaris 9 text file support, supplied by
Casper Dik <Casper.Dik@holland.sun.com>.

4.53 December 6, 2000
Added the AIX 5L j2_lock.h to the distribution with
a Configure script step to use it when it's missing
from
/usr/include/j2.

Removed SunOS 4.1.x support.

Removed Linux 2.0.x /dev/kmem support.

Fixed VBLK and VCHR special device file reporting
to handle /dev information more accurately.

Added a Apple Darwin / Mac OS X 1.2 port, provided
by Allan Nathanson <ajn@apple.com>. Allan also
arranged for a test system so I can maintain this
port. An additional test system was provided by
Dale Talcott.

Dropped claims of support for all UnixWare versions
except 7.1.0, since that is the only version on
which I can test lsof. Even though lsof 4.53 is
deprecated for UnixWare 2.1.3, installed a patch
for it with testing done by A. Channing Clark
<clark.channing@heb.com>.

Dropped claims of support for all SCO OpenServer
versions except 5.0.5, since that is the only
version on which I can test lsof.

4.54 January 19, 2001
Added compensation for a change that made the
FreeBSD mount structure invisible. I can only test
back to 3.2 and the compensation works

there, so
it's been #ifdef'd for 3.2 and above. David O'Brien
<obrien@FreeBSD.org> provided the necessary clue.

Based on a report from Valdis Kletnieks
<Valdis.Kletnieks@vt.edu>, changed all IPv6 support
to report a TYPE of IPv6 for sockets with IPv4
addresses mapped in IPv6 addresses. The previous
lsof behavior was to report their TYPE as IPv4.

Restored the Linux GlibC test to Configure, removed
at revision 4.53, based on a report from John Dzubera
<zube@cs.colostate.edu>, that RedHat Linux 6.0 still
needs the test.

Made setting of link count for Solaris more selective.

Limited Readlink() recursion to MAXSYMLINKS. The bug
was reported by Jan Dvorak <johnydog@go.cz>.

Dropped the *claim* that lsof runs on Solaris 2.5.1.
It may well do so, but I no longer have access to a
test system.

Fixed an #endif comment typo, reported by Igor Schein.

Fixed a typo in a cast for a Tru64 UNIX 5.1 function
and updated Configure for Tru64 UNIX 5.0 and 5.1
with
information from Jesse Perry <jesse.perry@compaq.com>.

Corrected non-fatal typos in the AdvFS support in
dnode.c for Tru64 UNIX.

Added msdos file system support for NetBSD and OpenBSD.
Andrew Brown <atatat@atatdot.net> requested and helped
test it.

4.55 February 15, 2001
Based on a report from Bernd Eckenfels <ecki@lina.inka.de>
added support in lsof for files in /proc/<PID>/maps
that have been deleted.

Changed PGRP output title to PGID, conforming to
the most common current abbreviation for Process
Group ID (PGID). While some systems continue to
use *pgrp for internal kernel variable names, most
systems that support the display of PGID via ps(1)

now title it PGID. The lsof -g and -Fg options
operations are unchanged in function; only titles
and descriptions have changed. Also changed internal
variable names from *PGRP and *pgrp to *PGID and
*pgid where possible.

Dropped the *claim* that lsof runs on HP-UX 9.x.
It may well do so,
but I no longer have access to
a test system.

In response to a suggestion from Jeff Howie
<jeff.howie@federated.ca> added support for command
name selection by regular expression. A new form
of the -c option value is use to identify and
specify a regular expression.

Restore the *claim* that lsof works on UnixWare
7.0, since I re-acquired a test system.

4.56 May 3, 2001
Corrected some problems Amir Katz <Amir_Katz@bmc.com>
found with Insure++, one in lib/dvch.c, the rest
in Solaris sources. Amir's report also helped me
find an error in an snpf() call that caused (the
unsupported) Solaris 2.5.1 lsof to crash. Wally
Winzer, Jr. <wally.winzer@ChampUSA.COM> helped test.

Added support for UnixWare 7.1.1 and above in-kernel
UNIX sockets. John Hughes <john@Calva.COM> kindly
provided code and access to a test system. John
also provided a test system and advice for adding
UnixWare 7.1.1 NonStop Cluster and CFS support.
More help with that effort
came from Kurt Gollhardt
(SCO), Barbara Howe (SCO), Bela Lubkin (SCO), and
Dewan Rashid <Dewan.Rashid@ir.com>.

Archived a set of compilation hints (patches) from
Bill Melvin <Bill.Melvin@esc.edu> that make it
possible to compile the old, unsupported lsof 3.08
sources on UnixWare 1.x without NFS or CDFS support.

Installed support supplied by Allan Nathanson
<ajn@apple.com> for the Darwin "Gold Master" release,
Mac OS X 10.0 (aka Darwin 1.3 in its public source
version). Added Allan's CVS repository suggestions
to the script that gets additional header files

from an open source repository.

Tested an HP-UX 11.11 kernel patch from Sailu
Yallapragada that enables reporting of TCP/IP
information for telnetd processes that use the
telnet multiplexor. I don't yet know the kernel
patch ID.

Made the Solaris inclusion of <inet/mi.h> conditional
on the Solaris version. (It's apparently not needed
at 2.6 and above.) Bill Watson <bill.watson@uk.sun.com>
brought
this to my attention.

Added alternate Linux 2.4.x lock extent test, supplied
by Jim Mintha <jim@ic.uva.nl>.

Rearranged the lines and pre-processor tests in
regex.h, lib/regex.c, and lib/snpf.c so that unifdef
can be used to eliminate copyright and GPL statements
when the files aren't being used for a particular
dialect. (USE_LIB_* definitions in a dialect's
machine.h header file determine if one or more of
those three files are to be used.)

Added preliminary support for Solaris 8 with VxFS
3.4. This support will be refined as I get
information from Veritas about how they will
distribute the kernel header files lsof needs.
Those header files were omitted from the standard
VxFS 3.4 distribution. Technical assistance and
testing were provided by Calle Dybedahl <cdy@algonet.se>,
Gary Millen <gary.millen@veritas.com>, Rainer Orth
<ro@TechFak.Uni-Bielefeld.DE>, Peter C. Vernam
<pvernam@draper.com>, and Donna Yobs
<Donna.Yobs@veritas.com>

Tested
on FreeBSD 4.3-STABLE.

Dropped the *claim* that lsof works on UNIX dialects
where I no longer have test systems: BSDI 2.1,
3.[01] and 4.0; DEC OSF/1, Digital UNIX and True
64 UNIX 2.0 and 3.2; FreeBSD 2.1.[67], 2.2[.x],
3.[012345] and 4.[01]; HP-UX 10.20; NetBSD 1.[234];
SCO OpenServer 5.0.5; and SCO UnixWare 7.0

Tested on Solaris 9 BETA, s81_36.

4.57 July 19, 2001

Help (-h) and version (-v) output now have URLs
for the newly created and timeliest lsof FAQ
(00FAQ in the lsof distribution) at:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/FAQ

and the man page for the current lsof distribution
at:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/lsof_man

Based on a report from Steve Laubscher
<slaubs@woodward.com>, modified dlsof.h for PTX
4.6[.1] to avoid a temporary dnlc_t definition
needed at PTX 4.5.1.

Corrected test for old Linux kernels in Configure.
Henri Karrenbeld <ishtar@cal044202.student.utwente.nl>
brought
the error to my attention. Limited Linux
claims to 2.1.72 and above in the documentation.

Improved HP-UX 11 Configure stanza and stream socket
handling.

Constructed a work-around for the HP-UX 11 optional
OnlineJFS package. The work-around sadly requires
lsof to have a private version of the vx_inode
structure, since the OnlineJFS package doesn't
update <sys/fs/vx_inode.h>. Troyan Krastev
<Troyan.Krastev@ricoh-usa.com> brought the bug to
my attention and Michael Bracewell
<michael@ra.TSS.PeachNet.EDU> provided a test system
where I developed the work-around.

Added locale support to lsof's isprint() test,
based on a suggestion from Dan Mercer <damercer@mmm.com>.
Lsof will use setlocale(), when that function and
its supporting <locale.h> header file are available.

Added OpenBSD 2.9 support.

Based on a report from Aaron Rhodes <arhodes@psionic.com>
and with testing help from Aaron, made the lsof
4.56 revision compile and work on OpenBSD 2.6.
While

that OpenBSD version is no longer supported,
Aaron's report exposed a Configure script bug
affecting OpenBSD versions lsof does support.

Updated for FreeBSD 5.0-CURRENT. Szilveszter Adam
<sziszi@petra.hos.u-szeged.hu> help test. The lsof
FreeBSD ports packager, David O'Brien <obrien@FreeBSD.org>,
assisted.

Tested on AIX 5.1. Loc Le and Nasser Momtaheni of
IBM provided test systems.

4.58 September 13, 2001
Added options to safestrprt() and safestrprtn() to
surround the string with "" and to suppress the
printing of an ending '\n'. Use of these functions
in device cache file error message reporting answers
a suggestion for better error reporting from John
Jackson <jrj@purdue.edu>.

Fixed a Solaris 2.6 and above problem related to
searching for "large" (O_LARGEFILE) files by name;
lsof was using the wrong version of [l]stat(2).
The bug was reported by Daniel Trinkle
<trinkle@cs.purdue.edu>.

Added AIX 4.1.4 and above XTI socket support.

Added
OSR Xenix Shared Data and Semaphore file type
support with modifications supplied by Bela Lubkin.

Updated OPENSTEP support with modifications from Carl
E. Lindberg <lindberg@clindberg.org>. The changes
enable the correct reporting of executable and
library open files ("txt" type).

Limited claims of OpenServer support to the versions
where I currently test, 5.0.4 and 5.0.6. (Lsof
probably works on 5.0.5.)

Enabled processing of -C option for PSTAT-based HP-UX
lsof.

Enabled and tested on FreeBSD 4.4.

Corrected a file system test example in 00QUICKSTART,
based on a report from Jun Biao WANG <wangjunb@cn.ibm.com>.

Made available for re-distribution a user-contributed
port of lsof 4.51 to Reliant UNIX 5.45. Thomas
Mauterer <Thomas.Mauterer@philosys.de> contributed
the port.

4.59 October 20, 2001
With the closing of the Sequent Synergy Links Lab
by IBM, terminated lsof support for PTX. The last
tested PTX lsof revision, 4.58,
is available on
lsof.itap.purdue.edu in .../lsof/OLD/src.

Adjusted for FreeBSD 5.0-CURRENT NFS header file
changes, based on a report from Jos Backus
<josb@cncdsl.com>.

Corrected a bug in the way Linux lsof identifies
the owner of a process. Lionel Cons <lionel.cons@cern.ch>
reported the problem and tested the fix. Added
code to avoid stat(2) calls on regular Linux files
whenever possible. Lionel reported the need to do
this (AFS files) and tested the new code.

Added new output field for raw device number in
hex. The field is identified with 'r'. This field
is NOT selected when -F or -F0 is specified so that
its appearance won't disturb existing scripts that
process field output.

Added support for OpenUNIX 8. A test system was
provided by Larry Rosenman <ler@lerctr.org>.
Matthew Thurmaier <matt@compclass.com> and many
people from Caldera provided technical assistance.

Added an additional UVM test to the NetBSD Configure
stanza. Andrew
Brown <atatat@atatdot.net> supplied
the test; it recognizes NetBSD 1.5Y UVM changes to
the vnode structure recently committed by Chuck
Silvers.

Applied Configure and get-xnu-headers.sh script
changes suppled by Allan Nathanson <ajn@apple.com>
for Darwin 1.4.

Added for Bela Lubkin <belal@mammoth.ca.caldera.com>
OSR-specific environment variables to supply values

to the Configure script. The variables are described in 00XCONFIG.

Added an IP version selector to the -i option parameters.

4.60 November 9, 2001

Added special handling to and corrected bugs in the matching of IPv4 in IPv6 addresses to -i6:<...> selectors.

Made 00FAQ corrections and updates, based on discussions with Igor Schein <igor@txc.com>.

Modified Configure script to detect a 64 bit capable gcc compiler and permit it to be used to build 64 bit (PA-RISC 2) lsof for HP-UX 11.00. Tested with HP's gcc package, which Rich Rauenzahn of HP kindly installed on a test system at HP. Stefan Marquardt <stefan.marquardt@hagebau.de> helped test.

Made lsof's method of killing its child process more robust, based on a suggestion from Bela Lubkin <belal@caldera.com>.

Modified all dialect Makefile segments to accept select -v #define's from the environment -- a builder's comment, host, logname, system information and user name. This was done for Bela Lubkin, so he can "tune" the -v output when he packages lsof in the upcoming Caldera OSR 5.0.7 release.

Changed Perl scripts in scripts/ to put the lsof path consistently in $LSOF. Also added a fix from Bela Lubkin to scripts/big_brother.perl5 that allows it to tolerate SCO OSR "ago" clauses in open UDP file information. Strengthened emphasis in scripts/00README that the scripts are examples that shouldn't be expected to run on all UNIX dialects without modification.

At Bela Lubkin's suggestion changed the device cache file format examples in 00DCACHE and 00FAQ to avoid "%U%". That's an SCCS escape sequence.

Added support for OpenBSD 3.0.

Added +DAportable to CFLAGS for 32 bit HP-UX 11.
Amir Katz <Amir_Katz@bmc.com> suggested the addition.

4.61 January 22, 2002
Updated field output example Perl scripts in the
scripts/ subdirectory to discover the lsof path,
starting at .. and proceeding through the PATH
environment variable's directories.

Added minor OSR Configure script fixes, provided
by Bela Lubkin <belal@caldera.com>.

In response to a report from Joshua Wright
<Joshua.Wright@jwu.edu> modified NetBSD and OpenBSD
Configure stanzas and sources so that lsof can be
built when there is no system source tree (e.g.,
/usr/src/sys).

In response to a report from Peter Valchev
<pvalchev@openbsd.org> improved the UVM test in
the OpenBSD Configure stanza.

Updated Configure script to recognize FreeBSD 4.5.
Updated for FreeBSD 5.0 procfs and pseudofs changes.

Updated HP-UX stanza to see if the compiler named
in
the LSOF_CC environment variable is the bundled
compiler. If it is, "-O" is omitted from the
compiler flags.

Updated Digital UNIX 4.x and Tru64 UNIX error message
related to kernel name list failures. Added an FAQ
section about how a kloadsrv daemon failure can cause
knlist(3) to fail. The condition was reported by
Douglas B. Jones <douglas@gpc.peachnet.edu>

Based on a report from Mark W. Eichin <eichin@thok.org>
made Linux lsof capable of handling and reporting
file sizes greater than 32 bits.

Tested on Solaris 9 BETA-Refresh.

Corrected a bug in the matching of IPv4 addresses,
mapped in IPv6 addresses, to an IPv4 parameter to
an -i option.

Ported to 64 bit Power AIX 5.1 kernel with advice
from David Clissold <cliss@austin.ibm.com> and Marc
Stephenson <marc@austin.ibm.com>, and on a test
system provided by Loc Le <lple@us.ibm.com>.

4.62 March 7, 2002
Updated 00README to reflect the usefulness of gcc
for building AIX lsof. Documented a
report from
Brian L. Gentry <BGentry@nationsrent.com> of success
on AIX 4.3.3. I documented my success on 32 bit
Power AIX 5.1 and my lack of success on ia64 AIX
5.1 and 64 bit Power AIX 5.1.

Improved UnixWare >=7.1.1 reporting of UNIX socket
NAME field information for NonStop Cluster systems
with a patch provided by John Hughes <john@Calva.COM>.
Offered John's improvement as a patch to lsof 4.61.

Corrected bugs in handling of open files on block
devices by OSR lsof. The bugs were reported by
Bela Lubkin <filbo@deepthought.armory.com>.

Fixed bug in writing >32 bit device numbers for
block devices to the device cache file.

Added support for reporting block special nodes
not in /dev (or /devices). That required "like
device special" be changed to "like block special"
and "like character special". (00FAQ was updated.)

Based on a report from Peter Valchev <pvalchev@openbsd.org>
improved the definition of the source for NetBSD
and OpenBSD kernel
symbols (the nlist() source
file). NetBSD now defaults to getbootfile(3) if
it is available, /netbsd otherwise. OpenBSD now
defaults to /dev/ksyms if it is available, /bsd
otherwise.

Made possible compilation under BSD/OS (BSDI) 5.0
with changes to Configure, dialects/bsdi/dlsof,
dialects/bsdi/dproc.c and lib/rnmh.c. The changes
were suggested by Steven Hinkle <hinkle@bsdi.com>.
Note that these changes do not substantiate a claim
that lsof works on BSDI 5.0, because I haven't
tested it there.

Updated OpenUNIX private <sys/fs/memfs_mnode.h>,
based on a report from Larry Rosenman <ler@lerctr.org>
that it had been updated by Caldera patch OU800PK3.
Unfortunately the patch only corrects some of the
problems with the header file, so it is still
necessary to distribute a private patched version
of it with the lsof sources.

Applied a man page correction reported by Frederic
Delanoy <max_ok@yahoo.com>.

Corrected cast bugs related to using the
HP-UX
bundled C compiler on HP-UX 11.11.

4.63 April 23, 2002
Added HPUX_BOOTFILE environment variable for use
by the Configure script in determining HP-UX kernel
configuration information -- e.g., the state of
the ipis_s structure in the HP-UX 11 kernel. The
change was suggested by Marc Bejarano <beej@alum.mit.edu>.
Marc also suggested some changes to the HP-UX
section in 00FAQ that discusses Configure's use of
q4 for HP-UX 11.

Fixed a bug in the Solaris lsof file system matching
code. It was not reporting that VCHR files in
/devices were in / when /devices was in /, too.

Corrected bugs in device number, file size, file
offset, and raw device number field output generation.

Added recognition of OpenBSD 3.1 to the Configure
script with a suggestion from Peter Valchev
<pvalchev@sightly.net>. Note that this change does
not constitute a claim that lsof works on OpenBSD
3.1, because I haven't tested it there.

Built an automated test suite.
(See 00TEST and
the tests/ sub-directory of the lsof main directory).
Bela Lubkin requested it. Dale Talcott, John
Hughes, and Larry Rosenman helped me validate it
on their systems.

During the development of the test suite I discovered
the following lsof bugs or missing features, and
corrected or supplied them.

* Corrected the reporting of locks for:
  o Digital UNIX 4.0d and Tru64 Unix 5.[01];
  o HP-UX 10.30 and 11.00;
  o OpenUNIX 8;
  o UnixWare 7.1.1.

* Enabled HP-UX 10.30 and 11.00 to report open NFS
  file link counts.

* Corrected the reporting of UNIX domain socket
  names for Apple Darwin, FreeBSD 4.5 and above,
  NetBSD 1.4.1 and above, and for OpenBSD 3.0 and
  above.

* Enabled HP-UX 11.11 to stat(2) large files.

* Fixed handling of combination 32 and 64 bit
  device numbers in AIX 64 bit architectures.

Updated the AIX 4.3.3 NFS rnode recognition code,
first installed at revision 4.51. It looks like
some IBM update has
restored a single rnode structure
independent of the machine bit width.

Updated the NetBSD and OpenBSD sources so NetBSD
can process DTYPE_PIPE files, as OpenBSD was already
able to do.

Updated Darwin get-xnu-headers.sh script to reflect
information about a recent reorganization of the
Darwin CVS hierarchy, supplied by Allan Nathanson
<ajn@apple.com>.

Added defense against the standard I/O descriptor
attack.

4.64 June 26, 2002
Corrected some FreeBSD pre-processor directives.
David O'Brien <obrien@NUXI.com> pointed them out.

Updated lsof's main() function to: 1) close all
open file descriptors above 2 before starting; and
2) to set a non-interfering umask. Moved GET_MAX_FD
test from misc.c to proto.h, so that main() could
use it. Added multiple-include protection to
proto.h.

Moved FAQ's test suite Q's & A's to a more appropriate
section. Added a Q&A on HASSECURITY option and
its affect on searching for open files. (That was
already
in the man page.)

Updated hpux/kmem/dnode.c for HP-UX < 11 compilation
with information from John Dzubera <Zube@CS.ColoState.EDU>.
While lsof doesn't support HP-UX < 11 any more, I
try to avoid disabling it there when possible, and
a locking fix for HP-UX >= 11 in lsof 4.63
inadvertently disabled compilation of lsof for
HP-UX < 11. Fixed long-standing bug in HP-UX 10.20
lock reporting.

Removed language from the test suite programs that
requires an ANSI-C compiler. This allowed the test
suite to be validated with cc and gcc on the un-
supported HP-UX 10.20.

At the suggestion of Manuel Bouyer <bouyer@antioche.eu.org>
switched NetBSD and OpenBSD lsof from using nlist()
to using kvm_nlist(). Made the same change for
BSDI, Darwin, and FreeBSD.

Validated test suite on OPENSTEP 4.2.

In response to a suggestion from Jeff Stoner
<jstoner@blackboard.com> enhanced support for the
FD list of the -d option to allow it to be either
an exclusion or
inclusion list, using the '^' prefix
to denote exclusions.

Made adjustments for FreeBSD 4.6 and 5.0-CURRENT.
Fixed a FreeBSD /etc/make.conf CFLAGS extraction
bug, reported by Kris Kennaway <kris@obsecurity.org>,
and new a bug in the fix, reported by Eric Cronin
<ecronin@eecs.umich.edu>

Added nullfs support for FreeBSD, NetBSD, and OpenBSD
at the request of Andrew Brown <atatat@atatdot.net>.

Modified all readmnt() functions to ignore mounted-on
directory names that don't begin with '/'.

Tested on NetBSD 1.6A and OpenBSD 3.1.

Upgraded to Solaris 9 FCS with two changes to the
BETA-Refresh support: 1) an adjustment to dnode.c
for a change in the so_so (sonode) structure; and
2) addition of Solaris 9 FCS specific DNLC code.
David Comay <David.Comay@Eng.Sun.COM> sent me the
dnode.c change and Casper Dik <Casper.Dik@sun.com>
helped with the new DNLC support code.

Applied OpenUNIX changes that permit lsof to compile
and run on the upcoming 8.0.1 release.
The changes
were supplied by Robert Lipe <robertl@caldera.com>.
Larry Rosenman <ler@lerctr.org> provided a test
system.

Added Solaris fd file system support.

4.65 October 10, 2002
Adjusted for change in FreeBSD 5.0-CURRENT inode
structure, reported by David O'Brien <obrien@NUXI.com>.
Adjusted for changes in FreeBSD 5.0-CURRENT <sys/vnode.h>.
One change was reported by Anders Nordby
<anders@FreeBSD.org>. Adjusted for FreeBSD 5.0-CURRENT
on sparc64 architecture.

Enhanced the error reporting of Solaris lsof when
it detects a kvm_open() failure, and added a 00FAQ
entry on the cause, based on a report from Peter
J. Bertoncini <pjb@anl.gov>.

Enabled compiling of lsof for NetBSD 1.5 with the
NULL file system, using a patch from Andrew Brown
<atatat@atatdot.net>.

Removed a hack in the LTbigf test program that was
once needed when it was compiled on Solaris 9 BETA-
Refresh with gcc. The hack isn't needed on Solaris
9 FCS. Janet Hempstead
<jan@library.carleton.ca>
brought the need for this change to my attention.

Applied a patch, supplied by Andrew Brown
<atatat@atatdot.net>, that updates lsof for NetBSD
version 1.6F. Corrected handling of the NetBSD
nullfs.

Updated to BSDI BSD/OS 4.3 on a test system kindly

provided by Terry Kennedy <terry@tmk.com>.

Updated to FreeBSD 4.7.

Updated to Apple Darwin 1.5, 5.x and 6.x with
patches supplied by Allan Nathanson <ajn@apple.com>.
The patches include IPv6 support.

Updated Configure to use the -bnolibpath loader
option when building lsof on a PowerPC, running
AIX 5 or greater. Valdis Kletnieks
<Valdis.Kletnieks@vt.edu> informed me this was
needed. Lsof for AIX 5.x was initially developed
on the IA64, where -bnolibpath can't be used and
I didn't think to restore it to PowerPC loads when
AIX 5.x became available for that architecture.

Updated to UnixWare 7.1.3 on a test system provided
by Larry Rosenman <ler@lerctr.org>. Removed
claims
that lsof works on OpenUNIX 8.0.1, because UnixWare
7.1.3 is the release name of OpenUNIX 8.0.1.

Based on a comment that his e-mail address was
wrong in the lsof distribution from Kenneth Stailey
<kstailey@disclosure.com>, removed all e-mail
addresses from lsof documentation files except this
one, 00DIST. The addresses in 00DIST are used to
send revision release notices to those who contributed
to a revision, but the addresses in this file for
previous revisions and in other documentation files
sometimes grow stale and are never validated.

4.66 December 22, 2002
Acquired Solaris 7 and 8 test systems, courtesy of
John Dzubera <Zube@CS.ColoState.EDU>. Updated
00TEST and tests/TestDB accordingly.

Clarified FreeBSD 5.0 architecture claims at the
suggestion of David O'Brien <obrien@NUXI.com>.
Also implemented David's suggestion to change
Intel to x86.

Installed changes to DNLC handling in OSR lsof in
preparation for handling changes in
the OSR 5.0.7
DNLC cache. Information about the changes and
patches to handle them were supplied by Bela Lubkin

<filbo@deepthought.armory.com>.

Upgraded True 64 UNIX support to the 5.1B release
on a test system provided by Berkley Shands
<berkley@cse.wustl.edu> Had to used relaxed ANSI
compilation because of an error in a system header
file and other lsof source usages.

Implemented the HASNOSOCKSECURITY compile-time
option. When it and HASSECURITY are defined, lsof
will be built to list only the user's open files,
but will also list anyone else's open socket files,
provided the "-i" option selects their listing.
Updated the Customize script to ask about setting
HASNOSOCKSECURITY. Left it undefined in all dialect
machine.h header files. This change was requested
by Kenneth Stailey <kstailey@speakeasy.net> for
use with ntop.

Added support for OpenBSD 3.2 and its kernel trace
file.

Improved lsof help (-h) and version (-v) information
reporting.

Fixed
a FreeBSD 4.7 and above off-by-two UNIX domain
socket path termination bug, reported by Ken Stailey
<kstailey@speakeasy.net>

4.67 March 27, 2003
Began the transition of the lsof ftp server host
name from vic.cc.purdue.edu to lsof.itap.purdue.edu.
That reflects Purdue organizational changes. This
first step makes the new name an alias to the old
one. The old name, vic.cc.purdue.edu, will remain
usable for an extended period.

Corrected a revision number reference in section
17.17 of 00FAQ on the appearance of Solaris negative
DNLC caching handing.

Updated 00FAQ discussion of compilers for 64 bit
Solaris.

Validated test suite for 64 bit Solaris 8 and gcc.

At the request of Alek O. Komarnitsky <alek@komar.org>

added the "+c <width>" option to enable optional
changing of the COMMAND column output maximum width
from the default to <width>. The default maximum
width remains CMDL, as defined in lsof.h.

Fixed three AIX kernel
bit size detection bugs,
one in the AIX Configure script stanza, the second
and third in the AIX dproc.c get_kernel_access()
function. The bugs were reported by Pierre-Yves
Fontaniere <pyf@cc.in2p3.fr>, who tested the fixes.

Added kernel event queue file support for FreeBSD,
NetBSD and OpenBSD. Andrew Brown <atatat@atatdot.net>
supplied the code.

Updated to AIX 5.2 on a test system provided by
Dale Talcott <dtalcott@purdue.edu>. Had to build
work-arounds for two missing AIX 5.2 header files,
<j2/j2_snapshot> and <proc/proc_public.h>. Corrected
an off-by-one UNIX socket addressing bug. Taught
AIX lsof to handle both jfs and jfs2 files at the
same time. Adjusted for an IBM mistake in the
sizing of the fdsinfo structure in <procinfo.h>
Toshiya Nakamura <TOSHIYAN@jp.ibm.com> helped test,

Updated to FreeBSD 4.8. Corrected another bug in
FreeBSD UNIX domain socket name handling.

Corrected gcc build problems on HP-UX 11i, reported
by Yuliy Minchev
<yuliy@mobiltel.bg>.

Updated BSDI BSD/OS support to 4.3.1.

Augmented a lock ID test on NetBSD to check if the
ID is an LWP pointer.

4.68 June 18, 2003
Enhanced Configure script's cleanup operations.

Added support for OpenBSD 3.3, based on a report
from Peter Valchev <pvalchev@sightly.net>.

Improved the description of the detached PGP
signature certificate file in the main lsof README
file, based on a suggestion from Diana Stockdale
<diana@mpl.ucsd.edu>.

Installed a work-around for FreeBSD 5.0-CURRENT on
Alpha to avoid a compiler register use complaint.

Corrected a 'c' option error message. Gnele
<blaadeleng@yahoo.com> reported the problem.

Upgraded EXT2FS and UFS support for NetBSD and
OpenBSD to handle new inode information, and the
fast UFS1 and UFS2 file systems.

With the help of Andrew Brown <atatat@atatdot.net>
determined the NetBSD snapshot (1.6F) at which
<sys/mount.h> could be included under _KERNEL, thus
eliminating
the lsof netexport.h hack. The same
change applies to OpenBSD versions 3.3 and above.

Applied a patch from Armin Gruner <ag@muc.de> that
corrects the use of the HASPROCFS definition in the
FreeBSD dialect sources.

Corrected spelling errors in 00FAQ and in the
generated 00.README.FIRST_<version> file of the
distribution archive. John Jackson <jrj@purdue.edu>
and Ray Phillips <r.phillips@jkmrc.uq.edu.au>
spotted and reported the errors.

Corrected a spelling error in a comment and incorrect
use of an alarm function in the LTsock test program.

At the suggestion of Stuart Anderson <sba@srl.caltech.edu>
added preliminary (and incomplete) SAM-FS file system
support to Solaris lsof. Completion awaits availability
of SAM-FS internals.

Fixed a Solaris device name printing bug, reported by
Ric Anderson <ric@tick.Telcom.Arizona.EDU>, only
visible when HASDCACHE is not defined. Ric helped
test the fix.

Fixed an AIX kernel bit size handling bug related
to
the NFS node (rnode) structure.

Corrected a print_kptr() function call error in the AIX
AFS code, reported by David Steiner
<david.r.steiner@Dartmouth.EDU>. Upon further reflection

and because I no longer have appropriate AIX AFS test
systems, disabled AIX AFS support in the Configure script
for AIX versions above 4.3.3.0 or AIX AFS versions above 3.5.

Added support for FreeBSD 5.1.

With advice from Allan Nathanson <ajn@apple.com> adjusted
the Darwin get-xnu-headers.sh script to access the kernel
header files needed by lsof from a new form of the Apple
open source repository.

Installed Linux and lsof library bug fixes and
improvements, supplied by Marian Jancar <mjancar@suse.cz>.
One Linux improvement handles mount strings that
have octal escapes in them, eg., \040 for embedded
blanks. Marian tested the changes.

4.69 October 16, 2003
Received and applied an OpenBSD patch from Peter Valchev
<pvalchev@sightly.net> that replaces a ctob()
call with
a sysconf() call. Peter claims sysconf() is needed for
OpenBSD on SPARC. (It is not needed for NetBSD on SPARC.)

With the upgrade of my only Solaris 7 test system
to, Solaris 8, dropped the *claim* that lsof works
on Solaris 7. That doesn't mean it won't work
there, so those who want lsof for Solaris 7 probably
should be able to build it there and it probably
will work there.

Revised lsof's DNLC handling for BSD derivatives,
including: BSDI; Darwin, DEC OSF/1, Digital UNIX
and Tru64 UNIX; FreeBSD; NetBSD; and OpenBSD. The
latest NetBSD distribution's dropping of the vnode
capability ID (v_id) required the revision.

Adjusted to the latest FreeBSD 5.1-CURRENT.

Added NetBSD support for using kvm_getproc2().

Added a patch from Andrew Brown <atatat@atatdot.net>
to handle NetBSD enum conflicts and changes in the
<miscfs/kernfs/kernfs.h> and <miscfs/procfs/procfs.h>
header files.

Added a "#define _KERNEL" to the AIX dnode2.c source
file

for compatibility with a new <j2/j2_inode.h>
AIX 5.2 header file version. The addition was
supplied by Dick Dunbar <Dick.Dunbar@Siebel.com>
and was offered as a patch to lsof 4.68/

Added support for a second type of Solaris SAMFS.
Stuart Anderson <sba@srl.caltech.edu> provided the
support. SAMFS support in lsof SOLARIS remains
scanty, because Sun won't release any details on
its kernel structures.

Dropped the *claim* that lsof works on AIX 4.3.3,
because I was unable to test it there. That doesn't
mean it won't work there, so those who want lsof
for AIX 4.3.3 probably should be able to build it
there and it probably will work there.

Updated for Solaris 10 on test systems provided by
Mike Miscevic <miscevic@hotpop.com>. Casper Dik
<casper@holland.sun.com> provided significant help.
During the Solaris 10 port found and fixed an lofs
handling bug that prevented reporting of open lofs
file lock status.

Updated the DNLC test, LTdnlc, to
provide a possible
explanation about file systems on which the test
might fail.

Modified the procedure for obtaining missing Darwin
XNU kernel header files. The new one requires more
manual intervention, but is the best that can be
done with the way Apple open sources are now
organized. 00FAQ explains the new procedures for
those not used to downloading Apple open source
files.

Added support for Apple Darwin 7.0 (Mac OS X 10.3)
with patches supplied by Allan Nathanson <ajn@apple.com>.
Dropped the *claim* that lsof builds and works on
Apple Darwin below 6.0.

Validated lsof on FreeBSD 4.9, using a test system
provided by Ben Lewis <bl@purdue.edu>.

Validated lsof on FreeBSD 5.1-CURRENT for Amd64.
David O'Brien <obrien@FreeBSD.org> provided a test
system.

Changed the NetBSD Configure stanza to do header
file searches in /usr/include by default. The
LSOF_INCLUDE and NETBSD_SYS environment variables
may still be used to specify other search
paths.
Discussions with Andrew Brown and Wolfgang S.
Rupprecht <wolfgang@wsrcc.com> led to the change.

4.70 January 16, 2004
Improved shell-portability of the linux stanza of
the Configure script with a patch from Paul Jarc
<prj@po.cwru.edu>.

Added a "silent" rule to tests/Makefile for Paul.
Updated, extended and clarified the test suite
documentation in 00FAQ and 00TEST.

Fixed Solaris 10 dlsof.h typo, reported by Mike
Miscevic <miscevic@hotpop.com>. The typo prevents lsof
from loading cleanly in Solaris 10 builds past 40.

Fixed a Solaris HSFS node number reporting bug and
added a structure definition work-around for Solaris
10.

Converted PGP signing to GPG. My previous PGP key can
be used, but the gpg "--allow-non-selfsigned-uid"
option may have to be used when it is imported into a
GPG key ring.

Added bz2 compression.

Updated for OpenBSD 3.4.

Added a work-around for a missing header file in the
s10_44 Solaris 10 build.

Added
support for FreeBSD 5.2-BETA and 5.2-CURRENT.

Updated Linux AX25 support with modifications supplied
by Lutz Poetschulat <dl9cu@db0zwi.de>.

Added raw IPv6 support to Linux lsof.

Improved handling of parameters after "-i@".

Improved file name test in LTdnlc.c.

Added loop count controls to the reading of Solaris lock chains. The change was implemented as a result of a report from Steve Gonczi <steve@relicore.com>.

Based on a report from John Jackson <jrj@purdue.edu>, enabled a Solaris 10 <sys/lgrp.h> work-around for Solaris 9, too. (Patch 112233 installs an lgrp.h on Solaris 9 that needs the work-around.)

With help from Andrew Brown <atatat@atatdot.net> and John Heasley <heas@netbsd.org> added log-structured file system (LFS) support for NetBSD and OpenBSD.

Added AMD64 to the list of FreeBSD 5.x-CURRENT supported architectures. FreeBSD.org provides a test system, courtesy of (I believe) David O'Brien <obrien@FreeBSD.org>.

Added a cast to lseek() in the HP-UX /dev/kmem-based kread() function to make it work properly with the bundled HP C compiler.

4.71 March 11, 2004

Added text file support to Apple Darwin lsof and enabled the lsof executable portion of the LTbasic test. Added support for Darwin kernel queue, POSIX semaphore and POSIX shared memory files. Tested on Darwin 7.2 (aka Mac OS 10.3.2).

Added process_kqueue() function prototypes for FreeBSD, NetBSD and OpenBSD.

Picked some lint in AIX sources, lib/rnmh.c and tests/LTsock.c.

Added "-x [fl]" cross-over option, which enables +d and +D processing to cross over symbolic links and|or file system mount points. Discussion with Johan Lindquist <johan@smilfinken.net> and Eric Williams (aka The Ghost In The Machine) <ewill3@earthlink.net> on Linux news groups revealed the need for the option.

Updated support for UnixWare 7.1.4.

Added support for the optional reporting of socket

options, socket states and TCP flags for
most currently
supported dialects. John Smith <lbalbalba@hotmail.com>
and Tristan Nefzger <tn@bhtrader.com> requested the
information. The dialects and their versions for which
this feature has become available include:

AIX 4.3.2 and 5.[12]
Apple Darwin 7.2
BSDI BSD/OS 4.3.1
Digital UNIX and Tru64 UNIX 4.0
FreeBSD 4.9 and 5.2
HP-UX 11 and 11.11 (aka 11i)
NetBSD 1.6ZH
OpenBSD 3.4
OPENSTEP 4.2
OpenUNIX 8
SCO OpenServer Release 5.0.6
Solaris 2.6, 8, 9 and 10
UnixWare 7.1.[134]

Modified the Configure stanza for HP-UX 11 with better
q4 detection. Steve Bonds <3vhmxxm02@sneakemail.com>
supplied the modification.

Applied a patch from Mike Miscevic <miscevic@hotpop.com>
to enable lsof to compile with the zone support in the
Solaris 10 s10_b51 release. Added information on lsof
zone behavior to 00FAQ.

Added a "-z [z]" option to Solaris 10 lsof. It enables
the listing of zone name and
can also be used to select
the listing of processes and their files from specified
zones.

4.72 July 13, 2004
Corrected Solaris 10 ZONE column title display bug with
a patch from Joep Vesseur <Joep.Vesseur@Sun.COM>. Joep's
fix was offered as a patch to 4.71.

Based on a report from Jean-Pierre Radley <jpr@jpr.com>
about an unexpected GNU uname Configure interaction on
OSR, and working from information received from Bela
Lubkin, changed the OSR Configure stanza to use
/bin/uname instead of uname. Added an FAQ entry about
Configure version detection problems.

Added the +m and "+m m" options in response to a dialog with Robert T. Brown <rbrown@netmentor.com>. The options allow the creation of a mount table supplement file which can be used on selected dialects to get device numbers when stat(2) and lstat(2) can't deliver them. (That's generally the result of an inaccessible NFS server.) Currently the new options are supported only on Linux.

Made cpumask_t typedef _KERNEL compensation for FreeBSD 5.2-CURRENT. Refined it for 5.2.1-RELEASE with testing help from Scott Ellentuch <tuc@ttsg.com>.

Added support for FreeBSD 4.10. Larry Rosenman <ler@lerctr.org> kindly provided a test system.

Added support for NetBSD 2.0 with patches supplied by Andrew Brown <atatat@atatdot.net>. Andrew also provided two test systems.

Made handling of Linux maps file more robust, based on a report from Jan Blunck <J.Blunck@tu-harburg.de>. As a side benefit, made handling of generated stat(2) information more flexible.

As a result of a discussion with Jason Fortezzo <fortezza@mechanicalism.net>, adjusted lsof for Solaris to obtain the maximum user name length from ut_name of the utmpx structure, if <utmpx.h> exists.

Tested under OpenBSD 3.5.

Updated 00README information about using gcc (via the Configure aixgcc abbrevisiation) to compile lsof on AIX. Ann Janssen <ajanssen@nebook.com> made me aware the information was out of date.

Added an AIX SIGDANGER handler and some 00FAQ sections on lsof memory usage after a discussion with Tom Qin <tom.qin@citigroup.com> about lsof memory usage.

Added scripts/sort_res.perl5, contributed by Fabian Frederick <fabian.frederick@gmx.fr>. The script displays lsof output sorted by size and path name.

Improved handling of files on Linux NFS mount points

that use the root_squash option, based on discussions
with Paul Szabo <psz@maths.usyd.edu.au>.

Updated FreeBSD 5.2-CURRENT support, based on a problem
report from Filippo Natali <filippo@widestore.net>.

Corrected improper FreeeBSD 5.x-CURRENT #if condition,
reported by Kim Culhan <kimc@kim.net>.

Added a Configure script work-around for AIX 5.2 lsof
with JFS2, compiled by gcc >= 3.3. The work-around
was supplied by Florian M. Weps <fmw@hactrn.ch>.

4.73 October 21, 2004
Added an __XPG4_CHAR_CLASS__ #define before
#include'ing <ctype.h> on Solaris to restore
lsof's
ability to display special characters such as acute-e.

Added wide-character (e.g., UTF-8) support where
possible, prompted by a request from Kyungjoon Lee
<kjoonlee@gmail.com>. Some older dialects -- e.g.,
NetBSD 1.4.1 -- don't support wide characters, so the
wide character support is enabled by definitions in
each dialect's machine.h. Dialects with wide-
character support are listed in 00FAQ.

Make a FreeBSD 5.2-CURRENT adjustment for <sys/pipe.h>,
supplied by Sergey A. Osokin <osa@FreeBSD.ORG>.

Implemented a Linux feature request made by Jakub
Jelinek <jakub@redhat.com> that enhances lsof's ability
to locate UNIX domain sockets whose paths are named as
arguments. Jakub supplied suggested code.

Dropped *claims* that lsof works on AIX below 5.1, SCO
Dropped *claims* that lsof works on AIX below 5.1, SCO
Openserver 5.0.4, Tru64 UNIX 5.0, and UnixWare below
7.1.4. Lsof will probably build and work on those UNIX
dialect versions, but I
no longer have any way to test
lsof on them.

Added support for FreeBSD 5.3 and 6.0. The FreeBSD
5.3 support hasn't been tested.

Added FD test code that will allow dialect versions to
test FD option selections. Used the new code in the

PSTAT-based HP-UX lsof to enable it to avoid scanning
the mount table when its information is not needed.
The addition was made in response to a query from
Harvey Garner <Harvey.Garner@championusa.com> about
lsof performance in a busy NFS environment.

Upgraded lsof's AIX support level to AIX 5.3, based on
a report from Dick Dunbar <Dick.Dunbar@Siebel.com>. (I
have not tested lsof under AIX 5.3.) Based on Dick's
recommendation and local testing changed the C for AIX
version 6 and higher -qmaxmem option value to -1.

Made LSOF_AR environment variable more useful and
documented it in 00XCONFIG.

Corrected the use of sum(1) to generate signatures for
the lsof distribution and binaries to match the
documentation
that claims it is sum -r output. Jin
Guojun <jin@george.lbl.gov> noticed and reported the
problem.

Tested under OpenBSD 3.6.

Added checksum and GPG certificate files for the bz2,
gz and Z lsof distribution archives. The new files
reside with the distribution archives and supplement
the signature information already inside the archives.

Validated on Solaris 10, i8xpc, build s10_63.

4.74 January 17, 2005
Fixed a Solaris segment fault bug on systems that lack
a /dev/allkmem device. Offered the fix as a patch to
lsof 4.73. The bug was reported by Donald Zoch
<donald.zoch@amd.com>.

Updated lsof for FreeBSD 6.0 and higher for a change in
<sys/vnode.h>, based on a report from Sergey A. Osokin
<osa@FreeBSD.ORG>. Made the update available in a 4.74
'A' edition pre-release.

Filed an HP bug report about missing pstat(2) CWD info
for LOFS on HP-UX 11.11 and higher. The missing CWD
info was noticed by Ermin Borovac <e.borovac@bom.gov.au>.
Added info
to 00FAQ about the problem, which can cause
the lsof test suite's LTbasic test to fail.

Updated the q4-generated tcp_s.h in the lsof
distribution and added socket option support for HP-UX
11.00. Erwin Reyns <ereyns@europarl.eu.int> helped
test.

Updated for Solaris 10, build s10_69, with a patch
supplied by Mike Miscevic <miscevic@hotpop.com>.

Added v_path support to Solaris 10 lsof. That relieves
it of having to read and decode the kernel DNLC, and
delivers full paths more reliably.

Added specialized NFS4 support to Solaris 10 lsof.

Applied Solaris 10 patches to lsof supplied by Casper
Dik <casper@holland.sun.com>.

Updated lsof for NetBSD 2.99.10 and tested it on a
system provided by Andrew Brown <atatat@atatdot.net>.

Added support for the FreeBSD 6.0-CURRENT f_vnode
pointer in the file structure.

Added BSDI, FreeBSD, NetBSD and OpenBSD support for the
*effnlink member of the inode structure. This makes
the lsof LTnlink test run faster
on all modified
dialects and correctly on OpenBSD.

Added ptyfs support for NetBSD, using modifications
provided by Andrew Brown.

Changed the netbsd Configure stanza to look by default
for system header files in both /usr/include and
/usr/src. (The NETBSD_SYS environment variable can
still be used to select an alternate for /usr/src.)

Corrects two FreeBSD 4.10 RPC/XDR type definitions.

Added an FAQ Q&A about setuid and setgid restrictions
in HP-UX 11.11. The information in the answer was
supplied by Frank Sanders <frank.sanders@siemens.com>.

Added abbreviations for AXI FCIO and FSNAPSHOT file
flags. Holger VanKoll <Holger.VanKoll@swisscom.com>
reported the missing FCIO.

Adjusted lsof's private AIX 64 bit rnode structure for
64 bit AIX 5.2 systems. (IBM doesn't distribute a
correct <nfs/rnode.h> for it.)

Corrected a Linux socket inode printing bug reported by
Igor Schein <igor@txc.com>.

Updated for FreeBSD 4.11. The support compiles
but
hasn't been tested.

Back-ported a FreeBSD 6.0-CURRENT fix to FreeBSD
5.3-RELEASE-p1. That was done to solve a compilation
problem reported by Radko Keves <rado@daemon.sk>.

4.75 May 16, 2005
Dropped the *claim* that lsof works on DEC OSF/1 and
Digital UNIX, since my last 4.0 test system has been
removed. The last tested distribution of lsof on DEC OSF/1
and Digital UNIX was revision 4.74. It has been archived
on lsof.itap.purdue.edu in pub/tools/unix/lsof/OLD/src.

Added negation forms to the values in the -g (PGID) and
-p (PID) lists. Negated PGID and PID values, like
negated UID or login name values, are applied without
ORing or ANDing and take effect before any other
selection criteria are applied.

At the request of Marcin Gozdalik <gozdal@gmail.com>
added a -X option for Linux. The option inhibits the
reading of the /proc/net/tcp* and /proc/net/udp*
files.

Based on a report from David Gutierrez
<davegu1@hotmail.com> changed
DEC OSF/1 process table
allocation to request memory in smaller increments.

Based on a report from jayjwa <jayjwa@atr2.ath.cx>
updated the Customize script to use "tail -n 1" where
possible.

Enabled support for FreeBSD 5.4.

Improved the BSDI, FreeBSD, NetBSD, OpenBSD and Solaris
kvm_open() and kvm_openfiles() error messages.

Enabled support for NetBSD 2.99.12.

Improved HP-UX Configure stanza with help from Piet Starreveld <pstarrev@csc.com>. Picked some lint Piet found.

Enabled IPv6 support for HP-UX > 11. Piet Starreveld helped test it on 11.23, among others.

Updated for HP-UX 11.23 on the ia64 architecture.

Updated to latest FreeBSD 6.0-CURRENT, using a test system provided by Andrzej Tobola <ato@iem.pw.edu.pl>.

Added support for SCO OSR 6.0.0 and UnixWare 7.1.4 with help from Richard at SCO.

Corrected a Linux bug in NFS handling, reported by Karel Zak <kzak@redhat.com>. Karel supplied a patch.

Improved the code for accessing an
AIX 3.2 and higher
sockaddr_un structure, thus eliminating a segmentation fault possibility.

Updated for AIX 5.3.

Added preliminary (DEBUG) support for the AIX SANFS file system.

Fixed a bug in the Solaris 10 processing of the vnode's v_path pointer with code supplied by Edward Jajko <ejajko@portal.com>. The fix was offered as a patch to 4.74.

Dropped support for OpenUNIX 8, since a test system is no longer available. Archived an OpenUNIX-only distribution of the last revision (4.74) tested on OpenUNIX in pub/tools/unix/lsof/OLD/src.

Tested under Openbsd 3.7.

Tested under Darwin 7.7.0.

Enabled building on amd64 Solaris 10 with hints from Marc Aurele La France <tsi@ualberta.ca>. Marc provided a test system.

Supplied a missing quote in the FreeBSD Configure

stanza. Carl Cook <Info@quantum-sci.com> reported the
problem.

Removed "-O" option from tests/Makefile so that the
HP-UX bundled compiler won't complain.

4.76 August 30, 2005
Corrected
an example and spelling errors in man page.

Updated for Apple Darwin 8.x with changes supplied by
Allan Nathanson <ajn@apple.com>. Allan also provided a
test system.

Completed documentation of CLRLFILEADD in all machine.h
files.

At the request of Chris Markle <cmarkle@sendmail.com>
added partial listen queue length to socket options
displayed when -Tf is specified. Partial queue length
is not reported for all dialects. (00FAQ lists the
ones where it is reported.)

Updated for FreeBSD 7.0 with information supplied by
Andrzej Tobola <ato@iem.pw.edu.pl>.

Updated Solaris VxFS support for VxFS versions 4 and
above with technical advice from Craig Harmer
<craig_harmer@symantec.com>, Gary Millen
<gary_millen@symantec.com> and Chuck Silvers
<charles_silvers@symantec.com>. Testing help was
provided by Michael Antlitz <mantlitz@prophasys.com>,
Steve Ginsberg <steve@dhapdigital.com> and Kenneth
Stailey <kstailey@yahoo.com>.

Fixed a
Solaris address space map processing bug.
Janardhan Molumuri <mjanardhan@gmail.com> reported the
bug and help me identify it. Made the fix available as
a patch to 4.75.

Added support for Solaris 10 port and CTFS files. The
CTFS support is imcomplete, because I don't know how
to get inode number, size and link count. (There's
a new 00FAQ entry about that.)

Investigated a report from Christopher J Warweg
<warwegc@GAO.GOV> that the CHECKSUMS for the lsof 4.75

binary for 64 bit Solaris 8 was incorrect. It was my
packaging error. I rebuilt and repackaged the binary.

Enabled support for Linux map file names with embedded
spaces.

4.77 April 10, 2006
Added -X option support for Solaris 10 and above. When
-X is specified lsof will report cached v_node path
names for unlinked files, followed by "(deleted)".
Improved cached vnode path name handling by adding
"(?)" to the end of path names of questionable accuracy.
Updated 00FAQ to reflect these changes.

Updated
for FreeBSD 7.0-CURRENT.

Fixed name addition spacing bug, reported by Stuart
Anderson <anderson@ligo.caltech.edu>. Also updated
Solaris 10 SAMFS support at Stuart's request.

Added missing "break;" and another HASSTATVFS test to
the NetBSD and OpenBSD dnode.c. Bill Behr
<bbehr@networkstoragecorp.com> reported those needs.

Fixed an HP-UX 11 file descriptor "chunk" size problem,
reported by Per Allansson <per@appgate.com>. Per helped
devise the fix and tested it. This fix was offered as
a patch to lsof 4.76.

Updated for FreeBSD 6.0-STABLE and FreeBSD
6.1-PRERELEASE.

Updated scripts/sort_res.perl5 with changes supplied by
Frederick Fabian <fabian.frederick@skynet.be>, the
author of the script.

Corrected +|-M man page documentation error, reported
by Roger Cornelius <rac@tenzing.org>.

Improved FreeBSD user device random seed generation in
response to a problem report from Danny Braniss
<danny@cs.huji.ac.il>.

Eliminated
three syntax error bugs and other compiler
complaints from the PSTAT-based lsof. H. Merijn Brand
<h.m.brand@xs4all.nl> reported the problems and tested

the fixes.

Eliminated compiler complaints in the test suite.

Investigated problems with the building of lsof on
PA-RISC HP-UX 11.23, based on a report from John
Orndorff <John.Orndorff@sungard.com>. Found that
neither the HP bundled C compiler nor gcc would build
lsof, but the the HP unbundled ANSI C compiler would.
Concluded that HP bundled C compiler can't handle
<gssapi/gssapi.h>. Devised a work-around to gcc's
omission of the rpcent structure definition of
<netdb.h> that allows it to compile lsof's print.c, but
the resulting binary doesn't run reliably. Documented
the situation in 00FAQ.

Changed reporting of unknown file types. The number of
an unknown type is now reported as four octets. The
change was made in response to a Linux lsof bug report
from Karel Zak <kzak@redhat.com>.

Dropped
the *claim* that lsof works on BSDI BSD/OS
since my last test system has been removed. The last
tested distribution of lsof for BSDI BSD/OS was
revision 4.76. It has been archived on
lsof.itap.purdue.edu in pub/tools/unix/lsof/OLD/src.

As a result of discussing the lsof source tar's MD5
checksum with Andrew Bell <andrew.bell.ia@gmail.com>,
changed the description of a suitable MD5 tool in the
lsof distribution's documentation to name the openssl
"dgst" command.

Enabled compilation on Solaris 10 1/06 with a fix sent
by Jason Fortezzo <fortezza@mechanicalism.net>. Made
the fix available as a patch to 4.76.

Adjusted to FreeBSD 5.5-PRERELEASE.

Corrected a bug in the lsof library's process_file()
function to enable the locating of AIX XTI sockets by
their TCP/IP address values. The bug was reported by
Michel Dubois <Dubois@sears.ca>.

Based on a bug report from Karel Zak <kzak@redhat.com>
added command name length checking to as many dialects
as

possible (Linux for Karel) for the "-c c" option.

Updated for OpenBSD 3.[89]. Tested the 3.9 update on a system provided by David Mazieres. I have not tested on OpenBSD 3.8, but David reports lsof 4.76 worked there.

Ended regression testing of lsof on 32 bit Solaris 8 with the ending of access to a test system. Lsof continues to be tested on 64 bit Solaris 8.

4.78 April 24, 2007

Added more information to the lsof FAQ about missing link counts and sizes on Linux files.

Simplified Linux stat() and lstat() usage.

Relocated #define's that prevent OpenBSD compilation on systems without a /proc file system. Pieter Bowman <bowman@math.utah.edu> reported the problem.

Added code to avoid processing Linux /proc/<PID>/maps file entries with zero device and node numbers. Some such entries now have names associated with them that are not path names -- e.g., "[heap]", "[stack]" or "[vdso]". Scott Worley <sworley@chkno.net> reported lsof's mishandling
of such entries.

Added SELinux security context support, provided by James Antill <james.antill@redhat.com>. I have not tested this, but James and Karel Zak <kzak@redhat.com> have.

Added the #include of <sys/types.h> to Solaris lsof to enabled compilation on Solaris 10 6/06. Peter Harvey Peter.Harvey@Sun.COM diagnosed the problem and supplied a patch.

Added better support for JFS2 on AIX 5.2 and 5.3, based on bug reports and help from Thomas Braunbeck <BRAUNBEC@de.ibm.com> and Tom Whitty <TWHITTY@cerner.com>.

Documented that lsof supports AIX 5.3 only up through maintenance level 1 (ML1).

Enabled Solaris lsof to locate the AFS vnode operation address for OpenAFS 1.4.1. The fix was supplied by

Robert Jelinek <Robert.Jelinek@MorganStanley.com>.

Enabled support for Solaris 10 ZFS. If the necessary
ZFS header files aren't found, lsof offers the option
to drop ZFS support, to use internal, possibly
inaccurate structure definitions,
or to supply a path
to the missing header files. Horst Scheuermann
<Horst.Scheuermann@uni-trier.de> provided a development
system and helped test the support.

Corrected a typo in the man page, reported by Eric S.
Raymond <esr@thyrsus.com>.

Changed the spelling of macroes to macros in lsof
source and documentations files, based on a suggestion
from Josh Soref <timeless@gmail.com> and verification
with the OED.

The following dialects are no longer supported: 32 bit
AIX 5.2, HP-UX 11, OpenStep 4.2, Solaris 2.6, Solaris
8, True Unix 64 and UnixWare 7.1.4. Lsof may work on
them, but I no longer have test systems for them.
Support for OpenBSD ends at its version 3.9 for lack of
interest in the port.

4.79 April 15, 2008

```
**************** IMPORTANT NOTE ******************
*                                    *
* Lsof support has been reduced to the following *
* dialects: AIX, FreeBSD, Linux and Solaris, and *
* only in selected versions
of those dialects.   *
* The selected versions are listed in this file  *
* and in other lsof documentation.              *
*                                    *
* I have made this move because of retirement    *
* and because I no longer have many test systems *
* available to me.                          *
*                                    *
* Vic Abell                              *
*                                    *
**************************************************
```

Fixed a Solaris VXFS permission problem when accessing
the VXFS inode offsets. The bug was reported by
Gregory A. Ivanov <ivga@mts.ru>. Gregory tested the

fix.

Moved an #include <string.h> later in FreeBSD dlsof.h
to enable compilation on recent FreeBSD releases. The
change was supplied by Roy Marples <uberlord@gentoo.org>.

Improved Linux /proc file stream reading speed by applying
an expanded version of a patch from
Eric Dumazet
<dada1@cosmosbay.com> that allocates a page size buffer
to each stream. Improved TCP, TCP6, UDP and UDP6 hashing
by determining the hash bucket count from the /proc/net
sockstat and sockstat6 files. The improvement was
suggested by Eric and he provided sample code. Eric also
tested both improvements.

Modified Configure script to build lsof on FreeBSD
6.2. Tested it on a system provided by Larry Rosenman
<ler@lerctr.org>.

Fixed a Linux maps file processing bug that prevented path
names from having an embedded colon. James Lingard
<jchl@arastra.com> reported the bug and helped with its
fix.

Based on reports from Eric Dumazet and Samuel Thibault
<samuel.thibault@ens-lyon.org> added support for the
Linux 2.6.22 kernel's /proc/<PID>/fdinfo files -- i.e.,
file offset and flags. Samuel Thibault provided a test
system.

Fixed a Linux UNIX socket memory leak, reported by
Philip Shin <pshin@xceedium.com>. Phillip supplied the
fix.

With
generous assistance from HP added support for an HP-UX
11.23 patch that makes TLI/XTI socket address information
available.

Fixed a header file problem for FreeBSD 6.2 on the Alpha
architecture. The problem was reported by Pekka Honkanen
<phonkane@cc.hut.fi>. Pekka tested the fix.

Based on a report and using suggested fixes from Karel Zak
<kzak@redhat.com>, made these changes to Linux lsof: corrected
a getpidcon() error message; insured that inode numbers are
handled correctly for their unsigned long long type; and

improved SELinux handling. At the request of Alon Bar-Lev <alonbl@gentoo.org> added the LINUX_HASSELINUX environment variable to enable or inhibit SElinux support unconditionally.

Updated Configure for FreeBSD 8.0-CURRENT and tested lsof on AMD64 there.

Added a patch provided by Oles Hnatkevych <don_oles@able.com.ua> for FreeBSD systems where the root file system is on a CD9660 device.

Added compensation for the disappearance of FMARK and FDEFER from the FreeBSD 8.0-CURRENT <sys/file.h>.

Updated FreeBSD lsof with ZFS support. Larry Rosenman <ler@lerctr.org>, Erwin Lansing <erwin@FreeBSD.org>, Wesley Shields <wxs@atarininja.org> and Dmitry Morozovsky <marck@rinet.ru> provided test systems.

Fixed a socket file identification problem reported by Pavol Rusnak <stick@gk2.sk>. Pavol also reported the cause of the problem.

Added the ability to format the repeat mode marker line with strftime(3), where the dialect supports the localtime(3) and strftime(3) C library functions. The addition was suggested by Mike Depot <mdepot@comcast.net>, who also tested it. The addition required creating a new main lsof source module, util.c, that contains functions whose compilation conflicts with the general header file tree defined by lsof.h and dlsof.h.

Based on reports from Andrei V. Lavreniyuk <andy.lavr@reactor-xg.kiev.ua> and Pav Lucistnik <pav@FreeBSD.org> updated the FreeBSD 7.0 and above file lock handling to use new locking structures. The update requires a terrible hack to get a definition for the lock owner structure from a kernel source module into a local lsof header file.

4.80 May 12, 2008

Updated for a FreeBSD 7.0 and above byte level locking change. The problem was reported by Conrad J. Sabatier <conrads@cox.net>, who helped test the update. Wesley Shields <wxs@FreeBSD.org> provided an 8.0-CURRENT test system.

Propagated the FreeBSD 7.0 and above locking changes to
FreeBSD 6.x, based on a report from Edwin Groothuis
<edwin@FreeBSD.org>.

Added warnings for unsupported dialects or versions.

Added Linux support for the UDPLITE protocol. Eric
Dumazet <dada1@cosmosbay.com> supplied a patch.

Added a missing quote to the Configure script's
FreeBSD stanza.

Added a usage.o rule to the HP-UX PSTAT-based
Makefile. I mistakenly deleted the rule at revision
4.79. The missing rule was reported by Kawaljeet
Kaur
<kawaljeet.malviya@gmail.com> who tested the corrected
Makefile.

4.81 October 21, 2008
Updated the Darwin libproc sources with changes from
Allan Nathanson <ajn@apple.com>. Tested them on a iMac
mini, provided by Apple Inc.

Changed dummy declarations in library source files to
eliminate complaints about unused variables and empty
object files. This change may not work on dialects I
can no longer test; it has been tested on some versions
of AIX, Darwin, FreeBSD, Linux and Solaris.

At the request of Hal Brooks <hal@uga.edu> added support
for Linux /proc/net/packet files. Hal tested it.

Added socket file only performance enhancements to Linux
and PSTAT-based HPUX lsof.

Added htonl call around improper usage of INADDR_LOOPBACK;
report from an Apple engineer forwarded by Allan Nathanson
<ajn@apple.com>.

Adjusted for FreeBSD-8.0 change in device number handling.
The adjustment should work for FreeBSD 5 and above, should
the 8.0 change
be propagated downward. The problem was
reported by Pav Lucistnik <pav@FreeBSD.org>. An updated
test system was provided by Erwin Lansing <erwin@FreeBSD.org>.

Reduced AIX support to version 5.3, since test systems with
older versions are no longer available to me.

At the request of Marjo F. Mercado <mmercado@xceedium.com>
and Phil Shin <pshin@xceedium.com> applied some speed
improvements to lsof, particularly when the files of
interest are /Internet files -- i.e., selected with lsof's
"-i" option. Added a two new options to assist the
improvements: 1) "-c^<command>" to tell lsof to exclude the
named command(s); and 2) "-stcp|ud>:[^]state' to tell lsof
to include in its reporting or exclude ('^') from its
reporting Internet files in the named states (e.g., LISTEN,
^CLOSE_WAIT, IDLE, etc.) For the most part these changes
apply only to AIX, Darwin, FreeBSD, PSTAT-based HP-UX, Linux
and Solaris, since those are the only places I could test
them. They
are controlled by the HASTCPUDPSTATE definition
in each dialect's machine.h header file. Marjo and Phil
provided HP-UX 11.23 and 11.31 test systems.

Fixed a stat(2) problem on HP-UX 11.31 while testing the
speed improvements.

Adjusted for kernel header file changes in FreeBSD
8.0-CURRENT. Larry Rosenman <ler@lerctr.org> provided
a test system.

Added a warning for Solaris systems where VxFS node info
can't be obtained from the VxFS utility library. The
warning was requested by Tom Matthews <Tom.MATTHEWS@rbs.com>.

Corrected mishandling of file system path name arguments
that have trailing slashes, except, of course, the root
file system, "/". Allan Nathanson <ajn@apple.com> reported
the bug.

4.82 March 25, 2009
Corrected an over-zealous exclusion test that caused
lsof to report nothing when it was given no arguments
and built with HASSECURITY and HASNOSOCKSECURITY enabled.
Joshua Kinard <kumba@gentoo.org> reported the bug and
supplied information
for reproducing it.

Based on a report from Dan Trinkle <trinkle@cs.purdue.edu>
corrected use of <sys/utsname.h> for 32 bit Solaris 10
and above compilations. Simultaneously eliminated a
casting complaint in arg.c and updated Configure to use

the appropriate 64 bit compilation option (-xarch=v9 or
-m64) with the Solaris Sun C compiler.

Updated for FreeBSD 7.1-PRERELEASE with information
supplied by Larry Rosenman <ler@lerctr.org>.

Updated the Darwin libproc sources with changes from
Allan Nathanson <ajn@apple.com>. Tested them on a iMac
mini, provided by Apple Inc. Allan also provided man
page corrections.

Updated the FreeBSD Makefile to use the ${MAKE} variable
for ZFS dnode2.c module compilation, based on a suggestion
from Alexis Ballier <aballier@gentoo.org>.

Improved the Solaris VxFS library location test, based on a
suggestion from Jason Fortezzo <fortezza@mechanicalism.net>.
Jason tested the change.

Updated Solaris 10 ZFS support
for ZFS version 4 and ZFS
pool version 10, using a test system kindly provided by
Vladislav Nespor <vladislav.nespor@id.ethz.ch>. Renata
Maria Dart <renata@slac.stanford.edu> tested on ZFS
version 4, verifying that the update works there, too.
(ZFS pool version 10 is apparently the ZFS version shipped
with the 10/08 update to Solaris. The original ZFS
support targeted ZFS version 3.)

I still consider ZFS support in Solaris lsof a hack,
because it depends on a znode structure definition that
I developed using dbx. Sun is remiss in not distributing
the ZFS header files used to build the distributed kernel.

Because of the znode structure definition hack, I can't
guarantee that lsof ZFS support will work for any other
versions of ZFS.

Solaris 10: adjusted to a change in the way devices are
stored in the kernel; fixed a problem in zone handling;
and added rudimentary sharedfs support. Carson Gaspar
<carson@taltos.org> reported the device number
problem,
provided a test system, and tested the changes. Peter
Vines <psv2b@eservices.virginia.edu> reported the zone
handling problem and tested the fix.

Adapted to FreeBSD 8.0-CURRENT changes in device number

computation. Problem was reported by Erwin Lansing
<erwin@FreeBSD.org>. Larry Rosenman <ler@lerctr.org>
provided a test system.

Corrected Solaris Configure test for appropriate VxFS
library when using gcc to compile lsof.

Updated for loss of KAME IPv6 FreeBSD accommodations.

Adapted to FreeBSD 7.2. Made Configure script recognized
FreeBSD 6.3.

4.83 January 18, 2010
Converted Solaris 10 and above ZFS support to use the CTF
debugger library, libctf. Code was supplied by Robert
Byrnes <Robert.Byrnes@deshaw.com>.

Corrected a typo in the testing of the LINUX_HASSELINUX
environment variable in the Configure script. The error
was reported by Mike Frysinger <vapier@gentoo.org>.
At Mike's request made Configure script accept LSOF_RANLIB
(ranlib
command), LSOF_CFGF (additional configuration flags)
and LSOF_CFGL (additional library specifications) from the
environment.

Enabled complilation of Solaris 10 lsof after a recent Sun
patch which changed the PC file system's structure. Peter
Vernam <pvernam@draper.com> reported the problem and helped
with the fix.

Made the sort of configuration CFLAGS in the CkTestDB
script impervious to locale settings.

Ported to Solaris 11, using a test system kindly provided
by David Day <dday76@gmail.com>.

Adjusted to the disappearance of <nfs/rpcv2.h> in FreeBSD
8.0-BETA1.

Changed Solaris node type lookup to a hashed method and
added some ability for it to handle duplicate vnodeop names
in /dev/ksyms.

Updated for FreeBSD 9.0-CURRENT. Andrzej Tobola
<ato@iem.pw.edu.pl> provided a test system. Extends the
fix to FreeBSD 6.0 and above via a Configure test and a
compile-time definition. The need for the extension was

reported by Erik Trulsson
<ertr1013@student.uu.se>>

Made corrections to FAQ typographical errors, suggested
by Josh Soref <timeless@gmail.com>.

Added __UCLIBC__ test to Linux dlsof.h so lsof would compile
on an Intel ARM XScale processor. The addition was provided
by Doug Kehn <rdkehn@yahoo.com>.

Added test for <utmpx.h> to FreeBSD configuration. Improved
its use in lsof.h. The changes were supplied by Martin Wilke
<miwi@FreeBSD.org>.

4.84 July 29, 2010
Fixed a man page nroff command error with a correction
supplied by Josh Soref <timeless@gmail.com>.

Made Configure script recognize FreeBSD 7.3. Larry Rosenman
<ler@lerctr.org> provided a test system.

Improved task support, initially for Linux only, with help
provided by Jerome Marchand <jmarchan@redhat.com> and
Miklos Szeredi <mszeredi@suse.cz>. The support includes a
new compile-time definition, HASTASKS, and a new run time
option, "-K" to select task reporting.

While adding help output support for "-K", reorganized
the
printing of help columns to make it much easier to add a new
option description.

Updated the Solaris PC file system structure patch in
revision 4.83 so it will compile with gcc.

Disabled the Solaris lgrp_root work-around in the Solaris
machine.h so it won't cause compilation problems on Solaris
11. It no longer causes compilation problems on my Solaris
9 and 10 test systems, but some older Solaris 9 and 10
versions may still need it, so the work-around was left in
the Sun machine.h and a FAQ entry was created about it.

Updated for Solaris 11 b134, using a test system kindly
provided by Carson Gaspar <carson@taltos.org>. Made
provisions for the next ZFS version. Added info about
the failure of the LTnlink test on ZFS file systems.

Corrected typo in Configure script, reported by Dmitry

Berezin <dmitryb@oit.rutgers.edu>.

4.85 September 27, 2011

John Dzubera <Zube@CS.ColoState.EDU> kindly provided a patched
Solaris 9 test system with
the lgrp_root conflict and I was
able to devise an automatic work-around for the conflict. The
special note in .../dialects/sun/machine.h was removed and
the 17.28.1 FAQ entry was modified to reflect the update.

Added a Solaris 11 work-around for a typedef problem with
<sys/mutex.h>. Carson Gaspar <carson@taltos.org> reported
the problem and supplied the work-around.

Added support for FreeBSD 7.4 and 8.2; tested on systems
provided by Larry Rosenman <ler@lerctr.org>.

Added support for 32 bit Solaris 11 lsof with mods supplied
by Jan Wortelboer <J.H.P.Wortelboer@uva.nl>.

Added Solaris 11 support for using an alternate genunix
location. Bill Goodridge <bill@its.brooklyn.cuny.edu>
reported the alternate location.

Added further Linux cross configuration support to lsof's
Configure script. The additional support was supplied by
Grant Erickson <erick205@umn.edu>. See the descriptions of
the LINUX_* environmen variables in 00XCONFIG for more
information.
Tested lsof on Linux kernel 2.6.32 and picked
some lint that surfaced during the test.

Added fixes and changes for Apple Mac OS X 10.6, provided by
Allan Nathanson <ajn@apple.com>. Allan also provided a test
system.

Tested on FreeBSD 6.4 i386, using a test system provided by
Terry Kennedy <TERRY@tmk.com>. Updated for recent FreeBSD ZFS
changes on an 8.2 amd64 test system also provided by Terry.

Changed documentation to indicate FreeBSD 7.x is no longer
supported, since I no longer have a test system.

Made some changes to the lsof man page, suggested by Navid
<evi1m4chine@googlemail.com>.

Added compensation for Solaris 10 systems that have patch
144488-10. The patch requires that the new header file

<sys/socket_proto.h> be included while _KERNEL is defined.
Brett Bartick <Brett.bartick@nomura.com> reported the problem
first, followed by Stuart Anderson <anderson@ligo.caltech.edu>.
Michael Hocke <michael.hocke@nyu.edu> suggested a work-around
which
I refined to limit it to the specific Solaris 10 instance
and then tested on a system provided by Charles Stephens
<cfs@cowlabs.com>

Added the +|-e option for Linux. It exempts file systems
named by path from function calls that might block in the
kernel -- i.e., stat(2) and lstat(2), and when the +e form
is used, readlink (2). The new packager of lsof for the
Linux Fedora and RHEL distributions, Peter Schiffer
<pschiffe@redhat.com>, asked for the feature so it could
be used with Clearcase file systems, whose implementation
can block stat(2) calls. I consider this feature very risky
and easy to misuse -- e.g., specifying the file system as
'/' would exempt all file systems. I don't intend to
propagate this option to any other UNIX dialect that lsof
currently supports.

Made FreeBSD 9 adjustment.

Fixed a Linux bug that prevented the display of paths for
abstact UNIX sockets. Masatake Yamato <yamato@redhat.com>
reported the bug
and supplied a patch.

Added compensation for the removal of RPC header files from
GlibC 2.14 for Linux. Marek Behun <kabel@blackhole.sk>
reported the problem and supplied a patch.

Added support for Linux Netlink protocol. Masatake Yamato
requested the support and supplied a patch. Peter Schiffer
<pschiffe@redhat.com> provided a test system.

Corrected Linux UDP6-lite path. The error was reported by
Masatake Yamato and he also supplied a patch.

4.86 April 10, 2012
Lsof for AIX is no longer supported on any versions of that
operating system.

Added information about the clang compiler for FreeBSD to the
FAQ.

Corrected an arg.c bug in the accumulation of +|-e option

values, reported by Peter Schiffer <pschiffe@redhat.com>.
This correction was supplied as a patch to revision 4.85.

Enabled FreeBSD 10 support and tested it there on a system
provided by Larry Rosenman <ler@lerctr.org>.

Updated for latest Solaris 11 with patches supplied by
Carson
Gaspar <carson@taltos.org>. Carson supplied a test
system.

Adjusted Linux file system search method to compensate for
NFS mounts that have duplicate device numbers. The problem
was reported by Peter Schiffer <pschiffe@redhat.com>, who
provided a test system.

At the request of Peter Schiffer <pschiffe@redhat.com>, added
support for Linux SCTP socket files. Peter provided a test
system. Applied a warning patch supplied by Peter.

Added support for Mac OS X 10.7 (Lion), provided by Allan
Nathanson <ajn@apple.com>. Allan also supplied a test
system.

Enabled FreeBSD 8.3 support and tested it there on a system
provided by Larry Rosenman <ler@lerctr.org>.

Corrected the FAQ information on ZFS with Solaris 10 after
Steven Blackmon <stblackm@cisco.com> and Prasad Jampala
<jampalp@cisco.com> pointed out that it was incorrect --
i.e., outdated by the libctf changes at revision 4.83.

Added code to handle a Linux NFS-mounted root. Jia He
<hejianet@linux.vnet.ibm.com>
reported the need for this.

4.87 January 2, 2013
Added an entry to 00FAQ about lsof behavior when the
HASSECURITY and HASNOSOCKSECURITY options are defined.
Carson Gaspar <carson@taltos.org> pointed out the need
for this clarification.

Added a work-around for a missing definition of mach_port_t
in Darwin 9 (Mac OS/X 10.5.8). The work-around was supplied
by Jim Reid <jim@rfc1035.com>.

Added support for Linux anon_inodefs, provided by Masatake
YAMATO <yamato@redhat.com>.

Documented a Solaris 9 and 10 portmap reporting problem
(+M) in 00FAQ. The problem was reported by Clint
Roberts <Clint.Roberts@ttius.com>. I have no solution
to the problem, but discuss a possible work-around in
the answer to this 00FAQ question: "Why doesn't lsof
report portmap registrations for some Solaris versions?"

Added FreeBSD support for the oldnfs and newnfs file system
types. Daniel Braniss <danny@cs.huji.ac.il> reported the
need for the addition.

Added
ICMP socket support for Linux with code provided by
Masatake YAMATO <yamato@redhat.com>.

Corrected the reporting of process group ID for libproc
versions of Mac OS X with a patch from Jeff Trawick
<trawick@gmail.com>. The patch has not been applied to
Darwin kmem versions, because of little call for them
and inadequate test system access. The patch has been
tested on Mac OS X 10.8 (Mountain Lion), courtesy of a
test system provided by Allan Nathanson <ajn@apple.com>.

Added thread support to those FreeBSD versions that have
ki_numthreads in their kinfo_proc structure. This also
activates the -K option for those FreeBSD versions. Jeff
Trawick reported problems with FreeBSD lsof when threads
are present and this addition solves those problems.

Made changes to 00FAQ and the distribution, suggested by
Warren Young <warren@etr-usa.com>. The 00FAQ changes
center on sections that discuss the -s option. The changes
to the distribution include
a ChangeLog file that is either
a pointer to or a copy of 00DIST, the distribution notes.

Added support to FreeBSD for using the clang compiler.

Added Linux support for using the getxattr() call to obtain
socket protocol identification when it is can't be obtained
from the /proc/net files that lsof examines. Masatake YAMATO
<yamato@redhat.com> developed the kernel patch to getxattr()
and supplied the lsof patch.

4.88 October 13, 2014
Reduced to 50 the number of open file descriptors lsof
attempts to close while trying to protect itself from a

file descriptor exec() attack. This limits the overhead
lsof incurs on systems that have large file descriptor
limits, yet provides sufficient open descriptors for the
library functions lsof calls.

Updated for changes in FreeBSD 10 with advice from Eygene
Ryabinkin <rea@freebsd.org>. Taught Configure to recognize
FreeBSD 8.4.

Herein am noting that lsof for Solaris 10 or 11 is no longer
supported. I
no longer have test systems. Some support is
still available from Casper Dik <Casper.Dik@oracle.com> and a
Solaris 11 patch he provided is included in this revision.

Initialized local variables in the Linux process_id() function.
Jia He <jiakernel@gmail.com> reported the problem.

Added support for FreeBSD 11.

Updated FreeBSD ZFS Configure stanza to supply a dummy
opt_kdtrace.h when needed.

Added tmpfs file system support for FreeBSD.

Since a test system is no longer available, dropped the
claim of FreeBSD 4.9 support.

Added the +|-E options for Linux. -E displays endpoint info;
+E displays endpoint info and endpopint files. Masatake YAMATO
<yamato@redhat.com> requested this support and suggested code
to implement it.

Fixed a Linux bug handling processes whose command includes a
non-printing character, particularly a NEWLINE character, and
clarified printing of single '\\' characters in command and
file names. Stephane Chazelas <stephane.chazelas@gmail.com>
reported
the problem.

Added support for Linux RDMA and CRYPTO protocal names and UNIX
socket type with code from Masatake YAMATO <yamato@redhat.com>.

Fixed field output to insure that the field descriptor field is
always selected, since it identifies the file set. The bug was
reported by Gary Plewa <gary.m.plewa-1@lowes.com>.

4.89 July 7, 2015

Applied correction from Casper Dik <Casper.Dik@oracle.com> to his patch for Solaris 11 that I applied incorrectly in revision 4.88.

Updated for latest version of FreeBSD 11.0-CURRENT.

Compensated for a missing FreeBSD 10.0 typedef of bool on the i386 architecture. Allen Hewes <rallenh@hotmail.com> provided a test system. Andrey Chernov <ache@freebsd.org> provided useful advice.

Improved tests/Add2TestDB script with a patch from Peter Schiffer <pschiffe@redhat.com>. Added patches from Peter to eliminate Linux gcc warnings. Updated Lsof.8 with improvements supplied by Bjarni Ingi Gislason <bjarniig@rhi.hi.is>.

Changed FreeBSD global CFLAGS extraction per Terry Kennedy <TERRY@tmk.com>. Also made sure -DNEEDS_BOOL_TYPEDEF is #define'd when the resulting CFLAGS doesn't contain it. Terry reported that need.

Improved Linux test for tcp.h in response to a report from Cato Auestad <cato@cato.ninja>. Cato did the testing.

Fixed Linux UNIX socket search by name bug reported by Stephane Chazelas <stephane.chazelas@gmail.com>.

Added Linux display of UNIX socket endpoint information with code provided by Masatake YAMATO <yamato@redhat.com>. Peter Schiffer <pschiffe@redhat.com> provided a test system.

Insured that type definitions from <vm/vm.h> were again made visible to lsof on FreeBSD 11 after a system header file change hid them.

4.90 February 14, 2018

```
!!!NOTE!!!
```

```
!   versions 1, 2, 3 and 4.                        !
!                                          !
!   Vic Abell <abe@purdue.edu>                     !
!                                          !
!!!NOTE!!!
```

Added a patch from Larry Rosenman <ler@lerctr.org> that is needed on FreeBSD 12 so the lsof compilation can obtain the inpcb and tcpcb structures from their respective header files.

Updated FreeBSD dmnt.c for the ino64 changes.

Inserted a patch for Solaris 12.x to avoid compilation errors from <sys/aio_req.h>, based on information provided by Jorn Clausen <joern.clausen@uni-bielefeld.de>. Jorn tested the patch.

Added performance enhancement that uses the FreeBSD closefrom() and dup2() C library functions when available. The enhancement was supplied by Conrad Meyer <cem@freebsd.org>.

Corrected FreeBSD lsof's gathering of ZFS file device numbers.

Updated lsof test library for FreeBSD.

Updated socket optons information collection from the socket structure per changes supplied by Gleb Smirnoff <glebius@FreeBSD.org>.

Added patch to dlsof.h that avoids a _KERNEL conflict with bzero. Mateusz Guzik <mjguzik@gmail.com> supplied the patch.

Corrected test library to handle 64 bit FreeBSD device numbers.

Added #defines for FreeBSD 12, src r324225, from Gleb Smirnoff <glebius@FreeBSD.org>.

Incorporated Linux pseudoterminal endpoint processing (+|-E) provided by Masatake YAMATO <yamato@redhat.com> with access to test systems provided by Peter Schiffer <pschiffe@redhat.com>.

Corrected Linux command extraction for commands that include parentheses -- e.g., "(sd-pam)".

4.91 March 26, 2018

A bug has been reported in the PTY endpoint processing of Linux lsof 4.90 by Peter Wu <peter@lekensteyn.nl>, making it necessary for me to release another revision of lsof.

This revision applies two fixes that correct the Linux PTY endpoint processing bug. Masatake YAMATO <yamato@redhat.com>

supplied the fixes.

4.92 July 14, 2018

THIS IS A FREEBSD-ONLY DISTRIBUTION!

Fixes Configure script section that creates the FreeBSD lockf_owner.h header file; fixes <string.h> conflicts with FreeBSD kernel header files. Mateusz Gusik supplied part of the fix.

Released lsof to GitHub with Purdue releases documented in support/GitHub-release.

Vic Abell <abe@purdue.edu>
July 14, 2018

4.92.1 May 6, 2019

```
!!!NOTE!!!
```

4.93.2 May 8, 2019

  Update the version number embedded in lsof executable.

Masatake YAMATO <yamato@redhat.com>, a member of lsof-org
May 8, 2019

Found in path(s):
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/00DIST
No license file was found, but licenses were detected in source scan.

Making and Installing lsof 4

```
************************************************************************
| The latest release of lsof is always available via anonymous ftp |
| from lsof.itap.purdue.edu.  Look in pub/tools/unix/lsof.         |
************************************************************************
```

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==========
Pre-built Lsof Binaries
==========

Avoid using pre-built lsof binaries if you can; build your own instead.

I do not support lsof binaries built and packaged by third parties nor lsof binaries built from anything but the latest lsof revision. (See the Bug Reports section for more information on the details of lsof support.)

One important reasone for those support restrictions is that when lsof is built its Configure script tunes lsof to the features available on the building system, often embodied in supporting header files and libraries. If the building system doesn't have support for a particular feature, lsof won't be built to support the feature on any system.

The Veritas VxFS file system is a good example of a feature that requires build-time support.

UNIX dialect version differences -- Solaris 8 versus 9, AIX 4.3.3 vesus 5.2, etc. -- can also render a pre-built lsof binary useless on a different version. So can kernel bit size.

There are so many potential pitfalls to using an lsof binary improperly that I strongly recommend lsof be used only where it is built.

==========
Making Lsof
==========

```
$ cd <lsof source directory>
$ ./Configure <your dialect's abbreviation>
$ make
```

(Consult the 00FAQ and 00XCONFIG files of the lsof distribution for information about using make command invocations and environment variables to override lsof default Makefile strings.)

This lsof distribution can be used with many UNIX dialects. However, it must be configured specifically for each dialect. Configuration is done in three ways: 1) by changing definitions in the machine.h header file of the UNIX dialect of interest; 2) by defining environment variable values prior to calling Configure (see the 00XCONFIG file, the Environment Variabls and Environment Variables Affecting the Configure Script sections of this file); and 3) by running the Configure shell script found in the top level of the distribution directory.

You may not need to change any machine.h definitions, but you might want to look at them anyway. Pay particular attention to the definitions that are discussed in the Security section of this file. Please read that section.

The Configure script calls three other scripts in the lsof distribution: AFSConfig; Inventory; and Customize. The AFSConfig script is called for selected dialects (AIX, HP-UX, NEXTSTEP, and Solaris) to locate AFS header files and determine the AFS version. See The AFSConfig Script section of this file for more information.

The Inventory script checks the completeness of the lsof distribution.

Configure calls Inventory after it has accepted the dialect abbreviation, but before it configures the top-level directory for the dialect. See The Inventory Script section of this file for more information.

Configure calls the Customize script after it has configured the top-level lsof directory for the declared dialect. Customize helps you modify some of the important compile-time definitions of machine.h. See the The Customize Script section.

You should also think about where you will install lsof and its man page, and whom you will let execute lsof. Please read the Installing Lsof section of this file for information on installation considerations.

Once you have inspected the machine.h file for the dialect for which you want to build lsof, and made any changes you need, run the Configure script, supplying it with the abbreviation for the dialect. (See the following table.) Configure selects the appropriate options for the dialect and runs the Mksrc shell script in the dialect sub-directory to construct the appropriate source files in the top-level distribution directory.

Configure may also run the MkKernOpts script in the dialect sub-directory to propagate kernel build options to the dialect Makefile. This is done for only a few dialects -- e.g., DC/OSx, and Reliant UNIX.

Configure creates a dialect-specific Makefile. You may want to inspect or edit this Makefile to make it conform to local conventions. If you want the Makefile to install lsof and its man page, you will have to create an appropriate install rule.

Lsof may be configured using UNIX dialect abbreviations from the following table. Alternative abbreviations are indicated by a separating `|'. For example, for SCO OpenServer you can use either the ``osr'' or the ``sco'' abbreviation:

```
 $ Configure osr
   or
 $ Configure sco
```

Abbreviations	UNIX Dialect
aix	IBM AIX 5.[23] and 5.3-ML1 using IBM's C Compiler

aixgcc IBM AIX 5.[12] and 5.3-ML1 using gcc
darwin Apple Darwin 7.x and 8.x for Power Macintosh systems
decosf DEC OSF/1, Digital UNIX, Tru64 UNIX 4.0 and 5.1
digital_unix Digital UNIX, DEC OSF/1, Tru64 UNIX 4.0 and 5.1
du Digital UNIX, DEC OSF/1, Tru64 UNIX 4.0 and 5.1
freebsd FreeBSD 4.x, 4.1x, 5.x and [67].x
hpux HP-UX 11.00, 11.11 and 11.23, using HP's C
Compiler, both /dev/kmem-based and PSTAT-based
hpuxgcc HP-UX 11.00, 11.11 and 11.23, using gcc, both
/dev/kmem-based and PSTAT-based
linux Linux 2.1.72 and above for x86-based systems
netbsd NetBSD 1.[456], 2.x and 3.x
next NEXTSTEP 3.[13]
nextstep NEXTSTEP 3.[13]
ns NEXTSTEP 3.[13]
nxt NEXTSTEP 3.[13]
openbsd OpenBSD
2.[89] and 3.[0-9]
openstep OPENSTEP 4.x
os OPENSTEP 4.x
osr SCO OpenServer Release 5.0.6, using the C compiler
from the SCO developer's kit
osrgcc SCO OpenServer Release 5.0.6, using gcc
osr6 SCO Openserver 6.0.0, using the SCO C compiler
sco SCO OpenServer Release 5.0.6, using the C compiler
from the SCO developer's kit
scogcc SCO OpenServer Release 5.0.6, using gcc
solaris Solaris 2.x, 7, 8, 9 and 10 using gcc
solariscc Solaris 2.x, 7, 8, 9 and 10 using Sun's cc
tru64 Tru64 UNIX, DEC OSF/1, Digital UNIX 4.0 and 5.1
unixware SCO|Caldera UnixWare 7.1.4
uw SCO|Caldera UnixWare 7.1.4

If you have an earlier version of a dialect not named in the above
list, lsof may still work on your system. I have no way of testing
that myself. Try configuring for the named dialect -- e.g., if
you're using Solaris 2.1, try configuring for Solaris 2.5.1.

After you have configured lsof for your UNIX dialect and have
selected options
via the Customize script (See the The Customize
Script section.) , use the make command to build lsof -- e.g.,

```
$ make
```

Other Configure Script Options
==========

There are three other useful options to the Configure script besides
the dialect abbreviation:

-clean may be specified to remove all traces of
a dialect configuration, including the
Makefile, symbolic links, and library files.

-h may be specified to obtain a list of
-help Configure options, including dialect
abbreviations.

-n may be specified to stop the Configure
script from calling the Customize and
Inventory scripts.

Caution: -n also suppresses the AFSConfig
step.

Environment Variables

Lsof configuration, building, and execution may be affected by
environment variable settings. See the Definitions That Affect
Compilation section in the 00PORTING file, the General Environment
Variables section in the 00XCONFIG
file, the Dialect-Specific
Environment Variables section in the 00XCONFIG file, and the
Environment Variables Affecting the Configure Script section of
this file for more information.

Note in the General Environment Variables section of the 00XCONFIG
file that there are five environment variables that can be used to
pre-define values in lsof's -v output: LSOF_BLDCMT, LSOF_HOST,
LSOF_LOGNAME, LSOF_SYSINFO, and LSOF_USER.

Security

If the symbol HASSECURITY is defined, a security mode is enabled,
and lsof will allow only the root user to list all open files.
Non-root users may list only open files whose processes have the
same user ID as the real user ID of the lsof process (the one that
its user logged on with).

However, if HASNOSOCKSECURITY is also defined, anyone may list
anyone else's open socket files, provided their listing is enabled
with the "-i" option.

Lsof is distributed with the security mode disabled -- HASSECURITY
is not defined. (When HASSECURITY is not
defined, the definition
of HASNOSOCKSECURITY has no meaning.) You can enable the security
mode by defining HASSECURITY in the Makefile or in the machine.h
header file for the specific dialect you're using -- e.g.
dialects/aix/machine.h.

The Customize script, run by Configure when it has finished its
work, gives you the opportunity to define HASSECURITY and
HASNOSOCKSECURITY. (See the The Customize Script section.)

The lsof -h output indicates the state HASSECURITY and HASNOSOCKSECURITY
had when lsof was built, reporting:

"Only root can list all files;"
if HASSECURITY was defined and HASNOSOCKSECURITY wasn't
defined;

"Only root can list all files, but anyone can list socket files."
if HASSECURITY and HASNOSOCKSECURITY were both defined;

"Anyone can list all files;"
if HASSECURITY wasn't defined. (The definition of
HASNOSOCKSECURITY doesn't matter when HASSECURITY isn't
defined.)

You should carefully consider the implications of using the default
security mode.
When lsof is compiled in the absence of the
HASSECURITY definition, anyone who can execute lsof may be able to
see the presence of all open files. This may allow the lsof user
to observe open files -- e.g., log files used to track intrusions
-- whose presence you would rather not disclose.

As distributed, lsof writes a user-readable and user-writable device
cache file in the home directory of the real user ID executing
lsof. There are other options for constructing the device cache file
path, and they each have security implications.

The 00DCACHE file in the lsof distribution discusses device cache
file path construction in great detail. It tells how to disable
the various device cache file path options, or how to disable the
entire device cache file feature by removing the HASDCACHE definition

from the dialect's machine.h file. There is also information on
the device cache file feature in the 00FAQ file. (The 00DCACHE
and 00FAQ files are part of the lsof distribution package.)

The
Customize script, run by Configure after it has finished its
work, gives you the opportunity to change the compile-time options
related to the device cache file. (See The Customize Script
section.)

Since lsof may need setgid or setuid-root permission (See the Setgid
Lsof Dialects and Setuid-root Lsof Dialects sections.), its security
should always be viewed with skepticism. Lest the setgid and
setuid-root permissions allow lsof to read kernel name list or
memory files, declared with the -k and -m options, that the lsof
user can't normally access, lsof uses access(2) to establish its
real user's authority to read such files when it can't surrender
its power before opening them. This change was added at the
suggestion of Tim Ramsey.

Lsof surrenders setgid permission on most dialects when it has
gained access to the kernel's memory devices. There are exceptions
to this rule, and some lsof implementations need to run setuid-root.
(The Setgid Lsof Dialects and Setuid-root Lsof
Dialects sections
contains a list of lsof implementations and the permissions
recommended in the distribution's Makefiles.)

The surrendering of setgid permission is controlled by the WILLDROPGID
definition in the dialect machine.h header files.

In the end you must judge for yourself and your installation the
risks that lsof presents and restrict access to it according to
your circumstances and judgement.

Run-time Warnings

Lsof can issue warning messages when it runs -- e.g., about the
state of the device cache file, about an inability to access an
NFS file system, etc. Issuance of warnings are enabled by default
in the lsof distribution.

Issuance or warnings may be disabled by default by defining
WARNINGSTATE in the dialect's machine.h. The Customize script may
also be used to change the default warning message issuance state.
(See The Customize Script section.)

The ``-w'' option description of the ``-h'' option (help) output
will indicate the default warning
issuance state. Whatever the
state may be, it can be reversed with ``-w''.

Device Access Warnings

When lsof encounters a /dev (or /devices) directory, one of its
sub-directories, or one of their files that it cannot access with
opendir(3) or stat(2), it issues a warning message and continues.
Lsof will be more likely to issue such a warning when it has been
installed with setgid(<some group name>) permission; it won't have
trouble if it has been installed with setuid(root) permission or
is being run under the root login.

The lsof caller can inhibit or enable the warning with the -w
option, depending on the issuance state of run-time warnings. (See
the Run-time Warnings section.)

The warning messages do not appear when lsof obtains device
information from a device cache file that it has built and believes
to be current or when warning message issuance is disabled by
default. (See the "Caches -- Name and Device" section for more
information on the device
cache file.)

The lsof builder can inhibit the warning by disabling the definition
of WARNDEVACCESS in the dialect's machine.h or disable all warnings
by defining WARNINGSTATE. WARNDEVACCESS is defined by default for
most dialects. However, some dialects have some device directory
elements that are private -- e.g., HP-UX -- and it is more convenient
for the lsof user if warning messages about them are inhibited.

Output from lsof's -h option indicates the status of WARNDEVACCESS.
If it was defined when lsof was compiled, this message will appear:

```
/dev warnings = enabled
```

If WARNDEVACCESS was not defined when lsof was compiled, this
message will appear instead:

```
/dev warnings = disabled
```

The Customize script, run by Configure after it has finished its
work, gives you the opportunity to change the WARNDEVACCESS

definition. (See The Customize Script section.)

NFS Blocks

Lsof is susceptible to NFS blocks when it tries to lstat() mounted file systems and when it does further processing -- lstat() and readlink() -- on its optional file and file system arguments.

Lsof tries to avoid being stopped completely by NFS blocks by doing the lstat() and readlink() functions in a child process, which returns the function response via a pipe. The lsof parent limits the wait for data to arrive in the pipe with a SIGALRM, and, if the alarm trips, terminates the child process with a SIGINT and a SIGKILL.

This is as reliable and portable a method for breaking NFS deadlocks as I have found, although it still fails under some combinations of NFS version, UNIX dialect, and NFS file system mount options. It generally succeeds when the "intr" or "soft" mount options are used; it generally fails when the "hard" mount option is used.

When lsof cannot kill the child process, a second timeout causes it to stop waiting for the killed child to complete. While the second timeout allows lsof to complete, it may leave behind a hung child process. Unless warnings are inhibited by default or with the -w option, lsof reports the possible hung child.

NFS block handling was updated with suggestions made by Andreas Stolcke. Andreas suggested using the alternate device numbers that appear in the mount tables of some dialects when it is not possible to stat(2) the mount points.

The -b option was added to direct lsof to avoid the stat(2) and readlink(2) calls that might block on NFS mount points and always use the alternate device numbers. If warning message issuance is enabled and you don't want warning messages about what lsof is doing, use the -w option, too.

The -O option directs lsof to avoid doing the potentially blocking operations in child processes. Instead, when -O is specified, lsof does them directly. While this consumes far less system overhead, it can cause lsof to hang, so I advise you to use -O sparingly.

Caches -- Name and Device

Robert Ehrlich suggested that lsof obtain path name components for open files from the kernel's name cache. Where possible, lsof dialect implementations do that. The -C option inhibits kernel name cache examination.

Since AFS apparently does not use the kernel's name cache, where lsof supports AFS it is unable to identify AFS files with path name components.

Robert also suggested that lsof cache the information it obtains via stat(2) for nodes in /dev (or /devices) to reduce subsequent running time. Lsof does that, too.

In the default distribution the device cache file is stored in .lsof_hostname, mode 0600, in the home directory of the login of the user ID that executes lsof. The suffix, hostname, is the first component of the host's name returned by gethostname(2). If lsof is executed by a user ID whose home directory is NFS-mounted from several hosts, the user ID's home directory may collect several device cache files, one for each host from which it was executed.

Lsof senses accidental or malicious damage to the device cache file with extensive integrity checks, including the use of a 16 bit CRC. It also tries to sense changes in /dev (or /devices) that indicate the device cache file is out of date.

There are other options for forming the device cache file path. Methods the lsof builder can use to control and employ them are documented in the separate 00DCACHE file of the lsof distribution.

Raw Sockets

On many UNIX systems raw sockets use a separate network control block structure. Display of files for applications using raw sockets -- ping, using ICMP, for example -- need special support for displaying their information. This support is so dialect-specific and information to provide it so difficult to find that not all dialect revisions of lsof handle raw sockets completely.

Other Compile-time Definitions

==========

The machine.h and dlsof.h header files for each dialect contains definitions that affect the compilation of lsof. Check the Definitions That Affect Compilation section of the 00PORTING file of the lsof distribution for their descriptions. (Also see The Customize Script section.)

The AFSConfig Script

==========

Lsof supports AFS on some combinations of UNIX dialect and AFS version. See the AFS section of this document for a list of supported combinations.

When configuring for dialects where AFS is supported, the Configure script calls the AFSConfig script to determine the location of AFS header files and the AFS version. Configure will not call AFSConfig, even for the selected dialects, unless the file /usr/vice/etc/ThisCell exists.

The AFS header file location is recorded in the AFSHeaders file; version, AFSVersion. Once these values have been recorded, Configure can be told to skip the calling of AFSConfig by specifying its (Configure's) -n option.

The Inventory Script

==========

The lsof distribution contains a script, called Inventory, that checks the distribution for completeness. It uses the file 00MANIFEST in the distribution as a reference point.

After the Configure script has accepted the dialect abbreviation, it normally calls the Inventory script to make sure the distribution is complete.

After Inventory has run, it creates the file ".ck00MAN" in the top-level directory to record for itself the fact that the inventory has been check. Should Inventory be called again, it senses this file and asks the caller if another check is in order, or if the check should be skipped.

The -n option may be supplied to Configure to make it bypass the

calling of the Inventory script. (The option also causes Configure
to avoid calling the Customize script.)

The lsof power user may want to define (touch) the file ".neverInv".
Configure avoids calling the Inventory script when ".neverInv"
exists.

The Customize Script

Normally when the Configure script has finished its work, it calls
another shell script in the lsof distribution called Customize.
(You can tell Configure to bypass Customize
 with its -n option.)

Customize leads you through the specification of these important
compile-time definitions for the dialect's machine.h header file:

```
 HASDCACHE  device cache file control
    HASENVDC  device cache file environment
   variable name
    HASPERSDC  personal device cache file path
   format
    HASPERSDCPATH name of environment variable that
   provides an additional component
   of the personal device cache file
   path
    HASSYSDC  system-wide device cache file path
 HASKERNIDCK  the build-time to run-time kernel
   identity check
 HASSECURITY  the security option
 HASNOSOCKSECURITY the open socket listing option whe
   HASSECURITY is defined
 WARNDEVACCESS  /dev (or /devices) warning message
   control
 WARNINGSTATE  warning message issuance state
```

The Customize script accompanies its prompting for entry of new
values for these definitions with brief descriptions of each of
them. More information on these definitions may be found in this
file or
 in the 00DCACHE and 00FAQ files of the lsof distribution.

You don't need to run Customize after Configure. You can run it
later or you can edit machine.h directly.

The -n option may be supplied to Configure to make it bypass the

calling of the Customize script. (The option also causes Configure
to avoid calling the Inventory script.)

The lsof power user may want to define (touch) the file ".neverCust".
Configure avoids calling the Customize script when ".neverCust"
exists.

Customize CAUTION: the Customize script works best when it is
applied to a newly configured lsof source base -- i.e., the machine.h
header file has not been previously modified by the Customize
script. If you have previously configured lsof, and want to rerun
the Customize script, I recommend you clean out the previous
configuration and create a new one:

```
 $ Configure -clean
 $ Configure <dialect_abbreviation>
 ...
 Customize in response to the Customize script prompts.
```

Cautions
========

Lsof is a tool that
 is closely tied to the UNIX operating system
version. It uses header files that describe kernel structures and
reads kernel structures that typically change from OS version to
OS version, and even within a version as vendor patches are applied.

DON'T TRY TO USE AN LSOF BINARY, COMPILED FOR ONE UNIX OS VERSION,
ON ANOTHER. VENDOR PATCHES INFLUENCE THE VERSION IDENTITY.

On some UNIX dialects lsof versions may be even more restricted by
architecture type.

The bottom line is use lsof where you built it. If you intend to
use a common lsof binary on multiple systems, make sure all systems
run exactly the same OS version and have exactly the same patches.

Warranty
========

Lsof is provided as-is without any warranty of any kind, either
expressed or implied, including, but not limited to, the implied
warranties of merchantability and fitness for a particular purpose.
The entire risk as to the quality and performance of lsof is with
you. Should lsof prove defective, you assume the cost

of all
necessary servicing, repair, or correction.

License
=======

Lsof has no license. Its use and distribution are subject to these terms and conditions, found in each lsof source file. (The copyright year in or format of the notice may vary slightly.)

```
/*
 * Copyright 2002 Purdue Research Foundation, West Lafayette,
 * Indiana 47907.  All rights reserved.
 *
 * Written by Victor A. Abell
 *
 * This software is not subject to any license of the American
 * Telephone and Telegraph Company or the Regents of the
 * University of California.
 *
 * Permission is granted to anyone to use this software for
 * any purpose on any computer system, and to alter it and
 * redistribute it freely, subject to the following
 * restrictions:
 *
 * 1. Neither the authors nor Purdue University are responsible
 *    for any consequences of the use of this software.
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 * 2. The origin of this software must not be misrepresented,
 *    either by explicit claim or by omission.  Credit to the
 *    authors and Purdue University must appear in documentation
 *    and sources.
 *
 * 3. Altered versions must be plainly marked as such, and must
 *    not be misrepresented as being the original software.
 *
 * 4. This notice may not be removed or altered.
 */
```

Bug Reports
===========

Now that the obligatory disclaimer is out of the way, let me hasten to add that I accept lsof bug reports and try hard to respond to them. I will also consider and discuss requests for new features, ports to new dialects, or ports to new OS versions.

PLEASE DON'T SEND BUG REPORTS ABOUT LSOF TO THE UNIX DIALECT OR DIALECT OPTION VENDOR.

At worst such bug reports will confuse the vendor; at best, the vendor will forward the bug report to me.

PLEASE DON'T SEND BUG REPORTS ABOUT LSOF BINARIES BUILT OR DISTRIBUTED BY SOMEONE ELSE, BECAUSE I CAN'T SUPPORT THEM.

Before you send me a bug report,
please do these things:

* Make sure you try the latest lsof revision.

  + Download the latest revision from:

  ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof

  + Verify the signatures of what you have downloaded;

  + While connected to lsof.itap.purdue.edu, check for patches:

  ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/patches

  + If patches exist, install them in the latest revision
  you just downloaded. Then build the latest revision and
  see if it fixes your bug.

* If you're having trouble compiling lsof with gcc, try the
  UNIX dialect vendor's compiler. I don't have access to gcc on
  all test systems, so my support for it is hit-and-miss, and so
  is my ability to respond to gcc compilation problem reports.

* Check the lsof frequently asked questions file, 00FAQ,
  to see if there's a question and answer relevant to your
  problem.

* Make sure you're running the lsof you think you are
by
  checking the path to it with which(1). When in doubt, use an
  absolute path to lsof. Make sure that lsof binary has
  sufficient permissions to do what you ask, including internal
  permissions given it (e.g., restrictions on what files lsof may
  report for whom) during its build.

When you send a bug report, make sure you include output from your running of lsof's Configure script. If you were able to compile a

running lsof, please also include:

* Output from which(1) that shows the absolute path to the lsof binary in question;

* Output from running lsof with its -h and -v options at lsof's absolute path;

* Output from "ls -l" directed to lsof's absolute path.

If you weren't able to compile a running lsof, please send me: the compiler error output; identification of the lsof revision you're using (contents of the lsof version.c file); identification of your system (full uname output or output from whatever other tool identifies the system); and compiler identification (e.g., gcc -v output).

Either set of output will help me understand how lsof was configured and what UNIX dialect and lsof revision is involved.

Please send all bug reports, requests, etc. to me via e-mail at <abe@purdue.edu>. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

The 00FAQ File

The lsof distribution contains an extensive frequently asked questions file on lsof features and problems. I recommend you consult it before sending me e-mail. Use your favorite editor or pager to search 00FAQ -- e.g., supplying as a search argument some fixed text from an lsof error message.

The lsof-l Mailing List

Information about lsof, including notices about the availability of new revisions, may be found in mailings of the lsof-l listserv. For more information about it, including instructions on how to subscribe, read the 00LSOF-L file of the lsof distribution.

Field Output Example Scripts

Example AWK and Perl 4 or 5 scripts for post-processing lsof field output are locate in the scripts sub-directory of the lsof distribution. The scripts sub-directory contains a 00README file with information about the scripts.

Field Output C Library

The lsof test suite (See "Testing Lsof."), checks basic lsof operations using field output. The test suite has its own library of C functions for common test program operations, including processing of field output. The library or selections of its functions could be adapted for use by C programs that want to process lsof field output. See the library in the file LTlib.c in the tests/ sub-directory

Testing Lsof

Lsof has an automated test suite in the tests/ sub-directory that can be used to test some basic lsof features -- once lsof has been configured and made. Tests are arranged in three groups: basic tests that
should run on all dialects; standard tests that should run on all dialects; and optional tests that may not run on all dialects or may need special resources to run. See 00TEST for more information.)

CAUTION!!! Before you attempt to use the test suite make sure that the lsof you want to test can access the necessary kernel resources -- e.g., /dev/mem, /dev/kmem, /proc, etc. Usually you want to test the lsof you just built, so this is an important check. (See 00TEST.)

To run the basic and standard tests, using the lsof in the parent directory of tests/, do this:

```
 $ cd tests
 $ make test
   or $ make std
   or $ make standard
```

The basic and standard tests may be run as silently as possible, using the lsof in the parent directory of tests/, with:

```
 $ cd tests
```

```
$ make auto
```

This is the "automatic" test mode, designed for use by scripts that build lsof. The caller is expected to test the make exit code to determine if the tests succeeded. The caller should divert standard output
and standard error to /dev/null to suppress make's error exit message.

The optional tests may be run, using the lsof in the parent directory of tests/, with:

```
$ cd tests
$ make opt
  or $ make optional
```

It's possible to excute individual tests, too. See the 00TEST file of this distribution for more informaiton on the tests, what they do, and how to run and possibly customize each test.

It's possible to run the tests, using an lsof other than the one in the parent directory of /tests, too. See 00TEST for information about using the LT_LSOF_PATH environment variable to do that.

==========
Dialect Notes
==========

AFS
===

Lsof recognizes AFS files on the following combinations of UNIX dialect and AFS versions:

AIX 4.1.4 (AFS 3.4a)
Linux 1.2.13 (AFS 3.3)
NEXTSTEP 3.2 (AFS 3.3) (untested on recent lsof revisions)
Solaris 2.6 (AFS 3.4a)
Ultrix 4.2 RISC (AFS 3.2b) (no longer available)

Lsof has not been tested under other combinations -- e.g. HP-UX 10.10 and AFS 3.4a
-- and probably won't even compile there. Often when a UNIX dialect version or AFS version changes, the new header files come into conflict, causing compiler objections.

AIX
===

Specify the aix Configure abbreviation for AIX 4.1.[45], 4.2[.1], 4.3[.123], 5L, and 5.[123].

Specify aixgcc on AIX above 4.1 to use the gcc compiler. (Gcc can't be used to compile lsof on AIX 4.1 and below because of kernel structure alignment differences between it and xlc.) Gcc results sometimes depend on the version of the gcc compiler that is used.

Compilation of lsof with gcc on AIX 4.3[.123], 5L, and 5.[123] has been sparsely tested with varying degrees of success: it has been reported to succeed on AIX 4.3.3 and 32 bit Power AIX 5.1; to fail on ia64 AIX 5.1 and 64 bit Power AIX 5.1; and to succeed on 32 and 64 bit Power AIX 5.2. Lsof compilation with gcc hasn't been tested on AIX 5.3.

At revision 4.61 and above lsof is configured and built to match the bit size of the kernel of Power architecture
AIX 5.1 systems. Lsof
binaries built for 32 and 64 bit kernels are not interchangeable. See 00FAQ for more information.

The Configure script uses /usr/bin/oslevel to determine the AIX version for AIX less than 5 and ``uname -rv'' for AIX 5 and higher. If /usr/bin/oslevel isn't executable on AIX less than 5, the Configure script issues a warning message and uses ``uname -rv'' to determine the AIX version.

When Configure must use ``uname -rv'' on AIX less than 5 to determine the AIX version, the result will lack a correct third component -- e.g., the `4' of ``4.1.4''. If your AIX less than 5 system lacks lacks an executable oslevel, I suggest you edit the Configure-produced Makefile and complete the _AIXV definition in the CFGF string.

By default lsof avoids using the kernel's readx() function, causing it to be unable to report information on some text and library file references. The ``-X'' option allows the lsof user to ask for the information readx() supplies.

Lsof avoids
readx() to avoid the possibility of triggering a kernel
problem, known as the Stale Segment ID kernel bug. Kevin Ruderman reported this bug to me. The bug shows up when the kernel's dir_search() function hangs, hanging the application process that called it so completely that the application process can neither be killed nor stopped. The hang is the consequence of another

process (perhaps lsof) making legitimate use of the kernel's readx()
function to access the kernel memory that dir_search() is examining.
IBM has indicated they have no plans to fix the bug.

A fuller discussion of this bug may be found in the 00FAQ file of
the lsof distribution. There you will find a description of the
Stale Segment ID bug, the APAR on it, and a discussion of the
sequence of events that exposes it.

I added the ``-X" function so you can tell lsof to use readx(),
but if you use ``-X", you should be alert to its possibly serious
side effects. Although readx() is normally disabled, its state
is
controlled with the HASXOPT, HASXOPT_ROOT, and HASXOPT_VALUE
definitions in dialects/aix/machine.h, and you can change its
default state by changing those definitions. You can also change
HASXOPT_ROOT via the Customize script.

You can also compile lsof with readx() use permanently enabled or
disabled -- see the comments about the definitions in the
dialects/aix/machine.h header file. You may want to permanently
disable lsof's use of readx() if you plan to make lsof publicly
executable. You can also restrict -X to processes whose real UID
is root by defining HASXOPT_ROOT.

I have never seen lsof cause the Stale Segment ID bug to occur and
haven't had a report that it has, but I believe there is a possibility
it could.

AFS support for AIX was added with help help from Bob Cook and Jan
Tax who provided test systems.

Henry Grebler and David J. Wilson helped with lsof for AIX 4.2.

Bill Pemberton provided an AIX 4.3 test system. Andrew Kephart
and Tom Weaver provided AIX 4.3 technical
assistance. Niklas
Edmundsson did 4.3.1 testing. Doug Crabill provided an AIX 4.3.2
test system. Jeff W. Stewart provided an AIX 4.3.3 test system.

The SMT file type for AIX 4.1.[45], 4.2[.1], and 4.3[.12] is my
fabrication. See the 00FAQ file more information on it.

Loc Le and Nasser Momtaheni of IBM provided test systems for AIX 5L and
5.1. Lsof for AIX 5L and 5.1 needs setuid-root permission to process
the -X option on systems whose architecture type is ia64.

Dale Talcott of Purdue provided AIX 5.1 and 5.2 test systems. Dale and

John Jackson of Purdue provided an AIX 5.3 test system.

Apple Darwin

The Apple Darwin port was provided by Allan Nathanson for version 1.2. Allan also arranged for access to a test system for maintenance and regression testing. Dale Talcott provided a test system, too.

Allan supplied patches for updates to 1.4, 5.x, 6.x, 7.x and 8.x.

BSDI BSD/OS

As of lsof revision 4.77 support for BSDI BSD/OS has been discontinued.

Lsof revision 4.76 with BSDI BSD/OS support may be found on lsof.itap.purdue.edu in pub/tools/unix/lsof/src.

DEC OSF/1, Digital UNIX, Tru64 UNIX

Robert Benites, Dean Brock, Angel Li, Dwight McKay, Berkley Shands, Ron Young and Steve Wilson have kindly provided test systems. Jeffrey Mogul has provided technical assistance. Dave Morrison and Lawrence MacIntyre did Digital UNIX V3.2 testing.

Lsof supports the ADVFS/MSFS layered file system product. Lsof can locate all the open files of an ADVFS/MSFS file system when its path is specified, provided the file system is listed in /etc/fstab with an ``advfs'' type. (This /etc/fstab caveat applies only to Digital UNIX 2.0.) At Digital UNIX 4.0 and Tru64 UNIX, using code provided by David Brock, lsof 4.20 and above can locate ADVFS file paths.

Testing of lsof on DEC OSF/1 and Digital UNIX 4.0 ended with lsof revision 4.74. Hence, the lsof documentation has dropped the claim that it works there.

For a distribution of lsof 4.74 that was tested on DEC OSF/1 and Digital UNIX 4.0, check pub/tools/unix/lsof/OLD/src on the lsof ftp home, lsof.itap.purdue.edu.

Lsof revisions past 4.74 have only been tested on Tru64 UNIX 5.1.

FreeBSD
=======

Bill Bormann of Purdue University provided access to several FreeBSD test systems. Ade Barkah, John Clear, Ralph Forsythe, Michael Haro, Kurt Jaeger, and William McVey have also provided FreeBSD test systems.

The FreeBSD distribution header files are augmented by header files in the dialects/freebsd/include directory.

Larry Rosenman maintains the lsof FreeBSD port package.

HP-UX
=====

Lsof has two HP-UX bases: /dev/kmem for HP-UX 11.0 and earlier; and PSTAT for HP-UX 11.11 and later. The lsof Configure script will pick the appropriate base.

To use the CCITT x.25 socket support for HP-UX, you must have the x.25 header files in /etc/conf/x25

Pasi Kaara helped with the HP-UX port, especially with its CCITT x.25 socket support.

Richard
Allen provided HP-UX 10.x and 11.x test systems, as did Mark Bixby, and Elias Halldor Agustsson. Marc Winkler helped test the 10.20 port. Richard J. Rauenzahn provided a 64 bit HP-UX 11 test system and an HP-UX 11.11 development system.

AFS support for HP-UX was added thanks to help from Chaskiel Moses Grundman, who provided a test system.

The /dev/kmem-based HP-UX 11.00 support is extremely fragile. It depends on privately developed kernel structure definitions. (See .../dialects/hpux/hpux11 for the header files making the definitions.) Those header files and their definitions will not be updated by HP-UX 11.00 patches, making it likely that any patch changing a kernel structure critical to lsof will break lsof in some way.

It's possible to build a 64 bit lsof for 64 bit HP-UX 11.00 with gcc, but you must have a gcc compiler capable of producing 64 bit executables. See the 00FAQ file for more information.

The PSTAT-based lsof for HP-UX 11.11 and later is much more solid.

I
am indebted to the vision of HP for providing an lsof kernel API
through the PSTAT implementation. Specifically I appreciate the
help of HP staff members Carl Davidson, Louis Huemiller, Rich
Rauenzahn, and Sailu Yallapragada that made PSTAT-based HP-UX lsof
possible.

IPv6
====

Lsof has IPv6 support that has been tested for these UNIX dialects:
AIX 4.3.x; Apple Darwin 5.[12] and 6.0; the INRIA and KAME FreeBSD IPv6
implementations; PSTAT-based HP-UX; /proc-based Linux; the INRIA and
KAME NetBSD implementations; and Solaris 8 and 9. Lsof has IPv6
support that hasn't been tested for: OpenBSD (KAME); OpenUNIX 8; Tru64
Unix 5.[01]; and UnixWare 7.1.[34].

Please let me know if your UNIX dialect has IPv6 support and I'll
see if it can be supported by lsof.

Linux
=====

Tim Korb, Steve Logue, Joseph J. Nuspl Jr., and Jonathan Sergent
have provided Linux test systems.

Michael Shields helped add and test automatic handling of ELF/COFF
form names in /System.map, Marty Leisner and Keith
Parks have helped
test many lsof revisions. Marty has provided valuable suggestions,
Linux hints, and code, too.

The 00FAQ file gives some Linux tips, including information on
coping with system map file problems.

To determine the state of the Linux 2.1.x C library lseek() function,
the lsof Configure script runs a test program that must have
permission to read /dev/kmem. The test determines if the lseek()
function properly handles kernel offsets, which appear to be negative
because their high order bit is set. If the lseek() test reveals
a faulty lseek(), Configure activates the use of a private lseek()
function for kernel offset positioning. See the Linux problems
section of the 00FAQ file of the lsof distribution for more
information.

NetBSD

Greg Earle and Paul Kranenburg have assisted with the NetBSD ports.
Paul has provided test systems. Ray Phillips provided a NetBSA
Alpha test system. Andrew Brown also provided a test system.

The NetBSD dialect version of lsof
 is compiled using the dialect
sources it shares with OpenBSD in the n+obsd dialect sub-directory.

NEXTSTEP and OPENSTEP

Virtual memory header files that allow lsof to display text references
were derived from the contents of /usr/include/vm of NEXTSTEP 2.0.
NeXT did not ship the virtual memory header files with other NEXTSTEP
or OPENSTEP versions.

You may use the RC_FLAGS environment variable to declare compiler
options outside the Makefile. A common use of this variable is to
define the architecture types to be included in a "fat" executable.
See the comments in dialects/next/Makefile for an example.

OpenBSD

David Mazieres has provided OpenBSD test systems. The OpenBSD
dialect version of lsof is compiled using the dialect sources it
shares with NetBSD in the n+obsd dialect sub-directory.

Kenneth Stailey has provided OpenBSD testing and advice.

John Dzubera (Zube) reports, "lsof 4.33 compiles and runs on OpenBSD
2.3 for the pmax architecture
 (decstation 3100)."

I have not tested lsof on OpenBSD 3.8, but David Mazieres reports
revision 4.76 worked on OpenBSD 3.8.

Pyramid DC/OSx and Reliant UNIX

As of lsof revision 4.52 support for all Pyramid dialects has been
discontinued. Lsof revision 4.51 with Pyramid support may be

obtained upon request. Send the request to abe@purdue.edu.

These two UNIX dialects are very similar and share dialect-specific source files from the pyramid sub-directory.

The Reliant Unix Pyramid C compiler issues warning messages that I haven't found a convenient way to suppress. You can ignore warning messages about casts and conversions that lose bits. The message "warning: undefining __STDC__" is intentionally caused by the lsof MkKernOpts configuration script to suppress warning messages about cast and conversion problems in standard system header files, such as <stdio.h> and <string.h>.

Bruce Beare and Kevin Smith provided test systems.

Caldera OpenUNIX

Larry
 Rosenman provided an OpenUNIX 8 test system. Matthew Thurmaier provided technical assistance, along with these people from Caldera: Jack Craig, Robert Lipe, and Bela Lubkin.

Robert Lipe supplied changes to lsof for OpenUNIX 8.0.1. Those changes were also incorporated in UnixWare 7.1.3 when it became the release name for OpenUNIX 8.0.1.

Support for lsof on OpenUNIX ended at lsof revision 4.74. The last lsof revision, 4.74, tested on OpenUNIX, may be found at the lsof "home" ftp site, lsof.itap.purdue.edu, in pub/tools/unix/lsof/OLD/src.

SCO OpenServer

Dion Johnson, Bela Lubkin, and Nathan Peterson of SCO gave me copies of SCO OpenServer and the SCO OpenServer Development System 3.0 and provided technical advice for the lsof port.

Hugh Dickins, Bela Lubkin, Craig B. Olofson, and Nathan Peterson provided version 5.0 and gave technical advice for porting lsof to it. Bela provided the 5.0.4 changes. D. Chris Daniels provided a 5.0.4 test system,
 Lee Penn provided one for 5.0.5, and John Dubois for 5.0.6.

The <netdb.h> header file was accidentally omitted from some SCO

OpenServer Development System releases. The Configure script will sense its absence and substitute an equivalent from the BSD distribution. The BSD <netdb.h> and the <sys/cdefs.h> header file it includes are located in the dialects/os/include sub-directory tree.

To compile lsof from its distribution sources you must have the TCP/IP and NSF headers in /usr/include. While those are optional OpenServer packages, I have access to no system that doesn't have them, so I'm unable to build lsof for such a configuration. However, it should be possible to modify the lsof Configure script and sources so lsof would compile and work without those optional packages.

If you have an OpenServer system configured without the TCP/IP and NFS packages, and want to tackle the job of building lsof for it, contact me via e-mail at <abe@purdue.edu>. I'll identify the Configure
script, header file, and source file changes you will need to make. (Caution: this is not a simple task, or I would have already done it.)

The optional osrgcc and scogcc Configure abbreviations construct Makefiles for compiling lsof with gcc.

The UnixWare 7.1.4 sources are used for OpenServer Release 6.0.0. Hence there is a separate Configure abbreviation for it, "osr6". Richard of SCO provided a test system and technical assistance.

SCO|Caldera UnixWare

D. Chris Daniels, John Hughes, Ken Laing, Andrew Merril, Lee Penn, and Matthew Thurmaier provided test systems. Bela Lubkin provided technical assistance. Larry Rosenman provided 7.1.[34] test systems.

Solaris 2.x, 7, 8, 9 and 10

SEE THE CAUTIONS SECTION OF THIS DOCUMENT.

The latest Solaris revision of lsof 4 might work under Solaris 2.[1-4] and 2.5[.1] and 7 but hasn't been tested there. I have no test systems for those Solaris versions.

Lsof will compile with gcc and the Sun C compiler

under Solaris.
If you want to use the Sun compiler, use the solariscc Configure abbreviation. If you use a gcc version less than 2.8 on Solaris, make sure the gcc-specific includes have been updated for your version of Solaris -- i.e., run the gcc fixincludes script.

Solaris 7, 8, 9 and 10 support for 64 bit kernels depends on a Sun WorkShop or Forte C compiler version that supports the "-xarch=v9" flag -- usually 5.0 or greater. Gcc versions 2.95 and above *may* be configured and built for 64 bit support, but it takes some extra work, the resulting compiler may be fragile, and the gcc developers discourage it. I've built 64 bit capable gcc compilers for Solaris 7, 8 and 9 from gcc versions 2.95 through 3.0.1 and produced working lsof executables with them. More information on 64 bit gcc for Solaris may be found in the 00FAQ file.

Solaris 10 ZFS support is questionable, because Sun does not distribute the ZFS kernel structure definition header files. The lsof Configure script
and source code use some risky work-arounds. ZFS file system support was made possible with help from Horst Scheuermann.

Dave Curry and Steve Kirsch provided resources for Solaris 2.x ports. Casper Dik and Gerry Singleton consulted and provided valuable assistance.

Henry Katz, Joseph Kowalski, Charles Stephens, Mike Sullivan, and Mike Tracy provided technical assistance.

AFS support was added to Solaris lsof with help from Curt Freeland, Heidi Hornstein, Michael L. Lewis, Terry McCoy, Phillip Moore, and Sushila R. Subramanian.

Casper Dik provided valuable assistance for the Solaris 8 support.

Sun has graciously provided me access to BETA versions of Solaris 2.5, 2.6, 7, 8, and 9.

John Dzubera provided Solaris 7 and 8 test systems.

Mike Miscevic provided Solaris 10 test systems.

Ultrix

As of lsof revision 4.52 support for Ultrix is no longer available, because I no longer have an Ultrix test system.

Terry Friedrichsen, Dwight McKay, and Jeffrey Mogul helped me
with
this port.

DECnet support was added to Ultrix lsof with the help of John
Beacom, who kindly provided a test system. The Configure script
decides that DECnet support is available if /usr/lib/libdnet.a and
/usr/include/netdnet/dn.h exist and are readable.

Veritas VxFS and VxVM
==========

Lsof supports some versions of Veritas VxFS and VxVM on some UNIX
dialects. Consult the lsof Configure script for the specific
dialect, and consult the lsof dialect-specific source files for
the UNIX dialect of interest. Veritas support will usually be
found in a source file named dnode[1-9].c.

Since Veritas rarely has a version number that can be extracted
with shell commands, lsof doesn't use it. Instead, when lsof
supports Veritas, the Configure script will form compile-time
definitions starting with HASVXFS. Check the lsof 00PORTING
documentation file for more information.

Lsof Veritas support requires that the supporting Veritas header
files be installed -- e.g., in /usr/include/sys/fs.
(The location
will depend in the dialect's header file conventions.)

Some information on lsof support for Veritas extensions may be
found in the lsof 00DIST file. (The ChangeLog file points to
00DIST.)

Chris Kordish and Andy Thomas have provided Solaris VxFS test
systems.

==========
User-contributed Dialect Support
==========

There are some user-contributed dialect versions of lsof; more
information on them can be found at:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/contrib

Check the 00INDEX file there for details.

==========
Dialects No Longer Supported
==========

Because I don't have access to test systems, these UNIX dialects
are no longer supported by lsof:

CDC EP/IX
/dev/kmem-based Linux
MIPS RISC/os
Motorola V/88
Pyramid DC/OSx
Pyramid Reliant UNIX
Sequent DYNIX
SGI IRIX
SunOS 4.x
Ultrix
UnixWare below 7.0

Remnants of the support lsof once provided for these
dialects may
be found in:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/OLD/dialects

==========
Installing Lsof
==========

The distributed Makefiles do not have actions that will install
lsof. I've come to the conclusion there is no standard for installing
lsof or its man page, so I no longer distribute make rules for
installing them. You should adjust the Makefile for your local
preferences.

The Makefile does have an install rule that will cause lsof to
compile by virtue of its dependency clause. Some Makefiles also
have a dependency that causes the production of a man page that is
ready to install. However, the actions of the install rule will
not cause the lsof executable or its man page to be installed in
any UNIX system-wide directory.

Instead, after the compilation and optional man page production
are completed, the install rule will produce a brief description

of what actions you might add to the install rule. The description will suggest the possible modes, ownerships, permissions, and destinations your install rule might employ to install the lsof executable and man page.

As you form your install rule, keep in mind that lsof usually needs some type of special permission to do its job. That may be permission to read memory devices such as /dev/kmem, /dev/mem, or /dev/swap, or it may be authorization to read entries in the /proc file system.

Memory device access can usually be provided by setting the modes of the lsof executable so that it's effective group identifier when it runs is the same as the group that has permission to read the memory devices -- i.e., it is setgid-group. The privileged group is usually kmem, sys, or system.

Don't overlook using ACLs -- e.g., on AIX or Solaris 8 -- to give lsof permission to access memory devices. ACLs, coupled to a separate group like kmem, can be safer than giving lsof setgid authorization to a commonly used system group.

When lsof needs to read /proc file system entries, it must be installed with modes that make its effective user identifier root when it runs -- i.e., it must be setuid-root. If lsof must be installed setuid-root (only the AIX 5L, PSTAT-based HPUX, and /proc-based Linux, ports need such power.), then access to memory devices is automatic (or not needed in the case of /proc-based Linux).

Your choice of permissions for lsof may also be affected by your desire to allow anyone to use it or your need to restrict its usage to specific individuals. You will have to be guided by local policy and convention in this case.

The next two sections, Setgid Lsof Dialect Versions and Setuid-root Lsof Dialect Versions, list recommended install permissions.

The system directory where you install the lsof executable is also open to choice. A traditional place for a tool like lsof is /usr/local/etc, but recent changes in directory structure organization suggest that somewhere in /opt may be more suitable.

Bear one other factor in mind when choosing a location for the lsof executable -- it usually is a shared executable, requiring access to shared libraries. Thus, locations like /sbin or /usr/sbin are

probably unsuitable.

Once you've chosen a location for the executable you may find that
the location for the man page follows -- e.g., if the executable
goes in /usr/local/etc, then the man page goes in /usr/local/man.
If the executable location doesn't imply a location for the man
page, you'll have to let local custom guide you.

Setuid-root Lsof Dialect Versions
==========

These dialect versions should be installed with setuid-root
permission -- i.e., the lsof binary should be owned by root and
its setuid execution bit (04000) should be set.

AIX 5L and above for full use of the -X option
Apple Darwin 8.x for Power Macintosh systems
PSTAT-based HP-UX 11.11 and 11.23
/proc-based Linux (generally 2.1.72 and above)

Setgid Lsof Dialect Versions
==========

These dialect versions should be installed
with setgid permission,
owned by the group that can read kernel memory devices such as
/dev/drum, /dev/kmem, /dev/ksyms, /dev/mem, /dev/swap. ACLs may
be another mechanism (e.g., under AIX or Solaris 8) you can use to
grant read permission to the kernel memory devices.

AIX 4.1.[45], 4.2[.1], and 4.3[.123]
Apple Darwin 7.x for Power Macintosh systems
DEC OSF/1, Digital UNIX, Tru64 UNIX 2.0, 3.2, 4.0, and 5.[01]
FreeBSD 2.1.6, 2.2[.x], 3.x, 4.x, 5.x, [6789].x and 1[012].x
NetBSD 1.[456], 2.x and 3.x
NEXTSTEP 3.[13]
OpenBSD 2.[89] and 3.[0-9]
OPENSTEP 4.x
Caldera OpenUNIX 8
SCO OpenServer 5.0.[46]
SCO UnixWare 7.0 and 7.1.[0134]
Solaris 2.6, 8, 9 and 10
Ultrix 4.2 (no longer available)

==========
Porting lsof 4 to a New UNIX Dialect

==========

If you're brave enough to consider this, look at the 00PORTING file. Please contact me before you start. I might be able to help you or even do the port myself.

Don't overlook
the contrib/ directory in pub/tools/unix/lsof on my ftp server, lsof.itap.purdue.edu. It contains user-contributed ports of lsof to dialects I don't distribute, because I can't test new revisions of lsof on them.

==========
Quick Start to Using lsof
==========

For information on how to get started quickly using lsof, consult the 00QUICKSTART file of the lsof distribution. It cuts past the formal density of the lsof man page to provide quick examples of using lsof to solve common open file display problems.

==========
Cross-configuring Lsof
==========

Using environment variables it is possible to Configure (and possibly build) lsof for one UNIX dialect on a different one -- e.g., you are running Configure on a Linux 2.3 system and you want to Configure and build lsof for Linux 2.4.

See the 00XCONFIG file of the lsof distribution for a discussion of how to do this.

==========
Environment
Variables Affecting the Configure Script
==========

Configure script actions can be modified by introducing values to the script via environment variables. In many cases the environment variable values take the place of test operations the Configure script makes.

For more information on environment variables that can affect Configure, consult the 00XCONFIG file of the lsof distribution.

See the General Environment Variables sections for descriptions of
ones that affect all dialects. Consult the Dialect-Specific
Environment Variables section for ones that might affect the dialect
you are trying to configure.

Vic Abell <abe@purdue.edu>
February 14, 2018

Found in path(s):
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/00README
No license file was found, but licenses were detected in source scan.

```
/*
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*    misrepresented as being the original software.
*
*
 4. This notice may not be removed or altered.
*/
/*
* GetOpt() -- Local get option
*
* Borrowed from lsof's main.c source file.
*
* Liberally adapted from the public domain AT&T getopt() source,
* distributed at the 1985 UNIFORM conference in Dallas
*
* The modifications allow `?' to be an option character and allow
```

```
* the caller to decide that an option that may be followed by a
* value doesn't have one -- e.g., has a default instead.
*/
```

Found in path(s):
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/tests/LTlib.c
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*/
/* Extended regular expression matching and search library,
  version 0.12.
  (Implements POSIX draft P1003.2/D11.2, except for some of the
  internationalization features.)
  Copyright (C) 1993-1999, 2000 Free Software Foundation, Inc.

  The GNU C Library is free software; you can redistribute it and/or
  modify it under the terms of the GNU Library General Public License as
  published by the Free Software Foundation; either version 2 of the
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License along with the GNU C Library; see the file COPYING.LIB. If not,
write to the Free Software Foundation, Inc., 59 Temple Place - Suite 330,
Boston, MA 02111-1307, USA. */

Found in path(s):
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/lib/regex.c
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Found in path(s):
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/dialects/aix/dnode2.c
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```
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* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
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*
* $Id: pfsnode.h,v 1.1 1993/12/12 12:26:39 davidg Exp $
*/
```

Found in path(s):
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/dialects/freebsd/include/procfs/pfsnode.h
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*/
```

Found in path(s):
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/usage.c
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/NEW/usage.c
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/lib/ckkv.c
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*    misrepresented as being the original software.
 *
* 4. This notice may not be removed or altered.
*/
```

Found in path(s):
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/dialects/hpux/pstat/dproc.c
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/dialects/hpux/pstat/dstore.c
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/dialects/hpux/pstat/dproto.h
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/dialects/hpux/pstat/machine.h
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/dialects/hpux/pstat/dfile.c
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/dialects/hpux/pstat/dlsof.h
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/dialects/hpux/pstat/dsock.c
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*/
/*
* GetOpt() -- Local get option
*
* Liberally adapted from the public domain AT&T getopt() source,
* distributed at the 1985 UNIFORM conference in Dallas
*
```

* The modifications allow `?' to be an option character and allow
* the caller to decide that an option that may be followed by a
* value doesn't have one -- e.g., has a default instead.
*/

Found in path(s):
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/main.c
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/OLD/main.c
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* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/dialects/n+obsd/dmnt.c
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/OLD/lsof.h
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/dialects/freebsd/dmnt.c
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/dialects/n+obsd/dproto.h
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/dialects/freebsd/dnode.c
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/dialects/freebsd/machine.h

* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/dialects/hpux/kmem/dproto.h
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*
/opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/dialects/aix/machine.h
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/dialects/sun/dlsof.h
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/dialects/darwin/kmem/dnode.c
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* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/dialects/du/dlsof.h
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* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/dialects/du/machine.h
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4.93.2/dialects/aix/dstore.c
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* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/dialects/sun/dfile.c
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* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/OLD/misc.c
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4.93.2/dialects/hpux/kmem/dmnt.c
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/dialects/aix/dmnt.c
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* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/OLD/print.c
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/opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/print.c
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Found in path(s):
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/lib/dvch.c
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* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/lib/prfp.c
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/dialects/linux/dstore.c
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/lib/rnmh.c
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* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/dialects/darwin/libproc/dstore.c
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/dialects/darwin/libproc/dsock.c
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* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/scripts/shared.perl5

* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/scripts/idrlogin.perl5
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* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/scripts/list_NULf.perl5
*
/opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/scripts/list_fields.perl
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Frequently Asked Questions about lsof

```
*************************************************************************
| The latest release of lsof is always available via anonymous ftp   |
| from lsof.itap.purdue.edu.  Look in pub/lsof.README for its        |
| location.                                                          |
*************************************************************************
```

This file contains frequently asked questions about lsof and answers
to them.

Vic Abell <abe@purdue.edu>
October 13, 2014

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1.0 General Concepts

1.1 Lsof -- what is it?

Lsof is a UNIX-specific tool. Its name stands for LiSt Open Files, and it does just that. It lists information about files that are open by the processes running on a UNIX system.

See the lsof man

page, the 00DIST file, the 00QUICKSTART
file, and the 00README file of the lsof distribution for
more information.

1.2 Where do I get lsof?

Lsof is available via anonymous ftp from lsof.itap.purdue.edu.
Look in the pub/tools/unix/lsof sub-directory.

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof

Bzip2'd, compressed and gzip'd tar files with GPG certificates
are available.

1.2.1 Are there mirror sites?

On March 21, 2013 these sites appeared to have the lastest
lsof revision:

ftp://ftp.fu-berlin.de/pub/unix/tools/lsof
ftp://sunsite.ualberta.ca/pub/Mirror/lsof
http://www.mirrorservice.org/sites/lsof.itap.purdue.edu/pub/tools/unix/lsof/
ftp://ftp.mirrorservice.org/sites/lsof.itap.purdue.edu/pub/tools/unix/lsof/
rsync://rsync.mirrorservice.org/lsof.itap.purdue.edu/pub/tools/unix/lsof/

1.2.2 Are lsof executables available?

Some lsof executables are available in the subdirectory
tree pub/tools/unix/lsof/binaries These are neither guaranteed
to be current nor cover
every dialect and machine architecture.

I don't recommend you use pre-compiled lsof binaries; I
recommend you obtain the sources and build your own binary.
Even if you're a Sun user without a Sun C compiler, you
can use gcc to compile lsof.

If you must use a binary file, please be conscious of the
security and configuration implications in using an executable
of unknown or different origin. The lsof binaries are
accompanied by GPG certificates. Please use them!

Three additional cautions apply to executables:

1. Don't try to use an lsof executable, compiled for one
   version of a UNIX dialect, on another. Patches can
   make the dialect version different.

2. If you want to use an lsof binary on multiple systems, they must be running the same dialect OS version and have the same patches and feature support.

1.2.3 How do I check the validity of an lsof distribution?

There are two ways to check the validity of an lsof distribution:

1. Follow the instructions in the CHECKSUMS_<revision> file found with the lsof distribution.

   Checking with GPG is the best method.

2. Follow the instructions in the "Security" section of the README.lsof_<revision> file found inside the lsof distribution.

   Again, checking with GPG is the best method.

1.2.4 Why can't I get the sum(1) result reported in README.lsof_<revision>?

The "Security" section of the README.lsof_<revision> file found inside the lsof distribution gives md5, sum, and GPG certificate information.

The simplest, the sum(1) signature, seems to be the trickiest. That's because there are different sum(1) methods, BSD systems usually have cksum(1) instead of sum(1), and different systems compute the block size value differently.

First, the lsof sum results are computed with the old, "alternate" algorithm. On newer systems, you can use sum's "-r" option to get that computation result.

Second, on BSD systems you usually must use cksum(1) instead of sum(1), because they have no sum(1). To tell cksum(1) to use the old, "alternate" algorithm, use its "-o1" option.

Third, the second value that sum reports, the block count, may be computed differently on different systems -- usually block size is considered to be 512 or 1,024. The lsof block counts were computed on a system with a sum(1) option that considers block size to be 512. The BSD system cksum(1) -o1 option considers block size to be 1,024. If your sum(1) or cksum(1)

doesn't report a block count that matches the sum(1) signature given in README.lsof_<revision>, check its man page to see what block size it uses, then adjust its reported block count appropriately.

1.2.5 Why won't gpg accept the lsof-signing PGP public key?

An older PGP key that once signed lsof distributions is included in lsof revisions prior to 4.70. The PGP key is indeed my key, but is incompatible with GPG. It was created about ten years ago and is still acceptable to PGP versions 2.6.2 through 6.5.2.

Lsof revisions 4.70 and above are signed with a copy of my PGP key that has been made acceptable for use with GPG by importing it under GPG's "--allow-non-selfsigned-uid" option.

You can find my GPG compatible key in lsof revisions 4.70 and above and at:

ftp://lsof.itap.purdue.edu/pub/Victor_A_Abell.gpg

If you have an older lsof revision with my PGP key, there are two possible ways to use it:

* Use it with a PGP version from 2.6.2 through 6.5.2.

* Use GPG's "--allow-non-selfsigned-uid" option when you import my PGP key into your GPG key ring.

```
$ gpg --allow-non-selfsigned-uid --import Victor_A_Abell.pgp
```

1.3 Where can I get more lsof documentation?

A significant set of documentation may be found in the lsof distribution (See "Where can I get lsof?). There is a manual page, copious documentation in files whose names begin with 00, and a copy of this FAQ in the file 00FAQ (perhaps slightly less recent than this file if you're reading it via a web browser.)

Two URLs provide some documentation that appears in the lsof distribution:

FAQ: ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/FAQ

man page: ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/lsof_man

1.4 How do I report an lsof bug?

If you believe you have discovered a bug in lsof, you can report it via e-mail to <abe@purdue.edu>. Do NOT report lsof bugs to the UNIX dialect vendor. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

Before you send me a bug report, please read the "Bug Reports" section of the 00README file of the lsof distribution. It lists the steps you should take before and when reporting a suspected bug.

1.5 Where can I get the lsof FAQ?

This lsof FAQ is available in the file 00FAQ in the lsof distribution and at the URL:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/FAQ

1.5.1 How timely is the on-line FAQ?

The on-line FAQ is sometimes too timely. :-)

I
update it as soon as new information is available. That may include information about support that won't appear in the lsof source distribution until the next revision. If you encounter something like that, please send me e-mail at <abe@purdue.edu>. I may be able to point you at a pre-release distribution that contains the support of interest. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

1.6 Is there a test suite?

Yes, as of lsof revision 4.63 there's an automated lsof test suite in the tests/ sub-directory of the lsof top-level directory.

More information on using the test suite, what it does, how to use it and how to configure it may be found in the 00TEST file of the lsof distribution. That file also explains where the test suite has been tested.

Frequently asked questions about the test suite will be asked and answered here in the FAQ. (See "Test Suite

Problems.")

After lsof has been configured
with the Configure script,
lsof can be made and tested with:

```
$ make
$ cd tests
$ make
```

Under normal conditions -- i.e., unless the lsof tree has
been cleaned or purged severely -- all tests or individual
tests may be run by:

```
$ cd test
$ make
```
or
```
$ <run a single test> (See 00TEST.)
```

1.7 Is lsof vulnerable to the standard I/O descriptor attack?

Lsof revisions 4.63 and above are not vulnerable.

Lsof revisions 4.62 and below are vulnerable, but no damage
scenarios have so far been demonstrated.

The standard I/O descriptor attack is a local programmed
assault on setuid and setgid programs that tricks them into
opening a sensitive file with write access on a standard
descriptor, usually stderr (2), and writing error messages
to stderr. If the attacker can control the content of the
error message, the attacker may gain elevated privileges.

The attack was first described in Pine Internet Advisory
PINE-CERT-20020401, available at:

http://www.pine.nl/advisories/pine-cert-20020401.txt

If you are using an lsof revision below 4.63, you should
remove any setuid or setgid permissions you might have
given its executable. Then you should upgrade to lsof
revision 4.63.

1.8 Can I alter lsof's make(1) behavior?

Yes. There are at least two ways to do that.

You can put replacements for lsof Makefile strings in your environment. If you specify the -e make option, make will give environment variable values precedence over strings from the Makefile. For example, to change the compiler string CC from the environment, you might do this with the Bourne shell:

```
$ CC=foobar; export CC
$ make -e
```

You can also replace lsof Makefile strings in the make command invocation. Here's the previous example done that way:

```
$ make CC=foobar
```

Changing the CFGF, CFGL, and DEBUG strings used in lsof Makefiles, either from the environment or from the make invocation, can significantly alter lsof make(1) behavior.
I
commonly use DEBUG to change the -O option to -g so I can build an lsof executable for debugging -- e.g.,

```
$ make DEBUG=-g
```

(Look for DEBUG in this FAQ for other examples of its use.)

Consult the Makefiles to see what CFGL, CFGL, and other lsof Makefile strings contain, and to see what influence their alteration might have on lsof make(1) behavior.

1.9 Is there an lsof license?

No.

The only restriction on the use or redistribution of lsof is contained in this copyright statement, found in every lsof source file. (The copyright year in or format of the notice may vary slightly.)

```
/*
 * Copyright 2002 Purdue Research Foundation, West Lafayette,
 * Indiana 47907.  All rights reserved.
 *
 * Written by Victor A. Abell
 *
 * This software is not subject to any license of the American
 * Telephone and Telegraph Company or the Regents of the
```

```
 * University of California.
 *
 * Permission is granted to anyone to use this software for
 * any purpose on
any computer system, and to alter it and
 * redistribute it freely, subject to the following
 * restrictions:
 *
 * 1. Neither the authors nor Purdue University are responsible
 *    for any consequences of the use of this software.
 *
 * 2. The origin of this software must not be misrepresented,
 *    either by explicit claim or by omission.  Credit to the
 *    authors and Purdue University must appear in documentation
 *    and sources.
 *
 * 3. Altered versions must be plainly marked as such, and must
 *    not be misrepresented as being the original software.
 *
 * 4. This notice may not be removed or altered.
 */
```

1.10 Language locale support

1.10.1 Does lsof support language locales? How do I use the support?

Most UNIX dialect versions of lsof support 8 bit language
locale characters -- e.g., the ability to print 8 bit
characters that have accents and other marks over them.

See the answer to the "Does lsof support wide characters in
language locales?" question
for information on when lsof's
language locale support covers characters wider than 8 bits.

To see if lsof supports language locales for your dialect, look
in the dialect's machine.h header file for the HASSETLOCALE
definition. If it is present and not disabled, then lsof has
language locale support for the dialect.

To enable lsof's language locale support, you must specify in a
locale environment variable (e.g., LANG) a language locale
known to your system that supports the printing of marked
characters -- e.g, en_US. (On some dialects locale(1) may be
used to list the known language locales.)

Note that LANG=C and LANG=POSIX are NOT language locales that
support the printing of marked characters.

If the language locale doesn't support the printing of marked characters, lsof's OUTPUT of them follows the rules for non-printable characters described in the OUTPUT section of lsof(8).

Consult your dialect's setlocale(3) man page for the names of environment
variables other than LANG -- e.g., LC_ALL,
LC_TYPE, etc. -- which may be used to define language locales.

1.10.2 Does lsof support wide characters in language locales?

When lsof's language locale support is enabled with the HASSETLOCALE definition, for selected dialects lsof will also print wide characters (e.g., from UTF-8) when iswprint(3) reports them to be printable.

Wide character support is available when HASWIDECHAR is defined in a dialect's machine.h header file. As of this writing on July 22, 2004, the following dialect versions have wide character support:

AIX >= 4.3.2
Apple Darwin >= 7.3.0
FreeBSD >= 5.2
HP-UX >= 11.00
/proc-based Linux
NetBSD >= 1.6
SCO OpenServer >= 5.0.6
Solaris >= 2.6
Tru64 UNIX 5.1

1.11 Are any files in the lsof distribution copyrighted?

Yes. Most files carry the copyright of the Purdue Research Foundation and may be redistributed under the terms that accompany the copyright notice. Those
terms may also be found
in the answer to the question, "Is there an lsof license?")

A few files carry other copyright notices. Some are BSD notices and they explain the terms under which they are included in the lsof distribution.

Those that carry vendor copyright notices have been reproduced in their original or modified forms with permission from the copyright owners. That permission is indicated in the README

files that accompany the files.

1.12 Are there other lsof-related resources?

There are other resources available, connected to lsof. Among them are FreeBSD and Linux packages whose products use lsof and two particularly interesting resources.

The two interesting resources are a Gnome Tool Kit (GTK) GUI for lsof and a Perl wrapper module.

The GTK GUI is called Glsof and was developed by Gnele. It can be found at:

http://www.sourceforge.net

The Perl wrapper module by Marc Beyer can be found at:

http://search.cpan.org/dist/Unix-Lsof/

1.13 What does the "WARNING: unsupported dialect or version" mean?

The lsof configure script issues that message for UNIX dialects or their versions where I have been unable to test the current revision of lsof. The message doesn't mean that lsof won't work, just that I have no direct evidence that it will.

If the COnfigure script succeeds, except for the warning, try compiling) lsof. If that succeeds, try the lsof test suite.

2.0 Lsof Ports

2.1 What ports exist?

The pub/lsof.README file carries the latest port information:

AIX 5.[23] and 5.3
FreeBSD 4.9 and 6.4 for x86-based systems
FreeBSD 8.[234], 9.0, 10.0 and 11.0 for AMD64-based systems
Linux 2.1.72 and above for x86-based systems
Solaris 9, 10 and 11

In the above list the only UNIX dialects present are ones for which I test the current lsof revision. Lsof may still support unlisted dialect versions -- e.g., HP-UX 10.20, Solaris 7, etc. -- but I don't have access to systems where I could

test lsof
on them, so I can't claim lsof works on them. If your dialect
isn't in the list, you should try building lsof on it anyway.

Lsof version 4 predecessors, versions 2 and 3, may support older
version of some dialects. Contact me via e-mail at <abe@purdue.edu>
if you're interested in their distributions. Make sure "lsof"
appears in the "Subject:" line so my e-mail filter won't classify
your letter as Spam.

2.2 What about a new port?

The 00PORTING file in the distribution gives hints on doing
a port. I will consider doing a port in exchange for
permanent access to a test host. I require permanent access
so I can test new lsof revisions, because I will not offer
distributions of dialect ports I cannot upgrade and test.

2.2.1 User-contributed Ports

Sometimes I receive contributions of ports of lsof to
systems where I can't test future revisions of lsof. Hence,
I don't incorporate these contributions into my lsof
distribution.

However, I do make descriptions
of these contributions
available. You can find them in the 00INDEX and README
files at:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/contrib

Consult the 00INDEX file in the contrib/ directory for a
list of the available contributions and consult README
there for information on how to obtain them.

2.3 Why isn't there an AT&T SVR4 port?

I haven't produced an AT&T SVR4 port because I haven't seen
a UNIX dialect that is strictly limited to the AT&T System
V, Release 4 source code. Every one I have seen is a
derivative with vendor additions.

The vendor additions are significant to lsof because they
affect the internal kernel structures with which lsof does
business. While some vendor derivatives of SVR4 are similar,
each one I have encounted so far has been different enough
from its siblings to require special source code.

If you're interested in an SVR4 version of lsof, here are
some existing ports you might consider:

DC/OSx (This obsolete port is
only available upon
special request.)
Reliant UNIX (This obsolete port is only available
upon special request.)
SCO|Caldera UnixWare (This is the most likely choice.)
Solaris

2.4 Why isn't there an SGI IRIX port?

Lsof support for IRIX was terminated at lsof revision 4.36,
because it had become increasingly difficult for me to
obtain information on the IRIX kernel structures lsof needs
to access.

At IRIX 6.5 I decided the obstacles were too large for me
to overcome, and I stopped supporting lsof on IRIX. I have
sources to the last revision of lsof (4.36) for IRIX, but
that version of lsof does not work on IRIX 6.5 and is
vulnerable to the standard I/O descriptor attack. (See
the "Is lsof vulnerable to the standard I/O descriptor
attack?" Q&A for more information.) Contact me to discuss
obtaining those sources.

If you wish to pursue the issue, don't contact me, contact
SGI. This case was opened with SGI on the subject:

Case ID: 0982584

Category: Unix
Priority: 30-Moderate Impact

Problem Summary:
kernel structure header files needed for continued lsof
support

Problem Description:
Email In 07/17/98 19:09:23

2.5 Why does lsof's Configure script report "WARNING: unsupported
dialect or version"?

Lsof's Configure script issues this message when it encounters
a dialect or its version that lsof once supported, but no

longer does. Usually I drop support for a dialect or version when I can no longer test lsof on it.

However, it's worth trying to compile and use lsof. Be sure to run the test suite. (See the answer to the "Is there a test suite? question for information on the test suite.)

If you have problems with an unsupported dialect or version, contact me via e-mail at <abe@purdue.edu> and I may be able to help. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

3.0 Lsof Problems

3.1 Configuration Problems

3.1.1 Why can't Configure determine the UNIX dialect version?

The lsof Configure script uses UNIX shell commands, often in a command pipeline, to determine the UNIX dialect version. (Consult the dialect stanza in Configure to determine which commands are used.) If Configure can't determine the dialect version, probably one of the commands is not behaving as Configure expects.

Symptoms of the failure include Configure warning messages and incorrect version definitions in the Makefile CFLAGS.

If you suspect that the lsof Configure script is failing to determine the dialect version correctly, try running the commands from Configure stanza one at a time. That will usually reveal the source of the problem. Be particularly mindful that the PATH environment variable can cause commands to be executed from non-standard directories.

If you can't determine the source of the problem, there is a work-around. You can supply the UNIX dialect version in the LSOF_VSTR environment variable. Use Configure as a guide to forming what it expects in LSOF_VSTR. There is also some information on LSOF_VSTR in the 00XCONFIG documentation file of the lsof distribution.

3.2 Compilation Problems

3.2.1 Why does the compiler complain about missing header files?

When you use make to build lsof, the compiler may complain
that it can't find header files -- e.g.,

```
$ make
(cd lib; make DEBUG="-O" CFGF="-DAIXA=0 -DAIXV=4330 \
-DLSOF_VSTR=\"4.3.3.0\"")
gcc  -DAIXA=0 -DAIXV=4330 -DLSOF_VSTR="4.3.3.0" -O \
-c ckkv.c
In file included from ckkv.c:33: ../machine.h:70: \
sys/types.h: A file or directory in the path name \
does not exist. \
```

That type of complaint doesn't represent an lsof problem.
It represents a problem with a missing system header file
that probably should be found in /usr/include or in the
system source tree.

As a first step try using find(1) to locate the problem
header file.
If it's a system header file and can't be
found, here are some possible causes:

1. The file set, RPM or package containing the header files
   has not been installed. Instructions for doing that
   are specific to the UNIX dialect and beyond the scope
   of this document.

2. If the compiler is gcc, the private gcc header files:

   * May not have been installed;

   * May have been installed incorrectly;

   * May not have been updated properly after the last
     compiler or system update;

   * Ones from a previous installation may not have been
     removed.

   A path leading to the gcc private header files can be
   found with `gcc -v`. Consult the gcc documentation for
   instructions on proper installation of the private gcc
   header files.

3. On some dialects -- e.g., FreeBSD, NetBSD, OpenBSD --
   lsof may need to use header files that are located in
   the system source tree -- /sys or /usr/src/sys, for

example. Make sure
the system source tree has been
installed.

3.2.2 Why does gcc complain about the contents of header files distributed by the system's vendor?

When you use make to build lsof and gcc to compile it, gcc
may complain that it finds errors in system header files
-- e.g.,

```
$ make
(cd lib; make DEBUG="-O" CFGF="-Dsolaris=80000 \
 -DHASPR_GWINDOWS -m64 -DHASIPv6 -DHAS_VSOCK \
 -DLSOF_VSTR=\"5.8\"")
 gcc -Dsolaris=80000  -DHASPR_GWINDOWS -m64 -DHASIPv6 \
 -DHAS_VSOCK -DLSOF_VSTR="5.8"  -O  -c  dvch.c
In file included from /usr/include/sys/proc.h:31, \
      from /homes/abe/gnu/gcc-3.2.1/lib/gcc-lib/sparcv9-sun-solaris2/ \
 3.2.1/include/sys/user.h:267, from /usr/include/kvm.h:13, \
 from ../dlsof.h:53, from ../lsof.h:172, from dvch.c:43: \
 /homes/abe/gnu/gcc-3.2.1/lib/gcc-lib/sparcv9-sun-solaris2/\
  3.2.1/include/sys/task.h:59: parse error before "uint_t"
```

Errors like the above are most likely not problems in the
system's
header files, but in the private copies of them
that were created when gcc was made or installed. Note
the presense of
".../gcc-3.2.1/lib/gcc-lib/sparcv9-sun-solaris2/3.2.1/include/..."
in the paths for user.h and task.h. It indicates both
header files are gcc-specific.

To solve errors like this requires comparing the header
files in the vendor's /usr/include tree to the gcc-specific
ones in gcc's private gcc-lib/.../include tree. It may be
necessary to regenerate gcc-specific header files, correct
them or remove them. See the gcc distribution for the
appropriate tools.

A possible temporary work-around is to direct gcc to use
the vendor's header files instead of its temporary ones by
declaring -I/usr/include in the compilation flags.

3.2.3 Other header file problems

Don't overlook any vendor tools that might validate the
vendor header files installed on the system -- e.g., the

Solaris pkgchk tool can be used to check the header files
that were installed
from the SUNWhea package.

For other header file problems contact me at <abe@purdue.edu>.
Please follow the reporting guidelines in the "How do I
report an lsof bug?" section of this FAQ.

3.3 Why doesn't lsof report full path names?

Lsof reports the full path name when it is specified as a
search argument for open files that match the argument.
However, if the argument is a file system mounted-on
directory, and lsof finds additional path name components
from the kernel name cache, it will report them.

Lsof reports path name for file system types that have path
name lookup features -- e.g., some versions of AdvFS for
Digital and Tru64 UNIX. The Linux /proc-based lsof reports
full path names, because the Linux /proc file system provides
them. Lsof on recent builds of Solaris 10 also report full
path names, because those Solaris kernels record the full path
name in the vnode structure.

Otherwise, lsof uses the kernel name cache, where it exists
and can be accessed,
and reports some or all path name
components (e.g., the sys and proc.h components of
/usr/include/sys/proc.h) for these dialects:

Apple Darwin
DC/OSx
FreeBSD
HP-UX, /dev/kmem and PSTAT based
Linux, /dev/kmem-based
NetBSD
NEXTSTEP
OpenBSD
OPENSTEP
Reliant UNIX
SCO OpenServer
SCO|Caldera UnixWare
Solaris 2.x, 7, 8 and 9 (except for some VxFS versions;
see the "Why doesn't Solaris
lsof report VxFS path name
components?" section for more
information)
Solaris 10 (early builds) Tru64 UNIX

As far as I can determine, AFS path lookups don't share in kernel name cache operations, so lsof can't identify open AFS path name components. Apparently Solaris VxFS versions 4 and above don't share in kernel name cache operations, either, so lsof can't display path name components for those open files.

Since the size of the kernel name cache is limited and the cache is in constant flux, it does not always contain the names of all components
in an open file's path; sometimes it contains
none of them.

Lsof reports the file system directory name and whatever components of the file's path it finds in the cache, starting with the last component and working backwards through the directories that contain it. If lsof finds no path components, lsof reports the file system device name instead.

When lsof does report some path components in the NAME column, it prefixes them with the file system directory name, followed by " -- ", followed by the components -- e.g., /usr -- sys/path.h for /usr/include/sys/path.h. The " -- " is omitted when lsof finds all the path name components of a file's name.

The PSTAT-based HP-UX lsof relies on kernel name cache contents, too, even though its information comes to lsof via pstat() function calls. Consequently, PSTAT-based HP-UX lsof won't always report full paths, but may use the " -- " partial path name notation, or may occasionally report no path name at all but just
the file system mounted-on
directory and device names.

Lsof can't obtain path name components from the kernel name caches of the following dialects:

AIX

Only the Linux kernel records full path names in the structures it maintains about open files; instead, most kernels convert path names to device and node number doublets and use them for subsequent file references once files have been opened.

To convert the device and node number doublet into a complete path name, lsof would have to start at the root

node (root directory) of the file system on which the node resides, and search every branch for the node, building possible path names along the way. That would be a time consuming operation and require access to the raw disk device (usually implying setuid-root permission).

If the prospect of all that local disk activity doesn't concern you, think about the cost when the device is NFS-mounted.

Try using the file system mount point and node number lsof reports
as parameters to find -- e.g.,

```
$ find <mount_point> -inum <node_number> -print
```

and you may get an appreciation of what a file system directory tree search would cost.

3.3.1 Why do lsof -r reports show different path names?

When you run lsof with its repeat (``-r'') option, you may notice that the extent to which it reports path names for the same files may vary from cycle to cycle. That happens because other processes are making kernel calls affecting the cache and causing entries to be removed from and added to it.

3.3.2 Why does lsof report the wrong path names?

Under some circumstances lsof may report an incorrect path name component, especially for files in a rapidly changing directory like /tmp.

In a rapidly changing directory, like /tmp, if the kernel doesn't clear the cache entry when it removes a file, a new file may be given the same keys and lead lsof to believe that the old cache entry with the same keys belongs to the new file.

Lsof tries
to avoid this error by purging duplicate entries
from its copy of the kernel name cache when they have the same device and inode number, but different names.

This error is less likely to occur in UNIX dialects where the keys to the name cache are node address and possibly a capability ID. The Apple Darwin, Digital UNIX, FreeBSD, HP-UX,

NEXTSTEP, OPENSTEP, Solaris, Tru64 UNIX, and UnixWare dialects use node address. Apple Darwin, FreeBSD, NetBSD, OpenBSD, Tru64 UNIX, and also use a capability ID to further identify name cache entries.

3.3.3 Why doesn't lsof report path names for unlinked (rm'd) files?

When lsof gets path name components from the kernel's name cache, it does not report the path names of a file that has been unlinked from its parent directory -- e.g., deleted via rm, or the unlink() system call -- even when some process may still hold the file open; lsof reports only the file system's mounted-on directory and device. That's because path name components
are removed from the kernel name cache when the file is unlinked.

Unlinked open files are sometimes used by applications for temporary, but invisible storage (i.e., ls won't show them, and no other process can open them.) However, they may occasionally consume disk space to excess and cause concern for a system administrator, who will be unable to locate them with find, ls, du, or other tools that rely on finding files by examining the directory tree.

By using lsof's +L option you can see the link count of open files -- in the NLINK column. An unlinked file will have an NLINK value of zero. By using the option +L1 you can tell lsof to display only files whose link count is less than one (i.e., zero).

There are some UNIX dialect-specific exceptions to lsof's inability to report unlinked path names. They are described in the answer to the "When will lsof report path names for deleted files?" question.

3.3.4 Why doesn't lsof report the "correct" hard linked file path name?

When lsof reports a rightmost path name component for a file with hard links, the component may come from the kernel's name cache. Since the key which connects an open file to the kernel name cache may be the same for each differently named hard link, lsof may report only one name for all open hard-linked files. Sometimes that will be "correct" in the eye of the beholder; sometimes it will not. Remember, the file identification keys significant

to the kernel are the device and node numbers, and they're
the same for all the hard linked names.

3.3.5 When will lsof report path names for deleted files?

Lsof will report path names for deleted files for two
dialects: Linux and later builds of Solaris 10.

Deleted Linux path names are reported by default and have
"(deleted)" at their ends.

The display of Solaris 10 deleted path names may be selected
with the -X option. When selected they are also reported with
"(deleted)" at their ends.

3.4 Why is lsof so slow?

Lsof may appear to be slow if network address to host name
resolution is slow. This can happen, for example, when the
name server is unreachable, or when a Solaris PPP cache daemon
is malfunctioning.

To see if name lookup is causing lsof to be slow, turn it off
with the ``-n'' option.

Port service name lookup or portmap registration lookup may
also be causes of slow-down. To suppress port service name
lookup, specify the ``-P'' option.

Lsof doesn't usually make direct portmap calls -- only when +M
is specified, or when HASPMAPENABLED is defined during lsof
construction. (The lsof help panel, produced with `lsof -h`
will display the default portmap registration reporting
state.) The quickest first step in checking if lsof is slow
because of the portmapper is to use lsof's ``-M'' option.

Lsof may be slow if UID to login name lookups are slow.
Suppress them with ``-l''.

On dialects where lsof uses the kernel name cache, try
disabling its use with ``-C''.
(You can tell if lsof uses the
kernel name cache by looking for ``-C'' in lsof's ``-h''
output.) Of course, disabling kernel name cache use will mean
that lsof won't report full or partial path names, just file
system and character device names.

If you're just interested in the open files of one process, try using the ``-p <Process-ID>" option to limit lsof to that process. (The ``-p" option may also be followed with a list of Process-IDs.)

If you're interested in including or excluding certain commands, try lsof's "-c[^]cmd" option.

If you're interested in certain Internet TCP and UDP states (e.g., ESTABLISHED) or in excluding some (e.g., CLOSE_WAIT), try lsof's "-s p:s" option, available where shown on the lsof help output, obtained with -h or -?. More information on it may be found in the answer to the "How are protocol state name exclusion and inclusion used?" question.

Your UNIX dialect may not support "-s p:s" and its associated performance improvments
to Internet-only file processing. You
can find more information on those topics in the answer to the "Why doesn't my dialect support state name exclusion and inclusion?" question.

Older AIX lsof may be slow to start because of its oslevel identity comparison. (Newer AIX lsof uses uname(2).) See the "Why does AIX lsof start so slowly?" and "Why does lsof warn "compiled for x ... y; this is z.?" sections for more information.

3.5 Why doesn't lsof's setgid or setuid permission work?

If you install lsof on an NFS file system that has been mounted with the nosuid option, lsof may not be able to use the setgid or setuid permission you give it, complaining it can't open the kernel memory device -- e.g., /dev/kmem.

The only solution is to install lsof on a file system that doesn't inhibit setgid or setuid permission.

3.6 Does lsof have security problems?

I don't think so. However, lsof does usually start with setgid permission, and sometimes with setuid-root permission. Any
program that has setgid or setuid-root permission, should always be regarded with suspicion.

Lsof drops setgid power, holding it only while it opens access to kernel memory devices (e.g., /dev/kmem, /dev/mem,

/dev/swap). That allows lsof to bypass the weaker security of access(2) in favor of the stronger checks the kernel makes when it examines the right of the lsof process to open files declared with -k and -m. Lsof also restricts some device cache file naming options when it senses the process has setuid-root power.

On a few dialects lsof requires setuid-root permission during its full execution in order to access files in the /proc file system. These dialects include:

DC/OSx 1.1 for Pyramid systems
Reliant UNIX 5.4[34] for Pyramid systems

When lsof runs with setuid-root permission it severely restricts all file accesses it might be asked to make with its options.

The device cache file (typically .lsof_hostname in the home directory
of the real user ID that executes lsof) has 0600 modes. (The suffix, hostname, is the first component of the host's name returned by gethostname(2).) However, even when lsof runs setuid-root, it makes sure the file's ownerships are changed to that of the real user and group. In addition, lsof checks the file carefully before using it (See the question "How do I disable the device cache file feature or alter it's behavior?" for a description of the checks.); discards the file if it fails the scrutiny; complains about the condition of the file; then rebuilds the file.

See the 00DCACHE file of the lsof distribution for more information about device cache file handling and the risks associated with the file.

3.7 Will lsof show remote hosts using files via NFS?

No. Remember, lsof displays open files for the processes of the host on which it runs. If the host on which lsof is running is an NFS server, the remote NFS client processes that are accessing files on the server
leave no process
records on the server for lsof to examine.

3.8 Why doesn't lsof report locks held on NFS files?

Generally lock information held by local processes on remote

NFS files is not recorded by the UNIX dialect kernel. Hence, lsof can't report it.

One exception is some patch levels of Solaris 2.3, and all versions of Solaris 2.4 and above. Lsof for those dialects does report on locks held by local processes on remotely mounted NFS files.

3.8.1 Why does lsof report a one byte lock on byte zero as a full file lock?

When a process has a lock of length one, starting at byte zero, lsof can't distinguish it from a full file lock. That's because most UNIX dialects represent both locks the same way in their file lock (flock or eflock) structures.

3.9 Why does lsof report different values for open files on the same file system (the automounter phenomenon)?

On UNIX dialects where file systems may be mounted by an automounter with the ``direct'' type, lsof may sometimes report difference DEVICE, SIZE/OFF, INODE and NAME values when asked to report files open on the file system.

This happens because some files open on the file system -- e.g., the current directory of a shell that changed its directory to the file system as the file system's first reference -- may be characterized in the kernel with temporary automounter node information. The cd doesn't cause the file system to be mounted.

A subsequent reference to the file system -- e.g., an ls of any place in it -- will cause the file system to be mounted. Processes with files open to the mounted file system are characterized in the kernel with data that reflects the mounted file system's parameters.

Unfortunately some kernels (e.g., some versions of Solaris 2.x) don't revisit the process that did only a change-directory for the purpose of updating the data associated with the open directory file. The file continues to be characterized with temporary automounter information until it does another directory change, even a trivial ``cd .''.

Lsof will report on both reference types, when supplied the file system name as an argument, but the data lsof

reports will reflect what it finds in the kernel. For the different types lsof will display different data, including different major and minor device numbers in the DEVICE column, different lengths in the SIZE/OFF column, different node numbers in the INODE column, and slightly different file system names in the NAME column.

In contrast, fuser, where available, can only report on one reference type when supplied the file system name as an argument. Usually it will report on the one that is associated with the mounted file system information. If the only reference type is the temporary automounter one, fuser will often be silent about it.

3.10 Why don't lsof and netstat output match?

Lsof and netstat output don't match because lsof reports the network information it finds in open file system objects -- e.g., socket files -- while netstat often gets its information from separate kernel tables.

The information available to netstat may describe network activities never or no longer associated with open files, but necessary for proper network state machine operation.

For example, a TCP connection in the FIN_WAIT_[12] state may no longer have an associated open file, because the connection has been closed at the application layer and is now being closed at the TCP/IP protocol layer.

3.10.1 Why can't lsof find accesses to some TCP and UDP ports?

Lsof stands for LiSt Open Files. If there is no open file connected to a TCP or UDP port, lsof won't find it. That's the most common reason why lsof doesn't find a port netstat might report open.

One reason I've found on some UNIX dialects is that their kernels set aside TCP and UDP ports for communicating with support activities, running in application layer servers -- the automounter daemons, and the NFS biod and nfsd daemons are examples. Netstat may report the ports are in use, but lsof doesn't.

Another reason is that netstat may also be able to report a port is open on a particular dialect, because it uses a

source of data different from what lsof uses -- e.g., netstat might examine kernel tables or use streams messages to MIB2, while lsof relies on the information it finds in open file structures and their descendants.

Sometimes it's possible to search the data netstat and lsof use. For example, on Linux /proc/tcp and /proc/udp can be examined. There might an entry there for a particular protocol and port, but if the line on which the port appears doesn't have an inode number that matches an inode number of an open file, lsof won't be able to identify the process using the port.

This is a tough question to which there is no easy answer.

3.11 Why does lsof update the device cache file?

At the end of the lsof output you may see the message:

```
    lsof:
WARNING: /Homes/abe/.lsof_vic was updated.
```

In this message /Homes/abe/.lsof_vic is the path to the private device cache file for login abe. (See 00DCACHE.)

Lsof issues this message when it finds it necessary to recheck the system device directory (e.g., /dev or /devices) and rebuild the device cache file during the open file scan. Lsof may need to do these things it finds that a device directory node has changed, or if it cannot find a device in the cache.

3.12 Why doesn't lsof report state for UDP socket files?

Lsof reports UDP TPI connection state -- TS_IDLE (Idle), TS_BOUND (Bound), etc. -- for some, but not all dialects. TPI state is stream-based TCP/IP information that isn't available in many dialects.

A fairly weak general rule is if netstat(1) reports UDP TPI state, lsof may be able to report it, too. But don't be surprised if lsof fails to report UDP TPI state for your dialect. Other factors influence lsof's ability to report UDP TPI state, including the
availability of state number
data in kernel structures, and state number to state name conversion data.

3.13 I am editing a file with vi; why doesn't lsof find the file?

Classic implementations of vi usually don't keep open the file being edited. (Newer ones may do so in order to maintain an advisory lock.) Instead classic vi opens the file, makes a temporary copy (usually in /tmp or /usr/tmp), and does its work in that file. When you save the file being edited from a classic vi implementation, it reopens and rewrites the file.

During a classic vi session, except for the brief periods when vi is reading or rewriting the file, lsof won't find an open reference to the file from the vi process, because there is none.

3.14 Why doesn't lsof report TCP/TPI window and queue sizes for my dialect?

Lsof only reports TCP/TPI window sizes for Solaris, because only its netstat reports them. The intent of providing TCP/TPI information in lsof NAME column output is to make it
easier to match netstat output to lsof output.

In general lsof only reports queue sizes for both TCP and UDP (TPI) connections on BSD-derived UNIX dialects, where both sets of values appear in kernel socket queue structures. SYSV-derived UNIX dialects whose TCP/IP implementations are based on streams generally provide only TCP queue sizes, not UDP (TPI) ones.

While you may find that netstat on some SYSV-derived UNIX dialects with streams TCP/IP may report UDP (TPI) queue sizes, you will probably also find that the sizes are always zero -- netstat supplies a constant zero for UDP (TPI) queue sizes to make its headers align the same for TCP and UDP (TPI) connections. Solaris seems to get it right -- i.e., its netstat does not report UDP (TPI) queue sizes.

When in doubt, I chose to avoid reporting UDP (TPI) queue sizes for UNIX dialects whose netstat-reported values I knew to be a constant zero or whose origin I couldn't determine. OSR is a dialect in this category.

3.14.1 Why
doesn't lsof report socket options, socket states, and TCP flags and values for my dialect?

The lsof -T argument, 'f', that selects the reporting of socket

options, socket states and TCP flags was implemented at lsof revision 4.71 for the following UNIX dialects, providing the indicated information:

AIX 4.3.2 and 5.1 and above
All socket options and values, socket states, and TCP flags and values described in lsof(8) are reported.
Apple Darwin 7.2 and above
All socket options and values, socket states, and TCP flags and values described in lsof(8) are reported.
Digital UNIX and Tru64 UNIX 4.0
All socket options and values, socket states, and TCP flags and values described in lsof(8) are reported.
FreeBSD 4.9 and above
All socket options and values, socket states, and TCP flags and values described in lsof(8) are reported.
HP-UX 11.00 (/dev/kmem-based lsof)
All socket options and values are reported. No socket states
are reported. Only the TF_NODELAY TCP flag and the TF_MSS value are reported.
HP-UX 11.11 and iiiv2 (PSTAT-based lsof)
All socket options and values, and socket states are reported. No TCP flags or values are reported.
Linux
No socket options and values, socket states, or TCP flags and values are reported. The support for "-Tf" could not be added to Linux, because socket options, socket states, and TCP flags and values are not available via the /proc file system.
NetBSD 1.6G and above
All socket options and values, socket states, and TCP flags and values described in lsof(8) are reported.
OpenBSD 3.4 and above
All socket options and values, socket states, and TCP flags and values described in lsof(8) are reported.
OPENSTEP 4.2
All socket options and values, socket states, and TCP flags and values described in lsof(8) are reported.
OpenUNIX 8
All socket options and values, socket states, and TCP flags and values described
in lsof(8) are reported.
SCO OpenServer Release 5.0.6
All socket options and values, socket states, and TCP flags and values described in lsof(8) are reported.
Solaris 2.6, 8 and above
The socket option display is limited to BROADCAST,

DEBUG, DGRAM_ERRIND, DONTROUTE and OOBINLINE. Socket values are limited to KEEPALIVE and LINGER. No socket states are reported. The TCP DELACK, NODELAY and SENTFIN flags are reported. The TCP MSS value is reported.

UnixWare 7.1.[134]

All socket options and values, socket states, and TCP flags and values described in lsof(8) are reported.

3.14.2 Why doesn't lsof report the partial listen queue connection count for my dialect?

The reporting of partial listen queue connections was added to -Tf processing at lsof revision 4.76. Currently it is reported for these dialects:

AIX 4.3.2

This dialect is no longer supported, so no attempt was made to add partial listen queue length support for it.

AIX 5.1 and above

Partial listen queue information is available.

Apple Darwin 7.2 and above

Partial listen queue information is available.

Digital UNIX 4.0

This dialect is no longer supported, so no attempt was made to add partial listen queue length support for it.

FreeBSD 4.9 and above

Partial listen queue information is available.

HP-UX 11.00 (/dev/kmem-based lsof)

No partial listen queue information is available.

HP-UX 11.11 and iiiv2 (PSTAT-based lsof)

No partial listen queue information is available.

Linux

No partial listen queue information is available.

NetBSD 1.6G and above

Partial listen queue information is available.

OpenBSD 3.4 and above

Partial listen queue information is available.

OPENSTEP 4.2

Partial listen queue information is available.

OpenUNIX 8

This dialect is no longer supported, so no attempt was made to add partial listen queue length support for it.

SCO OpenServer Release 5.0.6

No
partial listen queue information is available.
Solaris 2.6, 8 and above
Partial listen queue information is available.
Tru64 UNIX 5.0
This dialect is no longer supported, so no attempt
was made to add partial listen queue length support
for it.
Tru64 UNIX 5.1
Partial listen queue information is available.
UnixWare 7.1.[134]
Partial listen queue information is available.

3.15 What does "no more information" in the NAME column mean?

When lsof can find no successor structures -- a gnode, inode, socket, or vnode -- connected to the file structure of an open descriptor of a process, it reports "no more information" in the NAME column. The TYPE, DEVICE, SIZE/OFF, and INODE columns will be blank.

Because the file structure is supposed to contain a pointer to the next structure of a file's processing support, if the pointer is NUL, lsof can go no further.

Some UNIX dialects have file structures for system processes -- e.g., the sched process -- that have no successor structure pointers. The "no more information" NAME will commonly appear for these processes in lsof output.

It may also be the case that lsof has read the file structure while it is being assembled and before a successor structure pointer value has been set. The "no more information" NAME will again result.

Unless lsof output is filled with "no more information" NAME column messages, the appearance of a few should be no cause for alarm.

3.16 Why doesn't lsof find a process that ps finds?

If lsof fails to display open files for a process that ps indicates exists, there may be several reasons for the difference.

The process may be a "zombie" for which ps displays the

"(defunct)" state. In that case, the process has exited and has no open file information lsof can display. It does still have a process structure, sufficient for the needs of ps.

Another possible explanation is that kernel tables and structures may have been changing when lsof looked for the process, making lsof unable to find all relevant process structures. Try repeating the lsof request.

3.17 Why doesn't -V report a search failure?

The usual reason that -V won't report a search failure is that lsof located the search item, but was prevented from listing it by an option that doesn't participate in search failure reporting.

For example, this lsof invocation:

```
$ lsof -V -i TCP@foobar -a -d 999
```

won't report it can't find the Internet address TCP@foobar, even if there is an open file connected to that address, unless the open file also has a file descriptor number of 999 (the ``-a -d 999'' options).

Compile-time options can also affect -V results in much the same way. For example, if HASSECURITY and HASNOSOCKSECURITY are defined at compile time, this lsof invocation, run by a non-root user:

```
$ lsof -V -c inetd
```

won't report that it can't find the inetd command, even if there is a process running the inetd command, because the HASSECURITY and HASNOSOCKSECURITY options prevent the listing of all but the socket files of another user, and no socket file selector (e.g., "-i") was specified.

3.18 Portmap problems

3.18.1 Why isn't a name displayed for the portmap registration?

When portmap registration reporting is enabled, any time there is a registration for a local TCP or UDP port, lsof

displays it in square brackets, following the port number
or service name -- e.g., ``:1234[name]'' or ``:name[100083]''.

The TCP or UDP port number or service number (what follows
the `:') is displayed under the control of the lsof -P
option. The registration identity is held by the portmapper
and may be a name or a number, depending on how the
registration's owner declared it. Lsof reports what the
port map holds and cannot derive a registration name from
a registration number.

Lsof can be compiled with registration reporting enabled
or disabled by default, under the control of the HASPMAPENABLED
#define
(usually in machine.h). The lsof help panel (`lsof
-h`) will show the default. Lsof is distributed with
reporting disabled by default.

3.18.2 How can I display only portmap registrations?

Lsof doesn't have an option that will display only TCP or
UDP ports with portmap registrations. The +M option only
enables the reporting of registration information when
Internet socket files are displayed; +M doesn't select
the displaying of Internet socket files -- the -i option
does that.

This simple lsof pipe to grep will do the job:

```
$ lsof -i +M | grep "\["
```

This works because -i selects Internet socket files, +M
enables portmap registration reporting, and only output
lines with opening square brackets will have registrations.

When portmap registration reporting is enabled by default,
because the lsof builder constructed it that way, +M is
not necessary. (The lsof help panel, produced with `lsof
-h` will display the default portmapper registration
reporting state.)
However, specifying +M when reporting
is already enabled is acceptable, as is specifying -M when
reporting is already disabled.

Digression: lsof will accept `+' or `-' as a prefix to most
options. (That isn't documented in the man page or help
panel to reduce confusion and complexity.) The -i option
is as acceptable as +i, so the above example could be

written a little more tersely as:

```
$ lsof +Mi | grep "\["
```

But be careful to use the ``Mi'' ordering, since ``iM'' implies M is an address argument to `i'.

3.18.3 Why doesn't lsof report portmap registrations for some ports?

Lsof reports portmap registrations for local TCP and UDP ports only. It identifies local ports this way:

* The port appears in the local address section of the kernel structure that contains it.

* The port appears in the foreign address section of a kernel structure whose local and foreign Internet addresses are the same.

* The port appears in the foreign address section of a kernel address structure whose Internet address is INADDR_LOOPBACK (127.0.0.1).

Following these rules, lsof ignores foreign portmapped ports. That's done for reasons of efficiency and possible security prohibitions. Contacting all remote portmappers could take a long time and be blocked by network difficulties (i.e., be inefficient). Many firewalls block portmapper access for security reasons.

Lsof may occasionally ignore portmap registration information for a legitimate local port by virtue of its local port rules. This can happen when a port appears in the foreign part of its kernel structure and the local and foreign Internet addresses don't match (perhaps because they're on different interfaces), and the foreign Internet address isn't INADDR_LOOPBACK (127.0.0.1).

3.18.4 Why doesn't lsof report portmap registrations for some Solaris versions?

In some versions of Solaris -- 9 and 10 are known to exhibit this problem -- lsof is unable to display portmap registrations.

This portmap registration reporting failure occurs when the Solaris netconfig field (in /etc or etc/inet) has its first two

non-comment lines enabling tcp6 and udp6. When netconfig is configured in that fashion, lsof's attempt to read the portmap via an RPC function fails.

I don't have an explanation for the failure, but this comment in the netconfig(4) man page appears to have some bearing on the problem:

```
# The following two entries starting with udp6 and tcp6 are
# meant to be used for IPv6. If you have Ipv6 enabled on your
# machine then you can uncomment these two lines to enable
# RPC and NFS to use the Ipv6 stack.
...
#udp6  tpi_clts      v  inet6  udp  /dev/udp6  -
#tcp6  tpi_cots_ord  v  inet6  tcp  /dev/tcp6  - "
```

My interpretation of that comment is that there is a different RPC interface to the portmap when IPv6 is enabled. However, I can't find any documentation on it in the RPC man pages. If anyone has
information on it, please send it to me at
<abe@purdue> and put "lsof Solaris portmap" in the subject line.

A work-around may be to move the ucp6 and tcp6 lines after the udp and tcxp lines in netconfig. I don't know if that change has any unacceptable consequences, but it works for me on my Solaris 9 test system, and I have a report that it also works on Solaris 10.

3.19 Why is `lsof | wc` bigger than my system's open file limit?

There is a strong temptation to count open files by piping lsof output to wc. If your purpose is to compare the number you get to some Unix system parameter that defines the number of open files your system can have, resist the temptation.

One reason is that lsof reports a number of "files" that don't occupy Unix file table space -- current working directories, root directories, jail directories, text files, library files, memory mapped files are some. Another reason is that lsof can report a file shared by more than one process that
itself occupies only one file table slot.

If you want to know the number of open files that occupy

file table slots, use the +ff option and process the lsof output's FILE_ADDR column information with standard Unix tools like cut, grep, sed, and sort.

You might also consider using use lsof's field output with +ff, selecting the file struct address with -FF, and processing the output with an AWK or Perl script. See the list_fields.awk, list_fields.perl, and shared.perl5 scripts in the scripts/ subdirectory of the lsof distribution for hints on file struct post-processing filters.

3.20 Why doesn't lsof report file offset (position)?

Lsof won't report a file offset (position) value if the -s option (without parameters) has been specified, or if the dialect doesn't support the displaying of file offset (position). (Note that on selected dialects the help output, obtained with -h or -?, may show that the -s option can also be supplied the "p:s" parameters; for more information on that addition, see the answer to the "How are protocol state name exclusion and inclusion used?" question.)

That lsof is reporting only file size is indicated by the fact that the appropriate column header says SIZE instead of SIZE/OFF.

If lsof doesn't support the displaying of file offset (position) -- e.g., for Linux /proc-based lsof -- the -h or -? output panel won't list the -o option.

Sometimes the availability of file offset information depends on the dialect's kernel. This is particularly true for socket file offsets.

Maintenance of offsets for pseudo-terminal devices varies by UNIX dialect and is related to how the dialect kernel implements pseudo-terminal support. Kernels like AIX, for example, that short-circuit the transfer of data between socket and pseudo devices to reduce TCP/IP daemon interrupt rates won't advance offsets in the TCP/IP daemon socket files. Instead they will advance offsets in the open standard I/O files of the shell child precess where the pseudo-terminal devices are used.

When in doubt about the behavior of lsof in reporting file offset information, do some carefully measured experiments,

consult the lsof sources, or contact me at <abe@purdue.edu>
to discuss the matter. Please follow the reporting guidelines
in the "How do I report an lsof bug?" section of this FAQ.

3.20.1 What does lsof report for size when the file doesn't really have one?

When a file has no true size -- e.g., it's a socket, a
FIFO, or a pipe -- lsof tries to report the information it
finds in the kernel that describes the contents of associated
kernel buffers.

Thus, for example, size for most TCP/IP files is socket
buffer size. The size of the socket read buffer is reported
for read-only files; the size of the write buffer for
write-only files; and the sum of the buffers sizes for
read-write files.

3.21 Problems with path name arguments

3.21.1 How do I ask lsof to search a file system?

You can ask
lsof to search for all open files on a file
system by specifying its mounted path name as an lsof
argument -- e.g.,

```
$ lsof /
```

Output of the mount command will show file system mounted
path names. It will also show the mounted-on device path
for the file system.

If the mounted-on device is a block device (the permission
field in output of `ls -l <device>` starts with a `b/),
you can specify it's name, too -- e.g.,

```
$ lsof /dev/sd0a
```

If the mounted-on device isn't a block device -- for example,
some UNIX dialects call a CD-ROM device a character device
(ls output starts with a `c') -- you can force lsof to
assume that the specified device names a file system with
the +f option -- e.g.,

```
$ lsof +f -- /dev/sd0a
```

(Note: you must use ``--" after +f or -f if a file name

follows immediately, because +f and -f can be followed by characters that specify flag output selections.)

When you use +f and lsof can't match the device to a file system, lsof will issue
a complaint.

The +f option may be used in some dialects to ask lsof to search for an NFS file system by its server name and server mount point. If the mount application reports an NFS file system mounted-on value that way, then this sample lsof request should work.

```
$ lsof +f -- fleet:/home/fleet/u5
```

Finally, you can use -f if you don't want a mounted file system path name to be considered a request to report all open files on the file system. This is useful when you want to know if anyone is using the file system's mounted path name. This example directs lsof to report on open access to the `/' directory, including when it's being used as a current working or root directory.

```
$ lsof -f -- /
```

The lsof -f option performs the same function as -f does in some fuser implementations. However, since the lsof -c option was chosen for another purpose before the `f' option was added to lsof, +f was selected as the analogue to the fuser -c option. (Sorry for
the potential confusion.)

3.21.2 Why doesn't lsof find all the open files in a file system?

Lsof may not find all the open files in a file system for several reasons.

First, some processes with files open on the file system may have been changing status when lsof examined the process table, and lsof "missed" them. Remember, the kernel changes much faster than lsof can respond to the changes.

Second, be sure you have specified the file system correctly. Perhaps you specified a file instead. You can use lsof's -V option to have lsof report in detail on what it couldn't find. Make sure the report for the file system you specified says "file system." Here's some -V output:

```
$ /lsof -V /tmp ./lsof.h ./lsof
COMMAND  PID USER   FD   TYPE DEVICE SIZE/OFF  INODE NAME
lsof    2688  abe  txt   VREG 18,1,7  1428583 226641 ./lsof
lsof    2689  abe  txt   VREG 18,1,7  1428583 226641 ./lsof
lsof: no file use located: ./lsof.h
```

You can also use lsof's +f option
to force it to consider
a path name as a file system. If lsof can't find a file
system by the specified name, it will issue a complaint --
e.g.,

```
$ lsof +f -- /usr
lsof: not a file system: /usr
```

(/usr is a directory in the / file system.)

3.21.3 Why does the lsof exit code report it didn't find open files
when some files were listed?

Sometimes lsof will list some open files, yet return a
non-zero exit code, suggesting it hasn't found all the
specified files.

The first thing you should when you suspect lsof is incorrect
is to repeat the request, adding the -V option. In the
resulting report you may find that your file system
specification really wasn't a file system specification,
just a file specification.

Finally, if you specify two files or two file systems twice,
lsof will credit all matches to the first of the two and
believe that there were no matches for the second. It's
possible to specify a single file system twice with different
path names
by using both its mounted directory path name
and mounted-one device name.

```
$ lsof +f -V spcuna:/sysprog /sysprog
COMMAND   PID USER   FD   TYPE DEVICE SIZE/OFF  INODE NAME
ksh     11092  abe  cwd   VDIR 39,0,1     1536 226562 /sysprog
(spcuna:/sysprog)
...
lsof: no file system use located: spcuna:/sysprog
```

All matches were credited to /sysprog; none to spcuna:/sysprog.

3.21.4 Why won't lsof find all the open files in a directory?

When you give lsof a simple directory path name argument
(not a file system mounted-on name), you are asking it to
search for processes that have the directory open as a
file, or as a process-specific directory -- e.g., root or
current working directory.

If you want to list instances of open files inside the
directory, you need to specify the individual path names
of those files, or use the lsof +D and +d options.

See the answer to the question "Why are the +D and +d
options so slow?" before you use +D or +d
casually.

See the answer to the question "Why do the +D and +d options
produce warning messages?" for an explanation of some
process authority limitations of +D and +d.

3.21.5 Why are the +D and +d options so slow?

The +D and +d options cause lsof to build a path name search
list for a specified directory. +D causes lsof to descend
the directory to its furthest subdirectory, while +d
restricts it to the top level. In both cases, the specified
directory itself is included in the search list. In both
symbolic links are ignored.

Building such a search list can take considerable time,
especially when the specified directory contains many files
and subdirectories -- lsof must call the system readlink()
and stat() functions for each file and directory. Storing
the search list can cause lsof to use more than its normal
amount of dynamic memory -- each file recorded in the search
list consumes dynamic memory for its path name, characteristics,
and search linkages. Using
the list means lsof must search
it for every open file in the system.

Building the search list for a directory specified on some
file systems can be slow -- e.g., for an NFS directory with
many files. Some file systems have special logging features
that can introduce additional delays to the building of
the search list -- e.g., NFS logging, or logging on a
Solaris UFS file system. The bottom line is that slow
search list construction may not be so much an lsof problem
as a file system problem. (Hint: if you're using Solaris
UFS logging, consider specifying the "logging,noatime"

option pair to reduce the number of atime writes to the
UFS logging queue and disk.)

A somewhat risky way to speed up lsof's building of the
search list is to use lsof's ``-O'' option. It forces lsof
to do all system calls needed to build the search list
directly, rather than in a child process. While direct
system calls are much faster, they can block in the kernel
-- e.g., when an NFS
server stops responding -- stopping
lsof until the kernel operation unblocks.

As an example of the load +D can impose, consider that an
`lsof +D /` on a lightly loaded NeXT '040 cube with a 1GB
root file system disk took 4+ minutes of real time. It
also generated several hundred error messages about files
and directories the lsof process didn't have permission to
access with stat(2).

The bottom line is that +D and +d should be used cautiously.
+D is more costly than +d for deeply nested directory trees,
because of the full directory descent it causes. So use
+d where possible. And you might need to consider the
performance of the file system that holds the directory
you name with +d or +D.

In view of these warnings, when is it appropriate to use
+D or +d? Probably the most appropriate time is when you
would specify the directory's contents to lsof with a shell
globbing construct -- e.g., `lsof *`. If that's what you
need to do, `lsof +d .` is probably more
efficient than
having the shell produce a directory list, form it into an
argument vector, and pass the vector to lsof for it to
unravel.

See the answer to the question "Why do the +D and +d options
produce warning messages?" for an explanation of some
process authority limitations of +D and +d.

3.21.6 Why do the +D and +d options produce warning messages?

+D and +d option processing is limited by the authority of
the lsof process -- i.e., lsof can only examine (with
lstat(2) and stat(2)) files the owner of the process can
access.

If the ownership, group membership, or permissions of the

specified directory, file within it, or directory within
it prevents the owner of the lsof process from using lstat(2)
or stat(2) on it, lsof will issue a warning message, naming
the path and giving the system's (lstat(2's or stat(2)'s)
reason (errno explanation text) for refusing access.

As an example, assume user abc has a subdirectory in /tmp,
owned by abc and readable, writable
and searchable by only
its owner. If user def asks lsof to search for all /tmp
references with +D or +d, lsof will be unable to lstat(2)
or stat(2) anything in abc's private subdirectory, and will
issue an appropriate warning.

Lsof warnings can usually be suppressed with the -w option.
However, using -w with +D or +d means that there will be
no indication why lsof couldn't find an open reference to
a restricted directory or something contained in it.

Hint: if you need to use +D or +d and avoid authority
warnings, and if you have super-user power, su and use lsof
with +D or +d as root.

3.22 Why can't my C compiler find the rpcent structure definition?

When you try to compile lsof your compiler may complain
that the rpcent structure is undefined. The complaints
may look like this:

```
>print.c: In function `fill_portmap':
>print.c:213: dereferencing pointer to incomplete type
>...
```

The most likely cause is that someone has allowed a BIND
installation
to update /usr/include/netdb.h (or perhaps
/usr/include/rpc/netdb.h), removing the rpcent structure
definition that lsof expects to find there.

Only Solaris has an automatic work-around. (See dlsof.h
in dialects/sun.). The Solaris work-around succeeds because
there is another header file, <rpc/rpcent.h>, with the rpcent
structure definition, and there is a Solaris C pre-processor
test that can tell when the BIND <netdb.h> is in place and
hence <rpc/rpcent.h> must be included.

Doubtlessly there are similar work-arounds possible in
other UNIX dialects whose header files have been "touched"

by BIND, but in general I recommend restoration of the
vendor's <netdb.h> and any other header files BIND might
have replaced. (I think BIND replaces <resolv.h>,
<sys/bitypes.h>, <sys/cdefs.h> -- and maybe others.)

3.23 Why doesn't lsof report fully on file "foo" on UNIX dialect
"bar?"

Lsof sometimes won't report much information on a given
file, or may even report an error message
in its NAME
column. That's usually because the file is of a special
type -- e.g., in a file system specific to the UNIX dialect
-- and I haven't used a system where the file appeared
during my testing.

If you encounter such a situation, send me e-mail at
<abe@purdue.edu> and we may be able to devise an addition to
lsof that will report on the file in question. Please follow
the reporting guidelines in the "How do I report an lsof bug?"
section of this FAQ. Make sure "lsof" appears in the
"Subject:" line so my e-mail filter won't classify your letter
as Spam.

3.24 Why do I get a complaint when I execute lsof that some library
file can't be found?

On systems where the LIBPATH (or the equivalent) environment
variable is used to record the library search path in
executable files when they are built, an incorrect value
may make it impossible for the system to find the shared
libraries needed to load lsof for execution.

This may be particularly true on systems like
AIX >= 4.1.4,
where the lsof Makefile takes the precautionary step of
using the -bnolibpath loader flag to insure that the path
to the private static lsof library is not recorded in the
lsof binary. Should LIBPATH be invalid when lsof is built,
it will be recorded in the lsof binary as the default
library path search order and lead to an inability to find
libraries when lsof is executed.

So, if you get missing library complaints when you try to
execute lsof, check LIBPATH, or whatever environment variable
is used on your system to define library search order in
executable files. Use the tools at your disposal to look
at the library paths recorded in the lsof binary -- e.g.,

chatr on HP-UX, dump on AIX, ldd on Solaris.

Make sure, too, that when the correct library search path has been recorded in the executable file, the required library files exist at one or more of the search paths.

3.25 Why does lsof complain it can't open files?

When lsof begins execution, unless it has been asked to report only help or version information, typically it will attempt to access kernel memory and symbol files -- e.g., /unix, /dev/kmem. Even though lsof needs only permission to open these files for reading, read access to them might be restricted by ownerships and permission modes.

So the first step to diagnosing lsof problems with opening files is to use ls(1) to examine the ownerships and permission modes of the files that lsof wants to open. You may find that lsof needs to be installed with some type of special ownership or permission modes to enable it to open the necessary files for reading. See the "Installing Lsof" section of 00README for more information.

3.26 Why does lsof warn "compiled for x ... y; this is z."?

Unless warnings are suppressed (with -w) or the kernel identity check symbol (HASKERNIDCK) definition has been deleted, all but one lsof dialect version (exception: /proc-based Linux lsof) compare the identity of the running kernel to that of the one for which lsof was constructed. If the identities don't match, lsof issues a warning like this:

```
lsof: WARNING: compiled for Solaris release 5.7; this is 5.6.
```

Two kernel identity differences can generate this warning -- the version number and the release number.

Build and running identity differences are usually significant, because they usually indicate kernels whose structures are different -- kernel structures commonly change at dialect version releases. Since lsof reads data from the kernel in the form of structures, it is sensitive to changes in them. The general rule is that an lsof compiled for one UNIX dialect version will not work correctly when run on

a different version.

There are three work-arounds: 1) use -w to suppress the warning -- and risk missing other warnings; 2) permanently disable the identity check by deleting the definition of HASKERNIDCK in the dialect's machine.h header file -- with the same risk;
or 3) rebuild lsof on the system where it is to be run. (Deleting HASKERNIDCK can be done with the Customize script or by editing machine.h.)

Generally checking kernel identity is a quick operation for lsof. However, it is potentially slow under AIX, where lsof must run /usr/bin/oslevel. To speed up lsof, use -w to suppress the /usr/bin/oslevel test. See "Why does AIX lsof start so slowly?" for more information.

3.27 How can I disable the kernel identity check?

The kernel identity check is controlled by the HASKERNIDCK definition. When it is defined, most dialects (exclusion: /proc-based Linux lsof) will compare the build-time kernel identity with the run-time one.

To disable the kernel identity check, disable the HASKERNIDCK definition in the dialect's machine.h header file. The Customize script can be used to do that in its section about the kernel identity check.

Caution: while disabling the kernel identity check may result in smaller lsof startup overhead,
it comes with the
risk of executing an lsof that may produce warning messages, error messages, incorrect output, or no output at all.

3.28 Why don't ps(1) and lsof agree on the owner of a process?

Generally the user ID lsof reports in its USER column is the process effective user ID, as found in the process structure. Sometimes that may not agree with what ps(1) reports for the same process.

There are sundry reasons for the difference. Sometimes ps(1) uses a different source for process information, e.g., the /proc file system or the psinfo structure. Sometimes the kernel is lax or confused (e.g., Solaris 2.5.1) about what ID to report as the effective user ID. Sometimes the system carries only one user ID in its process

structure (some BSD derivatives), leaving lsof no choice.

The differences between lsof and ps(1) user identifications should be small and normally it will be apparent that the confusion is over a process whose application has changed to an effective
user ID different from the real one.

3.29 Why doesn't lsof find an open socket file whose connection state is past CLOSE_WAIT?

TCP/IP connections in states past CLOSE_WAIT -- e.g., FIN_WAIT_1, CLOSING, LAST_ACK, FIN_WAIT_2, and TIME_WAIT -- don't always have open files associated with them. When they don't, lsof can't identify them. When the connection state advances from CLOSE_WAIT, sometimes the open file associated with the connection is deleted.

3.30 Why don't machine.h definitions work when the surrounding comments are removed?

The machine.h header files in dialect subdirectories have some commented-out definitions like:

```
/* #define HASSYSDC "/your/choice/of/path */
```

You can't simply remove the comments and expect the definition to work. That's intended to make you think about what value you are assigning to the symbol. The assigned value might have a system-specific convention. HASSYSDC, for example, might be /var/db/lsof.dc for FreeBSD, but it might
be /var/adm/lsof.dc for Solaris.

Symbols defined in the lsof documentation are described in 00PORTING, other machine.h comments, and other lsof documentation files. HASSYSDC, for example, is discussed in 00DCACHE. When comments and documentation don't suffice, consult the source code for hints on how the symbol is used.

3.31 What do "can't read inpcb at 0x...", "no protocol control block", "no PCB, CANTSENDMORE, CANTRCVMORE", etc. mean?

Sometimes lsof will report "can't read inpcb at 0x00000000", "no protocol control block", "no PCB, CANTSENDMORE, CANTRCVMORE" or a similar message in the NAME column for open TCP socket files. These messages mean the file's socket

structure lacks a pointer to the INternet Protocol Control
Block (inpcb) where lsof expects to find connection addresses
-- local and foreign ports, local and foreign IP addresses.
The socket file has probably been submitted to the shutdown(2)
function for processing.

In some implementations lsof
issues the "no PCB, CANTSENDMORE,
CANTRCVMORE" message, which tries to explain the absence
of a protocol control block by showing the socket state
settings that have been made by the shutdown(2) function.

If a non-zero address follows the "0x" in the "can't read
inpcb" message, it means lsof couldn't read inpcb contents
from the indicated address in kernel memory.

3.32 What do the "unknown file system type" warnings mean?

Lsof may report a message similar to"

```
unknown file system type, v_op: 0x10472f10
```

in the NAME column for some files.

This means that lsof has encountered a vnode for the file
whose operation switch address (from v_op) references a
file system type for which there is no support in lsof.
After lsof identifies the file system type, it uses
pre-compiled code to locate the file system specific node
for the file where lsof finds information like file size,
device number, node number, etc.

To get some idea of what the file system type might be,
use
nm on your kernel symbol file to locate the symbol name
that corresponds to the v_op address -- e.g., on Solaris
do:

```
$ nm -x /dev/ksyms | grep 0x10472f10
0x10472f10 ... |file_system_name_vnodeops
```

Where "file_system_name" is the clue to the unsupported
file system.

Lsof doesn't use the v_op address to identify file system
types on all dialects. Sometimes it uses an index number
it finds in the vnode. It will translate that symbol to
a short name in the warning message -- e.g., "nfs3" -- if

possible.

3.33 Installation

3.33.1 How do I install lsof?

There is no "standard" way to install lsof. Too much depends on local conditions for me to be able to provide working install rules in the lsof make files. (The skeleton install rules you will find just give "hints.") See the "Installing Lsof" section of 00README for a fuller explanation.

To install lsof you will need to consider these questions:

* Who should be able to use lsof? (See HASSECURITY and

  HASNOSOCKSECURITY in the "Security" section of 00README.)

* Where should lsof be installed? This is a decision mostly dictated by local conditions. Somewhere in /usr/local -- etc/ or sbin/ -- is a common choice.

* What permissions should I give the lsof executable? The answer to this varies by dialect. The make files have install rules that give hints. The "Installing Lsof" section of 00README gives information, too.

* What if I want to install lsof in a shared file system for machines that require different lsof configurations? See the next question and answer, "How do I install a common lsof when I have machines that need differently constructed lsof binaries?"

3.33.2 How do I install a common lsof when I have machines that need differently constructed lsof binaries?

A dilemma that faces some system administrators when they install lsof in a shared file system -- e.g., NFS -- is that they must have different lsof executables for different systems.

The answer is to build an lsof wrapper script that is executed in place of lsof. The script can use system commands to determine which lsof binary should be executed.

Consider this example. You have HP-UX machines with 32 and 64 bit kernels that share the /usr/local/sbin directory

where you want to install lsof. Consequently, on each system you must use a different lsof executable, built for the system's bit size. (That's because lsof reads kernel structures, sized by the kernel's bit size.)

One answer is to install three things in /usr/local/sbin: 1) a 32 bit lsof as lsof32; 2) a 64 bit lsof as lsof64; and 3) an lsof script. The script might look like this one, based on work by Amir J. Katz:

```
   #!/bin/sh
   x=`/usr/bin/getconf KERNEL_BITS`  # returns 32 or 64
   if /usr/bin/test "X$x" = "X32"
   then
     lsof32 $*
   else
     if /usr/bin/test "X$x" = "X64"
     then
 lsof64 $*
     else
 echo "Can't determine which
lsof executable to use;"
 echo "getconf KERNEL_BITS says: $x"
 exit 1
     fi
   fi
```

Solaris users should consult "How do I install lsof for Solaris 7, 8 or 9?" for information on a similar trick using the Solaris isaexec command.

Users of other dialects might be able to use a command like uname(1) that can identify a distinguishing feature of the system to be incorporated in pre-installed lsof executable names. For example, use `uname -r` and install binaries with suffixes that match `uname -r` output.

3.34 Why do lsof 4.53 and above reject device cache files built by earlier lsof revisions?

When lsof revisions 4.53 run and encounter a device cache file built by an earlier revision, it will reject the file and build a new one. The rejection will be advertised with these messages:

```
   lsof: WARNING: no /dev device in <name>: 2 sections
   ...
   lsof: WARNING: created device cache file: <name>
```

This happens because the header line of the device cache
file
was changed at revision 4.53 to contain the number of
the device on which the device directory resides. The old
device cache file header line -- the "2 sections" line in
the above warning message, node reads "2 sections, dev=600".

This is not a serious problem, since lsof automatically
rebuilds the device cache file with the correct header
line.

3.35 What do "like block special" and "like character special" mean
in the NAME column?

When lsof comes across an open block or character file
whose device, raw device and inode place it somewhere other
than /dev (or /devices), lsof doesn't report the /dev (or
/devices) name in the NAME column. Instead lsof reports
the file system name and device or path name in the NAME
column and parenthetically adds "like block special <path>"
or "like character special <path>".

The value for <path> will point to a block or character
device in /dev (or /devices) whose raw device number matches
that of the open file being reported, but
whose device
number or node number (or both) don't match.

Such an open file is connected to a device node that has
been created in a directory other than /dev (or /devices.)
See mknod(8) for information on how such nodes are created.
(Generally one needs root power to create device nodes with
mknod.)

3.36 Why does an lsof make fail because of undefined symbols?

When lsof is compiled via the `make` step and the final
load step fails because of missing symbols, the problem
may not be lsof. The problem may be that ld, called by
the compiler as part of the `make` step, can't find some
library that lsof needs.

First check the last compiler line of the make operation
-- e.g., the last line with cc or gcc in it before the
undefined symbol report -- for loader arguments, i.e.,
ones beginning with "-l". Except for "-llsof" the rest
name system libraries. ("-L./lib" precedes "-llsof" to

tell the loader its location.)

Check that all the named system libraries exist. Look
in
/lib and /usr/lib as a start, but that may not be the only
place system libraries live. Consult your dialect's
documentation, e.g., the compiler and loader man pages,
for other possible locations.

If some system library doesn't exist, that may mean it was
never installed or was removed. You'll have to re-install
the missing library.

You may find that all the system libraries lsof uses exist.
Your next step might be to use nm and grep to see if any
of them contain the undefined symbols.

```
$ nm library | grep symbol
```

If the undefined symbol exists in some library named by
the lsof make step, then you might have a problem with some
environment variable that controls the load step. The most
common is LD_LIBRARY_PATH. It may have a setting that
causes ld to ignore a directory containing a library lsof
names. If this is the case, try unsetting LD_LIBRARY_PATH
in the environment of the ld process -- e.g., do:

```
$ unset LD_LIBRARY_PATH
```
or
```
% unsetenv
LD_LIBRARY_PATH
```

Consult your ld man page for other environment variables
that might affect library searching -- e.g., LIBPATH, LPATH,
SHLIB_PATH, etc.

If the undefined function doesn't exist in any libraries
lsof names, check other libraries. See if the function
has a man page that names its library. If the latter is
true, please let me know, because that is an lsof problem
I need to fix.

If none of these solutions work for you, send me some
documentation via e-mail at <abe@purdue.edu>. Include `uname
-a` output, the output of the lsof `Configure ...` and `make`
steps, and the contents of the environment in force when the
`make` step was executed -- e.g., `env` or `printenv` output.
If you've located the libraries lsof names, send me that

information, too. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

3.37 Command Regular Expressions (REs)

3.37.1 What are basic and extended regular expressions?

Lsof's
``-c'' option allows the specification of regular expressions (REs), enclosed in two slash ('/') characters and followed by these modifiers:

b the RE is a basic RE.
i ignore case.
x the RE is an extended RE (the default).

Note: the characters of the regular expression may need to be quoted to prevent their expansion by the shell.

Example: this RE is an extended RE that matches exactly four characters, whose third may be an upper ('O') or lower case ('o') oh:

```
-c /^..o.$/i
```

For simplicity's sake, an RE that is acceptable to egrep(1) is usually called an extended RE.

REs suitable for the old line editor, ed(1), are often called basic REs (and sometimes also called obsolete).

These are some ways basic REs usually differ from extended REs. (There are other differences.)

* `|', `+', `?', '{', and '}' are ordinary characters.

* `^' is an ordinary character except at the beginning of the RE.

* `$' is an ordinary character except at the end of the RE.

* `*' is an ordinary character if it appears at the beginning of the RE.

For more information on REs and the distinction between basic and extended REs, consult your dialect's man pages

for ed(1), egrep(1), sed(1), and possibly regex(5) or
regex(7).

3.37.2 Why can't I put a slash in a command regular expression?

Since a UNIX command name is the last part of a path to
the command's executable, the lsof command regular expression
(RE) syntax uses slash ('/') to mark the beginning and end
of an RE. Slash may not appear in the RE and the `\'
back-slash escape is ineffective for "hiding" it.

More likely than not, if you try to put a slash in an lsof
command RE, you'll get this response:

```
$ lsof -s/.\// ...
lsof: invalid regexp modifier: /
```

Lsof is complaining the the first character it found after
the second slash isn't an lsof command RE modifier -- 'b',
'i', or 'x'.

3.37.3 Why does lsof say my command regular expression wasn't found?

When
you use both forms of lsof's -c option --
``-c <command>" and ``-c /RE/[m]" -- and ask that lsof
do a verbose search (``-V"), you may be surprised that
lsof will say that the regular expression wasn't found.

This can happen if the ``-c <command>" form matches first,
because then the ``-c/RE/[m]" test will never have been
applied. For example:

```
$ ./lsof -clsof -c/^..o.$/ -V -adcwd
COMMAND  PID USER   FD   TYPE DEVICE SIZE/OFF  NODE NAME
lsof    7850  abe  cwd   VDIR    6,0     2048 96442 / (/dev/sd0a)
lsof: no command found for regex: ^..o.$
```

The ``-clsof" option matched first, so the ``-c/^..o.$/
option wasn't tested.

3.38 Why doesn't lsof report on shared memory segments?

Lsof reports on shared memory segments only if they're
associated with an open file. That's consistent with lsof's
mission -- to LiSt Open Files. Shared memory segments with
no file associations aren't open files.

That's not to say that a report on shared memory segments
and
their associated processes wouldn't be useful. But it
calls for a new tool, not more baggage for lsof.

3.39 Why does lsof report two instances of itself?

When you ask lsof to report all open files and it has
permission to do so, you may see two lsof processes in the
output. The processes are connected via pipes -- e.g.,
here's an HP-UX 11 example.

```
COMMAND     PID USER   FD   TYPE     DEVICE ...
...
lsof      29450  abe    7w  PIPE 0x48732408 ...
lsof      29450  abe    8r  PIPE 0x48970808 ...
...
lsof      29451  abe    6r  PIPE 0x48732408 ...
lsof      29451  abe    9w  PIPE 0x48970808 ...
```

The first process will usually be the lsof you initiated;
the second, an lsof child process that is used to isolate
its parent process from kernel functions that can block --
e.g., readlink() or stat().

Information to and from the kernel functions is exchanged
via the two pipes. When the parent process detects that
the child process has
become blocked, it attempts to kill
the child. Depending on the UNIX dialect that may succeed
or fail, but the parent won't be blocked in any event.

See the "BLOCKS AND TIMEOUTS" and "AVOIDING KERNEL BLOCKS"
sections of the lsof man page for more information on why
the child process is used and how you can specify lsof
options to avoid it. (Caution: that may be risky.)

3.40 Why does lsof report '\n' in device cache file error messages?

Lsof revisions prior to 4.58 may report '\n' in error
messages it delivers about problems in the device cache
file -- e.g.,

```
lsof: WARNING: no ...: 4 sections\n
```

That's deliberately done to show the exact contents of the
device cache file line about which lsof is complaining,
including its terminating NL (New Line) '\n' character.

In the above example the line in the device cache file
causing the lsof complaint contains "4 sections" and ends
with a '\n'.

At revision 4.58 and above, device cache error messages
like the one in
the above example have been changed to
read:

```
lsof: WARNING: no ...: line "4 sections"
```

The terminal '\n' is no longer reported, the line contents
are enclosed in double quote marks ("'"), and the word
"line" has been added as a prefix to denote that what
follows is a line from the device cache file.

3.41 Kernel Symbol and Address Problems

3.41.1 What does "lsof: WARNING: name cache hash size length error: 0" mean?

When run on some systems, lsof may issue this warning:

```
lsof: WARNING: name cache hash size length error: 0
```

That is an example from a FreeBSD system where lsof reads
the kernel's _nchash variable and finds its value is zero.

Similar warnings include:

```
WARNING: kernel name cache size:
WARNING: can't read kernel's name cache:
WARNING: no name cache address
WARNING: name cache hash size length error:
WARNING: unusable name cache size:
```

These warnings are issued when lsof is attempting to read
the kernel's name cache information.
They are usually the
result of a mis-match between the addresses for kernel
symbols lsof gets via nlist(2) and the addresses in use by
the kernel.

Lsof usually gets kernel symbol addresses from what it
believes to be the kernel boot file. In FreeBSD, for
example, that's the path returned by getbootfile(3), usually
/kernel. The boot file can have other names in other UNIX
dialects -- /unix, /vmunix, /bsd, /netbsd, /mach, /stand/vmunix,

etc.

Lsof will get incorrect (mismatched) addresses from the
boot file if it has been replaced by a newer one which
hasn't yet been booted -- e.g., if this is done in FreeBSD:

```
# mv /kernel /kernel.OLD
# mv /kernel.NEW /kernel
```

Until the FreeBSD system is rebooted, the booted kernel is
/kernel.OLD, but getbootfile() says it is /kernel. If
symbol addresses important to lsof in /kernel.OLD and
/kernel don't match, the lsof WARNING messages result.

3.41.2 Why does lsof produce "garbage" output?

Kernel name cache warnings
may not be the only sign that
lsof is using incorrect symbol addresses to read kernel
values. If there's no reasonable test lsof can make on
what it reads from the kernel, it may issue other warnings
or even report nonsensical results.

The warnings may appear on STDERR, such as:

```
lsof: can't read proc table info
```

Or the warnings may appear in the NAME column as messages
saying lsof can't read or interpret some kernel structure --
e.g.,

```
... NAME
... can't read file struct from 0x12345
```

One possible work-around is to point lsof's kernel symbol
address gathering at the proper boot file. That can be
done with lsof's -k option -- e.g.,

```
$ lsof -k /kernel.OLD
```

The best work-around is to make sure the standard boot file
is properly sited -- e.g., if you've moved a new /kernel
in place, boot it.

3.42 Why does lsof report open files when run as super user that
it doesn't report when run with lesser privileges?

The most likely cause is that the HASSECURITY

option was
selected when the lsof executable was built.

If HASSECURITY is defined when lsof is built, and lsof is
run with the privileges of a non-ROOT user, it will only
list open files belonging to the user. The same lsof
executable, when run with root user privileges, will list
all open files.

However, if HASSECURITY and HASNOSOCKSECURITY are both
defined when lsof is built, lsof will list open files
belonging to the user and will also list anyone else's open
socket files, provided their listing is selected with the
"-i" option.

So first ask yourself if the process whose open files lsof
won't list belong to a user other than the one under which
you're running lsof, and are not open socket files. If
either is true, use lsof's help (-h or -?) option and look
for a line near the bottom of the help panel that says:

```
"... can list all files..."
```

If the leading "..." says "Only root" then HASSECURITY was
defined when lsof was built. If the trailing "..."
says
", but anyone can list socket files" then HASNOSOCKSECURITY
was also defined.

Should you want an lsof not built with HASSECURITY defined,
rerun the lsof Configure script. If you let Configure do
customization, make sure you answer 'n' when it asks if
you want to enable HASSECURITY and HASNOSOCKSECURITY. If
you don't need to do customization, you can rebuild lsof
with the "-n" option to Configure. Here's an example of
such a rebuild sequence:

```
$ Configure -clean
$ Configure -n <dialect-abbreviation>
$ make
```

More information on the HASSECURITY and HASNOSOCKSECURITY
options may be found in the "Security" section of the
00README file of the lsof distribution.

3.43 Test Suite Problems

3.43.1 Errors all tests can report:

3.43.1.1 Why do tests complain "ERROR!!! can't execute ../lsof"?

All tests in the test suite expect an executable lsof file
to exist in the tests parent directory, ../lsof.

If there's none there, the tests/Makefile has a rule
to
make it, but there are probably circumstances where that
rule may fail.

The work-around is to re-Configure and re-make lsof, then
run the test suite.

3.43.1.2 Why do tests complain "ERROR!!! can't find ..." a file?

Many tests create (or use from a supplied environment
variable path) a test file and use lsof to find it. When
lsof can't file the file, the tests report the error with
messages of the form:

```
   ERROR!!!  can't find ... : <some file path>
 or
   ERROR!!!  lsof couldn't find ...
```

These type of error messages mean that the lsof field output
delivered to the test didn't contain a file that the test
could identify as the one it intended lsof to find. It
might also mean that the process information -- command
name, PID or parent PID -- didn't match what the test
expected.

This could imply a bug in the test or a bug in lsof. Try
using lsof to find a known file that is open. For example,
while in the tests sub-directory, do this:

```
   $ sleep 30 <
Makefile
   $ ../lsof Makefile
```

If lsof doesn't report that Makefile is open, then the
fault may be with lsof. If lsof reports the file is open,
search further in the test code for the failure cause.

3.43.1.3 Why do some tests fail to compile?

If a test suite program fails to compile, it may be because
I've never had an opportunity to compile the test on the

particular UNIX version you are using.

See Appendix B in 00TEST for a list of the UNIX dialects where the test suite has been validate.

3.43.1.4 Why do some tests always fail?

There are several tests in the optional group that have conflicting or special requirements:

LTbigf needs a dialect and file system that support large files.

LTlock won't work if the tests/ sub-directory is on an NFS file system.

LTnfs won't work if the tests/ sub-directory is not on an NFS file system.

So for two tests in particular, LTlock and LTnfs, one will generally fail.

Some failing tests can be run successfully by supplying to them a path to the appropriate type of file system with the -p option.

3.43.1.5 Why does the test suite say it hasn't been validated on my dialect?

When you use the default rule of the test suite's Makefile, it may issue this complaint:

```
$ cd tests
$ make
!!!WARNING!!!

This dialect or its particular version may not have
been validated with the lsof test suite.  Consequently
some tests may fail or may not even compile.

!!!WARNING!!!
```

You are then given the opportunity to answer 'y' to have the test suite operation continue.

This message means that the tests/TestDB file in the tests sub-directory doesn't show that the test suite has been

run with the combination of compiler flags found in
tests/config.cflags. The tests might nor run; they may
encounter compiler failures.

See 00TEST for more information on the UNIX dialects where
the test suite has been validated and on the workings of
TestDB
and its supporting scripts.

When the tests/Makefile "auto" rule is used, the message
is more terse and the condition is fatal.

This suite has not been validated on:

<dialect_description>

No opportunity to continue is offered.

The tests/Makefile "silent" rule will skip checking for
the validation footprint.

3.43.1.6 Why do the tests complain they can't stat() or open()
/dev/mem or /dev/kmem?

When the tests detect that lsof for the dialect reads its
information from kernel memory (i.e., the LT_KMEM definition
is present in tests/config.cflags), and when the lsof
executable path is ../lsof, the tests make sure they can
stat() and open() for read access the relevant kernel memory
devices, /dev/kmem and possibly /dev/mem.

If those stat() or open() operations fail, the tests issue
an error message and quit. The message explains why the
system rejected the operation in terms of system "errno"
symbols and messages. More often than not the explanation
will
be that the process lacks permission to access the
indicated device node.

One work-around is to give the lsof executable being tested
the necessary permission -- e.g., via chgrp, chmod, etc.
-- and set its path in the LT_LSOF_PATH environment variable.
(See 00TEST.)

Another work-around is to make sure the process that runs
the tests has the necessary permissions -- e.g., run it as
root, or enable the process login to access the resources.
For example, I can run the tests on my personal work-station

because /dev/kmem and /dev/mem are readable by the "kmem"
group and my login is in that group.

3.43.2 LTbigf test issues

3.43.2.1 Why does the LTbigf test say that the dialect doesn't support large files?

Large file support is defined dialect by dialect in the
lsof source files and Configure script. If large file
support isn't defined there, it isn't defined in the LTbigf
test.

If you think that's wrong for a particular dialect, contact me
via e-mail at <abe@purdue.edu>.
Make sure "lsof" appears in the
"Subject:" line so my e-mail filter won't classify your letter
as Spam.

3.43.2.2 Why does LTbigf complain about operations on its config.LTbigf* file?

The LTbigf must be able to write a large file test (size
> 32 bits) and seek within it and the process file ulimit
size must permit the operation. If the default location
for the test file, tests/, isn't on a file system enabled
for large file operations or if the process ulimit file
block size is too small, lsof will get file operation
errors, particularly when seeking

There may be a work-around. Specify the path to a file
LTbigf can write in a file system enabled for large file
operations a the -poption. Make sure that the ulimit file
block size permits writing a large file. For example,
presuming /scratch23 is large-file-enabled, and presuming
you have permission to raise the ulimit file block size,
this shell commands will allow the LTbigf test to run on
AIX:

```
$
./LTbigf -p /scratch23/abe/bigfile
```

(Note: syntax for the ulimit command varies by dialect and
by shell. Discovering the proper variant is left to the
reader.)

More information on this subject can be found in the LTbigf

description in the 00TEST file. If course, the LTbigf.c source file in tests/ is the ultimate source of information,

3.43.2.3 Why does LTbigf warn that lsof doesn't return file offsets?

On some dialects (e.g., Linux) lsof can't report file offsets, because the data access method underlying lsof doesn't provide them. If LTbigf knows that lsof can't report file offsets for the dialect, it issues this warning:

```
LTbigf ... WARNING!!!  lsof can't return file offsets
for this dialect, so offset tests have
been disabled.
```

LTbigf then performs the size test and skips the offset tests.

For more information see 00TEST and the "Why doesn't /proc-based lsof report file offsets (positions)?" Q&A of this file.

3.43.3 Why does the LTbasic test complain "ERROR!!! lsof this ..." and "ERROR!!! lsof that ..."?

The LTbasic test program uses lsof to examine a running lsof process. It looks for the lsof current working directory, executable (if possible), and kernel memory file (if applicable).

Failures to find those things result in the LTbasic error messages. More information on how LTbasic produces the error messages may be found in the LTbasic.c source file.

On HP-UX 11.11 and higher, for example, if the test's current working directory is on a loopback (LOFS) file system, LTbasic won't be able to find the current working directory of the lsof process because of a bug in the HP-UX kernel.

The solution for that HP-UX problem is to install an HP-UX patch. See the answer to the "Why doesn't PSTAT-based lsof report a CWD that is on a loopback (LOFS) file system?" question for more information on the patch.

3.43.4 NFS test issues

3.43.4.1 Why does the LTnfs test complain "couldn't find NFS file ..."?

The LTnfs
test must work with an NFS test file. After it
opens the file it asks lsof to find it on an NFS file system.
If the file isn't on an NFS file system, lsof won't find it,
and the NFS test script complains and fails.

The work-around is to use -p option to supply a path to a
regular NFS file (not a directory) that is on an NFS file
system that LTnfs can read. Presuming /share/bin/file is
such a file and can be opened for reading by the LTnfs
test, this sample shell command could be used to run the
LTnfs test successfully:

```
$ ./LTnfs -p /share/bin/file
```

(If the NFS file system is enabled for large files, the
NFS test will produce the error message described in the
following Q&A.)

3.43.5 LTnlink test issues

3.43.5.1 Why does the LTnlink test complain that its test file is on an NFS file system?

The LTnlink test may complain:

```
LTnlink ... WARNING!!! test file <path> is NFS mounted.
```

and then issue an explanation and a hint about using the
-p option.

The LTnlist
test does this because of the way NFS file
links are managed when an NFS file is unlinked and the
unlinking process still has the file open. Unlike with
files on a local file system, when an NFS file that is
still open is unlinked, its link count is not reduced.

The file name is changed to a name of the form .nfsxxxx
and the link count is left unchanged until the process
holding the file open closes it. That's done by NFS so it
can keep proper track of the file on NFS clients and servers.

Since the link count isn't reduced when the LTnlink test
program closes the NFS test file it still has open, lsof
won't find it for LTnlink with a link count of zero.
Consequently, LTnlink disables that test section and issues
its warning.

The warning suggests that the unlink test section can be run by giving LTnlink a path to a test file with the -p option. That path must name a file LTnlink can write and unlink. Presuming /scratch23/abe/nlinkfile is on a local file system
and the LTnlink test can write to it and unlink it, this sample shell command can be used to run the complete LTnlink test successfully:

```
$ LTnlink -p /scratch23/abe/nlinkfile
```

3.43.5.2 Why does LTnlink delay and report "waiting for link count update: ..."?

On some UNIX dialects and file system combinations the updating of link count after a file has been unlinked can be delayed. Consequently, lsof won't be able to report the updated link count to LTnlink for a while.

When lsof doesn't report the proper link count to LTnlink, it sleeps and repeats the lsof call, using the "waiting for link count update: ..." message as a signal that it is waiting for the expected lsof response. The wait cycle duration is limited to approximately one minute.

3.43.5.3 Why does LTnlink fail because of an unlink error?

LTnlink may fail with an error similar to:

```
LTnlink ... ERROR!! unlink(<name>) failed: (Permission denied).
```

That message will be followed by a short explanation.

The
error means that the kernel support for the file system on which the file <name> resides does not allow a process to unlink a file while it has the file open. (When LTnlink is run without the "-p path" option, it creates a <name> that begins with "./config.LTnlink" and ends with the LTnlink process ID number.)

An unlink failure of this type runs counter to original UNIX file system behavior, but it has been observed on some file system types, especially on the ZFS file system.

The work-around is to run LTnlink on a file system that allows a process to unlink a file it has open. Usually /tmp has that

support. So, try running LTnlink this way:

```
$ ./LTnlink -p /tmp/<name>
```

where <name> is a unique name in /tmp of your choosing. To be safe, create a subdirectory in /tmp, named by your login:

```
$ rm -f /tmp/<login>
$ mkdir /tmp/<login>
$ ./LTnlink -p /tmp/<login>/<name>
```

3.43.6 LTdnlc test issues

3.43.6.1 Why won't the LTdnlc test run?

Lsof
is unable to access the DNLC cache on AIX, because the kernel symbols for the DNLC aren't exported. Contact IBM to learn why that decision was made.

The LTdnlc test won't work on Apple Darwin because lsof can't obtain reliable DNLC information.

The LTdnlc test may fail on other dialects. Failure causes include: a busy system with a DNLC that is changing rapidly; path name components too large for the DNLC; a file system -- e.g., NFS, /tmp, loopback -- which doesn't fully participate in the DNLC; or DNLC limitations (Many DNLC implementations will only store path name components if they are 31 characters or less.)

If you suspect the file system doesn't fully participate in kernel DNLC processing, as a work-around rebuild and test lsof on one that does.

3.43.6.2 What does the LTdnlc test mean by "... <path> found: 100.00%"?

Even when it succeeds the LTdnlc test will report:

```
LTdnlc ... /export/home/abe/src/lsof4/tests found: 100.00%
```

This message means that
the LTdnlc test asked lsof to find
the file at the indicated path five times and lsof found
the full path name in the indicated percentage of calls.
The LTdnlc test considers it a failure if the percentage
falls below 50.0%

3.43.6.3 Why does the DNLC test fail?

The DNLC test may fail when some component of the lsof tests/ sub-directory can't be cached by the kernel DNLC. Some kernels have a limit on the length of individual components (typically) 32.

3.43.7 Why hasn't the test suite been qualified for 64 bit HP-UX 11 when lsof is compiled with gcc?

When I attempted to qualify lsof for HP-UX 11, compiled with gcc 3.0, the LTsock test failed. I traced the failure to a gcc compilation error. Because LTsock is an important test, I didn't feel that the test suite was qualified if it failed.

LTsock compiles and runs correctly on 64 bit HP-UX 11 when compiled with HP's ANSI-C.

3.43.8 LTszoff test issues

3.43.8.1 Why does LTszoff warn that lsof doesn't return file offsets?

On
some dialects (e.g., Linux) lsof can't report file offsets, because the data access method underlying lsof doesn't provide them. If LTszoff knows that lsof can't report file offsets for the dialect, it issues this warning:

```
LTszoff ... WARNING!!!  lsof can't return file offsets
for this dialect, so offset tests have
been disabled.
```

LTszoff then performs the size test and skips the offset tests.

For more information see 00TEST and the "Why doesn't /proc-based lsof report file offsets (positions)?" Q&A of this file.

3.43.9 LTlock test issues

3.44 File descriptor list (the ``-d'' option) problems

3.44.1 Why does lsof reject a ``-d'' FD list?

Lsof rejects ``-d'' FD lists that contain both exclusions and inclusions with messages like:

```
lsof: exclude in an include list: ^1
lsof: include in an exclude list: 2
```

That's because ``-d'' FD lists are processed as ORed lists, so it makes no sense for them to contain both exclusions and inclusions.

I.e.,,
if a ``-d'' FD list were to contain ``^cwd,1'', the ``^cwd'' member is useless, because the ``1'' member dominates by saying "include only FD 1". That effectively excludes ``cwd'' FD.

Note that lists may have multiple members of the same type, exclude or include. They are processed as an ORed set. If an FD isn't excluded by any member of an exclude list, it is selected. If an FD is included by any member of an include list, it is selected.

3.44.2 Why are file descriptors other than those in my FD list reported?

The FD list that follows ``-d'' excludes or includes file descriptors, but unless the ``-a'' (AND) option is specified, the FD list selections are ORed to the other selections.

For example, the following lsof command will cause all file descriptors to be listed for the lsof command, and all but the cwd descriptor for all other commands, probably not what was intended.

```
$ lsof -clsof -d^cwd
```

Hint: use ``-a'' -- e.g.,

```
$ lsof -clsof
-a -d^cwd
```

3.45 How can I supply device numbers for inaccessible NFS file systems?

When lsof can't get device numbers for inaccessible NFS file systems via stat(2) or lstat(2), it attempts to get them from the mount table's dev=xxx options. Successes are reported with a warning message that indicates the source of the device number and that output might be incomplete as a consequence of the warnings.

Some system mount tables -- e.g., Linux /proc/mounts -- don't have a dev=xxx option. In that case, and provided lsof for the dialect supports them, you can use the +m option to create a mount table supplement file and the "+m m" option to use it.

First check the lsof -h (help) output to see if the +m and "+m m" options are supported. If they are, use +m to create a mount table supplement file when all mounted file systems are accessible. Use "+m m" later to make the supplement available when some mounted file systems might not be available.

Here's an example that
creates a mount supplement file in
$HOME/mnt-sup and later makes it available to lsof.

```
$ rm -f $HOME/mnt-sup
$ lsof +m > $HOME/mnt-sup
...
$ lsof +m $HOME/mnt-sup <other lsof options>
```

If lsof has to get the device number from the supplement, it will issue an informative warning message. The warning can be suppressed with lsof's -w option.

Caution! Since the mount table supplement file is static, it is its supplier's responsibility to update it as file system mounts change.

For more information, consult the lsof man page. The "ALTERNATE DEVICE NUMBERS" section has useful information on how lsof acquires device numbers when stat(2) or lstat(2) fail.

3.46 Why won't lsof find open files on over-mounted file systems?

When a file system, /xyz for example, is mounted on the same mount point as another file system, /abc for example, running lsof with an argument of the path of the first file system's mount point -- the over-mounted one, /abc -- probably will not
reveal any files open on /abc.

That's because lsof looks for open files on a file system by looking for files with the file system's device number. The two file systems usually have different device numbers and lsof determines the device number search key from the supplied name of the second file system.

A general work-around exists only for Linux. On that UNIX dialect, when you know the over-mounted file system's mount point path, you can ask lsof to report on all open files and grep that output for the path of the over-mounted file system mount point.

3.47 What can be done when lsof reports no more space?

Many lsof methods cache information in memory, using the dialects malloc() library function. When malloc() can't allocate the requested amount of memory, lsof exits with warning messages similar to this AIX message:

```
lsof: no more dev-ch space at pid 2257750: 0x82a8e600
```

Lsof then exits immediately and produces no more output.

A possible work-around
is to increase the memory foot print
of the shell that runs lsof. That is often done with the ulimit(1) shell command.

3.48 What if the lsof build encounters ar and ld problems?

The lsof main and library Makefiles use the library archiver, ar, and the system loader, ld, applications. Improperly located, installed or configured versions of them may cause the lsof build to encounter errors with them.

The application producing the error should identify itself in its error messages.

The first thing to check the path of the application that is being used. Try `which ar` or `which ld` to see if perhaps the PATH used during the build might be causing the wrong archiver or loader to be used.

If the problem is with the use of the wrong archiver, and it's not possible to correct the PATH to it, try using the LSOF_AR environment variable to specify the path to and arguments for the correct archiver. See 00XCONFIG for more information and note that LSOF_AR must
specify the path to the archive
application and the arguments for it, less the terminating library and module name arguments.

If the problem is with the loader, there is no lsof work-

around. That's because lsof calls the loader via the C compiler, so the problem must be fixed at the compiler (system) level.

3.49 Why does lsof -i report an open socket file for a process, but lsof -p on that process' ID report nothing?

The lsof in use was probably built with the HASSECURITY and HASNOSOCKSECURITY options and the process in question does not belong to the user of lsof.

The HASSECURITY option limits lsof output to processes owned by the user invoking lsof and the HASNOSOCKSECURITY option weakens that slightly to allow output of open socket file information for all processes.

For example, if process PID 12345 is owned by some user other than the one invoking lsof, and lsof has been compiled with the HASSECURITY and HASNOSOCKSECURITY options, the following lsof command
will display the open socket files of process 12345:

```
$ lsof -p 12345 -a -i
```

This security restriction is described in the lsof(8) manual page.

4.0 AIX Problems

4.1 What is the Stale Segment ID bug and why is -X needed?

Kevin Ruderman reports that he has been informed by IBM that processes using the AIX 3.2.x, 4.1[.12345]], 4.2[.1], and 4.3.x kernel's readx() function can cause other AIX processes to hang because of what appears to be file system corruption.

This failure, known as the Stale Segment ID bug, is caused by an error in the AIX kernel's journaled segment memory handler that causes the kernel's dir_search() function erroneously to believe directory entries contain zeroes.
The process using the readx() call need not be doing anything wrong. Usually the system must be under such heavy load that the segment ID being used in the readx() call has been freed and then reallocated to another process since it was obtained from kernel memory.

Lsof uses the
readx() function to access library entry
structures, based on the segment ID it finds in the proc
structure of a process. Since IBM probably will never fix
the kernel bug, I've added an AIX-specific option to lsof
that controls its use of the readx() function.

By default lsof readx() use is disabled; specifying the
``-X'' option enables readx() use.

If you want to change the default readx() behavior of AIX
lsof, change the HASXOPT, HASXOPT_ROOT, and HASXOPT_VALUE
definitions in dialects/aix/machine.h. You can also use
these definitions to enable or disable readx() -- consult
the comments in machine.h. You may want to disable readx()
use permanently if you plan to make lsof publicly executable.

When HASXOPT_ROOT is defined, lsof will restrict use of
the -X option to processes whose real UID is root; if
HASXOPT_ROOT isn't defined, any user may specify the -X
option. The Customize script offers the option to change
HASXOPT_ROOT when HASXOPT is defined and HASXOPT_ROOT
is
named in any dialect's machine.h header file.

I have never seen lsof cause a problem with its use of
readx(), but I believe there is some chance it could, given
the right circumstances.

4.1.1 Stale Segment ID APAR

Here are the details of the Stale Segment ID bug and IBM's
response, provided by Kevin Ruderman.

```
AIX V3
  APAR=ix49183
     user process hangs forever in kernel due to file
     system corruption
  STAT=closed prs  TID=tx2527 ISEV=2 SEV=2
      (A "closed prs" is one closed with a Permanent
      ReStriction.)
  RCOMP=575603001 aix v3 for rs/6 RREL=r320

AIX V4  (internal defect, no apar #)
  prefix       p
  name         175671
  abstract     KERMP: loop for ever in dir_search()
```

Problem description:

1. Some user application -- e.g., lsof -- gets the segment ID (SID) for the process private segment of a target process from the process table.

2. The target process exits, deleting the process private segment.

3. The SID is reallocated for use as a persistent segment.

4. The user application runs again and tries to read the user area structure from /dev/mem, using the SID it read from the process table.

5. The loads done by the driver for /dev/mem cause faults in the directory; new blocks are allocated; the size changed; and zero pages created.

6. The next application that looks for a file in the affected directory hangs in the kernel's dir_search() function because of the zero pages. This occurs because the kernel's dir_search() function loops through the variable length entries one at a time, moving from one to the next by adding the length of the current entry to its address to get the address of the next entry. This process should end when the current pointer passes the end of the known directory length.

   However, while the directory length has increased, the entry length data has not, so when dir_search() reaches the zero pages, it loops forever, adding a length of zero to the current pointer, never passing the end of the directory length. The application process is hung; it can't be killed or stopped.

IBM closed the problem with a PRS code (Permanent ReStriction) under AIX Version 3 and had targeted a fix for AIX 4.2. They have recently (I became aware of it September 10, 1996) cancelled the defect report altogether and have indicated they are not going to fix the defect.

4.2 Gcc Work-around for AIX 4.1x

When gcc is used to compile lsof for AIX 4.1x, it doesn't align one element of the user structure correctly. Xlc

sees the U_irss element as a type "long long" and aligns
it on an 8 byte boundary. That's because the default mode
of xlc is -qlonglong; when -qlonglong is enabled, the
_LONG_LONG symbol is also defined.

Gcc sees U_irss as a two element array of type long, because
_LONG_LONG isn't defined. Hence gcc aligns the U_irss
element array on a 4 byte boundary, rather than an
8 byte
one, making the gcc incantation of the user structure 4
bytes shorter than xlc's.

When the length of gcc's user structure is supplied as
argument 4 to the undocumented getuser() function of the
AIX kernel, getuser() rejects it as an incorrect size and
returns EINVAL.

Lsof has a work-around for this problem. It involves a
special test in the Configure script when the "aixgcc"
Configure abbreviation is used -- e.g.,

```
$ Configure -n aixgcc
```

The test is to compile a small program with gcc and check
the alignment of U_irss. If it's not aligned on an 8 byte
boundary, the Configure script makes a special copy of
<sys/user.h> in ./dialects/aix/aix<AIX_version> whose
U_irss will align properly, and generates compile time
options to use it.

While I have tested this work-around only with 4.1.4, it
should work with earlier versions of AIX 4.1. It does not
work for AIX 4.2; a different work-around is employed there.
(See the next section.)

If you want to use this
technique to compile other AIX
4.1x programs with gcc for using getuser(), check the
Configure script.

Stuart D. Gathman identified this gcc AIX alignment problem.

4.3 Gcc and AIX 4.2[.1]

Alignment problems with gcc and AIX 4.2[.1] inside the user
structure are more severe, because there are some new 64
bit types in AIX that gcc doesn't yet (as of 2.7.x) support.
The <sys/user.h> U_irss element problem, discussed in 4.3

above, doesn't exist in 4.2[.1].

The AIX lsof machine.h header file has a work-around, provided by Henry Grebler, that bypasses gcc alignment problems. Later versions of gcc (e.g., 2.8.x) will probably bypass the problems as well.

4.4 Why won't lsof's Configure allow the use of gcc for AIX below 4.1?

Gcc can't reliably be used to compile lsof for AIX versions below AIX 4.1 because of possible kernel structure element alignment differences between it and xlc.

4.5 What is an AIX SMT file type?

When you run AIX X clients with the DISPLAY environment variable
set to ``:0.0'' they communicate with the AIX X
server via files whose kernel file structure has an undefined type (f_type == 0xf) -- at least there's no definition for it in <sys/file.h>.

These are Shared Memory Transport (SMT) sockets, an artifact of AIXWindows, designed for more efficient data transfers between the X server and its clients.

Henry Grebler and David J. Wilson alerted me to the existence of these files. Mike Feldman and others helped me identify them as SMT sockets.

The curious reader can find more about SMT sockets in /usr/lpp/X11/README.SMT.

4.6 Why does AIX lsof start so slowly?

When AIX lsof starts it compares the running kernel's identity to the one for which it was built, using /usr/bin/oslevel. That comparison can sometimes take a long time to complete, depending on the system's maintenance level and how recently it was examined with oslevel.

AIX revisions 4.67 and above for AIX 5 and above don't use oslevel to determine
the kernel identity. They use uname(2)
instead, and it is much faster.

You can skip the oslevel test by suppressing warning messages

with lsof's -w option. Doing that carries with it the risk
of missing other warning messages, however.

You can also disable the kernel identity check by disabling
the definition of the HASKERNIDCK symbol by editing AIX
machine.h header file or by using the Customize script to
disable it.

See the "Why does lsof warn "compiled for x ... y; this is
z.?" section for more information.

4.7 Why does exec complain it can't find libc.a[shr.o]?

When you try to execute lsof you may get this complaint:

```
    exec(): 0509-036 Cannot load program ./lsof because of
        the following errors:
     0509-022 Cannot load library libc.a[shr.o].
     0509-026 System error: A file or directory in
  the path name does not exist.
```

This is probably the result of making lsof when the LIBPATH
environment variable contained a directory path that doesn't
contain
libc.a. You can see what LIBPATH contained when
lsof was made by using the dump application on lsof. For
example, if LIBPATH contained /foo/bar when lsof was made,
you will see this (partial) dump output:

```
    $ dump -H lsof
    ...
  ***Import File Strings***
    INDEX  PATH                    BASE        ...
    0      /foo/bar
```

To correct the problem, revisit the lsof source directory
and remake lsof this way:

```
    $ unset LIBPATH; make  (sh or ksh)
or
    % unsetenv LIBPATH; make  (csh or tcsh)
```

4.8 What does lsof mean when it says, "no PCB, CANTSENDMORE,
CANTRCVMORE" in a socket file's NAME column?

When an AIX application calls shutdown(2) on an open socket
file, but hasn't called close(2) on the file, the file will
remain visible to lsof as an open socket file without any

extended protocol information.

Lsof reports that state in the NAME column by saying that there is "no PCB" (Protocol Control Block) for the protocol (e.g., TCP in the NODE column). If the open socket file has the state variables SO_CANTSENDMORE and SO_CANTRCVMORE set -- i.e., from the shutdown(2) call -- lsof reports them with the CANTSENDMORE and CANTRCVMORE notes in the NAME column.

4.9 When the -X option is used on AIX 4.3.3, why does lsof disable it, saying "WARNING: user struct mismatch; -X option disabled?"

The -X option causes lsof to read the loader information of the user structure from virtual memory via the readx() system call. It does that with the user structure definition from <sys/user.h> that was compiled into the lsof executable.

On AIX 4.3.3 there are two different user structure definitions in two separate <sys/user.h> header files, distributed at different times by IBM. If lsof was compiled with one and the kernel on which lsof is being run was compiled with the other, lsof normally won't get correct loader information when it calls readx().

In an attempt to compensate for that difference, lsof makes an independent check of the loader information by getting the user structure's open file count via readx() and comparing it to the open file count obtained independently via getprocs(). When the two counts don't match, lsof tries to read the count (and re-read the loader information) with two offsets, based on observed differences between the two user structures.

When one of the three attempts produces a correct open file count, lsof uses its corresponding offset on subsequent readings of the loader information.

When none of the three attempts produces a correct open file count, lsof issues the WARNING message and disables -X processing.

To eliminate this problem, obtain an lsof binary that matches the kernel of the AIX 4.3.3 system where you want to run lsof. Compiling lsof on the target system is the preferred way to get a matching binary.

4.10 Why doesn't the -X option work on my AIX 5L or 5.[123] system?

If your AIX 5L or 5.[123] system uses the ia64 architecture,
lsof
needs setuid-root permission to be able to do the
processing that -X requires.

Check the output of `uname -a` to determine the architecture
type.

The work-around is to give lsof setuid-root permission.

4.11 Why doesn't /usr/bin/oslevel report the correct AIX version?

The oslevel man page says, "The oslevel command reports
the level of the operating system using a subset of all
filesets installed on your system."

You can see which fileset is below the expected level with
oslevel's -l option. For example, if you believe your
system is at AIX level 4.3.3, but oslevel reports 4.3.2,
use this oslevel command to find the filesets below 4.3.3:

```
$ /usr/bin/oslevel -l 4.3.3.0
```

If you don't know what level argument to supply to oslevel's
-l option, use oslevel's -q option first.

4.11.1 Why doesn't /usr/bin/oslevel report the correct AIX version
on AIX 5.1?

The subset list for oslevel on AIX 5.1 seems to include at
least two filesets, xlsmp.msg.en_US.rte and xlsmp.rte,
that
do not install from AIX 5.1 media with a 5.1.0.0 level.
Hence, oslevel reports 5.0.0.0 instead of the expected
5.1.0.0.

If either xlsmp.msg.en_US.rte or xlsmp.rte is installed,
lsof's Configure script and run-time tests will identify
the AIX version incorrectly. The run-time test will
issue a complaint message of this form:

```
lsof: WARNING: compiled for AIX version xxx; this is yyy.
```

You can correct the Configure test by pre-defining the
oslevel value, setting the correct value in the LSOF_VSTR

environment variable before running the Configure script
-- e.g., to pre-define AIX 5.1 when using ksh, do this:

```
$ LSOF_VSTR=5.1.0.0 Configure -n aix
```

You can't affect oslevel output without uninstalling
xlsmp.msg.en_US.rte and xlsmp.rte. If you can't do that,
you'll have to put up with the run-time complaint.

4.12 Why does lsof for AIX 5.1 or above Power architecture
complain about kernel bit size?

When you run an lsof binary on an AIX 5.1 or above Power
system,
it might complain:

```
lsof: FATAL: compiled for a 32 bit kernel.
The bit size of this kernel is 64.
```

or

```
exec: 0509-036 Cannot load program ./lsof because of
 the following errors:
     0509-032 Cannot run a 64-bit program on a 32-bit
 machine.
```

Starting at lsof revision 4.61, lsof binaries for Power
architecture systems running AIX 5.1 or above are closely
tied to the kernel bit size. Lsof must do that so it can
read and understand kernel structures.

Lsof's Configure script tunes the lsof configuration so
that the binary built in the make(1) step is adjusted to
the kernel bit size.

An lsof binary knows the bit size for which it was constructed,
tests the bit size of the kernel under which it is running,
and objects if the two sizes don't match. To see the bit
size for which lsof was constructed, run it with its -v
option and look for these lines in the output:

```
configuration info: 32 bit kernel
```

or

```
configuration info:
64 bit kernel
```

(Note: these lines will appear only in -v output for AIX
5.1 and above lsof binaries, built for Power architecture.)

You can see the kernel bit size test method in the aix

stanza of the lsof Configure script and in the get_kernel_access() function of the lsof .../dialects/aix/dproc.c source file.

There is more information on pre-defining the kernel bit size when building lsof in Configure, 00PORTING, and 00XCONFIG.

The only work-around is to use an lsof binary built to match the running kernel bit size.

4.13 What can't gcc be used to compile lsof on the ia64 architecture for AIX 5 and above?

Gcc can't be used to compile lsof on the ia64 architecture for AIX 5 and above because I haven't had access to a system that has a working gcc compiler. The gcc compiler on my one and only ia64 AIX 5.1 test system, provided by IBM, didn't work at all.

4.14 Why does lsof get a segmentation fault when compiled with gcc for a 64 bit Power architecture AIX 5.1 kernel?

When
lsof is configured with the lsof "aixgcc" Configure abbreviation, the resulting lsof executable may cause a segmentation violation when it is run. I've observed this with gcc version 2.9-aix43-010414-7.

As far as I have been able to tell, the segmentation fault is the result of a gcc compilation, loading, or library error. Watching lsof run with gcc's companion debugger, gdb, shows no error in the lsof source code that might explain the fault.

The only work-around I know is to use the IBM C compiler in place of gcc -- i.e., use the "aix" lsof Configure abbreviation.

4.15 Why does lsof ignore AFS on my AIX system?

The lsof Configure script quits on AIX when AFS is present, the AIX version is greater than 4.3.3.0 or the AFS version is greater than 3.5. That's because I have no test systems available for those AIX and AFS version combinations.

When the lsof Configure script detects an AIX and AFS version combination that is unsupported, it will report:

```
!!!FATAL: Lsof does not support AFS on this combination of
    AIX and AFS versions.  To disable AFS, set the
    value of the AIX_HAS_AFS environment variable to
    "no".
```

The only work-around is to set the AIX_HAS_AFS environment variable as explained in the error message:

```
$ AIX_HAS_NSF=no; export AIX_HAS_NFS
$ ./Configure -n aix
```

4.16 Why does lsof report "system paging space is low" and exit?

When AIX paging space runs low, the AIX kernel sends a SIGDANGER signal to processes, warning them that they should reduce their memory usage.

When lsof receives that signal, it issues the following fatal error message and exits:

```
lsof: FATAL: system paging space is low.
```

A possible work-around is to limit the amount of information lsof must cache in its process memory with the "-c", "-g", "-l" and "-p" options.

Also see the answer to the "What can be done when lsof reports no more space?" question.

4.17 Why does lsof have a compilation problem on AIX 5.3 above maintenance level 1?

On some AIX 5.3 systems with maintenance levels 2 and higher installed, lsof 4.77 and below may not compile properly. The compiler complains the snapshotObject structure definition, needed by <j2/j2_inode.h>, is missing.

That problem is fixed in the 4.78 revision.

5.0 Apple Darwin Problems

5.1 What do /dev/kmem-based and libproc-based mean?

Lsof for Apple Darwin currently uses /dev/kmem to read kernel data structures from which it gathers and reports open file

information. That version of lsof is called /dev/kmem-based
lsof.

At an upcoming release lsof will use a library called libproc
to obtain information about open files. That version of lsof
wil be called libproc-based lsof.

The /dev/kmem-based lsof sources may be found in the kmem
subdirectory of the dialects/darwin branch of the lsof source
tree. When the supporting version of Apple Darwin is released,
the libproc-based lsof sources will be found in
.../dialects/darwin/libproc.

5.2 /dev/kmem-based
Apple Darwin Questions

5.2.1 Why does Configure ask for a path to the Darwin XNU kernel header files?

When lsof was ported to Apple Darwin by Allan Nathanson at
revision 4.53, some kernel header files needed by lsof
weren't being exported by the developers. (That's still
true at lsof revision 4.76.)

At first a shell script that Allan provided would get the
missing header files by checking them out from the CVS
root. Although the script was updated from time to time,
eventually the re-organization of Darwin sources has made
it impossible to update the script to do an automatic
download of the missing header files.

At lsof revision 4.69 and above it is necessary for the Darwin
lsof builder to download the Darwin XNU kernel headers before
attempting to build lsof. The download my be done via a web
browser, starting at this URL:

    http://www.opensource.apple.com/darwinsource/index.html

Once there, select the link to the Mac OS
X version that
matches the one on the system where lsof is to be built.

Follow that link's "[Source]" link. Once there, select the
tar.gz link of the xnu* entry near the bottom of the page.
That entry should have a name that matches the xnu* name shown
by `uname -a` -- e.g., if uname reports:

```
$ uname -a
```

... root:xnu/xnu-517.7.21 ...

Then the appropriate xnu* entry is xnu-517.7.21. Clicking its link should lead to an "Apple Open Source" page requesting an Apple ID and password.

Enter them if they're available. If an Apple ID and password are not available, get them by following the instructions on the page -- i.e., follow the signin.apple.com link.

Once a valid Apple ID and its password have been entered, the download will begin. Select the saving of the downloaded xnu*.tar.gz file in an appropriate place on the Mac OS X system.

Once the download completes, install it. Use gunzip to decompress the download and tar to extract the archive -- e.g.,

```
$ gunzip -c xnu-517.7.21.tar.gz | tar xf -
```

Remember the absolute path to the extracted archive. That is its installed place. E.g., if the xnu-517.7.21.tar archive was extracted to the lsof builder's home directory, its full installation path will be something like:

~/xnu-517.7.21

Now run the lsof Configure script. When it asks for the path to the installed Darwin XNU kernel header files, supply the path to the gunzip'd and extracted xnu* archive -- e.g., ~/xnu-517.7.21.

The path to the Darwin XNU kernel headers may also be supplied to the Configure script in the DARWIN_XNUDIR environment variable, eliminating the need to enter it interactively -- e.g.,

```
$ DARWIN_XNUDIR=~/xnu-344.49 ./Configure -n darwin
```

5.2.1.1 Why does Configure complain that Darwin XNU kernel header files are missing?

These are some reasons why the lsof Configure script might claim that Darwin XNU header files are missing:

* The wrong path to them was specified.

*
The files and directories in the path are not readable
and searchable -- i.e., check the modes and ownerships.

* The downloaded archive doesn't match the Mac OS X
version of the system.

If in doubt, revisit the Darwin XNU kernel header file
download instructions in the answer to the question "Why
does Configure ask for a path to the Darwin XNU kernel
header files?"

If Configure still can't find Darwin XNU kernel header
files, contact me via e-mail at <abe@purdue.edu> for help.
Make sure "lsof" appears in the "Subject:" line so my e-mail
filter won't classify your letter as Spam.

5.2.2 Why doesn't Apple Darwin lsof report text file information?

At the first port of lsof to Apple Darwin, revision 4.53,
insufficient information was available -- logic and header
files -- to permit the installation of VM space scanning
for text files. As of lsof 4.70 it is sill not available.

Text file support will be added to Apple Darwin lsof after
the necessary information
becomes available.

5.2.3 Why doesn't Apple Darwin lsof support IPv6?

At the first port of lsof to Apple Darwin, revision 4.53,
Apple Darwin lacked IPv6 support. IPv6 became available
in Apple Darwin version 1.5 and support for it was added
to lsof then.

5.2.4 Why does lsof complain about a mismatch between the release
for which lsof was compiled and the booted Mac OS X release?

When lsof is started on the "Gold Master" Darwin release
(aka Mac OS X), it complains:

lsof: compiled for 1.0 release; this is 1.3.2.

This happens because the lsof binary released with Mac OS
X was built on a system whose release number (1.0) doesn't
match that of the released system -- usually 1.3.x Lsof
makes this check because UNIX dialect OS changes are often
accompanied by header file changes that affect lsof.

In this specific case, this error can be ignored. If you
don't want to do that, get the lsof distribution and build
lsof so its built-on and running-on Mac OS X
release numbers
match.

5.2.5 Why does lsof for Apple Darwin 8 and higher report
"stat(...): ..." in the NAME column?

Lsof for Apple Darwin 8 may report messages like these in the
NAME column:

```
   stat(/private/var/run/asl_prune): No such file or directory
 or
   stat(/private/var/db/netinfo/local.nidb/Config): Permission denied
```

Those messages indicate that lsof was unable to collect open
file information for the paths enclosed in "stat(...)" with the
stat(2) function, because the function encountered the reported
error.

A work-around for the "Permission denied" error is to run lsof
with elevated privileges -- e.g., when logged on as the super
user.

If the stat(2) error message is "No such file or directory",
the file probably has been unlinked (removed) and there is no
lsof work-around.

5.2.6 What are the limitations of Apple Darwin lsof link count
reporting?

Lsof for Apple Darwin cannot report link count information
reliably.

For Apple Darwin below 8 link
count information is not always
available in the kernel node structures available to lsof.
When link count information is available, however, it includes
link counts of zero. Thus, using lsof's +L1 option may result
in the finding of some files whose link counts are zero.

Lsof can report only some link count information for Apple
Darwin 8 and above. Link count information is only available
for files where lsof can assemble the full file path and has
permission to apply stat(2) to it. (See the answer to the "Why
does lsof for Apple Darwin 8 and higher report "stat(...): ..."

in the NAME column?" question for more information on stat(2) failures.)

Apple Darwin 8 and above files that have been unlinked and thus have a link count of zero cannot be found by stat(2) -- i.e., stat(2) returns a "No such file or directory" error. As a result lsof never displays link counts of zero and the use of lsof's +L1 option to find them always fails.

5.2.7 Why does Apple Darwin report process group IDs incorrectly?"

The kmem version of lsof for Apple Darwin does not report process group IDs correctly when requested to do so with its ``-g" option. This is a bug that surfaced after the libproc version was released and access to kmem test systems has prevented patching the bug.

If you are using the kmem version and would like a fix for this problem, please send e-mail to me <abe@purdue.edu>. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

5.3 Libproc-based Apple Darwin Questions

6.0 BSD/OS BSDI Problems

6.0.5 Statement of deprecation

As of lsof revision 4.76 support for BSDI BSD/OS has been dropped. The 4.76 distribution of lsof for BSDI BSD/OS may be found on lsof.itap.purdue.edu in pub/tools/unix/lsof/OLD/src.

7.0 DEC OSF/1, Digital UNIX, and Tru64 UNIX Problems

7.1 Why does lsof complain about non-existent /dev/fd entries?

When you run lsof for Digital UNIX 3.2, lsof may complain:

```
lsof: can't lstat /dev/fd/xxx: No such file or directory
lsof: can't lstat /dev/fd/yyy: No such file or directory
```

(Or it may warn about other missing /dev/fd paths.) When you do an ``ls /dev/fd" none of the missing paths are listed.

This is caused by a bug in the DEC library function getdirentries(). For some reason, when /dev/fd is a file system mount point, getdirentries() returns an incorrect size for it to readdir(). (Lsof calls readdir() in its ddev.c readdev() function.) Because of the incorrect size, readdir() goes past the end of the /dev/fd directory buffer, encounters random paths and returns them to lsof. Lsof then attempts to lstat(2) the random paths, gets error replies from lstat(2), and complains about the paths.

Duncan McEwan discovered this error and has reported it to DEC. Duncan also supplied an alternate readdir() function as a work-around. I've incorporated his readdir() in dialects/osf/ddev.c (as the static ReadDir() function) with
some slight modifications, and enabled its use when the USELOCALREADDIR symbol is defined.

The Configure script defines USELOCALREADDIR for Digital UNIX version and 3.2. If you don't want to use Duncan's local readdir() function, edit the Makefile and remove -DUSELOCALREADDIR from the CFGF string. When DEC releases a corrected getdirentries() function, I'll modify the Configure script to stop defining USELOCALREADDIR.

7.2 Why does the Digital UNIX V3.2 ld complain about Ots* symbols?

When you compile lsof on your Digital UNIX V3.2 system, ld may complain:

```
ld:
Unresolved:
knlist
_OtsRemainder32Unsigned
_OtsDivide64Unsigned
_OtsRemainder64Unsigned
_OtsDivide32Unsigned
_OtsMove
_OtsDivide32
_OtsRemainder32
*** Exit 1
```

Chris Eleveld reports this happens on Digital UNIX V3.2 systems after the Fortran compiler has been installed.

The best work-around seems to be to remove -lmld from the CFGL string in the Makefile

produced by Configure -- i.e.,
change:

```
   CFGL=    -lmld
to
   CFGL=
```

According to the V3.2 man page for nlist(3), this shouldn't work, but my testing shows that it does. Although I haven't been able to test this second work-around, you might try adding -lots to CFGL, rather than removing -lmld -- i.e., change:

```
   CFGL=    -lmld
to
   CFGL=    -lmld -lots
```

WARNING: my testing also shows that the V2.0 nlist(3) man page means what it says when it calls for -lmld -- lsof loaded without -mld under V2.0 can't locate the proc (process) table address.

DON'T REMOVE -lmld FROM THE DIGITAL UNIX V2.0 MAKEFILE.

If you run into this problem, please let me know what problem you encountered and how you solved it.

7.3 Why can't lsof locate named pipes (FIFOs) under V3.2?

While lsof for V3.2 can report on named pipes (FIFOs), it can't find them by name. That appears to happen because of the way the V3.2 kernel lstat(2) function reports named pipe device numbers.

The
V3.2 kernel reports the device number as 0xffffffff, while the kernel structures for named pipes that lsof examines contain the device number of the file system on which the named pipe resides.

Consequently, lsof can't match the device and inode number pair it receives from applying lstat(2) to the named pipe with any device and inode number pair it finds when scanning kernel structures.

I don't have a work-around. You can, of course, ask for full lsof output and use a post-processing filer (e.g., grep) to locate the named pipe of interest.

This problem doesn't exist under V2.0.

7.4 Why does lsof use the wrong configuration header files?
For example, why can't the lsof compilation find cpus.h?

DEC OSF/1, Digital UNIX, and Tru64 UNIX configuration header files describe the hardware and software environment for which your kernel boot file was constructed. For example, /sys/<name>/cpus.h defines the number of CPUs in its NCPUS #define.

Lsof searches for the configuration header file subdirectory in /sys (/usr/sys for Digital UNIX version 4.0 and Tru64 UNIX) by converting the first host name component to capital letters -- e.g., TOMIS is derived from tomis.bio.purdue.edu. If that subdirectory exists, lsof uses header files from it. (Configure reports what subdirectory is being used.)

If Configure doesn't find a host-name derived subdirectory, it prompts you for the entry of a subdirectory name. If you can't find one, quit Configure and run the kernel generation process to create a proper configuration subdirectory. If you don't identify a proper configuration subdirectory and you try to compile lsof, the compiler will complain about missing header files -- e.g., a missing cpus.h.

Once you have located or generated a proper configuration subdirectory, rerun Configure. If you have generated a configuration subdirectory whose name is derived from the host name, Configure will find and use it. If not, you will have to specify its name to Configure.

7.5 Why does lsof indicate incomplete paths with " -- " for Tru64 UNIX 5.1 files?

When lsof can't find a component of a path in the kernel's name cache (aka DNLC), or can't determine that the left-most component has as its parent the file system root, it uses an "incomplete path" notation. That notation begins with the file system root name, followed by " -- ", followed by the consecutive path name components lsof was able to find in the DNLC -- e.g., "/ -- init".

Because the DNLC was significantly redesigned in Tru64 UNIX

5.1, lsof's handling of the cache had to be completely
redone. As part of the DNLC redesign a name cache entry
parameter lsof formerly used to locate the file system root
of a path was removed. With help from Chang Song I've been
able to implement an alternate method for detecting the
root of these file system types: AdvFS (MSFS), CDFS, DVDFS,
FDFS, NFS, NFS3, and UFS.

When lsof doesn't know how to identify
the root for a file
system type, it will resort to the " -- " incomplete path
notation.

7.6 Why doesn't lsof report link count, node number, and size
for some Tru64 5.x CFS files?

Lsof reports link count, node number, and size for open
CFS files as recorded in their kernel node structure's
cached attributes. Sometimes not all attributes are cached
on the system where lsof runs, so lsof cannot report them.

7.7 Why does lsof say it can't read the kernel name list or
proc table on Digital UNIX 4.x or Tru64 UNIX?

By default on Digital UNIX 4 and Tru64 UNIX lsof reads the
addresses for kernel symbols with the knlist(3) function.
That function can fail, for example, when the kloadsrv
daemon isn't running or is malfunctioning. When that
happens, lsof may abort with one of these error messages:

```
lsof: can't read kernel name list from knlist(3): ...
or
lsof: can't read proc table info
```

The first message suggests a complete knlist(3) or kloadsrv
failure;
the second, a partial one.

If you know the name of the file from which the running
system was booted, e.g., /vmunix, you can use lsof's -k
option to direct it to read kernel symbol addresses from
the name list of that file --

```
$ lsof -k /vmunix ...
```

If that works, then knlist(3) is malfunctioning and you
need to fix it.

8.0 FreeBSD Problems

8.1 Why doesn't lsof report on open kernfs files?

Lsof doesn't report on open FreeBSD kernfs files because the structures lsof needs aren't defined in the kernfs.h header file in /sys/misc/kernfs.

8.2 Why doesn't lsof work on my FreeBSD system?

If lsof doesn't work on your FreeBSD system, first make sure you have the latest lsof revision. See the answer to the "Where do I get lsof?" question for information on how to get the latest lsof revision.

Once you have gotten the latest lsof revision, Configure and make it. If Configure fails -- e.g., it complains about an unknown FreeBSD version -- then lsof probably hasn't
been ported to your FreeBSD version yet, and there's no need to go any further. Follow the answer to the "How do I report an lsof bug" to report the Configure complaint to me.

If you are able to Configure and make lsof, run its test suite. (See the answer to the "Is there a test suite?" question for more information on how to use lsof's test suite.)

If lsof still fails, make sure your kernel sources, kernel header files, kernel boot file, standard header files and libraries are synchronized. They should all be built from the same CVS refresh. (Don't forget to do a "make buildworld" followed by a "make installworld".) If they aren't, then the KVM library or lsof may be using kernel structure definitions that don't match the booted kernel; or lsof may fail to compile properly because of header files in /usr/src/sys/sys and /usr/include/sys that don't match.

If you have synchronized your kernel, header files and libraries, and still can't get lsof to work, follow
the
steps in the answer to the "How do I report an lsof bug" question to report the problem to me.

8.3 Why doesn't lsof work on the RELEASE version of CURRENT?

Lsof tracks the CURRENT release of the current leading edge FreeBSD version, because my access to leading edge FreeBSD is limited to FreeBDSD.org reference systems, all running the CURRENT release.

Sometimes that tracking leads to changes in lsof that won't work on an earlier RELEASE version of the current leading edge version.

When that happens, please send e-mail to me <abe@purdue.edu>. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

8.4 Why does kvm_open() complain it can't find some file?

If lsof issues this complaint:

```
lsof: kvm_open(execfile=/boot/kernel/kernel,
corefile=/dev/mem: No such file or directory
```

Your FreeBSD system might not have a /dev/mem device. If not, create one -- e.g., as root do:

```
# mknod /dev/mem c <major> 0

# chmod 440 /dev/mem
# chgrp kmem /dev/mem
```

For <major> use /dev/kmem's major device number.

You may have to run kldload, too -- again as root do:

```
# kldload mem
```

8.5 FreeBSD ZFS Problems

8.5.1 Why does FreeBSD lsof report "WARNING: no ZFS support has been defined."?

Lsof issues that message when it detects a file on a ZFS file system, but has not been built with support for ZFS. Lsof's Configure script detects support can be added for ZFS when it finds this file:

/usr/src/sys/contrib/opensolaris/uts/common/fs/zfs/sys/zfs_znode.h

That header file and others in the OpenSolaris files in /usr/src enable lsof to extract information about ZFS files

from the kernel structures associated with them.

8.6 Why can't Configure create lsof_owner.h for FreeBSD 6 and above?

Lsof may report:

```
   Creating ./lockf_owner.h from /usr/src/sys/kern/kern_lockf.c
   FATAL ERROR: can't read /usr/src/sys/kern/kern_lockf.c
   FATAL ERROR: ./lockf_owner.h creation failed (see
00FAQ)
or
   Creating ./lockf_owner.h from /usr/src/sys/kern/kern_lockf.c
   FATAL ERROR: ./lockf_owner.h creation failed (see 00FAQ)
```

Those messages mean that lsof's Configure script failed to create a local header file, ./lockf_owner.h, needed to use the new kernel file locking code of some versions of FreeBSD 6 and above.

The changes that implement that new locking code alter the lockf structure in <sys/lockf.h> and introduce a new structure, lockf_entry, to that header file. When Configure detects the presence of the lockf_entry definition in <sys/lockf.h>, it tries to construct the local header file, ./lockf_owner.h.

Configure has to do that because an unfortunate side effect of the new kernel file locking code is that <sys/lockf.h> doesn't contain the lockf_owner structure definition referenced in its own lockf structure. Lsof needs to access elements of that lockf_owner structure to determine if a lock belongs to the process that has a file open.

The missing lockf_owner structure definition is in the kernel source file, typically /usr/src/sys/kern/kern_lockf.c. Configure tries to extract the lockf_owner structure definition from kern_lockf.c into lsof's local header file, ./lockf_owner.h. If Configure can't do that, it reports:

```
   FATAL ERROR: ./lockf_owner.h creation failed
```

If Configure can't even read kern_lockf.c, it first reports:

```
   FATAL ERROR: can't read /usr/src/sys/kern/kern_lockf.c
```

The work-around for this problem is to update the FreeBSD kernel /usr/src tree (e.g., do a CVSup or csup) on the system where lsof is to be built and then do a "make buildworld"

followed by a "make installworld".

8.6.1 Why are there lockf structure compiler errors for FreeBSD 6.0 and higher lsof?

If, when compiling lsof, the compiler complains with error messages like:

```
dnode.c: In function 'get_lock_state':
dnode.c:113: error: 'struct lockf' has no member named 'lf_flags'
dnode.c:115: error: 'struct lockf'
has no member named 'lf_id'
...
```

Then lsof is being built on a system that has new kernel file locking code and lsof's Configure script failed to build a local lockf_owner.h header file with a structure definition lsof needs.

See the "Why can't Configure create lsof_owner.h for FreeBSD 6 and above?" section for more information and a work-around.

8.6.2 Why don't /usr/src/sys/sys/lockf.h and /usr/include/sys/lockf.h match?

This mismatch can cause the errors explained in the answer to the "Why are there lockf structure compiler errors for FreeBSD 6.0 and higher lsof?" question.

If /usr/src/sys/sys/lockf.h has been updated with a CVSup or csup, the new lockf.h won't be propagated to /usr/include/sys until the "make buildworld" and "make installworld" steps have been completed.

8.7 FreeBSD and clang

As of lsof revision 4.87, lsof may be compiled with clang.

8.7.1 Why does clang complain about VOP_FSYNC?

There is an error in the Solaris ZFS compatibility
vnode.h
header file with use of VOP_FSYNC before it is defined. No work-around is possible that will eliminate the clang compile-time warning message about the invalid declaration of the VOP_FSYNC function.

9.0 HP-UX Problems

9.1 What do /dev/kmem-based and PSTAT-based mean?

Lsof for HP-UX 11.0 and below uses /dev/kmem to read kernel data structures from which it gathers and reports open file information. That version of lsof is called /dev/kmem-based lsof.

Starting with HP-UX 10.10, finding definitions for the necessary kernel structures became more difficult as HP no longer distributed header files in /usr/include that defined all kernel structures. So I started "inventing" structure definitions by using Q4 to display them.

By HP-UX 11, the process of invention became extremely intensive to support. Following a patch to the ipc_s structure in early 1999, my invented definition of that structure became incorrect. Although I was able to devise a work-around
test for the patch with Q4, it was clear that
my inventions were bound to cause more problems.

Discussion with HP about the patch led to my proposing that an lsof API in the HP-UX kernel was the proper solution. Much to my surprise, HP agreed. I believe Carl Davidson was the prime mover behind that decision, but I know others participated, among them Louis Huemiller, Rich Rauenzahn, and Sailu Yallapragada. I am indebted to these folks and HP for their willingness to do this work.

The API was added to the PSTAT interface in a project named PEGL, Pstat Enhancements for Glance and Lsof. Louis and Sailu did the bulk of the design and implementation work and testing began in March, 2000

HP-UX 11.11 is the first version that provides PSTAT support for lsof. HP-UX versions in between 11.0 and 11.11 -- all Beta versions as far as I can determine -- have no lsof support.

See the "PSTAT-based HP-UX lsof Questions" section for questions and answers specific to PSTAT-based
HP-UX lsof.
The next section, "Why doesn't a /dev/kmem-based HP-UX lsof compilation use -O?" covers /dev/kmem-based HP-UX lsof.

The /dev/kmem-based lsof sources may be found in the kmem

subdirectory of the dialects/hpux branch of the lsof source
tree. The PSTAT-based lsof sources may be found in
.../dialects/hpux/pstat.

9.2 /dev/kmem-based HP-UX lsof Questions

The sources for /dev/kmem-based lsof for HP-UX may be found
in lsof_<revision>/dialects/hpux/kmem.

Lsof's Configure shell script decides to use these sources
when it finds that the /usr/include/sys/pstat subdirectory
doesn't exist.

Lsof can be forced to use the /dev/kmem sources by setting
"/dev/kmem" in the HPUX_BASE environment variable. Consult
the Configure shell script and 00XPORTING for more information.

9.2.1 Why doesn't a /dev/kmem-based HP-UX lsof compilation use -O?

If you only have the standard (bundled) HP-UX C compiler
and haven't purchased and installed the optional one, then
you can't use
cc's -O option. The HP-UX cc(1) man page
says this:

"Options
Note that in the following list, the cc and c89 options
-A , -G , -g , -O , -p , -v , -y , +z , and +Z are
not supported by the C compiler provided as part of
the standard HP-UX operating system. They are supported
by the C compiler sold as an optional separate product."

Lsof's Configure script tries to detect what C compiler
product you have installed by examining your compiler. If
that examination reveals a standard (bundled) compiler,
lsof avoids using -O.

If the Configure compiler test fails, the C compiler will
complain that it doesn't support -O. You can suppress that
complaint with this make invocation:

```
$ make DEBUG=""
```

9.2.2 Why doesn't the /dev/kmem-based CCITT support work under 10.x?

Pasi Kaara, who originally provided the HP-UX CCITT support,
reports that it no longer works under HP-UX 10.x.
Consequently, at lsof revision 4.02 it has been disabled.

9.2.3 Why
can't /dev/kmem-based lsof be compiled with `cc -Aa` or
`gcc -ansi` under HP-UX 10.x?

Some HP-UX 10.x header files, needed by lsof, can't be
compiled properly in ANSI_C mode; structure element definition
and alignment problems result. The f_offset member of the
file structure, for example, is incorrect.

This ANSI-C obstacle extends to using the -Aa option of
the HP C compiler and the -ansi option of gcc.

9.2.4 Why does /dev/kmem-based lsof complain about no C compiler?

Lsof's Configure script looks in /bin and /usr/ccs/bin for
an HP C compiler, because it needs to know if the compiler
is the standard (bundled) one or the optional separate
product. If it finds no compiler in either place, Configure
quits after complaining:

```
No executable cc in /bin or /usr/ccs/bin
```

If you don't have a C compiler in either of these standard
places, you should consider installing it. If you have
gcc installed, you can use it by declaring the ``hpuxgcc''
abbreviation to lsof's
Configure script.

If you have a C compiler in a non-standard location, you
can use the HPUX_CCDIR[12] environment variables to name
the path to it. Consult the 00XCONFIG file of the lsof
distribution for more information.

9.2.5 Why does Configure complain about q4 for /dev/kmem-based lsof
for HP-UX 11?

When you run Configure on an HP-UX 11 system, it may complain:

```
!!!ERROR!!!    !!!ERROR!!!    !!!ERROR!!!    !!!ERROR!!!
Configure can't use /usr/contrib/bin/q4 to examine the ipis_s
structure.  You must do that yourself, report the result in
the HPUX_IPC_S_PATCH environment variable, then repeat the
Configure step.  Consult the Configure script's use of
/usr/contrib/bin/q4 and the 00XCONFIG file for information
on ipis_s testing and the setting of HPUX_IPC_S_PATCH.
!!!ERROR!!!    !!!ERROR!!!    !!!ERROR!!!    !!!ERROR!!!
```

This message states that Configure cannot use q4 from
/usr/contrib/bin to examine the kernel's boot image for
the ipis_s
structure. Maybe q4 hasn't been installed, or
perhaps Configure can't execute it.

Lsof needs to gather information about ipis_s to determine
if the ipis_s structure is defined in the kernel boot image,
if the ipis_s structure of the kernel boot image has an
ipis_msgsqueued member, and if the ipc_s structure of the
kernel boot image uses has an ipc_ipis member.

The ipis_s structure isn't described in any header file
HP-UX releases with HP-UX 11. It appears in the private
lsof header file .../dialects/hpux/kmem/hpux11/ipc_s.h.
Lsof gets local and remote connection addresses (IP and
port numbers) from ipc_s, so an incorrect ipc_s definition
may cause incorrect reporting of TCP/IP connection addresses.
It definitely will cause incorrect reporting on 32 bit
kernels. In any case lsof should be compiled with a correct
ipc_s definition no matter the kernel bit size, so the
Configure script always tests for it when the HP-UX version
is 11.

For lsof's Configure script
to gather the necessary ipis_s
information q4 needs to be installed in /usr/contrib/bin
and the kernel boot image, /stand/vmunix, needs to have
been processed with pxdb. If either is untrue, lsof issues
the above error message, perhaps preceded by q4 messages.
(Note: lsof's use of q4 may also fail if q4 can't execute
nm -- e.g., it can't find /usr/bin/nm, or there is a
conflicting, private version of nm earlier in the path.)

If /stand/vmunix hasn't been processed by pxdb, the q4
messages will include:

    q4: (error) vmunix not pxdb'd
or
    q4: (warning) /stand/vmunix has not been processed by pxdb.

It's possible to make a suitable private copy of /stand/vmunix
for configuring lsof. That requires /opt/langtools/bin/pxdb
or the q4 version of pxdb from /usr/contrib/bin/q4pxdb.
The path to the result is supplied to the lsof Configure
script in the HPUX_BOOTFILE environment variable. Configure
still requires /usr/contrib/bin/q4.

The following sample Bourne shell
commands make a private
copy of /stand/vmunix in /tmp, process it with pxdb or
q4pxdb, and supply its path to lsof's Configure script in
HPUX_BOOTFILE.

```
$ cp /stand/vmunix /tmp/vmunix.lsof

$ /opt/langtools/bin/pxdb /tmp/vmunix.lsof
or
$ /usr/contrib/bin/q4pxdb /tmp/vmunix.lsof

... pxdb messages ...
$ HPUX_BOOTFILE=/tmp/vmunix.lsof Configure -n hpux
```

It may also be necessary to use q4 outside the lsof Configure
script. In that case q4 can be to determine the state of
ipis_s and ipc_s with these q4 commands:

```
$ /usr/contrib/bin/q4 /stand/vmunix
...
q4> fields -c struct ipc_s
...
q4> fields -c struct ipis_s
```

Look in the q4 output for the ipc_ipis member of the ipc_s
structure, and look in the q4 output for the ipis_s structure
for the ipis_msgsqueued member. If ipc_s has ipc_ipis but
ipis_s lacks ipis_msgsqueued, set HPUX_IPC_S_PATCH environment
variable to "1". If ipc_s has ipc_ipis and ipis_s has
ipis_msgsqueued, set
HPUX_IPC_S_PATCH to "2" -- e.g.,

```
$ HPUX_IPC_S_PATCH=1 Configure -n hpux
or
$ HPUX_IPC_S_PATCH=2 Configure -n hpux
```

If ipc_s has no ipc_ipis member, set HPUX_IPC_S_PATCH to
"N" -- e.g., use this Configure step:

```
$ HPUX_IPC_S_PATCH=N Configure -n hpux
```

9.2.6 When compiling /dev/kmem-based lsof for HP-UX 11 what do the
"aCC runtime: ERROR..." messages mean?

When the lsof Makefile asks the HP-UX unbundled compiler
to load lsof, it may complain:

```
    /bin/cc -o lsof  -DHPUXV=1100 -DHASVXFS -DHPUXKERNBITS=64 \
 -I/home/abe/src/lsof4/dialects/hpux/kmem/hpux11 +DD64 \
 -DHAS_IPC_S_PATCH=2 -I/home/abe/src/lsof4/dialects/hpux/kmem \
 -DLSOF_VSTR=\"B.11.00\"  -g dfile.o dmnt.o dnode.o dnode1.o \
 dnode2.o dproc.o dsock.o  dstore.o  arg.o main.o misc.o \
 node.o print.o proc.o store.o usage.o -L./lib -llsof  -lelf \
 -lnsl
    aCC runtime: ERROR: Unexpected use of shared libraries
    aCC runtime: ERROR: Read aCC manpage, +A option
    /usr/lib/nls/loc/locales.1//is_IS.iso88591
```

This
is a bug in the HP-UX national language support.
(Notice the last message with "locales" in it?) Complain
to HP -- then use this work-around before executing make:

```
    $ unset LANG
    $ make
```

9.2.7 Why doesn't /dev/kmem-based lsof for HP-UX 11 report VxFS file link counts, node numbers, and sizes correctly?

This is usually the result of running an lsof binary whose revision number is less than 4.57 on a system that has OnlineJFS support installed. It can also happen with lsof 4.57 binaries when the OnlineJFS support with which they were built doesn't match the OnlineJFS status of the system on which they are run.

The OnlineJFS status of lsof 4.57 and higher binaries can be determined by running:

```
    $ lsof -v 2>&1 | grep HASONLINEJFS
```

If that shell pipe produces output, lsof was compiled with OnlineJFS support enabled; no output, disabled.

If OnlineJFS is installed on an HP-UX 11 system the /sbin/fs/vxfs/subtype executable exists and outputs
"vxfs3.3"
when run.

The problem occurs because the optional OnlineJFS support installation doesn't update <sys/fs/vx_inode.h>. Consequently lsof can be compiled with an incorrect definition of the vx_inode structure and look for for link counts, node numbers, and sizes in the wrong places in the structure.

The current response I have gotten from HP is that no
<sys/fs/vx_inode.h> update will be provided for OnlineJFS.

I've addressed this problem temporarily with a work-around
(hack) in lsof revision 4.57.

9.2.8 Why can't /dev/kmem-based lsof be built with gcc for 64 bit
HP-UX 11?

When Configure is given the "hpuxgcc" abbreviation, the
HP-UX version is 11, and the kernel bit size is 64, the
lsof Configure script may abort with the messages:

```
!!!!!!!!!!!!!!!!! FATAL ERROR !!!!!!!!!!!!!!!!!!

APPARENTLY GCC CANNOT BUILD 64 BIT EXECUTABLES.
A COMPILER MUST BE USED THAT CAN.  SEE 00FAQ
FOR MORE INFORMATION.
```

(This is the "more information" in 00FAQ.)

This
means the Configure script compiled a test program
with gcc the result wasn't an ELF-64 binary. Lsof tries
two gcc modes, one with no options and another with the
-mlp64 option, before it concludes gcc can't be used.

See the "How can I acquire a gcc for building lsof for 64
bit HP-UX 11?" answer for information on where you might
be able to get a gcc for HP-UX 11 that can produce ELF-64
executables.

9.2.8.1 How can I acquire a gcc for building lsof for 64 bit HP-UX 11?

Check this HP URL:

http://h21007.www2.hp.com/dspp/tech/tech_TechSoftwareDetailPage_IDX/1,1703,547,00.html

(That's one very long link; be careful you cut 'n paste it
all.)

In November 2001 that URL led to a web page whose title
was "gcc for hp-ux 11." The page offered a link for
downloading a 64 bit gcc 3.0 compiler for HP-UX 11.0 and
11i. Rich Rauenzahn of HP installed that compiler on an
HP test system he allows me to use and I successfully built
a 64 bit lsof with it.

The HP package
may install the 64 bit capable gcc in
/usr/local/pa20_64/bin/gcc, so you may have to adjust your
path or set the LSOF_CC environment variable to compensate.

9.2.9 Why does /dev/kmem-based lsof for HP-UX 11 report "unknown file system type" for some open files?

The lsof binary being used probably doesn't have support for
the VxFS file system.

To confirm that, check `lsof -v` output for "-DHASVXFS". If
it's not present, lsof doesn't have VxFS support.

You also need to establish that lsof really is complaining
about VxFS files by checking the kernel boot file for the
symbol associated with the hexadecimal address reported in the
"unknown file system type" message -- e.g., "v_op: 0x8711c8."
Use nm(1) to do that:

```
$ nm -x /stand/vmunix | grep 8711c8
```

If nm reports the symbol associated with the address is
vx_vnodeops, then lsof is complaining about an open VxFS file.

The solution in that case is to build lsof yourself (The
bundled C compiler will do it.),
making sure that lsof's
Configure script detects the presence of VxFS. Configure does
that by finding these two header files:

```
/usr/include/sys/fs/vx_hpux.h
/usr/include/sys/fs/vx_inode.h
```

If the system where you are building lsof doesn't have those
header files, but does have VxFS, you might be able to install
the header files by installing the HP JournalFS package from
the CoreOS CD -- in particular the file set JournalFS.VXFS-PRG
and its associated patch, PHKL_18543. (My thanks to Steve
Bonds for that information.)

Finally, if you find that lsof isn't complaining about VxFS
when it complains about an unknown file system type, send
e-mail to me <abe@purdue.edu> for further assistance. Make
sure "lsof" appears in the "Subject:" line so my e-mail filter
won't classify your letter as Spam.

9.2.10 Why does the ANSI-C compiler complain about comments in HP-UX

11 header files?

When compiling lsof on HP-UX 11, the HP ANSI-C compiler's pre-processor, cpp, may complain about comments in HP-UX header files -- e.g.,

```
    cpp: "/usr/include/sys/cdfs.h", line 232: warning 2028:
 Found comment inside comment started on line 232.
    cpp: "/usr/include/sys/cdnode.h", line 196: warning 2028:
 Found comment inside comment started on line 196.
    cpp: "/usr/include/nfs/snode.h", line 30: warning 2028:
 Found comment inside comment started on line 30
```

This is not a problem with lsof. It is a problem with the HP-UX header files; they have non-compliant ANSI-C comment sequences in them -- e.g.,

```
    <sys/cdfs.h>: 232
 /* struct  cdfs *cdfs_link;  /* linked list of file systems */
```

The initial "/*" is not terminated by an ending "*/" before the appearance of a second "/*".

9.2.11 Why does dnode1.c cause the HP-UX 11 compiler to complain that <sys/fs/vx_inode.h> is missing or incorrect?

If CFLAGS in the lsof Makefile for an HP-UX 11 compilation includes HASONLINEJFS, indicating the system has OnlineJFS support, lsof needs the <sys/fs/vx_inode.h> header file.
Sometimes it is missing from /usr/include/sys/fs.

<sys/fs/vx_inode.h> is a header file that must be obtained from Veritas. If that proves impossible, please contact me via e-mail at <abe@purdue.edu>. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

9.3 PSTAT-based HP-UX lsof Questions

The sources for PSTAT-based lsof for HP-UX may be found in lsof_<revision>/dialects/hpux/pstat.

Lsof's Configure shell script decides to use these sources when it finds that the /usr/include/sys/pstat subdirectory exists.

Lsof can be forced to use the PSTAT-based sources by setting "pstat" in the HPUX_BASE environment variable. Consult the Configure shell script and 00XPORTING for more information.

9.3.1 Why does PSTAT-based lsof complain about pst_static and other PSTAT structures?

When lsof starts it may issue one of these fatal error messages:

```
lsof: FATAL: can't determine PSTAT static size

lsof: FATAL: can't read <n> bytes of pst_static
lsof: FATAL: pst_static doesn't contain <name>_size
lsof: FATAL: <name>_size should be <n>
```

These messages indicate that lsof's tests for the proper level of PSTAT support have failed. The structure names, given in <name>, and sizes, given in <n>, identify the support deficiency more precisely.

You may need to upgrade the PSTAT support in your kernel to be able to use PSTAT-based lsof.

9.3.2 Why does PSTAT-based lsof complain it can't read pst_* structures?

Lsof may put messages like the following in the NAME column of its output.

```
can't read cwd pst_filedetails: Permission denied
can't read mem pst_filedetails: Permission denied
can't read rtd pst_filedetails: Permission denied
can't read txt pst_filedetails: Permission denied
can't read pst_filedetails: Permission denied
can't read 3 stream structures: Permission denied
can't read pst_socket: Permission denied
```

These messages indicate that the lsof binary lacks the authority to read the name structures for processes other than ones belonging to the UID under which lsof is running. Authority to read the structures of other processes is limited to root processes -- i.e., lsof must have setuid-root permission if it is to list open files for arbitrary processes.

If you want to eliminate these errors, you must run lsof
as root or install it with setuid-root permission.

9.3.3 Why does PSTAT-based lsof rebuild the device cache file
after each reboot?

After each HP-UX rebuild, the first time a user runs lsof it
will report:

```
lsof: WARNING: device cache mismatch: /dev/tun...
lsof: WARNING: created device cache file: /<user_path>
```

This happens because the device numbers on /dev/tun* device
nodes are recalculated at each reboot. When lsof detects
a change in the device number of a /dev/tun* file, it rebuilds
its local device cache file.

9.3.4 Why doesn't PSTAT-based lsof report TCP addresses
for
telnetd's open socket files?

When lsof can't report TCP addresses for telnetd's open
socket files it is because an unpatched PSTAT kernel
interface doesn't report the addresses to lsof.

This has been addressed in PSTAT kernel patch PHKL_24047.
It is available from the HP IT Resource Center at:

http://itrc.hp.com

In the page's "maintenance / support" box select the
"individual patches" link. Once at its page, select the
"hp-ux" link. On that page select the "Series 800" or
"Series 700" radio button and select "11.11" from the
pull-down list to the right of the button. Under "search
or browse the path list" select "Search by Patch IDs" from
the pull down list, enter PHKL_24047 in the following text
box, and select search. That should lead to information
about PHKL_24047 and a link for downloading it. (You may
have to log in first and you may have to create a login
identity by registering before you can log in.)

Some time in March 2006 the PHKL_24047
patch was "lost"
by the HP-UX networking lab. It has been "found" again
in August 2006 and will be re-released as a GRO patch
"some time." I don't yet know when that will be. You
must contact HP to learn about the availability of the

GRO patch.

9.3.5 Why does PSTAT-based lsof cause an HP-UX 11.11 kernel panic?

When PSTAT-based lsof runs on some HP-UX 11.11 kernels, the kernel may panic. Symptoms include:

```
Console message:
  0xFBE000301100EF00 00000000 0000EF00 -
  type 31 = legacy PA HEX chassis-code

/var/adm/syslog:
  ... vmunix: Trap Type 15 (Data page fault)
  ... vmunix:   Instruction Address (pcsq.pcoq) = 0x...
```

The panic is caused by a bug in the way PSTAT's pstat_getstream() function obtains module names from streams managed by the otsam stream driver (part of OSI Transport Services). Lsof calls pstat_getstream() when it encounters an open otsam stream file. An HP-UX 11.11 system uses otsam if otsam appears in /stand/system.

HP-UX 11.11 patch PHKL_24507 (available some time after July 15, 2001) fixes the pstat_getstream() bug. See the information in the answer to the "Why doesn't PSTAT-based lsof report TCP addresses for telnetd's open socket files?" question for information on how to obtain the patch.

9.3.6 Why doesn't PSTAT-based lsof report a CWD that is on a loopback (LOFS) file system?

When PSTAT-based lsof reports on processes whose current working directory (CWD) is on a loopback file system, lsof can't report the open CWD file. The reason is that the HP-UX 11.11 and above kernel's loopback file system code is not passing the CWD file ID to the kernel's pstat(2) code. Hence lsof is given no information on the lofs CWD.

The problem was first reported to me by Ermin Borovac and an internal bug report was filed with the HP-UX file system group on October 26, 2004. That report has now been answered by the patch PHKL_33200 -- s700_800 11.11 lofs cumulative patch. The HP IT Resource Center (http://itrc.hp.com) is a source for the patch.

9.3.7 Why do some swinstall packages for PSTAT-based HP-UX 11.11

packages complain about setgid and setuid bits?

First, let me explain that I do not provide lsof swinstall packages for lsof. Others provide them and they should be contacted about problems with their packages.

However, I have become aware of a problem with one package about which I have some information I can share. The problem shows up in these swinstall messages:

```
ERROR:   Unknown owner and/or group for file
  "/usr/local/bin/lsof". SUID and/or SGID bit was
  not set.
ERROR:   Failed installing fileset "lsof.lsof-RUN,r=4.73".
  Check the above output for details.
```

The swpackage SUID/SGID functionality was restricted by changes for POSIX compliance, breaking backward compatibility. The patch PHCO_27671 allows SUID/SGID for uid/gid of 0 only, as a compromise between backward compatibility and POSIX conformance.

If the setuid bit is to be set on the executable, the UID and GID of the executable must be 0 (zero).

9.3.8 Why won't the bundled C compiler build PSTAT-based lsof for PA-RISC HP-UX 11.23?

A PA-RISC HP-UX 11.23 bundled C compiler dated May 2005 or later will not build PSTAT-based lsof. It will deliver error messages related to the system's <gssapi/gssapi.h> header file.

There is nothing wrong with that header file or lsof. The problem is that the bundled C compiler can't cope with the gssapi.h header file.

The work-around is to use the HP ANSI C compiler. Using gcc is not a satisfactory work-around. See the answer to the "Why won't gcc build PSTAT-based lsof for PA-RISC HP-UX 11.23?" question for more information.

9.3.9 Why won't gcc build PSTAT-based lsof for PA-RISC HP-UX 11.23?

Gcc will not even compile PSTAT-based lsof revisions below 4.77 for PA-RISC HP-UX 11.23 dated May 2005 or later. It reports errors in lsof's print.c fill_portmap() function about missing members

of the rpcent structure. That happens because gcc defines _XOPEN_SOURCE_EXTENDED which disables the definition of the rpcent structure in <netdb.h>.

Using the HP bundled C compiler is not a viable work-around. That is explained in the answer to the "Why won't the bundled C compiler build PSTAT-based lsof for PA-RISC HP-UX 11.23?"

While an lsof revision 4.77 or higher can be compiled with gcc, the results are unreliable. Lsof will compile, but it occasionally produces segment faults when it runs. I have not been able to reproduce the failure reliably or locate a debugger that will work with the gcc-compiled lsof.

The only reliable work-around is to use the HP ANSI C compiler.

9.3.10 Why does PSTAT-based lsof complain, "FATAL: pst_stream_size should be: 672; is 72" on HP-UX 11.11 and above?

This message indicates a mismatch between the PSTAT header files used to build lsof (<sys/pstat.h> and those in the /usr/include/sys/pstat subdirectory), and those that built the running kernel.

Unfortunately the June 2008 patch set for HP-UX 11.23 creates this inconsistency, because it does not contain all the patches needed to match the kernel with the PSTAT header files. Even more serious is that the missing patches update the kernel's PSTAT support to provide TCP/UDP endpoint information to lsof from TCP/TLI streams.

The patch inconsistency comes about because, while the following patch is installed,

PHKL_36577 1.0 PM-PSTAT section 2 manpage changes

other kernel patches are not.

The PHKL_36577 patch updates the PSTAT header files and manual pages to match kernel changes that other patches with the following numbers (or patches that contain or supersede them) contain:

PHNE_36575 1.0 Cumulative STREAMS Patch
PHNE_37670 1.0 cumulative ARPA Transport patch
PHNE_37851 1.0 NFS cumulative patch

Those patches implement the kernel changes that support the delivery of information promised in patch PHKL_36577.

The work-around is to install the missing patches.

9.4 Why won't the HP-UX depot install?

I don't distribute lsof depots, so I can't support them.

From time to time depots prepared by various sites -- e.g., usually HP-UX software collection sites -- will contain errors that cause installation of the depot to fail.

Do not contact me when this happens. Instead, contact the administrator of the site that prepared the depot.

As should be clear from the bulk of the lsof documentation, I do not recommend you use pre-built lsof binaries in any form. Instead, I recommend you obtain the lsof source distribution and build lsof yourself.

10.0 Linux

10.1 What do /dev/kmem-based and /proc-based lsof mean?

At approximately Linux 2.1.72 and exactly at lsof revision 4.23 support for Linux forks. The first fork, containing the oldest lsof form is based on access to kernel memory structures, and is called /dev/kmem-based lsof. A /dev/kmem-based lsof is heavily intertwined with the Linux kernel version, its header files, and its system map file. Typically a /dev/kmem-based lsof needs only setgid permission to local all open file information.

After approximately Linux 2.1.72 and at revision 4.23 lsof obtains all its information from the /proc file system. That lsof is called the /proc-based lsof. A /proc-based lsof does not read kernel memory, needs neither kernel header files nor the system map file, and is less likely to be affected by Linux kernel changes. However, it does require setuid-root permission to list all open files, and it can't report file offsets (positions).

After revision 4.52 the /dev/kmem-based Linux sources for

lsof are no longer distributed. Information about them may be found in the 00INDEX and README files at:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/OLD/src

10.2 /proc-based Linux lsof Questions

10.2.1 Why doesn't /proc-based lsof report file offsets (positions)?

/proc-based lsof revisions 4.79 and above can only report file offsets (positions) for the files of Linux kernels 2.6.22 and above.

During its initialization /proc-based lsof tests to see if offset information can be obtained. If it cannot, lsof disables offset reporting. If the -o option was selected, lsof also issues this warning:

```
lsof: WARNING: can't report offset; disregarding -o.
```

10.2.2 Why does /proc-based lsof report "can't identify protocol" for some socket files?

/proc-based lsof may report:

```
COMMAND PID ... TYPE ... NODE NAME
pump    226 ... sock ...  309 can't identify protocol
```

This means that it can't identify the protocol (i.e., the AF_* designation) being used by the open socket file. Lsof identifies protocols by matching the node number associated with the /proc/<PID>/fd entry to the node numbers found in selected files of the /proc/net sub-directory. Currently /proc-based lsof examines these protocol files:

```
/proc/net/ax25  (untested)
/proc/net/icmp

/proc/net/ipx  (needs kernel patch)
/proc/net/netlink
/proc/net/packet
/proc/net/raw
/proc/net/raw6
/proc/net/sctp/assocs
/proc/net/sctp/eps
/proc/net/sockstat
```

/proc/net/sockstat6
/proc/net/tcp
/proc/net/tcp6
/proc/net/udp
/proc/net/udp6
/proc/net/udplite
/proc/net/udplite6
/proc/net/unix

If /proc-based lsof says it can't identify the protocol for an open socket file, you may be able to identify the protocol yourself by using grep to look for the specific node number in the files of /proc/net -- e.g.,

```
$ grep <node_number> /proc/net/*
```

You may not be able to find the desired node number, because not all kernel protocol modules fully support /proc/net information.

If you find a matching node number in a /proc/net file that is not currently being processed by lsof, contact me via e-mail at <abe@purdue.edu>. I'll discuss adding support to /proc-based lsof for the protocol of the /proc/net file with you. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

The code that matches node numbers of open IPX protocol socket files to those in /proc/net/ipx requires Jonathan Sergent's Linux 2.1.79 patch to /usr/src/linux/net/ipx/af_ipx.c. The patch, suitable for input to Larry Wall's patch program, may be found in the lsof distribution file:

.../dialects/linux/proc/patches/net_ipx_af_ipx.c.patch

10.2.3 Why does /proc-based lsof warn about unsupported formats?

Lsof may issue the following warning:

```
lsof: WARNING: unsupported format: /proc/net/<file>
```

if the header line of the indicated <file> in /proc/net -- ax25, ipx, raw, tcp, udp, or unix -- doesn't match what lsof expects to find.

When the header line of a /proc/net file isn't what lsof expects, lsof probably can't parse the rest of the file

correctly and doesn't try. As a result, lsof can't report
any NAME column information (e.g., local and remote
addresses)
for socket files bound to the indicated network protocol.

If you get this warning, please send me e-mail at <abe@purdue.edu>.
Include the contents of the file lsof claims has an unsupported
format. Make sure "lsof" appears in the "Subject:" line so my
e-mail filter won't classify your letter as Spam.

10.2.4 Why does /proc-based lsof report "(deleted)" after a path name?

The "(deleted)" notation following a path name in /proc-based
lsof's NAME column comes from the /proc/<PID>/fd/<FD> entry
for the open file. It's the Linux kernel's way of indicating
the file is open but has been unlinked (rm'd).

10.2.5 Why doesn't /proc-based lsof report full open file information
for all processes?

/proc-based lsof can only report on processes whose /proc
files it has permission to read. /proc normally grants
permission to read all its files only to root or to the
owning user ID.

Without permission to read most /proc files, lsof can only
report full information for
processes belonging to the user
who is running lsof. /proc-based lsof may be able to report
some information for all processes, depending on the
permissions of their associated /proc files, but usually
/proc-based lsof won't be able to access the files in
/proc/<PID>/fd/ that describe regular open files.

If you want /proc-based lsof to report on all processes, you
must install it with setuid-root permission.

10.2.6 Why won't Customize offer to change HASDCACHE or WARNDEVACCESS
for /proc-based lsof?

/proc-based lsof doesn't read device information from /dev
or the device cache file, so it makes no sense to change
the state of device cache processing or /dev node accessibility
warnings.

10.2.7 /proc-based lsof Linux NFS questions

10.2.7.1 Why can't lsof find files on an accessible NFS file system?

On occasion lsof may be unable to identify that an open file is on an NFS file system. This is most likely the result of a bug in the way the Linux kernel supplies information
to the reader of /proc/mounts (lsof) -- sometimes that pseudo-file is truncated by the kernel.

One way to see if this is the case is to search for the NFS file system in /proc/mounts -- e.g.,

```
$ grep <NFS_file_system_mount_point> /proc/mounts
```

If you get no output or the third word of the output isn't "nfs", then lsof won't consider the file system an NFS file system.

A second test is to look at the end of /proc/mounts -- e.g.,

```
$ tail /proc/mounts
```

If tail reports "# truncated" then /proc/mounts is incomplete because of a Linux kernel bug. The bug is documented at:

http://www.xss.co.at/sysinfo/mounts.html

The bug is fixed in Linux kernel 2.4.18, and possibly in some earlier Linux kernel versions.

10.2.7.2 Why can't lsof find files on an inaccessible NFS file system?

If lsof issues this message about a Linux file system, mounted from an NFS server:

```
lsof: WARNING: can't stat() nfs file system /xxx/yyy
```

Then lsof won't be able to find any open files on the file system.

That's because of an inadequacy in the Linux /proc file system. Its /proc/mounts file doesn't give the device doublet (major and minor numbers) of the file system as do many UNIX systems (e.g., Solaris). The only way lsof can get the device doublet for a Linux file system is to call stat(2) on the file system path, which fails if the NFS server isn't accessible.

When lsof doesn't know the device doublet of a file system,
it can't find open files on the inaccessible file system,
because it can't match the doublets of open files to the
doublet of the inaccessible file system.

This topic is covered extensively in lsof(8) it its ALTERNATE
DEVICE NUMBERS and BLOCKS AND TIMEOUTS sections.

10.2.8 Why doesn't /proc-based Linux lsof report socket options and
values, socket state flags, and TCP options and values?

The Linux /proc file system doesn't report socket options
and values, socket states, and TCP options and values to
lsof.

10.2.9 Does
/proc-based Linux lsof use a device cache?

No. The Linux /proc/<PID>/fd/* entries provide device names to
lsof via readlink(2). It is not necessary to enable device
cache processing for /proc-based Linux lsof via the Customize
script or modifications to the Linux machine.h header file.

10.2.10 Why doesn't /proc-based Linux lsof report any or all file structure
values for its +fcfgGn option?

/proc-based lsof revisions 4.79 and above can only report some
file structure values for Linux kernels below 2.6.22.

When running on Linux kernels at 2.6.22 and above lsof 4.79 can
report some file flag values -- i.e., in response to the +fg or
+fG options. The flag values are obtained from the
/proc/<PID>/fdinfo/ files introduced at Linux kernel 2.6.22.

/proc-based Linux lsof tests its availability to obtain file
flag values at initialization. If values are not available,
lsof disables file flag reporting. If the flags were requested
with +fg or +fG, lsof displays
this warning:

```
lsof: WARNING: can't report file flags; disregarding +f.
```

As a special note, when Linux lsof can report flag bits, it
will not report 'R' for a read-only file. There is no
read-only flag bit O_* symbol in <fcntl.h> (or <bits/fcntl.h>)
and lsof reports only bits that are set. The absence of O_RDWR
and O_WRONLY flag bits implies the file is read-only.

10.3 Special Linux file types

10.3.1 Why is ``DEL'' reported as a Linux file type?

Lsof usually reports entries from the Linux /proc/<PID>/maps file with ``mem'' in the TYPE column. However, when lsof can't stat(2) a path in the process' ``maps'' file and the ``maps'' file entry contains ``(deleted)'', indicating the file was deleted after it had been opened, lsof reports the file type as ``DEL''.

10.3.2 Why is ``unknown'' reported as a Linux file type?

Lsof may report a Linux file's type as ``unknown'' in the TYPE column when lsof can't obtain complete stat(2) results for the file.

Usually the NAME column will contain a ``(stat: xxx)'' error message, but that could have been suppressed with the lsof ``-w'' option.

10.4 Linux ``mem'' Entry Problems

10.4.1 What do ``path dev=xxx'' and ``path inode=yyy'' mean in the NAME column of Linux ``mem'' file types?

When the device or inode number in the process' ``maps'' file entry doesn't match the stat(2) results from the file path, lsof reports the inconsistent information from the stat(2) of the path parenthetically after the path in the NAME column in one of these forms:

(path dev=xxx) only the device number, ``xxx'', from a stat(2) of the ``maps'' file entry path differs from the ``maps'' file entry value reported in the DEVICE column.

(path inode=yyy) only the inode number, ``yyy'', from a stat(2) of the ``maps'' file entry path differs from the ``maps'' file entry value reported in the NODE column.

(path dev=xxx inode=yyy) Both device
and inode numbers
differ.

Lsof reports the ``maps'' file device number in the DEVICE
column and the inode number in the NODE column.

When device and inode mismatches occur, lsof suppresses the
reporting of link count and size. See the answer to the "Why
is neither link count nor size reported for some Linux ``DEL''
and ``mem'' file types?" question for more information.

Device and inode inconsistencies can occur when a file at a
``maps'' path is replaced after the process has started, or
when a different file system with similar path names is mounted
on top of the original file system.

The device inconsistency parenthetical messages can be
suppressed with lsof's ``-w'' option.

10.4.2 Why is neither link count nor size reported for some Linux
``DEL'' and ``mem'' file types?

Link count and size are not reported for some entries from the
process' ``maps'' file because a stat(2) of the entry file path
failed or stat(2) delivered device or inode numbers that don't
match
the ones in the ``maps'' entry.

When the stat(2) device or inode numbers don't match those in
the ``maps'' file entry, it is likely that the stat(2) results
don't apply to the file that was originally mapped by the
process and whose path appears in the ``maps'' file entry, so
lsof tries to avoid reporting possibly incorrect information.

See the answer to the "What do ``path dev=xxx'' and ``path
inode=yyy'' mean in the NAME column of Linux ``mem'' file
types?" for more information on how mismatched stat(2) device
and inode numbers are reported.

10.5 Special Linux NAME column messages

10.5.1 What does ``(stat: xxx)'' mean in the NAME column of Linux
files?

When lsof tried to stat(2) the path in the NAME column, the
stat(2) system call failed and produced an error message of
``xxx''.

This situation usually occurs if the lsof process lacks permission to stat(2) the path -- e.g., the lsof executable lacks root permission, or lsof is attempting to stat(2) a path
on an NFS device mounted with the root_squash option.

The message can be suppressed with lsof's ``-w'' option.

10.5.2 What does ``(readlink: xxx)'' mean in the NAME column of Linux files?

When lsof tried to convert the /proc/<PID>/fd path, reported in the NAME column, to its full and more meaningful path, the readlink(2) system call used to do the conversion failed. The readlink(2) failure message is ``xxx''.

This situation usually occurs if the lsof process lacks permission to readlink(2) some part of the path -- e.g., the lsof executable lacks root permission, or lsof is attempting to stat(2) a path on an NFS device mounted with the root_squash option.

The message can be suppressed with lsof's ``-w'' option.

10.6 Why is ``NOFD'' reported as a Linux file type?

When lsof lacks permission to use opendir() on the fd/ subdirectory of a process' /proc/<PID> directory, it reports a single file of the type ``NOFD'' (for no file descriptors).

Lsof reports the the
/proc/<PID>/path in the NAME column,
followed by "(opendir: xxx)", where ``xxx'' is the error message returned by opendir().

The ``NOFD'' entry can be suppressed with lsof's ``-w'' option.

10.7 Why does Linux lsof report a NAME column value that begins with ``/proc''?

When lsof has problems processing a ``/proc/<PID>'' entry -- e.g., it can't convert the entry to a full and more meaningful path name, or it can't access the /proc/<PID>/fd subdirectory with opendir() -- it will report the /proc/<PID> path in the NAME column.

10.8 Linux /proc/net/tcp* and /proc/net/udp* issues

10.8.1 Why use the Linux -X option?

If you're not interested in TCP/IP socket information for a particular use of lsof, adding the -X option will make lsof run more quickly, because -X inhibits the reading of the /proc/net/tcp* and /proc/net/udp* files. For example, you may only be interested in knowing what process has a particular file open.

When the Linux system has a large number of open TCP/IP socket files, the time savings provided by -X can be significant.

10.8.2 Why does lsof say ``-i is useless when -X is specified''?

If -X is specified, lsof can't report much information on open TCP/IP socket files. However, lsof's -i option requests that information. Hence, the two options conflict and can't be used together.

10.8.3 Why does lsof say ``can't identify protocol (-X specified)''?

If the Linux lsof -X option is specified and an open socket file can't be identified without accessing the /proc/net/tcp* and /proc/net/udp* files, lsof will report that it can't identify the socket's protocol and that the failure may be caused by the -X specification

11.0 NetBSD Problems

11.1 Why doesn't lsof report on open kernfs files?

Lsof doesn't report on open NetBSD kernfs files because the structures lsof needs aren't defined in the kernfs.h header file in /sys/misc/kernfs.

11.2 Why doesn't lsof report on open files on: file descriptor file systems; /proc file systems; 9660 (CD-ROM) file systems; MS-DOS (floppy disk) file systems; or kernel file systems?

Lsof is not able to report on open files on certain file system if /usr/src/sys/msdosfs didn't exist when the lsof Configure script ran and lsof was made. /usr/src/sys/msdosfs contains header files lsof needs for collecting data on certain file system files.

You can tell if an lsof executable above) lacks support
for a file system if the following test of `lsof -v` produces
nothing:

```
$ lsof -v 2>&1 | grep <support_enabled_definition>
```

The <support-enabled_definition> will be:

```
File System Type Definition Note
---------------- ---------- ----
File descriptor HASFDESCFS
/proc  HASPROCFS
9660  HAS9660FS
MS-DOS  HASMSDOSFS (lsof 4.61 and above)
Kernel  HASKERNFS
```

The work-around is to install /usr/src/sys, rerun the lsof
Configure script, and remake lsof.

11.3 Why does lsof produce confusing results for nullfs file systems?

Consider
this report from /sbin/mount:

```
/usr/home on /home type null (local)
```

(According to /sbin/mount /usr/home is the mounted-on device
and /home is the mounted-on directory.)

When lsof is asked to report on open files on /home, it
will report them as files on /usr/home instead. That's an
artifact of the NetBSD kernel's dynamic name lookup cache
(DNLC) and the way the kernel handles nullfs mounted-on
directories.

While lsof will report all open files on /home when given
/home as a file system directory argument, even though
reporting them as located on /usr/home, lsof will not find
the same files when asked to report on all open files on
/usr/home when given /usr/home as a file system device
argument. That's because from the mount perspective
/usr/home is equivalent to a device, but from the device
perspective it is still a directory.

So, what this lsof command reports:

```
$ lsof /home
... NAME
... /usr/home/...
```

Won't be duplicated by this lsof
command:

```
$ lsof /usr/home
```

Another way to look at this confusing /home and /usr/home
example is to consider what stat(2) reports. For /home
stat(2) reports a device doublet that matches what lsof
finds in open file node structures, while the device doublet
stat(2) reports for /usr/home won't match what lsof finds.
Nor does the mode reported by stat(2) indicate a block
devices, as is the expected case.

There is no simple answer to this confusion, nor is there
even a simple explanation. Simply be aware that when
supplying file system arguments to lsof on NetBSD, use the
mounted-on directory name for a nullfs as the lsof argument,
and don't be surprised when the NAME column reports the
mounted-on device name.

11.4 NetBSD header file problems

11.4.1 Why can't the compiler find some NetBSD header files?

If the compiler's pre-processor complains it can't find some
header files when it compiles lsof source files, /usr/include
and /usr/src may not have all the header
files lsof needs.

As a work-around use the NETBSD_SYS environment variable
to specify to lsof the location of the additional header
files -- e.g.,

```
% setenv NETBSD_SYS /my_source
% ./Configure -n netbsd
```

or

```
$ NETBSD_SYS=/mys_source ./Configure -n netbsd
```

Caution: using this work-around may cause the lsof Configure
script to activate or omit different features, depending
on where it finds the header files that determine the state
of the features.

11.4.2 Why does NetBSD lsof produce incorrect output?

If the NetBSD system's kernel was built from header files that don't match those in /usr/include -- e.g., //usr/src has the ones from which the kernel was built -- lsof may build, but won't produce correct output.

As a possible work-around, try directing the C compiler to select header files from /usr/src before it selects them from /usr/include. That can be done with the DEBUG make string -- e.g.,

```
$ make DEBUG="-I/usr/src -I/usr/include"
```

If
that work-around fails, try using the LSOF_INCLUDE and NETBSD_SYS environment variables to swap /usr/include and /usr/src when running the Configure script, then use the make DEBUG string when running make -- e.g.,

```
$ LSOF_INCLUDE=/usr/src; export LSOF_INCLUDE
$ NETBSD_SYS=/usr/include; export NETBSD_SYS
$ ./Configure -n netbsd
$ make DEBUG="-I/usr/src -I/usr/include"
```

11.5 Why isn't lsof feature xxx enabled for NetBSD?

Lsof's Configure script enables NetBSD features by locating and examining header files associated with the features, and based on what it finds, setting compile-time definitions in Makefiles. (See 00PORTING for a list of the definitions.)

When Configure doesn't find header files or doesn't find appropriate values in header files, that may mean the header file tree lsof is searching is incomplete or out of date.

Lsof normally looks for NetBSD header files in /usr/include. It can also be directed to look in other directories -- e.g.,
/sys -- if told to do so with the contents of the LSOF_INCLUDE and NETBSD_SYS environment variables.

To determine what header file enables a missing feature, check the NetBSD stanza in the Configure script. Then check the locations it checks for the indicated header files and contents.

See 00XCONFIG for more information on LSOF_INCLUDE and

and NETBSD_SYS.

12.0 NEXTSTEP and OPENSTEP Problems

12.1 Why can't lsof report on 3.1 lockf() or fcntl(F_SETLK) locks?

Lsof has code to test for locks defined with lockf() or fcntl(F_SETLK) under NEXTSTEP 3.1, but that code has never been tested. I couldn't test it, because my NEXTSTEP 3.1 lockf() and fcntl(F_SETLK) functions return "Invalid argument" every way I have tried to invoke them.

If your NEXTSTEP 3.1 system does allow you to use lockf() and fcntl(F_SETLK) and lsof doesn't report locks set with them, then the code in .../dialects/next/dnode.c probably isn't correct. Please contact me via e-mail at <abe@purdue.edu> and
tell me how you got your lockf() and fcntl(F_SETLK) system calls to work. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

12.2 Why doesn't lsof compile for NEXTSTEP with AFS?

I no longer have a NEXTSTEP test system that has AFS. Changes to lsof since I once had a test system have caused me to change the AFS code in NEXTSTEP without being able to test the changes.

If you need AFS support for NEXTSTEP and can't get it to compile, please contact me. Perhaps we can jointly fix the problems.

13.0 OpenBSD Problems

13.1 Why doesn't lsof support kernfs on my OpenBSD system?

Lsof supports the kernel file system on OpenBSD versions whose /sys/miscfs/kernfs/kernfs.h (or <miscfs/kernfs/kernfs.h> header file correctly defines the kern_target structure.
The lsof Configure script's openbsd stanza checks for the presence of the structure's kt_name element and activates kernfs support for the CFLAGS -DHASKERNFS definition only
when it finds kt_name.

The kernfs.h header file is scheduled to be updated in the OpenBSD 2.1 release, according to Kenneth Stailey, who authored its changes.

13.2 Will lsof work on OpenBSD on non-x86-based architectures?

I've not tested lsof on an OpenBSD system that uses a non-x86-based architecture, but I've had one report that lsof 4.33 compiles and works on OpenBSD for the pmax architecture (decstation 3100).

13.3 <sys/pipe.h> problems

13.3.1 Why does the compiler claim nbpg isn't defined?

When compiling lsof on some (older) OpenBSD SPARC versions, the compiler may complain:

```
In file included from ../dlsof.h:191,
    from ../lsof.h:166,
    from fino.c:52:
/usr/include/sys/pipe.h:83: `nbpg' undeclared here
(not in a function)
/usr/include/sys/pipe.h:83: size of array `ms' has
non-integer type
```

This happens because <sys/pipe.h> uses NBPG from <machine/param.h> to size the `ms' array, and some OpenBSD systems define
NBPG in terms of a kernel integer variable,
nbpg.

Lsof revisions 4.46 and above have a hack to dlsof.h, developed by Volker Borchert that avoids the compiler problem for SPARC OpenBSD 2.3. The hack might work for other OpenBSD SPARC versions, but hasn't been tested there.

If you want to enable the hack for your OpenBSD SPARC version, modify this code in .../dialects/n+obsd/dlsof.h:

```
# if    defined(OPENBSDV)
#  if   OPENBSDV==2030 && defined(__sparc__)
#   if  defined(nbpg)
#undef  nbpg
#   endif       /* defined(nbpg) */
#define nbpg    4096            /* WARNING!!!  ... */
#  endif        /* OPENBSDV==2030 && defined(__sparc__) */
#include <sys/pipe.h>
```

```
#endif  /* defined(OPENBSDV) */
```

You will probably want to change the second #if test to match your OpenBSD version. You may also want to change what value is assigned to nbpg. See the next section, "What value should I assign to nbpg?"

13.3.2 What value should I assign to nbpg?

If you need to enable the nbpg hack, described in "Why does the compiler claim nbpg isn't defined?", you may also need to assign a value other than 4096 to nbpg. 4096 works for the sun4c processor and should work for sun4m, but 8192 may be needed for sun4.

Check <machine/param.h> and other OpenBSD documentation to determine the correct nbpg assignment.

13.4 Why doesn't lsof report on open MS-DOS file system (floppy disk) files?

Lsof is not able to report on open MS-DOS file system files if /usr/src/sys/msdosfs didn't exist when the lsof Configure script ran and lsof was made. /usr/src/sys/msdosfs contains header files lsof needs for collecting data on MS-DOS file system files.

You can tell if an lsof executable (revisions 4.61 and above) lacks MS-DOS file system support if the following command reports nothing:

```
$ lsof -v 2>&1 | grep HASMSDOSFS
```

The work-around is to install /usr/src/sys, rerun the lsof Configure script, and remake lsof.

13.5 Why isn't lsof feature xxx enabled for OpenBSD?

Lsof's Configure script enables OpenBSD features by locating and examining header files associated with the features, and based on what if finds, setting compile-time definitions in Makefiles. (See 00PORTING for a list of the definitions.)

When Configure doesn't find header files or doesn't find appropriate values in header files, that may mean the header file tree lsof is searching is incomplete or out of date.

Lsof normally looks for OpenBSD header files in /usr/include and /sys. It can also be directed to look in other directories if told to do so with the contents of the LSOF_INCLUDE and NETBSD_SYS environment variables.

To determine what header file enables a missing feature, check the OpenBSD stanza in the Configure script. Then check the locations it checks for the indicated header files and contents.

See 00XCONFIG for more information on LSOF_INCLUDE and and NETBSD_SYS.

14.0 Output Problems

14.1 Why do the lsof column sizes change?

Lsof dynamically sizes its output columns each time it runs to make sure that each column takes the minimum space. Column parsing -- e.g., with awk -- is possible, because each column is guaranteed to be separated from the preceding one by at lease one space, and no column except the last (NAME) contains embedded spaces.

14.2 Why does the offset have ``0t' and ``0x'' prefixes?

The offset value that appears in the SIZE/OFF column has ``0t' and ``0x'' prefixes to distinguish it from size values that may appear in the same column.

Normally if the offset value is less than 100,000,000 (8 digits), it appears in decimal with a ``0t' prefix; over 99,999,999, in hexadecimal with a ``0x'' prefix.

A decimal offset is handy, for example, when tracking the progress of an outbound ftp transfer. When lsof reports on the ftp process, it will report the size of the file being sent with its open descriptor; it will report the progress of the transfer via the offset of the outbound open ftp data socket descriptor.

The ``-o [n]'' option may be used to specify the maximum number of decimal digits to be printed after ``0t'' before lsof switches to the hexadecimal digits after `0x''. As

already noted, the default decimal digit count is 8.

14.3 What are the values printed in the FILE_FLAG column
and why is 0x<value> sometimes included?

The two comma separated lists, separated by a semicolon,
printed in the FILE-FLAG column (when the "+fg" option is
specified), are short-hand names or hexadecimal values for
the bits lsof finds in the f_flag or f_flags member of file
structures for files (the first list, the one before the
semicolon), and process open files flags found in various
kernel structures, often named "pofile" (the second list,
the one after the semicolon).

Lsof determines the short-hand names from symbols in the
<fcntl.h>, <linux/fs.h>, <sys/fcntl.h>, <sys/fcntlcom.h>,
o<sys/file.h>, and <sys/user.h> header files.

See
the discussion of FILE-FLAG in the OUTPUT section of
the lsof man page, and the FF_* and POF_* symbols in lsof.h
for a list of the names.

Bits with no names defined for them are represented by an
0x<value> member of the comma-separated list -- a hexadecimal
integer. When "+fG" is specified (instead of "+fg"), lsof
will list all flag values as two hexadecimal integers,
separated by a semicolon.

When "-FG" is specified to get the flags in an output field,
the format defaults to hexadecimal. You can get names
instead by following "-FG" with "+fg" -- e.g.,

```
$ lsof -FG +fg ...
```

However, when you precede "-FG" with "+fg" -- e.g.,

```
$ lsof +fg -FG
```

the format will be hexadecimal; order is important.

14.3.1 Why doesn't lsof display FILE_FLAG values for my dialect?

All versions of lsof except the /proc-based Linux lsof
report FILE-FLAG values. Lsof can't obtain FILE-FLAG
information from the Linux /proc interface.

14.4 Network Addresses

14.4.1 Why
does lsof's -n option cause IPv4 addresses, mapped to
IPv6, to be displayed in IPv6 notation?

When you use the -n option to tell lsof to display numeric
network addresses, and an IPv4 address has been mapped to
IPv6, lsof displays the address in IPv6 format and puts
"ipv4" in the TYPE column. That combination indicates the
IPv4 address has been mapped to IPv6.

For example, the IPv4 address 1.2.3.4, when mapped to an
IPv6 address, will be displayed by lsof as:

[::ffff:1.2.3.4]

The enclosing brackets are lsof's signal that this is an
IPv6 address. Inside the brackets is a standard IPv6
address, reported by inet_ntop(). The first two colons,
signifying zeroes in the first 64 bits of the IPv6 address,
and the hexadecimal ffff in the next 32 bits, indicate that
the last 32 bits contains a mapped IPv4 address, which is
then displayed in IPv4 dot notation.

14.5 Why does lsof output \x, ^x, or \xnn for characters
sometimes?

Lsof displays only printable ASCII characters.
Lsof
considers a character printable if isprint(3) says it
is. If isprint(3) says a character isn't printable,
the lsof may page explains:

"... Non-printable characters are printed in one of
three forms: the C ``\[bfrnt]" form; the control
character `^' form (e.g., ``^@"); or hexadecimal
leading ``\x" form (e.g., ``\xab"). Space is
non-printable in the COMMAND column (``\x20") and
printable elsewhere."

14.5.1 Why is space considered a non-printable character in command
names?

Space is considered an unprintable character in command
names because it is sometimes possible to hide the full
command name from scripts that parse ps(1) output by
embedding a space in the name.

14.6 Why doesn't lsof print all the characters of a command name?

By default lsof prints the first nine characters of the names of commands associated with processes. If more characters are required, the "w" value of the "+c w" option may be used to specify a larger width.

If "w" is zero ('0') lsof will print all characters of all command names up to the limit of the number of characters supplied by the particular UNIX dialect. When reporting command names, lsof replaces non-printable characters as discussed in the answer to " Why does lsof output \x, ^x, or \xnn for characters sometimes?"

See the answer to the "Why is space considered a non-printable character in command names?" question for an explanation of why spaces are replaced by the ``\x20" representation in command names.

The number of command name characters supplied to lsof by UNIX dialects in files and structures varies by dialect. For example, Linux 2.4.27 supplies lsof the first 15 characters of command names and Solaris 9 supplies 16. Thus, even if "w" is zero ('0'), lsof can't report more characters for command names on those two UNIX dialects than they provide lsof.

14.7 Why does lsof reject some -c command names, saying their lengths are "> what system provides (nn)"?

The command name length that a specific system provides varies from dialect to dialect. As noted in the answer to the "Why doesn't lsof print all the characters of a command name?" question, Linux and Solaris provide a limited number of command name characters.

When more characters are specified in the parameter to the -c option, lsof considers it an error and issues a fatal error message -- e.g.,

```
lsof: "-c xxxxyyyy" length (8) > what system provides (7)
```

The only work-around is to specify no more characters to -c that the system provides to lsof.

14.8 Why does lsof sometimes print TYPE numbers instead of names?

When lsof can't convert a type number to a name for printing in the TYPE column, it will report the number as four octets.

14.9 Marker line format problems

14.9.1 Why won't lsof accept a marker line format?

Lsof's Configure script must find the localtime(3) and strftime(3) functions in the dialect's C library in order to enable
support for marker line formats.

Check the output of lsof's -v option for the presence of -DHAS_STRFTIME in the compiler flags. If it isn't there, Configure didn't find the necessary two C library functions.

If you think lsof should have found the functions, make a copy of the C test program in the Configure script that it uses to find the functions. Then use the copy, or a more informative modification of it, to learn why Configure can't find the functions. You can find that program by searching for strftime.

14.9.2 Why does lsof reject the NL (%n) marker line format?

When repeat mode and field output (with -F) have both been specified, lsof won't allow new line (NL) formats to be specified with ``%n''. That's because the marker line is always guaranteed to be a single line.

There is no work-around to this restriction.

14.10 How are protocol state name exclusion and inclusion used?

Protocol state name inclusion and exclusion with the ``-s p:s'' option and
its arguments have some issues to consider. Note:
the ``-s p:s'' option is only available when the help output, obtained with -h or -?, shows it; it was a recent addition to lsof and is supported only on dialects where it could be tested.

First, there is the problem of determining what state names, if any, the dialect produces. Try running this lsof command to find them:

```
$ lsof -i
```

Knowing the state names of interest, the next problem is to decide on the lsof options and their parameters that will produce the desired output. Here some examples are probably the most useful.

To list only TCP socket files in LISTEN and CLOSE_WAIT states, use:

```
$ lsof -itcp -stcp:listen,close_wait
```

or

```
$ lsof -iTCP -sTCP:LISTEN,CLOSE_WAIT
```

Case isn't important to lsof in protocol and state names.

To exclude TCP socket files in CLOSE_WAIT state, use:

```
$ lsof -itcp -stcp:^close_wait
```

Note the `^' preceding close_wait; it selects exclusion. You can mix included and
excluded names in a comma separated list,
but you may not include and exclude the same name for the same protocol.

To list TCP files in LISTEN state and UDP files in Idle state, use:

```
$ lsof -i -stcp:listen -sudp:idle
```

Note: if you don't accompany the ``-s p:s" list option and argguments with the -i option, lsof will list all other regular files, while applying the specified inclusion and exclusion specifications to network files. Generally, then, you want to use -i with -s.

14.10.1 Why doesn't my dialect support state name exclusion and inclusion?

When state name inclusion and exclusion was added, I had access to test systems for AIX, Darwin, FreeBSD, Linux, PSTAT-based HP-UX and Solaris.

Therefore, I was unable to add and test the support to any other UNIX dialects.

If a dialect has the support, then the HASTCPUDPSTATE definition in its machine.h header file will be active; if not, it will be absent or commented out.

If your dialect doesn't have the support
and you want it added,
you will have to provide me Internet access to a test host, where
I can compile lsof and have the credentials to test the changes
the support requires. If that's possible for you, please contact
me via e-mail at <abe@purdue.edu>. Make sure "lsof" appears in
the "Subject:" line so my e-mail filter won't classify your letter
as Spam.

15.0 Pyramid Version Problems

15.0.5 Statement of deprecation

As of lsof revision 4.52 support for all Pyramid versions has
been dropped. Contact me via e-mail at <abe@purdue.edu> if you
are interested in obtaining the last lsof Pyramid distribution.
Make sure "lsof" appears in the "Subject:" line so my e-mail
filter won't classify your letter as Spam.

16.0 SCO Problems

16.1 SCO OpenServer Problems

16.1.1 How can I avoid segmentation faults when compiling lsof?

If you have an older SCO OpenServer compiler, it may get
a segmentation fault when compiling some lsof modules.
That appears to happen because of
the -Ox optimization
action requested in the lsof Makefile.

Try changing -Ox to -O with this make invocation:

```
$ make DEBUG=-O
```

Bela Lubkin supplied this tip and Steve Williams verified
it.

16.1.2 Where is libsocket.a?

If you compile lsof and the loader says it can't find the
socket library, libsocket.a, called by the -lsocket option
in the lsof compile flags, you probably are running an SCO
OpenServer release earlier than 5.0 and don't have the
TCP/IP Development System package installed.

You may have the necessary header files, because you have the TCP/IP run-time package installed, but if you don't have the TCP/IP Development System package installed, you won't have libsocket.a.

Your choices are to install the TCP/IP Development System package or upgrade to OpenServer Release 5.0. You will find libsocket.a in 5.0 -- you'll find all the libraries and header files there, in fact -- and you can use gcc to compile lsof if you don't want to install the 5.0 Development System package.

16.1.3 Why do I get "warning C4200" messages when I compile lsof?

When you compile lsof under OSR 3.2v4.2 (and perhaps under earlier versions as well), you may get many compiler warning messages of the form:

```
node.c(183) : warning C4200: previous declarator is not
compatible with default argument promotion
```

In my opinion this is a bug in the OSR compiler. Because the compiler cannot handle full ANSI-C prototypes, it assumes default types for function parameters as it encounters untyped in a function prototype -- e.g., in this function declaration from node.c,

```
   readrnode(ra, r)
 KA_T ra;
 struct rnode *r;
   {
   ...
```

the compiler assigns default int types to the ra and r arguments.

Then, when the compiler encounters the fully typed parameters after the function skeleton and sees parameters with types that don't match the assumptions it previously made, it whines about its own assumptions.

You can ignore these messages.

16.2 SCO|Caldera UnixWare Problems

16.2.1 Why doesn't lsof compile on my UnixWare 7.1.1 or above

system?

When you Configure lsof with the "uw" abbreviation and try to compile it for UnixWare 7.1.1, you may get compiler error messages like this:

```
    UX:acomp: ERROR: "dproc.c", line 98:
 undefined struct/union member: p_pgidp
```

This suggest that you probably have a non-stop cluster UnixWare 7.1.1 system. Its <sys/proc.h> header file differs from the one on the system where I did the lsof port to UnixWare 7.1.1. I currently don't have access to a non-stop cluster system to be able to develop changes to lsof that would make it compile and work there.

If you have a non-stop cluster UnixWare 7.1.1 system, want lsof for it, and can offer me a test account on the system, please contact me via e-mail at <abe@purdue.edu>. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

If you have a system with nsc_cfs and can offer me a test account on it, please contact me via e-mail at <abe@purdue.edu>. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

16.2.2 Why does lsof complain about node_self() on my UnixWare 7.1.1 or above system?

If lsof exits immediately after issuing this message:

```
    can't identify process NSC node; node_self(): <message>
```

It means that lsof has been built to run on a NonStop Cluster (NSC) UnixWare 7.1.1 or higher system and can't get the number of the node on which it is running. Lsof uses the node number to determine the path to the kernel boot file.

You can tell if lsof has been built for NSC by looking for "-DHAS_UW_NSC" in lsof's "-v" option output.

If the system on which you're trying to run lsof isn't running an NSC kernel, you will need to build a non-NSC lsof.

16.2.3 Why does UnixWare 7.1.1 or above complain about -lcluster, node_self(), or libcluster.so?

When you build, compile, and load
lsof for UnixWare 7.1.1
and above, ld may complain that it can't find the -lcluster
library or that the node_self symbol is undefined. When
you try to run an existing lsof binary it may complain that
libcluster.so can't be found.

These messages mean the tests made by Configure on your
system led it to believe your system is running a NonStop
Cluster (NSC) kernel, or the lsof binary you're trying to
use was built on a NonStop Cluster system. If an lsof
binary was built for NSC, this shell command produces
output:

```
$ strings <lsof_binary> | grep HAS_UW_NSC
```

If that's not the case, and you can rebuild lsof, set the
UW_HAS_NSC environment variable to "N" and do this:

```
$ Configure -n clean
$ UW_HAS_NSC=N
$ export UW_HAS_NSC
$ Configure -n uw
$ make
```

You can also edit Makefile and lib/Makefile. Remove
-DHAS_UW_NSC from the CFGF strings. Remove -lcluster from
the CFGL strings. Then run make again.

If you have an existing NSC lsof binary and you
want one
for a non-NSC system, you will have to build lsof yourself
on the system where you want to use it. (That's always a
good idea anyway.)

16.2.4 Why does UnixWare 7.1.1 or above lsof complain it can't read the kernel name list?

If lsof complains:

```
can't read kernel name list from <path>
```

It means that lsof can't find the booted kernel image file
at <path>. On NonStop Cluster (NSC) UnixWare 7.1.1 or

higher systems lsof determines the booted file path by
examining this file:

```
/stand/`node_self`/boot
```

If examining that file doesn't lead to an NSC path, lsof
uses:

```
/stand/1/unix
```

On non-NSC systems lsof expects the booted kernel image to
be in /stand/unix.

If your booted kernel image is in a different place, use
lsof's "-k <path>" option to specify its path.

16.2.5 Why doesn't lsof report link count, node number, and size
for some UnixWare 7.1.1 or above CFS files?

Lsof reports link count, node number, and size for open
CFS files as recorded
in their kernel node structure's
cached attributes. Sometimes not all attributes are cached
on the node where lsof runs, so lsof cannot report them.

16.2.6 Why doesn't lsof report open files on all UnixWare 7.1.1
NonStop Cluster (NSC) nodes?

Lsof can only report on files open on the node on which it
runs, because the information lsof reports comes from the
private kernel memory of the node. This may mean that
asking lsof to find a specific open file, or use of a
specific Internet address or port, may not report all open
instances on nodes other than the one used to run lsof.

You can use the NSC onnode(1) command to run lsof on specific
nodes, or the onall(1) command to run lsof on all nodes --
e.g.,

```
$ onall lsof [options] 2>&1 | less
```
or
```
$ onnode node-number lsof [options] 2>&1 | less
```

Note that, when lsof is run all nodes, the path name
component assembly results it reports in its NAME column
may vary, because the dynamic name cache from which lsof
gets

the components is private to the kernel of each node.

Also note the use of shell redirection in the examples to merge the standard error file information from onnode and onall with lsof's standard output file output. That will put the onnode and onall node announcements in proper sequence with lsof's output.

16.2.7 Why doesn't lsof report the UnixWare 7.1.1 NonStop Cluster (NSC) node a process is using?

To induce lsof to report the node on which a process runs would be a significant, non-standard modification to lsof. It has much wider implications than merely the printing of a number in an output column. I'm not currently (April 2001) prepared to undertake such a modification.

If you want node-specific NSC information about open files, run lsof under the control of onall(1) or onnode(1).

```
   $ onall lsof [options] 2>&1 | less
 or
   $ onnode node-number lsof [options] 2>&1 | less
```

16.2.8 Why does the compiler complain about missing UnixWare 2.1[.x] header
files?

SCO|Caldera didn't ship the following header files with UnixWare 2.1 through 2.1.3:

```
   <fs/proc/prdata.h>
   <fs/procfs/prdata.h>
   <sys/fs/fifonode.h>
   <sys/fs/namenode.h>
```

Lsof needs those header files for its compilation. Contact SCO|Caldera to get copies of those header files.

If you can't get the header files from SCO|Caldera, please contact me via e-mail at <abe@purdue.edu>. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

17.0 Sun Problems

17.0.5 Statement of deprecation

Lsof support for SunOS 4.1.x was last tested at revision 4.51.
Contact me via e-mail at <abe@purdue.edu> if you're interested in
obtaining it. Make sure "lsof" appears in the "Subject:" line so
my e-mail filter won't classify your letter as Spam.

17.1 My Sun gcc-compiled lsof doesn't work -- why?

Gcc can be used to build lsof successfully. However, an
improperly installed Sun gcc compiler will usually not
produce
a working lsof.

If your Sun gcc-compiled lsof doesn't report anything, or
reports ``can't read proc table,'' or gcc refuses to compile
lsof without error, check that the gcc step that "fixes"
Sun header files was run on the system where you're using
gcc to compile lsof. As an alternative, if you have the
SunPro C 5.0 compiler or later available, use it to compile
lsof -- e.g., use the solariscc Configure abbreviations.

17.2 How can I make lsof compile with gcc under Solaris 2.[456],
2.5.1, 7, 8 or 9?

Presuming your gcc-specific header files are wrong for
Solaris, edit the lsof Configure-generated Makefile and
lib/Makefile and make this change:

```
 CFGF=   -Dsolaris=20400 ...
to
 CFGF=   -Dsolaris=20400 -D__STDC__=0 -I/usr/include ...
```

or change:

```
 CFGF=   -Dsolaris=20500 ...
to
 CFGF=   -Dsolaris=20500 -D__STDC__=0 -I/usr/include ...
```

or change:

```
 CFGF=   -Dsolaris=20501 ...
to
 CFGF=   -Dsolaris=20501 -D__STDC__=0 -I/usr/include ...
```

This is only a temporary
work-around. You really should
instruct gcc to to update your gcc-specific header files
or install a recent gcc (e.g., 3.2), which has no need for

private copies of Solaris include files.

17.3 Why does Solaris Sun C complain about system header files?

You're probably trying to use /usr/ucb/cc if you get compiler complaints like:

```
cc -O -Dsun -Dsolaris=20300 ...
"/usr/include/sys/machsig.h", line 81: macro BUS_OBJERR
redefines previous macro at "/usr/ucbinclude/sys/signal.h",
line 444
```

Note the reference to "/usr/ucbinclude/sys/signal.h". It reveals that the BSD Compatibility Package C compiler is in use. Lsof requires the ANSI C version of the Solaris C compiler, usually found in /usr/opt/bin/cc or /opt/SUNWspro/bin/cc.

Try adding a CC string to the lsof Makefile that points to the Sun ANSI C version of the Sun C compiler -- e.g.,

```
CC= /usr/opt/bin/cc
```

or

```
CC= /opt/SUNWspro/bin/cc.
```

17.4 Why doesn't lsof work under my Solaris 2.4 system?

If lsof doesn't work under your Solaris 2.4 system -- e.g., it produces no output, little output, or the output is missing command names or file descriptors -- you may have a pair of conflicting Sun patches installed.

Solaris patch 101945-32 installs a kernel that was built with a <sys/auxv.h> header file whose NUM_*_VECTORS definitions don't match the ones in the <sys/auxv.h> updated by Solaris patch 102303-02.

NUM_*_VECTORS in the kernel of patch 101945-32 are smaller than the ones in the <sys/auxv.h> of patch 102303-02. The consequence is that when lsof is compiled with the <sys/auxv.h> whose NUM_*_VECTORS definitions are larger than the ones used to compile the patched kernel, lsof's user structure does not align with the one that the kernel employs.

If you have these two patches installed, contact Sun and complain about the mis-match.

You may be able to work around the problem by editing
/usr/include/sys/auxv.h to have the following NUM_*_VECTORS
definitions:

```
#define NUM_GEN_VECTORS 4
 #define NUM_SUN_VECTORS 8
```

The Configure script issues a prominent WARNING that you should
try the work-around.

I thank Leif Hedstrom for identifying the offending patches.

17.5 Where are the Solaris header files?

If you try to compile lsof under Solaris and get a compiler
complaint that it can't find system header files, perhaps
you forgot to add the header file package, SUNWhea.

17.6 Where is the Solaris /usr/src/uts/<architecture>/sys/machparam.h?

When you try to Configure lsof for Solaris 2.[23456], 2.5.1,
and 7 -- e.g., on a `uname -m` == sun4m system -- Configure
complains:

```
  grep: /usr/src/uts/sun4m/sys/machparam.h:
No such file or directory
  grep: /usr/src/uts/sun4m/sys/machparam.h:
No such file or directory
```

And when you try to compile the configured lsof, cc or gcc
complains:

```
  dproc.c:530: `KERNELBASE' undeclared (first use this function)
```

The explanation is that somehow your Solaris system doesn't
have
the header files in /usr/src/uts it should have. Perhaps
someone removed the directory to save space. Perhaps you're
using a gcc installation, copied from another system. In any
event, you will have to load the header files from the SUNWhea
package of your Solaris distribution.

KERNELBASE is an important symbol to lsof -- it keeps lsof
from sending an illegal kernel value to kvm_read() where
a segmentation violation might result (a bug in the kvm
library). Lsof can get illegal kernel values because it
reads kernel values slowly with kvm_read() calls that the

kernel is changing rapidly.

Lsof doesn't need KERNELBASE at Solaris 2.5 and above, because it has a KERNELBASE value whose address lsof can find with /dev/ksyms and whose value it can read with kvm_read(). Under Solaris 2.5 /usr/src/uts has moved to /usr/platform.

17.7 Why does Solaris lsof say ``can't read proc table''?

When lsof collects data on processes, using the kvm_*() functions to scan the
kernel's proc structure table, it
checks to make sure it has identified a reasonable number of them -- a minimum of three. When lsof can't identify three processes during a scan, it repeats the scan.

When five scans fail to yield three processes, lsof issues the fatal message:

```
lsof: can't read proc table
```

and exits.

Usually lsof fails to identify three processes during a scan because its idea of the form of the proc structure differs from that being used by the kernel. Since the proc structure is defined in <sys/proc.h> and other /usr/include header files, the root cause of a proc structure discrepancy usually can be found in the composition of /usr/include.

One common way that /usr/include header files can be incorrect is that gcc was used to compile lsof, gcc used its special (i.e., "fixed") header files instead of the ones in /usr/include, and the special gcc header files weren't updated when Solaris was. Answers to these questions:

My Sun gcc-compiled
lsof doesn't work -- why?

How can I make lsof compile with gcc under Solaris 2.[456], 2.5.1, 7, 8 or 9?

Why does Solaris Sun C complain about system header files?

discuss the gcc header file problem and offer suggestions on how to fix it or work around it.

It may also be that you are trying to run a version of lsof that was compiled on an older version of Solaris. For example, an lsof executable, compiled for Solaris 2.4, will produce the ``can't read proc table'' message if you try to run it under Solaris 2.5. If you have compiled lsof under Solaris 2.5 and it still won't work, see if the header files in /usr/include have been updated to 2.5, or still represent a previous version of Solaris.

Another source of header file discrepancies to consider is the Solaris patch level and whether a binary kernel patch was not matched with a corresponding header file update. See the "Why doesn't lsof work under my Solaris 2.4 system?" question for an example of one in Solaris 2.4 -- there may be other such patch conflicts I don't know about.

17.8 Why does Solaris lsof complain about a bad cached clone device?

When lsof revisions below 4.04 have been run on a Solaris system and have been allowed to create a device cache file, the running of revisions 4.04 and above on the same systems may produce this complaint:

```
lsof: bad cached clone device: ...
lsof: WARNING: created device cache file: ...
```

This is the result of a change in the device cache file that took place at lsof revision 4.04. The change introduced a node number into the clone device lines of the device cache file and was done in such a way that lsof could detect device cache files whose clone lines don't have node numbers (lines created by previous lsof revisions) and recognize the need to regenerate the device cache file.

17.9 Why doesn't Solaris make generate .o files?

Solaris /usr/ccs/bin/make won't generate .o files from .c files if /usr/share/lib/make/make.rules is missing. It may be found in and installed from the SUNWsport package.

17.10 Why does lsof report some Solaris 2.3 and 2.4 lock types as `N'?

For Solaris 2.3 with patch P101318 installed at level 45 or above, and for all versions of Solaris 2.4, NFS locks are represented by a NFS-specific kernel lock structure that sometimes lacks a read or write lock type indicator.

When lsof encounters such a lock structure, it reports the lock type as `N'.

17.11 Why does lsof Configure say "WARNING: no cc in ..."?

When lsof's Configure script is executed with the solariscc abbreviation it tries to make sure it's using the Sun C compiler and not the UCB substitute from /usr/ucb/cc. Thus, it looks for cc in the "standard" Sun compiler location, /opt/SUNWspro/bin.

If Configure can't find cc there, it issues the warning:

```
lsof: WARNING: no cc in /opt/SUNWspro/bin;
using cc without path.
```

and uses cc for the compiler name, letting the shell find cc with
its PATH environment variable.

You can tell Configure where to find your cc with the SOLARIS_CCDIR cross-configuration environment variable. (See 00XCONFIG for more information on SOLARIS_CCDIR). For example, use this Configure shell command:

```
SOLARIS_CCDIR=/usr/special/bin Configure -n solariscc
```

(SOLARIS_CCDIR should be the full path to the directory containing your cc.)

17.12 Solaris 7, 8 and 9 Problems

17.12.1 Why does lsof say the compiler isn't adequate for Solaris 7, 8 or 9?

Solaris 7, 8 and 9 kernels come in two flavors, 32 and 64 bit. 64 bit kernels run on machines that support the SPARC v9 instruction set architecture. Separate executables for some programs, -- e.g., ones using libkvm like lsof -- must be built for 32 and 64 bit kernels.

Previous Sun (e.g., SC4.0) and earlier gcc compilers will build lsof for 32 bit kernels, but they won't build it for 64 bit kernels. Compilers that will build lsof for 64 bit Solaris 7, 8 and 9 kernels are the Sun
WorkShop Compilers
C 5.0 and above, and recent gcc versions, e.g., 3.2.

When given the ``-xarch=v9" flag, the C 5.0 compiler and above, and associated loader and 64 bit libraries will build a 64 bit lsof executable; when given the "-m64" or "-mcpu=v9" (deprecated) flags, an appropriate gcc compiler will build a 64 bit lsof executable.

When the lsof Configure script detects a 64 bit kernel is in use (e.g., by executing `/bin/isainfo -kv`), and when it finds that the specified compiler is inappropriate, it complains with these messages:

For gcc:

```
"!!!WARNING!!!=========!!!WARNING!!!=========!!!WARNING!!!"
"!                                                       !"
"! LSOF NEEDS TO BE CONFIGURED FOR A 64 BIT KERNEL, BUT  !"
"! THIS GCC DOESN'T SUPPORT THE BUILDING OF 64 BIT       !"
"! SOLARIS EXECUTABLES.  LSOF WILL BE CONFIGURED FOR A   !"
"! 32 BIT echo KERNEL.                                   !"
"!                                                       !"
"!!!WARNING!!!=========!!!WARNING!!!=========!!!WARNING!!!"
```

For Sun C:

```
!!!WARNING!!!==========!!!WARNING!!!==========!!!WARNING!!!
!                                                        !
! LSOF NEEDS TO BE CONFIGURED FOR A 64 BIT KERNEL, BUT    |
! THE VERSION OF SUN C AVAILABLE DOESN'T SUPPORT THE      !
! -xarch=v9 FLAG.  LSOF WILL BE CONFIGURED FOR A 32 BIT   !
! KERNEL.                                                 !
!                                                        !
!!!WARNING!!!==========!!!WARNING!!!==========!!!WARNING!!!
```

17.12.2 Why does Solaris 7, 8 or 9 lsof say "FATAL: lsof was compiled for..."?

Solaris 7, 8 or 9 lsof may say:

```
lsof: FATAL: lsof was compiled for a xx bit kernel,
but this machine has booted a yy bit kernel.

Where: xx = 32 or 64
yy = 64 or 32

(xx and yy won't match.)
```

This message indicates that lsof was compiled for one size

kernel and is being asked to
execute on a different size
one. That's not possible for programs like lsof that use
libkvm.

Depending on the instruction sets for which you need Solaris
7, 8 or 9 lsof, you may need two or more versions of lsof,
compiled for each kernel size, installed for use with
/usr/lib/isaexec. See the "How do I install lsof for
Solaris 7, 8 or 9?" section of this document for more
information on that.

17.12.3 How do I build lsof for a 64 bit Solaris kernel under a 32
bit Solaris kernel?

If your Solaris system has an appropriate compiler (e.g.,
WorkShop Compilers C 5.0 and above, or a recent gcc like
3.2) and the 64 bit libraries have been installed, you can
force lsof's Configure script to build a 64 bit version of
lsof with:

```
$ SOLARIS_KERNBITS=64 Configure -n solariscc
```

The SOLARIS_KERNBITS environment variable is part of the
lsof cross-configuration support, described in the 00XCONFIG
file of the lsof distribution.

17.12.4 How do I install lsof for Solaris 7, 8 or
9?

If you are installing lsof where it will be used only under
the bit size kernel for which it was built, no special
installation is required.

If, however, you are installing different versions of lsof
for different bit sizes -- e.g., for use on a 64 bit NFS
server and from its 32 bit clients -- you should read the
man page for isaexec(3C) and install lsof according to its
instructions.

The executable at the directory where lsof is to be found
should be a hard link to /usr/lib/isaexec or a copy of it.
In the directory there must be instruction architecture
subdirectories -- e.g., .../sparc/ and .../sparcv9/. The
lsof for 64 bit size kernels is installed in the .../sparcv9/
subdirectory; the one for 32 bit size kernels, in .../sparc/.

For example, if you're installing 32 and 64 bit lsof

executables in /usr/local/etc, you would:

```
 # cd /usr/local/etc
 # ln /usr/lib/isaexec lsof
 # mkdir sparc sparcv9
 # install the 32 bit lsof as sparc/lsof
 # install the 64
bit lsof as sparcv9/lsof
 # chmod, chown, and chgrp sparc/lsof and
   sparcv9/lsof appropriately
```

Lsof permissions and ownerships are the same whether one or more lsof executables are being installed, with or without the /usr/lib/isaexec hard link.

17.12.5 Why does my Solaris 7, 8 or 9 system say it cannot execute lsof?

When you attempt to execute lsof, your Solaris 7, 8 or 9 shell may complain:

```
    ksh: ./lsof: cannot execute
```

If the lsof executable exists and has the proper execution permissions, this error may be the result of trying to execute an lsof, built for a 64 bit kernel, on a 32 bit kernel.

This will tell you about the lsof executable:

```
    $ file lsof
    lsof: ELF 64-bit MSB executable SPARCV9 Version 1,
   dynamically linked, not stripped
```

The "64-bit" notation indicates the binary was built for a 64 bit kernel. To see the running kernel bit size, use this command:

```
    $ isainfo -kv
    32-bit sparc kernel modules
```

The "32-bit" notation indicates a 32 bit kernel has been booted.

The only work-around is to obtain, or Configure and make, an lsof for the appropriate kernel bit size. If you Configure and make lsof on the kernel where you wish to

run it the proper compiler, the lsof Configure step will generate Makefiles that can be used with make to build an appropriate lsof executable.

To compile a 64 bit lsof, you must have an appropriate compiler -- i.e., Sun WorkShop Compilers C 5.0 or higher or a recent gcc like 3.2.

17.12.6 What gcc will produce 64 bit Solaris 7, 8 and 9 executables?
8 and 9 executables?

Properly built and installed recent gcc versions -- e.g., 3.2 -- will build lsof for 64 bit Solaris kernels.

If you update your gcc version to 3.2 or later, make sure the private gcc header files become current -- i.e., clear out any private header files from a previous gcc or Solaris installation before installing the new ones, or build to a new --prefix root and replace the old root with it after the
build and installation are complete.

17.12.7 Why does lsof on my Solaris 7, 8 or 9 system say, "can't read namelist from /dev/ksyms?"

You're probably trying to use an lsof executable built for an earlier Solaris release on a 64 bit Solaris 7, 8 or 9 kernel. The output from `lsof -v` will tell you the build environment of your lsof executable. You should also have gotten a warning message that lsof is compiled for a different Solaris version than the one under which it is running -- something like this:

```
lsof: WARNING: compiled for Solaris release X; this is Y
```

You need to build lsof on the system where you want to use it. For 64 bit Solaris 7, 8 and 9 you need a compiler that can generate 64 bit Solaris executables -- e.g., the Sun Workshop 5 C compiler or later, or a recent gcc version like 3.2. See the "Why does lsof say the compiler isn't adequate for Solaris 7, 8 or 9?" section and the ones following it for a discussion of building lsof for 64 bit Solaris
7, 8 or 9.

17.13 Solaris and COMMON

17.13.1 What does COMMON mean in the NAME column for a Solaris VCHR

file?

When lsof puts COMMON or (COMMON) in the NAME column of a Solaris VCHR file, it means that the file is handled by the special file system functions of the kernel through a common vnode.

17.13.2 Why does a COMMON Solaris VCHR file sometimes seem to have an incorrect minor device number?

When lsof reports on an open file in a Solaris special file system that uses a COMMON vnode, and the file is a VCHR file, lsof tries to locate the associated device node by looking for matches on the major and minor device numbers first.

If no major and minor match results, lsof then looks for a match on pseudo and clone device files. (See /devices/pseudo.) Those device nodes are matched specially by either their major or minor device numbers, but not both. Hence, when lsof finds a match under those special conditions, it may report a value in its output DEVICE column that differs from one of the major and minor numbers of the device node.

Here's an example from a sun4m Solaris 7 system:

```
$ ls -li /devices/pseudo/pm@0:pm
151261 crw-rw-rw-   1 root     sys      117,  0 ...
$ lsof /devices/pseudo/pm@0:pm
COMMAND ... DEVICE ...   NODE NAME
powerd       117,1 ... 151261 /devices/pseudo/pm@0:pm (COMMON)
Xsun    ...  117,0 ... 151261 /devices/pseudo/pm@0:pm
```

Note that the DEVICE value for the file with (COMMON) in its name field has a different minor device number (1) from what ls reports (0), while the DEVICE value for the file without (COMMON) matches the ls output exactly. Both match on the major device number, 117. The minor device number mis-match is a result of the way the Solaris kernel handles special file system common vnodes, and it's the reason lsof puts (COMMON) after the name to signal that a mis-match is possible.

17.14 Why don't lsof and Solaris pfiles reports always match?

/usr/proc/bin/pfiles

for Solaris 2.6, 7, 8, and 9 also
reports information on open files for processes. Sometimes
the information it reports differs from what lsof reports.

There are several reasons why this might be true. First,
because pfiles is a Sun product, based on Sun kernel
features, its developers have a better chance of knowing
exactly how open file information is organized. I sometimes
have to guess at how kernel file structure linkages are
constructed by gleaning hints from header files.

Second, lsof is aimed at providing information, specifically
device and node numbers, that can be used to identify named
file system objects -- i.e., path names. Thus, lsof tries
to make sure its device and node numbers match those reported
by stat(2). Pfiles doesn't always report numbers that
match stat(2) -- e.g., for files using clone and pseudo
devices via common vnodes like the nlist() /dev/ksyms usage.

Here's the Solaris 7 COMMON VCHR example again with additional
pfiles output:

```
$ ls -li /devices/pseudo/pm@0:pm
 151261 crw-rw-rw-   1 root     sys      117,  0 ...
 $ lsof /devices/pseudo/pm@0:pm
 vic1: 10 = lsof /dev/pm
 COMMAND ... DEVICE ...   NODE NAME
 powerd  ...  117,1 ... 151261 /devices/pseudo/pm@0:pm (COMMON)
 Xsun    ...  117,0 ... 151261 /devices/pseudo/pm@0:pm
 $ pfiles ...
 0: S_IFCHR ... dev:32,24 ino:61945 ... rdev:117,1
 ...
 14: S_IFCHR ... dev:32,24 ino:151261 ... rdev:117,0
```

Note that the NODE number, reported by lsof, matches what
ls(1) and stat(2) report, while the ino value pfiles reports
doesn't. Lsof also indicates with the (COMMON) notation
that the DEVICE number is a pseudo one, derived from the
character device's value. The lsof DEVICE value matches
the pfiles rdev value, correct behavior for a character
device, but pfiles gives no sign that it's not possible to
find that character device number in /devices with ls(1)
or stat(2).

17.15 Why does lsof say, "kvm_open(namelist=default,
core=default):
Permission denied?"

Lsof needs permission to read from the /dev/kmem and /dev/mem memory devices. Access to them is opened via a call to the kvm_open() library function and it reports the indicated message.

You must give lsof permission to read the memory devices. The super user can almost always do that, but other lsof users can do it if some group -- e.g., sys -- has permission to read the memory devices, and the lsof binary is installed with the group's ownership and with the setgid permission bit enabled.

17.16 Why is lsof slow on my busy Solaris UFS file system?

Lsof may be slow on a busy Solaris UFS file system when UFS logging has been enabled with the "logging" mount option. That option can significantly increase disk operations under certain conditions -- e.g., when a lot of files are accessed quickly.

When only the "logging" option is specified to mount, all file accesses (atime updates) are logged to the UFS logging queue.
Each atime update requires two writes to the disk to complete it.

If you want to do UFS logging -- and there are reliability advantages to it -- consider using the "logging,noatime" mount options instead. That will shift atime updates from the logging queue to fewer and independent asynchronous operations, consequently making the UFS logging queue a smaller bottleneck.

Consult mount_ufs(1M) for more information on the logging and noatime options.

(My thanks to Casper Dik for this tip on improving the performance of UFS logging.)

17.17 Why is lsof so slow on my Solaris 8 or 9 system?

Solaris 8 has a post-release feature upgrade modifying kernel name cache (DNLC) handling that can slow lsof throughput dramatically. The feature, sometimes called negative DNLC caching, is standard in Solaris 9.

As best I can tell, when you install the Solaris 8 MU1

package, you get negative DNLC caching. If this pipe
produces any output, your system has negative DNLC caching.

```
$ nm /dev/ksyms | grep negative_cache_vnode
```

The reason negative DNLC caching perturbs lsof is that a
single vnode address (found in the negative_cache_vnode
kernel variable) is used to mark entries in the DNLC that
are not (the negative part) found on disk.

Since a single vnode address (the DNLC key lsof uses) can
represent many (I've seen upwards of 30,000.) DNLC entries,
their presence overloads lsof's internal DNLC hashing
function. An overloaded hash function is a slow hash
function, and lsof's slows to a crawl when it encounters
thousands of keys that produce the same value when the lsof
DNLC hash function is applied to them.

The solution is simple -- ignore negative DNLC cache keys.
They don't represent path name components lsof can use.
Lsof revisions 4.50 and above have an addition that ignores
them and the performance of those lsof revisions improves
significantly when presented with negative DNLC cache keys.

If you don't have an lsof revision at 4.51
or later, there's
a work-around. Use lsof's ``-C'' option. It disables
lsof's DNLC caching. Of course, that also inhibits the
reporting of any path name components from the kernel DNLC.
When ``-c'' is used, lsof will continue to report file
system and character device paths.

17.18 Solaris and VxFS

17.18.1 Why doesn't lsof support VxFS 3.4 on Solaris 2.6, and above?

Lsof will not support VxFS version 3.4 on Solaris 2.6 and above
unless some files from VxFS Update 2 have been installed. VxFS
3.4 FCS and VxFS 3.4 update 1 lack the header files lsof
normally uses to obtain information from the VxFS 3.4 kernel
node structure, vx_inode. VxFS 3.4 Update 2 provides a method
whereby lsof can obtain the necessary vx_inode information from
the vxfsu_get_ioffsets() function in Veritas utility
libraries.

The utility libraries (32 bit and 64 bit versions) may be
found in /opt/VRTSvxfs/lib. An ancillary header file may

be found in /opt/VRTSvxfs/include/sys/fs/vx_libutil.h.
Documentation
of the vxfsu_get_ioffsets(3) function may be
found in /opt/VRTS/man/man3/vxfsu_get_ioffsets.3.

Those files of VxFS 3.4 Update 2 may be downloaded from:

ftp://ftp.veritas.com/pub/support/vxfs_34.i64243.tar

The vxfs_34.i64243.tar archive will unpack into an i64243
directory containing these files:

```
$ ls i64243
README
libvxfsutil.sol26.sums
libvxfsutil.sol26.tar.Z
libvxfsutil.sol27.sums
libvxfsutil.sol27.tar.Z
libvxfsutil.sol28.sums
libvxfsutil.sol28.tar.Z
```

Read README. Select the *.tar.Z file appropriate for your
Solaris version. Its contents will unpack into /opt/VRTS
and /opt/VRTSvxfs, so you will need sufficient permission
-- e.g., do it as root -- to unpack the uncompressed archive.
Once you've done that, it's a good idea to compare the
checksums of the archive you unpacked with the ones recorded
in the appropriate *.sums file. Use `sum -r` to verify
the checksums.

For example, if you want the Solaris 8
version, uncompress
and unpack libvxfsutil.sol28.tar.Z -- e.g.,

```
$ su
...
# cd i6423
# zcat libvxfsutil.sol28.tar.Z | tar xf -
```

That should create these new files and subdirectories with
the indicated checksums:

```
File or subdirectory   sum -r

/opt/VRTSvxfs/include/vxfsutil.h  03938
/opt/VRTSvxfs/lib/libvxfsutil.a  51794
/opt/VRTSvxfs/lib/sparcv9/
/opt/VRTSvxfs/lib/sparcv9/libvxfsutil.a 07420
```

/opt/VRTS/man/man3/
/opt/VRTS/man/man3/vxfsu_get_ioffsets.3 62480

Once these files are in place, run lsof's Configure script for the solaris or solariscc abbreviation. Configure will locate the appropriate VxFS 3.4 Update 2 files and set up for the making of an lsof that will properly display open VxFS 3.4 file information.

17.18.2 Why does lsof report "vx_inode: vxfsu_get_ioffsets error" for open Solaris 2.6 and above VxFS 3.4 and above files?

Even when lsof supports VxFS 3.4 and above on Solaris 2.6 and above, it may report "vx_inode: vxfsu_get_ioffsets error" in the NAME column for all VxFS files.

The usual cause is that lsof doesn't have permission to read the file at the end of the /dev/vxportal symbolic link. If, for example, lsof has been installed setgid(sys), then the /dev/vxportal symbolic link destination should be owned by the sys group and readable by it.

Update 2 for VxFS 3.4 sets the modes of the /dev/vxportal symbolic link destination to 0640 and the group ownership to sys. But I have had a report that the modes are wrong in a VxFS 4.0 installation.

Another cause may be that the system has more than one version of VxFS installed (Only one can be active.), and lsof's Configure script did not choose the header files and libraries for the active VxFS version. Configure opts for VxFS 4.0 and above header files and libraries (in /opt/VRTS) in preference to those for VxFS below 4.0 (in /opt/VRTSvxfs).

Look for the directories /opt/VRTS and /opt/VRTSvxfs. If you have /opt/VRTS,
make sure its header and library symbolic links point to those of the active VxFS version.

If you have both directories, look at the CFLAGS that Configure constructed for making lsof and see which directory path follows a -I option. If that doesn't match the directory path of the active VxFS version, try pointing Configure at the correct directory with the SOLARIS_VXFSINCL environment variable -- e.g.,

```
$ SOLARIS_VXFSINCL=/opt/.../include ./Configure -n solaris
```

17.18.3 Why does Solaris Configure claim there is no VxFS library?

The lsof Configure script, when configuring for Solaris, may report:

```
FATAL: no VxFS .../libvxfsutil.a
```

That fatal error message indicates lsof has found the VxFS utility library's header files, but can't find the library itself in the expected location adjacent to the header files.

One possible cause is an incorrect symbolic link from /opt/VRTS/lib/sparcv9/libvxfsutil.a to the library's real location. (Some VxFS distributions declared the link incorrectly.) Use `ls -lL` on that path to see if it exists. If it doesn't exist, the link may be missing an additional leading "../" component.

If the problem is a missing "../" from the library's link, you can correct the link or check with Veritas/Symantec for the patch that corrects it.

If the problem is not a missing "../", and you know the libvxfsutil.a location, you can define its path in the SOLARIS_VXFSLIB environment variable before running the lsof Configure script. (See 00XCONFIG for information about using the SOLARIS_VXFSLIB environment variable.)

If you have no libvxfsutil.a, you must obtain it from Veritas/Symantec or find it in your VxFS installation package.

17.18.4 Why doesn't Solaris lsof report VxFS path name components?

Solaris lsof will report path name components for VxFS versions that use the common Solaris Dynamic Name Lookup Cache (DNLC) or on some file systems of VxFS versions that support the VxFS Reverse Name Lookup (RNL) facility.

VxFS versions 3.3 (approximately) and below use the common Solaris DNLC. (I haven't been able to determine exactly when VxFS stopped using the DNLC.) For versions above that boundary, but below 4.0, lsof can't report path name components.

At VxFS 4.0 and above, lsof can be compiled to use the VxFS RNL facility for reporting path names. If "-DHASVXFSRNL" appears

in the compiler flags section of lsof "-v" option output, then the lsof Configure script detected the VxFS RNL facility and lsof has been compiled to use it.

Lsof's use of the RNL facility can fail when the VxFS file system disk layout version is below 6. In that case, lsof can report no path name components. For more information, see the vxfs_inotopath(3) manual page. any of the following commands will show the disk layout version for a VxFS file system, when supplied the block device or mount point on which the file system is mounted.

```
   fstyp -v <block_device>
 or
   mkfs -m
<block_device>
 or
   vxupgrade <mount_point>
```

You must have permission to read the block device -- e.g., be the root user.

You may also be able to upgrade an older disk layout to one that will work with the RNL. See the vxupgrade(1M) man page for more information on that.

When lsof can't report VxFS path name components, it reports the file system mount point and the path name of device on which it is mounted. The device path name is enclosed in parentheses.

17.18.5 Why does Solaris 10 lsof report scrambled VxFS paths?

Solaris 10 lsof may report a bogus, scrambled path for an open VxFS file, when lsof obtains the path from a vnode's cached path. Veritas/Symantec reports that their Solaris 10 implementation has bugs in the way it handles the Solaris 10 vnode cached path and those bugs will be fixed in an upcoming patch some time after August 15, 2005.

When Solaris 10 lsof reports a path for an open VxFs file obtained via the VxFS Reverse Name Lookup facility,
the path
will be correct.

Also see the answers to the questions "Why does Solaris 10 lsof sometimes report the wrong path name?" and "Why doesn't Solaris lsof report VxFS path name components?"

17.19 Large file problems

17.19.1 Why does lsof complain it can't stat(2) a Solaris 2.5.1 large file?

When given an argument that is the path to a Solaris 2.5.1 file, enable for large file operations with the O_LARGEFILE open(2) option, lsof complains that it can't stat(2) the file. That's because lsof isn't using a stat(2) call and associated structure enabled for large files.

This error has been fixed, starting at lsof revision 4.58 for Solaris 2.6 and above. That fix won't work on Solaris 2.5.1 and I no longer have access to a Solaris 2.5.1 test system to develop a separate fix.

The work-around is to avoid specifying a O_LARGEFILE path as an argument to lsof on Solaris 2.5.1. Instead use a combination of lsof and grep to achieve the same results, albeit more clumsily.

17.20 Why does lsof get a segmentation fault on 64 bit Solaris 8 using NIS+?

I have received a report from Gary Craig that lsof produces a segmentation fault on his 64 bit Solaris 8 system using NIS+. Via an independent test program we have exonerated lsof and tracked the fault to the NIS+ __nis_server_name() function in the C name server library, -lnsl.

Lsof causes the __nis_server_name() NIS+ function to be called by calling getservent() to read entries of the port number to service name map.

The only Sun bug ID that appears to describe the problem is 4304244, although its text is unclear enough to leave room for doubt.

Until Sun eliminates the __nis_server_name() segmentation fault cause, a work-around for lsof is to use its "-P" option, causing lsof to avoid port to service name lookups.

17.21 Will lsof crash the Solaris kernel?

I've received and investigated one report that it has when the Sun hardware (a QME interface) was faulty. Today (May

23,
2002) I've learned that Sun has reports of kernel
crashes caused by adb, lsof, and mdb.

The Sun investigation pinpointed a problem in the /dev/kmem
kernel driver and there is a Sun bug report, 4344513, about
the problem. There is a fix in Solaris 9, and patches for
Solaris 7 and 8 (SPARC and x86).

To see if your Solaris system is fixed, look for a
/devices/pseudo/*allkmem node.

Extensive address filtering was added to lsof revision 4.50
to forestall what I then (July 2001) believed to be only
the possibility that lsof might crash Solaris. However,
the filtering isn't perfect, since a filtered address might
become invalid after lsof has filtered it but before lsof
has delivered it to /dev/kmem. That filtering work is
described in .../dialects/sun/solaris_kaddr_filters, also
available at:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/solaris_kaddr_filters

The best and safest work-around is to upgrade to Solaris
9 or install an appropriate patch or its equivalent
from
this list:

```
Solaris SPARC  x86
Version Patch  Patch
======= =====  =====
  7 106541-20 106542-20
  8 108528-14 108529-14
```

17.22 Why does lsof on Solaris 7, 8, or 9 report a kvm_open()
failure?

When lsof is started on some Solaris 7, 8, and 9 systems
it may report:

```
lsof: kvm_open(namelist=default, corefile=default): \
No such file or directory
```

Lsof revisions 4.65 and later will first report:

```
lsof: cannot stat /dev/allkmem
```

The second message, not delivered in lsof revisions below

4.65, explains the cause of the kvm_open() failure; it can't find /dev/allkmem.

/dev/allkmem is a device added to Solaris 7 and 8 in patches and in the Solaris 9 FCS. See the preceding "Will lsof crash the Solaris kernel?" section for more information on /dev/allkmem and the patches.

The kvm_open(3KVM) function in the KVM library of patched Solaris 7 and 8 systems and in Solaris 9 expects to find /dev/allkmem and exits on error when it does not.

If you have installed the patch that updated your KVM library to a version that expects /dev/allkmem to be present and it is not, you may need to reconfigure your system's devices with devfsadm(1M) or enter "boot -r" to the OpenBoot monitor's prompt (usually "ok").

17.23 Solaris and SAM-FS

17.23.1 Why does Solaris lsof report "(limited SAM-FS info)"?

Lsof 4.68 and above report "(limited SAM-FS info)" on Solaris in the NAME column after the path or file system name for all files it finds on SAM-FS file systems.

That's because no more information is known about the composition of the nodes that follow SAM-FS vnodes. If you can provide that information, please contact me via e-mail at <abe@purdue.edu>. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

17.23.2 Why can't lsof locate named SAM-GS files?

Solaris lsof 4.68 and above can't locate files on SAM-FS file systems when the files are named as lsof arguments because
lsof doesn't know how to locate open SAM-FS file device and node number information. (See also 'Why does Solaris lsof report "(limited SAM-FS info)?')

17.24 Lsof and Solaris 10 zones

17.24.1 How can I make lsof list the Solaris zone?

Use the lsof "-z [z]" option.

17.24.2 Why doesn't lsof work in a Solaris 10 zone?

When run from within a Solaris 10 zone, lsof will usually report:

```
lsof: can't stat(/devices): No such file or directory
```

That's because a Solaris zone usually has no /devices subdirectory, a restriction of the zone implementation intended to limit the ability of zone processes to control global system resources, including physical devices.

While a zone may have a /dev subdirectory, that subdirectory usually lacks the /dev/allkmem, /dev/mem and /dev/kmem devices lsof and the KVM library it uses require.

The work-around is to run lsof in the global zone. When it is run in a global zone lsof will be able to report on processes running
in any zone, including the global zone.

17.24.3 Why does lsof complain it can't stat() Solaris 10 zone file systems?

When run from the global zone on Solaris 10 lsof may complain:

```
lsof: WARNING: can't stat() 15 zone file systems;
 using dev= options
```

The warning message means lsof found the reported number of file system entries in the mount table for which it didn't have permission to get stat(2) results, but which had "zone=" and "dev=" mount table options.

That is a normal restriction of Solaris 10 zones. Since the lsof warning message indicates it was able to find "dev=" options for the file systems, lsof will probably work correctly.

One work-around is to relax the restrictions on zone mount points, so that lsof can stat() them. While that may be possible by changing directory modes or group ownerships, it is probably not a good idea, because it weakens the restrictions zones are intended to provide.

Another work-around is to suppress the warning

message with
lsof's "-w" option. The down side of that is that it causes
the suppression of all warning messages, leading to the
possibility that some non-stat() warning messages will be
suppressed.

17.25 Solaris 10 problems

17.25.1 Why does Solaris 10 lsof sometimes report the wrong path name?

When a path name component is renamed -- e.g., with mv(1) --
Solaris 10 lsof may report the old component for an open file
that used the component in its path before the rename. That's
because Solaris 10 lsof reports the path name cached in the
open file's vnode and the Solaris 10 kernel doesn't update the
open vnode's cached path name when a component of it is changed.

When an open file is deleted -- e.g., with rm(1) -- the path
name by which it was opened remains cached in the vnode. Lsof
can be instructed to display that path name with the -X option.
The path name might be incorrect because of the rename problem
described above. See the answer to the 'What does "(deleted)"
mean
in the NAME column of a Solaris 10 open file?' question
for more information.

Lsof is sometimes able to detect that cached path name is
incorrect. In that case lsof may report only the mounted-on
directory and device of the file system or it may report that
the path name is of questionable accuracy by appending a
trailing "(?)" to it in the NAME column.

See the answer to the "Why does Solaris 10 lsof sometimes
report only the mounted-on directory and device?" and 'What
does "(?)" mean in the NAME column of a Solaris 10 open file?'
questions for more information.

17.25.2 Why does Solaris 10 lsof sometimes report only the mounted-on directory and device?

For some regular open files lsof may report only the mounted-on
directory and device of the file system on which the file
resides. That's because lsof was able to determine that the
path name cached in the open file's vnode is incorrect.

Lsof detects the cached path name is incorrect by applying
stat(2)

to it, provided that no error was detected when stat(2) was applied to the file system mounted-on directory during lsof setup. If a mounted-on directory stat(2) error was detected during setup, lsof does no cached path name analysis and simply reports it.

When the application of stat(2) to the cached path name returns a no-entry reply (the ENOENT error number), lsof concludes the path no longer exists (i.e., has been unlinked) and reports the mounted-on directory and device of the file system. That behavior can be modified with the -X option in lsof revisions 4.77 and above. See the answer to the 'What does "(deleted)" mean in the NAME column of a Solaris 10 open file?' for more information.

When the application of stat(2) to the cached path name returns a permission error reply (the EACCES or EPERM error numbers), lsof reports the cached path name and adds a trailing "(?)" to indicate the reported path name is of questionable accuracy. See the answer to the question 'What does "(?)" mean in the NAME column of a Solaris 10 open file?' for more information.

If the application of stat(2) to the cached path name yields any other error reply, lsof reports the mounted-on directory and device of the file system.

When the application of stat(2) to the cached path name succeeds, lsof compares the reported device and node numbers to what it has obtained for the open file from kernel structures. If they match, lsof reports the cached path name. If they don't match, lsof instead reports the mounted-on directory and device of the file system.

A work-around that allows lsof to apply stat(2) successfully to cached path names is to give lsof sufficient permission to do it -- i.e., run lsof as the root user.

17.25.3 What does "(deleted)" mean in the NAME column of a Solaris 10 open file?

When the -X option is specified to Solaris 10 lsof, it will report in its NAME column the path name cached for a deleted file in its vnode. The path name will be followed by "(deleted)".

Note that the path name cached in a file's vnode is the path

name by which the file was opened. It is not updated by the Solaris kernel when any path name component is changed. Hence, it may not represent the final path name the open file had.

See the answer to the "Why does Solaris 10 lsof sometimes report the wrong path name?" question for more information on how changing a path name component affects the correctness of a what lsof reports.

17.25.4 What does "(?)" mean in the NAME column of a Solaris 10 open file?

When lsof encounters a path name cached in the open file's vnode that stat(2) reports lsof lacks permission to access, lsof adds "(?)" to the path name reported in the NAME column to indicate the path name is of questionable accuracy.

See the answers to the "Why does Solaris 10 lsof sometimes report the wrong path name?" and "Why does Solaris 10 lsof sometimes report only the mounted-on directory and device?" questions
for more information on why lsof may report a path name of questionable accuracy.

A work-around that allows lsof to apply stat(2) successfully to cached path names is to give lsof sufficient permission to do it -- i.e., run lsof as the root user.

17.26 Solaris contract file problems

17.26.1 Why doesn't lsof report size, link count and node number for Solaris 10 contract files?

Lsof doesn't report size, link count or node number for Solaris 10 contract files because I don't know how to obtain them from contract file kernel structures.

17.26.2 Why can't lsof locate a Solaris 10 contract file by path name?

Because lsof can't find the node number of Solaris contract files, it can't match the device and node numbers it gets from applying stat(2) to the contract file path name with what it finds in kernel data.

17.27 Solaris 10 and above ZFS probblems

17.27.1 Why does Configure warn that ZFS support is not enabled?

To provide ZFS support it is necessary that lsof
have access to
the definitions of ZFS structures used by the kernel. Those
definitions are made available to lsof when it runs by the
libctl library.

If lsof's Configure script finds that ZFS is indicated by the
presence of the <sys/fs/zfs.h> header file, but the libctl
library is not indicated via the <libctl.h> header file, the
script concludes that ZFS support is not possible and issues
the following warning:

```
WARNING: ZFS support not enabled; libctf.h missing.
```

Install libctf support to remedy this problem.

17.28 Problems with Solaris 9 and above

17.28.1 Why does the compiler complain about lgrp_root on Solaris 9 and above?

When compiling lsof 4.84 on later Solaris 9 and 10 systems, the
compiler may report the following error:

```
/usr/include/sys/lgrp.h", line ...: identifier redeclared: lgrp_root
```

This error results from a conflict between usage of lgrp_root
in both <sys/lgrp.h> and <sys/lgrp_user.h> when _KMEMUSER or
_KERNEL is #define'd before <sys/lgrp.h>
is #include'd. This
problem is noted in Sunsolve bug ID 5064229.

The work-around is to use lsof revision 4.85 sources.

18.0 Lsof Features

18.1 Why doesn't lsof doesn't report on /proc entries on my system?

/proc file system support is generally available only for
BSD, SYSV R4 dialects, and Tru64 UNIX (Digital UNIX, DEC
OSF/1). It's also available for Linux, and Pyramid DC/OSx
and Reliant UNIX.

Even on some SYSV R4 dialects I encountered many problems
while trying to incorporate /proc file system support.

The chief problem is that some vendors don't distribute the header file that describes the /proc file system node -- usually called prdata.h.

18.2 How do I disable the device cache file feature or alter it's behavior?

To disable the device cache file feature for a dialect, remove the HASDCACHE definition from the machine.h file of the dialect's machine.h header file. You can also use HASDCACHE to change the default prefix (``.lsof'') of the device cache
file.

Be sure you consider disabling the device cache file feature carefully. Having a device cache file significantly reduces lsof startup overhead by eliminating a full scan of /dev (or /devices) once the device cache file has been created. That full scan also overloads the kernel's name cache with the names of the /dev (or /devices) nodes, reducing the opportunity for lsof to find path name components of open files.

If you're worried about the presence of mode 0600 device cache files in the home directories of the real user IDs that execute lsof, consider these checks that lsof makes on the file before using it:

1. To read the device cache file, lsof must gain permission from access(2).

2. The device cache file's modes must be 0600 (0644 if lsof is reading a system-wide device cache file) and its size non-zero.

3. There must be a correctly formatted section count line at the beginning of the file.

4. Each section must have a header line with a count that properly numbers the lines in the section. Legal sections are device, clone, pseudo-device, and CRC.

5. The lines of a section must have the proper format.

6. All lines are included in a 16 bit CRC, and it is recorded in a non-checksummed section line at the

end of the file.

7. The checksum computed when the file is read must match the checksum recorded when the file was written.

8. The checksum section line must be followed by end-of-information.

9. Lsof must be able to get matching results from stat(2) on a randomly chosen entry of the device section.

For more information on the device cache file, read the 00DCACHE file of the lsof distribution.

18.2.1 What's the risk with a perverted device cache file?

Even with the checks that lsof makes on the device cache file, it's conceivable that an intruder could modify it so it would pass lsof's tests.

The only serious consequence I know of this change is the removal of a file whose major device number identifies a socket from some user ID's device cache file. When such a device has been removed from the device cache file, and when lsof doesn't detect the removal, lsof may not be able to identify socket files when executed by the affected user ID. Only certain dialects are at risk to this attack -- e.g., SCO OpenServer and Solaris 2.x, 7, 8, and 9.

If you're tracking a network intruder with lsof, that could be important to you. If you suspect that someone has corrupted the device cache file you're using, I recommend you use lsof's -Di option to tell it to ignore it and use the contents of /dev (or /devices) instead; or remove the device cache file (usually .lsof_hostname, where hostname is the first component of the host's name returned by gethostname(2)) from the user ID's home directory and let lsof create a new one for you.

18.2.2 How do I put the full host name in a personal device cache file path?

Lsof constructs the personal device cache file path name from a format specified in the HASPERSDC #define in the

dialect's machine.h header file. As distributed HASPERSDC declares the path to be ``.lsof_'' plus the first component of the host name with the format ``.lsof_%L''.

If you want to change the way lsof constructs the personal device cache file path name, you can change the HASPERSDC #define and recompile lsof. If, for example, you #define HASPERSDC to be ``.lsof_%l'' (note the lower case `l'), Configure and remake lsof, then the personal device cache file path will be ``.lsof_'' plus the host name returned by gethostname(2).

See the 00DCACHE file of the lsof distribution for more information on the formation of the personal device cache file path and the use of the HASPERSDC #define.

18.2.3 How do I put the personal device cache file in /tmp?

Change the HASPERSDC definition in your dialect's machine.h header file.

When you redefine HASPERSDC, make sure
you put at least
one user identification conversion in it to keep separate the device cache files for each user of lsof. Also give some thought to including the ``%0'' conversion to define an alternate path for setuid-root and root processes.

Here's a definition that puts a personal device cache file in /tmp with the name ``.lsof_login_hostname_pers''.

```
#define HASPERSDC "/tmp/.lsof_%u_%l_pers"
```

Thus the /tmp personal device cache file path for login "abe" on host "lsof.itap.purdue.edu" would be:

```
/tmp/.lsof_abe_lsof.itap.purdue.edu_pers
```

You can add the User ID (UID) with the "%U" conversion and the first host name component with the ``%L'' conversion.

CAUTION: be careful using absolute paths like /tmp lest lsof processes that are setuid-root or whose real UID is root be used to exploit some security weakness via /tmp. Elect instead to add an alternate path for those processes with the ``%0'' conversion. Here's an extension of the previous HASPERSDC format

for /tmp that declares an alternate
path:

```
#define HASPERSDC "/tmp/.lsof_%u_%l_pers%0%h/.lsof_%L"
```

When the lsof process is setuid-root or its real UID is
root, presuming root's home directory is `/' and the host's
name is ``lsof.itap.purdue.edu'', the extended format yields:

```
/.lsof_vic
```

18.3 Why doesn't lsof know about AFS files on my favorite dialect?

Lsof currently supports AFS for these dialects:

AIX 4.1.4 (AFS 3.4a)
Linux 1.2.13 (AFS 3.3)
NEXTSTEP 3.2 (AFS 3.3)
Solaris 2.[56] (AFS 3.4a)

It may recognize AFS files on other versions of these
dialects, but I have no way to test that. Lsof may report
correct information for AFS files on other dialects, but
I can't test that either.

AFS support must be custom crafted for each UNIX dialect
and then tested. If lsof supports your favorite dialect,
but doesn't recognize its AFS files, probably I don't have
access to a test system. If you want AFS support badly
for your dialect, consider
helping me do the development
and testing.

18.3.1 Why doesn't lsof report node numbers for all AFS volume files,
or how do I reveal dynamic module addresses to lsof?

When AFS is implemented via dynamic kernel modules -- e.g.,
in NEXTSTEP -- lsof can't obtain the addresses of AFS
variables in the kernel that it uses to identify AFS vnodes.
It can guess that a vnode is assigned to an AFS file and
it can obtain other information about AFS files, but it
has trouble computing AFS volume node numbers.

To determine node numbers for AFS volumes other than the
root volume, /afs, lsof needs access to a hashed volume
structure pointer table. When it can't find the address
of that table, because AFS support is implemented via
dynamic kernel modules, lsof will return blanks in the

INODE column for AFS volume files. Lsof can identify the
root volume's node number (0), and can compute the node
numbers for all other AFS files.

If you have a name list file that contains the addresses
of
the AFS dynamic modules -- e.g., you saved module symbols
when you created a loadable module kernel with modload(8)
by specifying -sym -- lsof may be able to find the kernel
addresses it needs in that file.

Lsof looks up AFS dynamic kernel addresses for these dialects
at these default paths:

NEXTSTEP 3.2 /usr/vice/etc/afs_loadable

A different path to a name list file with AFS dynamic kernel
addresses may be specified with the -A option, when the -A
option description appears in lsof's -h or -? (help) output.

If any addresses appear in the -A name list file that also
appear in the regular kernel name list file -- e.g., /vmunix
-- they must match, or lsof will silently ignore the -A
addresses on the presumption that they are out of date.

Found in path(s):
* /opt/cola/permits/1885113566_1705126830.360409/0/lsof-4-93-2-dfsg-orig-1-tar-xz/lsof-4.93.2/00FAQ

1.2048 google-api-go-client 0.155.0

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1.2049 zcrypto 0.0.0-20230310154051-c8b263fd8300

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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//go:build go1.10
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```
package pq

import (
 "context"
 "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
 return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
 c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
//
 on it.
type NoticeHandlerConnector struct {
 driver.Connector
 noticeHandler func(*Error)
}
```

```
// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
 c, err := n.Connector.Connect(ctx)
 if err == nil {
  SetNoticeHandler(c, n.noticeHandler)
 }
 return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  return c.noticeHandler
 }
 return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
 setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  c.noticeHandler = handler
  return c
 }
 return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
```

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localtime.go, localtime_test.go:

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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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```
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package pq

import (
 "context"
 "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
 return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
 c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
```

```
//
 on it.
type NoticeHandlerConnector struct {
 driver.Connector
 noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
 c, err := n.Connector.Connect(ctx)
 if err == nil {
  SetNoticeHandler(c, n.noticeHandler)
 }
 return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  return c.noticeHandler
 }
 return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
 setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  c.noticeHandler = handler
  return c
 }
 return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
```

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localtime.go, localtime_test.go:

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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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* Optimize Java serialization of strings so that UTF-8 encoding happens only
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* Added atomicops for Solaris
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* Fixed minor IBM xlC compiler build issues
* Added atomicops for AIX (POWER)
Nipunn Koorapati <nipunn1313@gmail.com>
* Provide a type alias field ValueType
on EnumTypeWrapper
* Match service argument names to abstract interface

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1.2054 libxml-xpath-perl 1.44-1

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1.2055 libstring-shellquote-perl 1.04-1

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This distribution contains the String::ShellQuote module, plus a command-line interface to it. It contains some functions which are useful for quoting strings which are going to pass through the shell or a shell-like object. It is useful for doing robust tool programming, particularly when dealing with files whose names contain white space or shell globbing characters.

To build it, run:

```
perl Makefile.PL
make
make test
make install
```

For more detailed instructions see "man perlmodinstall", "perldoc perlmodinstall", or http://www.cpan.org/modules/INSTALL.html.

The documentation is embeded in the module, use

```
perldoc ShellQuote.pm
```

to read it before installation.

Roderick Schertler <roderick@argon.org>

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$Id: README,v 1.4 2005/05/03
10:53:33 roderick Exp $

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```
#!perl -w
use strict;

# $Id: shell-quote,v 1.3 2010-06-11 20:00:24 roderick Exp $
#
# Roderick Schertler <roderick@argon.org>

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use String::ShellQuote qw(shell_quote);

(my $Me  = $0 ne '-e' ? $0 : $^X) =~ s-.*/--;
my $Debug = 0;
my $Exit = 0;
```

```
my
 $Version = q$Revision: 1.3 $ =~ /(\d\S+)/ ? $1 : '?';

my @Option_spec = (
   'debug!' => \$Debug,
   'help!' => sub { usage() },
   'version' => sub { print "$Me version $Version\n"; exit },
);

my $Usage = <<EOF;
usage: $Me [switch]...
switches:
   --debug turn debugging on
   --help show this and then die
   --version show the version ($Version) and exit
Use \`perldoc $Me\' to see the full documentation.
EOF

sub debug {
   print STDERR "debug: ", @_, "\n" if $Debug;
}

sub usage {
   warn "$Me: ", @_ if @_;
   # Use exit() rather than die(), as Getopt::Long does eval().
   print STDERR $Usage;
   exit 1;
}

# This is basically Getopt::Long but it has the defaults set up the way I
# think they should be.

sub getopt {
   # Don't bother if there aren't any switches.  This test works because
   # I'm setting $REQUIRE_ORDER.
   return 1 unless @ARGV && substr($ARGV[0], 0, 1) eq '-';

   my $bundling = 0;
   if (@_ && ($_[0] eq -bundle || $_[0] eq -bundling)) {
 $bundling
 = 1;
 shift;
   }

   {
 # I'm setting this environment variable when loading Getopt::Long
 # so that the defaults for options added later (which aren't set
 # explicitly below) are more likely to match what I'd like.
```

```
 local $ENV{POSIXLY_CORRECT} = 1;
 require Getopt::Long;
   }

   Getopt::Long->VERSION(2.19);
   Getopt::Long::Configure(
 'no_auto_abbrev',
 'no_getopt_compat',
 'require_order',
 $bundling ? 'bundling' : (),
 'no_ignore_case',
 'prefix_pattern=(--|-)',
   ) if 1;

   # The getopt function puts the vars into its caller's package so
   # it's necessary to jump to it so that its caller is my caller.
   #goto &Getopt::Long::GetOptions;
   Getopt::Long::GetOptions(@_);
}

sub init {
   getopt -bundle, @Option_spec or usage if @ARGV;
}

sub main {
   init;
   print shell_quote(@ARGV), "\n"
 if @ARGV;
   return 0;
}

$Exit = main || $Exit;
$Exit = 1 if $Exit && !($Exit % 256);
exit $Exit;

__END__

=head1 NAME

shell-quote - quote arguments for safe use, unmodified
 in a shell command

=head1 SYNOPSIS

B<shell-quote> [I<switch>]... I<arg>...

=head1 DESCRIPTION
```

B<shell-quote> lets you pass arbitrary strings through the shell so that they won't be changed by the shell. This lets you process commands or files with embedded white space or shell globbing characters safely. Here are a few examples.

=head1 EXAMPLES

=over

=item B<ssh preserving args>

When running a remote command with ssh, ssh doesn't preserve the separate arguments it receives. It just joins them with spaces and passes them to C<$SHELL -c>. This doesn't work as intended:

```
ssh host touch 'hi there'  # fails
```

It creates 2 files, F<hi> and F<there>. Instead, do this:

```
cmd=`shell-quote touch 'hi there'`
ssh host "$cmd"
```

This gives you just 1 file, F<hi there>.

=item B<process find output>

It's not ordinarily possible to process an arbitrary list of files output by B<find> with a shell script. Anything you put in $IFS to split up the output could legitimately be in a file's name. Here's how you can do it using B<shell-quote>:

```
eval set -- `find -type f -print0 | xargs -0 shell-quote --`
```

=item B<debug shell scripts>

B<shell-quote> is better than B<echo> for debugging shell scripts.

```
debug() {
 [ -z "$debug" ] || shell-quote "debug:" "$@"
}
```

With B<echo> you can't tell the difference between C<debug 'foo bar'> and C<debug foo bar>, but with B<shell-quote> you can.

=item B<save a command for later>

B<shell-quote> can be used to build up a shell command to run later.

Say you want the user to be able to give you switches for a command you're going to run. If you don't want the switches to be re-evaluated by the shell (which is usually a good idea, else there are things the user can't pass through), you can do something like this:

```
  user_switches=
  while [ $# != 0 ]
  do
   case x$1 in
       x--pass-through)
     [ $# -gt 1 ] || die "need an argument for $1"
     user_switches="$user_switches "`shell-quote --
 "$2"`
        shift;;
       # process other switches
   esac
   shift
  done
  # later
  eval "shell-quote some-command $user_switches my args"
```

=back

=head1 OPTIONS

=over 4

=item B<--debug>

Turn debugging on.

=item B<--help>

Show the usage message and die.

=item B<--version>

Show the version number and exit.

=back

=head1 AVAILABILITY

The code is licensed under the GNU GPL. Check
http://www.argon.org/~roderick/ or CPAN for updated versions.

=head1 AUTHOR

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=cut

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program `Gnomovision' (a program to direct compilers to make passes
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.2058 libnet-http-perl 6.22-1

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patches, bug reports, help with troubleshooting, etc. A huge
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```
---
abstract: unknown
author:
 - 'Graham Barr <gbarr@pobox.com>'
build_requires:
 ExtUtils::MakeMaker: '0'
configure_requires:
 ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.44, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: '1.4'
name: TimeDate
no_index:
 directory:
   - t
   - inc
resources:
 bugtracker: https://github.com/atoomic/perl-TimeDate/issues
 repository: https://github.com/atoomic/perl-TimeDate
version: '2.33'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'
```

Found in path(s):
* /opt/cola/permits/1886592081_1705452066.6949606/0/libtimedate-perl-2-3300-orig-1-tar-gz/TimeDate-2.33/META.yml
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* /opt/cola/permits/1886592081_1705452066.6949606/0/libtimedate-perl-2-3300-orig-1-tar-gz/TimeDate-2.33/lib/Date/Format.pm
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```
=head1 NAME

Date::Language::Hungarian - Magyar format for Date::Format

=head1 SYNOPSIS

 my $lang = Date::Language->new('Hungarian');
 print $lang->time2str("%a %b %e %T %Y", time);

 @lt = localtime(time);
 print $lang->time2str($template, time);
 print $lang->strftime($template, @lt);

 print $lang->time2str($template, time, $zone);
 print $lang->strftime($template, @lt, $zone);

 print $lang->ctime(time);
 print $lang->asctime(@lt);

 print $lang->ctime(time, $zone);
 print $lang->asctime(@lt, $zone);

See L<Date::Format>.

=head1 AUTHOR

Paula Goddard (paula -at- paulacska -dot- com)

=head1 LICENCE

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=cut
```

Found in path(s):
* /opt/cola/permits/1886592081_1705452066.6949606/0/libtimedate-perl-2-3300-orig-1-tar-gz/TimeDate-2.33/lib/Date/Language/Hungarian.pm
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This is the perl5 TimeDate distribution. It requires perl version 5.003
or later

This distribution replaces my earlier GetDate distribution, which was
only a date parser. The date parser contained in this distribution is
far superior to the yacc based parser, and a *lot* fatser.

The parser contained here will only parse absolute dates, if you want a
date parser that can parse relative dates then take a look at the Time
modules by David Muir on CPAN.

You install the library by running these commands:

```
perl Makefile.PL
make
make test
make install
```

Please report any bugs/suggestions to <gbarr@pobox.com>

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=encoding utf8

=head1 NAME

Date::Language::Bulgarian - localization for Date::Format

=head1 DESCRIPTION

This is Bulgarian localization for Date::Format.
It is important to note that this module source code is in utf8.
All strings which it outputs are in utf8, so it is safe to use it
currently only with English. You are left alone to try and convert
the output when using different Date::Language::* in the same application.
This should be addresed in the future.

=head1 SYNOPSIS

```
  use strict;
  use warnings;
  use Date::Language;
  local $\=$/;
  my $template ='%a %b %e %T %Y (%Y-%m-%d %H:%M:%S)';
  my $time=1290883821; #or just use time();
  my @lt = localtime($time);
  my %languages = qw(English GMT German EEST Bulgarian EET);
  binmode(select,':utf8');

  foreach my $l(keys %languages){
     my $lang = Date::Language->new($l);
     my $zone = $languages{$l};
     print $/. "$l
 $zone";
     print $lang->time2str($template, $time);
     print $lang->time2str($template, $time, $zone);

     print $lang->strftime($template, \@lt);
  }

=head1 AUTHOR

Krasimir Berov (berov@cpan.org)

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=cut
```

Found in path(s):
* /opt/cola/permits/1886592081_1705452066.6949606/0/libtimedate-perl-2-3300-orig-1-tar-gz/TimeDate-2.33/lib/Date/Language/Bulgarian.pm

1.2060 libhttp-message-perl 6.36-1

1.2060.1 Available under license :

```
# HTTP-MESSAGE CONTRIBUTORS #

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make this distribution what it is, either via code contributions,
patches, bug reports, help with troubleshooting, etc. A huge
'thank you' to all of them.
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<one line to give the program's name and a brief idea of what it does.>

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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notices
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root
function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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However,
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work.
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Appendix: How to Apply These Terms to Your New Libraries

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library
`Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.2062 cpu-checker 0.7-1.3build1

1.2062.1 Available under license :

```
#!/bin/sh
# Copyright (C) 2009-2010 Canonical, Ltd.
# License: GPLv3
# Authors:
#  Kees Cook <kees@ubuntu.com>
#  Steve Beattie <steve.beattie@canonical.com>
#  Jamie Strandboge <jamie@ubuntu.com>
#
# Attempts to determine if the running x86-based CPU has NX capabilities
# (regardless of it being disabled by the BIOS).  If the CPU is NX-capable
# but the nx bit is missing from flags, exit 1 (i.e. "BIOS settings need
# changing"), otherwise exit 0 (i.e. "nothing wrong with BIOS")
#
# lacks NX:
#     not pae:
```

```
#        cpu family <= 5
#        cpu family > 6 && cpu family < 15
#        cpu family == 6, model <= 12
#     pae, cpu family == 6, model == 13  (excepting some sSpec?)
#            http://processorfinder.intel.com/List.aspx?ParentRadio=All&ProcFam=942&SearchKey=
# has NX:
#     http://processorfinder.intel.com/Default.aspx
#     pae, cpu family == 6, model >= 14
#     pae, cpu family == 15, model >= 4
#     pae, cpu family > 15
#
# variable chance of NX:
#     pae, cpu family
 == 15, model == 3  (and some ==4! arrgh)
#        many of these seem to have NX, but there have been several
#        that do not.  For now, err on the side of warning about the lack
#        of NX.
#
# Thanks to Steve and Jamie for the awk and shell overhaul!
```

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Version 3, 29 June 2007

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1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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```
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```
   714 Dec  8  2006 .
 29821 Dec  1  2006 ./aimage/aimage.cpp
  2319 Nov 18  2006 ./aimage/aimage.h
 14399 Oct 20  2006 ./aimage/aimage_os.cpp
 13961 Nov 21  2006 ./aimage/gui.cpp
   231 Oct 20  2006 ./aimage/gui.h
  8087 Nov 15  2006 ./aimage/ident.cpp
  1719 Oct 20  2006 ./aimage/ident.h
 23327 Nov 25  2006 ./aimage/imager.cpp
  3729 Nov 25  2006 ./aimage/imager.h
   301 Nov  8  2006 ./aimage/Makefile.am
 13466 Dec  8  2006 ./aimage/Makefile.in
   461 Dec  8  2006 ./AUTHORS
 26608 Nov 28  2006 ./ChangeLog
  7765 Dec  8  2006 ./config.h.in
427990 Dec  8  2006 ./configure
  5351 Dec  8  2006 ./configure.ac
  1909 Oct 19  2006 ./COPYING
 15205 Oct 20  2006 ./depcomp
   152 Oct 22  2006 ./INSTALL
  9212 Oct 20  2006 ./install-sh
  1292 Dec  8  2006 ./lib
  4831 Nov 15  2006 ./lib/aff_db.cpp
   105 Oct
19  2006 ./lib/aff_db.h
  2517 Nov 15  2006 ./lib/aff_toc.cpp
 12907 Nov 25  2006 ./lib/afflib.cpp
 17363 Nov 25  2006 ./lib/afflib.h
 11721 Nov 25  2006 ./lib/afflib_i.h
  3932 Dec  1  2006 ./lib/afflib_os.cpp
 18713 Nov 25  2006 ./lib/afflib_pages.cpp
```

```
 9462 Nov 25  2006 ./lib/afflib_stream.cpp
 5725 Nov 15  2006 ./lib/afflib_util.cpp
 1925 Nov 15  2006 ./lib/aftimer.cpp
  836 Oct 31  2006 ./lib/aftimer.h
10819 Oct 20  2006 ./lib/base64.cpp
  692 Oct 19  2006 ./lib/base64.h
 4652 Nov 15  2006 ./lib/lzma_glue.cpp
 1978 Nov  1  2006 ./lib/Makefile.am
73313 Dec  8  2006 ./lib/Makefile.in
12649 Dec  8  2006 ./lib/s3.cpp
19190 Dec  7  2006 ./lib/s3_glue.cpp
 3841 Dec  1  2006 ./lib/s3_glue.h
14470 Nov 27  2006 ./lib/vnode_afd.cpp
   98 Oct 19  2006 ./lib/vnode_afd.h
17078 Nov 21  2006 ./lib/vnode_aff.cpp
13654 Dec  6  2006 ./lib/vnode_afm.cpp
   76 Oct 19  2006
./lib/vnode_afm.h
 7305 Nov 15  2006 ./lib/vnode_evd.cpp
   54 Oct 19  2006 ./lib/vnode_evd.h
47317 Nov 15  2006 ./lib/vnode_evf.cpp
 8156 Oct 19  2006 ./lib/vnode_evf.h
 7301 Nov 15  2006 ./lib/vnode_raw.cpp
  156 Oct 19  2006 ./lib/vnode_raw.h
 8371 Nov 25  2006 ./lib/vnode_s3.cpp
   52 Oct 19  2006 ./lib/vnode_s3.h
17982 Dec  6  2006 ./lib/vnode_split_raw.cpp
   84 Oct 19  2006 ./lib/vnode_split_raw.h
  690 Nov 27  2006 ./Makefile.am
18908 Dec  8  2006 ./Makefile.in
10678 Oct 20  2006 ./missing
  333 Nov 18  2006 ./NEWS
 9977 Oct 19  2006 ./README
  578 Dec  8  2006 ./tools
 9067 Nov 28  2006 ./tools/afcat.cpp
22564 Nov 28  2006 ./tools/afcompare.cpp
19102 Nov 28  2006 ./tools/afconvert.cpp
14755 Nov 28  2006 ./tools/afcopy.cpp
 4216 Nov 28  2006 ./tools/affix.cpp
16266 Nov 28  2006 ./tools/afinfo.cpp
 7498 Nov 28  2006 ./tools/afsegment.cpp
 5044 Nov 28  2006 ./tools/afstats.cpp
 6573 Nov 28  2006 ./tools/afxml.cpp
  502 Nov 14  2006 ./tools/Makefile.am
17176 Dec  8  2006 ./tools/Makefile.in
  382 Oct 20  2006 ./tools/quads.cpp
  116 Oct 20  2006 ./tools/quads.h
  541 Nov 21  2006 ./tools/utils.cpp
```

1004 Nov 14 2006 ./tools/utils.h

1.2064 libio-html-perl 1.004-2

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1.2065 libfile-listing-perl 6.14-1

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1.2066 libencode-locale-perl 1.05-1.1

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=head1 NAME

Encode::Locale - Determine the locale encoding

=head1 SYNOPSIS

```
use Encode::Locale;
use Encode;

$string = decode(locale => $bytes);
```

```
$bytes = encode(locale => $string);

if (-t) {
    binmode(STDIN, ":encoding(console_in)");
    binmode(STDOUT, ":encoding(console_out)");
    binmode(STDERR, ":encoding(console_out)");
}

# Processing file names passed in as arguments
my $uni_filename = decode(locale => $ARGV[0]);
open(my $fh, "<", encode(locale_fs => $uni_filename))
   || die "Can't open '$uni_filename': $!";
binmode($fh, ":encoding(locale)");
...
```

=head1 DESCRIPTION

In many applications it's wise to let Perl use Unicode for the strings it processes. Most of the interfaces Perl has to the outside world are still byte based. Programs therefore need to decode byte strings that enter the program from the outside and encode them again on the way out.

The POSIX locale system is used to specify both the language conventions requested by the user and the preferred character set to consume and output. The C<Encode::Locale> module looks up the charset and encoding (called a CODESET in the locale jargon) and arranges for the L<Encode> module to know this encoding under the name "locale". It means bytes obtained from the environment can be converted to Unicode strings by calling C<< Encode::encode(locale => $bytes) >> and converted back again with C<< Encode::decode(locale => $string) >>.

Where file systems interfaces pass file names in and out of the program we also need care. The trend is for operating systems to use a fixed file encoding that don't actually depend on the locale; and this module determines the most appropriate encoding for file names. The L<Encode> module will know this encoding under the name "locale_fs". For traditional Unix systems this will be an alias to the same encoding as "locale".

For programs running in a terminal window (called a "Console" on some systems) the "locale" encoding is usually a good choice for what to expect as input and output. Some systems allows us to query the encoding set for the terminal and C<Encode::Locale> will do that if available and make these encodings known under the C<Encode> aliases "console_in" and "console_out". For systems where we can't determine the terminal encoding these will be aliased as the same encoding as "locale". The advice is to use "console_in" for input known to come from the terminal and "console_out" for output to the terminal.

In addition to arranging for various Encode aliases the following functions and variables are provided:

=over

=item decode_argv( )

=item decode_argv(Encode::FB_CROAK)

This will decode the command line arguments to perl (the C<@ARGV> array) in-place.

The function will by default replace characters that can't be decoded by "\x{FFFD}", the Unicode replacement character.

Any argument provided is passed as CHECK to underlying Encode::decode() call.
Pass the value C<Encode::FB_CROAK> to have the decoding croak if not all the command line arguments can be decoded. See L<Encode/"Handling Malformed Data">
for details on other options for CHECK.

=item env($uni_key)

=item env($uni_key => $uni_value)

Interface to get/set environment variables. Returns the current value as a Unicode string. The $uni_key and $uni_value arguments are expected to be Unicode strings as well. Passing C<undef> as $uni_value deletes the environment variable named $uni_key.

The returned value will have the characters that can't be decoded replaced by "\x{FFFD}", the Unicode replacement character.

There is no interface to request alternative CHECK behavior as for decode_argv(). If you need that you need to call encode/decode yourself.
For example:

```
my $key = Encode::encode(locale => $uni_key, Encode::FB_CROAK);
my $uni_value = Encode::decode(locale => $ENV{$key}, Encode::FB_CROAK);
```

=item reinit( )

=item reinit($encoding)

Reinitialize the encodings from the locale. You want to call this function if you changed anything in the environment that might influence the locale.

This function will croak if the determined encoding isn't recognized by
the Encode module.

With argument force $ENCODING_... variables to set to the given value.

=item $ENCODING_LOCALE

The encoding name determined to be suitable for the current locale.
L<Encode> know this encoding as "locale".

=item $ENCODING_LOCALE_FS

The encoding name determined to be suitable for file system interfaces
involving file names.
L<Encode> know this encoding as "locale_fs".

=item $ENCODING_CONSOLE_IN

=item $ENCODING_CONSOLE_OUT

The encodings to be used for reading and writing output to the a console.
L<Encode> know these encodings as "console_in" and "console_out".

=back

=head1 NOTES

This table summarizes the mapping of the encodings set up
by the C<Encode::Locale> module:

```
 Encode      |         |              |
 Alias       | Windows |
 Mac OS X     | POSIX
 ------------+---------+--------------+------------
 locale      | ANSI    | nl_langinfo  | nl_langinfo
 locale_fs   | ANSI    | UTF-8        | nl_langinfo
 console_in  | OEM     | nl_langinfo  | nl_langinfo
 console_out | OEM     | nl_langinfo  | nl_langinfo
```

=head2 Windows

Windows has basically 2 sets of APIs. A wide API (based on passing UTF-16
strings) and a byte based API based a character set called ANSI. The
regular Perl interfaces to the OS currently only uses the ANSI APIs.
Unfortunately ANSI is not a single character set.

The encoding that corresponds to ANSI varies between different editions of
Windows. For many western editions of Windows ANSI corresponds to CP-1252

which is a character set similar to ISO-8859-1. Conceptually the ANSI
character set is a similar concept to the POSIX locale CODESET so this module
figures out what the ANSI code page is and make this available as
$ENCODING_LOCALE and the "locale" Encoding alias.

Windows systems
 also operate with another byte based character set.
It's called the OEM code page. This is the encoding that the Console
takes as input and output. It's common for the OEM code page to
differ from the ANSI code page.

=head2 Mac OS X

On Mac OS X the file system encoding is always UTF-8 while the locale
can otherwise be set up as normal for POSIX systems.

File names on Mac OS X will at the OS-level be converted to
NFD-form. A file created by passing a NFC-filename will come
in NFD-form from readdir(). See L<Unicode::Normalize> for details
of NFD/NFC.

Actually, Apple does not follow the Unicode NFD standard since not all
character ranges are decomposed. The claim is that this avoids problems with
round trip conversions from old Mac text encodings. See L<Encode::UTF8Mac> for
details.

=head2 POSIX (Linux and other Unixes)

File systems might vary in what encoding is to be used for
filenames. Since this module has no way to actually figure out
what the is correct it goes with the
 best guess which is to
assume filenames are encoding according to the current locale.
Users are advised to always specify UTF-8 as the locale charset.

=head1 SEE ALSO

L<I18N::Langinfo>, L<Encode>, L<Term::Encoding>

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=cut

Found in path(s):
* /opt/cola/permits/1886591988_1705452537.8032107/0/libencode-locale-perl-1-05-orig-1-tar-gz/Encode-Locale-1.05/lib/Encode/Locale.pm
No license file was found, but licenses were detected in source scan.

---
abstract: 'Determine the locale encoding'
author:
 - 'Gisle Aas <gisle@activestate.com>'
build_requires:
 ExtUtils::MakeMaker: '0'
 Test::More: '0'
configure_requires:
 ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.0401, CPAN::Meta::Converter version 2.150001'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: '1.4'
name: Encode-Locale
no_index:
 directory:
   - t
   - inc
recommends:
 I18N::Langinfo: '0'
requires:
 Encode: '2'
 Encode::Alias: '0'
 perl: '5.008'
resources:
 repository: http://github.com/gisle/encode-locale
version: '1.05'

Found in path(s):
* /opt/cola/permits/1886591988_1705452537.8032107/0/libencode-locale-perl-1-05-orig-1-tar-gz/Encode-Locale-1.05/META.yml
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Encode-Locale
==========

The purpose of this Perl module is try determine what encodings should be used
when interfacing to various external interfaces. You will need perl-5.8 or
better to use this module.

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Found in path(s):
* /opt/cola/permits/1886591988_1705452537.8032107/0/libencode-locale-perl-1-05-orig-1-tar-gz/Encode-Locale-1.05/README

1.2067 libwww-perl 6.61-1

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1.2068 liburi-perl 5.10-1

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The End

1.2069 sleuthkit 4.11.1+dfsg-1

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1.2076 systemd-hwe 249.11.5

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1.2077 pam 1.4.0-11ubuntu2.4

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```
Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the
user logs in, and set a flag in the user's homedir if possible to prevent
repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam/modules/pam_motd/pam_motd.c
===================================================================
--- pam.orig/modules/pam_motd/pam_motd.c
+++ pam/modules/pam_motd/pam_motd.c
@@ -282,6 +282,65 @@ static void try_to_display_directories_w
   _pam_drop(dirscans);
}

+int display_legal(pam_handle_t *pamh)
+{
+   int retval = PAM_IGNORE, rc;
+   char *user = NULL;
+   char *dir = NULL;
+   char *flag = NULL;
+   struct passwd *pwd = NULL;
+   struct stat s;
+   int f;
+   /* Get the user name to determine if we need to print the disclaimer */
+   rc = pam_get_item(pamh, PAM_USER, &user);
+   if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+   {
+
     PAM_MODUTIL_DEF_PRIVS(privs);
+
+      /* Get the password entry */
+      pwd = pam_modutil_getpwnam (pamh, user);
+      if (pwd != NULL)
+      {
+         if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+            pam_syslog(pamh, LOG_ERR,
+                       "Unable to change UID to %d temporarily\n",
+                       pwd->pw_uid);
```

```
+            retval = PAM_SESSION_ERR;
+            goto finished;
+        }
+
+        if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+            goto finished;
+        if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+            goto finished;
+
+        if (stat(flag, &s) != 0)
+        {
+            int fd = open("/etc/legal", O_RDONLY, 0);
+            if (fd >= 0) {
+                try_to_display_fd(pamh, fd);
+                close(fd);
+            }
+            mkdir(dir, 0700);
+            f = open(flag,
 O_WRONLY|O_CREAT|O_EXCL,
+                     S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+            if (f>=0) close(f);
+        }
+
+finished:
+        if (pam_modutil_regain_priv(pamh, &privs)) {
+            pam_syslog(pamh, LOG_ERR,
+                       "Unable to change UID back to %d\n", privs.old_uid);
+            retval = PAM_SESSION_ERR;
+        }
+
+        _pam_drop(flag);
+        _pam_drop(dir);
+      }
+  }
+  return retval;
+}
+
int pam_sm_open_session(pam_handle_t *pamh, int flags,
  int argc, const char **argv)
{
@@ -396,6 +455,9 @@ int pam_sm_open_session(pam_handle_t *pa
 try_to_display_directories_with_overrides(pamh, motd_dir_path_split,
  num_motd_dir_paths, report_missing);

+  /* Display the legal disclaimer only if necessary */
+  retval = display_legal(pamh);
+
 out:
```

```
    _pam_drop(motd_path_copy);
    _pam_drop(motd_path_split);
```

This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on
Wed, 23 Sep 1998 20:29:32 +0200.

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1.2078 github.com/grafana/pyroscope/api 0.3.0

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1.2086 libpamg 1.4.0-11ubuntu2.4

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1.2088 githubcomgoopenapispec 0.20.14

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import (
 "encoding/json"

 "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 LicenseProps
 VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}

// UnmarshalJSON
 hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
 if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
  return err
 }
```

```
 return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
 b1, err := json.Marshal(l.LicenseProps)
 if err != nil {
  return nil, err
 }
 b2, err := json.Marshal(l.VendorExtensible)
 if err != nil {
  return nil, err
 }
 return swag.ConcatJSON(b1, b2), nil
}
```

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package spec
```

```
import (
 "encoding/json"
 "testing"

 "github.com/stretchr/testify/assert"
 "github.com/stretchr/testify/require"
)

var license = License{
 LicenseProps:     LicenseProps{Name: "the name", URL: "the url"},
 VendorExtensible: VendorExtensible{Extensions: map[string]interface{}{"x-license": "custom term"}}}

const licenseJSON = `{
 "name": "the name",
 "url": "the url",
 "x-license": "custom
 term"
}`

func TestIntegrationLicense(t *testing.T) {

 // const licenseYAML = "name: the name\nurl: the url\n"

 b, err := json.MarshalIndent(license, "", "\t")
 require.NoError(t, err)
 assert.Equal(t, licenseJSON, string(b))

 actual := License{}
 err = json.Unmarshal([]byte(licenseJSON), &actual)
 require.NoError(t, err)
 assert.EqualValues(t, license, actual)
}
```

1.2089 githubcomgoopenapijsonreference 0.20.4

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1.2090 prometheus-common 0.46.0

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1.2097 github.com/containerd/cgroups/v3 3.0.3

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* /opt/cola/permits/1890517445_1713419274.7050972/0/cgroups-tar/cgroups.txt

1.2098 prometheus-client-model 0.5.0

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Found in path(s):
* /opt/cola/permits/1890655221_1705858893.3563614/0/prometheus-client-0-5-0-1-tar-gz/prometheus_client-0.5.0/prometheus_client/decorator.py
No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1
Name: prometheus_client
Version: 0.5.0
Summary: Python client for the Prometheus monitoring system.
Home-page: https://github.com/prometheus/client_python
Author: Brian Brazil
Author-email: brian.brazil@robustperception.io
License: Apache Software License 2.0
Description: See https://github.com/prometheus/client_python/blob/master/README.md for documentation.
Keywords: prometheus monitoring instrumentation client
Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Information Technology
Classifier: Intended Audience :: System Administrators
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language ::
 Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: System :: Monitoring
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Found in path(s):
* /opt/cola/permits/1890655221_1705858893.3563614/0/prometheus-client-0-5-0-1-tar-gz/prometheus_client-0.5.0/PKG-INFO

No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1
Name: prometheus-client
Version: 0.5.0
Summary: Python client for the Prometheus monitoring system.
Home-page: https://github.com/prometheus/client_python
Author: Brian Brazil
Author-email: brian.brazil@robustperception.io
License: Apache Software License 2.0
Description: See https://github.com/prometheus/client_python/blob/master/README.md for documentation.
Keywords: prometheus monitoring instrumentation client
Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Information Technology
Classifier: Intended Audience :: System Administrators
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language ::
 Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
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* /opt/cola/permits/1890655221_1705858893.3563614/0/prometheus-client-0-5-0-1-tar-gz/prometheus_client-0.5.0/prometheus_client.egg-info/PKG-INFO

1.2099 x-oauth2 0.16.0

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1.2100 serialize-javascript 6.0.2

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1.2101 component-base 0.29.0

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1.2102 k8s-io-apiserver 0.29.0

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1.2103 msgp 1.1.8

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1.2104 backoff 4.2.0

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1.2105 golang-jwt 4.5.0

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1.2106 grpc-go 1.59.0

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1.2107 grpc-gateway 2.16.0

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1.2117 libsystemd 249.11-0ubuntu3.12

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1.2120 fsnotify 1.7.0

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1.2121 govalidator 0.0.0-20230301143203-a9d515a09cc2

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1.2122 logr 1.3.0

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```
Package: logr
Title: Creates Log Files
Version: 1.3.0
Authors@R: c(
  person(given = "David",
         family = "Bosak",
         role = c("aut", "cre"),
         email = "dbosak01@gmail.com"),
  person("Rikard", "Isaksson", role = "ctb"))
Description: Contains functions to help create log files.  The
  package aims to overcome the difficulty of the base R sink() command.  The
  log_print() function will print to both the console and the file log,
  without interfering in other write operations.
License: CC0
Encoding: UTF-8
URL: https://logr.r-sassy.org
BugReports: https://github.com/dbosak01/logr/issues
Depends: R (>= 3.4.0)
Suggests:
  knitr,
  rmarkdown,
  testthat,
  tidylog,
  dplyr,
  covr
Imports: withr,
         utils,
         this.path
VignetteBuilder: knitr
```

Roxygen: list(markdown = TRUE)
RoxygenNote: 7.1.2

Found in path(s):
* /opt/cola/permits/1892506801_1706095861.09647/0/logr-1-3-0-4-zip/logr-1.3.0/DESCRIPTION
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/*
 Source: https://github.com/algolia/docsearch/
 License: MIT
*/

Found in path(s):
* /opt/cola/permits/1892506801_1706095861.09647/0/logr-1-3-0-4-zip/logr-1.3.0/docs/docsearch.css
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* Bootstrap Table of Contents v0.4.1 (http://afeld.github.io/bootstrap-toc/)
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Found in path(s):
* /opt/cola/permits/1892506801_1706095861.09647/0/logr-1-3-0-4-zip/logr-1.3.0/docs/bootstrap-toc.js
* /opt/cola/permits/1892506801_1706095861.09647/0/logr-1-3-0-4-zip/logr-1.3.0/docs/bootstrap-toc.css

1.2123 blang-semver 4.0.0

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1.2124 azure-sdk-for-go 68.0.0+incompatible

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1.2125 golang-lru 2.0.7

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1.2126 zlib 1.2.5

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  version 1.2.5, April 19th, 2010

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 jloup@gzip.org          madler@alumni.caltech.edu


  The data format used by the zlib library is described by RFCs (Request for
  Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt
  (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).
 */
```

1.2127 spew 1.1.2-0.20180830191138-d8f796af33cc

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1.2128 pierrec-lz4 4.1.18

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1.2129 zlib 1.2.7

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1.2130 zlib 1.2.12

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1.2131 kubernetes-klog 2.120.1

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1.2132 klog 2.120.1

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1.2133 musl 1.2.2-4

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1.2134 logr 1.2.4

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```
Package: logr
Title: Creates Log Files
Version: 1.2.4
Authors@R:
  person(given = "David",
         family = "Bosak",
         role = c("aut", "cre"),
         email = "dbosak01@gmail.com")
Description: Contains functions to help create log files.  The
  package aims to overcome the difficulty of the base R sink() command.  The
  log_print() function will print to both the console and the file log,
  without interfering in other write operations.
License: CC0
Encoding: UTF-8
URL: https://logr.r-sassy.org
BugReports: https://github.com/dbosak01/logr/issues
Depends: R (>= 3.4.0)
Suggests: knitr,
        rmarkdown,
        testthat,
        tidylog,
        dplyr,
        utils
Imports: withr
VignetteBuilder: knitr
Roxygen: list(markdown = TRUE)
RoxygenNote: 7.1.1
```

Found in path(s):
* /opt/cola/permits/1893063483_1706126891.2118979/0/dbosak01-logr-v1-2-4-0-g8c5ac86-1-tar-gz/dbosak01-logr-8c5ac86/DESCRIPTION

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```
/*!
* Bootstrap Table of Contents v0.4.1 (http://afeld.github.io/bootstrap-toc/)
* Copyright 2015 Aidan Feldman
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```

Found in path(s):
* /opt/cola/permits/1893063483_1706126891.2118979/0/dbosak01-logr-v1-2-4-0-g8c5ac86-1-tar-gz/dbosak01-logr-8c5ac86/docs/bootstrap-toc.js
* /opt/cola/permits/1893063483_1706126891.2118979/0/dbosak01-logr-v1-2-4-0-g8c5ac86-1-tar-gz/dbosak01-logr-8c5ac86/docs/bootstrap-toc.css

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/*
 Source: https://github.com/algolia/docsearch/
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*/

Found in path(s):
* /opt/cola/permits/1893063483_1706126891.2118979/0/dbosak01-logr-v1-2-4-0-g8c5ac86-1-tar-gz/dbosak01-logr-8c5ac86/docs/docsearch.css

1.2135 github.com/zhangyunhao116/umap 0.0.0-20221211160557-cb7705fafa39

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1.2137 protobuf 1.32.0

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1.2138 aws-sdk-go-v2 1.24.1

1.2138.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil,
 err
 }
```

```
 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err !=
 nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
```

```
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack);
err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
```

```
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
```

AWS SDK for Go

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```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
```

```
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
```

```
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return
err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
```

```
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckInLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
```

```
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - Beneficiary
 //   - ProductSKU
 //   - Fingerprint
 //
   - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if
 err := addProtocolFinalizerMiddlewares(stack, options, "ListLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
     ServiceID,
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 //
 This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
```

```
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack,
 options, "DisassociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
```

```
 return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
```

```
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string
```

```
 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource
 Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string
```

```
 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil
 {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
```

```
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier
 that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
```

```
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string
```

```
 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return
 err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
```

```
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide
 to ensure the idempotency of
 // the request.
 //
 // This member is required.
```

```
ClientToken *string

// Configuration for consumption of the license. Choose a provisional
// configuration for workloads running with continuous connectivity. Choose a
// borrow configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity
*types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata
```

```
 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
  return fmt.Errorf("add
 protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
```

```
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName:
 "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {
```

```
 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return
 err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack);
 err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "GetLicense",
 }
}
```

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```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
```

```
import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
   - ProductSKU
 //   - Status
 //   - Fingerprint
 //   - IssuerName
 //   - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string
```

```
 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
 middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
```

```
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack);
err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}
```

```
func newServiceMetadataMiddleware_opListReceivedLicenses(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
 }
}
```

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```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version
 of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
```

```
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack,
options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if
```

```
 err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
```

1.2139 utils 0.0.0-20240102154912-e7106e64919e

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1.2140 go-toml 2.1.1

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1.2141 prometheus-client 1.18.0

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1.2142 google-uuid 1.6.0

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1.2143 kubernetes-apimachinery 0.27.4

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package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
```

```
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
```

```
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  SetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000
 * time.Millisecond),
  },
 }
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}
```

```
// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
```

```
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
```

```
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
```

```
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{"x-goog-api-client", gax.XGoogHeader(kv...)}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns
 nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds
```

```
= append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil
{
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
```

```
 return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx,
 hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
```

```
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for
 a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds
 = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
```

```
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return
nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }
```

```
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.RequestId != nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v",
"project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return
```

```
err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm
 := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())
```

```
 params := url.Values{}
 if req != nil && req.Filter != nil {
  params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
 }
 if req != nil && req.MaxResults != nil {
  params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
 }
 if req != nil && req.OrderBy != nil {
  params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req !=
nil && req.PageToken != nil {
  params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return
```

```
err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption)
 (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
```

```
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e
 := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
```

```
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx
 context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers
```

```
  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
```

```
 "fmt"
 "io"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get               []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
 return &LicenseCodesCallOptions{
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient
```

```
 interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient)
 Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
```

```
Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode,
 error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions
}

// NewLicenseCodesRESTClient
 creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
```

```
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{"x-goog-api-client", gax.XGoogHeader(kv...)}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return a specified license code. License codes are
 mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for
use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
```

```
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm
 := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
```

```
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners
 who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers
```

```
 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}
```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"

```
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
```

```
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
```

```
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()
```

```
 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
 }
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range
 values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
```

```
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown
 in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
```

```
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
```

```
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseCodeRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
}
resp,
err := c.TestIamPermissions(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.31.0
//  protoc        v4.23.2
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
```

```
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}
```

```
func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
```

```
  "READER":          3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
```

```
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //     tunedModels/{tuned_model}/permissions/{permission}
 //     corpora/{corpus}/permissions/{permission}
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
```

```
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
```

0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
0x19, 0x67, 0x6f,
0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
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 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
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 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []interface{}{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
```

```
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init()
 }
func file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v interface{}, i int)
interface{} {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []interface{}{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:           file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes:
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:         file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
```

1.2152 container-storage-interface-spec 1.9.0

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1.2154 google-uuid 1.4.0

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1.2155 color 1.16.0

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1.2156 icu 74.2-r0

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layout: default
title: Legalities
parent: Release & Milestone Tasks
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nav_order: 70

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for
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-*-makefile-*-
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```
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation
 rules
%.$(STATIC_O): $(srcdir)/%.c
 $(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
 $(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
 $(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
 $(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<


## Dependency rules
%.d: $(srcdir)/%.c
 @echo "generating dependency information for $<"
```

```
 @$(SHELL) -ec '$(GEN_DEPS.c) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.cc) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
 $(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
 $(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

##  Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup
```

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File: aclocal.m4 (only for ICU4C)
Section: pkg.m4 - Macros to locate and utilise pkg-config.

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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =
```

```
## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation
 rules
%.$(STATIC_O): $(srcdir)/%.c
 $(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
 $(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
 $(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
 $(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<


## Dependency rules
%.d: $(srcdir)/%.c
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.c) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.cc) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
 $(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
 $(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@
```

Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

Dependencies [i.e. map files] for the final library
BIR_DEPS=

Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

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File: aclocal.m4 (only for ICU4C)
Section: pkg.m4 - Macros to locate and utilise pkg-config.

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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao
```

```
## Compilation
 rules
%.$(STATIC_O): $(srcdir)/%.c
 $(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
 $(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
 $(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
 $(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<


## Dependency rules
%.d: $(srcdir)/%.c
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.c) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.cc) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
 $(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
 $(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

##  Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

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```
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File: aclocal.m4 (only for ICU4C)
Section: pkg.m4 - Macros to locate and utilise pkg-config.

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1.2159 metrics-httpclient 4.2.23

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.httpclient
Build-Jdk-Spec: 17
Bundle-Description: An Apache HttpClient wrapper providing Metrics ins
trumentation of connection pools, request durations and rates,
 and other useful information.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Integration for Apache HttpClient
Bundle-SymbolicName: io.dropwizard.metrics.httpclient

Bundle-Version: 4.2.23
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.httpclient;uses:="com.codahale.me
trics,org.apache.http,org.apache.http.config,org.apache.http.conn,org
.apache.http.conn.routing,org.apache.http.conn.socket,org.apache.http
.impl.client,org.apache.http.impl.conn,org.apache.http.protocol";vers
ion="4.2.23"
Implementation-Title: Metrics Integration for Apache HttpClient
Implementation-Version: 4.2.23
Import-Package:
 com.codahale.metrics;version="[4.2,5)",org.apache.http
,org.apache.http.client,org.apache.http.client.methods,org.apache.htt
p.client.utils,org.apache.http.config,org.apache.http.conn,org.apache
.http.conn.routing,org.apache.http.conn.socket,org.apache.http.conn.s
sl,org.apache.http.impl.client,org.apache.http.impl.conn,org.apache.h
ttp.pool,org.apache.http.protocol
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /opt/cola/permits/1900529750_1706903096.5894947/0/metrics-httpclient-4-2-23-jar/META-INF/MANIFEST.MF

1.2160 python-dateutil 2.8.1-6

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1.2161 netns 0.0.0-20210104183010-2eb08e3e575f

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1.2162 kubernetes-client 0.28.6

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1.2163 kubernetes-api 0.28.6

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1.2164 uuid 1.6.0

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1.2166 metrics-jmx 4.2.23

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.jmx
Build-Jdk-Spec: 17
Bundle-Description: A set of classes which allow you to report metrics
 via JMX.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Integration with JMX
Bundle-SymbolicName: io.dropwizard.metrics.jmx
Bundle-Version: 4.2.23
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.jmx;uses:="com.codahale.metrics,j
avax.management";version="4.2.23"
Implementation-Title: Metrics Integration with JMX
Implementation-Version: 4.2.23
Import-Package: org.slf4j;version="[1.6.0,2.0.0)",com.codahale.metrics
;version="[4.2,5)",javax.management
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

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* /opt/cola/permits/1903179690_1707228198.2458892/0/metrics-jmx-4-2-23-jar/META-INF/MANIFEST.MF

1.2167 pierrec-lz4 4.1.21

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1.2169 kubernetes-apiserver 0.26.2

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1.2171 fluxcd-cli-utils 0.36.0-flux.3

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1.2172 fluxcd-source-controller-api 1.2.4

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1.2173 fluxcd-pkg-runtime 0.44.1

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1.2174 fluxcd-pkg-ssa 0.36.0

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1.2175 gomega 1.31.1

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1.2187 googlecloudgo 0.112.0

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```
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
```

```
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
```

```
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
```

```
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.InsertLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
}
op, err := c.Insert(ctx, req)
if err != nil {
 // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
 // TODO: Handle error.
}
}

func ExampleLicensesClient_List() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template
only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.ListLicensesRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
 resp, err := it.Next()
 if err == iterator.Done {
  break
 }
 if err != nil {
```

```
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range
 values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown
 in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
```

```
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.32.0
//  protoc        v4.25.2
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)
```

```
// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
```

```
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}
```

```
func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
```

```
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
```

```
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
```

0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52, 0x0b, 0x67,
0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01, 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01, 0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05, 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59, 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a, 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a, 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45, 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f, 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12, 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64,
0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,

```
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []interface{}{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init()
 }
func file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
```

```
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v interface{}, i int)
interface{} {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []interface{}{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:           file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes:
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:         file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
```

```
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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```

```
// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
```

```
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 GetIamPolicy:
[]gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 Insert: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 List: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 SetIamPolicy: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 TestIamPermissions: []gax.CallOption{
  gax.WithTimeout(600000
* time.Millisecond),
 },
 }
}
```

```
// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
```

```
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
```

```
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
```

```
 httpClient:  httpClient,
 CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{"x-goog-api-client", gax.XGoogHeader(kv...)}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close();
 err != nil {
  return err
 }
```

```
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v",
 "project", url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers
```

```
 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if
err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}
```

```
hds
= append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.License{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return
err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
```

Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
```

```
  return err
 }

 buf,
err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery
 = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}
```

```
hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if
err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
```

```
  },
 }
 return op, nil
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest,
 opts ...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
  }
  if req != nil && req.MaxResults != nil {
   params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
  }
  if
 req != nil && req.OrderBy != nil {
   params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
  }
  if req != nil && req.PageToken != nil {
   params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
  }
  if req != nil && req.ReturnPartialSuccess != nil {
   params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
  }
```

```
 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err
= googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
```

```
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud
 Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
```

```
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource
 is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
```

```
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx,
 hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }
```

```
 return nil
}, opts...)
if e != nil {
 return
nil, e
}
return resp, nil
}
```

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1.2188 kubernetes-kubectl 0.28.6

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1.2189 open-telemetry-opentelemetry-collector-contrib 1.22.0

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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https://github.com/golang/protobuf

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>>> freebsd-base64-4.8
>>>
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$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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1.2205 github.com/datadog/sketches-go 1.4.4

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1.2206 datadog-sketches-go 1.4.4

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1.2207 spdx-exceptions 2.5.0

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1.2208 fluxcd-pkg-oci 0.35.0

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1.2209 fluxcd-kustomize-controller-api 1.2.2

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Go support for Protocol Buffers - Google's data interchange format

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1.2224 unzip 6.0-26ubuntu3.2

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- -

There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):
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There are no known patents on any of the code in UnZip. Unisys
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The original unzip source code has been extensively modified and
almost entirely rewritten (changes include random zipfile access
rather than sequential; replacement of unimplode() with explode();
replacement of old unshrink() with new (unrelated) unshrink(); re-
placement of output routines; addition of inflate(), wildcards,
filename-mapping, text translation, ...; etc.). As far as we can
tell, only the core code of the unreduce method remained substantially
similar to Mr. Smith's original source. As of UnZip
5.42, the complete
core code is now covered by the Info-ZIP Licence. Therefore, support
for the reduce method has been removed.
The drop of the reduce method should only affect some test archives,
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```
 * MoreFiles
 *
 * A collection of File Manager and related routines
 *
 * by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
```

```
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```
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   *
   *  Copyright 1997 Christopher Evans (cevans@poppybank.com)
   *
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"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default
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The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

1.2225 go.etcd.io/etcd/client/pkg/v3 3.5.12

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1.2226 github.com/go-ldap/ldap/v3 3.4.6

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1.2241 k8s-io-client-go 0.29.2

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1.2242 image-spec 1.1.0

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1.2243 google-uuid 1.6.0

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1.2244 zap 1.27.0

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1.2246 python-magic 0.4.24-2

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1.2247 ptyprocess 0.7.0-3

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1.2249 github.com/google/cel-go 0.17.7

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==========
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1.2251 apiserver-network-proxy 0.28.0

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*/

Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/infcover.c
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/* unzip.h -- IO for uncompress .zip files using zlib
Version 1.1, February 14h, 2010
part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

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Changes

See header of unzip64.c

*/

Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.h
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/* unzip.c -- IO for uncompress .zip files using zlib
  Version 1.1, February 14h, 2010
  part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

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also may be found at: ftp://ftp.info-zip.org/pub/infozip/license.html

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the non-echoing password parts) were originally written in Europe. The whole source package can be freely distributed, including from the USA. (Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from Roger Schlafly, described by Phil Katz in the file appnote.txt. This file (appnote.txt) is distributed with the PKZIP program (even in the version without encryption capabilities).

Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl_unzGetCurrentFileZStreamPos
2007-2008 - Even Rouault - Decoration of symbol names unz* -> cpl_unz*
2007-2008 - Even Rouault - Remove old C style function prototypes
2007-2008 - Even Rouault - Add unzip support for ZIP64

Copyright (C) 2007-2008 Even Rouault

Oct-2009 - Mathias Svensson - Removed cpl_* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).
Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G
should only read the compressed/uncompressed size from the Zip64 format if
the size from normal header was 0xFFFFFFFF

Oct-2009 - Mathias Svensson - Applied some bug fixes from paches recived from Gilles Vollant
Oct-2009 - Mathias Svensson - Applied support to unzip files with compression mathod
BZIP2 (bzip2 lib is required)
Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

Copyright (C) 1998 - 2010 Gilles Vollant, Even Rouault, Mathias Svensson

*/

Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.c
No license file was found, but licenses were detected in source scan.

/* zutil.h -- internal interface and configuration of the compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.h
No license file was found, but licenses were detected in source scan.

/* compress.c -- compress a memory buffer
* Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/compress.c
No license file was found, but licenses were detected in source scan.

/* zutil.c -- target dependent utility functions for the compression library
* Copyright (C) 1995-2017 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.c
No license file was found, but licenses were detected in source scan.

/* inffast.h -- header to use inffast.c
* Copyright (C) 1995-2003, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.h
No license file was found, but licenses were detected in source scan.

/* gun.c -- simple gunzip to give an example of the use of inflateBack()
* Copyright (C) 2003, 2005, 2008, 2010, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
  Version 1.7 12 August 2012 Mark Adler */

Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gun.c
No license file was found, but licenses were detected in source scan.

/* inftrees.c -- generate Huffman trees for efficient decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.c
No license file was found, but licenses were detected in source scan.

/* crc32.c -- compute the CRC-32 of a data stream
* Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*
* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster
* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing
* tables for updating the shift register in one step with three exclusive-ors
* instead of four steps with four exclusive-ors. This results in about a
* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.
*/

Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/crc32.c
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Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.3
No license file was found, but licenses were detected in source scan.

/* inffast.c -- fast decoding

* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.c
No license file was found, but licenses were detected in source scan.

/* inftrees.h -- header to use inftrees.c
* Copyright (C) 1995-2005, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.h
No license file was found, but licenses were detected in source scan.

/* inflate.h -- internal inflate state definition
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.h
No license file was found, but licenses were detected in source scan.

/* gzappend -- command to append to a gzip file

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version 1.2, 11 Oct 2012

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removed or altered from any source distribution.

Mark Adler madler@alumni.caltech.edu
*/

Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzappend.c
No license file was found, but licenses were detected in source scan.

/* minigzip.c -- simulate gzip using the zlib compression library
* Copyright (C) 1995-2006, 2010, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/minigzip.c
No license file was found, but licenses were detected in source scan.

/* adler32.c -- compute the Adler-32 checksum of a data stream
* Copyright (C) 1995-2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/adler32.c
No license file was found, but licenses were detected in source scan.

MiniZip - Copyright (c) 1998-2010 - by Gilles Vollant - version 1.1 64 bits from Mathias Svensson

Introduction

MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant (http://www.winimage.com/zLibDll/minizip.html)

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0.
All possible work was done for compatibility.

Background

When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64
support for unzip.c into minizip for a open source project called gdal (http://www.gdal.org/)

That was used as a starting point. And after that ZIP64 support was added to zip.c
some refactoring and code cleanup was also done.

Changed from MiniZip 1.0 to MiniZip 1.1
---

* Added ZIP64 support for unzip (by Even Rouault)
* Added ZIP64 support for zip (by Mathias Svensson
)
* Reverted some changed that Even Rouault did.
* Bunch of patches received from Gulles Vollant that he received for MiniZip from various users.
* Added unzip patch for BZIP Compression method (patch create by Daniel Borca)
* Added BZIP Compress method for zip
* Did some refactoring and code cleanup

Credits

Gilles Vollant - Original MiniZip author
Even Rouault - ZIP64 unzip Support
Daniel Borca - BZip Compression method support in unzip
Mathias Svensson - ZIP64 zip support
Mathias Svensson - BZip Compression method support in zip

Resources

ZipLayout http://result42.com/projects/ZipFileLayout
Command line tool for Windows that shows the layout and information of the headers in a zip archive.
Used when debugging and validating the creation of zip files using MiniZip64

ZIP App Note http://www.pkware.com/documents/casestudies/APPNOTE.TXT
Zip File specification

Notes.
* To be able to use BZip compression method in
 zip64.c or unzip64.c the BZIP2 lib is needed and HAVE_BZIP2 need to be defined.

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Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/MiniZip64_info.txt
No license file was found, but licenses were detected in source scan.

/* gzwrite.c -- zlib functions for writing gzip files
* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzwrite.c
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zlib_how.html
No license file was found, but licenses were detected in source scan.

ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is
thread safe. The data format used by the zlib library is described by RFCs
(Request for Comments) 1950 to 1952 in the files
http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and
rfc1952 (gzip format).

All functions of the compression library are documented in the file zlib.h
(volunteer to write man pages welcome, contact zlib@gzip.org). A usage example
of the library is given in the file test/example.c which also tests that
the library is working correctly. Another example is given in the file
test/minigzip.c. The compression library itself is composed of all source
files in the root directory.

To compile all files and run the test program, follow the instructions given at
the top of Makefile.in. In short "./configure; make test", and if that goes
well, "make install" should work

for most flavors of Unix. For Windows, use
one of the special makefiles in win32/ or contrib/vstudio/ . For VMS, use
make_vms.com.

Questions about zlib should be sent to <zlib@gzip.org>, or to Gilles Vollant
<info@winimage.com> for the Windows DLL version. The zlib home page is
http://zlib.net/ . Before reporting a problem, please check this site to
verify that you have the latest version of zlib; otherwise get the latest
version and check whether the problem still exists or not.

PLEASE read the zlib FAQ http://zlib.net/zlib_faq.html before asking for help.

Mark Nelson <markn@ieee.org> wrote an article about zlib for the Jan. 1997
issue of Dr. Dobb's Journal; a copy of the article is available at
http://marknelson.us/1997/01/01/zlib-engine/ .

The changes made in version 1.2.11 are documented in the file ChangeLog.

Unsupported third party contributions are provided in directory contrib/ .

zlib is available in Java using the java.util.zip package, documented at
http://java.sun.com/developer/technicalArticles/Programming/compression/
.

A Perl interface to zlib written by Paul Marquess <pmqs@cpan.org> is available
at CPAN (Comprehensive Perl Archive Network) sites, including
http://search.cpan.org/~pmqs/IO-Compress-Zlib/ .

A Python interface to zlib written by A.M. Kuchling <amk@amk.ca> is
available in Python 1.5 and later versions, see
http://docs.python.org/library/zlib.html .

zlib is built into tcl: http://wiki.tcl.tk/4610 .

An experimental package to read and write files in .zip format, written on top
of zlib by Gilles Vollant <info@winimage.com>, is available in the
contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL_FAQ.txt

- For 64-bit Irix, deflate.c must be compiled without any optimization. With
-O, one libpng test fails. The test works in 32 bit mode (with the -n32
compiler flag). The compiler bug has been reported to SGI.

- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under

OSF/1 2.1 it works
when compiled with cc.

- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is necessary to get gzprintf working correctly. This is done by configure.

- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with other compilers. Use "make test" to check your compiler.

- gzdopen is not supported on RISCOS or BEOS.

- For PalmOs, see http://palmzlib.sourceforge.net/

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

If you use the zlib library in a product, we would appreciate *not* receiving lengthy legal documents to sign. The sources are provided for free but without warranty of any kind. The library has been entirely written by Jean-loup

Gailly and Mark Adler; it does not include
third-party code.

If you redistribute modified sources, we would appreciate that you include in
the file ChangeLog history information documenting your changes. Please read
the FAQ for more information on the distribution of modified source versions.

Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/README
No license file was found, but licenses were detected in source scan.

/* uncompr.c -- decompress a memory buffer
* Copyright (C) 1995-2003, 2010, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/uncompr.c
No license file was found, but licenses were detected in source scan.

/* zconf.h -- configuration of the zlib compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-
1.2.11.dfsg/zconf.h.cmakein
No license file was found, but licenses were detected in source scan.

/* gzread.c -- zlib functions for reading gzip files
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzread.c
No license file was found, but licenses were detected in source scan.

/* deflate.h -- internal compression state
* Copyright (C) 1995-2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.h

No license file was found, but licenses were detected in source scan.

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
  version 1.2.11, January 15th, 2017

  Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

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  jloup@gzip.org          madler@alumni.caltech.edu


  The data format used by the zlib library is described by RFCs (Request for
  Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950
  (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/
```

Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.h
No license file was found, but licenses were detected in source scan.

```
/* deflate.c -- compress data using the deflation algorithm
* Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.c
No license file was found, but licenses were detected in source scan.

```
/*
* gzlog.c
* Copyright (C) 2004, 2008, 2012, 2016 Mark Adler, all rights reserved
```

* For conditions of distribution and use, see copyright notice in gzlog.h
* version 2.2, 14 Aug 2012
*/

Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.c
No license file was found, but licenses were detected in source scan.

/* fitblk.c: example of fitting compressed output to a specified size
  Not copyrighted -- provided to the public domain
  Version 1.1 25 November 2004 Mark Adler */

Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/fitblk.c
No license file was found, but licenses were detected in source scan.

/* gzjoin -- command to join gzip files into one gzip file

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 version 1.2, 14 Aug 2012

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 Mark Adler   madler@alumni.caltech.edu
*/

Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzjoin.c
No license file was found, but licenses were detected in source scan.

/* zran.c -- example of zlib/gzip stream indexing and random access
* Copyright (C) 2005, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
  Version 1.1 29 Sep 2012 Mark Adler */

Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zran.c
No license file was found, but licenses were detected in source scan.

Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page
http://zlib.net/ which may have more recent information.
The lastest zlib FAQ is at http://zlib.net/zlib_faq.html

1. Is zlib Y2K-compliant?

   Yes. zlib doesn't handle dates.

2. Where can I get a Windows DLL version?

   The zlib sources can be compiled without change to produce a DLL. See the
   file win32/DLL_FAQ.txt in the zlib distribution. Pointers to the
   precompiled DLL are found in the zlib web site at http://zlib.net/ .

3. Where can I get a Visual Basic interface to zlib?

   See
      * http://marknelson.us/1997/01/01/zlib-engine/
      * win32/DLL_FAQ.txt in the zlib distribution

4. compress() returns Z_BUF_ERROR.

   Make sure that before the call of compress(), the length of the compressed
   buffer is equal to the available size of the compressed buffer and not
   zero. For Visual
 Basic, check that this parameter is passed by reference
   ("as any"), not by value ("as long").

5. deflate() or inflate() returns Z_BUF_ERROR.

   Before making the call, make sure that avail_in and avail_out are not zero.
   When setting the parameter flush equal to Z_FINISH, also make sure that
   avail_out is big enough to allow processing all pending input. Note that a
   Z_BUF_ERROR is not fatal--another call to deflate() or inflate() can be

made with more input or output space. A Z_BUF_ERROR may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when strm.avail_out returns with zero. See http://zlib.net/zlib_how.html for a heavily annotated example.

6. Where's the zlib documentation (man pages, etc.)?

It's in zlib.h . Examples of zlib usage are in the files test/example.c and test/minigzip.c, with more in examples/ .

7. Why don't you use GNU autoconf or libtool or ...?

Because we would like to keep zlib as a very small and simple package. zlib is rather portable and doesn't need much configuration.

8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib. Please try to reproduce the problem with a small program and send the corresponding source to us at zlib@gzip.org . Do not send multi-megabyte data files without prior agreement.

9. Why do I get "undefined reference to gzputc"?

If "make test" produces something like

```
example.o(.text+0x154): undefined reference to `gzputc'
```

check that you don't have old files libz.* in /usr/lib, /usr/local/lib or /usr/X11R6/lib. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the contrib/delphi directory in the zlib distribution.

11. Can zlib handle .zip archives?

Not by itself, no. See the directory contrib/minizip in the zlib distribution.

12. Can zlib handle .Z files?

No, sorry. You have to spawn an uncompress or gunzip subprocess, or adapt the code of uncompress on your own.

13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

```
make distclean
./configure
make
```

14. How do I install a shared zlib library on Unix?

After the above, then:

```
make install
```

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can #include <zlib.h>, it's there. The -lz option will probably link to it. You can check the version at the top of zlib.h or with the ZLIB_VERSION symbol defined in zlib.h .

15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, jhainley@myndkryme.com.

16.
Can zlib decode Flate data in an Adobe PDF file?

Yes. See http://www.pdflib.com/ . To modify PDF forms, see http://sourceforge.net/projects/acroformtool/ .

17. Why am I getting this "register_frame_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

```
ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so:
symbol __register_frame_info: referenced symbol not found
```

The symbol __register_frame_info is not part of zlib, it is generated by the C compiler (cc or gcc). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See http://www.sunfreeware.com for Solaris versions of zlib and applications using zlib.

18. Why does gzip give an error on a file I make with compress/deflate?

The compress and deflate functions produce data in the zlib format, which is different and incompatible with the gzip format. The gz* functions in zlib on the other hand use the gzip format. Both the zlib and gzip formats use the same compressed data format internally, but have different headers and trailers around the compressed data.

19. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using deflateInit2(). You can also request that inflate decode the gzip format using inflateInit2(). Read zlib.h for more details.

21. Is zlib thread-safe?

Yes. However any library routines that zlib uses and any application-provided memory allocation routines must also be thread-safe. zlib's gz* functions use stdio library routines, and most of zlib's functions use the library memory allocation routines by default. zlib's *Init* functions allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in zlib.h.

23. Is zlib under the GNU license?

No. Please read the license in zlib.h.

24. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the ZLIB_VERSION and ZLIB_VERNUM #defines in zlib.h. In particular, the final version number needs to be changed to "f", and an identification string should be appended to ZLIB_VERSION. Version numbers

x.x.x.f are reserved for modifications to zlib by others than the zlib maintainers. For example, if the version of the base zlib you are altering is "1.2.3.4", then in zlib.h you should change ZLIB_VERNUM to 0x123f, and ZLIB_VERSION to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in deflate.c and inftrees.c.

For altered source distributions, you should also note the origin and nature of the changes in zlib.h, as well as in ChangeLog and README, along with the dates of the alterations. The origin should include at least your name (or your company's name), and an email address to contact for help or issues with the library.

Note that distributing a compiled zlib library along with zlib.h and zconf.h is also a source distribution, and so you should change ZLIB_VERSION and ZLIB_VERNUM and note the origin and nature of the changes in zlib.h as you would for a full source distribution.

25.
Will zlib work on a big-endian or little-endian architecture, and can I exchange compressed data between them?

Yes and yes.

26. Will zlib work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any data types being limited to 32-bits in length. If you have any difficulties, please provide a complete problem report to zlib@gzip.org

27. Will zlib decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than does PKZIP and zlib. However, you can look in zlib's contrib/blast directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use Z_FULL_FLUSH, carefully write all the pending data at those points, and keep an index of those locations, then you can start decompression at those points. You have to be careful to not use Z_FULL_FLUSH too often, since it can significantly degrade compression. Alternatively, you can scan a deflate stream once to generate an index, and then use that index for random access. See examples/zran.c .

29. Does zlib work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There were working ports of zlib 1.1.4 to MVS, but those links no longer work. If you know of recent, successful applications of zlib on these operating systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at to understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's contrib/puff directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information:

http://www.gzip.org/#faq11

32. Can zlib work with greater than 4 GB of data?

Yes. inflate() and deflate() will process any amount of data correctly. Each call of inflate() or deflate() is limited to input and output chunks of the maximum value that can be stored in the compiler's "unsigned int" type, but there is no limit to the number of chunks. Note however that the strm.total_in and strm_total_out counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by inflate() or deflate(). The application can easily set up its own counters updated after each call of inflate() or deflate() to count beyond 4 GB. compress() and uncompress() may be limited to 4 GB, since they operate in a single call. gzseek() and gztell() may be limited to 4 GB depending on how zlib is compiled. See the zlibCompileFlags() function in zlib.h.

The word "may" appears several times above since there is a 4 GB limit only if the compiler's "long" type is 32 bits. If the compiler's "long" type is 64 bits, then the limit is 16 exabytes.

33. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in gzprintf(). If zlib is compiled to use sprintf() or vsprintf(), then there is no protection against a buffer overflow of an 8K string space (or other value as set by gzbuffer()), other than the caller of gzprintf() assuring that the output will not exceed 8K. On the other hand, if zlib is compiled to use snprintf() or vsnprintf(), which should normally be the case, then there is no vulnerability. The ./configure script will display warnings if an insecure variation of sprintf() will be used by gzprintf(). Also the

zlibCompileFlags() function will return information on what variant of sprintf() is used by gzprintf().

If you don't have snprintf() or vsnprintf() and would like one, you can find a portable implementation here:

http://www.ijs.si/software/snprintf/

Note that you should be using the most recent version of zlib. Versions 1.1.3 and before were subject to a double-free vulnerability, and versions 1.2.1 and 1.2.2 were subject to an access exception when decompressing invalid compressed data.

34. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the java.util.zip package. If you really want a version of zlib written in the Java language, look on the zlib home page for links: http://zlib.net/ .

35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers were downright silly as well as contradicted each other. So now, we simply make sure that the code always
works.

36. Valgrind (or some similar memory access checker) says that deflate is performing a conditional jump that depends on an uninitialized value. Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate is not affected. This only started showing up recently since zlib 1.2.x uses malloc() by default for allocations, whereas earlier versions used calloc(), which zeros out the allocated memory. Even though the code was correct, versions 1.2.4 and later was changed to not stimulate these checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the comp.compression FAQ for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption,
use GnuPG, http://www.gnupg.org/ , which already includes zlib compression. For PKZIP compatible "encryption", look at http://www.info-zip.org/

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an
unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by Giles Vollant, which is found in the contrib directory of zlib. It is not part of zlib. In fact none of the stuff in contrib is part of zlib. The files in there are not supported by the zlib authors. You need to contact the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General Public License.
Since it's part of zlib, doesn't that mean that all of zlib falls under the GNU GPL?

No. The files in contrib are not part of zlib. They were contributed by other authors and are provided as a convenience to the user within the zlib distribution. Each item in contrib has its own license.

43. Is zlib subject to export controls? What is its ECCN?

zlib is not subject to export controls, and so is classified as EAR99.

44. Can you please sign these lengthy legal documents and fax them back to us
so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ
No license file was found, but licenses were detected in source scan.

```
/*
 Additional tools for Minizip
 Code: Xavier Roche '2004
 License: Same as ZLIB (www.gzip.org)
*/
```

Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.c
No license file was found, but licenses were detected in source scan.

```
/* trees.c -- output deflated data using Huffman coding
* Copyright (C) 1995-2017 Jean-loup Gailly
* detect_data_type() function provided freely by Cosmin Truta, 2006
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/trees.c
No license file was found, but licenses were detected in source scan.

```
/* gzguts.h -- zlib internal header definitions for gz* operations
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzguts.h
No license file was found, but licenses were detected in source scan.

```
/* gzclose.c -- zlib gzclose() function
* Copyright (C) 2004, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
```

```
*/

Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzclose.c
No license file was found, but licenses were detected in source scan.

/* zip.h -- IO on .zip files using zlib
  Version 1.1, February 14h, 2010
  part of the MiniZip project - ( http://www.winimage.com/zLibDll/minizip.html )

        Copyright (C) 1998-2010 Gilles Vollant (minizip) ( http://www.winimage.com/zLibDll/minizip.html )

        Modifications for Zip64 support
        Copyright (C) 2009-2010 Mathias Svensson ( http://result42.com )

        For more info read MiniZip_info.txt

        ---------------------------------------------------------------------------

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        ---------------------------------------------------------------------------

        Changes

        See header of zip.h

*/

Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-
```

1.2.11.dfsg/contrib/minizip/zip.h
No license file was found, but licenses were detected in source scan.

```
/* example.c -- usage example of the zlib compression library
* Copyright (C) 1995-2006, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/example.c
No license file was found, but licenses were detected in source scan.

```
/* gzlog.h
 Copyright (C) 2004, 2008, 2012 Mark Adler, all rights reserved
 version 2.2, 14 Aug 2012

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 distribution.

 Mark Adler    madler@alumni.caltech.edu
*/
```

Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.h
No license file was found, but licenses were detected in source scan.

```
/* zpipe.c: example of proper use of zlib's inflate() and deflate()
  Not copyrighted -- provided to the public domain
  Version 1.4  11 December 2005  Mark Adler */
```

Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-

1.2.11.dfsg/examples/zpipe.c
No license file was found, but licenses were detected in source scan.

/* gzlib.c -- zlib functions common to reading and writing gzip files
* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzlib.c
No license file was found, but licenses were detected in source scan.

/* infback.c -- inflate using a call-back interface
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infback.c
No license file was found, but licenses were detected in source scan.

/* inflate.c -- zlib decompression
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.c
No license file was found, but licenses were detected in source scan.

For conditions of distribution and use, see copyright notice in zlib.h

Found in path(s):
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/Makefile.emx
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.emx
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.dj2
* /opt/cola/permits/1914974542_1708672473.0711682/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/os2/Makefile.os2

1.2253 gojsonschema v1.2.0

1.2253.1 Available under license :

Apache License
Version 2.0, January 2004
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1.2254 gopkg.in/go-playground/validator 9.30.2

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1.2255 libxml2 2.9.13+dfsg-1ubuntu0.4

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1.2256 python-pyasn1-modules 0.2.1-1

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1.2257 prometheus-client-model 0.6.0

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1.2258 prometheus-client 1.19.0

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1.2259 jsonpatch 5.9.0

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1.2260 github.com/azure/azure-sdk-for-go/sdk/internal 1.5.2

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package fake

import (
 "context"
 "errors"
 "fmt"
 azfake "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake/server"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"

```
 "net/http"
 "net/url"
 "regexp"
)

// LicensesServer is a fake server for instances of the armhybridcompute.LicensesClient type.
type LicensesServer struct {
 // BeginCreateOrUpdate is the fake for method LicensesClient.BeginCreateOrUpdate
 // HTTP status codes to indicate success:
 http.StatusOK
 BeginCreateOrUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
armhybridcompute.License, options *armhybridcompute.LicensesClientBeginCreateOrUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse], errResp
azfake.ErrorResponder)

 // BeginDelete is the fake for method LicensesClient.BeginDelete
 // HTTP status codes to indicate success: http.StatusOK, http.StatusNoContent
 BeginDelete func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientBeginDeleteOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse], errResp azfake.ErrorResponder)

 // Get is the fake for method LicensesClient.Get
 // HTTP status codes to indicate success: http.StatusOK
 Get func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientGetOptions) (resp
azfake.Responder[armhybridcompute.LicensesClientGetResponse],
 errResp azfake.ErrorResponder)

 // NewListByResourceGroupPager is the fake for method LicensesClient.NewListByResourceGroupPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListByResourceGroupPager func(resourceGroupName string, options
*armhybridcompute.LicensesClientListByResourceGroupOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse])

 // NewListBySubscriptionPager is the fake for method LicensesClient.NewListBySubscriptionPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListBySubscriptionPager func(options *armhybridcompute.LicensesClientListBySubscriptionOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse])

 // BeginUpdate is the fake for method LicensesClient.BeginUpdate
 // HTTP status codes to indicate success: http.StatusOK
 BeginUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
 armhybridcompute.LicenseUpdate, options *armhybridcompute.LicensesClientBeginUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse], errResp azfake.ErrorResponder)

 // BeginValidateLicense is the fake for method LicensesClient.BeginValidateLicense
 // HTTP status codes to indicate success: http.StatusOK
 BeginValidateLicense func(ctx context.Context, parameters armhybridcompute.License, options
```

```
*armhybridcompute.LicensesClientBeginValidateLicenseOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse], errResp
azfake.ErrorResponder)
}

// NewLicensesServerTransport creates a new instance of LicensesServerTransport with the provided
implementation.
// The returned LicensesServerTransport instance is connected to an instance of armhybridcompute.LicensesClient
via the
// azcore.ClientOptions.Transporter field in the client's constructor parameters.
func NewLicensesServerTransport(srv *LicensesServer) *LicensesServerTransport
 {
 return &LicensesServerTransport{
  srv:                    srv,
  beginCreateOrUpdate:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]](),
  beginDelete:              newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]](),
  newListByResourceGroupPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]](),
  newListBySubscriptionPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]](),
  beginUpdate:              newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]](),
  beginValidateLicense:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]](),
 }
}

// LicensesServerTransport connects instances of armhybridcompute.LicensesClient to instances of LicensesServer.
// Don't use this type directly, use NewLicensesServerTransport
 instead.
type LicensesServerTransport struct {
 srv                    *LicensesServer
 beginCreateOrUpdate
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]]
 beginDelete              *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]]
 newListByResourceGroupPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]]
 newListBySubscriptionPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]]
 beginUpdate              *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]]
 beginValidateLicense
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]]
}

// Do implements the policy.Transporter interface for LicensesServerTransport.
func (l *LicensesServerTransport) Do(req *http.Request) (*http.Response, error) {
 rawMethod := req.Context().Value(runtime.CtxAPINameKey{})
 method,
```

```
 ok := rawMethod.(string)
 if !ok {
  return nil, nonRetriableError{errors.New("unable to dispatch request, missing value for CtxAPINameKey")}
 }

 var resp *http.Response
 var err error

 switch method {
 case "LicensesClient.BeginCreateOrUpdate":
  resp, err = l.dispatchBeginCreateOrUpdate(req)
 case "LicensesClient.BeginDelete":
  resp, err = l.dispatchBeginDelete(req)
 case "LicensesClient.Get":
  resp, err = l.dispatchGet(req)
 case "LicensesClient.NewListByResourceGroupPager":
  resp, err = l.dispatchNewListByResourceGroupPager(req)
 case "LicensesClient.NewListBySubscriptionPager":
  resp, err = l.dispatchNewListBySubscriptionPager(req)
 case "LicensesClient.BeginUpdate":
  resp, err = l.dispatchBeginUpdate(req)
 case "LicensesClient.BeginValidateLicense":
  resp, err = l.dispatchBeginValidateLicense(req)
 default:
  err = fmt.Errorf("unhandled API %s", method)
 }

 if err != nil {
  return nil, err
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginCreateOrUpdate(req
 *http.Request) (*http.Response, error) {
 if l.srv.BeginCreateOrUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginCreateOrUpdate not implemented")}
 }
 beginCreateOrUpdate := l.beginCreateOrUpdate.get(req)
 if beginCreateOrUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
```

```
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return
 nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginCreateOrUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body,
nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginCreateOrUpdate = &respr
  l.beginCreateOrUpdate.add(req, beginCreateOrUpdate)
 }

 resp, err := server.PollerResponderNext(beginCreateOrUpdate, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginCreateOrUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginCreateOrUpdate) {
  l.beginCreateOrUpdate.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginDelete(req *http.Request) (*http.Response, error) {
 if l.srv.BeginDelete
 == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginDelete not implemented")}
 }
 beginDelete := l.beginDelete.get(req)
 if beginDelete == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
```

```
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginDelete(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
  if
 respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginDelete = &respr
  l.beginDelete.add(req, beginDelete)
 }

 resp, err := server.PollerResponderNext(beginDelete, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK, http.StatusNoContent}, resp.StatusCode) {
  l.beginDelete.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK,
http.StatusNoContent", resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginDelete) {
  l.beginDelete.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchGet(req *http.Request) (*http.Response, error) {
 if l.srv.Get == nil {
  return nil, &nonRetriableError{errors.New("fake for method Get not implemented")}
 }
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
```

```
 regex
 := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 3 {
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
  return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.Get(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 respContent := server.GetResponseContent(respr)
 if !contains([]int{http.StatusOK}, respContent.HTTPStatus) {
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
respContent.HTTPStatus)}
 }
 resp, err := server.MarshalResponseAsJSON(respContent,
 server.GetResponse(respr).License, req)
 if err != nil {
  return nil, err
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListByResourceGroupPager(req *http.Request) (*http.Response,
error) {
 if l.srv.NewListByResourceGroupPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListByResourceGroupPager not implemented")}
 }
 newListByResourceGroupPager := l.newListByResourceGroupPager.get(req)
 if newListByResourceGroupPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 2 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if
```

```
 err != nil {
  return nil, err
 }
 resp := l.srv.NewListByResourceGroupPager(resourceGroupNameParam, nil)
 newListByResourceGroupPager = &resp
 l.newListByResourceGroupPager.add(req, newListByResourceGroupPager)
 server.PagerResponderInjectNextLinks(newListByResourceGroupPager, req, func(page
*armhybridcompute.LicensesClientListByResourceGroupResponse, createLink func() string) {
  page.NextLink = to.Ptr(createLink())
 })
}
resp, err := server.PagerResponderNext(newListByResourceGroupPager, req)
if err != nil {
 return nil, err
}
if !contains([]int{http.StatusOK}, resp.StatusCode) {
 l.newListByResourceGroupPager.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}
if !server.PagerResponderMore(newListByResourceGroupPager) {
 l.newListByResourceGroupPager.remove(req)
}
return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListBySubscriptionPager(req *http.Request)
(*http.Response, error) {
if l.srv.NewListBySubscriptionPager == nil {
 return nil, &nonRetriableError{errors.New("fake for method NewListBySubscriptionPager not implemented")}
}
newListBySubscriptionPager := l.newListBySubscriptionPager.get(req)
if newListBySubscriptionPager == nil {
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
 regex := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 1 {
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resp := l.srv.NewListBySubscriptionPager(nil)
 newListBySubscriptionPager = &resp
 l.newListBySubscriptionPager.add(req, newListBySubscriptionPager)
 server.PagerResponderInjectNextLinks(newListBySubscriptionPager, req, func(page
*armhybridcompute.LicensesClientListBySubscriptionResponse, createLink func() string) {
  page.NextLink = to.Ptr(createLink())
 })
}
```

```
 resp,
 err := server.PagerResponderNext(newListBySubscriptionPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListBySubscriptionPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListBySubscriptionPager) {
  l.newListBySubscriptionPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginUpdate(req *http.Request) (*http.Response, error) {
 if l.srv.BeginUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginUpdate not implemented")}
 }
 beginUpdate := l.beginUpdate.get(req)
 if beginUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex
 := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.LicenseUpdate](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body, nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginUpdate = &respr
```

```
 l.beginUpdate.add(req, beginUpdate)
 }

 resp, err := server.PollerResponderNext(beginUpdate, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK},
 resp.StatusCode) {
  l.beginUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginUpdate) {
  l.beginUpdate.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginValidateLicense(req *http.Request) (*http.Response, error) {
 if l.srv.BeginValidateLicense == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginValidateLicense not implemented")}
 }
 beginValidateLicense := l.beginValidateLicense.get(req)
 if beginValidateLicense == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/validateLicense`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 1 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body,
 err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginValidateLicense(req.Context(), body, nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginValidateLicense = &respr
  l.beginValidateLicense.add(req, beginValidateLicense)
 }

 resp, err := server.PollerResponderNext(beginValidateLicense, req)
```

```
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginValidateLicense.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginValidateLicense) {
  l.beginValidateLicense.remove(req)
 }

 return resp, nil
}
```


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SOFTWARE


```
//go:build go1.18
// +build go1.18

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// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package armhybridcompute

import (
```

```
 "context"
 "errors"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/arm"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/policy"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "net/http"
 "net/url"
 "strings"
)

// LicensesClient contains the methods for the Licenses group.
// Don't use this type directly, use NewLicensesClient() instead.
type LicensesClient struct {
 internal       *arm.Client
 subscriptionID string
}

// NewLicensesClient creates a new instance of LicensesClient with the specified values.
//   - subscriptionID - The ID of the target
 subscription.
//   - credential - used to authorize requests. Usually a credential from azidentity.
//   - options - pass nil to accept the default values.
func NewLicensesClient(subscriptionID string, credential azcore.TokenCredential, options *arm.ClientOptions)
(*LicensesClient, error) {
 cl, err := arm.NewClient(moduleName, moduleVersion, credential, options)
 if err != nil {
  return nil, err
 }
 client := &LicensesClient{
  subscriptionID: subscriptionID,
  internal:       cl,
 }
 return client, nil
}

// BeginCreateOrUpdate - The operation to create or update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - parameters - Parameters supplied to the Create license operation.
//   - options - LicensesClientBeginCreateOrUpdateOptions contains the optional parameters
 for the LicensesClient.BeginCreateOrUpdate
//     method.
func (client *LicensesClient) BeginCreateOrUpdate(ctx context.Context, resourceGroupName string, licenseName
string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions)
```

```
(*runtime.Poller[LicensesClientCreateOrUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.createOrUpdate(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// CreateOrUpdate - The operation to create or update a license.
// If the
 operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) createOrUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginCreateOrUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.createOrUpdateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// createOrUpdateCreateRequest creates
```

```
 the CreateOrUpdate request.
func (client *LicensesClient) createOrUpdateCreateRequest(ctx context.Context, resourceGroupName string,
licenseName string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*policy.Request,
error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx,
 http.MethodPut, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginDelete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientBeginDeleteOptions contains the optional parameters for the
LicensesClient.BeginDelete method.
func (client *LicensesClient) BeginDelete(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*runtime.Poller[LicensesClientDeleteResponse],
 error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.deleteOperation(ctx, resourceGroupName, licenseName, options)
  if err != nil {
```

```
  return nil, err
 }
 poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientDeleteResponse]{
  Tracer: client.internal.Tracer(),
 })
 return poller, err
} else {
 return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientDeleteResponse]{
  Tracer: client.internal.Tracer(),
 })
}
}

// Delete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) deleteOperation(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*http.Response, error) {
 var err error
 const
 operationName = "LicensesClient.BeginDelete"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.deleteCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK, http.StatusNoContent) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// deleteCreateRequest creates the Delete request.
func (client *LicensesClient) deleteCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientBeginDeleteOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
```

```
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodDelete, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// Get - Retrieves information about the view of a license.
//
 If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientGetOptions contains the optional parameters for the LicensesClient.Get method.
func (client *LicensesClient) Get(ctx context.Context, resourceGroupName string, licenseName string, options
*LicensesClientGetOptions) (LicensesClientGetResponse, error) {
 var err error
 const operationName = "LicensesClient.Get"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.getCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return LicensesClientGetResponse{}, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil
 {
  return LicensesClientGetResponse{}, err
 }
```

```
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return LicensesClientGetResponse{}, err
 }
 resp, err := client.getHandleResponse(httpResp)
 return resp, err
}

// getCreateRequest creates the Get request.
func (client *LicensesClient) getCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientGetOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
 licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// getHandleResponse handles the Get response.
func (client *LicensesClient) getHandleResponse(resp *http.Response) (LicensesClientGetResponse, error) {
 result := LicensesClientGetResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.License); err != nil {
  return LicensesClientGetResponse{}, err
 }
 return result, nil
}

// NewListByResourceGroupPager - The operation to get all licenses of a non-Azure machine
```

```
//
// Generated from
 API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - options - LicensesClientListByResourceGroupOptions contains the optional parameters for the
LicensesClient.NewListByResourceGroupPager
//     method.
func (client *LicensesClient) NewListByResourceGroupPager(resourceGroupName string, options
*LicensesClientListByResourceGroupOptions) *runtime.Pager[LicensesClientListByResourceGroupResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListByResourceGroupResponse]{
  More: func(page LicensesClientListByResourceGroupResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListByResourceGroupResponse)
(LicensesClientListByResourceGroupResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListByResourceGroupPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp,
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listByResourceGroupCreateRequest(ctx, resourceGroupName, options)
   }, nil)
   if err != nil {
    return LicensesClientListByResourceGroupResponse{}, err
   }
   return client.listByResourceGroupHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listByResourceGroupCreateRequest creates the ListByResourceGroup request.
func (client *LicensesClient) listByResourceGroupCreateRequest(ctx context.Context, resourceGroupName string,
options *LicensesClientListByResourceGroupOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es"
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
```

```
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listByResourceGroupHandleResponse handles the ListByResourceGroup response.
func (client *LicensesClient) listByResourceGroupHandleResponse(resp *http.Response)
(LicensesClientListByResourceGroupResponse, error) {
 result := LicensesClientListByResourceGroupResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListByResourceGroupResponse{}, err
 }
 return
 result, nil
}

// NewListBySubscriptionPager - The operation to get all licenses of a non-Azure machine
//
// Generated from API version 2023-06-20-preview
//   - options - LicensesClientListBySubscriptionOptions contains the optional parameters for the
LicensesClient.NewListBySubscriptionPager
//     method.
func (client *LicensesClient) NewListBySubscriptionPager(options *LicensesClientListBySubscriptionOptions)
*runtime.Pager[LicensesClientListBySubscriptionResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListBySubscriptionResponse]{
  More: func(page LicensesClientListBySubscriptionResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListBySubscriptionResponse)
(LicensesClientListBySubscriptionResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListBySubscriptionPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp,
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listBySubscriptionCreateRequest(ctx, options)
   }, nil)
   if err != nil {
```

```
    return LicensesClientListBySubscriptionResponse{}, err
   }
   return client.listBySubscriptionHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listBySubscriptionCreateRequest creates the ListBySubscription request.
func (client *LicensesClient) listBySubscriptionCreateRequest(ctx context.Context, options
*LicensesClientListBySubscriptionOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/licenses"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet,
 runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listBySubscriptionHandleResponse handles the ListBySubscription response.
func (client *LicensesClient) listBySubscriptionHandleResponse(resp *http.Response)
(LicensesClientListBySubscriptionResponse, error) {
 result := LicensesClientListBySubscriptionResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListBySubscriptionResponse{}, err
 }
 return result, nil
}

// BeginUpdate - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName
 - The name of the license.
//   - parameters - Parameters supplied to the Update license operation.
//   - options - LicensesClientBeginUpdateOptions contains the optional parameters for the
LicensesClient.BeginUpdate method.
```

```
func (client *LicensesClient) BeginUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions)
(*runtime.Poller[LicensesClientUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.update(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientUpdateResponse]{
   Tracer:
 client.internal.Tracer(),
  })
 }
}

// Update - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) update(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.updateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return
 nil, err
 }
 return httpResp, nil
}
```

```
// updateCreateRequest creates the Update request.
func (client *LicensesClient) updateCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}",
 url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodPatch, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - parameters - Parameters supplied to the license validation operation.
//   - options - LicensesClientBeginValidateLicenseOptions contains the optional parameters for the
LicensesClient.BeginValidateLicense
//     method.
func (client *LicensesClient) BeginValidateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions)
 (*runtime.Poller[LicensesClientValidateLicenseResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.validateLicense(ctx, parameters, options)
  if err != nil {
```

```
  return nil, err
 }
 poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientValidateLicenseResponse]{
  Tracer: client.internal.Tracer(),
 })
 return poller, err
} else {
 return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientValidateLicenseResponse]{
  Tracer: client.internal.Tracer(),
 })
}
}

// ValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) validateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions)
(*http.Response, error) {
var err error
const operationName = "LicensesClient.BeginValidateLicense"
ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
defer func() { endSpan(err) }()
req, err := client.validateLicenseCreateRequest(ctx, parameters, options)
if err != nil {
 return nil, err
}
httpResp, err := client.internal.Pipeline().Do(req)
if err != nil {
 return nil, err
}
if !runtime.HasStatusCode(httpResp, http.StatusOK) {
 err = runtime.NewResponseError(httpResp)
 return nil, err
}
return httpResp, nil
}

// validateLicenseCreateRequest creates the ValidateLicense request.
func (client *LicensesClient) validateLicenseCreateRequest(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions) (*policy.Request, error) {
urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/validateLicense"
if client.subscriptionID
```

```
 == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodPost, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}
```

azwebpubsub

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```
//go:build go1.18
// +build go1.18

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// Code generated by Microsoft (R) AutoRest Code Generator.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.
// DO NOT EDIT.

package armhybridcompute_test

import (
 "context"
 "log"
```

```
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/azidentity"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
)

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_ValidateLicense.json
func ExampleLicensesClient_BeginValidateLicense() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err !=
 nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginValidateLicense(ctx, armhybridcompute.License{
  Location: to.Ptr("eastus2euap"),
  Properties: &armhybridcompute.LicenseProperties{
   LicenseDetails: &armhybridcompute.LicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err !=
 nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
```

```
 //  ID: to.Ptr("/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/Licenses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](2),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //
    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_CreateOrUpdate.json
func ExampleLicensesClient_BeginCreateOrUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginCreateOrUpdate(ctx, "myResourceGroup",
 "{licenseName}", armhybridcompute.License{
  Location: to.Ptr("eastus2euap"),
  Properties: &armhybridcompute.LicenseProperties{
   LicenseDetails: &armhybridcompute.LicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
```

```
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values
 in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](2),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated
 from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_Update.json
func ExampleLicensesClient_BeginUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginUpdate(ctx, "myResourceGroup", "{licenseName}",
```

```
armhybridcompute.LicenseUpdate{
  Properties: &armhybridcompute.LicenseUpdateProperties{
   LicenseDetails: &armhybridcompute.LicenseUpdatePropertiesLicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors:
 to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/lice
nses/{licenseName}"),
 //
  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}
```

```
// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_Get.json
func ExampleLicensesClient_Get() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if
 err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 res, err := clientFactory.NewLicensesClient().Get(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //
  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
```

```
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_Delete.json
func ExampleLicensesClient_BeginDelete()
 {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginDelete(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 _, err = poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-
preview/examples/license/License_ListByResourceGroup.json
func ExampleLicensesClient_NewListByResourceGroupPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if
 err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListByResourceGroupPager("myResourceGroup", nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
   // You could use page here. We use blank identifier for just demo purposes.
   _ = v
  }
  // If the HTTP response code is 200 as defined in example definition, your page structure would look as follows.
```

```
Please pay attention that all the values in the output are fake values for just demo purposes.
  // page.LicensesListResult = armhybridcompute.LicensesListResult{
  //  Value: []*armhybridcompute.License{
  //    {
  //     Name: to.Ptr("{licenseName}"),
  //
    Type: to.Ptr("Microsoft.HybridCompute/licenses"),
  //     ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
  //     Location: to.Ptr("eastus2euap"),
  //     Properties: &armhybridcompute.LicenseProperties{
  //      LicenseDetails: &armhybridcompute.LicenseDetails{
  //       Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
  //       AssignedLicenses: to.Ptr[int32](8),
  //       Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
  //       ImmutableID: to.Ptr("<generated Guid>"),
  //       Processors: to.Ptr[int32](6),
  //       State: to.Ptr(armhybridcompute.LicenseStateActivated),
  //       Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
  //      },
  //      LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  //      TenantID: to.Ptr("{tenandId}"),
  //     },
  //  }},
  // }
 }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-
preview/examples/license/License_ListBySubscription.json
func
 ExampleLicensesClient_NewListBySubscriptionPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListBySubscriptionPager(nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
```

```
  log.Fatalf("failed to advance page: %v", err)
 }
 for _, v := range page.Value {
  // You could use page here. We use blank identifier for just demo purposes.
  _ = v
 }
 // If the HTTP response code is 200 as defined in example definition, your page structure would look as
follows. Please pay attention that all the values in the output are fake values for just demo purposes.
 // page.LicensesListResult = armhybridcompute.LicensesListResult{
 //  Value: []*armhybridcompute.License{
 //   {
 //    Name: to.Ptr("{licenseName}"),
 //    Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //    Location: to.Ptr("eastus2euap"),
 //    Properties: &armhybridcompute.LicenseProperties{
 //     LicenseDetails: &armhybridcompute.LicenseDetails{
 //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //      AssignedLicenses: to.Ptr[int32](8),
 //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //      ImmutableID: to.Ptr("<generated Guid>"),
 //      Processors: to.Ptr[int32](6),
 //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //
    },
 //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //     TenantID: to.Ptr("{tenandId}"),
 //    },
 //  }},
 // }
 }
}
```

1.2261 mongo-driver 1.14.0

1.2261.1 Available under license :

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>>> freebsd-base64-4.8
>>>
unicode-5.0

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>>> freebsd-base64-4.8

base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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1.2269 tcpdump 4.99.1-3ubuntu0.2

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```
# -*- perl -*-

$testlist = [
  # This specific test fails on OpenBSD because the .pcap file uses DLT_RAW,
  # which OpenBSD treats as DLT_LOOP. The macro is set on all three BSDs.
  {
     config_unset => 'HAVE_NET_IF_PFLOG_H',
     name => 'heap-overflow-1',
     input => 'heap-overflow-1.pcap',
     output => 'heap-overflow-1.out',
     args   => '-v'
  },
];

1;
```

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1.2270 helm-helm 3.14.2

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1.2271 k8s-io-apiserver 0.29.2

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1.2272 clientmodel 0.6.0

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1.2273 component-base 0.29.2

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1.2277 metrics-annotation 4.2.23

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.annotation
Build-Jdk-Spec: 17
Bundle-Description: A dependency-less package of just the annotations
used by other Metrics modules.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Annotations for Metrics
Bundle-SymbolicName: io.dropwizard.metrics.annotation
Bundle-Version: 4.2.23
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.annotation;version="4.2.23"
Implementation-Title: Annotations for Metrics
Implementation-Version: 4.2.23
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /opt/cola/permits/1924486280_1709645804.2350855/0/metrics-annotation-4-2-23-jar/META-INF/MANIFEST.MF

1.2278 metrics-health-checks 4.2.23

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.health
Build-Jdk-Spec: 17
Bundle-Description: An addition to Metrics which provides the ability
to run application-specific health checks, allowing you to che
ck your application's heath in production.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Health Checks

Bundle-SymbolicName: io.dropwizard.metrics.healthchecks
Bundle-Version: 4.2.23
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.health;uses:="com.codahale.metric
s";version="4.2.23",com.codahale.metrics.health.annotation;version="4
.2.23",com.codahale.metrics.health.jvm;uses:="com.codahale.metrics.he
alth,com.codahale.metrics.jvm";version="4.2.23"
Implementation-Title: Metrics Health Checks
Implementation-Version: 4.2.23
Import-Package: org.slf4j;version="[1.6.0,2.0.0)",com.codahale.metrics
 ;version="[4.2,5)",com.codahale.metrics.health,com.codahale.metrics.h
ealth.annotation,com.codahale.metrics.jvm;version="[4.2,5)";resolutio
n:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /opt/cola/permits/1924486273_1709645806.4385145/0/metrics-healthchecks-4-2-23-jar/META-INF/MANIFEST.MF

1.2279 metrics-jvm 4.2.23

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.jvm
Build-Jdk-Spec: 17
Bundle-Description: A set of classes which allow you to monitor critic
al aspects of your Java Virtual Machine using Metrics.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: JVM Integration for Metrics
Bundle-SymbolicName: io.dropwizard.metrics.jvm
Bundle-Version: 4.2.23
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.jvm;uses:="com.codahale.metrics,j
avax.management";version="4.2.23"
Implementation-Title: JVM Integration for Metrics
Implementation-Version: 4.2.23
Import-Package: org.slf4j;version="[1.6.0,2.0.0)",com.sun.management;r
esolution:=optional,com.codahale.metrics;version="[4.2,5)",javax.mana
gement
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):

* /opt/cola/permits/1924584000_1709648674.7777567/0/metrics-jvm-4-2-23-jar/META-INF/MANIFEST.MF

1.2280 metrics-graphite 4.2.23

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.graphite
Build-Jdk-Spec: 17
Bundle-Description: A reporter for Metrics which announces measurement
s to a Graphite server.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Graphite Integration for Metrics
Bundle-SymbolicName: io.dropwizard.metrics.graphite
Bundle-Version: 4.2.23
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.graphite;uses:="com.codahale.metr
ics,com.rabbitmq.client,javax.net";version="4.2.23"
Implementation-Title: Graphite Integration for Metrics
Implementation-Version: 4.2.23
Import-Package: org.slf4j;version="[1.6.0,2.0.0)",com.codahale.metrics
;version="[4.2,5)",com.rabbitmq.client;version="[5.20,6)",javax.net
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /opt/cola/permits/1924584260_1709648747.7584903/0/metrics-graphite-4-2-23-jar/META-INF/MANIFEST.MF

1.2281 golang 1.21.8

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1.2284 libtext-glob-perl 0.11-3

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=head1 NAME

Text::Glob - match globbing patterns against text

=head1 SYNOPSIS

use Text::Glob qw(match_glob glob_to_regex);

print "matched\n" if match_glob("foo.*", "foo.bar");

# prints foo.bar and foo.baz
my $regex = glob_to_regex("foo.*");
for (qw(foo.bar foo.baz foo bar)) {
  print "matched: $_\n" if /$regex/;

}

=head1 DESCRIPTION

Text::Glob implements glob(3) style matching that can be used to match against text, rather than fetching names from a filesystem. If you want to do full file globbing use the File::Glob module instead.

=head2 Routines

=over

=item match_glob($glob, @things_to_test)

Returns the list of things which match the glob from the source list.

=item glob_to_regex($glob)

Returns a compiled regex which is the equivalent of the globbing pattern.

=item glob_to_regex_string($glob)

Returns a regex string which is the equivalent of the globbing pattern.

=back

=head1
SYNTAX

The following metacharacters and rules are respected.

=over

=item C<*> - match zero or more characters

C<a*> matches C<a>, C<aa>, C<aaaa> and many many more.

=item C<?> - match exactly one character

C<a?> matches C<aa>, but not C<a>, or C<aaa>

=item Character sets/ranges

C<example.[ch]> matches C<example.c> and C<example.h>

C<demo.[a-c]> matches C<demo.a>, C<demo.b>, and C<demo.c>

=item alternation

C<example.{foo,bar,baz}> matches C<example.foo>, C<example.bar>, and
C<example.baz>

=item leading . must be explicitly matched

C<*.foo> does not match C<.bar.foo>. For this you must either specify
the leading . in the glob pattern (C<.*.foo>), or set
C<$Text::Glob::strict_leading_dot> to a false value while compiling
the regex.

=item C<*> and C<?> do not match the seperator (i.e. do not match C</>)

C<*.foo> does not match C<bar/baz.foo>. For this you must either
explicitly match the / in the glob (C<*/*.foo>), or set
C<$Text::Glob::strict_wildcard_slash> to a false
 value while compiling
the regex, or change the seperator that Text::Glob uses by setting
C<$Text::Glob::seperator> to an alternative value while compiling the
the regex.

=back

=head1 BUGS

The code uses qr// to produce compiled regexes, therefore this module
requires perl version 5.005_03 or newer.

=head1 AUTHOR

Richard Clamp <richardc@unixbeard.net>

=head1 COPYRIGHT

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=head1 SEE ALSO

L<File::Glob>, glob(3)

=cut

Found in path(s):

* /opt/cola/permits/1926532431_1709806368.284149/0/libtext-glob-perl-0-11-orig-1-tar-gz/Text-Glob-0.11/lib/Text/Glob.pm
No license file was found, but licenses were detected in source scan.

---
abstract: 'match globbing patterns against text'
author:
 - 'Richard Clamp <richardc@unixbeard.net>'
build_requires:
 ExtUtils::MakeMaker: '0'
 Test::More: '0'
configure_requires:
 ExtUtils::MakeMaker: '0'
dynamic_config: 0
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.143240'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: '1.4'
name: Text-Glob
no_index:
 directory:
   - t
   - inc
requires:
 Exporter: '0'
 constant: '0'
 perl: '5.00503'
resources: {}
version: '0.11'

Found in path(s):
* /opt/cola/permits/1926532431_1709806368.284149/0/libtext-glob-perl-0-11-orig-1-tar-gz/Text-Glob-0.11/META.yml

1.2285 libnumber-compare-perl 0.03-3

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license: unknown

Found in path(s):
* /opt/cola/permits/1926532295_1709806379.8216152/0/libnumber-compare-perl-0-03-orig-1-tar-gz/Number-Compare-0.03/META.yml
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=head1 NAME

Number::Compare - numeric comparisons

=head1 SYNOPSIS

```
Number::Compare->new(">1Ki")->test(1025); # is 1025 > 1024

my $c = Number::Compare->new(">1M");
$c->(1_200_000);                    # slightly terser invocation
```

=head1 DESCRIPTION

Number::Compare compiles a simple comparison to an anonymous subroutine, which you can call with a value to be tested again.

Now this would be very pointless, if Number::Compare didn't understand magnitudes.

The target value may use magnitudes of kilobytes (C<k>, C<ki>), megabytes (C<m>, C<mi>), or gigabytes (C<g>, C<gi>). Those suffixed with an C<i> use the appropriate 2**n version in accordance with the IEC standard: http://physics.nist.gov/cuu/Units/binary.html

=head1 METHODS

=head2 ->new($test)

Returns a new object that compares the specified test.

=head2 ->test($value)

A longhanded version of $compare->($value). Predates blessed subroutine reference
implementation.

=head2 ->parse_to_perl($test)

Returns a perl code fragment equivalent to the test.

=head1 AUTHOR

Richard Clamp <richardc@unixbeard.net>

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=head1 SEE ALSO

http://physics.nist.gov/cuu/Units/binary.html

=cut

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* /opt/cola/permits/1926532295_1709806379.8216152/0/libnumber-compare-perl-0-03-orig-1-tar-gz/Number-Compare-0.03/lib/Number/Compare.pm

1.2286 libfile-find-rule-perl 0.34-3

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=back

=head2 Extensions

Extension modules are available from CPAN in the File::Find::Rule
namespace. In order to use these extensions either use them directly:

use File::Find::Rule::ImageSize;
use File::Find::Rule::MMagic;

now your rules can use the clauses supplied by the ImageSize and
MMagic extension

or, specify that File::Find::Rule should load them for you:

use File::Find::Rule qw(:ImageSize :MMagic);

For notes on implementing your own extensions, consult
L<File::Find::Rule::Extending>

=head2 Further examples

=over

=item Finding perl scripts

my $finder = File::Find::Rule->or
 (
  File::Find::Rule->name('*.pl'),

```
  File::Find::Rule->exec(
                    sub {
                       if (open my $fh, $_) {
                          my $shebang = <$fh>;
                          close $fh;
                          return $shebang =~ /^#!.*\bperl/;
                        }
                       return 0;
                    } ),
 );
```

Based upon this message http://use.perl.org/comments.pl?sid=7052&cid=10842

=item ignore CVS directories

```
my $rule = File::Find::Rule->new;
$rule->or($rule->new
            ->directory
            ->name('CVS')
            ->prune
            ->discard,
         $rule->new);
```

Note here the use of a null rule. Null rules match anything they see,
so the effect is to match (and discard) directories called 'CVS' or to
match anything.

=back

=head1 TWO FOR THE PRICE OF ONE

File::Find::Rule also gives you a procedural interface. This is
documented in L<File::Find::Rule::Procedural>

=head1 EXPORTS

L</find>, L</rule>

=head1 TAINT MODE INTERACTION

As of 0.32 File::Find::Rule doesn't capture the current working directory in
a taint-unsafe manner. File::Find itself still does operations that the taint
system will flag as insecure but you can use the L</extras>
 feature to ask
L<File::Find> to internally C<untaint> file paths with a regex like so:

```
   my $rule = File::Find::Rule->extras({ untaint => 1 });
```

Please consult L<File::Find>'s documentation for C<untaint>,
C<untaint_pattern>, and C<untaint_skip> for more information.

=head1 BUGS

The code makes use of the C<our> keyword and as such requires perl version
5.6.0 or newer.

Currently it isn't possible to remove a clause from a rule object. If
this becomes a significant issue it will be addressed.

=head1 AUTHOR

Richard Clamp <richardc@unixbeard.net> with input gained from this
use.perl discussion: http://use.perl.org/~richardc/journal/6467

Additional proofreading and input provided by Kake, Greg McCarroll,
and Andy Lester andy@petdance.com.

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=head1 SEE ALSO

L<File::Find>,
 L<Text::Glob>, L<Number::Compare>, find(1)

If you want to know about the procedural interface, see
L<File::Find::Rule::Procedural>, and if you have an idea for a neat
extension L<File::Find::Rule::Extending>

=cut

Implementation notes:

$self->rules is an array of hashrefs. it may be a code fragment or a call
to a subroutine.

Anonymous subroutines are stored in the $self->subs hashref keyed on the
stringfied version of the coderef.

When one File::Find::Rule object is combined with another, such as in the any
and not operations, this entire hash is merged.

The _compile method walks the rules element and simply glues the code
fragments together so they can be compiled into an anyonymous File::Find
match sub for speed

[*] There's probably a win to be made with the current model in making
stat calls use C<_>. For

```
 find( file => size => "> 20M" => size => "< 400M" );
```

up to 3 stats will happen for each candidate. Adding a priming _
would be a bit blind if the first operation
 was C< name => 'foo' >,
since that can be tested by a single regex. Simply checking what the
next type of operation doesn't work since any arbitrary exec sub may
or may not stat. Potentially worse, they could stat something else
like so:

```
 # extract from the worlds stupidest make(1)
 find( exec => sub { my $f = $_; $f =~ s/\.c$/.o/ && !-e $f } );
```

Maybe the best way is to treat C<_> as invalid after calling an exec,
and doc that C<_> will only be meaningful after stat and -X tests if
they're wanted in exec blocks.

Found in path(s):
* /opt/cola/permits/1926532293_1709806388.7802908/0/libfile-find-rule-perl-0-34-orig-1-tar-gz/File-Find-Rule-0.34/lib/File/Find/Rule.pm
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---
abstract: unknown
author:
 - unknown
build_requires:
 ExtUtils::MakeMaker: 0
configure_requires:
 ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.66, CPAN::Meta::Converter version 2.133380'
license: unknown
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: 1.4
name: File-Find-Rule
no_index:
 directory:
   - t

```
   - inc
requires:
 File::Find: 0
 File::Spec: 0
 Number::Compare: 0
 Test::More: 0
 Text::Glob: 0.07
version: 0.34
```

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* /opt/cola/permits/1926532293_1709806388.7802908/0/libfile-find-rule-perl-0-34-orig-1-tar-gz/File-Find-Rule-0.34/META.yml
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=head1 NAME

File::Find::Rule::Procedural - File::Find::Rule's procedural interface

=head1 SYNOPSIS

```
 use File::Find::Rule;

 # find all .pm files, procedurally
 my @files = find(file => name => '*.pm', in => \@INC);
```

=head1 DESCRIPTION

In addition to the regular object-oriented interface,
L<File::Find::Rule> provides two subroutines for you to use.

=over

=item C<find(@clauses)>

=item C<rule(@clauses)>

C<find> and C<rule> can be used to invoke any methods available to the
OO version. C<rule> is a synonym for C<find>

=back

Passing more than one value to a clause is done with an anonymous
array:

```
my $finder = find( name => [ '*.mp3', '*.ogg' ] );
```

C<find> and C<rule> both return a File::Find::Rule instance, unless
one of the arguments is C<in>, in which case it returns a list of

things that match the rule.

```
my @files = find( name => [ '*.mp3', '*.ogg' ], in => $ENV{HOME} );
```

Please note that C<in> will
 be the last clause evaluated, and so this
code will search for mp3s regardless of size.

```
my @files = find( name => '*.mp3', in => $ENV{HOME}, size => '<2k' );
                                    ^
                                    |
            Clause processing stopped here ------/
```

It is also possible to invert a single rule by prefixing it with C<!>
like so:

```
# large files that aren't videos
my @files = find( file    =>
                  '!name' => [ '*.avi', '*.mov' ],
                  size    => '>20M',
                  in      => $ENV{HOME} );
```

=head1 AUTHOR

Richard Clamp <richardc@unixbeard.net>

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=head1 SEE ALSO

L<File::Find::Rule>

=cut

Found in path(s):
* /opt/cola/permits/1926532293_1709806388.7802908/0/libfile-find-rule-perl-0-34-orig-1-tar-gz/File-Find-Rule-0.34/lib/File/Find/Rule/Procedural.pod
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```
#!perl -w
use strict;
use File::Find::Rule;
```

```
use File::Spec::Functions qw(catdir);

# bootstrap extensions
for (@INC) {
   my $dir = catdir($_, qw( File Find Rule ) );
   next unless -d $dir;
   my @pm = find( name => '*.pm', maxdepth => 1,
                  exec => sub { (my $name = $_) =~ s/\.pm$//;
                                eval "require File::Find::Rule::$name"; },
                  in => $dir );
}

# what directories are we searching in?
my @where;
while (@ARGV) {
   local $_ = shift @ARGV;
   if (/^-/) {
       unshift @ARGV, $_;
       last;
   }
   push @where, $_;
}

# parse arguments, build a rule object
my $rule = new File::Find::Rule;
while (@ARGV) {
   my $clause = shift @ARGV;

   unless ( $clause =~ s/^-// && $rule->can( $clause ) ) {
       # not a known rule - complain about this
       die "unknown option '$clause'\n"
   }

   # it was the last switch
   unless (@ARGV) {

     $rule->$clause();
       next;
   }

   # consume the parameters
   my $param = shift @ARGV;

   if ($param =~ /^-/) {
       # it's the next switch - put it back, and add one with no params
       unshift @ARGV, $param;
       $rule->$clause();
       next;
```

```
    }

    if ($param eq '(') {
        # multiple values - just look for the closing parenthesis
        my @p;
        while (@ARGV) {
            my $val = shift @ARGV;
            last if $val eq ')';
            push @p, $val;
        }
        $rule->$clause( @p );
        next;
    }

    # a single argument
    $rule->$clause( $param );
}

# add a print rule so things happen faster
$rule->exec( sub { print "$_[2]\n"; return; } );

# profit
$rule->in( @where ? @where : '.' );
exit 0;

__END__

=head1 NAME

findrule - command line wrapper to File::Find::Rule

=head1 USAGE

 findrule [path...] [expression]

=head1 DESCRIPTION

C<findrule> mostly borrows the interface from GNU find(1) to provide a
command-line interface
 onto the File::Find::Rule heirarchy of modules.

The syntax for expressions is the rule name, preceded by a dash,
followed by an optional argument.  If the argument is an opening
parenthesis it is taken as a list of arguments, terminated by a
closing parenthesis.

Some examples:
```

find -file -name (foo bar)

files named C<foo> or C<bar>, below the current directory.

find -file -name foo -bar

files named C<foo>, that have pubs (for this is what our ficticious
C<bar> clause specifies), below the current directory.

find -file -name (-bar)

files named C<-bar>, below the current directory. In this case if
we'd have omitted the parenthesis it would have parsed as a call to
name with no arguments, followed by a call to -bar.

=head2 Supported switches

I'm very slack. Please consult the File::Find::Rule manpage for now,
and prepend - to the commands that you want.

=head2 Extra bonus switches

findrule automatically loads all of your installed File::Find::Rule::*
extension
 modules, so check the documentation to see what those would be.

=head1 AUTHOR

Richard Clamp <richardc@unixbeard.net> from a suggestion by Tatsuhiko Miyagawa

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=head1 SEE ALSO

L<File::Find::Rule>

=cut

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=head1 NAME

File::Find::Rule::Extending - the mini-guide to extending File::Find::Rule

=head1 SYNOPSIS

```
package File::Find::Rule::Random;
use strict;

# take useful things from File::Find::Rule
use base 'File::Find::Rule';

# and force our crack into the main namespace
sub File::Find::Rule::random () {
   my $self = shift()->_force_object;
   $self->exec( sub { rand > 0.5 } );
}

1;
```

=head1 DESCRIPTION

File::Find::Rule went down so well with the buying public that
everyone wanted to add extra features. With the 0.07 release this
became a possibility, using the following conventions.

=head2 Declare your package

```
package File::Find::Rule::Random;
use strict;
```

=head2 Inherit methods from File::Find::Rule

```
# take useful things from File::Find::Rule
use base 'File::Find::Rule';
```

=head3 Force your madness into the main package

```
# and force our crack into the main namespace
sub File::Find::Rule::random
 () {
   my $self = shift()->_force_object;
   $self->exec( sub { rand > 0.5 } );
}
```

Yes, we're being very cavalier here and defining things into the main
File::Find::Rule namespace. This is due to lack of imaginiation on my

part - I simply can't find a way for the functional and oo interface
to work without doing this or some kind of inheritance, and
inheritance stops you using two File::Find::Rule::Foo modules
together.

For this reason try and pick distinct names for your extensions. If
this becomes a problem then I may institute a semi-official registry
of taken names.

=head2 Taking no arguments.

Note the null prototype on random. This is a cheat for the procedural
interface to know that your sub takes no arguments, and so allows this
to happen:

find(random => in => '.');

If you hadn't declared C<random> with a null prototype it would have
consumed C<in> as a parameter to it, then got all confused as it
doesn't know about a C<'.'> rule.

=head1 AUTHOR

Richard
 Clamp <richardc@unixbeard.net>

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=head1 SEE ALSO

L<File::Find::Rule>

L<File::Find::Rule::MMagic> was the first extension module, so maybe
check that out.

=cut

Found in path(s):
* /opt/cola/permits/1926532293_1709806388.7802908/0/libfile-find-rule-perl-0-34-orig-1-tar-gz/File-Find-Rule-0.34/lib/File/Find/Rule/Extending.pod

1.2287 sysv-rc 3.06-4

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1.2291 clockwork 0.4.0

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Clockwork - a clock process to replace cron
==========

Cron is non-ideal for running scheduled application tasks, especially in an app
deployed to multiple machines. [More details.](http://adam.heroku.com/past/2010/4/13/rethinking_cron/)

Clockwork is a cron replacement. It runs as a lightweight, long-running Ruby process which sits alongside your web processes (Mongrel/Thin) and your worker processes (DJ/Resque/Minion/Stalker) to schedule recurring work at particular times or dates. For example, refreshing feeds on an hourly basis, or send reminder emails on a nightly basis, or generating invoices once a month on the 1st.

Quickstart

Create clock.rb:

```
require 'clockwork'
include Clockwork

handler do |job|
  puts "Running #{job}"
end

every(10.seconds, 'frequent.job')
every(3.minutes, 'less.frequent.job')
every(1.hour, 'hourly.job')


every(1.day, 'midnight.job', :at => '00:00')
```

Run it with the clockwork binary:

```
$ clockwork clock.rb
Starting clock for 4 events: [ frequent.job less.frequent.job hourly.job midnight.job ]
Triggering frequent.job
```

If you would not like to taint the namespace with `include Clockwork`, you can use it as the module (thanks to [hoverlover](https://github.com/hoverlover/clockwork/)).

```
require 'clockwork'

module Clockwork
  handler do |job|
    puts "Running #{job}"
  end

  every(10.seconds, 'frequent.job')
  every(3.minutes, 'less.frequent.job')
  every(1.hour, 'hourly.job')

  every(1.day, 'midnight.job', :at => '00:00')
```

```
end
```

Quickstart for Heroku

Clockwork fits well with heroku's cedar stack.

Consider to use [clockwork-init.sh](https://gist.github.com/1312172) to create
a new project for heroku.

Use with queueing

The clock process only makes sense as a place to schedule work to be done, not
to
do the work. It avoids locking by running as a single process, but this
makes it impossible to parallelize. For doing the work, you should be using a
job queueing system, such as
[Delayed Job](http://www.therailsway.com/2009/7/22/do-it-later-with-delayed-job),
[Beanstalk/Stalker](http://adam.heroku.com/past/2010/4/24/beanstalk_a_simple_and_fast_queueing_backend/),
[RabbitMQ/Minion](http://adamblog.heroku.com/past/2009/9/28/background_jobs_with_rabbitmq_and_minion/),
or
[Resque](http://github.com/blog/542-introducing-resque). This design allows a
simple clock process with no locks, but also offers near infinite horizontal
scalability.

For example, if you're using Beanstalk/Staker:

```
require 'stalker'

handler { |job| Stalker.enqueue(job) }

every(1.hour, 'feeds.refresh')
every(1.day, 'reminders.send', :at => '01:30')
```

Using a queueing system which doesn't require that your full application be
loaded is preferable, because the clock process can keep a tiny memory
footprint.
If you're using DJ or Resque, however, you can go ahead and load
your full application enviroment, and use per-event blocks to call DJ or Resque
enqueue methods. For example, with DJ/Rails:

```
require 'config/boot'
require 'config/environment'

every(1.hour, 'feeds.refresh') { Feed.send_later(:refresh) }
every(1.day, 'reminders.send', :at => '01:30') { Reminder.send_later(:send_reminders) }
```

Parameters

:at

`:at` parameter the hour and minute specifies when the event occur.

The simplest example:

```
every(1.day, 'reminders.send', :at => '01:30')
```

You can omit 0 of the hour:

```
every(1.day, 'reminders.send', :at => '1:30')
```

The wildcard for hour is supported:

```
every(1.hour, 'reminders.send', :at => '**:30')
```

You can set more than one timing:

```
every(1.hour, 'reminders.send', :at => ['12:00', '18:00'])
# send reminders at noon and evening
```

You can also specify a timezone (default is the local timezone):

```
every(1.day, 'reminders.send',
:at => '00:00', :tz => 'UTC')
# Runs the job each day at midnight, UTC.
# The value for :tz can be anything supported by [TZInfo](http://tzinfo.rubyforge.org/)
```

Configuration

Clockwork exposes a couple of configuration options you may change:

:logger

By default Clockwork logs to STDOUT. In case you prefer to make it to use our
own logger implementation you have to specify the `logger` configuration option. See example below.

:sleep_timeout

Clockwork wakes up once a second (by default) and performs its duties. If that
is the rare case you need to tweak the number of seconds it sleeps then you have
the `sleep_timeout` configuration option to set like shown below.

:tz

This is the default timezone to use for all events. When not specified this defaults to the local timezone. Specifying :tz in the the parameters for an event overrides anything set here.

Configuration example

```
  Clockwork.configure do |config|
    config[:sleep_timeout]
 = 5
    config[:logger] = Logger.new(log_file_path)
    config[:tz] = 'EST'
  end
```

Anatomy of a clock file
---

clock.rb is standard Ruby. Since we include the Clockwork module (the clockwork binary does this automatically, or you can do it explicitly), this exposes a small DSL ("handler" and "every") to define the handler for events, and then the events themselves.

The handler typically looks like this:

```
  handler { |job| enqueue_your_job(job) }
```

This block will be invoked every time an event is triggered, with the job name passed in. In most cases, you should be able to pass the job name directly through to your queueing system.

The second part of the file are the events, which roughly resembles a crontab:

```
  every(5.minutes, 'thing.do')
  every(1.hour, 'otherthing.do')
```

In the first line of this example, an event will be triggered once every five minutes, passing the job name 'thing.do' into the handler. The handler shown above would
 thus call enqueue_your_job('thing.do').

You can also pass a custom block to the handler, for job queueing systems that rely on classes rather than job names (i.e. DJ and Resque). In this case, you need not define a general event handler, and instead provide one with each event:

```
  every(5.minutes, 'thing.do') { Thing.send_later(:do) }
```

If you provide a custom handler for the block, the job name is used only for

logging.

You can also use blocks to do more complex checks:

```
  every(1.day, 'check.leap.year') do
    Stalker.enqueue('leap.year.party') if Time.now.year % 4 == 0
  end
```

In production

Only one clock process should ever be running across your whole application deployment. For example, if your app is running on three VPS machines (two app servers and one database), your app machines might have the following process topography:

* App server 1: 3 web (thin start), 3 workers (rake jobs:work), 1 clock (clockwork clock.rb)
* App server 2: 3 web (thin start),
 3 workers (rake jobs:work)

You should use Monit, God, Upstart, or Inittab to keep your clock process running the same way you keep your web and workers running.

Meta

Created by Adam Wiggins

Inspired by [rufus-scheduler](http://rufus.rubyforge.org/rufus-scheduler/) and [http://github.com/bvandenbos/resque-scheduler](resque-scehduler)

Design assistance from Peter van Hardenberg and Matthew Soldo

Patches contributed by Mark McGranaghan and Lukáš Konarovský

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http://github.com/adamwiggins/clockwork

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1.2292 btree 1.1.2

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1.2293 mnuralp-fileutils 0.5.1

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1.2294 kubernetes-client 0.26.2

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* /opt/cola/permits/1927179866_1709860771.2921531/0/kubernetes-model-flowcontrol-6-5-1-sources-jar/manifest.vm

1.2298 kubernetes-model-common 6.5.1

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*/
```

Found in path(s):
* /opt/cola/permits/1927180315_1709861236.5601385/0/kubernetes-model-common-6-5-1-sources-1-jar/io/fabric8/kubernetes/model/annotation/Plural.java
* /opt/cola/permits/1927180315_1709861236.5601385/0/kubernetes-model-common-6-5-1-sources-1-jar/io/fabric8/kubernetes/model/annotation/Generated.java
* /opt/cola/permits/1927180315_1709861236.5601385/0/kubernetes-model-common-6-5-1-sources-1-jar/io/fabric8/kubernetes/model/annotation/ShortNames.java
* /opt/cola/permits/1927180315_1709861236.5601385/0/kubernetes-model-common-6-5-1-sources-1-jar/io/fabric8/kubernetes/model/util/Helper.java
* /opt/cola/permits/1927180315_1709861236.5601385/0/kubernetes-model-common-6-5-1-sources-1-jar/io/fabric8/kubernetes/model/Scope.java
* /opt/cola/permits/1927180315_1709861236.5601385/0/kubernetes-model-common-6-5-1-sources-1-jar/io/fabric8/kubernetes/model/annotation/StatusReplicas.java
* /opt/cola/permits/1927180315_1709861236.5601385/0/kubernetes-model-common-6-5-1-sources-1-jar/io/fabric8/kubernetes/model/annotation/Singular.java
* /opt/cola/permits/1927180315_1709861236.5601385/0/kubernetes-model-common-6-5-1-sources-1-jar/io/fabric8/kubernetes/model/annotation/Kind.java
* /opt/cola/permits/1927180315_1709861236.5601385/0/kubernetes-model-common-6-5-1-sources-1-jar/io/fabric8/kubernetes/model/jackson/BeanPropertyWriterDelegate.java
* /opt/cola/permits/1927180315_1709861236.5601385/0/kubernetes-model-common-6-5-1-sources-1-jar/io/fabric8/kubernetes/model/annotation/PrinterColumn.java
* /opt/cola/permits/1927180315_1709861236.5601385/0/kubernetes-model-common-6-5-1-sources-1-jar/io/fabric8/kubernetes/model/jackson/SettableBeanPropertyDelegate.java
* /opt/cola/permits/1927180315_1709861236.5601385/0/kubernetes-model-common-6-5-1-sources-1-

jar/io/fabric8/kubernetes/model/jackson/UnmatchedFieldTypeModule.java
* /opt/cola/permits/1927180315_1709861236.5601385/0/kubernetes-model-common-6-5-1-sources-1-jar/io/fabric8/kubernetes/model/jackson/JsonUnwrappedDeserializer.java
* /opt/cola/permits/1927180315_1709861236.5601385/0/kubernetes-model-common-6-5-1-sources-1-jar/io/fabric8/kubernetes/model/jackson/UnwrappedTypeResolverBuilder.java
* /opt/cola/permits/1927180315_1709861236.5601385/0/kubernetes-model-common-6-5-1-sources-1-jar/io/fabric8/kubernetes/model/annotation/LabelSelector.java
* /opt/cola/permits/1927180315_1709861236.5601385/0/kubernetes-model-common-6-5-1-sources-1-jar/io/fabric8/kubernetes/model/annotation/Group.java
*
 /opt/cola/permits/1927180315_1709861236.5601385/0/kubernetes-model-common-6-5-1-sources-1-jar/io/fabric8/kubernetes/model/annotation/Version.java
* /opt/cola/permits/1927180315_1709861236.5601385/0/kubernetes-model-common-6-5-1-sources-1-jar/io/fabric8/kubernetes/model/annotation/SpecReplicas.java
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Found in path(s):
* /opt/cola/permits/1927180315_1709861236.5601385/0/kubernetes-model-common-6-5-1-sources-1-jar/META-INF/maven/io.fabric8/kubernetes-model-common/pom.xml

1.2299 kubernetes-httpclient-okhttp 6.5.1

1.2299.1 Available under license :

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#

io.fabric8.kubernetes.client.okhttp.OkHttpClientFactory

Found in path(s):
* /opt/cola/permits/1927180230_1709860949.4096863/0/kubernetes-httpclient-okhttp-6-5-1-2-jar/META-INF/services/io.fabric8.kubernetes.client.http.HttpClient$Factory
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1.2300 kubernetes-model-resource 6.5.1

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1.2301 kubernetes-model-node 6.5.1

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* /opt/cola/permits/1927180381_1709861023.878642/0/kubernetes-model-node-6-5-1-2-jar/META-INF/maven/io.fabric8/kubernetes-model-node/pom.xml
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Manifest-Version: 1.0
Build-Jdk-Spec: 1.8
Bundle-Description: Java client for Kubernetes and OpenShift
Bundle-DocURL: http://redhat.com
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Fabric8 :: Kubernetes Model :: Node
Bundle-SymbolicName: io.fabric8.kubernetes-model-node
Bundle-Vendor: Red Hat
Bundle-Version: 6.5.1
Created-By: Apache Maven Bundle Plugin 5.1.8
Export-Package: io.fabric8.kubernetes.api.model.node.v1;uses:="com.fas
terxml.jackson.annotation,com.fasterxml.jackson.databind,com.fasterxm
l.jackson.databind.annotation,io.fabric8.kubernetes.api.builder,io.fa
bric8.kubernetes.api.model,io.fabric8.kubernetes.model.annotation";ve
rsion="6.5.1",io.fabric8.kubernetes.api.model.node.v1alpha1;uses:="co
m.fasterxml.jackson.annotation,com.fasterxml.jackson.databind,com.fas
terxml.jackson.databind.annotation,io.fabric8.kubernetes.api.builder,
io.fabric8.kubernetes.api.model,io.fabric8.kubernetes.model.annotatio
 n";version="6.5.1",io.fabric8.kubernetes.api.model.node.v1beta1;uses:
="com.fasterxml.jackson.annotation,com.fasterxml.jackson.databind,com
.fasterxml.jackson.databind.annotation,io.fabric8.kubernetes.api.buil
der,io.fabric8.kubernetes.api.model,io.fabric8.kubernetes.model.annot
ation";version="6.5.1"
Implementation-URL: http://fabric8.io/kubernetes-model-generator/kuber
netes-model-node/

Import-Package: com.fasterxml.jackson.annotation;version="[2.14,3)",co
m.fasterxml.jackson.databind;version="[2.14,3)",com.fasterxml.jackson
.databind.annotation;version="[2.14,3)",io.fabric8.kubernetes.api.bui
lder;version="[6.5,7)",io.fabric8.kubernetes.api.model,io.fabric8.kub
ernetes.model.annotation;version="[6.5,7)"
Include-Resource: META-INF/services/io.fabric8.kubernetes.api.model.Ku
bernetesResource=target/classes/META-INF/services/io.fabric8.kubernet
es.api.model.KubernetesResource,schema/kube-schema.json=src/main/reso
urces/schema/kube-schema.json,schema/validation-schema.json=src/main/
 resources/schema/validation-schema.json,manifest.vm=src/main/resource
s/manifest.vm,/META-INF/jandex.idx=target/classes/META-INF/jandex.idx
Private-Package: schema
Provide-Capability: osgi.serviceloader;osgi.serviceloader="io.fabric8.
kubernetes.api.model.KubernetesResource"
Require-Capability: osgi.extender;filter:="(osgi.extender=osgi.service
loader.registrar)",osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Scm-Connection: scm:git:git@github.com:fabric8io/kubernetes-client.git
/kubernetes-model-generator/kubernetes-model-node
Scm-Revision: ${buildNumber}
Scm-Url: http://github.com/fabric8io/kubernetes-client/kubernetes-mode
l-generator/kubernetes-model-node/
Specification-Title: Fabric8 :: Kubernetes Model :: Node
Specification-Vendor: Red Hat
Specification-Version: 6.5
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /opt/cola/permits/1927180381_1709861023.878642/0/kubernetes-model-node-6-5-1-2-jar/META-INF/MANIFEST.MF
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1.2302 simpleclient-dropwizard 0.16.0

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* /opt/cola/permits/1927179826_1709860821.110666/0/simpleclient-dropwizard-0-16-0-sources-2-jar/META-INF/maven/io.prometheus/simpleclient_dropwizard/pom.xml

1.2303 kubernetes-model 6.5.1

1.2303.1 Available under license :

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* /opt/cola/permits/1927180559_1709860704.8672376/0/kubernetes-model-autoscaling-6-5-1-sources-jar/META-INF/maven/io.fabric8/kubernetes-model-autoscaling/pom.xml
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* /opt/cola/permits/1927180559_1709860704.8672376/0/kubernetes-model-autoscaling-6-5-1-sources-jar/manifest.vm

1.2304 x-crypto 0.21.0

1.2304.1 Available under license :

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1.2305 bboreham-go-loser 0.0.0-20230920113527-fcc2c21820a3

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1.2306 nsf-jsondiff 0.0.0-20230430225905-43f6cf3098c1

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1.2307 dpkg 1.21.1ubuntu2.3

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1.2310 kubernetes-model-gatewayapi 6.5.1

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```
Manifest-Version: 1.0
Build-Jdk-Spec: 1.8
Bundle-Description: Java client for Kubernetes and OpenShift
Bundle-DocURL: http://redhat.com
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Fabric8 :: Kubernetes Model :: Sigs :: Gateway API
Bundle-SymbolicName: io.fabric8.kubernetes-model-gatewayapi
Bundle-Vendor: Red Hat
Bundle-Version: 6.5.1
Created-By: Apache Maven Bundle Plugin 5.1.8
Export-Package: io.fabric8.kubernetes.api.model.gatewayapi.v1alpha2;us
es:="com.fasterxml.jackson.annotation,com.fasterxml.jackson.databind,
com.fasterxml.jackson.databind.annotation,io.fabric8.kubernetes.api.b
uilder,io.fabric8.kubernetes.api.model,io.fabric8.kubernetes.api.mode
l.gatewayapi.v1beta1,io.fabric8.kubernetes.model.annotation";version=
"6.5.1",io.fabric8.kubernetes.api.model.gatewayapi.v1beta1;uses:="com
.fasterxml.jackson.annotation,com.fasterxml.jackson.databind,com.fast
 erxml.jackson.databind.annotation,io.fabric8.kubernetes.api.builder,i
o.fabric8.kubernetes.api.model,io.fabric8.kubernetes.model.annotation
";version="6.5.1"
Implementation-URL: http://fabric8.io/kubernetes-model-generator/kuber
netes-model-gatewayapi/
Import-Package: com.fasterxml.jackson.annotation;version="[2.14,3)",co
m.fasterxml.jackson.databind;version="[2.14,3)",com.fasterxml.jackson
.databind.annotation;version="[2.14,3)",io.fabric8.kubernetes.api.bui
lder;version="[6.5,7)",io.fabric8.kubernetes.api.model,io.fabric8.kub
ernetes.api.model.gatewayapi.v1beta1,io.fabric8.kubernetes.model.anno
tation;version="[6.5,7)"
Include-Resource: META-INF/services/io.fabric8.kubernetes.api.model.Ku
bernetesResource=target/classes/META-INF/services/io.fabric8.kubernet
es.api.model.KubernetesResource,schema/kube-schema.json=src/main/reso
urces/schema/kube-schema.json,schema/validation-schema.json=src/main/
resources/schema/validation-schema.json,manifest.vm=src/main/resource
 s/manifest.vm,/META-INF/jandex.idx=target/classes/META-INF/jandex.idx
Private-Package: schema
Provide-Capability: osgi.serviceloader;osgi.serviceloader="io.fabric8.
kubernetes.api.model.KubernetesResource"
Require-Capability: osgi.extender;filter:="(osgi.extender=osgi.service
loader.registrar)",osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Scm-Connection: scm:git:git@github.com:fabric8io/kubernetes-client.git
/kubernetes-model-generator/kubernetes-model-gatewayapi
Scm-Revision: ${buildNumber}
Scm-Url: http://github.com/fabric8io/kubernetes-client/kubernetes-mode
l-generator/kubernetes-model-gatewayapi/
```

Specification-Title: Fabric8 :: Kubernetes Model :: Sigs :: Gateway AP
I
Specification-Vendor: Red Hat
Specification-Version: 6.5
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /opt/cola/permits/1929399224_1710121843.6490972/0/kubernetes-model-gatewayapi-6-5-1-2-jar/META-INF/MANIFEST.MF
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* /opt/cola/permits/1929399224_1710121843.6490972/0/kubernetes-model-gatewayapi-6-5-1-2-jar/META-INF/maven/io.fabric8/kubernetes-model-gatewayapi/pom.xml

1.2311 kubernetes-client-api 6.5.1

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1.2312 go-jose-go-jose 3.0.3

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1.2313 stretchr-testify 1.9.0

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1.2314 term 0.18.0

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1.2315 go-jose 3.0.3

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1.2316 go-uber-org-zap 1.27.0

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1.2317 grpc-gateway 2.16.0

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1.2318 google-golang-org-grpc 1.62.1

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1.2319 githubcomgolangprotobuf 1.5.4

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1.2320 ubuntu-pro-client 8001

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1.2324 publicsuffix-go 0.30.0

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//go:build go1.10
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```
package pq

import (
 "context"
 "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
 return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
 c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
//
 on it.
type NoticeHandlerConnector struct {
 driver.Connector
 noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
 c, err := n.Connector.Connect(ctx)
```

```
 if err == nil {
  SetNoticeHandler(c, n.noticeHandler)
 }
 return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  return c.noticeHandler
 }
 return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
 setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  c.noticeHandler = handler
  return c
 }
 return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
```

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localtime.go, localtime_test.go:

Originals:
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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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1.2327 ipaddr.js 1.9.1

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1.2328 string_decoder 1.1.1

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1.2329 is-binary-path 2.1.0

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1.2330 process-nextick-args 2.0.1

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1.2332 sprintf-js 1.1.3

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1.2333 @tufjs/canonical-json 2.0.0

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1.2334 binary-extensions 2.2.0

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1.2335 x-oauth2 0.18.0

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1.2336 bash 5.1-6ubuntu1.1

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1.2337 github.com/grpc-ecosystem/go-grpc-middleware/v2 2.1.0

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"DisassociateUser": " Disassociates the user from an EC2 instance providing user-based subscriptions. ",
"ListIdentityProviders":
" Lists the identity providers for user-based subscriptions. ",
"ListInstances": " Lists the EC2 instances providing user-based subscriptions. ",
"ListProductSubscriptions": " Lists the user-based subscription products available from an identity provider. ",
"ListUserAssociations": " Lists user associations for an identity provider. ",
"RegisterIdentityProvider": " Registers an identity provider for user-based subscriptions. ",
"StartProductSubscription": " Starts a product subscription for a user with the specified identity provider. <note> Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more information, see Viewing your monthly

charges in the Amazon Web
 Services Billing User Guide. </note>",
   "StopProductSubscription": " Stops a product subscription for a user with the specified identity provider. ",
   "UpdateIdentityProviderSettings": " Updates additional product configuration settings for the registered
identity provider. "
 },
 "shapes": {
   "AccessDeniedException": {
     "base": " You don't have sufficient access to perform this action. ",
     "refs": {
     }
   },
   "ActiveDirectoryIdentityProvider": {
     "base": " Details about an Active Directory identity provider. ",
     "refs": {
       "IdentityProvider$ActiveDirectoryIdentityProvider": " An object that details an Active Directory identity
provider. "
     }
   },
   "AssociateUserRequest": {
     "base": null,
     "refs": {
     }
   },
   "AssociateUserResponse": {
     "base": null,
     "refs": {
     }
   },
   "BoxInteger": {
     "base": null,
     "refs": {
       "ListIdentityProvidersRequest$MaxResults":
 " Maximum number of results to return in a single call. ",
       "ListInstancesRequest$MaxResults": " Maximum number of results to return in a single call. ",
       "ListProductSubscriptionsRequest$MaxResults": " Maximum number of results to return in a single
call. ",
       "ListUserAssociationsRequest$MaxResults": " Maximum number of results to return in a single call. "
     }
   },
   "ConflictException": {
     "base": " The request couldn't be completed because it conflicted with the current state of the resource. ",
     "refs": {
     }
   },
   "DeregisterIdentityProviderRequest": {
     "base": null,
     "refs": {

}
},
"DeregisterIdentityProviderResponse": {
"base": null,
"refs": {
}
},
"DisassociateUserRequest": {
"base": null,
"refs": {
}
},
"DisassociateUserResponse": {
"base": null,
"refs": {
}
},
"Filter": {
"base": " A
filter name and value pair that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs. ",
"refs": {
"FilterList$member": null
}
},
"FilterList": {
"base": null,
"refs": {
"ListInstancesRequest$Filters": " An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify. ",
"ListProductSubscriptionsRequest$Filters": " An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify. ",
"ListUserAssociationsRequest$Filters": " An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify. "
}
},
"IdentityProvider": {
"base": " Details about an identity provider. ",
"refs": {
"AssociateUserRequest$IdentityProvider": " The identity provider of the user. ",
"DeregisterIdentityProviderRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
"DisassociateUserRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
"IdentityProviderSummary$IdentityProvider": " An object that specifies details for the identity provider. ",
"InstanceUserSummary$IdentityProvider": " An object that specifies details for the identity provider. ",
"ListProductSubscriptionsRequest$IdentityProvider": " An object that specifies details for the identity

provider. ",
"ListUserAssociationsRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
"ProductUserSummary$IdentityProvider": " An object that specifies details for the identity provider. ",
"RegisterIdentityProviderRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
"StartProductSubscriptionRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
"StopProductSubscriptionRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
"UpdateIdentityProviderSettingsRequest$IdentityProvider": null
}
},
"IdentityProviderSummary": {
"base": " Describes an identity provider. ",
"refs": {
"DeregisterIdentityProviderResponse$IdentityProviderSummary": " Metadata that describes the results of an identity provider operation. ",
"IdentityProviderSummaryList$member": null,
"RegisterIdentityProviderResponse$IdentityProviderSummary": " Metadata that describes the results of an identity provider operation. ",
"UpdateIdentityProviderSettingsResponse$IdentityProviderSummary": null

}
},
"IdentityProviderSummaryList": {
"base": null,
"refs": {
"ListIdentityProvidersResponse$IdentityProviderSummaries": " Metadata that describes the list identity providers operation. "
}
},
"InstanceSummary": {
"base": " Describes an EC2 instance providing user-based subscriptions. ",
"refs": {
"InstanceSummaryList$member": null
}
},
"InstanceSummaryList": {
"base": null,
"refs": {
"ListInstancesResponse$InstanceSummaries": " Metadata that describes the list instances operation. "
}
},
"InstanceUserSummary": {
"base": " Describes users of an EC2 instance providing user-based subscriptions. ",
"refs": {
"AssociateUserResponse$InstanceUserSummary": " Metadata that describes the associate user

operation. ",
"DisassociateUserResponse$InstanceUserSummary": " Metadata that describes the associate user operation. ",

"InstanceUserSummaryList$member": null
}
},
"InstanceUserSummaryList": {
"base": null,
"refs": {
"ListUserAssociationsResponse$InstanceUserSummaries": " Metadata that describes the list user association operation. "
}
},
"InternalServerException": {
"base": " An exception occurred with the service. ",
"refs": {
}
},
"ListIdentityProvidersRequest": {
"base": null,
"refs": {
}
},
"ListIdentityProvidersResponse": {
"base": null,
"refs": {
}
},
"ListInstancesRequest": {
"base": null,
"refs": {
}
},
"ListInstancesResponse": {
"base": null,
"refs": {
}
},
"ListProductSubscriptionsRequest": {
"base": null,
"refs": {
}
},
"ListProductSubscriptionsResponse": {
"base": null,
"refs": {
}

},
"ListUserAssociationsRequest": {
"base": null,
"refs": {
}
},
"ListUserAssociationsResponse": {
"base": null,
"refs": {
}
},
"ProductUserSummary": {
"base": " The summary of the user-based subscription products for a user. ",
"refs": {
"ProductUserSummaryList$member": null,
"StartProductSubscriptionResponse$ProductUserSummary": " Metadata that describes the start product subscription operation. ",
"StopProductSubscriptionResponse$ProductUserSummary": " Metadata that describes the start product subscription operation. "
}
},
"ProductUserSummaryList": {
"base": null,
"refs": {
"ListProductSubscriptionsResponse$ProductUserSummaries": " Metadata that describes the list product subscriptions operation. "
}
},
"RegisterIdentityProviderRequest": {
"base": null,
"refs": {
}
},
"RegisterIdentityProviderResponse": {
"base": null,
"refs": {
}
},
"ResourceNotFoundException":
{
"base": " The resource couldn't be found. ",
"refs": {
}
},
"SecurityGroup": {
"base": null,
"refs": {
"Settings$SecurityGroupId": " A security group ID that allows inbound TCP port 1688 communication

between resources in your VPC and the VPC endpoint for activation servers. ",
"UpdateSettings$SecurityGroupId": " A security group ID that allows inbound TCP port 1688 communication between resources in your VPC and the VPC endpoints for activation servers. "
}
},
"ServiceQuotaExceededException": {
"base": " The request failed because a service quota is exceeded. ",
"refs": {
}
},
"Settings": {
"base": " The registered identity providers product related configuration settings such as the subnets to provision VPC endpoints, and the security group ID that is associated with the VPC endpoints. The security group should permit inbound TCP port 1688 communication
from resources in the VPC. ",
"refs": {
"IdentityProviderSummary$Settings": " An object that details the registered identity providers product related configuration settings such as the subnets to provision VPC endpoints. ",
"RegisterIdentityProviderRequest$Settings": " The registered identity providers product related configuration settings such as the subnets to provision VPC endpoints. "
}
},
"SettingsSubnetsList": {
"base": null,
"refs": {
"Settings$Subnets": " The subnets defined for the registered identity provider. "
}
},
"StartProductSubscriptionRequest": {
"base": null,
"refs": {
}
},
"StartProductSubscriptionResponse": {
"base": null,
"refs": {
}
},
"StopProductSubscriptionRequest": {
"base": null,
"refs": {
}
},
"StopProductSubscriptionResponse": {
"base": null,
"refs": {
}
},

"String":
{
"base": null,
"refs": {
"AccessDeniedException$message": null,
"ActiveDirectoryIdentityProvider$DirectoryId": " The directory ID for an Active Directory identity provider. ",
"AssociateUserRequest$Domain": " The domain name of the user. ",
"AssociateUserRequest$InstanceId": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"AssociateUserRequest$Username": " The user name from the identity provider for the user. ",
"ConflictException$message": null,
"DeregisterIdentityProviderRequest$Product": " The name of the user-based subscription product. ",
"DisassociateUserRequest$Domain": " The domain name of the user. ",
"DisassociateUserRequest$InstanceId": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"DisassociateUserRequest$Username": " The user name from the identity provider for the user. ",

"Filter$Attribute": " The name of an attribute to use as a filter. ",
"Filter$Operation": " The type of search (For example, eq, geq, leq) ",
"Filter$Value": " Value of the filter. ",
"IdentityProviderSummary$FailureMessage": " The failure message associated with an identity provider. ",
"IdentityProviderSummary$Product": " The name of the user-based subscription product. ",
"IdentityProviderSummary$Status": " The status of an identity provider. ",
"InstanceSummary$InstanceId": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"InstanceSummary$LastStatusCheckDate": " The date of the last status check. ",
"InstanceSummary$Status": " The status of an EC2 instance resource. ",
"InstanceSummary$StatusMessage": " The status message for an EC2 instance. ",
"InstanceUserSummary$AssociationDate": " The date a user was associated with an EC2 instance. ",
"InstanceUserSummary$DisassociationDate": " The date a user was disassociated from an EC2 instance. ",
"InstanceUserSummary$Domain": " The domain name of the user. ",
"InstanceUserSummary$InstanceId": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"InstanceUserSummary$Status": " The status of a user associated with an EC2 instance. ",
"InstanceUserSummary$StatusMessage": " The status message for users of an EC2 instance. ",
"InstanceUserSummary$Username": " The user name from the identity provider for the user. ",
"InternalServerException$message": null,
"ListIdentityProvidersRequest$NextToken": " Token for the next set of results. ",
"ListIdentityProvidersResponse$NextToken": " Token for the next set of results. ",
"ListInstancesRequest$NextToken": " Token for the next set of results. ",
"ListInstancesResponse$NextToken": " Token for the next set of results. ",
"ListProductSubscriptionsRequest$NextToken": " Token for the next set of results. ",
"ListProductSubscriptionsRequest$Product": " The name of the user-based subscription product. ",

"ListProductSubscriptionsResponse$NextToken": " Token for the next set of results. ",
"ListUserAssociationsRequest$InstanceId": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"ListUserAssociationsRequest$NextToken": " Token for the next set of results. ",
"ListUserAssociationsResponse$NextToken": " Token for the next set of results. ",
"ProductUserSummary$Domain": " The domain name of the user. ",
"ProductUserSummary$Product": " The name of the user-based subscription product. ",
"ProductUserSummary$Status": " The status of a product for a user. ",
"ProductUserSummary$StatusMessage": " The status message for a product for a user. ",
"ProductUserSummary$SubscriptionEndDate": " The end date of a subscription. ",
"ProductUserSummary$SubscriptionStartDate": " The start date of a subscription. ",
"ProductUserSummary$Username": " The user name from the identity provider of the user. ",
"RegisterIdentityProviderRequest$Product": " The name of the user-based subscription product. ",
"ResourceNotFoundException$message": null,
"ServiceQuotaExceededException$message": null,
"StartProductSubscriptionRequest$Domain": " The domain name of the user. ",
"StartProductSubscriptionRequest$Product": " The name of the user-based subscription product. ",
"StartProductSubscriptionRequest$Username": " The user name from the identity provider of the user. ",
"StopProductSubscriptionRequest$Domain": " The domain name of the user. ",
"StopProductSubscriptionRequest$Product": " The name of the user-based subscription product. ",
"StopProductSubscriptionRequest$Username": " The user name from the identity provider for the user. ",
"StringList$member": null,
"ThrottlingException$message": null,
"UpdateIdentityProviderSettingsRequest$Product": " The name of the user-based subscription product. ",
"ValidationException$message": null
}
},
"StringList": {
"base": null,
"refs": {
"InstanceSummary$Products": " A list of provided user-based subscription products. "
}
},
"Subnet": {
"base": null,
"refs": {
"SettingsSubnetsList$member": null,
"Subnets$member": null
}
},
"Subnets": {
"base": null,
"refs": {
"UpdateSettings$AddSubnets": " The ID of one or more subnets in which License Manager will create a

VPC endpoint for products that require connectivity to activation servers. ",
"UpdateSettings$RemoveSubnets":
" The ID of one or more subnets to remove. "
}
},
"ThrottlingException": {
"base": " The request was denied because of request throttling. Retry the request. ",
"refs": {
}
},
"UpdateIdentityProviderSettingsRequest": {
"base": null,
"refs": {
}
},
"UpdateIdentityProviderSettingsResponse": {
"base": null,
"refs": {
}
},
"UpdateSettings": {
"base": " Updates the registered identity providers product related configuration settings such as the subnets to provision VPC endpoints. ",
"refs": {
"UpdateIdentityProviderSettingsRequest$UpdateSettings": " Updates the registered identity providers product related configuration settings. You can update any combination of settings in a single operation such as the: <ul> Subnets which you want to add to provision VPC endpoints.   Subnets which you want to remove the VPC endpoints
from.   Security group ID which permits traffic to the VPC endpoints. "
}
},
"ValidationException": {
"base": " A parameter is not valid. ",
"refs": {
}
}
}
}
{
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {

"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {

"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}
},
"rules": [
{
"conditions": [
{
"fn": "aws.partition",
"argv": [
{
"ref": "Region"
}
],
"assign": "PartitionResult"
}
],
"type": "tree",
"rules": [
{
"conditions": [
{
"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
]
},

```
    {
      "fn": "parseURL",

     "argv": [
        {
          "ref": "Endpoint"
        }
      ],
      "assign": "url"
    }
  ],
  "type": "tree",
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            {
              "ref": "UseFIPS"
            },
            true
          ]
        }
      ],
      "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
      "type": "error"
    },
    {
      "conditions": [],
      "type": "tree",
      "rules": [
        {
          "conditions": [
            {
              "fn": "booleanEquals",
              "argv": [
                {
                  "ref": "UseDualStack"
                },
                true
              ]
            }
          ],
          "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
          "type": "error"
        },
```

```
                {
                    "conditions": [],
                    "endpoint": {
                        "url": {
                            "ref": "Endpoint"
                        },
                        "properties": {},
                        "headers": {}
                    },
                    "type": "endpoint"
                }
            ]
        }
    ]
},
{
    "conditions": [
        {
            "fn": "booleanEquals",
            "argv": [
                {
                    "ref": "UseFIPS"
                },
                true
            ]

},
        {
            "fn": "booleanEquals",
            "argv": [
                {
                    "ref": "UseDualStack"
                },
                true
            ]
        }
    ],
    "type": "tree",
    "rules": [
        {
            "conditions": [
                {
                    "fn": "booleanEquals",
                    "argv": [
                        true,
                        {
                            "fn": "getAttr",
                            "argv": [
```

```
                    {
                        "ref": "PartitionResult"

            },
                    "supportsFIPS"
                ]
            }
        ]
    },
    {
        "fn": "booleanEquals",
        "argv": [
            true,
            {
                "fn": "getAttr",
                "argv": [
                    {
                        "ref": "PartitionResult"
                    },
                    "supportsDualStack"
                ]
            }
        ]
    }

        ],
            "type": "tree",
            "rules": [
                {
                    "conditions": [],
                    "endpoint": {
                        "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                        "properties": {},
                        "headers": {}
                    },
                    "type": "endpoint"
                }
            ]
        },
        {
            "conditions": [],
            "error": "FIPS and DualStack are enabled, but this partition does not support one or both",
            "type": "error"
        }
    ]
},
```

```
{
        "conditions": [
          {
            "fn": "booleanEquals",
            "argv": [
              {
                "ref": "UseFIPS"
              },
              true
            ]
          }
        ],
        "type": "tree",
        "rules": [
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  true,
                  {
                    "fn": "getAttr",
                    "argv": [
                      {
                        "ref": "PartitionResult"
                      },
                      "supportsFIPS"
                    ]
                  }
                ]
              }
            ],
            "type": "tree",
            "rules": [
              {
                "conditions": [],
                "endpoint": {
                  "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                  "properties": {},
                  "headers": {}
                },
                "type": "endpoint"
              }
            ]
          },
          {
```

"conditions": [],
"error": "FIPS is enabled but this partition does not support FIPS",
"type": "error"
}
]
},
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseDualStack"
},
true
]
}
],
"type": "tree",
"rules": [
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
true,

{
"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsDualStack"
]
}
]
}
],
"type": "tree",
"rules": [
{
"conditions": [],
"endpoint": {
"url": "https://license-manager-user-subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},

"headers": {}
},
"type": "endpoint"
}
]
},
{
"conditions": [],
"error": "DualStack is enabled but this partition does not support DualStack",
"type": "error"
}
]
},
{
"conditions": [],
"endpoint": {
"url": "https://license-manager-user-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
}
]
}

AWS SDK for Go

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{
"pagination": {
"ListLinuxSubscriptionInstances": {
"input_token": "NextToken",
"output_token": "NextToken",
"limit_key": "MaxResults",
"result_key": "Instances"
},
"ListLinuxSubscriptions": {
"input_token": "NextToken",
"output_token": "NextToken",
"limit_key": "MaxResults",
"result_key": "Subscriptions"
}
}
}
{
"version":"2.0",
"metadata":{

"apiVersion":"2018-05-10",
"endpointPrefix":"license-manager-linux-subscriptions",
"jsonVersion":"1.1",
"protocol":"rest-json",
"serviceFullName":"AWS License Manager Linux Subscriptions",
"serviceId":"License Manager Linux Subscriptions",
"signatureVersion":"v4",
"signingName":"license-manager-linux-subscriptions",
"uid":"license-manager-linux-subscriptions-2018-05-10"
},
"operations":{
"GetServiceSettings":{
"name":"GetServiceSettings",
"http":{
"method":"POST",
"requestUri":"/subscription/GetServiceSettings",
"responseCode":200
},
"input":{"shape":"GetServiceSettingsRequest"},
"output":{"shape":"GetServiceSettingsResponse"},
"errors":[
{"shape":"InternalServerException"},
{"shape":"ThrottlingException"},
{"shape":"ValidationException"}
],
"idempotent":true
},
"ListLinuxSubscriptionInstances":{
"name":"ListLinuxSubscriptionInstances",
"http":{
"method":"POST",
"requestUri":"/subscription/ListLinuxSubscriptionInstances",
"responseCode":200
},
"input":{"shape":"ListLinuxSubscriptionInstancesRequest"},
"output":{"shape":"ListLinuxSubscriptionInstancesResponse"},
"errors":[
{"shape":"InternalServerException"},
{"shape":"ThrottlingException"},
{"shape":"ValidationException"}
],
"idempotent":true
},
"ListLinuxSubscriptions":{
"name":"ListLinuxSubscriptions",
"http":{
"method":"POST",
"requestUri":"/subscription/ListLinuxSubscriptions",

"responseCode":200
},
"input":{"shape":"ListLinuxSubscriptionsRequest"},
"output":{"shape":"ListLinuxSubscriptionsResponse"},
"errors":[
{"shape":"InternalServerException"},
{"shape":"ThrottlingException"},
{"shape":"ValidationException"}
],
"idempotent":true

},
"UpdateServiceSettings":{
"name":"UpdateServiceSettings",
"http":{
"method":"POST",
"requestUri":"/subscription/UpdateServiceSettings",
"responseCode":200
},
"input":{"shape":"UpdateServiceSettingsRequest"},
"output":{"shape":"UpdateServiceSettingsResponse"},
"errors":[
{"shape":"InternalServerException"},
{"shape":"ThrottlingException"},
{"shape":"ValidationException"}
],
"idempotent":true
}
},
"shapes":{
"Boolean":{
"type":"boolean",
"box":true
},
"BoxInteger":{
"type":"integer",
"box":true
},
"BoxLong":{
"type":"long",
"box":true
},
"Filter":{
"type":"structure",
"members":{
"Name":{"shape":"String"},
"Operator":{"shape":"Operator"},
"Values":{"shape":"StringList"}

```
    }
  },
  "FilterList":{
    "type":"list",
    "member":{"shape":"Filter"}
  },
  "GetServiceSettingsRequest":{
     "type":"structure",
    "members":{
    }
  },
  "GetServiceSettingsResponse":{
    "type":"structure",
    "members":{
      "HomeRegions":{"shape":"StringList"},
      "LinuxSubscriptionsDiscovery":{"shape":"LinuxSubscriptionsDiscovery"},
      "LinuxSubscriptionsDiscoverySettings":{"shape":"LinuxSubscriptionsDiscoverySettings"},
      "Status":{"shape":"Status"},
      "StatusMessage":{"shape":"StringMap"}
    }
  },
  "Instance":{
    "type":"structure",
    "members":{
      "AccountID":{"shape":"String"},
      "AmiId":{"shape":"String"},
      "InstanceID":{"shape":"String"},
      "InstanceType":{"shape":"String"},
      "LastUpdatedTime":{"shape":"String"},
      "ProductCode":{"shape":"ProductCodeList"},
      "Region":{"shape":"String"},
      "Status":{"shape":"String"},
      "SubscriptionName":{"shape":"String"},
      "UsageOperation":{"shape":"String"}
    }
  },
  "InstanceList":{

"type":"list",
    "member":{"shape":"Instance"}
  },
  "InternalServerException":{
    "type":"structure",
    "members":{
      "message":{"shape":"String"}
    },
    "exception":true,
    "fault":true
```

},
"LinuxSubscriptionsDiscovery":{
  "type":"string",
  "enum":[
    "Enabled",
    "Disabled"
  ]
},
"LinuxSubscriptionsDiscoverySettings":{
  "type":"structure",
  "required":[
    "OrganizationIntegration",
    "SourceRegions"
  ],
  "members":{
    "OrganizationIntegration":{"shape":"OrganizationIntegration"},
    "SourceRegions":{"shape":"StringList"}
  }
},
"ListLinuxSubscriptionInstancesRequest":{
  "type":"structure",
  "members":{
    "Filters":{"shape":"FilterList"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"ListLinuxSubscriptionInstancesRequestNextTokenString"}
  }
},
"ListLinuxSubscriptionInstancesRequestNextTokenString":{
   "type":"string",
  "max":16384,
  "min":1
},
"ListLinuxSubscriptionInstancesResponse":{
  "type":"structure",
  "members":{
    "Instances":{"shape":"InstanceList"},
    "NextToken":{"shape":"String"}
  }
},
"ListLinuxSubscriptionsRequest":{
  "type":"structure",
  "members":{
    "Filters":{"shape":"FilterList"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"ListLinuxSubscriptionsRequestNextTokenString"}
  }
},
"ListLinuxSubscriptionsRequestNextTokenString":{

```
  "type":"string",
  "max":16384,
  "min":1
},
"ListLinuxSubscriptionsResponse":{
  "type":"structure",
  "members":{
    "NextToken":{"shape":"String"},
    "Subscriptions":{"shape":"SubscriptionList"}
  }
},
"Operator":{
  "type":"string",
  "enum":[
    "Equal",
    "NotEqual",
    "Contains"
  ],
  "max":20,
  "min":1
},
"OrganizationIntegration":{
   "type":"string",
  "enum":[
    "Enabled",
    "Disabled"
  ]
},
"ProductCodeList":{
  "type":"list",
  "member":{"shape":"String"}
},
"Status":{
  "type":"string",
  "enum":[
    "InProgress",
    "Completed",
    "Successful",
    "Failed"
  ]
},
"String":{"type":"string"},
"StringList":{
  "type":"list",
  "member":{"shape":"StringListMemberString"},
  "max":100,
  "min":1
},
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"StringListMemberString":{
  "type":"string",
  "max":100,
  "min":1
},
"StringMap":{
  "type":"map",
  "key":{"shape":"String"},
  "value":{"shape":"String"}
},
"Subscription":{
  "type":"structure",
  "members":{
    "InstanceCount":{"shape":"BoxLong"},
    "Name":{"shape":"String"},
    "Type":{"shape":"String"}
  }
},
"SubscriptionList":{
  "type":"list",
  "member":{"shape":"Subscription"}
},
"ThrottlingException":{
   "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "exception":true
},
"UpdateServiceSettingsRequest":{
  "type":"structure",
  "required":[
    "LinuxSubscriptionsDiscovery",
    "LinuxSubscriptionsDiscoverySettings"
  ],
  "members":{
    "AllowUpdate":{"shape":"Boolean"},
    "LinuxSubscriptionsDiscovery":{"shape":"LinuxSubscriptionsDiscovery"},
    "LinuxSubscriptionsDiscoverySettings":{"shape":"LinuxSubscriptionsDiscoverySettings"}
  }
},
"UpdateServiceSettingsResponse":{
  "type":"structure",
  "members":{
    "HomeRegions":{"shape":"StringList"},
    "LinuxSubscriptionsDiscovery":{"shape":"LinuxSubscriptionsDiscovery"},
    "LinuxSubscriptionsDiscoverySettings":{"shape":"LinuxSubscriptionsDiscoverySettings"},
    "Status":{"shape":"Status"},

"StatusMessage":{"shape":"StringMap"}
}
},
"ValidationException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
},
"exception":true
}
}
}
{
"version": "2.0",
"service": " With License Manager, you can discover and track your commercial Linux subscriptions on running Amazon EC2 instances. ",
"operations": {
"GetServiceSettings": " Lists the Linux subscriptions service settings. ",
"ListLinuxSubscriptionInstances": " Lists the running Amazon EC2 instances that were discovered with commercial Linux subscriptions. ",
"ListLinuxSubscriptions": " Lists the Linux subscriptions that have been discovered. If you have linked your organization, the returned results will include data aggregated across your accounts in Organizations. ",
"UpdateServiceSettings": " Updates the service settings for Linux subscriptions. "
},
"shapes": {
"Boolean": {
"base": null,
"refs": {
"UpdateServiceSettingsRequest$AllowUpdate": " Describes if updates are allowed to the service settings for Linux subscriptions. If you allow updates, you can aggregate Linux subscription data in
more than one home Region. "
}
},
"BoxInteger": {
"base": null,
"refs": {
"ListLinuxSubscriptionInstancesRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListLinuxSubscriptionsRequest$MaxResults": " Maximum number of results to return in a single call. "
}
},
"BoxLong": {
"base": null,
"refs": {
"Subscription$InstanceCount": " The total amount of running instances using this subscription. "
}
},
"Filter": {

"base": " A filter object that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria. ",
"refs": {
"FilterList$member": null
}
},
"FilterList": {
"base": null,
"refs": {
"ListLinuxSubscriptionInstancesRequest$Filters": " An array of structures that you can use to filter the results to those that match one
or more sets of key-value pairs that you specify. For example, you can filter by the name of <code>AmiID</code> with an optional operator to see subscriptions that match, partially match, or don't match a certain Amazon Machine Image (AMI) ID. The valid names for this filter are: <ul> <code>AmiID</code>   <code>InstanceID</code>   <code>AccountID</code>   <code>Status</code>   <code>Region</code>   <code>UsageOperation</code>   <code>ProductCode</code>   <code>InstanceType</code>   The valid Operators for this filter are: <ul> <code>contains</code>   <code>equals</code>   <code>Notequal</code> ",
"ListLinuxSubscriptionsRequest$Filters": " An array of structures that you can use to filter the results to those that match one or more sets of key-value
pairs that you specify. For example, you can filter by the name of <code>Subscription</code> with an optional operator to see subscriptions that match, partially match, or don't match a certain subscription's name. The valid names for this filter are: <ul> <code>Subscription</code>   The valid Operators for this filter are: <ul> <code>contains</code>   <code>equals</code>   <code>Notequal</code> "
}
},
"GetServiceSettingsRequest": {
"base": null,
"refs": {
}
},
"GetServiceSettingsResponse": {
"base": null,
"refs": {
}
},
"Instance": {
"base": " Details discovered information about a running instance using Linux subscriptions. ",
"refs": {
"InstanceList$member": null
}
},
"InstanceList": {
"base": null,
"refs": {

"ListLinuxSubscriptionInstancesResponse$Instances":
" An array that contains instance objects. "
}
},
"InternalServerException": {
"base": " An exception occurred with the service. ",
"refs": {
}
},
"LinuxSubscriptionsDiscovery": {
"base": null,
"refs": {
"GetServiceSettingsResponse$LinuxSubscriptionsDiscovery": " Lists if discovery has been enabled for Linux subscriptions. ",
"UpdateServiceSettingsRequest$LinuxSubscriptionsDiscovery": " Describes if the discovery of Linux subscriptions is enabled. ",
"UpdateServiceSettingsResponse$LinuxSubscriptionsDiscovery": " Lists if discovery has been enabled for Linux subscriptions. "
}
},
"LinuxSubscriptionsDiscoverySettings": {
"base": " Lists the settings defined for discovering Linux subscriptions. ",
"refs": {
"GetServiceSettingsResponse$LinuxSubscriptionsDiscoverySettings": " Lists the settings defined for Linux subscriptions discovery. The settings
include if Organizations integration has been enabled, and which Regions data will be aggregated from. ",
"UpdateServiceSettingsRequest$LinuxSubscriptionsDiscoverySettings": " The settings defined for Linux subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data will be aggregated from. ",
"UpdateServiceSettingsResponse$LinuxSubscriptionsDiscoverySettings": " The settings defined for Linux subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data will be aggregated from. "
}
},
"ListLinuxSubscriptionInstancesRequest": {
"base": " NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in request increases. ",
"refs": {
}
},
"ListLinuxSubscriptionInstancesRequestNextTokenString": {
"base": null,
"refs": {
"ListLinuxSubscriptionInstancesRequest$NextToken":
" Token for the next set of results. "
}
},
"ListLinuxSubscriptionInstancesResponse": {

"base": null,
"refs": {
}
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"ListLinuxSubscriptionsRequest": {
"base": " NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in request increases. ",
"refs": {
}
},
"ListLinuxSubscriptionsRequestNextTokenString": {
"base": null,
"refs": {
"ListLinuxSubscriptionsRequest$NextToken": " Token for the next set of results. "
}
},
"ListLinuxSubscriptionsResponse": {
"base": null,
"refs": {
}
},
"Operator": {
"base": null,
"refs": {
"Filter$Operator": " An operator for filtering results. "
}
},
"OrganizationIntegration": {
"base": null,
"refs": {
"LinuxSubscriptionsDiscoverySettings$OrganizationIntegration": " Details if you have enabled resource discovery across
your accounts in Organizations. "
}
},
"ProductCodeList": {
"base": null,
"refs": {
"Instance$ProductCode": " The product code for the instance. For more information, see Usage operation values in the License Manager User Guide . "
}
},
"Status": {
"base": null,
"refs": {
"GetServiceSettingsResponse$Status": " Indicates the status of Linux subscriptions settings being applied. ",

"UpdateServiceSettingsResponse$Status": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"String": {
"base": null,
"refs": {
"Filter$Name": " The type of name to filter by. ",
"Instance$AccountID": " The account ID which owns the instance. ",
"Instance$AmiId": " The AMI ID used to launch the instance. ",
"Instance$InstanceID": " The instance ID of the resource. ",
"Instance$InstanceType": " The instance type of the resource. ",
"Instance$LastUpdatedTime": " The time in which the last discovery updated the instance details. ",
"Instance$Region": " The Region the instance is running in. ",
"Instance$Status": " The status of the instance. ",
"Instance$SubscriptionName": " The name of the subscription being used by the instance. ",
"Instance$UsageOperation": " The usage operation of the instance. For more information, see For more information, see Usage operation values in the License Manager User Guide. ",
"InternalServerException$message": null,
"ListLinuxSubscriptionInstancesResponse$NextToken": " Token for the next set of results. ",
"ListLinuxSubscriptionsResponse$NextToken": " Token for the next set of results. ",
"ProductCodeList$member": null,
"StringMap$key": null,
"StringMap$value": null,
"Subscription$Name": " The name of the subscription. ",
"Subscription$Type": " The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS. ",
"ThrottlingException$message": null,
"ValidationException$message": null
}
},
"StringList": {
"base": null,
"refs": {
"Filter$Values": " One or more values for the name to filter by. ",
"GetServiceSettingsResponse$HomeRegions": " The Region in which License Manager displays the aggregated data for Linux subscriptions. ",
"LinuxSubscriptionsDiscoverySettings$SourceRegions": " The Regions in which to discover data for Linux subscriptions. ",
"UpdateServiceSettingsResponse$HomeRegions": " The Region in which License Manager displays the aggregated data for Linux subscriptions. "
}
},
"StringListMemberString": {

"base": null,
"refs": {
"StringList$member": null
}
},
"StringMap": {
"base": null,
"refs": {
"GetServiceSettingsResponse$StatusMessage": " A message which details the Linux subscriptions service settings current status. ",
"UpdateServiceSettingsResponse$StatusMessage": " A message which details the Linux subscriptions service settings current status. "
}
},
"Subscription": {
"base": " An object which details a discovered Linux subscription. ",
"refs": {
"SubscriptionList$member": null
}
},
"SubscriptionList": {
"base": null,
"refs": {

"ListLinuxSubscriptionsResponse$Subscriptions": " An array that contains subscription objects. "
}
},
"ThrottlingException": {
"base": " The request was denied due to request throttling. ",
"refs": {
}
},
"UpdateServiceSettingsRequest": {
"base": null,
"refs": {
}
},
"UpdateServiceSettingsResponse": {
"base": null,
"refs": {
}
},
"ValidationException": {
"base": " The provided input is not valid. Try your request again. ",
"refs": {
}
}
}

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{
  "testCases": [
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      "documentation": "For region af-south-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.af-south-1.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "af-south-1"
      }
    },
    {
      "documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-east-1.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "ap-east-1"
      }
    },
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      "documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",

  "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-northeast-1.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "ap-northeast-1"
      }
    },
    {
      "documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-northeast-2.amazonaws.com"

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            }
        },
        "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Region": "ap-northeast-2"
        }
    },
    {
        "documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.ap-northeast-3.amazonaws.com"
             }
        },
        "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Region": "ap-northeast-3"
        }
    },
    {
        "documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.ap-south-1.amazonaws.com"
            }
        },
        "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Region": "ap-south-1"
        }
    },
    {
        "documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.ap-southeast-1.amazonaws.com"
            }
        },
        "params": {
            "UseFIPS": false,
            "UseDualStack":
false,
            "Region": "ap-southeast-1"
        }
    },
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{
"documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-southeast-2.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "ap-southeast-2"
}
},
{
"documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-southeast-3.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "ap-southeast-3"
}
},
{
"documentation":
"For region ca-central-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ca-central-1.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "ca-central-1"
}
},
{
"documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-central-1.amazonaws.com"
}
},
"params": {

"UseFIPS": false,
"UseDualStack": false,
"Region": "eu-central-1"
}
},
{
"documentation": "For region eu-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint":
{
"url": "https://license-manager.eu-north-1.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "eu-north-1"
}
},
{
"documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-south-1.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "eu-south-1"
}
},
{
"documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-west-1.amazonaws.com"
}
},
"params":
{
"UseFIPS": false,
"UseDualStack": false,
"Region": "eu-west-1"
}
},
{
"documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",

"expect": {
"endpoint": {
"url": "https://license-manager.eu-west-2.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "eu-west-2"
}
},
{
"documentation": "For region eu-west-3 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-west-3.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "eu-west-3"
}

},
{
"documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.me-south-1.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "me-south-1"
}
},
{
"documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.sa-east-1.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,

"Region": "sa-east-1"
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {

"endpoint": {
"url": "https://license-manager.us-east-1.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "us-east-1"
}
},
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-east-1.amazonaws.com"
}
},
"params": {
"UseFIPS": true,
"UseDualStack": false,
"Region": "us-east-1"
}
},
{
"documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-east-2.amazonaws.com"
}
},

"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "us-east-2"
}
},
{
"documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {

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            "url": "https://license-manager-fips.us-east-2.amazonaws.com"
          }
        },
        "params": {
          "UseFIPS": true,
          "UseDualStack": false,
          "Region": "us-east-2"
        }
      },
      {
        "documentation": "For region us-west-1 with FIPS disabled and DualStack disabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager.us-west-1.amazonaws.com"
          }
        },
        "params": {
          "UseFIPS": false,
          "UseDualStack": false,
          "Region": "us-west-1"

    }
      },
      {
        "documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager-fips.us-west-1.amazonaws.com"
          }
        },
        "params": {
          "UseFIPS": true,
          "UseDualStack": false,
          "Region": "us-west-1"
        }
      },
      {
        "documentation": "For region us-west-2 with FIPS disabled and DualStack disabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager.us-west-2.amazonaws.com"
          }
        },
        "params": {
          "UseFIPS": false,
          "UseDualStack": false,
          "Region": "us-west-2"
        }
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    },
    {
      "documentation": "For region us-west-2 with FIPS enabled and DualStack disabled",
      "expect":
{
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        }
      },
      "params": {
        "UseFIPS": true,
        "UseDualStack": false,
        "Region": "us-west-2"
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-fips.us-east-1.api.aws"
        }
      },
      "params": {
        "UseFIPS": true,
        "UseDualStack": true,
        "Region": "us-east-1"
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.us-east-1.api.aws"
        }
      },

     "params": {
        "UseFIPS": false,
        "UseDualStack": true,
        "Region": "us-east-1"
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.cn-north-1.amazonaws.com.cn"
        }
```

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    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": false,
      "Region": "cn-north-1"
    }
  },
  {
    "documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
      }
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": false,
      "Region": "cn-northwest-1"
     }
  },
  {
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
      }
    },
    "params": {
      "UseFIPS": true,
      "UseDualStack": true,
      "Region": "cn-north-1"
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
      }
    },
    "params": {
      "UseFIPS": true,
      "UseDualStack": false,
      "Region": "cn-north-1"
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS disabled
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and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": true,
"Region": "cn-north-1"
}
},
{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-gov-east-1.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "us-gov-east-1"
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
}
},
"params": {
"UseFIPS": true,
"UseDualStack": false,
"Region": "us-gov-east-1"
}
},
{
"documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-gov-west-1.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,

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        "Region": "us-gov-west-1"
      }
    },
    {
      "documentation": "For region us-gov-west-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
        }
      },
      "params": {

        "UseFIPS": true,
        "UseDualStack": false,
        "Region": "us-gov-west-1"
      }
    },
    {
      "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-fips.us-gov-east-1.api.aws"
        }
      },
      "params": {
        "UseFIPS": true,
        "UseDualStack": true,
        "Region": "us-gov-east-1"
      }
    },
    {
      "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "endpoint": {
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        }
      },
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        "UseFIPS": false,
        "UseDualStack": true,
        "Region": "us-gov-east-1"
      }

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```

]
}
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"http":{
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"output":{"shape":"StartProductSubscriptionResponse"},
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{"shape":"ConflictException"},
{"shape":"ValidationException"},
{"shape":"ThrottlingException"},
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"AccessDeniedException"}
]
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"responseCode":200
},
"input":{"shape":"StopProductSubscriptionRequest"},
"output":{"shape":"StopProductSubscriptionResponse"},
"errors":[
{"shape":"ServiceQuotaExceededException"},
{"shape":"ConflictException"},
{"shape":"ValidationException"},
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{"shape":"InternalServerException"},
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{"shape":"AccessDeniedException"}
]
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      "responseCode":200
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    "idempotent":true
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    "exception":true
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    "members":{
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     "required":[
      "IdentityProvider",
      "InstanceId",
      "Username"
    ],
    "members":{
      "Domain":{"shape":"String"},
      "IdentityProvider":{"shape":"IdentityProvider"},
      "InstanceId":{"shape":"String"},
      "Username":{"shape":"String"}
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"fault":true
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"Product"
],
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"Product":{"shape":"String"}
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},
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    "Status":{"shape":"String"}
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"Domain":{"shape":"String"},
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"Status":{"shape":"String"},
"StatusMessage":{"shape":"String"},
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"exception":true,

```
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  }
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  }
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"SubscriptionStartDate":{"shape":"String"},
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"Settings":{"shape":"Settings"}
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"RegisterIdentityProviderResponse":{
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"exception":true
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"Username":{"shape":"String"}
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"IdentityProvider":{"shape":"IdentityProvider"},
"Product":{"shape":"String"},
"Username":{"shape":"String"}
}
},

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"RemoveSubnets"
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"ValidationException":{
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"exception":true
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}
}

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```
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 "pagination": {
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}
{
  "version": "1.0",
  "parameters": {
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        "required": false,
```

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"required": true,
"default": false,
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"type": "Boolean"
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"UseFIPS": {
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"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
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"required": false,
"documentation": "Override the endpoint used to send this request",
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{
"ref": "Endpoint"
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]
}
],
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{
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{
"fn": "booleanEquals",
"argv": [
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"ref": "UseFIPS"

```
                    },
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endpoint are not supported",
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                "conditions": [
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                        "fn": "booleanEquals",
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                                "ref": "UseDualStack"
                            },
                            true
                        ]
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                "type": "error"
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                "type": "endpoint"
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    "conditions": [],
    "type": "tree",
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```

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          "ref": "Region"
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                },
```

true

```
              ]
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                },
                true
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```

```
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            ]
          }
        ]
      },
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      }
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        "conditions": [],
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            "conditions": [],
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```

fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]

}
]
},
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"type": "error"
}
]
},
{
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"argv": [
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},
true

]
}
],
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"conditions": [
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{
"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"

},
"supportsFIPS"

```
                    ]
                }
            ]
        }
    ],
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            "conditions": [],
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            "rules": [
                {
                    "conditions": [],
                    "endpoint": {
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"https://license-manager-fips.{Region}.{PartitionResult#dnsSuffix}",
                        "properties": {},
                        "headers": {}
                    },
                    "type": "endpoint"
                }
            ]
        }
    ]
},
{
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        {
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            "argv": [
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                    "ref": "UseDualStack"
                },
                true
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```

```
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                        {
                            "fn": "booleanEquals",
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[
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                            "rules": [
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                            ]

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                    ]
                },
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            ]
        },
        {
```

```
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                      "headers": {}
                    },
                    "type": "endpoint"
                  }
                ]
              }
            ]
          }
        ]
      },
      {
        "conditions": [],
        "error": "Invalid Configuration: Missing Region",
        "type": "error"
      }
    ]
  }
]
}
```


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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Protocol Buffers for Go with Gadgets

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1.2343 gax-go 2.12.2

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1.2346 github.com/bboreham/go-loser 0.0.0-20230920113527-fcc2c21820a3

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1.2351 zlib 1.3.1

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1.2352 benbjohnson-clock 1.3.5

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1.2353 go-connections 0.5.0

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1.2354 color 1.16.0

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1.2356 k8s-io-kube-openapi 0.0.0-20240228011516-70dd3763d340

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1.2362 go-restful 3.12.0

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1.2366 github.com/azuread/microsoft-authentication-library-for-go 1.2.2

1.2366.1 Available under license :

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SOFTWARE

1.2367 github.com/azure/azure-sdk-for-go/sdk/azcore 1.10.0

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//go:build go1.18
// +build go1.18

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```
// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package fake

import (
 "context"
 "errors"
 "fmt"
 azfake "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake/server"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
 "net/http"
 "net/url"
 "regexp"
)

// LicensesServer is a fake server for instances of the armhybridcompute.LicensesClient type.
type LicensesServer struct {
 // BeginCreateOrUpdate is the fake for method LicensesClient.BeginCreateOrUpdate
 // HTTP status codes to indicate success:
 http.StatusOK
 BeginCreateOrUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
armhybridcompute.License, options *armhybridcompute.LicensesClientBeginCreateOrUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse], errResp
azfake.ErrorResponder)

 // BeginDelete is the fake for method LicensesClient.BeginDelete
 // HTTP status codes to indicate success: http.StatusOK, http.StatusNoContent
 BeginDelete func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientBeginDeleteOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse], errResp azfake.ErrorResponder)

 // Get is the fake for method LicensesClient.Get
 // HTTP status codes to indicate success: http.StatusOK
 Get func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientGetOptions) (resp
azfake.Responder[armhybridcompute.LicensesClientGetResponse],
 errResp azfake.ErrorResponder)

 // NewListByResourceGroupPager is the fake for method LicensesClient.NewListByResourceGroupPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListByResourceGroupPager func(resourceGroupName string, options
*armhybridcompute.LicensesClientListByResourceGroupOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse])
```

```
 // NewListBySubscriptionPager is the fake for method LicensesClient.NewListBySubscriptionPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListBySubscriptionPager func(options *armhybridcompute.LicensesClientListBySubscriptionOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse])

 // BeginUpdate is the fake for method LicensesClient.BeginUpdate
 // HTTP status codes to indicate success: http.StatusOK
 BeginUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
 armhybridcompute.LicenseUpdate, options *armhybridcompute.LicensesClientBeginUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse], errResp azfake.ErrorResponder)

 // BeginValidateLicense is the fake for method LicensesClient.BeginValidateLicense
 // HTTP status codes to indicate success: http.StatusOK
 BeginValidateLicense func(ctx context.Context, parameters armhybridcompute.License, options
*armhybridcompute.LicensesClientBeginValidateLicenseOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse], errResp
azfake.ErrorResponder)
}

// NewLicensesServerTransport creates a new instance of LicensesServerTransport with the provided
implementation.
// The returned LicensesServerTransport instance is connected to an instance of armhybridcompute.LicensesClient
via the
// azcore.ClientOptions.Transporter field in the client's constructor parameters.
func NewLicensesServerTransport(srv *LicensesServer) *LicensesServerTransport
 {
 return &LicensesServerTransport{
  srv:                    srv,
  beginCreateOrUpdate:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]](),
  beginDelete:            newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]](),
  newListByResourceGroupPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]](),
  newListBySubscriptionPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]](),
  beginUpdate:            newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]](),
  beginValidateLicense:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]](),
 }
}

// LicensesServerTransport connects instances of armhybridcompute.LicensesClient to instances of LicensesServer.
// Don't use this type directly, use NewLicensesServerTransport
 instead.
type LicensesServerTransport struct {
 srv                    *LicensesServer
 beginCreateOrUpdate
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]]
```

```
 beginDelete                 *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]]
 newListByResourceGroupPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]]
 newListBySubscriptionPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]]
 beginUpdate                 *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]]
 beginValidateLicense
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]]
}

// Do implements the policy.Transporter interface for LicensesServerTransport.
func (l *LicensesServerTransport) Do(req *http.Request) (*http.Response, error) {
 rawMethod := req.Context().Value(runtime.CtxAPINameKey{})
 method,
 ok := rawMethod.(string)
 if !ok {
  return nil, nonRetriableError{errors.New("unable to dispatch request, missing value for CtxAPINameKey")}
 }

 var resp *http.Response
 var err error

 switch method {
 case "LicensesClient.BeginCreateOrUpdate":
  resp, err = l.dispatchBeginCreateOrUpdate(req)
 case "LicensesClient.BeginDelete":
  resp, err = l.dispatchBeginDelete(req)
 case "LicensesClient.Get":
  resp, err = l.dispatchGet(req)
 case "LicensesClient.NewListByResourceGroupPager":
  resp, err = l.dispatchNewListByResourceGroupPager(req)
 case "LicensesClient.NewListBySubscriptionPager":
  resp, err = l.dispatchNewListBySubscriptionPager(req)
 case "LicensesClient.BeginUpdate":
  resp, err = l.dispatchBeginUpdate(req)
 case "LicensesClient.BeginValidateLicense":
  resp, err = l.dispatchBeginValidateLicense(req)
 default:
  err = fmt.Errorf("unhandled API %s", method)
 }

 if err != nil {
  return nil, err
 }

 return resp, nil
}
```

```
func (l *LicensesServerTransport) dispatchBeginCreateOrUpdate(req
 *http.Request) (*http.Response, error) {
 if l.srv.BeginCreateOrUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginCreateOrUpdate not implemented")}
 }
 beginCreateOrUpdate := l.beginCreateOrUpdate.get(req)
 if beginCreateOrUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return
 nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginCreateOrUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body,
nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginCreateOrUpdate = &respr
  l.beginCreateOrUpdate.add(req, beginCreateOrUpdate)
 }

 resp, err := server.PollerResponderNext(beginCreateOrUpdate, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginCreateOrUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginCreateOrUpdate) {
```

```
 l.beginCreateOrUpdate.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginDelete(req *http.Request) (*http.Response, error) {
 if l.srv.BeginDelete
 == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginDelete not implemented")}
 }
 beginDelete := l.beginDelete.get(req)
 if beginDelete == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginDelete(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
  if
 respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginDelete = &respr
  l.beginDelete.add(req, beginDelete)
 }

 resp, err := server.PollerResponderNext(beginDelete, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK, http.StatusNoContent}, resp.StatusCode) {
  l.beginDelete.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK,
http.StatusNoContent", resp.StatusCode)}
 }
```

```
 if !server.PollerResponderMore(beginDelete) {
  l.beginDelete.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchGet(req *http.Request) (*http.Response, error) {
 if l.srv.Get == nil {
  return nil, &nonRetriableError{errors.New("fake for method Get not implemented")}
 }
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
 regex
 := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 3 {
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
  return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.Get(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 respContent := server.GetResponseContent(respr)
 if !contains([]int{http.StatusOK}, respContent.HTTPStatus) {
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
respContent.HTTPStatus)}
 }
 resp, err := server.MarshalResponseAsJSON(respContent,
 server.GetResponse(respr).License, req)
 if err != nil {
  return nil, err
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListByResourceGroupPager(req *http.Request) (*http.Response,
error) {
 if l.srv.NewListByResourceGroupPager == nil {
```

```
  return nil, &nonRetriableError{errors.New("fake for method NewListByResourceGroupPager not implemented")}
 }
 newListByResourceGroupPager := l.newListByResourceGroupPager.get(req)
 if newListByResourceGroupPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 2 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if
 err != nil {
   return nil, err
  }
  resp := l.srv.NewListByResourceGroupPager(resourceGroupNameParam, nil)
  newListByResourceGroupPager = &resp
  l.newListByResourceGroupPager.add(req, newListByResourceGroupPager)
  server.PagerResponderInjectNextLinks(newListByResourceGroupPager, req, func(page
*armhybridcompute.LicensesClientListByResourceGroupResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp, err := server.PagerResponderNext(newListByResourceGroupPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListByResourceGroupPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListByResourceGroupPager) {
  l.newListByResourceGroupPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListBySubscriptionPager(req *http.Request)
 (*http.Response, error) {
 if l.srv.NewListBySubscriptionPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListBySubscriptionPager not implemented")}
 }
 newListBySubscriptionPager := l.newListBySubscriptionPager.get(req)
 if newListBySubscriptionPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
```

```
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 1 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resp := l.srv.NewListBySubscriptionPager(nil)
  newListBySubscriptionPager = &resp
  l.newListBySubscriptionPager.add(req, newListBySubscriptionPager)
  server.PagerResponderInjectNextLinks(newListBySubscriptionPager, req, func(page
*armhybridcompute.LicensesClientListBySubscriptionResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp,
 err := server.PagerResponderNext(newListBySubscriptionPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListBySubscriptionPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListBySubscriptionPager) {
  l.newListBySubscriptionPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginUpdate(req *http.Request) (*http.Response, error) {
 if l.srv.BeginUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginUpdate not implemented")}
 }
 beginUpdate := l.beginUpdate.get(req)
 if beginUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex
 := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.LicenseUpdate](req)
  if err != nil {
   return nil, err
```

```
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body, nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginUpdate = &respr
  l.beginUpdate.add(req, beginUpdate)
 }

 resp, err := server.PollerResponderNext(beginUpdate, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK},
 resp.StatusCode) {
  l.beginUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginUpdate) {
  l.beginUpdate.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginValidateLicense(req *http.Request) (*http.Response, error) {
 if l.srv.BeginValidateLicense == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginValidateLicense not implemented")}
 }
 beginValidateLicense := l.beginValidateLicense.get(req)
 if beginValidateLicense == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/validateLicense`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 1 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
```

```
 body,
 err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.BeginValidateLicense(req.Context(), body, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 beginValidateLicense = &respr
 l.beginValidateLicense.add(req, beginValidateLicense)
}

resp, err := server.PollerResponderNext(beginValidateLicense, req)
if err != nil {
 return nil, err
}

if !contains([]int{http.StatusOK}, resp.StatusCode) {
 l.beginValidateLicense.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}
if !server.PollerResponderMore(beginValidateLicense) {
 l.beginValidateLicense.remove(req)
}

return resp, nil
}
```

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//go:build go1.18
// +build go1.18

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// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package armhybridcompute

import (
 "context"
 "errors"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/arm"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/policy"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "net/http"
 "net/url"
 "strings"
)

// LicensesClient contains the methods for the Licenses group.
// Don't use this type directly, use NewLicensesClient() instead.
type LicensesClient struct {
 internal       *arm.Client
 subscriptionID string
}

// NewLicensesClient creates a new instance of LicensesClient with the specified values.
//   - subscriptionID - The ID of the target
 subscription.
//   - credential - used to authorize requests. Usually a credential from azidentity.
//   - options - pass nil to accept the default values.
func NewLicensesClient(subscriptionID string, credential azcore.TokenCredential, options *arm.ClientOptions)
(*LicensesClient, error) {
 cl, err := arm.NewClient(moduleName, moduleVersion, credential, options)
 if err != nil {
  return nil, err
 }
 client := &LicensesClient{
  subscriptionID: subscriptionID,
  internal:       cl,
 }
 return client, nil
```

```
}

// BeginCreateOrUpdate - The operation to create or update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - parameters - Parameters supplied to the Create license operation.
//   - options - LicensesClientBeginCreateOrUpdateOptions contains the optional parameters
 for the LicensesClient.BeginCreateOrUpdate
//     method.
func (client *LicensesClient) BeginCreateOrUpdate(ctx context.Context, resourceGroupName string, licenseName
string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions)
(*runtime.Poller[LicensesClientCreateOrUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.createOrUpdate(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// CreateOrUpdate - The operation to create or update a license.
// If the
 operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) createOrUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginCreateOrUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.createOrUpdateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
```

```
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// createOrUpdateCreateRequest creates
 the CreateOrUpdate request.
func (client *LicensesClient) createOrUpdateCreateRequest(ctx context.Context, resourceGroupName string,
licenseName string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*policy.Request,
error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx,
 http.MethodPut, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginDelete - The operation to delete a license.
```

```
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientBeginDeleteOptions contains the optional parameters for the
LicensesClient.BeginDelete method.
func (client *LicensesClient) BeginDelete(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*runtime.Poller[LicensesClientDeleteResponse],
 error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.deleteOperation(ctx, resourceGroupName, licenseName, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// Delete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) deleteOperation(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*http.Response, error) {
 var err error
 const
 operationName = "LicensesClient.BeginDelete"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.deleteCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
```

```
 if !runtime.HasStatusCode(httpResp, http.StatusOK, http.StatusNoContent) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// deleteCreateRequest creates the Delete request.
func (client *LicensesClient) deleteCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientBeginDeleteOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodDelete, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// Get - Retrieves information about the view of a license.
//
 If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientGetOptions contains the optional parameters for the LicensesClient.Get method.
func (client *LicensesClient) Get(ctx context.Context, resourceGroupName string, licenseName string, options
*LicensesClientGetOptions) (LicensesClientGetResponse, error) {
 var err error
```

```
 const operationName = "LicensesClient.Get"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.getCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return LicensesClientGetResponse{}, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil
 {
  return LicensesClientGetResponse{}, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return LicensesClientGetResponse{}, err
 }
 resp, err := client.getHandleResponse(httpResp)
 return resp, err
}

// getCreateRequest creates the Get request.
func (client *LicensesClient) getCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientGetOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
 licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
```

```
 return req, nil
}

// getHandleResponse handles the Get response.
func (client *LicensesClient) getHandleResponse(resp *http.Response) (LicensesClientGetResponse, error) {
 result := LicensesClientGetResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.License); err != nil {
  return LicensesClientGetResponse{}, err
 }
 return result, nil
}

// NewListByResourceGroupPager - The operation to get all licenses of a non-Azure machine
//
// Generated from
 API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - options - LicensesClientListByResourceGroupOptions contains the optional parameters for the
LicensesClient.NewListByResourceGroupPager
//     method.
func (client *LicensesClient) NewListByResourceGroupPager(resourceGroupName string, options
*LicensesClientListByResourceGroupOptions) *runtime.Pager[LicensesClientListByResourceGroupResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListByResourceGroupResponse]{
  More: func(page LicensesClientListByResourceGroupResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListByResourceGroupResponse)
(LicensesClientListByResourceGroupResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListByResourceGroupPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp,
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listByResourceGroupCreateRequest(ctx, resourceGroupName, options)
   }, nil)
   if err != nil {
    return LicensesClientListByResourceGroupResponse{}, err
   }
   return client.listByResourceGroupHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listByResourceGroupCreateRequest creates the ListByResourceGroup request.
```

```
func (client *LicensesClient) listByResourceGroupCreateRequest(ctx context.Context, resourceGroupName string,
options *LicensesClientListByResourceGroupOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es"
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listByResourceGroupHandleResponse handles the ListByResourceGroup response.
func (client *LicensesClient) listByResourceGroupHandleResponse(resp *http.Response)
(LicensesClientListByResourceGroupResponse, error) {
 result := LicensesClientListByResourceGroupResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListByResourceGroupResponse{}, err
 }
 return
 result, nil
}

// NewListBySubscriptionPager - The operation to get all licenses of a non-Azure machine
//
// Generated from API version 2023-06-20-preview
//   - options - LicensesClientListBySubscriptionOptions contains the optional parameters for the
LicensesClient.NewListBySubscriptionPager
//     method.
func (client *LicensesClient) NewListBySubscriptionPager(options *LicensesClientListBySubscriptionOptions)
*runtime.Pager[LicensesClientListBySubscriptionResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListBySubscriptionResponse]{
  More: func(page LicensesClientListBySubscriptionResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
```

```
  Fetcher: func(ctx context.Context, page *LicensesClientListBySubscriptionResponse)
(LicensesClientListBySubscriptionResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListBySubscriptionPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp,
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listBySubscriptionCreateRequest(ctx, options)
   }, nil)
   if err != nil {
    return LicensesClientListBySubscriptionResponse{}, err
   }
   return client.listBySubscriptionHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listBySubscriptionCreateRequest creates the ListBySubscription request.
func (client *LicensesClient) listBySubscriptionCreateRequest(ctx context.Context, options
*LicensesClientListBySubscriptionOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/licenses"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet,
 runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listBySubscriptionHandleResponse handles the ListBySubscription response.
func (client *LicensesClient) listBySubscriptionHandleResponse(resp *http.Response)
(LicensesClientListBySubscriptionResponse, error) {
 result := LicensesClientListBySubscriptionResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListBySubscriptionResponse{}, err
 }
```

```
 return result, nil
}

// BeginUpdate - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName
 - The name of the license.
//   - parameters - Parameters supplied to the Update license operation.
//   - options - LicensesClientBeginUpdateOptions contains the optional parameters for the
LicensesClient.BeginUpdate method.
func (client *LicensesClient) BeginUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions)
(*runtime.Poller[LicensesClientUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.update(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientUpdateResponse]{
   Tracer:
 client.internal.Tracer(),
  })
 }
}

// Update - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) update(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.updateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
```

```
 return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return
 nil, err
 }
 return httpResp, nil
}

// updateCreateRequest creates the Update request.
func (client *LicensesClient) updateCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}",
 url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodPatch, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginValidateLicense - The operation to validate a license.
```

```
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - parameters - Parameters supplied to the license validation operation.
//   - options - LicensesClientBeginValidateLicenseOptions contains the optional parameters for the
LicensesClient.BeginValidateLicense
//     method.
func (client *LicensesClient) BeginValidateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions)
 (*runtime.Poller[LicensesClientValidateLicenseResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.validateLicense(ctx, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientValidateLicenseResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientValidateLicenseResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// ValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) validateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions)
 (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginValidateLicense"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.validateLicenseCreateRequest(ctx, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
```

```
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// validateLicenseCreateRequest creates the ValidateLicense request.
func (client *LicensesClient) validateLicenseCreateRequest(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/validateLicense"
 if client.subscriptionID
 == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodPost, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}
```

azwebpubsub

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//go:build go1.18
// +build go1.18

```
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package armhybridcompute_test

import (
 "context"
 "log"

 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/azidentity"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
)

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_ValidateLicense.json
func ExampleLicensesClient_BeginValidateLicense() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err !=
 nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginValidateLicense(ctx, armhybridcompute.License{
  Location: to.Ptr("eastus2euap"),
  Properties: &armhybridcompute.LicenseProperties{
   LicenseDetails: &armhybridcompute.LicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
```

```
 res, err := poller.PollUntilDone(ctx, nil)
 if err !=
 nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID: to.Ptr("/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/Licenses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](2),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //
    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_CreateOrUpdate.json
func ExampleLicensesClient_BeginCreateOrUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginCreateOrUpdate(ctx, "myResourceGroup",
 "{licenseName}", armhybridcompute.License{
  Location: to.Ptr("eastus2euap"),
  Properties: &armhybridcompute.LicenseProperties{
```

```
  LicenseDetails: &armhybridcompute.LicenseDetails{
   Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
   Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
   Processors: to.Ptr[int32](6),
   State:      to.Ptr(armhybridcompute.LicenseStateActivated),
   Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
  },
  LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 },
}, nil)
if err != nil {
 log.Fatalf("failed to finish the request: %v", err)
}
res, err := poller.PollUntilDone(ctx, nil)
if err != nil {
 log.Fatalf("failed to pull the result: %v", err)
}
// You could use response here. We use blank identifier for just demo purposes.
_ = res
// If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values
 in the output are fake values for just demo purposes.
// res.License = armhybridcompute.License{
//  Name: to.Ptr("{licenseName}"),
//  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
//  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
//  Location: to.Ptr("eastus2euap"),
//  Properties: &armhybridcompute.LicenseProperties{
//   LicenseDetails: &armhybridcompute.LicenseDetails{
//    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
//    AssignedLicenses: to.Ptr[int32](2),
//    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//    ImmutableID: to.Ptr("<generated Guid>"),
//    Processors: to.Ptr[int32](6),
//    State: to.Ptr(armhybridcompute.LicenseStateActivated),
//    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//   },
//   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
//   TenantID: to.Ptr("{tenandId}"),
//  },
// }
}

// Generated
 from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
```

```
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_Update.json
func ExampleLicensesClient_BeginUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginUpdate(ctx, "myResourceGroup", "{licenseName}",
armhybridcompute.LicenseUpdate{
  Properties: &armhybridcompute.LicenseUpdateProperties{
   LicenseDetails: &armhybridcompute.LicenseUpdatePropertiesLicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors:
 to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/lice
nses/{licenseName}"),
 //
  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
```

```
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_Get.json
func ExampleLicensesClient_Get() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if
 err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 res, err := clientFactory.NewLicensesClient().Get(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //
  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
```

```
//    Processors: to.Ptr[int32](6),
//    State: to.Ptr(armhybridcompute.LicenseStateActivated),
//    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//   },
//   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
//   TenantID: to.Ptr("{tenandId}"),
//  },
// }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_Delete.json
func ExampleLicensesClient_BeginDelete()
 {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginDelete(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 _, err = poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
}

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specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-
preview/examples/license/License_ListByResourceGroup.json
func ExampleLicensesClient_NewListByResourceGroupPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if
 err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
```

```
 }
 pager := clientFactory.NewLicensesClient().NewListByResourceGroupPager("myResourceGroup", nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
   // You could use page here. We use blank identifier for just demo purposes.
   _ = v
  }
  // If the HTTP response code is 200 as defined in example definition, your page structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
  // page.LicensesListResult = armhybridcompute.LicensesListResult{
  //  Value: []*armhybridcompute.License{
  //   {
  //    Name: to.Ptr("{licenseName}"),
  //
   Type: to.Ptr("Microsoft.HybridCompute/licenses"),
  //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
  //    Location: to.Ptr("eastus2euap"),
  //    Properties: &armhybridcompute.LicenseProperties{
  //     LicenseDetails: &armhybridcompute.LicenseDetails{
  //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
  //      AssignedLicenses: to.Ptr[int32](8),
  //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
  //      ImmutableID: to.Ptr("<generated Guid>"),
  //      Processors: to.Ptr[int32](6),
  //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
  //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
  //     },
  //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  //     TenantID: to.Ptr("{tenandId}"),
  //    },
  //  }},
  // }
 }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-
preview/examples/license/License_ListBySubscription.json
func
 ExampleLicensesClient_NewListBySubscriptionPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
```

```
if err != nil {
 log.Fatalf("failed to obtain a credential: %v", err)
}
ctx := context.Background()
clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
if err != nil {
 log.Fatalf("failed to create client: %v", err)
}
pager := clientFactory.NewLicensesClient().NewListBySubscriptionPager(nil)
for pager.More() {
 page, err := pager.NextPage(ctx)
 if err != nil {
  log.Fatalf("failed to advance page: %v", err)
 }
 for _, v := range page.Value {
  // You could use page here. We use blank identifier for just demo purposes.
  _ = v
 }
 // If the HTTP response code is 200 as defined in example definition, your page structure would look as
 follows. Please pay attention that all the values in the output are fake values for just demo purposes.
 // page.LicensesListResult = armhybridcompute.LicensesListResult{
 //  Value: []*armhybridcompute.License{
 //   {
 //    Name: to.Ptr("{licenseName}"),
 //    Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //    Location: to.Ptr("eastus2euap"),
 //    Properties: &armhybridcompute.LicenseProperties{
 //     LicenseDetails: &armhybridcompute.LicenseDetails{
 //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //      AssignedLicenses: to.Ptr[int32](8),
 //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //      ImmutableID: to.Ptr("<generated Guid>"),
 //      Processors: to.Ptr[int32](6),
 //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //
     },
 //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //     TenantID: to.Ptr("{tenandId}"),
 //    },
 //  }},
 // }
 }
}
```

1.2368 github.com/golang-jwt/jwt/v5 5.2.1

1.2368.1 Available under license :

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1.2369 github.com/mdlayher/vsock 1.2.1

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1.2370 ip-address 9.0.5

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MIT

1.2371 github.com/fullstorydev/grpchan 1.1.1

1.2371.1 Available under license :

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Found in path(s):
* /opt/cola/permits/1946863833_1718083854.0716562/0/grpchan-tar/grpchan.txt

1.2372 github.com/grafana/prometheus-alertmanager 0.25.1-0.20240208102907-e82436ce63e6

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1.2373 grafana-dataplane-sdata 0.0.7

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1.2374 chromedp-cdproto 0.0.0-20230802225258-3cf4e6d46a89

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1.2375 mithrandie-ternary 1.1.1

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1.2376 spyzhov-ajson 0.9.0

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1.2377 mithrandie-go-text 1.5.4

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1.2378 grafana-pyroscope-go-godeltaprof 0.1.6

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1.2382 github.com/mithrandie/ternary 1.1.1

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1.2384 mithrandie-go-file 2.1.0

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1.2385 grafana-grafana-azure-sdk-go 1.12.0

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1.2389 github.com/mithrandie/csvq 1.17.10

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1.2390 github.com/spyzhov/ajson 0.9.0

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* /opt/cola/permits/1946863750_1718086998.352865/0/ajson-tar/ajson.txt

1.2391 github.com/grafana/sqlds/v3 3.2.0

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1.2392 github.com/microsoft/go-mssqldb 1.6.1-0.20240214161942-b65008136246

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1.2393 grafana-prometheus-alertmanager 0.25.1-0.20240208102907-e82436ce63e6

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1.2394 mithrandie-csvq 1.17.10

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* /opt/cola/permits/1946863821_1718081296.469373/0/cdproto-tar/cdproto.txt

1.2396 grafana-dskit 0.0.0-20240104111617-ea101a3b86eb

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* /opt/cola/permits/1946863574_1718088096.452126/0/dskit-tar/dskit.txt

1.2397 github.com/mithrandie/go-file/v2 2.1.0

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1.2398 github.com/mithrandie/csvq-driver 1.6.8

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1.2399 mithrandie-csvq-driver 1.6.8

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1.2400 httpfs 0.0.0-20230704072500-f1e31cf0ba5c

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1.2401 sqlite 3.45.2

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```
/*
** CAPI3REF: Configuration Options
** KEYWORDS: {configuration option}
**
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
```

```
**
** Most of the configuration options for sqlite3_config()
** will only work if invoked prior to [sqlite3_initialize()] or after
** [sqlite3_shutdown()].  The few exceptions to this rule are called
** "anytime configuration options".
** ^Calling [sqlite3_config()] with a first argument that is not an
** anytime configuration option in between calls to [sqlite3_initialize()] and
** [sqlite3_shutdown()] is a no-op that returns SQLITE_MISUSE.
**
** The set of anytime configuration options can change (by insertions
** and/or deletions) from one release of SQLite to the next.
** As of SQLite version 3.42.0, the complete set of anytime configuration
** options is:
** <ul>
** <li> SQLITE_CONFIG_LOG
**
 <li> SQLITE_CONFIG_PCACHE_HDRSZ
** </ul>
**
** New configuration options may be added in future releases of SQLite.
** Existing configuration options might be discontinued.  Applications
** should check the return code from [sqlite3_config()] to make sure that
** the call worked.  The [sqlite3_config()] interface will return a
** non-zero [error code] if a discontinued or unsupported configuration option
** is invoked.
**
** <dl>
** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Single-thread.  In other words, it disables
** all mutexing and puts SQLite into a mode where it can only be used
** by a single thread.   ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to change the [threading mode] from its default
** value of Single-thread and so [sqlite3_config()] will return
** [SQLITE_ERROR] if called
 with the SQLITE_CONFIG_SINGLETHREAD
** configuration option.</dd>
**
** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Multi-thread.  In other words, it disables
** mutexing on [database connection] and [prepared statement] objects.
** The application is responsible for serializing access to
** [database connections] and [prepared statements].  But other mutexes
** are enabled so that SQLite will be safe to use in a multi-threaded
** environment as long as no two threads attempt to use the same
** [database connection] at the same time.  ^If SQLite is compiled with
```

```
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Multi-thread [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>
**
** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
**
 <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Serialized. In other words, this option enables
** all mutexes including the recursive
** mutexes on [database connection] and [prepared statement] objects.
** In this mode (which is the default when SQLite is compiled with
** [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access
** to [database connections] and [prepared statements] so that the
** application is free to use the same [database connection] or the
** same [prepared statement] in different threads at the same time.
** ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Serialized [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_SERIALIZED configuration option.</dd>
**
** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_MALLOC option
 takes a single argument which is
** a pointer to an instance of the [sqlite3_mem_methods] structure.
** The argument specifies
** alternative low-level memory allocation routines to be used in place of
** the memory allocation routines built into SQLite.)^ ^SQLite makes
** its own private copy of the content of the [sqlite3_mem_methods] structure
** before the [sqlite3_config()] call returns.</dd>
**
** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_GETMALLOC option takes a single argument which
** is a pointer to an instance of the [sqlite3_mem_methods] structure.
** The [sqlite3_mem_methods]
** structure is filled with the currently defined memory allocation routines.)^
** This option can be used to overload the default memory allocation
** routines with a wrapper that simulations memory allocation failure or
** tracks memory usage, for example. </dd>
**
** [[SQLITE_CONFIG_SMALL_MALLOC]] <dt>SQLITE_CONFIG_SMALL_MALLOC</dt>
** <dd> ^The SQLITE_CONFIG_SMALL_MALLOC
 option takes single argument of
** type int, interpreted as a boolean, which if true provides a hint to
** SQLite that it should avoid large memory allocations if possible.
** SQLite will run faster if it is free to make large memory allocations,
** but some application might prefer to run slower in exchange for
```

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** guarantees about memory fragmentation that are possible if large
** allocations are avoided.  This hint is normally off.
** </dd>
**
** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
** <dd> ^The SQLITE_CONFIG_MEMSTATUS option takes single argument of type int,
** interpreted as a boolean, which enables or disables the collection of
** memory allocation statistics. ^(When memory allocation statistics are
** disabled, the following SQLite interfaces become non-operational:
**   <ul>
**   <li> [sqlite3_hard_heap_limit64()]
**   <li> [sqlite3_memory_used()]
**   <li> [sqlite3_memory_highwater()]
**   <li> [sqlite3_soft_heap_limit64()]
**
   <li> [sqlite3_status64()]
**   </ul>)^
** ^Memory allocation statistics are enabled by default unless SQLite is
** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory
** allocation statistics are disabled by default.
** </dd>
**
** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>
** <dd> The SQLITE_CONFIG_SCRATCH option is no longer used.
** </dd>
**
** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd> ^The SQLITE_CONFIG_PAGECACHE option specifies a memory pool
** that SQLite can use for the database page cache with the default page
** cache implementation.
** This configuration option is a no-op if an application-defined page
** cache implementation is loaded using the [SQLITE_CONFIG_PCACHE2].
** ^There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to
** 8-byte aligned memory (pMem), the size of each page cache line (sz),
** and the number of cache lines (N).
** The sz argument should be the size of the largest database page
** (a power
 of two between 512 and 65536) plus some extra bytes for each
** page header.  ^The number of extra bytes needed by the page header
** can be determined using [SQLITE_CONFIG_PCACHE_HDRSZ].
** ^It is harmless, apart from the wasted memory,
** for the sz parameter to be larger than necessary.  The pMem
** argument must be either a NULL pointer or a pointer to an 8-byte
** aligned block of memory of at least sz*N bytes, otherwise
** subsequent behavior is undefined.
** ^When pMem is not NULL, SQLite will strive to use the memory provided
** to satisfy page cache needs, falling back to [sqlite3_malloc()] if
** a page cache line is larger than sz bytes or if all of the pMem buffer
```

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** is exhausted.
** ^If pMem is NULL and N is non-zero, then each database connection
** does an initial bulk allocation for page cache memory
** from [sqlite3_malloc()] sufficient for N cache lines if N is positive or
** of -1024*N bytes if N is negative, . ^If additional
** page cache memory is needed beyond
 what is provided by the initial
** allocation, then SQLite goes to [sqlite3_malloc()] separately for each
** additional cache line. </dd>
**
** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
** <dd> ^The SQLITE_CONFIG_HEAP option specifies a static memory buffer
** that SQLite will use for all of its dynamic memory allocation needs
** beyond those provided for by [SQLITE_CONFIG_PAGECACHE].
** ^The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled
** with either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns
** [SQLITE_ERROR] if invoked otherwise.
** ^There are three arguments to SQLITE_CONFIG_HEAP:
** An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum allocation size.
** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC].  ^If the
** memory pointer
 is not NULL then the alternative memory
** allocator is engaged to handle all of SQLites memory allocation needs.
** The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** The minimum allocation size is capped at 2**12. Reasonable values
** for the minimum allocation size are 2**5 through 2**8.</dd>
**
** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_MUTEX option takes a single argument which is a
** pointer to an instance of the [sqlite3_mutex_methods] structure.
** The argument specifies alternative low-level mutex routines to be used
** in place the mutex routines built into SQLite.)^  ^SQLite makes a copy of
** the content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()] returns. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the
 build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_GETMUTEX option takes a single argument which
** is a pointer to an instance of the [sqlite3_mutex_methods] structure.  The
** [sqlite3_mutex_methods]
```

```
** structure is filled with the currently defined mutex routines.)^
** This option can be used to overload the default mutex allocation
** routines with a wrapper used to track mutex usage for performance
** profiling or testing, for example.   ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
** <dd> ^(The SQLITE_CONFIG_LOOKASIDE
 option takes two arguments that determine
** the default size of lookaside memory on each [database connection].
** The first argument is the
** size of each lookaside buffer slot and the second is the number of
** slots allocated to each database connection.)^  ^(SQLITE_CONFIG_LOOKASIDE
** sets the <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** option to [sqlite3_db_config()] can be used to change the lookaside
** configuration on individual connections.)^ </dd>
**
** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_PCACHE2 option takes a single argument which is
** a pointer to an [sqlite3_pcache_methods2] object.  This object specifies
** the interface to a custom page cache implementation.)^
** ^SQLite makes a copy of the [sqlite3_pcache_methods2] object.</dd>
**
** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_GETPCACHE2 option takes a single argument which
** is
 a pointer to an [sqlite3_pcache_methods2] object.  SQLite copies of
** the current page cache implementation into that object.)^ </dd>
**
** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
** global [error log].
** (^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
** function with a call signature of void(*)(void*,int,const char*),
** and a pointer to void. ^If the function pointer is not NULL, it is
** invoked by [sqlite3_log()] to process each logging event.  ^If the
** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is
** passed through as the first parameter to the application-defined logger
** function whenever that function is invoked.  ^The second parameter to
** the logger function is a copy of the first parameter to the corresponding
** [sqlite3_log()] call and is intended to be a [result code] or
 an
** [extended result code].  ^The third parameter passed to the logger is
** log message after formatting via [sqlite3_snprintf()].
```

```
** The SQLite logging interface is not reentrant; the logger function
** supplied by the application must not invoke any SQLite interface.
** In a multi-threaded application, the application-defined logger
** function must be threadsafe. </dd>
**
** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI
** <dd>^(The SQLITE_CONFIG_URI option takes a single argument of type int.
** If non-zero, then URI handling is globally enabled. If the parameter is zero,
** then URI handling is globally disabled.)^ ^If URI handling is globally
** enabled, all filenames passed to [sqlite3_open()], [sqlite3_open_v2()],
** [sqlite3_open16()] or
** specified as part of [ATTACH] commands are interpreted as URIs, regardless
** of whether or not the [SQLITE_OPEN_URI] flag is set when the database
** connection is opened. ^If it is globally disabled, filenames are
** only interpreted as
 URIs if the SQLITE_OPEN_URI flag is set when the
** database connection is opened. ^(By default, URI handling is globally
** disabled. The default value may be changed by compiling with the
** [SQLITE_USE_URI] symbol defined.)^
**
** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN
** <dd>^The SQLITE_CONFIG_COVERING_INDEX_SCAN option takes a single integer
** argument which is interpreted as a boolean in order to enable or disable
** the use of covering indices for full table scans in the query optimizer.
** ^The default setting is determined
** by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"
** if that compile-time option is omitted.
** The ability to disable the use of covering indices for full table scans
** is because some incorrectly coded legacy applications might malfunction
** when the optimization is enabled.  Providing the ability to
** disable the optimization allows the older, buggy application code to work
** without change
 even with newer versions of SQLite.
**
** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]
** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
** <dd> These options are obsolete and should not be used by new code.
** They are retained for backwards compatibility but are now no-ops.
** </dd>
**
** [[SQLITE_CONFIG_SQLLOG]]
** <dt>SQLITE_CONFIG_SQLLOG
** <dd>This option is only available if sqlite is compiled with the
** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
** be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).
** The second should be of type (void*). The callback is invoked by the library
** in three separate circumstances, identified by the value passed as the
** fourth parameter. If the fourth parameter is 0, then the database connection
```

** passed as the second argument has just been opened. The third argument
** points to a buffer containing the name of the main database file. If the
** fourth parameter is 1,
 then the SQL statement that the third parameter
** points to has just been executed. Or, if the fourth parameter is 2, then
** the connection being passed as the second parameter is being closed. The
** third parameter is passed NULL In this case. An example of using this
** configuration option can be seen in the "test_sqllog.c" source file in
** the canonical SQLite source tree.</dd>
**
** [[SQLITE_CONFIG_MMAP_SIZE]]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd>^SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** ^The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control. ^(The maximum allowed mmap size
** will be silently truncated if necessary so that it does not exceed the
** compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE]
 compile-time option.)^
** ^If either argument to this option is negative, then that argument is
** changed to its compile-time default.
**
** [[SQLITE_CONFIG_WIN32_HEAPSIZE]]
** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE
** <dd>^The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is
** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
** defined. ^SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
** that specifies the maximum size of the created heap.
**
** [[SQLITE_CONFIG_PCACHE_HDRSZ]]
** <dt>SQLITE_CONFIG_PCACHE_HDRSZ
** <dd>^The SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which
** is a pointer to an integer and writes into that integer the number of extra
** bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
** The amount of extra space required can change depending on the compiler,
** target platform, and SQLite version.
**
** [[SQLITE_CONFIG_PMASZ]]
** <dt>SQLITE_CONFIG_PMASZ
** <dd>^The
 SQLITE_CONFIG_PMASZ option takes a single parameter which
** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded
** sorter to that integer. The default minimum PMA Size is set by the
** [SQLITE_SORTER_PMASZ] compile-time option. New threads are launched
** to help with sort operations when multithreaded sorting

```
** is enabled (using the [PRAGMA threads] command) and the amount of content
** to be sorted exceeds the page size times the minimum of the
** [PRAGMA cache_size] setting and this value.
**
** [[SQLITE_CONFIG_STMTJRNL_SPILL]]
** <dt>SQLITE_CONFIG_STMTJRNL_SPILL
** <dd>^The SQLITE_CONFIG_STMTJRNL_SPILL option takes a single parameter which
** becomes the [statement journal] spill-to-disk threshold.
** [Statement journals] are held in memory until their size (in bytes)
** exceeds this threshold, at which point they are written to disk.
** Or if the threshold is -1, statement journals are always held
** exclusively in memory.
** Since many statement journals
 never become large, setting the spill
** threshold to a value such as 64KiB can greatly reduce the amount of
** I/O required to support statement rollback.
** The default value for this setting is controlled by the
** [SQLITE_STMTJRNL_SPILL] compile-time option.
**
** [[SQLITE_CONFIG_SORTERREF_SIZE]]
** <dt>SQLITE_CONFIG_SORTERREF_SIZE
** <dd>The SQLITE_CONFIG_SORTERREF_SIZE option accepts a single parameter
** of type (int) - the new value of the sorter-reference size threshold.
** Usually, when SQLite uses an external sort to order records according
** to an ORDER BY clause, all fields required by the caller are present in the
** sorted records. However, if SQLite determines based on the declared type
** of a table column that its values are likely to be very large - larger
** than the configured sorter-reference size threshold - then a reference
** is stored in each sorted record and the required column values loaded
** from the database as records are returned in sorted order.
 The default
** value for this option is to never use this optimization. Specifying a
** negative value for this option restores the default behavior.
** This option is only available if SQLite is compiled with the
** [SQLITE_ENABLE_SORTER_REFERENCES] compile-time option.
**
** [[SQLITE_CONFIG_MEMDB_MAXSIZE]]
** <dt>SQLITE_CONFIG_MEMDB_MAXSIZE
** <dd>The SQLITE_CONFIG_MEMDB_MAXSIZE option accepts a single parameter
** [sqlite3_int64] parameter which is the default maximum size for an in-memory
** database created using [sqlite3_deserialize()].  This default maximum
** size can be adjusted up or down for individual databases using the
** [SQLITE_FCNTL_SIZE_LIMIT] [sqlite3_file_control|file-control].  If this
** configuration setting is never used, then the default maximum is determined
** by the [SQLITE_MEMDB_DEFAULT_MAXSIZE] compile-time option.  If that
** compile-time option is not set, then the default maximum is 1073741824.
** </dl>
*/
```

```
/*
** The "printf" code that follows dates
 from the 1980's.  It is in
** the public domain.
**
**************************************************************************
**
** This file contains code for a set of "printf"-like routines.  These
** routines format strings much like the printf() from the standard C
** library, though the implementation here has enhancements to support
** SQLite.
*/
/*
** 2004 May 22
**
** The author disclaims copyright to this source code.  In place of
** a legal notice, here is a blessing:
**
**    May you do good and not evil.
**    May you find forgiveness for yourself and forgive others.
**    May you share freely, never taking more than you give.
**
***************************************************************************
**
** This file contains the VFS implementation for unix-like operating systems
** include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.
**
** There are actually several different VFS implementations in this file.
** The differences are in the way that file
 locking is done.  The default
** implementation uses Posix Advisory Locks.  Alternative implementations
** use flock(), dot-files, various proprietary locking schemas, or simply
** skip locking all together.
**
** This source file is organized into divisions where the logic for various
** subfunctions is contained within the appropriate division.  PLEASE
** KEEP THE STRUCTURE OF THIS FILE INTACT.  New code should be placed
** in the correct division and should be clearly labelled.
**
** The layout of divisions is as follows:
**
**   *  General-purpose declarations and utility functions.
**   *  Unique file ID logic used by VxWorks.
**   *  Various locking primitive implementations (all except proxy locking):
**      + for Posix Advisory Locks
**      + for no-op locks
**      + for dot-file locks
**      + for flock() locking
```

```
**      + for named semaphore locks (VxWorks only)
**      + for AFP filesystem locks (MacOSX only)
**   *  sqlite3_file methods not associated with locking.
**
  *  Definitions of sqlite3_io_methods objects for all locking
**      methods plus "finder" functions for each locking method.
**   *  sqlite3_vfs method implementations.
**   *  Locking primitives for the proxy uber-locking-method. (MacOSX only)
**   *  Definitions of sqlite3_vfs objects for all locking methods
**      plus implementations of sqlite3_os_init() and sqlite3_os_end().
*/
/*
** Return a pointer to the "temporary page" buffer held internally
** by the pager.  This is a buffer that is big enough to hold the
** entire content of a database page.  This buffer is used internally
** during rollback and will be overwritten whenever a rollback
** occurs.  But other modules are free to use it too, as long as
** no rollbacks are happening.
*/
```

Found in path(s):
* /opt/cola/permits/1949311916_1712730307.3400743/0/sqlite-amalgamation-3450200-zip/sqlite-amalgamation-3450200/sqlite3.c
No license file was found, but licenses were detected in source scan.

```
/*
** 2022-11-18
**
** The author disclaims copyright to this source code.  In place of
** a legal notice, here is a blessing:
**
**    May you do good and not evil.
**    May you find forgiveness for yourself and forgive others.
**    May you share freely, never taking more than you give.
**
***************************************************************************
**
** This is a SQLite extension for converting in either direction
** between a (binary) blob and base64 text. Base64 can transit a
** sane USASCII channel unmolested. It also plays nicely in CSV or
** written as TCL brace-enclosed literals or SQL string literals,
** and can be used unmodified in XML-like documents.
**
** This is an independent implementation of conversions specified in
** RFC 4648, done on the above date by the author (Larry Brasfield)
** who thereby has the right to put this into the public domain.
**
** The conversions meet RFC 4648 requirements,
```

```
 provided that this
** C source specifies that line-feeds are included in the encoded
** data to limit visible line lengths to 72 characters and to
** terminate any encoded blob having non-zero length.
**
** Length limitations are not imposed except that the runtime
** SQLite string or blob length limits are respected. Otherwise,
** any length binary sequence can be represented and recovered.
** Generated base64 sequences, with their line-feeds included,
** can be concatenated; the result converted back to binary will
** be the concatenation of the represented binary sequences.
**
** This SQLite3 extension creates a function, base64(x), which
** either: converts text x containing base64 to a returned blob;
** or converts a blob x to returned text containing base64. An
** error will be thrown for other input argument types.
**
** This code relies on UTF-8 encoding only with respect to the
** meaning of the first 128 (7-bit) codes matching that of USASCII.
** It will fail miserably
 if somehow made to try to convert EBCDIC.
** Because it is table-driven, it could be enhanced to handle that,
** but the world and SQLite have moved on from that anachronism.
**
** To build the extension:
** Set shell variable SQDIR=<your favorite SQLite checkout directory>
** *Nix: gcc -O2 -shared -I$SQDIR -fPIC -o base64.so base64.c
** OSX: gcc -O2 -dynamiclib -fPIC -I$SQDIR -o base64.dylib base64.c
** Win32: gcc -O2 -shared -I%SQDIR% -o base64.dll base64.c
** Win32: cl /Os -I%SQDIR% base64.c -link -dll -out:base64.dll
*/
/*
** 2022-11-16
**
** The author disclaims copyright to this source code.  In place of
** a legal notice, here is a blessing:
**
**    May you do good and not evil.
**    May you find forgiveness for yourself and forgive others.
**    May you share freely, never taking more than you give.
**
***************************************************************************
**
** This is a utility for converting binary to base85 or vice-versa.
** It can be built as a standalone
 program or an SQLite3 extension.
**
** Much like base64 representations, base85 can be sent through a
```

```
** sane USASCII channel unmolested. It also plays nicely in CSV or
** written as TCL brace-enclosed literals or SQL string literals.
** It is not suited for unmodified use in XML-like documents.
**
** The encoding used resembles Ascii85, but was devised by the author
** (Larry Brasfield) before Mozilla, Adobe, ZMODEM or other Ascii85
** variant sources existed, in the 1984 timeframe on a VAX mainframe.
** Further, this is an independent implementation of a base85 system.
** Hence, the author has rightfully put this into the public domain.
**
** Base85 numerals are taken from the set of 7-bit USASCII codes,
** excluding control characters and Space ! " ' ( ) { | } ~ Del
** in code order representing digit values 0 to 84 (base 10.)
**
** Groups of 4 bytes, interpreted as big-endian 32-bit values,
** are represented as 5-digit base85 numbers with MS to LS digit
** order. Groups
 of 1-3 bytes are represented with 2-4 digits,
** still big-endian but 8-24 bit values. (Using big-endian yields
** the simplest transition to byte groups smaller than 4 bytes.
** These byte groups can also be considered base-256 numbers.)
** Groups of 0 bytes are represented with 0 digits and vice-versa.
** No pad characters are used; Encoded base85 numeral sequence
** (aka "group") length maps 1-to-1 to the decoded binary length.
**
** Any character not in the base85 numeral set delimits groups.
** When base85 is streamed or stored in containers of indefinite
** size, newline is used to separate it into sub-sequences of no
** more than 80 digits so that fgets() can be used to read it.
**
** Length limitations are not imposed except that the runtime
** SQLite string or blob length limits are respected. Otherwise,
** any length binary sequence can be represented and recovered.
** Base85 sequences can be concatenated by separating them with
** a non-base85 character; the conversion to binary
 will then
** be the concatenation of the represented binary sequences.

** The standalone program either converts base85 on stdin to create
** a binary file or converts a binary file to base85 on stdout.
** Read or make it blurt its help for invocation details.
**
** The SQLite3 extension creates a function, base85(x), which will
** either convert text base85 to a blob or a blob to text base85
** and return the result (or throw an error for other types.)
** Unless built with OMIT_BASE85_CHECKER defined, it also creates a
** function, is_base85(t), which returns 1 iff the text t contains
** nothing other than base85 numerals and whitespace, or 0 otherwise.
```

```
**
** To build the extension:
** Set shell variable SQDIR=<your favorite SQLite checkout directory>
** and variable OPTS to -DOMIT_BASE85_CHECKER if is_base85() unwanted.
** *Nix: gcc -O2 -shared -I$SQDIR $OPTS -fPIC -o base85.so base85.c
** OSX: gcc -O2 -dynamiclib -fPIC -I$SQDIR $OPTS -o base85.dylib base85.c
** Win32: gcc -O2
 -shared -I%SQDIR% %OPTS% -o base85.dll base85.c
** Win32: cl /Os -I%SQDIR% %OPTS% base85.c -link -dll -out:base85.dll
**
** To build the standalone program, define PP symbol BASE85_STANDALONE. Eg.
** *Nix or OSX: gcc -O2 -DBASE85_STANDALONE base85.c -o base85
** Win32: gcc -O2 -DBASE85_STANDALONE -o base85.exe base85.c
** Win32: cl /Os /MD -DBASE85_STANDALONE base85.c
*/
/* This will be more informative in a later version. */
```

Found in path(s):
* /opt/cola/permits/1949311916_1712730307.3400743/0/sqlite-amalgamation-3450200-zip/sqlite-amalgamation-3450200/shell.c
No license file was found, but licenses were detected in source scan.

```
/*
** CAPI3REF: Configuration Options
** KEYWORDS: {configuration option}
**
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
**
** Most of the configuration options for sqlite3_config()
** will only work if invoked prior to [sqlite3_initialize()] or after
** [sqlite3_shutdown()].  The few exceptions to this rule are called
** "anytime configuration options".
** ^Calling [sqlite3_config()] with a first argument that is not an
** anytime configuration option in between calls to [sqlite3_initialize()] and
** [sqlite3_shutdown()] is a no-op that returns SQLITE_MISUSE.
**
** The set of anytime configuration options can change (by insertions
** and/or deletions) from one release of SQLite to the next.
** As of SQLite version 3.42.0, the complete set of anytime configuration
** options is:
** <ul>
** <li> SQLITE_CONFIG_LOG
**
 <li> SQLITE_CONFIG_PCACHE_HDRSZ
** </ul>
**
** New configuration options may be added in future releases of SQLite.
```

```
** Existing configuration options might be discontinued.  Applications
** should check the return code from [sqlite3_config()] to make sure that
** the call worked.  The [sqlite3_config()] interface will return a
** non-zero [error code] if a discontinued or unsupported configuration option
** is invoked.
**
** <dl>
** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Single-thread.  In other words, it disables
** all mutexing and puts SQLite into a mode where it can only be used
** by a single thread.   ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to change the [threading mode] from its default
** value of Single-thread and so [sqlite3_config()] will return
** [SQLITE_ERROR] if called
 with the SQLITE_CONFIG_SINGLETHREAD
** configuration option.</dd>
**
** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Multi-thread.  In other words, it disables
** mutexing on [database connection] and [prepared statement] objects.
** The application is responsible for serializing access to
** [database connections] and [prepared statements].  But other mutexes
** are enabled so that SQLite will be safe to use in a multi-threaded
** environment as long as no two threads attempt to use the same
** [database connection] at the same time.  ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Multi-thread [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>
**
** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
**
 <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Serialized. In other words, this option enables
** all mutexes including the recursive
** mutexes on [database connection] and [prepared statement] objects.
** In this mode (which is the default when SQLite is compiled with
** [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access
** to [database connections] and [prepared statements] so that the
** application is free to use the same [database connection] or the
** same [prepared statement] in different threads at the same time.
** ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Serialized [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
```

```
** SQLITE_CONFIG_SERIALIZED configuration option.</dd>
**
** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_MALLOC option
 takes a single argument which is
** a pointer to an instance of the [sqlite3_mem_methods] structure.
** The argument specifies
** alternative low-level memory allocation routines to be used in place of
** the memory allocation routines built into SQLite.)^ ^SQLite makes
** its own private copy of the content of the [sqlite3_mem_methods] structure
** before the [sqlite3_config()] call returns.</dd>
**
** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_GETMALLOC option takes a single argument which
** is a pointer to an instance of the [sqlite3_mem_methods] structure.
** The [sqlite3_mem_methods]
** structure is filled with the currently defined memory allocation routines.)^
** This option can be used to overload the default memory allocation
** routines with a wrapper that simulations memory allocation failure or
** tracks memory usage, for example. </dd>
**
** [[SQLITE_CONFIG_SMALL_MALLOC]] <dt>SQLITE_CONFIG_SMALL_MALLOC</dt>
** <dd> ^The SQLITE_CONFIG_SMALL_MALLOC
 option takes single argument of
** type int, interpreted as a boolean, which if true provides a hint to
** SQLite that it should avoid large memory allocations if possible.
** SQLite will run faster if it is free to make large memory allocations,
** but some application might prefer to run slower in exchange for
** guarantees about memory fragmentation that are possible if large
** allocations are avoided.  This hint is normally off.
** </dd>
**
** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
** <dd> ^The SQLITE_CONFIG_MEMSTATUS option takes single argument of type int,
** interpreted as a boolean, which enables or disables the collection of
** memory allocation statistics. ^(When memory allocation statistics are
** disabled, the following SQLite interfaces become non-operational:
**   <ul>
**   <li> [sqlite3_hard_heap_limit64()]
**   <li> [sqlite3_memory_used()]
**   <li> [sqlite3_memory_highwater()]
**   <li> [sqlite3_soft_heap_limit64()]
**
   <li> [sqlite3_status64()]
**   </ul>)^
** ^Memory allocation statistics are enabled by default unless SQLite is
** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory
** allocation statistics are disabled by default.
```

```
** </dd>
**
** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>
** <dd> The SQLITE_CONFIG_SCRATCH option is no longer used.
** </dd>
**
** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd> ^The SQLITE_CONFIG_PAGECACHE option specifies a memory pool
** that SQLite can use for the database page cache with the default page
** cache implementation.
** This configuration option is a no-op if an application-defined page
** cache implementation is loaded using the [SQLITE_CONFIG_PCACHE2].
** ^There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to
** 8-byte aligned memory (pMem), the size of each page cache line (sz),
** and the number of cache lines (N).
** The sz argument should be the size of the largest database page
** (a power
 of two between 512 and 65536) plus some extra bytes for each
** page header.  ^The number of extra bytes needed by the page header
** can be determined using [SQLITE_CONFIG_PCACHE_HDRSZ].
** ^It is harmless, apart from the wasted memory,
** for the sz parameter to be larger than necessary.  The pMem
** argument must be either a NULL pointer or a pointer to an 8-byte
** aligned block of memory of at least sz*N bytes, otherwise
** subsequent behavior is undefined.
** ^When pMem is not NULL, SQLite will strive to use the memory provided
** to satisfy page cache needs, falling back to [sqlite3_malloc()] if
** a page cache line is larger than sz bytes or if all of the pMem buffer
** is exhausted.
** ^If pMem is NULL and N is non-zero, then each database connection
** does an initial bulk allocation for page cache memory
** from [sqlite3_malloc()] sufficient for N cache lines if N is positive or
** of -1024*N bytes if N is negative, . ^If additional
** page cache memory is needed beyond
 what is provided by the initial
** allocation, then SQLite goes to [sqlite3_malloc()] separately for each
** additional cache line. </dd>
**
** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
** <dd> ^The SQLITE_CONFIG_HEAP option specifies a static memory buffer
** that SQLite will use for all of its dynamic memory allocation needs
** beyond those provided for by [SQLITE_CONFIG_PAGECACHE].
** ^The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled
** with either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns
** [SQLITE_ERROR] if invoked otherwise.
** ^There are three arguments to SQLITE_CONFIG_HEAP:
** An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum allocation size.
```

```
** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC].  ^If the
** memory pointer
 is not NULL then the alternative memory
** allocator is engaged to handle all of SQLites memory allocation needs.
** The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** The minimum allocation size is capped at 2**12. Reasonable values
** for the minimum allocation size are 2**5 through 2**8.</dd>
**
** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_MUTEX option takes a single argument which is a
** pointer to an instance of the [sqlite3_mutex_methods] structure.
** The argument specifies alternative low-level mutex routines to be used
** in place the mutex routines built into SQLite.)^  ^SQLite makes a copy of
** the content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()] returns. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the
 build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_GETMUTEX option takes a single argument which
** is a pointer to an instance of the [sqlite3_mutex_methods] structure.  The
** [sqlite3_mutex_methods]
** structure is filled with the currently defined mutex routines.)^
** This option can be used to overload the default mutex allocation
** routines with a wrapper used to track mutex usage for performance
** profiling or testing, for example.   ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
** <dd> ^(The SQLITE_CONFIG_LOOKASIDE
 option takes two arguments that determine
** the default size of lookaside memory on each [database connection].
** The first argument is the
** size of each lookaside buffer slot and the second is the number of
** slots allocated to each database connection.)^  ^(SQLITE_CONFIG_LOOKASIDE
** sets the <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** option to [sqlite3_db_config()] can be used to change the lookaside
** configuration on individual connections.)^ </dd>
**
```

```
** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_PCACHE2 option takes a single argument which is
** a pointer to an [sqlite3_pcache_methods2] object.  This object specifies
** the interface to a custom page cache implementation.)^
** ^SQLite makes a copy of the [sqlite3_pcache_methods2] object.</dd>
**
** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_GETPCACHE2 option takes a single argument which
** is
 a pointer to an [sqlite3_pcache_methods2] object.  SQLite copies of
** the current page cache implementation into that object.)^ </dd>
**
** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
** global [error log].
** (^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
** function with a call signature of void(*)(void*,int,const char*),
** and a pointer to void. ^If the function pointer is not NULL, it is
** invoked by [sqlite3_log()] to process each logging event.  ^If the
** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is
** passed through as the first parameter to the application-defined logger
** function whenever that function is invoked.  ^The second parameter to
** the logger function is a copy of the first parameter to the corresponding
** [sqlite3_log()] call and is intended to be a [result code] or
 an
** [extended result code].  ^The third parameter passed to the logger is
** log message after formatting via [sqlite3_snprintf()].
** The SQLite logging interface is not reentrant; the logger function
** supplied by the application must not invoke any SQLite interface.
** In a multi-threaded application, the application-defined logger
** function must be threadsafe. </dd>
**
** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI
** <dd>^(The SQLITE_CONFIG_URI option takes a single argument of type int.
** If non-zero, then URI handling is globally enabled. If the parameter is zero,
** then URI handling is globally disabled.)^ ^If URI handling is globally
** enabled, all filenames passed to [sqlite3_open()], [sqlite3_open_v2()],
** [sqlite3_open16()] or
** specified as part of [ATTACH] commands are interpreted as URIs, regardless
** of whether or not the [SQLITE_OPEN_URI] flag is set when the database
** connection is opened. ^If it is globally disabled, filenames are
** only interpreted as
 URIs if the SQLITE_OPEN_URI flag is set when the
** database connection is opened. ^(By default, URI handling is globally
** disabled. The default value may be changed by compiling with the
** [SQLITE_USE_URI] symbol defined.)^
**
```

```
** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN
** <dd>^The SQLITE_CONFIG_COVERING_INDEX_SCAN option takes a single integer
** argument which is interpreted as a boolean in order to enable or disable
** the use of covering indices for full table scans in the query optimizer.
** ^The default setting is determined
** by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"
** if that compile-time option is omitted.
** The ability to disable the use of covering indices for full table scans
** is because some incorrectly coded legacy applications might malfunction
** when the optimization is enabled.  Providing the ability to
** disable the optimization allows the older, buggy application code to work
** without change
 even with newer versions of SQLite.
**
** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]
** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
** <dd> These options are obsolete and should not be used by new code.
** They are retained for backwards compatibility but are now no-ops.
** </dd>
**
** [[SQLITE_CONFIG_SQLLOG]]
** <dt>SQLITE_CONFIG_SQLLOG
** <dd>This option is only available if sqlite is compiled with the
** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
** be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).
** The second should be of type (void*). The callback is invoked by the library
** in three separate circumstances, identified by the value passed as the
** fourth parameter. If the fourth parameter is 0, then the database connection
** passed as the second argument has just been opened. The third argument
** points to a buffer containing the name of the main database file. If the
** fourth parameter is 1,
 then the SQL statement that the third parameter
** points to has just been executed. Or, if the fourth parameter is 2, then
** the connection being passed as the second parameter is being closed. The
** third parameter is passed NULL In this case.  An example of using this
** configuration option can be seen in the "test_sqllog.c" source file in
** the canonical SQLite source tree.</dd>
**
** [[SQLITE_CONFIG_MMAP_SIZE]]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd>^SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** ^The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control.  ^(The maximum allowed mmap size
** will be silently truncated if necessary so that it does not exceed the
** compile-time maximum mmap size set by the
```

```
** [SQLITE_MAX_MMAP_SIZE]
 compile-time option.)^
** ^If either argument to this option is negative, then that argument is
** changed to its compile-time default.
**
** [[SQLITE_CONFIG_WIN32_HEAPSIZE]]
** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE
** <dd>^The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is
** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
** defined. ^SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
** that specifies the maximum size of the created heap.
**
** [[SQLITE_CONFIG_PCACHE_HDRSZ]]
** <dt>SQLITE_CONFIG_PCACHE_HDRSZ
** <dd>^The SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which
** is a pointer to an integer and writes into that integer the number of extra
** bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
** The amount of extra space required can change depending on the compiler,
** target platform, and SQLite version.
**
** [[SQLITE_CONFIG_PMASZ]]
** <dt>SQLITE_CONFIG_PMASZ
** <dd>^The
 SQLITE_CONFIG_PMASZ option takes a single parameter which
** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded
** sorter to that integer.  The default minimum PMA Size is set by the
** [SQLITE_SORTER_PMASZ] compile-time option.  New threads are launched
** to help with sort operations when multithreaded sorting
** is enabled (using the [PRAGMA threads] command) and the amount of content
** to be sorted exceeds the page size times the minimum of the
** [PRAGMA cache_size] setting and this value.
**
** [[SQLITE_CONFIG_STMTJRNL_SPILL]]
** <dt>SQLITE_CONFIG_STMTJRNL_SPILL
** <dd>^The SQLITE_CONFIG_STMTJRNL_SPILL option takes a single parameter which
** becomes the [statement journal] spill-to-disk threshold.
** [Statement journals] are held in memory until their size (in bytes)
** exceeds this threshold, at which point they are written to disk.
** Or if the threshold is -1, statement journals are always held
** exclusively in memory.
** Since many statement journals
 never become large, setting the spill
** threshold to a value such as 64KiB can greatly reduce the amount of
** I/O required to support statement rollback.
** The default value for this setting is controlled by the
** [SQLITE_STMTJRNL_SPILL] compile-time option.
**
** [[SQLITE_CONFIG_SORTERREF_SIZE]]
```

** <dt>SQLITE_CONFIG_SORTERREF_SIZE
** <dd>The SQLITE_CONFIG_SORTERREF_SIZE option accepts a single parameter
** of type (int) - the new value of the sorter-reference size threshold.
** Usually, when SQLite uses an external sort to order records according
** to an ORDER BY clause, all fields required by the caller are present in the
** sorted records. However, if SQLite determines based on the declared type
** of a table column that its values are likely to be very large - larger
** than the configured sorter-reference size threshold - then a reference
** is stored in each sorted record and the required column values loaded
** from the database as records are returned in sorted order.
 The default
** value for this option is to never use this optimization. Specifying a
** negative value for this option restores the default behavior.
** This option is only available if SQLite is compiled with the
** [SQLITE_ENABLE_SORTER_REFERENCES] compile-time option.
**
** [[SQLITE_CONFIG_MEMDB_MAXSIZE]]
** <dt>SQLITE_CONFIG_MEMDB_MAXSIZE
** <dd>The SQLITE_CONFIG_MEMDB_MAXSIZE option accepts a single parameter
** [sqlite3_int64] parameter which is the default maximum size for an in-memory
** database created using [sqlite3_deserialize()]. This default maximum
** size can be adjusted up or down for individual databases using the
** [SQLITE_FCNTL_SIZE_LIMIT] [sqlite3_file_control|file-control]. If this
** configuration setting is never used, then the default maximum is determined
** by the [SQLITE_MEMDB_DEFAULT_MAXSIZE] compile-time option. If that
** compile-time option is not set, then the default maximum is 1073741824.
** </dl>
*/

Found in path(s):
* /opt/cola/permits/1949311916_1712730307.3400743/0/sqlite-amalgamation-3450200-zip/sqlite-amalgamation-3450200/sqlite3.h

1.2402 x-crypto v0.21.0

1.2402.1 Available under license :

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1.2403 hashicorp-consul-api 1.28.2

1.2403.1 Available under license :

---
layout: api
page_title: License - Operator - HTTP API
description: |-
 The /operator/license endpoint allows for retrieving the Consul
 Enterprise License.

License - Operator HTTP API

<EnterpriseAlert />

The licensing functionality described here is available only in
[Consul Enterprise](https://www.hashicorp.com/products/consul/) version 1.1.0 and later.

Getting the Consul License

This endpoint gets information about the current license.

Method	Path	Produces
`GET`	`/operator/license`	`application/json`

The table below shows this endpoint's support for
[blocking queries](/consul/api-docs/features/blocking),
[consistency modes](/consul/api-docs/features/consistency),

[agent caching](/consul/api-docs/features/caching), and
[required ACLs](/consul/api-docs/api-structure#authentication).

| Blocking Queries | Consistency Modes | Agent Caching | ACL Required |
| ----------------
 | ---------- | ---------- | ---------- |
| `NO` | `all` | `none` | `none` |

The corresponding CLI command is [`consul license get`](/consul/commands/license#get).

Query Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be retrieved.
 This will default to the datacenter of the agent serving the HTTP request.

Sample Request

```shell-session
$ curl \
  http://127.0.0.1:8500/v1/operator/license
```

Sample Response

```json
{
 "Valid": true,
 "License": {
   "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
   "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
   "installation_id": "*",
   "issue_time": "2018-05-21T20:03:35.911567355Z",
   "start_time": "2018-05-21T04:00:00Z",
   "expiration_time": "2019-05-22T03:59:59.999Z",
   "product": "consul",
   "flags": {
     "package": "premium"
   },
   "features": [
     "Automated Backups",
     "Automated Upgrades",

     "Enhanced Read Scalability",
     "Network Segments",
     "Redundancy Zone",
     "Advanced Network Federation"
   ],
   "temporary": false
```

```
 },
 "Warnings": []
}
```

Updating the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with
the ability to manage the cluster's license via the API.

This endpoint updates the Consul license and returns some of the
license contents as well as any warning messages regarding its validity.

Method	Path	Produces
`PUT`	`/operator/license`	`application/json`

The table below shows this endpoint's support for
[blocking queries](/consul/api-docs/features/blocking),
[consistency modes](/consul/api-docs/features/consistency),
[agent caching](/consul/api-docs/features/caching), and
[required ACLs](/consul/api-docs/api-structure#authentication).

Blocking Queries	Consistency Modes	Agent Caching	ACL Required
`NO`	`none`	`none`	`operator:write`

The corresponding CLI command is [`consul license put`](/consul/commands/license#put).

Query Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be updated.
 This will default to the datacenter of the agent serving the HTTP request.

Sample Payload

The payload is the raw license blob.

Sample Request

```shell-session
$ curl \
   --request PUT \
   --data @consul.license \
   http://127.0.0.1:8500/v1/operator/license
```

Sample Response

```json
{
 "Valid": true,
 "License": {
   "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
   "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
   "installation_id": "*",
   "issue_time": "2018-05-21T20:03:35.911567355Z",
   "start_time": "2018-05-21T04:00:00Z",
   "expiration_time": "2019-05-22T03:59:59.999Z",
   "product":
 "consul",
   "flags": {
     "package": "premium"
   },
   "features": [
     "Automated Backups",
     "Automated Upgrades",
     "Enhanced Read Scalability",
     "Network Segments",
     "Redundancy Zone",
     "Advanced Network Federation"
   ],
   "temporary": false
 },
 "Warnings": []
}
```

Resetting the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with
the ability to manage the cluster's license via the API.

This endpoint resets the Consul license to the license included in the Enterprise binary. If the included license is not valid, the replace will fail.

Method	Path	Produces
`DELETE`	`/operator/license`	`application/json`

The table below shows this endpoint's support for
[blocking queries](/consul/api-docs/features/blocking),
[consistency modes](/consul/api-docs/features/consistency),
[agent caching](/consul/api-docs/features/caching),

and
[required ACLs](/consul/api-docs/api-structure#authentication).

Blocking Queries	Consistency Modes	Agent Caching	ACL Required
`NO`	`none`	`none`	`operator:write`

The corresponding CLI command is [`consul license reset`](/consul/commands/license#reset).

Query Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be updated.
 This will default to the datacenter of the agent serving the HTTP request.

Sample Request

```shell-session
$ curl \
  --request DELETE \
  http://127.0.0.1:8500/v1/operator/license
```

Sample Response

```json
{
 "Valid": true,
 "License": {
  "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
  "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
  "installation_id": "*",
  "issue_time": "2018-05-21T20:03:35.911567355Z",
  "start_time": "2018-05-21T04:00:00Z",
   "expiration_time": "2019-05-22T03:59:59.999Z",
  "product": "consul",
  "flags": {
    "package": "premium"
  },
  "features": [
    "Automated Backups",
    "Automated Upgrades",
    "Enhanced Read Scalability",
    "Network Segments",
    "Redundancy Zone",
    "Advanced Network Federation"
  ],
  "temporary": false
 },
```

```
 "Warnings": []
}
```
```
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

@import './skin';
@import './layout';
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

.consul-intention-permission-form {
 h2 {
   padding-top: 1.4em;
   margin-top: 0.2em;
   margin-bottom: 0.6em;
 }
 .consul-intention-permission-header-form {
   margin-top: 10px;
 }
 fieldset:nth-child(2) > div,
 .consul-intention-permission-header-form fieldset > div {
   display: grid;
   grid-template-columns: repeat(auto-fit, minmax(160px, 1fr));
   grid-gap: 12px;
 }
 fieldset:nth-child(2) > div label:last-child {
   grid-column: span 2;
 }
 .ember-basic-dropdown-trigger {
   padding: 5px;
 }
 .checkbox-group {
   flex-direction: column;
 }
}
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

@import './skin';
@import './layout';
.consul-intention-permission-list > ul > li {
```

```
 @extend %list-row-200;
}
.consul-intention-permission-list:not(.readonly) > ul > li {
 @extend %with-composite-row-intent;
}
.consul-intention-permission-list strong {
 @extend %pill-500;
}
.consul-intention-permission-list .intent-allow {
 @extend %pill-allow;
}
.consul-intention-permission-list .intent-deny {
 @extend %pill-deny;
}
```

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```
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

.consul-intention-permission-header-list {
 max-height: 200px;
 overflow: auto;
}
{{!
 Copyright (c) HashiCorp, Inc.
 SPDX-License-Identifier: BUSL-1.1
}}

{{#if (gt items.length 0)}}
<ListCollection
 class="consul-intention-permission-header-list"
 @items={{items}}
 @scroll="native"
 @cellHeight={{42}}
as |item|>
 <BlockSlot @name="details">
   <dl>
     <dt>
       <Tooltip>
         Header
       </Tooltip>
     </dt>
     <dd>
       {{item.Name}} {{route-match item}}
     </dd>
   </dl>
 </BlockSlot>
 <BlockSlot @name="actions" as |Actions|>
   <Actions as |Action|>
     <Action data-test-delete-action @onclick={{action ondelete item}} class="dangerous">
       <BlockSlot @name="label">
         Delete
```

```
      </BlockSlot>
      <BlockSlot @name="confirmation" as |Confirmation|>
        <Confirmation class="warning">
          <BlockSlot @name="header">
            Confirm delete
          </BlockSlot>
          <BlockSlot @name="body">
            <p>
              Are you sure you want to delete this header?

  </p>
          </BlockSlot>
          <BlockSlot @name="confirm" as |Confirm|>
            <Confirm>Delete</Confirm>
          </BlockSlot>
        </Confirmation>
      </BlockSlot>
    </Action>
  </Actions>
 </BlockSlot>
</ListCollection>
{{/if}}
{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
   "rules": {
     "policies": {
       "consul-intentions-layer7-0": {
         "permissions": [
           {
             "andRules": {
               "rules": [
                 {
                   "urlPath": {
                     "path": {
                       "exact": "/v1/secret"
                     }
                   }
                 },
                 {
                   "andRules": {
                     "rules": [
                       {
                         "metadata": {
                           "filter": "envoy.filters.http.jwt_authn",
                           "path": [
                             {
```

```
                "key": "jwt_payload_auth0"
              },
              {
                "key": "iss"
              }
              ],
            "value": {
              "stringMatch": {
                "exact": "mytest.auth0-issuer"
              }
            }
          }
        },
        {
          "metadata": {
            "filter": "envoy.filters.http.jwt_authn",
            "path": [
              {
                "key": "jwt_payload_auth0"
              },
              {
                "key": "perms"
              },
              {
                "key": "role"
              }
            ],
            "value": {
              "stringMatch": {
                "exact": "admin"

  }
            }
          }
        }
      ]
    }
  }
  ]
 }
},
{
 "andRules": {
  "rules": [
   {
    "urlPath": {
     "path": {
      "exact": "/v1/admin"
```

```
            }
          }
        },
        {
          "notRule": {
            "urlPath": {
              "path": {
                "exact": "/v1/secret"
              }
            }
          }
        }
      ]
    }
  }
],
"principals": [
  {
    "andIds": {
      "ids": [
        {
          "authenticated": {
            "principalName": {

          "safeRegex": {
                "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
              }
            }
          }
        },
        {
          "andIds": {
            "ids": [
              {
                "metadata": {
                  "filter": "envoy.filters.http.jwt_authn",
                  "path": [
                    {
                      "key": "jwt_payload_okta"
                    },
                    {
                      "key": "iss"
                    }
                  ],
                  "value": {
                    "stringMatch": {
                      "exact": "mytest.okta-issuer"
                    }
```

```
                    }
                  }
                },

                {
                  "metadata": {
                    "filter": "envoy.filters.http.jwt_authn",
                    "path": [
                      {
                        "key": "jwt_payload_okta"
                      },
                      {
                        "key": "roles"
                      }
                    ],
                    "value": {
                      "stringMatch": {
                        "exact": "testing"
                      }
                    }
                  }
                }
              ]
            }
          }
        ]
      }
    }
  }
 }
}
```


---
layout: docs
page_title: Consul-Terraform-Sync Enterprise License
description: >-
 Consul-Terraform-Sync Enterprise License

Consul-Terraform-Sync Enterprise License

<EnterpriseAlert>
 Licenses are only required for Consul-Terraform-Sync (CTS) Enterprise
</EnterpriseAlert>

CTS Enterprise binaries require a [Consul Enterprise license](/consul/docs/enterprise/license/overview) to run.

There is no CTS Enterprise specific license. As a result, CTS Enterprise's licensing is very similar to Consul Enterprise.

All CTS Enterprise features are available with a valid Consul Enterprise license, regardless of your Consul Enterprise packaging or pricing model.

To get a trial license for CTS, you can sign-up for the [trial license for Consul Enterprise](/consul/docs/enterprise/license/faq#q-where-can-users-get-a-trial-license-for-consul-enterprise).

Automatic License Retrieval

CTS automatically retrieves a license from Consul on startup and then attempts to retrieve a new license once a day. If the current license is reaching its expiration date, CTS attempts to retrieve a license with increased frequency, as defined by the [License Expiration Date Handling](/consul/docs/nia/enterprise/license#license-expiration-handling).

~> Enabling automatic license retrieval is recommended when using HCP Consul, as HCP Consul licenses expire more frequently than Consul Enterprise licenses. Without auto-retrieval enabled, you have to restart CTS every time you load a new license.

Setting the License Manually

If a license needs to be manually set, choose one of the following methods (in order of precedence) to set the license:

1. Set the `CONSUL_LICENSE` environment variable to the license string.

  ```shell-session
  export CONSUL_LICENSE=<LICENSE_VALUE>
  ```

1. Set the `CONSUL_LICENSE_PATH` environment variable to the path of the file containing the license.

  ```shell-session
  export CONSUL_LICENSE_PATH=<PATH>/<TO>/<FILE>
  ```

1. To point to the file containing the license, in the configuration file, configure the [`license`](/consul/docs/nia/configuration#license) path option.

  ```hcl
  license {
    path = "<PATH>/<TO>/<FILE>"
  }
  ```

1. To point to the file containing the license, in the configuration file, configure the [`license_path`](/consul/docs/nia/configuration#license_path) option i. **Deprecated in CTS 0.6.0 and will be removed in a future release. Use [license block](/consul/docs/nia/configuration#license) instead.**

```hcl
license_path = "<PATH>/<TO>/<FILE>"
```

~> **Note**: the [options to set the license and the order of precedence](/consul/docs/enterprise/license/overview#binaries-without-built-in-licenses) are the same as Consul Enterprise server agents.
Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license key.

Updating the License Manually
To update the license when it expires or is
near the expiration date and automatic license retrieval is disabled:

1. Update the license environment variable or configuration with the new license value or path to the new license file
1. Stop and restart CTS Enterprise

Once CTS Enterprise starts again, it will pick up the new license and run the tasks with any changes that may have occurred between the stop and restart period.

License Expiration Handling

Licenses have an expiration date and a termination date. The termination date is a time at or after the license expires. CTS Enterprise will cease to function once the termination date has passed.

The time between the expiration and termination dates is a grace period. Grace periods are generally 24-hours, but you should refer to your license agreement for complete terms of your grace period.

When approaching expiration and termination, by default, CTS Enterprise will attempt to retrieve a new license. If auto-retrieval is disabled, CTS Enterprise will provide notifications
in the system logs:

Time period	Behavior - auto-retrieval enabled (default)	Behavior - auto-retrieval disabled
30 days before expiration	License retrieval attempt every 24-hours	Warning-level log every 24-hours
7 days before expiration	License retrieval attempt every 1 hour	Warning-level log every 1 hour
1 day before expiration	License retrieval attempt every 5 minutes	Warning-level log every 5 minutes
1 hour before expiration	License retrieval attempt every 1 minute	Warning-level log every 1 minute
At or after expiration (before termination)	License retrieval attempt every 1 minute	Error-level log every 1 minute
At or after termination	Error-level log
and exit	Error-level log and exit

```
~> **Note**: Notification frequency and [grace period](/consul/docs/enterprise/license/faq#q-is-there-a-grace-period-when-licenses-expire) behavior is the same as Consul Enterprise.
{{!
 Copyright (c) HashiCorp, Inc.
 SPDX-License-Identifier: BUSL-1.1
}}

<div
 ...attributes
 class="consul-intention-permission-header-form"
>
 <FormGroup
   @name={{name}}
 as |group|>

   {{yield (hash
     submit=(action 'submit' changeset)
     reset=(action 'reset' changeset)

     isDirty=(and changeset.isValid changeset.isDirty)
     changeset=changeset
   )}}

   <fieldset>
     <div>
       <group.Element
         @name="HeaderType"
         @type="select"
       as |el|>
         <el.Label>Header type</el.Label>
         <PowerSelect
           @options={{headerTypes}}
           @selected={{headerType}}
           @onChange={{action 'change' 'HeaderType' changeset}} as |Type|>
             {{get headerLabels Type}}
         </PowerSelect>
       </group.Element>


       <group.Element
         @name="Name"
         @error={{changeset-get changeset 'error.Name'}}
       as |el|>
         <el.Label>Header name</el.Label>
         <el.Text

          @value={{changeset-get changeset 'Name'}}
           oninput={{action 'change' 'Name' changeset}}
```

```
        />
        <State @state={{el.state}} @matches="error">
          <el.Error>
            {{changeset-get changeset 'error.Name.validation'}}
          </el.Error>
        </State>
      </group.Element>

{{#if shouldShowValueField}}
      <group.Element
        @name="Value"
        @error={{changeset-get changeset 'error.Value'}}
      as |el|>
        <el.Label>Header {{lowercase (get headerLabels headerType)}}</el.Label>
        <el.Text
          @value={{changeset-get changeset 'Value'}}
          oninput={{action 'change' 'Value' changeset}}
        />
        <State @state={{el.state}} @matches="error">
          <el.Error>
            {{changeset-get changeset 'error.Value.validation'}}
          </el.Error>
        </State>
      </group.Element>
{{/if}}

    </div>
  </fieldset>
</FormGroup>
</div>
{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
   "rules": {
     "policies": {
       "consul-intentions-layer7-0": {
         "permissions": [
           {
             "andRules": {
               "rules": [
                 {
                   "urlPath": {
                     "path": {
                       "prefix": "/v1"
                     }
                   }
                 },
```

```
      {
        "notRule": {
          "urlPath": {
            "path": {
              "exact": "/v1/secret"
            }
          }
        }
      }
    ]
  }
},
{
  "andRules": {
    "rules": [
      {
        "andRules": {
          "rules": [
            {

        "urlPath": {
              "path": {
                "safeRegex": {
                  "regex": "/v[123]"
                }
              }
            }
          },
          {
            "header": {
              "name": ":method",
              "stringMatch": {
                "safeRegex": {
                  "regex": "GET|HEAD|OPTIONS"
                }
              }
            }
          }
        ]
        }
      },
      {
        "notRule": {
          "urlPath": {
            "path": {
              "exact": "/v1/secret"
            }
          }
```

```
            }
          },

      {
            "notRule": {
              "andRules": {
                "rules": [
                  {
                    "urlPath": {
                      "path": {
                        "exact": "/v1/admin"
                      }
                    }
                  },
                  {
                    "header": {
                      "name": ":method",
                      "stringMatch": {
                        "safeRegex": {
                          "regex": "GET"
                        }
                      }
                    }
                  }
                ]
              }
            }
          }
        ]
      }
    },
    {
      "andRules": {
        "rules": [
          {

"andRules": {
                "rules": [
                  {
                    "header": {
                      "name": "x-foo",
                      "presentMatch": true
                    }
                  },
                  {
                    "header": {
                      "name": "x-bar",
                      "stringMatch": {
```

```
            "exact": "xyz"
          }
        }
      },
      {
        "header": {
          "name": "x-dib",
          "stringMatch": {
            "prefix": "gaz"
          }
        }
      },
      {
        "header": {
          "name": "x-gir",
          "stringMatch": {

"suffix": "zim"
          }
        }
      },
      {
        "header": {
          "name": "x-zim",
          "stringMatch": {
            "safeRegex": {
              "regex": "gi[rR]"
            }
          }
        }
      },
      {
        "header": {
          "invertMatch": true,
          "name": "z-foo",
          "presentMatch": true
        }
      },
      {
        "header": {
          "invertMatch": true,
          "name": "z-bar",
          "stringMatch": {
            "exact": "xyz"

    }
        }
      },
```

```
        {
          "header": {
            "invertMatch": true,
            "name": "z-dib",
            "stringMatch": {
              "prefix": "gaz"
            }
          }
        },
        {
          "header": {
            "invertMatch": true,
            "name": "z-gir",
            "stringMatch": {
              "suffix": "zim"
            }
          }
        },
        {
          "header": {
            "invertMatch": true,
            "name": "z-zim",
            "stringMatch": {
              "safeRegex": {

         "regex": "gi[rR]"
              }
            }
          }
        }
      ]
    }
  },
  {
    "notRule": {
      "urlPath": {
        "path": {
          "exact": "/v1/secret"
        }
      }
    }
  },
  {
    "notRule": {
      "header": {
        "name": "x-baz",
        "presentMatch": true
      }
```

```
                }
              }
            ]
          }
        }
      ],
      "principals": [
        {
          "authenticated": {
            "principalName": {
              "safeRegex": {
                "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
              }
            }
          }
        }
      ]
    }
  }
}
}
{
 "name": "envoy.filters.network.rbac",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.network.rbac.v3.RBAC",
   "rules": {},
   "statPrefix": "connect_authz"
 }
}
{
 "Valid": true,
 "License": {
   "license_id": "${fake.random.uuid()}",
   "customer_id": "${fake.random.uuid()}",
   "installation_id": "*",
   "issue_time": "2021-01-13T15:25:19.052900132Z",
   "start_time": "2021-01-13T00:00:00Z",
   "expiration_time": "${env('CONSUL_LICENSE_EXPIRATION', '2022-05-02T23:59:59.999Z')}",
   "termination_time": "${env('CONSUL_LICENSE_TERMINATION', '2022-01-13T23:59:59.999Z')}",
   "product": "consul",
   "flags": {
     "modules": [
       "global-visibility-routing-scale",
       "governance-policy"
     ]
   },
   "modules": [
```

"Global Visibility, Routing and Scale",
"Governance and Policy"
],
"features": [
"Automated Backups",
"Automated Upgrades",
"Enhanced Read Scalability",
"Network Segments",
"Redundancy Zone",
"Advanced Network Federation",
"Namespaces",
"SSO",
"Audit Logging",
"Admin Partitions"
]
},
"Warnings": [
]
}
{
"name": "envoy.filters.http.jwt_authn",
"typedConfig": {
"@type": "type.googleapis.com/envoy.extensions.filters.http.jwt_authn.v3.JwtAuthentication",
"providers": {
"okta": {
"issuer": "test-issuer",
"payloadInMetadata": "jwt_payload_okta",
"remoteJwks": {
"asyncFetch": {
"fastListener": true
},
"httpUri": {
"cluster": "jwks_cluster_okta",
"timeout": "1s",
"uri": "https://example-okta.com/.well-known/jwks.json"
}
}
}
},
"rules": [
{
"match": {
"prefix": "/"
},
"requires": {
"requiresAny": {
"requirements": [
{

```
            "providerName": "okta"
          },
          {
            "allowMissingOrFailed": {}
          }
        ]
      }
    }
  }
 ]
}
}
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

@import './skin';
@import './layout';
.consul-intention-permission-header-list {
 > ul > li {
   @extend %list-row-200;
 }
}
# Proprietary License

This license is temporary while a more official one is drafted. However,
this should make it clear:

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or reused in any way other than to run the website locally. The license for
the design is owned solely by HashiCorp, Inc.
{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
   "rules": {
     "policies": {
       "consul-intentions-layer7-0": {
         "permissions": [
           {
             "andRules": {
               "rules": [
                 {
                   "andRules": {
                     "rules": [
```

```
      {
        "urlPath": {
          "path": {
            "prefix": "/v1"
          }
        }
      },
      {
        "header": {
          "name": "x-foo",
          "presentMatch": true
        }
      }
    ]
  }
},
{
  "notRule": {
    "andRules": {

    "rules": [
        {
          "urlPath": {
            "path": {
              "exact": "/v1/secret"
            }
          }
        },
        {
          "header": {
            "name": "x-baz",
            "presentMatch": true
          }
        },
        {
          "header": {
            "name": "x-bar",
            "presentMatch": true
          }
        }
      ]
    }
  }
},
{
  "notRule": {
    "andRules": {
      "rules": [
```

```
                {

        "urlPath": {
                    "path": {
                      "exact": "/v1/admin"
                    }
                  }
                },
                {
                  "header": {
                    "name": "x-baz",
                    "presentMatch": true
                  }
                },
                {
                  "header": {
                    "name": "x-bar",
                    "presentMatch": true
                  }
                }
              ]
            }
          }
        }
      }
    ]
  }
}
}
# License

```hbs preview-template
<figure>
```
```

```
 <figcaption>URI: <code>/:partition/:nspace/:dc/license</code></figcaption>
 <DataSource
   @src={{
     uri '/${partition}/${nspace}/${dc}/license'
     (hash
       partition='partition'
       nspace='ns'
       dc='dc-1'
     )
   }}
   @onchange={{action (mut data) value="data"}}
 />
 <pre><code>{{json-stringify data null 4}}</code></pre>
</figure>
```
---
page_title: Automated license utilization reporting
description: >-
 Learn what data HashiCorp collects to meter Enterprise license utilization. Enable or disable reporting. Review sample payloads and logs.

Automated license utilization reporting

This topic describes how to enable automated license utilization reporting in Consul Enterprise. This feature automatically sends license utilization data to HashiCorp so that you do not have to manually collect and report it. It also enables you to review your license usage with the monitoring solution you already use, such as Splunk and Datadog, as you optimize and manage your deployments.

Introduction

You can use automated license utilization report to understand how much additional networking infrastructure you can deploy under your current contract. This feature helps you protect against overutilization and budget for predicted consumption.

Automated reporting shares the minimum data required to validate license utilization
 as defined in our contracts. This data mostly consists of computed metrics, and it will never contain Personal Identifiable Information (PII) or other sensitive information. Automated reporting shares the data with HashiCorp using a secure unidirectional HTTPS API and makes an auditable record in the product logs each time it submits a report. This process is GDPR-compliant.

Requirements

Automated license utilization reporting does not support _air-gapped installations_, which are systems with no network interfaces.

The following versions of Consul Enterprise support automated license utilization reporting:

- Consul Enterprise v1.16.0 and newer.
- Patch releases of Consul Enterprise v1.15.4 and newer.
- Patch releases of Consul Enterprise v1.14.8 and newer.
- Patch releases of Consul Enterprise v1.13.9 and newer.

Download a supported release from the [Consul Versions](https://releases.hashicorp.com/consul/) page.

Enable automated reporting

Before you enable automated reporting,
 make sure that outbound network traffic is configured correctly and upgrade your enterprise product to a version that supports it. If your installation is air-gapped or network settings are not in place, automated reporting will not work.

To enable automated reporting, complete the following steps:

1. [Allow outbound HTTPS traffic on port 443](#allow-outbound-https-traffic)
1. [Check product logs](#check-product-logs)

Allow outbound HTTPS traffic on port 443

Make sure that your network allows HTTPS egress on port 443 from `https://reporting.hashicorp.services` by adding the following IP addresses to your allow-list:

- `100.20.70.12`
- `35.166.5.222`
- `23.95.85.111`
- `44.215.244.1`

Check product logs

Automatic license utilization reporting starts sending data within roughly 24 hours. Check the product logs for records that the data sent successfully.

<CodeBlockConfig hideClipboard>

```
[DEBUG] beginning snapshot export
[DEBUG] creating payload
[DEBUG] marshalling
 payload to json
[DEBUG] generating authentication headers
[DEBUG] creating request
[DEBUG] sending request
[DEBUG] performing request: method=POST url=https://census.license.hashicorp.services
[DEBUG] recording audit record
[INFO]  reporting: Report sent: auditRecord={"payload":{"payload_version":"1","license_id":"d2cdd857-4202-5a45-70a6-e4b531050c34","product":"consul","product_version":"1.16.0-dev+ent","export_timestamp":"2023-05-
```

26T20:09:13.753921087Z","snapshots":[{"snapshot_version":1,"snapshot_id":"0001J724F90F4XWQDSAA76ZQWA","process_id":"01H1CTJPC1S8H7Q45MKTJ689ZW","timestamp":"2023-05-26T20:09:13.753513962Z","schema_version":"1.0.0","service":"consul","metrics":{"consul.billable.nodes":{"key":"consul.billable.nodes","kind":"counter","mode":"write","value":2},"consul.billable.service_instances":{"key":"consul.billable.service_instances","kind":"counter","mode":"write","value":2}}}],"metadata":{}}}
[DEBUG] completed recording audit record
[DEBUG] export finished successfully"
```

</CodeBlockConfig>

If
 your installation is air-gapped or your network does not allow the correct egress, the logs show an error.

<CodeBlockConfig hideClipboard>

```
[DEBUG] reporting: beginning snapshot export
[DEBUG] reporting: creating payload
[DEBUG] reporting: marshalling payload to json
[DEBUG] reporting: generating authentication headers
[DEBUG] reporting: creating request
[DEBUG] reporting: sending request
[DEBUG] reporting: performing request: method=POST url=https://census.license.hashicorp.services
[DEBUG] reporting: error status code received: statusCode=403
```

</CodeBlockConfig>

In this case, reconfigure your network to allow egress and check the logs again in roughly 24 hours to confirm that automated reporting works correctly.

Opt out

If your installation is air-gapped or you want to manually collect and report on the same license utilization metrics, you can opt out of automated reporting.

Manually reporting these metrics can be time consuming. Opting
 out of automated reporting does not mean that you also opt out from sending license utilization metrics. Customers who opt out of automated reporting are still required to manually collect and send license utilization metrics to HashiCorp.

If you are considering opting out because you are worried about the data, we strongly recommend that you review the [example payloads](#example-payloads) before opting out. If you have concerns with any of the automatically reported data, raise these concerns with your account manager.

There are two methods for opting out of automated reporting:
```

- HCL configuration (recommended)
- Environment variable (requires restart)

We recommend opting out in your product's configuration file because it does not require a system restart. Add the following block to your `configuration.hcl` or `configuration.json` file.

```hcl
reporting {
 license {
  enabled = false
 }
}
```

When opting out using an environment variable, the system provides a startup message
 confirming that you have disabled automated reporting. Set the following environment variable to disable automated reporting:

<CodeBlockConfig>

```shell-session
$ export OPTOUT_LICENSE_REPORTING=true
```

</CodeBlockConfig>

After you set the environment variable, restart your system to complete the process for opting out.

```shell-session
$ consul reload
```

Check your product logs roughly 24 hours after opting out to make sure that the system is not trying to send reports. Keep in mind that if your configuration file and environment variable differ, the environment variable setting takes precedence.

Example payloads

HashiCorp collects the following utilization data as JSON payloads:
`exporter_version` - The version of the licensing exporter

<CodeBlockConfig hideClipboard>

```json
{
 "payload": {
   "payload_version": "1",
```

```
  "license_id": "d2cdd857-4202-5a45-70a6-e4b531050c34",
  "product": "consul",
  "product_version": "1.16.0-dev+ent",
  "export_timestamp":
"2023-05-26T20:09:13.753921087Z",
  "snapshots": [
    {
      "snapshot_version": 1,
      "snapshot_id": "0001J724F90F4XWQDSAA76ZQWA",
      "process_id": "01H1CTJPC1S8H7Q45MKTJ689ZW",
      "timestamp": "2023-05-26T20:09:13.753513962Z",
      "schema_version": "1.0.0",
      "service": "consul",
      "metrics": {
        "consul.billable.nodes": {
          "key": "consul.billable.nodes",
          "kind": "counter",
          "mode": "write",
          "value": 2
        },
        "consul.billable.service_instances": {
          "key": "consul.billable.service_instances",
          "kind": "counter",
          "mode": "write",
          "value": 2
        }
      }
    }
  ],
  "metadata": {}
 }
}
```


</CodeBlockConfig>
---
layout: docs
page_title: Storing the Enterprise License in Vault
description: >-
 Configuring the Consul Helm chart to use an enterprise license stored in Vault.

Storing the Enterprise License in Vault

This topic describes how to configure the Consul Helm chart to use an enterprise license stored in Vault.
Overview
Complete the steps outlined in the [Data Integration](/consul/docs/k8s/deployment-configurations/vault/data-integration) section to use an enterprise license stored in Vault.

Complete the following steps once:
1. Store the secret in Vault.
1. Create a Vault policy that authorizes the desired level of access to the secret.

Repeat the following steps for each datacenter in the cluster:
1. Create Vault Kubernetes auth roles that link the policy to each Consul on Kubernetes service account that requires access.
1. Update the Consul on Kubernetes helm chart.

Prerequisites
Prior to setting up the data integration between Vault and Consul on Kubernetes,
you will need to have:
1. Read and completed the steps in the [Systems Integration](/consul/docs/k8s/deployment-configurations/vault/systems-integration) section of [Vault as a Secrets Backend](/consul/docs/k8s/deployment-configurations/vault).
2. Read the [Data Integration Overview](/consul/docs/k8s/deployment-configurations/vault/data-integration) section of [Vault as a Secrets Backend](/consul/docs/k8s/deployment-configurations/vault).

Store the Secret in Vault

First, store the enterprise license in Vault:

```shell-session
$ vault kv put consul-kv/secret/enterpriselicense key="<enterprise license>"
```

Create Vault policy

Next, you will need to create a policy that allows read access to this secret.

The path to the secret referenced in the `path` resource is the same value that you will configure in the `global.enterpriseLicense.secretName` Helm configuration (refer to [Update Consul on Kubernetes Helm chart](#update-consul-on-kubernetes-helm-chart)).

<CodeBlockConfig
filename="license-policy.hcl">

```HCL
path "consul-kv/data/secret/enterpriselicense" {
 capabilities = ["read"]
}
```

</CodeBlockConfig>

Apply the Vault policy by issuing the `vault policy write` CLI command:

```shell-session
$ vault policy write license-policy license-policy.hcl
```

Create Vault Authorization Roles for Consul

Next, you will create Kubernetes auth roles for the Consul server and client:

```shell-session
$ vault write auth/kubernetes/role/consul-server \
  bound_service_account_names=<Consul server service account> \
  bound_service_account_namespaces=<Consul installation namespace> \
  policies=license-policy \
  ttl=1h
```

```shell-session
$ vault write auth/kubernetes/role/consul-client \
  bound_service_account_names=<Consul client service account> \
  bound_service_account_namespaces=<Consul installation namespace> \
  policies=license-policy \
  ttl=1h
```

To find out the service account names of the Consul server and client,
you can
 run the following `helm template` commands with your Consul on Kubernetes values file:

- Generate Consul server service account name
 ```shell-session
 $ helm template --release-name ${RELEASE_NAME} -s templates/server-serviceaccount.yaml hashicorp/consul -f values.yaml
 ```

- Generate Consul client service account name
 ```shell-session
 $ helm template --release-name ${RELEASE_NAME} -s templates/client-serviceaccount.yaml hashicorp/consul -f values.yaml
 ```

Update Consul on Kubernetes Helm chart.

Now that you have configured Vault, you can configure the Consul Helm chart to
use the enterprise enterprise license in Vault:

<CodeBlockConfig filename="values.yaml">

```yaml
```

```
global:
 image: hashicorp/consul-enterprise:1.12.0-ent
 secretsBackend:
   vault:
     enabled: true
     consulServerRole: consul-server
     consulClientRole: consul-client
 enterpriseLicense:
   secretName: consul-kv/data/secret/enterpriselicense
   secretKey: key
```

</CodeBlockConfig>

Note
 that `global.enterpriseLicense.secretName` is the path of the secret in Vault.
This should be the same path as the one you included in your Vault policy.
`global.enterpriseLicense.secretKey` is the key inside the secret data. This should be the same
as the key you passed when creating the enterprise license secret in Vault.

```
{{!
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}}

<Hds::Alert @type='inline' @color={{or @type "neutral"}} class='mb-2 mt-2 consul-intention-notice-custom-
resource' as |A|>
 <A.Title>Intention Custom Resource</A.Title>
 <A.Description>Some of your intentions are being managed through an Intention Custom Resource in your
Kubernetes cluster. Those managed intentions will be view only in the UI. Any intentions created in the UI will
work but will not be synced to the Custom Resource Definition (CRD) datastore.</A.Description>
 <A.Link::Standalone @href="{{env 'CONSUL_DOCS_URL'}}/k8s/crds"
                 @text='Learn more about CRDs'
                 @icon="docs-link"
                 @iconPosition="trailing"
                 @size="small" />
</Hds::Alert>
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

.consul-intention-permission-form {
 h2 {
   border-top: 1px solid var(--token-color-foreground-action);
   @extend %display-400-semibold;
 }
 button.type-submit {
   @extend %frame-blue-300;
```

```
 }
 button.type-submit:hover:not(:disabled),
 button.type-submit:focus:not(:disabled) {
   @extend %frame-blue-500;
 }
 button.type-submit:disabled {
   @extend %frame-blue-200;
 }
}

.consul-intention-view {
 h2 {
   @extend %display-400-semibold;
 }
}
```

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}}

{{#if (gt items.length 0)}}
<ListCollection
 class="consul-intention-permission-list{{if (not onclick) ' readonly'}}"
 @scroll="native"
 @items={{items}}
 @partial={{5}}
as |item|>
 <BlockSlot @name="details">
   <div onclick={{action (optional onclick) item}}>
     <strong class={{concat 'intent-' item.Action}}>{{capitalize item.Action}}</strong>
{{#if (gt item.HTTP.Methods.length 0)}}
       <dl class="permission-methods">
         <dt>
           <Tooltip>
             Methods
           </Tooltip>
         </dt>
         <dd>
{{#each item.HTTP.Methods as |item|}}
           {{item}}
{{/each}}
         </dd>
       </dl>
{{/if}}
{{#if item.HTTP.Path}}
       <dl class="permission-path">
         <dt>
           <Tooltip>
             {{item.HTTP.PathType}}
           </Tooltip>
         </dt>
         <dd>
           {{item.HTTP.Path}}
         </dd>
       </dl>
```

```
{{/if}}
{{#each item.HTTP.Header
 as |item|}}
      <dl class="permission-header">
        <dt>
          <Tooltip>
            Header
          </Tooltip>
        </dt>
        <dd>
          {{item.Name}} {{route-match item}}
        </dd>
      </dl>
{{/each}}
  </div>
 </BlockSlot>
{{#if onclick}}
 <BlockSlot @name="actions" as |Actions|>
   <Actions as |Action|>
     <Action data-test-edit-action @onclick={{action (optional onclick) item}} @close={{true}}>
       <BlockSlot @name="label">
         Edit
       </BlockSlot>
     </Action>
     <Action data-test-delete-action @onclick={{action ondelete item}} class="dangerous">
       <BlockSlot @name="label">
         Delete
       </BlockSlot>
       <BlockSlot @name="confirmation" as |Confirmation|>
         <Confirmation class="warning">
           <BlockSlot @name="header">
             Confirm delete
           </BlockSlot>
           <BlockSlot @name="body">
             <p>
               Are you sure you
 want to delete this permission?
             </p>
           </BlockSlot>
           <BlockSlot @name="confirm" as |Confirm|>
             <Confirm>Delete</Confirm>
           </BlockSlot>
         </Confirmation>
       </BlockSlot>
     </Action>
   </Actions>
 </BlockSlot>
{{/if}}
```

</ListCollection>
{{/if}}
/*!
* clipboard.js v2.0.11
* https://clipboardjs.com/
*
* Licensed MIT Zeno Rocha
*/

/*!
* focus-trap 6.9.4
* @license MIT, https://github.com/focus-trap/focus-trap/blob/master/LICENSE
*/

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*/

/**
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*/
---
layout: commands
page_title: 'Commands: License'
description: >
 The license command provides a datacenter-level view of the Consul
 Enterprise license.

Consul License

Command: `consul license`

<EnterpriseAlert />

The `license` command provides a list of all datacenters that use the Consul Enterprise license applied to the current datacenter.

~> **Warning**: Consul 1.10.0 removed the ability to set and reset the license using the CLI.
See the [licensing documentation](/consul/docs/enterprise/license/overview) for more information about
Consul Enterprise license management.

If ACLs are enabled then a token with operator privileges may be required in
order to use this command. Requests are forwarded internally to the leader
if required, so this can be run from any Consul node in a cluster. See the
[ACL Guide](/consul/tutorials/security/access-control-setup-production) for more information.

```text
Usage: consul license <subcommand> [options] [args]

 This command has subcommands
 for managing the Consul Enterprise license
 Here are some simple examples, and more detailed examples are
 available in the subcommands or the documentation.

 Install a new license from a file:

    $ consul license put @consul.license

 Install a new license from stdin:

    $ consul license put -

 Install a new license from a string:

    $ consul license put "<license blob>"

 Retrieve the current license:

    $ consul license get

 Inspect a license:

    $ consul license inspect "<path to license file>"

 Reset the current license:
```

```
    $ consul license reset

 For more examples, ask for subcommand help or view the documentation.

Subcommands:
   get       Get the active license
   inspect    Inspect a signed license
   put       Puts a new license in the datacenter
   reset      Resets the license in the datacenter
```

inspect

This command inspects and validates a license. Just like a Consul agent it
can load the license from a file
 on disk or from the `CONSUL_LICENSE` and
`CONSUL_LICENSE_PATH` environment variables.

Usage: `consul license inspect [<options>] [<license file>]`

Inspect a license contained in a file:

```
$ consul license inspect consul.hclic
```

Inspect a license loaded from the environment:

```
$ consul license inspect
```

This will look at the CONSUL_LICENSE environment variable first
and if not present then we will look for the file specified
by the CONSUL_LICENSE_PATH environment variable.

The output looks like this:

```
Source: /consul/config/consul.hclic (path from the CONSUL_LICENSE_PATH environment variable)
Product: consul
License ID: 6089174b-a713-74cf-4c8d-856b86f1ce50
Customer ID: 7c020610-60a2-7ccb-c210-20d899e5f3b4
Installation ID: *
Issue Time: 2020-09-14 19:45:56.212195875 +0000 UTC
Start Time: 2020-09-14 00:00:00 +0000 UTC
```

Expiration Time: 2021-09-14 23:59:59.999 +0000 UTC
Termination Time: 2021-09-14 23:59:59.999 +0000 UTC
Modules:
    Global Visibility, Routing and Scale
    Governance and Policy
Features:
    Automated Backups
    Automated Upgrades
    Enhanced Read Scalability
    Network Segments
    Redundancy Zone
    Advanced Network Federation
    Namespaces
    SSO
    Audit Logging
    Admin Partitions

License is valid

```

## put

-> **Deprecated** The ability to manage the cluster's license via the CLI
was removed in Consul 1.10. While the CLI command still exists it will
always return an error. This command will be fully removed in a future release.

Corresponding HTTP API Endpoint: [\[PUT\] /v1/operator/license](/consul/api-docs/operator/license#updating-the-consul-license)

This command sets the Consul Enterprise license.

The table below shows this command's [required ACLs](/consul/api-docs/api-structure#authentication). Configuration of
[blocking queries](/consul/api-docs/features/blocking) and [agent caching](/consul/api-docs/features/caching) are not supported from commands, but may be
 from the corresponding HTTP endpoint.

| ACL Required |
| --- |
| `operator:write` |

Usage: `consul license put [options] LICENSE`

The output looks like this:

```text
License is valid

License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
    Automated Backups
    Automated Upgrades
    Enhanced Read Scalability
    Network Segments
    Redundancy Zone
    Advanced Network Federation
```

API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

get

Corresponding HTTP API Endpoint: [\[GET\] /v1/operator/license](/consul/api-docs/operator/license#getting-the-consul-license)

This command gets the Consul Enterprise license. If the leader hasn't been updated with the newer license, the followers
will display the outdated license in their GET output.

The table below
 shows this command's [required ACLs](/consul/api-docs/api-structure#authentication). Configuration of [blocking queries](/consul/api-docs/features/blocking) and [agent caching](/consul/api-docs/features/caching) are not supported from commands, but may be from the corresponding HTTP endpoint.

ACL Required
`none`

Usage: `consul license get [options]`

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
```
```

Package: premium
Licensed Features:
    Automated Backups
    Automated Upgrades
    Enhanced Read Scalability
    Network Segments
    Redundancy Zone
    Advanced Network Federation
```

#### API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

## reset

-> **Deprecated** The ability to manage the cluster's license via the CLI
was
 removed in Consul 1.10. While the CLI command still exists it will
always return an error. This command will be fully removed in a future release.

Corresponding HTTP API Endpoint: [\[DELETE\] /v1/operator/license](/consul/api-docs/operator/license#resetting-the-consul-license)

Resets license for the datacenter to the one builtin in Consul binary, if it is still valid.
If the builtin license is invalid, the current one stays active.

The table below shows this command's [required ACLs](/consul/api-docs/api-structure#authentication).
Configuration of
[blocking queries](/consul/api-docs/features/blocking) and [agent caching](/consul/api-docs/features/caching)
are not supported from commands, but may be from the corresponding HTTP endpoint.

| ACL Required |
| --- |
| `operator:write` |

Usage: `consul license reset [options]`

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires

```
 At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
      Automated Backups
      Automated Upgrades
      Enhanced Read Scalability
      Network Segments
      Redundancy Zone
      Advanced Network Federation
```

API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

```
/**
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* SPDX-License-Identifier: BUSL-1.1
*/

.agentless-node-notice .hds-alert__title {
 display: flex;
 justify-content: space-between;
}
```

Mozilla Public License 2.0 (MPLv2.0)

```
{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
   "rules": {
     "policies": {
       "consul-intentions-layer7-0": {
         "permissions": [
           {
             "andRules": {
               "rules": [
                 {
                   "andRules": {
                     "rules": [
                       {
                         "urlPath": {
                           "path": {
                             "prefix": "/v1"
                           }
                         }
                       },
```

```
            {
              "header": {
                "name": "x-foo",
                "presentMatch": true
              }
            }
          ]
        }
      },
      {
        "notRule": {
          "andRules": {

          "rules": [
            {
              "urlPath": {
                "path": {
                  "exact": "/v1/secret"
                }
              }
            },
            {
              "header": {
                "name": "x-baz",
                "presentMatch": true
              }
            },
            {
              "header": {
                "name": "x-bar",
                "presentMatch": true
              }
            }
          ]
          }
        }
      },
      {
        "notRule": {
          "andRules": {
            "rules": [
              {

"urlPath": {
                "path": {
                  "exact": "/v1/admin"
                }
              }
```

```
                },
                {
                  "header": {
                    "name": "x-baz",
                    "presentMatch": true
                  }
                },
                {
                  "header": {
                    "name": "x-bar",
                    "presentMatch": true
                  }
                }
              ]
            }
          }
        }
      ]
    }
  },
  {
    "andRules": {
      "rules": [
        {
          "andRules": {
            "rules": [
              {

"urlPath": {
                  "path": {
                    "prefix": "/v2"
                  }
                }
              },
              {
                "header": {
                  "name": "x-foo",
                  "presentMatch": true
                }
              }
            ]
          }
        },
        {
          "notRule": {
            "andRules": {
              "rules": [
                {
```

```
                "urlPath": {
                  "path": {
                    "exact": "/v2/secret"
                  }
                }
              },
              {
                "header": {
                  "name": "x-baz",
                  "presentMatch":
true
                }
              },
              {
                "header": {
                  "name": "x-bar",
                  "presentMatch": true
                }
              }
            ]
          }
        }
      },
      {
        "notRule": {
          "andRules": {
            "rules": [
              {
                "urlPath": {
                  "path": {
                    "exact": "/v2/admin"
                  }
                }
              },
              {
                "header": {
                  "name": "x-baz",
                  "presentMatch": true
                }
              },

    {
                "header": {
                  "name": "x-bar",
                  "presentMatch": true
                }
              }
            ]
```

```
                }
              }
            }
          ]
        }
      }
    ],
    "principals": [
      {
        "authenticated": {
          "principalName": {
            "safeRegex": {
              "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
            }
          }
        }
      }
    ]
  }
 }
}
{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
  "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
  "rules": {
   "policies": {
    "consul-intentions-layer7-0": {
     "permissions": [
      {
       "andRules": {
        "rules": [
         {
          "urlPath": {
           "path": {
            "prefix": "some-path"
           }
          }
         },
         {
          "andRules": {
           "rules": [
            {
             "metadata": {
              "filter": "envoy.filters.http.jwt_authn",
              "path": [
```

```
                {
                  "key": "jwt_payload_okta"
                },
                {
                  "key": "iss"
                }

              ],
              "value": {
                "stringMatch": {
                  "exact": "mytest.okta-issuer"
                }
              }
            }
          },
          {
            "metadata": {
              "filter": "envoy.filters.http.jwt_authn",
              "path": [
                {
                  "key": "jwt_payload_okta"
                },
                {
                  "key": "roles"
                }
              ],
              "value": {
                "stringMatch": {
                  "exact": "testing"
                }
              }
            }
          }

]
        }
      }
    ]
  }
}
],
"principals": [
  {
    "authenticated": {
      "principalName": {
        "safeRegex": {
          "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
        }
```

```
            }
           }
          }
         ]
        }
      }
    }
  }
}
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

section[data-route='dc.show.license'] {
 @extend %license-route;
}
%license-route .validity {
 @extend %license-validity;
}
%license-route aside {
 @extend %license-route-learn-more;
}

%license-route h2 {
 @extend %display-400-semibold;
}

%license-validity p {
 color: var(--token-color-foreground-faint);
}
%license-validity dl {
 @extend %horizontal-kv-list;
 @extend %body-300-regular;
}
%license-validity dl .expired + dd {
 @extend %visually-hidden;
}
%license-validity dl dt::before {
 content: '';
 margin-right: 0.25rem; /* 4px */
}
%license-validity dl .expired::before {
 --icon-name: icon-x-circle;
 --icon-color: var(--token-color-foreground-critical);
}
%license-validity dl .warning::before {
 --icon-name: icon-alert-circle;
```

```
 --icon-color: var(--token-color-foreground-warning);
}
%license-validity dl .valid:not(.warning)::before {
 --icon-name: icon-check-circle;
 --icon-color: var(--token-color-foreground-success);
}

%license-route-learn-more
 {
 @extend %panel;
 box-shadow: none;
 padding: var(--padding-y) var(--padding-x);
 width: 40%;
 min-width: 413px;
 margin-top: 1rem; /* 16px */
}
%license-route-learn-more header > :first-child {
 @extend %display-300-semibold;
}
%license-route-learn-more header {
 margin-bottom: 1rem; /* 16px */
}
{{!
 Copyright (c) HashiCorp, Inc.
 SPDX-License-Identifier: BUSL-1.1
}}

<Route
 @name={{routeName}}
as |route|>
 <DataLoader
   @src={{
     uri '/${partition}/${nspace}/${dc}/license'
     (hash
       partition=route.params.partition
       nspace=route.params.nspace
       dc=route.params.dc
     )
   }}
 as |loader|>

{{#let
 loader.data
as |item|}}
   <BlockSlot @name="error">
     <ErrorState
       @error={{loader.error}}
       @login={{route.model.app.login.open}}
```

```
  />
</BlockSlot>

<BlockSlot @name="disconnected" as |after|>
  {{#if (eq loader.error.status "404")}}
    <Hds::Toast @color='warning'
      {{notification
        sticky=true
      }} as |T|>
      <T.Title>Warning!</T.Title>
      <T.Description>This service has been deregistered and no longer exists in the catalog.</T.Description>
    </Hds::Toast>
  {{else if (eq loader.error.status "403")}}
    <Hds::Toast @color='critical'
      {{notification
         sticky=true
      }} as |T|>
      <T.Title>Error!</T.Title>
      <T.Description>You no longer have access to this service.</T.Description>
    </Hds::Toast>
  {{else}}
    <Hds::Toast @color='warning'
      {{notification
        sticky=true
      }} as |T|>
      <T.Title>Warning!</T.Title>
      <T.Description>An error was returned whilst loading this data, refresh to try again.</T.Description>
    </Hds::Toast>
  {{/if}}
</BlockSlot>

<BlockSlot @name="loaded">
  <div class="tab-section">
    <section
      class={{class-map
        'validity'
        (array 'valid' item.Valid)
      }}
    >
      <header>
        <h2>
          {{compute (fn route.t 'expiry.header')}}
        </h2>
      </header>

      <p>
        {{compute (fn route.t 'expiry.${type}.body'
          (hash
```

```
          type=(if item.Valid 'valid' 'expired')

  date=(format-time item.License.expiration_time
            year='numeric'
            month='long'
            day='numeric'
          )
          time=(format-time item.License.expiration_time
            hour12=true
            hour='numeric'
            hourCycle='h12'
            minute='numeric'
            second='numeric'
            timeZoneName='short'
          )
          htmlSafe=true
        )
      )}}
    </p>

    <dl>
      <dt class={{class-map
          (array 'valid' item.Valid)
          (array 'expired' (not item.Valid))
          (array 'warning' (temporal-within item.License.expiration_time 2629800000))
        }}
      >
        {{compute (fn route.t 'expiry.${type}.header'
          (hash
            type=(if item.Valid 'valid' 'expired')
          )
        )}}
      </dt>

<dd>
        {{temporal-format item.License.expiration_time}}
      </dd>
    </dl>

    <aside>
      <header>
        <h3>
          {{compute (fn route.t 'documentation.title')}}
        </h3>
      </header>
      <div class="flex gap-1.5 flex-col">
        <Hds::Link::Standalone
          @text={{compute (fn route.t 'documentation.links.license-expiration.text')}}
```

```
            @href='{{concat (env 'CONSUL_DOCS_URL') (compute (fn route.t 'documentation.links.license-
expiration.link'))}}'
            @icon='docs-link'
            @iconPosition='trailing'
          />
          <Hds::Link::Standalone
            @text={{compute (fn route.t 'documentation.links.renewing-license.text')}}
            @href='{{concat (env 'CONSUL_DOCS_URL') (compute (fn route.t 'documentation.links.renewing-
license.link'))}}'
            @icon='docs-link'
            @iconPosition='trailing'

        />
          <Hds::Link::Standalone
            @text={{compute (fn route.t 'documentation.links.applying-new-license.text')}}
            @href='{{concat (env 'CONSUL_DOCS_URL') (compute (fn route.t 'documentation.links.applying-new-
license.link'))}}'
            @icon='docs-link'
            @iconPosition='trailing'
          />
        </div>
      </aside>

    </section>
  </div>
 </BlockSlot>
{{/let}}
 </DataLoader>
</Route>
// Copyright (c) HashiCorp, Inc.
// SPDX-License-Identifier: MPL-2.0

package api

import (
 "io"
 "strings"
 "time"
)

type License struct {
 // The unique identifier of the license
 LicenseID string `json:"license_id"`

 // The customer ID associated with the license
 CustomerID string `json:"customer_id"`

 // If set, an identifier that should be used to lock the license to a
```

```
 // particular site, cluster, etc.
 InstallationID string `json:"installation_id"`

 // The time at which the license was issued
 IssueTime time.Time `json:"issue_time"`

 // The time at which the license starts being valid
 StartTime time.Time `json:"start_time"`

 // The time after which the license expires
 ExpirationTime time.Time `json:"expiration_time"`

 // The time at which the license ceases to function and can
 // no longer be used in any capacity
 TerminationTime time.Time `json:"termination_time"`

 // Whether the license will ignore termination
 IgnoreTermination bool `json:"ignore_termination"`

 //
 The product the license is valid for
 Product string `json:"product"`

 // License Specific Flags
 Flags map[string]interface{} `json:"flags"`

 // Modules is a list of the licensed enterprise modules
 Modules []string `json:"modules"`

 // List of features enabled by the license
 Features []string `json:"features"`
}

type LicenseReply struct {
 Valid    bool
 License  *License
 Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
 var reply LicenseReply
 if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
  return nil, err
 } else {
  return &reply, nil
 }
}
```

```
func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
 r := op.c.newRequest("GET", "/v1/operator/license")
 r.params.Set("signed", "1")
 r.setQueryOptions(q)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return "", err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return "", err
 }

 data, err := io.ReadAll(resp.Body)
 if
 err != nil {
  return "", err
 }

 return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r := op.c.newRequest("DELETE", "/v1/operator/license")
 r.setWriteOptions(opts)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return nil, err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return nil, err
 }
 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
 }
 return &reply, nil
}

// LicensePut will configure the Consul Enterprise license for the target datacenter
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
```

```
// are now set
 via agent configuration instead of through the API
func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r := op.c.newRequest("PUT", "/v1/operator/license")
 r.setWriteOptions(opts)
 r.body = strings.NewReader(license)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return nil, err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return nil, err
 }

 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
 }

 return &reply, nil
}
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

.consul-intention-permission-header-list {
 dt::before {
   @extend %with-glyph-icon;
   content: 'H';
 }
}
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

.consul-intention-permission-list {
 dt::before {
   @extend %with-glyph-icon;
 }
 dl.permission-methods dt::before {
   content: 'M';
 }
 dl.permission-path dt::before {
   content: 'P';
 }
```

```
 dl.permission-header dt::before {
   content: 'H';
 }
}
```

---
layout: docs
page_title: Enterprise Licenses
description: >-
 Consul Enterprise server, client, and snapshot agents require a license on startup in order to use Enterprise features. Learn how to apply licenses using environment variables or configuration files.

Consul Enterprise License

Licensing Overview

All Consul Enterprise agents must be licensed when they are started. Where that license comes from will depend on which binary is in use, whether the agent is a server, client or snapshot agent, and whether ACLs have been enabled for the cluster.

-> ** Consul Enterprise 1.10.0 removed temporary licensing.** Prior to 1.10.0, Consul Enterprise agents could start without a license and then have a license applied to them later on via the CLI or API. That functionality has been removed and replaced with the ability to load licenses from the agent's configuration or environment. Also, prior to 1.10.0, server agents would automatically propagate the license between themselves.
 This no longer occurs and the license must be present on each server agent when it is started.

Consul Enterprise 1.14.0, when running on Kubernetes, removed client agents and replaced these with virtual agents.
Virtual agents are nodes that Consul service mesh services run on. HashiCorp uses virtual agents to determine license entitlements for customers on per-node licensing and pricing agreements.

-> Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license key.

Applying a License

For Consul Enterprise 1.10.0 or greater, a license must be available at the time the agent starts.
For server agents this means that they must either have the [`license_path`](/consul/docs/agent/config/config-files#license_path)
configuration set or have a license configured in the servers environment with the `CONSUL_LICENSE` or `CONSUL_LICENSE_PATH` environment variables. Both the configuration
 item and the `CONSUL_LICENSE_PATH`
environment variable point to a file containing the license whereas the `CONSUL_LICENSE` environment variable should contain the license as the value. If multiple variables are set,
the following order of precedence applies:

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

Client agents and [snapshot agents](/consul/docs/enterprise/backups)
may also be licensed in the very same manner.
However, to avoid the need to configure the license on many client agents and snapshot agents,
those agents have the capability to retrieve the license automatically under the conditions described below.

Virtual agents do not need the license to run.

Updating the license for an agent depends on the method you used to apply the license.
- **If you used the `CONSUL_LICENSE`
environment variable**: After updating the environment variable, restart the affected agents.
- **If you used the
`CONSUL_LICENSE_PATH`
environment variable**: Update the license file first. Then, restart the affected agents.
- **If you used the `license_path` configuration item**: Update the license file first. Then, run [`consul reload`](/consul/commands/reload) for the affected agents.

Client Agent License Retrieval

When a client agent starts without a license in its configuration or environment, it will try to retrieve the license from the servers via RPCs. That RPC always requires a valid non-anonymous ACL token to authorize the request but the token doesn't need any particular permissions. As the license is required before the client actually joins the cluster, where to make those RPC requests to is inferred from the [`retry_join`](/consul/docs/agent/config/config-files#retry_join) configuration. If `retry_join` is unset or no [`agent` token](/consul/docs/agent/config/config-files#acl_tokens_agent) is set then the client agent will immediately shut itself down.

If all preliminary checks
pass the client agent will attempt to reach out to any server on its RPC port to
request the license. These requests will be retried for up to 5 minutes and if it is unable to retrieve a license within that time frame it will shut itself down.

If ACLs are disabled then the license must be provided to the client agent through one of the three methods listed below.
Failure in providing the client agent with a licence will prevent the client agent from joining the cluster.

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

Snapshot Agent License Retrieval

The snapshot agent has similar functionality to the client agent for automatically retrieving the license. However, instead of requiring a server agent to talk to, the snapshot agent can request the license from the server or client agent it would use for all other operations. It still requires an ACL token to authorize the request. Also

like client agents,
 the snapshot agent will shut itself down after being unable to retrieve the license for 5
minutes.
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

.consul-intention-permission-list {
 .detail > div {
   display: flex;
   width: 100%;
 }
 strong {
   margin-right: 8px;
 }
}
---
layout: docs
page_title: Enterprise License FAQ
description: >-
 Review frequently asked questions (FAQs) about Consul Enterprise licenses to learn more about how licenses
work, what happens when they expire, and how to get a trial license.

Frequently Asked Questions (FAQ)

This FAQ is for the license changes introduced in Consul Enterprise version 1.10.0.
Consul Enterprise automatically loads Consul licenses when the server agent starts.

Q: Can I get a quick summary of the Consul changes?

Starting with Consul Enterprise 1.10.0, the license enablement process is different.

HashiCorp Enterprise servers will no longer start without a license. Servers require licenses to be provided from
either an environment variable or file.
If the license is missing, invalid, or expired, the server will immediately exit.
This check is part of the server boot-up process.

In previous versions of HashiCorp enterprise products, one server could distribute a license to other servers via the
 Raft protocol.
This will no longer work since each server must be able to find a valid license during the startup process.

Q: What are the upgrade requirements?

All customers on Consul Enterprise 1.8/1.9 must first upgrade their client and server agents to the latest patch
release.
During the upgrade the license file must also be configured on client agents in an environment variable or file path,

otherwise the Consul agents will fail to retrieve the license with a valid agent token.
The upgrade process varies if ACLs are enabled or disabled in the cluster.
Refer to the instructions on [upgrading to 1.10.x](/consul/docs/upgrading/instructions/upgrade-to-1-10-x) for details.

Q: Is there a tutorial available for the license configuration steps?

Please visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs).

Q: What resources are available?

The list below is a great starting point for learning more about the license
changes introduced in Consul Enterprise 1.10.0+ent.

- [Consul Enterprise Upgrade Documentation](/consul/docs/enterprise/upgrades)

- [Consul License Documentation](/consul/docs/enterprise/license/overview)

- [License configuration values documentation](/consul/docs/enterprise/license/overview#binaries-without-built-in-licenses)

- [Install a HashiCorp Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs)

Q: Do these changes impact all customers/licenses?

The license changes introduced in 1.10.0 only affect Consul Enterprise.
This impacts customers that have an enterprise binary (trial or non-trial licenses) downloaded from https://releases.hashicorp.com.
The license changes do not impact customers with the baked-in licensed binaries. In a later release of Consul Enterprise, baked-in binaries will be deprecated.

Q: What is the product behavior change introduced by the licensing changes?

Starting with Consul Enterprise 1.10.0,
a valid license is required on-disk (auto-loading) or as an environment variable for Consul Enterprise to successfully boot-up.
The in-storage license feature will not be supported starting with Consul Enterprise 1.10.0+ent. All Consul Enterprise clusters using 1.10.0+ent must ensure that there is a valid license on-disk (auto-loaded) or as an environment variable.

Q: What is the impact on trial licenses due to this change? ((#q-what-is-the-impact-on-evaluation-licenses-due-to-this-change))

Consul Enterprise 1.10.0+ server agents require a valid license to start.
The license can be provided on disk (auto-loaded) or as an environment variable.
There is no longer a 6-hour trial period in which Consul Enterprise server agents
can operate without a license.

Q: Is there a grace period when licenses expire?

YesConsul will continue normal operation and can be restarted after license *expiration* as defined in [`expiration_time`](/consul/api-docs/operator/license#getting-the-consul-license).
As
license expiration is approached or passed, Consul will issue warnings in the system logs.

Consul will only cease operation after license *termination*, which occurs 10 years
after license expiration and is defined in
[`termination_time`](/consul/api-docs/operator/license#getting-the-consul-license).

~> **Starting with Consul 1.14, and patch releases 1.13.3 and 1.12.6, Consul will support non-terminating licenses**:
Please contact your support representative for more details on non-terminating licenses.
An expired license will not allow Consul versions released after the expiration date to run.
It will not be possible to upgrade to a new version of Consul released after license expiration.

Q: Does this affect client agents?

There are upgrade requirements that affect Consul Enterprise clients.
Please review the [upgrade requirements](#q-what-are-the-upgrade-requirements) documentation.

Q: Does this affect snapshot agents?

Same behavior as Consul clients.
See answer for [Does this affect client agents?](#q-does-this-affect-client-agents)

Q: What is the behavior if the license is missing?

Consul server agents will detect the absence of the license and immediately exit.

Consul client agents will attempt to retrieve the license from servers if certain conditions are met:

- ACLs are enabled.
- An ACL token is provided to the client agent.
- The client agents configuration contains `retry_join` addresses.
- The retry join addresses are addresses of the Consul servers.

Consul snapshot agents will attempt to retrieve the license from servers if certain conditions are met: ACLs are enabled, a ACL token is provided to the client agent, the client agents configuration contains `retry_join` addresses, the retry join addresses are addresses of the Consul servers.

Q: Where can users get a trial license for Consul Enterprise?

Contact your [HashiCorp Support contact](https://support.hashicorp.com/) for a development license.

~> **Trial

install will cease operation 24 hours after 30-day license expiration**:
Trial licenses are not meant to be used in production.
This is unlike non-trial licenses which provide a 10 year grace period as described in
the answer for [Q: Is there a grace period when licenses expire?](#q-is-there-a-grace-period-when-licenses-expire).

Q: How can I renew a license?

Contact your organization's [HashiCorp account team](https://support.hashicorp.com/hc/en-us) for information on how to renew your organization's enterprise license.

Q: I'm an existing enterprise customer but don't have my license, how can I get it?

Contact your organization's [HashiCorp account team](https://support.hashicorp.com/hc/en-us) for information on how to renew your organization's enterprise license.

Q: Are the license files locked to a specific cluster?

The license files are not locked to a specific cluster or cluster node. The above changes apply to all nodes in a cluster.

Q: Will this
impact HCP Consul?

This will not impact HCP Consul.

Q: Does this need to happen every time a node restarts, or is this a one-time check?

Consul Enterprise binaries starting with 1.10.0+ent, will be subject to EULA check. Release 1.10.0+ent introduces the EULA check for trial licenses (non-trial licenses already go through EULA check during contractual agreement).

The agreement to a EULA happens only once (when the user gets their license), Consul Enterprise **will check for the presence of a valid license every time a node restarts**.

When a customer upgrades existing clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be auto-loaded.

When a customer deploys new clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be on-disk (auto-loaded).

Q: What are the scenarios that a customer must plan for because of these changes?

New Consul cluster deployments
using 1.10.0+ent will need to have a valid license on servers to successfully deploy.
This valid license must be on-disk (auto-loaded) or as an environment variable.
Please see the [upgrade requirements](/consul/docs/enterprise/license/faq#q-what-are-the-upgrade-requirements).

Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?

VM

1. Run [`consul license get -signed`](/consul/commands/license#get) to extract the license from their running cluster. Store the license in a secure location on disk.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have access to the required license. This could be via the client agent configuration file or an environment variable.
1. Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license key.
1. Follow the
 Consul upgrade [documentation](/consul/docs/upgrading).

Kubernetes

NOTE: If you are not upgrading Consul or your Helm chart version then no action is required.

1. In order to use Consul Enterprise 1.10.0 or greater on Kubernetes you must use version 0.32.0 or greater of the Helm chart.
1. You should already have a Consul Enterprise license set as a Kubernetes secret. If you do not, refer to [how to obtain a copy of your license](/consul/docs/enterprise/license/faq#q-i-m-an-existing-enterprise-customer-but-don-t-have-my-license-how-can-i-get-it).
Once you have the license then create a Kubernetes secret containing the license as described in [Kubernetes - Consul Enterprise](/consul/docs/k8s/deployment-configurations/consul-enterprise).
1. Follow the [Kubernetes Upgrade Docs](/consul/docs/k8s/upgrade) to upgrade. No changes to your `values.yaml` file are needed to enable enterprise autoloading since this support is built in to consul-helm 0.32.0 and greater.

!> **Warning:**
 If you are upgrading the Helm chart but **not** upgrading the Consul version, you must set `server.enterpriseLicense.enableLicenseAutoload: false`. See [Kubernetes - Consul Enterprise](/consul/docs/k8s/deployment-configurations/consul-enterprise) for more details.

Q: What is the migration path for customers who want to migrate from their existing perpetually-licensed binaries to the license on disk flow?

VM

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's [customer success manager](https://support.hashicorp.com/hc/en-us) (CSM) for information on how to get your organization's enterprise license.
1. Store the license in a secure location on disk.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.
  Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs)
 for detailed steps on how to install the license key.
1. Follow the Consul upgrade [documentation](/consul/docs/upgrading).

Kubernetes

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1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.
  Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license key.
1. Proceed with the `helm` [upgrade instructions](/consul/docs/k8s/upgrade)

Q: Will Consul downgrades/rollbacks work?

When downgrading to a version
 of Consul before 1.10.0+ent, customers will need to follow the previous process for applying an enterprise licenses to Consul Enterprise.

Q: Are there potential pitfalls when downgrading or upgrading Consul server instances?

~> Verify that you meet the [upgrade requirements](/consul/docs/enterprise/license/faq#q-what-are-the-upgrade-requirements).

Assume a scenario where there are three Consul server nodes:

- Node A: v1.9.5
- Node B: v1.10.0 [Leader]
- Node C: v1.9.5

The command `consul license put` is issued from Node A. This will result in an error due to how Consul routes calls to the server node, Node B in this example.
Because Node A is a follower when the call `consul license put` is issued, the call will be redirected to Node B (leader).
The `consul license put` operation will fail due to being removed from 1.10.0.
This is a scenario that could occur if a customer downgrades from 1.10.0+ and the Consul leadership has not transferred back over to a node not running 1.10.0+.
This
 also has the potential of occurring when upgrading if scheduled license updates or autoscaling groups recoveries are in place.

Q: Any impacts to Consul Kubernetes?

If you are using a Consul Enterprise version prior to 1.10.0 and decide to upgrade the Helm chart to version 0.32.0 or newer, but not the Consul version.
You will need to add the following configuration.

```
server:
 enterpriseLicense:
   enableLicenseAutoload: false
```

```
{{!
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}}

{{#if isVisible}}
 <Hds::Alert @type="inline" class='mb-3 mt-2 agentless-node-notice' data-test-node-agentless-notice as |A|>
   <A.Title>
     <span>{{t 'routes.dc.nodes.index.agentless.notice.header'}}</span>
     <Hds::Button
       @color='secondary'
       @text='Dismiss notice'
       {{on 'click' this.dismissAgentlessNotice}}
       @icon='x'
       @size='small'
       @isIconOnly={{true}}
     />
   </A.Title>
   <A.Description>{{t 'routes.dc.nodes.index.agentless.notice.body'}}</A.Description>
   <A.Link::Standalone @href='{{env "CONSUL_DOCS_DEVELOPER_URL"}}/connect/dataplane'
                       @text={{t 'routes.dc.nodes.index.agentless.notice.footer'}}
                       @icon='docs-link'
                       @iconPosition='trailing' />
 </Hds::Alert>
{{/if}}
/*!
* QUnit 2.19.4
* https://qunitjs.com/
*
* Copyright OpenJS Foundation and other contributors
* Released under the MIT license
* https://jquery.org/license
*/
{{!
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}}

<Hds::Alert @type="inline" class="mb-3 mt-2" as |A|>
 <A.Description>{{t "components.consul.intention.notice.permissions.body"}}</A.Description>
 <A.Link::Standalone
   @text={{t "components.consul.intention.notice.permissions.footer"}}
   @href="{{env 'CONSUL_DOCS_URL'}}/connect/intentions"
   @icon="docs-link"
   @iconPosition="trailing"
   @size="small"
 />
</Hds::Alert>
```

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Parameters

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```
{
 "name": "envoy.filters.http.jwt_authn",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.jwt_authn.v3.JwtAuthentication",
   "providers": {
     "auth0": {
       "issuer": "another-issuer",
       "payloadInMetadata": "jwt_payload_auth0",
       "remoteJwks": {
         "asyncFetch": {
           "fastListener": true
         },
         "httpUri": {
           "cluster": "jwks_cluster_auth0",
           "timeout": "1s",
           "uri": "https://example-auth0.com/.well-known/jwks.json"
         }
       }
     },
     "okta": {
       "issuer": "test-issuer",
       "payloadInMetadata": "jwt_payload_okta",
       "remoteJwks": {
         "asyncFetch": {
           "fastListener": true
         },
         "httpUri": {
           "cluster": "jwks_cluster_okta",
           "timeout": "1s",
           "uri": "https://example-okta.com/.well-known/jwks.json"
         }
       }
     }
   },
   "rules": [
     {

 "match": {
         "prefix": "/"
       },
       "requires": {
         "requiresAll": {
           "requirements": [
             {
               "requiresAny": {
                 "requirements": [
                   {
                     "providerName": "okta"
```

```
                },
                {
                  "allowMissingOrFailed": {}
                }
              ]
            }
          },
          {
            "requiresAny": {
              "requirements": [
                {
                  "providerName": "auth0"
                },
                {
                  "allowMissingOrFailed": {}
                }
              ]
            }
          }
        ]
      }
    }
  }
  ]
 }
}
{{!
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}}

<div
 ...attributes
 class="consul-intention-permission-form"
>
<FormGroup
 @name={{name}}
as |group|>

 {{yield (hash
   submit=(action 'submit' changeset)
   reset=(action 'reset' changeset)

   isDirty=(and changeset.isValid)
   changeset=changeset
 )}}

 <fieldset>
```

```
  <div data-property="action">
    <span class="label">
      Should this permission allow the source connect to the destination?
    </span>
    <div role="radiogroup" class={{if changeset.error.Action ' has-error'}}>
      {{#each intents as |intent|}}
        <label>
          <span>{{capitalize intent}}</span>
          <input
            type="radio"
            name="Action"
            value={{intent}}
            checked={{if (eq changeset.Action intent) 'checked'}}
            onchange={{action (changeset-set changeset 'Action') value="target.value"}}
          />
        </label>
      {{/each}}
    </div>
  </div>
</fieldset>

<fieldset>
  <header>
    <h2>Path</h2>
  </header>
  <div>
      <group.Element
        @name="PathType"
        @type="select"
      as |el|>
        <el.Label>
          Path type
        </el.Label>
        <PowerSelect
          @options={{pathTypes}}
          @selected={{pathType}}
          @onChange={{action 'change' 'HTTP.PathType' changeset}} as |Type|>
            {{get pathLabels Type}}
        </PowerSelect>
      </group.Element>

{{#if shouldShowPathField}}
      <group.Element
        @name="Path"
        @error={{changeset-get changeset 'error.HTTP.Path'}}
      as |el|>
        <el.Label>
          {{get pathLabels pathType}}
```

```
        </el.Label>
        <el.Text
          @value={{changeset-get changeset 'HTTP.Path'}}
          oninput={{action 'change' 'HTTP.Path' changeset}}
        />
        <State @state={{el.state}} @matches="error">
          <el.Error>

            {{#if (eq (changeset-get changeset 'HTTP.Path') 'Regex')}}
              Path Regex should not be blank
            {{else}}
              Path should begin with a '/'
            {{/if}}
          </el.Error>
        </State>
      </group.Element>
{{/if}}

  </div>
 </fieldset>

 <fieldset>
  <h2>Methods</h2>
  <div class="type-toggle">
    <span>All methods are applied by default unless specified</span>
    <group.Element
      @name="allMethods"
    as |el|>
      <el.Checkbox
        checked={{if allMethods 'checked'}}
        onchange={{action 'change' 'allMethods' changeset}}
      />
      <el.Label>
        All Methods
      </el.Label>
    </group.Element>
  </div>

{{#if shouldShowMethods}}
  <div class="checkbox-group" role="group">
    {{#each methods as |method|}}
      <label class="type-checkbox">
        <input
          type="checkbox"
          name="method"
          value={{method}}
```

```
  checked={{if (includes method changeset.HTTP.Methods) 'checked'}}
          onchange={{action 'change' 'method' changeset}}
        />
        <span>{{method}}</span>
      </label>
    {{/each}}
  </div>
{{/if}}
 </fieldset>

 <fieldset>
  <h2>Headers</h2>

  <Consul::Intention::Permission::Header::List
    @items={{changeset-get changeset 'HTTP.Header'}}
    @ondelete={{action 'delete' 'HTTP.Header' changeset}}
  as |headerList|>

  </Consul::Intention::Permission::Header::List>

  <Consul::Intention::Permission::Header::Form
    @onsubmit={{action 'add' 'HTTP.Header' changeset}}
  as |headerForm|>
    <Ref @target={{this}} @name="headerForm" @value={{headerForm}} />
  </Consul::Intention::Permission::Header::Form>

  <Hds::ButtonSet>
    <Hds::Button
      data-test-add-header
      @text='Add{{if (gt (get (changeset-get changeset 'HTTP.Header') 'length') 0) ' another' ''}} header'
      @color='primary'
      disabled={{if (not this.headerForm.isDirty)
 'disabled'}}
      onclick={{action this.headerForm.submit}}
    />
    <Hds::Button
      @text='Cancel'
      @color='secondary'
      onclick={{action this.headerForm.reset}}
    />
  </Hds::ButtonSet>
 </fieldset>
 </FormGroup>
</div>
```

1.2404 open-telemetry-opentelemetry-collector-contrib 0.49.0

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Also thanks to all the people who reported bugs and suggested new features.

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1.2411 githubcomgoopenapistrfmt 0.22.2

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1.2412 jsonpatch 5.8.0

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1.2413 google-golang-org-api 0.168.0

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1.2414 common 0.49.1-0.20240306132007-4199f18c3e92

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Go support for Protocol Buffers - Google's data interchange format

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1.2418 alertmanager 0.27.0

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
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package spec
```

```
import "testing"

func TestIntegrationLicense(t *testing.T) {
 license := License{Name: "the name", URL: "the url"}
 const licenseJSON = `{"name":"the name","url":"the url"}`
 const licenseYAML = "name: the name\nurl: the url\n"

 assertSerializeJSON(t, license, licenseJSON)
 assertParsesJSON(t, licenseJSON, license)
}
```

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1.2420 go-openapi-errors 0.22.0

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Version 2.1, February 1999

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NR START END SECTORS SIZE NAME UUID
1 32 7679 7648 3.7M 8f8378c0-01
2 7680 16383 8704 4.3M 8f8378c0-02
5 7936 12799 4864 2.4M
6 12544 16127 3584 1.8M

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1 32 7679 7648 3.7M 8f8378c0-01
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6 12544 16127 3584 1.8M

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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//go:build go1.10
// +build go1.10

package pq

import (
 "context"
 "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
 return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
 c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
//
 on it.
type NoticeHandlerConnector struct {
 driver.Connector
 noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
```

```
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
 c, err := n.Connector.Connect(ctx)
 if err == nil {
  SetNoticeHandler(c, n.noticeHandler)
 }
 return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  return c.noticeHandler
 }
 return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
 setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  c.noticeHandler = handler
  return c
 }
 return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
```

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localtime.go, localtime_test.go:

Originals:
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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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Included for the use of the fix_strcasecmp.c module which works
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1.2447 apparmor 2.13-7.ph3

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package spec

import (
 "encoding/json"

 "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 LicenseProps
 VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}

// UnmarshalJSON
 hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
 if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
  return err
 }
 return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
 b1, err := json.Marshal(l.LicenseProps)
 if err != nil {
  return nil, err
 }
 b2, err := json.Marshal(l.VendorExtensible)
 if err != nil {
```

```
 return nil, err
 }
 return swag.ConcatJSON(b1, b2), nil
}
```

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package spec

import (
 "encoding/json"
 "testing"

 "github.com/stretchr/testify/assert"
 "github.com/stretchr/testify/require"
)

var license = License{
 LicenseProps:     LicenseProps{Name: "the name", URL: "the url"},
```

```
 VendorExtensible: VendorExtensible{Extensions: map[string]interface{}{"x-license": "custom term"}}}

const licenseJSON = `{
 "name": "the name",
 "url": "the url",
 "x-license": "custom
 term"
}`

func TestIntegrationLicense(t *testing.T) {

 // const licenseYAML = "name: the name\nurl: the url\n"

 b, err := json.MarshalIndent(license, "", "\t")
 require.NoError(t, err)
 assert.Equal(t, licenseJSON, string(b))

 actual := License{}
 err = json.Unmarshal([]byte(licenseJSON), &actual)
 require.NoError(t, err)
 assert.EqualValues(t, license, actual)
}
```

1.2449 githubcomgoopenapistrfmt 0.23.0

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1.2457 platformdirs 2.6.2

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1.2458 ptyprocess 0.7.0

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1.2459 mypy-extensions 1.0.0

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1.2460 python-dateutil 2.9.0.post0

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1.2461 libuuid 2.37.2-4ubuntu3.4

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NR START END SECTORS SIZE NAME UUID
1 32 7679 7648 3.7M 8f8378c0-01
2 7680 16383 8704 4.3M 8f8378c0-02
5 7936 12799 4864 2.4M
6 12544 16127 3584 1.8M

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NR START END SECTORS SIZE NAME UUID
1 32 7679 7648 3.7M 8f8378c0-01
2 7680 16383 8704 4.3M 8f8378c0-02
5 7936 12799 4864 2.4M
6 12544 16127 3584 1.8M

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1.2463 mount 2.37.2-4ubuntu3.4

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NR START END SECTORS SIZE NAME UUID
1 32 7679 7648 3.7M 8f8378c0-01
2 7680 16383 8704 4.3M 8f8378c0-02
5 7936 12799 4864 2.4M
6 12544 16127 3584 1.8M

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1.2465 mergo 1.0.0

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

1.2466 kubernetes-apiserver 0.26.2

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1.2468 gettext-go 1.0.2

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1.2469 kubernetes-component-base 0.26.2

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
# This source code was written by the Go contributors.
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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
 license := License{Name: "the name", URL: "the url"}
 const licenseJSON = `{"name":"the name","url":"the url"}`
 const licenseYAML = "name: the name\nurl: the url\n"

 assertSerializeJSON(t, license, licenseJSON)
 assertParsesJSON(t, licenseJSON, license)
}
```

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1.2471 sigs.k8s.io/gateway-api 1.0.0

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Contributor Ladder

Within the Kubernetes community, the concept of a contributor ladder has been
developed to define how individuals can earn formal roles within the project.
The Gateway API contributor ladder largely follows the [roles defined by the
broader Kubernetes
community](https://github.com/kubernetes/community/blob/master/community-membership.md),
though there are some aspects that are unique to this community.

Goals

We hope that this doc will provide an initial step towards the following goals:

* Ensure the long term health of the Gateway API community
* Encourage new contributors to work towards formal roles and responsibilities in the project
* Clearly define the path towards leadership roles
* Develop a strong leadership pipeline so we have great candidates to fill project leadership roles

Scope

The following repositories are covered by this doc:

* [kubernetes-sigs/gateway-api](https://github.com/kubernetes-sigs/gateway-api)
* [kubernetes-sigs/ingress2gateway](https://github.com/kubernetes-sigs/ingress2gateway)
* kubernetes-sigs/blixt (once migration is complete)

Within each of these projects, there are opportunities to become an approver or reviewer for either the entire project, or a subset of that project. For example, you could become a reviewer or approver focused on just docs, GEPs, API changes, or conformance tests.

General Guidelines

1. Everyone is welcome

We appreciate all contributions. You dont need to have a formal role in the project to make or review pull requests, and help with issues or discussions. Accepting a formal role within the project is entirely optional.

2. These roles require continued contributions

Applying for one of the roles defined above should only be done if you intend to continue to contribute at a level that would merit that role. If for any reason you are unable to continue in one of the roles above, please resign. Members with an extended period away from the project with no activity will be removed from the Kubernetes GitHub Organizations and will be required to go through the org membership process again after re-familiarizing themselves with the current state.

3. Dont merge without consensus

If you have reason to believe that a change may be contentious, please wait for additional perspectives from others before merging any PRs. Even if you have

access to merge a PR, it doesnt mean you should. Although we cant have PRs blocked indefinitely, we need to make sure everyone has had a chance to present their perspective.

4. Start a discussion

If youre interested in working towards one of these roles, please reach out to a Gateway API maintainer on Slack.

Contributor Ladder

The Gateway API contributor ladder has the following steps:

1. Member
2. Reviewer
3. Approver
4. Maintainer

This is also a GAMMA-specific leadership role that does not fit as cleanly on this ladder. All of these roles will be defined in more detail below.

Member, Reviewer,
 and Approver

The first steps on the contributor ladder are already [clearly defined in the upstream Kubernetes Community](https://github.com/kubernetes/community/blob/master/community-membership.md#community-membership).
Gateway API follows those guidelines along with the rest of the Kubernetes community. Within Gateway API, there are a variety of areas one can become a reviewer or approver, this includes:

* Conformance
* Documentation
* GEPs
* Webhook Validation

Maintainers and GAMMA Leads

The final steps on the contributor ladder represent large overall leadership roles within the project as a whole. The spaces available for these roles are limited (generally 3-4 people in each role is ideal). Wherever possible, we try to ensure that different companies are represented in these roles.

Maintainers

Gateway API Maintainers are known as [Subproject Owners](https://github.com/kubernetes/community/blob/master/community-membership.md#subproject-owner)

within the Kubernetes community.
To become a Gateway API Maintainer, the most
important things we expect are:

* Long term, sustained contributions to Gateway API for at least 6 months
* Deep understanding of technical goals and direction of the project
* Successfully authored and led significant enhancement proposals
* Approver for at least 3 months
* Ability to lead community meetings

In addition to all of the expectations described above, we expect maintainers to
set the technical direction and goals for the project. This role is critical to
the health of the project, maintainers should mentor new approvers and
reviewers, and ensure that there are healthy processes in place for discussion
and decision making. Finally, maintainers are ultimately responsible for
releasing new versions of the API.

GAMMA Leads

The concept of GAMMA Leads does not have a perfect parallel on the upstream
Kubernetes community ladder. They are essentially Subproject Owners, but for the
GAMMA initiative, which is a major initiative
within Gateway API.

To become a GAMMA lead, the most important thing we expect are:

* Significant experience with Service Mesh implementation(s)
* Deep understanding of technical goals and direction of the project
* Long term, sustained contributions to the GAMMA initiative for at least 6 months
* Ability to lead community meetings

In addition to all of the expectations described above, we expect GAMMA Leads to
set the technical direction and goals for the GAMMA initiative. They should
ensure that there are healthy processes in place for discussion and decision
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1.2472 x-sys 0.19.0

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1.2473 x-net 0.24.0

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1.2474 eject 2.37.2-4ubuntu3.4

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1    32  7679    7648 3.7M      8f8378c0-01
2  7680 16383    8704 4.3M      8f8378c0-02
5  7936 12799    4864 2.4M
6 12544 16127    3584 1.8M
```

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DAMAGE.
x ?"U@,5 @mISmIN<GimCN7g1u|E
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1.2482 gonum 0.15.0

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1.2483 jsonpatch 5.9.0+incompatible

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1.2484 gettext-go 1.0.2

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1.2485 gnutls 3.7.3-4ubuntu1.5

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version 0.1
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1.2491 armon-go-metrics 0.4.1

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1.2492 semver 4.0.0

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1.2494 jaraco-functools 4.0.1

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1.2495 autorest 0.5.12

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1.2496 kubernetes-apimachinery 0.30.0

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1.2497 kubernetes-client 0.30.0

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1.2500 locales 0.14.1

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1.2501 universal-translator 0.18.1

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1.2502 google-golang-org-grpc 1.63.2

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1.2504 github.com/pierrec/lz4/v4 4.1.21

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1.2505 compress 1.17.7

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1.2512 gomemcache 0.0.0-20240229205252-cd6a66d6fb56

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1.2513 kubernetes-apimachinery 0.28.6

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1.2514 @isaacs/fs-minipass 4.0.1

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1.2515 minizlib 3.0.1

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1.2518 github.com/masterminds/sprig/v3 3.2.3

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1.2522 githubcomgolangprotobuf 1.5.3

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```
import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root
```

1.2524 githubcomfsnotifyfsnotify 1.6.0

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1.2526 go-opencensus-io 0.24.0

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1.2533 github.com/goccy/go-json 0.10.2

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1.2537 github.com/google/s2a-go 0.1.7

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1.2538 github.com/googleapis/enterprise-certificate-proxy 0.3.2

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1.2545 github.com/google/gnostic-models 0.6.8

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1.2552 github.com/xhit/go-str2duration/v2 2.1.0

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1.2553 mongo-driver 1.12.0

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1.2558 githubcomgoopenapispec 0.20.9

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package spec

import (
 "encoding/json"
 "testing"

 "github.com/stretchr/testify/assert"
)

var license = License{
 LicenseProps:     LicenseProps{Name: "the name", URL: "the url"},
 VendorExtensible: VendorExtensible{Extensions: map[string]interface{}{"x-license": "custom term"}}}

const licenseJSON = `{
 "name": "the name",
 "url": "the url",
 "x-license": "custom term"
}`

func TestIntegrationLicense(t
 *testing.T) {

 // const licenseYAML = "name: the name\nurl: the url\n"

 b, err := json.MarshalIndent(license, "", "\t")
 if assert.NoError(t, err) {
  assert.Equal(t, licenseJSON, string(b))
 }

 actual := License{}
```

```
 err = json.Unmarshal([]byte(licenseJSON), &actual)
 if assert.NoError(t, err) {
  assert.EqualValues(t, license, actual)
 }
}
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package spec

import (
 "encoding/json"

 "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 LicenseProps
 VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}

// UnmarshalJSON
 hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
 if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
  return err
 }
 return json.Unmarshal(data, &l.VendorExtensible)
```

```
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
 b1, err := json.Marshal(l.LicenseProps)
 if err != nil {
  return nil, err
 }
 b2, err := json.Marshal(l.VendorExtensible)
 if err != nil {
  return nil, err
 }
 return swag.ConcatJSON(b1, b2), nil
}
```

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1.2559 go-querystring 1.1.0

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1.2561 github.com/kolo/xmlrpc 0.0.0-20220921171641-a4b6fa1dd06b

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1.2567 common 0.46.0

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1.2568 github.com/golang-sql/sqlexp 0.1.0

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1.2569 github.com/golang-sql/civil 0.0.0-20220223132316-b832511892a9

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1.2570 stdlib go1.22.2

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1.2572 websocket-client 1.8.0

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1.2573 github.com/cloudflare/circl 1.3.7

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1.2574 github.com/tklauser/numcpus 0.6.1

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1.2575 github.com/cyphar/filepath-securejoin 0.2.4

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1.2576 github.com/tklauser/go-sysconf 0.3.12

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1.2577 github.com/godbus/dbus/v5 5.1.0

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1.2578 githubcomgooglebtree 1.1.2

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1.2579 github.com/klauspost/cpuid/v2 2.2.5

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1.2580 github.com/protonmail/go-crypto 0.0.0-20230828082145-3c4c8a2d2371

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1.2581 google.golang.org/genproto/googleapis/rpc 0.0.0-20240102182953-50ed04b92917

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1.2582 github.com/go-jose/go-jose/v3 3.0.3

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1.2584 go-autorest 0.9.23

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1.2585 go.uber.org/atomi 1.11.0

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1.2586 github.com/fatih/camelcase 1.0.0

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1.2588 github.com/zeebo/xxh3 1.0.2

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1.2589 github.com/mdlayher/socket 0.4.1

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1.2590 gopkg.in/ini.v1 1.67.0

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1.2591 gopkg-in-alecthomas-kingpin-v2 2.2.6

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1.2593 gopkg.in/warnings 0.1.2

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1.2595 json iterator go 1.1.12

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1.2596 go-grpc 0.0.0-20210225150812-73cb765af46e

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1.2597 go-stdlib 1.0.0

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1.2603 sirupsen-logrus 1.9.3

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1.2604 x-time 0.5.0

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1.2605 rcrowley-gometrics 0.0.0-20201227073835-cf1acfcdf475

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1.2606 pq 1.10.9

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```
//go:build go1.10
// +build go1.10

package pq

import (
 "context"
 "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
 return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
 c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
//
 on it.
type NoticeHandlerConnector struct {
 driver.Connector
 noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
 c, err := n.Connector.Connect(ctx)
 if err == nil {
  SetNoticeHandler(c, n.noticeHandler)
 }
```

```
 return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  return c.noticeHandler
 }
 return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
 setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  c.noticeHandler = handler
  return c
 }
 return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
```

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1.2607 yaml 3.0.1

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```

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1.2608 spf13-cast 1.5.1

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1.2609 spf13-cobra 1.7.0

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1.2611 sigs-k8s-io-yaml 1.3.0

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1.2612 sigs.k8s.io/json 0.0.0-20221116044647-bc3834ca7abd

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1.2613 stretchr-testify 1.8.4

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1.2617 serf 0.10.1

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1.2622 spf13-afero 1.9.5

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1.2623 prometheus-common 0.53.0

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1.2641 github.com/euank/go-kmsg-parser 2.0.0+incompatible

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validate-npm-package-license
==========

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```javascript

var assert = require('assert');
var validSPDXExpression = {
 validForNewPackages: true,
 validForOldPackages: true,
 spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```
The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
assert.deepEqual(
 valid('Apache 2.0'),
 {
   validForOldPackages: false,
   validForNewPackages: false,
   warnings: [
     'license should be ' +
     'a valid SPDX license expression (without "LicenseRef"), ' +
     '"UNLICENSED", or ' +
      '"SEE LICENSE IN <filename>"',
     'license is similar to the valid expression "Apache-2.0"'
   ]
 }
);
```

SPDX expressions are valid, too ...

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
 valid('(GPL-3.0-only OR BSD-2-Clause)'),
 validSPDXExpression
);
```

... except if they contain `LicenseRef`:

```javascript
var warningAboutLicenseRef = {
 validForOldPackages: false,
```

```
 validForNewPackages: false,
 spdx: true,
 warnings: [
   'license should be ' +
   'a valid SPDX license expression (without "LicenseRef"), ' +
   '"UNLICENSED", or ' +
   '"SEE LICENSE IN <filename>"',
 ]
};

assert.deepEqual(
 valid('LicenseRef-Made-Up'),
 warningAboutLicenseRef
);

assert.deepEqual(
 valid('(MIT OR LicenseRef-Made-Up)'),
 warningAboutLicenseRef
);
```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```javascript
assert.deepEqual(
 valid('SEE
 LICENSE IN LICENSE.txt'),
 {
   validForNewPackages: true,
   validForOldPackages: true,
   inFile: 'LICENSE.txt'
 }
);

assert.deepEqual(
 valid('SEE LICENSE IN license.md'),
 {
   validForNewPackages: true,
   validForOldPackages: true,
   inFile: 'license.md'
 }
);
```

If there aren't any licensing terms, use `UNLICENSED`:

```javascript
```

```
var unlicensed = {
 validForNewPackages: true,
 validForOldPackages: true,
 unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```

1.2676 color-name 1.1.3

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1.2679 range-parser 1.2.1

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1.2691 etag 1.8.1

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1.2728 tar 6.2.1

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1.2733 glob 7.2.0

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1.2734 is-glob 4.0.3

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1.2735 randombytes 2.1.0

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1.2736 javax-annotation-api 1.3.2

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1.2739 prometheus-client-model 0.3.0

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1.2750 fastest-levenshtein 1.0.16

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1.2755 k8s-io-apiextensions-apiserver 0.30.0

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1.2757 k8s-io-apiserver 0.30.0

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1.2769 x-text 0.15.0

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1.2770 golang-org-x-exp 0.0.0-20240506185415-9bf2ced13842

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1.2771 code-hex-go-generics-cache 1.5.1

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1.2772 x-oauth2 0.20.0

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1.2773 path-scurry 1.11.1

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1.2774 kubernetes-apiserver 0.30.0

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1.2775 googlecloudgolongrunning 0.5.5

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```
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test
```

```
import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
```

```
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
```

```
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
```

```
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
 }
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range
 values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
```

```
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown
 in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.32.0
//  protoc        v4.23.2
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb
```

```
import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
```

```
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
```

```
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":           1,
  "WRITER":          2,
  "READER":          3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
```

```
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}
```

```
func (*Permission) ProtoMessage() {}

func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
```

```
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
 0x0b, 0x67,
 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
 0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
 0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
```

```
 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
 0x64,
 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
 0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []interface{}{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
```

```
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init()
 }
func file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v interface{}, i int)
interface{} {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []interface{}{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:           file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes:
```

```
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:         file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()
```

```
 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
```

```
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
// Copyright 2024 Google LLC
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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)
```

```
var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
```

```
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 SetIamPolicy: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 TestIamPermissions: []gax.CallOption{
  gax.WithTimeout(600000
* time.Millisecond),
 },
}
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
```

```
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}
```

```
// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string
```

```
 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}
```

```
//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{"x-goog-api-client", gax.XGoogHeader(kv...)}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close();
 err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v",
```

```
"project", url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if
err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
```

```
  project: req.GetProject(),
  },
 }
 return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds
 = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }
```

```
  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return
 err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
```

```
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf,
 err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
```

```
 return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.RequestId != nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery
= params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if
err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }
```

```
 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest,
 opts ...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
```

```
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.Filter != nil {
  params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
 }
 if req != nil && req.MaxResults != nil {
  params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
 }
 if
req != nil && req.OrderBy != nil {
  params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req != nil && req.PageToken != nil {
  params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err
= googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
```

```
    return err
   }

   if err := unm.Unmarshal(buf, resp); err != nil {
    return err
   }

   return nil
  }, opts...)
  if e != nil {
   return nil, "", e
  }
  it.Response = resp
  return resp.GetItems(), resp.GetNextPageToken(), nil
 }

 fetch := func(pageSize int, pageToken string) (string, error) {
  items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
  if err != nil {
   return "", err
  }
  it.items = append(it.items, items...)
  return nextPageToken, nil
 }

 it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
 it.pageInfo.MaxSize = int(req.GetMaxResults())
 it.pageInfo.Token = req.GetPageToken()

 return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud
 Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
```

```
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
```

```
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource
 is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx,
 hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers
```

```
 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return
nil, e
}
return resp, nil
}
```

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Support for streaming Protocol Buffer messages for the Go language (golang).
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1.2781 kubernetes-cliruntime 0.30.0

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1.2782 github.com/azure/azure-sdk-for-go/sdk/azcore 1.11.1

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1.2788 cors 1.11.0

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1.2789 grpc-gateway 2.20.0

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1.2790 github.com/grpc-ecosystem/grpc-gateway/v2 2.20.0

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1.2791 utf8proc 2.7.0-3

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1.2792 python-idna 3.3-1ubuntu0.1

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1.2796 go-pkcs11uri 0.0.0-20230803200340-78284954bff6

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"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all

other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

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END OF TERMS AND CONDITIONS

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To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

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Intellectual Property Rights (IPR) Policy

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1. INTRODUCTION

The OASIS Intellectual Property Rights (IPR) Policy governs the treatment of intellectual property in the production of deliverables by OASIS Open (hereafter referred to as OASIS).

This Policy applies to all members of OASIS and their Affiliates (as defined below). The OASIS Board of Directors may amend this Policy at any time in its sole discretion. In the event of such change to this Policy, the Board will provide instructions for transition of membership and Technical Committees to the new Policy; however, no amendment to this Policy will be effective in less than 60 calendar days from the date that written notice of such amendment is given to the Member at its address of record with OASIS.

2. DEFINITIONS

Each capitalized term within this document shall have the meaning provided below:

Affiliate any entity that directly or indirectly controls, is controlled by, or is under common control with, another entity, so long as such control exists. In the event that such control ceases to exist, such Affiliate will be deemed to have withdrawn from OASIS pursuant to the terms set forth in the withdrawal provisions in Section 11. For purposes of this definition, with respect to a business entity, control means direct or indirect beneficial ownership of or the right to exercise (i) greater than fifty percent (50%) of the voting stock or equity in an entity; or (ii) greater than fifty percent (50%) of the ownership interest representing the right to make the decisions for the subject entity in the event that there is no voting stock or equity.

Beneficiary any organization, including its Affiliates as defined in this Policy, or individual who benefits from the OASIS Non-Assertion Covenant with respect to Essential Claims from Obligated Parties for a particular OASIS Standards Final Deliverable. A Beneficiary need not be an OASIS member.

Continuing Licensing or Non-Assertion Obligation a licensing or non-assertion obligation, of the types defined by

Section 9 of this Policy, which survives a TC Partys withdrawal from an OASIS Technical Committee.
Contribution any material submitted to an OASIS Technical Committee by a TC Member in writing or electronically, whether in an in-person meeting or in any electronic conference or mailing list maintained by OASIS for the OASIS Technical Committee and which is or was proposed for inclusion in an OASIS Deliverable.
Contribution Obligation a licensing or non-assertion requirement, as described in Section 10 that results from making a Contribution as described in Section 9.1.
Contributor a TC
Party on whose behalf a Contribution is made by the TC Partys TC Member.
Covered Product includes only those specific portions of a product (hardware, software or combinations thereof) that (a) implement and are compliant with all Normative Portions of an OASIS Standards Final Deliverable produced by a Non-Assertion Mode TC that must be implemented to comply with such deliverable, and (b) to the extent that the product implements one or more optional portions of such deliverable, those portions that implement and are compliant with all Normative Portions that must be implemented to comply with such optional portions of the deliverable.
Eligible Person one of a class of individuals that include: persons holding individual memberships in OASIS, employees or designees of organizational members of OASIS, and such other persons as may be designated by the OASIS Board of Directors.
Essential Claims those claims in any patent or patent application in any jurisdiction in the world that would necessarily be infringed by an implementation of those portions of a particular OASIS Standards Final Deliverable created within the scope of the TC charter in effect at the time such deliverable was developed. A claim is necessarily infringed hereunder only when it is not possible to avoid infringing it because there is no non-infringing alternative for implementing the Normative Portions of that particular OASIS Standards Final Deliverable. Existence of a non-infringing alternative shall be judged based on the state of the art at the time the OASIS Standards Final Deliverable is approved.
Feedback any written or electronic input provided to an OASIS Technical Committee by individuals who are not TC Members and which is proposed for inclusion in an OASIS Deliverable. All such Feedback must be made under the terms of the Feedback License (Appendix A).
Final Maintenance Deliverable Any OASIS Standards Final Deliverable that results entirely from Maintenance Activity.
IPR Mode an element
of an OASIS TC charter, which specifies the type of licenses or non-assertion covenants required for any Essential Claims associated with the output produced by a given Technical Committee. This is further described in Section 4.
Licensed Products include only those specific portions of a Licensees products (hardware, software or combinations thereof) that (a) implement and are compliant with all Normative Portions of an OASIS Standards Final Deliverable that must be implemented to comply with such deliverable, and (b) to the extent that the Licensees products implement one or more optional portions of such deliverable, those portions of Licensees products that implement and are compliant with all Normative Portions that must be implemented to comply with such optional portions of the deliverable.
Licensee any organization, including its Affiliates as defined in this Policy, or individual that licenses Essential Claims from Obligated Parties for a particular OASIS Standards Final
Deliverable. Licensees need not be OASIS members.
Maintenance Activity Any drafting or development work to modify an OASIS Standards Final Deliverable that (a) constitutes only error corrections, bug fixes or editorial formatting changes to the OASIS Standards Final Deliverable; and (b) does not add any feature; and (c) is within the scope of the TC that approved the OASIS Standards Final Deliverable (whether or not the work is conducted by the same TC).
Normative Portion a portion of an OASIS Standards Final Deliverable that must be implemented to comply with such deliverable. If such deliverable defines optional parts, Normative Portions include those portions of the optional part that must be implemented if the implementation is to comply with such optional part. Examples and/or

reference implementations and other specifications or standards that were developed outside the TC and which are referenced in the body of a particular OASIS Standards Final Deliverable that may be included in such deliverable are not Normative Portions.

Non-Assertion Mode TC an OASIS TC that is chartered under the Non-Assertion IPR Mode described in Section 4.

OASIS Deliverable a work product developed by a Technical Committee within the scope of its charter which is enumerated in and developed in accordance with the OASIS Technical Committee Process.

OASIS Standards Draft Deliverable an OASIS Deliverable that has been designated and approved by a Technical Committee as an OASIS Standards Draft Deliverable and which is enumerated in and developed in accordance with the OASIS Technical Committee Process.

OASIS Standards Final Deliverable an OASIS Deliverable that has been designated and approved by a Technical Committee as an OASIS Standards Final Deliverable and which is enumerated in and developed in accordance with the OASIS Technical Committee Process.

OASIS Party a member of OASIS (i.e., an entity that has executed an OASIS Membership Agreement) and its Affiliates.

OASIS TC Administrator the person(s) appointed to represent OASIS in administrative matters relating to TCs as provided by the OASIS Technical Committee Process.

OASIS Technical Committee (TC) a group of Eligible Persons formed, and whose actions are conducted, according to the provisions of the OASIS Technical Committee Process.

OASIS Technical Committee Process the OASIS OPEN TECHNICAL COMMITTEE PROCESS, as from time to time amended, which describes the operation of Technical Committees at OASIS.

Obligated Party a TC Party that incurs a licensing or non-assertion obligation for its Essential Claims by either a Contribution Obligation or a Participation Obligation.

Participation Obligation a licensing or non-assertion requirement, as described in Section 10, that arises from membership in an OASIS Technical Committee, as described in Section 9.2.

RAND Mode TC an OASIS TC that is chartered under the RAND IPR Mode described in Section 4.

RF Mode TC an OASIS TC that is chartered under one of the RF IPR Modes described in Section 4.

TC Member an Eligible Person who has completed the requirements to join a TC during the period in which s/he maintains his or her membership as described by the OASIS Technical Committee Process. A TC Member may represent the interests of a TC Party in the TC.

TC Party an OASIS Party that is, or is represented by, a TC Member in the relevant Technical Committee.

3. CONFIDENTIALITY

Neither Contributions nor Feedback that are subject to any requirement of confidentiality may be considered in any part of the OASIS Technical Committee Process. All Contributions and Feedback will therefore be deemed to have been submitted on a non-confidential basis, notwithstanding any markings or representations to the contrary, and OASIS shall have no obligation to treat any such material as confidential.

4. TC FORMATION

At the time a TC is chartered, the proposal to form the TC must specify the IPR Mode under which the Technical Committee will operate.

This Policy describes the following IPR Modes:

RAND requires all Obligated Parties to license their Essential Claims using the RAND licensing elements described in Section 10.1.

RF on RAND Terms requires all Obligated Parties to license their Essential Claims using the RF licensing elements

described in Sections 10.2.1 and 10.2.2.
RF on Limited Terms requires all Obligated Parties to license their Essential Claims using the RF licensing elements described in Sections 10.2.1 and 10.2.3.
Non-Assertion requires all Obligated Parties to provide an OASIS Non-Assertion Covenant as described in Section 10.3.
A TC may not change its IPR Mode without closing and submitting a new charter.

5. CONTRIBUTIONS

5.1 General

At the time of submission of a Contribution for consideration by an OASIS Technical Committee, each named co-Contributor (and its respective Affiliates) is deemed to agree to the following terms and conditions and to make the following representations (based on the actual knowledge
of the TC Member(s) making the Contribution, with respect to items 3 5 below, inclusive):

OASIS has no duty to publish or otherwise use or disseminate any Contribution.
OASIS may reference the name(s) of the Contributor(s) for the purpose of acknowledging and publishing the Contribution.
The Contribution properly identifies any holders of copyright interests in the Contribution.
No information in the Contribution is confidential, and OASIS may freely disclose any information in the Contribution.
There are no limits to the Contributors ability to make the grants, acknowledgments, and agreements required by this Policy with respect to such Contribution.
5.2 Copyright Licenses

To the extent that a Contributor holds a copyright interest in its Contribution, such Contributor grants to OASIS a perpetual, irrevocable, non-exclusive, royalty-free, worldwide copyright license, with the right to directly and indirectly sublicense, to copy, publish, and distribute the Contribution in any
way, and to prepare derivative works that are based on or incorporate all or part of the Contribution solely for the purpose of developing and promoting the OASIS Deliverable and enabling (subject to the rights of the owners of any Essential Claims) the implementation of the same by Licensees or Beneficiaries.
To the extent that a Contribution is subject to copyright by parties that are not Contributors, the submitter(s) must provide OASIS with a signed Copyright License Grant (Appendix B) from each such copyright owner whose permission would be required to permit OASIS to exercise the rights described in Appendix B.
5.3 Trademarks

Trademarks or service marks that are not owned by OASIS shall not be used by OASIS, except as approved by the OASIS Board of Directors, to refer to work conducted at OASIS, including the use in the name of an OASIS TC, an OASIS Deliverable, or incorporated into such work.
No OASIS Party may use an OASIS trademark or service mark in connection with an OASIS
Deliverable or otherwise, except in compliance with such license and usage guidelines as OASIS may from time to time require.
6. LIMITED PATENT COVENANT FOR DELIVERABLE DEVELOPMENT

To permit TC Members and their TC Parties to develop implementations of OASIS Standards Draft Deliverables being developed by a TC, each TC Party represented by a TC Member in a TC, at such time that the TC Member joins the TC, grants to each other TC Party in that TC automatically and without further action on its part, and on an

ongoing basis, a limited covenant not to assert any Essential Claims required to implement such OASIS Standards Draft Deliverable and covering making or using (but not selling or otherwise distributing) an implementation of such OASIS Standards Draft Deliverable, solely for the purpose of testing and developing such deliverable and only until either the OASIS Standards Draft Deliverable is approved as an OASIS Standards Final Deliverable or the Technical Committee is closed.

7.
FEEDBACK

OASIS encourages Feedback to OASIS Deliverables from both OASIS Parties who are not TC Parties and the public at large. Feedback will be accepted only under the Feedback License (Appendix A).
OASIS will require that submitters of Feedback agree to the terms of the Feedback License before transmitting submitted Feedback to the Technical Committee.
8. DISCLOSURE

Disclosure Obligations Each TC Party shall disclose to OASIS in writing the existence of all patents and/or patent applications owned or claimed by such TC Party that are actually known to the TC Member directly participating in the TC, and which such TC Member believes may contain any Essential Claims or claims that might become Essential Claims upon approval of an OASIS Standards Final Deliverable as such document then exists (collectively, Disclosed Claims).
Disclosure of Third Party Patent Claims Each TC Party whose TC Members become aware of patents or patent applications owned or claimed by a third party that
contain claims that might become Essential Claims upon approval of an OASIS Standards Final Deliverable should disclose them, provided that such disclosure is not prohibited by any confidentiality obligation binding upon them. It is understood that any TC Party that discloses third party patent claims to OASIS does not take a position on the essentiality or relevance of the third party claims to the OASIS Standards Final Deliverable in its then-current form. In both cases (Sections 8.1 and 8.2), it is understood and agreed that such TC Party(s) TC Member(s) do not represent that they know of all potentially pertinent claims of patents and patent applications owned or claimed by the TC Party or any third parties. For the avoidance of doubt, while the disclosure obligation under Sections 8.1 and 8.2 applies directly to all TC Parties, this obligation is triggered based on the actual knowledge of the TC Partys TC Members regarding the TC Partys patents or patent applications that may contain
Essential Claims.

Disclosure Requests Disclosure requests will be included as described in Section 12 with all public review copies of OASIS Standards Final Deliverables. All OASIS Parties are encouraged to review such OASIS Standards Final Deliverables and make appropriate disclosures.
Limitations A disclosure request and the obligation to disclose set forth above do not imply any obligations on the recipients of disclosure requests (collectively or individually) or on any OASIS Party to perform or conduct patent searches. Nothing in this Policy nor the act of receiving a disclosure request for an OASIS Standards Final Deliverable, regardless of whether it is responded to, shall be construed or otherwise interpreted as any kind of express or implied representation with respect to the existence or non-existence of patents or patent applications which contain Essential Claims, other than that such TC Party has acted in good faith with respect to its disclosure obligations.
Information
Any disclosure of Disclosed Claims shall include (a) in the case of issued patents and published patent applications, the patent or patent application publication number, the associated country and, as reasonably practicable, the relevant portions of the applicable OASIS Standards Final Deliverable; and (b) in the case of unpublished patent applications, the existence of the unpublished application and, as reasonably practicable, the

relevant portions of the applicable OASIS Standards Final Deliverable.
9. TYPES OF OBLIGATIONS

9.1 Contribution Obligation

A TC Party has a Contribution Obligation, which arises at the time the Contribution is submitted to a TC, to license or provide under non-assertion covenants as appropriate for the IPR mode described in Section 10, any claims under its patents or patent applications that become Essential Claims when such Contribution is incorporated (either in whole or in part) into (a) the OASIS Standards Final Deliverable produced by the TC that received the Contribution, or (b) any Final Maintenance Deliverable with respect to that OASIS Standards Final Deliverable.

9.2 Participation Obligation

A TC Party has a Participation Obligation to license or provide under non-assertion covenant as appropriate for the IPR mode, as described in Section 10, any claims under its patents or patent applications that would be Essential Claims in the then current OASIS Standards Draft Deliverable, if that draft subsequently becomes an OASIS Standards Final Deliverable, even if the TC Party is not a Contributor, when all of the following conditions are met:

An OASIS Standards Final Deliverable is finally approved that incorporates such OASIS Standards Draft Deliverable, either in whole or in part;
The TC Party has been on, or has been represented by TC Member(s) on such TC for a total of sixty (60) calendar days, which need not be continuous;
The TC Party is on, or is represented by TC Member(s) on such TC after a period of seven (7) calendar days after the ballot to approve such OASIS Standards Draft Deliverable has elapsed.
Once the foregoing conditions are met, that TC Partys Participation Obligation so to license or provide a non-assertion covenant continues with respect to that OASIS Standards Final Deliverable, and any Final Maintenance Deliverable subsequently approved with respect to that OASIS Standards Final Deliverable.

For organizational TC Parties, the membership threshold is met by one or more employees or organizational designees of such Parties having been a TC Member on any 60 calendar days, although any given calendar day is only one day of membership, regardless of the number of participants on that day.

Each time a new OASIS Standards Draft Deliverable is approved by the TC, the Participation Obligation adjusts to encompass the material in the latest OASIS Standards Draft Deliverable seven days after such draft has been approved for publication.

10. LICENSING REQUIREMENTS

10.1 RAND Mode TC Requirements

For an OASIS Standards Final Deliverable developed by a RAND Mode TC, except where a Licensee has a separate, signed agreement under which the Essential Claims are licensed to such Licensee on more favorable terms and conditions than set forth in this section (in which case such separate signed agreement shall supersede this Limited Patent License), each Obligated Party in such TC hereby covenants that, upon request and subject to Section 11, it will grant to any OASIS Party or third party: a nonexclusive, worldwide, non-sublicensable, perpetual patent license (or an equivalent non-assertion covenant) under its Essential Claims covered by its Contribution Obligations or

Participation Obligations on fair, reasonable, and non-discriminatory terms to make, have made, use, market, import, offer to sell, and sell, and to otherwise directly or indirectly distribute (a) Licensed Products that implement such OASIS Standards Final Deliverable, and (b) Licensed Products that implement any Final Maintenance Deliverable with respect to that OASIS Standards Final Deliverable. Such license need not extend to features of a Licensed Product that are not required to comply with the Normative Portions of such OASIS Standards Final Deliverable or Final Maintenance Deliverable. For the sake of clarity, the rights set forth above include the right to directly or indirectly authorize a third party to make unmodified copies of the Licensees Licensed Products and to license (optionally under the third partys license) the Licensees Licensed Products within the scope of, and subject to the terms of, the Obligated Partys license.

At the election of the Obligated Party, such license may include a term requiring the Licensee to grant a reciprocal license to its Essential Claims (if any) covering the same OASIS Standards Final Deliverable and any such Final Maintenance Deliverable. Such term may require the Licensee to grant licenses to all implementers of such deliverable. The Obligated Party may also include a term providing that such license may be suspended with respect to the Licensee if that Licensee first sues the Obligated Party for infringement by the Obligated Party of any of the Licensees Essential Claims covering the same OASIS Standards Final Deliverable or any such Final Maintenance Deliverable.

License terms that are fair, reasonable, and non-discriminatory beyond those specifically mentioned above are left to the Licensees and Obligated Parties involved.

10.2 RF Mode TC Requirements

10.2.1 Common

For an OASIS Standards Final Deliverable developed by an RF Mode TC, except where a Licensee has a separate, signed agreement under which the Essential Claims are licensed to such Licensee on more favorable terms and conditions than set forth in this section (in which case such separate signed agreement shall supersede this Limited Patent License), each Obligated Party in such TC hereby covenants that, upon request and subject to Section 11, it will grant to any OASIS Party or third party: a nonexclusive, worldwide, non-sublicensable, perpetual patent license (or an equivalent non-assertion covenant) under its Essential Claims covered by its Contribution Obligations or Participation Obligations without payment of royalties or fees, and subject to the applicable Section 10.2.2 or 10.2.3, to make, have made, use, market, import, offer to sell, and sell, and to otherwise directly or indirectly distribute (a) Licensed Products that implement such OASIS Standards Final Deliverable, and (b) Licensed Products that implement any Final Maintenance Deliverable with respect to that OASIS Standards Final Deliverable. Such license need not extend to features of a Licensed Product that are not required to comply with the Normative Portions of such OASIS Standards Final Deliverable or Final Maintenance Deliverable. For the sake of clarity, the rights set forth above include the right to directly or indirectly authorize a third party to make unmodified copies of the Licensees Licensed Products and to license (optionally under the third partys license) the Licensees Licensed Products, within the scope of, and subject to the terms of, the Obligated Partys license.

At the election of the Obligated Party, such license may include a term requiring the Licensee to grant a reciprocal license to its Essential Claims (if any) covering the same OASIS Standards Final Deliverable and any such Final Maintenance Deliverable. Such term may require the Licensee to grant licenses to all implementers of such deliverable. The Obligated Party may also include a term providing that such license may be suspended with respect to the Licensee if that Licensee first sues the Obligated Party for infringement by the Obligated Party of any of the Licensees Essential Claims covering the same OASIS Standards Final Deliverable and any such Final Maintenance

Deliverable.

10.2.2 RF on RAND Terms

With TCs operating under the RF on RAND Terms IPR Mode, license terms that are fair, reasonable, and non-discriminatory beyond those specifically mentioned in Section 10.2.1 may also be included, and such additional RAND terms are left to the Licensees and Obligated Parties involved.

10.2.3 RF on Limited Terms

With TCs operating under the RF on Limited Terms IPR Mode, Obligated Parties may not impose any further conditions or restrictions beyond those specifically mentioned in Section 10.2.1 on the use of any technology or intellectual property rights, or other restrictions on behavior of the Licensee, but may include reasonable, customary terms relating to operation or maintenance of the license relationship, including the following: choice of law and dispute resolution.

10.3. Non-Assertion Mode TC Requirements

10.3.1. For an OASIS Standards Final Deliverable developed by a Non-Assertion Mode TC, and any Final Maintenance Deliverable with respect to that OASIS Standards Final Deliverable, each Obligated Party in such TC hereby makes the following world-wide OASIS Non-Assertion Covenant.

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1.2804 python-requests 2.32.3

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1.2805 glibc 2.35-0ubuntu3.8

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source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

@item
A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a ``work that uses the Library''. Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a ``work that uses the Library'' with the Library
creates an executable that is a derivative of the Library (because
it
contains portions of the Library), rather than a ``work that uses the
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Section 6 states terms for distribution of such executables.

When a ``work that uses the Library'' uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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Otherwise,
if the work is a derivative of the Library, you may
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@item
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@enumerate a
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@item
Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable,
and (2) will operate
properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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@item
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@end enumerate

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E4-C7-67 (hex) Intel Corporate
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E0C2B7
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50F222 (base 16) EM Microelectronic
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E87072 (base 16) Hangzhou BroadLink Technology Co.,Ltd
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34-5E-08 (hex) Roku, Inc
345E08 (base 16) Roku, Inc
1155 Coleman Ave
San Jose CA 95110
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D87766 (base 16) Nurivoice Co., Ltd
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523808
CN

54-44-3B (hex) HUAWEI TECHNOLOGIES CO.,LTD
54443B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

5C-70-75 (hex) HUAWEI TECHNOLOGIES CO.,LTD
5C7075 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C0-E9-11 (hex) RealNetworks
C0E911 (base 16) RealNetworks
1501 1st Ave S., #600

Seattle WA 98134
US

8C-3B-4A (hex) Universal Global Scientific Industrial Co., Ltd.
8C3B4A (base 16) Universal Global Scientific Industrial Co., Ltd.
141, Lane 351, Taiping Road, Sec.1,Tsao Tuen
Nan-Tou Taiwan 54261
TW

50-D3-3B (hex) cloudnineinfo
50D33B (base 16) cloudnineinfo
xiaoshan Wujin load #19
hangzhou zhejiang 311258
CN

84-C8-A0 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
84C8A0 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.2,Jin-da
Road,Huinan Industrial Park
Hui Zhou Guangdong 516025
CN

58-C4-1E (hex) IEEE Registration Authority
58C41E (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

08-F0-1E (hex) eero inc.
08F01E (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

18-A5-FF (hex) Arcadyan Corporation
18A5FF (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

8C-1A-F3 (hex) Shenzhen Gooxi Information Security CO.,Ltd.
8C1AF3 (base 16) Shenzhen Gooxi Information Security CO.,Ltd.
A District,5th Floor,Block A3,Digital Technology Park,Gaoxin South 7th Road,District of High-tech Industrial Park,Nanshan District , Shenzhen, Guangdong Province
Shenzhen Guangdong 518100
CN

F4-B6-C6 (hex) Indra Heera Technology LLP

F4B6C6 (base 16) Indra Heera Technology LLP
Narayan Colony, Old Police Line, Arrah
Bhojpur Bihar 802301
IN

A0-02-A5
(hex) Intel Corporate
A002A5 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

8C-D5-4A (hex) TAIYO YUDEN CO.,LTD
8CD54A (base 16) TAIYO YUDEN CO.,LTD
8-1, Sakae-cho
Takasaki-shi Gunma 370-8522
JP

A8-8B-28 (hex) SHENZHEN DIYANG SMART TECHNOLOGY CO.,LTD.
A88B28 (base 16) SHENZHEN DIYANG SMART TECHNOLOGY CO.,LTD.
Room 202, Building 4, Research & Creation Valley High-tech Incubation Park, Gongming Street, Guangming District, Shenzhen(www.diyangsmart.com)
Shenzhen Guangdong 518107
CN

C8-70-23 (hex) Altice Labs S.A.
C87023 (base 16) Altice Labs S.A.
NIF 504705610, Rua Eng. José Ferreira Pinto Basto
Aveiro 3810-106
PT

70-98-83 (hex) SHENZHEN KAYAN ELECTRONICS., LTD.
709883 (base 16) SHENZHEN KAYAN ELECTRONICS., LTD.
ROOM 1801B1,HENGFANG TECHNOLOGY BUILDING, NO.4008,XINHU ROAD,YONGFENG COMMUNITY, BAO'AN DISTRICT,SHENZHEN
Shenzhen 518126
CN

74-5D-22
(hex) LCFC(HeFei) Electronics Technology co., ltd
745D22 (base 16) LCFC(HeFei) Electronics Technology co., ltd
No.3188-1,YunGu Road(Comprehensive Bonded Zone),Hefei Economic and Technological Development Area
HEFEI ANHUI 230601
CN

E8-80-88 (hex) LCFC(HeFei) Electronics Technology co., ltd
E88088 (base 16) LCFC(HeFei) Electronics Technology co., ltd
No.3188-1,YunGu Road(Comprehensive Bonded Zone),Hefei Economic and Technological Development Area

HEFEI ANHUI 230601
CN

C4-79-9F (hex) Haiguang Smart Device Co.,Ltd.
C4799F (base 16) Haiguang Smart Device Co.,Ltd.
Room 202,2nd.Floor,3rd.Building,Kuiqiao Road, No.2,Tangxia Town,Dongguan
Dongguan Guangdong 523000
CN

F4-3A-7B (hex) zte corporation
F43A7B (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

68-9E-29 (hex) zte corporation
689E29 (base 16) zte corporation
12/F.,zte
R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

6C-03-B5 (hex) Cisco Systems, Inc
6C03B5 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A8-91-62 (hex) Sophos Ltd
A89162 (base 16) Sophos Ltd
The Pentagon
Abingdon Oxfordshire OX14 3YP
GB

B8-6C-E0 (hex) Hewlett Packard Enterprise
B86CE0 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville 95747
US

E4-40-97 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
E44097 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

DC-B4-CA (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
DCB4CA (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD

NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

94-3B-B1 (hex) Kaon Group Co., Ltd.
943BB1 (base 16) Kaon Group Co., Ltd.
KAONMEDIA
Building 513-4
Sungnam-City Kyonggi-Do 463-839, KOREA
KR

44-F0-34 (hex) Kaon Group Co., Ltd.
44F034 (base 16) Kaon Group Co., Ltd.
884-3, Seongnam-daero, Bundang-gu
Seongnam-si Gyeonggi-do 13517
KR

50-16-F4 (hex) Motorola Mobility LLC, a Lenovo Company
5016F4 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

3C-08-CD (hex) Juniper Networks
3C08CD (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

88-8F-10 (hex) Shenzhen Max Infinite Technology Co.,Ltd.
888F10 (base 16) Shenzhen Max Infinite Technology Co.,Ltd.
Room 908 Building 2, Aviation&Space Building, No.53 Gaoxin South 9th Road, Gaoxin Community, Yuehai Street,Nanshan District, Shenzhen
Shenzhen Guangdong 518000
CN

68-50-5D (hex) Halo Technologies
68505D (base 16) Halo Technologies
15775 Gateway Cir
Tustin CA 92780
US

7C-6A-8A
(hex) SINOBONDER Technology Co., Ltd.
7C6A8A (base 16) SINOBONDER Technology Co., Ltd.
Building 1, No. 245, Guanchang Road, Dongcheng District
Dongguan Guangdong 523000
CN

90-EC-E3 (hex) Nokia
90ECE3 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

88-7B-2C (hex) zte corporation
887B2C (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

60-DB-EF (hex) Unify Software and Solutions GmbH & Co. KG
60DBEF (base 16) Unify Software and Solutions GmbH & Co. KG
Otto-Hahn-Ring 6
Munich 81739
DE

40-84-32 (hex) Microchip Technology Inc.
408432 (base 16) Microchip Technology Inc.
2355 W. Chandler Blvd.
Chandler AZ 85224
US

88-B5-FF (hex) Shenzhen iComm Semiconductor CO.,LTD
88B5FF (base 16) Shenzhen iComm Semiconductor CO.,LTD
Room 601,Block B ,Digital Building,Garden City
Shenzhen No.1079 Nanhai
Road,Nanshan District 518067
CN

84-28-59 (hex) Amazon Technologies Inc.
842859 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

AC-C0-48 (hex) OnePlus Technology (Shenzhen) Co., Ltd
ACC048 (base 16) OnePlus Technology (Shenzhen) Co., Ltd
18C02, 18C03, 18C04 ,18C05,TAIRAN BUILDING,
Shenzhen Guangdong 518000
CN

90-56-07 (hex) Sichuan AI-Link Technology Co., Ltd.
905607 (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou,Industrial Park
Anzhou,Industrial Park Sichuan 621000

CN

48-31-33 (hex) Robert Bosch Elektronika Kft.
483133 (base 16) Robert Bosch Elektronika Kft.
Robert Bosch út 1.
Hatvan 3000
HU

B8-AB-61 (hex) Cisco Meraki
B8AB61 (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco 94158
US

44-D5-C1 (hex) EM Microelectronic
44D5C1 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

40-B7-FC
(hex) Phyplus Microelectronics Limited
40B7FC (base 16) Phyplus Microelectronics Limited
304 Building 1 No.608 Sheng Xia Road
Shanghai 200000
CN

68-2C-4F (hex) leerang corporation
682C4F (base 16) leerang corporation
#101,69, Jongam-ro 28-gil, Seongbuk-gu
seoul 02797
KR

FC-59-C0 (hex) Arista Networks
FC59C0 (base 16) Arista Networks
5453 Great America Parkway
Santa Clara CA 95054
US

64-1B-2F (hex) Samsung Electronics Co.,Ltd
641B2F (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

68-DD-B7 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
68DDB7 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan

Shenzhen Guangdong 518057
CN

14-D8-64 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
14D864 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors
1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

B8-51-A9 (hex) Nokia
B851A9 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

D0-77-CE (hex) Edgecore Networks Corporation
D077CE (base 16) Edgecore Networks Corporation
1 Creation RD 3.
Hsinchu 30077
TW

EC-AF-F9 (hex) Hailo Technologies Ltd.
ECAFF9 (base 16) Hailo Technologies Ltd.
94 Yigal Alon
Tel Aviv 6789139
IL

60-15-2B (hex) Palo Alto Networks
60152B (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

28-EC-22 (hex) eero inc.
28EC22 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

40-D4-F6 (hex) Honor Device Co., Ltd.
40D4F6 (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District
Shenzhen Guangdong 518040
CN

7C-31-80

(hex) SMK corporation
7C3180 (base 16) SMK corporation
6-5-5 Togoshi
Shinagawa 1428511
JP

78-2D-AD (hex) HUAWEI TECHNOLOGIES CO.,LTD
782DAD (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D0-61-58 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D06158 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

24-4B-F1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
244BF1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

44-D7-7E (hex) Robert Bosch GmbH
44D77E (base 16) Robert Bosch GmbH
Tuebinger Str. 123
Reutlingen 72762
DE

00-16-F6 (hex) Nevion
0016F6 (base 16) Nevion
Lysaker Torg 5
Lysaker NO-1366
NO

9C-73-B1 (hex) Samsung Electronics Co.,Ltd
9C73B1 (base 16) Samsung
Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

38-8A-06 (hex) Samsung Electronics Co.,Ltd
388A06 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B0-D8-88 (hex) Panasonic Automotive Systems Co.,Ltd
B0D888 (base 16) Panasonic Automotive Systems Co.,Ltd
5652
Matsumoto City Nagano 399-8730
JP

84-3E-1D (hex) Hui Zhou Gaoshengda Technology Co.,LTD
843E1D (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.2,Jin-da Road,Huinan Industrial Park
Hui Zhou Guangdong 516025
CN

40-ED-00 (hex) TP-Link Corporation Limited
40ED00 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

90-88-55 (hex) Cisco Systems, Inc
908855 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

68-71-61 (hex) Cisco Systems, Inc
687161 (base
16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

88-3F-37 (hex) UHTEK CO., LTD.
883F37 (base 16) UHTEK CO., LTD.
403DONG 503HO, 655 PYEONGCHEON-RO
BUCHEONSI KYEONGGIDO 14502
KR

48-93-DC (hex) UNIWAY INFOCOM PVT LTD
4893DC (base 16) UNIWAY INFOCOM PVT LTD
BLOCK C 9 4 WAZIRPUR INDUSTRIAL AREA
NEW DELHI DELHI 110052
IN

5C-E6-88 (hex) VECOS Europe B.V.
5CE688 (base 16) VECOS Europe B.V.
ESP 237
Eindhoven Noord-Brabant 5633 AD

NL

D4-BA-FA (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
D4BAFA (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

00-80-B8 (hex) DMG MORI Digital Co., LTD
0080B8 (base 16) DMG MORI Digital Co., LTD
1-1-14 Techno park,
Shimonopporo, Atsubetsuku, Sapporo Hokkaido 004-0015
JP

28-73-F6 (hex) Amazon Technologies Inc.
2873F6 (base 16) Amazon Technologies
Inc.
P.O Box 8102
Reno NV 89507
US

C4-EB-FF (hex) zte corporation
C4EBFF (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

5C-28-86 (hex) Inventec(Chongqing) Corporation
5C2886 (base 16) Inventec(Chongqing) Corporation
No.66 West District 2nd Rd, Shapingba District
Chongqing Chongqing 401331
CN

20-15-82 (hex) Apple, Inc.
201582 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E0-CB-1D (hex) Amazon Technologies Inc.
E0CB1D (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

FC-84-A7 (hex) Murata Manufacturing Co., Ltd.
FC84A7 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari

Nagaokakyo-shi Kyoto 617-8555
JP

40-92-1A (hex) Apple, Inc.
40921A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

10-E2-C9 (hex) Apple, Inc.
10E2C9
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

4C-EC-0F (hex) Cisco Systems, Inc
4CEC0F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

3C-CB-4D (hex) Avikus Co., Ltd
3CCB4D (base 16) Avikus Co., Ltd
11F, 70, Nonhyeon-ro 85-gil
Gangnam-gu Seoul 06234
KR

24-A4-2C (hex) NETIO products a.s.
24A42C (base 16) NETIO products a.s.
U Pily 3
Prague 143 00
CZ

70-2F-86 (hex) Marquardt GmbH
702F86 (base 16) Marquardt GmbH
Schloss-Strasse 16
Rietheim-Weilheim 78604
DE

A8-88-1F (hex) SERVERCOM (INDIA) PRIVATE LIMITED
A8881F (base 16) SERVERCOM (INDIA) PRIVATE LIMITED
E-43/1 OKHLA INDUSTRIAL AREA PHASE-II NEW DELHI SOUTH DELHI
NEW DELHI NA
IN

60-1B-52 (hex) Vodafone Italia S.p.A.
601B52 (base 16) Vodafone Italia S.p.A.

Via Lorenteggio nr. 240
Milan Italy 20147
IT

C0-8F-20 (hex) Shenzhen Skyworth Digital
Technology CO., Ltd
C08F20 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

08-FF-24 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
08FF24 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

90-B6-7A (hex) Shenzhen Skyworth Digital Technology CO., Ltd
90B67A (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

24-9A-C8 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
249AC8 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

28-C0-1B (hex) Shenzhen Skyworth Digital Technology CO., Ltd
28C01B (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong
518057
CN

00-50-79 (hex) Private
005079 (base 16) Private

E0-28-B1 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
E028B1 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

30-31-80 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
303180 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,

Shenzhen Guangdong 518057
CN

38-A8-51 (hex) Quickset Defense Technologies, LLC
38A851 (base 16) Quickset Defense Technologies, LLC
3650 Woodhead Drive
Northbrook IL 60062
US

04-36-B8 (hex) I&C Technology
0436B8 (base 16) I&C Technology
I&C Building, 24, Pangyo-ro 255beon-gil, Bundang-gu
Seongnam-si Gyeonggi-do 13486
KR

D0-43-1E (hex) Dell Inc.
D0431E (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

20-47-47 (hex) Dell Inc.
204747 (base 16) Dell Inc.
One
Dell Way
Round Rock TX 78682
US

F0-A0-B1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F0A0B1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

40-4F-42 (hex) HUAWEI TECHNOLOGIES CO.,LTD
404F42 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

30-86-F1 (hex) Fiberhome Telecommunication Technologies Co.,LTD
3086F1 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

84-7B-EB (hex) Dell Inc.
847BEB (base 16) Dell Inc.

One Dell Way
Round Rock TX 78682
US

98-90-96 (hex) Dell Inc.
989096 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

80-18-44 (hex) Dell Inc.
801844 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

98-40-BB (hex) Dell Inc.
9840BB
(base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

D4-81-D7 (hex) Dell Inc.
D481D7 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

00-B0-D0 (hex) Dell Inc.
00B0D0 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

00-19-B9 (hex) Dell Inc.
0019B9 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

00-1A-A0 (hex) Dell Inc.
001AA0 (base 16) Dell Inc.
One Dell Way, MS RR5-45
Round Rock 78682
US

00-25-64 (hex) Dell Inc.

002564 (base 16) Dell Inc.
One Dell Way, MS RR5-45
Round Rock 78682
US

A4-BA-DB (hex) Dell Inc.
A4BADB (base 16) Dell Inc.
One Dell Way, MS RR5-45
Round Rock 78682
US

00-1C-23 (hex) Dell Inc.
001C23 (base 16) Dell Inc.
One Dell Way, MS RR5-45
Round Rock 78682
US

11-00-AA (hex) Private
1100AA (base 16) Private

9C-93-E4 (hex) Private
9C93E4 (base 16) Private

78-2B-CB
(hex) Dell Inc.
782BCB (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

14-FE-B5 (hex) Dell Inc.
14FEB5 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

18-03-73 (hex) Dell Inc.
180373 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

74-86-7A (hex) Dell Inc.
74867A (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

A4-1F-72 (hex) Dell Inc.
A41F72 (base 16) Dell Inc.
One Dell way
Round Rock 78682
US

00-C0-4F (hex) Dell Inc.
00C04F (base 16) Dell Inc.
1807 WEST BRAKER LANE-BLDG.
AUSTIN TX 78758-3610
US

00-0B-DB (hex) Dell Inc.
000BDB (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

00-12-3F (hex) Dell Inc.
00123F (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

00-CB-00 (hex) Private
00CB00 (base 16) Private

44-20-63 (hex) Continental Automotive
Technologies GmbH
442063 (base 16) Continental Automotive Technologies GmbH
Siemensstr. 12
Regensburg 93055
DE

58-10-31 (hex) Hon Hai Precision IND.CO.,LTD
581031 (base 16) Hon Hai Precision IND.CO.,LTD
No. 66 Chung Shan Road TU-Cheng Industrial district TAIPEI TAIWAN
TAIPEI TAIWAN 33859
CN

54-BF-64 (hex) Dell Inc.
54BF64 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

CC-C5-E5 (hex) Dell Inc.
CCC5E5 (base 16) Dell Inc.

One Dell Way
Round Rock TX 78682
US

4C-D9-8F (hex) Dell Inc.
4CD98F (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

DC-F4-01 (hex) Dell Inc.
DCF401 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

6C-2B-59 (hex) Dell Inc.
6C2B59 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

C8-F7-50 (hex) Dell Inc.
C8F750 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

48-5A-0D
(hex) Juniper Networks
485A0D (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

D0-8E-79 (hex) Dell Inc.
D08E79 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

B4-45-06 (hex) Dell Inc.
B44506 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

04-BF-1B (hex) Dell Inc.

04BF1B (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

F8-0D-A9 (hex) Zyxel Communications Corporation
F80DA9 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

98-E7-43 (hex) Dell Inc.
98E743 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

18-5A-58 (hex) Dell Inc.
185A58 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

E0-D8-48 (hex) Dell Inc.
E0D848 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

AC-91-9B (hex) Wistron
Neweb Corporation
AC919B (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

E0-3C-1C (hex) IEEE Registration Authority
E03C1C (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

00-09-93 (hex) Visteon Corporation
000993 (base 16) Visteon Corporation
16630 Southfield Road
Allen Park Michigan 48101
US

EC-41-CA (hex) Shenzhen TecAnswer Technology co.,ltd
EC41CA (base 16) Shenzhen TecAnswer Technology co.,ltd
1004 yuemeite Building,No.1 gaoxin South 7th Road,Gaoxin District,Yuehai Street,Nanshan District,Shenzhen
Shenzhen Guangdong 518063
CN

14-84-77 (hex) New H3C Technologies Co., Ltd
148477 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

14-96-2D (hex) New H3C Technologies Co., Ltd
14962D (base 16) New H3C Technologies Co., Ltd
466
Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

C4-A6-4E (hex) Quectel Wireless Solutions Co.,Ltd.
C4A64E (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

D8-58-C6 (hex) Katch Asset Tracking Pty Limited
D858C6 (base 16) Katch Asset Tracking Pty Limited
98 Riley St
Darlinghurst NSW 2010
AU

2C-C6-A0 (hex) Lumacron Technology Ltd.
2CC6A0 (base 16) Lumacron Technology Ltd.
4 Pitreavie Court, Pitreavie Business Park
Dunfermline Fife KY11 8UU
GB

70-66-B9 (hex) Huawei Device Co., Ltd.
7066B9 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C4-A1-AE (hex) Huawei Device Co., Ltd.
C4A1AE (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

48-6F-33 (hex) KYUNGWOO.SYSTEM,
INC.
486F33 (base 16) KYUNGWOO.SYSTEM, INC.
68, Digital-ro 9-gil, Geumcheon-gu, Seoul, Republic of Korea
Seoul 08512
KR

08-61-95 (hex) Rockwell Automation
086195 (base 16) Rockwell Automation
1 Allen-Bradley Dr.
Mayfield Heights OH 44124-6118
US

24-BB-C9 (hex) Shenzhen SuperElectron Technology Co.,Ltd.
24BBC9 (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

00-00-BC (hex) Rockwell Automation
0000BC (base 16) Rockwell Automation
1 Allen-Bradley Dr.
Mayfield Heights OH 44124-6118
US

FC-D7-49 (hex) Amazon Technologies Inc.
FCD749 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

2C-96-82 (hex) MitraStar Technology Corp.
2C9682 (base 16) MitraStar Technology Corp.
No. 6, Innovation Road II,
Hsinchu 300
TW

A8-71-16
(hex) Earda Technologies co Ltd
A87116 (base 16) Earda Technologies co Ltd
Block A,Lianfeng Creative Park, #2 Jisheng Rd., Nansha District
Guangzhou Guangdong 511455
CN

E8-EB-DD (hex) Guangzhou Qingying Acoustics Technology Co., Ltd
E8EBDD (base 16) Guangzhou Qingying Acoustics Technology Co., Ltd
Room 905, 863 Industrialization Promotion Center, Guangzhou Private Science Park, Taihe Town, Baiyun District

Guangzhou Guangdong 510000
CN

54-8C-81 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
548C81 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

24-48-45 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
244845 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

00-50-CA (hex) DZS Inc.
0050CA (base 16) DZS Inc.
680 CENTRAL AVENUE - STE. #301
DOVER NH 03820
US

74-EE-8D
(hex) Apollo Intelligent Connectivity (Beijing) Technology Co., Ltd.
74EE8D (base 16) Apollo Intelligent Connectivity (Beijing) Technology Co., Ltd.
Baidu Technology Park Building No.2 No.10 Xibeiwang East Road Haidian District
BeiJing BeiJing 100193
CN

00-03-51 (hex) Diebold Nixdorf
000351 (base 16) Diebold Nixdorf
5995 Mayfair Road
North Canton OH 44720
US

F0-9F-C2 (hex) Ubiquiti Inc
F09FC2 (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

80-2A-A8 (hex) Ubiquiti Inc
802AA8 (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

EC-C8-9C (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
ECC89C (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.

No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

8C-E7-48 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
8CE748 (base 16) Hangzhou
Hikvision Digital Technology Co.,Ltd.
No.469,Jianghui Road
Hangzhou Zhejiang 310052
CN

24-28-FD (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
2428FD (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

AC-B9-2F (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
ACB92F (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

D4-E8-53 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
D4E853 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

24-0F-9B (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
240F9B (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

C0-6D-ED (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
C06DED (base 16) Hangzhou Hikvision Digital
Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

24-32-AE (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
2432AE (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

E0-BA-AD (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
E0BAAD (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

E0-CA-3C (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
E0CA3C (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

DC-07-F8 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
DC07F8 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

64-DB-8B (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
64DB8B (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555
Qianmo Road
Hangzhou Zhejiang 310052
CN

94-E1-AC (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
94E1AC (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

58-03-FB (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
5803FB (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

44-47-CC (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
4447CC (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

98-DF-82 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
98DF82 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

78-8A-20 (hex) Ubiquiti Inc
788A20 (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

74-83-C2
(hex) Ubiquiti Inc
7483C2 (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

E0-63-DA (hex) Ubiquiti Inc
E063DA (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

24-5A-4C (hex) Ubiquiti Inc
245A4C (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

60-22-32 (hex) Ubiquiti Inc
602232 (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

E4-38-83 (hex) Ubiquiti Inc
E43883 (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

C0-56-E3 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
C056E3 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.469,Jianghui Road
Hangzhou Zhejiang 310052
CN

BC-AD-28 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
BCAD28 (base 16) Hangzhou
Hikvision Digital Technology Co.,Ltd.
No.469,Jianghui Road

Hangzhou Zhejiang 310052
CN

88-B6-BD (hex) Flaircomm Microelectronics, Inc.
88B6BD (base 16) Flaircomm Microelectronics, Inc.
7F, Guomai Building, Guomai Science and Technology Park,116 Jiangbin East Avenue, Mawei District
Fuzhou Fujian 350015
CN

BC-49-B2 (hex) SHENZHEN ALONG COMMUNICATION TECH CO., LTD
BC49B2 (base 16) SHENZHEN ALONG COMMUNICATION TECH CO., LTD
Room1301,ZHENYEInternationalBusinessCenter,QIANHAIRoad,NANSHAN District,SHENZHEN,PRCTEL
SHENZHEN 518000
CN

94-97-AE (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
9497AE (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

0C-BD-75 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
0CBD75 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

AC-90-73
(hex) HUAWEI TECHNOLOGIES CO.,LTD
AC9073 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

FC-1D-3A (hex) HUAWEI TECHNOLOGIES CO.,LTD
FC1D3A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E4-BE-FB (hex) HUAWEI TECHNOLOGIES CO.,LTD
E4BEFB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

58-F8-D7 (hex) HUAWEI TECHNOLOGIES CO.,LTD
58F8D7 (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

40-A6-77 (hex) Juniper Networks
40A677 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

D8-18-D3 (hex) Juniper Networks
D818D3 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale
CA 94089
US

F0-4B-3A (hex) Juniper Networks
F04B3A (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

C0-42-D0 (hex) Juniper Networks
C042D0 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

00-1B-C0 (hex) Juniper Networks
001BC0 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

44-EC-CE (hex) Juniper Networks
44ECCE (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

CC-E1-94 (hex) Juniper Networks
CCE194 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

78-8C-B5 (hex) TP-Link Corporation Limited

788CB5 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

28-8A-1C (hex) Juniper Networks
288A1C (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale
CA 94089
US

84-B5-9C (hex) Juniper Networks
84B59C (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

5C-45-27 (hex) Juniper Networks
5C4527 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

EC-3E-F7 (hex) Juniper Networks
EC3EF7 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

20-4E-71 (hex) Juniper Networks
204E71 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

D4-04-FF (hex) Juniper Networks
D404FF (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

00-21-59 (hex) Juniper Networks
002159 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

00-23-9C (hex) Juniper Networks
00239C (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

50-C5-8D (hex) Juniper Networks
50C58D (base 16) Juniper
Networks
1133 Innovation Way
Sunnyvale CA 94089
US

28-C0-DA (hex) Juniper Networks
28C0DA (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

84-C1-C1 (hex) Juniper Networks
84C1C1 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

7C-E2-CA (hex) Juniper Networks
7CE2CA (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

48-81-4E (hex) E&M SOLUTION CO,.Ltd
48814E (base 16) E&M SOLUTION CO,.Ltd
#813-ho, 555, Byeolmang-ro
Ansan-si Danwon-gu 15434
KR

7C-4D-8F (hex) HP Inc.
7C4D8F (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

9C-CB-F7 (hex) CLOUD STAR TECHNOLOGY CO., LTD.
9CCBF7 (base 16) CLOUD STAR TECHNOLOGY CO., LTD.
13F.-1, No. 167, Wenqing Rd Guishan Dist
Taoyuan City Taoyuan 333613
TW

74-D5-58 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
74D558 (base 16) GUANGDONG
OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

B8-EA-98 (hex) Xiaomi Communications Co Ltd
B8EA98 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

10-C4-CA (hex) HUMAX Co., Ltd.
10C4CA (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

F4-64-12 (hex) Sony Interactive Entertainment Inc.
F46412 (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

3C-F9-F0 (hex) zte corporation
3CF9F0 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

68-77-DA (hex) zte corporation
6877DA (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

88-58-BE
(hex) kuosheng.com
8858BE (base 16) kuosheng.com
Room 103, Building 15 of Headquarters Center, No. 555, North Panyu Ave
Guangzhou Guangdong 511493
CN

E4-5D-37 (hex) Juniper Networks
E45D37 (base 16) Juniper Networks
1133 Innovation Way

Sunnyvale CA 94089
US

94-F7-AD (hex) Juniper Networks
94F7AD (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

78-4F-9B (hex) Juniper Networks
784F9B (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

88-D9-8F (hex) Juniper Networks
88D98F (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

78-50-7C (hex) Juniper Networks
78507C (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

F0-7C-C7 (hex) Juniper Networks
F07CC7 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

AC-80-0A (hex) Sony Corporation
AC800A
(base 16) Sony Corporation
Sony City Osaki 2-10-1
Shinagawa-ku Tokyo 141-8610
JP

58-C9-35 (hex) Chiun Mai Communication System, Inc
58C935 (base 16) Chiun Mai Communication System, Inc
No.4, Minsheng St., Tucheng District
New Taipei City 23678
TW

E0-30-F9 (hex) Juniper Networks
E030F9 (base 16) Juniper Networks

1133 Innovation Way
Sunnyvale CA 94089
US

4C-73-4F (hex) Juniper Networks
4C734F (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

D4-5A-3F (hex) Juniper Networks
D45A3F (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

04-69-8F (hex) Juniper Networks
04698F (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

00-05-85 (hex) Juniper Networks
000585 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

88-90-09 (hex) Juniper Networks
889009 (base
16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

00-CC-34 (hex) Juniper Networks
00CC34 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

1C-3B-62 (hex) HMD Global Oy
1C3B62 (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

A4-A5-28 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD

A4A528 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

E8-78-EE (hex) New H3C Technologies Co., Ltd
E878EE (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

EC-A7-AD (hex) Barrot Technology Co.,Ltd.
ECA7AD (base 16) Barrot Technology Co.,Ltd.
A1009,Block A,Jia Hua Building,No.9 Shangdi 3rd Street,Haidian District,Beijing
beijing beijing 100000
CN

00-30-2B (hex) Inalp Solutions AG
00302B
(base 16) Inalp Solutions AG
Badenerstrasse 13
Brugg 5200
CH

74-73-B4 (hex) Apple, Inc.
7473B4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A4-FC-14 (hex) Apple, Inc.
A4FC14 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A8-1A-F1 (hex) Apple, Inc.
A81AF1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

70-58-46 (hex) Trig Avionics Limited
705846 (base 16) Trig Avionics Limited
Heriot Watt Research Park
Edinburgh EH14 4AP
GB

08-91-A3 (hex) Amazon Technologies Inc.
0891A3 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

0C-D9-23 (hex) GOCLOUD Networks(GAOKE Networks)
0CD923 (base 16) GOCLOUD Networks(GAOKE Networks)
Room 5-301-A02, No. 3000, Longdong Road
Pudong Shanghai 201203
CN

44-DB-D2 (hex) YEALINK(XIAMEN) NETWORK TECHNOLOGY CO.,LTD.
44DBD2 (base 16) YEALINK(XIAMEN)
NETWORK TECHNOLOGY CO.,LTD.
309, 3th Floor, No.16, Yun Ding North Road, Huli District
xiamen Fujian 361015
CN

F0-74-8D (hex) Ruijie Networks Co.,LTD
F0748D (base 16) Ruijie Networks Co.,LTD
No. 2, 7th floor, xingwangruijie, haixi hi-tech industrial park, high-tech zone, fuzhou city
Fuzhou Fujian 350002
CN

CC-08-FA (hex) Apple, Inc.
CC08FA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

90-9B-6F (hex) Apple, Inc.
909B6F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E0-DC-A0 (hex) Siemens Industrial Automation Products Ltd., Chengdu
E0DCA0 (base 16) Siemens Industrial Automation Products Ltd., Chengdu
Tianyuan Road 99
Cheng Du Si Chuan 611731
CN

9C-DB-AF (hex) HUAWEI TECHNOLOGIES CO.,LTD
9CDBAF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

0C-2E-57 (hex) HUAWEI
TECHNOLOGIES CO.,LTD
0C2E57 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E8-D7-75 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E8D775 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

84-39-8F (hex) Fortinet, Inc.
84398F (base 16) Fortinet, Inc.
899 Kifer Road
Sunnyvale 94086
US

B4-ED-D5 (hex) Quectel Wireless Solutions Co.,Ltd.
B4EDD5 (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

5C-64-F1 (hex) Cisco Systems, Inc
5C64F1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

90-B4-DD (hex) Private
90B4DD (base 16) Private

B8-38-EF (hex) ADVA Optical Networking Ltd.
B838EF (base 16) ADVA Optical Networking Ltd.
ADVAntage House
York
YO30 4RY
GB

64-EC-65 (hex) vivo Mobile Communication Co., Ltd.
64EC65 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

F4-24-62 (hex) Selcom Electronics (Shanghai) Co., Ltd
F42462 (base 16) Selcom Electronics (Shanghai) Co., Ltd
A7/A24 No.5399, Waiqingsong Road, Qing Pu
Shanghai Shanghai 201707
CN

F4-A1-7F (hex) Marquardt Electronics Technology (Shanghai) Co.Ltd
F4A17F (base 16) Marquardt Electronics Technology (Shanghai) Co.Ltd
No. 650 Qingda Road, Heqing Industrial Zone, Shanghai
Shanghai 201201
CN

48-BC-E1 (hex) Samsung Electronics Co.,Ltd
48BCE1 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F8-3C-80 (hex) MITSUMI ELECTRIC CO.,LTD.
F83C80 (base 16) MITSUMI ELECTRIC CO.,LTD.
2-11-2, Tsurumaki
Tama-shi Tokyo 206-8567
JP

D8-3A-DD (hex) Raspberry Pi Trading Ltd
D83ADD
(base 16) Raspberry Pi Trading Ltd
Maurice Wilkes Building, Cowley Road
Cambridge CB4 0DS
GB

70-F8-AE (hex) Microsoft Corporation
70F8AE (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

00-0F-2A (hex) Cableware Electronics
000F2A (base 16) Cableware Electronics
1702 Western Ave.
Las Vegas Nevada 89102
US

2C-D1-C6 (hex) Murata Manufacturing Co., Ltd.
2CD1C6 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

08-42-18 (hex) Asyril SA
084218 (base 16) Asyril SA
Z.I. du Vivier 22
Villaz-St-Pierre Fribourg 1690
CH

D8-5B-22 (hex) Shenzhen Hohunet Technology Co., Ltd
D85B22 (base 16) Shenzhen Hohunet Technology Co., Ltd
8th floor, block a, Huahan technology building, No.16, Langshan Road, North District, Science Park, Nanshan District, Shenzhen
Shenzhen Gongdong 518000
CN

8C-79-09 (hex) Aruba,
a Hewlett Packard Enterprise Company
8C7909 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

D0-D0-03 (hex) Samsung Electronics Co.,Ltd
D0D003 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

5C-76-D5 (hex) Nokia
5C76D5 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

8C-7A-00 (hex) Nokia
8C7A00 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

B8-5C-EE (hex) Baidu Online Network Technology (Beijing) Co., Ltd
B85CEE (base 16) Baidu Online Network Technology (Beijing) Co., Ltd
Baidu Campus, No.10 Shangdi 10th Street, Haidian District
Beijing 100085
CN

28-B5-E8 (hex) Texas Instruments
28B5E8 (base 16) Texas Instruments
12500 TI Blvd

Dallas TX 75243
US

08-C3-B3 (hex) TCL King Electrical Appliances(Huizhou)Co.,Ltd
08C3B3 (base 16) TCL
King Electrical Appliances(Huizhou)Co.,Ltd
B Area, 10th floor, TCL multimedia Building, TCL International E City, #1001 Zhonshanyuan road,Shenzhen
guangdong China 518058
CN

20-45-69 (hex) ITEL MOBILE LIMITED
204569 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

D4-63-52 (hex) Vutility Inc.
D46352 (base 16) Vutility Inc.
126 W Sego Lily Ste 150
Sandy UT 84070
US

50-5A-65 (hex) AzureWave Technology Inc.
505A65 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd., Xindian Dist.
New Taipei City 23144
TW

C4-A5-59 (hex) IEEE Registration Authority
C4A559 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

BC-64-D9 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
BC64D9 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN
ROAD,
DONG GUAN GUANG DONG 523860
CN

2C-AB-33 (hex) Texas Instruments
2CAB33 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

DC-AC-6F (hex) Everytale Inc

DCAC6F (base 16) Everytale Inc
2093 Philadelphia Pike #2211
Claymont DE 19703
US

F4-15-32 (hex) PETAiO (NanJing), Inc.
F41532 (base 16) PETAiO (NanJing), Inc.
17 / F, block A, Weien building, No. 73 Huachuang Road, Yan Chuang Park, Jiang Bei New Area
Nanjing Jiangsu 211800
CN

30-1F-48 (hex) zte corporation
301F48 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

7C-C7-4A (hex) Fiberhome Telecommunication Technologies Co.,LTD
7CC74A (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

38-FC-34 (hex) Huawei Device Co., Ltd.
38FC34 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng
Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

3C-F6-92 (hex) Huawei Device Co., Ltd.
3CF692 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

94-0E-E7 (hex) HUAWEI TECHNOLOGIES CO.,LTD
940EE7 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-B2-71 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A8B271 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

64-05-E4 (hex) ALPSALPINE CO,.LTD
6405E4 (base 16) ALPSALPINE CO,.LTD
nishida 6-1
kakuda-City Miyagi-Pref 981-1595
JP

6C-0C-9A (hex) Amazon Technologies Inc.
6C0C9A (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

CC-00-F1 (hex) Sagemcom Broadband SAS
CC00F1 (base 16) Sagemcom Broadband SAS
250, route de
l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

30-82-16 (hex) Apple, Inc.
308216 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C4-A0-52 (hex) Motorola Mobility LLC, a Lenovo Company
C4A052 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

84-90-0A (hex) Arcadyan Corporation
84900A (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

78-76-89 (hex) eero inc.
787689 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

48-77-06 (hex) NXP Semiconductor (Tianjin) LTD.
487706 (base 16) NXP Semiconductor (Tianjin) LTD.
No.15 Xinghua Avenue, Xiqing Economic Development Area
Tianjin 300385
CN

0C-CC-47 (hex) IEEE Registration Authority
0CCC47 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

5C-3E-06 (hex) Cisco
Systems, Inc
5C3E06 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

C8-28-E5 (hex) Cisco Systems, Inc
C828E5 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

8C-D0-B2 (hex) Beijing Xiaomi Mobile Software Co., Ltd
8CD0B2 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

B0-FC-88 (hex) Sagemcom Broadband SAS
B0FC88 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

34-87-3D (hex) Quectel Wireless Solutions Co.,Ltd.
34873D (base 16) Quectel Wireless Solutions Co.,Ltd.
RM501,Building 13,No.99 TianZhou Road,Xuhui District,Shanghai,China
Shanghai Shanghai 200233
CN

C4-41-37 (hex) Quectel Wireless Solutions Co.,Ltd.
C44137 (base 16) Quectel Wireless Solutions Co.,Ltd.
7th
Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

D8-21-DA (hex) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
D821DA (base 16) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
NO.8 Tangzhuang Road,Suzhou Industrial Park,Su ZhouCity,JiangSu Province,China

Suzhou 215021
CN

08-F1-B3 (hex) Cisco Meraki
08F1B3 (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco 94158
US

BC-E8-FA (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
BCE8FA (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

10-D6-80 (hex) Tendyron Corporation
10D680 (base 16) Tendyron Corporation
Tendyron Building,Zhongguancun NO.1 Park,Beiqing Road,Haidian District,Beijing,China
Beijing 100000
CN

78-49-46 (hex) Cambridge Mobile Telematics, Inc.
784946 (base 16) Cambridge Mobile Telematics, Inc.
One Broadway, 14th
Floor
Cambridge MA 02142
US

F4-1A-9C (hex) Xiaomi Communications Co Ltd
F41A9C (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

00-3E-73 (hex) Mist Systems, Inc.
003E73 (base 16) Mist Systems, Inc.
1601 South De Anza Blvd, Suite 248
Cupertino CA 95014
US

0C-FC-18 (hex) HUAWEI TECHNOLOGIES CO.,LTD
0CFC18 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

80-76-C2 (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
8076C2 (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.

Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

F0-4A-3D (hex) Bosch Thermotechnik GmbH
F04A3D (base 16) Bosch Thermotechnik GmbH
Sophienstraße 30-32
Wetzlar 35576
DE

94-1F-A2 (hex) Wuhan YuXin Semiconductor Co., Ltd.
941FA2
(base 16) Wuhan YuXin Semiconductor Co., Ltd.
15F Haida Innovation Plaza, No. 66 of Chuangye Road, Donghu New Technology Development Zone
Wuhan Hubei 430074
CN

6C-D1-99 (hex) vivo Mobile Communication Co., Ltd.
6CD199 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

A0-A0-01 (hex) Aruba, a Hewlett Packard Enterprise Company
A0A001 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

B4-9D-FD (hex) Shenzhen SDMC Technology CO.,Ltd.
B49DFD (base 16) Shenzhen SDMC Technology CO.,Ltd.
Room 1022, Floor 10, Building A, Customs Building, No. 2, Xin'an 3rd Road, Dalang Community, Xin'an Street, Bao'an District
Shenzhen GUANGDONG 518101
CN

80-AB-4D (hex) Nokia Solutions and Networks GmbH & Co. KG
80AB4D (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria
D-81541
DE

4C-BA-7D (hex) Gemtek Technology Co., Ltd.
4CBA7D (base 16) Gemtek Technology Co., Ltd.
No.15-1 Zhonghua Road
Hukou Hsinchu 30352
TW

00-1A-EB (hex) Allied Telesis K.K.
001AEB (base 16) Allied Telesis K.K.
No.2 TOC Bldg.
Shinagawa-ku Tokyo 141-0031
JP

DC-06-82 (hex) Accessia Technology Ltd.
DC0682 (base 16) Accessia Technology Ltd.
Boundary House, Cricket Field Rd
Uxbridge UB8 1QG
GB

44-D2-67 (hex) Snorble
44D267 (base 16) Snorble
PO Box 40
Skillman NJ 08558
US

B0-BC-7A (hex) Harman/Becker Automotive Systems GmbH
B0BC7A (base 16) Harman/Becker Automotive Systems GmbH
Becker-Göring-Straße 16
Karlsbad Baden-Württemberg 76307
DE

F0-22-1D (hex) IEEE Registration Authority
F0221D (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

9C-54-40 (hex) ChengDu TD Tech
9C5440 (base 16) ChengDu TD Tech
C3 floor, software
park, No. 219, Tianhua Second Road
Chengdu Tianfu Avenue, high tech Zone 610041
CN

50-26-EF (hex) Murata Manufacturing Co., Ltd.
5026EF (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

74-05-7C (hex) Qorvo International Pte. Ltd.
74057C (base 16) Qorvo International Pte. Ltd.
1 Changi Business Park Avenue 1
#04-01 486058

SG

D0-40-BE (hex) NPO RPS LLC
D040BE (base 16) NPO RPS LLC
Internal territory of the urban settlement of Mosrentgen, the settlement of the Mosrentgen factory, building 1/10, office 206
Moscow 108820
RU

F4-4D-AD (hex) Cable Matters Inc.
F44DAD (base 16) Cable Matters Inc.
153 Northboro Road, Suite 5
Southborough MA 01772
US

FC-33-57 (hex) KAGA FEI Co., Ltd.
FC3357 (base 16) KAGA FEI Co., Ltd.
100-45, Shinyokohama 2-Chome
Kohoku-Ku Yokohama-Shi Kanagawa 222-8508
JP

50-02-38 (hex) Nokia Shanghai
Bell Co., Ltd.
500238 (base 16) Nokia Shanghai Bell Co., Ltd.
No.388 Ning Qiao Road,Jin Qiao Pudong Shanghai
Shanghai 201206
CN

AC-AD-4B (hex) zte corporation
ACAD4B (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

A8-16-9D (hex) Hui Zhou Gaoshengda Technology Co.,LTD
A8169D (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.2,Jin-da Road,Huinan Industrial Park
Hui Zhou Guangdong 516025
CN

44-49-88 (hex) Intel Corporate
444988 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

FC-91-89 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
FC9189 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD

No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

F8-F0-C5 (hex) Suzhou Kuhan Information Technologies Co.,Ltd.
F8F0C5 (base 16) Suzhou Kuhan Information
Technologies Co.,Ltd.
4F?A5F, SISPARK Building 17, Industrial Park District, Suzhou
Suzhou Jiangsu 215028
CN

F8-DE-73 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F8DE73 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

EC-1A-02 (hex) HUAWEI TECHNOLOGIES CO.,LTD
EC1A02 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

1C-1A-1B (hex) Shanghai Sunmi Technology Co.,Ltd.
1C1A1B (base 16) Shanghai Sunmi Technology Co.,Ltd.
Room 505, No.388 Song Hu Road, Yang Pu District, Shanghai, China
Shanghai Shanghai 200433
CN

80-38-D4 (hex) Fibercentury Network Technology Co.,Ltd.
8038D4 (base 16) Fibercentury Network Technology Co.,Ltd.
No. 1515 and No. 1516, floor 15, unit 2, building 2, Section 1, Huayang Huafu Avenue, Tianfu new area
Chengdu Sichuan 610000
CN

7C-29-6F
(hex) Apple, Inc.
7C296F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

40-ED-CF (hex) Apple, Inc.
40EDCF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

8C-98-6B (hex) Apple, Inc.
8C986B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

1C-86-82 (hex) Apple, Inc.
1C8682 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

80-54-E3 (hex) Apple, Inc.
8054E3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

10-2E-00 (hex) Intel Corporate
102E00 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

20-3A-43 (hex) Intel Corporate
203A43 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

3C-3B-99 (hex) ITEL MOBILE LIMITED
3C3B99 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD,
YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

D0-09-C8 (hex) Cisco Systems, Inc
D009C8 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

D0-39-57 (hex) Liteon Technology Corporation
D03957 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

48-E7-29 (hex) Espressif Inc.
48E729 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

E8-BA-E2 (hex) Xplora Technologies AS
E8BAE2 (base 16) Xplora Technologies AS
Nedre Slottsgate 8
Oslo 0157
NO

5C-A0-6C (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
5CA06C (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

A8-3B-76 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
A83B76 (base 16) CLOUD
NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

9C-DE-4D (hex) ML vision Co.,LTD
9CDE4D (base 16) ML vision Co.,LTD
#503, 403-dong, Bucheon Techno Park, 655, Pyeongcheon-ro
Bucheon-si Gyeonggi-do 14502
KR

20-31-8D (hex) Giax GmbH
20318D (base 16) Giax GmbH
Am Weichselgarten 7
Erlangen 91058
DE

3C-B0-7E (hex) Arounds Intelligent Equipment Co., Ltd.
3CB07E (base 16) Arounds Intelligent Equipment Co., Ltd.
Room 701~703,Vanke Huamao Plaza? No.508, East 2nd Section, 2ndRingRoad,Chenghua District
Chengdu Sichuan 610000
CN

C0-4E-8A (hex) HUAWEI TECHNOLOGIES CO.,LTD
C04E8A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

68-41-8F (hex) Telechips, Inc.
68418F (base 16) Telechips, Inc.
19F~23F,Luther
Bldg.42, Olympic-ro 35da-gil, Songpa-gu,
Seoul Seoul 05510
KR

BC-9E-BB (hex) Nintendo Co.,Ltd
BC9EBB (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

90-27-78 (hex) Open Infrastructure
902778 (base 16) Open Infrastructure
Neufeldstrasse 125
Bern 3012
CH

90-DA-F9 (hex) Siemens Rail Automation SAU
90DAF9 (base 16) Siemens Rail Automation SAU
Ronda de Europa, 5
Tres Cantos 28760
ES

F8-00-9D (hex) INTRACOM DEFENSE S.A.
F8009D (base 16) INTRACOM DEFENSE S.A.
21 Km. Markopoulou Ave.
Koropi Attica 19441
GR

20-16-42 (hex) Microsoft Corporation
201642 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

CC-8D-B5 (hex) Shenzhen SuperElectron Technology Co.,Ltd.
CC8DB5 (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

AC-EE-64 (hex) Shenzhen SuperElectron Technology Co.,Ltd.
ACEE64 (base 16) Shenzhen SuperElectron Technology Co.,Ltd.

1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

68-EE-4B (hex) Sharetronic Data Technology Co.,Ltd
68EE4B (base 16) Sharetronic Data Technology Co.,Ltd
Room 1209, 12 / F, Building 1, Yaohua Foundation Building, Shennan Avenue, Futian District
Shenzhen Guangdong 518040
CN

48-C3-5A (hex) LENOVO(BEIJING)CO., LTD.
48C35A (base 16) LENOVO(BEIJING)CO., LTD.
Lenovo HQ East,Building 1,No.10 Courtyard Xibeiwang East Road,Haidian District
Beijing 100176
CN

B4-DB-91 (hex) CELESTICA INC.
B4DB91 (base 16) CELESTICA INC.
1900-5140 Yonge Street PO Box 42
Toronto Ontario M2N 6L7
CA

84-07-C4 (hex) Carrier Corporation
8407C4 (base 16) Carrier Corporation
13995
Pasteur Boulevard
Palm Beach Gardens FL 33418
US

44-64-3C (hex) Cisco Systems, Inc
44643C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

24-16-1B (hex) Cisco Systems, Inc
24161B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A8-40-0B (hex) Visteon Corporation
A8400B (base 16) Visteon Corporation
One Village Center Drive
Van Buren Twp MI 48111
US

08-56-9B (hex) WiZ

08569B (base 16) WiZ
Unit 1203-5, 12/F, Tower 1, Enterprise Square, 9 Sheung Yuet Road
Kowloon Bay Hong Kong 0000
HK

60-70-6C (hex) Google, Inc.
60706C (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

C8-2A-DD (hex) Google, Inc.
C82ADD (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

24-09-35 (hex) Samsung Electronics Co.,Ltd
240935 (base 16) Samsung Electronics
Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

8C-94-6A (hex) New H3C Technologies Co., Ltd
8C946A (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

FC-11-65 (hex) Cambium Networks Limited
FC1165 (base 16) Cambium Networks Limited
Unit B2, Linhay Business Park,
Ashburton Devon TQ13 7UP
GB

40-E1-1C (hex) shenzhen Cloud High Communication Technology Co.,Ltd
40E11C (base 16) shenzhen Cloud High Communication Technology Co.,Ltd
Room 1908, Building 1, Jinlitong Financial Center Building, No. 1100, Xingye Road, Haiwang Community, Xin'an Street, Bao'an District, Shenzhen, China
Shenzhen 518128
CN

C0-BF-AC (hex) Huawei Device Co., Ltd.
C0BFAC (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

44-27-2E (hex) Huawei Device Co., Ltd.
44272E (base 16) Huawei Device
Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

10-66-50 (hex) Robert Bosch JuP1
106650 (base 16) Robert Bosch JuP1
Robert Bosch 1150
Juarez Chihuahua 32557
MX

A8-0C-03 (hex) Florawise
A80C03 (base 16) Florawise
?TÜ Ar? Teknokent No:6 Sar?yer
?stanbul 34467
TR

C4-83-72 (hex) IEEE Registration Authority
C48372 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

C0-A5-E8 (hex) Intel Corporate
C0A5E8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

90-65-84 (hex) Intel Corporate
906584 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

28-C5-D2 (hex) Intel Corporate
28C5D2 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

08-1A-FD (hex) Huawei Device Co., Ltd.
081AFD (base 16) Huawei Device Co., Ltd.
No.2

of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

00-12-F3 (hex) u-blox AG
0012F3 (base 16) u-blox AG
Norra Vallgatan 64
Malmoe SE-211 22
SE

54-70-68 (hex) VTech Communications Limited
547068 (base 16) VTech Communications Limited
23/F, Tai Ping Industrial Centre, Block 1, 57 Ting Kok Road, Tai Po, New Territories
Hong kong 00852
HK

C8-40-52 (hex) PAX Computer Technology(Shenzhen) Ltd.
C84052 (base 16) PAX Computer Technology(Shenzhen) Ltd.
4/F, No.3 Building, Software Park, Second Central Science-Tech Road, High-Tech
Shenzhen GuangDong 518057
CN

C4-61-C7 (hex) Microsoft Corporation
C461C7 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

AC-CB-36 (hex) Fiberhome Telecommunication Technologies Co.,LTD
ACCB36 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

FC-DF-00
(hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
FCDF00 (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

F0-1A-A0 (hex) Aruba, a Hewlett Packard Enterprise Company
F01AA0 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

1C-8B-76 (hex) Calix Inc.

1C8B76 (base 16) Calix Inc.
2777 Orchard Pkwy
San Jose CA 95131
US

E4-8C-73 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
E48C73 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

2C-B6-C8 (hex) Raisecom Technology CO., LTD
2CB6C8 (base 16) Raisecom Technology CO., LTD
No. 11, East Area, No. 10 Block, East Xibeiwang Road
Beijing 100094
CN

D8-34-D1 (hex) Shenzhen Orange Digital Technology
Co.,Ltd
D834D1 (base 16) Shenzhen Orange Digital Technology Co.,Ltd
Room 2305,Building 2,Phase 6 ,Vanke Yuncheng,Tongfa South Road,Xili Community,Xili Street,Nanshan District,Shenzhen
Shenzhen 518055
CN

84-22-89 (hex) Samsung Electronics Co.,Ltd
842289 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

2C-94-52 (hex) HUAWEI TECHNOLOGIES CO.,LTD
2C9452 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

60-01-B1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
6001B1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

5C-BB-EE (hex) zte corporation
5CBBEE (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

84-AA-A4 (hex) SONoC Corp.
84AAA4 (base 16) SONoC Corp.
8F-3,
No. 1071, Zhongzheng Road, Taoyuan District, Taoyuan city, Taiwan
Taoyuan 330
TW

88-3C-93 (hex) Alcatel-Lucent Enterprise
883C93 (base 16) Alcatel-Lucent Enterprise
26801 West Agoura Rd
Calabasas CA 91301
US

D0-06-6A (hex) Cornelis Networks, Inc.
D0066A (base 16) Cornelis Networks, Inc.
1500 Liberty Ridge Drive, Suite 100
Wayne PA 19087
US

88-3C-C5 (hex) IEEE Registration Authority
883CC5 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

2C-9E-00 (hex) Sony Interactive Entertainment Inc.
2C9E00 (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

DC-6A-E7 (hex) Xiaomi Communications Co Ltd
DC6AE7 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

7C-A4-49 (hex) Xiaomi Communications Co Ltd
7CA449 (base 16) Xiaomi Communications
Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

98-20-44 (hex) New H3C Technologies Co., Ltd
982044 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District

Hangzhou Zhejiang 310052
CN

D8-A0-E8 (hex) zte corporation
D8A0E8 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

E8-BF-DB (hex) Inodesign Group
E8BFDB (base 16) Inodesign Group
155 Avenue Georges Hannart
CROIX 59170
FR

28-7E-80 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
287E80 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.2,Jin-da Road,Huinan Industrial Park
Hui Zhou Guangdong 516025
CN

0C-9F-71 (hex) Dolphin Electronics (DongGuan) Co., Ltd.
0C9F71 (base 16) Dolphin Electronics (DongGuan) Co., Ltd.
Building 3,No.2 Baolong Road, Houjie Town,
Dongguan Guangdong 523000
CN

74-58-89
(hex) Multilaser Industrial S.A.
745889 (base 16) Multilaser Industrial S.A.
Rua Josefa Gomes de Souza, 382
Extrema Minas Gerais 37640-000
BR

E8-FF-98 (hex) Huawei Device Co., Ltd.
E8FF98 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

24-15-51 (hex) Huawei Device Co., Ltd.
241551 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

58-95-7E (hex) Huawei Device Co., Ltd.
58957E (base 16) Huawei Device Co., Ltd.

No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

B8-14-4D (hex) Apple, Inc.
B8144D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

EC-28-D3 (hex) Apple, Inc.
EC28D3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-96-5B (hex) Lucid Motors
AC965B (base 16) Lucid
Motors
7373 Gateway Blvd
Newark CA 94560
US

08-65-18 (hex) Apple, Inc.
086518 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

2C-57-CE (hex) Apple, Inc.
2C57CE (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C4-04-D8 (hex) Aviva Links Inc.
C404D8 (base 16) Aviva Links Inc.
160 E Tasman DrSTE 102
SAN JOSE CA 95134
US

A0-44-F3 (hex) RafaelMicro
A044F3 (base 16) RafaelMicro
8F.,No.28,Chenggong 12th St.
ChuBei City HsinChu County 30264
TW

F4-2B-7D (hex) Chipsguide technology CO.,LTD.

F42B7D (base 16) Chipsguide technology CO.,LTD.
No.758 in DongHua Design House, Nan Guang Road, Nan Shan Tone, ShenZhen, Guangdong, China
Shenzhen Guangdong 518002
CN

8C-52-19 (hex) SHARP Corporation
8C5219 (base 16) SHARP Corporation
1 Takumi-cho, Sakai-ku
Sakai City Osaka 590-8522
JP

08-91-15 (hex) Amazon Technologies Inc.
089115
(base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

74-D4-23 (hex) Amazon Technologies Inc.
74D423 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

E0-47-35 (hex) Ericsson AB
E04735 (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

BC-D7-67 (hex) BAE Systems Apllied Intelligence
BCD767 (base 16) BAE Systems Apllied Intelligence
170 Waterside House
Guildford Surrey GU2 7RQ
GB

EC-1D-9E (hex) Quectel Wireless Solutions Co.,Ltd.
EC1D9E (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

08-1A-1E (hex) Shenzhen iComm Semiconductor CO.,LTD
081A1E (base 16) Shenzhen iComm Semiconductor CO.,LTD
Room 601,Block B ,Digital Building,Garden City
Shenzhen No.1079 Nanhai Road,Nanshan District 518067
CN

80-64-6F (hex) Espressif Inc.
80646F
(base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

80-39-8C (hex) Samsung Electronics Co.,Ltd
80398C (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

98-0D-6F (hex) Samsung Electronics Co.,Ltd
980D6F (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

1C-90-FF (hex) Tuya Smart Inc.
1C90FF (base 16) Tuya Smart Inc.
160 Greentree Drive, Suite 101
Dover DE 19904
US

10-82-3D (hex) Ruijie Networks Co.,LTD
10823D (base 16) Ruijie Networks Co.,LTD
No. 2, 7th floor, xingwangruijie, haixi hi-tech industrial park, high-tech zone, fuzhou city
Fuzhou Fujian 350002
CN

50-5F-B5 (hex) ASKEY COMPUTER CORP
505FB5 (base 16) ASKEY COMPUTER CORP
10F, NO. 119, JIANKANG RD., ZHONGHE DIST.
NEW TAIPEI 235
TW

88-DE-7C (hex) ASKEY COMPUTER CORP
88DE7C (base 16) ASKEY
COMPUTER CORP
10F, No.119, JIANKANG RD.,ZHINGHE DIST,
NEW TAIPEI CITY 23585
TW

04-57-47 (hex) GoPro
045747 (base 16) GoPro
3000 Clearview Way
San Mateo CA 94402

US

80-56-3C (hex) ZF
80563C (base 16) ZF
Ehlersstraße 50
Friedrichshafen BW 88046
DE

90-98-77 (hex) Vestel Elektronik San ve Tic. A.S.
909877 (base 16) Vestel Elektronik San ve Tic. A.S.
Organize san
Manisa Turket 45030
TR

3C-A7-AE (hex) zte corporation
3CA7AE (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

AC-31-84 (hex) Huawei Device Co., Ltd.
AC3184 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

50-3F-50 (hex) Huawei Device Co., Ltd.
503F50 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

2C-69-1D
(hex) IEEE Registration Authority
2C691D (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

40-A5-3B (hex) Nokia
40A53B (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

74-80-3F (hex) Renesas Electronics (Penang) Sdn. Bhd.
74803F (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ

Bayan Lepas Penang 11900
MY

20-9C-B4 (hex) Aruba, a Hewlett Packard Enterprise Company
209CB4 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

5C-60-BA (hex) HP Inc.
5C60BA (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

BC-F8-8B (hex) zte corporation
BCF88B (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

68-53-9D (hex) EM Microelectronic
68539D (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier
Neuchatel 2074
CH

E0-51-D8 (hex) China Dragon Technology Limited
E051D8 (base 16) China Dragon Technology Limited
B4 Bldg.Haoshan 1st Industry Park,
Shenzhen Guangdong 518104
CN

E8-CC-8C (hex) Chengdu Jiarui Hualian Communication Technology Co
E8CC8C (base 16) Chengdu Jiarui Hualian Communication Technology Co
5th Floor, Building F, Huirong Plaza (Jinhua), No. 88, Section 3, Jinhua Road, Industrial Park, Jinjiang District, Chengdu, Sichuan Province
Chengdu Sichuan 610000
CN

E4-65-64 (hex) SHENZHEN KTC TECHNOLOGY CO.,LTD
E46564 (base 16) SHENZHEN KTC TECHNOLOGY CO.,LTD
Add: NO.4023, Wuhe Road, Bantian, Longgang District, Shenzhen, China
SHEN ZHEN GUANG DONG 518100
CN

E0-EF-02 (hex) Chengdu Quanjing Intelligent Technology Co.,Ltd

E0EF02 (base 16) Chengdu Quanjing Intelligent Technology Co.,Ltd
Building A2, Chi Yuen Technology Park, 1001 College Avenue, Nanshan District, Shenzhen,P.R.C.
Shenzhen
Guangdong 518000
CN

4C-A3-A7 (hex) TECNO MOBILE LIMITED
4CA3A7 (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

B0-67-B5 (hex) Apple, Inc.
B067B5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

5C-52-84 (hex) Apple, Inc.
5C5284 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C0-95-6D (hex) Apple, Inc.
C0956D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

90-0A-62 (hex) Inventus Power Eletronica do Brasil LTDA
900A62 (base 16) Inventus Power Eletronica do Brasil LTDA
Av Buriti, 4285 Distrito Industrial
Manaus Amazonas 69075000
BR

04-43-FD (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
0443FD (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain
Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

7C-DE-78 (hex) New H3C Technologies Co., Ltd
7CDE78 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052

CN

A4-89-7E (hex) Guangzhou Yuhong Technology Co.,Ltd.
A4897E (base 16) Guangzhou Yuhong Technology Co.,Ltd.
Room 402, No. 11 Software Road, Tianhe District, Guangzhou
Guangzhou Guangdong 510640
CN

EC-A1-38 (hex) Amazon Technologies Inc.
ECA138 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

3C-E0-64 (hex) Texas Instruments
3CE064 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

E0-92-8F (hex) Texas Instruments
E0928F (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

CC-03-7B (hex) Texas Instruments
CC037B (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

58-1C-F8 (hex) Intel
Corporate
581CF8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

AC-19-8E (hex) Intel Corporate
AC198E (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C8-5E-A9 (hex) Intel Corporate
C85EA9 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3

Kulim Kedah 09000
MY

C8-BF-4C (hex) Beijing Xiaomi Mobile Software Co., Ltd
C8BF4C (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

3C-39-C8 (hex) Apple, Inc.
3C39C8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A8-AB-B5 (hex) Apple, Inc.
A8ABB5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

58-64-C4 (hex) Apple, Inc.
5864C4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-84-C6 (hex) TP-LINK TECHNOLOGIES
CO.,LTD.
AC84C6 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

1C-0E-D3 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
1C0ED3 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

CC-29-BD (hex) zte corporation
CC29BD (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

38-5C-FB (hex) Silicon Laboratories
385CFB (base 16) Silicon Laboratories

400 West Cesar Chavez Street
Austin TX 78701
US

C4-3D-1A (hex) Intel Corporate
C43D1A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

04-E8-B9 (hex) Intel Corporate
04E8B9 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3

Kulim Kedah 09000
MY

E0-2E-0B (hex) Intel Corporate
E02E0B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

38-0A-4F (hex) PRACHI ENTERPRISES
380A4F (base 16) PRACHI ENTERPRISES
B-141, 2nd FLOOR SECTOR-6 NOIDA
NOIDA UTTARPRADESH 201301
IN

0C-BE-F1 (hex) Huawei Device Co., Ltd.
0CBEF1 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

AC-93-6A (hex) Huawei Device Co., Ltd.
AC936A (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

38-A4-4B (hex) Huawei Device Co., Ltd.
38A44B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

80-19-70 (hex) Samsung Electronics Co.,Ltd

801970 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B8-FB-AF
(hex) Xiamen IPRT Technology CO.,LTD
B8FBAF (base 16) Xiamen IPRT Technology CO.,LTD
3~5Floor,No.101,Huili Industry Park,Meixi Road,Tongan District,Xiamen,China.
xiamen fujian 361000
CN

34-85-18 (hex) Espressif Inc.
348518 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

54-9A-11 (hex) IEEE Registration Authority
549A11 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

E0-F7-28 (hex) Amazon Technologies Inc.
E0F728 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

24-29-34 (hex) Google, Inc.
242934 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

EC-E6-A2 (hex) Fiberhome Telecommunication Technologies Co.,LTD
ECE6A2 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

38-22-F4
(hex) Huawei Device Co., Ltd.
3822F4 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

80-02-F4 (hex) IEEE Registration Authority
8002F4 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

14-9B-F3 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
149BF3 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

B8-50-D8 (hex) Beijing Xiaomi Mobile Software Co., Ltd
B850D8 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

C0-9F-51 (hex) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
C09F51 (base 16) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
NO.8 Tangzhuang Road,Suzhou Industrial Park,Su ZhouCity,JiangSu Province,China
Suzhou 215021
CN

10-07-1D
(hex) Fiberhome Telecommunication Technologies Co.,LTD
10071D (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

10-B2-32 (hex) Qingdao Intelligent&Precise Electronics Co.,Ltd.
10B232 (base 16) Qingdao Intelligent&Precise Electronics Co.,Ltd.
No.218 Qianwangang Road
Qingdao Shangdong 266510
CN

AC-5A-F0 (hex) LG Electronics
AC5AF0 (base 16) LG Electronics
222 LG-ro, JINWI-MYEON
Pyeongtaek-si Gyeonggi-do 451-713
KR

EC-A6-2F (hex) HUAWEI TECHNOLOGIES CO.,LTD
ECA62F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

A0-CD-F3 (hex) Murata Manufacturing Co., Ltd.
A0CDF3 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

B4-8A-0A (hex) Espressif Inc.
B48A0A (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo
Rd, Pudong New Area
Shanghai Shanghai 201203
CN

C8-3A-1B (hex) Toshiba TEC Corporation Inc
C83A1B (base 16) Toshiba TEC Corporation Inc
Oval Court Ohsaki Mark East
Shinagawa-ku Tokyo 141-8664
JP

C8-C1-3C (hex) RuggedTek Hangzhou Co., Ltd
C8C13C (base 16) RuggedTek Hangzhou Co., Ltd
Zhejiang University National Science Park
Hangzhou Zhejiang 310013
CN

5C-53-C3 (hex) Ubee Interactive Co., Limited
5C53C3 (base 16) Ubee Interactive Co., Limited
Flat/RM 1202, 12/F, AT Tower, 180 Electric Road
North Point 00000
HK

84-70-D7 (hex) eero inc.
8470D7 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

9C-1F-CA (hex) Hangzhou AlmightyDigit Technology Co., Ltd
9C1FCA (base 16) Hangzhou AlmightyDigit Technology Co., Ltd
Room A0041, 10 / F, building 1, Haizhi center, Cangqian street, Yuhang District
Hangzhou Zhejiang 310000
CN

24-2C-FE (hex) Zhejiang Tmall Technology
Co., Ltd.
242CFE (base 16) Zhejiang Tmall Technology Co., Ltd.

No.969 Wenyi West Road, Wuchang Street, Yuhang District
Hangzhou Zhejiang 310024
CN

A0-42-D1 (hex) Huawei Device Co., Ltd.
A042D1 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

58-87-9F (hex) Huawei Device Co., Ltd.
58879F (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

2C-DC-78 (hex) Descartes Systems (USA) LLC
2CDC78 (base 16) Descartes Systems (USA) LLC
2030 Powers Ferry Road SE
Atlanta GA 303339
US

F4-B3-B1 (hex) Silicon Laboratories
F4B3B1 (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

58-1D-D8 (hex) Sagemcom Broadband SAS
581DD8 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

E8-D8-7E
(hex) Amazon Technologies Inc.
E8D87E (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

30-D5-87 (hex) Samsung Electronics Co.,Ltd
30D587 (base 16) Samsung Electronics Co.,Ltd
#416, Maetan 3-dong
Suwon-si Gyeonggi-do 443-742
KR

08-E6-3B (hex) zte corporation

08E63B (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

88-C1-74 (hex) zte corporation
88C174 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

C8-9E-61 (hex) Lyngsoe Systems LTd
C89E61 (base 16) Lyngsoe Systems LTd
101 Simona Dr., Unit 2
Bolton Ontario L7E 4E8
CA

6C-15-24 (hex) IEEE Registration Authority
6C1524 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

C0-8D-51 (hex) Amazon Technologies Inc.
C08D51 (base 16) Amazon
Technologies Inc.
P.O Box 8102
Reno NV 89507
US

44-B4-B2 (hex) Amazon Technologies Inc.
44B4B2 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

AC-CC-FC (hex) Amazon Technologies Inc.
ACCCFC (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

14-F5-92 (hex) Shenzhen SDG DONZHI Technology Co., Ltd
14F592 (base 16) Shenzhen SDG DONZHI Technology Co., Ltd
1001 SDG Information Technology Building, No.2 Qiongyu Road, Science park Community, Yuehai Street, Nanshan District,
Shenzhen GuangDong 518000
CN

4C-09-FA (hex) FRONTIER SMART TECHNOLOGIES LTD
4C09FA (base 16) FRONTIER SMART TECHNOLOGIES LTD
17 Waterloo Place
London SW1Y 4AR
GB

48-B4-C3 (hex) Aruba, a Hewlett Packard Enterprise Company
48B4C3 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

E8-DC-6C (hex) Cisco Systems, Inc
E8DC6C
(base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

68-A7-B4 (hex) Honor Device Co., Ltd.
68A7B4 (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District
Shenzhen Guangdong 518040
CN

80-3C-20 (hex) HUAWEI TECHNOLOGIES CO.,LTD
803C20 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A4-DD-58 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A4DD58 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

2C-82-17 (hex) Apple, Inc.
2C8217 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

78-03-4F (hex) Nokia
78034F (base 16) Nokia
600 March Road

Kanata Ontario K2K 2E6
CA

9C-57-BC (hex) eero inc.
9C57BC (base 16) eero
inc.
660 3rd Street
San Francisco CA 94107
US

00-15-A6 (hex) Digital Electronics Products Ltd.
0015A6 (base 16) Digital Electronics Products Ltd.
Room 301, 3 rd Floor, Tsun Yip Centre
Kwun Tong 852
HK

B0-1F-8C (hex) Aruba, a Hewlett Packard Enterprise Company
B01F8C (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

00-0A-D0 (hex) Niigata Develoment Center, F.I.T. Co., Ltd.
000AD0 (base 16) Niigata Develoment Center, F.I.T. Co., Ltd.
Akane-Niigata Building 2F
Niigata Niigata Prefecture 950-0944
JP

7C-EF-40 (hex) Nextorage Corporation
7CEF40 (base 16) Nextorage Corporation
Kawasaki-eki-mae Tower Riverk 9F, 12-1, Ekimaehoncho, Kawasaki-ku
Kawasaki City Kanagawa 210-0007
JP

C0-E0-1C (hex) IoT Security Group, SL
C0E01C (base 16) IoT Security Group, SL
Calle Pez Dorado, 27, local 2
Torremolinos Malaga 29620
ES

A8-A2-37
(hex) Arcadyan Corporation
A8A237 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

F8-AB-82 (hex) Xiaomi Communications Co Ltd

F8AB82 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

EC-30-B3 (hex) Xiaomi Communications Co Ltd
EC30B3 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

90-2C-FB (hex) CanTops Co,.Ltd.
902CFB (base 16) CanTops Co,.Ltd.
A-1002 Digital Empire, 16, Deogyong-daero 1556beon-gil
Yeongtong-gu Suwon-si, Gyonggi-do 1660
KR

1C-AF-4A (hex) Samsung Electronics Co.,Ltd
1CAF4A (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

C8-12-0B (hex) Samsung Electronics Co.,Ltd
C8120B (base 16) Samsung Electronics Co.,Ltd
129,
Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

28-BE-43 (hex) vivo Mobile Communication Co., Ltd.
28BE43 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

2C-FC-8B (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
2CFC8B (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

28-74-F5 (hex) Nokia Solutions and Networks GmbH & Co. KG
2874F5 (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

B0-3F-64 (hex) Apple, Inc.
B03F64 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

14-2D-4D (hex) Apple, Inc.
142D4D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

EC-42-CC (hex) Apple, Inc.
EC42CC (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B8-21-1C
(hex) Apple, Inc.
B8211C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A0-44-66 (hex) Intellics
A04466 (base 16) Intellics
697, Pangyo-ro, Bundang-gu
Seongnam-si Gyeonggi-do 13511
KR

44-6D-7F (hex) Amazon Technologies Inc.
446D7F (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno 89507
US

24-06-F2 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
2406F2 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

90-93-5A (hex) ARRIS Group, Inc.
90935A (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

AC-8F-A9 (hex) Nokia Solutions and Networks GmbH & Co. KG
AC8FA9 (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

44-29-1E (hex) AltoBeam (China) Inc.
44291E (base 16) AltoBeam
(China) Inc.
B808, Tsinghua Tongfang Hi-Tech Plaza, Haidian
Beijing Beijing 100083
CN

24-EB-ED (hex) HUAWEI TECHNOLOGIES CO.,LTD
24EBED (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

AC-51-AB (hex) HUAWEI TECHNOLOGIES CO.,LTD
AC51AB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

48-CD-D3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
48CDD3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-C9-8A (hex) New H3C Technologies Co., Ltd
A8C98A (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

E0-27-6C (hex) Guangzhou Shiyuan Electronic Technology Company Limited
E0276C (base 16) Guangzhou Shiyuan Electronic Technology Company
Limited
No.6, 4th Yunpu Road, Yunpu industry District
Guangzhou Guangdong 510530
CN

DC-8E-95 (hex) Silicon Laboratories
DC8E95 (base 16) Silicon Laboratories
400 West Cesar Chavez Street

Austin TX 78701
US

00-26-04 (hex) WorldCast Systems
002604 (base 16) WorldCast Systems
20 Avenue Neil Armstrong
Mérignac 33700
FR

F8-AD-24 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
F8AD24 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

CC-66-18 (hex) Adtran Inc
CC6618 (base 16) Adtran Inc
901 Explorer Blvd.
Huntsville AL 35806-2807
US

C0-C1-70 (hex) Shenzhen SuperElectron Technology Co.,Ltd.
C0C170 (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong
518000
CN

50-42-89 (hex) zte corporation
504289 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

04-E3-1A (hex) Sagemcom Broadband SAS
04E31A (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

18-BC-57 (hex) ADVA Optical Networking Ltd.
18BC57 (base 16) ADVA Optical Networking Ltd.
ADVAntage House
York YO30 4RY
GB

D8-E2-DF (hex) Microsoft Corporation
D8E2DF (base 16) Microsoft Corporation

One Microsoft Way
REDMOND WA 98052
US

E8-EB-D3 (hex) Mellanox Technologies, Inc.
E8EBD3 (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

6C-99-9D (hex) Amazon Technologies Inc.
6C999D (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

68-18-D9 (hex) Hill AFB - CAPRE Group
6818D9
(base 16) Hill AFB - CAPRE Group
7278 4th Street
Hill AFB UT 84056
US

1C-61-B4 (hex) TP-Link Corporation Limited
1C61B4 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

9C-A2-F4 (hex) TP-Link Corporation Limited
9CA2F4 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

7C-6A-60 (hex) China Mobile Group Device Co.,Ltd.
7C6A60 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

B4-69-5F (hex) TCT mobile ltd
B4695F (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

6C-0F-61 (hex) Hypervolt Ltd

6C0F61 (base 16) Hypervolt Ltd
25 Churchill Place
London E14 5EY
GB

24-75-3A (hex) GUANGDONG OPPO
MOBILE TELECOMMUNICATIONS CORP.,LTD
24753A (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

6C-93-08 (hex) IEEE Registration Authority
6C9308 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

38-8F-30 (hex) Samsung Electronics Co.,Ltd
388F30 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

84-C6-92 (hex) Texas Instruments
84C692 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

6C-B2-FD (hex) Texas Instruments
6CB2FD (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

C0-06-0C (hex) HUAWEI TECHNOLOGIES CO.,LTD
C0060C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B0-A4-F0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B0A4F0 (base 16) HUAWEI TECHNOLOGIES
CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

8C-15-53 (hex) Beijing Memblaze Technology Co Ltd
8C1553 (base 16) Beijing Memblaze Technology Co Ltd
Building B2,Dongsheng Park, 66 Xixiaokou Road, Haidian
Beijing Beijing 100192
CN

6C-B1-58 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
6CB158 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

A8-53-7D (hex) Mist Systems, Inc.
A8537D (base 16) Mist Systems, Inc.
1601 South De Anza Blvd, Suite 248
Cupertino CA 95014
US

30-34-22 (hex) eero inc.
303422 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

30-2B-DC (hex) Top-Unum Electronics Co., LTD
302BDC (base 16) Top-Unum Electronics Co., LTD
No. 58, Ln. 137, Jianshan Rd., Yingge Dist.,
New Taipei City 239,
Taiwan 239
CN

90-F7-B2 (hex) New H3C Technologies Co., Ltd
90F7B2 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

1C-47-F6 (hex) Zhidao Network Technology(Shenzhen) Co.,Ltd
1C47F6 (base 16) Zhidao Network Technology(Shenzhen) Co.,Ltd
B3, 11 / F, Exiang Technology Building, No. 31, Zhongsi Road, Gaoxin, Maling Community, Yuehai Street, Nanshan District
Shenzhen 518000
CN

00-0C-D6 (hex) PARTNER TECH
000CD6 (base 16) PARTNER TECH
10F, NO.233-2,PAO CHIAO ROAD, SHIN TIEN

TAIPEI 231
TW

D4-BD-4F (hex) Ruckus Wireless
D4BD4F (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

5C-C9-C0 (hex) Renesas Electronics (Penang) Sdn. Bhd.
5CC9C0 (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

E4-DA-DF (hex) Taicang T&W Electronics
E4DADF (base 16) Taicang
T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

7C-35-F8 (hex) Zhejiang Tmall Technology Co., Ltd.
7C35F8 (base 16) Zhejiang Tmall Technology Co., Ltd.
No.969 Wenyi West Road, Wuchang Street, Yuhang District
Hangzhou Zhejiang 310024
CN

74-26-FF (hex) zte corporation
7426FF (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

C4-27-28 (hex) zte corporation
C42728 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

C8-58-95 (hex) Motorola Mobility LLC, a Lenovo Company
C85895 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

E8-81-AB (hex) Beijing Sankuai Online Technology Co.,Ltd
E881AB (base 16) Beijing Sankuai Online Technology Co.,Ltd

BC Building, China Electronic Science Taiji Information
Technology Industry Base, Yard 7, Rongda Road, Chaoyang District
Beijing 100102
CN

E8-D3-22 (hex) Cisco Systems, Inc
E8D322 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

2C-33-41 (hex) China Mobile IOT Company Limited
2C3341 (base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area
Chongqing Chongqing 401336
CN

AC-56-7B (hex) Sunnovo International Limited
AC567B (base 16) Sunnovo International Limited
1717 Haitai Building
Beijing Beijing 100083
CN

34-D7-37 (hex) IBG Industriebeteiligungsgesellschaft mbH &b Co. KG
34D737 (base 16) IBG Industriebeteiligungsgesellschaft mbH &b Co. KG
Pferdmengestr. 1
Cologne NRW 50968
DE

C0-79-82 (hex) TCL King Electrical Appliances(Huizhou)Co.,Ltd
C07982 (base 16) TCL King Electrical Appliances(Huizhou)Co.,Ltd
B Area, 10th floor, TCL multimedia Building, TCL International E City, #1001 Zhonshanyuan
road,Shenzhen
guangdong China 518058
CN

7C-C9-5E (hex) Dongguan Liesheng Electronic Co., Ltd.
7CC95E (base 16) Dongguan Liesheng Electronic Co., Ltd.
F5, Building B, North Block, Gaosheng Tech Park, No. 84 Zhongli Road, Nancheng District, Dongguan Ci
dongguan guangdong 523000
CN

9C-C1-2D (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
9CC12D (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

A0-B4-BF (hex) InfiNet LLC
A0B4BF (base 16) InfiNet LLC
Office 425, 69/75 Vavilova str.
Moscow\ 117335
RU

D0-ED-FF (hex) ZF CVCS
D0EDFF (base 16) ZF CVCS
Am Lindener Hafen 21
Hannover 30453
DE

98-8F-E0 (hex) IEEE Registration Authority
988FE0 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

F8-A9-1F (hex) ZVISION Technologies Co., Ltd
F8A91F (base 16) ZVISION
Technologies Co., Ltd
108, No.1, Block A, Zhongguancun Software Park, Haidian District
Beijing Beijing 100085
CN

4C-BA-D7 (hex) LG Innotek
4CBAD7 (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

08-E0-21 (hex) Honor Device Co., Ltd.
08E021 (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District
Shenzhen Guangdong 518040
CN

8C-C7-C3 (hex) NETLINK ICT
8CC7C3 (base 16) NETLINK ICT
Jupitor Jn,Near Time kids Koothattukulam - Piravom Rd
Ernakulam KL 686662
IN

B0-5C-16 (hex) Fiberhome Telecommunication Technologies Co.,LTD
B05C16 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074

CN

80-65-7C (hex) Apple, Inc.
80657C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

DC-80-84 (hex) Apple,
Inc.
DC8084 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

10-2C-8D (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
102C8D (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

C0-FB-C1 (hex) ITEL MOBILE LIMITED
C0FBC1 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

98-50-A3 (hex) SIGNALTEK JSC
9850A3 (base 16) SIGNALTEK JSC
2 Ivovaya street, floor 4, office 1, Room 45
Moscow 2 Ivovaya street, floor 4, office 1, Room 45 129329
RU

DC-36-43 (hex) IEEE Registration Authority
DC3643 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

B0-DD-74 (hex) Heimgard Technologies AS
B0DD74 (base 16) Heimgard Technologies AS
Dronning Mauds gate 15
Oslo
Norway 0250
NO

B4-8C-9D (hex) AzureWave Technology Inc.
B48C9D (base 16) AzureWave Technology Inc.

8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

50-B3-B4 (hex) Shenzhen Furuilian Electronic Co.,Ltd.
50B3B4 (base 16) Shenzhen Furuilian Electronic Co.,Ltd.
3/F, No.5 Building Workshop, No.123, Shuitian Industrial Zone,Baoshi East Road, Shuitian Community, Shiyan Street, Bao'an District,
Shenzhen 518000
CN

34-B8-83 (hex) Cisco Systems, Inc
34B883 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

94-E6-86 (hex) Espressif Inc.
94E686 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

F8-28-C9 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F828C9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

FC-11-93 (hex) HUAWEI TECHNOLOGIES CO.,LTD
FC1193
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

7C-CC-FC (hex) Quectel Wireless Solutions Co.,Ltd.
7CCCFC (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

08-00-76 (hex) PC LAN TECHNOLOGIES
080076 (base 16) PC LAN TECHNOLOGIES
5780 LINCOLN DRIVE SUITE 106
MINNEAPOLIS MN 55436
US

D8-B6-73 (hex) Texas Instruments
D8B673 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

B4-F2-67 (hex) Compal Broadband Networks, Inc.
B4F267 (base 16) Compal Broadband Networks, Inc.
13F., No.1, Taiyuan 1st St.
Zhubei City Hsinchu County 30265
TW

2C-FD-B4 (hex) Shenzhen Jingxun Software Telecommunication Technology Co.,Ltd
2CFDB4 (base 16) Shenzhen Jingxun Software Telecommunication Technology Co.,Ltd
3/F,A5 Building
Zhiyuan Community No.1001,Xueyuan Road Nanshan District
Shenzhen Guangdong 518055
CN

38-C8-04 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
38C804 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

E0-07-C2 (hex) FUJIAN STAR-NET COMMUNICATION CO.,LTD
E007C2 (base 16) FUJIAN STAR-NET COMMUNICATION CO.,LTD
19-22# Building, Star-net Science Plaza, Juyuanzhou,
FUZHOU FUJIAN 350002
CN

84-B4-DB (hex) Silicon Laboratories
84B4DB (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

1C-70-C9 (hex) Jiangsu Aisida Electronic Co., Ltd
1C70C9 (base 16) Jiangsu Aisida Electronic Co., Ltd
Aisida Industrial Park,Lanling Road,Danyang Development Zone
DanYang JiangSu 212300
CN

3C-F7-D1 (hex) OMRON Corporation
3CF7D1 (base 16) OMRON Corporation
Shiokoji Horikawa, Shimogyo-ku
Kyoto

600-8530
JP

04-EE-E8 (hex) IEEE Registration Authority
04EEE8 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

9C-B8-B4 (hex) AMPAK Technology,Inc.
9CB8B4 (base 16) AMPAK Technology,Inc.
3F, No.15-1 Zhonghua Road, Hsinchu Industrail Park, Hukou,
Hsinchu Hsinchu,Taiwan R.O.C. 30352
TW

F0-61-C0 (hex) Aruba, a Hewlett Packard Enterprise Company
F061C0 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

DC-CC-E6 (hex) Samsung Electronics Co.,Ltd
DCCCE6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F0-65-AE (hex) Samsung Electronics Co.,Ltd
F065AE (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C0-BA-E6 (hex) Application Solutions (Safety and Security) Ltd
C0BAE6 (base 16) Application Solutions (Safety and Security) Ltd
Unit
2 York Road, Burgess Hill
England West Sussex, England, RH15 9TT RH15 9TT
GB

50-87-4D (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
50874D (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

A0-53-94 (hex) Shenzhen zediel co., Ltd.
A05394 (base 16) Shenzhen zediel co., Ltd.

Xixiang
Shenzhen guangdong 518000
CN

18-D7-93 (hex) IEEE Registration Authority
18D793 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

E8-51-77 (hex) Qingdao Intelligent&Precise Electronics Co.,Ltd.
E85177 (base 16) Qingdao Intelligent&Precise Electronics Co.,Ltd.
No.218 Qianwangang Road
Qingdao Shangdong 266510
CN

38-8A-21 (hex) UAB Teltonika Telematics
388A21 (base 16) UAB Teltonika Telematics
Saltoniskiu str. 9B-1
Vilnius LT-08105
LT

A0-59-50 (hex) Intel Corporate
A05950 (base 16) Intel
Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

2C-DD-5F (hex) Shenzhen iComm Semiconductor CO.,LTD
2CDD5F (base 16) Shenzhen iComm Semiconductor CO.,LTD
Room 601,Block B ,Digital Building,Garden City
Shenzhen No.1079 Nanhai Road,Nanshan District 518067
CN

50-89-D1 (hex) Huawei Device Co., Ltd.
5089D1 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

A4-17-52 (hex) Hifocus Electronics India Private Limited
A41752 (base 16) Hifocus Electronics India Private Limited
No. 3 Sunguvar Street, Chintadripet
Chennai Tamil Nadu 600002
IN

00-62-0B (hex) Broadcom Limited

00620B (base 16) Broadcom Limited
15191 Alton Parkway
Irvine CA 92618
US

40-FE-95 (hex) New H3C Technologies Co., Ltd
40FE95 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

E0-6D-18
(hex) PIONEERCORPORATION
E06D18 (base 16) PIONEERCORPORATION
25-1,yamada
kawagoe-shi saitama 3508555
JP

A4-5F-B9 (hex) DreamBig Semiconductor, Inc.
A45FB9 (base 16) DreamBig Semiconductor, Inc.
2860 Zanker Road, Suite 210
San Jose CA 95134
US

34-5D-9E (hex) Sagemcom Broadband SAS
345D9E (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

18-C2-3C (hex) Lumi United Technology Co., Ltd
18C23C (base 16) Lumi United Technology Co., Ltd
8th Floor, JinQi Wisdom Valley, No.1 TangLing Road, LinXian Ave, Taoyuan Residential District,Nanshan District
ShenZhen GuangDong 518055
CN

04-75-F9 (hex) Taicang T&W Electronics
0475F9 (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

BC-D0-74 (hex) Apple, Inc.
BCD074 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D4-35-4A (hex) ALAXALA
Networks Corporation
D4354A (base 16) ALAXALA Networks Corporation
Shinkawasaki Mitsui Bldg. West Tower.13F, 1-1-2 Kashimada, Saiwai-ku
Kawasaki-shi Kanagawa-ken 212-0058
JP

40-E9-9B (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
40E99B (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak SEMTHAI, WELLGROW INDUSTRIAL ESTATE
Bangpakong Chachoengsao 24180
TH

90-FF-D6 (hex) Honor Device Co., Ltd.
90FFD6 (base 16) Honor Device Co., Ltd.
A1701, Block AB, Building 1, Tianan Yungu Phase I, Gangtou Community, Bantian Street
Shenzhen Guangdong 518129
CN

0C-1E-F7 (hex) Omni-ID
0C1EF7 (base 16) Omni-ID
Omni-ID, The Enterprise Center, Coxbridge Business Park, Alton Road
Farnham Surrey GU105EH
GB

B4-D2-86 (hex) Telechips, Inc.
B4D286 (base 16) Telechips, Inc.
19F~23F,Luther Bldg.42, Olympic-ro 35da-gil, Songpa-gu,
Seoul Seoul 05510
KR

58-CF-79 (hex) Espressif Inc.
58CF79
(base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

78-62-99 (hex) BITSTREAM sp. z o.o.
786299 (base 16) BITSTREAM sp. z o.o.
Melgiewska, 7/9
Lublin 20-209
PL

CC-5B-31 (hex) Nintendo Co.,Ltd
CC5B31 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501

JP

B0-3C-DC (hex) Intel Corporate
B03CDC (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C0-2B-31 (hex) Phytium Technology Co.,Ltd.
C02B31 (base 16) Phytium Technology Co.,Ltd.
Building5,XinAn Business Square,Haiyuan Middle Road Binhai New District,
Tianjin 300450
CN

00-0F-32 (hex) Lootom Telcovideo Network (Wuxi) Co Ltd
000F32 (base 16) Lootom Telcovideo Network (Wuxi) Co Ltd
5F, 9Building,
WuXi JiangSu 214072
CN

8C-F8-C5 (hex) Intel Corporate
8CF8C5 (base 16) Intel Corporate
Lot
8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

08-F8-0D (hex) IEEE Registration Authority
08F80D (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

4C-C4-49 (hex) Icotera A/S
4CC449 (base 16) Icotera A/S
Vibeholms Allé 16
Brøndby 2605
DK

BC-45-5B (hex) Samsung Electronics Co.,Ltd
BC455B (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

78-04-7A (hex) Edge Networks LLC
78047A (base 16) Edge Networks LLC
14 Whistler Hill Lane

HUNTINGTON NY 11743
US

CC-A3-BD (hex) ITEL MOBILE LIMITED
CCA3BD (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

6C-3A-36 (hex) Glowforge Inc
6C3A36 (base 16) Glowforge Inc
2200 1st Ave S
Seattle WA 98134
US

BC-AF-87 (hex) smartAC.com, Inc.
BCAF87 (base
16) smartAC.com, Inc.
5302 Egbert St, SmartACcom
Houston TX 77007
US

10-E8-A7 (hex) Wistron Neweb Corporation
10E8A7 (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

EC-50-AA (hex) Aruba, a Hewlett Packard Enterprise Company
EC50AA (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

A4-EF-15 (hex) AltoBeam (China) Inc.
A4EF15 (base 16) AltoBeam (China) Inc.
B808, Tsinghua Tongfang Hi-Tech Plaza, Haidian
Beijing Beijing 100083
CN

C0-28-0B (hex) Honor Device Co., Ltd.
C0280B (base 16) Honor Device Co., Ltd.
A1701, Block AB, Building 1, Tianan Yungu Phase I, Gangtou Community, Bantian Street
Shenzhen Guangdong 518129
CN

9C-EA-97 (hex) Honor Device Co., Ltd.
9CEA97 (base 16) Honor Device Co., Ltd.

A1701, Block AB, Building 1, Tianan Yungu Phase I, Gangtou Community, Bantian Street
Shenzhen
Guangdong 518129
CN

C8-9B-AD (hex) Honor Device Co., Ltd.
C89BAD (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District,Shenzhen, Guangdong 518040, People's Republic of China
Shenzhen 518040
CN

A0-6C-65 (hex) Texas Instruments
A06C65 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

44-85-02 (hex) Shenzhen SuperElectron Technology Co.,Ltd.
448502 (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

D4-94-00 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D49400 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D4-2C-46 (hex) BUFFALO.INC
D42C46 (base 16) BUFFALO.INC
AKAMONDORI Bld.,30-20,Ohsu
3-chome,Naka-ku
Nagoya Aichi Pref. 460-8315
JP

10-91-A8 (hex) Espressif Inc.
1091A8 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

D4-6C-6D (hex) ARRIS Group, Inc.
D46C6D (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

A0-E7-AE (hex) ARRIS Group, Inc.
A0E7AE (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

80-6A-00 (hex) Cisco Systems, Inc
806A00 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F4-A4-54 (hex) IEEE Registration Authority
F4A454 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

58-FC-C6 (hex) TOZO INC
58FCC6 (base 16) TOZO INC
1546 NW 56TH ST # 743
SEATTLE WA 98107-5209
US

84-15-D3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
8415D3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2
Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

1C-45-86 (hex) Nintendo Co.,Ltd
1C4586 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

18-5B-00 (hex) Nokia
185B00 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

6C-C4-9F (hex) Aruba, a Hewlett Packard Enterprise Company
6CC49F (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054

US

58-9B-4A (hex) DWnet Technologies(Suzhou) Corporation
589B4A (base 16) DWnet Technologies(Suzhou) Corporation
No.8,Tangzhuang Road, Suzhou Industrial Park, Jiangsu, China
Suzhou 21500
CN

F0-AE-66 (hex) Cosonic Intelligent Technologies Co., Ltd.
F0AE66 (base 16) Cosonic Intelligent Technologies Co., Ltd.
Room 506, No.1 Building, No.6, South Industrial Road, Songshan Lake National High-tech Industrial Development Zone
Dongguan
City, Guangdong Province 523808
CN

3C-A9-16 (hex) Huawei Device Co., Ltd.
3CA916 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

20-80-97 (hex) Shenzhen OXO Technology limited
208097 (base 16) Shenzhen OXO Technology limited
Room 1712-2, Building 4, Tian 'an Yungu Industrial Park, Gangtou Community, Bantian Street, Longgang District
Shenzhen Guangdong 518000
CN

7C-16-89 (hex) Sagemcom Broadband SAS
7C1689 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

5C-83-CD (hex) New platforms
5C83CD (base 16) New platforms
Warshavskoe shosse, 35 bld 1
Moscow 117105
RU

50-7C-6F (hex) Intel Corporate
507C6F (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

7C-A6-2A (hex) Hewlett Packard Enterprise
7CA62A (base 16) Hewlett Packard Enterprise

8000
Foothills Blvd.
Roseville CA 95747
US

30-5A-99 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
305A99 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

60-4D-E1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
604DE1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

70-4E-6B (hex) HUAWEI TECHNOLOGIES CO.,LTD
704E6B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

60-3D-29 (hex) HUAWEI TECHNOLOGIES CO.,LTD
603D29 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

54-C4-80 (hex) HUAWEI TECHNOLOGIES CO.,LTD
54C480 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan
Lake Technology Park
Dongguan 523808
CN

F4-57-3E (hex) Fiberhome Telecommunication Technologies Co.,LTD
F4573E (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

A8-61-DF (hex) China Mobile Group Device Co.,Ltd.
A861DF (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

70-C6-DD (hex) New H3C Technologies Co., Ltd
70C6DD (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

C4-1C-07 (hex) Samsung Electronics Co.,Ltd
C41C07 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

40-11-C3 (hex) Samsung Electronics Co.,Ltd
4011C3 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C4-7D-9F (hex) Samsung Electronics Co.,Ltd
C47D9F (base 16) Samsung
Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

38-4B-24 (hex) SIEMENS AG
384B24 (base 16) SIEMENS AG
Oestliche Rheinbrückenstraße 50
Karlsruhe Baden-Württemberg 76181
DE

3C-9E-C7 (hex) SKY UK LIMITED
3C9EC7 (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

28-2A-87 (hex) ITEL MOBILE LIMITED
282A87 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

A8-B5-7C (hex) Roku, Inc
A8B57C (base 16) Roku, Inc
1155 Coleman Ave
San Jose CA 95110
US

24-26-BA (hex) Shenzhen Toptel Technology Co., Ltd.
2426BA (base 16) Shenzhen Toptel Technology Co., Ltd.
Floor 6th, Building C, Guancheng Low-carbon Industrial Park, Guangming District
Shenzhen GuangDong 518107
CN

54-6C-EB (hex) Intel Corporate
546CEB (base 16) Intel Corporate
Lot 8, Jalan
Hi-Tech 2/3
Kulim Kedah 09000
MY

00-93-37 (hex) Intel Corporate
009337 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C0-44-42 (hex) Apple, Inc.
C04442 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D4-68-AA (hex) Apple, Inc.
D468AA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F8-C3-CC (hex) Apple, Inc.
F8C3CC (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-B0-53 (hex) Xiaomi Communications Co Ltd
D8B053 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

6C-F7-84 (hex) Xiaomi Communications Co Ltd
6CF784 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085

CN

10-A5-1D (hex) Intel Corporate
10A51D (base 16) Intel Corporate
Lot
8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

08-8E-90 (hex) Intel Corporate
088E90 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

58-CE-2A (hex) Intel Corporate
58CE2A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

04-2B-58 (hex) Shenzhen Hanzsung Technology Co.,Ltd
042B58 (base 16) Shenzhen Hanzsung Technology Co.,Ltd
8F,Bldg 3,Guole Technopark,Western Huaning Rd,Dalang,Longhua New District,Shenzhen,China
Shenzhen GuangDong 518109
CN

B8-12-DA (hex) LVSWITCHES INC.
B812DA (base 16) LVSWITCHES INC.
F1 building,New light source base Luocun town,Nanhai district
Foshan Guangdong 528000
CN

A0-D7-F3 (hex) Samsung Electronics Co.,Ltd
A0D7F3 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

D8-66-EE (hex) BOXIN COMMUNICATION CO.,LTD.
D866EE (base 16) BOXIN
COMMUNICATION CO.,LTD.
Room 309Block ANew materials business building
Haidian District Beijing 100094
CN

98-DD-60 (hex) Apple, Inc.
98DD60 (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

78-90-A2 (hex) zte corporation
7890A2 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

AC-BC-D9 (hex) Cisco Systems, Inc
ACBCD9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

70-89-F5 (hex) Dongguan Lingjie IOT Co., LTD
7089F5 (base 16) Dongguan Lingjie IOT Co., LTD
A-708, Zhongke innovation Plaza, Songshan Lake, Dongguan City
dongguan Guangdong 523945
CN

94-31-CB (hex) vivo Mobile Communication Co., Ltd.
9431CB (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

B8-20-8E (hex) Panasonic Connect Co., Ltd.
B8208E (base
16) Panasonic Connect Co., Ltd.
4-1-62 Minoshima, Hakata-ku
Fukuoka-shi Fukuoka 812-8531
JP

84-7B-57 (hex) Intel Corporate
847B57 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

E8-F9-D4 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E8F9D4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B0-C7-87 (hex) HUAWEI TECHNOLOGIES CO.,LTD

B0C787 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

0C-4F-9B (hex) HUAWEI TECHNOLOGIES CO.,LTD
0C4F9B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

48-2F-D7 (hex) HUAWEI TECHNOLOGIES CO.,LTD
482FD7 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

24-D8-1E
(hex) MirWifi,Joint-Stock Company
24D81E (base 16) MirWifi,Joint-Stock Company
Krasnobogatyrskaya st, building 6/1
Moscow 107564
RU

90-38-0C (hex) Espressif Inc.
90380C (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

7C-21-4A (hex) Intel Corporate
7C214A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

50-84-92 (hex) Intel Corporate
508492 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

98-80-BB (hex) IEEE Registration Authority
9880BB (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

F0-6C-73 (hex) Nokia
F06C73 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

9C-75-6E (hex) Ajax Systems DMCC
9C756E (base 16) Ajax Systems DMCC
Mazaya Business Avenue
Dubai 04201
AE

B4-3D-08
(hex) GX International BV
B43D08 (base 16) GX International BV
Waldfeuchterbaan 124
Maria Hoop Maria Hoop 6105 BP
NL

64-CB-E9 (hex) LG Innotek
64CBE9 (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

40-B0-A1 (hex) VALCOM CO.,LTD.
40B0A1 (base 16) VALCOM CO.,LTD.
7-25 MINOWA 3-CHOME
TOYONAKA CITY,OSAKA 560-0035
JP

10-3C-59 (hex) zte corporation
103C59 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

60-7D-DD (hex) Shenzhen Shichuangyi Electronics Co.,Ltd
607DDD (base 16) Shenzhen Shichuangyi Electronics Co.,Ltd
East Shangnan Road,Xinqiao Street Bao An District
Shenzhen Guangdong 518101
CN

AC-5E-14 (hex) HUAWEI TECHNOLOGIES CO.,LTD
AC5E14 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

20-DF-73
(hex) HUAWEI TECHNOLOGIES CO.,LTD
20DF73 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

48-12-8F (hex) HUAWEI TECHNOLOGIES CO.,LTD
48128F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

BC-22-28 (hex) D-Link International
BC2228 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

94-7F-1D (hex) Shenzhen Fastrain Technology Co., Ltd.
947F1D (base 16) Shenzhen Fastrain Technology Co., Ltd.
No.3 Baolong 4th Rd., Baolong Industrial Area, Longgang District,
Shenzhen GuangDong 518000
CN

A4-C6-9A (hex) Samsung Electronics Co.,Ltd
A4C69A (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

18-7A-3B (hex) Aruba, a Hewlett Packard Enterprise Company
187A3B
(base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

70-B9-BB (hex) Shenzhen Hankvision Technology CO.,LTD
70B9BB (base 16) Shenzhen Hankvision Technology CO.,LTD
Huolibao Building, Gaoxin North Sixth Road, Nanshan District, Shenzhen
Shenzhen 518000
CN

D4-8A-3B (hex) HUNAN FN-LINK TECHNOLOGY LIMITED
D48A3B (base 16) HUNAN FN-LINK TECHNOLOGY LIMITED
No.8, Litong Road, Liuyan Economic & Tec

Changsha HUNAN 410329
CN

40-06-D5 (hex) Cisco Systems, Inc
4006D5 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

C4-CA-2B (hex) Arista Networks
C4CA2B (base 16) Arista Networks
5453 Great America Parkway
Santa Clara CA 95054
US

40-CA-63 (hex) Seongji Industry Company
40CA63 (base 16) Seongji Industry Company
54-33, Dongtanhana 1-gil
Hwaseong-si Gyeonggi-do 18423
KR

E4-29-3D (hex) Shenzhen Sy-Fiber Optical
Communication Technology.Co.,Ltd
E4293D (base 16) Shenzhen Sy-Fiber Optical Communication Technology.Co.,Ltd
11/F, Manjinghua Yingshuo Commercial Building, Songgang Street, Baoan District
Shenzhen City Guangdong Provicne 518105
CN

9C-56-36 (hex) Huawei Device Co., Ltd.
9C5636 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

8C-B8-7E (hex) Intel Corporate
8CB87E (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

70-1A-B8 (hex) Intel Corporate
701AB8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

5C-DF-89 (hex) Ruckus Wireless
5CDF89 (base 16) Ruckus Wireless

350 West Java Drive
Sunnyvale CA 94089
US

D0-F5-20 (hex) KYOCERA Corporation
D0F520 (base 16) KYOCERA Corporation
30 Hoji
Kitami, Hokkaido 099-1595
JP

70-B6-4F (hex) Guangzhou V-SOLUTION
Electronic Technology Co., Ltd.
70B64F (base 16) Guangzhou V-SOLUTION Electronic Technology Co., Ltd.
Room 601,Originality Building B2, NO.162 Science Avenue,Science Town
Guangzhou Guangdong 510663
CN

B8-94-70 (hex) Calix Inc.
B89470 (base 16) Calix Inc.
2777 Orchard Pkwy
San Jose CA 95131
US

EC-1C-5D (hex) Siemens AG
EC1C5D (base 16) Siemens AG
Werner-von-Siemens-Str. 50
Amberg 92224
DE

D0-3F-27 (hex) Wyze Labs Inc
D03F27 (base 16) Wyze Labs Inc
4030 Lake Washington Boulevard NE
Kirkland WA 98033
US

50-29-7B (hex) China Mobile Group Device Co.,Ltd.
50297B (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

D0-F1-21 (hex) Xi'an LINKSCI Technology Co., Ltd
D0F121 (base 16) Xi'an LINKSCI Technology Co., Ltd
C301, block C, main building, ZTE Industrial Park, No.10, Tangyan South Road, Hi-tech Zone
Xi'an Shanxi
710076
CN

6C-DD-EF (hex) EPCOMM Inc.
6CDDEF (base 16) EPCOMM Inc.
31072 San Antonio Street
Hayward CA 94544
US

B4-20-5B (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
B4205B (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

78-44-4A (hex) Shenzhen Aiwinn information Technology Co., Ltd.
78444A (base 16) Shenzhen Aiwinn information Technology Co., Ltd.
Room 1001, 10th floor, Building G3, TCL International E city, Shuguang community, Xili street, Nanshan district,
Shenzhen GuangDong 518000
CN

08-8E-DC (hex) Apple, Inc.
088EDC (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A8-4A-28 (hex) Apple, Inc.
A84A28 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-BE-1F (hex) Apple, Inc.
D8BE1F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

98-50-2E
(hex) Apple, Inc.
98502E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

58-0A-D4 (hex) Apple, Inc.
580AD4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A4-77-F3 (hex) Apple, Inc.
A477F3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

CC-BC-E3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
CCBCE3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

08-9E-84 (hex) HUAWEI TECHNOLOGIES CO.,LTD
089E84 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

10-82-D7 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
1082D7 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

78-5E-E8 (hex) IEEE
Registration Authority
785EE8 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

9C-40-CD (hex) Synclayer Inc.
9C40CD (base 16) Synclayer Inc.
1-20 Himegaoka
Kani Gifu 5090249
JP

BC-6A-D1 (hex) Xiaomi Communications Co Ltd
BC6AD1 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

08-45-D1 (hex) Cisco Systems, Inc
0845D1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568

US

84-27-B6 (hex) China Mobile IOT Company Limited
8427B6 (base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area
Chongqing Chongqing 401336
CN

10-B7-A8 (hex) CableFree Networks Limited
10B7A8 (base 16) CableFree Networks Limited
G6, Magdalen Centre, The Oxford Science Park, Robert Robinson Avenue
Oxford --- OX4 4GA
GB

08-9B-F1 (hex) eero inc.
089BF1
(base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

30-03-C8 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
3003C8 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

2C-B8-ED (hex) SonicWall
2CB8ED (base 16) SonicWall
1033 McCarthy Blvd
Milpitas CA 95035
US

50-0A-52 (hex) Huiwan Technologies Co. Ltd
500A52 (base 16) Huiwan Technologies Co. Ltd
A603,Wuhan University SZ IER Bldg., 6 Yuexing 2nd Rd., Nanshan Dist., Shenzhen
Shenzhen Guang Dong 518108
CN

D4-93-90 (hex) CLEVO CO.
D49390 (base 16) CLEVO CO.
NO. 129, XINGDE ROAD
New TAIPEI CITY 241
TW

B8-8C-29 (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
B88C29 (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde

Foshan
Guangdong 528311
CN

54-44-A3 (hex) Samsung Electronics Co.,Ltd
5444A3 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

40-9C-A6 (hex) Curvalux
409CA6 (base 16) Curvalux
Electric Works, 3 Concourse Way,
Sheffield S1 2BJ
GB

80-7E-B4 (hex) Shenzhen SuperElectron Technology Co.,Ltd.
807EB4 (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

BC-06-2D (hex) Wacom Co.,Ltd.
BC062D (base 16) Wacom Co.,Ltd.
Sumitomo Fudosan Shinjuku Grand Tower 31F,8-17-1
Nishi-shinjuku,Shinjuku-ku Tokyo 160-6131
JP

3C-93-F4 (hex) HUAWEI TECHNOLOGIES CO.,LTD
3C93F4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

64-33-B5 (hex) IEEE Registration Authority
6433B5
(base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

18-E2-15 (hex) Nokia
18E215 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

8C-4B-14 (hex) Espressif Inc.

8C4B14 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

18-77-58 (hex) Audoo Limited (UK)
187758 (base 16) Audoo Limited (UK)
Unit 23 – Tileyard London, Tileyard Road
London UK N7 9AH
GB

44-D4-54 (hex) Sagemcom Broadband SAS
44D454 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

68-87-C6 (hex) Cisco Systems, Inc
6887C6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

80-24-8F (hex) Cisco Systems, Inc
80248F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

50-4B-9E (hex) Huawei
Device Co., Ltd.
504B9E (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

04-7A-AE (hex) Huawei Device Co., Ltd.
047AAE (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

54-A9-D4 (hex) Minibar Systems
54A9D4 (base 16) Minibar Systems
7340 Westmore Road
Rockville MD 20850
US

00-00-62 (hex) BULL HN INFORMATION SYSTEMS
000062 (base 16) BULL HN INFORMATION SYSTEMS
300 CONCORD ROAD M/S 864A
BILLERICA MA 01821
US

B4-E4-54 (hex) Amazon Technologies Inc.
B4E454 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

0C-43-F9 (hex) Amazon Technologies Inc.
0C43F9 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

D4-94-FB (hex) Continental Automotive Systems Inc.
D494FB (base 16) Continental Automotive Systems Inc.
21440
W. Lake Cook Rd.
Deer Park IL 60010
US

D8-80-83 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
D88083 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

FC-42-65 (hex) Zhejiang Tmall Technology Co., Ltd.
FC4265 (base 16) Zhejiang Tmall Technology Co., Ltd.
Ali Center,No.3331 Keyuan South RD (Shenzhen bay), Nanshan District, Shenzhen Guangdong province
Shenzhen GuangDong 518000
CN

C8-C9-A3 (hex) Espressif Inc.
C8C9A3 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

E4-3B-C9 (hex) HISENSE VISUAL TECHNOLOGY CO.,LTD
E43BC9 (base 16) HISENSE VISUAL TECHNOLOGY CO.,LTD
Qianwangang Road 218
Qingdao Shandong 266510
CN

50-E7-A0 (hex) Renesas Electronics (Penang) Sdn. Bhd.
50E7A0 (base 16) Renesas
Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

90-E8-68 (hex) AzureWave Technology Inc.
90E868 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

4C-50-F1 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
4C50F1 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

E8-95-26 (hex) Luxshare Precision Industry CO., LTD.
E89526 (base 16) Luxshare Precision Industry CO., LTD.
East Jinshang Road, Jinxi Town, Kunshan City
Jiangsu 215324
CN

10-41-21 (hex) TELLESCOM INDUSTRIA E COMERCIO EM TELECOMUNICACAO
104121 (base 16) TELLESCOM INDUSTRIA E COMERCIO EM TELECOMUNICACAO
Av. Buriti, 1900 – Setor B – Distrito Industrial
Manaus Amazonas 69075-000
BR

BC-D7-A5 (hex) Aruba, a Hewlett Packard Enterprise Company
BCD7A5 (base 16) Aruba, a Hewlett
Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

3C-7A-F0 (hex) ITEL MOBILE LIMITED
3C7AF0 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

48-F3-F3 (hex) Baidu Online Network Technology (Beijing) Co., Ltd
48F3F3 (base 16) Baidu Online Network Technology (Beijing) Co., Ltd
Baidu Campus, No.10 Shangdi 10th Street, Haidian District

Beijing 100085
CN

50-41-1C (hex) AMPAK Technology,Inc.
50411C (base 16) AMPAK Technology,Inc.
3F, No.15-1 Zhonghua Road, Hsinchu Industrail Park, Hukou,
Hsinchu Hsinchu,Taiwan R.O.C. 30352
TW

F4-26-79 (hex) Intel Corporate
F42679 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

44-A9-2C (hex) IEEE Registration Authority
44A92C (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

84-AC-16
(hex) Apple, Inc.
84AC16 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

2C-BC-87 (hex) Apple, Inc.
2CBC87 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

68-F0-D0 (hex) SkyBell Technologies Inc.
68F0D0 (base 16) SkyBell Technologies Inc.
1 Jenner
Irvine CA 92618
US

34-B4-72 (hex) Espressif Inc.
34B472 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

F8-0C-58 (hex) Taicang T&W Electronics
F80C58 (base 16) Taicang T&W Electronics

89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

38-61-A5 (hex) Grabango Co
3861A5 (base 16) Grabango Co
2000 Allston Way #60
Berkeley CA 94701
US

78-D3-ED (hex) NORMA
78D3ED (base 16) NORMA
Achasan-ro 7na-gil, Seongdong-Gu
Seoul 04795
KR

8C-1E-D9 (hex) Beijing Unigroup Tsingteng Microsystem Co., LTD.
8C1ED9
(base 16) Beijing Unigroup Tsingteng Microsystem Co., LTD.
06F, West District, block D, Tsinghua Tongfang science and Technology Plaza, 1 Wangzhuang Road, Haidian District,
Beijing Beijing 1000083
CN

D4-73-50 (hex) DBG Commnunications Technology Co., Ltd.
D47350 (base 16) DBG Commnunications Technology Co., Ltd.
Building A, No. 5 (DBG Factory), Yongda Road, Xiangshui River,West District of Daya Bay
Huizhou Guangdong 516083
CN

70-DA-17 (hex) Austrian Audio GmbH
70DA17 (base 16) Austrian Audio GmbH
Eitnergasse 15
Vienna Vienna 1230
AT

FC-A8-9B (hex) Texas Instruments
FCA89B (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

98-F0-7B (hex) Texas Instruments
98F07B (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

50-78-B0 (hex) Huawei Device Co., Ltd.
5078B0 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan
Guangdong 523808
CN

E4-07-2B (hex) Huawei Device Co., Ltd.
E4072B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

B0-37-95 (hex) LG Electronics
B03795 (base 16) LG Electronics
222 LG-ro, JINWI-MYEON
Pyeongtaek-si Gyeonggi-do 451-713
KR

A4-FF-95 (hex) Nokia
A4FF95 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

24-46-E4 (hex) HUAWEI TECHNOLOGIES CO.,LTD
2446E4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F4-46-37 (hex) Intel Corporate
F44637 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

0C-71-8C (hex) TCT mobile ltd
0C718C (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

24-08-5D (hex) Continental Aftermarket & Services GmbH
24085D
(base 16) Continental Aftermarket & Services GmbH
Sodener Strasse 9
Schwalbach am Taunus Hessen 65824

DE

38-A6-59 (hex) Sagemcom Broadband SAS
38A659 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

78-13-05 (hex) IEEE Registration Authority
781305 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

68-1B-EF (hex) HUAWEI TECHNOLOGIES CO.,LTD
681BEF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

FC-58-DF (hex) Interphone Service
FC58DF (base 16) Interphone Service
Inwestorow, 8
Mielec Select a state or province 39-300
PL

98-10-82 (hex) Nsolution Co., Ltd.
981082 (base 16) Nsolution Co., Ltd.
1001-1, 387, Simin-daero, Dongan-gu
Anyang-si Gyeonggi-do 14057
KR

A8-48-FA (hex) Espressif Inc.
A848FA
(base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

50-5D-7A (hex) zte corporation
505D7A (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

E4-DC-5F (hex) Cofractal, Inc.
E4DC5F (base 16) Cofractal, Inc.
209 E Java Dr. #61593

Sunnyvale CA 94089
US

08-1C-6E (hex) Xiaomi Communications Co Ltd
081C6E (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

CC-89-6C (hex) GN Hearing A/S
CC896C (base 16) GN Hearing A/S
Lautrupbjerg 7
Ballerup 2750
DK

64-50-D6 (hex) Liquidtool Systems
6450D6 (base 16) Liquidtool Systems
Winterseistrasse 22
Hasle-Rüegsau Bern 3415
CH

50-81-40 (hex) HP Inc.
508140 (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

4C-AB-4F
(hex) Apple, Inc.
4CAB4F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

9C-58-3C (hex) Apple, Inc.
9C583C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C4-12-34 (hex) Apple, Inc.
C41234 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

3C-A6-F6 (hex) Apple, Inc.
3CA6F6 (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

34-FE-9E (hex) Fujitsu Limited
34FE9E (base 16) Fujitsu Limited
4-1-1 Kamikodanaka, Nakahara-ku
Kawasaki-shi Kanagawa 211-8588
JP

38-45-3B (hex) Ruckus Wireless
38453B (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

78-06-C9 (hex) Huawei Device Co., Ltd.
7806C9 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E8-A6-CA (hex) Huawei Device Co., Ltd.
E8A6CA (base 16) Huawei Device Co., Ltd.
No.2
of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

CC-FA-66 (hex) Huawei Device Co., Ltd.
CCFA66 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

68-96-6A (hex) OHSUNG
68966A (base 16) OHSUNG
335-4,SANHODAERO,GUMI,GYEONG BUK,KOREA
GUMI GYEONG BUK 730-030
KR

90-2E-16 (hex) LCFC(HeFei) Electronics Technology co., ltd
902E16 (base 16) LCFC(HeFei) Electronics Technology co., ltd
YunGu Road 3188-1
Hefei Anhui 230000
CN

00-09-01 (hex) Shenzhen Shixuntong Information & Technoligy Co

000901 (base 16) Shenzhen Shixuntong Information & Technoligy Co
Room 403,617 Bldg;Bagua 1 Road ,Shenzhen
Shenzhen Guangdong 518029
CN

34-24-3E (hex) zte corporation
34243E (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

98-ED-7E (hex) eero inc.
98ED7E
(base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

2C-48-81 (hex) vivo Mobile Communication Co., Ltd.
2C4881 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

60-26-EF (hex) Aruba, a Hewlett Packard Enterprise Company
6026EF (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

E4-0C-FD (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
E40CFD (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

58-D6-97 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
58D697 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

54-37-BB (hex) Taicang T&W Electronics
5437BB (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

60-F8-F2
(hex) Synaptec
60F8F2 (base 16) Synaptec
204 George Street
Glasgow G1 1XW
GB

F4-63-E7 (hex) Nanjing Maxon O.E. Tech. Co., LTD
F463E7 (base 16) Nanjing Maxon O.E. Tech. Co., LTD
6/F, Building A3, Zidong International Creative Park, Zidong Road, Qixia District, Nanjing
NAN JING JIANG SU 210000
CN

88-AE-DD (hex) EliteGroup Computer Systems Co., LTD
88AEDD (base 16) EliteGroup Computer Systems Co., LTD
No. 239, Sec. 2, Ti ding Blvd.
Taipei City 11493
TW

48-22-18 (hex) Shenzhen Yipingfang Network Technology Co., Ltd.
482218 (base 16) Shenzhen Yipingfang Network Technology Co., Ltd.
21 / F, Kangjia R & D building, No.28, Keji South 12th Road, Nanshan District, Shenzhen City, Guangdong Province, China
Shenzhen Nanshan District 518000
CN

AC-74-B1 (hex) Intel Corporate
AC74B1 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

F4-60-77
(hex) Texas Instruments
F46077 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

1C-3C-D4 (hex) HUAWEI TECHNOLOGIES CO.,LTD
1C3CD4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F4-E4-51 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F4E451 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park

Dongguan 523808
CN

A0-E7-0B (hex) Intel Corporate
A0E70B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

04-EE-EE (hex) Laplace System Co., Ltd.
04EEEE (base 16) Laplace System Co., Ltd.
1-245 Kyo-machi
Fushimi, Kyoto Kyoto 6128083
JP

30-A1-76 (hex) Fiberhome Telecommunication Technologies Co.,LTD
30A176 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

6C-10-8B (hex) WeLink
Communications
6C108B (base 16) WeLink Communications
4186 N Red Maple Court
Lehi UT 84043
US

7C-85-30 (hex) Nokia
7C8530 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

C0-3C-04 (hex) Sagemcom Broadband SAS
C03C04 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

A4-D7-3C (hex) Seiko Epson Corporation
A4D73C (base 16) Seiko Epson Corporation
2070 Kotobuki Koaka
Matsumoto-shi Nagano-ken 399-8702
JP

00-08-08 (hex) PPT Vision, Inc.
000808 (base 16) PPT Vision, Inc.

12988 Valley View Rd.
Eden Prairie MN 55344
US

F8-8E-A1 (hex) Edgecore Networks Corporation
F88EA1 (base 16) Edgecore Networks Corporation
1 Creation RD 3.
Hsinchu 30077
TW

14-89-19 (hex) 2bps
148919 (base 16) 2bps
#1502 , T-dong, Pungrim I-want, 170, Seohyeon-ro
Seongnam-si Gyeonggi-do 13590
KR

58-FD-5D (hex) Hangzhou
Xinyun technology Co., Ltd.
58FD5D (base 16) Hangzhou Xinyun technology Co., Ltd.
Room 803, Block 8, Singapore Science & Technology Park
Hangzhou Zhejiang 310018
CN

A4-55-90 (hex) Xiaomi Communications Co Ltd
A45590 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

08-01-0F (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
08010F (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12,TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

04-71-53 (hex) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
047153 (base 16) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
NO.8 Tangzhuang Road,Suzhou Industrial Park,Su ZhouCity,JiangSu Province,China
Suzhou 215021
CN

40-C4-8C (hex) N-iTUS CO.,LTD.
40C48C (base 16) N-iTUS CO.,LTD.
NiTUS 85, Deokcheon-ro
Anyang-si Gyeonggi-do,
Korea 14086
KR

4C-71-67 (hex) PoLabs d.o.o.
4C7167 (base 16) PoLabs d.o.o.
Volavlje 30
Ljubljana 1000
SI

48-E7-DA (hex) AzureWave Technology Inc.
48E7DA (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

F8-BA-E6 (hex) Nokia
F8BAE6 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

BC-EC-A0 (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
BCECA0 (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO. 25, THE 3RD Street KUNSHAN EXPORT PROCESSING ZONE
KUNSHAN SUZHOU 215300
CN

24-A7-99 (hex) Huawei Device Co., Ltd.
24A799 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

7C-3E-74 (hex) Huawei Device Co., Ltd.
7C3E74 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

18-52-07 (hex) Sichuan Tianyi
Comheart Telecom Co.,LTD
185207 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12, TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

C4-23-60 (hex) Intel Corporate
C42360 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

10-3D-1C (hex) Intel Corporate
103D1C (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

38-87-D5 (hex) Intel Corporate
3887D5 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

1C-D1-07 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
1CD107 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

DC-21-5C (hex) Intel Corporate
DC215C (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

9C-1C-37
(hex) AltoBeam (China) Inc.
9C1C37 (base 16) AltoBeam (China) Inc.
B808, Tsinghua Tongfang Hi-Tech Plaza, Haidian
Beijing Beijing 100083
CN

2C-08-23 (hex) Sercomm France Sarl
2C0823 (base 16) Sercomm France Sarl
2/4 Rue Maurice Hartmann 92370 Issy Les Moulineaux France
Moulineaux 92370
FR

30-8E-7A (hex) Shenzhen iComm Semiconductor CO.,LTD
308E7A (base 16) Shenzhen iComm Semiconductor CO.,LTD
Room 601,Block B ,Digital Building,Garden City
Shenzhen No.1079 Nanhai Road,Nanshan District 518067
CN

B8-A3-77 (hex) Cisco Systems, Inc
B8A377 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568

US

E4-4E-2D (hex) Cisco Systems, Inc
E44E2D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

98-42-65 (hex) Sagemcom Broadband SAS
984265 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts
de seine 92848
FR

80-65-59 (hex) EM Microelectronic
806559 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

D0-47-C1 (hex) Elma Electronic AG
D047C1 (base 16) Elma Electronic AG
Hofstrasse 93
Wetzikon Zuerich 8620
CH

E0-C6-3C (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
E0C63C (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12, TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

C0-CC-42 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
C0CC42 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

78-D9-E9 (hex) MOMENTUM IOT
78D9E9 (base 16) MOMENTUM IOT
100 W. BROADWAY, STE. 500
LONG BEACH CA 90802
US

C8-7B-23 (hex) Bose Corporation
C87B23 (base 16) Bose Corporation
The Mountain

Framingham
MA 01701-9168
US

8C-19-B5 (hex) Arcadyan Corporation
8C19B5 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

D8-9A-C1 (hex) Nokia
D89AC1 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

F0-B1-1D (hex) Nokia
F0B11D (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

7C-D9-F4 (hex) UAB Teltonika Telematics
7CD9F4 (base 16) UAB Teltonika Telematics
Saltoniskiu str. 9B-1
Vilnius LT-08105
LT

F8-97-53 (hex) Huawei Device Co., Ltd.
F89753 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

58-94-AE (hex) Huawei Device Co., Ltd.
5894AE (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

B0-3A-CE (hex) Huawei Device Co., Ltd.
B03ACE (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng
Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

34-AB-95 (hex) Espressif Inc.

34AB95 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

C4-91-CF (hex) Luxul
C491CF (base 16) Luxul
12884 Frontrunner Blvd, Suite 201
Draper UT 84020
US

84-AB-26 (hex) Tiinlab Corporation
84AB26 (base 16) Tiinlab Corporation
35F,Tower A,Tanglang City,3333 Liuxian Avenue,Nanshan District
Shenzhen Guangdong 518000
CN

58-35-6B (hex) TECNO MOBILE LIMITED
58356B (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

F8-4C-DA (hex) HUAWEI TECHNOLOGIES CO.,LTD
F84CDA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A4-D7-95 (hex) Wingtech
Mobile Communications Co.,Ltd
A4D795 (base 16) Wingtech Mobile Communications Co.,Ltd
No.777,Yazhong Road,Nanhu District
Jiaxing Zhejiang 314001
CN

A4-05-6E (hex) Tiinlab Corporation
A4056E (base 16) Tiinlab Corporation
35F,Tower A,Tanglang City,3333 Liuxian Avenue,Nanshan District
Shenzhen Guangdong 518000
CN

00-04-7D (hex) Motorola Solutions Inc.
00047D (base 16) Motorola Solutions Inc.
500 W Monroe Street, Ste 4400
Chicago IL 60661-3781
US

A8-93-4A (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
A8934A (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

FC-4E-A4 (hex) Apple, Inc.
FC4EA4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F4-BE-EC (hex) Apple, Inc.
F4BEEC (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

54-E6-1B (hex) Apple,
Inc.
54E61B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

64-64-4A (hex) Beijing Xiaomi Mobile Software Co., Ltd
64644A (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

E8-9E-0C (hex) MAX8USA DISTRIBUTORS INC.
E89E0C (base 16) MAX8USA DISTRIBUTORS INC.
4757 NW 72ND AVENUE
MIAMI FL 33166
US

64-80-8B (hex) VG Controls, Inc.
64808B (base 16) VG Controls, Inc.
11 Butternut Drive
Vernon NJ 07462
US

20-89-6F (hex) Fiberhome Telecommunication Technologies Co.,LTD
20896F (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074

CN

F4-FB-B8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F4FBB8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-04-AD
(hex) Malibu Networks
0004AD (base 16) Malibu Networks
26637 Agoura Rd.
Calabasas CA 91302
US

CC-68-B6 (hex) TP-Link Corporation Limited
CC68B6 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

14-DD-9C (hex) vivo Mobile Communication Co., Ltd.
14DD9C (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

CC-33-31 (hex) Texas Instruments
CC3331 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

A4-39-B6 (hex) SHENZHEN PEIZHE MICROELECTRONICS CO .LTD
A439B6 (base 16) SHENZHEN PEIZHE MICROELECTRONICS CO .LTD
1110 Nanshan Street, Nanshan District, Shenzhen, China Petroleum Building 2012
Shenzhen 518000
CN

BC-FF-4D (hex) Espressif Inc.
BCFF4D (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai
Shanghai 201203
CN

C4-5B-BE (hex) Espressif Inc.
C45BBE (base 16) Espressif Inc.

Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

00-26-18 (hex) ASUSTek COMPUTER INC.
002618 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd.,Peitou,Taipei 112 ,Taiwan
Taipei Taiwan 112
TW

A0-70-B7 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A070B7 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

78-B5-54 (hex) Huawei Device Co., Ltd.
78B554 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

68-9E-6A (hex) Huawei Device Co., Ltd.
689E6A (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

28-2B-96 (hex) Huawei Device Co., Ltd.
282B96 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road,
Songshan Lake Zone
Dongguan Guangdong 523808
CN

1C-D1-E0 (hex) Cisco Systems, Inc
1CD1E0 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E8-FD-35 (hex) Huawei Device Co., Ltd.
E8FD35 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

EC-C5-D2 (hex) Huawei Device Co., Ltd.

ECC5D2 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

24-45-6B (hex) Huawei Device Co., Ltd.
24456B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

48-38-71 (hex) Huawei Device Co., Ltd.
483871 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

44-BD-DE (hex) BHTC GmbH
44BDDE (base 16) BHTC GmbH
Hansastrasse 40
Lippstadt 59557
DE

8C-2A-8E
(hex) DongGuan Ramaxel Memory Technology
8C2A8E (base 16) DongGuan Ramaxel Memory Technology
No.32, Industrial East Road,Innovation Park, High-tech Industrial Development Zone, Songshan Lake, Dongguan City, Guangdong Province,China
DongGuan Guangdong 523808
CN

80-07-1B (hex) VSOLUTION TELECOMMUNICATION TECHNOLOGY CO.,LTD.
80071B (base 16) VSOLUTION TELECOMMUNICATION TECHNOLOGY CO.,LTD.
Room 601,Originality Building B2, NO.162 Science Avenue,Science Town
Guangzhou Guangdong 510663
CN

B8-14-DB (hex) OHSUNG
B814DB (base 16) OHSUNG
335-4,SANHODAERO,GUMI,GYEONG BUK,KOREA
GUMI GYEONG BUK 730-030
KR

FC-13-F0 (hex) Bouffalo Lab (Nanjing) Co., Ltd.
FC13F0 (base 16) Bouffalo Lab (Nanjing) Co., Ltd.
5F, Gongxiang Space, No.100 Tuanjie Road, Nanjing, China
Nanjing Jiangsu 211800
CN

FC-9C-98 (hex) Arlo Technology
FC9C98 (base 16) Arlo Technology
3030 Orchard Parkway
San Jose CA 95134
US

B4-60-8C
(hex) Fiberhome Telecommunication Technologies Co.,LTD
B4608C (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

40-44-FD (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
4044FD (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

64-6E-E0 (hex) Intel Corporate
646EE0 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

04-56-E5 (hex) Intel Corporate
0456E5 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

88-46-04 (hex) Xiaomi Communications Co Ltd
884604 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

F4-02-23 (hex) PAX Computer Technology(Shenzhen) Ltd.
F40223 (base
16) PAX Computer Technology(Shenzhen) Ltd.
4/F, No.3 Building, Software Park, Second Central Science-Tech Road, High-Tech
Shenzhen GuangDong 518057
CN

64-79-F0 (hex) Intel Corporate
6479F0 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3

Kulim Kedah 09000
MY

08-10-86 (hex) NEC Platforms, Ltd.
081086 (base 16) NEC Platforms, Ltd.
2-3 Kandatsukasamachi
Chiyodaku Tokyo 101-8532
JP

78-65-3B (hex) Shaoxing Ourten Electronics Co., Ltd.
78653B (base 16) Shaoxing Ourten Electronics Co., Ltd.
3rd Floor # 7, No. 1732 Yanhua industrial park West Renmin Road,Shangyu
Shaoxing Zhejiang 312000
CN

E0-E6-56 (hex) Nethesis srl
E0E656 (base 16) Nethesis srl
strada degli olmi 12
Pesaro Pesaro e Urbino 61122
IT

84-1E-A3 (hex) Sagemcom Broadband SAS
841EA3 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

1C-6E-E6 (hex) NHNETWORKS
1C6EE6
(base 16) NHNETWORKS
54,Chemdanyeonsin-ro 30beon-gil,Buk-gu
Gwangju 61080
KR

08-F6-06 (hex) zte corporation
08F606 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

84-D6-08 (hex) Wingtech Mobile Communications Co., Ltd.
84D608 (base 16) Wingtech Mobile Communications Co., Ltd.
No.777,Yazhong Road,Nanhu District,
Jiaxing Zhejiang 314006
CN

34-68-93 (hex) Tecnovideo Srl
346893 (base 16) Tecnovideo Srl

Via A. De Gasperi, 3
Villaverla Vicenza 36030
IT

00-20-C1 (hex) SAXA, Inc.
0020C1 (base 16) SAXA, Inc.
NBF Platinum Tower 1-17-3 Shirokane
Tokyo 108-8050
JP

4C-F2-02 (hex) Xiaomi Communications Co Ltd
4CF202 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

24-69-68 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
246968
(base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

FC-A9-DC (hex) Renesas Electronics (Penang) Sdn. Bhd.
FCA9DC (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

FC-58-4A (hex) xiamenshi c-chip technology co., ltd
FC584A (base 16) xiamenshi c-chip technology co., ltd
Baoyuan Road
Shenzhen City Guangdong Province 518101
CN

28-D3-EA (hex) Huawei Device Co., Ltd.
28D3EA (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

A8-F2-66 (hex) Huawei Device Co., Ltd.
A8F266 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

CC-9C-3E (hex) Cisco Meraki

CC9C3E (base 16) Cisco Meraki
500 Terry
A. Francois Blvd
San Francisco 94158
US

48-29-E4 (hex) AO
4829E4 (base 16) AO
Prospekt Mira
Moscow 129223
RU

84-26-7A (hex) GUANGDONG TAIDE ZHILIAN TECHNOLOGY CO.,LTD
84267A (base 16) GUANGDONG TAIDE ZHILIAN TECHNOLOGY CO.,LTD
Taide Technology Park,Jinfenghuang Industrial District, Fenggang Town,
Dongguan GUANGDONG 523000
CN

6C-47-60 (hex) Sunitec Enterprise Co.,Ltd
6C4760 (base 16) Sunitec Enterprise Co.,Ltd
3F.,No.98-1,Mincyuan Rd.Sindian City
Taipei County 231 231141
CN

3C-7A-AA (hex) China Dragon Technology Limited
3C7AAA (base 16) China Dragon Technology Limited
B4 Bldg.Haoshan 1st Industry Park,
Shenzhen Guangdong 518104
CN

84-FD-27 (hex) Silicon Laboratories
84FD27 (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin 78701
US

90-23-B4 (hex) New H3C Technologies Co., Ltd
9023B4 (base 16) New H3C Technologies Co., Ltd
466
Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

88-2A-5E (hex) New H3C Technologies Co., Ltd
882A5E (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

18-32-19 (hex) EM Microelectronic
183219 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

3C-9B-C6 (hex) Huawei Device Co., Ltd.
3C9BC6 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

00-36-BE (hex) Northwest Towers
0036BE (base 16) Northwest Towers
12119 NE 99th St, Suite 2000
Vancouver WA 98682
US

A4-5E-5A (hex) ACTIVIO Inc.
A45E5A (base 16) ACTIVIO Inc.
Takeuchi Lorie Bldg. Room 503, 1-34-12, Takadanobaba
Shinjuku-ku Tokyo 1690075
JP

7C-50-79 (hex) Intel Corporate
7C5079 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

80-38-FB
(hex) Intel Corporate
8038FB (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

64-26-56 (hex) Shenzhen Fanweitai Technology Service Co.,Ltd
642656 (base 16) Shenzhen Fanweitai Technology Service Co.,Ltd
Room 408, 4 / F, Jinqi Zhigu Building, 1 Tangling Road, Nanshan District, Shenzhen
Shenzhen 518000
CN

54-09-10 (hex) Apple, Inc.
540910 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

9C-FC-28 (hex) Apple, Inc.
9CFC28 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B4-85-E1 (hex) Apple, Inc.
B485E1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

0C-19-F8 (hex) Apple, Inc.
0C19F8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

50-1F-C6 (hex) Apple, Inc.
501FC6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

CC-69-FA (hex) Apple,
Inc.
CC69FA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

10-CE-E9 (hex) Apple, Inc.
10CEE9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

74-9A-C0 (hex) Cachengo, Inc.
749AC0 (base 16) Cachengo, Inc.
9575 Hwy 22
Huntingdon TN 38344
US

34-58-7C (hex) MIRAE INFORMATION TECHNOLOGY CO., LTD.
34587C (base 16) MIRAE INFORMATION TECHNOLOGY CO., LTD.
GYEONGGI-DO

SEONGNAM-SI JUNGWON-GU 13376
KR

08-B4-B1 (hex) Google, Inc.
08B4B1 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

A8-77-E5 (hex) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
A877E5 (base 16) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
Unit East Block22-24/F,Skyworth semiconductor design Bldg., Gaoxin Ave.4.S.,Nanshan District,Shenzhen,China
SHENZHEN GUANGDONG 518057
CN

10-A4-DA (hex) HUAWEI TECHNOLOGIES CO.,LTD
10A4DA (base 16) HUAWEI TECHNOLOGIES
CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

38-20-28 (hex) HUAWEI TECHNOLOGIES CO.,LTD
382028 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E4-77-27 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E47727 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

5C-56-A4 (hex) Wanan Hongsheng Electronic Co.Ltd
5C56A4 (base 16) Wanan Hongsheng Electronic Co.Ltd
1st section of industrial pack,Wan'An County,Ji'An City,jiangxi province
Wanan China/jiangxi 343800
CN

10-51-07 (hex) Intel Corporate
105107 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

AC-74-C4 (hex) Maytronics Ltd.
AC74C4 (base 16) Maytronics Ltd.

Kibbutz Yizrael
Kibbutz Yizrael 1935000
IL

F4-B3-01 (hex) Intel
Corporate
F4B301 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

E8-D2-FF (hex) Sagemcom Broadband SAS
E8D2FF (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

0C-96-CD (hex) MERCURY CORPORATION
0C96CD (base 16) MERCURY CORPORATION
90, Gajaeul-ro, Seo-gu
INCHEON 22830
KR

A0-3B-01 (hex) Kyung In Electronics
A03B01 (base 16) Kyung In Electronics
#1411, Byucksan Digital Valley 2, 184, Gasan Digital2-ro, Geumcheon-gu
Seoul 08501
KR

14-5E-69 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
145E69 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

A0-A3-F0 (hex) D-Link International
A0A3F0 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

84-65-69
(hex) New H3C Technologies Co., Ltd
846569 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

34-F7-16 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
34F716 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

AC-82-47 (hex) Intel Corporate
AC8247 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

F0-25-8E (hex) HUAWEI TECHNOLOGIES CO.,LTD
F0258E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

9C-74-6F (hex) HUAWEI TECHNOLOGIES CO.,LTD
9C746F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E0-6C-4E (hex) Shenzhen TINNO Mobile Technology Corp.
E06C4E (base
16) Shenzhen TINNO Mobile Technology Corp.
Building, No.33, Xiandong Rd, Xili
Nanshan District, Shenzhen PRC 518053
CN

50-55-8D (hex) China Mobile IOT Company Limited
50558D (base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area
Chongqing Chongqing 401336
CN

28-1B-04 (hex) Zalliant LLC
281B04 (base 16) Zalliant LLC
425 Truax Road
Amsterdam NY 12010
US

18-CE-94 (hex) Samsung Electronics Co.,Ltd
18CE94 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

78-37-16 (hex) Samsung Electronics Co.,Ltd
783716 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

64-E0-03 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
64E003 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

E8-A0-CD (hex) Nintendo Co.,Ltd
E8A0CD
(base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

9C-82-3F (hex) Huawei Device Co., Ltd.
9C823F (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

54-F6-07 (hex) Huawei Device Co., Ltd.
54F607 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

7C-52-59 (hex) Sichuan Jiuzhou Electronic Technology Co., Ltd.
7C5259 (base 16) Sichuan Jiuzhou Electronic Technology Co., Ltd.
No. 259, Jiuzhou Road
Mianyang City Sichuan Province 621000
CN

C4-E2-87 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C4E287 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

48-4C-29 (hex) HUAWEI TECHNOLOGIES CO.,LTD
484C29 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan

Lake Technology Park
Dongguan 523808
CN

04-5F-B9 (hex) Cisco Systems, Inc
045FB9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

10-2F-A3 (hex) Shenzhen Uvision-tech Technology Co.Ltd
102FA3 (base 16) Shenzhen Uvision-tech Technology Co.Ltd
shenzhen longhua Street
shenzhen GuangDong 518000
CN

C4-D4-38 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C4D438 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

14-3F-A6 (hex) Sony Home Entertainment&Sound Products Inc
143FA6 (base 16) Sony Home Entertainment&Sound Products Inc
Sony City Osaki 2-10-1 Osaki Shinagawa-ku
Tokyo Japan 141-8610
JP

74-8B-29 (hex) Micobiomed
748B29 (base 16) Micobiomed
54 Changeop-ro
54 Changeop-ro Gyeonggi-do 13449
KR

E8-F4-08 (hex) Intel Corporate
E8F408 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3

Kulim Kedah 09000
MY

44-D4-53 (hex) Sagemcom Broadband SAS
44D453 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

DC-CD-74 (hex) Japan E.M.Solutions Co., Ltd.

DCCD74 (base 16) Japan E.M.Solutions Co., Ltd.
35 Saho
Kato 673-1447
JP

04-49-5D (hex) Huawei Device Co., Ltd.
04495D (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

F0-FE-E7 (hex) Huawei Device Co., Ltd.
F0FEE7 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

54-21-1D (hex) Huawei Device Co., Ltd.
54211D (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

DC-A1-20 (hex) Nokia
DCA120 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

50-52-3B (hex) Nokia
50523B
(base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

58-B0-FE (hex) Team EPS GmbH
58B0FE (base 16) Team EPS GmbH
Am Herdicksbach 2 - Halle 9
Waltrop 45731
DE

90-C7-92 (hex) ARRIS Group, Inc.
90C792 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

5C-6F-69 (hex) Broadcom Limited
5C6F69 (base 16) Broadcom Limited
15191 Alton Parkway
Irvine CA 92618
US

D0-12-CB (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
D012CB (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

20-FF-36 (hex) IFLYTEK CO.,LTD.
20FF36 (base 16) IFLYTEK CO.,LTD.
National Intelligent Speech High-tech Industrialization Base, No. 666, Wangjiang Road West,
Hefei An hui 230088
CN

24-06-AA (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
2406AA (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS
CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

8C-AE-49 (hex) IEEE Registration Authority
8CAE49 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

24-64-9F (hex) Huawei Device Co., Ltd.
24649F (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

0C-17-73 (hex) Huawei Device Co., Ltd.
0C1773 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E8-1E-92 (hex) Huawei Device Co., Ltd.
E81E92 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

88-8E-68 (hex) Huawei Device Co., Ltd.
888E68 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

80-74-84 (hex) ALL Winner (Hong Kong) Limited
807484 (base 16) ALL
Winner (Hong Kong) Limited
Unit No.1301,13F,Sunbeam Plaza,1155 Canton Road,Mongkok,Kowloon,Hong Kong
Hong Kong 999077
CN

88-23-8C (hex) Fiberhome Telecommunication Technologies Co.,LTD
88238C (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

78-CF-2F (hex) HUAWEI TECHNOLOGIES CO.,LTD
78CF2F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-3B-5C (hex) HUAWEI TECHNOLOGIES CO.,LTD
A83B5C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-CC-6F (hex) HMD Global Oy
A8CC6F (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

98-9A-B9 (hex) zte corporation
989AB9 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

4C-20-B8
(hex) Apple, Inc.
4C20B8 (base 16) Apple, Inc.
1 Infinite Loop

Cupertino CA 95014
US

00-31-92 (hex) TP-Link Corporation Limited
003192 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

84-30-95 (hex) Hon Hai Precision IND.CO.,LTD
843095 (base 16) Hon Hai Precision IND.CO.,LTD
No. 66 Chung Shan Road TU-Cheng Industrial district TAIPEI TAIWAN
TAIPEI TAIWAN 33859
CN

00-8A-55 (hex) Huawei Device Co., Ltd.
008A55 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

64-A2-8A (hex) Huawei Device Co., Ltd.
64A28A (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

AC-47-1B (hex) Huawei Device Co., Ltd.
AC471B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan
Lake Zone
Dongguan Guangdong 523808
CN

A4-CC-B9 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
A4CCB9 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

6C-B8-81 (hex) zte corporation
6CB881 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

EC-0D-E4 (hex) Amazon Technologies Inc.
EC0DE4 (base 16) Amazon Technologies Inc.

P.O Box 8102
Reno NV 89507
US

B0-45-30 (hex) SKY UK LIMITED
B04530 (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

6C-A0-B4 (hex) SKY UK LIMITED
6CA0B4 (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

14-88-E6 (hex) Apple, Inc.
1488E6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B4-56-E3 (hex) Apple,
Inc.
B456E3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

BC-5B-D5 (hex) ARRIS Group, Inc.
BC5BD5 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

24-11-45 (hex) Xiaomi Communications Co Ltd
241145 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

78-95-EB (hex) ITEL MOBILE LIMITED
7895EB (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

B0-BB-E5 (hex) Sagemcom Broadband SAS

B0BBE5 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

8C-FD-DE (hex) Sagemcom Broadband SAS
8CFDDE (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

1C-9F-4E (hex) COOSEA
GROUP (HK) COMPANY LIMITED
1C9F4E (base 16) COOSEA GROUP (HK) COMPANY LIMITED
UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI
KL 999077
HK

A4-68-BC (hex) Oakley Inc.
A468BC (base 16) Oakley Inc.
1 Icon
Foothill Ranch CA 92610
US

B0-C5-3C (hex) Cisco Systems, Inc
B0C53C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

EC-CE-13 (hex) Cisco Systems, Inc
ECCE13 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

08-65-F0 (hex) JM Zengge Co., Ltd
0865F0 (base 16) JM Zengge Co., Ltd
5/F Torch building, Jinou Road#288, Jianghai District
Jiangmen Guangdong 529080
CN

3C-61-05 (hex) Espressif Inc.
3C6105 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

60-7E-A4 (hex) Shanghai Imilab Technology Co.Ltd
607EA4 (base 16) Shanghai Imilab Technology
Co.Ltd
29F, A Tower, New Caohejing International Business Center, Guiping Road, Xuhui District
Shanghai Shanghai 200000
CN

48-D8-90 (hex) FN-LINK TECHNOLOGY LIMITED
48D890 (base 16) FN-LINK TECHNOLOGY LIMITED
A Building,HuiXin industial park,No 31, YongHe road, Fuyong town, Bao'an District
SHENZHEN GUANGDONG 518100
CN

78-1F-11 (hex) RAB Lighting
781F11 (base 16) RAB Lighting
Northvale (NJ) 141 Legrand Ave. Northvale, NJ 07647
Northvale NJ 07647
US

14-AB-02 (hex) HUAWEI TECHNOLOGIES CO.,LTD
14AB02 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-18-E9 (hex) Samsung Electronics Co.,Ltd
C418E9 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

1C-E5-7F (hex) Samsung Electronics Co.,Ltd
1CE57F (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk
730-350
KR

08-55-31 (hex) Routerboard.com
085531 (base 16) Routerboard.com
Mikrotikls SIA
Riga Riga LV1009
LV

8C-55-BB (hex) Songwoo Information & Technology Co., Ltd
8C55BB (base 16) Songwoo Information & Technology Co., Ltd
24-9, Jinju-daero 404beon-gil, Jinju-si, Gyeongsangnam-do, Korea
Jinju Gyeongsangnam-do 52826

KR

7C-8F-DE (hex) DWnet Technologies(Suzhou) Corporation
7C8FDE (base 16) DWnet Technologies(Suzhou) Corporation
No.8,Tangzhuang Road, Suzhou Industrial Park, Jiangsu, China
Suzhou 21500
CN

08-38-E6 (hex) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
0838E6 (base 16) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
No.19, Gaoxin 4th Road, Wuhan East Lake High-tech Zone, Wuhan
Wuhan Hubei 430000
CN

E8-C2-DD (hex) Infinix mobility limited
E8C2DD (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR
CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

C4-1C-9C (hex) JiQiDao
C41C9C (base 16) JiQiDao
No.19, SuYuan Avenue, Jiangning District
NanJing Jiangsu 210000
CN

84-71-27 (hex) Silicon Laboratories
847127 (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

98-F1-81 (hex) New H3C Technologies Co., Ltd
98F181 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

F0-F7-E7 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F0F7E7 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-04-2B (hex) IT Access Co., Ltd.
00042B (base 16) IT Access Co., Ltd.
3-17-6, Shinyokohama, Kouhoku-ku

Yokohama-shi Kanagawa 222-8545
JP

40-A9-CF (hex) Amazon Technologies Inc.
40A9CF (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno
NV 89507
US

90-80-8F (hex) Huawei Device Co., Ltd.
90808F (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

10-71-00 (hex) Huawei Device Co., Ltd.
107100 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

F8-B9-5A (hex) LG Innotek
F8B95A (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

D4-4F-67 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D44F67 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B4-FF-98 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B4FF98 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

58-95-D8 (hex) IEEE Registration Authority
5895D8 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway
NJ 08554
US

F8-0D-AC (hex) HP Inc.

F80DAC (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

E4-47-91 (hex) Iris ID Systems, Inc.
E44791 (base 16) Iris ID Systems, Inc.
8 Clarke Drive
Cranbury 08512
US

F0-13-C1 (hex) Hannto Technology Co., Ltd
F013C1 (base 16) Hannto Technology Co., Ltd
Rm 704,No.1,Lane 88,Shengrong Road, Free Trade Pilot Area,
Shanghai Shanghai 200120
CN

88-50-F6 (hex) Shenzhen Jingxun Software Telecommunication Technology Co.,Ltd
8850F6 (base 16) Shenzhen Jingxun Software Telecommunication Technology Co.,Ltd
3/F,A5 Building Zhiyuan Community No.1001,Xueyuan Road Nanshan Distric
Shenzhen Guangdong 518055
CN

84-9D-C2 (hex) Shanghai MXCHIP Information Technology Co., Ltd.
849DC2 (base 16) Shanghai MXCHIP Information Technology Co., Ltd.
9th Floor, No. 5 Building, 2145 Jinshajiang Rd., Putuo District
Shanghai 200333
CN

18-45-16
(hex) Texas Instruments
184516 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

D0-2E-AB (hex) Texas Instruments
D02EAB (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

84-54-DF (hex) Huawei Device Co., Ltd.
8454DF (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

40-B5-C1 (hex) Cisco Systems, Inc
40B5C1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E8-84-A5 (hex) Intel Corporate
E884A5 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-C0-35 (hex) QUINTAR COMPANY
00C035 (base 16) QUINTAR COMPANY
370 AMAPOLA AVE., STE.#106
TORRANCE CA 90501
US

04-05-DD (hex) Shenzhen Cultraview Digital Technology Co., Ltd
0405DD (base 16) Shenzhen Cultraview Digital Technology Co., Ltd
F6,M6,Maqueling, High-tech park, Nanshan district
Shenzhen
Guangdong 518057
CN

38-97-A4 (hex) ELECOM CO.,LTD.
3897A4 (base 16) ELECOM CO.,LTD.
2F Kudan First Place Bldg. 4-1-28
Chiyoda-ku Kudan Kita 102-0073
JP

E4-33-AE (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
E433AE (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

38-7A-3C (hex) Fiberhome Telecommunication Technologies Co.,LTD
387A3C (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

8C-CE-4E (hex) Espressif Inc.
8CCE4E (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

1C-50-1E (hex) Sunplus Technology Co., Ltd.
1C501E (base 16) Sunplus Technology Co., Ltd.
19, Innovation First Road, Hsinchu Science Park
Hsinchu 300
TW

40-95-05 (hex) ACOINFO TECHNOLOGY CO.,LTD
409505 (base
16) ACOINFO TECHNOLOGY CO.,LTD
Building No.12,Zhongguancun Cuihu Technology Park,Haidian District,Beijing,China
Beijing 100095
CN

5C-D8-9E (hex) Huawei Device Co., Ltd.
5CD89E (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

DC-E9-94 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
DCE994 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

B8-2D-28 (hex) AMPAK Technology,Inc.
B82D28 (base 16) AMPAK Technology,Inc.
3F, No.15-1 Zhonghua Road, Hsinchu Industrail Park, Hukou,
Hsinchu Hsinchu,Taiwan R.O.C. 30352
TW

A4-13-4E (hex) Luxul
A4134E (base 16) Luxul
14203 Minuteman Drive
Draper UT 84020
US

FC-66-CF (hex) Apple, Inc.
FC66CF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

AC-1D-06 (hex) Apple, Inc.
AC1D06 (base 16) Apple, Inc.
1 Infinite Loop

Cupertino CA 95014
US

44-A8-FC (hex) Apple, Inc.
44A8FC (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F8-10-93 (hex) Apple, Inc.
F81093 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B8-5F-98 (hex) Amazon Technologies Inc.
B85F98 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

D8-F8-83 (hex) Intel Corporate
D8F883 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B4-36-D1 (hex) Renesas Electronics (Penang) Sdn. Bhd.
B436D1 (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

14-A9-D0 (hex) F5 Networks, Inc.
14A9D0 (base 16) F5 Networks, Inc.
801 5th Avenue
Seattle WA 98104
US

00-0A-49 (hex) F5 Networks, Inc.
000A49 (base
16) F5 Networks, Inc.
401 Elliott Ave. W.
Seattle WA 98119
US

00-94-A1 (hex) F5 Networks, Inc.
0094A1 (base 16) F5 Networks, Inc.

401 Elliott Ave. W.
Seattle WA 98119
US

80-F1-F1 (hex) Tech4home, Lda
80F1F1 (base 16) Tech4home, Lda
Rua de Fundoes N151
Sao Joao da Madeira Aveiro 3700-121
PT

DC-77-4C (hex) Cisco Systems, Inc
DC774C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

20-44-41 (hex) Remote Solution
204441 (base 16) Remote Solution
71, Gunpo Cheom Dan San eop 2-ro
Gunpo-si Gyeonggi-do 15880
KR

FC-44-82 (hex) Intel Corporate
FC4482 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

A0-85-FC (hex) Microsoft Corporation
A085FC (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

10-19-65 (hex) New H3C Technologies Co., Ltd
101965 (base 16) New H3C Technologies
Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

94-FF-61 (hex) China Mobile Group Device Co.,Ltd.
94FF61 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

00-61-51 (hex) HUAWEI TECHNOLOGIES CO.,LTD

006151 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

BC-76-C5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
BC76C5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

5C-02-72 (hex) Silicon Laboratories
5C0272 (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

00-04-30 (hex) Netgem
000430 (base 16) Netgem
27 rue d'Orleans

FR

04-46-CF (hex) Beijing Venustech Cybervision Co.,Ltd.
0446CF (base 16) Beijing Venustech Cybervision
Co.,Ltd.
Venus Plaza No.21Zhongguancun Software Park,No.8 Dongbeiwang Xilu, Haidian District
Beijing Beijing 100193
CN

B8-80-35 (hex) Shenzhen Qihu Intelligent Technology Company Limited
B88035 (base 16) Shenzhen Qihu Intelligent Technology Company Limited
Room 201, Block A, No.1, Qianwan Road 1,Qianhai Shenzhen HongKong Modern Service Industry Cooperation Zone
Shenzhen Guangdong 518057
CN

90-12-A1 (hex) We Corporation Inc.
9012A1 (base 16) We Corporation Inc.
201, 33, Deokcheon-ro, Manan-gu
Anyang-si Gyeonggi-do 14088
KR

64-B6-23 (hex) Schrack Seconet Care Communication GmbH
64B623 (base 16) Schrack Seconet Care Communication GmbH
Eibesbrunnergasse 18
Vienna 1120
AT

E8-1B-69 (hex) Sercomm Corporation.
E81B69 (base 16) Sercomm Corporation.
3F,No.81,Yu-Yih Rd.,Chu-Nan Chen
Miao-Lih Hsuan 115
TW

68-52-D6 (hex) UGame Technology Co.,Ltd
6852D6 (base 16) UGame Technology
Co.,Ltd
3F, Bld.7, F518 Idea Land, No. 1065 Baoyuan Road, Xixiang Street, Baoan District
Shenzhen 518102
CN

FC-19-99 (hex) Xiaomi Communications Co Ltd
FC1999 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

CC-87-4A (hex) Nokia
CC874A (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

A4-51-29 (hex) XAG
A45129 (base 16) XAG
Block C, 115 Gaopu Road
Guangzhou 510663
CN

B4-C2-6A (hex) Garmin International
B4C26A (base 16) Garmin International
1200 E. 151st St
Olathe KS 66062
US

78-F8-B8 (hex) Rako Controls Ltd
78F8B8 (base 16) Rako Controls Ltd
Knight Road
Rochester Kent ME2 2AH
GB

6C-E5-F7 (hex) New H3C Technologies Co., Ltd
6CE5F7 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052

CN

B8-DD-71 (hex) zte
corporation
B8DD71 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

F4-E5-78 (hex) LLC Proizvodstvennaya Kompania TransService
F4E578 (base 16) LLC Proizvodstvennaya Kompania TransService
Ulitsa Podolskih Kursantov, build. 3, of. 133
Moscow Moscow 117545
RU

08-54-BB (hex) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
0854BB (base 16) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
Unit East Block22-24/F,Skyworth semiconductor design Bldg., Gaoxin Ave.4.S.,Nanshan District,Shenzhen,China
SHENZHEN GUANGDONG 518057
CN

3C-B1-5B (hex) Avaya Inc
3CB15B (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

58-65-E6 (hex) infomark
5865E6 (base 16) infomark
#801, KINS TOWER, JEONGJA-DONG
SEONGNAM GYOUNGGI 463-847
KR

08-FB-EA (hex) AMPAK Technology,Inc.
08FBEA (base 16) AMPAK Technology,Inc.
3F, No.15-1 Zhonghua
Road, Hsinchu Industrail Park, Hukou,
Hsinchu Hsinchu,Taiwan R.O.C. 30352
TW

3C-9C-0F (hex) Intel Corporate
3C9C0F (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-0E-FF (hex) Megasolution,Inc.
000EFF (base 16) Megasolution,Inc.

2-7-10 Shitaya
Taito TOKYO 110-0004
JP

70-2C-09 (hex) Nintendo Co.,Ltd
702C09 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

E4-D3-73 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E4D373 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C0-BC-9A (hex) HUAWEI TECHNOLOGIES CO.,LTD
C0BC9A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

5C-44-3E (hex) Skullcandy
5C443E (base 16) Skullcandy
6301 N. Landmark Dr.
Park City UT 84098
US

F8-82-00
(hex) CaptionCall
F88200 (base 16) CaptionCall
4215 Riverboat Road
Salt Lake City UT 84123
US

00-50-F1 (hex) Maxlinear, Inc
0050F1 (base 16) Maxlinear, Inc
94 Em-Hamoshavot Way.
Petach-Tikva
IL

1C-5D-80 (hex) Mitubishi Hitachi Power Systems Industries Co., Ltd.
1C5D80 (base 16) Mitubishi Hitachi Power Systems Industries Co., Ltd.
Nakaku Aioimachi
Yokohama 2310012
JP

60-EB-5A (hex) Asterfusion Data Technologies Co.,Ltd

60EB5A (base 16) Asterfusion Data Technologies Co.,Ltd
B401, Building 2, Creative Industry Park, No.328 Xinghu Street, SIP, Suzhou
suzhou 215123
CN

80-16-05 (hex) Vodafone Italia S.p.A.
801605 (base 16) Vodafone Italia S.p.A.
Via Lorenteggio nr. 240
Milan Italy 20147
IT

00-C0-9F (hex) Quanta Computer Inc.
00C09F (base 16) Quanta Computer Inc.
7F., 116, HOU-KANG ST.,
TAIWAN TAIWAN R.O.C.
TW

C8-0A-A9 (hex) Quanta
Computer Inc.
C80AA9 (base 16) Quanta Computer Inc.
211, Wen Hwa 2nd Rd.,
Tao Yuan Kuei Shan 33377
TW

60-EB-69 (hex) Quanta Computer Inc.
60EB69 (base 16) Quanta Computer Inc.
211, Wen Hwa 2nd Rd.,Kuei Shan,
Tao Yuan 33377
TW

74-F7-F6 (hex) Shanghai Sunmi Technology Co.,Ltd.
74F7F6 (base 16) Shanghai Sunmi Technology Co.,Ltd.
Room 505, KIC Plaza, No.388 Song Hu Road, Yang Pu District, Shanghai, China
Shanghai Yang Pu District 200433
CN

A8-02-DB (hex) zte corporation
A802DB (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

B4-23-30 (hex) Itron Inc
B42330 (base 16) Itron Inc
2111 N Molter Rd
Liberty Lake WA 99019
US

00-08-95 (hex) DIRC Technologie GmbH & Co.KG
000895 (base 16) DIRC Technologie GmbH & Co.KG
Borsigstraße 13
Ratingen NRW 40880
DE

A0-22-DE (hex) vivo Mobile Communication Co.,
Ltd.
A022DE (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

FC-73-FB (hex) HUAWEI TECHNOLOGIES CO.,LTD
FC73FB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-26-9E (hex) Quanta Computer Inc.
00269E (base 16) Quanta Computer Inc.
NO. 211, WEN HWA 2RD., KUEI SHAN HSIANG, TAIPEI, SHIEN
TAO YUAN 333
TW

C4-54-44 (hex) Quanta Computer Inc.
C45444 (base 16) Quanta Computer Inc.
No.211, Wen Hwa 2nd Rd., Kuei Shan Hsiang, Tao Yuan Shien, Taiwan, R. O. C.
Taoyuan Taiwan 33377
TW

00-1B-24 (hex) Quanta Computer Inc.
001B24 (base 16) Quanta Computer Inc.
No. 211, Wen Hwa 2nd Rd.,
Kuei Shan Hsiang Tao Yuan Shien 333
TW

24-1A-E6 (hex) Huawei Device Co., Ltd.
241AE6 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong
523808
CN

60-B7-6E (hex) Google, Inc.
60B76E (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043

US

00-92-7D (hex) Ficosa Internationa(Taicang) C0.,Ltd.
00927D (base 16) Ficosa Internationa(Taicang) C0.,Ltd.
No.518, Middle Suzhou Rd., Taicang Economy Developing Area, Taicang,
Suzhou Jiangsu 215400
CN

44-16-22 (hex) Microsoft Corporation
441622 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

04-45-62 (hex) ANDRA Sp. z o. o.
044562 (base 16) ANDRA Sp. z o. o.
Pryzmaty 6/8
Warszawa 02-226
PL

94-AE-F0 (hex) Cisco Systems, Inc
94AEF0 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

DC-D9-AE (hex) Nokia Shanghai Bell Co., Ltd.
DCD9AE (base 16) Nokia Shanghai Bell Co., Ltd.
No.388 Ning Qiao Road,Jin Qiao Pudong Shanghai
Shanghai 201206
CN

C4-36-6C (hex) LG Innotek
C4366C
(base 16) LG Innotek
Jangduk-dong 978-1
Gwang-ju Gwangsan-gu 506-731
KR

1C-08-C1 (hex) LG Innotek
1C08C1 (base 16) LG Innotek
978-1 Jangduk dong, Gwangsangu
Gwangju Gwangju 506-731
KR

A4-97-B1 (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
A497B1 (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District

Chongqing Chongqing 401332
CN

D4-40-D0 (hex) OCOSMOS Co., LTD
D440D0 (base 16) OCOSMOS Co., LTD
(Tamnip-Dong) #1, 263-1 Techno 2-Ro Yuseong-Gu
Daejeon Daejeon 34026
KR

44-E6-B0 (hex) China Mobile IOT Company Limited
44E6B0 (base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area
Chongqing Chongqing 401336
CN

74-7A-90 (hex) Murata Manufacturing Co., Ltd.
747A90 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

58-B6-23 (hex) Beijing Xiaomi Mobile
Software Co., Ltd
58B623 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
Xiaomi Campus, No. 33 Xi erqi Middle Road, Haidian District
Beijing Beijing 100085
CN

14-00-7D (hex) zte corporation
14007D (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

24-E9-CA (hex) Huawei Device Co., Ltd.
24E9CA (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

BC-A9-93 (hex) Cambium Networks Limited
BCA993 (base 16) Cambium Networks Limited
Unit B2, Linhay Business Park,
Ashburton Devon TQ13 7UP
GB

70-3A-A6 (hex) New H3C Technologies Co., Ltd
703AA6 (base 16) New H3C Technologies Co., Ltd

466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

8C-CE-FD (hex) Shenzhen zhouhai technology co.,LTD
8CCEFD (base 16) Shenzhen zhouhai technology co.,LTD
401-403,415-416,
Area A, Block B, West Silicon Valley, 5010 Baoan Avenue, Baoan District, Shenzhen, China
Shenzhen Guangdong 518110
CN

50-FB-19 (hex) CHIPSEA TECHNOLOGIES (SHENZHEN) CORP.
50FB19 (base 16) CHIPSEA TECHNOLOGIES (SHENZHEN) CORP.
9F,BLOCK A,GARDEN CITY DIGITAL BUILDING,NO.1079 NANHAI ROAD,NANSHAN DISTRICT
SHEN ZHEN GUANG DONG 518000
CN

94-08-C7 (hex) Huawei Device Co., Ltd.
9408C7 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C8-CA-63 (hex) Huawei Device Co., Ltd.
C8CA63 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

94-37-F7 (hex) Huawei Device Co., Ltd.
9437F7 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

D0-C6-37 (hex) Intel Corporate
D0C637 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3

Kulim Kedah 09000
MY

90-3F-EA (hex) HUAWEI TECHNOLOGIES CO.,LTD
903FEA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

20-AB-48 (hex) HUAWEI TECHNOLOGIES CO.,LTD
20AB48 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

CC-D7-3C (hex) HUAWEI TECHNOLOGIES CO.,LTD
CCD73C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

98-B8-BC (hex) Samsung Electronics Co.,Ltd
98B8BC (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

18-4E-16 (hex) Samsung Electronics Co.,Ltd
184E16 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C0-3D-03 (hex) Samsung Electronics Co.,Ltd
C03D03 (base 16) Samsung Electronics
Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

10-74-6F (hex) MOTOROLA SOLUTIONS MALAYSIA SDN. BHD.
10746F (base 16) MOTOROLA SOLUTIONS MALAYSIA SDN. BHD.
INNOPLEX, NO. 2A, MEDAN BAYAN LEPAS, BAYAN LEPAS TECHNOPLEX
BAYAN LEPAS PENANG 11900
MY

94-E7-0B (hex) Intel Corporate
94E70B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

04-6C-59 (hex) Intel Corporate
046C59 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D4-AB-CD (hex) Hui Zhou Gaoshengda Technology Co.,LTD
D4ABCD (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

34-EA-E7 (hex) Shanghai High-Flying Electronics Technology Co., Ltd
34EAE7 (base 16) Shanghai High-Flying Electronics Technology Co., Ltd
Room 1002,#1Building,No.3000 Longdong Avenue,Pudong
Shanghai Shanghai 201202
CN

E0-0E-E4
(hex) DWnet Technologies(Suzhou) Corporation
E00EE4 (base 16) DWnet Technologies(Suzhou) Corporation
No.8,Tangzhuang Road, Suzhou Industrial Park, Jiangsu, China
Suzhou 21500
CN

58-FD-B1 (hex) LG Electronics
58FDB1 (base 16) LG Electronics
222 LG-ro, JINWI-MYEON
Pyeongtaek-si Gyeonggi-do 451-713
KR

A0-CA-A5 (hex) INTELLIGENCE TECHNOLOGY OF CEC CO., LTD
A0CAA5 (base 16) INTELLIGENCE TECHNOLOGY OF CEC CO., LTD
Tower A, NO.2 Lutuan Road, The sountern Of Future Science and Tech Zone, Changping District
Beijing Beijing 102209
CN

D4-92-34 (hex) NEC Corporation
D49234 (base 16) NEC Corporation
7-1 Shiba 5-chome
Minato-Ku Tokyo 108-8001
JP

38-68-93 (hex) Intel Corporate
386893 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

E8-85-4B (hex) Apple, Inc.
E8854B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

28-EC-95
(hex) Apple, Inc.
28EC95 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E0-2B-96 (hex) Apple, Inc.
E02B96 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-41-C6 (hex) Heat Tech Company, Ltd.
F041C6 (base 16) Heat Tech Company, Ltd.
221A, Tikhookeanskaya st.
Khabarovsk 680033
RU

E4-3A-65 (hex) MofiNetwork Inc
E43A65 (base 16) MofiNetwork Inc
11 Boynton Cir
Markham Ontario L6C 1A8
CA

F8-6C-03 (hex) Shenzhen Teleone Technology Co., Ltd
F86C03 (base 16) Shenzhen Teleone Technology Co., Ltd
TOWER B 5/F, SHANSHUI BUILDING, NANSHAN YUNGU INNOVATION INDUSTRY PARK, 1183 LIUXIAN AVENUE, NANSHAN, SHENZHEN, CHINA
Shenzhen 518000
CN

10-5D-DC (hex) Huawei Device Co., Ltd.
105DDC (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

DC-73-85 (hex) Huawei Device Co., Ltd.
DC7385
(base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

54-55-D5 (hex) Huawei Device Co., Ltd.

5455D5 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

18-45-93 (hex) Taicang T&W Electronics
184593 (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

CC-9E-CA (hex) HMD Global Oy
CC9ECA (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo Espoo 02600
FI

3C-30-6F (hex) HUAWEI TECHNOLOGIES CO.,LTD
3C306F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

80-E1-BF (hex) HUAWEI TECHNOLOGIES CO.,LTD
80E1BF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

48-2C-D0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
482CD0
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D8-71-4D (hex) Texas Instruments
D8714D (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

0C-EC-80 (hex) Texas Instruments
0CEC80 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

C4-98-86 (hex) Qorvo International Pte. Ltd.
C49886 (base 16) Qorvo International Pte. Ltd.
1 Changi Business Park Avenue 1
#04-01 486058
SG

5C-0F-FB (hex) Amino Communications Ltd
5C0FFB (base 16) Amino Communications Ltd
1010 Cambourne Business Park
Cambourne Cambs CB23 6DP
GB

3C-F6-52 (hex) zte corporation
3CF652 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

E8-2A-44 (hex) Liteon Technology Corporation
E82A44 (base 16) Liteon Technology Corporation
4F,
90, Chien 1 Road
New Taipei City Taiwan 23585
TW

48-E1-E9 (hex) Chengdu Meross Technology Co., Ltd.
48E1E9 (base 16) Chengdu Meross Technology Co., Ltd.
No. 25, Yizhou Avenue, Gaoxin
Chengdu Sichuan 610000
CN

08-B0-55 (hex) ASKEY COMPUTER CORP
08B055 (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

08-AA-55 (hex) Motorola Mobility LLC, a Lenovo Company
08AA55 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

70-9F-2D (hex) zte corporation
709F2D (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

A0-DE-0F (hex) Huawei Device Co., Ltd.
A0DE0F (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

F4-87-C5 (hex) Huawei Device Co., Ltd.
F487C5 (base
16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

74-58-F3 (hex) Amazon Technologies Inc.
7458F3 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

54-21-9D (hex) Samsung Electronics Co.,Ltd
54219D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A8-05-77 (hex) Netlist, Inc.
A80577 (base 16) Netlist, Inc.
175 Technology
Irvine CA 92618
US

40-40-28 (hex) ZIV
404028 (base 16) ZIV
Polígono Parque Tecnológico, 210
ZAMUDIO VIZCAYA 48170
ES

70-03-9F (hex) Espressif Inc.
70039F (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

88-2B-94 (hex) MADOKA SYSTEM Co.,Ltd.
882B94 (base 16) MADOKA SYSTEM Co.,Ltd.
2-105 Hanasakidai Moriyama-ku
Nagoya 463-0808

JP

7C-EF-61 (hex) STR Elektronik Josef Schlechtinger
GmbH
7CEF61 (base 16) STR Elektronik Josef Schlechtinger GmbH
Auf dem Ohl 9
Wenden 57482
DE

40-05-89 (hex) T-Mobile, USA
400589 (base 16) T-Mobile, USA
3625 132nd Ave SE
BELLEVUE WA 98006
US

24-62-CE (hex) Aruba, a Hewlett Packard Enterprise Company
2462CE (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

64-A9-65 (hex) Linkflow Co., Ltd.
64A965 (base 16) Linkflow Co., Ltd.
54, Nonhyeon-ro 2-gil, Gangnam-gu
Seoul 06313
KR

68-E2-09 (hex) HUAWEI TECHNOLOGIES CO.,LTD
68E209 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F4-30-8B (hex) Xiaomi Communications Co Ltd
F4308B (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

DC-6B-12 (hex) worldcns
inc.
DC6B12 (base 16) worldcns inc.
174, Namjo-ro 1-gil, Jocheon-eup
Jeju-si Jeju-do 63335
KR

00-13-54 (hex) Zcomax Technologies, Inc.
001354 (base 16) Zcomax Technologies, Inc.

98 Ford Road
Denville NJ 07834
US

C0-9B-F4 (hex) IEEE Registration Authority
C09BF4 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

28-23-73 (hex) Digita
282373 (base 16) Digita
Jämsänkatu 2
Helsinki Uusimaa 00520
FI

D0-AB-D5 (hex) Intel Corporate
D0ABD5 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D4-C1-C8 (hex) zte corporation
D4C1C8 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

88-D2-74 (hex) zte corporation
88D274 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

30-B2-37
(hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
30B237 (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

B0-B5-C3 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
B0B5C3 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

4C-CE-2D (hex) Danlaw Inc

4CCE2D (base 16) Danlaw Inc
23700 research Dr.
Farmington Hills MI 48335
US

BC-5A-56 (hex) Cisco Systems, Inc
BC5A56 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

BC-0F-9A (hex) D-Link International
BC0F9A (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

AC-4A-56 (hex) Cisco Systems, Inc
AC4A56 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

70-4A-0E
(hex) AMPAK Technology,Inc.
704A0E (base 16) AMPAK Technology,Inc.
3F, No.15-1 Zhonghua Road, Hsinchu Industrail Park, Hukou,
Hsinchu Hsinchu,Taiwan R.O.C. 30352
TW

B0-E4-D5 (hex) Google, Inc.
B0E4D5 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

0C-35-FE (hex) Fiberhome Telecommunication Technologies Co.,LTD
0C35FE (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

8C-83-DF (hex) Nokia
8C83DF (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

30-B9-B0 (hex) Intracom Asia Co., Ltd
30B9B0 (base 16) Intracom Asia Co., Ltd
4F., No77, Sec. 1, Xintai 5th Rd., Xizhi Dist.
New Taipei City Taiwan 221
TW

94-E7-EA (hex) HUAWEI TECHNOLOGIES CO.,LTD
94E7EA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-E4-BA (hex) Huawei
Device Co., Ltd.
94E4BA (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

34-71-46 (hex) Huawei Device Co., Ltd.
347146 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

2C-C5-46 (hex) Huawei Device Co., Ltd.
2CC546 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

0C-83-9A (hex) Huawei Device Co., Ltd.
0C839A (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E0-E0-FC (hex) Huawei Device Co., Ltd.
E0E0FC (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E0-D4-E8 (hex) Intel Corporate
E0D4E8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

30-50-75
(hex) GN Audio A/S
305075 (base 16) GN Audio A/S
Lautrupbjerg 7
Ballerup DK-2750
DK

90-EC-77 (hex) silicom
90EC77 (base 16) silicom
14 Atir-Yeda St/
Kfar-Sava Israel 44000
IL

F4-B7-8D (hex) HUAWEI TECHNOLOGIES CO.,LTD
F4B78D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A4-16-E7 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A416E7 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B4-09-31 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B40931 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

AC-4B-1E (hex) Integri-Sys.Com LLC
AC4B1E (base 16) Integri-Sys.Com LLC
9130 South Dadeland Bvld. Suite 1509
Miami FL 33156
US

68-69-CA (hex) Hitachi, Ltd.
6869CA (base 16) Hitachi,
Ltd.
27-18, Minami Oi 6-chome, Shinagawa-ku
Tokyo 140-8572
JP

D4-DA-CD (hex) SKY UK LIMITED
D4DACD (base 16) SKY UK LIMITED
130 Kings Road

Brentwood Essex 08854
GB

F4-DB-E3 (hex) Apple, Inc.
F4DBE3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

BC-42-8C (hex) ALPSALPINE CO,.LTD
BC428C (base 16) ALPSALPINE CO,.LTD
nishida 6-1
Kakuda-City Miyagi-Pref 981-1595
JP

D4-5E-EC (hex) Beijing Xiaomi Electronics Co., Ltd.
D45EEC (base 16) Beijing Xiaomi Electronics Co., Ltd.
Building C, QingHe ShunShiJiaYe Technology Park, #66 ZhuFang Rd, HaiDian District
Beijing Beijing 10085
CN

88-C3-97 (hex) Beijing Xiaomi Mobile Software Co., Ltd
88C397 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

F0-F6-C1 (hex) Sonos, Inc.
F0F6C1 (base 16) Sonos,
Inc.
614 Chapala St
Santa Barbara CA 93101
US

04-BD-BF (hex) Samsung Electronics Co.,Ltd
04BDBF (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

BC-7A-BF (hex) Samsung Electronics Co.,Ltd
BC7ABF (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

60-68-4E (hex) Samsung Electronics Co.,Ltd
60684E (base 16) Samsung Electronics Co.,Ltd

#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

4C-45-76 (hex) China Mobile(Hangzhou) Information Technology Co.,Ltd.
4C4576 (base 16) China Mobile(Hangzhou) Information Technology Co.,Ltd.
No. 1600 Yuhangtang Road, Wuchang Street, Yuhang District
Hangzhou Zhejiang 310000
CN

74-C9-29 (hex) Zhejiang Dahua Technology Co., Ltd.
74C929 (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

94-CC-04 (hex) IEEE Registration Authority
94CC04
(base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

80-20-FD (hex) Samsung Electronics Co.,Ltd
8020FD (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B4-CE-40 (hex) Samsung Electronics Co.,Ltd
B4CE40 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

9C-C9-EB (hex) NETGEAR
9CC9EB (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

5C-B2-9E (hex) ASCO Power Technologies
5CB29E (base 16) ASCO Power Technologies
160 Park Avenue
Florham Park NJ 07932
US

B4-40-A4 (hex) Apple, Inc.

B440A4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

48-B8-A3 (hex) Apple, Inc.
48B8A3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

30-80-9B (hex) New H3C Technologies Co., Ltd
30809B (base 16) New H3C Technologies
Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

64-F2-FB (hex) Hangzhou Ezviz Software Co.,Ltd.
64F2FB (base 16) Hangzhou Ezviz Software Co.,Ltd.
Room 302, Unit B, Building 2, 399 Danfeng Road,Binjiang District
Hangzhou Zhejiang 310051
CN

6C-0D-34 (hex) Nokia
6C0D34 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

F4-19-E2 (hex) Volterra
F419E2 (base 16) Volterra
2550 Great America Way #350
Santa Clara CA 95054
US

D8-07-B6 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
D807B6 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

64-6E-97 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
646E97 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen
Guangdong 518057
CN

D8-4D-B9 (hex) Wu Qi Technologies,Inc.
D84DB9 (base 16) Wu Qi Technologies,Inc.
14/F, 107 Middle Road, Xiantao Big Data Valley, Yubei District
Chongqing Chongqing 401120
CN

A0-4F-85 (hex) LG Electronics (Mobile Communications)
A04F85 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

6C-16-32 (hex) HUAWEI TECHNOLOGIES CO.,LTD
6C1632 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

2C-1A-01 (hex) HUAWEI TECHNOLOGIES CO.,LTD
2C1A01 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

24-16-9D (hex) Cisco Systems, Inc
24169D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-23-3D (hex) Laird Technologies
00233D (base 16) Laird Technologies
Meesmannstrasse
103
Bochum 44807
DE

74-22-BB (hex) Huawei Device Co., Ltd.
7422BB (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

34-78-39 (hex) zte corporation
347839 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057

CN

30-AB-6A (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
30AB6A (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak SEMTHAI, WELLGROW INDUSTRIAL ESTATE
Bangpakong Chachoengsao 24180
TH

74-9B-E8 (hex) Hitron Technologies. Inc
749BE8 (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

4C-63-71 (hex) Xiaomi Communications Co Ltd
4C6371 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District,
Beijing 100085
CN

00-DD-25 (hex) Shenzhen hechengdong Technology Co., Ltd
00DD25 (base 16) Shenzhen hechengdong Technology Co., Ltd
302, floor 3, no.90-5, Dayang Road, Xintian community, Fuhai street, Bao'an District
Shenzhen GuangDong 518100
CN

8C-60-78 (hex) Swissbit AG
8C6078 (base 16) Swissbit AG
Industriestrasse 4
Bronschhofen CH-9552
CH

F8-0D-F0 (hex) zte corporation
F80DF0 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

5C-BA-EF (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
5CBAEF (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

00-0A-DB (hex) Trilliant
000ADB (base 16) Trilliant
401 Harrison Oaks Blvd. Suite 300

Cary NC 27513
US

04-45-A1 (hex) NIRIT- Xinwei Telecom Technology Co., Ltd.
0445A1
(base 16) NIRIT- Xinwei Telecom Technology Co., Ltd.
2-? ??????????? ??????, ?.12, ???.2
Moscow 115432
RU

9C-E9-1C (hex) zte corporation
9CE91C (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

14-F6-D8 (hex) Intel Corporate
14F6D8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

8C-97-EA (hex) FREEBOX SAS
8C97EA (base 16) FREEBOX SAS
16 rue de la Ville l'Eveque
PARIS IdF 75008
FR

80-20-E1 (hex) BVBA DPTechnics
8020E1 (base 16) BVBA DPTechnics
Westkapellestraat 396/44
Knokke-Heist West-Vlaanderen 8300
BE

FC-8E-6E (hex) StreamCCTV, LLC
FC8E6E (base 16) StreamCCTV, LLC
1129 Northern Blvd, STE. 404
Manhasset 11030
US

78-8B-2A (hex) Zhen Shi Information Technology (Shanghai) Co., Ltd.
788B2A (base 16) Zhen Shi Information Technology (Shanghai) Co., Ltd.
5F, Building
3?No. 401 Caobao Road, Xuhui District, Shanghai, China
Shanghai Shanghai 200233
CN

AC-64-CF (hex) FN-LINK TECHNOLOGY LIMITED

AC64CF (base 16) FN-LINK TECHNOLOGY LIMITED
A Building,HuiXin industial park,No 31, YongHe road, Fuyong town, Bao'an District
SHENZHEN GUANGDONG 518100
CN

5C-17-CF (hex) OnePlus Technology (Shenzhen) Co., Ltd
5C17CF (base 16) OnePlus Technology (Shenzhen) Co., Ltd
18C02, 18C03, 18C04 ,18C05,TAIRAN BUILDING,
Shenzhen Guangdong 518000
CN

10-29-59 (hex) Apple, Inc.
102959 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E4-76-84 (hex) Apple, Inc.
E47684 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-5C-D5 (hex) Apple, Inc.
F05CD5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E0-2A-E6 (hex) Fiberhome Telecommunication Technologies Co.,LTD
E02AE6 (base 16) Fiberhome Telecommunication Technologies
Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

3C-DA-6D (hex) Tiandy Technologies CO.,LTD
3CDA6D (base 16) Tiandy Technologies CO.,LTD
NO.8,haitai huake rd2 (outside ring road),huayuan new technology industrial park
Tianjin Tianjin 300384
CN

A4-FA-76 (hex) New H3C Technologies Co., Ltd
A4FA76 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

3C-FA-D3 (hex) IEEE Registration Authority
3CFAD3 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

48-B0-2D (hex) NVIDIA Corporation
48B02D (base 16) NVIDIA Corporation
2701 San Tomas Expressway
Santa Clara CA 95050
US

B4-1A-1D (hex) Samsung Electronics Co.,Ltd
B41A1D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F0-67-28 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
F06728 (base 16) GUANGDONG
OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

9C-E1-76 (hex) Cisco Systems, Inc
9CE176 (base 16) Cisco Systems, Inc
80 West Tasman Dr.
San Jose CA 94568
US

70-EA-5A (hex) Apple, Inc.
70EA5A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

18-AF-A1 (hex) Shenzhen Yifang Network Technology Co., Ltd.
18AFA1 (base 16) Shenzhen Yifang Network Technology Co., Ltd.
21 / F, Kangjia R & D building, No.28, Keji South 12th Road, Nanshan District, Shenzhen City, Guangdong Province, China
Shenzhen Nanshan District 518000
CN

54-CE-69 (hex) Hikari Trading Co.,Ltd.
54CE69 (base 16) Hikari Trading Co.,Ltd.
Hikari Building,7-4-14,Ginza,Chuo-ku
Tokyo 104-0061

JP

6C-AE-F6 (hex) eero inc.
6CAEF6 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

FC-F5-C4 (hex) Espressif Inc.
FCF5C4 (base 16) Espressif
Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

E8-26-B6 (hex) Companies House to GlucoRx Technologies Ltd.
E826B6 (base 16) Companies House to GlucoRx Technologies Ltd.
Strathpeffer Road
Dingwall Scotland IV159QF
GB

00-76-3D (hex) Veea
00763D (base 16) Veea
164 E 83rd Street
New York NY 10028
US

C0-14-B8 (hex) Nokia
C014B8 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

D0-28-BA (hex) Realme Chongqing MobileTelecommunications Corp Ltd
D028BA (base 16) Realme Chongqing MobileTelecommunications Corp Ltd
No.24 Nichang Boulevard, Huixing Block, Yubei District, Chongqing.
Chongqing China 401120
CN

A4-28-B7 (hex) Yangtze Memory Technologies Co., Ltd.
A428B7 (base 16) Yangtze Memory Technologies Co., Ltd.
No.88 Weilai 3rd Road, East Lake High-tech Development Zone, Wuhan, Hubei, POC
Wuhan Hubei 430078
CN

94-92-D2
(hex) KCF Technologies, Inc.
9492D2 (base 16) KCF Technologies, Inc.

336 S Fraser Street
State College PA 16801
US

E4-A8-DF (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
E4A8DF (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO. 25, THE 3RD Street KUNSHAN EXPORT PROCESSING ZONE
KUNSHAN SUZHOU 215300
CN

74-D4-35 (hex) GIGA-BYTE TECHNOLOGY CO.,LTD.
74D435 (base 16) GIGA-BYTE TECHNOLOGY CO.,LTD.
Pin-Jen City, Taoyuan, Taiwan, R.O.C.
Pin-Jen Taoyuan 324
TW

40-8D-5C (hex) GIGA-BYTE TECHNOLOGY CO.,LTD.
408D5C (base 16) GIGA-BYTE TECHNOLOGY CO.,LTD.
Pin-Jen City, Taoyuan, Taiwan, R.O.C.
Pin-Jen Taoyuan 324
TW

6C-C6-3B (hex) Taicang T&W Electronics
6CC63B (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

4C-E1-76 (hex) Cisco Systems, Inc
4CE176 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

14-34-F6 (hex) LV
SOLUTION SDN. BHD.
1434F6 (base 16) LV SOLUTION SDN. BHD.
43, JLN 11/118B, DESA TUN RAZAK
Kuala Lumpur Kuala Lumpur 56000
MY

30-93-BC (hex) Sagemcom Broadband SAS
3093BC (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

8C-53-C3 (hex) Beijing Xiaomi Mobile Software Co., Ltd

8C53C3 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

D8-3B-BF (hex) Intel Corporate
D83BBF (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-0D-BB (hex) Nippon Dentsu Co.,Ltd.
000DBB (base 16) Nippon Dentsu Co.,Ltd.
2-21-1,Isoji
Osaka 552-0003
JP

0C-EE-99 (hex) Amazon Technologies Inc.
0CEE99 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

F4-FE-FB (hex) Samsung Electronics
Co.,Ltd
F4FEFB (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

58-8E-81 (hex) Silicon Laboratories
588E81 (base 16) Silicon Laboratories
7000 W. William Cannon Dr.
Austin TX 78735
US

90-2B-34 (hex) GIGA-BYTE TECHNOLOGY CO.,LTD.
902B34 (base 16) GIGA-BYTE TECHNOLOGY CO.,LTD.
Pin-Jen City,
Pin-Jen Taoyuan 324
TW

94-DE-80 (hex) GIGA-BYTE TECHNOLOGY CO.,LTD.
94DE80 (base 16) GIGA-BYTE TECHNOLOGY CO.,LTD.
Pin-Jen City, Taoyuan, Taiwan, R.O.C.
Pin-Jen Taoyuan 324
TW

70-2F-35 (hex) HUAWEI TECHNOLOGIES CO.,LTD
702F35 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-3F-72 (hex) Mellanox Technologies, Inc.
043F72 (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

F8-6F-DE (hex) Shenzhen Goodix Technology
Co.,Ltd.
F86FDE (base 16) Shenzhen Goodix Technology Co.,Ltd.
F13,Phase B,Tengfei Industrial Building,Futian Free Trade Zone,Shenzhen,China
Shenzhen Guangdong 518045
CN

3C-41-0E (hex) Cisco Systems, Inc
3C410E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

20-74-54 (hex) vivo Mobile Communication Co., Ltd.
207454 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

B8-C9-B5 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
B8C9B5 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

00-1F-F6 (hex) PS Audio International
001FF6 (base 16) PS Audio International
4826 Sterling Drive
Boulder CO 80301
US

00-69-67 (hex) IEEE Registration Authority
006967 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

1C-4D-66
(hex) Amazon Technologies Inc.
1C4D66 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

64-66-24 (hex) Sagemcom Broadband SAS
646624 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

B0-F5-30 (hex) Hitron Technologies. Inc
B0F530 (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

00-45-E2 (hex) CyberTAN Technology Inc.
0045E2 (base 16) CyberTAN Technology Inc.
99 Park Ave III, Hsinchu Science Park
Hsinchu 308
TW

00-1E-B8 (hex) Aloys, Inc
001EB8 (base 16) Aloys, Inc
#3F HANWHA TECHWIN R&D BLDG. 4-5, YANGHYEON-RO 405 BEON-GIL,
JUNGWON-GU, SEONGNAM-SI GYEONGGI-DO 13438
KR

98-49-14 (hex) Wistron Neweb Corporation
984914 (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu
R.O.C. 308
TW

50-2C-C6 (hex) GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI
502CC6 (base 16) GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI
Jinji West Road, Qianshan,
Zhuhai Guangdong 519070
CN

0C-E4-A0 (hex) Huawei Device Co., Ltd.
0CE4A0 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone

Dongguan Guangdong 523808
CN

BC-1A-E4 (hex) Huawei Device Co., Ltd.
BC1AE4 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

74-0A-E1 (hex) Huawei Device Co., Ltd.
740AE1 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

B4-A8-98 (hex) Huawei Device Co., Ltd.
B4A898 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

00-27-E3 (hex) Cisco Systems, Inc
0027E3 (base 16) Cisco Systems, Inc
80
West Tasman Drive
San Jose CA 94568
US

08-9C-86 (hex) Nokia Shanghai Bell Co., Ltd.
089C86 (base 16) Nokia Shanghai Bell Co., Ltd.
No.388 Ning Qiao Road,Jin Qiao Pudong Shanghai 201206,P.R.China
Shanghai Pudong 201206
CN

F0-51-36 (hex) TCT mobile ltd
F05136 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

10-59-32 (hex) Roku, Inc
105932 (base 16) Roku, Inc
1155 Coleman Ave
San Jose CA 95110
US

78-17-BE (hex) HUAWEI TECHNOLOGIES CO.,LTD
7817BE (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

1C-1E-38 (hex) PCCW Global, Inc.
1C1E38 (base 16) PCCW Global, Inc.
475 Spring Park Pl Suite 100 Herndon VA 20170
Herndon WA 20170
US

F0-72-EA (hex) Google, Inc.
F072EA (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View
CA 94043
US

B8-7B-C5 (hex) Apple, Inc.
B87BC5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

40-70-F5 (hex) Apple, Inc.
4070F5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B0-35-B5 (hex) Apple, Inc.
B035B5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

88-AC-C0 (hex) Zyxel Communications Corporation
88ACC0 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

90-FD-73 (hex) zte corporation
90FD73 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

80-0C-67 (hex) Apple, Inc.

800C67 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

90-81-2A (hex) Apple, Inc.
90812A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

EC-9C-32 (hex) Sichuan AI-Link Technology
Co., Ltd.
EC9C32 (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou,Industrial Park
Anzhou,Industrial Park Sichuan 621000
CN

4C-AD-A8 (hex) PANOPTICS CORP.
4CADA8 (base 16) PANOPTICS CORP.
D-908 Bundang Technopark, 700 Pangyoro, Bundang
Seongnam Gyeonggi 13516
KR

98-1B-B5 (hex) ASSA ABLOY Korea Co., Ltd iRevo
981BB5 (base 16) ASSA ABLOY Korea Co., Ltd iRevo
10F of JEI PLATZ Bldg., 186, Gasandigital-ro, Geumcheon-gu
Seoul 08502
KR

D4-2D-C5 (hex) i-PRO Co., Ltd.
D42DC5 (base 16) i-PRO Co., Ltd.
4-1-62 Minoshima, Hakata-ku
Fukuoka City 812-8531
JP

F0-B1-07 (hex) Ericsson AB
F0B107 (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

E8-D0-3C (hex) Shenzhen Jingxun Software Telecommunication Technology Co.,Ltd
E8D03C (base 16) Shenzhen Jingxun Software Telecommunication Technology Co.,Ltd
3/F,A5 Building Zhiyuan Community No.1001,Xueyuan Road Nanshan
District
Shenzhen Guangdong 518055
CN

1C-1A-DF (hex) Microsoft Corporation
1C1ADF (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

D4-F5-47 (hex) Google, Inc.
D4F547 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

E0-40-07 (hex) Huawei Device Co., Ltd.
E04007 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

70-CE-8C (hex) Samsung Electronics Co.,Ltd
70CE8C (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

78-3A-6C (hex) TECNO MOBILE LIMITED
783A6C (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

34-CB-1A (hex) Procter & Gamble Company
34CB1A (base 16) Procter & Gamble Company
2 Procter
& Gamble Plaza
Cincinnati OH 45202
US

90-AF-D1 (hex) netKTI Co., Ltd
90AFD1 (base 16) netKTI Co., Ltd
7-10F THE-ONE SQUARE, 135, Unjung-ro, Bundang-gu
Seongnam-si Gyeonggi-do 13461
KR

7C-48-B2 (hex) Vida Resources Lte Ltd
7C48B2 (base 16) Vida Resources Lte Ltd
10 Anson road, unit #16-20 International Plaza

Singapore 079903
SG

C4-E0-DE (hex) Zhengzhou XindaJiean Information Technology Co.,Ltd.
C4E0DE (base 16) Zhengzhou XindaJiean Information Technology Co.,Ltd.
Tianli building A, wisdom park, no. 139, yangjin road, jinshui district
Zhengzhou Henan 450003
CN

90-1A-4F (hex) EM Microelectronic
901A4F (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

D8-8A-DC (hex) Huawei Device Co., Ltd.
D88ADC (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

CC-6A-10 (hex) The Chamberlain Group,
Inc
CC6A10 (base 16) The Chamberlain Group, Inc
300 Windsor Drive
Oak Brook IL 60523
US

00-04-C9 (hex) Micro Electron Co., Ltd.
0004C9 (base 16) Micro Electron Co., Ltd.
13-1-205 Aobaokakita
Suita-city Osaka
JP

C8-4F-0E (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
C84F0E (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

10-E9-53 (hex) Huawei Device Co., Ltd.
10E953 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

B8-87-C6 (hex) Prudential Technology co.,LTD
B887C6 (base 16) Prudential Technology co.,LTD

UNIT 4,7/F BRIGHT WAY TOWER, NO33 MONG KOK RD,
Hong Kong 999077
CN

FC-1C-A1 (hex) Nokia
FC1CA1 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

6C-D2-BA (hex) zte corporation
6CD2BA (base 16) zte corporation
12/F.,zte
R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

30-3A-BA (hex) Guangzhou BaoLun Electronics Co., Ltd
303ABA (base 16) Guangzhou BaoLun Electronics Co., Ltd
No.1 Building B Block, Zhongcun Street, Panyu District
Guangzhou guangdong 511400
CN

C4-3A-35 (hex) FN-LINK TECHNOLOGY LIMITED
C43A35 (base 16) FN-LINK TECHNOLOGY LIMITED
A Building,HuiXin industial park,No 31, YongHe road, Fuyong town, Bao'an District
SHENZHEN GUANGDONG 518100
CN

04-D1-6E (hex) IEEE Registration Authority
04D16E (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

F0-3F-95 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F03F95 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

18-56-44 (hex) HUAWEI TECHNOLOGIES CO.,LTD
185644 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room
R6,Songshan Lake Technology Park
Dongguan 523808
CN

9C-69-D1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
9C69D1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-0E-3C (hex) HP Inc.
040E3C (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

6C-1C-71 (hex) Zhejiang Dahua Technology Co., Ltd.
6C1C71 (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

78-C8-81 (hex) Sony Interactive Entertainment Inc.
78C881 (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

70-48-F7 (hex) Nintendo Co.,Ltd
7048F7 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

18-E1-CA (hex) wanze
18E1CA (base 16) wanze
wanjinglu
dandong Liaoning 118000
CN

CC-EF-03 (hex) Hunan Keyshare Communication
Technology Co., Ltd.
CCEF03 (base 16) Hunan Keyshare Communication Technology Co., Ltd.
No. 19 Building, CEC Software Park, No. 39 jianshan Rd
Changsha Hunan 410205
CN

30-91-76 (hex) Skyworth Digital Technology(Shenzhen) Co.,Ltd
309176 (base 16) Skyworth Digital Technology(Shenzhen) Co.,Ltd
7F,Block A,Skyworth Building,
Shenzhen Guangdong 518057
CN

D4-4F-68 (hex) Eidetic Communications Inc
D44F68 (base 16) Eidetic Communications Inc
3553 31st NW
Calgary Alberta T2L2K7
CA

34-0F-66 (hex) Web Sensing LLC
340F66 (base 16) Web Sensing LLC
P.O. Box 692
Hanover NH 03755
US

B4-02-16 (hex) Cisco Systems, Inc
B40216 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

54-A4-93 (hex) IEEE Registration Authority
54A493 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

8C-C8-4B (hex) CHONGQING FUGUI ELECTRONICS
CO.,LTD.
8CC84B (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

0C-2F-B0 (hex) Samsung Electronics Co.,Ltd
0C2FB0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

74-9E-A5 (hex) OHSUNG
749EA5 (base 16) OHSUNG
335-4,SANHODAERO,GUMI,GYEONG BUK,KOREA
GUMI GYEONG BUK 730-030
KR

00-22-72 (hex) American Micro-Fuel Device Corp.
002272 (base 16) American Micro-Fuel Device Corp.
2181 Buchanan Loop
Ferndale WA 98248

US

00-D0-EF (hex) IGT
00D0EF (base 16) IGT
9295 PROTOTYPE DRIVE
RENO NV 89511
US

EC-BE-DD (hex) Sagemcom Broadband SAS
ECBEDD (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

88-57-1D (hex) Seongji Industry Company
88571D (base 16) Seongji Industry Company

54-33, Dongtanhana 1-gil
Hwaseong-si Gyeonggi-do 18423
KR

B0-4F-C3 (hex) Shenzhen NVC Cloud Technology Co., Ltd.
B04FC3 (base 16) Shenzhen NVC Cloud Technology Co., Ltd.
Rm. 1406, Bld. 11A, Shenzhen Bay Eco-Technology Park, Nanshan Dist.,
Shenzhen Guangdong 518063
CN

40-55-82 (hex) Nokia
405582 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

A4-E3-1B (hex) Nokia
A4E31B (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

B8-A5-8D (hex) Axe Group Holdings Limited
B8A58D (base 16) Axe Group Holdings Limited
Road Town
tortola VG1110
VG

50-CE-E3 (hex) Gigafirm.co.LTD
50CEE3 (base 16) Gigafirm.co.LTD
3-21-8,kisonishi

machida-city tokyo 1940037
JP

F4-97-C2 (hex) Nebulon Inc
F497C2 (base 16) Nebulon Inc
3089 Skyway Court
Fremont CA 94539
US

58-85-E9 (hex) Realme Chongqing MobileTelecommunications Corp Ltd
5885E9 (base 16) Realme
Chongqing MobileTelecommunications Corp Ltd
No.24 Nichang Boulevard, Huixing Block, Yubei District, Chongqing.
Chongqing China 401120
CN

4C-1D-96 (hex) Intel Corporate
4C1D96 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

BC-23-92 (hex) BYD Precision Manufacture Company Ltd.
BC2392 (base 16) BYD Precision Manufacture Company Ltd.
No.3001, Bao He Road, Baolong Industrial, Longgang Street,Longgang Zone, Shenzhen
shenzhen 518116
CN

94-E6-F7 (hex) Intel Corporate
94E6F7 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D8-97-90 (hex) Commonwealth Scientific and Industrial Research Organisation
D89790 (base 16) Commonwealth Scientific and Industrial Research Organisation
GPO Box 1700
Canberra ACT 2601
AU

88-3A-30 (hex) Aruba, a Hewlett Packard Enterprise Company
883A30 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333
Scott Blvd
Santa Clara CA 95054
US

F4-BD-9E (hex) Cisco Systems, Inc

F4BD9E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A4-45-19 (hex) Xiaomi Communications Co Ltd
A44519 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

84-46-FE (hex) HUAWEI TECHNOLOGIES CO.,LTD
8446FE (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D8-29-18 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D82918 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

08-60-83 (hex) zte corporation
086083 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

E0-19-54 (hex) zte corporation
E01954
(base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

7C-F3-1B (hex) LG Electronics (Mobile Communications)
7CF31B (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

10-32-7E (hex) Huawei Device Co., Ltd.
10327E (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C4-19-D1 (hex) Telink Semiconductor (Shanghai) Co., Ltd.
C419D1 (base 16) Telink Semiconductor (Shanghai) Co., Ltd.
No. 1500 Zuchongzhi Rd, Building #3
Shanghai 201203
CN

64-B2-1D (hex) Chengdu Phycom Tech Co., Ltd.
64B21D (base 16) Chengdu Phycom Tech Co., Ltd.
No.216 beisen road
Chengdu Sichuan 610000
CN

C4-29-96 (hex) Signify B.V.
C42996 (base 16) Signify B.V.
High Tech Campus 7
Eindhoven 5656AE
NL

B0-65-F1 (hex) WIO Manufacturing HK
Limited
B065F1 (base 16) WIO Manufacturing HK Limited
15/F OTB Building, 160 Glocester Road
Hong Kong 00000
HK

90-12-34 (hex) Shenzhen YOUHUA Technology Co., Ltd
901234 (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

54-2A-1B (hex) Sonos, Inc.
542A1B (base 16) Sonos, Inc.
614 Chapala St
Santa Barbara CA 93101
US

38-C4-E8 (hex) NSS Sp. z o.o.
38C4E8 (base 16) NSS Sp. z o.o.
Modularna 11
Warszawa 02-238
PL

34-DD-7E (hex) Umeox Innovations Co.,Ltd
34DD7E (base 16) Umeox Innovations Co.,Ltd
Room 1208-09, Research Building, Tsinghua Information Port, No. 1, Xindong Road, Nanshan District, Shenzhen
Shenzhen Guangdong 518000
CN

CC-CD-64 (hex) SM-Electronic GmbH
CCCD64 (base 16) SM-Electronic GmbH
Waldweg 2
Stapelfeld / Braak 22145
DE

24-DF-A7
(hex) Hangzhou BroadLink Technology Co.,Ltd
24DFA7 (base 16) Hangzhou BroadLink Technology Co.,Ltd
Room 101,1/F,Unit C,Building 1,No.57 Jiang'er Road,Changhe Street,Binjiang District,Hangzhou,Zhejiang,P.R.China
Hangzhou Zhejiang 310052
CN

5C-92-5E (hex) Zioncom Electronics (Shenzhen) Ltd.
5C925E (base 16) Zioncom Electronics (Shenzhen) Ltd.
A1&A2 Building,Lantian Technology Park, Xinyu Road, Xingqiao Henggang Block, Shajing Street, Baoan District
Shenzhen Guangdong 518000
CN

08-4F-A9 (hex) Cisco Systems, Inc
084FA9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

08-4F-F9 (hex) Cisco Systems, Inc
084FF9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

98-06-37 (hex) IEEE Registration Authority
980637 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

F8-08-4F (hex) Sagemcom Broadband SAS
F8084F
(base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

30-FB-B8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
30FBB8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

18-02-AE (hex) vivo Mobile Communication Co., Ltd.
1802AE (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

0C-20-D3 (hex) vivo Mobile Communication Co., Ltd.
0C20D3 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

68-DB-F5 (hex) Amazon Technologies Inc.
68DBF5 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

24-46-C8 (hex) Motorola Mobility LLC, a Lenovo Company
2446C8 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL
60654
US

44-D7-91 (hex) HUAWEI TECHNOLOGIES CO.,LTD
44D791 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

50-98-B8 (hex) New H3C Technologies Co., Ltd
5098B8 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

B8-4D-EE (hex) Hisense broadband multimedia technology Co.,Ltd
B84DEE (base 16) Hisense broadband multimedia technology Co.,Ltd
Song ling Road 399
Qingdao 266000
CN

8C-B8-4A (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)

8CB84A (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak SEMTHAI, WELLGROW INDUSTRIAL ESTATE
Bangpakong Chachoengsao 24180
TH

98-E8-FA (hex) Nintendo Co.,Ltd
98E8FA (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

D4-6B-A6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D46BA6 (base
16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

CC-05-77 (hex) HUAWEI TECHNOLOGIES CO.,LTD
CC0577 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-93-52 (hex) SHANGHAI ZHONGMI COMMUNICATION TECHNOLOGY CO.,LTD
A89352 (base 16) SHANGHAI ZHONGMI COMMUNICATION TECHNOLOGY CO.,LTD
RM510,418 Guiping Road,xuhui-Park
shanghai shanghai 200233
CN

E4-CC-9D (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
E4CC9D (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

A8-D0-E3 (hex) Systech Electronics Ltd
A8D0E3 (base 16) Systech Electronics Ltd
Lever Tech Centre, 69-71 King Yip Street,
, 852
HK

30-8B-B2 (hex) Cisco Systems, Inc
308BB2 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San
Jose CA 94568
US

E0-EB-62 (hex) Shanghai Hulu Devices Co., Ltd
E0EB62 (base 16) Shanghai Hulu Devices Co., Ltd
509 Caobao Road, Rm 101-2 Bld 9
Shanghai 200233
CN

98-BA-39 (hex) Doro AB
98BA39 (base 16) Doro AB
Jörgen Kocksgatan 1B
Malmö Skane 211 20
SE

6C-E8-C6 (hex) Earda Technologies co Ltd
6CE8C6 (base 16) Earda Technologies co Ltd
Block A,Lianfeng Creative Park, #2 Jisheng Rd., Nansha District
Guangzhou Guangdong 511455
CN

1C-41-76 (hex) China Mobile Group Device Co.,Ltd.
1C4176 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

48-21-6C (hex) China Mobile IOT Company Limited
48216C (base 16) China Mobile IOT Company Limited
Building D3,No.8 Yangliu North Road,Yubei District
CHONGQING CHONGQING 401121
CN

8C-BE-24 (hex) Tashang Semiconductor(Shanghai) Co., Ltd.
8CBE24 (base 16) Tashang Semiconductor(Shanghai)
Co., Ltd.
Room 903, Building 5, Minggu Science Park,No. 7001, Zhong Chun Road, Minhang District ,Shanghai 201101, P.R. China
Shanghai 123456
CN

E8-6F-38 (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
E86F38 (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

94-DC-4E (hex) AEV, spol. s r. o.
94DC4E (base 16) AEV, spol. s r. o.
Jozky Silneho 2783/9

Kromeriz 76701
CZ

54-DE-D0 (hex) Sevio Srl
54DED0 (base 16) Sevio Srl
Via Dei Caniana 6/A
Bergamo Bergamo 24127
IT

08-68-8D (hex) New H3C Technologies Co., Ltd
08688D (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

08-B3-AF (hex) vivo Mobile Communication Co., Ltd.
08B3AF (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan
City,Guangdong, 523860
CN

30-86-2D (hex) Arista Network, Inc.
30862D (base 16) Arista Network, Inc.
5453 Great America Parkway
Santa Clara CA 95054
US

40-19-20 (hex) Movon Corporation
401920 (base 16) Movon Corporation
3Fl, Hyunjuk Bldg. 7 selleung-ro, 94gil, Gangnam-gu
Seoul 06161
KR

60-8B-0E (hex) Apple, Inc.
608B0E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

18-71-D5 (hex) Hazens Automotive Electronics(SZ)Co.,Ltd.
1871D5 (base 16) Hazens Automotive Electronics(SZ)Co.,Ltd.
C8 Building, Building 13, Zhongxin Innovation Industry City, No.12, Ganli No.6 Road, Ganli Industrial Park, Buji Street, Longgang District
Shenzhen Guangdong 518100
CN

AC-B1-EE (hex) SHENZHEN FENDA TECHNOLOGY CO., LTD

ACB1EE (base 16) SHENZHEN FENDA TECHNOLOGY CO., LTD
Fenda Hi-Tech Park, Zhoushi Road, Shiyan, Baoan
ShenZhen GuangDong 518108
CN

F8-AD-CB (hex) HMD Global Oy
F8ADCB
(base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

00-01-78 (hex) MARGI Systems, Inc.
000178 (base 16) MARGI Systems, Inc.
3155 Kearney Street. - Ste.#200
Fremont CA 94538
US

58-C8-76 (hex) China Mobile (Hangzhou) Information Technology Co., Ltd.
58C876 (base 16) China Mobile (Hangzhou) Information Technology Co., Ltd.
No. 1600 Yuhangtang Road, Wuchang Street, Yuhang District
Hangzhou Zhejiang 310000
CN

50-E0-85 (hex) Intel Corporate
50E085 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

14-42-FC (hex) Texas Instruments
1442FC (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

AC-5D-5C (hex) FN-LINK TECHNOLOGY LIMITED
AC5D5C (base 16) FN-LINK TECHNOLOGY LIMITED
A Building,HuiXin industial park,No 31, YongHe road, Fuyong town, Bao'an District
SHENZHEN GUANGDONG 518100
CN

A4-AE-11 (hex) Hon Hai Precision
Industry Co., Ltd.
A4AE11 (base 16) Hon Hai Precision Industry Co., Ltd.
GuangDongShenZhen
ShenZhen GuangDong 518109
CN

2C-1E-4F (hex) Chengdu Qianli Network Technology Co., Ltd.
2C1E4F (base 16) Chengdu Qianli Network Technology Co., Ltd.
Room 1208, 4 Building, Ideal Center, NO.38 Tianyi Street, Chengdu High-tech Zone
Chengdu Sichuan 610000
CN

00-90-52 (hex) SELCOM ELETTRONICA S.R.L.
009052 (base 16) SELCOM ELETTRONICA S.R.L.
VIA GRANDI, 5
40013 CASTELMAGGIORE BO
IT

00-1A-83 (hex) Pegasus Technologies Inc.
001A83 (base 16) Pegasus Technologies Inc.
108 Pawnook Farm Rd.
Lenoir City TN 37771
US

6C-5E-3B (hex) Cisco Systems, Inc
6C5E3B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

D0-37-45 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
D03745 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and
Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

60-3A-7C (hex) TP-LINK TECHNOLOGIES CO.,LTD.
603A7C (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

D4-62-EA (hex) HUAWEI TECHNOLOGIES CO.,LTD
D462EA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

54-BA-D6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
54BAD6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

94-0B-19 (hex) HUAWEI TECHNOLOGIES CO.,LTD
940B19 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

70-C7-F2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
70C7F2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin
Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

DC-A6-32 (hex) Raspberry Pi Trading Ltd
DCA632 (base 16) Raspberry Pi Trading Ltd
Maurice Wilkes Building, Cowley Road
Cambridge CB4 0DS
GB

88-F5-6E (hex) HUAWEI TECHNOLOGIES CO.,LTD
88F56E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C8-C2-FA (hex) HUAWEI TECHNOLOGIES CO.,LTD
C8C2FA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

88-B3-62 (hex) Nokia Shanghai Bell Co., Ltd.
88B362 (base 16) Nokia Shanghai Bell Co., Ltd.
No.388 Ning Qiao Road,Jin Qiao Pudong Shanghai 201206,P.R.China
Shanghai Pudong 201206
CN

08-47-D0 (hex) Nokia Shanghai Bell Co., Ltd.
0847D0 (base 16) Nokia Shanghai Bell Co., Ltd.
No.388 Ning Qiao Road,Jin Qiao Pudong Shanghai 201206,P.R.China
Shanghai
Pudong 201206
CN

CC-90-93 (hex) Hansong Tehnologies
CC9093 (base 16) Hansong Tehnologies

8 Kangping road, New development zone
Nanjing Jiangsu 210006
CN

BC-97-E1 (hex) Broadcom Limited
BC97E1 (base 16) Broadcom Limited
15191 Alton Parkway
Irvine CA 92618
US

28-D1-B7 (hex) Shenzhen YOUHUA Technology Co., Ltd
28D1B7 (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

0C-B7-71 (hex) ARRIS Group, Inc.
0CB771 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

24-16-6D (hex) HUAWEI TECHNOLOGIES CO.,LTD
24166D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

38-94-ED (hex) NETGEAR
3894ED (base 16) NETGEAR
350 East Plumeria Drive
San Jose
CA 95134
US

70-04-33 (hex) California Things Inc.
700433 (base 16) California Things Inc.
650 main st
redwood city CA 94063
US

CC-64-A6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
CC64A6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

30-31-7D (hex) Hosiden Corporation

30317D (base 16) Hosiden Corporation
4-33, Kitakyuhoji 1-chome
Yao Osaka 5810071
JP

F0-A9-68 (hex) Antailiye Technology Co.,Ltd
F0A968 (base 16) Antailiye Technology Co.,Ltd
7/F,Zhengjiyuan Buiding,2 Road,Qianjing, Xixiang, Baoan District,Shenzhen
SHEN ZHEN GUANGDONG 518000
CN

50-AF-4D (hex) zte corporation
50AF4D (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

C8-EA-F8 (hex) zte corporation
C8EAF8 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen
guangdong 518057
CN

14-84-30 (hex) MITAC COMPUTING TECHNOLOGY CORPORATION
148430 (base 16) MITAC COMPUTING TECHNOLOGY CORPORATION
3F., NO.1, R&D ROAD 2, HSINCHU SCIENCE PARK
HSINCHU 30076
TW

B8-A4-4F (hex) Axis Communications AB
B8A44F (base 16) Axis Communications AB
Emdalavägen 14
LUND 22369
SE

00-24-EB (hex) ClearPath Networks, Inc.
0024EB (base 16) ClearPath Networks, Inc.
1940 E. Mariposa Ave
El Segundo CA 90245
US

D8-13-99 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
D81399 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

54-E0-19 (hex) Ring LLC
54E019 (base 16) Ring LLC
1523 26th St
Santa Monica CA 90404
US

5C-FA-FB (hex) Acubit
5CFAFB (base 16) Acubit
Afred Nobels Vej 21A
Aalborg Ø 9220
DK

9C-7B-EF (hex) Hewlett Packard
9C7BEF
(base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

84-8B-CD (hex) IEEE Registration Authority
848BCD (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

08-ED-ED (hex) Zhejiang Dahua Technology Co., Ltd.
08EDED (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

88-29-9C (hex) Samsung Electronics Co.,Ltd
88299C (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

7C-89-56 (hex) Samsung Electronics Co.,Ltd
7C8956 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

38-3B-26 (hex) Jiangsu Qinheng Co., Ltd.
383B26 (base 16) Jiangsu Qinheng Co., Ltd.
No. 18, Ningshuang Road
Nanjing Jiangsu 210012
CN

74-2E-DB (hex) Perinet GmbH
742EDB (base 16) Perinet GmbH
Rudower Chaussee 29
Berlin Berlin 12489
DE

20-17-42
(hex) LG Electronics
201742 (base 16) LG Electronics
222 LG-ro, JINWI-MYEON
Pyeongtaek-si Gyeonggi-do 451-713
KR

CC-88-26 (hex) LG Innotek
CC8826 (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

EC-5B-73 (hex) Advanced & Wise Technology Corp.
EC5B73 (base 16) Advanced & Wise Technology Corp.
5F, No. 3-2, Industry East 9th Road, Hsinchu Science Park,
Hsinchu City Hsinchu 30075
TW

DC-71-96 (hex) Intel Corporate
DC7196 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D0-9C-7A (hex) Xiaomi Communications Co Ltd
D09C7A (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

1C-69-7A (hex) EliteGroup Computer Systems Co., LTD
1C697A (base 16) EliteGroup Computer Systems Co., LTD
No.239, Sec. 2, TiDing Blvd. Nei-Hu
Dist.
Taipei Taiwan 11439
TW

4C-17-44 (hex) Amazon Technologies Inc.
4C1744 (base 16) Amazon Technologies Inc.
P.O. Box 8102

Reno NV 89507
US

B0-30-55 (hex) China Mobile IOT Company Limited
B03055 (base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area
Chongqing Chongqing 401336
CN

90-5C-34 (hex) Sirius Electronic Systems Srl
905C34 (base 16) Sirius Electronic Systems Srl
via Robinie, 33
Gravellona Toce VB 28883
IT

D4-6A-35 (hex) Cisco Systems, Inc
D46A35 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

14-C0-3E (hex) ARRIS Group, Inc.
14C03E (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

C0-89-AB (hex) ARRIS Group, Inc.
C089AB (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

D4-4D-A4 (hex) Murata Manufacturing Co., Ltd.
D44DA4 (base 16) Murata Manufacturing
Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

C8-2C-2B (hex) IEEE Registration Authority
C82C2B (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

80-20-DA (hex) Sagemcom Broadband SAS
8020DA (base 16) Sagemcom Broadband SAS

250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

F8-E5-CF (hex) CGI IT UK LIMITED
F8E5CF (base 16) CGI IT UK LIMITED
20 Fenchurch Street, 14th Floor
London EC3M 3BY
GB

68-82-F2 (hex) grandcentrix GmbH
6882F2 (base 16) grandcentrix GmbH
Holzmarkt 1
Cologne NW 50676
DE

D4-20-B0 (hex) Mist Systems, Inc.
D420B0 (base 16) Mist Systems, Inc.
1601 South De Anza Blvd, Suite 248
Cupertino CA 95014
US

9C-49-7F (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
9C497F (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan
Lepas Penang 11900
MY

C4-E3-9F (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
C4E39F (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

24-79-F3 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
2479F3 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

80-A2-35 (hex) Edgecore Networks Corporation
80A235 (base 16) Edgecore Networks Corporation
1 Creation RD 3.
Hsinchu 30077
TW

C8-C6-4A (hex) Flextronics Tech.(Ind) Pvt Ltd

C8C64A (base 16) Flextronics Tech.(Ind) Pvt Ltd
365, Benjamin Road
Sricity Vardahiah Palem(M),Chilamathur Village, Chittoor Distict 517646
IN

00-A0-B0 (hex) I-O DATA DEVICE,INC.
00A0B0 (base 16) I-O DATA DEVICE,INC.
24-1, SAKURADA-MACHI
KANAZAWA, ISHIKAWA 920 na
JP

00-22-AF (hex) Safety Vision, LLC
0022AF
(base 16) Safety Vision, LLC
6100 W. Sam Houston Pkwy. North
Houston 77041
US

A0-91-A2 (hex) OnePlus Electronics (Shenzhen) Co., Ltd.
A091A2 (base 16) OnePlus Electronics (Shenzhen) Co., Ltd.
Room 201, Block A, No.1, 1st Qian Wan Road, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, China.
Shenzhen Guangdong 518000
CN

40-23-43 (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
402343 (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

00-21-B7 (hex) LEXMARK INTERNATIONAL, INC.
0021B7 (base 16) LEXMARK INTERNATIONAL, INC.
740 West New Circle Road
Lexington KY 40550
US

68-84-7E (hex) FUJITSU LIMITED
68847E (base 16) FUJITSU LIMITED
403, Kosugi-cho 1-chome, Nakahara-ku
Kawasaki Kanagawa 211-0063
JP

F8-9A-78 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F89A78 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2
Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

88-F8-72 (hex) HUAWEI TECHNOLOGIES CO.,LTD
88F872 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

EC-56-23 (hex) HUAWEI TECHNOLOGIES CO.,LTD
EC5623 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

54-86-BC (hex) Cisco Systems, Inc
5486BC (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

30-EA-26 (hex) Sycada BV
30EA26 (base 16) Sycada BV
Burgemeester Stramanweg 105B
Amsterdam 1101 AA
NL

18-F1-8E (hex) ChipER Technology co. ltd
18F18E (base 16) ChipER Technology co. ltd
907 University Ave#299
Middleton WI 53562
US

00-30-85 (hex) Cisco Systems, Inc
003085 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San
Jose CA 94568
US

60-92-F5 (hex) ARRIS Group, Inc.
6092F5 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-80-B5 (hex) UNITED NETWORKS INC.
0080B5 (base 16) UNITED NETWORKS INC.
2178 PARAGON DRIVE
SAN JOSE CA 95131

US

B8-08-CF (hex) Intel Corporate
B808CF (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

60-5F-8D (hex) eero inc.
605F8D (base 16) eero inc.
500 Howard Street, Suite 900
SAN FRANCISCO CA 94105
US

C4-B3-6A (hex) Cisco Systems, Inc
C4B36A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

70-F7-54 (hex) AMPAK Technology,Inc.
70F754 (base 16) AMPAK Technology,Inc.
3F, No.15-1 Zhonghua Road, Hsinchu Industrail Park, Hukou,
Hsinchu Hsinchu,Taiwan R.O.C. 30352
TW

6C-8B-D3 (hex) Cisco Systems, Inc
6C8BD3 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San
Jose CA 94568
US

68-97-4B (hex) Shenzhen Costar Electronics Co. Ltd.
68974B (base 16) Shenzhen Costar Electronics Co. Ltd.
No.94 Fuyuan 1st Road,Yuyuan Industrial Park,
Shenzhen Guangdong 518103
CN

34-E1-D1 (hex) IEEE Registration Authority
34E1D1 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

10-82-86 (hex) Luxshare Precision Industry Co.,Ltd
108286 (base 16) Luxshare Precision Industry Co.,Ltd
2nd floor, A building, Sanyo New Industrial Area, West of Maoyi, Shajing Baoan District

Shenzhen Shenzhen 518104
CN

14-B4-57 (hex) Silicon Laboratories
14B457 (base 16) Silicon Laboratories
7000 W. William Cannon Dr.
Austin TX 78735
US

DC-96-2C (hex) NST Audio Ltd
DC962C (base 16) NST Audio Ltd
32 Whitewall
Norton North Yorkshire YO17 9EH
GB

50-EC-50 (hex) Beijing Xiaomi Mobile Software Co., Ltd
50EC50 (base 16) Beijing Xiaomi Mobile
Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

60-63-F9 (hex) Ciholas, Inc.
6063F9 (base 16) Ciholas, Inc.
3700 Bell Rd
Newburgh IN 47630-7907
US

AC-8F-F8 (hex) Nokia
AC8FF8 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

60-03-A6 (hex) Inteno Broadband Technology AB
6003A6 (base 16) Inteno Broadband Technology AB
Stensätravägen 13
Skärholmen SE 127 39
SE

44-B2-95 (hex) Sichuan AI-Link Technology Co., Ltd.
44B295 (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou,Industrial Park
Anzhou,Industrial Park Sichuan 621000
CN

94-24-E1 (hex) Alcatel-Lucent Enterprise
9424E1 (base 16) Alcatel-Lucent Enterprise

26801 West Agoura Rd
Calabasas CA 91301
US

60-61-DF (hex) Z-meta Research LLC
6061DF (base 16) Z-meta Research LLC
8365 Quay Drive
Arvada CO 80003
US

70-57-BF
(hex) New H3C Technologies Co., Ltd
7057BF (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

08-97-98 (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
089798 (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO. 25, THE 3RD Street KUNSHAN EXPORT PROCESSING ZONE
KUNSHAN SUZHOU 215300
CN

18-02-2D (hex) HUAWEI TECHNOLOGIES CO.,LTD
18022D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D8-BC-59 (hex) Shenzhen DAPU Microelectronics Co., Ltd
D8BC59 (base 16) Shenzhen DAPU Microelectronics Co., Ltd
Room B 503, No.2 Building, Tian’an Digital New Town, Huangge Middle Road, Longgang District
Shenzhen Guangdong 518100
CN

8C-79-F5 (hex) Samsung Electronics Co.,Ltd
8C79F5 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

24-6F-28
(hex) Espressif Inc.
246F28 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

00-12-2A (hex) VTech Telecommunications Ltd.
00122A (base 16) VTech Telecommunications Ltd.
23/F, Tai Ping Industrial Centre, Block 1
NA 00000
HK

00-04-22 (hex) Studio Technologies, Inc
000422 (base 16) Studio Technologies, Inc
7440 Frontage Rd
Skokie IL 60077-3212
US

80-DA-13 (hex) eero inc.
80DA13 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

48-F8-DB (hex) HUAWEI TECHNOLOGIES CO.,LTD
48F8DB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C0-8A-CD (hex) Guangzhou Shiyuan Electronic Technology Company Limited
C08ACD (base 16) Guangzhou Shiyuan Electronic Technology Company Limited
No.6, 4th Yunpu Road, Yunpu industry District
Guangzhou
Guangdong 510530
CN

D8-1E-DD (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
D81EDD (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

D4-3F-CB (hex) ARRIS Group, Inc.
D43FCB (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

B0-51-8E (hex) Holl technology CO.Ltd.
B0518E (base 16) Holl technology CO.Ltd.
F2,Bld 27,Anle Industrial Park,Nantou Guankou No.2 Road
Shenzhen Guangdong 518052
CN

68-17-29 (hex) Intel Corporate
681729 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

28-52-E0 (hex) Layon international Electronic & Telecom Co.,Ltd
2852E0 (base 16) Layon international Electronic & Telecom Co.,Ltd
4rd Floor, Building 15, Juda Industrial Zone, ShiBei Industrial Road, HuiJiang , Da Shi Street, PanYu District,Guangzhou,China
guangzhou guangdong 511430
CN

7C-61-66
(hex) Amazon Technologies Inc.
7C6166 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

98-9B-CB (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
989BCB (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

F8-CA-59 (hex) NetComm Wireless
F8CA59 (base 16) NetComm Wireless
LEVEL 5, 18-20 ORION RD. LANE COVE
LANE COVE WEST NSW 2066
AU

AC-F6-F7 (hex) LG Electronics (Mobile Communications)
ACF6F7 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

58-CB-52 (hex) Google, Inc.
58CB52 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

88-B2-91 (hex) Apple, Inc.
88B291 (base 16) Apple, Inc.
1 Infinite Loop

Cupertino CA 95014
US

C4-2A-D0 (hex) Apple, Inc.
C42AD0 (base 16) Apple, Inc.
1
Infinite Loop
Cupertino CA 95014
US

CC-D2-81 (hex) Apple, Inc.
CCD281 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F8-4D-33 (hex) Fiberhome Telecommunication Technologies Co.,LTD
F84D33 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

10-77-17 (hex) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
107717 (base 16) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
Unit East Block22-24/F,Skyworth semiconductor design Bldg., Gaoxin Ave.4.S.,Nanshan District,Shenzhen,China
SHENZHEN GUANGDONG 518057
CN

A8-6D-5F (hex) Raisecom Technology CO., LTD
A86D5F (base 16) Raisecom Technology CO., LTD
No. 11, East Area, No. 10 Block, East Xibeiwang Road
Beijing 100094
CN

48-E6-C0 (hex) SIMCom Wireless Solutions Co.,Ltd.
48E6C0 (base 16) SIMCom Wireless Solutions Co.,Ltd.
Building B,SIM Technology Building,No.633,Jinzhong Road
Shanghai
200335
CN

38-3C-9C (hex) Fujian Newland Payment Technology Co.,Ltd.
383C9C (base 16) Fujian Newland Payment Technology Co.,Ltd.
No. B602,Building #1,Haixia Jingmao Plaza,Fuzhou Bonded Area
Fuzhou Fujian 350015
CN

C0-2E-25 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD

C02E25 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

20-0D-B0 (hex) Shenzhen Four Seas Global Link Network Technology Co., Ltd.
200DB0 (base 16) Shenzhen Four Seas Global Link Network Technology Co., Ltd.
Room 607-610, Block B, TAOJINDI Electronic Business Incubation Base
Tenglong Road, Longhua District, Shenzhen Guangdong 518000
CN

10-0C-6B (hex) NETGEAR
100C6B (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

58-EC-ED (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
58ECED (base 16) Integrated Device Technology (Malaysia)
Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

C4-F0-EC (hex) Fiberhome Telecommunication Technologies Co.,LTD
C4F0EC (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

D8-8D-C8 (hex) Atil Technology Co., LTD
D88DC8 (base 16) Atil Technology Co., LTD
Rm. 3, 21F., No.93, Sec. 2, Roosevelt Rd.,
Da’an Dist., Taipei City 106
TW

E8-0F-C8 (hex) Universal Electronics, Inc.
E80FC8 (base 16) Universal Electronics, Inc.
201 E. Sandpointe Ave
Santa Ana CA 92707
US

90-9A-77 (hex) Texas Instruments
909A77 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

04-EE-03 (hex) Texas Instruments
04EE03 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

4C-24-98 (hex) Texas Instruments
4C2498 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

7C-D9-5C (hex) Google,
Inc.
7CD95C (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

4C-AE-A3 (hex) Hewlett Packard Enterprise
4CAEA3 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

1C-2E-1B (hex) Suzhou Tremenet Communication Technology Co., Ltd.
1C2E1B (base 16) Suzhou Tremenet Communication Technology Co., Ltd.
Room 413, Nangong Building, 399 Linquan Street, SIP
Suzhou Jiangsu 215123
CN

00-EE-AB (hex) Cisco Systems, Inc
00EEAB (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

54-A7-03 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
54A703 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

90-7A-58 (hex) Zegna-Daidong Limited
907A58 (base 16) Zegna-Daidong Limited
Rooms 14-17, 18/F, Nan Fung
Commercial, Centre 19 Lam Lok Street, Kowloon Bay
Hong Kong 999077

HK

E0-09-BF (hex) SHENZHENTONG BO WEITECHNOLOGY Co.,LTD
E009BF (base 16) SHENZHENTONG BO WEITECHNOLOGY Co.,LTD
5th floor building 4 pengtengda industriallangkou communitydalang street longhua newly developed area
Shenzhen GuangDong 518000
CN

C8-AA-CC (hex) Private
C8AACC (base 16) Private

00-21-67 (hex) HWA JIN T&I Corp.
002167 (base 16) HWA JIN T&I Corp.
5F., SEHWA Bldg 164-24, Poi-dong, Gangnam-gu, Seoul, Korea
Gangnam-gu Seoul 135-960
KR

00-0B-86 (hex) Aruba, a Hewlett Packard Enterprise Company
000B86 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

D8-C7-C8 (hex) Aruba, a Hewlett Packard Enterprise Company
D8C7C8 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

B0-00-73 (hex) Wistron Neweb Corporation
B00073
(base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

00-1B-F7 (hex) Lund IP Products AB
001BF7 (base 16) Lund IP Products AB
Dalbyv. 1
Lund Skåne 224 60
SE

84-69-91 (hex) Nokia
846991 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

00-13-1E (hex) peiker acustic GmbH
00131E (base 16) peiker acustic GmbH
Max-Planck-Strasse 28-32
Friedrichsdorf 61381
DE

78-36-07 (hex) Cermate Technologies Inc.
783607 (base 16) Cermate Technologies Inc.
7F-1, No 168 Lien-Chen Rd.
Chung-Ho Dist New Taipei City
TW

1C-24-EB (hex) Burlywood
1C24EB (base 16) Burlywood
1501 S Sunset Street
Longmont CO 80501
US

00-10-13 (hex) Kontron America, Inc.
001013 (base 16) Kontron America, Inc.
14118 Stowe Drive
Poway, CA 9206
US

70-3A-0E (hex) Aruba, a Hewlett Packard Enterprise Company
703A0E (base
16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

20-4C-03 (hex) Aruba, a Hewlett Packard Enterprise Company
204C03 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

A8-E2-C1 (hex) Texas Instruments
A8E2C1 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

58-C6-F0 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
58C6F0 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

84-A0-6E (hex) Sagemcom Broadband SAS
84A06E (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

88-4A-18 (hex) Opulinks
884A18 (base 16) Opulinks
F 28, No.328, Huashan Rd
Shanghai 200040
CN

00-11-5A (hex) Ivoclar Vivadent AG
00115A (base 16) Ivoclar Vivadent AG
Bendererstrasse
2
Schaan 9494
LI

A4-3E-A0 (hex) iComm HK LIMITED
A43EA0 (base 16) iComm HK LIMITED
Room 702 Kowloon Building 555 Nathan Road Kowloon HongKong
Kowloon NA
HK

64-C2-DE (hex) LG Electronics (Mobile Communications)
64C2DE (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

8C-44-4F (hex) HUMAX Co., Ltd.
8C444F (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

00-67-62 (hex) Fiberhome Telecommunication Technologies Co.,LTD
006762 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

2C-C4-07 (hex) machineQ
2CC407 (base 16) machineQ
1900 market st
philadelphia PA 19103

US

40-DF-02 (hex) LINE BIZ Plus
40DF02 (base 16) LINE BIZ Plus
Alphadom Tower IV (6F), Bundangnaegok-ro 117, Bundang-gu
Seongnam Gyeonggi
13529
KR

D4-3B-04 (hex) Intel Corporate
D43B04 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

90-02-18 (hex) SKY UK LIMITED
900218 (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

14-4E-2A (hex) Ciena Corporation
144E2A (base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

00-07-CB (hex) FREEBOX SAS
0007CB (base 16) FREEBOX SAS
8 rue de la Ville l'Eveque
Paris 75008
FR

14-9F-B6 (hex) GUANGDONG GENIUS TECHNOLOGY CO., LTD.
149FB6 (base 16) GUANGDONG GENIUS TECHNOLOGY CO., LTD.
#126,BBK Road,Wusha,Chang'An
Dong Guan Guang Dong 523860
CN

DC-31-D1 (hex) vivo Mobile Communication Co., Ltd.
DC31D1 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

2C-2B-F9 (hex) LG Innotek
2C2BF9 (base 16) LG Innotek
26, Hanamsandan 5beon-ro

Gwangju
Gwangsan-gu 506-731
KR

84-13-9F (hex) zte corporation
84139F (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

B4-ED-19 (hex) Pie Digital, Inc.
B4ED19 (base 16) Pie Digital, Inc.
575 Market st., 8th floor
San Francisco CA 94105-2823
US

74-95-EC (hex) ALPSALPINE CO,.LTD
7495EC (base 16) ALPSALPINE CO,.LTD
6-1
Kakuda Miyagi-Pref 981-1595
JP

AC-5A-EE (hex) China Mobile Group Device Co.,Ltd.
AC5AEE (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

F0-51-EA (hex) Fitbit, Inc.
F051EA (base 16) Fitbit, Inc.
199 Fremont Street, 14th Fl
San Francisco CA 94105
US

50-33-F0 (hex) YICHEN (SHENZHEN) TECHNOLOGY CO.LTD
5033F0 (base 16) YICHEN (SHENZHEN) TECHNOLOGY CO.LTD
23F, Building C1, Nanshan iPark, No. 1001 Xueyuan Road, Nanshan District,
Shenzhen City, Guangdong, China
shenzhen 518044
CN

4C-E1-9E (hex) TECNO MOBILE LIMITED
4CE19E (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

44-1A-FA (hex) New H3C Technologies Co., Ltd
441AFA (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

04-07-2E (hex) VTech Electronics Ltd.
04072E (base 16) VTech Electronics Ltd.
23rd Floor, Block 1, Tai Ping Industrial Centre, 57 Ting Kok Road
Tai Po, N.T. NA
HK

FC-2B-B2 (hex) Actiontec Electronics, Inc
FC2BB2 (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

E0-9F-2A (hex) Iton Technology Corp.
E09F2A (base 16) Iton Technology Corp.
Room 1302, Block A, Building 4Huangge Road, Longgang District
Shenzhen Guangdong
518116
CN

9C-69-B4 (hex) IEEE Registration Authority
9C69B4 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

44-B4-33 (hex) tide.co.,ltd
44B433 (base 16) tide.co.,ltd
9F Kapeul GreatValley A-dong, Digitalro 9-ghil 32, Geumcheon-gu
seoul seoul ASIKRKS006
KR

00-06-F7 (hex) ALPSALPINE CO,.LTD
0006F7 (base 16) ALPSALPINE CO,.LTD
6-3-36 Furukawanakazato,
Osaki Miyagi-pref 989-6181
JP

00-07-04 (hex) ALPSALPINE CO,.LTD
000704 (base 16) ALPSALPINE CO,.LTD
6-3-36 Furukawanakazato,
Osaki Miyagi-pref 989-6181
JP

00-06-F5 (hex) ALPSALPINE CO,.LTD
0006F5 (base 16) ALPSALPINE CO,.LTD
6-3-36 Furukawanakazato,
Osaki Miyagi-pref 989-6181
JP

34-C7-31 (hex) ALPSALPINE CO,.LTD
34C731 (base 16) ALPSALPINE CO,.LTD
6-3-36 Furukawanakazato,
Osaki Miyagi-pref 989-6181
JP

64-D4-BD (hex) ALPSALPINE CO,.LTD
64D4BD (base 16) ALPSALPINE
CO,.LTD
6-1
KAKUDA-CITY MIYAGI-PREF 981-1595
JP

50-00-84 (hex) Siemens Canada
500084 (base 16) Siemens Canada
300 Applewood Crescent
Concord Ontario L4K 5C7
CA

70-BC-10 (hex) Microsoft Corporation
70BC10 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

04-98-F3 (hex) ALPSALPINE CO,.LTD
0498F3 (base 16) ALPSALPINE CO,.LTD
6-1 NISHIDA
KAKUDA MIYAGI PREF 9876-8501
JP

00-21-4F (hex) ALPSALPINE CO,.LTD
00214F (base 16) ALPSALPINE CO,.LTD
1-2-1, Okinouchi,
Soma-city, Fukushima-pref., 976-8501
JP

24-7D-4D (hex) Texas Instruments
247D4D (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243

US

DC-21-B9 (hex) Sentec Co.Ltd
DC21B9 (base 16) Sentec Co.Ltd
10, Baekseokgongdan 1-ro, Seobuk-gu
Cheonan-si Chungcheongnam-do 31094
KR

6C-DF-FB (hex) IEEE Registration Authority
6CDFFB (base 16) IEEE Registration Authority
445
Hoes Lane
Piscataway NJ 08554
US

20-32-33 (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
203233 (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268 Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

70-5E-55 (hex) Realme Chongqing MobileTelecommunications Corp Ltd
705E55 (base 16) Realme Chongqing MobileTelecommunications Corp Ltd
No.24 Nichang Boulevard, Huixing Block, Yubei District, Chongqing.
Chongqing China 401120
CN

B0-D5-68 (hex) Shenzhen Cultraview Digital Technology Co., Ltd
B0D568 (base 16) Shenzhen Cultraview Digital Technology Co., Ltd
F6,M6,Maqueling, High-tech park, Nanshan district
Shenzhen Guangdong 518057
CN

F0-0E-BF (hex) ZettaHash Inc.
F00EBF (base 16) ZettaHash Inc.
6F Chiyoda Ogawamachi Crosta, 1-11, Kanda Ogawamachi
Chiyoda-ku Tokyo 101-0052
JP

E4-98-BB (hex) Phyplus Microelectronics Limited
E498BB (base 16) Phyplus
Microelectronics Limited
304 Building 1 No.608 Sheng Xia Road
Shanghai 200000
CN

60-A1-1E (hex) Wuhan Maxsine Electric Co.,Ltd.
60A11E (base 16) Wuhan Maxsine Electric Co.,Ltd.

Building A6, Hangyu Building, No 7, Wuhan University Science Park Road, East Lake Development District,Wuhan,China.
Wuhan Hubei 430000
CN

C4-5B-F7 (hex) ants
C45BF7 (base 16) ants
1164-21,Haeun-daero, Haeundae-gu,
Busan 48069
KR

8C-DF-9D (hex) NEC Corporation
8CDF9D (base 16) NEC Corporation
7-1, Shiba 5-chome,
Tokyo Tokyo 108-8001
JP

70-35-09 (hex) Cisco Systems, Inc
703509 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

04-EA-56 (hex) Intel Corporate
04EA56 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

5C-41-5A (hex) Amazon.com, LLC
5C415A (base 16) Amazon.com, LLC
1200 12th Ave. South, Suite 1200
Seattle
98144
US

A8-B4-56 (hex) Cisco Systems, Inc
A8B456 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A4-94-26 (hex) Elgama-Elektronika Ltd.
A49426 (base 16) Elgama-Elektronika Ltd.
Visoriu str. 2
Vilnius LT-08300
LT

94-54-DF (hex) YST CORP.
9454DF (base 16) YST CORP.
A-1407, 767, Sinsu-ro, Suji-gu,
Yongin-si Gyeonggi-do 16827
KR

2C-A9-F0 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
2CA9F0 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

54-9B-72 (hex) Ericsson AB
549B72 (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

A0-47-D7 (hex) Best IT World (India) Pvt Ltd
A047D7 (base 16) Best IT World (India) Pvt Ltd
87, Mistry Complex,, Midc Cross Road A, Andheri-East
Mumbai Maharashtra 400093
IN

68-99-CD (hex) Cisco Systems, Inc
6899CD
(base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

68-29-DC (hex) Ficosa Electronics S.L.U.
6829DC (base 16) Ficosa Electronics S.L.U.
Pol.Ind Can Mitjans s/n Viladecavalls Barcelona
Viladecavalls Barcelona ES08232
ES

F8-0D-F1 (hex) Sontex SA
F80DF1 (base 16) Sontex SA
rue de la gare
sonceboz Bern 2605
CH

10-40-F3 (hex) Apple, Inc.
1040F3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

44-28-A3 (hex) Jiangsu fulian Communication Technology Co., Ltd.
4428A3 (base 16) Jiangsu fulian Communication Technology Co., Ltd.
The south of lanling road, yongan new district
Danyang Jiangsu 212300
CN

10-C5-95 (hex) Lenovo
10C595 (base 16) Lenovo
1009 Think Place
Morrisvilee NC 27560
US

44-E6-6E (hex) Apple, Inc.
44E66E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C0-E8-62 (hex) Apple, Inc.
C0E862
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F4-06-16 (hex) Apple, Inc.
F40616 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

58-6B-14 (hex) Apple, Inc.
586B14 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

BC-B8-63 (hex) Apple, Inc.
BCB863 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

7C-BC-84 (hex) IEEE Registration Authority
7CBC84 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554

US

78-0E-D1 (hex) TRUMPF Werkzeugmaschinen GmbH+Co.KG
780ED1 (base 16) TRUMPF Werkzeugmaschinen GmbH+Co.KG
Johann-Maus-Straße 2
Ditzingen 71254
DE

F8-2F-08 (hex) Molex CMS
F82F08 (base 16) Molex CMS
2222 Wellington Court
Lisle IL 60532
US

64-F8-1C (hex) Huawei Technologies Co., Ltd.
64F81C (base 16) Huawei Technologies Co., Ltd.
Bantian, Longgang District,
Shenzhen, 518129, P.R.C
Shenzhen GUANGDONG Province 518000
CN

70-BB-E9 (hex) Xiaomi Communications Co Ltd
70BBE9 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

00-D0-2D (hex) Resideo
00D02D (base 16) Resideo
2 Corporate Center Dr.
Melville NY 11747
US

08-35-1B (hex) Shenzhen Jialihua Electronic Technology Co., Ltd
08351B (base 16) Shenzhen Jialihua Electronic Technology Co., Ltd
Building 26,Xin'e Industrial Area,E'gongling Village,Pinghu Town,Longgang District
Shenzhen Guangdong 518111
CN

AC-15-85 (hex) silergy corp
AC1585 (base 16) silergy corp
Oleander Way802 West Bay RoadP.O. BOX 32052
Grand Cayman KYI-1208Cayman Islands 32052
US

AC-50-93 (hex) Magna Electronics Europe GmbH & Co. OHG
AC5093 (base 16) Magna Electronics Europe GmbH & Co. OHG
Kurfürst-Eppstein-Ring 9

Sailauf
Bavaria 63877
DE

9C-C8-FC (hex) ARRIS Group, Inc.
9CC8FC (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

2C-1C-F6 (hex) Alien Green LLC
2C1CF6 (base 16) Alien Green LLC
A. Kazbegi Ave., No24g, apt 227
Tbilisi Tbilisi 0160
GE

3C-8D-20 (hex) Google, Inc.
3C8D20 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

60-1D-91 (hex) Motorola Mobility LLC, a Lenovo Company
601D91 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

D4-C9-4B (hex) Motorola Mobility LLC, a Lenovo Company
D4C94B (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

0C-FE-5D (hex) IEEE Registration Authority
0CFE5D (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

80-69-40 (hex) LEXAR CO.,LIMITED
806940
(base 16) LEXAR CO.,LIMITED
10TH FLOOR,CHINA AEROSPACE CENTRE,143 HOI BUN ROAD,KWUN TONG,KOWLOON, HONG KONG
HONG KONG 999077
HK

B0-7E-11 (hex) Texas Instruments
B07E11 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

50-A0-A4 (hex) Nokia
50A0A4 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

10-98-C3 (hex) Murata Manufacturing Co., Ltd.
1098C3 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

10-C7-53 (hex) Qingdao Intelligent&Precise Electronics Co.,Ltd.
10C753 (base 16) Qingdao Intelligent&Precise Electronics Co.,Ltd.
No.218 Qianwangang Road
Qingdao Shangdong 266510
CN

F4-95-1B (hex) Hefei Radio Communication Technology Co., Ltd
F4951B (base 16) Hefei Radio Communication Technology Co., Ltd
No.108, YinXing Road, High-tech Development Zone
Hefei Anhui 230088
CN

6C-38-45
(hex) Fiberhome Telecommunication Technologies Co.,LTD
6C3845 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

D0-B6-0A (hex) Xingluo Technology Company Limited
D0B60A (base 16) Xingluo Technology Company Limited
28F, Building A, Aerospace Science And Technology Square, Nanshan District
ShenZhen GuangDong 518067
CN

04-92-26 (hex) ASUSTek COMPUTER INC.
049226 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

E8-AD-A6 (hex) Sagemcom Broadband SAS
E8ADA6 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

0C-1C-19 (hex) LONGCONN ELECTRONICS(SHENZHEN) CO.,LTD
0C1C19 (base 16) LONGCONN ELECTRONICS(SHENZHEN) CO.,LTD
Building B, No. 42 Xingye Road, Phoenix First Industrial Zone, Fuyong, Baoan District
Shenzhen Guangdong 518103
CN

E0-13-B5
(hex) vivo Mobile Communication Co., Ltd.
E013B5 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

E0-79-5E (hex) Wuxi Xiaohu Technology Co.,Ltd.
E0795E (base 16) Wuxi Xiaohu Technology Co.,Ltd.
FL.2, Building A10, 777 West Jianzhu Road, Binhu District
Wuxi Jiangsu Province 214000
CN

2C-61-04 (hex) SHENZHEN FENGLIAN TECHNOLOGY CO., LTD.
2C6104 (base 16) SHENZHEN FENGLIAN TECHNOLOGY CO., LTD.
ORIENTAL CYBERPORT, HIGHTECH 6 ROAD
SHENZHEN GUANGDONG 518057
CN

BC-93-25 (hex) Ningbo Joyson Preh Car Connect Co.,Ltd.
BC9325 (base 16) Ningbo Joyson Preh Car Connect Co.,Ltd.
No. 99, Qingyi Road
Ningbo Zhejiang 315040
CN

A4-FC-77 (hex) Mega Well Limited
A4FC77 (base 16) Mega Well Limited
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

8C-85-E6 (hex) Cleondris GmbH
8C85E6
(base 16) Cleondris GmbH
Zuercherstrasse 42

Uitikon ZH 8142
CH

84-32-6F (hex) GUANGZHOU AVA ELECTRONICS TECHNOLOGY CO.,LTD
84326F (base 16) GUANGZHOU AVA ELECTRONICS TECHNOLOGY CO.,LTD
Science town luogang district guangzhou city branch bead road 232 profit people park 301, building 2
guangzhou guangdong 510000
CN

C8-9C-13 (hex) Inspiremobile
C89C13 (base 16) Inspiremobile
Rm1412, Daeryung Techno-Town, 15th, 401 , Simin-daero, Dongan-gu
Anyang-si Gyeonggi-do 14057
KR

00-B1-E3 (hex) Cisco Systems, Inc
00B1E3 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A4-11-94 (hex) Lenovo
A41194 (base 16) Lenovo
1009 Think Place
Morrisvilee NC 27560
US

90-E7-10 (hex) New H3C Technologies Co., Ltd
90E710 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

30-29-52 (hex) Hillstone
Networks Inc
302952 (base 16) Hillstone Networks Inc
North Olympic Science & Technology Park Building #20 Floor #5, SouthBaosheng
Beijing 100192
CN

00-B4-F5 (hex) DongGuan Siyoto Electronics Co., Ltd
00B4F5 (base 16) DongGuan Siyoto Electronics Co., Ltd
Hecheng Industrial District, QiaoTou Town
DongGuan City Guangdong 523520
CN

98-3B-8F (hex) Intel Corporate
983B8F (base 16) Intel Corporate

Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

54-27-8D (hex) NXP (China) Management Ltd.
54278D (base 16) NXP (China) Management Ltd.
21F, BM InterContinental Business Center, 100 Yu Tong Road
Shanghai Shanghai 200070
CN

0C-41-01 (hex) Ruichi Auto Technology (Guangzhou) Co., Ltd.
0C4101 (base 16) Ruichi Auto Technology (Guangzhou) Co., Ltd.
No. 171 Haibin Road, Nansha District, Guangzhou, China
Guangzhou Guangdong Province 511400
CN

00-B7-71 (hex) Cisco Systems, Inc
00B771
(base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

B0-AE-25 (hex) Varikorea
B0AE25 (base 16) Varikorea
#505 kolon digital tower aston, gasan, geumcheon
seoul 08502
KR

18-38-AE (hex) CONSPIN SOLUTION
1838AE (base 16) CONSPIN SOLUTION
2F, Geonwoong Bldg. 109, Gwanak-ro, Gwanak-gu
Seoul 08833
KR

04-CF-8C (hex) XIAOMI Electronics,CO.,LTD
04CF8C (base 16) XIAOMI Electronics,CO.,LTD
Xiaomi Building, No.68 Qinghe Middle Street
Haidian District Beijing 100085
CN

0C-75-12 (hex) Shenzhen Kunlun TongTai Technology Co.,Ltd.
0C7512 (base 16) Shenzhen Kunlun TongTai Technology Co.,Ltd.
Room 2401,B,Building 3,Tianan Yungu Industry Park,Gangtou community,bantian streets,Longgang District
Shenzhen Guangdong 518129
CN

40-26-19 (hex) Apple, Inc.

402619 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

6C-E8-5C (hex) Apple, Inc.
6CE85C
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E4-B2-FB (hex) Apple, Inc.
E4B2FB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

2C-CA-0C (hex) WITHUS PLANET
2CCA0C (base 16) WITHUS PLANET
1604, O'BIZTOWER, Pyeong Chon, 126, Beolmal-ro, Dongan-gu
Anyang-si Gyeonggi-do 14057
KR

80-7D-14 (hex) HUAWEI TECHNOLOGIES CO.,LTD
807D14 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

20-28-3E (hex) HUAWEI TECHNOLOGIES CO.,LTD
20283E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-91-62 (hex) Microchip Technology Inc.
049162 (base 16) Microchip Technology Inc.
2355 W. Chandler Blvd.
Chandler AZ 85224
US

F8-38-80 (hex) Apple, Inc.
F83880 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

4C-56-9D (hex) Apple, Inc.
4C569D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

38-53-9C (hex) Apple, Inc.
38539C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

44-00-49 (hex) Amazon Technologies Inc.
440049 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

2C-79-D7 (hex) Sagemcom Broadband SAS
2C79D7 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

6C-C3-74 (hex) Texas Instruments
6CC374 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

68-47-49 (hex) Texas Instruments
684749 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

F8-D9-B8 (hex) Open Mesh, Inc.
F8D9B8 (base 16) Open Mesh, Inc.
111 SW 5th Ave Ste1150
Portland OR 97204
US

7C-69-6B (hex) Atmosic Technologies
7C696B (base 16) Atmosic
Technologies
12930 Saratoga Ave, Suite B6
Saratoga CA 95070

US

5C-D2-0B (hex) Yytek Co., Ltd.
5CD20B (base 16) Yytek Co., Ltd.
No.1 Bao Sheng South Road, Room 401, Ao Bei Technology Park, Ling Zhi Center
Beijing 100192
CN

4C-12-65 (hex) ARRIS Group, Inc.
4C1265 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

50-57-9C (hex) Seiko Epson Corporation
50579C (base 16) Seiko Epson Corporation
2070 Kotobuki Koaka
Matsumoto-shi Nagano-ken 399-8702
JP

D0-03-DF (hex) Samsung Electronics Co.,Ltd
D003DF (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

10-A2-4E (hex) GOLD3LINK ELECTRONICS CO., LTD
10A24E (base 16) GOLD3LINK ELECTRONICS CO., LTD
No.90,Sec.1,Com Lin Rd,Taipei 114,Taiwan,R.O.C
Taipei Taiwan 114
TW

C4-23-A2 (hex) PT. Emsonic Indonesia
C423A2 (base 16) PT. Emsonic Indonesia
Jl.Timor
Blok E5, MM2100 Industrial Town Jatiwangi Cikarang Barat
Bekasi Jawa Barat 17530
ID

B4-CB-57 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
B4CB57 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

B0-BE-76 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
B0BE76 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan

Shenzhen Guangdong 518057
CN

4C-1B-86 (hex) Arcadyan Corporation
4C1B86 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

00-50-0C (hex) e-Tek Labs, Inc.
00500C (base 16) e-Tek Labs, Inc.
1057 EAST HENRIETTA RD.
ROCHESTER NY 14623
US

48-5F-99 (hex) Cloud Network Technology (Samoa) Limited
485F99 (base 16) Cloud Network Technology (Samoa) Limited
Building D21,No.1, East
Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

88-F7-BF (hex) vivo Mobile Communication Co., Ltd.
88F7BF (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

E8-6A-64 (hex) LCFC(HeFei) Electronics Technology co., ltd
E86A64 (base 16) LCFC(HeFei) Electronics Technology co., ltd
YunGu Road 3188-1
Hefei Anhui 230000
CN

D8-7D-7F (hex) Sagemcom Broadband SAS
D87D7F (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

88-34-FE (hex) Bosch Automotive Products (Suzhou) Co. Ltd
8834FE (base 16) Bosch Automotive Products (Suzhou) Co. Ltd
No. 455 Xing Long Street,Suzhou Industrial Park,Suzhou P.R., 215021 China
Suzhou Jiangsu 215021
CN

58-B5-68 (hex) SECURITAS DIRECT ESPAÑA, SAU
58B568 (base 16) SECURITAS DIRECT ESPAÑA, SAU

C/ Priégola, 2
Pozuelo
de Alarcon Madrid 28224
ES

EC-C4-0D (hex) Nintendo Co.,Ltd
ECC40D (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

84-89-EC (hex) IEEE Registration Authority
8489EC (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

00-07-3A (hex) INVENTEL
00073A (base 16) INVENTEL
35, rue Toumefort
000 0000
FR

00-26-6C (hex) INVENTEC CORPORATION
00266C (base 16) INVENTEC CORPORATION
Inventec Building, 66 Hou-Kang Street Shih-Lin District,
Taipei 111
TW

00-8C-FA (hex) INVENTEC CORPORATION
008CFA (base 16) INVENTEC CORPORATION
No. 255, Jen-Ho Road Sec. 2, 33547,
Tachi Taoyuan 33547
TW

48-4A-E9 (hex) Hewlett Packard Enterprise
484AE9 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

84-6A-66 (hex) Sumitomo Kizai Co.,Ltd.
846A66 (base 16) Sumitomo Kizai Co.,Ltd.
1-45-1higashiikebukuro
tosimaku
tokyo 170-0013
JP

5C-FB-7C (hex) Shenzhen Jingxun Software Telecommunication Technology Co.,Ltd
5CFB7C (base 16) Shenzhen Jingxun Software Telecommunication Technology Co.,Ltd
3/F,A5 Building Zhiyuan Community No.1001,Xueyuan Road Nanshan District
Shenzhen Guangdong 518055
CN

FC-03-9F (hex) Samsung Electronics Co.,Ltd
FC039F (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

88-10-8F (hex) HUAWEI TECHNOLOGIES CO.,LTD
88108F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F4-63-1F (hex) HUAWEI TECHNOLOGIES CO.,LTD
F4631F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A4-9B-4F (hex) HUAWEI TECHNOLOGIES CO.,LTD
A49B4F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2
Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-05-1A (hex) 3COM EUROPE LTD
00051A (base 16) 3COM EUROPE LTD
3COM CENTRE
vvvvv UNITED KINGDOM
GB

08-00-4E (hex) 3COM EUROPE LTD
08004E (base 16) 3COM EUROPE LTD
3COM CENTRE
vvvvv UNITED KINGDOM
GB

00-30-1E (hex) 3COM EUROPE LTD
00301E (base 16) 3COM EUROPE LTD
BOUNDARY WAY
vvvvv UNITED KINGDOM
GB

00-50-04 (hex) 3COM
005004 (base 16) 3COM
5400 BAYFRONT PLAZA
SANTA CLARA CA 95052
US

00-01-03 (hex) 3COM
000103 (base 16) 3COM
5400 BAYFRONT PLAZA
SANTA CLARA CA 95052
US

02-C0-8C (hex) 3COM
02C08C (base 16) 3COM
5400 BAYFRONT PLAZA
SANTA CLARA CA 95052
US

7C-24-0C (hex) Telechips, Inc.
7C240C (base 16) Telechips, Inc.
19F~23F,Luther Bldg.42, Olympic-ro 35da-gil, Songpa-gu,
Seoul Seoul 05510
KR

00-20-3D (hex) Honeywell Environmental & Combustion
Controls
00203D (base 16) Honeywell Environmental & Combustion Controls
1985 Douglas Drive
Golden Valley MN 55422
US

00-40-84 (hex) Honeywell
004084 (base 16) Honeywell
512 Virginia Dr Ste A
Fort Washington PA 19034
US

A0-95-0C (hex) China Mobile IOT Company Limited
A0950C (base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area
Chongqing Chongqing 401336
CN

2C-15-E1 (hex) Phicomm (Shanghai) Co., Ltd.
2C15E1 (base 16) Phicomm (Shanghai) Co., Ltd.
3666 SiXian Rd.,Songjiang District
Shanghai Shanghai 201616

CN

18-D7-17 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
18D717 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

80-B6-24 (hex) IVS
80B624 (base 16) IVS
807-809 , Woorim E-biz center, 35, Gwangnaru-ro 6-gil
Seoul Seongdong-gu 04799
KR

DC-F5-05 (hex) AzureWave
Technology Inc.
DCF505 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

CC-F0-FD (hex) China Mobile (Hangzhou) Information Technology Co., Ltd.
CCF0FD (base 16) China Mobile (Hangzhou) Information Technology Co., Ltd.
No. 1600 Yuhangtang Road, Wuchang Street, Yuhang District, Hangzhou, Zhejiang
Hangzhou Zhejiang 310000
CN

00-60-87 (hex) KANSAI ELECTRIC CO., LTD.
006087 (base 16) KANSAI ELECTRIC CO., LTD.
6-14-9 MIDORII, ASAMINAMI-KU
HIROSHIMA 731-01
JO

98-AE-71 (hex) VVDN Technologies Pvt Ltd
98AE71 (base 16) VVDN Technologies Pvt Ltd
B-22, Sec-34 , Info-city -I
Gurugram Haryana 122001
IN

1C-1B-B5 (hex) Intel Corporate
1C1BB5 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D4-74-1B (hex) Beijing HuaDa ZhiBao Electronic System Co.,Ltd.
D4741B (base 16) Beijing HuaDa ZhiBao Electronic System Co.,Ltd.
No.1

Gaojiayuan,Chaoyang District,Beijing,China
Beijing Beijing 100015
CN

00-57-C1 (hex) LG Electronics (Mobile Communications)
0057C1 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

DC-F7-19 (hex) Cisco Systems, Inc
DCF719 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A4-D9-90 (hex) Samsung Electronics Co.,Ltd
A4D990 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

30-D1-6B (hex) Liteon Technology Corporation
30D16B (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

00-80-EB (hex) COMPCONTROL B.V.
0080EB (base 16) COMPCONTROL B.V.
STRATUMSED K31
THE
NL

AC-6E-1A (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
AC6E1A (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT
B116,B118,A211-A213,B201-B213,A311-A313,B411-413,BF08-09
Nanshan Medical Instrument Industry Park,
Shenzhen Guangdong 518067
CN

30-D3-2D (hex) devolo AG
30D32D (base 16) devolo AG
Charlottenburger Allee 67
Aachen NRW 52068
DE

BC-F2-AF (hex) devolo AG

BCF2AF (base 16) devolo AG
Charlottenburger Allee 67
Aachen NRW 52068
DE

E0-AF-4F (hex) Deutsche Telekom AG
E0AF4F (base 16) Deutsche Telekom AG
Friedrich-Ebert-Allee 140
Bonn 53113
DE

68-A8-E1 (hex) Wacom Co.,Ltd.
68A8E1 (base 16) Wacom Co.,Ltd.
Sumitomo Fudosan Shinjuku Grand Tower 31F,8-17-1
Nishi-shinjuku,Shinjuku-ku Tokyo 160-6131
JP

14-48-02 (hex) THE YEOLRIM Co.,Ltd.
144802 (base 16) THE YEOLRIM Co.,Ltd.
D-311,H Business Park,26,Beobwon-ro 9-gil Songpa-gu,Seoul Korea
Seoul 05836
KR

00-02-EB (hex) Pico Communications
0002EB (base 16) Pico Communications
20085 Stevens Creek Blvd.
Cupertino CA 95014
US

34-2E-B6 (hex) HUAWEI
TECHNOLOGIES CO.,LTD
342EB6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

AC-92-32 (hex) HUAWEI TECHNOLOGIES CO.,LTD
AC9232 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-15-55 (hex) DFM GmbH
001555 (base 16) DFM GmbH
Lahrer Strasse 6
Lahr Baden-Württemberg 77933
US

00-0F-B0 (hex) Compal Electronics INC.
000FB0 (base 16) Compal Electronics INC.
No.8 , Nandong Road , PingZhen Dist.
Taoyuan Taiwan 32455
TW

00-02-3F (hex) Compal Electronics INC.
00023F (base 16) Compal Electronics INC.
No.8 , Nandong Road , PingZhen Dist.
Taoyuan Taiwan 32455
TW

DC-8B-28 (hex) Intel Corporate
DC8B28 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B8-69-F4 (hex) Routerboard.com
B869F4 (base 16) Routerboard.com
Mikrotikls
SIA
Riga Riga LV1009
LV

BC-30-D9 (hex) Arcadyan Corporation
BC30D9 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

24-D7-6B (hex) Syntronic AB
24D76B (base 16) Syntronic AB
Utmarksvägen 33c
Gävle 80291
SE

40-31-3C (hex) XIAOMI Electronics,CO.,LTD
40313C (base 16) XIAOMI Electronics,CO.,LTD
Xiaomi Building, No.68 Qinghe Middle Street
Haidian District Beijing 100085
CN

28-3A-4D (hex) Cloud Network Technology (Samoa) Limited
283A4D (base 16) Cloud Network Technology (Samoa) Limited
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

B8-7C-6F (hex) NXP (China) Management Ltd.
B87C6F (base 16) NXP (China) Management Ltd.
21F, BM InterContinental Business Center, 100 Yu Tong Road
Shanghai Shanghai 200070
CN

30-5D-A6 (hex) ADVALY SYSTEM Inc.
305DA6
(base 16) ADVALY SYSTEM Inc.
7 KITA2 NISHI2 CYUO-KU
SAPPORO HOKKAIDO 060-0002
JP

04-79-B7 (hex) Texas Instruments
0479B7 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

C0-D0-FF (hex) China Mobile IOT Company Limited
C0D0FF (base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area
Chongqing Chongqing 401336
CN

88-DF-9E (hex) New H3C Technologies Co., Ltd
88DF9E (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

2C-7C-E4 (hex) Wuhan Tianyu Information Industry Co., Ltd.
2C7CE4 (base 16) Wuhan Tianyu Information Industry Co., Ltd.
HUST Industry Park, East-Lake Development Zone
Wuhan Hubei 430223
CN

C4-FE-E2 (hex) AMICCOM Electronics Corporation
C4FEE2 (base 16) AMICCOM Electronics Corporation
10F, No.18, Taiyuan St., Zhubei City
Hsinchu Country Taiwan 30265
TW

E0-12-83 (hex)
Shenzhen Fanzhuo Communication Technology Co., Lt
E01283 (base 16) Shenzhen Fanzhuo Communication Technology Co., Lt
No.1003 Kesi Road, Hi-Tech Park,

Shenzhen Nanshan District 2602-2603
CN

84-C9-C6 (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
84C9C6 (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT
SONGGANG
SHENZHEN GUANGDONG 518105
CN

44-4B-5D (hex) GE Healthcare
444B5D (base 16) GE Healthcare
Kuortaneenkatu 2
Helsinki 00510
FI

FC-4A-E9 (hex) Castlenet Technology Inc.
FC4AE9 (base 16) Castlenet Technology Inc.
5F., No. 10, Daye Rd., Beitou Dist.
Taipei City 112030
TW

1C-75-08 (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
1C7508 (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO. 25, THE 3RD Street KUNSHAN EXPORT PROCESSING ZONE
KUNSHAN SUZHOU 215300
CN

00-1B-38 (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
001B38 (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.

NO. 25, THE 3RD AVENUE
KUNSHAN CITY SUZHOU PROVINCE 215300
CN

00-23-5A (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
00235A (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO 25, The 3rd street,
KuanShan SUZHOU 215300
CN

FC-45-96 (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
FC4596 (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO. 25, THE 3RD Street KUNSHAN EXPORT PROCESSING ZON
KUNSHAN SUZHOU 215300
CN

A0-E5-34 (hex) Stratec Biomedical AG
A0E534 (base 16) Stratec Biomedical AG

Gewerbestrasse 37
Birkenfeld Baden Wuertemberg 75217
DE

D4-69-A5 (hex) Miura Systems Ltd.
D469A5 (base 16) Miura Systems Ltd.
Axis 40, Oxford Road, Stokenchurch
High Wycombe Buckinghamshire HP143SX
GB

88-B6-6B (hex) easynetworks
88B66B (base 16) easynetworks
Rd kaituo 1# kaituohuiyuan B 1020, shangdi
Beijing 100084
CN

24-F5-7E (hex) HWH CO., LTD.
24F57E (base 16) HWH
CO., LTD.
102-708, Digital Empire2, Sin-dong, Youngtong-gu
Suwon-si Gyeonggi-do 443-734
KR

8C-A0-48 (hex) Beijing NeTopChip Technology Co.,LTD
8CA048 (base 16) Beijing NeTopChip Technology Co.,LTD
309,Intergration Building Olympic Center, No.1 An Ding Road,Chao Yang District,,
Beijing 100029
CN

24-D3-F2 (hex) zte corporation
24D3F2 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

8C-81-26 (hex) ARCOM
8C8126 (base 16) ARCOM
ZAC de la Loyère
FRAGNES LA LOYERE 71530
FR

D4-7C-44 (hex) IEEE Registration Authority
D47C44 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

7C-96-D2 (hex) Fihonest communication co.,Ltd

7C96D2 (base 16) Fihonest communication co.,Ltd
The Frist Building ,ShangKeng Industrial Zone, Changping Town
Dongguan Guangdong 523560
CN

A0-CF-5B (hex) Cisco
Systems, Inc
A0CF5B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-24-21 (hex) MICRO-STAR INT'L CO., LTD.
002421 (base 16) MICRO-STAR INT'L CO., LTD.
No.69, Li-De St
Taipei Hsien 235
TW

00-60-D1 (hex) CASCADE COMMUNICATIONS
0060D1 (base 16) CASCADE COMMUNICATIONS
6 TECHNOLOGY PARK DRIVE
WESTFORD MA 01886
US

80-5E-4F (hex) FN-LINK TECHNOLOGY LIMITED
805E4F (base 16) FN-LINK TECHNOLOGY LIMITED
A Building,HuiXin industial park,No 31, YongHe road, Fuyong town, Bao'an District
SHENZHEN GUANGDONG 518100
CN

78-0C-F0 (hex) Cisco Systems, Inc
780CF0 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

0C-8C-24 (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
0C8C24 (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268 Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

8C-6D-77 (hex) HUAWEI
TECHNOLOGIES CO.,LTD
8C6D77 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E8-C5-7A (hex) Ufispace Co., LTD.
E8C57A (base 16) Ufispace Co., LTD.
9F., No. 81 Jhongcheng Rd., Tucheng Dist.,
New Taipei 23674
TW

30-24-32 (hex) Intel Corporate
302432 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D0-C5-D8 (hex) LATECOERE
D0C5D8 (base 16) LATECOERE
135 Rue de Périole, BP25211
Toulouse Cedex 5 31 Haute-Garonne 31079
FR

70-54-B4 (hex) Vestel Elektronik San ve Tic. A.S.
7054B4 (base 16) Vestel Elektronik San ve Tic. A.S.
Organize san
Manisa Turket 45030
TR

20-A6-0C (hex) Xiaomi Communications Co Ltd
20A60C (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

DC-E8-38
(hex) CK Telecom (Shenzhen) Limited
DCE838 (base 16) CK Telecom (Shenzhen) Limited
Floor 9th, Building 4C,Software Industry Base, Xuefu Road, Hi-Tech Park, Nanshan Dist.
Shenzhen Guangdong 518057
CN

A8-D4-98 (hex) Avira Operations GmbH & Co. KG
A8D498 (base 16) Avira Operations GmbH & Co. KG
Kaplaneiweg 1
Tettnang Baden-Wuerttermberg 88069
DE

60-D0-2C (hex) Ruckus Wireless
60D02C (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089

US

D0-58-FC (hex) SKY UK LIMITED
D058FC (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

50-59-67 (hex) Intent Solutions Inc
505967 (base 16) Intent Solutions Inc
730 Peachtree St NE, Suite 550
ATLANTA GA 30308
US

00-06-80 (hex) Card Access, Inc.
000680 (base 16) Card Access, Inc.
11778 S. Election Rd
Salt Lake City UT 80420
US

48-8A-D2 (hex) MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
488AD2
(base 16) MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
Mid-Fourth Flr.,Building 28,Cui Xi Fourth Road,Ke Yuan West,Nanshan
Shenzhen Guangdong 518057
CN

FC-A6-CD (hex) Fiberhome Telecommunication Technologies Co.,LTD
FCA6CD (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

44-C8-74 (hex) China Mobile Group Device Co.,Ltd.
44C874 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

3C-57-6C (hex) Samsung Electronics Co.,Ltd
3C576C (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

84-17-66 (hex) WEIFANG GOERTEK ELECTRONICS CO.,LTD
841766 (base 16) WEIFANG GOERTEK ELECTRONICS CO.,LTD
Gaoxin 2 Road,Free Trade Zone,Weifang,Shandong,261205,P.R.China

Wei Fang Shan Dong
CN

2C-4D-79 (hex) WEIFANG GOERTEK ELECTRONICS CO.,LTD
2C4D79 (base 16) WEIFANG
GOERTEK ELECTRONICS CO.,LTD
No.268 Dongfang Road
Weifang Shandong 261000
CN

14-57-9F (hex) HUAWEI TECHNOLOGIES CO.,LTD
14579F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B4-43-26 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B44326 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

38-56-B5 (hex) Peerbridge Health Inc
3856B5 (base 16) Peerbridge Health Inc
3 Columbus Circle 15th Fl
New York NY 10019
US

00-0C-42 (hex) Routerboard.com
000C42 (base 16) Routerboard.com
Pernavas 46
Riga LV-1009
LV

00-26-BD (hex) JTEC Card & Communication Co., Ltd
0026BD (base 16) JTEC Card & Communication Co., Ltd
Dabo Bldg, 4F, 61-1, Gyesu-dong, Sosa-gu
Bucheon Gyunggi-do 422-070
KR

04-AB-18 (hex) ELECOM CO.,LTD.
04AB18 (base 16) ELECOM
CO.,LTD.
2F Kudan First Place Bldg. 4-1-28
Chiyoda-ku Kudan Kita 102-0073
JP

F8-5C-4D (hex) Nokia

F85C4D (base 16) Nokia
1 Robbins Road
Westford MA 01886-4113
US

2C-58-4F (hex) ARRIS Group, Inc.
2C584F (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

E4-EA-83 (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
E4EA83 (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT
SONGGANG
SHENZHEN GUANGDONG 518105
CN

74-EC-42 (hex) Fiberhome Telecommunication Technologies Co.,LTD
74EC42 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

18-66-C7 (hex) Shenzhen Libre Technology Co., Ltd
1866C7 (base 16) Shenzhen Libre Technology Co., Ltd
634, Tian Hui Building #B, You Song Lu, Long Hua District
Shenzhen 511700
CN

5C-B3-F6 (hex) Human, Incorporated
5CB3F6 (base 16) Human, Incorporated
3100 Airport Way S,
25-512
Seattle WA 98134
US

2C-48-35 (hex) IEEE Registration Authority
2C4835 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

48-2A-E3 (hex) Wistron InfoComm(Kunshan)Co.,Ltd.
482AE3 (base 16) Wistron InfoComm(Kunshan)Co.,Ltd.
168# First Avenue,Kunshan Integrated Free Trade Zone,Kunshan,Jiangsu,China
Kunshan Jiangsu 215300
CN

70-9F-A9 (hex) TECNO MOBILE LIMITED
709FA9 (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

0C-01-DB (hex) Infinix mobility limited
0C01DB (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

08-C5-E1 (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
08C5E1 (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T.
Bangsamak SEMTHAI, WELLGROW INDUSTRIAL ESTATE
Bangpakong Chachoengsao 24180
TH

74-C1-4F (hex) HUAWEI TECHNOLOGIES CO.,LTD
74C14F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B0-EB-57 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B0EB57 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

78-D2-94 (hex) NETGEAR
78D294 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

A8-5B-6C (hex) Robert Bosch Gmbh, CM-CI2
A85B6C (base 16) Robert Bosch Gmbh, CM-CI2
Renningen
Stuttgart D-70465
DE

C8-B1-EE (hex) Qorvo
C8B1EE (base 16) Qorvo
1 Changi Business Park Crescent, Avenue 1, #04-01

NA 486058
SG

18-69-DA (hex) China Mobile Group Device Co.,Ltd.
1869DA (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng
District
Beijing 100053
CN

00-FC-BA (hex) Cisco Systems, Inc
00FCBA (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

4C-C0-0A (hex) vivo Mobile Communication Co., Ltd.
4CC00A (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

9C-E8-2B (hex) vivo Mobile Communication Co., Ltd.
9CE82B (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

70-79-B3 (hex) Cisco Systems, Inc
7079B3 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

14-9B-2F (hex) JiangSu ZhongXie Intelligent Technology co., LTD
149B2F (base 16) JiangSu ZhongXie Intelligent Technology co., LTD
Room 201,building 15, 16,FengJi set avenue (C08),YuHua district economic development zone ,NanJing city,JiangSu province,China,PRC.
NanJing JiangSu 210000
CN

38-35-FB
(hex) Sagemcom Broadband SAS
3835FB (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

9C-7F-57 (hex) UNIC Memory Technology Co Ltd
9C7F57 (base 16) UNIC Memory Technology Co Ltd
15/F, Building B, Truth Plaza, No.7 Zhichun Road
Beijing Haidian District 102208
CN

B4-E0-1D (hex) CONCEPTION ELECTRONIQUE
B4E01D (base 16) CONCEPTION ELECTRONIQUE
3 boulevard de l'europe
NEUFCHATEL EN BRAY 76270
FR

1C-00-42 (hex) NARI Technology Co., Ltd.
1C0042 (base 16) NARI Technology Co., Ltd.
NO.19 Chengxin Avenue, Nanjing
Nanjing 211106
CN

A0-75-EA (hex) BoxLock, Inc.
A075EA (base 16) BoxLock, Inc.
931 Monroe Dr Ste A 102-405
Atlanta GA 30308
US

F0-4C-D5 (hex) Maxlinear, Inc
F04CD5 (base 16) Maxlinear, Inc
5966 La Place Ct. Ste# 100
Carlsbad CA 92008
US

00-CB-B4 (hex) SHENZHEN ATEKO PHOTOELECTRICITY
CO.,LTD
00CBB4 (base 16) SHENZHEN ATEKO PHOTOELECTRICITY CO.,LTD
4-5F,E1 Building,TCL International E City,No.1001 Zhongshanyuan Road,Nanshan District,Shenzhen
SHENZHEN GUANGDONG 518052
CN

48-DD-9D (hex) ITEL MOBILE LIMITED
48DD9D (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

E0-BA-B4 (hex) Arrcus, Inc
E0BAB4 (base 16) Arrcus, Inc
2077 Gateway Pl, Suite 250,
San Jose CA 95110
US

80-7D-3A (hex) Espressif Inc.
807D3A (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

00-01-AE (hex) Trex Enterprises
0001AE (base 16) Trex Enterprises
590 Lipoa Parkway
Kihei HI 96753
US

00-E0-09 (hex) Stratus Technologies
00E009 (base 16) Stratus Technologies
5 Mill and Main Place, Suite 500
Maynard MA 01754
US

A0-B0-45
(hex) Halong Mining
A0B045 (base 16) Halong Mining
13/F TCL Tower, No.8 Tai Chung Road
Tsuen Wan New Territories Tsuen Wan New Territories
HK

EC-AF-97 (hex) GIT
ECAF97 (base 16) GIT
05655, GIT Bldg., 87, Macheon-ro, Songpa-gu, Seoul, Korea
Songpa-gu Seoul 05655
KR

D4-FC-13 (hex) Fiberhome Telecommunication Technologies Co.,LTD
D4FC13 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

70-1D-08 (hex) 99IOT Shenzhen co.,ltd
701D08 (base 16) 99IOT Shenzhen co.,ltd
609C north block, Cangsong Building, Tairan Seven Road, Futian District
Shenzhen Guangdong 518000
CN

44-34-A7 (hex) ARRIS Group, Inc.
4434A7 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121

US

3C-E1-A1 (hex) Universal Global Scientific Industrial Co., Ltd.
3CE1A1 (base 16) Universal Global Scientific Industrial Co., Ltd.
141, Lane 351,
Taiping Road, Sec.1,Tsao Tuen
Nan-Tou Taiwan 54261
TW

F8-98-EF (hex) HUAWEI TECHNOLOGIES CO.,LTD
F898EF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

58-F9-87 (hex) HUAWEI TECHNOLOGIES CO.,LTD
58F987 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

68-CA-E4 (hex) Cisco Systems, Inc
68CAE4 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

78-1D-4A (hex) zte corporation
781D4A (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

00-10-27 (hex) L-3 COMMUNICATIONS EAST
001027 (base 16) L-3 COMMUNICATIONS EAST
ONE FEDERAL STREET - A&E-3ES
CAMDEN NJ 08102
US

58-9B-0B (hex) Shineway Technologies, Inc.
589B0B (base 16) Shineway Technologies, Inc.
Floor
5, Huanxing Building
Beijing 100191
CN

D8-16-0A (hex) Nippon Electro-Sensory Devices
D8160A (base 16) Nippon Electro-Sensory Devices

Itachibori 2-5-12
Nishi-ku Osaka 550-0012
JP

10-C0-7C (hex) Blu-ray Disc Association
10C07C (base 16) Blu-ray Disc Association
4444 Riverside Drive #103
Burbank California 91505
US

E4-B0-21 (hex) Samsung Electronics Co.,Ltd
E4B021 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

9C-E8-95 (hex) New H3C Technologies Co., Ltd
9CE895 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

00-58-3F (hex) PC Aquarius
00583F (base 16) PC Aquarius
Comcity Office Park, Kievskoe shosse, est.6, bld. 1, Rumyantsevo, Moscow, 108811, RF
Moscow 108811
RU

90-3D-68 (hex) G-Printec, Inc.
903D68 (base 16) G-Printec, Inc.
Kawasaki Tech Center 5F,
580-16, Horikawacho
Saiwai-ku, Kawasaki-shi Kanagawa 212-0013
JP

10-94-BB (hex) Apple, Inc.
1094BB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A8-F5-AC (hex) HUAWEI TECHNOLOGIES CO.,LTD
A8F5AC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

58-BA-D4 (hex) HUAWEI TECHNOLOGIES CO.,LTD

58BAD4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

BC-26-43 (hex) Elprotronic Inc.
BC2643 (base 16) Elprotronic Inc.
35 Austin Rumble Crt.
King City ON L7B0B2
CA

04-E2-29 (hex) Qingdao Haier Technology Co.,Ltd
04E229 (base 16) Qingdao Haier Technology Co.,Ltd
Building A01,Haier Information Park, No.1 Haier Road,
Qingdao Shandong 266101
CN

74-12-BB (hex) Fiberhome Telecommunication Technologies Co.,LTD
7412BB (base 16) Fiberhome
Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

34-8B-75 (hex) LAVA INTERNATIONAL(H.K) LIMITED
348B75 (base 16) LAVA INTERNATIONAL(H.K) LIMITED
UNIT L 1/F MAU LAM COMM BLDG 16-18 MAU LAM ST, JORDAN KL, HK
Hong kong 999077
CN

20-47-DA (hex) Xiaomi Communications Co Ltd
2047DA (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

00-BE-3B (hex) HUAWEI TECHNOLOGIES CO.,LTD
00BE3B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

7C-A1-77 (hex) HUAWEI TECHNOLOGIES CO.,LTD
7CA177 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

24-2E-02 (hex) HUAWEI TECHNOLOGIES CO.,LTD
242E02 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2
Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

78-B6-EC (hex) Scuf Gaming International LLC
78B6EC (base 16) Scuf Gaming International LLC
3970 Johns Creek Court Suite 325 Suwanee
Atlanta GA 30024
US

80-35-C1 (hex) Xiaomi Communications Co Ltd
8035C1 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

08-DF-CB (hex) Systrome Networks
08DFCB (base 16) Systrome Networks
Sohna Road
Gurgaon Haryana 122018
IN

A4-93-3F (hex) HUAWEI TECHNOLOGIES CO.,LTD
A4933F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

34-E8-94 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
34E894 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen
Guangdong 518057
CN

28-AC-9E (hex) Cisco Systems, Inc
28AC9E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F8-6F-C1 (hex) Apple, Inc.
F86FC1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

28-FF-3C (hex) Apple, Inc.
28FF3C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-99-B6 (hex) Apple, Inc.
F099B6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

88-E9-FE (hex) Apple, Inc.
88E9FE (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

38-89-2C (hex) Apple, Inc.
38892C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

74-9E-AF (hex) Apple, Inc.
749EAF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

94-BF-2D (hex) Apple, Inc.
94BF2D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

58-B3-FC
(hex) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
58B3FC (base 16) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
Bldg56A,6/F,Baotian Rd3,Xixiang Town,Baoan District,
Shenzhen Guangdong 518000
CN

24-29-FE (hex) KYOCERA Corporation
2429FE (base 16) KYOCERA Corporation
30 Hoji

Kitami, Hokkaido 099-1595
JP

7C-49-EB (hex) XIAOMI Electronics,CO.,LTD
7C49EB (base 16) XIAOMI Electronics,CO.,LTD
Xiaomi Building, No.68 Qinghe Middle Street
Haidian District Beijing 100085
CN

C4-33-06 (hex) China Mobile Group Device Co.,Ltd.
C43306 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

A8-36-7A (hex) frogblue TECHNOLOGY GmbH
A8367A (base 16) frogblue TECHNOLOGY GmbH
Luxemburger Straße 6
Kaiserslautern Rheinland-Pfalz 67657
DE

98-45-62 (hex) Shanghai Baud Data Communication Co.,Ltd.
984562 (base 16) Shanghai Baud Data Communication Co.,Ltd.
NO.123
JULI RD
PUDONG ZHANGJIANG HIGH-TECH PARK SHANGHAI 201203
CN

68-D4-82 (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
68D482 (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT
SONGGANG
SHENZHEN GUANGDONG 518105
CN

10-E7-C6 (hex) Hewlett Packard
10E7C6 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

A4-33-D7 (hex) MitraStar Technology Corp.
A433D7 (base 16) MitraStar Technology Corp.
No. 6, Innovation Road II,
Hsinchu 300
TW

B0-AC-D2 (hex) zte corporation
B0ACD2 (base 16) zte corporation

12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

20-0F-70 (hex) FOXTECH
200F70 (base 16) FOXTECH
152-160 City Road
LONDON KEMP HOUSE EC1V 2NX
GB

20-2D-23 (hex) Collinear Networks Inc.
202D23 (base 16) Collinear Networks Inc.
2901 Tasman Drive
Santa Clara CA 95054
US

90-83-4B (hex) BEIJING YUNYI
TIMES TECHNOLOGY CO,.LTD
90834B (base 16) BEIJING YUNYI TIMES TECHNOLOGY CO,.LTD
1-411Room 19#Building No.26 Xihuan South Rd. BDA Daxing District,
BEIJING 100176
CN

18-50-2A (hex) SOARNEX
18502A (base 16) SOARNEX
NO.158, RUIHU ST., NEIHU DIST.,
TAIPEI CITY TAIWAN (R.O.C.) 11494
TW

78-8C-54 (hex) Ping Communication
788C54 (base 16) Ping Communication
Brenden 18
Appenzell Meistersrüte AI 9050
CH

B8-AF-67 (hex) Hewlett Packard
B8AF67 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

C0-98-DA (hex) China Mobile IOT Company Limited
C098DA (base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area
Chongqing Chongqing 401336
CN

C0-48-E6 (hex) Samsung Electronics Co.,Ltd

C048E6 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

88-2E-5A (hex) storONE
882E5A (base 16) storONE
POB
2660
Ra'anana
IL

00-71-47 (hex) Amazon Technologies Inc.
007147 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

00-BE-75 (hex) Cisco Systems, Inc
00BE75 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

6C-E4-DA (hex) NEC Platforms, Ltd.
6CE4DA (base 16) NEC Platforms, Ltd.
2-3 Kandatsukasamachi
Chiyodaku Tokyo 101-8532
JP

E4-C4-83 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
E4C483 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

00-1F-BA (hex) Boyoung Tech
001FBA (base 16) Boyoung Tech
Youngdeungpo-Gu Munrae3ga 84-2
Seoul 150-093
KR

DC-A3-33 (hex) Shenzhen YOUHUA Technology Co., Ltd
DCA333 (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen
Guangdong 518055
CN

18-31-BF (hex) ASUSTek COMPUTER INC.
1831BF (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

F0-0F-EC (hex) HUAWEI TECHNOLOGIES CO.,LTD
F00FEC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

AC-07-5F (hex) HUAWEI TECHNOLOGIES CO.,LTD
AC075F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

78-25-7A (hex) LEO Innovation Lab
78257A (base 16) LEO Innovation Lab
Silkegade 8
Copenhagen K Denmark 1113
DK

C8-FA-E1 (hex) ARQ Digital LLC
C8FAE1 (base 16) ARQ Digital LLC
2430 Auto Park Way
Escondido CA 92029
US

10-A4-B9 (hex) Baidu Online Network Technology (Beijing) Co., Ltd
10A4B9 (base 16) Baidu Online Network Technology (Beijing) Co., Ltd
Baidu Campus,
No.10 Shangdi 10th Street, Haidian District
Beijing 100085
CN

04-C2-41 (hex) Nokia
04C241 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

80-CE-62 (hex) Hewlett Packard
80CE62 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070

US

80-1F-12 (hex) Microchip Technology Inc.
801F12 (base 16) Microchip Technology Inc.
2355 W. Chandler Blvd.
Chandler AZ 85224
US

50-6C-BE (hex) InnosiliconTechnology Ltd
506CBE (base 16) InnosiliconTechnology Ltd
WuHan East Lake Wuhan New Technology Development Zone
Wuhan Hubei Province 430223
CN

24-7E-12 (hex) Cisco Systems, Inc
247E12 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

50-1C-B0 (hex) Cisco Systems, Inc
501CB0 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

3C-47-9B (hex) Theissen Training Systems, Inc.
3C479B (base
16) Theissen Training Systems, Inc.
1225 SE 4th Terrace
Chiefland FL 32626
US

60-6B-FF (hex) Nintendo Co.,Ltd
606BFF (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

8C-F7-10 (hex) AMPAK Technology, Inc.
8CF710 (base 16) AMPAK Technology, Inc.
No.1,Jen Ai Road Hsinchu Industrial Park, Hukou
Hsinchu Taiwan ROC. 30352
TW

04-AC-44 (hex) Holtek Semiconductor Inc.
04AC44 (base 16) Holtek Semiconductor Inc.
No.3, Creation Rd. II, Science Park

Hsinchu 300
TW

F4-DC-A5 (hex) DAWON DNS
F4DCA5 (base 16) DAWON DNS
217ho, Sauphwajiwon-dong, KETI, 226, Cheomdangwagi-ro, Buk-gu
Gwangju 61011
KR

30-7B-AC (hex) New H3C Technologies Co., Ltd
307BAC (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

78-5D-C8 (hex) LG Electronics
785DC8 (base 16) LG Electronics
222 LG-ro,
JINWI-MYEON
Pyeongtaek-si Gyeonggi-do 451-713
KR

0C-54-15 (hex) Intel Corporate
0C5415 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

3C-04-61 (hex) ARRIS Group, Inc.
3C0461 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

E8-C1-B8 (hex) Nanjing Bangzhong Electronic Commerce Limited
E8C1B8 (base 16) Nanjing Bangzhong Electronic Commerce Limited
No.22, Liuzhou East Road, High - tech Zone
Nanjing 210000
CN

D8-D7-75 (hex) Sagemcom Broadband SAS
D8D775 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

E8-33-0D (hex) Xaptec GmbH
E8330D (base 16) Xaptec GmbH

Neidenburger Str. 10
Gelsenkirchen 45897
DE

B4-A8-B9 (hex) Cisco Systems, Inc
B4A8B9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

50-DC-E7 (hex) Amazon Technologies
Inc.
50DCE7 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

64-98-29 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
649829 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

08-1D-C4 (hex) Thermo Fisher Scientific Messtechnik GmbH
081DC4 (base 16) Thermo Fisher Scientific Messtechnik GmbH
Frauenauracher Strasse 96
Erlangen 91056
DE

78-53-64 (hex) SHIFT GmbH
785364 (base 16) SHIFT GmbH
Am Gänsemarkt 6
Wabern Falkenberg Hessen 34590
DE

88-3D-24 (hex) Google, Inc.
883D24 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

38-E6-0A (hex) Xiaomi Communications Co Ltd
38E60A (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

D4-60-E3 (hex) Sercomm Corporation.

D460E3
(base 16) Sercomm Corporation.
3F,No.81,Yu-Yih Rd.,Chu-Nan Chen
Miao-Lih Hsuan 115
TW

40-CB-C0 (hex) Apple, Inc.
40CBC0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C4-61-8B (hex) Apple, Inc.
C4618B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

08-E6-89 (hex) Apple, Inc.
08E689 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

DC-56-E7 (hex) Apple, Inc.
DC56E7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-5D-73 (hex) Cisco Systems, Inc
005D73 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

60-6D-3C (hex) Luxshare Precision Industry Company Limited
606D3C (base 16) Luxshare Precision Industry Company Limited
Floor 2, Block A, Sanyo New Industrial Area
West Haoyi Community, Shajing Subdistrict Office Bao'an District, Shenzhen, Guangdong 523000
CN

00-27-90
(hex) Cisco Systems, Inc
002790 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

DC-BF-E9 (hex) Motorola Mobility LLC, a Lenovo Company
DCBFE9 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

CC-4D-38 (hex) Carnegie Technologies
CC4D38 (base 16) Carnegie Technologies
9737 Great Hills Trail #260
Austin TX 78759
US

CC-6E-A4 (hex) Samsung Electronics Co.,Ltd
CC6EA4 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

5C-5F-67 (hex) Intel Corporate
5C5F67 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

80-3A-59 (hex) AT&T
803A59 (base 16) AT&T
1025 Lenox Park Blvd
Atlanta GA 30319
US

F8-B5-68 (hex) IEEE Registration Authority
F8B568 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway
NJ 08554
US

2C-6B-7D (hex) Texas Instruments
2C6B7D (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

98-29-A6 (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
9829A6 (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO. 25, THE 3RD Street KUNSHAN EXPORT PROCESSING ZONE
KUNSHAN SUZHOU 215300

CN

58-8D-64 (hex) Xi'an Clevbee Technology Co.,Ltd
588D64 (base 16) Xi'an Clevbee Technology Co.,Ltd
FLOOR 7, TOWER B, POSCO CENTER, NO. 13 ZONE FOUR WANGJING EAST PARK, CHAOYANG DISTRICT, BEIJING
Beijing 100012
CN

A8-16-D0 (hex) Samsung Electronics Co.,Ltd
A816D0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A4-6C-F1 (hex) Samsung Electronics Co.,Ltd
A46CF1 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

08-AE-D6 (hex) Samsung Electronics Co.,Ltd
08AED6 (base 16) Samsung Electronics
Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

34-BA-38 (hex) PAL MOHAN ELECTRONICS PVT LTD
34BA38 (base 16) PAL MOHAN ELECTRONICS PVT LTD
40 DLF, INDUSTRIAL AREA, KIRTI NAGAR
NEW DELHI DELHI 110015
IN

40-64-A4 (hex) THE FURUKAWA ELECTRIC CO., LTD
4064A4 (base 16) THE FURUKAWA ELECTRIC CO., LTD
2-2-3,Marunouchi
Chiyoda-ku Tokyo 100-8322
JP

D4-5D-DF (hex) PEGATRON CORPORATION
D45DDF (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

F0-65-C2 (hex) Yanfeng Visteon Electronics Technology (Shanghai) Co.,Ltd.
F065C2 (base 16) Yanfeng Visteon Electronics Technology (Shanghai) Co.,Ltd.

1001 North Qin Zhou Road
Shang Hai 200233
CN

70-B7-E2 (hex) Jiangsu Miter Technology Co.,Ltd.
70B7E2 (base 16) Jiangsu Miter Technology Co.,Ltd.
No.86 fuyuan community,the town of houbei
Jurong Jiangsu 212400
CN

80-B7-08 (hex) Blue
Danube Systems, Inc
80B708 (base 16) Blue Danube Systems, Inc
3131 Jay Street, Suite 201
Santa Clara CA 95054
US

80-8D-B7 (hex) Hewlett Packard Enterprise
808DB7 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

88-D1-71 (hex) BEGHELLI S.P.A
88D171 (base 16) BEGHELLI S.P.A
VIA MOZZEGHINE 13/15
LOCALITA' MONTEVEGLIO - COMUNE VALSAMOGGIA BOLOGNA 40053
IT

A8-25-EB (hex) Cambridge Industries(Group) Co.,Ltd.
A825EB (base 16) Cambridge Industries(Group) Co.,Ltd.
5/F,Building 8, 2388 ChenHang Road, MinHang District
shanghai 201114
CN

34-E3-80 (hex) Genexis B.V.
34E380 (base 16) Genexis B.V.
Lodewijkstraat 1A
Eindhoven 5652AC
NL

5C-58-19 (hex) Jingsheng Technology Co., Ltd.
5C5819 (base 16) Jingsheng Technology Co., Ltd.
Linyin street 5#
chengdu sichuan 610000
CN

B8-CA-04 (hex) Holtek Semiconductor Inc.

B8CA04 (base
16) Holtek Semiconductor Inc.
No.3, Creation Rd. II, Science Park
Hsinchu 300
TW

C4-C5-63 (hex) TECNO MOBILE LIMITED
C4C563 (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

A0-9D-86 (hex) Alcatel-Lucent Shanghai Bell Co., Ltd
A09D86 (base 16) Alcatel-Lucent Shanghai Bell Co., Ltd
No. 389, Ningqiao Road, Pudong Jinqiao
Shanghai 201206
CN

6C-B2-AE (hex) Cisco Systems, Inc
6CB2AE (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-C0-FF (hex) Seagate Cloud Systems Inc
00C0FF (base 16) Seagate Cloud Systems Inc
6305 El Camino Real
Carlsbad CA 92009
US

B0-98-2B (hex) Sagemcom Broadband SAS
B0982B (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

34-FA-9F
(hex) Ruckus Wireless
34FA9F (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

A0-9D-C1 (hex) China Dragon Technology Limited
A09DC1 (base 16) China Dragon Technology Limited
B4 Bldg.Haoshan 1st Industry Park,
Shenzhen Guangdong 518104

CN

2C-42-05 (hex) Lytx
2C4205 (base 16) Lytx
9785 Towne Centre Drive
San Diego CA 92121
US

F4-1E-5E (hex) RtBrick Inc.
F41E5E (base 16) RtBrick Inc.
26 Kingston Terrace
Princeton NJ 08540
US

6C-76-60 (hex) KYOCERA CORPORATION
6C7660 (base 16) KYOCERA CORPORATION
2-1-1 Kagahara
Yokohama-shi Kanagawa 224-8502
JP

00-21-02 (hex) UpdateLogic Inc.
002102 (base 16) UpdateLogic Inc.
2 Willow Street, Suite 101
Southborough MA 01745
US

50-58-00 (hex) WyTec International, Inc.
505800 (base 16) WyTec International, Inc.
19206 Huebner Rd Suite 202
San Antonio Texas 78258
US

C8-D1-2A (hex) Comtrend
Corporation
C8D12A (base 16) Comtrend Corporation
3F-1, 10 Lane 609, Chongxin Road, Section 5,
New Taipei City, Taiwan 24159
TW

0C-EA-C9 (hex) ARRIS Group, Inc.
0CEAC9 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

BC-F2-92 (hex) PLANTRONICS, INC.
BCF292 (base 16) PLANTRONICS, INC.
345 ENCINAL STREET

SANTA CRUZ CA 95060
US

04-50-DA (hex) Qiku Internet Network Scientific (Shenzhen) Co., Ltd
0450DA (base 16) Qiku Internet Network Scientific (Shenzhen) Co., Ltd
Building A2, Chi Yuen Technology Park 1001 College Avenue, Nanshan District Shenzhen, Guangdong
Shenzhen Guangdong 518000
CN

E8-20-E2 (hex) HUMAX Co., Ltd.
E820E2 (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

18-90-D8 (hex) Sagemcom Broadband SAS
1890D8 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil
Malmaison Cedex hauts de seine 92848
FR

78-5C-28 (hex) Prime Motion Inc.
785C28 (base 16) Prime Motion Inc.
Akaho 1134-12
Komagane Nagano 399-4117
JP

EC-9F-0D (hex) IEEE Registration Authority
EC9F0D (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

08-BC-20 (hex) Hangzhou Royal Cloud Technology Co., Ltd
08BC20 (base 16) Hangzhou Royal Cloud Technology Co., Ltd
Hangzhou Xixi Road 957, 24, Unit 2, 302
Hangzhou 310030
CN

94-2A-3F (hex) Diversey Inc
942A3F (base 16) Diversey Inc
2415 Cascade Pointe Blvd
Charlotte NC 28208
US

20-31-EB (hex) HDSN
2031EB (base 16) HDSN

4 allée des roseaux
Saint mitre les remparts BDR 13920
FR

00-05-A7 (hex) HYPERCHIP Inc.
0005A7 (base 16) HYPERCHIP Inc.
180 Peel Street - Ste. #333
123 H3C 2G7
CA

00-26-A8 (hex) DAEHAP HYPER-TECH
0026A8 (base 16) DAEHAP HYPER-TECH
Mega center
#1108, SK Techno-Park, #190-1, Sangdaewon-Dong, Jungwon-Gu
Seongnam Gyeonggi-Do 462-807
KR

E0-78-A3 (hex) Shanghai Winner Information Technology Co.,Inc
E078A3 (base 16) Shanghai Winner Information Technology Co.,Inc
Lujiazui Software Park,No.190,Lane 91,Eshan Road,Pudong New Area
Shanghai Shanghai 200127
CN

88-83-5D (hex) FN-LINK TECHNOLOGY LIMITED
88835D (base 16) FN-LINK TECHNOLOGY LIMITED
No.8, Litong Road, Liuyang Economic & Technical Development Zone
ChangSha Hu Nan 410300
CN

F8-1D-0F (hex) Hitron Technologies. Inc
F81D0F (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

10-A4-BE (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
10A4BE (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268 Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

F8-C9-6C (hex) Fiberhome
Telecommunication Technologies Co.,LTD
F8C96C (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan City Hubei Province 430074
CN

84-48-23 (hex) WOXTER TECHNOLOGY Co. Ltd
844823 (base 16) WOXTER TECHNOLOGY Co. Ltd
23F Doushiyangguang, Chegongmiao
Shenzhen 518040
CN

94-7B-BE (hex) Ubicquia LLC
947BBE (base 16) Ubicquia LLC
BoA Building–Suite 1750, 401 E. Las Olas Boulevard
Fort Lauderdale FL 33301
US

EC-C0-6A (hex) PowerChord Group Limited
ECC06A (base 16) PowerChord Group Limited
1 Blythe Road
London W14 0HG
GB

94-49-96 (hex) WiSilica Inc
944996 (base 16) WiSilica Inc
23282 Mill Creek Dr #340
Laguna Hills CA 92653
US

8C-5B-F0 (hex) ARRIS Group, Inc.
8C5BF0 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

68-A6-82 (hex) Shenzhen YOUHUA Technology Co., Ltd
68A682 (base 16) Shenzhen YOUHUA Technology
Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

54-7A-52 (hex) CTE International srl
547A52 (base 16) CTE International srl
Via Sevardi 7
Reggio Emilia 42124
IT

24-F6-77 (hex) Apple, Inc.
24F677 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B0-CA-68 (hex) Apple, Inc.
B0CA68 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C8-3C-85 (hex) Apple, Inc.
C83C85 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

54-33-CB (hex) Apple, Inc.
5433CB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

34-08-BC (hex) Apple, Inc.
3408BC (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

1C-36-BB (hex) Apple, Inc.
1C36BB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

3C-2E-FF
(hex) Apple, Inc.
3C2EFF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-15-30 (hex) Dell EMC
001530 (base 16) Dell EMC
176 South Street
Hopkinton MA 01748
US

0C-B2-B7 (hex) Texas Instruments
0CB2B7 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243

US

58-7A-62 (hex) Texas Instruments
587A62 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

F0-6E-0B (hex) Microsoft Corporation
F06E0B (base 16) Microsoft Corporation
One Microsoft Way
REDMOND 98052
US

34-6F-ED (hex) Enovation Controls
346FED (base 16) Enovation Controls
5311 S. 122nd E. Ave.
Tulsa OK 74146
US

08-84-66 (hex) Novartis Pharma AG
088466 (base 16) Novartis Pharma AG
Lichtstrasse 35
Basel 4056
CH

30-9F-FB (hex) Ardomus Networks Corporation
309FFB (base 16) Ardomus Networks Corporation
4F,No. 6 Innovation Road II, Hsinchu Science
Park
Hsinchu 300
TW

00-E0-25 (hex) dit Co., Ltd.
00E025 (base 16) dit Co., Ltd.
Premier Toyocho Building
Koto-ku Tokyo 135-0056
JP

38-20-A8 (hex) ColorTokens, Inc.
3820A8 (base 16) ColorTokens, Inc.
2101 Tasman Dr. Suite 200A
Santa Clara CA 95054
US

70-58-96 (hex) InShow Technology
705896 (base 16) InShow Technology
Jinqi Zhigu Building, Chongwen Garden, Liuxian Avenue, Nanshan District

shenzhen Guangdong 518055
CN

00-B6-9F (hex) Latch
00B69F (base 16) Latch
450 W 33rd St
New York NY 10001
US

FC-EE-E6 (hex) FORMIKE ELECTRONIC CO., LTD
FCEEE6 (base 16) FORMIKE ELECTRONIC CO., LTD
Flats 401-403, Block B, iPARK Building, 26 Dengliang Rd., NanShan Distric
Shenzhen Guang Dong 518054
CN

98-C5-DB (hex) Ericsson AB
98C5DB (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

00-05-89 (hex) National Datacomputer
000589 (base
16) National Datacomputer
900 Middlesex Tpk.
Billerica MA 01821
US

3C-A6-16 (hex) vivo Mobile Communication Co., Ltd.
3CA616 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

24-F2-7F (hex) Hewlett Packard Enterprise
24F27F (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

BC-05-43 (hex) AVM GmbH
BC0543 (base 16) AVM GmbH
Alt-Moabit 95
Berlin 10559
DE

3C-C0-79 (hex) Shenzhen One-Nine Intelligent Electronic Science and Technology Co., Ltd
3CC079 (base 16) Shenzhen One-Nine Intelligent Electronic Science and Technology Co., Ltd

Office 3015, Chuangxingda Business Building, No.36. Liuxian 3 Road, Baoan District
Shenzhen Guangdong 518133
CN

9C-E0-63 (hex) Samsung Electronics Co.,Ltd
9CE063 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D0-31-69
(hex) Samsung Electronics Co.,Ltd
D03169 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

14-9F-3C (hex) Samsung Electronics Co.,Ltd
149F3C (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

78-87-0D (hex) Unifiedgateways India Private Limited
78870D (base 16) Unifiedgateways India Private Limited
25 1st Floor 4th Cross KR Road Jayanagar 7th Block West
Bangalore Karnataka 560082
IN

A8-82-00 (hex) Hisense Electric Co.,Ltd
A88200 (base 16) Hisense Electric Co.,Ltd
Qianwangang Roard 218
Qingdao Shandong 266510
CN

84-2C-80 (hex) Sichuan Changhong Electric Ltd.
842C80 (base 16) Sichuan Changhong Electric Ltd.
No.35,East MianXin Road,MianYang,Sichaun,China.
MianYang SiChuan PRC 621000
CN

40-8B-F6 (hex) Shenzhen TCL New Technology Co., Ltd
408BF6 (base 16) Shenzhen TCL New Technology Co., Ltd
TCL
Building, #5 Central Nanhai Road, Nanshan District,
Shenzhen, Guangdong, 518067
CN

00-00-6B (hex) Silicon Graphics
00006B (base 16) Silicon Graphics
2011 NORTH SHORELINE BLVD.
MOUNTAIN VIEW CA 94039-7311
US

84-E3-27 (hex) TAILYN TECHNOLOGIES INC
84E327 (base 16) TAILYN TECHNOLOGIES INC
NO 10 RUNG-AN ROAD, LU-ZHU DISTRICT
TAOYUAN CITY TAIWAN ROC 33852
TW

00-21-B8 (hex) Inphi Corporation
0021B8 (base 16) Inphi Corporation
112 S. Lakeview Canyon Rd., Suite 100
Westlake Village CA 91362
US

E4-A7-C5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E4A7C5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A0-FE-61 (hex) Vivint Wireless Inc.
A0FE61 (base 16) Vivint Wireless Inc.
4931 N 300 W
Provo UT 84604
US

5C-2B-F5 (hex) Vivint Wireless Inc.
5C2BF5 (base 16) Vivint Wireless Inc.
4931 N 300 W
Provo
UT 84604
US

90-FD-9F (hex) Silicon Laboratories
90FD9F (base 16) Silicon Laboratories
400 W. Cesar Chavez St.
Austin TX 78701
US

A0-64-8F (hex) ASKEY COMPUTER CORP
A0648F (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

C8-50-E9 (hex) Raisecom Technology CO., LTD
C850E9 (base 16) Raisecom Technology CO., LTD
No. 11, East Area, No. 10 Block, East Xibeiwang Road
Beijing 100094
CN

74-37-3B (hex) UNINET Co.,Ltd.
74373B (base 16) UNINET Co.,Ltd.
#1803, Daerung Techno Town15, 401, Simin-daero, Dongan-gu
Anyang-si Gyunggi-do 14057
KR

7C-64-56 (hex) Samsung Electronics Co.,Ltd
7C6456 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

10-F1-63 (hex) TNK CO.,LTD
10F163 (base 16) TNK CO.,LTD
1 Kasugayama.Iitoyo
Tenei-village.Iwase-country Fukushima-prefecture 962-0512
JP

88-DA-1A
(hex) Redpine Signals, Inc.
88DA1A (base 16) Redpine Signals, Inc.
Plot 87, Sagar Society
Hyderabad AP 500034
IN

98-EF-9B (hex) OHSUNG
98EF9B (base 16) OHSUNG
335-4,SANHODAERO,GUMI,GYEONG BUK,KOREA
GUMI GYEONG BUK 730-030
KR

14-CF-8D (hex) OHSUNG
14CF8D (base 16) OHSUNG
181
GUMI KYUNGBUK 730-030
KR

10-44-00 (hex) HUAWEI TECHNOLOGIES CO.,LTD
104400 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

B0-E1-7E (hex) HUAWEI TECHNOLOGIES CO.,LTD
B0E17E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

0C-91-60 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
0C9160 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

D8-ED-1C (hex) Magna
Technology SL
D8ED1C (base 16) Magna Technology SL
C/Principe de Vergara, 55. 3ª planta
Madrid 28006
ES

D8-31-34 (hex) Roku, Inc
D83134 (base 16) Roku, Inc
1155 Coleman Ave
San Jose CA 95110
US

F4-6E-24 (hex) NEC Personal Computers, Ltd.
F46E24 (base 16) NEC Personal Computers, Ltd.
Akihabara UDX,14-1, Sotokanda 4-Chome
Chiyoda-ku Tokyo 101-0021
JP

88-82-79 (hex) Shenzhen RB-LINK Intelligent Technology Co.Ltd
888279 (base 16) Shenzhen RB-LINK Intelligent Technology Co.Ltd
Second floor, No 22, Wanfeng the third industry area, Shajing , BaoAn district
Shenzhen City 518125
CN

68-C6-3A (hex) Espressif Inc.
68C63A (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

B4-30-C0 (hex) York Instruments Ltd
B430C0 (base 16) York Instruments Ltd
The Biocentre, York Science Park

York North Yorkshire YO10 5NY
GB

E8-1D-A8
(hex) Ruckus Wireless
E81DA8 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

5C-8D-2D (hex) Shanghai Wellpay Information Technology Co., Ltd
5C8D2D (base 16) Shanghai Wellpay Information Technology Co., Ltd
Loushanguan Road 523, Jin Hongqiao International Center Building, 1501
Shanghai 200000
CN

00-60-88 (hex) Analog Devices, Inc.
006088 (base 16) Analog Devices, Inc.
410 AMHERST STREET-STE #325
NASHUA NH 03063
US

08-4A-CF (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
084ACF (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

94-7E-B9 (hex) National Narrowband Network Communications Pty Ltd
947EB9 (base 16) National Narrowband Network Communications Pty Ltd
Unit 10, 1 Talavera Road
Macquarie Park New South Wales 2113
AU

00-C0-EE (hex) KYOCERA Display Corporation
00C0EE
(base 16) KYOCERA Display Corporation
2-14-9 TAMAGAWADAI
tokyo 158 0000
JP

2C-27-9E (hex) IEEE Registration Authority
2C279E (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

8C-5F-48 (hex) Continental Intelligent Transportation Systems LLC

8C5F48 (base 16) Continental Intelligent Transportation Systems LLC
3901 North First Street
San Jose CA 95134
US

24-5F-DF (hex) KYOCERA CORPORATION
245FDF (base 16) KYOCERA CORPORATION
2-1-1,Kagahara,
Yokohama-shi Kanagawa 224-8502
JP

9C-63-ED (hex) zte corporation
9C63ED (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

DC-F0-90 (hex) Nubia Technology Co.,Ltd.
DCF090 (base 16) Nubia Technology Co.,Ltd.
6/F-8/F 10/F-11/F A Tower,6/F B Tower,6/F-10/F C Tower Dazu Innovation Mansion, North Ring Rd,No.9018,High-Tech Park Nanshan District
Shenzhen
Guandong 518057
CN

CC-5A-53 (hex) Cisco Systems, Inc
CC5A53 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

70-6B-B9 (hex) Cisco Systems, Inc
706BB9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F0-3D-03 (hex) TECNO MOBILE LIMITED
F03D03 (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

64-6E-69 (hex) Liteon Technology Corporation
646E69 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585

TW

D4-38-9C (hex) Sony Corporation
D4389C (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

00-19-87 (hex) Panasonic Mobile Communications Co.,Ltd.
001987 (base 16) Panasonic Mobile Communications Co.,Ltd.
600 Saedo-cho, Tsuzuki-ku,
Yokohama
City Kanagawa Prefecture 224-8539
JP

BC-C3-42 (hex) Panasonic Communications Co., Ltd.
BCC342 (base 16) Panasonic Communications Co., Ltd.
4-1-62 Minoshima Hakata-ku
Fukuoka city Fukuoka 812-8531
JP

00-1B-D3 (hex) Panasonic Corporation AVC Networks Company
001BD3 (base 16) Panasonic Corporation AVC Networks Company
1-15 Matsuo-cho
Kadoma Osaka 571-8504
JP

CC-7E-E7 (hex) Panasonic Corporation AVC Networks Company
CC7EE7 (base 16) Panasonic Corporation AVC Networks Company
1-15 Matsuo-cho
Kadoma City Osaka 571-8504
JP

74-F6-61 (hex) Schneider Electric Fire & Security Oy
74F661 (base 16) Schneider Electric Fire & Security Oy
Sokerilinnantie 11 C
Espoo 02650
FI

2C-B2-1A (hex) Phicomm (Shanghai) Co., Ltd.
2CB21A (base 16) Phicomm (Shanghai) Co., Ltd.
3666 SiXian Rd.,Songjiang District
Shanghai Shanghai 201616
CN

E4-70-B8 (hex) Intel Corporate
E470B8

(base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

20-A6-CD (hex) Hewlett Packard Enterprise
20A6CD (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

00-DB-70 (hex) Apple, Inc.
00DB70 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B8-63-4D (hex) Apple, Inc.
B8634D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

24-C4-2F (hex) Philips Lifeline
24C42F (base 16) Philips Lifeline
111 Lawrence st
Framingham MA 01702
US

A4-E9-75 (hex) Apple, Inc.
A4E975 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

30-35-AD (hex) Apple, Inc.
3035AD (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

84-41-67 (hex) Apple, Inc.
844167 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

98-00-C6 (hex) Apple, Inc.

9800C6
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-1F-74 (hex) Apple, Inc.
AC1F74 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A8-5C-2C (hex) Apple, Inc.
A85C2C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

9C-30-5B (hex) Hon Hai Precision Ind. Co.,Ltd.
9C305B (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

FC-E5-57 (hex) Nokia Corporation
FCE557 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu Ou 90590
FI

48-C5-8D (hex) Lear Corporation GmbH
48C58D (base 16) Lear Corporation GmbH
Industriestrasse 48
Kronach Bavaria 96317
DE

00-28-9F (hex) Semptian Co., Ltd.
00289F (base 16) Semptian Co., Ltd.
Block 5D, 8/F, Software Industry Park, No.14, Haitian 2nd Road, GaoxinSouth, Nanshan District, Shenzhen, China
Shen Zhen GuangDong 518061
CN

10-4E-89
(hex) Garmin International
104E89 (base 16) Garmin International
1200 E. 151st St
Olathe KS 66062
US

20-C6-EB (hex) Panasonic Corporation AVC Networks Company
20C6EB (base 16) Panasonic Corporation AVC Networks Company
1-15 Matsuo-cho
Kadoma Osaka 571-8504
JP

64-B5-C6 (hex) Nintendo Co.,Ltd
64B5C6 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

28-30-AC (hex) Frontiir Co. Ltd.
2830AC (base 16) Frontiir Co. Ltd.
5 Bayint Naung Road, Hlaing Township
Yangon 11052
MM

D4-D2-E5 (hex) BKAV Corporation
D4D2E5 (base 16) BKAV Corporation
2nd floor - HH1 Building - Yen Hoa Urban Area, Yen Hoa Ward, Cau Giay District
HaNoi 100000
VN

00-50-B5 (hex) FICHET SECURITE ELECTRONIQUE
0050B5 (base 16) FICHET SECURITE ELECTRONIQUE
15-17 AVE. MORANE-SAULNIER

FR

00-14-39 (hex) Blonder Tongue Laboratories, Inc
001439
(base 16) Blonder Tongue Laboratories, Inc
One Jake Brown Road
Old Bridge 08857
US

D8-C4-97 (hex) Quanta Computer Inc.
D8C497 (base 16) Quanta Computer Inc.
No. 211, Wen-Hwa 2nd Rd.,Kuei-Shan Dist.
Taoyuan City Taiwan 33377
TW

74-1C-27 (hex) ITEL MOBILE LIMITED
741C27 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077

HK

84-80-2D (hex) Cisco Systems, Inc
84802D (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

00-18-8D (hex) Nokia Danmark A/S
00188D (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V 1790
DK

00-15-AB (hex) PRO CO SOUND INC
0015AB (base 16) PRO CO SOUND INC
225 PARSONS STREET
KALAMAZOO MICHIGAN 49008
US

58-76-C5 (hex) DIGI I'S LTD
5876C5 (base 16) DIGI I'S LTD
31, Takahata, Maesawa
Oshu Iwate 029-4204
JP

00-86-9C
(hex) Palo Alto Networks
00869C (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

94-D9-B3 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
94D9B3 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

C8-40-29 (hex) Fiberhome Telecommunication Technologies Co.,LTD
C84029 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

F8-6E-EE (hex) HUAWEI TECHNOLOGIES CO.,LTD
F86EEE (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park

Dongguan 523808
CN

4C-49-E3 (hex) Xiaomi Communications Co Ltd
4C49E3 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

28-D4-36 (hex) Jiangsu
dewosi electric co., LTD
28D436 (base 16) Jiangsu dewosi electric co., LTD
Dantu district fengjingchengbang xibanya 503, building 6
Zhenjiang Jiangsu 212028
CN

D4-B2-7A (hex) ARRIS Group, Inc.
D4B27A (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-A0-AC (hex) GILAT SATELLITE NETWORKS, LTD.
00A0AC (base 16) GILAT SATELLITE NETWORKS, LTD.
24A HABARZEL STREET

IL

00-26-09 (hex) Phyllis Co., Ltd.
002609 (base 16) Phyllis Co., Ltd.
9th Fl., Room 3/4, No. 52, Sec. 2, Chung Shan North Road,
Taipei 104
TW

28-F5-37 (hex) IEEE Registration Authority
28F537 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

44-EA-4B (hex) Actlas Inc.
44EA4B (base 16) Actlas Inc.
2-2-32, Asahikawa,
Yokote Akita 013-0033
JP

C4-CB-6B (hex) Airista Flow, Inc.
C4CB6B (base 16) Airista Flow, Inc.

913 Ridgebrook
Road Suite 110
Sparks MD 21152
US

18-80-90 (hex) Cisco Systems, Inc
188090 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

78-D8-00 (hex) IEEE Registration Authority
78D800 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

08-35-B2 (hex) CoreEdge Networks Co., Ltd
0835B2 (base 16) CoreEdge Networks Co., Ltd
#806 G Plus Tower, 123, Digital-ro 26gil, Guro-gu
Seoul 08390
KR

F8-34-41 (hex) Intel Corporate
F83441 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

78-02-B1 (hex) Cisco Systems, Inc
7802B1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

B4-0F-3B (hex) Tenda Technology Co.,Ltd.Dongguan branch
B40F3B (base 16) Tenda Technology Co.,Ltd.Dongguan branch
Room 79,Yuanyi Road,Dalang Town,Dongguan Guangdong 523770
Dongguan Guangdong 523770
CN

78-62-56
(hex) HUAWEI TECHNOLOGIES CO.,LTD
786256 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B0-55-08 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B05508 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-B2-DA (hex) FUJITSU LIMITED
A8B2DA (base 16) FUJITSU LIMITED
403, Kosugi-cho 1-chome, Nakahara-ku
Kawasaki Kanagawa 211-0063
JP

24-58-80 (hex) VIZEO
245880 (base 16) VIZEO
13 rue Emile Decorps
Villeurbanne 69100
FR

54-66-6C (hex) Shenzhen YOUHUA Technology Co., Ltd
54666C (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

A8-96-75 (hex) Motorola Mobility LLC, a Lenovo Company
A89675 (base 16) Motorola Mobility LLC, a Lenovo
Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

8C-9F-3B (hex) Qingdao Hisense Communications Co.,Ltd.
8C9F3B (base 16) Qingdao Hisense Communications Co.,Ltd.
Qianwangang Road 218
Qingdao Shandong 266510
CN

00-14-B8 (hex) Hill-Rom
0014B8 (base 16) Hill-Rom
1125 E. Pearl Street
Batesville IN 47006
US

AC-ED-5C (hex) Intel Corporate
ACED5C (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

58-93-96 (hex) Ruckus Wireless
589396 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

00-1F-41 (hex) Ruckus Wireless
001F41 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

84-20-96 (hex) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
842096 (base 16) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
Bldg56A,6/F,Baotian Rd3,Xixiang Town,Baoan District,
Shenzhen Guangdong 518000
CN

B4-C1-70 (hex) Yi chip
Microelectronics (Hangzhou) Co., Ltd
B4C170 (base 16) Yi chip Microelectronics (Hangzhou) Co., Ltd
Suite 401, Building #13, No. 498 Guoshoujing Rd., Pudong
Shanghai 201210
CN

B8-75-C0 (hex) PayPal, Inc.
B875C0 (base 16) PayPal, Inc.
2211 North 1st Street
San Jose California 95131
US

00-1C-71 (hex) Emergent Electronics
001C71 (base 16) Emergent Electronics
Bldg 2 Level 3 Suite 305
Sewickley PA 15143
US

00-1A-93 (hex) ERCO Leuchten GmbH
001A93 (base 16) ERCO Leuchten GmbH
Brockhauser Weg 80-82
Lüdenscheid NRW D-58507
DE

94-F6-65 (hex) Ruckus Wireless
94F665 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089

US

B0-90-D4 (hex) Shenzhen Hoin Internet Technology Co., Ltd
B090D4 (base 16) Shenzhen Hoin Internet Technology Co., Ltd
Xusheng Building, No. 4004, Bao'an, Room 1616 Bao'an District
Shenzhen Guangdong 518000
CN

38-9A-F6 (hex) Samsung
Electronics Co.,Ltd
389AF6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E0-AA-96 (hex) Samsung Electronics Co.,Ltd
E0AA96 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

50-77-05 (hex) Samsung Electronics Co.,Ltd
507705 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C4-10-8A (hex) Ruckus Wireless
C4108A (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

F0-B0-52 (hex) Ruckus Wireless
F0B052 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

AC-67-06 (hex) Ruckus Wireless
AC6706 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

04-4F-AA (hex) Ruckus Wireless
044FAA (base 16) Ruckus Wireless
350 West Java Drive

Sunnyvale CA 94089
US

08-30-6B (hex) Palo Alto Networks
08306B
(base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

38-94-E0 (hex) Syrotech Networks. Ltd.
3894E0 (base 16) Syrotech Networks. Ltd.
UNIT NO.-5 20F, KIN WING INDUSTERIAL BUILDING,33 KIN WING STREET
TUEN MUN 999077
HK

34-F6-4B (hex) Intel Corporate
34F64B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

50-18-4C (hex) Platina Systems Inc.
50184C (base 16) Platina Systems Inc.
3180 De La Cruz Blvd. Ste# 110
Santa Clara CA 95054
US

F4-B7-B3 (hex) vivo Mobile Communication Co., Ltd.
F4B7B3 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

6C-F9-D2 (hex) CHENGDU POVODO ELECTRONIC TECHNOLOGY CO., LTD
6CF9D2 (base 16) CHENGDU POVODO ELECTRONIC TECHNOLOGY CO., LTD
High - West West West Center Road on the 4th
Chengdu Sichuan 611731
CN

F4-6B-EF (hex) Sagemcom
Broadband SAS
F46BEF (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

A4-F3-E7 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.

A4F3E7 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

E4-3A-6E (hex) Shenzhen Zeroone Technology CO.,LTD
E43A6E (base 16) Shenzhen Zeroone Technology CO.,LTD
9/F.,Building B Tianan Cyber Park ,North Huangge Road,Longgang District
Shenzhen Guangdong 518000
CN

90-61-AE (hex) Intel Corporate
9061AE (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

10-CD-B6 (hex) Essential Products, Inc.
10CDB6 (base 16) Essential Products, Inc.
380 Portage Avenue
Palo Alto CA 94306
US

30-B6-2D (hex) Mojo Networks, Inc.
30B62D (base 16) Mojo Networks, Inc.
339 N.Bernardo Ave
Mountain View CA 94043
US

70-DF-2F
(hex) Cisco Systems, Inc
70DF2F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

90-EC-50 (hex) C.O.B.O. SPA
90EC50 (base 16) C.O.B.O. SPA
via Tito Speri, 10
Leno Brescia 25024
IT

00-18-AE (hex) TVT CO.,LTD
0018AE (base 16) TVT CO.,LTD
5/F,North Block,CE Lighting House
shenzhen guangdong 518026
CN

88-91-DD (hex) Racktivity
8891DD (base 16) Racktivity
Hertstokweg 5
Ternat Flanders 1741
BE

1C-45-93 (hex) Texas Instruments
1C4593 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

FC-A6-67 (hex) Amazon Technologies Inc.
FCA667 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

6C-60-EB (hex) ZHI YUAN ELECTRONICS CO., LIMITED
6C60EB (base 16) ZHI YUAN ELECTRONICS CO., LIMITED
UNIT 2508A 25/F BANK OF AMERICA TOWER 12 HARCOURT RD CENTRAL
HONGKONG 999077
HK

74-DA-DA
(hex) D-Link International
74DADA (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy, Singapore
Singapore Singapore 609917
SG

00-EC-0A (hex) Xiaomi Communications Co Ltd
00EC0A (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

C8-1F-EA (hex) Avaya Inc
C81FEA (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

60-27-1C (hex) VIDEOR E. Hartig GmbH
60271C (base 16) VIDEOR E. Hartig GmbH
Carl-Zeiss-Straße 8
Rödermark Hessen 63322
DE

D8-F1-F0 (hex) Pepxim International Limited
D8F1F0 (base 16) Pepxim International Limited
A5, 5/F, HK Spinners Industrial Building, Phase 6
Cheung Sha Wan Hong Kong 0
HK

9C-7B-D2 (hex) NEOLAB Convergence
9C7BD2 (base 16) NEOLAB Convergence
4F Yujung bldg.,
Seoul 137-070
KR

2C-41-A1 (hex) Bose
Corporation
2C41A1 (base 16) Bose Corporation
The Mountain
Framingham MA 01701-9168
US

D0-F8-8C (hex) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
D0F88C (base 16) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
No.19, Gaoxin 4th Road, Wuhan East Lake High-tech Zone, Wuhan
Wuhan Hubei 430000
CN

2C-B1-15 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
2CB115 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

10-D0-7A (hex) AMPAK Technology, Inc.
10D07A (base 16) AMPAK Technology, Inc.
No.1,Jen Ai Road Hsinchu Industrial Park, Hukou
Hsinchu Taiwan ROC. 30352
TW

00-24-49 (hex) Shen Zhen Lite Star Electronics Technology Co., Ltd
002449 (base 16) Shen Zhen Lite Star Electronics Technology Co., Ltd
Xinghong Science Park,1st Ind.Area,
ShenZhen GuangDong 518102
CN

DC-C8-F5 (hex) Shanghai
UMEinfo CO.,LTD.
DCC8F5 (base 16) Shanghai UMEinfo CO.,LTD.
16/F,Building B ,NO.15 Changyi Road ,Baoshan District,

Shanghai 200441
CN

88-D7-F6 (hex) ASUSTek COMPUTER INC.
88D7F6 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

04-71-4B (hex) IEEE Registration Authority
04714B (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

C8-D7-B0 (hex) Samsung Electronics Co.,Ltd
C8D7B0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-E1-8C (hex) Intel Corporate
00E18C (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

90-97-F3 (hex) Samsung Electronics Co.,Ltd
9097F3 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

7C-1C-68 (hex) Samsung Electronics Co.,Ltd
7C1C68 (base 16) Samsung Electronics
Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C0-87-EB (hex) Samsung Electronics Co.,Ltd
C087EB (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

84-79-33 (hex) profichip GmbH
847933 (base 16) profichip GmbH

Einsteinstrasse 6
Herzogenaurach 91074
DE

88-15-44 (hex) Cisco Meraki
881544 (base 16) Cisco Meraki
660 Alabama St
San Francisco CA 94110
US

4C-38-D8 (hex) ARRIS Group, Inc.
4C38D8 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

44-7B-BB (hex) Shenzhen YOUHUA Technology Co., Ltd
447BBB (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

44-B4-12 (hex) SIUS AG
44B412 (base 16) SIUS AG
Im Langhag 1
Effretikon 8307
CH

0C-B9-12 (hex) JM-DATA GmbH
0CB912
(base 16) JM-DATA GmbH
Hackl-Str. 1
Traun Upper Austria 4050
AT

C4-AB-B2 (hex) vivo Mobile Communication Co., Ltd.
C4ABB2 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

DC-08-56 (hex) Alcatel-Lucent Enterprise
DC0856 (base 16) Alcatel-Lucent Enterprise
26801 West Agoura Rd
Calabasas CA 91301
US

F4-3E-61 (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT

F43E61 (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT
2F Baiying Building
Shenzhen Guangdong 518067
CN

B4-41-7A (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
B4417A (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT
4F,Baiying Building, No.1019,Nanhai RD,Shekou
ShenZhen GuangDong 518067
CN

3C-A3-08 (hex) Texas Instruments
3CA308 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

D4-50-3F (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
D4503F
(base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

38-8C-50 (hex) LG Electronics
388C50 (base 16) LG Electronics
222 LG-ro, JINWI-MYEON
Pyeongtaek-si Gyeonggi-do 451-713
KR

00-D3-18 (hex) SPG Controls
00D318 (base 16) SPG Controls
Blue gates business park Stortford road
Dunmow Essex CM61SN
GB

D0-55-B2 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
D055B2 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

14-4F-D7 (hex) IEEE Registration Authority
144FD7 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

B8-55-10 (hex) Zioncom Electronics (Shenzhen) Ltd.
B85510 (base 16) Zioncom Electronics (Shenzhen) Ltd.
A1&A2 Building,Lantian Technology Park, Xinyu Road, Xingqiao Henggang Block, Shajing Street, Shenzhen
Guangdong 518000
CN

00-11-8B (hex) Alcatel-Lucent Enterprise
00118B (base 16) Alcatel-Lucent Enterprise
26801 West Agoura Road
Calabasas CA 91301
US

00-E0-B1 (hex) Alcatel-Lucent Enterprise
00E0B1 (base 16) Alcatel-Lucent Enterprise
26801 West Agoura Road
Calabasas CA 91301
US

00-E0-DA (hex) Alcatel-Lucent Enterprise
00E0DA (base 16) Alcatel-Lucent Enterprise
26801 West Agoura Road
CALABASAS CA 91301
US

F8-BE-0D (hex) A2UICT Co.,Ltd.
F8BE0D (base 16) A2UICT Co.,Ltd.
1202, OWNER'S TOWER, 28,
Hwangsaeul-ro 200 beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do 13595
KR

00-14-3F (hex) Hotway Technology Corporation
00143F (base 16) Hotway Technology Corporation
3F.-4, No.81, Sec. 1, Xintai 5th Rd.
Xizhi Dist. New Taipei City 22101
TW

E8-C1-D7 (hex) Philips
E8C1D7 (base 16) Philips
TussenDiepen 4
Drachten Friesland 9206 AD
NL

4C-81-20 (hex) Taicang
T&W Electronics
4C8120 (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412

CN

28-A6-DB (hex) HUAWEI TECHNOLOGIES CO.,LTD
28A6DB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

14-A0-F8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
14A0F8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C8-F8-6D (hex) Alcatel-Lucent Shanghai Bell Co., Ltd
C8F86D (base 16) Alcatel-Lucent Shanghai Bell Co., Ltd
No. 389, Ningqiao Road, Pudong Jinqiao
Shanghai 201206
CN

60-45-CB (hex) ASUSTek COMPUTER INC.
6045CB (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

E4-42-A6 (hex) Intel Corporate
E442A6 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

3C-67-8C (hex) HUAWEI
TECHNOLOGIES CO.,LTD
3C678C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

1C-DA-27 (hex) vivo Mobile Communication Co., Ltd.
1CDA27 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

90-F3-05 (hex) HUMAX Co., Ltd.
90F305 (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu

Seongnam-si Gyeonggi-do 463-875
KR

40-95-BD (hex) NTmore.Co.,Ltd
4095BD (base 16) NTmore.Co.,Ltd
38, Heungan-daero 427 beon-gil, Dongan-gu
Anyang Gyeonggi 431-801
KR

98-AA-FC (hex) IEEE Registration Authority
98AAFC (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

F8-FF-0B (hex) Electronic Technology Inc.
F8FF0B (base 16) Electronic Technology Inc.
511 Lyons Ave
Irvington NJ 07111
US

7C-6B-F7 (hex) NTI co.,
ltd.
7C6BF7 (base 16) NTI co., ltd.
5th floor takei building 2-19-6
taito taito-ku , Tokyo 1100016
JP

70-F0-87 (hex) Apple, Inc.
70F087 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

24-5B-A7 (hex) Apple, Inc.
245BA7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D4-7D-FC (hex) TECNO MOBILE LIMITED
D47DFC (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

40-9F-38 (hex) AzureWave Technology Inc.

409F38 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

00-0C-46 (hex) Allied Telesyn Inc.
000C46 (base 16) Allied Telesyn Inc.
960 Stewart Drive, Suite B
Sunnyvale California 94085
US

00-1F-72 (hex) QingDao Hiphone Technology Co,.Ltd
001F72 (base 16) QingDao
Hiphone Technology Co,.Ltd
NO.106,JiangXi Road
QingDao ShanDong 266071
CN

00-23-65 (hex) Insta Elektro GmbH
002365 (base 16) Insta Elektro GmbH
Hohe Steinert 10
Luedenscheid NRW 58509
DE

60-91-F3 (hex) vivo Mobile Communication Co., Ltd.
6091F3 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

28-39-5E (hex) Samsung Electronics Co.,Ltd
28395E (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

38-29-5A (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
38295A (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

CC-82-EB (hex) KYOCERA CORPORATION
CC82EB (base 16) KYOCERA CORPORATION
2-1-1,Kagahara, Tsuzuki-ku,
Yokohama-shi Kanagawa 224-8502
JP

D4-CF-37 (hex) Symbolic IO
D4CF37 (base
16) Symbolic IO
101 Crawfords Corner Rd.
Holmdel NJ 07733
US

04-95-73 (hex) zte corporation
049573 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

F0-D7-AA (hex) Motorola Mobility LLC, a Lenovo Company
F0D7AA (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

40-FA-7F (hex) Preh Car Connect GmbH
40FA7F (base 16) Preh Car Connect GmbH
Gewerbepark 5
Dresden 01156
DE

00-06-31 (hex) Calix Inc.
000631 (base 16) Calix Inc.
2777 Orchard Pkwy
San Jose CA 95131
US

BC-2F-3D (hex) vivo Mobile Communication Co., Ltd.
BC2F3D (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

30-96-FB (hex) Samsung Electronics Co.,Ltd
3096FB (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi
Gyeongbuk 730-350
KR

48-27-EA (hex) Samsung Electronics Co.,Ltd
4827EA (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350

KR

7C-78-7E (hex) Samsung Electronics Co.,Ltd
7C787E (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E0-51-63 (hex) Arcadyan Corporation
E05163 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

54-E3-F6 (hex) Alcatel-Lucent
54E3F6 (base 16) Alcatel-Lucent
777 East Middlefield Road
Mountain View CA 94043
US

40-B0-34 (hex) Hewlett Packard
40B034 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

30-34-D2 (hex) Availink, Inc.
3034D2 (base 16) Availink, Inc.
Scotia Centre P.O. Box 268GT,Grand Cayman, Cayman Islands
Grand Cayman Grand Cayman 999159
KY

88-E6-28 (hex) Shenzhen Kezhonglong Optoelectronic Technology
Co.,Ltd
88E628 (base 16) Shenzhen Kezhonglong Optoelectronic Technology Co.,Ltd
Floor 3, Bldg. 5, Area B, Xinfu Industrial Park, Chongqing Rd., Baoan Dist,Shenzhen,Guangdong, China
Shenzhen Guangdong 518103
CN

50-F1-4A (hex) Texas Instruments
50F14A (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

2C-7E-81 (hex) ARRIS Group, Inc.
2C7E81 (base 16) ARRIS Group, Inc.
6450 Sequence Drive

San Diego CA 92121
US

04-DE-F2 (hex) Shenzhen ECOM Technology Co. Ltd
04DEF2 (base 16) Shenzhen ECOM Technology Co. Ltd
Longhua Street Qinghu Community Longhu Junhui Fashion Apartment
Longhua New District, Shenzhen Guangdong 518012
CN

40-7D-0F (hex) HUAWEI TECHNOLOGIES CO.,LTD
407D0F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

68-CC-6E (hex) HUAWEI TECHNOLOGIES CO.,LTD
68CC6E (base 16) HUAWEI TECHNOLOGIES
CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

3C-BD-3E (hex) Beijing Xiaomi Electronics Co., Ltd.
3CBD3E (base 16) Beijing Xiaomi Electronics Co., Ltd.
Building C, QingHe ShunShiJiaYe Technology Park, #66 ZhuFang Rd, HaiDian District
Beijing Beijing 10085
CN

64-1A-22 (hex) Heliospectra AB
641A22 (base 16) Heliospectra AB
Fiskhamnsgatan 2
Gothenburg SE-414 58
SE

B8-16-DB (hex) CHANT SINCERE CO.,LTD
B816DB (base 16) CHANT SINCERE CO.,LTD
7F-2,NO.188,SEC.3,TA TUNG ROAD
XIZHI DISTRICT, NEW TAIPEI CITY TAIWAN,ROC 22103
TW

50-40-61 (hex) Nokia
504061 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

00-10-8E (hex) HUGH SYMONS CONCEPT Technologies Ltd.
00108E (base 16) HUGH SYMONS CONCEPT Technologies Ltd.

Alder Hills Park
Poole, Dorset BM12 4AR
GB

40-B4-CD (hex) Amazon Technologies Inc.
40B4CD (base
16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

F4-2B-48 (hex) Ubiqam
F42B48 (base 16) Ubiqam
15 Gonen
Petah Tiqva 4925915
IL

D4-7A-E2 (hex) Samsung Electronics Co.,Ltd
D47AE2 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

A0-84-CB (hex) SonicSensory,Inc.
A084CB (base 16) SonicSensory,Inc.
1161 Logan St
Los Angeles CA 90026
US

54-03-84 (hex) Hongkong Nano IC Technologies Co., Ltd
540384 (base 16) Hongkong Nano IC Technologies Co., Ltd
Rm. 19C, Lockhart Ctr., 301-307 Lockhart Rd., Wan Chai, Hong Kong
Hong Kong Hong Kong 999077
CN

4C-78-72 (hex) Cav. Uff. Giacomo Cimberio S.p.A.
4C7872 (base 16) Cav. Uff. Giacomo Cimberio S.p.A.
Via Torchio, 57
San Maurizio d'Opaglio (Novara) 28017
IT

00-03-BC (hex) COT GmbH
0003BC (base 16) COT GmbH
Güterstraße 5

DE

8C-F5-A3 (hex) SAMSUNG

ELECTRO-MECHANICS(THAILAND)
8CF5A3 (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak SEMTHAI, WELLGROW INDUSTRIAL ESTATE
Bangpakong Chachoengsao 24180
TH

8C-C8-F4 (hex) IEEE Registration Authority
8CC8F4 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

F4-83-E1 (hex) Shanghai Clouder Semiconductor Co.,Ltd
F483E1 (base 16) Shanghai Clouder Semiconductor Co.,Ltd
Room515,No.8,Wuzhong Rd,Xuhui District
Shanghai Shanghai 200336
CN

08-3E-5D (hex) Sagemcom Broadband SAS
083E5D (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

70-91-8F (hex) Weber-Stephen Products LLC
70918F (base 16) Weber-Stephen Products LLC
1415 S. Roselle Rd
Palatine IL 60067
US

D8-E0-E1 (hex) Samsung Electronics Co.,Ltd
D8E0E1 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon
Gyeonggi-Do 16677
KR

00-A0-C8 (hex) Adtran Inc
00A0C8 (base 16) Adtran Inc
901 EXPLORER BLVD.
HUNTSVILLE AL 35806-2807
US

68-54-FD (hex) Amazon Technologies Inc.
6854FD (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

78-C1-A7 (hex) zte corporation
78C1A7 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

D8-C7-71 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D8C771 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

7C-10-15 (hex) Brilliant Home Technology, Inc.
7C1015 (base 16) Brilliant Home Technology, Inc.
762 Judith Ct
Incline Village NV 89451
US

00-20-4F (hex) DEUTSCHE AEROSPACE AG
00204F (base 16) DEUTSCHE AEROSPACE AG
GESCHAEFTSFELD
BUNDESREPUBLIK DEUTSCHLAND
DE

74-61-4B (hex) Chongqing Huijiatong
Information Technology Co., Ltd.
74614B (base 16) Chongqing Huijiatong Information Technology Co., Ltd.
Yubei District Longxi Street Hongjin Road No. 498, building Jialeziguang No.1 12-12, 12-13, 12-13, 12-14, 12-15
Chongqing Chongqing City 401120
CN

E0-22-02 (hex) ARRIS Group, Inc.
E02202 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

D8-25-B0 (hex) Rockeetech Systems Co.,Ltd.
D825B0 (base 16) Rockeetech Systems Co.,Ltd.
Unit 201, #6 Lane 51, Shuicheng S Rd.
Shanghai 201103
CN

D4-B1-69 (hex) Le Shi Zhi Xin Electronic Technology (Tianjin) Limited
D4B169 (base 16) Le Shi Zhi Xin Electronic Technology (Tianjin) Limited
,Le Shi Building, No.105 Yaojiayuan Road,Chaoyang District,Beijing,China
beijing beijing 100025

CN

E4-47-90 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
E44790 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG
GUAN GUANG DONG 523860
CN

38-45-4C (hex) Light Labs, Inc.
38454C (base 16) Light Labs, Inc.
636 Ramona St.
Palo Alto CA 94301
US

F4-96-51 (hex) NAKAYO Inc
F49651 (base 16) NAKAYO Inc
1-3-2, Soja-machi
Maebashi-shi Gunma 371-0853
JP

44-62-46 (hex) Comat AG
446246 (base 16) Comat AG
Bernstrasse 4
Worb 3076
CH

34-FC-B9 (hex) Hewlett Packard Enterprise
34FCB9 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

CC-B8-A8 (hex) AMPAK Technology, Inc.
CCB8A8 (base 16) AMPAK Technology, Inc.
No.1,Jen Ai Road Hsinchu Industrial Park, Hukou
Hsinchu Taiwan ROC. 30352
TW

34-04-9E (hex) IEEE Registration Authority
34049E (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

94-FB-29 (hex) Zebra Technologies Inc.
94FB29 (base 16) Zebra Technologies Inc.
ONE ZEBRA PLAZA

HOLTSVILLE
NY 11742
US

B0-70-2D (hex) Apple, Inc.
B0702D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

6C-19-C0 (hex) Apple, Inc.
6C19C0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E0-2A-82 (hex) Universal Global Scientific Industrial Co., Ltd.
E02A82 (base 16) Universal Global Scientific Industrial Co., Ltd.
141, LANE 351,SEC.1, TAIPING RD.
TSAOTUEN, NANTOU 54261
TW

98-D2-93 (hex) Google, Inc.
98D293 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

00-DB-DF (hex) Intel Corporate
00DBDF (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

94-A0-4E (hex) Bostex Technology Co., LTD
94A04E (base 16) Bostex Technology Co., LTD
NO.148 West MinZhou Road
Cixi City Zhejiang Province 315301
CN

B0-F9-63 (hex) Hangzhou H3C Technologies Co., Limited
B0F963 (base 16) Hangzhou H3C Technologies
Co., Limited
466 Changhe Road, Binjiang District
Hangzhou Zhejiang, P.R.China 310052
CN

D4-90-E0 (hex) Topcon Electronics GmbH & Co. KG

D490E0 (base 16) Topcon Electronics GmbH & Co. KG
Industriestraße 7
Geisenheim 65366
DE

A8-40-41 (hex) Dragino Technology Co., Limited
A84041 (base 16) Dragino Technology Co., Limited
303, Block B, No 8; 349, Jian'An 1 Road,Bao'An
Shenzhen GuangDong 518101
CN

80-D4-A5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
80D4A5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-B0-E7 (hex) HUAWEI TECHNOLOGIES CO.,LTD
04B0E7 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

44-6A-2E (hex) HUAWEI TECHNOLOGIES CO.,LTD
446A2E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology
Park
Dongguan 523808
CN

A0-6F-AA (hex) LG Innotek
A06FAA (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

00-26-AB (hex) Seiko Epson Corporation
0026AB (base 16) Seiko Epson Corporation
3-3-5 OWA
SUWA-SHI NAGANO-KEN 392-8502
JP

00-08-94 (hex) InnoVISION Multimedia Ltd.
000894 (base 16) InnoVISION Multimedia Ltd.
Rm 608, 6/F Tins Enterprises Centre,
Kowloon,
HK

8C-E1-17 (hex) zte corporation
8CE117 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

68-8A-F0 (hex) zte corporation
688AF0 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

C0-21-0D (hex) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
C0210D (base 16) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
Bldg56A,6/F,Baotian Rd3,Xixiang Town,Baoan District,
Shenzhen
Guangdong 518000
CN

4C-E2-F1 (hex) Udino srl
4CE2F1 (base 16) Udino srl
Via Amedeo Avogadro 24
Torino 10121
IT

10-77-B0 (hex) Fiberhome Telecommunication Technologies Co.,LTD
1077B0 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

F0-1D-BC (hex) Microsoft Corporation
F01DBC (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

B0-EE-7B (hex) Roku, Inc
B0EE7B (base 16) Roku, Inc
1155 Coleman Ave
San Jose CA 95110
US

50-4B-5B (hex) CONTROLtronic GmbH
504B5B (base 16) CONTROLtronic GmbH
Schragenhofstr. 35
Munich 80992
DE

B4-74-47 (hex) CoreOS
B47447 (base 16) CoreOS
PO Box 7775 #55097
San Francisco CA 94120-7775
US

AC-58-7B (hex) JCT Healthcare
AC587B (base 16) JCT Healthcare
1/25 London Road
Mile End South South Australia 5031
AU

10-62-EB (hex) D-Link
International
1062EB (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy, Singapore
Singapore Singapore 609917
SG

FC-10-C6 (hex) Taicang T&W Electronics
FC10C6 (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

00-0B-4F (hex) Verifone
000B4F (base 16) Verifone
2099 Gateway Place
San Jose 95110
US

60-C7-98 (hex) Verifone
60C798 (base 16) Verifone
2455 Augustine Drive
Santa Clara California 95054

C8-66-2C (hex) Beijing Haitai Fangyuan High Technology Co,.Ltd.
C8662C (base 16) Beijing Haitai Fangyuan High Technology Co,.Ltd.
B1st&2nd floor,Unit ENO.9 Building,Zhongguancun Software Park,Dongbeiwang West Road 8.Haidian District,Beijing
Bei Jing 100094
CN

D0-58-A8 (hex) zte corporation
D058A8 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China

shenzhen guangdong 518057
CN

D0-71-C4
(hex) zte corporation
D071C4 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

B4-B3-84 (hex) ShenZhen Figigantic Electronic Co.,Ltd
B4B384 (base 16) ShenZhen Figigantic Electronic Co.,Ltd
5F NO.1 Bld East,Guole Industrial Zone,Lirong Road,Longhua New
ShenZhen GuangDong 518109
CN

2C-6F-C9 (hex) Hon Hai Precision Ind. Co.,Ltd.
2C6FC9 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

80-96-CA (hex) Hon Hai Precision Ind. Co.,Ltd.
8096CA (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

18-65-71 (hex) Top Victory Electronics (Taiwan) Co., Ltd.
186571 (base 16) Top Victory Electronics (Taiwan) Co., Ltd.
14F,No.166,Jian 1st Rd
New Taipei City Taiwan 23511
TW

F8-3F-51 (hex) Samsung Electronics
Co.,Ltd
F83F51 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

50-D7-53 (hex) CONELCOM GmbH
50D753 (base 16) CONELCOM GmbH
Trientlgasse 18c
Innsbruck 6020
AT

0C-C4-7A (hex) Super Micro Computer, Inc.

0CC47A (base 16) Super Micro Computer, Inc.
980 Rock Avenue
San Jose California 95131
US

34-D2-70 (hex) Amazon Technologies Inc.
34D270 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

78-28-CA (hex) Sonos, Inc.
7828CA (base 16) Sonos, Inc.
614 Chapala St
Santa Barbara CA 93101
US

A0-CC-2B (hex) Murata Manufacturing Co., Ltd.
A0CC2B (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

00-23-D2 (hex) Inhand Electronics, Inc.
0023D2 (base 16) Inhand Electronics, Inc.
30 West Gude Drive
Rockville Maryland 20850
US

00-27-1C (hex) MERCURY
CORPORATION
00271C (base 16) MERCURY CORPORATION
90, Gajaeul-ro, Seo-gu
INCHEON 22830
KR

E0-D9-E3 (hex) Eltex Enterprise Ltd.
E0D9E3 (base 16) Eltex Enterprise Ltd.
Okruzhnaya st. 29v
Novosibirsk 630020
RU

6C-A7-FA (hex) YOUNGBO ENGINEERING INC.
6CA7FA (base 16) YOUNGBO ENGINEERING INC.
132, Haewian-gil, Dunpo-myeon
Asan-si Chungcheongnam-do 336-873
KR

8C-7E-B3 (hex) Lytro, Inc.
8C7EB3 (base 16) Lytro, Inc.
1300 Terra Bella Avenue
Mountain View California 94043
US

80-5E-C0 (hex) YEALINK(XIAMEN) NETWORK TECHNOLOGY CO.,LTD.
805EC0 (base 16) YEALINK(XIAMEN) NETWORK TECHNOLOGY CO.,LTD.
309, 3th Floor, No.16, Yun Ding North Road, Huli District
xiamen Fujian 361015
CN

00-C0-03 (hex) GLOBALNET COMMUNICATIONS
00C003 (base 16) GLOBALNET COMMUNICATIONS
912, PLACE TRANS CANADA
CANADA J4G 2M1
CA

00-23-4A (hex) Private
00234A (base 16) Private

1C-40-E8
(hex) SHENZHEN PROGRESS&WIN TECHNOLOGY CO.,LTD
1C40E8 (base 16) SHENZHEN PROGRESS&WIN TECHNOLOGY CO.,LTD
9F, K1 Mall, Xinsha street, Shajing District, Baoan
Shenzhen Guangdong 518000
CN

2C-40-2B (hex) Smart iBlue Technology Limited
2C402B (base 16) Smart iBlue Technology Limited
Unit 12, 10/F., Hong Man Industrial Centre,2 Hong Man Street, Chai Wan, Hong Kong
Hong Kong 000
HK

5C-6B-4F (hex) Hello Inc.
5C6B4F (base 16) Hello Inc.
438 Shotwell Street
San Francisco CA 94110
US

50-79-5B (hex) Interexport Telecomunicaciones S.A.
50795B (base 16) Interexport Telecomunicaciones S.A.
Cerro Colorado 5240 piso 14
Santiago Region Metropolitana 8320000
US

00-16-D9 (hex) NINGBO BIRD CO.,LTD.
0016D9 (base 16) NINGBO BIRD CO.,LTD.

No.999 Dacheng East Road
Fenghua Zhejiang 315500
CN

50-01-D9 (hex) HUAWEI TECHNOLOGIES CO.,LTD
5001D9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2
Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

2C-99-24 (hex) ARRIS Group, Inc.
2C9924 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

A8-E7-05 (hex) Fiberhome Telecommunication Technologies Co.,LTD
A8E705 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

60-A4-D0 (hex) Samsung Electronics Co.,Ltd
60A4D0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-7B-18 (hex) SENTRY Co., LTD.
007B18 (base 16) SENTRY Co., LTD.
792,Pyeongcheon-ro,Wonmi-gu
Bucheon-si, Gyeonggi-do 420-805
KR

14-4D-67 (hex) Zioncom Electronics (Shenzhen) Ltd.
144D67 (base 16) Zioncom Electronics (Shenzhen) Ltd.
A1&A2 Building,Lantian Technology Park, Xinyu Road, Xingqiao Henggang Block, Shajing Street, Baoan District
Shenzhen Guangdong 518000
CN

4C-E1-73
(hex) IEEE Registration Authority
4CE173 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

0C-D8-6C (hex) SHENZHEN FAST TECHNOLOGIES CO.,LTD
0CD86C (base 16) SHENZHEN FAST TECHNOLOGIES CO.,LTD
Room 202,Building No.5,Section 30,No.2 of Kefa Road,Nanshan District,Shenzhen,P.R.China
Shenzhen Guangdong 518057
CN

88-6B-0F (hex) Bluegiga Technologies OY
886B0F (base 16) Bluegiga Technologies OY
P.O. BOX 120
FIN-02631 Espoo
FI

AC-84-C9 (hex) Sagemcom Broadband SAS
AC84C9 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

9C-62-AB (hex) Sumavision Technologies Co.,Ltd
9C62AB (base 16) Sumavision Technologies Co.,Ltd
6F, Block A2, Power Creative Building,No.1 Shangdi East Road, Haidian District
Beijing 100085
CN

18-8B-15 (hex) ShenZhen ZhongRuiJing Technology co.,LTD
188B15 (base 16) ShenZhen
ZhongRuiJing Technology co.,LTD
4th Floor,Building 3,Meng Liyuan Industrial Park, Yousong Road, Longhua New District,Shenzhen,Guangdong Province,China
Shenzhen Guangdong 518109
CN

04-97-90 (hex) Lartech telecom LLC
049790 (base 16) Lartech telecom LLC
Bolshoi Sampsonievski 68, lit. N, office 237
Saint-Petersburg 194100
RU

28-EE-D3 (hex) Shenzhen Super D Technology Co., Ltd
28EED3 (base 16) Shenzhen Super D Technology Co., Ltd
Room 201 , Building A former Qianhai Shenzhen-Hong Kong cooperation zone Shenzhen Bay all the way to No. 1 (settled in Shenzhen Qianhai Business Secretary , Ltd.)
Shenzhen Guangdong 518000
CN

24-C4-4A (hex) zte corporation
24C44A (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China

shenzhen guangdong 518057
CN

98-54-1B (hex) Intel Corporate
98541B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-60-D6
(hex) NovAtel Inc.
0060D6 (base 16) NovAtel Inc.
SUITE 200, 6715-8TH STREET NE
CALGARY, ALBERTA T2E 8M4 0000
CA

DC-0B-34 (hex) LG Electronics (Mobile Communications)
DC0B34 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

B0-95-8E (hex) TP-LINK TECHNOLOGIES CO.,LTD.
B0958E (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

C0-25-E9 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
C025E9 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

40-4E-36 (hex) HTC Corporation
404E36 (base 16) HTC Corporation
No. 23, Xinghua Rd., Taoyuan City
Taoyuan County Taiwan 330
TW

2C-33-61 (hex) Apple, Inc.
2C3361
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C8-F9-46 (hex) LOCOSYS Technology Inc.

C8F946 (base 16) LOCOSYS Technology Inc.
20F.-13, No. 79, Sec. 1, Xintai 5th Rd, Xizhi Dist.
New Taipei City Taiwan 22101
TW

00-13-7E (hex) CorEdge Networks, Inc.
00137E (base 16) CorEdge Networks, Inc.
7600 Boone Ave N
Brooklyn Park MN 55428
US

D8-14-D6 (hex) SURE SYSTEM Co Ltd
D814D6 (base 16) SURE SYSTEM Co Ltd
Bakurou-machi 4-7-5
Cyuou-ku Osaka 541-0059
JP

6C-EF-C6 (hex) SHENZHEN TWOWING TECHNOLOGIES CO.,LTD.
6CEFC6 (base 16) SHENZHEN TWOWING TECHNOLOGIES CO.,LTD.
Nangang Industrial Building, Tangtou Industrial Park, Shiyan, Baoan
Shenzhen Guangdong 518108
CN

10-1D-C0 (hex) Samsung Electronics Co.,Ltd
101DC0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-87-01 (hex) Samsung Electronics Co.,Ltd
008701 (base 16) Samsung
Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

5C-99-60 (hex) Samsung Electronics Co.,Ltd
5C9960 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

24-5C-BF (hex) NCSE
245CBF (base 16) NCSE
Future of China Electronics Science & Technology
Beijing Changping District 102200
CN

48-7B-6B (hex) HUAWEI TECHNOLOGIES CO.,LTD
487B6B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

88-3F-D3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
883FD3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

5C-A9-33 (hex) Luma Home
5CA933 (base 16) Luma Home
75 5th St
Atlanta GA 30308
US

C8-02-8F (hex) Nova Electronics (Shanghai) Co., Ltd.
C8028F (base 16) Nova Electronics (Shanghai) Co., Ltd.
Room
B706, 7th Floor, MET Plaza, No.268 Tongxie Road
Shanghai Changning District 200335
CN

00-0B-14 (hex) ViewSonic Corporation
000B14 (base 16) ViewSonic Corporation
381 Brea Canyon Road
Walnut California 91789
US

A4-60-11 (hex) Verifone
A46011 (base 16) Verifone
2099 Gateway Place
San Jose CA 95110
US

24-0D-65 (hex) Shenzhen Vsun Communication Technology Co., Ltd.
240D65 (base 16) Shenzhen Vsun Communication Technology Co., Ltd.
3/F., 19 Block, Wisdomland Business Park, No.2 Nantou Gateway Road, Nanshan District
Shenzhen Guangdong 518000
CN

00-23-41 (hex) Vanderbilt International (SWE) AB
002341 (base 16) Vanderbilt International (SWE) AB
Englundavaegen 7
Solna SE-171 41
SE

40-7C-7D (hex) Nokia
407C7D (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

24-59-0B (hex) White Sky Inc. Limited
24590B (base 16) White Sky Inc. Limited
Floor 5,
Building 1, No. 6, Lane 365, Xinhua Road
Shanghai 200052
CN

14-33-65 (hex) TEM Mobile Limited
143365 (base 16) TEM Mobile Limited
RM1703, North Block, Cangsong Building, Tairan 6 road, Futian District, Shenzhen.
Shenzhen Guangdong 518000
CN

78-47-1D (hex) Samsung Electronics Co.,Ltd
78471D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A0-75-91 (hex) Samsung Electronics Co.,Ltd
A07591 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

0C-DF-A4 (hex) Samsung Electronics Co.,Ltd
0CDFA4 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

68-EB-AE (hex) Samsung Electronics Co.,Ltd
68EBAE (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

44-4E-1A (hex) Samsung Electronics Co.,Ltd
444E1A (base 16) Samsung Electronics Co.,Ltd
#94-1,

Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D8-EC-5E (hex) Belkin International Inc.
D8EC5E (base 16) Belkin International Inc.
12045 East Waterfront Drive
Playa Vista null 90094
US

E8-9F-80 (hex) Belkin International Inc.
E89F80 (base 16) Belkin International Inc.
12045 East Waterfront Drive
Playa Vista null 90094
US

00-50-CB (hex) Bucher Automation AG
0050CB (base 16) Bucher Automation AG
GRAETERSTRASSE 2
Ludwigsburg 71642
DE

B0-72-BF (hex) Murata Manufacturing Co., Ltd.
B072BF (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

6C-DE-A9 (hex) Cisco Meraki
6CDEA9 (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco null 94158
US

A8-46-9D (hex) Cisco Meraki
A8469D (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco null 94158
US

58-EF-68 (hex) Belkin International Inc.
58EF68
(base 16) Belkin International Inc.
12045 East Waterfront Drive
Playa Vista null 90094
US

CC-03-D9 (hex) Cisco Meraki

CC03D9 (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco null 94158
US

0C-8D-DB (hex) Cisco Meraki
0C8DDB (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco null 94158
US

70-1D-C4 (hex) NorthStar Battery Company, LLC
701DC4 (base 16) NorthStar Battery Company, LLC
4000 Continental Way
Springfield MO 65803
US

5C-86-13 (hex) Beijing Zhoenet Technology Co., Ltd
5C8613 (base 16) Beijing Zhoenet Technology Co., Ltd
Room B16,No. 8 WenHua East Road,Changping District
Beijing Beijing 102208
CN

CC-73-14 (hex) HONG KONG WHEATEK TECHNOLOGY LIMITED
CC7314 (base 16) HONG KONG WHEATEK TECHNOLOGY LIMITED
Building 20No.2277, ZuChongZhi Road, PuDong District, Shanghai
shanghai 201203
CN

B8-EE-65 (hex) Liteon Technology
Corporation
B8EE65 (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road,ChungHo,Taipei Hsien,Taiwan,
TaiPei TaiWan 23585
TW

98-5B-B0 (hex) KMDATA INC.
985BB0 (base 16) KMDATA INC.
505-2, Daeryung Techno Town 1cha, 18, Gasan Digital 2-ro, Geumcheon-gu
Seoul 153771
KR

00-11-FF (hex) Digitro Tecnologia Ltda
0011FF (base 16) Digitro Tecnologia Ltda
Rua: Professora Sofia Quint de Souza, 167
Florianópolis Santa Catarina 88085-040
BR

14-B8-37 (hex) Shenzhen YOUHUA Technology Co., Ltd
14B837 (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

5C-A3-9D (hex) SAMSUNG ELECTRO MECHANICS CO., LTD.
5CA39D (base 16) SAMSUNG ELECTRO MECHANICS CO., LTD.
314, Maetan3-Dong, Yeongtong-Gu
Suwon 443-743
US

90-18-7C (hex) SAMSUNG ELECTRO MECHANICS CO., LTD.
90187C (base
16) SAMSUNG ELECTRO MECHANICS CO., LTD.
314, Maetan3-Dong, Yeongtong-Gu
Suwon KYUNGGI-DO 443-743
KR

A4-17-31 (hex) Hon Hai Precision Ind. Co.,Ltd.
A41731 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

E0-06-E6 (hex) Hon Hai Precision Ind. Co.,Ltd.
E006E6 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

BC-85-56 (hex) Hon Hai Precision Ind. Co.,Ltd.
BC8556 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

34-23-87 (hex) Hon Hai Precision Ind. Co.,Ltd.
342387 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

64-DA-A0 (hex) Robert Bosch Smart Home GmbH
64DAA0 (base 16) Robert Bosch Smart Home GmbH
Schockenriedstraße 17
Stuttgart

70565
DE

E4-7C-F9 (hex) Samsung Electronics Co.,Ltd
E47CF9 (base 16) Samsung Electronics Co.,Ltd
416, Maetan-3dong, Yeongtong-gu
Suwon Gyeonggi-do 443742
KR

48-44-F7 (hex) Samsung Electronics Co.,Ltd
4844F7 (base 16) Samsung Electronics Co.,Ltd
416, Maetan-3dong, Yeongtong-gu
Suwon Gyeonggi-do 443742
KR

00-13-77 (hex) Samsung Electronics Co.,Ltd
001377 (base 16) Samsung Electronics Co.,Ltd
416, Maetan 3Dong, Yeongtong-Gu
Suwon Geyonggi 443742
KR

00-24-54 (hex) Samsung Electronics Co.,Ltd
002454 (base 16) Samsung Electronics Co.,Ltd
416, Maetan 3Dong, Yeongtong-Gu
Suwon Geyonggi 443742
KR

E8-11-32 (hex) Samsung Electronics Co.,Ltd
E81132 (base 16) Samsung Electronics Co.,Ltd
416, Maetan 3Dong, Yeongtong-Gu
Suwon Geyonggi 443742
KR

50-B7-C3 (hex) Samsung Electronics Co.,Ltd
50B7C3 (base 16) Samsung Electronics Co.,Ltd
416, Maetan 3Dong, Yeongtong-Gu
Suwon
Geyonggi 443742
KR

1C-5A-3E (hex) Samsung Electronics Co.,Ltd
1C5A3E (base 16) Samsung Electronics Co.,Ltd
416, Maetan 3dong, Yeongtong-Gu
Suwon 443742
US

A0-21-95 (hex) Samsung Electronics Co.,Ltd
A02195 (base 16) Samsung Electronics Co.,Ltd

#416, Maetan 3-dong
Suwon-si Gyeonggi-do 443-742
KR

50-CC-F8 (hex) SAMSUNG ELECTRO MECHANICS CO., LTD.
50CCF8 (base 16) SAMSUNG ELECTRO MECHANICS CO., LTD.
Metan Dong 314, Youngtong Gu
Suwon Kyung-gi Do. 443-743
KR

00-26-37 (hex) SAMSUNG ELECTRO MECHANICS CO., LTD.
002637 (base 16) SAMSUNG ELECTRO MECHANICS CO., LTD.
314, Metan dong
Suwon Kyung-ki do 443-743
KR

00-21-19 (hex) SAMSUNG ELECTRO MECHANICS CO., LTD.
002119 (base 16) SAMSUNG ELECTRO MECHANICS CO., LTD.
314, Metan 3 dong
Suwon Kyung-gi do 443-743
KR

F4-D9-FB (hex) Samsung Electronics Co.,Ltd
F4D9FB (base 16) Samsung Electronics Co.,Ltd
416, Maetan-3dong,
Yeongtong-gu,
Suwon Gyeonggi-do 443-742
KR

3C-62-00 (hex) Samsung Electronics Co.,Ltd
3C6200 (base 16) Samsung Electronics Co.,Ltd
416, Maetan-3dong, Yeongtong-gu,
Suwon-City Gyeonggi-do 443-742
KR

F0-7B-CB (hex) Hon Hai Precision Ind. Co.,Ltd.
F07BCB (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

C4-17-FE (hex) Hon Hai Precision Ind. Co.,Ltd.
C417FE (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

94-39-E5 (hex) Hon Hai Precision Ind. Co.,Ltd.

9439E5 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

64-27-37 (hex) Hon Hai Precision Ind. Co.,Ltd.
642737 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

C0-F8-DA
(hex) Hon Hai Precision Ind. Co.,Ltd.
C0F8DA (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

F0-F0-02 (hex) Hon Hai Precision Ind. Co.,Ltd.
F0F002 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

C0-CB-38 (hex) Hon Hai Precision Ind. Co.,Ltd.
C0CB38 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

00-1B-94 (hex) T.E.M.A. S.p.A.
001B94 (base 16) T.E.M.A. S.p.A.
via della Scienza 21 A/C
Castelnuovo Rangone Modena 41051
IT

00-22-3B (hex) Communication Networks, LLC
00223B (base 16) Communication Networks, LLC
3 Corporate Drive
Danbury CT 06810
US

10-D5-42 (hex) Samsung Electronics Co.,Ltd
10D542 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A0-82-1F
(hex) Samsung Electronics Co.,Ltd
A0821F (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F0-6B-CA (hex) Samsung Electronics Co.,Ltd
F06BCA (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

AC-36-13 (hex) Samsung Electronics Co.,Ltd
AC3613 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

BC-8C-CD (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
BC8CCD (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak
Bangpakong 24180
US

D0-22-BE (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
D022BE (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak
Bangpakong 24180
US

EC-9B-F3 (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
EC9BF3 (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak
Bangpakong Chachoengsao 24180
TH

F4-09-D8 (hex) SAMSUNG
ELECTRO-MECHANICS(THAILAND)
F409D8 (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak
Bangpakong Chachoengsao 24180
TH

18-D2-76 (hex) HUAWEI TECHNOLOGIES CO.,LTD
18D276 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

4C-3C-16 (hex) Samsung Electronics Co.,Ltd
4C3C16 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-73-E0 (hex) Samsung Electronics Co.,Ltd
0073E0 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

34-31-11 (hex) Samsung Electronics Co.,Ltd
343111 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

08-FD-0E (hex) Samsung Electronics Co.,Ltd
08FD0E (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

04-1B-BA (hex) Samsung Electronics Co.,Ltd
041BBA
(base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

88-9B-39 (hex) Samsung Electronics Co.,Ltd
889B39 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E4-32-CB (hex) Samsung Electronics Co.,Ltd
E432CB (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B0-78-70 (hex) Wi-NEXT, Inc.
B07870 (base 16) Wi-NEXT, Inc.
530 Lytton Avenue

Palo Alto CA 94301
US

00-17-D5 (hex) Samsung Electronics Co.,Ltd
0017D5 (base 16) Samsung Electronics Co.,Ltd
#94-1
Gumi-City Gyeong-Buk 730-350
KR

00-1E-7D (hex) Samsung Electronics Co.,Ltd
001E7D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-1D-F6 (hex) Samsung Electronics Co.,Ltd
001DF6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

94-35-0A
(hex) Samsung Electronics Co.,Ltd
94350A (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C0-65-99 (hex) Samsung Electronics Co.,Ltd
C06599 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

BC-79-AD (hex) Samsung Electronics Co.,Ltd
BC79AD (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F0-E7-7E (hex) Samsung Electronics Co.,Ltd
F0E77E (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F0-08-F1 (hex) Samsung Electronics Co.,Ltd
F008F1 (base 16) Samsung Electronics Co.,Ltd

#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

58-C3-8B (hex) Samsung Electronics Co.,Ltd
58C38B (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F0-03-8C (hex) AzureWave Technology Inc.
F0038C (base 16) AzureWave
Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

00-E3-B2 (hex) Samsung Electronics Co.,Ltd
00E3B2 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

30-19-66 (hex) Samsung Electronics Co.,Ltd
301966 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-1D-25 (hex) Samsung Electronics Co.,Ltd
001D25 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B0-F8-93 (hex) Shanghai MXCHIP Information Technology Co., Ltd.
B0F893 (base 16) Shanghai MXCHIP Information Technology Co., Ltd.
9th Floor, No. 5 Building, 2145 Jinshajiang Rd., Putuo District
Shanghai 200333
CN

00-1E-81 (hex) CNB Technology Inc.
001E81 (base 16) CNB Technology Inc.
#701 Star Valley, 60-11 Gasan-Dong,
Seoul 153777
KR

7C-A9-7D (hex) Objenious

7CA97D (base 16) Objenious
20
rue de Troyon
SEVRES 92310
FR

A8-A6-48 (hex) Qingdao Hisense Communications Co.,Ltd.
A8A648 (base 16) Qingdao Hisense Communications Co.,Ltd.
Jiangxi Road
Qingdao Shandong 266071
CN

84-EF-18 (hex) Intel Corporate
84EF18 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

A8-1B-6A (hex) Texas Instruments
A81B6A (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

98-5D-AD (hex) Texas Instruments
985DAD (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

D4-36-39 (hex) Texas Instruments
D43639 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

BC-28-2C (hex) e-Smart Systems Pvt. Ltd
BC282C (base 16) e-Smart Systems Pvt. Ltd
483 FIE, , Patparganj Industrial Area
Delhi Delhi 110092
IN

E4-C1-F1 (hex) SHENZHEN SPOTMAU INFORMATION TECHNOLIGY CO., Ltd
E4C1F1 (base 16) SHENZHEN SPOTMAU
INFORMATION TECHNOLIGY CO., Ltd
10F, Block D, 5th Building, Shenzhen Software Industrial Base, Haitian 2nd Rd,Nanshan District
Shenzhen Guangdong 518057
CN

24-0A-C4 (hex) Espressif Inc.
240AC4 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

00-52-18 (hex) Wuxi Keboda Electron Co.Ltd
005218 (base 16) Wuxi Keboda Electron Co.Ltd
No.155 Chunhui Road, Xishan District,
Wuxi Jiangsu 214101
CN

00-50-94 (hex) ARRIS Group, Inc.
005094 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

E0-B7-B1 (hex) ARRIS Group, Inc.
E0B7B1 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

D8-25-22 (hex) ARRIS Group, Inc.
D82522 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

28-C8-7A (hex) ARRIS Group, Inc.
28C87A (base 16) ARRIS Group, Inc.
6450 Sequence
Drive
San Diego CA 92121
US

C4-11-E0 (hex) Bull Group Co., Ltd
C411E0 (base 16) Bull Group Co., Ltd
No.32 Sanhai Road,East Guanhaiwei Industrial Zone, Cixi City, Zhejiang, P.R.China
Cixi Zhejiang 315314
CN

34-3D-C4 (hex) BUFFALO.INC
343DC4 (base 16) BUFFALO.INC
AKAMONDORI Bld.,30-20,Ohsu 3-chome,Naka-ku
Nagoya Aichi Pref. 460-8315

JP

00-26-11 (hex) Licera AB
002611 (base 16) Licera AB
Teknikringen 1C
Linköping 58330
SE

48-FD-8E (hex) HUAWEI TECHNOLOGIES CO.,LTD
48FD8E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

7C-06-23 (hex) Ultra Electronics Sonar System Division
7C0623 (base 16) Ultra Electronics Sonar System Division
419 Bridport Road
Greenford Middlesex UB6 8UA
GB

00-12-6C (hex) Visonic Technologies 1993 Ltd.
00126C (base 16) Visonic Technologies 1993 Ltd.
24 Habarzel
St.
Tel Aviv 69710
IL

A4-0D-BC (hex) Xiamen Intretech Inc.
A40DBC (base 16) Xiamen Intretech Inc.
FL 7 NO 588 JIAHE RD TORCH CARDEN HIGH-TECH ZONE
Xiamen FUJIAN 361006
CN

64-12-69 (hex) ARRIS Group, Inc.
641269 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-02-C9 (hex) Mellanox Technologies, Inc.
0002C9 (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

28-AC-67 (hex) Mach Power, Rappresentanze Internazionali s.r.l.
28AC67 (base 16) Mach Power, Rappresentanze Internazionali s.r.l.
CUPA S.ANIELLO, 112

NAPOLI Napoli 80146
IT

00-80-C7 (hex) XIRCOM
0080C7 (base 16) XIRCOM
26025 MUREAU ROAD
CALABASAS CA 91302
US

00-01-38 (hex) XAVi Technologies Corp.
000138 (base 16) XAVi Technologies Corp.
9F, No. 129, Hsing Te Rd,
241 TAIWAN 241 TAIWAN R.O.C.
TW

00-16-6D (hex) Yulong
Computer Telecommunication Scientific (Shenzhen) Co.,Ltd
00166D (base 16) Yulong Computer Telecommunication Scientific (Shenzhen) Co.,Ltd
8/F.high Tech Plaza,TianAn Cyberpark,Chegongmiao
Shenzhen Guangdong 518040
CN

3C-91-57 (hex) Yulong Computer Telecommunication Scientific (Shenzhen) Co.,Ltd
3C9157 (base 16) Yulong Computer Telecommunication Scientific (Shenzhen) Co.,Ltd
5F Building 2,No.56,Liuhe Road,Xihu District
Hangzhou Zhejiang 310023
CN

14-82-5B (hex) Hefei Radio Communication Technology Co., Ltd
14825B (base 16) Hefei Radio Communication Technology Co., Ltd
No.108, YinXing Road, High-tech Development Zone, Hefei, Anhui Province, China
Hefei Anhui Province 230088
CN

AC-61-75 (hex) HUAWEI TECHNOLOGIES CO.,LTD
AC6175 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

24-44-27 (hex) HUAWEI TECHNOLOGIES CO.,LTD
244427 (base
16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-00-D8 (hex) Novell, Inc.

0000D8 (base 16) Novell, Inc.
122 EAST 1700 SOUTH M/S:E-12-1
PROVO UT 84601
US

00-1F-46 (hex) Nortel Networks
001F46 (base 16) Nortel Networks
2221 Lakeside Blvd
Richardson 75082
US

00-30-93 (hex) Sonnet Technologies, Inc
003093 (base 16) Sonnet Technologies, Inc
8 Autry
Irvine, CA 92618
US

00-03-4B (hex) Nortel Networks
00034B (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

08-00-51 (hex) ExperData
080051 (base 16) ExperData
88, RUE BRILLAT SAVARIN
0000 0000
FR

00-25-61 (hex) ProCurve Networking by HP
002561 (base 16) ProCurve Networking by HP
60 Alexandra Terrace
0000 118502
SG

00-80-58 (hex) PRINTER SYSTEMS CORP.
008058 (base 16) PRINTER SYSTEMS CORP.
207 PARRY
PARKWAY
GAITHERSBURG MD 20877
US

00-15-7D (hex) POSDATA
00157D (base 16) POSDATA
276-2,Seohyeon-dong,Bundang-gu,
Seongnam-City Kyeonggi-Do 463-775
KR

48-49-C7 (hex) Samsung Electronics Co.,Ltd
4849C7 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

84-98-66 (hex) Samsung Electronics Co.,Ltd
849866 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-1B-25 (hex) Nortel Networks
001B25 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-19-E1 (hex) Nortel Networks
0019E1 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-1D-42 (hex) Nortel Networks
001D42 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-0E-40 (hex) Nortel Networks
000E40 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-1C-9C
(hex) Nortel Networks
001C9C (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

18-80-F5 (hex) Alcatel-Lucent Shanghai Bell Co., Ltd
1880F5 (base 16) Alcatel-Lucent Shanghai Bell Co., Ltd
No. 389, Ningqiao Road, Pudong Jinqiao
Shanghai 201206
CN

00-14-0D (hex) Nortel Networks
00140D (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

10-E8-78 (hex) Nokia
10E878 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

FC-B0-C4 (hex) Shanghai DareGlobal Technologies Co.,Ltd
FCB0C4 (base 16) Shanghai DareGlobal Technologies Co.,Ltd
22F Info-Tech Building
Shanghai Shanghai 200092
CN

A8-9D-D2 (hex) Shanghai DareGlobal Technologies Co.,Ltd
A89DD2 (base 16) Shanghai DareGlobal Technologies Co.,Ltd
22F Info-Tech Building
Shanghai Shanghai 200092
CN

00-E0-0F (hex) Shanghai Baud Data Communication Co.,Ltd.
00E00F (base
16) Shanghai Baud Data Communication Co.,Ltd.
COMMUNICATION DEVELOPMENT CORP
SHANGHAI 0000
CN

28-BE-03 (hex) TCT mobile ltd
28BE03 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

90-3A-E6 (hex) PARROT SA
903AE6 (base 16) PARROT SA
174 Quai de Jemmapes
Paris 75010
FR

A0-98-ED (hex) Shandong Intelligent Optical Communication Development Co., Ltd.
A098ED (base 16) Shandong Intelligent Optical Communication Development Co., Ltd.
No.149 Yingcui Road,Torch Town,Advanced Technique Development Area
Jining Shandong 272023

CN

00-0E-F4 (hex) Kasda Networks Inc
000EF4 (base 16) Kasda Networks Inc
B-31 Building, Tanglang Industry Zone
Shenzhen Guangdong Province 518055
CN

00-22-80 (hex) A2B Electronics AB
002280 (base 16) A2B Electronics AB
Box 14
Motala S-591 21
SE

40-4A-D4 (hex) Widex A/S
404AD4 (base
16) Widex A/S
Nymoellevej 6
Lynge Alleroed DK3540
DK

98-93-CC (hex) LG ELECTRONICS INC
9893CC (base 16) LG ELECTRONICS INC
19-1, Cheongho-ri, Jinwi-myeon
Pyeongtaek-si Gyeonggi-do 451-713
KR

3C-CD-93 (hex) LG ELECTRONICS INC
3CCD93 (base 16) LG ELECTRONICS INC
19-1, CHEONGHO-RI, JINWI-MYEON
PYEONGTAEK GYEONGGI-DO 451-713
KR

20-21-A5 (hex) LG Electronics (Mobile Communications)
2021A5 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

6C-D6-8A (hex) LG Electronics (Mobile Communications)
6CD68A (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

00-16-7A (hex) Skyworth Overseas Development Ltd.
00167A (base 16) Skyworth Overseas Development Ltd.
Room 1505-06,Westlands Centre

0000 0000
HK

A4-29-40 (hex) Shenzhen YOUHUA Technology Co., Ltd
A42940 (base 16) Shenzhen
YOUHUA Technology Co., Ltd
Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

E4-A3-87 (hex) Control Solutions LLC
E4A387 (base 16) Control Solutions LLC
2520 Diehl Rd
Aurora IL 60502
US

00-24-83 (hex) LG Electronics (Mobile Communications)
002483 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

00-1F-E3 (hex) LG Electronics (Mobile Communications)
001FE3 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

2C-54-CF (hex) LG Electronics (Mobile Communications)
2C54CF (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

48-59-29 (hex) LG Electronics (Mobile Communications)
485929 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul
153-801
KR

CC-79-CF (hex) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
CC79CF (base 16) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
Bldg56A,6/F,Baotian Rd3,Xixiang Town,Baoan District,Shenzhen,P.R.C
ShenZhen Guangdong 518000
CN

00-19-25 (hex) Intelicis Corporation

001925 (base 16) Intelicis Corporation
4633 Old Ironsides Drive, Suite 150
Santa Clara CA 95054
US

94-76-B7 (hex) Samsung Electronics Co.,Ltd
9476B7 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F4-85-C6 (hex) FDT Technologies
F485C6 (base 16) FDT Technologies
14027 Memorial Drive #132
Houston TX 77024
US

00-19-AB (hex) Raycom CO ., LTD
0019AB (base 16) Raycom CO ., LTD
A,3-4/FL, Building 1,27 Chuangxin Road,
Beijing 102200
CN

4C-33-4E (hex) HIGHTECH
4C334E (base 16) HIGHTECH
No202.gsif, 4 Gyeonggang-ro 2326 beon-gil
Gangneung-si Gangwon-do 25570
KR

00-0F-62
(hex) Alcatel Bell Space N.V.
000F62 (base 16) Alcatel Bell Space N.V.
Berkenrodelei 33
Hoboken Antwerpen B-2660
BE

00-1C-D8 (hex) BlueAnt Wireless
001CD8 (base 16) BlueAnt Wireless
245 St.Kilda Rd, St Kilda
Melbourne Victoria 3182
AU

28-36-38 (hex) IEEE Registration Authority
283638 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

C8-8E-D1 (hex) IEEE Registration Authority
C88ED1 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

B0-1F-81 (hex) IEEE Registration Authority
B01F81 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

B8-D8-12 (hex) IEEE Registration Authority
B8D812 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

1C-21-D1 (hex) IEEE Registration Authority
1C21D1 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway
NJ 08554
US

7C-70-BC (hex) IEEE Registration Authority
7C70BC (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

E8-18-63 (hex) IEEE Registration Authority
E81863 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

28-6C-07 (hex) XIAOMI Electronics,CO.,LTD
286C07 (base 16) XIAOMI Electronics,CO.,LTD
Xiaomi Building, No.68 Qinghe Middle Street
Haidian District Beijing 100085
CN

F0-42-1C (hex) Intel Corporate
F0421C (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

2C-D1-41 (hex) IEEE Registration Authority
2CD141 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

3C-39-E7 (hex) IEEE Registration Authority
3C39E7 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

BC-66-41 (hex) IEEE Registration Authority
BC6641
(base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

80-E4-DA (hex) IEEE Registration Authority
80E4DA (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

88-5D-90 (hex) IEEE Registration Authority
885D90 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

58-A2-B5 (hex) LG Electronics (Mobile Communications)
58A2B5 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

10-F9-6F (hex) LG Electronics (Mobile Communications)
10F96F (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

C4-43-8F (hex) LG Electronics (Mobile Communications)
C4438F (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801

KR

A0-91-69 (hex) LG Electronics (Mobile Communications)
A09169
(base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

BC-C0-0F (hex) Fiberhome Telecommunication Technologies Co.,LTD
BCC00F (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

9C-A5-C0 (hex) vivo Mobile Communication Co., Ltd.
9CA5C0 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong 523860
CN

30-44-A1 (hex) Shanghai Nanchao Information Technology
3044A1 (base 16) Shanghai Nanchao Information Technology
Floor 1th, building 13, No.368 Zhangjiang Road, Pudong New District, Shanghai
shanghai 200000
CN

C8-75-5B (hex) Quantify Technology Pty. Ltd.
C8755B (base 16) Quantify Technology Pty. Ltd.
Suite 1, 4 Sarich Way
Bentley Western Australia 6102
AU

4C-66-41 (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
4C6641 (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T.
Bangsamak SEMTHAI, WELLGROW INDUSTRIAL ESTATE
Bangpakong Chachoengsao 24180
TH

70-E2-84 (hex) Wistron Infocomm (Zhongshan) Corporation
70E284 (base 16) Wistron Infocomm (Zhongshan) Corporation
No.38,East Keji Road,Zhongshan Torch Development Zone,Zhongshan City,Guangdong,China
Zhongshan Guangdong 528437
CN

A8-54-B2 (hex) Wistron Neweb Corporation
A854B2 (base 16) Wistron Neweb Corporation

20 Park Avenue II, Hsin Science Park, Hsinchu 308, Taiwan
HsinChu Taiwan 308
TW

E0-95-79 (hex) ORTHOsoft inc, d/b/a Zimmer CAS
E09579 (base 16) ORTHOsoft inc, d/b/a Zimmer CAS
75 Queen Street, Suite 3300
Montreal Quebec H3C 2N6
CA

A0-AD-A1 (hex) JMR Electronics, Inc
A0ADA1 (base 16) JMR Electronics, Inc
8968 Fullbright Avenue
Chatsworth California 91311
US

E0-AC-F1 (hex) Cisco Systems, Inc
E0ACF1 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose
CA 95134
US

00-14-28 (hex) Vocollect Inc
001428 (base 16) Vocollect Inc
703 Rodi Road
Pittsburgh PA 15235
US

00-6B-9E (hex) Vizio, Inc
006B9E (base 16) Vizio, Inc
39 Tesla
Irvine CA 92618
US

70-F3-95 (hex) Universal Global Scientific Industrial Co., Ltd.
70F395 (base 16) Universal Global Scientific Industrial Co., Ltd.
141, LANE 351,SEC.1, TAIPING RD.
TSAOTUEN, NANTOU 54261
TW

5C-A8-6A (hex) HUAWEI TECHNOLOGIES CO.,LTD
5CA86A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-C0-AB (hex) Telco Systems, Inc.

00C0AB (base 16) Telco Systems, Inc.
15 Berkshire Road
Mansfield MA 02048
US

90-A4-DE (hex) Wistron Neweb Corporation
90A4DE (base 16) Wistron Neweb Corporation
20 Park Avenue II, Hsinchu Science Park,
Hsinchu 308
TW

00-17-CA (hex) Qisda Corporation
0017CA (base
16) Qisda Corporation
157 Shan Ying Road,
GueiShan Taoyuan, 333
TW

00-15-B7 (hex) Toshiba
0015B7 (base 16) Toshiba
2-9,Suehiro-Cho
Ome 1988710
JP

E8-9D-87 (hex) Toshiba
E89D87 (base 16) Toshiba
2-9,Suehiro-Cho
Ome Tokyo 1988710
JP

00-01-5B (hex) ITALTEL S.p.A/RF-UP-I
00015B (base 16) ITALTEL S.p.A/RF-UP-I
20019 Cast.Settimo M.se (MI)

IT

00-A0-A8 (hex) RENEX CORPORATION
00A0A8 (base 16) RENEX CORPORATION
2750 KILLARNEY DRIVE
WOODBRIDGE VA 22192
US

88-12-4E (hex) Qualcomm Inc.
88124E (base 16) Qualcomm Inc.
1700 Technology Drive
San Jose CA 95110
US

00-1B-32 (hex) QLogic Corporation
001B32 (base 16) QLogic Corporation
26650 Aliso Viejo Parkway
Aliso Viejo CA 92656
US

00-1D-7E (hex) Cisco-Linksys, LLC
001D7E (base 16) Cisco-Linksys, LLC
121 Theory Drive
Irvine California 92612
US

E4-FB-8F (hex) MOBIWIRE
MOBILES (NINGBO) CO.,LTD
E4FB8F (base 16) MOBIWIRE MOBILES (NINGBO) CO.,LTD
No.999,Dacheng East Road,Fenghua City,Zhejiang Province,China.
Fenghua Zhejiang 315500
CN

10-BD-55 (hex) Q-Lab Corporation
10BD55 (base 16) Q-Lab Corporation
800 Canterbury Rd
Westlake OH 44145
US

C4-49-BB (hex) MITSUMI ELECTRIC CO.,LTD.
C449BB (base 16) MITSUMI ELECTRIC CO.,LTD.
2-11-2, Tsurumaki
Tama-shi Tokyo 206-8567
JP

FC-2D-5E (hex) zte corporation
FC2D5E (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

00-19-CB (hex) Zyxel Communications Corporation
0019CB (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

2C-09-4D (hex) Raptor Engineering, LLC
2C094D (base 16) Raptor Engineering, LLC
2556 Anderson Dr.
Belvidere IL 61008
US

AC-37-43 (hex) HTC Corporation
AC3743
(base 16) HTC Corporation
No. 23, Xinghua Rd., Taoyuan City
Taoyuan County Taiwan 330
TW

F8-5A-00 (hex) Sanford LP
F85A00 (base 16) Sanford LP
6655 Peachtree Dunwoody Road
Atlanta GA 30228
US

B4-04-18 (hex) Smartchip Integrated Inc.
B40418 (base 16) Smartchip Integrated Inc.
9B,Science Plaza,1355 JinJiHu Avenue,Suzhou Industrial Park
Suzhou Jiangsu 215021
CN

90-CF-7D (hex) Qingdao Hisense Communications Co.,Ltd.
90CF7D (base 16) Qingdao Hisense Communications Co.,Ltd.
Qianwangang Road 218
Qingdao Shandong 266510
CN

38-76-CA (hex) Shenzhen Smart Intelligent Technology Co.Ltd
3876CA (base 16) Shenzhen Smart Intelligent Technology Co.Ltd
Gaoxin South 4th Road Hi-Tech Industry Park, Nanshan District
Shenzhen Guangdong 518000
CN

F4-0A-4A (hex) INDUSNET Communication Technology Co.,LTD
F40A4A (base 16) INDUSNET Communication Technology Co.,LTD
3th floor A block,No11
Gaopeng st,Wuhou district
chengdu sichuan 610041
CN

00-23-F8 (hex) Zyxel Communications Corporation
0023F8 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

B8-BB-AF (hex) Samsung Electronics Co.,Ltd
B8BBAF (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu

Suwon Gyeonggi-Do 16677
KR

60-C5-AD (hex) Samsung Electronics Co.,Ltd
60C5AD (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

44-2C-05 (hex) AMPAK Technology, Inc.
442C05 (base 16) AMPAK Technology, Inc.
No.1,Jen Ai Road Hsinchu Industrial Park, Hukou
Hsinchu Taiwan ROC. 30352
TW

8C-89-7A (hex) AUGTEK
8C897A (base 16) AUGTEK
Tuanjie Road No.100, Building C, Room 521
Nanjing Jiangsu 211899
CN

50-AB-3E (hex) Qibixx AG
50AB3E (base 16) Qibixx AG
Bahnhofstrasse 2
Buchs SG 9471
CH

04-27-58
(hex) HUAWEI TECHNOLOGIES CO.,LTD
042758 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

9C-E3-74 (hex) HUAWEI TECHNOLOGIES CO.,LTD
9CE374 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

88-50-DD (hex) Infiniband Trade Association
8850DD (base 16) Infiniband Trade Association
3855 SW 153rd Drive
Beaverton OR 97003
US

00-25-50 (hex) Riverbed Technology, Inc.
002550 (base 16) Riverbed Technology, Inc.

680 Folsom St
San Francisco CA 94107
US

FC-55-DC (hex) Baltic Latvian Universal Electronics LLC
FC55DC (base 16) Baltic Latvian Universal Electronics LLC
5706 Corsa Avenue Suite 102
Westlake Village CA 91362
US

94-18-82 (hex) Hewlett Packard Enterprise
941882 (base 16) Hewlett Packard Enterprise
8000 Foothills
Blvd.
Roseville CA 95747
US

60-38-E0 (hex) Belkin International Inc.
6038E0 (base 16) Belkin International Inc.
12045 E. Waterfront Drive
Playa Vista CA 90094
US

8C-D2-E9 (hex) YOKOTE SEIKO CO., LTD.
8CD2E9 (base 16) YOKOTE SEIKO CO., LTD.
10-18 Minami-Gosyono Yasumoto
Yokote-City Akita 013-0811
JP

24-F0-94 (hex) Apple, Inc.
24F094 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

08-6D-41 (hex) Apple, Inc.
086D41 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

EC-AD-B8 (hex) Apple, Inc.
ECADB8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-25-52 (hex) VXi Corporation

002552 (base 16) VXi Corporation
271 Locust Street
Dover NH 03820
US

98-01-A7 (hex) Apple, Inc.
9801A7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

68-79-ED (hex) SHARP Corporation
6879ED (base
16) SHARP Corporation
22-22,Nagaike-cho
Osaka city Osaka prefecture 545-8522
JP

60-8D-17 (hex) Sentrus Government Systems Division, Inc
608D17 (base 16) Sentrus Government Systems Division, Inc
141 Chesterfield Industrial Blvd
Chesterfield MO 63005-1219
US

7C-73-8B (hex) Cocoon Alarm Ltd
7C738B (base 16) Cocoon Alarm Ltd
46 The Calls
Leeds West Yorkshire LS2 7EY
GB

B4-D5-BD (hex) Intel Corporate
B4D5BD (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

98-AA-3C (hex) Will i-tech Co., Ltd.
98AA3C (base 16) Will i-tech Co., Ltd.
34, Deokcheon-ro, Manan-gu, Anyang-si, Gyeonggi-do, Korea
Anyang 14088
KR

DC-37-52 (hex) GE
DC3752 (base 16) GE
650 Markland Street
Markham Ontario L6C 0M1
CA

F4-91-1E (hex) ZHUHAI EWPE INFORMATION TECHNOLOGY INC
F4911E (base 16) ZHUHAI EWPE INFORMATION TECHNOLOGY INC
Room 409,NO.10,Technology 1st Road,
Gangwan Av.,Tangjia Bay Town,Zhuhai,Guangdong,China
Zhuhai Guangdong 519070
CN

DC-D9-16 (hex) HUAWEI TECHNOLOGIES CO.,LTD
DCD916 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-23-82 (hex) Lih Rong electronic Enterprise Co., Ltd.
002382 (base 16) Lih Rong electronic Enterprise Co., Ltd.
No. 2, Lane 387, Hsin Shu Rd.
Hsin Chuang City, Taipei 242
TW

F8-45-AD (hex) Konka Group Co., Ltd.
F845AD (base 16) Konka Group Co., Ltd.
Shenzhen Konka R & D Building, 28th floor 15-24
Nanshan District Guangdong 00000
CN

00-0F-E2 (hex) Hangzhou H3C Technologies Co., Limited
000FE2 (base 16) Hangzhou H3C Technologies Co., Limited
Oriental Electronic Bld., NO.2,Chuangye Road
Hai-Dian District Beijing 100085
CN

6C-E9-83 (hex) Gastron Co., LTD.
6CE983 (base 16) Gastron Co., LTD.
#75-10, Palgok2-dong, Sangnok-gu,
Ansan-city
Kyunggi-do 426-190
KR

28-E3-1F (hex) Xiaomi Communications Co Ltd
28E31F (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

F8-0F-84 (hex) Natural Security SAS
F80F84 (base 16) Natural Security SAS
165 Avenue de Bretagne
Lille 59000

FR

44-A4-2D (hex) TCT mobile ltd
44A42D (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

80-F6-2E (hex) Hangzhou H3C Technologies Co., Limited
80F62E (base 16) Hangzhou H3C Technologies Co., Limited
310 Liuhe Road, Zhijiang Science Park
Hangzhou Zhejiang, 310053
CN

70-F9-6D (hex) Hangzhou H3C Technologies Co., Limited
70F96D (base 16) Hangzhou H3C Technologies Co., Limited
310 Liuhe Road, Zhijiang Science Park
Hangzhou Zhejiang, 310053
CN

00-C0-F0 (hex) Kingston Technology Company,
Inc.
00C0F0 (base 16) Kingston Technology Company, Inc.
17600 NEWHOPE STREET
FOUNTAIN VALLEY CA 92708
US

00-18-D7 (hex) JAVAD GNSS, Inc.
0018D7 (base 16) JAVAD GNSS, Inc.
1731 Technology Drive, Suite 680
San Jose CA 95110
US

00-1F-09 (hex) Jastec
001F09 (base 16) Jastec
Jastec B/D 2F, 92-7 Kumgok-dong,
Boondang-gu, 463-804
KR

AC-62-0D (hex) Jabil Circuit(Wuxi) Co.,Ltd
AC620D (base 16) Jabil Circuit(Wuxi) Co.,Ltd
Lot J9, J10 Export Processing Zone
Wuxi City Jiangsu 214028
CN

BC-6A-44 (hex) Commend International GmbH
BC6A44 (base 16) Commend International GmbH
Saalachstrasse 51

Salzburg Salzburg A-5020
AT

F0-EE-58 (hex) PACE Telematics GmbH
F0EE58 (base 16) PACE Telematics GmbH
Haid-und-Neu-Str. 18
Karlsruhe 76131
DE

4C-A0-03 (hex) VITEC
4CA003 (base 16) VITEC
99 rue Pierre Semard
Chatillon 92320
FR

08-3F-BC (hex) zte corporation
083FBC
(base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

00-00-C9 (hex) Emulex Corporation
0000C9 (base 16) Emulex Corporation
3333 Susan Street
Costa Mesa CA 92626
US

B8-AE-ED (hex) Elitegroup Computer Systems Co.,Ltd.
B8AEED (base 16) Elitegroup Computer Systems Co.,Ltd.
No. 239, Sec. 2, Ti Ding Blvd.,
Taipei 11493
TW

1C-73-70 (hex) Neotech
1C7370 (base 16) Neotech
104, 37 Yaeun-ro
Gumi-si Gyoungsangbuk-do 730-711
KR

00-02-2E (hex) TEAC Corp. R& D
00022E (base 16) TEAC Corp. R& D
857 Koyata, Iruma

JP

00-60-B0 (hex) Hewlett Packard
0060B0 (base 16) Hewlett Packard

MS 42LE
CUPERTINO CA 95014
US

08-00-0D (hex) International Computers, Ltd
08000D (base 16) International Computers, Ltd
WENLOCK WAY
na UNITED KINGDOM
GB

30-E3-7A (hex) Intel Corporate
30E37A
(base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-40-AA (hex) Valmet Automation
0040AA (base 16) Valmet Automation
Lentokentänkatu 11, P.O.Box 237
Tampere FIN-3310
FI

70-50-AF (hex) SKY UK LIMITED
7050AF (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

F4-EF-9E (hex) SGSG SCIENCE & TECHNOLOGY CO. LTD
F4EF9E (base 16) SGSG SCIENCE & TECHNOLOGY CO. LTD
3RD Fl, Bldg A3, No.1 software Park Rd
Zhuhai Guangdong 519085
CN

1C-74-0D (hex) Zyxel Communications Corporation
1C740D (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

60-3E-CA (hex) Cambridge Medical Robotics Ltd
603ECA (base 16) Cambridge Medical Robotics Ltd
Unit 2, Crome Lea Business Park
Madingley Road Cambridgeshire CB23 7PH
GB

00-0D-B0 (hex) Olym-tech Co.,Ltd.

000DB0 (base 16) Olym-tech Co.,Ltd.
Room
401/402,No.1,Songling Road,Hi-tech
Shenzhen Guangdong 518031
CN

30-F6-B9 (hex) Ecocentric Energy
30F6B9 (base 16) Ecocentric Energy
E3 The Innovation Centre, 9 De Laeter Way, Technology Park
Bentley Western Australia 6102
AU

9C-74-1A (hex) HUAWEI TECHNOLOGIES CO.,LTD
9C741A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E4-A8-B6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E4A8B6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

24-4C-07 (hex) HUAWEI TECHNOLOGIES CO.,LTD
244C07 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

74-6F-F7 (hex) Wistron Neweb Corporation
746FF7 (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

D0-B0-CD
(hex) Moen
D0B0CD (base 16) Moen
25300 Al Moen Dr
North Olmstead OH 44070-8022
US

00-1F-1F (hex) Edimax Technology Co. Ltd.
001F1F (base 16) Edimax Technology Co. Ltd.
No. 278, Xinhu 1st Road
Taipei City Neihu Dist 248
TW

00-02-0E (hex) ECI Telecom Ltd.
00020E (base 16) ECI Telecom Ltd.
30 Hasivim St
Petach-Tikva 49133 49133
IL

20-0A-5E (hex) Xiangshan Giant Eagle Technology Developing Co., Ltd.
200A5E (base 16) Xiangshan Giant Eagle Technology Developing Co., Ltd.
Juexi Road no.9 Juexi street
Ningbo Zhejiang 315708
CN

B0-E2-E5 (hex) Fiberhome Telecommunication Technologies Co.,LTD
B0E2E5 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan City Hubei Province 430074
CN

40-47-6A (hex) Astro Gaming
40476A (base 16) Astro Gaming
340 Bryant St., Suite 101
San Francisco CA 94107
US

00-1F-A7 (hex) Sony Interactive
Entertainment Inc.
001FA7 (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

90-46-A2 (hex) Tedipay UK Ltd
9046A2 (base 16) Tedipay UK Ltd
Level 39, One Canada Square
London E14 5AB
GB

64-79-A7 (hex) Phison Electronics Corp.
6479A7 (base 16) Phison Electronics Corp.
No.1, Qun Yi Rd., Jhunan,
Miaoli 350
TW

1C-5F-2B (hex) D-Link International
1C5F2B (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy, Singapore
Singapore Singapore 609917

SG

00-C1-64 (hex) Cisco Systems, Inc
00C164 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

CC-B1-1A (hex) Samsung Electronics Co.,Ltd
CCB11A (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

70-3C-03 (hex) RadiAnt Co.,Ltd
703C03 (base 16) RadiAnt Co.,Ltd
102-610, 36,
Bucheon-ro 198beon-gil, Wonmi-gu
Bucheon-si Gyeonggi-do 14557
KR

AC-44-F2 (hex) YAMAHA CORPORATION
AC44F2 (base 16) YAMAHA CORPORATION
10-1 Nakazawa-cho, Naka-ku
Hamamatsu Shizuoka 430-8650
JP

CC-D3-E2 (hex) Jiangsu Yinhe Electronics Co.,Ltd.
CCD3E2 (base 16) Jiangsu Yinhe Electronics Co.,Ltd.
No.188 Nanhuan Road, TangQiao Town
Zhangjiagang Jiangsu 215611
CN

E4-FA-ED (hex) Samsung Electronics Co.,Ltd
E4FAED (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

28-83-35 (hex) Samsung Electronics Co.,Ltd
288335 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

DC-CF-96 (hex) Samsung Electronics Co.,Ltd
DCCF96 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong

Gumi Gyeongbuk 730-350
KR

DC-2D-CB (hex) Beijing Unis HengYue Technology Co., Ltd.
DC2DCB (base 16) Beijing Unis HengYue Technology
Co., Ltd.
Room 402, No. 2 Block, No. 1 yard, Zhongguancun east road, Haidian District
Beijing 100190
CN

2C-96-62 (hex) Invenit BV
2C9662 (base 16) Invenit BV
Lange Broekstraat 3
Raamsdonk Noord-Brabant 4944 XH
NL

1C-EA-1B (hex) Nokia
1CEA1B (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

D4-61-2E (hex) HUAWEI TECHNOLOGIES CO.,LTD
D4612E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

54-51-1B (hex) HUAWEI TECHNOLOGIES CO.,LTD
54511B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

68-53-6C (hex) SPnS Co.,Ltd
68536C (base 16) SPnS Co.,Ltd
#315, Woolim Lions Valley 2nd, Gasan-dong, Geumcheon-gu
Seoul 08591
KR

04-7E-4A (hex) moobox CO., Ltd.
047E4A (base 16) moobox CO., Ltd.
No 801, Yanchang Zhong Road
Shanghai
Shanghai 200072
CN

00-80-E5 (hex) NetApp

0080E5 (base 16) NetApp
1395 Crossman Ave
Sunnyvale, CA 94089
US

9C-5C-8E (hex) ASUSTek COMPUTER INC.
9C5C8E (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

C8-87-22 (hex) Lumenpulse
C88722 (base 16) Lumenpulse
1751 Richardson, suite 1505
Montreal Quebec H3K 1G6
CA

84-68-3E (hex) Intel Corporate
84683E (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

74-3E-2B (hex) Ruckus Wireless
743E2B (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

CC-B3-AB (hex) shenzhen Biocare Bio-Medical Equipment Co.,Ltd.
CCB3AB (base 16) shenzhen Biocare Bio-Medical Equipment Co.,Ltd.
#A735, 7/F, Block A, Shenzhen Mingyou Industrial Products Exhibition & Procurement Center, Baoyuan Road, Xixiang Sub-district, Bao'an District, 518102 Shenzhen,
P.R. China
Shenzhen 518000
CN

E4-B3-18 (hex) Intel Corporate
E4B318 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

E0-CD-FD (hex) Beijing E3Control Technology Co, LTD
E0CDFD (base 16) Beijing E3Control Technology Co, LTD
1 Shangdi East Rd, Building A, Rm 205
Beijing Beijing 100085
CN

30-78-5C (hex) Partow Tamas Novin (Parman)
30785C (base 16) Partow Tamas Novin (Parman)
UNIT 32 NO.31 26TH WEST AVE ,ALLAMEH TABATABAIE ST.SAADAT ABAD
Tehran Tehran 1997968413
IR

E0-C7-67 (hex) Apple, Inc.
E0C767 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

80-ED-2C (hex) Apple, Inc.
80ED2C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-34-04 (hex) TCT mobile ltd
F03404 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

80-D1-60 (hex) Integrated
Device Technology (Malaysia) Sdn. Bhd.
80D160 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

60-AC-C8 (hex) KunTeng Inc.
60ACC8 (base 16) KunTeng Inc.
Room302, 3rd Floor, Building1 ,No.8 NongDa South street
HaiDian District BeiJing 100084
CN

1C-98-EC (hex) Hewlett Packard Enterprise
1C98EC (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

70-66-1B (hex) Sonova AG
70661B (base 16) Sonova AG
Laubisruetistrasse 28
Staefa 8712

CH

B0-7F-B9 (hex) NETGEAR
B07FB9 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

AC-61-EA (hex) Apple, Inc.
AC61EA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

38-B5-4D (hex) Apple, Inc.
38B54D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

1C-5C-F2 (hex) Apple, Inc.
1C5CF2
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

80-50-1B (hex) Nokia Corporation
80501B (base 16) Nokia Corporation
Joensuunkatu 7
Salo Varsinais-Suomi 24101
FI

A0-4E-04 (hex) Nokia Corporation
A04E04 (base 16) Nokia Corporation
Joensuunkatu 7
Salo Varsinais-Suomi 24101
FI

14-C1-26 (hex) Nokia Corporation
14C126 (base 16) Nokia Corporation
Joensuunkatu 7
Salo Varsinais-Suomi 24101
FI

60-01-94 (hex) Espressif Inc.
600194 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area

Shanghai Shanghai 201203
CN

D8-F7-10 (hex) Libre Wireless Technologies Inc.
D8F710 (base 16) Libre Wireless Technologies Inc.
5405 Alton Parkway
Irvine, CA CA 92604
US

3C-59-1E (hex) TCL King Electrical Appliances (Huizhou) Co., Ltd
3C591E (base 16) TCL King Electrical Appliances (Huizhou) Co., Ltd
7/FTCL Multimedia Building, TCL
International E City, No.1001 Zhongshanyuan Road, Nanshan
Shenzhen Guangdong 518052
CN

00-26-82 (hex) Gemtek Technology Co., Ltd.
002682 (base 16) Gemtek Technology Co., Ltd.
No.1 Jen Ai Road, Hsinchu Industrial Park,
Hukou, Hsinchu 303
TW

8C-A2-FD (hex) Starry, Inc.
8CA2FD (base 16) Starry, Inc.
PO Box 52226
Boston MA 02205
US

84-BA-3B (hex) CANON INC.
84BA3B (base 16) CANON INC.
30-2 Shimomaruko 3-chome,
Ohta-ku Tokyo 146-8501
JP

A8-7E-33 (hex) Nokia Danmark A/S
A87E33 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-24-03 (hex) Nokia Danmark A/S
002403 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-1B-33 (hex) Nokia Danmark A/S
001B33 (base 16) Nokia Danmark A/S

Frederikskaj
Copenhagen V DK-1790
DK

00-19-4F (hex) Nokia Danmark A/S
00194F (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen
V DK-1790
DK

00-BD-3A (hex) Nokia Corporation
00BD3A (base 16) Nokia Corporation
Joensuunkatu 7
Salo Varsinais-Suomi 24101
FI

00-24-04 (hex) Nokia Danmark A/S
002404 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-19-B7 (hex) Nokia Danmark A/S
0019B7 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-17-B0 (hex) Nokia Danmark A/S
0017B0 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-15-DE (hex) Nokia Danmark A/S
0015DE (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-02-EE (hex) Nokia Danmark A/S
0002EE (base 16) Nokia Danmark A/S
Frederikskaj, Copenhagen V
copenhagen 12345
DK

00-09-E1 (hex) Gemtek Technology Co., Ltd.

0009E1 (base 16) Gemtek Technology Co., Ltd.
No.1 Jen Ai Road
Hukou Hsinchu 303
TW

14-0C-76 (hex) FREEBOX
SAS
140C76 (base 16) FREEBOX SAS
16 rue de la Ville l'Eveque
PARIS 75008
FR

00-16-BC (hex) Nokia Danmark A/S
0016BC (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-17-4B (hex) Nokia Danmark A/S
00174B (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-26-69 (hex) Nokia Danmark A/S
002669 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-21-09 (hex) Nokia Danmark A/S
002109 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-21-08 (hex) Nokia Danmark A/S
002108 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-12-62 (hex) Nokia Danmark A/S
001262 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-14-A7 (hex) Nokia Danmark A/S
0014A7 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-15-A0
(hex) Nokia Danmark A/S
0015A0 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

02-9D-8E (hex) CARDIAC RECORDERS, INC.
029D8E (base 16) CARDIAC RECORDERS, INC.
34 SCARBORO RD
UK UNITED KINGDOM
GB

00-40-2A (hex) Canoga Perkins Corporation
00402A (base 16) Canoga Perkins Corporation
21012 LASSEN STREET
CHATSWORTH CA 91311-4241
US

A4-C7-DE (hex) Cambridge Industries(Group) Co.,Ltd.
A4C7DE (base 16) Cambridge Industries(Group) Co.,Ltd.
22 Floor,Qilai Tower;889 Yishan Road
Shanghai 200233
CN

00-19-C7 (hex) Cambridge Industries(Group) Co.,Ltd.
0019C7 (base 16) Cambridge Industries(Group) Co.,Ltd.
Room 309,333 Hong Qiao Road
Shanghai 200030
CN

70-D9-31 (hex) Cambridge Industries(Group) Co.,Ltd.
70D931 (base 16) Cambridge Industries(Group) Co.,Ltd.
22Floor,Qilai Tower;889Yishan Road
shanghai 200233
CN

02-70-B3 (hex) DATA RECALL
LTD.
0270B3 (base 16) DATA RECALL LTD.
SONDES PLACE
12345 UNITED KINGDOM

GB

00-01-36 (hex) CyberTAN Technology Inc.
000136 (base 16) CyberTAN Technology Inc.
99, Park Avenue III
Hsinchu 12345
TW

00-30-DA (hex) Comtrend Corporation
0030DA (base 16) Comtrend Corporation
3F-1, 10 Lane 609, Chongxin Road, Section 5,
New Taipei City, Taiwan 24159
TW

64-68-0C (hex) Comtrend Corporation
64680C (base 16) Comtrend Corporation
3F-1, 10 Lane 609, Chongxin Road, Section 5,
New Taipei City, Taiwan 24159
TW

38-72-C0 (hex) Comtrend Corporation
3872C0 (base 16) Comtrend Corporation
3F-1, 10 Lane 609, Chongxin Road, Section 5,
New Taipei City, Taiwan 24159
TW

A8-06-00 (hex) Samsung Electronics Co.,Ltd
A80600 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C4-36-55 (hex) Shenzhen Fenglian Technology Co., Ltd.
C43655 (base
16) Shenzhen Fenglian Technology Co., Ltd.
Room 302, 3F, Block 2, Oriental Cyberport, No. 2, Xinxi Road
Shenzhen Guangdong 518057
CN

E0-B9-E5 (hex) Technicolor Delivery Technologies Belgium NV
E0B9E5 (base 16) Technicolor Delivery Technologies Belgium NV
Prins Boudewijnlaan 47
Edegem - Belgium B-2650
BE

00-60-BB (hex) Cabletron Systems, Inc.
0060BB (base 16) Cabletron Systems, Inc.
35 INDUSTRIAL WAY

ROCHESTER NH 03866-5005
US

D8-B8-F6 (hex) Nantworks
D8B8F6 (base 16) Nantworks
12230 El Camino Real, Suite 400
San Diego CA 92130
US

24-F5-AA (hex) Samsung Electronics Co.,Ltd
24F5AA (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

98-83-89 (hex) Samsung Electronics Co.,Ltd
988389 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

84-A4-66 (hex) Samsung Electronics
Co.,Ltd
84A466 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

C4-57-6E (hex) Samsung Electronics Co.,Ltd
C4576E (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

50-85-69 (hex) Samsung Electronics Co.,Ltd
508569 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

78-59-5E (hex) Samsung Electronics Co.,Ltd
78595E (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

0C-14-20 (hex) Samsung Electronics Co.,Ltd
0C1420 (base 16) Samsung Electronics Co.,Ltd

#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

94-B1-0A (hex) Samsung Electronics Co.,Ltd
94B10A (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

3C-BB-FD (hex) Samsung Electronics Co.,Ltd
3CBBFD (base 16) Samsung
Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A4-84-31 (hex) Samsung Electronics Co.,Ltd
A48431 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F0-5A-09 (hex) Samsung Electronics Co.,Ltd
F05A09 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

50-32-75 (hex) Samsung Electronics Co.,Ltd
503275 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

08-FC-88 (hex) Samsung Electronics Co.,Ltd
08FC88 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F8-D0-BD (hex) Samsung Electronics Co.,Ltd
F8D0BD (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A0-B4-A5 (hex) Samsung Electronics Co.,Ltd

A0B4A5 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E4-F8-EF
(hex) Samsung Electronics Co.,Ltd
E4F8EF (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D0-4D-2C (hex) Roku, Inc.
D04D2C (base 16) Roku, Inc.
12980 Saratoga Ave
Saratoga CA 95070
US

B0-A7-37 (hex) Roku, Inc.
B0A737 (base 16) Roku, Inc.
12980 Saratoga Ave
Saratoga CA 95070
US

00-80-77 (hex) Brother industries, LTD.
008077 (base 16) Brother industries, LTD.
RESEARCH LABORATORY
piscatawa 12345
JP

00-1B-E9 (hex) Broadcom
001BE9 (base 16) Broadcom
16215 Alton Parkway
Irvine CA 92618
US

DC-44-6D (hex) Allwinner Technology Co., Ltd
DC446D (base 16) Allwinner Technology Co., Ltd
No.9 Technology Road 2, High-Tech Zone
Zhuhai Guangdong 519085
CN

74-5A-AA (hex) HUAWEI TECHNOLOGIES CO.,LTD
745AAA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan
523808
CN

04-FE-8D (hex) HUAWEI TECHNOLOGIES CO.,LTD
04FE8D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

DC-64-B8 (hex) Shenzhen JingHanDa Electronics Co.Ltd
DC64B8 (base 16) Shenzhen JingHanDa Electronics Co.Ltd
5th Floor,No 4 ,Road 1,ShangXue Technology industrial Park,LongGang district,ShenZhen,GuangDong,China
ShenZhen GuangDong 518129
CN

44-EE-02 (hex) MTI Ltd.
44EE02 (base 16) MTI Ltd.
Nishi-shinjuku Tokyo Opera City Tower 3-20-2 35F
Shinjuku-ku Tokyo 163-1435
JP

00-13-33 (hex) BaudTec Corporation
001333 (base 16) BaudTec Corporation
12F, NO.181, Sec. 1. Tatung Rd.,
Hsichih Taipei Hsien 221
TW

58-67-1A (hex) Barnes&Noble
58671A (base 16) Barnes&Noble
400 HAMILTON AVENUE
PALO ALTO CA 94301
US

00-26-75 (hex) Aztech Electronics Pte Ltd
002675 (base 16) Aztech Electronics Pte
Ltd
31 Ubi Road 1
Singapore 408694
SG

00-24-FE (hex) AVM GmbH
0024FE (base 16) AVM GmbH
Alt-Moabit 95
Berlin 10559
DE

C0-25-06 (hex) AVM GmbH
C02506 (base 16) AVM GmbH
Alt-Moabit 95
Berlin 10559

DE

58-56-E8 (hex) ARRIS Group, Inc.
5856E8 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

F8-0B-BE (hex) ARRIS Group, Inc.
F80BBE (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

DC-45-17 (hex) ARRIS Group, Inc.
DC4517 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

C8-AA-21 (hex) ARRIS Group, Inc.
C8AA21 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

F8-7B-7A (hex) ARRIS Group, Inc.
F87B7A (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

A8-D3-F7 (hex) Arcadyan Technology Corporation
A8D3F7 (base 16) Arcadyan
Technology Corporation
No.8, Sec.2, Guangfu Rd.,
Hsinchu City Hsinchu 30071
TW

48-9D-24 (hex) BlackBerry RTS
489D24 (base 16) BlackBerry RTS
451 Phillip Street
Waterloo ON N2L 3X2
CA

00-0D-92 (hex) ARIMA Communications Corp.
000D92 (base 16) ARIMA Communications Corp.
16, lane 658, Ying-Tao Road

Yingko Taipei County 23943
TW

00-21-63 (hex) ASKEY COMPUTER CORP
002163 (base 16) ASKEY COMPUTER CORP
10F,NO.119.CHIENKANG RD,CHUNG-HO,
taipei TAIPEI 235
TW

08-BD-43 (hex) NETGEAR
08BD43 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

4C-60-DE (hex) NETGEAR
4C60DE (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

C4-3D-C7 (hex) NETGEAR
C43DC7 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

40-5D-82 (hex) NETGEAR
405D82 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

DC-EF-09
(hex) NETGEAR
DCEF09 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

00-15-CE (hex) ARRIS Group, Inc.
0015CE (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-15-A2 (hex) ARRIS Group, Inc.
0015A2 (base 16) ARRIS Group, Inc.

6450 Sequence Drive
San Diego CA 92121
US

00-15-A3 (hex) ARRIS Group, Inc.
0015A3 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-15-A4 (hex) ARRIS Group, Inc.
0015A4 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-00-CA (hex) ARRIS Group, Inc.
0000CA (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-19-63 (hex) Sony Corporation
001963 (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

00-1F-E4 (hex) Sony Corporation
001FE4 (base 16) Sony Corporation
1-7-1
Konan Minato-ku
Tokyo 108-0075
JP

00-23-45 (hex) Sony Corporation
002345 (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

6C-0E-0D (hex) Sony Corporation
6C0E0D (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

00-11-1A (hex) ARRIS Group, Inc.

00111A (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-0F-9F (hex) ARRIS Group, Inc.
000F9F (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-04-BD (hex) ARRIS Group, Inc.
0004BD (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-E0-6F (hex) ARRIS Group, Inc.
00E06F (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

80-96-B1 (hex) ARRIS Group, Inc.
8096B1 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

6C-23-B9
(hex) Sony Corporation
6C23B9 (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

30-17-C8 (hex) Sony Corporation
3017C8 (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

20-54-76 (hex) Sony Corporation
205476 (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

00-26-42 (hex) ARRIS Group, Inc.
002642 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-24-A1 (hex) ARRIS Group, Inc.
0024A1 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-22-10 (hex) ARRIS Group, Inc.
002210 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-22-B4 (hex) ARRIS Group, Inc.
0022B4 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1C-FB (hex) ARRIS
Group, Inc.
001CFB (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-14-9A (hex) ARRIS Group, Inc.
00149A (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-14-E8 (hex) ARRIS Group, Inc.
0014E8 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-19-C0 (hex) ARRIS Group, Inc.
0019C0 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

70-7E-43 (hex) ARRIS Group, Inc.
707E43 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-15-2F (hex) ARRIS Group, Inc.
00152F (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-17-EE (hex) ARRIS Group, Inc.
0017EE (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1A-80 (hex) Sony Corporation
001A80 (base 16) Sony Corporation
Gotenyama
Tec, 5-1-2 Kitashinagawa
Tokyo 141-0001
JP

00-12-EE (hex) Sony Corporation
0012EE (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

00-16-20 (hex) Sony Corporation
001620 (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

00-23-95 (hex) ARRIS Group, Inc.
002395 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-23-AF (hex) ARRIS Group, Inc.
0023AF (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121

US

00-1F-C4 (hex) ARRIS Group, Inc.
001FC4 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-00-F4 (hex) Allied Telesis, Inc.
0000F4 (base 16) Allied Telesis, Inc.
CORPORATION
SUNNYVALE CA 94086
US

00-15-77 (hex) Allied Telesis, Inc.
001577 (base 16) Allied Telesis, Inc.
3200 North First Street
San Jose 95134
US

70-3C-39 (hex) SEAWING
Kft
703C39 (base 16) SEAWING Kft
Palánkai utca 5.
Székesfehérvár Fejér 8000
HU

90-97-D5 (hex) Espressif Inc.
9097D5 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

AC-D0-74 (hex) Espressif Inc.
ACD074 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

38-E3-C5 (hex) Taicang T&W Electronics
38E3C5 (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

88-41-FC (hex) AirTies Wireless Networks
8841FC (base 16) AirTies Wireless Networks
Gulbahar Mahallesi, Avni Diligil Sokak

ISTANBUL ISTANBUL 34394
TR

B8-61-6F (hex) Accton Technology Corp
B8616F (base 16) Accton Technology Corp
No.1 Creation Rd III, Science-based Industrial Park
Hsinchu 30077
TW

00-12-CF (hex) Accton Technology Corp
0012CF (base 16) Accton
Technology Corp
No. 1 Creation Rd. III, Science-based Industrial Park
Hsinchu 300
TW

00-30-F1 (hex) Accton Technology Corp
0030F1 (base 16) Accton Technology Corp
No. 1, Creation Rd. IV
Hsinchu 12345
TW

98-74-3D (hex) Shenzhen Jun Kai Hengye Technology Co. Ltd
98743D (base 16) Shenzhen Jun Kai Hengye Technology Co. Ltd
5th floor,Yahua Building,#1Hongwan Gonghegongye RD,Xixiang Gushu Community,Baoan District,Shenzhen
Shenzhen Guangdong 518000
CN

A0-F4-59 (hex) FN-LINK TECHNOLOGY LIMITED
A0F459 (base 16) FN-LINK TECHNOLOGY LIMITED
5th Floor, A Building, Haoye Logistics Park, Shugang Channel, Bao'an District,
SHENZHEN GUANGDONG 518000
CN

58-63-56 (hex) FN-LINK TECHNOLOGY LIMITED
586356 (base 16) FN-LINK TECHNOLOGY LIMITED
5th Floor, A Building, Haoye Logistics Park, Shugang Channel, Bao'an District,
SHENZHEN GUANGDONG 518000
CN

40-E2-30 (hex) AzureWave Technology Inc.
40E230
(base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.,
New Taipei City Taiwan 231
TW

80-D2-1D (hex) AzureWave Technology Inc.

80D21D (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

70-5A-0F (hex) Hewlett Packard
705A0F (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

44-95-FA (hex) Qingdao Santong Digital Technology Co.Ltd
4495FA (base 16) Qingdao Santong Digital Technology Co.Ltd
Room701, No.1£¬Fu Ying Building,No.443East Changjiang Road,Qingdao Economic and Technological Development District
Qingdao Shandong 266555
CN

74-C2-46 (hex) Amazon Technologies Inc.
74C246 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

00-0F-A3 (hex) Alpha Networks Inc.
000FA3 (base 16) Alpha Networks Inc.
No.8 Li-shing 7th Rd.,Science-based Industrial Park
Hsinchu 300
TW

00-1D-6A (hex) Alpha
Networks Inc.
001D6A (base 16) Alpha Networks Inc.
No.8 Li-shing Seventh Road,Science-based
Hsinchu 300
US

00-25-D3 (hex) AzureWave Technology Inc.
0025D3 (base 16) AzureWave Technology Inc.
8F ., No.94, Baozhong Rd.
Xindian City 231
TW

1C-4B-D6 (hex) AzureWave Technology Inc.
1C4BD6 (base 16) AzureWave Technology Inc.
8F., No. 94, Baoshong Rd.
Xindian City, Taipei County 231
TW

08-A9-5A (hex) AzureWave Technology Inc.
08A95A (base 16) AzureWave Technology Inc.
8F., No. 94, Baoshong Rd.
Xindian City, Taipei County 231
TW

94-DB-C9 (hex) AzureWave Technology Inc.
94DBC9 (base 16) AzureWave Technology Inc.
8F No94 Baozhong Rd
XindianDistrict, New Taipei City 231
TW

24-0A-64 (hex) AzureWave Technology Inc.
240A64 (base 16) AzureWave Technology Inc.
9F.,No.92,Baozhong Rd
Xindian NewTaipeiCity 231
TW

D4-D1-84 (hex) ADB Broadband Italia
D4D184
(base 16) ADB Broadband Italia
via Sarca 222
Milano 20126
IT

A0-4F-D4 (hex) ADB Broadband Italia
A04FD4 (base 16) ADB Broadband Italia
VIALE SARCA 336
MILANO 20126
IT

8C-B8-64 (hex) AcSiP Technology Corp.
8CB864 (base 16) AcSiP Technology Corp.
3F., No.22, Dalin Rd.,
Taoyuan City 330
TW

5C-E2-F4 (hex) AcSiP Technology Corp.
5CE2F4 (base 16) AcSiP Technology Corp.
3F., No.22, Dalin Rd.
Taoyuan Taoyuan County 33067
TW

00-30-D3 (hex) Agilent Technologies, Inc.
0030D3 (base 16) Agilent Technologies, Inc.
1501 Page Mill Road
Palo Alto CA 94304-1126

US

00-A0-2F (hex) ADB Broadband Italia
00A02F (base 16) ADB Broadband Italia
VIALE SARCA 222
20126 MILAN 12345
IT

70-9E-29 (hex) Sony Interactive Entertainment Inc.
709E29 (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

A4-DB-30 (hex) Liteon Technology
Corporation
A4DB30 (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road,ChungHo,Taipei Hsien,Taiwan,
TaiPei TaiWan 23585
TW

40-F0-2F (hex) Liteon Technology Corporation
40F02F (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road,ChungHo,Taipei Hsien,Taiwan,
TaiPei TaiWan 23585
TW

D0-0E-D9 (hex) Taicang T&W Electronics
D00ED9 (base 16) Taicang T&W Electronics
89# Jiang Nan RD, Lu Du
Taicang Jiangsu 215412
CN

54-14-73 (hex) Wingtech Group (HongKongLimited
541473 (base 16) Wingtech Group (HongKongLimited
FLAT/RM 1903 19/F PODIUM PLAZA 5HANOI ROAD TSIM SHA TSUI
HongKong 999077
HK

7C-CC-B8 (hex) Intel Corporate
7CCCB8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

F4-06-69 (hex) Intel Corporate
F40669 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3

Kulim Kedah 09000
MY

00-1D-E1 (hex) Intel Corporate
001DE1
(base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-1F-3B (hex) Intel Corporate
001F3B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-21-5D (hex) Intel Corporate
00215D (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-21-6A (hex) Intel Corporate
00216A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

80-86-F2 (hex) Intel Corporate
8086F2 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

E0-94-67 (hex) Intel Corporate
E09467 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

08-D4-0C (hex) Intel Corporate
08D40C (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

6C-88-14 (hex) Intel Corporate
6C8814 (base 16) Intel Corporate

Lot 8, Jalan Hi-Tech
2/3
Kulim Kedah 09000
MY

90-E2-BA (hex) Intel Corporate
90E2BA (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-26-C7 (hex) Intel Corporate
0026C7 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-26-C6 (hex) Intel Corporate
0026C6 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

30-3A-64 (hex) Intel Corporate
303A64 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

AC-FD-CE (hex) Intel Corporate
ACFDCE (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

0C-CC-26 (hex) Airenetworks
0CCC26 (base 16) Airenetworks
Ramon y Cajal 11
Elche Alicante 03203
ES

E0-9D-31 (hex) Intel Corporate
E09D31 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

88-53-2E (hex) Intel Corporate

88532E
(base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

88-4A-EA (hex) Texas Instruments
884AEA (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

74-E1-4A (hex) IEEE Registration Authority
74E14A (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

0C-EF-AF (hex) IEEE Registration Authority
0CEFAF (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

F8-02-78 (hex) IEEE Registration Authority
F80278 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

A0-BB-3E (hex) IEEE Registration Authority
A0BB3E (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

C4-66-99 (hex) vivo Mobile Communication Co., Ltd.
C46699 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

C8-F2-30
(hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
C8F230 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD
DONGGUAN GUANGDONG 523860
CN

8C-0E-E3 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
8C0EE3 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,WUSHA,CHANG'AN
DONGGUAN GUANGDONG 523860
CN

B0-79-94 (hex) Motorola Mobility LLC, a Lenovo Company
B07994 (base 16) Motorola Mobility LLC, a Lenovo Company
600 North US Hwy 45
Libertyville IL 60048
US

A4-70-D6 (hex) Motorola Mobility LLC, a Lenovo Company
A470D6 (base 16) Motorola Mobility LLC, a Lenovo Company
222 Merchandise Mart Plaza, Suite 1800
Chicago IL 60654
US

74-C9-9A (hex) Ericsson AB
74C99A (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

5C-C2-13 (hex) Fr. Sauter AG
5CC213 (base 16) Fr. Sauter AG
Im Surinam
55
Basel BS CH4016
CH

28-10-1B (hex) MagnaCom
28101B (base 16) MagnaCom
9 Bareket Street
Petah Tikva 4951777
IL

00-16-76 (hex) Intel Corporate
001676 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-16-EA (hex) Intel Corporate
0016EA (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000

MY

00-1B-77 (hex) Intel Corporate
001B77 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-1C-C0 (hex) Intel Corporate
001CC0 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

10-4A-7D (hex) Intel Corporate
104A7D (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C0-D0-44 (hex) Sagemcom Broadband SAS
C0D044 (base 16) Sagemcom Broadband SAS
250, Route de l'Empereur
RUEIL-MALMAISON 92500
FR

A0-1B-29 (hex) Sagemcom
Broadband SAS
A01B29 (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
Rueil Malmaison Cedex Hauts de Seine 92848
FR

C8-CD-72 (hex) Sagemcom Broadband SAS
C8CD72 (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
Rueil Malmaison Cedex Hauts de Seine 92848
FR

00-22-A4 (hex) 2Wire Inc
0022A4 (base 16) 2Wire Inc
1764 Automation Parkway
San Jose CA 95131
US

98-2C-BE (hex) 2Wire Inc
982CBE (base 16) 2Wire Inc
1764 Automation Pkwy

San Jose CA 95131
US

64-0F-28 (hex) 2Wire Inc
640F28 (base 16) 2Wire Inc
1764 Automation Parkway
San Jose CA 95131
US

00-15-56 (hex) Sagemcom Broadband SAS
001556 (base 16) Sagemcom Broadband SAS
Le Ponnant de Paris
CEDEX Paris 75512
FR

00-14-95 (hex) 2Wire Inc
001495 (base 16) 2Wire Inc
1704 Automation Parkway
San Jose CA 95131
US

00-50-BA (hex) D-Link Corporation
0050BA (base 16) D-Link
Corporation
2F, NO. 233L-2, PAO-CHIAO RD.
TAIPEI 0000
TW

00-17-9A (hex) D-Link Corporation
00179A (base 16) D-Link Corporation
No. 289, Sinhu 3rd Rd., Neihu District,
Taipei 114
TW

00-1C-F0 (hex) D-Link Corporation
001CF0 (base 16) D-Link Corporation
NO.289, Sinhu 3rd Rd.,
Neihu District, Taipei City 114
TW

00-1E-58 (hex) D-Link Corporation
001E58 (base 16) D-Link Corporation
NO.289, Sinhu 3rd Rd.,
Neihu District, Taipei City 114
TW

00-22-B0 (hex) D-Link Corporation
0022B0 (base 16) D-Link Corporation

No.289, Sinhu 3rd RD.,
Neihu District, Taipei City 114
TW

00-24-01 (hex) D-Link Corporation
002401 (base 16) D-Link Corporation
No.289, Sinhu 3rd RD.,
Neihu District, Taipei City 114
TW

1C-AF-F7 (hex) D-Link International
1CAFF7 (base 16) D-Link International
1 INTERNATIONAL BUSINESS PARK,
SINGAPORE 609917
SG

14-D6-4D (hex) D-Link
International
14D64D (base 16) D-Link International
1 INTERNATIONAL BUSINESS PARK
SINGAPORE 609917
SG

B4-99-BA (hex) Hewlett Packard
B499BA (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

0C-47-C9 (hex) Amazon Technologies Inc.
0C47C9 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

94-44-52 (hex) Belkin International Inc.
944452 (base 16) Belkin International Inc.
12045 E. Waterfront Drive
Playa Vista CA 90094
US

00-30-C5 (hex) CADENCE DESIGN SYSTEMS, INC.
0030C5 (base 16) CADENCE DESIGN SYSTEMS, INC.
555 RIVER OAKS PARKWAY
SAN JOSE CA 95134
US

34-8A-AE (hex) Sagemcom Broadband SAS

348AAE (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
RUEIL MALMAISON CEDEX Hauts de Seine 92848
FR

7C-03-D8 (hex) Sagemcom Broadband SAS
7C03D8 (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
RUEIL
MALMAISON CEDEX Hauts de Seine 92848
FR

C0-AC-54 (hex) Sagemcom Broadband SAS
C0AC54 (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
Rueil Malmaison HAUTS DE SEINE 92848
FR

2C-39-96 (hex) Sagemcom Broadband SAS
2C3996 (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
Rueil Malmaison HAUTS DE SEINE 92848
FR

F0-82-61 (hex) Sagemcom Broadband SAS
F08261 (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
Rueil Malmaison HAUTS DE SEINE 92848
FR

F8-2C-18 (hex) 2Wire Inc
F82C18 (base 16) 2Wire Inc
1764 Automation Parkway
San Jose CA 95131
US

18-01-7D (hex) Harbin Arteor technology co., LTD
18017D (base 16) Harbin Arteor technology co., LTD
Yushan Road 49-2
Harbin Heilongjiang 150090
CN

E0-D7-BA (hex) Texas Instruments
E0D7BA (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

D0-8C-B5 (hex) Texas Instruments
D08CB5
(base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

00-18-2F (hex) Texas Instruments
00182F (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

00-17-EA (hex) Texas Instruments
0017EA (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

00-21-BA (hex) Texas Instruments
0021BA (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

00-14-BF (hex) Cisco-Linksys, LLC
0014BF (base 16) Cisco-Linksys, LLC
121 Theory Dr.
Irvine CA 92612
US

BC-0D-A5 (hex) Texas Instruments
BC0DA5 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

CC-8C-E3 (hex) Texas Instruments
CC8CE3 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

1C-E2-CC (hex) Texas Instruments
1CE2CC (base 16) Texas Instruments
12500
TI Boulevard, MS 8723
Dallas TX 75243

US

98-59-45 (hex) Texas Instruments
985945 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

D4-94-A1 (hex) Texas Instruments
D494A1 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

B0-B4-48 (hex) Texas Instruments
B0B448 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

94-EB-2C (hex) Google, Inc.
94EB2C (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View 94043
US

90-94-E4 (hex) D-Link International
9094E4 (base 16) D-Link International
1 International Business Park, #03-12, The Synergy
SINGAPORE 609917
SG

CC-B2-55 (hex) D-Link International
CCB255 (base 16) D-Link International
1 International Business Park, #03-12, The Synergy
SINGAPORE 609917
SG

28-10-7B (hex) D-Link International
28107B (base
16) D-Link International
1 International Business Park, #03-12, The Synergy
SINGAPORE 609917
SG

FC-75-16 (hex) D-Link International
FC7516 (base 16) D-Link International
1 International Business Park, #03-12, The Synergy

SINGAPORE 609917
SG

84-C9-B2 (hex) D-Link International
84C9B2 (base 16) D-Link International
1 International Business Park, #03-12, The Synergy
SINGAPORE 609917
SG

C8-D3-A3 (hex) D-Link International
C8D3A3 (base 16) D-Link International
1 Internal Business Park, #03-12. The Synergy Singapore
Singapore 609917
US

3C-BB-73 (hex) Shenzhen Xinguodu Technology Co., Ltd.
3CBB73 (base 16) Shenzhen Xinguodu Technology Co., Ltd.
F17A, JinSong Building, Tairan Industrial & Trade Park, Chegongmiao, Shennan RoadFutian District
Shenzhen Guangdong 518040
CN

28-7C-DB (hex) Hefei Toycloud Technology Co.,ltd
287CDB (base 16) Hefei Toycloud Technology Co.,ltd
FLOOR
13,XUNFEI BUILDING,NO.666 WANGJIANG ROAD,HIGH & NEW TECHNOLOGY DEVELOPMENT ZONE.HEFEI.
Hefei Anhui 230088
CN

80-6A-B0 (hex) Shenzhen TINNO Mobile Technology Corp.
806AB0 (base 16) Shenzhen TINNO Mobile Technology Corp.
Building, No.33, Xiandong Rd, Xili
Nanshan District, Shenzhen PRC 518053
CN

04-78-63 (hex) Shanghai MXCHIP Information Technology Co., Ltd.
047863 (base 16) Shanghai MXCHIP Information Technology Co., Ltd.
9th Floor, No. 5 Building, 2145 Jinshajiang Rd., Putuo District
Shanghai 200333
CN

3C-5A-B4 (hex) Google, Inc.
3C5AB4 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View 94043
US

F4-F5-E8 (hex) Google, Inc.

F4F5E8 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View 94043
US

48-AD-08 (hex) HUAWEI TECHNOLOGIES CO.,LTD
48AD08 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan
523808
CN

4C-FB-45 (hex) HUAWEI TECHNOLOGIES CO.,LTD
4CFB45 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan Guangdong 523808
CN

00-9A-CD (hex) HUAWEI TECHNOLOGIES CO.,LTD
009ACD (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan Guangdong 523808
CN

70-B3-D5 (hex) IEEE Registration Authority
70B3D5 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

28-ED-6A (hex) Apple, Inc.
28ED6A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

40-9F-87 (hex) Jide Technology (Hong Kong) Limited
409F87 (base 16) Jide Technology (Hong Kong) Limited
jiahua Mansion 3F, 133 North 4th Ring Road East, Chaoyang District
Beijing 100101
CN

0C-F9-C0 (hex) SKY UK LIMITED
0CF9C0 (base 16) SKY UK LIMITED
130 Kings Road
Brentwood
Essex 08854
GB

4C-FF-12 (hex) Fuze Entertainment Co., ltd
4CFF12 (base 16) Fuze Entertainment Co., ltd
3rd Floor Harbour Centre
George Town George Town P.O. Box 613GT
KY

0C-C7-31 (hex) Currant, Inc.
0CC731 (base 16) Currant, Inc.
927 Industrial Ave
Palo Alto CA 94303
US

AC-9A-22 (hex) NXP Semiconductors
AC9A22 (base 16) NXP Semiconductors
411 E. Plumeria Drive
San Jose CA 95134
US

84-61-A0 (hex) ARRIS Group, Inc.
8461A0 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

5C-8F-E0 (hex) ARRIS Group, Inc.
5C8FE0 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

BC-CA-B5 (hex) ARRIS Group, Inc.
BCCAB5 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

D0-39-B3 (hex) ARRIS Group, Inc.
D039B3 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-0F-CC
(hex) ARRIS Group, Inc.
000FCC (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121

US

38-F2-3E (hex) Microsoft Mobile Oy
38F23E (base 16) Microsoft Mobile Oy
Keilalahdentie 4
Espoo 02150
FI

AC-B3-13 (hex) ARRIS Group, Inc.
ACB313 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

0C-F8-93 (hex) ARRIS Group, Inc.
0CF893 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

3C-DF-A9 (hex) ARRIS Group, Inc.
3CDFA9 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-15-D1 (hex) ARRIS Group, Inc.
0015D1 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1D-D0 (hex) ARRIS Group, Inc.
001DD0 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1D-D3 (hex) ARRIS Group, Inc.
001DD3 (base 16) ARRIS Group,
Inc.
6450 Sequence Drive
San Diego CA 92121
US

2C-41-38 (hex) Hewlett Packard
2C4138 (base 16) Hewlett Packard
11445 Compaq Center Drive

Houston 77070
US

44-1E-A1 (hex) Hewlett Packard
441EA1 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

78-E7-D1 (hex) Hewlett Packard
78E7D1 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

00-12-F0 (hex) Intel Corporate
0012F0 (base 16) Intel Corporate
Lot 8, Jalan Hi-tech 2/3
Kulim Kedah 09000
MY

E4-F8-9C (hex) Intel Corporate
E4F89C (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

6C-A1-00 (hex) Intel Corporate
6CA100 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

A4-02-B9 (hex) Intel Corporate
A402B9 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

DC-53-60 (hex) Intel
Corporate
DC5360 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

34-64-A9 (hex) Hewlett Packard
3464A9 (base 16) Hewlett Packard

11445 Compaq Center Drive
Houston 77070
US

38-63-BB (hex) Hewlett Packard
3863BB (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

5C-B9-01 (hex) Hewlett Packard
5CB901 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

DC-4A-3E (hex) Hewlett Packard
DC4A3E (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

9C-B6-54 (hex) Hewlett Packard
9CB654 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

00-07-40 (hex) BUFFALO.INC
000740 (base 16) BUFFALO.INC
AKAMONDORI Bldg., 30-20,Ohsu 3-chome
Naka-ku,Nagoya Aichi Pref. 460-8315
JP

00-24-A5 (hex) BUFFALO.INC
0024A5 (base 16) BUFFALO.INC
AKAMONDORI
Bldg., 30-20,Ohsu 3-chome
Naka-ku,Nagoya Aichi Pref. 460-8315
JP

CC-E1-D5 (hex) BUFFALO.INC
CCE1D5 (base 16) BUFFALO.INC
AKAMONDORI Bldg.,30-20,Ohsu 3-chome
Naka-ku,Nagoya Aichi Pref 460-8315
JP

00-1C-C4 (hex) Hewlett Packard

001CC4 (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-1E-0B (hex) Hewlett Packard
001E0B (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-22-64 (hex) Hewlett Packard
002264 (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-25-B3 (hex) Hewlett Packard
0025B3 (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

6C-3B-E5 (hex) Hewlett Packard
6C3BE5 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

A0-B3-CC (hex) Hewlett Packard
A0B3CC (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston
77070
US

EC-B1-D7 (hex) Hewlett Packard
ECB1D7 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

00-0C-F1 (hex) Intel Corporation
000CF1 (base 16) Intel Corporation
MS: JF3-420
Hillsboro OR 97124
US

78-48-59 (hex) Hewlett Packard
784859 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

64-31-50 (hex) Hewlett Packard
643150 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

58-DC-6D (hex) Exceptional Innovation, Inc.
58DC6D (base 16) Exceptional Innovation, Inc.
480 Olde Worthington Rd, Suite 350
Westerville OH 43082
US

90-21-55 (hex) HTC Corporation
902155 (base 16) HTC Corporation
No.23 Xinghua Road
Taoyuan County 330
TW

D8-B3-77 (hex) HTC Corporation
D8B377 (base 16) HTC Corporation
No. 23, Xinghua Rd.,
Taoyuan City 330
TW

B0-F1-A3 (hex) Fengfan (BeiJing)
Technology Co., Ltd.
B0F1A3 (base 16) Fengfan (BeiJing) Technology Co., Ltd.
Room518,Dianzichengdasha Town,No12,Jiuxianqiao Road
Beijing Chaoyang District 100016
CN

A4-D1-8C (hex) Apple, Inc.
A4D18C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

24-1E-EB (hex) Apple, Inc.
241EEB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

CC-25-EF (hex) Apple, Inc.
CC25EF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

94-2C-B3 (hex) HUMAX Co., Ltd.
942CB3 (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

B0-5A-DA (hex) Hewlett Packard
B05ADA (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

00-10-83 (hex) Hewlett Packard
001083 (base 16) Hewlett Packard
MAIL STOP 42LE
CUPERTINO CA 95014
US

88-CF-98 (hex) HUAWEI TECHNOLOGIES
CO.,LTD
88CF98 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

14-04-67 (hex) SNK Technologies Co.,Ltd.
140467 (base 16) SNK Technologies Co.,Ltd.
#1001, Byuksan Sunyoung Technopia, A-dong, 13
Ojeongongeop-gil, Uiwang-si, Gyeonggi-do 16072
KR

7C-B1-5D (hex) HUAWEI TECHNOLOGIES CO.,LTD
7CB15D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan Guangdong 523808
CN

00-26-5E (hex) Hon Hai Precision Ind. Co.,Ltd.
00265E (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332

CN

00-24-2C (hex) Hon Hai Precision Ind. Co.,Ltd.
00242C (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

80-30-DC (hex) Texas Instruments
8030DC (base 16) Texas Instruments
12500
TI Blvd
Dallas TX 75243
US

A4-D5-78 (hex) Texas Instruments
A4D578 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

24-60-81 (hex) razberi technologies
246081 (base 16) razberi technologies
13755 Hutton Drive Suite 500
Farmers Branch TX 75234
US

00-27-19 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
002719 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 7, Second Part, Honghualing Industrial Zone
Shenzhen Guangdong 518057
CN

40-16-9F (hex) TP-LINK TECHNOLOGIES CO.,LTD.
40169F (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
1-6F, Building 2, Pingshandayuan Industrial, South Zone,
Shenzhen Guangdong 518000
CN

F4-EC-38 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
F4EC38 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
1-6F, Building 2, Pingshandayuan Industrial, South Zone,
Shenzhen Guangdong 518000
CN

80-89-17 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
808917 (base 16) TP-LINK

TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4)
Shennan Rd, Nanshan Shenzhen,Guangdong Province 518057
CN

A0-93-47 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
A09347 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,WUSHA,CHANG'AN,DONGGUAN,GUANGDONG,CHINA
DONGGUAN GUANGDONG 523860
CN

E8-BB-A8 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
E8BBA8 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,WUSHA,CHANG'AN,DONGGUAN,GUANGDONG,CHINA
DONGGUAN GUANGDONG 523860
CN

B0-AA-36 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
B0AA36 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD
DONGGUAN GUANGDONG 523860
CN

F8-0D-43 (hex) Hon Hai Precision Ind. Co.,Ltd.
F80D43 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing
Chongqing 401332
CN

38-F8-89 (hex) HUAWEI TECHNOLOGIES CO.,LTD
38F889 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D0-7A-B5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D07AB5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

90-4E-2B (hex) HUAWEI TECHNOLOGIES CO.,LTD
904E2B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

20-08-ED (hex) HUAWEI TECHNOLOGIES CO.,LTD
2008ED (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

84-74-2A (hex) zte corporation
84742A (base 16) zte corporation
12/F.,zte R&D building,kejinan Road,
shenzhen guangdong 518057
CN

9C-D2-4B (hex) zte corporation
9CD24B (base 16) zte
corporation
12/F.,zte R&D building,kejinan Road,
shenzhen guangdong 518057
CN

C8-7B-5B (hex) zte corporation
C87B5B (base 16) zte corporation
12/F.,zte R&D building,kejinan Road,
shenzhen guangdong 518057
CN

00-19-C6 (hex) zte corporation
0019C6 (base 16) zte corporation
Technology Management Department,
Shenzhen Guangdong 518057
CN

00-1D-D9 (hex) Hon Hai Precision Ind. Co.,Ltd.
001DD9 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

00-07-D8 (hex) Hitron Technologies. Inc
0007D8 (base 16) Hitron Technologies. Inc
135-220 Hitron B/D 726-5
Seoul 13456
KR

C0-3E-0F (hex) SKY UK LIMITED
C03E0F (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

7C-4C-A5 (hex) SKY UK LIMITED
7C4CA5 (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

CC-4E-24 (hex) Brocade
Communications Systems LLC
CC4E24 (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

90-F6-52 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
90F652 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park,Shennan Rd, Nanshan,
Shenzhen Guangdong Province, 518057
CN

14-CF-92 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
14CF92 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4)
shenzhen guangdong Province 518057
CN

20-DC-E6 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
20DCE6 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4)
shenzhen guangdong Province 518057
CN

14-CC-20 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
14CC20 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4)
Shennan Rd, Nanshan Shenzhen,Guangdong
Province 518057
CN

78-4B-87 (hex) Murata Manufacturing Co., Ltd.
784B87 (base 16) Murata Manufacturing Co., Ltd.
1-10-1,Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

E4-CE-02 (hex) WyreStorm Technologies Ltd
E4CE02 (base 16) WyreStorm Technologies Ltd
Tech Valley Park, 23 Wood Road

Round Lake New York 12151
GB

40-F3-08 (hex) Murata Manufacturing Co., Ltd.
40F308 (base 16) Murata Manufacturing Co., Ltd.
1-10-1 Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

00-19-7D (hex) Hon Hai Precision Ind. Co.,Ltd.
00197D (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

00-14-A4 (hex) Hon Hai Precision Ind. Co.,Ltd.
0014A4 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

78-DD-08 (hex) Hon Hai Precision Ind. Co.,Ltd.
78DD08 (base 16) Hon Hai Precision
Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

9C-D2-1E (hex) Hon Hai Precision Ind. Co.,Ltd.
9CD21E (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

00-E0-52 (hex) Brocade Communications Systems LLC
00E052 (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

00-01-0F (hex) Brocade Communications Systems LLC
00010F (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

08-00-88 (hex) Brocade Communications Systems LLC
080088 (base 16) Brocade Communications Systems LLC

1320 Ridder Park Dr
San Jose CA 95131
US

B4-30-52 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B43052 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-C0-6F (hex) HUAWEI
TECHNOLOGIES CO.,LTD
04C06F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District,
Shenzhen Guangdong 518108
CN

20-2B-C1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
202BC1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District,
Shenzhen Guangdong 518108
CN

54-A5-1B (hex) HUAWEI TECHNOLOGIES CO.,LTD
54A51B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District,
Shenzhen Guangdong 518108
CN

00-25-68 (hex) HUAWEI TECHNOLOGIES CO.,LTD
002568 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District,
Shenzhen Guangdong 518108
CN

78-1D-BA (hex) HUAWEI TECHNOLOGIES CO.,LTD
781DBA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
HUAWEI
Industrial Base Bantian,Longgang
Shenzhen guangdong 518129
CN

00-25-9E (hex) HUAWEI TECHNOLOGIES CO.,LTD
00259E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
B1-7,Huawei Base,Bantian, Longgang District,ShenZhen,GuangDong,CHINA
ShenZhen GuangDong 518129
CN

34-75-C7 (hex) Avaya Inc
3475C7 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

00-1B-4F (hex) Avaya Inc
001B4F (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

00-6B-8E (hex) Shanghai Feixun Communication Co.,Ltd.
006B8E (base 16) Shanghai Feixun Communication Co.,Ltd.
Building 90,No,4855,Guangfulin Road
shanghai Shanghai 201616
CN

D4-6A-A8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D46AA8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
Shenzhen 518129
CN

00-34-FE (hex) HUAWEI TECHNOLOGIES CO.,LTD
0034FE (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2
Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C8-51-95 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C85195 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

40-CB-A8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
40CBA8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate
Shenzhen GuangDong 518057
CN

D4-6E-5C (hex) HUAWEI TECHNOLOGIES CO.,LTD
D46E5C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate
Shenzhen GuangDong 518057
CN

80-D0-9B (hex) HUAWEI TECHNOLOGIES CO.,LTD
80D09B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

1C-8E-5C (hex) HUAWEI TECHNOLOGIES CO.,LTD
1C8E5C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road,
Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B8-BC-1B (hex) HUAWEI TECHNOLOGIES CO.,LTD
B8BC1B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

58-2A-F7 (hex) HUAWEI TECHNOLOGIES CO.,LTD
582AF7 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D4-B1-10 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D4B110 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
ShenZhen GuangDong 518129
CN

E4-68-A3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E468A3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
ShenZhen GuangDong 518129
CN

34-00-A3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
3400A3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base
Shenzhen Guangdong 518129
CN

FC-48-EF
(hex) HUAWEI TECHNOLOGIES CO.,LTD
FC48EF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1-4,Huawei Industrial Base,Bantian,Longgang

ShenZhen GuangDong 518129
CN

70-7B-E8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
707BE8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1-4,Huawei Industrial Base,Bantian,Longgang
ShenZhen GuangDong 518129
CN

4C-1F-CC (hex) HUAWEI TECHNOLOGIES CO.,LTD
4C1FCC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1-4,Huawei Industrial Base,Bantian,Longgang
ShenZhen GuangDong 518129
CN

4C-8B-EF (hex) HUAWEI TECHNOLOGIES CO.,LTD
4C8BEF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park,
Shenzhen Guangdong 518057
CN

88-53-D4 (hex) HUAWEI TECHNOLOGIES CO.,LTD
8853D4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District
Shenzhen Guangdong 518057
CN

B0-AD-AA (hex) Avaya Inc
B0ADAA
(base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

B4-47-5E (hex) Avaya Inc
B4475E (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

BC-AD-AB (hex) Avaya Inc
BCADAB (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

FC-A8-41 (hex) Avaya Inc
FCA841 (base 16) Avaya Inc

360 Mt Kemble Ave
Morristown NJ 07960
US

24-D9-21 (hex) Avaya Inc
24D921 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

84-83-71 (hex) Avaya Inc
848371 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

50-06-AB (hex) Cisco Systems, Inc
5006AB (base 16) Cisco Systems, Inc
80 West Tasman Dr.
San Jose CA 94568
US

00-03-DD (hex) Comark Interactive Solutions
0003DD (base 16) Comark Interactive Solutions
93 West St.
Medfield MA 02052
US

00-50-53 (hex) Cisco Systems, Inc
005053 (base 16) Cisco
Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-50-50 (hex) Cisco Systems, Inc
005050 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-E0-A3 (hex) Cisco Systems, Inc
00E0A3 (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

00-E0-8F (hex) Cisco Systems, Inc

00E08F (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

00-18-68 (hex) Cisco SPVTG
001868 (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

88-75-56 (hex) Cisco Systems, Inc
887556 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

FC-99-47 (hex) Cisco Systems, Inc
FC9947 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

6C-20-56 (hex) Cisco Systems, Inc
6C2056 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San
Jose CA 95134
US

00-90-6D (hex) Cisco Systems, Inc
00906D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-90-AB (hex) Cisco Systems, Inc
0090AB (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-50-54 (hex) Cisco Systems, Inc
005054 (base 16) Cisco Systems, Inc
170 W. TASMAN DR.
SAN JOSE CA 95134-1706
US

00-50-0B (hex) Cisco Systems, Inc
00500B (base 16) Cisco Systems, Inc
170 W. TASMAN DR.
SAN JOSE CA 95134-1706
US

08-CC-68 (hex) Cisco Systems, Inc
08CC68 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

0C-27-24 (hex) Cisco Systems, Inc
0C2724 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

6C-41-6A (hex) Cisco Systems, Inc
6C416A (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

EC-E1-A9 (hex) Cisco
Systems, Inc
ECE1A9 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

AC-F2-C5 (hex) Cisco Systems, Inc
ACF2C5 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

24-01-C7 (hex) Cisco Systems, Inc
2401C7 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

68-86-A7 (hex) Cisco Systems, Inc
6886A7 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

6C-EC-EB (hex) Texas Instruments
6CECEB (base 16) Texas Instruments
12500 TI BLVD
Dallas 75243
US

24-71-89 (hex) Texas Instruments
247189 (base 16) Texas Instruments
12500 TI BLVD
Dallas 75243
US

98-7B-F3 (hex) Texas Instruments
987BF3 (base 16) Texas Instruments
12500 TI BLVD
Dallas 75243
US

A0-F6-FD (hex) Texas Instruments
A0F6FD (base 16) Texas Instruments
12500 TI BLVD
Dallas
75243
US

00-90-2B (hex) Cisco Systems, Inc
00902B (base 16) Cisco Systems, Inc
170 W. TASMAN DR.
SAN JOSE CA 95134-1706
US

78-A5-04 (hex) Texas Instruments
78A504 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

D0-B5-C2 (hex) Texas Instruments
D0B5C2 (base 16) Texas Instruments
12500 TI BLVD
Dallas 75243
US

74-5E-1C (hex) PIONEER CORPORATION
745E1C (base 16) PIONEER CORPORATION
1-1 Shin-ogura
Kawasaki-shi Kanagawa Prefecture 2120031

JP

00-10-11 (hex) Cisco Systems, Inc
001011 (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

3C-0E-23 (hex) Cisco Systems, Inc
3C0E23 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

00-E0-18 (hex) ASUSTek COMPUTER INC.
00E018 (base 16) ASUSTek COMPUTER INC.
150 LI-TE RD.
PEITOU, TAIPEI 77777
TW

00-0C-6E (hex) ASUSTek COMPUTER
INC.
000C6E (base 16) ASUSTek COMPUTER INC.
150, Li-Te Rd., PeiTou
Taipei 112
TW

00-0E-A6 (hex) ASUSTek COMPUTER INC.
000EA6 (base 16) ASUSTek COMPUTER INC.
150, Li-Te Rd., PeiTou
Taipei 112
TW

00-23-BE (hex) Cisco SPVTG
0023BE (base 16) Cisco SPVTG
5030 Sugarloaf Pkwy
Lawrenceville GA 30044
US

18-59-33 (hex) Cisco SPVTG
185933 (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

44-58-29 (hex) Cisco SPVTG
445829 (base 16) Cisco SPVTG
5030 Sugarloaf Pkwy

Lawrenceville GA 30044
US

60-2A-D0 (hex) Cisco SPVTG
602AD0 (base 16) Cisco SPVTG
5030 Sugarloaf Pkwy
Lawrenceville GA 30044
US

88-1D-FC (hex) Cisco Systems, Inc
881DFC (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

1C-E8-5D (hex) Cisco Systems, Inc
1CE85D (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA
95134
US

A8-9D-21 (hex) Cisco Systems, Inc
A89D21 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

90-E6-BA (hex) ASUSTek COMPUTER INC.
90E6BA (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd.,Peitou,Taipei 112 ,Taiwan
Taipei Taiwan 112
TW

F4-6D-04 (hex) ASUSTek COMPUTER INC.
F46D04 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd.,Peitou,
Taipei 112
TW

6C-FA-89 (hex) Cisco Systems, Inc
6CFA89 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

F4-4E-05 (hex) Cisco Systems, Inc
F44E05 (base 16) Cisco Systems, Inc

170 West Tasman Drive
San Jose CA 95134
US

68-9C-E2 (hex) Cisco Systems, Inc
689CE2 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

A0-F8-49 (hex) Cisco Systems, Inc
A0F849 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

C0-67-AF
(hex) Cisco Systems, Inc
C067AF (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

C0-25-5C (hex) Cisco Systems, Inc
C0255C (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

00-1D-60 (hex) ASUSTek COMPUTER INC.
001D60 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd.,Peitou
Taipei 112
TW

00-15-F2 (hex) ASUSTek COMPUTER INC.
0015F2 (base 16) ASUSTek COMPUTER INC.
No.5 Shing Yeh Street,Kwei Shan Hsiang,Taoyuan
Taipei 333
TW

28-CF-E9 (hex) Apple, Inc.
28CFE9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-A0-40 (hex) Apple, Inc.

00A040 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-7E-8A (hex) Cisco Systems, Inc
AC7E8A (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

04-62-73 (hex) Cisco Systems, Inc
046273 (base 16) Cisco Systems,
Inc
170 West Tasman Drive
San Jose CA 95134
US

CC-08-E0 (hex) Apple, Inc.
CC08E0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-B4-79 (hex) Apple, Inc.
F0B479 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

10-93-E9 (hex) Apple, Inc.
1093E9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

44-2A-60 (hex) Apple, Inc.
442A60 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-00-0C (hex) Cisco Systems, Inc
00000C (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

D8-B1-90 (hex) Cisco Systems, Inc
D8B190 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

80-E8-6F (hex) Cisco Systems, Inc
80E86F (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

00-21-E9 (hex) Apple, Inc.
0021E9 (base 16) Apple,
Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-26-08 (hex) Apple, Inc.
002608 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-26-B0 (hex) Apple, Inc.
0026B0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-26-BB (hex) Apple, Inc.
0026BB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C8-2A-14 (hex) Apple, Inc.
C82A14 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

3C-07-54 (hex) Apple, Inc.
3C0754 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A4-B1-97 (hex) Apple, Inc.
A4B197 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-30-65 (hex) Apple, Inc.
003065 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-14-51 (hex) Apple, Inc.
001451 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-1E-52
(hex) Apple, Inc.
001E52 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D4-9A-20 (hex) Apple, Inc.
D49A20 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F8-1E-DF (hex) Apple, Inc.
F81EDF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A4-D1-D2 (hex) Apple, Inc.
A4D1D2 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

28-CF-DA (hex) Apple, Inc.
28CFDA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

04-54-53 (hex) Apple, Inc.
045453 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

3C-D0-F8 (hex) Apple, Inc.
3CD0F8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

68-09-27 (hex) Apple, Inc.
680927 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

6C-C2-6B (hex) Apple, Inc.
6CC26B (base 16) Apple, Inc.
1
Infinite Loop
Cupertino CA 95014
US

94-94-26 (hex) Apple, Inc.
949426 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

20-7D-74 (hex) Apple, Inc.
207D74 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F4-F1-5A (hex) Apple, Inc.
F4F15A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C8-6F-1D (hex) Apple, Inc.
C86F1D (base 16) Apple, Inc.
1 Infinite Loop

Cupertino CA 95014
US

30-90-AB (hex) Apple, Inc.
3090AB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

8C-2D-AA (hex) Apple, Inc.
8C2DAA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

84-85-06 (hex) Apple, Inc.
848506 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

98-FE-94 (hex) Apple, Inc.
98FE94 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-00-4D (hex) Apple,
Inc.
D8004D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

54-26-96 (hex) Apple, Inc.
542696 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

64-A3-CB (hex) Apple, Inc.
64A3CB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

30-F7-C5 (hex) Apple, Inc.
30F7C5 (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

40-B3-95 (hex) Apple, Inc.
40B395 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

44-FB-42 (hex) Apple, Inc.
44FB42 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E8-8D-28 (hex) Apple, Inc.
E88D28 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C8-B5-B7 (hex) Apple, Inc.
C8B5B7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

90-B2-1F (hex) Apple, Inc.
90B21F (base 16) Apple, Inc.
1 Infinite
Loop
Cupertino CA 95014
US

B8-E8-56 (hex) Apple, Inc.
B8E856 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-96-95 (hex) Apple, Inc.
D89695 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

44-D8-84 (hex) Apple, Inc.

44D884 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

64-20-0C (hex) Apple, Inc.
64200C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C8-33-4B (hex) Apple, Inc.
C8334B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

64-E6-82 (hex) Apple, Inc.
64E682 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F4-F9-51 (hex) Apple, Inc.
F4F951 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C0-63-94 (hex) Apple, Inc.
C06394 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

18-AF-8F (hex) Apple, Inc.
18AF8F
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

14-99-E2 (hex) Apple, Inc.
1499E2 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B4-18-D1 (hex) Apple, Inc.
B418D1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

9C-20-7B (hex) Apple, Inc.
9C207B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B0-65-BD (hex) Apple, Inc.
B065BD (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

50-D5-9C (hex) Thai Habel Industrial Co., Ltd.
50D59C (base 16) Thai Habel Industrial Co., Ltd.
3/1 - 3/3 RAMA 3 RD,
Bangkholaem Bangkok 10120
TH

6C-4A-39 (hex) BITA
6C4A39 (base 16) BITA
6/F, New Century Hotel Office Tower
BEI JING 100044
CN

84-7D-50 (hex) Holley Metering Limited
847D50 (base 16) Holley Metering Limited
181 Wuchang Avenue
Hangzhou Zhejiang 310023
CN

A0-99-9B
(hex) Apple, Inc.
A0999B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

24-24-0E (hex) Apple, Inc.
24240E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

90-3C-92 (hex) Apple, Inc.
903C92 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-1D-72 (hex) Apple, Inc.
D81D72 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

34-12-98 (hex) Apple, Inc.
341298 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

70-E7-2C (hex) Apple, Inc.
70E72C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

70-EC-E4 (hex) Apple, Inc.
70ECE4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-BB-2C (hex) Apple, Inc.
D8BB2C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D0-4F-7E (hex) Apple, Inc.
D04F7E (base 16) Apple, Inc.
1
Infinite Loop
Cupertino CA 95014
US

9C-F3-87 (hex) Apple, Inc.
9CF387 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

A8-5B-78 (hex) Apple, Inc.
A85B78 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-DB-F8 (hex) Apple, Inc.
F0DBF8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

48-74-6E (hex) Apple, Inc.
48746E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

54-AE-27 (hex) Apple, Inc.
54AE27 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C8-F6-50 (hex) Apple, Inc.
C8F650 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

FC-E9-98 (hex) Apple, Inc.
FCE998 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

0C-BC-9F (hex) Apple, Inc.
0CBC9F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

34-36-3B
(hex) Apple, Inc.
34363B (base 16) Apple, Inc.
1 Infinite Loop

Cupertino CA 95014
US

D0-A6-37 (hex) Apple, Inc.
D0A637 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

78-9F-70 (hex) Apple, Inc.
789F70 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

20-78-F0 (hex) Apple, Inc.
2078F0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E0-AC-CB (hex) Apple, Inc.
E0ACCB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

68-AE-20 (hex) Apple, Inc.
68AE20 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-87-A3 (hex) Apple, Inc.
AC87A3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A8-8E-24 (hex) Apple, Inc.
A88E24 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

30-52-CB (hex) Liteon Technology Corporation
3052CB (base 16) Liteon

Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

04-96-45 (hex) WUXI SKY CHIP INTERCONNECTION TECHNOLOGY CO.,LTD.
049645 (base 16) WUXI SKY CHIP INTERCONNECTION TECHNOLOGY CO.,LTD.
Building F12, China Sensor Network International Innovation park,200# Linghu Avenue,Wuxi.
WUXI Jiangsu 214135
CN

1C-CD-E5 (hex) Shanghai Wind Technologies Co.,Ltd
1CCDE5 (base 16) Shanghai Wind Technologies Co.,Ltd
Room 208,Section A, Building 3#, No.7 GuiQing Road, Xuhui District, Shanghai, China(Headquarter)
Shanghai Shanghai 200233
CN

88-C2-42 (hex) Poynt Co.
88C242 (base 16) Poynt Co.
490 S. California Avenue
Palo Alto California 94306
US

DC-82-F6 (hex) iPort
DC82F6 (base 16) iPort
236 Calle Pintoresco
San Clemente CA 92672
US

50-A9-DE (hex) Smartcom - Bulgaria AD
50A9DE (base 16) Smartcom - Bulgaria AD
BIC IZOT, Building 1, Floor 3, Office 317
Sofia Sofia
1784
BG

E0-34-E4 (hex) Feit Electric Company, Inc.
E034E4 (base 16) Feit Electric Company, Inc.
4901 Gregg Road
Pico Rivera CA 90660
US

34-C9-F0 (hex) LM Technologies Ltd
34C9F0 (base 16) LM Technologies Ltd
Unit 19 Spectrum House
London England NW5 1LP
GB

68-14-01 (hex) Hon Hai Precision Ind. Co.,Ltd.
681401 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

AC-1F-D7 (hex) Real Vision Technology Co.,Ltd.
AC1FD7 (base 16) Real Vision Technology Co.,Ltd.
A-805, 537, Dunchon-daero, Jungwon-gu
Seongnam-si Gyeonggi-do 13216
KR

68-A8-28 (hex) HUAWEI TECHNOLOGIES CO.,LTD
68A828 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

CC-20-E8 (hex) Apple, Inc.
CC20E8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

14-02-EC
(hex) Hewlett Packard Enterprise
1402EC (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

E8-DE-D6 (hex) Intrising Networks, Inc.
E8DED6 (base 16) Intrising Networks, Inc.
8F., No.67, Shitan Rd., Neihu Dist., Taipei City 11469
Taipei
TW

DC-DC-07 (hex) TRP Systems BV
DCDC07 (base 16) TRP Systems BV
Televisieweg 159 1322 BH Almere
Almere - -
NL

38-91-D5 (hex) Hangzhou H3C Technologies Co., Limited
3891D5 (base 16) Hangzhou H3C Technologies Co., Limited
466 Changhe Road, Binjiang District
Hangzhou Zhejiang, P.R.China 310052
CN

8C-E2-DA (hex) Circle Media Inc
8CE2DA (base 16) Circle Media Inc
1319 SE Martin Luther King Jr. Blvd.
Portland Oregon 97214
US

48-9A-42 (hex) Technomate Ltd
489A42 (base 16) Technomate Ltd
Unit 11 Nobel Road
London N18 3BH
GB

BC-9C-31 (hex) HUAWEI TECHNOLOGIES CO.,LTD
BC9C31 (base 16) HUAWEI
TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

70-48-0F (hex) Apple, Inc.
70480F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

3C-B7-2B (hex) PLUMgrid Inc
3CB72B (base 16) PLUMgrid Inc
5155 OLD IRONSIDES DR
Santa Clara CA 95054
US

D8-8B-4C (hex) KingTing Tech.
D88B4C (base 16) KingTing Tech.
8 Holly St
Irvine California 92612
US

48-BF-74 (hex) Baicells Technologies Co.,LTD
48BF74 (base 16) Baicells Technologies Co.,LTD
10F,Dinghao Electronics Plaza-B,No.3 Haidian St.,Haidian Dist.,Beijing,China
Beijing Beijing 10080
CN

6C-93-54 (hex) Yaojin Technology (Shenzhen) Co., LTD.
6C9354 (base 16) Yaojin Technology (Shenzhen) Co., LTD.
No.18,Zhulong Tian Road,Shuitian No.4 Industrial Area,Shiyan Street, Baoan District,Shenzhen,China
Shenzhen Guangdong 518108

CN

F0-B0-E7 (hex) Apple, Inc.
F0B0E7
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

20-D1-60 (hex) Private
20D160 (base 16) Private

38-21-87 (hex) Midea Group Co., Ltd.
382187 (base 16) Midea Group Co., Ltd.
No. 6 Midea Avenue,
Foshan Guangdong 528311
CN

78-D6-B2 (hex) Toshiba
78D6B2 (base 16) Toshiba
2-9,Suehiro-Cho
Ome Tokyo 1988710
JP

04-69-F8 (hex) Apple, Inc.
0469F8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-89-95 (hex) AzureWave Technology Inc.
AC8995 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

38-1C-23 (hex) Hilan Technology CO.,LTD
381C23 (base 16) Hilan Technology CO.,LTD
604,Block 1,Kai Da Er Building,No.168 TongSha Road,XiLi Town,Nanshan,Shenzhen,P.R.C
Shenzhen Guandong 518055
CN

20-C3-A4 (hex) RetailNext
20C3A4 (base 16) RetailNext
60 S. Market St, 10th Floor
San Jose
CA 95113
US

38-4C-90 (hex) ARRIS Group, Inc.
384C90 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

64-9A-12 (hex) P2 Mobile Technologies Limited
649A12 (base 16) P2 Mobile Technologies Limited
Unit 708, 7/F, Bio-Informatics Centre, No.2 Science Park West Avenue,
Hong Kong Hong Kong 00000
HK

E4-C2-D1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E4C2D1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

30-29-BE (hex) Shanghai MRDcom Co.,Ltd
3029BE (base 16) Shanghai MRDcom Co.,Ltd
NO.123 JULI RD
SHANGHAI PUDONG ZHANGJIANG HIGH-TECH PARK 201203
CN

D4-F4-BE (hex) Palo Alto Networks
D4F4BE (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

48-B6-20 (hex) ROLI Ltd.
48B620 (base 16) ROLI Ltd.
2 Glebe Road
London E8 4BD
GB

20-55-31 (hex) Samsung Electronics
Co.,Ltd
205531 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

30-7C-B2 (hex) ANOV FRANCE
307CB2 (base 16) ANOV FRANCE
100 CHEMIN DE BAILLOT
MONTAUBAN TARN ET GARONNE 82000

FR

84-79-73 (hex) Shanghai Baud Data Communication Co.,Ltd.
847973 (base 16) Shanghai Baud Data Communication Co.,Ltd.
NO.123 JULI RD
PUDONG ZHANGJIANG HIGH-TECH PARK SHANGHAI 201203
CN

E8-B4-C8 (hex) Samsung Electronics Co.,Ltd
E8B4C8 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D0-87-E2 (hex) Samsung Electronics Co.,Ltd
D087E2 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F0-5B-7B (hex) Samsung Electronics Co.,Ltd
F05B7B (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D8-88-CE (hex) RF Technology Pty Ltd
D888CE (base 16) RF Technology
Pty Ltd
46/7 Sefton Rd
Thornleigh NSW 2120
AU

7C-FE-90 (hex) Mellanox Technologies, Inc.
7CFE90 (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

60-FD-56 (hex) WOORISYSTEMS CO., Ltd
60FD56 (base 16) WOORISYSTEMS CO., Ltd
357-4, Neungpyeong-ri, Opo-eup
Gwangjiu-si Gyeonggi-do 464-921
KR

90-6F-A9 (hex) NANJING PUTIAN TELECOMMUNICATIONS TECHNOLOGY CO.,LTD.
906FA9 (base 16) NANJING PUTIAN TELECOMMUNICATIONS TECHNOLOGY CO.,LTD.
No.1 Putian Road,Yuhuamenwai,Nanjing

Nan Jing Jiang Su 210022
CN

84-5B-12 (hex) HUAWEI TECHNOLOGIES CO.,LTD
845B12 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B0-47-BF (hex) Samsung Electronics Co.,Ltd
B047BF (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

7C-0B-C6 (hex) Samsung Electronics
Co.,Ltd
7C0BC6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

98-70-E8 (hex) INNATECH SDN BHD
9870E8 (base 16) INNATECH SDN BHD
2, JALAN TIARA 3, TIARA SQUARE
SUBANG JAYA SELANGOR 47600
MY

44-65-6A (hex) Mega Video Electronic(HK) Industry Co., Ltd
44656A (base 16) Mega Video Electronic(HK) Industry Co., Ltd
Room 503, No.43 Fushun Street, Huanghai West Road,
Dalian Liaoning 116600
CN

78-EB-39 (hex) Instituto Nacional de Tecnología Industrial
78EB39 (base 16) Instituto Nacional de Tecnología Industrial
Av. Gral. Paz 5445
San Martín Buenos Aires 1650
AR

CC-5F-BF (hex) Topwise 3G Communication Co., Ltd.
CC5FBF (base 16) Topwise 3G Communication Co., Ltd.
6 Floor, A8 Music Building, Keyuan Road, High-Tech Park, Nanshan District, Shenzhen, China
Shenzhen Guangdong 518000
CN

E0-2C-B2 (hex) Lenovo Mobile Communication (Wuhan) Company Limited
E02CB2

(base 16) Lenovo Mobile Communication (Wuhan) Company Limited
No.19, Gaoxin 4th Road, Wuhan East Lake High-tech Zone, Wuhan, China 430205
Wuhan Hubei 430205
CN

D4-7B-B0 (hex) ASKEY COMPUTER CORP
D47BB0 (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

F0-22-4E (hex) Esan electronic co.
F0224E (base 16) Esan electronic co.
D&I Building 2nd floor
Gun-Po Kyunggido 435-862
KR

C8-F9-C8 (hex) NewSharp Technology(SuZhou)Co,Ltd
C8F9C8 (base 16) NewSharp Technology(SuZhou)Co,Ltd
1st/f.building 7th No.328 XingHu street SuZhou City
SuZhou City JiangSu Province 215123
CN

A8-A7-95 (hex) Hon Hai Precision Ind. Co.,Ltd.
A8A795 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

10-86-8C (hex) ARRIS Group, Inc.
10868C (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San
Diego CA 92121
US

0C-75-6C (hex) Anaren Microwave, Inc.
0C756C (base 16) Anaren Microwave, Inc.
6635 Kirkville Road
East Syracuse NY 13057
US

44-FD-A3 (hex) Everysight LTD.
44FDA3 (base 16) Everysight LTD.
Advanced Technology Center P.O.B 539
Haifa Haifa 31053
IL

54-40-AD (hex) Samsung Electronics Co.,Ltd
5440AD (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

14-5A-83 (hex) Logi-D inc
145A83 (base 16) Logi-D inc
5550 Des Rossignol Blvd
Laval Quebec H7L 5W6
CA

54-CD-10 (hex) Panasonic Mobile Communications Co.,Ltd.
54CD10 (base 16) Panasonic Mobile Communications Co.,Ltd.
600 Saedo-cho Tsuzuki-ku
Yokohama City Kanagawa 224-8539
JP

68-ED-A4 (hex) Shenzhen Seavo Technology Co.,Ltd
68EDA4 (base 16) Shenzhen Seavo Technology Co.,Ltd
5H,West Building,NO.210,Terra Hi-Tech Industrial Park,
Shenzhen Guangdong 518040
CN

2C-C5-D3
(hex) Ruckus Wireless
2CC5D3 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

80-C5-E6 (hex) Microsoft Corporation
80C5E6 (base 16) Microsoft Corporation
1 Microsoft Way
Redmond Washington 98052
FI

60-6D-C7 (hex) Hon Hai Precision Ind. Co.,Ltd.
606DC7 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

10-DF-8B (hex) Shenzhen CareDear Communication Technology Co.,Ltd
10DF8B (base 16) Shenzhen CareDear Communication Technology Co.,Ltd
No.605,6th floor, 1st Section, 25th Building, Science and Technology Park Industrial Zone, median space, High-tech Zone
ShenZhen Guangdong 518000

CN

80-4E-81 (hex) Samsung Electronics Co.,Ltd
804E81 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C4-12-F5 (hex) D-Link International
C412F5 (base 16) D-Link International
1
Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

FC-E1-FB (hex) Array Networks
FCE1FB (base 16) Array Networks
1371 McCarthy Blvd
Milpitas California 95035
US

E8-91-20 (hex) Motorola Mobility LLC, a Lenovo Company
E89120 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

D4-F9-A1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D4F9A1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

48-06-6A (hex) Tempered Networks, Inc.
48066A (base 16) Tempered Networks, Inc.
100 West Harrison St
Seattle WA 98119
US

BC-F8-11 (hex) Xiamen DNAKE Technology Co.,Ltd
BCF811 (base 16) Xiamen DNAKE Technology Co.,Ltd
5F,Xingtel Building,Chuangxin Rd.
Xiamen Fujian 361006
CN

D0-C0-BF (hex) Actions Microelectronics Co., Ltd
D0C0BF (base

16) Actions Microelectronics Co., Ltd
201, No 9 Building, Software Park,Kejizhonger Rd.,
Shenzhen Gangdong 518057
CN

FC-8F-90 (hex) Samsung Electronics Co.,Ltd
FC8F90 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

A4-24-DD (hex) Cambrionix Ltd
A424DD (base 16) Cambrionix Ltd
St Johns Innovation Centre
Cambridge Cambridgeshire CB4 0WS
GB

90-0A-39 (hex) Wiio, Inc.
900A39 (base 16) Wiio, Inc.
99 S. Almaden Boulevard
San Jose California 95113
US

74-04-2B (hex) Lenovo Mobile Communication (Wuhan) Company Limited
74042B (base 16) Lenovo Mobile Communication (Wuhan) Company Limited
No.19, Gaoxin 4th Road, Wuhan East Lake High-tech Zone, Wuhan, China 430205
Wuhan Hubei 430205
CN

D0-5C-7A (hex) Sartura d.o.o.
D05C7A (base 16) Sartura d.o.o.
Kuniscak 28
Zagreb 10000
HR

BC-5C-4C (hex) ELECOM CO.,LTD.
BC5C4C (base
16) ELECOM CO.,LTD.
2F Kudan First Place Bldg. 4-1-28
Chiyoda-ku Kudan Kita 102-0073
JP

44-80-EB (hex) Motorola Mobility LLC, a Lenovo Company
4480EB (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

F8-7A-EF (hex) Rosonix Technology, Inc.
F87AEF (base 16) Rosonix Technology, Inc.
10F, No.235, Sec. 4, Chengde Rd.,
Taipei Taiwan 11167
TW

20-28-BC (hex) Visionscape Co,. Ltd.
2028BC (base 16) Visionscape Co,. Ltd.
503, 145, Gasan Digital 1-ro, Geumcheon-gu,
Seoul Korea 153-787
KR

58-70-C6 (hex) Shanghai Xiaoyi Technology Co., Ltd.
5870C6 (base 16) Shanghai Xiaoyi Technology Co., Ltd.
Shanghai Zhangjiang hi-tech park of Pudong New Area
Shanghai Shanghai 201120
CN

64-16-7F (hex) Polycom
64167F (base 16) Polycom
6001 America Center Drive
San Jose CA 95002
US

C0-9A-71 (hex) XIAMEN MEITU MOBILE TECHNOLOGY
CO.LTD
C09A71 (base 16) XIAMEN MEITU MOBILE TECHNOLOGY CO.LTD
1-3F, Block2, No.6 Wanghai Rd,Siming District, Xiamen, Fujian, China (”MEITU”)
Xiamen Fujian 361008
CN

34-0B-40 (hex) MIOS ELETTRONICA SRL
340B40 (base 16) MIOS ELETTRONICA SRL
VIA ARCHIMEDE, 10
SAN MARTINO B.A. (VR) VERONA 37036
IT

24-1C-04 (hex) SHENZHEN JEHE TECHNOLOGY DEVELOPMENT CO., LTD.
241C04 (base 16) SHENZHEN JEHE TECHNOLOGY DEVELOPMENT CO., LTD.
2/F, Block A, Tsinghua Information Harbor, North Section
Shenzhen Guangdong 518057
CN

88-70-33 (hex) Hangzhou Silan Microelectronic Inc
887033 (base 16) Hangzhou Silan Microelectronic Inc
No.4 HuangGuShan Road
Hangzhou Zhejiang 310012
CN

DC-56-E6 (hex) Shenzhen Bococom Technology Co.,LTD
DC56E6 (base 16) Shenzhen Bococom Technology Co.,LTD
303, Dongjiang Environmental Build, LangShan Road.
Shenzhen Guangdong 518000
CN

14-41-46 (hex) Honeywell (China) Co., LTD
144146
(base 16) Honeywell (China) Co., LTD
No. 100, Zunyi Road, Changning District
Shanghai Shanghai 200051
CN

CC-96-35 (hex) LVS Co.,Ltd.
CC9635 (base 16) LVS Co.,Ltd.
SmartValley B # 801
Incheon 406-840
KR

40-28-14 (hex) RFI Engineering
402814 (base 16) RFI Engineering
Markerkant 13-76
Almere Flevoland 1314AN
NL

E8-61-BE (hex) Melec Inc.
E861BE (base 16) Melec Inc.
516-10 Higashiasakawamachi
Hachioji Tokyo 193-0834
JP

C4-8E-8F (hex) Hon Hai Precision Ind. Co.,Ltd.
C48E8F (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

54-36-9B (hex) 1Verge Internet Technology (Beijing) Co., Ltd.
54369B (base 16) 1Verge Internet Technology (Beijing) Co., Ltd.
5th Floor, Sinosteel International Plaza
Haidian District Beijing
CN

50-50-2A (hex) Egardia
50502A (base 16) Egardia
Kleine Landtong 19
Gorinchem

Zuid Holland 4201 HL
NL

94-F1-9E (hex) HUIZHOU MAORONG INTELLIGENT TECHNOLOGY CO.,LTD
94F19E (base 16) HUIZHOU MAORONG INTELLIGENT TECHNOLOGY CO.,LTD
China Guangdong Huizhou
Huizhou Guangdong 516000
CN

B8-56-BD (hex) ITT LLC
B856BD (base 16) ITT LLC
1-ya Brestkaya St, building 35
Moscow 125047
RU

C4-92-4C (hex) KEISOKUKI CENTER CO.,LTD.
C4924C (base 16) KEISOKUKI CENTER CO.,LTD.
2-6-7 SAKANE
KAWANISHI-CITY HYOGO 666-0021
JP

74-9C-E3 (hex) KodaCloud Canada, Inc
749CE3 (base 16) KodaCloud Canada, Inc
Suite 310
Ottawa Ontario K2K3G4
CA

40-62-B6 (hex) Tele system communication
4062B6 (base 16) Tele system communication
5F, No.437, Tao Ying Rd
Taoyuan 33068
TW

60-12-8B (hex) CANON INC.
60128B (base 16) CANON INC.
30-2 Shimomaruko 3-chome,
Ohta-ku Tokyo 146-8501
JP

84-C3-E8 (hex) Vaillant GmbH
84C3E8 (base 16) Vaillant GmbH
Berghauser
Straße 40
Remscheid NRW D-42859
DE

40-A5-EF (hex) Shenzhen Four Seas Global Link Network Technology Co., Ltd.
40A5EF (base 16) Shenzhen Four Seas Global Link Network Technology Co., Ltd.

Room 607-610, Block B, TAOJINDI Electronic Business Incubation Base
Tenglong Road, Longhua District, Shenzhen Guangdong 518000
CN

A8-9F-BA (hex) Samsung Electronics Co.,Ltd
A89FBA (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

9C-D3-5B (hex) Samsung Electronics Co.,Ltd
9CD35B (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D4-55-56 (hex) Fiber Mountain Inc.
D45556 (base 16) Fiber Mountain Inc.
700 W Johnson Ave
Cheshire CT 06410
US

4C-A5-15 (hex) Baikal Electronics JSC
4CA515 (base 16) Baikal Electronics JSC
Highway Baltic 26 km, BC 'RigaLand, Block B, 3-rd entrance, 2-nd floor.
Krasnogorsk district Moscow
region 143421
RU

7C-3C-B6 (hex) Shenzhen Homecare Technology Co.,Ltd.
7C3CB6 (base 16) Shenzhen Homecare Technology Co.,Ltd.
Homecare Industrial Zone,NO.30,Langdong road,Yangchuan,Songgang Town,Bao'an Distric ,
Shenzhen Guangdong 5108105
CN

1C-7D-22 (hex) FUJIFILM Business Innovation Corp.
1C7D22 (base 16) FUJIFILM Business Innovation Corp.
6-1 Minatomirai, Nishi-ku
Yokohama Kanagawa 220-8668
JP

B8-8E-C6 (hex) Stateless Networks
B88EC6 (base 16) Stateless Networks
388 Market Street
San Francisco CA 94111
US

BC-D1-65 (hex) Cisco SPVTG

BCD165 (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

28-E4-76 (hex) Pi-Coral
28E476 (base 16) Pi-Coral
2130 Gold Street, Ste. 200
San Jose CA - California 95002
US

48-86-E8 (hex) Microsoft Corporation
4886E8 (base 16) Microsoft Corporation
1 Microsoft Way
Redmond Washington 98052
FI

74-A3-4A
(hex) ZIMI CORPORATION
74A34A (base 16) ZIMI CORPORATION
Room A913, 159 Chengjiang Road, Jiangyin City, Jiangsu Province, P, R.China
214400
CN

20-C0-6D (hex) SHENZHEN SPACETEK TECHNOLOGY CO.,LTD
20C06D (base 16) SHENZHEN SPACETEK TECHNOLOGY CO.,LTD
3F, NO.2, ChaXiSanWei Industrial Park, Gushu Community, XiXiang Street, BaoAn District
ShenZhen GuangDong 518100

74-96-37 (hex) Todaair Electronic Co., Ltd
749637 (base 16) Todaair Electronic Co., Ltd
F.6 Electronic Building, No.1 Shuinan Guangdeli RoadPeng'Jiang District, Jiangmen, Guangdong, China
JiangMen Guangdong 529000
CN

2C-AD-13 (hex) SHENZHEN ZHILU TECHNOLOGY CO.,LTD
2CAD13 (base 16) SHENZHEN ZHILU TECHNOLOGY CO.,LTD
B2-402 Kexin Science Park, Keyuan Road, Hi-tech Park, Nanshan District, Shenzhen
shenzhen Guangdong 518052
CN

78-AC-BF (hex) Igneous Systems
78ACBF (base 16) Igneous Systems
2401 4th Ave
Seattle WA 98121
US

40-D2-8A
(hex) Nintendo Co., Ltd.
40D28A (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

88-E6-03 (hex) Avotek corporation
88E603 (base 16) Avotek corporation
9-17, Dongil-ro 174-gil, Nowon-gu, Seoul
Seoul Seoul 139-808
KR

DC-60-A1 (hex) Teledyne DALSA Professional Imaging
DC60A1 (base 16) Teledyne DALSA Professional Imaging
High Tech Campus 27
Eindhoven NB 5656 AE
NL

68-28-F6 (hex) Vubiq Networks, Inc.
6828F6 (base 16) Vubiq Networks, Inc.
9231 Irvine Blvd.
Irvine California 92618
US

10-A6-59 (hex) Mobile Create Co.,Ltd.
10A659 (base 16) Mobile Create Co.,Ltd.
Kakukita 2-20-8
Oita 870-0848
JP

58-85-6E (hex) QSC AG
58856E (base 16) QSC AG
Mathias-Brueggen-Str. 55
Köln 50829
DE

EC-59-E7 (hex) Microsoft Corporation
EC59E7 (base 16) Microsoft Corporation
1 Microsoft Way
Redmond
Washington 98052
FI

C0-35-C5 (hex) Prosoft Systems LTD
C035C5 (base 16) Prosoft Systems LTD
Volgogradskaya 194-a
Ekaterinburg Sverdlovskay 620102

RU

A0-A3-E2 (hex) Actiontec Electronics, Inc
A0A3E2 (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

74-54-7D (hex) Cisco SPVTG
74547D (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

D0-5B-A8 (hex) zte corporation
D05BA8 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

E4-BA-D9 (hex) 360 Fly Inc.
E4BAD9 (base 16) 360 Fly Inc.
1000 Town Center Blvd
Canonsburg PA 15317
US

10-C6-7E (hex) SHENZHEN JUCHIN TECHNOLOGY CO., LTD
10C67E (base 16) SHENZHEN JUCHIN TECHNOLOGY CO., LTD
Unit 423 4/B NO.1, Central Business District
Shenzhen Guangdong 518000
CN

00-E6-E8 (hex) Netzin Technology Corporation,.Ltd.
00E6E8
(base 16) Netzin Technology Corporation,.Ltd.
4F-17, No. 26, Lane 321, Yang-Kuang St.,Neihu District, Taipei, Taiwan,
Taiwan Taipei Taiwan Taipei 11491
TW

50-F4-3C (hex) Leeo Inc
50F43C (base 16) Leeo Inc
989 Comercial St
Palo Alto CA 94303
US

E8-87-A3 (hex) Loxley Public Company Limited
E887A3 (base 16) Loxley Public Company Limited
102 Na Ranong Road, Klongtoey,

Bangkok 10110
TH

8C-91-09 (hex) Toyoshima Electric Technoeogy(Suzhou) Co.,Ltd.
8C9109 (base 16) Toyoshima Electric Technoeogy(Suzhou) Co.,Ltd.
No.399,Baisheng Road,Jinxi Town
Kunshan Jiangsu 215324
CN

54-09-8D (hex) deister electronic GmbH
54098D (base 16) deister electronic GmbH
Hermann-Bahlsen-Str. 11
Barsinghausen Niedersachsen 30890
DE

D8-CB-8A (hex) Micro-Star INTL CO., LTD.
D8CB8A (base 16) Micro-Star INTL CO., LTD.
No.69, Lide St.,
New Taipei City Taiwan 235
TW

08-EB-29
(hex) Jiangsu Huitong Group Co.,Ltd.
08EB29 (base 16) Jiangsu Huitong Group Co.,Ltd.
No. 24, Block 2, Taohuawu New District
Zhenjiang Jiangsu 212003
CN

08-A5-C8 (hex) Sunnovo International Limited
08A5C8 (base 16) Sunnovo International Limited
1717 Haitai Building
Beijing Beijing 100083
CN

A8-64-05 (hex) nimbus 9, Inc
A86405 (base 16) nimbus 9, Inc
29 W. Cimarron St.
Colorado Springs CO 80903
US

D4-61-32 (hex) Pro Concept Manufacturer Co.,Ltd.
D46132 (base 16) Pro Concept Manufacturer Co.,Ltd.
88/1 Moo12 Soi Phetkasem120
Kratumbaen Samutsakorn 74130
TH

54-A0-50 (hex) ASUSTek COMPUTER INC.
54A050 (base 16) ASUSTek COMPUTER INC.

15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

BC-6B-4D (hex) Nokia
BC6B4D (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

C8-D0-19 (hex) Shanghai Tigercel Communication Technology Co.,Ltd
C8D019
(base 16) Shanghai Tigercel Communication Technology Co.,Ltd
Room 805, building 1
Shanghai 200235
CN

84-86-F3 (hex) Greenvity Communications
8486F3 (base 16) Greenvity Communications
673 S. Milpitas Blvd Suite 204
Milpitas California 95035
US

58-10-8C (hex) Intelbras
58108C (base 16) Intelbras
BR 101, km 210, S/N°
São José Santa Catarina 88104800
BR

2C-37-96 (hex) CYBO CO.,LTD.
2C3796 (base 16) CYBO CO.,LTD.
218 MOO 3 LAEM CHA BANG
SRIRACHA CHONBURI 20230
TH

58-7F-B7 (hex) SONAR INDUSTRIAL CO., LTD.
587FB7 (base 16) SONAR INDUSTRIAL CO., LTD.
29, 29/1, 29/2, MOO.3, THATALAD,
SAMPRAN NAKORN PATHOM 73110
TH

F8-84-79 (hex) Yaojin Technology(Shenzhen)Co.,Ltd
F88479 (base 16) Yaojin Technology(Shenzhen)Co.,Ltd
Yaojin Park, Shui Tian No.4 Industrial Area ShiYan Tow,
SHENZHEN GUANGDONG 518108
CN

90-21-81 (hex) Shanghai Huaqin Telecom Technology Co.,Ltd

902181
(base 16) Shanghai Huaqin Telecom Technology Co.,Ltd
No.1 Building,399 Keyuan Road, Zhangjian Hi-Tech Park,
shanghai shanghai 201203
CN

84-96-81 (hex) Cathay Communication Co.,Ltd
849681 (base 16) Cathay Communication Co.,Ltd
Tsinghua Institude A319 of Hi-tech Park,Nanshan district,Shenzhen China
Shenzhen Canton 0755
CN

2C-A3-0E (hex) POWER DRAGON DEVELOPMENT LIMITED
2CA30E (base 16) POWER DRAGON DEVELOPMENT LIMITED
Room D, 10/F Tower A, Billion Centre, 1 Wang Kwong Road, Kowloon Bay
HONG KONG HONG KONG 999077
CN

2C-29-97 (hex) Microsoft Corporation
2C2997 (base 16) Microsoft Corporation
1 Microsoft Way
Redmond Washington 98052
FI

90-8C-09 (hex) Total Phase
908C09 (base 16) Total Phase
735 Palomar Ave
Sunnyvale CA 94085
US

4C-2C-83 (hex) Zhejiang KaNong Network Technology Co.,Ltd.
4C2C83 (base 16) Zhejiang KaNong Network Technology Co.,Ltd.
Room 633, Building B,
ShunFan Technology Park,JingChang Road No.768, YuHang District
Hangzhou Zhejiang 310000
CN

4C-74-03 (hex) BQ
4C7403 (base 16) BQ
c Sofía 10. Polígono Europólis
Las Rozas de Madrid Madrid 28230
ES

8C-5D-60 (hex) UCI Corporation Co.,Ltd.
8C5D60 (base 16) UCI Corporation Co.,Ltd.
299/195-7, Chaengwattana Road,
Bangkok Bangkok 10210
TH

DC-2F-03 (hex) Step forward Group Co., Ltd.
DC2F03 (base 16) Step forward Group Co., Ltd.
1/3 Park Village Rama2 Floor 2 C2-2
Bangkok Bangkok 10150
TH

38-0E-7B (hex) V.P.S. Thai Co., Ltd
380E7B (base 16) V.P.S. Thai Co., Ltd
279-281 Mangkorn Rd., Pomprab District
Bangkok Bangkok 10100
TH

40-9B-0D (hex) Shenzhen Yourf Kwan Industrial Co., Ltd
409B0D (base 16) Shenzhen Yourf Kwan Industrial Co., Ltd
MCN Edifice 5D, R1 Building, No.21 4th Hi-tech Road South, High-tech Industrial Park(south)
Shenzhen Guangdong 518057
CN

70-FC-8C (hex) OneAccess
SA
70FC8C (base 16) OneAccess SA
381 avenue du général de Gaulle
CLAMART France 92140
FR

80-F8-EB (hex) RayTight
80F8EB (base 16) RayTight
Room 1-216, Building 25, No 9, Anningzhuang West Road
Haidian District Beijing 100085
CN

D4-37-D7 (hex) zte corporation
D437D7 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

2C-1A-31 (hex) Electronics Company Limited
2C1A31 (base 16) Electronics Company Limited
Units 12,15&16,8/F,Metro Centre 2
Kowloon Bay HongKong 852
CN

20-12-D5 (hex) Scientech Materials Corporation
2012D5 (base 16) Scientech Materials Corporation
No.7, Hejiang 2nd Rd., Chungli , Taoyuan Hsien 320, Taiwan
Taoyuan Hsien Chungli 320

TW

6C-6E-FE (hex) Core Logic Inc.
6C6EFE (base 16) Core Logic Inc.
11th Fl., 1-B U-SPACE Bldg.
Seongnam Gyeonggi-do 463-400
KR

38-08-FD (hex) Silca
Spa
3808FD (base 16) Silca Spa
Via Podgora, 20 (Z.I.)
Vittorio Veneto TV 31029
IT

2C-01-0B (hex) NASCENT Technology, LLC - RemKon
2C010B (base 16) NASCENT Technology, LLC - RemKon
2744 Yorkmont Road
Charlotte NC 28208

04-DE-DB (hex) Rockport Networks Inc
04DEDB (base 16) Rockport Networks Inc
515 Legget Dr., Suite 600
Kanata ON K2K 3G4
CA

1C-48-40 (hex) IMS Messsysteme GmbH
1C4840 (base 16) IMS Messsysteme GmbH
Dieselstr. 55
Heiligenhaus NRW D-42579
DE

54-DF-00 (hex) Ulterius Technologies, LLC
54DF00 (base 16) Ulterius Technologies, LLC
1625 N. Waterfront Parkway
Wichita KS 67206
US

20-ED-74 (hex) Ability enterprise co.,Ltd.
20ED74 (base 16) Ability enterprise co.,Ltd.
4F., No.8, Ln.7, Wuquan Rd, Wugu Dist, New Taipei City 24886, Taiwan(R.O.C)
Taipei Taipei 24886
TW

14-48-8B (hex) Shenzhen Doov Technology Co.,Ltd
14488B (base 16) Shenzhen

Doov Technology Co.,Ltd
11st Floor,East,2nd Phase
Futian District, Shenzhen Guangdong 518040
CN

1C-52-16 (hex) DONGGUAN HELE ELECTRONICS CO., LTD
1C5216 (base 16) DONGGUAN HELE ELECTRONICS CO., LTD
Lijiangwei Group,
Dongguan City Guangdong 86
CN

94-CE-31 (hex) CTS Limited
94CE31 (base 16) CTS Limited
1st district, 23D, 21
Moscow - 142784
RU

78-45-61 (hex) CyberTAN Technology Inc.
784561 (base 16) CyberTAN Technology Inc.
99 Park Ave III, Hsinchu Science Park
Hsinchu 308
TW

60-99-D1 (hex) Vuzix / Lenovo
6099D1 (base 16) Vuzix / Lenovo
2166 Brighton Henrietta Town Line Road
Rochester NY 14623
US

B0-45-15 (hex) mira fitness,LLC.
B04515 (base 16) mira fitness,LLC.
1925 West Field Court Suite100
Lake Forest IL 60045
US

60-50-C1 (hex) Kinetek Sports
6050C1 (base 16) Kinetek Sports
16885 Via Del Campo Ct.
San Diego Ca 92127
US

90-B6-86
(hex) Murata Manufacturing Co., Ltd.
90B686 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

EC-D9-D1 (hex) Shenzhen TG-NET Botone Technology Co.,Ltd.
ECD9D1 (base 16) Shenzhen TG-NET Botone Technology Co.,Ltd.
East F/3,No.38 Huarong Second Industry Zone
Shenzhen Guangdong 518109
CN

6C-02-73 (hex) Shenzhen Jin Yun Video Equipment Co., Ltd.
6C0273 (base 16) Shenzhen Jin Yun Video Equipment Co., Ltd.
4th floor, 78th, Matou Road
Shenzhen Guangdong 518000
CN

28-29-CC (hex) Corsa Technology Incorporated
2829CC (base 16) Corsa Technology Incorporated
505 March Road
Ottawa Ontario K2K 3A4
CA

E8-5D-6B (hex) Luminate Wireless
E85D6B (base 16) Luminate Wireless
20823 Stevens Creek Blvd, Suite 300
Cupertino CA 95014
US

94-AE-E3 (hex) Belden Hirschmann Industries (Suzhou) Ltd.
94AEE3 (base 16) Belden Hirschmann Industries (Suzhou) Ltd.
333 Yanhu Road, Huaqiao Town
Kunshan Jiangsu 215332
CN

A0-56-B2 (hex) Harman/Becker Automotive Systems GmbH
A056B2 (base 16) Harman/Becker Automotive Systems GmbH
Becker-Göring-Straße 16
Karlsbad Baden-Württemberg 76307
DE

44-66-6E (hex) IP-LINE
44666E (base 16) IP-LINE
#204, Gangseo B/D
Guro-gu Seoul 152-826
KR

5C-B6-CC (hex) NovaComm Technologies Inc.
5CB6CC (base 16) NovaComm Technologies Inc.
902A, #560 Shengxia Rd., ZJ Inno Park
Shanghai 201203
CN

70-5B-2E (hex) M2Communication Inc.
705B2E (base 16) M2Communication Inc.
Room 12, 18F., No.65, Gaotie 7th Road
Zhubei City Hsinchu County 302
TW

5C-15-15 (hex) ADVAN
5C1515 (base 16) ADVAN
Wisma SMR.JL.Yos Sudarso Kav 89,Lt8.Suite 804,Jakarta Utara 10730
Jakarta Jakarta Utara
ID

24-4F-1D (hex) iRule LLC
244F1D (base 16) iRule LLC
1555 Broadway St
Detroit MI 48226
US

B4-0A-C6
(hex) DEXON Systems Ltd.
B40AC6 (base 16) DEXON Systems Ltd.
Baross u. 165
Budaors Pest H-2040
HU

D0-59-E4 (hex) Samsung Electronics Co.,Ltd
D059E4 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

14-A3-64 (hex) Samsung Electronics Co.,Ltd
14A364 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

50-FE-F2 (hex) Sify Technologies Ltd
50FEF2 (base 16) Sify Technologies Ltd
II floor, TIDEL Park,
chennai Tamilnadu 600113
IN

48-1A-84 (hex) Pointer Telocation Ltd
481A84 (base 16) Pointer Telocation Ltd
14 Hamelacha Street,
Rosh Ha’ayin Israel 48091

IL

DC-66-3A (hex) Apacer Technology Inc.
DC663A (base 16) Apacer Technology Inc.
1F., No.32, Zhongcheng Rd., Tucheng Dist.,
New Taipei City Taiwan R.O.C. 236
TW

08-DF-1F (hex) Bose Corporation
08DF1F (base 16) Bose Corporation
The Mountain
Framingham
MA 01701-9168
US

18-4A-6F (hex) Alcatel-Lucent Shanghai Bell Co., Ltd
184A6F (base 16) Alcatel-Lucent Shanghai Bell Co., Ltd
No. 389, Ningqiao Road, Pudong Jinqiao
Shanghai 201206
CN

34-C5-D0 (hex) Hagleitner Hygiene International GmbH
34C5D0 (base 16) Hagleitner Hygiene International GmbH
Lunastrasse 5
Zell am See Salzburg 5700
AT

10-C3-7B (hex) ASUSTek COMPUTER INC.
10C37B (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

58-1F-67 (hex) Open-m technology limited
581F67 (base 16) Open-m technology limited
logan century buildding ,No.23 of Hai xiu road
Shenzhen Guangdong 518000
CN

A0-12-DB (hex) TABUCHI ELECTRIC CO.,LTD
A012DB (base 16) TABUCHI ELECTRIC CO.,LTD
4-2-21
OSAKA 532-0003
JP

B4-0B-44 (hex) Smartisan Technology Co., Ltd.
B40B44 (base 16) Smartisan Technology Co., Ltd.
7/F, Motorola

Bldg., 1st Wangjing East Rd,
Beijing 100102
CN

34-31-C4 (hex) AVM GmbH
3431C4 (base 16) AVM GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

48-26-E8 (hex) Tek-Air Systems, Inc.
4826E8 (base 16) Tek-Air Systems, Inc.
41 Eagle Road
Danbury CT 06810
US

D0-5A-F1 (hex) Shenzhen Pulier Tech CO.,Ltd
D05AF1 (base 16) Shenzhen Pulier Tech CO.,Ltd
3rd Floor, NO. B Buliding, District A, Shajing minzhu jiujiu industrial park , Shenzhen, China
Shenzhen Guangdong 518104
CN

FC-E1-86 (hex) A3M Co., LTD
FCE186 (base 16) A3M Co., LTD
KeumJeong Highview 2F #205,
Gunpo Gyeonggi 435-845
KR

54-EF-92 (hex) Shenzhen Elink Technology Co., LTD
54EF92 (base 16) Shenzhen Elink Technology Co., LTD
A531, Famous, No 168 Bao Yuan Road,
Shenzhen Guangdong 518000
CN

70-30-5D (hex) Ubiquoss Inc
70305D (base 16) Ubiquoss Inc
8F Ubiquoss B/D, 68, Pangyo-ro 255beon-gil, Bundang-gu
Seongnam-si
Gyeonggi-do 463-400
KR

54-C8-0F (hex) TP-LINK TECHNOLOGIES CO.,LTD.
54C80F (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

E4-D3-32 (hex) TP-LINK TECHNOLOGIES CO.,LTD.

E4D332 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

EC-E5-12 (hex) tado GmbH
ECE512 (base 16) tado GmbH
Lindwurmstr. 76
Munich Bavaria 80337
DE

30-91-8F (hex) Technicolor Delivery Technologies Belgium NV
30918F (base 16) Technicolor Delivery Technologies Belgium NV
Prins Boudewijnlaan 47
Edegem - Belgium B-2650
BE

5C-F4-AB (hex) Zyxel Communications Corporation
5CF4AB (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu
Taiwan 300
TW

08-B2-A3 (hex) Cynny Italia S.r.L.
08B2A3 (base 16) Cynny Italia S.r.L.
Via delle Mantellate, 8
Firenze FI 59021
IT

A0-DA-92 (hex) Nanjing Glarun Atten Technology Co. Ltd.
A0DA92 (base 16) Nanjing Glarun Atten Technology Co. Ltd.
Dinghuai men No. 1, Gulou District

CN

40-B3-CD (hex) Chiyoda Electronics Co.,Ltd.
40B3CD (base 16) Chiyoda Electronics Co.,Ltd.
1-3-11 Nishiki-cho
Warabi Saitama
JP

24-33-6C (hex) Private
24336C (base 16) Private

D4-CF-F9 (hex) Shenzhen SEI Robotics Co.,Ltd
D4CFF9 (base 16) Shenzhen SEI Robotics Co.,Ltd
501,Productivity Building A, #5 Hi-Tech Middle 2nd Road

Shenzhen Guangdong 518057
CN

48-82-44 (hex) Life Fitness / Div. of Brunswick
488244 (base 16) Life Fitness / Div. of Brunswick
10601 W. Belmont Ave
Franklin Park IL 60131
US

C8-31-68 (hex) eZEX corporation
C83168 (base 16) eZEX corporation
Rm 508,
Ssangyong IT Twin-Tower II, 442-5
Seongnam-si Gyeonggi-do 462-120
KR

0C-20-26 (hex) noax Technologies AG
0C2026 (base 16) noax Technologies AG
Am Forst 6
Ebersberg 85560
DE

28-65-6B (hex) Keystone Microtech Corporation
28656B (base 16) Keystone Microtech Corporation
9F., No.255, Dong Sec. 1,
Jhubei City, Hsinchu County 302
TW

CC-9F-35 (hex) Transbit Sp. z o.o.
CC9F35 (base 16) Transbit Sp. z o.o.
Przyczolkowa 109A
Warsaw 02-968
PL

F0-3F-F8 (hex) R L Drake
F03FF8 (base 16) R L Drake
1 Jake Brown Road
Old Bridge NJ 08857
US

B0-C5-54 (hex) D-Link International
B0C554 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

20-25-64 (hex) PEGATRON CORPORATION
202564 (base 16) PEGATRON CORPORATION

5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

C8-D5-90 (hex) FLIGHT DATA
SYSTEMS
C8D590 (base 16) FLIGHT DATA SYSTEMS
31 MCGREGORS DRIVE
KEILOR PARK VICTORIA 3042
AU

7C-FF-62 (hex) Huizhou Super Electron Technology Co.,Ltd.
7CFF62 (base 16) Huizhou Super Electron Technology Co.,Ltd.
10F,Financial Tower,No.23,Xiapu Road
Huizhou City Guangdong Province 516001
CN

28-3B-96 (hex) Cool Control LTD
283B96 (base 16) Cool Control LTD
Mivtahim 2
Petah Tikva Israel 4951774
IL

64-8D-9E (hex) IVT Electronic Co.,Ltd
648D9E (base 16) IVT Electronic Co.,Ltd
F building Dongxing Insdustrial Area
Dongguan City Guangdong provice 523457
CN

C0-9D-26 (hex) Topicon HK Lmd.
C09D26 (base 16) Topicon HK Lmd.
302, 3F, Lee Loong Building
Central Hong Kong 0000
US

44-29-38 (hex) NietZsche enterprise Co.Ltd.
442938 (base 16) NietZsche enterprise Co.Ltd.
4F. No.560 Sec2 Chung Shan Rd.
New Taipei City Taiwan R.O.C Taipei (/) 220
TW

EC-F7-2B (hex) HD
DIGITAL TECH CO., LTD.
ECF72B (base 16) HD DIGITAL TECH CO., LTD.
Room 602, Baoyuan road, Banan District
Shenzhen Guangdong 518102
US

4C-F4-5B (hex) Blue Clover Devices
4CF45B (base 16) Blue Clover Devices
1001 Bayhill Dr
San Bruno CA 94066
US

B0-69-71 (hex) DEI Sales, Inc.
B06971 (base 16) DEI Sales, Inc.
1 Viper Way
Vista CA 92081
US

F8-F0-05 (hex) Newport Media Inc.
F8F005 (base 16) Newport Media Inc.
1 Spectrum Pointe Drive Suite 225
Lake Forest CA 92630
US

1C-FC-BB (hex) Realfiction ApS
1CFCBB (base 16) Realfiction ApS
Oester Alle 42, 5
Copenhagen OE 2100
DK

5C-25-4C (hex) Avire Global Pte Ltd
5C254C (base 16) Avire Global Pte Ltd
8 Admiralty Street
Singapore 757438
SG

D4-2F-23 (hex) Akenori PTE Ltd
D42F23 (base 16) Akenori PTE Ltd
176 Joo Chiat Road, #02-02
Singapore 427447
SG

9C-3E-AA (hex) EnvyLogic Co.,Ltd.
9C3EAA
(base 16) EnvyLogic Co.,Ltd.
#605,Gwanyang Doosan Ven Digm B/D
Anyang-si Gyeonggi-do 431-810
KR

14-C0-89 (hex) DUNE HD LTD
14C089 (base 16) DUNE HD LTD
2F., No.297, Sec. 2, Tiding Blvd.,
Taipei 11493
TW

F4-B6-E5 (hex) TerraSem Co.,Ltd
F4B6E5 (base 16) TerraSem Co.,Ltd
9,Gwahaksaneop 5-ro
Cheongwon-Gu ChungBuk 363-885
KR

A8-81-F1 (hex) BMEYE B.V.
A881F1 (base 16) BMEYE B.V.
Hoogoorddreef 60
Amsterdam 1101BE
NL

D0-69-D0 (hex) Verto Medical Solutions, LLC
D069D0 (base 16) Verto Medical Solutions, LLC
900 Spruce St., Suite 550
St. Louis Missouri 63012
US

C4-E9-84 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
C4E984 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

48-EE-86 (hex) UTStarcom (China) Co.,Ltd
48EE86 (base 16) UTStarcom (China)
Co.,Ltd
25 Floor,A Block,1#Building,TianZuo International Center,
Haidian District BeiJing 100081
CN

CC-95-D7 (hex) Vizio, Inc
CC95D7 (base 16) Vizio, Inc
39 Tesla
Irvine CA 92618
US

FC-09-F6 (hex) GUANGDONG TONZE ELECTRIC CO.,LTD
FC09F6 (base 16) GUANGDONG TONZE ELECTRIC CO.,LTD
No.12-12 Block,Jinyuan Industrical City,Chaoshan Road,Shantou,Guangdong,china
Shantou Guangdong 515021
CN

BC-F6-1C (hex) Geomodeling Wuxi Technology Co. Ltd.
BCF61C (base 16) Geomodeling Wuxi Technology Co. Ltd.
Room1708, 17/F, North Star Times Tower, No.8 BeiChen East Road
Beijing 100101

CN

08-6D-F2 (hex) Shenzhen MIMOWAVE Technology Co.,Ltd
086DF2 (base 16) Shenzhen MIMOWAVE Technology Co.,Ltd

Shenzhen Guangdong 518172
CN

98-C0-EB (hex) Global Regency Ltd
98C0EB (base 16) Global Regency Ltd
20F, Phase A, Wenjin Plaza,
Shen Zhen Guangdong 518000
CN

D0-9C-30 (hex) Foster Electric
Company, Limited
D09C30 (base 16) Foster Electric Company, Limited
1-1-109, Tsutsujigaoka
Akishima Tokyo 196-8550
JP

94-9F-3F (hex) Optek Digital Technology company limited
949F3F (base 16) Optek Digital Technology company limited
Room508 Build A, Shennan Garden, Shenzhen Science and Industry Park, Nanshan
Shenzhen GuangDong 518057
CN

E8-17-FC (hex) Fujitsu Cloud Technologies Limited
E817FC (base 16) Fujitsu Cloud Technologies Limited
JR Kawasaki Tower, 1-5, Omiyacho, Saiwai-ku
Kawasaki-shi Kanagawa-ken, 212-0014
JP

78-FE-E2 (hex) Shanghai Diveo Technology Co., Ltd
78FEE2 (base 16) Shanghai Diveo Technology Co., Ltd
No.8,Lane 777,LongWu Rd
Shanghai 200232
CN

44-48-91 (hex) HDMI Licensing, LLC
444891 (base 16) HDMI Licensing, LLC
1140 East Arques, Suite 100
Sunnyvale CA 94085
US

FC-92-3B (hex) Nokia Corporation
FC923B (base 16) Nokia Corporation
Joensuunkatu

7
Salo N.A. 24101
FI

E0-3F-49 (hex) ASUSTek COMPUTER INC.
E03F49 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

88-A7-3C (hex) Ragentek Technology Group
88A73C (base 16) Ragentek Technology Group
D10/D11, No.3188, Xiupu Road
Shanghai 201315
CN

88-D9-62 (hex) Canopus Systems US LLC
88D962 (base 16) Canopus Systems US LLC
Nasa Ames Research Park
Moffett Field CALIFORNIA 94035
US

68-78-48 (hex) WESTUNITIS CO., LTD.
687848 (base 16) WESTUNITIS CO., LTD.
29F Grand Front Osaka Tower-A, 4-20, Ofukacho,
Osaka Kita-ku 530-0011
JP

48-D0-CF (hex) Universal Electronics, Inc.
48D0CF (base 16) Universal Electronics, Inc.
201 E. Sandpointe Ave
Santa Ana CA 92707
US

DC-C7-93 (hex) Nokia Corporation
DCC793 (base 16) Nokia Corporation
Joensuunkatu 7
Salo N.A. 24101
FI

1C-EE-E8 (hex) Ilshin Elecom
1CEEE8
(base 16) Ilshin Elecom
2973, Hagun-ri, Yangchon-eup
Gimpo-si Gyeonggi-do 415-843
KR

60-21-03 (hex) I4VINE, INC

602103 (base 16) I4VINE, INC
TLI Building 6th floor, 195
Seongnam-si Gyeonggi-do 462-100
KR

FC-07-A0 (hex) LRE Medical GmbH
FC07A0 (base 16) LRE Medical GmbH
Hofer Strasse 5
Noerdlingen Bavaria 86720
DE

FC-13-49 (hex) Global Apps Corp.
FC1349 (base 16) Global Apps Corp.
12F., No 225, Sec. 5 Nanjing E. Rd
Taipei 105
TW

84-84-33 (hex) Paradox Engineering SA
848433 (base 16) Paradox Engineering SA
Via Passeggiata, 7
Novazzano Ticino 6883
CH

44-C3-06 (hex) SIFROM Inc.
44C306 (base 16) SIFROM Inc.
1201 N. Orange St., Ste 700 #7112
Wilmington DE 19801-1186
US

60-FF-DD (hex) C.E. ELECTRONICS, INC
60FFDD (base 16) C.E. ELECTRONICS, INC
2107 INDUSTRIAL DR
BRYAN OHIO 43506
US

24-05-0F (hex) MTN Electronic Co. Ltd
24050F (base
16) MTN Electronic Co. Ltd
MTN Industrial Park,No 3, Fuhua Road,
Shenzhen Guangdong Province 518117
CN

AC-2D-A3 (hex) TXTR GmbH
AC2DA3 (base 16) TXTR GmbH
Rosenthaler Str. 13
Berlin 10119
DE

88-9C-A6 (hex) BTB Korea INC
889CA6 (base 16) BTB Korea INC
#1001, Suntech City 1st
Sungnam Kyunggido 462-725
KR

90-83-7A (hex) General Electric Water & Process Technologies
90837A (base 16) General Electric Water & Process Technologies
6060 Spine Road
Boulder Colorado 80301-3687
US

A4-3A-69 (hex) Vers Inc
A43A69 (base 16) Vers Inc
PO Box 5265
Wayland MA 01778
US

B0-D7-C5 (hex) Logipix Ltd
B0D7C5 (base 16) Logipix Ltd
Kesmark utca 11-13
Budapest - 1158
HU

90-31-CD (hex) Onyx Healthcare Inc.
9031CD (base 16) Onyx Healthcare Inc.
2F ,No135, Lane235,
New Taipei City 231
TW

E4-81-84 (hex) Nokia
E48184 (base 16) Nokia
600 March Road
Kanata
Ontario K2K 2E6
CA

2C-5A-05 (hex) Nokia Corporation
2C5A05 (base 16) Nokia Corporation
Joensuunkatu 7
Salo N.A. 24101
FI

D4-81-CA (hex) iDevices, LLC
D481CA (base 16) iDevices, LLC
136 Simsbury, Rd
Avon CT 06001
US

D8-58-D7 (hex) CZ.NIC, z.s.p.o.
D858D7 (base 16) CZ.NIC, z.s.p.o.
Americka 23
Prague 12000
CZ

4C-D9-C4 (hex) Magneti Marelli Automotive Electronics (Guangzhou) Co. Ltd
4CD9C4 (base 16) Magneti Marelli Automotive Electronics (Guangzhou) Co. Ltd
Building B10, No.8 Jinghu Road
Guangzhou Guangdong 510800
CN

0C-54-A5 (hex) PEGATRON CORPORATION
0C54A5 (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

8C-4D-B9 (hex) Unmonday Ltd
8C4DB9 (base 16) Unmonday Ltd
Laivakatu 3
Helsinki Uusimaa 00150
FI

80-BA-E6 (hex) Neets
80BAE6 (base 16) Neets
Langballe 4
Horsens Jylland
8700
DK

88-89-14 (hex) All Components Incorporated
888914 (base 16) All Components Incorporated
828 New Meister Lane
Pflugerville TX 78660
US

F0-32-1A (hex) Mita-Teknik A/S
F0321A (base 16) Mita-Teknik A/S
Aktieselskabet af 12.12.2006
Roedkaersbro 8840
DK

9C-44-A6 (hex) SwiftTest, Inc.
9C44A6 (base 16) SwiftTest, Inc.
3255 Scott Blvd.
Santa Clara California 95054

US

B0-24-F3 (hex) Progeny Systems
B024F3 (base 16) Progeny Systems
9500 Innovation Drive
Manassas VA 20110
US

F8-A2-B4 (hex) RHEWA-WAAGENFABRIK August Freudewald GmbH &Co. KG
F8A2B4 (base 16) RHEWA-WAAGENFABRIK August Freudewald GmbH &Co. KG
Feldstr. 17
Mettmann 40822
DE

78-CA-5E (hex) ELNO
78CA5E (base 16) ELNO
43 rue Michel Carré
Argenteuil - F95102
US

A0-3B-1B (hex) Inspire Tech
A03B1B (base 16) Inspire Tech
No.588-10,Zhongzheng Rd.,Xinzhuang Dist
New Taipei
Taiwan 24255
TW

7C-CD-3C (hex) Guangzhou Juzing Technology Co., Ltd
7CCD3C (base 16) Guangzhou Juzing Technology Co., Ltd
Building C Rm 1906-1909
Guangzhou Guangdong 510630
US

10-B2-6B (hex) base Co.,Ltd.
10B26B (base 16) base Co.,Ltd.
F1 92 building taoyuancun longzhu road
Shenzhen Guangdong 518000
CN

4C-F0-2E (hex) Vifa Denmark A/S
4CF02E (base 16) Vifa Denmark A/S
Mariendalsvej 2A
Viborg DK-8800
US

B4-82-7B (hex) AKG Acoustics GmbH
B4827B (base 16) AKG Acoustics GmbH
Lemboeckgasse 21-25

Vienna 1230
AT

DC-5E-36 (hex) Paterson Technology
DC5E36 (base 16) Paterson Technology
23490 SE 51st Pl
Issaquah WA 98029
US

50-E0-C7 (hex) TurControlSystme AG
50E0C7 (base 16) TurControlSystme AG
Geschwister-Scholl-Strasse 7
Genthin Sachsen-Anhalt 39307
DE

DC-AD-9E (hex) GreenPriz
DCAD9E (base 16) GreenPriz
549, boulevard Pierre Sauvaigo
La
Colle sur Loup 06480
FR

B8-DF-6B (hex) SpotCam Co., Ltd.
B8DF6B (base 16) SpotCam Co., Ltd.
12F.-1, No.125, Jianguo Rd.
New Taipei City 239
TW

9C-88-88 (hex) Simac Techniek NV
9C8888 (base 16) Simac Techniek NV
De Run 1101
Veldhoven NB 5503LB
NL

04-1A-04 (hex) WaveIP
041A04 (base 16) WaveIP
1 Sky street
Misgav 20179
IL

34-A5-E1 (hex) Sensorist ApS
34A5E1 (base 16) Sensorist ApS
Nyhavn 16
Copenhagen K Sjaelland 1051
DK

18-C8-E7 (hex) Shenzhen Hualistone Technology Co.,Ltd
18C8E7 (base 16) Shenzhen Hualistone Technology Co.,Ltd

1708RM,Huafeng HQ Economic Building,
Shenzhen Guangdong 518102
CN

7C-6A-B3 (hex) IBC TECHNOLOGIES INC.
7C6AB3 (base 16) IBC TECHNOLOGIES INC.
1445 CHARLES STREET
Vancouver British Columbia V5L2S7
CA

84-56-9C (hex) Coho Data, Inc.,
84569C (base 16) Coho Data, Inc.,
1230 Midas Way, Suite 110
Sunnyvale
CA 94085
US

78-AE-0C (hex) Far South Networks
78AE0C (base 16) Far South Networks
49 Bell Crescent
Westlake Western Cape 7945
ZA

84-A7-83 (hex) Alcatel Lucent
84A783 (base 16) Alcatel Lucent
Via Energy Park, 14
Vimercate MB 20871
IT

E0-56-F4 (hex) AxesNetwork Solutions inc.
E056F4 (base 16) AxesNetwork Solutions inc.
410 pepin
Sherbrooke qc j1l2y8
CA

08-CA-45 (hex) Toyou Feiji Electronics Co., Ltd.
08CA45 (base 16) Toyou Feiji Electronics Co., Ltd.
No.2 Building No.9 Yard, Dijin Road,
Beijing 100095
CN

3C-CA-87 (hex) Iders Incorporated
3CCA87 (base 16) Iders Incorporated
27047 Oakwood Rd
Oakbank Manitoba R0E 1J2
CA

18-1B-EB (hex) Actiontec Electronics, Inc

181BEB (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

98-43-DA (hex) INTERTECH
9843DA (base 16) INTERTECH
3F. 14-9 Sarihyun-Ro. Ilsandong-Gu
Goyang-Si
Gyeonggi-Do 410-821
KR

78-D9-9F (hex) NuCom HK Ltd.
78D99F (base 16) NuCom HK Ltd.
Unit B 11/F, Eton Bldg, 288 Des Voeux Rd. Central
Hong Kong Hong Kong 00852
CN

14-2B-D2 (hex) Armtel Ltd.
142BD2 (base 16) Armtel Ltd.
33A Smolenskaya str.
St. Petersburg 196084
RU

9C-A1-0A (hex) SCLE SFE
9CA10A (base 16) SCLE SFE
Parc des Aygalades – Bat 10
MARSEILLE PACA 13014
FR

88-78-9C (hex) Game Technologies SA
88789C (base 16) Game Technologies SA
Plac W. Andersa 3
Poznan 61894
PL

68-76-4F (hex) Sony Corporation
68764F (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

38-DB-BB (hex) Sunbow Telecom Co., Ltd.
38DBBB (base 16) Sunbow Telecom Co., Ltd.
3F, 501-21, Chung Cheng Rd., Hsin Tien Dist.
New Taipei City 23148
TW

44-8A-5B (hex) Micro-Star INT'L CO., LTD.
448A5B (base 16) Micro-Star INT'L CO., LTD.
No69, LIde
St.
Taipei 235
TW

0C-CB-8D (hex) ASCO Numatics GmbH
0CCB8D (base 16) ASCO Numatics GmbH
Otto-Hahn-Str. 7-11
Oelbronn-Duerrn 75248
DE

90-79-90 (hex) Benchmark Electronics Romania SRL
907990 (base 16) Benchmark Electronics Romania SRL
Aeroportului no 6 Ghimbav
Brasov 507075
US

7C-BD-06 (hex) AE REFUsol
7CBD06 (base 16) AE REFUsol
Uracher Str. 91
Metzingen Baden-Wurttemberg 72555
DE

94-BA-56 (hex) Shenzhen Coship Electronics Co., Ltd.
94BA56 (base 16) Shenzhen Coship Electronics Co., Ltd.
Rainbow Bldg., North, Hi-Tech Industrial Park
Shenzhen Guangdong 518057
CN

74-0E-DB (hex) Optowiz Co., Ltd
740EDB (base 16) Optowiz Co., Ltd
D-901 Bundang Techno Park
Seongnam-si Kyeonggi-do 463-760
KR

90-8C-44 (hex) H.K ZONGMU TECHNOLOGY CO., LTD.
908C44 (base 16) H.K ZONGMU TECHNOLOGY CO., LTD.
ROOM 604, BUILDING B, 977 SHANGFENG RD
SHANGHAI 201201
CN

6C-83-66
(hex) Nanjing SAC Power Grid Automation Co., Ltd.
6C8366 (base 16) Nanjing SAC Power Grid Automation Co., Ltd.
No.11 Phoenix Road
Nanjing Jiangsu Provience 211100

CN

6C-4B-7F (hex) Vossloh-Schwabe Deutschland GmbH
6C4B7F (base 16) Vossloh-Schwabe Deutschland GmbH
Wasenstrasse 25
Urbach 73660
DE

68-8A-B5 (hex) EDP Servicos
688AB5 (base 16) EDP Servicos
Rua Castilho, número 165, 5º andar
Lisboa 1070-050
PT

24-93-CA (hex) Voxtronic Austria
2493CA (base 16) Voxtronic Austria
Modecenterstrasse 17 Objekt 1
Vienna 1110
AT

DC-CE-BC (hex) Shenzhen JSR Technology Co.,Ltd.
DCCEBC (base 16) Shenzhen JSR Technology Co.,Ltd.
2-3F,E building,Yu Jianfeng science and industry park
Shenzhen City Guangdong 518109
CN

F8-3D-4E (hex) Softlink Automation System Co., Ltd
F83D4E (base 16) Softlink Automation System Co., Ltd
No.12, Hi-tech South 7th Rd.,
Shenzhen GuangDong
518057
CN

80-79-AE (hex) ShanDong Tecsunrise Co.,Ltd
8079AE (base 16) ShanDong Tecsunrise Co.,Ltd
B316,F-2,QiLu Soft Park,
JiNan ShanDong 250101
CN

6C-90-B1 (hex) SanLogic Inc
6C90B1 (base 16) SanLogic Inc
2350 Mission College Blvd
Santa Clara CA 95054
US

E0-FA-EC (hex) Platan sp. z o.o. sp. k.
E0FAEC (base 16) Platan sp. z o.o. sp. k.
ul.Platanowa 2

Sopot pomorskie 81-855
PL

44-67-55 (hex) Orbit Irrigation
446755 (base 16) Orbit Irrigation
P.O. Box 328
Bountiful Utah 84011
US

7C-E5-6B (hex) ESEN Optoelectronics Technology Co.,Ltd.
7CE56B (base 16) ESEN Optoelectronics Technology Co.,Ltd.
Houcheng Yuanjiaqiao ,Jingang Town
Zhangjiagang Jiangsu 215631
CN

D4-4C-9C (hex) Shenzhen YOOBAO Technology Co.Ltd
D44C9C (base 16) Shenzhen YOOBAO Technology Co.Ltd
F3,A5,Hua Tong Yuan Logistics Center,Minzhi Street,Longhua Town,Bao'an District,Shenzhen City,China
Shenzhen
Guangdong 518000
CN

58-46-8F (hex) Koncar Electronics and Informatics
58468F (base 16) Koncar Electronics and Informatics
Fallerovo setaliste 22
Zagreb Drvinje 10000
HR

98-5D-46 (hex) PeopleNet Communication
985D46 (base 16) PeopleNet Communication
4400 Baker Road
Minnetonka Minnesota 55343
US

F8-9F-B8 (hex) YAZAKI Energy System Corporation
F89FB8 (base 16) YAZAKI Energy System Corporation
1-7-1 YOKOI
Shimada -shi,Shizuoka 427-8555
JP

54-05-36 (hex) Vivago Oy
540536 (base 16) Vivago Oy
Itsehallintokuja 6
Espoo FI-02600
FI

54-BE-F7 (hex) PEGATRON CORPORATION
54BEF7 (base 16) PEGATRON CORPORATION

5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

A4-89-5B (hex) ARK INFOSOLUTIONS PVT LTD
A4895B (base 16) ARK INFOSOLUTIONS PVT LTD
4428, GANESH BAZAR CLOTH MARKET
DELHI 110006
IN

D0-9D-0A (hex) LINKCOM
D09D0A
(base 16) LINKCOM
11 Rue du Soleil Levant
Clamart 92140
FR

EC-21-9F (hex) VidaBox LLC
EC219F (base 16) VidaBox LLC
240 Madison Ave
Garden City Park NEW YORK 11040
US

20-CE-C4 (hex) Peraso Technologies
20CEC4 (base 16) Peraso Technologies
144 Front St. West, Suite 685
Toronto ON M5J 2L7
CA

CC-47-03 (hex) Intercon Systems Co., Ltd.
CC4703 (base 16) Intercon Systems Co., Ltd.
#915 Hanlim Human Tower,1-40 Geumjeong-dong
Gunpo-si Gyeonggi-do 435-824
KR

A8-CC-C5 (hex) Saab AB (publ)
A8CCC5 (base 16) Saab AB (publ)
Nobymalmsvagen
Linkoping SE-581 82
SE

98-8E-4A (hex) NOXUS(BEIJING) TECHNOLOGY CO.,LTD
988E4A (base 16) NOXUS(BEIJING) TECHNOLOGY CO.,LTD
02-1205,11/F, No.2 Building,No.8,Worker’s Stadium North Road Chaoyang District
Beijing 100027
CN

F8-54-AF (hex) ECI Telecom Ltd.

F854AF (base 16) ECI Telecom Ltd.
30 Hasivim St.
Petah Tikva 49133
IL

F0-F5-AE
(hex) Adaptrum Inc.
F0F5AE (base 16) Adaptrum Inc.
25 E Trimble Rd.
San Jose California 95131
US

FC-3F-AB (hex) Henan Lanxin Technology Co., Ltd
FC3FAB (base 16) Henan Lanxin Technology Co., Ltd
4/F-B, Building No.1, 863 Central China Software Park, No.6 Cuizhu Street, High & New Technology Industries Development Zone
Zhengzhou Henan 450001
CN

EC-2A-F0 (hex) Ypsomed AG
EC2AF0 (base 16) Ypsomed AG
Brunnmattstrasse 6
Burgdorf BE 3400
CH

50-B8-88 (hex) wi2be Tecnologia S/A
50B888 (base 16) wi2be Tecnologia S/A
Rua Manoel Valdomiro de Macedo, 2285
Curitiba Parana 81170-150
BR

28-A2-41 (hex) exlar corp
28A241 (base 16) exlar corp
18400 west 77th street
chanhassen mn 55317
US

F4-20-12 (hex) Cuciniale GmbH
F42012 (base 16) Cuciniale GmbH
Heuriedweg 65
Lindau 88131
DE

98-B0-39 (hex) Nokia
98B039 (base 16) Nokia
600 March
Road
Kanata Ontario K2K 2E6

CA

B8-30-A8 (hex) Road-Track Telematics Development
B830A8 (base 16) Road-Track Telematics Development
15th Keren Hayesod St.
Tirat Hacarmel Israel 15223
IL

50-98-71 (hex) Inventum Technologies Private Limited
509871 (base 16) Inventum Technologies Private Limited
C-70, Phase 2 Extension
NOIDA Uttar Pradesh 201305
IN

30-78-6B (hex) TIANJIN Golden Pentagon Electronics Co., Ltd.
30786B (base 16) TIANJIN Golden Pentagon Electronics Co., Ltd.
No. 196 Rixin Road, Binhai Science Park,
Tianjin 300457
CN

20-DF-3F (hex) Nanjing SAC Power Grid Automation Co., Ltd.
20DF3F (base 16) Nanjing SAC Power Grid Automation Co., Ltd.
No.11 Phoenix Road
Nanjing Jiangsu 211106
CN

4C-D6-37 (hex) Qsono Electronics Co., Ltd
4CD637 (base 16) Qsono Electronics Co., Ltd
2nd Floor,Dingxin Industry park,jiayuan Road,East Lake Development Zone
Wuhan Hubei 430074
CN

94-36-E0
(hex) Sichuan Bihong Broadcast & Television New Technologies Co.,Ltd
9436E0 (base 16) Sichuan Bihong Broadcast & Television New Technologies Co.,Ltd
Guanghan City, Sichuan province Zhongshan road south three period of 36
Deyang Guanghan Sichuan Province 618300
CN

44-2A-FF (hex) E3 Technology, Inc.
442AFF (base 16) E3 Technology, Inc.
Martell-house 2F, 2-28-3 Sekimachi-Kita,
Nerima-ku Tokyo 177-0051
JP

7C-83-06 (hex) Glen Dimplex Nordic as
7C8306 (base 16) Glen Dimplex Nordic as
Postboks 16

Stjoerdal N-T 7501
NO

14-0D-4F (hex) Flextronics International
140D4F (base 16) Flextronics International
Stretton Green Distribution Centre Langford Way
Warrington Cheshire WA4 4TQ
GB

08-8E-4F (hex) SF Software Solutions
088E4F (base 16) SF Software Solutions
Buchenweg 32
Großbettlingen Baden-Wurttemberg 72663
US

AC-CA-8E (hex) ODA Technologies
ACCA8E (base 16) ODA
Technologies
607-A Woorim Lions Valley, #425
Incheon KSXX0009
KR

DC-17-92 (hex) Captivate Network
DC1792 (base 16) Captivate Network
2 Executive Drive Suite 301
Chelmsford Massachusetts 01824
US

54-22-F8 (hex) zte corporation
5422F8 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

48-6E-73 (hex) Pica8, Inc.
486E73 (base 16) Pica8, Inc.
1032 Elwell Court, Suite 105
Palo Alto CA 94303
US

64-05-BE (hex) NEW LIGHT LED
6405BE (base 16) NEW LIGHT LED
No.50, Siyuan Rd
New Taipei 24251
TW

28-28-5D (hex) Zyxel Communications Corporation
28285D (base 16) Zyxel Communications Corporation

No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

64-6E-EA (hex) Iskratel d.o.o.
646EEA (base 16) Iskratel d.o.o.
Ljubljanska cesta 24a
Kranj 4000
SI

D0-73-7F (hex) Mini-Circuits
D0737F
(base 16) Mini-Circuits
50 Yosef Levi Street
Kiryat Bialik Industrial Zone 27000
US

CC-7B-35 (hex) zte corporation
CC7B35 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

04-D4-37 (hex) ZNV
04D437 (base 16) ZNV
4/F, W1-A, Bldg, Gaoxin S, 1st Ave., Hi-tech Park, Nanshan District, Shenzhen, P.R.C
Shenzhen Guangdong 518057
US

CC-F4-07 (hex) EUKREA ELECTROMATIQUE SARL
CCF407 (base 16) EUKREA ELECTROMATIQUE SARL
74 AVENUE JEAN JAURES
PESSAC GIRONDE 33600
FR

04-8C-03 (hex) ThinPAD Technology (Shenzhen)CO.,LTD
048C03 (base 16) ThinPAD Technology (Shenzhen)CO.,LTD
Room 2305, Xingji Building, Xinsha Road
Shenzhen Guangdong 518104
CN

88-46-2A (hex) Telechips Inc.
88462A (base 16) Telechips Inc.
Luther Building,7-20, Sincheon-dong,Songpa-gu,
Seoul Seoul 138-240
KR

C8-02-58 (hex) ITW GSE ApS

C80258
(base 16) ITW GSE ApS
Smedebakken 31-33
Odense N 5270
DK

E8-BB-3D (hex) Sino Prime-Tech Limited
E8BB3D (base 16) Sino Prime-Tech Limited
Room 418, Building 1, Hua Mei Ju (D),
Shenzhen Guangdong 518101
CN

34-A6-8C (hex) Shine Profit Development Limited
34A68C (base 16) Shine Profit Development Limited
Unit 1401B Telecom Tower
Kwun Tong Kowloon 000001
HK

94-9F-B4 (hex) ChengDu JiaFaAnTai Technology Co.,Ltd
949FB4 (base 16) ChengDu JiaFaAnTai Technology Co.,Ltd
8th Floor, Building No.2, Zone A of Wisdom Valley
Chengdu Sichuan 610000
CN

40-68-26 (hex) Thales UK Limited
406826 (base 16) Thales UK Limited
1 Linthouse Road
Glasgow Scotland G51 4BZ
GB

F8-2B-C8 (hex) Jiangsu Switter Co., Ltd
F82BC8 (base 16) Jiangsu Switter Co., Ltd
Room 512, Buliding 8, 118 Nanyuanbei Road
Suzhou City Jiangsu Province 215006
CN

60-C3-97 (hex) 2Wire Inc
60C397
(base 16) 2Wire Inc
1764 Automation Parkway
San Jose CA 95131
US

FC-60-18 (hex) Zhejiang Kangtai Electric Co., Ltd.
FC6018 (base 16) Zhejiang Kangtai Electric Co., Ltd.
No.5, Kangtai Rd
Yueqing Zhejiang 325605
CN

0C-F0-19 (hex) Malgn Technology Co., Ltd.
0CF019 (base 16) Malgn Technology Co., Ltd.
Star Tower #305, 223-25
Seongnam-Si Kyounggi-Do 462-738
KR

A4-FC-CE (hex) Security Expert Ltd.
A4FCCE (base 16) Security Expert Ltd.
75, Ekaterininskaya Street, of. 105
Perm Perm region 614000
RU

E0-7F-88 (hex) EVIDENCE Network SIA
E07F88 (base 16) EVIDENCE Network SIA
Zilupes 4A
Riga LV-1019
LV

1C-7C-C7 (hex) Coriant GmbH
1C7CC7 (base 16) Coriant GmbH
St.-Martin-Str. 76
Munich Germany 81541
DE

34-1B-22 (hex) Grandbeing Technology Co., Ltd
341B22 (base 16) Grandbeing Technology Co., Ltd
B-301,Science and Technology Building Phase II
Shenzhen Guangdong
518000
CN

58-E0-2C (hex) Micro Technic A/S
58E02C (base 16) Micro Technic A/S
Smedevaenget 5
Aarup 5560
DK

78-B3-CE (hex) Elo touch solutions
78B3CE (base 16) Elo touch solutions
1033 McCarthy Boulevard
Milpitas CA 95035
US

34-1A-4C (hex) SHENZHEN WEIBU ELECTRONICS CO.,LTD.
341A4C (base 16) SHENZHEN WEIBU ELECTRONICS CO.,LTD.
3/F, Block 132,Jindi Industrial Zone
Shenzhen Guangdong 518048

CN

88-14-2B (hex) Protonic Holland
88142B (base 16) Protonic Holland
Factorij 36
Zwaag NH Netherlands 1689 AL
NL

F8-51-6D (hex) Denwa Technology Corp.
F8516D (base 16) Denwa Technology Corp.
1931 NW 150 TH AVE
Penbroke Pines Florida 33028
US

44-4A-65 (hex) Silverflare Ltd.
444A65 (base 16) Silverflare Ltd.
2 Bakers Yard
Uxbridge Greater London UB8 1JZ
GB

74-4B-E9 (hex) EXPLORER HYPERTECH CO.,LTD
744BE9 (base 16) EXPLORER HYPERTECH CO.,LTD
7F.-9,NO.112,Xinmin
St
New Taipei City 235
TW

04-88-E2 (hex) Beats Electronics LLC
0488E2 (base 16) Beats Electronics LLC
1601 Cloverfield Blvd.
Santa Monica California 90404
US

40-56-0C (hex) In Home Displays Ltd
40560C (base 16) In Home Displays Ltd
Waterside House
Edinburgh Lothian EH6 6QU
GB

A4-7A-CF (hex) VIBICOM COMMUNICATIONS INC.
A47ACF (base 16) VIBICOM COMMUNICATIONS INC.
900 CORPORATE DRIVE
MAHWAH NEW JERSEY 074030
US

BC-26-1D (hex) HONG KONG TECON TECHNOLOGY
BC261D (base 16) HONG KONG TECON TECHNOLOGY
ROOM 2802,BLOCK A,SHEN FANG OLAZA

Shenzhen Guangdong 518000
CN

20-4C-6D (hex) Hugo Brennenstuhl Gmbh & Co. KG.
204C6D (base 16) Hugo Brennenstuhl Gmbh & Co. KG.
Seestr. 1-3
Tuebingen Baden-Wuerttemberg 72074
DE

E8-CE-06 (hex) SkyHawke Technologies, LLC.
E8CE06 (base 16) SkyHawke Technologies, LLC.
274 Commerce Park Drive
Ridgeland MS 39157
US

C8-F3-86
(hex) Shenzhen Xiaoniao Technology Co.,Ltd
C8F386 (base 16) Shenzhen Xiaoniao Technology Co.,Ltd
Floor 13 C-D Yunsong Buliding
Futian District, Shenzhen Guangdong 518040
CN

2C-72-C3 (hex) Soundmatters
2C72C3 (base 16) Soundmatters
8060 Double R Blvd Suite 100
Reno NV 89511
US

2C-69-BA (hex) RF Controls, LLC
2C69BA (base 16) RF Controls, LLC
622 Bates Street
Saint Louis Missouri 63111
US

D4-BF-7F (hex) UPVEL
D4BF7F (base 16) UPVEL
13139 Ramona Blvd. #F
Irwindale CA 91706
US

9C-97-26 (hex) Technicolor Delivery Technologies Belgium NV
9C9726 (base 16) Technicolor Delivery Technologies Belgium NV
Prins Boudewijnlaan 47
Edegem - Belgium B-2650
BE

7C-05-07 (hex) PEGATRON CORPORATION
7C0507 (base 16) PEGATRON CORPORATION

5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

88-09-05 (hex) MTMCommunications
880905 (base
16) MTMCommunications
2-3-10 Honmachi
Ichinomiya-shi Aichi-ken 491-0853
US

C8-DD-C9 (hex) Lenovo Mobile Communication Technology Ltd.
C8DDC9 (base 16) Lenovo Mobile Communication Technology Ltd.
No.999,Qishan North 2nd Road,
Xiamen Fujian 361006
US

6C-86-86 (hex) Technonia
6C8686 (base 16) Technonia
#1101, Hanshin IT Tower 235
Seoul 152-768
KR

D4-AC-4E (hex) BODi rS, LLC
D4AC4E (base 16) BODi rS, LLC
7622 Rickenbacker Drive
Gaithersburg MD 20879
US

84-2F-75 (hex) Innokas Group
842F75 (base 16) Innokas Group
Tarjusojantie 12
Kempele Oulu 90440
FI

CC-3C-3F (hex) SA.S.S. Datentechnik AG
CC3C3F (base 16) SA.S.S. Datentechnik AG
Talhofstr. 32
Gilching Bayern 82205
DE

40-C4-D6 (hex) ChongQing Camyu Technology Development Co.,Ltd.
40C4D6 (base 16) ChongQing Camyu Technology Development Co.,Ltd.
4th Floor,Tower of Venus Technology Building ,NO 60 Xing
Guang Road
Chong Qing 401121
CN

A8-29-4C (hex) Precision Optical Transceivers, Inc.
A8294C (base 16) Precision Optical Transceivers, Inc.
2328 Innovation Way
Rochester NY 14624
US

30-D4-6A (hex) Autosales Incorporated
30D46A (base 16) Autosales Incorporated
1200 Souteat Avenue
Tallmadge Ohio 44278
US

70-C6-AC (hex) Bosch Automotive Aftermarket
70C6AC (base 16) Bosch Automotive Aftermarket
Franz Oechsle Str. 4
Plochingen D-73201
DE

A0-86-1D (hex) Chengdu Fuhuaxin Technology co.,Ltd
A0861D (base 16) Chengdu Fuhuaxin Technology co.,Ltd
Room 1608,Building G1,No.1800 of Yizhou Ave
Chengdu Sichuan 610041
CN

50-8D-6F (hex) CHAHOO Limited
508D6F (base 16) CHAHOO Limited
B-4thFloor, 631
Sungnam Gyeonggi 463-400
KR

30-89-99 (hex) Guangdong East Power Co.,
308999 (base 16) Guangdong East Power Co.,
No.6 Northern Industry Road,Songshan lake SCI&TECH Industry Park
DongGuan GuangDong 523808
CN

A4-E9-91 (hex) SISTEMAS AUDIOVISUALES ITELSIS S.L.
A4E991 (base 16) SISTEMAS AUDIOVISUALES ITELSIS S.L.
POL.IND. DEL TAMBRE
SANTIAGO COMPOSTELA A CORUÑA 15890
ES

3C-86-A8 (hex) Sangshin elecom .co,, LTD
3C86A8 (base 16) Sangshin elecom .co,, LTD
614-1 Wolhari Suhmyon
Choongnam 339-814
KR

84-F4-93 (hex) OMS spol. s.r.o.
84F493 (base 16) OMS spol. s.r.o.
Dojc 419
Dojc Slovakia 90602
SK

BC-D1-77 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
BCD177 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

7C-D7-62 (hex) Freestyle Technology Pty Ltd
7CD762 (base 16) Freestyle Technology Pty Ltd
1A 24 Ricketts Road
Mount Waverley Victoria 3149
AU

90-1D-27 (hex) zte corporation
901D27 (base 16) zte corporation
12/F.,zte
R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

F0-5D-C8 (hex) Duracell Powermat
F05DC8 (base 16) Duracell Powermat
230 Park Ave, suit 910
new york NY 10169
US

CC-5D-57 (hex) Information System Research Institute,Inc.
CC5D57 (base 16) Information System Research Institute,Inc.
Metro city minamiikebukuro-bldg.5F
Toshima-ku Tokyo 171-0022
JP

E8-DE-27 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
E8DE27 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

28-2C-B2 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
282CB2 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057

CN

64-E5-99 (hex) EFM Networks
64E599 (base 16) EFM Networks
6F, Benposra
II 1197-1 Bojeong Giheung Gu
Yong In Kyunggi do 446913
KR

F4-B3-81 (hex) WindowMaster A/S
F4B381 (base 16) WindowMaster A/S
Skelstedet 13
Vedbaek 2950
DK

74-F1-02 (hex) Beijing HCHCOM Technology Co., Ltd
74F102 (base 16) Beijing HCHCOM Technology Co., Ltd
Patton Building 8 floor,11# Wan liu zhong lu,Haidian District,Beijing,China
Beijing China 100089
CN

F0-F2-60 (hex) Mobitec AB
F0F260 (base 16) Mobitec AB
Box 97
Herrljunga VG 52421
SE

04-4C-EF (hex) Fujian Sanao Technology Co.,Ltd
044CEF (base 16) Fujian Sanao Technology Co.,Ltd
Fuzhou shibei bicyclic road no. 117
Fuzhou Fujian 350000
CN

4C-80-4F (hex) Armstrong Monitoring Corp
4C804F (base 16) Armstrong Monitoring Corp
215 Colonnade Rd
Nepean Ontario K2E 7K3
CA

64-C6-67 (hex) Barnes&Noble
64C667 (base 16) Barnes&Noble
400 Hamilton Avenue
Palo Alto CA 94301
US

10-3D-EA (hex) HFC
Technology (Beijing) Ltd. Co.
103DEA (base 16) HFC Technology (Beijing) Ltd. Co.

Building #3, Room 1214
Beijing AP (Area Pacific) 100193
CN

C8-93-46 (hex) MXCHIP Company Limited
C89346 (base 16) MXCHIP Company Limited
Room 811,Tongpu Building,
Shanghai Shanghai 200333
CN

94-AC-CA (hex) trivum technologies GmbH
94ACCA (base 16) trivum technologies GmbH
Heusteigstraße 37
Stuttgart 70108
DE

90-82-60 (hex) IEEE 1904.1 Working Group
908260 (base 16) IEEE 1904.1 Working Group
1351 Redwood Way,
Petaluma CA 94954
US

D4-EE-07 (hex) HIWIFI Co., Ltd.
D4EE07 (base 16) HIWIFI Co., Ltd.
Room 1002, Zhongguancun e-Plaza A,
Haidian District Beijing 100080
CN

FC-AD-0F (hex) QTS NETWORKS
FCAD0F (base 16) QTS NETWORKS
Jinyanlong Plaza, Huilongguan,
Beijing 100092
CN

98-4C-04 (hex) Zhangzhou Keneng Electrical Equipment Co Ltd
984C04 (base 16) Zhangzhou Keneng Electrical
Equipment Co Ltd
Keneng Technology Park,No.12 Wuqiao Zhong Rd
Zhangzhou Fujian 363005
CN

AC-DB-DA (hex) Shenzhen Geniatech Inc, Ltd
ACDBDA (base 16) Shenzhen Geniatech Inc, Ltd
18th F, GDC Building,No.9 ,Gaoxin Central Avenue 3rd
Shenzhen GuangDong 518057
CN

9C-31-78 (hex) Foshan Huadian Intelligent Communications Teachnologies Co.,Ltd

9C3178 (base 16) Foshan Huadian Intelligent Communications Teachnologies Co.,Ltd
Building B,No.8 of Shishan Industrial Avenue
Foshan Guangdong 528225
CN

98-3F-9F (hex) China SSJ (Suzhou) Network Technology Inc.
983F9F (base 16) China SSJ (Suzhou) Network Technology Inc.
399 Linquan St., Dongnan Building 411
Suzhou Jiangsu 215123
CN

B8-38-CA (hex) Kyokko Tsushin System CO.,LTD
B838CA (base 16) Kyokko Tsushin System CO.,LTD
2-25-7 sakado,Takatsu-ku
Kawasaki Kanagawa 213-0012
JP

B0-14-08 (hex) LIGHTSPEED INTERNATIONAL CO.
B01408 (base 16) LIGHTSPEED
INTERNATIONAL CO.
No.20, LANE 526 NIUPU East RD.
Hsinchu Not US/Canada 30091
TW

08-1D-FB (hex) Shanghai Mexon Communication Technology Co.,Ltd
081DFB (base 16) Shanghai Mexon Communication Technology Co.,Ltd
Floor4-5, Unit B, Building 5 ,Lane 128, Jiujing Road
Shanghai Shanghai 201615
CN

C4-4E-AC (hex) Shenzhen Shiningworth Technology Co., Ltd.
C44EAC (base 16) Shenzhen Shiningworth Technology Co., Ltd.
Room 610, Block B, Huameiju Business Center,
Shenzhen Guangdong 518000
CN

B0-C9-5B (hex) Beijing Symtech CO.,LTD
B0C95B (base 16) Beijing Symtech CO.,LTD
Technology Park Building 2-1,The Hung Fu Pioneer Park
Beijing 102209
CN

38-B5-BD (hex) E.G.O. Elektro-Ger
38B5BD (base 16) E.G.O. Elektro-Ger
Einkauf
Oberderdingen 75038
DE

5C-43-D2 (hex) HAZEMEYER
5C43D2 (base 16) HAZEMEYER
ZI Route de Grugies
GAUCHY FRANCE 02430
FR

D8-09-C3 (hex) Cercacor
Labs
D809C3 (base 16) Cercacor Labs
189 Technology Dr
Irvine CA 92618
US

D4-27-51 (hex) Infopia Co., Ltd
D42751 (base 16) Infopia Co., Ltd
891, Hogye-dong, Dongan-gu
Anyang Gyeonggi 431-080
KR

68-A4-0E (hex) BSH Hausgeräte GmbH
68A40E (base 16) BSH Hausgeräte GmbH
Im Gewerbepark B35
Regensburg Bayern 93059
DE

F4-C6-D7 (hex) blackned GmbH
F4C6D7 (base 16) blackned GmbH
Am Hartholz 21
Alling Bavaria 82239
DE

A8-01-80 (hex) IMAGO Technologies GmbH
A80180 (base 16) IMAGO Technologies GmbH
Strassheimer Str. 45
Friedberg Hessen 61169
DE

0C-55-21 (hex) Axiros GmbH
0C5521 (base 16) Axiros GmbH
Altlaufstrasse 34
Munich Hoehenkirchen Bavaria 85635
DE

4C-CA-53 (hex) Skyera, Inc.
4CCA53 (base 16) Skyera, Inc.
1704 Automation Pkwy
San Jose CA 95131
US

90-FF-79 (hex) Metro Ethernet Forum
90FF79 (base 16) Metro Ethernet Forum
6033 W.
Century Boulevard
Los Angeles California 90045
US

D4-CA-6E (hex) u-blox AG
D4CA6E (base 16) u-blox AG
Zuercherstrasse 68
Thalwil 8800
CH

F8-7B-62 (hex) FASTWEL INTERNATIONAL CO., LTD. Taiwan Branch
F87B62 (base 16) FASTWEL INTERNATIONAL CO., LTD. Taiwan Branch
6F., No.118, Ln. 235, Baociao Rd., Sindian City, Taipei County 231, Taiwan R.O.C.
Taipei 231
TW

74-FE-48 (hex) ADVANTECH CO., LTD.
74FE48 (base 16) ADVANTECH CO., LTD.
NO.1, Alley 20, Lane 26
TAIPEI 231
TW

80-B9-5C (hex) ELFTECH Co., Ltd.
80B95C (base 16) ELFTECH Co., Ltd.
174, Daehyeon Techno World 6F 609,
Uiwang-Si Gyeonggi-Do 437-753
KR

A0-19-17 (hex) Bertel S.p.a.
A01917 (base 16) Bertel S.p.a.
Frazione Rimale, Via Emilia Ovest 61
Fidenza Parma 43036
IT

E4-E4-09 (hex) LEIFHEIT AG
E4E409 (base 16) LEIFHEIT AG
Leifhheitstreet
Nassau Rheinland-Pfalz 56377
DE

68-B8-D9 (hex) Act
KDE, Inc.
68B8D9 (base 16) Act KDE, Inc.
196-14, Bangi-dong, Songpa-gu

Seoul 138-834
KR

90-CC-24 (hex) Synaptics, Inc
90CC24 (base 16) Synaptics, Inc
1251 McKay Drive
San Jose CA 95131-1709
US

78-98-FD (hex) Q9 Networks Inc.
7898FD (base 16) Q9 Networks Inc.
Suite 4400, PO Box 235
Toronto ON M5K 1J3
CA

D0-63-B4 (hex) SolidRun Ltd.
D063B4 (base 16) SolidRun Ltd.
P.O Box 50782
Nazareth ISRAEL 16165
IL

10-5C-BF (hex) DuroByte Inc
105CBF (base 16) DuroByte Inc
875 Foster Ave, Unit 101
Windsor Ontario N8X4W3
CA

2C-E8-71 (hex) Alert Metalguard ApS
2CE871 (base 16) Alert Metalguard ApS
Vester Voldgade 104, st, th
Copenhagen V 1552
DK

40-27-0B (hex) Mobileeco Co., Ltd
40270B (base 16) Mobileeco Co., Ltd
#2126, IT Tower B, Keumkang Penterium Bldg, 810
Anyang City Kyunggi-Do 431810
KR

E4-EE-FD (hex) MR&D Manufacturing
E4EEFD (base
16) MR&D Manufacturing
Viale dell'Unione Europea, 8
Gallarate Varese 21013
US

20-91-8A (hex) PROFALUX
20918A (base 16) PROFALUX

377 rue des Cypr
THYEZ Haute Savoie 74300
FR

8C-33-30 (hex) EmFirst Co., Ltd.
8C3330 (base 16) EmFirst Co., Ltd.
701 Suwon Venture Center
Suwon Gyeonggi-do 442-833
KR

08-7B-AA (hex) SVYAZKOMPLEKTSERVICE, LLC
087BAA (base 16) SVYAZKOMPLEKTSERVICE, LLC
Lenskaya 2-21
Moscow 129327
US

EC-49-93 (hex) Qihan Technology Co., Ltd
EC4993 (base 16) Qihan Technology Co., Ltd
20th Floor,Times Technology BuildingNo.7028,Shennan Road,Futian,
Shenzhen Guangdong 518040
CN

B0-AC-FA (hex) FUJITSU LIMITED
B0ACFA (base 16) FUJITSU LIMITED
403, Kosugi-cho 1-chome, Nakahara-ku
Kawasaki Kanagawa 211-0063
JP

8C-E0-81 (hex) zte corporation
8CE081 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen
guangdong 518057
CN

C8-8A-83 (hex) Dongguan HuaHong Electronics Co.,Ltd
C88A83 (base 16) Dongguan HuaHong Electronics Co.,Ltd
NO.25,Xing Er Road,Chen Wu Industrial Zone,Wusha Village,Chang£§an Town
Dongguan City China/Guangdong 523858
CN

8C-C5-E1 (hex) ShenZhen Konka Telecommunication Technology Co.,Ltd
8CC5E1 (base 16) ShenZhen Konka Telecommunication Technology Co.,Ltd
No.9008 Shennan Road
ShenZhen GuangDong 518053
CN

64-A3-41 (hex) Wonderlan (Beijing) Technology Co., Ltd.

64A341 (base 16) Wonderlan (Beijing) Technology Co., Ltd.
Room 04D, Building D, KeShi Plaza
Haidian District Beijing 100085
CN

00-4D-32 (hex) Andon Health Co.,Ltd.
004D32 (base 16) Andon Health Co.,Ltd.
NO.3Jin PIng Road Ya An Street
Tianjin 300190
CN

24-F2-DD (hex) Radiant Zemax LLC
24F2DD (base 16) Radiant Zemax LLC
22908 NE Alder Crest Dr NE Ste 100
Redmond WA 98053
US

20-B5-C6 (hex) Mimosa
Networks
20B5C6 (base 16) Mimosa Networks
656 N. Santa Cruz. Ave., Suite B
Los Gatos CA 95030
US

2C-44-1B (hex) Spectrum Medical Limited
2C441B (base 16) Spectrum Medical Limited
Harrier 4, Meteor Business Park
Gloucester GL2 9QL
US

B8-77-C3 (hex) METER Group
B877C3 (base 16) METER Group
2365 NE Hopkins Court
Pullman WA 99163
US

FC-A9-B0 (hex) MIARTECH (SHANGHAI),INC.
FCA9B0 (base 16) MIARTECH (SHANGHAI),INC.
3F,Building 4,No 290 Zhangheng Road Zhangjiang Hi-Tech Park,Pudong New District Shanghai,P.R.China
SHANGHAI SHANGHAI 201204
CN

A4-4E-2D (hex) Adaptive Wireless Solutions, LLC
A44E2D (base 16) Adaptive Wireless Solutions, LLC
577 Main Street
Hudson MA 01749
US

A4-6E-79 (hex) DFT System Co.Ltd
A46E79 (base 16) DFT System Co.Ltd
Room 6B XINHAOFANG Building
SHENZHEN GUANGDONG 518052
CN

9C-54-1C (hex) Shenzhen My-power Technology Co.,Ltd
9C541C
(base 16) Shenzhen My-power Technology Co.,Ltd
202¬Building 3¬Shenzhen Software Park
Shenzhen Nanshan 518000
CN

C4-45-67 (hex) SAMBON PRECISON and ELECTRONICS
C44567 (base 16) SAMBON PRECISON and ELECTRONICS
204, Samjeong-dong, Ojeong-gu
Bucheon-city Kyeonggi-do 421-810
KR

E4-56-14 (hex) Suttle Apparatus
E45614 (base 16) Suttle Apparatus
1001 East Highway 212
Hector MN 55342
US

3C-83-B5 (hex) Advance Vision Electronics Co. Ltd.
3C83B5 (base 16) Advance Vision Electronics Co. Ltd.
6F, No. 199, Lide St. Jhonghe Dist
New Taipei City, Jhonghe Dist 23556
TW

28-A1-92 (hex) GERP Solution
28A192 (base 16) GERP Solution
Rua Costa Aguiar, 1710
São Paulo SP 04204002
BR

68-1C-A2 (hex) Rosewill Inc.
681CA2 (base 16) Rosewill Inc.
17708 Rowland St.,
City of Industry CA 91748
US

60-46-16 (hex) XIAMEN VANN INTELLIGENT CO., LTD
604616 (base 16) XIAMEN VANN
INTELLIGENT CO., LTD
UNIT 101£¬NO.28 GUANRI RD., SOFTWARE PARK ¢ò
XIAMEN FUJIAN 361009

CN

6C-40-C6 (hex) Nimbus Data, Inc.
6C40C6 (base 16) Nimbus Data, Inc.
5151 California Ave, Ste 100
Irvine CA 92617
US

10-48-B1 (hex) Beijing Duokan Technology Limited
1048B1 (base 16) Beijing Duokan Technology Limited
Room 1105, Changxin Building, No.39 Anding Road
Chaoyang District Beijing 100029
CN

0C-CD-FB (hex) EDIC Systems Inc.
0CCDFB (base 16) EDIC Systems Inc.
1-3-7 Nakamachidai
Yokohama Kanagawa 224-0041
JP

9C-8D-1A (hex) INTEG process group inc
9C8D1A (base 16) INTEG process group inc
2919 E Hardies Rd, First Floor
Gibsonia PA 15044
US

48-03-62 (hex) DESAY ELECTRONICS(HUIZHOU)CO.,LTD
480362 (base 16) DESAY ELECTRONICS(HUIZHOU)CO.,LTD
BuildingA,No.3 Desay Industrial Zone
Huizhou Guangdong 516029
CN

18-67-3F (hex) Hanover Displays Limited
18673F (base 16) Hanover
Displays Limited
Unit 24
Lewes East Sussex BN8 6JL
GB

7C-0A-50 (hex) J-MEX Inc.
7C0A50 (base 16) J-MEX Inc.
B2, 3F, No.1, Li-Hsin 1st Road,
Hsinchu Taiwan 300
TW

10-6F-EF (hex) Ad-Sol Nissin Corp
106FEF (base 16) Ad-Sol Nissin Corp
Rivage Shinagawa, 4-1-8 Kounan

Minato-ku Tokyo 108-0075
JP

50-11-EB (hex) SilverNet Ltd
5011EB (base 16) SilverNet Ltd
16 Cocran Close
Milton Keynes Bucks MK8 0AJ
GB

54-DF-63 (hex) Intrakey technologies GmbH
54DF63 (base 16) Intrakey technologies GmbH
Wiener Strasse 114-116
Dresden Saxony 01219
DE

DC-9F-A4 (hex) Nokia Corporation
DC9FA4 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

44-C3-9B (hex) OOO RUBEZH NPO
44C39B (base 16) OOO RUBEZH NPO
Pionerskaya 11a
Bratsk Irkutsk 665717
RU

40-F2-E9 (hex) IBM
40F2E9 (base 16) IBM
3039 E Cornwallis Rd
Research Triangle Park NC
27709
US

74-4D-79 (hex) Arrive Systems Inc.
744D79 (base 16) Arrive Systems Inc.
1404 Franklin Street, # 350
Oakland CA 94612
US

9C-04-73 (hex) Tecmobile (International) Ltd.
9C0473 (base 16) Tecmobile (International) Ltd.
Unit L, Braintree Industrial Estate,
HA4 0EJ
GB

D4-93-A0 (hex) Fidelix Oy
D493A0 (base 16) Fidelix Oy

Martinkyläntie 41
VANTAA International 01720
FI

08-EB-ED (hex) World Elite Technology Co.,LTD
08EBED (base 16) World Elite Technology Co.,LTD
6/F Liyuan floor ,Dragon City North Road on the 3rd
ShenZhen GuangDong 518100
CN

48-F8-B3 (hex) Cisco-Linksys, LLC
48F8B3 (base 16) Cisco-Linksys, LLC
121 Theory Drive
Irvine California 92612
US

B4-DF-FA (hex) Litemax Electronics Inc.
B4DFFA (base 16) Litemax Electronics Inc.
8F, No.137,Lane 235
Shin-dian-Dist New Taipei 23145
TW

5C-4A-26 (hex) Enguity Technology Corp
5C4A26
(base 16) Enguity Technology Corp
2020 Pennsylvania Ave., NW
Washington DC 20006
US

D8-D2-7C (hex) JEMA ENERGY, SA
D8D27C (base 16) JEMA ENERGY, SA
Pº Circuito nº10
Lasarte-Oria Guipuzcoa 20160
ES

B0-12-03 (hex) Dynamics Hong Kong Limited
B01203 (base 16) Dynamics Hong Kong Limited
Room A4, 3/F, Friend's House , No.6A Carnarvon Road,
999077
HK

98-86-B1 (hex) Flyaudio corporation (China)
9886B1 (base 16) Flyaudio corporation (China)
No.16 Mingzhu RD Economic&Technology
Guangzhou Guangdong Province 510730
CN

70-93-F8 (hex) Space Monkey, Inc.

7093F8 (base 16) Space Monkey, Inc.
7707 south main street
Midvale Utah 84047
US

28-B3-AB (hex) Genmark Automation
28B3AB (base 16) Genmark Automation
1201 Cadillac Ct
Milpitas CA 95035
US

C4-E7-BE (hex) SCSpro Co.,Ltd
C4E7BE (base 16) SCSpro Co.,Ltd
#1203, KCC welltz valley 470-8
Seoul Korea 153-710
KR

58-87-4C
(hex) LITE-ON CLEAN ENERGY TECHNOLOGY CORP.
58874C (base 16) LITE-ON CLEAN ENERGY TECHNOLOGY CORP.
3F, 392, Ruey Kuang Road, Neihu,
Taipei 11492
TW

28-91-D0 (hex) Stage Tec Entwicklungsgesellschaft für professionelle Audiotechnik mbH
2891D0 (base 16) Stage Tec Entwicklungsgesellschaft für professionelle Audiotechnik mbH
Tabbertstraße 10
Berlin 12459
DE

C0-BD-42 (hex) ZPA Smart Energy a.s.
C0BD42 (base 16) ZPA Smart Energy a.s.
Komenskeho 821
Trutnov 54101
CZ

20-DC-93 (hex) Cheetah Hi-Tech, Inc.
20DC93 (base 16) Cheetah Hi-Tech, Inc.
Rm 804, No. 5, Sec. 2, Anhe Rd.
Taipei Taiwan 10680
TW

2C-62-5A (hex) Finest Security Systems Co., Ltd
2C625A (base 16) Finest Security Systems Co., Ltd
12F, No.103, Sec3, Nan King E. RD
Taipei 104
US

20-74-CF (hex) Shenzhen Voxtech Co.,Ltd
2074CF (base 16) Shenzhen Voxtech Co.,Ltd
4/F East, Building 4, Minqi
Science&Technology Park, Pingshan,
Shenzhen Guangdong 518055
CN

FC-52-CE (hex) Control iD
FC52CE (base 16) Control iD
Rua Hungria, 574
São Paulo SP 01455-000
BR

D8-C6-91 (hex) Hichan Technology Corp.
D8C691 (base 16) Hichan Technology Corp.
12F., No.2, Jian 8th Rd., Zhonghe Dist
New Taipei City 23511
TW

E4-3F-A2 (hex) Wuxi DSP Technologies Inc.
E43FA2 (base 16) Wuxi DSP Technologies Inc.
Rm A801,530Mansion,International High-Tech Park,Qingyuan Road
Wuxi Jiangsu 214000
US

F4-B7-2A (hex) TIME INTERCONNECT LTD
F4B72A (base 16) TIME INTERCONNECT LTD
6/F, Photonics Centre

HK

E0-F5-CA (hex) CHENG UEI PRECISION INDUSTRY CO.,LTD.
E0F5CA (base 16) CHENG UEI PRECISION INDUSTRY CO.,LTD.
No. 18, ZhongShan Rd., TuCheng Dist.,
New Taipei City Taiwan 23680
TW

A8-EF-26 (hex) Tritonwave
A8EF26 (base 16) Tritonwave
795 Lakeshore Dr, Suite 307
Quebec H9S 0A8
CA

5C-24-79
(hex) Baltech AG
5C2479 (base 16) Baltech AG
Lilienthalstrasse 27
Hallbergmoos 85399

DE

D8-2D-E1 (hex) Tricascade Inc.
D82DE1 (base 16) Tricascade Inc.
5020 Campus Drv.
Newport Beach CA 92660
US

14-35-8B (hex) Mediabridge Products, LLC.
14358B (base 16) Mediabridge Products, LLC.
1951 Old Cuthbert Rd
Cherry Hill New Jersey 08034
US

00-F4-03 (hex) Orbis Systems Oy
00F403 (base 16) Orbis Systems Oy
Taivaltie 5
Vantaa 01610
FI

54-73-98 (hex) Toyo Electronics Corporation
547398 (base 16) Toyo Electronics Corporation
1860-38, Simoakasaka
Kawagoe Saitama 3501155
JP

60-F2-EF (hex) VisionVera International Co., Ltd.
60F2EF (base 16) VisionVera International Co., Ltd.
A1103 Gehua Building
Beijing 100007
CN

C0-3F-2A (hex) Biscotti, Inc.
C03F2A (base 16) Biscotti, Inc.
5900 South Lake Forest Drive
McKinney TX 75070
US

38-1C-4A
(hex) SIMCom Wireless Solutions Co.,Ltd.
381C4A (base 16) SIMCom Wireless Solutions Co.,Ltd.
Building A,SIM Technology Building,No.633,Jinzhong Road,
Shanghai 200335
CN

54-39-68 (hex) Edgewater Networks Inc
543968 (base 16) Edgewater Networks Inc
2895 Northwestern Parkway

Santa Clara CA 95051
US

44-0C-FD (hex) NetMan Co., Ltd.
440CFD (base 16) NetMan Co., Ltd.
Rm 406, DIP, 2139, Daemyeong-dong,
Daegu 705-701
KR

8C-D3-A2 (hex) VisSim AS
8CD3A2 (base 16) VisSim AS
Vollveien 5
Horten Vestfold 3183
NO

EC-93-27 (hex) MEMMERT GmbH + Co. KG
EC9327 (base 16) MEMMERT GmbH + Co. KG
Aeussere Rittersbacher Strasse 38
Schwabach Bavaria 91126
DE

C4-39-3A (hex) SMC Networks Inc
C4393A (base 16) SMC Networks Inc
20 Mason
Irvine CA 92618
US

74-99-75 (hex) IBM Corporation
749975 (base 16) IBM Corporation
4400 North First Street
San Jose
CA 95134
US

88-10-36 (hex) Panodic(ShenZhen) Electronics Limted
881036 (base 16) Panodic(ShenZhen) Electronics Limted
Floor 12, Grentech Building, Keji.C. Road
ShenZhen GuangDong 518052
CN

68-B6-FC (hex) Hitron Technologies. Inc
68B6FC (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

60-CB-FB (hex) AirScape Inc.
60CBFB (base 16) AirScape Inc.

625 Charles Way
Medford OR 97501
US

7C-16-0D (hex) Saia-Burgess Controls AG
7C160D (base 16) Saia-Burgess Controls AG
Bahnhofstrasse 18
Murten FR 3280
CH

A4-97-BB (hex) Hitachi Industrial Equipment Systems Co.,Ltd
A497BB (base 16) Hitachi Industrial Equipment Systems Co.,Ltd
3, Kanda Neribei-cho
Chiyoda-ku Tokyo 101-0022
US

4C-54-27 (hex) Linepro Sp. z o.o.
4C5427 (base 16) Linepro Sp. z o.o.
ul. Miedziana 11
Warszawa mazowieckie
00-835
PL

A4-93-4C (hex) Cisco Systems, Inc
A4934C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

D0-D2-12 (hex) K2NET Co.,Ltd.
D0D212 (base 16) K2NET Co.,Ltd.
K2Net Building
Seoul 158-092
KR

80-D1-8B (hex) Hangzhou I'converge Technology Co.,Ltd
80D18B (base 16) Hangzhou I'converge Technology Co.,Ltd
No.618 Xixi Road,
Hangzhou Zhejiang 310012
CN

40-88-E0 (hex) Beijing Ereneben Information Technology Limited Shenzhen Branch
4088E0 (base 16) Beijing Ereneben Information Technology Limited Shenzhen Branch
Room 14A, Building A, Honglong Central Plaza, No.3001,Heping Road, Luohu District, Shenzhen City
Shenzhen Guangdong 518001
CN

E8-54-84 (hex) NEO Information Systems Co., Ltd.

E85484 (base 16) NEO Information Systems Co., Ltd.
609, Jungangindustpia, #517-13, Sangdaeweon-Dong, Jungweon-Gu
Seongnam Gyunggi-Do 462-713
KR

74-AE-76 (hex) iNovo Broadband,
Inc.
74AE76 (base 16) iNovo Broadband, Inc.
3475 Corporate Way
Duluth Georgia 30096
US

1C-84-64 (hex) FORMOSA WIRELESS COMMUNICATION CORP.
1C8464 (base 16) FORMOSA WIRELESS COMMUNICATION CORP.
11F., No.3-2, Yuanqu St., Nangang Dist.,
Taipei City 115
TW

64-51-7E (hex) LONG BEN (DONGGUAN) ELECTRONIC TECHNOLOGY CO.,LTD.
64517E (base 16) LONG BEN (DONGGUAN) ELECTRONIC TECHNOLOGY CO.,LTD.
NO.19.Jian she Road,Shi ma Village,Tang xia Town,Dong guan,Guang dong,China
Dong guan Guang dong 523731
CN

D4-3D-7E (hex) Micro-Star Int'l Co, Ltd
D43D7E (base 16) Micro-Star Int'l Co, Ltd
No.69, Lide St., Jhonghe City
Taipei County 235
US

AC-D9-D6 (hex) tci GmbH
ACD9D6 (base 16) tci GmbH
Ludwig-Rinn-Straße 10-14
Heuchelheim Hessen 35452
US

44-23-AA (hex) Farmage Co., Ltd.
4423AA (base 16) Farmage Co., Ltd.
166-8 Kanazawa Toubetsu
Hokkaido 061-0212
JP

7C-FE-28
(hex) Salutron Inc.
7CFE28 (base 16) Salutron Inc.
40979 Encyclopedia Circle
Fremont CA 94538
US

E8-10-2E (hex) Really Simple Software, Inc
E8102E (base 16) Really Simple Software, Inc
P.O. Box 1086
Tiburon California 94920
US

0C-56-5C (hex) HyBroad Vision (Hong Kong) Technology Co Ltd
0C565C (base 16) HyBroad Vision (Hong Kong) Technology Co Ltd
Unit 1808 18/F Tower 3 Enterprise Square
Kowloon Bay
HK

8C-6A-E4 (hex) Viogem Limited
8C6AE4 (base 16) Viogem Limited
Paddock House
Orlingbury Northamptonshire NN141JH
GB

A0-EF-84 (hex) Seine Image Int'l Co., Ltd
A0EF84 (base 16) Seine Image Int'l Co., Ltd
6F,4Building, NO.63,Mingz North Road
ZhuHai 519075
CN

E0-A3-0F (hex) Pevco
E0A30F (base 16) Pevco
1401 Tangier Drive
Baltimore MD 21220
US

88-DC-96 (hex) EnGenius Technologies, Inc.
88DC96 (base 16) EnGenius Technologies, Inc.
No. 500, Fusing
3rd Rd., Hwa-Ya Technology Park
Kuei-Shan Hsiang TaoYuan County 333
TW

20-44-3A (hex) Schneider Electric Asia Pacific Ltd
20443A (base 16) Schneider Electric Asia Pacific Ltd
13F East Wing, Warwick House, Taikoo Place
Quarry Bay
HK

EC-A2-9B (hex) Kemppi Oy
ECA29B (base 16) Kemppi Oy
Kempinkatu 1
Lahti Lahti 15810

FI

C4-BA-99 (hex) I+ME Actia Informatik und Mikro-Elektronik GmbH
C4BA99 (base 16) I+ME Actia Informatik und Mikro-Elektronik GmbH
Dresdenstrasse 17/18
Braunschweig Niedersachsen 38690
DE

04-CE-14 (hex) Wilocity LTD.
04CE14 (base 16) Wilocity LTD.
21 Bareket St.
Caesarea Israel 38900
US

E8-D4-83 (hex) ULTIMATE Europe Transportation Equipment GmbH
E8D483 (base 16) ULTIMATE Europe Transportation Equipment GmbH
Industriestraße 3
3300 Niederösterreich 3300
AT

48-28-2F (hex) zte corporation
48282F (base 16) zte corporation
12/F.,zte R&D building
,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

EC-1A-59 (hex) Belkin International Inc.
EC1A59 (base 16) Belkin International Inc.
12045 East Waterfront Drive
Playa Vista Ca. 90094
US

B0-43-5D (hex) NuLEDs, Inc.
B0435D (base 16) NuLEDs, Inc.
1497 Poinsettia Ave.
Vista CA 92081
US

08-08-EA (hex) AMSC
0808EA (base 16) AMSC
15775 W Schaefer Court
New Berlin WI 53151
US

B4-55-70 (hex) Borea
B45570 (base 16) Borea
Mlaka 1b

Begunje SI-4275
SI

10-0D-2F (hex) Online Security Pty. Ltd.
100D2F (base 16) Online Security Pty. Ltd.
5/21-25 Redland Drive
Mitcham VIC 3132
AU

3C-98-BF (hex) Quest Controls, Inc.
3C98BF (base 16) Quest Controls, Inc.
208 9th Street Dr. West
Palmetto FL 34221
US

D0-AE-EC (hex) Alpha Networks Inc.
D0AEEC (base 16) Alpha Networks Inc.
No.8 Li-shing 7th Rd., Science-based Industrial Park, Hsinchu,
Taiwan, R.O.C
Hsinchu Taiwan 300
TW

F0-FD-A0 (hex) Acurix Networks Pty Ltd
F0FDA0 (base 16) Acurix Networks Pty Ltd
Unit 5, 348 Victoria Road,
Malaga, Perth Western Austraila 6090
NZ

34-6E-8A (hex) Ecosense
346E8A (base 16) Ecosense
1414 Kolon science vallet-II., #811
Seoul Guro-gu 152-878
KR

64-F2-42 (hex) Gerdes Aktiengesellschaft
64F242 (base 16) Gerdes Aktiengesellschaft
Bergerwiesenstraße 9
Meckenheim NRW 53340
DE

60-F2-81 (hex) TRANWO TECHNOLOGY CO., LTD.
60F281 (base 16) TRANWO TECHNOLOGY CO., LTD.
No.236, Sec.3, Huanbei Rd.
Jubei City Hsinchu County 30265
TW

0C-C0-C0 (hex) MAGNETI MARELLI SISTEMAS ELECTRONICOS MEXICO
0CC0C0 (base 16) MAGNETI MARELLI SISTEMAS ELECTRONICOS MEXICO

AV. INDUSTRIA 20/21
TEPOTZOTLAN MEXICO 54600
MX

08-37-9C (hex) Topaz Co. LTD.
08379C (base 16) Topaz Co. LTD.
B305-22, Acrotower, 1591 Gwanyang-dong
Anyang-si
Gyeonggi-Do 431-060
KR

D8-0D-E3 (hex) FXI TECHNOLOGIES AS
D80DE3 (base 16) FXI TECHNOLOGIES AS
Postboks 609
TRONDHEIM Norge 7406
NO

A0-C3-DE (hex) Triton Electronic Systems Ltd.
A0C3DE (base 16) Triton Electronic Systems Ltd.
620063, Ekaterinburg, P/O box 522
Ekaterinburg Sverdlovskaya obl. 620063
RU

14-2D-F5 (hex) Amphitech
142DF5 (base 16) Amphitech
1, rue Robert & Sonia DELAUNAY
Paris 75011
FR

94-21-97 (hex) Stalmart Technology Limited
942197 (base 16) Stalmart Technology Limited
Rm1106-1107E, Building F, Xihaimingzhu, No.1, Taoyuan Road
Shenzhen Gunagdong 518052
CN

B0-D2-F5 (hex) Vello Systems, Inc.
B0D2F5 (base 16) Vello Systems, Inc.
1530 O'Brien Drive
Menlo Park California 94025
US

70-9A-0B (hex) Italian Institute of Technology
709A0B (base 16) Italian Institute of Technology
Via Morego 30
Genova GE 16163
IT

E8-13-24 (hex) GuangZhou

Bonsoninfo System CO.,LTD
E81324 (base 16) GuangZhou Bonsoninfo System CO.,LTD
4/F,NO.1029/31,GaoPu Road,GaoTang New Building District
Guangzhou Guangdong 510663
CN

D0-69-9E (hex) LUMINEX Lighting Control Equipment
D0699E (base 16) LUMINEX Lighting Control Equipment
Berkenlaan 8 A
Hechtel - Eksel Limburg 3940
BE

50-57-A8 (hex) Cisco Systems, Inc
5057A8 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-DE-FB (hex) Cisco Systems, Inc
00DEFB (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

3C-A3-15 (hex) Bless Information & Communications Co., Ltd
3CA315 (base 16) Bless Information & Communications Co., Ltd
#64-1, Wonhyoro 3-ga, Yongsan-gu,
Seoul 140-848
KR

F8-30-94 (hex) Alcatel-Lucent Telecom Limited
F83094 (base 16) Alcatel-Lucent Telecom Limited
The Quadrant, Stonehill Green
SWINDON SN5 7DJ
GB

10-A9-32
(hex) Beijing Cyber Cloud Technology Co. ,Ltd.
10A932 (base 16) Beijing Cyber Cloud Technology Co. ,Ltd.
2/F, Tower B, Jingmeng High-tech Building. No. 5 Shangdi East Road, Haidian District.
Beijing 100085
CN

34-FC-6F (hex) ALCEA
34FC6F (base 16) ALCEA
3 Rue Joly de Bammeville
91460 Marcoussis
FR

C0-B3-57 (hex) Yoshiki Electronics Industry Ltd.
C0B357 (base 16) Yoshiki Electronics Industry Ltd.
Ooicyoyo Building 7f
Shinagawa-ku Tokyo 140-0011
JP

A8-17-58 (hex) Elektronik System i Umeå AB
A81758 (base 16) Elektronik System i Umeå AB
Box 7978
Umeå Västerbotten 907 19
SE

F4-73-CA (hex) Conversion Sound Inc.
F473CA (base 16) Conversion Sound Inc.
960 N. Northwest Hwy
Park Ridge IL 60068
US

F8-F7-FF (hex) SYN-TECH SYSTEMS INC
F8F7FF (base 16) SYN-TECH SYSTEMS INC
100 FOUR POINTS WAY
TALLAHASSEE FL 32305
US

E4-C8-06 (hex) Ceiec Electric Technology Inc.
E4C806
(base 16) Ceiec Electric Technology Inc.
8/F West Side, Building 201, Terra Industrial & Tradepark, Che Gong Miao,
Shenzhen Guangdong 518040
CN

44-2B-03 (hex) Cisco Systems, Inc
442B03 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

88-20-12 (hex) LMI Technologies
882012 (base 16) LMI Technologies
1673 Cliveden Avenue
Delta British Columbia V3M 6V5
CA

E4-77-D4 (hex) Minrray Industry Co.,Ltd
E477D4 (base 16) Minrray Industry Co.,Ltd
C5, Building 2, ZhongHaiXin ,Science&Technology Park, Ganli Rd, LiLang Blvd., Buji
Shenzhen GuangDong 518112

CN

38-E0-8E (hex) Mitsubishi Electric Corporation
38E08E (base 16) Mitsubishi Electric Corporation
2-7-3 Marunouchi Chiyoda-ku
Tokyo 100-8310
JP

08-B4-CF (hex) Abicom International
08B4CF (base 16) Abicom International
The Old Grammar School
Market Drayton Shropshire TF9 1JR
GB

7C-94-B2
(hex) Philips Healthcare PCCI
7C94B2 (base 16) Philips Healthcare PCCI
2271 Cosmos Ct
Carlsbad CA 92011
US

E0-F9-BE (hex) Cloudena Corp.
E0F9BE (base 16) Cloudena Corp.
6F., No. 5, Alley 22, Lane 513
Taipei City 114
TW

B8-8F-14 (hex) Analytica GmbH
B88F14 (base 16) Analytica GmbH
Vorholzstraße 36
Karlsruhe Baden-Württemberg 76137
DE

C4-95-A2 (hex) SHENZHEN WEIJIU INDUSTRY AND TRADE DEVELOPMENT CO., LTD
C495A2 (base 16) SHENZHEN WEIJIU INDUSTRY AND TRADE DEVELOPMENT CO., LTD
ROOM 1713,BAOHUA BUILDING, HUAQIANG NORTH ROAD, FUTIAN DISTRICT,
SHENZHEN GUANGDONG 518031
CN

8C-68-78 (hex) Nortek-AS
8C6878 (base 16) Nortek-AS
Vangkroken 2
Akreshus 1351 RUD
NO

20-25-98 (hex) Teleview
202598 (base 16) Teleview
#401 Sehwa, 355-1

Sungnam Gyeonggi 463-828
KR

38-F8-B7 (hex) V2COM PARTICIPACOES S.A.
38F8B7 (base 16) V2COM PARTICIPACOES S.A.
Rua Cunha
Gago, 700
São Paulo 05421001
BR

A0-4C-C1 (hex) Helixtech Corp.
A04CC1 (base 16) Helixtech Corp.
6F Lions bldg., 160-2 Gangnam-daero,
Seoul 137-888
KR

00-37-6D (hex) Murata Manufacturing Co., Ltd.
00376D (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

50-00-8C (hex) Hong Kong Telecommunications (HKT) Limited
50008C (base 16) Hong Kong Telecommunications (HKT) Limited
41/F, PCCW Tower, Taikoo Place,

HK

A4-90-05 (hex) CHINA GREATWALL COMPUTER SHENZHEN CO.,LTD
A49005 (base 16) CHINA GREATWALL COMPUTER SHENZHEN CO.,LTD
409,2#,Greatwall Bldg,No.3 Kefa Road,Science & Industry Park,Nanshan District,
Shenzhen Guangdong 51807
CN

C4-0A-CB (hex) Cisco Systems, Inc
C40ACB (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

D4-A0-2A (hex) Cisco Systems, Inc
D4A02A (base 16) Cisco Systems, Inc
80
West Tasman Drive
San Jose CA 94568
US

F8-D4-62 (hex) Pumatronix Equipamentos Eletronicos Ltda.

F8D462 (base 16) Pumatronix Equipamentos Eletronicos Ltda.
Rua Bartolomeu Lourenco de Gusmao 2021
Curitiba PR 81650050
BR

A0-DC-04 (hex) Becker-Antriebe GmbH
A0DC04 (base 16) Becker-Antriebe GmbH
Friedrich-Ebert-Straße 2 - 4
35764 Sinn Hessen DE811177977
DE

40-60-5A (hex) Hawkeye Tech Co. Ltd
40605A (base 16) Hawkeye Tech Co. Ltd
13F-5, No. 736 Chung Cheng Road, Chung He
New Taipei 23511
TW

F4-87-71 (hex) Infoblox
F48771 (base 16) Infoblox
4750 Patrick Henry Drive
Santa Clara California 95054
US

E8-6D-6E (hex) voestalpine Signaling UK Ltd.
E86D6E (base 16) voestalpine Signaling UK Ltd.
Unit 1, Fulcrum 4, Solent Way
Whiteley Hampshire PO15 7FT
GB

68-16-05 (hex) Systems And Electronic Development FZCO
681605 (base 16) Systems And Electronic Development FZCO
Roundabout
no. 8
Jebel Ali free Zone Dubai P.O.Box 61129
AE

60-E9-56 (hex) Ayla Networks, Inc
60E956 (base 16) Ayla Networks, Inc
218 Morgan Lane
Menlo Park CA 94025
US

EC-11-20 (hex) FloDesign Wind Turbine Corporation
EC1120 (base 16) FloDesign Wind Turbine Corporation
Papirfabrikken 28
Silkeborg 8600
DK

F8-97-CF (hex) DAESHIN-INFORMATION TECHNOLOGY CO., LTD.
F897CF (base 16) DAESHIN-INFORMATION TECHNOLOGY CO., LTD.
6F, Chungwon Bldg., 828-5 Yuksam-Dong,Kangnam-Gu,
Seoul 135935
KR

34-A7-BA (hex) Fischer International Systems Corporation
34A7BA (base 16) Fischer International Systems Corporation
5801 Pelican Bay Boulevard #300
Naples Florida 34108
US

3C-4E-47 (hex) Etronic A/S
3C4E47 (base 16) Etronic A/S
Rødeledsvej 95
Svendborg South Denmark 5700
DK

04-63-E0 (hex) Nome Oy
0463E0 (base 16) Nome Oy
Lunkintie 9
Oulunsalo Oulun lni 90460
FI

B4-9E-E6
(hex) SHENZHEN TECHNOLOGY CO LTD
B49EE6 (base 16) SHENZHEN TECHNOLOGY CO LTD
NO34 SHILONG RD
SHENZHEN GUANGDONG 91732
CN

BC-4B-79 (hex) SensingTek
BC4B79 (base 16) SensingTek
2F, No.6-2,Dusing Rd.,Hsinchu Science Park,
Hsinchu 30078
TW

54-53-ED (hex) Sony Corporation
5453ED (base 16) Sony Corporation
Gotenyama Tec 5-1-2
Tokyo Shinagawa-ku 141-0001
JP

BC-FE-8C (hex) Altronic, LLC
BCFE8C (base 16) Altronic, LLC
712 Trumbull Ave
Girard Ohio 44420
US

64-9E-F3 (hex) Cisco Systems, Inc
649EF3 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

24-BB-C1 (hex) Absolute Analysis
24BBC1 (base 16) Absolute Analysis
2393 Teller Road Ste #109
Newbury Park California 91320
US

64-55-63 (hex) Intelight Inc.
645563 (base 16) Intelight Inc.
3450 S Broadmont Drive #126
Tucson Arizona 85713
US

94-3A-F0
(hex) Nokia Corporation
943AF0 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

3C-E6-24 (hex) LG Display
3CE624 (base 16) LG Display
9th, Fl., LG U+ building, 65-228, Hangangro, 3-ga, Yongsan-gu
Seoul 140-716
KR

D8-F0-F2 (hex) Zeebo Inc
D8F0F2 (base 16) Zeebo Inc
5405 Morehouse Drive
San Diego California 92121
US

9C-CA-D9 (hex) Nokia Corporation
9CCAD9 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

24-B8-8C (hex) Crenus Co.,Ltd.
24B88C (base 16) Crenus Co.,Ltd.
Mario Tower 814, 222-12
Seoul 152-050

KR

88-C3-6E (hex) Beijing Ereneben lnformation Technology Limited
88C36E (base 16) Beijing Ereneben lnformation Technology Limited
Room 14F,Building F,Honglong Central Plaza,NO,3001,Heping Road,LuoHu
ShenZhen GuangDong 518110
CN

88-E7-12 (hex) Whirlpool Corporation
88E712 (base 16) Whirlpool Corporation
750 Monte
Dr.
Benton Harbor Michigan 49022
US

D4-12-BB (hex) Quadrant Components Inc. Ltd
D412BB (base 16) Quadrant Components Inc. Ltd
Unit 5, 17/F, Metro Loft,
Kwai Chung, New Territory
HK

64-54-22 (hex) Equinox Payments
645422 (base 16) Equinox Payments
8888 E. Raintree Dr., Suite 300
Scottsdale Arizona 85260
US

08-0D-84 (hex) GECO, Inc.
080D84 (base 16) GECO, Inc.
1754 N. 48th St.
Mesa AZ 85205
US

4C-9E-80 (hex) KYOKKO ELECTRIC Co., Ltd.
4C9E80 (base 16) KYOKKO ELECTRIC Co., Ltd.
5-7-20, Motomachi-dori, Chuo-Ku
Kobe Hyogo 6500022
JP

5C-EB-4E (hex) R. STAHL HMI Systems GmbH
5CEB4E (base 16) R. STAHL HMI Systems GmbH
Im Gewerbegebiet Pesch 14
Cologne 50767
DE

34-AA-99 (hex) Nokia
34AA99 (base 16) Nokia
600 March Road

Kanata Ontario K2K 2E6
CA

D8-05-2E (hex) Skyviia Corporation
D8052E (base 16) Skyviia Corporation
No. 10-1, Lixing
1st Rd., Science Park,
Hsinchu City 300
TW

80-94-6C (hex) TOKYO RADAR CORPORATION
80946C (base 16) TOKYO RADAR CORPORATION
15-7 Nishikubo-cho
Hodogaya-ku, Yokohama-shi Kanagawa 240-0022
JP

30-6E-5C (hex) Validus Technologies
306E5C (base 16) Validus Technologies
420 North Main Street
East Peoria Illinois 61611
US

C8-94-D2 (hex) Jiangsu Datang Electronic Products Co., Ltd
C894D2 (base 16) Jiangsu Datang Electronic Products Co., Ltd
NO.20
Nanjing Jiangsu 211800
CN

C8-A6-20 (hex) Nebula, Inc
C8A620 (base 16) Nebula, Inc
215 Castro St
Mountain View CA 94041
US

FC-94-6C (hex) UBIVELOX
FC946C (base 16) UBIVELOX
#1301 KOLONG Digital Villent 222-7 Guro-dong Guro-gu
SEOUL 152-777
KR

40-7B-1B (hex) Mettle Networks Inc.
407B1B (base 16) Mettle Networks Inc.
111 N. Market St STE 300
San Jose CA 95113
US

40-D5-59 (hex) MICRO S.E.R.I.
40D559

(base 16) MICRO S.E.R.I.
24, rue Henri FARMAN
TREMBLAY EN FRANCE Ile de France 93290
FR

30-6C-BE (hex) Skymotion Technology (HK) Limited
306CBE (base 16) Skymotion Technology (HK) Limited
Unit 2603, 26/F, Metropole Square,
852
HK

18-38-25 (hex) Wuhan Lingjiu High-tech Co.,Ltd.
183825 (base 16) Wuhan Lingjiu High-tech Co.,Ltd.
No.718
Wuhan Hubei 430074
CN

7C-4B-78 (hex) Red Sun Synthesis Pte Ltd
7C4B78 (base 16) Red Sun Synthesis Pte Ltd
639, #11-544
510539
SG

64-A0-E7 (hex) Cisco Systems, Inc
64A0E7 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

64-4D-70 (hex) dSPACE GmbH
644D70 (base 16) dSPACE GmbH
Rathenaustraße 26
Paderborn 33102
DE

D0-CF-5E (hex) Energy Micro AS
D0CF5E (base 16) Energy Micro AS
Sandakerveien 118
Oslo N-0484
NO

DC-C1-01 (hex) SOLiD Technologies, Inc.
DCC101 (base 16) SOLiD Technologies,
Inc.
9th Floor, SOLiD Space, Pangyoyeok-ro 220
Seongnam-si Gyeonggi-do 463-400
KR

18-03-FA (hex) IBT Interfaces
1803FA (base 16) IBT Interfaces
Im Taubhaus 19
Roedermark Hessen 63322
DE

04-6D-42 (hex) Bryston Ltd.
046D42 (base 16) Bryston Ltd.
P.O. Box 2170
Peterborough Ontario K9J 7Y4
CA

D8-E7-43 (hex) Wush, Inc
D8E743 (base 16) Wush, Inc
17F.No 268, Liancheng Rd., Zhonghe District
New Taipei City 235
TW

94-E0-D0 (hex) HealthStream Taiwan Inc.
94E0D0 (base 16) HealthStream Taiwan Inc.
16-3, Zichiang 1st Road
Jhongli, Taoyuan county 32063
TW

DC-F8-58 (hex) Lorent Networks, Inc.
DCF858 (base 16) Lorent Networks, Inc.
Third Floor, Technology Complex, HAO Science Park
Foshan Guangdong Province 528200
CN

94-0B-2D (hex) NetView Technologies(Shenzhen) Co., Ltd
940B2D (base 16) NetView Technologies(Shenzhen) Co., Ltd
RM2902,East Tower,
Nanshan Software Park
Shenzhen Guangdong 518052
CN

80-3F-5D (hex) Winstars Technology Ltd
803F5D (base 16) Winstars Technology Ltd
Block4,Taisong Industrial Park, DaLang Street, LongHua Town , Bao'an District
Shenzhen Guangdong 518109
CN

40-BF-17 (hex) Digistar Telecom. SA
40BF17 (base 16) Digistar Telecom. SA
Av. Theodomiro Porto da Fonseca, 3101
Sao Leopoldo RS 9302080
BR

78-07-38 (hex) Z.U.K. Elzab S.A.
780738 (base 16) Z.U.K. Elzab S.A.
ul. Kruczkowskiego 39
Zabrze 41-813
PL

20-37-BC (hex) Kuipers Electronic Engineering BV
2037BC (base 16) Kuipers Electronic Engineering BV
Houtkopersstraat 6
Zwijndrecht Zuid-Holland 3334 KD
NL

80-60-07 (hex) RIM
806007 (base 16) RIM
Phillip Street
Waterloo Ontario N2L 3W8
CA

04-D7-83 (hex) Y&H E&C Co.,LTD.
04D783 (base 16) Y&H E&C Co.,LTD.
1501 Daerung Technotown 224-5
Anyang-city Gyeonggi-do 431-062
KR

88-6B-76
(hex) CHINA HOPEFUL GROUP HOPEFUL ELECTRIC CO.,LTD
886B76 (base 16) CHINA HOPEFUL GROUP HOPEFUL ELECTRIC CO.,LTD
Shunde District of Foshan City, Guangdong Province, Guangxi Rong Ronggui Town Road, No. 148
Foshan GuangDong 528305
CN

78-F7-D0 (hex) Silverbrook Research
78F7D0 (base 16) Silverbrook Research
3 Montague Street
Balmain New South Wales 2041
AU

20-76-00 (hex) Actiontec Electronics, Inc
207600 (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

F0-4B-6A (hex) Scientific Production Association Siberian Arsenal, Ltd.
F04B6A (base 16) Scientific Production Association Siberian Arsenal, Ltd.
Bld.8A, Gorskiy Microdistrict
Novosibirsk 630073

RU

64-AE-0C (hex) Cisco Systems, Inc
64AE0C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E8-DA-96 (hex) Zhuhai Tianrui Electrical Power Tech. Co., Ltd.
E8DA96 (base
16) Zhuhai Tianrui Electrical Power Tech. Co., Ltd.
Minying Technology Zone, 10# Keji 1 Road, Gangwan Main Road, Tangjia
Zhuhai Guangdong 519085
CN

F0-13-C3 (hex) SHENZHEN FENDA TECHNOLOGY CO., LTD
F013C3 (base 16) SHENZHEN FENDA TECHNOLOGY CO., LTD
Fenda Hi-Tech Park, Zhoushi Road, Shiyan, Baoan
ShenZhen GuangDong 518108
CN

04-A8-2A (hex) Nokia Corporation
04A82A (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

48-9B-E2 (hex) SCI Innovations Ltd
489BE2 (base 16) SCI Innovations Ltd
16C Hurst End
Newport Pagnell Buckinghamshire MK16 9HS
GB

80-FF-A8 (hex) UNIDIS
80FFA8 (base 16) UNIDIS
4 floors(401), 144-4, Gumi-dong
Sungnam-si Gyeonggi-do 463-810
KR

B0-E5-0E (hex) NRG SYSTEMS INC
B0E50E (base 16) NRG SYSTEMS INC
PO BOX 0509
Hinesburg VT 054610509
US

48-C1-AC (hex) PLANTRONICS, INC.
48C1AC (base 16) PLANTRONICS, INC.
345 ENCINAL

STREET
SANTA CRUZ CA 95060
US

98-58-8A (hex) SYSGRATION Ltd.
98588A (base 16) SYSGRATION Ltd.
10Fl.NO.868-3.Chung Cheng Rd.
NewTaipei City 235
TW

E8-78-A1 (hex) BEOVIEW INTERCOM DOO
E878A1 (base 16) BEOVIEW INTERCOM DOO
TRESNJINOG CVETA 5/17
BELGRADE 11070
RS

CC-EF-48 (hex) Cisco Systems, Inc
CCEF48 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

24-37-EF (hex) EMC Electronic Media Communication SA
2437EF (base 16) EMC Electronic Media Communication SA
Via Cantonale 4
S. Antonino Ticino 6592
CH

94-31-9B (hex) Alphatronics BV
94319B (base 16) Alphatronics BV
Watergoorweg 71
NIJKERK Gld 3861 MA
NL

E4-35-FB (hex) Sabre Technology (Hull) Ltd
E435FB (base 16) Sabre Technology (Hull) Ltd
3a Newlands Science Park
Hull East Yorkshire HU6 7TQ
GB

C8-3B-45 (hex) JRI
C83B45 (base 16) JRI
16 rue louis rameau
Bezons
Cedex 95872
FR

C0-58-A7 (hex) Pico Systems Co., Ltd.

C058A7 (base 16) Pico Systems Co., Ltd.
332-7 Kouya
Matsudo Chiba pref. 270-0017
JP

EC-3F-05 (hex) Institute 706, The Second Academy China Aerospace Science & Industry Corp
EC3F05 (base 16) Institute 706, The Second Academy China Aerospace Science & Industry Corp
YongDing Road ,HaiDian District.BeiJing ,No.51
BeiJing 100854
CN

EC-62-64 (hex) Global411 Internet Services, LLC
EC6264 (base 16) Global411 Internet Services, LLC
10400 W Overland Rd #371
Boise Idaho 83709
US

00-F0-51 (hex) KWB Gmbh
00F051 (base 16) KWB Gmbh
Industriestraße 235
St. Margarethen Styria 8321
AT

00-E1-75 (hex) AK-Systems Ltd
00E175 (base 16) AK-Systems Ltd
off 62, 27/29 Pavlovskaya str.
Moscow 115093
RU

CC-50-1C (hex) KVH Industries, Inc.
CC501C (base 16) KVH Industries, Inc.
50 Enterprise Center
Middletown RI 02842-5279
US

28-B0-CC
(hex) Xenya d.o.o.
28B0CC (base 16) Xenya d.o.o.
Celovska cesta 172
Ljubljana 1000
SI

20-5B-5E (hex) Shenzhen Wonhe Technology Co., Ltd
205B5E (base 16) Shenzhen Wonhe Technology Co., Ltd
South Block 10th floor, Yuanxing Building, No. 1
Shenzhen Guangdong 518057
CN

DC-2E-6A (hex) HCT. Co., Ltd.
DC2E6A (base 16) HCT. Co., Ltd.
105-1, Jangam-ri, Majang-myen
Icheon-si Gyeonggi-do 467-811
KR

14-8A-70 (hex) ADS GmbH
148A70 (base 16) ADS GmbH
Im Rohnweiher 39
Lohmar Germany D-53797
DE

54-94-78 (hex) Silvershore Technology Partners
549478 (base 16) Silvershore Technology Partners
800 High Street
Palo Alto CA 94301
US

10-71-F9 (hex) Cloud Telecomputers, LLC
1071F9 (base 16) Cloud Telecomputers, LLC
1032 Elwell Court
Palo Alto CA 94303
US

B8-62-1F (hex) Cisco Systems, Inc
B8621F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San
Jose CA 94568
US

FC-E8-92 (hex) Hangzhou Lancable Technology Co.,Ltd
FCE892 (base 16) Hangzhou Lancable Technology Co.,Ltd
Zone A,Floor 16,Zhongcai Building,68#,Tonghe Road,Binjiang District,
Hangzhou Zhejiang 310051
CN

D4-53-AF (hex) VIGO System S.A.
D453AF (base 16) VIGO System S.A.
129/133 Poznanska str
Ozarow Mazowiecki Mazowieckie 05-850
PL

B4-D8-DE (hex) iota Computing, Inc.
B4D8DE (base 16) iota Computing, Inc.
2275 East Bayshore Road
Palo Alto CA 94303-3222
US

C8-90-3E (hex) Pakton Technologies
C8903E (base 16) Pakton Technologies
1 Helium St
Narangba QLD 4504
AU

54-CD-A7 (hex) Fujian Shenzhou Electronic Co.,Ltd
54CDA7 (base 16) Fujian Shenzhou Electronic Co.,Ltd
Quanzhou Economical&Technological Development Zone,Quanzhou,Fujian,China
QUANZHOU FUJIAN 362005
CN

18-AD-4D (hex) Polostar Technology Corporation
18AD4D (base 16) Polostar Technology
Corporation
2F, No.351, Yangguang St.
Taipei 11491
TW

94-C6-EB (hex) NOVA electronics, Inc.
94C6EB (base 16) NOVA electronics, Inc.
Grand Axe Bldg. 3F.
Shibuya-ku Tokyo 151-0064
JP

E4-4E-18 (hex) Gardasoft VisionLimited
E44E18 (base 16) Gardasoft VisionLimited
Units 1 and 2, Castle Acres
Cambridge CB23 4JQ
GB

20-46-A1 (hex) VECOW Co., Ltd
2046A1 (base 16) VECOW Co., Ltd
7F., No.105, Zhongcheng Rd., Tucheng Dist.,
New Taipei City 23674
TW

FC-01-CD (hex) FUNDACION TEKNIKER
FC01CD (base 16) FUNDACION TEKNIKER
Avenida Otaola, 20
Eibar Gipuzkoa 20600
ES

A0-6E-50 (hex) Nanotek Elektronik Sistemler Ltd. Sti.
A06E50 (base 16) Nanotek Elektronik Sistemler Ltd. Sti.
Ivedik Organize Sanayi
Ankara 06370

TR

84-24-8D (hex) Zebra Technologies Inc
84248D (base 16) Zebra Technologies Inc
475 Half Day Road
Lincolnshire IL 60069
US

9C-8B-F1 (hex) The
Warehouse Limited
9C8BF1 (base 16) The Warehouse Limited
Suite 601, City Point, 1600 Zhonghua Road, Huangpu District
Shanghai 200010
CN

00-B3-38 (hex) Kontron Asia Pacific Design Sdn. Bhd
00B338 (base 16) Kontron Asia Pacific Design Sdn. Bhd
Plot 554, Lorong Perusahaan 4
Prai Free Trade Zone Prai, Penang 13600
MY

B8-28-8B (hex) Parker Hannifin Manufacturing (UK) Ltd
B8288B (base 16) Parker Hannifin Manufacturing (UK) Ltd
Condition Monitoring Centre
Thetford Norfolk IP24 1HP
GB

90-D1-1B (hex) Palomar Medical Technologies
90D11B (base 16) Palomar Medical Technologies
15 Network Drive
Burlington MA 01803
US

EC-BD-09 (hex) FUSION Electronics Ltd
ECBD09 (base 16) FUSION Electronics Ltd
PO Box 137 - 142
Auckland 1151
NZ

94-46-96 (hex) BaudTec Corporation
944696 (base 16) BaudTec Corporation
12F, No.181, Sec.1.Tatung Rd.
Hsi-chih Taipei 221
TW

34-A5-5D
(hex) TECHNOSOFT INTERNATIONAL SRL
34A55D (base 16) TECHNOSOFT INTERNATIONAL SRL

RO6640904
Bucuresti - Sector 6 061992
RO

4C-77-4F (hex) Embedded Wireless Labs
4C774F (base 16) Embedded Wireless Labs
702 Level 7 Uptown 2 No.2
Petaling Jaya Selangor 47400
MY

D0-C2-82 (hex) Cisco Systems, Inc
D0C282 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

14-7D-B3 (hex) JOA TELECOM.CO.,LTD
147DB3 (base 16) JOA TELECOM.CO.,LTD
1007,Sicox tower,513-14,Sangdaewon-dong,Jungwon-gu
Seongnam-si Gyeonggi-do 462-806
KR

3C-27-63 (hex) SLE quality engineering GmbH & Co. KG
3C2763 (base 16) SLE quality engineering GmbH & Co. KG
Josef-Buchinger-Str. 9
Grafenau Bavaria 94481
DE

B0-F1-BC (hex) Dhemax Ingenieros Ltda
B0F1BC (base 16) Dhemax Ingenieros Ltda
Siete Oriente 1234
Vina del Mar Region de Valparaiso 2530954
CL

54-84-7B (hex) Digital Devices
GmbH
54847B (base 16) Digital Devices GmbH
Moewestr 45 A
Muenchen 81827
DE

C8-32-32 (hex) Hunting Innova
C83232 (base 16) Hunting Innova
8383 N Sam Houston Pkwy West
Houston Texas 77064
US

F0-02-2B (hex) Chrontel

F0022B (base 16) Chrontel
2210 OToole Ave., Suite 100
San Jose CA 95131
US

84-3F-4E (hex) Tri-Tech Manufacturing, Inc.
843F4E (base 16) Tri-Tech Manufacturing, Inc.
333 Turbine Drive
Rapid City SD 57703
US

34-BC-A6 (hex) Beijing Ding Qing Technology, Ltd.
34BCA6 (base 16) Beijing Ding Qing Technology, Ltd.
218 Han Tai Hua Office Building, 13 Huan Yuan Lu,
Haidian District Beijing 100083
CN

58-35-D9 (hex) Cisco Systems, Inc
5835D9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

64-D9-12 (hex) Solidica, Inc.
64D912 (base 16) Solidica, Inc.
5840 Interface Drive
Ann Arbor Michigan 48103
US

C4-7B-2F
(hex) Beijing JoinHope Image Technology Ltd.
C47B2F (base 16) Beijing JoinHope Image Technology Ltd.
624 Room .Automation Building.95# Zhong Guancun East Road.Haidian District
Beijing 100190
CN

70-4A-AE (hex) Xstream Flow (Pty) Ltd
704AAE (base 16) Xstream Flow (Pty) Ltd
Room 123, Building 16, CSIR campus
Pretoria Gauteng 0184
ZA

40-B3-FC (hex) Logital Co. Limited
40B3FC (base 16) Logital Co. Limited
Rm 901-902, 9/F, Nathan Centre,
Kowloon
HK

50-8A-CB (hex) SHENZHEN MAXMADE TECHNOLOGY CO., LTD.
508ACB (base 16) SHENZHEN MAXMADE TECHNOLOGY CO., LTD.
Building 3,No.5 Fuqiao Industrial Estate,
Shenzhen Guangdong 518103
CN

80-2E-14 (hex) azeti Networks AG
802E14 (base 16) azeti Networks AG
Am Brambusch 1a
Luenen NRW 44536
DE

D4-C1-FC (hex) Nokia Corporation
D4C1FC (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

3C-D1-6E (hex) Telepower
Communication Co., Ltd
3CD16E (base 16) Telepower Communication Co., Ltd
5/F,Zonghe Building, Hantian Technology Town,Guiping RD,Nanhai District,F
Foshan City Guangdong 528251
CN

FC-2E-2D (hex) Lorom Industrial Co.LTD.
FC2E2D (base 16) Lorom Industrial Co.LTD.
F1.13,Rm.2,No.78,Sec.2,An-HoRd.
Taipei 106
TW

40-04-0C (hex) A&T
40040C (base 16) A&T
#411, Will Town, 402-3
Bucheon-Si Gyeonggi-Do 420-814
KR

DC-3C-84 (hex) Ticom Geomatics, Inc.
DC3C84 (base 16) Ticom Geomatics, Inc.
9130 Jollyville Rd. Ste. 300
Austin Texas 78759
US

D0-13-1E (hex) Sunrex Technology Corp
D0131E (base 16) Sunrex Technology Corp
No. 188-1,Chung Cheng Road.,Ta Ya Shiang
Taichung 428
TW

7C-4A-82 (hex) Portsmith LLC
7C4A82 (base 16) Portsmith LLC
850 E. Franklin Road
Meridian ID 83642
US

2C-00-33 (hex) EControls, LLC
2C0033 (base 16) EControls, LLC
5757 Farinon
Dr
San Antonio TX 78249
US

AC-19-9F (hex) SUNGROW POWER SUPPLY CO.,LTD.
AC199F (base 16) SUNGROW POWER SUPPLY CO.,LTD.
NO.2 Tianhu Road, New and High Technology Industrial Development Zone
Hefei Anhui 230088
CN

00-FC-70 (hex) Intrepid Control Systems, Inc.
00FC70 (base 16) Intrepid Control Systems, Inc.
1850 Research Drive
Troy MI 48083
US

70-3A-D8 (hex) Shenzhen Afoundry Electronic Co., Ltd
703AD8 (base 16) Shenzhen Afoundry Electronic Co., Ltd
201, A Building, Bole Industrial Zone, Bantian, Longgang District
Shenzhen Guangdong 518129
CN

88-F0-77 (hex) Cisco Systems, Inc
88F077 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

B0-99-28 (hex) FUJITSU LIMITED
B09928 (base 16) FUJITSU LIMITED
403, Kosugi-cho 1-chome, Nakahara-ku
Kawasaki Kanagawa 211-0063
JP

04-E1-C8 (hex) IMS Soluções em Energia Ltda.
04E1C8 (base 16) IMS Soluções em
Energia Ltda.
Av. Bernardino Silveira Pastoriza, 720

Porto Alegre RS 91160-310
BR

AC-5E-8C (hex) Utillink
AC5E8C (base 16) Utillink
817 Woolim Lions Valley 1, 311-3 Sangdaewon-dong Jungwon-gu
Seongnam-si Gyeonggi-do 462160
KR

58-75-21 (hex) CJSC RTSoft
587521 (base 16) CJSC RTSoft
Nikitinskaya str., 3
Moscow 105037
RU

94-8F-EE (hex) Verizon Telematics
948FEE (base 16) Verizon Telematics
2002 Summit Blvd
Atlanta GA 30319
US

50-D6-D7 (hex) Takahata Precision
50D6D7 (base 16) Takahata Precision
4-17-1 Suniyoshi
Kofu 400-0851
JP

94-E8-48 (hex) FYLDE MICRO LTD
94E848 (base 16) FYLDE MICRO LTD
8 AVROE CRESCENT
BLACKPOOL LANCASHIRE FY4 2DP
GB

C4-0F-09 (hex) Hermes electronic GmbH
C40F09 (base 16) Hermes electronic GmbH
Am Handwerkerpark 1
Essen NRW 45309
DE

48-F4-7D (hex) TechVision Holding Internation Limited
48F47D (base 16) TechVision
Holding Internation Limited
Offshore Incorporations Centre
Road Town Tortola VG1110
VG

F0-81-AF (hex) IRZ AUTOMATION TECHNOLOGIES LTD
F081AF (base 16) IRZ AUTOMATION TECHNOLOGIES LTD

Unit 9-10 27/F Seapower Tower
Kowloon
HK

70-14-04 (hex) Limited Liability Company
701404 (base 16) Limited Liability Company
I.Yakovleva St., 1
Cheboksary Chuvash Republic 428003
RU

1C-35-F1 (hex) NEW Lift Neue Elektronische Wege Steuerungsbau GmbH
1C35F1 (base 16) NEW Lift Neue Elektronische Wege Steuerungsbau GmbH
Lochhamer Schlag 8
Graefelfing Bavaria 82166
DE

F0-AE-51 (hex) Xi3 Corp
F0AE51 (base 16) Xi3 Corp
299 S. Main St.
Salt Lake City UT 84111
US

B8-0B-9D (hex) ROPEX Industrie-Elektronik GmbH
B80B9D (base 16) ROPEX Industrie-Elektronik GmbH
Adolf-Heim-Str. 4
Bietigheim-Bissingen Baden Wuerttemberg 74321
DE

50-70-E5 (hex) He Shan World Fair Electronics Technology
Limited
5070E5 (base 16) He Shan World Fair Electronics Technology Limited
New Material Base, Gonghe Town
Jiangmen Guangdong 529728
CN

80-22-75 (hex) Beijing Beny Wave Technology Co Ltd
802275 (base 16) Beijing Beny Wave Technology Co Ltd
No.55, Jiachuang Road
Tongzhou District Beijing 101111
CN

98-30-00 (hex) Beijing KEMACOM Technologies Co., Ltd.
983000 (base 16) Beijing KEMACOM Technologies Co., Ltd.
Room 208, Building 6, No.50, Xi San Huan Bei Road
Beijing 100044
CN

90-CF-15 (hex) Nokia Corporation

90CF15 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

94-8B-03 (hex) EAGET Innovation and Technology Co., Ltd.
948B03 (base 16) EAGET Innovation and Technology Co., Ltd.
3/F, Building 4, Lianchuang Technology Park,Buji Town,
Shenzhen Guangdong 518112
CN

14-A9-E3 (hex) MST CORPORATION
14A9E3 (base 16) MST CORPORATION
4th Floor Lawford House
London
England N3 1 RL
GB

5C-0C-BB (hex) CELIZION Inc.
5C0CBB (base 16) CELIZION Inc.
#206 Lordland EZ Tower, GuMi-Dong 153 BunDang-Gu
SeongNam-Si GyeongGi-Do 463-870
KR

18-E2-88 (hex) STT Condigi
18E288 (base 16) STT Condigi
Agnesfridsvagen 113 A
Malmö Skåne 21237
SE

B4-35-F7 (hex) Zhejiang Pearmain Electronics Co.ltd.
B435F7 (base 16) Zhejiang Pearmain Electronics Co.ltd.
4F Yitai Mansion, 76 Gucui Road,
Hangzhou Zhejiang 310012
CN

98-66-EA (hex) Industrial Control Communications, Inc.
9866EA (base 16) Industrial Control Communications, Inc.
1600 Aspen Commons
Middleton WI 53562
US

24-C8-6E (hex) Chaney Instrument Co.
24C86E (base 16) Chaney Instrument Co.
965 Wells Street
Lake Geneva WI 53147
US

C4-24-2E (hex) Galvanic Applied Sciences Inc
C4242E (base 16) Galvanic Applied Sciences Inc
7000 Fisher Road SE
Calgary Alberta T2H 0W3
CA

F8-EA-0A
(hex) Dipl.-Math. Michael Rauch
F8EA0A (base 16) Dipl.-Math. Michael Rauch
Kapellenstraße 31
Bretten BaWü 75015
DE

80-34-57 (hex) OT Systems Limited
803457 (base 16) OT Systems Limited
Unit 1023, 10/F., Landmark North,
Sheung Shui, N. T.
HK

CC-F3-A5 (hex) Chi Mei Communication Systems, Inc
CCF3A5 (base 16) Chi Mei Communication Systems, Inc
No.4
Tucheng City Taipei County 23678
TW

30-61-18 (hex) Paradom Inc.
306118 (base 16) Paradom Inc.
8F, N0. 178, Sec-2, Gongdaowu Rd.
Hsinchu City 300
TW

4C-73-67 (hex) Genius Bytes Software Solutions GmbH
4C7367 (base 16) Genius Bytes Software Solutions GmbH
Merianstraße 30
Bochum NRW 44801
DE

38-31-AC (hex) WEG
3831AC (base 16) WEG
Av. Pref. Waldemar Grubba, 3000
Jaraguá do Sul Santa Catarina 89256-900
BR

58-4C-19 (hex) Chongqing Guohong Technology Development Company Limited
584C19 (base 16) Chongqing
Guohong Technology Development Company Limited
Rongzhi Building, Science & Technology Venture Center,
Chongqing 401336

CN

64-69-BC (hex) Hytera Communications Co .,ltd
6469BC (base 16) Hytera Communications Co .,ltd
HYT Tower ,Hi-Tech Industrial Park North,Nanshan District,
Shenzhen Guangdong 518057
CN

B4-F3-23 (hex) PETATEL INC.
B4F323 (base 16) PETATEL INC.
#322 THE O VILLE 720-25, YEOKSAM-DONG
GANGNAM-GU SEOUL 135080
KR

14-C2-1D (hex) Sabtech Industries
14C21D (base 16) Sabtech Industries
23231 La Palma Ave
Yorba Linda Ca. 92887-4788
US

40-F4-EC (hex) Cisco Systems, Inc
40F4EC (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

14-B7-3D (hex) ARCHEAN Technologies
14B73D (base 16) ARCHEAN Technologies
1899 avenue d'Italie
MONTAUBAN 82000
FR

94-8D-50 (hex) Beamex Oy Ab
948D50 (base 16) Beamex Oy Ab
Ristisuonraitti 10
Pietarsaari
FI-68600
FI

A4-33-D1 (hex) Fibrlink Communications Co.,Ltd.
A433D1 (base 16) Fibrlink Communications Co.,Ltd.
28F Ages Wealth World, No.1 Hangfeng Road
Beijing 100070
CN

FC-10-BD (hex) Control Sistematizado S.A.
FC10BD (base 16) Control Sistematizado S.A.
Cra 43 N 31 52

Medellin Antioquia 10101
CO

F0-C2-7C (hex) Mianyang Netop Telecom Equipment Co.,Ltd.
F0C27C (base 16) Mianyang Netop Telecom Equipment Co.,Ltd.
No.111,East section of Puming South Road,
Mianyang City Sichuan Province, 621000
CN

28-34-10 (hex) Enigma Diagnostics Limited
283410 (base 16) Enigma Diagnostics Limited
Building 224
DSTL Porton Down Salisbury SP4 0JQ
GB

0C-E8-2F (hex) Bonfiglioli Vectron GmbH
0CE82F (base 16) Bonfiglioli Vectron GmbH
Europark Fichtenhain B6
Krefeld NRW 47807
DE

84-D9-C8 (hex) Unipattern Co.,
84D9C8 (base 16) Unipattern Co.,
16F., No.30., Beiping
E. Rd., Zhongzheng Dist.,
Taipei 100
TW

94-AA-B8 (hex) Joview(Beijing) Technology Co. Ltd.
94AAB8 (base 16) Joview(Beijing) Technology Co. Ltd.
Room 302, South Building
Beijing 100081
CN

28-F3-58 (hex) 2C - Trifonov & Co
28F358 (base 16) 2C - Trifonov & Co
133, Tsarigradsko Shose Blvd, BIZ IZOT,
Sofia 1784
BG

30-1A-28 (hex) Mako Networks Ltd
301A28 (base 16) Mako Networks Ltd
1355 North Maclean Blvd
Elgin IL 60123
US

C8-84-39 (hex) Sunrise Technologies
C88439 (base 16) Sunrise Technologies

54 Commercial Street
Raynham MA 02767
US

EC-7D-9D (hex) CPI
EC7D9D (base 16) CPI
3222 Phoenixville Pike Suite 200
Malvern PA 19355
US

C8-1E-8E (hex) ADV Security (S) Pte Ltd
C81E8E (base 16) ADV Security (S) Pte Ltd
56 Dunlop Street
209386
SG

F0-BF-97 (hex) Sony Corporation
F0BF97 (base 16) Sony Corporation
Gotenyama Tec 5-1-2
Tokyo
Shinagawa-ku 141-0001
JP

C4-4A-D0 (hex) FIREFLIES SYSTEMS
C44AD0 (base 16) FIREFLIES SYSTEMS
3 CHEMIN DU PRE CARRE
MEYLAN 38240
FR

88-E0-A0 (hex) Shenzhen VisionSTOR Technologies Co., Ltd
88E0A0 (base 16) Shenzhen VisionSTOR Technologies Co., Ltd
12/F, East Tower,Nanshan Software Park
Shenzhen Guangdong 518000
CN

90-EA-60 (hex) SPI Lasers Ltd
90EA60 (base 16) SPI Lasers Ltd
6 wellington Park
Southampton Hampshire S0302QU
GB

14-F0-C5 (hex) Xtremio Ltd.
14F0C5 (base 16) Xtremio Ltd.
POB 5246
Herzelyia 46152
IL

E8-C2-29 (hex) H-Displays (MSC) Bhd

E8C229 (base 16) H-Displays (MSC) Bhd
No. 31 & 32, Jalan Gangsa Dua
Johor Bahru 81700
MY

3C-A7-2B (hex) MRV Communications (Networks) LTD
3CA72B (base 16) MRV Communications (Networks) LTD
P.O Box 614
Yokneam 20692
IL

28-51-32 (hex) Shenzhen Prayfly Technology Co.,Ltd
285132 (base 16) Shenzhen
Prayfly Technology Co.,Ltd
16F B International Chamber of Commerce Building
Shenzhen Guangdong Province 518048
CN

E4-2F-F6 (hex) Unicore communication Inc.
E42FF6 (base 16) Unicore communication Inc.
Rm.312 Building 2 IRICO, No.11St.4,Shangdi, Haidian District,
Beijing 100085
CN

A8-87-92 (hex) Broadband Antenna Tracking Systems
A88792 (base 16) Broadband Antenna Tracking Systems
8902 Vincennes Circle, Suite D-2
Indianapolis IN 46268
US

04-E6-62 (hex) Acroname Inc.
04E662 (base 16) Acroname Inc.
4822 Sterling Drive
Boulder CO 80301-2350
US

F8-7B-8C (hex) Amped Wireless
F87B8C (base 16) Amped Wireless
13089 Peyton Dr. #C307
Chino Hills CA 91709
US

24-1A-8C (hex) Squarehead Technology AS
241A8C (base 16) Squarehead Technology AS
PO Box 13 Nydalen
Oslo NO-0410
NO

D4-4F-80 (hex) Kemper Digital GmbH
D44F80 (base 16) Kemper Digital GmbH
Koenigswall
16-18
Recklinghausen North-Rhine-Westphalia 45657
DE

A4-1B-C0 (hex) Fastec Imaging Corporation
A41BC0 (base 16) Fastec Imaging Corporation
17150 Via Del Campo
San Diego California 92127
US

20-5B-2A (hex) Private
205B2A (base 16) Private

F4-03-21 (hex) BeNeXt B.V.
F40321 (base 16) BeNeXt B.V.
Ter Gouwstraat 3
Amsterdam NH 1093JX
NL

A0-71-A9 (hex) Nokia Corporation
A071A9 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

A4-E3-2E (hex) Silicon & Software Systems Ltd.
A4E32E (base 16) Silicon & Software Systems Ltd.
South County Business Park
Leopardstown Dublin 18
IE

5C-BD-9E (hex) HONGKONG MIRACLE EAGLE TECHNOLOGY(GROUP) LIMITED
5CBD9E (base 16) HONGKONG MIRACLE EAGLE TECHNOLOGY(GROUP) LIMITED
FLAT RM 2103, EASEY COMMERCIAL BLDG,253-261 HENNESSY RD,
WANCHAI 999077
HK

08-E6-72 (hex) JEBSEE ELECTRONICS CO.,LTD.
08E672 (base
16) JEBSEE ELECTRONICS CO.,LTD.
24-3, SIN LE ROAD,
TAINAN 70268
TW

B8-E5-89 (hex) Payter BV

B8E589 (base 16) Payter BV
Rozenlaan 115
Rotterdam Zuid-Holland 3051 LP
NL

64-DC-01 (hex) Static Systems Group PLC
64DC01 (base 16) Static Systems Group PLC
Heathmill Road
Wolverhampton West Midlands WV5 8AN
GB

60-76-88 (hex) Velodyne
607688 (base 16) Velodyne
345 Digital Drive
Morgan Hill CA 95037
US

C8-C1-26 (hex) ZPM Industria e Comercio Ltda
C8C126 (base 16) ZPM Industria e Comercio Ltda
Rua Araguaia, 175
Canoas RS 92410-000
BR

64-DE-1C (hex) Kingnetic Pte Ltd
64DE1C (base 16) Kingnetic Pte Ltd
47 Kaki Bukit Place
416225
SG

44-68-AB (hex) JUIN COMPANY, LIMITED
4468AB (base 16) JUIN COMPANY, LIMITED
2FL, 1075-1, Wonpyeong-Dong
Gumi City Gyeongsangbuk-Do 730-010
KR

F8-10-37 (hex) Atopia Systems, LP
F81037 (base 16) Atopia Systems,
LP
681 N. Plano Road
Richardson TX 75082
US

78-A6-83 (hex) Precidata
78A683 (base 16) Precidata
CP 672
2002 NE 2002
CH

FC-1F-C0 (hex) EURECAM
FC1FC0 (base 16) EURECAM
BAT 9 - Miniparc
LES ULIS 91940
FR

A8-62-A2 (hex) JIWUMEDIA CO., LTD.
A862A2 (base 16) JIWUMEDIA CO., LTD.
#902, Daerug Techno Town 13'th, 664
Geumcheon-gu Seoul 153-803
KR

98-4E-97 (hex) Starlight Marketing (H. K.) Ltd.
984E97 (base 16) Starlight Marketing (H. K.) Ltd.
5/F., Shing Dao Industrial Building,

HK

78-CD-8E (hex) SMC Networks Inc
78CD8E (base 16) SMC Networks Inc
20 Mason
Irvine CA 92618
US

2C-80-65 (hex) HARTING Inc. of North America
2C8065 (base 16) HARTING Inc. of North America
1370 Bowes Road
Elgin Illinois 60123
US

3C-C0-C6 (hex) d&b audiotechnik GmbH
3CC0C6 (base 16) d&b audiotechnik GmbH
Eugen Adolff Str 134
Backnang Baden Wuerttemberg
71522
DE

F0-25-72 (hex) Cisco Systems, Inc
F02572 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

04-FF-51 (hex) NOVAMEDIA INNOVISION SP. Z O.O.
04FF51 (base 16) NOVAMEDIA INNOVISION SP. Z O.O.
WODNA 7
KALISZ WIELKOPOLSKA 62-800
PL

4C-B4-EA (hex) HRD (S) PTE., LTD.
4CB4EA (base 16) HRD (S) PTE., LTD.
Lot 7, Block 9, Phase 1, Cavite Eco-Zone,
Rosario Cavite 4106
PH

D4-4C-24 (hex) Vuppalamritha Magnetic Components LTD
D44C24 (base 16) Vuppalamritha Magnetic Components LTD
3rd Floor, 307 ,My Home Ashoka Chambers,S.P Road,
Secunderabad AndhraPradesh 500003
IN

80-91-C0 (hex) AgileMesh, Inc.
8091C0 (base 16) AgileMesh, Inc.
1671 International Pkwy
Richardson TX 75081
US

F8-C6-78 (hex) Carefusion
F8C678 (base 16) Carefusion
10020 Pacific Mesa Blvd
San Diego CA 92121
US

6C-AB-4D (hex) Digital Payment Technologies
6CAB4D
(base 16) Digital Payment Technologies
4105 Grandview Hwy
Burnaby BC V5C 6B4
CA

2C-B0-DF (hex) Soliton Technologies Pvt Ltd
2CB0DF (base 16) Soliton Technologies Pvt Ltd
683, 15th Cross
Bangalore Karnataka 560 078
IN

EC-E5-55 (hex) Hirschmann Automation
ECE555 (base 16) Hirschmann Automation
Stuttgarter Straße 45-51
Neckartenzlingen Baden-Württemberg 72654
DE

58-F9-8E (hex) SECUDOS GmbH
58F98E (base 16) SECUDOS GmbH
Rhenus-Platz 2
Holzwickede NRW 59439

DE

08-4E-BF (hex) Sumitomo Electric Industries, Ltd
084EBF (base 16) Sumitomo Electric Industries, Ltd
1-1-3, Shimaya, Konohana-ku
Osaka 554-0024
JP

AC-02-CF (hex) RW Tecnologia Industria e Comercio Ltda
AC02CF (base 16) RW Tecnologia Industria e Comercio Ltda
Centro Empresarial Paulo Frederico de Toledo, 80 A
Santa Rita do Sapucai Minas Gerais 37540000
BR

B4-C4-4E (hex) VXL eTech Pvt Ltd
B4C44E
(base 16) VXL eTech Pvt Ltd
#91, 11th Main, Begur Main Road
Bangalore Karnataka 560068
IN

70-7E-DE (hex) NASTEC LTD.
707EDE (base 16) NASTEC LTD.
111-D, Krasnorechenskaya str.
Khabarovsk 680006
RU

E0-5F-B9 (hex) Cisco Systems, Inc
E05FB9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

BC-67-84 (hex) Environics Oy
BC6784 (base 16) Environics Oy
Graanintie 5
Mikkeli 50190
FI

68-DC-E8 (hex) PacketStorm Communications
68DCE8 (base 16) PacketStorm Communications
20 Meridian Rd
Eatontown NJ 07724
US

48-8E-42 (hex) DIGALOG GmbH
488E42 (base 16) DIGALOG GmbH
Wattstraße 11-13

Berlin D-13355
DE

B4-74-9F (hex) ASKEY COMPUTER CORP
B4749F (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

7C-4A-A8 (hex) MindTree Wireless PVT Ltd
7C4AA8 (base 16) MindTree Wireless PVT Ltd
LGF,
Phase III, Mindtree West Campus,
Bangalore Karnataka 560 059
IN

E0-14-3E (hex) Modoosis Inc.
E0143E (base 16) Modoosis Inc.
#302, Samil Bldg., 656-282
Seoul 133-110
KR

C0-7E-40 (hex) SHENZHEN XDK COMMUNICATION EQUIPMENT CO.,LTD
C07E40 (base 16) SHENZHEN XDK COMMUNICATION EQUIPMENT CO.,LTD
XDK BUILDING,NO.1 INDUSTRIAL AREA,BANTIAN,LONGGANG DISTRICT
SHENZHEN GUANGDONG 518129
CN

E4-4F-29 (hex) MA Lighting Technology GmbH
E44F29 (base 16) MA Lighting Technology GmbH
Dachdeckerstraße16
Waldbüttelbrunn Bavaria 97297
DE

D4-12-96 (hex) Anobit Technologies Ltd.
D41296 (base 16) Anobit Technologies Ltd.
8 Hasadnaot St.
Herzeliya Pituach 46728
IL

08-76-FF (hex) Thomson Telecom Belgium
0876FF (base 16) Thomson Telecom Belgium
Prins Boudewijnlaan 47
Edegem Antwerp B-2650
BE

34-9A-0D (hex) ZBD Displays Ltd
349A0D (base 16) ZBD Displays Ltd

Orchard
Lea
Windsor Berkshire SL4 4RU
GB

90-D8-52 (hex) Comtec Co., Ltd.
90D852 (base 16) Comtec Co., Ltd.
3F., No.81, Jiankang Rd.,
Zhonghe City Taipei County 23586
TW

38-01-97 (hex) TSST Global,Inc
380197 (base 16) TSST Global,Inc
14 Floor, Bldg. No. 102, Digital Empire2, 486, Sin-dong, Yeongtong-gu, Suwon-si,
Su-won Gyeonggi 443-734
KR

20-AA-25 (hex) IP-NET LLC
20AA25 (base 16) IP-NET LLC
10256 N.W. 47th St.
Sunrise FL 33351
US

1C-7C-11 (hex) EID
1C7C11 (base 16) EID
Rua Quinta dos Medronheiros
Charneca da Caparica 2820-486
PT

48-17-4C (hex) MicroPower technologies
48174C (base 16) MicroPower technologies
4225 Executive Sq.
La Jolla California 92037
US

58-8D-09 (hex) Cisco Systems, Inc
588D09 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

C0-C1-C0 (hex) Cisco-Linksys, LLC
C0C1C0 (base 16) Cisco-Linksys, LLC
121
Theory Drive
Irvine California 92612
US

90-50-7B (hex) Advanced PANMOBIL Systems GmbH & Co. KG
90507B (base 16) Advanced PANMOBIL Systems GmbH & Co. KG
Hansestraße 91
Cologne NRW 51149
DE

60-15-C7 (hex) IdaTech
6015C7 (base 16) IdaTech
63065 NE 18th St.
Bend OR 97701
US

1C-83-B0 (hex) Linked IP GmbH
1C83B0 (base 16) Linked IP GmbH
Kirchenstrasse 9
Anif / Niederalm SBG 5081
AT

A4-D1-D1 (hex) ECOtality North America
A4D1D1 (base 16) ECOtality North America
430 S 2nd Avenue
Phoenix AZ 85003
US

C4-93-13 (hex) 100fio networks technology llc
C49313 (base 16) 100fio networks technology llc
2534 crescent st. apt 3F
Astoria New york 11102
US

68-59-7F (hex) Alcatel Lucent
68597F (base 16) Alcatel Lucent
Via Energy Park, 14
Vimercate MB 20871
IT

F0-65-DD (hex) Primax Electronics Ltd.
F065DD (base 16) Primax Electronics Ltd.
669,
Ruey Kuang Road, Neihu
Taipei 114
TW

94-33-DD (hex) Taco Inc
9433DD (base 16) Taco Inc
1160 Cranston Street
Cranston RI 02920
US

E0-CF-2D (hex) Gemintek Corporation
E0CF2D (base 16) Gemintek Corporation
5F-1, No.8, Alley 30, Lane 358, Rueiguang Rd.
Taipei 114
TW

C4-EE-F5 (hex) II-VI Incorporated
C4EEF5 (base 16) II-VI Incorporated
Network Solutions,343 Daniel Zenker Dr., Suite 102
Horseheads NY 14845
US

D4-91-AF (hex) Electroacustica General Iberica, S.A.
D491AF (base 16) Electroacustica General Iberica, S.A.
Avda. Almozara, 79
Zaragoza 50003
ES

C4-B5-12 (hex) General Electric Digital Energy
C4B512 (base 16) General Electric Digital Energy
4200 Wildwood Pkwy
Atlanta GA 30339
US

E0-25-38 (hex) Titan Pet Products
E02538 (base 16) Titan Pet Products
6521 Creedmoor Rd. Suite 101
Raleigh NC 27613
US

CC-7A-30 (hex) CMAX Wireless Co., Ltd.
CC7A30
(base 16) CMAX Wireless Co., Ltd.
KT Bongduk B/D 9F, 627-15, Bongduk-dong
Namgu Daegu 705710
KR

B8-8E-3A (hex) Infinite Technologies JLT
B88E3A (base 16) Infinite Technologies JLT
Office 3203, Level 32
Jumeirah Lake Towers Dubai
AE

70-65-82 (hex) Suzhou Hanming Technologies Co., Ltd.
706582 (base 16) Suzhou Hanming Technologies Co., Ltd.
Suite 407, No. 166, Ren Ai Road
Suzhou Jiangsu 215123

CN

7C-39-20 (hex) SSOMA SECURITY
7C3920 (base 16) SSOMA SECURITY
Unit 703, Daeryung Technotown 13th,
Geumcheongu Seoul 153754
KR

9C-77-AA (hex) NADASNV
9C77AA (base 16) NADASNV
2203, T-dong, Poonglim I-won Plus
Seongnam-si Gyeonggi-do 463-862
KR

58-BC-27 (hex) Cisco Systems, Inc
58BC27 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

34-D2-C4 (hex) RENA GmbH Print Systeme
34D2C4 (base 16) RENA GmbH Print Systeme
Hienlohestrasse
24
Otterfing Bavaria 83624
DE

00-34-F1 (hex) Radicom Research, Inc.
0034F1 (base 16) Radicom Research, Inc.
2148 Bering Drive
San Jose Ca 95131
US

DC-20-08 (hex) ASD Electronics Ltd
DC2008 (base 16) ASD Electronics Ltd
DEDE INDUSTRIAL PARK,JIAN'AN ROAD,HIGH-TECH
Shenzhen Guang Dong 518103
CN

88-AC-C1 (hex) Generiton Co., Ltd.
88ACC1 (base 16) Generiton Co., Ltd.
8F-1, No. 81, Shuili Rd.,
Hsinchu City, 30059
TW

88-18-AE (hex) Tamron Co., Ltd
8818AE (base 16) Tamron Co., Ltd
1385,Hasunuma, Minuma-ku

Saitama-shi Saitama 337-8556
JP

20-D6-07 (hex) Nokia Corporation
20D607 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

20-6F-EC (hex) Braemac CA LLC
206FEC (base 16) Braemac CA LLC
43134 Osgood Road
Fremont CA 94539
US

A4-5C-27 (hex) Nintendo Co., Ltd.
A45C27 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO
KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

6C-04-60 (hex) RBH Access Technologies Inc.
6C0460 (base 16) RBH Access Technologies Inc.
2 Automatic Road
Brampton Ontario L6S 6K8
CA

70-64-17 (hex) ORBIS TECNOLOGIA ELECTRICA S.A.
706417 (base 16) ORBIS TECNOLOGIA ELECTRICA S.A.
Lerida, 61
Madrid Madrid E28020
US

B8-BA-72 (hex) Cynove
B8BA72 (base 16) Cynove
10 cite rougemont
Paris 75009
FR

D4-CB-AF (hex) Nokia Corporation
D4CBAF (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

10-E8-EE (hex) PhaseSpace
10E8EE (base 16) PhaseSpace

1933 Davis St Suite 312
San Leandro CA 94577
US

A4-7C-1F (hex) Cobham plc
A47C1F (base 16) Cobham plc
3985 Gateway Centre Blvd
Pinellas Park FL 33782
US

D4-6C-DA (hex) CSM GmbH
D46CDA (base 16) CSM GmbH
Raiffeisenstraße 34
Filderstadt Baden-Württemberg 70794
DE

5C-D9-98 (hex) D-Link
Corporation
5CD998 (base 16) D-Link Corporation
No.289, Sinhu 3rd Rd., Neihu District,
Taipei City 114
TW

10-0D-32 (hex) Embedian, Inc.
100D32 (base 16) Embedian, Inc.
10F., 95, Nanjing E. Rd. Sec. 4,
Taipei 10580
TW

7C-ED-8D (hex) Microsoft
7CED8D (base 16) Microsoft
1 Microsoft Way
Redmond Washington 98052
US

6C-E0-B0 (hex) SOUND4
6CE0B0 (base 16) SOUND4
11 quai Joseph Gillet
LYON 69004
FR

9C-FF-BE (hex) OTSL Inc.
9CFFBE (base 16) OTSL Inc.
HANROKU Bldg. 2F, 2-1-2
Shinjuku-ku Tokyo 160-0021
JP

04-5D-56 (hex) camtron industrial inc.

045D56 (base 16) camtron industrial inc.
5F, Kuem-Ah B/D, 31-3, Karak-dong, Songpa-gu
Seoul 138-801
KR

68-23-4B (hex) Nihon Dengyo Kousaku
68234B (base 16) Nihon Dengyo Kousaku
shinmachi 21-1
kawagoe-shi saitama 350-1107
JP

A4-BE-61 (hex) EutroVision System, Inc.
A4BE61 (base 16) EutroVision
System, Inc.
Rm 403,Building33,No.680 GuipingRd,Xuhui,
Shanghai 200233
CN

18-EF-63 (hex) Cisco Systems, Inc
18EF63 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-F8-60 (hex) PT. Panggung Electric Citrabuana
00F860 (base 16) PT. Panggung Electric Citrabuana
Jl. Raya Waru no. 1
Sidoarjo Jawa Timur 61256
ID

1C-3D-E7 (hex) Sigma Koki Co.,Ltd.
1C3DE7 (base 16) Sigma Koki Co.,Ltd.
1-19-9 Midori
Sumida-ku Tokyo 130-0021
JP

A4-0C-C3 (hex) Cisco Systems, Inc
A40CC3 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

4C-BA-A3 (hex) Bison Electronics Inc.
4CBAA3 (base 16) Bison Electronics Inc.
3F., No.28, Lane 583, Rueiguang Rd., Neihu District
Taipei City 11492
TW

EC-7C-74 (hex) Justone Technologies Co., Ltd.
EC7C74 (base 16) Justone Technologies Co., Ltd.
Tongguang Building F19, 12# South Agriculture
Exhibition Center Road,
Beijing 100125
CN

A8-B1-D4 (hex) Cisco Systems, Inc
A8B1D4 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

CC-FC-B1 (hex) Wireless Technology, Inc.
CCFCB1 (base 16) Wireless Technology, Inc.
2064 Eastman Ave. #113
Ventura CA 93003-7787
US

3C-1A-79 (hex) Huayuan Technology CO.,LTD
3C1A79 (base 16) Huayuan Technology CO.,LTD
R308 Block Jingmeng High-Tech Building,NO.5-1 Shangdi East Road,
Beijing 100085
CN

88-41-C1 (hex) ORBISAT DA AMAZONIA IND E AEROL SA
8841C1 (base 16) ORBISAT DA AMAZONIA IND E AEROL SA
AV SHISHIMA HIFUMI, 2911
SAO JOSE DOS CAMPOS São Paulo 12244-000
BR

9C-75-14 (hex) Wildix srl
9C7514 (base 16) Wildix srl
loc. Le Basse, 3
Trento TN 38100
IT

4C-F7-37 (hex) SamJi Electronics Co., Ltd
4CF737 (base 16) SamJi Electronics Co., Ltd
459-21, Gasan-dong, Gumchun-ku
Seoul 153-803
KR

F0-D7-67
(hex) Axema Passagekontroll AB
F0D767 (base 16) Axema Passagekontroll AB
Box 90 215
Stockholm 120 23

SE

44-3D-21 (hex) Nuvolt
443D21 (base 16) Nuvolt
8087 Boul. de la Rive Sud
Levis Quebec G6V 9G9
CA

30-49-3B (hex) Nanjing Z-Com Wireless Co.,Ltd
30493B (base 16) Nanjing Z-Com Wireless Co.,Ltd
Z-Com Building,NO.30 Jiangsu Software Park,NO.699-22 Xuanwu Avenue,
Nanjing Jiangsu 210042
CN

D0-7D-E5 (hex) Forward Pay Systems, Inc.
D07DE5 (base 16) Forward Pay Systems, Inc.
9531 West 78th St., #245
Eden Prairie MN 55344
US

84-A9-91 (hex) Cyber Trans Japan Co.,Ltd.
84A991 (base 16) Cyber Trans Japan Co.,Ltd.

Setagaya-ku Tokyo 155-0031
JP

68-78-4C (hex) Nortel Networks
68784C (base 16) Nortel Networks
CARRETERA BASE AEREA # 5850
Zapopan Jalisco 44130
MX

9C-F6-1A (hex) Carrier Fire & Security
9CF61A (base 16) Carrier Fire & Security
Kelvinstraat
7
DH Weert 6003
NL

7C-F0-98 (hex) Bee Beans Technologies, Inc.
7CF098 (base 16) Bee Beans Technologies, Inc.
TCI B5
Tsukuba City Ibaraki 305-0047
JP

EC-66-D1 (hex) B&W Group LTD
EC66D1 (base 16) B&W Group LTD
Dale Road

Worthing Sussex BN11 2BH
GB

38-5F-C3 (hex) Yu Jeong System, Co.Ltd
385FC3 (base 16) Yu Jeong System, Co.Ltd
#503, Dong il B/D, 826, Guro-3dong,
Seoul 152-879
KR

88-8B-5D (hex) Storage Appliance Corporation
888B5D (base 16) Storage Appliance Corporation
29 Su Zhou Jie, Haidian Dist.
Beijing 100080
CN

78-C6-BB (hex) Analog Devices, Inc.
78C6BB (base 16) Analog Devices, Inc.
5635 Jefferson St. NE, Suite A
Albuquerque NM 87109
US

04-DD-4C (hex) Velocytech
04DD4C (base 16) Velocytech
Poppelgårdvej 11
Søborg DK 2860
DK

F8-D7-56 (hex) Simm Tronic Limited
F8D756 (base 16) Simm Tronic Limited
Unit
3, Waterside
Hoddesdon Hertfordshire EN11 0QR
GB

C8-02-A6 (hex) Beijing Newmine Technology
C802A6 (base 16) Beijing Newmine Technology
10 floor,Keshi Plaza
Beijing 100085
CN

C8-4C-75 (hex) Cisco Systems, Inc
C84C75 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

4C-8B-55 (hex) Grupo Digicon
4C8B55 (base 16) Grupo Digicon

Rua Nissin Castiel, 640
Gravataí Rio Grande do Sul 94045420
BR

04-A3-F3 (hex) Emicon
04A3F3 (base 16) Emicon
shelkovskoe shosse, 77
Moscow 107241
RU

1C-17-D3 (hex) Cisco Systems, Inc
1C17D3 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

7C-E0-44 (hex) NEON Inc
7CE044 (base 16) NEON Inc
5340 Airport Boulevard
Boulder CO 80301
US

28-4C-53 (hex) Intune Networks
284C53 (base 16) Intune Networks
9B Beckett Way
Dublin 12
IE

E8-6C-DA (hex) Supercomputers
and Neurocomputers Research Center
E86CDA (base 16) Supercomputers and Neurocomputers Research Center
2, Chekhov st
Taganrog Rostov-on-Don region 347922
RU

24-0B-2A (hex) Viettel Group
240B2A (base 16) Viettel Group
Center for Research and Development
Hanoi 1111
VN

84-F6-4C (hex) Cross Point BV
84F64C (base 16) Cross Point BV
Postbus 2112
Emmen Drenthe 7801 CC
NL

C0-8B-6F (hex) S I Sistemas Inteligentes Eletrônicos Ltda

C08B6F (base 16) S I Sistemas Inteligentes Eletrônicos Ltda
Rua Amadeu Piotto 161
Curitiba Paraná 81280020
BR

64-D0-2D (hex) NEXT GENERATION INTEGRATION LIMITED (NGI)
64D02D (base 16) NEXT GENERATION INTEGRATION LIMITED (NGI)
Unit 1102, 11 / F, 29 Austin Road, TSIM SHA TSUI
KOWLOON Hong Kong 999077
HK

90-51-3F (hex) Elettronica Santerno SpA
90513F (base 16) Elettronica Santerno SpA
Via della Concia 7
Castel Guelfo (BO) 40026
IT

00-B5-D6
(hex) Omnibit Inc.
00B5D6 (base 16) Omnibit Inc.
2-7-9, Soto-Kanda
Chiyoda-ku Tokyo 101-0021
JP

54-89-22 (hex) Zelfy Inc
548922 (base 16) Zelfy Inc
4655 Old Ironsides Dr, Suite#200
Santa Clara Ca 95054
US

F8-6E-CF (hex) Arcx Inc
F86ECF (base 16) Arcx Inc
151 Amber St, Unit 1
Markham ON L3R 3B3
CA

8C-84-01 (hex) Private
8C8401 (base 16) Private

40-84-93 (hex) Clavister AB
408493 (base 16) Clavister AB
Sjogatan 6J
Ornskoldsvik 89160
SE

6C-70-39 (hex) Novar GmbH
6C7039 (base 16) Novar GmbH
Johannes-Mauthe-Str. 14

Albstadt Baden-Württemberg 72458
DE

6C-5C-DE (hex) SunReports, Inc.
6C5CDE (base 16) SunReports, Inc.
1406 Cedarwood Dr.
San Mateo CA 94403
US

34-F3-9B (hex) WizLAN Ltd.
34F39B (base 16) WizLAN Ltd.
P.O.Box 7948
Haifa 31078
IL

4C-30-89 (hex) Thales Transportation Systems GmbH
4C3089 (base 16) Thales
Transportation Systems GmbH
Bierweg 2
Arnstadt Thuringia 99310
DE

08-9F-97 (hex) LEROY AUTOMATION
089F97 (base 16) LEROY AUTOMATION
35, Boulevard du Libre Echange
Saint Orens de Gameville 31650
FR

78-A6-BD (hex) DAEYEON Control&Instrument Co,.Ltd
78A6BD (base 16) DAEYEON Control&Instrument Co,.Ltd
ACETECHNOTOWER 2-108, 197-7, Guro3-Dong, Guro-Gu,
Seoul 152-766
KR

FC-CF-62 (hex) IBM Corp
FCCF62 (base 16) IBM Corp
2051 Mission College Blvd
Santa Clara CA 95054
US

08-4E-1C (hex) H2A Systems, LLC
084E1C (base 16) H2A Systems, LLC
7545 Irvine Center Drive
Irvine CA 92618
US

88-B6-27 (hex) Gembird Europe BV
88B627 (base 16) Gembird Europe BV

Wittevrouwen 56
Almere Flevoland 1358CD
NL

F0-68-53 (hex) Integrated Corporation
F06853 (base 16) Integrated Corporation
3/F, Shun On Commercial Bldg.,
Cetnral,
HK

A4-AD-B8 (hex) Vitec
Group, Camera Dynamics Ltd
A4ADB8 (base 16) Vitec Group, Camera Dynamics Ltd
William Vinten Building
Bury St Edmunds Suffolk IP33 3TB
GB

3C-19-15 (hex) GFI Chrono Time
3C1915 (base 16) GFI Chrono Time
121 rue des Guillees
CHAURAY 79180
FR

EC-B1-06 (hex) Acuro Networks, Inc
ECB106 (base 16) Acuro Networks, Inc
42808 Christy St., Suite 100
Fremont CA 94538
US

48-12-49 (hex) Luxcom Technologies Inc.
481249 (base 16) Luxcom Technologies Inc.
102 Walgreen Road
Ottawa Ontario K0A 1L0
CA

24-A9-37 (hex) PURE Storage
24A937 (base 16) PURE Storage
650 Castro Street
Mt. View CA 94041
US

34-83-02 (hex) iFORCOM Co., Ltd
348302 (base 16) iFORCOM Co., Ltd
1326
Sagamihara Kanagawa 252-0157
JP

E0-26-30 (hex) Intrigue Technologies, Inc.

E02630 (base 16) Intrigue Technologies, Inc.
800 Old Pond Road
Bridgeville PA 15017
US

B4-3D-B2 (hex) Degreane
Horizon
B43DB2 (base 16) Degreane Horizon
730 Rue de l'Initiative
Cuers Var 83390
FR

34-BA-51 (hex) Se-Kure Controls, Inc.
34BA51 (base 16) Se-Kure Controls, Inc.
3714 Runge Street
Franklin Park IL 60131
US

5C-57-C8 (hex) Nokia Corporation
5C57C8 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

D4-6C-BF (hex) Goodrich ISR
D46CBF (base 16) Goodrich ISR
6600 Gulton Crt
Albuquerque NM 87109
US

F8-9D-0D (hex) Control Technology Inc.
F89D0D (base 16) Control Technology Inc.
7608 North Hudson Ave
Oklahoma City OK 73116
US

2C-3F-3E (hex) Alge-Timing GmbH
2C3F3E (base 16) Alge-Timing GmbH
Rotkreuzstrasse 39
Lustenau 6890
AT

14-73-73 (hex) TUBITAK UEKAE
147373 (base 16) TUBITAK UEKAE
ANIBAL ST.
KOCAELI 41470
TR

C8-35-B8 (hex) Ericsson, EAB/RWI/K
C835B8 (base 16) Ericsson, EAB/RWI/K
Skolgången 17
SE-800
06
SE

EC-C8-82 (hex) Cisco Systems, Inc
ECC882 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

98-2D-56 (hex) Resolution Audio
982D56 (base 16) Resolution Audio
88 Hoff Street #106
San Francisco CA 94110
US

6C-FD-B9 (hex) Proware Technologies Co Ltd.
6CFDB9 (base 16) Proware Technologies Co Ltd.
2nd F1 East Wing,South Section,Factory Building 24,Science&Technology Park
Shenzhen Guangdong 518000
CN

B4-2C-BE (hex) Direct Payment Solutions Limited
B42CBE (base 16) Direct Payment Solutions Limited
98 Anzac Avenue
Auckland 1035
NZ

CC-22-18 (hex) InnoDigital Co., Ltd.
CC2218 (base 16) InnoDigital Co., Ltd.
No.310 3F Kofomo Tower
Sungnam-city Kyunggi-do 463-825
KR

C8-6C-1E (hex) Display Systems Ltd
C86C1E (base 16) Display Systems Ltd
16-Parkovaja Street 26
Moscow 105484
RU

90-A7-C1 (hex) Pakedge Device and Software Inc.
90A7C1
(base 16) Pakedge Device and Software Inc.
1011 Edwards Road
Burlingame CA 94010

US

80-BA-AC (hex) TeleAdapt Ltd
80BAAC (base 16) TeleAdapt Ltd
Axis 5
Watford Hertfordshire WD244YW
GB

C8-6C-B6 (hex) Optcom Co., Ltd.
C86CB6 (base 16) Optcom Co., Ltd.
792-3 Tomigaoka
Iwata Shizuoka 438-0803
JP

A0-18-59 (hex) Shenzhen Yidashi Electronics Co Ltd
A01859 (base 16) Shenzhen Yidashi Electronics Co Ltd
Building A10, Fukang Industrial Zone
Shenzhen Guangdong 518110
CN

E8-05-6D (hex) Nortel Networks
E8056D (base 16) Nortel Networks
CARRETERA BASE AEREA # 5850
Zapopan Jalisco 44130
MX

C4-59-76 (hex) Fugoo Coorporation
C45976 (base 16) Fugoo Coorporation
8001 Irvine Center Drive
Irvine CA 62618
US

A4-B1-21 (hex) Arantia 2010 S.L.
A4B121 (base 16) Arantia 2010 S.L.
Volta do Castro s/n
Santiago de Compostela A Coruña 15706
ES

E0-26-36 (hex) Nortel
Networks
E02636 (base 16) Nortel Networks
CARRETERA BASE AEREA # 5850
Zapopan Jalisco 44130
MX

8C-56-C5 (hex) Nintendo Co., Ltd.
8C56C5 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU

KYOTO KYOTO 601-8501
JP

CC-B8-88 (hex) AnB Securite s.a.
CCB888 (base 16) AnB Securite s.a.
Rue de Joie,38-40
Liege 4000
BE

6C-5E-7A (hex) Ubiquitous Internet Telecom Co., Ltd
6C5E7A (base 16) Ubiquitous Internet Telecom Co., Ltd
#512, 5th Floor, Kolon Digital Valley,Guro 3(sam)-dong, Guro-gu
Seoul 152-777
KR

10-43-69 (hex) Soundmax Electronic Limited
104369 (base 16) Soundmax Electronic Limited
Room#1505, Oriental plaza, #1072 JianShe Road
SHENZHEN Guangdong 518001
CN

C0-6C-0F (hex) Dobbs Stanford
C06C0F (base 16) Dobbs Stanford
2715 Electronic Lane
Dallas Texas 75220
US

50-2D-F4 (hex) Phytec Messtechnik GmbH
502DF4 (base 16) Phytec
Messtechnik GmbH
Robert-Koch-Straße 39
Mainz Rheinland-Pfalz 55129
DE

2C-CD-27 (hex) Precor Inc
2CCD27 (base 16) Precor Inc
20031 142nd Avenue NE
Woodinville WA 98072
US

10-18-9E (hex) Elmo Motion Control
10189E (base 16) Elmo Motion Control
64 Gisin St.
Petach Tikva 49103
IL

74-6B-82 (hex) MOVEK
746B82 (base 16) MOVEK

6517 Navaho Trail
Edina Minnesota 55439
US

9C-C0-77 (hex) PrintCounts, LLC
9CC077 (base 16) PrintCounts, LLC
5109 W Lemon St
Tampa FL 33609
US

3C-B1-7F (hex) Wattwatchers Pty Ld
3CB17F (base 16) Wattwatchers Pty Ld
22 Woodbury Rd St. Ives
Sydney NSW 2075
AU

CC-54-59 (hex) OnTime Networks AS
CC5459 (base 16) OnTime Networks AS
Gladsvei 20
Oslo 0489
NO

D4-F1-43 (hex) IPROAD.,Inc
D4F143 (base 16) IPROAD.,Inc
#505 Byuksan digital valley 7, 170-13,
Seoul 152-847
KR

60-1D-0F (hex) Midnite
Solar
601D0F (base 16) Midnite Solar
17722 67th Ave NE #C
Arlington WA 98223
US

A8-F9-4B (hex) Eltex Enterprise Ltd.
A8F94B (base 16) Eltex Enterprise Ltd.
Okruzhnaya st. 29v
Novosibirsk 630020
RU

0C-82-30 (hex) SHENZHEN MAGNUS TECHNOLOGIES CO.,LTD
0C8230 (base 16) SHENZHEN MAGNUS TECHNOLOGIES CO.,LTD
c-504,Skyworth Building,No.8 Road,High-tech south,Nanshan District,
Shenzhen Guangdong 518057
CN

34-86-2A (hex) Heinz Lackmann GmbH & Co KG

34862A (base 16) Heinz Lackmann GmbH & Co KG
Harkortstraße 15
Münster NRW 48163
DE

B4-ED-54 (hex) Wohler Technologies
B4ED54 (base 16) Wohler Technologies
31055 Huntwood Avenue
Hayward CA 94544
US

F8-DC-7A (hex) Variscite LTD
F8DC7A (base 16) Variscite LTD
60 Medinat Hayehudim st.
Hertzelia 46722
IL

B8-F7-32 (hex) Aryaka Networks Inc
B8F732 (base 16) Aryaka Networks Inc
691 S. Milpitas Blvd.,
Milpitas
CA 95035
US

E8-DF-F2 (hex) PRF Co., Ltd.
E8DFF2 (base 16) PRF Co., Ltd.
#510, Leaders B/D, Yatop-dong
Seongnam-city Gyeonggi-do 463-828
KR

00-64-40 (hex) Cisco Systems, Inc
006440 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

58-49-BA (hex) Chitai Electronic Corp.
5849BA (base 16) Chitai Electronic Corp.
5F., No. 1 Lane 123, Pao-Chung Rd., Hsin-Tien City
Taiepi 23144
TW

00-D1-1C (hex) ACETEL
00D11C (base 16) ACETEL
#1006, World Merdian 2-cha, 426-5,
Seoul 153-759
KR

94-C4-E9 (hex) PowerLayer Microsystems HongKong Limited
94C4E9 (base 16) PowerLayer Microsystems HongKong Limited
23 Zhichun Rd,Liangziyinzuo Rm1009
Beijing 100083
CN

88-43-E1 (hex) Cisco Systems, Inc
8843E1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

54-9A-16 (hex) Uzushio Electric Co.,Ltd.
549A16 (base 16) Uzushio
Electric Co.,Ltd.
105
Imabari-city Ehime pref. 7948582
JP

90-18-AE (hex) Shanghai Meridian Technologies, Co. Ltd.
9018AE (base 16) Shanghai Meridian Technologies, Co. Ltd.
Suite 6A Tongsheng Tower
Pudong shanghai 200122
CN

A4-AD-00 (hex) Ragsdale Technology
A4AD00 (base 16) Ragsdale Technology
505 Echo Lane
Big Bear Lake CA 92315
US

4C-9E-E4 (hex) Hanyang Navicom Co.,Ltd.
4C9EE4 (base 16) Hanyang Navicom Co.,Ltd.
713, Gwanpyeong-dong, Yusung-gu
Daejeon 305-509
KR

C4-7D-4F (hex) Cisco Systems, Inc
C47D4F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

3C-DF-1E (hex) Cisco Systems, Inc
3CDF1E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

50-A6-E3 (hex) David Clark Company
50A6E3 (base 16) David Clark Company
360 Franklin St.
Worcester MA 01615
US

50-93-4F (hex) Gradual Tecnologia Ltda.
50934F
(base 16) Gradual Tecnologia Ltda.
Rua Attilio Giaretta, 110
Itatiba SP 13257-584
BR

AC-E3-48 (hex) MadgeTech, Inc
ACE348 (base 16) MadgeTech, Inc
879 Maple St
Contoocook NH 03229
US

9C-4E-8E (hex) ALT Systems Ltd
9C4E8E (base 16) ALT Systems Ltd
PoBox 17
Helsinki 00761
FI

04-2B-BB (hex) PicoCELA, Inc.
042BBB (base 16) PicoCELA, Inc.
3-8-33, Momochihama
Fukuoka-city Fukuoka 814-0001
JP

FC-08-77 (hex) Prentke Romich Company
FC0877 (base 16) Prentke Romich Company
1022 Heyl Rd
Wooster OH 44691
US

EC-D0-0E (hex) MiraeRecognition Co., Ltd.
ECD00E (base 16) MiraeRecognition Co., Ltd.
PrimeBank Bldg. Annex-3F, #278-3
Seoul 135-833
KR

70-72-CF (hex) EdgeCore Networks
7072CF (base 16) EdgeCore Networks
20 Mason
Irvine CA 92618

US

B8-B1-C7 (hex) BT&COM CO.,LTD
B8B1C7 (base 16) BT&COM CO.,LTD
#1103, E&C Venture Dream
Tower II
Seoul 152-719
KR

DC-2C-26 (hex) Iton Technology Limited
DC2C26 (base 16) Iton Technology Limited
Room 10E, JingFeng Building,
ShenZhen GuangDong 518034
CN

1C-0F-CF (hex) Sypro Optics GmbH
1C0FCF (base 16) Sypro Optics GmbH
Carl-Zeiss-Promenade 10
Jena Thuringia 07745
DE

04-94-A1 (hex) CATCH THE WIND INC
0494A1 (base 16) CATCH THE WIND INC
10781 JAMES PAYNE COURT
MANASSAS VA 20110
US

00-3A-99 (hex) Cisco Systems, Inc
003A99 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-3A-9A (hex) Cisco Systems, Inc
003A9A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-3A-98 (hex) Cisco Systems, Inc
003A98 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

D4-11-D6 (hex) ShotSpotter, Inc.
D411D6 (base 16) ShotSpotter, Inc.
1060 Terra Bella Ave.

Mountain View
CA 94043
US

9C-AF-CA (hex) Cisco Systems, Inc
9CAFCA (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

7C-7B-E4 (hex) Z'SEDAI KENKYUSHO CORPORATION
7C7BE4 (base 16) Z'SEDAI KENKYUSHO CORPORATION
Meikai sannomiya 2nd Bldg. 11th/fl.
Kobe Hyogo 650-0034
JP

F0-DE-71 (hex) Shanghai EDO Technologies Co.,Ltd.
F0DE71 (base 16) Shanghai EDO Technologies Co.,Ltd.
Unit 12302, Building 12,498 Guoshoujing Road, Pudong New Area
Shanghai 201203
CN

60-D3-0A (hex) Quatius Limited
60D30A (base 16) Quatius Limited
Units 05-07, 16/F, Greenfield Tower, Concordia Plaza,
Kowloon
HK

24-CF-21 (hex) Shenzhen State Micro Technology Co., Ltd
24CF21 (base 16) Shenzhen State Micro Technology Co., Ltd
SSMEC Building2/F, Gao Xin Nan First Avenue, Hi-Tech Park South, Nanshan
Shenzhen City Guangdong Province 518057
CN

10-BA-A5 (hex) GANA I&C CO., LTD
10BAA5 (base 16) GANA
I&C CO., LTD
154-17 kyoungdong B/D 3F karak-dong songpa-gu
Seoul Korea 138-160
KR

64-BC-11 (hex) CombiQ AB
64BC11 (base 16) CombiQ AB
Science Park
Jonkoping 553 18
SE

EC-30-91 (hex) Cisco Systems, Inc

EC3091 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F4-AC-C1 (hex) Cisco Systems, Inc
F4ACC1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

40-97-D1 (hex) BK Electronics cc
4097D1 (base 16) BK Electronics cc
150 Swaardlelie Ave
Pretoria Gauteng 0184
ZA

0C-E9-36 (hex) ELIMOS srl
0CE936 (base 16) ELIMOS srl
Area Science Park - Padriciano 99
TRIESTE 34149
IT

60-39-1F (hex) ABB Ltd
60391F (base 16) ABB Ltd
Distribution Automation
Vadodara Gujarat 390013
IN

E8-A4-C1 (hex) Deep Sea Electronics Ltd
E8A4C1 (base 16) Deep Sea Electronics Ltd
Highfield House
Hunmanby North
Yorkshire YO14 0PH
GB

64-F9-70 (hex) Kenade Electronics Technology Co.,LTD.
64F970 (base 16) Kenade Electronics Technology Co.,LTD.
F/G room,11/F,Hangdu building,Huafu Rd, Futian district,
ShenZhen GuangDong 518028
CN

C8-72-48 (hex) Aplicom Oy
C87248 (base 16) Aplicom Oy
Rautatienkatu 56
Äänekoski Länsi-Suomi 44101
FI

98-6D-C8 (hex) TOSHIBA MITSUBISHI-ELECTRIC INDUSTRIAL SYSTEMS CORPORATION
986DC8 (base 16) TOSHIBA MITSUBISHI-ELECTRIC INDUSTRIAL SYSTEMS CORPORATION
TOKYO SQUARE GARDEN
3-1-1 Kyobashi, CHUO-KU Tokyo 104-0031
JP

6C-AC-60 (hex) Venetex Corp
6CAC60 (base 16) Venetex Corp
8-3-9,Shin-machi
Ome-shi, Tokyo 198-0024
JP

F0-4B-F2 (hex) JTECH Communications, Inc.
F04BF2 (base 16) JTECH Communications, Inc.
6413 Congress Ave.
Boca Raton FL 33487
US

88-A5-BD (hex) QPCOM INC.
88A5BD (base 16) QPCOM INC.
6030 NW 99 AVE
DORAL FLORIDA 33178
US

80-17-7D
(hex) Nortel Networks
80177D (base 16) Nortel Networks
CARRETERA BASE AEREA # 5850
Zapopan Jalisco 44130
MX

C8-2E-94 (hex) Halfa Enterprise Co., Ltd.
C82E94 (base 16) Halfa Enterprise Co., Ltd.
5F, No.102, Ming Chuan Road
Hsin Tien Taipei County 23141
TW

BC-9D-A5 (hex) DASCOM Europe GmbH
BC9DA5 (base 16) DASCOM Europe GmbH
Heuweg 3
Ulm Baden-Württemberg 89079
DE

28-FB-D3 (hex) Ragentek Technology Group
28FBD3 (base 16) Ragentek Technology Group
D10/D11No.3188, Xiupu Road, PuDong District, Shanghai
Shanghai 201703
CN

58-6E-D6 (hex) Private
586ED6 (base 16) Private

C8-D2-C1 (hex) Jetlun (Shenzhen) Corporation
C8D2C1 (base 16) Jetlun (Shenzhen) Corporation
1008A Skyworth Building, Gao-xin Rd South
Shenzhen 518057
CN

E0-91-53 (hex) XAVi Technologies Corp.
E09153 (base 16) XAVi Technologies Corp.
9F., No129, Xingde RD.,Sanchong Dist.,
New Taipei
Taiwan 24158
TW

00-27-12 (hex) MaxVision LLC
002712 (base 16) MaxVision LLC
495 Production Ave
Madison AL 35758
US

D4-C7-66 (hex) Acentic GmbH
D4C766 (base 16) Acentic GmbH
Venloer Strasse 151-153
Cologne 50672
DE

A0-2E-F3 (hex) United Integrated Services Co., Led.
A02EF3 (base 16) United Integrated Services Co., Led.
5F No 3 Lane 7 Packao Road Hsintien
Taipei Hsien 23144
TW

A0-98-05 (hex) OpenVox Communication Co Ltd
A09805 (base 16) OpenVox Communication Co Ltd
F2,Building No.14,Shangsha Science &
ShenZhen GuangDong 518031
CN

00-26-F3 (hex) SMC Networks
0026F3 (base 16) SMC Networks
20 Mason
Irvine CA 92618
US

00-26-E7 (hex) Shanghai ONLAN Communication Tech. Co., Ltd.

0026E7 (base 16) Shanghai ONLAN Communication Tech. Co., Ltd.
3F, 6C, No. 1658, Gumei Road, Xuhui District
Shanghai 200233
CN

00-27-1F (hex) MIPRO Electronics Co.,
Ltd
00271F (base 16) MIPRO Electronics Co., Ltd
814,Peikang Road
Chiayi 60096
TW

00-27-0C (hex) Cisco Systems, Inc
00270C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-26-E0 (hex) ASITEQ
0026E0 (base 16) ASITEQ
5F, DONGYOUNG Bldg,382-6,Yatap dong
Sung Nam si Kyounggi-do 463-827
KR

00-27-03 (hex) Testech Electronics Pte Ltd
002703 (base 16) Testech Electronics Pte Ltd
Block 118, #05-110,
Singapore 380118
SG

00-26-C5 (hex) Guangdong Gosun Telecommunications Co.,Ltd
0026C5 (base 16) Guangdong Gosun Telecommunications Co.,Ltd
Guangdong software park D, No.11, CaiPing road , Guangzhou science city
Guangzhou Guangdong 510663
CN

00-26-C4 (hex) Cadmos microsystems S.r.l.
0026C4 (base 16) Cadmos microsystems S.r.l.
Via Pietro Frattini, 255
Roma 00149
IT

00-26-C8 (hex) System Sensor
0026C8 (base 16) System Sensor
3825 Ohio
Avenue
Saint Charles IL 60174
US

00-26-C2 (hex) SCDI Co. LTD
0026C2 (base 16) SCDI Co. LTD
#451, Hagal-Dong, Giheung-Gu,
Yongin-Si Gyeonggi-Do 446-930
KR

00-26-97 (hex) Alpha Technologies Inc.
002697 (base 16) Alpha Technologies Inc.
3767 Alpha Way
Bellingham WA 98226
US

00-26-8A (hex) Terrier SC Ltd
00268A (base 16) Terrier SC Ltd
Strettit Farm
East Peckham Kent TN12 5EE
GB

00-26-A5 (hex) MICROROBOT.CO.,LTD
0026A5 (base 16) MICROROBOT.CO.,LTD
167-3 Gungpyeong-ri
Gwangju-si Gyeonggi-Do 464-881
KR

00-26-A3 (hex) FQ Ingenieria Electronica S.A.
0026A3 (base 16) FQ Ingenieria Electronica S.A.
Avda. Roquetes 9
Sant Pere de Ribes Barcelona 08812
ES

00-26-9D (hex) M2Mnet Co., Ltd.
00269D (base 16) M2Mnet Co., Ltd.
607 Downtown Bld. 1043-1 Hogye-Dong Dongan-Gu
Anyang-City Kyunggi-Do 431-080
KR

00-26-7A (hex) wuhan hongxin telecommunication
technologies co.,ltd
00267A (base 16) wuhan hongxin telecommunication technologies co.,ltd
No.5 Donxin Road,Wuhan East Lake High-Tech Development Zone
Wuhan Hubei 430073
CN

00-26-72 (hex) AAMP of America
002672 (base 16) AAMP of America
13190 56th Court
Clearwater Florida 33760

US

00-26-89 (hex) General Dynamics Robotic Systems
002689 (base 16) General Dynamics Robotic Systems
1231 Tech Court
Westminster MD 21157
US

00-26-85 (hex) Digital Innovation
002685 (base 16) Digital Innovation
Travbaneveien 6
Trondheim 7044
NO

00-26-CF (hex) DEKA R&D
0026CF (base 16) DEKA R&D
340 Commercial Street
Manchester NH 03101
US

00-26-64 (hex) Core System Japan
002664 (base 16) Core System Japan
Bunshu Bldg,2-27-6,Myojin
Hachioji Tokyo 1920046
JP

00-26-59 (hex) Nintendo Co., Ltd.
002659 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO
KYOTO 601-8501
JP

00-26-51 (hex) Cisco Systems, Inc
002651 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-26-4E (hex) r2p GmbH
00264E (base 16) r2p GmbH
Norderhofenden 12-13
Flensburg 24937
DE

00-26-4F (hex) Krüger &Gothe GmbH
00264F (base 16) Krüger &Gothe GmbH
Atzendorfer Straße 19

Staßfurt Sachsen Anhalt 39418
DE

00-26-A9 (hex) Strong Technologies Pty Ltd
0026A9 (base 16) Strong Technologies Pty Ltd
60 Wedgewood Road
Hallam Victoria 3803
AU

00-25-E9 (hex) i-mate Development, Inc.
0025E9 (base 16) i-mate Development, Inc.
8383 158th Ave. N.E., Suite 300, Redmond,
Washington WA 98052-3871
US

00-25-E6 (hex) Belgian Monitoring Systems bvba
0025E6 (base 16) Belgian Monitoring Systems bvba
Th. Sevenslaan 106
Kortrijk WVL 8500
BE

00-25-E0 (hex) CeedTec Sdn Bhd
0025E0 (base 16) CeedTec Sdn Bhd
303-4-5,
Krystal Point Business Center
Bayan Lepas Penang 11900
MY

00-25-DE (hex) Probits Co., LTD.
0025DE (base 16) Probits Co., LTD.
#1502, Kolon Science Valley II, 811
Seoul 152-878
KR

00-25-CE (hex) InnerSpace
0025CE (base 16) InnerSpace
PO Box 2186
Grand Rapids MI 49501
US

00-25-C6 (hex) kasercorp, ltd
0025C6 (base 16) kasercorp, ltd
South 20,Gaobu Road,Gaobu Town
Dongwan Guangdong 523000
CN

00-25-C5 (hex) Star Link Communication Pvt. Ltd.
0025C5 (base 16) Star Link Communication Pvt. Ltd.

HR114/6 & Hr132/6, Pulprehladpur,
New Delhi 110044
IN

00-25-C7 (hex) altek Corporation
0025C7 (base 16) altek Corporation
3F, No. 10, Li-Hsin Road, Science-Based Industrial Park,
Hsinchu
TW

00-25-FF (hex) CreNova Multimedia Co., Ltd
0025FF (base 16) CreNova Multimedia Co., Ltd
7/F, Hana EZ Tower, Gumi-Dong 10, Sungnam Rd 43,
Sungnam-Si Kyunggi-Do 463-870
KR

00-26-12
(hex) Space Exploration Technologies
002612 (base 16) Space Exploration Technologies
1 Rocket Road
Hawthorne CA 90250
US

00-26-16 (hex) Rosemount Inc.
002616 (base 16) Rosemount Inc.
8200 Market Boulevard
Chanhassen MN 55317
US

00-26-0B (hex) Cisco Systems, Inc
00260B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-25-FD (hex) OBR Centrum Techniki Morskiej S.A.
0025FD (base 16) OBR Centrum Techniki Morskiej S.A.
Dickmana 62
Gdynia 81-109
US

00-26-00 (hex) TEAC Australia Pty Ltd.
002600 (base 16) TEAC Australia Pty Ltd.
75 Northgate Drive
Thomastown Victoria 3074
AU

00-25-F3 (hex) Nordwestdeutsche Zählerrevision

0025F3 (base 16) Nordwestdeutsche Zählerrevision
Ing. Aug. Knemeyer GmbH & Co. KG
Bad Laer Niedersachsen 49196
DE

00-25-EC (hex) Humanware
0025EC (base 16) Humanware
445 rue du Parc Industriel
Longueuil
Québec J4H 3V7
CA

00-25-ED (hex) NuVo Technologies LLC
0025ED (base 16) NuVo Technologies LLC
3015 Kustom Drive
Hebron KY 41048
US

00-26-23 (hex) JRD Communication Inc
002623 (base 16) JRD Communication Inc
16/F, TCL Tower, Gaoxin Nanyi Road, Nanshan District
Shenzhen Guangdong 518057
CN

00-26-27 (hex) Truesell
002627 (base 16) Truesell
301 Sungyun Bldg, 89-2
Seocho-gu, Seoul 137-130
KR

00-26-21 (hex) InteliCloud Technology Inc.
002621 (base 16) InteliCloud Technology Inc.
895 Dove St.
Newport Beach CA 92660
US

00-26-1C (hex) NEOVIA INC.
00261C (base 16) NEOVIA INC.
503 LOTTE IT CASTLE 1DONG,550-1
SEOUL 153-768
KR

00-26-39 (hex) T.M. Electronics, Inc.
002639 (base 16) T.M. Electronics, Inc.
45 Main St
Boylston MA 01505
US

00-25-DD (hex) SUNNYTEK INFORMATION CO., LTD.
0025DD (base 16) SUNNYTEK INFORMATION CO., LTD.
12F,
NO. 88, HSIN-TE ROAD
TAIPEI HSIEN 241
TW

00-25-B0 (hex) Schmartz Inc
0025B0 (base 16) Schmartz Inc
2307 Valerian Trl
Round Rock TX 78665
US

00-25-AD (hex) Manufacturing Resources International
0025AD (base 16) Manufacturing Resources International
6415 Shiloh Road East
Alpharetta GA 30005
US

00-25-AC (hex) I-Tech corporation
0025AC (base 16) I-Tech corporation
1-15 Shin-ogawa machi
Shinjyuku-ku Tokyo 162-0814
JP

00-25-AB (hex) AIO LCD PC BU / TPV
0025AB (base 16) AIO LCD PC BU / TPV
10F., No., 230, Liancheng Rd.
Zhonghe City Taipei Taiwan 23553
TW

00-25-BA (hex) Alcatel-Lucent IPD
0025BA (base 16) Alcatel-Lucent IPD
701 E. Middlefield Rd.
Mountain View CA 94043
US

00-25-BB (hex) INNERINT Co., Ltd.
0025BB (base 16) INNERINT Co., Ltd.
Dongyoung CentralTower #202, Geumjung-dong,
Gunpo-si Kyunggi-do 430050
KR

00-25-B1 (hex) Maya-Creation
Corporation
0025B1 (base 16) Maya-Creation Corporation
3F, Building M-10, Centre od Hi-Tech Ind. Dist.
Shenzhen 518057

CN

00-25-B8 (hex) Agile Communications, Inc.
0025B8 (base 16) Agile Communications, Inc.
810 Lawrence Dr
Thousand Oaks California 91320
US

00-25-A1 (hex) Enalasys
0025A1 (base 16) Enalasys
250 Avenida Campillo
Calexico California 92231
US

00-25-9A (hex) CEStronics GmbH
00259A (base 16) CEStronics GmbH
Friedrichstraße 243
Velbert 42551
DE

00-25-4A (hex) RingCube Technologies, Inc.
00254A (base 16) RingCube Technologies, Inc.
100 West Evelyn Ave, Suite 210
Mountain View CA 94041
US

00-25-83 (hex) Cisco Systems, Inc
002583 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-25-5D (hex) Morningstar Corporation
00255D (base 16) Morningstar Corporation
10611 Iron Bridge Road
Jessup MD 20794
US

00-25-58
(hex) MPEDIA
002558 (base 16) MPEDIA
Shinyoung Tower 12F 246-2
Seongnam Gyeonggi-do 463-824
KR

00-25-91 (hex) NEXTEK, Inc.
002591 (base 16) NEXTEK, Inc.
410 Douglass Street

Reading PA 19601
US

00-25-8D (hex) Haier
00258D (base 16) Haier
No.1,Haier Road
Qingdao Shandong 266101
CN

00-25-71 (hex) Zhejiang Tianle Digital Electric Co.,Ltd
002571 (base 16) Zhejiang Tianle Digital Electric Co.,Ltd
No.8 Tianle Rd,Economic Development Zone
Shengzhou Zhejiang 312400
CN

00-25-4F (hex) ELETTROLAB Srl
00254F (base 16) ELETTROLAB Srl
Via Dell'Industria 25
San Vendemiano Treviso 31020
IT

00-25-49 (hex) Jeorich Tech. Co.,Ltd.
002549 (base 16) Jeorich Tech. Co.,Ltd.
4F., No.6, Ln. 70, Sec. 2, Academia Rd., Nangang District, Taipei City 115, Taiwan (R.O.C.)
Taipei Taiwan 110
TW

00-25-39 (hex) IfTA GmbH
002539 (base 16) IfTA GmbH
Industriestraße
33
Groebenzell Bavaria 82194
DE

00-25-37 (hex) Runcom Technologies Ltd.
002537 (base 16) Runcom Technologies Ltd.
11 Moshe Levi Str. 11th Flr.
Rishon Le Zion 75658
IL

00-25-38 (hex) Samsung Electronics Co., Ltd., Memory Division
002538 (base 16) Samsung Electronics Co., Ltd., Memory Division
San #16 Banwol-Dong, Taean-Gu
Hwasung City Gyeonggi Do 445-701
KR

00-25-44 (hex) LoJack Corporation
002544 (base 16) LoJack Corporation

780 Dedham Street
Canton MA 02021
US

00-25-32 (hex) Digital Recorders
002532 (base 16) Digital Recorders
4018 Patriot Drive
Durham NC 27709
US

00-24-F8 (hex) Technical Solutions Company Ltd.
0024F8 (base 16) Technical Solutions Company Ltd.
Box 31750
Whitehorse Yukon Y1A 6L3
CA

00-24-F9 (hex) Cisco Systems, Inc
0024F9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-24-F2 (hex) Uniphone
Telecommunication Co., Ltd.
0024F2 (base 16) Uniphone Telecommunication Co., Ltd.
No. 25, Chu-Kung 3rd Lane, Chu-Hou Tsung, Jen-Wu Hsiang,
Kaohsiung Hsien 81448
TW

00-25-07 (hex) ASTAK Inc.
002507 (base 16) ASTAK Inc.
1911 Hartog Drive
San Jose CA 95131
US

00-25-02 (hex) NaturalPoint
002502 (base 16) NaturalPoint
PO Box 2317
Corvallis OR 97339
US

00-25-1A (hex) Psiber Data Systems Inc.
00251A (base 16) Psiber Data Systems Inc.
7075-K Mission Gorge Rd
San Diego CA 92120
US

00-25-14 (hex) PC Worth Int'l Co., Ltd.

002514 (base 16) PC Worth Int'l Co., Ltd.
18F, No.100, Sec. 1, Xintai 5th Rd., Xizhi Dist.,
New Taipei City Taipei 22102
TW

00-25-0B (hex) CENTROFACTOR INC
00250B (base 16) CENTROFACTOR INC
Road Town, Tortola, P.O.Box 3161,
Tortola 194295
VG

00-25-06 (hex) A.I. ANTITACCHEGGIO ITALIA SRL
002506 (base 16) A.I. ANTITACCHEGGIO ITALIA SRL
VICOLO
DELLE DAME 4
BOLOGNA 40124
IT

00-24-EE (hex) Wynmax Inc.
0024EE (base 16) Wynmax Inc.
18F., No. 75, Sec. 1, XinTai 5th Rd.,
Xizhi City, Taipei County 221
TW

00-24-E3 (hex) CAO Group
0024E3 (base 16) CAO Group
4628 West Skyhawk Drive
West Jordan UT 84084
US

00-25-1C (hex) EDT
00251C (base 16) EDT
1400 SW Compton
Beaverton OR 97008
US

00-24-69 (hex) Fasttel - Smart Doorphones
002469 (base 16) Fasttel - Smart Doorphones
Klipsenstraat 18A
Lokeren 9160
BE

00-24-64 (hex) Bridge Technologies Co AS
002464 (base 16) Bridge Technologies Co AS
Mølleparken 4
Oslo 0459
NO

00-24-62 (hex) Rayzone Corporation
002462 (base 16) Rayzone Corporation
#2008, B-Dong, Samho BLDG
Seoul 137-941
KR

00-24-75 (hex) Compass System(Embedded Dept.)
002475 (base 16) Compass System(Embedded Dept.)
1403 ACE TechnoTower 8th
Seoul 152-050
KR

00-24-6F
(hex) Onda Communication spa
00246F (base 16) Onda Communication spa
via del lavoro 9
pordenone 33170
IT

00-24-9D (hex) NES Technology Inc.
00249D (base 16) NES Technology Inc.
#205 ACE Technotower 10, 470-5 Gasan-dong
Seoul 153-789
KR

00-24-8E (hex) Infoware ZRt.
00248E (base 16) Infoware ZRt.
Huseg u. 10/a
Budapest 1223
HU

00-24-94 (hex) Shenzhen Baoxin Tech CO., Ltd.
002494 (base 16) Shenzhen Baoxin Tech CO., Ltd.
6F Huale BLDG., Zhonghangbei Rd.,
Shenzhen GuangDong 518028
CN

00-24-E1 (hex) Convey Computer Corp.
0024E1 (base 16) Convey Computer Corp.
1302 E. Collins Blvd.
Richardson TX 75081
US

00-24-D9 (hex) BICOM, Inc.
0024D9 (base 16) BICOM, Inc.
755 Main Street
Monroe CT 06468
US

00-24-89 (hex) Vodafone Omnitel N.V.
002489 (base 16) Vodafone Omnitel N.V.
Via Jervis 13
10015 Ivrea Torino
IT

00-24-7F (hex) Nortel
Networks
00247F (base 16) Nortel Networks
2221 Lakeside Blvd
Richardson TX 75081
US

00-24-B5 (hex) Nortel Networks
0024B5 (base 16) Nortel Networks
2221 Lakeside Blvd
Richardson TX 75081
US

00-24-B0 (hex) ESAB AB
0024B0 (base 16) ESAB AB
Box 8004
Göteborg SE-402 77
SE

00-24-C3 (hex) Cisco Systems, Inc
0024C3 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-24-C4 (hex) Cisco Systems, Inc
0024C4 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-23-FD (hex) AFT Atlas Fahrzeugtechnik GmbH
0023FD (base 16) AFT Atlas Fahrzeugtechnik GmbH
Gewerbestraße 14
Werdohl 58791
DE

00-23-EF (hex) Zuend Systemtechnik AG
0023EF (base 16) Zuend Systemtechnik AG
Industriestrasse 8
Altstaetten SG 9450

CH

00-24-13 (hex) Cisco Systems, Inc
002413 (base 16) Cisco Systems, Inc
80 West
Tasman Drive
San Jose CA 94568
US

00-24-0E (hex) Inventec Besta Co., Ltd.
00240E (base 16) Inventec Besta Co., Ltd.
10FL, No.36, Lane 513, Rui Guang Road, Nei Hu Dist.
Taipei 114
TW

00-24-05 (hex) Dilog Nordic AB
002405 (base 16) Dilog Nordic AB
Faktorvägen 9
Kungsbacka Halland 439 34
SE

00-24-20 (hex) NetUP Inc.
002420 (base 16) NetUP Inc.
Olof Palme st., 1, sect. 7
Moscow 119311
RU

00-24-1E (hex) Nintendo Co., Ltd.
00241E (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-24-1F (hex) DCT-Delta GmbH
00241F (base 16) DCT-Delta GmbH
Bodanrückstraße 1
Bodman - Ludwigshafen Baden-Württemberg 78351
DE

00-23-E8 (hex) Demco Corp.
0023E8 (base 16) Demco Corp.
#919, Doosan Venturedigm, 126-1
Anyang-Si Kyungki-Do 431-070
US

00-23-E3 (hex) Microtronic AG
0023E3 (base 16) Microtronic AG
Duennernstrasse

Oensingen Solothurn 4702
CH

00-24-60 (hex) Giaval Science Development Co. Ltd.
002460 (base 16) Giaval Science Development Co. Ltd.
58 Bei Si Huan Xi Rd
Beijing 100080
CN

00-24-5C (hex) Design-Com Technologies Pty. Ltd.
00245C (base 16) Design-Com Technologies Pty. Ltd.
14 Redland Drive
Mitcham Victoria 3132
AU

00-24-4F (hex) Asantron Technologies Ltd.
00244F (base 16) Asantron Technologies Ltd.
3F-1, No.30 Jihe Rd., 111
Taipei 11166
TW

00-24-44 (hex) Nintendo Co., Ltd.
002444 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-24-3D (hex) Emerson Appliance Motors and Controls
00243D (base 16) Emerson Appliance Motors and Controls
1901 South St.
Elgin IL 60123
US

00-24-37 (hex) Motorola - BSG
002437 (base 16) Motorola - BSG
1101 Marina Village Pkwy
Alameda CA 94501
US

00-23-5B
(hex) Gulfstream
00235B (base 16) Gulfstream
32 Lummus Drive
Savannah GA 31407
US

00-23-59 (hex) Benchmark Electronics (Thailand) Public Company Limited

002359 (base 16) Benchmark Electronics (Thailand) Public Company Limited
94 Moo 1, Hi-Tech Industrial Estate
Bang Pa-in Ayudhaya 13160
TH

00-23-57 (hex) Pitronot Technologies and Engineering P.T.E. Ltd.
002357 (base 16) Pitronot Technologies and Engineering P.T.E. Ltd.
8 Hatut st
Pardesiya 42815
IL

00-23-55 (hex) Kinco Automation(Shanghai) Ltd.
002355 (base 16) Kinco Automation(Shanghai) Ltd.
Bldg1, No.1387, Zhangdong Road,
Shanghai 201203
CN

00-23-73 (hex) GridIron Systems, Inc.
002373 (base 16) GridIron Systems, Inc.
726 Palomar Ave
Sunnyvale CA 94085
US

00-23-67 (hex) UniControls a.s.
002367 (base 16) UniControls a.s.
Krenicka 2257
Prague 10 100 00
CZ

00-23-68 (hex) Zebra Technologies Inc
002368
(base 16) Zebra Technologies Inc
475 Half Day Road
Lincolnshire IL 60069
US

00-23-6E (hex) Burster GmbH & Co KG
00236E (base 16) Burster GmbH & Co KG
Talstraße 1-5
Gernsbach Baden-Württemberg 76593
DE

00-23-66 (hex) Beijing Siasun Electronic System Co.,Ltd.
002366 (base 16) Beijing Siasun Electronic System Co.,Ltd.
Rm.1018 Huatian Bldg, No.6 Bei Xiaomachang
Beijing 100038
CN

00-23-9F (hex) Institut für Prüftechnik
00239F (base 16) Institut für Prüftechnik
Schulstraße 3
Todtenweis Bayern 86447
DE

00-23-9D (hex) Mapower Electronics Co., Ltd
00239D (base 16) Mapower Electronics Co., Ltd
No. 50 Minquan Road
Taoyuan County 33846
TW

00-23-98 (hex) Vutlan sro
002398 (base 16) Vutlan sro
ul. Svornosti 43
Bratislava BA 82 106
SK

00-23-DD (hex) ELGIN S.A.
0023DD (base 16) ELGIN S.A.
RUA BARAO DE CAMPINAS, 305
São Paulo 01201-901
BR

00-23-DE
(hex) Ansync Inc.
0023DE (base 16) Ansync Inc.
4970 Robert J Matthews Pky
El Dorado Hills CA 95762
US

00-23-D9 (hex) Banner Engineering
0023D9 (base 16) Banner Engineering
9714 10th Ave. N.
Plymouth MN 55441
US

00-23-DA (hex) Industrial Computer Source (Deutschland)GmbH
0023DA (base 16) Industrial Computer Source (Deutschland)GmbH
Marie-Curie-Straße 9
Pulheim NRW 50259
DE

00-23-D8 (hex) Ball-It Oy
0023D8 (base 16) Ball-It Oy
Uusikatu 24 G 76
Oulu 90100
FI

00-23-8F (hex) NIDEC COPAL CORPORATION
00238F (base 16) NIDEC COPAL CORPORATION
2-18-10,SHIMURA
ITABASHI-KU TOKYO 174-8550
JP

00-23-AC (hex) Cisco Systems, Inc
0023AC (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-23-80 (hex) Nanoteq
002380 (base 16) Nanoteq
PO Box 7991
Centurion Gauteng 0046
ZA

00-23-B7 (hex) Q-Light Co., Ltd.
0023B7
(base 16) Q-Light Co., Ltd.
178-1 Woogye-Ri, Sangdong-Myun,
Gimhae-Si GyungsangNam-Do 621-812
KR

00-23-1E (hex) Cezzer Multimedia Technologies
00231E (base 16) Cezzer Multimedia Technologies
Pépinière d'entreprises CREATIC
Plouzané 29280
FR

00-23-1F (hex) Guangda Electronic & Telecommunication Technology Development Co., Ltd.
00231F (base 16) Guangda Electronic & Telecommunication Technology Development Co., Ltd.
#8 Gaopengdong Road, Gaoxin District
Chengdu Sichuan 610041
CN

00-22-70 (hex) ABK North America, LLC
002270 (base 16) ABK North America, LLC
440 North Wolfe Rd.
Sunnyvale CA 94085
US

00-23-13 (hex) Qool Technologies Ltd.
002313 (base 16) Qool Technologies Ltd.
Gotanda Chuo Bldg 8f, 2-3-5
Shinagawa-ku Tokyo 141-0022

JP

00-23-10 (hex) LNC Technology Co., Ltd.
002310 (base 16) LNC Technology Co., Ltd.
19F, No. 78-2, Sec. 3, Taichung Kang Rd.
Taichung
40764
TW

00-23-0C (hex) CLOVER ELECTRONICS CO.,LTD.
00230C (base 16) CLOVER ELECTRONICS CO.,LTD.
AKENO 306-1
ISE City MIE Prefecture 519-0501
JP

00-22-CD (hex) Ared Technology Co., Ltd.
0022CD (base 16) Ared Technology Co., Ltd.
6F-8 No.83 Sec.1, Nankan Rd. Luzhu Shiang
Taoyuan County Taiwan 33859
TW

00-22-CC (hex) SciLog, Inc.
0022CC (base 16) SciLog, Inc.
8845 South Greenview Drive
Middleton Wisconsin 53562
US

00-22-CB (hex) IONODES Inc.
0022CB (base 16) IONODES Inc.
4001 boulevard Industriel
Laval Quebec H7L4S3
CA

00-22-C6 (hex) Sutus Inc
0022C6 (base 16) Sutus Inc
301-3999 Henning Drive
Burnaby British Columbia V5C 6P9
CA

00-22-EF (hex) iWDL Technologies
0022EF (base 16) iWDL Technologies
10522 Meinert Rd
Wexford PA 15090
US

00-22-F2 (hex) SunPower Corp
0022F2 (base 16) SunPower Corp
1414 Harbour Way South

Richmond CA
94804
US

00-22-E8 (hex) Applition Co., Ltd.
0022E8 (base 16) Applition Co., Ltd.
509-1, Bundang Techno Park D-dong,
SeongNam Kyunggi-do 463-760
KR

00-22-E9 (hex) ProVision Communications
0022E9 (base 16) ProVision Communications
1 Portland Square
Bristol BS2 8RR
GB

00-22-E6 (hex) Intelligent Data
0022E6 (base 16) Intelligent Data
Edf. Inverinnova – Avda. Punto Mobi, 4. Parque Científico Tecnológico
Alcalá de Henares Madrid 28805
ES

00-22-C8 (hex) Applied Instruments B.V.
0022C8 (base 16) Applied Instruments B.V.
Dynamoweg 3
Vlissingen Zeeland NL-4382WZ
NL

00-22-C0 (hex) Shenzhen Forcelink Electronic Co, Ltd
0022C0 (base 16) Shenzhen Forcelink Electronic Co, Ltd
2nd and 3rd floor, Hasse manufacture building, Hasee industrial park
Shenzhen Guangdong 518112
CN

00-23-01 (hex) Witron Technology Limited
002301 (base 16) Witron Technology Limited
6/F, Xin Rui Building,
32 Tao Hua Road, Futian Free Trade Zone,
Shenzhen 86
CN

00-22-F7 (hex) Conceptronic
0022F7 (base 16) Conceptronic
Databankweg 7
AMERSFOORT utrecht 3821 AL
NL

00-22-EB (hex) Data Respons A/S

0022EB (base 16) Data Respons A/S
Ellekær 6
Herlev 2730
DK

00-23-1B (hex) Danaher Motion - Kollmorgen
00231B (base 16) Danaher Motion - Kollmorgen
201 W. Rock Road
Radford VA 24141
US

00-23-34 (hex) Cisco Systems, Inc
002334 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-22-E3 (hex) Amerigon
0022E3 (base 16) Amerigon
21680 Haggerty Road
Northville Michigan 48167
US

00-22-E2 (hex) WABTEC Transit Division
0022E2 (base 16) WABTEC Transit Division
130 Ridgeview Circle
Duncan SC 29334
US

00-23-3F (hex) Purechoice Inc
00233F (base 16) Purechoice Inc
11481 Rupp Drive
Burnsville MN 55337
US

00-22-37
(hex) Shinhint Group
002237 (base 16) Shinhint Group
Unit 1506, 15/F, Nanyang Plaza,, 57 Hung To Road,

HK

00-22-2F (hex) Open Grid Computing, Inc.
00222F (base 16) Open Grid Computing, Inc.
4030-1 West Braker Lane STE130
Austin TX 78759
US

00-22-A6 (hex) Sony Computer Entertainment America
0022A6 (base 16) Sony Computer Entertainment America
919 East Hillsdale Blvd
Foster City California 94404-2175
US

00-22-A7 (hex) Tyco Electronics AMP GmbH
0022A7 (base 16) Tyco Electronics AMP GmbH
Amperestraße 12-14
Bensheim Hessen 64625
DE

00-22-A1 (hex) Huawei Symantec Technologies Co.,Ltd.
0022A1 (base 16) Huawei Symantec Technologies Co.,Ltd.
Building 1,The West Zone Science Park of UESTC,No.88,Tianchen Road
Chengdu Sichuan 611731
CN

00-22-78 (hex) Shenzhen Tongfang Multimedia Technology Co.,Ltd.
002278 (base 16) Shenzhen Tongfang Multimedia Technology Co.,Ltd.
2f Sector
D of TongFang Information Harbor
Nanshan District, Shenzhen GuangDong 518058
CN

00-22-7A (hex) Telecom Design
00227A (base 16) Telecom Design
Za Remora
33170 Gradignan
FR

00-22-6F (hex) 3onedata Technology Co. Ltd.
00226F (base 16) 3onedata Technology Co. Ltd.
3/F, B/2, Jiuxiangling Industrial District, Xili Town, Nanshan District,
Shenzhen Guangdong 518055
CN

00-22-60 (hex) AFREEY Inc.
002260 (base 16) AFREEY Inc.
6F, No.249, Chien I Road
Chung Ho City Taipei County 235
TW

00-22-9D (hex) PYUNG-HWA IND.CO.,LTD
00229D (base 16) PYUNG-HWA IND.CO.,LTD
230-1
HWASUNG-SI KYUNGGI-DO 445-912
KR

00-22-96 (hex) LinoWave Corporation
002296 (base 16) LinoWave Corporation
1001-101 Champlain Avenue
Burlington Ontario L7L 5Z4
CA

00-22-3E (hex) IRTrans GmbH
00223E (base 16) IRTrans GmbH
Einsteinstrasse 14
Unterschleissheim BAYERN 85716
DE

00-22-50
(hex) Point Six Wireless, LLC
002250 (base 16) Point Six Wireless, LLC
2333 Alumni Park Plaza
Lexington KY 40517
US

00-22-44 (hex) Chengdu Linkon Communications Device Co., Ltd
002244 (base 16) Chengdu Linkon Communications Device Co., Ltd
5f-02, Juntong Building, No. 53,Shuangfeng Road, Wuhou District,
Chengdu Sichuan 610041
CN

00-21-CA (hex) ART System Co., Ltd.
0021CA (base 16) ART System Co., Ltd.
Mobile Techno Bldg Room 910
Dae-Gu 702-020
KR

00-21-CB (hex) SMS TECNOLOGIA ELETRONICA LTDA
0021CB (base 16) SMS TECNOLOGIA ELETRONICA LTDA
Av. Pirâmide, 661
DIADEMA São Paulo 09970330
BR

00-21-C8 (hex) LOHUIS Networks
0021C8 (base 16) LOHUIS Networks
2681 TV Monster
Votlaan 408 Votlaan 31
NL

00-21-BF (hex) Hitachi High-Tech Control Systems Corporation
0021BF (base 16) Hitachi High-Tech Control Systems Corporation
500,Miyu-cho
Mito-shi Ibaraki-ken 319-0316

JP

00-21-BC
(hex) ZALA COMPUTER
0021BC (base 16) ZALA COMPUTER
EL BOUNI
ANNABA 23000
DZ

00-21-EF (hex) Kapsys
0021EF (base 16) Kapsys
790 Av du Docteur Maurice Donat
06250 Mougins Sophia Antipolis
FR

00-21-ED (hex) Telegesis
0021ED (base 16) Telegesis
84 Station Road
Marlow Bucks SL7 1NX
GB

00-21-EB (hex) ESP SYSTEMS, LLC
0021EB (base 16) ESP SYSTEMS, LLC
1422 East Fourth Street
Charlotte NC 28204
US

00-21-DF (hex) Martin Christ GmbH
0021DF (base 16) Martin Christ GmbH
An der Unteren Soese 50
Osterode Niedersachsen 37520
DE

00-21-D4 (hex) Vollmer Werke GmbH
0021D4 (base 16) Vollmer Werke GmbH
Maschinenfabrik
Biberach Baden-Württemberg 88400
DE

00-21-D6 (hex) LXI Consortium
0021D6 (base 16) LXI Consortium
P.O. Box 1016
Niwot CO 80544-1016
US

00-21-CE (hex) NTC-Metrotek
0021CE (base 16) NTC-Metrotek
9, Nevzorovoy

street
Saint-Petersburg 192148
RU

00-22-06 (hex) Cyberdyne Inc.
002206 (base 16) Cyberdyne Inc.
504 @C49-2
Tsukuba-shi Ibaraki-ken 305-0817
JP

00-22-02 (hex) Excito Elektronik i Skåne AB
002202 (base 16) Excito Elektronik i Skåne AB
Box 126
Löddeköpinge 246 22
SE

00-21-F6 (hex) Oracle Corporation
0021F6 (base 16) Oracle Corporation
900 Chelmsford Street
Lowell MA 01851
US

00-21-DB (hex) Santachi Video Technology (Shenzhen) Co., Ltd.
0021DB (base 16) Santachi Video Technology (Shenzhen) Co., Ltd.
Santachi Building,#14 Kaifeng Road,Meilin,
Shenzhen Guangdong 518049
CN

00-22-20 (hex) Mitac Technology Corp
002220 (base 16) Mitac Technology Corp
9th Fl., #75, Min-sheng E. Road, Sec. 3,
Taipei 104
TW

00-22-27 (hex) uv-electronic GmbH
002227 (base 16) uv-electronic GmbH
Grosswiesenstraße 20
Durchhausen Baden-Württemberg 78591
DE

00-21-B4
(hex) APRO MEDIA CO., LTD
0021B4 (base 16) APRO MEDIA CO., LTD
#13-5,Dodang-Dong,Wonmi-Gu,
Bucheon-City Kyunggi-Do 420-801
KR

00-21-A8 (hex) Telephonics Corporation

0021A8 (base 16) Telephonics Corporation
815 Broad Hollow Road
Farmingdale New York 11790
US

00-21-A9 (hex) Mobilink Telecom Co.,Ltd
0021A9 (base 16) Mobilink Telecom Co.,Ltd
292-3 Sindang-ri, Sandong-myun
Gumi Gyeongbuk 730-853
KR

00-22-0E (hex) Indigo Security Co., Ltd.
00220E (base 16) Indigo Security Co., Ltd.
2nd Floor, 277-169 Sungsoo2-Ga, Sungdong-Gu
Seoul 133-832
KR

00-22-07 (hex) Inteno Broadband Technology AB
002207 (base 16) Inteno Broadband Technology AB
Stensätravägen 13
Skärholmen SE 127 39
SE

00-22-25 (hex) Thales Avionics Ltd
002225 (base 16) Thales Avionics Ltd
86 Bushey Road
London SW20 0JW
GB

00-22-1E (hex) Media Devices Co., Ltd.
00221E (base 16) Media Devices
Co., Ltd.
Rm1002 Ace TechnoTower(9th) 345-30
Seoul 153-802
KR

00-21-3B (hex) Berkshire Products, Inc
00213B (base 16) Berkshire Products, Inc
PO Box 2819
Cumming GA 30028
US

00-21-37 (hex) Bay Controls, LLC
002137 (base 16) Bay Controls, LLC
6528 Weatherfield Ct
Maumee OH 43537
US

00-21-39 (hex) Escherlogic Inc.
002139 (base 16) Escherlogic Inc.
1481 Rosebank Rd.
Pickering Ontario L1V 1P3
CA

00-21-5E (hex) IBM Corp
00215E (base 16) IBM Corp
3039 E Cornwallis Road
Research Triangle Park NC 27709-2195
US

00-21-55 (hex) Cisco Systems, Inc
002155 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-21-57 (hex) National Datacast, Inc.
002157 (base 16) National Datacast, Inc.
2100 Crystal Drive, Suite 750
Arlington VA 22202
US

00-21-4D (hex) Guangzhou Skytone Transmission Technology Com. Ltd.
00214D (base 16) Guangzhou
Skytone Transmission Technology Com. Ltd.
3/F West, Block 4, Huangzhou
Guangzhou Guangdong 510660
CN

00-21-50 (hex) EYEVIEW ELECTRONICS
002150 (base 16) EYEVIEW ELECTRONICS
3 Floor, No. 86, Kung Yeh 32 Road
TAICHUNG 407
TW

00-21-74 (hex) AvaLAN Wireless
002174 (base 16) AvaLAN Wireless
958 San Leandro Ave, Suite 900
Mountain View CA 94043
US

00-21-79 (hex) IOGEAR, Inc.
002179 (base 16) IOGEAR, Inc.
23 Hubble
Irvine CA 92618
US

00-21-2C (hex) SemIndia System Private Limited
00212C (base 16) SemIndia System Private Limited
No. 1106/9, A.M Industrial Estate, Garvebhavipalya
Bangalore Karnataka 560 068
IN

00-21-2B (hex) MSA Auer
00212B (base 16) MSA Auer
Thiemannstraße 1
Berlin 12059
DE

00-21-2A (hex) Audiovox Corporation
00212A (base 16) Audiovox Corporation
150 Marcus Blvd
Hauppauge NY 11788
US

00-21-96 (hex) Telsey S.p.A.
002196
(base 16) Telsey S.p.A.
Viale dell'Industria, 1
Quinto DiTreviso 31055
IT

00-21-8D (hex) AP Router Ind. Eletronica LTDA
00218D (base 16) AP Router Ind. Eletronica LTDA
Av. Lomanto Junior, 1000
Ilheus Bahia 45654-000
BR

00-21-90 (hex) Goliath Solutions
002190 (base 16) Goliath Solutions
3082 Sterling Circle
Boulder Colorado 80301
US

00-21-85 (hex) MICRO-STAR INT'L CO.,LTD.
002185 (base 16) MICRO-STAR INT'L CO.,LTD.
No.69,Li-De St,Jung-Ho City
Taipei Hsien 235
TW

00-21-82 (hex) SandLinks Systems, Ltd.
002182 (base 16) SandLinks Systems, Ltd.
P.O.Box 4629
Petah-Tiqwa Israel 49277

IL

00-21-83 (hex) ANDRITZ HYDRO GmbH
002183 (base 16) ANDRITZ HYDRO GmbH
Eibesbrunnergasse 20
Vienna 1120
AT

00-21-A6 (hex) Videotec Spa
0021A6 (base 16) Videotec Spa
Via Friuli,6
Schio Vicenza 36015
IT

00-21-9F (hex) SATEL OY
00219F (base
16) SATEL OY
Meriniitynkatu 17
SALO Lansi-Suomen Laani 24100
FI

00-21-68 (hex) iVeia, LLC
002168 (base 16) iVeia, LLC
51 Franklin Street
Annapolis MD 21401
US

00-1F-DD (hex) GDI LLC
001FDD (base 16) GDI LLC
One MidAmerica Plaza
Oakbrook Terrace IL 60181
US

00-1F-DA (hex) Nortel Networks
001FDA (base 16) Nortel Networks
2221 Lakeside Blvd
Richardson TX 75081
US

00-1F-B0 (hex) TimeIPS, Inc.
001FB0 (base 16) TimeIPS, Inc.
3522 N Comotara St
Wichita KS 67226
US

00-1F-D9 (hex) RSD Communications Ltd
001FD9 (base 16) RSD Communications Ltd
8 Borrowmeadow Road

Stirling Scotland FK7 7UW
GB

00-1F-CE (hex) QTECH LLC
001FCE (base 16) QTECH LLC
Novozavodskaya st. 18 build. 1
Moscow Moscow region 121309
RU

00-1F-F0 (hex) Audio Partnership
001FF0 (base 16) Audio Partnership
Gallery Court
London SE1 4BB
GB

00-1F-EA (hex) Applied
Media Technologies Corporation
001FEA (base 16) Applied Media Technologies Corporation
4091 AMTC Center Drive
Clearwater FL 33764
US

00-1F-E9 (hex) Printrex, Inc.
001FE9 (base 16) Printrex, Inc.
276 East Gish Road
San Jose CA 95112
US

00-21-10 (hex) Clearbox Systems
002110 (base 16) Clearbox Systems
Suite 2, Level 2
Macquarie Park NSW 2113
AU

00-21-0C (hex) Cymtec Systems, Inc.
00210C (base 16) Cymtec Systems, Inc.
10845 Olive Bouleveard
St Louis MO 63141
US

00-21-0B (hex) GEMINI TRAZE RFID PVT. LTD.
00210B (base 16) GEMINI TRAZE RFID PVT. LTD.
1, DR. RANGA ROAD
CHENNAI TAMILNADU 600018
IN

00-21-04 (hex) Gigaset Communications GmbH
002104 (base 16) Gigaset Communications GmbH

Frankenstrasse 2
46395 Bocholt
DE

00-1F-FB (hex) Green Packet Bhd
001FFB (base 16) Green Packet Bhd
Lot 1-4, Incubator 2, Technology Park Malaysia
Kuala Lumpur
Wilayah Persekutuan 57000
MY

00-1F-85 (hex) Apriva ISS, LLC
001F85 (base 16) Apriva ISS, LLC
6900 E Camelback Rd
Scottsdale AZ 85251
US

00-1F-87 (hex) Skydigital Inc.
001F87 (base 16) Skydigital Inc.
#28-9 Wonhyoro1-ga, Yongsan-gu,
Seoul 140-846
KR

00-1F-88 (hex) FMS Force Measuring Systems AG
001F88 (base 16) FMS Force Measuring Systems AG
Aspstrasse 6
Oberglatt Zurich 8154
CH

00-1F-86 (hex) digEcor
001F86 (base 16) digEcor
1625 N. 1100 W.
Springville UT 84663
US

00-1F-80 (hex) Lucas Holding bv
001F80 (base 16) Lucas Holding bv
Domein 28
Gemert NB 5421AR
NL

00-1B-58 (hex) ACE CAD Enterprise Co., Ltd.
001B58 (base 16) ACE CAD Enterprise Co., Ltd.
2F, No. 94, Bao Chung Road,
Hsin Tien City, Taipei Hsien 23144
TW

00-1F-A5 (hex) Blue-White Industries

001FA5 (base 16) Blue-White Industries
5300 Business Drive
Huntington Beach
CA 92649
US

00-1F-9D (hex) Cisco Systems, Inc
001F9D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1F-9F (hex) Thomson Telecom Belgium
001F9F (base 16) Thomson Telecom Belgium
Prins Boudewijnlaan 47
Edegem Antwerp B-2650
BE

00-1F-A1 (hex) Gtran Inc
001FA1 (base 16) Gtran Inc
2651 Lavery Court
Newbury Park CA 91320
US

00-1F-99 (hex) SERONICS co.ltd
001F99 (base 16) SERONICS co.ltd
#401 Technopolis,
Daegu Gyeong-buk 704-230
KR

00-1F-79 (hex) Lodam Electronics A/S
001F79 (base 16) Lodam Electronics A/S
Kærvej 77
Sønderborg Als DK-6400
DK

00-1F-71 (hex) xG Technology, Inc.
001F71 (base 16) xG Technology, Inc.
240 S. Pineapple Avenue
Sarasota FL 34236
US

00-1F-6C (hex) Cisco Systems, Inc
001F6C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1F-6F (hex) Fujian Sunnada Communication
Co.,Ltd.
001F6F (base 16) Fujian Sunnada Communication Co.,Ltd.
7/F Main Building,Fujian Torch Hi-Tech Innovation Park No.611 Industrial Road,Fuzhou Fuzhou Fujian China
350002
Fuzhou Fujian 350002
CN

00-1F-60 (hex) COMPASS SYSTEMS CORP.
001F60 (base 16) COMPASS SYSTEMS CORP.
6F, No. 413, Sec. 2, Ti-Ding Blvd.,
Taipei NeihuDist 114
TW

00-1F-6A (hex) PacketFlux Technologies, Inc.
001F6A (base 16) PacketFlux Technologies, Inc.
50 11th Avenue
Helena MT 59601
US

00-1F-65 (hex) KOREA ELECTRIC TERMINAL CO., LTD.
001F65 (base 16) KOREA ELECTRIC TERMINAL CO., LTD.
#7-38 SONGDO-DONG
YEONSU-GU INCHEON 406-840
KR

00-1F-5E (hex) Dyna Technology Co.,Ltd.
001F5E (base 16) Dyna Technology Co.,Ltd.
HaoHai Building 1F,No.7,5th Street,Shangdi,
Beijing 100085
CN

00-1F-55 (hex) Honeywell Security (China) Co., Ltd.
001F55 (base 16) Honeywell Security (China) Co., Ltd.
Block
28, Section 2, Huai De Cui Gang Industrial Estate, Fu Yong, Bao An, ShenZhen, P.R. China
ShenZhen GuangDong 518103
CN

00-1F-54 (hex) Lorex Technology Inc.
001F54 (base 16) Lorex Technology Inc.
250 Royal Crest Court
Markham Ontario L3R3S1
CA

00-1F-4B (hex) Lineage Power
001F4B (base 16) Lineage Power
3000 Skyline Dr.

Mesquite TX 75149
US

00-1F-40 (hex) Speakercraft Inc.
001F40 (base 16) Speakercraft Inc.
5919 Sea Otter Place
Carlsbad CA 92010
US

00-1F-2E (hex) Triangle Research Int'l Pte Ltd
001F2E (base 16) Triangle Research Int'l Pte Ltd
10 Ubi Crescent #05-83
Ubi Techpark SG 408664
SG

00-1F-23 (hex) Interacoustics
001F23 (base 16) Interacoustics
Drejervaenget 8
Assens DK 5610
DK

00-1F-96 (hex) APROTECH CO.LTD
001F96 (base 16) APROTECH CO.LTD
KOLONDIGITAL TOWER ASTON 201, 505-14
SEOUL KSXX 0022
KR

00-1F-8B (hex) Cache IQ
001F8B
(base 16) Cache IQ
8834 North Capital of Texas Hwy
Austin Texas 78759
US

00-1F-AE (hex) Blick South Africa (Pty) Ltd
001FAE (base 16) Blick South Africa (Pty) Ltd
PO Box 1908
Johannesburg Gauteng 2108
ZA

00-1E-FA (hex) PROTEI Ltd.
001EFA (base 16) PROTEI Ltd.
60A B.Sampsonievsky, Business Center
St.Petersburg RU 194044
RU

00-1E-FB (hex) Trio Motion Technology Ltd
001EFB (base 16) Trio Motion Technology Ltd

Shannon Way
Tewkesbury Gloucestershire GL20 8ND
GB

00-1E-F8 (hex) Emfinity Inc.
001EF8 (base 16) Emfinity Inc.
1305 Kelly Lake Road
Sudbury Ontario P3E5P5
CA

00-1E-E8 (hex) Mytek
001EE8 (base 16) Mytek
151 Lafayette Str 3 Fl
New York NY 10013
US

00-1E-EE (hex) ETL Systems Ltd
001EEE (base 16) ETL Systems Ltd
Coldwell Radio Station
Hereford Herefordshire HR2 9NE
GB

00-1E-B4 (hex) UNIFAT TECHNOLOGY LTD.
001EB4 (base 16) UNIFAT
TECHNOLOGY LTD.
7/FLOOR, SUI HONG IND. BLDG.,
KWAI CHUNG N.T.
HK

00-1E-A8 (hex) Datang Mobile Communications Equipment CO.,LTD
001EA8 (base 16) Datang Mobile Communications Equipment CO.,LTD
No.29,Xueyuan Rd.
Beijing 100083
CN

00-1E-AB (hex) TeleWell Oy
001EAB (base 16) TeleWell Oy
Alahotie 14 b
Jarvenpaa Uusimaa 04430
FI

00-1E-9F (hex) Visioneering Systems, Inc.
001E9F (base 16) Visioneering Systems, Inc.
5931 Sea Lion Place
Carlsbad California 92010
US

00-1F-17 (hex) IDX Company, Ltd.

001F17 (base 16) IDX Company, Ltd.
6-28-11 Shukugawara, Tana-ku
Kawasaki-Shi Kanagawa-Ken 2140021
JP

00-1F-1B (hex) RoyalTek Company Ltd.
001F1B (base 16) RoyalTek Company Ltd.
Suite 9F-1, No. 1071, Chung Cheng Rd.
Taoyuan Shien Taoyuan 330
TW

00-1E-D5 (hex) Tekon-Automatics
001ED5 (base 16) Tekon-Automatics
Zelenograd, 512-29
Moscow 124482
RU

00-1E-CB
(hex) RPC Energoautomatika Ltd
001ECB (base 16) RPC Energoautomatika Ltd
Krasnokazarmennaya st., 13/1
Moscow 111250
RU

00-1E-BA (hex) High Density Devices AS
001EBA (base 16) High Density Devices AS
Vestre Strandgate 26
Kristiansand 4611
NO

00-1E-FC (hex) JSC MASSA-K
001EFC (base 16) JSC MASSA-K
15, A, Pirogovskaya nab.
Saint-Petersburg Leningradskiy reg. 194044
RU

00-1F-06 (hex) Integrated Dispatch Solutions
001F06 (base 16) Integrated Dispatch Solutions
645 Mountain Ave
Wyckoff NJ 07481
US

00-1E-E0 (hex) Urmet SpA
001EE0 (base 16) Urmet SpA
Via Bologna 188/C
Torino TO I-10154
IT

00-1E-DA (hex) Wesemann Elektrotechniek B.V.
001EDA (base 16) Wesemann Elektrotechniek B.V.
Droogbloem 31
Rotterdam Zuid-Holland 3068 AW
NL

00-1E-D7 (hex) H-Stream Wireless, Inc.
001ED7 (base 16) H-Stream Wireless, Inc.
2595 East Bayshore Road
Palo
Alto CA 94303
US

00-1E-9B (hex) San-Eisha, Ltd.
001E9B (base 16) San-Eisha, Ltd.
2-1 Ebara 5-chome
Shinagawa-ku Tokyo 142-8611
JP

00-1E-96 (hex) Sepura Plc
001E96 (base 16) Sepura Plc
Radio House
Cambridge CAMBRIDGESHIRE CB4 1GR
GB

00-1F-0D (hex) L3 Communications - Telemetry West
001F0D (base 16) L3 Communications - Telemetry West
9020 Balboa Ave
San Diego CA 92123
US

00-1E-1B (hex) Digital Stream Technology, Inc.
001E1B (base 16) Digital Stream Technology, Inc.
4,5,6th Fl., TaeChang B/D, 451-1
Seoul 134-030
KR

00-1E-17 (hex) STN BV
001E17 (base 16) STN BV
Amerikaweg 4
Hulst Zeeland 4561 PB
NL

00-1E-18 (hex) Radio Activity srl
001E18 (base 16) Radio Activity srl
Via De Notaris 50
Milano MI 20128
IT

00-1E-15 (hex) Beech Hill Electronics
001E15 (base 16) Beech Hill Electronics
Beechcroft, Beech Hill Road
Reading Berkshire
RG7 2AU
GB

00-1E-05 (hex) Xseed Technologies & Computing
001E05 (base 16) Xseed Technologies & Computing
Topaz House, MATAM
Haifa 39100
IL

00-1E-07 (hex) Winy Technology Co., Ltd.
001E07 (base 16) Winy Technology Co., Ltd.
305-303, Bucheon Techno-park, #365
Bucheon Gyeonggi-do 421-741
KR

00-1E-0A (hex) Syba Tech Limited
001E0A (base 16) Syba Tech Limited
RM1301, Vanta Industrial Centre,
Kwai Chung
HK

00-1E-03 (hex) LiComm Co., Ltd.
001E03 (base 16) LiComm Co., Ltd.
908-1 SEO-RI, IDONG-MYEON
YONGIN-SI GYEONGGI-DO 449-834
KR

00-1E-71 (hex) MIrcom Group of Companies
001E71 (base 16) MIrcom Group of Companies
25 Interchange Way
Vaughan, Ontario l4K 5W3
CA

00-1E-6B (hex) Cisco SPVTG
001E6B (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

00-1E-70 (hex) Chelton Limited
001E70 (base 16) Chelton Limited
The Chelton

Centre, Fourth Avenue
Marlow Buckinghamshire SL7 1TF
GB

00-1E-61 (hex) ITEC GmbH
001E61 (base 16) ITEC GmbH
Lassnitzthal 300
A-8200 Gleisdorf
AT

00-1E-3E (hex) KMW Inc.
001E3E (base 16) KMW Inc.
65 Youngchun-ri, Dongtan-myun
Hwasung-si Kyungki-do 445-813
KR

00-1E-38 (hex) Bluecard Software Technology Co., Ltd.
001E38 (base 16) Bluecard Software Technology Co., Ltd.
D-801 Shangdi Science Building
Beijing 100085
CN

00-1E-59 (hex) Silicon Turnkey Express, LLC
001E59 (base 16) Silicon Turnkey Express, LLC
749 Miner Road
Highland Heights Ohio 44143
US

00-1E-51 (hex) Converter Industry Srl
001E51 (base 16) Converter Industry Srl
Via Euclide, 12
Forli' FC 47100
IT

00-1E-47 (hex) PT. Hariff Daya Tunggal Engineering
001E47 (base 16) PT. Hariff Daya Tunggal Engineering
Jl. Soekarno Hatta No. 450
Bandung Jawa Barat 40266
ID

00-1E-48 (hex) Wi-Links
001E48
(base 16) Wi-Links
332 Ayiou street
Limassol 3725
CY

00-1E-8A (hex) eCopy, Inc

001E8A (base 16) eCopy, Inc
1 Oracle Dr
Nashua NH 03062
US

00-1E-30 (hex) Shireen Inc
001E30 (base 16) Shireen Inc
8531 Ziggy Lane
Gaithersburg MD 20877
US

00-1E-2E (hex) SIRTI S.p.A.
001E2E (base 16) SIRTI S.p.A.
Via Bombrini 11/3
GENOA 16149
IT

00-1D-A6 (hex) Media Numerics Limited
001DA6 (base 16) Media Numerics Limited
Rodenbacher Chaussee 6
Hanau Hessen 63457
DE

00-1D-9D (hex) ARTJOY INTERNATIONAL LIMITED
001D9D (base 16) ARTJOY INTERNATIONAL LIMITED
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Shenzhen Guangdong 518001
CN

00-1D-9E (hex) AXION TECHNOLOGIES
001D9E (base 16) AXION TECHNOLOGIES
151 RUE PARC INNOVATION
LA POCATIERE QUEBEC G0R1Z0
US

00-1D-F8 (hex) Webpro Vision Technology Corporation
001DF8 (base 16) Webpro Vision
Technology Corporation
4F., No.573, Cingping Rd.
Anping District 708
TW

00-1D-F9 (hex) Cybiotronics (Far East) Limited
001DF9 (base 16) Cybiotronics (Far East) Limited
Unit 1906, Eastern Centre,
Quarry Bay
HK

00-1D-F7 (hex) R. STAHL Schaltgeräte GmbH
001DF7 (base 16) R. STAHL Schaltgeräte GmbH
am Bahnhof 30
Waldenburg Baden-Württemberg 74638
DE

00-1D-EB (hex) DINEC International
001DEB (base 16) DINEC International
Rue de la Gare, 30
BRAINE L'ALLEUD BRABANT WALLON 1420
BE

00-1D-9A (hex) GODEX INTERNATIONAL CO., LTD
001D9A (base 16) GODEX INTERNATIONAL CO., LTD
4F. NO.168, Lian-Cheng Road Chung-Ho City,
Taipei Hsien 235
US

00-1D-97 (hex) Alertus Technologies LLC
001D97 (base 16) Alertus Technologies LLC
11785 Beltsville Drive
Beltsville MD 20705
US

00-1D-91 (hex) Digitize, Inc
001D91 (base 16) Digitize, Inc
158 Edison Road
Lake Hopatcong
New Jersey 07849
US

00-1D-C4 (hex) AIOI Systems Co., Ltd.
001DC4 (base 16) AIOI Systems Co., Ltd.
KDX Omori, Bldg 8F
Tokyo 140-0016
JP

00-1D-C0 (hex) Enphase Energy
001DC0 (base 16) Enphase Energy
201 1st Street, Suite 111
Petaluma CA 94952
US

00-1D-BD (hex) Versamed Inc.
001DBD (base 16) Versamed Inc.
2 Blue Hill Plaza
Pearl River NY 10965
US

00-1D-DC (hex) HangZhou DeChangLong Tech&Info Co.,Ltd
001DDC (base 16) HangZhou DeChangLong Tech&Info Co.,Ltd
Room 1102,KeJi Mansion,
HangZhou ZheJiang 310012
CN

00-1D-B7 (hex) Tendril Networks, Inc.
001DB7 (base 16) Tendril Networks, Inc.
5700-D Flatiron Parkway
Boulder CO 80301
US

00-1D-AE (hex) CHANG TSENG TECHNOLOGY CO., LTD
001DAE (base 16) CHANG TSENG TECHNOLOGY CO., LTD
2F NO.160 BACK BUILDING, LEN CHENG RD., CHUNG HO CITY
TAIPEI HSIEN 235
TW

00-1D-7F (hex) Tekron International Ltd
001D7F
(base 16) Tekron International Ltd
409 Cuba Street, Alicetown
Lower Hutt Wellington 5010
NZ

00-1D-95 (hex) Flash, Inc.
001D95 (base 16) Flash, Inc.
3703 N. 200th St.
Elkhorn NE 68022-2922
US

00-1D-8D (hex) Fluke Process Instruments GmbH
001D8D (base 16) Fluke Process Instruments GmbH
Blankenburger Str. 135
Berlin 13127
DE

00-1D-1F (hex) Siauliu Tauro Televizoriai, JSC
001D1F (base 16) Siauliu Tauro Televizoriai, JSC
Pramones,15
Siauliai LT-57318
LT

00-1D-70 (hex) Cisco Systems, Inc
001D70 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568

US

00-1D-79 (hex) SIGNAMAX LLC
001D79 (base 16) SIGNAMAX LLC
1090 Vermont Avenue
Washington Washington D.C. 20005
US

00-1D-6F (hex) Chainzone Technology Co., Ltd
001D6F (base 16) Chainzone Technology Co., Ltd
Chainzone Tech. Ind Park, Nanxin 1st Rd.
Foshan Guangdong 528200
CN

00-1D-78
(hex) Invengo Information Technology Co.,Ltd
001D78 (base 16) Invengo Information Technology Co.,Ltd
3/F,No.T2-B,High-Tech Industrial Park South
Shenzhen Guangdong 518057
CN

00-1D-13 (hex) NextGTV
001D13 (base 16) NextGTV
13F Byucksan/Kyungin Digital Valley ll
Seoul 153-803
KR

00-1D-10 (hex) LightHaus Logic, Inc.
001D10 (base 16) LightHaus Logic, Inc.
126-1020 Mainland Street
Vancouver BC V6B 2T4
CA

00-1D-14 (hex) SPERADTONE INFORMATION TECHNOLOGY LIMITED
001D14 (base 16) SPERADTONE INFORMATION TECHNOLOGY LIMITED
Room 1001 NO.418 Gui Ping Road,
Shanghai 200233
CN

00-1D-43 (hex) Shenzhen G-link Digital Technology Co., Ltd.
001D43 (base 16) Shenzhen G-link Digital Technology Co., Ltd.
4F, E Building,Huachuang Da Technology Zone ,Hangcheng Highway,Gushu,Xixiang ,
shenzhen GuangDong 518126
CN

00-1D-3F (hex) Mitron Pty Ltd
001D3F (base 16) Mitron Pty Ltd
Unit

Artarmon NSW 2065
AU

00-1D-39 (hex) MOOHADIGITAL CO., LTD
001D39 (base 16) MOOHADIGITAL CO., LTD
Seoul Hightech Venture Center C-307 647-26
SEOUL 157-030
KR

00-1D-37 (hex) Thales-Panda Transportation System
001D37 (base 16) Thales-Panda Transportation System
6th floor, HUIJIE Plaza, 268 Zhongshan Rd.
nanjing jiangsu 210008
CN

00-1D-30 (hex) YX Wireless S.A.
001D30 (base 16) YX Wireless S.A.
Av. Vicuña Mackenna #4860
Santiago 8580710
US

00-1C-F2 (hex) Tenlon Technology Co.,Ltd.
001CF2 (base 16) Tenlon Technology Co.,Ltd.
4/F.,Shenhua Bldg,No.3155,Binhe Road,Futian District
Shenzhen Guangdong 518033
CN

00-1C-EC (hex) Mobilesoft (Aust.) Pty Ltd
001CEC (base 16) Mobilesoft (Aust.) Pty Ltd
Suite 2, 27-35 Grosvenor Street
Sydney NSW 2089
AU

00-1C-E8 (hex) Cummins Inc
001CE8 (base 16) Cummins Inc
1400 73rd Ave NE
Fridley MN 55432
US

00-1D-04
(hex) Zipit Wireless, Inc.
001D04 (base 16) Zipit Wireless, Inc.
49 Salters Road.
Greenville SC 29607
US

00-1D-62 (hex) InPhase Technologies

001D62 (base 16) InPhase Technologies
2000 Pike Road
Longmont Colorado 80501
US

00-1D-63 (hex) Miele & Cie. KG
001D63 (base 16) Miele & Cie. KG
Carl-Miele-Straße 29
Gütersloh 33332
DE

00-1C-C7 (hex) Rembrandt Technologies, LLC d/b/a REMSTREAM
001CC7 (base 16) Rembrandt Technologies, LLC d/b/a REMSTREAM
140 South Beverly Drive
Beverly Hills CA 90212
US

00-1C-BB (hex) MusicianLink
001CBB (base 16) MusicianLink
2401 Cory Ave.
San Jose CA 95128
US

00-1C-B2 (hex) BPT SPA
001CB2 (base 16) BPT SPA
Via Stazione,48
Sesto al Reghena Pordenone 33079
IT

00-1C-B5 (hex) Neihua Network Technology Co.,LTD.(NHN)
001CB5 (base 16) Neihua Network Technology Co.,LTD.(NHN)
Plot Xinmei Road 102-Q,New District
WuXi
Jiangsu 214028
CN

00-1C-5C (hex) Integrated Medical Systems, Inc.
001C5C (base 16) Integrated Medical Systems, Inc.
1984 Obispo Avenue
Signal Hill CA 90755
US

00-1C-52 (hex) VISIONEE SRL
001C52 (base 16) VISIONEE SRL
VIALE DELLA REPUBBLICA, 22
VILLORBA TREVISO 31050
IT

00-1C-47 (hex) Hangzhou Hollysys Automation Co., Ltd
001C47 (base 16) Hangzhou Hollysys Automation Co., Ltd
No.10 Middle Road, Jiancaicheng, Haidian District,
Beijing 100096
CN

00-1C-D0 (hex) Circleone Co.,Ltd.
001CD0 (base 16) Circleone Co.,Ltd.
860-1,Noda
Beppu-shi Ooita-ken 874-0016
JP

00-1C-CD (hex) Alektrona Corporation
001CCD (base 16) Alektrona Corporation
95 Hathaway Street, Suite 10
Providence RI 02907
US

00-1C-6C (hex) 30805
001C6C (base 16) 30805
128, Jun Cheng Road,uangzhou Economic and Technological Development District
Guangzhou Guangdong 510530
CN

00-1C-61 (hex) Galaxy
Microsystems LImited
001C61 (base 16) Galaxy Microsystems LImited
Room 1101-03, 11/F Enterprise Square Two
Kowloon Bay Kowloon
HK

00-1C-63 (hex) TRUEN
001C63 (base 16) TRUEN
4F SAMWON BLDG., 451-7
SEOUL 137-818
KR

00-1C-B4 (hex) Iridium Satellite LLC
001CB4 (base 16) Iridium Satellite LLC
8440 S. River Parkway
Tempe AZ 85284
US

00-1C-B6 (hex) Duzon CNT Co., Ltd.
001CB6 (base 16) Duzon CNT Co., Ltd.
14th Floor, IRE building 2
Seoul 150-967
KR

00-1C-9F (hex) Razorstream, LLC
001C9F (base 16) Razorstream, LLC
2381-C Renaissance Drive
Las Vegas NV 89119
US

00-1C-7D (hex) Excelpoint Manufacturing Pte Ltd
001C7D (base 16) Excelpoint Manufacturing Pte Ltd
15, Changi Business Park
486057
SG

00-1C-77 (hex) Prodys
001C77 (base 16) Prodys
C/Trigo 54 Pol. Ind. Polvoranca
Leganes MADRID 28914
ES

00-1C-6F (hex) Emfit Ltd
001C6F
(base 16) Emfit Ltd
Konttisentie 8 B
Vaajakoski 40800
FI

00-1C-89 (hex) Force Communications, Inc.
001C89 (base 16) Force Communications, Inc.
3810 Arbordale Lane
Sachse TX 75048
US

00-1C-87 (hex) Uriver Inc.
001C87 (base 16) Uriver Inc.
3rd., Fl., Bogwang Bldg., Poi-dong, 238-7 Gangnam-gu,
Seoul 135-964
KR

00-1C-8D (hex) Mesa Imaging
001C8D (base 16) Mesa Imaging
Badenerstrasse 569
Zürich ZH 8048
CH

00-1C-49 (hex) Zoltan Technology Inc.
001C49 (base 16) Zoltan Technology Inc.
4F, No.30, Wunsi St.
Jhubei Hsinchu 302

TW

00-1C-3F (hex) International Police Technologies, Inc.
001C3F (base 16) International Police Technologies, Inc.
4150 S. 87th E. Avenue
Tulsa OK 74145
US

00-1C-3B (hex) AmRoad Technology Inc.
001C3B (base 16) AmRoad Technology Inc.
18F-3 No. 150 , Chien I Rd
Chung Ho Taipei Hsien 23511
TW

00-1C-32 (hex) Telian
Corporation
001C32 (base 16) Telian Corporation
4FL. Namjeon Bldg. 53-3 Haandong
Kwangmyungsi Kyoungkido 423060
KR

00-1C-2B (hex) Alertme.com Limited
001C2B (base 16) Alertme.com Limited
30 Station Road
Cambridge Cambridgeshire CB1 2RE
GB

00-1B-93 (hex) JC Decaux SA DNT
001B93 (base 16) JC Decaux SA DNT
21 rue claude Bernard
MAUREPAS 78310
FR

00-1B-9B (hex) Hose-McCann Communications
001B9B (base 16) Hose-McCann Communications
1241 West Newport Center Drive
Deerfield Beach FL 33442
US

00-1B-9C (hex) SATEL sp. z o.o.
001B9C (base 16) SATEL sp. z o.o.
Schuberta 79
Gdansk pomorskie 80-172
PL

00-1C-16 (hex) ThyssenKrupp Elevator
001C16 (base 16) ThyssenKrupp Elevator
9280 Crestwyn Hills Drive

Memphis TN 38125
US

00-1C-19 (hex) secunet Security Networks AG
001C19 (base 16) secunet Security Networks AG
Kronprinzenstraße 30
Essen NRW 45128
DE

00-1C-09
(hex) SAE Electronic Co.,Ltd.
001C09 (base 16) SAE Electronic Co.,Ltd.
23/F,Ying Long Zhan Ye Building,
Shenzhen Guang Dong 518040
CN

00-1C-0C (hex) TANITA Corporation
001C0C (base 16) TANITA Corporation
1-14-2,Maeno-cho
Tokyo 174-8630
JP

00-1B-E1 (hex) ViaLogy
001BE1 (base 16) ViaLogy
2400 Lincoln Ave
Altadena CA 91001
US

00-1B-DF (hex) Iskra Sistemi d.d.
001BDF (base 16) Iskra Sistemi d.d.
Stegne 21
Ljubljana Slovenia 1000
SI

00-1B-D9 (hex) Edgewater Wireless Systems Inc
001BD9 (base 16) Edgewater Wireless Systems Inc
50 HInes Road Suite 200
Ottawa Ontario K2K-2M5
CA

00-1B-B4 (hex) Airvod Limited
001BB4 (base 16) Airvod Limited
Heather House
Sandyford Ind Est Dublin 18 D18
IE

00-1B-B6 (hex) Bird Electronic Corp.
001BB6 (base 16) Bird Electronic Corp.

30303 Aurora Road
Solon Ohio 44139
US

00-1B-A6 (hex) intotech
inc.
001BA6 (base 16) intotech inc.
13F DMC R&D Center E3-2 Building Land Development District Sangam-Dong
Mapogu Seoul 121-270
KR

00-1B-A4 (hex) S.A.E Afikim
001BA4 (base 16) S.A.E Afikim
Kibutz Afikim
Kibutz Afikim 15148
IL

00-1B-EC (hex) Netio Technologies Co., Ltd
001BEC (base 16) Netio Technologies Co., Ltd
4F-1, No. 582, Rueiguang Rd., Neihu District
Taipei 11492
TW

00-1B-E8 (hex) Ultratronik GmbH
001BE8 (base 16) Ultratronik GmbH
Dornierstr. 9
Gilching 822205
DE

00-1C-28 (hex) Sphairon Technologies GmbH
001C28 (base 16) Sphairon Technologies GmbH
Philipp-Reis-Strasse 1
Bautzen Saxony 02625
DE

00-1C-1F (hex) Quest Retail Technology Pty Ltd
001C1F (base 16) Quest Retail Technology Pty Ltd
37-39 Walsh Street
Thebarton SA 5031
AU

00-1B-C7 (hex) StarVedia Technology Inc.
001BC7 (base 16) StarVedia Technology Inc.
3F, No.
247, Done Sec. 1, Guangming 6th Rd.
Jhubei Hsin-Chu County 302
TW

00-1B-92 (hex) l-acoustics
001B92 (base 16) l-acoustics
parc de la fontaine de jouvence
marcoussis essonne 91462
FR

00-1B-8E (hex) Hulu Sweden AB
001B8E (base 16) Hulu Sweden AB
Box 12328, 10228
Kista Stockholm 164 40
SE

00-1B-8A (hex) 2M Electronic A/S
001B8A (base 16) 2M Electronic A/S
Malervej 10
Taastrup 2630
DK

00-1B-6B (hex) Swyx Solutions AG
001B6B (base 16) Swyx Solutions AG
Joseph-von-Fraunhofer-straße 13a
Dortmund 44227
DE

00-1B-69 (hex) Equaline Corporation
001B69 (base 16) Equaline Corporation
9F, No. 234, Section 4, Cheng-De Road,
Taipei Hsien 25162
TW

00-1B-68 (hex) Modnnet Co., Ltd
001B68 (base 16) Modnnet Co., Ltd
2139 Daemyung-Dong DIP main B/D Room#505, Namgu
Daegu Kyungsang Bookdo 705-701
KR

00-1B-62 (hex) JHT Optoelectronics Co.,Ltd.
001B62 (base
16) JHT Optoelectronics Co.,Ltd.
Hetian Industrial Park 2rd,Houjie Town, Donguan,
Dongguan Guangdong 523945
CN

00-1B-45 (hex) ABB AS, Division Automation Products
001B45 (base 16) ABB AS, Division Automation Products
Bergerveien 12
Billingstad NO-1375
NO

00-1B-3F (hex) ProCurve Networking by HP
001B3F (base 16) ProCurve Networking by HP
60 Alexandra Terrace
118502
SG

00-1B-41 (hex) General Infinity Co.,Ltd.
001B41 (base 16) General Infinity Co.,Ltd.
3F,No.169, Xing-ai Rd,
Taipei 114
TW

00-1B-76 (hex) Ripcode, Inc.
001B76 (base 16) Ripcode, Inc.
1130 E. Arapaho Road
Richardson TX 75081
US

00-1B-70 (hex) IRI Ubiteq, INC.
001B70 (base 16) IRI Ubiteq, INC.
Shinjuku-Nomura Bldg. 47F,
Shinjuku-ku Tokyo 163-0547
JP

00-1B-6C (hex) LookX Digital Media BV
001B6C (base 16) LookX Digital Media BV
Roekenveldweg 1
Brunssum Limburg 6446DK
NL

00-1B-50
(hex) Nizhny Novgorod Factory named after M.Frunze, FSUE (NZiF)
001B50 (base 16) Nizhny Novgorod Factory named after M.Frunze, FSUE (NZiF)
174, Gagarina Avenue
Nizhny Novgorod Russia 603950
RU

00-1B-47 (hex) Futarque A/S
001B47 (base 16) Futarque A/S
Aagade 15B
Aalborg 9000
DK

00-1B-23 (hex) SimpleComTools
001B23 (base 16) SimpleComTools
598 Indian Trail Rd S.
Indian Trail NC 28079

US

00-1B-3E (hex) Curtis, Inc.
001B3E (base 16) Curtis, Inc.
2405 Annapolis Lane
Minneapolis MN 55441
US

00-1B-37 (hex) Computec Oy
001B37 (base 16) Computec Oy
Juholankatu 8
Kouvola Kymi 45200
FI

00-1B-30 (hex) Solitech Inc.
001B30 (base 16) Solitech Inc.
1838 Main Street
Stevensville MD 21666
US

00-1B-80 (hex) LORD Corporation
001B80 (base 16) LORD Corporation
2000 West Grandview Blvd
Erie Pa 16509
US

00-1B-18 (hex) Tsuken Electric Ind.
Co.,Ltd
001B18 (base 16) Tsuken Electric Ind. Co.,Ltd
3-9 Akedouri Izumi-ku
Sendai City Miyagi 981-3206
JP

00-1A-8B (hex) CHUNIL ELECTRIC IND., CO.
001A8B (base 16) CHUNIL ELECTRIC IND., CO.
308,ByuckSan Digital Valley,132-7,Gamjeon-Dong,Sasang-Gu
Busan GyeongSangNamDo 617-800
KR

00-1A-8D (hex) AVECS Bergen GmbH
001A8D (base 16) AVECS Bergen GmbH
Billrothstraße 11 a
Bergen auf Rügen M/V 18528
DE

00-1A-95 (hex) Hisense Mobile Communications Technoligy Co.,Ltd.
001A95 (base 16) Hisense Mobile Communications Technoligy Co.,Ltd.
11,JiangXi Road,

QingDao ShanDong 266071
CN

00-1A-81 (hex) Zelax
001A81 (base 16) Zelax
2nd buid., 1B, Zavodskaya st.,
Moscow 124681
RU

00-1A-87 (hex) Canhold International Limited
001A87 (base 16) Canhold International Limited
Flat 4, 13/F., Block 4, Tai Ping Industrial Centre
00852
HK

00-1B-07 (hex) Mendocino Software
001B07
(base 16) Mendocino Software
47001 Benecia St.
Fremont CA 94538
US

00-1B-08 (hex) Danfoss Drives A/S
001B08 (base 16) Danfoss Drives A/S
Ulsnaes 1
Graasten 6300
DK

00-1B-01 (hex) Applied Radio Technologies
001B01 (base 16) Applied Radio Technologies
1124 South Service Road West
Oakville Ontario L6L 5T7
CA

00-1B-02 (hex) ED Co.Ltd
001B02 (base 16) ED Co.Ltd
517-15 SangDaeWon-Dong
SeongNam-City GyeongGi-Do 462-806
KR

00-1A-FC (hex) ModusLink Corporation
001AFC (base 16) ModusLink Corporation
2905 Prestonwood Drive
Plano Texas 75093
US

00-1A-BE (hex) COMPUTER HI-TECH INC.
001ABE (base 16) COMPUTER HI-TECH INC.

HigashiUeno3-18-7
Taitoku Tokyo 110-0015
JP

00-1A-C1 (hex) 3Com Ltd
001AC1 (base 16) 3Com Ltd
Peoplebuilding 2
Hemel Hempstead Herts HP2 4NW
GB

00-1A-BB (hex) Fontal Technology Incorporation
001ABB (base 16) Fontal Technology
Incorporation
Rm.522, Bldg. 52, 195, Sec. 4, ChungHsing Rd., Chutung
Hsinchu 310
TW

00-1A-BD (hex) Impatica Inc.
001ABD (base 16) Impatica Inc.
205-1725 St. Laurent Blvd.
Ottawa ON K1G 3V4
CA

00-1A-AE (hex) Savant Systems LLC
001AAE (base 16) Savant Systems LLC
45 Perseverance Way
Hyannis Massachusetts 02601
US

00-1A-D7 (hex) Christie Digital Systems, Inc.
001AD7 (base 16) Christie Digital Systems, Inc.
809 Wellington Street North
Kitchener Ontario N2G 4Y7
CA

00-1A-CD (hex) Tidel Engineering LP
001ACD (base 16) Tidel Engineering LP
2025 W Belt Line Road Suite 114
Carrollton TX 75019
US

00-1A-C9 (hex) SUZUKEN CO.,LTD
001AC9 (base 16) SUZUKEN CO.,LTD
SUZUKEN TOMEI BLDG.
NAGOYA-SI AICHI-KEN 465-0045
JP

00-1A-B4 (hex) FFEI Ltd.

001AB4 (base 16) FFEI Ltd.
Graphics House
Hemel Hempstead Hertfordshire HP2 7SU
GB

00-1A-B5 (hex) Home
Network System
001AB5 (base 16) Home Network System
107, Hyundai I-Vally
Seongnam-si Gyeonggi-do 462-714
KR

00-1A-79 (hex) TELECOMUNICATION TECHNOLOGIES LTD.
001A79 (base 16) TELECOMUNICATION TECHNOLOGIES LTD.
4D ZHUKOVA BLV.
ODESSA 65121
UA

00-1A-AA (hex) Analogic Corp.
001AAA (base 16) Analogic Corp.
8 Centennial Drive
Peabody MA 01960
US

00-1A-F6 (hex) Woven Systems, Inc.
001AF6 (base 16) Woven Systems, Inc.
2455 Augustine Drive
Santa Clara CA 95054
US

00-1A-F9 (hex) AeroVIronment (AV Inc)
001AF9 (base 16) AeroVIronment (AV Inc)
4685 Industrial St
Simi Valley CA 93063
US

00-1A-E0 (hex) Mythology Tech Express Inc.
001AE0 (base 16) Mythology Tech Express Inc.
2F, No.10, Lane 235, Bao Chiao road,
Taipei 231
TW

00-1A-E2 (hex) Cisco Systems, Inc
001AE2 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1B-10
(hex) ShenZhen Kang Hui Technology Co.,ltd
001B10 (base 16) ShenZhen Kang Hui Technology Co.,ltd
China GuangDong
ShenZhen GuangDong 518109
CN

00-1B-0B (hex) Phidgets Inc.
001B0B (base 16) Phidgets Inc.
2715A 16A Street N.W.
Calgary Alberta T2M 3R7
CA

00-1B-0C (hex) Cisco Systems, Inc
001B0C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1A-A4 (hex) Future University-Hakodate
001AA4 (base 16) Future University-Hakodate
116-2 Kamedanakano-cho
Hakodate Hokkaido 041-8655
JP

00-1A-9F (hex) A-Link Ltd
001A9F (base 16) A-Link Ltd
Kylavainiontie 20
Espoo FI-02760
FI

00-1A-E7 (hex) Aztek Networks, Inc.
001AE7 (base 16) Aztek Networks, Inc.
2477 55th St. #202
Boulder CO 80301
US

00-1A-20 (hex) CMOTECH Co. Ltd.
001A20 (base 16) CMOTECH Co. Ltd.
5F Etronix Bldg. 17-10
Youngdungpo-Gu Seoul 150-874
KR

00-1A-19
(hex) Computer Engineering Limited
001A19 (base 16) Computer Engineering Limited
PO Box 493
Auckland AK 2340

NZ

00-1A-18 (hex) Advanced Simulation Technology inc.
001A18 (base 16) Advanced Simulation Technology inc.
500A Huntmar Park Drive
Herndon VA 20170
US

00-1A-13 (hex) Wanlida Group Co., LTD
001A13 (base 16) Wanlida Group Co., LTD
Jiahe Road No.618
Xiamen Fujian 361006
CN

00-1A-5C (hex) Euchner GmbH+Co. KG
001A5C (base 16) Euchner GmbH+Co. KG
Kohlhammerstraße 16
Leinfelden-Echterdingen BW 70771
DE

00-1A-5B (hex) NetCare Service Co., Ltd.
001A5B (base 16) NetCare Service Co., Ltd.
5-13-16 Shimizu, Asahi-ku
Osaka 535-0021
JP

00-1A-4E (hex) NTI AG / LinMot
001A4E (base 16) NTI AG / LinMot
Haerdlistrasse 15
Spreitenbach AG 8957
CH

00-1A-52 (hex) Meshlinx Wireless Inc.
001A52 (base 16) Meshlinx Wireless Inc.
1410 G Avenue, Suite T
Plano
Texas 75074
US

00-1A-58 (hex) CCV Deutschland GmbH - Celectronic eHealth Div.
001A58 (base 16) CCV Deutschland GmbH - Celectronic eHealth Div.
Gertraudenstrasse 18
Berlin D-10178
DE

00-1A-5E (hex) Thincom Technology Co.,Ltd
001A5E (base 16) Thincom Technology Co.,Ltd
17F-3, No.398, Huanbei Rd.,

Zhongli City Taoyuan Contry 320
TW

00-1A-88 (hex) Venergy,Co,Ltd
001A88 (base 16) Venergy,Co,Ltd
West 6th Floor,M-8 Building Maqueling Zone,
shenzhen guangdong 518000
CN

00-1A-74 (hex) Procare International Co
001A74 (base 16) Procare International Co
5F, No.88, Jhouzih Street, Neihu District
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TW

00-1A-24 (hex) Galaxy Telecom Technologies Ltd
001A24 (base 16) Galaxy Telecom Technologies Ltd
No.25, The 1st Gaoxin Road
Xi'an City Shannxi 710075
CN

00-1A-43 (hex) Logical Link Communications
001A43 (base 16) Logical Link Communications
1909 Central
Drive Suite 205
Bedford TX 76021
US

00-1A-47 (hex) Agami Systems, Inc.
001A47 (base 16) Agami Systems, Inc.
1269 Innsbruck Drive
Sunnyvale California 94089
US

00-1A-2D (hex) The Navvo Group
001A2D (base 16) The Navvo Group
4400 Baker Road
Minnetonka MN 55343
US

00-1A-2F (hex) Cisco Systems, Inc
001A2F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-19-9E (hex) Nifty
00199E (base 16) Nifty

miwa4-2-22-105
Nagano 3800803
JP

00-19-8D (hex) Ocean Optics, Inc.
00198D (base 16) Ocean Optics, Inc.
830 Douglas Ave
Dunedin FL 34698
US

00-19-85 (hex) IT Watchdogs, Inc
001985 (base 16) IT Watchdogs, Inc
12885 Research, Suite 210B
Austin TX 78750
US

00-19-86 (hex) Cheng Hongjian
001986 (base 16) Cheng Hongjian
Rm.2305B.Sege Plaza,Huaqiang North Rd.,
Shenzhen Guangdong 518057
US

00-19-E5 (hex) Lynx Studio
Technology, Inc.
0019E5 (base 16) Lynx Studio Technology, Inc.
1540 Barton Rd # 268
Redlands CA 92373
US

00-19-DB (hex) MICRO-STAR INTERNATIONAL CO., LTD.
0019DB (base 16) MICRO-STAR INTERNATIONAL CO., LTD.
NO. 69, LI-DE ST.
JUNG-HE CITY TAIPEI HSIEN 235
TW

00-19-CE (hex) Progressive Gaming International
0019CE (base 16) Progressive Gaming International
920 Pilot Road
Las Vegas NV 89119
US

00-19-BD (hex) New Media Life
0019BD (base 16) New Media Life
Hea Ju Bild, 5F, 837-7, Yeoksam-dong
Kangnam-gu Seoul 135-080
KR

00-19-A9 (hex) Cisco Systems, Inc

0019A9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-19-AE (hex) Hopling Technologies b.v.
0019AE (base 16) Hopling Technologies b.v.
Camerastraat 10
Almere Flevoland 1322 BC
NL

00-19-F2 (hex) Teradyne K.K.
0019F2 (base 16) Teradyne K.K.
272-13, Heisei, Takaono
Kikuchi-gun
Kumamoto 869-1232
JP

00-19-DE (hex) MOBITEK
0019DE (base 16) MOBITEK
5F,No.60,Lane 321,Yang-Kwang Street
Taipei 114
US

00-19-AF (hex) Rigol Technologies, Inc.
0019AF (base 16) Rigol Technologies, Inc.
No. 156 Cai He Village, Sha He Town
Beijing 102206
CN

00-19-A7 (hex) ITU-T
0019A7 (base 16) ITU-T
Place des Nations
Geneva 20 CH-1211
CH

00-1A-03 (hex) Angel Electronics Co., Ltd.
001A03 (base 16) Angel Electronics Co., Ltd.
17, Lane 134, Shou Shan Road, Tai Shan,
Taipei 243
TW

00-19-F9 (hex) TDK-Lambda
0019F9 (base 16) TDK-Lambda
405 Essex Road
Neptune NJ 07753
US

00-1A-0F (hex) ARTECHE GROUP
001A0F (base 16) ARTECHE GROUP
Derio Bidea 28, Zabalondo Industrialdea
Mungia Bizkaia 48100
ES

00-19-9F (hex) DKT A/S
00199F (base 16) DKT A/S
Fanoevej 6
Kr. Saaby DK-4060
DK

00-18-FF (hex) PowerQuattro Co.
0018FF
(base 16) PowerQuattro Co.
János u. 175.
Budapest H-1161
HU

00-18-F4 (hex) EO TECHNICS Co., Ltd.
0018F4 (base 16) EO TECHNICS Co., Ltd.
91, Dongpyeon-ro
Anyang Kyeonggi-Do 431-803
KR

00-18-F6 (hex) Thomson Telecom Belgium
0018F6 (base 16) Thomson Telecom Belgium
Prins Boudewijnlaan 47
Edegem Antwerp B-2650
BE

00-18-FC (hex) Altec Electronic AG
0018FC (base 16) Altec Electronic AG
Lenggenbachstrasse 3
Fahrweid Zürich CH-8951
CH

00-18-F5 (hex) Shenzhen Streaming Video Technology Company Limited
0018F5 (base 16) Shenzhen Streaming Video Technology Company Limited
5/F, Block 3, Software Part No.1, Keji Middle 2 Road,
Shenzhen GaungDong 518057
CN

00-18-F9 (hex) VVOND, Inc.
0018F9 (base 16) VVOND, Inc.
3000 Bridge Parkway
Redwood City CA 94065
US

00-18-FA (hex) Yushin Precision Equipment Co.,Ltd.
0018FA (base 16) Yushin Precision Equipment Co.,Ltd.
11-260
KOGAHONMACHI
KYOTO 612-8492 JAP
JP

00-19-35 (hex) DUERR DENTAL AG
001935 (base 16) DUERR DENTAL AG
Hoepfigheimer Strasse 17
Bietigheim-Bissingen Baden-Wuerttemberg 74321
DE

00-19-32 (hex) Gude Systems GmbH
001932 (base 16) Gude Systems GmbH
Von-der-Wettern-Str. 23
Cologne NRW 51149
DE

00-19-31 (hex) Balluff GmbH
001931 (base 16) Balluff GmbH
Schurwaldstraße 9
Neuhausen BW 73765
DE

00-19-3D (hex) GMC Guardian Mobility Corp.
00193D (base 16) GMC Guardian Mobility Corp.
Suite 200
Ottawa ON K2E 7Y8
CA

00-19-3B (hex) LigoWave
00193B (base 16) LigoWave
138 Mountain Brook Drive
Canton GA 30115
US

00-19-14 (hex) Winix Co., Ltd
001914 (base 16) Winix Co., Ltd
363 Angade Bldg., Yangjae-dong
Seoul 137-898
KR

00-19-01 (hex) F1MEDIA
001901 (base 16) F1MEDIA
610, Keumkang Hightech ¥±, 138-1 Sangdaewon-Dong, Jungwon-Gu
Seongnam-Si

Gyeonggi-Do 462-707
KR

00-19-06 (hex) Cisco Systems, Inc
001906 (base 16) Cisco Systems, Inc
80 West Tasman Drive
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US

00-19-10 (hex) Knick Elektronische Messgeraete GmbH & Co. KG
001910 (base 16) Knick Elektronische Messgeraete GmbH & Co. KG
Beuckestraße 22
Berlin 14163
DE

00-19-13 (hex) Chuang-Yi Network Equipment Co.Ltd.
001913 (base 16) Chuang-Yi Network Equipment Co.Ltd.
238 TianMuShan Rd., West Lake district
HangZhou ZheJiang 310000
CN

00-19-51 (hex) NETCONS, s.r.o.
001951 (base 16) NETCONS, s.r.o.
Stara Vajnorska 37
Bratislava Slovakia 831 04
SK

00-19-57 (hex) Saafnet Canada Inc.
001957 (base 16) Saafnet Canada Inc.
107-1089 East Kent Ave (N)
Vancouver BC V5X 4V9
CA

00-19-6B (hex) Danpex Corporation
00196B (base 16) Danpex Corporation
2114 Ringwood Avenue
San Jose California 95131
US

00-19-6A (hex) MikroM GmbH
00196A
(base 16) MikroM GmbH
Dovestraße 1
Berlin 10587
DE

00-19-56 (hex) Cisco Systems, Inc
001956 (base 16) Cisco Systems, Inc

80 West Tasman Drive
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US

00-19-58 (hex) Bluetooth SIG, Inc.
001958 (base 16) Bluetooth SIG, Inc.
5209 Lake Washington Blvd NE
Kirkland WA 98033
US

00-18-99 (hex) ShenZhen jieshun Science&Technology Industry CO,LTD.
001899 (base 16) ShenZhen jieshun Science&Technology Industry CO,LTD.
China GuangDong state Shenzhen City Futian section NO17. Meilin Road
Shenzhen GuangDong 518049
CN

00-18-9F (hex) Lenntek Corporation
00189F (base 16) Lenntek Corporation
4F, 125 GuangMing 3rd. Road
Jhu Bei Hsin Chu 302
TW

00-18-95 (hex) Hansun Technologies Inc.
001895 (base 16) Hansun Technologies Inc.
Room 301, Building 103, Wangjingkejiyuan, Chaoyang District
Beijing 100102
CN

00-18-B7 (hex) D3 LED, LLC
0018B7 (base 16) D3
LED, LLC
380 Mountain Rd
Union City NJ 07087
US

00-18-C1 (hex) Almitec Informática e Comércio
0018C1 (base 16) Almitec Informática e Comércio
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São Paulo 04714-010
BR

00-18-C4 (hex) Raba Technologies LLC
0018C4 (base 16) Raba Technologies LLC
8830 Stanford Blvd Suite 205
Columbia Maryland 21045
US

00-18-C9 (hex) EOps Technology Limited

0018C9 (base 16) EOps Technology Limited
Room 2001, Fairmont House,
Hong Kong
HK

00-18-BC (hex) ZAO NVP Bolid
0018BC (base 16) ZAO NVP Bolid
Pionerskaya str., 4
Korolyov Moscow region 141070
RU

00-18-6D (hex) Zhenjiang Sapphire Electronic Industry CO.
00186D (base 16) Zhenjiang Sapphire Electronic Industry CO.
Wei San Road,Dingmao Develop Area
zhenjiang jiangsu 212009
CN

00-18-6F (hex) Setha Industria Eletronica LTDA
00186F (base 16) Setha Industria Eletronica LTDA
Rua Alvaro de Macedo
134
Rio de Janeiro RJ 21.250-620
BR

00-18-75 (hex) AnaCise Testnology Pte Ltd
001875 (base 16) AnaCise Testnology Pte Ltd
3 Bishan Place #02-06
579838
SG

00-18-D8 (hex) ARCH METER Corporation
0018D8 (base 16) ARCH METER Corporation
4F, No.3-2, Industry E. Rd.
Hsinchu
TW

00-18-D9 (hex) Santosha Internatonal, Inc
0018D9 (base 16) Santosha Internatonal, Inc
3843 S. Bristol St. #242
Santa Ana CA 92704
US

00-18-CF (hex) Baldor Electric Company
0018CF (base 16) Baldor Electric Company
600 S. Zero St.
Fort Smith AR 72901
US

00-18-8E (hex) Ekahau, Inc.
00188E (base 16) Ekahau, Inc.
Hiilikatu 3
HELSINKI UUSIMAA 00180
FI

00-18-83 (hex) FORMOSA21 INC.
001883 (base 16) FORMOSA21 INC.
8F-6, NO.351, CHUNG SHAN RD., SEC.2
TAIPEI 235
TW

00-18-E3 (hex) Visualgate Systems, Inc.
0018E3 (base 16) Visualgate Systems, Inc.
64 Bakersfield Street
Toronto
Ontario M3J 2W7
CA

00-18-EA (hex) Alltec GmbH
0018EA (base 16) Alltec GmbH
An der Trave 27-31
Selmsdorf Mecklenburg-Vorpommern 23923
DE

00-18-E8 (hex) Hacetron Corporation
0018E8 (base 16) Hacetron Corporation
No. 542,
Yang-Mei, Tao-Yuan, 326
TW

00-17-DE (hex) Advantage Six Ltd
0017DE (base 16) Advantage Six Ltd
208 George St
OLDHAM Lancs OL2 8DR
GB

00-17-D7 (hex) ION Geophysical Corporation Inc.
0017D7 (base 16) ION Geophysical Corporation Inc.
850 Dorothy
Richardson Texas 75081
US

00-17-E1 (hex) DACOS Technologies Co., Ltd.
0017E1 (base 16) DACOS Technologies Co., Ltd.
104 Daeryung-Technotown III 448
SEOUL Keumcheon-Gu 153-772
KR

00-18-14 (hex) Mitutoyo Corporation
001814 (base 16) Mitutoyo Corporation
20-1, Sakado 1-chome, Takatsu-ku,
Kawasaki-shi 213-8533
JP

00-18-17 (hex) D. E. Shaw Research, LLC
001817 (base 16) D.
E. Shaw Research, LLC
120 W. 45th St., 33rd Floor
New York NY 10036
US

00-18-11 (hex) Neuros Technology International, LLC.
001811 (base 16) Neuros Technology International, LLC.
650 W Lake St
Chicago IL 60661
US

00-18-0E (hex) Avega Systems
00180E (base 16) Avega Systems
59 Victoria Street
McMahons Point NSW 2060
AU

00-17-E0 (hex) Cisco Systems, Inc
0017E0 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-17-D2 (hex) THINLINX PTY LTD
0017D2 (base 16) THINLINX PTY LTD
31 Carwoola Crescent
Mooloolaba Queensland 4557
AU

00-17-C7 (hex) MARA Systems Consulting AB
0017C7 (base 16) MARA Systems Consulting AB
Instrumentvägen 45
Stockholm 126 53
SE

00-18-5D (hex) TAIGUEN TECHNOLOGY (SHEN-ZHEN) CO., LTD.
00185D (base 16) TAIGUEN TECHNOLOGY (SHEN-ZHEN) CO., LTD.
No. 23, The Third Industrial Park of Xia Village,
Shenzhen City,

Guangdong, 815106
CN

00-18-5E (hex) Nexterm Inc.
00185E (base 16) Nexterm Inc.
1-12-3, Shibaura, Minato-ku,
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JP

00-18-28 (hex) e2v technologies (UK) ltd.
001828 (base 16) e2v technologies (UK) ltd.
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GB

00-18-35 (hex) Thoratec / ITC
001835 (base 16) Thoratec / ITC
2656 Patton Road
Roseville MN 55113
US

00-18-37 (hex) Universal ABIT Co., Ltd.
001837 (base 16) Universal ABIT Co., Ltd.
7F, No. 323 Yangguang St.,
Neihu Taipei 114
TW

00-18-01 (hex) Actiontec Electronics, Inc
001801 (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

00-17-F3 (hex) Harris Corporation
0017F3 (base 16) Harris Corporation
1025 West NASA Blvd
Melbourne FL 32919
US

00-18-22 (hex) CEC TELECOM CO.,LTD.
001822 (base 16) CEC TELECOM CO.,LTD.
10thFL.CEC Building,6 Zhongguancun South
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Beijing 100086
CN

00-18-20 (hex) w5networks
001820 (base 16) w5networks

48389 Fremont Blvd
Fremont CA 94538
US

00-18-4B (hex) Las Vegas Gaming, Inc.
00184B (base 16) Las Vegas Gaming, Inc.
4000 West Ali Baba Lane, Suite D
Las Vegas Nevada 89118
US

00-18-4A (hex) Catcher, Inc.
00184A (base 16) Catcher, Inc.
5864 Owens Ave.
Carlsbad CA 92008
US

00-17-50 (hex) GSI Group, MicroE Systems
001750 (base 16) GSI Group, MicroE Systems
8 Erie Drive
Natick MA 01760
US

00-17-55 (hex) GE Security
001755 (base 16) GE Security
12345 SW Leveton Drive
Tualatin OR 97062
US

00-17-51 (hex) Online Corporation
001751 (base 16) Online Corporation
22F-3, No. 398, Huan Pei Road,
Chung Li Taoyuan 320
TW

00-17-B8 (hex) NOVATRON CO., LTD.
0017B8 (base 16) NOVATRON CO., LTD.
#601 polaris bldg., 15-3 jeongja-dong, bundang-gu
Seong Nam Gyeonggi
Do 463-811
KR

00-17-BB (hex) Syrinx Industrial Electronics
0017BB (base 16) Syrinx Industrial Electronics
De Factorij 13
Zwaag Noord Holland 1689 AK
NL

00-17-BC (hex) Touchtunes Music Corporation

0017BC (base 16) Touchtunes Music Corporation
3 Place du Commerce
Montréal Québec H3E 1H7
CA

00-17-C1 (hex) CM Precision Technology LTD.
0017C1 (base 16) CM Precision Technology LTD.
2 Fl, No. 177, Chien-E Road, Chung-Ho City
Taipei Hsien 235
TW

00-17-A3 (hex) MIX s.r.l.
0017A3 (base 16) MIX s.r.l.
Via Caldera, 21
Milan I-20153
IT

00-17-A6 (hex) YOSIN ELECTRONICS CO., LTD.
0017A6 (base 16) YOSIN ELECTRONICS CO., LTD.
6F-2, No.17, Lan 174,Shin-Ming Road
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TW

00-17-9C (hex) DEPRAG SCHULZ GMBH u. CO.
00179C (base 16) DEPRAG SCHULZ GMBH u. CO.
Kurfürstenringg 12.18
Amberg Bayern 92224
DE

00-17-96 (hex) Rittmeyer AG
001796 (base 16) Rittmeyer
AG
Inwilerriedstrasse 57
Baar ZG CH-6341
CH

00-17-76 (hex) Meso Scale Diagnostics, LLC
001776 (base 16) Meso Scale Diagnostics, LLC
9238 Gaither Rd.
Gaithersburg MD 20877
US

00-17-79 (hex) QuickTel
001779 (base 16) QuickTel
Cornishe El-Nile, Maasara
Cairo 11743
EG

00-17-67 (hex) Earforce AS
001767 (base 16) Earforce AS
P.O.Box 4
Bryne 4349
NO

00-17-63 (hex) Essentia S.p.A.
001763 (base 16) Essentia S.p.A.
Via G.B. Vico, 29
Cella (RE) Reggio Emilia 42040
IT

00-17-81 (hex) Greystone Data System, Inc.
001781 (base 16) Greystone Data System, Inc.
40800 Encycopedia Circle
Fremont CA 94538
US

00-17-85 (hex) Sparr Electronics Ltd
001785 (base 16) Sparr Electronics Ltd
Sparr Electronics Ltd
Bangalore Karnataka 560054
IN

00-17-75 (hex) TTE Germany GmbH
001775 (base 16) TTE Germany GmbH
Hermann-Schwer-Straße 3
Villingen-Schwenningen
Baden-Württemberg 78048
DE

00-17-B2 (hex) SK Telesys
0017B2 (base 16) SK Telesys
4F, Kyungdong bldg, 4-4, Sunae-Dong, Pundang-Gu
Sungnam-City Kunggi-Do 463-825
KR

00-17-B1 (hex) ACIST Medical Systems, Inc.
0017B1 (base 16) ACIST Medical Systems, Inc.
7450 Flying Cloud Drive
Eden Prairie MN 55344
US

00-17-8D (hex) Checkpoint Systems, Inc.
00178D (base 16) Checkpoint Systems, Inc.
101 Wolf Drive
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00-17-8E (hex) Gunnebo Cash Automation AB
00178E (base 16) Gunnebo Cash Automation AB
Fabriksgatan 10
Göteborg 402 27
SE

00-17-7C (hex) Smartlink Network Systems Limited
00177C (base 16) Smartlink Network Systems Limited
L-7, Verna Electronic city
Nagoa Goa 403 722
IN

00-17-4C (hex) Millipore
00174C (base 16) Millipore
1, rue Jacques Monod
Guyancourt 78280
FR

00-17-45 (hex) INNOTZ CO., Ltd
001745 (base 16) INNOTZ
CO., Ltd
14F, Prime Center 546-4 Guui-Dong Kwanggin-Gu
Seoul Seoul
KR

00-17-48 (hex) Neokoros Brasil Ltda
001748 (base 16) Neokoros Brasil Ltda
Rua 86, numero 501, Setor Sul
Goiania Goias 74083-330
BR

00-17-5D (hex) Dongseo system.
00175D (base 16) Dongseo system.
974-21 Mansu-dong Namdong-gu
Incheon In-Cheon 405-865
KR

00-17-1D (hex) DIGIT
00171D (base 16) DIGIT
Via Pasteur , 1/3
S.Pietro Mosezzo NOVARA 28060
IT

00-17-18 (hex) Vansco Electronics Oy
001718 (base 16) Vansco Electronics Oy
Tiilenlyojankatu 5
FORSSA 30101

FI

00-17-19 (hex) Audiocodes USA, Inc
001719 (base 16) Audiocodes USA, Inc
27 World's Fair Drive
Somerset NJ 08873
US

00-16-FF (hex) Wamin Optocomm Mfg Corp
0016FF (base 16) Wamin Optocomm Mfg Corp
No. 239 Qiaohe Road
Zhonghe City Taipei County 235
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00-17-01 (hex) KDE, Inc.
001701 (base 16) KDE, Inc.
KDE
TOWN, 42-7, Mangwol-dong
Hanam Gyeonggi-do 465-150
KR

00-17-0E (hex) Cisco Systems, Inc
00170E (base 16) Cisco Systems, Inc
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US

00-17-05 (hex) Methode Electronics
001705 (base 16) Methode Electronics
7401 W. Wilson
Chicago IL 60706
US

00-16-DE (hex) FAST Inc
0016DE (base 16) FAST Inc
905 Honeyspot Rd
Stratford CT 06615
US

00-16-DA (hex) Futronic Technology Co. Ltd.
0016DA (base 16) Futronic Technology Co. Ltd.
Room 1016A, 10/F., Profit Ind. Bldg.,
Kwai Chung 00000
HK

00-17-2C (hex) TAEJIN INFOTECH
00172C (base 16) TAEJIN INFOTECH
6F Woolim e-Biz Center, 170-5

Seoul 152-769
KR

00-16-EE (hex) Royaldigital Inc.
0016EE (base 16) Royaldigital Inc.
8F., No.308, Sec.1, Neihu Rd.
Taipei City 114
TW

00-17-11 (hex) Cytiva Sweden AB
001711 (base 16) Cytiva Sweden AB
Björkgatan 30
Uppsala
SE 75184
SE

00-17-17 (hex) Leica Geosystems AG
001717 (base 16) Leica Geosystems AG
Heinrich Wild Strasse
Heerbrugg St. Gallen CH-9435
CH

00-17-15 (hex) Qstik
001715 (base 16) Qstik
Cartel Business Estate
Harlow Essex CM20 2TT
GB

00-17-39 (hex) Bright Headphone Electronics Company
001739 (base 16) Bright Headphone Electronics Company
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Chung Ho City Taipei County 235
TW

00-16-ED (hex) Utility, Inc
0016ED (base 16) Utility, Inc
250 E Ponce de Leon Ave Suite 700
Decatur GA 30030
US

00-16-71 (hex) Symphox Information Co.
001671 (base 16) Symphox Information Co.
15F, No. 51, Sec. 3, Minsheng E. Road
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TW

00-16-69 (hex) MRV Communication (Networks) LTD
001669 (base 16) MRV Communication (Networks) LTD

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00-16-68 (hex) Eishin Electronics
001668 (base 16) Eishin Electronics
Nishiku
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Kobe City Hyogo Prefecture 651-2146
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00-16-7D (hex) Sky-Line Information Co., Ltd.
00167D (base 16) Sky-Line Information Co., Ltd.
8F.,No.38,Sihyuan Rd.,
Sinihuang Taipei 242
TW

00-16-77 (hex) Bihl + Wiedemann GmbH
001677 (base 16) Bihl + Wiedemann GmbH
Flosswoerthstr 41
Mannheim 68199
DE

00-16-72 (hex) Zenway enterprise ltd
001672 (base 16) Zenway enterprise ltd
6F., No.20, Lane 150, Jhongsing Rd., Sijhih City
Taipei 886
TW

00-16-D4 (hex) Compal Communications, Inc.
0016D4 (base 16) Compal Communications, Inc.
7th, FL, No. 319, Sec. 4, Pa-Teh rd.
Taipei 886
TW

00-16-D7 (hex) Sunways AG
0016D7 (base 16) Sunways AG
Macairestraße 3-5
Konstanz Baden-Württemberg 78467
DE

00-16-D1 (hex) ZAT a.s.
0016D1 (base 16) ZAT a.s.
K Podlesi 541
Pribram VI 26180
CZ

00-16-C5 (hex) Shenzhen Xing Feng Industry Co.,Ltd

0016C5
(base 16) Shenzhen Xing Feng Industry Co.,Ltd
Floor 1 - 4, Block 25, Hongtian Jinyuan Industrial,
Shenzhen GuangDong 86
CN

00-16-AA (hex) Kei Communication Technology Inc.
0016AA (base 16) Kei Communication Technology Inc.
8-BAN CHUOU
KOBE HYOGO 650-0024
JP

00-16-A8 (hex) CWT CO., LTD.
0016A8 (base 16) CWT CO., LTD.
10F No. 74 Sec. 1 Chung-Hua Rd.
Taipei 108
TW

00-16-A6 (hex) Dovado FZ-LLC
0016A6 (base 16) Dovado FZ-LLC
Al-Thuraya Tower 1, office 504
Dubai
AE

00-16-A2 (hex) CentraLite Systems, Inc.
0016A2 (base 16) CentraLite Systems, Inc.
6420 Wall Street
Mobile AL 36695
US

00-16-CC (hex) Xcute Mobile Corp.
0016CC (base 16) Xcute Mobile Corp.
3F. No.25, Ally15, Lane 120, Sec.1, Neihu Rd.
Taipei 114
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00-16-C7 (hex) Cisco Systems, Inc
0016C7 (base 16) Cisco Systems, Inc
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00-16-5A (hex) Harman
Specialty Group
00165A (base 16) Harman Specialty Group
3 Oak Park Drive
Bedford MA 01730
US

00-16-59 (hex) Z.M.P. RADWAG
001659 (base 16) Z.M.P. RADWAG
Bracka 28 street
RADOM Mazowieckie 26-600
PL

00-16-55 (hex) FUHO TECHNOLOGY Co., LTD
001655 (base 16) FUHO TECHNOLOGY Co., LTD
No. 30, Lane 726, Jinma Rd, Sec. 3
Chang Hua 500
TW

00-16-95 (hex) AVC Technology (International) Limited
001695 (base 16) AVC Technology (International) Limited
6/F Enterprise Square III
Kowloon Bay
HK

00-15-D8 (hex) Interlink Electronics
0015D8 (base 16) Interlink Electronics
546 Flynn Road
Camarillo CA 93012
US

00-15-D2 (hex) Xantech Corporation
0015D2 (base 16) Xantech Corporation
5919 Sea Otter Place
Carlsbad CA 92010
US

00-15-D4 (hex) Emitor AB
0015D4 (base 16) Emitor AB
Sjöviksbacken 14
Stockholm 117 43
SE

00-15-D6 (hex) OSLiNK Sp. z
o.o.
0015D6 (base 16) OSLiNK Sp. z o.o.
ul. Marsa 27
Gdansk 80299
PL

00-15-D5 (hex) NICEVT
0015D5 (base 16) NICEVT
Warshawskoe shosse 125
Moscow 117405

RU

00-16-1D (hex) Innovative Wireless Technologies, Inc.
00161D (base 16) Innovative Wireless Technologies, Inc.
1047 Vista Park Dr.
Forest VA 24551
US

00-16-11 (hex) Altecon Srl
001611 (base 16) Altecon Srl
Via F.lli Cairoli, 17
Lissone Milano 20035
IT

00-16-0C (hex) LPL DEVELOPMENT S.A. DE C.V
00160C (base 16) LPL DEVELOPMENT S.A. DE C.V
LAGO GINEBRA 380 P3
D.F. 11480
MX

00-16-12 (hex) Otsuka Electronics Co., Ltd.
001612 (base 16) Otsuka Electronics Co., Ltd.
1-10 Sasagaoka, Minakuchi
kouka shiga 528-0061
JP

00-16-0B (hex) TVWorks LLC
00160B (base 16) TVWorks LLC
Two Belvedere Place, #200
Mill Valley CA 94941
US

00-16-40 (hex) Asmobile Communication Inc.
001640 (base
16) Asmobile Communication Inc.
No.11 Lane 120, Li-Te Rd., Peitou 112, Taipei, Taiwan, R.O.C
Taipei 112
TW

00-16-3C (hex) Rebox B.V.
00163C (base 16) Rebox B.V.
Hendrik Figeeweg 1X
Haarlem Noord-Holland 2031 BJ
NL

00-15-EA (hex) Tellumat (Pty) Ltd
0015EA (base 16) Tellumat (Pty) Ltd
64/74 White Road

Cape Town Western Province 7945
ZA

00-15-E2 (hex) Dr.Ing. Herbert Knauer GmbH
0015E2 (base 16) Dr.Ing. Herbert Knauer GmbH
Hegauer Weg 38
Berlin 14163
DE

00-15-E1 (hex) Picochip Ltd
0015E1 (base 16) Picochip Ltd
Upper Borough Court
Bath BA1 1RG
GB

00-15-DF (hex) Clivet S.p.A.
0015DF (base 16) Clivet S.p.A.
via Camp Lonc 25
Feltre Belluno 32030
IT

00-15-F5 (hex) Sustainable Energy Systems
0015F5 (base 16) Sustainable Energy Systems
#500, 609 14th Street NW
Calgary Ab T2T 1P3
CA

00-15-F1 (hex) KYLINK Communications Corp.
0015F1 (base
16) KYLINK Communications Corp.
8F-8, No. 351, Sec. 2, Zhongshan Rd., Zhonghe City
23504
TW

00-16-46 (hex) Cisco Systems, Inc
001646 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-16-48 (hex) SSD Company Limited
001648 (base 16) SSD Company Limited
3-3-4 Higashiyagura
Kusatsu-city Shiga 525-0054
JP

00-16-25 (hex) Impinj, Inc.
001625 (base 16) Impinj, Inc.

400 Fairview Ave N, Suite 1200
Seattle WA 98109
US

00-16-23 (hex) Interval Media
001623 (base 16) Interval Media
3200 Ash Street
Palo Alto CA 94306
US

00-16-19 (hex) Lancelan Technologies S.L.
001619 (base 16) Lancelan Technologies S.L.
C/Angel Guimera 208 bis
Terrassa Barcelona 08223
ES

00-16-03 (hex) COOLKSKY Co., LTD
001603 (base 16) COOLKSKY Co., LTD
Shingsung offcetel A511, 1588-1 Secho
Seoul 137-070
KR

00-16-09 (hex) Unitech electronics co.,
ltd.
001609 (base 16) Unitech electronics co., ltd.
5F,No.136,Lane 235 ,Pao-chiao Rd.,
Hsin-Tien city Taipei Hsien 231
TW

00-15-C7 (hex) Cisco Systems, Inc
0015C7 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-15-86 (hex) Xiamen Overseas Chinese Electronic Co., Ltd.
001586 (base 16) Xiamen Overseas Chinese Electronic Co., Ltd.
No. 22, Huli Street,
Xiamen Fujian 361006
CN

00-15-7E (hex) Weidmüller Interface GmbH & Co. KG
00157E (base 16) Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
Detmold 32758
DE

00-15-80 (hex) U-WAY CORPORATION

001580 (base 16) U-WAY CORPORATION
3F-2, NO. 125, LANE 235, PAO-CHIAO
HSINTIEN CITY TAIPEI HSIEN 231
TW

00-15-7C (hex) Dave Networks, Inc.
00157C (base 16) Dave Networks, Inc.
2151 O'tool Avenue
San Jose CA 95131
US

00-15-7F (hex) ChuanG International Holding CO.,LTD.
00157F (base 16) ChuanG
International Holding CO.,LTD.
1F, NO.12, Alley 1, Lane 125, Guolian Street 4Lirn, Wuhan Village
Taoyuan Longtan 325
US

00-15-9D (hex) Tripp Lite
00159D (base 16) Tripp Lite
1111 W 35th Street
Chicago IL 60609
US

00-15-92 (hex) Facom UK Ltd (Melksham)
001592 (base 16) Facom UK Ltd (Melksham)
Lancaster House
Melksham Wiltshire SN104FB
US

00-15-8B (hex) Park Air Systems Ltd
00158B (base 16) Park Air Systems Ltd
Northfields
Peterborough PE6 8UE
GB

00-15-5C (hex) Dresser Wayne
00155C (base 16) Dresser Wayne
3814 Jarrett Way
Austin Texas 78728
US

00-15-59 (hex) Securaplane Technologies, Inc.
001559 (base 16) Securaplane Technologies, Inc.
10800 N. Mavinee Dr.
Tucson AZ 85737
US

00-15-57 (hex) Olivetti
001557 (base 16) Olivetti
Via Jervis 77
Ivrea Torino 10015
IT

00-15-54 (hex) Atalum Wireless S.A.
001554 (base 16) Atalum
Wireless S.A.
C/ Orellana 5, 1º I
Madrid 28004
ES

00-15-3F (hex) Alcatel Alenia Space Italia
00153F (base 16) Alcatel Alenia Space Italia
Strada Padana Superiore 290
Vimodrone MI 20090
IT

00-15-3B (hex) EMH metering GmbH & Co. KG
00153B (base 16) EMH metering GmbH & Co. KG
Neu- Galliner Weg 1
Mecklenburg-Vorpommern
DE

00-15-33 (hex) NADAM.CO.,LTD
001533 (base 16) NADAM.CO.,LTD
#91-3 Wangrim-Li
Hwaseong Gyeonggi 445-895
KR

00-15-37 (hex) Ventus Networks
001537 (base 16) Ventus Networks
800 Connecticut Ave
Norwalk CT 06854
US

00-15-BE (hex) Iqua Ltd.
0015BE (base 16) Iqua Ltd.
Hyvoninkatu 1
Salo Varsinais-Suomi 24240
US

00-15-B3 (hex) Caretech AB
0015B3 (base 16) Caretech AB
Nyborgsvägen 197
Kalix 95291
SE

00-15-AA (hex) Rextechnik International Co.,
0015AA (base 16) Rextechnik International Co.,
Room 5-3, No.51, Section
2, Keelung Road
Taipei 110
TW

00-15-76 (hex) LABiTec - Labor Biomedical Technologies GmbH
001576 (base 16) LABiTec - Labor Biomedical Technologies GmbH
An der Strusbek 6

DE

00-15-5E (hex) Morgan Stanley
00155E (base 16) Morgan Stanley
750 7th Avenue
New York NY 10019
US

00-15-0F (hex) mingjong
00150F (base 16) mingjong
8F,NO.1,LANE 16,SZE CHUAN ROAD,SEC.2,PANCHIAO CITY.
TAIPEI 220
TW

00-15-0B (hex) SAGE INFOTECH LTD.
00150B (base 16) SAGE INFOTECH LTD.
3F, No30, INDUSTRY E. 9TH RD.,SCIENCE-BASED
HSIN-CHU TAIWAN 300
TW

00-15-07 (hex) Renaissance Learning Inc
001507 (base 16) Renaissance Learning Inc
2911 Peach Street
Wisconsin Rapids Wisconsin 54494
US

00-15-08 (hex) Global Target Enterprise Inc
001508 (base 16) Global Target Enterprise Inc
5F, No. 186, Sec. 2, Chung-Hsing Rd.,
Hsin Tien, Taipei county 231
TW

00-15-02 (hex) BETA
tech
001502 (base 16) BETA tech
15 rue d'apollo

L'UNION 31240
FR

00-14-FD (hex) Thecus Technology Corp.
0014FD (base 16) Thecus Technology Corp.
15F.,No. 79,Sec. 1,Sintai 5th RD.,
Sijhih City Taipei County 221
TW

00-14-F1 (hex) Cisco Systems, Inc
0014F1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-14-EA (hex) S Digm Inc. (Safe Paradigm Inc.)
0014EA (base 16) S Digm Inc. (Safe Paradigm Inc.)
5F, Shin-an Bldg. 89-8,
Songpa-Gu Seoul 138-201
KR

00-14-E5 (hex) Alticast
0014E5 (base 16) Alticast
16th floor, Nara Bldg, 1328-3
Seoul 137-070
KR

00-14-FC (hex) Extandon, Inc.
0014FC (base 16) Extandon, Inc.
39350 Civic Center Drive Ste. 160
Fremont CA 94538
US

00-14-F8 (hex) Scientific Atlanta
0014F8 (base 16) Scientific Atlanta
5030 Sugarloaf Parkway
Lawrenceville Ga 30042
US

00-14-F7 (hex) CREVIS Co., LTD
0014F7
(base 16) CREVIS Co., LTD
157-1, Hagal-Dong
Youngin Kyungki 446930
KR

00-15-15 (hex) Leipold+Co.GmbH
001515 (base 16) Leipold+Co.GmbH

Kreuzwiese 12
Rockenhausen RLP D-67806
DE

00-14-E0 (hex) LET'S Corporation
0014E0 (base 16) LET'S Corporation
Bancho Bldg. 4F, 2-18-20 Marunouchi, Naka
Nagoya Aichi 460-0002
JP

00-14-E2 (hex) datacom systems inc.
0014E2 (base 16) datacom systems inc.
9 adler drive
east syracuse n.y. 13057
US

00-14-E4 (hex) infinias, LLC
0014E4 (base 16) infinias, LLC
857 West Carmel Drive
Carmel IN 46032
US

00-14-DB (hex) Elma Trenew Electronic GmbH
0014DB (base 16) Elma Trenew Electronic GmbH
Stuttgarter Straße 11
Pforzheim 75179
DE

00-15-26 (hex) Remote Technologies Inc
001526 (base 16) Remote Technologies Inc
5775 12th Ave E, Suite 180
Shakopee MN 55379
US

00-15-18 (hex) Shenzhen 10MOONS Technology Development
CO.,Ltd
001518 (base 16) Shenzhen 10MOONS Technology Development CO.,Ltd
Add:3F,Huaxing building, QiaoXiang road,
shenzhen guangdong 518053
CN

00-15-34 (hex) A Beltrónica-Companhia de Comunicações, Lda
001534 (base 16) A Beltrónica-Companhia de Comunicações, Lda
Rua Dr. José Baptista de Sousa, 27
Lisbon 1549-002 Lis
PT

00-14-CC (hex) Zetec, Inc.

0014CC (base 16) Zetec, Inc.
8226 Bracken Place SE
Snoqualmie WA 98065
US

00-14-CB (hex) LifeSync Corporation
0014CB (base 16) LifeSync Corporation
1 E Broward Boulevard, Suite 1701
Fort Lauderdale Florida 33301
US

00-14-C6 (hex) Quixant Ltd
0014C6 (base 16) Quixant Ltd
61A Mount Pleasant
England Kent TN16 3TP
GB

00-14-6F (hex) Kohler Co
00146F (base 16) Kohler Co
444 Highland Drive
Kohler WI 53044
US

00-14-66 (hex) Kleinhenz Elektronik GmbH
001466 (base 16) Kleinhenz Elektronik GmbH
Greinerberg
14
Munich 81371
DE

00-14-6B (hex) Anagran, Inc.
00146B (base 16) Anagran, Inc.
580 North Pastoria Av
Sunnyvale CA 94085
US

00-14-61 (hex) CORONA CORPORATION
001461 (base 16) CORONA CORPORATION
7-7, HIGASHI-SHINBO
SANJO-SHI NIIGATA 955-8510
JP

00-14-62 (hex) Digiwell Technology, inc
001462 (base 16) Digiwell Technology, inc
4F, No.1, Prosperity 1st Road
Hsinchu Science Park 300
TW

00-14-63 (hex) IDCS N.V.
001463 (base 16) IDCS N.V.
Hellebeemden 9
Hasselt Limburg 3500
BE

00-14-3D (hex) Aevoe Inc.
00143D (base 16) Aevoe Inc.
11F, No 23, Keelung Road
Taipei HsinYi District 110
TW

00-14-3A (hex) RAYTALK INTERNATIONAL SRL
00143A (base 16) RAYTALK INTERNATIONAL SRL
St. Marecchia 79
Verucchio (RN) 47826
IT

00-14-98 (hex) Viking Design Technology
001498 (base 16) Viking Design Technology
2F, No.2, Lane 42,
Taipei 111
TW

00-14-96
(hex) Phonic Corp.
001496 (base 16) Phonic Corp.
12thFl, 59 Tung Hsing Rd
Taipei 110
TW

00-14-93 (hex) Systimax Solutions
001493 (base 16) Systimax Solutions
1300 E Lookout Drive
Richardson Texas 75082
US

00-14-8D (hex) Cubic Defense Simulation Systems
00148D (base 16) Cubic Defense Simulation Systems
2001 W. Oakridge Road
Orlando FL 32809
US

00-14-7F (hex) Thomson Telecom Belgium
00147F (base 16) Thomson Telecom Belgium
Prins Boudewijnlaan 47
Edegem Antwerp B-2650
BE

00-14-75 (hex) Wiline Networks, Inc.
001475 (base 16) Wiline Networks, Inc.
741 Alexander Rd
Princeton NJ 08540
US

00-14-74 (hex) K40 Electronics
001474 (base 16) K40 Electronics
600 Tollgate Rd. Unit A
Elgin IL 60123
US

00-14-9F (hex) System and Chips, Inc.
00149F (base 16) System and Chips, Inc.
4F,No. 1, Lane 50, NanKang Road, Section 3,
Taipei 115
TW

00-14-B3
(hex) CoreStar International Corp
0014B3 (base 16) CoreStar International Corp
1044 Sandy Hill Rd
Irwin PA 15642
US

00-14-B1 (hex) Axell Wireless Limited
0014B1 (base 16) Axell Wireless Limited
Aerial HOuse
Chesham Buckinghamshire HP5 2QD
GB

00-14-86 (hex) Echo Digital Audio Corporation
001486 (base 16) Echo Digital Audio Corporation
402 E Carrillo St
Santa Barbara CA 93101
US

00-14-82 (hex) Aurora Networks
001482 (base 16) Aurora Networks
5400 Betsy Ross Drive
Santa Clara CA 95054
US

00-14-55 (hex) Coder Electronics Corporation
001455 (base 16) Coder Electronics Corporation
Takeda Bldg, 1-30-6 Shirasagi,
Nakano-ku Tokyo 165-0035

JP

00-14-4E (hex) SRISA
00144E (base 16) SRISA
36/1, Nakhimovskiy pr-t
Moscow 117218
RU

00-14-65 (hex) Novo Nordisk A/S
001465 (base 16) Novo Nordisk A/S
Novo Alle
Bagsvaerd 2880
DK

00-14-36
(hex) Qwerty Elektronik AB
001436 (base 16) Qwerty Elektronik AB
Gryt 44
Ösmo 610 60
SE

00-14-33 (hex) Empower Technologies(Canada) Inc.
001433 (base 16) Empower Technologies(Canada) Inc.
Unit 405 - 5600 Parkwood Way,
Richmond British Columbia V6V 2M2
CA

00-14-34 (hex) Keri Systems, Inc
001434 (base 16) Keri Systems, Inc
2305 Bering Dr
San Jose CA 95131
US

00-14-23 (hex) J-S Co. NEUROCOM
001423 (base 16) J-S Co. NEUROCOM
Energeticheskii proezd, 6
Moscow 111250
RU

00-14-25 (hex) Galactic Computing Corp.
001425 (base 16) Galactic Computing Corp.
1/F
Chai Wan District
HK

00-14-19 (hex) SIDSA
001419 (base 16) SIDSA
PTM - TORRES QUEVEDO 1

TRES CANTOS MADRID 28760
ES

00-14-15 (hex) Intec Automation inc.
001415 (base 16) Intec Automation inc.
2751 Arbutus Rd.
Victoria British Columbia V8N 5X7
CA

00-14-10 (hex) Suzhou Keda
Technology CO.,Ltd
001410 (base 16) Suzhou Keda Technology CO.,Ltd
131,Jinshan Road
Suzhou JiangSu 215011
CN

00-14-17 (hex) RSE Informations Technologie GmbH
001417 (base 16) RSE Informations Technologie GmbH
Silberbergstrasse 9
Wolfsberg Kärnten 9400
AT

00-14-08 (hex) Eka Systems Inc.
001408 (base 16) Eka Systems Inc.
20251 Century Blvd
Germantown MD 20874
US

00-13-DE (hex) Adapt4, LLC
0013DE (base 16) Adapt4, LLC
1050 W Nasa Blvd,
Melbourne FL 32901
US

00-13-DD (hex) Abbott Diagnostics
0013DD (base 16) Abbott Diagnostics
5440 Patrick Henry Drive
Santa Clara CA 95054
US

00-13-D7 (hex) SPIDCOM Technologies SA
0013D7 (base 16) SPIDCOM Technologies SA
137 avenue du General LECLERC
BOURG LA REINE 92340
FR

00-13-EE (hex) JBX Designs Inc.
0013EE (base 16) JBX Designs Inc.

PO Box 970158
Boca Raton FL 33497
US

00-13-E5 (hex) TENOSYS,
INC.
0013E5 (base 16) TENOSYS, INC.
Seojin B/D, 1564-1, Seocho-dong,
Seoul 137-070
KR

00-13-E2 (hex) GeoVision Inc.
0013E2 (base 16) GeoVision Inc.
9F.,No.246,Sec.1,
Taipei 114
TW

00-13-C7 (hex) IONOS Co.,Ltd.
0013C7 (base 16) IONOS Co.,Ltd.
1-36-18 Miyasaka
Setagaya-ku Tokyo 156-0051
JP

00-13-BC (hex) Artimi Ltd
0013BC (base 16) Artimi Ltd
Betjeman House
Cambridge Cambridgeshire CB2 1LQ
GB

00-13-B2 (hex) Carallon Limited
0013B2 (base 16) Carallon Limited
Studio G20 Shepherds Building
London W14 0DA
GB

00-14-02 (hex) kk-electronic a/s
001402 (base 16) kk-electronic a/s
Cypresvej 6
Herning 7400
DK

00-13-FF (hex) Dage-MTI of MC, Inc.
0013FF (base 16) Dage-MTI of MC, Inc.
701 N. Roeske Ave.
Michigan City IN 46360
US

00-13-96 (hex) Acbel Polytech Inc.

001396 (base 16) Acbel Polytech Inc.
No.159,Sec.3, Tam-King Rd.,
Tamsui
Taipei 251
TW

00-13-93 (hex) Panta Systems, Inc.
001393 (base 16) Panta Systems, Inc.
20450 Stevens Creek Blvd.
Cupertino California 95014
US

00-13-8B (hex) Phantom Technologies LLC
00138B (base 16) Phantom Technologies LLC
7825 Fay Avenue, Suite 200
La Jolla CA 92037
US

00-13-88 (hex) WiMedia Alliance
001388 (base 16) WiMedia Alliance
2400 Camino Ramon
San Ramon CA 94583
US

00-13-A6 (hex) Extricom Ltd
0013A6 (base 16) Extricom Ltd
Glil Yam
Herzlia 46905
IL

00-13-9F (hex) Electronics Design Services, Co., Ltd.
00139F (base 16) Electronics Design Services, Co., Ltd.
5-10-20 Tokumaru
Itabashi-ku Tokyo 175-0083
JP

00-13-A2 (hex) MaxStream, Inc
0013A2 (base 16) MaxStream, Inc
355 South 520 West Suite 180
Lindon Ut 84042
US

00-13-A0 (hex) ALGOSYSTEM Co., Ltd.
0013A0 (base 16) ALGOSYSTEM Co., Ltd.
656 kobirao mihara-cho
sakai
osaka 587-0021
JP

00-13-98 (hex) TrafficSim Co.,Ltd
001398 (base 16) TrafficSim Co.,Ltd
1-19-56 Taiko, Nakamura-ku
Nagoya Aichi prefecture 453-0801
JP

00-13-9B (hex) ioIMAGE Ltd.
00139B (base 16) ioIMAGE Ltd.
3 Maskit Street
Herzliya Pituach IL 46733
IL

00-13-6E (hex) Techmetro Corp.
00136E (base 16) Techmetro Corp.
4F. Dongam B/D., 264-5, YangJae-Dong
Seoul 137-130
KR

00-13-6D (hex) Tentaculus AB
00136D (base 16) Tentaculus AB
Studiegangen 3
Ostersund Jamtland SE - 831 40
SE

00-13-6A (hex) Hach Lange Sarl
00136A (base 16) Hach Lange Sarl
6, route de Compois
VESENAZ GENEVA 1222
CH

00-13-63 (hex) Verascape, Inc.
001363 (base 16) Verascape, Inc.
1101 31st St., Suite #190
Downers Grove IL 60515
US

00-13-4D (hex) Inepro BV
00134D (base 16) Inepro BV
Pondweg 7
Nieuw- Vennep
NL

00-13-4B (hex) ToGoldenNet Technology
Inc.
00134B (base 16) ToGoldenNet Technology Inc.
5F-1 No.25,Pu-ding.,
Hsin-Chu 300

TW

00-13-4A (hex) Engim, Inc.
00134A (base 16) Engim, Inc.
40 Nagog Park
Acton MA 01720
US

00-13-34 (hex) Arkados, Inc.
001334 (base 16) Arkados, Inc.
948 US HWY 22
North Plainfield NJ 07060
US

00-13-37 (hex) Orient Power Home Network Ltd.
001337 (base 16) Orient Power Home Network Ltd.
307 Harbour Centre, Tower 1,

HK

00-13-32 (hex) Beijing Topsec Network Security Technology Co., Ltd.
001332 (base 16) Beijing Topsec Network Security Technology Co., Ltd.
Huakong Tower
Haidian District Beijing 100085
CN

00-13-1F (hex) NxtPhase T&D, Corp.
00131F (base 16) NxtPhase T&D, Corp.
3040 E. Broadway
Vancouver BC V5M 1Z4
CA

00-13-AD (hex) Sendo Ltd
0013AD (base 16) Sendo Ltd
Hatchford Brook
Birmingham West Midlands B26 3RZ
GB

00-13-AA (hex) ALS & TEC
Ltd.
0013AA (base 16) ALS & TEC Ltd.
6 B. Kazachya str.
Saratov Saratov region 410600
RU

00-13-A4 (hex) KeyEye Communications
0013A4 (base 16) KeyEye Communications
9785 Goethe

Sacramento CA 95827
US

00-13-A7 (hex) BATTELLE MEMORIAL INSTITUTE
0013A7 (base 16) BATTELLE MEMORIAL INSTITUTE
505 KING AVE
COLUMBUS OHIO 43201
US

00-13-3A (hex) VadaTech Inc.
00133A (base 16) VadaTech Inc.
11540 S. Eastern Avenue
Henderson Nevada 89052
US

00-13-2A (hex) Sitronics Telecom Solutions
00132A (base 16) Sitronics Telecom Solutions
Michelska 60
Prague Prague 4 - Michle 140 00
CZ

00-13-84 (hex) Advanced Motion Controls
001384 (base 16) Advanced Motion Controls
3805 Calle Tecate
Camarillo California 93012
US

00-13-7B (hex) Movon Corporation
00137B (base 16) Movon Corporation
5th, Hyunjuk B/D
Seoul 135-092
KR

00-13-53 (hex) HYDAC Filtertechnik
GMBH
001353 (base 16) HYDAC Filtertechnik GMBH
Industriegebiet
Sulzbach/Saar Saarland 66280
DE

00-12-D7 (hex) Invento Networks, Inc.
0012D7 (base 16) Invento Networks, Inc.
377 Simarano Drive
Marlborough MA 01752
US

00-12-FF (hex) Lely Industries N.V.
0012FF (base 16) Lely Industries N.V.

Weverskade 110
Maassluis Zuid-Holland 3147PA
NL

00-13-03 (hex) GateConnect
001303 (base 16) GateConnect
Eisenhutweg 69
12487 Berlin 12487
DE

00-12-F9 (hex) URYU SEISAKU, LTD.
0012F9 (base 16) URYU SEISAKU, LTD.
1-2-11
HIGASHINARI-KU OSAKA 537-0002
JP

00-13-04 (hex) Flaircomm Technologies Co. LTD
001304 (base 16) Flaircomm Technologies Co. LTD
2088 Huashan Road
Shanghai 200030
CN

00-12-B8 (hex) G2 Microsystems
0012B8 (base 16) G2 Microsystems
408 Euclid Ave
Oakland CA 94610
US

00-12-B3 (hex) Advance Wireless Technology Corp.
0012B3 (base
16) Advance Wireless Technology Corp.
12F No. 27-6, Sec. 2, Chung Cheng East Road
Tamshui 251
TW

00-12-B0 (hex) Efore Oyj (Plc)
0012B0 (base 16) Efore Oyj (Plc)
Quartetto Business Park
Espoo FI - 02600
FI

00-13-09 (hex) Ocean Broadband Networks
001309 (base 16) Ocean Broadband Networks
2078 Walsh Ave, Suite B
Santa Clara California 95050
US

00-13-19 (hex) Cisco Systems, Inc

001319 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-13-1C (hex) LiteTouch, Inc.
00131C (base 16) LiteTouch, Inc.
3400 South West Temple
Salt Lake City UT 84115
US

00-13-0E (hex) Focusrite Audio Engineering Limited
00130E (base 16) Focusrite Audio Engineering Limited
19 Lincoln Road
High Wycombe Bucks HP12 3FX
GB

00-12-C4 (hex) Viseon, Inc.
0012C4 (base 16) Viseon, Inc.
8445 Freeport Parkway
Irving Texas 75063
US

00-12-D0 (hex) Gossen-Metrawatt-GmbH
0012D0
(base 16) Gossen-Metrawatt-GmbH
Thomas-Mann-Straße 16-20
Nürnberg Bavaria 90471
DE

00-12-E5 (hex) Time America, Inc.
0012E5 (base 16) Time America, Inc.
51 W. 3rd Street #310
Tempe AZ 85281
US

00-12-DC (hex) SunCorp Industrial Limited
0012DC (base 16) SunCorp Industrial Limited
No.68 Guowei Road,
Liantang Industrial District, Shenzhen,
CN

00-12-69 (hex) Value Electronics
001269 (base 16) Value Electronics
Dong-kwan B/D, 5F, 1566-2
seoul 137-874
KR

00-12-64 (hex) daum electronic gmbh
001264 (base 16) daum electronic gmbh
flugplatzstraße 100
FÃƒÂ¼rth Bavaria 90768
DE

00-12-75 (hex) Sentilla Corporation
001275 (base 16) Sentilla Corporation
201 Marshall Street
Redwood City CA 94063
US

00-12-76 (hex) CG Power Systems Ireland Limited
001276 (base 16) CG Power Systems Ireland Limited
Herbert House., Harmony Row,
Dublin
D2
IE

00-12-71 (hex) Measurement Computing Corp
001271 (base 16) Measurement Computing Corp
10 Commerce Way
Norton MA 02766
US

00-12-73 (hex) Stoke Inc
001273 (base 16) Stoke Inc
2189 Leghorn Street
Mountain View CA 94043
US

00-12-7F (hex) Cisco Systems, Inc
00127F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-12-7B (hex) VIA Networking Technologies, Inc.
00127B (base 16) VIA Networking Technologies, Inc.
8F,533, Chung-Cheng Road, Hsin-Tien
Taipei 231
TW

00-12-80 (hex) Cisco Systems, Inc
001280 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-12-93 (hex) ABB Switzerland Ltd.
001293 (base 16) ABB Switzerland Ltd.
Via Luserte Sud 9 Quartino
Quartino 6572
CH

00-12-94 (hex) SUMITOMO ELECTRIC DEVICE INNOVATIONS, INC
001294 (base 16) SUMITOMO ELECTRIC DEVICE INNOVATIONS, INC
1000
Kamisukiawara,Showa-cho
Nakakoma-gun Yamanashi 409-3883
JP

00-12-96 (hex) Addlogix
001296 (base 16) Addlogix
459 Wald
Irvine CA 92618
US

00-12-61 (hex) Adaptix, Inc
001261 (base 16) Adaptix, Inc
1407 116th Ave. NE
Bellevue WA 98004
US

00-12-60 (hex) Stanton Magnetics,inc.
001260 (base 16) Stanton Magnetics,inc.
3000 SW 42nd Street
Hollywood FL 33312
US

00-12-58 (hex) TechVoIP Sp z o.o.
001258 (base 16) TechVoIP Sp z o.o.
Os. Boleslawa Chrobrego 117
Poznan Wielkopolska 60-681
PL

00-12-50 (hex) Tokyo Aircaft Instrument Co., Ltd.
001250 (base 16) Tokyo Aircaft Instrument Co., Ltd.
1-35-1, Izumi-Honcho
Komae-Shi Tokyo 201-8555
JP

00-12-52 (hex) Citronix, LLC
001252 (base 16) Citronix, LLC
2214 South Watson Road
Arlington Texas 76010

US

00-12-4B (hex) Texas Instruments
00124B (base 16) Texas Instruments
Gaustadalleen 21
Oslo
N-0349
NO

00-12-4A (hex) Dedicated Devices, Inc.
00124A (base 16) Dedicated Devices, Inc.
5680 E. Franklin Road
Nampa Idaho 83687
US

00-12-A6 (hex) Dolby Australia
0012A6 (base 16) Dolby Australia
Level 6
Surry Hills NSW 2010
AU

00-12-A4 (hex) ThingMagic, LLC
0012A4 (base 16) ThingMagic, LLC
One Broadway
Cambridge MA 02142
US

00-12-A9 (hex) 3Com Ltd
0012A9 (base 16) 3Com Ltd
Peoplebuilding 2
Hemel Hempstead Herts HP2 4NW
GB

00-12-43 (hex) Cisco Systems, Inc
001243 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-12-99 (hex) Ktech Telecommunications Inc
001299 (base 16) Ktech Telecommunications Inc
21540 Prairie Street Unit B
Chatsworth CA 91311
US

00-12-8C (hex) Woodward Governor
00128C (base 16) Woodward Governor
1000 E. Drake Road

Ft. Collins CO 80525
US

00-11-D2 (hex) Perception Digital
Ltd
0011D2 (base 16) Perception Digital Ltd
Flat A, 8/F, Shaw House
Clear Water Bay NT
HK

00-11-D9 (hex) TiVo
0011D9 (base 16) TiVo
2160 Gold Ave
Alviso CA 95002-2160
US

00-11-CF (hex) Thrane & Thrane A/S
0011CF (base 16) Thrane & Thrane A/S
Lundtoftegårdsvej 93D
Lyngby København 2800
DK

00-11-D4 (hex) NetEnrich, Inc
0011D4 (base 16) NetEnrich, Inc
890 Hillview Ct.
Milpitas CA 95035
US

00-11-D5 (hex) Hangzhou Sunyard System Engineering Co.,Ltd.
0011D5 (base 16) Hangzhou Sunyard System Engineering Co.,Ltd.
Sunyard Science & Technology Building Hi-Tech Software Park(Second Land Consolidation)
Hangzhou Zhejiang 310053
CN

00-11-F8 (hex) AIRAYA Corp
0011F8 (base 16) AIRAYA Corp
637 Adair Court
Morgan Hill CA 95037
US

00-11-F4 (hex) woori-net
0011F4 (base 16) woori-net
#508, Hankook Moolyu, 853-1 Dongchun-Dong
Yongin-Si Kyungki-Do 449-843
KR

00-11-F6

(hex) Asia Pacific Microsystems , Inc.
0011F6 (base 16) Asia Pacific Microsystems , Inc.
No.2,R&D Road 6 ,Science-Based Industrial Park,
Hsinchu 300
TW

00-11-F0 (hex) Wideful Limited
0011F0 (base 16) Wideful Limited
F5, 3/F., Phase II, Superluck Industrial Centre,

HK

00-11-F1 (hex) QinetiQ Ltd
0011F1 (base 16) QinetiQ Ltd
Room E601
Malvern Worcestershire WR14 3PS
GB

00-11-ED (hex) 802 Global
0011ED (base 16) 802 Global
Studio 11,Intec 2,Wade Road
Hampshire RG24 BNE
GB

00-11-CC (hex) Guangzhou Jinpeng Group Co.,Ltd.
0011CC (base 16) Guangzhou Jinpeng Group Co.,Ltd.
No.9 Shenzhou Road,Guangzhou Science City
Guangzhou Guangdong 510663
CN

00-11-C7 (hex) Raymarine UK Ltd
0011C7 (base 16) Raymarine UK Ltd
Marine House
Fareham Hampshire PO15 5RJ
GB

00-11-C9 (hex) MTT Corporation
0011C9 (base 16) MTT Corporation
2-7-12
Nishi-ku
Kobe 651-2241
JP

00-11-B5 (hex) Shenzhen Powercom Co.,Ltd
0011B5 (base 16) Shenzhen Powercom Co.,Ltd
Floor 16,Tower B,Zhongyin Building,North Caitian Road,Futian District,Shenzhen,P.R.China
Shenzhen Guangdong province 518028
CN

00-11-BB (hex) Cisco Systems, Inc
0011BB (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-11-BD (hex) Bombardier Transportation
0011BD (base 16) Bombardier Transportation
1501 Lebanon Church Road
Pittsburgh PA 15236
US

00-12-03 (hex) ActivNetworks
001203 (base 16) ActivNetworks
BAT L - 1 rue de Terre Neuve
COURTABOEUF 91944
FR

00-12-11 (hex) Protechna Herbst GmbH & Co. KG
001211 (base 16) Protechna Herbst GmbH & Co. KG
Otto Hahn Str. 26
Ottobrunn Germany/Bavaria 85521
DE

00-12-19 (hex) General Datacomm LLC
001219 (base 16) General Datacomm LLC
353 Christian Street, Suite 4
Oxford CT 06478
US

00-12-16
(hex) ICP Internet Communication Payment AG
001216 (base 16) ICP Internet Communication Payment AG
Wilhelm-Stein-Weg 24
Hamburg D-22339
DE

00-12-15 (hex) iStor Networks, Inc.
001215 (base 16) iStor Networks, Inc.
7585 Irvine Center Drive
Irvine CA 92618
US

00-11-DB (hex) Land-Cellular Corporation
0011DB (base 16) Land-Cellular Corporation
12054 Miramar Parkway
Miramar FL 33025

US

00-12-40 (hex) AMOI ELECTRONICS CO.,LTD
001240 (base 16) AMOI ELECTRONICS CO.,LTD
295 Lane,Zuchongzhi Road,Zhang jiang,
Shanghai 201203
CN

00-12-2E (hex) Signal Technology - AISD
00122E (base 16) Signal Technology - AISD
1820 Preston Park Blvd.
Plano TX 75093
US

00-12-31 (hex) Motion Control Systems, Inc.
001231 (base 16) Motion Control Systems, Inc.
PO Box 115
New River VA 24129
US

00-12-24 (hex) NexQL Corporation
001224 (base 16) NexQL Corporation
12250
Inwood Road #6
Dallas TX 75244
US

00-11-50 (hex) Belkin Corporation
001150 (base 16) Belkin Corporation
501 West Walnut Street
Compton CA 90220-5221
US

00-11-46 (hex) Telecard-Pribor Ltd
001146 (base 16) Telecard-Pribor Ltd
Lustdorfskaya doroga, 162
Odessa 65115
UA

00-11-AA (hex) Uniclass Technology, Co., LTD
0011AA (base 16) Uniclass Technology, Co., LTD
4F, No. 98, Ming chuan Rd
Hsintien City Taipei Hsien 231
TW

00-11-B1 (hex) BlueExpert Technology Corp.
0011B1 (base 16) BlueExpert Technology Corp.
8F,No.16,Lane 77,Xing-Ai Rd,Nei-Hu District

Taipei 11494
TW

00-11-A6 (hex) Sypixx Networks
0011A6 (base 16) Sypixx Networks
108 Bank Street
Waterbury CT 06702
US

00-11-66 (hex) Taelim Electronics Co., Ltd.
001166 (base 16) Taelim Electronics Co., Ltd.
196-5, ANYANG7-DONG MANAN-GU
ANYANG-SI KYUGGI-DO 430-817
KR

00-11-64 (hex) ACARD
Technology Corp.
001164 (base 16) ACARD Technology Corp.
6F No.78 Sec1 Kwang Fu Road, Sanchung,
Taipei Hsien 241
TW

00-11-55 (hex) Sevis Systems
001155 (base 16) Sevis Systems
2805 N Dallas Parkway, STE 530
Plano Texas 75093
US

00-11-52 (hex) Eidsvoll Electronics AS
001152 (base 16) Eidsvoll Electronics AS
Nedre Vilberg vei 8
Eidsvoll N-2080
NO

00-11-7E (hex) Midmark Corp
00117E (base 16) Midmark Corp
1001 Asbury Dr
Buffalo Grove IL 60089
US

00-11-79 (hex) Singular Technology Co. Ltd.
001179 (base 16) Singular Technology Co. Ltd.
21F, No.37, Sec.2, San Min Rd.,
Taipei 220
TW

00-11-8A (hex) Viewtran Technology Limited
00118A (base 16) Viewtran Technology Limited

3/F, R2-A builiding, High Tech Industrial Park,
Shenzhen Guangdong 518057
CN

00-11-84 (hex) Humo Laboratory,Ltd.
001184 (base 16) Humo Laboratory,Ltd.
Nishiogi-Kita 5-19-11
Suginami-ku
Tokyo 167-0042
JP

00-11-4C (hex) caffeina applied research ltd.
00114C (base 16) caffeina applied research ltd.
125 baird ave
cochrane alberta t4c 1c7
CA

00-11-41 (hex) GoodMan Corporation
001141 (base 16) GoodMan Corporation
2F, No.572, Sec.1, Ming-Sheng N Road, Kwei-Shan Hsiang
Taoyuan Hsien 33300
TW

00-11-A2 (hex) Manufacturing Technology Inc
0011A2 (base 16) Manufacturing Technology Inc
70 Ready Ave NW
Fort Walton Beach FL 32548
US

00-11-9E (hex) Solectron Brazil
00119E (base 16) Solectron Brazil
Rod. Campinas Mogi Mirim
Jaguariuna SP 13820-000
BR

00-11-73 (hex) SMART Storage Systems
001173 (base 16) SMART Storage Systems
2600 W Geronimo Place
Chandler AZ 85224
US

00-11-1C (hex) Pleora Technologies Inc.
00111C (base 16) Pleora Technologies Inc.
359 Terry Fox Drive, Suite 230
Kanata ON K2K 2E7
CA

00-11-25 (hex) IBM Corp

001125
(base 16) IBM Corp
3039 E Cornwallis Road
Research Triangle Park NC 27709-2195
US

00-11-1F (hex) Doremi Labs, Inc.
00111F (base 16) Doremi Labs, Inc.
306 E. Alameda Ave.
Burbank CA 91502
US

00-11-1D (hex) Hectrix Limited
00111D (base 16) Hectrix Limited
Unit 906-911, 9/F, Stanhope Hosue,
North Point Hong Kong
CN

00-11-19 (hex) Solteras, Inc.
001119 (base 16) Solteras, Inc.
900 W. Santa Anita Street
San Gabriel CA 91776
US

00-11-14 (hex) EverFocus Electronics Corp.
001114 (base 16) EverFocus Electronics Corp.
2F., No.8, Ln. 270, Sec. 3, Beishen Rd.,
New Taipei City Shenkeng Dist. 222
TW

00-11-0E (hex) Tsurusaki Sealand Transportation Co. Ltd.
00110E (base 16) Tsurusaki Sealand Transportation Co. Ltd.
1000 Misa
Oita 8700196
JP

00-0F-D7 (hex) Harman Music Group
000FD7 (base 16) Harman Music Group
8760 Sandy Parkway
Sandy Utah 84070
US

00-0F-D4
(hex) Soundcraft
000FD4 (base 16) Soundcraft
Cranborne House
Potters Bar Hertfordshire EN6 3JN
GB

00-0F-CF (hex) DataWind Research
000FCF (base 16) DataWind Research
555 Rene-Levesque West
Montreal Quebec H2Z 1B1
CA

00-0F-D2 (hex) EWA Technologies, Inc.
000FD2 (base 16) EWA Technologies, Inc.
13873 Park Center Road
Herndon VA 20171
US

00-0F-CE (hex) Kikusui Electronics Corp.
000FCE (base 16) Kikusui Electronics Corp.
1-1-3,Higashi yamata
Yokohama Kanagawa 224-0023
JP

00-0F-A1 (hex) Gigabit Systems Inc.
000FA1 (base 16) Gigabit Systems Inc.
Fuyoh Video Building 3F
Yokohama Kanagawa 241-0826
JP

00-0F-99 (hex) APAC opto Electronics Inc.
000F99 (base 16) APAC opto Electronics Inc.
3 Tzu Chiang Road, Hsinchu Industrial Park
Hukow, Hsinchu Hsien 303
TW

00-0F-8E (hex) DONGYANG TELECOM CO.,LTD.
000F8E (base 16) DONGYANG TELECOM
CO.,LTD.
642-7, DEUNGCHON-DONG, KANGSEO-GU
SEOUL KANGSE-GU 157-841
KR

00-0F-91 (hex) Aerotelecom Co.,Ltd.
000F91 (base 16) Aerotelecom Co.,Ltd.
195-58 Anyang 7 Dong
Anyang Kyunggi 430-817
US

00-0F-E8 (hex) Lobos, Inc.
000FE8 (base 16) Lobos, Inc.
U&T Bldg 3F, 1-2-3 Sarugaku-cho, Chiyoda-ku,
Tokyo 101-0064

JP

00-0F-EB (hex) Cylon Controls
000FEB (base 16) Cylon Controls
Clonshaugh Industrial Estate
Dublin 17
IE

00-0F-DC (hex) Ueda Japan Radio Co., Ltd.
000FDC (base 16) Ueda Japan Radio Co., Ltd.
Fumiiri 2-10-19
Ueda city Nagano prefecture 386-8608
JP

00-0F-F4 (hex) Guntermann & Drunck GmbH
000FF4 (base 16) Guntermann & Drunck GmbH
Obere Leimbach 9
Siegen NRW 57074
DE

00-0F-F8 (hex) Cisco Systems, Inc
000FF8 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0F-F5 (hex) GN&S company
000FF5 (base 16) GN&S
company
301 Ansan S/W center, 643-7 wongok-dong
Ansan city Gyeonggi-do 425-130
KR

00-0F-B2 (hex) Broadband Pacenet (India) Pvt. Ltd.
000FB2 (base 16) Broadband Pacenet (India) Pvt. Ltd.
7-B, Shah Industrial Estate, Off Veera Desai Road
Mumbai Maharashtra 400 053
IN

00-11-2C (hex) IZT GmbH
00112C (base 16) IZT GmbH
Am Weichselgarten 5
Erlangen Bavaria 91058
DE

00-11-0D (hex) SANBlaze Technology, Inc.
00110D (base 16) SANBlaze Technology, Inc.
2 Clock Tower Place

Maynard MA 01748
US

00-11-06 (hex) Siemens NV (Belgium)
001106 (base 16) Siemens NV (Belgium)
Atealaan 34
Herentals Antwerp 2200
BE

00-0F-AF (hex) Dialog Inc.
000FAF (base 16) Dialog Inc.
1-47-9
Toshima-ku Tokyo 1700013
JP

00-0F-A5 (hex) BWA Technology GmbH
000FA5 (base 16) BWA Technology GmbH
Johann-Krane-Weg 21
Muenster 48149
DE

00-0F-29 (hex) Augmentix Corporation
000F29
(base 16) Augmentix Corporation
4030 W Braker Ln
Austin Texas 78759
US

00-0F-27 (hex) TEAL Electronics, Inc.
000F27 (base 16) TEAL Electronics, Inc.
10350 Sorrento Valley Road
San Diego California 92121
US

00-0F-73 (hex) RS Automation Co., Ltd
000F73 (base 16) RS Automation Co., Ltd
447-6, Gongse-Dong , Giheung-Gu
Youngin-City Gyeonggi-Do 449-902
KR

00-0F-78 (hex) Datacap Systems Inc
000F78 (base 16) Datacap Systems Inc
100 New Britain Blvd
Chalfont PA 18914
US

00-0F-70 (hex) Wintec Industries, inc.
000F70 (base 16) Wintec Industries, inc.

675 Sycamore Drive
Milpitas, CA 95035
US

00-0F-74 (hex) Qamcom Technology AB
000F74 (base 16) Qamcom Technology AB
Gruvgatan 8
Vastra Frolunda
SE

00-0F-6D (hex) Midas Engineering
000F6D (base 16) Midas Engineering
Ace Techno-Tower V #906 197-22
Seoul 152-848
KR

00-0F-43 (hex) Wasabi Systems
Inc.
000F43 (base 16) Wasabi Systems Inc.
500 E. Main Street
Norfolk VA 23510
US

00-0F-48 (hex) Polypix Inc.
000F48 (base 16) Polypix Inc.
1Fl, Sungdo Venture Tower, 165-2 Samsung-Dong, Kangnam-Ku
Seoul 135-881
KR

00-0F-50 (hex) StreamScale Limited
000F50 (base 16) StreamScale Limited
The Court, Alexandra Park
St Helens WA10 3TP
GB

00-0F-47 (hex) ROBOX SPA
000F47 (base 16) ROBOX SPA
via Sempione 82
Castelletto S.Ticino NO 28053
IT

00-0F-4E (hex) Cellink
000F4E (base 16) Cellink
Catherinalaan 37
Rotselaar Vlaams Brabant B-3110
BE

00-0F-0F (hex) Real ID Technology Co., Ltd.

000F0F (base 16) Real ID Technology Co., Ltd.
9F Hanmi B/D 192-19
Gangnam-Gu Seoul 135-010
KR

00-0F-16 (hex) JAY HOW TECHNOLOGY CO.,
000F16 (base 16) JAY HOW TECHNOLOGY CO.,
NO.486,SEC. 1, WAN SHOU RD., KUEI
TAOYUAN HSIEN 333
TW

00-0F-5F (hex) Nicety Technologies
Inc. (NTS)
000F5F (base 16) Nicety Technologies Inc. (NTS)
792-3 Tomioka Toyoda-cho
Iwata-gun Shizuoka 438-0803
JP

00-0F-5A (hex) Peribit Networks
000F5A (base 16) Peribit Networks
2855 Bowers Ave
Santa Clara CA 95051
US

00-0F-18 (hex) Industrial Control Systems
000F18 (base 16) Industrial Control Systems
Houtschelf 1
Hardinxveld Zuid-Holland NL-3371 KB
NL

00-0F-1D (hex) Cosmo Techs Co., Ltd.
000F1D (base 16) Cosmo Techs Co., Ltd.
2-6-1, Matsue
Atsugi-shi Kanagawa-ken 243-0005
JP

00-0F-1B (hex) Ego Systems Inc.
000F1B (base 16) Ego Systems Inc.
1206 Woolim e-Biz Center II
Seoul 150-834
KR

00-0F-3C (hex) Endeleo Limited
000F3C (base 16) Endeleo Limited
78 Cannon Street
London England EC4N 6NQ
GB

00-0F-31 (hex) Allied Vision Technologies Canada Inc
000F31 (base 16) Allied Vision Technologies Canada Inc
101-3750 North Fraser Way
Burnaby
BC V5J 5E9
CA

00-0F-87 (hex) Maxcess International
000F87 (base 16) Maxcess International
222 W. Memorial Road
Oklahoma City OK 73114
US

00-0F-80 (hex) Trinity Security Systems,Inc.
000F80 (base 16) Trinity Security Systems,Inc.
Alte Building Higashi Kanda 8F
Chiyoda-ku Tokyo 101-0031
JP

00-0E-8E (hex) SparkLAN Communications, Inc.
000E8E (base 16) SparkLAN Communications, Inc.
3Fl . , No. 246, Sec. 1, Neihu Road., Neihu Chiu,
Taipei 114
TW

00-0E-91 (hex) Navico Auckland Ltd
000E91 (base 16) Navico Auckland Ltd
17-21 Kawana St
Northcote Auckland
NZ

00-0E-84 (hex) Cisco Systems, Inc
000E84 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0E-87 (hex) adp Gauselmann GmbH
000E87 (base 16) adp Gauselmann GmbH
Boschstraße 8
Luebbecke NRW 32312
DE

00-0E-F9 (hex) REA Elektronik GmbH
000EF9 (base 16) REA Elektronik
GmbH
Teichwiesenstraße 1
Muehltal Hessen 64367

DE

00-0E-F6 (hex) E-TEN Information Systems Co., Ltd.
000EF6 (base 16) E-TEN Information Systems Co., Ltd.
No. 256, Yangguang Street, Neihu Chiu
Taipei 114
TW

00-0E-EA (hex) Shadong Luneng Jicheng Electronics,Co.,Ltd
000EEA (base 16) Shadong Luneng Jicheng Electronics,Co.,Ltd
No.188,east,Huayuan Road
Jinan Shandong 250100
CN

00-0E-E6 (hex) Adimos Systems LTD
000EE6 (base 16) Adimos Systems LTD
17 Atirey-Yeda Street
Kfar-Saba 44643
IL

00-0E-E0 (hex) Mcharge
000EE0 (base 16) Mcharge
Firstec Bldg,. 15-4 Youido-Dong
seoul Youido 150-010
KR

00-0E-F8 (hex) SBC ASI
000EF8 (base 16) SBC ASI
Network & Infrastructure Technical Support
San Antonio Texas 78215
US

00-0E-AB (hex) Cray Inc
000EAB (base 16) Cray Inc
901 Fifth Avenue
Seattle WA 98104
US

00-0E-AD (hex) Metanoia Technologies, Inc.
000EAD
(base 16) Metanoia Technologies, Inc.
5918 W. courtyard Dr.
Austin TX 78730
US

00-0E-AF (hex) CASTEL
000EAF (base 16) CASTEL
ZI Saint Lambert des Levées

SAUMUR Maine et Loire 49412
FR

00-0E-75 (hex) New York Air Brake Corp.
000E75 (base 16) New York Air Brake Corp.
748 Starbuck Ave.
Watertown NY 13601
US

00-0E-92 (hex) Open Telecom
000E92 (base 16) Open Telecom
803-804 Daeryung Techno-town II
Keuncheon-Ku Seoul 153-771
KR

00-0E-96 (hex) Cubic Defense Applications, Inc.
000E96 (base 16) Cubic Defense Applications, Inc.
P.O. Box 85587
San Diego CA 92186-5587
US

00-0E-9F (hex) TEMIC SDS GmbH
000E9F (base 16) TEMIC SDS GmbH
Soeflinger Strasse 100
Ulm 89077
DE

00-0E-C6 (hex) ASIX ELECTRONICS CORP.
000EC6 (base 16) ASIX ELECTRONICS CORP.
4F, NO.8, HSIN ANN RD.,
HSINCHU 300
TW

00-0E-BF (hex) Remsdaq Limited
000EBF (base
16) Remsdaq Limited
Parkway
Deeside Flintshire CH5 2NL
GB

00-0D-FD (hex) Huges Hi-Tech Inc.,
000DFD (base 16) Huges Hi-Tech Inc.,
7F, 188, Sec. 2, Chung Hsing Road.
Hsin Tien Taipei Hsien 231
TW

00-0D-F9 (hex) NDS Limited
000DF9 (base 16) NDS Limited

One Heathrow Boulevard
West Drayton Middlesex UB7 0DQ
GB

00-0D-FB (hex) Komax AG
000DFB (base 16) Komax AG
Industriestrasse 6
Dierikon LU 6036
CH

00-0E-00 (hex) Atrie
000E00 (base 16) Atrie
10th Floor, 14, Lane 609, Sec. 5, Chung Hsin Rd., San Chung City,
Taipei Hsien San Chung 241
TW

00-0D-F4 (hex) Watertek Co.
000DF4 (base 16) Watertek Co.
Room 1006,Haitai building,north si Huan
Beijing 100083
CN

00-0D-FA (hex) Micro Control Systems Ltd.
000DFA (base 16) Micro Control Systems Ltd.
8-7 Sakurai
Saku-shi Nagano 385-0056
JP

00-0D-FC (hex) ITFOR Inc.
000DFC (base 16) ITFOR Inc.
Ichibancho
Tokyu Bidg.,
Tokyo 102-0082
JP

00-0D-FE (hex) Hauppauge Computer Works, Inc.
000DFE (base 16) Hauppauge Computer Works, Inc.
91 Cabot Court
Hauppauge New York 11788
US

00-0E-68 (hex) E-TOP Network Technology Inc.
000E68 (base 16) E-TOP Network Technology Inc.
No. 7, Shin Shin Rd.,
Tainan 702
TW

00-0E-56 (hex) 4G Systems GmbH & Co. KG

000E56 (base 16) 4G Systems GmbH & Co. KG
Jarrestrasse 2-6
22303 Hamburg
DE

00-0E-55 (hex) AUVITRAN
000E55 (base 16) AUVITRAN
7c chemin des Prés
MEYLAN 38410
FR

00-0E-0F (hex) ERMME
000E0F (base 16) ERMME
9 rue Lavoisier
Vert-Le-Petit 91710
FR

00-0E-10 (hex) C-guys, Inc.
000E10 (base 16) C-guys, Inc.
Izumi Garden Wing 1F, 1-6-3
Tokyo 106-0032
JP

00-0E-13 (hex) Accu-Sort Systems inc.
000E13 (base 16) Accu-Sort Systems inc.
511 School House Road
Telford PA 18969
US

00-0E-0A
(hex) SAKUMA DESIGN OFFICE
000E0A (base 16) SAKUMA DESIGN OFFICE
674-11
KUKI-SHI SAITAMA 346-0029
JP

00-0E-0E (hex) ESA elettronica S.P.A.
000E0E (base 16) ESA elettronica S.P.A.

Mariano Comense CO 22066
IT

00-0E-7C (hex) Televes S.A.
000E7C (base 16) Televes S.A.
Rua Benefica Conxo 17
Santiago de Compostela Coruña 15706
ES

00-0E-73 (hex) Tpack A/S
000E73 (base 16) Tpack A/S
Lautrupbjerg 7 - 11
DK 2750 Ballerup DK 2750
DK

00-0E-6E (hex) MAT S.A. (Mircrelec Advanced Technology)
000E6E (base 16) MAT S.A. (Mircrelec Advanced Technology)
Mousounitsis 15
Peristeri Athens
GR

00-0E-66 (hex) Hitachi Industry & Control Solutions, Ltd.
000E66 (base 16) Hitachi Industry & Control Solutions, Ltd.
5-1-26, Omika-cho, Hitachi-shi, Ibaraki
319-1221
JP

00-0E-48 (hex) Lipman TransAction Solutions
000E48 (base 16) Lipman TransAction Solutions
11 Haamal
St.
Rosh-Haayin 48092
IL

00-0E-3E (hex) Sun Optronics Inc
000E3E (base 16) Sun Optronics Inc
4-38-4 Fuchinobe-honchou
Sagamihara Kanagawa 229-0002
JP

00-0E-33 (hex) Shuko Electronics Co.,Ltd
000E33 (base 16) Shuko Electronics Co.,Ltd
TOHSHIN HIGASHI-IKEBUKURO Building 3F
TOKYO KANTOH 170-0063
JP

00-0E-3A (hex) Cirrus Logic
000E3A (base 16) Cirrus Logic
2901 Via Fortuna
Austin TX 78746
US

00-0E-27 (hex) Crere Networks, Inc.
000E27 (base 16) Crere Networks, Inc.
Room 110 ETRI TBI, 52 Eoeun-dong
Daejeon 305-333
KR

00-0E-18 (hex) MyA Technology
000E18 (base 16) MyA Technology
2100 Muirwood Way
San Jose CA 95132
US

00-0E-14 (hex) Visionary Solutions, Inc.
000E14 (base 16) Visionary Solutions, Inc.
4193 Carpinteria Ave
Carpinteria CA 93013
US

00-0E-1B (hex) IAV GmbH
000E1B (base 16) IAV GmbH
Carnotstraße 1
Berlin 10587
DE

00-0D-EC
(hex) Cisco Systems, Inc
000DEC (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0D-F2 (hex) Private
000DF2 (base 16) Private

00-0E-3B (hex) Hawking Technologies, Inc.
000E3B (base 16) Hawking Technologies, Inc.
15281A Barranca Parkway
Irvine CA 92618
US

00-0E-53 (hex) AV TECH CORPORATION
000E53 (base 16) AV TECH CORPORATION
10F,E Building,No.19-11 San Chung Rd.,NanKang
Taipei 115
TW

00-0D-DA (hex) ALLIED TELESIS K.K.
000DDA (base 16) ALLIED TELESIS K.K.
PIAZZA TIRANA N. 24/4 B
MILANO 20147
IT

00-0D-D6 (hex) ITI LTD

000DD6 (base 16) ITI LTD
R&D,ITI Bangalore Complex
Dooravani Nagar, Bangalore Karnataka State 560016
IN

00-0D-D5 (hex) O'RITE TECHNOLOGY CO.,LTD
000DD5 (base 16) O'RITE TECHNOLOGY CO.,LTD
4f-8,NO 80,GUANGFU RD.SEC 2,SANCHUNG
TAIPEI COUNTY 241
TW

00-0D-9B (hex) Heraeus Electro-Nite
International N.V.
000D9B (base 16) Heraeus Electro-Nite International N.V.
Centrum Zuid 1105
Houthalen 3530
BE

00-0D-8A (hex) Winners Electronics Co., Ltd.
000D8A (base 16) Winners Electronics Co., Ltd.
#340-5,Wonchun-Dong,Paldal-Gu
Suwon-City Kyungki-Do 442-823
KR

00-0D-8E (hex) Koden Electronics Co., Ltd.
000D8E (base 16) Koden Electronics Co., Ltd.
5278 Uenohara
Yamanashi-Ken 409-0112
JP

00-0D-7E (hex) Axiowave Networks, Inc.
000D7E (base 16) Axiowave Networks, Inc.
200 Nickerson Road
Marlborough MA 01752
US

00-0D-A0 (hex) NEDAP N.V.
000DA0 (base 16) NEDAP N.V.
P.O.Box 103
GROENLO GLD 7141 AC
NL

00-0D-6B (hex) Mita-Teknik A/S
000D6B (base 16) Mita-Teknik A/S
Haandvaerkervej 1
Roedkaersbro DK-8840
DK

00-0D-71 (hex) boca systems
000D71 (base 16) boca systems
1065 s. rogers circle
boca raton fl 33487
US

00-0D-5A (hex) Tiesse
SpA
000D5A (base 16) Tiesse SpA
Via Asti
Ivrea TO 10015
IT

00-0D-CD (hex) GROUPE TXCOM
000DCD (base 16) GROUPE TXCOM
ZI DU PETIT CLAMART
LE PLESSIS ROBINSON HAUTS-DE-SEINE 92350
FR

00-0D-CF (hex) Cidra Corp.
000DCF (base 16) Cidra Corp.
50 Barns Park North
Wallingford CT 06492
US

00-0D-CA (hex) Tait Electronics
000DCA (base 16) Tait Electronics
535 Wairakei Rd
Christchurch Canterbury 8005
NZ

00-0D-B8 (hex) SCHILLER AG
000DB8 (base 16) SCHILLER AG
Altgasse 68
Baar Zug 6300
CH

00-0D-C4 (hex) Emcore Corporation
000DC4 (base 16) Emcore Corporation
1600 Eubank Blvd, SE
Albuquerque New Mexico 87123
US

00-0D-DE (hex) Joyteck Co., Ltd.
000DDE (base 16) Joyteck Co., Ltd.
19F, No.4, Sec. 3, Min Chuan East Rd.
Taipei 105
TW

00-0D-E2 (hex) CMZ Sistemi Elettronici
000DE2 (base 16) CMZ Sistemi Elettronici
Via dell'Artiginato,
21
Vascon di Carbonera Treviso 31050
IT

00-0D-7C (hex) Codian Ltd
000D7C (base 16) Codian Ltd
14 Waterside Drive
Langley Slough SL3 6EZ
GB

00-0D-43 (hex) DRS Tactical Systems Inc.
000D43 (base 16) DRS Tactical Systems Inc.
3520 U.S. Highway 1
Palm Bay FL 32905
US

00-0D-44 (hex) Audio BU - Logitech
000D44 (base 16) Audio BU - Logitech
1499 SE Tech Center Place
Vancouver WA 98683
US

00-0D-3D (hex) Hammerhead Systems, Inc.
000D3D (base 16) Hammerhead Systems, Inc.
640 Clyde Court
Mountain View California 94043
US

00-0D-3E (hex) APLUX Communications Ltd.
000D3E (base 16) APLUX Communications Ltd.
10F, No. 166, Dah-Yeh Rd., Peitou
Taipei 112
TW

00-0D-36 (hex) Wu Han Routon Electronic Co., Ltd
000D36 (base 16) Wu Han Routon Electronic Co., Ltd
Miao Shan District, East Lake Hi-Tech
Wuhan Hubei 430223
CN

00-0D-3B (hex) Microelectronics Technology
Inc.
000D3B (base 16) Microelectronics Technology Inc.
No1, Innovation Road II

300
TW

00-0D-52 (hex) Comart system
000D52 (base 16) Comart system
No. 211, Ace Techno Tower III, 197-48
Seoul 152-050
KR

00-0D-4A (hex) Steag ETA-Optik
000D4A (base 16) Steag ETA-Optik
Borsigstrasse 78.-80
Heinsberg 52525
DE

00-0D-4F (hex) Kenwood Corporation
000D4F (base 16) Kenwood Corporation
2967-3, Ishikawa-machi
Hachioji-shi Tokyo 192-8525
JP

00-0D-47 (hex) Collex
000D47 (base 16) Collex
13F-3,No.142,Sec.1,Huamei W,St.,Shi Chiu
Taichung 403
TW

00-0C-FF (hex) MRO-TEK Realty Limited
000CFF (base 16) MRO-TEK Realty Limited
#6, New BEL Road
Chikkamaranahalli Bangalore 560 054
IN

00-0C-FA (hex) Digital Systems Corp
000CFA (base 16) Digital Systems Corp
3 North Main Street
Walkersville Maryland 21793
US

00-0C-FD (hex) Hyundai ImageQuest
Co.,Ltd.
000CFD (base 16) Hyundai ImageQuest Co.,Ltd.
San 136-1, Ami-ri, Bubal-eub
Ichon-si Kyoung ki-do 467-701
KR

00-0C-EB (hex) CNMP Networks, Inc.
000CEB (base 16) CNMP Networks, Inc.

1245 S. Winchester Blvd.
San Jose CA 95128
US

00-0C-D3 (hex) Prettl Elektronik Radeberg GmbH
000CD3 (base 16) Prettl Elektronik Radeberg GmbH
Robert-Bosch-Str. 10
Radeberg Saxony D-01454
DE

00-0D-1E (hex) Control Techniques
000D1E (base 16) Control Techniques
The Gro
Newtown Powys SY16 3BE
GB

00-0D-0D (hex) ITSupported, LLC
000D0D (base 16) ITSupported, LLC
4989 Peachtree Parkway
Norcross GA 30092
US

00-0D-06 (hex) Compulogic Limited
000D06 (base 16) Compulogic Limited
Unit W3, MK TWO Business Centre
Water Eaton Milton Keynes MK2 3HU
GB

00-0D-03 (hex) Matrics, Inc.
000D03 (base 16) Matrics, Inc.
8850 Stanford Blvd
Columbia MD 21045
US

00-0D-61
(hex) Giga-Byte Technology Co., Ltd.
000D61 (base 16) Giga-Byte Technology Co., Ltd.
No 6, Bau Chiang Road, Hsin-Tien
Taipei Hsien 9999
TW

00-0D-2D (hex) NCT Deutschland GmbH
000D2D (base 16) NCT Deutschland GmbH
Wildenbruchstraße 15
Jena Thüringen 07745
DE

00-0D-1A (hex) Mustek System Inc.

000D1A (base 16) Mustek System Inc.
No. 25, R&D Road, Science-Based Industri
Hsin-Chu 300
TW

00-0C-64 (hex) X2 MSA Group
000C64 (base 16) X2 MSA Group
Care of: Agilent Technologies
Ipswich, Suffolk IP1 5PB
GB

00-0C-88 (hex) Apache Micro Peripherals, Inc.
000C88 (base 16) Apache Micro Peripherals, Inc.
17526 Von Karman Ave
Irvine CA 92614
US

00-0C-82 (hex) NETWORK TECHNOLOGIES INC
000C82 (base 16) NETWORK TECHNOLOGIES INC
1275 DANNER DRIVE
AURORA OH 44202
US

00-0C-7C (hex) Internet Information Image Inc.
000C7C (base 16) Internet Information Image Inc.
Fl.
6, No. 1, Alley 20, Lane 26, Rueigua
Taipei 114
TW

00-0C-7B (hex) ALPHA PROJECT Co.,Ltd.
000C7B (base 16) ALPHA PROJECT Co.,Ltd.
834 Sekishi,Higashi-ku,Hamamatsu-city
Shizuoka 431-3114
JP

00-0C-77 (hex) Life Racing Ltd
000C77 (base 16) Life Racing Ltd
Unit 6 Repton Close
Basildon Essex SS13 1LE
GB

00-0C-BD (hex) Interface Masters, Inc
000CBD (base 16) Interface Masters, Inc
2381 Zanker Rd., Suite 130
San Jose California 95131
US

00-0C-B2 (hex) UNION co., ltd.
000CB2 (base 16) UNION co., ltd.
14Beon-Gil 17, UiChang-Gu,
GyeongSnagNam-Do 641-846
KR

00-0C-B9 (hex) LEA
000CB9 (base 16) LEA
Bat LA FAYETTE
Paris RP 924051
FR

00-0C-B8 (hex) MEDION AG
000CB8 (base 16) MEDION AG
Am Zehnthof 77
Essen NRW 45307
DE

00-0C-BB (hex) ISKRAEMECO
000CBB (base 16) ISKRAEMECO
Savska loka 4
Kranj Gorenjska 4000
SI

00-0C-C0 (hex) Genera
Oy
000CC0 (base 16) Genera Oy
Niittylanpolku 16
Helsinki 00621
FI

00-0C-A0 (hex) StorCase Technology, Inc.
000CA0 (base 16) StorCase Technology, Inc.
17600 Newhope St.
Fountain Valley CA 92708
US

00-0C-99 (hex) HITEL LINK Co.,Ltd
000C99 (base 16) HITEL LINK Co.,Ltd
Samsung Omni Tower 4th Fl., 395-62
Seoul 156-010
KR

00-0C-69 (hex) National Radio Astronomy Observatory
000C69 (base 16) National Radio Astronomy Observatory
P.O. Box O
Socorro NM 87801
US

00-0C-66 (hex) Pronto Networks Inc
000C66 (base 16) Pronto Networks Inc
4637 Chabot Dr
Pleasanton CA 94588
US

00-0C-4E (hex) Winbest Technology CO,LT
000C4E (base 16) Winbest Technology CO,LT
7F-5No.736 Chung ChengRd.,ChungHo
Taipei 235
TW

00-0C-A8 (hex) Garuda Networks Corporation
000CA8 (base 16) Garuda Networks Corporation
48499 Milmont Drive
Fremont CA 94538
US

00-0C-A7
(hex) Metro (Suzhou) Technologies Co., Ltd.
000CA7 (base 16) Metro (Suzhou) Technologies Co., Ltd.
No.221 Xinghai Street, Suzhou Industrial Park
Suzhou Jiang Su Province 215021
CN

00-0C-C7 (hex) Intelligent Computer Solutions Inc.
000CC7 (base 16) Intelligent Computer Solutions Inc.
9350 Eton St.
Chatsworth CA 91301
US

00-0C-BE (hex) Innominate Security Technologies AG
000CBE (base 16) Innominate Security Technologies AG
Rudower Chaussee 13
12489 Berlin
DE

00-0C-89 (hex) AC Electric Vehicles, Ltd.
000C89 (base 16) AC Electric Vehicles, Ltd.
Markkinakuja 3
Jokela 05400
FI

00-0C-D7 (hex) Nallatech Ltd
000CD7 (base 16) Nallatech Ltd
Boolean House
Glasgow Scotland G68 0BH

GB

00-0C-D4 (hex) Positron Public Safety Systems inc.
000CD4 (base 16) Positron Public Safety Systems inc.
5101 Buchan
Montreal Quebec H4P 2R9
CA

00-0C-CC (hex) Aeroscout Ltd.
000CCC
(base 16) Aeroscout Ltd.
3 Pekeris St.
Rehovot 76701
IL

00-0B-F2 (hex) Chih-Kan Technology Co., Ltd.
000BF2 (base 16) Chih-Kan Technology Co., Ltd.
No. 24-1, Pei Shih Chou, Ming Ho Vill.
Shan Sun Hsiang Tainan Hsien 180
TW

00-0B-EB (hex) Systegra AG
000BEB (base 16) Systegra AG
Burgunderstrasse 15
Bellach SO 4512
CH

00-0B-EF (hex) Code Corporation
000BEF (base 16) Code Corporation
11814 S. Election Rd., Ste 200
Draper Utah 84020
US

00-0B-DF (hex) Shenzhen RouterD Networks Limited
000BDF (base 16) Shenzhen RouterD Networks Limited
8/F, Building A, Tsinghua Hi-Tech Park
Shenzhen
CN

00-0B-E6 (hex) Datel Electronics
000BE6 (base 16) Datel Electronics
Stafford Road
Stone Staffordshire ST15 0DG
GB

00-0C-45 (hex) Animation Technologies Inc.
000C45 (base 16) Animation Technologies Inc.
8F,No.138,Lane 235,Paochiao Road,

Taipei Hsien 231
TW

00-0C-3C
(hex) MediaChorus, Inc.
000C3C (base 16) MediaChorus, Inc.
#205, ETRI TBI 2 Center
Daejon DJ 305-333
KR

00-0C-38 (hex) TelcoBridges Inc.
000C38 (base 16) TelcoBridges Inc.
586 Du Chenal
Repentigny Quebec J6A 7C5
CA

00-0B-F5 (hex) Shanghai Sibo Telecom Technology Co.,Ltd
000BF5 (base 16) Shanghai Sibo Telecom Technology Co.,Ltd
Floor 6 Building 18,300 Tianlin Rd.
Shanghai 200233
CN

00-0B-FE (hex) CASTEL Broadband Limited
000BFE (base 16) CASTEL Broadband Limited
9/F., Sui Ying Industrial Building.,
Tokwawan Kowloon 150
HK

00-0C-2A (hex) OCTTEL Communication Co., Ltd.
000C2A (base 16) OCTTEL Communication Co., Ltd.
7F-1, No.300, Daduen 10th St.
Taichung City 408
TW

00-0C-22 (hex) Double D Electronics Ltd
000C22 (base 16) Double D Electronics Ltd
Unit 6, Robins Wharf
Northfleet Kent DA11 9AX
GB

00-0C-1C (hex) MicroWeb Co., Ltd.
000C1C
(base 16) MicroWeb Co., Ltd.
403 T/S/S/C, 23-14 Jang-dong, Yusong-gu,
Daejeon ChoongChungDo 305-343
KR

00-0C-5A (hex) IBSmm Embedded Electronics Consulting

000C5A (base 16) IBSmm Embedded Electronics Consulting
Teufelsgrabenweg 1
Valley Bavaria D-83626
DE

00-0C-5E (hex) Calypso Medical
000C5E (base 16) Calypso Medical
2101 Fourth Avenue, Suite 1550
Seattle WA 98121
US

00-0C-61 (hex) AC Tech corporation DBA Advanced Digital
000C61 (base 16) AC Tech corporation DBA Advanced Digital
1250-G Avenida Acaso
Camarillo CA 93010
US

00-0C-0F (hex) Techno-One Co., Ltd
000C0F (base 16) Techno-One Co., Ltd
9-17-1 Higashi Sonoda
Amagasaki Hyogo 661-0953
JP

00-0C-05 (hex) RPA Reserch Co., Ltd.
000C05 (base 16) RPA Reserch Co., Ltd.
4F, 90-7, Yangjae-Dong, Seocho-Ku
Seoul 137-130
US

00-0C-5F (hex) Avtec, Inc.
000C5F (base 16) Avtec, Inc.
4335 Augusta
Hwy
Gilbert SC 29054
US

00-0C-4B (hex) Cheops Elektronik
000C4B (base 16) Cheops Elektronik
Jeschkenstrasse 32
Geretsried Bayern 82538
DE

00-0C-27 (hex) Sammy Corporation
000C27 (base 16) Sammy Corporation
SUN SHINE60 45F,3-1-1,HIGASHI-IKEBUKURO
TOSHIMA-KU TOKYO 170-6045
JP

00-0B-57 (hex) Silicon Laboratories
000B57 (base 16) Silicon Laboratories
7000 W. William Cannon Dr.
Austin TX 78735
US

00-0B-51 (hex) Micetek International Inc.
000B51 (base 16) Micetek International Inc.
7F-1, #237, Sec. 1, wu Chuan W. Rd.
Taichung 403
TW

00-0B-53 (hex) INITIUM Co., Ltd.
000B53 (base 16) INITIUM Co., Ltd.
8F. Gongduck Bldg. 272-6 Seohyun Bundang
Sungnam Kyunggi 463-824
KR

00-0B-AF (hex) WOOJU COMMUNICATIONS Co,.Ltd
000BAF (base 16) WOOJU COMMUNICATIONS Co,.Ltd
B-713, SK Twin Tech Tower, 345-9, Ga-San
Seoul 153-802
KR

00-0B-B6 (hex) Metalligence Technology
Corp.
000BB6 (base 16) Metalligence Technology Corp.
9, Park Avenue II, Science-Based Industr
Hsinchu 300
TW

00-0B-B7 (hex) Micro Systems Co.,Ltd.
000BB7 (base 16) Micro Systems Co.,Ltd.
2-15-34 Nishikubo
Musashino-City Tokyo 180-0013
JP

00-0B-B3 (hex) RiT technologies Ltd.
000BB3 (base 16) RiT technologies Ltd.
24 Raoul Walenberg St.
Tel Aviv 69719
IL

00-0B-BA (hex) Harmonic, Inc
000BBA (base 16) Harmonic, Inc
4300 North First Street
San Jose CA 95134
US

00-0B-62 (hex) ib-mohnen KG
000B62 (base 16) ib-mohnen KG
Stich 30 e
52249 Eschweiler
DE

00-0B-64 (hex) Kieback & Peter GmbH & Co KG
000B64 (base 16) Kieback & Peter GmbH & Co KG
Tempelhofer Weg 50
Berlin 12347
DE

00-0B-67 (hex) Topview Technology Corporation
000B67 (base 16) Topview Technology Corporation
No. 8,Wu-Chuan Road,Wu Ku Industrial Par
Wu Ku Hsiang,Taipei Hsien,
248
TW

00-0B-AE (hex) Vitals System Inc.
000BAE (base 16) Vitals System Inc.
Jooheung B/D 4FL. 1005-1, Youngtong-Dong
Suwon City Kyonggi-Do 442-813
KR

00-0B-D9 (hex) General Hydrogen
000BD9 (base 16) General Hydrogen
13120 Vanier Place
Richmond British Columbia V6V 2J2
CA

00-0B-94 (hex) Digital Monitoring Products, Inc.
000B94 (base 16) Digital Monitoring Products, Inc.
2500 N. Partnership Boulevard
Springfield Missouri 65803
US

00-0B-6D (hex) SOLECTRON JAPAN NAKANIIDA
000B6D (base 16) SOLECTRON JAPAN NAKANIIDA
325 GANBARA
KAMIGUN MIYAGIKEN 981-4263
JP

00-0B-AB (hex) Advantech Technology (CHINA) Co., Ltd.
000BAB (base 16) Advantech Technology (CHINA) Co., Ltd.
No.666, Han-Pu Rd. Yu-Shan
Kun-Shan Jiang Su 215316

CN

00-0B-7D (hex) SOLOMON EXTREME INTERNATIONAL LTD.
000B7D (base 16) SOLOMON EXTREME INTERNATIONAL LTD.
3F, No.20, Lane 165, Duenhua N. Rd.,
Sun
Taipei
TW

00-0B-C4 (hex) BIOTRONIK GmbH & Co
000BC4 (base 16) BIOTRONIK GmbH & Co
Woermannkehre 1
Berlin 12359
DE

00-0A-CA (hex) YOKOYAMA SHOKAI CO.,Ltd.
000ACA (base 16) YOKOYAMA SHOKAI CO.,Ltd.
6-96 Matsumura
Kanazawa Ishikawa 920-0348
JP

00-0A-CE (hex) RADIANTECH, INC.
000ACE (base 16) RADIANTECH, INC.
2-1, INDUSTRY EAST RD. 1, SCIENCE-BASED
HSIN CHU 300
TW

00-0A-C7 (hex) Unication Group
000AC7 (base 16) Unication Group
3F., No. 6, Wu-Kung 5Rd., Hsinchuang Cit
Taipei 242
TW

00-0B-48 (hex) sofrel
000B48 (base 16) sofrel
2 rue du plessis
vern sur seiche ille et vilaine 35770
FR

00-0B-4A (hex) Visimetrics (UK) Ltd
000B4A (base 16) Visimetrics (UK) Ltd
Skye House
Prestwick Ayrshire KA9 2TA
GB

00-0A-DE (hex) Happy Communication Co., Ltd.
000ADE (base 16) Happy Communication Co., Ltd.
42-11 WonMi-Dong

Bucheon-City KyungGi-Do
420-110
KR

00-0A-E2 (hex) Binatone Electronics International, Ltd
000AE2 (base 16) Binatone Electronics International, Ltd
Floor 23A, 9 Des Voeux Road West
Hong Kong China
HK

00-0A-D4 (hex) CoreBell Systems Inc.
000AD4 (base 16) CoreBell Systems Inc.
HTVC 2317 KAIST
Yuseong-Gu Daejeon 305-701
KR

00-0A-FF (hex) Kilchherr Elektronik AG
000AFF (base 16) Kilchherr Elektronik AG
Aeschistrasse 25
Muensingen BE 3110
CH

00-0A-F8 (hex) American Telecare Inc.
000AF8 (base 16) American Telecare Inc.
7640 Golden Triangle Drive
Eden Prairie MN 55344
US

00-0B-1E (hex) KAPPA opto-electronics GmbH
000B1E (base 16) KAPPA opto-electronics GmbH
Kleines Feld 6
Gleichen Niedersachsen
DE

00-0B-1C (hex) SIBCO bv
000B1C (base 16) SIBCO bv
Schoonhout 46
Etten-Leur NB 4872 ME
NL

00-0B-17 (hex) MKS Instruments
000B17 (base 16) MKS Instruments
651 Lowell
Street
Methuen MA 01844
US

00-0B-37 (hex) MANUFACTURE DES MONTRES ROLEX SA

000B37 (base 16) MANUFACTURE DES MONTRES ROLEX SA
LA HAUTE-ROUTE 82
BIEL-BIENNE BE 2502
CH

00-0A-FB (hex) Ambri Limited
000AFB (base 16) Ambri Limited
126 Greville Street
Chatswood NSW 2067
AU

00-0B-2D (hex) Danfoss Inc.
000B2D (base 16) Danfoss Inc.
7941 Corporate Dr
Baltimore MD 21236
US

00-0A-9A (hex) Aiptek International Inc
000A9A (base 16) Aiptek International Inc
No 5-1 Innovation Rd 1
Hsin-Chu 300
TW

00-0A-94 (hex) ShangHai cellink CO., LTD
000A94 (base 16) ShangHai cellink CO., LTD
C3 MeiLong ZhongXin Industrial Park,No.1
ShangHai 200237
US

00-0A-97 (hex) SONICblue, Inc.
000A97 (base 16) SONICblue, Inc.
2841 Mission College Blvd.
Santa Clara CA 95054
US

00-0A-92 (hex) Presonus Corporation
000A92 (base 16) Presonus Corporation
7257 Florida
Blvd.
Baton Rouge Louisiana 70806
US

00-0A-85 (hex) PLAT'C2,Inc
000A85 (base 16) PLAT'C2,Inc
2-3-6 SOTOKANDA
CHIYODA-KU TOKYO 101-0021
JP

00-0A-83 (hex) SALTO SYSTEMS S.L.
000A83 (base 16) SALTO SYSTEMS S.L.
Arkotz, 9
Polígonoo Lanbarren Oiartzun 20180
ES

00-0A-86 (hex) Lenze
000A86 (base 16) Lenze
PO box 101352
Hameln Lower Saxony 31763
DE

00-0A-B8 (hex) Cisco Systems, Inc
000AB8 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0A-A3 (hex) SHIMAFUJI ELECTRIC CO.,LTD.
000AA3 (base 16) SHIMAFUJI ELECTRIC CO.,LTD.
Daihyaku-seimei Kamata Bldg.3F
Tokyo 144-0051
JP

00-0A-A7 (hex) FEI Electron Optics
000AA7 (base 16) FEI Electron Optics
Achtseweg Noord 5
Eindhoven 5651GG
NL

00-0A-A6 (hex) Hochiki Corporation
000AA6 (base 16) Hochiki Corporation
246, TSURUMA
MACHIDA TOKYO 194-8577
JP

00-0A-58
(hex) Freyer & Siegel Elektronik GmbH & Co. KG
000A58 (base 16) Freyer & Siegel Elektronik GmbH & Co. KG
Neuendorfstraße 18 b
Hennigsdorf Brandenburg 16761
DE

00-0A-4E (hex) UNITEK Electronics INC.
000A4E (base 16) UNITEK Electronics INC.
1-18-4
Ohta-ku Tokyo 143-0016
US

00-0A-3D (hex) Elo Sistemas Eletronicos S.A.
000A3D (base 16) Elo Sistemas Eletronicos S.A.
Rua Edu Chaves, 547
Porto Alegre RS 90.240-620
BR

00-0A-46 (hex) ARO WELDING TECHNOLOGIES SAS
000A46 (base 16) ARO WELDING TECHNOLOGIES SAS
1, avenue de Tours
Chateau du Loir sarthe 72500
FR

00-0A-62 (hex) Crinis Networks, Inc.
000A62 (base 16) Crinis Networks, Inc.
2099 N. Collins Blvd, Suite 200
Richardson TX 75080
US

00-0A-6A (hex) SVM Microwaves s.r.o.
000A6A (base 16) SVM Microwaves s.r.o.
U Mrazovky 5
Praha 5 15000
CZ

00-0A-66 (hex) MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD.
000A66
(base 16) MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD.
1-4-13 OOYODONAKA,KITA-KU
OSAKA 531-0076
JP

00-0A-50 (hex) REMOTEK CORPORATION
000A50 (base 16) REMOTEK CORPORATION
6F-6, No 77, Sec 1, HSIN TAI WU ROAD,
HSI-CHIH TAIPEI HSIEN 221
TW

00-0A-70 (hex) MPLS Forum
000A70 (base 16) MPLS Forum
39355 California Street
Fremont CA 94538
US

00-0A-72 (hex) STEC, INC.
000A72 (base 16) STEC, INC.
3001 Daimler Street
Santa Ana CA 92705

US

00-0A-71 (hex) Avrio Technologies, Inc
000A71 (base 16) Avrio Technologies, Inc
2655 A Park Center Drive
Simi Valley CA 91356
US

00-0A-64 (hex) Eracom Technologies
000A64 (base 16) Eracom Technologies
28 Greg Chappell Drive
Burleigh Heads Qld 4220
AU

00-0A-BF (hex) HIROTA SS
000ABF (base 16) HIROTA SS
Matukawa-Kougyoudanchi
Suzaka-shi Nagano 382-0005
JP

00-0A-BC (hex) Seabridge Ltd.
000ABC (base 16) Seabridge
Ltd.
3 Hanagar St.
Hod-Hasharon Israel 45241
IL

00-0A-AC (hex) TerraTec Electronic GmbH
000AAC (base 16) TerraTec Electronic GmbH
Herrenpfad 38
Nettetal 41334
DE

00-0A-3F (hex) Data East Corporation
000A3F (base 16) Data East Corporation
4-41-10 Minami-Ogikubo
Suginami-ku TOKYO 167-0052
JP

00-0A-31 (hex) HCV Consulting
000A31 (base 16) HCV Consulting
P O Box 3692
Queensland 4212
AU

00-42-52 (hex) RLX Technologies
004252 (base 16) RLX Technologies
25231 Grograns Mill Rd

The Woodlands Tx 77380
US

00-0A-20 (hex) SVA Networks, Inc.
000A20 (base 16) SVA Networks, Inc.
840 F Ave., Suite 104
Plano TX 75074
US

00-0A-0C (hex) Scientific Research Corporation
000A0C (base 16) Scientific Research Corporation
2300 Windy Ridge Parkway
Atlanta GA 30339
US

00-09-F6 (hex) Shenzhen Eastern Digital Tech Ltd.
0009F6 (base 16) Shenzhen
Eastern Digital Tech Ltd.
Shenzhen Futian Chegongmiao Tairan
Shenzhen Guangdong 518048
CN

00-09-B9 (hex) Action Imaging Solutions
0009B9 (base 16) Action Imaging Solutions
Kings Hall, St Ives Business Park
Huntingdon Cambridgeshire PE27 4WY
GB

00-09-AC (hex) LANVOICE
0009AC (base 16) LANVOICE
1364-39 SeochoDong, #201 Jihun Bldg
Seoul 137-072
KR

00-09-B1 (hex) Kanematsu Electronics, Ltd.
0009B1 (base 16) Kanematsu Electronics, Ltd.
17-5, Kyobashi 2-chome
Chuo-ku Tokyo 104-8338
JP

00-09-B0 (hex) Onkyo Technology K.K.
0009B0 (base 16) Onkyo Technology K.K.
Lux Building (5th floor),1-1-41 Kawamata
Higashiosaka City Osaka 577-0063
JP

00-0A-24 (hex) Octave Communications
000A24 (base 16) Octave Communications

85 Northwest Boulevard
Nashua NH 03063
US

00-0A-19 (hex) Valere Power, Inc.
000A19 (base 16) Valere Power, Inc.
661 N. Plano Rd.
Richardson
Texas 75081
US

00-0A-11 (hex) ExPet Technologies, Inc
000A11 (base 16) ExPet Technologies, Inc
6F, Kyonggi Small Business Center
Suwon, Kyonggi-do, 442-270 442-770
KR

00-0A-0F (hex) Ilryung Telesys, Inc
000A0F (base 16) Ilryung Telesys, Inc
Ilryung bldg, 34-2, Cheonho-dong
SEOUL 134-861
KR

00-0A-01 (hex) SOHOware, Inc.
000A01 (base 16) SOHOware, Inc.
3050 Coronado Drive
Santa Clara CA 95054
US

00-09-EE (hex) MEIKYO ELECTRIC CO.,LTD
0009EE (base 16) MEIKYO ELECTRIC CO.,LTD
Tokyo Ferrite Building, 1-1-14 Tabatashinmachi
Tokyo Kita-ku 114-0012
JP

00-09-EC (hex) Daktronics, Inc.
0009EC (base 16) Daktronics, Inc.
315 32nd Ave
Brookings SD 57006
US

00-09-E7 (hex) ADC Techonology
0009E7 (base 16) ADC Techonology
Sakae Members Office Bld. 4-16-8, Sakae,
Nagoya Aichi 4600008
JP

00-09-E0 (hex) XEMICS S.A.

0009E0 (base 16) XEMICS S.A.
Rue
de la Maladiere 71
CH-2007 Neuchatel Neuchatel 2007
CH

00-09-CA (hex) iMaxNetworks(Shenzhen)Limited.
0009CA (base 16) iMaxNetworks(Shenzhen)Limited.
4/B,South Bldg of 29th,South District of
Shenzhen GuangDong 518057
CN

00-09-CF (hex) iAd GmbH
0009CF (base 16) iAd GmbH
Unterschlauersbacher Hauptstraße 10
Grosshabersdorf Bavaria 90613
DE

00-09-C1 (hex) PROCES-DATA A/S
0009C1 (base 16) PROCES-DATA A/S
Navervej 8
Silkeborg DK-8600
DK

00-09-BB (hex) MathStar, Inc.
0009BB (base 16) MathStar, Inc.
5900 Green Oak Drive
Minneapolis MN 55343
US

00-09-E5 (hex) Hottinger Brüel & Kjaer GmbH
0009E5 (base 16) Hottinger Brüel & Kjaer GmbH
Im Tiefen See 45
Darmstadt D-64293
DE

00-09-DE (hex) Samjin Information & Communications Co., Ltd.
0009DE (base 16) Samjin Information & Communications Co., Ltd.
MajangMyun DukPyungRi 235-2
Ichon KyongGi 467-812
KR

00-09-99
(hex) CP GEORGES RENAULT
000999 (base 16) CP GEORGES RENAULT
38 Rue Bobby Sands
44800 Saint Herblain
FR

00-09-94 (hex) Cronyx Engineering
000994 (base 16) Cronyx Engineering
Marshala Sokolovskogo str. 4
Moscow 123063
RU

00-09-88 (hex) Nudian Electron Co., Ltd.
000988 (base 16) Nudian Electron Co., Ltd.
797-28 Bangbae-Dong, Seocho-Gu
Seoul 137-060
KR

00-09-8E (hex) ipcas GmbH
00098E (base 16) ipcas GmbH
Wetterkreuz 17
Erlangen Bavaria 91058
DE

00-09-3F (hex) Double-Win Enterpirse CO., LTD
00093F (base 16) Double-Win Enterpirse CO., LTD
NO.300, Sec 1, Chung Feng Rd.
Ping Chen City Taoyuan Hsien 324
TW

00-09-3C (hex) Jacques Technologies P/L
00093C (base 16) Jacques Technologies P/L
268 Montague Rd
West End Queensland 4101
AU

00-09-35 (hex) Sandvine Incorporated
000935 (base 16) Sandvine Incorporated
170 Columbia St. W.
Waterloo
ON N2L 3L3
CA

00-09-36 (hex) Ipetronik GmbH & Co. KG
000936 (base 16) Ipetronik GmbH & Co. KG
Im Rollfeld 28
Baden-Baden Baden-Württemberg 76532
DE

00-09-60 (hex) YOZAN Inc.
000960 (base 16) YOZAN Inc.
YOZAN Bld.,3-5-18, Kitazawa
Setagaya-ku Tokyo 155-0031

JP

00-09-56 (hex) Network Systems Group, Ltd. (NSG)
000956 (base 16) Network Systems Group, Ltd. (NSG)
39 Kirpichnaya St., Suite 1302
Moscow 105187
RU

00-09-63 (hex) Dominion Lasercom Inc.
000963 (base 16) Dominion Lasercom Inc.
1716 Briarcrest Dr. Ste. 210
Bryan TX 77802
US

00-09-66 (hex) TRIMBLE EUROPE BV
000966 (base 16) TRIMBLE EUROPE BV
Meerheide 45
Eersel DZ 5521
NL

00-09-68 (hex) TECHNOVENTURE, INC.
000968 (base 16) TECHNOVENTURE, INC.
P. O. Box 5641
Pasadena Texas 77508-5641
US

00-09-61 (hex) Switchgear and Instrumentation Ltd
000961 (base 16) Switchgear and Instrumentation
Ltd
Ripley Road
Bradford West Yorkshire BD4 7EH
GB

00-09-7B (hex) Cisco Systems, Inc
00097B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-09-79 (hex) Advanced Television Systems Committee, Inc.
000979 (base 16) Advanced Television Systems Committee, Inc.
1750 K Street NW
Washington DC 20006
US

00-09-AB (hex) Netcontrol Oy
0009AB (base 16) Netcontrol Oy
Karvaamokuja 3

Helsinki FIN 00380
FI

00-09-9D (hex) Haliplex Communications
00099D (base 16) Haliplex Communications
PO Box 147
Mooroolbark Vic 3138
AU

00-09-9E (hex) Testech, Inc.
00099E (base 16) Testech, Inc.
Bundang-Technopark, C-Dong, 702-Ho, #145
Sungnam-City Kyungki-Do 463-070
KR

00-09-48 (hex) Vista Control Systems, Corp.
000948 (base 16) Vista Control Systems, Corp.
2001 West Melinda Lane
Phoenix AZ 85027
US

00-09-49 (hex) Glyph Technologies Inc.
000949
(base 16) Glyph Technologies Inc.
735 W. Clinton Street
Ithaca NY 14850
US

00-09-46 (hex) Cluster Labs GmbH
000946 (base 16) Cluster Labs GmbH
Dauerwaldweg 1
Berlin Berlin 14055
DE

00-09-37 (hex) Inventec Appliance Corp
000937 (base 16) Inventec Appliance Corp
113, Wugung 1 RD., WuKu Industrial nPark
Taipei
TW

00-09-7C (hex) Cisco Systems, Inc
00097C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-08-DE (hex) 3UP Systems
0008DE (base 16) 3UP Systems

6 Results Way
Cupertino CA 95014
US

00-08-E0 (hex) ATO Technology Ltd.
0008E0 (base 16) ATO Technology Ltd.
Rm. 1314-1346, Block B1, Yau Tong Ind. C
Hong Kong
HK

00-08-E4 (hex) Envenergy Inc
0008E4 (base 16) Envenergy Inc
6307 Carpinteria Ave
Carpinteria CA 93013
US

00-08-E3 (hex) Cisco Systems, Inc
0008E3 (base 16) Cisco Systems, Inc
80
West Tasman Drive
San Jose CA 94568
US

00-08-E5 (hex) IDK Corporation
0008E5 (base 16) IDK Corporation
6-7-10
Yamato Kanagawa 242-0007
JP

00-08-D9 (hex) Mitadenshi Co.,LTD
0008D9 (base 16) Mitadenshi Co.,LTD
1-8-6 Furuichi Asaminamiku
Hiroshima 731-0123
JP

00-08-D5 (hex) Vanguard Networks Solutions, LLC
0008D5 (base 16) Vanguard Networks Solutions, LLC
25 Forbes Boulevard
Foxboro MA 02035
US

00-09-00 (hex) TMT
000900 (base 16) TMT
11 Kiryat Mada, POB 45199
Jerusalem 91450
IL

00-08-FD (hex) BlueKorea Co., Ltd.

0008FD (base 16) BlueKorea Co., Ltd.
3F, sejong Building, 379-15, Seokyo-Dong
Seoul 121-839
KR

00-08-F8 (hex) UTC CCS
0008F8 (base 16) UTC CCS
791 Commerce Blvd
Boca Raton FL 33497
US

00-08-AE (hex) PacketFront Network Products AB
0008AE (base 16) PacketFront Network Products AB
PO 1217
Kistagangen 2, IV Kista
Stockholm SE -16428
SE

00-08-A7 (hex) iLogic Inc.
0008A7 (base 16) iLogic Inc.
Rm#318, TechnoComplex Bldg., 126-16, 5-g
Seoul 136-701
KR

00-08-C3 (hex) Contex A/S
0008C3 (base 16) Contex A/S
Svanevang 2
Allerod DK 3450
DK

00-08-BC (hex) Ilevo AB
0008BC (base 16) Ilevo AB
Box 1561
Karlstad Värmland S-651 21
SE

00-08-BD (hex) TEPG-US
0008BD (base 16) TEPG-US
100 Simplex Drive
Westminster MA 01441
US

00-09-0E (hex) Helix Technology Inc.
00090E (base 16) Helix Technology Inc.
5F, No. 6, Sec 1, Jung-Shing Rd., Wugu-S
Taipei 248
TW

00-08-CD (hex) With-Net Inc
0008CD (base 16) With-Net Inc
4FL B&B B/D 1403-4
Anyang Kyonggi 431-061
US

00-08-CC (hex) Remotec, Inc.
0008CC (base 16) Remotec, Inc.
114 Union Valley Road
Oakridge TN 37830
US

00-08-D1 (hex) KAREL INC.
0008D1 (base 16) KAREL INC.
ORGANIZE SANAYI BOLGESI
ANKARA
06935
TR

00-09-2A (hex) MYTECS Co.,Ltd.
00092A (base 16) MYTECS Co.,Ltd.
1-12-39, Taishidou
Setagaya-ku Tokyo 154-0004
JP

00-09-25 (hex) VSN Systemen BV
000925 (base 16) VSN Systemen BV
Keizersveld 83
Venray Limburg 5803 AP
NL

00-08-F3 (hex) WANY
0008F3 (base 16) WANY
CEEI Cap Alpha
Montpellier Herault 34940
FR

00-09-13 (hex) SystemK Corporation
000913 (base 16) SystemK Corporation
238-9 Higashi 1, Kita 15, Higashi-ku
Sapporo Hokkaido 065-0015
JP

00-08-23 (hex) Texa Corp.
000823 (base 16) Texa Corp.
Nara Bldg. 3F, 2-2-8 Shin-Yokohama,
222-0033
JP

00-08-28 (hex) Koei Engineering Ltd.
000828 (base 16) Koei Engineering Ltd.
3-40, 5-Chome
Osaku 547-0026
JP

00-08-2D (hex) Indus Teqsite Private Limited
00082D (base 16) Indus Teqsite Private Limited
#7, Arya Gowder Road,
Tamil Nadu 600033
IN

00-08-20 (hex) Cisco
Systems, Inc
000820 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-08-24 (hex) Nuance Document Imaging
000824 (base 16) Nuance Document Imaging
8390 Mayrand Street
Montreal Quebec H4P 2C9
CA

00-08-14 (hex) TIL Technologies
000814 (base 16) TIL Technologies
Europark DePichaury, BAT 9

FR

00-08-69 (hex) Command-e Technology Co.,Ltd.
000869 (base 16) Command-e Technology Co.,Ltd.
Suite 1108, Zhongsheng Mansion,
Beijing 100038
CN

00-08-62 (hex) NEC Eluminant Technologies, Inc.
000862 (base 16) NEC Eluminant Technologies, Inc.
14700 Avion Parkway
Chantilly VA 20151
US

00-08-61 (hex) SoftEnergy Co., Ltd.
000861 (base 16) SoftEnergy Co., Ltd.
346 Sangwangsipli-Dong,

KR

00-08-4F (hex) Qualstar Corporation
00084F (base 16) Qualstar Corporation
3990B Heritage Oak Court
Simi Valley CA 93063
US

00-08-54
(hex) Netronix, Inc.
000854 (base 16) Netronix, Inc.
3F-1, No. 31, Hsin-Tai Road,

TW

00-08-92 (hex) EM Solutions
000892 (base 16) EM Solutions
101 Hyde Rd
Yeronga Brisbane, QLD 4104
AU

00-08-8C (hex) Quanta Network Systems Inc.
00088C (base 16) Quanta Network Systems Inc.
13, 13F, Sec. 2, Pei-Tou Rd
Taipei 112
TW

00-08-8A (hex) Minds@Work
00088A (base 16) Minds@Work
15550 Rockfield Blvd. Suite C
Irvine CA 92618
US

00-08-87 (hex) Maschinenfabrik Reinhausen GmbH
000887 (base 16) Maschinenfabrik Reinhausen GmbH
Falkensteinstraße 8
Regensburg Bavaria 93059
DE

00-08-77 (hex) Liebert-Hiross Spa
000877 (base 16) Liebert-Hiross Spa
Via Leonardo da Vinci 8
Piove di Sacco Z.I. Tognana 35020
IT

00-08-7B (hex) RTX Telecom A/S
00087B (base 16) RTX Telecom A/S
Stroemmen 6

DK

00-08-5C (hex) Shanghai Dare Technologies Co. Ltd.
00085C
(base 16) Shanghai Dare Technologies Co. Ltd.
23F, China Merchants Tower,
Pudong New Area, Shanghai
CN

00-08-2C (hex) Homag AG
00082C (base 16) Homag AG
Abt. Ess-Mp., Homag Str. 3-5

DE

00-08-21 (hex) Cisco Systems, Inc
000821 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-08-22 (hex) InPro Comm
000822 (base 16) InPro Comm
11F, No. 93 Shuei-Yuan Street

TW

00-08-1D (hex) Ipsil, Incorporated
00081D (base 16) Ipsil, Incorporated
7945 MacArthur Blvd.
Cabin John MD 20818
US

00-08-76 (hex) SDSystem
000876 (base 16) SDSystem
613,Hyundai I Valley,223-12,
Seongnam Gyeonggi-Do 462-807
KR

00-08-70 (hex) Rasvia Systems, Inc.
000870 (base 16) Rasvia Systems, Inc.
3255-3 Scott Blvd.
Santa Clara CA 95054
US

00-08-6E (hex) Hyglo AB
00086E (base 16) Hyglo AB

Vastberga alle 60

SE

00-08-6C
(hex) Plasmon LMS
00086C (base 16) Plasmon LMS
4425 ArrowsWest Drive
Colorado Springs CO 80907
US

00-08-68 (hex) PurOptix
000868 (base 16) PurOptix
1945 Camino Vida Roble
Carlsbad CA 92008
US

00-08-99 (hex) Netbind, Inc.
000899 (base 16) Netbind, Inc.
5 Marine View Plaza
Hoboken NJ 07030
US

00-08-A0 (hex) Stotz Feinmesstechnik GmbH
0008A0 (base 16) Stotz Feinmesstechnik GmbH
Hermann-Dreher Str. 6
Gerlingen 70839
DE

00-08-91 (hex) Lyan Inc.
000891 (base 16) Lyan Inc.
5F-1, NO.51, SEC.2, KEELUNG RD.
TAIPEI 110
TW

00-08-03 (hex) Cos Tron
000803 (base 16) Cos Tron
4F Boolim B/D, 1431-22,
Anyang 431-061
KR

00-08-05 (hex) Techno-Holon Corporation
000805 (base 16) Techno-Holon Corporation
3-19-2, Takamatsu-cho
Tokyo 190-0011
JP

00-07-FD (hex) LANergy Ltd.

0007FD (base 16) LANergy Ltd.
Rudloe Manor

GB

00-07-FE
(hex) Rigaku Corporation
0007FE (base 16) Rigaku Corporation
3-9-12, Matsubara-cho
Tokyo 196-8666
JP

00-07-E4 (hex) SoftRadio Co., Ltd.
0007E4 (base 16) SoftRadio Co., Ltd.
2F, Dong-Bok B/D 645-18
Seoul
KR

00-07-73 (hex) Ascom Powerline Communications Ltd.
000773 (base 16) Ascom Powerline Communications Ltd.
Belpstr. 37

CH

00-07-6C (hex) Daehanet, Inc.
00076C (base 16) Daehanet, Inc.
#8-2 Chung Jung Rd 2- Ga
Seoul 120-012
KR

00-07-5D (hex) Celleritas Inc.
00075D (base 16) Celleritas Inc.
c/o Celeritas Ltd.

IL

00-07-65 (hex) Jade Quantum Technologies, Inc.
000765 (base 16) Jade Quantum Technologies, Inc.
5F, No. 116, Hsien Fu Rd.,

TW

00-07-54 (hex) Xyterra Computing, Inc.
000754 (base 16) Xyterra Computing, Inc.
14505 Hayden Rd.,
Scottsdale AZ 85260-6953
US

00-07-C7 (hex) Synectics Systems Limited
0007C7 (base
16) Synectics Systems Limited
3 Acorn Business Park
S8 OTB
GB

00-07-BF (hex) Armillaire Technologies, Inc.
0007BF (base 16) Armillaire Technologies, Inc.
10411 Motor City Drive
Bethesda MD 20817
US

00-07-BB (hex) Candera Inc.
0007BB (base 16) Candera Inc.
673 South Milpitas Blvd.
Milpitas CA 95035
US

00-07-BD (hex) Radionet Ltd.
0007BD (base 16) Radionet Ltd.
Keilaranta 6

FI

00-07-C4 (hex) JEAN Co. Ltd.
0007C4 (base 16) JEAN Co. Ltd.
7F, 2, Rei Kuang Road,
Taipei
TW

00-07-D9 (hex) Splicecom
0007D9 (base 16) Splicecom
Little Gillions, The Green
Herts WD3 3HY
GB

00-07-DA (hex) Neuro Telecom Co., Ltd.
0007DA (base 16) Neuro Telecom Co., Ltd.
2F Misung B/D, 938-7
Kyunggi-do
KR

00-07-CD (hex) Kumoh Electronic Co, Ltd
0007CD (base 16) Kumoh Electronic Co, Ltd
154-2 Chunui-dong
Gyeonggi-do
KR

00-07-CF
(hex) Anoto AB
0007CF (base 16) Anoto AB
Solvegatan 41

SE

00-07-D2 (hex) Logopak Systeme GmbH & Co. KG
0007D2 (base 16) Logopak Systeme GmbH & Co. KG
Dorfstraße 40

DE

00-07-C9 (hex) Technol Seven Co., Ltd.
0007C9 (base 16) Technol Seven Co., Ltd.
25-16 Tobehon-cho, Nisi-ku,

JP

00-07-77 (hex) Motah Ltd.
000777 (base 16) Motah Ltd.
4-4-5 Koishikawa
112-0002
JP

00-07-80 (hex) Bluegiga Technologies OY
000780 (base 16) Bluegiga Technologies OY
P.O. BOX 120
FIN-02631 Espoo
FI

00-07-6E (hex) Sinetica Corporation Limited
00076E (base 16) Sinetica Corporation Limited
Willow House
Monmouthshire Usk NP15 1HY
GB

00-07-6F (hex) Synoptics Limited
00076F (base 16) Synoptics Limited
Beacon House, Nuffield Road,

GB

00-07-57 (hex) Topcall International AG
000757 (base 16) Topcall International AG
Talpagasse 1

AT

00-07-4C
(hex) Beicom Inc.
00074C (base 16) Beicom Inc.
114 King Street
Alexandria VA 22314
US

00-07-53 (hex) Beijing Qxcomm Technology Co., Ltd.
000753 (base 16) Beijing Qxcomm Technology Co., Ltd.
4F Tower B, TongTai Building No. 33,
Beijing 100032
CN

00-07-4D (hex) Zebra Technologies Corp.
00074D (base 16) Zebra Technologies Corp.
333 Corporate Woods Parkway
Vernon Hills IL 60061
US

00-07-9C (hex) Golden Electronics Technology Co., Ltd.
00079C (base 16) Golden Electronics Technology Co., Ltd.
No. 29, 21st Road,

TW

00-07-B7 (hex) Samurai Ind. Prods Eletronicos Ltda
0007B7 (base 16) Samurai Ind. Prods Eletronicos Ltda
R-Nebraska, 443 S/2 2o Andar
04560-011
BR

00-07-B0 (hex) Office Details, Inc.
0007B0 (base 16) Office Details, Inc.
25 Ottawa
Grand Rapids MI 49503
US

00-07-A5 (hex) Y.D.K Co. Ltd.
0007A5 (base 16) Y.D.K Co. Ltd.
1705,
Oshitate, Inagi-City,

JP

00-07-C3 (hex) Thomson
0007C3 (base 16) Thomson

5-7, rue Salomon de Rothschild
92150
FR

00-07-B6 (hex) Telecom Technology Ltd.
0007B6 (base 16) Telecom Technology Ltd.
Docklands Innovation Park
Dublin 3
IE

00-07-8E (hex) Garz & Fricke GmbH
00078E (base 16) Garz & Fricke GmbH
Schlachthofstrasse 20
Hamburg Hamburg 21079
DE

00-07-3F (hex) Woojyun Systec Co., Ltd.
00073F (base 16) Woojyun Systec Co., Ltd.
4F Han Yang B/D, Yoido-dong
Seoul 150-010
KR

00-07-28 (hex) Neo Telecom
000728 (base 16) Neo Telecom
East Building 9F, 1T
Songpa-gu, Seoul
KR

00-07-2C (hex) Fabricom
00072C (base 16) Fabricom
Rue Gatti De Gamond 254

BE

00-07-2D (hex) CNSystems
00072D (base 16) CNSystems
Baumkircherstrasse 1

AT

00-07-2F (hex) Intransa, Inc.
00072F (base 16) Intransa, Inc.
2670
Zanker
San Jose CA 95134
US

00-07-32 (hex) AAEON Technology Inc.

000732 (base 16) AAEON Technology Inc.
5F, #135, Lane 235, Pao Chiao Road
Taipei
TW

00-07-25 (hex) Bematech International Corp.
000725 (base 16) Bematech International Corp.
5895 Shiloh Road
Alpharetta GA 30005
US

00-07-23 (hex) ELCON Systemtechnik GmbH
000723 (base 16) ELCON Systemtechnik GmbH
Obere Hauptstraße10

DE

00-07-1D (hex) Satelsa Sistemas Y Aplicaciones De Telecomunicaciones, S.A.
00071D (base 16) Satelsa Sistemas Y Aplicaciones De Telecomunicaciones, S.A.
c/, Alejandro Moran, 56

ES

00-07-20 (hex) Trutzschler GmbH & Co. KG
000720 (base 16) Trutzschler GmbH & Co. KG
Duvenstraße 82-92

DE

00-07-24 (hex) Telemax Co., Ltd.
000724 (base 16) Telemax Co., Ltd.
6th Fl. Sungwoo B/D, 1099-1
Kyungki-Do, 435-040
KR

00-07-1B (hex) CDVI Americas Ltd
00071B (base
16) CDVI Americas Ltd
1637 Autoroute Laval West
Laval Quebec H7L 3W3
CA

00-06-C9 (hex) Technical Marketing Research, Inc.
0006C9 (base 16) Technical Marketing Research, Inc.
Shin Nihon Gijutsu Bldg.
Tokyo 105-0012 105-0012
JP

00-06-C8 (hex) Sumitomo Metal Micro Devices, Inc.
0006C8 (base 16) Sumitomo Metal Micro Devices, Inc.
1, Higashimukojima Higashino-cho

JP

00-06-C0 (hex) United Internetworks, Inc.
0006C0 (base 16) United Internetworks, Inc.
5072 North 300 West, Suite 2N
Provo UT 84604
US

00-06-D7 (hex) Cisco Systems, Inc
0006D7 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-06-D5 (hex) Diamond Systems Corp.
0006D5 (base 16) Diamond Systems Corp.
8430-D Central Ave.
Newark CA 94560
US

00-05-EA (hex) Rednix
0005EA (base 16) Rednix
502, Dong-A Resort Officetel
Taejon 305-709
KR

00-06-E0 (hex) MAT
Co., Ltd.
0006E0 (base 16) MAT Co., Ltd.
864-3 Kwanyang-dong
Kyunggi-do 431-060
KR

00-07-15 (hex) General Research of Electronics, Inc.
000715 (base 16) General Research of Electronics, Inc.
3-12-17, Mita, Minato-ku
Tokyo 108-0073
JP

00-06-FD (hex) Comjet Information Systems Corp.
0006FD (base 16) Comjet Information Systems Corp.
7Fl., No. 103, Fen Liao Street

TW

00-06-F9 (hex) Mitsui Zosen Systems Research Inc.
0006F9 (base 16) Mitsui Zosen Systems Research Inc.
11-1, Uno 1-chome
706-0011
JP

00-06-F1 (hex) Optillion
0006F1 (base 16) Optillion
Kronborgsgr.9

SE

00-07-37 (hex) Soriya Co. Ltd.
000737 (base 16) Soriya Co. Ltd.
2, 8th Floor Hanshin B/O, 136-1,
Seoul,
KR

00-07-34 (hex) ONStor, Inc.
000734 (base 16) ONStor, Inc.
130-B Knowles Drive
Los Gatos CA 95032
US

00-06-A9 (hex) Universal Instruments Corp.
0006A9
(base 16) Universal Instruments Corp.
PO Box 825
Binghamton NY 13902
US

00-06-9E (hex) UNIQA, Inc.
00069E (base 16) UNIQA, Inc.
477 Valley Way
Milpitas CA 95035
US

00-06-98 (hex) egnite GmbH
000698 (base 16) egnite GmbH
Erinstraße 9
Castrop-Rauxel D-44575
DE

00-06-9C (hex) Transmode Systems AB
00069C (base 16) Transmode Systems AB
Jakobsdalsvagen 17
Hägersten SE-126 53

SE

00-06-86 (hex) ZARDCOM Co., Ltd.
000686 (base 16) ZARDCOM Co., Ltd.
4F, 1548-1, Seocho Dong, Seocho-Gu
Seoul
KR

00-06-89 (hex) yLez Technologies Pte Ltd
000689 (base 16) yLez Technologies Pte Ltd
No. 1, Tannery Road, Cencon 1,

SG

00-06-81 (hex) Goepel Electronic GmbH
000681 (base 16) Goepel Electronic GmbH
Goeschwitzer Str. 58-60

DE

00-D0-B9 (hex) MICROTEK INTERNATIONAL, INC.
00D0B9 (base 16) MICROTEK INTERNATIONAL, INC.
NO. 6 INDUSTRY EAST
ROAD 3
TAIWAN 30077 TAIWAN 30077 R.O.C.
TW

00-D0-5F (hex) VALCOM, INC.
00D05F (base 16) VALCOM, INC.
1111 INDUSTRY AVENUE
ROANOKE VA 24013
US

00-06-75 (hex) Banderacom, Inc.
000675 (base 16) Banderacom, Inc.
9211 Waterford Centre Blvd.
Austin TX 78758
US

00-06-7B (hex) Toplink C&C Corporation
00067B (base 16) Toplink C&C Corporation
6F-15, No. 12, Lane 609, Sec. 5
Taipei Hsien 241
TW

00-06-70 (hex) Upponetti Oy
000670 (base 16) Upponetti Oy
Tykistokatu 4D

FI

00-06-49 (hex) 3M Deutschland GmbH
000649 (base 16) 3M Deutschland GmbH
Carl-Schurz-Str. 1
Neuss D-41453
DE

00-06-43 (hex) SONO Computer Co., Ltd.
000643 (base 16) SONO Computer Co., Ltd.
1F., No. 8, Alley 35, Lane 91,
Taipei
TW

00-06-3E (hex) Opthos Inc.
00063E (base 16) Opthos Inc.
590 Taylor Way
San Carlos CA 94070
US

00-06-3B (hex) Arcturus Networks
Inc.
00063B (base 16) Arcturus Networks Inc.
701 Evans Ave. - Suite 300
Toronto Ontario M9C 1A3
CA

00-06-B1 (hex) Sonicwall
0006B1 (base 16) Sonicwall
1160 Bordeaux Dr.
Sunnyvale CA 94089
US

00-06-AD (hex) KB Electronics Ltd.
0006AD (base 16) KB Electronics Ltd.
150 Bluewater Rd.
B4B 1G9
CA

00-06-AF (hex) Xalted Networks
0006AF (base 16) Xalted Networks
2901 Dallas Parkway
Plano TX 75093
US

00-06-A7 (hex) Primarion
0006A7 (base 16) Primarion

3450 Torrance Blvd.
Torrance CA 90503
US

00-06-18 (hex) DigiPower Manufacturing Inc.
000618 (base 16) DigiPower Manufacturing Inc.
No. 114, Floor 13, Sec. 1,
Taipei
TW

00-06-20 (hex) Serial System Ltd.
000620 (base 16) Serial System Ltd.
76 Playfair Road
367996
SG

00-06-17 (hex) Redswitch Inc.
000617 (base 16) Redswitch Inc.
1815 McCandless Drive
Milpitas CA 95035-8046
US

00-06-6F
(hex) Korea Data Systems
00066F (base 16) Korea Data Systems
170, Gongdan-Dong, Gumi-Si
Kyungbuk 730-030
KR

00-06-68 (hex) Vicon Industries Inc.
000668 (base 16) Vicon Industries Inc.
89 Arkay Drive
Hauppauge NY 11788
US

00-06-6D (hex) Compuprint S.P.A.
00066D (base 16) Compuprint S.P.A.
Via Martiri D'Italia 26

IT

00-06-26 (hex) MWE GmbH
000626 (base 16) MWE GmbH
Olbrichtstraße 21

DE

00-06-58 (hex) Helmut Fischer GmbH Institut für Elektronik und Messtechnik

000658 (base 16) Helmut Fischer GmbH Institut für Elektronik und Messtechnik
Industriestraße 21

DE

00-06-13 (hex) Kawasaki Microelectronics Incorporated
000613 (base 16) Kawasaki Microelectronics Incorporated
MTG B-5, 1-3, Nakase,
Mihama-ku Chiba 261-8501
JP

00-05-D3 (hex) eProduction Solutions, Inc.
0005D3 (base 16) eProduction Solutions, Inc.
22001 North
Park Drive
Kingwood TX 77339-3804
US

00-06-04 (hex) @Track Communications, Inc.
000604 (base 16) @Track Communications, Inc.
1155 Kas Dr.
Richardson TX 75081
US

00-06-06 (hex) RapidWAN, Inc.
000606 (base 16) RapidWAN, Inc.
2085 Hamilton Ave.
San Jose CA 95125
US

00-05-96 (hex) Genotech Co., Ltd.
000596 (base 16) Genotech Co., Ltd.
#308 Gunkook Bldg.,
Gumchon-Gu Seoul
KR

00-05-79 (hex) Universal Control Solution Corp.
000579 (base 16) Universal Control Solution Corp.
12843 Foothill Blvd.
Sylmar CA 91342
US

00-05-AE (hex) Mediaport USA
0005AE (base 16) Mediaport USA
17151 Newhope Ave. #202
Fountain Valley CA 92708
US

00-05-B0 (hex) Korea Computer Technology Co., Ltd.
0005B0 (base 16) Korea Computer Technology Co., Ltd.
KCT Bldg, 111-3 Yangjae-Dong,

KR

00-05-B2 (hex) Medison Co., Ltd.
0005B2 (base 16) Medison Co., Ltd.
997-4,
Saechi-Dong,
135-280
KR

00-05-97 (hex) Eagle Traffic Control Systems
000597 (base 16) Eagle Traffic Control Systems
8004 Cameron Road
Austin TX 78754
US

00-05-E1 (hex) Trellis Photonics, Ltd.
0005E1 (base 16) Trellis Photonics, Ltd.
P.O.B. 36

IL

00-05-E2 (hex) Creativ Network Technologies
0005E2 (base 16) Creativ Network Technologies
1755 St. Regis Suite 240
Quebec H9B-2M9
CA

00-05-C8 (hex) VERYTECH
0005C8 (base 16) VERYTECH
#402, Jang Young Shil Kwan,

KR

00-05-CB (hex) ROIS Technologies, Inc.
0005CB (base 16) ROIS Technologies, Inc.
6th F Changhyun B/D, 960-1
431-080
KR

00-06-03 (hex) Baker Hughes Inc.
000603 (base 16) Baker Hughes Inc.
2001 Rankin Rd.
Houston TX 77073
US

00-06-07 (hex) Omni Directional Control Technology Inc.
000607 (base 16) Omni Directional Control Technology Inc.
8F-2, No. 94, Pao-Chung Rd.
Taipei
Hsien,
TW

00-05-F7 (hex) Analog Devices, Inc.
0005F7 (base 16) Analog Devices, Inc.
Three Technology Way
Norwood MA 02062-2666
US

00-05-9C (hex) Kleinknecht GmbH, Ing. Büro
00059C (base 16) Kleinknecht GmbH, Ing. Büro
Bachstraße 30

DE

00-05-A2 (hex) CELOX Networks
0005A2 (base 16) CELOX Networks
940 West Port Plaza - Ste. #300
St. Louis MO 63146
US

00-05-AA (hex) Moore Industries International Inc.
0005AA (base 16) Moore Industries International Inc.
16650 Schoenborn St.
North Hills CA 91343
US

00-05-E7 (hex) Netrake an AudioCodes Company
0005E7 (base 16) Netrake an AudioCodes Company
3000 Technology Drive
Plano TX 75074
US

00-05-F4 (hex) System Base Co., Ltd.
0005F4 (base 16) System Base Co., Ltd.
475-22, BangBae 2 dong,

KR

00-05-B5 (hex) Broadcom Technologies
0005B5 (base 16) Broadcom Technologies
137-060
Secho-Gu

Seoul,
KR

00-05-8C (hex) Opentech Inc.
00058C (base 16) Opentech Inc.
6F, DongWon Bldg., 275
Seoul 137-130
KR

00-05-CD (hex) D&M Holdings Inc.
0005CD (base 16) D&M Holdings Inc.
D&M Building, 2-1 Nisshin-cho
Kawasaki-shi Kanagawa 210-8569
JP

00-05-2E (hex) Cinta Networks
00052E (base 16) Cinta Networks
3010 North First Street
San Jose CA 95134
US

00-05-2F (hex) Leviton Network Solutions
00052F (base 16) Leviton Network Solutions
2222 222nd Street S.E.
Bothell WA 98021
US

00-05-3B (hex) Harbour Networks Ltd., Co. Beijing
00053B (base 16) Harbour Networks Ltd., Co. Beijing
13/F, JiuLing Building, No. 21,
100089
CN

00-05-56 (hex) 360 Systems
000556 (base 16) 360 Systems
31355 Agoura Road
Westlake Village CA 91361
US

00-05-59 (hex) Intracom S.A.
000559 (base 16) Intracom S.A.
19 5 KM Markopoulou Ave.
Attika
GR

00-05-51
(hex) F & S Elektronik Systeme GmbH
000551 (base 16) F & S Elektronik Systeme GmbH

Untere Waldplaetze 23
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DE

00-05-4D (hex) Brans Technologies, Inc.
00054D (base 16) Brans Technologies, Inc.
501 Boramae Academy Tower

KR

00-05-47 (hex) Starent Networks
000547 (base 16) Starent Networks
30 International Place
Tewksbury MA 01876
US

00-05-4E (hex) Philips
00054E (base 16) Philips
1000 West Maude Avenue
Sunnyvale CA 94085-2810
US

00-05-46 (hex) KDDI Network & Solultions Inc.
000546 (base 16) KDDI Network & Solultions Inc.
2-3-1, Nishishinjunku-ku,
Tokyo 163-0907
JP

00-05-40 (hex) FAST Corporation
000540 (base 16) FAST Corporation
2791-5 Shimo-Tsuruma
242-0001
JP

00-05-3C (hex) XIRCOM
00053C (base 16) XIRCOM
2300 CORPORATE CENTER DR.
THOUSAND OAKS CA 91320
US

00-05-44 (hex) Valley Technologies, Inc.
000544
(base 16) Valley Technologies, Inc.
1006 West College Ave.
State College PA 16801
US

00-05-6B (hex) C.P. Technology Co., Ltd.

00056B (base 16) C.P. Technology Co., Ltd.
12F, No. 86, Hsin Tai Wu Rd.,
221
TW

00-05-60 (hex) LEADER COMM.CO., LTD
000560 (base 16) LEADER COMM.CO., LTD
234, Komae-ri, Kiheung-eup,
449-900
KR

00-05-5E (hex) Cisco Systems, Inc
00055E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-05-7F (hex) Acqis Technology
00057F (base 16) Acqis Technology
1621 West El Camino Real
Mt. View CA 94040
US

00-05-73 (hex) Cisco Systems, Inc
000573 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-05-75 (hex) CDS-Electronics BV
000575 (base 16) CDS-Electronics BV
Mozart laan 330

NL

00-05-22 (hex) LEA*D Corporation, Inc.
000522 (base 16) LEA*D Corporation, Inc.
Advatech
Bldg.

IL

00-05-20 (hex) Smartronix, Inc.
000520 (base 16) Smartronix, Inc.
22685 Three Notch Rd.
California MD 20619
US

00-05-18 (hex) Jupiters Technology
000518 (base 16) Jupiters Technology
PO Box 12693

AU

00-05-0B (hex) SICOM Systems, Inc.
00050B (base 16) SICOM Systems, Inc.
4140 Skyron Drive
Doylestown PA 18901
US

00-05-05 (hex) Systems Integration Solutions, Inc.
000505 (base 16) Systems Integration Solutions, Inc.
3922 Coconut Palm Drive,
Tampa FL 33619
US

00-05-28 (hex) New Focus, Inc.
000528 (base 16) New Focus, Inc.
2630 Walsh Ave.
Santa Clara CA 95051
US

00-05-24 (hex) BTL System (HK) Limited
000524 (base 16) BTL System (HK) Limited
14/F., Blk. B, Vita Tower,
Aberdeen
HK

00-05-14 (hex) KDT Systems Co., Ltd.
000514 (base 16) KDT Systems Co., Ltd.
102-6, Chobu-Li, Mohyun-Myun,

KR

00-04-C4
(hex) Audiotonix Group Limited
0004C4 (base 16) Audiotonix Group Limited
Unit 10, Silverglade Business Park
Chessington Surrey KT9 2QL
GB

00-04-B7 (hex) AMB i.t. Holding
0004B7 (base 16) AMB i.t. Holding
Zuiderhoutlaan 4
PJ Haarlem 2012
NL

00-04-B9 (hex) S.I. Soubou, Inc.
0004B9 (base 16) S.I. Soubou, Inc.
4-2586-8
Tokorozawa Sitama 359-0047
JP

00-04-BB (hex) Bardac Corporation
0004BB (base 16) Bardac Corporation
40 Log Canoe Circle
Stevensville MD 21666
US

00-04-BC (hex) Giantec, Inc.
0004BC (base 16) Giantec, Inc.
4F, No. 3, Lane 123,
TAIWAN 231 TAIWAN 231 R.O.C.
TW

00-04-AF (hex) Digital Fountain, Inc.
0004AF (base 16) Digital Fountain, Inc.
600 Alabama St.
San Francisco CA 94110
US

00-04-9D (hex) Ipanema Technologies
00049D (base 16) Ipanema Technologies
28, Rue De La Redoute

FR

00-04-60 (hex) Knilink Technology,
Inc.
000460 (base 16) Knilink Technology, Inc.
10F, #96, Hsin Tai Wu Rd.,
TAIWAN
TW

00-04-8F (hex) TD Systems Corporation
00048F (base 16) TD Systems Corporation
100 Bearfoot Rd.
Hudson MA 01749
US

00-04-95 (hex) Tejas Networks India Limited
000495 (base 16) Tejas Networks India Limited
#58, 1st Main Road, J.P. Nagar,
Bangalore 560078

IN

00-04-D9 (hex) Titan Electronics, Inc.
0004D9 (base 16) Titan Electronics, Inc.
Rm 7, 11 Fl., No. 398,
Taoyuan Taoyuan TAIWAN
TW

00-04-D8 (hex) IPWireless, Inc.
0004D8 (base 16) IPWireless, Inc.
4 Landsowne Court
SN14 GRZ UK
GB

00-04-D6 (hex) Takagi Industrial Co., Ltd.
0004D6 (base 16) Takagi Industrial Co., Ltd.
Electronic Instrument Div.
418-0103 418-0103
JP

00-04-D1 (hex) Drew Technologies, Inc.
0004D1 (base 16) Drew Technologies, Inc.
3915 Research Park Dr
Ann Arbor MI 48108
US

00-04-B2
(hex) ESSEGI SRL
0004B2 (base 16) ESSEGI SRL
Via Del Cavaratori, 17

IT

00-04-B4 (hex) CIAC
0004B4 (base 16) CIAC
18 rue Joseph BARA

FR

00-04-A9 (hex) SandStream Technologies, Inc.
0004A9 (base 16) SandStream Technologies, Inc.
1955 Lakeway Dr.
Lewisville TX 75057
US

00-04-9C (hex) Surgient Networks, Inc.
00049C (base 16) Surgient Networks, Inc.
3520 Executive Center Drive

Austin TX 78731
US

00-04-EB (hex) Paxonet Communications, Inc.
0004EB (base 16) Paxonet Communications, Inc.
4046 Clipper Court
Fremont CA 94538
US

00-04-EF (hex) Polestar Corp.
0004EF (base 16) Polestar Corp.
RM #802 SeoGeon B/D, 1480,
Korea (ROK)
KR

00-80-87 (hex) OKI ELECTRIC INDUSTRY CO., LTD
008087 (base 16) OKI ELECTRIC INDUSTRY CO., LTD
10-3 SHIBAURA 4-CHOME

JP

00-04-D0 (hex) Softlink s.r.o.
0004D0 (base 16) Softlink s.r.o.
Tomkova
409
Czech Republic
CZ

00-04-BE (hex) OptXCon, Inc.
0004BE (base 16) OptXCon, Inc.
P.O. Box 13449
Research Triangle Park NC 27709-3449
US

00-04-C1 (hex) Cisco Systems, Inc
0004C1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-04-6F (hex) Digitel S/A Industria Eletronica
00046F (base 16) Digitel S/A Industria Eletronica
R. Doutor Joao Ignacio, 1165
Zip: 90230.181
BR

00-04-69 (hex) Innocom, Inc.
000469 (base 16) Innocom, Inc.

655-2 Naebalsan-Dong
157-280 157-280 KOREA
KR

00-04-87 (hex) Cogency Semiconductor, Inc.
000487 (base 16) Cogency Semiconductor, Inc.
362 Terry Fox Drive, Suite 210

CA

00-04-68 (hex) Vivity, Inc.
000468 (base 16) Vivity, Inc.
3360 Mitchell Lane
Boulder CO 80301
US

00-04-FE (hex) Pelago Networks
0004FE (base 16) Pelago Networks
701 E. Plano Parkway - Ste. #205
Plano TX
75074
US

00-03-E1 (hex) Winmate Communication, Inc.
0003E1 (base 16) Winmate Communication, Inc.
9F,No.111-6,Shing-De Rd
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TW

00-03-E4 (hex) Cisco Systems, Inc
0003E4 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-03-DC (hex) Lexar Media, Inc.
0003DC (base 16) Lexar Media, Inc.
47421 Bayside Parkway
Fremont CA 94538
US

00-03-D8 (hex) iMPath Networks, Inc.
0003D8 (base 16) iMPath Networks, Inc.
1431 Merivale Rd.
CANADA K2E 1B9
CA

00-03-D5 (hex) Advanced Communications Co., Ltd.

0003D5 (base 16) Advanced Communications Co., Ltd.
2876-1 Ooka
Shizuoka 41-0022
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00-03-D6 (hex) RADVision, Ltd.
0003D6 (base 16) RADVision, Ltd.
24 Raul Wallenberg St.

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00-03-D4 (hex) Alloptic, Inc.
0003D4 (base 16) Alloptic, Inc.
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Pleasanton CA 94566
US

00-04-61 (hex) EPOX Computer
Co., Ltd.
000461 (base 16) EPOX Computer Co., Ltd.
11F, #346, Chung San Rd.
TAIWAN TAIWAN R.O.C.
TW

00-04-62 (hex) DAKOS Data & Communication Co., Ltd.
000462 (base 16) DAKOS Data & Communication Co., Ltd.
2nd Floor Bethel Building 324-1
Zip code: 137-130
TW

00-04-5F (hex) Avalue Technology, Inc.
00045F (base 16) Avalue Technology, Inc.
7F, 228, Lian-Cheng Road
TAIWAN TAIWAN R.O.C.
TW

00-04-56 (hex) Cambium Networks Limited
000456 (base 16) Cambium Networks Limited
Unit B2, Linhay Business Park,
Ashburton Devon TQ13 7UP
GB

00-04-58 (hex) Fusion X Co., Ltd.
000458 (base 16) Fusion X Co., Ltd.
#905 Hansol Techno Town
Zip 435-030
KR

00-04-46 (hex) CYZENTECH Co., Ltd.
000446 (base 16) CYZENTECH Co., Ltd.
601 Eunkyeong B/D 141-31,
135-876 KOREA
KR

00-04-4A (hex) iPolicy Networks, Inc.
00044A (base 16) iPolicy Networks, Inc.
47467 Fremont
Blvd.
Fremont CA 94538
US

00-04-40 (hex) cyberPIXIE, Inc.
000440 (base 16) cyberPIXIE, Inc.
68 E. Wacker Place,
Chicago IL 60601
US

00-04-3C (hex) SONOS Co., Ltd.
00043C (base 16) SONOS Co., Ltd.
#725 Pungsan Apt. Factory
Rep. of KOREA Zip Code: 411-815
KR

00-04-2C (hex) Minet, Inc.
00042C (base 16) Minet, Inc.
3F Se-A Venture Tower
KOREA
KR

00-04-2A (hex) Wireless Networks, Inc.
00042A (base 16) Wireless Networks, Inc.
2322 El Camino Real
San Mateo CA 94403
US

00-04-19 (hex) Fibercycle Networks, Inc.
000419 (base 16) Fibercycle Networks, Inc.
20 South Santa Cruz Ave.
Los Gatos CA 95030
US

00-04-1C (hex) ipDialog, Inc.
00041C (base 16) ipDialog, Inc.
1762 Technology Drive
San Jose CA 95110
US

00-03-CE (hex) ETEN Technologies, Inc.
0003CE (base 16) ETEN Technologies, Inc.
2F, No. 9, Lane 235, Pao-Chiao Rd.,
TAIWAN TAIWAN
R.O.C.
TW

00-03-C8 (hex) CML Emergency Services
0003C8 (base 16) CML Emergency Services
75 Boulevard la Technologies

CA

00-03-F1 (hex) Cicada Semiconductor, Inc.
0003F1 (base 16) Cicada Semiconductor, Inc.
811 Barton Springs Rd.
Austin TX 78704
US

00-03-ED (hex) Shinkawa Electric Co., Ltd.
0003ED (base 16) Shinkawa Electric Co., Ltd.
3-2-24 3 chome

JP

00-04-18 (hex) Teltronic S.A.U.
000418 (base 16) Teltronic S.A.U.
Poligono de Malpica

ES

00-03-70 (hex) NXTV, Inc.
000370 (base 16) NXTV, Inc.
5955 De Soto Ave, #160
Woodland Hills CA 91367
US

00-04-02 (hex) Nexsan Technologies, Ltd.
000402 (base 16) Nexsan Technologies, Ltd.
Parker Centre
Derby DE21 4SZ
GB

00-03-F7 (hex) Plast-Control GmbH
0003F7 (base 16) Plast-Control GmbH
Walter-Freitag-Str. 15

DE

00-03-FC (hex) Intertex Data AB
0003FC (base 16) Intertex
Data AB
Rissneleden 45

SE

00-03-EF (hex) Oneline AG
0003EF (base 16) Oneline AG
Steinfeldstraße 3

DE

00-04-4F (hex) Schubert System Elektronik Gmbh
00044F (base 16) Schubert System Elektronik Gmbh
Rudolf-Diesel-Str. 17

DE

00-03-55 (hex) TeraBeam Internet Systems
000355 (base 16) TeraBeam Internet Systems
14833 NE 87th St., Bldg. C
Redmond WA 98052
US

00-03-54 (hex) Fiber Logic Communications
000354 (base 16) Fiber Logic Communications
5F-3, No. 9, Prosperity Road One,
Hsinchu
TW

00-03-50 (hex) BTICINO SPA
000350 (base 16) BTICINO SPA
Via L. Manara, 4

IT

00-03-4E (hex) Pos Data Company, Ltd.
00034E (base 16) Pos Data Company, Ltd.
276-2, Seo-Hyun Dong,

KR

00-03-48 (hex) Norscan Instruments, Ltd.
000348 (base 16) Norscan Instruments, Ltd.
7 Terracon Place

R2J 4B3
CA

00-03-46 (hex) Hitachi
Kokusai Electric, Inc.
000346 (base 16) Hitachi Kokusai Electric, Inc.
1-6-10 Uchikanda

JP

00-03-44 (hex) Tietech.Co., Ltd.
000344 (base 16) Tietech.Co., Ltd.
2-13-1 Chikamatoori Minamiku

JP

00-03-43 (hex) Martin Professional A/S
000343 (base 16) Martin Professional A/S
Olof Palmes Alle 18

DK

00-03-C3 (hex) Micronik Multimedia
0003C3 (base 16) Micronik Multimedia
Brückenstraße 2

DE

00-03-C0 (hex) RFTNC Co., Ltd.
0003C0 (base 16) RFTNC Co., Ltd.
3F, 1624-24, Bongchen-dong
SOUTH KOREA
KR

00-03-BD (hex) OmniCluster Technologies, Inc.
0003BD (base 16) OmniCluster Technologies, Inc.
4950 Blue Lake Drive
Boca Raton FL 33431
US

00-03-B8 (hex) NetKit Solutions, LLC
0003B8 (base 16) NetKit Solutions, LLC
26630 Agoura Road
Calabasas CA 91302
US

00-03-B7 (hex) ZACCESS Systems
0003B7 (base 16) ZACCESS Systems

275 Shoreline
Drive, #110
Redwood City CA 94065
US

00-03-B0 (hex) Xsense Technology Corp.
0003B0 (base 16) Xsense Technology Corp.
11 F, 232, Sec. 3, ChengTeh Rd.
Taipei TAIWAN, 103
TW

00-03-AA (hex) Watlow
0003AA (base 16) Watlow
1241 Bundy Blvd.
Winona MN 55987
US

00-03-A8 (hex) IDOT Computers, Inc.
0003A8 (base 16) IDOT Computers, Inc.
3F., No. 137, Lane 235
TAIWAN TAIWAN R.O.C.
TW

00-03-A0 (hex) Cisco Systems, Inc
0003A0 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-03-A2 (hex) Catapult Communications
0003A2 (base 16) Catapult Communications
160 S. Whisman Rd.
Mountain View CA 94041
US

00-03-9C (hex) OptiMight Communications, Inc.
00039C (base 16) OptiMight Communications, Inc.
980 Linda Vista Avenue
Mountain View CA 94043
US

00-03-65 (hex) Kira Information & Communications, Ltd.
000365 (base 16) Kira Information
& Communications, Ltd.
6th Fl. Anam Tower,

KR

00-03-35 (hex) Mirae Technology
000335 (base 16) Mirae Technology
211-15, Hon Hyun-dong,
Seoul
KR

00-03-36 (hex) Zetes Technologies
000336 (base 16) Zetes Technologies
3 Rue De Stras Bourg

BE

00-03-37 (hex) Vaone, Inc.
000337 (base 16) Vaone, Inc.
6F Kyemong Art Center,
135-082
KR

00-03-69 (hex) Nippon Antenna Co., Ltd.
000369 (base 16) Nippon Antenna Co., Ltd.
No. 49-8, Nishiogu,
Tokyo 116-8561
JP

00-03-73 (hex) Aselsan A.S
000373 (base 16) Aselsan A.S
Mehmet Akif Ersoy Mah.

TR

00-03-77 (hex) Gigabit Wireless
000377 (base 16) Gigabit Wireless
3099 N. First Street
San Jose CA 95134
US

00-03-85 (hex) Actelis Networks, Inc.
000385 (base 16) Actelis Networks, Inc.
1 Bazel St., P.O.B. 10173

IL

00-02-E6 (hex) Gould Instrument Systems, Inc.
0002E6
(base 16) Gould Instrument Systems, Inc.
8333 Rockside Road
Valley View OH 44125
US

00-02-E4 (hex) JC HYUN Systems, Inc.
0002E4 (base 16) JC HYUN Systems, Inc.
Shinbong Bldg, 736-6,
Seoul (135-080)
KR

00-02-DE (hex) Astrodesign, Inc.
0002DE (base 16) Astrodesign, Inc.
2-22-12 Kamikodana Ka
Kanagawa
JP

00-02-E2 (hex) NDC Infared Engineering
0002E2 (base 16) NDC Infared Engineering
5314 N. Irwindale Ave.
Irwindale CA 91706
US

00-02-DC (hex) Fujitsu General Limited
0002DC (base 16) Fujitsu General Limited
1116, Suenaga, Takatsu-Ku,
213-8502
JP

00-02-E1 (hex) Integrated Network Corporation
0002E1 (base 16) Integrated Network Corporation
757 Route 202/206
Bridgewater NJ 08807
US

00-02-D7 (hex) EMPEG Ltd
0002D7 (base 16) EMPEG Ltd
1 Signet Court
CB5 8LA
GB

00-02-F8 (hex) SEAKR Engineering, Inc.
0002F8 (base 16) SEAKR Engineering,
Inc.
12847 E. Peakview Ave.
Englewood CO 80111
US

00-02-F7 (hex) ARM
0002F7 (base 16) ARM
110, Fulbourn Road
CB1 9NJ

GB

00-D0-24 (hex) Cognex Corporation
00D024 (base 16) Cognex Corporation
Modular Vision Systems Division
Portland OR 97224
US

00-02-F1 (hex) Pinetron Co., Ltd.
0002F1 (base 16) Pinetron Co., Ltd.
Bldg. #1599-11,
Seoul 137-073
KR

00-02-ED (hex) DXO Telecom Co., Ltd.
0002ED (base 16) DXO Telecom Co., Ltd.
8F, 300-11, Yumgok-Dong,

KR

00-02-EC (hex) Maschoff Design Engineering
0002EC (base 16) Maschoff Design Engineering
1325 Kenilworth Drive
Woodbury MN 55125
US

00-02-99 (hex) Apex, Inc.
000299 (base 16) Apex, Inc.
9911 Willows Rd. N.E.
Redmond WA 95052
US

00-02-98 (hex) Broadframe Corporation
000298 (base 16) Broadframe Corporation
5828 Moonstone Ave.
Alta Loma CA 91701
US

00-02-97
(hex) C-COR.net
000297 (base 16) C-COR.net
60 Decibel Road
State College PA 16801
US

00-02-91 (hex) Open Network Co., Ltd.
000291 (base 16) Open Network Co., Ltd.
Seishin Bldg., 2-5-10 Shinjuku

JAPAN 160-0022
JP

00-02-C6 (hex) Data Track Technology PLC
0002C6 (base 16) Data Track Technology PLC
153 Somerford Road
UNITED KINGDOM
GB

00-02-C1 (hex) Innovative Electronic Designs, Inc.
0002C1 (base 16) Innovative Electronic Designs, Inc.
9701 Taylorsville Rd.
Louisville KY 40299
US

00-02-C0 (hex) Bencent Tzeng Industry Co., Ltd.
0002C0 (base 16) Bencent Tzeng Industry Co., Ltd.
3rd fl., No. 3 Ruey Kuang Rd.,
Taiwan Taiwan R.O.C.
TW

00-02-D3 (hex) NetBotz, Inc.
0002D3 (base 16) NetBotz, Inc.
110044 Research Blvd.
Austin TX 78759
US

00-02-DA (hex) ExiO Communications, Inc.
0002DA (base 16) ExiO Communications, Inc.
2362 Qume Drive
San Jose
CA 95131
US

00-02-D4 (hex) PDA Peripherals, Inc.
0002D4 (base 16) PDA Peripherals, Inc.
205 Orange St.
New Haven CT 06510
US

00-02-D6 (hex) NICE Systems
0002D6 (base 16) NICE Systems
8 Hapnina St., POB 690

IL

00-02-8B (hex) VDSL Systems OY
00028B (base 16) VDSL Systems OY

Tekniikantie 12

FI

00-02-8C (hex) Micrel-Synergy Semiconductor
00028C (base 16) Micrel-Synergy Semiconductor
3250 Scott Boulevard
Santa Clara CA 95054
US

00-02-8D (hex) Movita Technologies, Inc.
00028D (base 16) Movita Technologies, Inc.
No. 26 Wu-Chuan 7th Road,
Taipei Taiwan, R.O.C.
TW

00-B0-52 (hex) Atheros Communications
00B052 (base 16) Atheros Communications
5955 T.G. Lee Blvd, Ste. 600
Ocala FL 32822
US

00-03-14 (hex) Teleware Network Systems
000314 (base 16) Teleware Network Systems
#7806 7th Dongil Technotown,
431-062
KR

00-03-3B (hex) TAMI
Tech Co., Ltd.
00033B (base 16) TAMI Tech Co., Ltd.
4F, Chungdo Bencher Town
Taejon
KR

00-03-2D (hex) IBASE Technology, Inc.
00032D (base 16) IBASE Technology, Inc.
5F, No. 221,
Taipei
TW

00-03-2F (hex) Global Sun Technology, Inc.
00032F (base 16) Global Sun Technology, Inc.
No. 13, Tung Yuan Rd.,

TW

00-02-A6 (hex) Effinet Systems Co., Ltd.

0002A6 (base 16) Effinet Systems Co., Ltd.
Yugong Bldg. 502
Korea
KR

00-02-5C (hex) SCI Systems (Kunshan) Co., Ltd.
00025C (base 16) SCI Systems (Kunshan) Co., Ltd.
312 QING YANG ROAD
CHINA CHINA 215300
CN

00-00-87 (hex) HITACHI, LTD.
000087 (base 16) HITACHI, LTD.
NETWORK ENGINEERING DIV.
TOKYO 140
JP

00-02-58 (hex) Flying Packets Communications
000258 (base 16) Flying Packets Communications
388 Market Street
San Francisco CA 94111
US

00-02-55 (hex) IBM Corp
000255 (base
16) IBM Corp
3039 E Cornwallis Road
Research Triangle Park NC 27709-2195
US

00-02-52 (hex) Carrier Corporation
000252 (base 16) Carrier Corporation
One Carrier Place
Farmington CT 06034-4015
US

00-02-07 (hex) VisionGlobal Network Corp.
000207 (base 16) VisionGlobal Network Corp.
826 E. Stale Road
American Fork UT 84003
US

00-02-08 (hex) Unify Networks, Inc.
000208 (base 16) Unify Networks, Inc.
3160 De La Cruz Blvd.
Santa Clara CA 95054
US

00-02-04 (hex) Bodmann Industries Elektronik GmbH
000204 (base 16) Bodmann Industries Elektronik GmbH
Messerschmittring 33

DE

00-02-0D (hex) Micronpc.com
00020D (base 16) Micronpc.com
900 E. Karcher Rd.
Nampa IA 83687
US

00-02-11 (hex) Nature Worldwide Technology Corp.
000211 (base 16) Nature Worldwide Technology Corp.
No. 1, Min-Chuan Street
Taiwan Taiwan R.O.C.
TW

00-02-12 (hex) SierraCom
000212
(base 16) SierraCom
99 South Street
Hopkinton Ma 01748
US

00-02-17 (hex) Cisco Systems, Inc
000217 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-02-2D (hex) Agere Systems
00022D (base 16) Agere Systems
P.O. Box 755

NL

00-02-26 (hex) XESystems, Inc.
000226 (base 16) XESystems, Inc.
317 Main Street
East Rochester NY 14445
US

00-02-25 (hex) One Stop Systems
000225 (base 16) One Stop Systems
2235 Enterprise Street
Escondido CA 92029
US

00-02-20 (hex) CANON FINETECH INC.
000220 (base 16) CANON FINETECH INC.
717, Yaguchi, Misato-shi,
Saitama 341-8527
JP

00-02-4E (hex) Datacard Group
00024E (base 16) Datacard Group
11111 Bren Road West
Minnetonka MN 55343
US

00-02-42 (hex) Videoframe Systems
000242 (base 16) Videoframe Systems
101 Providence Mine Road
Nevada City CA 95959
US

00-02-44
(hex) SURECOM Technology Co.
000244 (base 16) SURECOM Technology Co.
6F, No. 125, Sec. 2, Datung Rd.
Taiwan Taiwan R.O.C.
TW

00-02-3E (hex) Selta Telematica S.p.a
00023E (base 16) Selta Telematica S.p.a
Via Nazionale km 404.5

IT

00-02-41 (hex) Amer.com
000241 (base 16) Amer.com
7259 Bryan Dairy Road
Largo FL 33777
US

00-02-7D (hex) Cisco Systems, Inc
00027D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-02-7C (hex) Trilithic, Inc.
00027C (base 16) Trilithic, Inc.
9202 E. 33rd Street
Indianapolis IN 46235

US

00-02-75 (hex) SMART Technologies, Inc.
000275 (base 16) SMART Technologies, Inc.
3636 Research Road NW
Calgary, Alberta T2L1Y1
CA

00-01-F9 (hex) TeraGlobal Communications Corp.
0001F9 (base 16) TeraGlobal Communications Corp.
9171 Towne Centre Drive
San Diego CA 92122
US

00-01-FB
(hex) DoTop Technology, Inc.
0001FB (base 16) DoTop Technology, Inc.
10F, No. 100, Min-Chyuan Road
TAIWAN
TW

00-01-F8 (hex) TEXIO TECHNOLOGY CORPORATION
0001F8 (base 16) TEXIO TECHNOLOGY CORPORATION
2-18-13 Shin Yokohama,
222-0033
JP

00-01-E8 (hex) Force10 Networks, Inc.
0001E8 (base 16) Force10 Networks, Inc.
1440 McCarthy Blvd.
Milpitas CA 95035
US

00-01-7A (hex) Chengdu Maipu Electric Industrial Co., Ltd.
00017A (base 16) Chengdu Maipu Electric Industrial Co., Ltd.
NANYI BUILDING, CONSULATE RD.,
P.R.
CN

00-02-38 (hex) Serome Technology, Inc.
000238 (base 16) Serome Technology, Inc.
555-14, Baekang B/D 7F
Seoul Korea 135-120
KR

00-02-29 (hex) Adtec Corporation
000229 (base 16) Adtec Corporation
3F Megurohigashiyama Blg

JP

00-02-69 (hex) Nadatel Co., Ltd
000269 (base 16) Nadatel Co., Ltd
9F CoWell Bldg, 66-1 Banpo-Dong
KOREA
137-040
KR

00-02-64 (hex) AudioRamp.com
000264 (base 16) AudioRamp.com
15941 Red Hill Suite 205
Tustin CA 92780
US

00-02-5F (hex) Nortel Networks
00025F (base 16) Nortel Networks
9300 trans-CANADA Highway
H4S 1KS
CA

00-01-E9 (hex) Litton Marine Systems B.V.
0001E9 (base 16) Litton Marine Systems B.V.
118 Burlington Road
ENGLAND KT3 4NR
GB

00-01-E5 (hex) Supernet, Inc.
0001E5 (base 16) Supernet, Inc.
135-080 Daemeong Bldg.
KOREA
KR

00-01-D4 (hex) Leisure Time, Inc.
0001D4 (base 16) Leisure Time, Inc.
4258 Communications Drive
Norcross GA 30093
US

00-01-DD (hex) Avail Networks
0001DD (base 16) Avail Networks
305 E. Eisenhower Parkway
Ann Arbor MI 48108
US

00-01-D5 (hex) HAEDONG INFO & COMM CO., LTD
0001D5 (base 16) HAEDONG INFO & COMM CO., LTD

#801 The Corporation Center for Universi
Taejeon Republic of Korea 305
KR

00-01-D7
(hex) F5 Networks, Inc.
0001D7 (base 16) F5 Networks, Inc.
1322 N. Whitman Lane
Liberty Lake WA 99019
US

00-01-DE (hex) Trango Systems, Inc.
0001DE (base 16) Trango Systems, Inc.
9939 V/A Pasar
San Diego CA 92126
US

00-01-DC (hex) Activetelco
0001DC (base 16) Activetelco
43222 Christy Street
Fremont CA 94538
US

00-01-0A (hex) CIS TECHNOLOGY INC.
00010A (base 16) CIS TECHNOLOGY INC.
16F, No. 75 Hsin Tai Wu Road
Taipei Hsien 221
TW

00-01-62 (hex) Cygnet Technologies, Inc.
000162 (base 16) Cygnet Technologies, Inc.
1411 LeMay Drive #301
Carrollton TX 75007
US

00-01-67 (hex) HIOKI E.E. CORPORATION
000167 (base 16) HIOKI E.E. CORPORATION
81 Koizumi, Ueda, Nagano
386-1192 386-1192
JP

00-01-68 (hex) VITANA CORPORATION
000168 (base 16) VITANA CORPORATION
2500 Don Reid Drive
K1H 1E1 K1H 1E1
CA

00-01-5F (hex) DIGITAL DESIGN

GmbH
00015F (base 16) DIGITAL DESIGN GmbH
Rauchstr. 21
Berlin D-10787
DE

00-01-64 (hex) Cisco Systems, Inc
000164 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-01-BF (hex) Teleforce Co., Ltd.
0001BF (base 16) Teleforce Co., Ltd.
721 yoshioka-cho kanonji-city

JP

00-01-B4 (hex) Wayport, Inc.
0001B4 (base 16) Wayport, Inc.
1609 Shoal Creek Blvd.
Austin TX 78701
US

00-01-BA (hex) IC-Net, Inc.
0001BA (base 16) IC-Net, Inc.
5 Fl. Seasung Bldg., 311-27 Noryangjin-D
KOREA
KR

00-01-B0 (hex) Fulltek Technology Co., Ltd.
0001B0 (base 16) Fulltek Technology Co., Ltd.
3F No. 8, Lane 130, Min Chuan Rd., Hsint
TAIWAN R.O.C.
TW

00-01-A9 (hex) BMW AG
0001A9 (base 16) BMW AG
Dept. FG-322
80788 Munich
DE

00-01-AA (hex) Airspan Communications, Ltd.
0001AA (base 16) Airspan Communications, Ltd.
Cambridge
House, Oxford Rd.,

GB

00-01-CF (hex) Alpha Data Parallel Systems, Ltd.
0001CF (base 16) Alpha Data Parallel Systems, Ltd.
58 Timber Bush
UNITED KINGDOM
GB

00-01-D0 (hex) VitalPoint, Inc.
0001D0 (base 16) VitalPoint, Inc.
15770 Hopper Road
Peyton CO 80831
US

00-01-C7 (hex) Cisco Systems, Inc
0001C7 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-01-54 (hex) G3M Corporation
000154 (base 16) G3M Corporation
4320 Stevens Creek Blvd. - Ste. #275
San Jose CA 95129
US

00-01-52 (hex) CHROMATEK INC.
000152 (base 16) CHROMATEK INC.
6-10, Miyazaki 2-Chome

JP

00-01-50 (hex) GILAT COMMUNICATIONS, LTD.
000150 (base 16) GILAT COMMUNICATIONS, LTD.
21/D Yegia Kapayim Street

IL

00-01-51 (hex) Ensemble Communications
000151 (base 16) Ensemble Communications
6256 Greenman Drive - Ste. #400
San Diego CA 92122
US

00-01-9E
(hex) ESS Technology, Inc.
00019E (base 16) ESS Technology, Inc.
48401 Fremont Blvd.
Fremont CA 94538

US

00-01-7D (hex) ThermoQuest
00017D (base 16) ThermoQuest
355 River Oaks Parkway
San Jose CA 95134
US

00-01-81 (hex) Nortel Networks
000181 (base 16) Nortel Networks
1100 Technology Park Drive
Billerica MA 01821
US

00-01-94 (hex) Capital Equipment Corporation
000194 (base 16) Capital Equipment Corporation
900 Middlesex Turnpike - Bldg. 2
Billerica MA 01821
US

00-01-98 (hex) Darim Vision
000198 (base 16) Darim Vision
Taejon Expo Venture Town
KOREA
KR

00-01-BE (hex) Gigalink Co., Ltd.
0001BE (base 16) Gigalink Co., Ltd.
6th F/L Diplomatic Center 1376-1
KOREA
KR

00-01-B1 (hex) General Bandwidth
0001B1 (base 16) General Bandwidth
12303-B Technology Blvd.
Austin TX 78727
US

00-01-85 (hex) Hitachi Aloka Medical,
Ltd.
000185 (base 16) Hitachi Aloka Medical, Ltd.
3-7-19, Imai Ome-city
198-8577
JP

00-01-A2 (hex) Logical Co., Ltd.
0001A2 (base 16) Logical Co., Ltd.
4598 Murakushi-cho

431-1207
JP

00-B0-2D (hex) ViaGate Technologies, Inc.
00B02D (base 16) ViaGate Technologies, Inc.
745 Route 202/206
Bridgewater NJ 08807
US

00-30-EE (hex) DSG Technology, Inc.
0030EE (base 16) DSG Technology, Inc.
6F-4 No. 270, Chwig Hsiao
Taipei
TW

00-30-9E (hex) WORKBIT CORPORATION.
00309E (base 16) WORKBIT CORPORATION.
1-2-2 Chuou, Yamato
Kanagawa 242-0021
JP

00-30-DE (hex) WAGO Kontakttechnik GmbH
0030DE (base 16) WAGO Kontakttechnik GmbH
Hansastrasse 27
32423 Minden
DE

00-30-3E (hex) Radcom Ltd.
00303E (base 16) Radcom Ltd.
12 Hanechoshet Street
Tel-Aviv 69710
IL

00-30-D7 (hex) Innovative Systems, L.L.C.
0030D7 (base 16) Innovative
Systems, L.L.C.
1000 Innovative Drive
Mitchell SD 57301
US

00-30-7B (hex) Cisco Systems, Inc
00307B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-30-88 (hex) Ericsson
003088 (base 16) Ericsson

250 Holger Way
SAN JOSE CA 95134
US

00-30-B5 (hex) Tadiran Microwave Networks
0030B5 (base 16) Tadiran Microwave Networks
4000 Greenbriar Drive
Stafford TX 77477
US

00-30-20 (hex) TSI, Inc..
003020 (base 16) TSI, Inc..
500 Cardigan Road
Shoreview MN 55126
US

00-B0-4A (hex) Cisco Systems, Inc
00B04A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-B0-48 (hex) Marconi Communications Inc.
00B048 (base 16) Marconi Communications Inc.
8616 Freeport Parkway
Irving TX 75063
US

00-B0-CE (hex) Viveris Technologies
00B0CE (base 16) Viveris Technologies
1 rue Traversiere BP 20327
Rungis
Cedex 94598
FR

00-B0-1C (hex) Westport Technologies
00B01C (base 16) Westport Technologies
15 Capella Court, Unit 116
Nepean Ontario
CA

00-01-19 (hex) RTUnet (Australia)
000119 (base 16) RTUnet (Australia)
8/3-5 Gilda Court
Mulgrave Vic 3170
AU

00-01-22 (hex) Trend Communications, Ltd.

000122 (base 16) Trend Communications, Ltd.
Knaves Beech Estate
Bucks, HP10 9QZ
GB

00-01-1A (hex) Hoffmann und Burmeister GbR
00011A (base 16) Hoffmann und Burmeister GbR
Niederberger Str. 75
D-53909 Zuelpich
DE

00-01-24 (hex) Acer Incorporated
000124 (base 16) Acer Incorporated
21F, 88, Sec.1
Taipei Hsien 221
TW

00-01-42 (hex) Cisco Systems, Inc
000142 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-01-2C (hex) Aravox Technologies, Inc.
00012C (base 16) Aravox Technologies, Inc.
16725 40th Place North
Plymouth
MN 55446
US

00-01-21 (hex) WatchGuard Technologies, Inc.
000121 (base 16) WatchGuard Technologies, Inc.
605 Fifth Ave. S
Seattle WA 98104-3892
US

00-01-29 (hex) DFI Inc.
000129 (base 16) DFI Inc.
100, Huan-Ho Street
Hsi-Chih City Taipei Hsien
TW

00-01-15 (hex) EXTRATECH CORPORATION
000115 (base 16) EXTRATECH CORPORATION
760 Thornton St., Unit 2
Post Falls ID 83854
US

00-01-01 (hex) Private
000101 (base 16) Private

00-01-0D (hex) Teledyne DALSA Inc.
00010D (base 16) Teledyne DALSA Inc.
880 McCaffrey
St-Laurent Quebec H4T 2C7
CA

00-01-05 (hex) Beckhoff Automation GmbH
000105 (base 16) Beckhoff Automation GmbH
Eiserstraße 5
Verl NRW 33415
DE

00-B0-17 (hex) InfoGear Technology Corp.
00B017 (base 16) InfoGear Technology Corp.
2055 Woodside Road
Redwood City CA 94061
US

00-01-2B (hex) TELENET Co., Ltd.
00012B (base 16) TELENET Co.,
Ltd.

00-01-3F (hex) Neighbor World Co., Ltd.
00013F (base 16) Neighbor World Co., Ltd.
114A YERC, 134, Shinchon_dong
120-749 120-749 KOREA
KR

00-30-1B (hex) SHUTTLE, INC.
00301B (base 16) SHUTTLE, INC.
5F, No. 34, Lane 60
Taipei
TW

00-30-3A (hex) MAATEL
00303A (base 16) MAATEL
495 RUE DE POMMARIN
38360 VOREPPE
FR

00-30-2C (hex) SYLANTRO SYSTEMS CORPORATION
00302C (base 16) SYLANTRO SYSTEMS CORPORATION

1686 DELL AVENUE
CAMPBELL CA 95008
US

00-30-DF (hex) KB/TEL TELECOMUNICACIONES
0030DF (base 16) KB/TEL TELECOMUNICACIONES
S.A. DE C.V.
Mexico City 14060
MX

00-30-4E (hex) BUSTEC PRODUCTION LTD.
00304E (base 16) BUSTEC PRODUCTION LTD.
WORLD AVIATION PARK
Shannon County Clare
IE

00-30-63 (hex) SANTERA SYSTEMS, INC.
003063 (base 16) SANTERA SYSTEMS, INC.
2901 SUMMIT AVENUE - STE. #100
PLANO TX 75074
US

00-30-30
(hex) HARMONIX CORPORATION
003030 (base 16) HARMONIX CORPORATION
1755 OSGOOD STREET
NORTH ANDOVER MA 01845
US

00-30-A3 (hex) Cisco Systems, Inc
0030A3 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-30-FD (hex) INTEGRATED SYSTEMS DESIGN
0030FD (base 16) INTEGRATED SYSTEMS DESIGN
3650-G CENTRE CIRCLE DRIVE
FORT MILL SC 29715
US

00-30-B9 (hex) ECTEL
0030B9 (base 16) ECTEL
22240 COMSAT DRIVE
CLARKSBURG MD 20871
US

00-30-7D (hex) GRE AMERICA, INC.

00307D (base 16) GRE AMERICA, INC.
425 HARBOR BLVD.
BELMONT CA 94002
US

00-30-DD (hex) INDIGITA CORPORATION
0030DD (base 16) INDIGITA CORPORATION
30 Corporate Park Drive
Irvine CA 92606
US

00-30-99 (hex) BOENIG UND KALLENBACH OHG
003099 (base 16) BOENIG UND KALLENBACH OHG
AM SPOERKEL 100

DE

00-30-F2 (hex) Cisco Systems, Inc
0030F2 (base 16) Cisco
Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-30-51 (hex) ORBIT AVIONIC & COMMUNICATION
003051 (base 16) ORBIT AVIONIC & COMMUNICATION
SYSTEMS, LTD.

IL

00-30-08 (hex) AVIO DIGITAL, INC.
003008 (base 16) AVIO DIGITAL, INC.
957 INDUSTRIAL ROAD
SAN CARLOS CA 94070
US

00-30-1D (hex) SKYSTREAM, INC.
00301D (base 16) SKYSTREAM, INC.
455 DeGuigne Drive
Sunnyvale CA 94086-3835
US

00-30-A4 (hex) Woodwind Communications System
0030A4 (base 16) Woodwind Communications System
20300 Century Blvd., Suite 200B
Germantown MD 20874
US

00-30-3B (hex) PowerCom Technology
00303B (base 16) PowerCom Technology
2F, No. 34, Industry E. Road IV
Hsinchu 300
TW

00-30-BC (hex) Optronic AG
0030BC (base 16) Optronic AG
untereggerstrasse 53
9403 Goldach
CH

00-30-B8 (hex) RiverDelta Networks
0030B8 (base 16) RiverDelta Networks
Three
Highwood Drive East
Tewksbury MA 01876
US

00-30-71 (hex) Cisco Systems, Inc
003071 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-30-21 (hex) HSING TECH. ENTERPRISE CO.,LTD
003021 (base 16) HSING TECH. ENTERPRISE CO.,LTD
2F, NO. 22, ALLLEY 38, LANE 91
TAIPEI
TW

00-30-EF (hex) NEON TECHNOLOGY, INC.
0030EF (base 16) NEON TECHNOLOGY, INC.
85 WEST MONTAGUE EXPRESSWAY
MILPITAS CA 95035
US

00-30-27 (hex) KERBANGO, INC.
003027 (base 16) KERBANGO, INC.
21771 STEVENS CREEK BLVD. #100
CUPERTINO CA 95014
US

00-30-33 (hex) ORIENT TELECOM CO., LTD.
003033 (base 16) ORIENT TELECOM CO., LTD.
MISUNG BULDING 115-7
KOREA
KR

00-30-95 (hex) Procomp Informatics, Ltd.
003095 (base 16) Procomp Informatics, Ltd.
5F, 69-10, Sec. 2,
Tamshui, Taipei, Hsien
TW

00-30-CA (hex) Discovery Com
0030CA (base 16) Discovery Com
4935
Century Street
Huntsville AL 35816
US

00-30-CE (hex) Zaffire
0030CE (base 16) Zaffire
2630 Orchard Parkway
San Jose CA 95134-2020
US

00-30-BA (hex) AC&T SYSTEM CO., LTD.
0030BA (base 16) AC&T SYSTEM CO., LTD.
ROOM 702, KEUM-WHA PLAZA
435-040 SOUTH KOREA
KR

00-30-96 (hex) Cisco Systems, Inc
003096 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-30-39 (hex) SOFTBOOK PRESS
003039 (base 16) SOFTBOOK PRESS
7745 HERSCHEL AVENUE
LA JOLLA CA 92037
US

00-D0-97 (hex) Cisco Systems, Inc
00D097 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-D0-8E (hex) Grass Valley, A Belden Brand
00D08E (base 16) Grass Valley, A Belden Brand
3499, Douglas B. Floreani
Montreal Quebec H4S 2C6

CA

00-D0-56 (hex) SOMAT CORPORATION
00D056 (base 16) SOMAT CORPORATION
702 KILLARNEY STREET
URBANA IL 61801
US

00-D0-E0
(hex) DOOIN ELECTRONICS CO.
00D0E0 (base 16) DOOIN ELECTRONICS CO.
DOOIN BLDG. 16-6, SOONAE-DONG
KOREA 463-020
KR

00-D0-33 (hex) DALIAN DAXIAN NETWORK
00D033 (base 16) DALIAN DAXIAN NETWORK
SYSTEM CO., LTD.

CN

00-D0-D6 (hex) AETHRA TELECOMUNICAZIONI
00D0D6 (base 16) AETHRA TELECOMUNICAZIONI
VIA MATTEO RICCI, 10

IT

00-D0-63 (hex) Cisco Systems, Inc
00D063 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-D0-F8 (hex) FUJIAN STAR TERMINAL
00D0F8 (base 16) FUJIAN STAR TERMINAL
DEVICE CO., LTD.
FUZHOU FUJIAN, CHINA 350002
CN

00-D0-ED (hex) XIOX
00D0ED (base 16) XIOX
150 DOW STREET
MANCHESTER NH 03101
US

00-D0-55 (hex) KATHREIN-WERKE KG
00D055 (base 16) KATHREIN-WERKE KG
ANTON-KATHREIN-STRASS 1-3

DE

00-D0-3B (hex) VISION PRODUCTS PTY. LTD.
00D03B (base 16) VISION PRODUCTS PTY.
LTD.
SECOND AVENUE, TECHNOLOGY PARK
AUSTRALIA 5095
AU

00-D0-B3 (hex) DRS Technologies Canada Ltd
00D0B3 (base 16) DRS Technologies Canada Ltd
700 Palladium Drive
Ottawa Ontario K2V 1C6
CA

00-D0-00 (hex) FERRAN SCIENTIFIC, INC.
00D000 (base 16) FERRAN SCIENTIFIC, INC.
11558 SORRENTO VALLEY ROAD
SAN DIEGO CA 92121
US

00-D0-D0 (hex) ZHONGXING TELECOM LTD.
00D0D0 (base 16) ZHONGXING TELECOM LTD.
8-9F BUILDING 54,301#

CN

00-D0-53 (hex) CONNECTED SYSTEMS
00D053 (base 16) CONNECTED SYSTEMS
126 W. FIGUEROA STREET
SANTA BARBARA CA 93101
US

00-D0-B0 (hex) BITSWITCH LTD.
00D0B0 (base 16) BITSWITCH LTD.
3 MEADOW COURT, AMOS ROAD
UNITED KINGDOM
GB

00-D0-30 (hex) Safetran Systems Corp
00D030 (base 16) Safetran Systems Corp
10655 7th Street
Rancho Cucamonga CA 91730
US

00-D0-47 (hex) XN TECHNOLOGIES
00D047 (base 16) XN TECHNOLOGIES

P.O.
BOX 350
CHENEY WA 99004
US

00-D0-AF (hex) CUTLER-HAMMER, INC.
00D0AF (base 16) CUTLER-HAMMER, INC.
PMP CENTER
PITTSBURGH PA 15205
US

00-D0-52 (hex) ASCEND COMMUNICATIONS, INC.
00D052 (base 16) ASCEND COMMUNICATIONS, INC.
1701 HARBOR BAY PARKWAY
ALAMEDA CA 94502
US

00-D0-AD (hex) TL INDUSTRIES
00D0AD (base 16) TL INDUSTRIES
2541 TRACY ROAD
NORTHWOOD OH 43619
US

00-D0-A4 (hex) ALANTRO COMMUNICATIONS
00D0A4 (base 16) ALANTRO COMMUNICATIONS
141 STONY CIRCLE, STE. #210
SANTAROSA CA 95401
US

00-30-2A (hex) SOUTHERN INFORMATION
00302A (base 16) SOUTHERN INFORMATION
SYSTEM, INC.
HSINCHU TAIWAN, R.O.C.
TW

00-30-E1 (hex) Network Equipment Technologies, Inc.
0030E1 (base 16) Network Equipment Technologies, Inc.
6900 Paseo Padre Parkway
Fremont CA 94555
US

00-D0-83 (hex) INVERTEX, INC.
00D083 (base 16) INVERTEX, INC.
1012 MORSE AVENUE-
STE.#9
SUNNYVALE CA 94089
US

00-D0-BA (hex) Cisco Systems, Inc
00D0BA (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-D0-E4 (hex) Cisco Systems, Inc
00D0E4 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-D0-92 (hex) GLENAYRE WESTERN MULTIPLEX
00D092 (base 16) GLENAYRE WESTERN MULTIPLEX
1196 BORREGAS AVENUE
SUNNYVALE CA 94089
US

00-30-01 (hex) SMP
003001 (base 16) SMP
22, RUE DES COSMONAUTES

FR

00-D0-8B (hex) ADVA Optical Networking Ltd.
00D08B (base 16) ADVA Optical Networking Ltd.
ADVAntage House
York YO30 4RY
GB

00-D0-5A (hex) SYMBIONICS, LTD.
00D05A (base 16) SYMBIONICS, LTD.
ST. JOHN'S INNOVATION PARK
ENGLAND
GB

00-D0-79 (hex) Cisco Systems, Inc
00D079 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-D0-21 (hex) REGENT ELECTRONICS
CORP.
00D021 (base 16) REGENT ELECTRONICS CORP.
200 CENTENNIAL AVE.-STE. #201
PISCATAWAY NJ 08854
US

00-D0-9F (hex) NOVTEK TEST SYSTEMS
00D09F (base 16) NOVTEK TEST SYSTEMS
2170 PARAGON DRIVE
SAN JOSE CA 95131
US

00-D0-09 (hex) HSING TECH. ENTERPRISE CO. LTD
00D009 (base 16) HSING TECH. ENTERPRISE CO. LTD
NO.2, LANE 128, SEC. 2
TAIWAN TAIWAN R.O.C.
TW

00-D0-D4 (hex) V-BITS, INC.
00D0D4 (base 16) V-BITS, INC.
2150 TRADE ZONE BLVD.
SAN JOSE CA 95131
US

00-D0-E7 (hex) VCON TELECOMMUNICATION LTD.
00D0E7 (base 16) VCON TELECOMMUNICATION LTD.
22 MASKIT STREET

IL

00-D0-84 (hex) NEXCOMM SYSTEMS, INC.
00D084 (base 16) NEXCOMM SYSTEMS, INC.
SUIT #NAL-903,
SUNGNAM-CITY SUNGNAM-CITY KYUNGGI-DO,K
KR

00-D0-99 (hex) Elcard Wireless Systems Oy
00D099 (base 16) Elcard Wireless Systems Oy
P.O. BOX 120/BECKERINTIC 38

FI

00-D0-FE (hex) ASTRAL
POINT
00D0FE (base 16) ASTRAL POINT
COMMUNICATIONS, INC.
CHELMSFORD MA 01824
US

00-D0-98 (hex) Photon Dynamics Canada Inc.
00D098 (base 16) Photon Dynamics Canada Inc.
221 Whitehall Drive
L3R 9T1

CA

00-D0-BE (hex) EMUTEC INC.
00D0BE (base 16) EMUTEC INC.
P.O. BOX 3035
EVERETT WA 98203
US

00-D0-F4 (hex) CARINTHIAN TECH INSTITUTE
00D0F4 (base 16) CARINTHIAN TECH INSTITUTE
RICHARD-WAGNER STR. 19

AT

00-D0-7D (hex) COSINE COMMUNICATIONS
00D07D (base 16) COSINE COMMUNICATIONS
1200 BRIDGE PARKWAY
REDWOOD CITY CA 94065
US

00-D0-1B (hex) MIMAKI ENGINEERING CO., LTD.
00D01B (base 16) MIMAKI ENGINEERING CO., LTD.
5-9-41 KITA SHINAGAWA

JP

00-D0-0D (hex) MICROMERITICS INSTRUMENT
00D00D (base 16) MICROMERITICS INSTRUMENT
CORPORATION
NORCROSS GA 30093-1877
US

00-D0-4A (hex) PRESENCE TECHNOLOGY GMBH
00D04A (base 16) PRESENCE
TECHNOLOGY GMBH
+ CO. KG

DE

00-D0-74 (hex) TAQUA SYSTEMS, INC.
00D074 (base 16) TAQUA SYSTEMS, INC.
1600 FALMOUTH RD. - STE
CENTERVILLE MA 02632
US

00-D0-C7 (hex) PATHWAY, INC.
00D0C7 (base 16) PATHWAY, INC.
777 BETA DRIVE

MAYFIELD VILLAGE OH 44143
US

00-D0-7A (hex) AMAQUEST COMPUTER CORP.
00D07A (base 16) AMAQUEST COMPUTER CORP.
8/F, 79 HSIN-TAI
TAIWAN R.O.C.
TW

00-D0-B8 (hex) Iomega Corporation
00D0B8 (base 16) Iomega Corporation
1821 West 4000 South
Roy UT 84067
US

00-50-9D (hex) THE INDUSTREE B.V.
00509D (base 16) THE INDUSTREE B.V.
P.O. BOX 462
THE
NL

00-50-6D (hex) VIDEOJET SYSTEMS
00506D (base 16) VIDEOJET SYSTEMS
INTERNATIONAL INC.
WOODDALE IL 60091-1073
US

00-50-74 (hex) ADVANCED HI-TECH CORP.
005074 (base 16) ADVANCED HI-TECH CORP.
1990 EAST GRAND AVE.
EL SEGUNDO CA 90505
US

00-50-0A (hex) IRIS
TECHNOLOGIES, INC.
00500A (base 16) IRIS TECHNOLOGIES, INC.
WESTMORELAND INDUSRIAL PARK
GREENSBURG PA 15601
US

00-D0-54 (hex) SAS INSTITUTE INC.
00D054 (base 16) SAS INSTITUTE INC.
SAS CAMPUS DRIVE, R4
CARY NC 27511
US

00-50-70 (hex) CHAINTECH COMPUTER CO., LTD.
005070 (base 16) CHAINTECH COMPUTER CO., LTD.

5TH F, ALLEY 2, LANE 222
TAIWAN R.O.C.
TW

00-50-23 (hex) PG DESIGN ELECTRONICS, INC.
005023 (base 16) PG DESIGN ELECTRONICS, INC.
48700 STRUCTURAL DRIVE
CHESTERFIELD MI 48051
US

00-50-B1 (hex) GIDDINGS & LEWIS
0050B1 (base 16) GIDDINGS & LEWIS
660 S. MILITARY RD.
FOND DU LAC WI 54935
US

00-50-9E (hex) Les Technologies SoftAcoustik Inc.
00509E (base 16) Les Technologies SoftAcoustik Inc.

Quebec G1K 3P6
CA

00-50-71 (hex) AIWA CO., LTD.
005071 (base 16) AIWA CO., LTD.
1-11, KAMITOMATSURI 4-CHOME
UTSUNOMIYA-SHI, TOCHIGI-KEN 320-85

JP

00-50-5F (hex) BRAND INNOVATORS
00505F (base 16) BRAND INNOVATORS
Steenovenweg 5
Helmond 5708 HN
NL

00-50-B4 (hex) SATCHWELL CONTROL SYSTEMS, LTD
0050B4 (base 16) SATCHWELL CONTROL SYSTEMS, LTD
P.O. BOX 57, 94 FARNHAM ROAD
BERKSHIRE SL1 4UH
GB

00-50-6A (hex) EDEVA, INC.
00506A (base 16) EDEVA, INC.
298 S. SUNNYVALE AVE. - #208
SUNNYVALE CA 94086
US

00-50-C5 (hex) ADS Technologies, Inc

0050C5 (base 16) ADS Technologies, Inc
12627 Hiddencreek Way
Cerritos CA 90703
US

00-50-8E (hex) OPTIMATION, INC.
00508E (base 16) OPTIMATION, INC.
P.O. BOX 14357
HUNTSVILLE AL 35815
US

00-50-28 (hex) AVAL COMMUNICATIONS
005028 (base 16) AVAL COMMUNICATIONS
1777 NORTH CALIFORNIA BLVD.
WALNUT CREEK CA 94596
US

00-50-2F (hex) TollBridge Technologies, Inc.
00502F (base 16) TollBridge Technologies, Inc.
872 HERMOSA DRIVE
SUNNYVALE CA 94086
US

00-50-AA
(hex) KONICA MINOLTA HOLDINGS, INC.
0050AA (base 16) KONICA MINOLTA HOLDINGS, INC.
1-6-1, Marunouchi,
Tokyo 100-0005
JP

00-50-38 (hex) DAIN TELECOM CO., LTD.
005038 (base 16) DAIN TELECOM CO., LTD.
2ND Flr., OH-SUNG BLDG. #2-28
YANGJAE-DONG, SEOCHO-GU SEOUL
KR

00-50-A8 (hex) OpenCon Systems, Inc.
0050A8 (base 16) OpenCon Systems, Inc.
377 HOES LANE
PISCATAWAY NJ 08854
US

00-50-9C (hex) BETA RESEARCH
00509C (base 16) BETA RESEARCH
BETASTR. 1
85774 UNTERFOEHRING
DE

00-50-D6 (hex) ATLAS COPCO TOOLS AB
0050D6 (base 16) ATLAS COPCO TOOLS AB

S-105 23 STOCKHOLM
SE

00-50-82 (hex) FORESSON CORPORATION
005082 (base 16) FORESSON CORPORATION
3F, NO.9 SEC.1
TAIPEI 10404
TW

00-50-DF (hex) AirFiber, Inc.
0050DF (base 16) AirFiber, Inc.
P.O. BOX 502148
SAN DIEGO CA 92150-2148
US

00-50-37 (hex) KOGA ELECTRONICS
CO.
005037 (base 16) KOGA ELECTRONICS CO.
5-8-10, TEHARA, RITTO-CHO
SHIGA, 420-3047
JP

00-50-06 (hex) TAC AB
005006 (base 16) TAC AB
JAGERSHILLGATON 18
21375 MALMO
SE

00-50-09 (hex) PHILIPS BROADBAND NETWORKS
005009 (base 16) PHILIPS BROADBAND NETWORKS
64 PERIMETER CENTRE EAST
ATLANTA GA 30346
US

00-50-30 (hex) FUTURE PLUS SYSTEMS
005030 (base 16) FUTURE PLUS SYSTEMS
36 OLDE ENGLISH RD.
BEDFORD NH 03110
US

00-50-58 (hex) Sangoma Technologies
005058 (base 16) Sangoma Technologies
100 Renfrew Drive, Suite 100
Markham ON L3R 9R6
CA

00-50-FE (hex) PCTVnet ASA
0050FE (base 16) PCTVnet ASA
STRANDVEILEN 50
N-1324 LYSAKER
NO

00-50-AB (hex) NALTEC, Inc.
0050AB (base 16) NALTEC, Inc.
1-1-15, Nakanogo, Shimizu-ku
Shizuoka-shi Shizuoka 424-0888
JP

00-50-32 (hex) PICAZO COMMUNICATIONS, INC.
005032 (base 16) PICAZO COMMUNICATIONS,
INC.
61 DAGGETT DRIVE
SAN JOSE CA 95134
US

00-50-4D (hex) Tokyo Electron Device Limited
00504D (base 16) Tokyo Electron Device Limited
1, Higashikata-machi, Tsuzuki-ku,
Yokohama-shi Kanagawa-ken
JP

00-50-B7 (hex) BOSER TECHNOLOGY CO., LTD.
0050B7 (base 16) BOSER TECHNOLOGY CO., LTD.
15F-6, 77 HSIN TAI WU ROAD
TAIPEI HSIEN
TW

00-50-78 (hex) MEGATON HOUSE, LTD.
005078 (base 16) MEGATON HOUSE, LTD.
ZIP: 224 NO.1-3-5 NAKAMACHIBAI
YOKOHAMA
JP

00-50-02 (hex) OMNISEC AG
005002 (base 16) OMNISEC AG
RIETSTRASSE 14
CH-8108 DAELLIKON
CH

00-50-3F (hex) ANCHOR GAMES
00503F (base 16) ANCHOR GAMES
815 PILOT ROAD - STE
LAS VEGAS NV 89119

US

00-90-E6 (hex) ALi Corporation
0090E6 (base 16) ALi Corporation
6F, 246 NeiHu Road, Sec. 1
Taipei 114
TW

00-90-70 (hex) NEO NETWORKS, INC.
009070 (base 16) NEO NETWORKS, INC.
10300 BREN ROAD EAST
MINNETONKA
MN 55343
US

00-90-30 (hex) HONEYWELL-DATING
009030 (base 16) HONEYWELL-DATING
VIA TINTORETTO, 15
21012 CASSANO MAGNAGO (VA)
IT

00-90-08 (hex) HanA Systems Inc.
009008 (base 16) HanA Systems Inc.
EAHO B/D 740-1
SEOUL
KR

00-90-88 (hex) BAXALL SECURITY LTD.
009088 (base 16) BAXALL SECURITY LTD.
UNIT 1 CASTLEHILL
STOCKPORT Great Britain SK6 2SV
GB

00-90-6C (hex) Sartorius Hamburg GmbH
00906C (base 16) Sartorius Hamburg GmbH
Meiendorferstraße 205
Hamburg D-22145
DE

00-90-A4 (hex) ALTIGA NETWORKS
0090A4 (base 16) ALTIGA NETWORKS
124 GROVE STREET
FRANKLIN MA 02038-3206
US

00-50-D0 (hex) MINERVA SYSTEMS
0050D0 (base 16) MINERVA SYSTEMS
1585 CHARLESTON ROAD

MOUNTAIN VIEW CA 84943
US

00-50-D8 (hex) UNICORN COMPUTER CORP.
0050D8 (base 16) UNICORN COMPUTER CORP.
7 FL., NO. 96 KWANG FU NORTH ROAD
TAIPEI
TW

00-50-B2
(hex) BRODEL GmbH
0050B2 (base 16) BRODEL GmbH
Distelbusch 24
Velbert NRW 42549
DE

00-90-76 (hex) FMT AIRCRAFT GATE SUPPORT SYSTEMS AB
009076 (base 16) FMT AIRCRAFT GATE SUPPORT SYSTEMS AB

SE-231 32 TRELLEBORG
SE

00-90-17 (hex) Zypcom, Inc
009017 (base 16) Zypcom, Inc
28400 Kohoutek Way
Union City CA 94587-1212
US

00-90-49 (hex) ENTRIDIA CORPORATION
009049 (base 16) ENTRIDIA CORPORATION
101 PARK CENTER PLAZA
SAN JOSE CA 95113-2218
US

00-90-9A (hex) ONE WORLD SYSTEMS, INC.
00909A (base 16) ONE WORLD SYSTEMS, INC.
1144 EAST ARQUES AVENUE
SUNNYVALE CA 94086
US

00-90-C2 (hex) JK microsystems, Inc.
0090C2 (base 16) JK microsystems, Inc.
1275 YUBA AVENUE
SAN PABLO CA 94806
US

00-90-AC (hex) OPTIVISION, INC.
0090AC (base 16) OPTIVISION, INC.

3450 HILLVIEW AVENUE
PALO ALTO CA 94304
US

00-90-4E (hex) DELEM BV
00904E
(base 16) DELEM BV
LUCHTHAVEN WEG 42
5657 EB EINDHOVEN
NL

00-90-ED (hex) CENTRAL SYSTEM RESEARCH CO., LTD.
0090ED (base 16) CENTRAL SYSTEM RESEARCH CO., LTD.
4-13-2 HIYOSHICHO
KOKUBUNJI-CITY TOKYO 18500032
JP

00-90-80 (hex) NOT LIMITED, INC.
009080 (base 16) NOT LIMITED, INC.
500 ALLERTON STREET, STE #102
REDWOOD CITY CA 94063
US

00-90-E8 (hex) MOXA TECHNOLOGIES CORP., LTD.
0090E8 (base 16) MOXA TECHNOLOGIES CORP., LTD.
7F, NO. 2, ALY6, LN 235
SHIENG-TIEN CITY TAIPEI
TW

00-90-A1 (hex) Flying Pig Systems/High End Systems Inc.
0090A1 (base 16) Flying Pig Systems/High End Systems Inc.
2105 Gracy Farms Lane
Austin TX 78758
US

00-90-79 (hex) ClearOne, Inc.
009079 (base 16) ClearOne, Inc.
299 WASHINGTON STREET
WOBURN MA 01801
US

00-90-F9 (hex) Imagine Communications
0090F9 (base 16) Imagine Communications
3001 Dallas Parkway, Suite 300
Frisco
TX 75034
US

00-90-89 (hex) SOFTCOM MICROSYSTEMS, INC.
009089 (base 16) SOFTCOM MICROSYSTEMS, INC.
47509 SEABRIDGE DRIVE
FREMONT CA 94538
US

00-90-EE (hex) PERSONAL COMMUNICATIONS TECHNOLOGIES
0090EE (base 16) PERSONAL COMMUNICATIONS TECHNOLOGIES
50 STILES ROAD
SALEM NH 03079
US

00-90-01 (hex) NISHIMU ELECTRONICS INDUSTRIES CO., LTD.
009001 (base 16) NISHIMU ELECTRONICS INDUSTRIES CO., LTD.
700 TATENO MITAGAWA-CHO
KANZAKI-GUN SAGA PREF.
JP

00-90-AD (hex) ASPECT ELECTRONICS, INC.
0090AD (base 16) ASPECT ELECTRONICS, INC.
12740 EARHART AVE.
AUBURN CA 95602
US

00-90-1E (hex) Selesta Ingegneria S.p.A.
00901E (base 16) Selesta Ingegneria S.p.A.
via di Francia, 28
Genova 16149
IT

00-90-75 (hex) NEC DO BRASIL S.A.
009075 (base 16) NEC DO BRASIL S.A.
RODOVIA PRESIDENTE DUTRA, KM 218
São Paulo-SP CEP - 07210-902
BR

00-90-C8 (hex) WAVERIDER COMMUNICATIONS
(CANADA) INC.
0090C8 (base 16) WAVERIDER COMMUNICATIONS (CANADA) INC.

British Columbia V1E 4R9
CA

00-90-1B (hex) DIGITAL CONTROLS
00901B (base 16) DIGITAL CONTROLS
305 PIONEER BLVD.
SPRINGBORO OH 45066-1100
US

00-90-43 (hex) Tattile SRL
009043 (base 16) Tattile SRL
1-13-10 SHIROGANE CHUO-KU
FUKUOKA-CITY
JP

00-10-69 (hex) HELIOSS COMMUNICATIONS, INC.
001069 (base 16) HELIOSS COMMUNICATIONS, INC.
391 TOTTEM POND RD.- STE#303
WALTHAM MA 02154
US

00-10-BF (hex) InterAir Wireless
0010BF (base 16) InterAir Wireless
485 CAYUGA ROAD
BUFFALO NY 14225-0222
US

00-10-36 (hex) INTER-TEL INTEGRATED SYSTEMS
001036 (base 16) INTER-TEL INTEGRATED SYSTEMS
7300 W. BOSTON STREET
CHANDLER AZ 85226
US

00-10-26 (hex) ACCELERATED NETWORKS, INC.
001026 (base 16) ACCELERATED NETWORKS, INC.
31238 VIA COLINAS, UNIT
WESTLAKE VILLAGE CA 91362
US

00-10-AC
(hex) IMCI TECHNOLOGIES
0010AC (base 16) IMCI TECHNOLOGIES
8401 OLD COURT HKOUSE RD
VIENNA VA 22182
US

00-90-F7 (hex) NBASE COMMUNICATIONS LTD.
0090F7 (base 16) NBASE COMMUNICATIONS LTD.
INDUSTRIAL PARK

IL

00-90-12 (hex) GLOBESPAN SEMICONDUCTOR, INC.
009012 (base 16) GLOBESPAN SEMICONDUCTOR, INC.
100 SCHULZ DRIVE
RED BANK NJ 07701

US

00-90-8A (hex) BAYLY COMMUNICATIONS, INC.
00908A (base 16) BAYLY COMMUNICATIONS, INC.
105 GREEN COURT
AJAX Ontario L1S 6W9
CA

00-90-0E (hex) HANDLINK TECHNOLOGIES, INC.
00900E (base 16) HANDLINK TECHNOLOGIES, INC.
5F, 24-2, Industry E. Road IV,
Hsinchu 30077
TW

00-90-E4 (hex) NEC AMERICA, INC.
0090E4 (base 16) NEC AMERICA, INC.
3100 N.E. SHUTE ROAD
HILLSBORO OR 97124
US

00-10-7D (hex) AURORA COMMUNICATIONS, LTD.
00107D (base 16) AURORA COMMUNICATIONS, LTD.
P.O. BOX 1942
NSW 2113
AU

00-10-39
(hex) Vectron Systems AG
001039 (base 16) Vectron Systems AG
Willy-Brandt-Weg 41
48155 Muenster
DE

00-10-B6 (hex) ENTRATA COMMUNICATIONS CORP.
0010B6 (base 16) ENTRATA COMMUNICATIONS CORP.
574 HERITAGE RD.
SOUTHBURY CT 06488
US

00-10-EC (hex) Embedded Planet
0010EC (base 16) Embedded Planet
31225 Bainbridge Road, Suite N
Solon OH 44139
US

00-10-59 (hex) DIABLO RESEARCH CO. LLC
001059 (base 16) DIABLO RESEARCH CO. LLC
825 STEWART DRIVE

SUNNYVALE CA 94086
US

00-10-23 (hex) Network Equipment Technologies
001023 (base 16) Network Equipment Technologies
6900 Paseo Padre Parkway
Freemont CA 94555-3660
US

00-10-2B (hex) UMAX DATA SYSTEMS, INC.
00102B (base 16) UMAX DATA SYSTEMS, INC.
NO. 1-1, R&D ROAD 2
HSINCHU
TW

00-10-8D (hex) Johnson Controls, Inc.
00108D (base 16) Johnson Controls, Inc.
507 E. Michigan St.
Milwaukee WI
53201
US

00-10-45 (hex) Nortel Networks
001045 (base 16) Nortel Networks
OPTera Solutions Division
Kanata Ontario K2K-2X3
CA

00-90-47 (hex) GIGA FAST E. LTD.
009047 (base 16) GIGA FAST E. LTD.
14F, NO.112, SEC. 1
Hsi-Chih Taipei Hsien
TW

00-90-E1 (hex) TELENA S.P.A.
0090E1 (base 16) TELENA S.P.A.
VIA SAVONA, 146
20144 MILANO
IT

00-90-CB (hex) Wireless OnLine, Inc.
0090CB (base 16) Wireless OnLine, Inc.
4410 EL CAMINO REAL, STE #101
LOS ALTOS CA 94022
US

00-10-63 (hex) STARGUIDE DIGITAL NETWORKS
001063 (base 16) STARGUIDE DIGITAL NETWORKS

5754 PACIFIC CENTER BLVD.
SAN DIEGO CA 92121
US

00-10-FC (hex) BROADBAND NETWORKS, INC.
0010FC (base 16) BROADBAND NETWORKS, INC.
37 STEVENSON ROAD
WINNIPEG, MANITOBA R3H 0H9
CA

00-10-31 (hex) OBJECTIVE COMMUNICATIONS, INC.
001031 (base 16) OBJECTIVE COMMUNICATIONS, INC.
75 ROCHESTER AVE.
PORTSMOUTH
NH 03801
US

00-10-6D (hex) Axxcelera Broadband Wireless
00106D (base 16) Axxcelera Broadband Wireless
1600 East Parham Road
Richmond VA 23228
US

00-90-C1 (hex) Peco II, Inc.
0090C1 (base 16) Peco II, Inc.
7060 Huntley Road
Columbus OH 43229
US

00-90-40 (hex) Siemens Network Convergence LLC
009040 (base 16) Siemens Network Convergence LLC
Ten Technology Park Drive
Westford MA 01886-3146
US

00-90-B7 (hex) DIGITAL LIGHTWAVE, INC.
0090B7 (base 16) DIGITAL LIGHTWAVE, INC.
601 CLEVELAND STREET- 5TH FL.
CLEARWATER FL 33755
US

00-90-A0 (hex) 8X8 INC.
0090A0 (base 16) 8X8 INC.
2445 MISSION COLLEGE BLVD.
SANTA CLARA CA 95054
US

00-90-32 (hex) PELCOMBE GROUP LTD.

009032 (base 16) PELCOMBE GROUP LTD.
MAIN ROAD
ESSEX C012 4LP
GB

00-10-30 (hex) EION Inc.
001030 (base 16) EION Inc.
320 March Road
Ottawa ON K2K 2E3
CA

00-10-62
(hex) NX SERVER, ILNC.
001062 (base 16) NX SERVER, ILNC.
5401 E. LA PALMA AVE.
ANAHEIM CA 92807
US

00-10-F0 (hex) RITTAL-WERK RUDOLF LOH GmbH & Co.
0010F0 (base 16) RITTAL-WERK RUDOLF LOH GmbH & Co.
AUF DEM STUTZELBERG
D-35745 HERBORN
DE

00-10-01 (hex) Citel
001001 (base 16) Citel
Loughborough Innovation Centre
Loughborough LE11 3EH
GB

00-10-5C (hex) QUANTUM DESIGNS (H.K.) LTD.
00105C (base 16) QUANTUM DESIGNS (H.K.) LTD.
5/F., SOMERSET HOUSE, TAIKOO PLACE
QUARRY BAY
HK

00-10-CF (hex) FIBERLANE COMMUNICATIONS
0010CF (base 16) FIBERLANE COMMUNICATIONS
1318 REDWOOD WAY, #200
PETALUMA CA 94954
US

00-10-A4 (hex) XIRCOM
0010A4 (base 16) XIRCOM
2300 CORPORATE CENTER DR.
THOUSAND OAKS CA 91320
US

00-10-75 (hex) Segate Technology LLC
001075 (base 16) Segate Technology LLC
10200 S De Anza Blvd
Cupertino CA 95014
US

00-10-B1
(hex) FOR-A CO., LTD.
0010B1 (base 16) FOR-A CO., LTD.
2-3-3 OOSAKU
CHIBA PREF. 285
JP

00-10-EE (hex) CTI PRODUCTS, INC.
0010EE (base 16) CTI PRODUCTS, INC.
1211 W. SHARON RD.
CINCINNATI OH 45240
US

00-10-41 (hex) BRISTOL BABCOCK, INC.
001041 (base 16) BRISTOL BABCOCK, INC.
1100 BUCKINGHAM STREET
WATERTOWN CT 06795
US

00-10-AA (hex) MEDIA4, INC.
0010AA (base 16) MEDIA4, INC.
250 14TH ST. NW - STE #4002
ATLANTA GA 30318
US

00-10-E8 (hex) TELOCITY, INCORPORATED
0010E8 (base 16) TELOCITY, INCORPORATED
992 SOUTH DE ANZA BLVD
SAN JOSE CA 95129
US

00-10-A2 (hex) TNS
0010A2 (base 16) TNS
800 Third Street, Suite B100
HERNDON VA 20170
US

00-10-00 (hex) CABLE TELEVISION LABORATORIES, INC.
001000 (base 16) CABLE TELEVISION LABORATORIES, INC.
858 Coal Creek Circle
Louisville CO 80027
US

00-10-09 (hex) HORANET
001009 (base 16) HORANET

ZI Route de Niort – BP 70328
FONTENAY LE COMTE CEDEX VENDEE 85206
FR

00-10-F8 (hex) TEXIO TECHNOLOGY CORPORATION
0010F8 (base 16) TEXIO TECHNOLOGY CORPORATION
2-18-13 Shin Yokohama,
222-0033
JP

00-10-66 (hex) ADVANCED CONTROL SYSTEMS, INC.
001066 (base 16) ADVANCED CONTROL SYSTEMS, INC.
2755 NORTHWOODS PARKWAY
NORCROSS GA 30071
US

00-10-4C (hex) Teledyne LeCroy, Inc
00104C (base 16) Teledyne LeCroy, Inc
3385 Scott Blvd.
Santa Clara CA 95054
US

00-10-CC (hex) CLP COMPUTER LOGISTIK PLANUNG GmbH
0010CC (base 16) CLP COMPUTER LOGISTIK PLANUNG GmbH
BASSERMANNSTR. 21
D-81245 MUENCHEN
DE

00-10-57 (hex) Rebel.com, Inc.
001057 (base 16) Rebel.com, Inc.
150 ISABELLA STREET--STE. 1000
OTTAWA, ONTARIO K1S 1V7
CA

00-10-65 (hex) RADYNE CORPORATION
001065 (base 16) RADYNE CORPORATION
5225 S. 37TH STREET
PHOENIX AZ 85040
US

00-10-1D (hex) WINBOND
ELECTRONICS CORP.
00101D (base 16) WINBOND ELECTRONICS CORP.
NO. 4, CREATION RD. III

HSIN CHU
TW

00-10-02 (hex) ACTIA
001002 (base 16) ACTIA
25 CHEMIN DE POUVOURVILLE
31432 TOULOUSE, CEDEX 04
FR

00-10-5B (hex) NET INSIGHT AB
00105B (base 16) NET INSIGHT AB
Västberga Allé 9
SE-1260 30 Hägersten
SE

00-10-EB (hex) SELSIUS SYSTEMS, INC.
0010EB (base 16) SELSIUS SYSTEMS, INC.
5057 KELLER SPRINGS RD.
DALLAS TX 75248
US

00-10-9F (hex) PAVO, INC.
00109F (base 16) PAVO, INC.
95 YESLER WAY
SEATTLE WA 98104
US

00-10-84 (hex) K-BOT COMMUNICATIONS
001084 (base 16) K-BOT COMMUNICATIONS
P.O. BOX 410
NORTON MA 02766
US

00-10-F9 (hex) UNIQUE SYSTEMS, INC.
0010F9 (base 16) UNIQUE SYSTEMS, INC.
181 DON PARK RD
MARKHAM, ONTARIO L3R 1C2
CA

00-10-D0 (hex) WITCOM, LTD.
0010D0 (base 16) WITCOM, LTD.
P.O.B. 2250
HAIFA
31021
IL

00-10-93 (hex) CMS COMPUTERS, LTD.
001093 (base 16) CMS COMPUTERS, LTD.

201 ARCADIA
MUMBAI 400 0021
IN

00-10-8F (hex) RAPTOR SYSTEMS
00108F (base 16) RAPTOR SYSTEMS
69 HICKORY AVE.
WALTHAM MA 02154
US

00-10-F1 (hex) I-O CORPORATION
0010F1 (base 16) I-O CORPORATION
2256 SOUTH 3600 WEST
SALT LAKE CITY UT 84119
US

00-10-C0 (hex) ARMA, Inc.
0010C0 (base 16) ARMA, Inc.
4851 Northshore Lane
North Little Rock AR 72118
US

00-E0-08 (hex) AMAZING CONTROLS! INC.
00E008 (base 16) AMAZING CONTROLS! INC.
1615 WYATT DRIVE
SANTA CLARA CA 95054
US

00-E0-AE (hex) XAQTI CORPORATION
00E0AE (base 16) XAQTI CORPORATION
1630 OAKLAND RD. #A-214
SAN JOSE CA 95131
US

00-E0-E0 (hex) SI ELECTRONICS, LTD.
00E0E0 (base 16) SI ELECTRONICS, LTD.
28-16, SHIMOMARUKO 2-CHOME,
TOKYO 146
JP

00-E0-C8 (hex) VIRTUAL ACCESS, LTD.
00E0C8 (base
16) VIRTUAL ACCESS, LTD.
WOODSIDE HOUSE, WINKFIELD,
WINDSOR, BERKSHIRE SL4 2DX ENGLAND
GB

00-E0-06 (hex) SILICON INTEGRATED SYS. CORP.

00E006 (base 16) SILICON INTEGRATED SYS. CORP.
16, CREATION RD. I
HSIN CHU
TW

00-E0-AC (hex) MIDSCO, INC.
00E0AC (base 16) MIDSCO, INC.
710 ROUTE 46 EAST
FAIRFIELD NJ 07004
US

00-E0-95 (hex) ADVANCED-VISION TECHNOLGIES CORP.
00E095 (base 16) ADVANCED-VISION TECHNOLGIES CORP.
8F-1, 87 SECTION 3, CHUNG YANG RD,
Tu Cheng Taipei
TW

00-E0-0E (hex) AVALON IMAGING SYSTEMS, INC.
00E00E (base 16) AVALON IMAGING SYSTEMS, INC.
3133 INDIAN ROAD
BOULDER CO 80301
US

08-BB-CC (hex) AK-NORD EDV VERTRIEBSGES. mbH
08BBCC (base 16) AK-NORD EDV VERTRIEBSGES. mbH
FRIEDRICHSTRASSE 10
25436 TORNESCH
DE

00-E0-03 (hex) NOKIA WIRELESS BUSINESS COMMUN
00E003 (base 16) NOKIA WIRELESS BUSINESS COMMUN
ACCESS POINT PRODUCTS GROUP
CB4
0WS
GB

00-E0-48 (hex) SDL COMMUNICATIONS, INC.
00E048 (base 16) SDL COMMUNICATIONS, INC.
P.O. BOX 1303
EASTON MA 02334
US

00-E0-CB (hex) RESON, INC.
00E0CB (base 16) RESON, INC.
300 LOPEZ ROAD
GOLETA CA 93117
US

00-E0-FA (hex) TRL TECHNOLOGY, LTD.
00E0FA (base 16) TRL TECHNOLOGY, LTD.
SHANNON WAY, ASHCHURCH,
TEWKESBURY, GLOS. GL20 8ND
GB

00-E0-2C (hex) AST COMPUTER
00E02C (base 16) AST COMPUTER
16215 ALTON PARKWAY
IRVINE CA 92718
US

00-E0-67 (hex) eac AUTOMATION-CONSULTING GmbH
00E067 (base 16) eac AUTOMATION-CONSULTING GmbH
HERMSDORFER DAMM 222
73467 BERLIN
DE

00-E0-9F (hex) PIXEL VISION
00E09F (base 16) PIXEL VISION
43 NAGOG PARK
ACTON MA 01720
US

00-E0-DB (hex) ViaVideo Communications, Inc.
00E0DB (base 16) ViaVideo Communications, Inc.
8900 SHOAL CREEK BLVD.
AUSTIN TX 78757
US

00-E0-A6 (hex) TELOGY NETWORKS,
INC.
00E0A6 (base 16) TELOGY NETWORKS, INC.
20250 CENTURY BLVD.
GERMANTOWN MD 20874
US

00-E0-F3 (hex) WebSprint Communications, Inc.
00E0F3 (base 16) WebSprint Communications, Inc.
3026 SCOTT BLVD.
SANTA CLARA CA 95054
US

00-E0-CC (hex) HERO SYSTEMS, LTD.
00E0CC (base 16) HERO SYSTEMS, LTD.
THE BARNES, COOMBELANDS LANE,
SURREY KT15 1HY ENGLAND
GB

00-E0-80 (hex) CONTROL RESOURCES CORPORATION
00E080 (base 16) CONTROL RESOURCES CORPORATION
16-00 POLLITT DRIVE
FAIR LAWN NJ 07410
US

00-E0-04 (hex) PMC-SIERRA, INC.
00E004 (base 16) PMC-SIERRA, INC.
105-8555 BAXTER PLACE
BURNABY, BC V5A 4V7
CA

00-E0-3B (hex) PROMINET CORPORATION
00E03B (base 16) PROMINET CORPORATION
110 TURNPIKE RD. - STE. #208
WESTBOROUGH MA 01581
US

00-E0-F5 (hex) TELES AG
00E0F5 (base 16) TELES AG
DOVESTR. 2-4
10587 BERLIN
DE

00-E0-D7 (hex) SUNSHINE ELECTRONICS,
INC.
00E0D7 (base 16) SUNSHINE ELECTRONICS, INC.
46560 FREMONT BLVD. -STE. #113
FREMONT CA 94538
US

00-E0-B5 (hex) ARDENT COMMUNICATIONS CORP.
00E0B5 (base 16) ARDENT COMMUNICATIONS CORP.
3801 ZANKER ROAD, Suite A
SAN JOSE CA 95134
US

00-E0-F1 (hex) THAT CORPORATION
00E0F1 (base 16) THAT CORPORATION
734 FOREST STREET
MARLBOROUGH MA 01752
US

00-E0-AF (hex) GENERAL DYNAMICS INFORMATION SYSTEMS
00E0AF (base 16) GENERAL DYNAMICS INFORMATION SYSTEMS
COMPUTING DEVICES, LTD.
FALLS CHURCH VA 22042-4523

US

00-E0-54 (hex) KODAI HITEC CO., LTD.
00E054 (base 16) KODAI HITEC CO., LTD.
2-45 ONUMA HANYU CITY
SAITAMA.348
JP

00-E0-B9 (hex) BYAS SYSTEMS
00E0B9 (base 16) BYAS SYSTEMS
2250 MONROE STREET, #371
SANTA CLARA CA 95050
US

00-60-4B (hex) Safe-com GmbH & Co. KG
00604B (base 16) Safe-com GmbH & Co. KG
Burg Lichtenfels 1
35104 Lichtenfels

DE

00-60-6B (hex) Synclayer Inc.
00606B (base 16) Synclayer Inc.
1-20 Himegaoka
GIFU 509-0249
JP

00-60-3B (hex) AMTEC spa
00603B (base 16) AMTEC spa
LOC. S. MARTINO
53025 PIANCASTAGNAIO (SIENA)
IT

00-E0-2A (hex) TANDBERG TELEVISION AS
00E02A (base 16) TANDBERG TELEVISION AS
PHILIP PEDERSENS V 20
N-1324 LYSAKER
NO

00-E0-4E (hex) SANYO DENKI CO., LTD.
00E04E (base 16) SANYO DENKI CO., LTD.
812-3, Shimonogou, Ueda-Shi
Nagano 386-1211
JP

00-E0-12 (hex) PLUTO TECHNOLOGIES INTERNATIONAL INC.
00E012 (base 16) PLUTO TECHNOLOGIES INTERNATIONAL INC.
2511 55TH STREET

BOULDER CO 80301
US

00-E0-4C (hex) REALTEK SEMICONDUCTOR CORP.
00E04C (base 16) REALTEK SEMICONDUCTOR CORP.
1F, NO. 11, INDUSTRY E. RD. IX
HSINCHU 300
TW

00-E0-EF (hex) DIONEX
00E0EF (base 16) DIONEX
PO BOX 3603
SUNNYVALE CA 94088-3603
US

00-E0-51 (hex) TALX
CORPORATION
00E051 (base 16) TALX CORPORATION
1850 BORMAN COURT
ST. LOUIS MO 63146
US

00-E0-39 (hex) PARADYNE CORP.
00E039 (base 16) PARADYNE CORP.
8545 126TH AVENUE NORTH
LARGO FL 33773
US

00-60-0B (hex) LOGWARE GmbH
00600B (base 16) LOGWARE GmbH
SCHWEDENSTR. 9
D-13359 BERLIN
DE

00-60-D5 (hex) AMADA MIYACHI Co., Ltd
0060D5 (base 16) AMADA MIYACHI Co., Ltd
95-3, FUTASUZUKA NODA
CHIBA 278-0016
JP

00-60-3F (hex) PATAPSCO DESIGNS
00603F (base 16) PATAPSCO DESIGNS
5350 PARTNERS COURT
FREDERICK MD 21703
US

00-E0-2D (hex) InnoMediaLogic, Inc.
00E02D (base 16) InnoMediaLogic, Inc.

3653 CHEMIN CHAMBLY
LONGUEUIL, QUEBEC J4L J4L IN9
CA

00-E0-35 (hex) Artesyn Embedded Technologies
00E035 (base 16) Artesyn Embedded Technologies
2900 S. Diablo Way
Tempe AZ 85282
US

00-E0-90 (hex) BECKMAN LAB. AUTOMATION DIV.
00E090 (base 16) BECKMAN
LAB. AUTOMATION DIV.
90 BOROLINE ROAD
ALLENDALE NJ 07401
US

00-E0-85 (hex) GLOBAL MAINTECH, INC.
00E085 (base 16) GLOBAL MAINTECH, INC.
6468 CITY WEST PARKWAY
EDEN PRAIRIE MN 55344
US

00-E0-BE (hex) GENROCO INTERNATIONAL, INC.
00E0BE (base 16) GENROCO INTERNATIONAL, INC.
255 ENDERS COURT
SLINGER WI 53086
US

00-60-01 (hex) InnoSys, Inc.
006001 (base 16) InnoSys, Inc.
3095 RICHMOND PKWY #207
RICHMOND CA 94806
US

00-60-FE (hex) LYNX SYSTEM DEVELOPERS, INC.
0060FE (base 16) LYNX SYSTEM DEVELOPERS, INC.
175N NEW BOSTON STREET
WOBURN MA 01801
US

00-60-BD (hex) Enginuity Communications
0060BD (base 16) Enginuity Communications
3545 Stern Avenue
St Charles IL 60174
US

00-08-00 (hex) MULTITECH SYSTEMS, INC.

000800 (base 16) MULTITECH SYSTEMS, INC.
2205 WOODALE DRIVE
MOUNDS VIEW MN 55112
US

00-E0-68 (hex) MERRIMAC SYSTEMS INC.
00E068
(base 16) MERRIMAC SYSTEMS INC.
2144 MC COY ROAD
CARROLLTON TX 75006
US

00-E0-49 (hex) MICROWI ELECTRONIC GmbH
00E049 (base 16) MICROWI ELECTRONIC GmbH
ZUSAMSTRASSE 8
D 86165 AUGSBURG
DE

00-E0-50 (hex) EXECUTONE INFORMATION SYSTEMS, INC.
00E050 (base 16) EXECUTONE INFORMATION SYSTEMS, INC.
478 WHEELERS FARMS ROAD
MILFORD CT 06460
US

00-E0-23 (hex) TELRAD
00E023 (base 16) TELRAD
P.O. BOX 50
LOD 71100
IL

00-E0-B6 (hex) Entrada Networks
00E0B6 (base 16) Entrada Networks
9020 JUNCTION DRIVE
ANNAPOLIS JUNCTION MD 20701
US

00-E0-F4 (hex) INSIDE Technology A/S
00E0F4 (base 16) INSIDE Technology A/S
VENLIGHEDSVEJ 6
DK-2970 HOERSHOLM
DK

00-E0-A0 (hex) WILTRON CO.
00E0A0 (base 16) WILTRON CO.
490 JARVIS DRIVE
MORGAN HILL CA 95037
US

00-E0-C7 (hex) EUROTECH SRL
00E0C7 (base 16) EUROTECH SRL
VIA JACOPO LINUSSIO 1
33030
AMAROO (UD)
IT

00-60-B5 (hex) KEBA GmbH
0060B5 (base 16) KEBA GmbH
GEWERBEPARK URFAHR
A-4041 LINZ
AT

00-60-42 (hex) TKS (USA), INC.
006042 (base 16) TKS (USA), INC.
1201 COMMERCE
RICHARDSON TX 75081
US

00-60-79 (hex) Mainstream Data, Inc.
006079 (base 16) Mainstream Data, Inc.
375 Chipeta Way, Suite B
Salt Lake City UT 84108
US

00-60-9A (hex) NJK TECHNO CO.
00609A (base 16) NJK TECHNO CO.
N1-25 KAMIYASATO
KOMATSU #923
JP

00-60-2B (hex) PEAK AUDIO
00602B (base 16) PEAK AUDIO
1790 30TH STREET STE #414
BOULDER CO 80301
US

00-60-F1 (hex) EXP COMPUTER, INC.
0060F1 (base 16) EXP COMPUTER, INC.
141 EILEEN WAY
SYOSSET NY 11791
US

00-05-A8 (hex) WYLE ELECTRONICS
0005A8 (base 16) WYLE ELECTRONICS
3000 BOWERS AVENUE
SANTA CLARA CA 95051-0919
US

00-60-E6 (hex) SHOMITI SYSTEMS INCORPORATED
0060E6 (base 16) SHOMITI SYSTEMS
INCORPORATED
2099 GATEWAY PLACE - STE.#220
SAN JOSE CA 95110
US

00-60-FF (hex) QuVis, Inc.
0060FF (base 16) QuVis, Inc.
2921 SW WANAMAKER DRIVE
TOPEKA KS 66614
US

00-60-67 (hex) ACER NETXUS INC.
006067 (base 16) ACER NETXUS INC.
5F-3, 5 HSIN ANN ROAD SBIP
HSINCHU 300
TJ

00-60-9F (hex) PHAST CORPORATION
00609F (base 16) PHAST CORPORATION
79 WEST 4500 SOUTH - BLDG.#14
SALT LAKE CITY UT 84107
US

00-60-40 (hex) NETRO CORP.
006040 (base 16) NETRO CORP.
3120 SCOTT BLVD.
SANTA CLARA CA 95054
US

00-60-CC (hex) EMTRAK, INCORPORATED
0060CC (base 16) EMTRAK, INCORPORATED
7150 CAMPUS DRIVE, STE #180
COLORADO SPRINGS CO 80920
US

00-60-2C (hex) LINX Data Terminals, Inc.
00602C (base 16) LINX Data Terminals, Inc.
625 DIGITAL DRIVE-STE #100
PLANO TX 75075
US

00-60-AC (hex) RESILIENCE CORPORATION
0060AC (base 16) RESILIENCE CORPORATION
1755

EMBARCADERO ROAD-STE #120
PALO ALTO CA 94303
US

00-60-4E (hex) CYCLE COMPUTER CORPORATION, INC.
00604E (base 16) CYCLE COMPUTER CORPORATION, INC.
20245 STEVENS CREEK BLVD.
CUPERTINO CA 95014
US

00-60-AA (hex) INTELLIGENT DEVICES INC. (IDI)
0060AA (base 16) INTELLIGENT DEVICES INC. (IDI)
1718-L BELMONT AVENUE
BALTIMORE MD 21244
US

00-60-65 (hex) B&R Industrial Automation GmbH
006065 (base 16) B&R Industrial Automation GmbH
B&R Straße 1
Eggelsberg 5142
AT

00-60-5D (hex) SCANIVALVE CORP.
00605D (base 16) SCANIVALVE CORP.
1722 N. MADSON STREET
LIBERTY LAKE WA 99019
US

00-60-6F (hex) CLARION CORPORATION OF AMERICA
00606F (base 16) CLARION CORPORATION OF AMERICA
25 Commerce Drive
Allendale NJ 07401
US

00-60-14 (hex) EDEC CO., LTD.
006014 (base 16) EDEC CO., LTD.
9F OF T.O.C. BUILDING
SHINAGAWAKU, TOKYO
JP

00-60-E1 (hex) ORCKIT COMMUNICATIONS
LTD.
0060E1 (base 16) ORCKIT COMMUNICATIONS LTD.
38 NAHALAT YIZHAK STREET
TEL-AVIV 67448
IL

00-60-D2 (hex) LUCENT TECHNOLOGIES TAIWAN TELECOMMUNICATIONS CO., LTD.

0060D2 (base 16) LUCENT TECHNOLOGIES TAIWAN TELECOMMUNICATIONS CO., LTD.
#2, INNOVATION ROAD II
HSIN CHU
TW

00-60-CD (hex) VideoServer, Inc.
0060CD (base 16) VideoServer, Inc.
5 FORBES ROAD
LEXINGTON MA 02173
US

00-60-7E (hex) GIGALABS, INC.
00607E (base 16) GIGALABS, INC.
290 SANTA ANA COURT
SUNNYVALE CA 94086
US

00-60-90 (hex) Artiza Networks Inc
006090 (base 16) Artiza Networks Inc
Faret Tachikawa Center Square, 2-36-2 Akebono-cho,
Tachikawa-shi, Tokyo 190-0012
JP

00-60-30 (hex) VILLAGE TRONIC ENTWICKLUNG
006030 (base 16) VILLAGE TRONIC ENTWICKLUNG
WELLWEG 95
31157 SARSTEDT
DE

00-60-25 (hex) ACTIVE IMAGING PLC
006025 (base 16) ACTIVE IMAGING PLC
HATTORI HOUSE
MAIDENHEAD
Berkshire SL6 4UB
GB

00-60-A7 (hex) MICROSENS GmbH & CO. KG
0060A7 (base 16) MICROSENS GmbH & CO. KG
Kueferstrasse 16
D-59067 Hamm
DE

00-60-E5 (hex) FUJI AUTOMATION CO., LTD.
0060E5 (base 16) FUJI AUTOMATION CO., LTD.
3-23-10, NEGISHI
URAWA-SHI, 336 SAITAMA
US

00-60-5E (hex) LIBERTY TECHNOLOGY NETWORKING
00605E (base 16) LIBERTY TECHNOLOGY NETWORKING
P.O. BOX 11566
HATFIELD, PRETORIA 0028
ZA

00-A0-9C (hex) Xyplex, Inc.
00A09C (base 16) Xyplex, Inc.
25 FOSTER STREET
LITTLETON MA 01460
US

00-A0-0D (hex) THE PANDA PROJECT
00A00D (base 16) THE PANDA PROJECT
5201 CONGRESS AVE. - C-100
BOCA RATON FL 33487
US

00-A0-E9 (hex) ELECTRONIC RETAILING SYSTEMS INTERNATIONAL
00A0E9 (base 16) ELECTRONIC RETAILING SYSTEMS INTERNATIONAL
372 DANBURY ROAD
WILTON CT 06897-2523
US

00-A0-BE (hex) INTEGRATED CIRCUIT SYSTEMS, INC. COMMUNICATIONS GROUP
00A0BE (base 16) INTEGRATED CIRCUIT SYSTEMS, INC. COMMUNICATIONS GROUP
1271 PARKMOOR AVENUE
SAN JOSE CA 95126-3448
US

00-A0-10 (hex) SYSLOGIC DATENTECHNIK AG
00A010 (base 16) SYSLOGIC DATENTECHNIK AG
Bruggerstrasse 69
CH-5400 Baden
CH

00-A0-16 (hex) MICROPOLIS CORP.
00A016 (base 16) MICROPOLIS CORP.
21211 NORDHOFF STREET
CHATSWORTH CA 91311
US

00-A0-59 (hex) HAMILTON HALLMARK
00A059 (base 16) HAMILTON HALLMARK
2105 LUNDY AVENUE
SAN JOSE CA 95131
US

00-A0-39 (hex) ROSS TECHNOLOGY, INC.
00A039 (base 16) ROSS TECHNOLOGY, INC.
5316 HWY 290 WEST - STE. #500
AUSTIN TX 78735
US

00-A0-AD (hex) MARCONI SPA
00A0AD (base 16) MARCONI SPA
VIA NEGRONE, 1A
16153 GENOVA CORNIGLIANO
IT

00-A0-D6 (hex) SBE, Inc.
00A0D6 (base 16) SBE, Inc.
4000 Executive Parkway
San Ramon CA 94583
US

00-60-C6 (hex) DCS AG
0060C6 (base 16) DCS
AG
SALZACHSTRASS 31
D-14129 BERLIN
DE

00-60-1E (hex) SOFTLAB, INC.
00601E (base 16) SOFTLAB, INC.
P.O. BOX 8
CHIMNEY ROCK CO 81127
US

00-60-0D (hex) Digital Logic GmbH
00600D (base 16) Digital Logic GmbH
Stahlwerkstraße 25
Mudersbach 57555
DE

00-60-4A (hex) SAIC IDEAS GROUP
00604A (base 16) SAIC IDEAS GROUP
7120 COLUMBIA GATEWAY DRIVE
COLUMBIA MD 21046
US

00-A0-BD (hex) I-TECH CORP.
00A0BD (base 16) I-TECH CORP.
10200 VALLEY VIEW ROAD
EDEN PRAIRIE MN 55344

US

00-A0-48 (hex) QUESTECH, LTD.
00A048 (base 16) QUESTECH, LTD.
EASTHEATH AVENUE
BERKS, RG11 2PP
GB

00-A0-FC (hex) IMAGE SCIENCES, INC.
00A0FC (base 16) IMAGE SCIENCES, INC.
7500 INNOVATION WAY
MASON OH 45040
US

00-A0-2E (hex) BRAND COMMUNICATIONS, LTD.
00A02E (base 16) BRAND COMMUNICATIONS, LTD.
ENTERPRISE HOUSE, CHIVERS WAY,
HISTON, CAMBRIDGE CB4 4ZR
GB

00-A0-F9
(hex) BINTEC COMMUNICATIONS GMBH
00A0F9 (base 16) BINTEC COMMUNICATIONS GMBH
SUEDWESTPARK 94
90449 NUERNBERG
DE

00-A0-4D (hex) EDA INSTRUMENTS, INC.
00A04D (base 16) EDA INSTRUMENTS, INC.
4 THORNCLIFFE PARK DRIVE
M4H 1H1
CA

00-A0-86 (hex) AMBER WAVE SYSTEMS, INC.
00A086 (base 16) AMBER WAVE SYSTEMS, INC.
403 MASSACHUSETTS AVENUE
ACTON MA 01720
US

00-A0-AF (hex) WMS INDUSTRIES
00A0AF (base 16) WMS INDUSTRIES
3401 N. CALIFORNIA
CHICAGO IL 60618
US

00-A0-57 (hex) LANCOM Systems GmbH
00A057 (base 16) LANCOM Systems GmbH
Adenauer Straße 20 /B2

Würselen 52146
DE

00-A0-9F (hex) COMMVISION CORP.
00A09F (base 16) COMMVISION CORP.
510 LOGUE AVE.
MOUNTAIN VIEW CA 94043
US

00-A0-B6 (hex) SANRITZ AUTOMATION CO., LTD.
00A0B6 (base 16) SANRITZ AUTOMATION CO., LTD.
4-21 MINAMI NARUSE

00-A0-79 (hex) ALPS ELECTRIC (USA),
INC.
00A079 (base 16) ALPS ELECTRIC (USA), INC.
3553 NORTH 1ST STREET
SAN JOSE CA 95134
US

00-A0-F5 (hex) RADGUARD LTD.
00A0F5 (base 16) RADGUARD LTD.
8 HANECHOSHET STREET
TEL-AVIV 69710
IL

00-A0-CA (hex) FUJITSU DENSO LTD.
00A0CA (base 16) FUJITSU DENSO LTD.
3055 ORCHARD DRIVE
SAN JOSE CA 95134
US

00-A0-22 (hex) CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING
00A022 (base 16) CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING
UNIVERSITY OF POONA CAMPUS
GANESH KHIND, Pune - 411 008
IN

00-A0-C0 (hex) DIGITAL LINK CORP.
00A0C0 (base 16) DIGITAL LINK CORP.
217 HUMBOLDT COURT
SUNNYVALE CA 94089
US

00-A0-9D (hex) JOHNATHON FREEMAN TECHNOLOGIES
00A09D (base 16) JOHNATHON FREEMAN TECHNOLOGIES

P.O. BOX 880114
SAN FRANCISCO CA 94188
US

00-A0-6E (hex) AUSTRON, INC.
00A06E (base 16) AUSTRON, INC.
P.O. BOX 14766
AUSTIN TX 78761-4766
US

00-A0-BA
(hex) PATTON ELECTRONICS CO.
00A0BA (base 16) PATTON ELECTRONICS CO.
7622 RICKENBACKER DRIVE
GAITHERSBURG MD 20879
US

00-A0-B5 (hex) 3H TECHNOLOGY
00A0B5 (base 16) 3H TECHNOLOGY
3375 SCOTT BLVD. #336
SANTA CLARA CA 95054
US

00-A0-1E (hex) EST CORPORATION
00A01E (base 16) EST CORPORATION
120 ROYALL STREET
CANTON MA 02021
US

00-A0-62 (hex) AES PRODATA
00A062 (base 16) AES PRODATA
249 BALCATTA ROAD
WESTERN AUSTRALIA 6021
AU

00-A0-AE (hex) NUCOM SYSTEMS, INC.
00A0AE (base 16) NUCOM SYSTEMS, INC.
9F-6, NO 4, LANE
TAIWAN TAIWAN R.O.C.
TW

00-A0-76 (hex) CARDWARE LAB, INC.
00A076 (base 16) CARDWARE LAB, INC.
285 SOBRANTE WAY, STE.
SUNNYVALE CA 94086
VI

00-A0-03 (hex) Siemens Switzerland Ltd., I B T HVP

00A003 (base 16) Siemens Switzerland Ltd., I B T HVP
Building Technologies Division, International Headquarters
Zug 6301
CH

00-A0-8D
(hex) JACOMO CORPORATION
00A08D (base 16) JACOMO CORPORATION
26900 E. PINK HILL ROAD
INDEPENDENCE MO 64057
US

00-A0-8E (hex) Check Point Software Technologies
00A08E (base 16) Check Point Software Technologies
8333 Ridgepoint Dr.
Irving TX 75063
US

00-A0-A1 (hex) EPIC DATA INC.
00A0A1 (base 16) EPIC DATA INC.
7280 RIVER ROAD
CANADA V6X 1X5

00-A0-44 (hex) NTT IT CO., LTD.
00A044 (base 16) NTT IT CO., LTD.

231
JP

00-A0-11 (hex) MUTOH INDUSTRIES LTD.
00A011 (base 16) MUTOH INDUSTRIES LTD.
253 KANAGAWA-KEN,

JP

00-A0-84 (hex) Dataplex Pty Ltd
00A084 (base 16) Dataplex Pty Ltd
Ground floor,
MACQUARIE PARK NSW 2113
AU

00-A0-49 (hex) DIGITECH INDUSTRIES, INC.
00A049 (base 16) DIGITECH INDUSTRIES, INC.
PO BOX 2267
DANBURY CT 06810
US

00-A0-6B (hex) DMS DORSCH MIKROSYSTEM GMBH
00A06B (base 16) DMS DORSCH MIKROSYSTEM GMBH
HOLMLUECK
13-15

DE

00-A0-30 (hex) CAPTOR NV/SA
00A030 (base 16) CAPTOR NV/SA
DE HENE 13

BE

00-A0-DE (hex) YAMAHA CORPORATION
00A0DE (base 16) YAMAHA CORPORATION
10-1 Nakazawa-cho, Naka-ku
Hamamatsu Shizuoka 430-8650
JP

00-02-67 (hex) NODE RUNNER, INC.
000267 (base 16) NODE RUNNER, INC.
2202 N. FORBES BLVD.
TUCSON AZ 85745
US

00-20-B1 (hex) COMTECH RESEARCH INC.
0020B1 (base 16) COMTECH RESEARCH INC.
24271 TAHOE
LAGUNA NIGUEL CA 92656
US

00-20-32 (hex) ALCATEL TAISEL
002032 (base 16) ALCATEL TAISEL
4, MING SHENG STREET TU-CHENG
TAIWAN ROC
TW

00-20-E9 (hex) DANTEL
0020E9 (base 16) DANTEL
P.O. BOX 55013
FRESNO CA 93727-1388
US

00-20-22 (hex) NMS Communications
002022 (base 16) NMS Communications
100 Crossing Boulevard
Framingham MA 01702
US

00-20-AE (hex) ORNET DATA COMMUNICATION TECH.
0020AE (base 16) ORNET
DATA COMMUNICATION TECH.
P.O. BOX 323

IL

00-20-AA (hex) Ericsson Television Limited
0020AA (base 16) Ericsson Television Limited
Solution Area Media
Comines Way, Hedge End Southhampton SO 30 4DA
GB

00-20-A4 (hex) MULTIPOINT NETWORKS
0020A4 (base 16) MULTIPOINT NETWORKS
19 DAVIS DRIVE
BELMONT CA 94002-3001
US

00-20-51 (hex) Verilink Corporation
002051 (base 16) Verilink Corporation
127 Jetplex Circle
Madison AL 35758
US

00-20-3B (hex) WISDM LTD.
00203B (base 16) WISDM LTD.
ST. JOHNS INNOVATION CENTRE
ENGLAND
GB

00-20-BA (hex) CENTER FOR HIGH PERFORMANCE
0020BA (base 16) CENTER FOR HIGH PERFORMANCE
COMPUTING OF WPI
MARLBORO MA 01752
US

00-20-38 (hex) VME MICROSYSTEMS INTERNATIONAL CORPORATION
002038 (base 16) VME MICROSYSTEMS INTERNATIONAL CORPORATION
12090 S. MEMORIAL PARKWAY
HUNTSVILLE AL 35803
US

00-20-A3 (hex) Harmonic,
Inc
0020A3 (base 16) Harmonic, Inc
4300 North First Street

San Jose CA 95134
US

00-20-59 (hex) MIRO COMPUTER PRODUCTS AG
002059 (base 16) MIRO COMPUTER PRODUCTS AG
CARL MIELE STR. 4
D-38112 BRAUNSCHWEIG
DE

00-20-79 (hex) MIKRON GMBH
002079 (base 16) MIKRON GMBH
BRESLAUERSTR. 1-3
85386 ECHING
DE

00-20-05 (hex) SIMPLE TECHNOLOGY
002005 (base 16) SIMPLE TECHNOLOGY
3001 DAIMLER ROAD
SANTA ANA CA 92705
US

00-20-FA (hex) GDE SYSTEMS, INC.
0020FA (base 16) GDE SYSTEMS, INC.
P.O. BOX 85468 - BLDG.#61
SAN DIEGO CA 92186-5468
US

00-A0-F8 (hex) Zebra Technologies Inc
00A0F8 (base 16) Zebra Technologies Inc
475 Half Day Road
Lincolnshire IL 60069
US

00-20-80 (hex) SYNERGY (UK) LTD.
002080 (base 16) SYNERGY (UK) LTD.
HARTCRAN HOUSE
WATFORD HERTS. WD1 5EZ
GB

00-20-18 (hex) CIS TECHNOLOGY INC.
002018 (base 16) CIS TECHNOLOGY INC.
FL.
9-1, NO. 94, PAO CHUNG RD.
TAIPEI HSIEN
TW

00-20-98 (hex) HECTRONIC AB
002098 (base 16) HECTRONIC AB

BOX 3002
S-75003 UPPSALA
SE

00-20-FD (hex) ITV TECHNOLOGIES, INC.
0020FD (base 16) ITV TECHNOLOGIES, INC.
6800 OWENSMOUTH AVE. #230
CANOGA PARK CA 91303
US

00-20-34 (hex) ROTEC INDUSTRIEAUTOMATION GMBH
002034 (base 16) ROTEC INDUSTRIEAUTOMATION GMBH
GUTENBERGSTR. 15

DE

00-20-0C (hex) ADASTRA SYSTEMS CORP.
00200C (base 16) ADASTRA SYSTEMS CORP.
28310 INDUSTRIAL BLVD.-STE-K
HAYWARD CA 94545
US

00-20-11 (hex) CANOPUS CO., LTD.
002011 (base 16) CANOPUS CO., LTD.
KOBE HI-TECH PARK
651-22
JP

00-C0-23 (hex) TUTANKHAMON ELECTRONICS
00C023 (base 16) TUTANKHAMON ELECTRONICS
2446 ESTAND WAY
PLEASANT HILL CA 94523
US

00-C0-8B (hex) RISQ MODULAR SYSTEMS, INC.
00C08B (base 16) RISQ MODULAR SYSTEMS, INC.
39899 BALENTINE DRIVE-STE
#375
NEWARK CA 94560
US

00-20-C4 (hex) INET,INC.
0020C4 (base 16) INET,INC.
801 E. CAMPBELL-STE.#330
RICHARDSON TX 75081
US

00-20-6D (hex) DATA RACE, INC.

00206D (base 16) DATA RACE, INC.
11550 IH-10WEST STE#395
SAN ANTONIO TX 78230
US

00-20-3A (hex) DIGITAL BI0METRICS INC.
00203A (base 16) DIGITAL BI0METRICS INC.
5600 ROWLAND ROAD- STE.#205
MINNETONKA MN 55364
US

00-20-0E (hex) NSSLGlobal Technologies AS
00200E (base 16) NSSLGlobal Technologies AS
Martin Linges vei 25
Fornebu 1364
NO

00-C0-B4 (hex) MYSON TECHNOLOGY, INC.
00C0B4 (base 16) MYSON TECHNOLOGY, INC.
2F, NO. 3, INDUSTRY E. RD.IV
TAIWAN
TW

00-C0-80 (hex) NETSTAR, INC.
00C080 (base 16) NETSTAR, INC.
CEDAR BUSINESS CENTER
MINNEAPOLIS MN 55425-1235
US

00-C0-C3 (hex) ACUSON COMPUTED SONOGRAPHY
00C0C3 (base 16) ACUSON COMPUTED SONOGRAPHY
1220 CHARLESTON ROAD
MOUNTAIN
VIEW CA 94039-7393
US

00-C0-B3 (hex) COMSTAT DATACOMM CORPORATION
00C0B3 (base 16) COMSTAT DATACOMM CORPORATION
1720 SPECTRUM DRIVE
LAWRENCEVILLE GA 30243
US

00-C0-E5 (hex) GESPAC, S.A.
00C0E5 (base 16) GESPAC, S.A.
CHEMIN DES AULX 18

CH

00-C0-4D (hex) MITEC, INC.
00C04D (base 16) MITEC, INC.
BR-KAMEIDO 1 BUILDING

JP

00-20-68 (hex) ISDYNE
002068 (base 16) ISDYNE
11 ROXBURY AVENUE
NATICK MA 01760
US

00-20-C8 (hex) LARSCOM INCORPORATED
0020C8 (base 16) LARSCOM INCORPORATED
4600 PATRICK HENRY DRIVE
SANTA CLARA CA 95054
US

00-20-9D (hex) LIPPERT AUTOMATIONSTECHNIK
00209D (base 16) LIPPERT AUTOMATIONSTECHNIK
D-68165 MANNHEIM

DE

00-20-9C (hex) PRIMARY ACCESS CORP.
00209C (base 16) PRIMARY ACCESS CORP.
10080 CARROLL CANYON RD
SAN DIEGO CA 92131
US

00-20-E7 (hex) B&W NUCLEAR SERVICE COMPANY
0020E7 (base
16) B&W NUCLEAR SERVICE COMPANY
SPECIAL PRODUCTS & INTEG.SVCS.
LYNCHBURG VA 24502
US

00-20-F0 (hex) UNIVERSAL MICROELECTRONICS CO.
0020F0 (base 16) UNIVERSAL MICROELECTRONICS CO.
3, 27TH RD., TAICHUNG IND.PARK
TAIWAN TAIWAN R.O.C.
TW

00-20-89 (hex) T3PLUS NETWORKING, INC.
002089 (base 16) T3PLUS NETWORKING, INC.
2840 SAN TOMAS EXPRESSWAY
SANTA CLARA CA 95051
US

00-20-F5 (hex) PANDATEL AG
0020F5 (base 16) PANDATEL AG
FASANENWEG 25

DE

00-20-74 (hex) SUNGWOON SYSTEMS
002074 (base 16) SUNGWOON SYSTEMS
YUSUN BLDG.44-4
KOREA
KR

00-20-3C (hex) EUROTIME AB
00203C (base 16) EUROTIME AB
BOX 277

SE

00-20-28 (hex) WEST EGG SYSTEMS, INC.
002028 (base 16) WEST EGG SYSTEMS, INC.
65 HIGH RIDGE ROAD-STE.#286
STAMFORD CT 06905
US

00-20-61 (hex) GarrettCom, Inc.
002061 (base 16) GarrettCom, Inc.
47823 Westinghouse Dr.
Fremont
CA 94539
US

00-20-DC (hex) DENSITRON TAIWAN LTD.
0020DC (base 16) DENSITRON TAIWAN LTD.
KYOWA NANABANKAN 5F

JP

00-20-48 (hex) Marconi Communications
002048 (base 16) Marconi Communications
1000 Fore Drive
Warrendale PA 15086-7502
US

00-C0-0D (hex) ADVANCED LOGIC RESEARCH, INC.
00C00D (base 16) ADVANCED LOGIC RESEARCH, INC.
9401 JERONIMO
IRVINE CA 92618

US

00-C0-81 (hex) METRODATA LTD.
00C081 (base 16) METRODATA LTD.
BLENHEIM HOUSE
TW20 8RY TW20 8RY ENGLAND
GB

00-C0-3B (hex) MULTIACCESS COMPUTING CORP.
00C03B (base 16) MULTIACCESS COMPUTING CORP.
5350 HOLLISTER AVE., STE.
SANTA BARBARA CA 93111
US

00-C0-82 (hex) MOORE PRODUCTS CO.
00C082 (base 16) MOORE PRODUCTS CO.
SUMNEYTOWN PIKE
SPRING HOUSE PA 19477
US

00-C0-99 (hex) YOSHIKI INDUSTRIAL CO.,LTD.
00C099 (base 16) YOSHIKI INDUSTRIAL CO.,LTD.
1-38 MATSUGASAKI 2-CHOME
992
JP

00-C0-45
(hex) ISOLATION SYSTEMS, LTD.
00C045 (base 16) ISOLATION SYSTEMS, LTD.
26 SIX POINT ROAD
CANADA M8Z 2W9
CA

00-70-B3 (hex) DATA RECALL LTD.
0070B3 (base 16) DATA RECALL LTD.
SONDES PLACE
UNITED KINGDOM
GB

00-E6-D3 (hex) NIXDORF COMPUTER CORP.
00E6D3 (base 16) NIXDORF COMPUTER CORP.
2520 MISSION COLLEGE ROAD
SANTA CLARA CA 95054
US

00-70-B0 (hex) M/A-COM INC. COMPANIES
0070B0 (base 16) M/A-COM INC. COMPANIES
11717 EXPLORATION LANE

GERMANTOWN MD 20767
US

00-C0-1F (hex) S.E.R.C.E.L.
00C01F (base 16) S.E.R.C.E.L.
B.P. 439

FR

00-C0-A1 (hex) TOKYO DENSHI SEKEI CO.
00C0A1 (base 16) TOKYO DENSHI SEKEI CO.
255-1 RENKOJI, TAMA-SHI
JAPAN 206
JP

00-C0-2E (hex) NETWIZ
00C02E (base 16) NETWIZ
26 GOLOMB STREET

IL

00-C0-47 (hex) UNIMICRO SYSTEMS, INC.
00C047 (base 16) UNIMICRO SYSTEMS, INC.
44382 S. GRIMMER BLVD.
FREMONT
CA 94538
US

00-C0-84 (hex) DATA LINK CORP. LTD.
00C084 (base 16) DATA LINK CORP. LTD.
3-15-3 MIDORICHO

JP

00-C0-41 (hex) DIGITAL TRANSMISSION SYSTEMS
00C041 (base 16) DIGITAL TRANSMISSION SYSTEMS
4830 RIVER GREEN PARKWAY
DULUTH GA 30136
US

00-C0-B6 (hex) HVE, Inc.
00C0B6 (base 16) HVE, Inc.
Suite 2, 100 Executive Court
Waxahachie TX 75165
US

00-C0-7A (hex) PRIVA B.V.
00C07A (base 16) PRIVA B.V.

P.O. BOX 18

NL

00-C0-6D (hex) BOCA RESEARCH, INC.
00C06D (base 16) BOCA RESEARCH, INC.
6401 CONGRESS AVENUE
BOCA RATON FL 33487
US

00-C0-EA (hex) ARRAY TECHNOLOGY LTD.
00C0EA (base 16) ARRAY TECHNOLOGY LTD.
145 FRIMLEY ROAD
ENGLAND GU15 2PS
GB

00-C0-09 (hex) KT TECHNOLOGY (S) PTE LTD
00C009 (base 16) KT TECHNOLOGY (S) PTE LTD
KT BUILDING
SINGAPORE 0511
SG

00-60-86 (hex) LOGIC REPLACEMENT TECH. LTD.
006086
(base 16) LOGIC REPLACEMENT TECH. LTD.
14 ARKWRIGHT ROAD
UNITED KINGDOM
GB

00-C0-59 (hex) DENSO CORPORATION
00C059 (base 16) DENSO CORPORATION
1-1, Showa-cho,
Kariya-shi, Aichi 448-8661
JP

00-C0-F1 (hex) SHINKO ELECTRIC CO., LTD.
00C0F1 (base 16) SHINKO ELECTRIC CO., LTD.
COMPUTER SYSTEM DIVISION
JAPAN 441-31
JP

00-C0-DC (hex) EOS TECHNOLOGIES, INC.
00C0DC (base 16) EOS TECHNOLOGIES, INC.
3945 FREEDOM CIRCLE, STE.#770
SANTA CLARA CA 95054
US

00-C0-3C (hex) TOWER TECH S.R.L.

00C03C (base 16) TOWER TECH S.R.L.
VIA RIDOLFI 6,8

IT

00-C0-1D (hex) GRAND JUNCTION NETWORKS, INC.
00C01D (base 16) GRAND JUNCTION NETWORKS, INC.
3101 WHIPPLE RD., #27
UNION CITY CA 94587
US

00-C0-72 (hex) KNX LTD.
00C072 (base 16) KNX LTD.
HOLLINGWOOD HOUSE
LS21 3HA UNITED KINGDOM
GB

00-C0-AE (hex) TOWERCOM CO. INC. DBA PC HOUSE
00C0AE (base 16) TOWERCOM
CO. INC. DBA PC HOUSE
841 E. ARTESIA BLVD.
CARSON CA 90746
US

00-C0-D6 (hex) J1 SYSTEMS, INC.
00C0D6 (base 16) J1 SYSTEMS, INC.
3 DUNWOODY PARK-STE.#103
ATLANTA GA 30338
US

00-C0-F6 (hex) CELAN TECHNOLOGY INC.
00C0F6 (base 16) CELAN TECHNOLOGY INC.
NO. 101, MIN-HSIANG ST.
TAIWAN TAIWAN R.O.C.
CN

00-C0-C2 (hex) INFINITE NETWORKS LTD.
00C0C2 (base 16) INFINITE NETWORKS LTD.
19 BROOKSIDE ROAD, OXHEY
UNITED KINGDOM
GB

00-C0-AF (hex) TEKLOGIX INC.
00C0AF (base 16) TEKLOGIX INC.
2100 MEADOWVALE BOULEVARD
CANADA L5N 7J9
CA

00-C0-70 (hex) SECTRA SECURE-TRANSMISSION AB
00C070 (base 16) SECTRA SECURE-TRANSMISSION AB
TEKNIKRINGEN 2

SE

00-C0-07 (hex) PINNACLE DATA SYSTEMS, INC.
00C007 (base 16) PINNACLE DATA SYSTEMS, INC.
1350 WEST FIFTH AVENUE
COLUMBUS OH 43212
US

00-C0-F8 (hex) ABOUT COMPUTING INC.
00C0F8 (base 16) ABOUT
COMPUTING INC.
P.O. BOX 172
BELMONT MA 02178
US

00-C0-78 (hex) COMPUTER SYSTEMS ENGINEERING
00C078 (base 16) COMPUTER SYSTEMS ENGINEERING
46791 FREMONT BLVD.
FREMONT CA 94538
US

00-C0-9A (hex) PHOTONICS CORPORATION
00C09A (base 16) PHOTONICS CORPORATION
2940 NORTH FIRST STREET
SAN JOSE CA 95123-2021
US

00-C0-1A (hex) COROMETRICS MEDICAL SYSTEMS
00C01A (base 16) COROMETRICS MEDICAL SYSTEMS
61 BARNES PARK ROAD NORTH
WALLINGFORD CT 06492-0333
US

00-C0-68 (hex) HME Clear-Com LTD.
00C068 (base 16) HME Clear-Com LTD.
7400 Beach Drive
Cambridgeshire CB25 9TP
GB

00-C0-D8 (hex) UNIVERSAL DATA SYSTEMS
00C0D8 (base 16) UNIVERSAL DATA SYSTEMS
5000 BRADFORD DRIVE
HUNTSVILLE AL 35805-1993
US

00-40-36 (hex) Minim Inc.
004036 (base 16) Minim Inc.
848 Elm Street
Manchester NH 03101
US

00-40-16 (hex) ADC - Global Connectivity Solutions Division
004016
(base 16) ADC - Global Connectivity Solutions Division
P.O. Box 1101
Minneapolis MN 55440-1101
US

00-40-6A (hex) KENTEK INFORMATION SYSTEMS,INC
00406A (base 16) KENTEK INFORMATION SYSTEMS,INC
2945 WILDERNESS PLACE
BOULDER CO 80301
US

00-40-0A (hex) PIVOTAL TECHNOLOGIES, INC.
00400A (base 16) PIVOTAL TECHNOLOGIES, INC.
100 W. RINCON AVENUE-STE #211
CAMPBELL CA 95008
US

00-40-82 (hex) LABORATORY EQUIPMENT CORP.
004082 (base 16) LABORATORY EQUIPMENT CORP.
1-7-3 MINATOMACHI
300
JP

00-C0-01 (hex) DIATEK PATIENT MANAGMENT
00C001 (base 16) DIATEK PATIENT MANAGMENT
SYSTEMS, INC.
SAN DIEGO CA 92121-1723
US

00-C0-F4 (hex) INTERLINK SYSTEM CO., LTD.
00C0F4 (base 16) INTERLINK SYSTEM CO., LTD.
INTERLINK B/D, 476-20
KOREA
KR

00-C0-E2 (hex) CALCOMP, INC.
00C0E2 (base 16) CALCOMP, INC.
2411 W. LAPALMA AVENUE
ANAHEIM CA 92803-3250

US

00-C0-7B
(hex) ASCEND COMMUNICATIONS, INC.
00C07B (base 16) ASCEND COMMUNICATIONS, INC.
1701 HARBOR BAY PARKWAY
ALAMEDA CA 94502
US

00-C0-98 (hex) CHUNTEX ELECTRONIC CO., LTD.
00C098 (base 16) CHUNTEX ELECTRONIC CO., LTD.
6F., NO.2, ALLEY 6, LANE 235
TAIWAN TAIWAN R.O.C.
TW

00-40-A8 (hex) IMF INTERNATIONAL LTD.
0040A8 (base 16) IMF INTERNATIONAL LTD.
NO.5 2/F KINGSFORD IND. CENTRE
HONG KONG
HK

00-40-70 (hex) INTERWARE CO., LTD.
004070 (base 16) INTERWARE CO., LTD.
7F KUDAN NEW CENTRAL BLDG.,
TOKYO 102 TOKYO 102
JP

00-80-3B (hex) APT COMMUNICATIONS, INC.
00803B (base 16) APT COMMUNICATIONS, INC.
9607 DR. PERRY ROAD
IJAMSVILLE MD 21754
US

00-80-6A (hex) ERI (EMPAC RESEARCH INC.)
00806A (base 16) ERI (EMPAC RESEARCH INC.)
47560 SEABRIDGE DRIVE
FREMONT CA 94538
US

00-C0-A8 (hex) GVC CORPORATION
00C0A8 (base 16) GVC CORPORATION
1961 CONCOURSE DRIVE-STE
SAN
JOSE CA 95131
US

00-40-99 (hex) NEWGEN SYSTEMS CORP.
004099 (base 16) NEWGEN SYSTEMS CORP.

17580 NEWHOPE STREET
FOUNTAIN VALLEY CA 92708
US

00-40-11 (hex) ANDOVER CONTROLS CORPORATION
004011 (base 16) ANDOVER CONTROLS CORPORATION
300 BRICKSTONE SQUARE
ANDOVER MA 01810
US

00-40-A1 (hex) ERGO COMPUTING
0040A1 (base 16) ERGO COMPUTING
ONE INTERCONTINENTAL WAY
PEABODY MA 01960
US

00-40-81 (hex) MANNESMANN SCANGRAPHIC GMBH
004081 (base 16) MANNESMANN SCANGRAPHIC GMBH
RISSENER STRASSE 112-114

DE

00-C0-F7 (hex) ENGAGE COMMUNICATION, INC.
00C0F7 (base 16) ENGAGE COMMUNICATION, INC.
9053 SOQUEL DRIVE
APTOS CA 95003-4034
US

00-C0-8C (hex) PERFORMANCE TECHNOLOGIES, INC.
00C08C (base 16) PERFORMANCE TECHNOLOGIES, INC.
315 SCIENCE PARKWAY
ROCHESTER NY 14620
US

00-C0-BE (hex) ALCATEL - SEL
00C0BE (base 16) ALCATEL - SEL
LORENZ
STR

DE

00-C0-6E (hex) HAFT TECHNOLOGY, INC.
00C06E (base 16) HAFT TECHNOLOGY, INC.
DAINI-DOHO BLDG.
305
JP

00-C0-8A (hex) Lauterbach GmbH

00C08A (base 16) Lauterbach GmbH
Altlaufstraße 40
Höhenkirchen-Siegertsbrunn 85635
DE

00-40-B7 (hex) STEALTH COMPUTER SYSTEMS
0040B7 (base 16) STEALTH COMPUTER SYSTEMS
2341 REGINA CT.
SANTA CLARA CA 95054
US

00-40-AC (hex) SUPER WORKSTATION, INC.
0040AC (base 16) SUPER WORKSTATION, INC.
2190 PARAGON DRIVE
SAN JOSE CA 95131
US

10-00-5A (hex) IBM Corp
10005A (base 16) IBM Corp
3039 E Cornwallis Road
Research Triangle Park NC 27709-2195
US

00-40-F1 (hex) CHUO ELECTRONICS CO., LTD.
0040F1 (base 16) CHUO ELECTRONICS CO., LTD.
1-9-9, MOTOHONGO-CHO

JP

00-40-A9 (hex) DATACOM INC.
0040A9 (base 16) DATACOM INC.
146 HIGHWAY ROUTE 34 - STE 250
HOLMDEL NJ 07733
US

00-40-E3 (hex) QUIN
SYSTEMS LTD
0040E3 (base 16) QUIN SYSTEMS LTD
OAKLANDS BUSINESS CENTRE
UNITED KINGDOM
GB

00-40-91 (hex) PROCOMP INDUSTRIA ELETRONICA
004091 (base 16) PROCOMP INDUSTRIA ELETRONICA
AV. KENKITI SIMOMOTO, 767

BR

00-40-E0 (hex) ATOMWIDE LTD.
0040E0 (base 16) ATOMWIDE LTD.
23 THE GREENWAY
UNITED KINGDOM
GB

00-40-D1 (hex) FUKUDA DENSHI CO., LTD.
0040D1 (base 16) FUKUDA DENSHI CO., LTD.
R & D DEPARTMENT NO. 1

JP

00-40-69 (hex) LEMCOM SYSTEMS, INC.
004069 (base 16) LEMCOM SYSTEMS, INC.
2104 WEST PEORIA AVENUE
PHOENIX AZ 85029
US

00-40-3B (hex) SYNERJET INTERNATIONAL CORP.
00403B (base 16) SYNERJET INTERNATIONAL CORP.
5F, NO 35, KUANG FU S. ROAD
TAIWAN R. O. C.
TW

00-40-8A (hex) TPS TELEPROCESSING SYS. GMBH
00408A (base 16) TPS TELEPROCESSING SYS. GMBH
SCHWADERMUCHLSTRASSE 4-8

DE

00-40-FD (hex) LXE
0040FD (base 16) LXE
303
RESEARCH DRIVE
NORCROSS GA 30092
US

00-40-43 (hex) Nokia Siemens Networks GmbH & Co. KG.
004043 (base 16) Nokia Siemens Networks GmbH & Co. KG.
Werner-von-Siemens Straße 2-6
Bruchsal Baden-Württemberg 76646
DE

00-40-EA (hex) PLAIN TREE SYSTEMS INC
0040EA (base 16) PLAIN TREE SYSTEMS INC
CHIEF EXECTUVIE OFFICER

CA

00-40-14 (hex) COMSOFT GMBH
004014 (base 16) COMSOFT GMBH
WACHHAUSSTR. 5A

DE

00-40-00 (hex) PCI COMPONENTES DA AMZONIA LTD
004000 (base 16) PCI COMPONENTES DA AMZONIA LTD
RUA JOSEF KRYSS
01140 BRASIL
BR

00-40-FA (hex) MICROBOARDS, INC.
0040FA (base 16) MICROBOARDS, INC.
31-8, TAKASECHO,FUNABASHI-CITY
CHIBA 273 CHIBA 273
JP

00-40-3F (hex) SSANGYONG COMPUTER SYSTEMS
00403F (base 16) SSANGYONG COMPUTER SYSTEMS
CORPORATION
KOREA 100-705
KR

00-80-38 (hex) DATA RESEARCH & APPLICATIONS
008038 (base 16) DATA RESEARCH
& APPLICATIONS
9041 EXECUTIVE PARK DR.
KNOXVILLE TN 37923-4609
US

00-80-5E (hex) LSI LOGIC CORPORATION
00805E (base 16) LSI LOGIC CORPORATION
1551 MCCARTHY BOULEVARD
MILPITAS CA 95035
US

00-80-60 (hex) NETWORK INTERFACE CORPORATION
008060 (base 16) NETWORK INTERFACE CORPORATION
15019 WEST 95 STREET
LENEXA KS 66215
US

00-80-C3 (hex) BICC INFORMATION SYSTEMS & SVC
0080C3 (base 16) BICC INFORMATION SYSTEMS & SVC
500 CAPABILITY GREEN, LUTON
ENGLAND LU1 3LT

GB

00-80-44 (hex) SYSTECH COMPUTER CORP.
008044 (base 16) SYSTECH COMPUTER CORP.
6465 NANCY RIDGE DRIVE
SAN DIEGO CA 92121
US

00-80-06 (hex) COMPUADD CORPORATION
008006 (base 16) COMPUADD CORPORATION
ENGINEERING
AUSTIN TX 78727
US

00-80-28 (hex) TRADPOST (HK) LTD
008028 (base 16) TRADPOST (HK) LTD
5/F, STAR CENTRE
HONG KONG
HK

00-80-61 (hex) LITTON SYSTEMS, INC.
008061 (base
16) LITTON SYSTEMS, INC.
M/S 44-20
AGOURA HILLS CA 91301-0500
US

00-80-F5 (hex) Quantel Ltd
0080F5 (base 16) Quantel Ltd
Turnpike Road
Newbury Berkshire RG14 2NX
GB

00-80-B9 (hex) ARCHE TECHNOLIGIES INC.
0080B9 (base 16) ARCHE TECHNOLIGIES INC.
48502 KATO ROAD
FREMONT CA 94538
US

00-80-A7 (hex) Honeywell International Inc
0080A7 (base 16) Honeywell International Inc
Vancouver Center of Excellence
North Vancouver V7J 3S4
CA

00-40-6C (hex) COPERNIQUE
00406C (base 16) COPERNIQUE
6, MAIL DE L'EUROPE BP 25

FR

00-40-75 (hex) Tattile SRL
004075 (base 16) Tattile SRL
11-12 NORTHFIELD PROSPECT
UNITED KINGDOM
GB

00-40-53 (hex) AMPRO COMPUTERS
004053 (base 16) AMPRO COMPUTERS
990 ALMONDOR AVENUE
SUNNYVALE CA 94086
US

00-40-5E (hex) NORTH HILLS ISRAEL
00405E (base 16) NORTH HILLS ISRAEL
P.O. BOX 1280

IL

00-40-A7
(hex) ITAUTEC PHILCO S.A.
0040A7 (base 16) ITAUTEC PHILCO S.A.
GRUPO ITAUTEC PHILCO

BR

00-40-64 (hex) KLA INSTRUMENTS CORPORATION
004064 (base 16) KLA INSTRUMENTS CORPORATION
160 RIO ROBLES
SAN JOSE CA 95161-9055
US

00-40-5A (hex) GOLDSTAR INFORMATION & COMM.
00405A (base 16) GOLDSTAR INFORMATION & COMM.
533, HOGAE-DONG, ANYANG-SHI
KOREA
KR

00-40-13 (hex) NTT DATA COMM. SYSTEMS CORP.
004013 (base 16) NTT DATA COMM. SYSTEMS CORP.
DEVELOPMENT HEADQUARTERS
TOKYO 135 TOKYO 135
JP

00-40-0C (hex) GENERAL MICRO SYSTEMS, INC.
00400C (base 16) GENERAL MICRO SYSTEMS, INC.

P.O. BOX 3689
RANCHO CUCAMONGA CA 91729
US

00-40-63 (hex) VIA TECHNOLOGIES, INC.
004063 (base 16) VIA TECHNOLOGIES, INC.
5020 BRANDIN COURT
FREMONT CA 94538
US

00-80-9B (hex) JUSTSYSTEM CORPORATION
00809B (base 16) JUSTSYSTEM CORPORATION
3-46 OKINOHAMAHIGASHI

JP

00-80-8A
(hex) SUMMIT MICROSYSTEMS CORP.
00808A (base 16) SUMMIT MICROSYSTEMS CORP.
710 LAKEWAY-STE.#150
SUNNYVALE CA 940867
US

00-80-49 (hex) NISSIN ELECTRIC CO., LTD.
008049 (base 16) NISSIN ELECTRIC CO., LTD.
47, UMEZU - TAKASE - CHO

JP

00-80-C1 (hex) LANEX CORPORATION
0080C1 (base 16) LANEX CORPORATION
10727 TUCKER STREET
BELTSVILLE MD 20705
US

00-80-BC (hex) HITACHI ENGINEERING CO., LTD
0080BC (base 16) HITACHI ENGINEERING CO., LTD
4-8-26, OMIKACHO

JP

00-80-7C (hex) FIBERCOM, INC.
00807C (base 16) FIBERCOM, INC.
3353 ORANGE AVENUE NE
ROANOKE VA 24012
US

00-80-91 (hex) TOKYO ELECTRIC CO.,LTD

008091 (base 16) TOKYO ELECTRIC CO.,LTD
10-14 UCHIKANDA
TOKYO JAPAN 101
JP

00-80-D4 (hex) CHASE RESEARCH LTD.
0080D4 (base 16) CHASE RESEARCH LTD.
7 CHINEHAM BUSINESS PARK
ENGLAND
GB

00-80-3D (hex) SURIGIKEN CO., LTD.
00803D
(base 16) SURIGIKEN CO., LTD.
YOUTH BLDG, 4-1-9 SHINJUKU

JP

00-80-8B (hex) DACOLL LIMITED
00808B (base 16) DACOLL LIMITED
DACOLL HOUSE, GARDNERS LANE
SCOTLAND EH48 1TP
GB

00-80-CB (hex) FALCO DATA PRODUCTS
0080CB (base 16) FALCO DATA PRODUCTS
440 POTRERO AVENUE
SUNNYVALE CA 94086-4196
US

00-80-1E (hex) XINETRON, INC.
00801E (base 16) XINETRON, INC.
2330 B. WALSH AVE.
SANTA CLARA CA 95051
US

00-80-E2 (hex) T.D.I. CO., LTD.
0080E2 (base 16) T.D.I. CO., LTD.
DEVELOPMENT DIV. #3 FUJI BLDG

JP

00-80-36 (hex) REFLEX MANUFACTURING SYSTEMS
008036 (base 16) REFLEX MANUFACTURING SYSTEMS
UNIT D, THE FLEMING CENTRE,
ENGLAND
GB

00-80-83 (hex) AMDAHL
008083 (base 16) AMDAHL
1250 EAST ARQUES AVENUE
SUNNYVALE CA 94088-3470
US

00-80-4D (hex) CYCLONE MICROSYSTEMS, INC.
00804D (base 16) CYCLONE MICROSYSTEMS, INC.
25 SCIENCE
PARK
NEW HAVEN CT 06511
US

00-80-0B (hex) CSK CORPORATION
00800B (base 16) CSK CORPORATION
18F MATSUSHITA IMP BLDG,
JAPAN 540
JP

00-80-07 (hex) DLOG NC-SYSTEME
008007 (base 16) DLOG NC-SYSTEME
WERNER-VON-SIEMENS STRASSE 13
GERMANY

00-80-62 (hex) INTERFACE CO.
008062 (base 16) INTERFACE CO.
8-26 OZU 5-CHOME MINAMI-KU

JP

00-80-B2 (hex) NETWORK EQUIPMENT TECHNOLOGIES
0080B2 (base 16) NETWORK EQUIPMENT TECHNOLOGIES
6900 PASEO PADRE PARKWAY
FREMONT CA 94555
US

00-80-76 (hex) MCNC
008076 (base 16) MCNC
P.O. BOX 12889
RTP NC 27709
US

00-80-9D (hex) Commscraft Ltd.
00809D (base 16) Commscraft Ltd.
PO BOX 160

AU

00-80-F4 (hex) TELEMECANIQUE ELECTRIQUE
0080F4 (base 16) TELEMECANIQUE ELECTRIQUE
33 BIS AVENUE,

FR

00-80-DF (hex) ADC CODENOLL TECHNOLOGY CORP.
0080DF (base 16) ADC CODENOLL TECHNOLOGY CORP.
200
CORPORATE BLVD. SO.
YONKERS NY 10701
US

00-80-22 (hex) SCAN-OPTICS
008022 (base 16) SCAN-OPTICS
201 TECHNOLOGY DRIVE
IRVINE CA 92718
US

00-00-CD (hex) Allied Telesis Labs Ltd
0000CD (base 16) Allied Telesis Labs Ltd
27 Nazareth Avenue
Middleton Christchurch 8024
NZ

00-80-18 (hex) KOBE STEEL, LTD.
008018 (base 16) KOBE STEEL, LTD.
KOBE ISUZU RECRUIT BLDG.

JP

00-00-B2 (hex) TELEVIDEO SYSTEMS, INC.
0000B2 (base 16) TELEVIDEO SYSTEMS, INC.
550 E. BROKAW ROAD
SAN JOSE CA 95161-9048
US

00-00-EE (hex) NETWORK DESIGNERS, LTD.
0000EE (base 16) NETWORK DESIGNERS, LTD.
UNIT 1A, HORNBEAM PARK
UNITED KINGDOM HG2 8QT
GB

00-00-E5 (hex) SIGMEX LTD.
0000E5 (base 16) SIGMEX LTD.
SIGMA HOUSE
RH12 4UZ ENGLAND

GB

00-00-89 (hex) CAYMAN SYSTEMS INC.
000089 (base 16) CAYMAN SYSTEMS INC.
26 LANSDOWNE STREET
CAMBRIDGE MA 02139
US

00-00-FF
(hex) CAMTEC ELECTRONICS LTD.
0000FF (base 16) CAMTEC ELECTRONICS LTD.
101 VAUGHAN WAY
ENGLAND
GB

00-00-B7 (hex) DOVE COMPUTER CORPORATION
0000B7 (base 16) DOVE COMPUTER CORPORATION
1200 NORTH 23RD STREET
WILMINGTON NC 28405
US

00-00-F2 (hex) SPIDER COMMUNICATIONS
0000F2 (base 16) SPIDER COMMUNICATIONS
7491 BRIAR ROAD

CA

00-80-68 (hex) YAMATECH SCIENTIFIC LTD.
008068 (base 16) YAMATECH SCIENTIFIC LTD.
1255 LAIRD, SUITE 260

CA

00-80-A8 (hex) VITACOM CORPORATION
0080A8 (base 16) VITACOM CORPORATION
1330 CHARLESTON ROAD
MOUNTAIN VIEW CA 94043
US

00-80-33 (hex) EMS Aviation, Inc.
008033 (base 16) EMS Aviation, Inc.
121 WHITTENDALE DRIVE
MOORESTOWN NJ 08057
US

00-80-DD (hex) GMX INC/GIMIX
0080DD (base 16) GMX INC/GIMIX
3223 ARNOLD LANE

NORTHBROOK IL 60062-2406
US

00-00-DC (hex) HAYES MICROCOMPUTER PRODUCTS
0000DC
(base 16) HAYES MICROCOMPUTER PRODUCTS
P.O. BOX 105203
ATLANTA GA 30348
US

00-00-63 (hex) BARCO CONTROL ROOMS GMBH
000063 (base 16) BARCO CONTROL ROOMS GMBH
An der Rossweid 5
Karlsruhe D-76229
DE

00-00-4E (hex) AMPEX CORPORATION
00004E (base 16) AMPEX CORPORATION
581 CONFERENCE PLACE
GOLDEN CO 80401
US

00-00-C2 (hex) INFORMATION PRESENTATION TECH.
0000C2 (base 16) INFORMATION PRESENTATION TECH.
23801 CALABASAS ROAD
CALABASAS CA 91302
US

00-00-FC (hex) MEIKO
0000FC (base 16) MEIKO
650 AZTEC WEST
UNITED KINGDOM
GB

00-00-DB (hex) British Telecommunications plc
0000DB (base 16) British Telecommunications plc
81 New Gate St
England
GB

00-00-C1 (hex) Madge Ltd.
0000C1 (base 16) Madge Ltd.
Madge House
Maindenhead Berkshire SL6 2HP
GB

00-00-F6 (hex) APPLIED MICROSYSTEMS CORP.
0000F6 (base 16) APPLIED MICROSYSTEMS CORP.

5020
148 AVENUE, N.E.
REDMOND WA 98073-9702
US

00-80-B4 (hex) SOPHIA SYSTEMS
0080B4 (base 16) SOPHIA SYSTEMS
3337 KIFER ROAD
SANTA CLARA CA 95051
US

00-80-7F (hex) DY-4 INCORPORATED
00807F (base 16) DY-4 INCORPORATED
333 PALLADIUM DRIVE, MS 312

CA

00-00-BD (hex) RYOSEI, Ltd.
0000BD (base 16) RYOSEI, Ltd.
16-4, kitahatsushima-cho
Amagasaki-shi Hyogo 660-0834
JP

00-00-2E (hex) SOCIETE EVIRA
00002E (base 16) SOCIETE EVIRA
ZONE PORTUAIRE DE BREGAILLON

FR

00-00-3F (hex) SYNTREX, INC.
00003F (base 16) SYNTREX, INC.
246 INDUSTRIAL WAY WEST
EATONTOWN NJ 07724
US

00-00-8E (hex) SOLBOURNE COMPUTER, INC.
00008E (base 16) SOLBOURNE COMPUTER, INC.
1900 PIKE ROAD
LONGMONT COLORADO 80501
US

00-80-FB (hex) BVM LIMITED
0080FB (base 16) BVM LIMITED
Lakeside House, Brickyard Road,
Swanmore SOUTHAMPTON SO32 2SA
GB

00-80-2D (hex) XYLOGICS

INC
00802D (base 16) XYLOGICS INC
53 THIRD AVENUE
BURLINGTON MA 01803
US

00-00-6D (hex) CRAY COMMUNICATIONS, LTD.
00006D (base 16) CRAY COMMUNICATIONS, LTD.
P.O. BOX 254, CAXTON WAY
UNITED KINGDOM
GB

00-00-DA (hex) ATEX
0000DA (base 16) ATEX
15 CROSBY DRIVE
BEDFORD MA 01730
US

00-00-CC (hex) DENSAN CO., LTD.
0000CC (base 16) DENSAN CO., LTD.
1-23-11, KAMITAKAIDO

JP

00-00-A0 (hex) SANYO Electric Co., Ltd.
0000A0 (base 16) SANYO Electric Co., Ltd.
5-5, Keihan-hondori 2-chome,
Moriguchi City Osaka 570-8677
JP

00-00-C0 (hex) WESTERN DIGITAL CORPORATION
0000C0 (base 16) WESTERN DIGITAL CORPORATION
8105 IRVINE CENTER DRIVE
IRVINE CA 92718
US

00-00-33 (hex) EGAN MACHINERY COMPANY
000033 (base 16) EGAN MACHINERY COMPANY
SOUTH ADAMSVILLE ROAD
SOMMERVILLE NJ 08876
US

00-00-9D (hex) LOCUS COMPUTING CORPORATION
00009D (base
16) LOCUS COMPUTING CORPORATION
9800 LA CIENEGA
INGLEWOOD CA 90301
US

00-00-FD (hex) HIGH LEVEL HARDWARE
0000FD (base 16) HIGH LEVEL HARDWARE
PO BOX 170 WINDMILL ROAD
ENGLAND
GB

00-00-A4 (hex) ACORN COMPUTERS LIMITED
0000A4 (base 16) ACORN COMPUTERS LIMITED
FULBOURN ROAD, CHERRY HINTON
ENGLAND
GB

00-00-DD (hex) TCL INCORPORATED
0000DD (base 16) TCL INCORPORATED
41829 ALBRAE STREET
FREMONT CA 94538
US

00-00-AE (hex) DASSAULT ELECTRONIQUE
0000AE (base 16) DASSAULT ELECTRONIQUE
55, QUAI MARCEL DASSAULT

FR

00-00-65 (hex) Network General Corporation
000065 (base 16) Network General Corporation
178 E Tsaman Dr
San Jose CA 95134
US

00-00-11 (hex) NORMEREL SYSTEMES
000011 (base 16) NORMEREL SYSTEMES
58 RUE POTTIER

FR

00-00-61 (hex) GATEWAY COMMUNICATIONS
000061 (base 16) GATEWAY COMMUNICATIONS
2941 ALTON AVENUE
IRVINE
CA 92714
US

00-00-EA (hex) UPNOD AB
0000EA (base 16) UPNOD AB
BOX 23051

SE

00-00-43 (hex) MICRO TECHNOLOGY
000043 (base 16) MICRO TECHNOLOGY
4905 EAST LAPALMA
ANAHEIM CA 92807
US

00-00-17 (hex) Oracle
000017 (base 16) Oracle
4200 Network Circle
Santa Clara CA 95054
US

00-00-77 (hex) INTERPHASE CORPORATION
000077 (base 16) INTERPHASE CORPORATION
13800 SENLAC
DALLAS TX 75234
US

00-00-A2 (hex) Bay Networks
0000A2 (base 16) Bay Networks
PO Box 58185
Santa Clara CA 95052-8185
US

00-00-EC (hex) MICROPROCESS
0000EC (base 16) MICROPROCESS
97 BIS, RUE DE COLOMBES

FR

00-00-10 (hex) SYTEK INC.
000010 (base 16) SYTEK INC.
1225 CHARLESTON ROAD
MOUNTAIN VIEW CA 94043
US

00-00-C4 (hex) WATERS DIV. OF MILLIPORE
0000C4 (base 16) WATERS DIV. OF MILLIPORE
34 MAPLE STREET
MILFORD MA 01757
US

00-00-EB (hex) MATSUSHITA
COMM. IND. CO. LTD.
0000EB (base 16) MATSUSHITA COMM. IND. CO. LTD.
3-1 4-CHOME

JP

00-00-99 (hex) MTX, INC.
000099 (base 16) MTX, INC.
3301 TERMINAL DRIVE
RALEIGH NC 27604
US

00-00-28 (hex) PRODIGY SYSTEMS CORPORATION
000028 (base 16) PRODIGY SYSTEMS CORPORATION
2601 CASEY DRIVE
MOUNTAIN VIEW CA 94043
US

08-00-43 (hex) PIXEL COMPUTER INC.
080043 (base 16) PIXEL COMPUTER INC.
260 FORDHAM ROAD
WILMINGTON MA 01887
US

08-00-45 (hex) CONCURRENT COMPUTER CORP.
080045 (base 16) CONCURRENT COMPUTER CORP.
2 CRESCENT PLACE
OCEANPORT NJ 07757
US

08-00-3B (hex) TORUS SYSTEMS LIMITED
08003B (base 16) TORUS SYSTEMS LIMITED
SCIENCE PARK
UNITED KINGDOM
GB

08-00-3C (hex) SCHLUMBERGER WELL SERVICES
08003C (base 16) SCHLUMBERGER WELL SERVICES
AUSTIN ENGINEERING SERVICES
AUSTIN TX 78720-0015
US

08-00-34 (hex) FILENET CORPORATION
080034
(base 16) FILENET CORPORATION
1575 CORPORATE DRIVE
COSTA MESA CA 92626
US

08-00-36 (hex) INTERGRAPH CORPORATION
080036 (base 16) INTERGRAPH CORPORATION

ONE MADISON INDUSTRIAL PARK
HUNTSVILLE AL 35807
US

08-00-33 (hex) BAUSCH & LOMB
080033 (base 16) BAUSCH & LOMB
INTERACTIVE GRAPHICS DIVISION
AUSITN TX 78671
US

08-00-2B (hex) DIGITAL EQUIPMENT CORPORATION
08002B (base 16) DIGITAL EQUIPMENT CORPORATION
LKG 1-2/A19
LITTLETON MA 01460-1289
US

08-00-29 (hex) Megatek Corporation
080029 (base 16) Megatek Corporation
16868 Via Del Campo Court
San Diego CA 92127
US

08-00-23 (hex) Panasonic Communications Co., Ltd.
080023 (base 16) Panasonic Communications Co., Ltd.
4-1-62 Minoshima Hakata Fukuoka
812-8531
JP

08-00-7E (hex) AMALGAMATED WIRELESS(AUS) LTD
08007E (base 16) AMALGAMATED WIRELESS(AUS) LTD
NORTH RYDE DIVISION
AUSTRALIA 2113
AU

08-00-7F
(hex) CARNEGIE-MELLON UNIVERSITY
08007F (base 16) CARNEGIE-MELLON UNIVERSITY
INFORMATION TECHNOLOGY
PITTSBURGE PA 15213
US

08-00-48 (hex) EUROTHERM GAUGING SYSTEMS
080048 (base 16) EUROTHERM GAUGING SYSTEMS
900 MIDDLESEX TURNPIKE, BDG. 6
BILLERICA MA 01821
US

08-00-30 (hex) NETWORK RESEARCH CORPORATION

080030 (base 16) NETWORK RESEARCH CORPORATION
2380 N. ROSE AVENUE
OXNARD CA 93010
US

08-00-31 (hex) LITTLE MACHINES INC.
080031 (base 16) LITTLE MACHINES INC.
4141 JUTLAND DRIVE
SAN DIEGO CA 92117
US

08-00-2E (hex) METAPHOR COMPUTER SYSTEMS
08002E (base 16) METAPHOR COMPUTER SYSTEMS
2500 GARCIA AVENUE
MOUNTAIN VIEW CA 94043
US

08-00-56 (hex) STANFORD LINEAR ACCEL. CENTER
080056 (base 16) STANFORD LINEAR ACCEL. CENTER
2575 SANDHILL ROAD
MENLO PARK CA 94025
US

08-00-4F (hex) CYGNET SYSTEMS
08004F (base 16) CYGNET SYSTEMS
2560 JUNCTION
AVENUE
SAN JOSE CA 95134
US

08-00-50 (hex) DAISY SYSTEMS CORP.
080050 (base 16) DAISY SYSTEMS CORP.
139 KIFER COURT
SUNNYVALE CA 94086
US

08-00-6D (hex) WHITECHAPEL COMPUTER WORKS
08006D (base 16) WHITECHAPEL COMPUTER WORKS
75 WHITECHAPEL ROAD
LONDON E1 1DU
GB

08-00-5E (hex) COUNTERPOINT COMPUTER INC.
08005E (base 16) COUNTERPOINT COMPUTER INC.
2127 RINGWOOD AVENUE
SAN JOSE CA 95131
US

08-00-75 (hex) DANSK DATA ELECTRONIK
080075 (base 16) DANSK DATA ELECTRONIK
HERLEV HOVEDGADE 199

DK

08-00-78 (hex) ACCELL CORPORATION
080078 (base 16) ACCELL CORPORATION
50 SAGINAW DRIVE
ROCHESTER NY 14623
US

08-00-0F (hex) MITEL CORPORATION
08000F (base 16) MITEL CORPORATION
350 LEGGET DRIVE
CANADA K2K 1X3
CA

02-70-B0 (hex) M/A-COM INC. COMPANIES
0270B0 (base 16) M/A-COM INC. COMPANIES
11717 EXPLORATION LANE
GERMANTOWN MD 20767
US

00-00-53
(hex) COMPUCORP
000053 (base 16) COMPUCORP
2211 MICHIGAN AVENUE
SANTA MONICA CA 90404
US

08-00-0A (hex) NESTAR SYSTEMS INCORPORATED
08000A (base 16) NESTAR SYSTEMS INCORPORATED
2585 EAST BAYSHORE ROAD
PALO ALTO CA 94303
US

08-00-90 (hex) SONOMA SYSTEMS
080090 (base 16) SONOMA SYSTEMS
4640 ADMIRALTY WAY, STE. #600
MARINA DEL REY CA 90292-6695
US

00-80-0F (hex) STANDARD MICROSYSTEMS
00800F (base 16) STANDARD MICROSYSTEMS
300 KENNEDY DRIVE
HAUPPAUGE NY 11788
US

00-40-6B (hex) SYSGEN
00406B (base 16) SYSGEN
556 GIBRALTAR DRIVE
MILPITAS CA 95035
US

00-00-04 (hex) XEROX CORPORATION
000004 (base 16) XEROX CORPORATION
M/S 105-50C
WEBSTER NY 14580
US

00-DD-0E (hex) UNGERMANN-BASS INC.
00DD0E (base 16) UNGERMANN-BASS INC.
3900 FREEDOM CIRCLE
SANTA CLARA CA 95054
US

08-00-18 (hex) PIRELLI FOCOM NETWORKS
080018 (base
16) PIRELLI FOCOM NETWORKS
DENTON DRIVE
ENGLAND
GB

00-00-A6 (hex) NETWORK GENERAL CORPORATION
0000A6 (base 16) NETWORK GENERAL CORPORATION
1296 B LAWRENCE STATION ROAD
SUNNYVALE CA 94089
US

00-BB-F0 (hex) UNGERMANN-BASS INC.
00BBF0 (base 16) UNGERMANN-BASS INC.
3900 FREEDOM CIRCLE
SANTA CLARA CA 95054
US

00-40-8E (hex) Tattile SRL
00408E (base 16) Tattile SRL
2360 MARYLAND ROAD
WILLOW GROVE PA 19090
US

08-00-1C (hex) KDD-KOKUSAI DEBNSIN DENWA CO.
08001C (base 16) KDD-KOKUSAI DEBNSIN DENWA CO.
FUJI XEROX CO., LTD. TELEGRAPH
107

JP

F0-A7-31 (hex) TP-Link Corporation Limited
F0A731 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

00-DD-0C (hex) UNGERMANN-BASS INC.
00DD0C (base 16) UNGERMANN-BASS INC.
3900 FREEDOM CIRCLE
SANTA CLARA CA 95054
US

00-01-C8
(hex) THOMAS CONRAD CORP.
0001C8 (base 16) THOMAS CONRAD CORP.
1908-R KRAMER LANE
AUSTIN TX 78758
US

CC-45-A5 (hex) Texas Instruments
CC45A5 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

60-26-02 (hex) Texas Instruments
602602 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

EC-BF-D0 (hex) Texas Instruments
ECBFD0 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

C4-E7-33 (hex) Clear Align LLC
C4E733 (base 16) Clear Align LLC
2550 Boulevard of the Generals, Suite 280
Eagleville PA 19403
US

5C-FC-E1 (hex) Resideo
5CFCE1 (base 16) Resideo
2 Corporate Center Dr.

Melville NY 11747
US

94-15-B2 (hex) Huawei Device Co., Ltd.
9415B2 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

54-DE-D3 (hex) zte corporation
54DED3 (base 16) zte corporation
12/F.,zte
R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

74-9B-89 (hex) HUAWEI TECHNOLOGIES CO.,LTD
749B89 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

5C-53-B4 (hex) EM Microelectronic
5C53B4 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

50-A6-D8 (hex) Apple, Inc.
50A6D8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

68-CA-C4 (hex) Apple, Inc.
68CAC4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

74-20-5F (hex) Shenzhen Zhongruixin Intelligent Technology Co., Ltd.
74205F (base 16) Shenzhen Zhongruixin Intelligent Technology Co., Ltd.
Room 801, Block A, Nanyuan Commercial Building, Nanyuan New Village, Hongshan Community, Minzhi Street, Longhua District
Shenzhen City Guangdong Province 518001
CN

A4-97-8A

(hex) LEAR
A4978A (base 16) LEAR
Industriestraße 48
Kronach Bayern 96317
DE

80-F5-AE (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
80F5AE (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

E8-B7-22 (hex) GreenTrol Automation
E8B722 (base 16) GreenTrol Automation
156 Holly View Lane
Loris SC 29569
US

60-61-34 (hex) Arcade Communications Ltd.
606134 (base 16) Arcade Communications Ltd.
1120 Elliott Court Herald Avenue
Coventry CV5 6UB
CA

4C-EA-41 (hex) IEEE Registration Authority
4CEA41 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

00-30-8E (hex) Crossmatch Technologies/HID Global
00308E (base 16) Crossmatch Technologies/HID Global
3950 RCA Blvd Ste 5001
Palm Beach Gardens FL 33410
US

00-06-33 (hex) Crossmatch Technologies/HID Global
000633
(base 16) Crossmatch Technologies/HID Global
Unstrutweg 4
Jena 07743
DE

14-06-4C (hex) Vogl Electronic GmbH
14064C (base 16) Vogl Electronic GmbH
Pieringer Stadtweg 1
Salching 94330
DE

8C-61-20 (hex) EM Microelectronic
8C6120 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

8C-8E-4E (hex) Baylan Olcu Aletleri San. ve Tic.A.S.
8C8E4E (base 16) Baylan Olcu Aletleri San. ve Tic.A.S.
10032 Sk. No: 16 Cigli
?zmir 35620
TR

F8-AC-C1 (hex) InnoXings Co., LTD.
F8ACC1 (base 16) InnoXings Co., LTD.
6F, No. 157, Xinhu 1st Rd., Neihu Dist.
Taipei 114758
TW

84-50-75 (hex) Huawei Device Co., Ltd.
845075 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

5C-C7-87 (hex) Huawei Device Co., Ltd.
5CC787 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan
Guangdong 523808
CN

40-64-DC (hex) X-speed lnformation Technology Co.,Ltd
4064DC (base 16) X-speed lnformation Technology Co.,Ltd
th Floor,Building 2,Xinyu Electronic Industrial Park,No.69, Zhaishan,Houshan Village, High-tech Zone,Fuzhou,Fujian ,China
Fuzhou 350000
CN

30-D9-7F (hex) Tech4home, Lda
30D97F (base 16) Tech4home, Lda
Rua de Fundoes N151, VAT: PT509195830
Sao Joao da Madeira Aveiro 3700-121
PT

5C-F8-38 (hex) IEEE Registration Authority
5CF838 (base 16) IEEE Registration Authority
445 Hoes Lane

Piscataway NJ 08554
US

40-80-E1 (hex) FN-LINK TECHNOLOGY Ltd.
4080E1 (base 16) FN-LINK TECHNOLOGY Ltd.
No.8, Litong Road, Liuyang Economic & Technical Development Zone, Changsha, Hunan,China
Changsha Hunan 410329
CN

EC-CF-70 (hex) FUJIAN STAR-NET COMMUNICATION CO.,LTD
ECCF70 (base 16) FUJIAN STAR-NET COMMUNICATION CO.,LTD
19-22# Building, Star-net Science Plaza, Juyuanzhou,
FUZHOU
FUJIAN 350002
CN

9C-37-CB (hex) Sony Interactive Entertainment Inc.
9C37CB (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

3C-B0-ED (hex) Nothing Technology Limited
3CB0ED (base 16) Nothing Technology Limited
11 Staple Inn
London London WC1V 7QH
GB

C4-48-38 (hex) Satcom Direct, Inc.
C44838 (base 16) Satcom Direct, Inc.
1050 Satcom Lane
Melbourne FL 32940
US

D8-03-2A (hex) COMMTACT LTD
D8032A (base 16) COMMTACT LTD
NAHAL SNIR, 10
YAVNE 8110101
IL

84-70-51 (hex) ALPSALPINE CO,.LTD
847051 (base 16) ALPSALPINE CO,.LTD
nishida 6-1
kakuda-City Miyagi-Pref 981-1595
JP

74-0B-B0 (hex) Hirschmann Automation and Control GmbH
740BB0 (base 16) Hirschmann Automation and Control GmbH

Stuttgarter Straße 45-51
Neckartenzlingen D-72654
DE

04-F0-E4 (hex) ShenZhen Hosecom Electronic Technology Co.,LTD
04F0E4
(base 16) ShenZhen Hosecom Electronic Technology Co.,LTD
R1609, Building A, Zhiyun Industrial Park, No. 13 Huaxing Road, Longhua District, Shenzhen City, Guangdong Province
ShenZhen Guangdong 518000
CN

D4-7F-78 (hex) Dopple B.V.
D47F78 (base 16) Dopple B.V.
Overcingellaan 7
Assen Drenthe 9401 LA
NL

D8-E2-3F (hex) Qingdao Haier Technology Co.,Ltd
D8E23F (base 16) Qingdao Haier Technology Co.,Ltd
Building A01,Haier Information Park, No.1 Haier Road,
Qingdao Shandong 266101
CN

50-13-1D (hex) Motorola Mobility LLC, a Lenovo Company
50131D (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

3C-84-27 (hex) Espressif Inc.
3C8427 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

90-A9-F7 (hex) IEEE Registration Authority
90A9F7 (base 16) IEEE Registration Authority
445
Hoes Lane
Piscataway NJ 08554
US

F0-F7-FC (hex) HUAWEI TECHNOLOGIES CO.,LTD
F0F7FC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

30-FF-FD (hex) HUAWEI TECHNOLOGIES CO.,LTD
30FFFD (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B0-99-5A (hex) HUAWEI TECHNOLOGIES CO.,LTD
B0995A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-F7-AD (hex) HUAWEI TECHNOLOGIES CO.,LTD
00F7AD (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D4-CB-CC (hex) vivo Mobile Communication Co., Ltd.
D4CBCC (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

20-ED-47
(hex) Juniper Networks
20ED47 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

94-EF-49 (hex) BDR Thermea Group B.V
94EF49 (base 16) BDR Thermea Group B.V
Kanaal Zuid 106
Apeldoorn 7332BD
NL

90-B6-85 (hex) WEIFANG GOERTEK ELECTRONICS CO.,LTD
90B685 (base 16) WEIFANG GOERTEK ELECTRONICS CO.,LTD
Gaoxin 2 Road, Free Trade Zone,Weifang,Shandong,261205,P.R.China
Weifang Shandong 261205
CN

24-D5-E4 (hex) Cisco Systems, Inc
24D5E4 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568

US

A0-D1-B3 (hex) Apple, Inc.
A0D1B3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

7C-4B-26 (hex) Apple, Inc.
7C4B26 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

18-E8-3B (hex) Citadel Wallet LLC
18E83B (base 16) Citadel Wallet LLC
221 North Broad Street, Suite 3A
Middletown DE 19709
US

24-A1-86
(hex) ARRIS Group, Inc.
24A186 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

CC-11-5A (hex) Apple, Inc.
CC115A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-80-66 (hex) Eurotech S.p.A.
008066 (base 16) Eurotech S.p.A.
Via Fratelli Solari 3/A
Amaro Udine 33020
GB

00-80-A3 (hex) Lantronix
0080A3 (base 16) Lantronix
48 Discovery, Suite 250
Irvine CA 92618
US

EC-41-F9 (hex) Shenzhen iComm Semiconductor CO.,LTD
EC41F9 (base 16) Shenzhen iComm Semiconductor CO.,LTD
Room 601,Block B ,Digital Building,Garden City

Shenzhen No.1079 Nanhai Road,Nanshan District 518067
CN

78-53-33 (hex) Beijing Xiaomi Electronics Co.,Ltd
785333 (base 16) Beijing Xiaomi Electronics Co.,Ltd
Xiaomi Campus
Beijing Beijing 100085
CN

9C-F8-B8 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
9CF8B8 (base 16) Shenzhen Skyworth
Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

90-D4-32 (hex) zte corporation
90D432 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

14-7F-67 (hex) LG Innotek
147F67 (base 16) LG Innotek
26, HANAMSANDAN 5BEON-RO
Gwangju Gwangsan-gu 506-731
KR

94-32-C1 (hex) Honor Device Co., Ltd.
9432C1 (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District
Shenzhen Guangdong 518040
CN

10-7C-61 (hex) ASUSTek COMPUTER INC.
107C61 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

58-FC-C8 (hex) LenelS2 Carrier
58FCC8 (base 16) LenelS2 Carrier
1212 Pittsford Victor Rd
Pittsford NY 14534
US

18-95-78 (hex) DENSO Corporation

189578
(base 16) DENSO Corporation
1-1, Showa-cho
Kariya Aichi 448-8661
JP

EC-9A-0C (hex) IEEE Registration Authority
EC9A0C (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

00-8D-F4 (hex) IEEE Registration Authority
008DF4 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

9C-37-08 (hex) Aruba, a Hewlett Packard Enterprise Company
9C3708 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

6C-7F-0C (hex) Cisco Meraki
6C7F0C (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco 94158
US

5C-B2-6D (hex) Intel Corporate
5CB26D (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

CC-4D-75 (hex) Beijing Xiaomi Mobile Software Co., Ltd
CC4D75 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle
Street Haidian District
Beijing Beijing 100085
CN

E8-B0-C5 (hex) Intel Corporate
E8B0C5 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

78-18-EC (hex) Fortinet, Inc.
7818EC (base 16) Fortinet, Inc.
899 Kifer Road
Sunnyvale 94086
US

E0-2E-FE (hex) Zhejiang Dahua Technology Co., Ltd.
E02EFE (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

6C-51-E4 (hex) Huawei Device Co., Ltd.
6C51E4 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

B0-FA-8B (hex) Huawei Device Co., Ltd.
B0FA8B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E8-28-8D (hex) Huawei Device Co., Ltd.
E8288D (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong
523808
CN

48-1C-B9 (hex) SZ DJI TECHNOLOGY CO.,LTD
481CB9 (base 16) SZ DJI TECHNOLOGY CO.,LTD
DJI Sky City, No55 Xianyuan Road, Nanshan District
Shenzhen Guangdong 518057
CN

C4-62-37 (hex) sunweit industrial limited
C46237 (base 16) sunweit industrial limited
Block A ,503B Room,Zhihui Innovation Centre
Shenzhen GUANGDONG 518000
CN

F4-62-DC (hex) Huawei Device Co., Ltd.
F462DC (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808

CN

CC-A0-8F (hex) zte corporation
CCA08F (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

FC-B5-85 (hex) Shenzhen Water World Information Co.,Ltd.
FCB585 (base 16) Shenzhen Water World Information Co.,Ltd.
1F, Building 3, DexinChang Wisdom Park, No. 23, Heping Road, Qinghua Community, Longhua Subdistrict, Longhua District
Shenzhen
Guangdong 518109
CN

D4-24-DD (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
D424DD (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

EC-E6-60 (hex) Qingdao Hisense Communications Co.,Ltd.
ECE660 (base 16) Qingdao Hisense Communications Co.,Ltd.
Qianwangang Road 218
Qingdao Shandong 266510
CN

A0-55-1F (hex) Sagemcom Broadband SAS
A0551F (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

F4-D5-8A (hex) Palo Alto Networks
F4D58A (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

C8-C6-FE (hex) eero inc.
C8C6FE (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

18-89-DF (hex) OMNIVISION
1889DF (base 16) OMNIVISION

18F Attend on tower, 2-8-12, Shin Yokohama
Yokohama Kohoku-ku 222-0033
JP

44-30-3F (hex) HUAWEI
TECHNOLOGIES CO.,LTD
44303F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

5C-07-A6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
5C07A6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

CC-1E-56 (hex) HUAWEI TECHNOLOGIES CO.,LTD
CC1E56 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

38-C6-BD (hex) Xiaomi Communications Co Ltd
38C6BD (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

4C-B9-11 (hex) Raisecom Technology CO., LTD
4CB911 (base 16) Raisecom Technology CO., LTD
No. 11, East Area, No. 10 Block, East Xibeiwang Road
Beijing 100094
CN

00-0E-5E (hex) Raisecom Technology CO., LTD
000E5E (base
16) Raisecom Technology CO., LTD
2 Floor, South Building of Rainbow Plaza
Haidian District Beijing 100085
CN

A8-3C-A5 (hex) Dell Inc.
A83CA5 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

90-89-38 (hex) Hefei Linkin Technology Co., Ltd.
908938 (base 16) Hefei Linkin Technology Co., Ltd.
Room 901-905, 9th Floor, Building F3, Innovation Industrial Park II, Wangjiang West Road, Hefei National High-tech Industry Development Zone,
Hefei Anhui 230000
CN

A8-BA-69 (hex) Samsung Electronics Co.,Ltd
A8BA69 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-0C-8D (hex) Balluff MV GmbH
000C8D (base 16) Balluff MV GmbH
Talstrasse 16
Oppenweiler Baden-Württemberg D-71570
DE

80-F7-A6 (hex) Shenzhen C-Data Technology Co., Ltd.
80F7A6 (base 16) Shenzhen C-Data Technology Co., Ltd.
#201, Building A4, Nanshan Zhiyuan, No.1001, Xueyuan Avenue,
Changyuan Community,Taoyuan,Nanshan
Shenzhen Guangdong 518055
CN

30-2F-AC (hex) Zhejiang HuaRay Technology Co.,Ltd
302FAC (base 16) Zhejiang HuaRay Technology Co.,Ltd
Room 401, 4th Floor, Building 1, No. 590 Changhe Road, Changhe Street, Binjiang District
hangzhou zhejiang 310051
CN

B8-0B-DA (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
B80BDA (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

34-2D-A3 (hex) Fiberhome Telecommunication Technologies Co.,LTD
342DA3 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

0C-6A-C4 (hex) Apple, Inc.
0C6AC4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

BC-37-D3 (hex) Apple, Inc.
BC37D3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

20-CC-27 (hex) Cisco Systems,
Inc
20CC27 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

0C-51-7E (hex) Apple, Inc.
0C517E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

BC-EA-9C (hex) ITEL MOBILE LIMITED
BCEA9C (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

28-D2-5A (hex) Infinix mobility limited
28D25A (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN
HONG KONG
HongKong HongKong 999077
HK

80-EA-0B (hex) Zyxel Communications Corporation
80EA0B (base 16) Zyxel Communications Corporation
No. 6, Innovation Road II
Hsinchu 300
TW

98-2F-86 (hex) vivo Mobile Communication Co., Ltd.
982F86 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

04-E4-B6

(hex) Samsung Electronics Co.,Ltd
04E4B6 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

04-79-FD (hex) Ciena Corporation
0479FD (base 16) Ciena Corporation
900 International Drive
Linthicum MD 21090-2200
US

50-98-93 (hex) Texas Instruments
509893 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

6C-83-38 (hex) Ubihere
6C8338 (base 16) Ubihere
4621 Lyman Drive
Hilliard OH 43026
US

00-0C-EF (hex) ONE Investment Group Limited
000CEF (base 16) ONE Investment Group Limited
Unit 6 Chelmsford Road Industrial Estate, Chelmsford Road, Great Dunmow
Essex CM6 1HD
GB

50-3A-A0 (hex) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
503AA0 (base 16) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
6th Floor, South Section, Building 23, Keyuan West, NO.1 Kezhi West Road, Science and Technology Community, Yuehai Street, Nanshan District
Shenzhen Guangdong 518057
CN

5C-DE-34 (hex) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
5CDE34 (base 16) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
6th Floor, South Section, Building 23, Keyuan West, NO.1 Kezhi West Road, Science and Technology Community, Yuehai Street, Nanshan District
Shenzhen Guangdong 518057
CN

38-39-8F (hex) Silicon Laboratories
38398F (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701

US

84-27-12 (hex) Silicon Laboratories
842712 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

7C-C6-B6 (hex) Silicon Laboratories
7CC6B6 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

98-0C-33 (hex) Silicon Laboratories
980C33 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

50-5E-5C (hex) SUNITEC TECHNOLOGY
CO.,LIMITED
505E5C (base 16) SUNITEC TECHNOLOGY CO.,LIMITED
Floor 1-4, building C, Weixlangtal industrial park, no, 725, Dasan VillageXingfu community, Fucheng Street, Longhua district
Shenzhen 518110
CN

38-02-E3 (hex) YICHEN (SHENZHEN) TECHNOLOGY CO.,LTD
3802E3 (base 16) YICHEN (SHENZHEN) TECHNOLOGY CO.,LTD
23rd Floor C1 Block,Nanshan iPark?NO.1001 Xueyuan Road, Nanshan District, Shenzhen,Guangdong Province,PRC
ShenZhen City GuangDong Province 518000
CN

7C-F0-E5 (hex) OnePlus Technology (Shenzhen) Co., Ltd
7CF0E5 (base 16) OnePlus Technology (Shenzhen) Co., Ltd
18C02, 18C03, 18C04 ,18C05,TAIRAN BUILDING,
Shenzhen Guangdong 518000
CN

34-C7-E9 (hex) Google, Inc.
34C7E9 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

20-93-39 (hex) Juniper Networks

209339 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

B4-2B-B9 (hex) HUAWEI
TECHNOLOGIES CO.,LTD
B42BB9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E4-A7-D0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E4A7D0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

34-C5-15 (hex) Aruba, a Hewlett Packard Enterprise Company
34C515 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

48-2D-63 (hex) Wavarts Technologies Co., Ltd
482D63 (base 16) Wavarts Technologies Co., Ltd
ZGC Sci-Fi Industry Innovation Center Floor 8, Shijingshan District
Beijing 100043
CN

80-99-E7 (hex) Sony Corporation
8099E7 (base 16) Sony Corporation
Sony City Osaki 2-10-1
Shinagawa-ku Tokyo 141-8610
JP

E8-FF-1E (hex) IEEE Registration Authority
E8FF1E (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway
NJ 08554
US

1C-54-E6 (hex) Shenzhen Yisheng Technology Co.,Ltd
1C54E6 (base 16) Shenzhen Yisheng Technology Co.,Ltd
Street Address: Block 6,R & D center building,Funing high tech Industrial Park,No.71 XinTian Road,FuYong Town, BaoAn, Shenzhen, Guangdong Province, China
Shenzhen 518103

CN

AC-8C-46 (hex) Beijing Xiaomi Mobile Software Co., Ltd
AC8C46 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

0C-4B-48 (hex) Nokia
0C4B48 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

7C-7B-1C (hex) Motorola Mobility LLC, a Lenovo Company
7C7B1C (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

78-34-FD (hex) vivo Mobile Communication Co., Ltd.
7834FD (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan
Guangdong 523860
CN

B0-9C-63 (hex) Xiaomi Communications Co Ltd
B09C63 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

E8-98-47 (hex) Xiaomi Communications Co Ltd
E89847 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

FC-38-6A (hex) Shenzhen Skyworth Digital Technology CO., Ltd
FC386A (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

50-88-11 (hex) Beijing Xiaomi Mobile Software Co., Ltd
508811 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District

Beijing Beijing 100085
CN

AC-81-B5 (hex) Accton Technology Corporation
AC81B5 (base 16) Accton Technology Corporation
No.
1 Creation Rd. III, Science-based Industrial Park
Hsinchu 300
TW

F8-C4-FA (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
F8C4FA (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

AC-CE-92 (hex) New H3C Technologies Co., Ltd
ACCE92 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

FC-3C-D7 (hex) Tuya Smart Inc.
FC3CD7 (base 16) Tuya Smart Inc.
160 Greentree Drive, Suite 101
Dover DE 19904
US

D0-46-0C (hex) Dell Inc.
D0460C (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

84-D5-A0 (hex) MCOT INC.
84D5A0 (base 16) MCOT INC.
Yogohigashi 1-5-12
Matsuyama Ehime 790-0044
JP

84-E8-CB (hex) BUFFALO.INC
84E8CB (base 16) BUFFALO.INC
AKAMONDORI Bld.,30-20,Ohsu 3-chome,Naka-ku
Nagoya Aichi Pref. 460-8315
JP

38-E1-F4 (hex) Sagemcom

Broadband SAS
38E1F4 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

64-53-E0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
6453E0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

68-8B-F4 (hex) Arista Network, Inc.
688BF4 (base 16) Arista Network, Inc.
5453 Great America Parkway
Santa Clara CA 95054
US

20-23-51 (hex) TP-LINK CORPORATION PTE. LTD.
202351 (base 16) TP-LINK CORPORATION PTE. LTD.
7 Temasek Boulevard #29-03 Suntec Tower One
Singapore 038987
SG

8C-84-74 (hex) Broadcom Limited
8C8474 (base 16) Broadcom Limited
15191 Alton Parkway
Irvine CA 92618
US

D8-A6-FD (hex) Ghost Autonomy Inc.
D8A6FD (base 16) Ghost Autonomy Inc.
800 California St. Suite 200
Mountain View CA 94041
US

94-01-7D (hex) SHENZHEN SHLINK.CO.,LIMITED
94017D
(base 16) SHENZHEN SHLINK.CO.,LIMITED
701, Building A, Lilan Innovation Industrial Park, No. 104 Huanguanzhong Road, Songxuan Community, Guanhu Street, Longhua District, Shenzhen
SHENZHEN GUANGDONG 925351
CN

90-A0-BE (hex) Cannice
90A0BE (base 16) Cannice
Guangxi Konaixin Precision Technology Co., Ltd., Guishi North Road Industrial Zone, Zhongshan Town, Zhongshan County, Hezhou City, Guangxi Zhuang Autonomous Region

Hezhou Guangxi 542800
CN

C0-E5-DA (hex) Qingdao Intelligent&Precise Electronics Co.,Ltd.
C0E5DA (base 16) Qingdao Intelligent&Precise Electronics Co.,Ltd.
No.218 Qianwangang Road
Qingdao Shangdong 266510
CN

D8-3D-3F (hex) JOYNED GmbH
D83D3F (base 16) JOYNED GmbH
Nockhofweg 26c
Mutters 6162
AT

D4-48-67 (hex) Silicon Laboratories
D44867 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

D8-C6-F9 (hex) Tracklab Inc
D8C6F9 (base
16) Tracklab Inc
5060 SW Philomath BLVD #508
CORVALLIS OR 97333
US

6C-48-3F (hex) Xiaomi Communications Co Ltd
6C483F (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

3C-AF-B7 (hex) Xiaomi Communications Co Ltd
3CAFB7 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

54-08-53 (hex) Qingdao Haier Technology Co.,Ltd
540853 (base 16) Qingdao Haier Technology Co.,Ltd
Building A01,Haier Information Park, No.1 Haier Road,
Qingdao Shandong 266101
CN

BC-08-66 (hex) Nestle Purina PetCare
BC0866 (base 16) Nestle Purina PetCare

Checkerboard Square
Saint Louis MO 63164
US

2C-B6-8F (hex) HUAWEI TECHNOLOGIES CO.,LTD
2CB68F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan
523808
CN

C8-D1-A9 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C8D1A9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

DC-9B-95 (hex) Phyplus Technology (Shanghai) Co., Ltd
DC9B95 (base 16) Phyplus Technology (Shanghai) Co., Ltd
3th Floor, Building 23, 676 Wuxing Road, Pudong New District, Shanghai
Shanghai Shanghai 201204
CN

48-00-B3 (hex) Cisco Systems, Inc
4800B3 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E0-5D-54 (hex) Ruijie Networks Co.,LTD
E05D54 (base 16) Ruijie Networks Co.,LTD
Building 19,Juyuanzhou Industrial Park, No.618 Jinshan Avenue, Cangshan District
Fuzhou 35000
CN

40-BB-56 (hex) TeraNXT Global India Pvt Ltd.
40BB56 (base 16) TeraNXT Global India Pvt Ltd.
7A/61 W.E.A KAROL BAGH
DELHI DELHI 110005
IN

40-DA-5C (hex) Apple, Inc.
40DA5C (base 16) Apple, Inc.
1
Infinite Loop
Cupertino CA 95014
US

5C-91-75 (hex) Apple, Inc.
5C9175 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A0-78-2D (hex) Apple, Inc.
A0782D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D0-11-E5 (hex) Apple, Inc.
D011E5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-44-89 (hex) TP-LINK CORPORATION PTE. LTD.
D84489 (base 16) TP-LINK CORPORATION PTE. LTD.
7 Temasek Boulevard #29-03 Suntec Tower One
Singapore 038987
SG

18-18-8B (hex) FCNT LLC
18188B (base 16) FCNT LLC
Sanki Yamato Building, 7-10-1 Chuorinkan
Yamato Kanagawa 242-8588
JP

6C-60-16 (hex) OnePlus Technology (Shenzhen) Co., Ltd
6C6016 (base 16) OnePlus Technology (Shenzhen) Co., Ltd
18C02, 18C03, 18C04 ,18C05,TAIRAN BUILDING,
Shenzhen Guangdong 518000
CN

64-FE-15 (hex) Flaircomm Microelectronics,Inc.
64FE15 (base 16) Flaircomm
Microelectronics,Inc.
7FGuomai Building,Guomai Science and Technology Park,116 Jiangbin East Avenue,Mawei District,Fuzhou City
Fuzhou FUJIAN 350015
CN

D8-6B-FC (hex) zte corporation
D86BFC (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

DC-71-D0 (hex) Apple, Inc.
DC71D0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

9C-FA-76 (hex) Apple, Inc.
9CFA76 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

20-FA-85 (hex) Apple, Inc.
20FA85 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

9C-1A-25 (hex) Apple, Inc.
9C1A25 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E0-48-24 (hex) Garmin International
E04824 (base 16) Garmin International
1200 E. 151st St
Olathe KS 66062
US

44-F7-70 (hex) Beijing Xiaomi Mobile Software
Co., Ltd
44F770 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

A8-31-62 (hex) Hangzhou Huacheng Network Technology Co.,Ltd
A83162 (base 16) Hangzhou Huacheng Network Technology Co.,Ltd
13th Floor, Building 3, No. 582, Liye Road, Changhe Street, Binjiang District
Hangzhou (Zhejiang) Pilot Free Trade Zone 311200
CN

CC-64-1A (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
CC641A (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268 Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000

CN

68-B4-1E (hex) ZEASN TECHNOLOGY PRIVATE LIMITED
68B41E (base 16) ZEASN TECHNOLOGY PRIVATE LIMITED
6 SHENTON WAY #37-03 OUE DOWNTOWN
Singpore Singpore 068809
SG

08-F0-B6 (hex) Edifier International
08F0B6 (base 16) Edifier International
Suit 2207, 22nd floor, Tower II, Lippo
centre, 89 Queensway
Hong Kong 070
CN

C0-55-5C (hex) Impulse Labs
C0555C (base 16) Impulse Labs
1409 Minnesota Street
San Francisco CA 94107
US

A8-59-5F (hex) Intel Corporate
A8595F (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

CC-28-AA (hex) ASUSTek COMPUTER INC.
CC28AA (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

3C-9F-CD (hex) Shenzhen Neoway Technology Co.,Ltd.
3C9FCD (base 16) Shenzhen Neoway Technology Co.,Ltd.
Room 4401, Building 1, Huide Tower, Beizhan Community, Minzhi Sub-district, Longhua District
Shenzhen Guangdong 518000
CN

34-14-53 (hex) Gantner Electronic GmbH
341453 (base 16) Gantner Electronic GmbH
Bundesstrasse12
Nueziders 6714
AT

DC-4B-A1 (hex) Wistron Neweb Corporation
DC4BA1 (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park

Hsin-Chu
R.O.C. 308
TW

34-A6-EF (hex) Shenzhen Phaten Tech. LTD
34A6EF (base 16) Shenzhen Phaten Tech. LTD
C-6 ideamonto industril 7002 Songbai Road Guangming District Shenzhen City Guangdong, China
Shenzhen 518108
CN

BC-3F-4E (hex) Great Talent Technology Limited
BC3F4E (base 16) Great Talent Technology Limited
No.13 Langshan Rd,HiTech Park,Nanshan District
Shenzhen Guangdong 518000
CN

DC-54-AD (hex) Hangzhou RunZhou Fiber Technologies Co.,Ltd
DC54AD (base 16) Hangzhou RunZhou Fiber Technologies Co.,Ltd
Room 401-1, Building 8, 181 Wuchang Avenue, Wuchang Street, Yuhang District
Hangzhou Zhejiang 310030
CN

A8-96-09 (hex) FN-LINK TECHNOLOGY Ltd.
A89609 (base 16) FN-LINK TECHNOLOGY Ltd.
No.8, Litong Road, Liuyang Economic & Technical Development Zone, Changsha, Hunan,China
Changsha Hunan 410329
CN

84-15-71 (hex) TCT mobile ltd
841571 (base 16) TCT mobile ltd
No.86 hechang
7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

E8-BF-B8 (hex) Intel Corporate
E8BFB8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B0-92-4A (hex) Sagemcom Broadband SAS
B0924A (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

54-04-63 (hex) CIG SHANGHAI CO LTD

540463 (base 16) CIG SHANGHAI CO LTD
5th Floor, Building 8 No 2388 Chenhang Road
SHANGHAI 201114
CN

88-20-67 (hex) Fiberhome Telecommunication Technologies Co.,LTD
882067 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

E8-54-97 (hex) Samsung Electronics Co.,Ltd
E85497 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

10-83-B4 (hex) Sidora Srl
1083B4 (base 16) Sidora Srl
Via Giacomo Boni, 15
Roma Rm 00162
IT

14-E0-1D
(hex) Samsung Electronics Co.,Ltd
14E01D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

40-DE-24 (hex) Samsung Electronics Co.,Ltd
40DE24 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F0-D8-05 (hex) Cisco Systems, Inc
F0D805 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

08-63-32 (hex) IEEE Registration Authority
086332 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

00-01-30 (hex) Extreme Networks Headquarters
000130 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

FC-0A-81 (hex) Extreme Networks Headquarters
FC0A81 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

00-74-9C (hex) Ruijie Networks Co.,LTD
00749C (base 16) Ruijie Networks
Co.,LTD
19# Building,Star-net Science Plaza,Juyuanzhou, 618 Jinshan Road
Fuzhou Fujian 350002
CN

00-0F-EA (hex) GIGA-BYTE TECHNOLOGY CO.,LTD.
000FEA (base 16) GIGA-BYTE TECHNOLOGY CO.,LTD.
No.215,Nan-Ping Road,Ping-Jen City,
Ping-Jen Taoyuan 324
TW

CC-CC-EA (hex) PHOENIX CONTACT Electronics GmbH
CCCCEA (base 16) PHOENIX CONTACT Electronics GmbH
Dringenauer Str. 30
Bad Pyrmont - D-31812
DE

48-9B-D5 (hex) Extreme Networks Headquarters
489BD5 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

DC-B8-08 (hex) Extreme Networks Headquarters
DCB808 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

F4-6E-95 (hex) Extreme Networks Headquarters
F46E95 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

E0-1C-41 (hex) Extreme Networks Headquarters
E01C41
(base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

BC-F3-10 (hex) Extreme Networks Headquarters
BCF310 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

D8-54-A2 (hex) Extreme Networks Headquarters
D854A2 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

C8-66-5D (hex) Extreme Networks Headquarters
C8665D (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

8C-49-7A (hex) Extreme Networks Headquarters
8C497A (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

B0-27-CF (hex) Extreme Networks Headquarters
B027CF (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

C8-51-FB (hex) Extreme Networks Headquarters
C851FB (base 16) Extreme Networks
Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

DC-23-3B (hex) Extreme Networks Headquarters
DC233B (base 16) Extreme Networks Headquarters
2121 RDU Center Drive

Morrisville NC 27560
US

E4-DB-AE (hex) Extreme Networks Headquarters
E4DBAE (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

38-AD-2B (hex) Hitron Technologies. Inc
38AD2B (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

E8-45-8B (hex) MitraStar Technology Corp.
E8458B (base 16) MitraStar Technology Corp.
No. 6, Innovation Road II,
Hsinchu 300
TW

D0-44-33 (hex) Clourney Semiconductor
D04433 (base 16) Clourney Semiconductor
Floor 6, Building 8, 2777 Nong, Jinxiu East Road, Pudong Dist.
Shanghai Shanghai 201206
CN

40-86-CB (hex) D-Link Corporation
4086CB (base
16) D-Link Corporation
No.289, Sinhu 3rd Rd., Neihu District,
Taipei City 114
TW

48-41-7B (hex) Nokia Solutions and Networks GmbH & Co. KG
48417B (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

60-8C-DF (hex) Beamtrail-Sole Proprietorship
608CDF (base 16) Beamtrail-Sole Proprietorship
Level 7 Aldar HQ
Abu Dhabi Abu Dhabi 29836
AE

30-27-CF (hex) Canopy Growth Corp
3027CF (base 16) Canopy Growth Corp

350 Leggett Drive
Ottawa Ontario K2K 2W7
CA

00-12-77 (hex) Beijer Electronics Corp.
001277 (base 16) Beijer Electronics Corp.
11F-1, No. 108, MinQuan Rd.
Xindian City Taipei 231
TW

20-47-B5 (hex) Sagemcom Broadband SAS
2047B5 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

60-45-2E (hex) Intel Corporate
60452E (base 16) Intel Corporate
Lot
8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

1C-AB-48 (hex) TECNO MOBILE LIMITED
1CAB48 (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

88-B4-36 (hex) FUJIFILM Corporation
88B436 (base 16) FUJIFILM Corporation
1-324,Uetake,Kita-ku
Saitama Saitama 331-9624
JP

CC-D3-42 (hex) Cisco Systems, Inc
CCD342 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

40-B8-C2 (hex) OSMOZIS
40B8C2 (base 16) OSMOZIS
7 Avenue de l'Europe
Clapiers 34830
FR

8C-E9-EE (hex) Intel Corporate
8CE9EE (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

94-45-60 (hex) Google, Inc.
944560 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

5C-33-7B (hex) Google, Inc.
5C337B
(base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

2C-9C-58 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
2C9C58 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

B8-F4-4F (hex) u-blox AG
B8F44F (base 16) u-blox AG
Zuercherstrasse, 68
Thalwil Switzerland CH-8800
CH

54-09-29 (hex) Inventus Power Eletronica do Brasil LTDA
540929 (base 16) Inventus Power Eletronica do Brasil LTDA
Av Buriti, 4285 Distrito Industrial
Manaus Amazonas 69075000
BR

28-31-F8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
2831F8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-AA-99 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C4AA99 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road,
Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

A8-F5-E1 (hex) Shenzhen Shokz Co., Ltd.
A8F5E1 (base 16) Shenzhen Shokz Co., Ltd.
Baoan District Shiyan street Shancheng Industrial zone 26 building
Shenzhen Guangdong 518108
CN

60-66-82 (hex) SHENZHEN ATEKO PHOTOELECTRICITY CO.,LTD
606682 (base 16) SHENZHEN ATEKO PHOTOELECTRICITY CO.,LTD
4-5F,E1 Building,TCL International E City,No.1001 Zhongshanyuan Road,Nanshan District,Shenzhen
SHENZHEN GUANGDONG 518052
CN

78-8D-AF (hex) Sagemcom Broadband SAS
788DAF (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

2C-BA-CA (hex) Cosonic Electroacoustic Technology Co., Ltd.
2CBACA (base 16) Cosonic Electroacoustic Technology Co., Ltd.
No.151, Shipai Section, Dongyuan Avenue, Shipai Town
Dongguan Guangdong 523331
CN

04-FA-3F (hex) OptiCore Inc.
04FA3F (base 16) OptiCore Inc.
97
Jungbudaero448beongil, Yeongtonggu
Suwonsi Gyeonggido 16521
KR

44-1D-B1 (hex) APTIV SERVICES US, LLC
441DB1 (base 16) APTIV SERVICES US, LLC
5725 Innovation Drive
Troy MI 48098
US

00-9C-C0 (hex) vivo Mobile Communication Co., Ltd.
009CC0 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

E8-9E-13 (hex) CRESYN
E89E13 (base 16) CRESYN
8-22,Jamwon-dong

Seoul Seocho-Gu #137-902
KR

BC-18-96 (hex) HUAWEI TECHNOLOGIES CO.,LTD
BC1896 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

BC-0F-FE (hex) Juniper Networks
BC0FFE (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

E0-D3-B4 (hex) Cisco Meraki
E0D3B4 (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco 94158
US

FC-8C-11 (hex) Microsoft Corporation
FC8C11
(base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

A4-94-DC (hex) Infinite Clouds
A494DC (base 16) Infinite Clouds
Office 406 Block 333 Road 3307, Um Al Hassam, Kingdom of Bahrain
Manama 973
BH

4C-43-41 (hex) Calix Inc.
4C4341 (base 16) Calix Inc.
2777 Orchard Pkwy
San Jose CA 95131
US

E4-6C-D1 (hex) Calix Inc.
E46CD1 (base 16) Calix Inc.
2777 Orchard Pkwy
San Jose CA 95131
US

D0-F2-7F (hex) BrewLogix, LLC
D0F27F (base 16) BrewLogix, LLC

6 East Washing Street, Suite 200
Indianapolis IN 46204
US

7C-FC-FD (hex) Fiberhome Telecommunication Technologies Co.,LTD
7CFCFD (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

48-87-B8 (hex) TCL King Electrical Appliances(Huizhou)Co.,Ltd
4887B8 (base 16) TCL King Electrical Appliances(Huizhou)Co.,Ltd
B Area, 10th floor,
TCL multimedia Building, TCL International E City, #1001 Zhonshanyuan road,Shenzhen
guangdong China 518058
CN

70-58-A4 (hex) Actiontec Electronics Inc.
7058A4 (base 16) Actiontec Electronics Inc.
2445 Augustine Dr #501
Santa Clara CA 95054
US

18-80-25 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
188025 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

F8-F0-9D (hex) Hangzhou Prevail Communication Technology Co., Ltd
F8F09D (base 16) Hangzhou Prevail Communication Technology Co., Ltd
No. 11809,Jianshe 4th road,Guali twon,Xiaoshan district
Hangzhou City Zhejiang Province 311241
CN

E4-78-76 (hex) Arista Networks
E47876 (base 16) Arista Networks
5453 Great America Parkway
Santa Clara CA 95054
US

A4-A9-30 (hex) Beijing Xiaomi Mobile Software Co., Ltd
A4A930 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow
City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

A0-22-52 (hex) Astra Wireless Technology FZ-LLC
A02252 (base 16) Astra Wireless Technology FZ-LLC
T1-4F-63, RAKEZ Amenity Center, Al Hamra Industrial Zone-FZ
Ras Al Khaimah 7100
AE

BC-10-2F (hex) SJI Industry Company
BC102F (base 16) SJI Industry Company
54-33, Dongtanhana 1-gil
Hwaseong-si Gyeonggi-do 18423
KR

FC-93-6B (hex) Samsung Electronics Co.,Ltd
FC936B (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

BC-B6-FB (hex) P4Q ELECTRONICS, S.L.
BCB6FB (base 16) P4Q ELECTRONICS, S.L.
Calle Nuestra Señora de la Guía Número 19
Alonsotegi Bizkaia 48810
ES

7C-75-2D (hex) Samsung Electronics Co.,Ltd
7C752D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

84-EE-E4 (hex) Samsung Electronics Co.,Ltd
84EEE4
(base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

44-35-D3 (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
4435D3 (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

88-F0-0F (hex) Miraeil
88F00F (base 16) Miraeil
70, Gasan digital 2-ro, Geumcheon-gusuite 1012
Seoul 08589
KR

18-A7-88 (hex) Shenzhen MEK Intellisys Pte Ltd
18A788 (base 16) Shenzhen MEK Intellisys Pte Ltd
Room 6C, 6th Floor, KeChuang Mansion, Quanzhi Technology Park, HouTing, Shajing Town, BaoAn District
Shenzhen GuangDong 518104
CN

BC-85-29 (hex) Jiangxi Remote lntelligence Technology Co.,Ltd
BC8529 (base 16) Jiangxi Remote lntelligence Technology Co.,Ltd
No. 1, Chemical Avenue, Guixi335400, Yingtan, Jiangxi
Yingtan Jiangxi 360600
CN

64-DA-ED (hex) eero inc.
64DAED (base 16) eero inc.
660
3rd Street
San Francisco CA 94107
US

28-94-01 (hex) NETGEAR
289401 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

D8-78-C9 (hex) SERVERCOM (INDIA) PRIVATE LIMITED
D878C9 (base 16) SERVERCOM (INDIA) PRIVATE LIMITED
E-43/1 OKHLA INDUSTRIAL AREA PHASE-II NEW DELHI SOUTH DELHI
NEW DELHI NA
IN

A8-5E-F2 (hex) TECNO MOBILE LIMITED
A85EF2 (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

78-9A-18 (hex) Routerboard.com
789A18 (base 16) Routerboard.com
Mikrotikls SIA
Riga Riga LV1009
LV

84-DB-2F (hex) Sierra Wireless, ULC
84DB2F (base 16) Sierra Wireless, ULC
1381 Wireless Way

Richmond BC V6V 3A4
CA

74-C5-30 (hex) vivo Mobile Communication Co., Ltd.
74C530 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo
Road, Chang'an
Dongguan Guangdong 523860
CN

BC-96-E5 (hex) SERCOMM PHILIPPINES INC
BC96E5 (base 16) SERCOMM PHILIPPINES INC
Lot 1 & 5, Phase 1, Filinvest Technology Park 1, Brgy. Punta, Calamba City
Calamba Lot 1
PH

A8-99-AD (hex) Chaoyue Technology Co., Ltd.
A899AD (base 16) Chaoyue Technology Co., Ltd.
No. 2877 Kehang Road, Suncun Town, High tech Zone, Jinan City, Shandong Province, China
Jinan SHANDONG 250104
CN

D0-15-BB (hex) IEEE Registration Authority
D015BB (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

64-CE-6E (hex) Sierra Wireless, ULC
64CE6E (base 16) Sierra Wireless, ULC
13811 Wireless Way
Richmond BC V6V 3A4
CA

78-DF-72 (hex) Shanghai Imilab Technology Co.Ltd
78DF72 (base 16) Shanghai Imilab Technology Co.Ltd
29F, A Tower, New Caohejing International Business Center, Guiping Road, Xuhui District
Shanghai Shanghai 200000
CN

60-2B-58
(hex) EM Microelectronic
602B58 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

10-9D-9C (hex) EM Microelectronic

109D9C (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

28-FF-5F (hex) HG Genuine Intelligent Terminal (Xiaogan) Co.,Ltd.
28FF5F (base 16) HG Genuine Intelligent Terminal (Xiaogan) Co.,Ltd.
Building 62, YinHu Technology Industrial Park, No.38 XiaoHan Road, Xiaonan District, Xiaogan, Hubei P.R. China
Xiaogan Hubei 432000
CN

60-76-23 (hex) Shenzhen E-Superlink Technology Co., Ltd
607623 (base 16) Shenzhen E-Superlink Technology Co., Ltd
Floor11, NO.9996 Shen Nan Road, High Tech Park, Nan Shan District, Shen Zhen
ShenZhen Guangdong 518000
CN

74-92-BA (hex) Movesense Ltd
7492BA (base 16) Movesense Ltd
Tammiston kauppatie 7a
Vantaa 01510
FI

D0-48-4F (hex) Nokia Solutions and Networks GmbH & Co. KG
D0484F (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

2C-45-9A (hex) Dixon Technologies (India) Limited
2C459A (base 16) Dixon Technologies (India) Limited
B 14-15 Phase 2 NOIDA
GautamBudh Nagar Uttarpradesh 201305
IN

6C-6E-07 (hex) CE LINK LIMITED
6C6E07 (base 16) CE LINK LIMITED
2/F, Building G, Licheng Tech. Ind. Zone
Shenzhen Guangdong 518104
CN

6C-62-86 (hex) Nokia
6C6286 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

50-48-2C (hex) IEEE Registration Authority
50482C (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

98-8F-00 (hex) Aruba, a Hewlett Packard Enterprise Company
988F00 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

B8-FC-28 (hex) Valeo Vision Systems
B8FC28 (base 16) Valeo Vision Systems
Dunmore
Road
Tuam Co. Galway H54 Y276
IE

00-20-FC (hex) Matrox Central Services Inc
0020FC (base 16) Matrox Central Services Inc
1055 ST. REGIS
DORVAL QUEBEC H9P-2T4
CA

88-81-87 (hex) Umeox Innovations Co.,Ltd
888187 (base 16) Umeox Innovations Co.,Ltd
Room 1208-09, Research Building, Tsinghua Information Port, No. 1, Xindong Road, Nanshan District, Shenzhen
Shenzhen Guangdong 518000
CN

D4-0F-9E (hex) Apple, Inc.
D40F9E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

6C-A3-67 (hex) Avlinkpro
6CA367 (base 16) Avlinkpro
380 US Highway 46
Totowa NJ 07512
US

48-C4-61 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
48C461 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860

CN

B8-B7-DB (hex) GOIP Global Services Pvt. Ltd.
B8B7DB (base 16) GOIP Global Services Pvt. Ltd.
H68, Sector
63, Noida 201301
Noida Uttar Pradesh 201301
IN

88-0C-E0 (hex) Texas Instruments
880CE0 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

B8-3D-F6 (hex) Texas Instruments
B83DF6 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

B4-DD-E0 (hex) Shanghai Amphenol Airwave Communication Electronics Co.,Ltd.
B4DDE0 (base 16) Shanghai Amphenol Airwave Communication Electronics Co.,Ltd.
NO. 689 Shen Nan Road, Xin Zhuang Industry ParkShanghai 201108 P. R. China
Shanghai Shanghai 201108
CN

90-64-AD (hex) HUAWEI TECHNOLOGIES CO.,LTD
9064AD (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D4-D8-92 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D4D892 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

98-D3-D7 (hex) HUAWEI TECHNOLOGIES
CO.,LTD
98D3D7 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

88-6E-EB (hex) HUAWEI TECHNOLOGIES CO.,LTD
886EEB (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

98-0D-AF (hex) Apple, Inc.
980DAF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

DC-6D-BC (hex) Apple, Inc.
DC6DBC (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A4-D2-3E (hex) Apple, Inc.
A4D23E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

30-E0-4F (hex) Apple, Inc.
30E04F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

64-E4-A5 (hex) LG Electronics
64E4A5 (base 16) LG Electronics
222 LG-ro, JINWI-MYEON
Pyeongtaek-si Gyeonggi-do 451-713
KR

48-BD-CE (hex) Vantiva USA LLC
48BDCE
(base 16) Vantiva USA LLC
4855 Peachtree Industrial Blvd, Suite 20
Norcross GA 30902
US

94-04-E3 (hex) Vantiva USA LLC
9404E3 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

B4-2A-0E (hex) Vantiva USA LLC

B42A0E (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

60-3D-26 (hex) Vantiva USA LLC
603D26 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

54-A6-5C (hex) Vantiva USA LLC
54A65C (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

DC-EB-69 (hex) Vantiva USA LLC
DCEB69 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

94-6A-77 (hex) Vantiva USA LLC
946A77 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

D4-B9-2F (hex) Vantiva
USA LLC
D4B92F (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

58-96-30 (hex) Vantiva USA LLC
589630 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

98-9D-5D (hex) Vantiva USA LLC
989D5D (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

48-4B-D4 (hex) Vantiva USA LLC
484BD4 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

E0-DB-D1 (hex) Vantiva USA LLC
E0DBD1 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

EC-A8-1F (hex) Vantiva USA LLC
ECA81F (base 16) Vantiva USA LLC
4855 Peachtree Industrial Blvd, Suite 20
Norcross GA 30902
US

C4-27-95 (hex) Vantiva USA LLC
C42795 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

E0-88-5D (hex) Vantiva
USA LLC
E0885D (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

80-29-94 (hex) Vantiva USA LLC
802994 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

A0-25-D7 (hex) Aruba, a Hewlett Packard Enterprise Company
A025D7 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

E4-0D-3B (hex) Ericsson AB
E40D3B (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

EC-53-82 (hex) Honor Device Co., Ltd.
EC5382 (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District
Shenzhen Guangdong 518040
CN

9C-09-71 (hex) New H3C Technologies Co., Ltd
9C0971 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

98-AB-15
(hex) Fujian Youyike Technology Co.,Ltd
98AB15 (base 16) Fujian Youyike Technology Co.,Ltd
No. 97-1, Sizhi South Road, Liuyi Fourth Road, Lianqiao Village, Chengxi Street, Gutian County, Ningde City, Fujian Province
Ningde Fujian 352000
CN

00-18-AD (hex) NIDEC INSTRUMENTS CORPORATION
0018AD (base 16) NIDEC INSTRUMENTS CORPORATION
5329 Shimosuwa-cho
Suwa-gun Nagano 393-8511
JP

A4-CC-B3 (hex) Xiaomi Communications Co Ltd
A4CCB3 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

EC-E7-C2 (hex) China Mobile Group Device Co.,Ltd.
ECE7C2 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

BC-31-98 (hex) IEEE Registration Authority
BC3198 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

EC-A2-A0 (hex) Taicang T&W

Electronics
ECA2A0 (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

0C-70-43 (hex) Sony Interactive Entertainment Inc.
0C7043 (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

CC-40-85 (hex) WiZ
CC4085 (base 16) WiZ
Unit 1203-5, 12/F, Tower 1, Enterprise Square, 9 Sheung Yuet Road
Kowloon Bay Hong Kong 0000
HK

DC-CD-18 (hex) Nintendo Co.,Ltd
DCCD18 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

70-93-C1 (hex) eero inc.
7093C1 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

54-49-FC (hex) Ubee Interactive Co., Limited
5449FC (base 16) Ubee Interactive Co., Limited
Flat/RM 1202, 12/F, AT Tower
North Point Hong Kong 180
HK

4C-49-6C (hex) Intel Corporate
4C496C (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah
09000
MY

00-11-A9 (hex) Nurivoice Co., Ltd
0011A9 (base 16) Nurivoice Co., Ltd
NURI Bld, 16 Sapyeong-daero
Seoul Seocho-gu 06552
KR

18-F9-35 (hex) Cisco Systems, Inc
18F935 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

58-8B-1C (hex) Cisco Systems, Inc
588B1C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

C8-15-4E (hex) Intel Corporate
C8154E (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

78-9F-38 (hex) Shenzhen Feasycom Co., Ltd
789F38 (base 16) Shenzhen Feasycom Co., Ltd
Box 508, Building A, Phoenix Wisdom Valley, No. 50, Tiezi Road, Xixiang, Bao'an, Shenzhen
Shenzhen 518102
CN

54-4C-8A (hex) Microsoft Corporation
544C8A (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

90-70-D3 (hex) Fiberhome Telecommunication Technologies Co.,LTD
9070D3
(base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

6C-48-A6 (hex) Fiberhome Telecommunication Technologies Co.,LTD
6C48A6 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

3C-0D-2C (hex) Liquid-Markets GmbH
3C0D2C (base 16) Liquid-Markets GmbH
Obermühle 8
Baar Zug 6340

CH

FC-B9-DF (hex) Motorola Mobility LLC, a Lenovo Company
FCB9DF (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

D0-81-C5 (hex) Juniper Networks
D081C5 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

EC-67-94 (hex) Aruba, a Hewlett Packard Enterprise Company
EC6794 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

F4-BF-BB (hex) China Mobile Group Device Co.,Ltd.
F4BFBB (base
16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

84-AC-60 (hex) Guangxi Hesheng Electronics Co., Ltd.
84AC60 (base 16) Guangxi Hesheng Electronics Co., Ltd.
Hexin Tech Park, Binzhou Industrial Zone, Binyang County, Nanning City, Guangxi Zhuang Autonomous Region
Nanning 530000
CN

9C-A3-89 (hex) Nokia
9CA389 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

5C-10-1E (hex) zte corporation
5C101E (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

20-17-46 (hex) Paradromics, Inc.
201746 (base 16) Paradromics, Inc.
4030 W. Braker LaneBldg. 2 Suite 250

Austin TX 78759
US

C4-60-26 (hex) SKY UK LIMITED
C46026 (base 16) SKY UK LIMITED
Grant Way
Isleworth Middlesex TW7 5QD
GB

90-5A-08 (hex) Super Micro Computer, Inc.
905A08 (base 16) Super
Micro Computer, Inc.
980 Rock Ave
San Jose CA 95131
US

FC-F7-63 (hex) KunGao Micro (JiangSu) Co., LTd
FCF763 (base 16) KunGao Micro (JiangSu) Co., LTd
11th floor, Block C, Haichuang Building, #288 Dengyun Road, Yushan Town, Kunshan City
Kunshan Jiang Su 215300
CN

80-8C-97 (hex) Kaon Group Co., Ltd.
808C97 (base 16) Kaon Group Co., Ltd.
884-3, Seongnam-daero, Bundang-gu
Seongnam-si Gyeonggi-do 13517
KR

4C-12-E8 (hex) VIETNAM POST AND TELECOMMUNICATION INDUSTRY TECHNOLOGY JOIN STOCK COMPANY
4C12E8 (base 16) VIETNAM POST AND TELECOMMUNICATION INDUSTRY TECHNOLOGY JOIN STOCK COMPANY
High Tech Industrial Zone I, Hoa Lac High Tech Park, Ha Bang Commune
Ha Noi Thach That 100000
VN

20-02-FE (hex) Hangzhou Dangbei Network Technology Co., Ltd
2002FE (base 16) Hangzhou Dangbei Network Technology Co., Ltd
Floor 2, Block C, Wanfu Center, 228 Binkang Road, Binjiang District,
Hangzhou zhejiang 310051
CN

74-27-2C
(hex) Advanced Micro Devices, Inc.
74272C (base 16) Advanced Micro Devices, Inc.
7171 Southwest Pkwy
Austin TX 78735
US

20-88-10 (hex) Dell Inc.
208810 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

A0-62-60 (hex) Private
A06260 (base 16) Private

E4-45-19 (hex) Beijing Xiaomi Electronics Co.,Ltd
E44519 (base 16) Beijing Xiaomi Electronics Co.,Ltd
Xiaomi Campus
Beijing Beijing 100085
CN

C0-5B-44 (hex) Beijing Xiaomi Mobile Software Co., Ltd
C05B44 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

E4-B2-24 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E4B224 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-3E-D3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A83ED3 (base 16) HUAWEI TECHNOLOGIES
CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

64-67-CD (hex) HUAWEI TECHNOLOGIES CO.,LTD
6467CD (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

34-EC-B6 (hex) Phyplus Microelectronics Limited
34ECB6 (base 16) Phyplus Microelectronics Limited
304 Building 1 No.608 Sheng Xia Road
Shanghai 200000
CN

4C-D2-FB (hex) UNIONMAN TECHNOLOGY CO.,LTD

4CD2FB (base 16) UNIONMAN TECHNOLOGY CO.,LTD
No.5,Huitai Road,Huinan High-Tech Park,Huiao Highway
Huizhou Guangdong 516025
CN

9C-1E-CF (hex) Valeo Telematik und Akustik GmbH
9C1ECF (base 16) Valeo Telematik und Akustik GmbH
Max-Planck-Straße 28-32
Friedrichsdorf 61381
DE

00-0D-39 (hex) Nevion
000D39 (base 16) Nevion
Lysaker Torg 5
Lysaker NO-1366
NO

80-76-77 (hex) hangzhou puwell cloud tech co., ltd.
807677
(base 16) hangzhou puwell cloud tech co., ltd.
1405 Chuling Data Mansion Wulianwang street 259
Hangzhou Zhejiang 315000
CN

F4-2B-8C (hex) Samsung Electronics Co.,Ltd
F42B8C (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E4-1A-1D (hex) NOVEA ENERGIES
E41A1D (base 16) NOVEA ENERGIES
3rue Joseph Fourier
BEAUCOUZE Pays de la Loire 49070
FR

F4-CA-E7 (hex) Arcadyan Corporation
F4CAE7 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

3C-EF-42 (hex) TCT mobile ltd
3CEF42 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

B0-A3-F2 (hex) Huaqin Technology Co. LTD
B0A3F2 (base 16) Huaqin Technology Co. LTD
11th Floor, Unit, No.399 Keyuan Road
Pudong Shanghai 201203
CN

F8-66-91 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
F86691
(base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

E4-38-19 (hex) Shenzhen Hi-Link Electronic CO.,Ltd.
E43819 (base 16) Shenzhen Hi-Link Electronic CO.,Ltd.
Room 1705, 1706, 1709A, 17th Floor, Building E, Xinghe WORLD, Minle Community, Minzhi Street, Longhua District
Shenzhen Guangdong 518000
CN

84-F1-75 (hex) Jiangxi Xunte Intelligent Terminal Co., Ltd
84F175 (base 16) Jiangxi Xunte Intelligent Terminal Co., Ltd
16 # 1-3/F, Zhongxing Nanchang Software Industrial Park, No. 688, Aixihu North Road, Nanchang High-tech Industrial Development Zone, Nanchang, Jiangxi Province
Nanchang Jiangxi 330000
CN

C8-98-28 (hex) zte corporation
C89828 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

DC-36-42 (hex) zte corporation
DC3642 (base 16) zte corporation
12/F.,zte
R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

78-8A-86 (hex) China Dragon Technology Limited
788A86 (base 16) China Dragon Technology Limited
B4 Bldg.Haoshan 1st Industry Park,
Shenzhen Guangdong 518104
CN

60-82-46 (hex) Apple, Inc.
608246 (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

98-B3-79 (hex) Apple, Inc.
98B379 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

6C-2A-DF (hex) IEEE Registration Authority
6C2ADF (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

84-72-93 (hex) Texas Instruments
847293 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

60-DC-81 (hex) AltoBeam Inc.
60DC81 (base 16) AltoBeam Inc.
B808, Tsinghua Tongfang Hi-Tech Plaza, Haidian
Beijing Beijing 100083
CN

20-E4-6F (hex) vivo Mobile Communication
Co., Ltd.
20E46F (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

88-30-37 (hex) Juniper Networks
883037 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

E8-24-04 (hex) Quectel Wireless Solutions Co.,Ltd.
E82404 (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

F8-2E-0C (hex) Texas Instruments

F82E0C (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

90-06-F2 (hex) Texas Instruments
9006F2 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

E8-6E-3A (hex) Sony Interactive Entertainment Inc.
E86E3A (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

BC-B1-D3 (hex) Cisco Meraki
BCB1D3 (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San
Francisco 94158
US

B8-7B-D4 (hex) Google, Inc.
B87BD4 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

C8-13-8B (hex) Shenzhen Skyworth Digital Technology CO., Ltd
C8138B (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

34-AA-31 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
34AA31 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

A0-4C-0C (hex) Shenzhen Skyworth Digital Technology CO., Ltd
A04C0C (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

6C-C2-42 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
6CC242 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

04-9D-05
(hex) Apple, Inc.
049D05 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E0-73-E7 (hex) HP Inc.
E073E7 (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

54-08-3B (hex) IEEE Registration Authority
54083B (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

54-EF-43 (hex) HUAWEI TECHNOLOGIES CO.,LTD
54EF43 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D8-1B-B5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D81BB5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

84-64-DD (hex) HUAWEI TECHNOLOGIES CO.,LTD
8464DD (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

68-A4-6A (hex) HUAWEI TECHNOLOGIES CO.,LTD
68A46A
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

F4-8E-38 (hex) Dell Inc.
F48E38 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

28-F1-0E (hex) Dell Inc.
28F10E (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

90-B1-1C (hex) Dell Inc.
90B11C (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

64-00-6A (hex) Dell Inc.
64006A (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

10-98-36 (hex) Dell Inc.
109836 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

C8-1F-66 (hex) Dell Inc.
C81F66 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

F8-DB-88 (hex) Dell Inc.
F8DB88 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

00-14-22 (hex) Dell Inc.
001422 (base 16) Dell Inc.
One Dell Way
Round

Rock TX 78682
US

00-15-C5 (hex) Dell Inc.
0015C5 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

78-45-C4 (hex) Dell Inc.
7845C4 (base 16) Dell Inc.
One Dell way
Round Rock 78682
US

5C-26-0A (hex) Dell Inc.
5C260A (base 16) Dell Inc.
One Dell Way, MS RR5-45
Round Rock 78682
US

00-1E-4F (hex) Dell Inc.
001E4F (base 16) Dell Inc.
One Dell Way, MS RR5-45
Round Rock 78682
US

00-26-B9 (hex) Dell Inc.
0026B9 (base 16) Dell Inc.
One Dell Way, MS RR5-45
Round Rock 78682
US

D0-67-E5 (hex) Dell Inc.
D067E5 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

54-4E-45 (hex) Private
544E45 (base 16) Private

20-97-27 (hex) TELTONIKA NETWORKS UAB
209727 (base 16) TELTONIKA NETWORKS UAB
K. Baršausko st. 66, Kaunas
Kaunas LT-51436
LT

00-1A-E8 (hex) Unify Software and Solutions GmbH & Co. KG
001AE8 (base
16) Unify Software and Solutions GmbH & Co. KG
Otto-Hahn-Ring 6
Munich 81739
DE

2C-FE-4F (hex) Xiaomi Communications Co Ltd
2CFE4F (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

90-7E-43 (hex) zte corporation
907E43 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

94-3E-E4 (hex) WiSA Technologies Inc
943EE4 (base 16) WiSA Technologies Inc
15268 Northwest Greenbrier Parkway
Beaverton OR 97006
US

A8-BD-3A (hex) UNION MAN TECHNOLOGY CO.,LTD
A8BD3A (base 16) UNION MAN TECHNOLOGY CO.,LTD
18F, HUAYANG TOWER,YANDAYI ROAD
Huizhou Guangdong 516007
CN

48-CA-C6 (hex) UNION MAN TECHNOLOGY CO.,LTD
48CAC6 (base 16) UNION MAN TECHNOLOGY CO.,LTD
No.5,Huitai Road,Huinan High-Tech Park,Huiao Highway
Huizhou Guangdong 516025
CN

D4-38-44
(hex) UNION MAN TECHNOLOGY CO.,LTD
D43844 (base 16) UNION MAN TECHNOLOGY CO.,LTD
No.5,Huitai Road,Huinan High-Tech Park,Huiao Highway
Huizhou Guangdong 516025
CN

6C-3C-8C (hex) Dell Inc.
6C3C8C (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682

US

C4-5A-B1 (hex) Dell Inc.
C45AB1 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

A8-B0-28 (hex) CubePilot Pty Ltd
A8B028 (base 16) CubePilot Pty Ltd
153 Mercer Street
Geelong Victoria 3220
AU

40-7F-5F (hex) Juniper Networks
407F5F (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

2C-EA-7F (hex) Dell Inc.
2CEA7F (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

F0-D4-E2 (hex) Dell Inc.
F0D4E2 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

CC-48-3A (hex) Dell Inc.
CC483A (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

30-D0-42
(hex) Dell Inc.
30D042 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

8C-04-BA (hex) Dell Inc.
8C04BA (base 16) Dell Inc.
One Dell Way

Round Rock TX 78682
US

E4-54-E8 (hex) Dell Inc.
E454E8 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

A4-BB-6D (hex) Dell Inc.
A4BB6D (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

E4-43-4B (hex) Dell Inc.
E4434B (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

E0-1F-6A (hex) Huawei Device Co., Ltd.
E01F6A (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

00-56-6D (hex) Huawei Device Co., Ltd.
00566D (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

90-CC-7A (hex) Huawei Device Co., Ltd.
90CC7A (base 16) Huawei Device Co., Ltd.
No.2
of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

8C-C5-8C (hex) ShenZhen Elsky Technology Co.,LTD
8CC58C (base 16) ShenZhen Elsky Technology Co.,LTD
401, building A, wanguocheng, No. 9, Pingji Avenue, Shanglilang community, Nanwan street, Longgang District, Shenzhen
ShenZhen GuangDong 518000
CN

2C-70-4F (hex) zte corporation

2C704F (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

64-52-34 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
645234 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

38-16-72 (hex) Shenzhen SuperElectron Technology Co.,Ltd.
381672 (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen
Guangdong 518000
CN

6C-29-D2 (hex) Cisco Systems, Inc
6C29D2 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

08-CC-81 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
08CC81 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

F4-54-33 (hex) Rockwell Automation
F45433 (base 16) Rockwell Automation
1 Allen-Bradley Dr.
Mayfield Heights OH 44124-6118
US

34-C0-F9 (hex) Rockwell Automation
34C0F9 (base 16) Rockwell Automation
1 Allen-Bradley Dr.
Mayfield Heights OH 44124-6118
US

5C-88-16 (hex) Rockwell Automation
5C8816 (base 16) Rockwell Automation
1 Allen-Bradley Dr.
Mayfield Heights OH 44124-6118
US

08-15-AE (hex) China Mobile Group Device Co.,Ltd.
0815AE (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

04-B4-FE
(hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
04B4FE (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

D4-53-47 (hex) Merytronic 2012, S.L.
D45347 (base 16) Merytronic 2012, S.L.
Parque empresarial BoroaParcela 2C-1
Amorebieta Bizkaia 48340
ES

D0-7B-6F (hex) Zhuhai Yunmai Technology Co.,Ltd
D07B6F (base 16) Zhuhai Yunmai Technology Co.,Ltd
Unit 1201-1203, Youte Headquarters Building, No. 88 Xingye Road, Xiangzhou District
Zhuhai Guangdong 519000
CN

04-A5-26 (hex) Nokia
04A526 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

20-BA-36 (hex) u-blox AG
20BA36 (base 16) u-blox AG
Zuercherstrasse, 68
Thalwil Switzerland CH-8800
CH

D8-0A-E6 (hex) zte corporation
D80AE6 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

48-9E-9D
(hex) Hui Zhou Gaoshengda Technology Co.,LTD
489E9D (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.2,Jin-da Road,Huinan Industrial Park
Hui Zhou Guangdong 516025

CN

C0-DD-8A (hex) Meta Platforms Technologies, LLC
C0DD8A (base 16) Meta Platforms Technologies, LLC
1601 Willow Rd
Menlo Park CA 94025
US

CC-A1-74 (hex) Meta Platforms Technologies, LLC
CCA174 (base 16) Meta Platforms Technologies, LLC
1601 Willow Rd
Menlo Park CA 94025
US

18-F4-6B (hex) Telenor Connexion AB
18F46B (base 16) Telenor Connexion AB
116 88
Stockholm Sverige SE-116 88
SE

28-EA-0B (hex) Microsoft Corporation
28EA0B (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

A4-14-37 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
A41437 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.469,Jianghui Road
Hangzhou Zhejiang 310052
CN

F8-4D-FC (hex) Hangzhou
Hikvision Digital Technology Co.,Ltd.
F84DFC (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

84-9A-40 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
849A40 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

C0-51-7E (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
C0517E (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road

Hangzhou Zhejiang 310052
CN

2C-A5-9C (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
2CA59C (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

40-AC-BF (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
40ACBF (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

98-F1-12 (hex) Hangzhou Hikvision
Digital Technology Co.,Ltd.
98F112 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

98-9D-E5 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
989DE5 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

3C-1B-F8 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
3C1BF8 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

9C-65-EE (hex) DZS Inc.
9C65EE (base 16) DZS Inc.
DASAN Tower 8F, 49 Daewangpangyo-ro644beon-gil Bundang-gu
Seongnam-si Gyeonggi-do 13493
KR

9C-54-16 (hex) Cisco Systems, Inc
9C5416 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

48-BD-A7 (hex) Honor Device Co., Ltd.
48BDA7 (base 16) Honor Device Co., Ltd.

Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089,
Hongli West Road, Xiangmihu Street, Futian District
Shenzhen Guangdong 518040
CN

EC-21-50 (hex) vivo Mobile Communication Co., Ltd.
EC2150 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

A0-AF-12 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A0AF12 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

60-96-A4 (hex) HUAWEI TECHNOLOGIES CO.,LTD
6096A4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

5C-5E-AB (hex) Juniper Networks
5C5EAB (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

78-19-F7 (hex) Juniper Networks
7819F7 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

2C-21-72 (hex) Juniper Networks
2C2172 (base 16) Juniper Networks
1133
Innovation Way
Sunnyvale CA 94089
US

4C-96-14 (hex) Juniper Networks
4C9614 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

78-45-58 (hex) Ubiquiti Inc
784558 (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

AC-8B-A9 (hex) Ubiquiti Inc
AC8BA9 (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

9C-05-D6 (hex) Ubiquiti Inc
9C05D6 (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

28-70-4E (hex) Ubiquiti Inc
28704E (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

00-17-CB (hex) Juniper Networks
0017CB (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

00-1F-12 (hex) Juniper Networks
001F12 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale
CA 94089
US

00-24-DC (hex) Juniper Networks
0024DC (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

00-12-1E (hex) Juniper Networks
00121E (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

00-10-DB (hex) Juniper Networks
0010DB (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

00-22-83 (hex) Juniper Networks
002283 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

10-0E-7E (hex) Juniper Networks
100E7E (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

44-F4-77 (hex) Juniper Networks
44F477 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

5C-6A-EC (hex) IEEE Registration Authority
5C6AEC (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

CC-9F-7A (hex) Chiun Mai Communication System,
Inc
CC9F7A (base 16) Chiun Mai Communication System, Inc
No.4, Minsheng St., Tucheng District
New Taipei City 23678
TW

54-14-A7 (hex) Nanjing Qinheng Microelectronics Co., Ltd.
5414A7 (base 16) Nanjing Qinheng Microelectronics Co., Ltd.
No.18, Ningshuang Road
Nanjing Jiangsu 210012
CN

4C-E7-05 (hex) Siemens Industrial Automation Products Ltd., Chengdu
4CE705 (base 16) Siemens Industrial Automation Products Ltd., Chengdu
Tianyuan Road No.99, High Tech Zone West
Chengdu Sichuan Province 611731

CN

0C-72-74 (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
0C7274 (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

80-DB-17 (hex) Juniper Networks
80DB17 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

B8-F0-15 (hex) Juniper Networks
B8F015 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale
CA 94089
US

E4-23-3C (hex) Juniper Networks
E4233C (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

98-86-8B (hex) Juniper Networks
98868B (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

00-58-28 (hex) Axon Networks Inc.
005828 (base 16) Axon Networks Inc.
15420 Laguna Canyon rd.
Irvine CA 92618
US

30-B6-4F (hex) Juniper Networks
30B64F (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

08-B2-58 (hex) Juniper Networks
08B258 (base 16) Juniper Networks
1133 Innovation Way

Sunnyvale CA 94089
US

F4-A7-39 (hex) Juniper Networks
F4A739 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

4C-16-FC (hex) Juniper Networks
4C16FC (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

C8-E7-F0 (hex) Juniper Networks
C8E7F0
(base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

7C-25-86 (hex) Juniper Networks
7C2586 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

EC-38-73 (hex) Juniper Networks
EC3873 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

C0-03-80 (hex) Juniper Networks
C00380 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

20-D8-0B (hex) Juniper Networks
20D80B (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

94-BF-94 (hex) Juniper Networks
94BF94 (base 16) Juniper Networks

1133 Innovation Way
Sunnyvale CA 94089
US

4C-6D-58 (hex) Juniper Networks
4C6D58 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

40-8F-9D (hex) Juniper Networks
408F9D (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

AC-78-D1
(hex) Juniper Networks
AC78D1 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

68-22-8E (hex) Juniper Networks
68228E (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

D8-53-9A (hex) Juniper Networks
D8539A (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

F8-C1-16 (hex) Juniper Networks
F8C116 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

88-0A-A3 (hex) Juniper Networks
880AA3 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

FC-33-42 (hex) Juniper Networks

FC3342 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

3C-8C-93 (hex) Juniper Networks
3C8C93 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

0C-81-26 (hex) Juniper Networks
0C8126 (base 16) Juniper Networks
1133
Innovation Way
Sunnyvale CA 94089
US

18-2A-D3 (hex) Juniper Networks
182AD3 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

74-95-A7 (hex) Keyence Corporation
7495A7 (base 16) Keyence Corporation
1-3-14, Higashinakajima, Higashiyodogawa
Osaka Osaka 5338555
JP

A0-A3-B3 (hex) Espressif Inc.
A0A3B3 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

34-98-7A (hex) Espressif Inc.
34987A (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

68-59-32 (hex) Sunitec Enterprise Co.,Ltd
685932 (base 16) Sunitec Enterprise Co.,Ltd
3F.,No.98-1,Mincyuan Rd.Sindian City
Taipei County 231 231141
CN

B4-B9-E6 (hex) eero inc.
B4B9E6 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

30-B2-16 (hex) Hitachi Energy Germany
AG
30B216 (base 16) Hitachi Energy Germany AG
Havellandstr. 10-14
Mannheim 68309
DE

88-62-5D (hex) BITNETWORKS CO.,LTD
88625D (base 16) BITNETWORKS CO.,LTD
No.606, 83, Samwon-ro, Deogyang-gu, Goyang-si, Gyeonggi-do,Korea
Goyang-si 10550
KR

38-07-16 (hex) FREEBOX SAS
380716 (base 16) FREEBOX SAS
16 rue de la Ville l'Eveque
PARIS IdF 75008
FR

C8-36-A3 (hex) GERTEC BRASIL LTDA
C836A3 (base 16) GERTEC BRASIL LTDA
Avenida Jabaquara, 3060, room 601
Sao Paulo São Paulo 04046500
BR

F4-EE-31 (hex) Cisco Systems, Inc
F4EE31 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

40-45-C4 (hex) HUAWEI TECHNOLOGIES CO.,LTD
4045C4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

74-87-2E (hex) HUAWEI TECHNOLOGIES CO.,LTD
74872E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2
Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

3C-1E-B5 (hex) Apple, Inc.
3C1EB5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-86-A3 (hex) Apple, Inc.
AC86A3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-1F-D6 (hex) Shenzhen Allywll
001FD6 (base 16) Shenzhen Allywll
Kejiyuan Nanshan
Shenzhen Guangdong 518057
CN

80-D2-66 (hex) ScaleFlux
80D266 (base 16) ScaleFlux
900 N. McCarthy Blvd.Suite 200
Milpitas CA 95035
US

E4-21-50 (hex) Shanghai Chint low voltage electrical technology Co.,Ltd.
E42150 (base 16) Shanghai Chint low voltage electrical technology Co.,Ltd.
3857 Sixian Road, Songjiang District, Shanghai
Shanghai Shanghai 201616
CN

D4-04-E6 (hex) Broadcom Limited
D404E6 (base 16) Broadcom Limited
15191 Alton Parkway
Irvine CA 92618
US

28-EB-A6 (hex) Nex-T LLC
28EBA6 (base
16) Nex-T LLC
Volgogradsky prospect, 42, building 5, floor 1, room I
Moscow Select State 109316
RU

C0-B3-C8 (hex) LLC NTC Rotek
C0B3C8 (base 16) LLC NTC Rotek
Russian Federation, Moscow, Nizhnyaya Krasnoselskaya st., house 5, building 6, room 03

Moscow 107140
RU

CC-4D-74 (hex) Fujian Newland Payment Technology Co., Ltd.
CC4D74 (base 16) Fujian Newland Payment Technology Co., Ltd.
No. B602, Building #1, HaixiaJingmao Plaza, Fuzhou Bonded Area
Fuzhou 350015
CN

A0-31-EB (hex) Semikron Elektronik GmbH & Co. KG
A031EB (base 16) Semikron Elektronik GmbH & Co. KG
Sigmundstrasse 200
Nürnberg Bavaria 90431
DE

F8-D7-58 (hex) Veratron AG
F8D758 (base 16) Veratron AG
Industriestrasse 18
Rüthi St.Gallen 9464
CH

24-FE-9A (hex) CyberTAN Technology Inc.
24FE9A (base 16) CyberTAN Technology Inc.
99 Park Ave III, Hsinchu Science Park
Hsinchu 308
TW

B4-CB-B8 (hex) Universal
Electronics, Inc.
B4CBB8 (base 16) Universal Electronics, Inc.
201 E Sandpointe Ave
SANTA ANA CA 927075778
US

BC-32-B2 (hex) Samsung Electronics Co.,Ltd
BC32B2 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E8-10-98 (hex) Aruba, a Hewlett Packard Enterprise Company
E81098 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

EC-8A-48 (hex) Arista Networks
EC8A48 (base 16) Arista Networks

5453 Great America Parkway
Santa Clara CA 95054
US

14-1A-97 (hex) Apple, Inc.
141A97 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

8C-5D-B2 (hex) IEEE Registration Authority
8C5DB2 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

88-CE-3F (hex) HUAWEI TECHNOLOGIES CO.,LTD
88CE3F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room
R6,Songshan Lake Technology Park
Dongguan 523808
CN

EC-F8-D0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
ECF8D0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

30-DF-17 (hex) ALPSALPINE CO,.LTD
30DF17 (base 16) ALPSALPINE CO,.LTD
nishida 6-1
kakuda-City Miyagi-Pref 981-1595
JP

D8-02-8A (hex) Shenzhen YOUHUA Technology Co., Ltd
D8028A (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

B8-3C-28 (hex) Apple, Inc.
B83C28 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

3C-6D-89 (hex) Apple, Inc.

3C6D89 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-45-00 (hex) Apple, Inc.
AC4500 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E8-65-38
(hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
E86538 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

24-2A-04 (hex) Cisco Systems, Inc
242A04 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

14-1A-AA (hex) Metal Work SpA
141AAA (base 16) Metal Work SpA
Via Segni 5-7-9 25062 Concesio
Brescia Italy 25062
IT

CC-DE-DE (hex) Nokia
CCDEDE (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

74-86-69 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
748669 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

C8-0A-35 (hex) Qingdao Hisense Smart Life Technology Co., Ltd
C80A35 (base 16) Qingdao Hisense Smart Life Technology Co., Ltd
No.399,
Songling Road, Laoshan District
Qingdao Shandong 266100
CN

88-6D-2D (hex) Huawei Device Co., Ltd.
886D2D (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

40-FF-40 (hex) GloquadTech
40FF40 (base 16) GloquadTech
801, Tower-A, 58-1, Giheung-ro, Giheung-gu, Yongin-si, Gyeonggi-do, 16976, Republic of Korea
Yongin-si Gyeonggi-do 16976
KR

24-95-2F (hex) Google, Inc.
24952F (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

10-BE-99 (hex) Netberg
10BE99 (base 16) Netberg
2F-1 No.36, Park St., Nangang District
Taipei 11560
TW

60-DE-F4 (hex) Shenzhen iComm Semiconductor CO.,LTD
60DEF4 (base 16) Shenzhen iComm Semiconductor CO.,LTD
Room 601,Block B ,Digital Building,Garden City
Shenzhen No.1079 Nanhai Road,Nanshan District 518067
CN

84-D3-52 (hex) Tonly Technology Co. Ltd
84D352 (base
16) Tonly Technology Co. Ltd
Section 37, Zhongkai Hi-Tech Development Zone
Huizhou Guangdong 516006
CN

04-70-56 (hex) Arcadyan Corporation
047056 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

B8-94-D9 (hex) Texas Instruments
B894D9 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243

US

7C-E2-69 (hex) Texas Instruments
7CE269 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

08-04-B4 (hex) Texas Instruments
0804B4 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

30-AF-7E (hex) Texas Instruments
30AF7E (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

84-B1-E4 (hex) Apple, Inc.
84B1E4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

54-EB-E9 (hex) Apple, Inc.
54EBE9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-16-15
(hex) Apple, Inc.
AC1615 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

EC-73-79 (hex) Apple, Inc.
EC7379 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

1C-C3-16 (hex) Xiamen Milesight IoT Co., Ltd.
1CC316 (base 16) Xiamen Milesight IoT Co., Ltd.
Building C09, Software Park Phase III

Xiamen Fujian 361024
CN

3C-6A-48 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
3C6A48 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

FC-2A-46 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
FC2A46 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

9C-FA-3C (hex) Daeyoung Electronics
9CFA3C (base 16) Daeyoung Electronics
Pyeongdongsandan
8beon-ro 54-5
Gwangju 62466
KR

28-CF-51 (hex) Nintendo Co.,Ltd
28CF51 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

FC-B0-DE (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
FCB0DE (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

04-4A-6A (hex) niliwi nanjing big data Co,.Ltd
044A6A (base 16) niliwi nanjing big data Co,.Ltd
Building 6, No. 699-27, Xuanwu Avenue, Xuanwu District, Nanjing
Nanjing Jangsu 210023
CN

64-C6-D2 (hex) Seiko Epson Corporation
64C6D2 (base 16) Seiko Epson Corporation
2070 Kotobuki Koaka
Matsumoto-shi Nagano-ken 399-8702
JP

0C-35-26 (hex) Microsoft Corporation
0C3526 (base 16) Microsoft Corporation

One Microsoft Way
REDMOND WA 98052
US

80-61-6C (hex) New
H3C Technologies Co., Ltd
80616C (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

40-B6-07 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
40B607 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

48-1F-66 (hex) China Mobile Group Device Co.,Ltd.
481F66 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

78-24-59 (hex) Alcatel-Lucent Enterprise
782459 (base 16) Alcatel-Lucent Enterprise
26801 West Agoura Rd
Calabasas CA 91301
US

F4-4D-5C (hex) Zyxel Communications Corporation
F44D5C (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

10-68-38 (hex) AzureWave Technology Inc.
106838 (base 16) AzureWave Technology Inc.
8F., No.94, Baozhong
Rd., Xindian
Taipei 231
US

78-07-1C (hex) Green Energy Options Ltd
78071C (base 16) Green Energy Options Ltd
3 St. Mary's Court, Main Street
Cambridge Cambridgeshire CB23 7QS
GB

1C-8B-EF (hex) Beijing Xiaomi Electronics Co.,Ltd
1C8BEF (base 16) Beijing Xiaomi Electronics Co.,Ltd
Xiaomi Campus
Beijing Beijing 100085
CN

28-E2-97 (hex) Shanghai InfoTM Microelectronics Co.,Ltd
28E297 (base 16) Shanghai InfoTM Microelectronics Co.,Ltd
building 11,NO.115,lane 572,BiBo Road,
ShangHai 201203
CN

58-F8-5C (hex) LLC Proizvodstvennaya Kompania TransService
58F85C (base 16) LLC Proizvodstvennaya Kompania TransService
Ulitsa Podolskih Kursantov, build. 3, of. 133
Moscow Moscow 117545
RU

30-44-49 (hex) PLATH Signal Products GmbH & Co. KG
304449 (base 16) PLATH Signal Products GmbH & Co. KG
Gotenstrasse 18
Hamburg 20097
DE

EC-C3-B0 (hex) zte corporation
ECC3B0 (base
16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

BC-BD-84 (hex) zte corporation
BCBD84 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

5C-B1-2E (hex) Cisco Systems, Inc
5CB12E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

BC-6B-FF (hex) Guangzhou Shiyuan Electronic Technology Company Limited
BC6BFF (base 16) Guangzhou Shiyuan Electronic Technology Company Limited
No.6, 4th Yunpu Road, Yunpu industry District
Guangzhou Guangdong 510530
CN

00-30-1A (hex) SMARTBRIDGES PTE. LTD.
00301A (base 16) SMARTBRIDGES PTE. LTD.
745 Toa Payoh Lorong 5
319455
SG

B4-57-E6 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
B457E6 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG
DONG 523860
CN

70-03-3F (hex) Pimax Technology(ShangHai)Co.,Ltd
70033F (base 16) Pimax Technology(ShangHai)Co.,Ltd
3000 Longdong Avenue,Pudong New Area
Shanghai 200120
CN

80-F1-A4 (hex) HUAWEI TECHNOLOGIES CO.,LTD
80F1A4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A4-6C-24 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A46C24 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

08-7B-12 (hex) Sagemcom Broadband SAS
087B12 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

50-D4-5C (hex) Amazon Technologies Inc.
50D45C (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

44-D5-06 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
44D506 (base 16) Sichuan Tianyi Comheart Telecom
Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County

Chengdu Sichuan 611330
CN

2C-69-CC (hex) Valeo Detection Systems
2C69CC (base 16) Valeo Detection Systems
Laiernstrasse 12
Bietigheim-Bissingen baden württemberg 74321
DE

D4-61-37 (hex) IEEE Registration Authority
D46137 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

08-08-5C (hex) Luna Products
08085C (base 16) Luna Products
3145 Tiger Run Ct, Ste 110
Carlsbad CA 92010
US

2C-8A-C7 (hex) Ubee Interactive Co., Limited
2C8AC7 (base 16) Ubee Interactive Co., Limited
Flat/RM 1202, 12/F, AT Tower, 180 Electric Road
North Point 00000
HK

D0-CF-0E (hex) Sagemcom Broadband SAS
D0CF0E (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

10-5F-02 (hex) Private
105F02 (base 16) Private

80-DE-CC (hex) HYBE
Co.,LTD
80DECC (base 16) HYBE Co.,LTD
42, Hangang-daero
Yongsan-gu Seoul 04389
KR

A0-ED-6D (hex) Ubee Interactive Co., Limited
A0ED6D (base 16) Ubee Interactive Co., Limited
Flat/RM 1202, 12/F, AT Tower, 180 Electric Road
North Point 00000
HK

C4-EB-42 (hex) Sagemcom Broadband SAS
C4EB42 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

F8-34-5A (hex) Hitron Technologies. Inc
F8345A (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

70-C9-32 (hex) Dreame Technology (Suzhou) Limited
70C932 (base 16) Dreame Technology (Suzhou) Limited
Shangjiwan Headquarter, Building E3 Economic Garden, 2288 Wuzhong Blvd
Suzhou Jiangsu 215000
CN

30-19-84 (hex) HUAWEI TECHNOLOGIES CO.,LTD
301984 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng
Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F8-C2-49 (hex) AMPERE COMPUTING LLC
F8C249 (base 16) AMPERE COMPUTING LLC
4555 GREAT AMERICA PARKWAY
SANTA CLARA CA 95054
US

64-8C-BB (hex) Texas Instruments
648CBB (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

74-B8-39 (hex) Texas Instruments
74B839 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

C4-D3-6A (hex) Texas Instruments
C4D36A (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243

US

98-89-24 (hex) Texas Instruments
988924 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

34-15-93 (hex) Ruckus Wireless
341593 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

B0-8B-BE (hex) ABL GmbH
B08BBE (base 16) ABL GmbH
Albert-Buettner-Str. 11
Lauf 91207
DE

0C-B9-37 (hex) Ubee Interactive Co.,
Limited
0CB937 (base 16) Ubee Interactive Co., Limited
Flat/RM 1202, 12/F, AT Tower
North Point Hong Kong 180
HK

44-0C-EE (hex) Robert Bosch Elektronikai Kft.
440CEE (base 16) Robert Bosch Elektronikai Kft.
Robert Bosch u. 1.
Hatvan Heves County 3000
HU

A0-17-F1 (hex) Allwinner Technology Co., Ltd
A017F1 (base 16) Allwinner Technology Co., Ltd
No.9 Technology Road 2, High-Tech Zone
Zhuhai Guangdong 519085
CN

2C-6F-4E (hex) Hubei Yuan Times Technology Co.,Ltd.
2C6F4E (base 16) Hubei Yuan Times Technology Co.,Ltd.
No. B1345, Chuanggu Start-up Area, Taizi Lake Cultural and Digital Creative Industry Park, No. 18 Shenlong Avenue, Wuhan Economic & Technological Development Zone
wuhan hubei 430050
CN

48-8F-4C (hex) shenzhen trolink Technology Co.,Ltd
488F4C (base 16) shenzhen trolink Technology Co.,Ltd

F/5 Building -E ,Fenda Hight Technology Park,Sanwei Hangcheng Street,Bao'an ,Shenzhen

shenzhen gangdong 518101
CN

74-4D-6D (hex) HUAWEI TECHNOLOGIES CO.,LTD
744D6D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-35-D9 (hex) Apple, Inc.
C435D9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-C9-06 (hex) Apple, Inc.
ACC906 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

04-BC-6D (hex) Apple, Inc.
04BC6D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A8-F1-B2 (hex) Allwinner Technology Co., Ltd
A8F1B2 (base 16) Allwinner Technology Co., Ltd
No.9 Technology Road 2, High-Tech Zone
Zhuhai Guangdong 519085
CN

FC-E9-D8 (hex) Amazon Technologies Inc.
FCE9D8 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

64-29-43 (hex) D-Link Corporation
642943 (base 16) D-Link Corporation
No.289, Sinhu 3rd Rd.,
Neihu District,
Taipei City 114
TW

58-5B-69 (hex) TVT CO., LTD
585B69 (base 16) TVT CO., LTD
23rd Floor Building B4 Block 9, Shenzhen Bay science and technology ecological garden, Nanshan District, Shenzhen Guangdong 518057
CN

B8-B2-F7 (hex) DRIMAES INC.
B8B2F7 (base 16) DRIMAES INC.
#301, 19, Seongsuil-ro, Seongdong-gu
SEOUL 04779
KR

C4-98-94 (hex) IEEE Registration Authority
C49894 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

8C-FA-DD (hex) HUAWEI TECHNOLOGIES CO.,LTD
8CFADD (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F8-9A-25 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F89A25 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

08-3A-8D (hex) Espressif Inc.
083A8D (base 16) Espressif Inc.
Room
204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

84-23-88 (hex) Ruckus Wireless
842388 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

38-65-04 (hex) Honor Device Co., Ltd.
386504 (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District
Shenzhen Guangdong 518040

CN

38-BD-7A (hex) Aruba, a Hewlett Packard Enterprise Company
38BD7A (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

F8-71-0C (hex) Xiaomi Communications Co Ltd
F8710C (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

3C-13-5A (hex) Xiaomi Communications Co Ltd
3C135A (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle
Road
Beijing Haidian District 100085
CN

90-F8-2E (hex) Amazon Technologies Inc.
90F82E (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

C0-84-E0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C084E0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

90-01-17 (hex) HUAWEI TECHNOLOGIES CO.,LTD
900117 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E0-B6-68 (hex) zte corporation
E0B668 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

A4-9D-DD (hex) Samsung Electronics Co.,Ltd
A49DDD (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong

Gumi Gyeongbuk 730-350
KR

6C-55-63 (hex) Samsung Electronics Co.,Ltd
6C5563 (base 16) Samsung Electronics Co.,Ltd
#94-1,
Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

10-9F-4F (hex) New H3C Intelligence Terminal Co., Ltd.
109F4F (base 16) New H3C Intelligence Terminal Co., Ltd.
Room 406-100, 1 Yichuang Street, China-Singapore Guangzhou Knowledge City, Huangpu District, Guangzhou.
Guangzhou Guangdong 510030
CN

38-9E-80 (hex) zte corporation
389E80 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

88-0F-A2 (hex) Sagemcom Broadband SAS
880FA2 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

DC-97-E6 (hex) Sagemcom Broadband SAS
DC97E6 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

D4-92-B9 (hex) ORION NOVA, S.L.
D492B9 (base 16) ORION NOVA, S.L.
CALLE LARRAMENDI 12C 6A
TOLOSA PAIS VASCO 20400
ES

00-1B-B5 (hex) Cherry
GmbH
001BB5 (base 16) Cherry GmbH
Cherrystraße 1
Auerbach i. d. Opf. Bayern D-91275
DE

68-AA-C4 (hex) Altice Labs S.A.

68AAC4 (base 16) Altice Labs S.A.
NIF 504705610, Rua Eng. José Ferreira Pinto Basto
Aveiro 3810-106
PT

68-B8-BB (hex) Beijing Xiaomi Electronics Co.,Ltd
68B8BB (base 16) Beijing Xiaomi Electronics Co.,Ltd
Xiaomi Campus
Beijing Beijing 100085
CN

14-AC-60 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
14AC60 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

1C-22-85 (hex) Serrature Meroni SpA
1C2285 (base 16) Serrature Meroni SpA
Via Valsorda
INVERIGO CO 22044
IT

80-FD-7B (hex) BLU Products Inc
80FD7B (base 16) BLU Products Inc
10814 NW 33rd Street
Miami FL 33172
US

58-93-51 (hex) Huawei Device Co., Ltd.
589351
(base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

2C-A7-EF (hex) OnePlus Technology (Shenzhen) Co., Ltd
2CA7EF (base 16) OnePlus Technology (Shenzhen) Co., Ltd
18C02, 18C03, 18C04 ,18C05,TAIRAN BUILDING,
Shenzhen Guangdong 518000
CN

50-FD-D5 (hex) SJI Industry Company
50FDD5 (base 16) SJI Industry Company
54-33, Dongtanhana 1-gil
Hwaseong-si Gyeonggi-do 18423
KR

D0-F4-F7 (hex) Huawei Device Co., Ltd.
D0F4F7 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

D4-E9-8A (hex) Intel Corporate
D4E98A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

EC-96-BF (hex) eSystems MTG GmbH
EC96BF (base 16) eSystems MTG GmbH
Bahnhofstraße 100
Wendlingen 73240
DE

D4-20-00 (hex) IEEE Registration Authority
D42000 (base 16) IEEE
Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

70-4D-E7 (hex) TECNO MOBILE LIMITED
704DE7 (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

74-D8-73 (hex) GUANGDONG GENIUS TECHNOLOGY CO., LTD.
74D873 (base 16) GUANGDONG GENIUS TECHNOLOGY CO., LTD.
No.168, Middle Road Of East Gate
Xiaobian Community Chang'an Town 523851
CN

30-DE-4B (hex) TP-Link Corporation Limited
30DE4B (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

68-26-24 (hex) Ergatta
682624 (base 16) Ergatta
40 W 25th St Fl 9
New York NY 10010

US

A0-21-8B (hex) ACE Antenna Co., ltd
A0218B (base 16) ACE Antenna Co., ltd
Dong Van II Industrial Zone, Bach Thuong Ward, Duy Tien Town
Hanam
400000
VN

20-84-F5 (hex) Yufei Innovation Software(Shenzhen) Co., Ltd.
2084F5 (base 16) Yufei Innovation Software(Shenzhen) Co., Ltd.
115, Building 15, Maker Town, No.4109, Liuxian Avenue, Pingshan Community, Taoyuan Street, Nanshan District, Shenzhen
Shenzhen 518051
CN

14-21-03 (hex) Calix Inc.
142103 (base 16) Calix Inc.
2777 Orchard Pkwy
San Jose CA 95131
US

40-B1-5C (hex) HUAWEI TECHNOLOGIES CO.,LTD
40B15C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

28-80-8A (hex) HUAWEI TECHNOLOGIES CO.,LTD
28808A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

34-66-79 (hex) HUAWEI TECHNOLOGIES CO.,LTD
346679 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

44-8C-AB
(hex) Beijing Flitlink Vientiane Technology Co., LTD
448CAB (base 16) Beijing Flitlink Vientiane Technology Co., LTD
Building 23, No. 18, Anning Zhuang East Road, Qinghe, Haidian District, Beijing
Beijing 100083
CN

C4-D4-96 (hex) Shenzhen Excelsecu Data Technology Co.,Ltd

C4D496 (base 16) Shenzhen Excelsecu Data Technology Co.,Ltd
Unit 701-708,7/F,South Block,SDGI Building A,No.2,Kefeng Road,YueHai Street , Nanshan District,Shenzhen, China.
Shenzhen 518057
CN

6C-97-AA (hex) AI TECHNOLOGY CO.,LTD.
6C97AA (base 16) AI TECHNOLOGY CO.,LTD.
2-4-5,AZABUDAI,MINATO-KU
Tokyo 106-0041
JP

6C-65-67 (hex) BELIMO Automation AG
6C6567 (base 16) BELIMO Automation AG
brunnenbachstrasse 1
Hinwil Zurich 8340
CH

D0-DA-D7 (hex) Apple, Inc.
D0DAD7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C4-AC-AA (hex) Apple, Inc.
C4ACAA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

4C-24-CE (hex) Sichuan AI-Link Technology Co., Ltd.
4C24CE (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou, Industrial Park
Mianyang Sichuan 622650
CN

1C-97-FB (hex) CoolBitX Ltd.
1C97FB (base 16) CoolBitX Ltd.
Suite 102, Cannon Place, P.O. Box 712, N. Sound Rd
George Town Grand Cayman KY1-9006
KY

2C-32-6A (hex) Apple, Inc.
2C326A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

6C-B1-33 (hex) Apple, Inc.
6CB133 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

28-E7-1D (hex) Arista Networks
28E71D (base 16) Arista Networks
5453 Great America Parkway
Santa Clara CA 95054
US

10-E8-40 (hex) ZOWEE TECHNOLOGY(HEYUAN) CO., LTD.
10E840 (base 16) ZOWEE TECHNOLOGY(HEYUAN) CO., LTD.
Runye Precision Manufacturing Industrial Park,among the north of Xiangjing Road, the west of Xinpi Road and the south of Yangzi Road,
locatd in the High-tech Zone, Heyuan City Guangdong Province
Heyuan Guangdong 517000
CN

44-05-E8 (hex) twareLAB
4405E8 (base 16) twareLAB
338 Gwanggyojungang-ro
yongin gyeonggi 16942
KR

78-F1-C6 (hex) Cisco Systems, Inc
78F1C6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

34-1B-2D (hex) Cisco Systems, Inc
341B2D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

84-3C-4C (hex) Robert Bosch SRL
843C4C (base 16) Robert Bosch SRL
Horia Macelariu 30-34
Bucharest 013937
RO

88-28-7D (hex) AltoBeam (China) Inc.
88287D (base 16) AltoBeam (China) Inc.
B808, Tsinghua Tongfang Hi-Tech Plaza, Haidian

Beijing Beijing 100083
CN

44-5A-DF (hex) MIKAMI & CO., LTD.
445ADF (base 16) MIKAMI & CO., LTD.
1-5-23 Eda-Nishi, Aoba-Ku
Yokohama-Shi Kanagawa-Pre 225-0014
JP

08-6E-9C (hex) Huawei Device Co., Ltd.
086E9C
(base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

44-16-FA (hex) Samsung Electronics Co.,Ltd
4416FA (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

FC-67-1F (hex) Tuya Smart Inc.
FC671F (base 16) Tuya Smart Inc.
160 Greentree Drive, Suite 101
Dover DE 19904
US

78-C5-7D (hex) Zyxel Communications Corporation
78C57D (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

8C-35-92 (hex) Guangzhou Shiyuan Electronic Technology Company Limited
8C3592 (base 16) Guangzhou Shiyuan Electronic Technology Company Limited
No.6, 4th Yunpu Road, Yunpu industry District
Guangzhou Guangdong 510530
CN

A0-46-5A (hex) Motorola Mobility LLC, a Lenovo Company
A0465A (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago
IL 60654
US

64-B5-F2 (hex) Samsung Electronics Co.,Ltd

64B5F2 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

8C-06-CB (hex) Toradex AG
8C06CB (base 16) Toradex AG
Ebenaustrasse 10
Horw LU 6048
CH

A4-0E-75 (hex) Aruba, a Hewlett Packard Enterprise Company
A40E75 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

38-A8-9B (hex) Fiberhome Telecommunication Technologies Co.,LTD
38A89B (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

64-37-A4 (hex) TOKYOSHUHA CO.,LTD.
6437A4 (base 16) TOKYOSHUHA CO.,LTD.
1-8-9 KANDAIZUMICHO
CHIYODA-KU TOKYO 101-0024
JP

90-CA-FA (hex) Google, Inc.
90CAFA (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

DC-AA-43 (hex) Shenzhen Terca Information Technology
Co., Ltd.
DCAA43 (base 16) Shenzhen Terca Information Technology Co., Ltd.
Room1401, Block A, Building 12 , Shenzhen Bay Technology and Eco-Park , No. 18 Keji South Road , Nanshan District , Shenzhen
SHENZHEN GUANGDONG 518000
CN

44-71-47 (hex) Beijing Xiaomi Electronics Co.,Ltd
447147 (base 16) Beijing Xiaomi Electronics Co.,Ltd
Xiaomi Campus
Beijing Beijing 100085
CN

F4-BB-C7 (hex) vivo Mobile Communication Co., Ltd.
F4BBC7 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

00-FB-F9 (hex) Axiado Corporation
00FBF9 (base 16) Axiado Corporation
2610 Orchard Parkway, Suite 300
San Jose CA 95134
US

98-66-10 (hex) zte corporation
986610 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

A8-DC-5A (hex) Digital Watchdog
A8DC5A (base 16) Digital Watchdog
16220
Bloomfield Ave
Cerritos CA 90703
US

1C-24-CD (hex) ASKEY COMPUTER CORP
1C24CD (base 16) ASKEY COMPUTER CORP
10F, No.119, JIANKANG RD.,ZHINGHE DIST,
NEW TAIPEI CITY 23585
TW

6C-72-E2 (hex) amitek
6C72E2 (base 16) amitek
#311, KETI, 226, Chemdangwari-ro, Buk-gu, Gwangju, 61011, Rep. of KOREA
Gwangju 61011
KR

04-D9-C8 (hex) Hon Hai Precision Industry Co., Ltd.
04D9C8 (base 16) Hon Hai Precision Industry Co., Ltd.
GuangDongShenZhen
ShenZhen GuangDong 518109
CN

90-65-60 (hex) EM Microelectronic
906560 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074

CH

A0-FB-83 (hex) Honor Device Co., Ltd.
A0FB83 (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District
Shenzhen Guangdong 518040
CN

DC-0B-09 (hex) Cisco Systems, Inc
DC0B09 (base 16) Cisco
Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

08-F3-FB (hex) Cisco Systems, Inc
08F3FB (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A0-36-BC (hex) ASUSTek COMPUTER INC.
A036BC (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

84-0B-BB (hex) MitraStar Technology Corp.
840BBB (base 16) MitraStar Technology Corp.
No. 6, Innovation Road II,
Hsinchu 300
TW

E0-08-71 (hex) Dongguan Liesheng Electronic Co., Ltd.
E00871 (base 16) Dongguan Liesheng Electronic Co., Ltd.
F5, Building B, North Block, Gaosheng Tech Park, No. 84 Zhongli Road, Nancheng District, Dongguan Ci
dongguan guangdong 523000
CN

9C-95-6E (hex) Microchip Technology Inc.
9C956E (base 16) Microchip Technology Inc.
2355 W. Chandler Blvd.
Chandler AZ 85224
US

10-73-EB (hex) Infiniti Electro-Optics
1073EB (base 16) Infiniti

Electro-Optics
15 - 9th Ave S
Cranbrook British Columbia V1C 2L9
CA

2C-A7-74 (hex) Texas Instruments
2CA774 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

18-7A-3E (hex) Silicon Laboratories
187A3E (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

30-05-05 (hex) Intel Corporate
300505 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B0-DC-EF (hex) Intel Corporate
B0DCEF (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

74-13-EA (hex) Intel Corporate
7413EA (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

78-C2-13 (hex) Sagemcom Broadband SAS
78C213 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

40-22-D8 (hex) Espressif Inc.
4022D8 (base 16) Espressif
Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

18-4E-03 (hex) HMD Global Oy
184E03 (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

70-B3-06 (hex) Apple, Inc.
70B306 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B8-49-6D (hex) Apple, Inc.
B8496D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

9C-92-4F (hex) Apple, Inc.
9C924F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

20-0E-2B (hex) Apple, Inc.
200E2B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-D7-93 (hex) Apple, Inc.
F0D793 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

DC-F3-1C (hex) Texas Instruments
DCF31C (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

54-45-38 (hex) Texas Instruments
544538 (base 16) Texas Instruments
12500
TI Blvd
Dallas TX 75243
US

30-3D-51 (hex) IEEE Registration Authority
303D51 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

38-F0-C8 (hex) Logitech
38F0C8 (base 16) Logitech
7700 Gateway Blvd
Newark CA 94560
US

34-FE-1C (hex) CHOUNG HWA TECH CO.,LTD
34FE1C (base 16) CHOUNG HWA TECH CO.,LTD
#31 Jangja-ro, Namdong-gu
Incheon-si 21532
KR

60-CF-69 (hex) meerecompany
60CF69 (base 16) meerecompany
69-12, Jeongmunsongsan-ro, Yanggam-myeon, Hwaseong-si, Gyeonggi-do, Republic of Korea
Hwaseong-si 18630
KR

4C-62-7B (hex) SmartCow AI Technologies Taiwan Ltd.
4C627B (base 16) SmartCow AI Technologies Taiwan Ltd.
16F., No. 102, Songlong Rd., Xinyi Dist.,
Taipei City 110059
TW

28-BC-05 (hex) BLU Products Inc
28BC05 (base 16) BLU Products Inc
10814 NW 33rd Street
Miami FL 33172
US

1C-EF-03 (hex) Guangzhou
V-SOLUTION Electronic Technology Co., Ltd.
1CEF03 (base 16) Guangzhou V-SOLUTION Electronic Technology Co., Ltd.
Room 601,Originality Building B2, NO.162 Science Avenue,Science Town
Guangzhou Guangdong 510663
CN

58-B0-3E (hex) Nintendo Co.,Ltd
58B03E (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501

JP

AC-4E-65 (hex) Fiberhome Telecommunication Technologies Co.,LTD
AC4E65 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

A8-80-38 (hex) ShenZhen MovingComm Technology Co., Limited
A88038 (base 16) ShenZhen MovingComm Technology Co., Limited
5F, FuXinFa Industrial Park, LiuXianDong Industrial Zone,
ShenZhen GuangDong 518055
CN

BC-5D-A3 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
BC5DA3 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu
Sichuan 611330
CN

BC-7B-72 (hex) Huawei Device Co., Ltd.
BC7B72 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

F8-2B-7F (hex) Huawei Device Co., Ltd.
F82B7F (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

40-C3-BC (hex) Huawei Device Co., Ltd.
40C3BC (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

28-53-E0 (hex) Sintela Ltd
2853E0 (base 16) Sintela Ltd
The Distillery, The Old Brewery, 9-11 Lodway,
Pill Bristol BS20 0DH
GB

D8-68-A0 (hex) Samsung Electronics Co.,Ltd
D868A0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong

Gumi Gyeongbuk 730-350
KR

04-29-2E (hex) Samsung Electronics Co.,Ltd
04292E (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk
730-350
KR

68-7F-F0 (hex) TP-Link Corporation Limited
687FF0 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

34-5D-A8 (hex) Cisco Systems, Inc
345DA8 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E0-80-6B (hex) Xiaomi Communications Co Ltd
E0806B (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

70-50-E7 (hex) IEEE Registration Authority
7050E7 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

70-AC-08 (hex) Silicon Laboratories
70AC08 (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

38-FD-F5 (hex) Renesas Electronics (Penang) Sdn. Bhd.
38FDF5 (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan
Lepas Penang 11900
MY

3C-26-E4 (hex) Cisco Systems, Inc

3C26E4 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

38-91-B7 (hex) Cisco Systems, Inc
3891B7 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

DC-36-0C (hex) Hitron Technologies. Inc
DC360C (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

38-12-7B (hex) Crenet Labs Co., Ltd.
38127B (base 16) Crenet Labs Co., Ltd.
Rm. 1, 10F., No. 181, Sec. 1, Datong Rd.
New Taipei City Xizhi Dist. 221451
TW

B0-E4-5C (hex) Samsung Electronics Co.,Ltd
B0E45C (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

88-F2-BD (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
88F2BD (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global
Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

6C-08-31 (hex) ANALOG SYSTEMS
6C0831 (base 16) ANALOG SYSTEMS
UNIT 12, 38 DLF INDUSTRIAL AREA KIRTI NAGAR NEW DELHI
NEW DELHI DELHI 110015
IN

A4-7E-FA (hex) Withings
A47EFA (base 16) Withings
2 rue Maurice Hartmann
Issy-les-Moulineaux 92130
FR

78-91-DE (hex) Guangdong ACIGA Science&Technology Co.,Ltd
7891DE (base 16) Guangdong ACIGA Science&Technology Co.,Ltd
L203 Biguiyuan International Club, Beijiao Town, Shunde District
Fo Shan Guangdong 528312
CN

BC-4C-A0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
BC4CA0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

74-34-2B (hex) HUAWEI TECHNOLOGIES CO.,LTD
74342B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-12-EC (hex) HUAWEI
TECHNOLOGIES CO.,LTD
C412EC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

AC-A3-2F (hex) Solidigm Technology
ACA32F (base 16) Solidigm Technology
1921 Corporate Center Circle, Suite 3B
Longmont 80501
US

4C-9E-6C (hex) BROADEX TECHNOLOGIES CO.LTD
4C9E6C (base 16) BROADEX TECHNOLOGIES CO.LTD
NO.306 YATAI ROAD
JIAXING ZHEJIANG 314006
CN

8C-98-06 (hex) SHENZHEN SEI ROBOTICS CO.,LTD
8C9806 (base 16) SHENZHEN SEI ROBOTICS CO.,LTD
the 4th floor,Productivity Building D,#5 Hi-Tech Middle 2nd Road,Shenzhen Hi-Tech Industrial Park, Nanshan District,Shenzhen,China
Shenzhen 518000
CN

20-08-89 (hex) zte corporation
200889 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057

CN

20-0B-CF (hex) Nintendo Co.,Ltd
200BCF (base 16) Nintendo Co.,Ltd
11-1
HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

70-70-FC (hex) GOLD&WATER INDUSTRIAL LIMITED
7070FC (base 16) GOLD&WATER INDUSTRIAL LIMITED
NO.77 Leighton Road, 17/F Leighton Centre Causeway Bay ,HongKong
HongKong 999077
HK

98-D9-3D (hex) Demant Enterprise A/S
98D93D (base 16) Demant Enterprise A/S
Kongebakken 9
Smorum 2765
DK

B4-A6-78 (hex) Zhejiang Tmall Technology Co., Ltd.
B4A678 (base 16) Zhejiang Tmall Technology Co., Ltd.
No.969 Wenyi West Road, Wuchang Street, Yuhang District
Hangzhou Zhejiang 310024
CN

AC-C4-BD (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
ACC4BD (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

E4-B6-33 (hex) Wuxi Stars Microsystem Technology Co., Ltd
E4B633 (base 16) Wuxi Stars Microsystem Technology Co., Ltd
Room 2101, Tower C, Swan Tower, Wuxi Software Park,
111 Linghu Avenue, Xinwu District
Wuxi 214135
CN

08-51-04 (hex) Huawei Device Co., Ltd.
085104 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

78-5B-64 (hex) Huawei Device Co., Ltd.
785B64 (base 16) Huawei Device Co., Ltd.

No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

54-E1-5B (hex) Huawei Device Co., Ltd.
54E15B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

24-26-D6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
2426D6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

EC-81-9C (hex) HUAWEI TECHNOLOGIES CO.,LTD
EC819C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-A1-0E (hex) IEEE Registration Authority
C4A10E
(base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

54-2F-04 (hex) Shanghai Longcheer Technology Co., Ltd.
542F04 (base 16) Shanghai Longcheer Technology Co., Ltd.
Bldg 1,No.401,Caobao RD,Xuhui Dist
Shanghai 200233
CN

1C-A4-10 (hex) Amlogic, Inc.
1CA410 (base 16) Amlogic, Inc.
2518 Mission College Blvd, Suite 120
Santa Clara CA 95054
US

98-C8-1C (hex) BAYTEC LIMITED
98C81C (base 16) BAYTEC LIMITED
107C, 31/f, The gateway, Tower 5, Harbour City, 15 canton road, Tsim Sha Tsui, Hong Kong
Harbour 999077
HK

74-84-69 (hex) Nintendo Co.,Ltd

748469 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

8C-CB-DF (hex) FOXCONN INTERCONNECT TECHNOLOGY
8CCBDF (base 16) FOXCONN INTERCONNECT TECHNOLOGY
66-1 Zhongshan Road, Tucheng District
New Taipei City Taiwan 23680
TW

20-0B-16 (hex) Texas
Instruments
200B16 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

88-01-F9 (hex) Texas Instruments
8801F9 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

F8-55-48 (hex) Texas Instruments
F85548 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

68-E7-4A (hex) Texas Instruments
68E74A (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

70-A6-BD (hex) Honor Device Co., Ltd.
70A6BD (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District
Shenzhen Guangdong 518040
CN

84-69-93 (hex) HP Inc.
846993 (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

74-6F-88 (hex) zte corporation
746F88 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

74-71-8B
(hex) Apple, Inc.
74718B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

70-31-7F (hex) Apple, Inc.
70317F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A4-CF-99 (hex) Apple, Inc.
A4CF99 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

4C-2E-B4 (hex) Apple, Inc.
4C2EB4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D0-98-9C (hex) ConMet
D0989C (base 16) ConMet
5701 SE Columbia Way
Vancouver WA 98661
US

34-AD-61 (hex) CELESTICA INC.
34AD61 (base 16) CELESTICA INC.
1900-5140 Yonge Street PO Box 42
Toronto Ontario M2N 6L7
CA

2C-55-3C (hex) Vecima Networks Inc.
2C553C (base 16) Vecima Networks Inc.
150 Cardinal Place
Saskatoon SK S7L 6H7

CA

54-43-B2 (hex) Espressif Inc.
5443B2 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai
Shanghai 201203
CN

B4-19-74 (hex) Apple, Inc.
B41974 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

60-95-BD (hex) Apple, Inc.
6095BD (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

EC-11-27 (hex) Texas Instruments
EC1127 (base 16) Texas Instruments
12500 TI BLVD
Dallas 75243
US

04-E8-92 (hex) SHENNAN CIRCUITS CO.,LTD
04E892 (base 16) SHENNAN CIRCUITS CO.,LTD
Gao Qiao Industrial Park East,Long Gang District,
Shenzhen Guangdong 518117
CN

BC-E9-E2 (hex) Brocade Communications Systems LLC
BCE9E2 (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

18-A5-9C (hex) IEEE Registration Authority
18A59C (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

10-96-1A (hex) CHIPSEA TECHNOLOGIES (SHENZHEN) CORP.
10961A (base 16) CHIPSEA TECHNOLOGIES (SHENZHEN) CORP.
9F,BLOCK

A,GARDEN CITY DIGITAL BUILDING,NO.1079 NANHAI ROAD,NANSHAN DISTRICT
SHEN ZHEN GUANG DONG 518000
CN

AC-BF-71 (hex) Bose Corporation
ACBF71 (base 16) Bose Corporation
The Mountain
Framingham MA 01701-9168
US

AC-D3-1D (hex) Cisco Meraki
ACD31D (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco 94158
US

74-56-3C (hex) GIGA-BYTE TECHNOLOGY CO.,LTD.
74563C (base 16) GIGA-BYTE TECHNOLOGY CO.,LTD.
Pin-Jen City, Taoyuan, Taiwan, R.O.C.
Pin-Jen Taoyuan 324
TW

EC-55-1C (hex) HUAWEI TECHNOLOGIES CO.,LTD
EC551C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B4-83-51 (hex) Intel Corporate
B48351 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

BC-F4-D4 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
BCF4D4 (base 16) CLOUD NETWORK TECHNOLOGY
SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

CC-F3-05 (hex) SHENZHEN TIAN XING CHUANG ZHAN ELECTRONIC CO.,LTD
CCF305 (base 16) SHENZHEN TIAN XING CHUANG ZHAN ELECTRONIC CO.,LTD
Second floor, Building A, FengHangAvenue, Hangcheng Street, Bao'an District
Shenzhen Guangdong 518126
CN

04-B9-7D (hex) AiVIS Co., ltd.

04B97D (base 16) AiVIS Co., ltd.
112, Dumipo-ro, Jung-gu
Incheon Incheon 22394
KR

C4-C0-63 (hex) New H3C Technologies Co., Ltd
C4C063 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

E0-79-8D (hex) Silicon Laboratories
E0798D (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

34-BD-20 (hex) Hangzhou Hikrobot Technology Co., Ltd.
34BD20 (base 16) Hangzhou Hikrobot Technology Co., Ltd.
Room
304, Unit B, Building 2, 399 Danfeng Road, Binjiang District, Hangzhou, Zhejiang
Hangzhou 310052
CN

64-C2-69 (hex) eero inc.
64C269 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

AC-2A-A1 (hex) Cisco Systems, Inc
AC2AA1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F8-E9-4F (hex) Cisco Systems, Inc
F8E94F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

30-89-4A (hex) Intel Corporate
30894A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D8-9C-8E (hex) Comcast Cable Corporation
D89C8E (base 16) Comcast Cable Corporation
1800 Arch Street
Philadelphia PA 19103
US

00-25-CA (hex) Laird Connectivity
0025CA (base 16) Laird Connectivity
W66 N220 Commerce Court
Cedarburg WI 53012
US

E0-6C-C5 (hex) Huawei Device Co., Ltd.
E06CC5 (base 16) Huawei Device
Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

30-96-3B (hex) Huawei Device Co., Ltd.
30963B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

8C-6B-DB (hex) Huawei Device Co., Ltd.
8C6BDB (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

10-DA-49 (hex) Huawei Device Co., Ltd.
10DA49 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

60-18-3A (hex) Huawei Device Co., Ltd.
60183A (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

18-C0-07 (hex) Huawei Device Co., Ltd.
18C007 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

98-59-7A (hex) Intel Corporate
98597A
(base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

64-49-7D (hex) Intel Corporate
64497D (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B8-D6-1A (hex) Espressif Inc.
B8D61A (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

BC-6E-6D (hex) EM Microelectronic
BC6E6D (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

00-D4-9E (hex) Intel Corporate
00D49E (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

34-92-C2 (hex) Square Route Co., Ltd.
3492C2 (base 16) Square Route Co., Ltd.
Area-Shinagawa 13F, 1-9-36, Konan, Minato-ku
Tokyo Tokyo 108-0075
JP

8C-17-59 (hex) Intel Corporate
8C1759 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B8-3F-D2 (hex) Mellanox
Technologies, Inc.
B83FD2 (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100

Sunnyvale CA 94085
US

30-CB-36 (hex) Belden Singapore Pte. Ltd.
30CB36 (base 16) Belden Singapore Pte. Ltd.
151 Lorong Chuan #05-01 New Tech Park Singapore
Singapore 556741
SG

30-BB-7D (hex) OnePlus Technology (Shenzhen) Co., Ltd
30BB7D (base 16) OnePlus Technology (Shenzhen) Co., Ltd
18C02, 18C03, 18C04 ,18C05,TAIRAN BUILDING,
Shenzhen Guangdong 518000
CN

6C-67-EF (hex) HUAWEI TECHNOLOGIES CO.,LTD
6C67EF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

88-69-3D (hex) HUAWEI TECHNOLOGIES CO.,LTD
88693D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-99-1D (hex) HUAWEI TECHNOLOGIES CO.,LTD
00991D (base 16) HUAWEI TECHNOLOGIES
CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

28-3E-0C (hex) Preferred Robotics, Inc.
283E0C (base 16) Preferred Robotics, Inc.
Otemachi Bldg. 1-6-1 Otemachi
Chiyoda-ku Tokyo 100-0004
JP

04-BC-9F (hex) Calix Inc.
04BC9F (base 16) Calix Inc.
2777 Orchard Pkwy
San Jose CA 95131
US

6C-A4-01 (hex) essensys plc
6CA401 (base 16) essensys plc

Aldgate Tower, Leman Street
London E1 8FA
GB

B0-4A-6A (hex) Samsung Electronics Co.,Ltd
B04A6A (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A8-79-8D (hex) Samsung Electronics Co.,Ltd
A8798D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

5C-ED-F4 (hex) Samsung Electronics Co.,Ltd
5CEDF4 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

28-3D-C2 (hex) Samsung
Electronics Co.,Ltd
283DC2 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B4-28-75 (hex) Futecho Solutions Private Limited
B42875 (base 16) Futecho Solutions Private Limited
504, Commercial Complex, Savitri Cinema Compound, GK2
New Delhi 110048
IN

30-23-64 (hex) Nokia Shanghai Bell Co., Ltd.
302364 (base 16) Nokia Shanghai Bell Co., Ltd.
No.388 Ning Qiao Road,Jin Qiao Pudong Shanghai
Shanghai 201206
CN

0C-1C-1A (hex) eero inc.
0C1C1A (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

48-51-D0 (hex) Jiangsu Xinsheng Intelligent Technology Co., Ltd.

4851D0 (base 16) Jiangsu Xinsheng Intelligent Technology Co., Ltd.
18th Floor,Inno laser Building,18-69 Changwu Mid Road,Changzhou Science & Education Town,Wujin District,Changzhou,Jiangsu213000,China
Changzhou Jiangsu 213000
CN

DC-9A-7D (hex) HISENSE VISUAL TECHNOLOGY CO.,LTD
DC9A7D
(base 16) HISENSE VISUAL TECHNOLOGY CO.,LTD
Qianwangang Road 218
Qingdao Shandong 266510
CN

84-F1-D0 (hex) EHOOME IOT PRIVATE LIMITED
84F1D0 (base 16) EHOOME IOT PRIVATE LIMITED
A-13, SECTOR-83,
NOIDA UTTAR PRADESH 201301
IN

20-8B-D1 (hex) NXP Semiconductor (Tianjin) LTD.
208BD1 (base 16) NXP Semiconductor (Tianjin) LTD.
No.15 Xinghua Avenue, Xiqing Economic Development Area
Tianjin 300385
CN

2C-07-F6 (hex) SKG Health Technologies Co., Ltd.
2C07F6 (base 16) SKG Health Technologies Co., Ltd.
23A Floor,Building 3,Zhongke R&D Park,No.009,Gaoxin South 1st Road, High-tech Zone Community,Yuehai street, Nanshan District,Shenzhen City,Guangdong Province,P.R.China
Shenzhen 518000
CN

38-68-BE (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
3868BE (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan
611330
CN

28-A5-3F (hex) vivo Mobile Communication Co., Ltd.
28A53F (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

8C-49-B6 (hex) vivo Mobile Communication Co., Ltd.
8C49B6 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an

Dongguan Guangdong 523860
CN

80-77-A4 (hex) TECNO MOBILE LIMITED
8077A4 (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

7C-6C-F0 (hex) Shenzhen TINNO Mobile Technology Corp.
7C6CF0 (base 16) Shenzhen TINNO Mobile Technology Corp.
4/F, H-3 Building, Qiao Cheng Eastern Industrial Park, Overseas Chinese Town, Shenzhen
Shenzhen guangdong 518053
CN

00-C3-0A (hex) Xiaomi Communications Co Ltd
00C30A (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building
6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

88-52-EB (hex) Xiaomi Communications Co Ltd
8852EB (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

08-57-FB (hex) Amazon Technologies Inc.
0857FB (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

00-D0-FC (hex) GRANITE MICROSYSTEMS
00D0FC (base 16) GRANITE MICROSYSTEMS
10202 N. ENTERPRISE DRIVE
MEQUON WI 53092
US

B0-DE-28 (hex) Apple, Inc.
B0DE28 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

7C-13-1D (hex) SERNET (SUZHOU) TECHNOLOGIES CORPORATION

7C131D (base 16) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
NO.8 Tangzhuang Road,Suzhou Industrial Park,Su ZhouCity,JiangSu Province,China
Suzhou 215021
CN

D4-9F-DD (hex) Huawei Device Co., Ltd.
D49FDD (base 16) Huawei Device Co., Ltd.
No.2
of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

00-D8-A2 (hex) Huawei Device Co., Ltd.
00D8A2 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

DC-6B-1B (hex) Huawei Device Co., Ltd.
DC6B1B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

D0-6D-C9 (hex) Sagemcom Broadband SAS
D06DC9 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

DC-15-2D (hex) China Mobile Group Device Co.,Ltd.
DC152D (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

98-CA-20 (hex) Shanghai SIMCOM Ltd.
98CA20 (base 16) Shanghai SIMCOM Ltd.
Building A, SIM Technology Building, No.633, Jinzhong Road, Changning District
Shanghai 200335
CN

D8-50-A1 (hex) Hunan
Danuo Technology Co.,LTD
D850A1 (base 16) Hunan Danuo Technology Co.,LTD
No. 89, Guoqing South Road, Beihu District, Chenzhou City, Hunan Province (in Xiangnan International Logistics Park)
Hunan 423000

CN

44-1A-AC (hex) Elektrik Uretim AS EOS
441AAC (base 16) Elektrik Uretim AS EOS
Mustafa Kemal Mahallesi No:166 Çankaya
Ankara 06520
TR

34-28-40 (hex) Apple, Inc.
342840 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

18-E7-B0 (hex) Apple, Inc.
18E7B0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

50-57-8A (hex) Apple, Inc.
50578A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-33-B7 (hex) Sagemcom Broadband SAS
D833B7 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

D4-FB-8E (hex) Apple, Inc.
D4FB8E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

2C-78-4C (hex) Iton Technology Corp.
2C784C (base 16) Iton Technology Corp.
Room 1302, Block A, Building 4, Tianan Cyber Park, Huangge Road,Longgang District
Shenzhen Guangdong 518116
CN

48-87-59 (hex) Xiaomi Communications Co Ltd
488759 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road

Beijing Haidian District 100085
CN

AC-1E-9E (hex) Xiaomi Communications Co Ltd
AC1E9E (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

D0-1B-1F (hex) OHSUNG
D01B1F (base 16) OHSUNG
335-4,SANHODAERO,GUMI,GYEONG BUK,KOREA
GUMI GYEONG BUK 730-030
KR

E0-AE-A2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E0AEA2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

44-45-6F (hex) SHENZHEN ONEGA
TECHNOLOGY CO.,LTD
44456F (base 16) SHENZHEN ONEGA TECHNOLOGY CO.,LTD
2 / F, building 3, zone B, Xusheng Xifa, Bao'an District, Shenzhen
Shenzhen Guangdong 518126
CN

E8-FD-F8 (hex) Shanghai High-Flying Electronics Technology Co., Ltd
E8FDF8 (base 16) Shanghai High-Flying Electronics Technology Co., Ltd
Room 1002,#1Building,No.3000 Longdong Avenue,Pudong
Shanghai Shanghai 201202
CN

C0-18-03 (hex) HP Inc.
C01803 (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

04-CF-4B (hex) Intel Corporate
04CF4B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

FC-38-C4 (hex) China Grand Communications Co.,Ltd.
FC38C4 (base 16) China Grand Communications Co.,Ltd.

2712, Block A, Phase II, Qianhai Economic and Trade Center, China Merchants Group, No. 3041, Yihai Avenue, Nanshan street, Shenzhen Hong Kong cooperation zone, Shenzhen
Shenzhen Guangdong 518066
CN

5C-F5-1A
(hex) Zhejiang Dahua Technology Co., Ltd.
5CF51A (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

10-1D-51 (hex) 8Mesh Networks Limited
101D51 (base 16) 8Mesh Networks Limited
Unit 607, 6/F, Yen Sheng Centre,
64 Hoi Yuen Road Kwun Tong 000
HK

34-97-6F (hex) Rootech, Inc.
34976F (base 16) Rootech, Inc.
102-611 Digital Empire2, 88, Sin won-ro
Yeongtong-gu, Suwon Gyeonggi-do 16681
KR

6C-6C-0F (hex) HUAWEI TECHNOLOGIES CO.,LTD
6C6C0F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

CC-8C-BF (hex) Tuya Smart Inc.
CC8CBF (base 16) Tuya Smart Inc.
160 Greentree Drive, Suite 101
Dover DE 19904
US

F8-97-A9 (hex) Ericsson AB
F897A9 (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

AC-93-C4 (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
AC93C4 (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

00-06-88 (hex) Telways Communication Co., Ltd.
000688 (base 16) Telways Communication Co., Ltd.
3F, No. 53, Lane 258
Taipei 114
TW

EC-9B-2D (hex) China Mobile Group Device Co.,Ltd.
EC9B2D (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

A8-13-06 (hex) vivo Mobile Communication Co., Ltd.
A81306 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

1C-34-F1 (hex) Silicon Laboratories
1C34F1 (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

CC-7D-5B (hex) Telink Semiconductor (Shanghai) Co., Ltd.
CC7D5B (base 16) Telink Semiconductor (Shanghai) Co., Ltd.
No. 1500 Zuchongzhi Rd, Building
#3
Shanghai 201203
CN

74-95-52 (hex) Xuzhou WIKA Electronics Control Technology Co., Ltd.
749552 (base 16) Xuzhou WIKA Electronics Control Technology Co., Ltd.
No.11 BaoLianSi Road Xuzhou Economic Development Zone
Xuzhou JiangSu,PRC 221001
CN

44-EA-30 (hex) Samsung Electronics Co.,Ltd
44EA30 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

84-5F-04 (hex) Samsung Electronics Co.,Ltd
845F04 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350

KR

9C-2F-9D (hex) Liteon Technology Corporation
9C2F9D (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

A4-F3-3B (hex) zte corporation
A4F33B (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

30-E7-BC (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
30E7BC
(base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

4C-FE-2E (hex) DongGuan Siyoto Electronics Co., Ltd
4CFE2E (base 16) DongGuan Siyoto Electronics Co., Ltd
Hecheng Industrial District, QiaoTou Town
DongGuan City Guangdong 523520
CN

0C-4E-C0 (hex) Maxlinear Inc
0C4EC0 (base 16) Maxlinear Inc
1060 Rincon Circle
San Jose CA 95131
US

90-11-95 (hex) Amazon Technologies Inc.
901195 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

7C-B5-66 (hex) Intel Corporate
7CB566 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

40-32-9D (hex) Union Image Co.,Ltd
40329D (base 16) Union Image Co.,Ltd
Building A2, Ding Bao Hong Green High Garden, Shiyan Street, Bao 'an District

SHENZHEN GuangDong 518108
CN

50-A0-30 (hex) IEEE Registration Authority
50A030
(base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

6C-4B-B4 (hex) HUMAX Co., Ltd.
6C4BB4 (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

58-9B-F7 (hex) Hefei Radio Communication Technology Co., Ltd
589BF7 (base 16) Hefei Radio Communication Technology Co., Ltd
No.108, YinXing Road, High-tech Development Zone
Hefei Anhui 230088
CN

00-0E-24 (hex) Huwell Technology Inc.
000E24 (base 16) Huwell Technology Inc.
1F 82-21, Majin Building
Seoul 135-010
KR

4C-77-13 (hex) Renesas Electronics (Penang) Sdn. Bhd.
4C7713 (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

D8-AA-59 (hex) Tonly Technology Co. Ltd
D8AA59 (base 16) Tonly Technology Co. Ltd
Section 37, Zhongkai Hi-Tech Development Zone
Huizhou Guangdong 516006
CN

64-CF-13
(hex) Weigao Nikkiso(Weihai)Dialysis Equipment Co.,Ltd
64CF13 (base 16) Weigao Nikkiso(Weihai)Dialysis Equipment Co.,Ltd
No.20,Xingshan Road,Wego Industrial Zone,Chucun,Weihai,Shandong,China
Weihai Shandong 264209
CN

50-E9-DF (hex) Quectel Wireless Solutions Co.,Ltd.

50E9DF (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

E8-FA-23 (hex) Huawei Device Co., Ltd.
E8FA23 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

EC-3A-52 (hex) Huawei Device Co., Ltd.
EC3A52 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

44-1B-88 (hex) Apple, Inc.
441B88 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

80-04-5F (hex) Apple, Inc.
80045F (base 16) Apple, Inc.
1 Infinite
Loop
Cupertino CA 95014
US

9C-3E-53 (hex) Apple, Inc.
9C3E53 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C8-89-F3 (hex) Apple, Inc.
C889F3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

10-B9-C4 (hex) Apple, Inc.
10B9C4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

60-10-9E (hex) HUAWEI TECHNOLOGIES CO.,LTD
60109E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

48-02-86 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
480286 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

94-DE-B8 (hex) Silicon Laboratories
94DEB8 (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

04-0D-84 (hex) Silicon
Laboratories
040D84 (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

4C-19-5D (hex) Sagemcom Broadband SAS
4C195D (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

9C-74-03 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
9C7403 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

3C-EC-DE (hex) FUJIAN STAR-NET COMMUNICATION CO.,LTD
3CECDE (base 16) FUJIAN STAR-NET COMMUNICATION CO.,LTD
19-22# Building, Star-net Science Plaza, Juyuanzhou,
FUZHOU FUJIAN 350002
CN

9C-6B-00 (hex) ASRock Incorporation
9C6B00 (base 16) ASRock Incorporation
2F.,No.37, Sec.2, Jhongyang S.Rd., Beitou Distric,
Taipei 112
TW

54-F8-2A (hex) u-blox AG
54F82A (base 16) u-blox AG
Zuercherstrasse 68
Thalwil 8800
CH

D4-35-38 (hex) Beijing
Xiaomi Mobile Software Co., Ltd
D43538 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

10-CE-02 (hex) Amazon Technologies Inc.
10CE02 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

98-67-2E (hex) Skullcandy
98672E (base 16) Skullcandy
6301 N. LANDMARK DRIVE
Park City 84098
US

A8-3A-48 (hex) Ubiqcom India Pvt Ltd
A83A48 (base 16) Ubiqcom India Pvt Ltd
First Floor, D-92, Sector-63
Noida Uttar Pradesh 201301
IN

C8-5A-CF (hex) HP Inc.
C85ACF (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

FC-29-E3 (hex) Infinix mobility limited
FC29E3 (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

9C-1C-6D (hex) HEFEI DATANG STORAGE
TECHNOLOGY CO.,LTD
9C1C6D (base 16) HEFEI DATANG STORAGE TECHNOLOGY CO.,LTD

7F BLOCK C J2 BUILDING INNOVATION PARK HIGH TECH DISTRICT
HEFEI AN HUI PROVINCE PR CHINA 220038
CN

64-1A-BA (hex) Dryad Networks GmbH
641ABA (base 16) Dryad Networks GmbH
Eisenbahnstr. 37
Eberswalde Brandenburg 16225
DE

34-94-54 (hex) Espressif Inc.
349454 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

00-13-DC (hex) IBTEK INC.
0013DC (base 16) IBTEK INC.
16F, 30, Pei-Ping East Rd.,
Taipei 100
TW

D8-4A-2B (hex) zte corporation
D84A2B (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

D0-F9-9B (hex) zte corporation
D0F99B (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

F4-13-99 (hex) Aerospace
new generation communications Co.,Ltd
F41399 (base 16) Aerospace new generation communications Co.,Ltd
Building 3, No. 36 Xiyong Avenue
CHONG QING 401332
CN

A4-43-8C (hex) ARRIS Group, Inc.
A4438C (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

94-A9-A8 (hex) Texas Instruments

94A9A8 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

48-B4-23 (hex) Amazon Technologies Inc.
48B423 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

70-70-AA (hex) Amazon Technologies Inc.
7070AA (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

64-2F-C7 (hex) New H3C Technologies Co., Ltd
642FC7 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

60-26-AA (hex) Cisco Systems, Inc
6026AA (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose
CA 94568
US

5C-31-92 (hex) Cisco Systems, Inc
5C3192 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

88-C2-27 (hex) HUAWEI TECHNOLOGIES CO.,LTD
88C227 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

80-54-D9 (hex) HUAWEI TECHNOLOGIES CO.,LTD
8054D9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

9C-85-66 (hex) Wingtech Mobile Communications Co.,Ltd.
9C8566 (base 16) Wingtech Mobile Communications Co.,Ltd.
1F-3F,Yinfeng Mansion,No.5097 of Luosha Road,Luohu District
Shenzhen 518011
CN

B0-33-66 (hex) vivo Mobile Communication Co., Ltd.
B03366 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

7C-C2-25 (hex) Samsung Electronics Co.,Ltd
7CC225 (base 16) Samsung
Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D4-13-F8 (hex) Peplink International Ltd.
D413F8 (base 16) Peplink International Ltd.
A5, 5/F, HK Spinners Industrial Building, Phase 6, 481 Castle Peak Road
Cheung Sha Wan Kowloon 0
HK

00-11-17 (hex) CESNET
001117 (base 16) CESNET
Zikova 4
Praha 6 160 00
CZ

9C-EC-61 (hex) Huawei Device Co., Ltd.
9CEC61 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

74-70-69 (hex) Huawei Device Co., Ltd.
747069 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

14-FB-70 (hex) Huawei Device Co., Ltd.
14FB70 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

84-D3-D5 (hex) Huawei Device Co., Ltd.
84D3D5 (base 16) Huawei Device Co.,
Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

9C-00-D3 (hex) SHENZHEN IK WORLD Technology Co., Ltd
9C00D3 (base 16) SHENZHEN IK WORLD Technology Co., Ltd
Aike intelligent industrial park, 167 gongchang Road, Xinhu street, Guangming New District,
SHENZHEN GUANGDONG 518000
CN

28-2D-06 (hex) AMPAK Technology,Inc.
282D06 (base 16) AMPAK Technology,Inc.
3F, No.15-1 Zhonghua Road, Hsinchu Industrail Park, Hukou,
Hsinchu Hsinchu,Taiwan R.O.C. 30352
TW

20-2B-20 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
202B20 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

A0-A3-09 (hex) Apple, Inc.
A0A309 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

5C-50-D9 (hex) Apple, Inc.
5C50D9 (base 16) Apple, Inc.
1 Infinite
Loop
Cupertino CA 95014
US

E8-CA-C8 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
E8CAC8 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

D4-19-F6 (hex) NXP Semiconductor (Tianjin) LTD.
D419F6 (base 16) NXP Semiconductor (Tianjin) LTD.
No.15 Xinghua Avenue, Xiqing Economic Development Area

Tianjin 300385
CN

64-BF-6B (hex) HUAWEI TECHNOLOGIES CO.,LTD
64BF6B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

30-49-9E (hex) HUAWEI TECHNOLOGIES CO.,LTD
30499E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

88-4D-7C (hex) Apple, Inc.
884D7C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A8-FE-9D (hex) Apple, Inc.
A8FE9D (base 16) Apple,
Inc.
1 Infinite Loop
Cupertino CA 95014
US

DC-97-3A (hex) Verana Networks
DC973A (base 16) Verana Networks
100 Apollo Drive, Suite 201
Chelmsford MA 01824
US

FC-76-92 (hex) Semptian Co.,Ltd.
FC7692 (base 16) Semptian Co.,Ltd.
Floor 19, Block 1A, Phase 1, International Innovation Valley, Xili Community, Nanshan District
Shenzhen Guangdong 518052
CN

FC-AF-BE (hex) TireCheck GmbH
FCAFBE (base 16) TireCheck GmbH
Schmelzofenvorstadt 33
Heidenheim/Brenz Baden-Württemberg 89520
DE

18-48-BE (hex) Amazon Technologies Inc.
1848BE (base 16) Amazon Technologies Inc.

P.O Box 8102
Reno NV 89507
US

20-20-27 (hex) Shenzhen Sundray Technologies Company Limited
202027 (base 16) Shenzhen Sundray Technologies Company Limited
5th Floor, Block A4, Nanshan ipark,NO.1001 Xue Yuan Road, Nanshan District, Shenzhen 518055, P.R. China
Shenzhen Guangdong 518057
CN

68-67-25
(hex) Espressif Inc.
686725 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

88-6E-E1 (hex) Erbe Elektromedizin GmbH
886EE1 (base 16) Erbe Elektromedizin GmbH
Waldhoernlestrasse 17
Tuebingen Baden-Wuerttemberg 72072
DE

C4-75-AB (hex) Intel Corporate
C475AB (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C8-41-8A (hex) Samsung Electronics.,LTD
C8418A (base 16) Samsung Electronics.,LTD
129, Samsung-ro, Yeongtong-gu
Suwon Gyeonggi-Do 443-742
KR

54-7D-40 (hex) Powervision Tech Inc.
547D40 (base 16) Powervision Tech Inc.
Zone E,Ocean Venture Valley, No.40, Yangguang Rd, Nanhai new District
Weihai Shandong 264200
CN

C0-D7-AA (hex) Arcadyan Corporation
C0D7AA (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

AC-AC-E2 (hex) CHANGHONG (HONGKONG)

TRADING LIMITED
ACACE2 (base 16) CHANGHONG (HONGKONG) TRADING LIMITED
Unit 1412, 14/F., West Tower, Shun Tak Centre, 168-200 Connaught Road Central, HongKong
HONG KONG HONG KONG 999077
HK

80-B7-45 (hex) The Silk Technologies ILC LTD
80B745 (base 16) The Silk Technologies ILC LTD
Haozma 1
Yoqneam 20692
IL

F8-9E-94 (hex) Intel Corporate
F89E94 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C4-03-A8 (hex) Intel Corporate
C403A8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

0C-B0-88 (hex) AITelecom
0CB088 (base 16) AITelecom
1018,hanshin IT Tower Digital-ro 272 Guro-gu
seoul 08389
KR

20-66-FD (hex) CONSTELL8 NV
2066FD (base 16) CONSTELL8 NV
Sint-Bernardse steenweg 72
Hemiksem 2620
BE

64-42-12 (hex) Shenzhen Water World Information Co.,Ltd.
644212 (base 16) Shenzhen Water World Information
Co.,Ltd.
Room 201, No.26, Yifenghua Innovation Industrial Park, Xinshi Community, Dalang Subdistrict, Longhua District.
Shenzhen Guangdong 518000
CN

4C-AB-F8 (hex) ASKEY COMPUTER CORP
4CABF8 (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

8C-56-46 (hex) LG Electronics
8C5646 (base 16) LG Electronics
222 LG-ro, Jinwi-Myeon
Pyeongtaek-si Gyeonggi-do 17709
KR

CC-71-90 (hex) VIETNAM POST AND TELECOMMUNICATION INDUSTRY TECHNOLOGY JOINT STOCK COMPANY
CC7190 (base 16) VIETNAM POST AND TELECOMMUNICATION INDUSTRY TECHNOLOGY JOINT STOCK COMPANY
HIGH TECH INDUSTRIAL ZONE I,HOA LAC, HIGH TECH PARK, HA BANG, THACH THAT
HANOI Hanoi 100000
VN

48-BD-4A (hex) HUAWEI TECHNOLOGIES CO.,LTD
48BD4A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-D4-E0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A8D4E0
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A0-40-6F (hex) HUAWEI TECHNOLOGIES CO.,LTD
A0406F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-4F-1A (hex) HUAWEI TECHNOLOGIES CO.,LTD
004F1A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

74-33-A6 (hex) Shenzhen SuperElectron Technology Co.,Ltd.
7433A6 (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

2C-0D-A7 (hex) Intel Corporate
2C0DA7 (base 16) Intel Corporate

Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D4-63-DE (hex) vivo Mobile Communication Co., Ltd.
D463DE (base
16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

A8-5B-F7 (hex) Aruba, a Hewlett Packard Enterprise Company
A85BF7 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

D4-B7-D0 (hex) Ciena Corporation
D4B7D0 (base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

14-00-E9 (hex) Mitel Networks Corporation
1400E9 (base 16) Mitel Networks Corporation
4000 Innovation Drive
Kanata Ontario K2K3K1
CA

0C-90-43 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
0C9043 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

54-1F-8D (hex) zte corporation
541F8D (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

2C-F1-BB
(hex) zte corporation
2CF1BB (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

BC-2C-E6 (hex) Cisco Systems, Inc
BC2CE6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

CC-ED-4D (hex) Cisco Systems, Inc
CCED4D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

18-A9-A6 (hex) Nebra Ltd
18A9A6 (base 16) Nebra Ltd
Unit 4, Bells Yew Green Business Court
Bells Yew Green East Sussex TN3 9BJ
GB

B0-F7-C4 (hex) Amazon Technologies Inc.
B0F7C4 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

4C-8D-53 (hex) HUAWEI TECHNOLOGIES CO.,LTD
4C8D53 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

6C-0F-0B (hex) China Mobile Group Device Co.,Ltd.
6C0F0B (base 16) China
Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

DC-2C-6E (hex) Routerboard.com
DC2C6E (base 16) Routerboard.com
Mikrotikls SIA
Riga Riga LV1009
LV

C4-BD-E5 (hex) Intel Corporate
C4BDE5 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

34-53-D2 (hex) Sagemcom Broadband SAS
3453D2 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

34-29-EF (hex) Qingdao Haier Technology Co.,Ltd
3429EF (base 16) Qingdao Haier Technology Co.,Ltd
A01, No.1, Haier Road, Laoshan District,
Qingdao Shan dong 266000
CN

A0-B5-3C (hex) Technicolor Delivery Technologies Belgium NV
A0B53C (base 16) Technicolor Delivery Technologies Belgium NV
Prins Boudewijnlaan 47
Edegem - Belgium B-2650
BE

54-1D-61 (hex) YEESTOR Microelectronics Co., Ltd
541D61 (base 16) YEESTOR
Microelectronics Co., Ltd
7th Floor, Block A1, Digital Technology Park, Gaoxin 7th Road South,
Shenzhen 518057
CN

70-09-71 (hex) Samsung Electronics Co.,Ltd
700971 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

D0-1B-49 (hex) Samsung Electronics Co.,Ltd
D01B49 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

FC-5F-49 (hex) Zhejiang Dahua Technology Co., Ltd.
FC5F49 (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

30-35-C5 (hex) Huawei Device Co., Ltd.
3035C5 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808

CN

18-EF-3A (hex) Sichuan AI-Link Technology Co., Ltd.
18EF3A (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou, Industrial Park
Mianyang Sichuan 622650
CN

A0-FF-22
(hex) SHENZHEN APICAL TECHNOLOGY CO., LTD
A0FF22 (base 16) SHENZHEN APICAL TECHNOLOGY CO., LTD
9/F.B Building,Tsinghua Unis Infoport ,LangShan Road,North District,Hi-tech Industrial Park,Nanshan
Shenzhen 518000
CN

F8-20-A9 (hex) Huawei Device Co., Ltd.
F820A9 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

64-9E-31 (hex) Beijing Xiaomi Mobile Software Co., Ltd
649E31 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

6C-B0-FD (hex) Shenzhen Xinghai Iot Technology Co.,Ltd
6CB0FD (base 16) Shenzhen Xinghai Iot Technology Co.,Ltd
South 8th Road, science and Technology Park, Nanshan District
Shenzhen 518063
CN

24-CD-8D (hex) Murata Manufacturing Co., Ltd.
24CD8D (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi
Kyoto 617-8555
JP

5C-02-14 (hex) Beijing Xiaomi Mobile Software Co., Ltd
5C0214 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

E4-28-05 (hex) Pivotal Optics
E42805 (base 16) Pivotal Optics

125 Wolf Road Suite 315
Albany NY 12205
US

38-1F-8D (hex) Tuya Smart Inc.
381F8D (base 16) Tuya Smart Inc.
160 Greentree Drive, Suite 101
Dover DE 19904
US

84-A9-38 (hex) LCFC(HeFei) Electronics Technology co., ltd
84A938 (base 16) LCFC(HeFei) Electronics Technology co., ltd
No.3188,YunGu Road?Hefei Economic and Technological Development Area
HEFEI ANHUI 230601
CN

20-8C-47 (hex) Tenstorrent Inc
208C47 (base 16) Tenstorrent Inc
150 Ferrand Dr #901
Toronto ON M3C 3E5
CA

68-15-D3 (hex) Zaklady Elektroniki i Mechaniki Precyzyjnej R&G S.A.
6815D3 (base 16) Zaklady
Elektroniki i Mechaniki Precyzyjnej R&G S.A.
ul. Traugutta 7
Mielec 39-300
PL

00-80-E7 (hex) Leonardo UK Ltd
0080E7 (base 16) Leonardo UK Ltd
Christopher Martin Road
Basildon Essex SS14 3EL
GB

3C-9F-C3 (hex) Beijing Sinead Technology Co., Ltd.
3C9FC3 (base 16) Beijing Sinead Technology Co., Ltd.
Room 504,Block A, New material Building, Yongfeng industrial, Haiding District, Beijing.China
Beijing Beijing 100094
CN

00-B0-EC (hex) EACEM
00B0EC (base 16) EACEM
Avenue Louise 140, Bte 6
B-1050 BRUSSELS
BE

6C-D3-EE (hex) ZIMI CORPORATION

6CD3EE (base 16) ZIMI CORPORATION
Room A913, 159 Chengjiang Road
Jiangyin City Jiangsu Province 214400
CN

04-CD-15 (hex) Silicon Laboratories
04CD15 (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin 78701
US

78-5E-A2 (hex) Sunitec Enterprise Co.,Ltd
785EA2 (base 16) Sunitec Enterprise Co.,Ltd
3F.,No.98-1,Mincyuan
Rd.Sindian City
Taipei County 231 231141
CN

B0-BE-83 (hex) Apple, Inc.
B0BE83 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

10-32-1D (hex) HUAWEI TECHNOLOGIES CO.,LTD
10321D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E4-93-6A (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
E4936A (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

48-77-BD (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
4877BD (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

F8-56-C3 (hex) zte corporation
F856C3 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

38-FD-F8 (hex) Cisco
Systems, Inc
38FDF8 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

DC-F4-CA (hex) Apple, Inc.
DCF4CA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

7C-FC-16 (hex) Apple, Inc.
7CFC16 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

88-B9-45 (hex) Apple, Inc.
88B945 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

18-E1-DE (hex) Chengdu ChipIntelli Technology Co., Ltd
18E1DE (base 16) Chengdu ChipIntelli Technology Co., Ltd
No. 106, 1st floor, building 6, No. 1480, North Tianfu Avenue, Chengdu high tech Zone
Chengdu Sichuan 610041
CN

8C-F6-81 (hex) Silicon Laboratories
8CF681 (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

7C-66-EF (hex) Hon Hai Precision IND.CO.,LTD
7C66EF (base 16) Hon Hai Precision IND.CO.,LTD
No. 66 Chung Shan Road TU-Cheng Industrial
district TAIPEI TAIWAN
TAIPEI TAIWAN 33859
CN

44-17-93 (hex) Espressif Inc.
441793 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203

CN

00-A3-88 (hex) SKY UK LIMITED
00A388 (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

7C-C1-77 (hex) INGRAM MICRO SERVICES
7CC177 (base 16) INGRAM MICRO SERVICES
100 CHEMIN DE BAILLOT
MONTAUBAN 82000
FR

78-76-D9 (hex) EXARA Group
7876D9 (base 16) EXARA Group
Andropova pr. 18 1
Moscow 115432
RU

94-A4-08 (hex) Shenzhen Trolink Technology CO, LTD
94A408 (base 16) Shenzhen Trolink Technology CO, LTD
201 B building 4 shijie, Chashu industry 505 block, Baoan airport Sanwei community, Hangcheng street Baoan area.
Shenzhen GuangDong 518000
CN

7C-84-37 (hex) China Post Communications Equipment Co., Ltd.
7C8437 (base 16) China Post Communications Equipment
Co., Ltd.
6 / F, block D, No.156, Beijing International Financial Building, Fuxingmennei street,Xicheng District
Beijing Beijing 100031
CN

B8-4D-43 (hex) HUNAN FN-LINK TECHNOLOGY LIMITED
B84D43 (base 16) HUNAN FN-LINK TECHNOLOGY LIMITED
No.8, Litong Road, Liuyan Economic & Tec
Changsha HUNAN 410329
CN

D0-F8-65 (hex) ITEL MOBILE LIMITED
D0F865 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

C8-9F-1A (hex) HUAWEI TECHNOLOGIES CO.,LTD
C89F1A (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D8-68-52 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D86852 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

AC-64-90 (hex) HUAWEI TECHNOLOGIES CO.,LTD
AC6490 (base 16) HUAWEI
TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-4A-63 (hex) TPV Display Technology(Xiamen) Co.,Ltd.
A84A63 (base 16) TPV Display Technology(Xiamen) Co.,Ltd.
No.1, Xianghai Road, Xiamen Torch Hi-Tech Industrial Development Zone, China
Xiamen Fujian 361101
CN

60-8F-A4 (hex) Nokia Solutions and Networks GmbH & Co. KG
608FA4 (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

24-3F-AA (hex) Huawei Device Co., Ltd.
243FAA (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

D8-67-D3 (hex) Huawei Device Co., Ltd.
D867D3 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

48-47-4B (hex) Huawei Device Co., Ltd.
48474B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng
Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

80-6F-1C (hex) Huawei Device Co., Ltd.
806F1C (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E0-A2-58 (hex) Wanbang Digital Energy Co.,Ltd
E0A258 (base 16) Wanbang Digital Energy Co.,Ltd
NO.39 Longhui Road,Wujin District
Changzhou 213100
CN

4C-BC-E9 (hex) LG Innotek
4CBCE9 (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

38-5C-76 (hex) PLANTRONICS, INC.
385C76 (base 16) PLANTRONICS, INC.
345 ENCINAL STREET
SANTA CRUZ CA 95060
US

9C-50-D1 (hex) Murata Manufacturing Co., Ltd.
9C50D1 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

14-00-20 (hex) LongSung Technology (Shanghai) Co.,Ltd.
140020 (base 16) LongSung Technology (Shanghai) Co.,Ltd.
Room 606, Block B,
Bldg. 1, No. 3000 Longdong Avenue., Zhangjiang Hi-Tech Park, Pudong District
ShangHai 201203
CN

30-B9-30 (hex) zte corporation
30B930 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

94-98-69 (hex) zte corporation
949869 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

50-3D-EB (hex) Zhejiang Tmall Technology Co., Ltd.
503DEB (base 16) Zhejiang Tmall Technology Co., Ltd.
Ali Center,No.3331 Keyuan South RD (Shenzhen bay), Nanshan District, Shenzhen Guangdong province
Shenzhen GuangDong 518000
CN

F8-7F-A5 (hex) GREATEK
F87FA5 (base 16) GREATEK
ESTRADA MUNICIPAL PEDRO R SILVA
EXTREMA MG 37640000
BR

74-5C-FA (hex) Shenzhen Shunrui Gaojie Technology Co., Ltd.
745CFA (base 16) Shenzhen Shunrui Gaojie Technology Co., Ltd.
502,Building A,No.18,Gongye 2nd
Road,Dakan Industrial Zone,Dakan community,Xili street,Nanshan District
Shenzhen Guangdong 518055
CN

5C-DF-B8 (hex) Shenzhen Unionmemory Information System Limited
5CDFB8 (base 16) Shenzhen Unionmemory Information System Limited
Factory Flat D24/F-02, Dong Jiao Tou, Houhai Road, Shekou, Nan Shan District
Shenzhen Guangdong 518067
CN

2C-1A-05 (hex) Cisco Systems, Inc
2C1A05 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

B4-0E-CF (hex) Bouffalo Lab (Nanjing) Co., Ltd.
B40ECF (base 16) Bouffalo Lab (Nanjing) Co., Ltd.
5F, Gongxiang Space, No.100 Tuanjie Road, Nanjing, China
Nanjing Jiangsu 211800
CN

F8-38-69 (hex) LG Electronics
F83869 (base 16) LG Electronics
Science Park W5, 10, Magokjungang 10-ro, Gangseo-gu
Seoul 07796
KR

2C-05-47 (hex) Shenzhen Phaten Tech. LTD
2C0547 (base 16) Shenzhen Phaten Tech. LTD
C-6 ideamonto industril 7002 Songbai Road

Guangming District Shenzhen City Guangdong, China
Shenzhen 518108
CN

E0-C5-8F (hex) China Mobile IOT Company Limited
E0C58F (base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area
Chongqing Chongqing 401336
CN

E0-0A-F6 (hex) Liteon Technology Corporation
E00AF6 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

F0-5E-CD (hex) Texas Instruments
F05ECD (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

2C-3A-91 (hex) Huawei Device Co., Ltd.
2C3A91 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

64-F7-05 (hex) Huawei Device Co., Ltd.
64F705 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

78-50-05 (hex) MOKO TECHNOLOGY Ltd
785005 (base 16) MOKO TECHNOLOGY Ltd
2F, Building1,No.37
Xiaxintang Xintang village,Fucheng Street,Longhua Distric
Shenzhen Guangdong 518110
CN

F0-B6-1E (hex) Intel Corporate
F0B61E (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C8-4D-44 (hex) Shenzhen Jiapeng Huaxiang Technology Co.,Ltd

C84D44 (base 16) Shenzhen Jiapeng Huaxiang Technology Co.,Ltd
2nd floor, building 5, taihemei Industrial Zone, 128 Chunfeng Road, longbeiling community, Tangxia Town
Shenzhen Guangdong 518109
CN

98-B1-77 (hex) LANDIS + GYR
98B177 (base 16) LANDIS + GYR
78th km Old National Road Athens-Corinth
Corinth 20100
GR

A0-29-BD (hex) Team Group Inc
A029BD (base 16) Team Group Inc
3F., No. 166 Jian 1st Rd.,
Zhonghe Dist. New Taipei City, 235
TW

64-DC-DE (hex) ZheJiang FuChunJiang Information Technology Co.,Ltd
64DCDE (base 16) ZheJiang FuChunJiang Information Technology Co.,Ltd
608 Golf Road, Dongzhou Street, Fuyang District,
Hangzhou City, Zhejiang Province, China
Hangzhou City Zhejiang Province 311400
CN

00-91-9E (hex) Intel Corporate
00919E (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

60-CE-41 (hex) HUAWEI TECHNOLOGIES CO.,LTD
60CE41 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

28-17-09 (hex) HUAWEI TECHNOLOGIES CO.,LTD
281709 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

60-6E-E8 (hex) Xiaomi Communications Co Ltd
606EE8 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

EC-97-E0 (hex) Hangzhou Ezviz Software Co.,Ltd.
EC97E0 (base 16) Hangzhou Ezviz Software Co.,Ltd.
Room 302, Unit B, Building 2, 399 Danfeng Road,Binjiang District
Hangzhou
Zhejiang 310051
CN

D0-B6-6F (hex) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
D0B66F (base 16) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
NO.8 Tangzhuang Road,Suzhou Industrial Park,Su ZhouCity,JiangSu Province,China
Suzhou 215021
CN

30-09-C0 (hex) Motorola Mobility LLC, a Lenovo Company
3009C0 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

70-1A-D5 (hex) Openpath Security, Inc.
701AD5 (base 16) Openpath Security, Inc.
13428 Maxella Ave, #866
Marina Del Rey CA 90292
US

FC-2E-19 (hex) China Mobile Group Device Co.,Ltd.
FC2E19 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

50-F9-08 (hex) Wizardlab Co., Ltd.
50F908 (base 16) Wizardlab Co., Ltd.
#1603, 5, Gasan digital 1-ro, Geumcheon-gu, Seoul
Seoul 08594
KR

EC-94-CB (hex) Espressif Inc.
EC94CB (base
16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

50-C2-E8 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
50C2E8 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007

CN

B0-46-92 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
B04692 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

AC-76-4C (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
AC764C (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

5C-58-E6 (hex) Palo Alto Networks
5C58E6 (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

0C-E1-59 (hex) Shenzhen iStartek Technology Co., Ltd.
0CE159 (base
16) Shenzhen iStartek Technology Co., Ltd.
Zone B, 4/F, Building A6, Qinghu Dongli Industrial Park, No. 416 Xuegang North Road, Longhua District,
Shenzhen Guangdong 518109
CN

00-14-13 (hex) Trebing & Himstedt Prozeßautomation GmbH & Co. KG
001413 (base 16) Trebing & Himstedt Prozeßautomation GmbH & Co. KG
Wilhelm Hennemann Straße 13
Schwerin Mecklenburg-Vorpommern 19061
DE

00-07-99 (hex) Tipping Point Technologies, Inc.
000799 (base 16) Tipping Point Technologies, Inc.
7501 B N. Capital of TX Hwy.
Austin TX 78731
US

DC-8D-8A (hex) Nokia Solutions and Networks GmbH & Co. KG
DC8D8A (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

70-86-CE (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
7086CE (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde

Foshan Guangdong 528311
CN

50-0F-59
(hex) STMicrolectronics International NV
500F59 (base 16) STMicrolectronics International NV
39, Chemin du Champ-des-Filles
Geneva, Plan-les-Quates 1228
CH

90-B5-7F (hex) Shenzhen iComm Semiconductor CO.,LTD
90B57F (base 16) Shenzhen iComm Semiconductor CO.,LTD
Room 601,Block B ,Digital Building,Garden City
Shenzhen No.1079 Nanhai Road,Nanshan District 518067
CN

E4-2A-AC (hex) Microsoft Corporation
E42AAC (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

20-E7-B6 (hex) Universal Electronics, Inc.
20E7B6 (base 16) Universal Electronics, Inc.
201 E. Sandpointe Ave
Santa Ana CA 92707
US

D4-3D-F3 (hex) Zyxel Communications Corporation
D43DF3 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

20-57-9E (hex) HUNAN FN-LINK TECHNOLOGY LIMITED
20579E (base 16) HUNAN FN-LINK TECHNOLOGY LIMITED
No.8,
Litong Road, Liuyan Economic & Tec
Changsha HUNAN 410329
CN

C8-84-CF (hex) HUAWEI TECHNOLOGIES CO.,LTD
C884CF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E0-23-D7 (hex) Sleep Number

E023D7 (base 16) Sleep Number
1001 Third Avenue South
Minneapolis MN 55404
US

24-1D-48 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
241D48 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

28-77-77 (hex) zte corporation
287777 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

60-E3-2B (hex) Intel Corporate
60E32B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D8-BE-65 (hex) Amazon Technologies Inc.
D8BE65 (base 16) Amazon
Technologies Inc.
P.O Box 8102
Reno NV 89507
US

28-DE-A8 (hex) zte corporation
28DEA8 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

80-8A-BD (hex) Samsung Electronics Co.,Ltd
808ABD (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

3C-CD-57 (hex) Beijing Xiaomi Mobile Software Co., Ltd
3CCD57 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

80-6A-10 (hex) Whisker Labs - Ting
806A10 (base 16) Whisker Labs - Ting
12410 Milestone Center Dr, Suite 325
Germantown MD 20876
US

C0-F8-27 (hex) Rapidmax Technology Corporation
C0F827 (base 16) Rapidmax Technology Corporation
3F., No.531, Zhongzheng Rd. Xindian Dist.
New Taipei City 23148
TW

24-5E-48
(hex) Apple, Inc.
245E48 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

08-C7-29 (hex) Apple, Inc.
08C729 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C4-C3-6B (hex) Apple, Inc.
C4C36B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E8-A7-30 (hex) Apple, Inc.
E8A730 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

60-06-E3 (hex) Apple, Inc.
6006E3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-EC-85 (hex) eero inc.
ACEC85 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

10-6F-D9 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
106FD9 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

58-4D-42 (hex) Dragos, Inc.
584D42
(base 16) Dragos, Inc.
1745 Dorsey Rd, Suite R
Hanover MD 21076
US

60-8A-10 (hex) Microchip Technology Inc.
608A10 (base 16) Microchip Technology Inc.
2355 W. Chandler Blvd.
Chandler AZ 85224
US

A8-64-F1 (hex) Intel Corporate
A864F1 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D0-1E-1D (hex) SaiNXT Technologies LLP
D01E1D (base 16) SaiNXT Technologies LLP
Shop No. 7, Sonawala Building, 1st Floor, Proctor Road, Grant Road (E)
Mumbai Maharashtra 400007
IN

E0-67-81 (hex) Dongguan Liesheng Electronic Co., Ltd.
E06781 (base 16) Dongguan Liesheng Electronic Co., Ltd.
F5, Building B, North Block, Gaosheng Tech Park, No. 84 Zhongli Road, Nancheng District, Dongguan Ci
dongguan guangdong 523000
CN

B8-DA-E8 (hex) Huawei Device Co., Ltd.
B8DAE8 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong
523808
CN

B8-AE-1D (hex) Guangzhou Xingyi Electronic Technology Co.,Ltd
B8AE1D (base 16) Guangzhou Xingyi Electronic Technology Co.,Ltd
Room 805-808, Room 801, Self-made Building 4, No. 1, 3 and 5, Kesheng Road, Guangzhou Private Science Park,

No. 1633, Beitai Road, Baiyun District, Guangzhou
Guangzhou 51000
CN

D4-54-8B (hex) Intel Corporate
D4548B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

10-09-F9 (hex) Amazon Technologies Inc.
1009F9 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

D0-3E-7D (hex) CHIPSEA TECHNOLOGIES (SHENZHEN) CORP.
D03E7D (base 16) CHIPSEA TECHNOLOGIES (SHENZHEN) CORP.
9F,BLOCK A,GARDEN CITY DIGITAL BUILDING,NO.1079 NANHAI ROAD,NANSHAN DISTRICT
SHEN ZHEN GUANG DONG 518000
CN

90-69-76 (hex) Withrobot Inc.
906976 (base 16) Withrobot Inc.
#1001, Seoul Forest M-tower, 31, Ttukseom-ro 1-gil, Seongdong-gu
Seoul
Seoul 04778
KR

FC-92-57 (hex) Renesas Electronics (Penang) Sdn. Bhd.
FC9257 (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

60-DB-15 (hex) New H3C Technologies Co., Ltd
60DB15 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

5C-A7-21 (hex) New H3C Technologies Co., Ltd
5CA721 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

A4-2A-71 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD

A42A71 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

60-A5-E2 (hex) Intel Corporate
60A5E2 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

48-F8-FF (hex) CHENGDU KT ELECTRONIC HI-TECH CO.,LTD
48F8FF
(base 16) CHENGDU KT ELECTRONIC HI-TECH CO.,LTD
No.9, 3rd Wuke Road, Wuhou District
Chengdu Sichuan Province 610045
CN

E8-C1-E8 (hex) Shenzhen Xiao Bi En Culture Education Technology Co.,Ltd.
E8C1E8 (base 16) Shenzhen Xiao Bi En Culture Education Technology Co.,Ltd.
4GH Unit,Block D,Central Avenue,Intersection of Xixiang Avenue and Baoyuan Road,Labor Community,Xixiang Street,Baoan District
Shenzhen China 518102
CN

7C-70-DB (hex) Intel Corporate
7C70DB (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

8C-94-CC (hex) SFR
8C94CC (base 16) SFR
12 rue jean-philippe Rameau CS 80001
La plaine saint denis FRANCE 93634
FR

98-F2-17 (hex) Castlenet Technology Inc.
98F217 (base 16) Castlenet Technology Inc.
5F., No. 10, Daye Rd., Beitou Dist.
Taipei City 112030
TW

44-5B-ED (hex) Aruba, a Hewlett Packard Enterprise Company
445BED (base 16) Aruba, a Hewlett Packard
Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054

US

84-EB-EF (hex) Cisco Systems, Inc
84EBEF (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A8-23-16 (hex) Nokia
A82316 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

38-E3-9F (hex) Motorola Mobility LLC, a Lenovo Company
38E39F (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

90-80-60 (hex) Nilfisk A/S
908060 (base 16) Nilfisk A/S
Kornmarksvej 1
Broendby 2605
DK

70-A6-CC (hex) Intel Corporate
70A6CC (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

6C-43-3C (hex) TECNO MOBILE LIMITED
6C433C (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

78-BB-88
(hex) Maxio Technology (Hangzhou) Ltd.
78BB88 (base 16) Maxio Technology (Hangzhou) Ltd.
6F, Building C, No.459 Qianmo Road, Juguang Center
Hangzhou Zhejiang 310051
CN

44-67-52 (hex) Wistron INFOCOMM (Zhongshan) CORPORATION
446752 (base 16) Wistron INFOCOMM (Zhongshan) CORPORATION

15 Cuiwei Road, Cuiheng New District
zhongshan Guangdong 528400
CN

60-B6-E1 (hex) Texas Instruments
60B6E1 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

6C-79-B8 (hex) Texas Instruments
6C79B8 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

8C-A3-99 (hex) SERVERCOM (INDIA) PRIVATE LIMITED
8CA399 (base 16) SERVERCOM (INDIA) PRIVATE LIMITED
E-43/1 OKHLA INDUSTRIAL AREA PHASE-II NEW DELHI SOUTH DELHI
NEW DELHI NA
IN

D4-8D-D9 (hex) Meld Technology, Inc
D48DD9 (base 16) Meld Technology, Inc
725 San Aleso Ave
Sunnyvale CA 94085
US

58-2F-F7
(hex) Sagemcom Broadband SAS
582FF7 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

AC-E7-7B (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
ACE77B (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12,TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

40-F4-20 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
40F420 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12,TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

64-5D-92 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD

645D92 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12,TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road, Chengdu, Sichuan
Chengdu Sichuan 610000
CN

8C-FD-15 (hex) Imagine Marketing Private Limited
8CFD15 (base 16) Imagine Marketing Private
Limited
501B, Shri Guru Har Krishan Bhavan Charat Singh Colony Road, Chakala, Andheri East,
Mumbai Maharashtra 400093
IN

14-22-3B (hex) Google, Inc.
14223B (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

C4-FF-22 (hex) Huawei Device Co., Ltd.
C4FF22 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

A0-A0-DC (hex) Huawei Device Co., Ltd.
A0A0DC (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C4-80-8A (hex) Cloud Diagnostics Canada ULC
C4808A (base 16) Cloud Diagnostics Canada ULC
72 Victoria St. S., Unit 100
Kitchener Ontario N2G 4Y9
CA

2C-DD-E9 (hex) Arista Networks
2CDDE9 (base 16) Arista Networks
5453 Great America Parkway
Santa Clara CA 95054
US

70-97-41 (hex) Arcadyan Corporation
709741 (base 16) Arcadyan
Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

E4-08-E7 (hex) Quectel Wireless Solutions Co.,Ltd.
E408E7 (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

0C-8D-CA (hex) Samsung Electronics Co.,Ltd
0C8DCA (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

CC-0D-E7 (hex) B METERS S.R.L.
CC0DE7 (base 16) B METERS S.R.L.
VIA FRIULI 3
GONARS UDINE 33050
IT

44-56-E2 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
4456E2 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

68-3A-48 (hex) SAMJIN Co., Ltd.
683A48 (base 16) SAMJIN Co., Ltd.
199-6, Anyang 7-dong, Manan-gu
Anyang-si Gyeonggi-do 430-817
KR

CC-A2-60 (hex) Sichuan Tianyi Comheart Telecom
Co.,LTD
CCA260 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12,TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

9C-61-21 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
9C6121 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12,TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

E0-4F-BD (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
E04FBD (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12,TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000

CN

5C-A1-76 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
5CA176 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12, TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

4C-D3-AF (hex) HMD Global Oy
4CD3AF (base 16) HMD Global Oy
Bertel
Jungin aukio 9
Espoo 02600
FI

C8-51-42 (hex) Samsung Electronics Co.,Ltd
C85142 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

10-E4-C2 (hex) Samsung Electronics Co.,Ltd
10E4C2 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

AC-D8-29 (hex) Bouffalo Lab (Nanjing) Co., Ltd.
ACD829 (base 16) Bouffalo Lab (Nanjing) Co., Ltd.
5F, Gongxiang Space, No.100 Tuanjie Road, Nanjing, China
Nanjing Jiangsu 211800
CN

5C-62-5A (hex) CANON INC.
5C625A (base 16) CANON INC.
30-2 Shimomaruko 3-chome,
Ohta-ku Tokyo 146-8501
JP

7C-0A-3F (hex) Samsung Electronics Co.,Ltd
7C0A3F (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

08-AA-89 (hex) zte corporation
08AA89 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China

shenzhen
guangdong 518057
CN

04-D6-0E (hex) FUNAI ELECTRIC CO., LTD.
04D60E (base 16) FUNAI ELECTRIC CO., LTD.
7-7-1, Nakagaito
Daito Osaka 574-0013
JP

B0-C9-52 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
B0C952 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

D0-E0-42 (hex) Cisco Systems, Inc
D0E042 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

C4-74-69 (hex) BT9
C47469 (base 16) BT9
Dolev 33
Tefen 2495900
IL

F4-6F-A4 (hex) Physik Instrumente GmbH & Co. KG
F46FA4 (base 16) Physik Instrumente GmbH & Co. KG
Auf der Roemerstr. 1
Karlsruhe 76228
DE

C8-BB-81 (hex) Huawei Device Co., Ltd.
C8BB81 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

1C-47-2F (hex) Huawei Device Co., Ltd.
1C472F (base 16) Huawei
Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

20-5E-64 (hex) Huawei Device Co., Ltd.

205E64 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

F4-41-9E (hex) Huawei Device Co., Ltd.
F4419E (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

90-F9-B7 (hex) HUAWEI TECHNOLOGIES CO.,LTD
90F9B7 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F4-45-88 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F44588 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

60-57-7D (hex) eero inc.
60577D (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

3C-37-12 (hex) AVM Audiovisuelles Marketing
und Computersysteme GmbH
3C3712 (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

54-AE-D2 (hex) CSL Dualcom Ltd
54AED2 (base 16) CSL Dualcom Ltd
Salamander Quay West, Park Lane
Harefield Middlesex UB9 6NZ
GB

80-B6-55 (hex) Intel Corporate
80B655 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

0C-CB-0C (hex) iSYS RTS GmbH
0CCB0C (base 16) iSYS RTS GmbH
Moosacher Str. 88
Munich Bavaria 80809
DE

F4-4E-E3 (hex) Intel Corporate
F44EE3 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

78-F2-35 (hex) Sichuan AI-Link Technology Co., Ltd.
78F235 (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou, Industrial Park
Mianyang Sichuan 622650
CN

08-2F-E9 (hex) HUAWEI TECHNOLOGIES CO.,LTD
082FE9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road,
Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

98-48-74 (hex) HUAWEI TECHNOLOGIES CO.,LTD
984874 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

1C-A6-81 (hex) HUAWEI TECHNOLOGIES CO.,LTD
1CA681 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E8-A6-60 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E8A660 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

CC-24-2E (hex) Shenzhen SuperElectron Technology Co.,Ltd.
CC242E (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

F0-01-6E (hex) Tianyi Telecom Terminals Company Limited
F0016E (base 16) Tianyi
Telecom Terminals Company Limited
6/F Changshang Building, No.29 North Xinhua Street, Xicheng District
Beijing 100031
CN

EC-0B-AE (hex) Hangzhou BroadLink Technology Co.,Ltd
EC0BAE (base 16) Hangzhou BroadLink Technology Co.,Ltd
Room 101,1/F,Unit C,Building 1,No.57 Jiang'er Road,Changhe Street,Binjiang District,Hangzhou,Zhejiang,P.R.China
Hangzhou Zhejiang 310052
CN

80-25-11 (hex) ITEL MOBILE LIMITED
802511 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

38-02-DE (hex) Sercomm Corporation.
3802DE (base 16) Sercomm Corporation.
3F,No.81,Yu-Yih Rd.,Chu-Nan Chen
Miao-Lih Hsuan 115
TW

D0-CF-D8 (hex) Huizhou Boshijie Technology Co.,Ltd
D0CFD8 (base 16) Huizhou Boshijie Technology Co.,Ltd
No.1 Xisan road, Huifeng west road, Zhongkai high-tech zone
Huizhou Guangdong 516006
CN

2C-BE-EB (hex) Nothing
Technology Limited
2CBEEB (base 16) Nothing Technology Limited
11 Staple Inn
London London WC1V 7QH
GB

74-09-AC (hex) Quext, LLC
7409AC (base 16) Quext, LLC
5214 68th St., Suite 201
Lubbock TX 79424
US

F0-4A-02 (hex) Cisco Systems, Inc
F04A02 (base 16) Cisco Systems, Inc

80 West Tasman Drive
San Jose CA 94568
US

50-9A-46 (hex) Safetrust Inc
509A46 (base 16) Safetrust Inc
8112 Mill Creek Rd
Fremont CA 94539
US

A4-35-2D (hex) TRIZ Networks corp.
A4352D (base 16) TRIZ Networks corp.
815 Daewangpangyo-ro
Sujeong-gu, Seongnam-si Gyeonggi-do 13449
KR

B8-81-FA (hex) Apple, Inc.
B881FA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

9C-76-0E (hex) Apple, Inc.
9C760E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

94-EA-32 (hex) Apple, Inc.
94EA32 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

50-F4-EB (hex) Apple, Inc.
50F4EB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

28-C7-09 (hex) Apple, Inc.
28C709 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

08-2E-36 (hex) Huawei Device Co., Ltd.

082E36 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C8-BF-FE (hex) Huawei Device Co., Ltd.
C8BFFE (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

04-9F-81 (hex) NETSCOUT SYSTEMS INC
049F81 (base 16) NETSCOUT SYSTEMS INC
310 Littleton Road
Westford MA 01886
US

00-80-8C (hex) NETSCOUT SYSTEMS INC
00808C (base 16) NETSCOUT SYSTEMS INC
310 Littleton Road
Westford MA 01886
US

40-24-B2 (hex) Sichuan AI-Link Technology Co., Ltd.
4024B2 (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou,
Industrial Park
Mianyang Sichuan 622650
CN

64-0D-22 (hex) LG Electronics (Mobile Communications)
640D22 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

8C-31-E2 (hex) DAYOUPLUS
8C31E2 (base 16) DAYOUPLUS
3F 509, Dunchon-daero, Jungwon-gu, Seongnam-si, Gyeonggi-do, Republic of Korea
Seongnam-si Gyeonggi-do 13217
KR

10-39-4E (hex) Hisense broadband multimedia technology Co.,Ltd
10394E (base 16) Hisense broadband multimedia technology Co.,Ltd
Song ling Road 399
Qingdao 266000
CN

20-A7-F9 (hex) SHENZHEN OLANBOA TECHNOLOGY CO., LTD
20A7F9 (base 16) SHENZHEN OLANBOA TECHNOLOGY CO., LTD
4/F, Building B, Block A, Longquan Science Park, Tongfuyu Phase II, Tongsheng Community, Dalang Street, Longhua District, Shenzhen
shenzhen Guangdong 518000
CN

C0-06-C3 (hex) TP-Link Corporation Limited
C006C3 (base 16) TP-Link Corporation Limited
Room
901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

F4-C7-AA (hex) Marvell Semiconductors
F4C7AA (base 16) Marvell Semiconductors
15485 Sand Canyon Ave
IRVINE CA 92618
US

70-F0-88 (hex) Nintendo Co.,Ltd
70F088 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

CC-ED-21 (hex) Nokia Shanghai Bell Co., Ltd.
CCED21 (base 16) Nokia Shanghai Bell Co., Ltd.
No.388 Ning Qiao Road,Jin Qiao Pudong Shanghai
Shanghai 201206
CN

FC-4D-A6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
FC4DA6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

3C-15-12 (hex) Shenzhen Huanhu Technology Co.,Ltd
3C1512 (base 16) Shenzhen Huanhu Technology Co.,Ltd
7 / F, building C4, Hengfeng Industrial City, 739 Zhoushi Road, Hezhou community, Hangcheng street, Bao'an District,
Shenzhen
Shenzhen 518000
CN

18-C2-41 (hex) SonicWall
18C241 (base 16) SonicWall

1033 McCarthy Blvd
Milpitas CA 95035
US

58-45-4C (hex) Ericsson AB
58454C (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

B4-14-E6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B414E6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

AC-99-29 (hex) HUAWEI TECHNOLOGIES CO.,LTD
AC9929 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-BA-1C (hex) Huawei Device Co., Ltd.
04BA1C (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

7C-3D-2B (hex) Huawei Device Co., Ltd.
7C3D2B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

14-51-7E
(hex) New H3C Technologies Co., Ltd
14517E (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

08-3A-38 (hex) New H3C Technologies Co., Ltd
083A38 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

F8-AB-E5 (hex) shenzhen worldelite electronics co., LTD

F8ABE5 (base 16) shenzhen worldelite electronics co., LTD
Office 5 F, Xiang Yu Industrial Park, Longsheng Road, Longgang Dist
Shenzhen Guangdong 51800
CN

08-BB-3C (hex) Flextronics Tech.(Ind) Pvt Ltd
08BB3C (base 16) Flextronics Tech.(Ind) Pvt Ltd
365, Benjamin Road
Sricity Vardahiah Palem(M),Chilamathur Village, Chittoor Distict 517646
IN

10-D5-61 (hex) Tuya Smart Inc.
10D561 (base 16) Tuya Smart Inc.
160 Greentree Drive, Suite 101
Dover DE 19904
US

F0-A3-B2 (hex) Hui Zhou Gaoshengda Technology
Co.,LTD
F0A3B2 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

18-48-59 (hex) Castlenet Technology Inc.
184859 (base 16) Castlenet Technology Inc.
5th Fl., No.159-1, Sec.3, Beishen Rd., Shenkeng Dist.,
New Taipei City 222004
TW

2C-FD-B3 (hex) Tonly Technology Co. Ltd
2CFDB3 (base 16) Tonly Technology Co. Ltd
Section 37, Zhongkai Hi-Tech Development Zone
Huizhou Guangdong 516006
CN

9C-DB-CB (hex) Wuhan Funshion Online Technologies Co.,Ltd
9CDBCB (base 16) Wuhan Funshion Online Technologies Co.,Ltd
5th Floor,Financial Port Building A9,No.77 Optical Valley Avenue, East Lake High-Tech Development Zone, Wuhan
Wuhan CN/Hubei 430000
CN

2C-CE-1E (hex) Cloudtronics Pty Ltd
2CCE1E (base 16) Cloudtronics Pty Ltd
Unit 1 6 Powells Road Brookvale
Sydney NSW 2100
AU

DC-9A-8E (hex) Nanjing Cocomm electronics
co., LTD
DC9A8E (base 16) Nanjing Cocomm electronics co., LTD
Room 201,the Qinheng technology park building
Nanjing Jiangsu 210012
CN

58-AE-F1 (hex) Fiberhome Telecommunication Technologies Co.,LTD
58AEF1 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

E8-6C-C7 (hex) IEEE Registration Authority
E86CC7 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

C0-D4-6B (hex) Huawei Device Co., Ltd.
C0D46B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

9C-95-67 (hex) Huawei Device Co., Ltd.
9C9567 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

A4-7B-1A (hex) Huawei Device Co., Ltd.
A47B1A (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong
523808
CN

D8-59-82 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D85982 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

48-B2-5D (hex) HUAWEI TECHNOLOGIES CO.,LTD
48B25D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park

Dongguan 523808
CN

A4-1B-34 (hex) China Mobile Group Device Co.,Ltd.
A41B34 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

14-7D-05 (hex) SERCOMM PHILIPPINES INC
147D05 (base 16) SERCOMM PHILIPPINES INC
Lot 1 & 5, Phase 1, Filinvest Technology Park 1, Brgy. Punta, Calamba City
Calamba Lot 1
PH

78-7A-6F (hex) Juice Technology AG
787A6F (base 16) Juice Technology AG
Gewerbestrasse 7
Cham Select State CH-6330
CH

64-17-59 (hex) Intellivision Holdings, LLC
641759 (base 16) Intellivision
Holdings, LLC
1844 E Carnegie
Santa Ana CA 92705
US

50-43-48 (hex) ThingsMatrix Inc.
504348 (base 16) ThingsMatrix Inc.
9442 North Capital of Texas Hwy Plaza One Suite 500 Austin
Austin TX 78759
US

80-45-DD (hex) Intel Corporate
8045DD (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-2D-B3 (hex) AMPAK Technology,Inc.
002DB3 (base 16) AMPAK Technology,Inc.
3F, No.15-1 Zhonghua Road, Hsinchu Industrail Park, Hukou,
Hsinchu Hsinchu,Taiwan R.O.C. 30352
TW

E4-FD-45 (hex) Intel Corporate
E4FD45 (base 16) Intel Corporate

Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

14-50-51 (hex) SHARP Corporation
145051 (base 16) SHARP Corporation
1 Takumi-cho, Sakai-ku
Sakai City Osaka 590-8522
JP

3C-C7-86 (hex) DONGGUAN HUARONG COMMUNICATION TECHNOLOGIES CO.,LTD.
3CC786 (base 16) DONGGUAN HUARONG COMMUNICATION TECHNOLOGIES CO.,LTD.
No.130
Dongxing East Road, Dongkeng Town
DONGGUAN 523450
CN

A4-7E-36 (hex) EM Microelectronic
A47E36 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

98-38-7D (hex) ITRONIC TECHNOLOGY CO . , LTD .
98387D (base 16) ITRONIC TECHNOLOGY CO . , LTD .
2F C Building Fu Xin Lin lndustrial Park Hangcheng
lndustrial Zone Xixiang Street Baoan District Shenzhen 518100
CN

AC-D6-18 (hex) OnePlus Technology (Shenzhen) Co., Ltd
ACD618 (base 16) OnePlus Technology (Shenzhen) Co., Ltd
18C02, 18C03, 18C04 ,18C05,TAIRAN BUILDING,
Shenzhen Guangdong 518000
CN

6C-56-40 (hex) BLU Products Inc
6C5640 (base 16) BLU Products Inc
10814 NW 33rd Street
Miami FL 33172
US

88-C3-E5 (hex) Betop Techonologies
88C3E5 (base 16) Betop Techonologies
6F., No. 669, Bannan Road, Zhonghe District
New Taipei City 235
TW

E4-28-A4 (hex) Prama India Private Limited

E428A4
(base 16) Prama India Private Limited
Off 103, 765 Fly Edge, TPS III Jn of S V Rd, Nr Kora Kendra
Borivali West, Mumbai Maharashtra 400092
IN

94-3A-91 (hex) Amazon Technologies Inc.
943A91 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

18-4C-AE (hex) CONTINENTAL
184CAE (base 16) CONTINENTAL
1 AVENUE PAUL OURLIAC
TOULOUSE 31100
FR

C4-D0-E3 (hex) Intel Corporate
C4D0E3 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

28-C8-7C (hex) zte corporation
28C87C (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

30-7C-4A (hex) Huawei Device Co., Ltd.
307C4A (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C8-D8-84 (hex) Universal Electronics, Inc.
C8D884 (base 16) Universal Electronics, Inc.
201
E. Sandpointe Ave
Santa Ana CA 92707
US

B4-A2-5C (hex) Cambium Networks Limited
B4A25C (base 16) Cambium Networks Limited
Unit B2, Linhay Business Park,
Ashburton Devon TQ13 7UP
GB

2C-71-FF (hex) Amazon Technologies Inc.
2C71FF (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

DC-00-77 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
DC0077 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

48-78-5E (hex) Amazon Technologies Inc.
48785E (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

20-C7-4F (hex) SensorPush
20C74F (base 16) SensorPush
PO Box 211
Garrison NY 10524
US

24-E8-53 (hex) LG Innotek
24E853 (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

48-29-52 (hex) Sagemcom
Broadband SAS
482952 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

B0-5D-D4 (hex) ARRIS Group, Inc.
B05DD4 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

F0-21-E0 (hex) eero inc.
F021E0 (base 16) eero inc.
660 3rd Street
San Francisco 94107

US

60-6C-63 (hex) Hitron Technologies. Inc
606C63 (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

00-F3-61 (hex) Amazon Technologies Inc.
00F361 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

00-40-DD (hex) HONG TECHNOLOGIES
0040DD (base 16) HONG TECHNOLOGIES
532 WEDDELL DRIVE
SUNNYVALE CA 94089
US

40-8C-1F (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
408C1F (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS
CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

04-F0-3E (hex) Huawei Device Co., Ltd.
04F03E (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E8-D7-65 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E8D765 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

50-2D-FB (hex) IGShare Co., Ltd.
502DFB (base 16) IGShare Co., Ltd.
410-ho, 28, Digital-ro 30-gil
Guro-gu, SEOUL 08389
KR

40-EE-15 (hex) Zioncom Electronics (Shenzhen) Ltd.
40EE15 (base 16) Zioncom Electronics (Shenzhen) Ltd.
A1&A2 Building,Lantian Technology Park, Xinyu Road, Xingqiao Henggang Block, Shajing Street, Baoan District

Shenzhen Guangdong 518000
CN

6C-0D-E1 (hex) Dongguan Cannice Precision Manufacturing Co., Ltd.
6C0DE1 (base 16) Dongguan Cannice Precision Manufacturing Co., Ltd.
Dongguan
Cannice Precision Manufacturing Co., Ltd.
Dongguan Guangdong 523170
CN

6C-03-09 (hex) Cisco Systems, Inc
6C0309 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

BC-D2-95 (hex) Cisco Systems, Inc
BCD295 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

80-C5-01 (hex) OctoGate IT Security Systems GmbH
80C501 (base 16) OctoGate IT Security Systems GmbH
Friedrich List Strasse 42
Paderborn NRW 33100
DE

14-D1-9E (hex) Apple, Inc.
14D19E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

40-C7-11 (hex) Apple, Inc.
40C711 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

5C-70-17 (hex) Apple, Inc.
5C7017 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

8C-EC-7B (hex) Apple, Inc.
8CEC7B (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

C4-30-CA
(hex) SD Biosensor
C430CA (base 16) SD Biosensor
C-4th & 5th Floor, Digital Empire Building, 980-3
Suwon-si Kyonggi-do ASI|KR|KS002|SUWON
KR

28-05-2E (hex) Dematic Corp
28052E (base 16) Dematic Corp
507 Plymouth Ave NE
Grand Rapids MI 49505
US

E4-5E-1B (hex) Google, Inc.
E45E1B (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

78-E2-2C (hex) Huawei Device Co., Ltd.
78E22C (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C0-D0-26 (hex) Huawei Device Co., Ltd.
C0D026 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

A4-42-3B (hex) Intel Corporate
A4423B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

EC-BE-5F (hex) Vestel Elektronik San ve Tic. A.S.
ECBE5F (base 16) Vestel Elektronik
San ve Tic. A.S.
Organize san
Manisa Turket 45030
TR

70-CF-49 (hex) Intel Corporate
70CF49 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

48-51-C5 (hex) Intel Corporate
4851C5 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

20-EF-BD (hex) Roku, Inc
20EFBD (base 16) Roku, Inc
1155 Coleman Ave
San Jose CA 95110
US

F4-2A-7D (hex) TP-LINK TECHNOLOGIES CO.,LTD.
F42A7D (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

04-F9-93 (hex) Infinix mobility limited
04F993 (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

BC-BD-9E (hex) ITEL MOBILE LIMITED
BCBD9E (base 16) ITEL MOBILE
LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

BC-6D-05 (hex) Dusun Electron Co.,Ltd.
BC6D05 (base 16) Dusun Electron Co.,Ltd.
NO.640 FengQing str.,DeQing, ZheJiang, China
huzhou zhejiang 313200
CN

C0-E0-18 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C0E018 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

5C-E7-47 (hex) HUAWEI TECHNOLOGIES CO.,LTD
5CE747 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-FF-BA (hex) HUAWEI TECHNOLOGIES CO.,LTD
A8FFBA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F0-39-65 (hex) Samsung Electronics Co.,Ltd
F03965 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi
Gyeongbuk 730-350
KR

EC-7C-B6 (hex) Samsung Electronics Co.,Ltd
EC7CB6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

58-A6-39 (hex) Samsung Electronics Co.,Ltd
58A639 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A4-E5-7C (hex) Espressif Inc.
A4E57C (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

8C-0F-C9 (hex) Huawei Device Co., Ltd.
8C0FC9 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

30-4E-1B (hex) Huawei Device Co., Ltd.
304E1B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone

Dongguan Guangdong 523808
CN

74-50-4E (hex) New H3C Technologies Co., Ltd
74504E (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou
Zhejiang 310052
CN

7C-C2-C6 (hex) TP-Link Corporation Limited
7CC2C6 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

08-9A-C7 (hex) zte corporation
089AC7 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

74-4C-A1 (hex) Liteon Technology Corporation
744CA1 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

B4-B2-91 (hex) LG Electronics
B4B291 (base 16) LG Electronics
222 LG-ro, JINWI-MYEON
Pyeongtaek-si Gyeonggi-do 451-713
KR

D8-00-93 (hex) Aurender Inc.
D80093 (base 16) Aurender Inc.
#1612, OBIZTOWER, 126, Beolmal-ro, Dongan-gu
Anyang-si Gyeonggi-do 14057
KR

38-90-52 (hex) HUAWEI TECHNOLOGIES CO.,LTD
389052 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng
Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C0-F6-EC (hex) HUAWEI TECHNOLOGIES CO.,LTD

C0F6EC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

CC-20-8C (hex) HUAWEI TECHNOLOGIES CO.,LTD
CC208C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

88-5A-85 (hex) Wistron Neweb Corporation
885A85 (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

94-8E-D3 (hex) Arista Networks
948ED3 (base 16) Arista Networks
5453 Great America Parkway
Santa Clara CA 95054
US

24-E4-C8 (hex) Fiberhome Telecommunication Technologies Co.,LTD
24E4C8 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

68-76-27 (hex) Zhuhai Dingzhi Electronic
Technology Co., Ltd
687627 (base 16) Zhuhai Dingzhi Electronic Technology Co., Ltd
6th floor, No.2 Jinliang Road, Hongqi Town, Jinwan District
Zhuhai GuangDong 519000
CN

C8-6C-3D (hex) Amazon Technologies Inc.
C86C3D (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

70-61-7B (hex) Cisco Systems, Inc
70617B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A0-02-4A (hex) IEEE Registration Authority
A0024A (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

04-E7-7E (hex) We Corporation Inc.
04E77E (base 16) We Corporation Inc.
201, 33, Deokcheon-ro, Manan-gu
Anyang-si Gyeonggi-do 14088
KR

74-EC-B2 (hex) Amazon Technologies Inc.
74ECB2 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

4C-52-EC (hex) SOLARWATT GmbH
4C52EC (base 16) SOLARWATT GmbH
Maria-Reiche-Str. 2a
Dresden
01109
DE

E0-1F-ED (hex) Nokia Shanghai Bell Co., Ltd.
E01FED (base 16) Nokia Shanghai Bell Co., Ltd.
No.388 Ning Qiao Road,Jin Qiao Pudong Shanghai
Shanghai 201206
CN

30-D9-41 (hex) Raydium Semiconductor Corp.
30D941 (base 16) Raydium Semiconductor Corp.
2F, No. 23, LiHsin Rd., Hsinchu Science Park
Hsinchu, Taiwan, R.O.C. TW 300
TW

14-6B-9A (hex) zte corporation
146B9A (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

9C-28-B3 (hex) Apple, Inc.
9C28B3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A0-78-17 (hex) Apple, Inc.
A07817 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

5C-87-30 (hex) Apple, Inc.
5C8730 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A4-AA-FE (hex) Huawei Device Co., Ltd.
A4AAFE (base 16) Huawei Device
Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

F8-3B-7E (hex) Huawei Device Co., Ltd.
F83B7E (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

88-15-C5 (hex) Huawei Device Co., Ltd.
8815C5 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

B4-1B-B0 (hex) Apple, Inc.
B41BB0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

58-D3-49 (hex) Apple, Inc.
58D349 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F4-34-F0 (hex) Apple, Inc.
F434F0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

B0-8C-75 (hex) Apple, Inc.
B08C75 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

70-40-FF (hex) Huawei Device Co., Ltd.
7040FF (base 16) Huawei Device Co., Ltd.
No.2
of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

34-D6-93 (hex) Huawei Device Co., Ltd.
34D693 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

9C-9A-C0 (hex) LEGO System A/S
9C9AC0 (base 16) LEGO System A/S
Aastvej 1
Billund DK-7190
DK

A0-9F-10 (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
A09F10 (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268? Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

20-1B-88 (hex) Dongguan Liesheng Electronic Co., Ltd.
201B88 (base 16) Dongguan Liesheng Electronic Co., Ltd.
F5, Building B, North Block, Gaosheng Tech Park, No. 84 Zhongli Road, Nancheng District, Dongguan Ci
dongguan guangdong 523000
CN

E8-EB-34 (hex) Cisco Systems, Inc
E8EB34 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

3C-BD-C5
(hex) Arcadyan Corporation
3CBDC5 (base 16) Arcadyan Corporation

No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

A8-DA-0C (hex) SERVERCOM (INDIA) PRIVATE LIMITED
A8DA0C (base 16) SERVERCOM (INDIA) PRIVATE LIMITED
E-43/1 OKHLA INDUSTRIAL AREA PHASE-II NEW DELHI SOUTH DELHI
NEW DELHI 110001
IN

58-60-D8 (hex) ARRIS Group, Inc.
5860D8 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

50-A5-DC (hex) ARRIS Group, Inc.
50A5DC (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

24-94-93 (hex) FibRSol Global Network Limited
249493 (base 16) FibRSol Global Network Limited
17, Deep vihar, Vikas Nagar,, Near Mayank hospital,, Uttam Nagar,
New Delhi Delhi 110059
IN

28-D0-44 (hex) Shenzhen Xinyin technology company
28D044 (base 16) Shenzhen Xinyin technology company
2/F, Building C, Jianxing Technology Building, Shahe
West Road, Xili Street, Nanshan District
Shenzhen Guangdong 518055
CN

5C-10-C5 (hex) Samsung Electronics Co.,Ltd
5C10C5 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A8-40-7D (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
A8407D (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

FC-4B-57 (hex) Peerless Instrument Division of Curtiss-Wright

FC4B57 (base 16) Peerless Instrument Division of Curtiss-Wright
1966D Broadhollow Road
East Farmingdale NY 11735
US

74-B7-B3 (hex) Shenzhen YOUHUA Technology Co., Ltd
74B7B3 (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

DC-9B-D6 (hex) TCT mobile ltd
DC9BD6 (base 16) TCT mobile ltd
No.86 hechang
7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

DC-8C-1B (hex) vivo Mobile Communication Co., Ltd.
DC8C1B (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

F8-53-29 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F85329 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E8-0A-EC (hex) Jiangsu Hengtong Optic-Electric Co., LTD
E80AEC (base 16) Jiangsu Hengtong Optic-Electric Co., LTD
88 Hengtong Dadao, Qidu Town, Wujiang District
Suzhou Jiangsu Province 215200
CN

C4-DE-7B (hex) Huawei Device Co., Ltd.
C4DE7B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

6C-1A-75 (hex) Huawei Device Co., Ltd.
6C1A75 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong
523808
CN

40-D4-BD (hex) SK Networks Service CO., LTD.
40D4BD (base 16) SK Networks Service CO., LTD.
120, Jangan-ro, Jangan-gu
Suwon-si Gyeonggi-do 16312
KR

84-1B-77 (hex) Intel Corporate
841B77 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

7C-C2-94 (hex) Beijing Xiaomi Mobile Software Co., Ltd
7CC294 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

E0-E2-E6 (hex) Espressif Inc.
E0E2E6 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

6C-76-37 (hex) Huawei Device Co., Ltd.
6C7637 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

68-D4-8B (hex) Hailo Technologies Ltd.
68D48B (base 16) Hailo Technologies Ltd.
94 Yigal
Alon
Tel Aviv 6789139
IL

C4-37-72 (hex) Virtuozzo International GmbH
C43772 (base 16) Virtuozzo International GmbH
Vordergasse 59
Schaffhausen 8200
CH

CC-3B-27 (hex) TECNO MOBILE LIMITED
CC3B27 (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG

Hong Kong Hong Kong 999077
HK

3C-D2-E5 (hex) New H3C Technologies Co., Ltd
3CD2E5 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

9C-73-70 (hex) HUAWEI TECHNOLOGIES CO.,LTD
9C7370 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

98-3F-60 (hex) HUAWEI TECHNOLOGIES CO.,LTD
983F60 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C0-3F-DD
(hex) HUAWEI TECHNOLOGIES CO.,LTD
C03FDD (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

30-32-35 (hex) Qingdao Intelligent&Precise Electronics Co.,Ltd.
303235 (base 16) Qingdao Intelligent&Precise Electronics Co.,Ltd.
No.218 Qianwangang Road
Qingdao Shangdong 266510
CN

00-30-1F (hex) OPTICAL NETWORKS, INC.
00301F (base 16) OPTICAL NETWORKS, INC.
166 BAYPOINTE PARKWAY
SAN JOSE CA 95134
US

08-58-A5 (hex) Beijing Vrv Software Corpoaration Limited.
0858A5 (base 16) Beijing Vrv Software Corpoaration Limited.
Room 1602, block C, Zhongguancun Science and technology development building, 34 Zhongguancun South Street
Beijing Beijing 100000
CN

18-EE-86 (hex) Novatel Wireless Solutions, Inc.
18EE86 (base 16) Novatel Wireless Solutions, Inc.

9710 Scranton Rd., Suite 200
San Diego CA 92121
US

00-13-91 (hex) OUEN
CO.,LTD.
001391 (base 16) OUEN CO.,LTD.
Gotanda NT Bldg.7F,
Shinagawa-ku Tokyo 141-0022
JP

58-24-29 (hex) Google, Inc.
582429 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

7C-73-EB (hex) Huawei Device Co., Ltd.
7C73EB (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E4-8F-1D (hex) Huawei Device Co., Ltd.
E48F1D (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

CC-F5-5F (hex) E FOCUS INSTRUMENTS INDIA PRIVATE LIMITED
CCF55F (base 16) E FOCUS INSTRUMENTS INDIA PRIVATE LIMITED
PLOT NO 21, 1ST FLOOR, NO 22, SAMAYAPURAM MAIN ROAD PORUR
CHENNAI TAMIL NADU 600116
IN

08-7C-39 (hex) Amazon Technologies Inc.
087C39 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

14-13-33 (hex) AzureWave Technology Inc.
141333
(base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

A4-17-8B (hex) HUAWEI TECHNOLOGIES CO.,LTD
A4178B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-B2-71 (hex) HUAWEI TECHNOLOGIES CO.,LTD
94B271 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

80-8F-E8 (hex) Intelbras
808FE8 (base 16) Intelbras
BR 101, km 210, S/N°
São José Santa Catarina 88104800
BR

18-CC-18 (hex) Intel Corporate
18CC18 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C0-C9-E3 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
C0C9E3 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

F8-8C-21
(hex) TP-LINK TECHNOLOGIES CO.,LTD.
F88C21 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

C4-27-8C (hex) Huawei Device Co., Ltd.
C4278C (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

78-05-8C (hex) mMax Communications, Inc.
78058C (base 16) mMax Communications, Inc.
5151 California Ave., Suite 100
Irvine CA 92617
US

C4-A7-2B (hex) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
C4A72B (base 16) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
Unit East Block22-24/F,Skyworth semiconductor design Bldg., Gaoxin Ave.4.S.,Nanshan District,Shenzhen,China
SHENZHEN GUANGDONG 518057
CN

D0-C3-1E (hex) JUNGJIN Electronics Co.,Ltd
D0C31E (base 16) JUNGJIN Electronics Co.,Ltd
41-11, Yangjipyeon-ro
Uiwang-si
Gyeonggi-do 16007
KR

5C-34-00 (hex) Hisense Electric Co.,Ltd
5C3400 (base 16) Hisense Electric Co.,Ltd
Qianwangang Road 218
Qingdao Shandong 266510
CN

D8-10-CB (hex) Andrea Informatique
D810CB (base 16) Andrea Informatique
30 Rue Jules Guesde
Paris 75014
FR

FC-19-28 (hex) Actions Microelectronics Co., Ltd
FC1928 (base 16) Actions Microelectronics Co., Ltd
201, No 9 Building, Software Park,Kejizhonger Rd.,
Shenzhen Gangdong 518057
CN

E0-91-3C (hex) Kyeungin CNS Co., Ltd.
E0913C (base 16) Kyeungin CNS Co., Ltd.
13, Gyeongin-ro, Sosa-gu
Bucheon-si Gyeonggi-do 14730
KR

D0-59-19 (hex) zte corporation
D05919 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

00-B8-81 (hex) New platforms LLC
00B881 (base 16) New platforms LLC
Varshavskoe shosse, 35, Bld. 1
Moscow 117105

RU

B0-98-BC (hex) Huawei
Device Co., Ltd.
B098BC (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

24-01-6F (hex) Huawei Device Co., Ltd.
24016F (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

84-E3-42 (hex) Tuya Smart Inc.
84E342 (base 16) Tuya Smart Inc.
FLAT/RM 806 BLK ? 8/F CHEUNG SHA WAN PLAZA 833 CHEUNG SHA WAN ROAD KL
hongkong Hong Kong 999077
CN

FC-CD-2F (hex) IEEE Registration Authority
FCCD2F (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

C0-3C-59 (hex) Intel Corporate
C03C59 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

4C-3B-DF (hex) Microsoft Corporation
4C3BDF (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

B4-31-61 (hex) Realme Chongqing Mobile Telecommunications
Corp.,Ltd.
B43161 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

B4-FB-E3 (hex) AltoBeam (China) Inc.
B4FBE3 (base 16) AltoBeam (China) Inc.

B808, Tsinghua Tongfang Hi-Tech Plaza, Haidian
Beijing Beijing 100083
CN

18-87-40 (hex) Xiaomi Communications Co Ltd
188740 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

34-1C-F0 (hex) Xiaomi Communications Co Ltd
341CF0 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

5C-ED-8C (hex) Hewlett Packard Enterprise
5CED8C (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

30-AF-CE (hex) vivo Mobile Communication Co., Ltd.
30AFCE (base 16) vivo Mobile
Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

64-F9-47 (hex) Senscomm Semiconductor Co., Ltd.
64F947 (base 16) Senscomm Semiconductor Co., Ltd.
Room 303-309, 3rd Floor International Building, NO.2 Suzhou Avenue West
Suzhou Jiangsu 215000
CN

DC-00-B0 (hex) FREEBOX SAS
DC00B0 (base 16) FREEBOX SAS
16 rue de la Ville l'Eveque
PARIS IdF 75008
FR

70-74-14 (hex) Murata Manufacturing Co., Ltd.
707414 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

A0-76-4E (hex) Espressif Inc.

A0764E (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

CC-4F-5C (hex) IEEE Registration Authority
CC4F5C (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

FC-6D-D1 (hex) APRESIA Systems, Ltd.
FC6DD1 (base 16) APRESIA Systems,
Ltd.
Tsukuba Network Technical Center, Kidamari 3550
Tsuchiura-shi Ibaraki-ken 300-0026
JP

6C-09-BF (hex) Fiberhome Telecommunication Technologies Co.,LTD
6C09BF (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

10-D7-B0 (hex) Sagemcom Broadband SAS
10D7B0 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

44-59-43 (hex) zte corporation
445943 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

34-36-54 (hex) zte corporation
343654 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

C8-E6-00 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C8E600 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D4-D5-1B
(hex) HUAWEI TECHNOLOGIES CO.,LTD
D4D51B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

24-91-BB (hex) HUAWEI TECHNOLOGIES CO.,LTD
2491BB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

64-5E-10 (hex) HUAWEI TECHNOLOGIES CO.,LTD
645E10 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

EC-F2-2B (hex) TECNO MOBILE LIMITED
ECF22B (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

30-96-10 (hex) Huawei Device Co., Ltd.
309610 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

30-57-8E
(hex) eero inc.
30578E (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

FC-B3-BC (hex) Intel Corporate
FCB3BC (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C8-16-DA (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
C816DA (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.

Chongqing China 401120
CN

B0-44-14 (hex) New H3C Technologies Co., Ltd
B04414 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

E4-5F-01 (hex) Raspberry Pi Trading Ltd
E45F01 (base 16) Raspberry Pi Trading Ltd
Maurice Wilkes Building, Cowley Road
Cambridge CB4 0DS
GB

74-8F-3C (hex) Apple, Inc.
748F3C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

40-F9-46 (hex) Apple, Inc.
40F946
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

1C-FE-2B (hex) Amazon Technologies Inc.
1CFE2B (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

A4-AE-12 (hex) Hon Hai Precision Industry Co., Ltd.
A4AE12 (base 16) Hon Hai Precision Industry Co., Ltd.
GuangDongShenZhen
ShenZhen GuangDong 518109
CN

9C-9D-7E (hex) Beijing Xiaomi Mobile Software Co., Ltd
9C9D7E (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

DC-A3-A2 (hex) Feng mi(Beijing)technology co., LTD
DCA3A2 (base 16) Feng mi(Beijing)technology co., LTD

RenHe Town barracks south street 10 yuan 33 level 301
shunyi district Beijing 101300
CN

EC-57-0D (hex) AFE Inc.
EC570D (base 16) AFE Inc.
11210 County Line Rd
Mount Pleasant WI 53177
US

7C-25-DA (hex) FN-LINK TECHNOLOGY
LIMITED
7C25DA (base 16) FN-LINK TECHNOLOGY LIMITED
A Building,HuiXin industial park,No 31, YongHe road, Fuyong town, Bao'an District
SHENZHEN GUANGDONG 518100
CN

30-59-B7 (hex) Microsoft
3059B7 (base 16) Microsoft
1 Microsoft Way
Redmond Washington 98052
US

74-12-B3 (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
7412B3 (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

94-47-B0 (hex) BEIJING ESWIN COMPUTING TECHNOLOGY CO., LTD
9447B0 (base 16) BEIJING ESWIN COMPUTING TECHNOLOGY CO., LTD
Room 2179, Floor2,Block D, Building 33, Centralised Office Area, No.99, Kechuangshisi Road, BDA, Beijing
BEIJING BEIJING 100176
CN

E4-5A-D4 (hex) Eltex Enterprise Ltd.
E45AD4 (base 16) Eltex Enterprise Ltd.
Okruzhnaya st. 29v
Novosibirsk 630020
RU

44-A5-4E (hex) Qorvo International Pte. Ltd.
44A54E
(base 16) Qorvo International Pte. Ltd.
1 Changi Business Park Avenue 1
#04-01 486058
SG

A8-69-8C (hex) Oracle Corporation
A8698C (base 16) Oracle Corporation
500 Oracle Parkway
Redwood Shores CA 94065
US

A4-AC-0F (hex) Huawei Device Co., Ltd.
A4AC0F (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

CC-FF-90 (hex) Huawei Device Co., Ltd.
CCFF90 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

54-05-DB (hex) LCFC(HeFei) Electronics Technology co., ltd
5405DB (base 16) LCFC(HeFei) Electronics Technology co., ltd
YunGu Road 3188-1
Hefei Anhui 230000
CN

00-30-54 (hex) Castlenet Technology Inc.
003054 (base 16) Castlenet Technology Inc.
5F., No. 10, Daye Rd., Beitou Dist.
Taipei City 112030
TW

00-13-68 (hex) Saab Danmark A/S
001368 (base
16) Saab Danmark A/S
Alsion 2
Soenderborg DK 6400
DK

B0-30-C8 (hex) Teal Drones, Inc.
B030C8 (base 16) Teal Drones, Inc.
5200 South Highland Drive
Holladay UT 84117
US

D4-F3-37 (hex) Xunison Ltd.
D4F337 (base 16) Xunison Ltd.
25 Kilbarbery Business Park, Upper Nangor Road
Dublin 22 Co. Dublin D22 NH32
IE

48-A2-B8 (hex) Chengdu Vision-Zenith Tech.Co,.Ltd
48A2B8 (base 16) Chengdu Vision-Zenith Tech.Co,.Ltd
China (Sichuan) Free Trade Test Zone Chengdu Hi-tech Zone 300 Jiaozi Avenue 3 buildings 22
Chengdu Sichuan 610041
CN

58-E8-73 (hex) HANGZHOU DANGBEI NETWORK TECH.Co.,Ltd
58E873 (base 16) HANGZHOU DANGBEI NETWORK TECH.Co.,Ltd
Build C,Wanfu Center,Binkang Road No.228,Binjiang Area
China 210051
CN

A0-68-1C (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
A0681C (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan
Guangdong 528311
CN

6C-44-2A (hex) HUAWEI TECHNOLOGIES CO.,LTD
6C442A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A4-7C-C9 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A47CC9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-0D-96 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C40D96 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

44-AF-28 (hex) Intel Corporate
44AF28 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D4-A6-51 (hex) Tuya Smart Inc.
D4A651 (base 16) Tuya Smart Inc.
160 Greentree Drive, Suite 101
Dover DE 19904

US

84-22-5E (hex) SHENZHEN TECHNEWCHIP TECHNOLOGY CO.,LTD.
84225E (base 16) SHENZHEN TECHNEWCHIP TECHNOLOGY CO.,LTD.
XILI
STREET
SHENZHEN GUANGDONG 5180000
CN

F8-5C-7D (hex) Shenzhen Honesty Electronics Co.,Ltd.
F85C7D (base 16) Shenzhen Honesty Electronics Co.,Ltd.
5/F,Zone B,Chitat Industrial Park,West Longping Road, Longgang District,Shenzhen City
Shenzhen Guangdong 518172
CN

84-2A-FD (hex) HP Inc.
842AFD (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

C0-B8-E6 (hex) Ruijie Networks Co.,LTD
C0B8E6 (base 16) Ruijie Networks Co.,LTD
No. 2, 7th floor, xingwangruijie, haixi hi-tech industrial park, high-tech zone, fuzhou city
Fuzhou Fujian 350002
CN

90-F6-44 (hex) Huawei Device Co., Ltd.
90F644 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

A8-35-12 (hex) Huawei Device Co., Ltd.
A83512 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

DC-41-A9 (hex) Intel
Corporate
DC41A9 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

8C-94-1F (hex) Cisco Systems, Inc
8C941F (base 16) Cisco Systems, Inc

80 West Tasman Drive
San Jose CA 94568
US

68-7D-B4 (hex) Cisco Systems, Inc
687DB4 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

84-6B-48 (hex) ShenZhen EepuLink Co., Ltd.
846B48 (base 16) ShenZhen EepuLink Co., Ltd.
4th Floor, Building 3, Nangang 1st industrial zone, Xili street, Nanshan district,
ShenZhen Guangdong 518000
CN

B4-60-ED (hex) Beijing Xiaomi Mobile Software Co., Ltd
B460ED (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

30-CC-21 (hex) zte corporation
30CC21 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

64-6C-80
(hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
646C80 (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

00-30-0B (hex) mPHASE Technologies, Inc.
00300B (base 16) mPHASE Technologies, Inc.
250 14th Street
Atlanta GA 30318
US

C0-18-50 (hex) Quanta Computer Inc.
C01850 (base 16) Quanta Computer Inc.
No. 211, Wen-Hwa 2nd Rd.,Kuei-Shan Dist.
Taoyuan City Taiwan 33377
TW

44-27-F3 (hex) 70mai Co.,Ltd.

4427F3 (base 16) 70mai Co.,Ltd.
Room 2220, building 2, No. 588, Zixing road
Shanghai MinHang District 201100
CN

00-08-96 (hex) Printronix, Inc.
000896 (base 16) Printronix, Inc.
14600 Myford Rd.
Irvine California 92623-9559
US

00-25-DC (hex) Sumitomo Electric Industries, Ltd
0025DC (base 16) Sumitomo Electric Industries, Ltd
1-1-3, Shimaya, Konohana-ku
Osaka
554-0024
JP

04-7D-7B (hex) Quanta Computer Inc.
047D7B (base 16) Quanta Computer Inc.
NO. 211, WEN HWA 2RD.,KUEI SHAN HSIANG, TAO YUAN SHIEN,
TAIPEI TAIWAN 333
TW

08-9E-01 (hex) Quanta Computer Inc.
089E01 (base 16) Quanta Computer Inc.
No.211, Wen Hwa 2nd Rd
Taoyuan Taiwan 33377
TW

A8-1E-84 (hex) Quanta Computer Inc.
A81E84 (base 16) Quanta Computer Inc.
No.211, Wen Hwa 2nd Rd., Kuei Shan Hsiang
Tao Yuan 33377
TW

B4-6F-2D (hex) Wahoo Fitness
B46F2D (base 16) Wahoo Fitness
90 W Wieuca Rd, Suite 110
Atlanta GA 30342
US

BC-7F-7B (hex) Huawei Device Co., Ltd.
BC7F7B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

F0-FA-C7 (hex) Huawei Device Co., Ltd.
F0FAC7 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

00-26-C0 (hex) EnergyHub
0026C0
(base 16) EnergyHub
232 3rd St C201
Brooklyn NY 11215
US

80-EA-CA (hex) Dialog Semiconductor Hellas SA
80EACA (base 16) Dialog Semiconductor Hellas SA
Leoforos Syggrou 143
Athens Attiki 17121
GR

5C-85-7E (hex) IEEE Registration Authority
5C857E (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

88-03-E9 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
8803E9 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

0C-DC-7E (hex) Espressif Inc.
0CDC7E (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

20-98-D8 (hex) Shenzhen Yingdakang Technology CO., LTD
2098D8 (base 16) Shenzhen Yingdakang Technology CO., LTD
8004,Building 51,Block 2,Shangtang Songzi Park, MinZhi St., Longhua Dist
Shenzhen 518055
CN

18-26-49
(hex) Intel Corporate
182649 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000

MY

A0-CF-F5 (hex) zte corporation
A0CFF5 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

98-B3-EF (hex) Huawei Device Co., Ltd.
98B3EF (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

50-F9-58 (hex) Huawei Device Co., Ltd.
50F958 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C0-A3-6E (hex) SKY UK LIMITED
C0A36E (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

34-C9-3D (hex) Intel Corporate
34C93D (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

1C-01-2D (hex) Ficer Technology
1C012D (base 16) Ficer Technology
2F, No.138, Daye
Rd., Beitou Dist.,
Taipei City 11268
TW

3C-A6-2F (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
3CA62F (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

00-05-C9 (hex) LG Innotek
0005C9 (base 16) LG Innotek
LG Component R&D Center

Ansan-si Gyeonggi-do 426-791
KR

AC-F1-08 (hex) LG Innotek
ACF108 (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

E4-1F-7B (hex) Cisco Systems, Inc
E41F7B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

60-32-B1 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
6032B1 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

7C-FD-6B (hex) Xiaomi Communications Co Ltd
7CFD6B (base 16) Xiaomi Communications Co Ltd
#019,
9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

7C-C7-7E (hex) Fiberhome Telecommunication Technologies Co.,LTD
7CC77E (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

34-58-40 (hex) HUAWEI TECHNOLOGIES CO.,LTD
345840 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

5C-64-7A (hex) HUAWEI TECHNOLOGIES CO.,LTD
5C647A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

DC-EF-80 (hex) HUAWEI TECHNOLOGIES CO.,LTD
DCEF80 (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

30-49-50 (hex) IEEE Registration Authority
304950 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

20-9E-79
(hex) Universal Electronics, Inc.
209E79 (base 16) Universal Electronics, Inc.
201 E. Sandpointe Ave
Santa Ana CA 92707
US

08-ED-9D (hex) TECNO MOBILE LIMITED
08ED9D (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

FC-14-99 (hex) Aimore Acoustics Incorporation
FC1499 (base 16) Aimore Acoustics Incorporation
16F,Tianliao Building(New Material industrial Park), Xueyuan Avenue, Nanshan District
Shenzhen Guangdong 518055
CN

88-94-8F (hex) Xi'an Zhisensor Technologies Co.,Ltd
88948F (base 16) Xi'an Zhisensor Technologies Co.,Ltd
No.52 Jinye 1st Road Xi'an,Shaanxi,China
Xi an Xi an High-Tech Zone 710077
CN

5C-D5-B5 (hex) Shenzhen WiSiYiLink Technology Co.,Ltd
5CD5B5 (base 16) Shenzhen WiSiYiLink Technology Co.,Ltd
Building a 3, huafengzhigu
Yuanshan hi tech Industrial Park, No.62, Yinhe Road, he'ao community, Yuanshan street, Longgang District
Shenzhen 518100
CN

AC-5F-EA (hex) OnePlus Technology (Shenzhen) Co., Ltd
AC5FEA (base 16) OnePlus Technology (Shenzhen) Co., Ltd
18C02, 18C03, 18C04 ,18C05,TAIRAN BUILDING,
Shenzhen Guangdong 518000
CN

00-BE-D5 (hex) New H3C Technologies Co., Ltd
00BED5 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

E8-6D-CB (hex) Samsung Electronics Co.,Ltd
E86DCB (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

18-95-52 (hex) 1MORE
189552 (base 16) 1MORE
TianliaoBuilding F14, New Materials Industrial Park, Xueyuan Blvd?Nanshan
Shenzhen Guangdong 518055
CN

98-C7-A4 (hex) Shenzhen HS Fiber Communication Equipment CO., LTD
98C7A4 (base 16) Shenzhen HS Fiber Communication Equipment CO., LTD
6F,
Bld#A, Dezhong Industrial Park, Yangmei Village, Bantian Town, Longgang District
Shenzhen Guangdong 518129
CN

04-4A-C6 (hex) Aipon Electronics Co., Ltd
044AC6 (base 16) Aipon Electronics Co., Ltd
#78, Qiaojiao Dong road, Qiaolong, Tangxia Town
Dongguan City Guangdong Province 523-710
CN

C0-FF-A8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C0FFA8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C8-7E-A1 (hex) TCL MOKA International Limited
C87EA1 (base 16) TCL MOKA International Limited
7/F, Building 22E 22 Science Park East Avenue
Hong Kong 999077
HK

64-2C-0F (hex) vivo Mobile Communication Co., Ltd.
642C0F (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860

CN

30-66-D0 (hex) Huawei Device Co., Ltd.
3066D0 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan
Lake Zone
Dongguan Guangdong 523808
CN

3C-B2-33 (hex) Huawei Device Co., Ltd.
3CB233 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

CC-C2-61 (hex) IEEE Registration Authority
CCC261 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

5C-FE-9E (hex) Wiwynn Corporation Tainan Branch
5CFE9E (base 16) Wiwynn Corporation Tainan Branch
4F, NO. 8, Beiyuan 3rd Rd., Anding Dist.,
Tainan 745
TW

88-1C-95 (hex) ITEL MOBILE LIMITED
881C95 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

00-20-03 (hex) PIXEL POWER LTD.
002003 (base 16) PIXEL POWER LTD.
Unit 5 College Business Park
CAMBRIDGE CB1 3HD
GB

F0-2E-51 (hex) Casa Systems
F02E51 (base 16) Casa Systems
18-20 Orion Road Lane Cove West
LANE
COVE NSW 2066
AU

F4-69-42 (hex) ASKEY COMPUTER CORP
F46942 (base 16) ASKEY COMPUTER CORP

10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

08-E9-F6 (hex) AMPAK Technology,Inc.
08E9F6 (base 16) AMPAK Technology,Inc.
3F, No.15-1 Zhonghua Road, Hsinchu Industrail Park, Hukou,
Hsinchu Hsinchu,Taiwan R.O.C. 30352
TW

C8-E4-2F (hex) Technical Research Design and Development
C8E42F (base 16) Technical Research Design and Development
186 Lincoln street
Boston MA 02111
US

68-0A-E2 (hex) Silicon Laboratories
680AE2 (base 16) Silicon Laboratories
7000 W. William Cannon Dr.
Austin TX 78735
US

24-14-07 (hex) Xiamen Sigmastar Technology Ltd.
241407 (base 16) Xiamen Sigmastar Technology Ltd.
15th Floor ,Unit A,Chuangxin Building, Software Park, Xiamen Torch Hi-Tech Industrial Development Zone, Xiamen,China
Xiamen Fujian 361005
CN

B4-79-47 (hex) Nutanix
B47947
(base 16) Nutanix
1740 Technology Drive Ste #150
San Jose CA 95110
US

04-F8-F8 (hex) Edgecore Networks Corporation
04F8F8 (base 16) Edgecore Networks Corporation
1 Creation RD 3.
Hsinchu 30077
TW

64-0B-D7 (hex) Apple, Inc.
640BD7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A8-91-3D (hex) Apple, Inc.
A8913D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

0C-3B-50 (hex) Apple, Inc.
0C3B50 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

4C-C9-5E (hex) Samsung Electronics Co.,Ltd
4CC95E (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

5C-91-57 (hex) HUAWEI TECHNOLOGIES CO.,LTD
5C9157 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-CB-88 (hex) Shenzhen Jingxun Software
Telecommunication Technology Co.,Ltd
04CB88 (base 16) Shenzhen Jingxun Software Telecommunication Technology Co.,Ltd
3/F,A5 Building Zhiyuan Community No.1001,Xueyuan Road Nanshan District
Shenzhen Guangdong 518055
CN

FC-A5-D0 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
FCA5D0 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

34-7D-F6 (hex) Intel Corporate
347DF6 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C8-5B-A0 (hex) Shenzhen Qihu Intelligent Technology Company Limited
C85BA0 (base 16) Shenzhen Qihu Intelligent Technology Company Limited
Room 201, Block A, No.1, Qianwan Road 1,Qianhai Shenzhen HongKong Modern Service Industry Cooperation Zone
Shenzhen Guangdong 518057

CN

E0-BE-03 (hex) Lite-On Network Communication (Dongguan) Limited
E0BE03 (base 16) Lite-On Network Communication (Dongguan)
Limited
30#Keji Rd,YinHu Industrial Area,Qingxi Town Dongguan City,Guang Dong China
Dongguan Guang Dong 523648
CN

A4-88-73 (hex) Cisco Systems, Inc
A48873 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

98-CB-A4 (hex) Benchmark Electronics
98CBA4 (base 16) Benchmark Electronics
Free Industrial Zone, Phase 1,
Bayan Lepas Penang 11900
MY

B4-62-93 (hex) Samsung Electronics Co.,Ltd
B46293 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-0D-A1 (hex) MIRAE ITS Co.,LTD.
000DA1 (base 16) MIRAE ITS Co.,LTD.
7F, ChangHyun B/D,960-1,HoGye1Dong
AnYang KyongiGiDo 431-840
KR

CC-D9-AC (hex) Intel Corporate
CCD9AC (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B8-80-4F (hex) Texas Instruments
B8804F (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

00-0F-2D
(hex) CHUNG-HSIN ELECTRIC & MACHINERY MFG.CORP.
000F2D (base 16) CHUNG-HSIN ELECTRIC & MACHINERY MFG.CORP.

NO. 25, Wen-Te Rd., Lo-Shan Village
Kwei Shan Hsiang Taoyuan Hsien 330
TW

18-3C-B7 (hex) Huawei Device Co., Ltd.
183CB7 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

5C-90-12 (hex) Owl Cyber Defense Solutions, LLC
5C9012 (base 16) Owl Cyber Defense Solutions, LLC
38A Grove Street
Ridgefield CT 06877
US

48-16-93 (hex) Lear Corporation GmbH
481693 (base 16) Lear Corporation GmbH
Industriestrasse 48
Kronach Bavaria 96317
DE

A4-BD-C4 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A4BDC4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

38-F7-CD (hex) IEEE Registration Authority
38F7CD (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway
NJ 08554
US

9C-29-76 (hex) Intel Corporate
9C2976 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

18-F6-97 (hex) Axiom Memory Solutions, Inc.
18F697 (base 16) Axiom Memory Solutions, Inc.
8619 Wall Street Bldg 4, Suite 400
Austin TX 78754-4591
US

5C-6B-D7 (hex) Foshan VIOMI Electric Appliance Technology Co. Ltd.

5C6BD7 (base 16) Foshan VIOMI Electric Appliance Technology Co. Ltd.
No.2 North Xinxi Fourth Road, Xiashi Village Committee,Lunjiao Sub-district Office, Shunde District
Foshan Guandong 528308
CN

18-48-CA (hex) Murata Manufacturing Co., Ltd.
1848CA (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

CC-0D-F2 (hex) Motorola Mobility LLC, a Lenovo Company
CC0DF2 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

94-43-4D (hex) Ciena
Corporation
94434D (base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

00-01-CD (hex) ARtem
0001CD (base 16) ARtem
Olgastraße 152

DE

58-A8-7B (hex) Fitbit, Inc.
58A87B (base 16) Fitbit, Inc.
199 Fremont Street, 14th Fl
San Francisco CA 94105
US

C4-89-ED (hex) Solid Optics EU N.V.
C489ED (base 16) Solid Optics EU N.V.
De Huchtstraat 35
Almere Flevoland 1327 EC
NL

48-8F-5A (hex) Routerboard.com
488F5A (base 16) Routerboard.com
Mikrotikls SIA
Riga Riga LV1009
LV

10-06-45 (hex) Sagemcom Broadband SAS
100645 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

A0-27-B6 (hex) Samsung Electronics Co.,Ltd
A027B6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

10-39-17 (hex) Samsung Electronics Co.,Ltd
103917 (base 16) Samsung Electronics
Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

98-80-EE (hex) Samsung Electronics Co.,Ltd
9880EE (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

90-EE-C7 (hex) Samsung Electronics Co.,Ltd
90EEC7 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

10-29-AB (hex) Samsung Electronics Co.,Ltd
1029AB (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

18-4E-CB (hex) Samsung Electronics Co.,Ltd
184ECB (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

80-22-A7 (hex) NEC Platforms, Ltd.
8022A7 (base 16) NEC Platforms, Ltd.
2-3 Kandatsukasamachi
Chiyodaku Tokyo 101-8532
JP

5C-23-16 (hex) Squirrels Research Labs LLC
5C2316 (base 16) Squirrels Research Labs LLC
8050 Freedom Ave NW Suite B
North Canton OH 44720
US

AC-67-B2
(hex) Espressif Inc.
AC67B2 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

98-59-49 (hex) LUXOTTICA GROUP S.P.A.
985949 (base 16) LUXOTTICA GROUP S.P.A.
Piazzale Cadrona, 3
Milano MI 20132
IT

64-E1-72 (hex) Shenzhen Qihoo Intelligent Technology Co.,Ltd
64E172 (base 16) Shenzhen Qihoo Intelligent Technology Co.,Ltd
Room 201,Block A.No.1,Qianwan Road1 Qianhai Shenzhen-HONGKONG Cooperation Zone
Shenzhen Guangdong 5181000
CN

C4-D8-F3 (hex) iZotope
C4D8F3 (base 16) iZotope
60 Hampshire St
Cambridge MA 02139
US

A8-40-25 (hex) Oxide Computer Company
A84025 (base 16) Oxide Computer Company
1251 Park Avenue
Emeryville CA 94608
US

64-E8-81 (hex) Aruba, a Hewlett Packard Enterprise Company
64E881 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

60-F4-3A
(hex) Edifier International
60F43A (base 16) Edifier International
Suit 2207, 22nd floor, Tower II, Lippo centre, 89 Queensway

Hong Kong 070
CN

FC-B6-98 (hex) Cambridge Industries(Group) Co.,Ltd.
FCB698 (base 16) Cambridge Industries(Group) Co.,Ltd.
22 Floor,Qilai Tower;889 Yishan Road
Shanghai CHINA 200233
CN

04-21-44 (hex) Sunitec Enterprise Co.,Ltd
042144 (base 16) Sunitec Enterprise Co.,Ltd
3F.,No.98-1,Mincyuan Rd.Sindian City
Taipei County 231 231141
CN

4C-33-29 (hex) Sweroam
4C3329 (base 16) Sweroam
Stortorget 16
Orebro N/A 70211
SE

78-2B-46 (hex) Intel Corporate
782B46 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

78-57-73 (hex) HUAWEI TECHNOLOGIES CO.,LTD
785773 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

AC-60-89 (hex) HUAWEI TECHNOLOGIES
CO.,LTD
AC6089 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

84-3E-92 (hex) HUAWEI TECHNOLOGIES CO.,LTD
843E92 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

70-8C-B6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
708CB6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

50-46-4A (hex) HUAWEI TECHNOLOGIES CO.,LTD
50464A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-A4-02 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C4A402 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

68-33-2C (hex) KENSTEL NETWORKS LIMITED
68332C (base 16) KENSTEL NETWORKS
LIMITED
34D SECTOR 57 HSIIDC INDUSTRIAL AREA PHASE 4
KUNDLI HARYANA 131028
IN

9C-BD-6E (hex) DERA Co., Ltd
9CBD6E (base 16) DERA Co., Ltd
Zhichun road NO7 Building B Room1203 Haidian District
Beijing 100191
CN

9C-28-BF (hex) Continental Automotive Czech Republic s.r.o.
9C28BF (base 16) Continental Automotive Czech Republic s.r.o.
Prmyslová 1851
Brandýs nad Labem 250 01
CZ

00-06-B3 (hex) Diagraph Corporation
0006B3 (base 16) Diagraph Corporation
3401 Rider Trail South
Earth City MO 63045-1110
US

D8-78-7F (hex) Ubee Interactive Co., Limited
D8787F (base 16) Ubee Interactive Co., Limited
Flat/RM 1202, 12/F, AT Tower, 180 Electric Road
North Point 00000
HK

DC-33-3D (hex) Huawei Device Co., Ltd.

DC333D (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

28-54-71 (hex) Huawei Device Co., Ltd.
285471
(base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

B8-8E-82 (hex) Huawei Device Co., Ltd.
B88E82 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

34-E5-EC (hex) Palo Alto Networks
34E5EC (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

08-87-C6 (hex) INGRAM MICRO SERVICES
0887C6 (base 16) INGRAM MICRO SERVICES
100 CHEMIN DE BAILLOT
MONTAUBAN 82000
FR

D4-D2-D6 (hex) FN-LINK TECHNOLOGY LIMITED
D4D2D6 (base 16) FN-LINK TECHNOLOGY LIMITED
A Building,HuiXin industial park,No 31, YongHe road, Fuyong town, Bao'an District
SHENZHEN GUANGDONG 518100
CN

10-50-72 (hex) Sercomm Corporation.
105072 (base 16) Sercomm Corporation.
3F,No.81,Yu-Yih Rd.,Chu-Nan Chen
Miao-Lih Hsuan 115
TW

98-FA-A7 (hex) INNONET
98FAA7 (base 16) INNONET
C-417,
Munjeong Hyundai Knowledge Industry Center, Beobwon-ro 11-gil-7
Songpa-gu Seoul 05836
KR

08-6B-D1 (hex) Shenzhen SuperElectron Technology Co.,Ltd.
086BD1 (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

90-5D-7C (hex) New H3C Technologies Co., Ltd
905D7C (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

3C-B5-3D (hex) HUNAN GOKE MICROELECTRONICS CO.,LTD
3CB53D (base 16) HUNAN GOKE MICROELECTRONICS CO.,LTD
No.9, East 10th Road(South), Xingsha, Changsha
Changsha HUNAN 410131
CN

AC-3A-67 (hex) Cisco Systems, Inc
AC3A67 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-B7-A8 (hex) Heinzinger electronic GmbH
00B7A8 (base 16) Heinzinger electronic GmbH
Anton Jakob
Str.4
Rosenheim BY 83026
DE

34-CF-F6 (hex) Intel Corporate
34CFF6 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B8-E3-B1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B8E3B1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

98-0D-51 (hex) Huawei Device Co., Ltd.
980D51 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808

CN

00-AD-D5 (hex) Huawei Device Co., Ltd.
00ADD5 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

EC-79-49 (hex) FUJITSU LIMITED
EC7949 (base 16) FUJITSU LIMITED
403, Kosugi-cho 1-chome, Nakahara-ku
Kawasaki Kanagawa 211-0063
JP

AC-4A-67 (hex) Cisco Systems, Inc
AC4A67 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

90-0A-84
(hex) Mellanox Technologies, Inc.
900A84 (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

70-CA-97 (hex) Ruckus Wireless
70CA97 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

34-51-80 (hex) TCL King Electrical Appliances (Huizhou) Co., Ltd
345180 (base 16) TCL King Electrical Appliances (Huizhou) Co., Ltd
10F, TCL Multimedia Building, TCL International E City, No.1001 Zhongshanyuan Rd., Nanshan District
Shenzhen Guangdong 518052
CN

6C-D9-4C (hex) vivo Mobile Communication Co., Ltd.
6CD94C (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

AC-1E-D0 (hex) Temic Automotive Philippines Inc.
AC1ED0 (base 16) Temic Automotive Philippines Inc.
Bagsakan Road, FTI estate

Taguig 1630
PH

00-88-BA (hex) NC&C
0088BA (base 16) NC&C
Gurogu
Seoul
08390
KR

4C-A6-4D (hex) Cisco Systems, Inc
4CA64D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

40-2B-69 (hex) Kumho Electric Inc.
402B69 (base 16) Kumho Electric Inc.
309, Bongmu-ro, Namsa-myeon, Cheoin-gu
Yongin-si Gyeonggi-do 17118
KR

A4-08-01 (hex) Amazon Technologies Inc.
A40801 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

A8-A0-97 (hex) ScioTeq bvba
A8A097 (base 16) ScioTeq bvba
President Kennedypark 35A
Kortrijk 8500
BE

F4-73-35 (hex) Logitech Far East
F47335 (base 16) Logitech Far East
#2 Creation Rd. 4,
Hsinchu 300
TW

90-AD-FC (hex) Telechips, Inc.
90ADFC (base 16) Telechips, Inc.
19F~23F,Luther Bldg.42, Olympic-ro 35da-gil, Songpa-gu,
Seoul Seoul 05510
KR

BC-16-95 (hex) zte corporation
BC1695 (base 16) zte corporation

12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen
guangdong 518057
CN

A4-CF-D2 (hex) Ubee Interactive Co., Limited
A4CFD2 (base 16) Ubee Interactive Co., Limited
Flat/RM 1202, 12/F, AT Tower, 180 Electric Road
North Point 00000
HK

E8-E9-8E (hex) SOLAR controls s.r.o.
E8E98E (base 16) SOLAR controls s.r.o.
Brojova 25
Plzen 32600
CZ

64-F6-BB (hex) Fibocom Wireless Inc.
64F6BB (base 16) Fibocom Wireless Inc.
5/F,TowerA,Technology Building 2,1057 Nanhai Blvd, Nanshan
Shenzhen 518000 Guangdong
CN

5C-A6-2D (hex) Cisco Systems, Inc
5CA62D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

EC-97-B2 (hex) SUMEC Machinery & Electric Co.,Ltd.
EC97B2 (base 16) SUMEC Machinery & Electric Co.,Ltd.
198# ChangJiang Road, XuanWu District, 17F, SUMEC Building
Nanjing JiangSu 210018
CN

28-FA-7A (hex) Zhejiang Tmall Technology Co., Ltd.
28FA7A (base 16) Zhejiang Tmall Technology Co., Ltd.
Ali
Center,No.3331 Keyuan South RD (Shenzhen bay), Nanshan District, Shenzhen Guangdong province
Shenzhen GuangDong 518000
CN

10-05-E1 (hex) Nokia
1005E1 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

BC-54-2F (hex) Intel Corporate
BC542F (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

84-2E-14 (hex) Silicon Laboratories
842E14 (base 16) Silicon Laboratories
7000 W. William Cannon Dr.
Austin TX 78735
US

00-20-E1 (hex) ALAMAR ELECTRONICS
0020E1 (base 16) ALAMAR ELECTRONICS
489 DIVISION STREET
CAMPBELL CA 95008
US

08-F4-58 (hex) Huawei Device Co., Ltd.
08F458 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

34-37-94 (hex) Hamee Corp.
343794 (base 16) Hamee Corp.
Square O2 2-12-10 Sakae-cho
Odawara Kanagawa 250-0011
JP

5C-BA-2C (hex) Hewlett Packard Enterprise
5CBA2C
(base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

D4-DC-09 (hex) Mist Systems, Inc.
D4DC09 (base 16) Mist Systems, Inc.
1601 South De Anza Blvd, Suite 248
Cupertino CA 95014
US

44-10-FE (hex) Huizhou Foryou General Electronics Co., Ltd.
4410FE (base 16) Huizhou Foryou General Electronics Co., Ltd.
North Shangxia Road, Dongjiang Hi-tech Industry Park
Huizhou Guangdong 516000
CN

EC-31-6D (hex) Hansgrohe
EC316D (base 16) Hansgrohe
Auestraße 5-9
Schiltach 77761
DE

CC-7F-75 (hex) Cisco Systems, Inc
CC7F75 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

20-E8-74 (hex) Apple, Inc.
20E874 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D0-3F-AA (hex) Apple, Inc.
D03FAA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

7C-AB-60 (hex) Apple, Inc.
7CAB60
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

44-C6-5D (hex) Apple, Inc.
44C65D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

40-EC-99 (hex) Intel Corporate
40EC99 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

F4-A4-D6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F4A4D6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

18-7E-B9 (hex) Apple, Inc.
187EB9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

1C-97-C5 (hex) Ynomia Pty Ltd
1C97C5 (base 16) Ynomia Pty Ltd
153 Tooronga Rd
Glen Iris 3146
AU

5C-C1-D7 (hex) Samsung Electronics Co.,Ltd
5CC1D7 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

38-01-46 (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
380146 (base
16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268? Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

2C-57-41 (hex) Cisco Systems, Inc
2C5741 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

B0-B3-53 (hex) IEEE Registration Authority
B0B353 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

48-4E-FC (hex) ARRIS Group, Inc.
484EFC (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

1C-91-9D (hex) Dongguan Liesheng Electronic Co., Ltd.
1C919D (base 16) Dongguan Liesheng Electronic Co., Ltd.
F5, Building B, North Block, Gaosheng Tech Park, No. 84 Zhongli Road, Nancheng District, Dongguan Ci

dongguan guangdong 523000
CN

20-11-4E (hex) MeteRSit S.R.L.
20114E (base 16) MeteRSit S.R.L.
Viale dell'Industria 31
Padova 35129
IT

FC-F2-9F (hex) China Mobile
Iot Limited company
FCF29F (base 16) China Mobile Iot Limited company
No. 8 Yangliu North Road, Yubei District, Chongqing, China
Chong Qing Chong Qing 401120
CN

F8-1F-32 (hex) Motorola Mobility LLC, a Lenovo Company
F81F32 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

A8-7E-EA (hex) Intel Corporate
A87EEA (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B0-0A-D5 (hex) zte corporation
B00AD5 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

A8-4D-4A (hex) Audiowise Technology Inc.
A84D4A (base 16) Audiowise Technology Inc.
2F, No 1-1, Innovation RD I, Hsinchu Science Park
Hsincu Taiwan 30076
TW

74-B6-B6 (hex) eero inc.
74B6B6 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

7C-DF-A1 (hex) Espressif Inc.
7CDFA1

(base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

98-00-6A (hex) zte corporation
98006A (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

78-94-E8 (hex) Radio Bridge
7894E8 (base 16) Radio Bridge
8601 73rd Ave N, Suite 38
Brooklyn Park MN 55428
US

54-7F-BC (hex) iodyne
547FBC (base 16) iodyne
35 Miller Ave #175
Mill Valley CA 94941
US

FC-E1-4F (hex) BRK Brands, Inc.
FCE14F (base 16) BRK Brands, Inc.
3901 Liberty Street
Aurora IL 60504
US

88-96-55 (hex) Zitte corporation
889655 (base 16) Zitte corporation
4F Yokohama Kusunoki-cho Building,4-7 Kusunoki-cho,Nishi-ku
Yokohama Kanagawa 2200003
JP

18-30-0C (hex) Hisense Electric Co.,Ltd
18300C (base 16) Hisense Electric Co.,Ltd
Qianwangang Roard 218
Qingdao Shandong 266510
CN

44-A5-6E
(hex) NETGEAR
44A56E (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

5C-27-D4 (hex) Shenzhen Qihu Intelligent Technology Company Limited
5C27D4 (base 16) Shenzhen Qihu Intelligent Technology Company Limited
Room 201, Block A, No.1, Qianwan Road 1,Qianhai Shenzhen HongKong Modern Service Industry Cooperation Zone
Shenzhen Guangdong 518057
CN

74-D8-3E (hex) Intel Corporate
74D83E (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

88-B6-EE (hex) Dish Technologies Corp
88B6EE (base 16) Dish Technologies Corp
94 Inverness Terrace E
Englewood CO 80112
US

3C-28-A6 (hex) Alcatel-Lucent Enterprise (China)
3C28A6 (base 16) Alcatel-Lucent Enterprise (China)
2/F, Building 1, No.60 Naxian Road,Pudong
Shanghai Shanghai 201210
CN

50-50-A4 (hex) Samsung Electronics Co.,Ltd
5050A4 (base 16) Samsung Electronics Co.,Ltd
#94-1,
Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

08-F8-BC (hex) Apple, Inc.
08F8BC (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

90-A2-5B (hex) Apple, Inc.
90A25B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

88-A4-79 (hex) Apple, Inc.
88A479 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

04-72-95 (hex) Apple, Inc.
047295 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D4-46-E1 (hex) Apple, Inc.
D446E1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

14-14-59 (hex) Vodafone Italia S.p.A.
141459 (base 16) Vodafone Italia S.p.A.
Via Lorenteggio nr. 240
Milan Italy 20147
IT

50-43-B9 (hex) OktoInform RUS
5043B9 (base 16) OktoInform RUS
Bolshoy Tishinskiy pereulok, d. 26, korp.13-14, ofis 4R
Moscow 123557
RU

88-54-1F (hex) Google, Inc.
88541F (base 16) Google,
Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

90-0C-C8 (hex) Google, Inc.
900CC8 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

00-10-4F (hex) Oracle Corporation
00104F (base 16) Oracle Corporation
500 Oracle Parkway
Redwood Shores CA 94065
US

08-D2-3E (hex) Intel Corporate
08D23E (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3

Kulim Kedah 09000
MY

48-7B-5E (hex) SMT TELECOMM HK
487B5E (base 16) SMT TELECOMM HK
Unit C 8/F Charmhill Centre 50 Hillwood RD.
Tsim Sha Tsui Kowloon 999077
HK

00-25-A9 (hex) Shanghai Embedway Information Technologies Co.,Ltd
0025A9 (base 16) Shanghai Embedway Information Technologies Co.,Ltd
2F,Building 9,Lujiazui Software Park, No.20,Lane 91,E'Shan Road
Shanghai 200127
CN

68-21-5F (hex) Edgecore Networks Corporation
68215F (base 16) Edgecore Networks Corporation
1 Creation
RD 3.
Hsinchu 30077
TW

3C-BF-60 (hex) Apple, Inc.
3CBF60 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-15-F4 (hex) Apple, Inc.
AC15F4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

78-D1-62 (hex) Apple, Inc.
78D162 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

44-C7-FC (hex) Huawei Device Co., Ltd.
44C7FC (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

78-85-F4 (hex) Huawei Device Co., Ltd.
7885F4 (base 16) Huawei Device Co., Ltd.

No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

80-86-D9 (hex) Samsung Electronics Co.,Ltd
8086D9 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

38-6A-77 (hex) Samsung Electronics Co.,Ltd
386A77 (base 16) Samsung Electronics Co.,Ltd
#94-1,
Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-B8-10 (hex) Yichip Microelectronics (Hangzhou) Co.,Ltd
00B810 (base 16) Yichip Microelectronics (Hangzhou) Co.,Ltd
Room 401, Building 15, No.498 Guoshoujing Road, Pudong Software Park
Shanghai 200120
CN

A4-B2-39 (hex) Cisco Systems, Inc
A4B239 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

54-8D-5A (hex) Intel Corporate
548D5A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

F4-49-55 (hex) MIMO TECH Co., Ltd.
F44955 (base 16) MIMO TECH Co., Ltd.
21F.-6, No. 7, Sec. 3, New Taipei Blvd., Xinzhuang Dist.,
New Taipei City Taiwan 24250
TW

08-09-C7 (hex) Zhuhai Unitech Power Technology Co., Ltd.
0809C7 (base 16) Zhuhai Unitech Power Technology Co., Ltd.
102, Yinhua Road
Zhuhai Guangdong 519000
CN

58-96-1D (hex) Intel Corporate

58961D (base 16) Intel Corporate
Lot 8, Jalan
Hi-Tech 2/3
Kulim Kedah 09000
MY

68-AF-FF (hex) Shanghai Cambricon Information Technology Co., Ltd.
68AFFF (base 16) Shanghai Cambricon Information Technology Co., Ltd.
888 West Huanhu Road No.2, Nanhui New Town, Pudong New Area
Shanghai Shanghai 200000
CN

D0-1C-3C (hex) TECNO MOBILE LIMITED
D01C3C (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

04-1D-C7 (hex) zte corporation
041DC7 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

00-1A-4D (hex) GIGA-BYTE TECHNOLOGY CO.,LTD.
001A4D (base 16) GIGA-BYTE TECHNOLOGY CO.,LTD.
Pin-Jen City, Taoyuan, Taiwan, R.O.C.
Pin-Jen Taoyuan 324
TW

00-1F-D0 (hex) GIGA-BYTE TECHNOLOGY CO.,LTD.
001FD0 (base 16) GIGA-BYTE TECHNOLOGY CO.,LTD.
Pin-Jen
City, Taoyuan, Taiwan, R.O.C.
Pin-Jen Taoyuan 324
TW

B8-9A-2A (hex) Intel Corporate
B89A2A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

DC-21-E2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
DC21E2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

FC-1B-D1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
FC1BD1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

58-25-75 (hex) HUAWEI TECHNOLOGIES CO.,LTD
582575 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

28-DE-E5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
28DEE5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

18-C0-4D (hex) GIGA-BYTE TECHNOLOGY
CO.,LTD.
18C04D (base 16) GIGA-BYTE TECHNOLOGY CO.,LTD.
Pin-Jen City, Taoyuan, Taiwan, R.O.C.
Pin-Jen Taoyuan 324
TW

40-2C-76 (hex) IEEE Registration Authority
402C76 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

80-C9-55 (hex) Redpine Signals, Inc.
80C955 (base 16) Redpine Signals, Inc.
Plot 87, Sagar Society
Hyderabad AP 500034
IN

5C-68-D0 (hex) Aurora Innovation Inc.
5C68D0 (base 16) Aurora Innovation Inc.
1880 Embarcadero Rd.
Palo Alto CA 94303
US

10-36-4A (hex) Boston Dynamics
10364A (base 16) Boston Dynamics
78 4TH AVE

Waltham MA 02451
US

8C-AA-B5 (hex) Espressif Inc.
8CAAB5 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

00-0B-CC (hex) JUSAN, S.A.
000BCC (base 16) JUSAN, S.A.
Vivero, 5
MADRID 28040
ES

00-E0-59 (hex) CONTROLLED ENVIRONMENTS,
LTD.
00E059 (base 16) CONTROLLED ENVIRONMENTS, LTD.
590 BERRY STREET
WINNEPEG R3H OR9
CA

0C-8E-29 (hex) Arcadyan Corporation
0C8E29 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

A0-22-4E (hex) IEEE Registration Authority
A0224E (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

C4-98-78 (hex) SHANGHAI MOAAN INTELLIGENT TECHNOLOGY CO.,LTD
C49878 (base 16) SHANGHAI MOAAN INTELLIGENT TECHNOLOGY CO.,LTD
BLOCK B, 4TH FLOOR, BUILDING 2, NO. 401 CAOBAO ROAD, XUHUI DISTRICT, SHANGHAI
SHANGHAI 200030
CN

00-0A-23 (hex) Parama Networks Inc
000A23 (base 16) Parama Networks Inc
1955 The Alameda
San Jose CA 95126
US

38-43-E5 (hex) Grotech Inc
3843E5 (base 16) Grotech Inc

19, Ojeongongeop-gil
Uiwang-si Gyeonggi-do 16072
KR

6C-63-9C (hex) ARRIS Group, Inc.
6C639C (base 16) ARRIS Group, Inc.
6450
Sequence Drive
San Diego CA 92121
US

6C-06-D6 (hex) Huawei Device Co., Ltd.
6C06D6 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

18-E7-77 (hex) vivo Mobile Communication Co., Ltd.
18E777 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

0C-7A-15 (hex) Intel Corporate
0C7A15 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

94-D6-DB (hex) NexFi
94D6DB (base 16) NexFi
Room 417, Building 14, No. 498, Guoshoujing Road, Pudong New Area
Shanghai 201203
CN

78-B4-6A (hex) HUAWEI TECHNOLOGIES CO.,LTD
78B46A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

6C-EB-B6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
6CEBB6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin
Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

4C-F5-5B (hex) HUAWEI TECHNOLOGIES CO.,LTD
4CF55B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

64-31-39 (hex) IEEE Registration Authority
643139 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

A4-4B-D5 (hex) Xiaomi Communications Co Ltd
A44BD5 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

14-87-6A (hex) Apple, Inc.
14876A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E0-B5-5F (hex) Apple, Inc.
E0B55F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F8-FF-C2 (hex) Apple, Inc.
F8FFC2 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E0-EB-40 (hex) Apple,
Inc.
E0EB40 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

40-77-A9 (hex) New H3C Technologies Co., Ltd
4077A9 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

64-69-4E (hex) Texas Instruments
64694E (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

F8-33-31 (hex) Texas Instruments
F83331 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

40-A6-B7 (hex) Intel Corporate
40A6B7 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B4-EC-F2 (hex) Shanghai Listent Medical Tech Co., Ltd.
B4ECF2 (base 16) Shanghai Listent Medical Tech Co., Ltd.
No. 668 Qingdai Road Pudong District
Shanghai Shanghai 201318
CN

C4-95-4D (hex) IEEE Registration Authority
C4954D (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

64-95-6C
(hex) LG Electronics
64956C (base 16) LG Electronics
222 LG-ro, JINWI-MYEON
Pyeongtaek-si Gyeonggi-do 451-713
KR

E8-3F-67 (hex) Huawei Device Co., Ltd.
E83F67 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

34-46-EC (hex) Huawei Device Co., Ltd.
3446EC (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808

CN

1C-BF-C0 (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
1CBFC0 (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

34-49-5B (hex) Sagemcom Broadband SAS
34495B (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

80-16-09 (hex) Sleep Number
801609 (base 16) Sleep Number
1001 Third Avenue South
Minneapolis
MN 55404
US

AC-8B-9C (hex) Primera Technology, Inc.
AC8B9C (base 16) Primera Technology, Inc.
2 Carlson Parkway N, Ste 375
Plymouth MN 55447
US

1C-C1-BC (hex) Yichip Microelectronics (Hangzhou) Co.,Ltd
1CC1BC (base 16) Yichip Microelectronics (Hangzhou) Co.,Ltd
Room 401, Building 15, No.498 Guoshoujing Road, Pudong Software Park
Shanghai 200120
CN

2C-3A-FD (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
2C3AFD (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

AC-61-B9 (hex) WAMA Technology Limited
AC61B9 (base 16) WAMA Technology Limited
Room 2205, Westley Square, 48 Hoi Yuen Road, Kwun Tong, Kowloon
Hong Kong 00000
HK

F8-55-CD (hex) Visteon Corporation
F855CD (base 16) Visteon Corporation
One Village Center Drive

Van Buren Twp MI 48111
US

44-18-47 (hex) HUNAN SCROWN ELECTRONIC INFORMATION
TECH.CO.,LTD
441847 (base 16) HUNAN SCROWN ELECTRONIC INFORMATION TECH.CO.,LTD
Building No.4,Changsha Zhongdian Software Park No.39,Jianshan Road
Changsha Hunan 410006
CN

00-30-B7 (hex) Teletrol Systems, Inc.
0030B7 (base 16) Teletrol Systems, Inc.
Technology Center
Manchester NH 03101
US

C8-F3-19 (hex) LG Electronics (Mobile Communications)
C8F319 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

00-90-96 (hex) ASKEY COMPUTER CORP
009096 (base 16) ASKEY COMPUTER CORP
2F, NO. 2, LANE 497
TAIPEI 23136 12345
TW

24-74-F7 (hex) GoPro
2474F7 (base 16) GoPro
3000 Clearview Way
San Mateo CA 94402
US

7C-D5-66 (hex) Amazon Technologies Inc.
7CD566 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

68-63-50 (hex) Hella India Automotive Pvt Ltd
686350 (base 16) Hella India Automotive Pvt
Ltd
Unit no 201A to 201B Nano Space Surveyno.5/1B/2 BanerBaner Pashan Link road
Pune Maharastra 411045
IN

18-70-3B (hex) Huawei Device Co., Ltd.

18703B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

44-22-95 (hex) China Mobile Iot Limited company
442295 (base 16) China Mobile Iot Limited company
No. 8 Yangliu North Road, Yubei District, Chongqing, China
Chong Qing Chong Qing 401120
CN

E8-5A-8B (hex) Xiaomi Communications Co Ltd
E85A8B (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

80-75-1F (hex) SKY UK LIMITED
80751F (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

D8-9E-61 (hex) Huawei Device Co., Ltd.
D89E61 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong
523808
CN

34-7E-00 (hex) Huawei Device Co., Ltd.
347E00 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

5C-E5-0C (hex) Beijing Xiaomi Mobile Software Co., Ltd
5CE50C (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

5C-71-0D (hex) Cisco Systems, Inc
5C710D (base 16) Cisco Systems, Inc
80 West Tasman Dr.
San Jose CA 94568
US

98-AF-65 (hex) Intel Corporate
98AF65 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

F8-89-3C (hex) Inventec Appliances Corp.
F8893C (base 16) Inventec Appliances Corp.
37 Wugong 5th road, New Taipei Industrial Park,
New Taipei City Wugu District 24890
TW

74-9E-F5 (hex) Samsung Electronics Co.,Ltd
749EF5 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi
Gyeongbuk 730-350
KR

68-BF-C4 (hex) Samsung Electronics Co.,Ltd
68BFC4 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B8-2A-DC (hex) EFR Europäische Funk-Rundsteuerung GmbH
B82ADC (base 16) EFR Europäische Funk-Rundsteuerung GmbH
Nymphenburger Straße 20b
Munich 80335
DE

00-AB-48 (hex) eero inc.
00AB48 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

A0-DF-15 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A0DF15 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-AD-34 (hex) Routerboard.com
C4AD34 (base 16) Routerboard.com
Mikrotikls SIA
Riga Riga LV1009
LV

00-07-33 (hex) DANCONTROL Engineering
000733 (base 16) DANCONTROL Engineering
Italiensvej 1-5

DK

A8-5E-45 (hex) ASUSTek COMPUTER INC.
A85E45 (base 16) ASUSTek COMPUTER
INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

64-C9-01 (hex) INVENTEC Corporation
64C901 (base 16) INVENTEC Corporation
No.66, Hougang St., Shilin Dist., Taipei City 111, Taiwan (R.O.C.)
Taipei 111
TW

B4-39-39 (hex) Shenzhen TINNO Mobile Technology Corp.
B43939 (base 16) Shenzhen TINNO Mobile Technology Corp.
Building, No.33, Xiandong Rd, Xili
Nanshan District, Shenzhen PRC 518053
CN

5C-CD-5B (hex) Intel Corporate
5CCD5B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

84-C8-07 (hex) ADVA Optical Networking Ltd.
84C807 (base 16) ADVA Optical Networking Ltd.
ADVAntage House
York YO30 4RY
GB

10-B3-C6 (hex) Cisco Systems, Inc
10B3C6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

10-B3-D6 (hex) Cisco Systems, Inc
10B3D6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San

Jose CA 94568
US

A0-AB-51 (hex) WEIFANG GOERTEK ELECTRONICS CO.,LTD
A0AB51 (base 16) WEIFANG GOERTEK ELECTRONICS CO.,LTD
Gaoxin 2 Road, Free Trade Zone,Weifang,Shandong,261205,P.R.China
Weifang Shandong 261205
CN

04-B1-A1 (hex) Samsung Electronics Co.,Ltd
04B1A1 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

CC-46-4E (hex) Samsung Electronics Co.,Ltd
CC464E (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

30-6F-07 (hex) Nations Technologies Inc.
306F07 (base 16) Nations Technologies Inc.
18F, Nations Tower, Nanshan District
Shenzhen 518057
CN

3C-89-4D (hex) Dr. Ing. h.c. F. Porsche AG
3C894D (base 16) Dr. Ing. h.c. F. Porsche AG
Porscheplatz 1
Stuttgart 70435
DE

F8-54-B8 (hex) Amazon Technologies Inc.
F854B8 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

78-17-35
(hex) Nokia Shanghai Bell Co., Ltd.
781735 (base 16) Nokia Shanghai Bell Co., Ltd.
No.388 Ning Qiao Road,Jin Qiao Pudong Shanghai
Shanghai 201206
CN

9C-FF-C2 (hex) AVI Systems GmbH
9CFFC2 (base 16) AVI Systems GmbH

Dr. Franz Wilhelmstraße 2A
Krems a. d. Donau 3500
AT

44-D8-78 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
44D878 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

78-97-C3 (hex) DINGXIN INFORMATION TECHNOLOGY CO.,LTD
7897C3 (base 16) DINGXIN INFORMATION TECHNOLOGY CO.,LTD
No.6 huasui Road,ZhuJiang Xincheng
Guangzhou Guangdong 510623
CN

F4-D6-20 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
F4D620 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

94-90-34 (hex) SHENZHEN CHUANGWEI-RGB ELECTRONICS
CO.,LTD
949034 (base 16) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
Unit East Block22-24/F,Skyworth semiconductor design Bldg., Gaoxin Ave.4.S.,Nanshan District,Shenzhen,China
SHENZHEN GUANGDONG 518057
CN

3C-8F-06 (hex) Shenzhen Libtor Technology Co.,Ltd
3C8F06 (base 16) Shenzhen Libtor Technology Co.,Ltd
Room 608, Building A
Shenzhen City Guangdong Province 518000
CN

98-7A-10 (hex) Ericsson AB
987A10 (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

20-26-81 (hex) TECNO MOBILE LIMITED
202681 (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

A0-D8-07 (hex) Huawei Device Co., Ltd.
A0D807 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

2C-78-0E (hex) Huawei Device Co., Ltd.
2C780E
(base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

34-B2-0A (hex) Huawei Device Co., Ltd.
34B20A (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

98-F4-AB (hex) Espressif Inc.
98F4AB (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

D8-BF-C0 (hex) Espressif Inc.
D8BFC0 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

B0-08-75 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B00875 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

64-FB-92 (hex) PPC Broadband Inc.
64FB92 (base 16) PPC Broadband Inc.
6176 E Molloy Rd
East Syracuse NY 13057
US

14-13-46 (hex) Skyworth Digital Technology(Shenzhen)
Co.,Ltd
141346 (base 16) Skyworth Digital Technology(Shenzhen) Co.,Ltd
7F,Block A,Skyworth Building,
Shenzhen Guangdong 518057

CN

54-2B-DE (hex) New H3C Technologies Co., Ltd
542BDE (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

98-F7-81 (hex) ARRIS Group, Inc.
98F781 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

4C-90-DB (hex) JL Audio
4C90DB (base 16) JL Audio
10369 N Commerce Pkwy
Mirimar FL 33025
US

8C-F1-12 (hex) Motorola Mobility LLC, a Lenovo Company
8CF112 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

B8-99-AE (hex) Shenzhen MiaoMing Intelligent Technology Co.,Ltd
B899AE (base 16) Shenzhen MiaoMing Intelligent Technology Co.,Ltd
Chudong science and technology park, 111 shaxin road, tangxia town,
dongguan
city guangdong province 523710
CN

E8-D0-B9 (hex) Taicang T&W Electronics
E8D0B9 (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

58-85-A2 (hex) Realme Chongqing MobileTelecommunications Corp Ltd
5885A2 (base 16) Realme Chongqing MobileTelecommunications Corp Ltd
No.24 Nichang Boulevard, Huixing Block, Yubei District, Chongqing.
Chongqing China 401120
CN

A8-C0-EA (hex) Pepwave Limited
A8C0EA (base 16) Pepwave Limited
A5, 5/F, HK Spinners Industrial Building, Phase 6, 481 Castle Peak Road

Cheung Sha Wan Hong Kong 0
HK

44-AE-AB (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
44AEAB (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

A4-F0-5E (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
A4F05E (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG
GUAN GUANG DONG 523860
CN

00-07-1C (hex) AT&T
00071C (base 16) AT&T
3300 E Renner Road
Richardson TX 75082
US

84-76-37 (hex) HUAWEI TECHNOLOGIES CO.,LTD
847637 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

FC-94-35 (hex) HUAWEI TECHNOLOGIES CO.,LTD
FC9435 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E0-24-81 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E02481 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

2C-F8-9B (hex) Cisco Systems, Inc
2CF89B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

80-B0-7B (hex) zte corporation
80B07B (base 16) zte corporation

12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen
guangdong 518057
CN

C8-5A-9F (hex) zte corporation
C85A9F (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

50-02-91 (hex) Espressif Inc.
500291 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

00-1D-DF (hex) Sunitec Enterprise Co.,Ltd
001DDF (base 16) Sunitec Enterprise Co.,Ltd
3F., No. 98-1, Mincyuan Rd.
Sindian City Taipei County 231
TW

8C-0F-FA (hex) Hutec co.,ltd
8C0FFA (base 16) Hutec co.,ltd
46, Gunpocheomdansaneop 2-ro
Gunpo-si Gyeonggi-do 15880
KR

AC-FE-05 (hex) ITEL MOBILE LIMITED
ACFE05 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

BC-C3-1B (hex) Kygo Life A
BCC31B (base 16) Kygo Life A
Sjolyst Plass 3
Oslo 0278
NO

64-DF-10
(hex) JingLue Semiconductor(SH) Ltd.
64DF10 (base 16) JingLue Semiconductor(SH) Ltd.
No.800 Naxian Rd
Shanghai 201210
CN

10-01-77 (hex) HUAWEI TECHNOLOGIES CO.,LTD
100177 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

44-A1-91 (hex) HUAWEI TECHNOLOGIES CO.,LTD
44A191 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

24-52-6A (hex) Zhejiang Dahua Technology Co., Ltd.
24526A (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

20-DF-B9 (hex) Google, Inc.
20DFB9 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

5C-CA-D3 (hex) CHIPSEA TECHNOLOGIES (SHENZHEN) CORP.
5CCAD3 (base 16) CHIPSEA TECHNOLOGIES (SHENZHEN) CORP.
9F,BLOCK A,GARDEN CITY DIGITAL BUILDING,NO.1079
NANHAI ROAD,NANSHAN DISTRICT
SHEN ZHEN GUANG DONG 518000
CN

78-2A-79 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
782A79 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

78-65-59 (hex) Sagemcom Broadband SAS
786559 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

50-D2-F5 (hex) Beijing Xiaomi Mobile Software Co., Ltd
50D2F5 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

1C-68-7E (hex) Shenzhen Qihu Intelligent Technology Company Limited
1C687E (base 16) Shenzhen Qihu Intelligent Technology Company Limited
Room 201, Block A, No.1, Qianwan Road 1,Qianhai Shenzhen HongKong Modern Service Industry Cooperation Zone
Shenzhen Guangdong 518057
CN

C0-36-56
(hex) Fiberhome Telecommunication Technologies Co.,LTD
C03656 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

B0-3E-51 (hex) SKY UK LIMITED
B03E51 (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

28-16-7F (hex) Xiaomi Communications Co Ltd
28167F (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

08-71-90 (hex) Intel Corporate
087190 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

5C-E8-83 (hex) HUAWEI TECHNOLOGIES CO.,LTD
5CE883 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

60-23-A4 (hex) Sichuan AI-Link Technology Co., Ltd.
6023A4 (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou,Industrial Park
Anzhou,Industrial
Park Sichuan 621000
CN

A4-53-0E (hex) Cisco Systems, Inc
A4530E (base 16) Cisco Systems, Inc

80 West Tasman Drive
San Jose CA 94568
US

00-40-3A (hex) IMPACT TECHNOLOGIES
00403A (base 16) IMPACT TECHNOLOGIES
6 RUE DE L'ACADIE

FR

C8-B1-CD (hex) Apple, Inc.
C8B1CD (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

14-60-CB (hex) Apple, Inc.
1460CB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B8-F1-2A (hex) Apple, Inc.
B8F12A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F8-87-F1 (hex) Apple, Inc.
F887F1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

60-44-7A (hex) Water-i.d. GmbH
60447A (base 16) Water-i.d. GmbH
Daimlerstr. 20
Eggenstein 76344
DE

80-72-15 (hex) SKY UK LIMITED
807215 (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

74-D6-37

(hex) Amazon Technologies Inc.
74D637 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

74-84-E1 (hex) Dongguan Haoyuan Electronics Co.,Ltd
7484E1 (base 16) Dongguan Haoyuan Electronics Co.,Ltd
NO.161 Kejizhong RoadLiuwu Shijie Town
Dongguan Guangdong 523290
CN

40-74-E0 (hex) Intel Corporate
4074E0 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D0-5F-64 (hex) IEEE Registration Authority
D05F64 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

44-FB-5A (hex) zte corporation
44FB5A (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

C4-63-FB (hex) Neatframe AS
C463FB (base 16) Neatframe AS
Martin Linges Vei 25
Fornebu Fornebu 1364
NO

30-57-14 (hex) Apple, Inc.
305714 (base 16) Apple, Inc.
1 Infinite
Loop
Cupertino CA 95014
US

04-A2-22 (hex) Arcadyan Corporation
04A222 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

04-AB-6A (hex) Chun-il Co.,Ltd.
04AB6A (base 16) Chun-il Co.,Ltd.
13-7, Gimhae-daero 2694 beon-gil,
Gimhae-si Gyeongsangnam-do 50936
KR

00-35-FF (hex) Texas Instruments
0035FF (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

DC-54-D7 (hex) Amazon Technologies Inc.
DC54D7 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

28-FE-65 (hex) DongGuan Siyoto Electronics Co., Ltd
28FE65 (base 16) DongGuan Siyoto Electronics Co., Ltd
Hecheng Industrial District, QiaoTou Town
DongGuan City Guangdong 523520
CN

18-06-F5 (hex) RAD Data Communications, Ltd.
1806F5 (base 16) RAD Data Communications, Ltd.
24 Raoul Wallenberg St.
Tel Aviv 69719
IL

88-9F-AA
(hex) Hella Gutmann Solutions GmbH
889FAA (base 16) Hella Gutmann Solutions GmbH
Am Krebsbach 2
Ihringen Baden Württemberg 79241
DE

04-C8-07 (hex) Xiaomi Communications Co Ltd
04C807 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

44-59-E3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
4459E3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

68-3F-1E (hex) EFFECT Photonics B.V.
683F1E (base 16) EFFECT Photonics B.V.
Kastanjelaan 400
Eindhoven Noord-Brabant 5616 LZ
NL

44-D3-CA (hex) Cisco Systems, Inc
44D3CA (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

84-0B-7C (hex) Hitron Technologies. Inc
840B7C (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan,
R.O.C
Hsin-chu Taiwan 300
TW

48-A7-3C (hex) Sichuan tianyi kanghe communications co., LTD
48A73C (base 16) Sichuan tianyi kanghe communications co., LTD
No.198, section 1, xueshan avenue, jinyuan town, dayi county
chengdu sichuan 611330
CN

F8-A7-63 (hex) Zhejiang Tmall Technology Co., Ltd.
F8A763 (base 16) Zhejiang Tmall Technology Co., Ltd.
Ali Center,No.3331 Keyuan South RD (Shenzhen bay), Nanshan District, Shenzhen Guangdong province
Shenzhen GuangDong 518000
CN

A4-98-13 (hex) ARRIS Group, Inc.
A49813 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

6C-29-90 (hex) WiZ Connected Lighting Company Limited
6C2990 (base 16) WiZ Connected Lighting Company Limited
Room 3805, 148 Electric Road
Hong Kong 0000 0000
HK

98-35-ED (hex) HUAWEI TECHNOLOGIES CO.,LTD
9835ED (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology

Park
Dongguan 523808
CN

80-76-93 (hex) Newag SA
807693 (base 16) Newag SA
Wyspianskiego 3
Nowy Sacz woj. Malopolskie 33-300
PL

BC-97-40 (hex) IEEE Registration Authority
BC9740 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

08-4F-0A (hex) HUAWEI TECHNOLOGIES CO.,LTD
084F0A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-49-4D (hex) HUAWEI TECHNOLOGIES CO.,LTD
A8494D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

44-00-4D (hex) HUAWEI TECHNOLOGIES CO.,LTD
44004D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

20-96-8A (hex) China Mobile (Hangzhou) Information Technology Co., Ltd.
20968A (base 16) China Mobile (Hangzhou)
Information Technology Co., Ltd.
No. 1600 Yuhangtang Road, Wuchang Street, Yuhang District
Hangzhou Zhejiang 310000
CN

8C-18-50 (hex) China Mobile (Hangzhou) Information Technology Co., Ltd.
8C1850 (base 16) China Mobile (Hangzhou) Information Technology Co., Ltd.
No. 1600 Yuhangtang Road, Wuchang Street, Yuhang District
Hangzhou Hangzhou 310000
CN

D8-D4-E6 (hex) Hytec Inter Co., Ltd.

D8D4E6 (base 16) Hytec Inter Co., Ltd.
3-28-6 Yoyogi
Shibuya-ku Tokyo 1510053
JP

F8-E7-A0 (hex) vivo Mobile Communication Co., Ltd.
F8E7A0 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

2C-FF-EE (hex) vivo Mobile Communication Co., Ltd.
2CFFEE (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

C8-5D-38 (hex) HUMAX Co., Ltd.
C85D38 (base 16) HUMAX Co., Ltd.
HUMAX
Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

18-CF-24 (hex) HUAWEI TECHNOLOGIES CO.,LTD
18CF24 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

50-F8-A5 (hex) eWBM Co., Ltd.
50F8A5 (base 16) eWBM Co., Ltd.
14F, 9, Teheran-ro 20-gil
Gangnam-gu, Seoul 06236
KR

D8-9B-3B (hex) HUAWEI TECHNOLOGIES CO.,LTD
D89B3B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

88-40-3B (hex) HUAWEI TECHNOLOGIES CO.,LTD
88403B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

FC-87-43 (hex) HUAWEI TECHNOLOGIES CO.,LTD
FC8743 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-88-5F (hex) HUAWEI
TECHNOLOGIES CO.,LTD
04885F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C8-50-CE (hex) HUAWEI TECHNOLOGIES CO.,LTD
C850CE (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-0B-E4 (hex) Hosiden Corporation
000BE4 (base 16) Hosiden Corporation
4-33
Yao-city Osaka 581-0071
JP

44-13-D0 (hex) zte corporation
4413D0 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

24-62-AB (hex) Espressif Inc.
2462AB (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

14-49-BC (hex) DrayTek Corp.
1449BC (base 16) DrayTek Corp.
No. 26, Fushing Rd., Hukou, Hsinchu Industrial Park,
Hsinchu county 30352
TW

20-F4-78 (hex) Xiaomi
Communications Co Ltd
20F478 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085

CN

74-38-B7 (hex) CANON INC.
7438B7 (base 16) CANON INC.
30-2 Shimomaruko 3-chome
Ohta-ku Tokyo 146-8501
JP

90-73-5A (hex) Motorola Mobility LLC, a Lenovo Company
90735A (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

00-04-DF (hex) TERACOM TELEMATICA S.A
0004DF (base 16) TERACOM TELEMATICA S.A
RUA AMERICA N.1000
Eldorado do Sul - RS Brazil
BR

18-B6-F7 (hex) NEW POS TECHNOLOGY LIMITED
18B6F7 (base 16) NEW POS TECHNOLOGY LIMITED
AB Unit, 14th Floor,Block A, Financial Technology Building.No. 11 Keyuan Rd
Shenzhen 518057
CN

1C-82-59 (hex) IEEE Registration Authority
1C8259 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway
NJ 08554
US

00-FA-21 (hex) Samsung Electronics Co.,Ltd
00FA21 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

7C-23-02 (hex) Samsung Electronics Co.,Ltd
7C2302 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

6C-AB-05 (hex) Cisco Systems, Inc
6CAB05 (base 16) Cisco Systems, Inc
80 West Tasman Drive

San Jose CA 94568
US

5C-B1-5F (hex) Oceanblue Cloud Technology Limited
5CB15F (base 16) Oceanblue Cloud Technology Limited
253-261 Hennessy Road
Hong Kong Hong Kong 999077
HK

48-5D-EB (hex) Just Add Power
485DEB (base 16) Just Add Power
12505 STARKEY RD STE A
LARGO FL 33773
US

50-13-95 (hex) Sichuan AI-Link Technology Co., Ltd.
501395 (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou,Industrial Park
Anzhou,Industrial Park Sichuan 621000
CN

18-D9-EF (hex) Shuttle Inc.
18D9EF
(base 16) Shuttle Inc.
No. 30 Lane 76, Rei Kuang Rd
Taipei 114
TW

88-DA-33 (hex) Beijing Xiaoyuer Network Technology Co., Ltd
88DA33 (base 16) Beijing Xiaoyuer Network Technology Co., Ltd
Block K1, North American International Business Centre, 86 Beiyuan Road, Chaoyang District
Beijing Beijing 100012
CN

84-C7-8F (hex) APS Networks GmbH
84C78F (base 16) APS Networks GmbH
Rosenwiesstr. 17
Stuttgart 70567
DE

C0-9F-E1 (hex) zte corporation
C09FE1 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

18-AA-CA (hex) Sichuan tianyi kanghe communications co., LTD
18AACA (base 16) Sichuan tianyi kanghe communications co., LTD

No.198, section 1, xueshan avenue, jinyuan town, dayi county, sichuan province
chengdu sichuan 611330
CN

60-D2-48 (hex) ARRIS Group, Inc.
60D248 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San
Diego CA 92121
US

D4-9D-C0 (hex) Samsung Electronics Co.,Ltd
D49DC0 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

D0-19-6A (hex) Ciena Corporation
D0196A (base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

84-FD-D1 (hex) Intel Corporate
84FDD1 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B0-70-0D (hex) Nokia
B0700D (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

00-21-75 (hex) Pacific Satellite International Ltd.
002175 (base 16) Pacific Satellite International Ltd.
20/F Tai Tung Building,
Wanchai 100000
HK

34-6B-5B (hex) New H3C Technologies Co., Ltd
346B5B (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

84-E8-92 (hex) Actiontec Electronics, Inc

84E892 (base 16) Actiontec
Electronics, Inc
301 Olcott St
Santa Clara CA 95054
US

78-E2-BD (hex) Vodafone Automotive S.p.A.
78E2BD (base 16) Vodafone Automotive S.p.A.
via Astico 41
Varese Italy/VA 21100
IT

F8-48-FD (hex) China Mobile Group Device Co.,Ltd.
F848FD (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

50-41-B9 (hex) I-O DATA DEVICE,INC.
5041B9 (base 16) I-O DATA DEVICE,INC.
3-10,Sakurada-machi
Kanazawa Ishikawa 920-8512
JP

80-DA-BC (hex) Megafone Limited
80DABC (base 16) Megafone Limited
Unit 702,7/F,Bankok Bank Building,NO.18 Bonham Strand West
Hong Kong 999077
HK

20-DA-22 (hex) HUAWEI TECHNOLOGIES CO.,LTD
20DA22 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

18-46-44 (hex) Home Control Singapore Pte Ltd
184644 (base 16) Home Control Singapore
Pte Ltd
151 Lorong Chuan
Singapore 556741
SG

C8-21-DA (hex) Shenzhen YOUHUA Technology Co., Ltd
C821DA (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

20-65-8E (hex) HUAWEI TECHNOLOGIES CO.,LTD
20658E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

18-3D-5E (hex) HUAWEI TECHNOLOGIES CO.,LTD
183D5E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

88-97-46 (hex) Sichuan AI-Link Technology Co., Ltd.
889746 (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou,Industrial Park
Anzhou,Industrial Park Sichuan 621000
CN

1C-DE-57 (hex) Fiberhome Telecommunication Technologies Co.,LTD
1CDE57 (base 16) Fiberhome Telecommunication
Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

E0-DC-FF (hex) Xiaomi Communications Co Ltd
E0DCFF (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

00-77-8D (hex) Cisco Systems, Inc
00778D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0E-8C (hex) Siemens AG
000E8C (base 16) Siemens AG
Siemensstraße 10
Regensburg 93055
DE

00-87-64 (hex) Cisco Systems, Inc
008764 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568

US

84-6F-CE (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
846FCE (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

B0-E7-1D (hex) Shanghai Maigantech Co.,Ltd
B0E71D (base 16) Shanghai Maigantech Co.,Ltd
Room 2211,No.88
Caoxi North Rd,Xuhui District
Shanghai Shanghai 200030
CN

C4-68-D0 (hex) VTech Telecommunications Ltd.
C468D0 (base 16) VTech Telecommunications Ltd.
23/F, Tai Ping Industrial Centre, Block 1,
HONG KONG NA 000000
HK

14-AE-DB (hex) VTech Telecommunications Ltd.
14AEDB (base 16) VTech Telecommunications Ltd.
23/F, Tai Ping Industrial Centre, Block 1,
HONG KONG NA 000000
HK

78-DB-2F (hex) Texas Instruments
78DB2F (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

E0-B6-55 (hex) Beijing Xiaomi Electronics Co., Ltd.
E0B655 (base 16) Beijing Xiaomi Electronics Co., Ltd.
Building C, QingHe ShunShiJiaYe Technology Park, #66 ZhuFang Rd, HaiDian District
Beijing Beijing 10085
CN

8C-0F-A0 (hex) di-soric GmbH & Co. KG
8C0FA0 (base 16) di-soric GmbH & Co. KG
Steinbeisstrasse 6
Urbach 73660
DE

F8-BB-BF (hex) eero inc.
F8BBBF (base 16) eero inc.
500 Howard

St Suite 900
San Francisco CA 94105
US

DC-FB-48 (hex) Intel Corporate
DCFB48 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

DC-71-37 (hex) zte corporation
DC7137 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

84-7C-9B (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
847C9B (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

34-41-A8 (hex) ER-Telecom
3441A8 (base 16) ER-Telecom
Ovchinnikovskaya embankment, 20, Building 1
Moscow 115324
RU

34-DB-9C (hex) Sagemcom Broadband SAS
34DB9C (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

74-40-BE (hex) LG Innotek
7440BE (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu
506-731
KR

A4-CF-12 (hex) Espressif Inc.
A4CF12 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

FC-B6-62 (hex) IC Holdings LLC

FCB662 (base 16) IC Holdings LLC
1277 Windmill Ln.
Midway UT 84049
US

04-D4-C4 (hex) ASUSTek COMPUTER INC.
04D4C4 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

A0-51-0B (hex) Intel Corporate
A0510B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

74-88-BB (hex) Cisco Systems, Inc
7488BB (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A8-E2-C3 (hex) Shenzhen YOUHUA Technology Co., Ltd
A8E2C3 (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

90-20-C2
(hex) Aruba, a Hewlett Packard Enterprise Company
9020C2 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

0C-A0-6C (hex) Industrial Cyber Sensing Inc.
0CA06C (base 16) Industrial Cyber Sensing Inc.
Unit 1A - 343 Montrose Street North
Cambridge Ontario N3H 2H6
CA

FC-D2-B6 (hex) IEEE Registration Authority
FCD2B6 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

80-4A-14 (hex) Apple, Inc.
804A14 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

70-3C-69 (hex) Apple, Inc.
703C69 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-2D-A9 (hex) TECNO MOBILE LIMITED
AC2DA9 (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

40-A9-3F (hex) Pivotal Commware, Inc.
40A93F (base 16) Pivotal Commware, Inc.
1555 132nd Ave. NE
Bellevue WA 98005
US

4C-6A-F6 (hex) HMD Global Oy
4C6AF6 (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

48-9D-D1 (hex) Samsung Electronics Co.,Ltd
489DD1 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C0-8C-71 (hex) Motorola Mobility LLC, a Lenovo Company
C08C71 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

48-04-9F (hex) ELECOM CO., LTD
48049F (base 16) ELECOM CO., LTD
9FLand Axis Tower.1-1 fushimi machi,4-chome chuoku
osaka 5418765

JP

08-7F-98 (hex) vivo Mobile Communication Co., Ltd.
087F98 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

C8-52-61 (hex) ARRIS Group, Inc.
C85261 (base 16) ARRIS
Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

C0-41-21 (hex) Nokia Solutions and Networks GmbH & Co. KG
C04121 (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

F4-6F-4E (hex) Echowell
F46F4E (base 16) Echowell
7F-8, No. 8, Sec 1, JunShing Rd.
New Taipei City 24872
TW

B0-6F-E0 (hex) Samsung Electronics Co.,Ltd
B06FE0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

44-B9-94 (hex) Douglas Lighting Controls
44B994 (base 16) Douglas Lighting Controls
280 - 3605 Gilmore Way
Burnaby BC V5G4X5
CA

24-79-F8 (hex) KUPSON spol. s r.o.
2479F8 (base 16) KUPSON spol. s r.o.
Hradecka 787/14
Opava Czech Republic 74601
CZ

70-BF-92 (hex) GN Audio A/S
70BF92 (base 16) GN Audio A/S
Lautrupbjerg 7

Ballerup DK-2750
DK

AC-BB-61 (hex) YSTen Technology Co.,Ltd
ACBB61
(base 16) YSTen Technology Co.,Ltd
Room 1715,17/F North Star Times Tower,Chaoyang District,Beijing.
Beijing 100101
CN

34-20-03 (hex) Shenzhen Feitengyun Technology Co.,LTD
342003 (base 16) Shenzhen Feitengyun Technology Co.,LTD
7F 4building,Yalianhaoshida industrial Park
Shenzhen Guangdong 518100
CN

7C-FD-82 (hex) GUANGDONG GENIUS TECHNOLOGY CO., LTD.
7CFD82 (base 16) GUANGDONG GENIUS TECHNOLOGY CO., LTD.
No.168, Middle Road Of East Gate
Xiaobian Community Chang'an Town 523851
CN

00-2F-5C (hex) Cisco Systems, Inc
002F5C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F4-64-5D (hex) Toshiba
F4645D (base 16) Toshiba
2-9,Suehiro-Cho
Ome Tokyo 1988710
JP

F0-7D-68 (hex) D-Link Corporation
F07D68 (base 16) D-Link Corporation
No.289, Sinhu 3rd Rd., Neihu District,
Taipei City 114
TW

EC-41-18 (hex) XIAOMI Electronics,CO.,LTD
EC4118
(base 16) XIAOMI Electronics,CO.,LTD
Xiaomi Building, No.68 Qinghe Middle Street
Haidian District Beijing 100085
CN

D8-86-0B (hex) IEEE Registration Authority

D8860B (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

08-EC-F5 (hex) Cisco Systems, Inc
08ECF5 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

D0-76-50 (hex) IEEE Registration Authority
D07650 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

60-D0-A9 (hex) Samsung Electronics Co.,Ltd
60D0A9 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

88-CE-FA (hex) HUAWEI TECHNOLOGIES CO.,LTD
88CEFA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-27-06 (hex) YOISYS
002706 (base 16) YOISYS
309-52 SUNGSU-2GA, 1DONG, SUNGDONG-GU
SEOUL
133-827
KR

04-2D-B4 (hex) First Property (Beijing) Co., Ltd Modern MOMA Branch
042DB4 (base 16) First Property (Beijing) Co., Ltd Modern MOMA Branch
Room 301ABuilding No.10, No.1 Xiangheyuan Road, Dongcheng District, Beijing City
Beijing Beijing 100028
CN

38-F8-5E (hex) HUMAX Co., Ltd.
38F85E (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

00-CB-51 (hex) Sagemcom Broadband SAS
00CB51 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

C4-64-B7 (hex) Fiberhome Telecommunication Technologies Co.,LTD
C464B7 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

04-E0-B0 (hex) Shenzhen YOUHUA Technology Co., Ltd
04E0B0 (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan
Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

40-E3-D6 (hex) Aruba, a Hewlett Packard Enterprise Company
40E3D6 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

B4-5D-50 (hex) Aruba, a Hewlett Packard Enterprise Company
B45D50 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

AC-A3-1E (hex) Aruba, a Hewlett Packard Enterprise Company
ACA31E (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

38-B1-9E (hex) IEEE Registration Authority
38B19E (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

38-E2-6E (hex) ShenZhen Sweet Rain Electronics Co.,Ltd.
38E26E (base 16) ShenZhen Sweet Rain Electronics Co.,Ltd.
Xinghua Road
Shenzhen Bao'an 518101
CN

70-C9-C6 (hex) Cisco Systems, Inc
70C9C6
(base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

68-9A-87 (hex) Amazon Technologies Inc.
689A87 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

64-AE-88 (hex) Polytec GmbH
64AE88 (base 16) Polytec GmbH
Polytec Platz 1-7
Waldbronn BW 76337
DE

00-D0-50 (hex) Iskratel d.o.o.
00D050 (base 16) Iskratel d.o.o.
Ljubljanska cesta 24a
Kranj 4000
SI

78-DA-A2 (hex) Cynosure Technologies Co.,Ltd
78DAA2 (base 16) Cynosure Technologies Co.,Ltd
Room 2708/2710, Building No.9A, Shenzhen Bay Science and Technology Ecological ParkNanshan
Shenzhen city Guangdong Province 518057
CN

80-84-A9 (hex) oshkosh Corporation
8084A9 (base 16) oshkosh Corporation
2307 Oregon Street
Oshkosh WI 54902
US

18-0D-2C (hex) Intelbras
180D2C (base 16) Intelbras
BR 101, km 210, S/N°
São José Santa Catarina 88104800
BR

98-DA-C4 (hex) TP-LINK
TECHNOLOGIES CO.,LTD.
98DAC4 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan

Shenzhen Guangdong 518057
CN

00-17-7B (hex) Azalea Networks inc
00177B (base 16) Azalea Networks inc
673 S Milpitas Blvd
Milpitas CA 95035
US

50-2B-98 (hex) Es-tech International
502B98 (base 16) Es-tech International
228-70, Saneop-ro 155beon-gil, Gwonseon-gu, Suwon-si, Gyeonggi-do, Korea
Suwon 16648
KR

C8-28-32 (hex) Beijing Xiaomi Electronics Co., Ltd.
C82832 (base 16) Beijing Xiaomi Electronics Co., Ltd.
Building C, QingHe ShunShiJiaYe Technology Park, #66 ZhuFang Rd, HaiDian District
Beijing Beijing 10085
CN

70-1B-FB (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
701BFB (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

04-76-6E
(hex) ALPSALPINE CO,.LTD
04766E (base 16) ALPSALPINE CO,.LTD
6-3-36 Furukawanakazato,
Osaki Miyagi-pref 989-6181
JP

AC-7A-4D (hex) ALPSALPINE CO,.LTD
AC7A4D (base 16) ALPSALPINE CO,.LTD
6-1
KAKUDA-CITY MIYAGI-PREF 981-1595
JP

38-C0-96 (hex) ALPSALPINE CO,.LTD
38C096 (base 16) ALPSALPINE CO,.LTD
6-1
KAKUDA-CITY MIYAGI-PREF 981-1595
JP

C4-34-6B (hex) Hewlett Packard
C4346B (base 16) Hewlett Packard

11445 Compaq Center Drive
Houston 77070
US

48-F1-7F (hex) Intel Corporate
48F17F (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-26-43 (hex) ALPSALPINE CO,.LTD
002643 (base 16) ALPSALPINE CO,.LTD
1-2-1, Okinouchi,
Soma-city, Fukushima-pref., 976-8501
JP

00-4E-35 (hex) Hewlett Packard Enterprise
004E35 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

1C-34-77 (hex) Innovation
Wireless
1C3477 (base 16) Innovation Wireless
11869 Teale Street
Culver City CA 90230
US

4C-C7-D6 (hex) FLEXTRONICS MANUFACTURING(ZHUHAI)CO.,LTD.
4CC7D6 (base 16) FLEXTRONICS MANUFACTURING(ZHUHAI)CO.,LTD.
Xin Qing Science & Technology Industrial Park,Jin An Town,Doumen ,Zhuhai,Guangdong,PRC
Zhuhai Guangdong 519180
CN

C8-08-73 (hex) Ruckus Wireless
C80873 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

00-16-97 (hex) NEC Corporation
001697 (base 16) NEC Corporation
7-1, Shiba 5-chome Minato-ku,
tokyo Tokyo 108-8001
JP

00-30-13 (hex) NEC Corporation

003013 (base 16) NEC Corporation
1-10 Nisshincho, Fuchu
Tokyo 183-8501 0000
JP

BC-3E-07 (hex) Hitron Technologies. Inc
BC3E07 (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

48-FD-A3 (hex) Xiaomi
Communications Co Ltd
48FDA3 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

28-80-88 (hex) NETGEAR
288088 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

90-86-9B (hex) zte corporation
90869B (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

E0-18-9F (hex) EM Microelectronic
E0189F (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

F8-13-08 (hex) Nokia
F81308 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

F8-A2-D6 (hex) Liteon Technology Corporation
F8A2D6 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

04-9D-FE (hex) Hivesystem
049DFE (base 16) Hivesystem
816 Kranz-techno Bldg. 388 dunchondaero,
jun
Gyeonggi-do KSXX0024
KR

D0-51-57 (hex) LEAX Arkivator Telecom
D05157 (base 16) LEAX Arkivator Telecom
NanShan District YueHaiMen Street
ShenZhen GuangDong 518061
CN

FC-BE-7B (hex) vivo Mobile Communication Co., Ltd.
FCBE7B (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

B4-0F-B3 (hex) vivo Mobile Communication Co., Ltd.
B40FB3 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

EC-5C-68 (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
EC5C68 (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

94-58-CB (hex) Nintendo Co.,Ltd
9458CB (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

74-36-6D (hex) Vodafone Italia
S.p.A.
74366D (base 16) Vodafone Italia S.p.A.
Via Lorenteggio nr. 240
Milan Italy 20147
IT

18-2A-44 (hex) HIROSE ELECTRONIC SYSTEM
182A44 (base 16) HIROSE ELECTRONIC SYSTEM
1-9-6 Ebisuminami
Shibuya Tokyo 150-0022

JP

FC-94-CE (hex) zte corporation
FC94CE (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

0C-EC-84 (hex) Shenzhen TINNO Mobile Technology Corp.
0CEC84 (base 16) Shenzhen TINNO Mobile Technology Corp.
Building, No.33, Xiandong Rd, Xili
Nanshan District, Shenzhen PRC 518053
CN

9C-DB-07 (hex) Yellowtec GmbH
9CDB07 (base 16) Yellowtec GmbH
Heinrich-Hertz-Strasse 1-3
Monheim am Rhein NRW 40789
DE

28-EC-9A (hex) Texas Instruments
28EC9A (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

C4-E5-06 (hex) Piper Networks, Inc.
C4E506 (base 16) Piper Networks, Inc.
3636
Nobel Drive
San Diego CA 92122
US

0C-D0-F8 (hex) Cisco Systems, Inc
0CD0F8 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

DC-DA-80 (hex) New H3C Technologies Co., Ltd
DCDA80 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

B8-25-9A (hex) Thalmic Labs
B8259A (base 16) Thalmic Labs
24 Charles Street West

Kitchener Ontario N2G 1H2
CA

30-EB-5A (hex) LANDIS + GYR
30EB5A (base 16) LANDIS + GYR
78th km Old National Road Athens-Corinth
Corinth 20100
GR

F8-0F-6F (hex) Cisco Systems, Inc
F80F6F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-80-E3 (hex) CORAL NETWORK CORPORATION
0080E3 (base 16) CORAL NETWORK CORPORATION
(NOW BAY NETWORKS)
SANTA CLARA CA 95052-8185
US

D8-F2-CA (hex) Intel Corporate
D8F2CA (base 16) Intel Corporate
Lot
8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B4-C6-2E (hex) Molex CMS
B4C62E (base 16) Molex CMS
2222 Wellington Court
Lisle IL 60532
US

28-25-36 (hex) SHENZHEN HOLATEK CO.,LTD
282536 (base 16) SHENZHEN HOLATEK CO.,LTD
Rm.1001,Unit 4,Bld.B,Kexing Science Park,Keyuan Road, Nanshan District
Shenzhen Guangdong 518000
CN

B8-A1-75 (hex) Roku, Inc.
B8A175 (base 16) Roku, Inc.
12980 Saratoga Ave
Saratoga CA 95070
US

CC-D3-C1 (hex) Vestel Elektronik San ve Tic. A.S.
CCD3C1 (base 16) Vestel Elektronik San ve Tic. A.S.

Organize san
Manisa Turket 45030
TR

A4-26-55 (hex) LTI Motion (Shanghai) Co., Ltd.
A42655 (base 16) LTI Motion (Shanghai) Co., Ltd.
NO.80, Lane 2927, LaiYang Road Pudong New District
Shanghai Shanghai 200137
CN

60-A7-30 (hex) Shenzhen Yipinfang Internet Technology Co.,Ltd
60A730 (base 16) Shenzhen Yipinfang Internet Technology Co.,Ltd
Shenzhen
Konka R & D Building, 28th floor 21
GuangDong Nanshan District 518000
CN

3C-9B-D6 (hex) Vizio, Inc
3C9BD6 (base 16) Vizio, Inc
39 Tesla
Irvine CA 92618
US

50-DB-3F (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
50DB3F (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT
SONGGANG
SHENZHEN GUANGDONG 518105
CN

10-81-B4 (hex) Hunan Greatwall Galaxy Science and Technology Co.,Ltd.
1081B4 (base 16) Hunan Greatwall Galaxy Science and Technology Co.,Ltd.
No. 39, Jian Shan Road
Changsha Hunan 410205
CN

38-81-D7 (hex) Texas Instruments
3881D7 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

18-04-ED (hex) Texas Instruments
1804ED (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

D4-32-60 (hex) GoPro

D43260 (base 16) GoPro
3000 Clearview Way
San Mateo CA 94402
US

F4-DD-9E (hex) GoPro
F4DD9E (base 16) GoPro
3000 Clearview
Way
San Mateo CA 94402
US

D4-D9-19 (hex) GoPro
D4D919 (base 16) GoPro
3000 Clearview Way
San Mateo CA 94402
US

CC-72-86 (hex) Xi'an Fengyu Information Technology Co., Ltd.
CC7286 (base 16) Xi'an Fengyu Information Technology Co., Ltd.
5F, Block A, STRC, No.10, Zhangba 5th Road, Yanta
Xi'an Shaanxi 710077
CN

6C-A9-28 (hex) HMD Global Oy
6CA928 (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

00-D8-61 (hex) Micro-Star INTL CO., LTD.
00D861 (base 16) Micro-Star INTL CO., LTD.
No.69, Lide St.,
New Taipei City Taiwan 235
TW

74-C1-7D (hex) Infinix mobility limited
74C17D (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

88-71-B1 (hex) ARRIS Group, Inc.
8871B1 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

F0-AF-85
(hex) ARRIS Group, Inc.
F0AF85 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

FC-AE-34 (hex) ARRIS Group, Inc.
FCAE34 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

14-11-14 (hex) TECNO MOBILE LIMITED
141114 (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

00-B8-B3 (hex) Cisco Systems, Inc
00B8B3 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

74-5F-90 (hex) LAM Technologies
745F90 (base 16) LAM Technologies
Viale Ludovico Ariosto, 492/D
Sesto Fiorentino FIRENZE 50019
IT

F8-5B-9C (hex) SB SYSTEMS Co.,Ltd
F85B9C (base 16) SB SYSTEMS Co.,Ltd
2F Ventureforum, 323, Pangyo-ro, Bundang-gu
Seongnam-si Gyeonngi-do 453-400
KR

00-42-79 (hex) Sunitec Enterprise Co.,Ltd
004279 (base 16) Sunitec Enterprise Co.,Ltd
3F.,No.98-1,Mincyuan Rd.Sindian City
Taipei County 231 231141
CN

A4-50-46 (hex) Xiaomi Communications Co Ltd
A45046 (base 16) Xiaomi Communications Co Ltd

The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

F8-50-1C (hex) Tianjin Geneuo Technology Co.,Ltd
F8501C (base 16) Tianjin Geneuo Technology Co.,Ltd
Technology Avenue South JingHai Economic Development Area,Tianjin China
Tianjin 301609
CN

70-D3-13 (hex) HUAWEI TECHNOLOGIES CO.,LTD
70D313 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

9C-1D-36 (hex) HUAWEI TECHNOLOGIES CO.,LTD
9C1D36 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

CC-BB-FE (hex) HUAWEI TECHNOLOGIES CO.,LTD
CCBBFE
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

44-07-0B (hex) Google, Inc.
44070B (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

EC-F6-BD (hex) SNCF MOBILITÉS
ECF6BD (base 16) SNCF MOBILITÉS
9 rue Jean-Philippe Rameau
SAINT-DENIS 93200
FR

B8-31-B5 (hex) Microsoft Corporation
B831B5 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

00-7C-2D (hex) Samsung Electronics Co.,Ltd

007C2D (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

38-B4-D3 (hex) BSH Hausgeraete GmbH
38B4D3 (base 16) BSH Hausgeraete GmbH
Im Gewerbepark B10
Regensburg 93059
DE

C8-47-82 (hex) Areson Technology Corp.
C84782 (base 16) Areson Technology Corp.
11F., No. 646, Sec. 5, Chongxin Rd., Sanchong District
New
Taipei City 24158
TW

E8-93-63 (hex) Nokia
E89363 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

7C-0C-F6 (hex) Guangdong Huiwei High-tech Co., Ltd.
7C0CF6 (base 16) Guangdong Huiwei High-tech Co., Ltd.
E Block No. 1 in Ecological Area in Puzhai NewArea
Fengshun County, Meizhou Guangdong province 514000
CN

20-AD-56 (hex) Continental Automotive Systems Inc.
20AD56 (base 16) Continental Automotive Systems Inc.
21440 W. Lake Cook Rd.
Deer Park IL 60010
US

50-29-F5 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
5029F5 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

30-0A-60 (hex) IEEE Registration Authority
300A60 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

80-D0-65 (hex) CKS Corporation
80D065 (base 16) CKS Corporation
1-24-11 Akebono
Tachikawa
Tokyo 190-0012
JP

00-D6-FE (hex) Cisco Systems, Inc
00D6FE (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

0C-BF-74 (hex) Morse Micro
0CBF74 (base 16) Morse Micro
113 / 2-4 Cornwallis Street
Eveleigh NSW 2015
AU

B4-1D-2B (hex) Shenzhen YOUHUA Technology Co., Ltd
B41D2B (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

14-C2-13 (hex) Apple, Inc.
14C213 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

FC-8F-7D (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
FC8F7D (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT
SONGGANG
SHENZHEN GUANGDONG 518105
CN

24-BE-18 (hex) DADOUTEK COMPANY LIMITED
24BE18 (base 16) DADOUTEK COMPANY LIMITED
14/F, Wilson Logistics Centre,No.24-28 Kung Yip St
Kwai Chung New Territories
000
CN

74-9D-79 (hex) Sercomm Corporation.
749D79 (base 16) Sercomm Corporation.
3F,No.81,Yu-Yih Rd.,Chu-Nan Chen
Miao-Lih Hsuan 115

TW

A4-D9-31 (hex) Apple, Inc.
A4D931 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

BC-FE-D9 (hex) Apple, Inc.
BCFED9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

80-82-23 (hex) Apple, Inc.
808223 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

CC-08-FB (hex) TP-LINK TECHNOLOGIES CO.,LTD.
CC08FB (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

BC-AF-91 (hex) TE Connectivity Sensor Solutions
BCAF91 (base 16) TE Connectivity Sensor Solutions
4 rue Gaye-Marie, CS 83163
Toulouse 31027
FR

28-31-66 (hex) vivo Mobile Communication Co., Ltd.
283166
(base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

C0-40-04 (hex) Medicaroid Corporation
C04004 (base 16) Medicaroid Corporation
1-6-4, Minatojima-minamimachi, Chuo-ku
Kobe 650-0047
JP

A4-ED-43 (hex) IEEE Registration Authority
A4ED43 (base 16) IEEE Registration Authority
445 Hoes Lane

Piscataway NJ 08554
US

94-29-8D (hex) Shanghai AdaptComm Technology Co., Ltd.
94298D (base 16) Shanghai AdaptComm Technology Co., Ltd.
3rd Floor, Building 14, No. 518 Xinzhuan Road, Songjiang District,
Shanghai 201600
CN

00-AA-6E (hex) Cisco Systems, Inc
00AA6E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F0-D7-DC (hex) Wesine (Wuhan) Technology Co., Ltd.
F0D7DC (base 16) Wesine (Wuhan) Technology Co., Ltd.
10th Floor, Building 2, SBI Venture Street, Hongshan District
Wuhan Hubei 430074
CN

00-72-04
(hex) Samsung Electronics Co., Ltd. ARTIK
007204 (base 16) Samsung Electronics Co., Ltd. ARTIK
1-1, Samsungjeonja-ro
Hwaseong-si Gyeonggi-do 18448
KR

40-C8-1F (hex) Shenzhen Xinguodu Technology Co., Ltd.
40C81F (base 16) Shenzhen Xinguodu Technology Co., Ltd.
F17A, JinSong Building, Tairan Industrial & Trade Park, Chegongmiao, Shennan RoadFutian District
Shenzhen Guangdong 518040
CN

0C-7C-28 (hex) Nokia Solutions and Networks GmbH & Co. KG
0C7C28 (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

68-43-D7 (hex) Agilecom Photonics Solutions Guangdong Limited
6843D7 (base 16) Agilecom Photonics Solutions Guangdong Limited
No.1-6, Shenwan Industrial Park, Shenwan Town
Zhongshan Guangdong 528462
CN

B8-6A-97 (hex) Edgecore Networks Corporation
B86A97 (base 16) Edgecore Networks Corporation

1 Creation RD 3.
Hsinchu 30077
TW

A8-10-87
(hex) Texas Instruments
A81087 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

8C-61-A3 (hex) ARRIS Group, Inc.
8C61A3 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

8C-8F-8B (hex) China Mobile Chongqing branch
8C8F8B (base 16) China Mobile Chongqing branch
6 building, No. 2, Xingguang three road
Yubei District Chongqing 401120
CN

14-59-C0 (hex) NETGEAR
1459C0 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

00-04-0B (hex) 3COM EUROPE LTD
00040B (base 16) 3COM EUROPE LTD
BOUNDARY WAY
vvvvv UNITED KINGDOM
GB

C8-C2-F5 (hex) FLEXTRONICS MANUFACTURING(ZHUHAI)CO.,LTD.
C8C2F5 (base 16) FLEXTRONICS MANUFACTURING(ZHUHAI)CO.,LTD.
Xin Qing Science & Technology Industrial Park,Jin An Town,Doumen ,Zhuhai,Guangdong,PRC
Zhuhai Guangdong 519180
CN

F0-58-49 (hex) CareView Communications
F05849
(base 16) CareView Communications
405 State HWY 121 BYP
Lewisville Texas 75067
US

8C-FE-74 (hex) Ruckus Wireless
8CFE74 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

60-4B-AA (hex) Magic Leap, Inc.
604BAA (base 16) Magic Leap, Inc.
1855 Griffin Rd, Room B454
Dania Beach FL 33004
US

4C-01-43 (hex) eero inc.
4C0143 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

E4-34-93 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E43493 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

34-29-12 (hex) HUAWEI TECHNOLOGIES CO.,LTD
342912 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

48-A4-72 (hex) Intel Corporate
48A472 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-0A-5E
(hex) 3COM
000A5E (base 16) 3COM
5400 Bayfront Plaza
Santa Clara CA 95052-8145
US

00-10-5A (hex) 3COM
00105A (base 16) 3COM
5400 BAYFRONT PLAZA
SANTA CLARA CA 95052
US

00-60-97 (hex) 3COM
006097 (base 16) 3COM
5400 BAYFRONT PLAZA
SANTA CLARA CA 95052
US

00-60-08 (hex) 3COM
006008 (base 16) 3COM
5400 BAYFRONT PLAZA
SANTA CLARA CA 95052
US

00-01-02 (hex) 3COM
000102 (base 16) 3COM
5400 BAYFRONT PLAZA
SANTA CLARA CA 95052
US

A0-28-33 (hex) IEEE Registration Authority
A02833 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

00-1B-6E (hex) Keysight Technologies, Inc.
001B6E (base 16) Keysight Technologies, Inc.
1400 Fountaingrove Pkwy.
Santa Rosa CA 95403
US

14-37-19 (hex) PT Prakarsa Visi Valutama
143719 (base 16) PT Prakarsa Visi Valutama
Jl. Cideng Timur No.11D
Jakarta Pusat Indonesia
10130
ID

58-2F-40 (hex) Nintendo Co.,Ltd
582F40 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

08-90-BA (hex) Danlaw Inc
0890BA (base 16) Danlaw Inc
23700 research Dr.
Farmington Hills 48335

US

4C-36-4E (hex) Panasonic Connect Co., Ltd.
4C364E (base 16) Panasonic Connect Co., Ltd.
4-1-62 Minoshima, Hakata-ku
Fukuoka-shi Fukuoka 812-8531
JP

BC-A5-8B (hex) Samsung Electronics Co.,Ltd
BCA58B (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

80-CE-B9 (hex) Samsung Electronics Co.,Ltd
80CEB9 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E8-5D-86 (hex) CHANG YOW TECHNOLOGIES INTERNATIONAL CO.,LTD.
E85D86 (base 16) CHANG YOW TECHNOLOGIES INTERNATIONAL CO.,LTD.
No 88 Shuren 6th St Wufong District
Taichung 413
TW

94-A3-CA (hex) KonnectONE,
LLC
94A3CA (base 16) KonnectONE, LLC
30 N Gould Street STE 4004
Sheridan WY 82801
US

D0-D3-FC (hex) Mios, Ltd.
D0D3FC (base 16) Mios, Ltd.
645 W. 9th St.
Los Angeles CA 90015
US

6C-6C-D3 (hex) Cisco Systems, Inc
6C6CD3 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E0-49-ED (hex) Audeze LLC
E049ED (base 16) Audeze LLC
3410 S Susan st

Santa Ana CA 92704
US

00-01-57 (hex) SYSWAVE CO., LTD
000157 (base 16) SYSWAVE CO., LTD
Dongho B/D 5F, 221-2
KOREA 135-010
KR

A8-01-6D (hex) Aiwa Corporation
A8016D (base 16) Aiwa Corporation
965 W Chicago Ave
Chicago IL 60642
US

04-40-A9 (hex) New H3C Technologies Co., Ltd
0440A9 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

80-30-E0 (hex) Hewlett Packard Enterprise
8030E0 (base 16) Hewlett Packard Enterprise
8000
Foothills Blvd.
Roseville CA 95747
US

24-4C-E3 (hex) Amazon Technologies Inc.
244CE3 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno 89507
US

B8-BE-F4 (hex) devolo AG
B8BEF4 (base 16) devolo AG
Charlottenburger Allee 67
Aachen NRW 52068
DE

58-FD-BE (hex) Shenzhen Taikaida Technology Co., Ltd
58FDBE (base 16) Shenzhen Taikaida Technology Co., Ltd
Shenzhen Baoan District Fuyong town Fengtang road Xintian building 613
shenzhen 518102
CN

F4-F1-97 (hex) EMTAKE Inc
F4F197 (base 16) EMTAKE Inc

14, Pangyoyeok ro 192, Bundang gu
Seongnam city Kyeonggi do 13524
KR

6C-ED-51 (hex) NEXCONTROL Co.,Ltd
6CED51 (base 16) NEXCONTROL Co.,Ltd
(#303-1007, Ssangyong 3th) 397, Seokcheon-ro
Bucheon-si Gyeonggi-do 14449
KR

10-62-E5 (hex) Hewlett Packard
1062E5 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

04-C3-E6 (hex) IEEE
Registration Authority
04C3E6 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

98-BB-99 (hex) Phicomm (Sichuan) Co.,Ltd.
98BB99 (base 16) Phicomm (Sichuan) Co.,Ltd.
125 longquan street park road,longquan district,chengdu city
Sichuan Chengdu 610015
CN

00-26-22 (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
002622 (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO. 25, THE 3RD Street KUNSHAN EXPORT PROCESSING ZONE
KUNSHAN SUZHOU 215300
CN

00-20-B5 (hex) YASKAWA ELECTRIC CORPORATION
0020B5 (base 16) YASKAWA ELECTRIC CORPORATION
2-1 Kurosakishiroishi, Yahatanishi-ku,
Kitakyushu 806-0004
JP

28-63-36 (hex) Siemens AG
286336 (base 16) Siemens AG
Werner-von-Siemens Strasse 50
Amberg 92224
DE

14-D1-69 (hex) HUAWEI TECHNOLOGIES CO.,LTD

14D169 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan
523808
CN

1C-C3-EB (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
1CC3EB (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

F4-60-E2 (hex) Xiaomi Communications Co Ltd
F460E2 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

E4-D1-24 (hex) Mojo Networks, Inc.
E4D124 (base 16) Mojo Networks, Inc.
339 N.Bernardo Ave
Mountain View CA 94043
US

9C-C9-50 (hex) Baumer Holding
9CC950 (base 16) Baumer Holding
Hummelstrasse 17
Frauenfeld Thurgau 8501
CH

F8-99-10 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
F89910 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

50-E0-EF (hex) Nokia
50E0EF (base 16) Nokia
600 March
Road
Kanata Ontario K2K 2E6
CA

60-F1-8A (hex) HUAWEI TECHNOLOGIES CO.,LTD
60F18A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-95-00 (hex) Amazon Technologies Inc.
C49500 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

68-DD-26 (hex) Shanghai Focus Vision Security Technology Co.,Ltd
68DD26 (base 16) Shanghai Focus Vision Security Technology Co.,Ltd
No.4888 Hunan Rd, Pudong New District
Shanghai Shanghai 201317
CN

28-66-E3 (hex) AzureWave Technology Inc.
2866E3 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

84-8A-8D (hex) Cisco Systems, Inc
848A8D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E0-62-67 (hex) Xiaomi Communications Co Ltd
E06267 (base 16) Xiaomi Communications Co Ltd
The Rainbow
City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

70-B7-AA (hex) vivo Mobile Communication Co., Ltd.
70B7AA (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

00-13-A3 (hex) Siemens Home & Office Comm. Devices
0013A3 (base 16) Siemens Home & Office Comm. Devices
4849 Alpha Road
Dallas 75244
US

08-25-25 (hex) Xiaomi Communications Co Ltd
082525 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085

CN

B0-B8-67 (hex) Hewlett Packard Enterprise
B0B867 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

84-B3-1B (hex) Kinexon GmbH
84B31B (base 16) Kinexon GmbH
Schellingstrasse, 35
München 80799
DE

F8-27-2E (hex) Mercku
F8272E (base 16) Mercku
509 Beaver
Creek Rd.
Waterloo Ontario N2V 2L3
CA

CC-50-E3 (hex) Espressif Inc.
CC50E3 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

A8-3E-0E (hex) HMD Global Oy
A83E0E (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

10-C1-72 (hex) HUAWEI TECHNOLOGIES CO.,LTD
10C172 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-0E-EE (hex) Muco Industrie BV
000EEE (base 16) Muco Industrie BV
Pleimuiden 12e
Amsterdam NH 1046 AG
NL

7C-1C-4E (hex) LG Innotek
7C1C4E (base 16) LG Innotek
26, Hanamsandan 5beon-ro

Gwangju Gwangsan-gu 506-731
KR

D8-B6-B7 (hex) Comtrend Corporation
D8B6B7 (base 16) Comtrend Corporation
3F-1, 10 Lane 609, Chongxin Road, Section 5,
New Taipei City, Taiwan 24159
TW

8C-14-B4 (hex) zte corporation
8C14B4
(base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

3C-98-72 (hex) Sercomm Corporation.
3C9872 (base 16) Sercomm Corporation.
3F,No.81,Yu-Yih Rd.,Chu-Nan Chen
Miao-Lih Hsuan 115
TW

40-C3-C6 (hex) SnapRoute
40C3C6 (base 16) SnapRoute
3960 Freedom Circle, Suite 100
Santa Clara CA 95054
US

D0-1C-BB (hex) Beijing Ctimes Digital Technology Co., Ltd.
D01CBB (base 16) Beijing Ctimes Digital Technology Co., Ltd.
7th Floor, Jinzhou Building, Suzhou Street, No.79, Haidian District,
Beijing 100089
CN

74-87-BB (hex) Ciena Corporation
7487BB (base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

C0-B6-F9 (hex) Intel Corporate
C0B6F9 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

DC-E3-05 (hex) AO
DCE305 (base 16) AO

Prospekt Mira
Moscow 129223
RU

A4-DA-32
(hex) Texas Instruments
A4DA32 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

78-04-73 (hex) Texas Instruments
780473 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

50-4C-7E (hex) THE 41ST INSTITUTE OF CETC
504C7E (base 16) THE 41ST INSTITUTE OF CETC
No.98 Xiangjiang Road,Huangdao District,Qingdao,Shandong
Qingdao Shangdong 266555
CN

2C-47-59 (hex) Beijing MEGA preponderance Science & Technology Co. Ltd
2C4759 (base 16) Beijing MEGA preponderance Science & Technology Co. Ltd
Room 2201,No.8,Ruichuang International B Block,Wangjing East Road
Beijing 100102
CN

DC-E0-EB (hex) Nanjing Aozheng Information Technology Co.Ltd
DCE0EB (base 16) Nanjing Aozheng Information Technology Co.Ltd
#E1-453, Zidong Road #1,Qixia District
Nanjing jiangsu 210000
CN

00-15-1E (hex) ETHERNET Powerlink Standarization Group (EPSG)
00151E (base 16) ETHERNET
Powerlink Standarization Group (EPSG)
c/o Zurich University of Applied Sciences
Winterthur CH-8401
CH

00-11-1E (hex) ETHERNET Powerlink Standarization Group (EPSG)
00111E (base 16) ETHERNET Powerlink Standarization Group (EPSG)
c/o University of Applied Sciences
Winterthur ZH CH-8401
CH

00-40-9D (hex) DigiBoard
00409D (base 16) DigiBoard
6400 FLYING CLOUD DRIVE
EDEN PRAIRIE MN 55344
US

14-93-46 (hex) PNI sensor corporation
149346 (base 16) PNI sensor corporation
2331 Circadian Way
Santa Rosa CA 95407
US

00-13-8A (hex) Qingdao GoerTek Technology Co., Ltd.
00138A (base 16) Qingdao GoerTek Technology Co., Ltd.
Room 605,Innovation Building,Hi-tech Industrial Park,
QINGDAO SHANDONG 266061
CN

A8-30-AD (hex) WEIFANG GOERTEK ELECTRONICS CO.,LTD
A830AD (base 16) WEIFANG GOERTEK ELECTRONICS CO.,LTD
Wei fang Export processing Zone
Wei Fang Shan Dong 261205
CN

A4-15-66
(hex) WEIFANG GOERTEK ELECTRONICS CO.,LTD
A41566 (base 16) WEIFANG GOERTEK ELECTRONICS CO.,LTD
Wei fang Export processing Zone
Wei Fang Shan Dong 261205
CN

1C-96-5A (hex) WEIFANG GOERTEK ELECTRONICS CO.,LTD
1C965A (base 16) WEIFANG GOERTEK ELECTRONICS CO.,LTD
Gaoxin 2 Road,Free Trade Zone,Weifang,Shandong,261205,P.R.China
Wei Fang Shan Dong 261205
CN

40-1B-5F (hex) WEIFANG GOERTEK ELECTRONICS CO.,LTD
401B5F (base 16) WEIFANG GOERTEK ELECTRONICS CO.,LTD
Gaoxin 2 Road,Free Trade Zone,Weifang,Shandong,261205,P.R.China
Weifang Shandong 261205
CN

14-4F-8A (hex) Intel Corporate
144F8A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-21-06 (hex) RIM Testing Services
002106 (base 16) RIM Testing Services
440 Phillip Street
Waterloo ON N2L 5R9
CA

5C-CD-7C (hex) MEIZU Technology Co.,Ltd.
5CCD7C (base 16) MEIZU Technology Co.,Ltd.
MEIZU
Tech Bldg., Technology& Innovation Coast
Zhuhai Guangdong 519085
CN

5C-96-56 (hex) AzureWave Technology Inc.
5C9656 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

E0-60-66 (hex) Sercomm Corporation.
E06066 (base 16) Sercomm Corporation.
3F,No.81,Yu-Yih Rd.,Chu-Nan Chen
Miao-Lih Hsuan 115
TW

BC-5F-F6 (hex) MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
BC5FF6 (base 16) MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
Mid-Fourth Flr.,Building 28,Cui Xi Fourth Road,Ke Yuan West,Nanshan
Shenzhen Guangdong 518057
CN

C8-E7-D8 (hex) MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
C8E7D8 (base 16) MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
Mid-Fourth Flr., Building 28, Cui Xi Fourth RoadKe Yuan West,Nanshan
Shenzhen Guangdong 518057
CN

A8-E5-52 (hex) JUWEL Aquarium AG & Co. KG
A8E552 (base 16) JUWEL Aquarium AG & Co. KG
Karl-Göx-Straße 1
Rotenburg
/ Wümme 27356
DE

60-D2-1C (hex) Sunnovo International Limited
60D21C (base 16) Sunnovo International Limited
1717 Haitai Building

Beijing Beijing 100083
CN

CC-51-B4 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
CC51B4 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

00-C3-F4 (hex) Samsung Electronics Co.,Ltd
00C3F4 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

B8-8A-EC (hex) Nintendo Co.,Ltd
B88AEC (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

78-72-5D (hex) Cisco Systems, Inc
78725D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

B4-6B-FC (hex) Intel Corporate
B46BFC (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B0-FC-0D
(hex) Amazon Technologies Inc.
B0FC0D (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

CC-C9-2C (hex) Schindler - PORT Technology
CCC92C (base 16) Schindler - PORT Technology
via della Pace 22
Locarno Ticino 6600
CH

00-1E-39 (hex) Comsys Communication Ltd.
001E39 (base 16) Comsys Communication Ltd.

9 Hamenofim st.
Herzelia 46725
IL

EC-8C-9A (hex) HUAWEI TECHNOLOGIES CO.,LTD
EC8C9A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B4-86-55 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B48655 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D0-D7-83 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D0D783 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

AC-3B-77
(hex) Sagemcom Broadband SAS
AC3B77 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

FC-E6-6A (hex) Industrial Software Co
FCE66A (base 16) Industrial Software Co
85, Aleksandyr Malinov Blvd. Office 6
Sofia 1715
BG

78-36-CC (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
7836CC (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

70-C8-33 (hex) Wirepas Oy
70C833 (base 16) Wirepas Oy
Visiokatu 4
Tampere 33720
FI

0C-73-EB (hex) IEEE Registration Authority

0C73EB (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

F0-B5-D1 (hex) Texas Instruments
F0B5D1 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

00-E0-00 (hex) FUJITSU LIMITED
00E000 (base 16) FUJITSU LIMITED
403, Kosugi-cho 1-chome,
Nakahara-ku
Kawasaki Kanagawa 211-0063
JP

90-84-8B (hex) HDR10+ Technologies, LLC
90848B (base 16) HDR10+ Technologies, LLC
3855 SW 153rd Drive
Beaverton OR 97006
US

0C-F5-A4 (hex) Cisco Systems, Inc
0CF5A4 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

80-C7-C5 (hex) Fiberhome Telecommunication Technologies Co.,LTD
80C7C5 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

28-16-A8 (hex) Microsoft Corporation
2816A8 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

F8-F5-32 (hex) ARRIS Group, Inc.
F8F532 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

04-8A-E1 (hex) FLEXTRONICS MANUFACTURING(ZHUHAI)CO.,LTD.
048AE1 (base 16) FLEXTRONICS MANUFACTURING(ZHUHAI)CO.,LTD.
Xin Qing Science & Technology Industrial Park,Jin An Town,Doumen ,Zhuhai,Guangdong,PRC
Zhuhai
Guangdong 519180
CN

8C-CF-5C (hex) BEFEGA GmbH
8CCF5C (base 16) BEFEGA GmbH
Reichenbacher Str. 22
Schwabach Bavaria 91126
DE

50-1D-93 (hex) HUAWEI TECHNOLOGIES CO.,LTD
501D93 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C8-D7-79 (hex) QING DAO HAIER TELECOM CO.,LTD.
C8D779 (base 16) QING DAO HAIER TELECOM CO.,LTD.
No 1 Haier road,Hi-tech ZoneQingdaoPR.China
Qingdao Shandong 266101
CN

10-B3-6F (hex) Bowei Technology Company Limited
10B36F (base 16) Bowei Technology Company Limited
2F,Building No.6C,1658,Gumei Rd
Shanghai Shanghai 200233
CN

FC-9B-C6 (hex) Sumavision Technologies Co.,Ltd
FC9BC6 (base 16) Sumavision Technologies Co.,Ltd
6F, Block A2, Power Creative Building,No.1 Shangdi East Road, Haidian District
Beijing 100085
CN

C8-29-2A (hex) Barun Electronics
C8292A
(base 16) Barun Electronics
869, Jangji-ri, Dongtan-myeon
Hwaseong-si Gyeonggi-do 445812
KR

00-80-BA (hex) SPECIALIX (ASIA) PTE, LTD
0080BA (base 16) SPECIALIX (ASIA) PTE, LTD
3 WINTERSELLS ROAD
UNITED KINGDOM

US

48-0B-B2 (hex) IEEE Registration Authority
480BB2 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

CC-C0-79 (hex) Murata Manufacturing Co., Ltd.
CCC079 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

F0-9C-D7 (hex) Guangzhou Blue Cheetah Intelligent Technology Co., Ltd.
F09CD7 (base 16) Guangzhou Blue Cheetah Intelligent Technology Co., Ltd.
Panyu District, Guangzhou City Panyu Avenue North 555 Panyu Energy Technology Park,Industry Building 2 seats 406-407
Guangzhou Guangdong 511400
CN

BC-E1-43 (hex) Apple, Inc.
BCE143 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

E4-82-CC (hex) Jumptronic GmbH
E482CC (base 16) Jumptronic GmbH
An der Weide 5
Springe 31832
DE

B0-83-D6 (hex) ARRIS Group, Inc.
B083D6 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

B0-41-6F (hex) Shenzhen Maxtang Computer Co.,Ltd
B0416F (base 16) Shenzhen Maxtang Computer Co.,Ltd
6/F, Bldg.3, Honghui Industrial Park, Liuxian 2nd Rd., Bao'an Dist.
Shenzhen Guangdong 518101
CN

E0-19-D8 (hex) BH TECHNOLOGIES
E019D8 (base 16) BH TECHNOLOGIES

12 RUE AMPERE
GRENOBLE 38000
FR

48-60-5F (hex) LG Electronics (Mobile Communications)
48605F (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

30-D9-D9 (hex) Apple, Inc.
30D9D9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

60-30-D4 (hex) Apple, Inc.
6030D4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

F8-95-EA (hex) Apple, Inc.
F895EA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

18-F1-D8 (hex) Apple, Inc.
18F1D8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

64-70-33 (hex) Apple, Inc.
647033 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

84-68-78 (hex) Apple, Inc.
846878 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C8-D0-83 (hex) Apple, Inc.

C8D083 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

8C-4C-DC (hex) PLANEX COMMUNICATIONS INC.
8C4CDC (base 16) PLANEX COMMUNICATIONS INC.
Planex Volta Bldg., 2-11-9 Ebisu-Nishi,Shibuya-ku,Tokyo 150-0021,Japan
Tokyo Tokyo 150-0021
JP

BC-AB-7C (hex) TRnP KOREA Co Ltd
BCAB7C (base 16) TRnP KOREA Co Ltd
room1308,239 SoHyungRo,WonMiGu,
BuChunCity KyungKiDo 1135
KR

6C-38-38 (hex) Marking System
Technology Co., Ltd.
6C3838 (base 16) Marking System Technology Co., Ltd.
76-1, Hirakawa Yokomichi
Joyo-shi Kyoto 610-0101
JP

9C-2E-A1 (hex) Xiaomi Communications Co Ltd
9C2EA1 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

0C-6A-BC (hex) Fiberhome Telecommunication Technologies Co.,LTD
0C6ABC (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

08-97-34 (hex) Hewlett Packard Enterprise
089734 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

3C-CD-5D (hex) HUAWEI TECHNOLOGIES CO.,LTD
3CCD5D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

7C-76-68 (hex) HUAWEI TECHNOLOGIES CO.,LTD
7C7668 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2
Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-13-86 (hex) ABB Inc/Totalflow
001386 (base 16) ABB Inc/Totalflow
123
Bartlesville OK 74006
US

00-3C-10 (hex) Cisco Systems, Inc
003C10 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F0-41-C8 (hex) IEEE Registration Authority
F041C8 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

CC-99-16 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
CC9916 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

EC-7F-C6 (hex) ECCEL CORPORATION SAS
EC7FC6 (base 16) ECCEL CORPORATION SAS
CRA 106 15A 25 LT 88 MZ 17 BG 1, ZONA FRANCA BOGOTA
BOGOTA D.C. 110921
CO

A4-38-CC (hex) Nintendo Co.,Ltd
A438CC (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO
KYOTO 601-8501
JP

74-72-1E (hex) Edison Labs Inc.
74721E (base 16) Edison Labs Inc.
1122 Stanyan St
San Francisco CA 94117

US

78-0F-77 (hex) HangZhou Gubei Electronics Technology Co.,Ltd
780F77 (base 16) HangZhou Gubei Electronics Technology Co.,Ltd
HangZhou City, Zhejiang province Binjiang District Jiang Hong Road 611 Building 1 room 106
Hangzhou ZheJiang 310052
CN

4C-AB-FC (hex) zte corporation
4CABFC (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

7C-2A-31 (hex) Intel Corporate
7C2A31 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

0C-F3-46 (hex) Xiaomi Communications Co Ltd
0CF346 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

7C-FF-4D (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
7CFF4D (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

74-70-FD (hex) Intel Corporate
7470FD (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

50-65-F3 (hex) Hewlett Packard
5065F3 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

3C-95-09 (hex) Liteon Technology Corporation
3C9509 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road

New Taipei City Taiwan 23585
TW

30-FD-38 (hex) Google, Inc.
30FD38 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

64-CB-5D (hex) SIA TeleSet
64CB5D (base 16) SIA TeleSet
Krslavas iela 5
Vecstropi, Naujenes par., Daugavpils distr. LV-5413
LV

58-21-E9 (hex) TWPI
5821E9 (base 16) TWPI
PMB# 335; 1121 Annapolis Road
Odenton MD 21113
US

F0-E3-DC (hex) Tecon MT,
LLC
F0E3DC (base 16) Tecon MT, LLC
3rd Khoroshevskaya st - 20
Moscow 123298
RU

A8-DA-01 (hex) Shenzhen NUOLIJIA Digital Technology Co.,Ltd
A8DA01 (base 16) Shenzhen NUOLIJIA Digital Technology Co.,Ltd
A Area of The Second Flood and D Area of The First Floor,Factory Building A,Youxinda Industrial Park,Gengyu Road,Tianliao Community,Gongming Street Office,Guangming New District,Shenzhen City,Guangdong,P.R.China
Shenzhen Guangdong 518000
CN

88-E9-0F (hex) innomdlelab
88E90F (base 16) innomdlelab
Unnam 1 gil, 3
Seocho-gu Seoul 06778
KR

00-10-D8 (hex) CALISTA
0010D8 (base 16) CALISTA
56A Packhorse Road
Bucks SL9 8EF ENGLAND
GB

00-21-94 (hex) Ping Communication

002194 (base 16) Ping Communication
Brenden 18
Appenzell Meistersrüte AI 9050
CH

18-94-C6 (hex) ShenZhen Chenyee Technology Co., Ltd.
1894C6 (base 16) ShenZhen Chenyee Technology Co., Ltd.
32F, Tower A, East
Pacific International Center, No.7888, Shennan Avenue, Futian District
Shenzhen 518040
CN

70-3A-73 (hex) Shenzhen Sundray Technologies Company Limited
703A73 (base 16) Shenzhen Sundray Technologies Company Limited
6th Floor,Block A1, Nanshan iPark, No.1001 XueYuan Road, Nanshan District
Shenzhen Guangdong 518057
CN

80-AD-16 (hex) Xiaomi Communications Co Ltd
80AD16 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

04-4E-AF (hex) LG Innotek
044EAF (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

98-D8-63 (hex) Shanghai High-Flying Electronics Technology Co., Ltd
98D863 (base 16) Shanghai High-Flying Electronics Technology Co., Ltd
Room 1002 ,#1Building,No.3000 Longdong Avenue,Pudong District,Shanghai,China
shanghai shanghai 201203
CN

C4-9F-4C (hex) HUAWEI TECHNOLOGIES
CO.,LTD
C49F4C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

0C-70-4A (hex) HUAWEI TECHNOLOGIES CO.,LTD
0C704A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

10-F9-EB (hex) Industria Fueguina de Relojería Electrónica s.a.
10F9EB (base 16) Industria Fueguina de Relojería Electrónica s.a.
Sarmiento 2920
Rio Grande Tierra de Fuego V9420GIV
AR

5C-5A-EA (hex) FORD
5C5AEA (base 16) FORD
17425 Federal Drive
Allen Park MI 48101
US

00-0B-7B (hex) Test-Um Inc.
000B7B (base 16) Test-Um Inc.
808 Calle Plano
Camarillo CA 93012
US

BC-DD-C2 (hex) Espressif Inc.
BCDDC2 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

C8-8F-26 (hex) Skyworth Digital Technology(Shenzhen) Co.,Ltd
C88F26
(base 16) Skyworth Digital Technology(Shenzhen) Co.,Ltd
7F,Block A,Skyworth Building,
Shenzhen Guangdong 518057
CN

20-36-5B (hex) Megafone Limited
20365B (base 16) Megafone Limited
Unit 702,7/F,Bankok Bank Building,NO.18 Bonham Strand West
Hong Kong 999077
HK

E8-DE-00 (hex) ChongQing GuanFang Technology Co.,LTD
E8DE00 (base 16) ChongQing GuanFang Technology Co.,LTD
2F, A District,No.3 Middle Section of Mount Huangshan Avenue
ChongQing ChongQing 401121
CN

FC-64-3A (hex) Samsung Electronics Co.,Ltd
FC643A (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350

KR

00-30-74 (hex) EQUIINET LTD.
003074 (base 16) EQUIINET LTD.
EDISON HOUSE
SWINDON, SN3 5JA
GB

EC-9B-8B (hex) Hewlett Packard Enterprise
EC9B8B (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

B0-B3-AD (hex) HUMAX Co., Ltd.
B0B3AD
(base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

40-BD-32 (hex) Texas Instruments
40BD32 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

CC-8E-71 (hex) Cisco Systems, Inc
CC8E71 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

70-D0-81 (hex) Beijing Netpower Technologies Inc.
70D081 (base 16) Beijing Netpower Technologies Inc.
Room 201, Block B, NO. 15 Building, EastZone
Courtyard10, Xibeiwang East Road Haidian District, Beijing 100094
CN

70-C9-4E (hex) Liteon Technology Corporation
70C94E (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

38-F5-54 (hex) HISENSE ELECTRIC CO.,LTD
38F554 (base 16) HISENSE ELECTRIC CO.,LTD
No. 218, Qianwangang Rd

Qingdao Shandong 266555
CN

18-A2-8A (hex) Essel-T Co., Ltd
18A28A (base
16) Essel-T Co., Ltd
1211 kranztechno, 388 Dunchon-daero
Seongnam-si Jungwon-gu, Gyeonggi-do 13403
KR

A8-51-5B (hex) Samsung Electronics Co.,Ltd
A8515B (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-19-36 (hex) STERLITE OPTICAL TECHNOLOGIES LIMITED
001936 (base 16) STERLITE OPTICAL TECHNOLOGIES LIMITED
E-1,E-2,&E-3
AURANGABAD MAHARASTRA 431136
IN

3C-E8-24 (hex) HUAWEI TECHNOLOGIES CO.,LTD
3CE824 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

54-B7-E5 (hex) Rayson Technology Co., Ltd.
54B7E5 (base 16) Rayson Technology Co., Ltd.
1F No.9 R&D Rd.II, Science-Based Industrial Park
Hsin-Chu 300
TW

94-63-72 (hex) vivo Mobile Communication Co., Ltd.
946372 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

BC-0F-A7
(hex) Ouster
BC0FA7 (base 16) Ouster
350 Treat Ave
San Francisco CA 94110
US

F0-C9-D1 (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.

F0C9D1 (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

34-7E-5C (hex) Sonos, Inc.
347E5C (base 16) Sonos, Inc.
614 Chapala St
Santa Barbara CA 93101
US

F8-C1-20 (hex) Xi'an Link-Science Technology Co.,Ltd
F8C120 (base 16) Xi'an Link-Science Technology Co.,Ltd
1/FBlock F,Building zhichao Weilai,No.999,10#Caotan Road,Xi'an
xi'an 710016
CN

B4-FB-F9 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B4FBF9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

50-6F-77 (hex) HUAWEI TECHNOLOGIES CO.,LTD
506F77 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake
Technology Park
Dongguan 523808
CN

0C-41-E9 (hex) HUAWEI TECHNOLOGIES CO.,LTD
0C41E9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

70-F2-20 (hex) Actiontec Electronics, Inc
70F220 (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

34-5A-06 (hex) SHARP Corporation
345A06 (base 16) SHARP Corporation
1 Takumi-cho, Sakai-ku
Sakai City Osaka 590-8522
JP

B8-9F-09 (hex) Wistron Neweb Corporation
B89F09 (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

04-02-CA (hex) Shenzhen Vtsonic Co.,ltd
0402CA (base 16) Shenzhen Vtsonic Co.,ltd
No.35,the 2nd Industrial Zone,Tangxiayong Village,Songgang Town,Bao'an District,Shenzhen,China.
Shenzhen Guangdong 518102
CN

3C-FB-5C (hex) Fiberhome Telecommunication Technologies Co.,LTD
3CFB5C
(base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

74-40-BB (hex) Hon Hai Precision Ind. Co.,Ltd.
7440BB (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

88-BD-45 (hex) Samsung Electronics Co.,Ltd
88BD45 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

54-FC-F0 (hex) Samsung Electronics Co.,Ltd
54FCF0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

30-6A-85 (hex) Samsung Electronics Co.,Ltd
306A85 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

4C-DD-31 (hex) Samsung Electronics Co.,Ltd
4CDD31 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B4-DE-31 (hex) Cisco Systems, Inc
B4DE31 (base 16) Cisco
Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A4-40-27 (hex) zte corporation
A44027 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

B4-F7-A1 (hex) LG Electronics (Mobile Communications)
B4F7A1 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

70-EF-00 (hex) Apple, Inc.
70EF00 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

28-ED-E0 (hex) AMPAK Technology, Inc.
28EDE0 (base 16) AMPAK Technology, Inc.
No.1,Jen Ai Road Hsinchu Industrial Park, Hukou
Hsinchu Taiwan ROC. 30352
TW

1C-11-61 (hex) Ciena Corporation
1C1161 (base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

C8-77-65 (hex) Tiesse SpA
C87765 (base 16) Tiesse SpA
Via Asti
Ivrea TO 10015
IT

D0-81-7A (hex) Apple, Inc.
D0817A (base 16) Apple,
Inc.
1 Infinite Loop

Cupertino CA 95014
US

98-CA-33 (hex) Apple, Inc.
98CA33 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

68-AB-1E (hex) Apple, Inc.
68AB1E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

BC-FF-EB (hex) Motorola Mobility LLC, a Lenovo Company
BCFFEB (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

2C-37-C5 (hex) Qingdao Haier Intelligent Home Appliance Technology Co.,Ltd
2C37C5 (base 16) Qingdao Haier Intelligent Home Appliance Technology Co.,Ltd
ingdao high-tech park haier road 1
Qingdao Shandong 266101
CN

CC-40-D0 (hex) NETGEAR
CC40D0 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

7C-76-30 (hex) Shenzhen YOUHUA Technology Co., Ltd
7C7630 (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business
Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

98-22-EF (hex) Liteon Technology Corporation
9822EF (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

7C-76-35 (hex) Intel Corporate
7C7635 (base 16) Intel Corporate

Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B8-07-16 (hex) vivo Mobile Communication Co., Ltd.
B80716 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

78-80-38 (hex) FUNAI ELECTRIC CO., LTD.
788038 (base 16) FUNAI ELECTRIC CO., LTD.
7-1, NAKAGAITO 7-CHOME
DAITO OSAKA 5740013
JP

F0-45-DA (hex) Texas Instruments
F045DA (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

1C-EE-C9 (hex) Elo touch solutions
1CEEC9 (base 16) Elo touch solutions
1033 McCarthy Boulevard
Milpitas CA 95035
US

00-18-62
(hex) Seagate Technology
001862 (base 16) Seagate Technology
1280 Disc Drive
Shakopee MN 55379
US

00-0C-50 (hex) Seagate Technology
000C50 (base 16) Seagate Technology
M/S NW1F01
Longmont CO 80503
US

E4-F0-42 (hex) Google, Inc.
E4F042 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

20-B3-99 (hex) Enterasys

20B399 (base 16) Enterasys
50 Minuteman Rd
Andover MA 01810
US

CC-2D-21 (hex) Tenda Technology Co.,Ltd.Dongguan branch
CC2D21 (base 16) Tenda Technology Co.,Ltd.Dongguan branch
Room 79,Yuanyi Road,Dalang Town,Dongguan Guangdong 523770
Dongguan Guangdong 523770
CN

00-40-97 (hex) DATEX DIVISION OF
004097 (base 16) DATEX DIVISION OF
INSTRUMENTARIUM CORP.

FI

40-48-FD (hex) IEEE Registration Authority
4048FD (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

A8-EE-C6
(hex) Muuselabs NV/SA
A8EEC6 (base 16) Muuselabs NV/SA
Rue du Tocsin 12
Brussels 1000
BE

9C-4F-CF (hex) TCT mobile ltd
9C4FCF (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

D8-96-E0 (hex) Alibaba Cloud Computing Ltd.
D896E0 (base 16) Alibaba Cloud Computing Ltd.
Yuhang District of Hangzhou Wenyi Road, Building 1, No. 969 Xixi Park, Zhejiang Province
Hangzhou Zhejiang 310000
CN

20-78-52 (hex) Nokia Solutions and Networks GmbH & Co. KG
207852 (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

F4-17-B8 (hex) AirTies Wireless Networks
F417B8 (base 16) AirTies Wireless Networks
Esentepe Mah., Kore ?ehitleri Cad.
Istanbul ?i?li 34360
TR

38-F7-3D (hex) Amazon Technologies Inc.
38F73D (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

C0-A0-0D
(hex) ARRIS Group, Inc.
C0A00D (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

B8-F7-4A (hex) RCNTEC
B8F74A (base 16) RCNTEC
Polkovaya street 3
Moscow 127018
RU

EC-F4-51 (hex) Arcadyan Corporation
ECF451 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

58-12-43 (hex) AcSiP Technology Corp.
581243 (base 16) AcSiP Technology Corp.
3F., No.22, Dalin Rd.,
Taoyuan Taoyuan County 33067
TW

58-C1-7A (hex) Cambium Networks Limited
58C17A (base 16) Cambium Networks Limited
Unit B2, Linhay Business Park,
Ashburton Devon TQ13 7UP
GB

E0-AA-DB (hex) Nanjing PANENG Technology Development Co.,Ltd
E0AADB (base 16) Nanjing PANENG Technology Development Co.,Ltd
NO.6 Paneng Road,Nanjing High-tech Zone,Jiang Su,China
Nanjing 210061
CN

C8-DE-C9 (hex) Coriant
C8DEC9 (base 16) Coriant
1415 W. Diehl
Rd
Naperville IL 60563
US

34-2A-F1 (hex) Texas Instruments
342AF1 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

0C-61-11 (hex) Anda Technologies SAC
0C6111 (base 16) Anda Technologies SAC
Av. Santa Cruz 888, Miraflores
Lima Peru Lima18
PE

00-22-C4 (hex) epro GmbH
0022C4 (base 16) epro GmbH
Joebkesweg 3
Gronau NRW 48599
DE

0C-15-39 (hex) Apple, Inc.
0C1539 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

1C-33-0E (hex) PernixData
1C330E (base 16) PernixData
1745 Technology Drive, Suite 800
San Jose CA 95110
US

44-D5-A5 (hex) AddOn Computer
44D5A5 (base 16) AddOn Computer
15775 Gateway cir
tustin CA 92780
US

64-51-06 (hex) Hewlett Packard
645106 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070

US

00-BE-9E (hex) Fiberhome Telecommunication Technologies Co.,LTD
00BE9E
(base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

54-C5-7A (hex) Sunnovo International Limited
54C57A (base 16) Sunnovo International Limited
1717 Haitai Building
Beijing Beijing 100083
CN

6C-56-97 (hex) Amazon Technologies Inc.
6C5697 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

F8-7B-20 (hex) Cisco Systems, Inc
F87B20 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A8-9F-EC (hex) ARRIS Group, Inc.
A89FEC (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

38-AD-8E (hex) New H3C Technologies Co., Ltd
38AD8E (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

34-D0-B8 (hex) IEEE Registration Authority
34D0B8 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

D0-67-26
(hex) Hewlett Packard Enterprise
D06726 (base 16) Hewlett Packard Enterprise

8000 Foothills Blvd.
Roseville CA 95747
US

EC-FA-F4 (hex) SenRa Tech Pvt. Ltd
ECFAF4 (base 16) SenRa Tech Pvt. Ltd
133, First Floor, Lane No. 1, Westend Marg, Saidulajab
New Delhi 110030
IN

00-05-FF (hex) SNS Solutions, Inc.
0005FF (base 16) SNS Solutions, Inc.
2nd Fl. Hill House,

KR

D8-8F-76 (hex) Apple, Inc.
D88F76 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

40-9C-28 (hex) Apple, Inc.
409C28 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-1C-73 (hex) Arista Networks
001C73 (base 16) Arista Networks
5470 Great America Pkwy
Santa Clara 95054
US

2C-8A-72 (hex) HTC Corporation
2C8A72 (base 16) HTC Corporation
No. 23, Xinghua Rd., Taoyuan City
Taoyuan County Taiwan 330
TW

38-01-9F (hex) SHENZHEN FAST
TECHNOLOGIES CO.,LTD
38019F (base 16) SHENZHEN FAST TECHNOLOGIES CO.,LTD
Room 202,Building No.5,Section 30,No.2 of Kefa Road,Nanshan District,Shenzhen,P.R.China
Shenzhen Guangdong 518057
CN

24-5C-CB (hex) AXIe Consortium, Inc.

245CCB (base 16) AXIe Consortium, Inc.
P.O. Box 1016
Niwot CO 80544-1016
US

60-9B-C8 (hex) Hipad Intelligent Technology Co., Ltd.
609BC8 (base 16) Hipad Intelligent Technology Co., Ltd.
No. 688, East of Huangtang Street, LinkongEconomy District
Nanchang Jiangxi 330000
CN

40-6A-8E (hex) Hangzhou Puwell OE Tech Ltd.
406A8E (base 16) Hangzhou Puwell OE Tech Ltd.
Letel Technology Park, 500 Qiuyi Road, Binjiang District
Hangzhou Zhejiang 310052
CN

1C-0F-AF (hex) Lucid Vision Labs
1C0FAF (base 16) Lucid Vision Labs
Unit 130 - 13200 Delf Place
Richmond BC V6V2A2
CA

88-B4-A6 (hex) Motorola Mobility LLC, a Lenovo Company
88B4A6 (base 16) Motorola Mobility
LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

F4-49-EF (hex) EMSTONE
F449EF (base 16) EMSTONE
#310, Ace Techno Tower 3rd, 38 Digital-ro-29-gil
Guro-Gu Seoul 08381
KR

54-DF-24 (hex) Fiberhome Telecommunication Technologies Co.,LTD
54DF24 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

AC-1D-DF (hex) IEEE Registration Authority
AC1DDF (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

24-B2-09 (hex) Avaya Inc
24B209 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

FC-65-DE (hex) Amazon Technologies Inc.
FC65DE (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

BC-90-3A (hex) Robert Bosch GmbH
BC903A (base 16) Robert Bosch GmbH
Postfach 1661
Leonberg 71226
DE

E8-D8-19 (hex) AzureWave Technology Inc.
E8D819
(base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

B0-6E-BF (hex) ASUSTek COMPUTER INC.
B06EBF (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

00-21-28 (hex) Oracle Corporation
002128 (base 16) Oracle Corporation
17 Network Circle
Menlo Park CA 95025
US

28-CF-08 (hex) ESSYS
28CF08 (base 16) ESSYS
gaetbeol-ro
Incheon 21999
KR

74-86-0B (hex) Cisco Systems, Inc
74860B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

18-2D-98 (hex) Jinwoo Industrial system
182D98 (base 16) Jinwoo Industrial system
7F,Jinwoo Building,149 dosan-daero
seoul gangnamgu 06036
KR

78-2D-7E (hex) TRENDnet, Inc.
782D7E (base 16) TRENDnet, Inc.
20675 Manhattan Place
Torrance CA 90501
US

74-1A-E0 (hex) IEEE Registration Authority
741AE0 (base 16) IEEE
Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

58-38-79 (hex) RICOH COMPANY, LTD.
583879 (base 16) RICOH COMPANY, LTD.
1005, Shimo-ogino
Atsugi-City Kanagawa-Pref. 243-0298
JP

F4-4C-70 (hex) Skyworth Digital Technology(Shenzhen) Co.,Ltd
F44C70 (base 16) Skyworth Digital Technology(Shenzhen) Co.,Ltd
7F,Block A,Skyworth Building,
Shenzhen Guangdong 518057
CN

78-32-1B (hex) D-Link International
78321B (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

D8-A5-34 (hex) Spectronix Corporation
D8A534 (base 16) Spectronix Corporation
3-28-15, Tarumi-cho
Suita-city Osaka 564-0062
JP

00-A0-96 (hex) MITSUMI ELECTRIC CO.,LTD.
00A096 (base 16) MITSUMI ELECTRIC CO.,LTD.
2-11-2, Tsurumaki
Tama-shi Tokyo 206-8567

JP

78-61-7C (hex) MITSUMI ELECTRIC CO.,LTD.
78617C (base 16) MITSUMI ELECTRIC CO.,LTD.
2-11-2,
Tsurumaki
Tama-shi Tokyo 206-8567
JP

EC-51-BC (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
EC51BC (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

F0-79-E8 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
F079E8 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

B0-93-5B (hex) ARRIS Group, Inc.
B0935B (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

D0-B1-28 (hex) Samsung Electronics Co.,Ltd
D0B128 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

BC-54-51 (hex) Samsung Electronics Co.,Ltd
BC5451 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

08-66-1F (hex) Palo Alto Networks
08661F (base 16) Palo Alto Networks
3000
Tannery Way
Santa Clara CA 95054
US

74-EA-C8 (hex) New H3C Technologies Co., Ltd
74EAC8 (base 16) New H3C Technologies Co., Ltd

466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

B4-D6-4E (hex) Caldero Limited
B4D64E (base 16) Caldero Limited
Concordia Works, 30 Sovereign Street
Leeds West Yorkshire LS1 4BA
GB

F8-9D-BB (hex) Tintri
F89DBB (base 16) Tintri
303 Ravendale Dr
Mountain View CA 94070
US

D8-A0-1D (hex) Espressif Inc.
D8A01D (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

90-4E-91 (hex) IEEE Registration Authority
904E91 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

DC-0C-2D (hex) WEIFANG GOERTEK ELECTRONICS CO.,LTD
DC0C2D (base 16) WEIFANG GOERTEK ELECTRONICS CO.,LTD
Gaoxin 2 Road, Free Trade Zone,Weifang,Shandong,261205,P.R.China
Weifang
Shandong 261205
CN

C4-F3-12 (hex) Texas Instruments
C4F312 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

60-18-03 (hex) Daikin Air-conditioning (Shanghai) Co., Ltd.
601803 (base 16) Daikin Air-conditioning (Shanghai) Co., Ltd.
318 Shen Fu Road, Xin Zhuang Industry Zone, Shanghai, 201108, China
Shanghai 201108
CN

8C-FE-B4 (hex) VSOONTECH ELECTRONICS CO., LIMITED

8CFEB4 (base 16) VSOONTECH ELECTRONICS CO., LIMITED
18th, Floor, On Hong Commericial Building, 145 Hennessy Road, Wanchai, HONG KONG
HongKong 999077
HK

94-0E-6B (hex) HUAWEI TECHNOLOGIES CO.,LTD
940E6B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

64-FB-50 (hex) RoomReady/Zdi, Inc.
64FB50 (base 16) RoomReady/Zdi, Inc.
2200 N. Main Street
Normal IL 61761
US

58-B4-2D (hex) YSTen Technology Co.,Ltd
58B42D (base
16) YSTen Technology Co.,Ltd
Room 1715,17/F North Star Times Tower,Chaoyang District,Beijing.
Beijing 100101
CN

34-29-8F (hex) IEEE Registration Authority
34298F (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

5C-EA-1D (hex) Hon Hai Precision Ind. Co.,Ltd.
5CEA1D (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

18-14-56 (hex) Nokia Corporation
181456 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu Ou 90590
FI

78-CA-04 (hex) Nokia Corporation
78CA04 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

10-4B-46 (hex) Mitsubishi Electric Corporation
104B46 (base 16) Mitsubishi Electric Corporation
2-7-3
Chiyoda-ku Tokyo 100-8310
JP

00-17-C8 (hex) KYOCERA Display Corporation
0017C8 (base 16) KYOCERA Display Corporation
2-14-9, Tamagawadai
Tokyo
158-8610
JP

5C-E8-B7 (hex) Oraimo Technology Limited
5CE8B7 (base 16) Oraimo Technology Limited
RMS 05-1513A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HONG KONG HONG KONG 999077
HK

CC-66-B2 (hex) Nokia
CC66B2 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

38-E2-DD (hex) zte corporation
38E2DD (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

88-5D-FB (hex) zte corporation
885DFB (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

68-EC-C5 (hex) Intel Corporate
68ECC5 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

3C-11-B2 (hex) Fraunhofer FIT
3C11B2 (base 16) Fraunhofer FIT
Schloss Birlinghoven
Sankt Augustin 53754

DE

28-8C-B8 (hex) zte corporation
288CB8
(base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

78-BC-1A (hex) Cisco Systems, Inc
78BC1A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-5C-86 (hex) SHENZHEN FAST TECHNOLOGIES CO.,LTD
005C86 (base 16) SHENZHEN FAST TECHNOLOGIES CO.,LTD
Room 202,Building No.5,Section 30,No.2 of Kefa Road,Nanshan District,Shenzhen,P.R.China
Shenzhen Guangdong 518057
CN

5C-54-6D (hex) HUAWEI TECHNOLOGIES CO.,LTD
5C546D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

48-BC-A6 (hex) ASUNG TECHNO CO.,Ltd
48BCA6 (base 16) ASUNG TECHNO CO.,Ltd
462, Dogok-ro, Songpa-gu, Seoul, Republic of Korea
SEOUL Repubilc of KOREA 05574
KR

3C-10-E6 (hex) PHAZR Inc.
3C10E6 (base 16) PHAZR Inc.
8, Presitige Circle, Suite 104
Allen TX
75002
US

30-05-3F (hex) JTI Co.,Ltd.
30053F (base 16) JTI Co.,Ltd.
102-1508, 36, Bucheon-ro 198beon-gil,
Buchcheon-si Gyeonggi-do 14557
KR

B0-09-DA (hex) Ring Solutions
B009DA (base 16) Ring Solutions

1200 Atwater Drive, Suite 225
Malvern PA 19355
US

00-05-4F (hex) Garmin International
00054F (base 16) Garmin International
1200 E. 151st St
Olathe KS 66062
US

90-45-06 (hex) Tokyo Boeki Medisys Inc.
904506 (base 16) Tokyo Boeki Medisys Inc.
1-14-21, Higashitoyoda
Hino Tokyo 191-0052
JP

00-21-A1 (hex) Cisco Systems, Inc
0021A1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E0-48-D3 (hex) MOBIWIRE MOBILES (NINGBO) CO.,LTD
E048D3 (base 16) MOBIWIRE MOBILES (NINGBO) CO.,LTD
No.999,Dacheng East Road,
Fenghua Zhejiang 315500
CN

B8-DB-1C (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
B8DB1C (base 16) Integrated
Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

58-E2-8F (hex) Apple, Inc.
58E28F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

78-7B-8A (hex) Apple, Inc.
787B8A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-0C-03 (hex) HDMI Licensing, LLC

000C03 (base 16) HDMI Licensing, LLC
1060 East Arques Ave.
Sunnyvale CA 94085
US

F4-93-9F (hex) Hon Hai Precision Industry Co., Ltd.
F4939F (base 16) Hon Hai Precision Industry Co., Ltd.
GuangDongShenZhen
ShenZhen GuangDong 518109
CN

00-07-26 (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
000726 (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT
A211-A213 & B201-B210, 2F, Baiying Building, 1019#, Nanhai RD, Shekou Party, Nanshan District,
Shenzhen Guangdong 518067
CN

FC-8B-97 (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
FC8B97 (base 16) SHENZHEN GONGJIN
ELECTRONICS CO.,LT
B116,B118,A211-A213,B201-B213,A311-A313,B411-413,BF08-09 Nanshan Medical Instrument Industry Park,
Shenzhen Guangdong 518067
CN

28-80-A2 (hex) Novatel Wireless Solutions, Inc.
2880A2 (base 16) Novatel Wireless Solutions, Inc.
9710 Scranton Rd., Suite 200
San Diego CA 92121
US

84-A1-D1 (hex) Sagemcom Broadband SAS
84A1D1 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

FC-7F-56 (hex) CoSyst Control Systems GmbH
FC7F56 (base 16) CoSyst Control Systems GmbH
Martin-Albert-Str. 1
Nürnberg Bayern 90491
DE

2C-40-53 (hex) Samsung Electronics Co.,Ltd
2C4053 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

0C-8F-FF (hex) HUAWEI TECHNOLOGIES CO.,LTD
0C8FFF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan
523808
CN

54-B1-21 (hex) HUAWEI TECHNOLOGIES CO.,LTD
54B121 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-0C-63 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A80C63 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

5C-C3-07 (hex) HUAWEI TECHNOLOGIES CO.,LTD
5CC307 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

90-9D-7D (hex) ARRIS Group, Inc.
909D7D (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

78-8C-4D (hex) Indyme Solutions, LLC
788C4D (base 16) Indyme Solutions, LLC
8295 Aero Place Ste 260
San Diego CA 92123
US

DC-EB-53 (hex) Wuhan QianXiao Elecronic Technology CO.,LTD
DCEB53 (base 16) Wuhan QianXiao Elecronic Technology CO.,LTD
Guanggu
Xinzhongxin, No.303 of Guanggu road, East lake development zone
wuhan hubei 430000
CN

EC-8A-C7 (hex) Fiberhome Telecommunication Technologies Co.,LTD
EC8AC7 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074

CN

88-36-5F (hex) LG Electronics (Mobile Communications)
88365F (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

24-B2-DE (hex) Espressif Inc.
24B2DE (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

F0-EF-D2 (hex) TF PAYMENT SERVICE CO., LTD
F0EFD2 (base 16) TF PAYMENT SERVICE CO., LTD
5F Shibadaimon Center Building, 1-10-11 Shibadaimon
Minato-ku Tokyo 105-0012
JP

00-0E-59 (hex) Sagemcom Broadband SAS
000E59 (base 16) Sagemcom Broadband SAS
2, rue du petit Albi
CERGY SAINT CHRISTOPHE val d'Oise 95800
FR

78-81-02
(hex) Sercomm Corporation.
788102 (base 16) Sercomm Corporation.
3F,No.81,Yu-Yih Rd.,Chu-Nan Chen
Miao-Lih Hsuan 115
TW

84-AA-9C (hex) MitraStar Technology Corp.
84AA9C (base 16) MitraStar Technology Corp.
No. 6, Innovation Road II,
Hsinchu 300
TW

2C-AB-25 (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
2CAB25 (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT
B116,B118,A211-A213,B201-B213,A311-A313,B411-413,BF08-09 Nanshan Medical Instrument Industry Park,
Shenzhen Guangdong 518067
CN

1C-A5-32 (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
1CA532 (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT
1#SongGang RD, Bao'an Dist., Shenzhen, Guangdong,China

Shenzhen Guangdong 518109
CN

00-1F-92 (hex) Motorola Solutions Inc.
001F92 (base 16) Motorola Solutions Inc.
500 W Monroe Street, Ste 4400
Chicago IL 60661-3781
US

00-25-C4 (hex) Ruckus Wireless
0025C4 (base 16) Ruckus Wireless
350
West Java Drive
Sunnyvale CA 94089
US

C0-C5-20 (hex) Ruckus Wireless
C0C520 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

70-DE-F9 (hex) FAI WAH INTERNATIONAL (HONG KONG) LIMITED
70DEF9 (base 16) FAI WAH INTERNATIONAL (HONG KONG) LIMITED
Room 19, 8F.,Corporation Park, 11 On Lai Street,Shatin,Shek Mun,N.T.Hong Kong
Hong Kong 999077
HK

4C-B0-08 (hex) Shenzhen Gwelltimes Technology Co.,Ltd
4CB008 (base 16) Shenzhen Gwelltimes Technology Co.,Ltd
A4 building 15floor Zhongying Jewelry Industrial Park Bulan Road No.31 Nanwan Street Longgang District Shenzhen City China
Shenzhen 518112
CN

E8-6F-F2 (hex) Actiontec Electronics, Inc
E86FF2 (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

00-50-18 (hex) AMIT, Inc.
005018 (base 16) AMIT, Inc.
No.32, Huangong Rd.,
Yongkang City, Tainan County 71041
TW

FC-2F-6B

(hex) Everspin Technologies, Inc.
FC2F6B (base 16) Everspin Technologies, Inc.
1347 N. Alma School Rd., Suite 220
Chandler AZ 85224
US

10-1B-54 (hex) HUAWEI TECHNOLOGIES CO.,LTD
101B54 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1-4,Huawei Industrial Base,Bantian,Longgang
ShenZhen GuangDong 518129
CN

7C-BA-CC (hex) IEEE Registration Authority
7CBACC (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

94-F1-28 (hex) Hewlett Packard Enterprise
94F128 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville 95747
US

54-02-37 (hex) Teltronic AG
540237 (base 16) Teltronic AG
Gewerbestrasse 9
Biberist 4562
CH

E0-10-7F (hex) Ruckus Wireless
E0107F (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

C4-01-7C (hex) Ruckus Wireless
C4017C (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA
94089
US

40-42-29 (hex) Layer3TV, Inc
404229 (base 16) Layer3TV, Inc
1660 Wynkoop St - Suite 800
Denver CO 80202
US

F8-1D-90 (hex) Solidwintech
F81D90 (base 16) Solidwintech
6th Floor, SOLiD Space 220 Pangyoyeok-ro, Bundang-gu
Seongnam-si Gyeongi-do 13493
KR

B0-EA-BC (hex) ASKEY COMPUTER CORP
B0EABC (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

94-C6-91 (hex) EliteGroup Computer Systems Co., LTD
94C691 (base 16) EliteGroup Computer Systems Co., LTD
No.239, Sec. 2, TiDing Blvd. Nei-Hu Dist.
Taipei Taiwan 11439
TW

3C-F5-91 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
3CF591 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

60-21-01 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
602101 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

7C-EB-7F (hex) Dmet Products Corp.
7CEB7F (base 16) Dmet Products Corp.
118, Fujisoft Akihabara Bldg 12F, Kanda Neribeicho 3
Chiyodaku Tokyo 1010022
JP

8C-85-80 (hex) Smart Innovation LLC
8C8580 (base 16) Smart Innovation LLC
7F,Tower B,Jianxing
ShenZhen GuangZhou 518055
CN

28-7B-09 (hex) zte corporation
287B09 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057

CN

A0-6A-44 (hex) Vizio, Inc
A06A44 (base 16) Vizio, Inc
39 Tesla
Irvine CA 92618
US

88-B1-11 (hex) Intel Corporate
88B111 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

DC-BE-7A (hex) Zhejiang Nurotron Biotechnology Co.
DCBE7A (base 16) Zhejiang Nurotron Biotechnology Co.
Building4, No.99 Xiaomao Rd
Hangzhou zhejiang 310011
CN

34-38-B7
(hex) HUMAX Co., Ltd.
3438B7 (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

78-B2-8D (hex) Beijing Tengling Technology CO.Ltd
78B28D (base 16) Beijing Tengling Technology CO.Ltd
beijing haidian shangdi san jie
beijing 100086
CN

78-45-01 (hex) Biamp Systems
784501 (base 16) Biamp Systems
9300 SW Gemini Dr
Beaverton OR 97008
US

54-D7-51 (hex) Proximus
54D751 (base 16) Proximus
Bld du Roi Albert II 27
Brussels 1030
BE

CC-06-77 (hex) Fiberhome Telecommunication Technologies Co.,LTD
CC0677 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road

Wuhan Hubei 430074
CN

14-78-0B (hex) Varex Imaging Deutschland AG
14780B (base 16) Varex Imaging Deutschland AG
Zweigniederlassung/Branch Walluf
In der Rehbach 22 Walluf 65396
DE

00-80-C2 (hex) IEEE 802.1 Chair
0080C2 (base 16) IEEE
802.1 Chair
c/o RAC Administrator , IEEE
Piscataway NJ 08554
US

EC-F3-42 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
ECF342 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

D4-25-8B (hex) Intel Corporate
D4258B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

04-1B-6D (hex) LG Electronics (Mobile Communications)
041B6D (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

F4-41-56 (hex) Arrikto Inc.
F44156 (base 16) Arrikto Inc.
3505 El Camino Real
Palo Alto CA 94306
US

98-6C-5C (hex) Jiangxi Gosun Guard Security Co.,Ltd
986C5C (base 16) Jiangxi Gosun Guard Security Co.,Ltd
2rd floor,8 building Middle,Zhongxing Software Park,Changdong Avenue,Nanchang High Tech Zone,Nanchang city,Jiangxi province
Nan Chang City Jiang Xi
Province 330000
CN

50-FF-20 (hex) Keenetic Limited
50FF20 (base 16) Keenetic Limited
1202, 12/F., AT TOWER, 180 ELECTRIC ROAD, NORTH POINT
HONG KONG 852
HK

68-8D-B6 (hex) AETEK INC.
688DB6 (base 16) AETEK INC.
3F, No.192, Lien-Cheng Rd., Chung-Ho,
New Taipei City 23553
TW

00-F8-2C (hex) Cisco Systems, Inc
00F82C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-C1-B1 (hex) Cisco Systems, Inc
00C1B1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F4-FC-B1 (hex) JJ Corp
F4FCB1 (base 16) JJ Corp
88 Soha-ro
Gwangmyeong-si 14316
KR

8C-39-5C (hex) Bit4id Srl
8C395C (base 16) Bit4id Srl
Via Diocleziano, 107
Naples 80125
IT

30-9C-23 (hex) Micro-Star INTL CO., LTD.
309C23 (base 16) Micro-Star INTL CO., LTD.
No.69, Lide St.,
New Taipei City Taiwan 235
TW

14-5E-45 (hex) Bamboo
Systems Group
145E45 (base 16) Bamboo Systems Group
Sheraton House, Castle Park
Cambridge CAMBRIDGESHIRE CB3 0AX
GB

E4-57-40 (hex) ARRIS Group, Inc.
E45740 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

AC-AF-B9 (hex) Samsung Electronics Co.,Ltd
ACAFB9 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

18-12-12 (hex) Cepton Technologies
181212 (base 16) Cepton Technologies
103 Bonaventura Dr
San Jose CA 95134
US

70-D9-23 (hex) vivo Mobile Communication Co., Ltd.
70D923 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'an DongGuan City,Guangdong 523860
CN

B8-3A-08 (hex) Tenda Technology Co.,Ltd.Dongguan branch
B83A08 (base 16) Tenda Technology Co.,Ltd.Dongguan branch
Room 79,Yuanyi Road,Dalang Town,Dongguan Guangdong 523770
Dongguan Guangdong 523770
CN

50-D3-7F (hex) Yu Fly Mikly
Way Science and Technology Co., Ltd.
50D37F (base 16) Yu Fly Mikly Way Science and Technology Co., Ltd.
6F, No. 1168 Huyi Road, Nanxiang Town Jiading District Shanghai 201800 CHINA
shanghai 201800
CN

B0-3D-96 (hex) Vision Valley FZ LLC
B03D96 (base 16) Vision Valley FZ LLC
Dubai Internet City
Dubai Dubai 500294
AE

F8-94-C2 (hex) Intel Corporate
F894C2 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000

MY

70-D3-79 (hex) Cisco Systems, Inc
70D379 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

10-05-01 (hex) PEGATRON CORPORATION
100501 (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

D8-C8-E9 (hex) Phicomm (Shanghai) Co., Ltd.
D8C8E9 (base 16) Phicomm (Shanghai) Co., Ltd.
3666 SiXian Rd.,Songjiang District
Shanghai Shanghai 201616
CN

7C-B9-60 (hex) Shanghai X-Cheng
telecom LTD
7CB960 (base 16) Shanghai X-Cheng telecom LTD
ROOM 401, Building 5, No.3000 LONG DONG Avenue, Pudong New District, Shanghai
Shanghai Shanghai 201203
CN

28-B4-48 (hex) HUAWEI TECHNOLOGIES CO.,LTD
28B448 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

70-DB-98 (hex) Cisco Systems, Inc
70DB98 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

30-D3-86 (hex) zte corporation
30D386 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

24-79-2A (hex) Ruckus Wireless
24792A (base 16) Ruckus Wireless
350 West Java Drive

Sunnyvale CA 94089
US

A4-9B-F5 (hex) Hybridserver Tec GmbH
A49BF5 (base 16) Hybridserver Tec GmbH
Gutenbergring 26a
Norderstedt Schleswig-Holstein 22848
DE

F4-70-AB (hex) vivo Mobile
Communication Co., Ltd.
F470AB (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

2C-5A-0F (hex) Cisco Systems, Inc
2C5A0F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

2C-31-24 (hex) Cisco Systems, Inc
2C3124 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

9C-C8-AE (hex) Becton, Dickinson and Company
9CC8AE (base 16) Becton, Dickinson and Company
1 Becton Drive
Franklin Lakes MA 07417-1880
US

B0-35-9F (hex) Intel Corporate
B0359F (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C0-D9-62 (hex) ASKEY COMPUTER CORP
C0D962 (base 16) ASKEY COMPUTER CORP
10F,NO.119,JIANKANG RD.,ZHONGHE DIST XINBEI CITY
taipei TAIPEI 23585
TW

F8-0B-CB (hex) Cisco Systems, Inc
F80BCB (base 16) Cisco Systems, Inc

80 West Tasman Drive
San
Jose CA 94568
US

08-02-8E (hex) NETGEAR
08028E (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

B4-7C-9C (hex) Amazon Technologies Inc.
B47C9C (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

50-3D-A1 (hex) Samsung Electronics Co.,Ltd
503DA1 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

50-32-37 (hex) Apple, Inc.
503237 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B0-48-1A (hex) Apple, Inc.
B0481A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B4-9C-DF (hex) Apple, Inc.
B49CDF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

48-BF-6B (hex) Apple, Inc.
48BF6B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

2C-FA-A2 (hex) Alcatel-Lucent Enterprise

2CFAA2 (base 16) Alcatel-Lucent
Enterprise
26801 West Agoura Rd
Calabasas CA 91301
US

E8-E7-32 (hex) Alcatel-Lucent Enterprise
E8E732 (base 16) Alcatel-Lucent Enterprise
26801 West Agoura Road
Calabasas CA 91301
US

7C-26-64 (hex) Sagemcom Broadband SAS
7C2664 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

AC-6B-0F (hex) CADENCE DESIGN SYSTEMS INC
AC6B0F (base 16) CADENCE DESIGN SYSTEMS INC
2670 SEELY AVE
SAN JOSE CA 95134
US

C8-B5-AD (hex) Hewlett Packard Enterprise
C8B5AD (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

7C-38-66 (hex) Texas Instruments
7C3866 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

0C-61-CF (hex) Texas Instruments
0C61CF (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

9C-1D-58 (hex) Texas Instruments
9C1D58 (base 16) Texas
Instruments
12500 TI Blvd
Dallas TX 75243
US

58-82-1D (hex) H. Schomäcker GmbH
58821D (base 16) H. Schomäcker GmbH
Heidestr. 183
Köln 51147
DE

D8-A1-05 (hex) Syslane, Co., Ltd.
D8A105 (base 16) Syslane, Co., Ltd.
#1201, Megacenter, SKntechno-park,, Sangdaeweon-dong, Joongweon-gu
Seongnam Outside the US, Mexico, or Canada 462-721
KR

3C-05-18 (hex) Samsung Electronics Co.,Ltd
3C0518 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

90-06-28 (hex) Samsung Electronics Co.,Ltd
900628 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

2C-1D-B8 (hex) ARRIS Group, Inc.
2C1DB8 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

9C-84-BF (hex) Apple, Inc.
9C84BF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B4-A9-FE (hex) GHIA Technology (Shenzhen)
LTD
B4A9FE (base 16) GHIA Technology (Shenzhen) LTD
RM 1606, BLDG 3rd, COFCO Clouds Mansion
Shenzhen 518101
CN

F0-97-E5 (hex) TAMIO, INC
F097E5 (base 16) TAMIO, INC
12F-2, No.33, Sec. 1 , Mingsheng Rd.,Banqiao Dist
New Taipei City 22069

TW

4C-1A-3D (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
4C1A3D (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

1C-A0-D3 (hex) IEEE Registration Authority
1CA0D3 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

9C-FC-D1 (hex) Aetheris Technology (Shanghai) Co., Ltd.
9CFCD1 (base 16) Aetheris Technology (Shanghai) Co., Ltd.
Room 225 Building No. 8, 433 Yuyuan Road
Shanghai Shanghai 200040
CN

BC-A0-42 (hex) SHANGHAI FLYCO ELECTRICAL APPLIANCE CO.,LTD
BCA042 (base 16) SHANGHAI FLYCO ELECTRICAL APPLIANCE CO.,LTD
No.555,Guang Fu
Lin east Road,Songjiang District
Shanghai Shanghai 201613
CN

CC-CE-1E (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
CCCE1E (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

0C-F4-D5 (hex) Ruckus Wireless
0CF4D5 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

00-11-1B (hex) Targa Systems Div L-3 Communications
00111B (base 16) Targa Systems Div L-3 Communications
2081 Merivale Rd
Ottawa Ont K2G 1G9
CA

68-54-C1 (hex) ColorTokens, Inc.
6854C1 (base 16) ColorTokens, Inc.
2101 Tasman Dr. Suite 200A

Santa Clara CA 95054
US

34-6E-9D (hex) Ericsson AB
346E9D (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

F4-DC-41 (hex) YOUNGZONE CULTURE (SHANGHAI) CORP
F4DC41 (base 16) YOUNGZONE CULTURE (SHANGHAI) CORP
7-8th floor, #1 Building, 1006 Jinshajiang Road
Shanghai
Shanghai 200062
CN

00-0F-4F (hex) PCS Systemtechnik GmbH
000F4F (base 16) PCS Systemtechnik GmbH
66 Hillside Rd
Auckland 1310
NZ

6C-75-0D (hex) WiFiSONG
6C750D (base 16) WiFiSONG
Rm. 605, Building 3, No. 75 Wenyi West Road
Hangzhou Zhejiang 310012
CN

38-05-AC (hex) Piller Group GmbH
3805AC (base 16) Piller Group GmbH
Abgunst 24
Osterode 37520
DE

BC-3F-8F (hex) HUAWEI TECHNOLOGIES CO.,LTD
BC3F8F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

14-30-04 (hex) HUAWEI TECHNOLOGIES CO.,LTD
143004 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

38-AA-3C (hex) SAMSUNG ELECTRO MECHANICS CO., LTD.
38AA3C (base 16) SAMSUNG ELECTRO MECHANICS CO., LTD.

314, Maetan3-Dong, Yeongtong-Gu
Suwon 443-743
US

50-A4-D0 (hex) IEEE
Registration Authority
50A4D0 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

80-00-10 (hex) AT&T
800010 (base 16) AT&T
3300 E Renner Road
Richardson TX 75082
US

0C-3C-CD (hex) Universal Global Scientific Industrial Co., Ltd.
0C3CCD (base 16) Universal Global Scientific Industrial Co., Ltd.
141, Lane 351, Taiping Road, Sec.1,Tsao Tuen
Nan-Tou Taiwan 54261
TW

14-AB-C5 (hex) Intel Corporate
14ABC5 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-24-F1 (hex) Shenzhen Fanhai Sanjiang Electronics Co., Ltd.
0024F1 (base 16) Shenzhen Fanhai Sanjiang Electronics Co., Ltd.
3Floor-Guangcai Xintiandi Building,Nanshan Rd,Nanshan,
Shenzhen Guangdong 518054
CN

A8-0C-CA (hex) Shenzhen Sundray Technologies Company Limited
A80CCA (base 16) Shenzhen Sundray Technologies Company Limited
6th Floor,Block A1, Nanshan iPark,
No.1001 XueYuan Road, Nanshan District
Shenzhen Guangdong 518057
CN

50-D2-13 (hex) CviLux Corporation
50D213 (base 16) CviLux Corporation
9F,No.9,Lane 3,Sec.1,Chung-Cheng East Road, Tamshui
New Taipei City 25147
TW

00-1E-29 (hex) Hypertherm Inc
001E29 (base 16) Hypertherm Inc
15 Great Hollow Rd
Hanover NH 03755
US

7C-C6-C4 (hex) Kolff Computer Supplies b.v.
7CC6C4 (base 16) Kolff Computer Supplies b.v.
Kuipershaven 22
Dordrecht Zuid-Holland 3311 AL
NL

C4-83-6F (hex) Ciena Corporation
C4836F (base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

50-04-B8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
5004B8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-03-02 (hex) Charles Industries, Ltd.
000302 (base 16) Charles Industries, Ltd.
5600 Apollo Drive
Rolling Meadows IL 60008
US

5C-FF-35
(hex) Wistron Corporation
5CFF35 (base 16) Wistron Corporation
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221
TW

78-F2-9E (hex) PEGATRON CORPORATION
78F29E (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

64-77-7D (hex) Hitron Technologies. Inc
64777D (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

60-D2-62 (hex) Tzukuri Pty Ltd
60D262 (base 16) Tzukuri Pty Ltd
6 Lenthall Street
Kensington NSW 2033
AU

14-2F-FD (hex) LT SECURITY INC
142FFD (base 16) LT SECURITY INC
18738 SAN JOSE AVE
CITY OF INDUSTRY CA 91748
US

00-D0-B2 (hex) Xiotech Corporation
00D0B2 (base 16) Xiotech Corporation
6455 FLYING CLOUD DRIVE
EDEN PRAIRIE MN 55344
US

9C-50-EE (hex) Cambridge Industries(Group) Co.,Ltd.
9C50EE
(base 16) Cambridge Industries(Group) Co.,Ltd.
5/F,Building 8, 2388 ChenHang Road, MinHang District
shanghai 201114
CN

40-ED-98 (hex) IEEE Registration Authority
40ED98 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

AC-DC-E5 (hex) Procter & Gamble Company
ACDCE5 (base 16) Procter & Gamble Company
2 Procter & Gamble Plaza
Cincinnati OH 45202
US

00-B3-62 (hex) Apple, Inc.
00B362 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E4-E4-AB (hex) Apple, Inc.
E4E4AB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

54-FA-96 (hex) Nokia Solutions and Networks GmbH & Co. KG
54FA96 (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

60-33-4B (hex) Apple, Inc.
60334B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C8-91-F9 (hex) Sagemcom
Broadband SAS
C891F9 (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
Rueil Malmaison HAUTS DE SEINE 92848
FR

84-04-D2 (hex) Kirale Technologies SL
8404D2 (base 16) Kirale Technologies SL
General Vara de Rey 9, 5B
Logrono La Rioja 26001
ES

38-AF-D7 (hex) FUJITSU LIMITED
38AFD7 (base 16) FUJITSU LIMITED
403, Kosugi-cho 1-chome, Nakahara-ku
Kawasaki Kanagawa 211-0063
JP

28-99-3A (hex) Arista Networks
28993A (base 16) Arista Networks
5453 Great America Parkway
Santa Clara CA 95054
US

60-42-7F (hex) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
60427F (base 16) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
Unit East Block22-24/F,Skyworth semiconductor design Bldg., Gaoxin Ave.4.S.,Nanshan District,Shenzhen,China
SHENZHEN GUANGDONG 518057
CN

BC-A8-A6 (hex) Intel Corporate
BCA8A6 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3

Kulim Kedah 09000
MY

74-FF-4C
(hex) Skyworth Digital Technology(Shenzhen) Co.,Ltd
74FF4C (base 16) Skyworth Digital Technology(Shenzhen) Co.,Ltd
7F,Block A,Skyworth Building,
Shenzhen Guangdong 518057
CN

A0-2C-36 (hex) FN-LINK TECHNOLOGY LIMITED
A02C36 (base 16) FN-LINK TECHNOLOGY LIMITED
A Building,HuiXin industial park,No 31, YongHe road, Fuyong town, Bao'an District
SHENZHEN GUANGDONG 518100
CN

F4-8C-50 (hex) Intel Corporate
F48C50 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

DC-D2-55 (hex) Kinpo Electronics, Inc.
DCD255 (base 16) Kinpo Electronics, Inc.
No.147, Sec. 3, Beishen Rd
Shenkeng Dist. New Taipei City 222
TW

64-EB-8C (hex) Seiko Epson Corporation
64EB8C (base 16) Seiko Epson Corporation
80 Harashinden
Shiojiri-shi Nagano-ken 399-0785
JP

00-13-51 (hex) Niles Audio Corporation
001351 (base 16) Niles Audio Corporation
5919 Sea Otter Place
Carlsbad
CA 92010
US

00-03-20 (hex) Xpeed, Inc.
000320 (base 16) Xpeed, Inc.
99 W. Tasman Drive
San Jose CA 95134
US

AC-1F-6B (hex) Super Micro Computer, Inc.

AC1F6B (base 16) Super Micro Computer, Inc.
980 Rock Ave
San Jose CA 95131
US

50-8A-0F (hex) SHENZHEN FISE TECHNOLOGY HOLDING CO.,LTD.
508A0F (base 16) SHENZHEN FISE TECHNOLOGY HOLDING CO.,LTD.
No.6 Building, Longfu Industrial Area, Huarong Road, Tongsheng Community, Dalang Street, Longhua New District
Shenzhen Guangdong 518000
CN

7C-CB-E2 (hex) IEEE Registration Authority
7CCBE2 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

A8-A5-E2 (hex) MSF-Vathauer Antriebstechnik GmbH & Co KG
A8A5E2 (base 16) MSF-Vathauer Antriebstechnik GmbH & Co KG
Am Hessentuch 6-8
Detmold Nordrhein-Westfalen 32758
DE

C0-28-8D (hex) Logitech, Inc
C0288D (base 16) Logitech, Inc
4700 NW Camas Meadows
Drive
Camas WA 98607
US

6C-EC-5A (hex) Hon Hai Precision Ind. CO.,Ltd.
6CEC5A (base 16) Hon Hai Precision Ind. CO.,Ltd.
B22 Building, NO.52,Tongle Road, Foxconn Industrial Park, District Jiangnan, Nanning, Guangxi, China
Nanning Guangxi 530031
CN

44-C3-46 (hex) HUAWEI TECHNOLOGIES CO.,LTD
44C346 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

30-74-96 (hex) HUAWEI TECHNOLOGIES CO.,LTD
307496 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

70-8A-09 (hex) HUAWEI TECHNOLOGIES CO.,LTD
708A09 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

18-06-75 (hex) Dilax Intelcom GmbH
180675 (base 16) Dilax Intelcom GmbH
Alt-Moabit 96b
Berlin 10559
DE

00-0F-C2 (hex) Uniwell
Corporation
000FC2 (base 16) Uniwell Corporation
5-25, 3-chome, Tenma, Kita-ku
Osaka 530-0043
JP

CC-C5-EF (hex) Co-Comm Servicios Telecomunicaciones S.L.
CCC5EF (base 16) Co-Comm Servicios Telecomunicaciones S.L.
Lisboa, 20 Las Rozas
Madrid Madrid 28232
ES

90-02-A9 (hex) Zhejiang Dahua Technology Co., Ltd.
9002A9 (base 16) Zhejiang Dahua Technology Co., Ltd.
NO.1199 BinAn Road
Hangzhou Zhejiang 310053
CN

E8-9E-B4 (hex) Hon Hai Precision Ind. Co.,Ltd.
E89EB4 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

D4-6A-6A (hex) Hon Hai Precision Ind. Co.,Ltd.
D46A6A (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

98-FD-74 (hex) ACT.CO.LTD
98FD74 (base 16) ACT.CO.LTD
3-RD Floor 93, Sanbon-ro
Gunpo-si Gyeonggi-do 15849

KR

E0-50-8B (hex) Zhejiang
Dahua Technology Co., Ltd.
E0508B (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

00-00-64 (hex) Yokogawa Digital Computer Corporation
000064 (base 16) Yokogawa Digital Computer Corporation
Shinjuku MIDWEST Bldg.4-30-3
Yoyogi Shibuya-ku, Tokyo 151-0053
JP

D0-F7-3B (hex) Helmut Mauell GmbH Werk Weida
D0F73B (base 16) Helmut Mauell GmbH Werk Weida
Am Rosenhügel 1-7
Velbert 42553
DE

00-0E-58 (hex) Sonos, Inc.
000E58 (base 16) Sonos, Inc.
614 Chapala St
Santa Barbara CA 93101
US

0C-49-33 (hex) Sichuan Jiuzhou Electronic Technology Co., Ltd.
0C4933 (base 16) Sichuan Jiuzhou Electronic Technology Co., Ltd.
No. 259, Jiuzhou Road
Mianyang City Sichuan Province 621000
CN

9C-1E-95 (hex) Actiontec Electronics, Inc
9C1E95 (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

64-DB-43
(hex) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
64DB43 (base 16) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
No.19, Gaoxin 4th Road, Wuhan East Lake High-tech Zone, Wuhan
Wuhan Hubei 430000
CN

68-AF-13 (hex) Futura Mobility
68AF13 (base 16) Futura Mobility

515 PENNSYLVANIA AVE
FORT WASHINTON PA 19034
US

68-1A-B2 (hex) zte corporation
681AB2 (base 16) zte corporation
12/F.,zte R&D building,kejinan Road,
shenzhen guangdong 518057
CN

7C-EB-AE (hex) Ridgeline Instruments
7CEBAE (base 16) Ridgeline Instruments
4803 Innovation Drive, Suite 3B
Fort Collins CO 80525
US

00-25-90 (hex) Super Micro Computer, Inc.
002590 (base 16) Super Micro Computer, Inc.
980 Rock Avenue
San Jose California 95131
US

00-FD-45 (hex) Hewlett Packard Enterprise
00FD45 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA
95747
US

24-C1-BD (hex) CRRC DALIAN R&D CO.,LTD.
24C1BD (base 16) CRRC DALIAN R&D CO.,LTD.
No.1 Haoyang North Street,Lvshun Economic Deveopment Zone
Dalian Liaoning 116052
CN

00-A2-EE (hex) Cisco Systems, Inc
00A2EE (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-59-DC (hex) Cisco Systems, Inc
0059DC (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

C8-D3-FF (hex) Hewlett Packard

C8D3FF (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

C4-BE-84 (hex) Texas Instruments
C4BE84 (base 16) Texas Instruments
12500 TI Blvd
Dallas 75243
US

F4-F5-24 (hex) Motorola Mobility LLC, a Lenovo Company
F4F524 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

00-0B-2E (hex) Cal-Comp Electronics & Communications Company Ltd.
000B2E (base
16) Cal-Comp Electronics & Communications Company Ltd.
No.147, Sec. 3, Beishen Rd
Shenkeng Dist New Taipei City ---
TW

48-65-EE (hex) IEEE Registration Authority
4865EE (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

F4-CA-E5 (hex) FREEBOX SAS
F4CAE5 (base 16) FREEBOX SAS
8 rue de la Ville l'Eveque
PARIS IdF 75008
FR

00-BB-C1 (hex) CANON INC.
00BBC1 (base 16) CANON INC.
30-2 Shimomaruko 3-chome,
Ohta-ku Tokyo 146-8501
JP

00-13-A5 (hex) General Solutions, LTD.
0013A5 (base 16) General Solutions, LTD.
5902 Sovereign Drive
Houston Texas 77036
US

50-98-F3 (hex) Rheem Australia Pty Ltd
5098F3 (base 16) Rheem Australia Pty Ltd
1 Alan Street
Rydalmere NSW 2116
AU

50-6B-8D (hex) Nutanix
506B8D (base 16) Nutanix
1740 Technology Drive Ste #150
San Jose CA 95110
US

00-38-DF (hex) Cisco Systems, Inc
0038DF (base
16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

9C-3D-CF (hex) NETGEAR
9C3DCF (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

7C-26-34 (hex) ARRIS Group, Inc.
7C2634 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

40-F4-13 (hex) Rubezh
40F413 (base 16) Rubezh
Ulyanovskaya str. 28
Saratov 410056
RU

90-00-4E (hex) Hon Hai Precision Ind. Co.,Ltd.
90004E (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

24-88-94 (hex) shenzhen lensun Communication Technology LTD
248894 (base 16) shenzhen lensun Communication Technology LTD
RM 201, Block 19, Zhiheng industry Park, Nantou Check point
Shenzhen Guangdong 518000
CN

EC-10-7B (hex) Samsung Electronics Co.,Ltd
EC107B (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk
730-350
KR

B0-4B-BF (hex) PT HAN SUNG ELECTORONICS INDONESIA
B04BBF (base 16) PT HAN SUNG ELECTORONICS INDONESIA
JL.PALEM 1 BLOK DS-6
KAWASAN INDUSTRI BATIK LIPPO CIKARANG, DESA CIBATU, KECAMATAN CIKARANG SELATAN
BEKASI JAWA BARAT 17550
ID

CC-2D-83 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
CC2D83 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

00-15-FF (hex) Novatel Wireless Solutions, Inc.
0015FF (base 16) Novatel Wireless Solutions, Inc.
9710 Scranton Rd., Suite 200
San Diego CA 92121
US

D4-6E-0E (hex) TP-LINK TECHNOLOGIES CO.,LTD.
D46E0E (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

88-36-6C (hex) EFM Networks
88366C (base 16) EFM Networks
6F, Benposra II 1197-1 Bojeong Giheung
Gu
Yong In Kyunggi do 446913
KR

48-DA-96 (hex) Eddy Smart Home Solutions Inc.
48DA96 (base 16) Eddy Smart Home Solutions Inc.
1600-25 Sheppard Avenue West
Toronto Ontario M2N 6S6
CA

F0-74-E4 (hex) Thundercomm Technology Co., Ltd
F074E4 (base 16) Thundercomm Technology Co., Ltd

Building NO.4, 99# Xiantao Data Valley Zhonglu, Yubei District, Chongqing, China
chongqing 404100
CN

A0-72-2C (hex) HUMAX Co., Ltd.
A0722C (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

C8-3D-D4 (hex) CyberTAN Technology Inc.
C83DD4 (base 16) CyberTAN Technology Inc.
99 Park Ave III, Hsinchu Science Park
Hsinchu 308
TW

E0-B9-4D (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
E0B94D (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268 Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

38-D5-47 (hex) ASUSTek
COMPUTER INC.
38D547 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

B4-D1-35 (hex) Cloudistics
B4D135 (base 16) Cloudistics
116000 Sunrise Valley Dr Suite 210
Reston VA 20190
US

F0-2F-A7 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F02FA7 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

18-DE-D7 (hex) HUAWEI TECHNOLOGIES CO.,LTD
18DED7 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

1C-23-2C (hex) Samsung Electronics Co.,Ltd

1C232C (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

78-88-8A (hex) CDR Sp. z o.o. Sp. k.
78888A (base 16) CDR Sp. z o.o. Sp. k.
Palki 15
Zory 44-240
PL

FC-D8-48 (hex) Apple, Inc.
FCD848 (base 16) Apple, Inc.
1
Infinite Loop
Cupertino CA 95014
US

E0-0D-B9 (hex) Cree, Inc.
E00DB9 (base 16) Cree, Inc.
4600 Silicon Drive
Durham NC 27703
US

FC-83-C6 (hex) N-Radio Technologies Co., Ltd.
FC83C6 (base 16) N-Radio Technologies Co., Ltd.
2#, 7F, Satellite Buiding, Keyuan Road, Nanshan
ShenZhen GuangDong 518000
CN

DC-0D-30 (hex) Shenzhen Feasycom Technology Co., Ltd.
DC0D30 (base 16) Shenzhen Feasycom Technology Co., Ltd.
#2004, Huichao Science & Technology Building, Jinhai Road, Xixiang
Shenzhen Guangdong 18000
CN

F0-AC-D7 (hex) IEEE Registration Authority
F0ACD7 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

00-21-D2 (hex) Samsung Electronics Co.,Ltd
0021D2 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-21-D1 (hex) Samsung Electronics Co.,Ltd
0021D1 (base 16) Samsung Electronics Co.,Ltd
#94-1,
Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-1F-CC (hex) Samsung Electronics Co.,Ltd
001FCC (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A4-29-83 (hex) Boeing Defence Australia
A42983 (base 16) Boeing Defence Australia
GPO Box 767
Brisbane Queensland 4001
AU

EC-88-92 (hex) Motorola Mobility LLC, a Lenovo Company
EC8892 (base 16) Motorola Mobility LLC, a Lenovo Company
222 Merchandise Mart Plaza, Suite 1800
Chicago IL 60654
US

94-95-A0 (hex) Google, Inc.
9495A0 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

00-A6-CA (hex) Cisco Systems, Inc
00A6CA (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

D8-45-2B (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
D8452B (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang
11900
MY

E4-18-6B (hex) Zyxel Communications Corporation
E4186B (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300

TW

D4-1D-71 (hex) Palo Alto Networks
D41D71 (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

00-87-31 (hex) Cisco Systems, Inc
008731 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

88-DE-A9 (hex) Roku, Inc.
88DEA9 (base 16) Roku, Inc.
12980 Saratoga Ave
Saratoga CA 95070
US

00-4A-77 (hex) zte corporation
004A77 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

60-A1-0A (hex) Samsung Electronics Co.,Ltd
60A10A (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

8C-71-F8 (hex) Samsung Electronics Co.,Ltd
8C71F8 (base 16) Samsung Electronics
Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

CC-05-1B (hex) Samsung Electronics Co.,Ltd
CC051B (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

8C-77-12 (hex) Samsung Electronics Co.,Ltd
8C7712 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong

Gumi Gyeongbuk 730-350
KR

94-63-D1 (hex) Samsung Electronics Co.,Ltd
9463D1 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

1C-9D-3E (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
1C9D3E (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

74-87-A9 (hex) OCT Technology Co., Ltd.
7487A9 (base 16) OCT Technology Co., Ltd.
8F. -2, No. 94, Baojhong Rd. Sindian Dist.
New Taipei City 231
TW

2C-3F-0B (hex) Cisco Meraki
2C3F0B (base 16) Cisco Meraki
500 Terry A. Francois
Blvd
San Francisco null 94158
US

50-3F-98 (hex) CMITECH
503F98 (base 16) CMITECH
904-ho, 25, Simin-daero 248beon-gil, Dongan-gu
Anyang-si Gyeonggi-do 14067
KR

5C-49-7D (hex) Samsung Electronics Co.,Ltd
5C497D (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

98-23-4E (hex) Micromedia AG
98234E (base 16) Micromedia AG
Gartenweg 46
Buonas Zug 6343
CH

78-20-79 (hex) ID Tech
782079 (base 16) ID Tech

10721 Walker St
Cypress CA 90630
US

78-D6-F0 (hex) SAMSUNG ELECTRO MECHANICS CO., LTD.
78D6F0 (base 16) SAMSUNG ELECTRO MECHANICS CO., LTD.
Metan Dong 314, Youngtong Gu
Suwon Kyung-gi Do. 443-743
KR

78-25-AD (hex) Samsung Electronics Co.,Ltd
7825AD (base 16) Samsung Electronics Co.,Ltd
416, MAETAN-3DONG, PALDAL-GU
SUWON CITY KYUNGKI-DO 442-742
KR

EC-E0-9B (hex) Samsung Electronics Co.,Ltd
ECE09B
(base 16) Samsung Electronics Co.,Ltd
416, Maetan-3dong, Yeongtong-gu,
Suwon-City Gyeonggi-do 443-742
KR

00-16-32 (hex) Samsung Electronics Co.,Ltd
001632 (base 16) Samsung Electronics Co.,Ltd
416, METAN-3DONG,
SUWON KYUNGKI-DO 442-742
KR

0C-60-76 (hex) Hon Hai Precision Ind. Co.,Ltd.
0C6076 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

0C-EE-E6 (hex) Hon Hai Precision Ind. Co.,Ltd.
0CEEE6 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

E4-D5-3D (hex) Hon Hai Precision Ind. Co.,Ltd.
E4D53D (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

C0-14-3D (hex) Hon Hai Precision Ind. Co.,Ltd.

C0143D (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing
Chongqing 401332
CN

C0-18-85 (hex) Hon Hai Precision Ind. Co.,Ltd.
C01885 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

58-94-CF (hex) Vertex Standard LMR, Inc.
5894CF (base 16) Vertex Standard LMR, Inc.
4-8-8 Nakameguro
Meguro-ku Tokyo 153-8644
JP

20-F8-5E (hex) Delta Electronics
20F85E (base 16) Delta Electronics
252 Shangying Road
Taoyuan County Taiwan 33341
TW

E4-E0-C5 (hex) Samsung Electronics Co.,Ltd
E4E0C5 (base 16) Samsung Electronics Co.,Ltd
416, Maetan-3dong, Yeongtong-gu
Suwon Gyeonggi-do 443742
KR

20-D5-BF (hex) Samsung Electronics Co.,Ltd
20D5BF (base 16) Samsung Electronics Co.,Ltd
416, Maetan 3dong, Yeongtong-Gu
Suwon Gyeonggi-Do 443742
KR

00-23-E4 (hex) IPnect co. ltd.
0023E4 (base 16) IPnect co. ltd.
808 albatross B/D 237-18
Seoul 153-801
KR

70-D4-F2 (hex) RIM
70D4F2
(base 16) RIM
Phillip Street
Waterloo Ontario N2L 3W8
CA

00-16-DB (hex) Samsung Electronics Co.,Ltd
0016DB (base 16) Samsung Electronics Co.,Ltd
#94-1
Gumi-City Gyeong-Buk 730-350
KR

00-1E-E2 (hex) Samsung Electronics Co.,Ltd
001EE2 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C0-BD-D1 (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
C0BDD1 (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak
Bangpakong Chachoengsao 24180
TH

B4-79-A7 (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
B479A7 (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak
Bangpakong Chachoengsao 24180
TH

7C-11-CB (hex) HUAWEI TECHNOLOGIES CO.,LTD
7C11CB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

1C-25-E1 (hex) China Mobile IOT Company Limited
1C25E1
(base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area
Chongqing Chongqing 401336
CN

C0-F6-36 (hex) Hangzhou Kuaiyue Technologies, Ltd.
C0F636 (base 16) Hangzhou Kuaiyue Technologies, Ltd.
Dongguan Hitech Park, Building 1-805, 288 Qiuyi Rd, Bingjiang District
Hangzhou Zhejiang 310053
CN

BC-20-A4 (hex) Samsung Electronics Co.,Ltd
BC20A4 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350

KR

08-D4-2B (hex) Samsung Electronics Co.,Ltd
08D42B (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

78-9E-D0 (hex) Samsung Electronics Co.,Ltd
789ED0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B0-C4-E7 (hex) Samsung Electronics Co.,Ltd
B0C4E7 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C8-14-79 (hex) Samsung Electronics
Co.,Ltd
C81479 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-24-90 (hex) Samsung Electronics Co.,Ltd
002490 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-23-D7 (hex) Samsung Electronics Co.,Ltd
0023D7 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

54-9B-12 (hex) Samsung Electronics Co.,Ltd
549B12 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

FC-A1-3E (hex) Samsung Electronics Co.,Ltd
FCA13E (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong

Gumi Gyeongbuk 730-350
KR

A0-07-98 (hex) Samsung Electronics Co.,Ltd
A00798 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-1A-22 (hex) eQ-3 Entwicklung GmbH
001A22 (base 16) eQ-3 Entwicklung GmbH
Maiburger Str.
36
Leer Niedersachsen D-26789
DE

1C-AF-05 (hex) Samsung Electronics Co.,Ltd
1CAF05 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

24-C6-96 (hex) Samsung Electronics Co.,Ltd
24C696 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

94-D7-71 (hex) Samsung Electronics Co.,Ltd
94D771 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E8-4E-84 (hex) Samsung Electronics Co.,Ltd
E84E84 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B0-DF-3A (hex) Samsung Electronics Co.,Ltd
B0DF3A (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

80-57-19 (hex) Samsung Electronics Co.,Ltd
805719 (base 16) Samsung Electronics Co.,Ltd

#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

34-BE-00 (hex) Samsung Electronics
Co.,Ltd
34BE00 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

78-52-1A (hex) Samsung Electronics Co.,Ltd
78521A (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-1F-CD (hex) Samsung Electronics Co.,Ltd
001FCD (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

38-EC-E4 (hex) Samsung Electronics Co.,Ltd
38ECE4 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

94-51-03 (hex) Samsung Electronics Co.,Ltd
945103 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

5C-E8-EB (hex) Samsung Electronics Co.,Ltd
5CE8EB (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

24-0D-C2 (hex) TCT mobile ltd
240DC2 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai,
Hi-Tech District
Hui Zhou Guang Dong 516006
CN

04-FE-A1 (hex) Fihonest communication co.,Ltd
04FEA1 (base 16) Fihonest communication co.,Ltd
Room902,Park road,Zhixing business-building
Dongguan Guangdong 523560
CN

EC-8C-A2 (hex) Ruckus Wireless
EC8CA2 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

EC-8E-AE (hex) Nagravision SA
EC8EAE (base 16) Nagravision SA
Route de Geneve 22-24, PO 7980
Cheseaux Vaud 1033
CH

E0-E7-BB (hex) Nureva, Inc.
E0E7BB (base 16) Nureva, Inc.
1000, 1221 8th Street SW
Calgary AB T2R 0L4
CA

54-6C-0E (hex) Texas Instruments
546C0E (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

A0-43-DB (hex) Sitael S.p.A.
A043DB (base 16) Sitael S.p.A.
Via San Sabino, 21
Mola di Bari BA 70042
IT

70-85-C6 (hex) ARRIS Group, Inc.
7085C6 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San
Diego CA 92121
US

54-E2-E0 (hex) ARRIS Group, Inc.
54E2E0 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

34-7A-60 (hex) ARRIS Group, Inc.
347A60 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1C-C3 (hex) ARRIS Group, Inc.
001CC3 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

20-BB-C6 (hex) Jabil Circuit Hungary Ltd.
20BBC6 (base 16) Jabil Circuit Hungary Ltd.
Huszár Andor 1.
Tiszaújváros H-3580
HU

00-B0-B3 (hex) XSTREAMIS PLC
00B0B3 (base 16) XSTREAMIS PLC
Magdalen Centre
Oxford 0X4 4GA 0000
GB

00-23-63 (hex) Zhuhai Raysharp Technology Co.,Ltd
002363 (base 16) Zhuhai Raysharp Technology Co.,Ltd
No.119 of Huawei Road, Qianshan Science & Technology Park,
Zhuhai Guangdong 519070
CN

00-90-58 (hex) Ultra Electronics Command & Control Systems
009058 (base 16) Ultra
Electronics Command & Control Systems
Knaves Beech Business Centre
Hemel Hemstead Herts England HP2 7BW
GB

00-1C-FD (hex) Universal Electronics, Inc.
001CFD (base 16) Universal Electronics, Inc.
6101 Gateway Drive
Cypress 90630
US

00-10-87 (hex) XSTREAMIS PLC
001087 (base 16) XSTREAMIS PLC
OXFORD SCIENCE PARK
OXFORD 0X4 4GA 00000

US

AC-48-2D (hex) Ralinwi Nanjing Electronic Technology Co., Ltd.
AC482D (base 16) Ralinwi Nanjing Electronic Technology Co., Ltd.
3rd Floor, Building B,R&D Block 3, Xuzhuang Software Park, No. 699-27, Xuanwu Avenue
Nanjing Jiangsu 210046
CN

B8-00-18 (hex) Htel
B80018 (base 16) Htel
Dunchon-dearo, Jungwon-gu
Seongnam-si Gyeonggi-do 13229
KR

74-72-B0 (hex) Guangzhou Shiyuan Electronics Co., Ltd.
7472B0 (base 16) Guangzhou Shiyuan Electronics Co., Ltd.
No.6, 4th Yunpu Road, Yunpu Industry District
Guangzhou Guangdong 510530
CN

DC-1A-01
(hex) Ecoliv Technology (Shenzhen) Ltd.
DC1A01 (base 16) Ecoliv Technology (Shenzhen) Ltd.
B-734, Tianhui building, Longhua Street, Pine Road, Longhua District
Shenzhen Guangdong 518109
CN

08-00-87 (hex) Xyplex, Inc.
080087 (base 16) Xyplex, Inc.
295 FOSTER STREET
LITTLETON MA 01460
US

00-54-9F (hex) Avaya Inc
00549F (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

04-9F-CA (hex) HUAWEI TECHNOLOGIES CO.,LTD
049FCA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

50-01-6B (hex) HUAWEI TECHNOLOGIES CO.,LTD
50016B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park

Dongguan 523808
CN

00-00-1B (hex) Novell, Inc.
00001B (base 16) Novell, Inc.
122 EAST 1700 SOUTH
PROVO UT 84606
US

00-04-DC (hex) Nortel Networks
0004DC
(base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-0C-F7 (hex) Nortel Networks
000CF7 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-0F-CD (hex) Nortel Networks
000FCD (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

28-24-FF (hex) Wistron Neweb Corporation
2824FF (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

38-25-6B (hex) Microsoft Mobile Oy
38256B (base 16) Microsoft Mobile Oy
Keilalahdentie 4
Espoo 02150
FI

20-3A-EF (hex) Sivantos GmbH
203AEF (base 16) Sivantos GmbH
Henri-Dunant-Strasse 100
Erlangen Bavaria 91058
DE

00-59-79 (hex) Networked Energy Services
005979 (base 16) Networked Energy Services

5215 Hellyer Avenue
San Jose CA 95138
US

D8-47-10 (hex) Sichuan Changhong Electric Ltd.
D84710 (base 16) Sichuan
Changhong Electric Ltd.
35 East Mianxing Road,High-Tech Park,
MianYang SiChuan 621000
CN

00-19-72 (hex) Plexus (Xiamen) Co.,ltd.
001972 (base 16) Plexus (Xiamen) Co.,ltd.
No.6 Xiangxing 2 Road
Xiamen Fujian 361006
CN

4C-B2-1C (hex) Maxphotonics Co.,Ltd
4CB21C (base 16) Maxphotonics Co.,Ltd
Maxphotonics Industrial Park,Third Furong Road,Furong Industrial Area,Shajing,BaoAn
ShenZhen GuangDong 518125
CN

20-5E-F7 (hex) Samsung Electronics Co.,Ltd
205EF7 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

14-1F-78 (hex) Samsung Electronics Co.,Ltd
141F78 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-23-47 (hex) ProCurve Networking by HP
002347 (base 16) ProCurve Networking by HP
60 Alexandra Terrace
0000 118502
SG

00-24-A8 (hex) ProCurve Networking by HP
0024A8 (base 16) ProCurve Networking
by HP
60 Alexandra Terrace
0000 118502
SG

C0-91-34 (hex) ProCurve Networking by HP
C09134 (base 16) ProCurve Networking by HP
60 Alexandra Terrace
0000 118502
SG

00-1C-EF (hex) Primax Electronics Ltd.
001CEF (base 16) Primax Electronics Ltd.
669, Ruey Kuang Road, Neihu
Taipei 114
TW

00-02-76 (hex) Primax Electronics Ltd.
000276 (base 16) Primax Electronics Ltd.
No. 669, Ruey Kuang Road, Neihu
Taipei Taiwan, R.O.C.
TW

A8-AD-3D (hex) Alcatel-Lucent Shanghai Bell Co., Ltd
A8AD3D (base 16) Alcatel-Lucent Shanghai Bell Co., Ltd
No. 389, Ningqiao Road, Pudong Jinqiao
Shanghai 201206
CN

24-AF-4A (hex) Alcatel-Lucent IPD
24AF4A (base 16) Alcatel-Lucent IPD
701 E. Middlefield Rd.
Mountain View CA 94043
US

7C-20-64 (hex) Alcatel-Lucent IPD
7C2064 (base 16) Alcatel-Lucent IPD
600 March Drive
Kanata Ontario K2K2E6
CA

48-F8-E1 (hex) Nokia
48F8E1
(base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

8C-90-D3 (hex) Nokia
8C90D3 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

20-7C-8F (hex) Quanta Microsystems,Inc.
207C8F (base 16) Quanta Microsystems,Inc.
No.5 Lane 91,Dongmei Rd.
Hsinchu 300
TW

00-0B-34 (hex) ShangHai Broadband Technologies CO.LTD
000B34 (base 16) ShangHai Broadband Technologies CO.LTD
17F,No.122,HuangXing Road
ShangHai 200090
CN

30-92-F6 (hex) SHANGHAI SUNMON COMMUNICATION TECHNOGY CO.,LTD
3092F6 (base 16) SHANGHAI SUNMON COMMUNICATION TECHNOGY CO.,LTD
Suite 604-605,Xing Yuan Technology Plaza
00000 ShangHai 200233
CN

00-1B-BA (hex) Nortel Networks
001BBA (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-19-69 (hex) Nortel Networks
001969 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-18-B0
(hex) Nortel Networks
0018B0 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-16-CA (hex) Nortel Networks
0016CA (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-14-78 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
001478 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
3/F,Bldg.R1-B,Hi-tech Industrial Park,
ShenZhen GuangDong 518057

CN

00-14-0E (hex) Nortel Networks
00140E (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-1E-1F (hex) Nortel Networks
001E1F (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

C4-4B-D1 (hex) Wallys Communications Teachnologies Co.,Ltd.
C44BD1 (base 16) Wallys Communications Teachnologies Co.,Ltd.
5-207, DongHong Pioneer Park, #99 YangYu Lane,
SuZhou JiangSu 215000
CN

6C-B9-C5 (hex) Delta Networks, Inc.
6CB9C5 (base 16) Delta Networks, Inc.
256 Yang Guang Street,
Neihu
Taipei Taiwan 11491
TW

00-28-F8 (hex) Intel Corporate
0028F8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

58-BC-8F (hex) Cognitive Systems Corp.
58BC8F (base 16) Cognitive Systems Corp.
560 Westmount Road North
Waterloo Ontario N2L 0A9
CA

D4-55-BE (hex) SHENZHEN FAST TECHNOLOGIES CO.,LTD
D455BE (base 16) SHENZHEN FAST TECHNOLOGIES CO.,LTD
Room 202,Building No.5,Section 30,No.2 of Kefa Road,Nanshan District,Shenzhen,P.R.China
Shenzhen Guangdong 518057
CN

B8-BB-23 (hex) Guangdong Nufront CSC Co., Ltd
B8BB23 (base 16) Guangdong Nufront CSC Co., Ltd
A403-414, Building 13, No.232 Waihuan East Road, Higher Education Mega Center, Guangdong 510006,

China
Guangzhou Guangdong 510006
CN

34-EA-34 (hex) HangZhou Gubei Electronics Technology Co.,Ltd
34EA34 (base 16) HangZhou Gubei Electronics Technology Co.,Ltd
Room 106, No.611 Jianghong
Road, Binjiang District, Hangzhou, Zhejiang, China
Hangzhou ZheJiang 310052
CN

EC-26-FB (hex) TECC CO.,LTD.
EC26FB (base 16) TECC CO.,LTD.
Guam-ro 15-gil, Buk-gu
Daegu 720-849
KR

44-DC-91 (hex) PLANEX COMMUNICATIONS INC.
44DC91 (base 16) PLANEX COMMUNICATIONS INC.
2F F-NISSAY Ebisu Bldg 3-16-3 Higashi,
Shibuya-ku Tokyo 150-0011
JP

E0-9D-B8 (hex) PLANEX COMMUNICATIONS INC.
E09DB8 (base 16) PLANEX COMMUNICATIONS INC.
Planex Volta Bldg., 2-11-9 Ebisu-Nishi,Shibuya-ku,
00000 1500021
US

00-0F-59 (hex) Phonak AG
000F59 (base 16) Phonak AG
Länggasse 17
Murten FR 3280
CH

74-B5-7E (hex) zte corporation
74B57E (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

00-20-F4 (hex) SPECTRIX CORPORATION
0020F4 (base 16) SPECTRIX CORPORATION
106 WILMOT ROAD, SUITE 250
DEERFIELD IL 60015-5150
US

04-EE-91

(hex) x-fabric GmbH
04EE91 (base 16) x-fabric GmbH
Nachodstraße 7
Berlin 10779
DE

C4-9A-02 (hex) LG Electronics (Mobile Communications)
C49A02 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

54-D2-72 (hex) Nuki Home Solutions GmbH
54D272 (base 16) Nuki Home Solutions GmbH
Muenzgrabenstrasse 92
Graz 8010
AT

B4-74-43 (hex) Samsung Electronics Co.,Ltd
B47443 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

30-76-6F (hex) LG Electronics (Mobile Communications)
30766F (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

A8-92-2C (hex) LG Electronics (Mobile Communications)
A8922C (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

F8-0C-F3 (hex) LG Electronics (Mobile
Communications)
F80CF3 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

00-1F-6B (hex) LG Electronics (Mobile Communications)
001F6B (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

00-26-E2 (hex) LG Electronics (Mobile Communications)
0026E2 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

E8-88-6C (hex) Shenzhen SC Technologies Co.,LTD
E8886C (base 16) Shenzhen SC Technologies Co.,LTD
4/FL,2Block,LianChuang Industrial Park,Bulan Road,Longgang
Shenzhen Guangdong Province 518112
CN

DC-35-F1 (hex) Positivo Tecnologia S.A.
DC35F1 (base 16) Positivo Tecnologia S.A.
João Bettega, 5200
Curitiba Paraná 81350-000
BR

00-24-FF (hex) QLogic Corporation
0024FF (base 16) QLogic Corporation
26650 Aliso Viejo Parkway
Aliso Viejo
CA 92656
US

00-1E-21 (hex) Qisda Corporation
001E21 (base 16) Qisda Corporation
157 Shan-Ying Road, Gueishan
Taoyuan 333
TW

00-03-9D (hex) Qisda Corporation
00039D (base 16) Qisda Corporation
157 Shan Ying Road
GueiShan Taoyuan 333
TW

00-08-0D (hex) Toshiba
00080D (base 16) Toshiba
2-9, Suehiro-cho,
Tokyo 198-8710
JP

00-0E-7B (hex) Toshiba
000E7B (base 16) Toshiba
2-9, Suehiro-Cho
Ome Tokyo 1988710

JP

E8-E0-B7 (hex) Toshiba
E8E0B7 (base 16) Toshiba
2-9,Suehiro-Cho
Ome Tokyo 1988710
JP

00-03-B2 (hex) Radware
0003B2 (base 16) Radware
8 Hamrpe Hochvim
000 0000
IL

00-A0-C6 (hex) Qualcomm Inc.
00A0C6 (base 16) Qualcomm Inc.
6455 LUSK BLVD
SAN DIEGO CA 92121
US

64-9C-81 (hex) Qualcomm Inc.
649C81 (base 16) Qualcomm Inc.
5665 Morehouse Drive
San Diego CA 92071
US

00-21-86 (hex) Universal Global
Scientific Industrial Co., Ltd.
002186 (base 16) Universal Global Scientific Industrial Co., Ltd.
141, Lane 351, Sec.1, Taiping Road,
NANTOU 54261
TW

18-39-19 (hex) Unicoi Systems
183919 (base 16) Unicoi Systems
410 Peachtree Pkwy
Cumming GA 30041
US

00-C0-E4 (hex) SIEMENS BUILDING
00C0E4 (base 16) SIEMENS BUILDING
TECHNOLOGIES, INC.
BUFFALO GROVE IL 60089
US

00-0D-10 (hex) Embedtronics Oy
000D10 (base 16) Embedtronics Oy
Leväsentie 23

Kuopio 70780
FI

FC-F6-47 (hex) Fiberhome Telecommunication Technologies Co.,LTD
FCF647 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan City Hubei Province 430074
CN

18-68-6A (hex) zte corporation
18686A (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

DC-44-27 (hex) IEEE Registration Authority
DC4427 (base 16) IEEE
Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

00-1A-6A (hex) Tranzas, Inc.
001A6A (base 16) Tranzas, Inc.
Queens tower C17
Yokohama Kanagawa-ken 220-6217
JP

BC-34-00 (hex) IEEE Registration Authority
BC3400 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

A4-71-74 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A47174 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F4-CB-52 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F4CB52 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B8-08-D7 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B808D7 (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-61-1E (hex) Wata Electronics Co.,Ltd.
94611E (base 16) Wata Electronics
Co.,Ltd.
No 142,South Tanshen Road, Tanzhou Town,Zhongshan City,Guangdong,China
Zhongshan Guangdong 528467
CN

A0-20-A6 (hex) Espressif Inc.
A020A6 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

58-52-8A (hex) Mitsubishi Electric Corporation
58528A (base 16) Mitsubishi Electric Corporation
2-7-3 Marunouchi Chiyoda-ku
Tokyo 100-8310
JP

68-07-15 (hex) Intel Corporate
680715 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

3C-B6-B7 (hex) vivo Mobile Communication Co., Ltd.
3CB6B7 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong 523860
CN

00-1F-A8 (hex) Smart Energy Instruments Inc.
001FA8 (base 16) Smart Energy Instruments Inc.
297 Lakeshore Road East
Oakville Ontario L6J 1J3
CA

00-0F-DB (hex) Westell Technologies Inc.
000FDB
(base 16) Westell Technologies Inc.
750 N Commons Dr
Aurora IL 60504
US

78-44-76 (hex) Zioncom Electronics (Shenzhen) Ltd.
784476 (base 16) Zioncom Electronics (Shenzhen) Ltd.
A1&A2 building,lantian technology park, xinyu road, xingqiao henggang block, shajing street, Baoan District
shenzhen guangdong 518000
CN

00-11-65 (hex) ZNYX Networks, Inc.
001165 (base 16) ZNYX Networks, Inc.
48421 Milmont Drive
Fremont CA 94538
US

3C-07-71 (hex) Sony Corporation
3C0771 (base 16) Sony Corporation
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

80-41-4E (hex) BBK EDUCATIONAL ELECTRONICS CORP.,LTD.
80414E (base 16) BBK EDUCATIONAL ELECTRONICS CORP.,LTD.
LiWu INDUSTRIAL PARK,Wusha,Chang'an
Dong Guan Guang Dong 523860
CN

24-94-42 (hex) OPEN ROAD SOLUTIONS , INC.
249442 (base 16) OPEN ROAD SOLUTIONS , INC.
88-13 SHUILI ROAD
HSINCHU 30059
TW

C4-64-13 (hex) Cisco
Systems, Inc
C46413 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-10-CA (hex) Telco Systems, Inc.
0010CA (base 16) Telco Systems, Inc.
15 Berkshire Road
Mansfield, MA 02048
US

00-E0-9E (hex) Quantum Corporation
00E09E (base 16) Quantum Corporation
500 McCarthy Boulevard
Milpitas CA 95035
US

00-0A-08 (hex) Alps Alpine
000A08 (base 16) Alps Alpine
20-1 Yoshima-Kogyodanchi
iwaki-city Fukushima 970-1192
JP

20-6A-8A (hex) Wistron Infocomm (Zhongshan) Corporation
206A8A (base 16) Wistron Infocomm (Zhongshan) Corporation
168# First Avenue,Kunshan Export Processing Zone
Kunshan Jiangsu 215300
CN

00-0A-68 (hex) Solarflare Communications Inc.
000A68 (base 16) Solarflare Communications Inc.
Suite 100, 7505 Irvine Center Drive
Irvine CA 92618
US

00-1E-C0 (hex) Microchip Technology Inc.
001EC0 (base 16) Microchip Technology Inc.
2355
W. Chandler Blvd.
Chandler AZ 85224
US

C4-F1-D1 (hex) BEIJING SOGOU TECHNOLOGY DEVELOPMENT CO., LTD.
C4F1D1 (base 16) BEIJING SOGOU TECHNOLOGY DEVELOPMENT CO., LTD.
SOHU.COM INTERNET PLAZA, NO.1 PARK, ZHONGGUANCHUN EAST ROAD. HAIDIAN DISTRICT
Beijing 100000
CN

38-BC-1A (hex) MEIZU Technology Co., Ltd.
38BC1A (base 16) MEIZU Technology Co., Ltd.
MEIZU Tech Bldg., Technology & Innovation Coast
Zhuhai Guangdong 519085
CN

EC-D6-8A (hex) Shenzhen JMicron Intelligent Technology Developmen
ECD68A (base 16) Shenzhen JMicron Intelligent Technology Developmen
Futian District, 13th Floor , Block B Building Tai
Shenzhen Guangdong Province 518040
CN

50-52-D2 (hex) Hangzhou Telin Technologies Co., Limited
5052D2 (base 16) Hangzhou Telin Technologies Co., Limited
8 floor,D Building,Paradise Software Park,No. 3 Xidoumen Road, Xihu District, Hangzhou
Hangzhou Zhejiang 310013

CN

90-EE-D9 (hex) UNIVERSAL
DE DESARROLLOS ELECTRÓNICOS, SA
90EED9 (base 16) UNIVERSAL DE DESARROLLOS ELECTRÓNICOS, SA
CRTA DE CASTELLAR, 298
TERRASSA BARCELONA 08226
ES

7C-57-4E (hex) COBI GmbH
7C574E (base 16) COBI GmbH
Solmsstrasse 4
Frankfurt am Main 60486
DE

04-56-04 (hex) Gionee Communication Equipment Co.,Ltd.
045604 (base 16) Gionee Communication Equipment Co.,Ltd.
21/F,Times Technology Building,No. 7028,Shennan Avenue,Futian District
Shenzhen 518000
CN

C8-AF-E3 (hex) Hefei Radio Communication Technology Co., Ltd
C8AFE3 (base 16) Hefei Radio Communication Technology Co., Ltd
No.108, YinXing Road, High-tech Development Zone
Hefei Anhui 230088
CN

94-59-07 (hex) Shanghai HITE-BELDEN Network Technology Co., Ltd.
945907 (base 16) Shanghai HITE-BELDEN Network Technology Co., Ltd.
No. 777, Xinjun Ring Road, Pujiang Hi-Tech Park, Minhang District
Shanghai Shanghai 201114
CN

00-18-48
(hex) Vecima Networks Inc.
001848 (base 16) Vecima Networks Inc.
150 Cardinal Place
Saskatoon SK S7L 6H7
CA

00-16-FB (hex) SHENZHEN MTC CO LTD
0016FB (base 16) SHENZHEN MTC CO LTD
5/F BenYuan Bldg,6015 ShenNan Road
ShenZhen GuangDong 518040
CN

74-CC-39 (hex) Fiberhome Telecommunication Technologies Co.,LTD
74CC39 (base 16) Fiberhome Telecommunication Technologies Co.,LTD

No.5 DongXin Road
Wuhan Hubei 430074
CN

34-0A-FF (hex) Qingdao Hisense Communications Co.,Ltd.
340AFF (base 16) Qingdao Hisense Communications Co.,Ltd.
Qianwangang Road 218
Qingdao Shandong 266510
CN

58-7E-61 (hex) Qingdao Hisense Communications Co.,Ltd.
587E61 (base 16) Qingdao Hisense Communications Co.,Ltd.
Qianwangang Road 218
Qingdao Shandong 266510
CN

C0-A1-A2 (hex) MarqMetrix
C0A1A2 (base 16) MarqMetrix
410 West Harrison ST #200
Seattle WA 98119
US

08-D0-B7 (hex) Qingdao
Hisense Communications Co.,Ltd.
08D0B7 (base 16) Qingdao Hisense Communications Co.,Ltd.
Qianwangang Road 218
Qingdao Shandong 266510
CN

00-FE-C8 (hex) Cisco Systems, Inc
00FEC8 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-25-3E (hex) Sensus Metering Systems
00253E (base 16) Sensus Metering Systems
10147 W. Emerald Street
Boise Idaho 83704
US

60-64-53 (hex) AOD Co.,Ltd.
606453 (base 16) AOD Co.,Ltd.
No. 13155, Yuqing Street, High-Technology Development Zone,
Weifang Shandong 261061
CN

6C-98-EB (hex) Riverbed Technology, Inc.

6C98EB (base 16) Riverbed Technology, Inc.
680 Folsom St
San Francisco CA 94107
US

00-9E-1E (hex) Cisco Systems, Inc
009E1E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

2C-36-A0 (hex) Capisco Limited
2C36A0 (base 16) Capisco Limited
PO Box 938
Auckland 0943
NZ

B0-B2-DC
(hex) Zyxel Communications Corporation
B0B2DC (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

CC-5D-4E (hex) Zyxel Communications Corporation
CC5D4E (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

40-4A-03 (hex) Zyxel Communications Corporation
404A03 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

C8-6C-87 (hex) Zyxel Communications Corporation
C86C87 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

E4-7B-3F (hex) BEIJING CO-CLOUD TECHNOLOGY LTD.
E47B3F (base 16) BEIJING CO-CLOUD TECHNOLOGY LTD.
903 RoomPower Create E No.1 Shangdi East Road
Beijing Beijing 100085
CN

54-ED-A3 (hex) Navdy, Inc.
54EDA3 (base 16) Navdy, Inc.
575 7th
Street
San Francisco CA 94103
US

10-BE-F5 (hex) D-Link International
10BEF5 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy, Singapore
Singapore Singapore 609917
SG

A0-41-5E (hex) Opsens Solution Inc.
A0415E (base 16) Opsens Solution Inc.
2014 rue Cyrille-Duquet, suite 125
Quebec QC G1N 4N6
CA

2C-5A-8D (hex) SYSTRONIK Elektronik u. Systemtechnik GmbH
2C5A8D (base 16) SYSTRONIK Elektronik u. Systemtechnik GmbH
Gewerbestrasse 57
ILLMENSEE 88636
DE

38-22-D6 (hex) Hangzhou H3C Technologies Co., Limited
3822D6 (base 16) Hangzhou H3C Technologies Co., Limited
310 Liuhe Road, Zhijiang Science Park
Hangzhou Zhejiang, 310053
CN

A8-60-B6 (hex) Apple, Inc.
A860B6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C4-B3-01 (hex) Apple, Inc.
C4B301 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E0-5F-45
(hex) Apple, Inc.
E05F45 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

48-3B-38 (hex) Apple, Inc.
483B38 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

1C-91-48 (hex) Apple, Inc.
1C9148 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

34-A2-A2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
34A2A2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

74-9D-8F (hex) HUAWEI TECHNOLOGIES CO.,LTD
749D8F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C8-64-C7 (hex) zte corporation
C864C7 (base 16) zte corporation
12/F.,zte R&D building,kejinan Road,
shenzhen guangdong 518057
CN

00-22-E7 (hex) WPS Parking Systems
0022E7 (base 16) WPS Parking Systems
Hoevenweg 11
Eindhoven Noord-Brabant
5652 AW
NL

0C-8A-87 (hex) AgLogica Holdings, Inc
0C8A87 (base 16) AgLogica Holdings, Inc
333 Research Ct NW Ste 230
Norcross GA 30092
US

B8-E7-79 (hex) 9Solutions Oy
B8E779 (base 16) 9Solutions Oy
Teknologiantie 2

Oulu 90590
FI

28-F3-66 (hex) Shenzhen Bilian electronic CO.,LTD
28F366 (base 16) Shenzhen Bilian electronic CO.,LTD
NO 268Fuqian Rd,Jutang Community,Guanlan town , LongHua new district,Shenzhen,518110,China.
Shenzhen 518110
CN

E0-A3-AC (hex) HUAWEI TECHNOLOGIES CO.,LTD
E0A3AC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

BC-75-74 (hex) HUAWEI TECHNOLOGIES CO.,LTD
BC7574 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

20-A6-80 (hex) HUAWEI TECHNOLOGIES CO.,LTD
20A680 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2
Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

88-28-B3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
8828B3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F8-23-B2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F823B2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

34-12-90 (hex) Treeview Co.,Ltd.
341290 (base 16) Treeview Co.,Ltd.
106/29 BANGLAMUNG
BANGLAMUNG CHONBURI 20150
TH

7C-FE-4E (hex) Shenzhen Safe vision Technology Co.,LTD
7CFE4E (base 16) Shenzhen Safe vision Technology Co.,LTD

Shenzhen ring view south road and 27 digital dragon industrial park industrial zone
shenzhen Guangdong province 518110
CN

64-4F-B0 (hex) Hyunjin.com
644FB0 (base 16) Hyunjin.com
Hyochang-dong 5-86, Yongsan-gu
Seoul 140-896
KR

00-E0-E6
(hex) INCAA Computers
00E0E6 (base 16) INCAA Computers
P.O. BOX 211
7300 AE APELDOORN na
NL

6C-3B-6B (hex) Routerboard.com
6C3B6B (base 16) Routerboard.com
Mikrotikls SIA
Riga Riga LV1009
LV

00-6C-BC (hex) Cisco Systems, Inc
006CBC (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

5C-70-A3 (hex) LG Electronics (Mobile Communications)
5C70A3 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

94-E8-C5 (hex) ARRIS Group, Inc.
94E8C5 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1D-08 (hex) Jiangsu Yinhe Electronics Co.,Ltd.
001D08 (base 16) Jiangsu Yinhe Electronics Co.,Ltd.
188 NANHUAN ROAD
ZHANGJIAGANG JIANGSU 215611
CN

48-51-B7 (hex) Intel Corporate

4851B7 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

90-5F-2E
(hex) TCT mobile ltd
905F2E (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

B4-B1-5A (hex) Siemens AG Energy Management Division
B4B15A (base 16) Siemens AG Energy Management Division
Humboldtstr. 59
Nurnberg Bavaria 90459
DE

00-A0-A4 (hex) Oracle Corporation
00A0A4 (base 16) Oracle Corporation
500 Oracle Parkway
Redwood Shores CA 94065
US

74-97-81 (hex) zte corporation
749781 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

9C-DF-03 (hex) Harman/Becker Automotive Systems GmbH
9CDF03 (base 16) Harman/Becker Automotive Systems GmbH
Becker-Göring-Straße 16
Karlsbad Baden-Württemberg 76307
DE

00-11-88 (hex) Enterasys
001188 (base 16) Enterasys
35 Industrial Way
Rochester NH 03867
US

00-01-F4 (hex) Enterasys
0001F4
(base 16) Enterasys
35 Industrial Way
Rochester NH 03867
US

00-10-9B (hex) Emulex Corporation
00109B (base 16) Emulex Corporation
3333 Susan Street
Costa Mesa CA 92626
US

A4-E5-97 (hex) Gessler GmbH
A4E597 (base 16) Gessler GmbH
Gutenbergring 14
Rodgau 63110
DE

A8-6B-AD (hex) Hon Hai Precision Ind. Co.,Ltd.
A86BAD (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

D8-0F-99 (hex) Hon Hai Precision Ind. Co.,Ltd.
D80F99 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

C8-9C-DC (hex) Elitegroup Computer Systems Co.,Ltd.
C89CDC (base 16) Elitegroup Computer Systems Co.,Ltd.
NO. 239, Sec. 2, Ti Ding Blvd.
Taipei 11493
TW

00-25-11 (hex) Elitegroup Computer Systems Co.,Ltd.
002511 (base 16) Elitegroup Computer Systems Co.,Ltd.
NO.
239, Sec. 2, Ti Ding Blvd.
Taipei Taiwan 11493
TW

44-87-FC (hex) Elitegroup Computer Systems Co.,Ltd.
4487FC (base 16) Elitegroup Computer Systems Co.,Ltd.
NO. 239, Sec. 2, Ti Ding Blvd.
Taipei Taiwan 11493
TW

00-24-65 (hex) Elentec
002465 (base 16) Elentec
401-13 Chunggye-Ri,Dongtan-Myun
Hwasung Kyunggi 445-811

KR

00-08-9F (hex) EFM Networks
00089F (base 16) EFM Networks
403, 4th floor Elegance 1 Bldg.
Sungnam-si Kyunggi-do 463-808
KR

00-1D-82 (hex) GN Netcom A/S
001D82 (base 16) GN Netcom A/S
Lautrupbjerg 7
Ballerup DK - 2750
DK

00-13-17 (hex) GN Netcom A/S
001317 (base 16) GN Netcom A/S
Metalbuen 66
Ballerup Skovlunde DK-2750
DK

00-14-2A (hex) Elitegroup Computer Systems Co.,Ltd.
00142A (base 16) Elitegroup Computer Systems Co.,Ltd.
No.22, Alley 38, Lane 91, Sec. 1,
Taipei 114
TW

00-11-5B (hex) Elitegroup Computer Systems Co.,Ltd.
00115B
(base 16) Elitegroup Computer Systems Co.,Ltd.
No.22, Alley 38, Lane 91, Sec. 1, Nei Hu
Taipei 114
TW

C0-3F-D5 (hex) Elitegroup Computer Systems Co.,Ltd.
C03FD5 (base 16) Elitegroup Computer Systems Co.,Ltd.
No. 239, Sec. 2, Ti-Ding Blvd
Taipei 11493
TW

EC-A8-6B (hex) Elitegroup Computer Systems Co.,Ltd.
ECA86B (base 16) Elitegroup Computer Systems Co.,Ltd.
NO. 239, Sec. 2, Ti Ding Blvd.
Taipei 11493
TW

00-50-FC (hex) Edimax Technology Co. Ltd.
0050FC (base 16) Edimax Technology Co. Ltd.
No. 278, Xinhu 1st Road

Taipei City Neihu Dist 248
TW

00-16-FA (hex) ECI Telecom Ltd.
0016FA (base 16) ECI Telecom Ltd.
30 Hasivim St.
Petah Tikva 49133
US

A0-82-AC (hex) Linear DMS Solutions Sdn. Bhd.
A082AC (base 16) Linear DMS Solutions Sdn. Bhd.
135, Jalan Utara
PENANG Pulau Pinang 11700
MY

A8-6A-C1 (hex) HanbitEDS Co., Ltd.
A86AC1 (base 16) HanbitEDS
Co., Ltd.
44-10, Techno 10-ro, Yuseong-gu
Daejeon Daejeon 34027
KR

D4-63-FE (hex) Arcadyan Corporation
D463FE (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

68-93-61 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
689361 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

A0-04-3E (hex) Parker Hannifin Manufacturing Germany GmbH & Co. KG
A0043E (base 16) Parker Hannifin Manufacturing Germany GmbH & Co. KG
Gutenbergstrasse 38
Kaarst Select State 41564
DE

C8-45-29 (hex) IMK Networks Co.,Ltd
C84529 (base 16) IMK Networks Co.,Ltd
201-Ho jungribjunja, 16-3bunji,
Seoul 143-816
KR

00-11-74 (hex) Mojo Networks, Inc.
001174 (base 16) Mojo Networks, Inc.

339 N.Bernardo Ave
Mountain View CA 94043
US

00-19-54 (hex) Leaf Corporation.
001954 (base 16) Leaf
Corporation.
Amuze 1F
Isehara City Kanagawa-Pref. 259-1117
JP

94-66-E7 (hex) WOM Engineering
9466E7 (base 16) WOM Engineering
13F., No. 192, Sec. 2, Zhongxing Rd., Xindian Dist.
New Taipei City Taiwan 231
TW

F8-A1-88 (hex) LED Roadway Lighting
F8A188 (base 16) LED Roadway Lighting
115 Chain Lake Dr.
Halifax NS B3S 1B3
CA

34-BF-90 (hex) Fiberhome Telecommunication Technologies Co.,LTD
34BF90 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan City Hubei Province 430074
CN

CC-B3-F8 (hex) FUJITSU ISOTEC LIMITED
CCB3F8 (base 16) FUJITSU ISOTEC LIMITED
135,Higashinozaki,Hobara-machi,
Date-shi Fukushima 960-0695
JP

E4-A4-71 (hex) Intel Corporate
E4A471 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

10-F0-05 (hex) Intel Corporate
10F005 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim
Kedah 09000
MY

00-BD-82 (hex) Shenzhen YOUHUA Technology Co., Ltd
00BD82 (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

4C-B8-B5 (hex) Shenzhen YOUHUA Technology Co., Ltd
4CB8B5 (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

70-85-C2 (hex) ASRock Incorporation
7085C2 (base 16) ASRock Incorporation
2F., No. 37, Sec. 2, Jhongyang S. Rd., Beitou District,
Taipei 112
TW

94-51-3D (hex) iSmart Alarm, Inc.
94513D (base 16) iSmart Alarm, Inc.
1290 Kifer Road Suite 306
Sunnyvale CA 94086
US

BC-15-AC (hex) Vodafone Italia S.p.A.
BC15AC (base 16) Vodafone Italia S.p.A.
Via Lorenteggio nr. 240
Milan Italy 20147
IT

EC-93-ED (hex) DDoS-Guard
LTD
EC93ED (base 16) DDoS-Guard LTD
goroda Volos, 6, 904
Rostov-on-Don 344010
RU

04-52-C7 (hex) Bose Corporation
0452C7 (base 16) Bose Corporation
The Mountain
Framingham MA 01701-9168
US

F0-27-45 (hex) F-Secure Corporation
F02745 (base 16) F-Secure Corporation
Tammasaarenkatu 7
Helsinki 00181
FI

54-D0-B4 (hex) Xiamen Four-Faith Communication Technology Co.,Ltd
54D0B4 (base 16) Xiamen Four-Faith Communication Technology Co.,Ltd
3rd Floor,No,44,GuanRi Road,Software Park,XiaMen
XiaMen Fujian 361000
CN

00-13-7C (hex) Kaicom co., Ltd.
00137C (base 16) Kaicom co., Ltd.
#109, Gayang Techno Town 1487, Gayang-dong,Kangso-gu
Seoul 157-810
KR

7C-47-7C (hex) IEEE Registration Authority
7C477C (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

F8-77-B8 (hex) Samsung Electronics Co.,Ltd
F877B8 (base 16) Samsung Electronics
Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

F0-D2-F1 (hex) Amazon Technologies Inc.
F0D2F1 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

14-D1-1F (hex) HUAWEI TECHNOLOGIES CO.,LTD
14D11F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

DC-09-4C (hex) HUAWEI TECHNOLOGIES CO.,LTD
DC094C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

1C-67-58 (hex) HUAWEI TECHNOLOGIES CO.,LTD
1C6758 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

24-BC-F8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
24BCF8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

DC-EE-06 (hex) HUAWEI
TECHNOLOGIES CO.,LTD
DCEE06 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E8-56-59 (hex) Advanced-Connectek Inc.
E85659 (base 16) Advanced-Connectek Inc.
No. 2,Alley 9, Lane 45, Baoxing Rd., Xiadian Dist.,
New Taipei City 231
TW

30-FC-68 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
30FC68 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

00-8A-96 (hex) Cisco Systems, Inc
008A96 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

BC-60-A7 (hex) Sony Interactive Entertainment Inc.
BC60A7 (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

64-CC-2E (hex) Xiaomi Communications Co Ltd
64CC2E (base 16) Xiaomi Communications Co Ltd
The
Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

88-01-F2 (hex) Vitec System Engineering Inc.
8801F2 (base 16) Vitec System Engineering Inc.

203203 Kita-shinagawa
Shinagawa-ku Tokyo 140-0001
JP

A8-E3-EE (hex) Sony Interactive Entertainment Inc.
A8E3EE (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

00-24-8D (hex) Sony Interactive Entertainment Inc.
00248D (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

00-04-1F (hex) Sony Interactive Entertainment Inc.
00041F (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

20-A9-0E (hex) TCT mobile ltd
20A90E (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

0C-A2-F4 (hex) Chameleon Technology (UK) Limited
0CA2F4
(base 16) Chameleon Technology (UK) Limited
Gardner House, Hornbeam Park Avenue
Hornbeam Park Harrogate HG2 8NA
GB

EC-43-8B (hex) YAPTV
EC438B (base 16) YAPTV
623 GangNamDa-Ro
Seocho-Gu Seoul 06524
KR

18-21-95 (hex) Samsung Electronics Co.,Ltd
182195 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

44-78-3E (hex) Samsung Electronics Co.,Ltd

44783E (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

14-C3-C2 (hex) K.A. Schmersal GmbH & Co. KG
14C3C2 (base 16) K.A. Schmersal GmbH & Co. KG
Möddinghofe 30
Wuppertal NRW 42279
DE

10-78-5B (hex) Actiontec Electronics, Inc
10785B (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

BC-44-B0 (hex) Elastifile
BC44B0 (base 16) Elastifile
Abba Even 8
Herzlia 4672526
IL

74-BF-B7 (hex) Nusoft Corporation
74BFB7
(base 16) Nusoft Corporation
3F.-1, No. 880, Zhongzheng Rd.,
Zhonghe Dist., New Taipei City Taiwan (R.O.C.) 235-86
TW

50-DA-00 (hex) Hangzhou H3C Technologies Co., Limited
50DA00 (base 16) Hangzhou H3C Technologies Co., Limited
466 Changhe Road, Binjiang District
Hangzhou Zhejiang, P.R.China 310052
CN

F4-ED-5F (hex) SHENZHEN KTC TECHNOLOGY GROUP
F4ED5F (base 16) SHENZHEN KTC TECHNOLOGY GROUP
Wuhe Street
Shenzhen Guangdong 518129
CN

00-E0-E4 (hex) FANUC ROBOTICS NORTH AMERICA, Inc.
00E0E4 (base 16) FANUC ROBOTICS NORTH AMERICA, Inc.
3900 W. HAMLIN RD.
ROCHESTER HILLS MI 48309-3253
US

D0-B5-3D (hex) SEPRO ROBOTIQUE
D0B53D (base 16) SEPRO ROBOTIQUE
ZI Acti-Est Les Ajoncs
LA ROCHE SUR YON F85003
FR

00-D0-EC (hex) NAKAYO Inc
00D0EC (base 16) NAKAYO Inc
Development Support Center 165 Higashiomuro-machi
Maebashi-shi Gunma 379-2105
JP

44-11-02 (hex) EDMI
Europe Ltd
441102 (base 16) EDMI Europe Ltd
The Grainger Suite, Dobson House
Newcastle upon Tyne NE3 3PF
GB

98-0C-A5 (hex) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
980CA5 (base 16) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
No.19, Gaoxin 4th Road, Wuhan East Lake High-tech Zone, Wuhan
Wuhan Hubei 430000
CN

A8-5E-E4 (hex) 12Sided Technology, LLC
A85EE4 (base 16) 12Sided Technology, LLC
1 Penn Plaza, 36th Floor
New York NY 10119
US

24-5E-BE (hex) QNAP Systems, Inc.
245EBE (base 16) QNAP Systems, Inc.
2F., No.22, Zhongxing Rd., Xizhi Dist.
New Taipei City 221
TW

04-04-EA (hex) Valens Semiconductor Ltd.
0404EA (base 16) Valens Semiconductor Ltd.
8 Hanagar Street
Hod Hasharon Hod Hasharon 4501309
IL

80-0D-D7 (hex) Latticework, Inc
800DD7 (base 16) Latticework, Inc
2210 O'Toole Ave, Suite 250
San Jose CA 95131
US

4C-CC-6A
(hex) Micro-Star INTL CO., LTD.
4CCC6A (base 16) Micro-Star INTL CO., LTD.
No.69, Lide St.,
New Taipei City Taiwan 235
TW

30-63-6B (hex) Apple, Inc.
30636B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

70-88-4D (hex) JAPAN RADIO CO., LTD.
70884D (base 16) JAPAN RADIO CO., LTD.
5-1-1 SHIMORENJYAKU,
MITAKA-SHI, TOKYO 181-8510
JP

A4-F1-E8 (hex) Apple, Inc.
A4F1E8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

54-67-51 (hex) Compal Broadband Networks, Inc.
546751 (base 16) Compal Broadband Networks, Inc.
13F., No.1, Taiyuan 1st St.
Zhubei City Hsinchu County 30265
TW

24-0B-0A (hex) Palo Alto Networks
240B0A (base 16) Palo Alto Networks
4401 Great America Parkway
Santa Clara CA 95054
US

D0-99-D5 (hex) Alcatel-Lucent
D099D5 (base 16) Alcatel-Lucent
777 East Middlefield Road
Mountain View CA
94043
US

00-24-7D (hex) Nokia Danmark A/S
00247D (base 16) Nokia Danmark A/S
Frederikskaj

Copenhagen V DK-1790
DK

14-BB-6E (hex) Samsung Electronics Co.,Ltd
14BB6E (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

2C-CC-15 (hex) Nokia Corporation
2CCC15 (base 16) Nokia Corporation
Joensuunkatu 7
Salo Varsinais-Suomi 24101
FI

D8-FB-5E (hex) ASKEY COMPUTER CORP
D8FB5E (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

00-18-C5 (hex) Nokia Danmark A/S
0018C5 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V 1790
DK

F4-F5-A5 (hex) Nokia Corporation
F4F5A5 (base 16) Nokia Corporation
Joensuunkatu 7
Salo 24101
FI

EC-9B-5B (hex) Nokia Corporation
EC9B5B (base 16) Nokia Corporation
Joensuunkatu 7
Salo Varsinais-Suomi 24101
FI

0C-BF-15
(hex) Genetec Inc.
0CBF15 (base 16) Genetec Inc.
2280 boul Alfred-Nobel
St. Laurent Quebec H4S 2A4
CA

00-23-26 (hex) FUJITSU LIMITED
002326 (base 16) FUJITSU LIMITED

403, Kosugi-cho 1-chome, Nakahara-ku
Kawasaki Kanagawa 211-0063
JP

00-22-65 (hex) Nokia Danmark A/S
002265 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

18-86-AC (hex) Nokia Danmark A/S
1886AC (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790V
DK

00-1F-5C (hex) Nokia Danmark A/S
001F5C (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790V
DK

00-1F-00 (hex) Nokia Danmark A/S
001F00 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790V
DK

00-26-68 (hex) Nokia Danmark A/S
002668 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-25-47 (hex) Nokia Danmark A/S
002547 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen
V DK-1790
DK

00-16-4E (hex) Nokia Danmark A/S
00164E (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

E4-98-D1 (hex) Microsoft Mobile Oy

E498D1 (base 16) Microsoft Mobile Oy
Keilalahdentie 4
ESPOO 02150
FI

6C-27-79 (hex) Microsoft Mobile Oy
6C2779 (base 16) Microsoft Mobile Oy
Keilalahdentie 4
ESPOO 02150
FI

00-0D-4B (hex) Roku, Inc.
000D4B (base 16) Roku, Inc.
399 Sherman Ave. #12
Palo Alto CA 94306
US

F8-80-96 (hex) Elsys Equipamentos Eletrônicos Ltda
F88096 (base 16) Elsys Equipamentos Eletrônicos Ltda
Rod. Visconde de Porto Seguro, n.º 2.660, Sitio Recreio dos Cafezais
Valinhos SP 13278327
BR

A8-11-FC (hex) ARRIS Group, Inc.
A811FC (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1D-AA (hex) DrayTek Corp.
001DAA (base 16) DrayTek Corp.
No. 26, Fu-Shing
Road
Hsin-Chu 303
TW

18-67-B0 (hex) Samsung Electronics Co.,Ltd
1867B0 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

00-40-FB (hex) CASCADE COMMUNICATIONS
0040FB (base 16) CASCADE COMMUNICATIONS
PRODUCTION QUALITY ENGINEER
WESTFORD MA 01886
US

00-CF-1C (hex) Communication Machinery Corporation
00CF1C (base 16) Communication Machinery Corporation
1226 ANACAPA
SANTA BARBARA CA 93101
US

D0-54-2D (hex) Cambridge Industries(Group) Co.,Ltd.
D0542D (base 16) Cambridge Industries(Group) Co.,Ltd.
22 Floor,Qilai Tower;889 Yishan Road
Shanghai 200233
CN

74-4A-A4 (hex) zte corporation
744AA4 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

28-CC-01 (hex) Samsung Electronics Co.,Ltd
28CC01 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi
Gyeongbuk 730-350
KR

6C-F3-73 (hex) Samsung Electronics Co.,Ltd
6CF373 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

9C-3A-AF (hex) Samsung Electronics Co.,Ltd
9C3AAF (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

78-1F-DB (hex) Samsung Electronics Co.,Ltd
781FDB (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

18-3F-47 (hex) Samsung Electronics Co.,Ltd
183F47 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-00-1D (hex) Cabletron Systems, Inc.
00001D (base 16) Cabletron Systems, Inc.
35 INDUSTRIAL WAY
ROCHESTER NH 03867
US

4C-A5-6D (hex) Samsung Electronics Co.,Ltd
4CA56D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B8-6C-E8 (hex) Samsung Electronics Co.,Ltd
B86CE8
(base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

0C-B3-19 (hex) Samsung Electronics Co.,Ltd
0CB319 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

50-A4-C8 (hex) Samsung Electronics Co.,Ltd
50A4C8 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

6C-83-36 (hex) Samsung Electronics Co.,Ltd
6C8336 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-26-B6 (hex) ASKEY COMPUTER CORP
0026B6 (base 16) ASKEY COMPUTER CORP
10F,NO.119,CHIENKANG RD,CHUNG-HO,TAIPEI,
TAIWAN TAIPEI 235
TW

DC-D8-7C (hex) Beijing Jingdong Century Trading Co., LTD.
DCD87C (base 16) Beijing Jingdong Century Trading Co., LTD.
28F,Building A Zhaolin Plaza,NO.19,Ronghua Middle road,BDA Beijing
Beijing 100176

CN

C4-DA-7D (hex) Ivium Technologies B.V.
C4DA7D
(base 16) Ivium Technologies B.V.
De Zaale 11
Eindhoven Noord Brabant 5612 AJ
NL

00-1B-A9 (hex) Brother industries, LTD.
001BA9 (base 16) Brother industries, LTD.
Printing & Solutions Company, Development Management Dept.
Nagoya Aichi 467-8561
JP

30-A2-20 (hex) ARG Telecom
30A220 (base 16) ARG Telecom
No.69, W. Lavasani St. ,
Tehran Tehran 1936938194
IR

E0-3E-44 (hex) Broadcom
E03E44 (base 16) Broadcom
190 Mathilda Place
Sunnyvale CA 94086
US

00-25-57 (hex) BlackBerry RTS
002557 (base 16) BlackBerry RTS
440 Phillip Street
Waterloo Ontario N2L 5W9
CA

00-1C-CC (hex) BlackBerry RTS
001CCC (base 16) BlackBerry RTS
305 Phillip Street
Waterloo Ontario N2L 3W8
CA

00-30-0A (hex) Aztech Electronics Pte Ltd
00300A (base 16) Aztech Electronics Pte Ltd
31 UBI ROAD 1
singapore 408694
SG

00-1F-3F (hex) AVM GmbH
001F3F (base 16) AVM GmbH
Alt-Moabit

95
Berlin 10559
DE

24-65-11 (hex) AVM GmbH
246511 (base 16) AVM GmbH
Alt-Moabit 95
Berlin 10559
DE

00-0B-6A (hex) Asiarock Technology Limited
000B6A (base 16) Asiarock Technology Limited
P.O. Box957, Offshore Incorporations Cen
Road Town Tortola 12345
VG

00-1B-9E (hex) ASKEY COMPUTER CORP
001B9E (base 16) ASKEY COMPUTER CORP
10F,NO.119,CHIENKANG RD,
CHUNG-HO,TPIPEI 235
TW

E0-CA-94 (hex) ASKEY COMPUTER CORP
E0CA94 (base 16) ASKEY COMPUTER CORP
10F,NO.119,CHIENKANG RD,CHUNG-HO,TAIPEI,
TAIWAN TAIPEI 235
TW

C4-04-15 (hex) NETGEAR
C40415 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

E8-FC-AF (hex) NETGEAR
E8FCAF (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

84-1B-5E (hex) NETGEAR
841B5E (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

2C-B0-5D (hex) NETGEAR
2CB05D

(base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

A0-21-B7 (hex) NETGEAR
A021B7 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

14-5B-D1 (hex) ARRIS Group, Inc.
145BD1 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

6C-C1-D2 (hex) ARRIS Group, Inc.
6CC1D2 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

74-F6-12 (hex) ARRIS Group, Inc.
74F612 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-24-95 (hex) ARRIS Group, Inc.
002495 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-24-A0 (hex) ARRIS Group, Inc.
0024A0 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

C0-FF-D4 (hex) NETGEAR
C0FFD4 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

6C-B0-CE

(hex) NETGEAR
6CB0CE (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

00-8E-F2 (hex) NETGEAR
008EF2 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

9C-D3-6D (hex) NETGEAR
9CD36D (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

00-26-4D (hex) Arcadyan Technology Corporation
00264D (base 16) Arcadyan Technology Corporation
4F., No. 9 , Park Avenue II ,
Hsinchu Taiwan 300
TW

84-9C-A6 (hex) Arcadyan Technology Corporation
849CA6 (base 16) Arcadyan Technology Corporation
4F, No. 9, Park Avenue II ,
Hsinchu 300
TW

00-24-B2 (hex) NETGEAR
0024B2 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

00-1B-2F (hex) NETGEAR
001B2F (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

00-1F-33 (hex) NETGEAR
001F33 (base 16) NETGEAR
350 East Plumeria Drive
San Jose
CA 95134
US

00-1E-45 (hex) Sony Corporation
001E45 (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

00-1C-A4 (hex) Sony Corporation
001CA4 (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

00-1A-75 (hex) Sony Corporation
001A75 (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

78-84-3C (hex) Sony Corporation
78843C (base 16) Sony Corporation
Gotenyama Tec,5-1-12,
Shinagawa-ku Tokyo 141-0001
JP

00-23-F1 (hex) Sony Corporation
0023F1 (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

6C-FA-A7 (hex) AMPAK Technology, Inc.
6CFAA7 (base 16) AMPAK Technology, Inc.
No.1,Jen Ai Road
Hsinchu 30352
TW

00-13-A9 (hex) Sony Corporation
0013A9 (base 16) Sony Corporation
Gotenyama Tec, 5-1-2 Kitashinagawa
Tokyo 141-0001
JP

00-0A-D9 (hex) Sony
Corporation
000AD9 (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075

JP

00-0E-07 (hex) Sony Corporation
000E07 (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

00-08-0E (hex) ARRIS Group, Inc.
00080E (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-90-9C (hex) ARRIS Group, Inc.
00909C (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-12-25 (hex) ARRIS Group, Inc.
001225 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-20-40 (hex) ARRIS Group, Inc.
002040 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

3C-75-4A (hex) ARRIS Group, Inc.
3C754A (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

E4-83-99 (hex) ARRIS Group, Inc.
E48399 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San
Diego CA 92121
US

00-21-43 (hex) ARRIS Group, Inc.
002143 (base 16) ARRIS Group, Inc.
6450 Sequence Drive

San Diego CA 92121
US

38-6B-BB (hex) ARRIS Group, Inc.
386BBB (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

E8-6D-52 (hex) ARRIS Group, Inc.
E86D52 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-15-CF (hex) ARRIS Group, Inc.
0015CF (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1E-46 (hex) ARRIS Group, Inc.
001E46 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-18-A4 (hex) ARRIS Group, Inc.
0018A4 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-18-C0 (hex) ARRIS Group, Inc.
0018C0 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

1C-14-48 (hex) ARRIS Group, Inc.
1C1448
(base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-17-84 (hex) ARRIS Group, Inc.
001784 (base 16) ARRIS Group, Inc.

6450 Sequence Drive
San Diego CA 92121
US

00-23-74 (hex) ARRIS Group, Inc.
002374 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1C-11 (hex) ARRIS Group, Inc.
001C11 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

94-CE-2C (hex) Sony Corporation
94CE2C (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

AC-E0-10 (hex) Liteon Technology Corporation
ACE010 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road, ChungHo
New Taipei City Taiwan 23585
TW

74-75-48 (hex) Amazon Technologies Inc.
747548 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

00-00-B1 (hex) Alpha Micro
0000B1 (base
16) Alpha Micro
3501 SUNFLOWER
SANTA ANA CA 92704
US

00-18-02 (hex) Alpha Networks Inc.
001802 (base 16) Alpha Networks Inc.
No.8 Li-shing Seventh Road,Science-based Industrial Park
Hsinchu 300
TW

54-27-1E (hex) AzureWave Technology Inc.

54271E (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City 231
TW

90-0B-C1 (hex) Sprocomm Technologies CO.,Ltd
900BC1 (base 16) Sprocomm Technologies CO.,Ltd
5D-506 F1.6 Block,Tianfa Building,Tianan Chegongmiao Industrial Park,Futian Dist,Shenzhen China
Shenzhen Guangdong 518000
CN

0C-6A-E6 (hex) Stanley Security Solutions
0C6AE6 (base 16) Stanley Security Solutions
6161 East 75th Street
Indianapolis IN 46250
US

54-E4-BD (hex) FN-LINK TECHNOLOGY LIMITED
54E4BD (base 16) FN-LINK TECHNOLOGY LIMITED
5th Floor, A Building, Haoye Logistics Park, Shugang Channel, Bao'an District,
SHENZHEN GUANGDONG 518000
CN

54-14-FD
(hex) Orbbec 3D Technology International
5414FD (base 16) Orbbec 3D Technology International
950 Stephenson Hwy Suite 208
Troy MI 48083
US

48-5D-60 (hex) AzureWave Technology Inc.
485D60 (base 16) AzureWave Technology Inc.
8F ., No.94, Baozhong Rd.
Xindian City Taipei County 231
TW

DC-85-DE (hex) AzureWave Technology Inc.
DC85DE (base 16) AzureWave Technology Inc.
8F ., No.94, Baozhong RD, Sindian,
New Taipei City 231
TW

B0-EE-45 (hex) AzureWave Technology Inc.
B0EE45 (base 16) AzureWave Technology Inc.
8F ., No.94, Baozhong Rd. , Xindian Dist.,
New Taipei City 231
US

FC-0F-E6 (hex) Sony Interactive Entertainment Inc.
FC0FE6 (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

24-FD-52 (hex) Liteon Technology Corporation
24FD52 (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road,ChungHo
New
Taipei City Taipei 23585
TW

2C-D0-5A (hex) Liteon Technology Corporation
2CD05A (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road,ChungHo
New Taipei City Taipei 23585
TW

74-E5-43 (hex) Liteon Technology Corporation
74E543 (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road,ChungHo
New Taipei City Taipei 23585
TW

00-1C-A8 (hex) AirTies Wireless Networks
001CA8 (base 16) AirTies Wireless Networks
Gulbahar Mahallesi, Avni Diligil Sokak
ISTANBUL ISTANBUL 34394
TR

00-23-8E (hex) ADB Broadband Italia
00238E (base 16) ADB Broadband Italia
VIALE SARCA 222
MILANO 20126
IT

00-1D-8B (hex) ADB Broadband Italia
001D8B (base 16) ADB Broadband Italia
VIALE SARCA 222
MILANO 20126
IT

00-13-C8 (hex) ADB Broadband Italia
0013C8 (base 16) ADB Broadband Italia
VIALE SARCA 222
MILANO 20126
IT

74-DE-2B (hex) Liteon Technology Corporation
74DE2B
(base 16) Liteon Technology Corporation
4F,90,Chien 1 Road,ChungHo,Taipei Hsien,Taiwan,
TaiPei TaiWan 23585
TW

00-22-5F (hex) Liteon Technology Corporation
00225F (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road,ChungHo,Taipei Hsien,Taiwan,
TaiPei TaiWan 23585
TW

5C-93-A2 (hex) Liteon Technology Corporation
5C93A2 (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road, ChungHo, TaiPei Hsien
TaiPei TaiWan 23585
TW

DC-0B-1A (hex) ADB Broadband Italia
DC0B1A (base 16) ADB Broadband Italia
via Sarca 222
Milano 20126
IT

84-26-15 (hex) ADB Broadband Italia
842615 (base 16) ADB Broadband Italia
VIALE SARCA 336
MILANO 20126
IT

F0-84-2F (hex) ADB Broadband Italia
F0842F (base 16) ADB Broadband Italia
VIALE SARCA 336
MILANO 20126
IT

28-C2-DD (hex) AzureWave Technology Inc.
28C2DD (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong
Rd.,
New Taipei City Taiwan 231
TW

80-A5-89 (hex) AzureWave Technology Inc.
80A589 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.,

New Taipei City Taiwan 231
TW

C4-09-38 (hex) FUJIAN STAR-NET COMMUNICATION CO.,LTD
C40938 (base 16) FUJIAN STAR-NET COMMUNICATION CO.,LTD
19-22# Building,,Star-net Science Plaza
Fuzhou Fujian 350002
CN

74-C6-3B (hex) AzureWave Technology Inc.
74C63B (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

AC-E5-F0 (hex) Doppler Labs
ACE5F0 (base 16) Doppler Labs
611 Broadway Suite 523
New York NY 10012
US

00-1C-50 (hex) TCL Technoly Electronics (Huizhou) Co., Ltd.
001C50 (base 16) TCL Technoly Electronics (Huizhou) Co., Ltd.
10/F, Block A , TCL Tower
Shenzhen Guangdong 518057
CN

00-AA-02 (hex) Intel Corporation
00AA02 (base 16) Intel Corporation
445
piscataway NJ
08554
US

7C-7A-91 (hex) Intel Corporate
7C7A91 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

AC-7B-A1 (hex) Intel Corporate
AC7BA1 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

6C-29-95 (hex) Intel Corporate
6C2995 (base 16) Intel Corporate

Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

98-4F-EE (hex) Intel Corporate
984FEE (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

8C-70-5A (hex) Intel Corporate
8C705A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

60-67-20 (hex) Intel Corporate
606720 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

FC-F8-AE (hex) Intel Corporate
FCF8AE (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

60-36-DD (hex) Intel Corporate
6036DD (base
16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-1E-65 (hex) Intel Corporate
001E65 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-1E-67 (hex) Intel Corporate
001E67 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-22-FA (hex) Intel Corporate

0022FA (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-15-00 (hex) Intel Corporate
001500 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

A0-88-B4 (hex) Intel Corporate
A088B4 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

64-80-99 (hex) Intel Corporate
648099 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D0-7E-35 (hex) Intel Corporate
D07E35 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim
Kedah 09000
MY

E8-2A-EA (hex) Intel Corporate
E82AEA (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

60-57-18 (hex) Intel Corporate
605718 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C4-D9-87 (hex) Intel Corporate
C4D987 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

10-0B-A9 (hex) Intel Corporate
100BA9 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-27-0E (hex) Intel Corporate
00270E (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B4-E1-C4 (hex) Microsoft Mobile Oy
B4E1C4 (base 16) Microsoft Mobile Oy
Keilalahdentie 4
Espoo 02150
FI

E0-75-7D (hex) Motorola Mobility LLC, a Lenovo Company
E0757D (base 16) Motorola Mobility LLC, a Lenovo Company
600 North US Highway 45
Libertyville IL 60048
US

34-BB-26
(hex) Motorola Mobility LLC, a Lenovo Company
34BB26 (base 16) Motorola Mobility LLC, a Lenovo Company
600 North US Highway 45
Libertyville IL 60048
US

80-6C-1B (hex) Motorola Mobility LLC, a Lenovo Company
806C1B (base 16) Motorola Mobility LLC, a Lenovo Company
222 Merchandise Mart Plaza, Suite 1800
Chicago IL 60654
US

00-D0-9E (hex) 2Wire Inc
00D09E (base 16) 2Wire Inc
694 TASMAN DRIVE
MILPITAS CA 95035
US

00-19-E4 (hex) 2Wire Inc
0019E4 (base 16) 2Wire Inc
1704 Automation Parkway
San Jose CA 94538
US

00-1A-C4 (hex) 2Wire Inc
001AC4 (base 16) 2Wire Inc
1704 Automation Parkway
San Jose CA 94538
US

00-1B-5B (hex) 2Wire Inc
001B5B (base 16) 2Wire Inc
1704 Automation Parkway
San Jose CA 95131
US

00-1E-C7 (hex) 2Wire Inc
001EC7 (base 16) 2Wire Inc
1704 Automation Prkwy
San Jose 95131
US

00-26-50 (hex) 2Wire Inc
002650
(base 16) 2Wire Inc
1764 Automation Parkway
San Jose CA 95131
US

00-16-EB (hex) Intel Corporate
0016EB (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-18-DE (hex) Intel Corporate
0018DE (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

5C-E0-C5 (hex) Intel Corporate
5CE0C5 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

58-A8-39 (hex) Intel Corporate
58A839 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000

MY

7C-5C-F8 (hex) Intel Corporate
7C5CF8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

4C-17-EB (hex) Sagemcom Broadband SAS
4C17EB (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
Rueil Malmaison Cedex Hauts de Seine 92848
FR

CC-33-BB (hex) Sagemcom Broadband SAS
CC33BB (base 16) Sagemcom
Broadband SAS
250 ROUTE DE L'EMPEREUR
RUEIL MALMAISON CEDEX Choisissez l'état / la province 92848
FR

3C-A3-48 (hex) vivo Mobile Communication Co., Ltd.
3CA348 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

E4-5A-A2 (hex) vivo Mobile Communication Co., Ltd.
E45AA2 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

B0-D5-CC (hex) Texas Instruments
B0D5CC (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

38-29-DD (hex) ONvocal Inc
3829DD (base 16) ONvocal Inc
104 Otis Street, Ste 28
Northborough MA 01532
US

80-0A-80 (hex) IEEE Registration Authority
800A80 (base 16) IEEE Registration Authority
445 Hoes Lane

Piscataway NJ 08554
US

DC-6D-CD (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
DC6DCD (base 16) GUANGDONG
OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

00-23-51 (hex) 2Wire Inc
002351 (base 16) 2Wire Inc
1764 Automation Parkway
San Jose CA 95131
US

3C-EA-4F (hex) 2Wire Inc
3CEA4F (base 16) 2Wire Inc
1764 Automation Parkway
San Jose 95131
US

DC-7F-A4 (hex) 2Wire Inc
DC7FA4 (base 16) 2Wire Inc
1764 Automation Parkway
San Jose 95131
US

C4-28-2D (hex) Embedded Intellect Pty Ltd
C4282D (base 16) Embedded Intellect Pty Ltd
Level 32, 101 Miller Street
North Sydney NSW 2060
AU

34-84-46 (hex) Ericsson AB
348446 (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

04-4E-06 (hex) Ericsson AB
044E06 (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

CC-3B-3E (hex) Lester Electrical
CC3B3E (base 16) Lester Electrical

625 W A Street
Lincoln NE 68522
US

20-82-C0
(hex) Xiaomi Communications Co Ltd
2082C0 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

00-17-3F (hex) Belkin International Inc.
00173F (base 16) Belkin International Inc.
501 West Walnut Street
Compton CA 90220-5221
US

00-1C-DF (hex) Belkin International Inc.
001CDF (base 16) Belkin International Inc.
12045 E. Waterfront Drive
Playa Vista CA 90094
US

20-55-32 (hex) Gotech International Technology Limited
205532 (base 16) Gotech International Technology Limited
Unit 2506, 25/F, Prosperity Place,6 Shing Yip Street, Kwun Tong, Kowloon
Hong Kong 00000
CN

2C-FF-65 (hex) Oki Electric Industry Co., Ltd.
2CFF65 (base 16) Oki Electric Industry Co., Ltd.
1-7-12 Toranomon
Tokyo 105-8460
JP

2C-27-D7 (hex) Hewlett Packard
2C27D7 (base 16) Hewlett Packard
11445 Compaq Center
Drive
Houston 77070
US

98-4B-E1 (hex) Hewlett Packard
984BE1 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

C0-56-27 (hex) Belkin International Inc.
C05627 (base 16) Belkin International Inc.
12045 E. Waterfront Drive
Playa Vista CA 90094
US

D8-6C-E9 (hex) Sagemcom Broadband SAS
D86CE9 (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
RUEIL MALMAISON CEDEX Hauts de Seine 92848
FR

E8-F1-B0 (hex) Sagemcom Broadband SAS
E8F1B0 (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
RUEIL MALMAISON CEDEX Hauts de Seine 92848
FR

00-15-E9 (hex) D-Link Corporation
0015E9 (base 16) D-Link Corporation
2F, No.233-2, Pao-Chiao Road
Hsin-Tien, Taipei 231
TW

00-1B-11 (hex) D-Link Corporation
001B11 (base 16) D-Link Corporation
NO.289, Sinhu 3rd Rd.,
Neihu District, Taipei City 114
TW

00-26-5A (hex) D-Link Corporation
00265A
(base 16) D-Link Corporation
No.289, Sinhu 3rd Rd.,
Neihu District 114
TW

5C-6B-32 (hex) Texas Instruments
5C6B32 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

84-DD-20 (hex) Texas Instruments
84DD20 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

00-17-E5 (hex) Texas Instruments
0017E5 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

00-17-EC (hex) Texas Instruments
0017EC (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

00-17-E7 (hex) Texas Instruments
0017E7 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

00-17-E9 (hex) Texas Instruments
0017E9 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

1C-BA-8C (hex) Texas Instruments
1CBA8C (base 16) Texas Instruments
12500
TI Boulevard, MS 8723
Dallas TX 75243
US

58-46-E1 (hex) Baxter International Inc
5846E1 (base 16) Baxter International Inc
One Baxter Parkway
Deerfield IL 60015
US

00-18-31 (hex) Texas Instruments
001831 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

24-FD-5B (hex) SmartThings, Inc.
24FD5B (base 16) SmartThings, Inc.
456 University Avenue
Palo Alto CA 94301

US

28-76-CD (hex) Funshion Online Technologies Co.,Ltd
2876CD (base 16) Funshion Online Technologies Co.,Ltd
Tower B 1201, Jinqiu International Building, No.6, Zhichun Road, Haidian District
Beijing 100088
CN

00-1A-11 (hex) Google, Inc.
001A11 (base 16) Google, Inc.
1600 Amphitheater Parkway
Mountain View CA 94043
US

28-BC-56 (hex) EMAC, Inc.
28BC56 (base 16) EMAC, Inc.
2390 EMAC Way
Carbondale IL 62902
US

C8-BE-19 (hex) D-Link International
C8BE19
(base 16) D-Link International
1 International Business Park, #03-12, The Synergy
SINGAPORE 609917
SG

00-29-26 (hex) Applied Optoelectronics, Inc Taiwan Branch
002926 (base 16) Applied Optoelectronics, Inc Taiwan Branch
No.18,Gong 4th Rd
New Taipei City Linkou District 24452
TW

48-DB-50 (hex) HUAWEI TECHNOLOGIES CO.,LTD
48DB50 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan Guangdong 523808
CN

A4-BA-76 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A4BA76 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan Guangdong 523808
CN

00-50-C2 (hex) IEEE Registration Authority
0050C2 (base 16) IEEE Registration Authority
445 Hoes Lane

Piscataway NJ 08554
US

A0-F8-95 (hex) Shenzhen TINNO Mobile Technology Corp.
A0F895 (base 16) Shenzhen TINNO Mobile Technology Corp.
Building,
No.33, Xiandong Rd, Xili
Nanshan District, Shenzhen PRC 518053
CN

00-78-CD (hex) Ignition Design Labs
0078CD (base 16) Ignition Design Labs
1550 Technology Drive
San Jose 95110
US

44-00-10 (hex) Apple, Inc.
440010 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-56-CD (hex) Apple, Inc.
0056CD (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-CD-FE (hex) Apple, Inc.
00CDFE (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

24-BA-13 (hex) RISO KAGAKU CORPORATION
24BA13 (base 16) RISO KAGAKU CORPORATION
2-8-1 Gakuen-minami
Thukuba-shi Ibaraki 305-0818
JP

9C-34-26 (hex) ARRIS Group, Inc.
9C3426 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

2C-6E-85 (hex) Intel Corporate
2C6E85 (base 16) Intel Corporate

Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C8-47-8C
(hex) Beken Corporation
C8478C (base 16) Beken Corporation
Building 41, Capital of Tech Leaders, 1387 Zhangdong Road, Zhangjiang High-Tech Park, Pudong New District
Shanghai 201203
CN

E4-98-D6 (hex) Apple, Inc.
E498D6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-60-37 (hex) NXP Semiconductors
006037 (base 16) NXP Semiconductors
High Tech Campus 32, Office 1.21
SAF AD 13456
NL

DC-C0-EB (hex) ASSA ABLOY CÔTE PICARDE
DCC0EB (base 16) ASSA ABLOY CÔTE PICARDE
rue Alexandre Fichet
Oust-Marest 80460
FR

9C-EF-D5 (hex) Panda Wireless, Inc.
9CEFD5 (base 16) Panda Wireless, Inc.
15559 Union Ave, Suite 300
Los Gatos CA 95032
US

70-CA-4D (hex) Shenzhen lnovance Technology Co.,Ltd.
70CA4D (base 16) Shenzhen lnovance Technology Co.,Ltd.
LiuXian 2 Road
Shenzhen Guangdong 518000
CN

00-1D-D1 (hex) ARRIS Group, Inc.
001DD1 (base 16) ARRIS
Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1D-CF (hex) ARRIS Group, Inc.
001DCF (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1D-D5 (hex) ARRIS Group, Inc.
001DD5 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1D-D4 (hex) ARRIS Group, Inc.
001DD4 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

CC-A4-62 (hex) ARRIS Group, Inc.
CCA462 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

14-CF-E2 (hex) ARRIS Group, Inc.
14CFE2 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

44-E1-37 (hex) ARRIS Group, Inc.
44E137 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-00-C5 (hex) ARRIS Group, Inc.
0000C5 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

E4-FA-FD
(hex) Intel Corporate
E4FAFD (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

94-65-9C (hex) Intel Corporate
94659C (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

48-45-20 (hex) Intel Corporate
484520 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C8-0E-77 (hex) Le Shi Zhi Xin Electronic Technology (Tianjin) Limited
C80E77 (base 16) Le Shi Zhi Xin Electronic Technology (Tianjin) Limited
No.201-427,2F,Tthe Animation Building B1 District£¬No. 126£¬Tianjin eco-city animation Road
Tianjin 300467
CN

90-49-FA (hex) Intel Corporate
9049FA (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

BC-0F-64 (hex) Intel Corporate
BC0F64 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

64-55-B1 (hex) ARRIS Group, Inc.
6455B1 (base
16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-02-B3 (hex) Intel Corporation
0002B3 (base 16) Intel Corporation
M/S: JF3-420
Hillsboro OR 97124
US

00-03-47 (hex) Intel Corporation
000347 (base 16) Intel Corporation
M/S: JF3-420
Hillsboro OR 97124

US

00-0E-0C (hex) Intel Corporation
000E0C (base 16) Intel Corporation
2111 NE 25th Avenue
Hillsboro OR 97124
US

00-13-20 (hex) Intel Corporate
001320 (base 16) Intel Corporate
Lot 8, Jalan Hi-tech 2/3
Kulim Kedah 09000
MY

00-13-21 (hex) Hewlett Packard
001321 (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-08-02 (hex) Hewlett Packard
000802 (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-02-A5 (hex) Hewlett Packard
0002A5 (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

6C-C2-17
(hex) Hewlett Packard
6CC217 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

14-58-D0 (hex) Hewlett Packard
1458D0 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

D8-D3-85 (hex) Hewlett Packard
D8D385 (base 16) Hewlett Packard
11445 Compaq Center Drive

Houston 77070
US

18-A9-05 (hex) Hewlett Packard
18A905 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

00-1B-78 (hex) Hewlett Packard
001B78 (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-18-71 (hex) Hewlett Packard
001871 (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-0E-7F (hex) Hewlett Packard
000E7F (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-11-85 (hex) Hewlett Packard
001185 (base 16) Hewlett Packard
20555 State
Highway 249
Houston TX 77070
US

00-12-79 (hex) Hewlett Packard
001279 (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

EC-9A-74 (hex) Hewlett Packard
EC9A74 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

10-60-4B (hex) Hewlett Packard
10604B (base 16) Hewlett Packard

11445 Compaq Center Drive
Houston 77070
US

C8-CB-B8 (hex) Hewlett Packard
C8CBB8 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

84-34-97 (hex) Hewlett Packard
843497 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

10-6F-3F (hex) BUFFALO.INC
106F3F (base 16) BUFFALO.INC
AKAMONDORI Bldg., 30-20,Ohsu 3-chome
Naka-ku,Nagoya Aichi Pref. 460-8315
JP

B0-C7-45 (hex) BUFFALO.INC
B0C745 (base 16) BUFFALO.INC
AKAMONDORI Bldg.,30-20,Ohsu 3-chome
Naka-ku,Nagoya Aichi Pref 460-8315
JP

5C-8A-38
(hex) Hewlett Packard
5C8A38 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

2C-59-E5 (hex) Hewlett Packard
2C59E5 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

D8-60-B0 (hex) bioMérieux Italia S.p.A.
D860B0 (base 16) bioMérieux Italia S.p.A.
Via di Campigliano, 58
Bagno a Ripoli Firenze 50012
IT

D8-FC-38 (hex) Giantec Semiconductor Inc

D8FC38 (base 16) Giantec Semiconductor Inc
No12, Lane647, Songtao Rd, Zhangjiang Hi-Tech Park
Shanghai Shanghai 201203
CN

AC-2A-0C (hex) CSR ZHUZHOU INSTITUTE CO.,LTD.
AC2A0C (base 16) CSR ZHUZHOU INSTITUTE CO.,LTD.
Times Ave.,Zhuzhou,hunan,China
zhuzhou Hunan 412001
CN

2C-67-98 (hex) InTalTech Ltd.
2C6798 (base 16) InTalTech Ltd.
Shlomo Ben David 5
Rishon LeZion 7536215
IL

F8-DB-7F (hex) HTC Corporation
F8DB7F (base 16) HTC Corporation
No.23
Xinghua Road
Taoyuan County 330
TW

64-A7-69 (hex) HTC Corporation
64A769 (base 16) HTC Corporation
No.23 Xinghua Road
Taoyuan County 330
TW

E8-99-C4 (hex) HTC Corporation
E899C4 (base 16) HTC Corporation
No. 23, Xinghua Rd., Taoyuan City
Taoyuan County Taiwan 330
TW

BC-CF-CC (hex) HTC Corporation
BCCFCC (base 16) HTC Corporation
No. 23, Xinghua Rd., Taoyuan City
Taoyuan County 330
TW

28-56-5A (hex) Hon Hai Precision Ind. Co.,Ltd.
28565A (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

00-19-E0 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
0019E0 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
South Building, No.5 Keyuan Road
Nanshan Shenzhen 518057
CN

00-25-86 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
002586 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 7, Second Part, Honghualing Industrial Zone
Shenzhen
Guangdong 518057
CN

54-E6-FC (hex) TP-LINK TECHNOLOGIES CO.,LTD.
54E6FC (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
1-6F, Building 2, Pingshandayuan Industrial, South Zone,
Shenzhen Guangdong 518000
CN

74-EA-3A (hex) TP-LINK TECHNOLOGIES CO.,LTD.
74EA3A (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 7, Second Part, Honghualing Industrial Zone
Shenzhen Guangdong 518000
CN

6C-B5-6B (hex) HUMAX Co., Ltd.
6CB56B (base 16) HUMAX Co., Ltd.
HUMAX Village,216,Hwangsaeul-ro,Bundang-gu
Seongnam-si Gyeonggi-do 463-875
KR

D8-1F-CC (hex) Brocade Communications Systems LLC
D81FCC (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

00-23-4D (hex) Hon Hai Precision Ind. Co.,Ltd.
00234D (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

00-25-56 (hex) Hon Hai Precision Ind. Co.,Ltd.
002556
(base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332

CN

60-18-88 (hex) zte corporation
601888 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

84-77-78 (hex) Cochlear Limited
847778 (base 16) Cochlear Limited
1 University Avenue
Sydney New South Wales 2109
AU

88-7F-03 (hex) Comper Technology Investment Limited
887F03 (base 16) Comper Technology Investment Limited
Room 710, Wangjing SOHO Tower 1-B
Beijing Beijing 100102
CN

00-80-E1 (hex) STMicroelectronics SRL
0080E1 (base 16) STMicroelectronics SRL
1000 AZTEC WEST
london 12345
GB

00-04-EA (hex) Hewlett Packard
0004EA (base 16) Hewlett Packard
MAIL STOP 42LE
CUPERTINO CA 95014
US

F4-31-C3 (hex) Apple, Inc.
F431C3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

64-A5-C3
(hex) Apple, Inc.
64A5C3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E4-22-A5 (hex) PLANTRONICS, INC.
E422A5 (base 16) PLANTRONICS, INC.
345 ENCINAL STREET

SANTA CRUZ CA 95060
US

D4-C9-B2 (hex) Quanergy Systems Inc
D4C9B2 (base 16) Quanergy Systems Inc
482 Mercury Drive
Sunnyvale California 94085
US

60-21-C0 (hex) Murata Manufacturing Co., Ltd.
6021C0 (base 16) Murata Manufacturing Co., Ltd.
1-10-1 Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

88-30-8A (hex) Murata Manufacturing Co., Ltd.
88308A (base 16) Murata Manufacturing Co., Ltd.
1-10-1 Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

5C-DA-D4 (hex) Murata Manufacturing Co., Ltd.
5CDAD4 (base 16) Murata Manufacturing Co., Ltd.
2288, Oaza-Ohshinohara, Yasu-cho,
Yasu-gun Shiga 520-2393
JP

00-26-E8 (hex) Murata Manufacturing Co., Ltd.
0026E8 (base 16) Murata
Manufacturing Co., Ltd.
2288, Oaza-Ohshinohara, Yasu-cho,
Yasu-gun Shiga 520-2393
JP

FC-C8-97 (hex) zte corporation
FCC897 (base 16) zte corporation
12/F.,zte R&D building,kejinan Road,
shenzhen guangdong 518057
CN

00-25-12 (hex) zte corporation
002512 (base 16) zte corporation
12/F ZTE Plaza,Keji Road South,Hi-Tech Industrial Park,Nanshan District,
Shenzhen GUANGDONG 518057
CN

00-1C-26 (hex) Hon Hai Precision Ind. Co.,Ltd.
001C26 (base 16) Hon Hai Precision Ind. Co.,Ltd.

Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

00-22-68 (hex) Hon Hai Precision Ind. Co.,Ltd.
002268 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

BC-3A-EA (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
BC3AEA (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,WUSHA,CHANG'AN,DONGGUAN,GUANGDONG,CHINA
DONGGUAN
GUANGDONG 523860
CN

F8-1A-67 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
F81A67 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park,Shennan Rd, Nanshan
shenzhen guangdong Province 518057
CN

EC-17-2F (hex) TP-LINK TECHNOLOGIES CO.,LTD.
EC172F (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park,Shennan Rd, Nanshan
shenzhen guangdong Province 518057
CN

14-E6-E4 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
14E6E4 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park,Shennan Rd, Nanshan,
Shenzhen Guangdong Province, 518057
CN

00-16-CE (hex) Hon Hai Precision Ind. Co.,Ltd.
0016CE (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing
Chongqing 401332
CN

30-0E-D5 (hex) Hon Hai Precision Ind. Co.,Ltd.
300ED5 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

48-5A-B6 (hex) Hon Hai Precision Ind. Co.,Ltd.
485AB6 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

54-35-30 (hex) Hon Hai Precision Ind. Co.,Ltd.
543530 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

00-24-38 (hex) Brocade Communications Systems LLC
002438 (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

00-14-C9 (hex) Brocade Communications Systems LLC
0014C9 (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

34-4B-50 (hex) zte corporation
344B50 (base 16) zte corporation
12/F,ZTE
R&D Building,Kejinan Road,
Shenzhen Guangdong 518057
CN

E8-08-8B (hex) HUAWEI TECHNOLOGIES CO.,LTD
E8088B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

0C-96-BF (hex) HUAWEI TECHNOLOGIES CO.,LTD
0C96BF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

60-E7-01 (hex) HUAWEI TECHNOLOGIES CO.,LTD
60E701 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

50-EB-1A (hex) Brocade Communications Systems LLC
50EB1A (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

00-27-F8 (hex) Brocade Communications Systems LLC
0027F8 (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

74-8E-F8 (hex) Brocade Communications
Systems LLC
748EF8 (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

F8-66-D1 (hex) Hon Hai Precision Ind. Co.,Ltd.
F866D1 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

F0-EB-D0 (hex) Shanghai Feixun Communication Co.,Ltd.
F0EBD0 (base 16) Shanghai Feixun Communication Co.,Ltd.
Building 90,No,4855,Guangfulin Road
shanghai Shanghai 201616
CN

88-86-03 (hex) HUAWEI TECHNOLOGIES CO.,LTD
888603 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
Shenzhen 518129
CN

04-F9-38 (hex) HUAWEI TECHNOLOGIES CO.,LTD
04F938 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
Shenzhen Guangdong 518129
CN

AC-85-3D (hex) HUAWEI TECHNOLOGIES CO.,LTD
AC853D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei

Industrial Base,Bantian,Longgang,Shenzhen
Shenzhen Guangdong 518129
CN

48-46-FB (hex) HUAWEI TECHNOLOGIES CO.,LTD
4846FB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
Shenzhen Guangdong 518129
CN

7C-60-97 (hex) HUAWEI TECHNOLOGIES CO.,LTD
7C6097 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
ShenZhen GuangDong 518129
CN

CC-53-B5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
CC53B5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
ShenZhen GuangDong 518129
CN

60-DE-44 (hex) HUAWEI TECHNOLOGIES CO.,LTD
60DE44 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
ShenZhen GuangDong 518129
CN

10-51-72 (hex) HUAWEI TECHNOLOGIES CO.,LTD
105172 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base
Shenzhen Guangdong
518129
CN

08-E8-4F (hex) HUAWEI TECHNOLOGIES CO.,LTD
08E84F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base
Shenzhen Guangdong 518129
CN

64-3E-8C (hex) HUAWEI TECHNOLOGIES CO.,LTD
643E8C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base
Shenzhen Guangdong 518129
CN

84-A8-E4 (hex) HUAWEI TECHNOLOGIES CO.,LTD

84A8E4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District,
Shenzhen Guangdong 518108
CN

00-18-82 (hex) HUAWEI TECHNOLOGIES CO.,LTD
001882 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
F1-20,Section F,Huawei Base,Bantian, Longgang District
ShenZhen GuangDong 518129
CN

D4-EA-0E (hex) Avaya Inc
D4EA0E (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

78-F5-FD (hex) HUAWEI TECHNOLOGIES CO.,LTD
78F5FD (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building
17,Nangang Industrial Park,
Shenzhen Guangdong 518057
CN

5C-7D-5E (hex) HUAWEI TECHNOLOGIES CO.,LTD
5C7D5E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park,
Shenzhen Guangdong 518057
CN

20-F3-A3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
20F3A3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District
Shenzhen Guangdong 518057
CN

0C-37-DC (hex) HUAWEI TECHNOLOGIES CO.,LTD
0C37DC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District
Shenzhen Guangdong 518057
CN

BC-76-70 (hex) HUAWEI TECHNOLOGIES CO.,LTD
BC7670 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District,
Shenzhen Guangdong 518108
CN

24-DB-AC (hex) HUAWEI TECHNOLOGIES CO.,LTD
24DBAC
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District,
Shenzhen Guangdong 518108
CN

1C-1D-67 (hex) HUAWEI TECHNOLOGIES CO.,LTD
1C1D67 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District,
Shenzhen Guangdong 518108
CN

D0-2D-B3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D02DB3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate
Shenzhen GuangDong 518057
CN

E8-CD-2D (hex) HUAWEI TECHNOLOGIES CO.,LTD
E8CD2D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate
Shenzhen GuangDong 518057
CN

24-69-A5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
2469A5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park
Shenzhen Guangdong 518057
CN

EC-23-3D
(hex) HUAWEI TECHNOLOGIES CO.,LTD
EC233D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park,
Shenzhen Guangdong 518057
CN

E0-24-7F (hex) HUAWEI TECHNOLOGIES CO.,LTD
E0247F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1-4,Huawei Industrial Base,Bantian,Longgang
ShenZhen GuangDong 518129
CN

00-46-4B (hex) HUAWEI TECHNOLOGIES CO.,LTD
00464B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1-4,Huawei Industrial Base,Bantian,Longgang
ShenZhen GuangDong 518129

CN

80-FB-06 (hex) HUAWEI TECHNOLOGIES CO.,LTD
80FB06 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1-4,Huawei Industrial Base,Bantian,Longgang
ShenZhen GuangDong 518129
CN

90-67-1C (hex) HUAWEI TECHNOLOGIES CO.,LTD
90671C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

BC-25-E0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
BC25E0 (base 16) HUAWEI TECHNOLOGIES
CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F4-E3-FB (hex) HUAWEI TECHNOLOGIES CO.,LTD
F4E3FB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

6C-FA-58 (hex) Avaya Inc
6CFA58 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

6C-A8-49 (hex) Avaya Inc
6CA849 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

64-C3-54 (hex) Avaya Inc
64C354 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

50-CD-22 (hex) Avaya Inc
50CD22 (base 16) Avaya Inc
360 Mt Kemble Ave

Morristown NJ 07960
US

B4-A9-5A (hex) Avaya Inc
B4A95A (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

58-16-26 (hex) Avaya Inc
581626 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

A0-51-C6
(hex) Avaya Inc
A051C6 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

70-E4-22 (hex) Cisco Systems, Inc
70E422 (base 16) Cisco Systems, Inc
80 West Tasman Dr.
San Jose CA 94568
US

00-50-0F (hex) Cisco Systems, Inc
00500F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-50-A2 (hex) Cisco Systems, Inc
0050A2 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-E0-B0 (hex) Cisco Systems, Inc
00E0B0 (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

00-E0-FE (hex) Cisco Systems, Inc
00E0FE (base 16) Cisco Systems, Inc

170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

00-E0-34 (hex) Cisco Systems, Inc
00E034 (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

00-E0-F9 (hex) Cisco Systems, Inc
00E0F9 (base 16) Cisco Systems,
Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

C8-D7-19 (hex) Cisco-Linksys, LLC
C8D719 (base 16) Cisco-Linksys, LLC
121 Theory Drive
Irvine 92612
US

20-3A-07 (hex) Cisco Systems, Inc
203A07 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

00-12-D2 (hex) Texas Instruments
0012D2 (base 16) Texas Instruments
12500 TI Boulevard
Dallas 75243
US

A8-63-F2 (hex) Texas Instruments
A863F2 (base 16) Texas Instruments
12203 S.W.Freeway, MS728
Stafford 77477
US

D0-FF-50 (hex) Texas Instruments
D0FF50 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

20-C3-8F (hex) Texas Instruments

20C38F (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

7C-66-9D (hex) Texas Instruments
7C669D (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

D8-DD-FD (hex) Texas Instruments
D8DDFD
(base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

7C-1D-D9 (hex) Xiaomi Communications Co Ltd
7C1DD9 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

A0-86-C6 (hex) Xiaomi Communications Co Ltd
A086C6 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

9C-99-A0 (hex) Xiaomi Communications Co Ltd
9C99A0 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

58-44-98 (hex) Xiaomi Communications Co Ltd
584498 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

00-10-79 (hex) Cisco Systems, Inc
001079 (base
16) Cisco Systems, Inc
170 W. TASMAN DR.
SAN JOSE CA 95134-1706
US

00-10-29 (hex) Cisco Systems, Inc
001029 (base 16) Cisco Systems, Inc
170 W. TASMAN DR.
SAN JOSE CA 95134-1706
US

00-0E-08 (hex) Cisco-Linksys, LLC
000E08 (base 16) Cisco-Linksys, LLC
170 West Tasman Dr.
San Jose CA 95134
US

00-60-3E (hex) Cisco Systems, Inc
00603E (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

00-60-2F (hex) Cisco Systems, Inc
00602F (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

00-60-47 (hex) Cisco Systems, Inc
006047 (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

00-02-3D (hex) Cisco Systems, Inc
00023D (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

00-50-2A (hex) Cisco Systems, Inc
00502A (base 16) Cisco Systems, Inc
170
W. TASMAN DR.
SAN JOSE CA 95134-1706
US

44-03-A7 (hex) Cisco Systems, Inc
4403A7 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134

US

B0-FA-EB (hex) Cisco Systems, Inc
B0FAEB (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

D0-5F-B8 (hex) Texas Instruments
D05FB8 (base 16) Texas Instruments
12500 TI BLVD
Dallas 75243
US

84-EB-18 (hex) Texas Instruments
84EB18 (base 16) Texas Instruments
12500 TI BLVD
Dallas 75243
US

88-90-8D (hex) Cisco Systems, Inc
88908D (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

F0-78-16 (hex) Cisco Systems, Inc
F07816 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

00-22-3A (hex) Cisco SPVTG
00223A (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

00-21-BE (hex) Cisco SPVTG
0021BE
(base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

00-0C-41 (hex) Cisco-Linksys, LLC
000C41 (base 16) Cisco-Linksys, LLC
121 Theory Dr.

Irvine CA 92612
US

1C-DE-A7 (hex) Cisco Systems, Inc
1CDEA7 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

F0-7F-06 (hex) Cisco Systems, Inc
F07F06 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

BC-16-F5 (hex) Cisco Systems, Inc
BC16F5 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

FC-5B-39 (hex) Cisco Systems, Inc
FC5B39 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

34-6F-90 (hex) Cisco Systems, Inc
346F90 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

14-DA-E9 (hex) ASUSTek COMPUTER INC.
14DAE9 (base 16) ASUSTek COMPUTER INC.
15,Li-Te
Rd.,Peitou,
Taipei 112
TW

F4-CF-E2 (hex) Cisco Systems, Inc
F4CFE2 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

A8-0C-0D (hex) Cisco Systems, Inc
A80C0D (base 16) Cisco Systems, Inc

170 West Tasman Drive
San Jose CA 95134
US

7C-AD-74 (hex) Cisco Systems, Inc
7CAD74 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

F4-1F-C2 (hex) Cisco Systems, Inc
F41FC2 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

44-AD-D9 (hex) Cisco Systems, Inc
44ADD9 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

0C-68-03 (hex) Cisco Systems, Inc
0C6803 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

C0-8C-60 (hex) Cisco Systems, Inc
C08C60 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

E8-ED-F3
(hex) Cisco Systems, Inc
E8EDF3 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

E4-C7-22 (hex) Cisco Systems, Inc
E4C722 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

64-E9-50 (hex) Cisco Systems, Inc

64E950 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

5C-FC-66 (hex) Cisco Systems, Inc
5CFC66 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

D4-6D-50 (hex) Cisco Systems, Inc
D46D50 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

74-A0-2F (hex) Cisco Systems, Inc
74A02F (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

C0-7B-BC (hex) Cisco Systems, Inc
C07BBC (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

24-E9-B3 (hex) Cisco Systems, Inc
24E9B3 (base 16) Cisco
Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

00-11-D8 (hex) ASUSTek COMPUTER INC.
0011D8 (base 16) ASUSTek COMPUTER INC.
No.150, Li-Te Rd., Peitou
Taipei 112
TW

00-18-F3 (hex) ASUSTek COMPUTER INC.
0018F3 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd.,Peitou
Taipei 112
TW

00-1A-92 (hex) ASUSTek COMPUTER INC.
001A92 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd.,Peitou
Taipei 112
TW

88-F0-31 (hex) Cisco Systems, Inc
88F031 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

00-16-B6 (hex) Cisco-Linksys, LLC
0016B6 (base 16) Cisco-Linksys, LLC
121 Theory Dr.
Irvine CA 92612
US

00-18-F8 (hex) Cisco-Linksys, LLC
0018F8 (base 16) Cisco-Linksys, LLC
121 Theory Drive
Irvine CA 92612
US

00-25-2E (hex) Cisco SPVTG
00252E (base 16) Cisco SPVTG
5030 Sugarloaf Pkwy
Lawrenceville GA 30044
US

54-D4-6F
(hex) Cisco SPVTG
54D46F (base 16) Cisco SPVTG
5030 Sugarloaf Pkwy
Lawrenceville GA 30044
US

A4-A2-4A (hex) Cisco SPVTG
A4A24A (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

44-E0-8E (hex) Cisco SPVTG
44E08E (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

BC-C8-10 (hex) Cisco SPVTG
BCC810 (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

7C-B2-1B (hex) Cisco SPVTG
7CB21B (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville 30044
US

24-76-7D (hex) Cisco SPVTG
24767D (base 16) Cisco SPVTG
5030 Sugarloaf Pkwy
Lawrenceville GA 30044
US

48-1D-70 (hex) Cisco SPVTG
481D70 (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

00-E0-36 (hex) PIONEER CORPORATION
00E036 (base 16) PIONEER CORPORATION
2610 Hanazono 4-Chome
Saitama
Prefecture, 359-8 34567
JP

00-E0-4F (hex) Cisco Systems, Inc
00E04F (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

00-10-FF (hex) Cisco Systems, Inc
0010FF (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

00-10-54 (hex) Cisco Systems, Inc
001054 (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706

US

00-10-F6 (hex) Cisco Systems, Inc
0010F6 (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

00-10-A6 (hex) Cisco Systems, Inc
0010A6 (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

F0-B2-E5 (hex) Cisco Systems, Inc
F0B2E5 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

00-10-FA (hex) Apple, Inc.
0010FA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-50-E4
(hex) Apple, Inc.
0050E4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-0D-93 (hex) Apple, Inc.
000D93 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-19-E3 (hex) Apple, Inc.
0019E3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-1B-63 (hex) Apple, Inc.
001B63 (base 16) Apple, Inc.
1 Infinite Loop

Cupertino CA 95014
US

00-1E-C2 (hex) Apple, Inc.
001EC2 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-1F-F3 (hex) Apple, Inc.
001FF3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-23-32 (hex) Apple, Inc.
002332 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-23-6C (hex) Apple, Inc.
00236C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-23-DF (hex) Apple, Inc.
0023DF (base 16) Apple, Inc.
1
Infinite Loop
Cupertino CA 95014
US

00-25-00 (hex) Apple, Inc.
002500 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-25-BC (hex) Apple, Inc.
0025BC (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

34-15-9E (hex) Apple, Inc.
34159E (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

58-B0-35 (hex) Apple, Inc.
58B035 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

5C-59-48 (hex) Apple, Inc.
5C5948 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C8-BC-C8 (hex) Apple, Inc.
C8BCC8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

58-97-BD (hex) Cisco Systems, Inc
5897BD (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

5C-83-8F (hex) Cisco Systems, Inc
5C838F (base 16) Cisco Systems, Inc
170 West Tasman Drive
San
Jose CA 95134
US

EC-BD-1D (hex) Cisco Systems, Inc
ECBD1D (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

7C-FA-DF (hex) Apple, Inc.
7CFADF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

24-AB-81 (hex) Apple, Inc.

24AB81 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

78-A3-E4 (hex) Apple, Inc.
78A3E4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

1C-AB-A7 (hex) Apple, Inc.
1CABA7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E0-F8-47 (hex) Apple, Inc.
E0F847 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

28-E7-CF (hex) Apple, Inc.
28E7CF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E4-CE-8F (hex) Apple, Inc.
E4CE8F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E8-04-0B (hex) Apple,
Inc.
E8040B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

14-5A-05 (hex) Apple, Inc.
145A05 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

14-8F-C6 (hex) Apple, Inc.
148FC6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

28-6A-B8 (hex) Apple, Inc.
286AB8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

28-E0-2C (hex) Apple, Inc.
28E02C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E0-B9-BA (hex) Apple, Inc.
E0B9BA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-C6-10 (hex) Apple, Inc.
00C610 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

7C-D1-C3 (hex) Apple, Inc.
7CD1C3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-DC-E2 (hex) Apple, Inc.
F0DCE2 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

A8-20-66 (hex) Apple, Inc.
A82066 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

BC-52-B7 (hex) Apple, Inc.
BC52B7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C0-84-7A (hex) Apple, Inc.
C0847A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B8-F6-B1 (hex) Apple, Inc.
B8F6B1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

8C-FA-BA (hex) Apple, Inc.
8CFABA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

88-1F-A1 (hex) Apple, Inc.
881FA1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C8-E0-EB (hex) Apple, Inc.
C8E0EB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

98-B8-E3 (hex) Apple, Inc.
98B8E3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

88-53-95 (hex) Apple, Inc.
885395
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

78-6C-1C (hex) Apple, Inc.
786C1C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

4C-8D-79 (hex) Apple, Inc.
4C8D79 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

1C-E6-2B (hex) Apple, Inc.
1CE62B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

24-A2-E1 (hex) Apple, Inc.
24A2E1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

04-21-4C (hex) Insight Energy Ventures LLC
04214C (base 16) Insight Energy Ventures LLC
123 W. Fifth St
Royal Oak MI 48067
US

F8-32-E4 (hex) ASUSTek COMPUTER INC.
F832E4 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

80-EA-96 (hex) Apple, Inc.
80EA96 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

60-03-08 (hex) Apple,
Inc.
600308 (base 16) Apple, Inc.
1 Infinite Loop

Cupertino CA 95014
US

04-F1-3E (hex) Apple, Inc.
04F13E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

98-F0-AB (hex) Apple, Inc.
98F0AB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

08-74-02 (hex) Apple, Inc.
087402 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

94-F6-A3 (hex) Apple, Inc.
94F6A3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

98-E0-D9 (hex) Apple, Inc.
98E0D9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

CC-29-F5 (hex) Apple, Inc.
CC29F5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

28-5A-EB (hex) Apple, Inc.
285AEB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

74-81-14 (hex) Apple, Inc.
748114 (base 16) Apple, Inc.
1 Infinite

Loop
Cupertino CA 95014
US

18-F6-43 (hex) Apple, Inc.
18F643 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A4-5E-60 (hex) Apple, Inc.
A45E60 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A0-18-28 (hex) Apple, Inc.
A01828 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D0-03-4B (hex) Apple, Inc.
D0034B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

24-A0-74 (hex) Apple, Inc.
24A074 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-24-75 (hex) Apple, Inc.
F02475 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

2C-1F-23 (hex) Apple, Inc.
2C1F23 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

54-9F-13 (hex) Apple, Inc.
549F13 (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

F0-DB-E2 (hex) Apple, Inc.
F0DBE2
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

0C-30-21 (hex) Apple, Inc.
0C3021 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

DC-86-D8 (hex) Apple, Inc.
DC86D8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

90-B9-31 (hex) Apple, Inc.
90B931 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D0-E1-40 (hex) Apple, Inc.
D0E140 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

10-41-7F (hex) Apple, Inc.
10417F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A8-66-7F (hex) Apple, Inc.
A8667F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D0-25-98 (hex) Apple, Inc.

D02598 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

78-3A-84 (hex) Apple, Inc.
783A84 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

5C-8D-4E (hex) Apple, Inc.
5C8D4E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

88-63-DF (hex) Apple, Inc.
8863DF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

84-78-8B (hex) Apple, Inc.
84788B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

80-BE-05 (hex) Apple, Inc.
80BE05 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

78-31-C1 (hex) Apple, Inc.
7831C1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

0C-3E-9F (hex) Apple, Inc.
0C3E9F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

FC-FC-48 (hex) Apple, Inc.
FCFC48 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

9C-29-3F (hex) Apple, Inc.
9C293F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

80-A1-AB (hex) Intellisis
80A1AB
(base 16) Intellisis
10350 Science Center Dr
San Diego CA 92121
US

84-28-5A (hex) Saffron Solutions Inc
84285A (base 16) Saffron Solutions Inc
1337 Mass Ave #273
Arlington MA 02476
US

D4-B8-FF (hex) Home Control Singapore Pte Ltd
D4B8FF (base 16) Home Control Singapore Pte Ltd
620A Lorong 1 Toa Payoh
Singapore Singapore 217909
SG

EC-64-E7 (hex) MOCACARE Corporation
EC64E7 (base 16) MOCACARE Corporation
887 Federation Way
Palo Alto CA 94303
US

40-86-2E (hex) JDM MOBILE INTERNET SOLUTION CO., LTD.
40862E (base 16) JDM MOBILE INTERNET SOLUTION CO., LTD.

Jiashan Zhejiang 314100
CN

58-F4-96 (hex) Source Chain
58F496 (base 16) Source Chain
#407-4 eBIZ.Center
Seoul seoul ASI|KR|KS013|SEOUL
KR

88-94-7E (hex) Fiberhome Telecommunication Technologies Co.,LTD
88947E (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan
Hubei 430074
CN

84-A4-23 (hex) Sagemcom Broadband SAS
84A423 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

98-F4-28 (hex) zte corporation
98F428 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

E8-34-3E (hex) Beijing Infosec Technologies Co., LTD.
E8343E (base 16) Beijing Infosec Technologies Co., LTD.
Floor 4, Tower C, Global Finance and News Center
Beijing Beijing 100052
CN

34-69-87 (hex) zte corporation
346987 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

D0-7C-2D (hex) Leie IOT technology Co., Ltd
D07C2D (base 16) Leie IOT technology Co., Ltd
9th floor,Hongchengxintai building,No.105,Yaojiayuan Road,Chaoyang District,Beijing
Beijing Beijing 100026
CN

9C-88-AD (hex) Fiberhome
Telecommunication Technologies Co.,LTD
9C88AD (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

C8-A2-CE (hex) Oasis Media Systems LLC
C8A2CE (base 16) Oasis Media Systems LLC
1073 Barley Sheaf Rd

Flemington NJ 08822
US

3C-78-73 (hex) Airsonics
3C7873 (base 16) Airsonics
1289 Fordham Blvd.
Chapel Hill NC 27514
US

70-BF-3E (hex) Charles River Laboratories
70BF3E (base 16) Charles River Laboratories
1023 Wappoo Road Suite 43B
Charleston SC 29407
US

A8-C8-7F (hex) Roqos, Inc.
A8C87F (base 16) Roqos, Inc.
1775 Greensboro Station Place
Mclean Virginia 22102
US

3C-83-1E (hex) CKD Corporation
3C831E (base 16) CKD Corporation
250, Ouji 2-Chome
Komaki Aichi 485-8551
JP

90-DF-FB (hex) HOMERIDER SYSTEMS
90DFFB (base 16) HOMERIDER SYSTEMS
12 RUE REMORA
GRADIGNAN GIRONDE 33170
FR

2C-08-1C (hex) OVH
2C081C
(base 16) OVH
2, rue Kellermann
Roubaix Nord 59100
FR

C0-84-88 (hex) Finis Inc
C08488 (base 16) Finis Inc
7085-E Las Positas Rd
Livermore CA 94551
US

38-F5-57 (hex) JOLATA, INC.
38F557 (base 16) JOLATA, INC.

2262 N. FIRST ST.
SAN JOSE CA 95134
US

40-54-E4 (hex) Wearsafe Labs Inc
4054E4 (base 16) Wearsafe Labs Inc
1429 Park Street
Hartford CT 06106
US

30-5A-3A (hex) ASUSTek COMPUTER INC.
305A3A (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

58-7F-57 (hex) Apple, Inc.
587F57 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

98-87-44 (hex) Wuxi Hongda Science and Technology Co.,LTD
988744 (base 16) Wuxi Hongda Science and Technology Co.,LTD
No.10 An Nan Road, Nan Quan Town, Bin Hu District
WUXI Jiangsu 214128
CN

A4-CC-32 (hex) Inficomm Co., Ltd
A4CC32 (base
16) Inficomm Co., Ltd
3F, B-31 Building, Tanglang Industry Park, Taoyuan Str, Nanshan District
Shenzhen Guangdong 518055
CN

C4-BB-EA (hex) Pakedge Device and Software Inc
C4BBEA (base 16) Pakedge Device and Software Inc
3847 Breakwater Ave
Hayward CA 94545
US

00-6D-52 (hex) Apple, Inc.
006D52 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

54-A3-FA (hex) BQT Solutions (Australia)Pty Ltd

54A3FA (base 16) BQT Solutions (Australia)Pty Ltd
Unit 29, 1 Talavera Road
North Ryde NSW 2113
AU

A0-32-99 (hex) Lenovo (Beijing) Co., Ltd.
A03299 (base 16) Lenovo (Beijing) Co., Ltd.
No.6, ChuangYe Road,
Haidian District Beijing 100085
CN

AC-EE-9E (hex) Samsung Electronics Co.,Ltd
ACEE9E (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

04-1E-7A (hex) DSPWorks
041E7A (base 16) DSPWorks
12/947, MHB Colony, Gorai Road
Mumbai
400091
IN

38-5F-66 (hex) Cisco SPVTG
385F66 (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

9C-7A-03 (hex) Ciena Corporation
9C7A03 (base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

24-6C-8A (hex) YUKAI Engineering
246C8A (base 16) YUKAI Engineering
16-11-101, Tomihisa, Shinjuku
Tokyo - 162-0067

5C-CF-7F (hex) Espressif Inc.
5CCF7F (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

B8-57-D8 (hex) Samsung Electronics Co.,Ltd
B857D8 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B8-44-D9 (hex) Apple, Inc.
B844D9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

68-12-95 (hex) Lupine Lighting Systems GmbH
681295 (base 16) Lupine Lighting Systems GmbH
Winnberger Weg 11
Neumarkt Bavaria
92318
DE

70-11-AE (hex) Music Life LTD
7011AE (base 16) Music Life LTD
Unit E, 31/F, Billion Centre Tower A
Kowloon N/A 00000
HK

AC-C5-1B (hex) Zhuhai Pantum Electronics Co., Ltd.
ACC51B (base 16) Zhuhai Pantum Electronics Co., Ltd.
Area A, 3rd floor, Building No.1, No.3883, Zhuhai Avenue, Zhuhai, Guangdong, China
Zhuhai Guangdong 519000
CN

1C-49-7B (hex) Gemtek Technology Co., Ltd.
1C497B (base 16) Gemtek Technology Co., Ltd.
No. 1 Jen Ai Road Hsinchu Industrial Park Hukou, Hsinchu 30352 TAIWAN, REPUBLIC OF CHINA
Hsinchu TAIWAN 30352
TW

2C-CF-58 (hex) HUAWEI TECHNOLOGIES CO.,LTD
2CCF58 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D0-93-80 (hex) Ducere Technologies Pvt. Ltd.
D09380 (base 16) Ducere Technologies Pvt. Ltd.
222B West Marredpally
Secunderabad Telangana 500026
IN

68-F9-56 (hex) Objetivos
y Servicio de Valor Añadido
68F956 (base 16) Objetivos y Servicio de Valor Añadido
c/Monte Esquinza, 28 1ºD
MADRID MADRID 28010
ES

84-A7-88 (hex) Perples
84A788 (base 16) Perples
8F, 209 Dosan-daero,
Seoul 135-892
KR

AC-60-B6 (hex) Ericsson AB
AC60B6 (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

14-B3-70 (hex) Gigaset Digital Technology (Shenzhen) Co., Ltd.
14B370 (base 16) Gigaset Digital Technology (Shenzhen) Co., Ltd.
11/F, Matsunichi Building, No.9996 Shen Nan Boulevard, Nan Shan District, Shenzhen, China
ShenZhen Guangdong 518000
CN

68-89-C1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
6889C1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C8-A9-FC (hex) Goyoo Networks Inc.
C8A9FC (base 16) Goyoo Networks Inc.
Building D, Kelin Blocks, No.107, Dongsi North St,
Beijing Beijing
100007
CN

14-3E-BF (hex) zte corporation
143EBF (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

FC-2F-EF (hex) UTT Technologies Co., Ltd.
FC2FEF (base 16) UTT Technologies Co., Ltd.
Room 301, Building 9, No. 518 Xinzhuan

Shanghai Shanghai 201612
CN

FC-FE-C2 (hex) Invensys Controls UK Limited
FCFEC2 (base 16) Invensys Controls UK Limited
401 Southway Drive
Plymouth Devon Pl6 6QT
GB

68-9A-B7 (hex) Atelier Vision Corporation
689AB7 (base 16) Atelier Vision Corporation
888-340 Nakagawa
Hamamatsu Shizuoka 431-1304
JP

4C-B8-2C (hex) Cambridge Mobile Telematics, Inc.
4CB82C (base 16) Cambridge Mobile Telematics, Inc.
One Broadway, 14th Floor
Cambridge MA 02142
US

E4-A3-2F (hex) Shanghai Artimen Technology Co., Ltd.
E4A32F (base 16) Shanghai Artimen Technology Co., Ltd.
Room 4462, Third Building,
No. 505, Xinge Road, Xinqiao Town, SongJiang District, Shanghai City, China
Shanghai Shanghai 201206
CN

7C-2B-E1 (hex) Shenzhen Ferex Electrical Co.,Ltd
7C2BE1 (base 16) Shenzhen Ferex Electrical Co.,Ltd
Block 2,Jiuzhou Industrial Park,Gongming
Shenzhen Guangdong 518107
CN

50-31-AD (hex) ABB Global Industries and Services Private Limited
5031AD (base 16) ABB Global Industries and Services Private Limited
21st floor, World Trade Center
Bangalore Karnataka 560055
IN

A4-C1-38 (hex) Telink Semiconductor (Taipei) Co. Ltd.
A4C138 (base 16) Telink Semiconductor (Taipei) Co. Ltd.
Room 1050. 10F. Buld. H, No. 3-2 YuanQu St.,
Taipei Taipei 11503
TW

20-F5-10 (hex) Codex Digital Limited
20F510 (base 16) Codex Digital Limited

60 Poland Street
London Greater London W1F 7NT
GB

A8-74-1D (hex) PHOENIX CONTACT Electronics GmbH
A8741D (base 16) PHOENIX CONTACT Electronics GmbH
Dringenauer
Str. 30
Bad Pyrmont - D-31812
DE

44-4C-A8 (hex) Arista Networks
444CA8 (base 16) Arista Networks
5453 Great America Parkway
Santa Clara CA 95054
US

A4-8D-3B (hex) Vizio, Inc
A48D3B (base 16) Vizio, Inc
39 Tesla
Irvine CA 92618
US

1C-56-FE (hex) Motorola Mobility LLC, a Lenovo Company
1C56FE (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

04-61-69 (hex) MEDIA GLOBAL LINKS CO., LTD.
046169 (base 16) MEDIA GLOBAL LINKS CO., LTD.
580-16, Horikawa-cho
Kawasaki Kanagawa 212-0013
JP

BC-EB-5F (hex) Fujian Beifeng Telecom Technology Co., Ltd.
BCEB5F (base 16) Fujian Beifeng Telecom Technology Co., Ltd.
A-15, Huaqiao Economic Development Zone, Shuangyang, Luojiang,
quanzhou fujian 362000
CN

F0-9A-51 (hex) Shanghai Viroyal Electronic Technology Company Limited
F09A51 (base 16) Shanghai Viroyal Electronic Technology
Company Limited
LevelB,Building#3,401 Caobao Road,Shanghai,China
Shanghai Shanghai 200233
CN

7C-A2-3E (hex) HUAWEI TECHNOLOGIES CO.,LTD
7CA23E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E0-03-70 (hex) ShenZhen Continental Wireless Technology Co., Ltd.
E00370 (base 16) ShenZhen Continental Wireless Technology Co., Ltd.
North 23F, Dongfang Technology Building,
Shenzhen Guangdong 518057
CN

B8-69-C2 (hex) Sunitec Enterprise Co., Ltd.
B869C2 (base 16) Sunitec Enterprise Co., Ltd.
1F., No.35, Dayong St., Zhonghe Dist.,
New Taipei City Taiwan 235
TW

88-CB-A5 (hex) Suzhou Torchstar Intelligent Technology Co.,Ltd
88CBA5 (base 16) Suzhou Torchstar Intelligent Technology Co.,Ltd
Rm1704B,Business Building, No.181, Cuiyuan Rd.,SIP
Suzhou Jiangsu Province 215000
CN

B8-99-B0 (hex) Cohere Technologies
B899B0 (base
16) Cohere Technologies
404 Saratoga Avenue
Santa Clara CA 95050
US

D8-5D-EF (hex) Busch-Jaeger Elektro GmbH
D85DEF (base 16) Busch-Jaeger Elektro GmbH
Freisenbergstrasse 2
Luedenscheid NRW 58513
DE

88-A2-D7 (hex) HUAWEI TECHNOLOGIES CO.,LTD
88A2D7 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-32-3A (hex) so-logic
00323A (base 16) so-logic
Lustkandlgasse 52
Vienna Vienna 1090
AT

F4-67-2D (hex) ShenZhen Topstar Technology Company
F4672D (base 16) ShenZhen Topstar Technology Company
5/F Buliding 204,Tai Ran ShenZhen Science&Industry Park
ShenZhen GuangZhou 518042
CN

A8-D8-28 (hex) Ascensia Diabetes Care
A8D828 (base 16) Ascensia Diabetes Care
5 Wood Hollow Rd,
Parsippany NJ 07054
US

3C-31-78 (hex) Qolsys Inc.
3C3178 (base 16) Qolsys Inc.
1900 The Alameda
San Jose Ca
95126
US

80-9F-AB (hex) Fiberhome Telecommunication Technologies Co.,LTD
809FAB (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

50-1A-A5 (hex) GN Netcom A/S
501AA5 (base 16) GN Netcom A/S
Lautrupbjerg 7
Ballerup Ballerup DK-2750
DK

E0-4B-45 (hex) Hi-P Electronics Pte Ltd
E04B45 (base 16) Hi-P Electronics Pte Ltd
12 Ang Mo Kio Street 64
Singapore Singapore 569088
SG

F4-6A-92 (hex) SHENZHEN FAST TECHNOLOGIES CO.,LTD
F46A92 (base 16) SHENZHEN FAST TECHNOLOGIES CO.,LTD
Room 202,Building No.5,Section 30,No.2 of Kefa Road,Nanshan District,Shenzhen,P.R.China
Shenzhen Guangdong 518057
CN

F0-D6-57 (hex) ECHOSENS
F0D657 (base 16) ECHOSENS
30 Place d'Italie
PARIS 13 Ile de France 75013

FR

F0-AB-54 (hex) MITSUMI ELECTRIC CO.,LTD.
F0AB54 (base 16) MITSUMI ELECTRIC CO.,LTD.
2-11-2, Tsurumaki
Tama-shi Tokyo 206-8567
JP

14-15-7C
(hex) TOKYO COSMOS ELECTRIC CO.,LTD.
14157C (base 16) TOKYO COSMOS ELECTRIC CO.,LTD.
2-268 Sobudai
Zama Kanagawa 252-8550
JP

20-E4-07 (hex) Spark srl
20E407 (base 16) Spark srl
Via A. Gramsci 86/A
Reggio Emilia 42124
IT

88-73-84 (hex) Toshiba
887384 (base 16) Toshiba
2-9,Suehiro-Cho
Ome Tokyo 1988710
JP

AC-56-2C (hex) LAVA INTERNATIONAL(H.K) LIMITED
AC562C (base 16) LAVA INTERNATIONAL(H.K) LIMITED
UNIT L 1/F MAU LAM COMM BLDG 16-18
Hong Kong
CN

9C-37-F4 (hex) HUAWEI TECHNOLOGIES CO.,LTD
9C37F4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

3C-47-11 (hex) HUAWEI TECHNOLOGIES CO.,LTD
3C4711 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

5C-EB-68 (hex) Cheerstar Technology Co., Ltd
5CEB68

(base 16) Cheerstar Technology Co., Ltd
5th Floor,Hongye Industrial Park,
ShenZhen GuangDong 518006
CN

D0-9D-AB (hex) TCT mobile ltd
D09DAB (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

FC-9A-FA (hex) Motus Global Inc.
FC9AFA (base 16) Motus Global Inc.
5394 Merrick Road
Massapequa NY 11758
US

08-EC-A9 (hex) Samsung Electronics Co.,Ltd
08ECA9 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

AC-5A-14 (hex) Samsung Electronics Co.,Ltd
AC5A14 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

1C-F0-3E (hex) Wearhaus Inc.
1CF03E (base 16) Wearhaus Inc.
2041 Bancroft Way
Berkeley CA 94704
US

C8-E1-30 (hex) Milkyway Group Ltd
C8E130 (base 16) Milkyway Group Ltd
RM 405 Tung Ming Building
Hong Kong Hong Kong 999077
HK

1C-C5-86
(hex) Absolute Acoustics
1CC586 (base 16) Absolute Acoustics
Av. Corifeu de Azevedo Marques, 1703
Sao Paulo 05581-001
BR

24-69-3E (hex) innodisk Corporation
24693E (base 16) innodisk Corporation
5F., No. 237, Sec. 1, Datong Rd., Xizhi Dist.
New Taipei City Taiwan 221
TW

C0-DC-6A (hex) Qingdao Eastsoft Communication Technology Co.,LTD
C0DC6A (base 16) Qingdao Eastsoft Communication Technology Co.,LTD
Shandong QINGDAO, No. 16A, Shangqing Road, Shibei District
QINGDAO Shandong 266023
CN

24-B0-A9 (hex) Shanghai Mobiletek Communication Ltd.
24B0A9 (base 16) Shanghai Mobiletek Communication Ltd.
RM201, Building 9, No 99 Tianzhou RD, Shanghai China
Shanghai Shanghai 200233
CN

40-7F-E0 (hex) Glory Star Technics (ShenZhen) Limited
407FE0 (base 16) Glory Star Technics (ShenZhen) Limited
4/f, West Block, Xi Li Village, Xin Wu Industry Bldg., Nan Shan District, ShenZhen, China
Shenzhen
China
CN

80-50-67 (hex) W & D TECHNOLOGY CORPORATION
805067 (base 16) W & D TECHNOLOGY CORPORATION
1F., NO.22, GONGYEQU 31TH RD
TAICHUNG CITY TAIWAN 40768
TW

78-F9-44 (hex) Private
78F944 (base 16) Private

48-6E-FB (hex) Davit System Technology Co., Ltd.
486EFB (base 16) Davit System Technology Co., Ltd.
#304 Hanlim Human Tower, LS-Ro 172
Gunpo-si Gyeonggi-Do 435-824
KR

B0-96-6C (hex) Lanbowan Technology Ltd.
B0966C (base 16) Lanbowan Technology Ltd.
No. 60 Langbao Xi Road
Foshan Guangdong 528051
CN

5C-5B-35 (hex) Mist Systems, Inc.
5C5B35 (base 16) Mist Systems, Inc.

1601 South De Anza Blvd, Suite 248
Cupertino CA 95014
US

F8-CF-C5 (hex) Motorola Mobility LLC, a Lenovo Company
F8CFC5 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

14-6B-72 (hex) Shenzhen Fortune Ship Technology Co., Ltd.
146B72
(base 16) Shenzhen Fortune Ship Technology Co., Ltd.
Room 701-716, 7th Floor,
Nanshan District, Shenzhen Guangdong 518000
CN

C4-3A-BE (hex) Sony Corporation
C43ABE (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

88-3B-8B (hex) Cheering Connection Co. Ltd.
883B8B (base 16) Cheering Connection Co. Ltd.
Room 602, Shenzhen Software Park T2-B
Shenzhen Guangdong 518057
CN

E4-F9-39 (hex) Minxon Hotel Technology INC.
E4F939 (base 16) Minxon Hotel Technology INC.
3F, No.37, Dongxing Rd., Xinyi Dist.
Taipei Taiwan 11070
TW

70-DA-9C (hex) TECSEN
70DA9C (base 16) TECSEN
$401, Jeongsu Bd, 94-70,
SEOUL NA 150-037
KR

78-40-E4 (hex) Samsung Electronics Co.,Ltd
7840E4 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E0-99-71 (hex) Samsung Electronics Co.,Ltd

E09971 (base 16) Samsung Electronics Co.,Ltd
#94-1,
Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

2C-A2-B4 (hex) Fortify Technologies, LLC
2CA2B4 (base 16) Fortify Technologies, LLC
6200 Shingle Creek Pkwy, Suite 400
Minneapolis Minnesota 55430
US

10-D3-8A (hex) Samsung Electronics Co.,Ltd
10D38A (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

24-76-56 (hex) Shanghai Net Miles Fiber Optics Technology Co., LTD.
247656 (base 16) Shanghai Net Miles Fiber Optics Technology Co., LTD.
Flat F, 17th Floor, Southern International Mansion
Shanghai Shanghai 201401
CN

B8-F0-80 (hex) SPS, INC.
B8F080 (base 16) SPS, INC.
70, Techno8-ro
Yuseong-gu Daejeon 305-500
KR

A4-7B-85 (hex) ULTIMEDIA Co Ltd,
A47B85 (base 16) ULTIMEDIA Co Ltd,
Guro-Gu Saeaml-ro 102
Seoul 152770
KR

EC-BA-FE (hex) GIROPTIC
ECBAFE (base 16) GIROPTIC
165 avenue de Bretagne
Lille Nord 59000
FR

3C-2C-94 (hex) HangZhou
Delan Technology Co.,Ltd
3C2C94 (base 16) HangZhou Delan Technology Co.,Ltd
tianmushan road no.398,Xihu District, hangzhou city, zhejiang province, China
Hangzhou ZheJiang 310013
CN

84-73-03 (hex) Letv Mobile and Intelligent Information Technology (Beijing) Corporation Ltd.
847303 (base 16) Letv Mobile and Intelligent Information Technology (Beijing) Corporation Ltd.
5th floor,Hongchengxintai building,No.105,Yaojiayuan Road,Chaoyang District,Beijing
Beijing Chaoyang 100025
CN

3C-C2-E1 (hex) XINHUA CONTROL ENGINEERING CO.,LTD
3CC2E1 (base 16) XINHUA CONTROL ENGINEERING CO.,LTD
160 Wenjing Road, Minhang
Shanghai Shanghai 200245
CN

E4-85-01 (hex) Geberit International AG
E48501 (base 16) Geberit International AG
Schachenstrasse 77
Jona SG 8645
CH

20-62-74 (hex) Microsoft Corporation
206274 (base 16) Microsoft Corporation
1 Microsoft Way
Redmond Washington
98052
FI

E8-16-2B (hex) IDEO Security Co., Ltd.
E8162B (base 16) IDEO Security Co., Ltd.
1404, Seoul Forest IT Valley, 77, Seongsuil-ro
Seongdong-gu, SEOUL 133-822
KR

24-1B-44 (hex) Hangzhou Tuners Electronics Co., Ltd
241B44 (base 16) Hangzhou Tuners Electronics Co., Ltd
5/F,Building No.1,No.619
BinJiang District, Hangzhou ZheJiang 310053
CN

80-A8-5D (hex) Osterhout Design Group
80A85D (base 16) Osterhout Design Group
153 Townsend Suite 570
San Francisco CA 94107
US

AC-CA-AB (hex) Virtual Electric Inc
ACCAAB (base 16) Virtual Electric Inc
1314 Vanna Ct
San Jose CA 95131

US

48-54-15 (hex) NET RULES TECNOLOGIA EIRELI
485415 (base 16) NET RULES TECNOLOGIA EIRELI
Rua Madre Cabrini, 240 - 7°andar
São Paulo São Paulo 04020000
BR

8C-87-3B (hex) Leica Camera AG
8C873B (base 16) Leica Camera AG
Am Leitz-Park 5
Wetzlar Hessen 35578
DE

E0-FF-F7
(hex) Softiron Inc.
E0FFF7 (base 16) Softiron Inc.
6540 Central Avenue
Newark California 94560
US

D8-93-41 (hex) General Electric Global Research
D89341 (base 16) General Electric Global Research
2623 Camino Ramon
San Ramon CA 94583
US

70-0F-C7 (hex) SHENZHEN IKINLOOP TECHNOLOGY CO.,LTD.
700FC7 (base 16) SHENZHEN IKINLOOP TECHNOLOGY CO.,LTD.
Room 8B,Building C, Tongfang Information Port, Langshan Road, Science
Shenzhen Guangdong 518057
CN

34-9E-34 (hex) Evervictory Electronic Co.Ltd
349E34 (base 16) Evervictory Electronic Co.Ltd
Chu-Chi management district Humen Town, DongGuan GuangDong Province, China
DongGuan GuangDong 523000
CN

BC-74-D7 (hex) HangZhou JuRu Technology CO.,LTD
BC74D7 (base 16) HangZhou JuRu Technology CO.,LTD
No.803 Room,Shuyu Building,No.98 Wenyi West Road,Hangzhou,Zhejiang,China
hangzhou zhejiang 310053
CN

28-D9-8A (hex) Hangzhou Konke Technology Co.,Ltd.
28D98A

(base 16) Hangzhou Konke Technology Co.,Ltd.
Hangzhou cuibai road 7, ROOM 422
Hangzhou Zhejiang 310012
CN

78-EB-14 (hex) SHENZHEN FAST TECHNOLOGIES CO.,LTD
78EB14 (base 16) SHENZHEN FAST TECHNOLOGIES CO.,LTD
Room 202,Building No.5,Section 30,No.2 of Kefa Road,Nanshan District,Shenzhen,P.R.China
Shenzhen Guangdong 518057
CN

3C-49-37 (hex) ASSMANN Electronic GmbH
3C4937 (base 16) ASSMANN Electronic GmbH
Auf dem Schueffel 3
Luedenscheid Germany 58513
DE

84-44-64 (hex) ServerU Inc
844464 (base 16) ServerU Inc
8100 NW 64th Street
Miami FL 33166
US

78-E9-80 (hex) RainUs Co.,Ltd
78E980 (base 16) RainUs Co.,Ltd
E-703, Digital Empire, 16, Deogyeong-daero
Suwon-si Gyeonggi-do 443-702
KR

14-29-71 (hex) NEMOA ELECTRONICS (HK) CO. LTD
142971 (base 16) NEMOA ELECTRONICS (HK) CO. LTD
ROOM 610, MINGYOU PURCHASING & DISPLAYING CENTER,
SHENZHEN GUANGDONG 518000
CN

B4-73-56
(hex) Hangzhou Treebear Networking Co., Ltd.
B47356 (base 16) Hangzhou Treebear Networking Co., Ltd.
2F,Block A, Lianhe Building, 2#, Zijinghua RD, Xihu District
Hangzhou Zhejiang 310012
CN

34-68-95 (hex) Hon Hai Precision Ind. Co.,Ltd.
346895 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

00-35-60 (hex) Rosen Aviation
003560 (base 16) Rosen Aviation
1020 Owen Loop South
Eugene Oregon 97402
US

F8-BC-41 (hex) Rosslare Enterprises Limited
F8BC41 (base 16) Rosslare Enterprises Limited
Flat 912 Wing Fat Industrial Building
Kowloon Bay Kowloon
HK

3C-B7-92 (hex) Hitachi Maxell, Ltd., Optronics Division
3CB792 (base 16) Hitachi Maxell, Ltd., Optronics Division
5030 Totsuka-cho, Totsuka-ku
Yokohama Kanagawa 244-0003
JP

3C-6A-9D (hex) Dexatek Technology LTD.
3C6A9D (base 16) Dexatek Technology
LTD.
15F, NO.81, Sec.1, Xizhi Dist.,
New Taipei City 221
TW

D8-80-39 (hex) Microchip Technology Inc.
D88039 (base 16) Microchip Technology Inc.
2355 W. Chandler Blvd.
Chandler AZ 85224
US

1C-9E-CB (hex) Beijing Nari Smartchip Microelectronics Company Limited
1C9ECB (base 16) Beijing Nari Smartchip Microelectronics Company Limited
Northern Territory Xixiaokou Rd,Haidian district,Beijing 100192,China
beijing beijing 100192
CN

DC-C6-22 (hex) BUHEUNG SYSTEM
DCC622 (base 16) BUHEUNG SYSTEM
302, 45, Jeonpa-ro, 24 Beongil
Anyang-si Gyeonggi-do 430-857
KR

90-2C-C7 (hex) C-MAX Asia Limited
902CC7 (base 16) C-MAX Asia Limited
Unit 117, 1/F, Liven House
Kwun Tong Kowloon 852
HK

94-C0-38 (hex) Tallac Networks
94C038 (base 16) Tallac Networks
6528 Lonetree Blvd.
Rocklin CA 95765
US

68-36-B5 (hex) DriveScale, Inc.
6836B5 (base 16) DriveScale, Inc.
530 Lakeside
Dr. #190
Sunnyvale CALIFORNIA 94085
US

70-FF-5C (hex) Cheerzing Communication(Xiamen)Technology Co.,Ltd
70FF5C (base 16) Cheerzing Communication(Xiamen)Technology Co.,Ltd
Room N514,North Torch Building,5 Torch Road
Xiamen Fujian 361005
CN

58-21-36 (hex) KMB systems, s.r.o.
582136 (base 16) KMB systems, s.r.o.
Dr. M. Horakove 559
Liberec Czech Republic 46006
CZ

80-09-02 (hex) Keysight Technologies, Inc.
800902 (base 16) Keysight Technologies, Inc.
1400 Fountaingrove Pkwy.
Santa Rosa CA 95403
US

04-99-E6 (hex) Shenzhen Yoostar Technology Co., Ltd
0499E6 (base 16) Shenzhen Yoostar Technology Co., Ltd
#503Tower D, HUA HAN Innovation Park,
Shenzhen Guangdong 518000
CN

C4-08-80 (hex) Shenzhen UTEPO Tech Co., Ltd.
C40880 (base 16) Shenzhen UTEPO Tech Co., Ltd.
5/F Western Block, M-8 Building,
Shenzhen Guangdong 518057
CN

F8-B2-F3 (hex) GUANGZHOU BOSMA TECHNOLOGY
CO.,LTD
F8B2F3 (base 16) GUANGZHOU BOSMA TECHNOLOGY CO.,LTD
FL.3,A5,No.11 Kaiyuan Ave., Scienc City,Guangzhou,CHINA

Guangzhou GuangDong 510530
CN

5C-96-6A (hex) RTNET
5C966A (base 16) RTNET
827-64, Yeoksam-dong, Kangnam-Gu
Seoul - 135-080
KR

88-70-EF (hex) SC Professional Trading Co., Ltd.
8870EF (base 16) SC Professional Trading Co., Ltd.
2 Soi Krungthepkreetar 21
Sapansoong Bangkok 10250
TH

BC-BC-46 (hex) SKS Welding Systems GmbH
BCBC46 (base 16) SKS Welding Systems GmbH
Marie-Curie-Str. 14
Kaiserslautern Rheinlandpfalz 67661
DE

38-B1-DB (hex) Hon Hai Precision Ind. Co.,Ltd.
38B1DB (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

34-F6-D2 (hex) Panasonic Taiwan Co.,Ltd.
34F6D2 (base 16) Panasonic Taiwan Co.,Ltd.
579,Yuan Shan Road
New Taipei Taiwan 235

30-75-12 (hex) Sony Corporation
307512
(base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

D4-8F-33 (hex) Microsoft Corporation
D48F33 (base 16) Microsoft Corporation
1 Microsoft Way
Redmond Washington 98052
FI

34-B7-FD (hex) Guangzhou Younghead Electronic Technology Co.,Ltd
34B7FD (base 16) Guangzhou Younghead Electronic Technology Co.,Ltd

Room 206,Wenzhenxin Building,Block 3, No.2 Kefa RD,Hi-Tech Park, Nanshan District, Shenzhen,China
Shenzhen Guangdong 518052
CN

B4-7C-29 (hex) Shenzhen Guzidi Technology Co.,Ltd
B47C29 (base 16) Shenzhen Guzidi Technology Co.,Ltd
South 6/F,Yingtang Building,No.5 Kejiyuan Road,Nanshan District,Shenzhen City,Guangdong Province,P.R. China
Shenzhen Guangdong 518000
CN

54-F8-76 (hex) ABB AG
54F876 (base 16) ABB AG
Trafoweg 4
Halle / Saale Saxony-Anhalt 06112
DE

84-93-0C (hex) InCoax Networks Europe AB
84930C (base 16) InCoax Networks Europe AB
Strommavagen
2
Gavle Sweden 80309
SE

1C-A2-B1 (hex) ruwido austria gmbh
1CA2B1 (base 16) ruwido austria gmbh
Koestendorferstrasse 8
Neumarkt a.W. Salzburg 5202
AT

38-4B-76 (hex) AIRTAME ApS
384B76 (base 16) AIRTAME ApS
Vestergade 20C
Copenhagen C Copenhagen 1456
DK

20-5C-FA (hex) Yangzhou ChangLian Network Technology Co,ltd.
205CFA (base 16) Yangzhou ChangLian Network Technology Co,ltd.
No.60, Shangfang Temple Road
Yangzhou City Jiangsu 225000
CN

64-00-2D (hex) Powerlinq Co., LTD
64002D (base 16) Powerlinq Co., LTD
13 PingDong Road 4 ,
Zhuhai GD 519060

98-16-EC (hex) IC Intracom

9816EC (base 16) IC Intracom
550 Commerce Blvd
Oldsmar Florida 34677
US

D0-62-A0 (hex) China Essence Technology (Zhumadian) Co., Ltd.
D062A0 (base 16) China Essence Technology (Zhumadian) Co., Ltd.
4th Floor, Administrative Service Center Office of Yicheng District
Zhumadian Henan
Province 463000
CN

90-17-9B (hex) Nanomegas
90179B (base 16) Nanomegas
BD Ed.Machtens 79/22
BXL Molenbeek 1080
BE

14-F8-93 (hex) Wuhan FiberHome Digital Technology Co.,Ltd.
14F893 (base 16) Wuhan FiberHome Digital Technology Co.,Ltd.
No.88 YouKeyuan Road
Wuhan Hubei 430074
CN

48-9D-18 (hex) Flashbay Limited
489D18 (base 16) Flashbay Limited
6 The Fountain Centre
London London SW6 2TW
GB

4C-48-DA (hex) Beijing Autelan Technology Co.,Ltd
4C48DA (base 16) Beijing Autelan Technology Co.,Ltd
1-4F, 3rd Area, 9#Building Zhongguancun Software Park
Beijing 100193
CN

4C-BB-58 (hex) Chicony Electronics Co., Ltd.
4CBB58 (base 16) Chicony Electronics Co., Ltd.
No.25, Wugong 6th Rd., Wugu Dist.,
New Taipei City 248, TAIWAN, REPUBLIC OF CHINA 248
TW

A4-12-42 (hex) NEC Platforms, Ltd.
A41242 (base 16) NEC Platforms, Ltd.
800 Shimomata
Kakegawa Shizuoka 436-8501
JP

C4-00-06
(hex) Lipi Data Systems Ltd.
C40006 (base 16) Lipi Data Systems Ltd.
Mewar Industrial Area (M.I.A)
UDAIPUR RAJASTHAN 313003
IN

D8-0C-CF (hex) C.G.V. S.A.S.
D80CCF (base 16) C.G.V. S.A.S.
18, RUE THEODORE MONOD
OSTWALD CEDEX BAS-RHIN 67541
FR

60-48-26 (hex) Newbridge Technologies Int. Ltd.
604826 (base 16) Newbridge Technologies Int. Ltd.
35/F Central Plaza
Hong Kong
CN

38-F3-3F (hex) TATSUNO CORPORATION
38F33F (base 16) TATSUNO CORPORATION
2-6,Mita 3-Chome,Minato-ku
Tokyo 108-8520
JP

B4-17-80 (hex) DTI Group Ltd
B41780 (base 16) DTI Group Ltd
50 Affleck Rd
Perth Airport Western Australia 6105
AU

90-20-3A (hex) BYD Precision Manufacture Co.,Ltd
90203A (base 16) BYD Precision Manufacture Co.,Ltd
Building 23#NO.3009 BYD RoadPingshan
Shenzhen Guangdong 518118
CN

D0-0A-AB (hex) Yokogawa Digital Computer Corporation
D00AAB (base
16) Yokogawa Digital Computer Corporation
Shinjuku MIDWEST Bldg.4-30-3
Yoyogi Shibuya-ku, Tokyo 151-0053
JP

20-A9-9B (hex) Microsoft Corporation
20A99B (base 16) Microsoft Corporation
1 Microsoft Way
Redmond Washington 98052

FI

38-26-2B (hex) UTran Technology
38262B (base 16) UTran Technology
No.130, Guoji Rd., Tucheng Dist.,
New Taipei City 23650
TW

48-0C-49 (hex) NAKAYO Inc
480C49 (base 16) NAKAYO Inc
Development Support Center 165 Higashiomuro-machi
Maebashi-shi Gunma 379-2105
JP

3C-D9-CE (hex) Eclipse WiFi
3CD9CE (base 16) Eclipse WiFi
68 S Service Rd
Melville NY 11747
US

60-77-E2 (hex) Samsung Electronics Co.,Ltd
6077E2 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

FC-19-10 (hex) Samsung Electronics Co.,Ltd
FC1910 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

3C-A1-0D
(hex) Samsung Electronics Co.,Ltd
3CA10D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

64-6C-B2 (hex) Samsung Electronics Co.,Ltd
646CB2 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

68-05-71 (hex) Samsung Electronics Co.,Ltd
680571 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong

Gumi Gyeongbuk 730-350
KR

FC-79-0B (hex) Hitachi High Technologies America, Inc.
FC790B (base 16) Hitachi High Technologies America, Inc.
208 Fairforest Way
Greenville SC 29607
US

60-81-F9 (hex) Helium Systems, Inc
6081F9 (base 16) Helium Systems, Inc
717 Market Street
San Francisco CA 94102
US

F4-C4-47 (hex) Coagent International Enterprise Limited
F4C447 (base 16) Coagent International Enterprise Limited
FLAT/RM 2 6F CROWN TND BLDG 106 HOW MING ST KWUN TONG
Hong Kong Hong Kong 528133
CN

A4-3D-78
(hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
A43D78 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

A0-FC-6E (hex) Telegrafia a.s.
A0FC6E (base 16) Telegrafia a.s.
Lomena 7
Kosice Slovakia 040 01

20-53-CA (hex) Risk Technology Ltd
2053CA (base 16) Risk Technology Ltd
Matrix House, Merlin Court
Altrincham Cheshire WA14 5NL
GB

98-F1-70 (hex) Murata Manufacturing Co., Ltd.
98F170 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

04-C9-91 (hex) Phistek INC.
04C991 (base 16) Phistek INC.

5 Floor, No.188, Section 3, Datong Road
New Taipei City 221
TW

68-6E-48 (hex) Prophet Electronic Technology Corp.,Ltd
686E48 (base 16) Prophet Electronic Technology Corp.,Ltd
9F ,3 Building,No 1535,Hongmei Road ,Xuhui District
Shanghai Shanghai
200233
CN

14-B4-84 (hex) Samsung Electronics Co.,Ltd
14B484 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C4-C9-EC (hex) Gugaoo HK Limited
C4C9EC (base 16) Gugaoo HK Limited
Unit 04, 7/F BRIGHT WAY TOWER
Kowloon, Hongkong
HK

84-01-A7 (hex) Greyware Automation Products, Inc
8401A7 (base 16) Greyware Automation Products, Inc
308 Oriole Ct
Murphy TX 75094
US

C4-62-6B (hex) ZPT Vigantice
C4626B (base 16) ZPT Vigantice
Vigantice 266
Roznov pod Radhostem 75661
CZ

EC-17-66 (hex) Research Centre Module
EC1766 (base 16) Research Centre Module
3 Eight March 4Th Street
Moscow Moscow 125190
RU

A0-D1-2A (hex) AXPRO Technology Inc.
A0D12A (base 16) AXPRO Technology Inc.
8F, No.128, sec. 4 Chung Hsiao E. RD.,
Taipei city 10866
TW

50-C7-BF (hex) TP-LINK TECHNOLOGIES CO.,LTD.

50C7BF (base 16) TP-LINK TECHNOLOGIES
CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

20-9A-E9 (hex) Volacomm Co., Ltd
209AE9 (base 16) Volacomm Co., Ltd
15F-6., No.7, Sec.3, New Taipei Blvd., Xinzhuang Dist., New Taipei City 242., Taiwan (R.O.C)
Xinzhuang Dist. New Taipei City 242
TW

34-5D-10 (hex) Wytek
345D10 (base 16) Wytek
10 rue jean jaures
Poitiers 86000
FR

6C-14-F7 (hex) Erhardt+Leimer GmbH
6C14F7 (base 16) Erhardt+Leimer GmbH
Albert-Leimer-Platz 1
Stadtbergen 86391
DE

AC-A9-A0 (hex) Audioengine, Ltd.
ACA9A0 (base 16) Audioengine, Ltd.
1535 Dido Mt Salem Rd
Ackerman Ms 39735
US

A4-81-EE (hex) Nokia Corporation
A481EE (base 16) Nokia Corporation
Joensuunkatu 7
Salo N.A. 24101
FI

78-D6-6F (hex) Aristocrat Technologies Australia Pty. Ltd.
78D66F (base 16) Aristocrat Technologies Australia
Pty. Ltd.
Building A, Pinnacle Office Park
North Ryde N.S.W. 2113
AU

44-1E-91 (hex) ARVIDA Intelligent Electronics Technology Co.,Ltd.
441E91 (base 16) ARVIDA Intelligent Electronics Technology Co.,Ltd.
No.3 Qiliang Road.,
Danyang Jiangsu 212300
CN

B0-D5-9D (hex) Shenzhen Zowee Technology Co., Ltd
B0D59D (base 16) Shenzhen Zowee Technology Co., Ltd
Block 5 ZOWEE Technology Building),
Pingshan, Xili Town, Nanshan District Shenzhen, Guangdong 518055
CN

68-28-BA (hex) Dejai
6828BA (base 16) Dejai
PO Box 101
Toorak Vic 3142
AU

34-E4-2A (hex) Automatic Bar Controls Inc.
34E42A (base 16) Automatic Bar Controls Inc.
790 Eubanks Dr
Vacaville CA 95688
US

20-A7-87 (hex) Bointec Taiwan Corporation Limited
20A787 (base 16) Bointec Taiwan Corporation Limited
1F, A20, L790, SEC.5,
TAIPEI TAIWAN 11082
TW

A4-9F-85 (hex) Lyve Minds, Inc
A49F85 (base 16) Lyve
Minds, Inc
10001 N. De Anza Blvd, Ste 300
Cupertino CA 95014
US

04-57-2F (hex) Sertel Electronics UK Ltd
04572F (base 16) Sertel Electronics UK Ltd
Rutland House, 148 Edmund Street,
Birmingham B3 2FD
GB

D8-97-7C (hex) Grey Innovation
D8977C (base 16) Grey Innovation
255 Mary St
Richmond Victoria 3121
AU

20-5A-00 (hex) Coval
205A00 (base 16) Coval
ZA Les Petits Champs
MONTELIER Drome 26120

FR

A8-A6-68 (hex) zte corporation
A8A668 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

BC-8D-0E (hex) Nokia
BC8D0E (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

78-92-3E (hex) Nokia Corporation
78923E (base 16) Nokia Corporation
Joensuunkatu 7
Salo N.A. 24101
FI

00-EE-BD (hex) HTC Corporation
00EEBD (base 16) HTC Corporation
No. 23, Xinghua Rd., Taoyuan City
Taoyuan
County Taiwan 330
TW

A8-24-EB (hex) ZAO NPO Introtest
A824EB (base 16) ZAO NPO Introtest
Studencheskaya st. 55
Ekaterinburg Sverdlovsk region 620078
RU

48-EE-07 (hex) Silver Palm Technologies LLC
48EE07 (base 16) Silver Palm Technologies LLC
9639 DOCTOR PERRY RD STE 123N
IJAMSVILLE Maryland 21754
US

38-F7-08 (hex) National Resource Management, Inc.
38F708 (base 16) National Resource Management, Inc.
480 Neponset St. Bldg. #2
Canton MA 02021
US

E0-DB-88 (hex) Open Standard Digital-IF Interface for SATCOM Systems
E0DB88 (base 16) Open Standard Digital-IF Interface for SATCOM Systems
3090 Raritan Ave

Aberdeen Proving Ground MD 21001
US

C4-0E-45 (hex) ACK Networks,Inc.
C40E45 (base 16) ACK Networks,Inc.
Floor3,Building B.,No.1 ShangDi XinXi Rd.
Beijing 100085
CN

3C-89-A6 (hex) KAPELSE
3C89A6 (base 16) KAPELSE
5 Allee De Saint-Cloud
54600
Villers Les Nancy
FR

A4-6C-C1 (hex) LTi REEnergy GmbH
A46CC1 (base 16) LTi REEnergy GmbH
Heinrich-Hertz-Straße 18
Unna North Rhine-Westfalia 59423
DE

A8-B9-B3 (hex) ESSYS
A8B9B3 (base 16) ESSYS
Daerung Post Tower 5 15F
Seoul Gasan-Dong, Geumchen-gu 153-702
KR

6C-09-D6 (hex) Digiquest Electronics LTD
6C09D6 (base 16) Digiquest Electronics LTD
26 Park House
London NW11 7PT
GB

48-18-42 (hex) Shanghai Winaas Co. Equipment Co. Ltd.
481842 (base 16) Shanghai Winaas Co. Equipment Co. Ltd.
8F Building A, WanDa Square
Shanghai 200433
CN

44-70-98 (hex) MING HONG TECHNOLOGY (SHEN ZHEN) LIMITED
447098 (base 16) MING HONG TECHNOLOGY (SHEN ZHEN) LIMITED
Unit 906,South Block,Resources Tech Building,
Shenzhen Guangdong province 518000
CN

B0-57-06 (hex) Vallox Oy
B05706 (base 16) Vallox Oy

Myllykylantie 9-11
Loimaa 32200
FI

9C-BD-9D (hex) SkyDisk, Inc.
9CBD9D
(base 16) SkyDisk, Inc.
2F Tenjin central place,
Fukuoka-shi Fukuoka 810-0001
JP

74-C6-21 (hex) Zhejiang Hite Renewable Energy Co.,LTD
74C621 (base 16) Zhejiang Hite Renewable Energy Co.,LTD
NO1320,2th Ring Road(South)
Tongxiang City Zhejiang Province 314500
CN

D4-31-9D (hex) Sinwatec
D4319D (base 16) Sinwatec
76 Rikhard Zorge st.
Ufa Bashkortostan 450075
RU

B0-68-B6 (hex) Hangzhou OYE Technology Co. Ltd
B068B6 (base 16) Hangzhou OYE Technology Co. Ltd
Room 202 Building 12 Wenxinrenjia,
Hangzhou Zhejiang 310051
CN

2C-53-4A (hex) Shenzhen Winyao Electronic Limited
2C534A (base 16) Shenzhen Winyao Electronic Limited
7B Block A Fuqiao Building Fuhua Road
Shen Zhen Guangdong 518000
CN

A4-BB-AF (hex) Lime Instruments
A4BBAF (base 16) Lime Instruments
1187 Brittmoore Road
Houston TX 77043
US

F4-90-CA (hex) Tensorcom
F490CA (base 16) Tensorcom
5900
Pastuer Ct., Suite 105
Carlsbad CA 92008
US

28-22-46 (hex) Beijing Sinoix Communication Co., LTD
282246 (base 16) Beijing Sinoix Communication Co., LTD
Gehua Tower Room 603
Beijing 100000
CN

9C-65-F9 (hex) AcSiP Technology Corp.
9C65F9 (base 16) AcSiP Technology Corp.
3F-1, No. 207, Fusing Rd.
Taoyuan Taiwan 33066
TW

48-76-04 (hex) Private
487604 (base 16) Private

E4-4C-6C (hex) Shenzhen Guo Wei Electronic Co,. Ltd.
E44C6C (base 16) Shenzhen Guo Wei Electronic Co,. Ltd.
No 3038, Lo Sha Road, Liantang
Shenzhen Guangdong 518004
CN

A8-57-4E (hex) TP-LINK TECHNOLOGIES CO.,LTD.
A8574E (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

B8-43-E4 (hex) Vlatacom
B843E4 (base 16) Vlatacom
Milutina Milankovica 5
Belgrade Serbia 11080
RS

C4-82-4E
(hex) Changzhou Uchip Electronics Co., LTD.
C4824E (base 16) Changzhou Uchip Electronics Co., LTD.
Room1801~1802,
Shanghai 201206
CN

48-B9-77 (hex) PulseOn Oy
48B977 (base 16) PulseOn Oy
Tekniikantie 12
ESPOO Uusimaa 02150
FI

64-E6-25 (hex) Woxu Wireless Co., Ltd
64E625 (base 16) Woxu Wireless Co., Ltd

B103 Building1 No.6 Changjianghoujie
Nanjing 210000
US

10-B7-13 (hex) Private
10B713 (base 16) Private

20-89-86 (hex) zte corporation
208986 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

B8-26-6C (hex) ANOV France
B8266C (base 16) ANOV France
Chemin de Baillot
Montauban Tarn & Garonne 82000
FR

18-20-12 (hex) Aztech Associates Inc.
182012 (base 16) Aztech Associates Inc.
805 Bayridge Dr.
Kingston Ontario K7P1T5
CA

3C-30-0C (hex) Dewar Electronics Pty Ltd
3C300C
(base 16) Dewar Electronics Pty Ltd
32 Taylors Road
Croydon Victoria 3136
AU

98-FF-D0 (hex) Lenovo Mobile Communication Technology Ltd.
98FFD0 (base 16) Lenovo Mobile Communication Technology Ltd.
No.999,Qishan North 2nd Road
Xiamen Fujian 361006
CN

44-C5-6F (hex) NGN Easy Satfinder (Tianjin) Electronic Co., Ltd
44C56F (base 16) NGN Easy Satfinder (Tianjin) Electronic Co., Ltd
A4, Sifang Hi-tech Building, Nankai Hi-tech Industry Area, Ya'an Road, Nankai District
Tianjin 300113
US

B8-98-F7 (hex) Gionee Communication Equipment Co,Ltd.ShenZhen
B898F7 (base 16) Gionee Communication Equipment Co,Ltd.ShenZhen
21/F Times Technology Building, 7028 Shennan Road,
Shenzhen Guangdong 518040

CN

84-83-36 (hex) Newrun
848336 (base 16) Newrun
#803 IT Convergence Industry Bldg., Kyungpook National Univ.
Daegu N/A 702-010
KR

70-71-B3 (hex) Brain Corporation
7071B3 (base 16) Brain Corporation
5665
Morehouse Dr.
San Diego CA 92121
US

5C-2A-EF (hex) r2p Asia-Pacific Pty Ltd
5C2AEF (base 16) r2p Asia-Pacific Pty Ltd
Unit 5, 18 Lexington Avenue, Bella Vista
Sydney NSW 2153
AU

B8-7A-C9 (hex) Siemens Ltd.
B87AC9 (base 16) Siemens Ltd.
885 Mountain Hwy
Bayswater Victoria 3153
AU

F0-61-30 (hex) Advantage Pharmacy Services, LLC
F06130 (base 16) Advantage Pharmacy Services, LLC
PO Box 7
Madison MO 39130-0007
US

88-FE-D6 (hex) ShangHai WangYong Software Co., Ltd.
88FED6 (base 16) ShangHai WangYong Software Co., Ltd.
Shanghai Pudong Zhangjiang Hi-Tech Park,
Pudong Software Park 22301-283 ShangHai 201203
CN

7C-72-E4 (hex) Unikey Technologies
7C72E4 (base 16) Unikey Technologies
2250 Lee Rd
Winter Park FL 32789
US

7C-20-48 (hex) KoamTac
7C2048 (base 16) KoamTac
116 Village Boulevard

Princeton New Jersey 08540
US

8C-B7-F7
(hex) Shenzhen UniStrong Science & Technology Co., Ltd
8CB7F7 (base 16) Shenzhen UniStrong Science & Technology Co., Ltd
17/F, Global Digital Bldg, Hi-tech Park
Shen zhen Guang dong 518000
CN

08-40-27 (hex) Gridstore Inc.
084027 (base 16) Gridstore Inc.
1975 Landings Dr.
Mountain View CA 94043
US

A4-77-60 (hex) Nokia Corporation
A47760 (base 16) Nokia Corporation
Joensuunkatu 7
Salo N.A. 24101
FI

C8-56-63 (hex) Sunflex Europe GmbH
C85663 (base 16) Sunflex Europe GmbH
Konrad-Zuse-Str. 13
Schwerte NRW 58239
DE

38-BF-2F (hex) Espec Corp.
38BF2F (base 16) Espec Corp.
5-2-5 Kanokodai Minamimachi
Kobe City Hyogo 561-1514
JP

A8-75-E2 (hex) Aventura Technologies, Inc.
A875E2 (base 16) Aventura Technologies, Inc.
48 Mall Drive
Commack NY 11725
US

44-C4-A9 (hex) Opticom Communication, LLC
44C4A9 (base 16) Opticom Communication, LLC
1050 Connecticut Avenue,
NW
Washington DC 20036
US

6C-3C-53 (hex) SoundHawk Corp

6C3C53 (base 16) SoundHawk Corp
20380 Town Center Lane
Cupertino Ca 95014
US

1C-63-B7 (hex) OpenProducts 237 AB
1C63B7 (base 16) OpenProducts 237 AB
Barsebacksvagen 27
Loddekopinge 24630
SE

B4-52-7E (hex) Sony Corporation
B4527E (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

18-AA-45 (hex) Fon Technology
18AA45 (base 16) Fon Technology
C/Quintanavides, 15 Edificio 2 Planta 1

ES

94-B9-B4 (hex) Aptos Technology
94B9B4 (base 16) Aptos Technology
5F., No.65, Guangfu N. Rd., Zhongxing Vil.,
Hsinchu 303
TW

90-20-83 (hex) General Engine Management Systems Ltd.
902083 (base 16) General Engine Management Systems Ltd.
GEMS
Egham Surrey TW208RN
GB

14-B1-26 (hex) Industrial Software Co
14B126 (base 16) Industrial Software Co
85, Aleksandyr Malinov
Blvd. Office 6
Sofia 1715
BG

D8-50-E6 (hex) ASUSTek COMPUTER INC.
D850E6 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

DC-3E-F8 (hex) Nokia Corporation
DC3EF8 (base 16) Nokia Corporation
Joensuunkatu 7
Salo N.A. 24101
FI

A4-9F-89 (hex) Shanghai Rui Rui Communication Technology Co.Ltd.
A49F89 (base 16) Shanghai Rui Rui Communication Technology Co.Ltd.
Room 1130,Building No.1
ShangHai 201199
CN

E4-77-23 (hex) zte corporation
E47723 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

9C-A9-E4 (hex) zte corporation
9CA9E4 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

90-F3-B7 (hex) Kirisun Communications Co., Ltd.
90F3B7 (base 16) Kirisun Communications Co., Ltd.
3-6Flrs, ROBETA Building,
1 QiMin Road, Songping Shan Area, Science & Industry Park, Nanshan District
Shenzhen GuangDong 518057
US

18-0C-14 (hex) iSonea Limited
180C14 (base 16) iSonea Limited
125 South Tremont Street
Oceanside CA 92054
US

C4-E9-2F (hex) AB Sciex
C4E92F (base 16) AB Sciex
71 Four Valley Drive
Concord Ontario L4K 4V8
US

A8-8D-7B (hex) SunDroid Global limited.
A88D7B (base 16) SunDroid Global limited.
Room 1305B, Fiyta Science Building,
Shenzhen Guang Dong 518057
CN

70-60-DE (hex) LaVision GmbH
7060DE (base 16) LaVision GmbH
Anna-Vandenhoeck-Ring 19
Goettingen Niedersachsen 37081
DE

50-2E-5C (hex) HTC Corporation
502E5C (base 16) HTC Corporation
No. 23, Xinghua Rd., Taoyuan City
Taoyuan County Taiwan 330
TW

3C-F7-48 (hex) Shenzhen Linsn Technology Development Co.,Ltd
3CF748 (base 16) Shenzhen Linsn Technology Development Co.,Ltd
Floor 4,Block 7,Zone 2,Baiwangxin
Industrial Park
Shenzhen Guangdong 518055
CN

6C-15-F9 (hex) Nautronix Limited
6C15F9 (base 16) Nautronix Limited
Blackwood House
Aberdeen AB10 6XU
GB

64-3F-5F (hex) Exablaze
643F5F (base 16) Exablaze
Level 6
Sydney NSW 2000
AU

FC-FE-77 (hex) Hitachi Reftechno, Inc.
FCFE77 (base 16) Hitachi Reftechno, Inc.
709-2 Tomita
Tochigi-shi Tochigi-ken 329-4404
JP

70-53-3F (hex) Alfa Instrumentos Eletronicos Ltda.
70533F (base 16) Alfa Instrumentos Eletronicos Ltda.
Rua Coronel Mario de Azevedo, 138
Sao Paulo SP 02710-020
BR

38-B7-4D (hex) Fijowave Limited
38B74D (base 16) Fijowave Limited
Synergy Centre
Dublin 24

IE

50-C2-71 (hex) SECURETECH INC
50C271 (base 16) SECURETECH INC
#304, 799 Kwanyang-dong, Dongan-gu,
Anyang-ci Gyunggi-do 431-767
KR

40-7A-80 (hex) Nokia Corporation
407A80 (base 16) Nokia Corporation
Joensuunkatu 7
Salo
N.A. 24101
FI

B0-79-08 (hex) Cummings Engineering
B07908 (base 16) Cummings Engineering
145 S. 79th St., Ste. 26
Chandler AZ 85226
US

04-4F-8B (hex) Adapteva, Inc.
044F8B (base 16) Adapteva, Inc.
1666 Massachusetts Ave
Lexington MA 02420
US

9C-E7-BD (hex) Winduskorea co., Ltd
9CE7BD (base 16) Winduskorea co., Ltd
RM313, Seoul-Garden Bldg,
Seoul 152-828
KR

38-42-A6 (hex) Ingenieurbuero Stahlkopf
3842A6 (base 16) Ingenieurbuero Stahlkopf
Ingenieurbuero Stahlkopf
Glockengießerweg 2 Bielefeld 33659
DE

64-42-14 (hex) Swisscom Energy Solutions AG
644214 (base 16) Swisscom Energy Solutions AG
Solothurnerstrasse 19
Olten 4600
CH

0C-A6-94 (hex) Sunitec Enterprise Co.,Ltd
0CA694 (base 16) Sunitec Enterprise Co.,Ltd
3F.,No.98-1,Mincyuan Rd.Sindian City

Taipei County 231 231141
CN

18-44-62 (hex) Riava Networks, Inc.
184462 (base 16) Riava
Networks, Inc.
Kato Bldg. 1F, 6-12-4 Soto-Kanda
Chiyoda-ku Tokyo 1010021
JP

14-60-80 (hex) zte corporation
146080 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

9C-BB-98 (hex) Shen Zhen RND Electronic Co.,LTD
9CBB98 (base 16) Shen Zhen RND Electronic Co.,LTD
G315,Hua Chuang Da business Certer
Shen Zhen Guang Dong 518000
CN

54-FB-58 (hex) WISEWARE, Lda
54FB58 (base 16) WISEWARE, Lda
Centro Social e Administrativo da ZIV
Zona Industrial de Vagos Portugal 3840-385
PT

2C-CD-69 (hex) Aqavi.com
2CCD69 (base 16) Aqavi.com
3 Riverway
Houston TX 77056
US

8C-2F-39 (hex) IBA Dosimetry GmbH
8C2F39 (base 16) IBA Dosimetry GmbH
Bahnhofstrasse 5
Schwarzenbruck 90592
DE

C0-A0-BB (hex) D-Link International
C0A0BB (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore
Singapore 609917
SG

34-4F-3F (hex) IO-Power Technology Co., Ltd.

344F3F (base 16) IO-Power Technology Co., Ltd.
1F., No.100,
Hsinchu City 30055
TW

14-46-E4 (hex) AVISTEL
1446E4 (base 16) AVISTEL
15 rue Auguste Bartholdi
Carrieres sur Seine 78420
FR

D0-95-C7 (hex) Pantech Co., Ltd.
D095C7 (base 16) Pantech Co., Ltd.
110-1 Ongjeong-Ri, Tongjin-Eup
Gimpo-Si Gyounggi-Do 415-865
KR

D0-2C-45 (hex) littleBits Electronics, Inc.
D02C45 (base 16) littleBits Electronics, Inc.
60 E. 11th Street
New York NY 10003
US

24-80-00 (hex) Westcontrol AS
248000 (base 16) Westcontrol AS
Breivikvg 7
Joerpeland - 4100
US

1C-4B-B9 (hex) SMG ENTERPRISE, LLC
1C4BB9 (base 16) SMG ENTERPRISE, LLC
865 LOVE ST
ELK GROVE VILLAGE IL 60007
US

34-61-78 (hex) The Boeing Company
346178 (base 16) The Boeing Company
325 James S. McDonnell Blvd
Hazelwood
MO 63042-2513
US

C0-35-80 (hex) A&R TECH
C03580 (base 16) A&R TECH
Marksteinergasse 13
Vienna 1210
AT

D0-8A-55 (hex) Skullcandy
D08A55 (base 16) Skullcandy
1441 Ute blvd.
Park City Utah 84098
US

CC-72-0F (hex) Viscount Systems Inc.
CC720F (base 16) Viscount Systems Inc.
4585 Tillicum Street
Burnaby British Columbia V5J 5K9
CA

74-2B-62 (hex) FUJITSU LIMITED
742B62 (base 16) FUJITSU LIMITED
403, Kosugi-cho 1-chome, Nakahara-ku
Kawasaki Kanagawa 211-0063
JP

B4-A8-2B (hex) Histar Digital Electronics Co., Ltd.
B4A82B (base 16) Histar Digital Electronics Co., Ltd.
Room 616,Block A,
Shenzhen Baoan 518133
CN

28-4D-92 (hex) Luminator
284D92 (base 16) Luminator
900 Klein Road
Plano Texas 75074
US

94-0B-D5 (hex) Himax Technologies, Inc
940BD5 (base 16) Himax Technologies, Inc
No.26, Zilian Rd., Xinshi Dist.
Tainan City 741
TW

F4-5F-69
(hex) Matsufu Electronics distribution Company
F45F69 (base 16) Matsufu Electronics distribution Company
Suites 1601~3, Kinwick Centre, 32 Hollywood Road, Hong Kong
Hong Kong
HK

28-A1-EB (hex) ETEK TECHNOLOGY (SHENZHEN) CO.,LTD
28A1EB (base 16) ETEK TECHNOLOGY (SHENZHEN) CO.,LTD
A505-506A509 Room,A5 Floor, Academy Of International Technology Innovation, Keji Nan 10th Road, Hi-Tech Industrial Park, Shenzhen, P.R.C.
SHENZHEN GUANGDONG 518057

CN

B8-F8-28 (hex) Changshu Gaoshida Optoelectronic Technology Co. Ltd.
B8F828 (base 16) Changshu Gaoshida Optoelectronic Technology Co. Ltd.
Baimao Industrail Park Changshu Jiangsu
Changshu Jiangsu 215500
CN

3C-1A-57 (hex) Cardiopulmonary Corp
3C1A57 (base 16) Cardiopulmonary Corp
200 Cascade Blvd
Milford CT 06460
US

54-1B-5D (hex) Techno-Innov
541B5D (base 16) Techno-Innov
35 rue du champ Blanc
Meyzieu Rhône 69330
FR

08-35-71
(hex) CASwell INC.
083571 (base 16) CASwell INC.
8F,No.242,Bo-Ai St., Shu-Lin Dist.,New Taipei City ,Taiwan.
New Taipei City Taiwan 23845
TW

98-76-B6 (hex) Adafruit
9876B6 (base 16) Adafruit
150 Varick st
New York NY 10013
US

50-3C-C4 (hex) Lenovo Mobile Communication Technology Ltd.
503CC4 (base 16) Lenovo Mobile Communication Technology Ltd.
No.999,Qishan North 2nd Road,Information&Optoelectronics Park,
Xiamen Fujian 361006
US

E0-D1-E6 (hex) Aliph dba Jawbone
E0D1E6 (base 16) Aliph dba Jawbone
99 Rhode Island Street
San Francisco California 94103
US

04-1B-94 (hex) Host Mobility AB
041B94 (base 16) Host Mobility AB
Anders Personsgatan 12

Gothenburg Vastra Gotaland 41664
SE

A0-CE-C8 (hex) CE LINK LIMITED
A0CEC8 (base 16) CE LINK LIMITED
2/F, Building G, Licheng Tech. Ind. Zone
Shenzhen Guangdong 518104
CN

90-7A-28 (hex) Beijing Morncloud Information
And Technology Co. Ltd.
907A28 (base 16) Beijing Morncloud Information And Technology Co. Ltd.
A#1107, XiaoYun center
Chaoyang District Beijing 100125
CN

78-FE-41 (hex) Socus networks
78FE41 (base 16) Socus networks
2F.-2, No.215, Sec. 2, Chengde Rd., Datong Dist.,
Taipei City 103
TW

20-57-21 (hex) Salix Technology CO., Ltd.
205721 (base 16) Salix Technology CO., Ltd.
5F., No. 16, Lane 77, Hsing Ai Road
Taipei 114
TW

88-36-12 (hex) SRC Computers, LLC
883612 (base 16) SRC Computers, LLC
4240 N. Nevada Avenue
Colorado Springs CO 80907
US

D8-2D-9B (hex) Shenzhen G.Credit Communication Technology Co., Ltd
D82D9B (base 16) Shenzhen G.Credit Communication Technology Co., Ltd
4/F, Suite A, XinNengYuan Building, 2239 Nanhai Rd., Nanshan Dist., Shenzhen, Guangdong,China
Shenzhen Guangdong 518054
CN

70-9B-FC (hex) Bryton Inc.
709BFC (base 16) Bryton Inc.
6F., No. 100,
Zhouzi St., Neihu Dist.
Taipei City 11493
US

AC-E4-2E (hex) SK hynix

ACE42E (base 16) SK hynix
SK u-Tower, 25-1, Jeongja-dong, Bundang-gu
Seongnam-si Gyeonggi-do 463-844
KR

2C-7B-84 (hex) OOO Petr Telegin
2C7B84 (base 16) OOO Petr Telegin
Gagarin avenue, 37, build P1
Nizhny Novgorod 603009
RU

A4-C0-C7 (hex) ShenZhen Hitom Communication Technology Co..LTD
A4C0C7 (base 16) ShenZhen Hitom Communication Technology Co..LTD
Room 110,Unit A,No.1 Chuangye Building,43# YanShan Road,Shekou Area
ShenZhen GuangDong 518052
CN

18-10-4E (hex) CEDINT-UPM
18104E (base 16) CEDINT-UPM
Campus de Montegancedo
Madrid
ES

30-61-12 (hex) PAV GmbH
306112 (base 16) PAV GmbH
Georg-Kaindl-Straße 11
Otterfing 83624
DE

78-9F-4C (hex) HOERBIGER Elektronik GmbH
789F4C (base 16) HOERBIGER Elektronik GmbH
Justinus-Kernerstr. 7
Ammerbuch Baden-Wuerttemberg D-72119
DE

FC-4B-BC
(hex) Sunplus Technology Co., Ltd.
FC4BBC (base 16) Sunplus Technology Co., Ltd.
No.19, Innovation First Road
Hsinchu City 300
TW

9C-14-65 (hex) Edata Elektronik San. ve Tic. A..
9C1465 (base 16) Edata Elektronik San. ve Tic. A..
Tantavi Mahallesi Menteolu Cad.
stanbul - 34764
TR

4C-55-CC (hex) Zentri Pty Ltd
4C55CC (base 16) Zentri Pty Ltd
Level 9, 191 Clarence St,
Sydney NSW 2000
AU

00-C5-DB (hex) Datatech Sistemas Digitales Avanzados SL
00C5DB (base 16) Datatech Sistemas Digitales Avanzados SL
Cardenal Herrera Oria 165
Madrid 28034
ES

8C-F9-45 (hex) Power Automation pte Ltd
8CF945 (base 16) Power Automation pte Ltd
28 Ayer Rajah Crescent
139959
SG

F8-42-FB (hex) Yasuda Joho Co.,ltd.
F842FB (base 16) Yasuda Joho Co.,ltd.
1-11-1
Minato-ku Tokyo 105-0022
JP

88-73-98 (hex) K2E Tekpoint
887398 (base 16) K2E Tekpoint
201,Winstower,278-51,Sungsoo2ga
3dong,Sungdong-gu,Seoul,S.Korea,133-123
Seoul Sungdong-gu 133-123
KR

58-F3-87 (hex) Airios
58F387 (base 16) Airios
Peter Zuidlaan 10
Veldhoven 5502 NH
NL

3C-97-7E (hex) IPS Technology Limited
3C977E (base 16) IPS Technology Limited
7 Floor,E block,Dong Hai Wang Building
Shenzhen Guangodng 518000
CN

A4-FB-8D (hex) Hangzhou Dunchong Technology Co.Ltd
A4FB8D (base 16) Hangzhou Dunchong Technology Co.Ltd
Yitian Square 1#401A
hangzhou zhejiang 310051
US

10-7A-86 (hex) U&U ENGINEERING INC.
107A86 (base 16) U&U ENGINEERING INC.
No.15, Gaoyang S. Rd
Taoyuan County 325-44
TW

40-BD-9E (hex) Physio-Control, Inc
40BD9E (base 16) Physio-Control, Inc
11811 Willows Rd NE
Redmond WA 98052
US

6C-57-79 (hex) Aclima, Inc.
6C5779 (base 16) Aclima, Inc.
10 Lombard Street
San Francisco California 94111
US

C0-DA-74 (hex) Hangzhou Sunyard
Technology Co., Ltd.
C0DA74 (base 16) Hangzhou Sunyard Technology Co., Ltd.
No.3888 Jiangnan Ave, Binjiang District,
Hangzhou Zhejiang 310053
CN

88-23-64 (hex) Watchnet DVR Inc
882364 (base 16) Watchnet DVR Inc
Unit 5 - 351 Ferrier St.
Markham Ontario L3R 5Z2
CA

2C-92-2C (hex) Kishu Giken Kogyou Company Ltd,.
2C922C (base 16) Kishu Giken Kogyou Company Ltd,.
466 Nunohiki
Wakayama city Wakayama prefecture 6410015
JP

D8-FE-E3 (hex) D-Link International
D8FEE3 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

50-A0-BF (hex) Alba Fiber Systems Inc.
50A0BF (base 16) Alba Fiber Systems Inc.
265 E. Merrick Rd
Valley Stream NY 11580

US

B8-36-D8 (hex) Videoswitch
B836D8 (base 16) Videoswitch
Uspallata 3579
Buenos Aires Capital Federal C1437JCS
AR

04-3D-98 (hex) ChongQing QingJia Electronics CO.,LTD
043D98
(base 16) ChongQing QingJia Electronics CO.,LTD
No.1,DianCe Village JiangBei District
Chongqing city 400020
CN

E0-3E-4A (hex) Cavanagh Group International
E03E4A (base 16) Cavanagh Group International
9180 Four Mile Creek Rd.
Gainesville GA 30506
US

F4-CD-90 (hex) Vispiron Rotec GmbH
F4CD90 (base 16) Vispiron Rotec GmbH
Frankfurter Ring 224
München Bayern 80807
DE

54-21-60 (hex) Alula
542160 (base 16) Alula
2340 Energy Park Drive
St. Paul MN 55108
US

80-6C-8B (hex) KAESER KOMPRESSOREN AG
806C8B (base 16) KAESER KOMPRESSOREN AG
Carl-Kaeser-Strasse 26
Coburg Bavaria 96450
DE

58-1C-BD (hex) Affinegy
581CBD (base 16) Affinegy
1705 S. Capital of Texas Hwy. Ste 310
Austin Texas 78746
US

28-4F-CE (hex) Liaoning Wontel Science and Technology Development Co.,Ltd.
284FCE (base 16) Liaoning Wontel Science and Technology Development Co.,Ltd.
A704

Floor TaiHe building
Shenyang Liaoning 110000
CN

DC-6F-00 (hex) Livescribe, Inc.
DC6F00 (base 16) Livescribe, Inc.
7677 Oakport Street
Oakland California 94621
US

54-E3-B0 (hex) JVL Industri Elektronik
54E3B0 (base 16) JVL Industri Elektronik
Blokken 42
Birkeroed Sjaelland DK-3460
DK

10-01-CA (hex) Ashley Butterworth
1001CA (base 16) Ashley Butterworth
P.O. Box 3410
Santa Clara CA 95055
US

24-6A-AB (hex) IT-IS International
246AAB (base 16) IT-IS International
1 Wainstones Court
Middlesbrough Cleveland TS9 5JY
GB

18-D6-CF (hex) Kurth Electronic GmbH
18D6CF (base 16) Kurth Electronic GmbH
Mühleweg 11
Eningen 72800
DE

F4-81-39 (hex) CANON INC.
F48139 (base 16) CANON INC.
30-2 Shimomaruko 3-chome,
Ohta-ku Tokyo 146-8501
JP

18-36-FC (hex) Elecsys International Corporation
1836FC (base 16) Elecsys International Corporation
846
N Mart-Way Court
Olathe KS 66061
US

A4-D0-94 (hex) VIVAVIS AG

A4D094 (base 16) VIVAVIS AG
Nobelstr. 18
Ettlingen D-76375
DE

2C-94-64 (hex) Cincoze Co., Ltd.
2C9464 (base 16) Cincoze Co., Ltd.
7F., No. 4 Aly. 1 Ln. 235, Baociao Rd.,
New Taipei City 23145
US

80-4B-20 (hex) Ventilation Control
804B20 (base 16) Ventilation Control
Kronenstrasse 34
Villingen-Schwenningen Baden-Wuerttemberg 78054
DE

28-79-94 (hex) Realplay Digital Technology(Shenzhen) Co.,Ltd
287994 (base 16) Realplay Digital Technology(Shenzhen) Co.,Ltd
7/F,Building E,SDG Information Port ,Kefeng Rd.,Hi-tech
Shenzhen Guangdong 518057
CN

94-B8-C5 (hex) RuggedCom Inc.
94B8C5 (base 16) RuggedCom Inc.
300 Applewood Crescent
Concord Ontario L4K 5C7
CA

60-4A-1C (hex) SUYIN Corporation
604A1C (base 16) SUYIN Corporation
No.377,Fude 1st Rd
Taipei 221
TW

08-27-19 (hex) APS systems/electronic
AG
082719 (base 16) APS systems/electronic AG
Neumatt 4
Niederbuchsiten SO 4626
CH

50-5A-C6 (hex) GUANGDONG SUPER TELECOM CO.,LTD.
505AC6 (base 16) GUANGDONG SUPER TELECOM CO.,LTD.
4/F,NO.1025-1027 Gaopu Rd
Guangzhou Guangdong 510663
CN

30-65-EC (hex) Wistron (ChongQing)
3065EC (base 16) Wistron (ChongQing)
No.F08/F09,D zone,Konggang Functional Zone
ChongQing 401120
CN

B8-63-BC (hex) ROBOTIS, Co, Ltd
B863BC (base 16) ROBOTIS, Co, Ltd
#1506 Ace high End Tower 3, 371-50
Seoul 153-787
KR

98-0D-2E (hex) HTC Corporation
980D2E (base 16) HTC Corporation
No. 23, Xinghua Rd., Taoyuan City
Taoyuan County Taiwan 330
TW

9C-79-AC (hex) Suntec Software(Shanghai) Co., Ltd.
9C79AC (base 16) Suntec Software(Shanghai) Co., Ltd.
17F New Hualian Mansion
Shanghai 200020
CN

C4-19-EC (hex) Qualisys AB
C419EC (base 16) Qualisys AB
Packhusgatan 6
Gothenburg
41113
SE

54-2C-EA (hex) PROTECTRON
542CEA (base 16) PROTECTRON
140 zone industriel
CASABLANCA 18600
MA

D4-64-F7 (hex) CHENGDU USEE DIGITAL TECHNOLOGY CO., LTD
D464F7 (base 16) CHENGDU USEE DIGITAL TECHNOLOGY CO., LTD
NO.6 CHUANGYE ROAD
CHENGDU SICHUAN 610041
CN

60-E0-0E (hex) SHINSEI ELECTRONICS CO LTD
60E00E (base 16) SHINSEI ELECTRONICS CO LTD
2-6-25
Amagasaki Hyogo 660-0805
JP

54-54-14 (hex) Digital RF Corea, Inc
545414 (base 16) Digital RF Corea, Inc
2 Floor, SeMin B/D, 201, Jangdari-ro
Suwon-si Gyeonggi-do 442-833
KR

24-EB-65 (hex) SAET I.S. S.r.l.
24EB65 (base 16) SAET I.S. S.r.l.
Via Leinì 1/B
San Maurizio C.se TO 10077
IT

E8-94-F6 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
E894F6 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong
518057
CN

DC-82-5B (hex) JANUS, spol. s r.o.
DC825B (base 16) JANUS, spol. s r.o.
Sarajevska 8
Prague Czech Republic 12000
CZ

9C-A5-77 (hex) Osorno Enterprises Inc.
9CA577 (base 16) Osorno Enterprises Inc.
976 Elgin Ave
Winnipeg MB R3E 1B4
CA

C0-43-01 (hex) Epec Oy
C04301 (base 16) Epec Oy
P.O. Box 194
Seinäjoki 60101
FI

E0-7C-62 (hex) Whistle Labs, Inc.
E07C62 (base 16) Whistle Labs, Inc.
251 Rhode Island Street, Suite 211
San Francisco CA 94013
US

94-98-A2 (hex) Shanghai LISTEN TECH.LTD
9498A2 (base 16) Shanghai LISTEN TECH.LTD
7F,A#,NO.3699,Gonghexin Road
SHANGHAI SHANGHAI 200435

CN

DC-2B-CA (hex) Zera GmbH
DC2BCA (base 16) Zera GmbH
Hauptstrasse 392
Koenigswinter NRW 53639
DE

5C-84-86 (hex) Brightsource Industries Israel LTD
5C8486 (base 16) Brightsource Industries Israel LTD
11 Kiryat Mada st
Jerusalem 91450
IL

BC-BA-E1
(hex) AREC Inc.
BCBAE1 (base 16) AREC Inc.
3F, No.367, Sec.2, Wenhua Rd
Banqiao Dist New Taipei City 220
TW

18-FA-6F (hex) ISC applied systems corp
18FA6F (base 16) ISC applied systems corp
295 Labrosse
Pointe-claire QC H9R-1A3
CA

60-1E-02 (hex) EltexAlatau
601E02 (base 16) EltexAlatau
Ibragimova 9
Almaty Province 050032
KZ

F0-7F-0C (hex) Leopold Kostal GmbH &Co. KG
F07F0C (base 16) Leopold Kostal GmbH &Co. KG
An der Bellmerei 10
Luedenscheid NRW D-58513
DE

4C-62-55 (hex) SANMINA-SCI SYSTEM DE MEXICO S.A. DE C.V.
4C6255 (base 16) SANMINA-SCI SYSTEM DE MEXICO S.A. DE C.V.
Carretera Guadalajara-chapala km 15.5 #45
TLAJOMULCO JALISCO 45640
MX

50-CD-32 (hex) NanJing Chaoran Science & Technology Co.,Ltd.
50CD32 (base 16) NanJing Chaoran Science & Technology Co.,Ltd.
Block C,Floor 5,Tianzexingwang Building

NanJing City JiangSu Province 210019
CN

E0-ED-C7
(hex) Shenzhen Friendcom Technology Development Co., Ltd
E0EDC7 (base 16) Shenzhen Friendcom Technology Development Co., Ltd
6/F,17 Building, Guangqian Industrial Park,
Nanshan District, Shen Zhen CIty Guang Dong 518055
CN

D4-A4-99 (hex) InView Technology Corporation
D4A499 (base 16) InView Technology Corporation
8900 Shoal Creek Blvd
Austin TX 78757
US

B4-DD-15 (hex) ControlThings Oy Ab
B4DD15 (base 16) ControlThings Oy Ab
Werner Söderströmin katu 24
Porvoo Finland 06100
FI

E0-C6-B3 (hex) MilDef AB
E0C6B3 (base 16) MilDef AB
Box 22079
Helsingborg Skane 25022
SE

18-84-10 (hex) CoreTrust Inc.
188410 (base 16) CoreTrust Inc.
14F Saman Bldg. 945 Daechi-dong
Seoul Republic of Korea 135-280
KR

FC-22-9C (hex) Han Kyung I Net Co.,Ltd.
FC229C (base 16) Han Kyung I Net Co.,Ltd.
3F,Seung Eun Bldg
Yu Seong-Gu Dae Jeon 305-335
KR

18-32-A2 (hex) LAON
TECHNOLOGY CO., LTD.
1832A2 (base 16) LAON TECHNOLOGY CO., LTD.
#1212 HO, BIZ CENTER, SKn TECHNOPARK
SEONGNAM KYOUNGGI DO 462-721
KR

74-D0-2B (hex) ASUSTek COMPUTER INC.

74D02B (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

A0-1C-05 (hex) NIMAX TELECOM CO.,LTD.
A01C05 (base 16) NIMAX TELECOM CO.,LTD.
1F. NO.308-7,SEC.1,DATONG RD
NEW TAIPEI CITY 221
TW

08-48-2C (hex) Raycore Taiwan Co., LTD.
08482C (base 16) Raycore Taiwan Co., LTD.
3F-5, No.351, Sec.2, Zongshan Rd
New Taipei city 23504
TW

64-72-D8 (hex) GooWi Technology Co.,Limited
6472D8 (base 16) GooWi Technology Co.,Limited
Unit C8.,9/F,Hongming Fatoty Building
99 How Ming Street Kwun Tong 999077
HK

84-62-23 (hex) Shenzhen Coship Electronics Co., Ltd.
846223 (base 16) Shenzhen Coship Electronics Co., Ltd.
Rainbow Bldg., North, Hi-Tech Industrial Park
Shenzhen
Guangdong 518057
CN

1C-FA-68 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
1CFA68 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

DC-1D-D4 (hex) Microstep-MIS spol. s r.o.
DC1DD4 (base 16) Microstep-MIS spol. s r.o.
Cavojskeho 1
Bratislava 84104
SK

FC-DD-55 (hex) Shenzhen WeWins wireless Co.,Ltd
FCDD55 (base 16) Shenzhen WeWins wireless Co.,Ltd
6/F.,B Wing,Yuehai Piaza,Nanhai Road
Shenzhen Guangdong 518000
CN

B0-17-43 (hex) EDISON GLOBAL CIRCUITS LLC
B01743 (base 16) EDISON GLOBAL CIRCUITS LLC
1475 Sawdust Rd
Spring TX 77380-2974
US

F8-2E-DB (hex) RTW GmbH & Co. KG
F82EDB (base 16) RTW GmbH & Co. KG
Am Wassermann 25
Cologne NRW 50829
DE

C0-4A-00 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
C04A00 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors
1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

04-5F-A7 (hex) Shenzhen Yichen Technology Development Co.,LTD
045FA7 (base 16) Shenzhen Yichen Technology Development Co.,LTD
5/F Honghualing 2nd Industry Zone,Xili Town
Shenzhen Guangdong 518055
CN

08-79-99 (hex) AIM GmbH
087999 (base 16) AIM GmbH
Sasbacherstraße 2
Freiburg BW 79111
US

C0-11-A6 (hex) Fort-Telecom ltd.
C011A6 (base 16) Fort-Telecom ltd.
Hrustalnaya 8a
Perm 614107
RU

C0-B8-B1 (hex) BitBox Ltd
C0B8B1 (base 16) BitBox Ltd
Whitney Road
Basingstoke Hampshire RG24 8NS
GB

10-5F-06 (hex) Actiontec Electronics, Inc
105F06 (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

18-53-E0 (hex) Hanyang Digitech Co.Ltd
1853E0 (base 16) Hanyang Digitech Co.Ltd
103, BANWOL-DONG, HWASEONG-SI, KYUNGGI-DO, KOREA
HWASEONG
KYUNGGI 445-330
KR

C0-88-5B (hex) SnD Tech Co., Ltd.
C0885B (base 16) SnD Tech Co., Ltd.
1140-4 Triple Tower C-406
Bucheon Si Gyeonggi-Do 420-852
KR

3C-FB-96 (hex) Emcraft Systems LLC
3CFB96 (base 16) Emcraft Systems LLC
2191 S. El Camino Real
Oceanside CA 92054
US

08-1F-3F (hex) WondaLink Inc.
081F3F (base 16) WondaLink Inc.
2F, No. 23, R&D Road 2
Hsinchu 300
TW

40-51-6C (hex) Grandex International Corporation
40516C (base 16) Grandex International Corporation
4F, 525 Chung Cheng Road
Hsin Tien Dist. New Taipei City 231
TW

D0-BE-2C (hex) CNSLink Co., Ltd.
D0BE2C (base 16) CNSLink Co., Ltd.
room 807, Jungang Induspia 5
Seongnam Gyeonggi 462-807
US

00-C1-4F (hex) DDL Co,.ltd.
00C14F (base 16) DDL Co,.ltd.
6F AFT BLDG.
SAPPORO HOKKAIDO 060-0035
JP

2C-26-C5 (hex) zte corporation
2C26C5 (base 16) zte corporation
12/F.,zte

R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

80-7B-1E (hex) Corsair Memory, Inc.
807B1E (base 16) Corsair Memory, Inc.
47100 Bayside Parkway
Fremont CA 94538
US

B4-AB-2C (hex) MtM Technology Corporation
B4AB2C (base 16) MtM Technology Corporation
12F, No. 186, Fuxing Road
Taoyuan City Taoyuan County 33066
TW

74-37-2F (hex) Tongfang Shenzhen Cloudcomputing Technology Co.,Ltd
74372F (base 16) Tongfang Shenzhen Cloudcomputing Technology Co.,Ltd
4,1 Building,FinanceBase,NO.8KeFaRoad,Science park
ShenZhen City GuangDong 518057
US

E8-A3-64 (hex) Signal Path International / Peachtree Audio
E8A364 (base 16) Signal Path International / Peachtree Audio
2045 120th Ave NE
Bellevue Washington 98005
US

BC-51-FE (hex) Swann communications Pty Ltd
BC51FE (base 16) Swann communications Pty Ltd
Unit 13
Port Melbourne Victoria 3207
AU

E0-CE-C3 (hex) ASKEY
COMPUTER CORP
E0CEC3 (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

F0-21-9D (hex) Cal-Comp Electronics & Communications Company Ltd.
F0219D (base 16) Cal-Comp Electronics & Communications Company Ltd.
No.147, Sec. 3, Beishen Rd
Shenkeng Dist New Taipei City ---
TW

18-17-25 (hex) Cameo Communications, Inc.

181725 (base 16) Cameo Communications, Inc.
No. 276, Sinhu 1st Rd., Neihu District,
Taipei 114
TW

84-62-A6 (hex) EuroCB (Phils), Inc.
8462A6 (base 16) EuroCB (Phils), Inc.
SFB No.2
Lapulapu CIty Cebu 6015
PH

E4-F3-65 (hex) Time-O-Matic, Inc.
E4F365 (base 16) Time-O-Matic, Inc.
1015 Maple St.
Danville IL 61832
US

DC-C0-DB (hex) Shenzhen Kaiboer Technology Co., Ltd.
DCC0DB (base 16) Shenzhen Kaiboer Technology Co., Ltd.
4/F, No. 11 Bldg., Yusheng Industrial Park, No. 467, Xixiang Sec.,
Shenzhen Guangdong
518126
CN

AC-5D-10 (hex) Pace Americas
AC5D10 (base 16) Pace Americas
1764 Automation Parkway
San Jose Ca 95131
US

88-F4-90 (hex) Jetmobile Pte Ltd
88F490 (base 16) Jetmobile Pte Ltd
541 Orchard Road
Singapore 238881
SG

FC-62-6E (hex) Beijing MDC Telecom
FC626E (base 16) Beijing MDC Telecom
26 Xiaoyun Road #B2808, Chaoyang
Beijing 100016
CN

94-C9-62 (hex) Teseq AG
94C962 (base 16) Teseq AG
Nordstrasse 11F
Luterbach Solothurn 4542
CH

DC-2A-14 (hex) Shanghai Longjing Technology Co.
DC2A14 (base 16) Shanghai Longjing Technology Co.
689 Chundong Road, Minhang District
Shanghai 201108
CN

80-8B-5C (hex) Shenzhen Runhuicheng Technology Co., Ltd
808B5C (base 16) Shenzhen Runhuicheng Technology Co., Ltd
315.3rd Floor Taoyuan Commercial Building A2 ridgepole Guang Qian Industrial Estate XiLi
Shenzhen Guangdong 518052
CN

C0-5E-6F (hex) V. Stonkaus
firma Kodinis Raktas
C05E6F (base 16) V. Stonkaus firma Kodinis Raktas
Ateities 10
Vilnius 08303
LT

68-86-E7 (hex) Orbotix, Inc.
6886E7 (base 16) Orbotix, Inc.
1155 Canyon Blvd.
Boulder CO 80302
US

D8-19-CE (hex) Telesquare
D819CE (base 16) Telesquare
670, Sampyeong-dong, Bundang-gu
Seongnam-si Gyeonggi-do 463-400
KR

1C-91-79 (hex) Integrated System Technologies Ltd
1C9179 (base 16) Integrated System Technologies Ltd
Suite 5 Birch House
Aldridge West Midlands WS9 0NF
GB

38-F5-97 (hex) home2net GmbH
38F597 (base 16) home2net GmbH
Im Haslet 42
Woerth/Donau Bayern 93086
DE

6C-B3-11 (hex) Shenzhen Lianrui Electronics Co.,Ltd
6CB311 (base 16) Shenzhen Lianrui Electronics Co.,Ltd
Block C4 XinTang Industrial Park
Shenzhen Guangdong 518000
CN

D8-D5-B9 (hex) Rainforest Automation, Inc.
D8D5B9 (base 16) Rainforest Automation, Inc.
200 – 311 Pender
St. W
Vancouver British Columbia V6B 1T3
CA

24-11-D0 (hex) Chongqing Ehs Science and Technology Development Co.,Ltd.
2411D0 (base 16) Chongqing Ehs Science and Technology Development Co.,Ltd.
Saturn Business Center C3-15-7,Starlight No.5 Street
Chongqing 400060
CN

B4-61-FF (hex) Lumigon A/S
B461FF (base 16) Lumigon A/S
Baadehavnsgade 2A
Copenhagen SV Denmark 2450
DK

A0-A1-30 (hex) DLI Taiwan Branch office
A0A130 (base 16) DLI Taiwan Branch office
No.18-5, No.738. Zhong Zheng Rd
Taipei New City 23511
TW

BC-39-A6 (hex) CSUN System Technology Co.,LTD
BC39A6 (base 16) CSUN System Technology Co.,LTD
4-16-22,Chiyogaoka
Kawasaki-shi Kanagawa Ken 2150005
JP

EC-B5-41 (hex) SHINANO E and E Co.Ltd.
ECB541 (base 16) SHINANO E and E Co.Ltd.
5511-6 Wada
Matsumoto City Nagano 390-1242
JP

E4-C1-46 (hex) Objetivos y Servicios de Valor A
E4C146 (base 16) Objetivos y Servicios
de Valor A
C/ Monte Esquinza, 28, 1D
Madrid 28017
ES

D4-00-57 (hex) MC Technologies GmbH
D40057 (base 16) MC Technologies GmbH
Kabelkamp 2

Hannover Germany 30179
DE

A8-75-D6 (hex) FreeTek International Co., Ltd.
A875D6 (base 16) FreeTek International Co., Ltd.
Unit D, 15/F, Tai Ping Ind.Ctr., Blk 2, 55 Ting Kok Rd.,
Hong Kong Hong KOng 1111
HK

10-A7-43 (hex) SK Mtek Limited
10A743 (base 16) SK Mtek Limited
Flat/Rm 1808, 18F Tower II, Admirality
Hong Kong
HK

54-7F-A8 (hex) TELCO systems, s.r.o.
547FA8 (base 16) TELCO systems, s.r.o.
Zvolenska cesta 20
Banska Bystrica Slovak republic 974 05
SK

54-74-E6 (hex) Webtech Wireless
5474E6 (base 16) Webtech Wireless
215-4299 Canada Way
Burnaby BC V5G 1H3
CA

C4-6D-F1 (hex) DataGravity
C46DF1 (base 16) DataGravity
10 Tara Blvd
Nashua NH 03062
US

30-21-5B (hex) Shenzhen Ostar Display
Electronic Co.,Ltd
30215B (base 16) Shenzhen Ostar Display Electronic Co.,Ltd
Room218, CASTD Incubator Building, High-tech South Street No.1,
Shenzhen Guangdong 518057
CN

CC-59-3E (hex) Sensium Healthcare Limited
CC593E (base 16) Sensium Healthcare Limited
115 MILTON PARK
ABINGDON OXFORDSHIRE OX14 4SA
GB

34-FA-40 (hex) Guangzhou Robustel Technologies Co., Limited
34FA40 (base 16) Guangzhou Robustel Technologies Co., Limited

B301, Tianchang Shangmaoyuan
Guangzhou Guangdong 510660
CN

1C-5A-6B (hex) Philips Electronics Nederland BV
1C5A6B (base 16) Philips Electronics Nederland BV
PO BOX 80045
Eindhoven 5600 JZ
NL

84-C8-B1 (hex) Incognito Software Systems Inc.
84C8B1 (base 16) Incognito Software Systems Inc.
#500 - 375 Water St
Vancouver BC - British Columbia V6B 5C6
CA

30-D3-57 (hex) Logosol, Inc.
30D357 (base 16) Logosol, Inc.
5041 ROBERT J. MATHEWS PARKWAY
EL
DORADO HILLS California 95762
US

94-FD-2E (hex) Shanghai Uniscope Technologies Co.,Ltd
94FD2E (base 16) Shanghai Uniscope Technologies Co.,Ltd
5th Floor, Building 10,
Shanghai 200233
CN

A0-BA-B8 (hex) Pixon Imaging
A0BAB8 (base 16) Pixon Imaging
9530 Towne Center Dr.
San Diego CA 92121
US

74-E4-24 (hex) APISTE CORPORATION
74E424 (base 16) APISTE CORPORATION
1-4-16 Dojimahama, Kita-ku
Osaka Japan 530-0004
JP

D4-10-CF (hex) Huanshun Network Science and Technology Co., Ltd.
D410CF (base 16) Huanshun Network Science and Technology Co., Ltd.
No. 218-1, North Binjiang Road
yuyao zhejiang 315400
CN

5C-E0-F6 (hex) NIC.br- Nucleo de Informacao e Coordenacao do Ponto BR

5CE0F6 (base 16) NIC.br- Nucleo de Informacao e Coordenacao do Ponto BR
Av. das Nacoes Unidas, 11541, 7o andar
São Paulo SP 04578-000
BR

C8-3D-97 (hex) Nokia Corporation
C83D97 (base 16) Nokia Corporation
Elektroniikkatie
10
Oulu 90570
FI

0C-F3-61 (hex) Java Information
0CF361 (base 16) Java Information
Woolim Lions Valley 2nd B-1305
Seongnam-Si Gyounggi-Do 462-120
KR

B0-35-8D (hex) Nokia Corporation
B0358D (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

F8-E4-FB (hex) Actiontec Electronics, Inc
F8E4FB (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

8C-4A-EE (hex) GIGA TMS INC
8C4AEE (base 16) GIGA TMS INC
9F-2 NO.31 Lane 169 Kang-ning Street, Hsi-Chih
Taipei County 221 221
TW

34-C9-9D (hex) EIDOLON COMMUNICATIONS TECHNOLOGY CO. LTD.
34C99D (base 16) EIDOLON COMMUNICATIONS TECHNOLOGY CO. LTD.
Room 603, 6/F., Wanchai Central Building, 89 Lockhart Road, Wanchai,

HK

80-2F-DE (hex) Zurich Instruments AG
802FDE (base 16) Zurich Instruments AG
Technoparkstrasse 1
Zurich 8005
CH

5C-38-E0
(hex) Shanghai Super Electronics Technology Co.,LTD
5C38E0 (base 16) Shanghai Super Electronics Technology Co.,LTD
1/F Building A 39 Hongcao Road
Shanghai 200233
CN

60-0F-77 (hex) SilverPlus, Inc
600F77 (base 16) SilverPlus, Inc
18 Technology Dr, #143
Irvine CA 92618
US

E4-4F-5F (hex) EDS Elektronik Destek San.Tic.Ltd.Sti
E44F5F (base 16) EDS Elektronik Destek San.Tic.Ltd.Sti
Meclis Mah. Hayran Sok. No:4
istanbul 34785
TR

E8-6D-54 (hex) Digit Mobile Inc
E86D54 (base 16) Digit Mobile Inc
5F.,No.550,Ruiguang Rd., Neihu Dist.,Taipei City 11492, Taiwan
Taipei Taiwan 11492
TW

E8-71-8D (hex) Elsys Equipamentos Eletronicos Ltda
E8718D (base 16) Elsys Equipamentos Eletronicos Ltda
Av. Torquato Tapajós, n. 1052 - B. Flores
Manaus Amazonas 69.058-830
BR

EC-E9-15 (hex) STI Ltd
ECE915 (base 16) STI Ltd
Osborn Way
Hook Hampshire RG27 9HX
GB

80-D7-33 (hex) QSR
Automations, Inc.
80D733 (base 16) QSR Automations, Inc.
2301 Stanley Gault Pkwy
Louisville KY 40223
US

30-3D-08 (hex) GLINTT TES S.A.
303D08 (base 16) GLINTT TES S.A.
Beloura Office Park, Ed.10
Sintra 2710-693

PT

AC-E6-4B (hex) Shenzhen Baojia Battery Technology Co., Ltd.
ACE64B (base 16) Shenzhen Baojia Battery Technology Co., Ltd.
Block A, Tongfuyu Industrial Zone
Shenzhen Guangdong 518013
CN

04-4B-FF (hex) GuangZhou Hedy Digital Technology Co., Ltd
044BFF (base 16) GuangZhou Hedy Digital Technology Co., Ltd
B 701, Gaoke Building, TianHe Bei Road,
GuangZhou GuangDong 510630
CN

A8-1F-AF (hex) KRYPTON POLSKA
A81FAF (base 16) KRYPTON POLSKA
AL. JEROZOLIMSKIE 131
WARSZAWA MAZOWIECKIE 02-304
PL

08-E5-DA (hex) NANJING FUJITSU COMPUTER PRODUCTS CO.,LTD.
08E5DA (base 16) NANJING FUJITSU COMPUTER PRODUCTS CO.,LTD.
NO.1,XIANXIN MID-ROAD
NANJING JIANGSU 210046
CN

58-84-E4
(hex) IP500 Alliance e.V.
5884E4 (base 16) IP500 Alliance e.V.
Scharnhorststraße 16
Berlin 10115
DE

08-AF-78 (hex) Totus Solutions, Inc.
08AF78 (base 16) Totus Solutions, Inc.
1505 Wallace Drive, Suite 102
Carrollton TX 75006
US

0C-93-FB (hex) BNS Solutions
0C93FB (base 16) BNS Solutions
PO Box 508
Walpole MA 02081
US

78-9F-87 (hex) Siemens AG I IA PP PRM
789F87 (base 16) Siemens AG I IA PP PRM
Gleiwitzer Strasse 555

Nuremberg Bavaria 90475
DE

60-32-F0 (hex) Mplus technology
6032F0 (base 16) Mplus technology
#201 Gayang Dong, Gangsea Gu
Seoul 157-793
KR

D8-AF-3B (hex) Hangzhou Bigbright Integrated communications system Co.,Ltd
D8AF3B (base 16) Hangzhou Bigbright Integrated communications system Co.,Ltd
The 6floor ,Building1,No.1418-41,Moganshan Road
Hangzhou Zhejiang 310015
CN

28-29-D9 (hex) GlobalBeiMing technology (Beijing)Co.
Ltd
2829D9 (base 16) GlobalBeiMing technology (Beijing)Co. Ltd
Beijing Chaoyang District 8 Guanghua Road A seat 320 rooms
Beijing 100026
CN

88-61-5A (hex) Siano Mobile Silicon Ltd.
88615A (base 16) Siano Mobile Silicon Ltd.
P.O. Box 8684
Netanya 42504
IL

70-E2-4C (hex) SAE IT-systems GmbH & Co. KG
70E24C (base 16) SAE IT-systems GmbH & Co. KG
Im Gewerbegebiet Pesch 14
Köln NRW 50767
DE

00-FD-4C (hex) NEVATEC
00FD4C (base 16) NEVATEC
Lindaraja 2
Granada 18009
ES

D0-73-8E (hex) DONG OH PRECISION CO., LTD.
D0738E (base 16) DONG OH PRECISION CO., LTD.
#282 SHINGAL-RI, JICSAN-EUP
CHEONAN-SI CHUNGCHEONGNAM-DO 331-814
KR

64-C9-44 (hex) LARK Technologies, Inc
64C944 (base 16) LARK Technologies, Inc

2570 W El Camino Real
Mountain View CA 94040
US

1C-94-92 (hex) RUAG Schweiz AG
1C9492 (base 16) RUAG Schweiz AG
RUAG Defence
Hombrechtikon
ZH 8634
CH

B8-89-CA (hex) ILJIN ELECTRIC Co., Ltd.
B889CA (base 16) ILJIN ELECTRIC Co., Ltd.
112-83, Annyeong-dong
Hwaseong Gyeonggi-do 445-380
KR

64-F5-0E (hex) Kinion Technology Company Limited
64F50E (base 16) Kinion Technology Company Limited
ng Kon107A, 1/F, Enterprise Place,

HK

60-19-29 (hex) VOLTRONIC POWER TECHNOLOGY(SHENZHEN) CORP.
601929 (base 16) VOLTRONIC POWER TECHNOLOGY(SHENZHEN) CORP.
1-4F,Building 5,YuSheng Industrial Park,No.467,Section Xixiang,National Highway 107,Xixiang,Bao An District,Shenzhen,China
Shenzhen Shenzhen 518000
CN

48-B2-53 (hex) Marketaxess Corporation
48B253 (base 16) Marketaxess Corporation
299 Park Avenue
New York NY 10171
US

30-5D-38 (hex) Beissbarth
305D38 (base 16) Beissbarth
Hanauer Str. 101
Muenchen 80993
DE

60-D2-B9 (hex) REALAND BIO CO., LTD.
60D2B9 (base 16) REALAND BIO CO., LTD.
Room 201A, N.set, Jinshan
Bd., No.248 Wushan Rd., Tianhe District
Guangzhou Guangdong 510630
CN

30-FD-11 (hex) MACROTECH (USA) INC.
30FD11 (base 16) MACROTECH (USA) INC.
1799 BAYSHORE HIGHWAY
BURLINGAME CA 94010
US

14-43-19 (hex) Creative&Link Technology Limited
144319 (base 16) Creative&Link Technology Limited
ROOM 704 HONG JIN GE BLD. NO.3018,YANHE SOUTH ROAD
Shenzhen Guangdong 518002
US

18-48-D8 (hex) Fastback Networks
1848D8 (base 16) Fastback Networks
2480 N 1st Street
San Jose California 95131
US

C8-C7-91 (hex) Zero1.tv GmbH
C8C791 (base 16) Zero1.tv GmbH
Heinrich-Roller-Str. 16 B
Berlin 10405
DE

EC-D9-25 (hex) RAMI
ECD925 (base 16) RAMI
7 RUE RAOUL FOLLEREAU
BUSSY ST GEORGES 77600
FR

00-5D-03 (hex) Xilinx, Inc
005D03 (base 16) Xilinx, Inc
2100 Logic drive
San Jose CA 95124
US

D0-4C-C1 (hex) SINTRONES Technology Corp.
D04CC1 (base 16) SINTRONES
Technology Corp.
14F.-3, No.736, Zhongzheng Rd., Zhonghe Dist., New Taipei City 235, Taiwan (R.O.C.)
Taipei N/A 235
TW

50-3F-56 (hex) Syncmold Enterprise Corp
503F56 (base 16) Syncmold Enterprise Corp
9F., No.168, Jiankang Rd., Zhonghe Dist.
Xinbei City 235

US

C4-DA-26 (hex) NOBLEX SA
C4DA26 (base 16) NOBLEX SA
Vicente Padín Moreira 97
Ushuaia Tierra del fuego 9410
AR

7C-C8-AB (hex) Acro Associates, Inc.
7CC8AB (base 16) Acro Associates, Inc.
1990 Olivera Rd.
Concord CA 94520
US

10-F3-DB (hex) Gridco Systems, Inc.
10F3DB (base 16) Gridco Systems, Inc.
10-L Commerice Way
Woburn MA 01801
US

8C-EE-C6 (hex) Precepscion Pty. Ltd.
8CEEC6 (base 16) Precepscion Pty. Ltd.
Level 10
Melbourne Victoria 3000
AU

10-12-48 (hex) ITG, Inc.
101248 (base 16) ITG, Inc.
YASUHARA BLDG 302, 1-42-6, ITABASHI,
ITABASHI-KU TOKYO 173-0004
US

74-94-3D (hex) AgJunction
74943D
(base 16) AgJunction
8444 N. 90th St
Scottsdale AZ 85258
US

04-9C-62 (hex) BMT Medical Technology s.r.o.
049C62 (base 16) BMT Medical Technology s.r.o.
Cejl 50
Brno 65660
CZ

0C-2A-69 (hex) electric imp, incorporated
0C2A69 (base 16) electric imp, incorporated
5050 El Camino Real, Ste 221

Los Altos California 94022
US

C4-55-C2 (hex) Bach-Simpson
C455C2 (base 16) Bach-Simpson
109 Meg Drive
London Ontario N6E3Z7
CA

00-E8-AB (hex) Meggitt Training Systems, Inc.
00E8AB (base 16) Meggitt Training Systems, Inc.
296 Brogdon Rd
Suwanee GA 30024
US

B4-21-8A (hex) Dog Hunter LLC
B4218A (base 16) Dog Hunter LLC
8 Faneuil Hall SQ
Boston MA 02109
US

F0-D3-E7 (hex) Sensometrix SA
F0D3E7 (base 16) Sensometrix SA
Rue Albert Richard 2
Geneva GE 1201
CH

B0-12-66 (hex) Futaba-Kikaku
B01266 (base 16) Futaba-Kikaku
2-17-20-302
Yanaka
Taito-ku Tokyo 110-0001
JP

7C-C8-D0 (hex) TIANJIN YAAN TECHNOLOGY CO., LTD.
7CC8D0 (base 16) TIANJIN YAAN TECHNOLOGY CO., LTD.
No.8 Ziyuan Road,Huayuan Industrial Zone
Tianjin 300384
CN

88-E9-17 (hex) Tamaggo
88E917 (base 16) Tamaggo
2001 McGill College
Montreal Quebec H3A 3L3
CA

90-9D-E0 (hex) Newland Design + Assoc. Inc.
909DE0 (base 16) Newland Design + Assoc. Inc.

3186-G Airway Ave.
Costa Mesa CA 92626
US

98-5E-1B (hex) ConversDigital Co., Ltd.
985E1B (base 16) ConversDigital Co., Ltd.
5308 5th Bldg., Dong Seoul Univ.
Seongnam Gyeonggi 461714
KR

60-D1-AA (hex) Vishal Telecommunications Pvt Ltd
60D1AA (base 16) Vishal Telecommunications Pvt Ltd
25 Sitaram Building Dr D N Road
Mumbai Maharastra 400001
IN

70-9B-A5 (hex) Shenzhen Y&D Electronics Co.,LTD.
709BA5 (base 16) Shenzhen Y&D Electronics Co.,LTD.
D zone3F,Shenzhen Academy of
Aerospace Technology,Hi-Tech Park,south 10th Road,Nanshan
Shenzhen Guangdong 518057
CN

B4-89-10 (hex) Coster T.E. S.P.A.
B48910 (base 16) Coster T.E. S.P.A.
Via San Giovanni Battista De La Salle 4/a
Milano MI 20132
IT

B0-C8-3F (hex) Jiangsu Cynray IOT Co., Ltd.
B0C83F (base 16) Jiangsu Cynray IOT Co., Ltd.
Building D1, 1 Zidong road, Qixia district
Nanjing Jiangsu 210000
CN

3C-F3-92 (hex) Virtualtek. Co. Ltd
3CF392 (base 16) Virtualtek. Co. Ltd
12F, ShinhanDm Bldg.,
Seoul 121-708
KR

14-9F-E8 (hex) Lenovo Mobile Communication Technology Ltd.
149FE8 (base 16) Lenovo Mobile Communication Technology Ltd.
No.999,Qishan North 2nd Road,Information&Optoelectronics Park,Torch Hi-tech Industry Development Zone
Xiamen Fujian 361006
CN

BC-D9-40 (hex) ASR Co,.Ltd.

BCD940 (base 16) ASR Co,.Ltd.
1-3-1 Sotokanda Chiyoda-ku
Tokyo 101-0021
JP

68-B4-3A (hex) WaterFurnace International,
Inc.
68B43A (base 16) WaterFurnace International, Inc.
9000 Conservation Way
Fort Wayne IN 46809
US

4C-78-97 (hex) Arrowhead Alarm Products Ltd
4C7897 (base 16) Arrowhead Alarm Products Ltd
344B Rosedale Road
Auckland Auckland 0751
NZ

44-E8-A5 (hex) Myreka Technologies Sdn. Bhd.
44E8A5 (base 16) Myreka Technologies Sdn. Bhd.
2-13, JALAN MAYANG PASIR 1,
Bayan Baru Penang 11950
MY

B4-82-C5 (hex) Relay2, Inc.
B482C5 (base 16) Relay2, Inc.
1525 McCarthy Blvd.,
Milpitas CA 95035
US

D8-AF-F1 (hex) Panasonic Appliances Company
D8AFF1 (base 16) Panasonic Appliances Company
2-3-1-2 Noji-higashi
Kusatsu City Shiga 525-8555
JP

2C-62-89 (hex) Regenersis (Glenrothes) Ltd
2C6289 (base 16) Regenersis (Glenrothes) Ltd
1 James Watt Avenue
Glenrothes Fife KY7 4UA
GB

58-EC-E1 (hex) Newport Corporation
58ECE1 (base 16) Newport Corporation
1791 Deere
Ave.
Irvine California 92606
US

4C-09-B4 (hex) zte corporation
4C09B4 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

58-CF-4B (hex) Lufkin Industries
58CF4B (base 16) Lufkin Industries
811 Willow Oak Drive
Missouri City Texas 77489
US

38-8A-B7 (hex) ITC Networks
388AB7 (base 16) ITC Networks
3F Daiwa Shibaura Bldg
Tokyo 105-0023
JP

D4-8C-B5 (hex) Cisco Systems, Inc
D48CB5 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A8-65-B2 (hex) DONGGUAN YISHANG ELECTRONIC TECHNOLOGY CO., LIMITED
A865B2 (base 16) DONGGUAN YISHANG ELECTRONIC TECHNOLOGY CO., LIMITED
3rd floor, B# Building ,Houdefu Logistics Park,Qingshuiao,
Dongguan Guangdong 523062
CN

E8-D0-FA (hex) MKS Instruments Deutschland GmbH
E8D0FA (base 16) MKS Instruments Deutschland GmbH
Schatzbogen 43
Munich
81829
DE

98-26-2A (hex) Applied Research Associates, Inc
98262A (base 16) Applied Research Associates, Inc
4300 San Mateo Boulevard NE
Albuquerque NM 87110
US

3C-91-74 (hex) ALONG COMMUNICATION TECHNOLOGY
3C9174 (base 16) ALONG COMMUNICATION TECHNOLOGY
1301, Zhenye International Business Center,
Shenzhen Guandong 518000

CN

DC-37-D2 (hex) Hunan HKT Electronic Technology Co., Ltd
DC37D2 (base 16) Hunan HKT Electronic Technology Co., Ltd
Room 428,4F,Hunan Environmental Science and Technology Committee Building,No 18 South of Wanjiali Road,Yuhua District,Changsha
Changsha Hunan 410007
CN

54-9D-85 (hex) EnerAccess inc
549D85 (base 16) EnerAccess inc
3154 Le Corbusier Blvd
Laval Quebec H7L 4S8
CA

B0-75-0C (hex) QA Cafe
B0750C (base 16) QA Cafe
33 Jewell Court
Portsmouth NH 03801
US

B4-E1-EB (hex) Private
B4E1EB (base 16) Private

EC-D1-9A (hex) Zhuhai Liming Industries Co., Ltd
ECD19A (base 16) Zhuhai Liming Industries Co., Ltd
No.6 Xinqing Rd,Xinqing Hi-Tech Industrial Park
Zhuhai Guangdong 519100
CN

34-81-37 (hex) UNICARD SA
348137 (base 16) UNICARD SA
UL.WADOWICKA 12
KRAKOW woj. malopolskie 30-415
PL

38-B1-2D (hex) Sonotronic Nagel GmbH
38B12D (base 16) Sonotronic Nagel GmbH
Becker-Goering-Str. 17-25
Karlsbad 76307
DE

AC-EE-3B (hex) 6harmonics Inc
ACEE3B (base 16) 6harmonics Inc
21 Concourse Gate - Suite 10
Ottawa Ontario K2E 7S4
CA

A0-6D-09 (hex) Intelcan Technosystems Inc.
A06D09 (base 16) Intelcan Technosystems Inc.
5490 Boul Thimens
Saint-Laurent Quebec H4R2K9
CA

60-F3-DA (hex) Logic Way GmbH
60F3DA (base 16) Logic Way GmbH
Hagenower Str. 73
Schwerin Mecklenburg-West Pomerania 19061
DE

3C-36-3D (hex) Nokia Corporation
3C363D (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu
90570
FI

80-86-98 (hex) Netronics Technologies Inc.
808698 (base 16) Netronics Technologies Inc.
600-15 Allstate Parkway
Markham Ontario L3R 5B4
CA

1C-6B-CA (hex) Mitsunami Co., Ltd.
1C6BCA (base 16) Mitsunami Co., Ltd.
2-30-11, Nishi-gotanda, Shinagawa-ku
Tokyo 141-0031
JP

E8-3E-FB (hex) GEODESIC LTD.
E83EFB (base 16) GEODESIC LTD.
18,10TH CROSS, MAYURA STREET
BANGALORE KARNATAKA 560094
IN

64-24-00 (hex) Xorcom Ltd.
642400 (base 16) Xorcom Ltd.
Teradyon Industrial Park
D.N Misgav 20179
IL

9C-E1-0E (hex) NCTech Ltd
9CE10E (base 16) NCTech Ltd
20-22 Braid Road
Edinburgh EH10 6AD

GB

40-70-74 (hex) Life Technology (China) Co., Ltd
407074 (base 16) Life Technology (China) Co., Ltd
No.1, 2F, Nanshan Digital Culture Industrial base (East Tower Podium) 10128 Shennan Blvd, Nanshan Dist.
Shenzhen Guangdong 518000
CN

20-F0-02 (hex) MTData Developments
Pty. Ltd.
20F002 (base 16) MTData Developments Pty. Ltd.
20 Miles Street
Mulgrave Victoria 3170
AU

FC-50-90 (hex) SIMEX Sp. z o.o.
FC5090 (base 16) SIMEX Sp. z o.o.
ul. Wielopole 7
Gdañsk pomorskie 80-556
PL

60-B9-82 (hex) RO.VE.R. Laboratories S.p.A.
60B982 (base 16) RO.VE.R. Laboratories S.p.A.
Via Parini, 2
Sirmione Brescia 25019
IT

B4-62-38 (hex) Exablox
B46238 (base 16) Exablox
365 San Antonio Road
Mountain View CA 94040
US

C8-BB-D3 (hex) Embrane
C8BBD3 (base 16) Embrane
2350 Mission College Blvd., Ste 703
Santa Clara CA 95054
US

1C-F4-CA (hex) Private
1CF4CA (base 16) Private

B4-A4-B5 (hex) Zen Eye Co.,Ltd
B4A4B5 (base 16) Zen Eye Co.,Ltd
#401, 157-5 Chunui-dong
Bucheon-si Gyeonggi-do 420-859
KR

BC-C2-3A (hex) Thomson Video Networks
BCC23A (base 16) Thomson Video Networks
6, rue du Clos Courtel
Cesson Sevigne 35510
FR

AC-C2-EC
(hex) CLT INT'L IND. CORP.
ACC2EC (base 16) CLT INT'L IND. CORP.
11F-2, NO.1, ZHANQIAN
MIAOLI 36043
TW

3C-9F-81 (hex) Shenzhen CATIC Bit Communications Technology Co.,Ltd
3C9F81 (base 16) Shenzhen CATIC Bit Communications Technology Co.,Ltd
in Nanshan District,Shenzhen Software park Road 10 in Room 202
Shenzhen Guangdong 518057
CN

44-5F-7A (hex) Shihlin Electric & Engineering Corp.
445F7A (base 16) Shihlin Electric & Engineering Corp.
16F NO.88, SEC, 6, CHUNG SHAN N. RD., TAIPEI
HsinChu HsinFun Shiang 304
TW

14-1A-51 (hex) Treetech Sistemas Digitais
141A51 (base 16) Treetech Sistemas Digitais
Praca Claudino Alves, 141
Atibaia São Paulo 12940-800
BR

A4-7C-14 (hex) ChargeStorm AB
A47C14 (base 16) ChargeStorm AB
Laxholmstorget 3
Norrköping 60221
SE

80-20-AF (hex) Trade FIDES, a.s.
8020AF (base 16) Trade FIDES, a.s.
Dornych 57
Brno
61700
CZ

3C-B8-7A (hex) Private
3CB87A (base 16) Private

00-2D-76 (hex) TITECH GmbH

002D76 (base 16) TITECH GmbH
Otto-Hahn-Str. 6
Muelheim-Kaerlich 56218
DE

8C-60-4F (hex) Cisco Systems, Inc
8C604F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A4-B9-80 (hex) Parking BOXX Inc.
A4B980 (base 16) Parking BOXX Inc.
382 NE 191st St. #93984
Miami FL 33179-3899
US

2C-75-0F (hex) Shanghai Dongzhou-Lawton Communication Technology Co. Ltd.
2C750F (base 16) Shanghai Dongzhou-Lawton Communication Technology Co. Ltd.
NO.188,FengyeRoad,BaoshanDistrict
shanghai 200949
CN

5C-50-15 (hex) Cisco Systems, Inc
5C5015 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

08-8F-2C (hex) Amber Technology Ltd.
088F2C (base 16) Amber Technology Ltd.
Unit 1, 2 Daydream Street
Warriewood New South Wales 2102
AU

44-13-19
(hex) WKK TECHNOLOGY LTD.
441319 (base 16) WKK TECHNOLOGY LTD.
23/F., One Kowloon, No.1, Wang Yuen Street,
852
HK

98-02-84 (hex) Theobroma Systems GmbH
980284 (base 16) Theobroma Systems GmbH
Gutheil-Schoder Gasse 17
Wien 1230
US

1C-D4-0C (hex) Kriwan Industrie-Elektronik GmbH
1CD40C (base 16) Kriwan Industrie-Elektronik GmbH
Allmand 11
Forchtenberg Baden-Würtemberg D-74670
DE

F8-DB-4C (hex) PNY Technologies, INC.
F8DB4C (base 16) PNY Technologies, INC.
100 Jefferson Road
Parsippany New Jersey 07054
US

0C-9D-56 (hex) Consort Controls Ltd
0C9D56 (base 16) Consort Controls Ltd
13 Campion Terrace
Leamington Spa CV32 4SU
GB

58-7F-C8 (hex) S2M
587FC8 (base 16) S2M
2 rue des champs
Saint Marcel 27950
FR

20-05-05 (hex) RADMAX COMMUNICATION PRIVATE LIMITED
200505 (base 16) RADMAX COMMUNICATION PRIVATE LIMITED
F-24/34, IIND FLOOR, SECTOR-7
DELHI
DELHI 110085
IN

AC-14-61 (hex) ATAW Co., Ltd.
AC1461 (base 16) ATAW Co., Ltd.
Dongan-gu Pyeongchon-dong 126-1
Anyang-si Gyeonggi-do 431-755
KR

E4-C6-E6 (hex) Mophie, LLC
E4C6E6 (base 16) Mophie, LLC
2850 Red Hill Ave.
Santa Ana CA 92705
US

50-2D-1D (hex) Nokia Corporation
502D1D (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

F4-8E-09 (hex) Nokia Corporation
F48E09 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

58-48-C0 (hex) COFLEC
5848C0 (base 16) COFLEC
Parc d'activités du moulin de Massy
MASSY 91300
FR

84-49-15 (hex) vArmour Networks, Inc.
844915 (base 16) vArmour Networks, Inc.
4633 OLD IRONSIDES DR
SANTA CLARA CA 95054-1807
US

C8-45-44 (hex) Asia Pacific CIS (Wuxi) Co, Ltd
C84544 (base 16) Asia Pacific CIS (Wuxi) Co, Ltd
No 11, Xikun Road, Wuxi New District
Wuxi Jiangsu 214028
CN

8C-57-FD
(hex) LVX Western
8C57FD (base 16) LVX Western
700 54th ave North
St. Cloud MN 56303
US

54-E6-3F (hex) ShenZhen LingKeWeiEr Technology Co., Ltd.
54E63F (base 16) ShenZhen LingKeWeiEr Technology Co., Ltd.
Room 625, YiJing Building, MeiLin Rd., FuTian District
ShenZhen GuandDong 518000
CN

20-FA-BB (hex) Cambridge Executive Limited
20FABB (base 16) Cambridge Executive Limited
St John's Innovation Centre
Cambridge Cambridgeshire CB40WS
GB

C0-35-BD (hex) Velocytech Aps
C035BD (base 16) Velocytech Aps
Automatikvej 1, 3rd floor
SOEBORG 2860

DK

28-71-84 (hex) Spire Payments
287184 (base 16) Spire Payments
Units 3 & 6 Milford Trading Estate
Salisbury Wiltshire SP1 2UD
GB

7C-B0-3E (hex) OSRAM GmbH
7CB03E (base 16) OSRAM GmbH
Berliner Allee 65
Augsburg Bayern 86136
DE

E0-EF-25 (hex) Lintes Technology Co., Ltd.
E0EF25 (base 16) Lintes
Technology Co., Ltd.
9F-1., No.150, Jian 1st Rd., Zhonghe Dist.,
New Taipei City 23511
TW

B0-1C-91 (hex) Elim Co
B01C91 (base 16) Elim Co
4F Gagu Plaza B/D 81-9, jeongja-dong, Jangan-gu,
Suwon city Gyeonggi-Do 440-300
KR

2C-BE-97 (hex) Ingenieurbuero Bickele und Buehler GmbH
2CBE97 (base 16) Ingenieurbuero Bickele und Buehler GmbH
St.Poeltener Str. 70
Stuttgart BW 70469
DE

50-ED-94 (hex) EGATEL SL
50ED94 (base 16) EGATEL SL
Parque Tecnologico de Galicia
Ourense 32901
ES

18-B5-91 (hex) I-Storm
18B591 (base 16) I-Storm
Hogye-dong, Dongan-gu
Anyang-si Gyeonggi-do 431-080
KR

04-F1-7D (hex) Tarana Wireless
04F17D (base 16) Tarana Wireless
2105 Martin Luther King Jr Way

Berkeley CA 94704
US

BC-8B-55 (hex) NPP ELIKS America Inc. DBA T&M Atlantic
BC8B55 (base 16) NPP ELIKS America Inc. DBA T&M Atlantic
175 SW 7th St Suite 1812
Miami FL 33130
US

C0-49-3D
(hex) MAITRISE TECHNOLOGIQUE
C0493D (base 16) MAITRISE TECHNOLOGIQUE
224 RUE DE LA SAINTE BAUME
SAINT MAXIMIN LA SAINTE BAUME VAR 83470
FR

A8-49-A5 (hex) Lisantech Co., Ltd.
A849A5 (base 16) Lisantech Co., Ltd.
1108, STX V-Tower Gasan-dong
Seoul 153-803
KR

A0-5E-6B (hex) MELPER Co., Ltd.
A05E6B (base 16) MELPER Co., Ltd.
207, 2nd FL.,Wonhyo Bldg.,1365-22
SEOUL 137-863
KR

D8-78-E5 (hex) KUHN SA
D878E5 (base 16) KUHN SA
4, impasse des fabriques
SAVERNE 67700
FR

D8-24-BD (hex) Cisco Systems, Inc
D824BD (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

28-CD-1C (hex) Espotel Oy
28CD1C (base 16) Espotel Oy
Kappelitie 6
Espoo Espoo FI-02200
FI

D4-43-A8 (hex) Changzhou Haojie Electric Co., Ltd.
D443A8 (base 16) Changzhou Haojie Electric Co., Ltd.

No. 158,
Changzhou Jiangsu 213022
CN

BC-E5-9F
(hex) WATERWORLD Technology Co.,LTD
BCE59F (base 16) WATERWORLD Technology Co.,LTD
6 Floor,Block B,Digital Building,Garden City,No.1079,Nanhai Road,Nanshan District,
Shenzhen Guangdong 518067
US

C4-67-B5 (hex) Libratone A/S
C467B5 (base 16) Libratone A/S
Marielundvej 43 A
2730 HERLEV
DK

4C-39-10 (hex) Newtek Electronics co., Ltd.
4C3910 (base 16) Newtek Electronics co., Ltd.
Byucksan-Sunyoung Technopia 1004,
Uiwang-City Kyunggi-Do 437-821
KR

AC-0D-FE (hex) Ekon GmbH - myGEKKO
AC0DFE (base 16) Ekon GmbH - myGEKKO
Rienzfeldstraße 30
Bruneck Südtirol (BZ) 39031
IT

FC-5B-26 (hex) MikroBits
FC5B26 (base 16) MikroBits
Jalan Petung 31 Papringan
Yogyakarta DIY 55281
ID

40-F4-07 (hex) Nintendo Co., Ltd.
40F407 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

90-0A-3A (hex) PSG Plastic Service GmbH
900A3A (base
16) PSG Plastic Service GmbH
Pinaer Str. 12-16
Mannheim BW 68309
DE

DC-3C-2E (hex) Manufacturing System Insights, Inc.
DC3C2E (base 16) Manufacturing System Insights, Inc.
2550 Ninth St.
Berkely CA 94710
US

90-3A-A0 (hex) Nokia
903AA0 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

B0-6C-BF (hex) 3ality Digital Systems GmbH
B06CBF (base 16) 3ality Digital Systems GmbH
Gut Mergenthau 1
Kissing Bayern 86438
DE

F8-35-53 (hex) Magenta Research Ltd.
F83553 (base 16) Magenta Research Ltd.
128 Litchfield Road
New Milford CT 06776
US

F4-04-4C (hex) ValenceTech Limited
F4044C (base 16) ValenceTech Limited
Unit 1, 20/F., APEC Plaza
HONG KONG NIL
CN

34-97-FB (hex) ADVANCED RF TECHNOLOGIES INC
3497FB (base 16) ADVANCED RF TECHNOLOGIES INC
3116 W Vanowen St
Burbank California 91505
US

70-41-B7 (hex) Edwards Lifesciences LLC
7041B7
(base 16) Edwards Lifesciences LLC
One Edwards Way
Irvine CA 92614
US

DC-A8-CF (hex) New Spin Golf, LLC.
DCA8CF (base 16) New Spin Golf, LLC.
1637 Burr Oak Drive
Libertyville IL 60048
US

F0-3A-55 (hex) Omega Elektronik AS
F03A55 (base 16) Omega Elektronik AS
Ege Serbest Bolgesi
Izmir 35410
TR

98-BC-57 (hex) SVA TECHNOLOGIES CO.LTD
98BC57 (base 16) SVA TECHNOLOGIES CO.LTD
5F No.192 Tinglin Road,
SHANGHAI 200233
CN

48-A2-2D (hex) Shenzhen Huaxuchang Telecom Technology Co.,Ltd
48A22D (base 16) Shenzhen Huaxuchang Telecom Technology Co.,Ltd
Room 501 Block B, Cyber Time Plaza
Shenzhen Guangdong 518040
CN

C8-60-00 (hex) ASUSTek COMPUTER INC.
C86000 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

70-A6-6A (hex) Prox Dynamics AS
70A66A (base 16) Prox Dynamics AS
Smedsvingen 4
Hvalstad Akershus
1395
NO

DC-3E-51 (hex) Solberg & Andersen AS
DC3E51 (base 16) Solberg & Andersen AS
Litleaasvegen 61
Bergen 5132
NO

84-36-11 (hex) hyungseul publishing networks
843611 (base 16) hyungseul publishing networks
526-4, paju bookcity, munbal-li, gyoha-eup
paju-si Gyeonggi-do 413-832
KR

34-40-B5 (hex) IBM
3440B5 (base 16) IBM
3039 E Cornwallis Rd
Research Triangle Park NC 27709

US

64-4B-F0 (hex) CalDigit, Inc
644BF0 (base 16) CalDigit, Inc
1941 Miraloma Ave #B
Placentia CA 92870
US

F0-62-0D (hex) Shenzhen Egreat Tech Corp.,Ltd
F0620D (base 16) Shenzhen Egreat Tech Corp.,Ltd
4F,1Building,Chuangye Industrial park
Shenzhen Guangdong 518104
CN

2C-67-FB (hex) ShenZhen Zhengjili Electronics Co., LTD
2C67FB (base 16) ShenZhen Zhengjili Electronics Co., LTD
The Longhua Town Shenzhen City Streets huaning three house Science Park Road Chiayi Source fifth floor
Shenzhen
Guangdong 518000
CN

EC-63-E5 (hex) ePBoard Design LLC
EC63E5 (base 16) ePBoard Design LLC
4065 E. La Palma Ave.
Anaheim California 92807
US

94-DB-49 (hex) SITCORP
94DB49 (base 16) SITCORP
7 RUE CADET
PARIS 75015
FR

3C-E5-B4 (hex) KIDASEN INDUSTRIA E COMERCIO DE ANTENAS LTDA
3CE5B4 (base 16) KIDASEN INDUSTRIA E COMERCIO DE ANTENAS LTDA
AV SINCLER SAMBATTI, 1945
MARINGA PARANA 87055-020
BR

08-D0-9F (hex) Cisco Systems, Inc
08D09F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

D4-D7-48 (hex) Cisco Systems, Inc
D4D748 (base 16) Cisco Systems, Inc
80 West Tasman Drive

San Jose CA 94568
US

34-4F-69 (hex) EKINOPS SAS
344F69 (base 16) EKINOPS SAS
3, Rue Blaise Pascal
LANNION FRANCE 22300
FR

F8-31-3E (hex) endeavour GmbH
F8313E (base 16) endeavour GmbH
Max-Planck-Str. 04
Vreden NRW 48691
DE

14-36-05
(hex) Nokia Corporation
143605 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

C8-1A-FE (hex) DLOGIC GmbH
C81AFE (base 16) DLOGIC GmbH
Rathausstrasse 14
Baar ZG 6341
CH

54-D0-ED (hex) AXIM Communications
54D0ED (base 16) AXIM Communications
1F., No. 5, Aly. 12, Ln. 15, Sec. 6, Sinyi Rd., Sinyi Dist.,
Taipei 110
TW

2C-00-2C (hex) UNOWHY
2C002C (base 16) UNOWHY
11, rue Tronchet
Paris 75008
US

64-ED-62 (hex) WOORI SYSTEMS Co., Ltd
64ED62 (base 16) WOORI SYSTEMS Co., Ltd
101Ho #42-9, Jeongja-dong, Pundang-gu
Sungnam-si Kyunggi-do 463-848
KR

5C-C9-D3 (hex) PALLADIUM ENERGY ELETRONICA DA AMAZONIA LTDA
5CC9D3 (base 16) PALLADIUM ENERGY ELETRONICA DA AMAZONIA LTDA

AVENIDA BURITI, 4285
MANAUS AMAZONAS 69075-000
BR

B4-94-4E (hex) WeTelecom Co., Ltd.
B4944E (base 16) WeTelecom Co., Ltd.
The'O Plus #915
Gunpo-si Kyunggi-do 435-805
KR

E0-0B-28
(hex) Inovonics
E00B28 (base 16) Inovonics
315 CTC Blvd
Louisville CO 80027
US

00-08-30 (hex) Cisco Systems, Inc
000830 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

C4-EE-AE (hex) VSS Monitoring
C4EEAE (base 16) VSS Monitoring
1850 Gateway Dr, Suite 500
San Mateo CA 94404
US

F8-D3-A9 (hex) AXAN Networks
F8D3A9 (base 16) AXAN Networks
2F Myungjin-Bldg Daechi-Dong Gangnam-Gu
Seoul 135-845
KR

CC-6B-F1 (hex) Sound Masking Inc.
CC6BF1 (base 16) Sound Masking Inc.
47 - 23 - Glamis Drive Sw
Calgary Alberta T3E 6S3
CA

18-E8-0F (hex) Viking Electronics Inc.
18E80F (base 16) Viking Electronics Inc.
1531 Industrial St
Hudson WI 54016
US

2C-97-17 (hex) I.C.Y. B.V.

2C9717 (base 16) I.C.Y. B.V.
Houtsaachmole 35
Lemmer Friesland 8531 WC
NL

98-82-17 (hex) Disruptive Ltd
988217 (base 16) Disruptive
Ltd
Windsor House
High Wycombe Buckinghamshire HP12 3NR
GB

C8-7C-BC (hex) Valink Co., Ltd.
C87CBC (base 16) Valink Co., Ltd.
1F Dongwon Bldg. 90, Dangsan-Dong 3-Ga Youngdungpo-Gu
Seoul 150-803
KR

B8-14-13 (hex) Keen High Holding(HK) Ltd.
B81413 (base 16) Keen High Holding(HK) Ltd.
25th Floor, In-long Development Centre, No.6025 Shennan Ave
Shenzhen Guangdong 518040
CN

48-02-2A (hex) B-Link Electronic Limited
48022A (base 16) B-Link Electronic Limited
NO 268,FuQian Rd, JuTang Community,GuanLan town BaoAn district,ShenZhen, 518110,China
Shen Zhen Guang Dong 518110
CN

34-5B-11 (hex) EVI HEAT AB
345B11 (base 16) EVI HEAT AB
Box 55
Kungsaengen 196 22
SE

78-BA-D0 (hex) Shinybow Technology Co. Ltd.
78BAD0 (base 16) Shinybow Technology Co. Ltd.
9Fl.,No.63,Ju Guang Rd.,Chung Ho Dist.
New Taipei 235
TW

0C-5A-19 (hex) Axtion Sdn Bhd
0C5A19 (base
16) Axtion Sdn Bhd
A13-07, Subang Avenue Serviced Suites
Subang Jaya Selangor 47500
MY

A8-BD-1A (hex) Honey Bee (Hong Kong) Limited
A8BD1A (base 16) Honey Bee (Hong Kong) Limited
Flat L, 12/F., Phase 4, Kwun Tong Industrial Ctr.,

HK

2C-3F-38 (hex) Cisco Systems, Inc
2C3F38 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

40-50-E0 (hex) Milton Security Group LLC
4050E0 (base 16) Milton Security Group LLC
111 North Harbor Blvd
Fullerton CA 92832
US

70-CA-9B (hex) Cisco Systems, Inc
70CA9B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

9C-A3-BA (hex) SAKURA Internet Inc.
9CA3BA (base 16) SAKURA Internet Inc.
7-20-1 Nishi-shinjuku
Shinjuku-ku Tokyo 1600023
JP

A0-78-BA (hex) Pantech Co., Ltd.
A078BA (base 16) Pantech Co., Ltd.
110-1 Ongjeong-Ri, Tongjin-Eup
Gimpo-Si Gyounggi-Do 415-865
KR

68-BC-0C
(hex) Cisco Systems, Inc
68BC0C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

DC-B4-C4 (hex) Microsoft XCG
DCB4C4 (base 16) Microsoft XCG
1 Microsoft Way
Redmond WA 98052

US

AC-CB-09 (hex) Hefcom Metering (Pty) Ltd
ACCB09 (base 16) Hefcom Metering (Pty) Ltd
PO Box 10770
Centurion Gauteng 0046
ZA

18-66-E3 (hex) Veros Systems, Inc.
1866E3 (base 16) Veros Systems, Inc.
PO Box 10534
College Station Texas 77842
US

74-FD-A0 (hex) Compupal (Group) Corporation
74FDA0 (base 16) Compupal (Group) Corporation
No.1555 Jiashan Avenue
Jiashan Zhejiang 314113
CN

CC-B8-F1 (hex) EAGLE KINGDOM TECHNOLOGIES LIMITED
CCB8F1 (base 16) EAGLE KINGDOM TECHNOLOGIES LIMITED
FLAT/ RM B 26/F TWO CHINACHEM PLAZA 68 CONNAUGHT ROAD CENTRAL HK

HK

A4-29-B7 (hex) bluesky
A429B7 (base 16) bluesky
Rm1410 Tower A,Chengjian plaza,NO.18 beitaipingzhuang
Road,Haidian district,
Beijing 100088
CN

48-F3-17 (hex) Private
48F317 (base 16) Private

70-46-42 (hex) CHYNG HONG ELECTRONIC CO., LTD.
704642 (base 16) CHYNG HONG ELECTRONIC CO., LTD.
No.80, Lane 258, Sec. 3, Hansi W. Rd.,
Taichung 40647
TW

9C-5C-8D (hex) FIREMAX INDÚSTRIA E COMÉRCIO DE PRODUTOS ELETRÔNICOS LTDA
9C5C8D (base 16) FIREMAX INDÚSTRIA E COMÉRCIO DE PRODUTOS ELETRÔNICOS LTDA
R: Vicente de Felice, 589 - Jd.Ouro Verde
Limeira São Paulo 13482-075
BR

D4-20-6D (hex) HTC Corporation
D4206D (base 16) HTC Corporation
No. 23, Xinghua Rd., Taoyuan City
Taoyuan County Taiwan 330
TW

7C-1E-52 (hex) Microsoft
7C1E52 (base 16) Microsoft
1 Microsoft Way
Redmond Washington 98052
US

24-E6-BA (hex) JSC Zavod im. Kozitsky
24E6BA (base 16) JSC Zavod im. Kozitsky
Bld. 70, 5th line, V.O,
St.-Petersburg 199048
RU

CC-A3-74 (hex) Guangdong Guanglian
Electronic Technology Co.Ltd
CCA374 (base 16) Guangdong Guanglian Electronic Technology Co.Ltd
B338,Block13,No.232 Waihuandonglu Road,High Education Mega Center
Guangzhou Guangdong 510006
CN

58-67-7F (hex) Clare Controls Inc.
58677F (base 16) Clare Controls Inc.
7519 Pennsylvania Ave
Sarasota FL 34243
US

40-6A-AB (hex) RIM
406AAB (base 16) RIM
Phillip Street
Waterloo Ontario N2L 3W8
CA

24-87-07 (hex) SEnergy Corporation
248707 (base 16) SEnergy Corporation
Koizumi Bldg. 3F, 1-38-18
Yokohama city Kanagawa Pref. 224-0003
JP

C4-C1-9F (hex) National Oilwell Varco Instrumentation, Monitoring, and Optimization (NOV IMO)
C4C19F (base 16) National Oilwell Varco Instrumentation, Monitoring, and Optimization (NOV IMO)
1200 Cypress Creek Rd.
Cedar Park TX 78613
US

04-88-8C (hex) Eifelwerk Butler Systeme GmbH
04888C (base 16) Eifelwerk Butler Systeme GmbH
Eifelwerkstrasse
1
Malbergweich 54655
DE

CC-F8-F0 (hex) Xi'an HISU Multimedia Technology Co.,Ltd.
CCF8F0 (base 16) Xi'an HISU Multimedia Technology Co.,Ltd.
3 Floor , NO.1 Building , Modern Business Enterprise Centre (East) , NO.69, Jinye road , XiÂ¡Â¯an
Xi'an City Shanxi Province 710075
CN

30-DE-86 (hex) Cedac Software S.r.l.
30DE86 (base 16) Cedac Software S.r.l.
Via Toscana, 3
Castiglione dei Pepoli Bologna 40035
IT

18-C4-51 (hex) Tucson Embedded Systems
18C451 (base 16) Tucson Embedded Systems
5620 North Kolb Road
Tucson AZ 85750
US

D4-1C-1C (hex) RCF S.P.A.
D41C1C (base 16) RCF S.P.A.
Via Raffaello Sanzio 13
Reggio Emilia Italy 42124
IT

8C-8A-6E (hex) ESTUN AUTOMATION TECHNOLOY CO., LTD
8C8A6E (base 16) ESTUN AUTOMATION TECHNOLOY CO., LTD
16,Shuige Road
Nanjing Jiangsu 211106
CN

BC-77-9F (hex) SBM Co., Ltd.
BC779F (base 16) SBM Co., Ltd.
Hyunwoo Bldg 206, Anyang7-Dong
Anyang
Gyeonggi-Do 430-817
KR

58-92-0D (hex) Kinetic Avionics Limited
58920D (base 16) Kinetic Avionics Limited
Elstree Aerodrome

Hertfordshire WD6 3AW
GB

B8-B4-2E (hex) Gionee Communication Equipment Co,Ltd.ShenZhen
B8B42E (base 16) Gionee Communication Equipment Co,Ltd.ShenZhen
21/F Times Technology Building, 7028 Shennan Road, Futian District,
Shenzhen Guangdong 518040
CN

44-3E-B2 (hex) DEOTRON Co., LTD.
443EB2 (base 16) DEOTRON Co., LTD.
506, Dain Bldg
Ansan Kyonggi-do 425-856
KR

D0-59-C3 (hex) CeraMicro Technology Corporation
D059C3 (base 16) CeraMicro Technology Corporation
4F, No. 16-1, Sec. 6, Mingcyuan East Road
Taipei 114
TW

1C-8E-8E (hex) DB Communication & Systems Co., ltd.
1C8E8E (base 16) DB Communication & Systems Co., ltd.
3-3 Yeongdeok-dong, Giheung-gu
Yongin-si Gyeonggi-do 449-908
KR

AC-02-EF (hex) Comsis
AC02EF (base 16) Comsis
3
rue Broussais
Paris 75014
FR

B0-BF-99 (hex) WIZITDONGDO
B0BF99 (base 16) WIZITDONGDO
2F, 299-1, 3-DONG, SUNGSU 2-GA
SEOUL 133-833
KR

24-EC-99 (hex) ASKEY COMPUTER CORP
24EC99 (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

28-0C-B8 (hex) Mikrosay Yazilim ve Elektronik A.S.
280CB8 (base 16) Mikrosay Yazilim ve Elektronik A.S.

Cevizli Mah. Tansel Cad.
Istanbul 34846
TR

3C-C9-9E (hex) Huiyang Technology Co., Ltd
3CC99E (base 16) Huiyang Technology Co., Ltd
22D 7 Block ZhonghuiNewcity
Dongguan Guangdong 523849
CN

78-BE-B6 (hex) Enhanced Vision
78BEB6 (base 16) Enhanced Vision
5882 MACHINE DR.
Huntington Beach California 92649
US

2C-1E-EA (hex) AERODEV
2C1EEA (base 16) AERODEV
No.59,1985 Lane,Chunshen Road,
Shanghai 200237
CN

B4-FC-75 (hex) SEMA Electronics(HK) CO.,LTD
B4FC75
(base 16) SEMA Electronics(HK) CO.,LTD
Xialingbei Industrial Zone Liaobu,
Dongguan Guangdong 523411
CN

FC-17-94 (hex) InterCreative Co., Ltd
FC1794 (base 16) InterCreative Co., Ltd
897-6, HoGye-Dong, DongAn-Gu,
AnYang-Si, GyeongGi-Do, 431-836
KR

B4-0B-7A (hex) Brusa Elektronik AG
B40B7A (base 16) Brusa Elektronik AG
Neudorf 14
Sennwald St. Gallen 9466
CH

D4-5A-B2 (hex) Galleon Systems
D45AB2 (base 16) Galleon Systems
Unit 9, Fortnum Close
Birmingham West Midlands B33 0LG
GB

18-2C-91 (hex) Concept Development, Inc.

182C91 (base 16) Concept Development, Inc.
1881 Langley Avenue
Irvine CA 92614-5623
US

A4-4B-15 (hex) Sun Cupid Technology (HK) LTD
A44B15 (base 16) Sun Cupid Technology (HK) LTD
Room 1201-3, 12/F., Tower 6
Tsim Sha Tsui
HK

48-C8-62 (hex) Simo Wireless,Inc.
48C862 (base 16) Simo Wireless,Inc.
326#,Building 4,Zhongxing Industrial Park,Chuangye
Shenzhen
Guangdong 518054
CN

A0-16-5C (hex) Triteka LTD
A0165C (base 16) Triteka LTD
Malha Technology Park
Jerusalem 96951
IL

44-9C-B5 (hex) Alcomp, Inc
449CB5 (base 16) Alcomp, Inc
11537 Walnut Lane
Fort Atkinson WI 53538
US

70-B9-21 (hex) Fiberhome Telecommunication Technologies Co.,LTD
70B921 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

9C-41-7C (hex) Hame Technology Co., Limited
9C417C (base 16) Hame Technology Co., Limited
5F, No. 18 High Tech Middle Avenue One, High Tech Industrial Park, Nanshan District,
Shenzhen Guangdong 518057
CN

9C-6A-BE (hex) QEES ApS.
9C6ABE (base 16) QEES ApS.
Naverland 31, 2.tv
Glostrup Hovedstaden 2600
DK

E8-94-4C (hex) Cogent Healthcare Systems Ltd
E8944C (base 16) Cogent Healthcare Systems Ltd
69 Alma Road
Berkshire SL4 3HT
GB

90-67-F3
(hex) Alcatel Lucent
9067F3 (base 16) Alcatel Lucent
Via Energy Park, 14
Vimercate MB 20871
IT

A0-E2-95 (hex) DAT System Co.,Ltd
A0E295 (base 16) DAT System Co.,Ltd
Gun San Free Trade Area 511-1 ,
573-540
KR

40-F1-4C (hex) ISE Europe SPRL
40F14C (base 16) ISE Europe SPRL
Fauvette 1
Uccle 1180
BE

38-26-CD (hex) ANDTEK
3826CD (base 16) ANDTEK
Am Soeldnermoos 17
Hallbergmoos Bavaria 85399
DE

D8-97-3B (hex) Artesyn Embedded Technologies
D8973B (base 16) Artesyn Embedded Technologies
16/F Lu Plaza Building
Kwun Tong Kowloon 00000
HK

D4-F0-B4 (hex) Napco Security Technologies
D4F0B4 (base 16) Napco Security Technologies
333 Bayview Ave
Amityville NY 11701
US

9C-93-4E (hex) Xerox Corporation
9C934E (base 16) Xerox Corporation
Mail Stop 0214 - 7E
Webster NY 14580
US

68-F8-95 (hex) Redflow Limited
68F895 (base 16) Redflow
Limited
1/27 Counihan Rd
Brisbane Queensland 4073
AU

2C-8B-F2 (hex) Hitachi Metals America Ltd
2C8BF2 (base 16) Hitachi Metals America Ltd
1920 Zanker Road
San Jose CA 95112
US

90-09-17 (hex) Far-sighted mobile
900917 (base 16) Far-sighted mobile
Technology Park Desay Building 6th-Floor
Shenzhen Guangdong Province 518000
CN

04-46-65 (hex) Murata Manufacturing Co., Ltd.
044665 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

58-E4-76 (hex) CENTRON COMMUNICATIONS TECHNOLOGIES FUJIAN CO.,LTD
58E476 (base 16) CENTRON COMMUNICATIONS TECHNOLOGIES FUJIAN CO.,LTD
4th Floor,Jiaodajiepu Building,72# Kejierlu Road,
Xi'an Shaanxi Province 710100
CN

44-7E-95 (hex) Alpha and Omega, Inc
447E95 (base 16) Alpha and Omega, Inc
4735 Montview Blvd
Denver CO 80207
US

F4-A5-2A (hex) Hawa Technologies Inc
F4A52A (base 16) Hawa
Technologies Inc
336 Hayes St
San Francisco California 94102
US

E8-B7-48 (hex) Cisco Systems, Inc
E8B748 (base 16) Cisco Systems, Inc
80 West Tasman Drive

San Jose CA 94568
US

0C-6E-4F (hex) PrimeVOLT Co., Ltd.
0C6E4F (base 16) PrimeVOLT Co., Ltd.
2F-3, No. 9, Lane 3, Jihu Rd, Neihu
Taipei 11492
TW

98-60-22 (hex) EMW Co., Ltd.
986022 (base 16) EMW Co., Ltd.
80B-4L, 680-3 Gojan-Dong
Incheon 405-819
KR

BC-99-BC (hex) FonSee Technology Inc.
BC99BC (base 16) FonSee Technology Inc.
14F-2, No.32, Gaotie 2nd Rd.,
Zhubei City Hsinchu County 302
TW

78-3F-15 (hex) EasySYNC Ltd.
783F15 (base 16) EasySYNC Ltd.
Unit 1, 2 Seaward Place
Glasgow Scotland G41 1HH
GB

18-D0-71 (hex) DASAN CO., LTD.
18D071 (base 16) DASAN CO., LTD.
DASAN Tower 7F, 49 Daewangpangyo-ro644beon-gil
Seongnam-si Gyeonggi-do 463-760
KR

24-CB-E7 (hex) MYK, Inc.
24CBE7
(base 16) MYK, Inc.
4-60-30-108, Kamoi,
Yokohama Kanagawa 226-0003
JP

B0-A1-0A (hex) Pivotal Systems Corporation
B0A10A (base 16) Pivotal Systems Corporation
4683 Chabot Drive
Pleasanton CA 94588
US

80-2D-E1 (hex) Solarbridge Technologies
802DE1 (base 16) Solarbridge Technologies

9229 Waterford Centre Blvd
Austin TX 78758
US

B8-D4-9D (hex) M Seven System Ltd.
B8D49D (base 16) M Seven System Ltd.
24F, Trust Tower Bldg, 275-7, Yangjae2-Dong, Seocho-Gu
Seoul 137-739
KR

88-BF-D5 (hex) Simple Audio Ltd
88BFD5 (base 16) Simple Audio Ltd
Unit 59 Elderpark Workspace
Glasgow G51 3TR
GB

3C-67-2C (hex) Sciovid Inc.
3C672C (base 16) Sciovid Inc.
387 S Silverbrook Dr
Anaheim CA 92807
US

14-74-11 (hex) RIM
147411 (base 16) RIM
Phillip Street
Waterloo Ontario N2L 3W8
CA

F8-A9-DE (hex) PUISSANCE PLUS
F8A9DE (base 16) PUISSANCE PLUS
222
Impasse Louis Lépine
Montauban 82000
FR

B8-87-1E (hex) Good Mind Industries Co., Ltd.
B8871E (base 16) Good Mind Industries Co., Ltd.
22, Ta Yeou 2nd St,
Kaohsiung 831
TW

D4-F0-27 (hex) Trust Power Ltd.
D4F027 (base 16) Trust Power Ltd.
13 Berkley Street
London W1J 8DU
GB

DC-9B-1E (hex) Intercom, Inc.

DC9B1E (base 16) Intercom, Inc.
Sorimachi Bldg., 3-5, Taito 1-chome,
Taito-ku Tokyo 110-8654
JP

BC-5F-F4 (hex) ASRock Incorporation
BC5FF4 (base 16) ASRock Incorporation
2F.,No.37, Sec.2, Jhongyang S.Rd., Beitou Distric,
Taipei 112
TW

E8-B4-AE (hex) Shenzhen C&D Electronics Co.,Ltd
E8B4AE (base 16) Shenzhen C&D Electronics Co.,Ltd
Building 2, Xia You Song Mountain Top Industrial District, You Song Village
Shenzhen Guang Dong 518000
CN

CC-C6-2B (hex) Tri-Systems Corporation
CCC62B (base 16) Tri-Systems Corporation
3-27-8 TRS Building 3F
Hachioji
Tokyo 192-0904
JP

D8-C0-68 (hex) Netgenetech.co.,ltd.
D8C068 (base 16) Netgenetech.co.,ltd.
704, Hanlim Venture Town., #689-6,
Gunpo-si 435-862
KR

60-11-99 (hex) Siama Systems Inc
601199 (base 16) Siama Systems Inc
410 Saint-Nicolas Street
Montreal Quebec H2Y 2P5
CA

A8-8C-EE (hex) MicroMade Galka i Drozdz sp.j.
A88CEE (base 16) MicroMade Galka i Drozdz sp.j.
ul. Wieniawskiego 16
Pila Wielkopolskie 64-920
PL

C0-27-B9 (hex) Beijing National Railway Research & Design Institute of Signal & Communication Co., Ltd.
C027B9 (base 16) Beijing National Railway Research & Design Institute of Signal & Communication Co., Ltd.
Building No.18, Huayuan YiLi,Fengtai District,
Beijing 100073
CN

B0-BD-A1 (hex) ZAKLAD ELEKTRONICZNY SIMS
B0BDA1 (base 16) ZAKLAD ELEKTRONICZNY SIMS
POD SKARPA 51A
BYDGOSZCZ KUJAWSKO-POMORSKIE 85-796
PL

70-B2-65 (hex) Hiltron s.r.l.
70B265
(base 16) Hiltron s.r.l.
Strada Provinciale di Caserta, 218
Naples 80144
IT

78-1D-FD (hex) Jabil Inc
781DFD (base 16) Jabil Inc
10500 Dr. Martin Luther King Jr. St. N.
St. Petersburg Florida 33716
US

18-AE-BB (hex) Siemens Convergence Creators GmbH&Co.KG
18AEBB (base 16) Siemens Convergence Creators GmbH&Co.KG
Communications, Media and Technology
Hamburg D-21079
DE

50-FA-AB (hex) L-tek d.o.o.
50FAAB (base 16) L-tek d.o.o.
Obrtna cesta 18
Sentjernej 8310
SI

38-91-FB (hex) Xenox Holding BV
3891FB (base 16) Xenox Holding BV
Lingedijk 80
Tricht Gelderland 4196 HC
NL

A8-E0-18 (hex) Nokia Corporation
A8E018 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

04-55-CA (hex) BriView (Xiamen) Corp.
0455CA (base 16) BriView (Xiamen) Corp.
NO.1998 West of Fangshan Road,Xiang An Branch,Torch Hi-tech lndustrial Development Zone,
Xiamen

city Fujian Province 361102
CN

14-35-B3 (hex) Future Designs, Inc.
1435B3 (base 16) Future Designs, Inc.
2702 Triana Blvd
Huntsville AL 35805
US

AC-93-2F (hex) Nokia Corporation
AC932F (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

00-54-AF (hex) Continental Automotive Systems Inc.
0054AF (base 16) Continental Automotive Systems Inc.
21440 W. Lake Cook Rd.
Deer Park IL 60010
US

AC-CA-BA (hex) Midokura Co., Ltd.
ACCABA (base 16) Midokura Co., Ltd.
7th Floor Azabudai Hinoki building
Tokyo 106-0041
JP

0C-81-12 (hex) Private
0C8112 (base 16) Private

9C-95-F8 (hex) SmartDoor Systems, LLC
9C95F8 (base 16) SmartDoor Systems, LLC
5711-A Center Lane
Falls Church Virginia 22041
US

F4-3E-9D (hex) Benu Networks, Inc.
F43E9D (base 16) Benu Networks, Inc.
300 Rd., Suite 110
Billerica MA 01821
US

64-09-4C (hex) Beijing Superbee
Wireless Technology Co.,Ltd
64094C (base 16) Beijing Superbee Wireless Technology Co.,Ltd
B7,Science-Tech Fortune Center,
Beijing 100192
CN

64-D1-A3 (hex) Sitecom Europe BV
64D1A3 (base 16) Sitecom Europe BV
Linatebaan 101
Rotterdam Zuid Holland 3045 AH
NL

DC-2B-66 (hex) InfoBLOCK S.A. de C.V.
DC2B66 (base 16) InfoBLOCK S.A. de C.V.
Hegel 229 - 10
Mexico City Distrito Federal 11570
MX

6C-81-FE (hex) Mitsuba Corporation
6C81FE (base 16) Mitsuba Corporation
1-2681
Kiryu Gunma 376-8555
JP

04-E2-F8 (hex) AEP Ticketing solutions srl
04E2F8 (base 16) AEP Ticketing solutions srl
Via dei Colli, 240
Signa Firenze 50058
IT

EC-9E-CD (hex) Artesyn Embedded Technologies
EC9ECD (base 16) Artesyn Embedded Technologies
2900 S. Diablo Way Suite 190
Tempe Arizona 85282
US

8C-51-05 (hex) Shenzhen ireadygo Information Technology CO.,LTD.
8C5105 (base 16) Shenzhen
ireadygo Information Technology CO.,LTD.
Room 02,11F,DESAY Building,No.1 Hi-Tech South Road
Shenzhen 518057
CN

C8-20-8E (hex) Storagedata
C8208E (base 16) Storagedata
Randstad 22117
Almere Flevoland 1316BW
NL

28-72-F0 (hex) ATHENA
2872F0 (base 16) ATHENA
42 RUE MONGE
PARIS 75005

FR

1C-19-DE (hex) eyevis GmbH
1C19DE (base 16) eyevis GmbH
Hundsschleestrasse 23
Reutlingen BW 72766
DE

9C-80-7D (hex) SYSCABLE Korea Inc.
9C807D (base 16) SYSCABLE Korea Inc.
2F KAMA Bldg 1461-15 Secho-3dong Seocho-Gu
Seoul 137-720
KR

74-38-89 (hex) ANNAX Anzeigesysteme GmbH
743889 (base 16) ANNAX Anzeigesysteme GmbH
Wettersteinstrasse 18
Taufkirchen Bavaria 82024
DE

44-D2-CA (hex) Anvia TV Oy
44D2CA (base 16) Anvia TV Oy
PO Box 29
SEINAJOKI FIN60101
FI

38-6E-21 (hex) Wasion Group Ltd.
386E21 (base 16) Wasion Group Ltd.
No.468 West Tongzipo Road
High-Tech Industrial Development Zone
Changsha City Hunan Province, 410205
CN

60-9E-64 (hex) Vivonic GmbH
609E64 (base 16) Vivonic GmbH
Kurfuerst-Eppstein-Ring 4
Sailauf Bayern 63877
DE

34-B5-71 (hex) PLDS
34B571 (base 16) PLDS
Schanzenfeldstrasse 2
Wetzlar Hessen 35578
DE

3C-74-37 (hex) RIM
3C7437 (base 16) RIM
Phillip Street

Waterloo Ontario N2L 3W8
CA

EC-92-33 (hex) Eddyfi NDT Inc
EC9233 (base 16) Eddyfi NDT Inc
2800, Louis-Lumiere street
Quebec Quebec G1P 0A4
CA

BC-15-A6 (hex) Taiwan Jantek Electronics,Ltd.
BC15A6 (base 16) Taiwan Jantek Electronics,Ltd.
6F-1,No.1 Wu-Chuan 1St. Rd,Wu-Ku Industrial Park,
Sinchwang City Taipei Hsien 24892
TW

DC-DE-CA (hex) Akyllor
DCDECA (base 16) Akyllor
Britannia House, 22, 2F, Cator Road
Bandar Seri Begawan BS 8811
BN

A0-AA-FD (hex) EraThink Technologies Corp.
A0AAFD (base 16) EraThink Technologies
Corp.
289 Bisheng Road Building 4,Floor 4
Shanghai 201204
CN

7C-7D-41 (hex) Jinmuyu Electronics Co., Ltd.
7C7D41 (base 16) Jinmuyu Electronics Co., Ltd.
Room 132, Building 16, Tianqiaowan
Beijing 101101
CN

4C-14-80 (hex) NOREGON SYSTEMS, INC
4C1480 (base 16) NOREGON SYSTEMS, INC
100 N. MAIN ST. SUITE 2200
WINSTON - SALEM NC 27101
US

A4-85-6B (hex) Q Electronics Ltd
A4856B (base 16) Q Electronics Ltd
Beck House, Hawksworth Road
Leeds West Yorkshire LS18 4JP
GB

20-D5-AB (hex) Korea Infocom Co.,Ltd.
20D5AB (base 16) Korea Infocom Co.,Ltd.

5F Wintek B/D 511
Uiwang Kyunggi-Do 437-830
KR

0C-F3-EE (hex) EM Microelectronic
0CF3EE (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

B0-89-91 (hex) LGE
B08991 (base 16) LGE
60-39 , Kasan -dong , Gumcheon-gu.
Seoul 153-801
KR

30-14-2D (hex) Piciorgros
GmbH
30142D (base 16) Piciorgros GmbH
Claudiastrasse 5
Cologne NRW 51149
DE

50-AF-73 (hex) Shenzhen Bitland Information Technology Co., Ltd.
50AF73 (base 16) Shenzhen Bitland Information Technology Co., Ltd.
1-4F,44 Building,Tanglang Industrial Park and 1-6F,#7 Building,XiLi Tongfuyu Industrial Town,Nanshan District
Shenzhen Guangdong 518055
CN

6C-A9-06 (hex) Telefield Ltd
6CA906 (base 16) Telefield Ltd
Flat D,2/F., Valiant Industrial Centre,2-12 Au Pui Wan Street,
Hongkong 852
CN

78-22-3D (hex) Affirmed Networks
78223D (base 16) Affirmed Networks
35 Nagog Park
Acton MA 01720
US

3C-02-B1 (hex) Creation Technologies LP
3C02B1 (base 16) Creation Technologies LP
3939 North Fraser Way
Burnaby BC V5J 5J2
CA

E4-41-E6 (hex) Ottec Technology GmbH

E441E6 (base 16) Ottec Technology GmbH
Bünteweg 33
Gehrden Lower Saxony 30989
DE

48-DF-1C (hex) Wuhan NEC Fibre
Optic Communications industry Co. Ltd
48DF1C (base 16) Wuhan NEC Fibre Optic Communications industry Co. Ltd
3rd Road Guanshan,
Wuhan Hubei 430074
CN

BC-71-C1 (hex) XTrillion, Inc.
BC71C1 (base 16) XTrillion, Inc.
1-12-3-4F
Chiyoda-ku Tokyo 101-0041
JP

E0-E8-E8 (hex) Olive Telecommunication Pvt. Ltd
E0E8E8 (base 16) Olive Telecommunication Pvt. Ltd
862, Udyog Vihar
Gurgaon Haryana 122016
IN

D4-9C-8E (hex) University of FUKUI
D49C8E (base 16) University of FUKUI
3-9-1 Bunkyo
Fukui City 910-8507
JP

60-DA-23 (hex) Estech Co.,Ltd
60DA23 (base 16) Estech Co.,Ltd
#717,133-1,Sangdaewon-Dong
Seongnam-Si Gyeonggi-Do 462-120
KR

44-DC-CB (hex) SEMINDIA SYSTEMS PVT LTD
44DCCB (base 16) SEMINDIA SYSTEMS PVT LTD
1006/13, Sy No.49/1&3, 7th Mile, A.M Indl Estate,
Bangalore Karnataka 560068
IN

5C-9A-D8 (hex) FUJITSU LIMITED
5C9AD8 (base 16) FUJITSU LIMITED
403,
Kosugi-cho 1-chome, Nakahara-ku
Kawasaki Kanagawa 211-0063
JP

A4-C0-E1 (hex) Nintendo Co., Ltd.
A4C0E1 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

4C-3B-74 (hex) VOGTEC(H.K.) Co., Ltd
4C3B74 (base 16) VOGTEC(H.K.) Co., Ltd
Flat 01, 2/F, On Ning Building,
Hong Kong 999077
CN

68-43-52 (hex) Bhuu Limited
684352 (base 16) Bhuu Limited
Office 1, 465 Mt Eden Road
Auckland 1023
NZ

F8-F0-14 (hex) RackWare Inc.
F8F014 (base 16) RackWare Inc.
44053 Fremont Blvd.
Fremont CA 94538
US

28-26-A6 (hex) PBR electronics GmbH
2826A6 (base 16) PBR electronics GmbH
Berliner Strasse 5
Sandhausen Baden Wuertemmberg 69207
DE

B4-28-F1 (hex) E-Prime Co., Ltd.
B428F1 (base 16) E-Prime Co., Ltd.
Rm1207, Kolon Science Valley, 811,
Seoul 152050
KR

AC-2F-A8 (hex) Humannix Co.,Ltd.
AC2FA8 (base 16) Humannix
Co.,Ltd.
#402, 98-4, Songpa-Dong, Songpa-Gu
Seoul 138-170
KR

A8-39-44 (hex) Actiontec Electronics, Inc
A83944 (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054

US

74-E0-6E (hex) Ergophone GmbH
74E06E (base 16) Ergophone GmbH
Temmlerstrasse 5
Marburg Hessen 35039
DE

EC-E9-0B (hex) SISTEMA SOLUCOES ELETRONICAS LTDA - EASYTECH
ECE90B (base 16) SISTEMA SOLUCOES ELETRONICAS LTDA - EASYTECH
RUA GUERRA DE AGUIAR, 220
São Paulo SP 08275-260
BR

A0-8C-9B (hex) Xtreme Technologies Corp
A08C9B (base 16) Xtreme Technologies Corp
200 4616 Valiant Dr NW
Calgary AB T3A0X9
CA

0C-F0-B4 (hex) Globalsat International Technology Ltd
0CF0B4 (base 16) Globalsat International Technology Ltd
17th floor,China Youse Building,No.6013 Shennan Avenue,Futian District,
Shenzhen Guangdong 518040
CN

60-52-D0 (hex) FACTS Engineering
6052D0 (base 16) FACTS
Engineering
8049 Photonics Drive
New Port Richey FL 34655
US

64-E8-E6 (hex) global moisture management system
64E8E6 (base 16) global moisture management system
11132 broad river road
irmo sc 29063
US

34-A1-83 (hex) AWare, Inc
34A183 (base 16) AWare, Inc
614 Massachusetts Ave.
Cambridge MA 02139
US

98-73-C4 (hex) Sage Electronic Engineering LLC
9873C4 (base 16) Sage Electronic Engineering LLC
201 Terry St.

Longmont CO 80501
US

B4-01-42 (hex) GCI Science & Technology Co.,LTD
B40142 (base 16) GCI Science & Technology Co.,LTD
No.381,xingangzhong road ,
GuangZhou GuangDong 510310
CN

74-0A-BC (hex) LightwaveRF Technology Ltd
740ABC (base 16) LightwaveRF Technology Ltd
Innovation Campus Birmingham
Faraday Wharf, Holt Street Birmingham B4 4BB
GB

30-4E-C3 (hex) Tianjin Techua Technology Co., Ltd.
304EC3 (base 16) Tianjin Techua Technology Co., Ltd.
12-1-1401
Tianlinyuan Fulicheng Gulouxi Road,Nankai District
Tianjin 300101
CN

B4-CF-DB (hex) Shenzhen Jiuzhou Electric Co.,LTD
B4CFDB (base 16) Shenzhen Jiuzhou Electric Co.,LTD
6F,Jiuzhou Electric Building,Southern No.12RD.,Hi-Tech Industrial Park,Nanshan District,
Shenzhen Guangdong 518057
CN

5C-6A-7D (hex) KENTKART EGE ELEKTRONIK SAN. VE TIC. LTD. STI.
5C6A7D (base 16) KENTKART EGE ELEKTRONIK SAN. VE TIC. LTD. STI.
1370 SK, NO:42/304,
MONTRO IZMIR 35230
TR

FC-D4-F2 (hex) The Coca Cola Company
FCD4F2 (base 16) The Coca Cola Company
One Coca Cola Plaza
Atlanta GA 30313
US

10-64-E2 (hex) ADFweb.com s.r.l.
1064E2 (base 16) ADFweb.com s.r.l.
Strada Nuova, 17
Mareno di Piave Treviso 31010
IT

CC-34-D7 (hex) GEWISS S.P.A.
CC34D7 (base 16) GEWISS S.P.A.

VIA ALESSANDRO VOLTA 1
CENATE SOTTO 24069
IT

F0-2A-61 (hex) Waldo Networks, Inc.
F02A61 (base 16) Waldo
Networks, Inc.
4505 Spicewood Springs Rd
Austin Texas 78759
US

C8-A7-0A (hex) Verizon Business
C8A70A (base 16) Verizon Business
One Digex Plaza
Beltsville MD 20705
US

C0-12-42 (hex) Alpha Security Products
C01242 (base 16) Alpha Security Products
10715 Sikes Place, Ste. 200
Charlotte NC 28277
US

BC-20-BA (hex) Inspur (Shandong) Electronic Information Co., Ltd
BC20BA (base 16) Inspur (Shandong) Electronic Information Co., Ltd
No.1036 Shunya Rd.
Jinan Shandong 250101
CN

1C-FE-A7 (hex) IDentytech Solutins Ltd.
1CFEA7 (base 16) IDentytech Solutins Ltd.
14 Hadaya Street
Ramat- Hasharon 47226
IL

AC-81-12 (hex) Gemtek Technology Co., Ltd.
AC8112 (base 16) Gemtek Technology Co., Ltd.
No. 1 Jen Ai Road Hsinchu Industrial Park Hukou, Hsinchu 30352 TAIWAN, REPUBLIC OF CHINA
Hsinchu TAIWAN 30352
TW

68-63-59 (hex) Advanced Digital Broadcast SA
686359 (base 16) Advanced
Digital Broadcast SA
Avenue de Tournay 7
Pregny-Chambesy 1292
CH

CC-D8-11 (hex) Aiconn Technology Corporation
CCD811 (base 16) Aiconn Technology Corporation
5F, NO. 9, Alley 2, Lane 35, Ji-Hu Rd., Nei-Hu,
Taipei City 11494
TW

44-59-9F (hex) Criticare Systems, Inc
44599F (base 16) Criticare Systems, Inc
20925 Crossroads Circle
Waukasha WI 53186
US

3C-2F-3A (hex) SFORZATO Corp.
3C2F3A (base 16) SFORZATO Corp.
863
HINO-SHI TOKYO 191-0022
JP

18-92-2C (hex) Virtual Instruments
18922C (base 16) Virtual Instruments
100 Enterprise Way
Scotts Valley CA 95066
US

28-06-1E (hex) NINGBO GLOBAL USEFUL ELECTRIC CO.,LTD
28061E (base 16) NINGBO GLOBAL USEFUL ELECTRIC CO.,LTD
No.88,Kechuang South Road,
Ningbo Zhejiang 315000
CN

A0-DE-05 (hex) JSC Irbis-T
A0DE05 (base 16) JSC Irbis-T
39, Gorodskoy lane
Tula 300012
RU

08-17-F4 (hex) IBM Corp
0817F4
(base 16) IBM Corp
2051 Mission College Blvd
Santa Clara CA 95054
US

74-CE-56 (hex) Packet Force Technology Limited Company
74CE56 (base 16) Packet Force Technology Limited Company
2F., No.25, Sec. 1, Shuangshi Rd., Central Dist.,
Taichung 40046
TW

EC-BB-AE (hex) Digivoice Tecnologia em Eletronica Ltda
ECBBAE (base 16) Digivoice Tecnologia em Eletronica Ltda
Alameda Juru, 159 - Torreo
Barueri São Paulo 06455-010
BR

C4-4B-44 (hex) Omniprint Inc.
C44B44 (base 16) Omniprint Inc.
1923 East Deere Ave.
Santa Ana CA 92705
US

F4-38-14 (hex) Shanghai Howell Electronic Co.,Ltd
F43814 (base 16) Shanghai Howell Electronic Co.,Ltd
5-5/F, Bldg.1, No.788 Fengzhen Rd.,
Shanghai 200434
CN

90-61-0C (hex) Fida International (S) Pte Ltd
90610C (base 16) Fida International (S) Pte Ltd
Blk 16, Kallang Place
339156
SG

3C-5F-01 (hex) Synerchip Co., Ltd.
3C5F01
(base 16) Synerchip Co., Ltd.
c/o Synerchip USA Corp.
Sunnyvale CA 94085
US

10-A1-3B (hex) FUJIKURA RUBBER LTD.
10A13B (base 16) FUJIKURA RUBBER LTD.
1-840,Mihashi,Omiya
Saitama 330-0856
JP

F4-E1-42 (hex) Delta Elektronika BV
F4E142 (base 16) Delta Elektronika BV
Vissersdijk 4
Zierikzee 4301 ND
NL

E0-D1-0A (hex) Katoudenkikougyousyo co ltd
E0D10A (base 16) Katoudenkikougyousyo co ltd
oujihontyou1-4-13
kita-ku tokyo-to 114-0022

JP

48-C8-B6 (hex) SysTec GmbH
48C8B6 (base 16) SysTec GmbH
Ludwig-Erhard-Strasse 6
Bergheim-Glessen NRW 50129
DE

3C-62-78 (hex) SHENZHEN JETNET TECHNOLOGY CO.,LTD.
3C6278 (base 16) SHENZHEN JETNET TECHNOLOGY CO.,LTD.
Room 403,4th floor,Qinghua Information Building,Keyuan Road,North District of Tech-Park,Nanshan District
Shenzhen Guangdong 518057
CN

D4-3D-67 (hex) Carma Industries Inc.
D43D67 (base 16) Carma Industries
Inc.
132 Walsh Road
Lindsay Ontario K9V 4R3
CA

C8-D5-FE (hex) Shenzhen Zowee Technology Co., Ltd
C8D5FE (base 16) Shenzhen Zowee Technology Co., Ltd
Block 5, Science and Technology Industrial Park of
Shenzhen GuangDong 518055
CN

2C-30-68 (hex) Pantech Co.,Ltd
2C3068 (base 16) Pantech Co.,Ltd
110-1 Ongjeong-Ri, Tongjin-Eup
Gimpo-Si Gyounggi-Do 415-865
KR

00-BD-27 (hex) Exar Corp.
00BD27 (base 16) Exar Corp.
48720 Kato Rd.
Fremont CA 94538
US

5C-40-58 (hex) Jefferson Audio Video Systems, Inc.
5C4058 (base 16) Jefferson Audio Video Systems, Inc.
13020 Middletown Industrial Blvd.
Louisville Kentucky 40223
US

58-D0-8F (hex) IEEE 1904.1 Working Group
58D08F (base 16) IEEE 1904.1 Working Group
1351 Redwood Way,

Petaluma CA 94954
US

CC-09-C8 (hex) IMAQLIQ LTD
CC09C8 (base 16) IMAQLIQ LTD
Obvodny Canal 93A
St.Petersburg 191119
RU

9C-45-63
(hex) DIMEP Sistemas
9C4563 (base 16) DIMEP Sistemas
Av. Mofarrej, 840
São Paulo 05311000
BR

E4-46-BD (hex) C&C TECHNIC TAIWAN CO., LTD.
E446BD (base 16) C&C TECHNIC TAIWAN CO., LTD.
ROOM6 13F, NO.2,Jian 8th ROAD
Taipei Chungho City, 23511
TW

8C-DD-8D (hex) Wifly-City System Inc.
8CDD8D (base 16) Wifly-City System Inc.
4F.,-1,NO 106,RUEIGUANG Rd.Neihu District,
Taipei City 114
TW

20-A2-E7 (hex) Lee-Dickens Ltd
20A2E7 (base 16) Lee-Dickens Ltd
Rushton Rd
Kettering Northamptonshire NN14 2QW
GB

FC-ED-B9 (hex) Arrayent
FCEDB9 (base 16) Arrayent
570 El Camino Real #150-419
Redwood City CA 94063
US

44-ED-57 (hex) Longicorn, inc.
44ED57 (base 16) Longicorn, inc.
Rm1001-2, 10F, Byuksan Digital Valley1
Seoul 152-775
KR

EC-98-C1 (hex) Beijing Risbo Network Technology Co.,Ltd
EC98C1 (base 16) Beijing Risbo Network Technology Co.,Ltd

1/F Yinyan
Building 2A,No.23 Anningzhuangdonglu Haidian District
Beijing 100085
CN

D4-A9-28 (hex) GreenWave Reality Inc
D4A928 (base 16) GreenWave Reality Inc
39 Parker
Irvine California 92618
US

E0-62-90 (hex) Jinan Jovision Science & Technology Co., Ltd.
E06290 (base 16) Jinan Jovision Science & Technology Co., Ltd.
Room 407, Tower C, Cyber Port Building,
Jinan Shandong 250013
CN

10-0E-2B (hex) NEC CASIO Mobile Communications
100E2B (base 16) NEC CASIO Mobile Communications
1753,Shimonumabe
Kawasaki-shi Kanagawa 211-8666
JP

C4-63-54 (hex) U-Raku, Inc.
C46354 (base 16) U-Raku, Inc.
401-1 Deba
Ritto-shi Shiga 520-3041
JP

40-5F-BE (hex) RIM
405FBE (base 16) RIM
295 Phillip Street
Waterloo Ontario N2L 3W8
CA

58-DB-8D (hex) Fast Co., Ltd.
58DB8D (base 16) Fast Co., Ltd.
2-11-1 Iwamotocho
Chiyoda-ku Tokyo 101-0032
JP

38-A9-5F (hex) Actifio Inc
38A95F
(base 16) Actifio Inc
225 Wyman Street
Waltham MA 02451
IN

F4-DC-DA (hex) Zhuhai Jiahe Communication Technology Co., limited
F4DCDA (base 16) Zhuhai Jiahe Communication Technology Co., limited
4/F,East Of B5,Sourth Software Park,Tangjia,
Zhuhai Guangdong 519085
CN

E8-04-62 (hex) Cisco Systems, Inc
E80462 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

DC-D0-F7 (hex) Bentek Systems Ltd.
DCD0F7 (base 16) Bentek Systems Ltd.
315 - 3750 46th Ave. SE
Calgary AB T2B 0L1
CA

7C-B5-42 (hex) ACES Technology
7CB542 (base 16) ACES Technology
#928, Hyundai Venture Ville
Seoul 135-539
KR

90-54-46 (hex) TES ELECTRONIC SOLUTIONS
905446 (base 16) TES ELECTRONIC SOLUTIONS
Immeuble Odyssee
BRUZ 35170
FR

54-4A-05 (hex) wenglor sensoric gmbh
544A05 (base 16) wenglor sensoric gmbh
wenglor Str. 3
Tettnang 88069
DE

6C-9C-E9
(hex) Nimble Storage
6C9CE9 (base 16) Nimble Storage
2645 Zanker Road
San Jose CA 95134
US

A4-9B-13 (hex) Digital Check
A49B13 (base 16) Digital Check
630 Dundee Rd. Suite 210
Northbrook IL 60062
US

C8-EE-08 (hex) TANGTOP TECHNOLOGY CO.,LTD
C8EE08 (base 16) TANGTOP TECHNOLOGY CO.,LTD
1F,NO.153,Ligon St.,Beitou District
Taipei City 112
TW

70-E1-39 (hex) 3view Ltd
70E139 (base 16) 3view Ltd
168-172 Old Street
London EC1V 9BP
GB

18-42-2F (hex) Alcatel Lucent
18422F (base 16) Alcatel Lucent
Via Energy Park, 14
Vimercate MB 20871
IT

68-54-F5 (hex) enLighted Inc
6854F5 (base 16) enLighted Inc
1451 Grant Rd
Mountain View CA 94040
US

74-72-F2 (hex) Chipsip Technology Co., Ltd.
7472F2 (base 16) Chipsip Technology Co., Ltd.
8F-1, No.186, Jian-Yi Road, ChungHo City,
Taipei 235
TW

E0-A6-70 (hex) Nokia Corporation
E0A670 (base 16) Nokia
Corporation
Elektroniikkatie 10
Oulu 90570
FI

0C-D6-96 (hex) Amimon Ltd
0CD696 (base 16) Amimon Ltd
2 Maskit st
Herzlia 46733
IL

F4-DC-4D (hex) Beijing CCD Digital Technology Co., Ltd
F4DC4D (base 16) Beijing CCD Digital Technology Co., Ltd
107 Dongsi North Street, Dongcheng District,
Beijing 100007

CN

40-13-D9 (hex) Global ES
4013D9 (base 16) Global ES
Sinimäentie 8 b
Espoo 02631
FI

AC-4F-FC (hex) SVS-VISTEK GmbH
AC4FFC (base 16) SVS-VISTEK GmbH
Muehlbachstraße 20
Seefeld BY 82229
DE

B4-37-41 (hex) Consert, Inc.
B43741 (base 16) Consert, Inc.
4700 Falls of Neuse Rd.
Raleigh NC 27609
US

94-85-7A (hex) Evantage Industries Corp
94857A (base 16) Evantage Industries Corp
815 Bridge St. W.
Waterloo Ontario N2V 2M7
CA

24-AF-54 (hex) NEXGEN Mediatech Inc.
24AF54 (base 16) NEXGEN Mediatech Inc.
8F No. 150, Jianyi Rd.,

Chung Ho Taipei Hsien 235
TW

98-E1-65 (hex) Accutome
98E165 (base 16) Accutome
3222 Phoenixville Pike
Malvern PA 19355
US

78-57-12 (hex) Mobile Integration Workgroup
785712 (base 16) Mobile Integration Workgroup
4580 Klahanie DR SE STE 106
Issaquah WA 98029
US

38-0A-0A (hex) Sky-City Communication and Electronics Limited Company
380A0A (base 16) Sky-City Communication and Electronics Limited Company
1109, Building A, Kefa Industrial park, Huanguan south road, Guanlan,

Shenzhen Guangdong 518110
CN

DC-4E-DE (hex) SHINYEI TECHNOLOGY CO., LTD.
DC4EDE (base 16) SHINYEI TECHNOLOGY CO., LTD.
6-5-2, MINATOJIMA-MINAMIMACHI, CHUO-KU
KOBE HYOGO 650-0047
JP

F0-F8-42 (hex) KEEBOX, Inc.
F0F842 (base 16) KEEBOX, Inc.
10 Poppy Trail
Rolling Hills California 90274
US

40-83-DE (hex) Zebra Technologies Inc
4083DE (base 16) Zebra Technologies Inc
475 Half Day Road
Lincolnshire
IL 60069
US

88-97-DF (hex) Entrypass Corporation Sdn. Bhd.
8897DF (base 16) Entrypass Corporation Sdn. Bhd.
No.40, Jalan TPP 1/10,
Puchong Selangor Darul Ehsan 47100
MY

E0-87-B1 (hex) Nata-Info Ltd.
E087B1 (base 16) Nata-Info Ltd.
28, Prokhorova str.
Yoshkar-Ola Republic Mari-El 424007
RU

F0-AD-4E (hex) Globalscale Technologies, Inc.
F0AD4E (base 16) Globalscale Technologies, Inc.
5F, No. 2 Building, Minxing Industrial Park
Shenzhen Guangdong 518109
CN

08-FA-E0 (hex) Fohhn Audio AG
08FAE0 (base 16) Fohhn Audio AG
Hohes Gestade 3-7
Nuertingen BW 72622
DE

90-3D-5A (hex) Shenzhen Wision Technology Holding Limited
903D5A (base 16) Shenzhen Wision Technology Holding Limited

Room 26A, Jinrun Building, N0.6019, Shennan Rd., Futian District
Shenzhen Guangdong 518040
CN

44-7C-7F (hex) Innolight Technology Corporation
447C7F (base 16) Innolight Technology
Corporation
3 Results Way
Cupertino CA 95014
US

5C-86-4A (hex) Secret Labs LLC
5C864A (base 16) Secret Labs LLC
315 Bleecker St #308
New York NY 10014
US

D4-96-DF (hex) SUNGJIN C&T CO.,LTD
D496DF (base 16) SUNGJIN C&T CO.,LTD
Daeya
Sheung Gyeonggi 429-809
KR

58-B9-E1 (hex) Crystalfontz America, Inc.
58B9E1 (base 16) Crystalfontz America, Inc.
12412 E. Saltese Ave.
Spokane Valley WA 99216
US

20-D9-06 (hex) Iota, Inc.
20D906 (base 16) Iota, Inc.
2212 Queen Anne Ave. N., #348
Seattle WA 98109
US

F4-55-95 (hex) HENGBAO Corporation LTD.
F45595 (base 16) HENGBAO Corporation LTD.
8th Floor,Tower B,Xinsheng Mansion No.5 Financial Street,
Beijing 100140
CN

18-0C-77 (hex) Westinghouse Electric Company, LLC
180C77 (base 16) Westinghouse Electric Company, LLC
1000 Westinghouse Drive
Cranberry Township PA 16066
US

9C-4E-20 (hex) Cisco Systems,

Inc
9C4E20 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

1C-3A-4F (hex) AccuSpec Electronics, LLC
1C3A4F (base 16) AccuSpec Electronics, LLC
8140 Hawthorne Drive
Erie Pennsylvania 16509
US

7C-A2-9B (hex) D.SignT GmbH & Co. KG
7CA29B (base 16) D.SignT GmbH & Co. KG
Marktstraße 10
Kerken 47647
DE

A0-40-41 (hex) SAMWONFA Co.,Ltd.
A04041 (base 16) SAMWONFA Co.,Ltd.
470-5, Moonhyun2-Dong
Busan 608-042
KR

40-40-6B (hex) Icomera
40406B (base 16) Icomera
Odinsgatan 28
Gothenburg 411 03
SE

6C-22-AB (hex) Ainsworth Game Technology
6C22AB (base 16) Ainsworth Game Technology
10 Holker Street
Newington New South Wales 2127
AU

98-35-B8 (hex) Assembled Products Corporation
9835B8 (base 16) Assembled Products Corporation
115 E. Linden
Rogers Arkansas 72756
US

28-89-15 (hex) CashGuard Sverige AB
288915 (base
16) CashGuard Sverige AB
Finlandsgatan 16
Kista 16474
SE

68-CA-00 (hex) Octopus Systems Limited
68CA00 (base 16) Octopus Systems Limited
36/F, 148 Electric Road

HK

E0-58-9E (hex) Laerdal Medical
E0589E (base 16) Laerdal Medical
Tanke Svilandsgate 30
Stavanger 4002
NO

30-18-CF (hex) DEOS control systems GmbH
3018CF (base 16) DEOS control systems GmbH
Birkenallee 113
Rheine NRW 48432
DE

D8-75-33 (hex) Nokia Corporation
D87533 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

98-DC-D9 (hex) UNITEC Co., Ltd.
98DCD9 (base 16) UNITEC Co., Ltd.
1-2-1-Shinyokohama
Yokohama-shi Kanagawa 222-0033
JP

C0-CF-A3 (hex) Creative Electronics & Software, Inc.
C0CFA3 (base 16) Creative Electronics & Software, Inc.
650 Sundown Road
South Elgin IL 60177
US

60-89-B7 (hex) KAEL MÜHENDSLK ELEKTRONK TCARET SANAY LMTED RKET
6089B7
(base 16) KAEL MÜHENDSLK ELEKTRONK TCARET SANAY LMTED RKET
Atatürk Mah. 78 sokak ,No:10, Büyükalan Mevkii
Izmir Aegean 35175
TR

30-52-5A (hex) NST Co., LTD
30525A (base 16) NST Co., LTD
RM301,Daeryung Techno Town 2, 569-21
Seoul 153-771

KR

2C-A7-80 (hex) True Technologies Inc.
2CA780 (base 16) True Technologies Inc.
R476, AngelCity 1st,
Seongnam, Kyungki 463-862
KR

B0-E3-9D (hex) CAT SYSTEM CO.,LTD.
B0E39D (base 16) CAT SYSTEM CO.,LTD.
3-147-27 Higasi-sinmachi Hirohata-ku
Himeji Hyogo 671-1121
JP

7C-2E-0D (hex) Blackmagic Design
7C2E0D (base 16) Blackmagic Design
11 Gateway Court
Melbourne Victoria 3207
AU

5C-E2-86 (hex) Nortel Networks
5CE286 (base 16) Nortel Networks
CARRETERA BASE AEREA # 5850
Zapopan Jalisco 44130
MX

8C-64-0B (hex) Beyond Devices d.o.o.
8C640B (base 16) Beyond Devices d.o.o.
Trzaska cesta 515
Brezovica pri
Ljubljani SI-1351
SI

FC-E1-92 (hex) Sichuan Jinwangtong Electronic Science&Technology Co,.Ltd
FCE192 (base 16) Sichuan Jinwangtong Electronic Science&Technology Co,.Ltd
No.28,Xinchuang Rd.,West Gaoxin District
Chengdu Sichuan 611731
CN

94-9C-55 (hex) Alta Data Technologies
949C55 (base 16) Alta Data Technologies
4901 Rockaway Blvd, Building A
Rio Rancho NM 87124
US

D4-79-C3 (hex) Cameronet GmbH & Co. KG
D479C3 (base 16) Cameronet GmbH & Co. KG
Elberfelder Strasse 96

Remscheid NRW 42853
DE

0C-1D-C2 (hex) SeAH Networks
0C1DC2 (base 16) SeAH Networks
9F, IT Venture Tower East Wing 78 Garak-Dong,
Seoul Songpa-gu 138-950
KR

4C-5D-CD (hex) Oy Finnish Electric Vehicle Technologies Ltd
4C5DCD (base 16) Oy Finnish Electric Vehicle Technologies Ltd
Majavantie 10
TUUSULA FI-04320
FI

70-D5-7E (hex) Scalar Corporation
70D57E (base 16) Scalar Corporation
1F San-Ei
Bldg
Shinjuku-ku Tokyo 160-0023
JP

54-75-D0 (hex) Cisco Systems, Inc
5475D0 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

7C-6F-06 (hex) Caterpillar Trimble Control Technologies
7C6F06 (base 16) Caterpillar Trimble Control Technologies
5475 Kellenburger Rd.
Dayton OH 45424
US

70-D5-E7 (hex) Wellcore Corporation
70D5E7 (base 16) Wellcore Corporation
2870 Zanker Road
San Jose CA 95134
US

3C-F7-2A (hex) Nokia Corporation
3CF72A (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

54-5F-A9 (hex) Teracom Limited
545FA9 (base 16) Teracom Limited

B-84, Sector - 60,
Noida Uttar Pradesh 201 301
IN

40-8A-9A (hex) TITENG CO., Ltd.
408A9A (base 16) TITENG CO., Ltd.
7Fl. Shindo B/D 10 Garak-dong
Seoul 138-160
KR

F4-45-ED (hex) Portable Innovation Technology Ltd.
F445ED (base 16) Portable Innovation Technology
Ltd.
601-602, 6/F Park Building,
Kowloon
HK

6C-32-DE (hex) Indieon Technologies Pvt. Ltd.
6C32DE (base 16) Indieon Technologies Pvt. Ltd.
601, Alpha 2, Gigaspace IT Park
Pune Maharastra 411014
IN

60-12-83 (hex) TSB REAL TIME LOCATION SYSTEMS S.L.
601283 (base 16) TSB REAL TIME LOCATION SYSTEMS S.L.
Ronda Auguste y Louis Lumière 23, Nave 13
Parque Tecnológico de Valencia Paterna (Valencia) 46980
ES

54-7F-EE (hex) Cisco Systems, Inc
547FEE (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

AC-EA-6A (hex) GENIX INFOCOMM CO., LTD.
ACEA6A (base 16) GENIX INFOCOMM CO., LTD.
2F, Daebo Bldg. #1009-34
Seoul 153-829
KR

A8-F4-70 (hex) Fujian Newland Communication Science Technologies Co.,Ltd.
A8F470 (base 16) Fujian Newland Communication Science Technologies Co.,Ltd.
Newland Science & Technology Park No.1 Rujiang West Rd., Mawei,
Fuzhou Fujian 350015
CN

8C-73-6E

(hex) FUJITSU LIMITED
8C736E (base 16) FUJITSU LIMITED
403, Kosugi-cho 1-chome, Nakahara-ku
Kawasaki Kanagawa 211-0063
JP

E0-BC-43 (hex) C2 Microsystems, Inc.
E0BC43 (base 16) C2 Microsystems, Inc.
2833 Junction Avenue
San Jose California 95134
US

94-23-6E (hex) Shenzhen Junlan Electronic Ltd
94236E (base 16) Shenzhen Junlan Electronic Ltd
Block C,No.2 Industrial District, Fuyuan, Tangwei,Fuyong, Bao'an
Shenzhen Guangdong 518103
CN

10-E6-AE (hex) Source Technologies, LLC
10E6AE (base 16) Source Technologies, LLC
2910 Whitehall Park Drive
Charlotte NC 28273
US

2C-A8-35 (hex) RIM
2CA835 (base 16) RIM
295 Phillip Street
Waterloo Ontario N2L 3W8
CA

C4-1E-CE (hex) HMI Sources Ltd.
C41ECE (base 16) HMI Sources Ltd.
5 Floor, Suite 2, 233 Hsin Yi Road, Section 4
Taipei 10681
TW

14-A6-2C (hex) S.M. Dezac S.A.
14A62C (base 16) S.M.
Dezac S.A.
Vial Sant jordi S/N
Viladecavalls Barcelona 08232
ES

50-F0-03 (hex) Open Stack, Inc.
50F003 (base 16) Open Stack, Inc.
Advanced Research Center #411
Bun-Dang, Seong-Nam Gyung-Gi 463-816
KR

DC-49-C9 (hex) CASCO SIGNAL LTD
DC49C9 (base 16) CASCO SIGNAL LTD
No.489 Xizang Bei Road
Shanghai 200071
CN

70-D8-80 (hex) Upos System sp. z o.o.
70D880 (base 16) Upos System sp. z o.o.
Sienkiewicza 13
Knurow Slaskie 44-190
PL

A0-5D-C1 (hex) TMCT Co., LTD.
A05DC1 (base 16) TMCT Co., LTD.
5F-561, #19-11 SanChong Rd.
Taipei 115
TW

B8-64-91 (hex) CK Telecom Ltd
B86491 (base 16) CK Telecom Ltd
Keji Avenue,Heyuan Hi-tech Development Zone
Heyuan Guangdong Province 517000
CN

58-3C-C6 (hex) Omneality Ltd.
583CC6 (base 16) Omneality Ltd.
10B Glossop Road
South Croydon Surrey CR2 0PU
GB

B0-C8-AD (hex) People Power Company
B0C8AD (base
16) People Power Company
620 Lowell Ave
Palo Alto CA 94301
US

18-17-14 (hex) DAEWOOIS
181714 (base 16) DAEWOOIS
7F Namkwang Centlex Bldg. 440-4 Cheongcheon2-dong
Incheon Pupyeong-gu 82
KR

F0-EC-39 (hex) Essec
F0EC39 (base 16) Essec
Schoebroekstraat 48
Paal Limburg 3583

BE

04-FE-7F (hex) Cisco Systems, Inc
04FE7F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

EC-44-76 (hex) Cisco Systems, Inc
EC4476 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

48-71-19 (hex) SGB GROUP LTD.
487119 (base 16) SGB GROUP LTD.
13F,No.192,Sec.2,Chung Hsin Rd.,Hsin Tien City
Taipei 231
TW

68-1F-D8 (hex) Siemens Industry, Inc.
681FD8 (base 16) Siemens Industry, Inc.
10670 Treena Street
San Diego CA 92131
US

A8-99-5C (hex) aizo ag
A8995C (base 16) aizo ag
Brandstrasse 33
Schlieren 8952
CH

40-12-E4
(hex) Compass-EOS
4012E4 (base 16) Compass-EOS
7 Giborei Israel
Natanya 42504
IL

44-6C-24 (hex) Reallin Electronic Co.,Ltd
446C24 (base 16) Reallin Electronic Co.,Ltd
2/F, Building 3, No.202 Zhengzhong Rd, XiHu industry Park
Hang Zhou Zhe Jiang 310030
CN

20-46-F9 (hex) Advanced Network Devices (dba:AND)
2046F9 (base 16) Advanced Network Devices (dba:AND)
3820 Ventura Drive

Arlington Heights IL 60004
US

A4-B1-EE (hex) H. ZANDER GmbH & Co. KG
A4B1EE (base 16) H. ZANDER GmbH & Co. KG
Am Gut Wolf 15
Aachen 52070
DE

84-21-41 (hex) Shenzhen Ginwave Technologies Ltd.
842141 (base 16) Shenzhen Ginwave Technologies Ltd.
4/F,R2-A,High-Tech Industrial Park
Shenzhen Guangdong 518057
CN

A0-23-1B (hex) TeleComp R&D Corp.
A0231B (base 16) TeleComp R&D Corp.
102 SW Orange Blossom
Lake City Florida 32025
US

B8-A3-E0 (hex) BenRui Technology Co.,Ltd
B8A3E0
(base 16) BenRui Technology Co.,Ltd
No.3A room A Unit Hongsong Building
ShenZhen GuangDong 518000
CN

3C-F5-2C (hex) DSPECIALISTS GmbH
3CF52C (base 16) DSPECIALISTS GmbH
Helmholtzstr. 2-9 L
Berlin 10587
DE

6C-18-11 (hex) Decatur Electronics
6C1811 (base 16) Decatur Electronics
715 Bright Street
Decatur IL 62522
US

F8-E9-68 (hex) Egker Kft.
F8E968 (base 16) Egker Kft.
Szuglo u. 49.
Budapest 1145
HU

54-03-F5 (hex) EBN Technology Corp.
5403F5 (base 16) EBN Technology Corp.

10F, No.90, Sec. 1, Sintai 5th Rd.
Sijhih City Taipei County 22102
US

80-38-FD (hex) LeapFrog Enterprises, Inc.
8038FD (base 16) LeapFrog Enterprises, Inc.
6401 Holis Street
Emeryville CA 94608
US

AC-BE-B6 (hex) Visualedge Technology Co., Ltd.
ACBEB6 (base 16) Visualedge Technology Co., Ltd.
13FL.-1 No. 716, Zhongzheng Road, Zhonghe City,
Taipei County, 23511
TW

2C-91-27
(hex) Eintechno Corporation
2C9127 (base 16) Eintechno Corporation
3359-1, kako, Inami-cho
kako-gun hyogo 675-1105
JP

5C-14-37 (hex) Thyssenkrupp Aufzugswerke GmbH
5C1437 (base 16) Thyssenkrupp Aufzugswerke GmbH
Bernhaeuser Str.45
Neuhausen a.d.F 73765
DE

9C-55-B4 (hex) I.S.E. S.r.l.
9C55B4 (base 16) I.S.E. S.r.l.
Via della Canapiglia 5
Migliarino Pisano PISA 56010
IT

E4-75-1E (hex) Getinge Sterilization AB
E4751E (base 16) Getinge Sterilization AB
Box 69
Getinge 31044
SE

10-65-A3 (hex) Panamax LLC
1065A3 (base 16) Panamax LLC
5919 Sea Otter Place
Carlsbad CA 92010
US

40-01-C6 (hex) 3COM EUROPE LTD

4001C6 (base 16) 3COM EUROPE LTD
Peoplebuilding 2
Hemel Hempstead HERTS. HP2 4NW
GB

9C-5E-73 (hex) Calibre UK LTD
9C5E73 (base 16) Calibre UK LTD
Cornwall House
Bradford West Yorkshire BD8 7JS
GB

04-C0-5B (hex) Tigo
Energy
04C05B (base 16) Tigo Energy
170 Knowles Dr
Los Gatos CA 95032
US

AC-58-3B (hex) Human Assembler, Inc.
AC583B (base 16) Human Assembler, Inc.
2-1-11-6F
Shibuya-ku Tokyo 150-0002
JP

E8-E7-76 (hex) Shenzhen Kootion Technology Co., Ltd
E8E776 (base 16) Shenzhen Kootion Technology Co., Ltd
3/F, Building #4, XinJianXing Industrial Park
Shenzhen Guangdong Province 518108
CN

50-25-2B (hex) Nethra Imaging Incorporated
50252B (base 16) Nethra Imaging Incorporated
2855 Bowers Ave
Santa Clara CA 95051
US

F8-81-1A (hex) OVERKIZ
F8811A (base 16) OVERKIZ
EUROPA 3
Archamps 74160
FR

4C-63-EB (hex) Application Solutions (Electronics and Vision) Ltd
4C63EB (base 16) Application Solutions (Electronics and Vision) Ltd
Unit 2 York Road, Burgess Hill
England West Sussex, England, RH15 9TT RH15 9TT
GB

70-2F-97 (hex) Aava Mobile Oy
702F97 (base 16) Aava Mobile
Oy
Nahkatehtaankatu 2
Oulu 90100
FI

10-CA-81 (hex) PRECIA
10CA81 (base 16) PRECIA
Le ruissol VEYRAS
PRIVAS 07001
FR

38-63-F6 (hex) 3NOD MULTIMEDIA(SHENZHEN)CO.,LTD
3863F6 (base 16) 3NOD MULTIMEDIA(SHENZHEN)CO.,LTD
F6,Building11,Shenzhen Software Park
Shenzhen Guangdong 518057
CN

60-9F-9D (hex) CloudSwitch
609F9D (base 16) CloudSwitch
200 Wheeler Rd
Burlington MA 01803
US

CC-CC-4E (hex) Sun Fountainhead USA. Corp
CCCC4E (base 16) Sun Fountainhead USA. Corp
801 S. Garfiled AVE # 236
Los Angeles California 91801
US

68-85-40 (hex) IGI Mobile, Inc.
688540 (base 16) IGI Mobile, Inc.
4F Kyongnam Bldg.,
Seoul 135-080
KR

A0-9A-5A (hex) Time Domain
A09A5A (base 16) Time Domain
330 Wynn Drive
Huntsville AL 35805
US

64-A8-37 (hex) Juni Korea Co., Ltd
64A837 (base 16) Juni Korea Co., Ltd
E603 Bundang Techno-Park 151
Seongnam

Gyeonggi 463-760
KR

60-F1-3D (hex) JABLOCOM s.r.o.
60F13D (base 16) JABLOCOM s.r.o.
V Nivach 12
Jablonec nad Nisou 466 01
CZ

B8-94-D2 (hex) Retail Innovation HTT AB
B894D2 (base 16) Retail Innovation HTT AB
Sjöängsvägen 2
Sollentuna S-192 72
SE

F0-C2-4C (hex) Zhejiang FeiYue Digital Technology Co., Ltd
F0C24C (base 16) Zhejiang FeiYue Digital Technology Co., Ltd
Baoting Industrial Park, 531 Jiaogong Road
Hangzhou City Zhejiang Province 310012
CN

40-A6-A4 (hex) PassivSystems Ltd
40A6A4 (base 16) PassivSystems Ltd
Medway House
Newbury Berks RG14 2PZ
GB

94-BA-31 (hex) Visiontec da Amazônia Ltda.
94BA31 (base 16) Visiontec da Amazônia Ltda.
Rod. Geraldo Scavone, 2300 - Galpao 27
Jacareí SP 12305-490
BR

9C-5B-96 (hex) NMR Corporation
9C5B96 (base 16) NMR Corporation
3F Esprit Build.,1-3-6 Nishi-Nippori
Arakawa-Ku Tokyo 116-0013
JP

78-B8-1A
(hex) INTER SALES A/S
78B81A (base 16) INTER SALES A/S
Stavneagervej 22
Egaa 8250
DK

B0-E9-7E (hex) Advanced Micro Peripherals
B0E97E (base 16) Advanced Micro Peripherals

Unit 1 Harrier House
Witchford Cambridgeshire CB6 2HY
GB

48-34-3D (hex) IEP GmbH
48343D (base 16) IEP GmbH
Am Pferdemarkt 9c
Langenhagen Niedersachsen 30853
DE

D4-AA-FF (hex) MICRO WORLD
D4AAFF (base 16) MICRO WORLD
19370 VAN NESS AVE
TORRANCE CA 90501
US

94-2E-63 (hex) Finsécur
942E63 (base 16) Finsécur
52 rue Paul Lescop
Nanterre 92000
FR

AC-83-17 (hex) Shenzhen Furtunetel Communication Co., Ltd
AC8317 (base 16) Shenzhen Furtunetel Communication Co., Ltd
F19 building A zhongke plaza Nan yi street high-tech zone, Nanshan District,
Shenzhen Guangdong 518057
CN

AC-D1-80 (hex) Crexendo Business Solutions, Inc.
ACD180 (base 16) Crexendo Business Solutions, Inc.
10201
S. 5st St.
Phoenix AZ 85044
US

20-2C-B7 (hex) Kong Yue Electronics & Information Industry (Xinhui) Ltd.
202CB7 (base 16) Kong Yue Electronics & Information Industry (Xinhui) Ltd.
Kong Yue Industrial Park, 18 Kongyue Road, Jinguzhou
Jiangmen Guangdong 529141
CN

74-E5-37 (hex) RADSPIN
74E537 (base 16) RADSPIN
Songpa-gu Garak-dong 78
Seoul 138-950
KR

CC-00-80 (hex) BETTINI SRL

CC0080 (base 16) BETTINI SRL
VIA CESARE BATTISTI 22
CESANO MADERNO MILAN 20031
IT

64-4B-C3 (hex) Shanghai WOASiS Telecommunications Ltd., Co.
644BC3 (base 16) Shanghai WOASiS Telecommunications Ltd., Co.
15F, Software Building,
Shanghai 200233
CN

00-27-17 (hex) CE Digital(Zhenjiang)Co.,Ltd
002717 (base 16) CE Digital(Zhenjiang)Co.,Ltd
Wei 3 Road, Dingmao, Eco.Dev.Zone,
Zhenjiang 212009
CN

00-27-16 (hex) Adachi-Syokai Co., Ltd.
002716 (base 16) Adachi-Syokai Co., Ltd.
228-2 Hazama
Maki
Fukuchiyama-shi Kyoto 620-0913
JP

00-26-E1 (hex) Stanford University, OpenFlow Group
0026E1 (base 16) Stanford University, OpenFlow Group
353 Serra Mall
Stanford CA 94305-9030
US

00-26-DC (hex) Optical Systems Design
0026DC (base 16) Optical Systems Design
7/1 Vuko Place
Warriewood NSW 2102
AU

00-26-EC (hex) Legrand Home Systems, Inc
0026EC (base 16) Legrand Home Systems, Inc
301 Fulling Mill Rd
Middletown PA 17057
US

00-26-E9 (hex) SP Corp
0026E9 (base 16) SP Corp
Guro 3-dong ,Guro-gu
Seoul 152-780
KR

00-26-EB (hex) Advanced Spectrum Technology Co., Ltd.
0026EB (base 16) Advanced Spectrum Technology Co., Ltd.
1F., No.67 Jhongjheng Rd.
Sinjhuang Taiwan 242
TW

00-27-00 (hex) Shenzhen Siglent Technology Co., Ltd.
002700 (base 16) Shenzhen Siglent Technology Co., Ltd.
BUILDING A8,TANGLANG INDUSTRIAL ZONE,XILI,NANSHAN
Shenzhen Guangdong
518000
CN

00-26-7F (hex) Oregan Networks Ltd.
00267F (base 16) Oregan Networks Ltd.
Diskettgatan 11B
Linköping 58335
SE

00-26-7D (hex) A-Max Technology Macao Commercial Offshore Company Limited
00267D (base 16) A-Max Technology Macao Commercial Offshore Company Limited
Avenida Da Praia Grande No. 409
Macau
CN

00-26-7C (hex) Metz-Werke GmbH & Co KG
00267C (base 16) Metz-Werke GmbH & Co KG
Ohmstrasse 55
Zirndorf 90513
DE

00-26-74 (hex) Hunter Douglas
002674 (base 16) Hunter Douglas
One Duette Way
Broomfield CO 80020
US

00-26-73 (hex) RICOH COMPANY,LTD.
002673 (base 16) RICOH COMPANY,LTD.
810 Shimoimaizumi
Ebina-City Kanagawa-Pref 243-0460
JP

00-26-6D (hex) MobileAccess Networks
00266D (base 16) MobileAccess Networks
8391 Old Courthouse Rd.
Vienna VA 22182
US

00-26-61 (hex) Irumtek Co., Ltd.
002661 (base 16) Irumtek Co., Ltd.
Apt 708
513-22 Joongil Eines Platz
Seongnam-City Gyunggi-do 462-120
KR

00-26-5B (hex) Hitron Technologies. Inc
00265B (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

00-26-56 (hex) Sansonic Electronics USA
002656 (base 16) Sansonic Electronics USA
9950 Baldwin Place
El Monte Cailfornia 91731
US

00-26-58 (hex) T-Platforms (Cyprus) Limited
002658 (base 16) T-Platforms (Cyprus) Limited
Themistokli Dervi 3, Julia House
Nicosia P.C.-1066
CY

00-26-6F (hex) Coordiwise Technology Corp.
00266F (base 16) Coordiwise Technology Corp.
2F., No.123, Sec. 1, Lioujia 5th Rd.
Jhubei City, Hsinchu County 30272
TW

00-26-6E (hex) Nissho-denki Co.,LTD.
00266E (base 16) Nissho-denki Co.,LTD.
3-7-6,chidori
ohta Tokyo 146-0083
JP

00-26-63 (hex) Shenzhen Huitaiwei Tech. Ltd, co.
002663 (base 16) Shenzhen
Huitaiwei Tech. Ltd, co.
JianDa Building,501-502
Shenzhen Guangdong 518000
CN

00-26-C3 (hex) Insightek Corp.
0026C3 (base 16) Insightek Corp.
5F,NO.755,Chung Cheng Rd.,

Chung Ho City Taipei Hsien 235
TW

00-26-C1 (hex) ARTRAY CO., LTD.
0026C1 (base 16) ARTRAY CO., LTD.
5F Ueno Bldg, 1-17-5 Kouenjikita,
Tokyo 166-0002
JP

00-26-BE (hex) Schoonderbeek Elektronica Systemen B.V.
0026BE (base 16) Schoonderbeek Elektronica Systemen B.V.
Roggestraat 3-5
Nieuw Vennep Noord Holland 2153GC
NL

00-26-81 (hex) Interspiro AB
002681 (base 16) Interspiro AB
Box 2853
Täby 18728
SE

00-26-83 (hex) Ajoho Enterprise Co., Ltd.
002683 (base 16) Ajoho Enterprise Co., Ltd.
7F., No.101, Ruihu St.
Taipei 114
TW

00-26-8C (hex) StarLeaf Ltd.
00268C (base 16) StarLeaf Ltd.
Chaston House, Mill Court
Cambridge CB22 5LD
GB

00-26-8B (hex) Guangzhou Escene Computer
Technology Limited
00268B (base 16) Guangzhou Escene Computer Technology Limited
Room 209, No.54-56 Yuehe Building, Huacui Street, Tianhe Industrial Park
Guangzhou Guangdong Province 510065
CN

00-26-A1 (hex) Megger
0026A1 (base 16) Megger
4271 Bronze Way
Dallas Texas 75237
US

00-26-98 (hex) Cisco Systems, Inc
002698 (base 16) Cisco Systems, Inc

80 West Tasman Drive
San Jose CA 94568
US

00-26-9B (hex) SOKRAT Ltd.
00269B (base 16) SOKRAT Ltd.
Volkonskogo 2
Irkutsk 664007
RU

00-26-B5 (hex) ICOMM Tele Ltd
0026B5 (base 16) ICOMM Tele Ltd
304, Trendset Towers,
Hyderabad AP 500034
IN

00-26-D4 (hex) IRCA SpA
0026D4 (base 16) IRCA SpA
Viale Venezia 31 - C.P. 248
San Vendemiano (Treviso) Italy 31020
IT

00-26-4C (hex) Shanghai DigiVision Technology Co., Ltd.
00264C (base 16) Shanghai DigiVision Technology Co., Ltd.
No. 333 Guangji Rd.
Shanghai
200083
CN

00-26-46 (hex) SHENYANG TONGFANG MULTIMEDIA TECHNOLOGY COMPANY LIMITED
002646 (base 16) SHENYANG TONGFANG MULTIMEDIA TECHNOLOGY COMPANY LIMITED
No.10 Ping Nan East Road
Shenyang Liao Ning 110014
CN

00-26-44 (hex) Thomson Telecom Belgium
002644 (base 16) Thomson Telecom Belgium
Prins Boudewijnlaan 47
Edegem Antwerp B-2650
BE

00-26-3F (hex) LIOS Technology GmbH
00263F (base 16) LIOS Technology GmbH
Schanzenstraße 39
Köln Germany D-51063
DE

00-26-06 (hex) RAUMFELD GmbH

002606 (base 16) RAUMFELD GmbH
Reichenberger Str. 124
Berlin 10999
DE

00-26-07 (hex) Enabling Technology Pty Ltd
002607 (base 16) Enabling Technology Pty Ltd
23/44 Kings Park Road
West Perth Western Australia 6005
AU

00-26-02 (hex) SMART Temps LLC
002602 (base 16) SMART Temps LLC
435 PARK PL CIRCLE SUITE 100
Mishawaka IN 46545
US

00-26-05 (hex) CC Systems AB
002605
(base 16) CC Systems AB
Box 83
Alfta 822 22
SE

00-25-D4 (hex) General Dynamics Mission Systems
0025D4 (base 16) General Dynamics Mission Systems
150 Rustcraft Road
Dedham MA 02026
US

00-25-C2 (hex) RingBell Co.,Ltd.
0025C2 (base 16) RingBell Co.,Ltd.
10586 KingGeorge Hwy
Surrey B.C V3T 2X3
CA

00-26-3B (hex) Onbnetech
00263B (base 16) Onbnetech
506, Samsung IT Valley, 197-5
Guro-Gu Seoul 152-848
KR

00-26-34 (hex) Infineta Systems, Inc
002634 (base 16) Infineta Systems, Inc
2870 Zanker Rd
San Jose CA 95134
US

00-26-2F (hex) HAMAMATSU TOA ELECTRONICS
00262F (base 16) HAMAMATSU TOA ELECTRONICS
9162-1
HAMAMATSU SIZUOKA 431-2102
JP

00-25-FB (hex) Tunstall Healthcare A/S
0025FB (base 16) Tunstall Healthcare A/S
Stroemmen 6
Noerresundby 9400
DK

00-25-F4 (hex) KoCo Connector AG
0025F4 (base 16) KoCo Connector AG
Marienstraße
12
Berlin 10117
DE

00-25-EF (hex) I-TEC Co., Ltd.
0025EF (base 16) I-TEC Co., Ltd.
7/F,KAWARAMACHI KOYO BLDG.3-4-3,KAWARAMCHI,CHUO-KU,
OSAKA 541-0048
JP

00-26-31 (hex) COMMTACT LTD
002631 (base 16) COMMTACT LTD
Nahal Snir 10
Yazne 81101
IL

00-26-24 (hex) Thomson Inc.
002624 (base 16) Thomson Inc.
101 West 103rd Street
Indianapolis IN 46290
US

00-26-1A (hex) Femtocomm System Technology Corp.
00261A (base 16) Femtocomm System Technology Corp.
2F.-2,No.28, Taiyuan St.,
Jhubei City, Hsinchu Country, 30288
TW

00-25-E3 (hex) Hanshinit Inc.
0025E3 (base 16) Hanshinit Inc.
Dong-Won Bld 3F, 395-13, Gal-Ma 2, Seo-Gu
Daejeon 302-809
KR

00-25-9F (hex) TechnoDigital Technologies GmbH
00259F (base 16) TechnoDigital Technologies GmbH
Haesslerstraße 8
Erfurt Thuringia 99096
DE

00-25-9D (hex) Private
00259D (base 16) Private

00-25-98 (hex) Zhong
Shan City Litai Electronic Industrial Co. Ltd
002598 (base 16) Zhong Shan City Litai Electronic Industrial Co. Ltd
No.3 Industrial District, Wuguishan, Cheng gui Road
Zhong shan City Guang dong Province 528458
CN

00-25-99 (hex) Hedon e.d. B.V.
002599 (base 16) Hedon e.d. B.V.
Elektronicaweg 15
Delft Zuid Holland 2628 XG
NL

00-25-97 (hex) Kalki Communication Technologies
002597 (base 16) Kalki Communication Technologies
4th Floor, Survey. No. 17/1, Outer Ring Road
Opp. Prestige Cessna Park Bangalore 560 103
IN

00-25-6B (hex) ATENIX E.E. s.r.l.
00256B (base 16) ATENIX E.E. s.r.l.
Via Torricelli, 15/b
VERONA VR 37135
IT

00-25-6E (hex) Van Breda B.V.
00256E (base 16) Van Breda B.V.
Mercuriusweg 21
Brummen Gelderland 6971 GV
NL

00-25-65 (hex) Vizimax Inc.
002565 (base 16) Vizimax Inc.
2284, rue de la Province
Longueuil Québec J4G 1G1
CA

00-25-5E

(hex) Shanghai Dare Technologies Co.,Ltd.
00255E (base 16) Shanghai Dare Technologies Co.,Ltd.
22F,Info Tech Building, No.1555,Kongjiang Road,
Shanghai 200092
CN

00-25-5F (hex) SenTec AG
00255F (base 16) SenTec AG
Ringstrasse 39
Therwil 4106
CH

00-25-3B (hex) din Dietmar Nocker Facilitymanagement GmbH
00253B (base 16) din Dietmar Nocker Facilitymanagement GmbH
Kotzinastrasse 5
Linz Upper Austria 4030
AT

00-25-3D (hex) DRS Consolidated Controls
00253D (base 16) DRS Consolidated Controls
21 South Street
Danbury CT 06810-8147
US

00-25-35 (hex) Minimax GmbH & Co KG
002535 (base 16) Minimax GmbH & Co KG
Industriestrasse 10/12
Bad Oldesloe SH 23840
DE

00-25-92 (hex) Guangzhou Shirui Electronic Co., Ltd
002592 (base 16) Guangzhou Shirui Electronic Co., Ltd
301D, No.9, Caipin Road,
Guangzhou Guangdong 510663
CN

00-25-94 (hex) Eurodesign BG LTD
002594
(base 16) Eurodesign BG LTD
Business Park Sofia, Building 4, Floor 2
Sofia 1113
BG

00-25-8A (hex) Pole/Zero Corporation
00258A (base 16) Pole/Zero Corporation
5530 Union Centre Drive
West Chester OH 45069
US

00-25-84 (hex) Cisco Systems, Inc
002584 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-25-79 (hex) J & F Labs
002579 (base 16) J & F Labs
1214 W. Boston Post Road
Mamaroneck NY 10543
US

00-25-7F (hex) CallTechSolution Co.,Ltd
00257F (base 16) CallTechSolution Co.,Ltd
#123,Daewooprugio B/D,344-1, Seogyo-Dong,Mapo-gu
Seoul 121-837
KR

00-25-77 (hex) D-BOX Technologies
002577 (base 16) D-BOX Technologies
2172 de la Province
Longueuil Quebec J4G 1R7
CA

00-25-72 (hex) Nemo-Q International AB
002572 (base 16) Nemo-Q International AB
Box 210
Sollentuna 19123
SE

00-25-B4 (hex) Cisco Systems, Inc
0025B4
(base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-25-B2 (hex) MBDA Deutschland GmbH
0025B2 (base 16) MBDA Deutschland GmbH
Hagenauer Forst 27
Schrobenhausen Bavaria 86529
DE

00-25-A7 (hex) itron
0025A7 (base 16) itron
5390 Triangle Parkway
Norcross GA 30092

US

00-24-C2 (hex) Asumo Co.,Ltd.
0024C2 (base 16) Asumo Co.,Ltd.
Oya-Kita 1-3-1
EBINA-CITY KANAGAWA-PREF. 243-0419
JP

00-24-BF (hex) Carrier Culoz SA
0024BF (base 16) Carrier Culoz SA
30, Avenue Jean Falconnier
Culoz 01350
FR

00-24-C0 (hex) NTI COMODO INC
0024C0 (base 16) NTI COMODO INC
Rm#502, Kangyong Bldg, Sungnam-dong
Sungnam-si Kyunggi-do 462-827
KR

00-24-BB (hex) CENTRAL Corporation
0024BB (base 16) CENTRAL Corporation
NISSO 17 Bldg.7F 2-14-30
Yokohama Kanagawa 222-0033
JP

00-24-BC (hex) HuRob Co.,Ltd
0024BC (base 16) HuRob Co.,Ltd
2121,
Jeongwang-Dong
Siheung-Si Gyeonggi-Do 429-793
KR

00-24-B7 (hex) GridPoint, Inc.
0024B7 (base 16) GridPoint, Inc.
2801 Clarendon Blvd.
Arlington VA 22201
US

00-24-EA (hex) iris-GmbH infrared & intelligent sensors
0024EA (base 16) iris-GmbH infrared & intelligent sensors
Ostendstraße 1-14
Berlin 12459
DE

00-24-ED (hex) YT Elec. Co,.Ltd.
0024ED (base 16) YT Elec. Co,.Ltd.
Block B,2 Floor ,Bao Ying Industrial District,

Wu Lian Lu Shenzhen 518116
CN

00-24-EC (hex) United Information Technology Co.,Ltd.
0024EC (base 16) United Information Technology Co.,Ltd.
5/F,9th Building,Software Park,2nd Keji-zhong Road,High-Tech Industrial Park
Shenzhen Guangdong 518057
CN

00-24-E6 (hex) In Motion Technology Inc.
0024E6 (base 16) In Motion Technology Inc.
#350, 625 Agnes Street
New Westminster BC V3M 5Y4
CA

00-24-E7 (hex) Plaster Networks
0024E7 (base 16) Plaster Networks
935
Hamilton Avenue
Menlo Park CA 94025-1431
US

00-24-E4 (hex) Withings
0024E4 (base 16) Withings
2 rue Maurice Hartmann
Issy-les-Moulineaux 92130
FR

00-25-29 (hex) COMELIT GROUP S.P.A
002529 (base 16) COMELIT GROUP S.P.A
DON ARRIGONI N. 5
SAN LORENZO, ROVETTA BERGAMO 24020
IT

00-25-2A (hex) Chengdu GeeYa Technology Co.,LTD
00252A (base 16) Chengdu GeeYa Technology Co.,LTD
50 Shuxi Road,
Chengdu SiChuan 610091
CN

00-25-28 (hex) Daido Signal Co., Ltd.
002528 (base 16) Daido Signal Co., Ltd.
6-17-19
Minato-ku TOKYO 105-8650
JP

00-25-26 (hex) Genuine Technologies Co., Ltd.
002526 (base 16) Genuine Technologies Co., Ltd.

Klingelnberg Bldg.
Yokohama Kanagawa 222-0033
JP

00-24-DE (hex) GLOBAL Technology Inc.
0024DE (base 16) GLOBAL Technology Inc.
No.168,Shanshan Rd., Wangchun Industrial Park,
Ningbo 315176
CN

00-24-DB (hex) Alcohol
Monitoring Systems
0024DB (base 16) Alcohol Monitoring Systems
1241 W. Mineral Avenue
Littleton CO 80120
US

00-24-DD (hex) Centrak, Inc.
0024DD (base 16) Centrak, Inc.
207 Penns Trail
Newtown PA 18940
US

00-25-21 (hex) Logitek Electronic Systems, Inc.
002521 (base 16) Logitek Electronic Systems, Inc.
5622 Edgemoor Drive
Houston Texas 77081
US

00-25-1F (hex) ZYNUS VISION INC.
00251F (base 16) ZYNUS VISION INC.
1-1-7-1A
SAGAMIHARA KANAGAWA 229-0039
JP

00-25-1E (hex) ROTEL TECHNOLOGIES
00251E (base 16) ROTEL TECHNOLOGIES
CEVIZLIDERE 14.CD NO:2/19 BALGAT
ANKARA 06520
TR

00-25-19 (hex) Viaas Inc
002519 (base 16) Viaas Inc
3175 South Winchester Blvd
Campbell CA 95008
US

00-25-13 (hex) CXP DIGITAL BV

002513 (base 16) CXP DIGITAL BV
De Reulver 97A
Enschede 7544RT
NL

00-24-D5 (hex) Winward Industrial Limited
0024D5 (base 16) Winward
Industrial Limited
Rm.7, P Floor, Tower A,
HongKong 852
CN

00-25-03 (hex) IBM Corp
002503 (base 16) IBM Corp
2051 Mission College Blvd
Santa Clara CA 95054
US

00-25-04 (hex) Valiant Communications Limited
002504 (base 16) Valiant Communications Limited
71-1 Shivaji Marg
New Delhi Delhi 110015
IN

00-24-A7 (hex) Advanced Video Communications Inc.
0024A7 (base 16) Advanced Video Communications Inc.
633 W 5th Street
Los Angeles CA 90017
US

00-24-AB (hex) A7 Engineering, Inc.
0024AB (base 16) A7 Engineering, Inc.
12127 Kirkham Road Suite 101
Poway CA 92064
US

00-24-A4 (hex) Siklu Communication
0024A4 (base 16) Siklu Communication
7 Shoham St., , 3rd Floor
Petah Tikva 49517
IL

00-24-9A (hex) Beijing Zhongchuang Telecommunication Test Co., Ltd.
00249A (base 16) Beijing Zhongchuang Telecommunication Test Co., Ltd.
12-14,Block C,Beijing International
Building,#18,Zhong Guan Cun Nan Road,
Beijing 100081
CN

00-24-9E (hex) ADC-Elektronik GmbH
00249E (base 16) ADC-Elektronik GmbH
Östingstraße 13b
Hamm NRW D-59063
DE

00-24-5F (hex) Vine Telecom CO.,Ltd.
00245F (base 16) Vine Telecom CO.,Ltd.
191-4, 4F, Anyang-dong, Manan-gu
Anyang-si Gyeonggi-do 430-010
KR

00-24-55 (hex) MuLogic BV
002455 (base 16) MuLogic BV
Olivier van Noortstraat 4
Schiedam ZH 3124LA
NL

00-24-5A (hex) Nanjing Panda Electronics Company Limited
00245A (base 16) Nanjing Panda Electronics Company Limited
Zhongshan EastRoad 301,
NANJING JIANGSU 210016
CN

00-24-5B (hex) RAIDON TECHNOLOGY, INC.
00245B (base 16) RAIDON TECHNOLOGY, INC.
4F-8, NO.16, Lane 609, Sec.5, Chung-Hsin Rd.,
San-Chung City Taipei county, 24159
TW

00-24-59 (hex) ABB Automation products GmbH
002459 (base 16) ABB Automation products GmbH
Eppelheimer Strasse 82
Heidelberg
69123
DE

00-24-9F (hex) RIM Testing Services
00249F (base 16) RIM Testing Services
440 Phillip Street
Waterloo Ontario N2L 5R9
CA

00-24-88 (hex) Centre For Development Of Telematics
002488 (base 16) Centre For Development Of Telematics
B01, Electronic City, Phase 1
Bangalore Karnataka 560100

IN

00-24-8F (hex) DO-MONIX
00248F (base 16) DO-MONIX
#501, Koreana B/D
Seongnam-si Gyeonggi-do 82
KP

00-24-79 (hex) Optec Displays, Inc.
002479 (base 16) Optec Displays, Inc.
528 S. 6th Avenue
City of Industry California 91746
US

00-24-68 (hex) Sumavision Technologies Co.,Ltd
002468 (base 16) Sumavision Technologies Co.,Ltd
6F, Block A2, Power Creative Building,No.1 Shangdi East Road, Haidian District
Beijing 100085
CN

00-24-66 (hex) Unitron nv
002466 (base 16) Unitron nv
Franrkijklaan 27
Poperinge W-vl 8970
BE

00-24-AE (hex) IDEMIA
0024AE
(base 16) IDEMIA
18 chaussee Jules Cesar
OSNY 95520
FR

00-24-AD (hex) Adolf Thies Gmbh & Co. KG
0024AD (base 16) Adolf Thies Gmbh & Co. KG
Hauptstraße 76
Göttingen 37083
DE

00-24-3A (hex) Ludl Electronic Products
00243A (base 16) Ludl Electronic Products
171 Brady Ave
Hawthorne NY 10532
US

00-24-4E (hex) RadChips, Inc.
00244E (base 16) RadChips, Inc.
422 East Vermijo Ave.

Colorado Springs CO 80903
US

00-24-39 (hex) Digital Barriers Advanced Technologies
002439 (base 16) Digital Barriers Advanced Technologies
4th Floor
Glasgow Lanarkshire G1 2QQ
GB

00-24-34 (hex) Lectrosonics, Inc.
002434 (base 16) Lectrosonics, Inc.
581 Laser Rd.
Rio Rancho NM 87124
US

00-24-2F (hex) Micron
00242F (base 16) Micron
8000 S Federal Way
Boise ID 83716
US

00-24-0B (hex) Virtual Computer Inc.
00240B (base 16) Virtual Computer Inc.
3 LAN Drive
Westford
MA 01886
US

00-24-02 (hex) Op-Tection GmbH
002402 (base 16) Op-Tection GmbH
Borsigstraße 80
Heinsberg Germany 52525
DE

00-23-C1 (hex) Securitas Direct AB
0023C1 (base 16) Securitas Direct AB
Angbatsbron 1
Malmö 21120
SE

00-23-FC (hex) Ultra Stereo Labs, Inc
0023FC (base 16) Ultra Stereo Labs, Inc
181 Bonetti Drive
San Luis Obispo CA 93401
US

00-24-18 (hex) Nextwave Semiconductor
002418 (base 16) Nextwave Semiconductor

3610 Valley Centre Dr
San Diego CA 92130
US

00-24-12 (hex) Benign Technologies Co, Ltd.
002412 (base 16) Benign Technologies Co, Ltd.
504 room, 5F, South building, Forsafe Tower,
Shenzhen Guangdong 518057
CN

00-24-0D (hex) OnePath Networks LTD.
00240D (base 16) OnePath Networks LTD.
8 Hartom St
Jerusalem 91450
IL

00-23-DB (hex) saxnet gmbh
0023DB (base 16) saxnet gmbh
Willy-Brandt-Ring 1
Oelsnitz
Sachsen 08606
DE

00-23-C8 (hex) TEAM-R
0023C8 (base 16) TEAM-R
Gragdanski str.111, A, 9-N
St. Petersburg 195265
RU

00-23-EB (hex) Cisco Systems, Inc
0023EB (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-23-EC (hex) Algorithmix GmbH
0023EC (base 16) Algorithmix GmbH
Klettgaustrasse 21
Waldshut-Tiengen BW 79761
US

00-24-26 (hex) NOHMI BOSAI LTD.
002426 (base 16) NOHMI BOSAI LTD.
7-3,Kudan-Minami 4-Chome,
Tokyo 102-8277
JP

00-24-29 (hex) MK MASTER INC.

002429 (base 16) MK MASTER INC.
6F, -1, NO. 110,SEC. 3, JHONGSHAN RD.,
JHONG-HE CITY, TAIPEI COUNTY 235
TW

00-23-8D (hex) Techno Design Co., Ltd.
00238D (base 16) Techno Design Co., Ltd.
312-2
Aso-gun Kumamoto-ken 861-2401
JP

00-23-87 (hex) ThinkFlood, Inc.
002387 (base 16) ThinkFlood, Inc.
138 Claflin St
Belmont MA 02478
US

00-23-84 (hex) GGH
Engineering s.r.l.
002384 (base 16) GGH Engineering s.r.l.
Via Agucchi 84/2
Bologna 40133
IT

00-23-6F (hex) DAQ System
00236F (base 16) DAQ System
Rm 913, SungNam Woolim Lions VAlley I, 311-3
Sungnam-Si Kyunggi-Do, 462-806
KR

00-23-69 (hex) Cisco-Linksys, LLC
002369 (base 16) Cisco-Linksys, LLC
121 Theory Drive
Irvine California 92612
US

00-23-AA (hex) HFR, Inc.
0023AA (base 16) HFR, Inc.
5F, Hana EZ Tower
Sungnam-si Kyunggi-do 463-870
KR

00-23-A5 (hex) SageTV, LLC
0023A5 (base 16) SageTV, LLC
9800 S. La Cienega Blvd
Inglewood CA 90301
US

00-23-9E (hex) Jiangsu Lemote Technology Corporation Limited
00239E (base 16) Jiangsu Lemote Technology Corporation Limited
Menglan Industrial Park,Yushan
Changshu Jiangsu 215500
CN

00-23-30 (hex) DIZIPIA, INC.
002330 (base 16) DIZIPIA, INC.
15th Floor, East Wing, IT Venture Tower
Seoul 138160
KR

00-23-2D
(hex) SandForce
00232D (base 16) SandForce
12950 Saratoga Ave.
Saratoga California 95070-4658
US

00-23-91 (hex) Maxian
002391 (base 16) Maxian
21th Fl. KINS tower, 25-1
Seongnam-city Gyeonggi-do 463-847
KR

00-23-92 (hex) Proteus Industries Inc.
002392 (base 16) Proteus Industries Inc.
340 Pioneer Way
Mountain View CA 94041
US

00-23-93 (hex) AJINEXTEK
002393 (base 16) AJINEXTEK
9-3, Holimdong, Dalseogu
Daegu 704-240
KR

00-23-7F (hex) PLANTRONICS, INC.
00237F (base 16) PLANTRONICS, INC.
345 ENCINAL STREET
SANTA CRUZ CA 95060
US

00-23-BB (hex) Accretech SBS, Inc.
0023BB (base 16) Accretech SBS, Inc.
2451 NW 28th Ave.
Portland OR 97210
US

00-22-95 (hex) SGM Technology for lighting spa
002295 (base 16) SGM Technology for lighting spa
Via Pio La Torre 1
Tavullia PU 61010
IT

00-22-87 (hex) Titan Wireless LLC
002287
(base 16) Titan Wireless LLC
3914 Gattis School Rd
Round Rock Texas 78664
US

00-22-88 (hex) Sagrad, Inc.
002288 (base 16) Sagrad, Inc.
751 North Drive
Melbourne FL 32934
US

00-23-23 (hex) Zylin AS
002323 (base 16) Zylin AS
Auglendsdalen 78
Stavanger 4017
NO

00-22-F8 (hex) PIMA Electronic Systems Ltd.
0022F8 (base 16) PIMA Electronic Systems Ltd.
5 Hatzoref St.
Holon 58856
IL

00-23-1C (hex) Fourier Systems Ltd.
00231C (base 16) Fourier Systems Ltd.
16 Hamelacha St
Rosh Haayin 48091
IL

00-23-1D (hex) Deltacom Electronics Ltd
00231D (base 16) Deltacom Electronics Ltd
2F,ZIT,7km Tzarigradsko Shose
Sofia Sofia-grad 1784
BG

00-22-D0 (hex) Polar Electro Oy
0022D0 (base 16) Polar Electro Oy
Professorintie 5
Kempele Oulu 90440

FI

00-22-C3 (hex) Zeeport Technology Inc.
0022C3 (base 16) Zeeport Technology Inc.
1F,No231,Xianzheng
2nd Rd.
HsinChu Taiwan 300
TW

00-23-16 (hex) KISAN ELECTRONICS CO
002316 (base 16) KISAN ELECTRONICS CO
317-15
SEOUNG-DONG GU SEOUL 133-123
KR

00-23-0F (hex) Hirsch Electronics Corporation
00230F (base 16) Hirsch Electronics Corporation
1900 Carnegie, Bldg. B
Santa Ana CA 92705
US

00-23-0A (hex) ARBURG GmbH & Co KG
00230A (base 16) ARBURG GmbH & Co KG
Arthur Hehl Straße
Lossburg D-72290
DE

00-22-DE (hex) OPPO Digital, Inc.
0022DE (base 16) OPPO Digital, Inc.
2629B Terminal Blvd
Mountain View CA 94043
US

00-22-D7 (hex) Nintendo Co., Ltd.
0022D7 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-22-D6 (hex) Cypak AB
0022D6 (base 16) Cypak AB
P.O. BOX 2332
Stockholm 103 18
SE

00-22-A2 (hex) Xtramus Technologies
0022A2 (base 16) Xtramus Technologies
5th Fl., No. 102, Lide St.,

Zhonghe
City Taipei County 235
TW

00-22-9E (hex) Social Aid Research Co., Ltd.
00229E (base 16) Social Aid Research Co., Ltd.
South 3, West 10, Chuo-ku
Sapporo Hokkaido 060-0063
JP

00-22-F1 (hex) Private
0022F1 (base 16) Private

00-22-40 (hex) Universal Telecom S/A
002240 (base 16) Universal Telecom S/A
Avenida Paulista, 2444 - 17 andar
São Paulo 01310-300
BR

00-22-42 (hex) Alacron Inc.
002242 (base 16) Alacron Inc.
71 Spit Brook Rd.
Nashua NH 03060
US

00-22-21 (hex) ITOH DENKI CO,LTD.
002221 (base 16) ITOH DENKI CO,LTD.
1146-2, Asazuma-cho
Kasai Hyogo 679-0180
JP

00-22-26 (hex) Avaak, Inc.
002226 (base 16) Avaak, Inc.
9645 Scranton Rd., Suitie 110
San Diego CA 92121
US

00-22-1D (hex) Freegene Technology LTD
00221D (base 16) Freegene Technology LTD
3/F ,C BLDG,Weipengda Industrial Park
Shenzhen Gongdong 518109
CN

00-22-24 (hex) Good
Will Instrument Co., Ltd.
002224 (base 16) Good Will Instrument Co., Ltd.
No. 7-1 Jhongsing Road,
Taipei 236

TW

00-22-85 (hex) NOMUS COMM SYSTEMS
002285 (base 16) NOMUS COMM SYSTEMS
601, Gunjan Tower,
Baroda Gujarat 390023
IN

00-22-81 (hex) Daintree Networks Pty
002281 (base 16) Daintree Networks Pty
1 Dalmore Drive
Scoresby Victoria 3179
AU

00-22-73 (hex) Techway
002273 (base 16) Techway
Rm 1002, Daehyun Techno World Bd,
Uiwang-Si, Kyungki-Do 437-820
KR

00-22-34 (hex) Corventis Inc.
002234 (base 16) Corventis Inc.
1410 Energy Park Dr. Suite #1
St. Paul Minnesota 55108
US

00-22-32 (hex) Design Design Technology Ltd
002232 (base 16) Design Design Technology Ltd
Unit 9, Ash Road South
Wrexham North Wales LL13 9UG
GB

00-22-2B (hex) Nucomm, Inc.
00222B (base 16) Nucomm, Inc.
101 Bilby Road
Hackettstown NJ 07840
US

00-22-4E (hex) SEEnergy
Corp.
00224E (base 16) SEEnergy Corp.
4F, No.61, Dongsing RD.
Taipei 110
TW

00-22-45 (hex) Leine & Linde AB
002245 (base 16) Leine & Linde AB
Box 8

Strängnäs Södermanland SE-645 21
SE

00-22-49 (hex) HOME MULTIENERGY SL
002249 (base 16) HOME MULTIENERGY SL
Capitán HAYA 1
MADRID 28020
ES

00-22-0F (hex) MoCA (Multimedia over Coax Alliance)
00220F (base 16) MoCA (Multimedia over Coax Alliance)
90 Inverness Circle East
Englewood CA 94583
US

00-22-0A (hex) OnLive, Inc
00220A (base 16) OnLive, Inc
1091 N Shoreline Blvd
Mountainview California 94043
US

00-22-6B (hex) Cisco-Linksys, LLC
00226B (base 16) Cisco-Linksys, LLC
121 Theory Drive
Irvine California 92612
US

00-22-67 (hex) Nortel Networks
002267 (base 16) Nortel Networks
2221 Lakeside Blvd
Richardson TX 75081
US

00-22-5A (hex) Garde Security AB
00225A (base 16) Garde
Security AB
Box 78
Soderhamn S-826 22
SE

00-22-55 (hex) Cisco Systems, Inc
002255 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-22-1B (hex) Morega Systems
00221B (base 16) Morega Systems

5770 Hurontario Street
Mississauga Ontario L5R 3G5
CA

00-21-87 (hex) Imacs GmbH
002187 (base 16) Imacs GmbH
Mittelfeldstrasse 25
Kornwestheim Germany D-70806
DE

00-21-81 (hex) Si2 Microsystems Limited
002181 (base 16) Si2 Microsystems Limited
No 84, Sy No 150, EPIP, Whitefield Industrial Area
Bangalore Karnataka 560066
IN

00-21-7E (hex) Telit Communication s.p.a
00217E (base 16) Telit Communication s.p.a
Via stazione di prosecco 5B
SGONICO Trieste 34010
IT

00-21-F7 (hex) HPN Supply Chain
0021F7 (base 16) HPN Supply Chain
8000 Foothills Blvd
Roseville CA 95747
US

00-21-F4 (hex) INRange Systems, Inc
0021F4 (base 16) INRange
Systems, Inc
3316 5th Avenue, Suite 100
Altoona PA 16602
US

00-21-F5 (hex) Western Engravers Supply, Inc.
0021F5 (base 16) Western Engravers Supply, Inc.
17621 N Black Canyon Highway
Phoenix AZ 85023
US

00-21-AC (hex) Infrared Integrated Systems Ltd
0021AC (base 16) Infrared Integrated Systems Ltd
Park Circle, Tithe Barn Way
Northampton Northants NN4 9BG
GB

00-21-A2 (hex) EKE-Electronics Ltd.

0021A2 (base 16) EKE-Electronics Ltd.
Piispanportti 7
ESPOO 02240
FI

00-21-E4 (hex) I-WIN
0021E4 (base 16) I-WIN
27 Rue des Econdeaux
EPINAY SUR SEINE Seine Saint Denis 93800
FR

00-21-E5 (hex) Display Solution AG
0021E5 (base 16) Display Solution AG
Talhofstraße 32a
Gilching D 82205
DE

00-21-E2 (hex) visago Systems & Controls GmbH & Co. KG
0021E2 (base 16) visago Systems & Controls GmbH & Co. KG
Neuwiesenstraße 20
Weilheim an der Teck D-73235
DE

00-21-DD
(hex) Northstar Systems Corp
0021DD (base 16) Northstar Systems Corp
5F, No.200 Gang Qian Rd
Taipei 114
TW

00-21-8E (hex) MEKICS CO., LTD.
00218E (base 16) MEKICS CO., LTD.
Industrial Zone 861-10, Taegye-Dong
Chunchon Kangwon 200-944
KR

00-21-8F (hex) Avantgarde Acoustic Lautsprechersysteme GmbH
00218F (base 16) Avantgarde Acoustic Lautsprechersysteme GmbH
Nibelungenstraße 349
Lautertal - Reichenbach Hessen D-64686
DE

00-22-03 (hex) Glensound Electronics Ltd
002203 (base 16) Glensound Electronics Ltd
1 - 6 Brooks Place
Maidstone Kent ME17 1UN
GB

00-22-04 (hex) KORATEK
002204 (base 16) KORATEK
Geumjeong-dong
Gunpo-si Gyeonggi-do 435-825
KR

00-21-FF (hex) Cyfrowy Polsat SA
0021FF (base 16) Cyfrowy Polsat SA
ubinowa
Warsaw Mazowieckie 03-878
PL

00-21-C9 (hex) Wavecom Asia Pacific Limited
0021C9 (base 16) Wavecom Asia Pacific
Limited
201 Bio-Informatics Centre, No.2 Science Park West Ave

HK

00-21-C2 (hex) GL Communications Inc
0021C2 (base 16) GL Communications Inc
818 West Diamond Ave
Gaithersburg MD 20878
US

00-21-B2 (hex) Fiberblaze A/S
0021B2 (base 16) Fiberblaze A/S
Kildevangsvej 9
Roskilde 4000
DK

00-21-D5 (hex) X2E GmbH
0021D5 (base 16) X2E GmbH
Raiffeisenstrasse 9
Winden Rheinland-Pfalz 76872
DE

00-21-4A (hex) Pixel Velocity, Inc
00214A (base 16) Pixel Velocity, Inc
3917 Research Park Dr.
Ann Arbor MI 48108
US

00-21-46 (hex) Sanmina-SCI
002146 (base 16) Sanmina-SCI
13000 South Memorial Parkway
Huntsville AL 35803
US

00-21-42 (hex) Advanced Control Systems doo
002142 (base 16) Advanced Control Systems doo
Bulevar Zorana Djindjica 8a
Belgrade Serbia 11070
YU

00-21-6E (hex) Function ATI (Huizhou) Telecommunications Co., Ltd.
00216E (base
16) Function ATI (Huizhou) Telecommunications Co., Ltd.
No. 8, Huitai Road, Huitai Industrial Zone
Huizhou City Guangdong Province 516006
CN

00-21-1F (hex) SHINSUNG DELTATECH CO.,LTD.
00211F (base 16) SHINSUNG DELTATECH CO.,LTD.
44-10
CHANGWON-CITY KYUNGNAM-DO 641-290
KR

00-21-24 (hex) Optos Plc
002124 (base 16) Optos Plc
Queensferry House
Dunfermline Fife KY11 8GR
GB

00-21-17 (hex) Tellord
002117 (base 16) Tellord
Gurogu Gurodong 170-5 Woolim e-Biz Center 709
Seoul 152-050
KR

00-21-01 (hex) Aplicaciones Electronicas Quasar (AEQ)
002101 (base 16) Aplicaciones Electronicas Quasar (AEQ)
C/Rey Pastor 40
Leganes Madrid 28914
ES

00-21-03 (hex) GHI Electronics, LLC
002103 (base 16) GHI Electronics, LLC
35555 Garfield Rd.
Clinton Township MI 48035
US

00-1F-F8 (hex) Siemens AG, Sector Industry, Drive Technologies, Motion Control Systems
001FF8 (base 16) Siemens
AG, Sector Industry, Drive Technologies, Motion Control Systems
Frauenauracherstraße 80

Erlangen Bavaria 91056
DE

00-21-30 (hex) Keico Hightech Inc.
002130 (base 16) Keico Hightech Inc.
Ace twin tower I, 12th Fl.
Seoul 152-050
KR

00-21-33 (hex) Building B, Inc
002133 (base 16) Building B, Inc
1000 NW 65th Street, Suite 300
Ft. Lauderdale FL 33309
US

00-21-34 (hex) Brandywine Communications
002134 (base 16) Brandywine Communications
1153 Warner Ave
Tustin CA 92780
US

00-21-6D (hex) Soltech Co., Ltd.
00216D (base 16) Soltech Co., Ltd.
#30-3,3F
Yongsan Ku Seoul 140837
KR

00-21-65 (hex) Presstek Inc.
002165 (base 16) Presstek Inc.
55 Executive Drive
Hudson New Hampshire 03051
US

00-21-3A (hex) Winchester Systems Inc.
00213A (base 16) Winchester Systems Inc.
101 Billerica Avenue
Billerica, MA 01862
US

00-21-2E (hex) dresden-elektronik
00212E
(base 16) dresden-elektronik
Enno-Heidebroek-Str. 12
Dresden Saxony D-01237
DE

00-21-0F (hex) Cernium Corp
00210F (base 16) Cernium Corp

1943 Isaac Newton Sq
Reston VA 20190
US

00-21-5B (hex) SenseAnywhere
00215B (base 16) SenseAnywhere
Lisztlaan 2
Roosendaal 4702 KJ
NL

00-21-4E (hex) GS Yuasa Power Supply Ltd.
00214E (base 16) GS Yuasa Power Supply Ltd.
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Kyoto 601-8520
JP

00-1F-90 (hex) Actiontec Electronics, Inc
001F90 (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

00-1F-91 (hex) DBS Lodging Technologies, LLC
001F91 (base 16) DBS Lodging Technologies, LLC
21196 Limber
Mission Viejo CA 92692
US

00-1F-98 (hex) DAIICHI-DENTSU LTD.
001F98 (base 16) DAIICHI-DENTSU LTD.
OOMORI 690-1
KANI GIFU 509-0238
JP

00-1F-93 (hex) Xiotech Corporation
001F93
(base 16) Xiotech Corporation
6455 Flying Cloud Drive
Eden Prairie MN 55344
US

00-1F-D1 (hex) OPTEX CO.,LTD.
001FD1 (base 16) OPTEX CO.,LTD.
5-8-12
Otsu Shiga 520-0101
JP

00-1F-C9 (hex) Cisco Systems, Inc

001FC9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1F-FA (hex) Coretree, Co, Ltd
001FFA (base 16) Coretree, Co, Ltd
#502 IT Venture Town, 694
Daejeon 305-510
KR

00-1F-F5 (hex) Kongsberg Defence & Aerospace
001FF5 (base 16) Kongsberg Defence & Aerospace
Kirkegaardsveien 45 P.O.Box 1003
Kongsberg NO-3601
NO

00-1F-F2 (hex) VIA Technologies, Inc.
001FF2 (base 16) VIA Technologies, Inc.
1F, 531, Chung-Cheng Road
Hsin-Tien Taipei 231
TW

00-1F-A3 (hex) T&W Electronics(Shenzhen)Co.,Ltd.
001FA3 (base 16) T&W Electronics(Shenzhen)Co.,Ltd.
2F,Baiying Building, No.1019,
ShenZhen GuangDong 518067
CN

00-1F-A2
(hex) Datron World Communications, Inc.
001FA2 (base 16) Datron World Communications, Inc.
3030 Enterprise Court
Vista California 92081
US

00-1F-F1 (hex) Paradox Hellas S.A.
001FF1 (base 16) Paradox Hellas S.A.
3 Korinthoy St
Athens Attiki 14451
GR

00-1F-E6 (hex) Alphion Corporation
001FE6 (base 16) Alphion Corporation
196 Princeton Hightstown Rd.
Princeton Junction NJ 08550
US

00-1F-DC (hex) Mobile Safe Track Ltd
001FDC (base 16) Mobile Safe Track Ltd
Niemenkatu 73
15149 Lahti
FI

00-1F-A9 (hex) Atlanta DTH, Inc.
001FA9 (base 16) Atlanta DTH, Inc.
5388 New Peachtree Rd
Chamblee GA 30341
US

00-1F-CF (hex) MSI Technology GmbH
001FCF (base 16) MSI Technology GmbH
Hanauer Landstraße 328-330
Frankfurt am Main Hessen 60314
DE

00-1F-2A (hex) ACCM
001F2A (base 16) ACCM
Obour Industrial City, Industrial zone A, lot14, block 12006.
Cairo

EG

00-1F-30 (hex) Travelping
001F30 (base 16) Travelping

Chemnitz Saxony 09113
DE

00-1F-24 (hex) DIGITVIEW TECHNOLOGY CO., LTD.
001F24 (base 16) DIGITVIEW TECHNOLOGY CO., LTD.
NO. 14-22, TIAN-FU ,
TAIPEI COUNTY 237
TW

00-1F-21 (hex) Inner Mongolia Yin An Science & Technology Development Co.,L
001F21 (base 16) Inner Mongolia Yin An Science & Technology Development Co.,L
YinAn Building Yiwei Road.RuYi
Beijing 010010
CN

00-1F-22 (hex) Source Photonics, Inc.
001F22 (base 16) Source Photonics, Inc.
20550 Nordhoff Street
Chatsworth CA 91311
US

00-1F-1D (hex) Atlas Material Testing Technology LLC
001F1D (base 16) Atlas Material Testing Technology LLC
4114 N. Ravenswood Ave.
Chicago IL 60613
US

00-1F-51 (hex) HD Communications Corp
001F51 (base 16) HD Communications Corp
2180 Fifth Ave
Ronkonkoma NY 11779
US

00-1F-53 (hex) GEMAC Chemnitz GmbH
001F53
(base 16) GEMAC Chemnitz GmbH
Zwickauer Straße 227
Chemnitz Sachsen 09116
DE

00-1F-4C (hex) Roseman Engineering Ltd
001F4C (base 16) Roseman Engineering Ltd
65 Weizman Street
Givataim Israel 53468
IL

00-1F-50 (hex) Swissdis AG
001F50 (base 16) Swissdis AG
Grasweg 7
Schwarzhaeusern BE 4911
CH

00-1F-48 (hex) Mojix Inc.
001F48 (base 16) Mojix Inc.
11075 Santa Monica Blvd.
Los Angeles Ca 90025
US

00-1F-3E (hex) RP-Technik e.K.
001F3E (base 16) RP-Technik e.K.
Hermann-Staudinger-Str. 10-16
Rodgau Hessen 63110
DE

00-1F-04 (hex) Granch Ltd.
001F04 (base 16) Granch Ltd.
40 Koroleva str.
Novosibirsk NSO 630015

RU

00-1E-F0 (hex) Gigafin Networks
001EF0 (base 16) Gigafin Networks
19050 Pruneridge
Cupertino CA 95014
US

00-1E-F2 (hex) Micro Motion Inc
001EF2 (base 16) Micro Motion Inc
7070 Winchester Circle
Boulder CO
80301
US

00-1F-37 (hex) Genesis I&C
001F37 (base 16) Genesis I&C
#515 lisantekeunotaun
Goyang Gyeonggi 410-722
KR

00-1F-2C (hex) Starbridge Networks
001F2C (base 16) Starbridge Networks
3265 Meridian Parkway
Weston FL 33331
US

00-1F-31 (hex) Radiocomp
001F31 (base 16) Radiocomp
Krakesvej 17
Hilleroed Copenhagen 3400
DK

00-1F-2B (hex) Orange Logic
001F2B (base 16) Orange Logic
#706 AceTechnoTower 10-cha,470-5
SEOUL 153-789
KR

00-1F-15 (hex) Bioscrypt Inc
001F15 (base 16) Bioscrypt Inc
505 Cochrane Drive
Markham Ontario L3R 8E3
CA

00-1F-70 (hex) Botik Technologies LTD
001F70 (base 16) Botik Technologies LTD
Trudovaya, 1

Pereslavl-Zalessky Yaroslavskaya 152020
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00-1F-6D (hex) Cisco Systems, Inc
001F6D (base 16) Cisco Systems, Inc
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US

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Beijing 100085
CN

00-1E-EA (hex) Sensor Switch, Inc.
001EEA (base 16) Sensor Switch, Inc.
900 Northrop Road
Wallingford CT 06492
US

00-1E-98 (hex) GreenLine Communications
001E98 (base 16) GreenLine Communications
Alrabiah - Alrabeea Street
Amman Central Region 11953
JO

00-1E-9A (hex) HAMILTON Bonaduz AG
001E9A (base 16) HAMILTON Bonaduz AG
Via Crusch 8
Bonaduz Graubuenden 7402
CH

00-1E-94 (hex) SUPERCOM TECHNOLOGY CORPORATION
001E94 (base 16) SUPERCOM TECHNOLOGY CORPORATION
8F, NO 100-1, Ming-Chuan Rd.
Shing Tien Taipei 231
TW

00-1E-A6 (hex) Best IT World (India) Pvt. Ltd.
001EA6 (base 16) Best IT World (India) Pvt. Ltd.
87/70/93 Mistry Industrial Complex,
Mumbai Maharashtra 400093
IN

00-1E-A5 (hex) ROBOTOUS, Inc.
001EA5 (base 16) ROBOTOUS, Inc.

Nex Center-201(Lab.),
SK n Technopark
Seongnam-si Gyeonggi-do 462-120
KR

00-1E-A7 (hex) Actiontec Electronics, Inc
001EA7 (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

00-1E-A0 (hex) XLN-t
001EA0 (base 16) XLN-t
Hoogstraat 52
Putte Antwerp B2580
BE

00-1E-83 (hex) LAN/MAN Standards Association (LMSC)
001E83 (base 16) LAN/MAN Standards Association (LMSC)
IEEE 802.1 Chair, c/o RAC Administrator IEEE
Piscataway NJ 08854
US

00-1E-7C (hex) Taiwick Limited
001E7C (base 16) Taiwick Limited
5/F., Block E, Hing Yip Factory Bldg.,
Hong Kong China 852
HK

00-1E-78 (hex) Owitek Technology Ltd.,
001E78 (base 16) Owitek Technology Ltd.,
No.2, Lane 78, Cingshan 6th St.,
Taoyuan County 32657
TW

00-1E-7A (hex) Cisco Systems, Inc
001E7A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1E-62 (hex) Siemon
001E62
(base 16) Siemon
27 Siemon Company Drive
Watertown CT 06795
US

00-1E-5C (hex) RB GeneralEkonomik
001E5C (base 16) RB GeneralEkonomik
Bulevar despota stefana 59a
Beograd Serbia 11000
YU

00-1E-5D (hex) Holosys d.o.o.
001E5D (base 16) Holosys d.o.o.
Kovinska 4
Zagreb 10090
HR

00-1E-60 (hex) Digital Lighting Systems, Inc
001E60 (base 16) Digital Lighting Systems, Inc
12302 Sw 128th ct, #105
Miami FL 33186
US

00-1E-DF (hex) Master Industrialization Center Kista
001EDF (base 16) Master Industrialization Center Kista
Torshamnsgatan 36
Stockholm SE-164 80
SE

00-1E-E3 (hex) T&W Electronics (ShenZhen) Co.,Ltd
001EE3 (base 16) T&W Electronics (ShenZhen) Co.,Ltd
2F Baiying Building, No.19, NanhaiRd., Nanshan Dist
ShenZhen GuangDong 518052
CN

00-1E-D9 (hex) Mitsubishi Precision Co.,LTd.
001ED9 (base 16) Mitsubishi Precision Co.,LTd.
345 KAMIMACHIYA
KAMAKURA-City
KANAGAWA-Prefecture 247-8505
JP

00-1E-6C (hex) Opaque Systems
001E6C (base 16) Opaque Systems
4820 Fisher Road
Athens OH 45701
US

00-1E-D3 (hex) Dot Technology Int'l Co., Ltd.
001ED3 (base 16) Dot Technology Int'l Co., Ltd.
Unit 1001, Fourseas Building 208-212, Nathan Road
Kowloon
HK

00-1E-CF (hex) PHILIPS ELECTRONICS UK LTD
001ECF (base 16) PHILIPS ELECTRONICS UK LTD
PHILIPS CENTRE
GUILDFORD SURREY GU2 8XH
GB

00-1E-8F (hex) CANON INC.
001E8F (base 16) CANON INC.
3-30-2
Ohta-Ku Tokyo 146-8501
JP

00-1D-E8 (hex) Nikko Denki Tsushin Corporation(NDTC)
001DE8 (base 16) Nikko Denki Tsushin Corporation(NDTC)
440 Kamoshida-town, Aoba-ku
Yokohama 227-0033
JP

00-1D-DA (hex) Mikroelektronika spol. s r. o.
001DDA (base 16) Mikroelektronika spol. s r. o.
Dráby 849
Vysoké Mýto CZ 566 01
CZ

00-1D-E3 (hex) Intuicom
001DE3 (base 16) Intuicom
4900
Nautilus CT N
Boulder CO 80301
US

00-1D-DE (hex) Zhejiang Broadcast&Television Technology Co.,Ltd.
001DDE (base 16) Zhejiang Broadcast&Television Technology Co.,Ltd.
Building No.16,Xidoumen Industry Park,Wenyi Road,
Hangzhou Zhejiang 310012
CN

00-1D-E5 (hex) Cisco Systems, Inc
001DE5 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1E-1A (hex) Best Source Taiwan Inc.
001E1A (base 16) Best Source Taiwan Inc.
2F, No.16, Lane 56, Jhongjheng W. Rd.,
Jhubei City, Hsinchu County 302

TW

00-1E-19 (hex) GTRI
001E19 (base 16) GTRI
M/S 0821
Atlanta GA 30332
US

00-1E-14 (hex) Cisco Systems, Inc
001E14 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1E-36 (hex) IPTE
001E36 (base 16) IPTE
Geleenlaan 5
Genk Limburg 3600
BE

00-1E-27 (hex) SBN TECH Co.,Ltd.
001E27 (base 16) SBN
TECH Co.,Ltd.
#706 Industrial Academic Center, Konkuk University, Hwayang-dong, Gwangjin-gu
Seoul 143-701
KR

00-1E-22 (hex) ARVOO Imaging Products BV
001E22 (base 16) ARVOO Imaging Products BV
Tasveld 13
Montfoort UT 3417 XS
NL

00-1D-CB (hex) Exéns Development Oy
001DCB (base 16) Exéns Development Oy
Kauppakatu 36
Kajaani Kainuu 87100
FI

00-1D-CA (hex) PAV Electronics Limited
001DCA (base 16) PAV Electronics Limited
7 Laverock Road
Airdrie Lanarkshire ML6 7UD
GB

00-1D-C2 (hex) XORTEC OY
001DC2 (base 16) XORTEC OY
Höytämöntie 6

Lempäälä Pirkanmaa 33880
FI

00-1E-44 (hex) SANTEC
001E44 (base 16) SANTEC
An der Strusbek 31
Ahrensburg Schleswig Holstein 22926
DE

00-1E-0E (hex) MAXI VIEW HOLDINGS LIMITED
001E0E (base 16) MAXI VIEW HOLDINGS LIMITED
Suite 2302,23/F Great Eagle Centre, 23 Harbour Road, Wanchai
Hong Kong
CN

00-1E-0F (hex) Briot
International
001E0F (base 16) Briot International
2 rue roger Bonnet
Pont de l'Arche Eure 27340
FR

00-1D-FE (hex) Palm, Inc
001DFE (base 16) Palm, Inc
950 West Maude Ave
Sunnyvale CA 94085
US

00-1D-F5 (hex) Sunshine Co,LTD
001DF5 (base 16) Sunshine Co,LTD
1-3-5 Kojimachi
TOKYO Kanto region 102-0083
JP

00-1D-F0 (hex) Vidient Systems, Inc.
001DF0 (base 16) Vidient Systems, Inc.
4000 Burton Drive
Santa Clara CA 94054
US

00-1D-EC (hex) Marusys
001DEC (base 16) Marusys
Eunsung Bldg. 5F
Seoul 135-763
KR

00-1D-B8 (hex) Intoto Inc.
001DB8 (base 16) Intoto Inc.

3100 De La Cruz Blvd. #300
Santa Clara CA 95054
US

00-1E-2F (hex) DiMoto Pty Ltd
001E2F (base 16) DiMoto Pty Ltd
7 Meljaren Place
Buderim Queensland 4556
AU

00-1D-A7 (hex) Seamless Internet
001DA7 (base 16) Seamless Internet
2050 Russett Way Suite 338
Carson
City Nevada 89703
US

00-1D-A8 (hex) Takahata Electronics Co.,Ltd
001DA8 (base 16) Takahata Electronics Co.,Ltd
1188,Kubota,Kubota-machi
Yonezawa-shi Yamagata-Pref. 992-0003
JP

00-1D-A9 (hex) Castles Technology, Co., LTD
001DA9 (base 16) Castles Technology, Co., LTD
2F, No.205, Sec 3 Beishin Rd.,
Hsin-Tien City Taipei 231
TW

00-1D-A5 (hex) WB Electronics
001DA5 (base 16) WB Electronics
Langelandsvej 1A
Herning Herning 7400
DK

00-1D-A1 (hex) Cisco Systems, Inc
001DA1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1D-96 (hex) WatchGuard Video
001D96 (base 16) WatchGuard Video
3001 Summit Ave.
Plano TX 75074
US

00-1D-55 (hex) ZANTAZ, Inc

001D55 (base 16) ZANTAZ, Inc
5758 W. Las Positas Avenue
Pleasanton CA 94588
US

00-1D-52 (hex) Defzone B.V.
001D52 (base 16) Defzone B.V.
Transportcentrum 10
Enschede
Overijssel 7547 RW
NL

00-1D-4A (hex) Carestream Health, Inc.
001D4A (base 16) Carestream Health, Inc.
150 Verona Street
Rochestser NY 14608
US

00-1D-8F (hex) PureWave Networks
001D8F (base 16) PureWave Networks
2660-C Marine Way
Mountain View CA 94043
US

00-1D-8C (hex) La Crosse Technology LTD
001D8C (base 16) La Crosse Technology LTD
2809 Losey Blvd. So.
La Crosse WI 54601
US

00-1D-71 (hex) Cisco Systems, Inc
001D71 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1D-65 (hex) Microwave Radio Communications
001D65 (base 16) Microwave Radio Communications
101 Billerica Avemue, Bldg 6
N. Billerica MA 01862
US

00-1D-64 (hex) Adam Communications Systems Int Ltd
001D64 (base 16) Adam Communications Systems Int Ltd
The Mission
Stockport Cheshire SK1 3AH
GB

00-1D-5E (hex) COMING MEDIA CORP.
001D5E (base 16) COMING MEDIA
CORP.
BONA Bld. 4th Fl., 548-18
Seoul 135-158
KR

00-1D-50 (hex) SPINETIX SA
001D50 (base 16) SPINETIX SA
Parc Scientifique de l'EPFL, Bâtiment C
Lausanne VD 1015
CH

00-1D-45 (hex) Cisco Systems, Inc
001D45 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1D-36 (hex) ELECTRONICS CORPORATION OF INDIA LIMITED
001D36 (base 16) ELECTRONICS CORPORATION OF INDIA LIMITED
CONTROL AND AUTOMATION DIVISION-3
HYDERABAD ANDHRA PRADESH 500 062
IN

00-1D-B0 (hex) FuJian HengTong Information Technology Co.,Ltd
001DB0 (base 16) FuJian HengTong Information Technology Co.,Ltd
No.14-804,Building 2,JinXiuFuCheng,No.338,HuaLin Road
FuZhou City FuJian Province 350001
CN

00-1D-69 (hex) Knorr-Bremse IT-Services GmbH
001D69 (base 16) Knorr-Bremse IT-Services GmbH
Moosacher Str. 80
Muenchen BY 80809
DE

00-1D-07 (hex) Shenzhen Sang Fei Consumer Communications
Co.,Ltd
001D07 (base 16) Shenzhen Sang Fei Consumer Communications Co.,Ltd
11 Science and Technology Road,
Shenzhen Guangdong 518057
CN

00-1D-06 (hex) HM Electronics, Inc.
001D06 (base 16) HM Electronics, Inc.
14110 Stowe Drive
Poway CA 92064

US

00-1D-01 (hex) Neptune Digital
001D01 (base 16) Neptune Digital
Mednarodni mejni prehod 6
Vrtojba Nova Gorica 5290
SI

00-1C-F8 (hex) Parade Technologies, Ltd.
001CF8 (base 16) Parade Technologies, Ltd.
C/O Parade Technologies, Inc.
Sunnyvale CA 94085
US

00-1C-F7 (hex) AudioScience
001CF7 (base 16) AudioScience
729 west 16th st
Costa Mesa California 92627
US

00-1C-F6 (hex) Cisco Systems, Inc
001CF6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1D-33 (hex) Maverick Systems Inc.
001D33 (base 16) Maverick Systems Inc.
908, Daerungposttower 2-cha, 182-13
Seoul 152-790
KR

00-1D-2C
(hex) Wavetrend Technologies (Pty) Limited
001D2C (base 16) Wavetrend Technologies (Pty) Limited
Wavetrend House, Building 816/3
Gauteng 2021
ZA

00-1C-CF (hex) LIMETEK
001CCF (base 16) LIMETEK
#213-1, Byucksan Digital Valley II, 480-10, Gasan-dong,
Seoul 153-783
KR

00-1C-CA (hex) Shanghai Gaozhi Science & Technology Development Co.
001CCA (base 16) Shanghai Gaozhi Science & Technology Development Co.
No.283 Qin Jiang Rd. Shanghai,China

Shanghai 200233
CN

00-1C-AD (hex) Wuhan Telecommunication Devices Co.,Ltd
001CAD (base 16) Wuhan Telecommunication Devices Co.,Ltd
88 Youkeyuan Road,Hongshan District
Wuhan Hubei 430074
CN

00-1C-A7 (hex) International Quartz Limited
001CA7 (base 16) International Quartz Limited
2nd Floor, 2, Dai Wang Street,
Hong Kong 852
CN

00-1C-AB (hex) Meyer Sound Laboratories, Inc.
001CAB (base 16) Meyer Sound Laboratories,
Inc.
2832 San Pablo Ave.
Berkeley CA 94702
US

00-1C-F5 (hex) Wiseblue Technology Limited
001CF5 (base 16) Wiseblue Technology Limited
Rm G5, 5/F, Kingsford Industrial Building Phase II, 26-32 Kwai Hei Street,
Kwai Chung N.T.
HK

00-1C-EE (hex) SHARP Corporation
001CEE (base 16) SHARP Corporation
22-22,Nagaike-cho
Osaka city Osaka prefecture 545-8522
JP

00-1C-C9 (hex) Kaise Electronic Technology Co., Ltd.
001CC9 (base 16) Kaise Electronic Technology Co., Ltd.
No.678, Wunsyue Rd., Zuoying District,
Kaohsiung 813
TW

00-1C-C8 (hex) INDUSTRONIC Industrie-Electronic GmbH & Co. KG
001CC8 (base 16) INDUSTRONIC Industrie-Electronic GmbH & Co. KG
Carl-Jacob-Kolb-Weg 1
Wertheim Baden-Württemberg 97877
DE

00-1C-C6 (hex) ProStor Systems
001CC6 (base 16) ProStor Systems

5555 Central Avenue
Boulder Colorado 80301
US

00-1C-BE (hex) Nintendo Co., Ltd.
001CBE (base 16) Nintendo
Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-1D-27 (hex) NAC-INTERCOM
001D27 (base 16) NAC-INTERCOM
AVDA. RICARDO MELLA 123-B
VIGO PONTEVEDRA 36330
ES

00-1D-24 (hex) Aclara Power-Line Systems Inc.
001D24 (base 16) Aclara Power-Line Systems Inc.
945 Hornet Drive
Hazelwood MO 63042
US

00-1D-18 (hex) Power Innovation GmbH
001D18 (base 16) Power Innovation GmbH
Rehland 2
Achim Niedersachsen 28832
DE

00-1C-E3 (hex) Optimedical Systems
001CE3 (base 16) Optimedical Systems
235 Hembree Park Drive
Roswell GA 30076
US

00-1C-DE (hex) Interactive Multimedia eXchange Inc.
001CDE (base 16) Interactive Multimedia eXchange Inc.
NO. 165 Wenlin Road.
Taipei Taiwan 111
TW

00-1D-1B (hex) Sangean Electronics Inc.
001D1B (base 16) Sangean Electronics Inc.
No. 18, Lane 7, Li-De street
Chung Ho City Taipei Hsien 235
TW

00-1D-17

(hex) Digital Sky Corporation
001D17 (base 16) Digital Sky Corporation
5-5-15 Sotokanda,
Chiyoda-ku Tokyo 101-0021
JP

00-1C-9E (hex) Dualtech IT AB
001C9E (base 16) Dualtech IT AB
Banehagsgatan 1F
GOTHENBURG Västra Götaland 41451
SE

00-1C-94 (hex) LI-COR Biosciences
001C94 (base 16) LI-COR Biosciences
4647 Superior Street
Lincoln NE 68504
US

00-1C-8C (hex) DIAL TECHNOLOGY LTD.
001C8C (base 16) DIAL TECHNOLOGY LTD.
6F-4, NO.18, LANE.609, SEC.5, CHONGSIN RD.,
SANCHONG CITY TAIPEI COUNTY 241
TW

00-1C-48 (hex) WiDeFi, Inc.
001C48 (base 16) WiDeFi, Inc.
1333 Gateway Blvd
Melbourne FL 32901
US

00-1C-46 (hex) QTUM
001C46 (base 16) QTUM
#507 Byucksan/Kyungin Digital Valley 2 481-10
Seoul 153-783
KR

00-1C-42 (hex) Parallels, Inc.
001C42 (base 16) Parallels, Inc.
660 SW 39h Street
Renton WA 98057
US

00-1C-3E (hex) ECKey
Corporation
001C3E (base 16) ECKey Corporation
206A W James St
Lancaster PA 17603
US

00-1C-39 (hex) S Netsystems Inc.
001C39 (base 16) S Netsystems Inc.
10F Sungwon Bldg., 141 Samsung-Dong
Seoul 135-716
KR

00-1C-93 (hex) ExaDigm Inc
001C93 (base 16) ExaDigm Inc
2871 Pullman St
Santa Ana CA 92705
US

00-1C-85 (hex) Eunicorn
001C85 (base 16) Eunicorn
226-16 unbo b/d suckchon-dong songpa-gu
seoul 138845
KR

00-1C-80 (hex) New Business Division/Rhea-Information CO., LTD.
001C80 (base 16) New Business Division/Rhea-Information CO., LTD.
4F 594 Yeong Pung Bldg, Gueui-Dong
Seoul Gwangjin-Gu 143-200
KR

00-1C-83 (hex) New Level Telecom Co., Ltd.
001C83 (base 16) New Level Telecom Co., Ltd.
INNOPLEX 1-703
Seoul 153-803
KR

00-1C-27 (hex) Sunell Electronics Co.
001C27 (base 16) Sunell Electronics Co.
3rd Floor,Bldg.514,BaGua Rd
ShenZhen Guangdong
518029
CN

00-1C-22 (hex) Aeris Elettronica s.r.l.
001C22 (base 16) Aeris Elettronica s.r.l.
Zona Ind.le Vallecupa
Colonnella Teramo 64010
IT

00-1C-1D (hex) CHENZHOU GOSPELL DIGITAL TECHNOLOGY CO.,LTD
001C1D (base 16) CHENZHOU GOSPELL DIGITAL TECHNOLOGY CO.,LTD
BAILUTANG,SUXIAN DISTRICT,
CHENZHOU HUNAN 423025

CN

00-1C-67 (hex) Pumpkin Networks, Inc.
001C67 (base 16) Pumpkin Networks, Inc.
3FL JungHo Bldg, 108-4 Sangdo-Dong, Dongjak-Gu
SEOUL 156-030
KR

00-1C-60 (hex) CSP Frontier Technologies,Inc.
001C60 (base 16) CSP Frontier Technologies,Inc.
3-2-3,Sasazuka
Shibuya-ku Tokyo 151-0073
JP

00-1C-51 (hex) Celeno Communications
001C51 (base 16) Celeno Communications
22 Zarhin Street
Ra'anana 43665
IL

00-1C-0F (hex) Cisco Systems, Inc
001C0F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1C-0A (hex) Shenzhen AEE Technology
Co.,Ltd.
001C0A (base 16) Shenzhen AEE Technology Co.,Ltd.
1st Floor B Building, Shenzhen,
Shenzhen Guangdong 518057
CN

00-1C-0D (hex) G-Technology, Inc.
001C0D (base 16) G-Technology, Inc.
1653 Stanford Street
Santa Monica CA 90404
US

00-1C-76 (hex) The Wandsworth Group Ltd
001C76 (base 16) The Wandsworth Group Ltd
Albert Drive
Woking Surrey GU21 5SE
GB

00-1C-72 (hex) Mayer & Cie GmbH & Co KG
001C72 (base 16) Mayer & Cie GmbH & Co KG
Emil Mayer Strasse 10

Albstadt Baden-Württemberg 72461
DE

00-1C-6A (hex) Weiss Engineering Ltd.
001C6A (base 16) Weiss Engineering Ltd.
Florastrasse 42
Uster ZH 8610
CH

00-1C-37 (hex) Callpod, Inc.
001C37 (base 16) Callpod, Inc.
850 W. Jackson
Chicago IL 60607
US

00-1C-33 (hex) Sutron
001C33 (base 16) Sutron
21300 Ridgetop Cir
Sterling VA 20166
US

00-1C-2F (hex) Pfister GmbH
001C2F (base
16) Pfister GmbH
Stätzlinger SStraße 70
Augsburg Bavaria 86165
DE

00-1C-54 (hex) Hillstone Networks Inc
001C54 (base 16) Hillstone Networks Inc
A-1905 e-Wing Center
Beijing 100086
CN

00-1C-59 (hex) DEVON IT
001C59 (base 16) DEVON IT
1100 FIRST AVENUE
KING OF PRUSSIA PA 19406
US

00-1B-F6 (hex) CONWISE Technology Corporation Ltd.
001BF6 (base 16) CONWISE Technology Corporation Ltd.
2F No.44, Park Ave. 2, Hsinchu Science Park
Hsinchu City 30075
TW

00-1B-F8 (hex) Digitrax Inc.
001BF8 (base 16) Digitrax Inc.

2443 Transmitter Rd,
Panama City FL 32404
US

00-1B-F1 (hex) Nanjing SilverNet Software Co., Ltd.
001BF1 (base 16) Nanjing SilverNet Software Co., Ltd.
3/F, 10 building, Nanjing World Window Technology & Software Park
Nanjing Jiangsu 210013
CN

00-1B-EF (hex) Blossoms Digital Technology Co.,Ltd.
001BEF (base 16) Blossoms Digital Technology Co.,Ltd.
BLK25,Hengfeng
Ind.City,Hezhou
Shenzhen Guangdong 518126
CN

00-1B-EB (hex) DMP Electronics INC.
001BEB (base 16) DMP Electronics INC.
8F., No.12, Wucyuan 7th Rd.,
Taipei County 248
TW

00-1B-E7 (hex) Postek Electronics Co., Ltd.
001BE7 (base 16) Postek Electronics Co., Ltd.
Suite 510, Shanghang Building
Shen Zhen Guang Dong 518028
CN

00-1B-B8 (hex) BLUEWAY ELECTRONIC CO;LTD
001BB8 (base 16) BLUEWAY ELECTRONIC CO;LTD
Workshop B,Dong Feng Village,
HuiZhou GuangDong 516008
CN

00-1B-B2 (hex) Intellect International NV
001BB2 (base 16) Intellect International NV
Kleine Kloosterstraat 23
Zaventem Vlaamse brabant 1932
BE

00-1B-B0 (hex) Bharat Electronics Limited
001BB0 (base 16) Bharat Electronics Limited
JALAHALLI POST
BANGALORE KARNATAKA 560013
IN

00-1B-AD (hex) iControl Incorporated

001BAD (base 16) iControl Incorporated
3235 Kifer Road
Santa Clara
California 95051
US

00-1B-A7 (hex) Lorica Solutions
001BA7 (base 16) Lorica Solutions
275 Northpointe Parkway
Amherst NY 14228
US

00-1B-A5 (hex) MyungMin Systems, Inc.
001BA5 (base 16) MyungMin Systems, Inc.
#410,Doosan Venture Dime 2-cha,1307-37
Kyungki-do 431-060
KR

00-1B-7F (hex) TMN Technologies Telecomunicacoes Ltda
001B7F (base 16) TMN Technologies Telecomunicacoes Ltda
Rua Nilza, 422
São Paulo SP 03651-120
BR

00-1B-7E (hex) Beckmann GmbH
001B7E (base 16) Beckmann GmbH
Brandtstraße 1
Hoevelhof NRW 33161
DE

00-1B-7A (hex) Nintendo Co., Ltd.
001B7A (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-1B-A2 (hex) IDS Imaging Development Systems GmbH
001BA2 (base 16) IDS Imaging Development Systems GmbH
Dimbacher Str. 6
Obersulm BW 74182
DE

00-1B-9D (hex) Novus Security Sp. z o.o.
001B9D
(base 16) Novus Security Sp. z o.o.
ul. Puawska 431
Warsaw woj. mazowieckie 02-801
PL

00-1B-95 (hex) VIDEO SYSTEMS SRL
001B95 (base 16) VIDEO SYSTEMS SRL
Loc. Gorizzo, 16
CAMINO AL TAGLIAMENTO UD
IT

00-1B-D5 (hex) Cisco Systems, Inc
001BD5 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1B-CE (hex) Measurement Devices Ltd
001BCE (base 16) Measurement Devices Ltd
Redwood House
York Yorkshire YO266QR
GB

00-1B-C9 (hex) FSN DISPLAY INC
001BC9 (base 16) FSN DISPLAY INC
Baeksuk-Dong 1141-1, Ilsan Techno Town 1009
Koyang-si Kyeonggi-Do 410722
KR

00-1B-C3 (hex) Mobisolution Co.,Ltd
001BC3 (base 16) Mobisolution Co.,Ltd
848-16
Gumi Gyeongbuk 730-300
KR

00-1B-90 (hex) Cisco Systems, Inc
001B90 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1B-87 (hex) Deepsound Tech. Co., Ltd
001B87
(base 16) Deepsound Tech. Co., Ltd
3F No. 576 Sec. 1, Minsheng N. Rd., Gueishan Township,
Taoyuan 333
TW

00-1C-03 (hex) Betty TV Technology AG
001C03 (base 16) Betty TV Technology AG
Hardturmstrasse 2
Zurich 80005

CH

00-1B-E3 (hex) Health Hero Network, Inc.
001BE3 (base 16) Health Hero Network, Inc.
2000 Seaport Blvd.
Redwood City CA 94063
US

00-1B-DC (hex) Vencer Co., Ltd.
001BDC (base 16) Vencer Co., Ltd.
20F-1, No.77, Sec.1, Hsin Tai Wu Rd.,
Hsi Chih Taipei 221
TW

00-1A-FE (hex) SOFACREAL
001AFE (base 16) SOFACREAL
149 avenue du MAINE
PARIS Region Parisienne 75014
FR

00-1A-F1 (hex) Embedded Artists AB
001AF1 (base 16) Embedded Artists AB
Davidshallsgatan 16
Malmoe 21145
SE

00-1A-F8 (hex) Copley Controls Corporation
001AF8 (base 16) Copley Controls Corporation
20 Dan Road
Canton MA 02021
US

00-1A-F5 (hex) PENTAONE. CO., LTD.
001AF5
(base 16) PENTAONE. CO., LTD.
Hyo Chang Bldg, 3F, 1013-6, Inkye-dong Paldal-Gu,
Suwon City Gyunggi-Do 422-833
KR

00-1B-72 (hex) Sicep s.p.a.
001B72 (base 16) Sicep s.p.a.
Via calabria, 14
Certaldo 50052
IT

00-1B-74 (hex) MiraLink Corporation
001B74 (base 16) MiraLink Corporation
111 SW 5th Ave.

Portland OR 97204
US

00-1B-6D (hex) Midtronics, Inc.
001B6D (base 16) Midtronics, Inc.
7000 Monroe St.
Willowbrook IL 60527
US

00-1B-6F (hex) Teletrak Ltd
001B6F (base 16) Teletrak Ltd
214 Kepa Road
Auckland 1071
NZ

00-1B-34 (hex) Focus System Inc.
001B34 (base 16) Focus System Inc.
19F-1, No. 266 Wen Hwa 2nd Rd., Sec. 1
Linkou Taipei County
TW

00-1B-3A (hex) SIMS Corp.
001B3A (base 16) SIMS Corp.
RAON Bldg, 9F, 92-8, Wonhyoro-2ga, Yongsan-gu
Seoul 140-847
KR

00-1B-2E (hex) Sinkyo Electron Inc
001B2E (base 16) Sinkyo Electron
Inc
1-22-19 Daimachi
Hachioji-city Tokyo 193-0931
JP

00-1B-1A (hex) e-trees Japan, Inc.
001B1A (base 16) e-trees Japan, Inc.
Oowada-cho 2-9-2
Hachioji-city Tokyo 150-0001
JP

00-1B-12 (hex) Apprion
001B12 (base 16) Apprion
Nasa Ames Rerearch Center
Moffett Field California 94035
US

00-1B-0D (hex) Cisco Systems, Inc
001B0D (base 16) Cisco Systems, Inc

80 West Tasman Drive
San Jose CA 94568
US

00-1B-0A (hex) Intelligent Distributed Controls Ltd
001B0A (base 16) Intelligent Distributed Controls Ltd
Keynes House, Chester Park
Derby Derbyshire DE21 4AS
GB

00-1B-5F (hex) Alien Technology
001B5F (base 16) Alien Technology
18220 Butterfield Blvd.
Morgan Hill CA 95037
US

00-1B-5E (hex) BPL Limited
001B5E (base 16) BPL Limited
BPL Towers
Bangalore Karnataka 560001
IN

00-1B-61 (hex) Digital Acoustics, LLC
001B61 (base 16) Digital Acoustics,
LLC
37 Sherwood Terrace
Lake Bluff IL 60044
US

00-1B-4B (hex) SANION Co., Ltd.
001B4B (base 16) SANION Co., Ltd.
#208 ACETECHNO TOWER, 55-7, MULLAE-DONG 3GA,
YEONGDEUNGPO-GU SEOUL 150-992
KR

00-1B-4D (hex) Areca Technology Corporation
001B4D (base 16) Areca Technology Corporation
8F., No. 22, Lane 35, Ji-Hu Rd.
Taipei 114
TW

00-1B-2D (hex) Med-Eng Systems Inc.
001B2D (base 16) Med-Eng Systems Inc.
2400 St. Laurent Blvd.
Ottawa Ontario K1G 6C4
CA

00-1B-1D (hex) Phoenix International Co., Ltd

001B1D (base 16) Phoenix International Co., Ltd
11F. No.42-1, Sec.1, Zhongyang N. Rd. Beitou
Taipei 112
TW

00-1B-5C (hex) Azuretec Co., Ltd.
001B5C (base 16) Azuretec Co., Ltd.
3F, No.8, Alley 8, Lane 45, Baoxing Rd., Xindian Dist.,
New Taipei City Taiwan 231
TW

00-1A-E9 (hex) Nintendo Co., Ltd.
001AE9 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO
KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-1A-E5 (hex) Mvox Technologies Inc.
001AE5 (base 16) Mvox Technologies Inc.
19050 Pruneridge Ave
Cupertino CA 95014
US

00-1A-E4 (hex) Medicis Technologies Corporation
001AE4 (base 16) Medicis Technologies Corporation
11818 North Creek Parkway N.
Bothell WA 98011
US

00-1A-ED (hex) INCOTEC GmbH
001AED (base 16) INCOTEC GmbH
Blomestrasse 25 - 27
Bielefeld NRW 33609
DE

00-1A-EE (hex) Shenztech Ltd
001AEE (base 16) Shenztech Ltd
813, 8F, HOLLYWOOD PLAZA, 610 NATHAN ROAD,
KOWLOON 852
HK

00-1A-E3 (hex) Cisco Systems, Inc
001AE3 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1A-DF (hex) Interactivetv Pty Limited
001ADF (base 16) Interactivetv Pty Limited
Suite 10 Level 3
Pyrmont, Sydney NSW 2009
US

00-1A-E1 (hex) EDGE ACCESS INC
001AE1 (base 16) EDGE ACCESS INC
5440
BEAUMONT CENTER BLVD
TAMPA FL 33634
US

00-1A-C0 (hex) JOYBIEN TECHNOLOGIES CO., LTD.
001AC0 (base 16) JOYBIEN TECHNOLOGIES CO., LTD.
14F-7, NO.2, JIAN 8TH RD.,
NEW TAIPEI CITY TAIWAN 23511
TW

00-1A-C2 (hex) YEC Co.,Ltd.
001AC2 (base 16) YEC Co.,Ltd.
543-9 Tsuruma
Machida Tokyo 194-0004
JP

00-1A-B1 (hex) Asia Pacific Satellite Industries Co., Ltd.
001AB1 (base 16) Asia Pacific Satellite Industries Co., Ltd.
9th FL, IT Castle 2-Dong, #550-1, Gasan-Dong, GeumCheon-Gu,
Seoul 153-768
KR

00-1A-B2 (hex) Cyber Solutions Inc.
001AB2 (base 16) Cyber Solutions Inc.
6-6-3, Minami Yoshinari
Sendai Miyagi-ken 989-3204
JP

00-1A-B7 (hex) Ethos Networks LTD.
001AB7 (base 16) Ethos Networks LTD.
2 Maskit St.
Herzlia 46766
IL

00-1A-A2 (hex) Cisco Systems, Inc
001AA2 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1A-A5 (hex) BRN
Phoenix
001AA5 (base 16) BRN Phoenix
2500 Augustine Drive, Suite 200
Santa Clara CA 95054
US

00-1A-97 (hex) fitivision technology Inc.
001A97 (base 16) fitivision technology Inc.
8F, No. 356, Sec. 1, Neihu Rd
Taipei 114
TW

00-1A-90 (hex) Trópico Sistemas e Telecomunicações da Amazônia LTDA.
001A90 (base 16) Trópico Sistemas e Telecomunicações da Amazônia LTDA.
Rod. Campinas-Mogi-Mirim (SP 340) Km 118,5
Campinas São Paulo 13.086-902
BR

00-1A-94 (hex) Votronic GmbH
001A94 (base 16) Votronic GmbH
Saarbruecker Str. 8
St. Ingbert Saarland 66386
DE

00-1A-86 (hex) New Wave Design & Verification
001A86 (base 16) New Wave Design & Verification
4950 W 78th St.
Minneapolis MN 55435
US

00-1A-D2 (hex) Eletronica Nitron Ltda
001AD2 (base 16) Eletronica Nitron Ltda
Rua Dr. Ulisses Escobar 415
Camanducaia Minas Gerais 37650-000
BR

00-1A-CE (hex) YUPITERU
CORPORATION
001ACE (base 16) YUPITERU CORPORATION
3, Dannoue, Iwazu-cho, Okazaki-city, Aichi
Okazaki Aichi 444-2144
JP

00-1A-CC (hex) Celestial Semiconductor, Ltd
001ACC (base 16) Celestial Semiconductor, Ltd
Ugland House, South Church Street,

George Town, Cayman Islands 00000
KY

00-1A-C7 (hex) UNIPOINT
001AC7 (base 16) UNIPOINT
7F Gwangsung Bld 831-47 YeokSam-Dong
Seoul 135-936
KR

00-1A-9C (hex) RightHand Technologies, Inc.
001A9C (base 16) RightHand Technologies, Inc.
7450 W Wilson Avenue
Chicago IL 60706
US

00-1A-9E (hex) ICON Digital International Limited
001A9E (base 16) ICON Digital International Limited
Suite2209, 22/F., SkyLine Tower,

CN

00-1A-98 (hex) Asotel Communication Limited Taiwan Branch
001A98 (base 16) Asotel Communication Limited Taiwan Branch
3G17, No5, Hsin Yi Road, Sec. 5
Taipei 110
TW

00-1A-7E (hex) LN Srithai Comm Ltd.
001A7E
(base 16) LN Srithai Comm Ltd.
71/12 M.5, Bangna-Trad Rd, KM.52, Thakam
Bangpakong Chachoengsao 24130
TH

00-1A-38 (hex) Sanmina-SCI
001A38 (base 16) Sanmina-SCI
13000 South Memorial Parkway
Huntsville AL 35803
US

00-1A-2B (hex) Ayecom Technology Co., Ltd.
001A2B (base 16) Ayecom Technology Co., Ltd.
No. 25, R&D Road 2, Science-Based Industrial Park
Hsinchu 300
TW

00-1A-28 (hex) ASWT Co., LTD. Taiwan Branch H.K.
001A28 (base 16) ASWT Co., LTD. Taiwan Branch H.K.

7F., No.3 Lane 91, Dongmei Rd.
Hsinchu 30070
TW

00-1A-2C (hex) SATEC Co.,LTD
001A2C (base 16) SATEC Co.,LTD
358-4, Palgok2-Dong, Sangnok-Gu
Ansan-Si Kyungki-Do 426-190
KR

00-1A-27 (hex) Ubistar
001A27 (base 16) Ubistar
8F, Seongo Building, 587-23
Seoul 135-747
KR

00-1A-2E (hex) Ziova Coporation
001A2E (base 16) Ziova Coporation
Unit 3, 7-9 Sherriffs road
Lonsdale S.A. 5160
AU

00-1A-32
(hex) ACTIVA MULTIMEDIA
001A32 (base 16) ACTIVA MULTIMEDIA
SICP CSE
SANT JOAN DESPI BARCELONA 08970
ES

00-1A-35 (hex) BARTEC GmbH
001A35 (base 16) BARTEC GmbH
Max-Eyth-Straße 16
Bad Mergentheim Bavaria 97980
DE

00-1A-37 (hex) Lear Corporation
001A37 (base 16) Lear Corporation
Industriestrasse 48
Kronach Bayern 96317
DE

00-1A-5A (hex) Korea Electric Power Data Network (KDN) Co., Ltd
001A5A (base 16) Korea Electric Power Data Network (KDN) Co., Ltd
665 NAESON-DONG,
GYEONGGI-DO UIWANG-SI, NAESON-DONG 437-082
KR

00-1A-5F (hex) KitWorks.fi Ltd.

001A5F (base 16) KitWorks.fi Ltd.
Snowpolis
Vuokatti Kainuu 88610
FI

00-1A-72 (hex) Mosart Semiconductor Corp.
001A72 (base 16) Mosart Semiconductor Corp.
23F., No.33, Sec.1,
Taipei 220
TW

00-1A-68 (hex) Weltec Enterprise Co., Ltd.
001A68 (base 16) Weltec Enterprise Co., Ltd.
2F,
No. 351 Yung Ho Rd.
Chung Ho 235
TW

00-1A-48 (hex) Takacom Corporation
001A48 (base 16) Takacom Corporation
304-709 Aza-Nishiyanma
Toki-shi Gifu-ken 509-5202
JP

00-1A-21 (hex) Brookhuis Applied Technologies BV
001A21 (base 16) Brookhuis Applied Technologies BV
PO Box 79
Enschede NL-7500
NL

00-1A-0B (hex) BONA TECHNOLOGY INC.
001A0B (base 16) BONA TECHNOLOGY INC.
4F, E-Place Bldg., 719-24
Seoul 135-080
KR

00-1A-06 (hex) OpVista, Inc.
001A06 (base 16) OpVista, Inc.
870 North McCarthy Blvd.
Milpitas California 95035
US

00-1A-5D (hex) Mobinnova Corp.
001A5D (base 16) Mobinnova Corp.
11F, 845, CHUNG SHAN RD
TAOYUAN 33059
TW

00-19-93 (hex) Changshu Switchgear MFG. Co.,Ltd. (Former Changshu Switchgea
001993 (base 16) Changshu Switchgear MFG. Co.,Ltd. (Former Changshu Switchgea
No. 8 Jianye Road
Changshu Jiangsu 215500
CN

00-19-9B (hex) Diversified
Technical Systems, Inc.
00199B (base 16) Diversified Technical Systems, Inc.
909 Electric Avenue
Seal Beach California 90740
US

00-19-FA (hex) Cable Vision Electronics CO., LTD.
0019FA (base 16) Cable Vision Electronics CO., LTD.
12F-3, No.16, Chien Pa Rd.
Chung Ho City Taipei Hsien 235
TW

00-19-F1 (hex) Star Communication Network Technology Co.,Ltd
0019F1 (base 16) Star Communication Network Technology Co.,Ltd
10/F,Tower B,SOHO New Town,No.88 jianguoRoad,Chaoyang District
Beijing 100022
CN

00-19-EC (hex) Sagamore Systems, Inc.
0019EC (base 16) Sagamore Systems, Inc.
55 Middlesex Street
North Chelmsford MA 01863
US

00-19-A3 (hex) asteel electronique atlantique
0019A3 (base 16) asteel electronique atlantique
za de la lande de saint jean
sainte marie de redon 35600
FR

00-19-AD (hex) BOBST SA
0019AD (base 16) BOBST SA
rte des flumeaux 50
PRILLY VD 1008
CH

00-19-A2
(hex) ORDYN TECHNOLOGIES
0019A2 (base 16) ORDYN TECHNOLOGIES
Ozone Manay Tech Park,
Bangalore 560 068

IN

00-19-A5 (hex) RadarFind Corporation
0019A5 (base 16) RadarFind Corporation
2100 Gateway Centre Blvd., Suite 150
Morrisville NC 27560
US

00-19-C4 (hex) Infocrypt Inc.
0019C4 (base 16) Infocrypt Inc.
711, BYUCKSAN DIGITAL VALLEY 1 212-16,
Seoul 152-050
KR

00-19-BC (hex) ELECTRO CHANCE SRL
0019BC (base 16) ELECTRO CHANCE SRL
CARHUE 3179
CAPITAL FEDERAL BUENOS AIRES 1440
AR

00-19-D5 (hex) IP Innovations, Inc.
0019D5 (base 16) IP Innovations, Inc.
1517 146th Ave
Dorr MI 49323
US

00-19-CC (hex) RCG (HK) Ltd
0019CC (base 16) RCG (HK) Ltd
9/F., Core C, Cyberport 3

HK

00-19-C8 (hex) AnyDATA Corporation
0019C8 (base 16) AnyDATA Corporation
18902 Bardeen Ave.
Irvine CA 91612
US

00-19-81 (hex) Vivox Inc
001981
(base 16) Vivox Inc
40 Speen Street
Framingham MA 01701
US

00-19-EA (hex) TeraMage Technologies Co., Ltd.
0019EA (base 16) TeraMage Technologies Co., Ltd.
Golden Land Building Suite 907

Beijing 100016
CN

00-19-D8 (hex) MAXFOR
0019D8 (base 16) MAXFOR
#E 809, Bundang, Techno-Park
Seongnam-City Gyeonggi-Do 463-760
KR

00-1A-00 (hex) MATRIX INC.
001A00 (base 16) MATRIX INC.
AS bld.3-13-20
Osaka 530-0047
JP

00-19-FF (hex) Finnzymes
0019FF (base 16) Finnzymes
800 West Cummings Park
Woburn MA 01801
US

00-19-90 (hex) ELM DATA Co., Ltd.
001990 (base 16) ELM DATA Co., Ltd.
2-15 TECHNO-PARK 1-CHOME
SAPPORO HOKKAIDO 004-0015
JP

00-19-8F (hex) Nokia Bell N.V.
00198F (base 16) Nokia Bell N.V.
Copernicuslaan 50
Antwerp B-2018
BE

00-19-29 (hex) 2M2B Montadora de Maquinas Bahia Brasil LTDA
001929 (base 16) 2M2B Montadora de Maquinas
Bahia Brasil LTDA
Rua Djalma dutra, 668, Sete Portas
Salvador Bahia 40240080
BR

00-19-2A (hex) Antiope Associates
00192A (base 16) Antiope Associates
18 Clay Street
Fair Haven New Jersey 07704
US

00-19-0F (hex) Advansus Corp.
00190F (base 16) Advansus Corp.

No.5 Shing Yeh Street, Kwei Hsiang
Taoyuan 333
TW

00-19-11 (hex) Just In Mobile Information Technologies (Shanghai) Co., Ltd.
001911 (base 16) Just In Mobile Information Technologies (Shanghai) Co., Ltd.
5th Floor, 2nd Area, Haiwangxing Building, 62 Xingguang Ave., N.High-Tech Park
Chongqing 401121
CN

00-19-17 (hex) Posiflex Inc.
001917 (base 16) Posiflex Inc.
6, Wu-Chuan Road
Taipei Hsien 248
TW

00-19-6E (hex) Metacom (Pty) Ltd.
00196E (base 16) Metacom (Pty) Ltd.
6 Ndabeni Business Park
Cape Town Western Cape 7405
ZA

00-19-65 (hex) YuHua TelTech (ShangHai) Co., Ltd.
001965 (base 16) YuHua TelTech
(ShangHai) Co., Ltd.
YuHua R&D Building,27 xin jin qiao road,
SHANGHAI 201206
CN

00-19-66 (hex) Asiarock Technology Limited
001966 (base 16) Asiarock Technology Limited
P.O. Box957, Offshore Incorporations Centre
Road Town Tortola
VG

00-19-2E (hex) Spectral Instruments, Inc.
00192E (base 16) Spectral Instruments, Inc.
420 N Bonita Ave
Tucson AZ 85745
US

00-19-2B (hex) Aclara RF Systems Inc.
00192B (base 16) Aclara RF Systems Inc.
30400 Solon Road
Solon OH 44139
US

00-19-1E (hex) Beyondwiz Co., Ltd.

00191E (base 16) Beyondwiz Co., Ltd.
3F, Daechang Bldg.,
Sungnam Kyungki-do 463-825
KR

00-19-1F (hex) Microlink communications Inc.
00191F (base 16) Microlink communications Inc.
8F , 31 , Hsintai Road , Chupei City , Hsinchu
Chupei Taiwan 302
TW

00-19-20 (hex) KUME electric Co.,Ltd.
001920 (base 16) KUME electric Co.,Ltd.
4-2-24 Kitakawara
Itami-city
Hyougo
JP

00-19-26 (hex) BitsGen Co., Ltd.
001926 (base 16) BitsGen Co., Ltd.
#502, Owner's Tower, #16-5, Sunea-dong
Bundang-gu Seongnam-si 463-825
KR

00-19-18 (hex) Interactive Wear AG
001918 (base 16) Interactive Wear AG
Petersbrunner Strasse 3
Starnberg Bayern 82319
DE

00-19-0B (hex) Southern Vision Systems, Inc.
00190B (base 16) Southern Vision Systems, Inc.
8215 Madison Blvd, Suite 150
Madison AL 35758
US

00-19-03 (hex) Bigfoot Networks Inc
001903 (base 16) Bigfoot Networks Inc
3925 West Braker Lane
Austin TX 78759
US

00-19-73 (hex) Zeugma Systems
001973 (base 16) Zeugma Systems
Suite 250
Richmond BC V6V 2R2
CA

00-19-75 (hex) Beijing Huisen networks technology Inc
001975 (base 16) Beijing Huisen networks technology Inc
Jia#2 of Xili of Baiyun road,Xicheng district
Beijing 100045
CN

00-19-7B (hex) Picotest Corp.
00197B
(base 16) Picotest Corp.
8F-1, 286-9, Hsin-Ya Rd., 80673
Kaohsiung 80673
TW

00-19-43 (hex) Belden
001943 (base 16) Belden
793 Fort Mill Highway
Fort Mill South Carolina 29715
US

00-19-40 (hex) Rackable Systems
001940 (base 16) Rackable Systems
1933 Milmont Drive
Milpitas CA 95035
US

00-19-3C (hex) HighPoint Technologies Incorporated
00193C (base 16) HighPoint Technologies Incorporated
1161 Cadillac Court
Milpitas CA 95035
US

00-19-00 (hex) Intelliverese - DBA Voicecom
001900 (base 16) Intelliverese - DBA Voicecom
5900 Windward Parkway
Alpharetta Georgia 30005
US

00-19-02 (hex) Cambridge Consultants Ltd
001902 (base 16) Cambridge Consultants Ltd
Science Park
Cambridge Cambs CB4 0DW
GB

00-19-45 (hex) RF COncepts, LLC
001945 (base 16) RF COncepts, LLC
1148 Wagner Drive
Sevierville TN 37862
US

00-19-48 (hex) AireSpider Networks
001948
(base 16) AireSpider Networks
1171 Montague Express Way
Milpitas CA 95035
US

00-19-5C (hex) Innotech Corporation
00195C (base 16) Innotech Corporation
3-17-6
Yokohama Kanagawa 222-8580
JP

00-19-5F (hex) Valemount Networks Corporation
00195F (base 16) Valemount Networks Corporation
1201- 5th Ave
Valemount BC V0E2Z0
CA

00-18-F1 (hex) Chunichi Denshi Co.,LTD.
0018F1 (base 16) Chunichi Denshi Co.,LTD.
1 Denjiyama
Nagoya Aichi 458-8525
JP

00-18-F2 (hex) Beijing Tianyu Communication Equipment Co., Ltd
0018F2 (base 16) Beijing Tianyu Communication Equipment Co., Ltd
27th Floor, Tengda Plaza
Beijing 100044
CN

00-18-EC (hex) Welding Technology Corporation
0018EC (base 16) Welding Technology Corporation
24775 Crestview Court
Farmington Hills MI 48335
US

00-18-ED (hex) Accutech Ultrasystems Co., Ltd.
0018ED (base 16) Accutech Ultrasystems Co., Ltd.
11F-4,
No. 150,
CHUNG-HO CITY, TAIPEI HSIEN, 235
TW

00-18-94 (hex) NPCore, Inc.
001894 (base 16) NPCore, Inc.
1001, ISBIZ Tower

Youngdungpo Gu Seoul 150-105
KR

00-18-98 (hex) KINGSTATE ELECTRONICS CORPORATION
001898 (base 16) KINGSTATE ELECTRONICS CORPORATION
10F, No.69-11, Sec.2, Chung Cheng E. Rd.,
Taipei County 251
TW

00-18-92 (hex) ads-tec GmbH
001892 (base 16) ads-tec GmbH
Raiffeisenstrasse 14
Leinfelden-Echterdingen BW 70771
DE

00-18-91 (hex) Zhongshan General K-mate Electronics Co., Ltd
001891 (base 16) Zhongshan General K-mate Electronics Co., Ltd
3/F B1 Building, Fuwan Ind. Zone Sun Wen East Road
Zhongshan Guangdong 528403
CN

00-18-89 (hex) WinNet Solutions Limited
001889 (base 16) WinNet Solutions Limited
Rm804, Kornhill Metro Tower, Quarry Bay
HK 852
HK

00-18-B2 (hex) ADEUNIS RF
0018B2 (base 16) ADEUNIS RF
283 Rue NEEL
CROLLES ISERE
38920
FR

00-18-B3 (hex) TEC WizHome Co., Ltd.
0018B3 (base 16) TEC WizHome Co., Ltd.
18fl., In-Song bldg., 194-15,
Seoul 100-952
KR

00-18-AC (hex) Shanghai Jiao Da HISYS Technology Co. Ltd.
0018AC (base 16) Shanghai Jiao Da HISYS Technology Co. Ltd.
7F Haoran HiTech Bldg., No.1954 Huashan Road
shanghai xuhui 200030
US

00-18-AB (hex) BEIJING LHWT MICROELECTRONICS INC.
0018AB (base 16) BEIJING LHWT MICROELECTRONICS INC.

18/F,QUANTUM PLAZA,NO.27 ZHI CHUN RD.,HAI DIAN DISTRICT,BEIJING

CN

00-18-A5 (hex) ADigit Technologies Corp.
0018A5 (base 16) ADigit Technologies Corp.
Rm D302E,No.185 3F-2,Kur-Wong Road,
Tao-yuan, 325
TW

00-18-E0 (hex) ANAVEO
0018E0 (base 16) ANAVEO
Les Carrés du parc
CHAMPAGNE au MONT D'OR Rhône F-69410
FR

00-18-CE (hex) Dreamtech Co., Ltd
0018CE (base 16) Dreamtech Co., Ltd
#340-5, Yang-dang Ri, Jik-san Myeon
Cheon-an si Chung-Nam
330810
KR

00-18-A6 (hex) Persistent Systems, LLC
0018A6 (base 16) Persistent Systems, LLC
118 N. Howard St. #72
Baltimore MD 21201
US

00-18-9B (hex) Thomson Inc.
00189B (base 16) Thomson Inc.
101 West 103rd Street
Indianapolis IN 46290-1102
US

00-18-6B (hex) Sambu Communics CO., LTD.
00186B (base 16) Sambu Communics CO., LTD.
38B-1L Namdong Industrial Complex
Incheon 405-100
KR

00-18-77 (hex) Amplex A/S
001877 (base 16) Amplex A/S
Silkeborgvej 2
Aarhus C 8000
DK

00-18-67 (hex) Datalogic ADC

001867 (base 16) Datalogic ADC
433 N. Fair Oaks Ave
Pasadena CA 91103
US

00-18-BD (hex) SHENZHEN DVBWORLD TECHNOLOGY CO., LTD.
0018BD (base 16) SHENZHEN DVBWORLD TECHNOLOGY CO., LTD.
2ND FLOOR, BUILDING A, QINGHU XINQIAO INDUSTRY AREA,
SHENZHEN GUANGDONG 518000
CN

00-18-6A (hex) Global Link Digital Technology Co,.LTD
00186A (base 16) Global Link
Digital Technology Co,.LTD
Qibaoyiding Ind.Area
Dongguan Guangdong 523051
CN

00-18-78 (hex) Mackware GmbH
001878 (base 16) Mackware GmbH
Schänzle 13
Waiblingen Baden-Württemberg 71332
DE

00-18-6E (hex) 3Com Ltd
00186E (base 16) 3Com Ltd
Peoplebuilding 2
Hemel Hempstead Herts HP2 4NW
GB

00-18-CB (hex) Tecobest Technology Limited
0018CB (base 16) Tecobest Technology Limited
53/F.,Block A,United Plaza,
Shenzhen Guangdong 518026
CN

00-18-43 (hex) Dawevision Ltd
001843 (base 16) Dawevision Ltd
197 High Street
Cottenham Cambridge CB4 8RX
GB

00-18-2C (hex) Ascend Networks, Inc.
00182C (base 16) Ascend Networks, Inc.
No. 4 - 4, Lane 413, ChungChan Road,
BenQuao City Taipei 220
TW

00-18-36 (hex) REJ Co.,Ltd
001836 (base 16) REJ Co.,Ltd
2-3-2 Fukuura, Kanazawa-ku
Yokohama Kanagawa 236-8641
JP

00-17-ED (hex) WooJooIT Ltd.
0017ED (base 16) WooJooIT
Ltd.
Hankooktire B/D 4th floor, 501-19,
Yangcheon-gu, Seoul 158-839
KR

00-17-DD (hex) Clipsal Australia
0017DD (base 16) Clipsal Australia
33-37 Port Wakefield Rd
Gepps Cross South Australia 5094
AU

00-17-D9 (hex) AAI Corporation
0017D9 (base 16) AAI Corporation
P.O. Box 126
Hunt Valley Maryland 21030
US

00-17-DC (hex) DAEMYUNG ZERO1
0017DC (base 16) DAEMYUNG ZERO1
#809,Hyosung Intellian
Anyang-si Gyeonggi-do 431-060
KR

00-17-F9 (hex) Forcom Sp. z o.o.
0017F9 (base 16) Forcom Sp. z o.o.
Gajowa 6
Poznan WLKP 60-815
PL

00-17-F4 (hex) ZERON ALLIANCE
0017F4 (base 16) ZERON ALLIANCE
3F DOORI BUILD. 244-14 bunji, Poi-dong, Gangnam-gu
SEOUL 135-965
KR

00-17-F7 (hex) CEM Solutions Pvt Ltd
0017F7 (base 16) CEM Solutions Pvt Ltd
49,Kanija Bhavan
Bangalore Karnataka 560 001
IN

00-18-1D (hex) ASIA ELECTRONICS CO.,LTD
00181D (base
16) ASIA ELECTRONICS CO.,LTD
620-3 DOCHEON-DONG
GWANGJU 506-301
KR

00-18-1F (hex) Palmmicro Communications
00181F (base 16) Palmmicro Communications
Room 0611, Bldg.B Tsinghua Tongfang Technology Plaza
Beijing 100083
CN

00-18-1B (hex) TaiJin Metal Co., Ltd.
00181B (base 16) TaiJin Metal Co., Ltd.
#95-9, Hangdong7-Ga, Joong-Gu
In Cheon 400-037
KR

00-18-65 (hex) Siemens Healthcare Diagnostics Manufacturing Ltd
001865 (base 16) Siemens Healthcare Diagnostics Manufacturing Ltd
Northern Road
Sudbury Suffolk C010 2XQ
GB

00-18-05 (hex) Beijing InHand Networking Technology Co.,Ltd.
001805 (base 16) Beijing InHand Networking Technology Co.,Ltd.
West Wing 11th Floor of Qiming International Mansion
Beijing 100085
CN

00-18-54 (hex) Argard Co., Ltd
001854 (base 16) Argard Co., Ltd
2571 Lardprao Rd.
wangthonglang Bangkok 10310
TH

00-18-47 (hex) AceNet Technology
Inc.
001847 (base 16) AceNet Technology Inc.
133 Vienna Dr.
Milpitas CA 95035
US

00-18-0D (hex) Terabytes Server Storage Tech Corp
00180D (base 16) Terabytes Server Storage Tech Corp
14257 E Don Julian Rd

City of Industry CA 91746
US

00-17-C4 (hex) Quanta Microsystems, INC.
0017C4 (base 16) Quanta Microsystems, INC.
188 Wenhwa 2nd RD., Kueishan Hsiang
Taoyuan Shien 333
TW

00-17-BD (hex) Tibetsystem
0017BD (base 16) Tibetsystem
6F IT Castle II 550-1 Gasan-dong
Seoul Geumcheon-gu 153-803
KR

00-17-BF (hex) Coherent Research Limited
0017BF (base 16) Coherent Research Limited
8 Princess Mews
Kingston upon Thames Surrey KT1 2SZ
GB

00-17-9E (hex) Sirit Inc
00179E (base 16) Sirit Inc
2525 Meridian Parkway
Durham NC 27713
US

00-17-A7 (hex) Mobile Computing Promotion Consortium
0017A7 (base 16) Mobile Computing Promotion Consortium
3-5-12 Shiba-Koen
Tokyo
105-0011
JP

00-17-9F (hex) Apricorn
00179F (base 16) Apricorn
12191 Kirkham RD
Poway California 92064
US

00-17-A1 (hex) 3soft inc.
0017A1 (base 16) 3soft inc.
shinyoung bldg 4f, chungdam-dong, gangnam-gu
seoul 135-100
KR

00-17-58 (hex) ThruVision Ltd
001758 (base 16) ThruVision Ltd

Central 127, No.18
Abingdon Oxfordshire OX14 4SA
GB

00-17-4F (hex) iCatch Inc.
00174F (base 16) iCatch Inc.
10F-2, No. 109, Sec. 6, Mincyuan E. Rd.,
Taipei 114
TW

00-17-B4 (hex) Remote Security Systems, LLC
0017B4 (base 16) Remote Security Systems, LLC
4806 Upper Brandon Place
Marietta Georgia 30068
US

00-17-AC (hex) O'Neil Product Development Inc.
0017AC (base 16) O'Neil Product Development Inc.
8 Mason
Irvine CA 92618
US

00-17-AD (hex) AceNet Corporation
0017AD (base 16) AceNet Corporation
7F-4, No.146, Wen-Shin Road
Gueishan TAOYUAN

TW

00-17-88 (hex) Philips Lighting BV
001788 (base 16) Philips Lighting BV
High Tech Campus 45
Eindhoven Noord Brabant 5656 AE
NL

00-17-6F (hex) PAX Computer Technology(Shenzhen) Ltd.
00176F (base 16) PAX Computer Technology(Shenzhen) Ltd.
4/F, No.3 Building, Software Park, Second Central Science-Tech Road, High-Tech
Shenzhen GuangDong 518057
CN

00-17-66 (hex) Accense Technology, Inc.
001766 (base 16) Accense Technology, Inc.
35 Tansumachi
Shinjyuku-ku Tokyo 1620833
JP

00-17-64 (hex) ATMedia GmbH

001764 (base 16) ATMedia GmbH
Stuhlsatzenhausweg 69
Saarbruecken Saarland 66123
DE

00-17-5E (hex) Zed-3
00175E (base 16) Zed-3
501 Valley Way
Milpitas CA 95035
US

00-17-5B (hex) ACS Solutions Switzerland Ltd.
00175B (base 16) ACS Solutions Switzerland Ltd.
Frankenstrasse 70
Bern- Buempliz 3018
CH

00-17-92 (hex) Falcom Wireless Comunications Gmbh
001792
(base 16) Falcom Wireless Comunications Gmbh
Gewerbering 6
Langewiesen Thuringia 98704
DE

00-17-97 (hex) Telsy Elettronica S.p.A.
001797 (base 16) Telsy Elettronica S.p.A.
Corso Svizzera 185
Torino 10149
IT

00-17-8C (hex) Independent Witness, Inc
00178C (base 16) Independent Witness, Inc
1515 West 2200 South
Salt Lake City UT 84119
US

00-17-D3 (hex) Etymotic Research, Inc.
0017D3 (base 16) Etymotic Research, Inc.
61 Martin Lane
Elk Grove Village IL 60061
US

00-17-CC (hex) Alcatel-Lucent
0017CC (base 16) Alcatel-Lucent
601 Data Dr.
Plano TX 75075
US

00-17-71 (hex) APD Communications Ltd
001771 (base 16) APD Communications Ltd
Newlands Centre
HULL HU6 7TQ
GB

00-17-29 (hex) Ubicod Co.LTD
001729 (base 16) Ubicod Co.LTD
7F Chun-gin Bldg, 53-5 Wonhyo-ro
Seoul 140-719
KR

00-17-27 (hex) Thermo Ramsey Italia s.r.l.
001727
(base 16) Thermo Ramsey Italia s.r.l.
Strada Rivoltana km 6/7
Rodano Milano 20090
IT

00-17-2A (hex) Proware Technology Corp.(By Unifosa)
00172A (base 16) Proware Technology Corp.(By Unifosa)
6Fl., No. 4, Alley 1, Lane 235, PaoChao Rd., Sindian Dist.,
New Taipei City 231
TW

00-17-25 (hex) Liquid Computing
001725 (base 16) Liquid Computing
340 Terry Fox Drive
Ottawa Ontario K2K 3A2
CA

00-17-3C (hex) Extreme Engineering Solutions
00173C (base 16) Extreme Engineering Solutions
7878 Big Sky Drive
Madison WI 53719
US

00-17-36 (hex) iiTron Inc.
001736 (base 16) iiTron Inc.
88 Mercy St.
Mountain View CA 94041
US

00-17-37 (hex) Industrie Dial Face S.p.A.
001737 (base 16) Industrie Dial Face S.p.A.
via Canzo, 4
Peschiera Borromeo Milano 20068
IT

00-17-33 (hex) SFR
001733 (base 16) SFR
42 Quai du point du jour
Boulogne Billancourt Hauts de Seine 92659
FR

00-17-4A
(hex) SOCOMEC
00174A (base 16) SOCOMEC
rue de Westhouse
BENFELD CEDEX 67235
FR

00-17-4E (hex) Parama-tech Co.,Ltd.
00174E (base 16) Parama-tech Co.,Ltd.
2-19-8, Sharyo, Higashi-ku
Fukuoka 812-0068
JP

00-16-F8 (hex) AVIQTECH TECHNOLOGY CO., LTD.
0016F8 (base 16) AVIQTECH TECHNOLOGY CO., LTD.
6F 12, Li-hsin Road, SBIP
Hsin-chu 300
TW

00-16-E8 (hex) Lumissil Microsystems
0016E8 (base 16) Lumissil Microsystems
1623 Buckeye Dr.
Milpitas CA 95035
US

00-16-E9 (hex) Tiba Medical Inc
0016E9 (base 16) Tiba Medical Inc
5024 Lakewood Drive
Plano TX 75093
US

00-17-14 (hex) BR Controls Nederland bv
001714 (base 16) BR Controls Nederland bv
Branderweg 1
Zwolle Overijssel 8042 PD
NL

00-17-1B (hex) Innovation Lab Corp.
00171B (base 16) Innovation Lab Corp.
12FL., No. 285, Sec. 2, TiDing Blvd.,
Taipei 11493

TW

00-17-09
(hex) Exalt Communications
001709 (base 16) Exalt Communications
580 Division Street
Campbell CA 95008
US

00-17-03 (hex) MOSDAN Internation Co.,Ltd
001703 (base 16) MOSDAN Internation Co.,Ltd
No.216 Xiwei,Shanhua Dist,
Tainan 741
TW

00-16-FC (hex) TOHKEN CO.,LTD.
0016FC (base 16) TOHKEN CO.,LTD.
2-16-20 Tamagawa
Chofu Tokyo 182-0025
JP

00-16-F0 (hex) Dell
0016F0 (base 16) Dell
909 Hermosa Ct
Sunnyvale CA 94085
US

00-16-A9 (hex) 2EI
0016A9 (base 16) 2EI
Rua dos Rubis, 77 - Assumpcao
Aguas de Lindoia São Paulo 13940-000
BR

00-16-B0 (hex) VK Corporation
0016B0 (base 16) VK Corporation
VK B/D, 548-6, Anyang 8dong, Manan-gu
Anyang Kyounggi 430-8903
KR

00-16-B1 (hex) KBS
0016B1 (base 16) KBS
88 rue Pierre Sémard
Moissy cedex Ile de France 77552
FR

00-16-AE (hex) INVENTEL
0016AE (base 16) INVENTEL
35 rue Tournefort

PARIS
75005
FR

00-16-8C (hex) DSL Partner AS
00168C (base 16) DSL Partner AS
Havreveien 49
Oslo 0680
NO

00-16-83 (hex) WEBIO International Co.,.Ltd.
001683 (base 16) WEBIO International Co.,.Ltd.
21F.,No.171 Songde Rd.,Sinyi District
Taipei 11085
TW

00-16-84 (hex) Donjin Co.,Ltd.
001684 (base 16) Donjin Co.,Ltd.
21F,Cangsong Building,Tairan,Futian
Shenzhen Guangdong 518040
CN

00-16-87 (hex) Chubb CSC-Vendor AP
001687 (base 16) Chubb CSC-Vendor AP
Ottawa STN
Ottawa K1G 6W6
CA

00-16-D0 (hex) ATech elektronika d.o.o.
0016D0 (base 16) ATech elektronika d.o.o.
Bac pri Materiji 30
Materija SI 6242
SI

00-16-C3 (hex) BA Systems Inc
0016C3 (base 16) BA Systems Inc
6895 Via Del Oro
San Jose CA 95119
US

00-16-7F (hex) Bluebird Soft Inc.
00167F (base 16) Bluebird Soft Inc.
562-21 Gangnam-gu,
Seoul 135-890
KR

00-16-7C (hex) iRex

Technologies BV
00167C (base 16) iRex Technologies BV
HighTech Campus
Eindhoven Brabant 5656AE
NL

00-16-73 (hex) Bury GmbH & Co. KG
001673 (base 16) Bury GmbH & Co. KG
Robert-Koch-Str. 1-7
Loehne Germany 32584
DE

00-16-C1 (hex) Eleksen Ltd
0016C1 (base 16) Eleksen Ltd
Pinewood Studios
Iver Bucks SL0 0NH
US

00-16-AC (hex) Toho Technology Corp.
0016AC (base 16) Toho Technology Corp.
HIGASHI 5-1
INAZAWA-CITY AICHI 492-8501
JP

00-16-9C (hex) Cisco Systems, Inc
00169C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-16-DC (hex) ARCHOS
0016DC (base 16) ARCHOS
12 rue AMPERE
IGNY ESSONNES 91430
FR

00-16-94 (hex) Sennheiser Communications A/S
001694 (base 16) Sennheiser Communications A/S
Langager 6
Solrød Strand Copenhagen 2680
DK

00-16-18 (hex) HIVION Co., Ltd.
001618 (base 16) HIVION Co., Ltd.
2F.,
Akyung Bldg., 54-10, Munjeong-dong,
Songpa-Gu Seoul
KR

00-16-1E (hex) Woojinnet
00161E (base 16) Woojinnet
292 osan dongtan
hwaseong kyonggi 445-813
KR

00-16-1F (hex) SUNWAVETEC Co., Ltd.
00161F (base 16) SUNWAVETEC Co., Ltd.
#823, Kwanyang-dong, Dongan-ku
Anyang-si Kyungki-do 431-060
US

00-16-14 (hex) Picosecond Pulse Labs
001614 (base 16) Picosecond Pulse Labs
2500 55th Street
Boulder CO 80301
US

00-16-0E (hex) Optica Technologies Inc.
00160E (base 16) Optica Technologies Inc.
2051 Dogwood Street
Louisville CO 80027
US

00-16-43 (hex) Sunhillo Corporation
001643 (base 16) Sunhillo Corporation
444 Kelley Drive
West Berlin New Jersey 08091
US

00-16-44 (hex) LITE-ON Technology Corp.
001644 (base 16) LITE-ON Technology Corp.
18F, No.392, Ruey Kuang Road, Niehu,
Taipei 114
TW

00-16-3E (hex) Xensource, Inc.
00163E (base 16) Xensource,
Inc.
2300 Geng Rd.
Palo Alto CA 94303
US

00-16-34 (hex) Mathtech, Inc.
001634 (base 16) Mathtech, Inc.
6402 Arlington Blvd.,
Falls Church Virginia 22042-2356

US

00-16-2C (hex) Xanboo
00162C (base 16) Xanboo
115 West 30th, 6th Fl
New York NY 10001
US

00-16-4C (hex) PLANET INT Co., Ltd
00164C (base 16) PLANET INT Co., Ltd
8th Floor, Saeum B/D, 1361-5
Seoul 137-070
KR

00-16-49 (hex) SetOne GmbH
001649 (base 16) SetOne GmbH
Hegenheimer Str. 2
Weil am Rhein D-79576
DE

00-16-47 (hex) Cisco Systems, Inc
001647 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-15-FD (hex) Complete Media Systems
0015FD (base 16) Complete Media Systems
Grove Place
Warninglid West sussex RH17 5SN
GB

00-15-F6 (hex) SCIENCE AND ENGINEERING SERVICES, INC.
0015F6 (base 16) SCIENCE AND ENGINEERING SERVICES, INC.
4015 PULASKI PIKE
NW
HUNTSVILLE AL 35810
US

00-16-1B (hex) Micronet Corporation
00161B (base 16) Micronet Corporation
1788-388 Nomura Hirooka
Shiojiri-shi Nagano-ken 399-0702
JP

00-16-05 (hex) YORKVILLE SOUND INC.
001605 (base 16) YORKVILLE SOUND INC.
4625 WITMER INDUSTRIAL ESTATE

NIAGARA FALLS NY 14305
US

00-15-F9 (hex) Cisco Systems, Inc
0015F9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-16-5F (hex) Fairmount Automation
00165F (base 16) Fairmount Automation
4621 West Chester Pike
Newtown Square PA 19073
US

00-16-57 (hex) Aegate Ltd
001657 (base 16) Aegate Ltd
Technology Centre
Melbourn Hertfordshire SG8 6DP
GB

00-16-65 (hex) Cellon France
001665 (base 16) Cellon France
Route d'Angers Le Mans cedex 9
Le Mans Sarthe 72081
FR

00-15-D3 (hex) Pantech&Curitel Communications, Inc.
0015D3 (base 16) Pantech&Curitel Communications, Inc.
1451-34, Seocho-dong, Seocho-Gu
Seoul 137-070
KR

00-15-CA (hex) TeraRecon, Inc.
0015CA (base 16) TeraRecon, Inc.
2955 Campus Drive, Suite 325
San Mateo CA 94403
US

00-15-70 (hex) Zebra Technologies Inc
001570 (base 16) Zebra Technologies Inc
475 Half Day Road
Lincolnshire IL 60069
US

00-15-6E (hex) A. W. Communication Systems Ltd
00156E (base 16) A. W. Communication Systems Ltd

Crook Barn
Carlisle Cumbria CA6 6LH
GB

00-15-68 (hex) Dilithium Networks
001568 (base 16) Dilithium Networks
5401 Old Redwood Hwy
Petaluma CA 94954
US

00-15-5F (hex) GreenPeak Technologies
00155F (base 16) GreenPeak Technologies
Spinnerijstraat 14
Zele 9240
BE

00-15-AD (hex) Accedian Networks
0015AD (base 16) Accedian Networks
4878 Levy, suite 202
St-Laurent Quebec H9P 2V4
CA

00-15-AC (hex) Capelon AB
0015AC (base 16) Capelon AB
Jägerhorns
väg 1
Kungens Kurva Stockholm S-141 75
SE

00-15-A9 (hex) KWANG WOO I&C CO.,LTD
0015A9 (base 16) KWANG WOO I&C CO.,LTD
898-23, Hogye-dong,Dongan-gu
431-080
KR

00-E0-A8 (hex) SAT GmbH & Co.
00E0A8 (base 16) SAT GmbH & Co.
RUTHNERGASSE 1
VIENNA A-1210
AT

00-15-74 (hex) Horizon Semiconductors Ltd.
001574 (base 16) Horizon Semiconductors Ltd.
9 Hamenofim St.
Herzliya 46120
IL

00-15-F3 (hex) PELTOR AB

0015F3 (base 16) PELTOR AB
Box 2341
SE-331 02 Värnamo SE-331 02
SE

00-15-E7 (hex) Quantec Tontechnik
0015E7 (base 16) Quantec Tontechnik
Maenherstr. 35
München D-81375
DE

00-15-E3 (hex) Dream Technologies Corporation
0015E3 (base 16) Dream Technologies Corporation
Ebisu Prime Square, 1-1-39 Hiroo
Tokyo 150-0012
JP

00-15-E0 (hex) Ericsson
0015E0 (base 16) Ericsson
Nya Vattentornet
Lund SE-221 83
NO

00-15-98 (hex) Kolektor
group
001598 (base 16) Kolektor group
Vojkova 10
Idrija 5280
SI

00-15-8A (hex) SURECOM Technology Corp.
00158A (base 16) SURECOM Technology Corp.
6F, No. 125, Sec. 2, Datung Rd.
Shijr City, Taipei County 221
TW

00-15-8E (hex) Plustek.INC
00158E (base 16) Plustek.INC
13F-1,No3(Building F) Yuan Qu Street
Taipei Yuan Qu 115
TW

00-15-89 (hex) D-MAX Technology Co.,Ltd
001589 (base 16) D-MAX Technology Co.,Ltd
7F-6,NO.26,Lian Cheng RD.,Chung-Ho City
Taipei Hsien 235
US

00-15-B4 (hex) Polymap Wireless LLC
0015B4 (base 16) Polymap Wireless LLC
310 S. Williams Blvd. Ste. 350
Tucson AZ 85711
US

00-14-F4 (hex) DekTec Digital Video B.V.
0014F4 (base 16) DekTec Digital Video B.V.
Van Riebeeckweg 43A
Hilversum NH 1212AE
NL

00-14-F5 (hex) OSI Security Devices
0014F5 (base 16) OSI Security Devices
1580 Jayken Way
Chula Vista California
91911
US

00-14-EC (hex) Acro Telecom
0014EC (base 16) Acro Telecom
714 Woolim e-Biz Center 170-5 Guro-dong
Guro-Gu Seoul 152-769
KR

00-14-EB (hex) AwarePoint Corporation
0014EB (base 16) AwarePoint Corporation
8899 University Center Lane
San Diego CA 92122
US

00-15-4B (hex) Wonde Proud Technology Co., Ltd
00154B (base 16) Wonde Proud Technology Co., Ltd
21F., No.100, Sec.1, Shintai 5th Rd
Sijhih city Taipei County 221
TW

00-15-48 (hex) CUBE TECHNOLOGIES
001548 (base 16) CUBE TECHNOLOGIES
46 A CHEMIN DU MOULIN CARRON
69570 DARDILLY FRANCE
FR

00-15-3C (hex) Kprotech Co., Ltd.
00153C (base 16) Kprotech Co., Ltd.
2nd Floor, # 202, Myoung-ji e-Space II
An-yang City Gyeong-gi Do 430-817
KR

00-15-5A (hex) DAINIPPON PHARMACEUTICAL CO., LTD.
00155A (base 16) DAINIPPON PHARMACEUTICAL CO., LTD.
2-6-8, DOSHOMACHI, CHUO-KU
OSAKA CITY OSAKA PREF. 541-8524
JP

00-14-FF
(hex) Precise Automation, Inc.
0014FF (base 16) Precise Automation, Inc.
1402 Alexandra Blvd
Crystal Lake IL 60014
US

00-14-FA (hex) AsGa S.A.
0014FA (base 16) AsGa S.A.
Rod Roberto Moreira Km 04
Paulinia São Paulo 13140-000
BR

00-14-FB (hex) Technical Solutions Inc.
0014FB (base 16) Technical Solutions Inc.
101-7188 Progress Way
Delta BC V4G 1M6
CA

00-15-3A (hex) Shenzhen Syscan Technology Co.,Ltd.
00153A (base 16) Shenzhen Syscan Technology Co.,Ltd.
13F, Olympic Plaza,
Shenzhen Guangdong 518034
CN

00-15-32 (hex) Consumer Technologies Group, LLC
001532 (base 16) Consumer Technologies Group, LLC
801 Brookhollow
Efland NC 27243
US

00-15-0A (hex) Sonoa Systems, Inc
00150A (base 16) Sonoa Systems, Inc
3900 Freedom Circle
Santa Clara CA 95054
US

00-15-1D (hex) M2I CORPORATION
00151D (base 16) M2I CORPORATION
Kyonggi Venture Anyang

technical center, 13th Floor, 572-5, Anyang 8-Dong, Manan-Gu
Anyang-Shi Kyonggi-Do 430-731
KR

00-15-12 (hex) Zurich University of Applied Sciences
001512 (base 16) Zurich University of Applied Sciences
Technikumstrasse 9
Winterthur ZH CH-8401
CH

00-14-A9 (hex) Cisco Systems, Inc
0014A9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-14-9B (hex) Nokota Communications, LLC
00149B (base 16) Nokota Communications, LLC
200 Galleria Parkway
Atlanta Georgia 30339
US

00-14-A1 (hex) Synchronous Communication Corp
0014A1 (base 16) Synchronous Communication Corp
9 floor, No168, Rueiguang Road, Neihu District
Taipei 114
TW

00-14-9E (hex) UbONE Co., Ltd
00149E (base 16) UbONE Co., Ltd
Shinyoung B.D. 602, SeoHyeon2-Dong
Seongnam-si Gyeongg-do 463-824
KR

00-14-A2 (hex) Core Micro Systems Inc.
0014A2 (base 16) Core Micro Systems Inc.
Wacore
Kaname-cho Bldg. 9F, 11-2, Nakamaru-cho
Itabashi-ku Tokyo 173-0026
JP

00-14-AB (hex) Senhai Electronic Technology Co., Ltd.
0014AB (base 16) Senhai Electronic Technology Co., Ltd.
Rm.10A. 28/F.SEGPlaza Huaqiangbei Road
Shengzhen Guangdong 518031
CN

00-14-B0 (hex) Naeil Community

0014B0 (base 16) Naeil Community
#506 AceTwin Tower 1, Guro-Dong
Seoul Guro-Gu 152779
KR

00-14-AD (hex) Gassner Wiege- und Meßtechnik GmbH
0014AD (base 16) Gassner Wiege- und Meßtechnik GmbH
Münchner Bundesstraße
Salzburg A-5020
AT

00-14-AF (hex) Datasym POS Inc.
0014AF (base 16) Datasym POS Inc.
45 Dalkeith Drive
Brantford Ontario N3P1M1
CA

00-14-D2 (hex) Kyuden Technosystems Corporation
0014D2 (base 16) Kyuden Technosystems Corporation
4-19-18 SHIMIZU,MINAMI-KU
FUKUOKA 815-0031
JP

00-14-DC (hex) Communication System Design & Manufacturing (CSDM)
0014DC (base 16) Communication
System Design & Manufacturing (CSDM)
Postbus 181
Bussum NH 1400 AD
NL

00-14-CD (hex) DigitalZone Co., Ltd.
0014CD (base 16) DigitalZone Co., Ltd.
No. 1001 E&C VentureDreamTower2
Seoul 152-848
KR

00-14-C0 (hex) Symstream Technology Group Ltd
0014C0 (base 16) Symstream Technology Group Ltd
Level 1, 3 Chester Street
Oakleigh Victoria 3166
AU

00-14-C1 (hex) U.S. Robotics Corporation
0014C1 (base 16) U.S. Robotics Corporation
935 National Parkway
Schaumburg IL 60173-5157
US

00-14-C4 (hex) Vitelcom Mobile Technology
0014C4 (base 16) Vitelcom Mobile Technology
PTA, Avda, Juan López Peñalver, nº 7
Campanillas. Malaga.
ES

00-14-8E (hex) Tele Power Inc.
00148E (base 16) Tele Power Inc.
1-46-15#B1F
Nerima-ku Tokyo 176-0005
JP

00-14-8F (hex) Protronic (Far East) Ltd.
00148F (base 16) Protronic (Far East) Ltd.
Rm. 2504, Nanyang Plaza,
Kwun Tong Kowloon

HK

00-14-8C (hex) General Dynamics Mission Systems
00148C (base 16) General Dynamics Mission Systems
150 Rustcraft Road
Dedham MA 02026
US

00-14-81 (hex) Multilink Inc
001481 (base 16) Multilink Inc
580 Ternes Ave
Elyria OH 44035
US

00-14-7C (hex) 3Com Ltd
00147C (base 16) 3Com Ltd
Peoplebuilding 2
Hemel Hempstead Herts HP2 4NW
GB

00-14-64 (hex) Cryptosoft
001464 (base 16) Cryptosoft
Lermontova str, 3
Penza region 440026
RU

00-14-5E (hex) IBM Corp
00145E (base 16) IBM Corp
3039 E Cornwallis Road
Research Triangle Park NC 27709-2195
US

00-14-58 (hex) HS Automatic ApS
001458 (base 16) HS Automatic ApS
Bjerringbrovej 70
Rodovre 2610
DK

00-14-68 (hex) CelPlan International, Inc.
001468 (base 16) CelPlan International, Inc.
1920 Association Drive
Reston VA 20191
US

00-14-87 (hex) American Technology Integrators
001487
(base 16) American Technology Integrators
1358 Rosalia Ave
San Jose CA 95130
US

00-14-44 (hex) Grundfos Holding
001444 (base 16) Grundfos Holding
Poul Due Jensensvej 7
Bjerringbro DK8850
DK

00-14-37 (hex) GSTeletech Co.,Ltd.
001437 (base 16) GSTeletech Co.,Ltd.
1385-14, Juan-Dong, Nam-gu
Incheon 402-200
KR

00-13-F0 (hex) Wavefront Semiconductor
0013F0 (base 16) Wavefront Semiconductor
4746 44th Ave SW
Seattle WA 98116
US

00-13-EF (hex) Kingjon Digital Technology Co.,Ltd
0013EF (base 16) Kingjon Digital Technology Co.,Ltd
Room 827,Huanan Dianli Bulding,No.2050
Shenzhen GuangDong 518031
CN

00-13-EB (hex) Sysmaster Corporation
0013EB (base 16) Sysmaster Corporation
5801 Christie Ave.
Emeryville CA 94608

US

00-13-EC (hex) Netsnapper Technologies SARL
0013EC (base 16) Netsnapper Technologies SARL
2160 Century Park East 1806
Los Angeles
CA 90067-2236
US

00-14-31 (hex) PDL Electronics Ltd
001431 (base 16) PDL Electronics Ltd
81 Austin Street
Napier Hawkes Bay
NZ

00-14-2B (hex) Edata Communication Inc.
00142B (base 16) Edata Communication Inc.
2F-1, No. 872, Chung-Cheng Rd
Taipei Hsien 235
TW

00-14-2C (hex) Koncept International, Inc.
00142C (base 16) Koncept International, Inc.
2500 E Foothill Blvd. #407
Pasadena CA 91107
US

00-14-24 (hex) Merry Electrics CO., LTD.
001424 (base 16) Merry Electrics CO., LTD.
NO.22,23rd ROAD
TAICHUNG CITY 40850
TW

00-14-21 (hex) Total Wireless Technologies Pte. Ltd.
001421 (base 16) Total Wireless Technologies Pte. Ltd.
Blk 1003, Bukit Merah Central, #04-18
159836
SG

00-14-20 (hex) G-Links networking company
001420 (base 16) G-Links networking company
1FL. NO.15-49, MING DER SECOND ROAD,
Keelung 206
TW

00-14-18 (hex) C4Line
001418

(base 16) C4Line
1001 Hyundai Parisian,
Yangchun-Gu Seoul 158-050
KR

00-14-1B (hex) Cisco Systems, Inc
00141B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-14-0F (hex) Federal State Unitary Enterprise Leningrad R&D Institute of
00140F (base 16) Federal State Unitary Enterprise Leningrad R&D Institute of
11 Warshawskaya St.
St. Petersburg 196128
RU

00-14-07 (hex) Sperian Protection Instrumentation
001407 (base 16) Sperian Protection Instrumentation
651 South Main Street
Middletown CT 06457
US

00-14-06 (hex) Go Networks
001406 (base 16) Go Networks
126 Yigal Alon st.
Tel Aviv 67443
IL

00-14-0A (hex) WEPIO Co., Ltd.
00140A (base 16) WEPIO Co., Ltd.
#1125, Opus1, Gurodongcomplex building
Seoul 152-050
KR

00-13-D0 (hex) t+ Medical Ltd
0013D0 (base 16) t+ Medical Ltd
174E Milton Park
Abingdon OX14 4SE
GB

00-13-D2
(hex) PAGE IBERICA, S.A.
0013D2 (base 16) PAGE IBERICA, S.A.
AV. DE LA INDUSTRIA, 24
TRES CANTOS MADRID 28760
ES

00-13-D1 (hex) KIRK telecom A/S
0013D1 (base 16) KIRK telecom A/S
Langmarksvej 34
Horsens 8700
DK

00-14-4D (hex) Intelligent Systems
00144D (base 16) Intelligent Systems
11101 Johns Hopkins Road
Laurel MD 20723
US

00-14-4A (hex) Taiwan Thick-Film Ind. Corp.
00144A (base 16) Taiwan Thick-Film Ind. Corp.
NO.126,Wuu Gong 2nd RD,
Taipei Hsien 248
TW

00-14-45 (hex) Telefon-Gradnja d.o.o.
001445 (base 16) Telefon-Gradnja d.o.o.
Plesivicka 3
Sveta Nedelja Zupanija Zagrebacka 10431
HR

00-13-FA (hex) LifeSize Communications, Inc
0013FA (base 16) LifeSize Communications, Inc
901 S. Mopac
Austin TX 78746
US

00-13-FB (hex) RKC INSTRUMENT INC.
0013FB (base 16) RKC INSTRUMENT INC.
16-6, Kugahara 5-chome,
Ohta-ku Tokyo 146-8515
JP

00-13-6F
(hex) PacketMotion, Inc.
00136F (base 16) PacketMotion, Inc.
2121 El Camino Real
San Mateo CA 94403
US

00-13-66 (hex) Neturity Technologies Inc.
001366 (base 16) Neturity Technologies Inc.
830 Stewart Drive
Sunnyvale CA 94085
US

00-13-7D (hex) Dynalab, Inc.
00137D (base 16) Dynalab, Inc.
555 Lancaster Ave.
Reynoldsburg OH 43068
US

00-13-83 (hex) Application Technologies and Engineering Research Laboratory
001383 (base 16) Application Technologies and Engineering Research Laboratory
Shinjuku 1-chome Bldg.
Shinjuku-ku Tokyo 160-0022
JP

00-13-87 (hex) 27M Technologies AB
001387 (base 16) 27M Technologies AB
Diskettgatan 11
Linköping S-583 35
SE

00-13-73 (hex) BLwave Electronics Co., Ltd
001373 (base 16) BLwave Electronics Co., Ltd
23FGH, Block A,ZhenYe Building , BaoAn Nan Road , LuoHu , Shenzhen , China
ShenZhen GuangDong 518000
CN

00-13-5B
(hex) PanelLink Cinema, LLC
00135B (base 16) PanelLink Cinema, LLC
1070 E Arques Ave
Sunnyvale CA 94085
US

00-13-5E (hex) EAB/RWI/K
00135E (base 16) EAB/RWI/K
Färögatan 6
Stockholm Kista 164 80
SE

00-13-4E (hex) Valox Systems, Inc.
00134E (base 16) Valox Systems, Inc.
#704, Ace Twin tower 2, 212-30, Guro-3dong, Guro-gu
Seoul 152-779
KR

00-13-C3 (hex) Cisco Systems, Inc
0013C3 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568

US

00-13-BD (hex) HYMATOM SA
0013BD (base 16) HYMATOM SA
Zone Industrielle
VENDARGUES HERAULT 34740
FR

00-13-BA (hex) ReadyLinks Inc
0013BA (base 16) ReadyLinks Inc
6595 Edenvale Boulevard
Eden Prairie MN 55346
US

00-13-97 (hex) Oracle Corporation
001397 (base 16) Oracle Corporation
500 Oracle Parkway
Redwood Shores CA 94065
US

00-13-36 (hex) Tianjin 712 Communication Broadcasting
co., ltd.
001336 (base 16) Tianjin 712 Communication Broadcasting co., ltd.
No.185, Xinda Road, Hebei District
Tianjin 300140
CN

00-13-B8 (hex) RyCo Electronic Systems Limited
0013B8 (base 16) RyCo Electronic Systems Limited
Unit E, Cartel Business Estate
Harlow Essex CM20 2TT
GB

00-13-B6 (hex) Sling Media, Inc.
0013B6 (base 16) Sling Media, Inc.
1840 Gateway Center
San Mateo CA 94404
US

00-13-B4 (hex) Appear AS
0013B4 (base 16) Appear AS
P.O. Box 8 Lilleaker
Oslo NO-0216
NO

00-13-AE (hex) Radiance Technologies, Inc.
0013AE (base 16) Radiance Technologies, Inc.
350 Wynn Dr.

Huntsville Alabama 35805
US

00-13-44 (hex) Fargo Electronics Inc.
001344 (base 16) Fargo Electronics Inc.
6533 Flying Cloud Drive
Eden Prairie MN 55344
US

00-13-48 (hex) Artila Electronics Co., Ltd.
001348 (base 16) Artila Electronics Co., Ltd.
2F., No.1, Alley 8,
Siwei Lane, Zhongzheng Rd.,
Xindian City Taipei County 231
TW

00-12-D6 (hex) Jiangsu Yitong High-Tech Co.,Ltd
0012D6 (base 16) Jiangsu Yitong High-Tech Co.,Ltd
No 216 Huanghe Road
Changshu Jiangsu 215500
CN

00-12-DA (hex) Cisco Systems, Inc
0012DA (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-12-D3 (hex) Zetta Systems, Inc.
0012D3 (base 16) Zetta Systems, Inc.
17311 135th AVE NE
Woodinville WA 98072
US

00-12-D5 (hex) Motion Reality Inc.
0012D5 (base 16) Motion Reality Inc.
200 North Cobb Parkway
Marietta GA 30062
US

00-12-D8 (hex) International Games System Co., Ltd.
0012D8 (base 16) International Games System Co., Ltd.
No.130, Wu-Gung Rd., Wu-Gu Industrial Park,
Taipei 248
TW

00-13-14 (hex) Asiamajor Inc.
001314 (base 16) Asiamajor Inc.

6F-9, No. 268, Lian-Cheng Rd., Junghe City,
Taipei 235
TW

00-13-16 (hex) L-S-B
Broadcast Technologies GmbH
001316 (base 16) L-S-B Broadcast Technologies GmbH
Gustav-Stresemann-Str. 8
Bingen Rheinland-Pfalz 55411
DE

00-13-12 (hex) Amedia Networks Inc.
001312 (base 16) Amedia Networks Inc.
101 Crawfords Corner Rd
Holmdel NJ 07733
US

00-12-E6 (hex) SPECTEC COMPUTER CO., LTD.
0012E6 (base 16) SPECTEC COMPUTER CO., LTD.
6F., No. 92, Nanking E. Rd. Sec. 5,
Taipei 105
TW

00-12-E3 (hex) Agat Soft LLC
0012E3 (base 16) Agat Soft LLC
building 14, stroenie 15, room 7
Moscow Serebryakova proezd 129343
RU

00-12-DB (hex) ZIEHL industrie-elektronik GmbH + Co KG
0012DB (base 16) ZIEHL industrie-elektronik GmbH + Co KG
Daimlerstraße 13
Schwäbisch Hall 74523
DE

00-13-00 (hex) IT-FACTORY, INC.
001300 (base 16) IT-FACTORY, INC.
1-16-26 TAKAGI MINAMI-KU
FUKUOKA-SHI FUKUOKA-KEN 815-0004
JP

00-12-EF (hex) OneAccess SA
0012EF (base 16) OneAccess
SA
28 rue de la Redoute
Fontenay aux Roses 92260
FR

00-12-E9 (hex) Abbey Systems Ltd
0012E9 (base 16) Abbey Systems Ltd
Level 4, 220 Willis St
Wellington 6030
NZ

00-13-22 (hex) DAQ Electronics, Inc.
001322 (base 16) DAQ Electronics, Inc.
262B Old New Brunswick Road
Piscataway NJ 08854
US

00-13-23 (hex) Cap Co., Ltd.
001323 (base 16) Cap Co., Ltd.
11F,684-2,deungchon 3-dong,gangseo-gu
Seoul 157-754
KR

00-12-A2 (hex) VITA
0012A2 (base 16) VITA
PO Box 19658
Fountain Hills AZ 85269
US

00-12-A8 (hex) intec GmbH
0012A8 (base 16) intec GmbH
Rahmedestraße 90
Luedenscheid NRW 58507
DE

00-12-A5 (hex) Dolphin Interconnect Solutions AS
0012A5 (base 16) Dolphin Interconnect Solutions AS
NILS Hansens Vei 13
Oslo 0667
NO

00-12-9E (hex) Surf Communications Inc.
00129E (base 16) Surf Communications Inc.
Room 313, 3F, Bldg.52,
No. 195, Chung Hsing Rd., Sec 4, Chutung, HsinChu, Taiwan
HsinChu 310
TW

00-12-51 (hex) SILINK
001251 (base 16) SILINK
13 RUE POMEYS
LE TAILLAN 33320
FR

00-12-45 (hex) Zellweger Analytics, Inc.
001245 (base 16) Zellweger Analytics, Inc.
405 Barclay Blvd.
Lincolnshire Illinois 60069
US

00-12-BA (hex) FSI Systems, Inc.
0012BA (base 16) FSI Systems, Inc.
5847 County Road 41
Farmington NY 14425
US

00-12-B2 (hex) AVOLITES LTD.
0012B2 (base 16) AVOLITES LTD.
184 PARK AVENUE
LONDON NW10 7XL
GB

00-12-AE (hex) HLS HARD-LINE Solutions Inc.
0012AE (base 16) HLS HARD-LINE Solutions Inc.
53 Main Street
Dowling Ontario P0M 1R0
CA

00-12-AF (hex) ELPRO Technologies
0012AF (base 16) ELPRO Technologies
9 / 12 Billabong St.
Stafford Queensland 4053
AU

00-12-42 (hex) Millennial Net
001242 (base 16) Millennial Net
285 Billerica Road
Chelmsford
MA 01803
US

00-12-41 (hex) a2i marketing center
001241 (base 16) a2i marketing center
1024-4 Duksan Bldg Bangbaedong Seochogu Seoul Korea
SEOUL 137-060
KR

00-12-3B (hex) KeRo Systems ApS
00123B (base 16) KeRo Systems ApS
Allikevej 3
Hørsholm 2970

DK

00-12-92 (hex) Griffin Technology
001292 (base 16) Griffin Technology
1930 Air Lane Drive
Nashville TN 37210
US

00-12-82 (hex) Qovia
001282 (base 16) Qovia
7470 New Technology Way
Frederick MD 21703
US

00-12-87 (hex) Digital Everywhere Unterhaltungselektronik GmbH
001287 (base 16) Digital Everywhere Unterhaltungselektronik GmbH
Maria Gailer Strasse 16
Villach Kärnten 9500
AT

00-12-85 (hex) Gizmondo Europe Ltd
001285 (base 16) Gizmondo Europe Ltd
1 Meadow Gate Avenue
Farnborough Hampshire GU14 6FG
GB

00-12-9A (hex) IRT Electronics Pty Ltd
00129A (base 16) IRT Electronics Pty Ltd
26
Hotham Parade
Artarmon NSW 2064
AU

00-12-8D (hex) STB Datenservice GmbH
00128D (base 16) STB Datenservice GmbH
Weinsbergstraße 190
Köln NRW 50825
DE

00-12-8E (hex) Q-Free ASA
00128E (base 16) Q-Free ASA
Th. Owesensgt. 35c
Trondheim 7443
NO

00-12-57 (hex) LeapComm Communication Technologies Inc.
001257 (base 16) LeapComm Communication Technologies Inc.
RM1804-05 South Tower Hong Kong Plaza, No.283 Huaihai Zhong Road

Shanghai 200021
CN

00-12-67 (hex) Panasonic Corporation
001267 (base 16) Panasonic Corporation
2460-1, Uegawa-Cho
Matsusaka-City Mie 571-8506
JP

00-12-65 (hex) Enerdyne Technologies, Inc.
001265 (base 16) Enerdyne Technologies, Inc.
1935 Cordell Court
El Cajon CA 92020
US

00-12-6D (hex) University of California, Berkeley
00126D (base 16) University of California, Berkeley
EECS Department
Berkeley CA 94720-1776
US

00-11-FA
(hex) Rane Corporation
0011FA (base 16) Rane Corporation
10802 47th Avenue West
Mukilteo WA 98275-5098
US

00-11-F2 (hex) Institute of Network Technologies
0011F2 (base 16) Institute of Network Technologies
17-th Line Vasilevsky Ostrov, 54-1
St.Petersburg 199178
RU

00-11-F3 (hex) NeoMedia Europe AG
0011F3 (base 16) NeoMedia Europe AG
Jens-Otto-Krag-Straße 11
Würselen 52146
DE

00-11-E9 (hex) STARNEX CO., LTD.
0011E9 (base 16) STARNEX CO., LTD.
4th Floor, C&C Bldg, 228-2
Kwangjin-gu Seoul 143-200
KR

00-11-EC (hex) AVIX INC.
0011EC (base 16) AVIX INC.

1-1, Fukuura, Kanazawa-ku
Yokohama-shi Kanagawa 236-0004
JP

00-12-0D (hex) Advanced Telecommunication Technologies, Inc.
00120D (base 16) Advanced Telecommunication Technologies, Inc.
10390 Wilshire Boulevard
Los Angeles California 90024
US

00-12-0E (hex) AboCom
00120E (base 16) AboCom
1F , No.
21, Yanfa 2nd Rd., SBIP
Hsinchu City 300
TW

00-12-02 (hex) Decrane Aerospace - Audio International Inc.
001202 (base 16) Decrane Aerospace - Audio International Inc.
7300 Industry Drive
North Little Rock AR 72117
US

00-11-FE (hex) Keiyo System Research, Inc.
0011FE (base 16) Keiyo System Research, Inc.
Hamada park Bldg. 6F
Chiba-city Chiba-pref 260-0028
JP

00-11-FD (hex) KORG INC.
0011FD (base 16) KORG INC.
4015-2, Yanokuchi
Inagi-City TOKYO 206-0812
JP

00-12-36 (hex) ConSentry Networks
001236 (base 16) ConSentry Networks
1690 McCandless Dr
Milipitas CA 95035
US

00-12-35 (hex) Andrew Corporation
001235 (base 16) Andrew Corporation
2601 Telecom Pkwy
Richardson TX 75082
US

00-12-26 (hex) Japan Direx Corporation

001226 (base 16) Japan Direx Corporation
Kyocera Harajuku Bldg.
Shibuya-ku Tokyo 150-0001
JP

00-12-29 (hex) BroadEasy Technologies
Co.,Ltd
001229 (base 16) BroadEasy Technologies Co.,Ltd
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Nanjing Jiangsu 210009
CN

00-12-22 (hex) Skardin (UK) Ltd
001222 (base 16) Skardin (UK) Ltd
No. 5 Greenway (RO24)
Harlow Essex CM19 5QB
GB

00-12-28 (hex) Data Ltd.
001228 (base 16) Data Ltd.
J. Hagaru 9
Bratislava 830 05
SK

00-12-1F (hex) Harding Instruments
00121F (base 16) Harding Instruments
9431-41Ave
Edmonton AB T6E 5X7
CA

00-11-E7 (hex) WORLDSAT - Texas de France
0011E7 (base 16) WORLDSAT - Texas de France
220, rue Gustave Eiffel
Aix en Provence Bouches du Rhone 13854
FR

00-11-E8 (hex) Tixi.Com
0011E8 (base 16) Tixi.Com
Karmeliterweg 114
Berlin 13465
DE

00-11-E0 (hex) U-MEDIA Communications, Inc.
0011E0 (base 16) U-MEDIA Communications, Inc.
9F, No.1 Jin-Shan St.
Hsinchu 300
TW

00-11-D0 (hex) Tandberg Data ASA
0011D0 (base
16) Tandberg Data ASA
Kjelsåsveien 161
Oslo 0411
NO

00-11-C3 (hex) Transceiving System Technology Corporation
0011C3 (base 16) Transceiving System Technology Corporation
NO.85,Sec.2,Gongdaowu Rd.,
Hsinchu 300
TW

00-11-C2 (hex) United Fiber Optic Communication
0011C2 (base 16) United Fiber Optic Communication
13-1,NO.700,Jungjeng RD,Junghe City
Junghe City Taipei 235
TW

00-11-BF (hex) AESYS S.p.A.
0011BF (base 16) AESYS S.p.A.
Via Artigiani, 41
Brusaporto Bergamo 24060
IT

00-11-B7 (hex) Octalix B.V.
0011B7 (base 16) Octalix B.V.
Molensteijn 60
De Meern NL-3454 PT
NL

00-11-B9 (hex) Inner Range Pty. Ltd.
0011B9 (base 16) Inner Range Pty. Ltd.
1 Millenium Court
Knoxfield Victoria 3180
AU

00-12-20 (hex) Cadco Systems
001220 (base 16) Cadco Systems
2363 Merritt Dr
Garland Texas 75041
US

00-12-10 (hex) WideRay Corp
001210 (base
16) WideRay Corp
25 Kearny Street
San Francisco CA 94108

US

00-11-CE (hex) Ubisense Limited
0011CE (base 16) Ubisense Limited
St. Andrews House
Chesterton Cambridge CB4 1DL
GB

00-11-98 (hex) Prism Media Products Limited
001198 (base 16) Prism Media Products Limited
William James House
Cambridge Cambridgeshire CB4 0WX
GB

00-11-97 (hex) Monitoring Technologies Limited
001197 (base 16) Monitoring Technologies Limited
14 Attenburys Park Estate
Timperley Cheshire WA14 5QE
GB

00-11-99 (hex) 2wcom Systems GmbH
001199 (base 16) 2wcom Systems GmbH
Am Sophienhof 8
Flensburg 24941
DE

00-11-62 (hex) STAR MICRONICS CO.,LTD.
001162 (base 16) STAR MICRONICS CO.,LTD.
536 Shimizunanatsushinya
Shizuoka 424-0066
JP

00-11-61 (hex) NetStreams, LLC
001161 (base 16) NetStreams, LLC
3600 W. Parmer Lane
Austin TX 78727
US

00-11-56 (hex) Pharos Systems NZ
001156
(base 16) Pharos Systems NZ
Level 3, 123 Carlton Gore Road
Auckland NZ 1001
NZ

00-11-59 (hex) MATISSE NETWORKS INC
001159 (base 16) MATISSE NETWORKS INC
339 N BERNARDO AVE

MOUNTAIN VIEW CA 94043
US

00-11-5C (hex) Cisco Systems, Inc
00115C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-11-5D (hex) Cisco Systems, Inc
00115D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-11-70 (hex) GSC SRL
001170 (base 16) GSC SRL
VIA PER VIMERCATE
USMATE VELATE MILANO 20040
IT

00-11-6B (hex) Digital Data Communications Asia Co.,Ltd
00116B (base 16) Digital Data Communications Asia Co.,Ltd
8F,No.41,Lane 221,Kang-Chien RD.,Nei-Hu Dis.,
Taipei City 114
TW

00-11-69 (hex) EMS Satcom
001169 (base 16) EMS Satcom
Green Lane
Tewkesbury Gloucestershire GL20 8HD
GB

00-11-A7 (hex) Infilco Degremont
Inc.
0011A7 (base 16) Infilco Degremont Inc.
8007 Discovery Dr.
Richmond Virginia 23255-1390
US

00-11-A3 (hex) LanReady Technologies Inc.
0011A3 (base 16) LanReady Technologies Inc.
4F, No. 337, SinHu 2nd Road., NeiHu District
Taipei 114
TW

00-11-A4 (hex) JStream Technologies Inc.
0011A4 (base 16) JStream Technologies Inc.

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Chutung, Hsinchu 310
TW

00-11-94 (hex) Chi Mei Communication Systems, Inc.
001194 (base 16) Chi Mei Communication Systems, Inc.
11F, No.39, Chung Hua RD. Sec 1
Taipei 100
TW

00-11-81 (hex) InterEnergy Co.Ltd,
001181 (base 16) InterEnergy Co.Ltd,
3F Shinyokohama Bosei Bldg.
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00-11-76 (hex) Intellambda Systems, Inc.
001176 (base 16) Intellambda Systems, Inc.
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Fremont California 94539
US

00-11-77 (hex) Coaxial Networks, Inc.
001177
(base 16) Coaxial Networks, Inc.
4633 Old Ironsides Dr
Santa Clara CA 95054
US

00-11-3D (hex) KN SOLTEC CO.,LTD.
00113D (base 16) KN SOLTEC CO.,LTD.
98B-5L NAMDONG INDUSTRIAL COMPLEX #662-4 GOJAN-DONG
NAMDONG-GU INCHEON 405-818
KR

00-11-34 (hex) MediaCell, Inc.
001134 (base 16) MediaCell, Inc.
600 17th St
Denver CO 80202
US

00-11-35 (hex) Grandeye Ltd
001135 (base 16) Grandeye Ltd
6 Huxley Road
Guildford Surrey GU2 7RE
GB

00-11-49 (hex) Proliphix Inc.

001149 (base 16) Proliphix Inc.
3 Lan Drive
Westford MA 01886
US

00-11-3B (hex) Micronet Communications Inc.
00113B (base 16) Micronet Communications Inc.
12F-1, No. 100, Min-Chuan Road
Hsin-Tien Taipei 231
TW

00-0F-C1 (hex) WAVE Corporation
000FC1 (base 16) WAVE Corporation
3-25-5 Chidori
Ohta-ku Tokyo 146-0083
JP

00-0F-C4 (hex) NST co.,LTD.
000FC4 (base 16) NST co.,LTD.
4-3-1
SHINMIYAKODA
HAMAMATSU SHIZUOKA 431-2103
JP

00-0F-C9 (hex) Allnet GmbH
000FC9 (base 16) Allnet GmbH
Maistraße 2
Germering Bavaria 82110
DE

00-0F-C6 (hex) Eurocom Industries A/S
000FC6 (base 16) Eurocom Industries A/S
porsvej 2
Aalborg NV DK-9200
DK

00-0F-BE (hex) e-w/you Inc.
000FBE (base 16) e-w/you Inc.
3F FINE Bldg. 6-17-17
Shinagawa-ku, Tokyo 140-0013
JP

00-0F-C0 (hex) DELCOMp
000FC0 (base 16) DELCOMp
Technologielaan 3
Leuven B-3000
BE

00-0F-BA (hex) Tevebox AB
000FBA (base 16) Tevebox AB
Berglinds vag 13
warmdo S-13900
SE

00-0F-B8 (hex) CallURL Inc.
000FB8 (base 16) CallURL Inc.
3F-11, No. 508 Sec. 5, Chung-Hsiao E. Rd.
Taipei 110
TW

00-0F-D8 (hex) Force, Inc.
000FD8 (base 16) Force, Inc.
825 Park Street
Christiansburg Va 24073
US

00-0F-D3 (hex) Digium
000FD3 (base 16) Digium
445 Jan
Davis Drive NW
Huntsville AL 35806
US

00-0F-D1 (hex) Applied Wireless Identifications Group, Inc.
000FD1 (base 16) Applied Wireless Identifications Group, Inc.
382 Route 59, Section 292
Monsey New York 10952
US

00-11-00 (hex) Schneider Electric
001100 (base 16) Schneider Electric
5460 Pottsville Pike
Leesport PA 19533
US

00-0F-FA (hex) Optinel Systems, Inc.
000FFA (base 16) Optinel Systems, Inc.
6835 Deerpath Rd.
Elkridge MD 21075
US

00-0F-FD (hex) Glorytek Network Inc.
000FFD (base 16) Glorytek Network Inc.
5F.-3, No.16, Sec. 1, Dongda Rd.,
Hsinchu 300
TW

00-0F-F9 (hex) Valcretec, Inc.
000FF9 (base 16) Valcretec, Inc.
Byucksan Digital Valley II 15F
Seoul 153-803
KR

00-11-26 (hex) Venstar Inc.
001126 (base 16) Venstar Inc.
9250 Owensmouth Ave.
Chatsworth CA 91311
US

00-11-2E (hex) CEICOM
00112E (base 16) CEICOM
17 rue Gaston
Evrard
Toulouse Cedex 1 31094
FR

00-11-21 (hex) Cisco Systems, Inc
001121 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-11-22 (hex) CIMSYS Inc
001122 (base 16) CIMSYS Inc
#301,Sinsung-clean BLDG,140, Nongseo-Ri,Kiheung-Eup
Yongin-City Kyunggi-Do 449-711
KR

00-0F-B7 (hex) Cavium
000FB7 (base 16) Cavium
2315 N First Street
San Jose CA 95131
US

00-11-09 (hex) Micro-Star International
001109 (base 16) Micro-Star International
No 69, Li-De Street, Jung-He City,
Taipei
TW

00-11-04 (hex) TELEXY
001104 (base 16) TELEXY
1116, HYUNDAI 41 TOWER, 917-9
SEOUL 158-723

KR

00-0F-F7 (hex) Cisco Systems, Inc
000FF7 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0F-A9 (hex) PC Fabrik
000FA9 (base 16) PC Fabrik
Buchenstrasse 13-15
Dresden Sachsen 01097
DE

00-0F-9A (hex) Synchrony,
Inc.
000F9A (base 16) Synchrony, Inc.
6410 Commonwealth Drive
Roanoke VA 24018
US

00-0F-A0 (hex) Canon Korea Inc.
000FA0 (base 16) Canon Korea Inc.
607, Teheran-ro, Gangnam-gu
Seoul Gangnam-gu 06173
KR

00-11-16 (hex) COTEAU VERT CO., LTD.
001116 (base 16) COTEAU VERT CO., LTD.
3-3-19 KACHIDOKI
CHUO-KU TOKYO 104-0054
JP

00-11-10 (hex) Maxanna Technology Co., Ltd.
001110 (base 16) Maxanna Technology Co., Ltd.
Room201, No.42-3, Luyuan Road
Guangzhou 510095
CN

00-0F-85 (hex) ADDO-Japan Corporation
000F85 (base 16) ADDO-Japan Corporation
Shin Edobashi Bldg. 4F, 8-6 Nihombashi Kobuna-cho
Chuo-ku Tokyo 103-0024
JP

00-0F-82 (hex) Mortara Instrument, Inc.
000F82 (base 16) Mortara Instrument, Inc.
7865 N. 86th St.

Milwaukee WI 53224
US

00-0F-81 (hex) PAL Pacific Inc.
000F81 (base 16) PAL Pacific Inc.
79405 Highway 111
La Quinta CA 92253
US

00-0F-7F
(hex) UBSTORAGE Co.,Ltd.
000F7F (base 16) UBSTORAGE Co.,Ltd.
#A-108, Seoul_Sanup_Jiwon_Center
Ganseo-gu Seoul 157-840
KR

00-0F-49 (hex) Northover Solutions Limited
000F49 (base 16) Northover Solutions Limited
Heath Cottage
Larling Norfolk NR16 2RB
GB

00-0F-4B (hex) Oracle Corporation
000F4B (base 16) Oracle Corporation
900 Chelmsford Street
Lowell MA 01851
US

00-0F-4A (hex) Kyushu-kyohan co.,ltd
000F4A (base 16) Kyushu-kyohan co.,ltd
2-6-3,Koganemachi
Kitakyushu-city Fukuoka 802-0071
JP

00-0F-44 (hex) Tivella Inc.
000F44 (base 16) Tivella Inc.
795 Main Street
Half Moon Bay CA 94019
US

00-0F-40 (hex) Optical Internetworking Forum
000F40 (base 16) Optical Internetworking Forum
48377 Fremont Blvd
Fremont CA 94538
US

00-0F-33 (hex) DUALi Inc.
000F33 (base 16) DUALi Inc.

#505 Samsung Techno Park Bldg 471
Suwon Gyeonggi-do
442-824
KR

00-0F-2F (hex) W-LINX TECHNOLOGY CO., LTD.
000F2F (base 16) W-LINX TECHNOLOGY CO., LTD.
2F,ELLEN L. SKELTON BUILDING,FISHER LANE ROAD
TORTOLA
VG

00-0F-95 (hex) ELECOM Co.,LTD Laneed Division
000F95 (base 16) ELECOM Co.,LTD Laneed Division
8F Kanda-Muromachi Bldg.
Chiyoda-Ku, Tokyo. 101-0052
JP

00-0F-8A (hex) WideView
000F8A (base 16) WideView
F. 6, No. 8, Wu-chuan 2 Rd, Hsin-Chuang City
Taipei Country 242
TW

00-0F-5B (hex) Delta Information Systems, Inc.
000F5B (base 16) Delta Information Systems, Inc.
300 Welsh Road, Bldg. 3
Horsham PA 19044-2273
US

00-0F-55 (hex) Datawire Communication Networks Inc.
000F55 (base 16) Datawire Communication Networks Inc.
10 Carlson Court, Suite 300
Toronto Ontario M9W 6L2
CA

00-0F-56 (hex) Continuum Photonics Inc
000F56 (base 16) Continuum Photonics Inc
5 Fortune Drive
Billerica MA 01821
US

00-0F-90
(hex) Cisco Systems, Inc
000F90 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0F-8D (hex) FAST TV-Server AG
000F8D (base 16) FAST TV-Server AG
Ruedesheimerstraße 11-13
Munich Germany 80686
DE

00-0F-68 (hex) Vavic Network Technology, Inc.
000F68 (base 16) Vavic Network Technology, Inc.
1st Floor, 15 Jiangong Road
Guangzhou Guangdong 510665
CN

00-0F-60 (hex) Lifetron Co.,Ltd
000F60 (base 16) Lifetron Co.,Ltd
6-7,Tenjinnishimachi
Osaka Osaka Prefecture 530-0045
JP

00-0F-77 (hex) DENTUM CO.,LTD
000F77 (base 16) DENTUM CO.,LTD
Wookyung B/D 602 #678-6
Seoul 157-030
KR

00-0F-7B (hex) Arce Sistemas, S.A.
000F7B (base 16) Arce Sistemas, S.A.
C/Padre Larramendi, 3 - 2º
Bilbao Vizcaya 48012
ES

00-0F-1C (hex) DigitAll World Co., Ltd
000F1C (base 16) DigitAll World Co., Ltd
Sejin Bld 2F, 689 ilwon2-dong,
gangnam-gu
Seoul 135-946
KR

00-0E-F7 (hex) Vulcan Portals Inc
000EF7 (base 16) Vulcan Portals Inc
505 5th Ave South, Suite 900
Seattle WA 98104
US

00-0E-E9 (hex) WayTech Development, Inc.
000EE9 (base 16) WayTech Development, Inc.
11Floor, 253 Min-Sheng Road
HsinChu 300
TW

00-0E-F0 (hex) Festo AG & Co. KG
000EF0 (base 16) Festo AG & Co. KG
Ruiterstraße 82
Esslingen 73734
DE

00-0E-EB (hex) Sandmartin(zhong shan)Electronics Co.,Ltd
000EEB (base 16) Sandmartin(zhong shan)Electronics Co.,Ltd
3st Industrial Area,Tan Zhou,
Zhongshan Guangdong 528467
CN

00-0E-EC (hex) Orban
000EEC (base 16) Orban
1525 Alvarado St.
San Leandro CA 94577
US

00-0E-EF (hex) Private
000EEF (base 16) Private

00-0E-F1 (hex) EZQUEST INC.
000EF1 (base 16) EZQUEST INC.
23311 E. LA PALMA AVE.
YORBA LINDA CA 92887
US

00-0E-E7 (hex) AAC ELECTRONICS CORP.
000EE7 (base 16) AAC
ELECTRONICS CORP.
FLOOR 7,SIXTH BUILDING OF NAIANYOU TNAN INDUSTRIAL AREA,NANSHAN DISTRICT
SHENZHEN PROVINCE GUANGDONG 518054
CN

00-0F-1A (hex) Gaming Support B.V.
000F1A (base 16) Gaming Support B.V.
Industrie weg 29
Rotterdam 3044 AS
NL

00-0F-0A (hex) Clear Edge Networks
000F0A (base 16) Clear Edge Networks
11250 El Camino Real
San Diego CA 92130
US

00-0F-02 (hex) Digicube Technology Co., Ltd

000F02 (base 16) Digicube Technology Co., Ltd
8F,No. 51, Lane 35, Jihu Rd.,
Taipei 114
TW

00-0E-DA (hex) C-TECH UNITED CORP.
000EDA (base 16) C-TECH UNITED CORP.
5F, No 665, CHUNG CHEN RD.
HSIN CHUANG CITT of TAIPEI HSIEN 242
TW

00-0E-C9 (hex) YOKO Technology Corp.
000EC9 (base 16) YOKO Technology Corp.
6F, No.10, Lane16, Sec2, Sze-Chuan Rd., Pan-
Taipei 886
TW

00-0E-D0 (hex) Privaris, Inc.
000ED0 (base 16) Privaris, Inc.
675 Peter Jefferson
Pkwy, Ste 150
Charlottesville Virginia 22911
US

00-0E-C3 (hex) Logic Controls, Inc.
000EC3 (base 16) Logic Controls, Inc.
355 Denton Avenue
New Hyde Park NY 11040
US

00-0E-C4 (hex) Iskra Transmission d.d.
000EC4 (base 16) Iskra Transmission d.d.
Stegne 11
Ljubljana 1000
SI

00-0E-E2 (hex) Custom Engineering
000EE2 (base 16) Custom Engineering
Via Beretttine 2/b
Fontevivo Parma 43010
IT

00-0E-E3 (hex) Chiyu Technology Co.,Ltd
000EE3 (base 16) Chiyu Technology Co.,Ltd
No. 28, Renai Road, Chiayi, 600
Chiayi 600
TW

00-0E-E5 (hex) bitWallet, Inc.
000EE5 (base 16) bitWallet, Inc.
Gate City Ohsaki West Tower 18F, 1-11-1 Osaki, Shinagawa-ku
Tokyo 1410032
JP

00-0E-CF (hex) PROFIBUS Nutzerorganisation e.V.
000ECF (base 16) PROFIBUS Nutzerorganisation e.V.
Haid-und-Neu-Straße 7
Karlsruhe Baden-Württemberg 76131
DE

00-0E-C1 (hex) MYNAH Technologies
000EC1
(base 16) MYNAH Technologies
504 Trade Center Blvd
Chesterfield MO 63005
US

00-0E-BD (hex) Burdick, a Quinton Compny
000EBD (base 16) Burdick, a Quinton Compny
500 Burdick Parkway
Deerfield WI 53531
US

00-0E-B9 (hex) HASHIMOTO Electronics Industry Co.,Ltd.
000EB9 (base 16) HASHIMOTO Electronics Industry Co.,Ltd.
3866-12 Takasu-cho
Matsusaka Mie 515-0104
JP

00-0E-98 (hex) HME Clear-Com LTD.
000E98 (base 16) HME Clear-Com LTD.
7400 Beach Drive
Cambridgeshire CB25 9TP
GB

00-0E-99 (hex) Spectrum Digital, Inc
000E99 (base 16) Spectrum Digital, Inc
12502 Exchange Drive, Suite 440
Stafford TX 77477
US

00-0E-95 (hex) Fujiya Denki Seisakusho Co.,Ltd.
000E95 (base 16) Fujiya Denki Seisakusho Co.,Ltd.
8F Fukushima BLDG. 6-25-11,Nishi-Gotanda
Shinagawa-Ku Tokyo 141-0031
JP

00-0E-A7 (hex) Endace Technology
000EA7 (base 16) Endace Technology
85
Alexandra Street
Hamilton 3204
NZ

00-0E-A1 (hex) Formosa Teletek Corporation
000EA1 (base 16) Formosa Teletek Corporation
358,Huaya 2nd Rd.
Taoyuan 333
TW

00-0F-05 (hex) 3B SYSTEM INC.
000F05 (base 16) 3B SYSTEM INC.
1727, SANKYUK2-DONG, BUK-GU
DAEGU 702-845
KR

00-0E-B2 (hex) Micro-Research Finland Oy
000EB2 (base 16) Micro-Research Finland Oy
Välitalontie 83 C
Helsinki FIN-00660
FI

00-0E-B5 (hex) Ecastle Electronics Co., Ltd.
000EB5 (base 16) Ecastle Electronics Co., Ltd.
#502, Namjang B/D, Bangbae-dong,
Seoul 137-818
KR

00-0E-4F (hex) Trajet GmbH
000E4F (base 16) Trajet GmbH
Rebenring 33
Braunschweig Nds. 38106
DE

00-0E-50 (hex) Thomson Telecom Belgium
000E50 (base 16) Thomson Telecom Belgium
Prins Boudewijnlaan 47
Edegem Antwerp B-2650
BE

00-0E-4B (hex) atrium c and i
000E4B (base 16) atrium c and i
124-4, Ojeon-dong,
Uiwang-city

Kyunggi-Do 437-819
KR

00-0E-82 (hex) Infinity Tech
000E82 (base 16) Infinity Tech
PO Box 149, Greenwood
Perth W. A. 6924
AU

00-0E-89 (hex) CLEMATIC
000E89 (base 16) CLEMATIC
101 rue Pierre SEMARD
CHATILLON R.P. 92320
US

00-0E-79 (hex) Ample Communications Inc.
000E79 (base 16) Ample Communications Inc.
4034 Clipper Ct.
Fremont CA 94538
US

00-0E-45 (hex) Beijing Newtry Electronic Technology Ltd
000E45 (base 16) Beijing Newtry Electronic Technology Ltd
PO Box 95, No. 1 Bei Sha Tan,
Beijing 10083
CN

00-0E-3F (hex) Soronti, Inc.
000E3F (base 16) Soronti, Inc.
12159 Business Park Dr, Suite 140
Draper Utah 84020
US

00-0E-38 (hex) Cisco Systems, Inc
000E38 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0E-36 (hex) HEINESYS, Inc.
000E36 (base 16) HEINESYS, Inc.
3F, Sungkwang Bldg. 456-13, Sungnae-dong
Seoul
134-848
KR

00-0E-2B (hex) Safari Technologies
000E2B (base 16) Safari Technologies

63855 M40 Hwy
Lawton MI 49065
US

00-0E-28 (hex) Dynamic Ratings P/L
000E28 (base 16) Dynamic Ratings P/L
C/O Wilson Transformer Co.
Glen Waverley Victoria 3150
AU

00-0E-97 (hex) Ultracker Technology CO., Inc
000E97 (base 16) Ultracker Technology CO., Inc
14F-1, No. 888, Jingguo Road, Taoyuan City,
Taoyuan 330
TW

00-0E-1D (hex) ARION Technology Inc.
000E1D (base 16) ARION Technology Inc.
3F, Pica Bldg, 894-2, Hogye 2 Dong
An-Yang City Gyeonggi-Do
KR

00-0E-12 (hex) Adaptive Micro Systems Inc.
000E12 (base 16) Adaptive Micro Systems Inc.
7840 North 86th St.
Milwaukee WI 53224
US

00-0E-17 (hex) Private
000E17 (base 16) Private

00-0E-15 (hex) Tadlys LTD
000E15 (base 16) Tadlys LTD
ISRAELI SHIMON 3
RISHON lEZYYON ISRAEL 75654
US

00-0E-6F
(hex) IRIS Corporation Berhad
000E6F (base 16) IRIS Corporation Berhad
IRIS Smart Technology Complex
Kuala Lumpur WP 57000
MY

00-0D-CC (hex) NEOSMART Corp.
000DCC (base 16) NEOSMART Corp.
Yoon-B/D 4F, 475-31, Bangbae 2-dong
Seoul Seocho-gu 147-819

KR

00-0D-CE (hex) Dynavac Technology Pte Ltd
000DCE (base 16) Dynavac Technology Pte Ltd
30 Tuas Avenue 9
639183
SG

00-0D-C3 (hex) First Communication, Inc.
000DC3 (base 16) First Communication, Inc.
1F, No.36, Industry E. Rd. IV.,
Hsinchu
TW

00-0D-B9 (hex) PC Engines GmbH
000DB9 (base 16) PC Engines GmbH
Flughofstrasse 58
8152 Glattbrugg
CH

00-0D-E6 (hex) YOUNGBO ENGINEERING CO.,LTD
000DE6 (base 16) YOUNGBO ENGINEERING CO.,LTD
Mt.22, Jaeunga-ri, Jigsan-Eup,
Cheonan-shi Chungcheongnam-do #330-810
KR

00-0D-DF (hex) Japan Image & Network Inc.
000DDF (base 16) Japan Image & Network Inc.
5-29-12
Shiba
Minato-ku Tokyo 108-0014
JP

00-0D-95 (hex) Opti-cell, Inc.
000D95 (base 16) Opti-cell, Inc.
100 High Tower Blvd., Suite 301
Pittsburgh PA 15205
US

00-0D-91 (hex) Eclipse (HQ Espana) S.L.
000D91 (base 16) Eclipse (HQ Espana) S.L.
CC de Negocios
Puerto de Banus Marbella 29660
ES

00-0D-80 (hex) Online Development Inc
000D80 (base 16) Online Development Inc
7209 Chapman Hwy

Knoxville Tn 37920
US

00-0D-E8 (hex) Nasaco Electronics Pte. Ltd
000DE8 (base 16) Nasaco Electronics Pte. Ltd
Level 4, Nasaco Tech Centre
486056
SG

00-0D-E9 (hex) Napatech Aps
000DE9 (base 16) Napatech Aps
Rundofrbivej 271, 1
Naerum 2850
DK

00-0D-B7 (hex) SANKO ELECTRIC CO,.LTD
000DB7 (base 16) SANKO ELECTRIC CO,.LTD
7-23 Tamanoi-cho Atsuta-ku
Nagoya-shi Aichi 456-0025
JP

00-0D-AC (hex) Japan CBM Corporation
000DAC (base 16) Japan CBM Corporation
5-68-10
Nakano,
Nakano-Ku Tokyo 164-0001
JP

00-0D-DB (hex) AIRWAVE TECHNOLOGIES INC.
000DDB (base 16) AIRWAVE TECHNOLOGIES INC.
3F,No.9,Industry E. 9th Road
Hsinchu 300
TW

00-0D-CB (hex) Petcomkorea Co., Ltd.
000DCB (base 16) Petcomkorea Co., Ltd.
5F,689-47,Geumjeong-dong,Gunpo-si,Kyungg
Kyunggi-do gunpo-si 435-050
KR

00-0E-01 (hex) ASIP Technologies Inc.
000E01 (base 16) ASIP Technologies Inc.
10F-2, NO.322, Sec.1, Guangfu Rd.,
Hsinchu 300
TW

00-0E-04 (hex) CMA/Microdialysis AB
000E04 (base 16) CMA/Microdialysis AB

Dalvägen 10 / Box 2
Solna 171 18
SE

00-0D-29 (hex) Cisco Systems, Inc
000D29 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0D-26 (hex) Primagraphics Limited
000D26 (base 16) Primagraphics Limited
Cambridge House, No.2 Focus Four
Letchworth Garden City Hertfordshire SG6 2TU
GB

00-0D-19 (hex) ROBE Show
lighting
000D19 (base 16) ROBE Show lighting
Hazovice 2090
Roznov pod Radhostem 756 61
US

00-0D-1C (hex) Amesys Defense
000D1C (base 16) Amesys Defense
1030 Av de la LAUZIERE
AIX en PROVENCE Cedex 03 13794
FR

00-0D-62 (hex) Funkwerk Dabendorf GmbH
000D62 (base 16) Funkwerk Dabendorf GmbH
Maerkische Strasse
Dabendorf Brandenburg 15806
DE

00-0D-65 (hex) Cisco Systems, Inc
000D65 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0D-55 (hex) SANYCOM Technology Co.,Ltd
000D55 (base 16) SANYCOM Technology Co.,Ltd
6F,Beijing Capital Times Square,88# Xich
Beijing 100031
CN

00-0D-57 (hex) Fujitsu I-Network Systems Limited.

000D57 (base 16) Fujitsu I-Network Systems Limited.
1-403 kosugi-cho nakahara-ku
kawasaki kanagawa 211-0063
JP

00-0D-58 (hex) Private
000D58 (base 16) Private

00-0C-F9 (hex) Xylem Water Solutions
000CF9
(base 16) Xylem Water Solutions
Gesallvagen

SE

00-0C-ED (hex) Real Digital Media
000CED (base 16) Real Digital Media
485 North Keller Road
Maitland FL 32751
US

00-0C-F0 (hex) M & N GmbH
000CF0 (base 16) M & N GmbH
Dieselstr 18
Rosbach v.d.H. 61191
DE

00-0C-F4 (hex) AKATSUKI ELECTRIC MFG.CO.,LTD.
000CF4 (base 16) AKATSUKI ELECTRIC MFG.CO.,LTD.
593-1,aoji- cho
kusatsu shi shiga 525-0041
JP

00-0C-F3 (hex) CALL IMAGE SA
000CF3 (base 16) CALL IMAGE SA
867 Route Imperiale
BAILLARGUES 34670
FR

00-0D-41 (hex) Siemens AG ICM MP UC RD IT KLF1
000D41 (base 16) Siemens AG ICM MP UC RD IT KLF1
Suedstrasse 9
Kamp-Lintfort NRW 47475
DE

00-0D-42 (hex) Newbest Development Limited
000D42 (base 16) Newbest Development Limited
3/F Unit 311-312

Shatin NT
HK

00-0D-3C (hex) i.Tech Dynamic Ltd
000D3C (base 16) i.Tech Dynamic Ltd
Room
1112, Metroplaza Tower 2, 223 Hing
852
HK

00-0D-0C (hex) MDI Security Systems
000D0C (base 16) MDI Security Systems
9518 Ninth Street
Rancho Cucamonga CA 91730
US

00-0D-01 (hex) P&E Microcomputer Systems, Inc.
000D01 (base 16) P&E Microcomputer Systems, Inc.
710 Commonwealth Ave
Boston Ma 02215
US

00-0D-00 (hex) Seaway Networks Inc.
000D00 (base 16) Seaway Networks Inc.
1 Chrysalis Way
Ottawa Ontario K2G 6P9
CA

00-0D-51 (hex) DIVR Systems, Inc.
000D51 (base 16) DIVR Systems, Inc.
2161 Saturn Ct.
Bakersfield CA 93308
US

00-0D-45 (hex) Tottori SANYO Electric Co., Ltd.
000D45 (base 16) Tottori SANYO Electric Co., Ltd.
3-201, Minami Yoshikata
Tottori City Tottori 680-8634
JP

00-0D-46 (hex) Parker SSD Drives
000D46 (base 16) Parker SSD Drives
9225 Forsyth Park Drive
Charlotte NC 28273-3884
US

00-0D-35 (hex) PAC International Ltd
000D35

(base 16) PAC International Ltd
1 Park Gate Close
Stockport Cheshire SK6 2SZ
GB

00-0D-2A (hex) Scanmatic AS
000D2A (base 16) Scanmatic AS
Kilsund
Staubø 4920
NO

00-0D-13 (hex) Wilhelm Rutenbeck GmbH&Co.KG
000D13 (base 16) Wilhelm Rutenbeck GmbH&Co.KG
Niederworth 1-10
Schalksmühle NRW 58579
DE

00-0D-16 (hex) UHS Systems Pty Ltd
000D16 (base 16) UHS Systems Pty Ltd
PO Box 6264
Alexandria NSW 2015
AU

00-0D-1F (hex) AV Digital
000D1F (base 16) AV Digital
Pottendorfer Strasse 25-27/4/1/1
Wien 1120
AT

00-0C-E0 (hex) Trek Diagnostics Inc.
000CE0 (base 16) Trek Diagnostics Inc.
982 Keynote Circle
Cleveland Ohio 44131
US

00-0C-E2 (hex) Rolls-Royce
000CE2 (base 16) Rolls-Royce
105 N. Sandusky St.
Mt. Vernon Ohio 43050
US

00-0C-AA (hex) Cubic Transportation Systems Inc
000CAA (base 16) Cubic Transportation Systems Inc
1308 S. Washington
Street
Tullahoma TN 37388
US

00-0C-AC (hex) Citizen Watch Co., Ltd.
000CAC (base 16) Citizen Watch Co., Ltd.
6-1-12, Tanashi-cho
Nishi-Tokyo-shi Tokyo 188-8511
JP

00-0C-AE (hex) Ailocom Oy
000CAE (base 16) Ailocom Oy
Hatanpaan valtatie 24
TAMPERE FIN 33950
FI

00-0C-9E (hex) MemoryLink Corp.
000C9E (base 16) MemoryLink Corp.
36 Jewelers Park Drive
Neenah Wisconsin 54957
US

00-0C-95 (hex) PrimeNet
000C95 (base 16) PrimeNet
Hongik University, 72-1, Sangsu-Dong, Ma
Seoul 121-791
KR

00-0C-9C (hex) Chongho information & communications
000C9C (base 16) Chongho information & communications
Chongho Bldg, #7-61 Yangjae-dong, Seocho
Seoul 137-130
KR

00-0C-97 (hex) NV ADB TTV Technologies SA
000C97 (base 16) NV ADB TTV Technologies SA
LEUVENSESTEENWEG,585
ZAVENTEM Vlaamse brabant 1930
BE

00-0C-8F (hex) Nergal s.r.l.
000C8F (base 16) Nergal
s.r.l.
Viale Bardanzellu,8
Roma 00155
IT

00-0C-92 (hex) WolfVision Gmbh
000C92 (base 16) WolfVision Gmbh
VWP
Goetzis Vorarlberg A-6840
AT

00-0C-93 (hex) Xeline Co., Ltd.
000C93 (base 16) Xeline Co., Ltd.
7F. Chungjin Bldg., 475-22
Seoul 137-819
KR

00-0C-7F (hex) synertronixx GmbH
000C7F (base 16) synertronixx GmbH
Lange Laube 22
Hannover Niedersachsen 30159
DE

00-0C-D1 (hex) SFOM Technology Corp.
000CD1 (base 16) SFOM Technology Corp.
No.18, Lane 32, Wufu 1st Rd., Luju shian
Luju Shiang Tauyuan County 338
TW

00-0C-D8 (hex) M. K. Juchheim GmbH & Co
000CD8 (base 16) M. K. Juchheim GmbH & Co
Moltkestraße 13 - 31
Fulda Hessen 36039
DE

00-0C-CE (hex) Cisco Systems, Inc
000CCE (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0C-CF (hex) Cisco Systems, Inc
000CCF (base 16) Cisco Systems, Inc
80 West
Tasman Drive
San Jose CA 94568
US

00-0C-C6 (hex) Ka-Ro electronics GmbH
000CC6 (base 16) Ka-Ro electronics GmbH
Pascalstraße 22
Aachen NW 52076
DE

00-0C-C4 (hex) Tiptel AG
000CC4 (base 16) Tiptel AG
Halskestrasse 1
Ratingen NRW 40880

DE

00-0C-BA (hex) Jamex, Inc.
000CBA (base 16) Jamex, Inc.
2415 N Triphammer Rd
Ithaca NY 14850
US

00-0C-81 (hex) Schneider Electric (Australia)
000C81 (base 16) Schneider Electric (Australia)
80 Schneider Road
Eagle Farm Qld 4009
AU

00-0C-80 (hex) Opelcomm Inc.
000C80 (base 16) Opelcomm Inc.
46750 Fremont Blvd. Ste 210
Fremont CA 94538
US

00-0C-7D (hex) TEIKOKU ELECTRIC MFG. CO., LTD
000C7D (base 16) TEIKOKU ELECTRIC MFG. CO., LTD
60,HIRANO
IBO-GUN HYOGO 679-4395
JP

00-0C-B7 (hex) Nanjing Huazhuo Electronics Co., Ltd.
000CB7 (base 16) Nanjing Huazhuo Electronics Co., Ltd.
No.77 Gaohu Road
Nanjing
Jiangsu 211100
CN

00-0C-76 (hex) MICRO-STAR INTERNATIONAL CO., LTD.
000C76 (base 16) MICRO-STAR INTERNATIONAL CO., LTD.
No 69, Li-De Street, Jung-He City, Taipe
Taipei
TW

00-0C-68 (hex) SigmaTel, Inc.
000C68 (base 16) SigmaTel, Inc.
201 Jones Road
Waltham MA 02451
US

00-0C-AD (hex) BTU International
000CAD (base 16) BTU International
23 Esquire Rd

North Billerica MA 01862
US

00-0C-A3 (hex) Rancho Technology, Inc.
000CA3 (base 16) Rancho Technology, Inc.
10783 Bell Court
Rancho Cucamonga CA 19730
US

00-0C-0E (hex) XtremeSpectrum, Inc.
000C0E (base 16) XtremeSpectrum, Inc.
8133 Leesburg Pike
Vienna VA 22182
US

00-0C-12 (hex) Micro-Optronic-Messtechnik GmbH
000C12 (base 16) Micro-Optronic-Messtechnik GmbH
Lessingstrasse 14
Langebrück Saxony D-01465
DE

00-0C-10 (hex) PNI Corporation
000C10 (base 16) PNI Corporation
5464 Skylane
Blvd #A
Santa Rosa CA 95403
US

00-0C-0A (hex) Guangdong Province Electronic Technology Research Institute
000C0A (base 16) Guangdong Province Electronic Technology Research Institute
Electronic Technology Building,NO.61-65,
Guangzhou Guangdong 510630
CN

00-0C-0B (hex) Broadbus Technologies
000C0B (base 16) Broadbus Technologies
80 Central Street
Boxborough Massachusetts 01719
US

00-0C-07 (hex) Iftest AG
000C07 (base 16) Iftest AG
Schwimmbadstrasse 43
Wettingen AG 5430
CH

00-0C-0C (hex) APPRO TECHNOLOGY INC.
000C0C (base 16) APPRO TECHNOLOGY INC.

13F, No. 66 Chung-Cheng Rd,
Hsin-Chuang Taipei 242
TW

00-0B-F9 (hex) Gemstone Communications, Inc.
000BF9 (base 16) Gemstone Communications, Inc.
6Fl., No. 102, Hengyang Rd.
Taipei 100
TW

00-0B-EA (hex) Zultys Technologies
000BEA (base 16) Zultys Technologies
785 Lucern Drive
Sunnyvale CA 94085
US

00-0B-DD
(hex) TOHOKU RICOH Co., LTD.
000BDD (base 16) TOHOKU RICOH Co., LTD.
3-1 Shinmeido
Shibata Miyagi pref. 989-1695
JP

00-0B-E5 (hex) HIMS International Corporation
000BE5 (base 16) HIMS International Corporation
139-9
Daejeon Daejeon 305-806
KR

00-0C-23 (hex) Beijing Lanchuan Tech. Co., Ltd.
000C23 (base 16) Beijing Lanchuan Tech. Co., Ltd.
Rm220,No.30 Shangyuancun,Gaoliangqiaolu,
Beijing 100044
CN

00-0C-25 (hex) Allied Telesis Labs, Inc.
000C25 (base 16) Allied Telesis Labs, Inc.
Suite 450
Raleigh NC 27606
US

00-0C-18 (hex) Zenisu Keisoku Inc.
000C18 (base 16) Zenisu Keisoku Inc.
2-13-37
Fuchu-shi Tokyo 183-0027
JP

00-0C-3A (hex) Oxance

000C3A (base 16) Oxance
75-85 rue Richelieu
les Lucs sur Boulogne 85170
FR

00-0C-35 (hex) KaVo Dental GmbH & Co. KG
000C35 (base 16) KaVo Dental GmbH & Co. KG
Bismarkring 39
Biberach/Riss
Baden-Württemberg 88400
DE

00-0C-37 (hex) Geomation, Inc.
000C37 (base 16) Geomation, Inc.
25188 Genesee Trail Road
Golden CO 80401
US

00-0C-40 (hex) Altech Controls
000C40 (base 16) Altech Controls
1545 Industial Drive
Missouri City Texas 77489
US

00-0C-3E (hex) Crest Audio
000C3E (base 16) Crest Audio
16-00 Pollitt Drive
Fair Lawn NJ 07410
US

00-0C-56 (hex) Megatel Computer (1986) Corp.
000C56 (base 16) Megatel Computer (1986) Corp.
586 Main Street
Glen Williams Ontario L7G 3T6
CA

00-0C-57 (hex) MACKIE Engineering Services Belgium BVBA
000C57 (base 16) MACKIE Engineering Services Belgium BVBA
Industriepark Noord 10
Sint Niklaas B-9100
BE

00-0C-54 (hex) Pedestal Networks, Inc
000C54 (base 16) Pedestal Networks, Inc
6503 Dumbarton Circle
Fremont CA 94555
US

00-0C-4A (hex) Cygnus Microsystems (P) Limited
000C4A (base 16) Cygnus
Microsystems (P) Limited
93, Phase II,
Hyderabad Andhra Pradesh 500051
IN

00-0B-FC (hex) Cisco Systems, Inc
000BFC (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0B-E9 (hex) Actel Corporation
000BE9 (base 16) Actel Corporation
200 Valley Road
Mt. Arlington NJ 07856
US

00-0B-E3 (hex) Key Stream Co., Ltd.
000BE3 (base 16) Key Stream Co., Ltd.
No. 2 Nagaoka Bldg. 4F, 2-8-5 Hatchobor
Chuo-ku Tokyo 104-0032
JP

00-0B-E8 (hex) AOIP
000BE8 (base 16) AOIP
6 rue Maryse BASTIE
COURCOURONNES Idf 91080
FR

00-0B-DC (hex) AKCP
000BDC (base 16) AKCP
67/285 Muangake Village #8
Amphur Muang Patomthanee 12000
TH

00-0B-D8 (hex) Industrial Scientific Corp.
000BD8 (base 16) Industrial Scientific Corp.
1001 Oakdale Road
Oakdale PA 15071
US

00-0B-D7 (hex) DORMA Time + Access GmbH
000BD7 (base 16) DORMA Time + Access GmbH
Mainzer
Straße 36-52
Bonn Nordrheinwestfalen 53179

DE

00-0B-95 (hex) eBet Gaming Systems Pty Ltd
000B95 (base 16) eBet Gaming Systems Pty Ltd
Suite D, 255 Rawson Street
Auburn NSW 2144
AU

00-0B-98 (hex) NiceTechVision
000B98 (base 16) NiceTechVision
IntelZone 703
YongIn Gugal-ri Ki Heung KyoungKiDo 354-2
KR

00-0B-9E (hex) Yasing Technology Corp.
000B9E (base 16) Yasing Technology Corp.
No. 50, Ta Hsueh Road, HsinChu, Taiwan
HsinChu 300
TW

00-0B-88 (hex) Vidisco ltd.
000B88 (base 16) Vidisco ltd.
17 Yechiel Dresner
Petach-Tikva 49277
IL

00-0B-8A (hex) MITEQ Inc.
000B8A (base 16) MITEQ Inc.
100 Davids Drive
Hauppauge NY 11788-2034
US

00-0B-8C (hex) Flextronics
000B8C (base 16) Flextronics
Migdal HaEmek
23108 Hataasia 1
IL

00-0B-90 (hex) ADVA Optical Networking Ltd.
000B90 (base 16) ADVA Optical Networking Ltd.
ADVAntage House
York
YO30 4RY
GB

00-0B-C0 (hex) China IWNComm Co., Ltd.
000BC0 (base 16) China IWNComm Co., Ltd.
4F.C Xietong Building,No.12 Gaoxin 2nd r

Xi'an shaanxi 710075
CN

00-0B-B0 (hex) Sysnet Telematica srl
000BB0 (base 16) Sysnet Telematica srl
Viale Berbera, 49
Milan 20162
IT

00-0B-B4 (hex) RDC Semiconductor Inc.,
000BB4 (base 16) RDC Semiconductor Inc.,
6F-1 , No.2-1, Lihsin Rd, Science-Based
Hsin Chu 300
TW

00-0B-AC (hex) 3Com Ltd
000BAC (base 16) 3Com Ltd
Peoplebuilding 2
Hemel Hempstead Herts HP2 4NW
GB

00-0B-D3 (hex) cd3o
000BD3 (base 16) cd3o
402 W Broadway
San Deigo CA 92101
US

00-0B-D5 (hex) Nvergence, Inc.
000BD5 (base 16) Nvergence, Inc.
Jeil Bldg. 4th, Samsung-dong 168-26, Kan
Seoul 135-090
KR

00-0B-D1 (hex) Aeronix, Inc.
000BD1 (base 16) Aeronix, Inc.
1775 W. Hibiscus Blvd,
Melbourne FL 32901
US

00-0B-D2
(hex) Remopro Technology Inc.
000BD2 (base 16) Remopro Technology Inc.
No. 443, Huannan RD.,
Pingjen City Taoyuan 324
TW

00-0B-C7 (hex) ICET S.p.A.
000BC7 (base 16) ICET S.p.A.

Via Quarto Negroni, 63
Cecchina di Ariccia Roma 00040
IT

00-0B-B8 (hex) Kihoku Electronic Co.
000BB8 (base 16) Kihoku Electronic Co.
Marukatubiru 3F 4-9-6
Osakashi Osaka-hu 556-0005
JP

00-0B-75 (hex) Iosoft Ltd.
000B75 (base 16) Iosoft Ltd.
5 Woodlark Road
Cambridge Cambs. CB3 0HT
GB

00-0B-70 (hex) Load Technology, Inc.
000B70 (base 16) Load Technology, Inc.
4225 Production Court
Las Vegas NV 89115
US

00-0B-6F (hex) Media Streaming Networks Inc
000B6F (base 16) Media Streaming Networks Inc
1905 Anam Tower, 702-10, Yeoksam dong, K
Seoul 135-080
KR

00-0B-79 (hex) X-COM, Inc.
000B79 (base 16) X-COM, Inc.
8809 Sudley Road
Manassas VA 20110
US

00-0B-87
(hex) American Reliance Inc.
000B87 (base 16) American Reliance Inc.
11801 Goldring Rd
Arcadia CA 91006
US

00-0B-63 (hex) Kaleidescape
000B63 (base 16) Kaleidescape
One First Street, Suite Sixteen
Los Altos CA 94022
US

00-0B-68 (hex) Addvalue Communications Pte Ltd

000B68 (base 16) Addvalue Communications Pte Ltd
28,TAI SENG STREET #06-02
Singapore 534106
SG

00-0B-58 (hex) Astronautics C.A LTD
000B58 (base 16) Astronautics C.A LTD
23 hayarkon street
Bnei Brak 51261
IL

00-0B-9F (hex) Neue ELSA GmbH
000B9F (base 16) Neue ELSA GmbH
Sonnenweg 11
Aachen 52070
DE

00-0B-0D (hex) Air2U, Inc.
000B0D (base 16) Air2U, Inc.
No. 5-1 Innovation Rd 1, Science-based P
Hsin-Chu Taiwan 300
TW

00-0B-0B (hex) Corrent Corporation
000B0B (base 16) Corrent Corporation
1711 W. Greentree Dr.
Tempe AZ 85284-2717
US

00-0B-08 (hex) Pillar Data Systems
000B08
(base 16) Pillar Data Systems
1371 McCarthy Blvd.
Milpitas CA 95035
US

00-0A-FA (hex) Traverse Technologies Australia
000AFA (base 16) Traverse Technologies Australia
Unit 13, 240 Sydney Rd
Coburg Victoria 3058
AU

00-0A-FC (hex) Core Tec Communications, LLC
000AFC (base 16) Core Tec Communications, LLC
49 Leavenworth Street
Waterbury CT 06702
US

00-0B-4B (hex) VISIOWAVE SA
000B4B (base 16) VISIOWAVE SA
Route de la Pierre 22
ECUBLENS VAUD CH-1024
CH

00-0B-36 (hex) Productivity Systems, Inc.
000B36 (base 16) Productivity Systems, Inc.
1711 Analog Drive
Richardson TX 75081-1944
US

00-0B-35 (hex) Quad Bit System co., Ltd.
000B35 (base 16) Quad Bit System co., Ltd.
402 Gayang Technotown
Seoul Kangseogu 157-810
KR

00-0B-3F (hex) Anthology Solutions Inc.
000B3F (base 16) Anthology Solutions Inc.
1722 Ringwood Ave.
San Jose CA 95131
US

00-0A-E1
(hex) EG Technology
000AE1 (base 16) EG Technology
250 15th Street
Atlanta GA 30318
US

00-0A-DF (hex) Gennum Corporation
000ADF (base 16) Gennum Corporation
P.O Box 489
Burlington Ontario L7R 3Y3
CA

00-0A-DA (hex) Vindicator Technologies
000ADA (base 16) Vindicator Technologies
5307 Industrial Oaks Blvd.
Austin Texas 78735
US

00-0A-C9 (hex) Zambeel Inc
000AC9 (base 16) Zambeel Inc
45700 Northport Loop East
Fremont CA 94538
US

00-0B-21 (hex) G-Star Communications Inc.
000B21 (base 16) G-Star Communications Inc.
5F, 69-10, Sec. 2, Chung Cheng East Road
Taipei Hsien 251
TW

00-0B-25 (hex) Aeluros
000B25 (base 16) Aeluros
201 San Antonio Circle #172
Mountain View CA 94040
US

00-0B-1A (hex) Industrial Defender, Inc.
000B1A (base 16) Industrial Defender, Inc.
16 Chestnut Street
Foxborough MA 02035
US

00-0B-15 (hex) Platypus
Technology
000B15 (base 16) Platypus Technology
4/1 Atchison St
St Leonards NSW 2065
AU

00-0B-18 (hex) Private
000B18 (base 16) Private

00-0B-55 (hex) ADInstruments
000B55 (base 16) ADInstruments
P. O. Box 587
Dunedin Otago 9001
NZ

00-0B-54 (hex) BiTMICRO Networks, Inc.
000B54 (base 16) BiTMICRO Networks, Inc.
47929 Fremont Blvd
Fremont CA 94538
US

00-0A-EC (hex) Koatsu Gas Kogyo Co., Ltd.
000AEC (base 16) Koatsu Gas Kogyo Co., Ltd.
1-5, Doyama-cho, Kita-ku, Osaka
Osaka 530-8411
JP

00-0A-E7 (hex) ELIOP S.A.

000AE7 (base 16) ELIOP S.A.
Avenida de Manoteras, 30
Madrid E-28050
ES

00-0A-E8 (hex) Cathay Roxus Information Technology Co. LTD
000AE8 (base 16) Cathay Roxus Information Technology Co. LTD
Fuhua mansion building A/B 4F
Beijing 100027
CN

00-0A-DD (hex) Allworx Corp.
000ADD (base 16) Allworx Corp.
245 East Main Street
East
Rochester NY 14604
US

00-0B-43 (hex) Microscan Systems, Inc.
000B43 (base 16) Microscan Systems, Inc.
700 SW 39th St
Renton WA 98057
US

00-0B-45 (hex) Cisco Systems, Inc
000B45 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0B-4C (hex) Clarion (M) Sdn Bhd
000B4C (base 16) Clarion (M) Sdn Bhd
Phase 3
Bayan Lepas Penang 11900
MY

00-0B-3C (hex) Cygnal Integrated Products, Inc.
000B3C (base 16) Cygnal Integrated Products, Inc.
4301 Westbank Drive
Austin TX 78746
US

00-0B-27 (hex) Scion Corporation
000B27 (base 16) Scion Corporation
82 Worman's Mill Court
Frederick MD 21701
US

00-0A-F1 (hex) Clarity Design, Inc.
000AF1 (base 16) Clarity Design, Inc.
13029 Danielson Street
Poway CA 92064-8810
US

00-0A-F3 (hex) Cisco Systems, Inc
000AF3 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose
CA 94568
US

00-0A-C0 (hex) Fuyoh Video Industry CO., LTD.
000AC0 (base 16) Fuyoh Video Industry CO., LTD.
7-25 Higashi Kibogaoka
Yokohama-shi Kanagawa-ken 246-0008
JP

00-0A-AE (hex) Rosemount Process Analytical
000AAE (base 16) Rosemount Process Analytical
6573A Cochran Rd.
Solon Ohio 44139-3922
US

00-0A-B3 (hex) Fa. GIRA
000AB3 (base 16) Fa. GIRA
Dahlienstraße
Radevormwald Nordrhein-Westfalen 42477
DE

00-0A-BA (hex) Arcon Technology Limited
000ABA (base 16) Arcon Technology Limited
Rm. 3711-12, 37/F., Cable TV Tower ,
Hong Kong
CN

00-0A-AF (hex) Pipal Systems
000AAF (base 16) Pipal Systems
2903 Bunker Hill Lane
Santa Clara CA 95054
US

00-0A-B2 (hex) Fresnel Wireless Systems
000AB2 (base 16) Fresnel Wireless Systems
1333 Gateway Drive
Melbourne FL 32901
US

00-0A-9F (hex) Pannaway Technologies, Inc.
000A9F (base 16) Pannaway Technologies,
Inc.
215 Commerce Way
Portsmouth NH 03801
US

00-0A-8F (hex) Aska International Inc.
000A8F (base 16) Aska International Inc.
306 Riverseven
Kochi 780-8088
JP

00-0A-A0 (hex) Cedar Point Communications
000AA0 (base 16) Cedar Point Communications
16 Route 111, Bldg 3
Derry NH 03038
US

00-0A-8E (hex) Invacom Ltd
000A8E (base 16) Invacom Ltd
Business and Technology Centre
Stevenage Hertfordshire SG1 2DX
GB

00-0A-99 (hex) Calamp Wireless Networks Inc
000A99 (base 16) Calamp Wireless Networks Inc
101-5540 Ferrier Street
Town of Mount-Royal Quebec H4P 1M2
CA

00-0A-5D (hex) FingerTec Worldwide Sdn Bhd
000A5D (base 16) FingerTec Worldwide Sdn Bhd
No 6, 8 & 10
Bandar Kinrara 47100 PUchong Selangor
MY

00-0A-5C (hex) Carel s.p.a.
000A5C (base 16) Carel s.p.a.
Via dell' Industria, 11
Brugine Padova 35020
IT

00-0A-5A (hex) GreenNET Technologies
Co.,Ltd.
000A5A (base 16) GreenNET Technologies Co.,Ltd.
No.10, Qiongyu Road,Sciences-based Indus

Shenzhen Guangdong 518057
CN

00-0A-56 (hex) HITACHI Maxell Ltd.
000A56 (base 16) HITACHI Maxell Ltd.
6-20-1 Kinunodai
Yawara-mura, Tsukuba-gun IBARAKI 300-2496
JP

00-0A-51 (hex) GyroSignal Technology Co., Ltd.
000A51 (base 16) GyroSignal Technology Co., Ltd.
5F,No. 77,Lide St.
Zhonghe City Taipei County 23556
TW

00-0A-53 (hex) Intronics, Incorporated
000A53 (base 16) Intronics, Incorporated
2020 Lafayette Blvd.
Fredericksburg Virginia 22401
US

00-0A-76 (hex) Beida Jade Bird Huaguang Technology Co.,Ltd
000A76 (base 16) Beida Jade Bird Huaguang Technology Co.,Ltd
No.207 Chengfu Road, Haidian District
Beijing 100871
CN

00-0A-60 (hex) Autostar Technology Pte Ltd
000A60 (base 16) Autostar Technology Pte Ltd
Unit 04-10 TECHplace II
Singapore Singapore 569876
SG

00-0A-C1
(hex) Futuretel
000AC1 (base 16) Futuretel
21580 Stevens Creek Blvd, Suite 208
Cupertino CA 95014
US

00-0A-C3 (hex) eM Technics Co., Ltd.
000AC3 (base 16) eM Technics Co., Ltd.
7F., IT Venture Tower., 78,
Seoul 138-803
KR

00-0A-C4 (hex) Daewoo Teletech Co., Ltd
000AC4 (base 16) Daewoo Teletech Co., Ltd

265-3, Seohyeon, Bundang
Seongnam Gyeonggi
KR

00-0A-BE (hex) OPNET Technologies CO., LTD.
000ABE (base 16) OPNET Technologies CO., LTD.
3F, NO.5, Industry E. Rd. IX, Science-Ba
Hsinchu 300
TW

00-0A-B6 (hex) COMPUNETIX, INC
000AB6 (base 16) COMPUNETIX, INC
2420 MOSSIDE BLVD.
MONROEVILLE PA 15146
US

00-0A-AA (hex) AltiGen Communications Inc.
000AAA (base 16) AltiGen Communications Inc.
47427 Fremont Blvd.
Fremont CA 94538
US

00-0A-8D (hex) EUROTHERM LIMITED
000A8D (base 16) EUROTHERM LIMITED
FARADAY CLOSE
WORTHING WEST SUSSEX
BN13 3PL
GB

00-0A-4A (hex) Targa Systems Ltd.
000A4A (base 16) Targa Systems Ltd.
1905 Grandtech Centre,
Shatin N.T.
HK

00-0A-39 (hex) LoPA Information Technology
000A39 (base 16) LoPA Information Technology
710-9, Dae Lim 3-Dong
Young Deung po-gu Seoul, Korea 150-814
KR

00-0A-37 (hex) Procera Networks, Inc.
000A37 (base 16) Procera Networks, Inc.
1299 Orleans Drive
Sunnyvale CA 94089
US

00-0A-93 (hex) W2 Networks, Inc.

000A93 (base 16) W2 Networks, Inc.
5808 NW Lac Leman Drive
Issaquah Washington 98027
US

00-0A-89 (hex) Creval Systems, Inc.
000A89 (base 16) Creval Systems, Inc.
2F,24-4,Sanwolgok-Dong,Sungbuk-Ku,Seoul,
Seoul 136-120
KR

00-0A-80 (hex) Telkonet Inc.
000A80 (base 16) Telkonet Inc.
20374 Seneca Meadows Pkwy
Germantown MD 21401
US

00-0A-79 (hex) corega K.K
000A79 (base 16) corega K.K
1-19-20, Shinyokohama
Yokohama-city
Kanagawa-ken 222-0033
JP

00-09-C7 (hex) Movistec
0009C7 (base 16) Movistec
110-5 Maryoung -ri Seosu-myun
Kunsan Chonbuk 573-940
KR

00-09-C9 (hex) BlueWINC Co., Ltd.
0009C9 (base 16) BlueWINC Co., Ltd.
401 Korea Design Center
Seongnam City Kyonggio 463-828
KR

00-09-D4 (hex) Transtech Networks
0009D4 (base 16) Transtech Networks
100 Wood Avenue
Iselin NJ 08830
US

00-09-CB (hex) HBrain
0009CB (base 16) HBrain
#705 Kwanglim Bldg 179 KumiDong
Seongnam GyeonggiDo 463-810
KR

00-09-C5 (hex) KINGENE Technology Corporation
0009C5 (base 16) KINGENE Technology Corporation
7F, No. 144, Minchuan E. Rd. Sec. 3
Taipei 105
TW

00-09-CD (hex) HUDSON SOFT CO.,LTD.
0009CD (base 16) HUDSON SOFT CO.,LTD.
C62,Geijutsu-no-mori
Sapporo Hokkaido 005-0864
JP

00-0A-2C (hex) Active Tchnology Corporation
000A2C (base 16) Active Tchnology Corporation
16-23,
Shibaura 2-Chome,
Tokyo Tokyo 108-0023
JP

00-0A-2A (hex) QSI Systems Inc.
000A2A (base 16) QSI Systems Inc.
7 Raymond Avenue
Salem NH 03079
US

00-0A-1F (hex) ART WARE Telecommunication Co., Ltd.
000A1F (base 16) ART WARE Telecommunication Co., Ltd.
806 Ace Techno Tower #1, 197-17
Seoul 152-050
KR

00-09-F1 (hex) Yamaki Electric Corporation
0009F1 (base 16) Yamaki Electric Corporation
3-7-22 Shimomeguro
Meguro-ku Tokyo 153-0064
JP

00-09-F4 (hex) Alcon Laboratories, Inc.
0009F4 (base 16) Alcon Laboratories, Inc.
6201 South Freeway
Fort Worth Tx 76134
US

00-09-F5 (hex) Emerson Network Power Co.,Ltd
0009F5 (base 16) Emerson Network Power Co.,Ltd
1/F,3/F Electric Building Huawei Base,Ba
ShenZhen GuangDong 518029
CN

00-09-EA (hex) YEM Inc.
0009EA (base 16) YEM Inc.
1-3-33
Atsugi-shi Kanagawa 243-0021
JP

00-09-C0 (hex) 6WIND
0009C0
(base 16) 6WIND
1, place Charles de Gaulle
Montigny-le-Bretonneux 78180
FR

00-09-BF (hex) Nintendo Co., Ltd.
0009BF (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-0A-15 (hex) Silicon Data, Inc
000A15 (base 16) Silicon Data, Inc
4699 Old Ironsides Dr., #150
Santa Clara CA 95054
US

00-0A-1B (hex) Stream Labs
000A1B (base 16) Stream Labs
Leninskie gori 1, bild 77
Moskow 119992
RU

00-0A-1A (hex) Imerge Ltd
000A1A (base 16) Imerge Ltd
Unit 6, Bar Hill Business Park
Bar Hill Cambridge CB3 8SL
GB

00-0A-0A (hex) SUNIX Co., Ltd.
000A0A (base 16) SUNIX Co., Ltd.
3Fl., No. 76, Baugau Rd.,
Shindian Taipei 231
TW

00-0A-05 (hex) Widax Corp.
000A05 (base 16) Widax Corp.
269 Stevens Street
Hyannis MA 02668

US

00-0A-04 (hex) 3Com Ltd
000A04 (base 16) 3Com Ltd
Peoplebuilding 2
Hemel Hempstead
Herts HP2 4NW
GB

00-09-E3 (hex) Angel Iglesias S.A.
0009E3 (base 16) Angel Iglesias S.A.
Polígono 27 Martutene
San Sebastián Guipúzcoa 20014
ES

00-09-D6 (hex) KNC One GmbH
0009D6 (base 16) KNC One GmbH
Hohe Welle 10 B
Evessen 38173
DE

00-0A-34 (hex) Identicard Systems Incorporated
000A34 (base 16) Identicard Systems Incorporated
40 Citation Lane
Lancaster Pennsylvania 17606
US

00-0A-30 (hex) Visteon Corporation
000A30 (base 16) Visteon Corporation
One Village Center Drive
Van Buren Twp MI 48111
US

00-0A-2F (hex) Artnix Inc.
000A2F (base 16) Artnix Inc.
Chungjin B/D, 475-22 Bangbae, Seocho
Seoul 137-819
KR

00-09-2F (hex) Akom Technology Corporation
00092F (base 16) Akom Technology Corporation
5F, No. 323, Yang-Guang St.
Taipei 114
TW

00-09-BA (hex) MAKU Informationstechik GmbH
0009BA (base 16) MAKU Informationstechik GmbH
Gewerbehofstraße

7
Essen NRW 45145
DE

00-09-B4 (hex) KISAN TELECOM CO., LTD.
0009B4 (base 16) KISAN TELECOM CO., LTD.
9F, Teawon Bldg., 65 Bangyi-Dong
Songpa-Gu Seoul 138-828
KR

00-09-AE (hex) OKANO ELECTRIC CO.,LTD
0009AE (base 16) OKANO ELECTRIC CO.,LTD
2-8-18 KANAYAMA-CHO
HIGASHIKURUME TOKYO 203-0003
JP

00-09-5A (hex) RACEWOOD TECHNOLOGY
00095A (base 16) RACEWOOD TECHNOLOGY
5F-2,NO.6,CHUNG-HSING RD.,SEC.1,WU-GU
TAIPEI 248
TW

00-09-51 (hex) Apogee Imaging Systems
000951 (base 16) Apogee Imaging Systems
151 Sunrise Avenue
Roseville CA 95661
US

00-09-71 (hex) Time Management, Inc.
000971 (base 16) Time Management, Inc.
11 Lake Gatlin Road
Orlando Florida 32806
US

00-09-74 (hex) Innopia Technologies, Inc.
000974 (base 16) Innopia Technologies, Inc.
5F., Institute of Technology
Seoul 133-791
KR

00-09-4E (hex) BARTECH SYSTEMS INTERNATIONAL,
INC
00094E (base 16) BARTECH SYSTEMS INTERNATIONAL, INC
251 Najoles Rd Suite A
Millersville Maryland 21108
US

00-09-47 (hex) Aztek, Inc.

000947 (base 16) Aztek, Inc.
23 Spectrum Pointe #209
Lake Forest California 92630
US

00-09-3D (hex) Newisys,Inc.
00093D (base 16) Newisys,Inc.
6200 Bridgepoint Parkway
Austin TX 78730
US

00-09-8B (hex) Entropic Communications, Inc.
00098B (base 16) Entropic Communications, Inc.
9276 Scranton Rd #200
San Diego CA 92121
US

00-09-7E (hex) IMI TECHNOLOGY CO., LTD
00097E (base 16) IMI TECHNOLOGY CO., LTD
2nd floor, Eun Seok Building, 729-1
Gangnam-gu Seoul 135-080
KR

00-09-67 (hex) Tachyon, Inc
000967 (base 16) Tachyon, Inc
9339 Carroll Park Drive
San Diego CA 92121
US

00-09-6A (hex) Cloverleaf Communications Inc.
00096A (base 16) Cloverleaf Communications Inc.
2 Willow St.
Southborough MA 01745-1027
US

00-09-91
(hex) Intelligent Platforms, LLC.
000991 (base 16) Intelligent Platforms, LLC.
2500 Austin Drive
Charlottesville VA 22911
US

00-09-96 (hex) RDI
000996 (base 16) RDI
20406 Earl St.
Torrance CA 90503
US

00-09-38 (hex) Allot Communications
000938 (base 16) Allot Communications
Hanagar 22 st'
Hod-Hasharon 45800
IL

00-09-0C (hex) Mayekawa Mfg. Co. Ltd.
00090C (base 16) Mayekawa Mfg. Co. Ltd.
16825 IH 35 North
Selma Texas 78154
US

00-09-0D (hex) LEADER ELECTRONICS CORP.
00090D (base 16) LEADER ELECTRONICS CORP.
2-6-33, TSUNASHIMA-HIGASHI
YOKOHAMA KANAGAWA 223-8505
JP

00-08-FE (hex) UNIK C&C Co.,Ltd.
0008FE (base 16) UNIK C&C Co.,Ltd.
706-13 UNIK BLDG 17F
SEOUL 135-080
KR

00-08-FF (hex) Trilogy Communications Ltd
0008FF (base 16) Trilogy Communications Ltd
26 Focus Way
Andover Hampshire SP10 5NY
GB

00-09-04 (hex) MONDIAL
electronic
000904 (base 16) MONDIAL electronic
Eggelsberg 73
Eggelsberg Oberoesterreich 5142
AT

00-08-A8 (hex) Systec Co., Ltd.
0008A8 (base 16) Systec Co., Ltd.
19 Nochidori, Nawa
Tokai Aichi 476-0002
JP

00-08-A4 (hex) Cisco Systems, Inc
0008A4 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-09-1F (hex) A&D Co., Ltd.
00091F (base 16) A&D Co., Ltd.
1-243 Asahi
Kitamoto-shi Saitama 364-8585
JP

00-09-24 (hex) Telebau GmbH
000924 (base 16) Telebau GmbH
Am Kraehenberg 1
Waldeck-Sachsenhausen Germany 34513
DE

00-09-21 (hex) Planmeca Oy
000921 (base 16) Planmeca Oy
Asentajankatu 6
HELSINKI 00810 HELSIN
FI

00-09-19 (hex) MDS Gateways
000919 (base 16) MDS Gateways
Clonshaugh Industrial Estate
Dublin 17
IE

00-08-BF (hex) Aptus Elektronik AB
0008BF (base 16) Aptus Elektronik AB
FO Petersons G
6

SE

00-08-B8 (hex) E.F. Johnson
0008B8 (base 16) E.F. Johnson
299 Johnson Ave.
Waseca MN 56093
US

00-08-BB (hex) NetExcell
0008BB (base 16) NetExcell
15375 Barranca Pkwy, #E-106
Irvine CA 92679
US

00-08-BE (hex) XENPAK MSA Group
0008BE (base 16) XENPAK MSA Group
Care of: Agilent Technologies
Ipswich Suffolk Ip1 5PB

GB

00-08-C1 (hex) Avistar Communications Corporation
0008C1 (base 16) Avistar Communications Corporation
15851 Dallas Pkwy.
Addison TX 75001
US

00-08-C6 (hex) Philips Consumer Communications
0008C6 (base 16) Philips Consumer Communications
Route d'Angers
Cedex 9
FR

00-09-18 (hex) SAMSUNG TECHWIN CO.,LTD
000918 (base 16) SAMSUNG TECHWIN CO.,LTD
42
CHANGWON KYONGNAM 641-716
KR

00-09-10 (hex) Simple Access Inc.
000910 (base 16) Simple Access Inc.
600 McCaffrey Street
St-Laurent Quebec H4T1N1
CA

00-09-14
(hex) COMPUTROLS INC.
000914 (base 16) COMPUTROLS INC.
221 Bark Drive
Harvey LA 70058
US

00-08-EF (hex) DIBAL,S.A.
0008EF (base 16) DIBAL,S.A.
Astintze Kalea 24
Derio Vizcaya 48160
ES

00-08-F0 (hex) Next Generation Systems, Inc.
0008F0 (base 16) Next Generation Systems, Inc.
PO BOX 31205
Dayton OH 45437-0205
US

00-08-E9 (hex) NextGig
0008E9 (base 16) NextGig
9820-B Towne Centre Drive

San Diego CA 92121
US

00-08-E7 (hex) SHI ControlSystems,Ltd.
0008E7 (base 16) SHI ControlSystems,Ltd.
19,Natusima
Yokosuka Kanagawa 237-8555
JP

00-08-D7 (hex) HOW CORPORATION
0008D7 (base 16) HOW CORPORATION
1-11-17 Chiyoda
Sagamihara Kanagawa 229-0037
JP

00-08-FC (hex) Gigaphoton Inc.
0008FC (base 16) Gigaphoton Inc.
YOKOKURA SHINDEN400
OYAMA TOTIGI 323-8558
JP

00-08-07 (hex) Access Devices Limited
000807 (base 16) Access Devices Limited
Sixth
Floor, 58 Oxbridge Road

GB

00-07-FC (hex) Adept Systems Inc.
0007FC (base 16) Adept Systems Inc.
2100 Boca Rio Rd.
Boca Raton FL 33433
US

00-07-E8 (hex) EdgeWave
0007E8 (base 16) EdgeWave
15333 Avenue of Science
San Diego CA 92128
US

00-07-EB (hex) Cisco Systems, Inc
0007EB (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-08-65 (hex) JASCOM CO., LTD
000865 (base 16) JASCOM CO., LTD

JUAN INDUSTRIAL COMPLEX 330, 17-1,
JUAN-DONG NAM-GU INCHEON 402-200
KR

00-08-64 (hex) Fasy S.p.A.
000864 (base 16) Fasy S.p.A.
Via Tognasca 7
Gallarate Varese 21013
US

00-08-60 (hex) LodgeNet Entertainment Corp.
000860 (base 16) LodgeNet Entertainment Corp.
3900 W. Innovation Street
Sioux Falls SD 57107
US

00-08-51 (hex) Canadian Bank Note Company, Ltd.
000851 (base 16) Canadian Bank Note Company, Ltd.
18 Auriga
Dr.
K2E 7T9
CA

00-08-59 (hex) ShenZhen Unitone Electronics Co., Ltd.
000859 (base 16) ShenZhen Unitone Electronics Co., Ltd.
2 Southern Floor 702 Building

CN

00-08-4E (hex) DivergeNet, Inc.
00084E (base 16) DivergeNet, Inc.
2142 Bering Dr.
San Jose CA 95131
US

00-08-19 (hex) Banksys
000819 (base 16) Banksys
Haachtsesteenweg 1442

BE

00-08-1A (hex) Sanrad Intelligence Storage Communications (2000) Ltd.
00081A (base 16) Sanrad Intelligence Storage Communications (2000) Ltd.
32 Habarzel St., Entrace B

IL

00-08-10 (hex) Key Technology, Inc.

000810 (base 16) Key Technology, Inc.
150 Avery St.
Walla Walla WA 99362
US

00-08-97 (hex) Quake Technologies
000897 (base 16) Quake Technologies
2880 Zanker Road
San Jose CA 95134
US

00-08-90 (hex) AVILINKS SA
000890 (base 16) AVILINKS SA
Etic Center - CS 77 729
Cesson Sevigne Cedex
35577
FR

00-08-8D (hex) Sigma-Links Inc.
00088D (base 16) Sigma-Links Inc.
550-1 Higashiasakawa-cho,
Tokyo 193-8550
JP

00-08-25 (hex) Acme Packet
000825 (base 16) Acme Packet
71 Third Avenue
Woburn MA 01803
US

00-08-1F (hex) Pou Yuen Tech Corp. Ltd.
00081F (base 16) Pou Yuen Tech Corp. Ltd.
16F, No. 107, Sect. 3, Taichung Keng Rd.

TW

00-08-84 (hex) Index Braille AB
000884 (base 16) Index Braille AB
Box 155

SE

08-00-6B (hex) ACCEL TECHNOLOGIES INC.
08006B (base 16) ACCEL TECHNOLOGIES INC.
7358 TRADE STREET
SAN DIEGO CA 92121
US

00-07-F5 (hex) Bridgeco Co AG
0007F5 (base 16) Bridgeco Co AG
Ringstr. 14

CH

00-07-EC (hex) Cisco Systems, Inc
0007EC (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-07-DC (hex) Atek Co, Ltd.
0007DC (base 16) Atek Co, Ltd.
B dong #205 hanyang venture
park
Seoul
KR

00-07-C6 (hex) VDS Vosskuhler GmbH
0007C6 (base 16) VDS Vosskuhler GmbH
Weibe Breite 7

DE

00-07-CC (hex) Kaba Benzing GmbH
0007CC (base 16) Kaba Benzing GmbH
Albertistrabe 3

DE

00-07-C0 (hex) NetZerver Inc.
0007C0 (base 16) NetZerver Inc.
26 West Lone Cactus Drive
Phoenix AZ 85027
US

00-04-7E (hex) Siqura B.V.
00047E (base 16) Siqura B.V.
Zuidelijk Halfrond 4

NL

00-07-BC (hex) Identix Inc.
0007BC (base 16) Identix Inc.
6591 Sierra Lane
Dublin CA 94568
US

00-07-56 (hex) Juyoung Telecom
000756 (base 16) Juyoung Telecom
#201, Dunsan Building
Taejon 302-846
KR

00-07-5A (hex) Air Products and Chemicals, Inc.
00075A (base 16) Air Products and Chemicals, Inc.
7201 Hamilton Blvd.
Allentown PA 18195-1501
US

00-07-48 (hex) The Imaging Source Europe
000748 (base 16) The Imaging Source Europe
Sommerstraße
34-36

DE

00-07-46 (hex) TURCK, Inc.
000746 (base 16) TURCK, Inc.
3000 Campus Drive
Plymouth MN 55441
US

00-07-41 (hex) Sierra Automated Systems
000741 (base 16) Sierra Automated Systems
2821 Burton Ave.
Burbank CA 91504
US

00-07-9E (hex) Ilinx Co., Ltd.
00079E (base 16) Ilinx Co., Ltd.
4th Floor Korea Telecom, Yangjae Branch
Seoul
KR

00-07-A0 (hex) e-Watch Inc.
0007A0 (base 16) e-Watch Inc.
7800 IH 10 West
San Antonio TX 78229
US

00-07-94 (hex) Simple Devices, Inc.
000794 (base 16) Simple Devices, Inc.
111 Anza Blvd., Suite 120
Burlingame CA 94010

US

00-07-97 (hex) Netpower Co., Ltd.
000797 (base 16) Netpower Co., Ltd.
Baekam Bldg., 6F
Seoul 138-162
KR

00-07-8C (hex) Elektronikspecialisten i Borlange AB
00078C (base 16) Elektronikspecialisten i Borlange AB
Box 50
SE 780
SE

00-07-81 (hex) Itron
Inc.
000781 (base 16) Itron Inc.
2818 N. Sullivan Road
Spokane WA 99216
US

00-07-88 (hex) Clipcomm, Inc.
000788 (base 16) Clipcomm, Inc.
5th Fl, Ssangyang Bldg.
Seoul 151-827
KR

00-07-6B (hex) Stralfors AB
00076B (base 16) Stralfors AB
Langgatan 21

SE

00-07-68 (hex) Danfoss A/S
000768 (base 16) Danfoss A/S
E16-N12, DK-6430 Nordborg

00-07-5F (hex) VCS Video Communication Systems AG
00075F (base 16) VCS Video Communication Systems AG
Forchheimer Str. 4

DE

00-07-5C (hex) Eastman Kodak Company
00075C (base 16) Eastman Kodak Company
343 State Street

Rochester NY 146501245
US

00-07-45 (hex) Radlan Computer Communications Ltd.
000745 (base 16) Radlan Computer Communications Ltd.
Atidim Technology Park
Tel Aviv 61131
IL

00-07-3E (hex) China Great-Wall Computer Shenzhen Co., Ltd.
00073E (base 16) China Great-Wall
Computer Shenzhen Co., Ltd.
Research & Development Center, Kefa Road
Shenzhen 518057
CN

00-07-A9 (hex) Novasonics
0007A9 (base 16) Novasonics
1390 Willow Road
Menlo Park CA 94025
US

00-07-A1 (hex) VIASYS Healthcare GmbH
0007A1 (base 16) VIASYS Healthcare GmbH
Leibnizstraße 7
Hoechberg Bavaria 97204
DE

00-07-B8 (hex) Corvalent Corporation
0007B8 (base 16) Corvalent Corporation
1101 Arrow Point Dr #501
Cedar Park TX 78613
US

00-07-7B (hex) Millimetrix Broadband Networks
00077B (base 16) Millimetrix Broadband Networks
Kibutz Givat Hashelosha 48800

IL

00-07-69 (hex) Italiana Macchi SpA
000769 (base 16) Italiana Macchi SpA
Via Matteotti 1

IT

00-07-18 (hex) iCanTek Co., Ltd.
000718 (base 16) iCanTek Co., Ltd.

2nd Fl. DK Plaza II, 376-5,
Sungman-si, Kyonggi-do 463-805
KR

00-07-16 (hex) J & S Marine Ltd.
000716 (base 16) J &
S Marine Ltd.
Pottington Business Park
Devon EX31 1LY
GB

00-07-1A (hex) Finedigital Inc.
00071A (base 16) Finedigital Inc.
4th Fl. Bomi Bldg., 661 Deungchon 3 Dong
Seoul 157-033
KR

00-07-1E (hex) Tri-M Engineering / Nupak Dev. Corp.
00071E (base 16) Tri-M Engineering / Nupak Dev. Corp.
6-1301 Ketch Court
V3K 6X7
CA

00-07-17 (hex) Wieland Electric GmbH
000717 (base 16) Wieland Electric GmbH
Brennerstraße 10-14

DE

00-06-D9 (hex) IPM-Net S.p.A.
0006D9 (base 16) IPM-Net S.p.A.
Via Remo De Feo

IT

00-06-D3 (hex) Alpha Telecom, Inc. U.S.A.
0006D3 (base 16) Alpha Telecom, Inc. U.S.A.
1394 Borregor Ave.
Sunnyvale CA 94089
US

00-06-A4 (hex) INNOWELL Corp.
0006A4 (base 16) INNOWELL Corp.
#717 ChongGu Bluevill
463-825
KR

00-06-D6 (hex) Cisco Systems, Inc

0006D6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose
CA 94568
US

00-06-47 (hex) Etrali S.A.
000647 (base 16) Etrali S.A.
221, Rue La Fontaine

FR

00-06-CB (hex) Jotron Electronics A/S
0006CB (base 16) Jotron Electronics A/S
Pob 54

NO

00-06-CD (hex) Leaf Imaging Ltd.
0006CD (base 16) Leaf Imaging Ltd.
7th Hatnufa st
Petach-Tikva 49002
IL

00-07-11 (hex) Acterna
000711 (base 16) Acterna
6620 Network Way
Indianapolis IN 46278
US

00-07-0A (hex) Unicom Automation Co., Ltd.
00070A (base 16) Unicom Automation Co., Ltd.
Silk Bldg 3-31-11
Tokyo 164-0012
JP

00-07-09 (hex) Westerstrand Urfabrik AB
000709 (base 16) Westerstrand Urfabrik AB
Box 133

SE

00-06-C7 (hex) RFNET Technologies Pte Ltd (S)
0006C7 (base 16) RFNET Technologies Pte Ltd (S)
Unit 233 Innovation Centre Blk 2
637722
SG

00-06-B9 (hex) A5TEK Corp.
0006B9 (base 16) A5TEK Corp.
1233 Alderwood Ave.
Sunnyvale
CA 94089
US

00-07-02 (hex) Varex Imaging
000702 (base 16) Varex Imaging
1678 South Pioneer Road
Salt Lake City UT 84104
US

00-07-05 (hex) Endress & Hauser GmbH & Co
000705 (base 16) Endress & Hauser GmbH & Co
Hauptstrabe 1 - Postfach 1261

DE

00-07-3B (hex) Tenovis GmbH & Co KG
00073B (base 16) Tenovis GmbH & Co KG
Kleyerstraße 94

DE

00-07-31 (hex) Ophir-Spiricon LLC
000731 (base 16) Ophir-Spiricon LLC
3050 N 300 W
North Logan UT 84341
US

00-07-2B (hex) Jung Myung Telecom Co., Ltd.
00072B (base 16) Jung Myung Telecom Co., Ltd.
5Fl Silla Technovil., 39-3 Dang-Dong

KR

00-06-FF (hex) Sheba Systems Co., Ltd.
0006FF (base 16) Sheba Systems Co., Ltd.
5th Fl. Hyundai Jad B/D
Seoul 134-030
KR

00-06-EB (hex) Global Data
0006EB (base 16) Global Data
2250 Obispo Ave #105
Signal Hill CA 90806
US

00-06-E3 (hex) Quantitative
Imaging Corporation
0006E3 (base 16) Quantitative Imaging Corporation
8081 Lougheed Highway

CA

00-06-E4 (hex) Citel Technologies Ltd.
0006E4 (base 16) Citel Technologies Ltd.
Wheatcroft Business Park
Nottigham NG12 4DG
GB

00-06-A1 (hex) Celsian Technologies, Inc.
0006A1 (base 16) Celsian Technologies, Inc.
3002 Dow Ave., Unit 138
Tustin CA 92780
US

00-06-63 (hex) Human Technology Co., Ltd.
000663 (base 16) Human Technology Co., Ltd.
3rd Fl, Hyungok Bldg.,
Kangnam-ku Seoul
KR

00-06-65 (hex) Sunny Giken, Inc.
000665 (base 16) Sunny Giken, Inc.
3-1-9 Nishidai Itami-shi
Hyogo-pref. 664-0858
JP

00-06-62 (hex) MBM Technology Ltd.
000662 (base 16) MBM Technology Ltd.
Victoria Rd.

GB

00-06-69 (hex) Datasound Laboratories Ltd
000669 (base 16) Datasound Laboratories Ltd
5 Business Park West, Avenue One
ENGLAND
GB

00-06-6E
(hex) Delta Electronics, Inc.
00066E (base 16) Delta Electronics, Inc.
11F, 266 Wen-Hwa 2nd Road,

TW

00-06-5A (hex) Strix Systems
00065A (base 16) Strix Systems
310 N. Westlake Blvd.
Westlake Village CA 91362
US

00-06-95 (hex) Ensure Technologies, Inc.
000695 (base 16) Ensure Technologies, Inc.
3526 West Liberty
Ann Arbor MI 48103
US

00-06-91 (hex) PT Inovacao
000691 (base 16) PT Inovacao
Rua Eng. Jose F. Pinto Basto

PT

00-06-92 (hex) Intruvert Networks, Inc.
000692 (base 16) Intruvert Networks, Inc.
Suite 102
San Jose CA 95131
US

00-06-1A (hex) Zetari Inc.
00061A (base 16) Zetari Inc.
411 Waverly Oaks Rd.
Waltham MA 02452-8401
US

00-06-1F (hex) Vision Components GmbH
00061F (base 16) Vision Components GmbH
Ottostraße 2

DE

00-06-1B (hex) Notebook Development Lab. Lenovo Japan Ltd.
00061B (base 16) Notebook
Development Lab. Lenovo Japan Ltd.
1623-14 Shimotsuruma
242-8502
JP

00-06-0F (hex) Narad Networks Inc
00060F (base 16) Narad Networks Inc

515 Groton Road
Westford MA 01886
US

00-06-10 (hex) Abeona Networks Inc
000610 (base 16) Abeona Networks Inc
46117 Landing Parkway
Fremont CA 94539
US

00-06-52 (hex) Cisco Systems, Inc
000652 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-06-56 (hex) Tactel AB
000656 (base 16) Tactel AB
Norra Vallgatan 64

SE

00-06-41 (hex) ITCN
000641 (base 16) ITCN
8571 Gander Creek Drive
Miamisburg OH 45342
US

00-06-48 (hex) Seedsware, Inc.
000648 (base 16) Seedsware, Inc.
3-7-16 Technostage,
Izumi, Osaka 594-1144
JP

00-06-AB (hex) W-Link Systems, Inc.
0006AB (base 16) W-Link Systems, Inc.
No. 20, Park Ave. II,
Hsinchu 300
TW

00-06-AC (hex) Intersoft
Co.
0006AC (base 16) Intersoft Co.
#1803 sun-kyoung Officetel
Seoul
KR

00-06-94 (hex) Mobillian Corporation

000694 (base 16) Mobillian Corporation
11031 Via Frontera
San Diego CA 92127
US

00-06-74 (hex) Spectrum Control, Inc.
000674 (base 16) Spectrum Control, Inc.
8061 Avonia Road
Fairview PA 16415
US

00-06-8B (hex) AirRunner Technologies, Inc.
00068B (base 16) AirRunner Technologies, Inc.
2401 Lupine Trail
South Lake Tahoe CA 96150
US

00-06-87 (hex) Omnitron Systems Technology, Inc.
000687 (base 16) Omnitron Systems Technology, Inc.
140 Technology
Irvine CA 92618
US

00-06-4C (hex) Invicta Networks, Inc.
00064C (base 16) Invicta Networks, Inc.
13873 Park Center Road
Herndon VA 20171
US

00-06-38 (hex) Sungjin C&C Co., Ltd.
000638 (base 16) Sungjin C&C Co., Ltd.
1543-6, Seocho-dong, Seocho-gu,
Seoul 137-073
KR

00-06-35 (hex) PacketAir
Networks, Inc.
000635 (base 16) PacketAir Networks, Inc.
11545 W. Bernardo Ct.
San Diego CA 92127
US

00-05-D5 (hex) Speedcom Wireless
0005D5 (base 16) Speedcom Wireless
7020 Professional Pkwy East
Sarasota FL 34240-8514
US

00-05-D2 (hex) DAP Technologies
0005D2 (base 16) DAP Technologies
955 Fernand Dufour,
G1M 3B2
CA

00-05-C5 (hex) Flaga HF
0005C5 (base 16) Flaga HF
Vesturhlid 7

IS

00-05-CA (hex) Hitron Technology, Inc.
0005CA (base 16) Hitron Technology, Inc.
HSINCHU SBIP SUBSIDIARY
Hsin-chu
TW

00-05-C0 (hex) Digital Network Alacarte Co., Ltd.
0005C0 (base 16) Digital Network Alacarte Co., Ltd.
A104, Seoul Business Incubator
Seoul 157-030,
KR

00-05-B8 (hex) Electronic Design Associates, Inc.
0005B8 (base 16) Electronic Design Associates, Inc.
331 Arcado Rd. NW
Lilburn GA 30047-2841
US

00-05-BA (hex) Area Netwoeks,
Inc.
0005BA (base 16) Area Netwoeks, Inc.
1148 Euclid Ave., Suite 400
Cleveland OH 4415
US

00-05-8B (hex) IPmental, Inc.
00058B (base 16) IPmental, Inc.
8F-9, No. 35, Hsin Tai Rd.

TW

00-05-7D (hex) Sun Communications, Inc.
00057D (base 16) Sun Communications, Inc.
Gloria Bldg 6th
Tokyo 162-082
JP

00-05-81 (hex) Snell
000581 (base 16) Snell
Southleigh Park House
Hampshire P09 2PE
GB

00-05-BF (hex) JustEzy Technology, Inc.
0005BF (base 16) JustEzy Technology, Inc.
5F, No. 324, Sec. 1, Junghua Rd.
Hsinchu
TW

00-05-AC (hex) Northern Digital, Inc.
0005AC (base 16) Northern Digital, Inc.
103 Randall Drive
Waterloo Ontario N2V 1C5
CA

00-05-AD (hex) Topspin Communications, Inc.
0005AD (base 16) Topspin Communications, Inc.
515 Ellis Street
Mountain View CA 94043
US

00-05-B1 (hex) ASB Technology BV
0005B1 (base 16) ASB
Technology BV
De Ronde 15A

NL

00-05-99 (hex) DRS Test and Energy Management or DRS-TEM
000599 (base 16) DRS Test and Energy Management or DRS-TEM
110 Wynn Drive
Huntsville AL 35805
US

00-05-9A (hex) Cisco Systems, Inc
00059A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-06-11 (hex) Zeus Wireless, Inc.
000611 (base 16) Zeus Wireless, Inc.
8325 Guilford Road
Columbia MD 21046

US

00-05-EC (hex) Mosaic Systems Inc.
0005EC (base 16) Mosaic Systems Inc.
7 Campbell Park
Somerville MA 02144
US

00-06-02 (hex) Cirkitech Electronics Co.
000602 (base 16) Cirkitech Electronics Co.
B1-2, No. 361, Fu-Xing First Road
Tao-Yuan
TW

00-05-AB (hex) Cyber Fone, Inc.
0005AB (base 16) Cyber Fone, Inc.
989 Old Eagle School Road
Wayne PA 19087
US

00-05-92 (hex) Pultek Corp.
000592 (base 16) Pultek Corp.
74-1, Yamashita-cho,

231-0023
JP

00-05-FB (hex) ShareGate, Inc.
0005FB (base 16) ShareGate, Inc.
9805 Double R Blvd.
Reno NV 89511-5917
US

00-05-F0 (hex) SATEC
0005F0 (base 16) SATEC
P.O. Box 45022
91450
IL

00-05-D1 (hex) Metavector Technologies
0005D1 (base 16) Metavector Technologies
Steenweg Op Gierle, 100

BE

00-05-FE (hex) Traficon N.V.
0005FE (base 16) Traficon N.V.
Bissegemsestraat 45

BE

00-05-10 (hex) Infinite Shanghai Communication Terminals Ltd.
000510 (base 16) Infinite Shanghai Communication Terminals Ltd.
777 Chungiao Road, Pudong

CN

00-05-01 (hex) Cisco Systems, Inc
000501 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-05-08 (hex) Inetcam, Inc.
000508 (base 16) Inetcam, Inc.
10171 Pacific Mesa Blvd.
San Diego CA 92121
US

00-04-FF (hex) Acronet Co., Ltd.
0004FF (base
16) Acronet Co., Ltd.
Saman B/D 2Fl
137-064
KR

00-05-04 (hex) Naray Information & Communication Enterprise
000504 (base 16) Naray Information & Communication Enterprise
3F San Woo Bldg., 1543-11
Seoul 137-070
KR

00-05-15 (hex) Nuark Co., Ltd.
000515 (base 16) Nuark Co., Ltd.
12F, Anyang K center, 1591-9, Burim-dong
Gunggi-do 431-065
KR

00-05-1B (hex) Magic Control Technology Corporation
00051B (base 16) Magic Control Technology Corporation
6F, No. 120-11 Chung Shan Rd.

TW

00-05-13 (hex) VTLinx Multimedia Systems, Inc.
000513 (base 16) VTLinx Multimedia Systems, Inc.

8401 Colesville Road,
Silver Spring MD 20910
US

00-05-0E (hex) 3ware, Inc.
00050E (base 16) 3ware, Inc.
701 E. Middlefield Rd.
Mt. View CA 94043
US

00-05-86 (hex) Lucent Technologies
000586 (base 16) Lucent Technologies
1701 Harbor Bay Parkway
Alameda CA 94502
US

00-05-7B
(hex) Chung Nam Electronic Co., Ltd.
00057B (base 16) Chung Nam Electronic Co., Ltd.
Unit 3, 1/F, Festigood Centre
Tsuen Fanling,
HK

00-05-71 (hex) Seiwa Electronics Co.
000571 (base 16) Seiwa Electronics Co.
757 Amabouki, Kukizaki-Machi
300-1253
JP

00-05-70 (hex) Baydel Ltd.
000570 (base 16) Baydel Ltd.
Baydel House

GB

00-05-77 (hex) SM Information & Communication
000577 (base 16) SM Information & Communication
330-1 Yangjaedong
137-130
KR

00-05-38 (hex) Merilus, Inc.
000538 (base 16) Merilus, Inc.
#307-46165 Yale Road
V2P 2P2
CA

00-05-30 (hex) Andiamo Systems, Inc.

000530 (base 16) Andiamo Systems, Inc.
375 E. Tasman Dr.
San Jose CA 95134
US

00-05-6E (hex) National Enhance Technology, Inc.
00056E (base 16) National Enhance Technology, Inc.
2F, No. 196-3, Tatung Rd., Sec. 3,

TW

00-05-6D (hex) Pacific Corporation
00056D
(base 16) Pacific Corporation
2-23-3 Ebisu-Minami Shibuya

JP

00-05-5C (hex) Kowa Company, Ltd.
00055C (base 16) Kowa Company, Ltd.
Chofugaoka 3-3-1,
182-0021
JP

00-05-49 (hex) Salira Optical Network Systems
000549 (base 16) Salira Optical Network Systems
2694 Orchard Parkway
San Jose CA 95134
US

00-05-4C (hex) RF Innovations Pty Ltd
00054C (base 16) RF Innovations Pty Ltd
22 Boulder Road
Malaga WA 6090
AU

00-05-43 (hex) IQ Wireless GmbH
000543 (base 16) IQ Wireless GmbH
Carl-Scheele-Str. 14

DE

00-05-1D (hex) Airocon, Inc.
00051D (base 16) Airocon, Inc.
116 Houghton Lane
Boxboro MA 01719
US

00-05-16 (hex) SMART Modular Technologies
000516 (base 16) SMART Modular Technologies
4305 Cushing Pkwy
Fremont CA 94538
US

00-05-2B (hex) HORIBA, Ltd.
00052B (base 16) HORIBA, Ltd.
2 Miyanohigashi, Kisshoin,

601-8510
JP

00-04-92 (hex) Hive Internet, Ltd.
000492 (base 16) Hive Internet, Ltd.
Unit 2, Church View Business Centre
Binbrook Market Rasen, Lincolnshire LN8 6BY
GB

00-04-8C (hex) Nayna Networks, Inc.
00048C (base 16) Nayna Networks, Inc.
157 Topaz St.
Milpitas CA 95035
US

00-04-91 (hex) Technovision, Inc.
000491 (base 16) Technovision, Inc.
5155 Spectrum Way, Unit #31
L4W 5A1
CA

00-04-93 (hex) Tsinghua Unisplendour Co., Ltd.
000493 (base 16) Tsinghua Unisplendour Co., Ltd.
Th-Unis Building Tsinghua
P.R.
CN

00-04-94 (hex) Breezecom, Ltd.
000494 (base 16) Breezecom, Ltd.
Atidim Technology Park

IL

00-04-E0 (hex) Procket Networks
0004E0 (base 16) Procket Networks
1100 Cadillac Court
Milpitas CA 95035
US

00-04-DB (hex) Tellus Group Corp.
0004DB (base 16) Tellus Group Corp.
4F, No. 15 Industry E. Rd., IX
Hsinchu Hsinchu
Taiwan
TW

00-04-DD (hex) Cisco Systems, Inc
0004DD (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-80-86 (hex) COMPUTER GENERATION INC.
008086 (base 16) COMPUTER GENERATION INC.
3855 PRESIDENTIAL PARKWAY
ATLANTA GA 30340
US

00-04-89 (hex) YAFO Networks, Inc.
000489 (base 16) YAFO Networks, Inc.
1340F Charwood Rd.
Hanover MD 21076
US

00-04-8A (hex) Temia Vertriebs GmbH
00048A (base 16) Temia Vertriebs GmbH
Landsbergerstraße 320

DE

00-04-81 (hex) Econolite Control Products, Inc.
000481 (base 16) Econolite Control Products, Inc.
3360 E. La Palma Ave.
Anaheim CA 92806
US

00-04-77 (hex) Scalant Systems, Inc.
000477 (base 16) Scalant Systems, Inc.
2040 Martin Avenue
Santa Clara CA 95050
US

00-04-D7 (hex) Omitec Instrumentation Ltd.
0004D7 (base 16) Omitec Instrumentation Ltd.
Hopton Industrial Est.

ENGLAND
GB

00-04-D4 (hex) Proview Electronics Co., Ltd.
0004D4 (base 16) Proview Electronics Co., Ltd.
6F, No. 1, Pau-Sheng Road

TW

00-04-CD (hex) Extenway Solutions Inc
0004CD (base 16) Extenway Solutions Inc
500 boul. Morgan
Baie-d'Urfe Quebec H9X 3V1
CA

00-04-C0 (hex) Cisco Systems, Inc
0004C0 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-04-BA (hex) KDD Media Will Corporation
0004BA (base 16) KDD Media Will Corporation
2-1-23 Nakameguro
153-0061
JP

00-04-B6 (hex) Stratex Networks, Inc.
0004B6 (base 16) Stratex Networks, Inc.
64 White Road
Cape Town 7945
ZA

00-04-B3 (hex) Videotek, Inc.
0004B3 (base 16) Videotek, Inc.
243 Shoemaker Rd.
Pottstown PA 19464
US

00-04-E9 (hex) Infiniswitch Corporation
0004E9 (base 16) Infiniswitch Corporation
134 Flanders Road
Westborough MA 01581
US

00-04-E8
(hex) IER, Inc.
0004E8 (base 16) IER, Inc.

4501 So. General Bruce Dr
Temple TX 76502
US

00-05-09 (hex) AVOC Nishimura Ltd.
000509 (base 16) AVOC Nishimura Ltd.
Jogasaki 4-16-14

JP

00-04-FB (hex) Commtech, Inc.
0004FB (base 16) Commtech, Inc.
9011 E. 37th Street
Wichita KS 67226-2006
US

00-04-A4 (hex) NetEnabled, Inc.
0004A4 (base 16) NetEnabled, Inc.
1275 Kinnear Rd.
Columbus OH 43212
US

00-04-39 (hex) Rosco Entertainment Technology, Inc.
000439 (base 16) Rosco Entertainment Technology, Inc.
2181 NW Front Ave.
Portland OR 97209
US

00-04-3A (hex) Intelligent Telecommunications, Inc.
00043A (base 16) Intelligent Telecommunications, Inc.
1687-2, Sinil-dong
SOUTH KOREA 306-230
KR

00-04-3F (hex) ESTeem Wireless Modems, Inc
00043F (base 16) ESTeem Wireless Modems, Inc
415 N. Quay St., Suite 4
Kennewick WA 99336
US

00-04-33
(hex) Cyberboard A/S
000433 (base 16) Cyberboard A/S
Kloevermarken 120

DK

00-04-34 (hex) Accelent Systems, Inc.

000434 (base 16) Accelent Systems, Inc.
2620 Ridgewood Rd.,
Akron OH 44313
US

00-04-2D (hex) Sarian Systems, Ltd.
00042D (base 16) Sarian Systems, Ltd.
Beacon House
West Yorkshire ENGLAND LS29 8JZ
GB

00-04-73 (hex) Photonex Corporation
000473 (base 16) Photonex Corporation
8C Preston Court
Bedford MA 01730
US

00-04-70 (hex) ipUnplugged AB
000470 (base 16) ipUnplugged AB
Box 10160

SE

00-04-6C (hex) Cyber Technology Co., Ltd.
00046C (base 16) Cyber Technology Co., Ltd.
1-45 Yeo Wol-Dong
Kyeong Gi-Do Kyeong Gi-Do KOREA
KR

00-04-71 (hex) IPrad
000471 (base 16) IPrad
24 Raoul Wallenberg St.

IL

00-04-6E (hex) Cisco Systems, Inc
00046E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-04-74
(hex) LEGRAND
000474 (base 16) LEGRAND
145 Avenue De Lattre

FR

00-04-16 (hex) Parks S/A Comunicacoes Digitais
000416 (base 16) Parks S/A Comunicacoes Digitais
Av. Pernambuco, 1001

BR

00-04-0F (hex) Asus Network Technologies, Inc.
00040F (base 16) Asus Network Technologies, Inc.
11-1, No. 675, Sec. 1, King-kuo Rd.,
TAIWAN TAIWAN R.O.C.
TW

00-04-0A (hex) Sage Systems
00040A (base 16) Sage Systems
1420 Harbor Bay Parkway
Alameda CA 94502
US

00-04-04 (hex) Makino Milling Machine Co., Ltd.
000404 (base 16) Makino Milling Machine Co., Ltd.
4023 Nakatsu, Aikawa-machi
Aiko-gun Kanagawa 243-0303
JP

00-04-05 (hex) ACN Technologies
000405 (base 16) ACN Technologies
9F, HeyKang B/D, 157-36
Seoul KOREA #135-090
KR

00-04-01 (hex) Osaki Electric Co., Ltd.
000401 (base 16) Osaki Electric Co., Ltd.
1131, Fujikubo, Miyoshimachi,

JP

00-03-F4 (hex) NetBurner
0003F4 (base 16) NetBurner
5405 Morehouse Drive
San Diego CA 92121
US

00-03-F2 (hex) Seneca Networks
0003F2 (base 16) Seneca Networks
30 West Gude Dr.
Rockville MD 20850
US

00-04-2E (hex) Netous Technologies, Ltd.
00042E (base 16) Netous Technologies, Ltd.
1006, Block A,
HONG KONG
HK

00-04-25 (hex) Atmel Corporation
000425 (base 16) Atmel Corporation
Multimedia & Communications Group
Morrisville NC 27560
US

00-04-1B (hex) Bridgeworks Ltd.
00041B (base 16) Bridgeworks Ltd.
Unit 1 Aero Centre Ampress Park
Lymington Hampshire SO41 8QF
GB

00-03-E3 (hex) Cisco Systems, Inc
0003E3 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-03-DB (hex) Apogee Electronics Corp.
0003DB (base 16) Apogee Electronics Corp.
1715 Berkeley St.
Santa Monica CA 90405-3210
US

00-03-D2 (hex) Crossbeam
Systems, Inc.
0003D2 (base 16) Crossbeam Systems, Inc.
80 Central Street
Boxborough MA 01719
US

00-03-F0 (hex) Redfern Broadband Networks
0003F0 (base 16) Redfern Broadband Networks
Level 1, 1 Central Ave.,

AU

00-03-EB (hex) Atrica
0003EB (base 16) Atrica
5 Shenkar St. P.O.B. 12231
46733 46733

IL

00-03-E7 (hex) Logostek Co. Ltd.
0003E7 (base 16) Logostek Co. Ltd.
19th 15 Sunusu-Academy Tower
Seoul KOREA 133-123
KR

00-04-4C (hex) JENOPTIK
00044C (base 16) JENOPTIK
Laser, Optik, Systeme GmbH

DE

00-04-44 (hex) Western Multiplex Corporation
000444 (base 16) Western Multiplex Corporation
1196 Borregas Avenue
Sunnyvale CA 94089
US

00-04-5D (hex) BEKA Elektronik
00045D (base 16) BEKA Elektronik
Siemenstraße 29
Erftstadt 50374
DE

00-04-59 (hex) Veristar Corporation
000459 (base 16) Veristar Corporation
727
Allston Way
Berkeley CA 94710
US

00-03-B6 (hex) QSI Corporation
0003B6 (base 16) QSI Corporation
2212 South West Temple #50
Salt Lake City UT 84115
US

00-03-B1 (hex) ICU Medical, Inc.
0003B1 (base 16) ICU Medical, Inc.
951 Calle Amanecer
San Clemente CA 92673
US

00-03-B3 (hex) IA Link Systems Co., Ltd.
0003B3 (base 16) IA Link Systems Co., Ltd.
6F-4, No. 81 Hsin Tai

TAIWAN TAIWAN R.O.C.
TW

00-03-AD (hex) Emerson Energy Systems AB
0003AD (base 16) Emerson Energy Systems AB
PO Box 92113

SE

00-03-A7 (hex) Unixtar Technology, Inc.
0003A7 (base 16) Unixtar Technology, Inc.
13F No. 100 Ming Chuan Road
TAIWAN
TW

00-03-AE (hex) Allied Advanced Manufacturing Pte, Ltd.
0003AE (base 16) Allied Advanced Manufacturing Pte, Ltd.
7 International Business Park
Singapore 609919
SG

00-03-63 (hex) Miraesys Co., Ltd.
000363 (base 16) Miraesys
Co., Ltd.
650-2 4 Fl. Daemyung Bldg.
135-080
KR

00-03-5F (hex) Prüftechnik Condition Monitoring GmbH & Co. KG
00035F (base 16) Prüftechnik Condition Monitoring GmbH & Co. KG
Franz-Bayer-Straße 14

DE

00-03-60 (hex) PAC Interactive Technology, Inc.
000360 (base 16) PAC Interactive Technology, Inc.
6F, No. 30, Alley 18, Lane 478
Taipei
TW

00-03-61 (hex) Widcomm, Inc.
000361 (base 16) Widcomm, Inc.
9645 Scranton Road
San Diego CA 92121
US

00-03-59 (hex) DigitalSis
000359 (base 16) DigitalSis

B-1405 Samho Bldg.
Seocho Seoul,
KR

00-03-52 (hex) Colubris Networks
000352 (base 16) Colubris Networks
440 Armand-Frappier
H7V 4B4
CA

00-03-A3 (hex) MAVIX, Ltd.
0003A3 (base 16) MAVIX, Ltd.
POB 217, Yokneam Illit,
20692
IL

00-03-A1 (hex) HIPER Information & Communication, Inc.
0003A1 (base 16) HIPER Information & Communication, Inc.
1675-7,
Sinil-dong,
306-230 South Korea
KR

00-03-96 (hex) EZ Cast Co., Ltd.
000396 (base 16) EZ Cast Co., Ltd.
6th Floor, JungAng Building,
KOREA
KR

00-03-9A (hex) SiConnect
00039A (base 16) SiConnect
Delta 100
Swindon SN5 7XP
GB

00-03-94 (hex) Connect One
000394 (base 16) Connect One
2 Hanagar Street

IL

00-03-8A (hex) America Online, Inc.
00038A (base 16) America Online, Inc.
44900 Prentice Drive
Dulles VA 20166
US

00-03-8D (hex) PCS Revenue Control Systems, Inc.

00038D (base 16) PCS Revenue Control Systems, Inc.
560 Sylvan Ave.
Englewood Cliffs NJ 07632
US

00-03-88 (hex) Fastfame Technology Co., Ltd.
000388 (base 16) Fastfame Technology Co., Ltd.
7F, No. 111, Hsing De Rd.,
TAIWAN TAIWAN R.O.C.
TW

00-03-D0 (hex) KOANKEISO Co., Ltd.
0003D0 (base 16) KOANKEISO Co., Ltd.
Zip Code 791-8042

JP

00-03-CF
(hex) Muxcom, Inc.
0003CF (base 16) Muxcom, Inc.
D 602, Bundang Technopark #151
Kyungki Do KOREA 463-070
KR

00-03-D1 (hex) Takaya Corporation
0003D1 (base 16) Takaya Corporation
Development Division

JP

00-03-7E (hex) PORTech Communications, Inc.
00037E (base 16) PORTech Communications, Inc.
150, Shiang-Shung N. Rd.,
Taichung Taiwan 403, R.O.C.
TW

00-03-74 (hex) Control Microsystems
000374 (base 16) Control Microsystems
48 Steacie Drive
Ottawa Ontario K2K 2A9
CA

00-03-76 (hex) Graphtec Technology, Inc.
000376 (base 16) Graphtec Technology, Inc.
45 Parker, Suite A
Irvine CA 92618
US

00-03-78 (hex) HUMAX Co., Ltd.
000378 (base 16) HUMAX Co., Ltd.
271-2, Suh-hyun-Dong,

KR

00-03-6D (hex) Runtop, Inc.
00036D (base 16) Runtop, Inc.
1, Lane 21, Hsin Hua Road, Kueishan

TW

00-03-6E (hex) Nicon Systems (Pty) Limited
00036E
(base 16) Nicon Systems (Pty) Limited
11 Termo Street

ZA

00-03-71 (hex) Acomz Networks Corp.
000371 (base 16) Acomz Networks Corp.
7th Fl., Wooseok Bldg., 1007-37
Seoul 156-09
KR

00-03-4C (hex) Shanghai DigiVision Technology Co., Ltd.
00034C (base 16) Shanghai DigiVision Technology Co., Ltd.
11F, Heng Tong
Shanghai 200050
CN

00-03-49 (hex) Vidicode Datacommunicatie B.V.
000349 (base 16) Vidicode Datacommunicatie B.V.
Postbus 7164

NL

00-03-3E (hex) Tateyama System Laboratory Co., Ltd.
00033E (base 16) Tateyama System Laboratory Co., Ltd.
30 Shimonoban Oyama-cho
930-1305
JP

00-03-3C (hex) Daiden Co., Ltd.
00033C (base 16) Daiden Co., Ltd.
2100-19 Tutumi, Kamimine-machi

JP

00-03-1F (hex) Condev Ltd.
00031F (base 16) Condev Ltd.
200-1626 West 2nd Ave.

CA

00-02-9F (hex) L-3 Communication Aviation Recorders
00029F (base
16) L-3 Communication Aviation Recorders
P.O. Box 3041
Sarasota FL 34230
US

00-03-1B (hex) Cellvision Systems, Inc.
00031B (base 16) Cellvision Systems, Inc.
3F-1, 75, Hsin Taiwu Road, Sec. 1

TW

00-03-1C (hex) Svenska Hardvarufabriken AB
00031C (base 16) Svenska Hardvarufabriken AB
Ole Romersvag 16, Ideon

SE

00-01-A8 (hex) Welltech Computer Co., Ltd.
0001A8 (base 16) Welltech Computer Co., Ltd.
13F-4, no. 150, Jian Yi Road
TAIWAN TAIWAN R.O.C.
TW

00-03-17 (hex) Merlin Systems, Inc.
000317 (base 16) Merlin Systems, Inc.
3900 New Park Mall Rd.
Newark CA 94560
US

00-03-18 (hex) Cyras Systems, Inc.
000318 (base 16) Cyras Systems, Inc.
47100 Bayside Parkway
Fremont CA 94538
US

00-03-0C (hex) Telesoft Technologies Ltd.
00030C (base 16) Telesoft Technologies Ltd.
Observatory House, Stour Park,

GB

00-03-08 (hex) AM Communications,
Inc.
000308 (base 16) AM Communications, Inc.
100 Commerce Blvd.
Quakertown PA 18951
US

00-03-07 (hex) Secure Works, Inc.
000307 (base 16) Secure Works, Inc.
11 Executive Drive
Atlanta GA 30329
US

00-03-06 (hex) Fusion In Tech Co., Ltd.
000306 (base 16) Fusion In Tech Co., Ltd.
6Fl, Daeyoon Bldg. 1688-5, Seocho-dong
Seoul,
KR

00-02-FC (hex) Cisco Systems, Inc
0002FC (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-02-9E (hex) Information Equipment Co., Ltd.
00029E (base 16) Information Equipment Co., Ltd.
740-1 Eaho Bldg., Yeok Sam-Dong
Seoul Korea #135-080
KR

00-02-9B (hex) Kreatel Communications AB
00029B (base 16) Kreatel Communications AB
Teknikringen 4C

SE

00-02-95 (hex) IP.Access Limited
000295 (base 16) IP.Access Limited
Melbourn Science Park
SG8 6EE SG8 6EE U.K.
GB

00-02-93 (hex) Solid
Data Systems
000293 (base 16) Solid Data Systems

2945 Oakmead Village Court
Santa Clara CA 95051
US

00-03-2A (hex) UniData Communication Systems, Inc.
00032A (base 16) UniData Communication Systems, Inc.
2F, OhSung-Bldg, 82-15,

KR

00-03-25 (hex) Arima Computer Corp.
000325 (base 16) Arima Computer Corp.
6th Fl., No. 327,

TW

00-02-FA (hex) DX Antenna Co., Ltd.
0002FA (base 16) DX Antenna Co., Ltd.
2-15 Hamazaki-Dori,

JP

00-02-FB (hex) Baumuller Aulugen-Systemtechnik GmbH
0002FB (base 16) Baumuller Aulugen-Systemtechnik GmbH
Ostendsts. 84

DE

00-02-F6 (hex) Equipe Communications
0002F6 (base 16) Equipe Communications
100 Nagog Park
Acton MA 01720
US

00-02-23 (hex) ClickTV
000223 (base 16) ClickTV
Kemong Bldg., 4th Fl.,
Seoul Korea 135-010
KR

00-02-CB (hex) TriState Ltd.
0002CB (base 16) TriState Ltd.
Shinonaga
Blg. 4-11-19 Hokko-cho
053-0852 053-0852
JP

00-02-CA (hex) EndPoints, Inc.

0002CA (base 16) EndPoints, Inc.
4 Preston Court
Bedford MA 01730
US

00-02-C4 (hex) OPT Machine Vision Tech Co., Ltd
0002C4 (base 16) OPT Machine Vision Tech Co., Ltd
no. 8 JInSheng Road, JinXia Zone, Chang'An Town
Dongguan Guangdong 523000
CN

00-02-BF (hex) dotRocket, Inc.
0002BF (base 16) dotRocket, Inc.
1901 S. Bascom, Suite 300
Campbell CA 95008
US

00-02-E3 (hex) LITE-ON Communications, Inc.
0002E3 (base 16) LITE-ON Communications, Inc.
736 S. Hillview Drive
Milpitas CA 95035
US

00-02-DD (hex) Bromax Communications, Ltd.
0002DD (base 16) Bromax Communications, Ltd.
No. 20 Kuang Fu Road,
Hsin Chu 303
TW

00-02-A7 (hex) Vivace Networks
0002A7 (base 16) Vivace Networks
2730 Orchard Parkway
San Jose CA 95134
US

00-02-72 (hex) CC&C Technologies, Inc.
000272
(base 16) CC&C Technologies, Inc.
8F, 150, Chien I Rd., Chung Ho City,
Taipei County 235 Taiwan R.O.C.
TW

00-02-6D (hex) Adept Telecom
00026D (base 16) Adept Telecom
Avenue de l'Europe

FR

00-02-6B (hex) BCM Computers Co., Ltd.
00026B (base 16) BCM Computers Co., Ltd.
6F-6, No. 66, Sec 2,
TAIWAN TAIWAN R.O.C.
TW

00-02-66 (hex) Thermalogic Corporation
000266 (base 16) Thermalogic Corporation
22 Kane Industrial Drive
Hudson MA 01749
US

00-02-68 (hex) Harris Government Communications
000268 (base 16) Harris Government Communications
Systems Division
Melbourne FL 32902
US

00-02-5E (hex) High Technology Ltd
00025E (base 16) High Technology Ltd
Chongqing Jinghong
People's Republic of
CN

00-02-60 (hex) Accordion Networks, Inc.
000260 (base 16) Accordion Networks, Inc.
39899 Balentine Drive, #335
Newark CA 94560
US

00-01-2F (hex) Twinhead
International Corp
00012F (base 16) Twinhead International Corp
2FL, 2, Lane 235, Bao-Chiao Road
TAIWAN TAIWAN R.O.C.
TW

00-02-47 (hex) Great Dragon Information Technology (Group) Co., Ltd.
000247 (base 16) Great Dragon Information Technology (Group) Co., Ltd.
169 Beiyuan Rd.,
Beijing 100101,
CN

00-02-43 (hex) Raysis Co., Ltd.
000243 (base 16) Raysis Co., Ltd.
997-10, Daechi-Dong, Kangnam-Ku,
Seoul 135-280, South Korea
KR

00-02-09 (hex) Shenzhen SED Information Technology Co., Ltd.
000209 (base 16) Shenzhen SED Information Technology Co., Ltd.
4/F., West Block, Block 414, Zhenhua Rd.

CN

00-02-06 (hex) Telital R&D Denmark A/S
000206 (base 16) Telital R&D Denmark A/S
9530 Stouring

DK

00-02-02 (hex) Amino Communications, Ltd.
000202 (base 16) Amino Communications, Ltd.
Times House
UK CB4 5LH
GB

00-02-01 (hex) IFM Electronic gmbh
000201 (base
16) IFM Electronic gmbh
Bechlingen 34

DE

00-90-64 (hex) Thomson Inc.
009064 (base 16) Thomson Inc.
101 West 103rd Street
Indianapolis IN 46290-1102
US

00-02-7A (hex) IOI Technology Corporation
00027A (base 16) IOI Technology Corporation
4F-3 No. 125 Lane 235,
Taipei TAIWAN, R.O.C.
TW

00-02-74 (hex) Tommy Technologies Corp.
000274 (base 16) Tommy Technologies Corp.
#407 Heehoon Bld
Seoul Seoul KOREA
KR

00-02-89 (hex) DNE Technologies
000289 (base 16) DNE Technologies
50 Barnes Park N
Wallingford CT 06492

US

00-02-83 (hex) Spectrum Controls, Inc.
000283 (base 16) Spectrum Controls, Inc.
PO Box 5533
Bellevue WA 98006
US

00-02-84 (hex) UK Grid Solutions Limited
000284 (base 16) UK Grid Solutions Limited
St Leonards Building Redhill Business Park
Stafford ST16 1TW
GB

00-02-80 (hex) Mu Net, Inc.
000280 (base 16) Mu Net, Inc.
442
Marrett Road
Lexington MA 02421
US

00-02-31 (hex) Ingersoll-Rand
000231 (base 16) Ingersoll-Rand
1467 Route 31 South
Annandale NJ 08801
US

00-02-34 (hex) Imperial Technology, Inc.
000234 (base 16) Imperial Technology, Inc.
2305 Utah Avenue
El Segundo CA 90245
US

00-02-36 (hex) INIT GmbH
000236 (base 16) INIT GmbH
Kaeppelestraße 6

DE

00-02-2B (hex) SAXA, Inc.
00022B (base 16) SAXA, Inc.
NBF Platinum Tower 1-17-3 Shirokane
Minato-ku Tokyo 108-8050
JP

00-02-24 (hex) C-COR
000224 (base 16) C-COR
15 Sterling Drive

Wallingford CT 06492
US

00-02-1F (hex) Aculab PLC
00021F (base 16) Aculab PLC
Lakeside, Bramley Road
Milton Keynes MK1 1PT
GB

00-02-1A (hex) Zuma Networks
00021A (base 16) Zuma Networks
8403 Fallbrook Ave.
West Hills CA 91304
US

00-02-22 (hex) Chromisys, Inc.
000222 (base 16) Chromisys, Inc.
1012
Stewart Drive
Sunnyvale CA 94086
US

00-01-EF (hex) Camtel Technology Corp.
0001EF (base 16) Camtel Technology Corp.
No. 2, Wu-Kung 5 Rd., Wu-Ku
Taiwan Taiwan R.O.C.
TW

00-02-13 (hex) S.D.E.L.
000213 (base 16) S.D.E.L.
Aeropole D2A

FR

00-02-0A (hex) Gefran Spa
00020A (base 16) Gefran Spa
Via Sebina, 74

IT

00-01-D1 (hex) CoNet Communications, Inc.
0001D1 (base 16) CoNet Communications, Inc.
25 Mauchly, #320
Irvine CA 92618
US

00-01-B2 (hex) Digital Processing Systems, Inc.
0001B2 (base 16) Digital Processing Systems, Inc.

70 Valleywood Drive
L3R 4T5
CA

00-01-B8 (hex) Netsensity, Inc.
0001B8 (base 16) Netsensity, Inc.
PO Box 1060
Lake Forest CA 92630
US

00-01-B9 (hex) SKF (U.K.) Limited
0001B9 (base 16) SKF (U.K.) Limited
2 Michaelson Square Kirkton Campus
Livingston West Lothian EH54 7DP
GB

00-01-BD
(hex) Peterson Electro-Musical Products, Inc.
0001BD (base 16) Peterson Electro-Musical Products, Inc.
11601 S. Mayfield Avenue
Alsip IL 60803-2476
US

00-01-B3 (hex) Precision Electronic Manufacturing
0001B3 (base 16) Precision Electronic Manufacturing
P0187, P.O. 527948
Miami FL 33152-7948
US

00-01-4E (hex) WIN Enterprises, Inc.
00014E (base 16) WIN Enterprises, Inc.
300 Willow Street South
North Andover MA 01845
US

00-30-73 (hex) International Microsystems, In
003073 (base 16) International Microsystems, In
521 Valley Way
Milpitas CA 95035
US

00-30-3F (hex) TurboComm Tech Inc.
00303F (base 16) TurboComm Tech Inc.
4F-2, No 171, Sung-Tch Road
Taipei
TW

00-01-95 (hex) Sena Technologies, Inc.

000195 (base 16) Sena Technologies, Inc.
116-23 Shinlim-dong
KOREA
KR

00-01-84 (hex) SIEB & MEYER AG
000184 (base 16) SIEB & MEYER AG
Auf dem Schmaarkamp
21

DE

00-01-8E (hex) Logitec Corporation
00018E (base 16) Logitec Corporation
8268 Rokudouhara, Misuzu

JP

00-01-79 (hex) WIRELESS TECHNOLOGY, INC.
000179 (base 16) WIRELESS TECHNOLOGY, INC.
Anam Bldg. 2Fl, 154-17
KOREA
KR

00-01-60 (hex) ELMEX Co., LTD.
000160 (base 16) ELMEX Co., LTD.
16-30 Kimachi

JP

00-01-6D (hex) CarrierComm Inc.
00016D (base 16) CarrierComm Inc.
2231 Rutherford, Suite 110
Carlsbad CA 92008
US

00-01-6A (hex) ALITEC
00016A (base 16) ALITEC
Laval Technopole B.P. 102

FR

00-01-6F (hex) Inkel Corp.
00016F (base 16) Inkel Corp.
CheongCheon-Dong, BuPyeong-Gu,
Incheon-Si
KR

00-01-70 (hex) ESE Embedded System Engineer'g
000170 (base 16) ESE Embedded System Engineer'g
Mühlbachstraße 20

DE

00-01-B7 (hex) Centos, Inc.
0001B7 (base 16) Centos, Inc.
6F-1, NO. 15, LANE 360
TAIWAN
TAIWAN R.O.C.
TW

00-01-B5 (hex) Turin Networks, Inc.
0001B5 (base 16) Turin Networks, Inc.
1415 North McDowell Blvd.
Petaluma CA 94954
US

00-01-7E (hex) ADTEK System Science Co., Ltd.
00017E (base 16) ADTEK System Science Co., Ltd.
YBP West Tower
Hodogaya Yokohama
JP

00-01-83 (hex) ANITE TELECOMS
000183 (base 16) ANITE TELECOMS
127 Fleet Road, Fleet
UNITED KINGDOM
GB

00-01-DB (hex) Freecom Technologies GmbH
0001DB (base 16) Freecom Technologies GmbH
Obentrautstraße 72

DE

00-01-DF (hex) ISDN Communications, Ltd.
0001DF (base 16) ISDN Communications, Ltd.
The Stable Block, Ronans
ENGLAND
GB

00-01-CA (hex) Geocast Network Systems, Inc.
0001CA (base 16) Geocast Network Systems, Inc.
190 Independence Drive
Menlo Park CA 94025
US

00-01-A4 (hex) Microlink Corporation
0001A4 (base 16) Microlink Corporation
11110 Ohio Ave.,
- Ste. #108
Los Angeles CA 90034
US

00-30-5C (hex) SMAR Laboratories Corp.
00305C (base 16) SMAR Laboratories Corp.
10960 Millridge North - Ste. #107
Houston TX 77070
US

00-30-04 (hex) LEADTEK RESEARCH INC.
003004 (base 16) LEADTEK RESEARCH INC.
18F, No.166, Chien-Yi Road
Hsien
TW

00-30-F9 (hex) Sollae Systems Co., Ltd.
0030F9 (base 16) Sollae Systems Co., Ltd.
607 Incheo IT Tower
Nam-gu Incheon
KR

00-30-02 (hex) Expand Networks
003002 (base 16) Expand Networks
Atidim Tech Park, Bldg. 4
Tel-Aviv 61580
IL

00-30-78 (hex) Cisco Systems, Inc
003078 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-B0-F5 (hex) NetWorth Technologies, Inc.
00B0F5 (base 16) NetWorth Technologies, Inc.
1000 Germantown Pike
Plymouth Metting PA 19462
US

00-B0-DB (hex) Nextcell, Inc.
00B0DB (base 16) Nextcell, Inc.
651 East

18th Street
Plano TX 75074
US

00-B0-AE (hex) Symmetricom
00B0AE (base 16) Symmetricom
2300 Orchard Parkway
San Jose CA 95131
US

00-B0-E7 (hex) British Federal Ltd.
00B0E7 (base 16) British Federal Ltd.
Castle Mill Works
Dudley DY1 4DA England
GB

00-B0-8E (hex) Cisco Systems, Inc
00B08E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-01-18 (hex) EZ Digital Co., Ltd.
000118 (base 16) EZ Digital Co., Ltd.
Bitville Bldg. Room 703
Seoul
KR

00-01-28 (hex) EnjoyWeb, Inc.
000128 (base 16) EnjoyWeb, Inc.
3000 Scott Blvd. #107
Santa Clara CA 95054
US

00-01-1C (hex) Universal Talkware Corporation
00011C (base 16) Universal Talkware Corporation
10 Second St. NE
Minneapolis MN 55413
US

00-01-0C (hex) System Talks Inc.
00010C (base 16) System Talks Inc.
4F, PrimeNihonbashi Bld.
Chuo-ku Tokyo
JP

00-01-11

(hex) iDigm Inc.
000111 (base 16) iDigm Inc.
7FL Sindo B/D 1604-22 Seocho-Dong
Seoul 137-070
KR

00-01-35 (hex) KDC Corp.
000135 (base 16) KDC Corp.
200-11 AnYang 7 dong
KOREA
KR

00-01-41 (hex) CABLE PRINT
000141 (base 16) CABLE PRINT
Jozef Cardynstraat 16

BE

00-01-46 (hex) Tesco Controls, Inc.
000146 (base 16) Tesco Controls, Inc.
P.O. Box 239012
Sacramento CA 95823-9012
US

00-01-49 (hex) TDT AG
000149 (base 16) TDT AG
Siemensstraße 18
Essenbach 84051
DE

00-01-65 (hex) AirSwitch Corporation
000165 (base 16) AirSwitch Corporation
37East 200South
Springville UT 84663
US

00-01-56 (hex) FIREWIREDIRECT.COM, INC.
000156 (base 16) FIREWIREDIRECT.COM, INC.
4132 Spicewood Springs Rd - #I-4
Austin TX 78759
US

00-01-53 (hex) ARCHTEK TELECOM CORPORATION
000153 (base 16) ARCHTEK TELECOM CORPORATION
4F, No.9 Lane 130,
Min-Chyuan Rd.
231 TAIWAN
TW

00-30-BE (hex) City-Net Technology, Inc.
0030BE (base 16) City-Net Technology, Inc.
135 E. Chesnut Ave., Ste.
Monrovia CA 91016
US

00-30-92 (hex) Kontron Electronics AG
003092 (base 16) Kontron Electronics AG
Riedstrasse 1
Rotkreuz CH-6343
CH

00-01-14 (hex) KANDA TSUSHIN KOGYO CO., LTD.
000114 (base 16) KANDA TSUSHIN KOGYO CO., LTD.
23-2, Nishi-Gotanda 2-chome,
Tokyo 141-8533
JP

00-01-07 (hex) Leiser GmbH
000107 (base 16) Leiser GmbH
Ilmstr. 7
85579 Neubiberg
DE

00-01-0B (hex) Space CyberLink, Inc.
00010B (base 16) Space CyberLink, Inc.
5th Fl. Guppyung Town B
Seoul
KR

00-B0-DF (hex) Starboard Storage Systems
00B0DF (base 16) Starboard Storage Systems
12303 Airport Way
Broomfield Co 80021
US

00-01-31 (hex) Bosch Security Systems, Inc.
000131 (base 16) Bosch Security Systems, Inc.
130 Perinton
Parkway
Fairport NY 14450
US

00-30-7E (hex) Redflex Communication Systems
00307E (base 16) Redflex Communication Systems
11-29 Eastern Road
South Melbourne Victoria 3205

AU

00-30-4F (hex) PLANET Technology Corporation
00304F (base 16) PLANET Technology Corporation
11F, No. 96, Min-Chuan Road
Hsin-Tien Dist., New Taipei City
TW

00-30-22 (hex) Fong Kai Industrial Co., Ltd.
003022 (base 16) Fong Kai Industrial Co., Ltd.
4F-3, No. 13, Wu Chuan 1st Road
Hsin Chuang City, Taipei Hsien
TW

00-30-70 (hex) 1Net Corporation
003070 (base 16) 1Net Corporation
347 Elizabeth Avenue - Ste. #100
Somerset NJ 08873
US

00-30-F8 (hex) Dynapro Systems, Inc.
0030F8 (base 16) Dynapro Systems, Inc.
800 Carleton Court
New Westminster British Columbia V3M 6L3
CA

00-30-E7 (hex) CNF MOBILE SOLUTIONS, INC.
0030E7 (base 16) CNF MOBILE SOLUTIONS, INC.
7722 E. GRAY ROAD
SCOTTSDALE
AZ 85260
US

00-30-43 (hex) IDREAM TECHNOLOGIES, PTE. LTD.
003043 (base 16) IDREAM TECHNOLOGIES, PTE. LTD.
54 KALLANG BAHRU, #02-14

SG

00-30-B4 (hex) INTERSIL CORP.
0030B4 (base 16) INTERSIL CORP.
P.O. BOX 883
MELBOURNE FL 32902
US

00-30-56 (hex) HMS Industrial Networks
003056 (base 16) HMS Industrial Networks
P O Box 4126

Halmstad Halland 300 04
SE

00-30-50 (hex) Versa Technology
003050 (base 16) Versa Technology
4430 E. Miraloma Ave., - Ste.
Anaheim CA 92807
US

00-30-C0 (hex) Lara Technology, Inc.
0030C0 (base 16) Lara Technology, Inc.
2345 North First Street
San Jose CA 95131
US

00-30-05 (hex) Fujitsu Siemens Computers
003005 (base 16) Fujitsu Siemens Computers
Buergermeister ulrich 100
86199 Augsburg
DE

00-30-8F (hex) MICRILOR, Inc.
00308F (base 16) MICRILOR, Inc.
17 Lakeside Office Park
Wakefield MA 01880
US

00-30-9C
(hex) Timing Applications, Inc.
00309C (base 16) Timing Applications, Inc.
4775 Walnut St.
Boulder CO 80301
US

00-30-09 (hex) Tachion Networks, Inc.
003009 (base 16) Tachion Networks, Inc.
2 Meridian Road
Eatontown NJ 07724
US

00-30-7A (hex) Advanced Technology & Systems
00307A (base 16) Advanced Technology & Systems
Yokohama Business Park East Tower 9F,
240-0005
JP

00-30-61 (hex) MobyTEL
003061 (base 16) MobyTEL

4301 Connecticut Ave. NW
Washington DC 20008
US

00-30-B1 (hex) TrunkNet
0030B1 (base 16) TrunkNet
Aubergenviller Allee 51
Dieburg D-64807
DE

00-30-E0 (hex) OXFORD SEMICONDUCTOR LTD.
0030E0 (base 16) OXFORD SEMICONDUCTOR LTD.
25 MILTON PARK
Abingdon Oxon OX14 4SH
GB

00-30-64 (hex) ADLINK TECHNOLOGY, INC.
003064 (base 16) ADLINK TECHNOLOGY, INC.
9F, NO. 166, JIEN-YI R.D.
CHUNG-HO CITY TAIPEI
TW

00-30-DB
(hex) Mindready Solutions, Inc.
0030DB (base 16) Mindready Solutions, Inc.
2800 Marie-Curie Avenue
Quebec H4S 2C2
CA

00-30-B3 (hex) San Valley Systems, Inc.
0030B3 (base 16) San Valley Systems, Inc.
2105 S. Bascom Ave. - Ste. #390
Campbell CA 95008
US

00-30-C7 (hex) Macromate Corp.
0030C7 (base 16) Macromate Corp.
8F,Universal Center,Number 179
Taipei Hsien
TW

00-30-E4 (hex) CHIYODA SYSTEM RIKEN
0030E4 (base 16) CHIYODA SYSTEM RIKEN
2-7, KANDA-NISHIKI-CHO

JP

00-30-66 (hex) RFM

003066 (base 16) RFM
3079 Premiere Pkwy
Duluth GA 30097
US

00-30-31 (hex) LIGHTWAVE COMMUNICATIONS, INC.
003031 (base 16) LIGHTWAVE COMMUNICATIONS, INC.
261 PEPE'S FARM ROAD
MILFORD CT 06460
US

00-30-60 (hex) Powerfile, Inc.
003060 (base 16) Powerfile, Inc.
3350 Thomas Road
Santa Clara CA 95054-2062
US

00-30-A0 (hex) TYCO SUBMARINE SYSTEMS,
LTD.
0030A0 (base 16) TYCO SUBMARINE SYSTEMS, LTD.
250 INDUSTRIAL WAY WEST
EATONTOWN NJ 07724
US

00-30-15 (hex) CP CLARE CORP.
003015 (base 16) CP CLARE CORP.
78 CHERRY HILL DRIVE
BEVERLY MA 01915
US

00-30-00 (hex) ALLWELL TECHNOLOGY CORP.
003000 (base 16) ALLWELL TECHNOLOGY CORP.
4F, #15, LANE3, SEC.2
TAIWAN TAIWAN R.O.C.
TW

00-30-11 (hex) HMS Industrial Networks
003011 (base 16) HMS Industrial Networks
P O Box 4126
SE-300 04
SE

00-30-4B (hex) ORBACOM SYSTEMS, INC.
00304B (base 16) ORBACOM SYSTEMS, INC.
1704 TAYLORS LANE
CINNAMINSON NJ 08077
US

00-30-FA (hex) TELICA, INC.
0030FA (base 16) TELICA, INC.
734 FOREST STREET, BLDG.
MARLBORO MA 01752
US

00-30-A5 (hex) ACTIVE POWER
0030A5 (base 16) ACTIVE POWER
11525 STONEHOLLOW - STE.#255
AUSTIN TX 78758
US

00-30-84 (hex) ALLIED TELESYN INTERNAIONAL
003084 (base 16) ALLIED
TELESYN INTERNAIONAL
CORPORATION
SUNNYVALE CA 94086
US

00-30-E9 (hex) GMA COMMUNICATION MANUFACT'G
0030E9 (base 16) GMA COMMUNICATION MANUFACT'G
MARKETING, (1991) LTD.
ISRAEL ISRAEL 49130
IL

00-30-68 (hex) CYBERNETICS TECH. CO., LTD.
003068 (base 16) CYBERNETICS TECH. CO., LTD.
DAITOH BLDG. 4F 3-32-1
JAPAN 171-0033
JP

00-30-91 (hex) TAIWAN FIRST LINE ELEC. CORP.
003091 (base 16) TAIWAN FIRST LINE ELEC. CORP.
40 Chung-Shan Road
Taipei County
TW

00-30-CD (hex) CONEXANT SYSTEMS, INC.
0030CD (base 16) CONEXANT SYSTEMS, INC.
4311 JAMBOREE ROAD
NEWPORT BEACH CA 92660
US

00-30-5B (hex) Toko Inc.
00305B (base 16) Toko Inc.
18 COMIGAYA, TSURUGASHIMA-SHI
JAPAN 350-2281
JP

00-30-29 (hex) OPICOM
003029 (base 16) OPICOM
ROOM #302, STYLE FACTORY 151
KOREA
KR

00-30-83 (hex) Ivron Systems
003083 (base 16) Ivron Systems
19-20 YORK
ROAD

IE

00-30-B6 (hex) Cisco Systems, Inc
0030B6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-D0-3E (hex) ROCKETCHIPS, INC.
00D03E (base 16) ROCKETCHIPS, INC.
7901 XERXES AVE. S.
MINNEAPOLIS MN 55431
US

00-D0-93 (hex) TQ - COMPONENTS GMBH
00D093 (base 16) TQ - COMPONENTS GMBH
GUT DELLING - MUHLSTR 2

DE

00-D0-3F (hex) AMERICAN COMMUNICATION
00D03F (base 16) AMERICAN COMMUNICATION
TECHNOLIGIES INTERNATIONAL INC
ROHNERT PARK CA 94928
US

00-D0-CE (hex) iSystem Labs
00D0CE (base 16) iSystem Labs
BRODISCE 7, 10C
Trzin 1236
SI

00-D0-F9 (hex) ACUTE COMMUNICATIONS CORP.
00D0F9 (base 16) ACUTE COMMUNICATIONS CORP.
NO. 1, CREATION ROAD III
TAIWAN

TW

00-D0-F7 (hex) NEXT NETS CORPORATION
00D0F7 (base 16) NEXT NETS CORPORATION
MITA KOKUSAI BLDG. 17F

JP

00-D0-44 (hex) ALIDIAN NETWORKS,
INC.
00D044 (base 16) ALIDIAN NETWORKS, INC.
1330 W. MIDDLEFIELD ROAD
MOUNTAIN VIEW CA 94043
US

00-D0-18 (hex) QWES. COM, INC.
00D018 (base 16) QWES. COM, INC.
14742 NEWPORT AVE. - STE. #203
TUSTIN CA 92780
US

00-D0-77 (hex) LUCENT TECHNOLOGIES
00D077 (base 16) LUCENT TECHNOLOGIES
CLIENT ACCESS BUSINESS UNIT
HOLMDEL NJ 07733
US

00-D0-28 (hex) Harmonic, Inc
00D028 (base 16) Harmonic, Inc
965 Stewart Drive
Sunnyvale CA 94086-3913
US

00-D0-25 (hex) XROSSTECH, INC.
00D025 (base 16) XROSSTECH, INC.
HABDONG B/D 5F 210-2
KOREA
KR

00-D0-07 (hex) MIC ASSOCIATES, INC.
00D007 (base 16) MIC ASSOCIATES, INC.
1510-1, KAIDOKI
JAPAN JAPAN 206-0012
JP

00-D0-FF (hex) Cisco Systems, Inc
00D0FF (base 16) Cisco Systems, Inc
80 West Tasman Drive

San Jose CA 94568
US

00-D0-5B (hex) ACROLOOP MOTION CONTROL
00D05B (base 16) ACROLOOP MOTION CONTROL
SYSTEMS
CHASKA
MN 55318
US

00-D0-42 (hex) MAHLO GMBH & CO. UG
00D042 (base 16) MAHLO GMBH & CO. UG
DONAUSTRASSE 12

DE

00-D0-31 (hex) INDUSTRIAL LOGIC CORPORATION
00D031 (base 16) INDUSTRIAL LOGIC CORPORATION
15 PIEDMONT CENTER-STE #700
ATLANTA GA 30305
US

00-D0-38 (hex) FIVEMERE, LTD.
00D038 (base 16) FIVEMERE, LTD.
UNIT 1-HERON INDUSTRIAL ESTATE
RG7 1PJ ENGLAND
GB

00-D0-C6 (hex) THOMAS & BETTS CORP.
00D0C6 (base 16) THOMAS & BETTS CORP.
Thomas & Betts Aust. Pty. Ltd.
Lidcombe New South Wales
AU

00-01-A7 (hex) UNEX TECHNOLOGY CORPORATION
0001A7 (base 16) UNEX TECHNOLOGY CORPORATION
8F-5, #130, SZE WEI RD.,
HSINCHU
TW

00-D0-A9 (hex) SHINANO KENSHI CO., LTD.
00D0A9 (base 16) SHINANO KENSHI CO., LTD.
ELECTRONIC EQUIPMENT DIVISION

JP

00-D0-DD (hex) SUNRISE TELECOM, INC.
00D0DD (base 16) SUNRISE TELECOM, INC.

22 GREAT
OAKS BLVD.
SAN JOSE CA 95119
US

00-D0-E6 (hex) IBOND INC.
00D0E6 (base 16) IBOND INC.
3160, DE LA CRUZ BLVD.
SANTA CLARA CA 95054
US

00-D0-D1 (hex) Sycamore Networks
00D0D1 (base 16) Sycamore Networks
220 Mill Rd
Chelmsford MA 01824
US

00-D0-87 (hex) MICROFIRST INC.
00D087 (base 16) MICROFIRST INC.
11 EAST OAK STREET
OAKLAND NJ 07436
US

00-D0-91 (hex) SMARTSAN SYSTEMS, INC.
00D091 (base 16) SMARTSAN SYSTEMS, INC.
4655 OLD IRONSIDES DR. #480
SANTA CLARA CA 95054
US

00-D0-40 (hex) SYSMATE CO., LTD.
00D040 (base 16) SYSMATE CO., LTD.
1091 WOLPYONG-DONG
SOUTH KOREA
KR

00-D0-8C (hex) GENOA TECHNOLOGY, INC.
00D08C (base 16) GENOA TECHNOLOGY, INC.
5401 TECH CIRCLE
MOORPARK CA 93021
US

00-D0-59 (hex) AMBIT MICROSYSTEMS CORP.
00D059 (base 16) AMBIT MICROSYSTEMS CORP.
5F-1, 5 HSIN-AN ROAD
TAIWAN TAIWAN R.O.C.
TW

00-D0-FD

(hex) OPTIMA TELE.COM, INC.
00D0FD (base 16) OPTIMA TELE.COM, INC.
4-20 Cachet Woods Court
Markham ON L6C 3G1
CA

00-D0-27 (hex) APPLIED AUTOMATION, INC.
00D027 (base 16) APPLIED AUTOMATION, INC.
P.O. BOX 9999
BARTLESVILLE OK 74005-9999
US

00-D0-80 (hex) EXABYTE CORPORATION
00D080 (base 16) EXABYTE CORPORATION
1685 38TH STREET
BOULDER CO 80301
US

00-D0-4E (hex) LOGIBAG
00D04E (base 16) LOGIBAG
2, Rue de la Mandinière

FR

00-D0-2C (hex) CAMPBELL SCIENTIFIC, INC.
00D02C (base 16) CAMPBELL SCIENTIFIC, INC.
815 W. 1800 N.
LOGAN UT 84321-1784
US

00-D0-CD (hex) ATAN TECHNOLOGY INC.
00D0CD (base 16) ATAN TECHNOLOGY INC.
#5, ALLEY 18, LANE 81,
TAIWAN TAIWAN R.O.C.
TW

00-D0-A6 (hex) LANBIRD TECHNOLOGY CO., LTD.
00D0A6 (base 16) LANBIRD TECHNOLOGY CO., LTD.
ROOM A-211, S.B.I.
KOREA 157-030
KR

00-D0-49 (hex) IMPRESSTEK CO., LTD.
00D049
(base 16) IMPRESSTEK CO., LTD.
6F, SPECIALTY CONSTRUCTION CTR
302-120 KOREA (REP.)
KR

00-D0-03 (hex) COMDA ENTERPRISES CORP.
00D003 (base 16) COMDA ENTERPRISES CORP.
2F, NO. 501-18, CHUNGCHEN ROAD
TAIWAN TAIWAN ROC
TW

00-D0-D2 (hex) EPILOG CORPORATION
00D0D2 (base 16) EPILOG CORPORATION
500 CORPORATE CIRCLE - STE.
GOLDEN CO 80401
US

00-D0-6F (hex) KMC CONTROLS
00D06F (base 16) KMC CONTROLS
P.O. BOX 497
NEW PARIS IN 46553
US

00-D0-89 (hex) DYNACOLOR, INC.
00D089 (base 16) DYNACOLOR, INC.
No.116, Zhouzi St., Neihu Dist.
Taipei City 114
TW

00-D0-72 (hex) BROADLOGIC
00D072 (base 16) BROADLOGIC
463 S. MILPITAS BLVD.
MILPITAS CA 95035
US

00-D0-E2 (hex) MRT MICRO, INC.
00D0E2 (base 16) MRT MICRO, INC.
14000 S. MILITARY TRAIL
DELRAY BEACH FL 33484
US

00-D0-1A (hex) URMET TLC S.P.A.
00D01A (base 16) URMET TLC S.P.A.
VIA DI
CASTEL ROMANO 167

IT

00-D0-6A (hex) LINKUP SYSTEMS CORPORATION
00D06A (base 16) LINKUP SYSTEMS CORPORATION
1190 COLEMAN AVE.- STE #2C
SAN JOSE CA 95110

US

00-50-F9 (hex) Sensormatic Electronics LLC
0050F9 (base 16) Sensormatic Electronics LLC
1501 Yamato Rd
Boca Raton FL 33431
US

00-50-48 (hex) INFOLIBRIA
005048 (base 16) INFOLIBRIA
411 WAVERLY OAKS RD-STE #323
WALTHAM MA 02154-8414
US

00-50-4E (hex) SIERRA MONITOR CORP.
00504E (base 16) SIERRA MONITOR CORP.
1991 TAROB COURT
MILPITAS CA 95035
US

00-50-D7 (hex) TELSTRAT
0050D7 (base 16) TELSTRAT
3600 AVENUE
PLANO TX 75074
US

00-50-F6 (hex) PAN-INTERNATIONAL INDUSTRIAL CORP.
0050F6 (base 16) PAN-INTERNATIONAL INDUSTRIAL CORP.
GF, NO. 176, CHANG CHUN RD.
TAIPEI
TW

00-50-E6 (hex) HAKUSAN CORPORATION
0050E6 (base 16) HAKUSAN CORPORATION
J TOWER, 1-1, NIKKOU-CHO

JP

00-50-3C
(hex) TSINGHUA NOVEL ELECTRONICS
00503C (base 16) TSINGHUA NOVEL ELECTRONICS
CO., LTD.
100084 100084
CN

00-50-60 (hex) TANDBERG TELECOM AS
005060 (base 16) TANDBERG TELECOM AS
Philip Pedersens vei 20

1361 Lysaker
NO

00-50-EE (hex) TEK DIGITEL CORPORATION
0050EE (base 16) TEK DIGITEL CORPORATION
20010 CENTURY BLVD. #300
GERMANTOWN MD 20874
US

00-50-FF (hex) HAKKO ELECTRONICS CO., LTD.
0050FF (base 16) HAKKO ELECTRONICS CO., LTD.
238, KAMIKASHIWANO-MACHI
MATTO-SHI, ISHIKAWA 924-0035
JP

00-50-D2 (hex) CMC Electronics Inc
0050D2 (base 16) CMC Electronics Inc
600 Dr.Frederik-Philips Blvd
Montreal QC H4M 2S9
CA

00-50-68 (hex) ELECTRONIC INDUSTRIES ASSOCIATION
005068 (base 16) ELECTRONIC INDUSTRIES ASSOCIATION
2500 WILSON BLVD.
ARLINGTON VA 22201
US

00-50-1C (hex) JATOM SYSTEMS, INC.
00501C (base 16) JATOM SYSTEMS, INC.
99 MICHAEL
COWPLAND DRIVE
ONTARIO, K2M 1X3
CA

00-50-7A (hex) XPEED, INC.
00507A (base 16) XPEED, INC.
4699 OLD IRONSIDES DRIVE
SANTA CLARA CA 95054
US

00-50-2E (hex) CAMBEX CORPORATION
00502E (base 16) CAMBEX CORPORATION
115 Flanders Road
Westborough MA 01581
US

00-50-6E (hex) CORDER ENGINEERING CORPORATION
00506E (base 16) CORDER ENGINEERING CORPORATION

151 KALMUS DRIVE - STE #A103
COSTA MESA CA 92626
US

00-50-2C (hex) SOYO COMPUTER, INC.
00502C (base 16) SOYO COMPUTER, INC.
NO. 21 WU-KUNG 5 RD.
TAIWAN TAIWAN R.O.C.
TW

00-D0-CC (hex) TECHNOLOGIES LYRE INC.
00D0CC (base 16) TECHNOLOGIES LYRE INC.
1200 ST-JEAN-BAPTISTE,
CANADA G2E 5E8
CA

00-50-77 (hex) PROLIFIC TECHNOLOGY, INC.
005077 (base 16) PROLIFIC TECHNOLOGY, INC.
6F 1, LANE 51, SEC 1
100
TW

00-50-6C (hex) Beijer Electronics Products AB
00506C (base 16) Beijer Electronics Products
AB
Box 426
SE-201 24 Malmoe
SE

00-50-44 (hex) ASACA CORPORATION
005044 (base 16) ASACA CORPORATION
420 CORPORATE CIRCLE, Unit H
GOLDEN CO 80401
US

00-50-0E (hex) CHROMATIS NETWORKS, INC.
00500E (base 16) CHROMATIS NETWORKS, INC.
3 BETHESDA METRO CENTER
BETHESDA MD 20814
US

00-50-33 (hex) MAYAN NETWORKS
005033 (base 16) MAYAN NETWORKS
3350 SCOTT BLVD. - BLDG. #9
SANTA CLARA CA 95054
US

00-50-45 (hex) RIOWORKS SOLUTIONS, INC.

005045 (base 16) RIOWORKS SOLUTIONS, INC.
4F, NO.28, LANE 583
TAIWAN TAIWAN R.O.C.
TW

00-50-2B (hex) GENRAD LTD.
00502B (base 16) GENRAD LTD.
ORION BUSINESS PARK
UNITED KINGDOM SK3 OXG
GB

00-50-EC (hex) OLICOM A/S
0050EC (base 16) OLICOM A/S
NYBROVEJ 114

DK

00-50-C9 (hex) MASPRO DENKOH CORP.
0050C9 (base 16) MASPRO DENKOH CORP.
ASADA NISSHIN AICHI

JP

00-50-69 (hex) PixStream Incorporated
005069
(base 16) PixStream Incorporated
180 COLUMBIA ST. W.
Ontario N2L 3L3
CA

00-50-4F (hex) OLENCOM ELECTRONICS
00504F (base 16) OLENCOM ELECTRONICS
SOLTAM INDUSTRIAL PARK
YOKNEAM 20692
IL

00-50-C0 (hex) GATAN, INC.
0050C0 (base 16) GATAN, INC.
5933 CORONADO LANE
PLEASANTON CA 94588
US

00-50-51 (hex) IWATSU ELECTRIC CO., LTD.
005051 (base 16) IWATSU ELECTRIC CO., LTD.
7-41, KUGAYAMA 1-CHOME
SUGINAMI-KU, TOKYO 168-8501
JP

00-50-BB (hex) CMS TECHNOLOGIES
0050BB (base 16) CMS TECHNOLOGIES
13955 FARMINGTON RAOD
LIVONIA MI 48154
US

00-50-62 (hex) KOUWELL ELECTRONICS CORP. **
005062 (base 16) KOUWELL ELECTRONICS CORP. **
7F, NO.99, NAN-KANG ROAD

TW

00-50-D5 (hex) AD SYSTEMS CORP.
0050D5 (base 16) AD SYSTEMS CORP.
1-4-1, NAKACHO, MUSASHINO CITY
TOKYO 180-0006
JP

00-50-F3 (hex) GLOBAL NET INFORMATION CO., Ltd.
0050F3
(base 16) GLOBAL NET INFORMATION CO., Ltd.
NORTH TOWER- RM 1305
GUANG ZHOU 510095
CN

00-50-BE (hex) FAST MULTIMEDIA AG
0050BE (base 16) FAST MULTIMEDIA AG
RUEDESHEIMERSTR. 11-13
80686 MUNICH
DE

00-50-6F (hex) G-CONNECT
00506F (base 16) G-CONNECT
P.O. BOX 2200
HERZLIYA 46120
IL

00-50-07 (hex) SIEMENS TELECOMMUNICATION SYSTEMS LIMITED
005007 (base 16) SIEMENS TELECOMMUNICATION SYSTEMS LIMITED
NO. 90, SEC. 1, CHIEN KUO NORTH ROAD
TAIPEI
TW

00-50-22 (hex) ZONET TECHNOLOGY, INC.
005022 (base 16) ZONET TECHNOLOGY, INC.
830 ROOM, BLDG. 53, 195, SEC.4
HSINCHA
TW

00-50-40 (hex) Panasonic Electric Works Co., Ltd.
005040 (base 16) Panasonic Electric Works Co., Ltd.
Tsu-Factory, 1668, Fujikata
Tsu-shi Mie-ken 514-8555
JP

00-50-F8 (hex) ENTREGA TECHNOLOGIES, INC.
0050F8 (base 16) ENTREGA TECHNOLOGIES, INC.
25691 ATLANTIC OCEAN DRIVE
LAKE
FOREST CA 92630
US

00-50-42 (hex) SCI MANUFACTURING SINGAPORE PTE, LTD.
005042 (base 16) SCI MANUFACTURING SINGAPORE PTE, LTD.
3 DEPOT CLOSE
SINGAPORE 109840
SG

00-50-EB (hex) ALPHA-TOP CORPORATION
0050EB (base 16) ALPHA-TOP CORPORATION
19F., NO. 2, LANE 150
TAIPEI
TW

00-50-EF (hex) SPE Systemhaus GmbH
0050EF (base 16) SPE Systemhaus GmbH
WALDSTRASSE 7
63150 HEUSENSTAMM
DE

00-50-98 (hex) GLOBALOOP, LTD.
005098 (base 16) GLOBALOOP, LTD.
12 HASHARON ROAD
KFAR SABA 44269
IL

00-50-BC (hex) HAMMER STORAGE SOLUTIONS
0050BC (base 16) HAMMER STORAGE SOLUTIONS
8450 CENTRAL AVENUE
NEWARK CA 94560
US

00-90-71 (hex) Applied Innovation Inc.
009071 (base 16) Applied Innovation Inc.
5800 Innovation Drive
Dublin OH 43016-3271

US

00-90-18 (hex) ITO ELECTRIC INDUSTRY CO, LTD.
009018 (base 16) ITO ELECTRIC INDUSTRY CO, LTD.
4-26-12 MEIEKI NAKAMURA-KU
NAGOYA-CITY
AICHI 450-0002
JP

00-90-CD (hex) ENT-EMPRESA NACIONAL DE TELECOMMUNICACOES, S.A.
0090CD (base 16) ENT-EMPRESA NACIONAL DE TELECOMMUNICACOES, S.A.
R. ENG FREDERICO ULRICH - APARTADO 3081
Guardeiras - 4470 Moreira Maia
PT

00-90-D0 (hex) Thomson Telecom Belgium
0090D0 (base 16) Thomson Telecom Belgium
Prins Boudewijnlaan 47
B-2650 EDEGEM
BE

00-90-9B (hex) MARKEM-IMAJE
00909B (base 16) MARKEM-IMAJE
Frihamnen 16A
Gothenburg 417 55
SE

00-90-22 (hex) IVEX
009022 (base 16) IVEX
4295 INTERNATIONAL BLVD.
NORCROSS GA 30093
US

00-90-16 (hex) ZAC
009016 (base 16) ZAC
Stüvestraße 9
D-31141 Hildesheim
DE

00-90-FF (hex) TELLUS TECHNOLOGY INC.
0090FF (base 16) TELLUS TECHNOLOGY INC.
40990 ENCYCLOPEDIA CIR.
FREMONT CA 94538-2470
US

00-90-3E (hex) N.V. PHILIPS INDUSTRIAL ACTIVITIES
00903E (base 16) N.V. PHILIPS INDUSTRIAL

ACTIVITIES

B-3001 LEUVEN
BE

00-90-BA (hex) VALID NETWORKS, INC.
0090BA (base 16) VALID NETWORKS, INC.
6 CROMWELL #102
IRVINE CA 92618
US

00-50-7D (hex) IFP
00507D (base 16) IFP
LESSINGSTR. 4
D-78315 RADOLFZELL
DE

00-50-97 (hex) MMC-EMBEDDED COMPUTERTECHNIK GmbH
005097 (base 16) MMC-EMBEDDED COMPUTERTECHNIK GmbH
ULRICHSBERGERSTR. 17
D-94469 DEGGENDORF
DE

00-50-10 (hex) NovaNET Learning, Inc.
005010 (base 16) NovaNET Learning, Inc.
125 W. CHURCH STREET-STE. #300
CHAMPAIGN IL 61820
US

00-50-9A (hex) TAG ELECTRONIC SYSTEMS
00509A (base 16) TAG ELECTRONIC SYSTEMS
GENESIS BUSINESS PARK
WOKING, SURREY GU21 5RW
GB

00-90-D1 (hex) LEICHU ENTERPRISE CO., LTD.
0090D1 (base 16) LEICHU ENTERPRISE CO., LTD.
8F, NO. 203, PA-TEH ROAD, SEC.2

TW

00-90-46 (hex) DEXDYNE, LTD.
009046 (base 16) DEXDYNE, LTD.
15 MARKET PL.
GLOCESTERSHIRE
GL7 2PB
GB

00-90-DA (hex) DYNARC, INC.
0090DA (base 16) DYNARC, INC.
1887 LANDINGS DRIVE
MOUNTAIN VIEW CA 94043
US

00-90-E0 (hex) SYSTRAN CORP.
0090E0 (base 16) SYSTRAN CORP.
4126 LINDEN AVENUE
DAYTON OH 45432
US

00-90-94 (hex) OSPREY TECHNOLOGIES, INC.
009094 (base 16) OSPREY TECHNOLOGIES, INC.
600 AIRPORT BLVD. - STE. #900
MORRISVILLE NC 27560
US

00-90-B3 (hex) AGRANAT SYSTEMS
0090B3 (base 16) AGRANAT SYSTEMS
1345 MAIN STREET
WALTHAM MA 02154
US

00-90-5D (hex) NETCOM SICHERHEITSTECHNIK GMBH
00905D (base 16) NETCOM SICHERHEITSTECHNIK GMBH
BOPPSTRASSE 38

DE

00-90-FB (hex) PORTWELL, INC.
0090FB (base 16) PORTWELL, INC.
7F-4, NO. 160, SEC. 6
TAIPEI
TW

00-90-4F (hex) ABB POWER T&D COMPANY, INC.
00904F (base 16) ABB POWER T&D COMPANY, INC.
7036 SNOWDRIFT ROAD
ALLENTOWN PA 18106
US

00-90-60 (hex) SYSTEM CREATE
CORP.
009060 (base 16) SYSTEM CREATE CORP.
3-13-6 YOSHIKAWA BLD.
TOKYO
JP

00-90-13 (hex) SAMSAN CORP.
009013 (base 16) SAMSAN CORP.
ELECTRONICS & COMM DIVISION
Kangdong-Gu Seoul 134-050
KR

00-90-85 (hex) GOLDEN ENTERPRISES, INC.
009085 (base 16) GOLDEN ENTERPRISES, INC.
4450 WEST EAU GALLIE BLVD.
MELBOURNE FL 32934
US

00-90-DC (hex) TECO INFORMATION SYSTEMS
0090DC (base 16) TECO INFORMATION SYSTEMS
CO., LTD.
SAN JOSE CA 95134
US

00-90-E2 (hex) DISTRIBUTED PROCESSING TECHNOLOGY
0090E2 (base 16) DISTRIBUTED PROCESSING TECHNOLOGY
140 CANDACE DRIVE
ORLANDO FL 32751
US

00-10-A3 (hex) OMNITRONIX, INC.
0010A3 (base 16) OMNITRONIX, INC.
760 HARRISON STREET
SEATTLE WA 98109
US

00-10-AD (hex) SOFTRONICS USB, INC.
0010AD (base 16) SOFTRONICS USB, INC.
5085 LIST DRIVE
COLORADO SPRINGS CO 80919
US

00-10-A7 (hex) UNEX TECHNOLOGY CORPORATION
0010A7
(base 16) UNEX TECHNOLOGY CORPORATION
8F-5, #130, SZE WEI RD.,
HSINCHU
TW

00-10-D5 (hex) IMASDE CANARIAS, S.A.
0010D5 (base 16) IMASDE CANARIAS, S.A.
URB. EL CEBADAL
35008 LAS PALMAS G.C.

ES

00-10-55 (hex) FUJITSU MICROELECTRONICS, INC.
001055 (base 16) FUJITSU MICROELECTRONICS, INC.
3545 NORTH FIRST STREET
SAN JOSE CA 95134-1806
US

00-10-52 (hex) METTLER-TOLEDO (ALBSTADT) GMBH
001052 (base 16) METTLER-TOLEDO (ALBSTADT) GMBH
P.O. BOX 2 50
D-72423 ALBSTADT
DE

00-90-C7 (hex) ICOM INC.
0090C7 (base 16) ICOM INC.
6-9-16 KAMIHIGASHI
HIRANO-KU, OSAKA
JP

00-90-35 (hex) ALPHA TELECOM, INC.
009035 (base 16) ALPHA TELECOM, INC.
2F, NO.2, LI HSIN ROAD
HSIN-CHU
TW

00-90-F0 (hex) Harmonic Video Systems Ltd.
0090F0 (base 16) Harmonic Video Systems Ltd.
19 ALON HATAVOR STREET
CAESAREA Industrial Park 38900
IL

00-90-7A
(hex) Spectralink, Inc
00907A (base 16) Spectralink, Inc
2560 55th Street
BOULDER CO 80301
US

00-90-20 (hex) PHILIPS ANALYTICAL X-RAY B.V.
009020 (base 16) PHILIPS ANALYTICAL X-RAY B.V.
LELYWEG 1
7602 EA ALMELO
NL

00-90-0F (hex) KAWASAKI HEAVY INDUSTRIES, LTD
00900F (base 16) KAWASAKI HEAVY INDUSTRIES, LTD
ELEC. & CONTROL TECH CENTER

JP

00-90-EA (hex) ALPHA TECHNOLOGIES, INC.
0090EA (base 16) ALPHA TECHNOLOGIES, INC.
3767 ALPHA WAY
BELLINGHAM WA 98226
US

00-90-77 (hex) ADVANCED FIBRE COMMUNICATIONS
009077 (base 16) ADVANCED FIBRE COMMUNICATIONS
PO BOX #751239
PETALUMA CA 94975
US

00-90-99 (hex) ALLIED TELESIS, K.K.
009099 (base 16) ALLIED TELESIS, K.K.
NO. 2 TOC BUILDING, 7-21-11Nishi-Gotand
Shinagawa-Ku Tokyo 141
JP

00-90-A7 (hex) CLIENTEC CORPORATION
0090A7 (base 16) CLIENTEC CORPORATION
8175 S. VIRGINIA ST.
RENO NV 89511
US

00-90-5C
(hex) EDMI
00905C (base 16) EDMI
626 OLD GYMPIE ROAD
NARANGBA QLD 4504
AU

00-90-E3 (hex) AVEX ELECTRONICS INC.
0090E3 (base 16) AVEX ELECTRONICS INC.
4807 BRADFORD DRIVE
HUNTSVILLE AL 35805
US

00-90-A9 (hex) WESTERN DIGITAL
0090A9 (base 16) WESTERN DIGITAL
1599 NORTH BROADWAY
ROCHESTER MN 55906
US

00-90-3C (hex) ATLANTIC NETWORK SYSTEMS
00903C (base 16) ATLANTIC NETWORK SYSTEMS

IMMEUBLE Kennedy
33700 MERIGNAC
FR

00-90-55 (hex) PARKER HANNIFIN CORPORATION COMPUMOTOR DIVISION
009055 (base 16) PARKER HANNIFIN CORPORATION COMPUMOTOR DIVISION
5500 BUSINESS PARK DRIVE
ROHNERT PARK CA 94928
US

00-90-F3 (hex) ASPECT COMMUNICATIONS
0090F3 (base 16) ASPECT COMMUNICATIONS
1310 Ridder Park Drive
San Jose CA 95131-2313
US

00-90-53 (hex) DAEWOO ELECTRONICS CO., LTD.
009053 (base 16) DAEWOO ELECTRONICS CO., LTD.
DIT RESEARCH CENTER
CHUNG-GU
SEOUL 100-714
KR

00-10-5D (hex) Draeger Medical
00105D (base 16) Draeger Medical
Moislinger Allee 53-55
Luebeck D-23542
DE

00-10-2D (hex) HITACHI SOFTWARE ENGINEERING
00102D (base 16) HITACHI SOFTWARE ENGINEERING
5-79, ONOECHO, NAKA-KU
YOKOHAMA 231
JP

00-10-33 (hex) ACCESSLAN COMMUNICATIONS, INC.
001033 (base 16) ACCESSLAN COMMUNICATIONS, INC.
44 AIRPORT PARKWAY
SAN JOSE CA 95110
US

00-10-12 (hex) PROCESSOR SYSTEMS (I) PVT LTD
001012 (base 16) PROCESSOR SYSTEMS (I) PVT LTD
24 RICHMOND ROAD
BANGALORE 560 025
IN

00-10-15 (hex) OOmon Inc.

001015 (base 16) OOmon Inc.
PO BOX 8241
COBURG OR 97408
US

00-10-6B (hex) SONUS NETWORKS, INC.
00106B (base 16) SONUS NETWORKS, INC.
5 CARLISLE ROAD
WESTFORD MA 01886
US

00-10-C3 (hex) CSI-CONTROL SYSTEMS
0010C3 (base 16) CSI-CONTROL SYSTEMS
INTERNATIONAL
DALLAS TX 75229
US

00-10-78
(hex) NUERA COMMUNICATIONS, INC.
001078 (base 16) NUERA COMMUNICATIONS, INC.
10445 PACIFIC CENTER COURT
SAN DIEGO CA 92121
US

00-10-DD (hex) ENABLE SEMICONDUCTOR, INC.
0010DD (base 16) ENABLE SEMICONDUCTOR, INC.
1740 TECHNOLOGY DRIVE
SAN JOSE CA 95110
US

00-10-7A (hex) AmbiCom, Inc.
00107A (base 16) AmbiCom, Inc.
2450 SCOTT BLVD., #305
SANTA CLARA CA 95050
US

00-10-B9 (hex) MAXTOR CORP.
0010B9 (base 16) MAXTOR CORP.
2190 MILLER DRIVE
LONGMONT CO 80501-6744
US

00-10-91 (hex) NO WIRES NEEDED BV
001091 (base 16) NO WIRES NEEDED BV
P.O. BOX 343
3720 AH BILTHOVEN
NL

00-10-51 (hex) CMICRO CORPORATION
001051 (base 16) CMICRO CORPORATION
17-20-2 KAMINO-CHO
TAKAMATSU-SHI, KAGAWA 761
JP

00-10-37 (hex) CYQ've Technology Co., Ltd.
001037 (base 16) CYQ've Technology Co., Ltd.
COSMO BLDG. 10F, NO.1-7
SHINJUKU-KU, TOKYO 160
JP

00-10-1B
(hex) CORNET TECHNOLOGY, INC.
00101B (base 16) CORNET TECHNOLOGY, INC.
7F-4, NO. 46 CHUNG SHAN N.ROAD
SEC. 2, TAIPEI
TJ

00-10-DC (hex) MICRO-STAR INTERNATIONAL CO., LTD.
0010DC (base 16) MICRO-STAR INTERNATIONAL CO., LTD.
NO. 69, LI-DE ST., JUNG-HE CITY
Taipei Hsien
TW

00-10-0A (hex) WILLIAMS COMMUNICATIONS GROUP
00100A (base 16) WILLIAMS COMMUNICATIONS GROUP
ADVANCED TECHNOLOGIES
TULSA OK 74103
US

00-10-32 (hex) ALTA TECHNOLOGY
001032 (base 16) ALTA TECHNOLOGY
9500 SOUTH 500 WEST - STE #212
SANDY UT 84070
US

00-10-80 (hex) METAWAVE COMMUNICATIONS
001080 (base 16) METAWAVE COMMUNICATIONS
8700 148TH AVENUE N.E.
REDMOND WA 98052
US

00-10-F4 (hex) Vertical Communications
0010F4 (base 16) Vertical Communications
3979 Freedom Circle #400
Santa Clara CA 95054-1247
US

00-10-77 (hex) SAF DRIVE SYSTEMS, LTD.
001077 (base 16) SAF DRIVE
SYSTEMS, LTD.
88 ARDELT AVE.
KITCHENER, ONTARIO N2C 2C9
CA

00-10-B3 (hex) NOKIA MULTIMEDIA TERMINALS
0010B3 (base 16) NOKIA MULTIMEDIA TERMINALS
NOKIA HOME COMMUNICATIONS
SE-583 35 LINKOPING
SE

00-10-1E (hex) MATSUSHITA ELECTRONIC INSTRUMENTS CORP.
00101E (base 16) MATSUSHITA ELECTRONIC INSTRUMENTS CORP.
23-9 KIYOHARA INDUSTRIAL PARK
UTSUNOMIYA Tochigi 321-32
JP

00-10-4D (hex) SURTEC INDUSTRIES, INC.
00104D (base 16) SURTEC INDUSTRIES, INC.
NO.11, ALLEY 16, LANE 337
TAIPEI
TW

00-E0-6E (hex) FAR SYSTEMS S.p.A.
00E06E (base 16) FAR SYSTEMS S.p.A.
VIA F. ZENI 8
3868 ROVERETO (TN)
IT

00-E0-6D (hex) COMPUWARE CORPORATION
00E06D (base 16) COMPUWARE CORPORATION
One Campus Martius
Detroit MI 48226
US

00-E0-BB (hex) NBX CORPORATION
00E0BB (base 16) NBX CORPORATION
100 BRICKSTONE SQUARE
ANDOVER MA 01810
US

00-E0-8A (hex) GEC AVERY,
LTD.
00E08A (base 16) GEC AVERY, LTD.
FOUNDRY LANE

WEST MIDLANDS, B66 2LP England
GB

00-E0-7F (hex) LOGISTISTEM s.r.l.
00E07F (base 16) LOGISTISTEM s.r.l.
VIA PANCIATICHI 94/18
50127 FIRENZE
IT

00-E0-13 (hex) EASTERN ELECTRONIC CO., LTD.
00E013 (base 16) EASTERN ELECTRONIC CO., LTD.
NO. 4, SHIN-LONG ROAD,
TAO-YUAN
TW

00-E0-86 (hex) Emerson Network Power, Avocent Division
00E086 (base 16) Emerson Network Power, Avocent Division
4991 Corporate Drive
HUNTSVILLE AL 35805
US

00-E0-1B (hex) SPHERE COMMUNICATIONS, INC.
00E01B (base 16) SPHERE COMMUNICATIONS, INC.
2 ENERGY DRIVE
LAKE BLUFF IL 60044
US

00-E0-FD (hex) A-TREND TECHNOLOGY CO., LTD.
00E0FD (base 16) A-TREND TECHNOLOGY CO., LTD.
10F, NO. 75, HSIN TAI WU RD.,
TAIPEI HSIEN 221
TJ

00-E0-BD (hex) INTERFACE SYSTEMS, INC.
00E0BD (base 16) INTERFACE SYSTEMS, INC.
5855 INTERFACE DRIVE
ANN
ARBOR MI 48103-9515
US

00-E0-38 (hex) PROXIMA CORPORATION
00E038 (base 16) PROXIMA CORPORATION
9440 CARROLL PARK DRIVE
SAN DIEGO CA 92121-2298
US

00-E0-9C (hex) MII
00E09C (base 16) MII

LE parc du MOULIN
F95650 PUISEUX-POTOISE
FR

00-E0-E9 (hex) DATA LABS, INC.
00E0E9 (base 16) DATA LABS, INC.
444 NORTH FREDERICK AVE.
GAITHERSBURG MD 20877
US

00-E0-0C (hex) MOTOROLA
00E00C (base 16) MOTOROLA
5401 N. BEACH ST. S243
FT. WORTH TX 76137
US

00-E0-0A (hex) DIBA, INC.
00E00A (base 16) DIBA, INC.
3355 EDISON WAY
MENLO PARK CA 94025
US

00-E0-C4 (hex) HORNER ELECTRIC, INC.
00E0C4 (base 16) HORNER ELECTRIC, INC.
1521 E. WASHINGTON ST.
INDIANAPOLIS IN 46201
US

00-E0-C5 (hex) BCOM ELECTRONICS INC.
00E0C5 (base 16) BCOM ELECTRONICS INC.
8 FL, NO. 64, AN HO ROAD, SEC. 2
TAIPEI
TW

00-E0-EE (hex) MAREL HF
00E0EE (base 16) MAREL
HF
Austurhraun 9
Gardabaer 210
IS

00-E0-8E (hex) UTSTARCOM
00E08E (base 16) UTSTARCOM
33 WOOD AVE. SOUTH
ISELIN NJ 08830
US

00-E0-3F (hex) JATON CORPORATION

00E03F (base 16) JATON CORPORATION
556 SOUTH MILPITAS BLVD.
MILPITAS CA 95035
US

00-E0-D4 (hex) EXCELLENT COMPUTER
00E0D4 (base 16) EXCELLENT COMPUTER
551, M.K.N. ROAD
ALANDUR, CHENNAI 600016
IN

00-E0-E8 (hex) GRETACODER Data Systems AG
00E0E8 (base 16) GRETACODER Data Systems AG
ALTHARDSTRASSE 150
CH-8105 REGENSDORF
CH

00-E0-16 (hex) RAPID CITY COMMUNICATIONS
00E016 (base 16) RAPID CITY COMMUNICATIONS
555 CLYDE AVE.
MOUNTAIN VIEW CA 94043
US

00-E0-EA (hex) INNOVAT COMMUNICATIONS, INC.
00E0EA (base 16) INNOVAT COMMUNICATIONS, INC.
1257 N. PLANO ROAD
RICHARDSON TX 75081
US

00-E0-64 (hex) SAMSUNG ELECTRONICS
00E064 (base 16) SAMSUNG ELECTRONICS
99 W. TASMAN
DRIVE
SAN JOSE CA 95134
US

00-E0-69 (hex) JAYCOR
00E069 (base 16) JAYCOR
9775 TOWNE CENTRE DRIVE
SAN DIEGO CA 92121
US

00-E0-A4 (hex) ESAOTE S.p.A.
00E0A4 (base 16) ESAOTE S.p.A.
via di CACIOLLE, 15
50127 FLORENCE
IT

00-E0-DE (hex) DATAX NV
00E0DE (base 16) DATAX NV
RINGLAAN 51
B-2600 BERCHEM
BE

00-E0-05 (hex) TECHNICAL CORP.
00E005 (base 16) TECHNICAL CORP.
22-6 MINAMI SENGENCHO
KANAGAWA
JP

00-E0-C1 (hex) MEMOREX TELEX JAPAN, LTD.
00E0C1 (base 16) MEMOREX TELEX JAPAN, LTD.
YAESUGUCHI KAIKAN, 1-7-20
TOKYO 103
JP

00-E0-84 (hex) COMPULITE R&D
00E084 (base 16) COMPULITE R&D
3 HAROSHET STR. NEW IND. ZONE
RAMAT-HASHARON 47279
IL

00-E0-A5 (hex) ComCore Semiconductor, Inc.
00E0A5 (base 16) ComCore Semiconductor, Inc.
4505 LAS VIRGENES, Suite 202
CALABASAS CA 91302
US

00-E0-15 (hex) HEIWA CORPORATION
00E015
(base 16) HEIWA CORPORATION
2-3014-8, HIROSAWA-CHO
GUNMA PREF. 376
JP

00-E0-96 (hex) SHIMADZU CORPORATION
00E096 (base 16) SHIMADZU CORPORATION
1, NISHINOKYO-KUWABARACHO
NAKAGYO-KU, KYOTO 604
US

00-E0-17 (hex) EXXACT GmbH
00E017 (base 16) EXXACT GmbH
RHEINSTRASE 7
D-41836 HUCKELHOVEN
DE

00-E0-C9 (hex) AutomatedLogic Corporation
00E0C9 (base 16) AutomatedLogic Corporation
1150 ROBERTS BOULEVARD
KENNESAW GA 30144-3618
US

00-E0-A9 (hex) FUNAI ELECTRIC CO., LTD.
00E0A9 (base 16) FUNAI ELECTRIC CO., LTD.
7-1, NAKAGAITO 7-CHOME, DAITO
OSAKA 574
JP

00-60-7F (hex) AURORA TECHNOLOGIES, INC.
00607F (base 16) AURORA TECHNOLOGIES, INC.
176 SECOND AVENUE
WALTHAM MA 02154
US

00-E0-29 (hex) STANDARD MICROSYSTEMS CORP.
00E029 (base 16) STANDARD MICROSYSTEMS CORP.
6 HUGHES
IRVINE CA 92718
US

00-60-A5 (hex) PERFORMANCE TELECOM CORP.
0060A5
(base 16) PERFORMANCE TELECOM CORP.
10 CARLSON ROAD
ROCHESTER NY 14610-1021
US

00-60-A1 (hex) VPNet, Inc.
0060A1 (base 16) VPNet, Inc.
555 N. MATHILDA AVE.,-STE #110
SUNNYVALE CA 94086
US

00-60-27 (hex) Superior Modular Products
006027 (base 16) Superior Modular Products
General Technology Division
MELBOURNE FL 32940
US

00-60-BC (hex) KeunYoung Electronics & Communication Co., Ltd.
0060BC (base 16) KeunYoung Electronics & Communication Co., Ltd.
325-76, DAEHEUNG-DONG, MAPO-GU,
SEOUL

KR

00-60-61 (hex) WHISTLE COMMUNICATIONS CORP.
006061 (base 16) WHISTLE COMMUNICATIONS CORP.
110 MARSH DRIVE-STE #100
FOSTER CITY CA 94404
US

00-60-74 (hex) QSC LLC
006074 (base 16) QSC LLC
1675 MACARTHUR BLVD
COSTA MESA CA 92626
US

00-60-76 (hex) SCHLUMBERGER TECHNOLOGIES RETAIL PETROLEUM SYSTEMS
006076 (base 16) SCHLUMBERGER TECHNOLOGIES RETAIL PETROLEUM SYSTEMS
825-M
GREENBRIER CIRCLE
CHESAPEAKE VA 23320
US

00-60-EA (hex) StreamLogic
0060EA (base 16) StreamLogic
21329 NORDHOFF STREET
CHATSWORTH CA 91311
US

00-60-29 (hex) CARY PERIPHERALS INC.
006029 (base 16) CARY PERIPHERALS INC.
190 COLONNADE ROAD S, UNIT 9
NEPEAN, ONTARIO K2E 7J5
CA

00-60-FC (hex) CONSERVATION THROUGH INNOVATION LTD.
0060FC (base 16) CONSERVATION THROUGH INNOVATION LTD.
1040 WHIPPLE ST.- STE. #225
PRESCOTT AZ 86301
US

00-60-18 (hex) STELLAR ONE CORPORATION
006018 (base 16) STELLAR ONE CORPORATION
500 108TH AVE. NE--STE. #2200
BELLEVUE WA 98004
US

00-60-F9 (hex) DIAMOND LANE COMMUNICATIONS
0060F9 (base 16) DIAMOND LANE COMMUNICATIONS
1310 REDWOOD WAY - STE.

PETALUMA CA 94954
US

00-60-B6 (hex) LAND COMPUTER CO., LTD.
0060B6 (base 16) LAND COMPUTER CO., LTD.
7-4-17 NISHINAKAJIMA
YODOGAWAKU 532
JP

00-60-6C (hex) ARESCOM
00606C
(base 16) ARESCOM
2833 JUNCTION AVE. - STE #206
SAN JOSE CA 95134
US

00-60-1B (hex) MESA ELECTRONICS
00601B (base 16) MESA ELECTRONICS
1323 61ST STREET
EMERYVILLE CA 94608-2117
US

00-60-2E (hex) CYCLADES CORPORATION
00602E (base 16) CYCLADES CORPORATION
41934 CHRISTY STREET
FREMONT CA 94538
US

00-60-E3 (hex) ARBIN INSTRUMENTS
0060E3 (base 16) ARBIN INSTRUMENTS
3206 LONGMIRE DRIVE
COLLEGE STATION TX 77845
US

00-60-71 (hex) MIDAS LAB, INC.
006071 (base 16) MIDAS LAB, INC.
4 KATAMACHI,
TOKYO 160
JP

00-60-D4 (hex) ELDAT COMMUNICATION LTD.
0060D4 (base 16) ELDAT COMMUNICATION LTD.
10 HAKISHON STREET
BNEI-BRAK 51203
IL

00-60-A4 (hex) GEW Technologies (PTY)Ltd
0060A4 (base 16) GEW Technologies (PTY)Ltd

BOX 912-561
SILVERTON 0127
ZA

00-60-64 (hex) NETCOMM LIMITED
006064 (base 16) NETCOMM LIMITED
PO BOX 379
NORTH
RYDE, NSW, 2113
AU

00-60-C5 (hex) ANCOT CORP.
0060C5 (base 16) ANCOT CORP.
115 CONSTITUTION DR.
MENLO PARK CA 94025
US

00-60-A9 (hex) GESYTEC MBH
0060A9 (base 16) GESYTEC MBH
PASCALSTRASSE 6
D 52076 AACHEN
DE

00-60-F2 (hex) LASERGRAPHICS, INC.
0060F2 (base 16) LASERGRAPHICS, INC.
20 ADA
IRVINE CA 92718
US

00-60-C3 (hex) NETVISION CORPORATION
0060C3 (base 16) NETVISION CORPORATION
MS# 1A
RONKONKOMA NY 11779
US

00-A0-5A (hex) KOFAX IMAGE PRODUCTS
00A05A (base 16) KOFAX IMAGE PRODUCTS
3 JENNER STREET
IRVINE CA 92718-3807
US

00-A0-52 (hex) STANILITE ELECTRONICS PTY. LTD
00A052 (base 16) STANILITE ELECTRONICS PTY. LTD
424, LANE COVE ROAD
NORTH RYDE NSW 2113
AU

00-A0-5E (hex) MYRIAD LOGIC INC.

00A05E (base 16) MYRIAD LOGIC INC.
1109 SPRING STREET
SILVER SPRING MD 20910
US

00-A0-95 (hex) ACACIA NETWORKS, INC.
00A095
(base 16) ACACIA NETWORKS, INC.
831 WOBURN STREET
WILMINGTON MA 01887
US

00-A0-F2 (hex) INFOTEK COMMUNICATIONS, INC.
00A0F2 (base 16) INFOTEK COMMUNICATIONS, INC.
111 ANZA BLVD., #203
BURLINGAME CA 94010
US

00-A0-53 (hex) COMPACT DEVICES, INC.
00A053 (base 16) COMPACT DEVICES, INC.
16795 LARK AVENUE
LOS GATOS CA 95030
US

00-A0-69 (hex) Symmetricom, Inc.
00A069 (base 16) Symmetricom, Inc.
3750 Westwind Blvd.
Santa Rosa CA 95403
US

00-A0-7A (hex) ADVANCED PERIPHERALS TECHNOLOGIES, INC.
00A07A (base 16) ADVANCED PERIPHERALS TECHNOLOGIES, INC.

FUJISAWA-SHI, KANAGAWA-KEN 251
JP

00-A0-4E (hex) VOELKER TECHNOLOGIES, INC.
00A04E (base 16) VOELKER TECHNOLOGIES, INC.
22 NEW BOSTON COURT
DANVILLE CA 94526
US

00-60-82 (hex) NOVALINK TECHNOLOGIES, INC.
006082 (base 16) NOVALINK TECHNOLOGIES, INC.
48511 WARM SPRINGS BLVD. #208
FREMONT CA 94539
US

00-60-E7
(hex) RANDATA
0060E7 (base 16) RANDATA
PO BOX 209
HAWTHORN VIC 3122
AU

00-60-54 (hex) CONTROLWARE GMBH
006054 (base 16) CONTROLWARE GMBH
WALDSTRASSE 92
63128 DIETZENBACH
DE

00-60-C2 (hex) MPL AG
0060C2 (base 16) MPL AG
Taefernstrasse 20
CH-5405 Daettwil
CH

00-60-9B (hex) AstroNova, Inc
00609B (base 16) AstroNova, Inc
600 EAST GREENWICH AVE.
WEST WARWICK RI 02893
US

00-60-DB (hex) NTP ELEKTRONIK A/S
0060DB (base 16) NTP ELEKTRONIK A/S
KNAPHOLM 7
DK-2730 HERLEV
DK

00-60-52 (hex) PERIPHERALS ENTERPRISE CO., Ltd.
006052 (base 16) PERIPHERALS ENTERPRISE CO., Ltd.
3F, NO.10, ALLEY 6, LANE 45
TAIPEI
TW

00-A0-DF (hex) STS TECHNOLOGIES, INC.
00A0DF (base 16) STS TECHNOLOGIES, INC.
13765 ST. CHARLES ROCK RD.
BRIDGETON MO 63044
US

00-A0-94 (hex) COMSAT CORPORATION
00A094 (base 16) COMSAT CORPORATION
22300
COMSAT DRIVE
CLARKSBURG MD 20871-9475

US

00-A0-EF (hex) LUCIDATA LTD.
00A0EF (base 16) LUCIDATA LTD.
LUCIDATA HOUSE
GREAT SHELFORD CAMBBRIDGE CB2 5HA
GB

00-60-B2 (hex) PROCESS CONTROL CORP.
0060B2 (base 16) PROCESS CONTROL CORP.
6875 MIMMS DRIVE
ATLANTA GA 30340
US

00-60-81 (hex) TV/COM INTERNATIONAL
006081 (base 16) TV/COM INTERNATIONAL
16516 VIA ESPRILLO
SAN DIEGO CA 92127
US

00-A0-05 (hex) DANIEL INSTRUMENTS, LTD.
00A005 (base 16) DANIEL INSTRUMENTS, LTD.
TROLLSTRASSE 33
CH-8400 WINTERTHUR
CH

00-60-D9 (hex) TRANSYS NETWORKS INC.
0060D9 (base 16) TRANSYS NETWORKS INC.
3403 GRIFFITH
ST. LAURENT, QUEBEC H4T 1W5
CA

00-60-1F (hex) STALLION TECHNOLOGIES
00601F (base 16) STALLION TECHNOLOGIES
33 WOODSTOCK ROAD
TOOWONG Q-L-D- 4066
AU

00-60-0A (hex) SORD COMPUTER CORPORATION
00600A (base 16) SORD COMPUTER CORPORATION
20-7,
MASAGO 5-CHOME
CHIBA 261
JP

00-60-A8 (hex) TIDOMAT AB
0060A8 (base 16) TIDOMAT AB

S-12089 STOCKHOLM
SE

00-A0-66 (hex) ISA CO., LTD.
00A066 (base 16) ISA CO., LTD.
SHINJUKU LAMBDAX BLDG. 5F.,

JP

00-A0-AB (hex) NETCS INFORMATIONSTECHNIK GMBH
00A0AB (base 16) NETCS INFORMATIONSTECHNIK GMBH
KATHARINENSTRASSE 17-18

DE

00-A0-D8 (hex) SPECTRA - TEK
00A0D8 (base 16) SPECTRA - TEK
OUTGANG LANE
ENGLAND Y018 FJA
GB

00-A0-80 (hex) Tattile SRL
00A080 (base 16) Tattile SRL
4000 Executive Parkway
San Ramon CA 94583
US

00-A0-2B (hex) TRANSITIONS RESEARCH CORP.
00A02B (base 16) TRANSITIONS RESEARCH CORP.
SHELTER ROCK LANE
DANBURY CT 06810
US

00-A0-E8 (hex) REUTERS HOLDINGS PLC
00A0E8 (base 16) REUTERS HOLDINGS PLC
85, FLEET STREET
ENGLAND
GB

00-A0-08 (hex) NETCORP
00A008 (base 16) NETCORP
8 PLACE OF COMMERCE--STE
#200
CANADA J4W 3H2
CA

00-A0-FD (hex) SCITEX DIGITAL PRINTING, INC.
00A0FD (base 16) SCITEX DIGITAL PRINTING, INC.

3100 RESEARCH BLVD.
DAYTON OH 45420
US

00-A0-0F (hex) Broadband Technologies
00A00F (base 16) Broadband Technologies
P.O. Box 13737
Research Triangle Park, NC 27709-3737
US

00-A0-02 (hex) LEEDS & NORTHRUP AUSTRALIA PTY LTD
00A002 (base 16) LEEDS & NORTHRUP AUSTRALIA PTY LTD
PO BOX 4009
EIGHT MILE PLAINS QLD 4113
AU

00-A0-E4 (hex) OPTIQUEST
00A0E4 (base 16) OPTIQUEST
20490 BUSINESS PARKWAY
WALNUT CA 91789
US

00-A0-EE (hex) NASHOBA NETWORKS
00A0EE (base 16) NASHOBA NETWORKS
9-11 GOLDSMITH ST.
LITTLETON MA 01460
US

00-A0-DD (hex) AZONIX CORPORATION
00A0DD (base 16) AZONIX CORPORATION
900 MIDDLESEX TURNPIKE
BILLERICA MA 01821
US

00-A0-C3 (hex) UNICOMPUTER GMBH
00A0C3 (base 16) UNICOMPUTER GMBH
LIMBURGER
STRASSE 48

DE

00-A0-0A (hex) Airspan
00A00A (base 16) Airspan
Unitronics Building, Arava Street, Airport City
70100
IL

00-A0-67 (hex) NETWORK SERVICES GROUP

00A067 (base 16) NETWORK SERVICES GROUP
3421 COMMISSION COURT-STE #202
WOODBRIDGE VA 22192
US

00-A0-E0 (hex) TENNYSON TECHNOLOGIES PTY LTD
00A0E0 (base 16) TENNYSON TECHNOLOGIES PTY LTD
14 BUSINESS PARK DRIVE
VICTORIA - 3168
AU

00-A0-99 (hex) K-NET LTD.
00A099 (base 16) K-NET LTD.
SADDLERS HOUSE
YATELEY, SURREY GU17 7RX
GB

00-A0-EC (hex) TRANSMITTON LTD.
00A0EC (base 16) TRANSMITTON LTD.
SMISBY ROAD
LEICESTERSHIRE LE65 2UG
GB

00-A0-28 (hex) CONNER PERIPHERALS
00A028 (base 16) CONNER PERIPHERALS
3061 ZANKER ROAD
SAN JOSE CA 95134-2128
US

00-A0-9E (hex) ICTV
00A09E (base 16) ICTV
14600 WINCHESTER BLVD.
LOS GATOS CA 95030
US

00-A0-20 (hex) CITICORP/TTI
00A020
(base 16) CITICORP/TTI
3100 OCEAN PARK BLVD.
SANTA MONICA CA 90405
US

00-A0-FA (hex) Marconi Communication GmbH
00A0FA (base 16) Marconi Communication GmbH
Gerberstrasse 33

DE

00-A0-CB (hex) ARK TELECOMMUNICATIONS, INC.
00A0CB (base 16) ARK TELECOMMUNICATIONS, INC.
124 CARMEN LANE--SUITE
SANTA MARIA CA 93454
US

00-A0-50 (hex) CYPRESS SEMICONDUCTOR
00A050 (base 16) CYPRESS SEMICONDUCTOR
198 Champion Ct
SAN JOSE CA 95134
US

00-A0-CE (hex) Ecessa
00A0CE (base 16) Ecessa
2800 Campus Drive
Plymouth MN 55441
US

00-A0-09 (hex) WHITETREE NETWORK
00A009 (base 16) WHITETREE NETWORK
TECHNOLOGIES, INC.
PALO ALTO CA 94306
US

00-A0-0C (hex) KINGMAX TECHNOLOGY, INC.
00A00C (base 16) KINGMAX TECHNOLOGY, INC.
2FL., NO. 4, LANE 902, SEC.2

TW

00-A0-BB (hex) HILAN GMBH
00A0BB (base 16) HILAN GMBH
HAID-UND-NEU-STRASSE 7

DE

00-A0-91 (hex) APPLICOM INTERNATIONAL
00A091 (base 16) APPLICOM INTERNATIONAL
43, RUE MAZAGRAN

FR

00-A0-A5 (hex) TEKNOR MICROSYSTEME, INC.
00A0A5 (base 16) TEKNOR MICROSYSTEME, INC.
616 CURE BOIVIN
J7G 2A7
CA

00-20-86 (hex) MICROTECH ELECTRONICS LIMITED
002086 (base 16) MICROTECH ELECTRONICS LIMITED
LANCASTER ROAD
KINGDOM
GB

00-20-23 (hex) T.C. TECHNOLOGIES PTY. LTD
002023 (base 16) T.C. TECHNOLOGIES PTY. LTD
6/60 FAIRFORD RD.

AU

00-20-B2 (hex) GKD Gesellschaft Fur Kommunikation Und Datentechnik
0020B2 (base 16) GKD Gesellschaft Fur Kommunikation Und Datentechnik
SAARBURGER RING 10-12
68229 MANNHEIM
DE

00-20-52 (hex) RAGULA SYSTEMS
002052 (base 16) RAGULA SYSTEMS
4540 S. JUPITER DRIVE
SALT LAKE CITY UT 84124
US

00-20-FE (hex) TOPWARE INC. / GRAND COMPUTER
0020FE (base 16) TOPWARE INC. / GRAND COMPUTER
CORPORATION
TAIPEI
R.O.C.
TW

00-20-73 (hex) FUSION SYSTEMS CORPORATION
002073 (base 16) FUSION SYSTEMS CORPORATION
7600 STANDISH PLACE
ROCKVILLE MD 20855
US

00-20-B7 (hex) NAMAQUA COMPUTERWARE
0020B7 (base 16) NAMAQUA COMPUTERWARE
P.O. BOX 7155

ZA

00-20-E3 (hex) MCD KENCOM CORPORATION
0020E3 (base 16) MCD KENCOM CORPORATION
20950 CASTLE ROCK ROAD
LAGUNA BEACH CA 92651-1115

US

00-20-13 (hex) DIVERSIFIED TECHNOLOGY, INC.
002013 (base 16) DIVERSIFIED TECHNOLOGY, INC.
112 E. STATE STREET
RIDGELAND MS 39157
US

00-20-AB (hex) MICRO INDUSTRIES CORP.
0020AB (base 16) MICRO INDUSTRIES CORP.
8399 GREEN MEADOWS DR. N.
WESTERVILLE OH 43081
US

00-A0-25 (hex) REDCOM LABS INC.
00A025 (base 16) REDCOM LABS INC.
ONE REDCOM CENTER
VICTOR NY 14564-0995
US

00-A0-A2 (hex) B810 S.R.L.
00A0A2 (base 16) B810 S.R.L.
Via E. Lazzaretti 2/1
Reggio Emilia (RE)
42122
IT

00-A0-17 (hex) J B M CORPORATION
00A017 (base 16) J B M CORPORATION
10-1, ARAMOTOSHIN MACHI
577
JP

00-A0-34 (hex) AXEL
00A034 (base 16) AXEL
16, AVENUE DU QUEBEC

FR

00-A0-01 (hex) DRS Signal Solutions
00A001 (base 16) DRS Signal Solutions
700 Quince Orchard Road
Gaithersburg MD 20878-1794
US

00-A0-75 (hex) MICRON TECHNOLOGY, INC.
00A075 (base 16) MICRON TECHNOLOGY, INC.
8000 S. Federal Way

Boise ID 83707-0006
US

00-20-8D (hex) CMD TECHNOLOGY
00208D (base 16) CMD TECHNOLOGY
1 VANDERBILT
IRVINE CA 92718
US

00-20-DD (hex) Cybertec Pty Ltd
0020DD (base 16) Cybertec Pty Ltd
Unit 11, 41 Higginbotham Road
Gladesville NSW 2111
AU

00-20-E6 (hex) LIDKOPING MACHINE TOOLS AB
0020E6 (base 16) LIDKOPING MACHINE TOOLS AB
BOX 910

SE

00-A0-54 (hex) Private
00A054 (base 16) Private

00-A0-E7 (hex) CENTRAL DATA
CORPORATION
00A0E7 (base 16) CENTRAL DATA CORPORATION
1602 NEWTON DRIVE
CHAMPAIGN IL 61821
US

00-20-26 (hex) AMKLY SYSTEMS, INC.
002026 (base 16) AMKLY SYSTEMS, INC.
15801 ROCKFIELD BLVD., #P
IRVINE CA 92718
US

00-20-65 (hex) SUPERNET NETWORKING INC.
002065 (base 16) SUPERNET NETWORKING INC.
16 TOZERET HA'ARETZ ST.
TEL-AVIV 67891
IL

00-20-19 (hex) OHLER GMBH
002019 (base 16) OHLER GMBH
MAYBACHSTRASE 30
71332 WAIBLINGEN
DE

00-20-9E (hex) BROWN'S OPERATING SYSTEM SERVICES, LTD.
00209E (base 16) BROWN'S OPERATING SYSTEM SERVICES, LTD.
ST. AGNES HOUSE, CRESSWELL PK,
BLACKHEATH, London SE3 9RD
GB

00-20-35 (hex) IBM Corp
002035 (base 16) IBM Corp
3039 E Cornwallis Road
Research Triangle Park NC 27709-2195
US

00-20-7A (hex) WiSE Communications, Inc.
00207A (base 16) WiSE Communications, Inc.
130 KNOWLES DRIVE
LOS GATOS CA 95030
US

00-20-3E
(hex) LogiCan Technologies, Inc.
00203E (base 16) LogiCan Technologies, Inc.
150 KARL CLARK ROAD
EDMONTON, ALBERTA T6N 1E2
CA

00-20-58 (hex) ALLIED SIGNAL INC.
002058 (base 16) ALLIED SIGNAL INC.
ROUTE 46
TETERBORO NJ 07608
US

00-20-8E (hex) CHEVIN SOFTWARE ENG. LTD.
00208E (base 16) CHEVIN SOFTWARE ENG. LTD.
2 BOROUGHGATE, OTLEY,
LS21 3AL UNITED KINGDOM
GB

00-20-9B (hex) ERSAT ELECTRONIC GMBH
00209B (base 16) ERSAT ELECTRONIC GMBH
HAARBERGSTR. 61

DE

00-20-1C (hex) EXCEL, INC.
00201C (base 16) EXCEL, INC.
355 OLD PLYMOUTH ROAD
SAGAMORE BEACH MA 02562

US

00-20-7F (hex) KYOEI SANGYO CO., LTD.
00207F (base 16) KYOEI SANGYO CO., LTD.
DIR. & GEN'L MGR.IND. SYSTEMS
TOKYO
JP

00-20-5A (hex) COMPUTER IDENTICS
00205A (base 16) COMPUTER IDENTICS
5 SHAWMUT ROAD
CANTON MA 02021
US

00-20-00 (hex) LEXMARK INTERNATIONAL,
INC.
002000 (base 16) LEXMARK INTERNATIONAL, INC.
740 NEW CIRCLE ROAD
LEXINGTON KY 40550
US

00-20-1D (hex) KATANA PRODUCTS
00201D (base 16) KATANA PRODUCTS
THE STUDIO, QUARRY HILL BOX,
WILTSHIRE SN14 9HT
GB

00-20-46 (hex) CIPRICO, INC.
002046 (base 16) CIPRICO, INC.
2800 CAMPUS DRIVE--SUITE #60
PLYMOUTH MN 55441
US

00-20-5B (hex) Kentrox, LLC
00205B (base 16) Kentrox, LLC
20010 NW Tanasbourne Dr.
Hillsboro OR 97124
US

00-20-D3 (hex) OST (OUEST STANDARD TELEMATIQU
0020D3 (base 16) OST (OUEST STANDARD TELEMATIQU
RUE DU BAS VILLAGE

FR

00-20-F6 (hex) NET TEK AND KARLNET, INC.
0020F6 (base 16) NET TEK AND KARLNET, INC.
LITTLE STREAMS

UNITED KINGDOM
GB

00-20-B0 (hex) GATEWAY DEVICES, INC.
0020B0 (base 16) GATEWAY DEVICES, INC.
2440 STANWELL DRIVE
CONCORD CA 94520
US

00-20-2A (hex) N.V. DZINE
00202A (base 16) N.V. DZINE
KONING
LEOPOLD III LAAN 2

BE

00-20-83 (hex) PRESTICOM INCORPORATED
002083 (base 16) PRESTICOM INCORPORATED
3275, 1ST STREET, STE. #1
CANADA J3Y 8Y6
CA

00-20-C9 (hex) VICTRON BV
0020C9 (base 16) VICTRON BV
POB 31
THE
NL

00-20-77 (hex) KARDIOS SYSTEMS CORP.
002077 (base 16) KARDIOS SYSTEMS CORP.
26 N SUMMIT AVE.
GAITHERSBURG MD 20877
US

00-20-97 (hex) APPLIED SIGNAL TECHNOLOGY
002097 (base 16) APPLIED SIGNAL TECHNOLOGY
160 SOBRANTE WAY
SUNNYVALE CA 94086
US

00-C0-C9 (hex) ELSAG BAILEY PROCESS
00C0C9 (base 16) ELSAG BAILEY PROCESS
AUTOMATION
WICKLIFFE OH 44092
US

00-C0-48 (hex) BAY TECHNICAL ASSOCIATES
00C048 (base 16) BAY TECHNICAL ASSOCIATES

200 N. SECOND STREET
BAY ST. LOUIS MS 39520
US

00-C0-0E (hex) PSITECH, INC.
00C00E (base 16) PSITECH, INC.
18368 BANDILIER CIRCLE
FOUNTAIN VALLEY CA 92708
US

00-C0-31 (hex) DESIGN
RESEARCH SYSTEMS, INC.
00C031 (base 16) DESIGN RESEARCH SYSTEMS, INC.
925 E. EXECUTIVE PARK DR.
SALT LAKE CITY UT 84117
US

00-07-01 (hex) RACAL-DATACOM
000701 (base 16) RACAL-DATACOM
LAN INTERNETWORKING DIVISION
BOXBOROUGH MA 01719
US

00-C0-9C (hex) HIOKI E.E. CORPORATION
00C09C (base 16) HIOKI E.E. CORPORATION
81 Koizumi, Ueda, Nagano
Tokyo 386-1192
JP

00-20-08 (hex) CABLE & COMPUTER TECHNOLOGY
002008 (base 16) CABLE & COMPUTER TECHNOLOGY
1555 SO. SINCLAIR STREET
ANAHEIM CA 92806
US

00-C0-0B (hex) NORCONTROL A.S.
00C00B (base 16) NORCONTROL A.S.
P.O. BOX 1024

NO

00-C0-FD (hex) PROSUM
00C0FD (base 16) PROSUM
12 RUE SADI-CARNOT

FR

00-C0-76 (hex) I-DATA INTERNATIONAL A-S

00C076 (base 16) I-DATA INTERNATIONAL A-S
35-43 VADSTRUPVEJ

DK

00-C0-46 (hex) Blue Chip Technology Ltd
00C046 (base 16) Blue Chip Technology
Ltd
Chowley Oak Lane
Chester Cheshire CH3 9EX
GB

00-C0-14 (hex) TELEMATICS CALABASAS INT'L,INC
00C014 (base 16) TELEMATICS CALABASAS INT'L,INC
26630 AGOURA ROAD
CALABASAS CA 91302-1988
US

00-AA-3C (hex) OLIVETTI TELECOM SPA (OLTECO)
00AA3C (base 16) OLIVETTI TELECOM SPA (OLTECO)
10062 MILLER AVE.-STE.#204
CUPERTINO CA 95014
US

00-C0-11 (hex) INTERACTIVE COMPUTING DEVICES
00C011 (base 16) INTERACTIVE COMPUTING DEVICES
1735 TECHNOLOGY DRIVE-STE #720
SAN JOSE CA 95110
US

00-C0-3E (hex) FA. GEBR. HELLER GMBH
00C03E (base 16) FA. GEBR. HELLER GMBH
P.O. BOX 1428, DEP. EE7

DE

00-C0-60 (hex) ID SCANDINAVIA AS
00C060 (base 16) ID SCANDINAVIA AS
P.O. BOX 4227

NO

00-20-C6 (hex) NECTEC
0020C6 (base 16) NECTEC
RAMA VI ROAD

TH

00-C0-9E (hex) CACHE COMPUTERS, INC.
00C09E (base 16) CACHE COMPUTERS, INC.
46600 LANDING PARKWAY
FREMONT
CA 94538
US

00-C0-AC (hex) GAMBIT COMPUTER COMMUNICATIONS
00C0AC (base 16) GAMBIT COMPUTER COMMUNICATIONS
SOLTAM INDUSTRIAL PARK

IL

00-C0-34 (hex) TRANSACTION NETWORK
00C034 (base 16) TRANSACTION NETWORK
SERVICES, INC.
LANSING MI 48910-8356
US

00-C0-93 (hex) ALTA RESEARCH CORP.
00C093 (base 16) ALTA RESEARCH CORP.
614 SOUTH FEDERAL HIGHWAY
DEERFIELD BEACH FL 33441
US

00-C0-2C (hex) CENTRUM COMMUNICATIONS, INC.
00C02C (base 16) CENTRUM COMMUNICATIONS, INC.
2880 ZANKER ROAD-STE #108
SAN JOSE CA 95134
US

00-40-E7 (hex) ARNOS INSTRUMENTS & COMPUTER
0040E7 (base 16) ARNOS INSTRUMENTS & COMPUTER
SYSTEMS (GROUP) CO., LTD.
TSUEN WAN N.T.
HK

00-40-87 (hex) UBITREX CORPORATION
004087 (base 16) UBITREX CORPORATION
19TH FLOOR, 155 CARLTON STREET
CANADA R3C 3H8
CA

00-40-07 (hex) TELMAT INFORMATIQUE
004007 (base 16) TELMAT INFORMATIQUE
6
RUE DE L'INDUSTRIE

FR

00-40-7B (hex) SCIENTIFIC ATLANTA
00407B (base 16) SCIENTIFIC ATLANTA
Information Technology
Norcross GA 30091-6850
US

00-40-2C (hex) ISIS DISTRIBUTED SYSTEMS, INC.
00402C (base 16) ISIS DISTRIBUTED SYSTEMS, INC.
111 SOUTH CAYUGA STREET
ITHACA NY 14850
US

00-40-CC (hex) SILCOM MANUF'G TECHNOLOGY INC.
0040CC (base 16) SILCOM MANUF'G TECHNOLOGY INC.
5620 TIMBERLEA BOULEVARD
CANADA L4W 4M6
CA

00-C0-54 (hex) NETWORK PERIPHERALS, LTD.
00C054 (base 16) NETWORK PERIPHERALS, LTD.
4TH FLOOR, 17 BOWATER RD.
ENGLAND
GB

00-C0-22 (hex) LASERMASTER TECHNOLOGIES, INC.
00C022 (base 16) LASERMASTER TECHNOLOGIES, INC.
7156 SHADY OAK ROAD
EDEN PRAIRIE MN 55344
US

00-C0-25 (hex) DATAPRODUCTS CORPORATION
00C025 (base 16) DATAPRODUCTS CORPORATION
6219 DESOTO AVENUE
WOODLAND HILLS CA 91365-0746
US

00-C0-DF (hex) KYE Systems
Corp.
00C0DF (base 16) KYE Systems Corp.
No. 492 Sec 5, Chung Hsin Road
Taipei Hsien 241
TW

00-C0-F5 (hex) METACOMP, INC.
00C0F5 (base 16) METACOMP, INC.
10989 VIA FRONTERA

SAN DIEGO CA 92127
US

00-C0-91 (hex) JABIL CIRCUIT, INC.
00C091 (base 16) JABIL CIRCUIT, INC.
32275 MALLY ROAD
MADISON HEIGHTS MI 48071
US

00-C0-49 (hex) U.S. ROBOTICS, INC.
00C049 (base 16) U.S. ROBOTICS, INC.
8100 NORTH MCCORMICK BLVD.
SKOKIE IL 60076-2999
US

00-C0-9D (hex) DISTRIBUTED SYSTEMS INT'L, INC
00C09D (base 16) DISTRIBUTED SYSTEMS INT'L, INC
531 WEST ROOSEVLET RD, STE #2
WHEATON IL 60187
US

00-C0-E9 (hex) OAK SOLUTIONS, LTD.
00C0E9 (base 16) OAK SOLUTIONS, LTD.
BROADWAY HOUSE
ENGLAND
GB

00-C0-C5 (hex) SID INFORMATICA
00C0C5 (base 16) SID INFORMATICA
RUA DR. GERALDO CAMPOS MOREIRA

BR

00-C0-51 (hex) ADVANCED INTEGRATION RESEARCH
00C051
(base 16) ADVANCED INTEGRATION RESEARCH
2188 DEL FRANCO STREET
SAN JOSE CA 95131
US

00-C0-85 (hex) ELECTRONICS FOR IMAGING, INC.
00C085 (base 16) ELECTRONICS FOR IMAGING, INC.
2855 CAMPUS DRIVE
SAN MATEO CA 94403
US

00-C0-66 (hex) DOCUPOINT, INC.
00C066 (base 16) DOCUPOINT, INC.

2701 BAYVIEW DRIVE
FREMONT CA 94538
US

00-C0-2D (hex) FUJI PHOTO FILM CO., LTD.
00C02D (base 16) FUJI PHOTO FILM CO., LTD.
798 MIYANODAI KAISEI-MACHI

JP

00-C0-BD (hex) INEX TECHNOLOGIES, INC.
00C0BD (base 16) INEX TECHNOLOGIES, INC.
3350 SCOTT BLVD.
SANTA CLARA CA 95054
US

00-C0-88 (hex) EKF ELEKTRONIK GMBH
00C088 (base 16) EKF ELEKTRONIK GMBH
PHILIPP-REIS-STR. 4

DE

00-C0-97 (hex) ARCHIPEL SA
00C097 (base 16) ARCHIPEL SA
1 RUE DU BULLOZ

FR

00-C0-04 (hex) JAPAN BUSINESS COMPUTER CO.LTD
00C004 (base 16) JAPAN BUSINESS COMPUTER CO.LTD
1368 FUTOO-CHO,
KOHOKU-KU
222
JP

00-C0-AA (hex) SILICON VALLEY COMPUTER
00C0AA (base 16) SILICON VALLEY COMPUTER
441 N. WHISMAN RD., BLDG.#13
MT. VIEW CA 94043
US

00-C0-B2 (hex) NORAND CORPORATION
00C0B2 (base 16) NORAND CORPORATION
550 2ND STREET SE
CEDAR RAPIDS IA 52401
US

00-C0-FB (hex) ADVANCED TECHNOLOGY LABS

00C0FB (base 16) ADVANCED TECHNOLOGY LABS
22100 BOTHELL HIGHWAY S.E.
BOTHELL WA 98041-3003
US

00-40-CF (hex) STRAWBERRY TREE, INC.
0040CF (base 16) STRAWBERRY TREE, INC.
160 SOUTH WOLFE ROAD
SUNNYVALE CA 94086
US

00-40-77 (hex) MAXTON TECHNOLOGY CORPORATION
004077 (base 16) MAXTON TECHNOLOGY CORPORATION
4FK, 249, SEC. 3,
TAIWAN
TW

00-C0-2B (hex) GERLOFF GESELLSCHAFT FUR
00C02B (base 16) GERLOFF GESELLSCHAFT FUR
ELEKRONISCHE SYSTEMENTWICKLUNG

DE

00-40-5B (hex) FUNASSET LIMITED
00405B (base 16) FUNASSET LIMITED
ORCHARDS,
14 TOWNSEND
UNITED KINGDOM
GB

00-40-12 (hex) WINDATA, INC.
004012 (base 16) WINDATA, INC.
10 BEARFOOT ROAD
NORTHBORO MA 01532
US

00-40-D5 (hex) Sartorius Mechatronics T&H GmbH
0040D5 (base 16) Sartorius Mechatronics T&H GmbH
WEENDER LANDSTR: 94 - 108

DE

00-40-BF (hex) CHANNEL SYSTEMS INTERN'L INC.
0040BF (base 16) CHANNEL SYSTEMS INTERN'L INC.
93 SO. LA PATERA LANE
SANTA BARBARA CA 93117
US

00-40-1E (hex) ICC
00401E (base 16) ICC
8230 MONTGOMERY ROAD
CINCINNATI OH 45236
US

00-40-9A (hex) NETWORK EXPRESS, INC.
00409A (base 16) NETWORK EXPRESS, INC.
2200 GREEN ROAD - STE
ANN ARBOR MI 48170
US

00-40-94 (hex) SHOGRAPHICS, INC.
004094 (base 16) SHOGRAPHICS, INC.
1890 N. SHORELINE BLVD.
MOUNTAIN VIEW CA 94043
US

00-40-E2 (hex) MESA RIDGE TECHNOLOGIES, INC.
0040E2 (base 16) MESA RIDGE TECHNOLOGIES, INC.
6725 MESA RIDGE ROAD-STE#100
SAN
DIEGO CA 92121
US

00-40-C4 (hex) KINKEI SYSTEM CORPORATION
0040C4 (base 16) KINKEI SYSTEM CORPORATION
1-22-17, KAMIKITA, HIRANOKU

JP

00-40-22 (hex) KLEVER COMPUTERS, INC.
004022 (base 16) KLEVER COMPUTERS, INC.
1028 W. MAUDE AVENUE
SUNNYVALE CA 94086
US

00-40-74 (hex) CABLE AND WIRELESS
004074 (base 16) CABLE AND WIRELESS
COMMUNICATIONS, INC.
VIENNA VA 22182-3964
US

00-40-B8 (hex) IDEA ASSOCIATES
0040B8 (base 16) IDEA ASSOCIATES
29 DUNHAM ROAD
BILLERICA MA 01821
US

00-40-E8 (hex) CHARLES RIVER DATA SYSTEMS,INC
0040E8 (base 16) CHARLES RIVER DATA SYSTEMS,INC
983 CONCORD STREET
FRAMINGHAM MA 01701
US

00-40-C0 (hex) VISTA CONTROLS CORPORATION
0040C0 (base 16) VISTA CONTROLS CORPORATION
27825 FREMONT COURT
VALENCIA CA 91355
US

00-C0-10 (hex) HIRAKAWA HEWTECH CORP.
00C010 (base 16) HIRAKAWA HEWTECH CORP.
7F, BLDG.B, OMORI
BELLPORT

JP

00-C0-37 (hex) DYNATEM
00C037 (base 16) DYNATEM
15795 ROCKFIELD BLVD.
IRVINE CA 92718
US

00-40-83 (hex) TDA INDUSTRIA DE PRODUTOS
004083 (base 16) TDA INDUSTRIA DE PRODUTOS
ELETRONICOS S.A.

BR

00-40-5D (hex) STAR-TEK, INC.
00405D (base 16) STAR-TEK, INC.
71 LYMAN STREET
NORTHBORO MA 01532
US

00-40-08 (hex) A PLUS INFO CORPORATION
004008 (base 16) A PLUS INFO CORPORATION
5F, NO.2, LANE 235
TAIWAN TAIWAN R.O.C.
TW

00-40-B5 (hex) VIDEO TECHNOLOGY COMPUTERS LTD
0040B5 (base 16) VIDEO TECHNOLOGY COMPUTERS LTD
33/F., BLOCK #1,
N.T. HONG KONG

HK

00-40-73 (hex) BASS ASSOCIATES
004073 (base 16) BASS ASSOCIATES
435 TASSO STREET, STE. #325
PALO ALTO CA 94301
US

00-40-7D (hex) EXTENSION TECHNOLOGY CORP.
00407D (base 16) EXTENSION TECHNOLOGY CORP.
30 HOLLIS STREET
FRAMINGHAM MA 01701
US

00-40-4D (hex) TELECOMMUNICATIONS
TECHNIQUES
00404D (base 16) TELECOMMUNICATIONS TECHNIQUES
M/S
GERMANTOWN MD 20876
US

00-40-0D (hex) LANNET DATA COMMUNICATIONS,LTD
00400D (base 16) LANNET DATA COMMUNICATIONS,LTD
ATIDIM TECHNOLOG'L PARK, BG.#3

IL

00-80-D7 (hex) Fantum Engineering
0080D7 (base 16) Fantum Engineering

Rockwall TX 75087
US

00-80-7A (hex) AITECH SYSTEMS LTD.
00807A (base 16) AITECH SYSTEMS LTD.
3080 OLCOTT STREET
SANTA CLARA CA 95054
US

00-80-DC (hex) PICKER INTERNATIONAL
0080DC (base 16) PICKER INTERNATIONAL
595 MINER ROAD
CLEVELAND OH 44143
US

00-C0-A0 (hex) ADVANCE MICRO RESEARCH, INC.
00C0A0 (base 16) ADVANCE MICRO RESEARCH, INC.
2045 CORPORATE COURT

SAN JOSE CA 95131
US

00-40-19 (hex) AEON SYSTEMS, INC.
004019 (base 16) AEON SYSTEMS, INC.
8401 WASHINGTON PLACE NE
ALBUQUERQUE NM 87113
US

00-40-BE (hex) BOEING DEFENSE & SPACE
0040BE
(base 16) BOEING DEFENSE & SPACE
P.O. BOX 3999
SEATTLE WA 98124-2499
US

00-40-6E (hex) COROLLARY, INC.
00406E (base 16) COROLLARY, INC.
2802 KELVIN
IRVINE CA 92714
US

00-40-76 (hex) Sun Conversion Technologies
004076 (base 16) Sun Conversion Technologies
100 Commerce Boulevard
Quakertown PA 78951-2237
US

00-40-28 (hex) NETCOMM LIMITED
004028 (base 16) NETCOMM LIMITED
3 OLYMPIC BUSINESS CENTRE
UNITED KINGDOM
GB

00-40-CB (hex) LANWAN TECHNOLOGIES
0040CB (base 16) LANWAN TECHNOLOGIES
1566 LA PRADERA DRIVE
CAMPBELL CA 95008
US

00-40-B2 (hex) SYSTEMFORSCHUNG
0040B2 (base 16) SYSTEMFORSCHUNG
KONIGSTRASSE 33A

DE

00-40-E6 (hex) C.A.E.N.
0040E6 (base 16) C.A.E.N.

2, CHEMIN LATERAL

FR

00-40-10 (hex) SONIC SYSTEMS, INC.
004010 (base 16) SONIC SYSTEMS, INC.
575 PASTORIA NORTH AVENUE
SUNNYVALE CA 940867
US

00-40-CA
(hex) FIRST INTERNAT'L COMPUTER, INC
0040CA (base 16) FIRST INTERNAT'L COMPUTER, INC
FIC Building
Neihu Taipei 114 Taipei 114
TW

00-40-8B (hex) RAYLAN CORPORATION
00408B (base 16) RAYLAN CORPORATION
120 INDEPENDENCE DRIVE
MENLO PARK CA 94025
US

00-40-EF (hex) HYPERCOM, INC.
0040EF (base 16) HYPERCOM, INC.
2851 WEST KATHLEEN ROAD
PHOENIX AZ 85023
US

00-40-93 (hex) PAXDATA NETWORKS LTD.
004093 (base 16) PAXDATA NETWORKS LTD.
COMMUNICATIONS HOUSE,
ENGLAND
GB

00-40-85 (hex) SAAB INSTRUMENTS AB
004085 (base 16) SAAB INSTRUMENTS AB
P.O. BOX 1017

SE

00-40-23 (hex) LOGIC CORPORATION
004023 (base 16) LOGIC CORPORATION
3-14-10 MEIJI-SEIMEI BUILDING

JP

00-40-F0 (hex) MicroBrain,Inc.

0040F0 (base 16) MicroBrain,Inc.
Yuzan Bldg. 4F,
Aichi-gun AICHI 480-1117
JP

00-40-89 (hex) MEIDENSHA CORPORATION
004089 (base 16) MEIDENSHA
CORPORATION
FACTORY NO.4, 515 KAMINAKAMIZO

JP

00-40-55 (hex) METRONIX GMBH
004055 (base 16) METRONIX GMBH
NEUE KNOCHENHAUERSTRAßE 5
WEST
DE

00-40-27 (hex) SMC MASSACHUSETTS, INC.
004027 (base 16) SMC MASSACHUSETTS, INC.
25 WALKERS BROOK DRIVE
READING MA 01867
US

00-40-45 (hex) TWINHEAD CORPORATION
004045 (base 16) TWINHEAD CORPORATION
1537 CENTRE POINTE DRIVE
MILPITAS CA 95035
US

00-40-A4 (hex) ROSE ELECTRONICS
0040A4 (base 16) ROSE ELECTRONICS
P.O. BOX 742571
HOUSTON TX 77274-2571
US

00-80-80 (hex) DATAMEDIA CORPORATION
008080 (base 16) DATAMEDIA CORPORATION
7401 CENTRAL HIGHWAY
PENNSAUKEN NJ 08109
US

00-80-82 (hex) PEP MODULAR COMPUTERS GMBH
008082 (base 16) PEP MODULAR COMPUTERS GMBH
APFELSTRANGER STR. 16
WEST
DE

00-80-71 (hex) SAI TECHNOLOGY
008071 (base 16) SAI TECHNOLOGY
4224 CAMPUS POINT COURT
SAN
DIEGO CA 92121-1513
US

00-80-98 (hex) TDK CORPORATION
008098 (base 16) TDK CORPORATION
CORP. R&D DEPT. TECH. HDQTERS.
CHIBA-KEN 272,
JP

00-80-3F (hex) TATUNG COMPANY
00803F (base 16) TATUNG COMPANY
22 CHUNGSHANG N. RD. 3RD SEC.
TAIPEI TAIWAN R.O.C.
TW

00-80-E6 (hex) PEER NETWORKS, INC.
0080E6 (base 16) PEER NETWORKS, INC.
3350 SCOTT BLVD. BLDG. 14
SANTA CLARA CA 95054
US

00-80-E0 (hex) XTP SYSTEMS, INC.
0080E0 (base 16) XTP SYSTEMS, INC.
1900 STATE STREET , STE
SANTA BARBARA CA 93101
US

00-80-2B (hex) INTEGRATED MARKETING CO
00802B (base 16) INTEGRATED MARKETING CO
1360 BORDEAUX DRIVE
SUNNYVALE CA 94089
US

00-40-15 (hex) ASCOM INFRASYS AG
004015 (base 16) ASCOM INFRASYS AG
DPT. EASO 3726

CH

00-80-56 (hex) SPHINX Electronics GmbH & Co KG
008056 (base 16) SPHINX Electronics GmbH & Co KG
Tullastr. 3

DE

00-80-31 (hex) BASYS,
CORP.
008031 (base 16) BASYS, CORP.
501 MACARA AVENUE
SUNNYVALE CA 94086
US

00-80-3A (hex) VARITYPER, INC.
00803A (base 16) VARITYPER, INC.
900 MIDDLESEX TURNPIKE
BILLERICA MA 01821
US

00-80-88 (hex) VICTOR COMPANY OF JAPAN, LTD.
008088 (base 16) VICTOR COMPANY OF JAPAN, LTD.
58-7 SHINMEI-CHO, YOKOSUKA

JP

00-80-01 (hex) PERIPHONICS CORPORATION
008001 (base 16) PERIPHONICS CORPORATION
4000 VETERANS MEMORIAL HIGHWAY
BOHEMIA NEW YORK 11716
US

00-80-97 (hex) CENTRALP AUTOMATISMES
008097 (base 16) CENTRALP AUTOMATISMES
21, RUE MARCEL PAGNOL 69694

FR

00-80-41 (hex) VEB KOMBINAT ROBOTRON
008041 (base 16) VEB KOMBINAT ROBOTRON
GRUNAER STRAßE 2, DRESDEN 8010
GDR EAST
DE

00-80-1C (hex) NEWPORT SYSTEMS SOLUTIONS
00801C (base 16) NEWPORT SYSTEMS SOLUTIONS
4019 WESTERLY AVENUE
NEWPORT BEACH CA 92660
US

00-80-95 (hex) BASIC
MERTON HANDELSGES.M.B.H.
008095 (base 16) BASIC MERTON HANDELSGES.M.B.H.
DURCHLASS-STRASSE 42

AT

00-80-AE (hex) HUGHES NETWORK SYSTEMS
0080AE (base 16) HUGHES NETWORK SYSTEMS
11717 EXPLORATION LANE
GERMANTOWN MD 20876
US

00-80-DB (hex) GRAPHON CORPORATION
0080DB (base 16) GRAPHON CORPORATION
1506 DELL AVE - #
CAMPBELL CA 95008-6911
VE

00-80-D8 (hex) NETWORK PERIPHERALS INC.
0080D8 (base 16) NETWORK PERIPHERALS INC.
2890 ZONKER ROAD SUITE 209
SAN JOSE CA 95134
US

00-80-9E (hex) DATUS GMBH
00809E (base 16) DATUS GMBH
INDUSTRIESTR. 2
WEST
DE

00-80-13 (hex) THOMAS-CONRAD CORPORATION
008013 (base 16) THOMAS-CONRAD CORPORATION
1908-R KRAMER LANE
AUSTIN TX 78758
US

00-80-6E (hex) NIPPON STEEL CORPORATION
00806E (base 16) NIPPON STEEL CORPORATION
31-1 SHINKAWA 2-CHOUME

JP

00-80-10 (hex) COMMODORE INTERNATIONAL
008010 (base
16) COMMODORE INTERNATIONAL
1200 WILSON DRIVE
WEST CHESTER PA 19380
US

00-80-D5 (hex) CADRE TECHNOLOGIES
0080D5 (base 16) CADRE TECHNOLOGIES

19545 NW VON NEUMANN DRIVE
BEAVERTON OR 97006
VU

00-80-1B (hex) KODIAK TECHNOLOGY
00801B (base 16) KODIAK TECHNOLOGY
2340 HARRIS WAY
SAN JOSE CA 95131
US

00-80-D3 (hex) SHIVA CORP.
0080D3 (base 16) SHIVA CORP.
205 BURLINGTON ROAD
BEDFORD MA 01730
US

00-80-B3 (hex) AVAL DATA CORPORATION
0080B3 (base 16) AVAL DATA CORPORATION
MACHIDA ENGINEERING CENTER

JP

00-80-45 (hex) MATSUSHITA ELECTRIC IND. CO
008045 (base 16) MATSUSHITA ELECTRIC IND. CO
COMPUTER DIVISION
OSAKA 571
JP

00-80-20 (hex) NETWORK PRODUCTS
008020 (base 16) NETWORK PRODUCTS
DIVISION OF ANDREW CORPORATION
TORRANCE CA 90503
US

00-80-70 (hex) COMPUTADORAS MICRON
008070 (base 16) COMPUTADORAS MICRON
GUERRERO 2001 - 19

MX

00-80-08 (hex) DYNATECH COMPUTER SYSTEMS
008008 (base 16) DYNATECH COMPUTER SYSTEMS
280 BERNARDO AVENUE
MOUNTAIN VIEW CA 94039-7400
US

00-00-E4 (hex) IN2 GROUPE INTERTECHNIQUE

0000E4 (base 16) IN2 GROUPE INTERTECHNIQUE
IN2 - B.P.63

FR

00-80-39 (hex) ALCATEL STC AUSTRALIA
008039 (base 16) ALCATEL STC AUSTRALIA
252-280 BOTANY ROAD

AU

00-80-23 (hex) INTEGRATED BUSINESS NETWORKS
008023 (base 16) INTEGRATED BUSINESS NETWORKS
1BN THE SYSTEMS CENTRE
BUCKS HP19 3XN - ENGLAND
GB

00-80-6B (hex) SCHMID TELECOMMUNICATION
00806B (base 16) SCHMID TELECOMMUNICATION
BINZSTRASSE 35,

CH

00-80-59 (hex) STANLEY ELECTRIC CO., LTD
008059 (base 16) STANLEY ELECTRIC CO., LTD
R&D LABORATORY

JP

00-80-CA (hex) NETCOM RESEARCH INCORPORATED
0080CA (base 16) NETCOM RESEARCH INCORPORATED
201 TECHNOLOGY DRIVE
IRVINE CA 92718
US

00-00-94
(hex) ASANTE TECHNOLOGIES
000094 (base 16) ASANTE TECHNOLOGIES
821 FOX LANE
SAN JOSE CA 95131
US

00-00-90 (hex) MICROCOM
000090 (base 16) MICROCOM
500 RIVER RIDGE DRIVE
NORWOOD MA 02062-5028
US

00-00-47 (hex) NICOLET INSTRUMENTS CORP.
000047 (base 16) NICOLET INSTRUMENTS CORP.
5225 VERONA ROAD
MADISON WI 53711
US

00-00-70 (hex) HCL LIMITED
000070 (base 16) HCL LIMITED
RESEARCH & DEVELOPMENT UNIT

IN

00-00-8F (hex) Raytheon
00008F (base 16) Raytheon
M/S 1-1-1119
Marlboro MA 01752
US

00-80-A1 (hex) MICROTEST, INC.
0080A1 (base 16) MICROTEST, INC.
4747 N. 22ND STREET
PHOENIX AZ 85016-4708
US

00-80-A9 (hex) CLEARPOINT RESEARCH
0080A9 (base 16) CLEARPOINT RESEARCH
190 NORTH MAIN STREET
NATICK MA
US

00-80-F9 (hex) HEURIKON CORPORATION
0080F9 (base 16) HEURIKON CORPORATION
8310 EXCELSIOR DRIVE
MADISON WI 53717
US

00-80-47
(hex) IN-NET CORP.
008047 (base 16) IN-NET CORP.
16720 WEST BERNARDO DRIVE
SAN DIEGO CA 92127-1904
US

00-80-67 (hex) SQUARE D COMPANY
008067 (base 16) SQUARE D COMPANY
4041 NORTH RICHARD STREET
MILWAUKEE WI 53201
US

00-80-BF (hex) TAKAOKA ELECTRIC MFG. CO. LTD.
0080BF (base 16) TAKAOKA ELECTRIC MFG. CO. LTD.
KANDA BRANCH OFFICE TONEN

JP

00-80-17 (hex) PFU LIMITED
008017 (base 16) PFU LIMITED
Nu 98-2 Unoke
Kahoku-shi, Ishikawa 929-1192
JP

00-80-F8 (hex) MIZAR, INC.
0080F8 (base 16) MIZAR, INC.
1419 DUNN DRIVE
CARROLLTON TX 75006
US

00-00-A1 (hex) MARQUETTE ELECTRIC CO.
0000A1 (base 16) MARQUETTE ELECTRIC CO.
8200 WEST TOWER AVENUE
MILWAUKEE WI 53223
US

00-00-F5 (hex) DIAMOND SALES LIMITED
0000F5 (base 16) DIAMOND SALES LIMITED
17, CHARTERHOUSE STREET
UNITED KINGDOM
GB

00-00-5C (hex) TELEMATICS INTERNATIONAL
INC.
00005C (base 16) TELEMATICS INTERNATIONAL INC.
1201 CYPRESS CREEK RD
FT. LAUDERDALE FL 33309
US

00-00-AC (hex) CONWARE COMPUTER CONSULTING
0000AC (base 16) CONWARE COMPUTER CONSULTING
KILLISFELDSTRAßE 64

DE

00-00-26 (hex) SHA-KEN CO., LTD.
000026 (base 16) SHA-KEN CO., LTD.
MINAMI-OTSUKA
TOKYO

JP

00-00-B6 (hex) MICRO-MATIC RESEARCH
0000B6 (base 16) MICRO-MATIC RESEARCH
AMBACHTENLAAN 21 B5

BE

00-00-82 (hex) LECTRA SYSTEMES SA
000082 (base 16) LECTRA SYSTEMES SA
CHEMIN DE MARTICOT

FR

00-00-2B (hex) CRISP AUTOMATION, INC
00002B (base 16) CRISP AUTOMATION, INC
5160 BLAZER PARKWAY
DUBLIN OH 43017
US

00-00-14 (hex) NETRONIX
000014 (base 16) NETRONIX
1372 MCDOWELL BLVD.
PETULAMA CA 94952
US

00-00-72 (hex) MINIWARE TECHNOLOGY
000072 (base 16) MINIWARE TECHNOLOGY
BEEMDENSTRAAT 38
THE
NL

00-00-46
(hex) OLIVETTI NORTH AMERICA
000046 (base 16) OLIVETTI NORTH AMERICA
E 22425 APPLEWAY
LIBERTY LAKE WA 99019
US

00-00-8D (hex) Cryptek Inc.
00008D (base 16) Cryptek Inc.
1501 Moran Road
Sterling VA 20166
US

00-00-3B (hex) i Controls, Inc.
00003B (base 16) i Controls, Inc.
12F Doonsan building, 105-7

KOREA 135-714
KR

00-00-98 (hex) CROSSCOMM CORPORATION
000098 (base 16) CROSSCOMM CORPORATION
450 DONALD LYNCH BOULEVARD
MARLBOROUGH MA 01752
US

00-00-C6 (hex) EON SYSTEMS
0000C6 (base 16) EON SYSTEMS
10601 SOUTH DEANZA BLVD.
CUPERTINO CA 95014
US

00-00-8B (hex) INFOTRON
00008B (base 16) INFOTRON
9 NORTH OLNEY
CHERRY HILL NJ 08003
US

00-00-74 (hex) RICOH COMPANY LTD.
000074 (base 16) RICOH COMPANY LTD.
2446 TODA, ATSUGI CITY
243
JP

00-00-35 (hex) SPECTRAGRAPHICS CORPORATION
000035 (base 16) SPECTRAGRAPHICS CORPORATION

OR
SAN DIEGO CA 92121
US

00-00-21 (hex) SUREMAN COMP. & COMMUN. CORP.
000021 (base 16) SUREMAN COMP. & COMMUN. CORP.
10F-5 NO. 7, SEC. 3
TAIPEI TAIWAN, R.O.C.
TW

00-00-51 (hex) HOB ELECTRONIC GMBH & CO. KG
000051 (base 16) HOB ELECTRONIC GMBH & CO. KG
BRANDSSTATTER-STR.2-10

DE

00-00-A7 (hex) NETWORK COMPUTING DEVICES INC.
0000A7 (base 16) NETWORK COMPUTING DEVICES INC.

350 NORTH BERNARDO
MOUNTAIN VIEW CA 94043
US

00-00-30 (hex) VG LABORATORY SYSTEMS LTD
000030 (base 16) VG LABORATORY SYSTEMS LTD
TRIBUNE AVENUE
ENGLAND
GB

00-00-20 (hex) DATAINDUSTRIER DIAB AB
000020 (base 16) DATAINDUSTRIER DIAB AB
BOX 2029

SE

00-00-7A (hex) DANA COMPUTER INC.
00007A (base 16) DANA COMPUTER INC.
550 DEL REY AVENUE
SUNNYVALE CA 94086
US

00-00-45 (hex) FORD AEROSPACE & COMM. CORP.
000045 (base 16) FORD AEROSPACE & COMM. CORP.
COLORADO
SPRINGS OPERATION
COLORADO SPRINGS CO 80908
US

00-00-9C (hex) ROLM MIL-SPEC COMPUTERS
00009C (base 16) ROLM MIL-SPEC COMPUTERS
3151 ZANKER ROAD
SAN JOSE CA 95148
US

00-00-7C (hex) AMPERE INCORPORATED
00007C (base 16) AMPERE INCORPORATED
SHINJUKU ASAHI BLDG.
TOKYO
JP

08-00-71 (hex) MATRA (DSIE)
080071 (base 16) MATRA (DSIE)
PARC D'AFFAIRES - B.P. 262

FR

08-00-6C (hex) SUNTEK TECHNOLOGY INT'L

08006C (base 16) SUNTEK TECHNOLOGY INT'L
586 NO. FIRST STREET
SAN JOSE CA 95112
US

08-00-67 (hex) ComDesign
080067 (base 16) ComDesign

Goleta CA
US

08-00-5D (hex) GOULD INC.
08005D (base 16) GOULD INC.
6901 WEST SUNRISE BLVD.
FT. LAUDERDALE FL 33310-9148
US

08-00-5B (hex) VTA TECHNOLOGIES INC.
08005B (base 16) VTA TECHNOLOGIES INC.
2040 SHERMAN STREET
HOLLYWOOD FL 33020
US

00-00-68 (hex) ROSEMOUNT CONTROLS
000068
(base 16) ROSEMOUNT CONTROLS
1300 E. LAMBERT ROAD
LA HABRA CA 90632
US

00-00-E9 (hex) ISICAD, INC.
0000E9 (base 16) ISICAD, INC.
1920 WEST CORPORATE WAY
ANAHEIM CA 92803-6122
US

00-00-9F (hex) AMERISTAR TECHNOLOGIES INC.
00009F (base 16) AMERISTAR TECHNOLOGIES INC.
47 WHITTIER AVE.
MEDFORD NY 11763
US

00-00-E3 (hex) INTEGRATED MICRO PRODUCTS LTD
0000E3 (base 16) INTEGRATED MICRO PRODUCTS LTD
IMP, NO. 1 INDUSTRIAL ESTATE
ENGLAND ENGLAND DH86TJ
GB

00-00-AD (hex) BRUKER INSTRUMENTS INC.
0000AD (base 16) BRUKER INSTRUMENTS INC.
MANNING PARK
BILLERICA MA 01821
US

00-00-D3 (hex) WANG LABORATORIES INC.
0000D3 (base 16) WANG LABORATORIES INC.

00-00-D0 (hex) DEVELCON ELECTRONICS LTD.
0000D0 (base 16) DEVELCON ELECTRONICS LTD.
856-51ST STREET EAST

CA

00-00-93 (hex) PROTEON INC.
000093 (base 16) PROTEON INC.
4 TECH CIRCLE
NATICK
MA 01760
US

08-00-57 (hex) Evans & Sutherland
080057 (base 16) Evans & Sutherland

Salt Lake City UT
US

08-00-81 (hex) ASTECH INC.
080081 (base 16) ASTECH INC.
670 NORTH COMMERCIAL STREET
MANCHESTER NH 03101
US

00-00-B3 (hex) CIMLINC INCORPORATED
0000B3 (base 16) CIMLINC INCORPORATED
1957 CROOKS ROAD
TROY MI 48084
US

08-00-8C (hex) NETWORK RESEARCH CORPORATION
08008C (base 16) NETWORK RESEARCH CORPORATION
2380 N. ROSE AVENUE
OXNARD CA 93010
US

00-00-F1 (hex) MAGNA COMPUTER CORPORATION
0000F1 (base 16) MAGNA COMPUTER CORPORATION
22 KEEWAYDIN DRIVE
SALEM NH 03079
US

00-00-54 (hex) Schneider Electric
000054 (base 16) Schneider Electric
35 rue Joseph Monier

FR

04-0A-E0 (hex) XMIT AG COMPUTER NETWORKS
040AE0 (base 16) XMIT AG COMPUTER NETWORKS
11 AVENUE DE BAUMETTES

CH

00-DD-00 (hex) UNGERMANN-BASS INC.
00DD00
(base 16) UNGERMANN-BASS INC.
3900 FREEDOM CIRCLE
SANTA CLARA CA 95054
US

00-00-AA (hex) XEROX CORPORATION
0000AA (base 16) XEROX CORPORATION
M/S 105-50C
WEBSTER NY 14580
US

08-00-11 (hex) TEKTRONIX INC.
080011 (base 16) TEKTRONIX INC.
TECHNICAL STANDARDS
BEAVERTON OR 97077
US

08-00-17 (hex) NATIONAL SEMICONDUCTOR
080017 (base 16) NATIONAL SEMICONDUCTOR
2900 SEMICONDUCTOR DRIVE
SANTA CLARA CA 95051
US

08-00-1D (hex) ABLE COMMUNICATIONS INC.
08001D (base 16) ABLE COMMUNICATIONS INC.
17891 CARTWRIGHT ROAD
IRVINE CA 92714-6216

US

00-DD-0B (hex) UNGERMANN-BASS INC.
00DD0B (base 16) UNGERMANN-BASS INC.
3900 FREEDOM CIRCLE
SANTA CLARA CA 95054
US

08-00-2D (hex) LAN-TEC INC.
08002D (base 16) LAN-TEC INC.
2131 UNIVERSITY AVENUE
BERKELEY CA 94704
US

08-00-26 (hex) NORSK DATA A.S.
080026 (base 16) NORSK DATA A.S.
P.O. BOX 25
BOGERUD

NO

08-00-25 (hex) CONTROL DATA
080025 (base 16) CONTROL DATA
4201 LEXINGTON AVE NORTH
ARDEN HILLS MN 55112
US

10-00-00 (hex) Private
100000 (base 16) Private

00-00-D7 (hex) DARTMOUTH COLLEGE
0000D7 (base 16) DARTMOUTH COLLEGE
KIEWIT COMPUTER CENTER
HANOVER NH 03755
US

F8-09-A4 (hex) Henan Thinker Rail Transportation Research Inc.
F809A4 (base 16) Henan Thinker Rail Transportation Research Inc.
No.63 Dulan Road, High-tech Development Zone
Zhengzhou Henan 450001
CN

08-00-03 (hex) ADVANCED COMPUTER COMM.
080003 (base 16) ADVANCED COMPUTER COMM.
720 SANTA BARBARA ST.
SANTA BARBARA CA 93101
US

00-DD-0F (hex) UNGERMANN-BASS INC.
00DD0F (base 16) UNGERMANN-BASS INC.
3900 FREEDOM CIRCLE
SANTA CLARA CA 95054
US

00-00-01 (hex) XEROX CORPORATION
000001 (base 16) XEROX CORPORATION
M/S 105-50C
WEBSTER NY 14580
US

00-DD-03 (hex) UNGERMANN-BASS
INC.
00DD03 (base 16) UNGERMANN-BASS INC.
3900 FREEDOM CIRCLE
SANTA CLARA CA 95054
US

AA-00-04 (hex) DIGITAL EQUIPMENT CORPORATION
AA0004 (base 16) DIGITAL EQUIPMENT CORPORATION
LKG 1-2/A19
LITTLETON MA 01460-1289
US

08-00-0C (hex) MIKLYN DEVELOPMENT CO.
08000C (base 16) MIKLYN DEVELOPMENT CO.
3613 ANDOVER DIVE
BEDFORD TX 76021
US

00-DD-05 (hex) UNGERMANN-BASS INC.
00DD05 (base 16) UNGERMANN-BASS INC.
3900 FREEDOM CIRCLE
SANTA CLARA CA 95054
US

A8-42-A1 (hex) TP-Link Corporation Limited
A842A1 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

9C-F5-5F (hex) Harman/Becker Automotive Systems GmbH
9CF55F (base 16) Harman/Becker Automotive Systems GmbH
Becker-Göring-Straße 16
Karlsbad Baden-Württemberg 76307
DE

90-2C-09 (hex) Apple, Inc.
902C09 (base 16) Apple,
Inc.
1 Infinite Loop
Cupertino CA 95014
US

A0-B4-0F (hex) Apple, Inc.
A0B40F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

48-D0-17 (hex) Telecom Infra Project
48D017 (base 16) Telecom Infra Project
401 Edgewater PL, STE 600
wakefield MA 01880-6200
US

EC-0D-51 (hex) Apple, Inc.
EC0D51 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-DF-A1 (hex) Apple, Inc.
ACDFA1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C8-CC-B5 (hex) Hunter Douglas
C8CCB5 (base 16) Hunter Douglas
One Duette Way
Broomfield CO 80020
US

C0-5F-87 (hex) Legrand INTELLIGENT ELECTRICAL(HUIZHOU)CO.,LTD.
C05F87 (base 16) Legrand INTELLIGENT ELECTRICAL(HUIZHOU)CO.,LTD.
39 East Hechang 6 Road, Zhongkai High-tech Zone, Huizhou City, Guangdong Province
Huizhou City Guangdong Province 516001
CN

80-7C-0A (hex) zte corporation
807C0A
(base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China

shenzhen guangdong 518057
CN

48-83-6F (hex) EM Microelectronic
48836F (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

F4-83-2C (hex) OHSUNG
F4832C (base 16) OHSUNG
335-4,SANHODAERO,GUMI,GYEONG BUK,KOREA
GUMI GYEONG BUK 730-030
KR

68-52-10 (hex) MCS Logic
685210 (base 16) MCS Logic
128, Beobwon-ro, Songpa-gu, Seoul 05854
seoul 05854
KR

A8-7C-45 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A87C45 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

2C-ED-B0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
2CEDB0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

2C-69-3E (hex) HUAWEI TECHNOLOGIES CO.,LTD
2C693E (base 16) HUAWEI TECHNOLOGIES
CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

14-DA-B9 (hex) Huawei Device Co., Ltd.
14DAB9 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

B0-CA-E7 (hex) Huawei Device Co., Ltd.
B0CAE7 (base 16) Huawei Device Co., Ltd.

No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

DC-62-1F (hex) HUAWEI TECHNOLOGIES CO.,LTD
DC621F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

48-ED-E6 (hex) Zyxel Communications Corporation
48EDE6 (base 16) Zyxel Communications Corporation
No. 6, Innovation Road II
Hsinchu 300
TW

70-BD-D2 (hex) Adva Network Security GmbH
70BDD2 (base 16) Adva Network Security GmbH
Justus-von-Liebig-Strasse 7
Berlin 12489
DE

A4-10-B6 (hex) Cisco Systems,
Inc
A410B6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

C8-47-09 (hex) Cisco Systems, Inc
C84709 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-D5-98 (hex) BOPEL MOBILE TECHNOLOGY CO.,LIMITED
00D598 (base 16) BOPEL MOBILE TECHNOLOGY CO.,LIMITED
RM603,6/F,HANG PONT COMM BLDG 31 TONKIN ST CHEUNG SHA WAN KL
Hong Kong 999077
CN

90-45-28 (hex) Nintendo Co.,Ltd
904528 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

F4-52-46 (hex) ASKEY COMPUTER CORP

F45246 (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI 23585
TW

3C-25-F8 (hex) Dell Inc.
3C25F8 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

00-03-24 (hex) LIMNO Co., Ltd.
000324 (base 16) LIMNO Co., Ltd.
7-101 Tachikawa-cho
Tottori City 680-8634
JP

D0-0B-27
(hex) Murata Manufacturing Co., Ltd.
D00B27 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

4C-57-39 (hex) Samsung Electronics Co.,Ltd
4C5739 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

6C-16-29 (hex) Edifier International
6C1629 (base 16) Edifier International
Suit 2207, 22nd floor, Tower II, Lippo centre, 89 Queensway
Hong Kong 070
CN

F0-37-CF (hex) Huawei Device Co., Ltd.
F037CF (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

2C-C8-F5 (hex) Huawei Device Co., Ltd.
2CC8F5 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

48-E5-33 (hex) Sunnovo International Limited
48E533 (base 16) Sunnovo International Limited
Unit 805, 8/F, (MF2032), Harbour Crystal
Centre, 100 Granville Road, Tsimshatsui East, Kowloon, HK.
Kowloon MF2032
HK

F0-FD-DD (hex) Foxtron Vehicle Technologies Co., Ltd.
F0FDDD (base 16) Foxtron Vehicle Technologies Co., Ltd.
8F. No. 3 Sec. 3 Zhongxing Rd. Xindian Dist. New Taipei City
New Taipei City 23144
TW

AC-36-1B (hex) Hon Hai Precision Industry Co.,LTD
AC361B (base 16) Hon Hai Precision Industry Co.,LTD
66.Chung Shan RD, TU-CHENG Industrial , district new TAIPEI CITY,23678 , TAIWAN CHINA
TAIPEI 66.Chung Shan RD, TU-CHENG Industrial , district new TAIPEI 33859
CN

B8-06-0D (hex) Tuya Smart Inc.
B8060D (base 16) Tuya Smart Inc.
160 Greentree Drive, Suite 101
Dover DE 19904
US

C8-E1-93 (hex) ITEL MOBILE LIMITED
C8E193 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

D4-A2-3D (hex) New H3C Technologies Co., Ltd
D4A23D
(base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

D8-13-2A (hex) Espressif Inc.
D8132A (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

9C-1E-CE (hex) ALT Co., Ltd.
9C1ECE (base 16) ALT Co., Ltd.
#1201, 8, Seongnam-dearo 331beon-gil
Bundang-gu, Seongnam-si Gyeonggi-do 13558

KR

00-1F-9C (hex) Havis Inc.
001F9C (base 16) Havis Inc.
75 Jacksonville Road
Warminster PA 18974
US

80-65-99 (hex) Espressif Inc.
806599 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

BC-9A-8E (hex) HUMAX NETWORKS
BC9A8E (base 16) HUMAX NETWORKS
HUMAX VILLAGE, 216Hwangsaeul-ro, Bundang gu
Seongnam-si Gyeonggi-do 13595
KR

50-20-65 (hex) Quectel Wireless Solutions Co.,Ltd.
502065 (base 16) Quectel Wireless Solutions
Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

FC-47-8D (hex) SHENZHEN TOPWELL TECHNOLOGY CO., LTD.
FC478D (base 16) SHENZHEN TOPWELL TECHNOLOGY CO., LTD.
15/F, Building A1, Qiaode Science & Technology Park, No.7 Road, Hi-Tech Industry Park ,Guangming new district
Shenzhen Guang Dong 518000
CN

28-CB-5C (hex) Shenzhen CPETEK Technology Co.,Ltd.
28CB5C (base 16) Shenzhen CPETEK Technology Co.,Ltd.
Room 201,building A,No.1 Qianwan 1st Road,Shenzhen Hongkong cooperation
zone,Qianhai,Shenzhen,Guangdong,China
Shenzhen Guangdong 518066
CN

D0-5B-CB (hex) Tianyi Telecom Terminals Company Limited
D05BCB (base 16) Tianyi Telecom Terminals Company Limited
2F,No. 31, Jinrong Street, Xicheng District,Beijing
Beijing Beijing 100073
CN

00-C0-F2 (hex) Lantronix
00C0F2 (base 16) Lantronix

48 Discovery, Suite 250
Irvine CA 92618
US

A0-00-4C
(hex) HISENSE VISUAL TECHNOLOGY CO.,LTD
A0004C (base 16) HISENSE VISUAL TECHNOLOGY CO.,LTD
Qianwangang Road 218
Qingdao Shandong 266510
CN

E4-AA-E4 (hex) Xiaomi Communications Co Ltd
E4AAE4 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

68-C4-4C (hex) Xiaomi Communications Co Ltd
68C44C (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

E4-F8-BE (hex) TECNO MOBILE LIMITED
E4F8BE (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

D8-E5-93 (hex) Apple, Inc.
D8E593 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

CC-68-E0 (hex) Apple, Inc.
CC68E0 (base 16) Apple, Inc.
1 Infinite
Loop
Cupertino CA 95014
US

10-2C-B1 (hex) Smart Innovation LLC
102CB1 (base 16) Smart Innovation LLC
400 108th Ave NE?Ste 400
Bellevue WA 98004
US

70-DA-48 (hex) Cisco Systems, Inc
70DA48 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

04-AE-C7 (hex) Marquardt
04AEC7 (base 16) Marquardt
2711 US-20
CAZENOVIA NY 13035
US

F4-B6-2D (hex) Dongguan Huayin Electronic Technology Co., Ltd.
F4B62D (base 16) Dongguan Huayin Electronic Technology Co., Ltd.
Room 101, No.8 Xinglong 3rd Road, Shipai Town
Dongguan Guangdong 523000
CN

20-10-8A (hex) zte corporation
20108A (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

58-FF-A1 (hex) zte corporation
58FFA1 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

B0-8B-9E
(hex) Telechips, Inc.
B08B9E (base 16) Telechips, Inc.
19F~23F,Luther Bldg.42, Olympic-ro 35da-gil, Songpa-gu,
Seoul Seoul 05510
KR

BC-1F-E1 (hex) Ascendent Technology Group
BC1FE1 (base 16) Ascendent Technology Group
15 - 9th Avenue South
Cranbrook BC V1C 2L9
CA

B8-B1-EA (hex) Honor Device Co., Ltd.
B8B1EA (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District

Shenzhen Guangdong 518040
CN

2C-58-B9 (hex) HP Inc.
2C58B9 (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

30-50-F1 (hex) Ennoconn Corporation.
3050F1 (base 16) Ennoconn Corporation.
3-6F,No.10,JiangKang Rd.,Zhonghe Dist.,New Taipei City 23586,Taiwan
TaiPei Taiwan 23586
TW

B0-FA-91 (hex) EM Microelectronic
B0FA91 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

AC-DB-22
(hex) Marquardt Schaltsysteme SCS
ACDB22 (base 16) Marquardt Schaltsysteme SCS
Muenchen 2
Sibiu Romania 550018
RO

48-80-02 (hex) Cisco Systems, Inc
488002 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

B4-6A-D4 (hex) Edgecore Americas Networking Corporation
B46AD4 (base 16) Edgecore Americas Networking Corporation
20 Mason
Irvine 92618
US

AC-71-2E (hex) Fortinet, Inc.
AC712E (base 16) Fortinet, Inc.
899 Kifer Road
Sunnyvale 94086
US

F8-01-B4 (hex) LG Electronics
F801B4 (base 16) LG Electronics

222 LG-ro, JINWI-MYEON
Pyeongtaek-si Gyeonggi-do 451-713
KR

54-21-A9 (hex) ITEL MOBILE LIMITED
5421A9 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

10-73-C6 (hex) August Internet Limited
1073C6 (base 16) August Internet Limited
No.
250, Yang-Guang Street
Taipei 11491
TW

CC-D8-43 (hex) Beijing Xiaomi Mobile Software Co., Ltd
CCD843 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

C0-35-32 (hex) Liteon Technology Corporation
C03532 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

74-06-35 (hex) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
740635 (base 16) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
NO.8 Tangzhuang Road,Suzhou Industrial Park,Su ZhouCity,JiangSu Province,China
Suzhou 215021
CN

D4-F9-21 (hex) Qingdao Intelligent&Precise Electronics Co.,Ltd.
D4F921 (base 16) Qingdao Intelligent&Precise Electronics Co.,Ltd.
No.218 Qianwangang Road
Qingdao Shangdong 266510
CN

7C-C0-AA (hex) Microsoft Corporation
7CC0AA (base 16) Microsoft Corporation
One
Microsoft Way
REDMOND WA 98052
US

60-60-1F (hex) SZ DJI TECHNOLOGY CO.,LTD
60601F (base 16) SZ DJI TECHNOLOGY CO.,LTD
DJI Sky City, No55 Xianyuan Road, Nanshan District
Shenzhen Guangdong 518057
CN

E4-7A-2C (hex) SZ DJI TECHNOLOGY CO.,LTD
E47A2C (base 16) SZ DJI TECHNOLOGY CO.,LTD
DJI Sky City, No55 Xianyuan Road, Nanshan District
Shenzhen Guangdong 518057
CN

94-AB-18 (hex) cellXica ltd
94AB18 (base 16) cellXica ltd
Building 7200, Suite 7224 Cambridge Research Park, Beach Drive, Waterbeach
Cambridge Cambridgeshire CB25 9TL
GB

F0-3F-03 (hex) Private
F03F03 (base 16) Private

C4-21-B9 (hex) zte corporation
C421B9 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

08-A5-DF (hex) Samsung Electronics Co.,Ltd
08A5DF (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

6C-D6-3F
(hex) HUAWEI TECHNOLOGIES CO.,LTD
6CD63F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

0C-18-4E (hex) HUAWEI TECHNOLOGIES CO.,LTD
0C184E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D4-F7-D5 (hex) Sony Interactive Entertainment Inc.
D4F7D5 (base 16) Sony Interactive Entertainment Inc.

1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

98-28-8B (hex) zhejiang Dusun Electron Co.,Ltd
98288B (base 16) zhejiang Dusun Electron Co.,Ltd
NO.640 FengQing str.,
DeQing ZheJiang 313000
CN

BC-B2-CC (hex) Samsung Electronics Co.,Ltd
BCB2CC (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E0-E8-E6 (hex) Shenzhen C-Data Technology Co., Ltd.
E0E8E6 (base 16) Shenzhen C-Data Technology Co., Ltd.
#201, Building
A4, Nanshan Zhiyuan, No.1001, Xueyuan Avenue, Changyuan Community,Taoyuan,Nanshan
Shenzhen Guangdong 518055
CN

6C-1F-F7 (hex) Ugreen Group Limited
6C1FF7 (base 16) Ugreen Group Limited
4F, Plant 6, 1F-6/F, Block 7, YuAn Zone, Gaofeng Community, Dalang Street, Longhua District
Shenzhen Guangdong 518109
CN

04-5E-A4 (hex) Netis Technology Co., Ltd.
045EA4 (base 16) Netis Technology Co., Ltd.
Building 6, Baolong Plant, Able Technology Park, Longgang District
SHENZHEN 518116
CN

64-EE-B7 (hex) Netis Technology Co., Ltd.
64EEB7 (base 16) Netis Technology Co., Ltd.
Building 6, Baolong Plant, Able Technology Park, Longgang District,
Shenzhen 518116
CN

04-8D-38 (hex) Netis Technology Co., Ltd.
048D38 (base 16) Netis Technology Co., Ltd.
9F,B block,Tsinghua Information Guard
Shenzhen Guangdong 518057
CN

E8-25-87 (hex) Shenzhen Chilink IoT Technology Co., Ltd.

E82587 (base 16) Shenzhen
Chilink IoT Technology Co., Ltd.
No. A512, Building A, Famous And Excellent Industrial Products Exhibition And Procurement Center, Baoyuan Road, Bao'an District
ShenZhen GuangDong 518102
CN

50-7B-91 (hex) Sigmastar Technology Ltd.
507B91 (base 16) Sigmastar Technology Ltd.
No. 1, HoZan Road, Tong'an District
X iamen Fujian Province 361100
CN

8C-44-A5 (hex) Cisco Systems, Inc
8C44A5 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

08-E3-42 (hex) Cear, Inc.
08E342 (base 16) Cear, Inc.
6F, Takei Bldg. 2-19-6, Taito,
Taito-ku Tokyo 110-0016
JP

F4-FE-3E (hex) Apple, Inc.
F4FE3E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

34-2B-6E (hex) Apple, Inc.
342B6E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

60-65-25 (hex) Apple, Inc.
606525 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

14-55-B9
(hex) Nokia Solutions and Networks GmbH & Co. KG
1455B9 (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541

DE

F4-39-A6 (hex) Apple, Inc.
F439A6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

FC-55-57 (hex) Apple, Inc.
FC5557 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

8C-55-70 (hex) IEEE Registration Authority
8C5570 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

A0-E0-25 (hex) Provision-ISR
A0E025 (base 16) Provision-ISR
Atir Yeda 11
Kfar Saba 4464310
IL

9C-24-72 (hex) Sagemcom Broadband SAS
9C2472 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

80-85-44 (hex) Intelbras
808544 (base 16) Intelbras
BR 101, km 210, S/N°
São José Santa Catarina 88104800
BR

78-CD-55
(hex) Texas Instruments
78CD55 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

8C-08-79 (hex) Texas Instruments
8C0879 (base 16) Texas Instruments
12500 TI Blvd

Dallas TX 75243
US

68-23-B0 (hex) Texas Instruments
6823B0 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

24-69-8E (hex) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
24698E (base 16) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
6th Floor, South Section, Building 23, Keyuan West, NO.1 Kezhi West Road, Science and Technology Community, Yuehai Street, Nanshan District
Shenzhen Guangdong 518057
CN

64-0D-CE (hex) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
640DCE (base 16) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
6th Floor, South Section, Building 23, Keyuan West, NO.1 Kezhi West Road, Science and Technology Community, Yuehai Street, Nanshan District
Shenzhen
Guangdong 518057
CN

F8-F5-19 (hex) Rulogic Inc.
F8F519 (base 16) Rulogic Inc.
501 Silverside Road, Suite 105
Wilmington DE 19809
US

A4-6D-D4 (hex) Silicon Laboratories
A46DD4 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

0C-AE-5F (hex) Silicon Laboratories
0CAE5F (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

28-DB-A7 (hex) Silicon Laboratories
28DBA7 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

6C-5C-B1 (hex) Silicon Laboratories
6C5CB1 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

5C-C7-C1 (hex) Silicon Laboratories
5CC7C1 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

60-B6-47 (hex) Silicon Laboratories
60B647 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

20-5A-1D
(hex) zte corporation
205A1D (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

34-25-B4 (hex) Silicon Laboratories
3425B4 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

4C-B7-E0 (hex) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
4CB7E0 (base 16) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
6th Floor, South Section, Building 23, Keyuan West, NO.1 Kezhi West Road, Science and Technology Community, Yuehai Street, Nanshan District
Shenzhen Guangdong 518057
CN

BC-0F-B7 (hex) sywinkey HongKong Co,. Limited?
BC0FB7 (base 16) sywinkey HongKong Co,. Limited?
RM2,3/F Ruby CDMN Building No. 480 Nathan Road KL
HongKong HongKong 999077
CN

58-3B-C2 (hex) Silicon Laboratories
583BC2 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701

US

00-60-05 (hex) Touchstar
ATC Limited
006005 (base 16) Touchstar ATC Limited
7 Commerce Way, Stretford
Manchester M17 1HW
GB

54-60-6D (hex) HUAWEI TECHNOLOGIES CO.,LTD
54606D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

60-1D-56 (hex) Extreme Networks Headquarters
601D56 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

44-D4-65 (hex) NXP Semiconductors Taiwan Ltd.
44D465 (base 16) NXP Semiconductors Taiwan Ltd.
No. 10, Jing 5th Rd., Nanzi Dist., Kaohsiung City 811643, Taiwan
Nanzi Dist. Kaohsiung 811643
TW

AC-BA-C0 (hex) Intertech Services AG
ACBAC0 (base 16) Intertech Services AG
Werftestrasse 4
Luzern 6005
CH

00-CA-E0 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
00CAE0 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN
GUANG DONG 523860
CN

D4-F0-4A (hex) SKY UK LIMITED
D4F04A (base 16) SKY UK LIMITED
Grant Way
Isleworth Middlesex TW7 5QD
GB

9C-F1-D4 (hex) Roku, Inc
9CF1D4 (base 16) Roku, Inc

1155 Coleman Ave
San Jose CA 95110
US

00-40-8C (hex) Axis Communications AB
00408C (base 16) Axis Communications AB
SCHEELEVAGEN 16

SE

3C-45-0B (hex) Sentry Equipment Corp.
3C450B (base 16) Sentry Equipment Corp.
966 Blue Ribbon Cir N
Oconomowoc WI 53066
US

1C-7A-CF (hex) vivo Mobile Communication Co., Ltd.
1C7ACF (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

A8-6A-86 (hex) Xiaomi Communications Co Ltd
A86A86 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

A4-86-DB (hex) Guangdong Juan Intelligent Technology Joint Stock Co., Ltd.
A486DB
(base 16) Guangdong Juan Intelligent Technology Joint Stock Co., Ltd.
The first and second floors of Building 2 (Plant No. 2), West Side of Shanxi Village, Dashi Street,Panyu District, G uangzhou
Guangzhou Guangdong 510000
CN

9C-63-C0 (hex) Mellanox Technologies, Inc.
9C63C0 (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

5C-25-73 (hex) Mellanox Technologies, Inc.
5C2573 (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

B8-7E-39 (hex) Motorola Mobility LLC, a Lenovo Company
B87E39 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

54-EC-B0 (hex) Sercomm France Sarl
54ECB0 (base 16) Sercomm France Sarl
2/4 Rue Maurice Hartmann 92370 Issy Les Moulineaux France
Moulineaux 92370
FR

64-67-72 (hex) SERCOMM PHILIPPINES INC
646772 (base
16) SERCOMM PHILIPPINES INC
Lot 1 & 5, Phase 1, Filinvest Technology Park 1, Brgy. Punta, Calamba City
Calamba Lot 1
PH

70-D5-1E (hex) Fiberhome Telecommunication Technologies Co.,LTD
70D51E (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

10-90-FA (hex) New H3C Technologies Co., Ltd
1090FA (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

74-73-E2 (hex) Hillstone Networks Corp.
7473E2 (base 16) Hillstone Networks Corp.
5201 Great America Pkwy, #420 Santa Clara, CA 95054
Santa Clara CA 95054
US

D4-01-C3 (hex) Routerboard.com
D401C3 (base 16) Routerboard.com
Mikrotikls SIA
Riga Riga LV1009
LV

74-07-7E (hex) Quectel Wireless Solutions Co.,Ltd.
74077E (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai

200233
CN

30-EC-7C (hex) Shenzhen Along Electronics Co., Ltd
30EC7C (base 16) Shenzhen Along Electronics Co., Ltd
Shenzhen Baoan District Xixiang street Gushu community new Industrial Park 35
Shenzhen Guangdong 518126
CN

DC-DA-4D (hex) CELESTICA INC.
DCDA4D (base 16) CELESTICA INC.
1900-5140 Yonge Street PO Box 42
Toronto Ontario M2N 6L7
CA

50-5E-24 (hex) zte corporation
505E24 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

38-26-56 (hex) TCL King Electrical Appliances(Huizhou)Co.,Ltd
382656 (base 16) TCL King Electrical Appliances(Huizhou)Co.,Ltd
B Area, 10th floor, TCL multimedia Building, TCL International E City, #1001 Zhonshanyuan road,Shenzhen
guangdong China 518058
CN

84-BA-59 (hex) Wistron InfoComm(Chongqing)Co.,Ltd.
84BA59 (base 16) Wistron InfoComm(Chongqing)Co.,Ltd.
No.18-9 Baohong Avenue, Wangjia
Street, Yubei District, Chongqing
Chongqing Yubei 4001120
CN

B0-9E-1B (hex) Butlr Technologies, Inc.
B09E1B (base 16) Butlr Technologies, Inc.
800 Airport Boulevard, Ste 510
Burlingame CA 94010
US

14-A1-DF (hex) China Mobile Group Device Co.,Ltd.
14A1DF (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

8C-5C-20 (hex) ARRIS Group, Inc.
8C5C20 (base 16) ARRIS Group, Inc.

6450 Sequence Drive
San Diego CA 92121
US

D0-A0-11 (hex) IEEE Registration Authority
D0A011 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

D8-F7-60 (hex) EM Microelectronic
D8F760 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

00-50-92 (hex) Rigaku Corporation Osaka Plant
005092 (base 16) Rigaku Corporation Osaka Plant
14-8, Akaoji, Takatsuki
Osaka 569-1146
JP

A8-CF-E0
(hex) GDN Enterprises Private Limited
A8CFE0 (base 16) GDN Enterprises Private Limited
D-348, Sector-63, Gautam Buddha Nagar, Noida, Uttar Pradesh - 201301
Noida Uttar Pradesh 201301
IN

54-C6-A6 (hex) Hubei Yangtze Mason Semiconductor Technology Co., Ltd.
54C6A6 (base 16) Hubei Yangtze Mason Semiconductor Technology Co., Ltd.
9F,Qingshan Big Data Valley, No.1,Jianshe 2nd Road, Qingshan District, Wuhan, Hubei
Wuhan, Hubei 430080
CN

D0-B3-C2 (hex) Meta Platforms Technologies, LLC
D0B3C2 (base 16) Meta Platforms Technologies, LLC
1601 Willow Rd
Menlo Park CA 94025
US

40-B8-2D (hex) Ruckus Wireless
40B82D (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

B0-B3-69 (hex) Shenzhen SDMC Technology CO.,Ltd.

B0B369 (base 16) Shenzhen SDMC Technology CO.,Ltd.
Room 1022, Floor 10, Building A, Customs Building, No. 2, Xin'an 3rd Road, Dalang Community, Xin'an Street, Bao'an District
Shenzhen GUANGDONG 518101
CN

C4-3E-AB (hex) Huawei Device Co., Ltd.
C43EAB (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

CC-44-60 (hex) Huawei Device Co., Ltd.
CC4460 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

24-50-6F (hex) THINKCAR TECH CO.,LTD.
24506F (base 16) THINKCAR TECH CO.,LTD.
2606,Building 4, Phase ll, Tianan Yungu, Gangtou community, Bantian Longgang District
Shenzhen Guangdong 518000
CN

34-EA-10 (hex) Orbic North America
34EA10 (base 16) Orbic North America
555 Wireless Blvd.
Hauppauge NY 11788
US

6C-92-CF (hex) Broadcom Limited
6C92CF (base 16) Broadcom Limited
15191 Alton Parkway
Irvine CA 92618
US

F4-31-49 (hex) Pixel FX
F43149 (base 16) Pixel FX
8001 Moore Road
Indianapolis IN 46278
US

78-E9-96
(hex) IEEE Registration Authority
78E996 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

3C-35-76 (hex) ITEL MOBILE LIMITED
3C3576 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

A0-21-AA (hex) China Mobile Group Device Co.,Ltd.
A021AA (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

F4-20-15 (hex) Guangzhou Shiyuan Electronic Technology Company Limited
F42015 (base 16) Guangzhou Shiyuan Electronic Technology Company Limited
No.6, 4th Yunpu Road, Yunpu industry District
Guangzhou Guangdong 510530
CN

1C-7A-43 (hex) vivo Mobile Communication Co., Ltd.
1C7A43 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

08-44-73 (hex) zte corporation
084473
(base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

B4-77-48 (hex) Shenzhen Neoway Technology Co.,Ltd.
B47748 (base 16) Shenzhen Neoway Technology Co.,Ltd.
Room 4401, Building 1, Huide Tower, Beizhan Community, Minzhi Sub-district, Longhua District
Shenzhen Guangdong 518000
CN

90-21-2E (hex) Apption Labs Ltd
90212E (base 16) Apption Labs Ltd
66 Commercial Square
Leicester Leicestershire LE2 7SR
GB

50-D4-48 (hex) Private
50D448 (base 16) Private

94-35-89 (hex) HUAWEI TECHNOLOGIES CO.,LTD

943589 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-26-1D (hex) HUAWEI TECHNOLOGIES CO.,LTD
94261D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A4-5C-25 (hex) Texas
Instruments
A45C25 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

98-F4-87 (hex) Texas Instruments
98F487 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

FC-59-9F (hex) Ruijie Networks Co.,LTD
FC599F (base 16) Ruijie Networks Co.,LTD
Building 19,Juyuanzhou Industrial Park, No.618 Jinshan Avenue, Cangshan District
Fuzhou 35000
CN

84-A3-29 (hex) Arcadyan Corporation
84A329 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

9C-09-8B (hex) Cisco Systems, Inc
9C098B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

9C-58-84 (hex) Apple, Inc.
9C5884 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

24-B3-39 (hex) Apple, Inc.
24B339 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E0-4E-7A (hex) Nanjing Qinheng Microelectronics Co., Ltd.
E04E7A (base 16) Nanjing Qinheng Microelectronics Co., Ltd.
No.18, Ningshuang Road
Nanjing Jiangsu 210012
CN

D0-76-02 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
D07602 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.2,Jin-da Road,Huinan Industrial Park
Hui Zhou Guangdong 516025
CN

6C-EF-BD (hex) Cisco Meraki
6CEFBD (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco 94158
US

84-82-1B (hex) PROX SG Pte Ltd
84821B (base 16) PROX SG Pte Ltd
39 Woodlands Close, #03-32 Mega@Woodlands
Singapore 737856
SG

94-BD-BE (hex) TPV Display Technology (Xiamen) Co.,Ltd.
94BDBE (base 16) TPV Display Technology (Xiamen) Co.,Ltd.
No.1, Xianghai Road, Xiamen Torch Hi-Tech Industrial Development Zone
XM Fujian 361101
CN

94-0B-FA (hex) EM Microelectronic
940BFA (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

80-A5-79
(hex) IEEE Registration Authority
80A579 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554

US

74-39-89 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
743989 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

28-39-84 (hex) Qidi Technology (shanghai) Co.,Ltd.
283984 (base 16) Qidi Technology (shanghai) Co.,Ltd.
Building C, No. 888 Huanhu West Second Road, Pudong New District, Shanghai City, China
shanghai 200127
CN

5C-FA-5A (hex) Sinepower Lda
5CFA5A (base 16) Sinepower Lda
Rua Augusto Marques Branco, Lote 21-AZona Industrial do Mamodeiro
Aveiro Aveiro 3810-783
PT

F4-9D-8A (hex) Fantasia Trading LLC
F49D8A (base 16) Fantasia Trading LLC
5350 Ontario Mills Pkwy, Suite 100
Ontario CA 91764
US

7C-99-2E (hex) Shanghai Notion lnformatio Technology
Co.,Ltd.
7C992E (base 16) Shanghai Notion lnformatio Technology Co.,Ltd.
Room 407-409, No.2, Lane 666, Zhangheng Road, China (Shanghai) Pilot Free Trade Zone
Shanghai 200000
CN

8C-EA-88 (hex) Chengdu Yocto Communication Technology Co.Ltd.
8CEA88 (base 16) Chengdu Yocto Communication Technology Co.Ltd.
No.618,Fengshu Street,Jinjiang District
Chengdu Sichuan 610011
CN

10-5F-AD (hex) Intel Corporate
105FAD (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

4C-B0-4A (hex) Intel Corporate
4CB04A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3

Kulim Kedah 09000
MY

40-EE-BE (hex) NXP Semiconductor (Tianjin) LTD.
40EEBE (base 16) NXP Semiconductor (Tianjin) LTD.
No.15 Xinghua Avenue, Xiqing Economic Development Area
Tianjin 300385
CN

FC-98-16 (hex) ALPSALPINE CO,.LTD
FC9816 (base 16) ALPSALPINE CO,.LTD
nishida 6-1
kakuda-City Miyagi-Pref
981-1595
JP

E0-8F-4C (hex) Intel Corporate
E08F4C (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

54-72-6E (hex) Daimler Truck AG
54726E (base 16) Daimler Truck AG
Fasanenweg 10
Leinfelden-Echterdingen 70771
DE

3C-0A-7A (hex) Samsung Electronics Co.,Ltd
3C0A7A (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

24-24-B7 (hex) Samsung Electronics Co.,Ltd
2424B7 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F0-05-1B (hex) Samsung Electronics Co.,Ltd
F0051B (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

BC-A0-80 (hex) Samsung Electronics Co.,Ltd
BCA080 (base 16) Samsung Electronics Co.,Ltd

#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-2B-70 (hex) Samsung Electronics Co.,Ltd
002B70 (base 16) Samsung Electronics
Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C4-46-06 (hex) Cisco Systems, Inc
C44606 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

FC-5C-EE (hex) LCFC(HeFei) Electronics Technology co., ltd
FC5CEE (base 16) LCFC(HeFei) Electronics Technology co., ltd
No.3188-1,YunGu Road(Comprehensive Bonded Zone),Hefei Economic and Technological Development Area
HEFEI 230601
CN

88-65-9F (hex) Fiberhome Telecommunication Technologies Co.,LTD
88659F (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

EC-FC-C6 (hex) Aruba, a Hewlett Packard Enterprise Company
ECFCC6 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

48-74-10 (hex) Cisco Systems, Inc
487410 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

B4-36-A9 (hex) Fibocom Wireless
Inc.
B436A9 (base 16) Fibocom Wireless Inc.
5/F,Tower A,Technology Building II,1057# Nanhai Blvd
Shenzhen GuangDong 518000
CN

6C-87-20 (hex) New H3C Technologies Co., Ltd
6C8720 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

0C-8D-7A (hex) RADiflow
0C8D7A (base 16) RADiflow
HaBarzel St 38
Tel-Aviv 6971054
IL

FC-A9-F5 (hex) Xiaomi Communications Co Ltd
FCA9F5 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

B8-50-01 (hex) Extreme Networks Headquarters
B85001 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

14-14-4B (hex) Ruijie Networks Co.,LTD
14144B (base 16) Ruijie Networks Co.,LTD
19-22# Building,Star-net Science Plaza,Juyuanzhou,
FUZHOU FUJIAN 350002
CN

00-04-A5 (hex) Barco
NV
0004A5 (base 16) Barco NV
BeneluxPark 21
Kortrijk 8500
BE

40-88-2F (hex) Extreme Networks Headquarters
40882F (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

40-18-B1 (hex) Extreme Networks Headquarters
4018B1 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

20-6C-8A (hex) Extreme Networks Headquarters
206C8A (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

88-5B-DD (hex) Extreme Networks Headquarters
885BDD (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

AC-ED-32 (hex) Extreme Networks Headquarters
ACED32 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

DC-E6-50 (hex) Extreme Networks Headquarters
DCE650 (base 16) Extreme Networks Headquarters
2121
RDU Center Drive
Morrisville NC 27560
US

24-1F-BD (hex) Extreme Networks Headquarters
241FBD (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

E4-44-E5 (hex) Extreme Networks Headquarters
E444E5 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

00-E6-0E (hex) Extreme Networks Headquarters
00E60E (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

6C-03-70 (hex) Extreme Networks Headquarters
6C0370 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560

US

78-96-A3 (hex) Extreme Networks Headquarters
7896A3 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

94-9B-2C (hex) Extreme Networks Headquarters
949B2C (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville
NC 27560
US

A4-EA-8E (hex) Extreme Networks Headquarters
A4EA8E (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

44-D9-80 (hex) EVERYBOT INC.
44D980 (base 16) EVERYBOT INC.
10th Floor of H Square B/D S, Pangyoyeok-ro 231, Bundang-gu
Seongnam-si Gyeonggi-do 13494
KR

34-85-84 (hex) Extreme Networks Headquarters
348584 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

00-16-E6 (hex) GIGA-BYTE TECHNOLOGY CO.,LTD.
0016E6 (base 16) GIGA-BYTE TECHNOLOGY CO.,LTD.
Pin-Jen City, Taoyuan
324
TW

D0-91-68 (hex) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
D09168 (base 16) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
Unit East Block22-24/F,Skyworth semiconductor design Bldg., Gaoxin Ave.4.S.,Nanshan District,Shenzhen,China
SHENZHEN GUANGDONG 518057
CN

D4-A3-8B (hex) ELE(GROUP)CO.,LTD
D4A38B

(base 16) ELE(GROUP)CO.,LTD
No.158, Chuangyuan Road, SIP, Suzhou, Jiangsu, China
suzhou jiangsu 215000
CN

10-E8-3A (hex) FIBERX DISTRIBUIDORA DE PRODUTOS DE TELECOMUNICACAO LTDA
10E83A (base 16) FIBERX DISTRIBUIDORA DE PRODUTOS DE TELECOMUNICACAO LTDA
RUA JOSE NEOLI CRUZ, 5000
PORTO BELO SANTA CATARINA 88210000
BR

54-13-CA (hex) ITEL MOBILE LIMITED
5413CA (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

48-00-20 (hex) Aruba, a Hewlett Packard Enterprise Company
480020 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

D0-DC-2C (hex) Cisco Systems, Inc
D0DC2C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

18-52-3D (hex) Xiamen Jiwu Technology CO.,Ltd
18523D (base 16) Xiamen Jiwu Technology CO.,Ltd
1st Floor,No.75
Hu'an Road, Huli District
Xiamen Fujian 361006
CN

D8-43-EA (hex) SY Electronics Ltd
D843EA (base 16) SY Electronics Ltd
7 Worrall Street
Manchester M5 4TH
GB

E0-4C-05 (hex) EverCharge
E04C05 (base 16) EverCharge
548 Market Street, 31647
San Francisco CA 94104
US

E8-C8-29 (hex) Intel Corporate
E8C829 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

F8-3C-44 (hex) SHENZHEN TRANSCHAN TECHNOLOGY LIMITED
F83C44 (base 16) SHENZHEN TRANSCHAN TECHNOLOGY LIMITED
Room 03, 23/F, Unit B Building, No 9, Shenzhen Bay Eco -Technology Park, Yuehai Street, Nanshan District, Shenzhen, China
Shenzhen 518000
CN

80-48-2C (hex) Wyze Labs Inc
80482C (base 16) Wyze Labs Inc
4030 Lake Washington Boulevard NE
Kirkland WA 98033
US

9C-89-1E (hex) FireBrick Ltd
9C891E (base 16) FireBrick Ltd
c/o Andrews & ARnold LtdEnterprise CourtDownmill Road
Bracknell
Berkshire RG12 1QS
GB

B0-4A-B4 (hex) Motorola Mobility LLC, a Lenovo Company
B04AB4 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

88-5E-BD (hex) NCKOREA Co.,Ltd.
885EBD (base 16) NCKOREA Co.,Ltd.
121, Hyeoksinsandan 7-gil, Wanggok-myeon, Naju-si, Jeollanam-do, Republic of Korea
Naju-si Jeollanam-do 58296
KR

1C-60-66 (hex) TEJAS NETWORKS LTD
1C6066 (base 16) TEJAS NETWORKS LTD
Plot 25 JP Software Park Electronics City Phase-1
Bangalore Karnataka 560100
IN

58-A2-E1 (hex) Mellanox Technologies, Inc.
58A2E1 (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085

US

B0-CF-0E (hex) Mellanox Technologies, Inc.
B0CF0E (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

C4-14-A2 (hex) Cisco Meraki
C414A2 (base 16) Cisco Meraki
500
Terry A. Francois Blvd
San Francisco 94158
US

58-68-7A (hex) Sagemcom Broadband SAS
58687A (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

20-15-DE (hex) Samsung Electronics Co.,Ltd
2015DE (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

88-09-AF (hex) Masimo Corporation
8809AF (base 16) Masimo Corporation
52 Discovery
Irvine CA 92618
US

DC-F5-1B (hex) Arcadyan Corporation
DCF51B (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

5C-7D-F3 (hex) Fiberhome Telecommunication Technologies Co.,LTD
5C7DF3 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

CC-E9-FA (hex) Samsung Electronics Co.,Ltd
CCE9FA (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong

Gumi
Gyeongbuk 730-350
KR

EC-04-82 (hex) STL Systems AG
EC0482 (base 16) STL Systems AG
Hauptstrasse 137E
Taegerwilen 8274
CH

9C-96-13 (hex) Lenovo Future Communication Technology (Chongqing) Company Limited
9C9613 (base 16) Lenovo Future Communication Technology (Chongqing) Company Limited
618 Liangjiang Avenue, Longxing Town, Yubei District, Chongqing
Chongqing Chongqing 401120
CN

D0-F4-05 (hex) Hon Hai Precision Industry Co., Ltd.
D0F405 (base 16) Hon Hai Precision Industry Co., Ltd.
GuangDongShenZhen
ShenZhen GuangDong 518109
CN

08-7B-87 (hex) Cisco Systems, Inc
087B87 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

64-66-D8 (hex) Samsung Electronics Co.,Ltd
6466D8 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

48-9A-5B (hex) Shenzhen iComm Semiconductor CO.,LTD
489A5B (base 16) Shenzhen iComm Semiconductor
CO.,LTD
Room 601,Block B ,Digital Building,Garden City
Shenzhen No.1079 Nanhai Road,Nanshan District 518067
CN

64-E7-38 (hex) Zhejiang SUPCON Technology Co., Ltd.
64E738 (base 16) Zhejiang SUPCON Technology Co., Ltd.
No.309 Liuhe Road, Binjiang District
Hangzhou Zhejiang 310053
CN

38-F6-ED (hex) EVK DI Kerschhaggl GmbH

38F6ED (base 16) EVK DI Kerschhaggl GmbH
Josef Krainer Str. 35
Graz Styria A8074
AT

00-0C-EC (hex) Safran Trusted 4D Inc.
000CEC (base 16) Safran Trusted 4D Inc.
45 Becker Road Suite A
West Henrietta NY 14586
US

58-D3-12 (hex) zte corporation
58D312 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

D8-09-7F (hex) zte corporation
D8097F (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

44-E7-61 (hex) Infinix
mobility limited
44E761 (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

E8-8D-A6 (hex) Quectel Wireless Solutions Co.,Ltd.
E88DA6 (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

3C-0A-F3 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
3C0AF3 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

6C-68-A4 (hex) Guangzhou V-Solution Telecommunication Technology Co.,Ltd.
6C68A4 (base 16) Guangzhou V-Solution Telecommunication Technology Co.,Ltd.
601,Building B2,No.162,Science Avenue,Science City,Guangzhou High-tech Industrial Development Zone,Guangdong Province,China
Guangzhou Guangdong 510663

CN

D8-2D-40
(hex) Janz - Contagem e Gestão de Fluídos S.A.
D82D40 (base 16) Janz - Contagem e Gestão de Fluídos S.A.
Av. Infante Dom Henrique, 288
Lisboa 1950-421
PT

A4-36-C7 (hex) LG Innotek
A436C7 (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

44-B5-9C (hex) Tenet Networks Private Limited
44B59C (base 16) Tenet Networks Private Limited
15 B, HIG Flats,Swarnim Vihar,Sector 82
Noida Uttar Pradesh 201304
IN

C0-7C-90 (hex) Shenzhen YOUHUA Technology Co., Ltd
C07C90 (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

84-86-87 (hex) weiyuantechnology
848687 (base 16) weiyuantechnology
Room 111, Floor 1, Building 8, No. 48, Jiubao Street, Shangcheng District
Hangzhou City 310000
CN

00-E6-3A (hex) Ruckus Wireless
00E63A (base
16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

00-39-69 (hex) Air-Weigh Incorporated
003969 (base 16) Air-Weigh Incorporated
1720 Willow Creek Circle
Eugene OR 97402
US

20-91-DF (hex) Apple, Inc.
2091DF (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

A8-9C-78 (hex) Apple, Inc.
A89C78 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

7C-61-30 (hex) Apple, Inc.
7C6130 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

80-B9-89 (hex) Apple, Inc.
80B989 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C4-52-4F (hex) Apple, Inc.
C4524F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

60-3E-5F (hex) Apple, Inc.
603E5F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

94-F9-29 (hex) Meta Platforms Technologies, LLC
94F929 (base 16) Meta
Platforms Technologies, LLC
1601 Willow Rd
Menlo Park CA 94025
US

E0-37-17 (hex) Vantiva USA LLC
E03717 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

90-58-51 (hex) Vantiva USA LLC

905851 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

08-7E-64 (hex) Vantiva USA LLC
087E64 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

10-33-BF (hex) Vantiva USA LLC
1033BF (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

6C-55-E8 (hex) Vantiva USA LLC
6C55E8 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

88-9E-68 (hex) Vantiva USA LLC
889E68 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

08-70-73 (hex) HUAWEI TECHNOLOGIES CO.,LTD
087073
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E4-DE-40 (hex) Aruba, a Hewlett Packard Enterprise Company
E4DE40 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

F8-5E-42 (hex) Vantiva USA LLC
F85E42 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

EC-93-7D (hex) Vantiva USA LLC
EC937D (base 16) Vantiva USA LLC
4855 Peachtree Industrial Blvd, Suite 20
Norcross GA 30902
US

D4-E2-CB (hex) Vantiva USA LLC
D4E2CB (base 16) Vantiva USA LLC
4855 Peachtree Industrial Blvd, Suite 20
Norcross GA 30902
US

8C-D0-8B (hex) WuXi Rigosys Technology Co.,LTD
8CD08B (base 16) WuXi Rigosys Technology Co.,LTD
China Sensor Network International Innovation Park,No.200 Linghu Road
WuXI 214135
CN

5C-22-DA (hex) Vantiva USA
LLC
5C22DA (base 16) Vantiva USA LLC
4855 Peachtree Industrial Blvd, Suite 20
Norcross GA 30902
US

00-65-1E (hex) Amcrest Technologies
00651E (base 16) Amcrest Technologies
16727 Park Row
Houston TX 77084
US

44-32-C8 (hex) Vantiva USA LLC
4432C8 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

08-95-2A (hex) Vantiva USA LLC
08952A (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

FC-52-8D (hex) Vantiva USA LLC
FC528D (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

28-BE-9B (hex) Vantiva USA LLC
28BE9B (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

D0-5A-00 (hex) Vantiva USA LLC
D05A00 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

3C-9A-77 (hex) Vantiva USA
LLC
3C9A77 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

7C-9A-54 (hex) Vantiva USA LLC
7C9A54 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

B8-C0-65 (hex) Universal Electronics, Inc.
B8C065 (base 16) Universal Electronics, Inc.
201 E Sandpointe Ave
SANTA ANA CA 927075778
US

D0-CE-C9 (hex) HAN CHANG
D0CEC9 (base 16) HAN CHANG
171, Gasan digital 1-ro, Geumcheon-gu, Seoul, Republic of Korea
Seoul Geumcheon-gu, Seoul 08503
KR

68-DA-73 (hex) IEEE Registration Authority
68DA73 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

A4-BD-7E (hex) HMD Global Oy
A4BD7E (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600

FI

FC-C2-33 (hex) ASUSTek COMPUTER INC.
FCC233 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei
Taiwan 112
TW

04-38-DC (hex) China Unicom Online Information Technology Co.,Ltd
0438DC (base 16) China Unicom Online Information Technology Co.,Ltd
133 Xidan North St, Xicheng District, Beijing
Beijing 100000
CN

DC-BD-CC (hex) Quectel Wireless Solutions Co.,Ltd.
DCBDCC (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

FC-FA-21 (hex) zte corporation
FCFA21 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

D0-7C-B2 (hex) Sigmastar Technology Ltd.
D07CB2 (base 16) Sigmastar Technology Ltd.
No. 1, HoZan Road, Tong'an District
X iamen Fujian Province 361100
CN

00-EE-01 (hex) Enablers Solucoes e Consultoria em Dispositivos
00EE01 (base 16) Enablers Solucoes e Consultoria em Dispositivos
Av. Vereador Jose Diniz2280
São Paulo São Paulo 04604-003
BR

80-F0-CF
(hex) Ruckus Wireless
80F0CF (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

68-DE-CE (hex) Fiberhome Telecommunication Technologies Co.,LTD
68DECE (base 16) Fiberhome Telecommunication Technologies Co.,LTD

No.5 DongXin Road
Wuhan Hubei 430074
CN

FC-B4-67 (hex) Espressif Inc.
FCB467 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

D8-BC-38 (hex) Espressif Inc.
D8BC38 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

38-31-5A (hex) Rinnai
38315A (base 16) Rinnai
103 International Drive
Peachtree City GA 30269
US

3C-19-CB (hex) TECNO MOBILE LIMITED
3C19CB (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong
Kong Hong Kong 999077
HK

A8-00-E3 (hex) Starkey Labs Inc.
A800E3 (base 16) Starkey Labs Inc.
6600 Washington Ave. S.
Eden Prairie MN 55344
US

B0-96-EA (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
B096EA (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

18-6A-81 (hex) Sagemcom Broadband SAS
186A81 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

64-00-9C (hex) Insulet Corporation
64009C (base 16) Insulet Corporation
100 Nagog Park
Acton MA 01720
US

60-56-99 (hex) MAGNETI MARELLI S.E. S.p.A.
605699 (base 16) MAGNETI MARELLI S.E. S.p.A.
LOT N°146, ZONE FRANCHE TANGER AUTOMOTIVE CITY
Tangier 90000
MA

A8-2C-3E (hex) Shenzhen Cultraview Digital Technology Co., Ltd
A82C3E (base 16) Shenzhen Cultraview Digital Technology Co., Ltd
F6,M6,Maqueling, High-tech park, Nanshan district
Shenzhen Guangdong 518057
CN

D0-F9-28 (hex) zte corporation
D0F928 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

38-92-2E (hex) ArrayComm
38922E (base 16) ArrayComm
10th Floor, 139 Second Tianfu StreetChengdu High-tech Zone
Chengdu CN 610041
CN

C4-7E-E0 (hex) Cisco Systems, Inc
C47EE0 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

74-3A-EF (hex) Kaon Group Co., Ltd.
743AEF (base 16) Kaon Group Co., Ltd.
884-3, Seongnam-daero, Bundang-gu
Seongnam-si Gyeonggi-do 13517
KR

24-E4-CE (hex) Kaon Group Co., Ltd.
24E4CE (base 16) Kaon Group Co., Ltd.
884-3, Seongnam-daero, Bundang-gu
Seongnam-si Gyeonggi-do 13517
KR

10-91-D1 (hex) Intel Corporate
1091D1 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim
Kedah 09000
MY

6C-4C-E2 (hex) Intel Corporate
6C4CE2 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

A8-E5-39 (hex) Nurivoice Co., Ltd
A8E539 (base 16) Nurivoice Co., Ltd
NURI Bld, 16 Sapyeong-daero
Seoul Seocho-gu 06552
KR

B0-F0-0C (hex) Dongguan Wecxw CO.,Ltd.
B0F00C (base 16) Dongguan Wecxw CO.,Ltd.
Room 2201, building 1, No. 16, Keji 4th Road, Songshanhu, Dongguan City, Guangdong Province
Dongguan Guangdong 523429
CN

A8-FB-40 (hex) Nokia Solutions and Networks GmbH & Co. KG
A8FB40 (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

1C-7C-98 (hex) NEC Platforms, Ltd.
1C7C98 (base 16) NEC Platforms, Ltd.
2-3 Kandatsukasamachi
Chiyodaku Tokyo 101-8532
JP

A0-7F-8A (hex) Sagemcom Broadband SAS
A07F8A (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison
Cedex hauts de seine 92848
FR

2C-99-75 (hex) Samsung Electronics Co.,Ltd
2C9975 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu

Suwon Gyeonggi-Do 16677
KR

A8-58-4E (hex) PK VEGA
A8584E (base 16) PK VEGA
2 Stroitelny lane, office 20
Moscow Electrostal 144001
RU

F8-54-F6 (hex) AzureWave Technology Inc.
F854F6 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

08-74-58 (hex) Fiberhome Telecommunication Technologies Co.,LTD
087458 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

C4-82-E1 (hex) Tuya Smart Inc.
C482E1 (base 16) Tuya Smart Inc.
160 Greentree Drive, Suite 101
Dover DE 19904
US

00-E0-4D (hex) INTERNET INITIATIVE JAPAN, INC
00E04D (base 16) INTERNET INITIATIVE JAPAN, INC
Iidabashi Grand Bloom 2-10-2 Fujimi
Tokyo Chiyoda-ku 102-0071
JP

68-79-DD
(hex) Omnipless Manufacturing (PTY) Ltd
6879DD (base 16) Omnipless Manufacturing (PTY) Ltd
2 WestLake Drive, WestLake
Cape Town Western Cape 7945
ZA

60-C9-AA (hex) Nokia
60C9AA (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

E0-68-EE (hex) Phyplus Microelectronics Limited
E068EE (base 16) Phyplus Microelectronics Limited

304 Building 1 No.608 Sheng Xia Road
Shanghai 200000
CN

F0-C5-58 (hex) U.D.Electronic Corp.
F0C558 (base 16) U.D.Electronic Corp.
no.13, lane 68, Neixi Road, Luzhu District
Taoyuan Taiwan 33852
TW

48-06-2B (hex) Private
48062B (base 16) Private

E8-76-40 (hex) SKY UK LIMITED
E87640 (base 16) SKY UK LIMITED
Grant Way
Isleworth Middlesex TW7 5QD
GB

74-33-57 (hex) vivo Mobile Communication Co., Ltd.
743357 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

AC-00-F9
(hex) BizLink Technology (S.E.A) Sdn. Bhd.
AC00F9 (base 16) BizLink Technology (S.E.A) Sdn. Bhd.
No.5097, Tingkat Mak Mandin 4, Kawasan Perindustrian Mak Mandin,
Butterworth Pulau Pinang 13400
MY

68-1A-7C (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
681A7C (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

80-07-94 (hex) Samsung Electronics Co.,Ltd
800794 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F4-3C-3B (hex) HUNAN FN-LINK TECHNOLOGY LIMITED
F43C3B (base 16) HUNAN FN-LINK TECHNOLOGY LIMITED
No.8, Litong Road, Liuyan Economic & Tec
Changsha HUNAN 410329

CN

74-D7-CA (hex) Panasonic Automotive Systems Co.,Ltd
74D7CA (base 16) Panasonic Automotive Systems Co.,Ltd
5652
Matsumoto City Nagano 399-8730
JP

00-18-1C (hex) VITEC
00181C
(base 16) VITEC
St Davids House, St Davids Drive
Dalgety Bay Fife KY11 9NB
GB

98-9F-1E (hex) HUAWEI TECHNOLOGIES CO.,LTD
989F1E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-47-88 (hex) HUAWEI TECHNOLOGIES CO.,LTD
944788 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

54-12-CB (hex) HUAWEI TECHNOLOGIES CO.,LTD
5412CB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

98-FB-F5 (hex) ATRALTECH
98FBF5 (base 16) ATRALTECH
Rue du pré de l'Horme
Crolles 38920
FR

30-1D-49 (hex) Firmus Technologies Pty Ltd
301D49 (base 16) Firmus Technologies Pty Ltd
23 Killafaddy Rd
St Leonards TAS 7250
AU

68-28-CF (hex) Aruba, a Hewlett Packard Enterprise
Company
6828CF (base 16) Aruba, a Hewlett Packard Enterprise Company

3333 Scott Blvd
Santa Clara CA 95054
US

40-14-82 (hex) Cisco Systems, Inc
401482 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

90-39-5F (hex) Amazon Technologies Inc.
90395F (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

D4-B6-80 (hex) Shanghai Linkyum Microeletronics Co.,Ltd
D4B680 (base 16) Shanghai Linkyum Microeletronics Co.,Ltd
Building 1, No.5500, Yuanjiang Road, Minhang District
Shanghai Shanghai 201101
CN

C8-13-37 (hex) Juniper Networks
C81337 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

AC-41-6A (hex) Amazon Technologies Inc.
AC416A (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

8C-EE-FD (hex) zte corporation
8CEEFD (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen
guangdong 518057
CN

C0-49-43 (hex) zte corporation
C04943 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

58-CD-C9 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.

58CDC9 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

BC-F4-99 (hex) Rockwell Automation
BCF499 (base 16) Rockwell Automation
1 Allen-Bradley Dr.
Mayfield Heights OH 44124-6118
US

90-3C-1D (hex) HISENSE VISUAL TECHNOLOGY CO.,LTD
903C1D (base 16) HISENSE VISUAL TECHNOLOGY CO.,LTD
Qianwangang Road 218
Qingdao Shandong 266510
CN

24-6C-84 (hex) Cisco Systems, Inc
246C84 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

90-EB-50 (hex) Cisco Systems, Inc
90EB50
(base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

60-95-32 (hex) Zebra Technologies Inc.
609532 (base 16) Zebra Technologies Inc.
ONE ZEBRA PLAZA
HOLTSVILLE NY 11742
US

D4-E9-5E (hex) Texas Instruments
D4E95E (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

10-15-C1 (hex) Zhanzuo (Beijing) Technology Co., Ltd.
1015C1 (base 16) Zhanzuo (Beijing) Technology Co., Ltd.
Room 313-2511, 3rd Floor, Shanshui Building, No. 3, Gulou East Street, Miyun District
Beijing 101500
CN

8C-F3-E7 (hex) solidotech
8CF3E7 (base 16) solidotech
No.1 Dongji Avenue, Jiangning District, Nanjing, Jiangsu Province, China
Nanjing Jiangsu Province 211153
CN

84-88-E1 (hex) Apple, Inc.
8488E1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

10-BD-3A (hex) Apple, Inc.
10BD3A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA
95014
US

18-4A-53 (hex) Apple, Inc.
184A53 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

10-9F-41 (hex) Apple, Inc.
109F41 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

70-72-FE (hex) Apple, Inc.
7072FE (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

90-A7-BF (hex) EM Microelectronic
90A7BF (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

28-EF-01 (hex) Amazon Technologies Inc.
28EF01 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

D4-52-C7 (hex) Beijing L&S Lancom Platform Tech. Co., Ltd.
D452C7 (base 16) Beijing L&S Lancom Platform Tech. Co., Ltd.
901,floor 9, jelly loft, building 28, yard 9, Huinan Road, Changping District.
Beijing 102208
CN

80-EE-25 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
80EE25 (base 16) Shenzhen Skyworth Digital Technology
CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

10-55-E4 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
1055E4 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

04-CE-09 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
04CE09 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

2C-C2-53 (hex) Apple, Inc.
2CC253 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B0-FB-15 (hex) Laird Connectivity
B0FB15 (base 16) Laird Connectivity
3F.-1, No.145, Xianzheng 9th Rd.,
Zhubei 30251
TW

80-C4-5D (hex) IPG Laser GmbH
80C45D (base 16) IPG Laser GmbH
Carl-Benz-Strasse 28
Burbach 57299
DE

68-F6-3B (hex) Amazon Technologies Inc.
68F63B (base 16) Amazon Technologies Inc.
P.O Box

8102
Reno NV 89507
US

68-85-A4 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
6885A4 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

E8-D5-2B (hex) Google, Inc.
E8D52B (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

B4-56-FA (hex) IOPSYS Software Solutions
B456FA (base 16) IOPSYS Software Solutions
Krukmakargatan 21
Stockholm Stockholm 118 51
SE

CC-3A-DF (hex) Neptune Technology Group Inc.
CC3ADF (base 16) Neptune Technology Group Inc.
1600 AL Highway 229 S
Tallassee AL 36078
US

68-EC-8A (hex) IKEA of Sweden AB
68EC8A (base 16) IKEA of Sweden AB
Box 72
Älmhult 343 81
SE

40-67-9B (hex) Shenzhen Skyworth Digital Technology CO., Ltd
40679B (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong
518057
CN

C0-68-CC (hex) Shenzhen Skyworth Digital Technology CO., Ltd
C068CC (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

24-E8-E5 (hex) Shenzhen Skyworth Digital Technology CO., Ltd

24E8E5 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

04-AB-08 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
04AB08 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

E8-F8-D0 (hex) Nokia Shanghai Bell Co., Ltd.
E8F8D0 (base 16) Nokia Shanghai Bell Co., Ltd.
No.388 Ning Qiao Road,Jin Qiao Pudong Shanghai
Shanghai 201206
CN

40-8E-2C (hex) Microsoft Corporation
408E2C (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

11-11-11 (hex) Private
111111
(base 16) Private

B0-21-6F (hex) HUAWEI TECHNOLOGIES CO.,LTD
B0216F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-DF-34 (hex) HUAWEI TECHNOLOGIES CO.,LTD
94DF34 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

74-30-AF (hex) Fiberhome Telecommunication Technologies Co.,LTD
7430AF (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

28-BE-F3 (hex) FUJIAN STAR-NET COMMUNICATION CO.,LTD
28BEF3 (base 16) FUJIAN STAR-NET COMMUNICATION CO.,LTD
19-22# Building, Star-net Science Plaza, Juyuanzhou,

FUZHOU FUJIAN 350002
CN

E0-CB-19 (hex) Nokia
E0CB19 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

84-8F-69 (hex) Dell Inc.
848F69 (base 16) Dell Inc.
One Dell Way
Round
Rock TX 78682
US

54-9F-35 (hex) Dell Inc.
549F35 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

84-5A-3E (hex) Cisco Systems, Inc
845A3E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A4-4C-C8 (hex) Dell Inc.
A44CC8 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

E4-F0-04 (hex) Dell Inc.
E4F004 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

20-04-0F (hex) Dell Inc.
20040F (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

8C-EC-4B (hex) Dell Inc.
8CEC4B (base 16) Dell Inc.

One Dell Way
Round Rock TX 78682
US

D4-BE-D9 (hex) Dell Inc.
D4BED9 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

EC-F4-BB (hex) Dell Inc.
ECF4BB (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

B8-CA-3A (hex) Dell Inc.
B8CA3A (base 16) Dell Inc.
One
Dell Way
Round Rock TX 78682
US

54-48-10 (hex) Dell Inc.
544810 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

A8-99-69 (hex) Dell Inc.
A89969 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

B8-2A-72 (hex) Dell Inc.
B82A72 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

BC-30-5B (hex) Dell Inc.
BC305B (base 16) Dell Inc.
One Dell Way, MS RR5-45
Round Rock 78682
US

00-23-AE (hex) Dell Inc.

0023AE (base 16) Dell Inc.
One Dell Way, MS RR5-45
Round Rock 78682
US

00-1D-09 (hex) Dell Inc.
001D09 (base 16) Dell Inc.
One Dell Way, MS RR5-45
Round Rock 78682
US

00-0D-56 (hex) Dell Inc.
000D56 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

14-C3-5E (hex) FibRSol Global Network Limited
14C35E (base 16) FibRSol Global Network Limited
17, Deep Vihar, Vikas Nagar, Near Durga
Mata Mandir, Uttam Nagar New Delhi
New Delhi New Delhi 110059
IN

88-08-94 (hex) Skullcandy
880894 (base 16) Skullcandy
1441 Ute blvd.
Park City 84098
US

90-2A-EE (hex) Xiaomi Communications Co Ltd
902AEE (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

D8-47-8F (hex) Microchip Technology Inc.
D8478F (base 16) Microchip Technology Inc.
2355 W. Chandler Blvd.
Chandler AZ 85224
US

40-FA-FE (hex) Motorola Mobility LLC, a Lenovo Company
40FAFE (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

20-1C-3A (hex) Nintendo Co.,Ltd
201C3A (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

24-90-38 (hex) Universal Biosensors Pty Ltd
249038 (base 16) Universal Biosensors Pty Ltd
1 Corporate Ave
Rowville
Victoria 3178
AU

F8-ED-AE (hex) MOBIWIRE MOBILES(NINGBO) CO.,LTD
F8EDAE (base 16) MOBIWIRE MOBILES(NINGBO) CO.,LTD
Buliding B,Bird Indusrtial Park No.999 Dacheng Road,Fenghua Zhejiang,China
NingBo ZheJiang 315500
CN

D8-E3-5E (hex) LG Innotek
D8E35E (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

78-68-29 (hex) eero inc.
786829 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

14-A4-17 (hex) Shenzhen Belon Technology CO.,LTD
14A417 (base 16) Shenzhen Belon Technology CO.,LTD
Tsinghua Information
Shenzhen Guangdong 518052
CN

60-48-9C (hex) YIPPEE ELECTRONICS CO.,LIMITED
60489C (base 16) YIPPEE ELECTRONICS CO.,LIMITED
19H MAXGRAND PLAZA NO.3 TAI YAU STREET SAN PO KONG KL
Kowloon 999077
CN

94-98-8F (hex) Sagemcom Broadband SAS
94988F (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison

Cedex hauts de seine 92848
FR

F0-7B-65 (hex) Sagemcom Broadband SAS
F07B65 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

3C-0C-DB (hex) UNION MAN TECHNOLOGY CO.,LTD
3C0CDB (base 16) UNION MAN TECHNOLOGY CO.,LTD
18F, HUAYANG TOWER,YANDAYI ROAD
Huizhou Guangdong 516007
CN

F4-D9-C6 (hex) UNION MAN TECHNOLOGY CO.,LTD
F4D9C6 (base 16) UNION MAN TECHNOLOGY CO.,LTD
No.5,Huitai Road,Huinan High-Tech Park,Huiao Highway
Huizhou Guangdong 516025
CN

C0-25-A5 (hex) Dell Inc.
C025A5 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

E8-B5-D0 (hex) Dell Inc.
E8B5D0 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

08-92-04 (hex) Dell Inc.
089204 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

70-B5-E8 (hex) Dell Inc.
70B5E8 (base 16) Dell Inc.
One Dell Way
Round
Rock TX 78682
US

B8-CB-29 (hex) Dell Inc.
B8CB29 (base 16) Dell Inc.

One Dell Way
Round Rock TX 78682
US

34-73-5A (hex) Dell Inc.
34735A (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

F4-02-70 (hex) Dell Inc.
F40270 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

34-48-ED (hex) Dell Inc.
3448ED (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

A8-C5-6F (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
A8C56F (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

AC-7A-94 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
AC7A94 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

04-DA-28 (hex) Chongqing Zhouhai Intelligent Technology Co., Ltd
04DA28 (base 16) Chongqing Zhouhai Intelligent
Technology Co., Ltd
3rd Floor, Building A, ICC Industrial Park, Kaicheng Second Road, Hangcheng Street, Baoan District, Shenzhen City
shenzhen 518110
CN

0C-01-4B (hex) zte corporation
0C014B (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

74-D6-E5 (hex) Huawei Device Co., Ltd.
74D6E5 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

20-F5-97 (hex) Maasiv, LLC
20F597 (base 16) Maasiv, LLC
4939 W. Ray Road, Suite 4-200
Chandler AZ 85226
US

98-8C-B3 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
988CB3 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

5C-21-67 (hex) Rockwell Automation
5C2167 (base 16) Rockwell Automation
1 Allen-Bradley Dr.
Mayfield Heights
OH 44124-6118
US

6C-8F-4E (hex) Chongqing Yipingfang Technology Co., Ltd.
6C8F4E (base 16) Chongqing Yipingfang Technology Co., Ltd.
No. 1-10, Tieshan Road, Biquan Street, Bishan District, Chongqing
ChongQing 402760
CN

34-AF-A3 (hex) Recogni Inc
34AFA3 (base 16) Recogni Inc
2590 N 1ST STSuite 320
San Jose CA 95131
US

DC-9E-AB (hex) Chongqing Yipingfang Technology Co., Ltd.
DC9EAB (base 16) Chongqing Yipingfang Technology Co., Ltd.
No. 1-10, Tieshan Road, Biquan Street, Bishan District, Chongqing
ChongQing 402760
CN

48-9E-CB (hex) Hewlett Packard Enterprise
489ECB (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville 95747
US

48-91-D5 (hex) Cisco Systems, Inc
4891D5 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E0-1F-FC (hex) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
E01FFC (base 16) Motorola (Wuhan)
Mobility Technologies Communication Co., Ltd.
No.19, Gaoxin 4th Road, Wuhan East Lake High-tech Zone, Wuhan
Wuhan Hubei 430000
CN

CC-47-40 (hex) AzureWave Technology Inc.
CC4740 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

00-14-91 (hex) Daniels Electronics Ltd. dba Codan Radio Communications
001491 (base 16) Daniels Electronics Ltd. dba Codan Radio Communications
43 Erie St
Victoria BC V8V 1P8
CA

20-0B-C5 (hex) Cisco Systems, Inc
200BC5 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

90-E9-5E (hex) Cisco Systems, Inc
90E95E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

28-57-BE (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
2857BE (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

AC-CB-51 (hex) Hangzhou
Hikvision Digital Technology Co.,Ltd.
ACCB51 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road

Hangzhou Zhejiang 310052
CN

58-50-ED (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
5850ED (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

10-12-FB (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
1012FB (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

4C-F5-DC (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
4CF5DC (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

98-8B-0A (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
988B0A (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

20-29-B9 (hex) Ikotek technology SH
Co., Ltd
2029B9 (base 16) Ikotek technology SH Co., Ltd
Building 2, Shanghai Business Park Phase III (Area B), No.1036 Tianlin Road, Minhang District, Shanghai 200233, China
Shanghai 200233
CN

80-7C-62 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
807C62 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

BC-9B-5E (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
BC9B5E (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

80-BE-AF (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.

80BEAF (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

04-03-12 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
040312 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

30-4F-75
(hex) DZS Inc.
304F75 (base 16) DZS Inc.
DASAN Tower 8F, 49 Daewangpangyo-ro644beon-gil Bundang-gu
Seongnam-si Gyeonggi-do 13493
KR

D0-96-FB (hex) DZS Inc.
D096FB (base 16) DZS Inc.
DASAN Tower 8F, 49 Daewangpangyo-ro644beon-gil Bundang-gu
Seongnam-si Gyeonggi-do 13493
KR

00-01-47 (hex) DZS Inc.
000147 (base 16) DZS Inc.
7001 Oakport Street
Oakland CA 94621
US

00-02-71 (hex) DZS Inc.
000271 (base 16) DZS Inc.
7001 Oakport Street
Oakland CA 94621
US

9C-65-FA (hex) AcSiP
9C65FA (base 16) AcSiP
3F., No. 246, Bo'ai St., Shulin Dist.,
New Taipei 23805
TW

88-25-08 (hex) Meta Platforms Technologies, LLC
882508 (base 16) Meta Platforms Technologies, LLC
1601 Willow Rd
Menlo Park CA 94025
US

18-68-CB (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
1868CB (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.469,Jianghui Road
Hangzhou
Zhejiang 310052
CN

BC-BA-C2 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
BCBAC2 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

C8-2B-6B (hex) shenzhen worldelite electronics co., LTD
C82B6B (base 16) shenzhen worldelite electronics co., LTD
Office 5 F, Xiang Yu Industrial Park, Longsheng Road, Longgang Dist
Shenzhen Guangdong 51800
CN

C4-67-8B (hex) Alphabet Capital Sdn Bhd
C4678B (base 16) Alphabet Capital Sdn Bhd
L-3A-3A, No.2, Jalan Solaris, Solaris Mont Kiara, 50480 Kuala Lumpur, Malaysia
Mont Kiara Kuala Lumpur 50480
MY

60-F0-4D (hex) Honor Device Co., Ltd.
60F04D (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District
Shenzhen Guangdong 518040
CN

5C-62-8B (hex) TP-Link Corporation Limited
5C628B (base 16) TP-Link
Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

D4-3A-2F (hex) SHENZHEN MTC CO LTD
D43A2F (base 16) SHENZHEN MTC CO LTD
5th Floor, 3rd Building, SHENZHEN MTC Industrial Park, XiaLilang Rd, Nanwan Street, Long’gang District
Shenzhen Guangdong 518100
CN

14-AB-EC (hex) Aruba, a Hewlett Packard Enterprise Company
14ABEC (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd

Santa Clara CA 95054
US

48-81-D4 (hex) Ruijie Networks Co.,LTD
4881D4 (base 16) Ruijie Networks Co.,LTD
No. 2, 7th floor, xingwangruijie, haixi hi-tech industrial park, high-tech zone, fuzhou city
Fuzhou Fujian 350002
CN

9C-84-B6 (hex) Shenzhen iComm Semiconductor CO.,LTD
9C84B6 (base 16) Shenzhen iComm Semiconductor CO.,LTD
Room 601,Block B ,Digital Building,Garden City
Shenzhen No.1079 Nanhai Road,Nanshan District 518067
CN

34-CA-81
(hex) New H3C Intelligence Terminal Co., Ltd.
34CA81 (base 16) New H3C Intelligence Terminal Co., Ltd.
Room 406-100, 1 Yichuang Street, China-Singapore Guangzhou Knowledge City, Huangpu District, Guangzhou.
Guangzhou Guangdong 510030
CN

28-0C-2D (hex) QUALVISION TECHNOLOGY CO.,LTD
280C2D (base 16) QUALVISION TECHNOLOGY CO.,LTD
2F-5F, Bldg B, No.37, Zhenxing RoadLiyuhe Industrial Park, Loucun,Gongming, shenzhen, China, 518107
China shenzhen 518107
CN

60-03-0C (hex) Shenzhen YOUHUA Technology Co., Ltd
60030C (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

18-14-AE (hex) Nokia
1814AE (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

C0-61-3D (hex) BioIntelliSense, Inc.
C0613D (base 16) BioIntelliSense, Inc.
17301 W. COLFAX AVENUE, SUITE 152
Golden CO 80401
US

04-18-D6

(hex) Ubiquiti Inc
0418D6 (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

88-67-DC (hex) HUAWEI TECHNOLOGIES CO.,LTD
8867DC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

40-41-0D (hex) HUAWEI TECHNOLOGIES CO.,LTD
40410D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

5C-8B-6B (hex) Amazon Technologies Inc.
5C8B6B (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

00-19-E2 (hex) Juniper Networks
0019E2 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

00-26-88 (hex) Juniper Networks
002688 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

84-18-88 (hex) Juniper Networks
841888 (base 16) Juniper Networks
1133
Innovation Way
Sunnyvale CA 94089
US

24-A4-3C (hex) Ubiquiti Inc
24A43C (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

44-D9-E7 (hex) Ubiquiti Inc
44D9E7 (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

D0-21-F9 (hex) Ubiquiti Inc
D021F9 (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

70-A7-41 (hex) Ubiquiti Inc
70A741 (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

0C-86-10 (hex) Juniper Networks
0C8610 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

54-4B-8C (hex) Juniper Networks
544B8C (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

B0-A8-6E (hex) Juniper Networks
B0A86E (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale
CA 94089
US

08-81-F4 (hex) Juniper Networks
0881F4 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

E4-BC-AA (hex) Xiaomi Communications Co Ltd
E4BCAA (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085

CN

54-5D-D9 (hex) EDISTEC
545DD9 (base 16) EDISTEC
Rm 1701, Gasan SKV1 Center, 171, Gasan digital 1-ro, Geumcheon-gu, Seoul
Seoul Seoul 08503
KR

40-4C-CA (hex) Espressif Inc.
404CCA (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

BC-9E-2C (hex) China Mobile Group Device Co.,Ltd.
BC9E2C (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

30-7C-5E (hex) Juniper Networks
307C5E (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

F0-1C-2D
(hex) Juniper Networks
F01C2D (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

64-64-9B (hex) Juniper Networks
64649B (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

00-90-69 (hex) Juniper Networks
009069 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

80-AC-AC (hex) Juniper Networks
80ACAC (base 16) Juniper Networks
1133 Innovation Way

Sunnyvale CA 94089
US

2C-21-31 (hex) Juniper Networks
2C2131 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

9C-CC-83 (hex) Juniper Networks
9CCC83 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

44-AA-50 (hex) Juniper Networks
44AA50 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

E8-B6-C2 (hex) Juniper Networks
E8B6C2 (base 16) Juniper Networks
1133
Innovation Way
Sunnyvale CA 94089
US

C4-09-B7 (hex) Juniper Networks
C409B7 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

74-E7-98 (hex) Juniper Networks
74E798 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

48-73-10 (hex) Juniper Networks
487310 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

E4-FC-82 (hex) Juniper Networks
E4FC82 (base 16) Juniper Networks

1133 Innovation Way
Sunnyvale CA 94089
US

B8-C2-53 (hex) Juniper Networks
B8C253 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

14-B3-A1 (hex) Juniper Networks
14B3A1 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

D4-99-6C (hex) Juniper Networks
D4996C (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

40-DE-AD (hex) Juniper Networks
40DEAD
(base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

0C-59-9C (hex) Juniper Networks
0C599C (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

04-5C-6C (hex) Juniper Networks
045C6C (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

38-14-1B (hex) Secure Letter Inc.
38141B (base 16) Secure Letter Inc.
223, Yeoksam-ro
Gangnam-gu Seoul 06224
KR

B4-61-E9 (hex) Sichuan AI-Link Technology Co., Ltd.

B461E9 (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou, Industrial Park
Mianyang Sichuan 622650
CN

64-E2-04 (hex) NTN Technical Service Corporation
64E204 (base 16) NTN Technical Service Corporation
1578 Higashi-Kaizuka
Iwata Shizuoka 438-8510
JP

2C-98-11 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
2C9811 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51
Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

90-D6-89 (hex) Huahao Fangzhou Technology Co.,Ltd
90D689 (base 16) Huahao Fangzhou Technology Co.,Ltd
No.99,Hangtian Road,Section 2,East Third Ring Road,Chenghua Distrct,Chengdu,SiChuan
Chengdu SiChuan 610051
CN

C0-8B-2A (hex) Cisco Systems, Inc
C08B2A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

2C-CA-75 (hex) Robert Bosch GmbH AnP
2CCA75 (base 16) Robert Bosch GmbH AnP
Robert Bosch Strasse 1
Ansbach 91522
DE

E0-D8-C4 (hex) Qingdao Intelligent&Precise Electronics Co.,Ltd.
E0D8C4 (base 16) Qingdao Intelligent&Precise Electronics Co.,Ltd.
No.218 Qianwangang Road
Qingdao Shangdong 266510
CN

9C-D1-D0 (hex) Guangzhou Ronsuo Electronic Technology Co.,Ltd
9CD1D0 (base 16) Guangzhou Ronsuo Electronic Technology Co.,Ltd
Address:Unit 503-505, 507, Area
E, No. 80 Lanyue Road, Science Avenue, Huangpu District, Guangzhou
Guangzhou Guangdong 510600
CN

3C-79-2B (hex) Dongguan Auklink TechnologyCo.,Ltd
3C792B (base 16) Dongguan Auklink TechnologyCo.,Ltd
401, Building 1, No. 11, Dalingshan Hupan Road
Dalingshan Town Dongguan City, Guangdong Province 523810
CN

00-0E-51 (hex) TECNA SpA
000E51 (base 16) TECNA SpA
Via Meucci, 27
Sastel San Pietro Terme Bologna 40024
IT

C0-C7-0A (hex) Ruckus Wireless
C0C70A (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

00-16-16 (hex) BROWAN COMMUNICATIONS INCORPORATION
001616 (base 16) BROWAN COMMUNICATIONS INCORPORATION
No.1 Jen-Ai Road, HsinChu Industrial Park,
HuKou Hsiang HsinChu Hsien 303
TW

5C-94-62 (hex) Shenzhen Jiuzhou Electric Co.,LTD
5C9462 (base 16) Shenzhen Jiuzhou Electric Co.,LTD
6F,Jiuzhou Electric Building,Southern No.12RD.,Hi-Tech Industrial Park,Nanshan District,
Shenzhen
Guangdong 518057
CN

CC-D8-1F (hex) Maipu Communication Technology Co.,Ltd.
CCD81F (base 16) Maipu Communication Technology Co.,Ltd.
No.16 Jiuxing Avenue, Hi-tech zone
Chengdu Sichuan 610094
CN

88-C6-E8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
88C6E8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

70-7C-E3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
707CE3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

3C-6F-9B (hex) zte corporation
3C6F9B (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

38-6F-6B (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
386F6B (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

54-11-49
(hex) vivo Mobile Communication Co., Ltd.
541149 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

90-52-BF (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
9052BF (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

88-1E-59 (hex) Onion Corporation
881E59 (base 16) Onion Corporation
895 Don Mills Road
North York Ontario M3C 1W3,
CA

28-02-2E (hex) Apple, Inc.
28022E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

FC-9C-A7 (hex) Apple, Inc.
FC9CA7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

48-E1-5C (hex) Apple, Inc.
48E15C (base 16) Apple, Inc.
1 Infinite Loop

Cupertino CA 95014
US

74-15-F5 (hex) Apple, Inc.
7415F5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

48-A9-8A (hex) Routerboard.com
48A98A (base 16) Routerboard.com
Mikrotikls SIA
Riga Riga LV1009
LV

2C-00-2A (hex) Shenzhen TINNO Mobile Technology Corp.
2C002A (base 16) Shenzhen TINNO Mobile Technology Corp.
Building, No.33, Xiandong Rd, Xili
Nanshan District, Shenzhen PRC 518053
CN

E8-88-43 (hex) Xiaomi Communications Co Ltd
E88843 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

7C-17-79 (hex) EM Microelectronic
7C1779 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

AC-FC-82 (hex) Shenzhen Sundray Technologies Company Limited
ACFC82 (base 16) Shenzhen Sundray Technologies Company Limited
5th Floor, Block A4, Nanshan ipark,NO.1001 Xue Yuan Road, Nanshan District, Shenzhen 518055, P.R. China
Shenzhen Guangdong 518057
CN

70-5A-6F (hex) IEEE
Registration Authority
705A6F (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

DC-A3-13 (hex) Shenzhen Changjin Communication Technology Co.,Ltd

DCA313 (base 16) Shenzhen Changjin Communication Technology Co.,Ltd
6th Floor, Saibo Building, Tenglong Road, Minzhi Street, Longhua District, Shenzhen
Shenzhen 518000
CN

18-26-54 (hex) Samsung Electronics Co.,Ltd
182654 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

1C-67-60 (hex) Phonesuite
1C6760 (base 16) Phonesuite
400 Liberty Park Court
Flowood 39232
US

04-32-01 (hex) Broadcom Limited
043201 (base 16) Broadcom Limited
15191 Alton Parkway
Irvine CA 92618
US

B0-4B-68 (hex) NAKAYO Inc
B04B68 (base 16) NAKAYO Inc
1-3-2, Soja-machi
Maebashi-shi Gunma 371-0853
JP

F8-6B-14 (hex) Barrot Technology Co.,LTD
F86B14 (base 16) Barrot Technology Co.,LTD
A1009,
Block A, Jia Hua Building, No.9 Shangdisanjie St, Haidian District,
beijing beijing 100000
CN

70-46-98 (hex) HUAWEI TECHNOLOGIES CO.,LTD
704698 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

78-08-4D (hex) HUAWEI TECHNOLOGIES CO.,LTD
78084D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

EC-AA-8F (hex) HUAWEI TECHNOLOGIES CO.,LTD
ECAA8F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

68-9A-21 (hex) Fiberhome Telecommunication Technologies Co.,LTD
689A21 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

38-39-6C (hex) Huawei Device Co., Ltd.
38396C (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road,
Songshan Lake Zone
Dongguan Guangdong 523808
CN

50-66-E5 (hex) Huawei Device Co., Ltd.
5066E5 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

DC-77-94 (hex) Huawei Device Co., Ltd.
DC7794 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

D8-34-1C (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
D8341C (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

00-18-7F (hex) ZODIANET
00187F (base 16) ZODIANET
23, rue des Fraisettes
PALAISEAU ESSONNE 91120
FR

CC-F8-26 (hex) Samsung Electronics Co.,Ltd
CCF826 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

70-B6-51 (hex) Eight Sleep
70B651 (base 16) Eight Sleep
212 W 35th StFloor 4
New
York NY 10123
US

90-CE-B8 (hex) Texas Instruments
90CEB8 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

B4-BC-7C (hex) Texas Instruments
B4BC7C (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

F8-8A-5E (hex) Texas Instruments
F88A5E (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

F4-33-1C (hex) Toast, Inc.
F4331C (base 16) Toast, Inc.
401 Park Drive, Suite 801
Boston MA 02215
US

54-51-DE (hex) Cisco Systems, Inc
5451DE (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

4C-06-17 (hex) Taicang T&W Electronics
4C0617 (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

D4-9A-F6 (hex) AzureWave Technology Inc.
D49AF6 (base 16) AzureWave Technology Inc.
8F., No.94, Baozhong Rd., Xindian
Taipei 231

US

AC-81-F3 (hex) Nokia Corporation
AC81F3
(base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

60-6E-41 (hex) Barrot Technology Co.,LTD
606E41 (base 16) Barrot Technology Co.,LTD
A1009, Block A, Jia Hua Building, No.9 Shangdisanjie St, Haidian District,
beijing beijing 100000
CN

88-94-8E (hex) Max Weishaupt GmbH
88948E (base 16) Max Weishaupt GmbH
Max-Weishaupt-Str. 14
Schwendi 88475
DE

2C-18-09 (hex) Apple, Inc.
2C1809 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

FC-47-D8 (hex) Apple, Inc.
FC47D8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E4-9D-73 (hex) Edgecore Networks Corporation
E49D73 (base 16) Edgecore Networks Corporation
1 Creation RD 3.
Hsinchu 30077
TW

44-EB-2E (hex) ALPSALPINE CO,.LTD
44EB2E (base 16) ALPSALPINE CO,.LTD
nishida 6-1
kakuda-City Miyagi-Pref 981-1595
JP

04-7F-0E (hex) Barrot Technology Co.,LTD
047F0E

(base 16) Barrot Technology Co.,LTD
C7-1-1,East Area, No.2,Shangdi Xinxi Road, Haidian District
Beijing 100085
CN

D4-01-45 (hex) ATW TECHNOLOGY, INC.
D40145 (base 16) ATW TECHNOLOGY, INC.
1F, No.236 Ba'ai Street, Shulin District
New Taipei City 23845
TW

7C-64-6C (hex) LG Electronics
7C646C (base 16) LG Electronics
222 LG-ro, JINWI-MYEON
Pyeongtaek-si Gyeonggi-do 451-713
KR

48-C1-EE (hex) Honor Device Co., Ltd.
48C1EE (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District
Shenzhen Guangdong 518040
CN

94-72-0F (hex) Guangdong Nanguang Photo&Video Systems Co., Ltd.
94720F (base 16) Guangdong Nanguang Photo&Video Systems Co., Ltd.
Dongli Section, Highway 324, Chenghai
Shantou Guangdong 515829
CN

64-68-76 (hex) Edifier International
646876 (base 16) Edifier International
Suit
2207, 22nd floor, Tower II, Lippo centre, 89 Queensway
Hong Kong 070
CN

5C-64-F3 (hex) sywinkey HongKong Co,. Limited?
5C64F3 (base 16) sywinkey HongKong Co,. Limited?
RM2,3/F Ruby CDMN Building No. 480 Nathan Road KL
HongKong HongKong 999077
CN

28-E4-24 (hex) New H3C Technologies Co., Ltd
28E424 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

A8-F8-C9 (hex) NXP Semiconductor (Tianjin) LTD.
A8F8C9 (base 16) NXP Semiconductor (Tianjin) LTD.
No.15 Xinghua Avenue, Xiqing Economic Development Area
Tianjin 300385
CN

DC-B3-47 (hex) SHENZHEN FAST TECHNOLOGIES CO.,LTD
DCB347 (base 16) SHENZHEN FAST TECHNOLOGIES CO.,LTD
Room 202,Building No.5,Section 30,No.2 of Kefa Road,Nanshan District,Shenzhen,P.R.China
Shenzhen Guangdong 518057
CN

60-29-2B (hex) TP-LINK TECHNOLOGIES CO.,LTD.
60292B (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building
24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

50-80-4A (hex) Quectel Wireless Solutions Co.,Ltd.
50804A (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

A4-86-AE (hex) Quectel Wireless Solutions Co.,Ltd.
A486AE (base 16) Quectel Wireless Solutions Co.,Ltd.
No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

58-D3-91 (hex) Quectel Wireless Solutions Co.,Ltd.
58D391 (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

FC-3F-A6 (hex) eero inc.
FC3FA6 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

A0-24-F9 (hex) Chengdu InnovaTest Technology Co., Ltd
A024F9 (base 16) Chengdu InnovaTest Technology Co., Ltd
High

Tech District
Chengdu Sichuan 610000
CN

00-24-AC (hex) Hangzhou DPtech Technologies Co., Ltd.
0024AC (base 16) Hangzhou DPtech Technologies Co., Ltd.
Huarong Shidai Bld., NO.3880,Jiang-Nan Avenue, Binjiang District
Hangzhou Zhejiang 310051
CN

CC-08-7B (hex) HUAWEI TECHNOLOGIES CO.,LTD
CC087B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

60-15-21 (hex) Redarc Electronics
601521 (base 16) Redarc Electronics
23 Brodie Road (North)
Lonsdale South Australia 5160
AU

E4-26-D5 (hex) Motorola Mobility LLC, a Lenovo Company
E426D5 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

70-47-77 (hex) Ruckus Wireless
704777 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

00-06-8F (hex) Telemonitor, Inc.
00068F (base 16) Telemonitor,
Inc.
9055F Guilford Road
Columbia MD 21046
US

04-00-67 (hex) Stanley Black & Decker
040067 (base 16) Stanley Black & Decker
701 E Joppa Rd
Towson MD 21286
US

78-30-F5 (hex) TBT Inc.

7830F5 (base 16) TBT Inc.
10, Seounsandan-ro-4gil, Gyeyang-gu
Incheon 21072
KR

88-AF-7B (hex) Nanjing Powercore Tech Co.,Ltd
88AF7B (base 16) Nanjing Powercore Tech Co.,Ltd
Room 104-9, Block B, Animation Building, 11 Xinghuo Road, Jiangbei New Area, Nanjing
Nanjing 210000
CN

8C-8E-0D (hex) zte corporation
8C8E0D (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

C4-7B-80 (hex) Protempis, LLC
C47B80 (base 16) Protempis, LLC
3333 Warrenville Road, Ste 200
Lisle IL 60532-1999
US

00-09-0F (hex) Fortinet, Inc.
00090F (base 16) Fortinet, Inc.
1090 Kifer Road
Sunnyvale CA 94086
US

00-0C-E6 (hex) Fortinet,
Inc.
000CE6 (base 16) Fortinet, Inc.
899 Kifer Road
Sunnyvale CA 94086
US

9C-88-24 (hex) PetroCloud LLC
9C8824 (base 16) PetroCloud LLC
8308 Sterling St
Irving TX 75063
US

54-D7-E3 (hex) Aruba, a Hewlett Packard Enterprise Company
54D7E3 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

5C-2F-AF (hex) HomeWizard B.V.
5C2FAF (base 16) HomeWizard B.V.
Keyserswey 79
Noordwijk Zuid-Holland 2201CX
NL

E0-4B-41 (hex) Hangzhou Beilian Low Carbon Technology Co., Ltd.
E04B41 (base 16) Hangzhou Beilian Low Carbon Technology Co., Ltd.
Room 2502, area a, building 1, No. 57, jianger Road, Changhe street, Binjiang District,
HangZhou ZheJiang 310000
CN

E0-B9-8A (hex) Shenzhen Taike industrial automation company,Ltd
E0B98A (base 16) Shenzhen Taike industrial automation company,Ltd
34F,building B,Zhongzhou holding financial center,No.88
Haide 1st Road,Haizhu community,Yuehai street,Nanshan District,Shenzhen,Guangdong
Shenzhen Guangdong 518064
CN

A8-EE-6D (hex) Fine Point-High Export
A8EE6D (base 16) Fine Point-High Export
13800 Coppermine Rd
Herndon VA 20171
US

F4-E9-75 (hex) New H3C Technologies Co., Ltd
F4E975 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

D4-D4-DA (hex) Espressif Inc.
D4D4DA (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

38-64-07 (hex) Qingdao Intelligent&Precise Electronics Co.,Ltd.
386407 (base 16) Qingdao Intelligent&Precise Electronics Co.,Ltd.
No.218 Qianwangang Road
Qingdao Shangdong 266510
CN

1C-63-A5 (hex) securityplatform
1C63A5 (base 16) securityplatform
Suite # 771, 815 daewangpangyo-ro, sujeong-gu
seongnam-si gyeonggi-do 13449
KR

28-0A-EE
(hex) Renesas Electronics (Penang) Sdn. Bhd.
280AEE (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

70-AE-D5 (hex) Apple, Inc.
70AED5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

4C-22-F3 (hex) Arcadyan Corporation
4C22F3 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

20-0C-86 (hex) GX India Pvt Ltd
200C86 (base 16) GX India Pvt Ltd
595, SECTOR-8, IMT MANESAR
GURGAON Haryana 122051
IN

88-B8-6F (hex) Infinix mobility limited
88B86F (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

C4-EB-43 (hex) Sagemcom Broadband SAS
C4EB43 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

C4-EB-41 (hex) Sagemcom
Broadband SAS
C4EB41 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

74-3E-39 (hex) YUSUR Technology Co., Ltd.
743E39 (base 16) YUSUR Technology Co., Ltd.

Room 1401,building 4,yard 1, Beiqing Road No.81, Haidian District
Beijing Beijing 100086
CN

38-53-19 (hex) 34ED LLC DBA Centegix
385319 (base 16) 34ED LLC DBA Centegix
2120 Powers Ferry Rd, Suite 110
Atlanta GA 30339
US

84-60-82 (hex) Hyperloop Technologies, Inc dba Virgin Hyperloop
846082 (base 16) Hyperloop Technologies, Inc dba Virgin Hyperloop
2159 Bay Street
LOS ANGELES CA 90021
US

F0-4F-7C (hex) Amazon Technologies Inc.
F04F7C (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

4C-74-A7 (hex) IEEE Registration Authority
4C74A7 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

B8-D4-BC (hex) zte
corporation
B8D4BC (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

F0-A2-25 (hex) Amazon Technologies Inc.
F0A225 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

D4-3A-2C (hex) Google, Inc.
D43A2C (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

54-C6-FF (hex) New H3C Technologies Co., Ltd

54C6FF (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

E8-AA-CB (hex) Samsung Electronics Co.,Ltd
E8AACB (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

C4-AA-C4 (hex) Zhejiang Dahua Technology Co., Ltd.
C4AAC4 (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

C4-E5-B1 (hex) Suzhou PanKore Integrated
Circuit Technology Co. Ltd.
C4E5B1 (base 16) Suzhou PanKore Integrated Circuit Technology Co. Ltd.
Room168, Building 2, No. 128, West Shenhu Road, Suzhou Industrial Park, Suzhou City, Jiangsu Province, China
SuZhou Jiangsu 215027
CN

AC-C4-A9 (hex) Fiberhome Telecommunication Technologies Co.,LTD
ACC4A9 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

7C-94-9F (hex) Shenzhen iComm Semiconductor CO.,LTD
7C949F (base 16) Shenzhen iComm Semiconductor CO.,LTD
Room 601,Block B ,Digital Building,Garden City
Shenzhen No.1079 Nanhai Road,Nanshan District 518067
CN

3C-2C-A6 (hex) Beijing Xiaomi Electronics Co.,Ltd
3C2CA6 (base 16) Beijing Xiaomi Electronics Co.,Ltd
Xiaomi Campus
Beijing Beijing 100085
CN

34-F2-23 (hex) Fujian Newland Communication Science Technology Co.,Ltd.
34F223 (base 16) Fujian Newland Communication Science Technology Co.,Ltd.
F5,
Hongzhuo Bldg., 1, Rujiangxi Rd., Fuzhou, Fujian, China
Fuzhou Fujian 350015
CN

94-D8-6B (hex) nass magnet Hungária Kft.
94D86B (base 16) nass magnet Hungária Kft.
Henger u.2
Veszprém 8200
HU

38-A9-EA (hex) HK DAPU ELECTRONIC TECHNOLOGY CO., LIMITED
38A9EA (base 16) HK DAPU ELECTRONIC TECHNOLOGY CO., LIMITED
FLAT/RM 3A-7 12/F, KAISER CENTRE, NO.18 CENTRE STREET, SAI YING PUN, HK
HONGKONG 000000
HK

24-E5-0F (hex) Google, Inc.
24E50F (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

E4-8E-10 (hex) CIG SHANGHAI CO LTD
E48E10 (base 16) CIG SHANGHAI CO LTD
5th Floor, Building 8 No 2388 Chenhang Road
SHANGHAI 201114
CN

64-DB-F7 (hex) Nokia Shanghai Bell Co., Ltd.
64DBF7 (base 16) Nokia Shanghai Bell Co., Ltd.
No.388 Ning Qiao Road,Jin Qiao Pudong Shanghai
Shanghai 201206
CN

3C-A2-C3 (hex) vivo Mobile Communication Co., Ltd.
3CA2C3
(base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

14-61-A4 (hex) Honor Device Co., Ltd.
1461A4 (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District
Shenzhen Guangdong 518040
CN

D0-96-86 (hex) IEEE Registration Authority
D09686 (base 16) IEEE Registration Authority
445 Hoes Lane

Piscataway NJ 08554
US

E8-EF-22 (hex) Siemens Numerical Control Ltd., Nanjing
E8EF22 (base 16) Siemens Numerical Control Ltd., Nanjing
18 Runhuai Road, Lishui Zone
Nanjing 211200
CN

78-6C-84 (hex) Amazon Technologies Inc.
786C84 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

94-BE-09 (hex) China Mobile Group Device Co.,Ltd.
94BE09 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing
100053
CN

E0-75-26 (hex) China Dragon Technology Limited
E07526 (base 16) China Dragon Technology Limited
B4 Bldg.Haoshan 1st Industry Park,
Shenzhen Guangdong 518104
CN

5C-47-5E (hex) Ring LLC
5C475E (base 16) Ring LLC
1523 26th St
Santa Monica CA 90404
US

54-10-2E (hex) HUAWEI TECHNOLOGIES CO.,LTD
54102E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-D5-4D (hex) HUAWEI TECHNOLOGIES CO.,LTD
94D54D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C0-91-B9 (hex) Amazon Technologies Inc.
C091B9 (base 16) Amazon Technologies Inc.

P.O Box 8102
Reno NV 89507
US

70-28-04 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
702804 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue,
Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

BC-D0-EB (hex) New H3C Technologies Co., Ltd
BCD0EB (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

60-58-01 (hex) Shandong ZTop Microelectronics Co., Ltd.
605801 (base 16) Shandong ZTop Microelectronics Co., Ltd.
2-1105A5, Jinqiao international, No. 2277, 2nd Ring Road East, Hongjialou Street, Licheng District, Jinan, Shandong Province
Jinan 250000
CN

D8-63-0D (hex) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
D8630D (base 16) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
No.19, Gaoxin 4th Road, Wuhan East Lake High-tech Zone, Wuhan
Wuhan Hubei 430000
CN

9C-63-5B (hex) zte corporation
9C635B (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

F8-07-5D (hex) Huawei
Device Co., Ltd.
F8075D (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

98-22-6E (hex) Amazon Technologies Inc.
98226E (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

F8-A4-FB (hex) Nanjing Decowell Automation Co.,LTD
F8A4FB (base 16) Nanjing Decowell Automation Co.,LTD
Building 3, Zifeng Research and Innovation Park phase II, Qiaolin Street, Pukou District
Nanjing Jiangsu 211806
CN

24-F0-D3 (hex) Samsung Electronics Co.,Ltd
24F0D3 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

58-20-71 (hex) Samsung Electronics Co.,Ltd
582071 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

14-DC-51 (hex) Xiamen Cheerzing IOT Technology Co.,Ltd.
14DC51 (base 16) Xiamen Cheerzing IOT Technology Co.,Ltd.
Unit 702 7/F,No.165 East Tapu Road,Siming
District
Xiamen FuJian 361002
CN

04-33-1F (hex) Huawei Device Co., Ltd.
04331F (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

F8-9B-6E (hex) Nokia Solutions and Networks GmbH & Co. KG
F89B6E (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

E0-C2-64 (hex) Intel Corporate
E0C264 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

24-DC-0F (hex) Phytium Technology Co.,Ltd.
24DC0F (base 16) Phytium Technology Co.,Ltd.
Building5,XinAn Business Square,Haiyuan Middle Road Binhai New District,
Tianjin 300450

CN

68-49-92 (hex) Cisco Meraki
684992 (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco 94158
US

D4-BA-BA (hex) IEEE Registration Authority
D4BABA (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway
NJ 08554
US

9C-D8-E3 (hex) Wuhan Huazhong Numerical Control Co., Ltd
9CD8E3 (base 16) Wuhan Huazhong Numerical Control Co., Ltd
Wuhan Huazhong Numerical Control Co.?Ltd
Wuhan Hubei 430000
CN

60-C7-BE (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
60C7BE (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

04-04-B8 (hex) China Hualu Panasonic AVC Networks Co., LTD.
0404B8 (base 16) China Hualu Panasonic AVC Networks Co., LTD.
No.1 Hua Road,Qixianling,High Technology Zone,Dalian,Liaoning,China
Dalian LiaoNing 116023
CN

40-C2-BA (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
40C2BA (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO. 25, THE 3RD Street KUNSHAN EXPORT PROCESSING ZONE
KUNSHAN SUZHOU 215300
CN

18-D6-DD (hex) HUAWEI TECHNOLOGIES CO.,LTD
18D6DD (base
16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

FC-18-03 (hex) HUAWEI TECHNOLOGIES CO.,LTD
FC1803 (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

68-96-2E (hex) HUAWEI TECHNOLOGIES CO.,LTD
68962E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

CC-3D-D1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
CC3DD1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

54-C4-5B (hex) Arcadyan Corporation
54C45B (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

80-BC-37 (hex) Ruckus Wireless
80BC37 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

E0-01-A6 (hex) Edgecore
Networks Corporation
E001A6 (base 16) Edgecore Networks Corporation
1 Creation RD 3.
Hsinchu 30077
TW

20-36-26 (hex) TP-Link Corporation Limited
203626 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

C0-51-5C (hex) zte corporation
C0515C (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

7C-2F-80 (hex) Gigaset Communications GmbH

7C2F80 (base 16) Gigaset Communications GmbH
SCM PE 2
Bocholt 46395
DE

2C-F2-A5 (hex) Sagemcom Broadband SAS
2CF2A5 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

4C-FC-22 (hex) SHANGHAI HI-TECH CONTROL SYSTEM CO.,LTD.
4CFC22 (base 16) SHANGHAI HI-TECH CONTROL SYSTEM CO.,LTD.
XinJun Ring Road 777, Caohejing Pujiang Hi-Tech Park, Minhang
District
Shanghai Shanghai 201114
CN

94-3C-96 (hex) Sagemcom Broadband SAS
943C96 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

30-B0-EA (hex) Shenzhen Chuangxin Internet Communication Technology Co., Ltd
30B0EA (base 16) Shenzhen Chuangxin Internet Communication Technology Co., Ltd
608, building r2-b, Gaoxin industrial village, No. 020, Gaoxin South 7th Road, Gaoxin community, Yuehai street, Nanshan District,
ShenZhen GuangDong 518000
CN

7C-DC-CC (hex) BEIJING STARBLAZE TECHNOLOGY CO.,LTD
7CDCCC (base 16) BEIJING STARBLAZE TECHNOLOGY CO.,LTD
Unit 907, Building 4, Building 2, No. 9 Fenghao East Road, Haidian District, Beijing
Beijing 100000
CN

34-47-9A (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
34479A (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

A4-1C-B4
(hex) DFI Inc
A41CB4 (base 16) DFI Inc
No.157, Shanying Rd., Gueishan Dist., Taoyuan City 333424, Taiwan (R.O.C.)
Taoyuan City 333424

TW

40-1A-58 (hex) Wistron Neweb Corporation
401A58 (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

3C-02-68 (hex) Infinera, Inc.
3C0268 (base 16) Infinera, Inc.
169 Java Drive
Sunnyvale CA 94089
US

74-08-DE (hex) Fujian Landi Commercial Technology Co., Ltd.
7408DE (base 16) Fujian Landi Commercial Technology Co., Ltd.
Building 3A, Block A, Fuzhou Software Park, No.89 Software Road, Gulou District
Fuzhou Fujian 350008
CN

10-FC-33 (hex) Huawei Device Co., Ltd.
10FC33 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

B0-81-01 (hex) Honor Device Co., Ltd.
B08101 (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building
6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District
Shenzhen Guangdong 518040
CN

48-5D-ED (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
485DED (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

5C-FC-6E (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
5CFC6E (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

70-B7-E4 (hex) Broadcom Limited
70B7E4 (base 16) Broadcom Limited
15191 Alton Parkway

Irvine CA 92618
US

14-23-F2 (hex) Broadcom Limited
1423F2 (base 16) Broadcom Limited
15191 Alton Parkway
Irvine CA 92618
US

94-AD-23 (hex) Apple, Inc.
94AD23 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

20-A5-CB (hex) Apple, Inc.
20A5CB
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F4-21-CA (hex) Apple, Inc.
F421CA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

BC-89-A7 (hex) Apple, Inc.
BC89A7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

CC-5E-F8 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
CC5EF8 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

DC-B7-AC (hex) Aruba, a Hewlett Packard Enterprise Company
DCB7AC (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

70-9C-45 (hex) HUAWEI TECHNOLOGIES CO.,LTD
709C45 (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

FC-12-63 (hex) ASKEY COMPUTER CORP
FC1263
(base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

58-30-5B (hex) Shanghai Junqian Sensing Technology Co.,LTD
58305B (base 16) Shanghai Junqian Sensing Technology Co.,LTD
Room 602,Building 1,NO.760,Xinjunhuan Road, Caohejing High-Tech Park,Minhang District,
Shanghai Shanghai 201114
CN

7C-50-DA (hex) E.J Ward
7C50DA (base 16) E.J Ward
8620 N. New Braunfels, Ste. 200N
San Antonio TX 78217
US

5C-07-58 (hex) Ufispace Co., LTD.
5C0758 (base 16) Ufispace Co., LTD.
9F., No. 81 Jhongcheng Rd., Tucheng Dist.,
New Taipei 23674
TW

A0-31-31 (hex) Procenne Digital Security
A03131 (base 16) Procenne Digital Security
Eski Buyukdere Cd. No:7/12 Maslak
Istanbul Sariyer 34398
TR

C0-71-AA (hex) ShenZhen OnMicro Electronics Co.,Ltd.
C071AA (base 16) ShenZhen OnMicro Electronics Co.,Ltd.
Room 407-408, West Building, Skyworth Semiconductor
Building, GaoXin South 4th Road, Yuehai Street, Nanshan District
Shenzhen GuangDong 518057
CN

FC-07-36 (hex) Huawei Device Co., Ltd.
FC0736 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

94-A0-7D (hex) Huawei Device Co., Ltd.
94A07D (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

14-2D-79 (hex) Fiberhome Telecommunication Technologies Co.,LTD
142D79 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

E4-EC-E8 (hex) Samsung Electronics Co.,Ltd
E4ECE8 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C8-90-8A (hex) Samsung Electronics Co.,Ltd
C8908A (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

40-33-06 (hex) Taicang T&W Electronics
403306
(base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

00-0B-F8 (hex) Infinera, Inc.
000BF8 (base 16) Infinera, Inc.
1322 Bordeaux Drive
Sunnyvale CA 94089
US

78-3E-A1 (hex) Nokia Shanghai Bell Co., Ltd.
783EA1 (base 16) Nokia Shanghai Bell Co., Ltd.
No.388 Ning Qiao Road,Jin Qiao Pudong Shanghai
Shanghai 201206
CN

84-F4-4C (hex) International Integrated Systems., Inc.
84F44C (base 16) International Integrated Systems., Inc.
6F., No.7, Sec. 2, Xianmin Blvd., Banqiao Dist.,
New Taipei City 22041
TW

68-B9-C2 (hex) Earda Technologies co Ltd
68B9C2 (base 16) Earda Technologies co Ltd
Block A,Lianfeng Creative Park, #2 Jisheng Rd., Nansha District
Guangzhou Guangdong 511455
CN

D8-E8-44 (hex) zte corporation
D8E844 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

E4-6A-35
(hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
E46A35 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

20-04-F3 (hex) Honor Device Co., Ltd.
2004F3 (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District
Shenzhen Guangdong 518040
CN

38-E7-C0 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
38E7C0 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.2,Jin-da Road,Huinan Industrial Park
Hui Zhou Guangdong 516025
CN

F0-C1-CE (hex) GoodWe Technologies CO., Ltd
F0C1CE (base 16) GoodWe Technologies CO., Ltd
No.90 Zijin Rd.,New District,Suzhou,215011,China
Suzhou JiangSu 215011
CN

90-6A-EB (hex) Microsoft Corporation
906AEB (base 16) Microsoft Corporation
One Microsoft Way
REDMOND
WA 98052
US

C4-EB-39 (hex) Sagemcom Broadband SAS
C4EB39 (base 16) Sagemcom Broadband SAS

250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

00-52-C8 (hex) Made Studio Design Ltd.
0052C8 (base 16) Made Studio Design Ltd.
10F., No. 169, Sec. 4, Zhongxiao E. Rd., Da-an Dist.
Taipei City 10690
TW

EC-C0-7A (hex) Laird Connectivity
ECC07A (base 16) Laird Connectivity
3F.-1, No.145, Xianzheng 9th Rd.,
Zhubei 30251
TW

C8-1E-C2 (hex) ITEL MOBILE LIMITED
C81EC2 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

58-2B-0A (hex) Texas Instruments
582B0A (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

08-9D-F4 (hex) Intel Corporate
089DF4 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

DC-46-28 (hex) Intel
Corporate
DC4628 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

0C-91-92 (hex) Intel Corporate
0C9192 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

48-AD-9A (hex) Intel Corporate

48AD9A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

58-9A-3E (hex) Amazon Technologies Inc.
589A3E (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

E8-38-A0 (hex) Vizio, Inc
E838A0 (base 16) Vizio, Inc
39 Tesla
Irvine CA 92618
US

68-65-B7 (hex) Zhishang Chuanglian Technology Co., Ltd
6865B7 (base 16) Zhishang Chuanglian Technology Co., Ltd
2 / F, building F, hongfengtai Science Park, Jinyuan Road, Henggang street, Longgang District,
Shenzhen 518000
CN

9C-05-91 (hex) Mellanox Technologies, Inc.
9C0591 (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway,
Suite 100
Sunnyvale CA 94085
US

68-83-CB (hex) Apple, Inc.
6883CB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

88-B8-63 (hex) HISENSE VISUAL TECHNOLOGY CO.,LTD
88B863 (base 16) HISENSE VISUAL TECHNOLOGY CO.,LTD
Qianwangang Road 218
Qingdao Shandong 266510
CN

1C-46-D1 (hex) SKY UK LIMITED
1C46D1 (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

00-3F-10 (hex) Shenzhen GainStrong Technology Co., Ltd.
003F10 (base 16) Shenzhen GainStrong Technology Co., Ltd.
4/F, Building B, Hengmingzhu Industrial Park, Qian Jin Road 2, Baoan District
Shenzhen Guangdong 518126
CN

88-22-B2 (hex) Chipsea Technologies (Shenzhen) Corp.
8822B2 (base 16) Chipsea Technologies (Shenzhen) Corp.
3 / F, Block A, Building 2, Shenzhen Bay Innovation Technology Center, No.3156 keyuan South Road, Yuehai Street, Nanshan District, Shenzhen
Shenzhen Guangdong 518000
CN

48-02-AF
(hex) Telit Communication s.p.a
4802AF (base 16) Telit Communication s.p.a
Via stazione di prosecco 5B
SGONICO Trieste 34010
IT

FC-C7-37 (hex) Shaanxi Gangsion Electronic Technology Co., Ltd
FCC737 (base 16) Shaanxi Gangsion Electronic Technology Co., Ltd
Room 12302, building 1, Greenland territorial sea, No. 6, Jinye Road, high tech Zone, Xi'an, Shaanxi
xi'an Shaanxi 710076
CN

94-28-6F (hex) zte corporation
94286F (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

40-0E-F3 (hex) zte corporation
400EF3 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

74-3A-F4 (hex) Intel Corporate
743AF4 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

68-7A-64 (hex) Intel Corporate
687A64 (base 16) Intel Corporate
Lot 8,

Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

40-5E-F6 (hex) Samsung Electronics Co.,Ltd
405EF6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

94-52-44 (hex) Samsung Electronics Co.,Ltd
945244 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

9C-2E-7A (hex) Samsung Electronics Co.,Ltd
9C2E7A (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

7C-63-05 (hex) Amazon Technologies Inc.
7C6305 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

D8-7E-6F (hex) CASCINATION AG
D87E6F (base 16) CASCINATION AG
Steigerhubelstrasse 3
Bern Bern 3008
CH

04-4F-7A (hex) China Mobile Group Device Co.,Ltd.
044F7A (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

E4-B5-55 (hex) Huawei Device Co.,
Ltd.
E4B555 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

28-77-B1 (hex) Tri plus grupa d.o.o.

2877B1 (base 16) Tri plus grupa d.o.o.
Banjavciceva 11
Zagreb Zagreb 10000
HR

54-31-D4 (hex) TGW Mechanics GmbH
5431D4 (base 16) TGW Mechanics GmbH
Collmannstraße 2
Wels 4600
AT

E0-16-B1 (hex) Advanced Design Technology co.,ltd.
E016B1 (base 16) Advanced Design Technology co.,ltd.
1-1-3 Kotobukicho#10F Mitsukikotobukichobiru
Fucyu-city Tokyo 1830056
JP

AC-60-6F (hex) Nokia Shanghai Bell Co., Ltd.
AC606F (base 16) Nokia Shanghai Bell Co., Ltd.
No.388 Ning Qiao Road,Jin Qiao Pudong Shanghai
Shanghai 201206
CN

BC-03-58 (hex) Intel Corporate
BC0358 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B4-46-6B (hex) REALTIMEID AS
B4466B (base 16) REALTIMEID AS
Busk Bruns
veg 1 , 7760 Snåsa (Norway)
Snåsa 7760
NO

C0-69-11 (hex) Arista Networks
C06911 (base 16) Arista Networks
5453 Great America Parkway
Santa Clara CA 95054
US

94-01-AC (hex) Wuhan Qianyang Iotian Technology Co., Ltd
9401AC (base 16) Wuhan Qianyang Iotian Technology Co., Ltd
Unit 1301, Building B4, Wuhan future science and Technology City, Gaoxin Avenue, Wuhan East Lake New-Technology Development Zone
Wuhan Hubei 430206
CN

2C-93-FB (hex) Sercomm France Sarl
2C93FB (base 16) Sercomm France Sarl
2/4 Rue Maurice Hartmann 92370 Issy Les Moulineaux France
Moulineaux 92370
FR

78-44-FD (hex) TP-LINK TECHNOLOGIES CO.,LTD.
7844FD (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

58-C5-7E (hex) Fiberhome Telecommunication Technologies Co.,LTD
58C57E (base 16) Fiberhome
Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

4C-31-2D (hex) Sichuan AI-Link Technology Co., Ltd.
4C312D (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou, Industrial Park
Mianyang Sichuan 622650
CN

C0-4E-30 (hex) Espressif Inc.
C04E30 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

AC-15-A2 (hex) TP-Link Corporation Limited
AC15A2 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

24-18-C0 (hex) E. Wehrle GmbH
2418C0 (base 16) E. Wehrle GmbH
Obertalstraße 8
78120 Furtwangen Baden-Württemberg 78120
DE

00-21-D0 (hex) Global Display Solutions Spa
0021D0 (base 16) Global Display Solutions Spa
Via Tezze, 20/A
Cornedo Vicentino Vicenza 36073

IT

D4-E2-2F (hex) Roku, Inc
D4E22F (base 16) Roku,
Inc
1155 Coleman Ave
San Jose CA 95110
US

B8-B4-09 (hex) Samsung Electronics Co.,Ltd
B8B409 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

C4-3C-B0 (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
C43CB0 (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268? Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

AC-DF-9F (hex) Arcadyan Corporation
ACDF9F (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

B8-59-C8 (hex) 70mai Co.,Ltd.
B859C8 (base 16) 70mai Co.,Ltd.
Room 2220, building 2, No. 588, Zixing road
Shanghai MinHang District 201100
CN

14-5B-B9 (hex) ConMet
145BB9 (base 16) ConMet
5701 SE Columbia Way
Vancouver WA 98661
US

C8-24-96 (hex) Jiangsu Yinhe Electronics Co.,Ltd.
C82496 (base 16) Jiangsu Yinhe Electronics Co.,Ltd.
No.188
Nanhuan Road, TangQiao Town
Zhangjiagang Jiangsu 215611
CN

A8-E2-07 (hex) GOIP Global Services Pvt. Ltd.
A8E207 (base 16) GOIP Global Services Pvt. Ltd.

H68, Sector 63, Noida 201301
Noida Uttar Pradesh 201301
IN

E0-F6-78 (hex) Fiberhome Telecommunication Technologies Co.,LTD
E0F678 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

28-F7-D6 (hex) Fiberhome Telecommunication Technologies Co.,LTD
28F7D6 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

40-22-30 (hex) Shenzhen SuperElectron Technology Co.,Ltd.
402230 (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

08-30-CE (hex) Fiberhome Telecommunication Technologies Co.,LTD
0830CE (base
16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

14-13-0B (hex) Garmin International
14130B (base 16) Garmin International
1200 E. 151st St
Olathe KS 66062
US

90-23-5B (hex) Amazon Technologies Inc.
90235B (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

1C-BC-EC (hex) silex technology, Inc.
1CBCEC (base 16) silex technology, Inc.
2-3-1 Hikaridai, Seika-cho, Souraku-gun
Kyoto 619-0237
JP

34-CF-6C (hex) Hangzhou Taili wireless communication equipment Co.,Ltd

34CF6C (base 16) Hangzhou Taili wireless communication equipment Co.,Ltd
Room 1901, No.258, Zhonghe Middle Road, Shangcheng District, Hangzhou
Hangzhou Zhejiang 310003
CN

48-9B-E0 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
489BE0 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District,
Chongqing.
Chongqing China 401120
CN

5C-FA-25 (hex) Sagemcom Broadband SAS
5CFA25 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

F8-CD-C8 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
F8CDC8 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

64-D8-14 (hex) Cisco Systems, Inc
64D814 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

7C-11-CD (hex) QianTang Technology
7C11CD (base 16) QianTang Technology
36 Landmark Palace
Beijing Beijing 100125

44-7F-77 (hex) Connected Home
447F77 (base 16) Connected Home
19-22, Rathbone Place
London W1T 1HY
GB

74-97-79 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
749779 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51
Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

B0-28-5B (hex) JUHUA Technology Inc.
B0285B (base 16) JUHUA Technology Inc.
No.8,Yanbao Block,Hutian Road,Pingdi Street,Longgang District
Shenzhen City Guangdong Province 518117
CN

40-3B-7B (hex) Huawei Device Co., Ltd.
403B7B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

90-CD-1F (hex) Quectel Wireless Solutions Co.,Ltd.
90CD1F (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

F0-B6-61 (hex) eero inc.
F0B661 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

04-25-F0 (hex) Nokia
0425F0 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

48-57-D2 (hex) Broadcom Limited
4857D2 (base 16) Broadcom
Limited
15191 Alton Parkway
Irvine CA 92618
US

9C-21-83 (hex) Broadcom Limited
9C2183 (base 16) Broadcom Limited
15191 Alton Parkway
Irvine CA 92618
US

C8-EB-EC (hex) Shenzhen YOUHUA Technology Co., Ltd
C8EBEC (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055

CN

04-7C-16 (hex) Micro-Star INTL CO., LTD.
047C16 (base 16) Micro-Star INTL CO., LTD.
No.69, Lide St.,
New Taipei City Taiwan 235
TW

00-17-94 (hex) Cisco Systems, Inc
001794 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

D8-34-EE (hex) SHURE INCORPORATED
D834EE (base 16) SHURE INCORPORATED
5800 W. TOUHY AVE.
NILES IL 60714
US

94-C5-A6 (hex) ITEL MOBILE LIMITED
94C5A6 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7
KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

E0-6A-05 (hex) Shenzhen YOUHUA Technology Co., Ltd
E06A05 (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

40-42-44 (hex) Cisco Systems, Inc
404244 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

04-B6-BE (hex) CIG SHANGHAI CO LTD
04B6BE (base 16) CIG SHANGHAI CO LTD
5th Floor, Building 8 No 2388 Chenhang Road
SHANGHAI 201114
CN

E0-D7-38 (hex) WireStar Networks
E0D738 (base 16) WireStar Networks
PO Box 10966

College Station TX 77842
US

FC-B9-7E (hex) GE Appliances
FCB97E (base 16) GE Appliances
4000 Buechel Bank Road
Louisville KY 40225
US

30-E8-E4 (hex) Qorvo International Pte. Ltd.
30E8E4 (base 16) Qorvo International Pte. Ltd.
1 Changi Business
Park Avenue 1
#04-01 486058
SG

5C-E9-1E (hex) Apple, Inc.
5CE91E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

88-03-4C (hex) WEIFANG GOERTEK ELECTRONICS CO.,LTD
88034C (base 16) WEIFANG GOERTEK ELECTRONICS CO.,LTD
Gaoxin 2 Road, Free Trade Zone,Weifang,Shandong,261205,P.R.China
Weifang Shandong 261205
CN

48-DC-9D (hex) Grandprint(Beijing) Technology Co., LTD.
48DC9D (base 16) Grandprint(Beijing) Technology Co., LTD.
Room 259, 2 / F, Building 5, 8 Dongbeiwang West Road, Haidian District,
Beijing 100089
CN

64-FD-96 (hex) Sagemcom Broadband SAS
64FD96 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

64-98-9E (hex) TRINNOV AUDIO
64989E (base 16) TRINNOV AUDIO
5 rue Edmond Michelet
NEUILLY PLAISANCE Ile-de-France 93360
FR

F4-CE-46 (hex) Hewlett Packard
F4CE46 (base 16) Hewlett Packard

11445
Compaq Center Drive
Houston 77070
US

BC-C7-46 (hex) Hon Hai Precision IND.CO.,LTD
BCC746 (base 16) Hon Hai Precision IND.CO.,LTD
No. 66 Chung Shan Road TU-Cheng Industrial district TAIPEI TAIWAN
TAIPEI TAIWAN 33859
CN

7C-EC-B1 (hex) Apple, Inc.
7CECB1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

8C-76-3F (hex) ARRIS Group, Inc.
8C763F (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

28-12-93 (hex) Honor Device Co., Ltd.
281293 (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District
Shenzhen Guangdong 518040
CN

C0-A9-38 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C0A938 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

9C-BF-CD (hex) HUAWEI TECHNOLOGIES CO.,LTD
9CBFCD
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B8-9F-CC (hex) HUAWEI TECHNOLOGIES CO.,LTD
B89FCC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

34-25-BE (hex) Amazon Technologies Inc.
3425BE (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

9C-E0-41 (hex) Nokia
9CE041 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

78-34-86 (hex) Nokia
783486 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

F0-D4-15 (hex) Intel Corporate
F0D415 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D4-D8-53 (hex) Intel Corporate
D4D853 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

64-31-72 (hex) ZHEJIANG HISING TECHNOLOGY CO.,LTD
643172
(base 16) ZHEJIANG HISING TECHNOLOGY CO.,LTD
Room 201 and 202,Building 5,328 Pingjiang Road,Yuecheng District,Shaoxing
Shaoxing Zhejiang 312000
CN

D0-FC-D0 (hex) HUMAX Co., Ltd.
D0FCD0 (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

20-FA-DB (hex) Huahao Kunpeng Technology (chengDu) Co.,Ltd.
20FADB (base 16) Huahao Kunpeng Technology (chengDu) Co.,Ltd.
No.99, Hangtian Road, Section 2, East Third Ring Road,Chenghua District, Chengdu
Chengdu 610051

CN

0C-8B-95 (hex) Espressif Inc.
0C8B95 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

DC-BE-49 (hex) ITEL MOBILE LIMITED
DCBE49 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

9C-95-61 (hex) Hui Zhou Gaoshengda Technology
Co.,LTD
9C9561 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

C0-ED-E5 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
C0EDE5 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

10-A5-62 (hex) Iton Technology Corp.
10A562 (base 16) Iton Technology Corp.
Room 1302, Block A, Building 4, Tianan Cyber Park, Huangge Road,Longgang District
Shenzhen Guangdong 518116
CN

D4-A3-EB (hex) Shenzhen iComm Semiconductor CO.,LTD
D4A3EB (base 16) Shenzhen iComm Semiconductor CO.,LTD
Room 601,Block B ,Digital Building,Garden City
Shenzhen No.1079 Nanhai Road,Nanshan District 518067
CN

04-63-D0 (hex) Huawei Device Co., Ltd.
0463D0 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

14-44-8F
(hex) Edgecore Networks Corporation
14448F (base 16) Edgecore Networks Corporation

1 Creation RD 3.
Hsinchu 30077
TW

9C-4F-5F (hex) Google, Inc.
9C4F5F (base 16) Google, Inc.
15 rue Castel
Fontenay-sous-Bois 94120
FR

78-15-2D (hex) UNION CHIP TECHNOLOGY LIMITED
78152D (base 16) UNION CHIP TECHNOLOGY LIMITED
5th Floor, Building A1, Hangcheng Jinchi Industrial Park, 8TH North Road, Hangcheng Street, Bao 'an District, Shenzhen
shenzhen 518000
CN

38-AB-41 (hex) Texas Instruments
38AB41 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

CC-47-92 (hex) ASIX Electronics Corporation
CC4792 (base 16) ASIX Electronics Corporation
4F, No. 8, Hsin Ann Road, Hsinchu Science Park
Hsinchu 30078
TW

E0-46-EE (hex) NETGEAR
E046EE (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

58-76-AC (hex) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
5876AC
(base 16) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
NO.8 Tangzhuang Road,Suzhou Industrial Park,Su ZhouCity,JiangSu Province,China
Suzhou 215021
CN

50-DC-D0 (hex) Observint Technologies, Inc.
50DCD0 (base 16) Observint Technologies, Inc.
11000 N Mopac Expressway Suite 300
Austin TX 78759
US

A0-29-42 (hex) Intel Corporate
A02942 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

10-71-B3 (hex) Zyxel Communications Corporation
1071B3 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

18-69-D4 (hex) Samsung Electronics Co.,Ltd
1869D4 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

68-5E-1C (hex) Texas Instruments
685E1C (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

D4-F0-EA (hex) Beijing Xiaomi Mobile Software Co., Ltd
D4F0EA
(base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

5C-24-E2 (hex) Suzhou Denbom Electronic S&T Co., Ltd
5C24E2 (base 16) Suzhou Denbom Electronic S&T Co., Ltd
3F,Building 2, No.415,Changyang Street
Suzhou Jiangsu 215000
CN

E0-03-6B (hex) Samsung Electronics Co.,Ltd
E0036B (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

00-A5-54 (hex) Intel Corporate
00A554 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

58-11-22 (hex) ASUSTek COMPUTER INC.
581122 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

74-69-4A (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
74694A (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan
Town, Dayi County
Chengdu Sichuan 611330
CN

00-B0-EE (hex) Ajile Systems, Inc.
00B0EE (base 16) Ajile Systems, Inc.
920 Saratoga Ave.
San Jose CA 95129
US

B8-7E-E5 (hex) Intelbras
B87EE5 (base 16) Intelbras
BR 101, km 210, S/N°
São José Santa Catarina 88104800
BR

A8-54-A2 (hex) Heimgard Technologies AS
A854A2 (base 16) Heimgard Technologies AS
Dronning Mauds gate 15
Oslo Norway 0250
NO

60-BE-B4 (hex) S-Bluetech co., limited
60BEB4 (base 16) S-Bluetech co., limited
Room 202, Block A, Donghai Wang Mansion, 369 Bulonglu
Shenzhen Guangdong 518000
CN

90-DF-7D (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
90DF7D (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

0C-86-29 (hex) IEEE Registration Authority
0C8629 (base 16) IEEE Registration
Authority
445 Hoes Lane

Piscataway NJ 08554
US

50-C1-F0 (hex) NXP Semiconductor (Tianjin) LTD.
50C1F0 (base 16) NXP Semiconductor (Tianjin) LTD.
No.15 Xinghua Avenue, Xiqing Economic Development Area
Tianjin 300385
CN

F4-84-8D (hex) TP-LINK TECHNOLOGIES CO.,LTD.
F4848D (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

94-AB-FE (hex) Nokia
94ABFE (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

BC-1D-89 (hex) Motorola Mobility LLC, a Lenovo Company
BC1D89 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

98-A9-2D (hex) New H3C Technologies Co., Ltd
98A92D (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

30-F7-0D (hex) Cisco
Systems, Inc
30F70D (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

74-2A-8A (hex) shenzhen worldelite electronics co., LTD
742A8A (base 16) shenzhen worldelite electronics co., LTD
Office 5 F, Xiang Yu Industrial Park, Longsheng Road, Longgang Dist
Shenzhen Guangdong 51800
CN

E4-73-05 (hex) Shenzhen INVT Electric CO.,Ltd
E47305 (base 16) Shenzhen INVT Electric CO.,Ltd

INVT Guangming Technology Building,Songbai Road,Matian,Guangming District,ShenZhen,China.518106
ShenZhen Guangdong 518000
CN

B0-1B-4B (hex) Invisible Fun Studio Limited
B01B4B (base 16) Invisible Fun Studio Limited
809, Block 2, Yip On Factory Est,
Kowloon Bay 000000
HK

B4-B7-42 (hex) Amazon Technologies Inc.
B4B742 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

78-A0-3F (hex) Amazon Technologies Inc.
78A03F (base 16) Amazon Technologies Inc.
P.O Box 8102

Reno NV 89507
US

50-46-AE (hex) MERCURY CORPORATION
5046AE (base 16) MERCURY CORPORATION
90, Gajaeul-ro, Seo-gu
INCHEON 22830
KR

B0-99-D7 (hex) Samsung Electronics Co.,Ltd
B099D7 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

74-74-46 (hex) Google, Inc.
747446 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

78-20-A5 (hex) Nintendo Co.,Ltd
7820A5 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

20-78-CD (hex) Apple, Inc.

2078CD (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

30-D5-3E (hex) Apple, Inc.
30D53E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

50-23-A2 (hex) Apple, Inc.
5023A2 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

98-69-8A (hex) Apple, Inc.
98698A
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

78-FB-D8 (hex) Apple, Inc.
78FBD8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A4-C3-37 (hex) Apple, Inc.
A4C337 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B0-F1-D8 (hex) Apple, Inc.
B0F1D8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D0-88-0C (hex) Apple, Inc.
D0880C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

1C-57-DC (hex) Apple, Inc.
1C57DC (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

60-4F-5B (hex) Huawei Device Co., Ltd.
604F5B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

24-81-3B (hex) Cisco Systems, Inc
24813B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

0C-B8-E8 (hex) Renesas
Electronics (Penang) Sdn. Bhd.
0CB8E8 (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

E8-F3-75 (hex) Nokia
E8F375 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

E8-31-CD (hex) Espressif Inc.
E831CD (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

A0-69-D9 (hex) New H3C Technologies Co., Ltd
A069D9 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

20-FE-00 (hex) Amazon Technologies Inc.
20FE00 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

F4-21-AE (hex) Shanghai Xiaodu Technology Limited
F421AE (base 16) Shanghai Xiaodu Technology Limited
4th Floor Building No.1 , No.701 Naxian Road Pilot Free Trade Zone Shanghai China
Shanghai 200000
CN

F4-12-FA (hex) Espressif
Inc.
F412FA (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

B0-F2-08 (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
B0F208 (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

F0-B2-B9 (hex) Intel Corporate
F0B2B9 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

DC-99-FE (hex) Armatura LLC
DC99FE (base 16) Armatura LLC
16192 Coastal Hwy
Lewes DE 19958
US

F0-A6-54 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
F0A654 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

9C-F1-55 (hex) Nokia
9CF155 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

EC-5C-84 (hex) Murata
Manufacturing Co., Ltd.
EC5C84 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari

Nagaokakyo-shi Kyoto 617-8555
JP

C0-88-6D (hex) Securosys SA
C0886D (base 16) Securosys SA
Technopark 1
Zürich ZH 8005
CH

48-74-12 (hex) OnePlus Technology (Shenzhen) Co., Ltd
487412 (base 16) OnePlus Technology (Shenzhen) Co., Ltd
18C02, 18C03, 18C04 ,18C05,TAIRAN BUILDING,
Shenzhen Guangdong 518000
CN

14-DC-E2 (hex) THALES AVS France
14DCE2 (base 16) THALES AVS France
75-77 Av. Marcel Dassault
Mérignac 33700
FR

6C-D8-69 (hex) Guangzhou Sat Infrared Co.,LTD
6CD869 (base 16) Guangzhou Sat Infrared Co.,LTD
No.10 Dongjiang Ave. GETDD
Guangzhou Guangdong 510730
CN

C8-9B-D7 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
C89BD7 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing
China 401120
CN

28-B1-33 (hex) SHINEMAN(SHENZHEN) Tech. Cor., Ltd.
28B133 (base 16) SHINEMAN(SHENZHEN) Tech. Cor., Ltd.
BanTian
SHENZHEN GUANGDONG 518000
CN

98-5F-4F (hex) Tongfang Computer Co.,Ltd.
985F4F (base 16) Tongfang Computer Co.,Ltd.
No. 118, Chunsun East Road, Xishan Economic Development Zone (Dongting)
Wuxi Jiangsu 214101
CN

34-F8-6E (hex) Parker Hannifin Corporation
34F86E (base 16) Parker Hannifin Corporation

6035 Parkland Blvd
Cleveland OH 44124
US

0C-AE-BD (hex) Edifier International
0CAEBD (base 16) Edifier International
Suit 2207, 22nd floor, Tower II, Lippo centre, 89 Queensway
Hong Kong 070
CN

A8-E6-21 (hex) Amazon Technologies Inc.
A8E621 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

3C-CF-B4 (hex) Telink Semiconductor (Shanghai) Co., Ltd.
3CCFB4 (base 16) Telink Semiconductor (Shanghai) Co., Ltd.
No. 1500 Zuchongzhi
Rd, Building #3
Shanghai 201203
CN

04-3C-E8 (hex) Shenzhen SuperElectron Technology Co.,Ltd.
043CE8 (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

74-E6-B8 (hex) LG Electronics
74E6B8 (base 16) LG Electronics
222 LG-ro, JINWI-MYEON
Pyeongtaek-si Gyeonggi-do 451-713
KR

28-D0-F5 (hex) Ruijie Networks Co.,LTD
28D0F5 (base 16) Ruijie Networks Co.,LTD
No. 2, 7th floor, xingwangruijie, haixi hi-tech industrial park, high-tech zone, fuzhou city
Fuzhou Fujian 350002
CN

94-18-65 (hex) NETGEAR
941865 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

A8-58-7C (hex) Shoogee GmbH & Co. KG

A8587C (base 16) Shoogee GmbH & Co. KG
Alter Fischmarkt 11a
Muenster Nordrhein-Westfalen 48143
DE

38-1E-C7 (hex) Chipsea Technologies(Shenzhen)
Corp.
381EC7 (base 16) Chipsea Technologies(Shenzhen) Corp.
9F,Block A,Garden City Digital Building,No.1079 Nanhai Road,Nanshan District,Shenzhen
Shenzhen 518000
CN

90-F2-60 (hex) Shenzhen Honesty Electronics Co.,Ltd.
90F260 (base 16) Shenzhen Honesty Electronics Co.,Ltd.
5/F,Zone B,Chitat Industrial Park,West Longping Road, Longgang District,Shenzhen City
Shenzhen Guangdong 518172
CN

18-89-CF (hex) TECNO MOBILE LIMITED
1889CF (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

D0-04-B0 (hex) Samsung Electronics Co.,Ltd
D004B0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

98-B0-8B (hex) Samsung Electronics Co.,Ltd
98B08B (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

9C-25-95
(hex) Samsung Electronics Co.,Ltd
9C2595 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

04-BD-97 (hex) Cisco Systems, Inc
04BD97 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568

US

54-16-51 (hex) Ruijie Networks Co.,LTD
541651 (base 16) Ruijie Networks Co.,LTD
No. 2, 7th floor, xingwangruijie, haixi hi-tech industrial park, high-tech zone, fuzhou city
Fuzhou Fujian 350002
CN

60-BC-4C (hex) EWM Hightec Welding GmbH
60BC4C (base 16) EWM Hightec Welding GmbH
Dr.Günter-Henle-Str. 8
Mündersbach Rheinland Pfalz 56271
DE

0C-23-69 (hex) Honeywell SPS
0C2369 (base 16) Honeywell SPS
700 Visions Dr.
Skaneateles Falls NY 13153
US

AC-04-25 (hex) ball-b GmbH Co KG
AC0425 (base 16) ball-b GmbH Co KG
Saganer Strasse 14
Nuremberg Bavaria 90475
DE

A8-17-10 (hex) Bouffalo Lab (Nanjing) Co., Ltd.
A81710
(base 16) Bouffalo Lab (Nanjing) Co., Ltd.
5F, Gongxiang Space, No.100 Tuanjie Road, Nanjing, China
Nanjing Jiangsu 211800
CN

08-6A-E5 (hex) Amazon Technologies Inc.
086AE5 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

4C-E0-DB (hex) Xiaomi Communications Co Ltd
4CE0DB (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

7C-33-F9 (hex) HUAWEI TECHNOLOGIES CO.,LTD
7C33F9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park

Dongguan 523808
CN

E8-EE-CC (hex) Fantasia Trading LLC
E8EECC (base 16) Fantasia Trading LLC
5350 Ontario Mills Pkwy, Suite 100
Ontario CA 91764
US

84-16-0C (hex) Broadcom Limited
84160C (base 16) Broadcom Limited
15191 Alton Parkway
Irvine CA 92618
US

20-9B-E6 (hex) Guangzhou Shiyuan Electronic
Technology Company Limited
209BE6 (base 16) Guangzhou Shiyuan Electronic Technology Company Limited
No.6, 4th Yunpu Road, Yunpu industry District
Guangzhou Guangdong 510530
CN

70-87-A7 (hex) Murata Manufacturing Co., Ltd.
7087A7 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

48-35-2B (hex) Apple, Inc.
48352B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

4C-E6-C0 (hex) Apple, Inc.
4CE6C0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

38-88-A4 (hex) Apple, Inc.
3888A4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

44-DA-30 (hex) Apple, Inc.
44DA30 (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

A0-80-69 (hex) Intel Corporate
A08069 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

F4-38-C1 (hex) Huawei Device
Co., Ltd.
F438C1 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

28-EA-2D (hex) Apple, Inc.
28EA2D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B8-E6-0C (hex) Apple, Inc.
B8E60C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

38-F7-F1 (hex) Huawei Device Co., Ltd.
38F7F1 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

40-76-A9 (hex) Huawei Device Co., Ltd.
4076A9 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

A0-67-20 (hex) China Dragon Technology Limited
A06720 (base 16) China Dragon Technology Limited
B4 Bldg.Haoshan 1st Industry Park,
Shenzhen Guangdong 518104
CN

94-C9-B7 (hex) IEEE Registration Authority

94C9B7 (base 16) IEEE Registration Authority
445
Hoes Lane
Piscataway NJ 08554
US

20-72-A9 (hex) Beijing Xiaomi Electronics Co.,Ltd
2072A9 (base 16) Beijing Xiaomi Electronics Co.,Ltd
Xiaomi Campus
Beijing Beijing 100085
CN

1C-86-9A (hex) Samsung Electronics Co.,Ltd
1C869A (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

70-A8-D3 (hex) Intel Corporate
70A8D3 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D8-FB-D6 (hex) Amazon Technologies Inc.
D8FBD6 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

9C-47-F9 (hex) LJU Automatisierungstechnik GmbH
9C47F9 (base 16) LJU Automatisierungstechnik GmbH
Am Schlahn 1
Potsdam Brandenburg D-14476
DE

00-06-4D (hex) Sencore
00064D (base 16) Sencore
3200 Sencore Dr.
Sioux Falls SD 57107
US

D0-62-2C (hex) Xi'an Yipu Telecom Technology Co.,Ltd.
D0622C
(base 16) Xi'an Yipu Telecom Technology Co.,Ltd.
Floor 5, Block C, Huanpu Industrial Park, 211 Tiangu 8th Road
Xi 'an Shaanxi 710076
CN

E0-56-89 (hex) Lootom Telcovideo Network (Wuxi) Co Ltd
E05689 (base 16) Lootom Telcovideo Network (Wuxi) Co Ltd
Lootom Industry Park, 182# Luou East Rd
Wuxi Jiangsu 214161
CN

2C-33-58 (hex) Intel Corporate
2C3358 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

20-62-96 (hex) Shenzhen Malio Technology Co.,Ltd
206296 (base 16) Shenzhen Malio Technology Co.,Ltd
Building B1, Shenzhen digital technology park, No. 16, Gaoxin South seventh Road, high tech Zone community, Yuehai street,Nanshan District
Shenzhen Guangdong 518000
CN

8C-B0-94 (hex) Airtech I&C Co., Ltd
8CB094 (base 16) Airtech I&C Co., Ltd
33B-9L #613-9, Namchon-dong
Namdong-gu Incheon 405-846
KR

EC-64-88 (hex) Honor Device Co., Ltd.
EC6488 (base
16) Honor Device Co., Ltd.
A1701, Block AB, Building 1, Tianan Yungu Phase I, Gangtou Community, Bantian Street
Shenzhen Guangdong 518129
CN

98-BE-DC (hex) Honor Device Co., Ltd.
98BEDC (base 16) Honor Device Co., Ltd.
A1701, Block AB, Building 1, Tianan Yungu Phase I, Gangtou Community, Bantian Street
Shenzhen Guangdong 518129
CN

50-58-B0 (hex) Hunan Greatwall Computer System Co., Ltd.
5058B0 (base 16) Hunan Greatwall Computer System Co., Ltd.
Hunan GreatWall Industrial Park, Tianyi Science and Technology City, Xiangyun Middle Road, Tianyuan District
Zhuzhou Hunan 412000
CN

3C-86-9A (hex) HUAWEI TECHNOLOGIES CO.,LTD
3C869A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park

Dongguan 523808
CN

E0-6C-F6 (hex) ESSENCORE limited
E06CF6 (base 16) ESSENCORE limited
Suite 4006, 40/F Central Plaza, 18 Harbour Road, Wanchai,
Hong Kong No code
HK

78-C6-2B
(hex) FUJIAN STAR-NET COMMUNICATION CO.,LTD
78C62B (base 16) FUJIAN STAR-NET COMMUNICATION CO.,LTD
19-22# Building, Star-net Science Plaza, Juyuanzhou,
FUZHOU FUJIAN 350002
CN

D4-66-24 (hex) Cisco Systems, Inc
D46624 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A0-2B-B8 (hex) Hewlett Packard
A02BB8 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

2C-27-68 (hex) HUAWEI TECHNOLOGIES CO.,LTD
2C2768 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

54-69-90 (hex) HUAWEI TECHNOLOGIES CO.,LTD
546990 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D8-0A-60 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D80A60 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake
Technology Park
Dongguan 523808
CN

0C-C6-FD (hex) Xiaomi Communications Co Ltd

0CC6FD (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

50-DA-D6 (hex) Xiaomi Communications Co Ltd
50DAD6 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

D4-F9-8D (hex) Espressif Inc.
D4F98D (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

9C-90-19 (hex) Beyless
9C9019 (base 16) Beyless
#725,42,Changeop-ro, Sujeong-gu
Seongnam-si Gyeonggi-do 13449
KR

E4-27-61 (hex) Honor Device Co., Ltd.
E42761 (base 16) Honor Device Co., Ltd.
A1701, Block AB, Building 1, Tianan Yungu Phase I, Gangtou Community, Bantian Street
Shenzhen Guangdong 518129
CN

A0-69-74 (hex) Honor Device Co.,
Ltd.
A06974 (base 16) Honor Device Co., Ltd.
A1701, Block AB, Building 1, Tianan Yungu Phase I, Gangtou Community, Bantian Street
Shenzhen Guangdong 518129
CN

14-01-9C (hex) Ubyon Inc.
14019C (base 16) Ubyon Inc.
10080 N. Wolfe Rd. SW3-200
Cupertino 95014
US

04-34-F6 (hex) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
0434F6 (base 16) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
No.19, Gaoxin 4th Road, Wuhan East Lake High-tech Zone, Wuhan
Wuhan Hubei 430000
CN

54-69-25 (hex) PS INODIC CO., LTD.
546925 (base 16) PS INODIC CO., LTD.
#407, 4F, 25-32, LS-ro 116beon-gil, Dongan-gu
Anyang-si Gyeonggi-do 14118
KR

78-13-E0 (hex) FUJIAN STAR-NET COMMUNICATION CO.,LTD
7813E0 (base 16) FUJIAN STAR-NET COMMUNICATION CO.,LTD
19-22# Building, Star-net Science Plaza, Juyuanzhou,
FUZHOU FUJIAN 350002
CN

48-61-EE (hex) Samsung Electronics Co.,Ltd
4861EE
(base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A8-4B-4D (hex) Samsung Electronics Co.,Ltd
A84B4D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F4-F3-09 (hex) Samsung Electronics Co.,Ltd
F4F309 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

08-6F-48 (hex) Shenzhen iComm Semiconductor CO.,LTD
086F48 (base 16) Shenzhen iComm Semiconductor CO.,LTD
Room 504A,Block B,Digital Building,Gargen City,No.1079,Nanhai Road,Nanshan District,Shenzhen.
Shenzhen 518067
CN

E8-CB-ED (hex) Chipsea Technologies(Shenzhen) Corp.
E8CBED (base 16) Chipsea Technologies(Shenzhen) Corp.
9F,Block A,Garden City Digital Building,No.1079 Nanhai Road,Nanshan District,Shenzhen
Shenzhen 518000
CN

D0-78-80 (hex) Fiberhome Telecommunication Technologies Co.,LTD
D07880 (base 16) Fiberhome Telecommunication
Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074

CN

14-CB-65 (hex) Microsoft Corporation
14CB65 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

78-57-B0 (hex) GERTEC BRASIL LTDA
7857B0 (base 16) GERTEC BRASIL LTDA
Avenida Jabaquara, 3060, room 601
Sao Paulo São Paulo 04046500
BR

34-08-E1 (hex) Texas Instruments
3408E1 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

18-B9-6E (hex) Dongguan Liesheng Electronic Co., Ltd.
18B96E (base 16) Dongguan Liesheng Electronic Co., Ltd.
F5, Building B, North Block, Gaosheng Tech Park, No. 84 Zhongli Road, Nancheng District, Dongguan Ci
dongguan guangdong 523000
CN

64-BE-63 (hex) STORDIS GmbH
64BE63 (base 16) STORDIS GmbH
Rosenwiesstr. 17
Stuttgart 70567
DE

F8-95-22 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F89522 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng
Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F8-B1-32 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F8B132 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-F1-22 (hex) Nexar Ltd.
C4F122 (base 16) Nexar Ltd.
58 HaRakevet st

Tel Aviv Tel Aviv 6777016
IL

60-07-C4 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
6007C4 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

E8-47-27 (hex) Quectel Wireless Solutions Co.,Ltd.
E84727 (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

28-C5-38 (hex) Apple, Inc.
28C538 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

04-99-B9 (hex) Apple, Inc.
0499B9 (base 16) Apple, Inc.
1 Infinite
Loop
Cupertino CA 95014
US

78-02-8B (hex) Apple, Inc.
78028B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

44-48-FF (hex) Qingdao Haier Technology Co.,Ltd
4448FF (base 16) Qingdao Haier Technology Co.,Ltd
Building A01,Haier Information Park, No.1 Haier Road,
Qingdao Shandong 266101
CN

04-C4-61 (hex) Murata Manufacturing Co., Ltd.
04C461 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

A0-82-22 (hex) Qingdao Haier Technology Co.,Ltd
A08222 (base 16) Qingdao Haier Technology Co.,Ltd

Building A01,Haier Information Park, No.1 Haier Road,
Qingdao Shandong 266101
CN

E0-1F-2B (hex) Nokia Solutions and Networks GmbH & Co. KG
E01F2B (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

08-16-D5 (hex) GOERTEK INC.
0816D5 (base 16) GOERTEK INC.
GoerTek
park one phase 4 # east unloading platform,The Corner of Weian road & Yingqian street, High-tech Zone, Weifang, Shandong, China 261031
weifang shandong 261031
CN

D4-D7-CF (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
D4D7CF (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

F4-E4-D7 (hex) FUJIAN STAR-NET COMMUNICATION CO.,LTD
F4E4D7 (base 16) FUJIAN STAR-NET COMMUNICATION CO.,LTD
19-22# Building, Star-net Science Plaza, Juyuanzhou,
FUZHOU FUJIAN 350002
CN

F8-4E-17 (hex) Sony Corporation
F84E17 (base 16) Sony Corporation
Sony City Osaki 2-10-1
Shinagawa-ku Tokyo 141-8610
JP

A8-C2-66 (hex) HUMAX Co., Ltd.
A8C266 (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

AC-82-26 (hex) Qingdao Haier Technology Co.,Ltd
AC8226
(base 16) Qingdao Haier Technology Co.,Ltd
Building A01,Haier Information Park, No.1 Haier Road,
Qingdao Shandong 266101
CN

C8-CB-9E (hex) Intel Corporate
C8CB9E (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

54-0F-57 (hex) Silicon Laboratories
540F57 (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

F8-4D-89 (hex) Apple, Inc.
F84D89 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

BC-DB-09 (hex) Cisco Meraki
BCDB09 (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco 94158
US

9C-2B-A6 (hex) Ruijie Networks Co.,LTD
9C2BA6 (base 16) Ruijie Networks Co.,LTD
No. 2, 7th floor, xingwangruijie, haixi hi-tech industrial park, high-tech zone, fuzhou city
Fuzhou Fujian 350002
CN

94-14-57 (hex) Shenzhen Sundray Technologies Company Limited
941457 (base 16) Shenzhen Sundray Technologies
Company Limited
5th Floor, Block A4, Nanshan ipark,NO.1001 Xue Yuan Road, Nanshan District, Shenzhen 518055, P.R. China
Shenzhen Guangdong 518057
CN

B8-98-AD (hex) Motorola Mobility LLC, a Lenovo Company
B898AD (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

64-B9-4E (hex) Dell Technologies
64B94E (base 16) Dell Technologies
Matam Park, Bld 8B, PO Box 15046 3190500 HAIFA ISRAEL
HAIFA HAIFA 15046

IL

54-47-E8 (hex) Syrotech Networks. Ltd.
5447E8 (base 16) Syrotech Networks. Ltd.
UNIT NO.-5 20F, KIN WING INDUSTERIAL BUILDING,33 KIN WING STREET
TUEN MUN 999077
HK

EC-2B-EB (hex) Amazon Technologies Inc.
EC2BEB (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

1C-AE-3E (hex) IEEE Registration Authority
1CAE3E (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

D0-C3-5A
(hex) Jabil Circuit de Chihuahua
D0C35A (base 16) Jabil Circuit de Chihuahua
C/O SPACE BORDER LOGISTICS, INC 9560 Joe Rodriguez Dr. Docks 17 & 18
El Paso TX 79927
US

84-B6-30 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
84B630 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

3C-55-76 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
3C5576 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

90-EB-48 (hex) Shanghai XinMiaoLink Technology Co., Ltd
90EB48 (base 16) Shanghai XinMiaoLink Technology Co., Ltd
Room 601,6F ,No.1399 Minsheng Road,Pudong New Area,Shanghai,China
Shanghai 200120
CN

18-53-45 (hex) Nokia
185345 (base 16) Nokia
600 March Road

Kanata
Ontario K2K 2E6
CA

E4-82-10 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E48210 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

70-52-D8 (hex) ITEL MOBILE LIMITED
7052D8 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

00-1D-5B (hex) Tecvan Informatica Ltda
001D5B (base 16) Tecvan Informatica Ltda
Rua Guaicurus, 145
Diadema São Paulo 09911-630
BR

1C-56-8E (hex) Zioncom Electronics (Shenzhen) Ltd.
1C568E (base 16) Zioncom Electronics (Shenzhen) Ltd.
A1&A2 Building,Lantian Technology Park, Xinyu Road, Xingqiao Henggang Block, Shajing Street, Baoan District
Shenzhen Guangdong 518000
CN

28-56-3A (hex) Fiberhome Telecommunication Technologies Co.,LTD
28563A (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan
Hubei 430074
CN

BC-57-29 (hex) Shenzhen KKM Co., Ltd
BC5729 (base 16) Shenzhen KKM Co., Ltd
Room 3B,Building 6A, BaoNeng Park, QingXiang Road, LongHua District
ShenZhen Guangdong 518000
CN

0C-CA-FB (hex) TPVision Europe B.V
0CCAFB (base 16) TPVision Europe B.V
Prins Bernhardplein 200
Amsterdam Noord-Holland 1097 JB
NL

F8-F7-B9 (hex) HUAWEI TECHNOLOGIES CO.,LTD

F8F7B9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

20-7B-D2 (hex) ASIX Electronics Corporation
207BD2 (base 16) ASIX Electronics Corporation
4F, No. 8, Hsin Ann Road, Hsinchu Science Park
Hsinchu 30078
TW

68-77-24 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
687724 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

18-2D-F7
(hex) JY COMPANY
182DF7 (base 16) JY COMPANY
A-1811 Ho, SamboTechno Tower,122, Jomaru-ro 385 Beon-gil,
Buchenon-si Gyenggi-do 14556
KR

EC-2C-11 (hex) CWD INNOVATION LIMITED
EC2C11 (base 16) CWD INNOVATION LIMITED
101, First Floor, 439 Hasam Premji Building, Kalbadevi
Mumbai Maharashtra 400002
IN

D8-6C-5A (hex) HUMAX Co., Ltd.
D86C5A (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

E4-C0-E2 (hex) Sagemcom Broadband SAS
E4C0E2 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

4C-3F-A7 (hex) uGrid Network Inc.
4C3FA7 (base 16) uGrid Network Inc.
602 Gabriola Way
Ottawa Ontario K2T 0M2
CA

20-67-E0 (hex) Shenzhen iComm Semiconductor CO.,LTD
2067E0 (base 16) Shenzhen iComm Semiconductor CO.,LTD
Room 504A,Block B,Digital Building,Gargen City,No.1079,Nanhai
Road,Nanshan District,Shenzhen.
Shenzhen 518067
CN

54-52-84 (hex) Huawei Device Co., Ltd.
545284 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

64-61-40 (hex) Huawei Device Co., Ltd.
646140 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C4-17-0E (hex) Huawei Device Co., Ltd.
C4170E (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

F0-CD-31 (hex) Samsung Electronics Co.,Ltd
F0CD31 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

64-01-FB (hex) Landis+Gyr GmbH
6401FB (base 16) Landis+Gyr GmbH
Humboldtstrasse 64
Nürnberg Bavaria 90459
DE

F0-35-75 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
F03575 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai
High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

90-81-75 (hex) Samsung Electronics Co.,Ltd
908175 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350

KR

30-74-67 (hex) Samsung Electronics Co.,Ltd
307467 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

58-C7-AC (hex) New H3C Technologies Co., Ltd
58C7AC (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

7C-83-34 (hex) IEEE Registration Authority
7C8334 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

24-97-45 (hex) HUAWEI TECHNOLOGIES CO.,LTD
249745 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C0-F5-35 (hex) AMPAK Technology,Inc.
C0F535 (base 16) AMPAK Technology,Inc.
3F,
No.15-1 Zhonghua Road, Hsinchu Industrail Park, Hukou,
Hsinchu Hsinchu,Taiwan R.O.C. 30352
TW

8C-3D-B1 (hex) Beijing H-IoT Technology Co., Ltd.
8C3DB1 (base 16) Beijing H-IoT Technology Co., Ltd.
1268, Building 2, No. 38, Kechuang Fifth Street, Beijing Economic and Technological Development Zone
Beijing Beijing 101111
CN

F4-23-9C (hex) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
F4239C (base 16) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
NO.8 Tangzhuang Road,Suzhou Industrial Park,Su ZhouCity,JiangSu Province,China
Suzhou 215021
CN

FC-A6-4C (hex) Alibaba cloud computing Co., Ltd
FCA64C (base 16) Alibaba cloud computing Co., Ltd
No.12, Zhuantang science and technology economic block, Xihu District

Hangzhou Zhejiang 310024
CN

E0-69-BA (hex) Cisco Systems, Inc
E069BA (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

24-36-DA (hex) Cisco Systems, Inc
2436DA
(base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

4C-EB-D6 (hex) Espressif Inc.
4CEBD6 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

F8-B5-4D (hex) Intel Corporate
F8B54D (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

38-A8-CD (hex) IEEE Registration Authority
38A8CD (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

54-67-06 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
546706 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

D8-A6-F0 (hex) Wu Qi Technologies,Inc.
D8A6F0 (base 16) Wu Qi Technologies,Inc.
14/F, 107 Middle Road, Xiantao Big Data Valley, Yubei District
Chongqing Chongqing 401120
CN

08-E4-DF (hex) Shenzhen Sande Dacom Electronics Co., Ltd
08E4DF

(base 16) Shenzhen Sande Dacom Electronics Co., Ltd
bantian
shenzhen Guangdong 518129
CN

14-58-08 (hex) Taicang T&W Electronics
145808 (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

C4-E5-32 (hex) Arcadyan Corporation
C4E532 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

10-5A-17 (hex) Tuya Smart Inc.
105A17 (base 16) Tuya Smart Inc.
160 Greentree Drive, Suite 101
Dover DE 19904
US

00-8A-76 (hex) Apple, Inc.
008A76 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

20-37-A5 (hex) Apple, Inc.
2037A5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

DC-B5-4F (hex) Apple, Inc.
DCB54F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B8-37-4A (hex) Apple, Inc.
B8374A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA
95014
US

EC-7C-2C (hex) HUAWEI TECHNOLOGIES CO.,LTD
EC7C2C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

24-F6-03 (hex) HUAWEI TECHNOLOGIES CO.,LTD
24F603 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

08-FA-28 (hex) HUAWEI TECHNOLOGIES CO.,LTD
08FA28 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F4-B1-9C (hex) AltoBeam (China) Inc.
F4B19C (base 16) AltoBeam (China) Inc.
B808, Tsinghua Tongfang Hi-Tech Plaza, Haidian
Beijing Beijing 100083
CN

A8-D0-81 (hex) Huawei Device Co., Ltd.
A8D081 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

EC-C1-AB (hex) Guangzhou Shiyuan Electronic Technology Company Limited
ECC1AB
(base 16) Guangzhou Shiyuan Electronic Technology Company Limited
No.6, 4th Yunpu Road, Yunpu industry District
Guangzhou Guangdong 510530
CN

1C-9D-C2 (hex) Espressif Inc.
1C9DC2 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

90-6A-94 (hex) hangzhou huacheng network technology co., ltd
906A94 (base 16) hangzhou huacheng network technology co., ltd
Room 412, Building 2, No.2930, Nanhuan Road, Binjiang District
hangzhou zhejiang 310052
CN

10-0C-29 (hex) Shenzhen NORCO lntelligent Technology Co.,Ltd
100C29 (base 16) Shenzhen NORCO lntelligent Technology Co.,Ltd
6th Fl., Bldg. B, Shum Yip U Centre, Hangcheng Sub-district, Baoan District, Shenzhen
Shenzhen 518126
CN

00-00-C8 (hex) ALTOS COMPUTER SYSTEMS
0000C8 (base 16) ALTOS COMPUTER SYSTEMS
2641 ORCHARD PARKWAY
SAN JOSE CA 95134
US

74-32-C2 (hex) KYOLIS
7432C2
(base 16) KYOLIS
2 RUE DE LA RENAISSANCE
ANTONY 92160
FR

64-0E-9B (hex) ISHIDA MEDICAL CO., LTD.
640E9B (base 16) ISHIDA MEDICAL CO., LTD.
60-1 Shogoin Rengezocho, Sakyo-Ku
Kyoto-Shi Kyoto-Fu 606-8357
JP

24-42-BC (hex) Alinco,incorporated
2442BC (base 16) Alinco,incorporated
Yodoyabashi Dai-Bldg 13F,
Osaka Osaka pref. 541-0043
JP

18-FC-26 (hex) Qorvo International Pte. Ltd.
18FC26 (base 16) Qorvo International Pte. Ltd.
1 Changi Business Park Avenue 1
#04-01 486058
SG

00-CE-30 (hex) Express LUCK Industrial Ltd.
00CE30 (base 16) Express LUCK Industrial Ltd.
No. 88, Baotongnan Road, Xikeng, Yuanshan Street, Longgang District
Shenzhen Guangdong 518100
CN

5C-83-82 (hex) Nokia
5C8382 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6

CA

28-36-13 (hex) IEEE Registration Authority
283613 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway
NJ 08554
US

0C-AA-EE (hex) Ansjer Electronics Co., Ltd.
0CAAEE (base 16) Ansjer Electronics Co., Ltd.
4 Bldg., Pinglan Indl. Park, Nanping,
Zhuhai Guangdong 519060
CN

6C-11-B3 (hex) Wu Qi Technologies,Inc.
6C11B3 (base 16) Wu Qi Technologies,Inc.
14/F, 107 Middle Road, Xiantao Big Data Valley, Yubei District
Chongqing Chongqing 401120
CN

1C-2C-E0 (hex) Shanghai Mountain View Silicon
1C2CE0 (base 16) Shanghai Mountain View Silicon
Suite 4C, Building 3, 1238 Zhangjiang Rd., Pudong
Shanghai 201210
CN

74-0C-EE (hex) Huawei Device Co., Ltd.
740CEE (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

6C-B4-FD (hex) Huawei Device Co., Ltd.
6CB4FD (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

0C-0E-76 (hex) D-Link International
0C0E76 (base
16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

38-B8-00 (hex) Wistron Neweb Corporation
38B800 (base 16) Wistron Neweb Corporation

No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

70-3E-97 (hex) Iton Technology Corp.
703E97 (base 16) Iton Technology Corp.
Room 1302, Block A, Building 4, Tianan Cyber Park, Huangge Road,Longgang District
Shenzhen Guangdong 518116
CN

10-47-38 (hex) Nokia Shanghai Bell Co., Ltd.
104738 (base 16) Nokia Shanghai Bell Co., Ltd.
No.388 Ning Qiao Road,Jin Qiao Pudong Shanghai
Shanghai 201206
CN

A0-94-1A (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
A0941A (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

F8-CA-85 (hex) NEC Corporation
F8CA85 (base 16) NEC Corporation
7-1 Shiba 5-chome
Minato-Ku
Tokyo 108-8001
JP

DC-ED-83 (hex) Beijing Xiaomi Mobile Software Co., Ltd
DCED83 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

BC-D7-D4 (hex) Roku, Inc
BCD7D4 (base 16) Roku, Inc
1155 Coleman Ave
San Jose CA 95110
US

AC-0B-FB (hex) Espressif Inc.
AC0BFB (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

B4-1C-AB (hex) ICR, inc.

B41CAB (base 16) ICR, inc.
6200 S Main St Suite 200
Aurora CO 80016
US

CC-31-2A (hex) HUIZHOU TCL COMMUNICATION ELECTRON CO.,LTD
CC312A (base 16) HUIZHOU TCL COMMUNICATION ELECTRON CO.,LTD
2nd Floor, Building 1,Dongnan Jiahao Industrial Park,NO.3 Donghe South Road, Dongxing District,Dongjiang high-tech Zone
Huizhou Guangdong 516055
CN

30-0E-B8 (hex) LG Electronics
300EB8 (base 16) LG
Electronics
222 LG-ro, JINWI-MYEON
Pyeongtaek-si Gyeonggi-do 451-713
KR

94-5A-FC (hex) Amazon Technologies Inc.
945AFC (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

00-D7-6D (hex) Intel Corporate
00D76D (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

2C-11-65 (hex) Silicon Laboratories
2C1165 (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

1C-2A-8B (hex) Nokia
1C2A8B (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

BC-33-29 (hex) Sony Interactive Entertainment Inc.
BC3329 (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

A8-89-40 (hex) Huawei Device Co., Ltd.
A88940 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

30-B0-37 (hex) New H3C Technologies Co., Ltd
30B037
(base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

20-B8-68 (hex) Motorola Mobility LLC, a Lenovo Company
20B868 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

28-9C-6E (hex) Shanghai High-Flying Electronics Technology Co., Ltd
289C6E (base 16) Shanghai High-Flying Electronics Technology Co., Ltd
Room 1002,#1Building,No.3000 Longdong Avenue,Pudong
Shanghai Shanghai 201202
CN

FC-12-2C (hex) HUAWEI TECHNOLOGIES CO.,LTD
FC122C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

6C-D1-E5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
6CD1E5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

84-F7-03 (hex) Espressif Inc.
84F703 (base 16) Espressif
Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

A8-5B-36 (hex) IEEE Registration Authority
A85B36 (base 16) IEEE Registration Authority
445 Hoes Lane

Piscataway NJ 08554
US

30-39-A9 (hex) Hongshan Information Science and Technology (HangZhou) Co.,Ltd.
3039A9 (base 16) Hongshan Information Science and Technology (HangZhou) Co.,Ltd.
32 / F, Yuesheng International Center, Pinglan Road, Xiaoshan District, Hangzhou, Zhejiang Province
Hangzhou Zhejiang Province 311215
CN

FC-D9-08 (hex) Xiaomi Communications Co Ltd
FCD908 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

1C-57-3E (hex) Altice Labs S.A.
1C573E (base 16) Altice Labs S.A.
NIF 504705610, Rua Eng. José Ferreira Pinto Basto
Aveiro 3810-106
PT

D0-16-7C (hex) eero inc.
D0167C (base 16) eero inc.
660
3rd Street
San Francisco CA 94107
US

84-14-4D (hex) Intel Corporate
84144D (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

44-D5-CC (hex) Amazon Technologies Inc.
44D5CC (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

48-5A-67 (hex) Shaanxi Ruixun Electronic Information Technology Co., Ltd
485A67 (base 16) Shaanxi Ruixun Electronic Information Technology Co., Ltd
11th Floor, Building A, Xi 'an National Digital Publishing Base, No. 996, Tiangu 7th Road, Software New City, Xi 'an High-tech Zone, Shaanxi Province
Xi’an Shaanxi 710000
CN

9C-6B-F0 (hex) Shenzhen Yipingfang Network Technology Co., Ltd.

9C6BF0 (base 16) Shenzhen Yipingfang Network Technology Co., Ltd.
21 / F, Kangjia R & D building, No.28, Keji South 12th Road, Nanshan District, Shenzhen City, Guangdong Province, China
Shenzhen Nanshan District 518000
CN

44-95-3B (hex) RLTech
India Private Limited
44953B (base 16) RLTech India Private Limited
C-2, Sector-85, Noida
Gautam Buddha Nagar Uttar Pradesh 201301
IN

4C-77-CB (hex) Intel Corporate
4C77CB (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

64-C4-03 (hex) Quectel Wireless Solutions Co.,Ltd.
64C403 (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

EC-94-68 (hex) META SYSTEM SPA
EC9468 (base 16) META SYSTEM SPA
VIA LAGHETTO 1
MORNAGO, VARESE ITALY 21020
IT

1C-41-90 (hex) Universal Electronics, Inc.
1C4190 (base 16) Universal Electronics, Inc.
201 E. Sandpointe Ave
Santa Ana CA 92707
US

00-00-5B (hex) ELTEC ELEKTRONIK AG
00005B (base 16) ELTEC ELEKTRONIK AG
Galileo-Galilei-Strasse 11

DE

94-5C-9A (hex) Apple, Inc.
945C9A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino

CA 95014
US

00-F3-9F (hex) Apple, Inc.
00F39F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

64-C3-94 (hex) HUAWEI TECHNOLOGIES CO.,LTD
64C394 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

8C-1F-64 (hex) IEEE Registration Authority
8C1F64 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

F4-7B-09 (hex) Intel Corporate
F47B09 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

E8-78-29 (hex) IEEE Registration Authority
E87829 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

50-32-5F (hex) Silicon Laboratories
50325F (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

FC-8A-3D (hex) zte corporation
FC8A3D (base 16) zte corporation
12/F.,zte
R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

70-5F-A3 (hex) Xiaomi Communications Co Ltd
705FA3 (base 16) Xiaomi Communications Co Ltd

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

3C-62-F0 (hex) Sercomm Corporation.
3C62F0 (base 16) Sercomm Corporation.
3F,No.81,Yu-Yih Rd.,Chu-Nan Chen
Miao-Lih Hsuan 115
TW

98-3B-67 (hex) DWnet Technologies(Suzhou) Corporation
983B67 (base 16) DWnet Technologies(Suzhou) Corporation
No.8,Tangzhuang Road, Suzhou Industrial Park, Jiangsu, China
Suzhou 21500
CN

08-5A-11 (hex) D-Link International
085A11 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

6C-93-92 (hex) BEKO Technologies GmbH
6C9392 (base 16) BEKO Technologies GmbH
Im Taubental 7
Neuss Nordrhein-Westfalen 41468
DE

58-35-5D (hex) Huawei
Device Co., Ltd.
58355D (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

AC-7E-01 (hex) Huawei Device Co., Ltd.
AC7E01 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

D0-17-69 (hex) Murata Manufacturing Co., Ltd.
D01769 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

3C-BD-D8 (hex) LG ELECTRONICS INC

3CBDD8 (base 16) LG ELECTRONICS INC
19-1, CHEONGHO-RI, JINWI-MYEON
PYEONGTAEK GYEONGGI-DO 451-713
KR

54-C2-50 (hex) Iskratel d.o.o.
54C250 (base 16) Iskratel d.o.o.
Ljubljanska cesta 24a
Kranj 4000
SI

00-FA-B6 (hex) Kontakt Micro-Location Sp z o.o.
00FAB6 (base 16) Kontakt Micro-Location Sp z o.o.
Stoczniowcow 3
Krakow 30-709
PL

30-B3-46 (hex) CJSC NORSI-TRANS
30B346 (base 16) CJSC NORSI-TRANS
B.Novodmitrovskaya,
12/15 floor 2 r. 36
Moscow MOSCOW 127015
RU

00-04-B8 (hex) Kumahira Co., Ltd.
0004B8 (base 16) Kumahira Co., Ltd.
4-34 Ujinahigashi 2-Chome
JAPAN 734-8567
JP

00-0B-3A (hex) PESA Inc.
000B3A (base 16) PESA Inc.
103 Quality Circle, Suite 210
Huntsville AL 35806
US

A0-B0-86 (hex) Hirschmann Automation and Control GmbH
A0B086 (base 16) Hirschmann Automation and Control GmbH
Stuttgarter Straße 45-51
Neckartenzlingen D-72654
DE

F0-C8-14 (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
F0C814 (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268? Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

18-74-E2 (hex) IEEE Registration Authority
1874E2 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

70-B9-50 (hex) Texas Instruments
70B950 (base 16) Texas Instruments
12500
TI Blvd
Dallas TX 75243
US

78-1C-5A (hex) SHARP Corporation
781C5A (base 16) SHARP Corporation
22-22,Nagaike-cho
Osaka city Osaka prefecture 545-8522
JP

C4-5E-5C (hex) HUAWEI TECHNOLOGIES CO.,LTD
C45E5C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

5C-E4-2A (hex) Intel Corporate
5CE42A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

20-C1-9B (hex) Intel Corporate
20C19B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

2C-6D-C1 (hex) Intel Corporate
2C6DC1 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

7C-F4-62 (hex) BEIJING HUAWOO TECHNOLOGIES CO.LTD
7CF462 (base 16) BEIJING HUAWOO TECHNOLOGIES CO.LTD
A411-3, floor 3, block A, 9 Shangdi 3rd Street, Haidian District, Beijing
beijing 100094
CN

D0-9F-D9
(hex) IEEE Registration Authority
D09FD9 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

04-B9-E3 (hex) Samsung Electronics Co.,Ltd
04B9E3 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

94-AA-0A (hex) Fiberhome Telecommunication Technologies Co.,LTD
94AA0A (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

E8-5C-0A (hex) Cisco Systems, Inc
E85C0A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

C8-05-9E (hex) Hefei Symboltek Co.,Ltd
C8059E (base 16) Hefei Symboltek Co.,Ltd
Standard factory building 2 layer,Tianmen Lake 1#,No.36 Fairview Avenue District Econmic Development Zone Hefei, Anhui
Hefei Anhui 230601
CN

34-FC-A1 (hex) Micronet union Technology(Chengdu)Co., Ltd.
34FCA1 (base 16) Micronet union Technology(Chengdu)Co.,
Ltd.
No.502, Building 5, No. 528, Yuefei Road, Shibantan Street, Xindu District
Chengdu Sichuan 610000
CN

10-7B-CE (hex) Nokia
107BCE (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

28-97-B8 (hex) myenergi Ltd
2897B8 (base 16) myenergi Ltd

Church View Business Centre, Binbrook
Market Rasen Lincolnshire LN8 6BY
GB

20-41-5A (hex) Smarteh d.o.o.
20415A (base 16) Smarteh d.o.o.
Trg tigrovcev 1
Tolmin 5220
SI

B0-A7-B9 (hex) TP-Link Corporation Limited
B0A7B9 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

6C-5A-B0 (hex) TP-Link Corporation Limited
6C5AB0 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

60-E6-F0 (hex) Wistron Neweb Corporation
60E6F0 (base 16) Wistron Neweb
Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

C8-F5-D6 (hex) IEEE Registration Authority
C8F5D6 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

98-43-FA (hex) Intel Corporate
9843FA (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

20-D2-76 (hex) ITEL MOBILE LIMITED
20D276 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

08-A8-42 (hex) Huawei Device Co., Ltd.

08A842 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

B8-25-B5 (hex) Trakm8 Ltd
B825B5 (base 16) Trakm8 Ltd
4 Roman Park, Roman Way
Coleshill West Midlands B46 1HG
GB

40-58-99 (hex) Logitech Far East
405899 (base 16) Logitech Far East
#2 Creation Rd. 4,
Hsinchu
300
TW

F4-4E-38 (hex) Olibra LLC
F44E38 (base 16) Olibra LLC
45 legin dr
creskill NJ 07626
US

20-1F-3B (hex) Google, Inc.
201F3B (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

A0-D7-22 (hex) Samsung Electronics Co.,Ltd
A0D722 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

50-49-B0 (hex) Samsung Electronics Co.,Ltd
5049B0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E8-05-DC (hex) Verifone Inc.
E805DC (base 16) Verifone Inc.
2560 North First Street, Suite 220
San Jose CA 95131
US

00-0C-DF (hex) JAI Manufacturing
000CDF (base 16) JAI Manufacturing
2960-14 Uenojo Nishikata
Kushima Miyazaki 888-0004
JP

C4-A1-51 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
C4A151 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow
Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

78-47-E3 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
7847E3 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
NO.198 FIRST SECTION,SNOW MOUNTAIN AVENUE, JINYUAN TOWN, DAYI COUNTY,
CHENGDU SICHUAN 611330
CN

00-00-B8 (hex) SEIKOSHA CO., LTD.
0000B8 (base 16) SEIKOSHA CO., LTD.
SYSTEM EQUIPMENT DIVISION

JP

D0-35-E5 (hex) EM Microelectronic
D035E5 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

90-96-F3 (hex) BUFFALO.INC
9096F3 (base 16) BUFFALO.INC
AKAMONDORI Bld.,30-20,Ohsu 3-chome,Naka-ku
Nagoya Aichi Pref. 460-8315
JP

54-0E-58 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
540E58 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

5C-64-8E (hex) Zyxel Communications Corporation
5C648E
(base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300

TW

30-E3-96 (hex) Huawei Device Co., Ltd.
30E396 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

D0-7D-33 (hex) Huawei Device Co., Ltd.
D07D33 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C0-E1-BE (hex) HUAWEI TECHNOLOGIES CO.,LTD
C0E1BE (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

88-E0-56 (hex) HUAWEI TECHNOLOGIES CO.,LTD
88E056 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

2C-8D-B1 (hex) Intel Corporate
2C8DB1 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

58-6C-25
(hex) Intel Corporate
586C25 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

2C-C8-1B (hex) Routerboard.com
2CC81B (base 16) Routerboard.com
Mikrotikls SIA
Riga Riga LV1009
LV

04-27-28 (hex) Microsoft Corporation
042728 (base 16) Microsoft Corporation
One Microsoft Way

REDMOND WA 98052
US

A4-9B-CD (hex) Cisco Systems, Inc
A49BCD (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

B4-E3-F9 (hex) Silicon Laboratories
B4E3F9 (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

20-66-CF (hex) FREEBOX SAS
2066CF (base 16) FREEBOX SAS
16 rue de la Ville l'Eveque
PARIS IdF 75008
FR

F0-92-B4 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
F092B4 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12, TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu
Sichuan 610000
CN

EC-F8-EB (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
ECF8EB (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12, TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

2C-63-73 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
2C6373 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12, TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

E0-92-5C (hex) Apple, Inc.
E0925C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-11-6C (hex) Nanwang Multimedia Inc.,Ltd
00116C (base 16) Nanwang Multimedia Inc.,Ltd

Floor 12,Tianyuan Bldg,Wensan Rd#508
Hangzhou Zhejiang 310013
CN

28-F4-9B (hex) LEETEK
28F49B (base 16) LEETEK
Ojeong-ro, 47
Bucheon-si Gyeonggi-do 14445
KR

18-42-D4 (hex) Wuhan Hosan Telecommunication Technology Co.,Ltd
1842D4
(base 16) Wuhan Hosan Telecommunication Technology Co.,Ltd
Fourth Floor,Building N,Quannengtong Shuangchuang Yuan,Gold-silver Lake Street,East West Lake District,
Wuhan Hubei 430043
CN

A8-63-7D (hex) D-Link International
A8637D (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

D8-E7-2B (hex) NETSCOUT SYSTEMS INC
D8E72B (base 16) NETSCOUT SYSTEMS INC
310 Littleton Road
Westford MA 01886
US

78-E3-6D (hex) Espressif Inc.
78E36D (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

14-5A-FC (hex) Liteon Technology Corporation
145AFC (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

EC-15-3D (hex) Beijing Yaxunhongda Technology Co., Ltd.
EC153D (base 16) Beijing Yaxunhongda Technology Co., Ltd.
East area,4th floor,No.5,Shangdi
5th Street Haidian District,Beijing
Beijing Beijing 100000
CN

D8-A3-5C (hex) Samsung Electronics Co.,Ltd
D8A35C (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

C0-92-96 (hex) zte corporation
C09296 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

50-E2-4E (hex) zte corporation
50E24E (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

2C-43-BE (hex) Sunnovo International Limited
2C43BE (base 16) Sunnovo International Limited
1717 Haitai Building
Beijing Beijing 100083
CN

58-10-B7 (hex) Infinix mobility limited
5810B7 (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

1C-91-80 (hex) Apple,
Inc.
1C9180 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

4C-B9-10 (hex) Apple, Inc.
4CB910 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B4-89-01 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B48901 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

44-9B-C1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
449BC1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

20-25-D2 (hex) Fiberhome Telecommunication Technologies Co.,LTD
2025D2 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

34-86-5D (hex) Espressif Inc.
34865D (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

00-01-39 (hex) Point Multimedia Systems
000139
(base 16) Point Multimedia Systems
4Ra 507, Shihwa Industrial Complex
Korea 425-110
KR

B0-24-91 (hex) Huawei Device Co., Ltd.
B02491 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

98-75-1A (hex) Huawei Device Co., Ltd.
98751A (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

18-BF-B3 (hex) Samsung Electronics Co., Ltd., Memory Division
18BFB3 (base 16) Samsung Electronics Co., Ltd., Memory Division
1, Samsungjeonja-ro
Hwaseong-si Gyeonggi-do 18448
KR

08-2C-ED (hex) Technity Solutions Inc.
082CED (base 16) Technity Solutions Inc.
100 West Beaver Creek Rd, Unit 13

Richmond Hill Ontario L4B 1H4
CA

1C-A0-EF (hex) IEEE Registration Authority
1CA0EF (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

6C-1B-3F (hex) MiraeSignal Co., Ltd
6C1B3F (base 16) MiraeSignal Co., Ltd
#701,C-dong Bundang Techno Park Pangyoro 744
Bundang-gu Sungnam-si Kyungkido 13510
KR

B0-3D-C2 (hex) Wasp artificial intelligence(Shenzhen) Co.,ltd
B03DC2 (base 16) Wasp artificial intelligence(Shenzhen) Co.,ltd
A402,Block ABCD,Building 3,Phase 1,Tianan Yungu Industrial Park,Gangtou Comunity,Bantian Street,Longhua District,Shenzhen
Shenzhen Select State 518000
CN

C8-4D-34 (hex) LIONS Taiwan Technology Inc.
C84D34 (base 16) LIONS Taiwan Technology Inc.
3F-2, 120, Sec. 2, Gongdao 5th Rd.
Hsinchu Taiwan 30072
TW

44-6F-F8 (hex) Dyson Limited
446FF8 (base 16) Dyson Limited
Tetbury Hill
Malmesbury Wiltshire SN16 0RP
GB

9C-76-13 (hex) Ring LLC
9C7613 (base 16) Ring LLC
1523 26th St
Santa Monica CA 90404
US

D0-97-FE (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
D097FE (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

84-3A-5B (hex) Inventec(Chongqing) Corporation
843A5B (base 16) Inventec(Chongqing) Corporation
No.66 West District 2nd Rd, Shapingba District
Chongqing Chongqing 401331
CN

28-AF-FD (hex) Cisco Systems, Inc
28AFFD (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

EC-93-65 (hex) Mapper.ai, Inc.
EC9365 (base 16) Mapper.ai, Inc.
400 Treat Ave, Suite G
San Francisco CA 94110
US

D8-EB-46 (hex) Google, Inc.
D8EB46 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

78-10-53 (hex) China Mobile Group Device Co.,Ltd.
781053 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

F8-3E-95 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F83E95 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2
Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

48-12-58 (hex) HUAWEI TECHNOLOGIES CO.,LTD
481258 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

CC-32-96 (hex) Huawei Device Co., Ltd.
CC3296 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

2C-17-E0 (hex) SYSTEMES ET TECHNOLOGIES IDENTIFICATION (STid)
2C17E0 (base 16) SYSTEMES ET TECHNOLOGIES IDENTIFICATION (STid)
20 Parc d'activités des Pradeaux
GREASQUE Select State F-13850
FR

54-49-DF (hex) Peloton Interactive, Inc
5449DF (base 16) Peloton Interactive, Inc
158 W 27th St, 4th Fl
New York NY 10001
US

98-CD-AC (hex) Espressif Inc.
98CDAC (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

80-8A-F7
(hex) Nanoleaf
808AF7 (base 16) Nanoleaf
100 Front Street East, 4th Floor
Toronto Ontario M5A 1E1
CA

18-2A-57 (hex) HUAWEI TECHNOLOGIES CO.,LTD
182A57 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

08-47-4C (hex) Nokia
08474C (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

90-C1-19 (hex) Nokia
90C119 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

D8-CD-2C (hex) WUXI NEIHUA NETWORK TECHNOLOGY CO., LTD
D8CD2C (base 16) WUXI NEIHUA NETWORK TECHNOLOGY CO., LTD
16 Lexing Road, Xinwu District
Wuxi Jiangsu 214000

CN

7C-F8-80 (hex) Cisco Systems, Inc
7CF880 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

60-A7-51 (hex) Huawei Device Co., Ltd.
60A751 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan
Guangdong 523808
CN

10-2B-41 (hex) Samsung Electronics Co.,Ltd
102B41 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

34-4A-C3 (hex) HuNan ZiKun Information Technology CO., Ltd
344AC3 (base 16) HuNan ZiKun Information Technology CO., Ltd
101-8, 1st Floor, Juxing Venture Base, No. 8 Lujing Road, GaoXin Development District
Changsha City Hunan Province 410000
CN

98-1A-35 (hex) HUAWEI TECHNOLOGIES CO.,LTD
981A35 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-E4-21 (hex) Sony Interactive Entertainment Inc.
00E421 (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

D8-5E-D3 (hex) GIGA-BYTE TECHNOLOGY CO.,LTD.
D85ED3 (base 16) GIGA-BYTE TECHNOLOGY CO.,LTD.
Pin-Jen City, Taoyuan, Taiwan, R.O.C.
Pin-Jen Taoyuan 324
TW

24-9A-D8
(hex) YEALINK(XIAMEN) NETWORK TECHNOLOGY CO.,LTD.
249AD8 (base 16) YEALINK(XIAMEN) NETWORK TECHNOLOGY CO.,LTD.

309, 3th Floor, No.16, Yun Ding North Road, Huli District
xiamen Fujian 361015
CN

F8-45-C4 (hex) Shenzhen Netforward Micro-Electronic Co., Ltd.
F845C4 (base 16) Shenzhen Netforward Micro-Electronic Co., Ltd.
Room 611-2?6st Floor,Building 1, The Sunmax Technology Park, No 8 Keyuan Road, Nanshan District
Shenzhen Guangdong 518000
CN

68-2D-83 (hex) SHENZHEN DINGHE COMMUNICATION COMPANY
682D83 (base 16) SHENZHEN DINGHE COMMUNICATION COMPANY
ROOM 1802, BAOYUNDA WULIU INFORMATION BUILDING
SHENZHEN GUANGDONG 518101
CN

A8-43-97 (hex) Innogrit Corporation
A84397 (base 16) Innogrit Corporation
1735 Technology Dr, Suite 620
San Jose CA 95110
US

8C-AA-CE (hex) Xiaomi Communications Co Ltd
8CAACE (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle
Road
Beijing Haidian District 100085
CN

E8-9F-39 (hex) Nokia
E89F39 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

B0-22-7A (hex) HP Inc.
B0227A (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

80-34-28 (hex) Microchip Technology Inc.
803428 (base 16) Microchip Technology Inc.
2355 W. Chandler Blvd.
Chandler AZ 85224
US

40-3F-8C (hex) TP-LINK TECHNOLOGIES CO.,LTD.

403F8C (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

CC-DB-04 (hex) DataRemote Inc.
CCDB04 (base 16) DataRemote Inc.
18001 Old Cutler Rd. Suite 600
Palmetto Bay FL 33157
US

04-D6-F4 (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
04D6F4 (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan
Guangdong 528311
CN

D4-35-1D (hex) Technicolor Delivery Technologies Belgium NV
D4351D (base 16) Technicolor Delivery Technologies Belgium NV
Prins Boudewijnlaan 47
Edegem - Belgium B-2650
BE

F8-AA-3F (hex) DWnet Technologies(Suzhou) Corporation
F8AA3F (base 16) DWnet Technologies(Suzhou) Corporation
No.8,Tangzhuang Road, Suzhou Industrial Park, Jiangsu, China
Suzhou 21500
CN

0C-CF-89 (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
0CCF89 (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268? Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

0C-8C-69 (hex) Shenzhen elink smart Co., ltd
0C8C69 (base 16) Shenzhen elink smart Co., ltd
Floor 2,Building A , Hongtian Xinfengze Industrial Park Huang Pu Community , Xin Qiao District ,Baoan Area
shenzhen Guangdong Province 518101
CN

C8-94-02 (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
C89402 (base 16) CHONGQING
FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

7C-B9-4C (hex) Bouffalo Lab (Nanjing) Co., Ltd.
7CB94C (base 16) Bouffalo Lab (Nanjing) Co., Ltd.
5F, Gongxiang Space, No.100 Tuanjie Road, Nanjing, China
Nanjing Jiangsu 211800
CN

C8-33-E5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C833E5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

58-FC-20 (hex) Altice Labs S.A.
58FC20 (base 16) Altice Labs S.A.
NIF 504705610, Rua Eng. José Ferreira Pinto Basto
Aveiro 3810-106
PT

B8-44-AE (hex) TCT mobile ltd
B844AE (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

E4-F7-5B (hex) ARRIS Group, Inc.
E4F75B (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

F8-79-0A
(hex) ARRIS Group, Inc.
F8790A (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

1C-93-7C (hex) ARRIS Group, Inc.
1C937C (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-68-2B (hex) Huawei Device Co., Ltd.
00682B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808

CN

98-AD-1D (hex) Huawei Device Co., Ltd.
98AD1D (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

F0-77-C3 (hex) Intel Corporate
F077C3 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

04-90-81 (hex) Pensando Systems, Inc.
049081 (base 16) Pensando Systems, Inc.
570 Alder Drive
Milpitas CA 95035
US

4C-79-6E (hex) Intel Corporate
4C796E (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim
Kedah 09000
MY

F0-9E-4A (hex) Intel Corporate
F09E4A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

AC-5A-FC (hex) Intel Corporate
AC5AFC (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D8-BB-C1 (hex) Micro-Star INTL CO., LTD.
D8BBC1 (base 16) Micro-Star INTL CO., LTD.
No.69, Lide St.,
New Taipei City Taiwan 235
TW

DC-15-C8 (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
DC15C8 (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95

Berlin Berlin 10559
DE

6C-D6-30 (hex) Rootous System Co.,Ltd
6CD630 (base 16) Rootous System Co.,Ltd
KT B/D 4Floor, 100, Ahopgeori-gil
Yeonseo-myeon Sejong-si 30049
KR

84-D3-43 (hex) Calix Inc.
84D343 (base 16) Calix Inc.
2777 Orchard Pkwy
San Jose CA 95131
US

38-B5-D3 (hex) SecuWorks
38B5D3 (base 16) SecuWorks
#709,
218 Gajeong-ro
Yuseong -gu Daejeon 34129
KR

34-8A-12 (hex) Aruba, a Hewlett Packard Enterprise Company
348A12 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

B0-68-E6 (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
B068E6 (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

34-31-8F (hex) Apple, Inc.
34318F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C4-14-11 (hex) Apple, Inc.
C41411 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

CC-C9-5D (hex) Apple, Inc.
CCC95D (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

70-61-BE (hex) Wistron Neweb Corporation
7061BE (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

D8-47-BB
(hex) Huawei Device Co., Ltd.
D847BB (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E8-6D-E9 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E86DE9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

14-46-58 (hex) HUAWEI TECHNOLOGIES CO.,LTD
144658 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

58-BE-72 (hex) HUAWEI TECHNOLOGIES CO.,LTD
58BE72 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

10-8F-FE (hex) HUAWEI TECHNOLOGIES CO.,LTD
108FFE (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

44-6F-D8 (hex) IEEE Registration Authority
446FD8 (base 16) IEEE
Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

BC-D7-CE (hex) China Mobile (Hangzhou) Information Technology Co., Ltd.
BCD7CE (base 16) China Mobile (Hangzhou) Information Technology Co., Ltd.
No. 1600 Yuhangtang Road, Wuchang Street, Yuhang District, Hangzhou, Zhejiang
Hangzhou Zhejiang 310000
CN

9C-A5-70 (hex) eero inc.
9CA570 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

A0-41-2D (hex) Lansen Systems AB
A0412D (base 16) Lansen Systems AB
Skallebackavägen 3
Halmstad 30241
SE

2C-DD-0C (hex) Discovergy GmbH
2CDD0C (base 16) Discovergy GmbH
Pascalstraße 15
Aachen NRW 52076
DE

BC-9D-42 (hex) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
BC9D42 (base 16) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
Bldg56A,6/F,Baotian Rd3,Xixiang Town,Baoan District,
Shenzhen Guangdong 518000
CN

24-0B-88 (hex) Taicang T&W Electronics
240B88 (base 16) Taicang
T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

0C-93-8F (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
0C938F (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

C4-39-60 (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
C43960 (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

44-B6-BE (hex) Cisco Systems, Inc
44B6BE (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

8C-DE-E6 (hex) Samsung Electronics Co.,Ltd
8CDEE6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

10-EC-81 (hex) Samsung Electronics Co.,Ltd
10EC81 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C4-5D-83 (hex) Samsung Electronics Co.,Ltd
C45D83
(base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

9C-9C-1F (hex) Espressif Inc.
9C9C1F (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

D8-09-D6 (hex) ZEXELON CO., LTD.
D809D6 (base 16) ZEXELON CO., LTD.
195 Tonohiraga,
Matsudo-City Chiba 270-0004
JP

5C-A4-A4 (hex) Fiberhome Telecommunication Technologies Co.,LTD
5CA4A4 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

5C-BD-9A (hex) Huawei Device Co., Ltd.
5CBD9A (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808

CN

14-A3-B4 (hex) Huawei Device Co., Ltd.
14A3B4 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

EC-75-ED (hex) Citrix Systems, Inc.
EC75ED (base
16) Citrix Systems, Inc.
851 W Cypress Creek Rd
Fort Lauderdale FL 33309
US

8C-8C-AA (hex) LCFC(HeFei) Electronics Technology co., ltd
8C8CAA (base 16) LCFC(HeFei) Electronics Technology co., ltd
YunGu Road 3188-1
Hefei Anhui 230000
CN

74-04-F0 (hex) Mobiwire Mobiles (NingBo) Co., LTD
7404F0 (base 16) Mobiwire Mobiles (NingBo) Co., LTD
No.999 Dacheng East Road, Fenghua District, Ningbo City , Zhejiang Province, PRC
Ningbo Zhejiang 315500
CN

B4-B5-B6 (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
B4B5B6 (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

04-7A-0B (hex) Beijing Xiaomi Electronics Co., Ltd.
047A0B (base 16) Beijing Xiaomi Electronics Co., Ltd.
Building C, QingHe ShunShiJiaYe Technology Park, #66 ZhuFang Rd, HaiDian District
Beijing Beijing 10085
CN

90-0F-0C (hex) CLOUD NETWORK
TECHNOLOGY SINGAPORE PTE. LTD.
900F0C (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

4C-11-54 (hex) Mobiwire Mobiles (NingBo) Co., LTD
4C1154 (base 16) Mobiwire Mobiles (NingBo) Co., LTD

No.999 Dacheng East Road, Fenghua District, Ningbo City , Zhejiang Province, PRC
Ningbo Zhejiang 315500
CN

C4-BF-60 (hex) TECNO MOBILE LIMITED
C4BF60 (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

D0-40-EF (hex) Murata Manufacturing Co., Ltd.
D040EF (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

2C-9A-A4 (hex) Eolo SpA
2C9AA4 (base 16) Eolo SpA
via Gran San Bernardo 12
Busto Arsizio
VA 21052
IT

18-D5-B6 (hex) SMG Holdings LLC
18D5B6 (base 16) SMG Holdings LLC
205 N Michigan Ave
Chicago IL 60601
US

70-F0-96 (hex) Cisco Systems, Inc
70F096 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A4-53-EE (hex) IEEE Registration Authority
A453EE (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

C8-A4-0D (hex) Cooler Master Technology Inc
C8A40D (base 16) Cooler Master Technology Inc
8F., No. 788-1, Zhongzheng Rd., Zhonghe Dist.
New Taipei City New Taipei City 23586
TW

BC-9A-53 (hex) Huawei Device Co., Ltd.
BC9A53 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

DC-27-27 (hex) Huawei Device Co., Ltd.
DC2727 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

F0-42-F5 (hex) Huawei
Device Co., Ltd.
F042F5 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E0-2E-3F (hex) Huawei Device Co., Ltd.
E02E3F (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

00-22-36 (hex) VECTOR SP. Z O.O.
002236 (base 16) VECTOR SP. Z O.O.
KRZEMOWA 6
GDYNIA 81-577
PL

00-13-40 (hex) AD.EL s.r.l.
001340 (base 16) AD.EL s.r.l.
via S. Pertini,5
Martellago VENEZIA 30030
IT

4C-75-25 (hex) Espressif Inc.
4C7525 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

D0-56-BF (hex) AMOSENSE
D056BF (base 16) AMOSENSE
Narutu street 56
SEOUL Sucho gu 06527
KR

50-8E-49 (hex) Xiaomi Communications Co Ltd
508E49 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing
Haidian District 100085
CN

60-8D-26 (hex) Arcadyan Corporation
608D26 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

1C-39-29 (hex) OHSUNG
1C3929 (base 16) OHSUNG
335-4,SANHODAERO,GUMI,GYEONG BUK,KOREA
GUMI GYEONG BUK 730-030
KR

80-B9-7A (hex) eero inc.
80B97A (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

38-42-0B (hex) Sonos, Inc.
38420B (base 16) Sonos, Inc.
614 Chapala St
Santa Barbara CA 93101
US

8C-F3-19 (hex) Siemens Industrial Automation Products Ltd., Chengdu
8CF319 (base 16) Siemens Industrial Automation Products Ltd., Chengdu
Tianyuan Road No.99, High Tech Zone West
Chengdu Sichuan Province 611731
CN

48-70-1E (hex) Texas Instruments
48701E (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

AC-33-28 (hex) Huawei Device Co., Ltd.
AC3328 (base 16) Huawei
Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone

Dongguan Guangdong 523808
CN

78-CB-2C (hex) Join Digital, Inc.
78CB2C (base 16) Join Digital, Inc.
75 E Santa Clara St., 6th Floor
San Jose CA 95113
US

8C-47-6E (hex) IEEE Registration Authority
8C476E (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

74-D6-CB (hex) New H3C Technologies Co., Ltd
74D6CB (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

0C-3A-FA (hex) New H3C Technologies Co., Ltd
0C3AFA (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

B0-0C-D1 (hex) Hewlett Packard
B00CD1 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

2C-F0-5D (hex) Micro-Star INTL CO., LTD.
2CF05D (base 16) Micro-Star INTL CO., LTD.
No.69, Lide
St.,
New Taipei City Taiwan 235
TW

30-A0-23 (hex) ROCK PATH S.R.L
30A023 (base 16) ROCK PATH S.R.L
Via Federico Borromeo 2, 20017 Rho (MI), Italy
Milan 20017
IT

E8-48-B8 (hex) TP-Link Corporation Limited
E848B8 (base 16) TP-Link Corporation Limited

Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

00-02-F4 (hex) PCTEL, Inc.
0002F4 (base 16) PCTEL, Inc.
1331 California Circle
Milpitas CA 95035
US

30-9E-1D (hex) OHSUNG
309E1D (base 16) OHSUNG
335-4,SANHODAERO,GUMI,GYEONG BUK,KOREA
GUMI GYEONG BUK 730-030
KR

68-79-12 (hex) IEEE Registration Authority
687912 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

F8-66-5A (hex) Apple, Inc.
F8665A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

6C-E8-74 (hex) HUAWEI TECHNOLOGIES CO.,LTD
6CE874 (base 16) HUAWEI TECHNOLOGIES
CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-69-F0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C469F0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

BC-99-30 (hex) HUAWEI TECHNOLOGIES CO.,LTD
BC9930 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

60-BE-C4 (hex) Apple, Inc.

60BEC4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F8-B1-DD (hex) Apple, Inc.
F8B1DD (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A8-81-7E (hex) Apple, Inc.
A8817E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

18-B6-CC (hex) We Corporation Inc.
18B6CC (base 16) We Corporation Inc.
201, 33, Deokcheon-ro, Manan-gu
Anyang-si Gyeonggi-do 14088
KR

64-03-7F
(hex) Samsung Electronics Co.,Ltd
64037F (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B4-9D-02 (hex) Samsung Electronics Co.,Ltd
B49D02 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

80-9F-F5 (hex) Samsung Electronics Co.,Ltd
809FF5 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E0-C3-77 (hex) Samsung Electronics Co.,Ltd
E0C377 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

4C-FB-F4 (hex) Optimal Audio Ltd
4CFBF4 (base 16) Optimal Audio Ltd
Century Point, Halifax Rd
High Wycombe HP12 3SL
GB

C0-94-35 (hex) ARRIS Group, Inc.
C09435 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

DC-B7-2E (hex) Xiaomi Communications Co Ltd
DCB72E (base 16) Xiaomi Communications Co Ltd
#019,
9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

F8-6D-73 (hex) Zengge Co., Limited
F86D73 (base 16) Zengge Co., Limited
3/F, B Building, Second Laowei Industrial Zone, Longhua District
Shenzhen Guangdong 518109
CN

E0-2B-E9 (hex) Intel Corporate
E02BE9 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

58-86-94 (hex) EFM Networks
588694 (base 16) EFM Networks
6F, Benposra II 1197-1 Bojeong Giheung Gu
Yong In Kyunggi do 446913
KR

AC-37-28 (hex) Taicang T&W Electronics
AC3728 (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

20-CD-6E (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
20CD6E (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

E8-68-E7 (hex) Espressif Inc.
E868E7
(base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

D0-BC-C1 (hex) WEIFANG GOERTEK ELECTRONICS CO.,LTD
D0BCC1 (base 16) WEIFANG GOERTEK ELECTRONICS CO.,LTD
Gaoxin 2 Road, Free Trade Zone,Weifang,Shandong,261205,P.R.China
Weifang Shandong 261205
CN

B4-0E-DE (hex) Intel Corporate
B40EDE (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

64-79-24 (hex) Huawei Device Co., Ltd.
647924 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

D8-CC-98 (hex) Huawei Device Co., Ltd.
D8CC98 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C8-B6-D3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C8B6D3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan
523808
CN

E0-4B-A6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E04BA6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

DC-4A-9E (hex) IEEE Registration Authority
DC4A9E (base 16) IEEE Registration Authority
445 Hoes Lane

Piscataway NJ 08554
US

C0-33-DA (hex) Shenzhen JRUN Technologies CO., LTD
C033DA (base 16) Shenzhen JRUN Technologies CO., LTD
A Zone,9F,Huilongda Industrial Park,Shuitian Private Industrial Park,Shiyan Street,Bao,an District.
Shenzhen Guangdong 518101
CN

A8-74-84 (hex) zte corporation
A87484 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

FC-8D-3D (hex) Leapfive Tech. Ltd.
FC8D3D (base 16) Leapfive Tech. Ltd.
huaruizhididasha 8ceng
shenzhen guangdong 518057
CN

BC-69-CB (hex) Panasonic Electric Works Networks Co., Ltd.
BC69CB
(base 16) Panasonic Electric Works Networks Co., Ltd.
2-12-7, Higashi-Shinbashi
Minato-Ku Tokyo 105-0021
JP

08-93-56 (hex) HUAWEI TECHNOLOGIES CO.,LTD
089356 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

6C-14-6E (hex) HUAWEI TECHNOLOGIES CO.,LTD
6C146E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

44-E9-68 (hex) HUAWEI TECHNOLOGIES CO.,LTD
44E968 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

DC-B7-FC (hex) Alps Electric (Ireland) Ltd
DCB7FC (base 16) Alps Electric (Ireland) Ltd

MOUNT LEADER INDUSTRIAL ESTATE
MILLSTREET CO. CORK P51 XC56
IE

AC-FA-A5 (hex) digitron
ACFAA5 (base 16) digitron
tehnopark A -701, 697 PanGyo-ro, Bundong
Seongnam GyeongGiDO
13511
KR

78-C9-5E (hex) Midmark RTLS
78C95E (base 16) Midmark RTLS
2600 Millercreek Rd
Traverse City MI 49684
US

40-14-AD (hex) Huawei Device Co., Ltd.
4014AD (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

44-CE-3A (hex) Jiangsu Huacun Electronic Technology Co., Ltd.
44CE3A (base 16) Jiangsu Huacun Electronic Technology Co., Ltd.
C4, 9th Floor, 266 New Century Avenue, Tongzhou District
Nantong City Jiangsu Province 226300
CN

9C-1E-A4 (hex) Renesas Electronics (Penang) Sdn. Bhd.
9C1EA4 (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

4C-EF-56 (hex) Shenzhen Sundray Technologies Company Limited
4CEF56 (base 16) Shenzhen Sundray Technologies Company Limited
5th Floor, Block A4, Nanshan ipark,NO.1001 Xue Yuan Road, Nanshan District, Shenzhen 518055, P.R. China
Shenzhen
Guangdong 518057
CN

E8-4F-4B (hex) Shenzhen Delos Electronic Co., Ltd
E84F4B (base 16) Shenzhen Delos Electronic Co., Ltd
Rm 603, Tower B, Galaxy World Building, No.1 Yabao Road,Longgang District,Shenzhen,P.R.China.
shenzhen guangdong 518000
CN

B0-4A-39 (hex) Beijing Roborock Technology Co., Ltd.
B04A39 (base 16) Beijing Roborock Technology Co., Ltd.
Floor 6,Building C,Kangjian Baosheng Plaza,No. 8 Heiquan Road,Haidian District
Beijing Beijing 100085
CN

A4-F9-E4 (hex) AirVine Scientific, Inc.
A4F9E4 (base 16) AirVine Scientific, Inc.
1500 Wyatt Drive, Suite 9
Santa Clara CA 95054
US

F4-4F-D3 (hex) shenzhen hemuwei technology co.,ltd
F44FD3 (base 16) shenzhen hemuwei technology co.,ltd
220, Building C, IoT Industrial Park, Bantian Street, Longgang District
shenzhen guangdong 518000
CN

00-1F-B8 (hex) Universal Remote Control, Inc.
001FB8 (base 16) Universal Remote Control,
Inc.
500 Mamaroneck Avenue
Harrison NY 10528
US

80-03-84 (hex) Ruckus Wireless
800384 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

D8-37-3B (hex) Shenzhen Jingxun Software Telecommunication Technology Co.,Ltd
D8373B (base 16) Shenzhen Jingxun Software Telecommunication Technology Co.,Ltd
3/F,A5 Building Zhiyuan Community No.1001,Xueyuan Road Nanshan District
Shenzhen Guangdong 518055
CN

A8-30-1C (hex) Qingdao Intelligent&Precise Electronics Co.,Ltd.
A8301C (base 16) Qingdao Intelligent&Precise Electronics Co.,Ltd.
No.218 Qianwangang Road
Qingdao Shangdong 266510
CN

FC-45-C3 (hex) Texas Instruments
FC45C3 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

AC-6A-A3 (hex) Shenzhen Kertong Technology Co.,Ltd
AC6AA3 (base 16) Shenzhen Kertong Technology Co.,Ltd
405,Fuyuan Building ,District 45 Bao'an
Shenzhen Guangdong 518101
CN

3C-E0-38
(hex) Omnifi Inc.
3CE038 (base 16) Omnifi Inc.
6701 Koll Center Parkway, Suite 250
Pleasanton CA 94566
US

84-93-A0 (hex) Huawei Device Co., Ltd.
8493A0 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

9C-8E-9C (hex) Huawei Device Co., Ltd.
9C8E9C (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

FC-69-8C (hex) ANDREAS STIHL AG & Co. KG
FC698C (base 16) ANDREAS STIHL AG & Co. KG
Badstraße 115
Waiblingen 71336
DE

6C-2D-24 (hex) Zhen Shi Information Technology (Shanghai) Co., Ltd.
6C2D24 (base 16) Zhen Shi Information Technology (Shanghai) Co., Ltd.
5F, Building 3?No. 401 Caobao Road, Xuhui District, Shanghai, China
Shanghai Shanghai 200233
CN

7C-78-B2 (hex) Wyze Labs Inc
7C78B2 (base 16) Wyze Labs Inc
4030 Lake Washington Boulevard NE
Kirkland
WA 98033
US

00-60-E9 (hex) ATOP TECHNOLOGIES, INC.
0060E9 (base 16) ATOP TECHNOLOGIES, INC.
SUITE 305, NO. 47, PARK AVENUE II,

HSINCHU 30047
TW

E4-C3-2A (hex) TP-LINK TECHNOLOGIES CO.,LTD.
E4C32A (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

90-9A-4A (hex) TP-LINK TECHNOLOGIES CO.,LTD.
909A4A (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

BC-97-89 (hex) Huawei Device Co., Ltd.
BC9789 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

68-45-71 (hex) Huawei Device Co., Ltd.
684571 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong
523808
CN

AC-12-2F (hex) Fantasia Trading LLC
AC122F (base 16) Fantasia Trading LLC
5350 Ontario Mills Pkwy, Suite 100
Ontario CA 91764
US

60-70-72 (hex) SHENZHEN HONGDE SMART LINK TECHNOLOGY CO., LTD
607072 (base 16) SHENZHEN HONGDE SMART LINK TECHNOLOGY CO., LTD
Fu Qian Road, Longhua district
ShenZhen GuangDong province 518000
CN

B8-AE-1C (hex) Smart Cube., Ltd
B8AE1C (base 16) Smart Cube., Ltd
13F.-3, No. 78, Sec. 2, Anhe Rd., Da’an Dist., Taipei City 106, Taiwan (R.O.C.)
Taipei 106
TW

14-1B-30 (hex) Shenzhen Yipingfang Network Technology Co., Ltd.
141B30 (base 16) Shenzhen Yipingfang Network Technology Co., Ltd.

21 / F, Kangjia R & D building, No.28, Keji South 12th Road, Nanshan District, Shenzhen City, Guangdong Province, China
Shenzhen Nanshan District 518000
CN

B8-47-7A (hex) Dasan Electron Co., Ltd.
B8477A (base 16) Dasan Electron Co., Ltd.
705 HaeAn-Ro #307, SangRok-Gu
Ansan
KyungKi 15588
KR

B4-AD-A3 (hex) Guangzhou Shiyuan Electronic Technology Company Limited
B4ADA3 (base 16) Guangzhou Shiyuan Electronic Technology Company Limited
No.6, 4th Yunpu Road, Yunpu industry District
Guangzhou Guangdong 510530
CN

6C-AD-AD (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
6CADAD (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

CC-E0-DA (hex) Baidu Online Network Technology (Beijing) Co., Ltd
CCE0DA (base 16) Baidu Online Network Technology (Beijing) Co., Ltd
Baidu Campus, No.10 Shangdi 10th Street, Haidian District
Beijing 100085
CN

40-8C-4C (hex) Shenzhen MiaoMing Intelligent Technology Co.,Ltd
408C4C (base 16) Shenzhen MiaoMing Intelligent Technology Co.,Ltd
Chudong science and technology park, 111 shaxin road, tangxia town,
dongguan city guangdong province
523710
CN

D4-48-2D (hex) Shenzhen Deejoy Lighting Technology Co.,Ltd.
D4482D (base 16) Shenzhen Deejoy Lighting Technology Co.,Ltd.
3rd Floor, Building B3, Xujingchang Industrial Park,Xinhe Community Fuyong Town,Baoan District
Shenzhen Guangdong 518103
CN

78-E3-DE (hex) Apple, Inc.
78E3DE (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D0-D2-3C (hex) Apple, Inc.
D0D23C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

64-D2-C4 (hex) Apple, Inc.
64D2C4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

DC-52-85 (hex) Apple, Inc.
DC5285 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E8-81-52 (hex) Apple, Inc.
E88152 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-F3-BC (hex) Liteon Technology Corporation
D8F3BC (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New
Taipei City Taiwan 23585
TW

F4-6F-ED (hex) Fiberhome Telecommunication Technologies Co.,LTD
F46FED (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

94-B9-7E (hex) Espressif Inc.
94B97E (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

64-23-15 (hex) Huawei Device Co., Ltd.
642315 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808

CN

A4-C7-4B (hex) Huawei Device Co., Ltd.
A4C74B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

90-81-58 (hex) Apple, Inc.
908158 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-F8-AF (hex) DAONTEC
D8F8AF (base 16) DAONTEC
219, Gasan digital 1-ro
Seoul KS013
KR

E4-84-2B (hex) HANGZHOU SOFTEL
OPTIC CO., LTD
E4842B (base 16) HANGZHOU SOFTEL OPTIC CO., LTD
101 BINKANG ROAD, BINJIANG DISTRICT
HANGZHOU ZHEJIANG 310052
CN

94-02-6B (hex) Optictimes Co.,Ltd
94026B (base 16) Optictimes Co.,Ltd
Hangzhou City, Zhejiang Province
Hangzhou Zhejiang 310023
CN

08-42-96 (hex) Mobile Technology Solutions LLC
084296 (base 16) Mobile Technology Solutions LLC
20379 Bannister Dr.
Macomb MI 48044
US

34-EF-B6 (hex) Edgecore Networks Corporation
34EFB6 (base 16) Edgecore Networks Corporation
1 Creation RD 3.
Hsinchu 30077
TW

E8-74-C7 (hex) Sentinhealth
E874C7 (base 16) Sentinhealth
5, Avenude du Grand Sablon

LA TRONCHE 38700
FR

18-FD-CB (hex) IEEE Registration Authority
18FDCB (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

44-87-DB (hex) Tymphany Acoustic Technology (Huizhou) Co., Ltd.
4487DB (base 16) Tymphany Acoustic Technology
(Huizhou) Co., Ltd.
Tymphany Acoustic Technology (Huizhou) Co., Ltd.
Huizhou Guangdong 516223
CN

C8-17-39 (hex) ITEL MOBILE LIMITED
C81739 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

58-D0-61 (hex) HUAWEI TECHNOLOGIES CO.,LTD
58D061 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-90-23 (hex) ZILOG INC.
009023 (base 16) ZILOG INC.
910 East Hamilton Ave.
Campbell CA 95008
US

00-1C-7B (hex) Castlenet Technology Inc.
001C7B (base 16) Castlenet Technology Inc.
5F., No. 10, Daye Rd., Beitou Dist.
Taipei City 112030
TW

B0-FE-E5 (hex) Huawei Device Co., Ltd.
B0FEE5 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

04-C1-D8 (hex) Huawei

Device Co., Ltd.
04C1D8 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C8-BC-9C (hex) Huawei Device Co., Ltd.
C8BC9C (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

90-CC-DF (hex) Intel Corporate
90CCDF (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B8-D3-09 (hex) Cox Communications, Inc
B8D309 (base 16) Cox Communications, Inc
6205 Peachtree Dunwoody Rd
Atlanta GA 30328
US

08-5B-D6 (hex) Intel Corporate
085BD6 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

6C-BA-B8 (hex) Sagemcom Broadband SAS
6CBAB8 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

E0-D4-64 (hex) Intel Corporate
E0D464 (base 16) Intel Corporate
Lot
8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C0-F6-C2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C0F6C2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

68-93-20 (hex) New H3C Technologies Co., Ltd
689320 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

94-54-CE (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
9454CE (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

38-8A-BE (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
388ABE (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

04-7E-23 (hex) China Mobile IOT Company Limited
047E23 (base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area
Chongqing Chongqing
401336
CN

14-CC-B3 (hex) AO GK NATEKS
14CCB3 (base 16) AO GK NATEKS
Kamenshiki B. str., 4
Moscow 115172
RU

60-07-7C (hex) Jala Group
60077C (base 16) Jala Group
Melchor Pérez de Holguín N 2643
Cochabamba Cochabamba 0000
BO

8C-8D-28 (hex) Intel Corporate
8C8D28 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

34-3E-A4 (hex) Ring LLC
343EA4 (base 16) Ring LLC
1523 26th St
Santa Monica CA 90404

US

54-84-DC (hex) zte corporation
5484DC (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

38-54-9B (hex) zte corporation
38549B (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

DC-CD-2F (hex) Seiko Epson Corporation
DCCD2F (base 16) Seiko Epson Corporation
2070 Kotobuki Koaka
Matsumoto-shi Nagano-ken
399-8702
JP

60-98-66 (hex) Texas Instruments
609866 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

D8-77-8B (hex) Intelbras
D8778B (base 16) Intelbras
BR 101, KM 210
São Jose Santa Catarina 88104-800
BR

30-C9-AB (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
30C9AB (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

00-7E-56 (hex) China Dragon Technology Limited
007E56 (base 16) China Dragon Technology Limited
B4 Bldg.Haoshan 1st Industry Park,
Shenzhen Guangdong 518104
CN

3C-1A-9E (hex) VitalThings AS
3C1A9E (base 16) VitalThings AS
Jarlsoveien 48

Tonsberg 3124
NO

C8-84-A1 (hex) Cisco Systems, Inc
C884A1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

08-3A-F2 (hex) Espressif
Inc.
083AF2 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

74-3A-20 (hex) New H3C Technologies Co., Ltd
743A20 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

C4-D7-38 (hex) Huawei Device Co., Ltd.
C4D738 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

00-08-F6 (hex) Sumitomo Electric Industries, Ltd
0008F6 (base 16) Sumitomo Electric Industries, Ltd
1-1-3, Shimaya, Konohana-ku
Osaka 554-0024
JP

00-0B-A2 (hex) Sumitomo Electric Industries, Ltd
000BA2 (base 16) Sumitomo Electric Industries, Ltd
1-1-3, Shimaya, Konohana-ku
Osaka 554-0024
JP

00-00-5F (hex) Sumitomo Electric Industries, Ltd
00005F (base 16) Sumitomo Electric Industries, Ltd
1-1-3, Shimaya, Konohana-ku
Osaka 554-0024
JP

00-1E-68

(hex) Quanta Computer Inc.
001E68 (base 16) Quanta Computer Inc.
NO. 211, WEN HWA 2RD., KUEI SHAN HSIANG
TAIPEI TAO YUAN SHIEN 333
TW

18-EC-E7 (hex) BUFFALO.INC
18ECE7 (base 16) BUFFALO.INC
AKAMONDORI Bld.,30-20,Ohsu 3-chome,Naka-ku
Nagoya Aichi Pref. 460-8315
JP

D4-AF-F7 (hex) Arista Networks
D4AFF7 (base 16) Arista Networks
5453 Great America Parkway
Santa Clara CA 95054
US

28-D1-27 (hex) Beijing Xiaomi Mobile Software Co., Ltd
28D127 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

30-A4-52 (hex) Arrival Elements BV
30A452 (base 16) Arrival Elements BV
M. Keynesplein 12-46
Amsterdam 1066 EP
NL

F4-69-D5 (hex) IEEE Registration Authority
F469D5 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

8C-C5-B4
(hex) Sagemcom Broadband SAS
8CC5B4 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

F8-1B-04 (hex) Zhong Shan City Richsound Electronic Industrial Ltd
F81B04 (base 16) Zhong Shan City Richsound Electronic Industrial Ltd
Qunle Industrial Area,East ShaGang Road,GangKou ZhongShan,GuangDong,China
ZhongShan GuangDong 528400
CN

18-D6-1C (hex) Shenzhen TINNO Mobile Technology Corp.
18D61C (base 16) Shenzhen TINNO Mobile Technology Corp.
Building, No.33, Xiandong Rd, Xili
Nanshan District, Shenzhen PRC 518053
CN

54-48-E6 (hex) Beijing Xiaomi Mobile Software Co., Ltd
5448E6 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
Xiaomi Campus, No. 33 Xi erqi Middle Road, Haidian District
Beijing Beijing 100085
CN

D8-8C-79 (hex) Google, Inc.
D88C79 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

10-34-1B (hex) Spacelink
10341B
(base 16) Spacelink
8830 Complex dr
San Diego CA 92123
US

1C-D6-BE (hex) Wistron Neweb Corporation
1CD6BE (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

F8-64-65 (hex) Anova Applied Electronics, Inc.
F86465 (base 16) Anova Applied Electronics, Inc.
580 Howard Street, #403
san francisco CA 94105
US

90-A9-35 (hex) JWEntertainment
90A935 (base 16) JWEntertainment
3f 10 Dwitgol-ro
Gwacheon-si Gyeonggi-do 13814
KR

60-D4-E9 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
60D4E9 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860

CN

C8-68-DE (hex) Huawei Device Co., Ltd.
C868DE (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

D0-0D-F7 (hex) Huawei Device Co., Ltd.
D00DF7
(base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

48-05-E2 (hex) Huawei Device Co., Ltd.
4805E2 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

28-68-D2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
2868D2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C8-E2-65 (hex) Intel Corporate
C8E265 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

2C-60-0C (hex) Quanta Computer Inc.
2C600C (base 16) Quanta Computer Inc.
No.211, Wen Hwa 2nd Rd
Taoyuan Taiwan 33377
TW

00-23-8B (hex) Quanta Computer Inc.
00238B (base 16) Quanta Computer Inc.
NO. 211, WEN HWA 2RD.,KUEI SHAN HSIANG, TAO YUAN SHIEN,
TAIPEI TAIWAN 333
TW

30-C5-0F (hex) HUAWEI TECHNOLOGIES CO.,LTD
30C50F

(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

BC-03-A7 (hex) MFP MICHELIN
BC03A7 (base 16) MFP MICHELIN
23 place des Carmes Dechaux
Clermont-Ferrand 63000
FR

CC-DB-93 (hex) Cisco Systems, Inc
CCDB93 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

1C-E6-1D (hex) Samsung Electronics Co.,Ltd
1CE61D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

44-1C-7F (hex) Motorola Mobility LLC, a Lenovo Company
441C7F (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

00-B8-B6 (hex) Motorola Mobility LLC, a Lenovo Company
00B8B6 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

80-EA-07 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
80EA07 (base
16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

04-A2-F3 (hex) Fiberhome Telecommunication Technologies Co.,LTD
04A2F3 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

80-12-DF (hex) Shenzhen SuperElectron Technology Co.,Ltd.
8012DF (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

2C-6F-51 (hex) Herospeed Digital Technology Limited
2C6F51 (base 16) Herospeed Digital Technology Limited
728 Kaichuang Avenue,Huangpu Distric
Guangzhou Guangdong 510530
CN

98-2F-F8 (hex) Huawei Device Co., Ltd.
982FF8 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong
523808
CN

40-DC-A5 (hex) Huawei Device Co., Ltd.
40DCA5 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

10-E7-7A (hex) STMicrolectronics International NV
10E77A (base 16) STMicrolectronics International NV
39, Chemin du Champ-des-Filles
Geneva, Plan-les-Quates 1228
CH

00-D0-B6 (hex) CRESCENT NETWORKS, INC.
00D0B6 (base 16) CRESCENT NETWORKS, INC.
201 RIVERNECK ROAD
CHELMSFORD MA 01842
US

2C-A0-42 (hex) Huawei Device Co., Ltd.
2CA042 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C0-83-C9 (hex) Huawei Device Co., Ltd.
C083C9 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

10-4F-58 (hex) Aruba, a Hewlett Packard Enterprise Company
104F58 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333
Scott Blvd
Santa Clara CA 95054
US

98-2C-BC (hex) Intel Corporate
982CBC (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

20-50-E7 (hex) AMPAK Technology,Inc.
2050E7 (base 16) AMPAK Technology,Inc.
3F, No.15-1 Zhonghua Road, Hsinchu Industrail Park, Hukou,
Hsinchu Hsinchu,Taiwan R.O.C. 30352
TW

BC-17-B8 (hex) Intel Corporate
BC17B8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

CC-D0-83 (hex) Aruba, a Hewlett Packard Enterprise Company
CCD083 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

E4-3D-1A (hex) Broadcom Limited
E43D1A (base 16) Broadcom Limited
15191 Alton Parkway
Irvine CA 92618
US

70-18-A7 (hex) Cisco Systems, Inc
7018A7 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

24-F1-50 (hex) Guangzhou Qi'an
Technology Co., Ltd.
24F150 (base 16) Guangzhou Qi'an Technology Co., Ltd.
No. 3, Dasonggang, Jiangnan Avenue Middle Road, Haizhu District, Guangzhou (office only)

Guangzhou Guangdong 510220
CN

08-FA-79 (hex) vivo Mobile Communication Co., Ltd.
08FA79 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

8C-5E-BD (hex) Huawei Device Co., Ltd.
8C5EBD (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C0-1C-30 (hex) Shenzhen WIFI-3L Technology Co.,Ltd
C01C30 (base 16) Shenzhen WIFI-3L Technology Co.,Ltd
East 5 Floor,B Building, WeiHao Technology Park,Sunny Indusrtrial zone, Xili Town, Nanshan District
Shenzhen Guangdong 518055
CN

D8-C6-78 (hex) MitraStar Technology Corp.
D8C678 (base 16) MitraStar Technology Corp.
No. 6, Innovation Road II,
Hsinchu 300
TW

4C-C5-3E (hex) Zyxel
Communications Corporation
4CC53E (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

EC-C0-1B (hex) HUAWEI TECHNOLOGIES CO.,LTD
ECC01B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

98-44-CE (hex) HUAWEI TECHNOLOGIES CO.,LTD
9844CE (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F0-9B-B8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F09BB8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

44-BB-3B (hex) Google, Inc.
44BB3B (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

14-C1-4E (hex) Google, Inc.
14C14E (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

D8-C0-A6
(hex) AzureWave Technology Inc.
D8C0A6 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

60-7E-C9 (hex) Apple, Inc.
607EC9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

10-8B-6A (hex) Antailiye Technology Co.,Ltd
108B6A (base 16) Antailiye Technology Co.,Ltd
7/F,Zhengjiyuan Buiding,2 Road,Qianjing, Xixiang, Baoan District,Shenzhen
SHEN ZHEN GUANGDONG 518000
CN

98-A9-42 (hex) Guangzhou Tozed Kangwei Intelligent Technology Co., LTD
98A942 (base 16) Guangzhou Tozed Kangwei Intelligent Technology Co., LTD
Room 1301, NO. 37 Jinlong , Nansha Street, Xiangjiang Financial Business Center, Nansha District
Guangzhou Guangdong 511458
CN

4C-21-13 (hex) Nokia Shanghai Bell Co., Ltd.
4C2113 (base 16) Nokia Shanghai Bell Co., Ltd.
No.388 Ning Qiao Road,Jin Qiao Pudong Shanghai
Shanghai 201206
CN

DC-50-3A (hex) Nanjing Ticom

Tech Co., Ltd.
DC503A (base 16) Nanjing Ticom Tech Co., Ltd.
No.35 Fenghui Road, Yuhuatai District
Nanjing Jiangsu 210039
CN

18-47-3D (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
18473D (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

94-25-33 (hex) HUAWEI TECHNOLOGIES CO.,LTD
942533 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

60-56-61 (hex) IXECLOUD Tech
605661 (base 16) IXECLOUD Tech
118, 3rd Floor, Building 195, Area 1 Beiwa Road,Haidian District, Beijing
Beijing 100000
CN

70-69-79 (hex) IEEE Registration Authority
706979 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

D4-77-B2 (hex) Netix Global B.V.
D477B2 (base 16) Netix Global B.V.
1119RB Schipol - Rijk, Beechavenue,
113, Schipol,
Amsterdam NL 1119
NL

FC-60-9B (hex) New H3C Technologies Co., Ltd
FC609B (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

E8-A1-F8 (hex) zte corporation
E8A1F8 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

30-42-40 (hex) zte corporation
304240 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

14-C8-8B (hex) Apple, Inc.
14C88B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

EC-26-51 (hex) Apple, Inc.
EC2651 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

18-3E-EF (hex) Apple, Inc.
183EEF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

80-2D-BF (hex) Cisco Systems, Inc
802DBF (base 16) Cisco Systems,
Inc
80 West Tasman Drive
San Jose CA 94568
US

70-8C-BB (hex) MIMODISPLAYKOREA
708CBB (base 16) MIMODISPLAYKOREA
#812, 19, Ojeongongeop-gil
Uiwang-si Gyeonggi-do 16072
KR

B8-48-AA (hex) EM Microelectronic
B848AA (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

98-7E-CA (hex) Inventus Power Eletronica do Brasil LTDA
987ECA (base 16) Inventus Power Eletronica do Brasil LTDA
Av Buriti, 4285 Distrito Industrial
Manaus Amazonas 69075000

BR

28-B3-71 (hex) Ruckus Wireless
28B371 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

D4-F8-29 (hex) Sagemcom Broadband SAS
D4F829 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

E0-62-34 (hex) Texas Instruments
E06234 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

F8-6B-D9 (hex) Cisco
Systems, Inc
F86BD9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

C0-14-FE (hex) Cisco Systems, Inc
C014FE (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

7C-AD-4F (hex) Cisco Systems, Inc
7CAD4F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

0C-14-D2 (hex) China Mobile Group Device Co.,Ltd.
0C14D2 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

50-38-2F (hex) ASE Group Chung-Li
50382F (base 16) ASE Group Chung-Li
No 550,Chung-Hwa Road Section1

Chung-Li , Taoyuan Taoyuan 32016
TW

F8-AC-65 (hex) Intel Corporate
F8AC65 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-19-F4 (hex) Convergens Oy Ltd
0019F4 (base 16) Convergens Oy Ltd
Westendintie 99 B
Espoo Uusimaa FIN-02160
FI

24-4B-FE
(hex) ASUSTek COMPUTER INC.
244BFE (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

7C-DD-E9 (hex) ATOM tech Inc.
7CDDE9 (base 16) ATOM tech Inc.
Sky Menor Yokohama 422, 2-11-2 Takashima, Nishi-ku
Yokohama-shi Kanagawa 220-0011
JP

08-AC-C4 (hex) FMTech
08ACC4 (base 16) FMTech
yuehai
ShenZhen 518000
CN

6C-2F-8A (hex) Samsung Electronics Co.,Ltd
6C2F8A (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F0-B0-22 (hex) TOHO Electronics INC.
F0B022 (base 16) TOHO Electronics INC.
1-13-21 Tanashioda, Chuo-Ku
Sagamihara-City Kanagawa 252-0245
JP

F8-2F-65 (hex) Huawei Device Co., Ltd.
F82F65 (base 16) Huawei Device Co., Ltd.

No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

08-31-A4 (hex) Huawei Device Co., Ltd.
0831A4 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

A8-E9-78 (hex) Huawei Device Co., Ltd.
A8E978 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

44-F4-E7 (hex) Cohesity Inc
44F4E7 (base 16) Cohesity Inc
300 park ave
san jose CA 95110
US

E0-F6-B5 (hex) Nintendo Co.,Ltd
E0F6B5 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

40-B3-1E (hex) Universal Electronics, Inc.
40B31E (base 16) Universal Electronics, Inc.
201 E. Sandpointe Ave
Santa Ana CA 92707
US

88-40-33 (hex) HUAWEI TECHNOLOGIES CO.,LTD
884033 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-8A-C6 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
948AC6 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

2C-9F-FB (hex) Wistron Neweb Corporation
2C9FFB (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

84-CC-A8 (hex) Espressif Inc.
84CCA8 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

E0-D4-62 (hex) Huawei Device Co., Ltd.
E0D462 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

90-98-38 (hex) Huawei Device Co., Ltd.
909838 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

44-8D-BF (hex) Rhino Mobility LLC
448DBF (base 16) Rhino Mobility LLC
8 The Green, Suite A
Dover DE 19901
US

C0-A6-6D (hex) Inspur Group Co., Ltd.
C0A66D (base
16) Inspur Group Co., Ltd.
No.1036 Langchao Rd.
Jinan Shandong 250101
CN

00-20-60 (hex) ALCATEL ITALIA S.p.A.
002060 (base 16) ALCATEL ITALIA S.p.A.
VIA TRENTO, 30
20059 VIMERCATE (MI)
IT

C8-83-14 (hex) Tempo Communications
C88314 (base 16) Tempo Communications
1390 Aspen Way
Vista CA 92081
US

24-C8-D3 (hex) McWane India Pvt Ltd
24C8D3 (base 16) McWane India Pvt Ltd
483, Kamaraj Road, Upplipalayam
Coimbatore Tamil Nadu 641015
IN

AC-7A-56 (hex) Cisco Systems, Inc
AC7A56 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

D8-91-36 (hex) Dover Fueling Solutions
D89136 (base 16) Dover Fueling Solutions
Industrieweg 5
Bladel NBR 5531AD
NL

FC-95-6A (hex) OCTAGON SYSTEMS CORP.
FC956A (base 16) OCTAGON SYSTEMS CORP.
7403 Church Ranch Blvd
Westminster CO 80021
US

00-06-2A (hex) Cisco Systems, Inc
00062A (base 16) Cisco
Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

98-ED-5C (hex) Tesla,Inc.
98ED5C (base 16) Tesla,Inc.
3500 Deer Creek Road
Palo Alto CA 94304
US

C4-42-68 (hex) CRESTRON ELECTRONICS, INC.
C44268 (base 16) CRESTRON ELECTRONICS, INC.
15 Volvo Drive
Rockleigh NJ 07647
US

40-F5-20 (hex) Espressif Inc.
40F520 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203

CN

78-AA-82 (hex) New H3C Technologies Co., Ltd
78AA82 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

38-F6-01 (hex) Solid State Storage Technology Corporation
38F601 (base 16) Solid State Storage Technology Corporation
21F, 392, Ruey Kuang Road, Neihu
Taipei 11492
TW

10-70-FD (hex) Mellanox Technologies, Inc.
1070FD (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite
100
Sunnyvale CA 94085
US

E8-98-6D (hex) Palo Alto Networks
E8986D (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

7C-89-C1 (hex) Palo Alto Networks
7C89C1 (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

B8-E3-EE (hex) Universal Electronics, Inc.
B8E3EE (base 16) Universal Electronics, Inc.
201 E. Sandpointe Ave
Santa Ana CA 92707
US

84-D6-C5 (hex) SolarEdge Technologies
84D6C5 (base 16) SolarEdge Technologies
1 Abba Eban St.
Herzelia 46725
IL

54-71-DD (hex) Huawei Device Co., Ltd.
5471DD (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone

Dongguan Guangdong 523808
CN

08-C0-EB (hex) Mellanox Technologies, Inc.
08C0EB (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

E4-E1-12 (hex) Texas Instruments
E4E112 (base 16) Texas
Instruments
12500 TI Blvd
Dallas TX 75243
US

34-14-B5 (hex) Texas Instruments
3414B5 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

D0-03-EB (hex) Texas Instruments
D003EB (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

90-56-FC (hex) TECNO MOBILE LIMITED
9056FC (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

B8-63-92 (hex) GUANGDONG GENIUS TECHNOLOGY CO., LTD.
B86392 (base 16) GUANGDONG GENIUS TECHNOLOGY CO., LTD.
No.168, Middle Road Of East Gate
Xiaobian Community Chang'an Town 523851
CN

68-B9-D3 (hex) Shenzhen Trolink Technology CO, LTD
68B9D3 (base 16) Shenzhen Trolink Technology CO, LTD
201 B building 4 shijie, Chashu industry 505 block, Baoan airport Sanwei community, Hangcheng street Baoan area.
Shenzhen
GuangDong 518000
CN

B8-C6-AA (hex) Earda Technologies co Ltd
B8C6AA (base 16) Earda Technologies co Ltd
Block A,Lianfeng Creative Park, #2 Jisheng Rd., Nansha District
Guangzhou Guangdong 511455
CN

54-AE-D0 (hex) DASAN Networks, Inc.
54AED0 (base 16) DASAN Networks, Inc.
DASAN Tower, 49, Daewangpangyo-ro, 644 Beon-gil, Bundang-gu
Seongnam-si Gyeonggi-do 13493
KR

6C-F7-12 (hex) Nokia Solutions and Networks GmbH & Co. KG
6CF712 (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

64-09-AC (hex) TCT mobile ltd
6409AC (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

24-B6-57 (hex) Cisco Systems, Inc
24B657 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

5C-55-78 (hex) iryx corp
5C5578 (base 16) iryx corp
14 Hughes
Irvine
CA 92618
US

18-9E-2C (hex) Huawei Device Co., Ltd.
189E2C (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

94-DB-56 (hex) Sony Home Entertainment&Sound Products Inc
94DB56 (base 16) Sony Home Entertainment&Sound Products Inc
Sony City Osaki 2-10-1 Osaki Shinagawa-ku
Tokyo Japan 141-8610

JP

38-22-E2 (hex) HP Inc.
3822E2 (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

08-BF-A0 (hex) Samsung Electronics Co.,Ltd
08BFA0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

70-1F-3C (hex) Samsung Electronics Co.,Ltd
701F3C (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

48-7A-F6 (hex) NCS ELECTRICAL SDN BHD
487AF6 (base 16) NCS ELECTRICAL SDN BHD
NO. 20, 22, 24, 26, JALAN 1/3, RAWANG INTEGRATED INDUSTRIAL PARK, 48000 Rawang Selangor, MALAYSIA
RAWANG
SELANGOR 48000
MY

48-6E-70 (hex) Zhejiang Tmall Technology Co., Ltd.
486E70 (base 16) Zhejiang Tmall Technology Co., Ltd.
Ali Center,No.3331 Keyuan South RD (Shenzhen bay), Nanshan District, Shenzhen Guangdong province
Shenzhen GuangDong 518000
CN

60-1D-9D (hex) Sichuan AI-Link Technology Co., Ltd.
601D9D (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou, Industrial Park
Mianyang Sichuan 622650
CN

3C-7D-0A (hex) Apple, Inc.
3C7D0A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-5F-77 (hex) Telink Semiconductor (Shanghai) Co., Ltd.
D85F77 (base 16) Telink Semiconductor (Shanghai) Co., Ltd.

No. 1500 Zuchongzhi Rd, Building #3
Shanghai 201203
CN

2C-97-ED (hex) Sony Imaging Products & Solutions Inc.
2C97ED (base 16) Sony Imaging Products & Solutions Inc.
konan 1-7-1
minato-ku Tokyo 108-0075
JP

18-8A-6A (hex) AVPro Global Hldgs
188A6A
(base 16) AVPro Global Hldgs
2222 E 52nd Steeet N
Sioux Falls SD 57104
US

D4-8A-39 (hex) Samsung Electronics Co.,Ltd
D48A39 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E4-F3-C4 (hex) Samsung Electronics Co.,Ltd
E4F3C4 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

9C-2F-4E (hex) zte corporation
9C2F4E (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

D8-A8-C8 (hex) zte corporation
D8A8C8 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

20-82-6A (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
20826A (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

B8-90-47 (hex) Apple, Inc.

B89047 (base
16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

90-9C-4A (hex) Apple, Inc.
909C4A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

90-8C-43 (hex) Apple, Inc.
908C43 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-10-90 (hex) New H3C Technologies Co., Ltd
F01090 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

E4-26-86 (hex) DWnet Technologies(Suzhou) Corporation
E42686 (base 16) DWnet Technologies(Suzhou) Corporation
No.8,Tangzhuang Road, Suzhou Industrial Park, Jiangsu, China
Suzhou 21500
CN

0C-37-96 (hex) BIZLINK TECHNOLOGY, INC.
0C3796 (base 16) BIZLINK TECHNOLOGY, INC.
47211 BAYSIDE PARKWAY
Fremont CA 94538
US

38-EB-47 (hex) HUAWEI TECHNOLOGIES CO.,LTD
38EB47 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology
Park
Dongguan 523808
CN

10-C3-AB (hex) HUAWEI TECHNOLOGIES CO.,LTD
10C3AB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

28-11-EC (hex) HUAWEI TECHNOLOGIES CO.,LTD
2811EC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-69-2D (hex) Sunnovo International Limited
00692D (base 16) Sunnovo International Limited
1717 Haitai Building
Beijing Beijing 100083
CN

F4-03-2A (hex) Amazon Technologies Inc.
F4032A (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

64-62-66 (hex) IEEE Registration Authority
646266 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

B4-15-7E (hex) Celona Inc.
B4157E (base 16) Celona Inc.
10061, Bubb Road Suite 300
Cupertino CA 95014
US

64-5E-2C
(hex) IRay Technology Co., Ltd.
645E2C (base 16) IRay Technology Co., Ltd.
11th Guiyang St.,
Yantai Shandong 264000
CN

B0-B1-94 (hex) zte corporation
B0B194 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

18-D9-8F (hex) Huawei Device Co., Ltd.
18D98F (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808

CN

14-77-40 (hex) Huawei Device Co., Ltd.
147740 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

90-43-E2 (hex) Cornami, Inc
9043E2 (base 16) Cornami, Inc
300 Orchard City Dr, Suite 131
Campbell CA 95008
US

9C-28-F7 (hex) Xiaomi Communications Co Ltd
9C28F7 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

10-52-1C
(hex) Espressif Inc.
10521C (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

84-68-C8 (hex) TOTOLINK TECHNOLOGY INT‘L LIMITED
8468C8 (base 16) TOTOLINK TECHNOLOGY INT‘L LIMITED
ROOM 702,7/F SPA CENTER NO 53055 LOCKHART ROAD
WAN CHAI 999077
HK

3C-57-31 (hex) Cisco Systems, Inc
3C5731 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

9C-FC-E8 (hex) Intel Corporate
9CFCE8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D8-0B-CB (hex) Telink Semiconductor (Shanghai) Co., Ltd.
D80BCB (base 16) Telink Semiconductor (Shanghai) Co., Ltd.
No. 1500 Zuchongzhi Rd, Building #3

Shanghai 201203
CN

6C-42-AB (hex) Subscriber Networks, Inc.
6C42AB (base 16) Subscriber Networks, Inc.
148 W. State Street
Kennett Square PA 19348
US

64-F6-F7 (hex) Anhui
Dynamic Power Co., Ltd.
64F6F7 (base 16) Anhui Dynamic Power Co., Ltd.
NO.20 Jinniu Mid Road,
Xuancheng Anhui 242100
CN

94-1C-56 (hex) Actiontec Electronics, Inc
941C56 (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

A0-2D-13 (hex) AirTies Wireless Networks
A02D13 (base 16) AirTies Wireless Networks
Esentepe Mah., Kore ?ehitleri Cad.
Istanbul ?i?li 34360
TR

CC-2D-1B (hex) SFR
CC2D1B (base 16) SFR
12 rue jean-philippe Rameau CS 80001
La plaine saint denis FRANCE 93634
FR

80-E5-40 (hex) ARRIS Group, Inc.
80E540 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

C0-D6-82 (hex) Arista Networks
C0D682 (base 16) Arista Networks
5453 Great America Parkway
Santa Clara CA 95054
US

50-14-08 (hex) AiNET
501408 (base 16) AiNET

11700 MONTGOMERY RD
BELTSVILLE MD 20705-1159
US

94-3B-B0 (hex) New
H3C Technologies Co., Ltd
943BB0 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

28-9A-F7 (hex) ADVA Optical Networking Ltd.
289AF7 (base 16) ADVA Optical Networking Ltd.
ADVAntage House
York YO30 4RY
GB

80-30-49 (hex) Liteon Technology Corporation
803049 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

F0-F0-A4 (hex) Amazon Technologies Inc.
F0F0A4 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

E8-49-43 (hex) YUGE Information technology Co. Ltd
E84943 (base 16) YUGE Information technology Co. Ltd
Room 303, Building No. 6, ShengRong Rd. 88, Pudong, Shanghai
Shanghai 201203
CN

50-DE-19 (hex) IEEE Registration Authority
50DE19 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

D0-05-E4 (hex) Huawei Device
Co., Ltd.
D005E4 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

30-AA-E4 (hex) Huawei Device Co., Ltd.
30AAE4 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

90-55-DE (hex) Fiberhome Telecommunication Technologies Co.,LTD
9055DE (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

E8-91-0F (hex) Fiberhome Telecommunication Technologies Co.,LTD
E8910F (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

14-AB-56 (hex) WUXI FUNIDE DIGITAL CO.,LTD
14AB56 (base 16) WUXI FUNIDE DIGITAL CO.,LTD
No. 38 East Chunhui Road, Xishan Economic & Technology Development Zone
WUXI JIANGSU 214101
CN

80-7B-3E (hex) Samsung Electronics Co.,Ltd
807B3E (base 16) Samsung Electronics Co.,Ltd
#94-1,
Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F8-F1-E6 (hex) Samsung Electronics Co.,Ltd
F8F1E6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

5C-E1-76 (hex) Cisco Systems, Inc
5CE176 (base 16) Cisco Systems, Inc
80 West Tasman Dr.
San Jose CA 94568
US

28-CD-C4 (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
28CDC4 (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

E8-D8-D1 (hex) HP Inc.
E8D8D1 (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

48-EB-62 (hex) Murata Manufacturing Co., Ltd.
48EB62 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

34-2F-BD (hex) Nintendo Co.,Ltd
342FBD (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

2C-91-AB
(hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
2C91AB (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

EC-CE-D7 (hex) Apple, Inc.
ECCED7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-90-85 (hex) Apple, Inc.
AC9085 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

88-A9-B7 (hex) Apple, Inc.
88A9B7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

CC-5C-DE (hex) China Mobile Group Device Co.,Ltd.
CC5CDE (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053

CN

4C-4F-EE (hex) OnePlus Technology (Shenzhen) Co., Ltd
4C4FEE (base 16) OnePlus Technology (Shenzhen) Co., Ltd
18C02, 18C03, 18C04 ,18C05,TAIRAN BUILDING,
Shenzhen Guangdong 518000
CN

A8-2B-CD (hex) HUAWEI TECHNOLOGIES CO.,LTD
A82BCD
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

48-DC-2D (hex) HUAWEI TECHNOLOGIES CO.,LTD
48DC2D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

34-F1-50 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
34F150 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

BC-F9-F2 (hex) TEKO
BCF9F2 (base 16) TEKO
Prospect Pobedy, 19
Kazan Republic of Tatarstan 420138
RU

60-CE-86 (hex) Sercomm Corporation.
60CE86 (base 16) Sercomm Corporation.
3F,No.81,Yu-Yih Rd.,Chu-Nan Chen
Miao-Lih Hsuan 115
TW

60-10-A2 (hex) Crompton Instruments
6010A2 (base 16) Crompton Instruments
12 Freebournes Road
Witham Essex CM8 3AH
GB

B0-A4-54 (hex) Tripwire Inc.
B0A454

(base 16) Tripwire Inc.
308 SW 2nd Avenue Suite 400
Portland OR 97204
US

AC-EB-51 (hex) Universal Electronics, Inc.
ACEB51 (base 16) Universal Electronics, Inc.
201 E. Sandpointe Ave
Santa Ana CA 92707
US

C4-B2-39 (hex) Cisco Systems, Inc
C4B239 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-09-FC (hex) IPFLEX Inc.
0009FC (base 16) IPFLEX Inc.
Mowa-Bldg 3F, 1-16-6
Shibuya-ku Tokyo 150-0021
JP

A8-24-B8 (hex) Nokia
A824B8 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

64-90-C1 (hex) Beijing Xiaomi Mobile Software Co., Ltd
6490C1 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

80-9F-9B (hex) Sichuan AI-Link Technology Co., Ltd.
809F9B (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou,Industrial Park
Anzhou,Industrial
Park Sichuan 621000
CN

4C-E1-75 (hex) Cisco Systems, Inc
4CE175 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

50-E5-49 (hex) GIGA-BYTE TECHNOLOGY CO.,LTD.
50E549 (base 16) GIGA-BYTE TECHNOLOGY CO.,LTD.
Pin-Jen City, Taoyuan, Taiwan, R.O.C.
Pin-Jen Taoyuan 324
TW

D4-24-93 (hex) GW Technologies Co.,Ltd
D42493 (base 16) GW Technologies Co.,Ltd
Building 16,No.8,Heying Road,Changping District
Beijing Beijing 102200
CN

3C-51-0E (hex) Cisco Systems, Inc
3C510E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

CC-52-89 (hex) SHENZHEN OPTFOCUS TECHNOLOGY.,LTD
CC5289 (base 16) SHENZHEN OPTFOCUS TECHNOLOGY.,LTD
Floor 3, Building No.7,Tangtou 3rd Industrial Park,Shiyan Street of BaoAn District
ShenZhen 518000
CN

CC-5D-78 (hex) JTD Consulting
CC5D78 (base 16) JTD Consulting
92 King Street South, Suite
200
Waterloo Ontario N2J 1P5
CA

D8-AE-D0 (hex) Shanghai Engineering Science & Technology Co.,LTD CGNPC
D8AED0 (base 16) Shanghai Engineering Science & Technology Co.,LTD CGNPC
No.1588, Rd Zixing
Shanghai Shanghai 200241
CN

0C-42-A1 (hex) Mellanox Technologies, Inc.
0C42A1 (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

D0-31-10 (hex) Ingenic Semiconductor Co.,Ltd
D03110 (base 16) Ingenic Semiconductor Co.,Ltd
Room 108,Building A,Information Center Zhongguancun Software Park 8 Dongbeiwang West Road,Haidain District
Beijing 100193

CN

A8-E7-7D (hex) Texas Instruments
A8E77D (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

E0-85-9A (hex) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
E0859A (base 16) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
Bldg56A,6/F,Baotian Rd3,Xixiang Town,Baoan District,
Shenzhen Guangdong 518000
CN

EC-A9-40
(hex) ARRIS Group, Inc.
ECA940 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

FC-85-96 (hex) Axonne Inc.
FC8596 (base 16) Axonne Inc.
1290 Kifer Rd. #301
Sunnyvale CA 94086
US

5C-B4-E2 (hex) Inspur Software Group Ltd.
5CB4E2 (base 16) Inspur Software Group Ltd.
No. 1036, Langchao Road
Jinan Shandong 250101
CN

34-9F-7B (hex) CANON INC.
349F7B (base 16) CANON INC.
30-2 Shimomaruko 3-chome,
Ohta-ku Tokyo 146-8501
JP

B4-7A-F1 (hex) Hewlett Packard Enterprise
B47AF1 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

6C-41-0E (hex) Cisco Systems, Inc
6C410E (base 16) Cisco Systems, Inc
80 West Tasman Drive

San Jose CA 94568
US

14-91-38 (hex) Amazon Technologies Inc.
149138 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

08-CC-27 (hex) Motorola Mobility LLC,
a Lenovo Company
08CC27 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

04-D3-95 (hex) Motorola Mobility LLC, a Lenovo Company
04D395 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

E0-98-06 (hex) Espressif Inc.
E09806 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

F4-CF-A2 (hex) Espressif Inc.
F4CFA2 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

58-D5-0A (hex) Murata Manufacturing Co., Ltd.
58D50A (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

50-C6-AD (hex) Fiberhome Telecommunication Technologies Co.,LTD
50C6AD (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan
Hubei 430074
CN

0C-84-47 (hex) Fiberhome Telecommunication Technologies Co.,LTD

0C8447 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

9C-6B-72 (hex) Realme Chongqing MobileTelecommunications Corp Ltd
9C6B72 (base 16) Realme Chongqing MobileTelecommunications Corp Ltd
No.24 Nichang Boulevard, Huixing Block, Yubei District, Chongqing.
Chongqing China 401120
CN

F8-1E-6F (hex) EBG compleo GmbH
F81E6F (base 16) EBG compleo GmbH
Oberste-Wilms-Straße 15a
Dortmund Nordrhein-Westfalen 44309
DE

6C-31-0E (hex) Cisco Systems, Inc
6C310E (base 16) Cisco Systems, Inc
80 West Tasman Dr.
San Jose CA 94568
US

DC-54-3D (hex) ITEL MOBILE LIMITED
DC543D (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

74-8A-28 (hex) HMD Global Oy
748A28
(base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

14-A3-2F (hex) Huawei Device Co., Ltd.
14A32F (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

04-D3-B5 (hex) Huawei Device Co., Ltd.
04D3B5 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

64-2C-AC (hex) HUAWEI TECHNOLOGIES CO.,LTD
642CAC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E8-84-C6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E884C6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

28-77-F1 (hex) Apple, Inc.
2877F1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-A3-5A (hex) Apple, Inc.
F0A35A (base 16) Apple, Inc.
1
Infinite Loop
Cupertino CA 95014
US

60-83-73 (hex) Apple, Inc.
608373 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

84-AD-8D (hex) Apple, Inc.
84AD8D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

74-42-8B (hex) Apple, Inc.
74428B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

DC-4B-FE (hex) Shenzhen Belon Technology CO.,LTD
DC4BFE (base 16) Shenzhen Belon Technology CO.,LTD
Tsinghua Information
Shenzhen Guangdong 518052
CN

50-62-55 (hex) IEEE Registration Authority
506255 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

F0-A7-B2 (hex) FUTABA CORPORATION
F0A7B2 (base 16) FUTABA CORPORATION
629 Oshiba
Mobara Chiba Prefecture 297-8588
JP

60-9B-2D (hex) JMACS Japan Co., Ltd.
609B2D (base 16) JMACS Japan Co., Ltd.
11F, KM Nishi-Umeda bldg., 7-20-1 Fukushima, Fukushima-ku
Osaka-city
Osaka 553-0003
JP

00-BB-1C (hex) Huawei Device Co., Ltd.
00BB1C (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

88-A3-03 (hex) Samsung Electronics Co.,Ltd
88A303 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

FC-DE-90 (hex) Samsung Electronics Co.,Ltd
FCDE90 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

18-54-CF (hex) Samsung Electronics Co.,Ltd
1854CF (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

80-79-5D (hex) Infinix mobility limited
80795D (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN
HONG KONG

HongKong HongKong 999077
HK

5C-E7-A0 (hex) Nokia
5CE7A0 (base 16) Nokia
600 March Road
Kanata Ontario
K2K 2E6
CA

8C-DC-02 (hex) zte corporation
8CDC02 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

80-AC-7C (hex) Sichuan AI-Link Technology Co., Ltd.
80AC7C (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou,Industrial Park
Anzhou,Industrial Park Sichuan 621000
CN

10-C6-5E (hex) Adapt-IP
10C65E (base 16) Adapt-IP
1671 Dell Avenue, Suite 130
Campbell CA 95008-6900
US

20-31-1C (hex) vivo Mobile Communication Co., Ltd.
20311C (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

7C-A7-B0 (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
7CA7B0 (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268? Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

68-39-43 (hex) ittim
683943 (base 16) ittim
1202, No.6, Zhongguancun
South Street, Haidian District,
beijing 100080
CN

B4-E8-42 (hex) Hong Kong Bouffalo Lab Limited

B4E842 (base 16) Hong Kong Bouffalo Lab Limited
RM 1903, 19/F Lee Garden One 33 Hysan Avenue, Causeway Bay
HongKong 999077
HK

28-52-F9 (hex) Zhongxin Intelligent Times (Shenzhen) Co., Ltd.
2852F9 (base 16) Zhongxin Intelligent Times (Shenzhen) Co., Ltd.
3rd Floor,Building 46,Cuigang Industrial Zone 5,Fuyong Street,Baoan District
Shenzhen Guangdong 518103
CN

B8-F8-53 (hex) Arcadyan Corporation
B8F853 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

E0-D0-83 (hex) Samsung Electronics Co.,Ltd
E0D083 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D8-0B-9A (hex) Samsung Electronics Co.,Ltd
D80B9A (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

6C-71-0D (hex) Cisco
Systems, Inc
6C710D (base 16) Cisco Systems, Inc
80 West Tasman Dr.
San Jose CA 94568
US

F8-75-A4 (hex) LCFC(HeFei) Electronics Technology co., ltd
F875A4 (base 16) LCFC(HeFei) Electronics Technology co., ltd
YunGu Road 3188-1
Hefei Anhui 230000
CN

00-D2-B1 (hex) TPV Display Technology (Xiamen) Co.,Ltd.
00D2B1 (base 16) TPV Display Technology (Xiamen) Co.,Ltd.
No.1, Xianghai Road, Xiamen Torch Hi-Tech Industrial Development Zone
XM Fujian 361101
CN

1C-44-55 (hex) Sieb & Meyer AG
1C4455 (base 16) Sieb & Meyer AG
Auf dem Schmaarkamp 21
Lueneburg 21339
DE

E0-1F-88 (hex) Xiaomi Communications Co Ltd
E01F88 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

80-32-53 (hex) Intel Corporate
803253 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C0-E4-34
(hex) AzureWave Technology Inc.
C0E434 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

D0-3D-52 (hex) Ava Security Limited
D03D52 (base 16) Ava Security Limited
The Charter Building, Charter Place
Uxbridge UB8 1JG
GB

24-6F-8C (hex) Huawei Device Co., Ltd.
246F8C (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

1C-13-86 (hex) Huawei Device Co., Ltd.
1C1386 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

BC-2E-F6 (hex) Huawei Device Co., Ltd.
BC2EF6 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

44-55-C4 (hex) Huawei Device Co., Ltd.
4455C4 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong
523808
CN

AC-8D-34 (hex) HUAWEI TECHNOLOGIES CO.,LTD
AC8D34 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

80-31-F0 (hex) Samsung Electronics Co.,Ltd
8031F0 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

58-35-26 (hex) DEEPLET TECHNOLOGY CORP
583526 (base 16) DEEPLET TECHNOLOGY CORP
5F,No.9,Lane235,Pao-Chiao Rd., Hsin-Tien,
New Taipei City 23145
TW

40-11-75 (hex) IEEE Registration Authority
401175 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

84-A9-EA (hex) Career Technologies USA
84A9EA (base 16) Career Technologies USA
9134 Independence Ave
Chatsworth CA 91311
US

E4-05-F8 (hex) Bytedance
E405F8 (base 16) Bytedance
E World Center,11 Zhongguancun Street Haidian Dist
Beijing City Beijing 100102
CN

74-3C-18
(hex) Taicang T&W Electronics
743C18 (base 16) Taicang T&W Electronics
89# Jiang Nan RD

Suzhou Jiangsu 215412
CN

10-88-CE (hex) Fiberhome Telecommunication Technologies Co.,LTD
1088CE (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan City Hubei Province 430074
CN

8C-02-FA (hex) COMMANDO Networks Limited
8C02FA (base 16) COMMANDO Networks Limited
Rm407, 4th floor, 3-2 HuaYuan Rd., DaLang Subdistrict, LongHua District
Shenzhen Guangdong 518109
CN

F4-74-88 (hex) New H3C Technologies Co., Ltd
F47488 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

6C-1D-EB (hex) u-blox AG
6C1DEB (base 16) u-blox AG
Zuercherstrasse 68
Thalwil 8800
CH

28-7F-CF (hex) Intel Corporate
287FCF (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

4C-80-BA (hex) Wuhan
Tianyu Information Industry Co., Ltd.
4C80BA (base 16) Wuhan Tianyu Information Industry Co., Ltd.
HUST Industry Park, East-Lake Development Zone
Wuhan Hubei 430223
CN

34-B5-A3 (hex) CIG SHANGHAI CO LTD
34B5A3 (base 16) CIG SHANGHAI CO LTD
5th Floor, Building 8 No 2388 Chenhang Road
SHANGHAI 201114
CN

74-31-70 (hex) Arcadyan Technology Corporation
743170 (base 16) Arcadyan Technology Corporation

4F. , No. 9 , Park Avenue II,
Hsinchu 300
TW

00-00-84 (hex) SUPERNET
000084 (base 16) SUPERNET
846 DEL REY AVENUE
SUNNYVALE CA 94086
US

50-A1-32 (hex) Shenzhen MiaoMing Intelligent Technology Co.,Ltd
50A132 (base 16) Shenzhen MiaoMing Intelligent Technology Co.,Ltd
Chudong science and technology park, 111 shaxin road, tangxia town,
dongguan city guangdong province 523710
CN

80-78-71 (hex) ASKEY COMPUTER CORP
807871 (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG
RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

28-33-34 (hex) Huawei Device Co., Ltd.
283334 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

30-A2-C2 (hex) Huawei Device Co., Ltd.
30A2C2 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

DC-DF-D6 (hex) zte corporation
DCDFD6 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

AC-A8-8E (hex) SHARP Corporation
ACA88E (base 16) SHARP Corporation
1 Takumi-cho, Sakai-ku
Sakai City Osaka 590-8522
JP

98-41-5C (hex) Nintendo Co.,Ltd

98415C (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

70-54-25 (hex) ARRIS Group, Inc.
705425 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

5C-0B-CA
(hex) Tunstall Nordic AB
5C0BCA (base 16) Tunstall Nordic AB
Agnesfridsvagen 113A
Malmo 21237
SE

88-51-7A (hex) HMD Global Oy
88517A (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

AC-B3-B5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
ACB3B5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

84-80-94 (hex) Meter, Inc.
848094 (base 16) Meter, Inc.
148 Townsend St
San Francisco CA 94107
US

10-B3-D5 (hex) Cisco Systems, Inc
10B3D5 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F4-9C-12 (hex) Structab AB
F49C12 (base 16) Structab AB
Slotsmöllan 14B
HALMSTAD 30231
SE

60-AB-14 (hex) LG Innotek
60AB14 (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

BC-62-D2 (hex) Genexis International B.V.
BC62D2
(base 16) Genexis International B.V.
Waldfeuchterbaan 124
Maria Hoop Maria Hoop 6105 BP
NL

6C-9E-7C (hex) Fiberhome Telecommunication Technologies Co.,LTD
6C9E7C (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

84-D1-5A (hex) TCT mobile ltd
84D15A (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

F0-86-20 (hex) Arcadyan Corporation
F08620 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

DC-CC-8D (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
DCCC8D (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

B8-F6-53 (hex) Shenzhen Jingxun Software Telecommunication Technology Co.,Ltd
B8F653 (base 16) Shenzhen Jingxun Software Telecommunication Technology Co.,Ltd
3/F,A5
Building Zhiyuan Community No.1001,Xueyuan Road Nanshan District
Shenzhen Guangdong 518055
CN

4C-7A-48 (hex) Nippon Seiki (Europe) B.V.
4C7A48 (base 16) Nippon Seiki (Europe) B.V.
Antareslaan 27
Hoofddorp 2132

NL

F4-B6-88 (hex) PLANTRONICS, INC.
F4B688 (base 16) PLANTRONICS, INC.
345 ENCINAL STREET
SANTA CRUZ CA 95060
US

00-0C-86 (hex) Cisco Systems, Inc
000C86 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

08-3A-88 (hex) Universal Global Scientific Industrial Co., Ltd.
083A88 (base 16) Universal Global Scientific Industrial Co., Ltd.
141, Lane 351, Taiping Road, Sec.1,Tsao Tuen
Nan-Tou Taiwan 54261
TW

08-31-8B (hex) HUAWEI TECHNOLOGIES CO.,LTD
08318B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

4C-B1-CD (hex) Ruckus Wireless
4CB1CD (base 16) Ruckus
Wireless
350 West Java Drive
Sunnyvale CA 94089
US

F8-3C-BF (hex) BOTATO ELECTRONICS SDN BHD
F83CBF (base 16) BOTATO ELECTRONICS SDN BHD
c-1-2, JALAN BK5A/2B 47180,BANDAR KINRARA
PUCHONG SELANGOR 47180
MY

FC-58-9A (hex) Cisco Systems, Inc
FC589A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F0-5C-77 (hex) Google, Inc.
F05C77 (base 16) Google, Inc.
1600 Amphitheatre Parkway

Mountain View CA 94043
US

44-67-47 (hex) HUAWEI TECHNOLOGIES CO.,LTD
446747 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

88-4A-70 (hex) Wacom Co.,Ltd.
884A70 (base 16) Wacom Co.,Ltd.
Sumitomo Fudosan Shinjuku Grand Tower 31F,8-17-1
Nishi-shinjuku,Shinjuku-ku Tokyo 160-6131
JP

A4-63-A1 (hex) Inventus Power Eletronica do Brasil LTDA
A463A1 (base 16) Inventus Power Eletronica do Brasil
LTDA
Av Buriti, 4285 Distrito Industrial
Manaus Amazonas 69075000
BR

3C-9D-56 (hex) HUAWEI TECHNOLOGIES CO.,LTD
3C9D56 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

70-FD-45 (hex) HUAWEI TECHNOLOGIES CO.,LTD
70FD45 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F4-B5-BB (hex) CERAGON NETWORKS
F4B5BB (base 16) CERAGON NETWORKS
24 RAUEL WALLENBERG STREET
TEL-AVIV 96719
IL

54-2B-8D (hex) Apple, Inc.
542B8D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

6C-D7-1F (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
6CD71F (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD

NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

44-D5-F2 (hex) IEEE Registration Authority
44D5F2 (base 16) IEEE Registration
Authority
445 Hoes Lane
Piscataway NJ 08554
US

0C-DD-24 (hex) Intel Corporate
0CDD24 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

8C-49-62 (hex) Roku, Inc
8C4962 (base 16) Roku, Inc
1155 Coleman Ave
San Jose CA 95110
US

50-7A-C5 (hex) Apple, Inc.
507AC5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

4C-6B-E8 (hex) Apple, Inc.
4C6BE8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

8C-86-1E (hex) Apple, Inc.
8C861E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-1D-29 (hex) Doro AB
001D29 (base 16) Doro AB
Magistratsvägen 10
Lund 226 43
SE

EC-A5-DE (hex) ONYX WIFI Inc

ECA5DE (base 16) ONYX WIFI Inc
9891 Irvine Center Drive, Suite 200
Irvine 92618
US

C4-AC-59 (hex) Murata Manufacturing Co., Ltd.
C4AC59 (base 16) Murata Manufacturing
Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

58-16-D7 (hex) ALPSALPINE CO,.LTD
5816D7 (base 16) ALPSALPINE CO,.LTD
nishida 6-1
Kakuda-City Miyagi-Pref 981-1595
JP

FC-A4-7A (hex) IEEE Registration Authority
FCA47A (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

38-18-4C (hex) Sony Home Entertainment&Sound Products Inc
38184C (base 16) Sony Home Entertainment&Sound Products Inc
Sony City Osaki 2-10-1 Osaki Shinagawa-ku
Tokyo Japan 141-8610
JP

34-75-63 (hex) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
347563 (base 16) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
Bldg56A,6/F,Baotian Rd3,Xixiang Town,Baoan District,
Shenzhen Guangdong 518000
CN

14-2E-5E (hex) Sercomm Corporation.
142E5E (base 16) Sercomm Corporation.
3F,No.81,Yu-Yih Rd.,Chu-Nan Chen
Miao-Lih Hsuan 115
TW

00-25-CB (hex) Reiner SCT
0025CB (base 16) Reiner
SCT
Reiner Kartengeräte GmbH & Co. KG.
Furtwangen 78120
DE

44-23-7C (hex) Beijing Xiaomi Mobile Software Co., Ltd
44237C (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

30-94-35 (hex) vivo Mobile Communication Co., Ltd.
309435 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

50-EB-71 (hex) Intel Corporate
50EB71 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D4-4B-B6 (hex) Zhejiang Tmall Technology Co., Ltd.
D44BB6 (base 16) Zhejiang Tmall Technology Co., Ltd.
Ali Center,No.3331 Keyuan South RD (Shenzhen bay), Nanshan District, Shenzhen Guangdong province
Shenzhen GuangDong 518000
CN

C0-64-E4 (hex) Cisco Systems, Inc
C064E4 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San
Jose CA 94568
US

D8-2F-E6 (hex) Zhejiang Tmall Technology Co., Ltd.
D82FE6 (base 16) Zhejiang Tmall Technology Co., Ltd.
Ali Center,No.3331 Keyuan South RD (Shenzhen bay), Nanshan District, Shenzhen Guangdong province
Shenzhen GuangDong 518000
CN

F0-68-65 (hex) Taicang T&W Electronics
F06865 (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

14-0F-42 (hex) Nokia
140F42 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6

CA

00-6D-61 (hex) Guangzhou V-SOLUTION Electronic Technology Co., Ltd.
006D61 (base 16) Guangzhou V-SOLUTION Electronic Technology Co., Ltd.
Room 601,Originality Building B2, NO.162 Science Avenue,Science Town
Guangzhou Guangdong 510663
CN

78-CC-2B (hex) SINEWY TECHNOLOGY CO., LTD
78CC2B (base 16) SINEWY TECHNOLOGY CO., LTD
2F., No.179, Dongmin Rd.
Toufen City, Miaoli County 351
TW

50-D4-F7 (hex) TP-LINK TECHNOLOGIES
CO.,LTD.
50D4F7 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

00-0A-17 (hex) NESTAR COMMUNICATIONS, INC
000A17 (base 16) NESTAR COMMUNICATIONS, INC
No.6,19 Lane Bade Road
HSINCHU 300
TW

B8-66-85 (hex) Sagemcom Broadband SAS
B86685 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

B4-54-59 (hex) China Mobile (Hangzhou) Information Technology Co., Ltd.
B45459 (base 16) China Mobile (Hangzhou) Information Technology Co., Ltd.
No. 1600 Yuhangtang Road, Wuchang Street, Yuhang District
Hangzhou Zhejiang 310000
CN

38-1A-52 (hex) Seiko Epson Corporation
381A52 (base 16) Seiko Epson Corporation
2070 Kotobuki Koaka
Matsumoto-shi Nagano-ken 399-8702
JP

5C-87-9C (hex) Intel Corporate
5C879C (base 16) Intel

Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

24-EE-9A (hex) Intel Corporate
24EE9A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

E4-FD-A1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E4FDA1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E4-19-C1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E419C1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B4-52-A9 (hex) Texas Instruments
B452A9 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

D8-AF-81 (hex) AO
D8AF81 (base 16) AO
Filippovskiy per., 8/1
Moscow 119019
RU

1C-20-DB (hex) HUAWEI TECHNOLOGIES CO.,LTD
1C20DB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D0-C6-5B
(hex) HUAWEI TECHNOLOGIES CO.,LTD
D0C65B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

90-78-B2 (hex) Xiaomi Communications Co Ltd
9078B2 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

78-C3-13 (hex) China Mobile Group Device Co.,Ltd.
78C313 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

74-34-AE (hex) this is engineering Inc.
7434AE (base 16) this is engineering Inc.
352, 815 Daewangpangyo-ro, Sujeong-gu
Seongnam-si Gyeonggi-do 13449
KR

D0-C8-57 (hex) IEEE Registration Authority
D0C857 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

54-EF-44 (hex) Lumi United Technology Co., Ltd
54EF44 (base 16) Lumi United
Technology Co., Ltd
8th Floor, JinQi Wisdom Valley, No.1 TangLing Road, LinXian Ave, Taoyuan Residential District,Nanshan District
ShenZhen GuangDong 518055
CN

00-09-70 (hex) Vibration Research Corporation
000970 (base 16) Vibration Research Corporation
2385 Wilshere Drive
Jenison MI 49428
US

14-A2-A0 (hex) Cisco Systems, Inc
14A2A0 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E4-AB-89 (hex) MitraStar Technology Corp.
E4AB89 (base 16) MitraStar Technology Corp.
No. 6, Innovation Road II,
Hsinchu 300
TW

AC-83-E9 (hex) Beijing Zile Technology Co., Ltd
AC83E9 (base 16) Beijing Zile Technology Co., Ltd
Tecent WeWork, Huilongguan East Avenue, Changping District
Beijing Beijing 100096
CN

D8-CA-06 (hex) Titan DataCenters France
D8CA06 (base 16) Titan DataCenters France
E.SpacePark 45 Allee des ormes
mougins 06250
FR

60-95-CE (hex) IEEE
Registration Authority
6095CE (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

74-60-FA (hex) HUAWEI TECHNOLOGIES CO.,LTD
7460FA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-06-83 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C40683 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-D0-0D (hex) HUAWEI TECHNOLOGIES CO.,LTD
94D00D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-8A-5A (hex) JFCONTROL
C48A5A (base 16) JFCONTROL
1449-37 Seoburo
Suwon Gyunggi-do 16643
KR

B4-9A-95 (hex) Shenzhen Boomtech Industrial Corporation
B49A95 (base 16) Shenzhen Boomtech Industrial Corporation
2F, Block E, Bao'an Intelligent Valley, Yingtian Road

No.4 Xixiang Sub-District Office, Bao'an District
Shenzhen Guangdong 518102
CN

8C-FD-18 (hex) HUAWEI TECHNOLOGIES CO.,LTD
8CFD18 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

FC-BC-D1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
FCBCD1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

8C-E5-C0 (hex) Samsung Electronics Co.,Ltd
8CE5C0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F0-8A-76 (hex) Samsung Electronics Co.,Ltd
F08A76 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

EC-AA-25 (hex) Samsung Electronics Co.,Ltd
ECAA25 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

68-7D-6B (hex) Samsung Electronics Co.,Ltd
687D6B (base
16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

48-51-69 (hex) Samsung Electronics Co.,Ltd
485169 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

40-2B-50 (hex) ARRIS Group, Inc.

402B50 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1F-47 (hex) MCS Logic Inc.
001F47 (base 16) MCS Logic Inc.
6F. Samho Center B Bldg., 275-6
Seoul 137-941
KR

74-AD-B7 (hex) China Mobile Group Device Co.,Ltd.
74ADB7 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street
Beijing 100053
CN

BC-7F-A4 (hex) Xiaomi Communications Co Ltd
BC7FA4 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

90-47-3C (hex) China Mobile Group Device Co.,Ltd.
90473C (base 16) China Mobile Group Device
Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

7C-21-D8 (hex) Shenzhen Think Will Communication Technology co., LTD.
7C21D8 (base 16) Shenzhen Think Will Communication Technology co., LTD.
16F,Block A,Central Plaza,No.2002,Baoyuan Rd.,Baoan District
Shenzhen 518101
CN

FC-49-2D (hex) Amazon Technologies Inc.
FC492D (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

74-EE-2A (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
74EE2A (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268 Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

08-00-39 (hex) SPIDER SYSTEMS LIMITED
080039 (base 16) SPIDER SYSTEMS LIMITED
SPIDER PARK
SCOTLAND
GB

FC-EA-50 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
FCEA50 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas
Penang 11900
MY

00-E0-6B (hex) W&G SPECIAL PRODUCTS
00E06B (base 16) W&G SPECIAL PRODUCTS
SCEINCE PARK EINDHOVIN 5049

NL

D4-F0-57 (hex) Nintendo Co.,Ltd
D4F057 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

88-9E-33 (hex) TCT mobile ltd
889E33 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

6C-8A-EC (hex) Nantong Coship Electronics Co., Ltd.
6C8AEC (base 16) Nantong Coship Electronics Co., Ltd.
No.188 Xinsheng Road
Nantong Jiangsu 226001
CN

84-C2-E4 (hex) Jiangsu Qinheng Co., Ltd.
84C2E4 (base 16) Jiangsu Qinheng Co., Ltd.
No. 18, Ningshuang Road
Nanjing Jiangsu 210012
CN

B4-CF-E0 (hex) Sichuan tianyi kanghe communications co., LTD
B4CFE0 (base 16) Sichuan tianyi kanghe communications co., LTD
No.198, section 1, xueshan avenue, jinyuan town, dayi county
chengdu

sichuan 611330
CN

6C-F1-7E (hex) Zhejiang Uniview Technologies Co.,Ltd.
6CF17E (base 16) Zhejiang Uniview Technologies Co.,Ltd.
No.88,Jiangling Road
Hangzhou Zhejiang,P.R.China 310051
CN

D8-F1-5B (hex) Espressif Inc.
D8F15B (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

10-3D-3E (hex) China Mobile Group Device Co.,Ltd.
103D3E (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

64-CC-22 (hex) Arcadyan Corporation
64CC22 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

4C-91-57 (hex) Fujian LANDI Commercial Equipment Co.,Ltd
4C9157 (base 16) Fujian LANDI Commercial Equipment Co.,Ltd
Building 17,the 1st Section ,Fuzhou Software Park
No.89 Software Road Fuzhou ,Fujian 350003
CN

48-87-64 (hex) vivo Mobile
Communication Co., Ltd.
488764 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

5C-1C-B9 (hex) vivo Mobile Communication Co., Ltd.
5C1CB9 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

C0-FD-84 (hex) zte corporation
C0FD84 (base 16) zte corporation

12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

9C-25-BE (hex) Wildlife Acoustics, Inc.
9C25BE (base 16) Wildlife Acoustics, Inc.
3 Mill and Main Place, Suite 210
MAYNARD MA 01754
US

D0-39-EA (hex) NetApp
D039EA (base 16) NetApp
1395 Crossman Ave
Sunnyvale, CA 94089
US

F8-DF-E1 (hex) MyLight Systems
F8DFE1 (base 16) MyLight Systems
290 rue Ferdinand Perrier
Saint Priest 69800
FR

44-4B-7E (hex) Fiberhome Telecommunication Technologies Co.,LTD
444B7E
(base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

E8-D0-FC (hex) Liteon Technology Corporation
E8D0FC (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

E8-E8-B7 (hex) Murata Manufacturing Co., Ltd.
E8E8B7 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

08-3A-2F (hex) Guangzhou Juan Intelligent Tech Joint Stock Co.,Ltd
083A2F (base 16) Guangzhou Juan Intelligent Tech Joint Stock Co.,Ltd
NO.9, street 3, HengLing industrial zone, Tangdong, tianhe district
Guangzhou Guangdong CN 510000
CN

1C-3A-60 (hex) Ruckus Wireless

1C3A60 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

60-09-C3 (hex) u-blox AG
6009C3 (base 16) u-blox AG
Zuercherstrasse 68
Thalwil 8800
CH

DC-8C-37 (hex) Cisco Systems, Inc
DC8C37
(base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

78-8C-77 (hex) LEXMARK INTERNATIONAL, INC.
788C77 (base 16) LEXMARK INTERNATIONAL, INC.
740 NEW CIRCLE ROAD
LEXINGTON KY 40550
US

3C-0C-7D (hex) Tiny Mesh AS
3C0C7D (base 16) Tiny Mesh AS
Elisabeth von Hübschs gate 6
MOSS 1534
NO

34-76-C5 (hex) I-O DATA DEVICE,INC.
3476C5 (base 16) I-O DATA DEVICE,INC.
3-10, SAKURADA-MACHI
KANAZAWA ISHIKAWA 920-8512
JP

60-D2-DD (hex) Shenzhen Baitong Putian Technology Co.,Ltd.
60D2DD (base 16) Shenzhen Baitong Putian Technology Co.,Ltd.
501,5/F,Building 1,No.2,Lianwei Street,Hualian Community,Longhua Street Longhua District
Shenzhen Guangdong 518109
CN

5C-32-C5 (hex) Teracom Ltd.
5C32C5 (base 16) Teracom Ltd.
11 Vasil Levski blvd.
Ruse 7019
BG

A8-DB-03 (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
A8DB03 (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T.
Bangsamak SEMTHAI, WELLGROW INDUSTRIAL ESTATE
Bangpakong Chachoengsao 24180
TH

30-89-44 (hex) DEVA Broadcast Ltd.
308944 (base 16) DEVA Broadcast Ltd.
Alexander Stamboliyski 65
Burgas Burgas 8000
BG

24-DA-33 (hex) HUAWEI TECHNOLOGIES CO.,LTD
24DA33 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

FC-AB-90 (hex) HUAWEI TECHNOLOGIES CO.,LTD
FCAB90 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A4-97-5C (hex) VTech Telecommunications Ltd.
A4975C (base 16) VTech Telecommunications Ltd.
23/F,Tai Ping Industrial Centre ,Block 1
Hong Kong 000000
CN

1C-27-04 (hex) zte corporation
1C2704 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

50-78-B3 (hex) zte
corporation
5078B3 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

F0-D4-F7 (hex) varram system
F0D4F7 (base 16) varram system
57, TECHNO 11-RO,YUSEONG-GU, DAEJEON, KOREA
DAEJEON 34036

KR

E0-CC-7A (hex) HUAWEI TECHNOLOGIES CO.,LTD
E0CC7A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B0-2A-1F (hex) Wingtech Group (HongKongLimited
B02A1F (base 16) Wingtech Group (HongKongLimited
FLAT/RM 1903 19/F PODIUM PLAZA 5HANOI ROAD TSIM SHA TSUI
Hong Kong Hong Kong 999077
HK

DC-68-0C (hex) Hewlett Packard Enterprise
DC680C (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

58-93-D8 (hex) Texas Instruments
5893D8 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

50-51-A9 (hex) Texas
Instruments
5051A9 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

F4-79-60 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F47960 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

14-52-90 (hex) KNS Group LLC (YADRO Company)
145290 (base 16) KNS Group LLC (YADRO Company)
Spartakovskaya sq., 14, bl. 1
Moscow 105082
RU

6C-23-CB (hex) Wattty Corporation
6C23CB (base 16) Wattty Corporation
2-15-31 takaokanishi nakaku

hamamatsushi shizuokaken 4338118
JP

60-AB-67 (hex) Xiaomi Communications Co Ltd
60AB67 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

AC-71-0C (hex) China Mobile Group Device Co.,Ltd.
AC710C (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing
100053
CN

AC-EE-70 (hex) Fontem Ventures BV
ACEE70 (base 16) Fontem Ventures BV
Motion Building 8F, Radarweg 60
Amsterdam Noord-Holland 1043NT
NL

00-B6-00 (hex) VOIM Co., Ltd.
00B600 (base 16) VOIM Co., Ltd.
70, Seotan-ro, Jinwi-myeon
Pyeongtaek-si Gyeonggi-do 17706
KR

44-18-FD (hex) Apple, Inc.
4418FD (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-5B-94 (hex) Apple, Inc.
005B94 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E0-89-7E (hex) Apple, Inc.
E0897E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-26-15 (hex) Teracom Limited
002615 (base 16) Teracom Limited

B-84
Noida Uttar Pradesh 201301
IN

9C-8E-DC (hex) Teracom Limited
9C8EDC (base 16) Teracom Limited
123456
Noida Uttar Pradesh 201301
IN

00-01-91 (hex) SYRED Data Systems
000191 (base 16) SYRED Data Systems
272
Lanes Mill Road
Howell NJ 07731
US

A8-34-6A (hex) Samsung Electronics Co.,Ltd
A8346A (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

48-46-C1 (hex) FN-LINK TECHNOLOGY LIMITED
4846C1 (base 16) FN-LINK TECHNOLOGY LIMITED
A Building,HuiXin industial park,No 31, YongHe road, Fuyong town, Bao'an District
SHENZHEN GUANGDONG 518100
CN

48-89-E7 (hex) Intel Corporate
4889E7 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

A0-BD-1D (hex) Zhejiang Dahua Technology Co., Ltd.
A0BD1D (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

B4-D0-A9 (hex) China Mobile Group Device Co.,Ltd.
B4D0A9 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

FC-29-F3 (hex) McPay Co.,LTD.

FC29F3 (base 16) McPay Co.,LTD.
No.801,
61, Digital-ro 31-gil, Guro-gu
Seoul 08375
KR

F8-AF-DB (hex) Fiberhome Telecommunication Technologies Co.,LTD
F8AFDB (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

AC-E2-D3 (hex) Hewlett Packard
ACE2D3 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

00-FD-22 (hex) Cisco Systems, Inc
00FD22 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

98-FA-9B (hex) LCFC(HeFei) Electronics Technology co., ltd
98FA9B (base 16) LCFC(HeFei) Electronics Technology co., ltd
YunGu Road 3188-1
Hefei Anhui 230000
CN

E4-9F-1E (hex) ARRIS Group, Inc.
E49F1E (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

2C-CC-E6 (hex) Skyworth Digital Technology(Shenzhen) Co.,Ltd
2CCCE6 (base 16) Skyworth Digital Technology(Shenzhen) Co.,Ltd
7F,Block A,Skyworth Building,
Shenzhen
Guangdong 518057
CN

CC-2C-83 (hex) DarkMatter L.L.C
CC2C83 (base 16) DarkMatter L.L.C
Level 15, Aldar HQ
Abu Dhabi 27655
AE

DC-ED-84 (hex) Haverford Systems Inc
DCED84 (base 16) Haverford Systems Inc
152 Robbins Road
Downingtown PA 19335
US

64-4C-36 (hex) Intel Corporate
644C36 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

7C-57-3C (hex) Aruba, a Hewlett Packard Enterprise Company
7C573C (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

AC-D5-64 (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
ACD564 (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

94-D0-75 (hex) CIS Crypto
94D075 (base 16) CIS Crypto
Nauchnyy proezd 6
Moscow 117246
RU

28-B4-FB (hex) Sprocomm
Technologies CO.,LTD.
28B4FB (base 16) Sprocomm Technologies CO.,LTD.
5D F1.6 Block,Tianfa Building,Tianan Chegongmiao Industrial park,Futian Dist
shenzhen guangdong 518000
CN

C0-53-36 (hex) Beijing National Railway Research & Design Institute of Signal & Communication Group Co..Ltd.
C05336 (base 16) Beijing National Railway Research & Design Institute of Signal & Communication Group Co..Ltd.
7 floor, No.1 Automobile Museum South Road, Fengtai Science and Technology Park,
Beijing Beijing 100070
CN

60-6E-D0 (hex) SEAL AG
606ED0 (base 16) SEAL AG
Landstrasse 176

Wettingen 5430
CH

3C-20-F6 (hex) Samsung Electronics Co.,Ltd
3C20F6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

7C-38-AD (hex) Samsung Electronics Co.,Ltd
7C38AD (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

40-F9-D5 (hex) Tecore Networks
40F9D5
(base 16) Tecore Networks
7030 Hi Tech Drive
Hanover MD 21076
US

E4-4C-C7 (hex) IEEE Registration Authority
E44CC7 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

D4-E8-80 (hex) Cisco Systems, Inc
D4E880 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

98-49-E1 (hex) Boeing Defence Australia
9849E1 (base 16) Boeing Defence Australia
GPO Box 767
Brisbane Queensland 4001
AU

04-D7-A5 (hex) New H3C Technologies Co., Ltd
04D7A5 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

2C-01-B5 (hex) Cisco Systems, Inc
2C01B5 (base 16) Cisco Systems, Inc

80 West Tasman Drive
San Jose CA 94568
US

88-5A-06 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
885A06 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG
GUAN GUANG DONG 523860
CN

54-47-D3 (hex) TSAT AS
5447D3 (base 16) TSAT AS
Martin Linges v 25
Fornebu 1364
NO

4C-4D-66 (hex) Nanjing Jiahao Technology Co., Ltd.
4C4D66 (base 16) Nanjing Jiahao Technology Co., Ltd.
Moling Industrial Park, Development Zone, Jiangning, Nanjing
Nanjing Jiangsu 211111
CN

A4-81-7A (hex) CIG SHANGHAI CO LTD
A4817A (base 16) CIG SHANGHAI CO LTD
5th Floor, Building 8 No 2388 Chenhang Road
SHANGHAI 201114
CN

CC-ED-DC (hex) MitraStar Technology Corp.
CCEDDC (base 16) MitraStar Technology Corp.
No. 6, Innovation Road II,
Hsinchu 300
TW

68-8B-0F (hex) China Mobile IOT Company Limited
688B0F (base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area
Chongqing Chongqing 401336
CN

3C-F0-11 (hex) Intel Corporate
3CF011 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D4-9C-DD (hex) AMPAK

Technology,Inc.
D49CDD (base 16) AMPAK Technology,Inc.
3F, No.15-1 Zhonghua Road, Hsinchu Industrail Park, Hukou,
Hsinchu Hsinchu,Taiwan R.O.C. 30352
TW

50-F7-22 (hex) Cisco Systems, Inc
50F722 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

98-09-CF (hex) OnePlus Technology (Shenzhen) Co., Ltd
9809CF (base 16) OnePlus Technology (Shenzhen) Co., Ltd
18C02, 18C03, 18C04 ,18C05,TAIRAN BUILDING,
Shenzhen Guangdong 518000
CN

B8-DE-5E (hex) LONGCHEER TELECOMMUNICATION LIMITED
B8DE5E (base 16) LONGCHEER TELECOMMUNICATION LIMITED
Building 1,No.401,Caobao Rd
Shanghai Xuhui District 200233
CN

F0-5C-19 (hex) Aruba, a Hewlett Packard Enterprise Company
F05C19 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

04-BD-88 (hex) Aruba, a Hewlett Packard Enterprise Company
04BD88 (base 16) Aruba, a Hewlett Packard
Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

9C-1C-12 (hex) Aruba, a Hewlett Packard Enterprise Company
9C1C12 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

A4-E7-E4 (hex) Connex GmbH
A4E7E4 (base 16) Connex GmbH
Elbestrasse 12
Oldenburg 26135
DE

B8-EF-8B (hex) SHENZHEN CANNICE TECHNOLOGY CO.,LTD
B8EF8B (base 16) SHENZHEN CANNICE TECHNOLOGY CO.,LTD
F-20,7A,Baoneng Technology Park
Shenzhen Guangdong 518109
CN

20-B7-80 (hex) Toshiba Visual Solutions Corporation Co.,Ltd
20B780 (base 16) Toshiba Visual Solutions Corporation Co.,Ltd
Shinkawasaki Mitsui Builing West Tower 19F, 1-1-2 Kashimada
Saiwai-ku, Kawasaki-shi Kanagawa 212-0058
JP

B8-18-6F (hex) ORIENTAL MOTOR CO., LTD.
B8186F (base 16) ORIENTAL MOTOR CO., LTD.
5-8-3 Tokodai
Tsukuba Ibaraki 300-2635
JP

00-1A-3F (hex) Intelbras
001A3F (base
16) Intelbras
BR 101, km 210, S/N°
São José Santa Catarina 88104800
BR

14-D4-FE (hex) ARRIS Group, Inc.
14D4FE (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

F0-B3-1E (hex) Universal Electronics, Inc.
F0B31E (base 16) Universal Electronics, Inc.
201 E. Sandpointe Ave
Santa Ana CA 92707
US

EC-A9-FA (hex) GUANGDONG GENIUS TECHNOLOGY CO., LTD.
ECA9FA (base 16) GUANGDONG GENIUS TECHNOLOGY CO., LTD.
#126,BBK Road,Wusha,Chang'An
Dong Guan Guang Dong 523860
CN

00-03-A5 (hex) Medea Corporation
0003A5 (base 16) Medea Corporation
5701 Lindero Canyon Rd.
Wetlake Village CA 91362

US

44-3C-88 (hex) FICOSA MAROC INTERNATIONAL
443C88 (base 16) FICOSA MAROC INTERNATIONAL
Zone Franche Technopolis Rocade Rabat-Salé 11103 Sala Al Jadida - Salé
Salé 11103
MA

84-1C-70 (hex) zte corporation
841C70 (base 16) zte corporation
12/F.,zte R&D building
,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

C4-F8-39 (hex) Actia Automotive
C4F839 (base 16) Actia Automotive
5 rue Jorge Semprun
TOULOUSE 31400
FR

BC-E6-7C (hex) Cambium Networks Limited
BCE67C (base 16) Cambium Networks Limited
Unit B2, Linhay Business Park,
Ashburton Devon TQ13 7UP
GB

7C-1E-06 (hex) New H3C Technologies Co., Ltd
7C1E06 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

F8-91-73 (hex) AEDLE SAS
F89173 (base 16) AEDLE SAS
11 Rue Campagne Première, Cour Intérieure, Entresol, CODE 13B80
Paris IDF 75014
FR

C8-4F-86 (hex) Sophos Ltd
C84F86 (base 16) Sophos Ltd
The Pentagon
Abingdon Oxfordshire OX14 3YP
GB

64-29-ED (hex) AO PKK Milandr
6429ED (base 16) AO PKK Milandr
Gergievsky prospekt, 5

Zelenograd Moscow 124498
RU

CC-D3-9D (hex) IEEE Registration
Authority
CCD39D (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

18-DF-B4 (hex) BOSUNG POWERTEC CO.,LTD.
18DFB4 (base 16) BOSUNG POWERTEC CO.,LTD.
70, Daechang-gil, Judeok-eup
Chungju-si Chungcheongbuk-do 27463
KR

F8-2F-6A (hex) ITEL MOBILE LIMITED
F82F6A (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

C0-D8-34 (hex) xvtec ltd
C0D834 (base 16) xvtec ltd
Ha'nagar 24
Hod Hasharon Israel 4527713
IL

54-47-41 (hex) XCHENG HOLDING
544741 (base 16) XCHENG HOLDING
ROOM 401F, Building 5, No.3000 LONG DONG Avenue, Pudong New District
Shanghai 201203
CN

CC-F7-35 (hex) Amazon Technologies Inc.
CCF735 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

B4-EC-02 (hex) ALPSALPINE CO,.LTD
B4EC02 (base 16) ALPSALPINE CO,.LTD
6-1
Kakuda
Miyagi-Pref 981-1595
JP

64-60-38 (hex) Hirschmann Automation and Control GmbH

646038 (base 16) Hirschmann Automation and Control GmbH
Stuttgarter Straße 45-51
Neckartenzlingen D-72654
DE

64-9D-99 (hex) FS COM INC
649D99 (base 16) FS COM INC
380 Centerpoint Blvd New Castle
New Castle DE 19720
US

00-16-9D (hex) Cisco Systems, Inc
00169D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

78-DD-12 (hex) Arcadyan Corporation
78DD12 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

D4-25-CC (hex) IEEE Registration Authority
D425CC (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

C8-F7-42 (hex) HangZhou Gubei Electronics Technology Co.,Ltd
C8F742 (base 16) HangZhou Gubei Electronics Technology Co.,Ltd
Room 106, No.611 Jianghong Road, Binjiang District, Hangzhou,
Zhejiang, China
Hangzhou ZheJiang 310052
CN

00-6F-F2 (hex) MITSUMI ELECTRIC CO.,LTD.
006FF2 (base 16) MITSUMI ELECTRIC CO.,LTD.
2-11-2, Tsurumaki
Tama-shi Tokyo 206-8567
JP

8C-6D-C4 (hex) Megapixel VR
8C6DC4 (base 16) Megapixel VR
340 S. Lemon Ave
Walnut CA 91789
US

2C-5D-34 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
2C5D34 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

9C-14-63 (hex) Zhejiang Dahua Technology Co., Ltd.
9C1463 (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

30-DF-8D (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
30DF8D (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT
SONGGANG
SHENZHEN GUANGDONG 518105
CN

D4-C9-3C (hex) Cisco Systems, Inc
D4C93C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA
94568
US

E0-75-0A (hex) ALPSALPINE CO,.LTD
E0750A (base 16) ALPSALPINE CO,.LTD
6-1
kakuda-City 981-1595
US

00-19-C1 (hex) ALPSALPINE CO,.LTD
0019C1 (base 16) ALPSALPINE CO,.LTD
1-2-1, Okinouchi,
Soma-city, Fukushima-pref., 976-8501
JP

00-16-FE (hex) ALPSALPINE CO,.LTD
0016FE (base 16) ALPSALPINE CO,.LTD
1-2-1, Okinouchi,
Soma-city, Fukushima-pref., 976-8501
JP

9C-8D-7C (hex) ALPSALPINE CO,.LTD
9C8D7C (base 16) ALPSALPINE CO,.LTD
6-1
Kakuda Miyagi-Pref 981-1595
JP

00-24-33 (hex) ALPSALPINE CO,.LTD
002433 (base 16) ALPSALPINE CO,.LTD
1-2-1, Okinouchi,
Soma-city, Fukushima-pref., 976-8501
JP

00-23-06 (hex) ALPSALPINE CO,.LTD
002306 (base 16) ALPSALPINE CO,.LTD
1-2-1, Okinouchi,
Soma-city, Fukushima-pref., 976-8501
JP

BC-75-36 (hex) ALPSALPINE CO,.LTD
BC7536 (base 16) ALPSALPINE CO,.LTD
nishida 6-1
Kakuda-City Miyagi-Pref 981-1595
JP

E0-AE-5E
(hex) ALPSALPINE CO,.LTD
E0AE5E (base 16) ALPSALPINE CO,.LTD
6-3-36 Furukawanakazato,
Osaki Miyagi-pref 989-6181
JP

48-61-A3 (hex) Concern Axion JSC
4861A3 (base 16) Concern Axion JSC
90, M. Gorkogo St.
Izhevsk Udmurt Republic 426000
RU

D4-B7-61 (hex) Sichuan AI-Link Technology Co., Ltd.
D4B761 (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou,Industrial Park
Anzhou,Industrial Park Sichuan 621000
CN

7C-03-5E (hex) Xiaomi Communications Co Ltd
7C035E (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

44-FE-3B (hex) Arcadyan Corporation
44FE3B (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071

TW

D8-3A-F5 (hex) Wideband Labs LLC
D83AF5 (base 16) Wideband Labs LLC
1027 S Main Street, STE 330
Joplin MO 64801
US

38-D9-A5
(hex) Mikotek Information Inc.
38D9A5 (base 16) Mikotek Information Inc.
3F, No. 20, Aly. 18, Ln. 478, Ruiguang Rd.
Taipei 114
TW

30-4A-26 (hex) Shenzhen Trolink Technology CO, LTD
304A26 (base 16) Shenzhen Trolink Technology CO, LTD
201 B building 4 shijie, Chashu industry 505 block, Baoan airport Sanwei community, Hangcheng street Baoan area.
Shenzhen GuangDong 518000
CN

D4-67-D3 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
D467D3 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

A4-12-32 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
A41232 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

48-E3-C3 (hex) JENOPTIK Advanced Systems GmbH
48E3C3 (base 16) JENOPTIK Advanced Systems GmbH
Feldstrasse 155
Wedel Schleswig-Holstein
22880
DE

CC-35-5A (hex) SecuGen Corporation
CC355A (base 16) SecuGen Corporation
2065 Martin Ave, Suite 108
Santa Clara CA 95050
US

4C-87-5D (hex) Bose Corporation

4C875D (base 16) Bose Corporation
The Mountain
Framingham MA 01701-9168
US

B0-E7-DE (hex) Homa Technologies JSC
B0E7DE (base 16) Homa Technologies JSC
Building 5, Quang Trung Software City, District 12
Ho Chi Minh 729226
VN

00-D2-79 (hex) VINGROUP JOINT STOCK COMPANY
00D279 (base 16) VINGROUP JOINT STOCK COMPANY
Number 7, Bang Lang 1 street, Long Bien district
Ha Noi Ha Noi 100000
VN

00-00-4C (hex) NEC Corporation
00004C (base 16) NEC Corporation
7-1 SHIBA 5-CHOME
TOKYO 108-01 0000
JP

8C-CF-8F (hex) ITC Systems
8CCF8F (base 16) ITC Systems
800 Fee Fee Road
St Louis MO 63043
US

4C-96-2D (hex) Fresh AB
4C962D (base 16) Fresh AB
Gransholmsvägen 136
Gemla 35599
SE

28-75-D8
(hex) FUJIAN STAR-NET COMMUNICATION CO.,LTD
2875D8 (base 16) FUJIAN STAR-NET COMMUNICATION CO.,LTD
19-22# Building, Star-net Science Plaza, Juyuanzhou,
FUZHOU FUJIAN 350002
CN

48-4A-30 (hex) George Robotics Limited
484A30 (base 16) George Robotics Limited
Salisbury House, Station Road
Cambridge CB1 2LA
GB

90-E2-02 (hex) Texas Instruments
90E202 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

4C-E5-AE (hex) Tianjin Beebox Intelligent Technology Co.,Ltd.
4CE5AE (base 16) Tianjin Beebox Intelligent Technology Co.,Ltd.
Room 103NO.1 of the 2nd Street
Tianjin Pilot Free Trade Zone Airport EconomicArea Airport International Logistics Zone, Tianjin 300300
CN

F4-C7-C8 (hex) Kelvin Inc.
F4C7C8 (base 16) Kelvin Inc.
400 Centennial Parkway, Suite 190
Louisville CO 80027
US

80-54-6A (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
80546A (base 16) SHENZHEN
GONGJIN ELECTRONICS CO.,LT
SONGGANG
SHENZHEN GUANGDONG 518105
CN

B4-47-F5 (hex) Earda Technologies co Ltd
B447F5 (base 16) Earda Technologies co Ltd
Block A,Lianfeng Creative Park, #2 Jisheng Rd., Nansha District
Guangzhou Guangdong 511455
CN

74-8A-0D (hex) ARRIS Group, Inc.
748A0D (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

CC-75-E2 (hex) ARRIS Group, Inc.
CC75E2 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

A8-9C-A4 (hex) Furrion Limited
A89CA4 (base 16) Furrion Limited
Units 503C & 505-508, Level 5, Core D, Cyberport 3, 100 Cyberport Road
Hong Kong 00000
HK

58-9E-C6 (hex) Gigaset Communications GmbH
589EC6 (base 16) Gigaset Communications GmbH
Frankenstrasse 2
Bocholt NRW 46395
DE

64-58-AD (hex) China Mobile IOT Company Limited
6458AD (base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road,
NanAn Area
Chongqing Chongqing 401336
CN

84-A9-3E (hex) Hewlett Packard
84A93E (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

34-93-42 (hex) TTE Corporation
349342 (base 16) TTE Corporation
7/F, Building 22E 22 Science Park East Avenue Hong Kong Science Park Shatin, N.T.
Hong Kong 999077
HK

1C-F2-9A (hex) Google, Inc.
1CF29A (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

30-24-78 (hex) Sagemcom Broadband SAS
302478 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

A0-A3-B8 (hex) WISCLOUD
A0A3B8 (base 16) WISCLOUD
Tech Park Xia Sha
Hangzhou Zhejiang 310000
CN

38-F9-D3 (hex) Apple, Inc.
38F9D3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

FC-18-3C (hex) Apple, Inc.
FC183C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

18-4B-DF (hex) Caavo Inc
184BDF (base 16) Caavo Inc
1525 McCarthy Blvd., #1182
Milpitas 95035
US

FC-77-74 (hex) Intel Corporate
FC7774 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

70-0B-4F (hex) Cisco Systems, Inc
700B4F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E4-38-8C (hex) Digital Products Limited
E4388C (base 16) Digital Products Limited
53 Clark Road
Rothesay New Brunswick E2E 2K9
CA

B8-9A-9A (hex) Xin Shi Jia Technology (Beijing) Co.,Ltd
B89A9A (base 16) Xin Shi Jia Technology (Beijing) Co.,Ltd
Room 1002, A Tower, Zhongguancun E World Wealth Center, No.11, Zhongguancun Street, Haidian District, Beijing City
Beijing Beijing 100190
CN

64-C7-53 (hex) Apple, Inc.
64C753 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B0-C3-87 (hex) GOEFER, Inc.
B0C387

(base 16) GOEFER, Inc.
118 N. Market St.
Frederick MD 21701
US

08-6B-D7 (hex) Silicon Laboratories
086BD7 (base 16) Silicon Laboratories
7000 W. William Cannon Dr.
Austin TX 78735
US

A4-0C-66 (hex) Shenzhen Colorful Yugong Technology and Development Co., Ltd.
A40C66 (base 16) Shenzhen Colorful Yugong Technology and Development Co., Ltd.
13F, Central Business Tower, No.88 Fuhua First Rd., Futian District, Shenzhen, Guangdong, China
Shenzhen Guangdong 518000
CN

44-55-B1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
4455B1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

98-F9-C7 (hex) IEEE Registration Authority
98F9C7 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

D8-A7-56 (hex) Sagemcom Broadband SAS
D8A756 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil
Malmaison Cedex hauts de seine 92848
FR

D8-D6-F3 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
D8D6F3 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

8C-7B-F0 (hex) Xufeng Development Limited
8C7BF0 (base 16) Xufeng Development Limited
FLAT/RM1616 16F INTERATIONAL TRADE CENTRE 11-19 SHA TSUI RD TSUEN WAN
HongKong HongKong 999077
HK

E0-A5-09 (hex) Bitmain Technologies Inc
E0A509 (base 16) Bitmain Technologies Inc
Building 25, North Olympic Science & Technology Park, Baosheng South Road, Haidian District, Beijing, China
Beijing BEIJING CHINA
CN

3C-5C-C4 (hex) Amazon Technologies Inc.
3C5CC4 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

F4-39-09 (hex) Hewlett Packard
F43909 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

20-1F-31 (hex) Inteno Broadband
Technology AB
201F31 (base 16) Inteno Broadband Technology AB
Stensätravägen 13
Skärholmen SE 127 39
SE

6C-2C-DC (hex) Skyworth Digital Technology(Shenzhen) Co.,Ltd
6C2CDC (base 16) Skyworth Digital Technology(Shenzhen) Co.,Ltd
7F,Block A,Skyworth Building,
Shenzhen Guangdong 518057
CN

78-35-A0 (hex) Zurn Industries LLC
7835A0 (base 16) Zurn Industries LLC
1747 Commerce Way
Paso Robles CA 93446
US

54-83-3A (hex) Zyxel Communications Corporation
54833A (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

24-84-98 (hex) Beijing Jiaoda Microunion Tech.Co.,Ltd.
248498 (base 16) Beijing Jiaoda Microunion Tech.Co.,Ltd.
4-5/F,89 Building, First Section No.44 Gaoliangqiao Xie Street, Haidian District, Beijing, China
Beijing Beijing 100044
CN

2C-CC-44 (hex) Sony Interactive Entertainment Inc.
2CCC44 (base 16) Sony Interactive
Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

F4-7D-EF (hex) Samsung Electronics Co.,Ltd
F47DEF (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

7C-8B-B5 (hex) Samsung Electronics Co.,Ltd
7C8BB5 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

78-70-52 (hex) Welotec GmbH
787052 (base 16) Welotec GmbH
zum Hagenbach 7
Laer NRW 48366
DE

D8-A9-8B (hex) Texas Instruments
D8A98B (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

A8-3F-A1 (hex) IEEE Registration Authority
A83FA1 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

F4-DB-E6 (hex) Cisco Systems, Inc
F4DBE6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

C0-74-AD (hex) Grandstream Networks, Inc.
C074AD (base 16) Grandstream Networks,
Inc.
1297 Beacon Street

Brookline MA 02446
US

F0-95-F1 (hex) Carl Zeiss AG
F095F1 (base 16) Carl Zeiss AG
Carl-Zeiss-Straße 22
Oberkochen 73447
DE

00-F4-8D (hex) Liteon Technology Corporation
00F48D (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

70-2E-D9 (hex) Guangzhou Shiyuan Electronics Co., Ltd.
702ED9 (base 16) Guangzhou Shiyuan Electronics Co., Ltd.
No.6, 4th Yunpu Road, Yunpu industry District
Gunagzhou Guangdong 510530
CN

70-19-2F (hex) HUAWEI TECHNOLOGIES CO.,LTD
70192F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

6C-9B-C0 (hex) Chemoptics Inc.
6C9BC0 (base 16) Chemoptics Inc.
261, Techno 2-ro, Yuseong-gu
Daejeon 34026
KR

10-B9-F7 (hex) Niko-Servodan
10B9F7 (base 16) Niko-Servodan
Stenager 5
Sønderborg 6400
DK

14-EF-CF
(hex) SCHREDER
14EFCF (base 16) SCHREDER
Rue Lusambo 67
Brussels 1190
BE

38-30-F9 (hex) LG Electronics (Mobile Communications)
3830F9 (base 16) LG Electronics (Mobile Communications)

60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

58-E6-BA (hex) Apple, Inc.
58E6BA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

18-A7-F1 (hex) Qingdao Haier Technology Co.,Ltd
18A7F1 (base 16) Qingdao Haier Technology Co.,Ltd
Building A01,Haier Information Park, No.1 Haier Road,
Qingdao Shandong 266101
CN

90-E1-7B (hex) Apple, Inc.
90E17B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-1C-79 (hex) Apple, Inc.
D81C79 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

10-C2-2F (hex) China Entropy Co., Ltd.
10C22F (base 16) China Entropy Co., Ltd.
Haidian District
Beijing 100085
CN

BC-38-65 (hex) JWCNETWORKS
BC3865
(base 16) JWCNETWORKS
114, Gasan digital 2-ro, Geumcheon-gu,
Seoul 08506
KR

04-EB-40 (hex) Cisco Systems, Inc
04EB40 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

18-01-F1 (hex) Xiaomi Communications Co Ltd

1801F1 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

44-E4-EE (hex) Wistron Neweb Corporation
44E4EE (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

C0-84-7D (hex) AMPAK Technology, Inc.
C0847D (base 16) AMPAK Technology, Inc.
No.1,Jen Ai Road Hsinchu Industrial Park, Hukou
Hsinchu Taiwan ROC. 30352
TW

C4-4F-33 (hex) Espressif Inc.
C44F33 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

54-6A-D8 (hex) Elster
Water Metering
546AD8 (base 16) Elster Water Metering
Mas des Cavaliers II, 471 Rue Charles Nungesser
Mauguio 34130
FR

00-A5-BF (hex) Cisco Systems, Inc
00A5BF (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

DC-41-E5 (hex) Shenzhen Zhixin Data Service Co., Ltd.
DC41E5 (base 16) Shenzhen Zhixin Data Service Co., Ltd.
Baoyuan Road F518 Fashion Creative Park F3 Blg208
Baoan District, Shenzhen Guangdong 518101
CN

C8-BA-E9 (hex) QDIS
C8BAE9 (base 16) QDIS
#512, Buliding B, 168 GaSanDigital 1st, GeumChun-Gu
SEOUL 08507
KR

04-09-A5 (hex) HFR, Inc.
0409A5 (base 16) HFR, Inc.
5F, Hana EZ Tower
Sungnam-si Kyunggi-do 463-870
KR

7C-D3-0A (hex) INVENTEC CORPORATION
7CD30A (base 16) INVENTEC CORPORATION
Inventec Building, 66 Hou-Kang Street
Taipei 111
TW

00-1E-33 (hex) INVENTEC CORPORATION
001E33 (base 16) INVENTEC CORPORATION
Inventec
Building, 66 Hou-Kang Street
Taipei 111
TW

FC-1D-84 (hex) Autobase
FC1D84 (base 16) Autobase
1201, Biz Center, SKnTechno Park, 124, Sagimakgol-ro, Jungwon-gu, Seongnam-si, Gyeonggi-do
Seongnam Gyeonggi 462-721
KR

24-21-24 (hex) Nokia
242124 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

94-91-7F (hex) ASKEY COMPUTER CORP
94917F (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

00-26-54 (hex) 3COM
002654 (base 16) 3COM
5353 Betsy Ross Drive
Santa Clara 95054-1162
US

00-50-DA (hex) 3COM
0050DA (base 16) 3COM
5400 BAYFRONT PLAZA
SANTA CLARA CA 95052
US

00-04-76 (hex) 3COM
000476 (base 16) 3COM
5400 Bayfront Plaza
Santa Clara CA 95052
US

00-04-75 (hex) 3COM
000475 (base 16) 3COM
5400 Bayfront Plaza
Santa Clara CA 95052
US

9C-0C-DF (hex) GUANGDONG
OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
9C0CDF (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

44-22-F1 (hex) S.FAC, INC
4422F1 (base 16) S.FAC, INC
Bldg A203 Techno2 ro 187
Yuseong-Gu Daejeon 34025
KR

00-D0-96 (hex) 3COM EUROPE LTD
00D096 (base 16) 3COM EUROPE LTD
BOUNDARY WAY
vvvvv UNITED KINGDOM
GB

30-09-F9 (hex) IEEE Registration Authority
3009F9 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

B4-DD-D0 (hex) Continental Automotive Hungary Kft
B4DDD0 (base 16) Continental Automotive Hungary Kft
Napmátka u. 6.
Budapest Pest H-1106
HU

48-F0-27 (hex) Chengdu newifi Co.,Ltd
48F027 (base 16) Chengdu newifi Co.,Ltd
C11 Building 2001,No.219 ,2nd Tianhua Road,Hi-tech zone
Chengdu Sichuan 610000

CN

B4-2E-99 (hex) GIGA-BYTE TECHNOLOGY CO.,LTD.
B42E99 (base 16) GIGA-BYTE
TECHNOLOGY CO.,LTD.
Pin-Jen City, Taoyuan, Taiwan, R.O.C.
Pin-Jen Taoyuan 324
TW

34-2C-C4 (hex) Compal Broadband Networks, Inc.
342CC4 (base 16) Compal Broadband Networks, Inc.
13F., No.1, Taiyuan 1st St.
Zhubei City Hsinchu County 30265
TW

14-C6-97 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
14C697 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

7C-03-AB (hex) Xiaomi Communications Co Ltd
7C03AB (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

DC-16-B2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
DC16B2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

24-FB-65 (hex) HUAWEI TECHNOLOGIES CO.,LTD
24FB65 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2
Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

0C-B5-27 (hex) HUAWEI TECHNOLOGIES CO.,LTD
0CB527 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

14-E9-B2 (hex) Fiberhome Telecommunication Technologies Co.,LTD
14E9B2 (base 16) Fiberhome Telecommunication Technologies Co.,LTD

No.5 DongXin Road
Wuhan Hubei 430074
CN

18-AC-9E (hex) ITEL MOBILE LIMITED
18AC9E (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

EC-84-B4 (hex) CIG SHANGHAI CO LTD
EC84B4 (base 16) CIG SHANGHAI CO LTD
5th Floor, Building 8 No 2388 Chenhang Road
SHANGHAI 201114
CN

C8-54-4B (hex) Zyxel Communications Corporation
C8544B (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu
Taiwan 300
TW

4C-11-59 (hex) Vision Information & Communications
4C1159 (base 16) Vision Information & Communications
151, Ulseong-gil
Pyeongtaek-si Gyeonggi-do 17823
KR

50-DC-FC (hex) ECOCOM
50DCFC (base 16) ECOCOM
15ST,Block A,Fortune Plaza, No.7002 ShenNan Avenue, Futian District
Shenzhen Guangdong 518040
CN

70-0B-01 (hex) Sagemcom Broadband SAS
700B01 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

5C-26-23 (hex) WaveLynx Technologies Corporation
5C2623 (base 16) WaveLynx Technologies Corporation
100 Technology Drive, Building B, Ste 150
Broomfield CO 80021
US

30-38-55 (hex) Nokia Corporation

303855 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu Ou 90590
FI

00-90-93 (hex) EIZO Corporation
009093 (base 16) EIZO Corporation
153 Shimokashiwano
Hakusan Ishikawa 924-8856
JP

F0-9F-FC
(hex) SHARP Corporation
F09FFC (base 16) SHARP Corporation
1 Takumi-cho, Sakai-ku
Sakai City Osaka 590-8522
JP

00-D0-7B (hex) COMCAM INTERNATIONAL INC
00D07B (base 16) COMCAM INTERNATIONAL INC
1140 McDermott Drive Suite 200
WEST CHESTER PA 19380
US

78-52-4A (hex) Optonic GmbH
78524A (base 16) Optonic GmbH
Zollhallenstr. 11
Freiburg 79106
DE

C4-6E-7B (hex) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
C46E7B (base 16) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
Bldg56A,6/F,Baotian Rd3,Xixiang Town,Baoan District,
Shenzhen Guangdong 518000
CN

00-B6-70 (hex) Cisco Systems, Inc
00B670 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

AC-64-17 (hex) Siemens AG
AC6417 (base 16) Siemens AG
Werner-von-Siemens Strasse 50
Amberg 92224
DE

34-79-16 (hex) HUAWEI TECHNOLOGIES CO.,LTD
347916 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road,
Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C0-48-FB (hex) Shenzhen JingHanDa Electronics Co.Ltd
C048FB (base 16) Shenzhen JingHanDa Electronics Co.Ltd
5th Floor,No 4 ,Road 1,ShangXue Technology industrial Park,LongGang district,ShenZhen,GuangDong,China
ShenZhen GuangDong 518129
CN

20-E8-82 (hex) zte corporation
20E882 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

00-B5-D0 (hex) Samsung Electronics Co.,Ltd
00B5D0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

14-96-E5 (hex) Samsung Electronics Co.,Ltd
1496E5 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D0-7F-A0 (hex) Samsung Electronics Co.,Ltd
D07FA0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-04-9F (hex) Freescale Semiconductor
00049F
(base 16) Freescale Semiconductor
2100 East Elliot
Tempe AZ 85284
US

0C-B5-DE (hex) Alcatel Lucent
0CB5DE (base 16) Alcatel Lucent
Via Energy Park, 14
Vimercate MB 20871

IT

00-0B-3B (hex) devolo AG
000B3B (base 16) devolo AG
Charlottenburger Allee 67
Aachen NRW 52068
DE

24-05-88 (hex) Google, Inc.
240588 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

0C-1C-57 (hex) Texas Instruments
0C1C57 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

80-6F-B0 (hex) Texas Instruments
806FB0 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

88-3F-99 (hex) Siemens AG
883F99 (base 16) Siemens AG
Werner-von-Siemens-Str. 48
Amberg 92224
DE

70-5A-B6 (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
705AB6 (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO. 15, THE 3RD
Street KUNSHAN EXPORT PROCESSING ZONE
KUNSHAN SUZHOU 215300
CN

20-1A-06 (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
201A06 (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO. 15, THE 3RD Street KUNSHAN EXPORT PROCESSING ZONE
KUNSHAN SUZHOU 215300
CN

F8-A9-63 (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
F8A963 (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO. 15, THE 3RD Street KUNSHAN EXPORT PROCESSING ZONE

KUNSHAN SUZHOU 215300
CN

00-9D-6B (hex) Murata Manufacturing Co., Ltd.
009D6B (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

DC-0E-A1 (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
DC0EA1 (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
No.25, Third Avenue, A Zone, Kunshan Comprehensive Free Trade Zone,, Jiangsu,
KUNSHAN SUZHOU 215300
CN

B8-70-F4 (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
B870F4 (base 16) COMPAL
INFORMATION (KUNSHAN) CO., LTD.
NO. 25, THE 3RD Street KUNSHAN EXPORT PROCESSING ZONE
KUNSHAN SUZHOU 215300
CN

1C-39-47 (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
1C3947 (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO. 15, THE 3RD Street KUNSHAN EXPORT PROCESSING ZONE
KUNSHAN SUZHOU 215300
CN

34-27-92 (hex) FREEBOX SAS
342792 (base 16) FREEBOX SAS
16 rue de la Ville l'Eveque
PARIS IdF 75008
FR

7C-6D-A6 (hex) Superwave Group LLC
7C6DA6 (base 16) Superwave Group LLC
poselok Krasnaya Zarya, dom 15
Vsevolozhskiy raiyon Leningradskaya oblast 193149
RU

00-06-EC (hex) Harris Corporation
0006EC (base 16) Harris Corporation
1025 West NASA Blvd
Melbourne FL 32919
US

40-A1-08 (hex) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
40A108 (base 16) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.

No.19, Gaoxin 4th Road, Wuhan East Lake High-tech
Zone, Wuhan
Wuhan Hubei 430000
CN

D0-16-B4 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D016B4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-BB-60 (hex) Intel Corporate
00BB60 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

34-66-EA (hex) VERTU INTERNATIONAL CORPORATION LIMITED
3466EA (base 16) VERTU INTERNATIONAL CORPORATION LIMITED
25 St Thomas Street, Winchester, Hampshire, United Kingdom
Winchester Hampshire SO23 9HJ
GB

28-38-5C (hex) FLEXTRONICS
28385C (base 16) FLEXTRONICS
Carretera Base Aerea 5850 int 4
Zapopan Jalisco 45136
MX

EC-6F-0B (hex) FADU, Inc.
EC6F0B (base 16) FADU, Inc.
4th FL, 8, Bongeunsa-ro 68-gil, Gangnam-gu
Seoul 06153
KR

38-8B-59 (hex) Google, Inc.
388B59 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

88-01-18
(hex) BLT Co
880118 (base 16) BLT Co
Dongan-gu Burim-ro 170beon-gil 44
Anyangsi Kyunggido 14055
KR

A4-26-18 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
A42618 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

34-E1-2D (hex) Intel Corporate
34E12D (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

20-A8-B9 (hex) SIEMENS AG
20A8B9 (base 16) SIEMENS AG
Oestliche Rheinbrueckenstrasse 50
Karlsruhe Baden Wuerttemberg 76187
DE

F0-F0-8F (hex) Nextek Solutions Pte Ltd
F0F08F (base 16) Nextek Solutions Pte Ltd
105 Cecil Street, #06-01 The Octagon
Singapore Singapore 069534
SG

8C-B0-E9 (hex) Samsung Electronics.,LTD
8CB0E9 (base 16) Samsung Electronics.,LTD
129, Samsung-ro, Yeongtong-gu
Suwon Gyeonggi-Do 443-742
KR

A4-61-91 (hex) NamJunSa
A46191
(base 16) NamJunSa
12, Gimhae-daero 2635 beon-gil
Gimhae-si Gyeongsangnam-do 50932
KR

84-A2-4D (hex) Birds Eye Systems Private Limited
84A24D (base 16) Birds Eye Systems Private Limited
123-126, B Wing First Floor, Chintanmani Plaza, Mohan Studio Compound, Andheri-Kurla Road, Andheri East
Mumbai Maharashtra 400099
IN

D0-EF-C1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D0EFC1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-18-B5 (hex) Magna Carta
0018B5 (base 16) Magna Carta
Naritaweg 126
Amsterdam Noord Holland 1043 CA
NL

D8-7E-B1 (hex) x.o.ware, inc.
D87EB1 (base 16) x.o.ware, inc.
114 E. Haley St., Ste N
Santa Barbara California 93101
US

00-17-B6 (hex) Aquantia Corporation
0017B6 (base 16) Aquantia Corporation
700 Tasman Drive
Milpitas CA 95035
US

10-59-17 (hex) Tonal
105917 (base 16) Tonal
1074
Folsom St
San Francisco 94103
US

74-59-33 (hex) Danal Entertainment
745933 (base 16) Danal Entertainment
9th Fl. Bundang First Tower, 55 Bundang-ro, Bundang-gu
Seongnam-si Gyeonggi-do 13591
KR

EC-58-EA (hex) Ruckus Wireless
EC58EA (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

48-57-02 (hex) HUAWEI TECHNOLOGIES CO.,LTD
485702 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D4-52-51 (hex) IBT Ingenieurbureau Broennimann Thun
D45251 (base 16) IBT Ingenieurbureau Broennimann Thun
Kasernenstrasse 5
Thun Bern 3600

CH

7C-6B-9C (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
7C6B9C (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

70-89-CC (hex) China Mobile Group Device Co.,Ltd.
7089CC (base
16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

50-61-BF (hex) Cisco Systems, Inc
5061BF (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-09-DF (hex) Vestel Elektronik San ve Tic. A.S.
0009DF (base 16) Vestel Elektronik San ve Tic. A.S.
Organize san
Manisa Turket 45030
TR

64-4F-42 (hex) JETTER CO., Ltd.
644F42 (base 16) JETTER CO., Ltd.
265-40 Emukaecho Tanomoto
Sasebo-shi Nagasaki 859-6134
JP

DC-AF-68 (hex) WEIFANG GOERTEK ELECTRONICS CO.,LTD
DCAF68 (base 16) WEIFANG GOERTEK ELECTRONICS CO.,LTD
Gaoxin 2 Road, Free Trade Zone,Weifang,Shandong,261205,P.R.China
Weifang Shandong 261205
CN

CC-7B-61 (hex) NIKKISO CO., LTD.
CC7B61 (base 16) NIKKISO CO., LTD.
Yebisu Garden Place Tower 22nd Floor, 20-3, Ebisu 4-Chome
Shibuya-ku Tokyo 150-6022
JP

9C-71-3A (hex) HUAWEI TECHNOLOGIES CO.,LTD
9C713A

(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

2C-97-B1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
2C97B1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

24-EC-51 (hex) ADF Technologies Sdn Bhd
24EC51 (base 16) ADF Technologies Sdn Bhd
Plot 88F, Lintang Bayan Lepas 10, Bayan Lepas Industrial Park Phase IV
Bayan Lepas Pulau Pinang 11900
MY

88-2D-53 (hex) Baidu Online Network Technology (Beijing) Co., Ltd.
882D53 (base 16) Baidu Online Network Technology (Beijing) Co., Ltd.
Baidu Campus, No.10 Shangdi 10th Street, Haidian District Beijing 100085 CN
Beijing 100085
CN

00-D0-B5 (hex) IPricot formerly DotCom
00D0B5 (base 16) IPricot formerly DotCom
10-12, avenue de Verdun
La-Garenne-Colombes F-92250
FR

2C-5B-E1 (hex) Centripetal Networks,
Inc
2C5BE1 (base 16) Centripetal Networks, Inc
2251 Corporate Park Drive, Suite 150
Herndon VA 201715806
US

DC-EF-CA (hex) Murata Manufacturing Co., Ltd.
DCEFCA (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

00-BC-60 (hex) Cisco Systems, Inc
00BC60 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

70-0F-6A (hex) Cisco Systems, Inc
700F6A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

74-6B-AB (hex) GUANGDONG ENOK COMMUNICATION CO., LTD
746BAB (base 16) GUANGDONG ENOK COMMUNICATION CO., LTD
NO.139 Lixiang road, Songmushan Dalang Town
Dongguan, Guangdong 523770
CN

0C-B6-D2 (hex) D-Link International
0CB6D2 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

78-29-ED (hex) ASKEY COMPUTER CORP
7829ED
(base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

B8-B7-F1 (hex) Wistron Neweb Corporation
B8B7F1 (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

80-50-F6 (hex) ITEL MOBILE LIMITED
8050F6 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

A8-CA-B9 (hex) SAMSUNG ELECTRO MECHANICS CO., LTD.
A8CAB9 (base 16) SAMSUNG ELECTRO MECHANICS CO., LTD.
314, Maetan3-Dong, Yeongtong-Gu
SUWON KYUNGGI-DO 443-743
KR

8C-F2-28 (hex) MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
8CF228 (base 16) MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
Mid-Fourth Flr.,Building 28,Cui Xi Fourth Road,Ke Yuan West,Nanshan
Shenzhen Guangdong 518057
CN

10-8E-E0 (hex) Samsung Electronics Co.,Ltd
108EE0 (base 16) Samsung Electronics
Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

FC-A6-21 (hex) Samsung Electronics Co.,Ltd
FCA621 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F8-C3-9E (hex) HUAWEI TECHNOLOGIES CO.,LTD
F8C39E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-4A-0C (hex) Sercomm Corporation.
944A0C (base 16) Sercomm Corporation.
3F,No.81,Yu-Yih Rd.,Chu-Nan Chen
Miao-Lih Hsuan 115
TW

00-0F-A2 (hex) 2xWireless
000FA2 (base 16) 2xWireless
1065 Maurader st
Chico CA 95973
US

00-0B-B2 (hex) SMALLBIG TECHNOLOGY
000BB2 (base 16) SMALLBIG TECHNOLOGY
3F Dongsung Bldg. 720-9 Yoksamdong
Gangnamgu Seoul 135-080
KR

F4-03-2F (hex) Reduxio Systems
F4032F (base 16) Reduxio Systems
2 Granit St
Petach Tikvah 4951446
IL

7C-41-A2 (hex) Nokia
7C41A2
(base 16) Nokia
600 March Road

Kanata Ontario K2K 2E6
CA

BC-32-5F (hex) Zhejiang Dahua Technology Co., Ltd.
BC325F (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

50-5B-C2 (hex) Liteon Technology Corporation
505BC2 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

6C-21-A2 (hex) AMPAK Technology, Inc.
6C21A2 (base 16) AMPAK Technology, Inc.
No.1,Jen Ai Road Hsinchu Industrial Park, Hukou
Hsinchu Taiwan ROC. 30352
TW

9C-2F-73 (hex) Universal Tiancheng Technology (Beijing) Co., Ltd.
9C2F73 (base 16) Universal Tiancheng Technology (Beijing) Co., Ltd.
13 floor,Changxin Building,Anding Road No.39,Chaoyang District,Beijing
Beijing Beijing 100029
CN

E8-D0-99 (hex) Fiberhome Telecommunication Technologies Co.,LTD
E8D099 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5
DongXin Road
Wuhan Hubei 430074
CN

00-30-5E (hex) Abelko Innovation
00305E (base 16) Abelko Innovation
Box 808
Lulea 97125
SE

FC-6B-F0 (hex) TOPWELL INTERNATIONAL HOLDINDS LIMITED
FC6BF0 (base 16) TOPWELL INTERNATIONAL HOLDINDS LIMITED
Room 1301-5,Buliding China Youshe,NO.6013,ShenNan Road,CheGong Temple,FuTian District,ShenZhen,GuangDong province,China
SHENZHEN GUANGDONG 518000
CN

00-14-77 (hex) Trilliant

001477 (base 16) Trilliant
950 Cowie st.
Granby Quebec J2J 1P2
CA

00-07-9B (hex) Aurora Networks
00079B (base 16) Aurora Networks
2803 Mission College Blvd.
Santa Clara CA 95054
US

C8-86-29 (hex) Shenzhen Duubee Intelligent Technologies Co.,LTD.
C88629 (base 16) Shenzhen Duubee Intelligent Technologies Co.,LTD.
9F, Block B, Unicenter, Xin'an Sub district, Bao'an District
Shenzhen GuangDong 518000
CN

54-B2-03 (hex) PEGATRON CORPORATION
54B203 (base 16) PEGATRON
CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

38-68-DD (hex) INVENTEC CORPORATION
3868DD (base 16) INVENTEC CORPORATION
NO.88, DAZHI RD.
TAOYUAN 33068
TW

3C-6A-A7 (hex) Intel Corporate
3C6AA7 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

A0-28-ED (hex) HMD Global Oy
A028ED (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

AC-54-74 (hex) China Mobile IOT Company Limited
AC5474 (base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area
Chongqing Chongqing 401336
CN

20-39-56 (hex) HMD Global Oy
203956 (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

78-AF-E4 (hex) Comau S.p.A
78AFE4 (base 16) Comau S.p.A
via Rivalta 30
Grugliasco (TO) 10095
IT

90-A1-37 (hex) Beijing Splendidtel Communication Technology Co,. Ltd
90A137 (base 16) Beijing
Splendidtel Communication Technology Co,. Ltd
4 Floor,Taixing Tower,No.11 Huayuan East Road. Haidian District
Beijing Beijing 100191
CN

80-02-9C (hex) Gemtek Technology Co., Ltd.
80029C (base 16) Gemtek Technology Co., Ltd.
No.15-1 Zhonghua Road
Hukou Hsinchu 30352
TW

D8-32-E3 (hex) Xiaomi Communications Co Ltd
D832E3 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

94-87-E0 (hex) Xiaomi Communications Co Ltd
9487E0 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

38-AF-29 (hex) Zhejiang Dahua Technology Co., Ltd.
38AF29 (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

14-16-9E (hex) Wingtech Group (HongKongLimited
14169E (base 16) Wingtech
Group (HongKongLimited
FLAT/RM 1903 19/F PODIUM PLAZA 5HANOI ROAD TSIM SHA TSUI
Hong Kong Hong Kong 999077

HK

10-7B-A4 (hex) Olive & Dove Co.,Ltd.
107BA4 (base 16) Olive & Dove Co.,Ltd.
803 Polaris bldg., 381, Seongnam-daero, Bundang-gu
Gyeonggi-do Seongnam-si 13555
KR

D0-C5-D3 (hex) AzureWave Technology Inc.
D0C5D3 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

8C-1C-DA (hex) IEEE Registration Authority
8C1CDA (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

88-3F-4A (hex) Texas Instruments
883F4A (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

30-0A-C5 (hex) Ruio telecommunication technologies Co., Limited
300AC5 (base 16) Ruio telecommunication technologies Co., Limited
Room 2501, Broadegate Software Building, No,1003 Keyuan Road,
Shenzhen guangdong 518000
CN

00-E0-65
(hex) OPTICAL ACCESS INTERNATIONAL
00E065 (base 16) OPTICAL ACCESS INTERNATIONAL
500 WEST CUMMINGS PL. #3400
WOBURN MA 01801
US

44-66-FC (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
4466FC (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

D8-8A-3B (hex) UNIT-EM
D88A3B (base 16) UNIT-EM
167 Merchants Street

Valletta VLT 1174
MT

EC-5A-86 (hex) Yulong Computer Telecommunication Scientific (Shenzhen) Co.,Ltd
EC5A86 (base 16) Yulong Computer Telecommunication Scientific (Shenzhen) Co.,Ltd
Road NO2, West of Industrial Park,North of Science & Technology Park
Dongguan Guangdong 518057
CN

C4-BA-A3 (hex) Beijing Winicssec Technologies Co., Ltd.
C4BAA3 (base 16) Beijing Winicssec Technologies Co., Ltd.
F block 9th floor 907 of Jiahua Building, No.9 Shangdi 3rd Street
Haidian District Beijing 100085
CN

CC-C2-E0
(hex) Raisecom Technology CO., LTD
CCC2E0 (base 16) Raisecom Technology CO., LTD
No. 11, East Area, No. 10 Block, East Xibeiwang Road
Beijing 100094
CN

14-09-DC (hex) HUAWEI TECHNOLOGIES CO.,LTD
1409DC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

38-BA-F8 (hex) Intel Corporate
38BAF8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-07-A8 (hex) Haier Group Technologies Ltd
0007A8 (base 16) Haier Group Technologies Ltd
No. 1 Haier Road, Hi-tech Zone
00000 00000
CN

50-A0-09 (hex) Xiaomi Communications Co Ltd
50A009 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

9C-FE-A1 (hex) Fiberhome Telecommunication Technologies Co.,LTD
9CFEA1 (base 16) Fiberhome Telecommunication Technologies

Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

88-96-4E (hex) ARRIS Group, Inc.
88964E (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

C0-EE-B5 (hex) Enice Network.
C0EEB5 (base 16) Enice Network.
NO.30, Shuige Rd, JiangNing Economic Development Zone, Nanjing
Nanjing 211106
CN

60-DE-F3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
60DEF3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-40-98 (hex) DRESSLER GMBH & CO.
004098 (base 16) DRESSLER GMBH & CO.
KACKERTSTRASSE 10

DE

00-1D-FA (hex) Fujian LANDI Commercial Equipment Co.,Ltd
001DFA (base 16) Fujian LANDI Commercial Equipment Co.,Ltd
Building 17,the 1st Section ,Fuzhou Software Park
No.89 Software Road Fuzhou ,Fujian 350003
CN

98-14-D2 (hex) Avonic
9814D2 (base 16) Avonic
Distributieweg 60
Delfgauw
2645EJ
NL

78-F9-B4 (hex) Nokia Solutions and Networks GmbH & Co. KG
78F9B4 (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

D0-76-E7 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
D076E7 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

9C-A6-15 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
9CA615 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

E4-4E-76 (hex) CHAMPIONTECH ENTERPRISE (SHENZHEN) INC
E44E76 (base 16) CHAMPIONTECH ENTERPRISE (SHENZHEN) INC
Against Office of Dong-Zhou Residential Committee Guang Ming
Shenzhen 518000
CN

08-F6-9C (hex) Apple, Inc.
08F69C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

04-FA-83 (hex) Qingdao Haier Technology Co.,Ltd
04FA83 (base 16) Qingdao Haier Technology Co.,Ltd
Building A01,Haier Information Park, No.1 Haier Road,
Qingdao Shandong 266101
CN

50-A6-7F (hex) Apple, Inc.
50A67F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

20-16-B9 (hex) Intel Corporate
2016B9 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-16-5C (hex) Trackflow Ltd.
00165C (base 16) Trackflow Ltd.
167-169 Kensington High Street
London England W86SH
GB

14-20-5E (hex) Apple, Inc.
14205E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B8-41-A4 (hex) Apple, Inc.
B841A4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

9C-E6-5E (hex) Apple, Inc.
9CE65E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C4-98-80 (hex) Apple,
Inc.
C49880 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E0-33-8E (hex) Apple, Inc.
E0338E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D4-61-DA (hex) Apple, Inc.
D461DA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-18-98 (hex) Apple, Inc.
F01898 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

88-19-08 (hex) Apple, Inc.
881908 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

5C-09-47 (hex) Apple, Inc.
5C0947 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

64-1C-AE (hex) Samsung Electronics Co.,Ltd
641CAE (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

F8-E4-4E (hex) MCOT INC.
F8E44E (base 16) MCOT INC.
Yogohigashi 1-5-12
Matsuyama Ehime 790-0044
JP

40-CD-7A (hex) Qingdao Hisense
Communications Co.,Ltd.
40CD7A (base 16) Qingdao Hisense Communications Co.,Ltd.
Qianwangang Road 218
Qingdao Shandong 266510
CN

94-99-90 (hex) VTC Telecommunications
949990 (base 16) VTC Telecommunications
750 (3rd Floor) Dien Bien Phu, District 10
Ho Chi Minh Ho Chi Minh 70000
VN

F4-BC-97 (hex) Shenzhen Crave Communication Co., LTD
F4BC97 (base 16) Shenzhen Crave Communication Co., LTD
F3,8Building, DongFangMing IndustryZone, No.83 DabaoRD., 33 District BaoAn
Shenzhen 518000
CN

28-FE-DE (hex) COMESTA, Inc.
28FEDE (base 16) COMESTA, Inc.
Techno1-ro 61-7, Yuseong-gu,
Daejeon 34014
KR

14-4E-34 (hex) Remote Solution
144E34 (base 16) Remote Solution
92, Chogokri, Nammyun

Kimcheon city Kyungbuk 740-871
KR

90-79-10 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
907910 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan
Lepas Penang 11900
MY

00-3D-E8 (hex) LG Electronics (Mobile Communications)
003DE8 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

68-FE-DA (hex) Fiberhome Telecommunication Technologies Co.,LTD
68FEDA (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

DC-4E-F4 (hex) Shenzhen MTN Electronics CO., Ltd
DC4EF4 (base 16) Shenzhen MTN Electronics CO., Ltd
MTN Industrial Park, No. 5, 9 South Futai Road, Pingxi Community, Pingdi Street, Longgang District
Shenzhen Guangdong 518117
CN

F0-81-73 (hex) Amazon Technologies Inc.
F08173 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno 89507
US

00-50-8B (hex) Hewlett Packard
00508B (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

2C-D9-74 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
2CD974
(base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

D4-F7-86 (hex) Fiberhome Telecommunication Technologies Co.,LTD

D4F786 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

94-B8-6D (hex) Intel Corporate
94B86D (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

14-6B-9C (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
146B9C (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268 Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

94-8D-EF (hex) Oetiker Schweiz AG
948DEF (base 16) Oetiker Schweiz AG
Spätzstrasse 11
Horgen 8810
CH

24-0A-63 (hex) ARRIS Group, Inc.
240A63 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

F8-8B-37 (hex) ARRIS Group, Inc.
F88B37
(base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

20-67-7C (hex) Hewlett Packard Enterprise
20677C (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

88-17-A3 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
8817A3 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

88-A9-A7 (hex) IEEE Registration Authority
88A9A7 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

34-03-DE (hex) Texas Instruments
3403DE (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

34-D7-12 (hex) Smartisan Digital Co., Ltd
34D712 (base 16) Smartisan Digital Co., Ltd
4F, China Digital Kingdom, No.1 Wangjing North Road, Chaoyang District
Beijing Beijing 100012
CN

A0-66-10 (hex) FUJITSU LIMITED
A06610 (base 16) FUJITSU LIMITED
403,
Kosugi-cho 1-chome, Nakahara-ku
Kawasaki Kanagawa 211-0063
JP

E0-E6-2E (hex) TCT mobile ltd
E0E62E (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

44-FF-BA (hex) zte corporation
44FFBA (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

50-14-79 (hex) iRobot Corporation
501479 (base 16) iRobot Corporation
8 Crosby Drive
Bedford MA 01730
US

E4-2D-7B (hex) China Mobile IOT Company Limited
E42D7B (base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area
Chongqing Chongqing 401336
CN

38-78-62 (hex) Sony Corporation
387862 (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

EC-89-14 (hex) HUAWEI TECHNOLOGIES CO.,LTD
EC8914 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake
Technology Park
Dongguan 523808
CN

B8-94-36 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B89436 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

60-84-BD (hex) BUFFALO.INC
6084BD (base 16) BUFFALO.INC
AKAMONDORI Bld.,30-20,Ohsu 3-chome,Naka-ku
Nagoya Aichi Pref. 460-8315
JP

34-7E-CA (hex) NEXTWILL
347ECA (base 16) NEXTWILL
JJ-Building, 20, Deongmyeong-ro 71beon-gil1, Yuseong-gu
Daejeon 34155
KR

B4-2E-F8 (hex) Eline Technology co.Ltd
B42EF8 (base 16) Eline Technology co.Ltd
kangcheng Road, Pharmaceutical Industrical Park, Yuanzhou District
Yichun Jiangxi 336000
CN

A4-D4-B2 (hex) Shenzhen MeiG Smart Technology Co.,Ltd
A4D4B2 (base 16) Shenzhen MeiG Smart Technology Co.,Ltd
#88 Qinjiang Road, Xuhui District
Shanghai 200233
CN

8C-F7-73 (hex) Nokia
8CF773 (base 16) Nokia
600 March Road
Kanata

Ontario K2K 2E6
CA

DC-DD-24 (hex) Energica Motor Company SpA
DCDD24 (base 16) Energica Motor Company SpA
Via Cesare della Chiesa, 150
MODENA (MO) Mo 41126
IT

64-1C-B0 (hex) Samsung Electronics Co.,Ltd
641CB0 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

90-3A-72 (hex) Ruckus Wireless
903A72 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

28-02-D8 (hex) Samsung Electronics Co.,Ltd
2802D8 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

DC-E5-33 (hex) IEEE Registration Authority
DCE533 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

D8-44-5C (hex) DEV Tecnologia Ind Com Man Eq LTDA
D8445C (base 16) DEV Tecnologia Ind Com Man Eq LTDA
Av Prof Lineu Prestes 2242 SL 23
Sao Paulo SP 05508000
BR

7C-39-53 (hex) zte corporation
7C3953
(base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

38-E1-AA (hex) zte corporation
38E1AA (base 16) zte corporation

12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

48-C7-96 (hex) Samsung Electronics Co.,Ltd
48C796 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F4-C2-48 (hex) Samsung Electronics Co.,Ltd
F4C248 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F4-71-90 (hex) Samsung Electronics Co.,Ltd
F47190 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

8C-59-73 (hex) Zyxel Communications Corporation
8C5973 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

24-18-1D (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
24181D
(base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak SEMTHAI, WELLGROW INDUSTRIAL ESTATE
Bangpakong Chachoengsao 24180
TH

F8-90-66 (hex) Nain Inc.
F89066 (base 16) Nain Inc.
Aoyamadai building 902, Shibuya 2-9-10, Shibuya-ku
Tokyo 150-0002
JP

70-06-AC (hex) Eastcompeace Technology Co., Ltd
7006AC (base 16) Eastcompeace Technology Co., Ltd
Number 8 Pinggong Zhong Road,Nanping S&T Industry Community,Zhuhai,Guangdong,519060 China
Zhuhai Guangdong 519060
CN

50-95-51 (hex) ARRIS Group, Inc.

509551 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

80-41-26 (hex) HUAWEI TECHNOLOGIES CO.,LTD
804126 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

AC-F9-70 (hex) HUAWEI TECHNOLOGIES CO.,LTD
ACF970 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng
Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

58-D7-59 (hex) HUAWEI TECHNOLOGIES CO.,LTD
58D759 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

4C-EF-C0 (hex) Amazon Technologies Inc.
4CEFC0 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

C4-64-E3 (hex) Texas Instruments
C464E3 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

CC-3B-58 (hex) Curiouser Products Inc
CC3B58 (base 16) Curiouser Products Inc
712 Broadway #4
New York NY 10003
US

00-08-89 (hex) Dish Technologies Corp
000889 (base 16) Dish Technologies Corp
94 Inverness Terrace E
Englewood CO 80112
US

04-C9-D9 (hex) Dish Technologies Corp
04C9D9 (base 16) Dish Technologies Corp
94 Inverness Terrace E
Englewood CO 80112
US

70-55-F8 (hex) Cerebras Systems Inc
7055F8
(base 16) Cerebras Systems Inc
175 S San Antonio Rd #100
Los Altos CA 94022
US

C4-FF-BC (hex) IEEE Registration Authority
C4FFBC (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

28-3B-82 (hex) D-Link International
283B82 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

D4-90-9C (hex) Apple, Inc.
D4909C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E4-E0-A6 (hex) Apple, Inc.
E4E0A6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

5C-00-38 (hex) Viasat Group S.p.A.
5C0038 (base 16) Viasat Group S.p.A.
Via Aosta 23
Venaria Reale Torino 10078
IT

F0-B5-B7 (hex) Disruptive Technologies Research AS
F0B5B7 (base 16) Disruptive Technologies Research AS
Ytrebygdsvegen 215
Blomsterdalen Hordaland 5258
NO

B4-DE-DF (hex) zte corporation
B4DEDF
(base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

6C-54-CD (hex) LAMPEX ELECTRONICS LIMITED
6C54CD (base 16) LAMPEX ELECTRONICS LIMITED
6-2/231/B, Kukatpally,
Hyderabad Telangana 500072
IN

94-29-0C (hex) Shenyang wisdom Foundation Technology Development Co., Ltd.
94290C (base 16) Shenyang wisdom Foundation Technology Development Co., Ltd.
No. 262 North Main Street, Huanggu District, the Yellow River
shenyang 110000
CN

9C-32-CE (hex) CANON INC.
9C32CE (base 16) CANON INC.
30-2 Shimomaruko 3-chome,
Ohta-ku Tokyo 146-8501
JP

34-41-5D (hex) Intel Corporate
34415D (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-50-91 (hex) NETACCESS, INC.
005091 (base 16) NETACCESS, INC.
18 KEEWAYDIN DRIVE
SALEM NH 03079
US

20-E0-9C (hex) Nokia
20E09C (base 16) Nokia
600
March Road
Kanata Ontario K2K 2E6
CA

2C-FD-A1 (hex) ASUSTek COMPUTER INC.
2CFDA1 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan

Taipei Taiwan 112
TW

14-44-4A (hex) Apollo Seiko Ltd.
14444A (base 16) Apollo Seiko Ltd.
2271-7 Jinba
Gotenba Shizuoka 412-0047
JP

3C-2C-99 (hex) Edgecore Networks Corporation
3C2C99 (base 16) Edgecore Networks Corporation
1 Creation RD 3.
Hsinchu 30077
TW

38-07-D4 (hex) Zeppelin Systems GmbH
3807D4 (base 16) Zeppelin Systems GmbH
Messenhäuser Str. 37-45
Rödermark Hessen 63322
DE

04-19-7F (hex) Grasphere Japan
04197F (base 16) Grasphere Japan
3-1-11 NNT build.
Tokyo 1030013
JP

10-CE-A9 (hex) Texas Instruments
10CEA9 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

80-2B-F9 (hex) Hon Hai Precision Ind. Co.,Ltd.
802BF9 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building
D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

54-B8-02 (hex) Samsung Electronics Co.,Ltd
54B802 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

58-04-54 (hex) ICOMM HK LIMITED
580454 (base 16) ICOMM HK LIMITED

SUITES 2302-6, 23/F GREAT EAGLE CTR 23 HARBOUR RD
WANCHAI NA
HK

C4-77-AF (hex) Advanced Digital Broadcast SA
C477AF (base 16) Advanced Digital Broadcast SA
Route de Crassier 21, B2
Eysins CH-1262
CH

80-5E-0C (hex) YEALINK(XIAMEN) NETWORK TECHNOLOGY CO.,LTD.
805E0C (base 16) YEALINK(XIAMEN) NETWORK TECHNOLOGY CO.,LTD.
309, 3th Floor, No.16, Yun Ding North Road, Huli District
xiamen Fujian 361015
CN

6C-49-C1 (hex) o2ones Co., Ltd.
6C49C1 (base 16) o2ones Co., Ltd.
503 Glory Tower, 3-10, Gumi-ro 9beon-gil, Bundang-gu
Seongnam-si Gyeonggi-do 13637
KR

70-EE-A3 (hex) Eoptolink Technology Inc.
Ltd,
70EEA3 (base 16) Eoptolink Technology Inc. Ltd,
No.127 West Wulian Street
Chengdu China/Sichuan 610213
CN

70-47-E9 (hex) vivo Mobile Communication Co., Ltd.
7047E9 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

5C-52-1E (hex) Nintendo Co.,Ltd
5C521E (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

6C-DD-30 (hex) Cisco Systems, Inc
6CDD30 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

6C-4E-86 (hex) Third Millennium Systems Ltd.

6C4E86 (base 16) Third Millennium Systems Ltd.
18/19 Torfaen Business Centre, Panteg Way
New Inn, Pontypool Torfaen NP4 0LS
GB

5C-86-C1 (hex) DONGGUAN SOLUM ELECTRONICS CO.,LTD
5C86C1 (base 16) DONGGUAN SOLUM ELECTRONICS CO.,LTD
NO.157,13 Coastal Way TPFTZ
TIANJIN 300461
CN

88-D0-39 (hex) Tonly
Technology Co. Ltd
88D039 (base 16) Tonly Technology Co. Ltd
Section 37, Zhongkai Hi-Tech Development Zone
Huizhou Guangdong 516006
CN

5C-81-A7 (hex) Network Devices Pty Ltd
5C81A7 (base 16) Network Devices Pty Ltd
16 Dickson Ave
Artarmon NSW 2064
AU

5C-0C-0E (hex) Guizhou Huaxintong Semiconductor Technology Co Ltd
5C0C0E (base 16) Guizhou Huaxintong Semiconductor Technology Co Ltd
Sitelin Park
Intersection between Jin ma Ave and Qianzhong Ave Gui An New Area, Guizhou Prov 550003
CN

68-3E-02 (hex) SIEMENS AG, Digital Factory, Motion Control System
683E02 (base 16) SIEMENS AG, Digital Factory, Motion Control System
Varey Road
Congleton Cheshire CW12 1PH
GB

50-3C-EA (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
503CEA (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

EC-81-93 (hex) Logitech, Inc
EC8193
(base 16) Logitech, Inc
4700 NW Camas Meadows Drive
Camas WA 98607
US

00-02-61 (hex) Tilgin AB
000261 (base 16) Tilgin AB
Finlandsgatan 40
kista 12345
SE

00-14-C3 (hex) Seagate Technology
0014C3 (base 16) Seagate Technology
M/S NW1F01
Longmont CO 80503
US

00-04-CF (hex) Seagate Technology
0004CF (base 16) Seagate Technology
M/S NW1F01
Longmont CO 80503
US

00-20-37 (hex) Seagate Technology
002037 (base 16) Seagate Technology
8001 E. BLOOMINGTON FWY
BLOOMINGTON MN 55420
US

00-E0-91 (hex) LG Electronics
00E091 (base 16) LG Electronics
16, Woomyeon-dong, Seocho-gu
Seoul 137-724
KR

38-43-7D (hex) Compal Broadband Networks, Inc.
38437D (base 16) Compal Broadband Networks, Inc.
13F., No.1, Taiyuan 1st St.
Zhubei City Hsinchu County 30265
TW

50-6F-98 (hex) Sehaj Synergy Technologies Private Limited
506F98 (base 16) Sehaj Synergy
Technologies Private Limited
E-112A, Kataria Colony, Ramanagar Extension, New Sanganer Road, Sodala, Jaipur-302019
Jaipur Rajasthan 302019
IN

4C-AE-1C (hex) SaiNXT Technologies LLP
4CAE1C (base 16) SaiNXT Technologies LLP
Shop No. 7, Sonawala Building, 1st Floor, Proctor Road, Grant Road (E)
Mumbai Maharashtra 400007

IN

44-91-60 (hex) Murata Manufacturing Co., Ltd.
449160 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

B4-F1-DA (hex) LG Electronics (Mobile Communications)
B4F1DA (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

C8-63-F1 (hex) Sony Interactive Entertainment Inc.
C863F1 (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

5C-77-76 (hex) TCT mobile ltd
5C7776 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech
District
Hui Zhou Guang Dong 516006
CN

70-E5-6E (hex) Texas Instruments
70E56E (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

54-7D-CD (hex) Texas Instruments
547DCD (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

00-AE-CD (hex) Pensando Systems
00AECD (base 16) Pensando Systems
1730 Technology Drive, Suite 202
San Jose CA 95110
US

14-28-82 (hex) MIDICOM ELECTRONICS CO.LTD
142882 (base 16) MIDICOM ELECTRONICS CO.LTD
Bucheon Techno Park 303-404,345

Seokcheon-ro,Bucheon-si Gyeonggi-do 1501
KR

30-E4-8E (hex) Vodafone UK
30E48E (base 16) Vodafone UK
Vodafone House
Newbury Berkshire RG142FN
GB

84-50-9A (hex) Easy Soft TV Co., Ltd
84509A (base 16) Easy Soft TV Co., Ltd
#1613, Heungduk U-Tower, Heungduk Jung ang-ro 120
Yongin-si Gyeounggi-do 16950
KR

FC-9D-D8 (hex) Beijing TongTongYiLian Science and Technology Ltd.
FC9DD8
(base 16) Beijing TongTongYiLian Science and Technology Ltd.
Room 301,Zone 3,Building 9,No.8 Dongbeiwang West Road,Haidian District,Beijing
BEIJING BEIJING 100193
CN

DC-28-34 (hex) HAKKO Corporation
DC2834 (base 16) HAKKO Corporation
4-5, Shiokusa 2-chome, Naniwaku
Osaka Osaka 556-0024
JP

00-17-30 (hex) Automation Electronics
001730 (base 16) Automation Electronics
111 Big Horn Rd.
Casper Wy 82601
US

00-19-C2 (hex) Equustek Solutions, Inc.
0019C2 (base 16) Equustek Solutions, Inc.
#286 - 5489 Byrne Road,
Burnaby BC V5J 3J1
CA

80-00-0B (hex) Intel Corporate
80000B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

DC-E1-AD (hex) Shenzhen Wintop Photoelectric Technology Co., Ltd
DCE1AD (base 16) Shenzhen Wintop Photoelectric Technology Co., Ltd

6th Floor, 1st Building, Zone 3, South Area, Zhongguan& Honghualing Industrial Zone, No. 1213, Liuxian Avenue, Taoyuan Street, Nanshan District, Shenzhen, China
Shenzhen Guangdong 518054
CN

78-DD-D9 (hex) Guangzhou Shiyuan Electronics Co., Ltd.
78DDD9 (base 16) Guangzhou Shiyuan Electronics Co., Ltd.
No.6, 4th Yunpu Road, Yunpu Industry District
Guangzhou Guangdong 510530
CN

B0-FC-36 (hex) CyberTAN Technology Inc.
B0FC36 (base 16) CyberTAN Technology Inc.
99 Park Ave III, Hsinchu Science Park
Hsinchu 308
TW

00-1D-F4 (hex) Magellan Technology Pty Limited
001DF4 (base 16) Magellan Technology Pty Limited
65 Johnston Street
Annandale NSW 2000
AU

F8-B7-E2 (hex) Cisco Systems, Inc
F8B7E2 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F8-20-55 (hex) Green Information System
F82055 (base 16) Green Information System
#202(Shopping center), Woldong-ro 28, Buk-gu
Gwangju 61153
KR

74-E1-9A (hex) Fiberhome Telecommunication Technologies Co.,LTD
74E19A (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

00-1C-AE (hex) WiChorus, Inc.
001CAE (base 16) WiChorus, Inc.
3590 N 1st Street, Suite 300
San Jose CA 95134
US

EC-B0-E1 (hex) Ciena Corporation
ECB0E1 (base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

94-88-54 (hex) Texas Instruments
948854 (base 16) Texas Instruments
12500 TI Boulevard
Dallas TX 75243
US

00-1D-0D (hex) Sony Interactive Entertainment Inc.
001D0D (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

6C-05-D5 (hex) Ethertronics Inc
6C05D5 (base 16) Ethertronics Inc
5501 Oberlin Drive, Suite 100
SAN DIEGO CA 92121
US

00-00-97 (hex) Dell EMC
000097 (base 16) Dell EMC
176 South Street
Hopkinton MA 01748
US

8C-CF-09 (hex) Dell EMC
8CCF09 (base 16) Dell
EMC
228 South St
Hopkinton MA 01748
US

8C-83-9D (hex) SHENZHEN XINYUPENG ELECTRONIC TECHNOLOGY CO., LTD
8C839D (base 16) SHENZHEN XINYUPENG ELECTRONIC TECHNOLOGY CO., LTD
ROOM 1505,BIT INNOVATION BUILDING,SCIENCE AND TECHNOLOGY PARK,NANSHAN DISTRICT
Shenzhen 518057
CN

00-81-F9 (hex) Texas Instruments
0081F9 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

EC-B5-FA (hex) Philips Lighting BV
ECB5FA (base 16) Philips Lighting BV
High Tech Campus 45
Eindhoven Noord Brabant 5656 AE
NL

B0-C1-9E (hex) zte corporation
B0C19E (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

0C-37-47 (hex) zte corporation
0C3747 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

AC-A6-67 (hex) Electronic Systems Protection, Inc.
ACA667 (base
16) Electronic Systems Protection, Inc.
8001 Knightdale Blvd.
Knightdale NC 27545
US

44-CD-0E (hex) FLEXTRONICS MANUFACTURING(ZHUHAI)CO.,LTD.
44CD0E (base 16) FLEXTRONICS MANUFACTURING(ZHUHAI)CO.,LTD.
Xin Qing Science & Technology Industrial Park,Jin An Town,Doumen ,Zhuhai,Guangdong,PRC
Zhuhai Guangdong 519180
CN

E8-82-5B (hex) ARRIS Group, Inc.
E8825B (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1C-56 (hex) Pado Systems, Inc.
001C56 (base 16) Pado Systems, Inc.
#706 Loadland EZ Tower 153
SungNam Gyung gi-Do 463-810
KR

F0-6D-78 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
F06D78 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860

CN

70-99-1C (hex) Shenzhen Honesty Electronics Co.,Ltd
70991C (base 16) Shenzhen Honesty Electronics Co.,Ltd
5/F,Zone B,Chitat Industrial Park,West
Longping Road
Shenzhen City Longgang District, Guangdong 518172
CN

80-B0-3D (hex) Apple, Inc.
80B03D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E4-9A-DC (hex) Apple, Inc.
E49ADC (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-E4-B5 (hex) Apple, Inc.
ACE4B5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D0-D2-B0 (hex) Apple, Inc.
D0D2B0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

70-7D-95 (hex) Shenzhen City LinwlanTechnology Co. Ltd.
707D95 (base 16) Shenzhen City LinwlanTechnology Co. Ltd.
106 village road , manhole street Baoan district .
Shenzhen Guangdong 518125
CN

18-CC-88 (hex) Hitachi Johnson Controls Air
18CC88 (base 16) Hitachi Johnson Controls Air
390 Number
Shimizu Village Village Shizuoka Prefecture 424-0926
JP

7C-DD-76 (hex) Suzhou Hanming Technologies Co.,
Ltd.
7CDD76 (base 16) Suzhou Hanming Technologies Co., Ltd.

Suite 407, No. 166, Ren Ai Road
Suzhou Jiangsu 215123
CN

24-68-80 (hex) Braveridge.co.,ltd.
246880 (base 16) Braveridge.co.,ltd.
3-27-2, Susenji
Nishi-ku, Fukuoka-shi Fukuoka 819-0373
JP

2C-43-1A (hex) Shenzhen YOUHUA Technology Co., Ltd
2C431A (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

70-70-8B (hex) Cisco Systems, Inc
70708B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

38-9F-5A (hex) C-Kur TV Inc.
389F5A (base 16) C-Kur TV Inc.
A-1902, 583, Yangcheon-ro, Gangseo-gu
Seoul 07547
KR

F0-BD-2E (hex) H+S Polatis Ltd
F0BD2E (base 16) H+S Polatis Ltd
332/2 Cambridge Science Park
Cambridge CB4 0WN
GB

74-6E-E4 (hex) Asia Vital Components Co.,Ltd.
746EE4
(base 16) Asia Vital Components Co.,Ltd.
Rm. 3, 7F., No.24, Wuquan 2nd Rd., Xinzhuang Dist.,
New Taipei Taiwan 24892
TW

28-AD-3E (hex) Shenzhen TONG BO WEI Technology CO.,LTD
28AD3E (base 16) Shenzhen TONG BO WEI Technology CO.,LTD
Longhua District, Dalang street Langkou community Huarong Road Peng Tengda Industrial Park 4 5 floor
SHENZHEN guangdong 518109
CN

D8-43-ED (hex) Suzuken

D843ED (base 16) Suzuken
8, Higashikatahamachi, Higashiku
Nagoya Aich 4610015
JP

00-40-E4 (hex) E-M TECHNOLOGY, INC.
0040E4 (base 16) E-M TECHNOLOGY, INC.
9245 SOUTHWEST NIMBUS AVE.
BEAVERTON OR 97005
US

98-4B-4A (hex) ARRIS Group, Inc.
984B4A (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

E0-84-F3 (hex) High Grade Controls Corporation
E084F3 (base 16) High Grade Controls Corporation
87 Magill Street
Sudbury Ontario P3Y1K6
CA

E8-DF-70 (hex) AVM
Audiovisuelles Marketing und Computersysteme GmbH
E8DF70 (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

D0-59-95 (hex) Fiberhome Telecommunication Technologies Co.,LTD
D05995 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

A8-D3-C8 (hex) Topcon Electronics GmbH & Co. KG
A8D3C8 (base 16) Topcon Electronics GmbH & Co. KG
Industriestraße 7
Geisenheim 65366
DE

04-3A-0D (hex) SM Optics S.r.l.
043A0D (base 16) SM Optics S.r.l.
via Michelangelo Buonarroti, 1
Cologno Monzese Milan I-20093
IT

B8-D9-4D (hex) Sagemcom Broadband SAS
B8D94D (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

44-8F-17 (hex) Samsung Electronics Co., Ltd. ARTIK
448F17 (base 16) Samsung Electronics Co., Ltd. ARTIK
1-1, Samsungjeonja-ro
Hwaseong-si
Gyeonggi-do 18448
KR

00-FC-8B (hex) Amazon Technologies Inc.
00FC8B (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

00-76-B1 (hex) Somfy-Protect By Myfox SAS
0076B1 (base 16) Somfy-Protect By Myfox SAS
Regent Park II, Bât I, 2460 l'Occitane
Labège 31670
FR

80-C7-55 (hex) Panasonic Appliances Company
80C755 (base 16) Panasonic Appliances Company
2-3-1-2 Noji-higashi
Kusatsu City Shiga 525-8555
JP

4C-13-65 (hex) Emplus Technologies
4C1365 (base 16) Emplus Technologies
Bld B, 10F, No.209, Sec.1, Nangang Rd
Taipei 115
TW

38-A6-CE (hex) SKY UK LIMITED
38A6CE (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

BC-41-01 (hex) Shenzhen TINNO Mobile Technology Corp.
BC4101 (base 16) Shenzhen TINNO Mobile Technology Corp.
Building, No.33, Xiandong Rd, Xili
Nanshan District, Shenzhen PRC 518053
CN

18-78-D4 (hex) Verizon

1878D4 (base 16) Verizon
One Verizon Way
Basking Ridge NJ 07920
US

0C-62-A6 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
0C62A6 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

18-13-2D (hex) zte corporation
18132D (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

74-D2-1D (hex) HUAWEI TECHNOLOGIES CO.,LTD
74D21D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

CC-F9-57 (hex) u-blox AG
CCF957 (base 16) u-blox AG
Zuercherstrasse 68
Thalwil 8800
CH

38-90-A5 (hex) Cisco Systems, Inc
3890A5 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

1C-70-22 (hex) Murata Manufacturing Co., Ltd.
1C7022 (base 16) Murata
Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

CC-98-91 (hex) Cisco Systems, Inc
CC9891 (base 16) Cisco Systems, Inc
80 West Tasman Drive

San Jose CA 94568
US

28-BF-89 (hex) Fiberhome Telecommunication Technologies Co.,LTD
28BF89 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

90-3D-BD (hex) SECURE METERS LIMITED
903DBD (base 16) SECURE METERS LIMITED
E CLASS, PRATAP NAGAR INDUSTRIAL AREA
UDAIPUR RAJASTHAN 313003
IN

C0-74-2B (hex) SHENZHEN XUNLONG SOFTWARE CO.,LIMITED
C0742B (base 16) SHENZHEN XUNLONG SOFTWARE CO.,LIMITED
Room 532, Block A, Huameiju Business Center, Xinhu Road, Baoan 82 Area
Shenzhen Guangdong 518133
CN

5C-67-76 (hex) IDS Imaging Development Systems GmbH
5C6776 (base 16) IDS Imaging Development Systems GmbH
Dimbacher Str. 6
Obersulm BW 74182
DE

A0-72-E4
(hex) NJ SYSTEM CO.,LTD
A072E4 (base 16) NJ SYSTEM CO.,LTD
Urim lions valley 5cha, A-1701, 144-3, Sangdaewon-dong, Jungwon-gu
Seongnam Gyeonggido 13201
KR

44-EA-D8 (hex) Texas Instruments
44EAD8 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

18-9B-A5 (hex) IEEE Registration Authority
189BA5 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

A4-91-B1 (hex) Technicolor Delivery Technologies Belgium NV
A491B1 (base 16) Technicolor Delivery Technologies Belgium NV

Prins Boudewijnlaan 47
Edegem - Belgium B-2650
BE

6C-C1-47 (hex) Xiamen Hanin Electronic Technology Co., Ltd
6CC147 (base 16) Xiamen Hanin Electronic Technology Co., Ltd
#8 building, Gaoqi Nan Shi'er Road, Huli Distric
Xiamen Fujian 361000
CN

00-22-94 (hex) KYOCERA CORPORATION
002294 (base 16) KYOCERA CORPORATION
2-1-1,Kagahara
Yokohama-shi Kanagawa 224-8502
JP

38-89-DC
(hex) Opticon Sensors Europe B.V.
3889DC (base 16) Opticon Sensors Europe B.V.
Opaallaan 35
Hoofddorp Noord Holland 2132 XV
NL

74-E5-F9 (hex) Intel Corporate
74E5F9 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

1C-DD-EA (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
1CDDEA (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

94-00-06 (hex) jinyoung
940006 (base 16) jinyoung
1000 Dongil-ro Nowon-gu Seoul
Seoul 01849
KR

40-CE-24 (hex) Cisco Systems, Inc
40CE24 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

34-32-E6 (hex) Panasonic Industrial Devices Europe GmbH

3432E6 (base 16) Panasonic Industrial Devices Europe GmbH
Zeppelinstraße 19
Lüneburg 21337
DE

40-01-7A (hex) Cisco Systems, Inc
40017A (base 16) Cisco Systems,
Inc
80 West Tasman Drive
San Jose CA 94568
US

8C-85-90 (hex) Apple, Inc.
8C8590 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

BC-88-C3 (hex) Ningbo Dooya Mechanic & Electronic Technology Co., Ltd
BC88C3 (base 16) Ningbo Dooya Mechanic & Electronic Technology Co., Ltd
No.168 Shengguang road Luotuo street Zhenhai district
Ningbo Zhejiang 315202
CN

38-CD-07 (hex) Beijing FaceCam Technology Co., Ltd.
38CD07 (base 16) Beijing FaceCam Technology Co., Ltd.
Room C115, DongSheng Building, No 8, East Road, Zhongguan Town, Haidian District
Beijing 100083
CN

A4-34-12 (hex) Thales Alenia Space
A43412 (base 16) Thales Alenia Space
26 av JF Champollion
Toulouse 31037
FR

FC-01-7C (hex) Hon Hai Precision Ind. Co.,Ltd.
FC017C (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

90-32-4B (hex) Hon
Hai Precision Ind. Co.,Ltd.
90324B (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

68-1F-40 (hex) Blu Wireless Technology Ltd
681F40 (base 16) Blu Wireless Technology Ltd
Bluwireless Technology, 5th Floor, 1 Temple Way
Bristol Bristol, City of BS2 0BY
GB

6C-96-CF (hex) Apple, Inc.
6C96CF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

78-88-6D (hex) Apple, Inc.
78886D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

20-EE-28 (hex) Apple, Inc.
20EE28 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B4-F6-1C (hex) Apple, Inc.
B4F61C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

08-F4-AB (hex) Apple, Inc.
08F4AB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

8C-45-00 (hex) Murata Manufacturing Co., Ltd.
8C4500
(base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

90-AD-F7 (hex) vivo Mobile Communication Co., Ltd.
90ADF7 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860

CN

EC-FA-03 (hex) FCA
ECFA03 (base 16) FCA
800 Chrylser Dr
Auburn Hills MI 48326
US

00-D0-60 (hex) Panasonic Europe Ltd.
00D060 (base 16) Panasonic Europe Ltd.
LABORATORIES GMBH

DE

0C-4B-54 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
0C4B54 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

60-F6-77 (hex) Intel Corporate
60F677 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

E8-E1-E2 (hex) Energotest
E8E1E2 (base 16) Energotest
Chorzowska 44B
Gliwice
Slask 44-100
PL

E4-72-E2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E472E2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

50-8F-4C (hex) Xiaomi Communications Co Ltd
508F4C (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

A4-77-58 (hex) Ningbo Freewings Technologies Co.,Ltd
A47758 (base 16) Ningbo Freewings Technologies Co.,Ltd
No.502 Wenshui Road, Shounan Street, Yinzhou District

Ningbo Zhejiang 315192
CN

00-12-7D (hex) MobileAria
00127D (base 16) MobileAria
800 W El Camino Real #240
Mountain View CA 94040
US

60-2E-20 (hex) HUAWEI TECHNOLOGIES CO.,LTD
602E20 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

58-A0-CB (hex) TrackNet, Inc
58A0CB
(base 16) TrackNet, Inc
900 Lafayette Street #329
Santa Clara CA 95050
US

A0-88-69 (hex) Intel Corporate
A08869 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-8B-FC (hex) mixi,Inc.
008BFC (base 16) mixi,Inc.
Sumitomo Shibuya First Tower 7F, 1-2-20 Higashi
Shibuya-ku Tokyo 150-0011
JP

18-B8-1F (hex) ARRIS Group, Inc.
18B81F (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

94-E3-6D (hex) Texas Instruments
94E36D (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

E0-60-89 (hex) Cloudleaf, Inc.
E06089 (base 16) Cloudleaf, Inc.

860 Hillview Court, Suite 350
Milpitas CA 95035
US

78-36-90 (hex) Yulong Computer Telecommunication Scientific (Shenzhen) Co.,Ltd
783690 (base 16) Yulong Computer Telecommunication Scientific (Shenzhen) Co.,Ltd
Road NO2, West of Industrial Park,North of Science
& Technology Park
Dongguan Guangdong 518057
CN

F0-F8-F2 (hex) Texas Instruments
F0F8F2 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

34-15-13 (hex) Texas Instruments
341513 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

74-81-9A (hex) PT. Hartono Istana Teknologi
74819A (base 16) PT. Hartono Istana Teknologi
KHR Asnawi
Kudus Jawa Tengah 59332
ID

C4-44-A0 (hex) Cisco Systems, Inc
C444A0 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

18-74-2E (hex) Amazon Technologies Inc.
18742E (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno 89507
US

F8-44-E3 (hex) Taicang T&W Electronics
F844E3 (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

28-35-45 (hex) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD

283545 (base 16) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
Unit
East Block22-24/F,Skyworth semiconductor design Bldg., Gaoxin Ave.4.S.,Nanshan District,Shenzhen,China
SHENZHEN GUANGDONG 518057
CN

04-4F-4C (hex) HUAWEI TECHNOLOGIES CO.,LTD
044F4C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

1C-15-1F (hex) HUAWEI TECHNOLOGIES CO.,LTD
1C151F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D8-37-BE (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
D837BE (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT
#1905 Mei Hong Road
Shanghai Shanghai 200000
CN

90-A3-65 (hex) HMD Global Oy
90A365 (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

DC-44-B6 (hex) Samsung Electronics Co.,Ltd
DC44B6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

10-07-B6 (hex) Samsung
Electronics Co.,Ltd
1007B6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

24-A5-34 (hex) SynTrust Tech International Ltd.
24A534 (base 16) SynTrust Tech International Ltd.
10F-1, No. 125, Songde Road,
Taipei Taiwan 110
TW

A8-2B-B5 (hex) Edgecore Networks Corporation
A82BB5 (base 16) Edgecore Networks Corporation
1 Creation RD 3.
Hsinchu 30077
TW

A0-42-3F (hex) Tyan Computer Corp
A0423F (base 16) Tyan Computer Corp
3288 Larurelview Court
Fremont CA 94538
US

70-F1-1C (hex) Shenzhen Ogemray Technology Co.,Ltd
70F11C (base 16) Shenzhen Ogemray Technology Co.,Ltd
4/F,5Bldg,Dongwu Industrial Park, Donghuan 1st Rd, Longhua District.
Shenzhen 518059
CN

70-65-A3 (hex) Kandao lightforge Co., Ltd.
7065A3 (base 16) Kandao lightforge Co., Ltd.
5th Floor, M7 Steel Building, the second way in Technology Road , Nanshan District,
Shenzhen
Guangdong 518057
CN

74-D0-DC (hex) Ericsson AB
74D0DC (base 16) Ericsson AB
Torshamnsgatan 48
STOCKHOLM 164 83
SE

54-BD-79 (hex) Samsung Electronics Co.,Ltd
54BD79 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

34-2D-0D (hex) Samsung Electronics Co.,Ltd
342D0D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

78-11-DC (hex) XIAOMI Electronics,CO.,LTD
7811DC (base 16) XIAOMI Electronics,CO.,LTD
Xiaomi Building, No.68 Qinghe Middle Street
Haidian District Beijing 100085

CN

D4-63-C6 (hex) Motorola Mobility LLC, a Lenovo Company
D463C6 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

C0-8A-DE (hex) Ruckus Wireless
C08ADE (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

00-1D-2E (hex) Ruckus
Wireless
001D2E (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

8C-0C-90 (hex) Ruckus Wireless
8C0C90 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

6C-AA-B3 (hex) Ruckus Wireless
6CAAB3 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

00-13-92 (hex) Ruckus Wireless
001392 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

D4-68-4D (hex) Ruckus Wireless
D4684D (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

A0-C5-F2 (hex) IEEE Registration Authority
A0C5F2 (base 16) IEEE Registration Authority
445 Hoes Lane

Piscataway NJ 08554
US

A8-6B-7C (hex) SHENZHEN FENGLIAN TECHNOLOGY CO., LTD.
A86B7C (base 16) SHENZHEN FENGLIAN TECHNOLOGY CO., LTD.
ORIENTAL CYBERPORT, HIGHTECH 6 ROAD
SHENZHEN GUANGDONG 518057
CN

B0-39-56 (hex) NETGEAR
B03956
(base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

EC-42-B4 (hex) ADC Corporation
EC42B4 (base 16) ADC Corporation
77-1, Miyako
Namegawa-machi, Hiki-gun Saitama Pref. 355-0812
JP

60-DA-83 (hex) Hangzhou H3C Technologies Co., Limited
60DA83 (base 16) Hangzhou H3C Technologies Co., Limited
466 Changhe Road, Binjiang District
Hangzhou Zhejiang, P.R.China 310052
CN

2C-57-31 (hex) Wingtech Group (HongKongLimited
2C5731 (base 16) Wingtech Group (HongKongLimited
FLAT/RM 1903 19/F PODIUM PLAZA 5HANOI ROAD TSIM SHA TSUI
Hong Kong Hong Kong 999077
HK

48-59-A4 (hex) zte corporation
4859A4 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

08-51-14 (hex) QINGDAO TOPSCOMM COMMUNICATION CO., LTD
085114 (base 16) QINGDAO TOPSCOMM COMMUNICATION CO., LTD
7/F, Building 6, NO.288, Ningxia Road
Qingdao
Shandong 266024
CN

70-78-8B (hex) vivo Mobile Communication Co., Ltd.

70788B (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

AC-9E-17 (hex) ASUSTek COMPUTER INC.
AC9E17 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

64-16-66 (hex) Nest Labs Inc.
641666 (base 16) Nest Labs Inc.
3400 Hillview Ave.
Palo Alto CA 94304
US

CC-46-39 (hex) WAAV, Inc.
CC4639 (base 16) WAAV, Inc.
151 PEARL ST FL 4
BOSTON MA 02110
US

D8-DF-7A (hex) Quest Software, Inc.
D8DF7A (base 16) Quest Software, Inc.
4 Polaris Way
Aliso Viejo CA 92656
US

A0-23-9F (hex) Cisco Systems, Inc
A0239F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

70-F3-5A (hex) Cisco Systems, Inc
70F35A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San
Jose CA 94568
US

B4-E6-2A (hex) LG Innotek
B4E62A (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

E4-A7-49 (hex) Palo Alto Networks
E4A749 (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

A0-AF-BD (hex) Intel Corporate
A0AFBD (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

7C-8B-CA (hex) TP-LINK TECHNOLOGIES CO.,LTD.
7C8BCA (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

B0-4E-26 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
B04E26 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

B0-89-C2 (hex) Zyptonite
B089C2 (base 16) Zyptonite
1460 Broadway,
12 fl.
New York NY 10036
US

F0-23-B9 (hex) IEEE Registration Authority
F023B9 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

30-07-4D (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
30074D (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak SEMTHAI, WELLGROW INDUSTRIAL ESTATE
Bangpakong Chachoengsao 24180
TH

A0-34-1B (hex) Adero Inc
A0341B (base 16) Adero Inc
7410 HOllister Ave
Goleta CA 93117
US

8C-14-7D (hex) IEEE Registration Authority
8C147D (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

FC-4D-D4 (hex) Universal Global Scientific Industrial Co., Ltd.
FC4DD4 (base 16) Universal Global Scientific Industrial Co., Ltd.
141, Lane 351, Taiping Rd. Sec. 1, Tsao Tuen,
Nan-Tou Hsien, 542
TW

14-5B-E1 (hex) nyantec GmbH
145BE1 (base 16) nyantec GmbH
Europaplatz 2
Berlin 10557
DE

A4-F4-C2
(hex) VNPT TECHNOLOGY
A4F4C2 (base 16) VNPT TECHNOLOGY
HoaLac Hi-Tech Park
HANOI HANOI 10000
VN

48-10-63 (hex) NTT Innovation Institute, Inc.
481063 (base 16) NTT Innovation Institute, Inc.
1950 University Avenue, Suite 600
East Palo Alto CA 94303
US

A0-8E-78 (hex) Sagemcom Broadband SAS
A08E78 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

94-7B-E7 (hex) Samsung Electronics Co.,Ltd
947BE7 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

50-92-B9 (hex) Samsung Electronics Co.,Ltd
5092B9 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350

KR

DC-74-A8 (hex) Samsung Electronics Co.,Ltd
DC74A8 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

88-D5-0C (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
88D50C (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

D4-28-D5 (hex) TCT mobile ltd
D428D5 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

1C-1F-D4 (hex) LifeBEAM Technologies LTD
1C1FD4 (base 16) LifeBEAM Technologies LTD
150 Greenwich st 4WTC - 29th floor
New York NY 10007
US

00-9A-D2 (hex) Cisco Systems, Inc
009AD2 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E8-39-35 (hex) Hewlett Packard
E83935 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

00-18-0A (hex) Cisco Meraki
00180A (base 16) Cisco Meraki
99 Rhode Island St.
San Francisco, CA 94103
US

18-A9-58 (hex) PROVISION THAI CO., LTD.
18A958 (base 16) PROVISION THAI CO., LTD.
155/7-10 Rachadapisek Rd.,

Thonburi
Bangkok 10600
TH

9C-E9-51 (hex) Shenzhen Sang Fei Consumer Communications Ltd., Co.
9CE951 (base 16) Shenzhen Sang Fei Consumer Communications Ltd., Co.
11,Science And Technology Road, Shenzhen Hi-tech Industrial Park, Nanshan District
Shenzhen City Guangdong 518057
CN

74-C9-A3 (hex) Fiberhome Telecommunication Technologies Co.,LTD
74C9A3 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

EC-8A-4C (hex) zte corporation
EC8A4C (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

D4-5F-25 (hex) Shenzhen YOUHUA Technology Co., Ltd
D45F25 (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

40-C8-CB (hex) AM Telecom co., Ltd.
40C8CB (base 16) AM Telecom co.,
Ltd.
#608,YatapLeaders B/D, Jangmi-ro 42, Bundang-gu
Seongnam-si Gyeonggi-do 463-828
KR

90-70-65 (hex) Texas Instruments
907065 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

5C-6A-80 (hex) Zyxel Communications Corporation
5C6A80 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

D8-60-B3 (hex) Guangdong Global Electronic Technology CO.LTD

D860B3 (base 16) Guangdong Global Electronic Technology CO.LTD
Floor4 East side,build#6,Huangzhou industry Park, chebei Road, Tianhe District
GuangZhou GuangDong 510660
CN

64-35-1C (hex) e-CON SYSTEMS INDIA PVT LTD
64351C (base 16) e-CON SYSTEMS INDIA PVT LTD
RR Tower 4, 7th Floor, TVK IND Estate, Guindy
Chennai Other 600032
IN

A8-D5-79 (hex) Beijing Chushang Science and Technology Co.,Ltd
A8D579 (base 16) Beijing Chushang Science and Technology Co.,Ltd
3A285 room,3
layer,1 building,No 11 of yongwai song zhuang road,Fengtai district,Beijing
Beijing Beijing 518000
CN

44-48-C1 (hex) Hewlett Packard Enterprise
4448C1 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

60-53-17 (hex) Sandstone Technologies
605317 (base 16) Sandstone Technologies
1920 lyell ave
Rochester NY 14606
US

60-BA-18 (hex) nextLAP GmbH
60BA18 (base 16) nextLAP GmbH
Hofmannstr. 61
München 81379
DE

84-CD-62 (hex) ShenZhen IDWELL Technology CO.,Ltd
84CD62 (base 16) ShenZhen IDWELL Technology CO.,Ltd
4F,Building 20 Changxing Industrial Park,Shayi,Shajing,BaoAn
ShenZhen 518000
CN

B8-D5-0B (hex) Sunitec Enterprise Co.,Ltd
B8D50B (base 16) Sunitec Enterprise Co.,Ltd
3F.,No.98-1,Mincyuan Rd.Sindian City
Taipei County 231 231141
CN

BC-66-DE (hex) Shadow Creator Information Technology Co.,Ltd.
BC66DE (base 16) Shadow Creator
Information Technology Co.,Ltd.
Shanghai City, Pudong New Area Zhangjiang road 368, Building 29, room 611
Shanghai Shanghai 200120
CN

9C-AF-6F (hex) ITEL MOBILE LIMITED
9CAF6F (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

FC-53-9E (hex) Shanghai Wind Technologies Co.,Ltd
FC539E (base 16) Shanghai Wind Technologies Co.,Ltd
Floor 8,East Building,Guilin Technology Mansion,No.650,Caobao Road,XuHui District,Shanghai,P.R.China
Shanghai Shanghai 200233
CN

C8-3A-6B (hex) Roku, Inc
C83A6B (base 16) Roku, Inc
1155 Coleman Ave
San Jose CA 95110
US

B4-C6-F8 (hex) Axilspot Communication
B4C6F8 (base 16) Axilspot Communication
A302 Han's Innovation Building, No.9018 Beihuan Ave., Nanshan District
Shenzhen 518000
CN

00-1F-A4 (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
001FA4 (base 16) SHENZHEN
GONGJIN ELECTRONICS CO.,LT
4F,Baiying Building, No.1019,Nanhai RD,Shekou,
ShenZhen GuangDong 518067
CN

C4-AE-12 (hex) Samsung Electronics Co.,Ltd
C4AE12 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

58-D9-D5 (hex) Tenda Technology Co.,Ltd.Dongguan branch
58D9D5 (base 16) Tenda Technology Co.,Ltd.Dongguan branch
Room 79,Yuanyi Road,Dalang Town,Dongguan Guangdong 523770
Dongguan Guangdong 523770

CN

94-D2-99 (hex) Techmation Co.,Ltd.
94D299 (base 16) Techmation Co.,Ltd.
9F., No.529, Zhongzheng Rd., Xindian Dist., New Taipei City 231, Taiwan
New Taipei City 231
TW

6C-AB-31 (hex) Apple, Inc.
6CAB31 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

4C-74-BF (hex) Apple, Inc.
4C74BF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

04-94-6B (hex) TECNO MOBILE LIMITED
04946B (base 16) TECNO
MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

A0-4C-5B (hex) Shenzhen TINNO Mobile Technology Corp.
A04C5B (base 16) Shenzhen TINNO Mobile Technology Corp.
Building, No.33, Xiandong Rd, Xili
Nanshan District, Shenzhen PRC 518053
CN

F8-59-71 (hex) Intel Corporate
F85971 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

34-1A-35 (hex) Fiberhome Telecommunication Technologies Co.,LTD
341A35 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

2C-02-9F (hex) 3ALogics
2C029F (base 16) 3ALogics

#704, Hyundai office B'd, Sunae-dong, Bundang-gu
Seongnam-si 13601
KR

00-05-0F (hex) Tanaka S/S Ltd.
00050F (base 16) Tanaka S/S Ltd.
1942 Nomura Hirooka
Nagano 399-0702
JP

48-88-03
(hex) ManTechnology Inc.
488803 (base 16) ManTechnology Inc.
12th Fl, 308-4 Seongsoodong 2ga, Seongdonggu
Seoul 04781
KR

B4-36-E3 (hex) KBVISION GROUP
B436E3 (base 16) KBVISION GROUP
337 N. Vineyard Avenue, 4th Floor, San Jose, CA 91764
San Jose CA 90847
US

6C-4B-90 (hex) LiteON
6C4B90 (base 16) LiteON
5F, No.90, Rd. Chien 1, ChungHo
New Taipei Taiwan 23505
TW

2C-AB-EB (hex) Cisco Systems, Inc
2CABEB (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

64-D1-54 (hex) Routerboard.com
64D154 (base 16) Routerboard.com
Mikrotikls SIA
Riga Riga LV1009
LV

98-9E-63 (hex) Apple, Inc.
989E63 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

88-6B-6E (hex) Apple, Inc.

886B6E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D4-DC-CD (hex) Apple, Inc.
D4DCCD (base 16) Apple, Inc.
1 Infinite
Loop
Cupertino CA 95014
US

48-4B-AA (hex) Apple, Inc.
484BAA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

DC-A9-04 (hex) Apple, Inc.
DCA904 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

BC-45-2E (hex) Knowledge Development for POF S.L.
BC452E (base 16) Knowledge Development for POF S.L.
Ronda de Poniente 14, 2-C,D
Tres Cantos Madrid 28760
ES

70-6D-EC (hex) Wifi-soft LLC
706DEC (base 16) Wifi-soft LLC
616, West Monroe
Austin TX 78704
US

B0-C2-05 (hex) BIONIME
B0C205 (base 16) BIONIME
No.100, Sec.2, Daqing St., South Dist.,
Taichung Taiwan 40242
TW

94-F5-51 (hex) Cadi Scientific Pte Ltd
94F551 (base 16) Cadi Scientific Pte Ltd
31 Ubi Road 1, Aztech Building, #07-01A
Singapore 408694
SG

F4-E4-AD (hex) zte corporation
F4E4AD (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen
guangdong 518057
CN

28-FF-3E (hex) zte corporation
28FF3E (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

B8-D7-AF (hex) Murata Manufacturing Co., Ltd.
B8D7AF (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

D4-AE-05 (hex) Samsung Electronics Co.,Ltd
D4AE05 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

10-05-CA (hex) Cisco Systems, Inc
1005CA (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

78-94-B4 (hex) Sercomm Corporation.
7894B4 (base 16) Sercomm Corporation.
3F,No.81,Yu-Yih Rd.,Chu-Nan Chen
Miao-Lih Hsuan 115
TW

E0-48-AF (hex) Premietech Limited
E048AF (base 16) Premietech Limited
Unit 805, Tower 3, Enterprise Square I
No. 9 Sheung Yuet Road Kowloon Bay
HongKong 00000
HK

2C-33-11 (hex) Cisco Systems, Inc
2C3311 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568

US

50-82-D5 (hex) Apple, Inc.
5082D5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

3C-A0-67 (hex) Liteon Technology Corporation
3CA067 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

F0-EE-10 (hex) Samsung Electronics Co.,Ltd
F0EE10 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C4-70-0B (hex) GUANGZHOU CHIP TECHNOLOGIES CO.,LTD
C4700B (base 16) GUANGZHOU CHIP TECHNOLOGIES CO.,LTD
4th floor, Building J of JiTang Industrial Zone, No. 8 NanYun fifth road, HuangPu District
Guangzhou Guangdong 510700
CN

44-37-08 (hex) MRV Comunications
443708 (base 16) MRV Comunications
Hayetzira
Yokneam 614
IL

1C-1E-E3 (hex) Hui Zhou Gaoshengda
Technology Co.,LTD
1C1EE3 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

44-03-2C (hex) Intel Corporate
44032C (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

50-0F-F5 (hex) Tenda Technology Co.,Ltd.Dongguan branch
500FF5 (base 16) Tenda Technology Co.,Ltd.Dongguan branch
Room 79,Yuanyi Road,Dalang Town,Dongguan Guangdong 523770

Dongguan Guangdong 523770
CN

BC-02-4A (hex) HMD Global Oy
BC024A (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

94-99-01 (hex) Shenzhen YITOA Digital Appliance CO.,LTD
949901 (base 16) Shenzhen YITOA Digital Appliance CO.,LTD
5/F,Yitoa Building,Keji South Road 5th,Hi-tech Industrial Park,Nanshan District,
shenzhen Guangdong 518000
CN

28-5F-2F (hex) RNware Co.,Ltd.
285F2F (base 16) RNware Co.,Ltd.
#202 ICT Park Bldg,
205, Songhyun-ro, Dalseo-gu
Daegu 42734
KR

10-5A-F7 (hex) ADB Italia
105AF7 (base 16) ADB Italia
Viale Sarca 222
Milan Italy 20126
IT

B8-1D-AA (hex) LG Electronics (Mobile Communications)
B81DAA (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

00-E4-00 (hex) Sichuan Changhong Electric Ltd.
00E400 (base 16) Sichuan Changhong Electric Ltd.
No.35,East MianXin Road,MianYang,Sichaun,China.
MianYang SiChuan PRC 621000
CN

54-2F-8A (hex) TELLESCOM INDUSTRIA E COMERCIO EM TELECOMUNICACAO
542F8A (base 16) TELLESCOM INDUSTRIA E COMERCIO EM TELECOMUNICACAO
Av. Buriti, 1900 – Setor B – Distrito Industrial
Manaus Amazonas 69075-000
BR

08-CC-A7 (hex) Cisco Systems, Inc
08CCA7 (base 16) Cisco Systems, Inc

80 West Tasman Drive
San Jose CA 94568
US

08-96-AD (hex) Cisco Systems, Inc
0896AD (base 16) Cisco Systems, Inc
80
West Tasman Drive
San Jose CA 94568
US

2C-55-D3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
2C55D3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

DC-C6-4B (hex) HUAWEI TECHNOLOGIES CO.,LTD
DCC64B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-33-89 (hex) HUAWEI TECHNOLOGIES CO.,LTD
043389 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-A0-68 (hex) BHP LIMITED
00A068 (base 16) BHP LIMITED
1500 Post Oak Boulevard #11.08 B
Houston TX 77056-3030
US

70-3A-CB (hex) Google, Inc.
703ACB (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

00-C0-24 (hex) EDEN SISTEMAS DE COMPUTACAO SA
00C024 (base 16) EDEN SISTEMAS DE COMPUTACAO SA
RUA
DO OUVIDOR 121 5 ANDAR

BR

7C-46-85 (hex) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
7C4685 (base 16) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
No.19, Gaoxin 4th Road, Wuhan East Lake High-tech Zone, Wuhan
Wuhan Hubei 430000
CN

60-14-B3 (hex) CyberTAN Technology Inc.
6014B3 (base 16) CyberTAN Technology Inc.
99 Park Ave III, Hsinchu Science Park
Hsinchu 308
TW

10-56-11 (hex) ARRIS Group, Inc.
105611 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

1C-39-8A (hex) Fiberhome Telecommunication Technologies Co.,LTD
1C398A (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

00-17-9B (hex) CHANT SINCERE CO.,LTD
00179B (base 16) CHANT SINCERE CO.,LTD
7F-2,NO.188,Sec 3,Ta Tung Rood,
Hsi Chih City Taipei Hsien 221
TW

78-68-F7 (hex) YSTen Technology
Co.,Ltd
7868F7 (base 16) YSTen Technology Co.,Ltd
Room 1715,17/F North Star Times Tower,Chaoyang District,Beijing.
Beijing 100101
CN

44-D4-37 (hex) Inteno Broadband Technology AB
44D437 (base 16) Inteno Broadband Technology AB
Stensätravägen 13
Skärholmen SE 127 39
SE

EC-E1-54 (hex) Beijing Unisound Information Technology Co.,Ltd.
ECE154 (base 16) Beijing Unisound Information Technology Co.,Ltd.
Rm406,keyan Building,Tsinghua Hi-tech Park,High-tech Industrial Park North Area,Nanshan
Shenzhen 518057
CN

E8-65-D4 (hex) Tenda Technology Co.,Ltd.Dongguan branch
E865D4 (base 16) Tenda Technology Co.,Ltd.Dongguan branch
Room 79,Yuanyi Road,Dalang Town,Dongguan Guangdong 523770
Dongguan Guangdong 523770
CN

24-D5-1C (hex) Zhongtian broadband technology co., LTD
24D51C (base 16) Zhongtian broadband technology co., LTD
Rudong hekou town Zhongtian industrial park
Nantong jiangsu Province
226463
CN

EC-43-F6 (hex) Zyxel Communications Corporation
EC43F6 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

60-C6-58 (hex) PHYTRONIX Co.,Ltd.
60C658 (base 16) PHYTRONIX Co.,Ltd.
1877-3 Ootashimo-machi
Takamatsu Kagawa 761-8073
JP

FC-B5-8A (hex) Wapice Ltd.
FCB58A (base 16) Wapice Ltd.
Yliopistonranta 5
Vaasa 65200
FI

34-78-77 (hex) O-Net Communications (Shenzhen) Limited
347877 (base 16) O-Net Communications (Shenzhen) Limited
#10-1 South,Maqueling Industrial Park,Nanshan District
Shenzhen Guangdong 518057
CN

00-20-CC (hex) DIGITAL SERVICES, LTD.
0020CC (base 16) DIGITAL SERVICES, LTD.
9 WAYTE STREET
ENGLAND PO6 3BS
GB

08-23-B2 (hex) vivo Mobile Communication Co., Ltd.
0823B2 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860

CN

88-C3-B3
(hex) SOVICO
88C3B3 (base 16) SOVICO
2271-5 Nambusunhwan-ro, Seocho-gu
Seoul 06703
KR

A4-62-DF (hex) DS Global. Co., LTD
A462DF (base 16) DS Global. Co., LTD
3F, 107, Gasan digital 2-ro, Geumcheon-gu
Seoul 08505
KR

4C-16-94 (hex) shenzhen sibituo Technology Co., Ltd
4C1694 (base 16) shenzhen sibituo Technology Co., Ltd
15C Yuehua Park Nanshan Road Nanshan District
SHENZHEN guangdong 518000
CN

6C-16-0E (hex) ShotTracker
6C160E (base 16) ShotTracker
7220 W Frontage Rd
Merriam KS 66203
US

80-3A-0A (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
803A0A (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

E0-51-24 (hex) NXP Semiconductors
E05124 (base 16) NXP Semiconductors
411 E. Plumeria Drive
San Jose CA 95134
US

00-1D-A3 (hex) SabiOso
001DA3 (base 16) SabiOso
189
S State Suite #250
Clearfield Utah 84015
US

68-9F-F0 (hex) zte corporation
689FF0 (base 16) zte corporation

12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

00-01-4F (hex) Adtran Inc
00014F (base 16) Adtran Inc
901 Explorer Blvd.
Huntsville AL 35806-2807
US

28-52-61 (hex) Cisco Systems, Inc
285261 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

28-6F-7F (hex) Cisco Systems, Inc
286F7F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

20-78-0B (hex) Delta Faucet Company
20780B (base 16) Delta Faucet Company
55 East 111th Street
Indianapolis IN 46280
US

0C-73-BE (hex) Dongguan Haimai Electronie Technology Co.,Ltd
0C73BE (base 16) Dongguan Haimai Electronie Technology Co.,Ltd
Room 701Yifeng Building7, No.8 Industrial Zone, Xianbian Road, Changan Town Xiaobian edge
Dongguan
Guangdong 518000
CN

F0-C8-50 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F0C850 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C8-14-51 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C81451 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

5C-AF-06 (hex) LG Electronics (Mobile Communications)

5CAF06 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

24-A7-DC (hex) SKY UK LIMITED
24A7DC (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

98-B6-E9 (hex) Nintendo Co.,Ltd
98B6E9 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

F8-98-3A (hex) Leeman International (HongKong) Limited
F8983A (base 16) Leeman International (HongKong) Limited
Number
13 first floor Y1 cultural creative park bantian
shen zhen 51800
CN

4C-EC-EF (hex) Soraa, Inc.
4CECEF (base 16) Soraa, Inc.
6500 Kaiser Dr Suite 110
Fremont CA 94555
US

1C-EF-CE (hex) bebro electronic GmbH
1CEFCE (base 16) bebro electronic GmbH
MAx-Planck-Str. 6-8
Frickenhausen 72636
DE

30-E1-71 (hex) Hewlett Packard
30E171 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

F0-15-B9 (hex) PlayFusion Limited
F015B9 (base 16) PlayFusion Limited
St Johns Innovation Centre
Cambridge CB4 0WS
GB

64-DB-A0 (hex) Select Comfort
64DBA0 (base 16) Select Comfort
9800 59th Ave N
Minneapolis MN 55442
US

2C-D0-2D (hex) Cisco Systems, Inc
2CD02D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

18-40-A4 (hex) Shenzhen Trylong Smart Science and Technology Co., Ltd.
1840A4 (base 16) Shenzhen Trylong Smart
Science and Technology Co., Ltd.
15E, qingdian building, No#6007, Binhe road, futian district
Shenzhen city Guangdong Province 518100
CN

C8-AA-55 (hex) Hunan Comtom Electronic Incorporated Co.,Ltd
C8AA55 (base 16) Hunan Comtom Electronic Incorporated Co.,Ltd
6 -7 Floor, Jindan Building B,Xiongtian Road, Furong District
changsha Hunan 410126
CN

64-B0-A6 (hex) Apple, Inc.
64B0A6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

7C-04-D0 (hex) Apple, Inc.
7C04D0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

84-FC-AC (hex) Apple, Inc.
84FCAC (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

DC-0C-5C (hex) Apple, Inc.
DC0C5C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

70-70-0D (hex) Apple, Inc.
70700D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-1D-72 (hex) Wistron Corporation
001D72
(base 16) Wistron Corporation
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221
TW

18-65-90 (hex) Apple, Inc.
186590 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F8-62-14 (hex) Apple, Inc.
F86214 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

78-4F-43 (hex) Apple, Inc.
784F43 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

40-4D-7F (hex) Apple, Inc.
404D7F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

1C-48-CE (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
1C48CE (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

D8-19-7A (hex) Nuheara Ltd
D8197A (base 16) Nuheara Ltd
Unit 5, 28 John St
Northbridge WA 6003

AU

4C-38-D5 (hex) MITAC COMPUTING TECHNOLOGY CORPORATION
4C38D5 (base
16) MITAC COMPUTING TECHNOLOGY CORPORATION
3F., NO.1, R&D ROAD 2, HSINCHU SCIENCE PARK
HSINCHU 30076
TW

54-B5-6C (hex) Xi'an NovaStar Tech Co., Ltd
54B56C (base 16) Xi'an NovaStar Tech Co., Ltd
4F, Block D, Qinfeng Pavilion, Xi'an Software Park, No.68 Keji 2nd Rd.,
Xi'an Shanxi 710075
CN

2C-DC-AD (hex) Wistron Neweb Corporation
2CDCAD (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

6C-5C-14 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
6C5C14 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

4C-74-87 (hex) Leader Phone Communication Technology Co., Ltd.
4C7487 (base 16) Leader Phone Communication Technology Co., Ltd.
121 Room (Park) No.1 Building, No.10 Xinghuo Road Science City Feng-tai District, Beijing, China
Beijing 100070
CN

C8-0C-C8 (hex) HUAWEI
TECHNOLOGIES CO.,LTD
C80CC8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

34-4C-C8 (hex) Echodyne Corp
344CC8 (base 16) Echodyne Corp
2380 116th Ave NE
Bellevue WA 98004
US

64-13-6C (hex) zte corporation
64136C (base 16) zte corporation

12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

04-B6-48 (hex) ZENNER
04B648 (base 16) ZENNER
Roemerstadt 6
Saarbruecken 66121
DE

98-F1-99 (hex) NEC Platforms, Ltd.
98F199 (base 16) NEC Platforms, Ltd.
2-3 Kandatsukasamachi
Chiyodaku Tokyo 101-8532
JP

60-3E-7B (hex) Gafachi, Inc.
603E7B (base 16) Gafachi, Inc.
1 W Main St., STE 650
Rochester NY 14614
US

04-25-C5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
0425C5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan
523808
CN

AC-83-F3 (hex) AMPAK Technology, Inc.
AC83F3 (base 16) AMPAK Technology, Inc.
No.1,Jen Ai Road Hsinchu Industrial Park, Hukou
Hsinchu Taiwan ROC. 30352
TW

90-D7-BE (hex) Wavelab Global Inc.
90D7BE (base 16) Wavelab Global Inc.
12007 Sunrise Valley Drive, Suite 450
Reston VA 20191
US

24-4E-7B (hex) IEEE Registration Authority
244E7B (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

30-AE-A4 (hex) Espressif Inc.

30AEA4 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

CC-8C-DA (hex) Shenzhen Wei Da Intelligent Technology Go.,Ltd
CC8CDA (base 16) Shenzhen Wei Da Intelligent Technology Go.,Ltd
5K, Block B,Yueshang Center Cultural Square Jianshe East Rd Longhua New District
Shenzhen 518109
CN

D4-36-DB (hex) Jiangsu Toppower Automotive Electronics Co., Ltd
D436DB
(base 16) Jiangsu Toppower Automotive Electronics Co., Ltd
No. 2 Tuolanshan Road
Xuzhou Jiangsu 221004
CN

7C-25-87 (hex) chaowifi.com
7C2587 (base 16) chaowifi.com
No. 502 1th Building TaiHe Square
HangZhou QianJiangRoad 310002
CN

B0-A2-E7 (hex) Shenzhen TINNO Mobile Technology Corp.
B0A2E7 (base 16) Shenzhen TINNO Mobile Technology Corp.
Building, No.33, Xiandong Rd, Xili
Nanshan District, Shenzhen PRC 518053
CN

E8-09-45 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
E80945 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

00-21-44 (hex) SS Telecoms
002144 (base 16) SS Telecoms
23 Botha Avenue
Centurion Gauteng 0140
ZA

20-71-9E (hex) SF Technology Co.,Ltd
20719E (base 16) SF Technology Co.,Ltd
1/F,Block B,Building 1,ShenzhenSoftware Industry Base,Hi-Tech Industrial Park South
Shenzhen Guangdong
Province 518054
CN

2C-C2-60 (hex) Oracle Corporation
2CC260 (base 16) Oracle Corporation
Zarhin 13
Raanana 4366241
IL

3C-3F-51 (hex) 2CRSI
3C3F51 (base 16) 2CRSI
32 rue Jacobi-Netter
STRASBOURG France 67200
FR

3C-2A-F4 (hex) Brother Industries, LTD.
3C2AF4 (base 16) Brother Industries, LTD.
15-1, Naeshirocho, Mizuho-ku
NAGOYA 4678561
JP

50-58-4F (hex) waytotec,Inc.
50584F (base 16) waytotec,Inc.
#604-4,B-Dong,Bundang Technopark,148,Yatap-dong,Bundang-gu,
Seongnam-si Gyeonggi-do 13511
KR

CC-61-E5 (hex) Motorola Mobility LLC, a Lenovo Company
CC61E5 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

EC-0D-9A (hex) Mellanox Technologies, Inc.
EC0D9A (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

3C-FA-43 (hex) HUAWEI TECHNOLOGIES CO.,LTD
3CFA43
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

14-5F-94 (hex) HUAWEI TECHNOLOGIES CO.,LTD
145F94 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

CC-94-70 (hex) Kinestral Technologies, Inc.
CC9470 (base 16) Kinestral Technologies, Inc.
400 E Jamie Ct., Ste. 201
South San Francisco CA 94080
US

08-5D-DD (hex) MERCURY CORPORATION
085DDD (base 16) MERCURY CORPORATION
90, Gajaeul-ro, Seo-gu
INCHEON 22830
KR

78-23-AE (hex) ARRIS Group, Inc.
7823AE (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1F-82 (hex) Cal-Comp Electronics & Communications Company Ltd.
001F82 (base 16) Cal-Comp Electronics & Communications Company Ltd.
No.147, Sec. 3, Beishen Rd
Shenkeng Dist New Taipei City ---
TW

88-3C-1C
(hex) MERCURY CORPORATION
883C1C (base 16) MERCURY CORPORATION
90, Gajaeul-ro, Seo-gu
INCHEON 22830
KR

28-34-A2 (hex) Cisco Systems, Inc
2834A2 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

00-6B-F1 (hex) Cisco Systems, Inc
006BF1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-50-1E (hex) Grass Valley, A Belden Brand
00501E (base 16) Grass Valley, A Belden Brand
3499, Douglas B. Floreani

Montreal Quebec H4S 2C6
CA

B4-39-D6 (hex) ProCurve Networking by HP
B439D6 (base 16) ProCurve Networking by HP
60 Alexandra Terrace
0000 118502
SG

34-F3-9A (hex) Intel Corporate
34F39A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

8C-60-E7 (hex) MPGIO CO.,LTD
8C60E7 (base 16) MPGIO CO.,LTD
MPGIO Bldg., 98 Uijeong St.,
Uijeongbu Korea / Gyeonggi 11623
KR

8C-8A-BB
(hex) Beijing Orient View Technology Co., Ltd.
8C8ABB (base 16) Beijing Orient View Technology Co., Ltd.
Building NO.1, LiYe Road 7
Huilongguan Town Changping District, Beijing 102206
CN

00-03-9B (hex) NetChip Technology, Inc.
00039B (base 16) NetChip Technology, Inc.
335 Pioneer Way
Mountain View CA 94041
US

60-9A-C1 (hex) Apple, Inc.
609AC1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

74-8D-08 (hex) Apple, Inc.
748D08 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

9C-8B-A0 (hex) Apple, Inc.
9C8BA0 (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

CC-08-8D (hex) Apple, Inc.
CC088D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

38-A4-ED (hex) Xiaomi Communications Co Ltd
38A4ED (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian
District, Beijing 100085
CN

B8-99-19 (hex) 7signal Solutions, Inc
B89919 (base 16) 7signal Solutions, Inc
526 S. Main Street
Akron OH 44311
US

40-FE-0D (hex) MAXIO
40FE0D (base 16) MAXIO
1101-1 digital empire A, 387 simin-daero dongan-gu
anyang-si kyunggi-do 14057
KR

AC-64-DD (hex) IEEE Registration Authority
AC64DD (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

BC-39-D9 (hex) Z-TEC
BC39D9 (base 16) Z-TEC
Donyu 1 Ro
Paju Kyeongkido 10832
KR

30-87-D9 (hex) Ruckus Wireless
3087D9 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

F0-98-38 (hex) HUAWEI TECHNOLOGIES CO.,LTD

F09838 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-B8-19 (hex) Nokia
94B819 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

78-7D-48
(hex) ITEL MOBILE LIMITED
787D48 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

88-71-E5 (hex) Amazon Technologies Inc.
8871E5 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

C0-85-4C (hex) Ragentek Technology Group
C0854C (base 16) Ragentek Technology Group
D10/D11No.3188, Xiupu Road, PuDong District, Shanghai
Shanghai 201315
CN

D8-16-C1 (hex) DEWAV (HK) ELECTRONICS LIMITED
D816C1 (base 16) DEWAV (HK) ELECTRONICS LIMITED
UNIT NO.1-2, 06/F., PERFECT INDUSTRIAL BUILDING,NO. 31 TAI YAU STREET, SAN PO KONG
KOWLOON, HONG KONG 510610
CN

60-EF-C6 (hex) Shenzhen Chima Technologies Co Limited
60EFC6 (base 16) Shenzhen Chima Technologies Co Limited
5F, TongXin Technology Park,HengGang,LongGang,Shenzhen,China
Shenzhen GuangDong 518115
CN

20-DB-AB (hex) Samsung
Electronics Co., Ltd.
20DBAB (base 16) Samsung Electronics Co., Ltd.
416, Maetan-3Dong, Yeongtong-Gu
Suwon Geyonggi-Do 443-742
KR

38-3A-21 (hex) IEEE Registration Authority
383A21 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

D8-38-0D (hex) SHENZHEN IP-COM Network Co.,Ltd
D8380D (base 16) SHENZHEN IP-COM Network Co.,Ltd
No.1001,Zhongshangyuan Road,Nanshan District
Shenzhen Guangdong 518000
CN

FC-CA-C4 (hex) LifeHealth, LLC
FCCAC4 (base 16) LifeHealth, LLC
2656 Patton Rd
Roseville MN 55113
US

88-AD-43 (hex) PEGATRON CORPORATION
88AD43 (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

B4-EF-FA (hex) Lemobile Information Technology (Beijing) Co., Ltd.
B4EFFA (base 16) Lemobile Information Technology (Beijing) Co., Ltd.
5/F LeEco Building, 105 Yaojiayuan Road, Chaoyang District
Beijing
Beijing 100025
CN

00-26-5F (hex) Samsung Electronics Co.,Ltd
00265F (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-23-3A (hex) Samsung Electronics Co.,Ltd
00233A (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

10-12-50 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
101250 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900

MY

B0-C1-28 (hex) Adler ELREHA GmbH
B0C128 (base 16) Adler ELREHA GmbH
Schwetzinger Str. 103
Hockenheim Baden-Württemberg D-68766
DE

F8-1D-78 (hex) IEEE Registration Authority
F81D78 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

38-F7-B2 (hex) SEOJUN ELECTRIC
38F7B2 (base 16) SEOJUN ELECTRIC
468 Gangseo-ro, 07573, SEOJUN ELECTRIC Ace Techno Tower 805
Seoul 07573
KR

78-02-B7
(hex) ShenZhen Ultra Easy Technology CO.,LTD
7802B7 (base 16) ShenZhen Ultra Easy Technology CO.,LTD
608,Building 2,Guangxingyuan Industrial Park A District,
Baoyuan Rd ShenZhen,Guangdong 518102
CN

64-61-84 (hex) VELUX
646184 (base 16) VELUX
Baekgaardsvej 40
Skjern 6900
DK

F0-D9-B2 (hex) EXO S.A.
F0D9B2 (base 16) EXO S.A.
Av. Chiclana 3444
Buenos Aires 1260
AR

E4-C8-01 (hex) BLU Products Inc
E4C801 (base 16) BLU Products Inc
10814 NW 33rd Street
Miami FL 33172
US

00-1F-C6 (hex) ASUSTek COMPUTER INC.
001FC6 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd.,Peitou,Taipei 112 ,Taiwan

Taipei Taiwan 112
TW

6C-71-BD (hex) EZELINK TELECOM
6C71BD (base 16) EZELINK TELECOM
Bay Square Building 06 - Office No 105
Dubai Dubai 111581
AE

00-07-AB (hex) Samsung Electronics Co.,Ltd
0007AB (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi
Gyeongbuk 730-350
KR

E8-E5-D6 (hex) Samsung Electronics Co.,Ltd
E8E5D6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C8-7E-75 (hex) Samsung Electronics Co.,Ltd
C87E75 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

EC-65-CC (hex) Panasonic Automotive Systems Company of America
EC65CC (base 16) Panasonic Automotive Systems Company of America
776 Highway 74 South
Peachtree City null 30269
US

80-69-1A (hex) Belkin International Inc.
80691A (base 16) Belkin International Inc.
12045 East Waterfront Drive
Playa Vista null 90094
US

B8-07-56 (hex) Cisco Meraki
B80756 (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco null 94158
US

34-56-FE (hex) Cisco Meraki
3456FE (base 16) Cisco Meraki

500 Terry A. Francois Blvd
San Francisco null 94158
US

00-1E-84 (hex) Pika
Technologies Inc.
001E84 (base 16) Pika Technologies Inc.
535 Legget Drive
Ottawa Ontario K2K 3B8
CA

10-DD-B1 (hex) Apple, Inc.
10DDB1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-23-29 (hex) DDRdrive LLC
002329 (base 16) DDRdrive LLC
384 Madeline CT
Palo Alto CA 94306
US

00-26-AD (hex) Arada Systems, Inc.
0026AD (base 16) Arada Systems, Inc.
1024 Morse Avenue
Sunnyvale CA 94089
US

00-24-86 (hex) DesignArt Networks
002486 (base 16) DesignArt Networks
4 Ha'haroshet St
Ra'anana 43101
IL

00-24-78 (hex) Mag Tech Electronics Co Limited
002478 (base 16) Mag Tech Electronics Co Limited
Flat / Room T78 GOF Bangkok Building
Sheung Wan HK
HK

38-2D-D1 (hex) Samsung Electronics Co.,Ltd
382DD1 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-1B-2C (hex) ATRON electronic GmbH

001B2C
(base 16) ATRON electronic GmbH
Am Ziegelstadel 12 + 14
Markt Schwaben 85570
DE

00-14-27 (hex) JazzMutant
001427 (base 16) JazzMutant
2 allee du Doyen Georges Brus
Pessac 33600
FR

90-34-FC (hex) Hon Hai Precision Ind. Co.,Ltd.
9034FC (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

88-9F-FA (hex) Hon Hai Precision Ind. Co.,Ltd.
889FFA (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

8C-7C-B5 (hex) Hon Hai Precision Ind. Co.,Ltd.
8C7CB5 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

C4-46-19 (hex) Hon Hai Precision Ind. Co.,Ltd.
C44619 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

AC-63-BE (hex) Amazon
Technologies Inc.
AC63BE (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

08-6A-0A (hex) ASKEY COMPUTER CORP
086A0A (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

98-E7-F4 (hex) Hewlett Packard
98E7F4 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

C8-0E-14 (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
C80E14 (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

FC-1F-19 (hex) SAMSUNG ELECTRO MECHANICS CO., LTD.
FC1F19 (base 16) SAMSUNG ELECTRO MECHANICS CO., LTD.
314, Maetan3-Dong, Yeongtong-Gu
Suwon 443-743
US

84-0B-2D (hex) SAMSUNG ELECTRO MECHANICS CO., LTD.
840B2D (base 16) SAMSUNG ELECTRO MECHANICS CO., LTD.
314, Maetan3-Dong, Yeongtong-Gu
SUWON KYUNGGI-DO 443-743
KR

20-64-32 (hex) SAMSUNG ELECTRO
MECHANICS CO., LTD.
206432 (base 16) SAMSUNG ELECTRO MECHANICS CO., LTD.
314, Maetan3-Dong, Yeongtong-Gu
Suwon Gyunggi-Do 443-743
KR

00-15-99 (hex) Samsung Electronics Co.,Ltd
001599 (base 16) Samsung Electronics Co.,Ltd
416, Maetan-3Dong, Yeongtong-Gu
Suwon AL 443-742
US

00-12-FB (hex) Samsung Electronics Co.,Ltd
0012FB (base 16) Samsung Electronics Co.,Ltd
416, Maetan-3Dong, Yeongtong-Gu
Suwon-City Gyeonggi-Do 443-742
KR

D0-66-7B (hex) Samsung Electronics Co.,Ltd
D0667B (base 16) Samsung Electronics Co.,Ltd
416, Maetan-3dong, Yeongtong-gu
Suwon Gyeonggi-do 443742

KR

E8-03-9A (hex) Samsung Electronics Co.,Ltd
E8039A (base 16) Samsung Electronics Co.,Ltd
416, Maetan 3Dong, Yeongtong-Gu
Suwon Geyonggi 443742
KR

0C-84-DC (hex) Hon Hai Precision Ind. Co.,Ltd.
0C84DC (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing
401332
CN

1C-66-AA (hex) Samsung Electronics Co.,Ltd
1C66AA (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

14-89-FD (hex) Samsung Electronics Co.,Ltd
1489FD (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

BC-85-1F (hex) Samsung Electronics Co.,Ltd
BC851F (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B8-5E-7B (hex) Samsung Electronics Co.,Ltd
B85E7B (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B4-07-F9 (hex) SAMSUNG ELECTRO MECHANICS CO., LTD.
B407F9 (base 16) SAMSUNG ELECTRO MECHANICS CO., LTD.
Suwon-Si, Gyeonggi_Do, Korea
Suwon Gyeonggi_Do 443-743
KR

00-16-6C (hex) Samsung Electronics Co.,Ltd
00166C (base 16) Samsung Electronics Co.,Ltd
416, Maetan-3Dong,Yeongtong-Gu

Suwon Gyeonggi-Do 443-742
KR

50-63-13
(hex) Hon Hai Precision Ind. Co.,Ltd.
506313 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

60-D8-19 (hex) Hon Hai Precision Ind. Co.,Ltd.
60D819 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

F8-2F-A8 (hex) Hon Hai Precision Ind. Co.,Ltd.
F82FA8 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

00-24-91 (hex) Samsung Electronics Co.,Ltd
002491 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

3C-8B-FE (hex) Samsung Electronics Co.,Ltd
3C8BFE (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D4-E8-B2 (hex) Samsung Electronics Co.,Ltd
D4E8B2 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk
730-350
KR

00-23-39 (hex) Samsung Electronics Co.,Ltd
002339 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

30-CD-A7 (hex) Samsung Electronics Co.,Ltd

30CDA7 (base 16) Samsung Electronics Co.,Ltd
416 MAETAN 3-DONG
SUWON- SI 443-742
US

00-12-47 (hex) Samsung Electronics Co.,Ltd
001247 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi-City Gyeong-Buk 730-350
KR

00-15-B9 (hex) Samsung Electronics Co.,Ltd
0015B9 (base 16) Samsung Electronics Co.,Ltd
#94-1
Gumi-City Gyeong-Buk 730-350
KR

50-01-BB (hex) Samsung Electronics Co.,Ltd
5001BB (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

2C-44-01 (hex) Samsung Electronics Co.,Ltd
2C4401 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B8-D9-CE (hex) Samsung Electronics Co.,Ltd
B8D9CE
(base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C4-01-42 (hex) MaxMedia Technology Limited
C40142 (base 16) MaxMedia Technology Limited
5F, No. 113, Jian 2nd Rd. Jhonghe District.
New Taipei City 23585
TW

84-30-E5 (hex) SkyHawke Technologies, LLC
8430E5 (base 16) SkyHawke Technologies, LLC
274 Commerce Park Dr, Ste M
Ridgeland MS 39157
US

1C-77-F6 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
1C77F6 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

58-E3-26 (hex) Compass Technologies Inc.
58E326 (base 16) Compass Technologies Inc.
Unit 1012 C-dong, Woolim Lion's Valley
Seoul Seoul 153-786
KR

00-1B-2A (hex) Cisco Systems, Inc
001B2A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

74-9D-DC (hex) 2Wire Inc
749DDC (base
16) 2Wire Inc
1764 Automation Parkway
San Jose 95131
US

9C-B2-B2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
9CB2B2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-C8-3A (hex) HUAWEI TECHNOLOGIES CO.,LTD
A8C83A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

14-DD-E5 (hex) MPMKVVCL
14DDE5 (base 16) MPMKVVCL
NISHTHA PARISAR, GOVINDPURA
BHOPAL MADHYA PRADESH 462023
IN

00-1A-09 (hex) Wayfarer Transit Systems Ltd
001A09 (base 16) Wayfarer Transit Systems Ltd
10 Willis Way
Poole Dorset BH15 3SS
GB

C8-BA-94 (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
C8BA94 (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak
Bangpakong Chachoengsao 24180
TH

84-38-38 (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
843838 (base 16) SAMSUNG
ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak
Bangpakong Chachoengsao 24180
TH

54-88-0E (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
54880E (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak
Bangpakong Chachoengsao 24180
TH

F0-25-B7 (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
F025B7 (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak
Bangpakong Chachoengsao 24180
TH

F0-43-47 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F04347 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E4-92-FB (hex) Samsung Electronics Co.,Ltd
E492FB (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

6C-B7-F4 (hex) Samsung Electronics Co.,Ltd
6CB7F4 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

18-1E-B0 (hex) Samsung Electronics Co.,Ltd
181EB0
(base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong

Gumi Gyeongbuk 730-350
KR

24-7F-20 (hex) Sagemcom Broadband SAS
247F20 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

BC-72-B1 (hex) Samsung Electronics Co.,Ltd
BC72B1 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

78-F7-BE (hex) Samsung Electronics Co.,Ltd
78F7BE (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

68-48-98 (hex) Samsung Electronics Co.,Ltd
684898 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

34-23-BA (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
3423BA (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak
Bangpakong 24180
US

40-0E-85 (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
400E85 (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T.
Bangsamak
Bangpakong 24180
US

74-23-44 (hex) Xiaomi Communications Co Ltd
742344 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

E0-9D-FA (hex) Wanan Hongsheng Electronic Co.Ltd
E09DFA (base 16) Wanan Hongsheng Electronic Co.Ltd

1st section of industrial pack,Wan'An County,Ji'An City,jiangxi province
Wanan China/jiangxi 343800
CN

00-36-76 (hex) ARRIS Group, Inc.
003676 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

FC-8E-7E (hex) ARRIS Group, Inc.
FC8E7E (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

FC-6F-B7 (hex) ARRIS Group, Inc.
FC6FB7 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

D4-2C-0F (hex) ARRIS Group, Inc.
D42C0F (base 16) ARRIS Group, Inc.
6450 Sequence
Drive
San Diego CA 92121
US

A0-55-DE (hex) ARRIS Group, Inc.
A055DE (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

80-F5-03 (hex) ARRIS Group, Inc.
80F503 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

5C-3C-27 (hex) Samsung Electronics Co.,Ltd
5C3C27 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

44-AA-F5 (hex) ARRIS Group, Inc.

44AAF5 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

70-A8-4C (hex) MONAD., Inc.
70A84C (base 16) MONAD., Inc.
702, Hanlla Sigma Vally, 545, Dunchon-daero, Jungwon-gu
Seongnam-Shi 13215
KR

84-C7-EA (hex) Sony Corporation
84C7EA (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

24-E4-3F (hex) Wenzhou Kunmei Communication Technology Co.,Ltd.
24E43F (base 16) Wenzhou Kunmei Communication
Technology Co.,Ltd.
Baitawang industrial zone,Yueqing,Zhejiang
Yueqing Zhejiang 310025
CN

2C-AC-44 (hex) CONEXTOP
2CAC44 (base 16) CONEXTOP
Room 608, 6/F, Electric Building , High-tech Park , Nanshan
Shenzhen 51800
CN

28-7A-EE (hex) ARRIS Group, Inc.
287AEE (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

A4-82-69 (hex) Datrium, Inc.
A48269 (base 16) Datrium, Inc.
385 Moffett Park Drive
Sunnyvale CA 94089
US

00-25-8B (hex) Mellanox Technologies, Inc.
00258B (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

00-56-2B (hex) Cisco Systems, Inc
00562B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E8-FD-90 (hex) Turbostor
E8FD90 (base 16) Turbostor
47800 Westinghouse Drive
Fremont CA 94539
US

18-99-F5 (hex) Sichuan Changhong Electric Ltd.
1899F5
(base 16) Sichuan Changhong Electric Ltd.
No.35,East MianXin Road,MianYang,Sichaun,China.
MianYang SiChuan PRC 621000
CN

D0-13-FD (hex) LG Electronics (Mobile Communications)
D013FD (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

BC-64-4B (hex) ARRIS Group, Inc.
BC644B (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

88-79-7E (hex) Motorola Mobility LLC, a Lenovo Company
88797E (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

30-58-90 (hex) Frontier Silicon Ltd
305890 (base 16) Frontier Silicon Ltd
137 Euston Road
London NW12AA
GB

70-8B-CD (hex) ASUSTek COMPUTER INC.
708BCD (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

60-64-05 (hex) Texas Instruments
606405 (base 16) Texas
Instruments
12500 TI Blvd
Dallas TX 75243
US

10-E6-8F (hex) KWANGSUNG ELECTRONICS KOREA CO.,LTD.
10E68F (base 16) KWANGSUNG ELECTRONICS KOREA CO.,LTD.
356-3, Gongdan-ro
Gunpo-si Gyeonggi-do 15808
KR

4C-FA-CA (hex) Cambridge Industries(Group) Co.,Ltd.
4CFACA (base 16) Cambridge Industries(Group) Co.,Ltd.
5/F,Building 8, 2388 ChenHang Road, MinHang District
shanghai 201114
CN

00-25-C3 (hex) 21168
0025C3 (base 16) 21168
CARRETERA BASE AEREA # 5850
Zapopan Jalisco 44130
MX

00-0F-57 (hex) CABLELOGIC Co., Ltd.
000F57 (base 16) CABLELOGIC Co., Ltd.
3F., Hwain Bldg., 1559-12 Seocho 3-dong,
Seoul 137-873
KR

00-03-42 (hex) Nortel Networks
000342 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-12-83 (hex) Nortel Networks
001283 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-11-F9 (hex) Nortel Networks
0011F9
(base 16) Nortel Networks
8200 Dixie Rd

Brampton Ontario 0000
CA

00-11-58 (hex) Nortel Networks
001158 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-0F-6A (hex) Nortel Networks
000F6A (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-0E-62 (hex) Nortel Networks
000E62 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-0C-F8 (hex) Nortel Networks
000CF8 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-09-97 (hex) Nortel Networks
000997 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-1C-EB (hex) Nortel Networks
001CEB (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-1C-17 (hex) Nortel Networks
001C17 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

18-AB-F5 (hex) Ultra
Electronics Electrics
18ABF5 (base 16) Ultra Electronics Electrics

Kingsditch Lane
Cheltenham Gloucestershire GL51 9PG
GB

B0-3E-B0 (hex) MICRODIA Ltd.
B03EB0 (base 16) MICRODIA Ltd.
Suites 1608-1610, 16/F., Prosperity Centre, 25 Chong Yip Street,
Kwun Tong Kowloon, 000000
HK

00-15-91 (hex) RLW Inc.
001591 (base 16) RLW Inc.
2029 Cato Ave.
State College PA 16801
US

00-18-2E (hex) XStreamHD
00182E (base 16) XStreamHD
7900B Westpark Drive
McLean VA 22102
US

00-1A-8F (hex) Nortel Networks
001A8F (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-17-D1 (hex) Nortel Networks
0017D1 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-14-C7 (hex) Nortel Networks
0014C7 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-1D-AF (hex) Nortel Networks
001DAF (base 16) Nortel Networks
8200
Dixie Rd
Brampton Ontario 0000
CA

00-26-F1 (hex) ProCurve Networking by HP

0026F1 (base 16) ProCurve Networking by HP
60 Alexandra Terrace
0000 118502
SG

38-0D-D4 (hex) Primax Electronics Ltd.
380DD4 (base 16) Primax Electronics Ltd.
8F,No. 669, Ruey Kuang Road, Neihu
Taipei 114
TW

98-FD-B4 (hex) Primax Electronics Ltd.
98FDB4 (base 16) Primax Electronics Ltd.
No. 669, Ruey Kuang Road, Neihu
Taipei Taiwan, R.O.C.
TW

D8-C4-6A (hex) Murata Manufacturing Co., Ltd.
D8C46A (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

88-83-22 (hex) Samsung Electronics Co.,Ltd
888322 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E8-93-09 (hex) Samsung Electronics Co.,Ltd
E89309 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

98-2F-3C
(hex) Sichuan Changhong Electric Ltd.
982F3C (base 16) Sichuan Changhong Electric Ltd.
35 East Mianxing Road,High-Tech Park,
MianYang SiChuan 621000
CN

D8-FB-68 (hex) Cloud Corner Ltd.
D8FB68 (base 16) Cloud Corner Ltd.
Cloud Corner Smart Bldg, Mei Ju Center NO.39 Dongcheng South Road
Dong Guan Guang Dong 523129
CN

68-53-88 (hex) P&S Technology
685388 (base 16) P&S Technology
216 Deajiro
Yongin-si Gyeonggi-do 448-813
KR

14-C1-FF (hex) ShenZhen QianHai Comlan communication Co.,LTD
14C1FF (base 16) ShenZhen QianHai Comlan communication Co.,LTD
Shenzhen Nanshan district keyuan road Dongfang science and technology building, room 2407.
ShenZhen GuangDong 518000
CN

00-04-17 (hex) ELAU AG
000417 (base 16) ELAU AG
Dillberg 12

DE

EC-FA-AA (hex) The IMS Company
ECFAAA (base 16) The IMS Company
2929 E. Imperial Highway
Brea CA 92821
US

F0-07-86 (hex) Shandong
Bittel Electronics Co., Ltd
F00786 (base 16) Shandong Bittel Electronics Co., Ltd
No.1 Rizhao North Road
Rizhao Shandong 276800
CN

00-D0-F6 (hex) Nokia
00D0F6 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

44-33-4C (hex) Shenzhen Bilian electronic CO.,LTD
44334C (base 16) Shenzhen Bilian electronic CO.,LTD
NO 268
Shenzhen Guangdong 518110
CN

AC-A2-13 (hex) Shenzhen Bilian electronic CO.,LTD
ACA213 (base 16) Shenzhen Bilian electronic CO.,LTD
NO 268Fuqian Rd,Jutang Community
shenzhen guangdong 518110
CN

3C-33-00 (hex) Shenzhen Bilian electronic CO.,LTD
3C3300 (base 16) Shenzhen Bilian electronic CO.,LTD
NO 268Fuqian Rd,Jutang Community,Guanlan town , LongHua new district
Shenzhen Guangdong 518110
CN

54-A6-19 (hex) Alcatel-Lucent Shanghai Bell Co., Ltd
54A619 (base 16) Alcatel-Lucent Shanghai Bell Co., Ltd
No. 389, Ningqiao Road, Pudong Jinqiao
Shanghai
201206
CN

00-21-05 (hex) Alcatel-Lucent IPD
002105 (base 16) Alcatel-Lucent IPD
701 E. Middlefield Rd.
Mountain View CA 94043
US

38-F8-CA (hex) OWIN Inc.
38F8CA (base 16) OWIN Inc.
Chosunref 5fl,577,Seolleung-ro,Gangnam-gu
Seoul 682-20
KR

E4-17-D8 (hex) 8BITDO TECHNOLOGY HK LIMITED
E417D8 (base 16) 8BITDO TECHNOLOGY HK LIMITED
Rooms 1318-19, 13/F, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hong Kong
Hong Kong Hong Kong 000000
CN

20-57-AF (hex) Shenzhen FH-NET OPTOELECTRONICS CO.,LTD
2057AF (base 16) Shenzhen FH-NET OPTOELECTRONICS CO.,LTD
5/F Building D1 TCL International E City NO.1001 Zhong shan yuan Rd, Nanshan District Shenzhen china
Shenzhen GuangDong 518055
CN

54-DC-1D (hex) Yulong Computer Telecommunication Scientific (Shenzhen) Co.,Ltd
54DC1D (base 16) Yulong Computer Telecommunication Scientific (Shenzhen) Co.,Ltd
Road NO2, West of Industrial
Park,North of Science & Technology Park
Dongguan Guangdong 518057
CN

88-2B-D7 (hex) ADDÉNERGIE TECHNOLOGIES
882BD7 (base 16) ADDÉNERGIE TECHNOLOGIES
533 avenue de la montagne LOCAL 121

Shawinigan Quebec G9N 0A3
CA

00-90-CC (hex) PLANEX COMMUNICATIONS INC.
0090CC (base 16) PLANEX COMMUNICATIONS INC.
2F FENISSAY Ebisu Bldg
Shibuya-ku, Tokyo 150-0011
JP

00-22-CF (hex) PLANEX COMMUNICATIONS INC.
0022CF (base 16) PLANEX COMMUNICATIONS INC.
2F F NISSAY Ebisu Bldg3-16-3
Shibuya-ku Tokyo 150-0011
JP

78-C3-E9 (hex) Samsung Electronics Co.,Ltd
78C3E9 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

8C-1A-BF (hex) Samsung Electronics Co.,Ltd
8C1ABF (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

30-CB-F8 (hex) Samsung Electronics Co.,Ltd
30CBF8 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi
Gyeongbuk 730-350
KR

A0-CB-FD (hex) Samsung Electronics Co.,Ltd
A0CBFD (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C0-E4-2D (hex) TP-LINK TECHNOLOGIES CO.,LTD.
C0E42D (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

8C-A6-DF (hex) TP-LINK TECHNOLOGIES CO.,LTD.
8CA6DF (base 16) TP-LINK TECHNOLOGIES CO.,LTD.

Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

84-16-F9 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
8416F9 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

18-D6-C7 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
18D6C7 (base
16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

6C-D0-32 (hex) LG Electronics
6CD032 (base 16) LG Electronics
16, Woomyeon-dong, Seocho-gu
Seoul 137-724
KR

34-4D-F7 (hex) LG Electronics (Mobile Communications)
344DF7 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

58-3F-54 (hex) LG Electronics (Mobile Communications)
583F54 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

88-A6-C6 (hex) Sagemcom Broadband SAS
88A6C6 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

94-D4-69 (hex) Cisco Systems, Inc
94D469 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

9C-D3-32

(hex) PLC Technology Ltd
9CD332 (base 16) PLC Technology Ltd
Nauchny proezd, 17
Moscow Select State 117246
RU

74-A7-22 (hex) LG Electronics (Mobile Communications)
74A722 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

F0-1C-13 (hex) LG Electronics (Mobile Communications)
F01C13 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

A8-16-B2 (hex) LG Electronics (Mobile Communications)
A816B2 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

64-BC-0C (hex) LG Electronics (Mobile Communications)
64BC0C (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

64-89-9A (hex) LG Electronics (Mobile Communications)
64899A (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong,
Geumcheon-gu
Seoul 153-801
KR

F8-A9-D0 (hex) LG Electronics (Mobile Communications)
F8A9D0 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

CC-FA-00 (hex) LG Electronics (Mobile Communications)
CCFA00 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

00-1B-C5 (hex) IEEE Registration Authority
001BC5 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

48-DF-37 (hex) Hewlett Packard Enterprise
48DF37 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

00-00-31 (hex) QPSX COMMUNICATIONS, LTD.
000031 (base 16) QPSX COMMUNICATIONS, LTD.
33 RICHARDSON STREET
Western 00000
AU

00-0E-1E (hex) QLogic Corporation
000E1E (base 16) QLogic Corporation
26650 Aliso Viejo Parkway
Aliso Viejo CA 92656
US

E4-5D-75
(hex) Samsung Electronics Co.,Ltd
E45D75 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

90-C6-82 (hex) IEEE Registration Authority
90C682 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

00-50-56 (hex) VMware, Inc.
005056 (base 16) VMware, Inc.
3401 Hillview Avenue
PALO ALTO CA 94304
US

CC-52-AF (hex) Universal Global Scientific Industrial Co., Ltd.
CC52AF (base 16) Universal Global Scientific Industrial Co., Ltd.
141, LANE 351, TAIPING RD.
nan tou NAN-TOU 542

TW

C0-1A-DA (hex) Apple, Inc.
C01ADA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-12-1C (hex) PARROT SA
00121C (base 16) PARROT SA
174 Quai de Jemmapes
Paris 75010
FR

90-03-B7 (hex) PARROT SA
9003B7 (base 16) PARROT SA
174 Quai de Jemmapes
Paris 75010
FR

58-FC-DB (hex) IEEE Registration
Authority
58FCDB (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

B0-C5-CA (hex) IEEE Registration Authority
B0C5CA (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

74-19-F8 (hex) IEEE Registration Authority
7419F8 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

00-14-D1 (hex) TRENDnet, Inc.
0014D1 (base 16) TRENDnet, Inc.
20675 Manhattan Place
Torrance CA 90501
US

00-1C-14 (hex) VMware, Inc.
001C14 (base 16) VMware, Inc.
3401 Hillview Avenue

Palo Alto CA 94304
US

38-A2-8C (hex) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
38A28C (base 16) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
Bldg56A,6/F,Baotian Rd3,Xixiang Town,Baoan District,
Shenzhen Guangdong 518000
CN

A0-9E-1A (hex) Polar Electro Oy
A09E1A (base 16) Polar Electro Oy
Professorintie 5
Kempele Oulu 90440
FI

B4-A5-EF
(hex) Sercomm Corporation.
B4A5EF (base 16) Sercomm Corporation.
3F,No.81,Yu-Yih Rd.,Chu-Nan Chen
Miao-Lih Hsuan 115
TW

00-10-C1 (hex) OI ELECTRIC CO.,LTD
0010C1 (base 16) OI ELECTRIC CO.,LTD
7-3-16 KIKUNA
YOKOHAMA KANAGAWA-KEN 222-0011
JP

20-87-56 (hex) SIEMENS AG
208756 (base 16) SIEMENS AG
Oestliche Rheinbrueckenstrasse 50
Karlsruhe Baden-Württemberg 76187
DE

74-B4-72 (hex) CIESSE
74B472 (base 16) CIESSE
Via G. di Vittorio, 66
Rignano Sull'Arno Florence 50067
IT

FC-F1-52 (hex) Sony Corporation
FCF152 (base 16) Sony Corporation
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

30-9B-AD (hex) BBK EDUCATIONAL ELECTRONICS CORP.,LTD.
309BAD (base 16) BBK EDUCATIONAL ELECTRONICS CORP.,LTD.

LiWu INDUSTRIAL PARK,Wusha,Chang'an
Dong Guan Guang Dong 523860
CN

BC-30-7E (hex) Wistron Neweb Corporation
BC307E (base 16) Wistron Neweb Corporation
20
Park Avenue II.
Hsinchu 30808854
TW

BC-30-7D (hex) Wistron Neweb Corporation
BC307D (base 16) Wistron Neweb Corporation
20 Park Avenue II, Hsin Science Park, Hsinchu 308, Taiwan
HsinChu Taiwan 308
TW

48-A9-D2 (hex) Wistron Neweb Corporation
48A9D2 (base 16) Wistron Neweb Corporation
20 Park Avenue II, Hsin Science Park, Hsinchu 308, Taiwan
HsinChu Taiwan 308
TW

80-EA-23 (hex) Wistron Neweb Corporation
80EA23 (base 16) Wistron Neweb Corporation
20 Park Avenue II, Hsin Science Park, Hsinchu 308, Taiwan
HsinChu Taiwan 308
TW

48-3C-0C (hex) HUAWEI TECHNOLOGIES CO.,LTD
483C0C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-27-13 (hex) Universal Global Scientific Industrial Co., Ltd.
002713 (base 16) Universal Global Scientific Industrial Co., Ltd.
141, LANE 351,SEC.1, TAIPING RD.
TSAOTUEN,
NANTOU 54261
TW

00-80-F7 (hex) Zenith Electronics Corporation
0080F7 (base 16) Zenith Electronics Corporation
1000 MILWAUKEE AVENUE
GLENVIEW IL 60025
US

00-1B-B1 (hex) Wistron Neweb Corporation
001BB1 (base 16) Wistron Neweb Corporation
No. 10-1, Li-hsin Road I, Hsinchu Science Park,
Hsinchu 300
TW

68-B3-5E (hex) Shenzhen Neostra Technology Co.Ltd
68B35E (base 16) Shenzhen Neostra Technology Co.Ltd
7th Building,Huaide Cuihai Industrial Park,Fuyong,Shenzhen China
shenzhen 518100
CN

1C-D6-BD (hex) LEEDARSON LIGHTING CO., LTD.
1CD6BD (base 16) LEEDARSON LIGHTING CO., LTD.
No. 1511, 2nd Fanghu North Rd., Huli District
Xiamen Fugian 361010
CN

D0-D9-4F (hex) IEEE Registration Authority
D0D94F (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

84-9D-64 (hex) SMC Corporation
849D64 (base 16) SMC Corporation
4-2-2, Kinunodai
Tsukuba Mirai-shi
Ibaraki-ken 300-2493
JP

00-A0-C5 (hex) Zyxel Communications Corporation
00A0C5 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

50-65-83 (hex) Texas Instruments
506583 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

B0-91-22 (hex) Texas Instruments
B09122 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

FC-F5-28 (hex) Zyxel Communications Corporation
FCF528 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

FC-51-A4 (hex) ARRIS Group, Inc.
FC51A4 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

98-57-D3 (hex) HON HAI-CCPBG PRECISION IND.CO.,LTD.
9857D3 (base 16) HON HAI-CCPBG PRECISION IND.CO.,LTD.
5F, No.9,Li-Hsin Road V,Science Park
Hsinchu 300
TW

24-E2-71 (hex) Qingdao Hisense
Communications Co.,Ltd.
24E271 (base 16) Qingdao Hisense Communications Co.,Ltd.
Qianwangang Road 218
Qingdao Shandong 266510
CN

BC-60-10 (hex) Qingdao Hisense Communications Co.,Ltd.
BC6010 (base 16) Qingdao Hisense Communications Co.,Ltd.
Qianwangang Road 218
Qingdao Shandong 266510
CN

AC-04-81 (hex) Jiangsu Huaxing Electronics Co., Ltd.
AC0481 (base 16) Jiangsu Huaxing Electronics Co., Ltd.
the Industrial concentration zone, Zhiqian town,Jintan distric
Changzhou City Jiangsu Province 213234
CN

98-39-8E (hex) Samsung Electronics Co.,Ltd
98398E (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D0-FC-CC (hex) Samsung Electronics Co.,Ltd
D0FCCC (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350

KR

60-C0-BF (hex) ON Semiconductor
60C0BF (base 16) ON Semiconductor
5005 East McDowell Road
Phoenix AZ 85008
US

40-88-05
(hex) Motorola Mobility LLC, a Lenovo Company
408805 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

00-1E-04 (hex) Hanson Research Corporation
001E04 (base 16) Hanson Research Corporation
9810 Variel Ave.
Chatsworth CA 91311
US

44-D1-FA (hex) Shenzhen Yunlink Technology Co., Ltd
44D1FA (base 16) Shenzhen Yunlink Technology Co., Ltd
Gushu, Xixiang Town, Bao'an District,
Shenzhen City Guangdong Province 518100
CN

F0-F6-44 (hex) Whitesky Science & Technology Co.,Ltd.
F0F644 (base 16) Whitesky Science & Technology Co.,Ltd.
Room301,Building7,NO.6,Lane365
Shanghai 200052
CN

C4-1C-FF (hex) Vizio, Inc
C41CFF (base 16) Vizio, Inc
39 Tesla
Irvine CA 92618
US

7C-6A-F3 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
7C6AF3 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase
3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

C0-97-27 (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
C09727 (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)

93Moo5T. Bangsamak SEMTHAI, WELLGROW INDUSTRIAL ESTATE
Bangpakong Chachoengsao 24180
TH

E4-62-51 (hex) HAO CHENG GROUP LIMITED
E46251 (base 16) HAO CHENG GROUP LIMITED
FLAT/RM C, 06/F, BEST-TO-BEST COMMERCIAL CENTRE 32-36 FERRY STREET JORDAN KL
Hong KOng 999077
HK

38-76-D1 (hex) Euronda SpA
3876D1 (base 16) Euronda SpA
Via dell'artigianato, 7
Montecchio Precalcino Italia/Vicenza 36030
IT

DC-29-3A (hex) Shenzhen Nuoshi Technology Co., LTD.
DC293A (base 16) Shenzhen Nuoshi Technology Co., LTD.
Room 7020 of Tian Xia IC Industry Park, Majialong Industrial Zone, YiYuan Road
Nanshan District, Shenzhen Guangdong 518052
CN

40-56-2D (hex) Smartron India Pvt ltd
40562D (base 16) Smartron India Pvt ltd
1st Floor, Kapil Tower, Gachibowli
Hyderabad
Telangana 500032
IN

A0-D3-85 (hex) AUMA Riester GmbH & Co. KG
A0D385 (base 16) AUMA Riester GmbH & Co. KG
Aumastr. 1
Muellheim Baden-Württemberg 79379
DE

14-14-E6 (hex) Ningbo Sanhe Digital Co.,Ltd
1414E6 (base 16) Ningbo Sanhe Digital Co.,Ltd
No.1177 Lingyun Road
ningbo zhejiang 315048
CN

0C-51-01 (hex) Apple, Inc.
0C5101 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

2C-F0-A2 (hex) Apple, Inc.

2CF0A2 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

68-FB-7E (hex) Apple, Inc.
68FB7E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

84-A1-34 (hex) Apple, Inc.
84A134 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

20-F1-7C (hex) HUAWEI TECHNOLOGIES CO.,LTD
20F17C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan
523808
CN

34-6A-C2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
346AC2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

68-91-D0 (hex) IEEE Registration Authority
6891D0 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

90-4D-4A (hex) Sagemcom Broadband SAS
904D4A (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

04-4E-5A (hex) ARRIS Group, Inc.
044E5A (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

C4-69-3E (hex) Turbulence Design Inc.
C4693E (base 16) Turbulence Design Inc.
1-3-14
Koshigaya-City Saitama 343-0813
JP

00-95-69 (hex) LSD Science and Technology Co.,Ltd.
009569 (base 16) LSD Science and Technology Co.,Ltd.
Lierda Building,No.425 Dengyun Rd.
Hangzhou Zhijiang 310011
CN

B0-CF-4D
(hex) MI-Zone Technology Ireland
B0CF4D (base 16) MI-Zone Technology Ireland
2nd floor,block 10 unit 3
dublin Blanchardstown 15
IE

28-9A-FA (hex) TCT mobile ltd
289AFA (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

00-1A-34 (hex) Konka Group Co., Ltd.
001A34 (base 16) Konka Group Co., Ltd.
Shenzhen Konka R & D Building, 28th floor 15-24
Nanshan District Guangdong 00000
CN

00-11-FC (hex) HARTING Electronics GmbH
0011FC (base 16) HARTING Electronics GmbH
Wilhelm Harting Str. 1
Espelkamp Nordrhein Westfalen D-32339
DE

D8-20-9F (hex) Cubro Acronet GesmbH
D8209F (base 16) Cubro Acronet GesmbH
Geiselberstraße 17 / 6 Floor
Vienna Vienna 1110
AT

8C-77-16 (hex) LONGCHEER TELECOMMUNICATION LIMITED
8C7716 (base 16) LONGCHEER TELECOMMUNICATION LIMITED
Building 1,No.401,Caobao Rd
Shanghai Xuhui District

200233
CN

00-23-89 (hex) Hangzhou H3C Technologies Co., Limited
002389 (base 16) Hangzhou H3C Technologies Co., Limited
Oriental Electronics Bldg., #2, Chuangye RoadÃ‚Â£Ã‚Â¬Shangdi Information Industry Base,
Beijing 100085
US

3C-E5-A6 (hex) Hangzhou H3C Technologies Co., Limited
3CE5A6 (base 16) Hangzhou H3C Technologies Co., Limited
Oriental Electronic Bld., NO.2,Chuangye Road
Beijing 100085
CN

5C-DD-70 (hex) Hangzhou H3C Technologies Co., Limited
5CDD70 (base 16) Hangzhou H3C Technologies Co., Limited
310 Liuhe Road, Zhijiang Science Park
Hangzhou Zhejiang, 310053
CN

3C-8C-40 (hex) Hangzhou H3C Technologies Co., Limited
3C8C40 (base 16) Hangzhou H3C Technologies Co., Limited
466 Changhe Road, Binjiang District,
Hangzhou Zhejiang, P.R.China 310052
CN

E0-4F-43 (hex) Universal Global Scientific Industrial Co., Ltd.
E04F43 (base 16) Universal Global Scientific Industrial Co., Ltd.
141,
Lane 351, Taiping Road, Sec.1,Tsao Tuen
Nan-Tou Taiwan 54261
TW

38-70-0C (hex) ARRIS Group, Inc.
38700C (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

A0-67-BE (hex) Sicon srl
A067BE (base 16) Sicon srl
Via Sila 1/3
Isola Vicentina Vicenza 36033
IT

00-25-82 (hex) Maksat Technologies (P) Ltd
002582 (base 16) Maksat Technologies (P) Ltd

D-10/6, Okhla, Phase-I
New Delhi 110020
IN

6C-24-83 (hex) Microsoft Mobile Oy
6C2483 (base 16) Microsoft Mobile Oy
Keilalahdentie 4
Espoo 02150
FI

48-C0-49 (hex) Broad Telecom SA
48C049 (base 16) Broad Telecom SA
c/ Margarita Salas, 22
Leganes Madrid 28918
ES

AC-6F-BB (hex) TATUNG Technology Inc.
AC6FBB (base 16) TATUNG Technology Inc.
22, Chungshan N. Rd., 3rd Sec.,
Taipei 104
TW

00-1C-41 (hex) scemtec Transponder Technology GmbH
001C41 (base 16) scemtec Transponder
Technology GmbH
Wehrstr. 1
Gummersbach NRW 51645
DE

14-63-08 (hex) JABIL CIRCUIT (SHANGHAI) LTD.
146308 (base 16) JABIL CIRCUIT (SHANGHAI) LTD.
FL5-UNIT A2 NO. 1528 GUMEI ROAD
SHANGHAI 200233
CN

00-1E-25 (hex) INTEK DIGITAL
001E25 (base 16) INTEK DIGITAL
1101, 11th Fl., Anyang K-center building, 1591-9
Anyang Gyeonggi-do 431-815
KR

00-E0-CF (hex) INTEGRATED DEVICE
00E0CF (base 16) INTEGRATED DEVICE
6024 Silver Creek Valley Road
San Jose CA 95138
US

00-60-B1 (hex) Input/Output, Inc.

0060B1 (base 16) Input/Output, Inc.
12300 PARC CREST DRIVE
STAFFORD TX 77477-2416
US

54-7F-54 (hex) INGENICO
547F54 (base 16) INGENICO
9, avenue de la gare - BP 25156
Valence cedex 9 26958
FR

90-C7-D8 (hex) zte corporation
90C7D8 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

00-1C-D7 (hex) Harman/Becker
Automotive Systems GmbH
001CD7 (base 16) Harman/Becker Automotive Systems GmbH
Becker-Göring-Straße 16
Karlsbad Baden-Württemberg 76307
DE

00-3A-7D (hex) Cisco Systems, Inc
003A7D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1A-45 (hex) GN Netcom A/S
001A45 (base 16) GN Netcom A/S
Metalbuen 66
Ballerup Skovlunde DK - 2750
DK

00-20-88 (hex) GLOBAL VILLAGE COMMUNICATION
002088 (base 16) GLOBAL VILLAGE COMMUNICATION
1144 EAST ARQUES AVENUE
SUNNYVALE CA 94086
US

84-40-76 (hex) Drivenets
844076 (base 16) Drivenets
4 ashizaf
Raanana 4366411
IL

00-19-21 (hex) Elitegroup Computer Systems Co.,Ltd.
001921 (base 16) Elitegroup Computer Systems Co.,Ltd.
No.22,Alley 38,Lane 91, Sec. 1,Nei Hu Road.
Taipei 114
TW

00-16-EC (hex) Elitegroup Computer Systems Co.,Ltd.
0016EC (base 16) Elitegroup Computer Systems Co.,Ltd.
No.
22, Alley 38, Lane 91, Sec. 1, Nei Hu Road,
Taipei 11441
TW

00-07-95 (hex) Elitegroup Computer Systems Co.,Ltd.
000795 (base 16) Elitegroup Computer Systems Co.,Ltd.
No. 22, Alley 38, Lane 91,
Taipei 114
TW

54-13-79 (hex) Hon Hai Precision Ind. Co.,Ltd.
541379 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

00-0E-2E (hex) Edimax Technology Co. Ltd.
000E2E (base 16) Edimax Technology Co. Ltd.
No. 278, Xinhu 1st Road
Taipei City Neihu Dist 248
TW

00-06-5F (hex) ECI Telecom Ltd.
00065F (base 16) ECI Telecom Ltd.
30 Hasivim St.
hasivivm 53188
IL

00-20-8F (hex) ECI Telecom Ltd.
00208F (base 16) ECI Telecom Ltd.
HASIVIM ST. 30,
PETACH-TIKVA 49133 49133
IL

DC-9C-9F (hex) Shenzhen YOUHUA Technology Co., Ltd
DC9C9F (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town
Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055

CN

74-DF-BF (hex) Liteon Technology Corporation
74DFBF (base 16) Liteon Technology Corporation
7F, Bldg, C, 90, Chien 1 Road
Taipei Taiwan 23585
TW

84-AD-58 (hex) HUAWEI TECHNOLOGIES CO.,LTD
84AD58 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

58-60-5F (hex) HUAWEI TECHNOLOGIES CO.,LTD
58605F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D8-D7-23 (hex) IDS, Inc
D8D723 (base 16) IDS, Inc
6801 15 Mile Rd.
Sterling Heights MI 48312
US

F0-3E-90 (hex) Ruckus Wireless
F03E90 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

00-A0-F4 (hex) GE
00A0F4 (base 16) GE
W-657
WAUKESHA WI 53188
US

00-18-5C
(hex) EDSLAB Technologies
00185C (base 16) EDSLAB Technologies
20 Ayer Rajah Crescent
Crescent 139964
SG

FC-0F-4B (hex) Texas Instruments
FC0F4B (base 16) Texas Instruments
12500 TI Blvd

Dallas TX 75243
US

D4-88-3F (hex) HDPRO CO., LTD.
D4883F (base 16) HDPRO CO., LTD.
HDPRO Bldg. 23, 362 Beon-gil, Shinheung-ro, Ojeong-gu
Bucheon-City Gyunggi-Do 14491
KR

AC-0D-1B (hex) LG Electronics (Mobile Communications)
AC0D1B (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

F0-D1-B8 (hex) LEDVANCE
F0D1B8 (base 16) LEDVANCE
200 Ballardvale St
Wilmington MA 01887
US

98-6D-35 (hex) IEEE Registration Authority
986D35 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

88-79-5B (hex) Konka Group Co., Ltd.
88795B (base 16) Konka Group Co., Ltd.
Shenzhen Konka R & D Building, 28th
floor 15-24
Nanshan District Guangdong 00000
CN

08-1F-71 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
081F71 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

5C-CA-1A (hex) Microsoft Mobile Oy
5CCA1A (base 16) Microsoft Mobile Oy
Keilalahdentie 4
Espoo 02150
FI

60-B6-17 (hex) Fiberhome Telecommunication Technologies Co.,LTD
60B617 (base 16) Fiberhome Telecommunication Technologies Co.,LTD

No.5 DongXin Road
Wuhan City Hubei Province 430074
CN

18-A3-E8 (hex) Fiberhome Telecommunication Technologies Co.,LTD
18A3E8 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan City Hubei Province 430074
CN

74-1E-93 (hex) Fiberhome Telecommunication Technologies Co.,LTD
741E93 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin
Road
Wuhan City Hubei Province 430074
CN

FC-2F-AA (hex) Nokia
FC2FAA (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

B0-7E-70 (hex) Zadara Storage Ltd.
B07E70 (base 16) Zadara Storage Ltd.
6 Venture, Suite 140
Irvine CA 92618
US

00-80-B1 (hex) SOFTCOM A/S
0080B1 (base 16) SOFTCOM A/S
STUDIESTRAEDE 21

DK

20-2D-F8 (hex) Digital Media Cartridge Ltd.
202DF8 (base 16) Digital Media Cartridge Ltd.
5F-3, No. 9, Ln 3, Jihu Rd, Neihu
Taipei 11492
TW

10-D0-AB (hex) zte corporation
10D0AB (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

00-04-C6 (hex) YAMAHA MOTOR CO.,LTD

0004C6 (base 16) YAMAHA MOTOR CO.,LTD
Information System Division
Japan Zip: 438-8501
JP

20-2D-07 (hex) Samsung Electronics Co.,Ltd
202D07 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi
Gyeongbuk 730-350
KR

98-1F-B1 (hex) Shenzhen Lemon Network Technology Co.,Ltd
981FB1 (base 16) Shenzhen Lemon Network Technology Co.,Ltd
Changhong Technology Building 1710-11,South NO.12 Road,Nanshan Technology Park,Nanshan District,Shenzhen,China.
shenzhen 518100
CN

0C-5A-9E (hex) Wi-SUN Alliance
0C5A9E (base 16) Wi-SUN Alliance
275 Tennant Avenue, Suite 202
Morgan Hill CA 95037
US

E8-B2-AC (hex) Apple, Inc.
E8B2AC (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E4-9A-79 (hex) Apple, Inc.
E49A79 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B4-4B-D2 (hex) Apple, Inc.
B44BD2 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

DC-41-5F (hex) Apple, Inc.
DC415F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

64-12-25 (hex) Cisco Systems, Inc
641225 (base 16) Cisco Systems, Inc
170
West Tasman Drive
San Jose CA 95134
US

78-64-E6 (hex) Green Motive Technology Limited
7864E6 (base 16) Green Motive Technology Limited
Room 1106,11 FloorThe XinYuan Square, No 418 Gui ping Road
shanghai shanghai 20233
CN

3C-BE-E1 (hex) NIKON CORPORATION
3CBEE1 (base 16) NIKON CORPORATION
Shinagawa Intercity Tower C, 2-15-3, Konan
Minato-ku Tokyo 108-6290
JP

D8-80-3C (hex) Anhui Huami Information Technology Company Limited
D8803C (base 16) Anhui Huami Information Technology Company Limited
Building A4, 12th Floor, No. 800, Wangjiang Road
Hefei Anhui 230088
CN

00-34-DA (hex) LG Electronics (Mobile Communications)
0034DA (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

38-10-D5 (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
3810D5 (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin
Berlin 10559
DE

00-60-16 (hex) CLARIION
006016 (base 16) CLARIION
COSLIN DRIVE
SOUTHBORO MA 01772
US

00-C8-8B (hex) Cisco Systems, Inc
00C88B (base 16) Cisco Systems, Inc
80 West Tasman Drive

San Jose CA 94568
US

18-C5-01 (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
18C501 (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT
SONGGANG
SHENZHEN GUANGDONG 518105
CN

00-A0-B8 (hex) NetApp
00A0B8 (base 16) NetApp
1395 Crossman Ave
Sunnyvale, CA 94089
US

10-2A-B3 (hex) Xiaomi Communications Co Ltd
102AB3 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

40-D3-57 (hex) Ison Technology Co., Ltd.
40D357 (base 16) Ison Technology Co., Ltd.
Room 6, 20F, No. 77, section 1, Xintai 5th Rd. Xizhi District
New Taipei City Taiwan 22101
TW

A0-B9-ED (hex) Skytap
A0B9ED
(base 16) Skytap
710 2nd Ave Suite 1130
Seattle WA 98104
US

00-09-D2 (hex) Mai Logic Inc.
0009D2 (base 16) Mai Logic Inc.
47697 Westinghouse Dr., Suite 200
Fremont CA 94539
US

24-C3-F9 (hex) Securitas Direct AB
24C3F9 (base 16) Securitas Direct AB
Angbatsbron 1
Malmö 21120
SE

2C-21-D7 (hex) IMAX Corporation
2C21D7 (base 16) IMAX Corporation

2525 Speakman Drive
Mississauga Ontario L5K 1B1
CA

30-A9-DE (hex) LG Innotek
30A9DE (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

F0-1B-6C (hex) vivo Mobile Communication Co., Ltd.
F01B6C (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

20-76-8F (hex) Apple, Inc.
20768F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

9C-5C-F9 (hex) Sony Corporation
9C5CF9 (base 16) Sony Corporation
1-7-1
Konan Minato-ku
Tokyo 108-0075
JP

00-11-D1 (hex) Soft Imaging System GmbH
0011D1 (base 16) Soft Imaging System GmbH
Johann-Krane-Weg 39
Muenster 48149
DE

74-C3-30 (hex) SHENZHEN FAST TECHNOLOGIES CO.,LTD
74C330 (base 16) SHENZHEN FAST TECHNOLOGIES CO.,LTD
Room 202,Building No.5,Section 30,No.2 of Kefa Road,Nanshan District,Shenzhen,P.R.China
Shenzhen Guangdong 518057
CN

98-D6-86 (hex) Chyi Lee industry Co., ltd.
98D686 (base 16) Chyi Lee industry Co., ltd.
No.25, Wufu Rd., Xinying Dist.
Tainan city 73054
TW

8C-C6-61 (hex) Current, powered by GE

8CC661 (base 16) Current, powered by GE
1975 Noble Road B335C
East Cleveland OH 44112
US

88-A0-84 (hex) Formation Data Systems
88A084 (base 16) Formation Data Systems
39141 Civic Center Drive, Suite 410
Fremont CA 94538
US

94-C9-60 (hex) Zhongshan B&T technology.co.,ltd
94C960 (base 16) Zhongshan B&T technology.co.,ltd
Floor3-4,Block
A,Dong Fang Industrial park,Da che country,Nan Lang District
Zhong Shan City Guang Dong Province 528451
CN

A4-15-88 (hex) ARRIS Group, Inc.
A41588 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

F4-5C-89 (hex) Apple, Inc.
F45C89 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

DC-B3-B4 (hex) Honeywell Environmental & Combustion Controls (Tianjin) Co., Ltd.
DCB3B4 (base 16) Honeywell Environmental & Combustion Controls (Tianjin) Co., Ltd.
158 Nan Hai Road, TEDA
Tianjin 300457
CN

00-24-7C (hex) Nokia Danmark A/S
00247C (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

4C-25-78 (hex) Nokia Corporation
4C2578 (base 16) Nokia Corporation
Joensuunkatu 7
Salo NA 24101
FI

BC-C6-DB (hex) Nokia Corporation
BCC6DB (base 16) Nokia Corporation
Joensuunkatu 7
Salo NA 24101
FI

60-A8-FE
(hex) Nokia Solutions and Networks GmbH & Co. KG
60A8FE (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

00-1F-DE (hex) Nokia Danmark A/S
001FDE (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-1F-DF (hex) Nokia Danmark A/S
001FDF (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

54-79-75 (hex) Nokia Corporation
547975 (base 16) Nokia Corporation
Joensuunkatu 7E
Salo 24101
FI

A8-7B-39 (hex) Nokia Corporation
A87B39 (base 16) Nokia Corporation
Joensuunkatu 7
Salo Varsinais-Suomi 24101
FI

00-1D-3B (hex) Nokia Danmark A/S
001D3B (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-1D-FD (hex) Nokia Danmark A/S
001DFD (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-1E-3B (hex) Nokia Danmark
A/S
001E3B (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-1E-A4 (hex) Nokia Danmark A/S
001EA4 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-26-CC (hex) Nokia Danmark A/S
0026CC (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-0E-ED (hex) Nokia Danmark A/S
000EED (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-11-9F (hex) Nokia Danmark A/S
00119F (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-1A-16 (hex) Nokia Danmark A/S
001A16 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-1A-89 (hex) Nokia Danmark A/S
001A89 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-1A-DC (hex) Nokia Danmark A/S
001ADC (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790

DK

00-25-CF
(hex) Nokia Danmark A/S
0025CF (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-21-AB (hex) Nokia Danmark A/S
0021AB (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-22-66 (hex) Nokia Danmark A/S
002266 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-21-FE (hex) Nokia Danmark A/S
0021FE (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790V
DK

C4-77-AB (hex) Beijing ASU Tech Co.,Ltd
C477AB (base 16) Beijing ASU Tech Co.,Ltd
15/F, Global Trade Center Tower, No.36, North 3rd Ring Road, Dongcheng District, Beijing, 100013, China
BEI JING BEI JING 100013
CN

30-0D-43 (hex) Microsoft Mobile Oy
300D43 (base 16) Microsoft Mobile Oy
Keilalahdentie 2-4
Espoo N.A. 02150
FI

60-7E-DD (hex) Microsoft Mobile Oy
607EDD (base 16) Microsoft Mobile Oy
Keilalahdentie 4
ESPOO
02150
FI

A8-A0-89 (hex) Tactical Communications
A8A089 (base 16) Tactical Communications

473 Post Street
Camarillo CA 93010
US

48-36-5F (hex) Wintecronics Ltd.
48365F (base 16) Wintecronics Ltd.
Rm. 3, 11F., No.716, Zhongzheng Rd., Zhonghe Dist., New Taipei City 23552, Taiwan (R.O.C.)
New Taipei City 23552
TW

00-0B-CA (hex) DATAVAN TC
000BCA (base 16) DATAVAN TC
4FL,#120-12,Chung Shan Rd, Sec.3
Chung Ho City, Taipei Hsien 235
TW

70-25-59 (hex) CyberTAN Technology Inc.
702559 (base 16) CyberTAN Technology Inc.
99, Park Avenue III, Science-Based Industrial Park
Hsinchu 308
TW

00-1D-20 (hex) Comtrend Corporation
001D20 (base 16) Comtrend Corporation
3F-1, 10 Lane 609, Chongxin Road, Section 5,
New Taipei City, Taiwan 24159
TW

38-94-96 (hex) Samsung Electronics Co.,Ltd
389496 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk
730-350
KR

50-56-BF (hex) Samsung Electronics Co.,Ltd
5056BF (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

90-F1-AA (hex) Samsung Electronics Co.,Ltd
90F1AA (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

10-77-B1 (hex) Samsung Electronics Co.,Ltd

1077B1 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

00-1F-C7 (hex) Casio Hitachi Mobile Communications Co., Ltd.
001FC7 (base 16) Casio Hitachi Mobile Communications Co., Ltd.
2-229-1, Sakuragaoka
Higashiyamato-shi Tokyo 207-8501
JP

00-00-0E (hex) FUJITSU LIMITED
00000E (base 16) FUJITSU LIMITED
403, Kosugi-cho 1-chome, Nakahara-ku
Kawasaki Kanagawa 211-0063
JP

00-0B-5D (hex) FUJITSU LIMITED
000B5D (base 16) FUJITSU LIMITED
403, Kosugi-cho 1-chome, Nakahara-ku
Kawasaki
Kanagawa 211-0063
JP

08-05-81 (hex) Roku, Inc.
080581 (base 16) Roku, Inc.
12980 Saratoga Ave
Saratoga CA 95070
US

74-45-8A (hex) Samsung Electronics Co.,Ltd
74458A (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

FC-C7-34 (hex) Samsung Electronics Co.,Ltd
FCC734 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

84-25-DB (hex) Samsung Electronics Co.,Ltd
8425DB (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B0-EC-71 (hex) Samsung Electronics Co.,Ltd
B0EC71 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E4-58-B8 (hex) Samsung Electronics Co.,Ltd
E458B8 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

08-8C-2C (hex) Samsung Electronics Co.,Ltd
088C2C (base 16) Samsung Electronics
Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A4-9A-58 (hex) Samsung Electronics Co.,Ltd
A49A58 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

08-EE-8B (hex) Samsung Electronics Co.,Ltd
08EE8B (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

64-B8-53 (hex) Samsung Electronics Co.,Ltd
64B853 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

08-37-3D (hex) Samsung Electronics Co.,Ltd
08373D (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C4-88-E5 (hex) Samsung Electronics Co.,Ltd
C488E5 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

0C-75-BD (hex) Cisco Systems, Inc
0C75BD (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0D-F3 (hex) Asmax
Solutions
000DF3 (base 16) Asmax Solutions
Tatarska 5
Cracow 30-103
PL

00-0D-B6 (hex) Broadcom
000DB6 (base 16) Broadcom
1363 Redwood Way
Petaluma CA 94954
US

00-0A-F7 (hex) Broadcom
000AF7 (base 16) Broadcom
16215 Alton Parkway
Irvine CA 92618
US

D4-01-29 (hex) Broadcom
D40129 (base 16) Broadcom
5300 California Ave.
Irvine CA 92617
US

00-1D-00 (hex) Brivo Systems, LLC
001D00 (base 16) Brivo Systems, LLC
4330 East West Highway
Bethesda MD 20814
US

00-20-D6 (hex) Breezecom, Ltd.
0020D6 (base 16) Breezecom, Ltd.
ATIDIM TECHNOLOGICAL PK-BLDG.3
Tel-aviv 12345
IL

C4-47-3F (hex) HUAWEI TECHNOLOGIES CO.,LTD
C4473F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

5C-DC-96 (hex) Arcadyan Technology Corporation
5CDC96 (base 16) Arcadyan Technology Corporation
No.8,
Sec.2, Guangfu Rd.,
Hsinchu City 30071, 12345
TW

00-1A-2A (hex) Arcadyan Technology Corporation
001A2A (base 16) Arcadyan Technology Corporation
4F., No. 9 , Park Avenue II,
Hsinchu 300
TW

88-25-2C (hex) Arcadyan Technology Corporation
88252C (base 16) Arcadyan Technology Corporation
4F., NO.9, Park Avenue II ,
Hsinchu 300
TW

1C-C6-3C (hex) Arcadyan Technology Corporation
1CC63C (base 16) Arcadyan Technology Corporation
4F, No. 9, Park Avenue II ,
Hsinchu 300
TW

18-83-BF (hex) Arcadyan Technology Corporation
1883BF (base 16) Arcadyan Technology Corporation
4F, No. 9, Park Avenue II ,
Hsinchu 300
TW

68-ED-43 (hex) BlackBerry RTS
68ED43 (base 16) BlackBerry RTS
451 Phillip Street
Waterloo ON N2L 3X2
CA

70-AA-B2 (hex) BlackBerry RTS
70AAB2 (base 16) BlackBerry RTS
451 Phillip Street
Waterloo ON N2L 3X2
CA

00-E0-63 (hex) Cabletron
Systems, Inc.
00E063 (base 16) Cabletron Systems, Inc.

35 INDUSTRIAL WAY
ROCHESTER NH 03866-5005
US

9C-C7-A6 (hex) AVM GmbH
9CC7A6 (base 16) AVM GmbH
Alt-Moabit 95
berlin Berlin 10559
DE

A0-63-91 (hex) NETGEAR
A06391 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

20-E5-2A (hex) NETGEAR
20E52A (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

44-94-FC (hex) NETGEAR
4494FC (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

E0-91-F5 (hex) NETGEAR
E091F5 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

00-14-6C (hex) NETGEAR
00146C (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

00-1E-2A (hex) NETGEAR
001E2A (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

00-18-4D (hex) NETGEAR
00184D (base 16) NETGEAR

350
East Plumeria Drive
San Jose CA 95134
US

0C-A4-2A (hex) OB Telecom Electronic Technology Co., Ltd
0CA42A (base 16) OB Telecom Electronic Technology Co., Ltd
17/F, Jiangong Building
Hangzhou ZheJiang 310012
CN

20-0C-C8 (hex) NETGEAR
200CC8 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

74-44-01 (hex) NETGEAR
744401 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

00-0F-86 (hex) BlackBerry RTS
000F86 (base 16) BlackBerry RTS
295 Phillip Street
Waterloo Ontario N2L 3W8
CA

E8-39-DF (hex) ASKEY COMPUTER CORP
E839DF (base 16) ASKEY COMPUTER CORP
10F,NO.119,CHIENKANG RD,CHUNG-HO,TAIPEI,
TAIWAN TAIPEI 235
TW

00-24-D2 (hex) ASKEY COMPUTER CORP
0024D2 (base 16) ASKEY COMPUTER CORP
10F,NO.119,CHIENKANG RD,CHUNG-HO,TAIPEI,
TAIWAN TAIPEI 235
TW

B4-EE-B4 (hex) ASKEY COMPUTER CORP
B4EEB4 (base 16) ASKEY COMPUTER CORP
10F,NO.119,CHIENKANG
RD,ZHONGHE DIST NEW TAIPEI CITY
TAIWAN TAIPEI 23585
TW

00-04-0E (hex) AVM GmbH
00040E (base 16) AVM GmbH
Alt-Moabit 95
berlin 12345
DE

40-BA-61 (hex) ARIMA Communications Corp.
40BA61 (base 16) ARIMA Communications Corp.
6F., No.866, Jhongjheng Rd., Jhonghe Dist.
New Taipei City 23586
TW

00-11-F5 (hex) ASKEY COMPUTER CORP
0011F5 (base 16) ASKEY COMPUTER CORP
10F, NO.119, CHIENKANG RD.,
CHUNG-HO, TAIPEI 235
TW

00-16-E3 (hex) ASKEY COMPUTER CORP
0016E3 (base 16) ASKEY COMPUTER CORP
10F, NO.119, CHIENKANG RD.,
CHUNG-HO, TAIPEI 235
TW

00-13-11 (hex) ARRIS Group, Inc.
001311 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

74-56-12 (hex) ARRIS Group, Inc.
745612 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

E4-64-49 (hex) ARRIS Group, Inc.
E46449 (base 16) ARRIS
Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

40-FC-89 (hex) ARRIS Group, Inc.
40FC89 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

2C-9E-5F (hex) ARRIS Group, Inc.
2C9E5F (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1E-5A (hex) ARRIS Group, Inc.
001E5A (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-13-71 (hex) ARRIS Group, Inc.
001371 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-19-A6 (hex) ARRIS Group, Inc.
0019A6 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-23-EE (hex) ARRIS Group, Inc.
0023EE (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1A-DE (hex) ARRIS Group, Inc.
001ADE (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1C-C1
(hex) ARRIS Group, Inc.
001CC1 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-50-E3 (hex) ARRIS Group, Inc.
0050E3 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121

US

7C-BF-B1 (hex) ARRIS Group, Inc.
7CBFB1 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-26-36 (hex) ARRIS Group, Inc.
002636 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-21-36 (hex) ARRIS Group, Inc.
002136 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-16-26 (hex) ARRIS Group, Inc.
001626 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

E8-F7-24 (hex) Hewlett Packard Enterprise
E8F724 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

E8-74-E6 (hex) ADB Broadband Italia
E874E6
(base 16) ADB Broadband Italia
VIALE SARCA 336
MILANO 20126
IT

00-20-E0 (hex) Actiontec Electronics, Inc
0020E0 (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

00-26-62 (hex) Actiontec Electronics, Inc
002662 (base 16) Actiontec Electronics, Inc
3301 Olcott St.

Santa Clara CA 95054
US

28-0D-FC (hex) Sony Interactive Entertainment Inc.
280DFC (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

70-1A-04 (hex) Liteon Technology Corporation
701A04 (base 16) Liteon Technology Corporation
4F 90 Chien 1 Rd.ChungHo
Taipei 23585
TW

48-D2-24 (hex) Liteon Technology Corporation
48D224 (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road,ChungHo
New Taipei City Taipei 23585
TW

20-68-9D (hex) Liteon Technology Corporation
20689D (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road,ChungHo
New
Taipei City Taipei 23585
TW

D0-DF-9A (hex) Liteon Technology Corporation
D0DF9A (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road,ChungHo,Taipei Hsien,Taiwan,
TaiPei TaiWan 23585
TW

1C-65-9D (hex) Liteon Technology Corporation
1C659D (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road,ChungHo,Taipei Hsien,Taiwan,
TaiPei TaiWan 23585
TW

30-10-B3 (hex) Liteon Technology Corporation
3010B3 (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road, ChungHo, TaiPei Hsien
TaiPei TaiWan 23585
TW

E8-C7-4F (hex) Liteon Technology Corporation
E8C74F (base 16) Liteon Technology Corporation

4F, No. 90, Chien 1 Road,
New Taipei City Taiwan 23585
TW

D0-53-49 (hex) Liteon Technology Corporation
D05349 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road ChungHo
New Taipei City Taiwan 23585
TW

94-88-15 (hex) Infinique Worldwide Inc
948815
(base 16) Infinique Worldwide Inc
513, 4185 Shipp Drive
Mississauga Ontario L4Z2Y8
CA

D0-E4-4A (hex) Murata Manufacturing Co., Ltd.
D0E44A (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

58-17-0C (hex) Sony Corporation
58170C (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

5C-B5-24 (hex) Sony Corporation
5CB524 (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

90-C1-15 (hex) Sony Corporation
90C115 (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

D0-51-62 (hex) Sony Corporation
D05162 (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

18-00-2D (hex) Sony Corporation

18002D (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

00-16-B8
(hex) Sony Corporation
0016B8 (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

00-24-EF (hex) Sony Corporation
0024EF (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

00-25-E7 (hex) Sony Corporation
0025E7 (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

00-25-53 (hex) ADB Broadband Italia
002553 (base 16) ADB Broadband Italia
VIALE SARCA 222
MILANO 20126
IT

00-19-3E (hex) ADB Broadband Italia
00193E (base 16) ADB Broadband Italia
VIALE SARCA 222
MILANO 20126
IT

00-08-27 (hex) ADB Broadband Italia
000827 (base 16) ADB Broadband Italia
Viale Sarca 222
pisacataway Milano 20126
IT

08-00-46 (hex) Sony Corporation
080046 (base 16) Sony Corporation
Gotenyama Tec, 5-1-2 Kitashinagawa
Tokyo 141-0001
JP

74-DA-EA (hex) Texas
Instruments
74DAEA (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

D8-87-D5 (hex) Leadcore Technology CO.,LTD
D887D5 (base 16) Leadcore Technology CO.,LTD
1258 Mingyue Road,Shanghai.China
shanghai shanghai 201206
CN

00-F2-8B (hex) Cisco Systems, Inc
00F28B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

4C-14-A3 (hex) TCL Technoly Electronics (Huizhou) Co., Ltd.
4C14A3 (base 16) TCL Technoly Electronics (Huizhou) Co., Ltd.
19th Zhongkai Hi-tech Development Zone
Huizhou Guangdong 516006
CN

EC-F0-0E (hex) AboCom
ECF00E (base 16) AboCom
1F , No. 21, Yanfa 2nd Rd., SBIP
Hsinchu City 300 886
TW

00-E0-98 (hex) AboCom
00E098 (base 16) AboCom
12F-3, NO. 333, SEC. 1
HSIN-CHU 12345
TW

4C-B0-E8 (hex) Beijing RongZhi xinghua technology co., LTD
4CB0E8 (base 16) Beijing RongZhi xinghua technology co., LTD
Beijing
haidian district zhongguancun east road No. 18 smartfortune international building, room 909
beijing beijing 100000
CN

9C-4E-36 (hex) Intel Corporate
9C4E36 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000

MY

34-13-E8 (hex) Intel Corporate
3413E8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

34-E6-AD (hex) Intel Corporate
34E6AD (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

08-11-96 (hex) Intel Corporate
081196 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

74-2F-68 (hex) AzureWave Technology Inc.
742F68 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd., Xindian
Taipei 231
TW

38-4F-F0 (hex) AzureWave Technology Inc.
384FF0 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd
. New Taipei City Taiwan 231
TW

B4-B6-76
(hex) Intel Corporate
B4B676 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

3C-A9-F4 (hex) Intel Corporate
3CA9F4 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B8-8A-60 (hex) Intel Corporate
B88A60 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3

Kulim Kedah 09000
MY

78-FF-57 (hex) Intel Corporate
78FF57 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

A4-8E-0A (hex) DeLaval International AB
A48E0A (base 16) DeLaval International AB
Gustaf De Lavals väg 15
TUMBA 14721
SE

AC-2B-6E (hex) Intel Corporate
AC2B6E (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

F8-E0-79 (hex) Motorola Mobility LLC, a Lenovo Company
F8E079 (base 16) Motorola Mobility LLC, a Lenovo Company
600 North US Highway 45
Libertyville IL 60048
US

CC-C3-EA
(hex) Motorola Mobility LLC, a Lenovo Company
CCC3EA (base 16) Motorola Mobility LLC, a Lenovo Company
600 North US Highway 45
Libertyville IL 60048
US

40-78-6A (hex) Motorola Mobility LLC, a Lenovo Company
40786A (base 16) Motorola Mobility LLC, a Lenovo Company
222 Merchandise Mart Plaza, Suite 1800
Chicago IL 60654
US

00-0A-8A (hex) Cisco Systems, Inc
000A8A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

9C-35-83 (hex) Nipro Diagnostics, Inc
9C3583 (base 16) Nipro Diagnostics, Inc

2400 N.W. 55th Court.
Ft. Lauderdale FL 33309
US

C0-61-18 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
C06118 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

00-23-14 (hex) Intel Corporate
002314 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3

Kulim Kedah 09000
MY

34-02-86 (hex) Intel Corporate
340286 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-1C-BF (hex) Intel Corporate
001CBF (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

34-DE-1A (hex) Intel Corporate
34DE1A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

E8-B1-FC (hex) Intel Corporate
E8B1FC (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D0-22-12 (hex) IEEE Registration Authority
D02212 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

10-07-23 (hex) IEEE Registration Authority

100723 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

A4-4F-29 (hex) IEEE Registration Authority
A44F29 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

74-F8-DB
(hex) IEEE Registration Authority
74F8DB (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

CC-3D-82 (hex) Intel Corporate
CC3D82 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-1F-3C (hex) Intel Corporate
001F3C (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-23-15 (hex) Intel Corporate
002315 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-16-6F (hex) Intel Corporate
00166F (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-19-D1 (hex) Intel Corporate
0019D1 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-19-D2 (hex) Intel Corporate
0019D2 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-1B-21 (hex) Intel Corporate
001B21
(base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

18-FF-0F (hex) Intel Corporate
18FF0F (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

18-3D-A2 (hex) Intel Corporate
183DA2 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

80-9B-20 (hex) Intel Corporate
809B20 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-27-10 (hex) Intel Corporate
002710 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C0-83-0A (hex) 2Wire Inc
C0830A (base 16) 2Wire Inc
1764 Automation Pkwy
San Jose CA 95131
US

38-3B-C8 (hex) 2Wire Inc
383BC8 (base 16) 2Wire Inc
1764 Automation Parkway
San Jose 95131
US

60-FE-20 (hex) 2Wire Inc
60FE20 (base 16) 2Wire Inc
1764 Automation ParkWay
San Jose CA 95131
US

00-18-3F
(hex) 2Wire Inc
00183F (base 16) 2Wire Inc
1704 Automation Parkway
San Jose CA 94538
US

00-24-56 (hex) 2Wire Inc
002456 (base 16) 2Wire Inc
1764 Automation Parkway
San Jose CA 95131
US

18-01-E3 (hex) Bittium Wireless Ltd
1801E3 (base 16) Bittium Wireless Ltd
Tutkijantie 8
Oulu 50590
FI

18-62-2C (hex) Sagemcom Broadband SAS
18622C (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
RUEIL MALMAISON CEDEX Hauts de Seine 92848
FR

3C-81-D8 (hex) Sagemcom Broadband SAS
3C81D8 (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
RUEIL MALMAISON CEDEX Hauts de Seine 92848
FR

40-F2-01 (hex) Sagemcom Broadband SAS
40F201 (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
Rueil Malmaison HAUTS DE SEINE 92848
FR

D0-84-B0 (hex) Sagemcom Broadband SAS
D084B0 (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
Rueil Malmaison HAUTS

DE SEINE 92848
FR

18-1E-78 (hex) Sagemcom Broadband SAS
181E78 (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
Rueil Malmaison HAUTS DE SEINE 92848
FR

00-37-B7 (hex) Sagemcom Broadband SAS
0037B7 (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
Rueil Malmaison HAUTS DE SEINE 92848
FR

00-54-BD (hex) Swelaser AB
0054BD (base 16) Swelaser AB
Tullgårdsgatan 8
Stockholm 11668
SE

00-1E-4C (hex) Hon Hai Precision Ind. Co.,Ltd.
001E4C (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

D8-54-3A (hex) Texas Instruments
D8543A (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

64-9C-8E (hex) Texas Instruments
649C8E (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

10-2E-AF (hex) Texas Instruments
102EAF (base 16) Texas
Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

7C-8E-E4 (hex) Texas Instruments
7C8EE4 (base 16) Texas Instruments

12500 TI Boulevard, MS 8723
Dallas TX 75243
US

B4-EE-D4 (hex) Texas Instruments
B4EED4 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

14-91-82 (hex) Belkin International Inc.
149182 (base 16) Belkin International Inc.
12045 E. Waterfront Drive
Playa Vista CA 90094
US

20-BB-76 (hex) COL GIOVANNI PAOLO SpA
20BB76 (base 16) COL GIOVANNI PAOLO SpA
Via F.lli Ceirano n. 20
Moncalieri TORINO 10024
IT

3C-DD-89 (hex) SOMO HOLDINGS & TECH. CO.,LTD.
3CDD89 (base 16) SOMO HOLDINGS & TECH. CO.,LTD.
6, Mujeonggonddan-Gil
Damyang-Gun Jellanam-Do 57360
KR

38-86-02 (hex) Flexoptix GmbH
388602 (base 16) Flexoptix GmbH
Muehltalstr. 153
Darmstadt 64297
DE

40-65-A3 (hex) Sagemcom Broadband SAS
4065A3
(base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

00-19-4B (hex) Sagemcom Broadband SAS
00194B (base 16) Sagemcom Broadband SAS
Le Ponnant de Paris
CEDEX Paris 75512
FR

00-1E-74 (hex) Sagemcom Broadband SAS

001E74 (base 16) Sagemcom Broadband SAS
Le Ponnant de Paris
CEDEX Paris 75512
FR

A4-3B-FA (hex) IEEE Registration Authority
A43BFA (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

3C-2D-B7 (hex) Texas Instruments
3C2DB7 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

D0-37-61 (hex) Texas Instruments
D03761 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

C8-3E-99 (hex) Texas Instruments
C83E99 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

40-98-4E (hex) Texas Instruments
40984E
(base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

00-17-EB (hex) Texas Instruments
0017EB (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

00-17-E6 (hex) Texas Instruments
0017E6 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

54-64-D9 (hex) Sagemcom Broadband SAS
5464D9 (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
RUEIL MALMAISON CEDEX Hauts de Seine 92848
FR

00-18-32 (hex) Texas Instruments
001832 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

24-DA-11 (hex) NO NDA Inc
24DA11 (base 16) NO NDA Inc
828 Bryant St
Palo Alto IA 94301
US

9C-8E-99 (hex) Hewlett Packard
9C8E99 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

EC-22-80 (hex) D-Link International
EC2280 (base 16) D-Link
International
1 Internal Business Park, #03-12,
SINGAPORE Singapore 609917
SG

F4-F5-D8 (hex) Google, Inc.
F4F5D8 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

C4-ED-BA (hex) Texas Instruments
C4EDBA (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

90-59-AF (hex) Texas Instruments
9059AF (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

BC-6A-29 (hex) Texas Instruments
BC6A29 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

84-7E-40 (hex) Texas Instruments
847E40 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

00-19-5B (hex) D-Link Corporation
00195B (base 16) D-Link Corporation
NO.289, Sinhu 3rd Rd.,
Neihu District, Taipei City 114
TW

00-0F-3D (hex) D-Link Corporation
000F3D (base 16) D-Link
Corporation
No.8,Li-shing Seventh Road,Science-based Industrial Park,Hsimchu,
Hsimchu 300
TW

B0-C0-90 (hex) Chicony Electronics Co., Ltd.
B0C090 (base 16) Chicony Electronics Co., Ltd.
No.25, Wugong 6th Rd., Wugu Dist.,
New Taipei City 248, TAIWAN, REPUBLIC OF CHINA 248
TW

AC-06-C7 (hex) ServerNet S.r.l.
AC06C7 (base 16) ServerNet S.r.l.
Località Padriciano 99
Trieste Trieste 34149
IT

00-59-AC (hex) KPN. B.V.
0059AC (base 16) KPN. B.V.
Maanplein 55
Den Haag Zuid holland 2516 CK
NL

00-17-35 (hex) Intel Wireless Network Group
001735 (base 16) Intel Wireless Network Group
2111 NE 25th Ave
Hillsboro OR 97124

US

74-AC-5F (hex) Qiku Internet Network Scientific (Shenzhen) Co., Ltd.
74AC5F (base 16) Qiku Internet Network Scientific (Shenzhen) Co., Ltd.
Cyber Harbor, 2nd Mengxi Road, Hi-Tech Industrial Park (North), NanShan District
ShenZhen GuangDong 518000
CN

38-CA-DA
(hex) Apple, Inc.
38CADA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

78-8B-77 (hex) Standar Telecom
788B77 (base 16) Standar Telecom
Sadovnicheskaya 44 s.4
Moscow 115035
RU

18-AF-61 (hex) Apple, Inc.
18AF61 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

5C-F9-38 (hex) Apple, Inc.
5CF938 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

0C-05-35 (hex) Juniper Systems
0C0535 (base 16) Juniper Systems
1132 W. 1700 N.
Logan UT 84321
US

BC-83-A7 (hex) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
BC83A7 (base 16) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
Unit A 13-16/F,Skyworth Bldg., Gaoxin Ave.1.S.,Nanshan District
Shenzhen GuangDong 518057
CN

BC-EC-23 (hex) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
BCEC23 (base 16) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
Unit A13-16/F,Skyworth Bldg., Gaoxin

Ave.1.S.,Nanshan District,Shenzhen,China
ShenZhen GuangDong 518057
CN

D0-B3-3F (hex) Shenzhen TINNO Mobile Technology Corp.
D0B33F (base 16) Shenzhen TINNO Mobile Technology Corp.
4/F.,H-3 Building,OCT Eastern lndustrial Park. NO.1 XiangShan East Road.,
GUANGDONG SHENZHEN 518053
CN

BC-D1-D3 (hex) Shenzhen TINNO Mobile Technology Corp.
BCD1D3 (base 16) Shenzhen TINNO Mobile Technology Corp.
4/F.,H-3 Building,OCT Eastern lndustrial Park.
Nanshan, Shenzhen GUANGDONG 518053
CN

D8-3C-69 (hex) Shenzhen TINNO Mobile Technology Corp.
D83C69 (base 16) Shenzhen TINNO Mobile Technology Corp.
4/F.,H-3 Building,OCT Eastern lndustrial Park. NO.1 XiangShan East Road
SHENZHEN GUANGDONG 518053
CN

40-D8-55 (hex) IEEE Registration Authority
40D855 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

34-AB-37 (hex) Apple, Inc.
34AB37 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

24-00-BA (hex) HUAWEI TECHNOLOGIES CO.,LTD
2400BA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan Guangdong 523808
CN

24-DF-6A (hex) HUAWEI TECHNOLOGIES CO.,LTD
24DF6A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan Guangdong 523808
CN

8C-57-9B (hex) Wistron Neweb Corporation

8C579B (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

10-1F-74 (hex) Hewlett Packard
101F74 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

00-9C-02 (hex) Hewlett Packard
009C02 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

00-19-BB (hex) Hewlett Packard
0019BB (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

DC-FB-02
(hex) BUFFALO.INC
DCFB02 (base 16) BUFFALO.INC
AKAMONDORI Bldg.,30-20,Ohsu 3-chome
Naka-ku,Nagoya Aichi Pref 460-8315
JP

88-57-EE (hex) BUFFALO.INC
8857EE (base 16) BUFFALO.INC
AKAMONDORI Bld.,30-20,Ohsu 3-chome,Naka-ku
Nagoya Aichi Pref. 460-8315
JP

90-7F-61 (hex) Chicony Electronics Co., Ltd.
907F61 (base 16) Chicony Electronics Co., Ltd.
No.25, Wu-Gong 6th Rd., Wu Ku Industrial Park,
New Taipei City, 248
TW

00-1D-CD (hex) ARRIS Group, Inc.
001DCD (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1D-D2 (hex) ARRIS Group, Inc.
001DD2 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

E8-3E-FC (hex) ARRIS Group, Inc.
E83EFC (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1F-29 (hex) Hewlett Packard
001F29 (base 16) Hewlett Packard
20555 State Highway 249
Houston
TX 77070
US

00-21-5A (hex) Hewlett Packard
00215A (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-23-7D (hex) Hewlett Packard
00237D (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-26-55 (hex) Hewlett Packard
002655 (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-0D-9D (hex) Hewlett Packard
000D9D (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

E8-ED-05 (hex) ARRIS Group, Inc.
E8ED05 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

78-96-84 (hex) ARRIS Group, Inc.
789684 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

CC-65-AD (hex) ARRIS Group, Inc.
CC65AD (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-20-7B (hex) Intel Corporation
00207B (base 16) Intel
Corporation
2111 NE 25th Avenue
Hillsboro OR 97124
US

00-11-75 (hex) Intel Corporation
001175 (base 16) Intel Corporation
5200 NE ELAM YOUNG PARKWAY
HIllsboro OR 97124
US

78-0C-B8 (hex) Intel Corporate
780CB8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

18-5E-0F (hex) Intel Corporate
185E0F (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

90-0D-CB (hex) ARRIS Group, Inc.
900DCB (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

8C-09-F4 (hex) ARRIS Group, Inc.
8C09F4 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121

US

94-09-37 (hex) HUMAX Co., Ltd.
940937 (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bundang-gu,
Seongnam-si Gyeonggi-do 463-875
KR

E8-4D-D0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E84DD0 (base 16) HUAWEI TECHNOLOGIES
CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

0C-45-BA (hex) HUAWEI TECHNOLOGIES CO.,LTD
0C45BA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

20-90-6F (hex) Shenzhen Tencent Computer System Co., Ltd.
20906F (base 16) Shenzhen Tencent Computer System Co., Ltd.
5-10 Building High-tech Zone, Nanshan District,
Shenzhen Guangdong Province 518057
CN

6C-E3-B6 (hex) Nera Telecommunications Ltd.
6CE3B6 (base 16) Nera Telecommunications Ltd.
109 Defu Lane 10
Singapore Singapore 539225
SG

EC-5F-23 (hex) Qinghai Kimascend Electronics Technology Co. Ltd.
EC5F23 (base 16) Qinghai Kimascend Electronics Technology Co. Ltd.
2F,Building 6,J6 Science&Tech Park, No.6 Jiangjun Rd., Jiangning District
Nanjing Jiangsu 211100
CN

04-7D-50 (hex) Shenzhen Kang Ying Technology Co.Ltd.
047D50
(base 16) Shenzhen Kang Ying Technology Co.Ltd.
Units 608,Saiba Electronic tower,NO.6, Langshan 2 Rd., Hi-Tech Industrial Park North , Nanshan, Shenzhen City
Shenzhen Guangdong 518057
CN

54-EF-FE (hex) Fullpower Technologies, Inc.
54EFFE (base 16) Fullpower Technologies, Inc.

1200 Pacific Avenue
Santa Cruz CA 95060
US

80-02-DF (hex) ORA Inc.
8002DF (base 16) ORA Inc.
No.1 Anjialou, Xiaoliangmaqiao Ave., Chaoyang Dist.
BeiJing 100125
CN

DC-D3-21 (hex) HUMAX Co., Ltd.
DCD321 (base 16) HUMAX Co., Ltd.
HUMAX Village, 11-4, Sunae-dong, Bundang-gu
Seongnam-si Gyeonggi-do 463-825
KR

7C-7D-3D (hex) HUAWEI TECHNOLOGIES CO.,LTD
7C7D3D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan Guangdong 523808
CN

44-82-E5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
4482E5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road,
Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-23-4E (hex) Hon Hai Precision Ind. Co.,Ltd.
00234E (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

2C-81-58 (hex) Hon Hai Precision Ind. Co.,Ltd.
2C8158 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

3C-A8-2A (hex) Hewlett Packard
3CA82A (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

2C-23-3A (hex) Hewlett Packard

2C233A (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

00-0A-57 (hex) Hewlett Packard
000A57 (base 16) Hewlett Packard
10955 Tantau Avenue
Cupertino CA 95014
US

00-01-E7 (hex) Hewlett Packard
0001E7 (base 16) Hewlett Packard
11000 Wolfe Road, Mailstop 42LE
Cupertino CA 95014
US

00-01-E6 (hex) Hewlett
Packard
0001E6 (base 16) Hewlett Packard
11000 Wolfe Road, Mailstop 42LE
Cupertino CA 95014
US

00-30-6E (hex) Hewlett Packard
00306E (base 16) Hewlett Packard
ENTERPRISE SYSTEMS TECH.CENTER
CUPERTINO CA 95014
US

00-15-60 (hex) Hewlett Packard
001560 (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-16-35 (hex) Hewlett Packard
001635 (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-08-C7 (hex) Hewlett Packard
0008C7 (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-10-E3 (hex) Hewlett Packard
0010E3 (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-08-83 (hex) Hewlett Packard
000883 (base 16) Hewlett Packard
MAIL STOP 42LE
CUPERTINO CA 95014
US

8C-DC-D4 (hex) Hewlett Packard
8CDCD4 (base 16) Hewlett Packard
11445 Compaq Center
Drive
Houston 77070
US

00-23-76 (hex) HTC Corporation
002376 (base 16) HTC Corporation
No.23 Xinghua Road
Taoyuan County 330
TW

38-E7-D8 (hex) HTC Corporation
38E7D8 (base 16) HTC Corporation
No.23 Xinghua Road
Taoyuan County 330
TW

18-87-96 (hex) HTC Corporation
188796 (base 16) HTC Corporation
No. 23, Xinghua Rd., Taoyuan City
Taoyuan County Taiwan 330
TW

B4-CE-F6 (hex) HTC Corporation
B4CEF6 (base 16) HTC Corporation
No. 23, Xinghua Rd., Taoyuan City
Taoyuan County Taiwan 330
TW

3C-4A-92 (hex) Hewlett Packard
3C4A92 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

D4-C9-EF (hex) Hewlett Packard
D4C9EF (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

FC-15-B4 (hex) Hewlett Packard
FC15B4 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

CC-44-63 (hex) Apple,
Inc.
CC4463 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

6C-72-E7 (hex) Apple, Inc.
6C72E7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

74-1B-B2 (hex) Apple, Inc.
741BB2 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-1D-0F (hex) TP-LINK TECHNOLOGIES CO.,LTD.
001D0F (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
3/F, Bldg. R1-B,
Shenzhen Guangdong 518057
CN

00-23-CD (hex) TP-LINK TECHNOLOGIES CO.,LTD.
0023CD (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
South Building, No.5 Keyuan Road, Central Zone,
Shenzhen Guangdong 518000
CN

D8-5D-4C (hex) TP-LINK TECHNOLOGIES CO.,LTD.
D85D4C (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 7, Second Part, Honghualing Industrial Zone
Shenzhen Guangdong 518000

CN

A0-F3-C1 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
A0F3C1 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building
24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park,Shennan Rd, Nanshan
shenzhen guangdong Province 518057
CN

50-FA-84 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
50FA84 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4)
Shennan Rd, Nanshan Shenzhen,Guangdong Province 518057
CN

44-B3-2D (hex) TP-LINK TECHNOLOGIES CO.,LTD.
44B32D (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4)
Shennan Rd, Nanshan Shenzhen,Guangdong Province 518057
CN

88-25-93 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
882593 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4)
Shennan Rd, Nanshan Shenzhen,Guangdong Province 518057
CN

00-1F-E1 (hex) Hon Hai Precision Ind. Co.,Ltd.
001FE1 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

4C-AC-0A
(hex) zte corporation
4CAC0A (base 16) zte corporation
12/F,ZTE R&D Building,Kejinan Road,
Shenzhen Guangdong 518057
CN

B4-B3-62 (hex) zte corporation
B4B362 (base 16) zte corporation
12/F,ZTE R&D Building,Kejinan Road,
Shenzhen Guangdong 518057
CN

B0-75-D5 (hex) zte corporation
B075D5 (base 16) zte corporation

12/F,ZTE R&D Building,Kejinan Road,
Shenzhen Guangdong 518057
CN

D0-15-4A (hex) zte corporation
D0154A (base 16) zte corporation
12/F.,zte R&D building,kejinan Road,
shenzhen guangdong 518057
CN

00-26-ED (hex) zte corporation
0026ED (base 16) zte corporation
12/F ZTE Plaza,Keji Road South,Hi-Tech Industrial Park,Nanshan District,
Shenzhen GUANGDONG 518057
CN

00-22-93 (hex) zte corporation
002293 (base 16) zte corporation
12/F ZTE Plaza,Keji Road South,Hi-Tech Industrial Park,Nanshan District,
Shenzhen GUANGDONG 518057
CN

00-60-57 (hex) Murata
Manufacturing Co., Ltd.
006057 (base 16) Murata Manufacturing Co., Ltd.
1-18-1 HAKUSAN MIDORI-KU
YOKOHAMA 226 12345
JP

78-3E-53 (hex) SKY UK LIMITED
783E53 (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

00-19-FB (hex) SKY UK LIMITED
0019FB (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

C4-F5-7C (hex) Brocade Communications Systems LLC
C4F57C (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

00-12-F2 (hex) Brocade Communications Systems LLC

0012F2 (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

00-05-1E (hex) Brocade Communications Systems LLC
00051E (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

38-46-08 (hex) zte corporation
384608 (base 16) zte corporation
12/F,ZTE R&D Building,Kejinan
Road,
Shenzhen Guangdong 518057
CN

6C-E8-73 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
6CE873 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park
Shenzhen Guangdong 518057
CN

C4-6E-1F (hex) TP-LINK TECHNOLOGIES CO.,LTD.
C46E1F (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4)
Shennan Rd, Nanshan Shenzhen,Guangdong Province 518057
CN

08-3E-8E (hex) Hon Hai Precision Ind. Co.,Ltd.
083E8E (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

10-A5-D0 (hex) Murata Manufacturing Co., Ltd.
10A5D0 (base 16) Murata Manufacturing Co., Ltd.
1-10-1,Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

90-48-9A (hex) Hon Hai Precision Ind. Co.,Ltd.
90489A (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st
Road
Chongqing Chongqing 401332
CN

00-71-CC (hex) Hon Hai Precision Ind. Co.,Ltd.
0071CC (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

B0-5B-67 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B05B67 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

CC-A2-23 (hex) HUAWEI TECHNOLOGIES CO.,LTD
CCA223 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

78-6A-89 (hex) HUAWEI TECHNOLOGIES CO.,LTD
786A89 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

50-A7-2B (hex) HUAWEI TECHNOLOGIES CO.,LTD
50A72B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

0C-D6-BD
(hex) HUAWEI TECHNOLOGIES CO.,LTD
0CD6BD (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-F8-1C (hex) HUAWEI TECHNOLOGIES CO.,LTD
00F81C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

08-7A-4C (hex) HUAWEI TECHNOLOGIES CO.,LTD
087A4C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate
Shenzhen GuangDong 518057

CN

AC-E2-15 (hex) HUAWEI TECHNOLOGIES CO.,LTD
ACE215 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park,
Shenzhen Guangdong 518057
CN

00-04-0D (hex) Avaya Inc
00040D (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

70-A8-E3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
70A8E3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
Shenzhen
518129
CN

F8-E8-11 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F8E811 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
Shenzhen Guangdong 518129
CN

20-0B-C7 (hex) HUAWEI TECHNOLOGIES CO.,LTD
200BC7 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
Shenzhen Guangdong 518129
CN

34-6B-D3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
346BD3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park,
Shenzhen Guangdong 518057
CN

70-72-3C (hex) HUAWEI TECHNOLOGIES CO.,LTD
70723C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park,
Shenzhen Guangdong 518057
CN

AC-E8-7B (hex) HUAWEI TECHNOLOGIES CO.,LTD
ACE87B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District

Shenzhen
Guangdong 518057
CN

F8-3D-FF (hex) HUAWEI TECHNOLOGIES CO.,LTD
F83DFF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District
Shenzhen Guangdong 518057
CN

28-5F-DB (hex) HUAWEI TECHNOLOGIES CO.,LTD
285FDB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District,
Shenzhen Guangdong 518108
CN

40-4D-8E (hex) HUAWEI TECHNOLOGIES CO.,LTD
404D8E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District,
Shenzhen Guangdong 518108
CN

4C-54-99 (hex) HUAWEI TECHNOLOGIES CO.,LTD
4C5499 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District,
Shenzhen Guangdong 518108
CN

84-DB-AC (hex) HUAWEI TECHNOLOGIES CO.,LTD
84DBAC
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-77-2B (hex) HUAWEI TECHNOLOGIES CO.,LTD
94772B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D4-40-F0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D440F0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-02-1F (hex) HUAWEI TECHNOLOGIES CO.,LTD

04021F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

14-B9-68 (hex) HUAWEI TECHNOLOGIES CO.,LTD
14B968 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

5C-F9-6A (hex) HUAWEI TECHNOLOGIES CO.,LTD
5CF96A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2
Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F4-9F-F3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F49FF3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

24-09-95 (hex) HUAWEI TECHNOLOGIES CO.,LTD
240995 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-8A-15 (hex) Avaya Inc
048A15 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

B4-B0-17 (hex) Avaya Inc
B4B017 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

90-FB-5B (hex) Avaya Inc
90FB5B (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

C8-F4-06 (hex) Avaya Inc
C8F406 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

70-52-C5 (hex) Avaya Inc
7052C5 (base 16) Avaya Inc
360 Mt
Kemble Ave
Morristown NJ 07960
US

F8-15-47 (hex) Avaya Inc
F81547 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

50-61-84 (hex) Avaya Inc
506184 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

10-CD-AE (hex) Avaya Inc
10CDAE (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

00-60-5C (hex) Cisco Systems, Inc
00605C (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

00-06-C1 (hex) Cisco Systems, Inc
0006C1 (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

00-E0-14 (hex) Cisco Systems, Inc
00E014 (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

20-A7-83 (hex) miControl GmbH
20A783 (base 16) miControl GmbH
Blankenfelder Chaussee 1
Großbeeren Brandenburg 15831
DE

00-50-BD (hex) Cisco Systems, Inc
0050BD
(base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-90-6F (hex) Cisco Systems, Inc
00906F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F8-4A-BF (hex) HUAWEI TECHNOLOGIES CO.,LTD
F84ABF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
Shenzhen Guangdong 518129
CN

78-D7-52 (hex) HUAWEI TECHNOLOGIES CO.,LTD
78D752 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1-4,Huawei Industrial Base,Bantian,Longgang
ShenZhen GuangDong 518129
CN

10-47-80 (hex) HUAWEI TECHNOLOGIES CO.,LTD
104780 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1-4,Huawei Industrial Base,Bantian,Longgang
ShenZhen GuangDong 518129
CN

54-89-98 (hex) HUAWEI TECHNOLOGIES CO.,LTD
548998 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1-4,Huawei Industrial Base,Bantian,Longgang
ShenZhen GuangDong 518129
CN

30-D1-7E (hex) HUAWEI
TECHNOLOGIES CO.,LTD
30D17E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen

ShenZhen GuangDong 518129
CN

F8-A4-5F (hex) Xiaomi Communications Co Ltd
F8A45F (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

64-09-80 (hex) Xiaomi Communications Co Ltd
640980 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

18-59-36 (hex) Xiaomi Communications Co Ltd
185936 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

60-73-5C (hex) Cisco Systems, Inc
60735C (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

34-A8-4E (hex) Cisco Systems, Inc
34A84E (base 16) Cisco
Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

54-78-1A (hex) Cisco Systems, Inc
54781A (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

94-04-9C (hex) HUAWEI TECHNOLOGIES CO.,LTD
94049C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base
Shenzhen Guangdong 518129
CN

68-8F-84 (hex) HUAWEI TECHNOLOGIES CO.,LTD
688F84 (base 16) HUAWEI TECHNOLOGIES CO.,LTD

D1,Huawei Industrial Base
SHENZHEN GUANGDONG 518129
CN

00-50-14 (hex) Cisco Systems, Inc
005014 (base 16) Cisco Systems, Inc
170 W. TASMAN DR.
SAN JOSE CA 95134-1706
US

00-90-F2 (hex) Cisco Systems, Inc
0090F2 (base 16) Cisco Systems, Inc
170 W. TASMAN DR.
SAN JOSE CA 95134-1706
US

54-4A-16 (hex) Texas Instruments
544A16 (base 16) Texas Instruments
12500 TI BLVD
Dallas 75243
US

74-D6-EA (hex) Texas Instruments
74D6EA (base 16) Texas
Instruments
12500 TI BLVD
Dallas 75243
US

20-91-48 (hex) Texas Instruments
209148 (base 16) Texas Instruments
12500 TI BLVD
Dallas 75243
US

00-50-F0 (hex) Cisco Systems, Inc
0050F0 (base 16) Cisco Systems, Inc
170 W. TASMAN DRIVE
SAN JOSE CA 95134-1706
US

38-1C-1A (hex) Cisco Systems, Inc
381C1A (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

BC-67-1C (hex) Cisco Systems, Inc

BC671C (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

34-62-88 (hex) Cisco Systems, Inc
346288 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

CC-D8-C1 (hex) Cisco Systems, Inc
CCD8C1 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

7C-0E-CE (hex) Cisco Systems, Inc
7C0ECE (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

00-17-31
(hex) ASUSTek COMPUTER INC.
001731 (base 16) ASUSTek COMPUTER INC.
No.5 Shing Yeh Street,Kwei Shan Hsiang,Taoyuan
Taipei 333
TW

00-22-15 (hex) ASUSTek COMPUTER INC.
002215 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd.,Peitou,
Taipei 112
TW

E0-CB-4E (hex) ASUSTek COMPUTER INC.
E0CB4E (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd.,Peitou,Taipei 112 ,Taiwan
Taipei Taiwan 112
TW

E0-2F-6D (hex) Cisco Systems, Inc
E02F6D (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

58-97-1E (hex) Cisco Systems, Inc
58971E (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

B4-E9-B0 (hex) Cisco Systems, Inc
B4E9B0 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

00-08-32 (hex) Cisco Systems, Inc
000832 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

30-85-A9
(hex) ASUSTek COMPUTER INC.
3085A9 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou
Taipei 112
US

B8-38-61 (hex) Cisco Systems, Inc
B83861 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

18-9C-5D (hex) Cisco Systems, Inc
189C5D (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

5C-A4-8A (hex) Cisco Systems, Inc
5CA48A (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

1C-1D-86 (hex) Cisco Systems, Inc
1C1D86 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

58-0A-20 (hex) Cisco Systems, Inc
580A20 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

2C-3E-CF (hex) Cisco Systems, Inc
2C3ECF (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

50-87-89 (hex) Cisco Systems, Inc
508789
(base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

DC-A5-F4 (hex) Cisco Systems, Inc
DCA5F4 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

50-17-FF (hex) Cisco Systems, Inc
5017FF (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

A0-EC-F9 (hex) Cisco Systems, Inc
A0ECF9 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

54-7C-69 (hex) Cisco Systems, Inc
547C69 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

70-10-5C (hex) Cisco Systems, Inc
70105C (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134

US

10-F3-11 (hex) Cisco Systems, Inc
10F311 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

38-20-56 (hex) Cisco Systems, Inc
382056 (base 16) Cisco Systems, Inc
170 West
Tasman Drive
San Jose CA 95134
US

DC-CE-C1 (hex) Cisco Systems, Inc
DCCEC1 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

9C-57-AD (hex) Cisco Systems, Inc
9C57AD (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

0C-E0-E4 (hex) PLANTRONICS, INC.
0CE0E4 (base 16) PLANTRONICS, INC.
345 ENCINAL STREET
SANTA CRUZ CA 95060
US

74-A2-E6 (hex) Cisco Systems, Inc
74A2E6 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

BC-F1-F2 (hex) Cisco Systems, Inc
BCF1F2 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

C8-00-84 (hex) Cisco Systems, Inc
C80084 (base 16) Cisco Systems, Inc
170 West Tasman Drive

San Jose CA 95134
US

40-A6-E8 (hex) Cisco Systems, Inc
40A6E8 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

B0-59-47
(hex) Shenzhen Qihu Intelligent Technology Company Limited
B05947 (base 16) Shenzhen Qihu Intelligent Technology Company Limited
Room 201, Block A, No.1, Qianwan Road 1,Qianhai Shenzhen HongKong Modern Service Industry Cooperation Zone
Shenzhen Guangdong 518057
CN

60-FE-C5 (hex) Apple, Inc.
60FEC5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E4-25-E7 (hex) Apple, Inc.
E425E7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

BC-92-6B (hex) Apple, Inc.
BC926B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

10-1C-0C (hex) Apple, Inc.
101C0C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

08-00-07 (hex) Apple, Inc.
080007 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-40-96 (hex) Cisco Systems, Inc

004096 (base 16) Cisco Systems, Inc
170 W. Tasman Drive
San Jose CA 95134
US

E8-65-49
(hex) Cisco Systems, Inc
E86549 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

B0-7D-47 (hex) Cisco Systems, Inc
B07D47 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

38-ED-18 (hex) Cisco Systems, Inc
38ED18 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

00-16-CB (hex) Apple, Inc.
0016CB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-17-F2 (hex) Apple, Inc.
0017F2 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-1F-5B (hex) Apple, Inc.
001F5B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-24-36 (hex) Apple, Inc.
002436 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-25-4B (hex) Apple, Inc.
00254B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-19-47
(hex) Cisco SPVTG
001947 (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

00-18-39 (hex) Cisco-Linksys, LLC
001839 (base 16) Cisco-Linksys, LLC
121 Theory Dr.
Irvine CA 92612
US

A8-FA-D8 (hex) Apple, Inc.
A8FAD8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-88-65 (hex) Apple, Inc.
008865 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

BC-3B-AF (hex) Apple, Inc.
BC3BAF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

3C-E0-72 (hex) Apple, Inc.
3CE072 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

38-48-4C (hex) Apple, Inc.
38484C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

80-49-71 (hex) Apple, Inc.
804971 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

6C-3E-6D (hex) Apple, Inc.
6C3E6D
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

BC-67-78 (hex) Apple, Inc.
BC6778 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

20-C9-D0 (hex) Apple, Inc.
20C9D0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

68-96-7B (hex) Apple, Inc.
68967B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

7C-6D-62 (hex) Apple, Inc.
7C6D62 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

40-D3-2D (hex) Apple, Inc.
40D32D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C4-2C-03 (hex) Apple, Inc.
C42C03 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

90-27-E4 (hex) Apple, Inc.
9027E4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

84-FC-FE (hex) Apple, Inc.
84FCFE (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E4-8B-7F
(hex) Apple, Inc.
E48B7F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-D1-CB (hex) Apple, Inc.
D8D1CB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B8-17-C2 (hex) Apple, Inc.
B817C2 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

7C-11-BE (hex) Apple, Inc.
7C11BE (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

98-D6-BB (hex) Apple, Inc.
98D6BB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A4-67-06 (hex) Apple, Inc.
A46706 (base 16) Apple, Inc.
1 Infinite Loop

Cupertino CA 95014
US

8C-58-77 (hex) Apple, Inc.
8C5877 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

7C-F0-5F (hex) Apple, Inc.
7CF05F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

10-9A-DD (hex) Apple, Inc.
109ADD (base 16) Apple,
Inc.
1 Infinite Loop
Cupertino CA 95014
US

58-1F-AA (hex) Apple, Inc.
581FAA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

88-C6-63 (hex) Apple, Inc.
88C663 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

28-37-37 (hex) Apple, Inc.
283737 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

50-EA-D6 (hex) Apple, Inc.
50EAD6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

18-9E-FC (hex) Apple, Inc.
189EFC (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

AC-CF-5C (hex) Apple, Inc.
ACCF5C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

80-00-6E (hex) Apple, Inc.
80006E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

84-8E-0C (hex) Apple, Inc.
848E0C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

3C-15-C2
(hex) Apple, Inc.
3C15C2 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

6C-70-9F (hex) Apple, Inc.
6C709F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

64-76-BA (hex) Apple, Inc.
6476BA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

34-E2-FD (hex) Apple, Inc.
34E2FD (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

04-48-9A (hex) Apple, Inc.

04489A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

90-FD-61 (hex) Apple, Inc.
90FD61 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

2C-F0-EE (hex) Apple, Inc.
2CF0EE (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

5C-97-F3 (hex) Apple, Inc.
5C97F3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D4-F4-6F (hex) Apple, Inc.
D4F46F (base 16) Apple, Inc.
1
Infinite Loop
Cupertino CA 95014
US

5C-F5-DA (hex) Apple, Inc.
5CF5DA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

18-EE-69 (hex) Apple, Inc.
18EE69 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

64-9A-BE (hex) Apple, Inc.
649ABE (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-99-BF (hex) Apple, Inc.
F099BF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

48-43-7C (hex) Apple, Inc.
48437C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

34-A3-95 (hex) Apple, Inc.
34A395 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

78-7E-61 (hex) Apple, Inc.
787E61 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

60-F8-1D (hex) Apple, Inc.
60F81D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C0-F2-FB
(hex) Apple, Inc.
C0F2FB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

24-E3-14 (hex) Apple, Inc.
24E314 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

80-E6-50 (hex) Apple, Inc.
80E650 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A4-C3-61 (hex) Apple, Inc.
A4C361 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B0-9F-BA (hex) Apple, Inc.
B09FBA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

0C-4D-E9 (hex) Apple, Inc.
0C4DE9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E0-F5-C6 (hex) Apple, Inc.
E0F5C6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A0-ED-CD (hex) Apple, Inc.
A0EDCD (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-F6-1C (hex) Apple, Inc.
F0F61C (base 16) Apple, Inc.
1 Infinite
Loop
Cupertino CA 95014
US

8C-29-37 (hex) Apple, Inc.
8C2937 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

08-70-45 (hex) Apple, Inc.
087045 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

A8-88-08 (hex) Apple, Inc.
A88808 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D0-33-11 (hex) Apple, Inc.
D03311 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-F2-49 (hex) Hitron Technologies. Inc
F0F249 (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

94-E9-6A (hex) Apple, Inc.
94E96A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-29-3A (hex) Apple, Inc.
AC293A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

9C-FC-01 (hex) Apple, Inc.
9CFC01 (base 16) Apple,
Inc.
1 Infinite Loop
Cupertino CA 95014
US

9C-35-EB (hex) Apple, Inc.
9C35EB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

50-7A-55 (hex) Apple, Inc.
507A55 (base 16) Apple, Inc.
1 Infinite Loop

Cupertino CA 95014
US

38-C9-86 (hex) Apple, Inc.
38C986 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C8-C2-C6 (hex) Shanghai Airm2m Communication Technology Co., Ltd
C8C2C6 (base 16) Shanghai Airm2m Communication Technology Co., Ltd
Rm.816,Building C,No.668,East Beijing Road,Huangpu District,Shanghai,China
Shang hai Shang hai 200001
CN

DC-FE-07 (hex) PEGATRON CORPORATION
DCFE07 (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

70-79-38 (hex) Wuxi Zhanrui Electronic Technology Co.,LTD
707938 (base 16) Wuxi Zhanrui Electronic Technology Co.,LTD
Wuxi,Taihu West Road No.1188 Runhua
International Building 1604
Wuxi Jiangsu 214072
CN

78-9C-85 (hex) August Home, Inc.
789C85 (base 16) August Home, Inc.
657 Bryant Street
San Francisco California 94107
US

58-82-A8 (hex) Microsoft
5882A8 (base 16) Microsoft
1 Microsoft Way
Redmond Washington 98052
US

58-68-5D (hex) Tempo Australia Pty Ltd
58685D (base 16) Tempo Australia Pty Ltd
8/14 Rodborough Rd
Frenchs Forest NSW 2086
AU

B8-13-E9 (hex) Trace Live Network
B813E9 (base 16) Trace Live Network

#200, 5970 Centre St SE
Calgary Alberta T2H0C1
CA

80-B7-09 (hex) Viptela, Inc
80B709 (base 16) Viptela, Inc
1740 Technology Drive, Ste#500
San Jose California 95110
US

F0-0D-5C (hex) JinQianMao Technology Co.,Ltd.
F00D5C (base 16) JinQianMao Technology Co.,Ltd.
58#,Jiangbin Road,Taijiang District
Fuzhou Fujian 350009
CN

54-BE-53 (hex) zte corporation
54BE53 (base 16) zte
corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

30-E0-90 (hex) Genevisio Ltd.
30E090 (base 16) Genevisio Ltd.
13F, No.33, Sec. 1, Minsheng Rd.
New Taipei City Banqiao Dist. 220871
TW

C4-9E-41 (hex) G24 Power Limited
C49E41 (base 16) G24 Power Limited
South Lake Drive
Newport Gwent NP10 8AS
GB

D0-3E-5C (hex) HUAWEI TECHNOLOGIES CO.,LTD
D03E5C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E0-36-76 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E03676 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

EC-38-8F (hex) HUAWEI TECHNOLOGIES CO.,LTD

EC388F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

24-31-84 (hex) SHARP Corporation
243184
(base 16) SHARP Corporation
22-22,Nagaike-Cho
Osaka-City Osaka-Prefecture 545-8522
JP

58-2B-DB (hex) Pax AB
582BDB (base 16) Pax AB
Box 72
Hälleforsnäs 64806
SE

24-DA-9B (hex) Motorola Mobility LLC, a Lenovo Company
24DA9B (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

28-0E-8B (hex) Beijing Spirit Technology Development Co., Ltd.
280E8B (base 16) Beijing Spirit Technology Development Co., Ltd.
No. 26 Ave. 4 Chuangye Middle Road
Beijing 100085
CN

F4-4D-30 (hex) Elitegroup Computer Systems Co.,Ltd.
F44D30 (base 16) Elitegroup Computer Systems Co.,Ltd.
No.239,Sec.2,Ti Ding Blvd.,
Taipei Taipei
TW

A4-DC-BE (hex) HUAWEI TECHNOLOGIES CO.,LTD
A4DCBE (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

EC-B8-70 (hex) Beijing
Heweinet Technology Co.,Ltd.
ECB870 (base 16) Beijing Heweinet Technology Co.,Ltd.
1514 Room,15F,No.2 Building
Haidian District Beijing 100085
CN

B0-78-F0 (hex) Beijing HuaqinWorld Technology Co.,Ltd.
B078F0 (base 16) Beijing HuaqinWorld Technology Co.,Ltd.
Beijing City, Chaoyang District Wangjing Garden Department Youle A District No. 3 building 308 room
Bejjing Bejjing 100102
CN

38-D4-0B (hex) Samsung Electronics Co.,Ltd
38D40B (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E8-3A-12 (hex) Samsung Electronics Co.,Ltd
E83A12 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

94-BB-AE (hex) Husqvarna AB
94BBAE (base 16) Husqvarna AB
Drottninggatan 2
Huskvarna Sweden 56131
SE

D4-0A-A9 (hex) ARRIS Group, Inc.
D40AA9 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

20-3D-66
(hex) ARRIS Group, Inc.
203D66 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

D4-94-E8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D494E8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

80-65-6D (hex) Samsung Electronics Co.,Ltd
80656D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350

KR

20-9B-CD (hex) Apple, Inc.
209BCD (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

30-95-E3 (hex) SHANGHAI SIMCOM LIMITED
3095E3 (base 16) SHANGHAI SIMCOM LIMITED
Building A,SIM Technology Building,No.633, Jinzhong Road,Changning District , Shanghai, P.R.China
Shanghai / 200355
CN

FC-F1-36 (hex) Samsung Electronics Co.,Ltd
FCF136 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

B8-86-87 (hex) Liteon
Technology Corporation
B88687 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

18-89-5B (hex) Samsung Electronics Co.,Ltd
18895B (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

58-49-25 (hex) E3 Enterprise
584925 (base 16) E3 Enterprise
32F, Shinjuku Nomura Building
Tokyo 163-0532
JP

94-F2-78 (hex) Elma Electronic
94F278 (base 16) Elma Electronic
44350 S. Grimmer Blvd
Fremont CA 94538
US

3C-5C-C3 (hex) Shenzhen First Blue Chip Technology Ltd
3C5CC3 (base 16) Shenzhen First Blue Chip Technology Ltd
3Nod Smart Building,11Floor,No.3012,Binhai Avenue, Nanshan District

Shenzhen Guangdong 518000
CN

EC-EE-D8 (hex) ZTLX Network Technology Co.,Ltd
ECEED8 (base 16) ZTLX Network Technology Co.,Ltd
Unit 703,No 77,CuShaHuan
ZhuHai GuangDong 519000
CN

80-EB-77 (hex) Wistron Corporation
80EB77
(base 16) Wistron Corporation
No. 158, SingShan Rd., Neihu, Taipei 11469, Taiwan, R.O.C.
Neihu Taipei 11469

4C-C6-81 (hex) Shenzhen Aisat Electronic Co., Ltd.
4CC681 (base 16) Shenzhen Aisat Electronic Co., Ltd.
Golden Building 419#, Design Park,
Shenzhen Guangdong 518056
CN

08-94-EF (hex) Wistron Infocomm (Zhongshan) Corporation
0894EF (base 16) Wistron Infocomm (Zhongshan) Corporation
No.38,East Keji Road,Zhongshan Torch Development Zone,Zhongshan City,Guangdong,China
Zhongshan Guangdong 528437
CN

28-37-13 (hex) Shenzhen 3Nod Digital Technology Co., Ltd.
283713 (base 16) Shenzhen 3Nod Digital Technology Co., Ltd.
Building D, No.8 Langhui Road, Tangxiayong Community, Songgang Street, Baoan District, Shenzhen City, Guangdong Province, P.R. China
Shenzhen Guangdong 518105
CN

E0-31-9E (hex) Valve Corporation
E0319E (base 16) Valve Corporation
10900 NE 4th ST
Bellevue
Washington 98004
US

48-39-74 (hex) Proware Technologies Co., Ltd.
483974 (base 16) Proware Technologies Co., Ltd.
2nd F1 East Wing,South Section,Factory Building 24,Science&Technology Park, Shennan Rd, Nanshan District
Shenzhen Guangdong 518057
CN

30-FF-F6 (hex) HangZhou KuoHeng Technology Co.,ltd
30FFF6 (base 16) HangZhou KuoHeng Technology Co.,ltd
No.368,Wangjiali,Chang'ancun Industrial Park,Wenyan Town, Xiaoshan District, Hangzhou, CHina
HangZhou ZheJiang 311258
CN

7C-AB-25 (hex) MESMO TECHNOLOGY INC.
7CAB25 (base 16) MESMO TECHNOLOGY INC.
3F., No.181, ZHOUZI ST., NEIHU DIST.,
TAIPEI TAIPEI 11493
TW

C4-9F-F3 (hex) Mciao Technologies, Inc.
C49FF3 (base 16) Mciao Technologies, Inc.
Room304, Building 1, No.288 Qiuyi Rd., Binjiang District
Hangzhou Zhejiang 310052
CN

78-8E-33 (hex) Jiangsu SEUIC Technology Co.,Ltd
788E33 (base 16) Jiangsu SEUIC Technology Co.,Ltd
NO23.Wenzhu
Road.Yuhuatai Distrct.
Nanjing Jiangsu Province 210012
CN

7C-A2-37 (hex) King Slide Technology CO., LTD.
7CA237 (base 16) King Slide Technology CO., LTD.
No. 6, Luke 9th Rd.,
Kaohsiung Taiwan 82151
TW

D4-04-CD (hex) ARRIS Group, Inc.
D404CD (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

58-48-22 (hex) Sony Corporation
584822 (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

D8-EF-CD (hex) Nokia Solutions and Networks GmbH & Co. KG
D8EFCD (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

48-E2-44 (hex) Hon Hai Precision Ind. Co.,Ltd.
48E244 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

74-73-36 (hex) MICRODIGTAL Inc
747336 (base 16) MICRODIGTAL Inc
10F, Ace High-End Tower 9th,
Seoul 153-803
KR

B0-41-1D
(hex) ITTIM Technologies
B0411D (base 16) ITTIM Technologies
B1606, No.6, Zhongguancun South Street,
Beijing Beijing 100086
CN

A4-7B-2C (hex) Nokia
A47B2C (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

DC-DB-70 (hex) Tonfunk Systementwicklung und Service GmbH
DCDB70 (base 16) Tonfunk Systementwicklung und Service GmbH
Anger20
Falkenstein / Harz OT Ermsleben Sachsen-Anhalt 06463
DE

80-0B-51 (hex) Chengdu XGimi Technology Co.,Ltd
800B51 (base 16) Chengdu XGimi Technology Co.,Ltd
5F Building A7,Tianfu Software Park,Tianfu
Chengdu Sichuan 610041
CN

A0-A6-5C (hex) Supercomputing Systems AG
A0A65C (base 16) Supercomputing Systems AG
Technoparkstrasse 1
Zurich ZH 8005
CH

88-41-57 (hex) Shenzhen Atsmart Technology Co.,Ltd.
884157 (base 16) Shenzhen Atsmart Technology Co.,Ltd.
East 3F ,2 Building, Meijing Industry Park, Qiaoxiang Road, Nanshan District
Shenzhen

Guangdong 518000
CN

34-81-F4 (hex) SST Taiwan Ltd.
3481F4 (base 16) SST Taiwan Ltd.
5F, No. 5, Industry E Rd. VII,
Hsin Chu, Taiwan 30077
TW

F8-0D-60 (hex) CANON INC.
F80D60 (base 16) CANON INC.
30-2 Shimomaruko 3-chome,
Ohta-ku Tokyo 146-8501
JP

F8-BF-09 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F8BF09 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

7C-B2-5C (hex) Acacia Communications
7CB25C (base 16) Acacia Communications
3 Clock Tower Place
Maynard MA 01754
US

F0-18-2B (hex) LG Chem
F0182B (base 16) LG Chem
128, Yeoui-daero, Yeongdeungpo-gu,
Seoul Seoul 150-721
KR

38-2B-78 (hex) ECO PLUGS ENTERPRISE CO., LTD
382B78 (base 16) ECO PLUGS ENTERPRISE CO., LTD
10F,-6, No.117, Sec.2, Zhongbei Rd., Zhongli Dist.,
Taoyuan Taiwan 32097
TW

00-A7-84 (hex) ITX security
00A784
(base 16) ITX security
9F Kolon Digital Tower Aston Bldg
SEOUL (Outside US/Canada/China) 441-813
KR

E8-37-7A (hex) Zyxel Communications Corporation
E8377A (base 16) Zyxel Communications Corporation

No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

D8-9A-34 (hex) Beijing SHENQI Technology Co., Ltd.
D89A34 (base 16) Beijing SHENQI Technology Co., Ltd.
No.6 Shang Di West Road
Haidian District Beijing 100085
CN

C4-EA-1D (hex) Technicolor Delivery Technologies Belgium NV
C4EA1D (base 16) Technicolor Delivery Technologies Belgium NV
Prins Boudewijnlaan 47
Edegem - Belgium B-2650
BE

7C-F9-0E (hex) Samsung Electronics Co.,Ltd
7CF90E (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

50-F0-D3 (hex) Samsung Electronics Co.,Ltd
50F0D3 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

80-3B-2A
(hex) ABB Xiamen Low Voltage Equipment Co.,Ltd.
803B2A (base 16) ABB Xiamen Low Voltage Equipment Co.,Ltd.
No.12-20,3rd Chuang Xin Road
Xiamen SEZ Fujian 361006
CN

3C-CE-15 (hex) Mercedes-Benz USA, LLC
3CCE15 (base 16) Mercedes-Benz USA, LLC
One Mercedes Drive
Montvale NJ 07645
US

38-FA-CA (hex) Skyworth Digital Technology(Shenzhen) Co.,Ltd
38FACA (base 16) Skyworth Digital Technology(Shenzhen) Co.,Ltd
7F,Block A,Skyworth Building,
Shenzhen Guangdong 518057
CN

14-9A-10 (hex) Microsoft Corporation

149A10 (base 16) Microsoft Corporation
1 Microsoft Way
Redmond Washington 98052
FI

5C-B4-3E (hex) HUAWEI TECHNOLOGIES CO.,LTD
5CB43E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

54-E1-40 (hex) INGENICO
54E140 (base 16) INGENICO
9 AVENUE DE LA GARE
VALENCE DROME 26958
FR

E4-90-7E
(hex) Motorola Mobility LLC, a Lenovo Company
E4907E (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

24-E5-AA (hex) Philips Oral Healthcare, Inc.
24E5AA (base 16) Philips Oral Healthcare, Inc.
22100 Bothell Everett Hwy
Bothell WA 98021
US

78-BD-BC (hex) Samsung Electronics Co.,Ltd
78BDBC (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

34-9B-5B (hex) Maquet GmbH
349B5B (base 16) Maquet GmbH
Kehler Strasse 31
Rastatt Baden-Württemberg 76437
DE

84-11-9E (hex) Samsung Electronics Co.,Ltd
84119E (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

74-6A-3A (hex) Aperi Corporation
746A3A (base 16) Aperi Corporation
360 Mobil Avenue
Camarillo CA 93010
US

94-A7-B7 (hex) zte corporation
94A7B7 (base 16) zte corporation
12/F.,zte
R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

18-44-E6 (hex) zte corporation
1844E6 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

48-50-73 (hex) Microsoft Corporation
485073 (base 16) Microsoft Corporation
1 Microsoft Way
Redmond Washington 98052
FI

70-77-81 (hex) Hon Hai Precision Ind. Co.,Ltd.
707781 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

28-76-10 (hex) IgniteNet
287610 (base 16) IgniteNet
1, Creation 3rd Rd.
Hsinchu 300
TW

1C-83-41 (hex) Hefei Bitland Information Technology Co.Ltd
1C8341 (base 16) Hefei Bitland Information Technology Co.Ltd
C1# Building, Bitland Industrial Park, No#4088, Jinxiu RD,Economic Development Zone, Hefei, Anhui, China
Hefei Anhui 230061
CN

70-68-79 (hex) Saijo
Denki International Co., Ltd.
706879 (base 16) Saijo Denki International Co., Ltd.
39/9 Moo 9 Soi Duangmanee
Muang Nonthaburi 11000

TH

08-1F-EB (hex) BinCube
081FEB (base 16) BinCube
Si Ming Shan Road 116, Beilun
Ningbo Zhejiang 315800
CN

78-5F-4C (hex) Argox Information Co., Ltd.
785F4C (base 16) Argox Information Co., Ltd.
7F, No.126, Lane 235, Baoqiao Rd., Xindian Dist.
New Taipei City Taipei 231
TW

6C-1E-70 (hex) Guangzhou YBDS IT Co.,Ltd
6C1E70 (base 16) Guangzhou YBDS IT Co.,Ltd
Room 318,3/F,970 Kang Wang Bei Lu,Liwan District,Guangzhou,PRC
Guangzhou City Guangdong Province 510170
CN

20-D7-5A (hex) Posh Mobile Limited
20D75A (base 16) Posh Mobile Limited
1011A 10/F Harbour Centre Tower 1, 1 Hok Cheung Street
HungHom Kowloon 00000
HK

F4-15-63 (hex) F5 Networks, Inc.
F41563 (base 16) F5 Networks, Inc.
1322 North Whitman Lane
Liberty Lake WA 99019
US

8C-8B-83
(hex) Texas Instruments
8C8B83 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

40-11-DC (hex) Sonance
4011DC (base 16) Sonance
212 Avenida Fabricante
San Clemente California 92672
US

10-AF-78 (hex) Shenzhen ATUE Technology Co., Ltd
10AF78 (base 16) Shenzhen ATUE Technology Co., Ltd
3/F,Building 2nd, Xintang Industry Zone,Fuyong Town,Bao'an District

Shenzhen Guangdong 518103
CN

D8-AD-DD (hex) Sonavation, Inc.
D8ADDD (base 16) Sonavation, Inc.
3970 RCA Blvd.
Palm Beach Gardens Florida 33410
US

88-33-BE (hex) Ivenix, Inc.
8833BE (base 16) Ivenix, Inc.
21 Water Street
Amesbury MA 01913
US

54-B8-0A (hex) D-Link International
54B80A (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

34-CC-28 (hex) Nexpring Co. LTD.,
34CC28 (base 16) Nexpring Co. LTD.,
3rd Floor,
Building C, PDC Tower
Sungnam City Kyungki-do 463400
KR

54-E2-C8 (hex) Dongguan Aoyuan Electronics Technology Co., Ltd
54E2C8 (base 16) Dongguan Aoyuan Electronics Technology Co., Ltd
Factory A7 Zhen'an Sci-Tech Industrial Park, Chang'an Town, Dongguan City, Guangdong Province, China
Dongguan City Guangdong Province 523863
CN

24-9E-AB (hex) HUAWEI TECHNOLOGIES CO.,LTD
249EAB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E4-8D-8C (hex) Routerboard.com
E48D8C (base 16) Routerboard.com
Mikrotikls SIA
Riga Riga LV1009
LV

CC-19-A8 (hex) PT Inovação e Sistemas SA
CC19A8 (base 16) PT Inovação e Sistemas SA

Rua Eng. José Ferreira Pinto Basto
Aveiro Aveiro 3810-106
PT

6C-A7-5F (hex) zte corporation
6CA75F (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong
518057
CN

8C-79-67 (hex) zte corporation
8C7967 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

B4-B2-65 (hex) DAEHO I&T
B4B265 (base 16) DAEHO I&T
211, Jayumuyeok 3-gil, MasanHoewon-gu
Changwon-si Gyeongsangnam-do 630-812
KR

CC-A4-AF (hex) Shenzhen Sowell Technology Co., LTD
CCA4AF (base 16) Shenzhen Sowell Technology Co., LTD
7F, Yizhe Building. Yuquan Road.
Shen Zhen Guang Dong 518052
CN

E0-35-60 (hex) Challenger Supply Holdings, LLC
E03560 (base 16) Challenger Supply Holdings, LLC
4500 Mercantile Plaza Dr.
Fort Worth TX 76137
US

3C-CB-7C (hex) TCT mobile ltd
3CCB7C (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

E4-CE-70 (hex) Health & Life co., Ltd.
E4CE70 (base 16) Health & Life co., Ltd.
9F, No. 186, Jian Yi Road
New Taipei
City Taiwan 23553
TW

24-4B-03 (hex) Samsung Electronics Co.,Ltd
244B03 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

00-71-C2 (hex) PEGATRON CORPORATION
0071C2 (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

74-E2-8C (hex) Microsoft Corporation
74E28C (base 16) Microsoft Corporation
1 Microsoft Way
Redmond Washington 98052
FI

7C-82-74 (hex) Shenzhen Hikeen Technology CO.,LTD
7C8274 (base 16) Shenzhen Hikeen Technology CO.,LTD
15rd floor,unit1,Building A of Kexing Science Park
Shenzhen GuangDong 518057
CN

94-D4-17 (hex) GPI KOREA INC.
94D417 (base 16) GPI KOREA INC.
Daebang Triplaon B-Dong 201
Goyang-Si Kyeonggi-Do 410-704
KR

F0-79-59 (hex) ASUSTek COMPUTER INC.
F07959 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan
112
TW

70-4E-66 (hex) SHENZHEN FAST TECHNOLOGIES CO.,LTD
704E66 (base 16) SHENZHEN FAST TECHNOLOGIES CO.,LTD
Room 202,Building No.5,Section 30,No.2 of Kefa Road,Nanshan District,Shenzhen,P.R.China
Shenzhen Guangdong 518057
CN

24-4B-81 (hex) Samsung Electronics Co.,Ltd
244B81 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D8-55-A3 (hex) zte corporation
D855A3 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

38-D8-2F (hex) zte corporation
38D82F (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

78-58-F3 (hex) Vachen Co.,Ltd
7858F3 (base 16) Vachen Co.,Ltd
Rm1206, Hanyang Bldg, 18, Gukhoe-daero 70-gil, Yeongdeungpo-gu
Seoul Seoul 150-748
KR

10-2C-83 (hex) XIMEA
102C83 (base 16) XIMEA
Lesna 52
Marianka
SK 90033
SK

70-9C-8F (hex) Nero AG
709C8F (base 16) Nero AG
Rueppurrer Str. 1A
Karlsruhe BW 76137
DE

28-84-FA (hex) SHARP Corporation
2884FA (base 16) SHARP Corporation
1 Takumi-cho, Sakai-ku
Sakai City Osaka 590-8522
JP

30-0E-E3 (hex) Aquantia Corporation
300EE3 (base 16) Aquantia Corporation
700 Tasman Drive
Milpitas CA 95035
US

60-D9-A0 (hex) Lenovo Mobile Communication Technology Ltd.
60D9A0 (base 16) Lenovo Mobile Communication Technology Ltd.
No.999, Qishan North 2nd Road, Information & Optoelectronics Park,
Xiamen Fujian 361006

84-4B-B7 (hex) Beijing Sankuai Online Technology Co.,Ltd
844BB7 (base 16) Beijing Sankuai Online Technology Co.,Ltd
Block F&G, Wangjing International R & D Park,
Chaoyang District BEIJING 100102
CN

68-F0-BC (hex) Shenzhen LiWiFi Technology Co., Ltd
68F0BC (base 16) Shenzhen LiWiFi Technology Co., Ltd
No.7, Xinxi
Road, Hi-Tech Park (North Zone)
Shenzhen Guangdong 518057
CN

60-AF-6D (hex) Samsung Electronics Co.,Ltd
60AF6D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B8-5A-73 (hex) Samsung Electronics Co.,Ltd
B85A73 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

3C-1E-04 (hex) D-Link International
3C1E04 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

18-F1-45 (hex) NetComm Wireless Limited
18F145 (base 16) NetComm Wireless Limited
Level 2, 18-20 Orion Road
Lane Cove Sydney 2066
AU

E0-8E-3C (hex) Aztech Electronics Pte Ltd
E08E3C (base 16) Aztech Electronics Pte Ltd
31, Ubi Road 1
Singapore Singapore 408694
SG

68-B9-83 (hex) b-plus GmbH
68B983 (base 16) b-plus GmbH
Ulrichsberger Str. 17

Deggendorf Bavaria 94469
DE

50-AD-D5
(hex) Dynalec Corporation
50ADD5 (base 16) Dynalec Corporation
87 West Main Street
Sodus NY 14551
US

B0-45-19 (hex) TCT mobile ltd
B04519 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

78-B3-B9 (hex) ShangHai sunup lighting CO.,LTD
78B3B9 (base 16) ShangHai sunup lighting CO.,LTD
RM2508,Building 2,1077# Zu Chong Zhi Rd,Zhang Jiang Hi-Tech Park,Pudong New Area,ShangHai,China
shanghai shanghai 201203
CN

04-C0-9C (hex) Tellabs Inc.
04C09C (base 16) Tellabs Inc.
1415 W. Diehl Road
Naperville Illinois 60563
US

AC-AB-BF (hex) AthenTek Inc.
ACABBF (base 16) AthenTek Inc.
8F., No.356, Sec. 1, Neihu Rd., Neihu Dist.,
Taipei City Taiwan 114
TW

98-1D-FA (hex) Samsung Electronics Co.,Ltd
981DFA (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

18-68-82
(hex) Beward R&D Co., Ltd.
186882 (base 16) Beward R&D Co., Ltd.
Molokova street 16, apt.355
Krasnoyarsk Krasnoyarsk region 660118
RU

74-29-AF (hex) Hon Hai Precision Ind. Co.,Ltd.

7429AF (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

40-EA-CE (hex) FOUNDER BROADBAND NETWORK SERVICE CO.,LTD
40EACE (base 16) FOUNDER BROADBAND NETWORK SERVICE CO.,LTD
5F,Tower B,Beifa Plaza,No.16 Building
Haisdian District Beijing 100088
CN

84-8E-DF (hex) Sony Corporation
848EDF (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

3C-1A-0F (hex) ClearSky Data
3C1A0F (base 16) ClearSky Data
99 Summer Street
Boston MA 02110
US

D8-8D-5C (hex) Elentec
D88D5C (base 16) Elentec
Dongtangiheung-ro 64-3
Gyeonggi-do Hwaseong-si/Dongtan-myeon 445-812
KR

EC-80-09 (hex) NovaSparks
EC8009 (base 16) NovaSparks
12
rue de Chatillon
Paris Ile de France 75014
FR

E8-CC-18 (hex) D-Link International
E8CC18 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

B0-91-37 (hex) ISis ImageStream Internet Solutions, Inc
B09137 (base 16) ISis ImageStream Internet Solutions, Inc
4374 FM 1518
Selma TX 78154
US

94-8E-89 (hex) INDUSTRIAS UNIDAS SA DE CV
948E89 (base 16) INDUSTRIAS UNIDAS SA DE CV
CARRETERA PANAMERICANA
PASTEJE JOCOTITLAN ESTADO DE MEXICO 50700
MX

24-97-ED (hex) Techvision Intelligent Technology Limited
2497ED (base 16) Techvision Intelligent Technology Limited
Room 7006B, Tianxia IC Industry Building,
Shenzhen Guangdong 518052
CN

A4-9D-49 (hex) Ketra, Inc.
A49D49 (base 16) Ketra, Inc.
3815 S. Capital of Texas Hwy
Austin TX 78704
US

8C-05-51 (hex) Koubachi AG
8C0551 (base 16) Koubachi AG
Technoparkstrasse
1
Zurich Zurich 8005
CH

D8-97-BA (hex) PEGATRON CORPORATION
D897BA (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

A8-D8-8A (hex) Wyconn
A8D88A (base 16) Wyconn
Rennweg 97-99
Vienna 1030
AT

2C-50-89 (hex) Shenzhen Kaixuan Visual Technology Co.,Limited
2C5089 (base 16) Shenzhen Kaixuan Visual Technology Co.,Limited
No.19th Xifu Road, Hongxing Community
Shenzhen Guangdong 518000
CN

20-76-93 (hex) Lenovo (Beijing) Limited.
207693 (base 16) Lenovo (Beijing) Limited.
No.6 Chuang Ye Road Shangdi Information Industry Base,
Beijing 100085
CN

60-04-17 (hex) POSBANK CO.,LTD
600417 (base 16) POSBANK CO.,LTD
Room 805-808, New T Castle B/D, 429-1
Seoul 153-803
KR

C0-38-96 (hex) Hon Hai Precision Ind. Co.,Ltd.
C03896 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing
Chongqing 401332
CN

08-46-56 (hex) VEO-LABS
084656 (base 16) VEO-LABS
14 rue du Patis Tatelin
RENNES Bretagne 35700
FR

EC-3C-5A (hex) SHEN ZHEN HENG SHENG HUI DIGITAL TECHNOLOGY CO.,LTD
EC3C5A (base 16) SHEN ZHEN HENG SHENG HUI DIGITAL TECHNOLOGY CO.,LTD
5A 6FLOOR, BLOCK C12, FUYUAN INDUSTRIAL AREA, ZHOU SHI ROAD,
SHENZHEN GUANGDONG 518102
CN

44-88-CB (hex) Camco Technologies NV
4488CB (base 16) Camco Technologies NV
Technologielaan 13
Heverlee VB 3001
BE

50-29-4D (hex) NANJING IOT SENSOR TECHNOLOGY CO,LTD
50294D (base 16) NANJING IOT SENSOR TECHNOLOGY CO,LTD
ROOM 422 NO.420 ZHONGHUA ROAD QINHUAI DISTRICT NANJING CITY
Nangjing jiangsu 210000
CN

0C-CF-D1 (hex) SPRINGWAVE Co., Ltd
0CCFD1 (base 16) SPRINGWAVE Co., Ltd
#B-703,U-space 1-danji,670 Sampyeong-dong Bundang-gu
Seongnam-si Gyeonggi-do 463-400
KR

1C-7E-51 (hex) 3bumen.com
1C7E51 (base 16) 3bumen.com
11/F

FRONT BLK HANG LOK BLDG
HONG KONG KONG KONG N/A
HK

68-72-DC (hex) CETORY.TV Company Limited
6872DC (base 16) CETORY.TV Company Limited
Building C-1601, Tiley Central Plaza
Shenzhen Guangdong 518054
CN

00-AE-FA (hex) Murata Manufacturing Co., Ltd.
00AEFA (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

74-BA-DB (hex) Longconn Electornics(shenzhen)Co.,Ltd
74BADB (base 16) Longconn Electornics(shenzhen)Co.,Ltd
Building D12,n 30,Xingye One Road,Fenghuang First Industrial Zone,Fuyong Street,Bao an District,Shenzhen,Guangdong Province.
shenzhen guangdong 518000
CN

F8-24-41 (hex) Yeelink
F82441 (base 16) Yeelink
F10-B4, Bldg. B, International Innovation Park
Qingdao Shandong 266101
CN

10-8A-1B (hex) RAONIX Inc.
108A1B (base 16) RAONIX Inc.
Changeop-Center 710, Shin-Gu Univ. Gwangmyeong-ro 377, Jungwon-gu
Seongnam-si
Gyeonggi-do 462-743
KR

B8-F3-17 (hex) iSun Smasher Communications Private Limited
B8F317 (base 16) iSun Smasher Communications Private Limited
No. 826, Ferns Paradise, 2nd Street,
Bangalore Karnataka 560037
IN

8C-F8-13 (hex) ORANGE POLSKA
8CF813 (base 16) ORANGE POLSKA
AL.JEROZOLIMSKIE 160
WARSAW MASOVIA 02-326
PL

6C-BF-B5 (hex) Noon Technology Co., Ltd
6CBFB5 (base 16) Noon Technology Co., Ltd
Building C, Zhangkeng Industrial Park, Minzhi
Shenzhen GuangDong 518131
CN

84-18-26 (hex) Osram GmbH
841826 (base 16) Osram GmbH
Marcel Breuer Str. 6
Munich Bavaria 80807
DE

F8-E9-03 (hex) D-Link International
F8E903 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

E8-96-06 (hex) testo Instruments (Shenzhen) Co., Ltd.
E89606 (base 16) testo Instruments (Shenzhen) Co., Ltd.
China Merchants Guangming Science
& Technology Park,
Guangming New District, Shenzhen Guangdong 518107
CN

30-77-CB (hex) Maike Industry(Shenzhen)CO.,LTD
3077CB (base 16) Maike Industry(Shenzhen)CO.,LTD
Maike Industrial Garden, Sanwei village,
Shenzhen Guangdong 518100
CN

90-9F-33 (hex) EFM Networks
909F33 (base 16) EFM Networks
6F, Benposra II 1197-1 Bojeong Giheung Gu
Yong In Kyunggi do 446913
KR

68-F0-6D (hex) ALONG INDUSTRIAL CO., LIMITED
68F06D (base 16) ALONG INDUSTRIAL CO., LIMITED
FLAT/RM,3 11/F, HUNG TO INDUSTRIAL BUILDING
HONG KONG
HK

94-54-93 (hex) Rigado, LLC
945493 (base 16) Rigado, LLC
2601 25th ST SE, STE 200
Salem OR 97302
US

F4-28-53 (hex) Zioncom Electronics (Shenzhen) Ltd.
F42853 (base 16) Zioncom Electronics (Shenzhen) Ltd.
A1&A2 Building,Lantian Technology Park, Xinyu Road, Xingqiao Henggang Block, Shajing Street, Baoan District
Shenzhen Guangdong 518000
CN

1C-9C-26
(hex) Zoovel Technologies
1C9C26 (base 16) Zoovel Technologies
Paseo de la Castellana 259C
Madrid 28046
ES

D4-EC-86 (hex) LinkedHope Intelligent Technologies Co., Ltd
D4EC86 (base 16) LinkedHope Intelligent Technologies Co., Ltd
2nd Floor,Building 1, Science Park,
Beijing Beijing 100070
CN

04-67-85 (hex) scemtec Hard- und Software fuer Mess- und Steuerungstechnik GmbH
046785 (base 16) scemtec Hard- und Software fuer Mess- und Steuerungstechnik GmbH
Gewerbeparkstr. 20
Reichshof-Wehnrath NRW 51580

D0-FA-1D (hex) Qihoo 360 Technology Co.,Ltd
D0FA1D (base 16) Qihoo 360 Technology Co.,Ltd
Building 26 Haoyuan
Chaoyang District Beijing 100015
CN

84-32-EA (hex) ANHUI WANZTEN P&T CO., LTD
8432EA (base 16) ANHUI WANZTEN P&T CO., LTD
9F Building B1 HUAYI science Park
Hefei Anhui Province 230088
CN

E0-1D-38 (hex) Beijing HuaqinWorld Technology Co.,Ltd
E01D38 (base 16) Beijing
HuaqinWorld Technology Co.,Ltd
30F,Beijing Silver Tower
Chao Yang Dist Beijing 100027
CN

E4-7F-B2 (hex) FUJITSU LIMITED
E47FB2 (base 16) FUJITSU LIMITED
403, Kosugi-cho 1-chome, Nakahara-ku

Kawasaki Kanagawa 211-0063
JP

FC-9F-E1 (hex) CONWIN.Tech. Ltd
FC9FE1 (base 16) CONWIN.Tech. Ltd
4D,Tianxia IC Bldg,115 Yiyuan road, Nanshan District,Shenzhen,Guangdong,P.P.China
Shenzhen Guangdong 518000
CN

A8-1B-5D (hex) Foxtel Management Pty Ltd
A81B5D (base 16) Foxtel Management Pty Ltd
Building 3, Level 3
NORTH RYDE NSW 2113
AU

AC-11-D3 (hex) Suzhou HOTEK Video Technology Co. Ltd
AC11D3 (base 16) Suzhou HOTEK Video Technology Co. Ltd
No.78,Keling Road,Suzhou National new and hi-tech industrial Development zone
Suzhou Jiangsu 215200
CN

FC-6D-C0 (hex) BME CORPORATION
FC6DC0 (base 16) BME CORPORATION
147-2
Kawagoe-shi Saitama 350-0845
JP

24-D1-3F (hex) MEXUS
CO.,LTD
24D13F (base 16) MEXUS CO.,LTD
1512, Seoulsup IT Valley,
Seoul Seoul 133-822
KR

50-50-65 (hex) TAKT Corporation
505065 (base 16) TAKT Corporation
2762-8
Chino-City Nagano-Pref. 391-0001
JP

40-C6-2A (hex) Shanghai Jing Ren Electronic Technology Co., Ltd.
40C62A (base 16) Shanghai Jing Ren Electronic Technology Co., Ltd.
GUI Qing Road 7 No. 3 building G7 software base A District 208 room
Xuhui District Shanghai City 200233
CN

E8-15-0E (hex) Nokia Corporation
E8150E (base 16) Nokia Corporation

Joensuunkatu 7
Salo N.A. 24101
FI

B8-9B-E4 (hex) ABB Power Systems Power Generation
B89BE4 (base 16) ABB Power Systems Power Generation
29801 Euclid Ave
Wickliffe Ohio 44092
US

78-24-AF (hex) ASUSTek COMPUTER INC.
7824AF (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

10-2F-6B (hex) Microsoft Corporation
102F6B
(base 16) Microsoft Corporation
1 Microsoft Way
Redmond Washington 98052
FI

0C-AC-05 (hex) Unitend Technologies Inc.
0CAC05 (base 16) Unitend Technologies Inc.
No.6 Nanda'an Hutong, Xizhimeng st
Zicheng District Beijing 100035
CN

80-AD-67 (hex) Kasda Networks Inc
80AD67 (base 16) Kasda Networks Inc
B-31 Building, Tanglang Industry Zone, Xili, Nanshan District
Shenzhen Guangdong 518055
CN

30-B5-F1 (hex) Aitexin Technology Co., Ltd
30B5F1 (base 16) Aitexin Technology Co., Ltd
1210 PDAY research center streer 2
Peiking 100190
CN

B0-10-41 (hex) Hon Hai Precision Ind. Co.,Ltd.
B01041 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

3C-AA-3F (hex) iKey, Ltd.

3CAA3F (base 16) iKey, Ltd.
2621 Ridgepoint Drive
Austin Texas 78754
US

0C-38-3E (hex) Fanvil Technology Co., Ltd.
0C383E (base 16) Fanvil
Technology Co., Ltd.
3F, Block A, Gaoxinqi Building, Anhua Industrial Park
Shenzhen Guangdong 518101
CN

60-CD-A9 (hex) Abloomy
60CDA9 (base 16) Abloomy
Room 501 ,CTS Building,No 1 Beishatan Chaoyang District
BeiJing 100083
CN

B8-AD-3E (hex) BLUECOM
B8AD3E (base 16) BLUECOM
116, Venture-ro, Yeonsu-gu,
Incheon 406-840
KR

18-30-09 (hex) Woojin Industrial Systems Co., Ltd.
183009 (base 16) Woojin Industrial Systems Co., Ltd.
95, Sari-ro, Sari-myeon
Goesan-gun Chungcheongbuk-do 367-822
KR

74-DB-D1 (hex) Ebay Inc
74DBD1 (base 16) Ebay Inc
2211 N. First St
San Jose Ca 95131
US

DC-53-7C (hex) Compal Broadband Networks, Inc.
DC537C (base 16) Compal Broadband Networks, Inc.
13F., No.1, Taiyuan 1st St.
Zhubei City Hsinchu County 30265
TW

44-A6-E5 (hex) THINKING TECHNOLOGY CO.,LTD
44A6E5 (base 16) THINKING TECHNOLOGY CO.,LTD
The 6th Floor,Gate No. 3
of Huaqiang Logistics Building
Nanshan, Shenzhen Guangdong 518055
CN

90-DA-6A (hex) FOCUS H&S Co., Ltd.
90DA6A (base 16) FOCUS H&S Co., Ltd.
#113, Doosan Venture Digm, 126-1
Anyang Gyeonggi-Do 431-755
KR

4C-6E-6E (hex) Comnect Technology CO.,LTD
4C6E6E (base 16) Comnect Technology CO.,LTD
7-402, Xinyuan Industrial Park, No.61
Shenzhen Guangdong 518055
CN

8C-33-57 (hex) HiteVision Digital Media Technology Co.,Ltd.
8C3357 (base 16) HiteVision Digital Media Technology Co.,Ltd.
1st building,Honghui Industrial Park,LiuXian
Shenzhen Guangdong 510008
CN

C4-42-02 (hex) Samsung Electronics Co.,Ltd
C44202 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B4-AE-6F (hex) Circle Reliance, Inc DBA Cranberry Networks
B4AE6F (base 16) Circle Reliance, Inc DBA Cranberry Networks
921 Rose Avenue
Menlo Park CA 94025
US

A4-5D-A1 (hex) ADB Broadband
Italia
A45DA1 (base 16) ADB Broadband Italia
VIALE SARCA 336
MILANO ITALY 20126

4C-39-09 (hex) HPL Electric & Power Private Limited
4C3909 (base 16) HPL Electric & Power Private Limited
133, Pace City-1, Sec-37
Gurgaon Haryana 122001
IN

90-7E-BA (hex) UTEK TECHNOLOGY (SHENZHEN) CO.,LTD
907EBA (base 16) UTEK TECHNOLOGY (SHENZHEN) CO.,LTD
6F, C Building JiaAn Industrial Zone, 72# district of Baoan, ShenZhen, China
SHENZHEN Guangdong Province 518101

CN

A0-02-DC (hex) Amazon Technologies Inc.
A002DC (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

84-94-8C (hex) Hitron Technologies. Inc
84948C (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

A8-F7-E0 (hex) PLANET Technology Corporation
A8F7E0 (base 16) PLANET Technology Corporation
11F, No. 96, Min Quan Road,
New
Taipei City 22341
TW

44-86-C1 (hex) Siemens Low Voltage & Products
4486C1 (base 16) Siemens Low Voltage & Products
5400 Triangle Parkway
Norcross GA 30092
US

40-45-DA (hex) Spreadtrum Communications (Shanghai) Co., Ltd.
4045DA (base 16) Spreadtrum Communications (Shanghai) Co., Ltd.
Building 1, Spreadtrum Center, No.2288, Zuchongzhi Rd
Shanghai 201203

54-2A-A2 (hex) Alpha Networks Inc.
542AA2 (base 16) Alpha Networks Inc.
No.8 Li-shing 7th Rd., Science-based Industrial Park, Hsinchu, Taiwan, R.O.C
Hsinchu Taiwan 300
TW

6C-19-8F (hex) D-Link International
6C198F (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

C8-FF-77 (hex) Dyson Limited
C8FF77 (base 16) Dyson Limited
Tetbury Hill

Malmesbury Wiltshire SN16 0RP
GB

B4-9E-AC (hex) Imagik Int'l Corp
B49EAC (base 16) Imagik Int'l Corp
2299 SW 37 th
Ave
Miami Florida 33145
US

E0-CB-EE (hex) Samsung Electronics Co.,Ltd
E0CBEE (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

10-30-47 (hex) Samsung Electronics Co.,Ltd
103047 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

5C-2E-59 (hex) Samsung Electronics Co.,Ltd
5C2E59 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F8-84-F2 (hex) Samsung Electronics Co.,Ltd
F884F2 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B0-75-4D (hex) Nokia
B0754D (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

54-B7-53 (hex) Hunan Fenghui Yinjia Science And Technology Co.,Ltd
54B753 (base 16) Hunan Fenghui Yinjia Science And Technology Co.,Ltd
No.15 Lutian Road
Changsha Hunan 410205
CN

34-51-AA (hex) JID GLOBAL
3451AA

(base 16) JID GLOBAL
211, Biz Plus Suwon 2F Chungho Bldg, 17 363Road, Susung-ro
SUWON Gyeonggi-do 440-846
KR

98-BE-94 (hex) IBM
98BE94 (base 16) IBM
3039 E Cornwallis Rd
Research Triangle Park NC 27709
US

C4-6B-B4 (hex) myIDkey
C46BB4 (base 16) myIDkey
65 Enterprise
Aliso Viejo CA 92656
US

CC-07-E4 (hex) Lenovo Mobile Communication Technology Ltd.
CC07E4 (base 16) Lenovo Mobile Communication Technology Ltd.
No.999, Qishan North 2nd Road, Information & Optoelectronics Park, Torch Hi-tech Industry Development Zone, Xiamen, P.R.China
Xiamen Fujian 361006
US

08-74-F6 (hex) Winterhalter Gastronom GmbH
0874F6 (base 16) Winterhalter Gastronom GmbH
Tettnanger Straße 72
Meckenbeuren Baden-Württemberg 88074
DE

0C-63-FC (hex) Nanjing Signway Technology Co., Ltd
0C63FC (base 16) Nanjing Signway Technology Co., Ltd
Rm 1001,10/F,28 Ningshuang Rd,
Nanjing Jiangsu
210012
CN

D4-E0-8E (hex) ValueHD Corporation
D4E08E (base 16) ValueHD Corporation
Xinwei Xili, Nanshan District, Shenzhen City Industrial Zone, Shiling 8, 3rd Floor, North
Shenzhen Guangdong 518055
CN

C8-9F-1D (hex) SHENZHEN COMMUNICATION TECHNOLOGIES CO.,LTD
C89F1D (base 16) SHENZHEN COMMUNICATION TECHNOLOGIES CO.,LTD
NO.6 QINGNING ROAD,CAIHUANG INDUSTRY PARK,
SHENZHEN GUANGDONG 518109
CN

14-3D-F2 (hex) Beijing Shidai Hongyuan Network Communication Co.,Ltd
143DF2 (base 16) Beijing Shidai Hongyuan Network Communication Co.,Ltd
#505, 5F, Tower 3
Beijing 100000
CN

2C-39-C1 (hex) Ciena Corporation
2C39C1 (base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

54-EE-75 (hex) Wistron InfoComm(Kunshan)Co.,Ltd.
54EE75 (base 16) Wistron InfoComm(Kunshan)Co.,Ltd.
168# First Avenue,Kunshan Integrated Free Trade Zone,Kunshan,Jiangsu,China
Kunshan Jiangsu 215300
CN

AC-B8-59
(hex) Uniband Electronic Corp,
ACB859 (base 16) Uniband Electronic Corp,
6F-1 No. Dongguang Rd.,
Hsinchu 300 300
TW

88-B1-E1 (hex) Mojo Networks, Inc.
88B1E1 (base 16) Mojo Networks, Inc.
339 N.Bernardo Ave
Mountain View CA 94043
US

D8-49-2F (hex) CANON INC.
D8492F (base 16) CANON INC.
30-2 Shimomaruko 3-chome,
Ohta-ku Tokyo 146-8501
JP

80-0E-24 (hex) ForgetBox
800E24 (base 16) ForgetBox
61 rue de Sèvres
Ville d'Avray IDF 92140
FR

18-FF-2E (hex) Shenzhen Rui Ying Da Technology Co., Ltd
18FF2E (base 16) Shenzhen Rui Ying Da Technology Co., Ltd
KaiXinda Electronic Science and Technology Park, Zhoushi Road 49,Shiyan Street,Baoan District,ShenZhen,China
shenzhen guangdong 518108

CN

84-72-07 (hex) I&C Technology
847207 (base 16) I&C Technology
24,Pangyo-ro 255beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, 463-400,Korea
Seongnam-si Gyeonggi-do 463-400,Korea
US

3C-25-D7
(hex) Nokia Corporation
3C25D7 (base 16) Nokia Corporation
Joensuunkatu 7
Salo N.A. 24101
FI

30-A8-DB (hex) Sony Corporation
30A8DB (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

20-EA-C7 (hex) SHENZHEN RIOPINE ELECTRONICS CO., LTD
20EAC7 (base 16) SHENZHEN RIOPINE ELECTRONICS CO., LTD
ROOM1002~1004, BaoYuan HuaFeng Headquarters' Business Building, Xixiang Avenue (west) , Bao'an District
Shenzhen Guangdong 518000
CN

64-B3-70 (hex) PowerComm Solutions LLC
64B370 (base 16) PowerComm Solutions LLC
15 Minneakoning Rd. Suite 311
Flemington NJ 08822
US

5C-F5-0D (hex) Institute of microelectronic applications
5CF50D (base 16) Institute of microelectronic applications
Na Valentince 1003/1
Praha 15000
CZ

74-9C-52 (hex) Huizhou Desay SV Automotive Co., Ltd.
749C52 (base 16) Huizhou Desay SV Automotive Co., Ltd.
103, Hechang 5th
Road West,
Huizhou Guangdong 516006
CN

10-DE-E4 (hex) automationNEXT GmbH
10DEE4 (base 16) automationNEXT GmbH

Millennium Park 4
Lustenau Vorarlberg 6890
AT

F0-3A-4B (hex) Bloombase, Inc.
F03A4B (base 16) Bloombase, Inc.
1300 Island Dr Ste 103
Redwood City CA 94065
US

0C-4F-5A (hex) ASA-RT s.r.l.
0C4F5A (base 16) ASA-RT s.r.l.
Strada del Lionetto 16/a
Torino To 10146
IT

CC-A6-14 (hex) AIFA TECHNOLOGY CORP.
CCA614 (base 16) AIFA TECHNOLOGY CORP.
1F., No.230, Sec. 2, Bade Rd., Fongshan Dist.
Kaohsiung City Taiwan 83053
TW

90-F1-B0 (hex) Hangzhou Anheng Info&Tech CO.,LTD
90F1B0 (base 16) Hangzhou Anheng Info&Tech CO.,LTD
15F Zhongcai Bldg,#68 Tonghe Rd
Hangzhou Zhejiang 310051
CN

90-DB-46 (hex) E-LEAD ELECTRONIC CO., LTD
90DB46 (base 16) E-LEAD ELECTRONIC CO., LTD
NO.37, GUNGDUNG 1ST RD.
SHENGANG SHIANG CHANGHUA 50971
TW

54-D1-63 (hex) MAX-TECH,INC
54D163
(base 16) MAX-TECH,INC
2F, 26, 2gil, Dujeonggongdan
Cheonan Chungnam 331957
KR

48-B5-A7 (hex) Glory Horse Industries Ltd.
48B5A7 (base 16) Glory Horse Industries Ltd.
Woekshop 8, 4/F., World Wide Industrial Centre,
Shatin, N.T. HKG
HK

7C-E4-AA (hex) Private

7CE4AA (base 16) Private

08-3F-3E (hex) WSH GmbH
083F3E (base 16) WSH GmbH
Koelner Str. 58a
Gummersbach NRW 51645
DE

18-20-A6 (hex) Sage Co., Ltd.
1820A6 (base 16) Sage Co., Ltd.
2-24 Sumiyoshicho, Naka-ku
Yokohama-shi Kanagawa 231-0013
JP

4C-8B-30 (hex) Actiontec Electronics, Inc
4C8B30 (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

08-05-CD (hex) DongGuang EnMai Electronic Product Co.Ltd.
0805CD (base 16) DongGuang EnMai Electronic Product Co.Ltd.
701 7th Floor,YiFeng Building,
DongGuang GuangDong Province 523843
CN

2C-07-3C (hex) DEVLINE
LIMITED
2C073C (base 16) DEVLINE LIMITED
FLAT/RM A9,9/F SILVERCORP INT TOWER
HONGKONG 999077
CN

7C-1A-03 (hex) 8Locations Co., Ltd.
7C1A03 (base 16) 8Locations Co., Ltd.
1F, No. 123, Chenggong 2rd Street
Zhube City Hsinchu 302
TW

34-4F-5C (hex) R&M AG
344F5C (base 16) R&M AG
Binzstrasse 32
Wetzikon Zurich 8620
CH

D4-22-4E (hex) Alcatel Lucent
D4224E (base 16) Alcatel Lucent
Via Energy Park, 14

Vimercate MB 20871
IT

9C-86-DA (hex) Phoenix Geophysics Ltd.
9C86DA (base 16) Phoenix Geophysics Ltd.
3781 Victoria Park Ave.
Toronto ON M1W 3K5
CA

60-47-D4 (hex) FORICS Electronic Technology Co., Ltd.
6047D4 (base 16) FORICS Electronic Technology Co., Ltd.
BLD 2A, No 1588, Lianhang Rd
Shanghai 201112
CN

FC-F8-B7 (hex) TRONTEQ Electronic
FCF8B7 (base 16) TRONTEQ Electronic
Siemensstrasse 22
Reutlingen Baden Wuerttemberg 72766
DE

30-F4-2F
(hex) ESP
30F42F (base 16) ESP
126-1 Pyeongchon-dong, Dongan-gu
Anyang-si Gyeonggi-do 431-755
KR

70-4E-01 (hex) KWANGWON TECH CO., LTD.
704E01 (base 16) KWANGWON TECH CO., LTD.
D-401, Digital-Empire Bldg., 980-3
Suwon Gyeonggi-Do 443-702
KR

74-6A-8F (hex) VS Vision Systems GmbH
746A8F (base 16) VS Vision Systems GmbH
Aspelohe 27A
Norderstedt Schleswig-Holstein 22848
DE

54-A3-1B (hex) Shenzhen Linkworld Technology Co,.LTD
54A31B (base 16) Shenzhen Linkworld Technology Co,.LTD
Room 667-675 , sixth floor ,
Shenzhen Guangdong 518055
CN

CC-39-8C (hex) Shiningtek
CC398C (base 16) Shiningtek

No. 53, Nankeng 3 St
Hsinchu 30841
TW

6C-5F-1C (hex) Lenovo Mobile Communication Technology Ltd.
6C5F1C (base 16) Lenovo Mobile Communication Technology Ltd.
No.999, Qishan North 2nd Road,
Xiamen 361000 Fujian
US

C0-C5-69 (hex) SHANGHAI LYNUC CNC TECHNOLOGY CO.,LTD
C0C569 (base 16) SHANGHAI LYNUC CNC TECHNOLOGY CO.,LTD
Building 3,No.25 Cangwu Rd
Shanghai 200233
CN

C4-C0-AE (hex) MIDORI ELECTRONIC CO., LTD.
C4C0AE (base 16) MIDORI ELECTRONIC CO., LTD.
397
Chikuma Nagano 389-0804
JP

AC-C5-95 (hex) Graphite Systems
ACC595 (base 16) Graphite Systems
2037 Landings Drive
Mountain View California 94043
US

7C-E1-FF (hex) Computer Performance, Inc. DBA Digital Loggers, Inc.
7CE1FF (base 16) Computer Performance, Inc. DBA Digital Loggers, Inc.
2695 Walsh Avenue
Santa Clara CA 95051
US

D8-15-0D (hex) TP-LINK TECHNOLOGIES CO.,LTD.
D8150D (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

58-50-AB (hex) TLS Corporation
5850AB (base 16) TLS Corporation
1241 Superior Ave.
Cleveland OH 44114
US

CC-85-6C

(hex) SHENZHEN MDK DIGITAL TECHNOLOGY CO.,LTD
CC856C (base 16) SHENZHEN MDK DIGITAL TECHNOLOGY CO.,LTD
Xin fengze industrial park,shangnan east road
SHENZHEN GUANGDONG 518101
CN

D8-EE-78 (hex) Moog Protokraft
D8EE78 (base 16) Moog Protokraft
4545 W Stone Dr Bldg 135
Kingsport TN 37660
US

48-3D-32 (hex) Syscor Controls & Automation
483D32 (base 16) Syscor Controls & Automation
201-60 Bastion Sq
Victoria BC V8W 1J2
CA

A0-E4-53 (hex) Sony Corporation
A0E453 (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

40-4A-18 (hex) Addrek Smart Solutions
404A18 (base 16) Addrek Smart Solutions
Al Gharrafa Thani Bin Jassim St
Doha
QA

C4-29-1D (hex) KLEMSAN ELEKTRIK ELEKTRONIK SAN.VE TIC.AS.
C4291D (base 16) KLEMSAN ELEKTRIK ELEKTRONIK SAN.VE TIC.AS.
kemalpasa yolu 3.km KEMALPASA 35170
izmir TURKIYE -- 35170
TR

24-11-48 (hex) Entropix,
LLC
241148 (base 16) Entropix, LLC
100 Rawson Road
Victor New York 14564
US

4C-D7-B6 (hex) Helmer Scientific
4CD7B6 (base 16) Helmer Scientific
14400 Bergen Boulevard
Noblesville Indiana 46060
US

84-25-A4 (hex) Tariox Limited
8425A4 (base 16) Tariox Limited
173 Highway 53
Cathcart Ontario N0E 1B0
CA

2C-95-7F (hex) zte corporation
2C957F (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

3C-0C-48 (hex) Servergy, Inc.
3C0C48 (base 16) Servergy, Inc.
1700 N. Redbud
McKinney TEXAS 75069
US

C4-45-EC (hex) Shanghai Yali Electron Co.,LTD
C445EC (base 16) Shanghai Yali Electron Co.,LTD
Room 1-607
Shanghai Shanghai 201100
US

E0-E6-31 (hex) SNB TECHNOLOGIES LIMITED
E0E631 (base 16) SNB TECHNOLOGIES LIMITED
Rm 303, Building #13,
Long Gang district, ShenZhen GuangDong 518000
CN

F8-57-2E
(hex) Core Brands, LLC
F8572E (base 16) Core Brands, LLC
5919 Sea Otter Place
Carlsbad CA 92010
US

78-B5-D2 (hex) Ever Treasure Industrial Limited
78B5D2 (base 16) Ever Treasure Industrial Limited
15A Tung Lee Commercial Building
Sheung Wan 852
HK

1C-C1-1A (hex) Wavetronix
1CC11A (base 16) Wavetronix
78 East 1700 South
Provo UT 84606

US

90-02-8A (hex) Shenzhen Shidean Legrand Electronic Products Co.,Ltd
90028A (base 16) Shenzhen Shidean Legrand Electronic Products Co.,Ltd
Block39,Shahe Industrial Zone Baishizhou
Guangdong 518053
CN

CC-74-98 (hex) Filmetrics Inc.
CC7498 (base 16) Filmetrics Inc.
3560 Dunhill Street, #100
San Diego CA 92121
US

BC-EE-7B (hex) ASUSTek COMPUTER INC.
BCEE7B (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

34-13-A8 (hex) Mediplan Limited
3413A8 (base 16) Mediplan
Limited
245 Sheffield Road
Sheffield South Yorkshire S13 9ZD
GB

FC-09-D8 (hex) ACTEON Group
FC09D8 (base 16) ACTEON Group
ZAC Athelia IV
La Ciotat France 13705
FR

74-3E-CB (hex) Gentrice tech
743ECB (base 16) Gentrice tech
15F No.738-5 JhengJhong Rd
New Taipei city 235
TW

98-FF-6A (hex) OTEC(Shanghai)Technology Co.,Ltd.
98FF6A (base 16) OTEC(Shanghai)Technology Co.,Ltd.
13th Floor,Building 2
Shanghai 200235
CN

7C-CD-11 (hex) MS-Magnet
7CCD11 (base 16) MS-Magnet
Parchevich 42

Sofia 1000
BG

BC-1A-67 (hex) YF Technology Co., Ltd
BC1A67 (base 16) YF Technology Co., Ltd
No.62,South Fumin Road,
Dongguang Guangdong 523773
CN

AC-6B-AC (hex) Jenny Science AG
AC6BAC (base 16) Jenny Science AG
Sandblatte 7a
Rain Luzern 6026
CH

7C-97-63 (hex) Openmatics s.r.o.
7C9763 (base 16) Openmatics s.r.o.
Podebradova 2842/1
Pilsen Tschechien
30100
CZ

48-A2-B7 (hex) Kodofon JSC
48A2B7 (base 16) Kodofon JSC
97 Moskovskyi pr.
Voronezh 394077
RU

04-44-A1 (hex) TELECON GALICIA,S.A.
0444A1 (base 16) TELECON GALICIA,S.A.
AVENIDA DE NOSTIAN
A CORUNA 15008
ES

20-C6-0D (hex) Shanghai annijie Information technology Co.,LTD
20C60D (base 16) Shanghai annijie Information technology Co.,LTD
Room605,NO.9,Lane 777
Shanghai 200070
CN

E0-C8-6A (hex) SHENZHEN TW-SCIE Co., Ltd
E0C86A (base 16) SHENZHEN TW-SCIE Co., Ltd
816# DongMing Building MinKang Road
Shenzhen Guangdong 518000
CN

18-79-A2 (hex) GMJ ELECTRIC LIMITED
1879A2 (base 16) GMJ ELECTRIC LIMITED

RM 1405, 14/F, C C WU BUILDING
999077
HK

38-CA-97 (hex) Contour Design LLC
38CA97 (base 16) Contour Design LLC
10 Industrial Drive
Windham NH 03087
US

BC-2D-98 (hex) ThinGlobal LLC
BC2D98 (base 16) ThinGlobal LLC
703 wildflower
RD
Davenport FL 33837
US

50-ED-78 (hex) Changzhou Yongse Infotech Co.,Ltd
50ED78 (base 16) Changzhou Yongse Infotech Co.,Ltd
No.128 Zhengzhong Rd, Xixiashua Town
Changzhou Jiangsu 213135
CN

08-5A-E0 (hex) Recovision Technology Co., Ltd.
085AE0 (base 16) Recovision Technology Co., Ltd.
1709No.5 Wanghai Road,
Xiamen Fujian 361006
CN

7C-44-4C (hex) Entertainment Solutions, S.L.
7C444C (base 16) Entertainment Solutions, S.L.
Parque Empresarial Miraflores, nave 3
Zaragoza 50720
ES

9C-D6-43 (hex) D-Link International
9CD643 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

3C-18-A0 (hex) Luxshare Precision Industry Company Limited
3C18A0 (base 16) Luxshare Precision Industry Company Limited
Floor 2, Block A, Sanyo New Industrial Area
West Haoyi Community, Shajing Subdistrict Office Bao'an District, Shenzhen, Guangdong
523000
CN

94-E9-8C (hex) Nokia
94E98C (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

8C-AE-89 (hex) Y-cam Solutions Ltd
8CAE89 (base 16) Y-cam Solutions Ltd
3 dee road
Richmond Surrey TW9 2JN
GB

FC-E1-D9 (hex) Stable Imaging Solutions LLC
FCE1D9 (base 16) Stable Imaging Solutions LLC
3709 Old Conejo Rd
Newbury Park CA 91320
US

B0-45-45 (hex) YACOUB Automation GmbH
B04545 (base 16) YACOUB Automation GmbH
Gustav Meyer Allee 25
Berlin 13355
DE

C8-EE-75 (hex) Pishion International Co. Ltd
C8EE75 (base 16) Pishion International Co. Ltd
3F,NO,15-2,Beihuan Rd
Taichung City 42760
TW

CC-34-29 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
CC3429 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

94-C3-E4 (hex) Atlas Copco
IAS GmbH
94C3E4 (base 16) Atlas Copco IAS GmbH
Gewerbestr. 52
Bretten-Goelshausen 75015
DE

20-E7-91 (hex) Siemens Healthcare Diagnostics, Inc
20E791 (base 16) Siemens Healthcare Diagnostics, Inc
2 Edgewater Drive
Norwood MA 02062
US

08-97-58 (hex) Shenzhen Strong Rising Electronics Co.,Ltd DongGuan Subsidiary
089758 (base 16) Shenzhen Strong Rising Electronics Co.,Ltd DongGuan Subsidiary
QingPing Road 2,Qinghutou village
DongGuan GuangDong 523711
CN

FC-19-D0 (hex) Cloud Vision Networks Technology Co.,Ltd.
FC19D0 (base 16) Cloud Vision Networks Technology Co.,Ltd.
F/9,Hechuan Building 2016
Shanghai 201103
CN

94-86-D4 (hex) Surveillance Pro Corporation
9486D4 (base 16) Surveillance Pro Corporation
12F., No.4, Ln. 609, Sec. 5, Chongxin Rd., Sanchong Dist.
New Taipei City 241
US

28-47-AA (hex) Nokia Corporation
2847AA (base 16) Nokia Corporation
Joensuunkatu 7
Salo
N.A. 24101
FI

5C-D6-1F (hex) Qardio, Inc
5CD61F (base 16) Qardio, Inc
340 S Lemon Ave #1104F
Walnut California 91789
US

68-2D-DC (hex) Wuhan Changjiang Electro-Communication Equipment CO.,LTD
682DDC (base 16) Wuhan Changjiang Electro-Communication Equipment CO.,LTD
No.8,Yinghu Sience&Technology industrial park
Wuhan Hubei 430040
CN

64-BA-BD (hex) SDJ Technologies, Inc.
64BABD (base 16) SDJ Technologies, Inc.
2125-B Madera Road
Simi Valley CA 93065
US

24-C8-48 (hex) mywerk Portal GmbH
24C848 (base 16) mywerk Portal GmbH
Fabrikstr. 3
Gronau 48599

DE

B4-24-E7 (hex) Codetek Technology Co.,Ltd
B424E7 (base 16) Codetek Technology Co.,Ltd
4F.-1, No.55, Dongguang Rd., East Dist.,
Hsinchu City 300
TW

54-2F-89 (hex) Euclid Laboratories, Inc.
542F89 (base 16) Euclid Laboratories, Inc.
9151 Arvida Ln
Coral Gables Florida 33156
US

7C-BF-88 (hex) Mobilicom
LTD
7CBF88 (base 16) Mobilicom LTD
Hametzoda 31
Azor 5800174
IL

60-DB-2A (hex) HNS
60DB2A (base 16) HNS
345-50, Gasan-dong, Geumcheon-gu, Seoul, Korea[153-707]
Seoul The Seoul Metropolis 82
KR

CC-FB-65 (hex) Nintendo Co., Ltd.
CCFB65 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

A0-A2-3C (hex) GPMS
A0A23C (base 16) GPMS
40 Ridge Rd
Cornwall VT 05753
US

68-FC-B3 (hex) Next Level Security Systems, Inc.
68FCB3 (base 16) Next Level Security Systems, Inc.
6353 Corte Del Abeto
Carlsbad CA 92011
US

9C-44-3D (hex) CHENGDU XUGUANG TECHNOLOGY CO, LTD
9C443D (base 16) CHENGDU XUGUANG TECHNOLOGY CO, LTD
2ND SECTION,PARK ROAD

CHENGDU SICHUAN 610100
CN

FC-D8-17 (hex) Beijing Hesun Technologies Co.Ltd.
FCD817 (base 16) Beijing Hesun Technologies Co.Ltd.
Room 1811, 18th floor, Building No. 4, Courtyard
1, Shangdi tenth Street
Beijing 100085
CN

34-88-5D (hex) Logitech Far East
34885D (base 16) Logitech Far East
#2 Creation Rd. 4,
Hsinchu 300
TW

88-57-6D (hex) XTA Electronics Ltd
88576D (base 16) XTA Electronics Ltd
The Design House
Stourport-on-Severn Worcestershire DY13 9BZ
GB

BC-41-00 (hex) CODACO ELECTRONIC s.r.o.
BC4100 (base 16) CODACO ELECTRONIC s.r.o.
Hemy 825
Valasske Mezirici 75701
CZ

E8-61-1F (hex) Dawning Information Industry Co.,Ltd
E8611F (base 16) Dawning Information Industry Co.,Ltd
NO.15 Huake Street,Hi-Tech Zone
Tianjin 300384
CN

70-59-57 (hex) Medallion Instrumentation Systems
705957 (base 16) Medallion Instrumentation Systems
17150 Hickory St
Spring Lake MI 49456
US

60-A9-B0 (hex) Merchandising Technologies, Inc
60A9B0 (base 16) Merchandising Technologies, Inc
1050 NW 229th Avenue
HIllsboro OR 97124
US

50-27-C7

(hex) TECHNART Co.,Ltd
5027C7 (base 16) TECHNART Co.,Ltd
2-21 Nishiohjicho
Kusatsu Shiga 525-0037
JP

6C-5A-B5 (hex) TCL Technoly Electronics (Huizhou) Co., Ltd.
6C5AB5 (base 16) TCL Technoly Electronics (Huizhou) Co., Ltd.
19th Zhongkai Hi-tech Development Zone
Huizhou Guangdong 516006
CN

B4-3E-3B (hex) Viableware, Inc
B43E3B (base 16) Viableware, Inc
12220 113th Ave NE
Kirkland WA 98034
US

34-A3-BF (hex) Terewave. Inc.
34A3BF (base 16) Terewave. Inc.
Room 217, Ssangyong Research Center
Yuseong-gu Daejeon-city 305804
KR

8C-08-8B (hex) Remote Solution
8C088B (base 16) Remote Solution
92, Chogokri, Nammyun
Kimcheon city Kyungbuk 740-871
KR

EC-3E-09 (hex) PERFORMANCE DESIGNED PRODUCTS, LLC
EC3E09 (base 16) PERFORMANCE DESIGNED PRODUCTS, LLC
14144 Ventura Blvd
Sherman Oaks California 91423
US

0C-5C-D8 (hex) DOLI Elektronik GmbH
0C5CD8 (base 16) DOLI
Elektronik GmbH
Adi-Maislinger-Str. 7
Munich 81373
DE

3C-15-EA (hex) TESCOM CO., LTD.
3C15EA (base 16) TESCOM CO., LTD.
#928 UTV, 1141-2 Baeksuk Ilsandong
Goyang Gyeonggi 410-722
KR

E8-04-10 (hex) Private
E80410 (base 16) Private

90-99-16 (hex) ELVEES NeoTek OJSC
909916 (base 16) ELVEES NeoTek OJSC
Proezd 4922, dom 4, stroenie 2
Moscow Zelenograd 124498
RU

A0-14-3D (hex) PARROT SA
A0143D (base 16) PARROT SA
174 Quai de Jemmapes
Paris 75010
FR

FC-1B-FF (hex) V-ZUG AG
FC1BFF (base 16) V-ZUG AG
Industriestrasse 66
Zug 6301
CH

00-A2-FF (hex) abatec group AG
00A2FF (base 16) abatec group AG
Oberregauerstraße 48
Regau 4844
AT

60-24-C1 (hex) Jiangsu Zhongxun Electronic Technology Co., Ltd
6024C1 (base 16) Jiangsu Zhongxun Electronic Technology Co., Ltd
tangshu road #8
yixing jiangsu 214221
CN

DC-C4-22 (hex) Systembase Limited
DCC422
(base 16) Systembase Limited
Jupes Field House, Pettridge Lane
Warminster Wiltshire BA12 6DG
GB

C8-F3-6B (hex) Yamato Scale Co.,Ltd.
C8F36B (base 16) Yamato Scale Co.,Ltd.
5-22
Akashi Hyogo 673-8688
JP

6C-D1-B0 (hex) WING SING ELECTRONICS HONG KONG LIMITED

6CD1B0 (base 16) WING SING ELECTRONICS HONG KONG LIMITED
No. 1, Guoyuan Industrial Zone
Guangzhou Guang Dong 510385
CN

98-F8-C1 (hex) IDT Technology Limited
98F8C1 (base 16) IDT Technology Limited
Block C, 9/F.,Kaiser Estate, Phase 1,
Kowloon Hong Kong
HK

A4-F5-22 (hex) CHOFU SEISAKUSHO CO.,LTD
A4F522 (base 16) CHOFU SEISAKUSHO CO.,LTD
2-1
Shimonoseki-shi Yamaguchi 752-8555
JP

84-5C-93 (hex) Chabrier Services
845C93 (base 16) Chabrier Services
354 Chemin de la Pinatte
Saint-Peray 07130
FR

F4-BD-7C (hex) Chengdu jinshi communication Co., LTD
F4BD7C (base 16) Chengdu jinshi communication
Co., LTD
No. 108 #1-2-505, Eastern 5 Section, First Ring Road, JinJiang District,
Chengdu Chongqing 610000
CN

68-E1-66 (hex) Private
68E166 (base 16) Private

60-FE-F9 (hex) Thomas & Betts
60FEF9 (base 16) Thomas & Betts
5900 Eastport Blvd
Richmond VA 23231
US

B8-DC-87 (hex) IAI Corporation
B8DC87 (base 16) IAI Corporation
577-1 Obane
Shizuoka-City Shizuoka 424-0103
JP

7C-6F-F8 (hex) ShenZhen ACTO Digital Video Technology Co.,Ltd.
7C6FF8 (base 16) ShenZhen ACTO Digital Video Technology Co.,Ltd.
3/F,Building 7,Software Park

ShenZhen GuangDong 518055
CN

DC-F7-55 (hex) SITRONIK
DCF755 (base 16) SITRONIK
22 MARISCHAL GARDENS
ABERDEEN ABERDEENSHIRE AB21 9BY
GB

BC-2B-D7 (hex) Revogi Innovation Co., Ltd.
BC2BD7 (base 16) Revogi Innovation Co., Ltd.
2018, Anhui Building, No. 6007,
Shenzhen, Guangdong 518113
CN

28-6D-97 (hex) SAMJIN Co., Ltd.
286D97
(base 16) SAMJIN Co., Ltd.
199-6, Anyang 7-dong, Manan-gu
Anyang-si Gyeonggi-do 430-817
KR

94-7C-3E (hex) Polewall Norge AS
947C3E (base 16) Polewall Norge AS
Vige Havnevei 78
Kristiansand Vest-Agder 4633
NO

38-5A-A8 (hex) Beijing Zhongdun Security Technology Development Co.
385AA8 (base 16) Beijing Zhongdun Security Technology Development Co.
No.1 Capital Gymnasium South Road
Beijing 100048
CN

F4-A2-94 (hex) EAGLE WORLD DEVELOPMENT CO., LIMITED
F4A294 (base 16) EAGLE WORLD DEVELOPMENT CO., LIMITED
1F, CMA Bldg., 64 Connaught Road Central
Hong Kong 00852
HK

F4-28-96 (hex) SPECTO PAINEIS ELETRONICOS LTDA
F42896 (base 16) SPECTO PAINEIS ELETRONICOS LTDA
RUA WALTER JOSE CORREA, AREA 12
SAO JOSE SANTA CATARINA 88122-035
BR

78-CB-33 (hex) DHC Software Co.,Ltd
78CB33 (base 16) DHC Software Co.,Ltd

16/F,DHC Mansion No.3 Zijin
Beijing 100190
CN

24-EC-D6
(hex) CSG Science & Technology Co.,Ltd.Hefei
24ECD6 (base 16) CSG Science & Technology Co.,Ltd.Hefei
No.612-1,Huangshan Road,Gaoxin District
Hefei Anhui Province 230088
CN

1C-48-F9 (hex) GN Netcom A/S
1C48F9 (base 16) GN Netcom A/S
Lautrupbjerg 7
Ballerup Ballerup DK-2750
DK

9C-4E-BF (hex) BoxCast
9C4EBF (base 16) BoxCast
14538 Grapeland Ave
Cleveland Ohio 44111
US

34-A8-43 (hex) KYOCERA Display Corporation
34A843 (base 16) KYOCERA Display Corporation
5-7-18 Higashinippori
Arakawa-ku Tokyo 116-0014
JP

80-BB-EB (hex) Satmap Systems Ltd
80BBEB (base 16) Satmap Systems Ltd
4 Fountain House
Leatherhead Surrey KT22 7LX
GB

00-B7-8D (hex) Nanjing Shining Electric Automation Co., Ltd
00B78D (base 16) Nanjing Shining Electric Automation Co., Ltd
NO.699,Laiyinda Road
Nanjing Jiangsu 211100
CN

A0-5B-21 (hex) ENVINET GmbH
A05B21 (base 16) ENVINET GmbH
Hans-Pinsel-Str.
4
Haar 85540
DE

5C-02-6A (hex) Applied Vision Corporation
5C026A (base 16) Applied Vision Corporation
2020 Vision Lane
Cuyahoga Falls OH 44223
US

0C-93-01 (hex) PT. Prasimax Inovasi Teknologi
0C9301 (base 16) PT. Prasimax Inovasi Teknologi
Jl. Margonda Raya 494D
Depok Jawa Barat 16424
ID

74-66-30 (hex) T:mi Ytti
746630 (base 16) T:mi Ytti
Messitytonkatu 8 C 39
Helsinki n/a 00180
FI

6C-B3-50 (hex) Anhui comhigher tech co.,ltd
6CB350 (base 16) Anhui comhigher tech co.,ltd
B6,717 Zhongshan South Road
Wuhu Anhui 241000
CN

38-59-F8 (hex) MindMade Sp. z o.o.
3859F8 (base 16) MindMade Sp. z o.o.
Sniadeckich 10
Warsaw 00-656
PL

E8-92-18 (hex) Arcontia International AB
E89218 (base 16) Arcontia International AB
Gruvgatan 35A
Vastra Frolunda 421 30
SE

00-75-E1 (hex) Ampt, LLC
0075E1 (base 16) Ampt, LLC
4850 Innovation
Drive
Fort Collins Colorado 80525
US

D4-6A-91 (hex) SnapAV
D46A91 (base 16) SnapAV
1800 Continental Blvd
Charlotte 28273
US

B0-79-3C (hex) Revolv Inc
B0793C (base 16) Revolv Inc
2060 Broadway #380
Boulder CO 80302
US

4C-DF-3D (hex) TEAM ENGINEERS ADVANCE TECHNOLOGIES INDIA PVT LTD
4CDF3D (base 16) TEAM ENGINEERS ADVANCE TECHNOLOGIES INDIA PVT LTD
A-1/2/A,IDA UPPAL,
HYDERABAD AP 500039
IN

98-CD-B4 (hex) Virident Systems, Inc.
98CDB4 (base 16) Virident Systems, Inc.
500 Yosemite Dr.
Milpitas CA 95035
US

A4-23-05 (hex) Open Networking Laboratory
A42305 (base 16) Open Networking Laboratory
1000 El Camino Real
Menlo Park CA 94025
US

CC-2A-80 (hex) Micro-Biz intelligence solutions Co.,Ltd
CC2A80 (base 16) Micro-Biz intelligence solutions Co.,Ltd
Room 611,Sunshine Building
Zhuhai City Guangdong Province 519000
CN

34-CD-6D (hex) CommSky Technologies
34CD6D
(base 16) CommSky Technologies
4655 Old Ironsides Dr
Santa Clara CA 95054
US

B0-FE-BD (hex) Private
B0FEBD (base 16) Private

60-69-9B (hex) isepos GmbH
60699B (base 16) isepos GmbH
Wannweiler Str. 12
Kirchentellinsfurt 72138
US

D4-D5-0D (hex) Southwest Microwave, Inc

D4D50D (base 16) Southwest Microwave, Inc
9055 S McKemy St
Tempe AZ 85284
US

E4-38-F2 (hex) Advantage Controls
E438F2 (base 16) Advantage Controls
4700 Harold Abitz Dr.
Muskogee OK 74403
US

C4-C7-55 (hex) Beijing HuaqinWorld Technology Co.,Ltd
C4C755 (base 16) Beijing HuaqinWorld Technology Co.,Ltd
30F,Beijing Silver Tower,No.2 North Road,
Beijing 100027
CN

0C-2D-89 (hex) QiiQ Communications Inc.
0C2D89 (base 16) QiiQ Communications Inc.
30 East Beaver Creek Road
Richmond Hill Ontario L4B 1J2
CA

A8-D2-36 (hex) Lightware Visual Engineering
A8D236 (base 16) Lightware
Visual Engineering
Peterdy utca 15.
Budapest H-1071
HU

4C-55-B8 (hex) Turkcell Teknoloji
4C55B8 (base 16) Turkcell Teknoloji
TUBITAK MAM Teknoloji Serbest Bolgesi Gebze
Kocaeli 41470
TR

78-8D-F7 (hex) Hitron Technologies. Inc
788DF7 (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

94-50-47 (hex) Rechnerbetriebsgruppe
945047 (base 16) Rechnerbetriebsgruppe
Werner von Siemens Str. 64
Würzburg Bayern 97076
DE

E0-31-D0 (hex) SZ Telstar CO., LTD
E031D0 (base 16) SZ Telstar CO., LTD
Telstar Technology Park No.12&14, Longtong Industrial Zone
Shenzhen Guangdong 518172
CN

54-11-2F (hex) Sulzer Pump Solutions Finland Oy
54112F (base 16) Sulzer Pump Solutions Finland Oy
Lentokentaentie 44
Lappeenranta FI-53600
FI

08-80-39 (hex) Cisco SPVTG
088039 (base 16) Cisco SPVTG
5030
Sugarloaf Parkway
Lawrenceville GA 30044
US

98-10-94 (hex) Shenzhen Vsun communication technology Co.,ltd
981094 (base 16) Shenzhen Vsun communication technology Co.,ltd
Room 1903, Block A,
Shenzhen Guangdong 518000
CN

A4-F3-C1 (hex) Open Source Robotics Foundation, Inc.
A4F3C1 (base 16) Open Source Robotics Foundation, Inc.
419 N Shoreline Blvd
Mountain View CA 94043
US

14-13-30 (hex) Anakreon UK LLP
141330 (base 16) Anakreon UK LLP
5-th Floor
London EC3V 0EH
GB

74-CA-25 (hex) Calxeda, Inc.
74CA25 (base 16) Calxeda, Inc.
7000 North Mopac Expressway
Austin TX 78731
US

B4-34-6C (hex) MATSUNICHI DIGITAL TECHNOLOGY (HONG KONG) LIMITED
B4346C (base 16) MATSUNICHI DIGITAL TECHNOLOGY (HONG KONG) LIMITED
22/F. TWO INTERNATIONAL FINANCE CTR
Hong Kong Hong Kong 999077
HK

90-46-B7 (hex) Vadaro Pte Ltd
9046B7 (base 16) Vadaro Pte Ltd
71 Ayer Rajah Crescent

139951
SG

04-CF-25 (hex) MANYCOLORS, INC.
04CF25 (base 16) MANYCOLORS, INC.
3F, 4-1-18 Jinnoharu
Kitakyushu Fukuoka 8070821
JP

B0-50-BC (hex) SHENZHEN BASICOM ELECTRONIC CO.,LTD.
B050BC (base 16) SHENZHEN BASICOM ELECTRONIC CO.,LTD.
Basicom industry park, Baolong Avenue 3rd Road, Baolong industry town
Shenzhen Guangdong 518116
CN

84-1E-26 (hex) KERNEL-I Co.,LTD
841E26 (base 16) KERNEL-I Co.,LTD
#606,ACE Techno Tower 10,470-5
Gasan-Dong, Geumcheon-gu, Seoul Korea 153-789
KR

DC-70-14 (hex) Private
DC7014 (base 16) Private

50-B8-A2 (hex) ImTech Technologies LLC,
50B8A2 (base 16) ImTech Technologies LLC,
2101 NE Jack London St
Corvallis Oregon 97330
US

B0-4C-05 (hex) Fresenius Medical Care Deutschland GmbH
B04C05 (base 16) Fresenius Medical Care Deutschland GmbH
Hafenstr. 9
Schweinfurt 97424
DE

5C-A3-EB (hex) Lokel s.r.o.
5CA3EB (base 16) Lokel
s.r.o.
Moravska 797/85
Ostrava Moravskoslezsky 700 30
CZ

E4-F3-E3 (hex) Shanghai iComhome Co.,Ltd.
E4F3E3 (base 16) Shanghai iComhome Co.,Ltd.
Small second floor of No.773 Siping Road
Shanghai 200092
CN

00-86-A0 (hex) Private
0086A0 (base 16) Private

60-FE-1E (hex) China Palms Telecom.Ltd
60FE1E (base 16) China Palms Telecom.Ltd
2nd Floor of Building 1
PuDong District Shanghai 201203
US

04-BF-A8 (hex) ISB Corporation
04BFA8 (base 16) ISB Corporation
1-2-1 Shinyokohama, Kohoku-ku
Yokohama Kanagawa 222-0033
JP

8C-C7-D0 (hex) zhejiang ebang communication co.,ltd
8CC7D0 (base 16) zhejiang ebang communication co.,ltd
1418-36#,Moganshan Road
hangzhou zhejiang 310013
CN

B8-AE-6E (hex) Nintendo Co., Ltd.
B8AE6E (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

D0-EB-03 (hex) Zhehua technology limited
D0EB03
(base 16) Zhehua technology limited
Room 2206,No 1079,A,ZhanTao Technology Building, MinZhi Street, Longhua District
Tortoal British Virgin Island,Hong Kong Shenzhen,Guang Dong 518131
CN

68-3E-EC (hex) ERECA
683EEC (base 16) ERECA
75, Rue d'Orgemont
Saint GRATIEN 95210
FR

0C-2A-E7 (hex) Beijing General Research Institute of Mining and Metallurgy
0C2AE7 (base 16) Beijing General Research Institute of Mining and Metallurgy

Building 23, Zone 18 of ABP, No. 188
Beijing 100160
CN

98-30-71 (hex) DAIKYUNG VASCOM
983071 (base 16) DAIKYUNG VASCOM
DAIKYUNG Bldg.#1164-15,Gaepo-dong
Gangnam-gu Seoul 135-960
KR

D4-95-24 (hex) Clover Network, Inc.
D49524 (base 16) Clover Network, Inc.
415 N Mathilda Ave
Sunnyvale CA 94085
US

0C-04-00 (hex) Jantar d.o.o.
0C0400 (base 16) Jantar d.o.o.
Kranjska cesta 24
Naklo Slovenia 4202
SI

68-7C-D5 (hex) Y Soft Corporation,
a.s.
687CD5 (base 16) Y Soft Corporation, a.s.
Technicka 2948/13
Brno Czech Republic 616 00
CZ

C0-4D-F7 (hex) SERELEC
C04DF7 (base 16) SERELEC
2, Chemin du Génie
VENISSIEUX CEDEX 69633
FR

50-A7-15 (hex) Aboundi, Inc.
50A715 (base 16) Aboundi, Inc.
4 Bud Way, Unit 10
Nashua NH 03063
US

C4-26-28 (hex) Airo Wireless
C42628 (base 16) Airo Wireless
12 Piedmont Center
Atlanta GA 30305
US

30-AA-BD (hex) Shanghai Reallytek Information Technology Co.,Ltd

30AABD (base 16) Shanghai Reallytek Information Technology Co.,Ltd
Building No.1-906, No.3000 Long Dong Avenue
Shanghai 201203
CN

A4-B8-18 (hex) PENTA Gesellschaft für elektronische Industriedatenverarbeitung mbH
A4B818 (base 16) PENTA Gesellschaft für elektronische Industriedatenverarbeitung mbH
Ulrichsberger Str. 17
Deggendorf 94469
DE

0C-84-84 (hex) Zenovia Electronics Inc.
0C8484 (base 16) Zenovia
Electronics Inc.
#206, 506B St. Albert Rd.
St. Albert AB T8N 5Z1
CA

00-59-07 (hex) LenovoEMC Products USA, LLC
005907 (base 16) LenovoEMC Products USA, LLC
22 South St
Hopinkton MA 01748
US

A8-61-AA (hex) Cloudview Limited
A861AA (base 16) Cloudview Limited
Kingsway House
St Peter Port Guernsey GY1 2QE
GB

0C-F4-05 (hex) Beijing Signalway Technologies Co.,Ltd
0CF405 (base 16) Beijing Signalway Technologies Co.,Ltd
Room B 1905,Tri-tower
Haidian District Beijing 100190
CN

50-61-D6 (hex) Indu-Sol GmbH
5061D6 (base 16) Indu-Sol GmbH
Blumenstr. 3
Schmölln Thüringen 04626
DE

FC-11-86 (hex) Logic3 plc
FC1186 (base 16) Logic3 plc
Rhodes Way
Watford Hertfordshire WD24 4YW
GB

C8-B3-73 (hex) Cisco-Linksys, LLC
C8B373 (base 16) Cisco-Linksys, LLC
121 Theory Drive
Irvine California 92612
US

2C-24-5F (hex) Babolat VS
2C245F (base 16) Babolat
VS
93 rue Andre Bollier
Lyon 69007
FR

90-56-92 (hex) Autotalks Ltd.
905692 (base 16) Autotalks Ltd.
Kfar Netter
Israel 40593
IL

C8-EE-A6 (hex) Shenzhen SHX Technology Co., Ltd
C8EEA6 (base 16) Shenzhen SHX Technology Co., Ltd
6F,No.10 buliding,JiuXiangling Industial Zone,Xili,
Shenzhen Guangdong 518055
CN

24-81-AA (hex) KSH International Co., Ltd.
2481AA (base 16) KSH International Co., Ltd.
2F, No.17 Minsheng Rd, Xindian Dist.,
New Taipei City 23150
US

E0-18-77 (hex) FUJITSU LIMITED
E01877 (base 16) FUJITSU LIMITED
403, Kosugi-cho 1-chome, Nakahara-ku
Kawasaki Kanagawa 211-0063
JP

E4-57-A8 (hex) Stuart Manufacturing, Inc.
E457A8 (base 16) Stuart Manufacturing, Inc.
1615 East Wallace Street
Fort Wayne Indiana 46803
US

4C-CC-34 (hex) Motorola Solutions Inc.
4CCC34 (base 16) Motorola Solutions Inc.
One Motorola Plaza
Holtsville NY 11742
US

D0-D4-71
(hex) MVTECH co., Ltd
D0D471 (base 16) MVTECH co., Ltd
#1004, Hanshin IT Tower, 235, Guro 3-dong, Guro-Gu
SEOUL 152-768
KR

08-68-D0 (hex) Japan System Design
0868D0 (base 16) Japan System Design
Skyhills Deshio 3F
Hiroshima 734-0001
JP

D4-22-3F (hex) Lenovo Mobile Communication Technology Ltd.
D4223F (base 16) Lenovo Mobile Communication Technology Ltd.
No.999,Qishan North 2nd Road,Information&Optoelectronics Park,Torch Hi-tech Industry Development Zone,
Xiamen Fujian 361006
US

E8-E8-75 (hex) iS5 Communications Inc.
E8E875 (base 16) iS5 Communications Inc.
#1-1815 Meyerside Drive
Mississauga Ontario L5T 1G3
CA

C8-0E-95 (hex) OmniLync Inc.
C80E95 (base 16) OmniLync Inc.
51a Bennington St.
Newton MA 02458
US

10-4D-77 (hex) Innovative Computer Engineering
104D77 (base 16) Innovative Computer Engineering
10302 Eaton Place STE 100
Fairfax
VA 22030
US

5C-E0-CA (hex) FeiTian United (Beijing) System Technology Co., Ltd.
5CE0CA (base 16) FeiTian United (Beijing) System Technology Co., Ltd.
3 Floor, Tower B, Huizhi Tower
Haidian District Beijing 100085
CN

E0-81-77 (hex) GreenBytes, Inc.
E08177 (base 16) GreenBytes, Inc.
15 Gray Lane, Suite 301

Ashaway RI 02804
US

9C-98-11 (hex) Guangzhou Sunrise Electronics Development Co., Ltd
9C9811 (base 16) Guangzhou Sunrise Electronics Development Co., Ltd
12th Floor,368 GuangZhou Avenue South
Guangzhou Guangdong 510300
CN

B8-60-91 (hex) Onnet Technologies and Innovations LLC
B86091 (base 16) Onnet Technologies and Innovations LLC
1, 82/83 Street, New Industrial Area -II
Ajman Ajman 52141
AE

30-15-18 (hex) Ubiquitous Communication Co. ltd.
301518 (base 16) Ubiquitous Communication Co. ltd.
JEI Platz RM No.410-1
Seoul 153-792
KR

68-97-E8 (hex) Society of Motion Picture
& Television Engineers
6897E8 (base 16) Society of Motion Picture & Television Engineers
3 Barker Ave. FL5
White Plains NY 10601
US

7C-A1-5D (hex) GN ReSound A/S
7CA15D (base 16) GN ReSound A/S
Lautrupbjerg 7
Ballerup DK-CPH 2750
DK

3C-08-1E (hex) Beijing Yupont Electric Power Technology Co.,Ltd
3C081E (base 16) Beijing Yupont Electric Power Technology Co.,Ltd
No.1,Dizang-an Nanxiang
Beijing 100045
CN

FC-58-FA (hex) Shen Zhen Shi Xin Zhong Xin Technology Co.,Ltd.
FC58FA (base 16) Shen Zhen Shi Xin Zhong Xin Technology Co.,Ltd.
Block 3, Dong Huan Industrial Zone, Sha Jing Town
Shen Zhen Guang Dong 518000
CN

60-BB-0C (hex) Beijing HuaqinWorld Technology Co,Ltd
60BB0C (base 16) Beijing HuaqinWorld Technology Co,Ltd

30F,Beijing Silver Tower,No.2 North Road
Chao Yang District Beijing 100027
CN

10-B9-FE (hex) Lika srl
10B9FE (base 16) Lika srl
Via San Lorenzo
25
Carrè Vicenza 36010
IT

A4-2C-08 (hex) Masterwork Automodules
A42C08 (base 16) Masterwork Automodules
11F-3, 3,PARK ST., NAN GANG
TAIPEI 11503
TW

8C-07-8C (hex) FLOW DATA INC
8C078C (base 16) FLOW DATA INC
2309 GRAND PARK DRIVE
GRAND JUNCTION CO 81505
US

F8-DF-A8 (hex) zte corporation
F8DFA8 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

A8-95-B0 (hex) Aker Subsea Ltd
A895B0 (base 16) Aker Subsea Ltd
Kiekhill Industrial Estate
Aberdeen AB51 3XA
GB

78-99-66 (hex) Musilab Electronics (DongGuan)Co.,Ltd.
789966 (base 16) Musilab Electronics (DongGuan)Co.,Ltd.
A2, LinDong 3 Road, LinCun
DongGuan Guangdong 523710
CN

28-CB-EB (hex) One
28CBEB (base 16) One
Mechelsesteenweg 326
Edegem Antwerpen 2650
BE

B8-C4-6F (hex) PRIMMCON INDUSTRIES INC

B8C46F (base 16) PRIMMCON INDUSTRIES
INC
137 MinQuan Rd, 5th Floor,
New Taipei 23141
TW

D8-B0-2E (hex) Guangzhou Zonerich Business Machine Co., LTD.
D8B02E (base 16) Guangzhou Zonerich Business Machine Co., LTD.
North Gate, No.17 Yunjun Road, Luogang District
Guangzhou Guangdong 510530
CN

90-7A-F1 (hex) Wally
907AF1 (base 16) Wally
1415 NE 45th St
Seattle WA 98105
US

2C-B6-93 (hex) Radware
2CB693 (base 16) Radware
22 Raoul Wallenberg St.
Tel-Aviv 69710
IL

AC-41-22 (hex) Eclipse Electronic Systems Inc.
AC4122 (base 16) Eclipse Electronic Systems Inc.
17111 Waterview Parkway
Dallas TX 75252
US

30-05-5C (hex) Brother industries, LTD.
30055C (base 16) Brother industries, LTD.
1-1-1, Kawagishi, Mizuho-ku,
Nagoya Aichi 467-8562
JP

08-0E-A8 (hex) Velex s.r.l.
080EA8 (base 16) Velex s.r.l.
Via Dell'Artigianato 56
Vigodarzere Padova 35010
IT

C4-E0-32 (hex) IEEE
1904.1 Working Group
C4E032 (base 16) IEEE 1904.1 Working Group
1351 Redwood Way,
Petaluma CA 94954
US

84-17-15 (hex) GP Electronics (HK) Ltd.
841715 (base 16) GP Electronics (HK) Ltd.
Gold Peak Industrial Building, 6F
Kwai Chung NT
HK

58-EB-14 (hex) Proteus Digital Health
58EB14 (base 16) Proteus Digital Health
2600 Bridge Parkway, Ste 101
Redwood City California 94065
US

C4-58-C2 (hex) Shenzhen TATFOOK Technology Co., Ltd.
C458C2 (base 16) Shenzhen TATFOOK Technology Co., Ltd.
3rd Industrial Area of Shajing Industrial Company, Haoxiang Road
Shenzhen Guangdong 518104
CN

D0-CD-E1 (hex) Scientech Electronics
D0CDE1 (base 16) Scientech Electronics
4F, No.501-17, Zhong Zheng Rd,
New Taipei City 23148
TW

8C-76-C1 (hex) Goden Tech Limited
8C76C1 (base 16) Goden Tech Limited
ROOM 510-511C2 NAN FUNG TOWER.,
999077
HK

08-F1-B7 (hex) Towerstream Corpration
08F1B7
(base 16) Towerstream Corpration
55 Hammerlund Way
Middletown RI 02842
US

C0-44-E3 (hex) Shenzhen Sinkna Electronics Co., LTD
C044E3 (base 16) Shenzhen Sinkna Electronics Co., LTD
9 Building, XinXin Tian Industry Area,
Shenzhen Guangdong 5180000
CN

18-55-0F (hex) Cisco SPVTG
18550F (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044

US

18-7A-93 (hex) AMICCOM Electronics Corporation
187A93 (base 16) AMICCOM Electronics Corporation
Room A3, 1F., No.1, Lixing 1st Rd
Hsinchu 30078
TW

DC-A9-89 (hex) MACANDC
DCA989 (base 16) MACANDC
2-nd Filevskaya str.7/6
Moscow 121096
RU

A0-03-63 (hex) Robert Bosch Healthcare GmbH
A00363 (base 16) Robert Bosch Healthcare GmbH
Stuttgarter Stra
Waiblingen Baden-Württemberg 71332
DE

C4-5D-D8 (hex) HDMI Forum
C45DD8 (base 16) HDMI Forum
1140 East Arques Avenue, Suite 900
Sunnyvale CA
94085
US

C4-EB-E3 (hex) RRCN SAS
C4EBE3 (base 16) RRCN SAS
23 chemin du vieux chene
Meylan Isere 38246
FR

94-75-6E (hex) QinetiQ North America
94756E (base 16) QinetiQ North America
137 Delta Drive
Pittsburgh PA 15238
US

4C-1A-95 (hex) Novakon Co., Ltd.
4C1A95 (base 16) Novakon Co., Ltd.
6F., No. 120, Lane 235, Pao Chiao Road
New Taipei City 23145
TW

64-99-A0 (hex) AG Elektronik AB
6499A0 (base 16) AG Elektronik AB
Smidesv 12

Staffanstorp 24534
SE

84-8E-96 (hex) Embertec Pty Ltd
848E96 (base 16) Embertec Pty Ltd
182 Fullarton Road
Dulwich, Adelaide South Australia 5065
AU

7C-43-8F (hex) E-Band Communications Corp.
7C438F (base 16) E-Band Communications Corp.
10095 Scripps Ranch Ct. Ste A
San Diego CA 92131
US

44-9B-78 (hex) The Now Factory
449B78 (base 16) The Now Factory
Arkle Road
Dublin 18
IE

F0-F6-69 (hex) Motion
Analysis Corporation
F0F669 (base 16) Motion Analysis Corporation
3617 Westwind Blvd.
Santa Rosa CA 95403
US

F8-F0-82 (hex) NAGTECH LLC
F8F082 (base 16) NAGTECH LLC
12A, Krasnolesya Str., off 507
Ekaterinburg Sverdlovskaya oblast 620110
RU

5C-89-D4 (hex) Beijing Banner Electric Co.,Ltd
5C89D4 (base 16) Beijing Banner Electric Co.,Ltd
Mail Box 1033,Long cheng Garden
Chang Ping District beijing 102208
CN

18-2A-7B (hex) Nintendo Co., Ltd.
182A7B (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

68-FB-95 (hex) Generalplus Technology Inc.
68FB95 (base 16) Generalplus Technology Inc.

3F, No.8, Dusing Rd., Hsinchu Science Park
Hsinchu City 30077
TW

D4-0F-B2 (hex) Applied Micro Electronics AME bv
D40FB2 (base 16) Applied Micro Electronics AME bv
Esp 100
Eindhoven NB 5633 AA
NL

D0-B4-98 (hex) Robert Bosch LLC Automotive
Electronics
D0B498 (base 16) Robert Bosch LLC Automotive Electronics
15000 N Haggerty
Plymouth Michigan 48170
US

E0-55-97 (hex) Emergent Vision Technologies Inc.
E05597 (base 16) Emergent Vision Technologies Inc.
SUITE# 239 - 552A CLARKE ROAD
COQUITLAM British Columbia V3J 0A3
CA

88-87-DD (hex) DarbeeVision Inc.
8887DD (base 16) DarbeeVision Inc.
401 N. Cotswolds Lane #C
Orange California 92869
US

30-C8-2A (hex) WI-BIZ srl
30C82A (base 16) WI-BIZ srl
Via Carlo Ferrero 10
Cascine Vica Rivoli Torino 10098
IT

88-A3-CC (hex) Amatis Controls
88A3CC (base 16) Amatis Controls
210 Aspen Airport Business Center, Suite A
Aspen CO 81611
US

C0-A0-C7 (hex) FAIRFIELD INDUSTRIES
C0A0C7 (base 16) FAIRFIELD INDUSTRIES
1111 GILLINGHAM LANE
SUGAR LAND TEXAS 77478
US

A0-E2-5A (hex) Amicus SK, s.r.o.

A0E25A (base 16) Amicus SK, s.r.o.
Koreszkova 9
Skalica
Trnavsky kraj 90901
SK

84-9D-C5 (hex) Centera Photonics Inc.
849DC5 (base 16) Centera Photonics Inc.
3F, No 6-3 Dusing Rd.
Hsinchu Taiwan 30078
TW

58-09-43 (hex) Private
580943 (base 16) Private

24-2F-FA (hex) Toshiba Global Commerce Solutions
242FFA (base 16) Toshiba Global Commerce Solutions
B307/D121F
RTP NC 27709
US

E4-96-AE (hex) ALTOGRAPHICS Inc.
E496AE (base 16) ALTOGRAPHICS Inc.
Daegu Venture Center 13F
Daegu 701-020
KR

4C-22-58 (hex) cozybit, Inc.
4C2258 (base 16) cozybit, Inc.
605 Market Street
San Francisco CA 94105
US

EC-FC-55 (hex) A. Eberle GmbH & Co. KG
ECFC55 (base 16) A. Eberle GmbH & Co. KG
Frankenstrasse 160
Nuernberg Bavaria 90461
DE

78-99-5C (hex) Nationz Technologies Inc
78995C (base 16) Nationz Technologies Inc
12F,Tower Building #3,China Academy of Science and Technology Development,Gaoxin South Ave.1
Shen Zhen
GuangDong 518057
CN

54-11-5F (hex) Atamo Pty Ltd
54115F (base 16) Atamo Pty Ltd

21 River Road
Bayswater WA 6156
AU

8C-AE-4C (hex) Plugable Technologies
8CAE4C (base 16) Plugable Technologies
40 Lake Bellevue Dr.
Bellevue WA 98005
US

68-51-B7 (hex) PowerCloud Systems, Inc.
6851B7 (base 16) PowerCloud Systems, Inc.
3333 Coyote Hill Rd
Palo Alto CA 94304
US

1C-95-9F (hex) Veethree Electronics And Marine LLC
1C959F (base 16) Veethree Electronics And Marine LLC
2050 47th Terrace East
Bradenton Florida 34203
US

70-38-11 (hex) Siemens Mobility Limited
703811 (base 16) Siemens Mobility Limited
17 Langley Park Way
Chippenham Wiltshire SN15 1GG
GB

CC-4B-FB (hex) Hellberg Safety AB
CC4BFB (base 16) Hellberg Safety AB
Stakebergsvagen 2
Stenkullen 44361
SE

F4-94-66 (hex) CountMax, ltd
F49466 (base 16) CountMax, ltd
11 Titova str.
poselok
Lesnoy Moscowskaya oblast 141231
RU

F4-52-14 (hex) Mellanox Technologies, Inc.
F45214 (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

10-F4-9A (hex) T3 Innovation

10F49A (base 16) T3 Innovation
808 Calle Plano
Camarillo CA 93012
US

3C-57-BD (hex) Kessler Crane Inc.
3C57BD (base 16) Kessler Crane Inc.
602 East Jefferson St
Plymouth Indidana 46563
US

04-E9-E5 (hex) PJRC.COM, LLC
04E9E5 (base 16) PJRC.COM, LLC
14723 SW Brooke Ct
Sherwood Oregon 97140
US

60-BD-91 (hex) Move Innovation
60BD91 (base 16) Move Innovation
Generatorvej 8B,st
Herlev DK 2730
DK

34-C8-03 (hex) Nokia Corporation
34C803 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

F0-5F-5A (hex) Getriebebau NORD GmbH and Co. KG
F05F5A (base 16) Getriebebau NORD GmbH and Co. KG
Rudolf-Diesel-Strasse 1
Bargteheide
Schleswig-Holstein 22941
DE

6C-AD-EF (hex) KZ Broadband Technologies, Ltd.
6CADEF (base 16) KZ Broadband Technologies, Ltd.
1601 Tower C
Shenzhen Guangdong 518057
CN

74-5F-AE (hex) TSL PPL
745FAE (base 16) TSL PPL
Units 1-2, First Avenue
Marlow Buckinghamshire SL7 1YA
GB

74-2D-0A (hex) Norfolk Elektronik AG
742D0A (base 16) Norfolk Elektronik AG
Luzernstrasse 12
Eschenbach LU 6274
CH

48-5A-3F (hex) WISOL
485A3F (base 16) WISOL
373-7, Gajang-dong
Osan-si Gyeonggi-do 447-210
KR

70-F1-E5 (hex) Xetawave LLC
70F1E5 (base 16) Xetawave LLC
1668 Valtec Lane
Boulder CO 80301
US

C0-AA-68 (hex) OSASI Technos Inc.
C0AA68 (base 16) OSASI Technos Inc.
65-3, Hongu-cho,
Kochi-shi, Kochi-ken 780-0945
JP

88-D7-BC (hex) DEP Company
88D7BC (base 16) DEP Company
Poryadkovy pereulok,21
Moscow 127055
RU

0C-C6-55 (hex) Wuxi YSTen
Technology Co.,Ltd.
0CC655 (base 16) Wuxi YSTen Technology Co.,Ltd.
Room 1801,18F, North Star Times Tower,
Chaoyang District Beijing 100101
CN

28-9E-DF (hex) Danfoss Turbocor Compressors, Inc
289EDF (base 16) Danfoss Turbocor Compressors, Inc
1769 E. Paul Dirac Ave.
Tallahassee Florida 32310
US

80-3F-D6 (hex) bytes at work AG
803FD6 (base 16) bytes at work AG
Konradstrasse 15
Winterthur ZH 8400
CH

CC-26-2D (hex) Verifi, LLC
CC262D (base 16) Verifi, LLC
9466 Meridian Way
West Chester OH 45069
US

3C-8A-E5 (hex) Tensun Information Technology(Hangzhou) Co.,LTD
3C8AE5 (base 16) Tensun Information Technology(Hangzhou) Co.,LTD
Room 207,Building 5,Wensan Road
Hangzhou Zhejiang 310013
CN

7C-01-87 (hex) Curtis Instruments, Inc.
7C0187 (base 16) Curtis Instruments, Inc.
200 Kisco Avenue
Mt Kisco NY 10549
US

54-F6-66 (hex) Berthold Technologies GmbH and Co.KG
54F666
(base 16) Berthold Technologies GmbH and Co.KG
Calmbacher Strasse 22
Bad Wildbad 75323
DE

1C-11-E1 (hex) Wartsila Finland Oy
1C11E1 (base 16) Wartsila Finland Oy
Jarvikatu 2-4
Vaasa Western Finland 65101
FI

50-46-5D (hex) ASUSTek COMPUTER INC.
50465D (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

74-BF-A1 (hex) HYUNTECK
74BFA1 (base 16) HYUNTECK
#603 107-Dong, Jugong Apt., Changhyeon-ri, Hwado-eup
Namyangju-si Gyeonggi-do 472-779
KR

2C-5A-A3 (hex) PROMATE ELECTRONIC CO.LTD
2C5AA3 (base 16) PROMATE ELECTRONIC CO.LTD
4F 32,SEC.1 HUAN SHAN RD.,NEI HU,
TAIPEI 114

TW

34-E0-CF (hex) zte corporation
34E0CF (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

F8-22-85 (hex) Cypress Technology CO., LTD.
F82285 (base 16) Cypress Technology CO.,
LTD.
6F-5, NO., 130 Jiankang Rd.,
Zhonghe Dist. New Taipei City 23585
TW

24-EE-3A (hex) Chengdu Yingji Electronic Hi-tech Co Ltd
24EE3A (base 16) Chengdu Yingji Electronic Hi-tech Co Ltd
No.3 South Herui Road Hi-tech Zone
Chengdu City Sichuan 611731
CN

0C-C6-6A (hex) Nokia Corporation
0CC66A (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

74-27-3C (hex) ChangYang Technology (Nanjing) Co., LTD
74273C (base 16) ChangYang Technology (Nanjing) Co., LTD
NO.9 KaiCheng Road,QiLinTown
NanJing JiangSu 211100
CN

08-7C-BE (hex) Quintic Corp.
087CBE (base 16) Quintic Corp.
1600 Wyatt Dr., #8
Santa Clara CA 95054
US

C4-AD-21 (hex) MEDIAEDGE Corporation
C4AD21 (base 16) MEDIAEDGE Corporation
23F Kobe Commerce, Industry and Trade Center Bldg.
Kobe Hyogo 651-0083
JP

08-B7-38 (hex) Lite-On Technogy Corp.
08B738 (base 16) Lite-On Technogy Corp.
18F,

392, RueyKuang Road, Neihu,
Taipei 11492
TW

F8-AA-8A (hex) Axview Technology (Shenzhen) Co.,Ltd
F8AA8A (base 16) Axview Technology (Shenzhen) Co.,Ltd
NO 1, Mei Zhong Road, Futian District
SHENZHEN GUANGDONG 518049
CN

B4-00-9C (hex) CableWorld Ltd.
B4009C (base 16) CableWorld Ltd.
Kondorfa u. 6/B
Budapest 1112
HU

08-68-EA (hex) EITO ELECTRONICS CO., LTD.
0868EA (base 16) EITO ELECTRONICS CO., LTD.
1-34-1 Shinmeidai
Hamura-shi Tokyo 205-0023
JP

E8-04-F3 (hex) Throughtek Co., Ltd.
E804F3 (base 16) Throughtek Co., Ltd.
4F, no. 221, Chong-yang Rd.
Taipei 11573
TW

84-2B-BC (hex) Modelleisenbahn GmbH
842BBC (base 16) Modelleisenbahn GmbH
Plainbachstrasse 4
Bergheim 5101
AT

80-1D-AA (hex) Avaya Inc
801DAA (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

7C-09-2B (hex) Bekey A/S
7C092B (base 16) Bekey A/S
Bredebjergvej
6
Taastrup 2630
DK

80-AA-A4 (hex) USAG

80AAA4 (base 16) USAG
301 Goolsby Blvd
Deerfield Beach FL 33442
US

A4-0B-ED (hex) Carry Technology Co.,Ltd
A40BED (base 16) Carry Technology Co.,Ltd
4F, No.119, JianKang Road
Jhonghe Dist. New Taipei City 23585
TW

70-23-93 (hex) fos4X GmbH
702393 (base 16) fos4X GmbH
Thalkirchner Str. 210, Geb. 6
81371 München
DE

F8-5F-2A (hex) Nokia Corporation
F85F2A (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

C4-38-D3 (hex) TAGATEC CO.,LTD
C438D3 (base 16) TAGATEC CO.,LTD
#604, Dongmoon Goodmorning Tower 2,
Goyang-si Kyunggi-do 410-704
KR

E8-5B-F0 (hex) Imaging Diagnostics
E85BF0 (base 16) Imaging Diagnostics
POB 698
Nes Ziona N/A 74106
IL

04-4A-50 (hex) Ramaxel Technology (Shenzhen) limited company
044A50 (base 16) Ramaxel Technology (Shenzhen) limited company
2-5/F,North Block
Southeast Industrial and Commercial Building Houhai Road,Shekou Shenzhen
shenzhen guangdong 518067
CN

38-A5-B6 (hex) SHENZHEN MEGMEET ELECTRICAL CO.,LTD
38A5B6 (base 16) SHENZHEN MEGMEET ELECTRICAL CO.,LTD
5th Floor,Building B, Ziguang Information Harbor
Shenzhen Guangdong 518057
CN

0C-D9-C1 (hex) Visteon Corporation
0CD9C1 (base 16) Visteon Corporation
One Village Center Drive
Van Buren Twp MI 48111
US

E0-AA-B0 (hex) SUNTAILI ENTERPRISE CO. LTD,
E0AAB0 (base 16) SUNTAILI ENTERPRISE CO. LTD,
No. 6 ALY 3,LN 64 XINGFU RD, XINZHUNAG DISTRICT
NEW TAIPEI CITY 242
TW

50-2E-CE (hex) Asahi Electronics Co.,Ltd
502ECE (base 16) Asahi Electronics Co.,Ltd
29-25 Kariyado
Kanagawa-ken 211-0022
JP

AC-14-D2 (hex) wi-daq, inc.
AC14D2 (base 16) wi-daq, inc.
850 NW Federal Hwy
Stuart Florida 34994
US

68-AB-8A (hex) RF IDeas
68AB8A (base 16) RF IDeas
4020 Winnetka Ave
Rolling
Meadows IL 60008
US

9C-4C-AE (hex) Mesa Labs
9C4CAE (base 16) Mesa Labs
10 Evergreen Dr
Bozeman MT 59715
US

08-5B-0E (hex) Fortinet, Inc.
085B0E (base 16) Fortinet, Inc.
899 Kifer Road
Sunnyvale California 94086
US

EC-42-F0 (hex) ADL Embedded Solutions, Inc.
EC42F0 (base 16) ADL Embedded Solutions, Inc.
4411 Morena Blvd.
San Diego CA 92117
US

30-AE-F6 (hex) Radio Mobile Access
30AEF6 (base 16) Radio Mobile Access
1 Elm Sq
Andover MA 01870
US

6C-E4-CE (hex) Villiger Security Solutions AG
6CE4CE (base 16) Villiger Security Solutions AG
Giessenmatt 2
Sins 5643
CH

E8-CB-A1 (hex) Nokia Corporation
E8CBA1 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

78-44-05 (hex) FUJITU(HONG KONG) ELECTRONIC Co.,LTD.
784405 (base 16) FUJITU(HONG KONG) ELECTRONIC Co.,LTD.
8/F,QingHai Building,Xiang Mei Road,Futian District
SHENZHEN
GUANGDONG 518000
CN

64-9F-F7 (hex) Kone OYj
649FF7 (base 16) Kone OYj
Myllykatu 3
Hyvinkaa Hyvinkaa 05830
FI

14-6A-0B (hex) Cypress Electronics Limited
146A0B (base 16) Cypress Electronics Limited
11/F., Block G, East Sun Industrial Centre, 16 Shing Yip Street,
Hong Kong nil nil
HK

F4-90-EA (hex) Deciso B.V.
F490EA (base 16) Deciso B.V.
Edison 43
Midddelharnis Zuid Holland 3241LS
NL

5C-EE-79 (hex) Global Digitech Co LTD
5CEE79 (base 16) Global Digitech Co LTD
1F., No.25, Aly.56, Ln. 245, Sec. 4, Bade Rd.,
Taipei Taiwan 105

TW

80-CE-B1 (hex) Theissen Training Systems GmbH
80CEB1 (base 16) Theissen Training Systems GmbH
Schuchardstrasse 3
Duesseldorf NRW 40595
DE

FC-2A-54 (hex) Connected Data, Inc.
FC2A54 (base 16) Connected Data, Inc.
2905 Stender Way
Santa Clara CA 95054
US

78-25-44 (hex) Omnima Limited
782544 (base 16) Omnima
Limited
Oxford Science Park
Oxford Oxfordshire OX4 4GP
GB

A4-18-75 (hex) Cisco Systems, Inc
A41875 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

C8-AE-9C (hex) Shanghai TYD Elecronic Technology Co. Ltd
C8AE9C (base 16) Shanghai TYD Elecronic Technology Co. Ltd
21F, BLKB, NO.391 GuiPing Rd,
Shanghai 200233
CN

08-0C-C9 (hex) Mission Technology Group, dba Magma
080CC9 (base 16) Mission Technology Group, dba Magma
9918 Via Pasar
San Diego CA 92126
US

C0-5E-79 (hex) SHENZHEN HUAXUN ARK TECHNOLOGIES CO.,LTD
C05E79 (base 16) SHENZHEN HUAXUN ARK TECHNOLOGIES CO.,LTD
3F,C4 Building,Yintian Industrial Zone,Xixiang,Baoan District
shenzhen guangdong 518102
CN

58-BF-EA (hex) Cisco Systems, Inc
58BFEA (base 16) Cisco Systems, Inc
80 West Tasman Drive

San Jose CA 94568
US

FC-1D-59 (hex) I Smart Cities HK Ltd
FC1D59 (base 16) I Smart
Cities HK Ltd
Unit G,10/F,Phase 2,Yip Fat IND
73-75
HK

78-C4-AB (hex) Shenzhen Runsil Technology Co.,Ltd
78C4AB (base 16) Shenzhen Runsil Technology Co.,Ltd
4/F., Yuhua Building A, Yangmen Industrial Park,
Shenzhen GuangDong 518055
CN

C4-01-B1 (hex) SeekTech INC
C401B1 (base 16) SeekTech INC
3855 Ruffin Road
San Diego California 92123
US

C0-C9-46 (hex) MITSUYA LABORATORIES INC.
C0C946 (base 16) MITSUYA LABORATORIES INC.
6-31-18
KAWASAKI-CITY KANAGAWA 215-0021
JP

F4-60-0D (hex) Panoptic Technology, Inc
F4600D (base 16) Panoptic Technology, Inc
587 W Eau Gallie Blvd
Melbourne FL 32935
US

A8-2B-D6 (hex) Shina System Co., Ltd
A82BD6 (base 16) Shina System Co., Ltd
3305, O'BizTower, 126, Beolmal-ro,
Anyang-Si Gyeounggi-Do 431-763
KR

AC-CF-23 (hex) Hi-flying electronics technology Co.,Ltd
ACCF23 (base 16) Hi-flying electronics technology Co.,Ltd
Room
B101,456 BiBo Raod,PuDong
Shanghai 201200
CN

CC-91-2B (hex) TE Connectivity Touch Solutions

CC912B (base 16) TE Connectivity Touch Solutions
2245 Brighton Henrietta Town Line Road
Rochester New York 14623
US

60-90-84 (hex) DSSD Inc
609084 (base 16) DSSD Inc
4025 Bohannon Dr
Menlo Park CA 94025
US

80-2A-FA (hex) Germaneers GmbH
802AFA (base 16) Germaneers GmbH
Dr.-Kurt-Schumacher-Ring 3
Wettstetten Bayern 85139
DE

18-42-1D (hex) Private
18421D (base 16) Private

28-C9-14 (hex) Taimag Corporation
28C914 (base 16) Taimag Corporation
NO. 1, West 2nd St. N.E.P.Z
Kaohsiung 811
TW

20-C1-AF (hex) i Wit Digital Co., Limited
20C1AF (base 16) i Wit Digital Co., Limited
303,Buiding1,Nanhai Ecool Innovation Park,
Shenzhen GuangDong 518000
US

74-93-A4 (hex) Zebra Technologies Corp.
7493A4 (base 16) Zebra Technologies Corp.
20314 Seneca Meadows Parkway
Germantown
Maryland 21771
US

E4-71-85 (hex) Securifi Ltd
E47185 (base 16) Securifi Ltd
16F-3, #482 Zhongxiao E Rd, Sec 5
Taipei 11083
TW

D0-57-85 (hex) Pantech Co., Ltd.
D05785 (base 16) Pantech Co., Ltd.
110-1 Ongjeong-Ri, Tongjin-Eup

Gimpo-Si Gyounggi-Do 415-865
KR

40-8B-07 (hex) Actiontec Electronics, Inc
408B07 (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

04-5C-06 (hex) Zmodo Technology Corporation
045C06 (base 16) Zmodo Technology Corporation
1401 Interstate Dr
Champaign IL 61822
US

74-7B-7A (hex) ETH Inc.
747B7A (base 16) ETH Inc.
#202 Mazium BLG, 545-6, Dangjung-dong,
Gunpo-si Gyeonggi-do 435-833
KR

48-EA-63 (hex) Zhejiang Uniview Technologies Co., Ltd.
48EA63 (base 16) Zhejiang Uniview Technologies Co., Ltd.
Eastcom Building C,Eastcom Avenue
Hangzhou Zhejiang 310053
CN

E8-8D-F5 (hex) ZNYX Networks,
Inc.
E88DF5 (base 16) ZNYX Networks, Inc.
48421 Milmont Drive
Fremont CA 94538
US

6C-AE-8B (hex) IBM Corporation
6CAE8B (base 16) IBM Corporation
4400 North First Street
San Jose CA 95134
US

BC-14-01 (hex) Hitron Technologies. Inc
BC1401 (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

94-CA-0F (hex) Honeywell Analytics
94CA0F (base 16) Honeywell Analytics

2840 2nd Ave SE
Calgary Alberta T2A7X9
CA

40-16-FA (hex) EKM Metering
4016FA (base 16) EKM Metering
363 Berkeley Way
Santa Cruz CA 95062
US

0C-13-0B (hex) Uniqoteq Ltd.
0C130B (base 16) Uniqoteq Ltd.
Lemminkaisenkatu 14-18 A
Turku 20520
FI

2C-54-2D (hex) Cisco Systems, Inc
2C542D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

AC-3F-A4 (hex) TAIYO YUDEN CO.,LTD
AC3FA4
(base 16) TAIYO YUDEN CO.,LTD
8-1, Sakae-cho
Takasaki-shi Gunma 370-8522
JP

64-0E-94 (hex) Pluribus Networks, Inc.
640E94 (base 16) Pluribus Networks, Inc.
1808 Embarcadero Rd Suite B
Palo Alto CA 94303
US

0C-B4-EF (hex) Digience Co.,Ltd.
0CB4EF (base 16) Digience Co.,Ltd.
204 Building for Growth, Gumi Electronics&Information Technology Research Institute, 17 Cheomdangieop-1ro,
Gumi Gyeongbuk
KR

40-AC-8D (hex) Data Management, Inc.
40AC8D (base 16) Data Management, Inc.
3322 Loop 306
San Angelo Texas 76904
US

4C-AA-16 (hex) AzureWave Technologies (Shanghai) Inc.

4CAA16 (base 16) AzureWave Technologies (Shanghai) Inc.
No.8 Lane 66, Chenbao Road, Malu Town Jiading District
Shanghai 201801
CN

AC-40-EA (hex) C&T Solution Inc.
AC40EA (base 16) C&T Solution Inc.
12F-1, No.700, Zhongzheng Rd., Zhonghe Dist.
New Taipei City Taiwan 235
TW

00-2A-AF
(hex) LARsys-Automation GmbH
002AAF (base 16) LARsys-Automation GmbH
Sinzinger Str. 3
Hochburg-Ach 5122
AT

1C-E1-65 (hex) Marshal Corporation
1CE165 (base 16) Marshal Corporation
Field Three Sotokanda Bldg.
5-3-6, Sotokanda, Chiyodaku Tokyo 101-0021
JP

28-41-21 (hex) OptiSense Network, LLC
284121 (base 16) OptiSense Network, LLC
1308 10th Street
Bridgeport TX 76426
US

38-45-8C (hex) MyCloud Technology corporation
38458C (base 16) MyCloud Technology corporation
Room 705£¬Building F, Jiahua Building£¬
Beijing 100085
CN

10-E4-AF (hex) APR, LLC
10E4AF (base 16) APR, LLC
4800 US HWY 280 West
Opelika AL 36801
US

2C-2D-48 (hex) bct electronic GesmbH
2C2D48 (base 16) bct electronic GesmbH
Saalachstraße 86a
Salzburg 5020
AT

90-F7-2F (hex) Phillips Machine & Welding Co., Inc.
90F72F (base 16) Phillips Machine & Welding Co., Inc.
16125 E. Gale Ave.
Industry
CA 91745
US

F4-EA-67 (hex) Cisco Systems, Inc
F4EA67 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

28-BA-18 (hex) NextNav, LLC
28BA18 (base 16) NextNav, LLC
484 Oakmead Parkway
Sunnyvale CA 94085
US

AC-3D-75 (hex) HANGZHOU ZHIWAY TECHNOLOGIES CO.,LTD.
AC3D75 (base 16) HANGZHOU ZHIWAY TECHNOLOGIES CO.,LTD.
FLOOR12B,BUILDING E,PARADISE SOFTWARE PARK,NO.3 XIDOUMEN ROAD,
HANGZHOU ZHEJIANG 310012
CN

A0-90-DE (hex) VEEDIMS,LLC
A090DE (base 16) VEEDIMS,LLC
49 N. Federal Highway #397
Pompano Beach Florida 33062
US

00-2A-6A (hex) Cisco Systems, Inc
002A6A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

60-8C-2B (hex) Hanson Technology
608C2B (base 16) Hanson Technology
Room 1503, Zhao Jia Bang Road
Shanghai 200030
CN

64-2D-B7 (hex) SEUNGIL ELECTRONICS
642DB7 (base 16) SEUNGIL ELECTRONICS
#16-8,
Dodang-dong
Buchon Gyuonggi-do 420-801

KR

F4-36-E1 (hex) Abilis Systems SARL
F436E1 (base 16) Abilis Systems SARL
3, chemin Pré Fleuri
Plan-Les-Ouates Geneva 1228
CH

80-0A-06 (hex) COMTEC co.,ltd
800A06 (base 16) COMTEC co.,ltd
60 shimoishida,azabu-cho,
Miyoshi-shi Aichi-ken 470-0206
JP

E8-0C-75 (hex) Syncbak, Inc.
E80C75 (base 16) Syncbak, Inc.
5 Research Center
Marion IA 52302
US

04-F0-21 (hex) Compex Systems Pte Ltd
04F021 (base 16) Compex Systems Pte Ltd
135 Joo Seng Road,
368363
SG

34-2F-6E (hex) Anywire corporation
342F6E (base 16) Anywire corporation
1 Zusyo, Baba
Nagaokakyo Kyoto pref. 617-8550
JP

94-00-70 (hex) Nokia Corporation
940070 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

BC-2C-55 (hex) Bear Flag Design, Inc.
BC2C55 (base 16) Bear Flag Design, Inc.
1 Thayer Road
Santa
Cruz CA 95060
US

0C-75-23 (hex) BEIJING GEHUA CATV NETWORK CO.,LTD
0C7523 (base 16) BEIJING GEHUA CATV NETWORK CO.,LTD
No.35,N.Huayuan RD.,Haidian District

BEIJING 100083
CN

34-BA-9A (hex) Asiatelco Technologies Co.
34BA9A (base 16) Asiatelco Technologies Co.
301,#8 Building,#289 Bisheng Road
Shanghai 201204
CN

F0-00-7F (hex) Janz - Contadores de Energia, SA
F0007F (base 16) Janz - Contadores de Energia, SA
Avenida Infante D. Henrique
Lisbon 1800-223
PT

30-B3-A2 (hex) Shenzhen Heguang Measurement & Control Technology Co.,Ltd
30B3A2 (base 16) Shenzhen Heguang Measurement & Control Technology Co.,Ltd
3/F, Tower A, Xiangnian Plaza, 6060 Qiaoxiang Road,
Shenzhen Guangdong 518053
CN

28-18-FD (hex) Aditya Infotech Ltd.
2818FD (base 16) Aditya Infotech Ltd.
Khemka Square, A-12, Sector-4,
Noida Uttar Pradesh 201301
IN

D8-B9-0E (hex) Triple Domain Vision Co.,Ltd.
D8B90E
(base 16) Triple Domain Vision Co.,Ltd.
No.9, Aly. 1, Ln. 585, Sec.3, Fulin Rd.,
Hsinchu Conuty 307
TW

CC-EE-D9 (hex) VAHLE Automation GmbH
CCEED9 (base 16) VAHLE Automation GmbH
Egerbach 12a
Kufstein Schwoich Tirol 6334
AT

B0-8E-1A (hex) URadio Systems Co., Ltd
B08E1A (base 16) URadio Systems Co., Ltd
Phase II D202-2, 1355 JinJiHu Blvd
Suzhou Jiangsu 215021
CN

D8-E9-52 (hex) KEOPSYS
D8E952 (base 16) KEOPSYS

21 RUE LOUIS DE BROGLIE
LANNION BRITANY 22300
FR

64-52-99 (hex) The Chamberlain Group, Inc
645299 (base 16) The Chamberlain Group, Inc
300 Windsor Drive
Oak Brook IL 60523
US

00-5C-B1 (hex) Gospell DIGITAL TECHNOLOGY CO., LTD
005CB1 (base 16) Gospell DIGITAL TECHNOLOGY CO., LTD
Block F10-F13Â¡Â¢F518 Idea land Â¡Â¢Bao Yuan Road
Shenzhen Guangdong 518102
CN

50-60-28 (hex) Xirrus Inc.
506028 (base 16) Xirrus Inc.
2101 CORPORATE CENTER
DR
Thousand Oaks CALIFORNIA 91320
US

6C-E9-07 (hex) Nokia Corporation
6CE907 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

E4-FA-1D (hex) PAD Peripheral Advanced Design Inc.
E4FA1D (base 16) PAD Peripheral Advanced Design Inc.
1400 Hocquart
Saint-Bruno QC J3V 6E1
CA

BC-A4-E1 (hex) Nabto
BCA4E1 (base 16) Nabto
Aabogade 15
Aarhus Jutland 8200
DK

50-64-41 (hex) Greenlee
506441 (base 16) Greenlee
219 S Main St
Dallas TX 76104
US

9C-1F-DD (hex) Accupix Inc.

9C1FDD (base 16) Accupix Inc.
3F Gaeyang BLDG, 548-1,
Anyang Kyeonggi-Do 430-730
KR

7C-DD-11 (hex) Chongqing MAS SCI&TECH.Co.,Ltd
7CDD11 (base 16) Chongqing MAS SCI&TECH.Co.,Ltd
6th Floor, Zone C2,Hi-tech Venture Park, No.105 Erlang Venture Road
Chongqing City 400039
CN

B8-FD-32 (hex) Zhejiang ROICX Microelectronics
B8FD32 (base 16) Zhejiang ROICX Microelectronics
22
Floor, 1888 Jianghui Road, Binjiang District
Hangzhou Zhejiang 310051
CN

C8-AF-40 (hex) marco Systemanalyse und Entwicklung GmbH
C8AF40 (base 16) marco Systemanalyse und Entwicklung GmbH
Hans-Böckler-Straße 2
Dachau Bavaria 85221
DE

40-98-4C (hex) Casacom Solutions AG
40984C (base 16) Casacom Solutions AG
Badenerstarsse 551
Zuerich 8046
CH

70-EE-50 (hex) Netatmo
70EE50 (base 16) Netatmo
17 route de la reine
Boulogne-Billancourt 92100
FR

98-4A-47 (hex) CHG Hospital Beds
984A47 (base 16) CHG Hospital Beds
1020 Adelaide St S
London ON N6E 1R6
CA

14-49-78 (hex) Digital Control Incorporated
144978 (base 16) Digital Control Incorporated
19625 62nd Ave S
Kent WA 98032
US

2C-10-C1 (hex) Nintendo Co., Ltd.
2C10C1 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

8C-D1-7B (hex) CG Mobile
8CD17B
(base 16) CG Mobile
3F Caohejing Software Building, No.461 Hongcao Rd.,XuHui District
Shanghai 200233
CN

00-08-31 (hex) Cisco Systems, Inc
000831 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

34-D0-9B (hex) MobilMAX Technology Inc.
34D09B (base 16) MobilMAX Technology Inc.
2F-5, No.28, Tai-Yuan St.
Chupei City, Hsinchu Country 302
TW

00-91-FA (hex) Synapse Product Development
0091FA (base 16) Synapse Product Development
1511 6th Ave
Seattle WA 98101
US

A0-5A-A4 (hex) Grand Products Nevada, Inc.
A05AA4 (base 16) Grand Products Nevada, Inc.
751 Pilot Rd.
Las Vegas Nevada 89119
US

90-8F-CF (hex) UNO System Co., Ltd
908FCF (base 16) UNO System Co., Ltd
#402 Kolon Science Valley °., 187-10, Guro-dong, Guro-gu
Seoul 152-848
KR

40-E7-93 (hex) Shenzhen Siviton Technology Co.,Ltd
40E793 (base 16) Shenzhen Siviton Technology
Co.,Ltd
4F,Block6,Coolpad Business Centre,North of Keyuan Road,Hi-technology Zone,Nanshan District
Shenzhen Guangdong 518057

CN

50-26-90 (hex) FUJITSU LIMITED
502690 (base 16) FUJITSU LIMITED
403, Kosugi-cho 1-chome, Nakahara-ku
Kawasaki Kanagawa 211-0063
JP

3C-6A-7D (hex) Niigata Power Systems Co., Ltd.
3C6A7D (base 16) Niigata Power Systems Co., Ltd.
7-26,Tatsumi 3-Chome
Koto-ku TOKYO 135-0053
JP

50-22-67 (hex) PixeLINK
502267 (base 16) PixeLINK
3030 Conroy Road
Ottawa Ontario K1G 6C2
CA

3C-70-59 (hex) MakerBot Industries
3C7059 (base 16) MakerBot Industries
87 3rd Avenue
Brooklyn NY 11217
US

88-23-FE (hex) TTTech Computertechnik AG
8823FE (base 16) TTTech Computertechnik AG
Schoenbrunnerstrasse 7
Vienna 1040
AT

F0-EE-BB (hex) VIPAR GmbH
F0EEBB (base 16) VIPAR GmbH
Lichtenbergstrasse 8
Garching bei Muenchen Bavaria 85748
DE

1C-5C-55
(hex) PRIMA Cinema, Inc
1C5C55 (base 16) PRIMA Cinema, Inc
1903 Wright Place, Suite 320
Carlsbad CA 92008
US

5C-CE-AD (hex) CDYNE Corporation
5CCEAD (base 16) CDYNE Corporation
505 Independence Pkwy Ste 300

Chesapeake VA 23320
US

AC-54-EC (hex) IEEE P1823 Standards Working Group
AC54EC (base 16) IEEE P1823 Standards Working Group
445 Hoes Lane
Piscataway NJ 08854
US

70-97-56 (hex) Happyelectronics Co.,Ltd
709756 (base 16) Happyelectronics Co.,Ltd
#A-805, Bundang Technopark,
Seongnam-Si 463-816
KR

B8-20-E7 (hex) Guangzhou Horizontal Information & Network Integration Co. Ltd
B820E7 (base 16) Guangzhou Horizontal Information & Network Integration Co. Ltd
Floor 10¬Golden Star Building¬Wushan Hanjing Road¬Tianhe District¬Guangzhou City
Guangzhou Guangdong Province 510630
CN

00-CD-90 (hex) MAS Elektronik AG
00CD90 (base 16) MAS Elektronik AG
Pollhornbogen 19
Hamburg
21107
DE

00-08-2F (hex) Cisco Systems, Inc
00082F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

38-60-77 (hex) PEGATRON CORPORATION
386077 (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

70-81-05 (hex) Cisco Systems, Inc
708105 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E0-ED-1A (hex) vastriver Technology Co., Ltd
E0ED1A (base 16) vastriver Technology Co., Ltd

A-6A Keshi Building,No.28,Xinxi Road,Haidian,
Beijing 100085
CN

68-5E-6B (hex) PowerRay Co., Ltd.
685E6B (base 16) PowerRay Co., Ltd.
7F-1, No 190, Sec 2, Chung Hsing Road, Sindian District
New Taipei City 231
TW

E4-55-EA (hex) Dedicated Computing
E455EA (base 16) Dedicated Computing
N26 W23880 Commerce Circle
Waukesha Wisconsin 53188
US

B8-9A-ED (hex) OceanServer Technology,
Inc
B89AED (base 16) OceanServer Technology, Inc
151 Martine St
Fall River MA 02723
US

20-C8-B3 (hex) SHENZHEN BUL-TECH CO.,LTD.
20C8B3 (base 16) SHENZHEN BUL-TECH CO.,LTD.
Area C,4/F,NO.59,Longjing 2nd Road,
SHENZHEN GuangDong 518101
CN

D4-F6-3F (hex) IEA S.R.L.
D4F63F (base 16) IEA S.R.L.
Eva Peron 4468
Rosario Santa Fe S2002LBQ
AR

58-B0-D4 (hex) ZuniData Systems Inc.
58B0D4 (base 16) ZuniData Systems Inc.
4F-7, No.65, Gaotia 7th Rd, Zhubei City
Hsinchu 302
TW

64-55-7F (hex) NSFOCUS Information Technology Co., Ltd.
64557F (base 16) NSFOCUS Information Technology Co., Ltd.
3/F,Ether Building, No.4 Beiwa Rd.,Haidian District
Beijing 100089
CN

98-8B-AD (hex) Corintech Ltd.

988BAD (base 16) Corintech Ltd.
Ashford Mill
Fordingbridge Hampshire SP6 1DZ
GB

D4-4B-5E (hex) TAIYO YUDEN CO., LTD.
D44B5E (base 16) TAIYO YUDEN CO., LTD.
8-1, Sakae-cho
Takasaki-shi
Gunma 370-8522
JP

64-0E-36 (hex) TAZTAG
640E36 (base 16) TAZTAG
Cicea 1
Bruz 35170
FR

C8-7D-77 (hex) Shenzhen Kingtech Communication Equipment Co.,Ltd
C87D77 (base 16) Shenzhen Kingtech Communication Equipment Co.,Ltd
Floor3.Building A,NO.3,Road 1 of shangxue Dengxinkeng Industry Park,Bantian Street,
Shenzhen City Guangdong 518112
CN

B0-5C-E5 (hex) Nokia Corporation
B05CE5 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

34-82-DE (hex) Kiio Inc
3482DE (base 16) Kiio Inc
404 Holtzman Rd
Madison WI 53713
US

94-1D-1C (hex) TLab West Systems AB
941D1C (base 16) TLab West Systems AB
Ebbe Lieberathsgatan 23B
Gothenburg 41265
SE

94-AE-61 (hex) Alcatel Lucent
94AE61 (base 16) Alcatel Lucent
Via Energy Park, 14
Vimercate MB 20871
IT

5C-18-B5 (hex) Talon Communications
5C18B5 (base 16) Talon Communications
10636
Scripps Summit Ct.
San Diego CA 92131
US

64-E1-61 (hex) DEP Corp.
64E161 (base 16) DEP Corp.
Nishi-shinjuku 6-12-7
Shinjuku Tokyo 160-0023
JP

00-64-A6 (hex) Maquet CardioVascular
0064A6 (base 16) Maquet CardioVascular
1300 MacArthur Blvd
Mahwah NJ 07430
US

7C-6B-52 (hex) Tigaro Wireless
7C6B52 (base 16) Tigaro Wireless
Shen A'ari 7
Even Yehuda 40500
IL

4C-5F-D2 (hex) Alcatel-Lucent
4C5FD2 (base 16) Alcatel-Lucent
777 East Middlefield Road
Mountain View CA 94043
US

9C-C7-D1 (hex) SHARP Corporation
9CC7D1 (base 16) SHARP Corporation
22-22,Nagaike-cho
Osaka city Osaka prefecture 545-8522
JP

14-90-90 (hex) KongTop industrial(shen zhen)CO.,LTD
149090 (base 16) KongTop industrial(shen zhen)CO.,LTD
xinwuyuan,gushu,Xixiang,Baoan,
Shenzhen Guangdong 518000
CN

28-C7-18 (hex) Altierre
28C718 (base 16) Altierre
1980 Concourse Drive
San

Jose United States 95131
US

7C-4C-58 (hex) Scale Computing, Inc.
7C4C58 (base 16) Scale Computing, Inc.
2121 El Camino Real
San Mateo UNITED STATES 94403
US

10-13-EE (hex) Justec International Technology INC.
1013EE (base 16) Justec International Technology INC.
7F-2 No 113 Zihyou Road
Hsinchu City 30041
TW

80-7A-7F (hex) ABB Genway Xiamen Electrical Equipment CO., LTD
807A7F (base 16) ABB Genway Xiamen Electrical Equipment CO., LTD
7F,No.23 Wanghai Road,Software Park 2, Lvling Road,
Xiamen Fujian Province 361008
CN

24-DA-B6 (hex) Sistemas de Gestión Energética S.A. de C.V
24DAB6 (base 16) Sistemas de Gestión Energética S.A. de C.V
Calzada de los Fresnos 70-A
Zapopan Jalisoc 45010
MX

B0-7D-62 (hex) Dipl.-Ing. H. Horstmann GmbH
B07D62 (base 16) Dipl.-Ing. H. Horstmann GmbH
Humboldtstraße 2
Heiligenhaus 42579
DE

B8-F5-E7 (hex) WayTools, LLC
B8F5E7
(base 16) WayTools, LLC
401 Wilshire Blvd.
Santa Monica CA 90401
US

B8-19-99 (hex) Nesys
B81999 (base 16) Nesys
Energeticheskaya, 1
Moscow 111116
RU

34-25-5D (hex) Shenzhen Loadcom Technology Co.,Ltd
34255D (base 16) Shenzhen Loadcom Technology Co.,Ltd

Yuehai Building A-13CD,Nanhai Road,Nanshan Area
Shenzhen Guangdong 518054
CN

38-DE-60 (hex) Mohlenhoff GmbH
38DE60 (base 16) Mohlenhoff GmbH
Museumstraße 54a
Salzgitter Niedersachsen 38229
DE

28-39-E7 (hex) Preceno Technology Pte.Ltd.
2839E7 (base 16) Preceno Technology Pte.Ltd.
11F, No.207-2, Sec. 3, Beixin Rd., Xindian Dist.
New Taipei City 23143
TW

30-68-8C (hex) Reach Technology Inc.
30688C (base 16) Reach Technology Inc.
4575 Cushing Parkway
Fremont California 94538
US

FC-00-12 (hex) Toshiba Samsung Storage Technolgoy Korea Corporation
FC0012 (base 16) Toshiba Samsung Storage Technolgoy Korea
Corporation
14 Floor, Bldg. No. 102, Digital Empire2, 486, Sin-dong, Yeongtong-gu, Suwon-si,
Su-won Gyeonggi 443-734
KR

10-EE-D9 (hex) Canoga Perkins Corporation
10EED9 (base 16) Canoga Perkins Corporation
20600 Prairie Street
Chatsworth CA 91311
US

C0-29-F3 (hex) XySystem
C029F3 (base 16) XySystem
#1304 Daerung Post Tower 5
Seoul 153-801
KR

94-DE-0E (hex) SmartOptics AS
94DE0E (base 16) SmartOptics AS
Stalfjaera 9
Oslo N-0975
NO

D4-CE-B8 (hex) Enatel LTD

D4CEB8 (base 16) Enatel LTD
66 Treffers Road
Christchurch Canterbury 8042
NZ

F8-E7-B5 (hex) µTech Tecnologia LTDA
F8E7B5 (base 16) µTech Tecnologia LTDA
Rua Lauro Linhares, 598
Florianopolis Santa Catarina 88036-200
BR

8C-27-1D (hex) QuantHouse
8C271D (base 16) QuantHouse
52 Rue de la Victoire
Paris 75009
FR

18-14-20 (hex) TEB SAS
181420 (base 16) TEB SAS
RD294 -
Corpeau
Meursault Burgundy 21190
FR

4C-A7-4B (hex) Alcatel Lucent
4CA74B (base 16) Alcatel Lucent
Via Energy Park, 14
Vimercate MB 20871
IT

1C-E1-92 (hex) Qisda Corporation
1CE192 (base 16) Qisda Corporation
157 Shan-Ying Road
Gueishan Taoyuan 333
TW

70-6F-81 (hex) Private
706F81 (base 16) Private

C4-3A-9F (hex) Siconix Inc.
C43A9F (base 16) Siconix Inc.
#28, 2333 18th Ave NE
Calgary Alberta T2E 8T6
CA

68-6E-23 (hex) Wi3 Inc.
686E23 (base 16) Wi3 Inc.
P.O. Box 1123

Pittsford NY 14534
US

DC-F0-5D (hex) Letta Teknoloji
DCF05D (base 16) Letta Teknoloji
TUBITAK Teknoloji Gelistirme Bolgesi
KOCAELI 41455
TR

8C-B8-2C (hex) IPitomy Communications
8CB82C (base 16) IPitomy Communications
1940 Northgate Boulevard
Sarasota Florida 34234
US

80-7D-E3 (hex) Chongqing Sichuan Instrument Microcircuit Co.LTD.
807DE3 (base 16) Chongqing Sichuan
Instrument Microcircuit Co.LTD.
Jinhua Road No.309, Beibei,
Chongqing 400700
CN

DC-17-5A (hex) Hitachi High-Technologies Corporation
DC175A (base 16) Hitachi High-Technologies Corporation
794, Higashitoyoi,
Kudamatsu City, Yamaguchi Pref., 744-0002,
JP

54-F5-B6 (hex) ORIENTAL PACIFIC INTERNATIONAL LIMITED
54F5B6 (base 16) ORIENTAL PACIFIC INTERNATIONAL LIMITED
5 ARGUS PLACE
NORTH SHORE CITY AUCKLAND 0627
NZ

90-34-2B (hex) Gatekeeper Systems, Inc.
90342B (base 16) Gatekeeper Systems, Inc.
8 Studebaker
Irvine CA 92618
US

5C-16-C7 (hex) Arista Networks
5C16C7 (base 16) Arista Networks
100 W Evelyn
Mountain View CA 94041
US

90-0D-66 (hex) Digimore Electronics Co., Ltd
900D66 (base 16) Digimore Electronics Co., Ltd

10 FL., No. 61, Yan-Ping South Road
Taipei 100
TW

C8-A1-BA (hex) Neul Ltd
C8A1BA (base 16) Neul Ltd
Suite 42 Innovation Centre
Cambridge
Cambs CB4 0EY
GB

3C-09-6D (hex) Powerhouse Dynamics
3C096D (base 16) Powerhouse Dynamics
1 Bridge Street
Newton MA 02458
US

AC-4A-FE (hex) Hisense Broadband Multimedia Technology Co.,Ltd.
AC4AFE (base 16) Hisense Broadband Multimedia Technology Co.,Ltd.
No.11 Jiangxi Road,Shinan District
Qingdao City Shandong Province 266071
CN

A4-B3-6A (hex) JSC SDO Chromatec
A4B36A (base 16) JSC SDO Chromatec
94, Stroiteley street
Yoshkar-Ola Mari El republic 424000
RU

F4-94-61 (hex) NexGen Storage
F49461 (base 16) NexGen Storage
400 Centennial Blvd.
Louisville CO 80027
US

0C-92-4E (hex) Rice Lake Weighing Systems
0C924E (base 16) Rice Lake Weighing Systems
230 West Coleman St
Rice Lake WI 54868
US

54-35-DF (hex) Symeo GmbH
5435DF (base 16) Symeo GmbH
Prof.-Messerschmitt-Str. 3
Neubiberg Bavaria 85579
DE

B8-CD-A7 (hex) Maxeler Technologies Ltd.

B8CDA7
(base 16) Maxeler Technologies Ltd.
1 Down Place
London UK W6 9JH
GB

F4-3D-80 (hex) FAG Industrial Services GmbH
F43D80 (base 16) FAG Industrial Services GmbH
Kaiserstrasse 100
Herzogenrath NRW 52134
DE

48-DC-FB (hex) Nokia Corporation
48DCFB (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

8C-89-A5 (hex) Micro-Star INT'L CO., LTD
8C89A5 (base 16) Micro-Star INT'L CO., LTD
No.69, Lide st.
Taipei County 235
TW

20-B7-C0 (hex) OMICRON electronics GmbH
20B7C0 (base 16) OMICRON electronics GmbH
Oberes Ried 1
Klaus 6833
AT

80-58-C5 (hex) NovaTec Kommunikationstechnik GmbH
8058C5 (base 16) NovaTec Kommunikationstechnik GmbH
Technologiepark 9
Paderborn NRW 33100
DE

B8-C7-16 (hex) Fiberhome Telecommunication Technologies Co.,LTD
B8C716 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei
430074
CN

D4-2C-3D (hex) Sky Light Digital Limited
D42C3D (base 16) Sky Light Digital Limited
Rm. 1009 Kwong Sang Hong Centre, 151-153 Hoi Bun Road, Kwun Tong, Kowloon,
Hong Kong 999077
CN

58-98-35 (hex) Technicolor Delivery Technologies Belgium NV
589835 (base 16) Technicolor Delivery Technologies Belgium NV
Prins Boudewijnlaan 47
Edegem - Belgium B-2650
BE

B4-A5-A9 (hex) MODI GmbH
B4A5A9 (base 16) MODI GmbH
Kapellenweg 21
REICHSHOF-Sinspert 51580
DE

E8-C3-20 (hex) Austco Marketing & Service (USA) ltd.
E8C320 (base 16) Austco Marketing & Service (USA) ltd.
9155 Sterling St Unit 100
Irving TX 75063
US

C4-36-DA (hex) Rusteletech Ltd.
C436DA (base 16) Rusteletech Ltd.
Ordzhonikidze Str. 11, Bldg. 40, Off. 15
Moscow 115419
RU

0C-39-56 (hex) Observator instruments
0C3956 (base 16) Observator instruments
Rietdekkerstraat 6
Ridderkerk Zuid Holland
2984 BM
NL

DC-A6-BD (hex) Beijing Lanbo Technology Co., Ltd.
DCA6BD (base 16) Beijing Lanbo Technology Co., Ltd.
Room.301.Bidg.4NO.8 Shangdi West Road, Haidian District,
Beijing City 100085
CN

A4-5A-1C (hex) smart-electronic GmbH
A45A1C (base 16) smart-electronic GmbH
Industriestrasse 29
St. Georgen Baden-Württemberg 78122
DE

80-64-59 (hex) Nimbus Inc.
806459 (base 16) Nimbus Inc.
1359 Gwanpyeong-dong, Yuseong-gu
Daejeon 305-509

KR

8C-5C-A1 (hex) d-broad,INC
8C5CA1 (base 16) d-broad,INC
3-17-5 ShinYokohama Kouhoku-Ku
Yokohama Kanagawa 222-0033
JP

F0-DB-30 (hex) Yottabyte
F0DB30 (base 16) Yottabyte
1750 S. Telegraph Road
Bloomfield Twp. MI 48302
US

9C-31-B6 (hex) Kulite Semiconductor Products Inc
9C31B6 (base 16) Kulite Semiconductor Products Inc
1 Willow Tree Rd
Leonia NJ 07605
US

E4-DD-79 (hex) En-Vision America, Inc.
E4DD79 (base 16) En-Vision
America, Inc.
1845 Hovey Ave
Normal IL 61761
US

E8-CC-32 (hex) Micronet LTD
E8CC32 (base 16) Micronet LTD
Hametzuda 27
Azor 58001
IL

D4-3A-E9 (hex) DONGGUAN ipt INDUSTRIAL CO., LTD
D43AE9 (base 16) DONGGUAN ipt INDUSTRIAL CO., LTD
No.66-1.Ist New Area, Nanshe Dist., Chigang,Humen,
Dongguan Guangdong 52390
CN

18-F6-50 (hex) Multimedia Pacific Limited
18F650 (base 16) Multimedia Pacific Limited
1 Matheson Street, Shell Tower 29F/12
000000
HK

68-84-70 (hex) eSSys Co.,Ltd
688470 (base 16) eSSys Co.,Ltd
Daerung Post Tower 5 15F, 60-3

Seoul Geumcheon-gu 153-702
KR

10-C5-86 (hex) BIO SOUND LAB CO., LTD.
10C586 (base 16) BIO SOUND LAB CO., LTD.
Suite 311, 312 SKn Techno Park
Seongnam-si Gyeonggi-do, 462-721
KR

10-76-8A (hex) EoCell
10768A (base 16) EoCell
149 Beaconsfield Street
Silverwater NSW 2128
AU

DC-16-A2 (hex) Medtronic
Diabetes
DC16A2 (base 16) Medtronic Diabetes
18000 Devonshire St
Northridge CA 91325
US

30-8C-FB (hex) Dropcam
308CFB (base 16) Dropcam
160 Spear Street
San Francisco CA 94105
US

F4-4E-FD (hex) Actions Semiconductor Co.,Ltd.(Cayman Islands)
F44EFD (base 16) Actions Semiconductor Co.,Ltd.(Cayman Islands)
Po Box 309GT,Ugland House,South Church Street,
George Town Grand Cayman
KY

24-B8-D2 (hex) Opzoon Technology Co.,Ltd.
24B8D2 (base 16) Opzoon Technology Co.,Ltd.
11th floor, Tower BÂ£Â¬Yintai Center 2 Jianguomenwai St,.
Beijing Asia 100022
CN

A4-99-81 (hex) FuJian Elite Power Tech CO.,LTD.
A49981 (base 16) FuJian Elite Power Tech CO.,LTD.
8th FloorÂ£Â¬56 GuanRi Road
Xiamen Fujian 361009
CN

54-05-5F (hex) Alcatel Lucent
54055F (base 16) Alcatel Lucent

Via Energy Park, 14
Vimercate MB 20871
IT

6C-5D-63 (hex) ShenZhen Rapoo Technology Co., Ltd.
6C5D63
(base 16) ShenZhen Rapoo Technology Co., Ltd.
Block A1,B1,B2,1st second stage, 1st Industrial Park, 3rd Industrial Zone ,Fenghuang Fuyong, BaoAn
ShenZhen 518103
CN

94-16-73 (hex) Point Core SARL
941673 (base 16) Point Core SARL
29/31 Rue du Bois Galon
FONTENAY SOUS BOIS Ile de France 94120
FR

C8-FE-30 (hex) Bejing DAYO Mobile Communication Technology Ltd.
C8FE30 (base 16) Bejing DAYO Mobile Communication Technology Ltd.
Room 712, ULO Park Building No. 601E
Beijing 100102
CN

14-3E-60 (hex) Nokia
143E60 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

5C-56-ED (hex) 3pleplay Electronics Private Limited
5C56ED (base 16) 3pleplay Electronics Private Limited
Plot No 54, Eshwarapuri Colony
Hyderabad Andhra Pradesh 500083
IN

78-02-8F (hex) Adaptive Spectrum and Signal Alignment (ASSIA), Inc.
78028F (base 16) Adaptive Spectrum and Signal Alignment (ASSIA), Inc.
333
Twin Dolphin Drive
Redwood City CA 94065
US

24-C9-DE (hex) Genoray
24C9DE (base 16) Genoray
#812 Byucksan Technopia 434-6 Sangdaewon 1-Dong
Seongnam-City Gyeonggi-Do 462-716
KR

14-07-E0 (hex) Abrantix AG
1407E0 (base 16) Abrantix AG
Foerrlibuckstrasse 66
Zuerich ZH 8005
CH

DC-CF-94 (hex) Beijing Rongcheng Hutong Technology Co., Ltd.
DCCF94 (base 16) Beijing Rongcheng Hutong Technology Co., Ltd.
Room 401A,Building No.4,Yard No.5,
Beijing 100024
CN

A4-DB-2E (hex) Kingspan Environmental Ltd
A4DB2E (base 16) Kingspan Environmental Ltd
180 Gilford Road
Portadown Armagh BT63 5LF
GB

B8-3A-7B (hex) Worldplay (Canada) Inc.
B83A7B (base 16) Worldplay (Canada) Inc.
803 - 24th Ave SE, Unit 200
Calgary Alberta T2G 1P5
CA

D0-EB-9E (hex) Seowoo Inc.
D0EB9E (base 16) Seowoo Inc.
#B101 Seojung B/D, 590-9 Guui-dong, Gwangjin-gu,
Seoul 143-831
KR

04-32-F4
(hex) Partron
0432F4 (base 16) Partron
22-6, Seokwoo-dong
Hwaseong-si Gyeonggi-do 445-170
KR

1C-18-4A (hex) ShenZhen RicherLink Technologies Co.,LTD
1C184A (base 16) ShenZhen RicherLink Technologies Co.,LTD
703,Building W1-A,High-Tech Industrial Park,KeJiNan 1st Road,NanShan,
ShenZhen GuangDong 518057
CN

BC-CD-45 (hex) VOISMART
BCCD45 (base 16) VOISMART
VIA BENIGNO CRESPI 12
MILANO 20159
IT

70-A4-1C (hex) Advanced Wireless Dynamics S.L.
70A41C (base 16) Advanced Wireless Dynamics S.L.
Centro de Empresas UPM oficina 3
Pozuelo de Alarcon Madrid 28223
ES

D4-94-5A (hex) COSMO CO., LTD
D4945A (base 16) COSMO CO., LTD
1-12, Higashi-Gotanda 2-chome
Shinagawa-ku Tokyo 141-0022
JP

30-4C-7E (hex) Panasonic Electric Works Automation Controls Techno Co.,Ltd.
304C7E (base 16) Panasonic Electric Works Automation Controls Techno Co.,Ltd.
2-9-18 Chidori
Oota-ku
Tokyo 146-8540
JP

5C-F2-07 (hex) Speco Technologies
5CF207 (base 16) Speco Technologies
200 New Highway
Amityville New York 11701
US

70-32-D5 (hex) Athena Wireless Communications Inc
7032D5 (base 16) Athena Wireless Communications Inc
12425 W Bell Rd
Surprise AZ 85378
US

78-51-0C (hex) LiveU Ltd.
78510C (base 16) LiveU Ltd.
5 Hagavish St.
Kfar-Saba 44641
IL

44-AA-E8 (hex) Nanotec Electronic GmbH & Co. KG
44AAE8 (base 16) Nanotec Electronic GmbH & Co. KG
Gewerbestrasse 11
Landsham Bavaria 85652
DE

10-37-11 (hex) NORBIT ITS
103711 (base 16) NORBIT ITS
Otto Nielsens Veg 12
Trondheim N-7004

NO

D4-28-B2 (hex) ioBridge, Inc.
D428B2 (base 16) ioBridge, Inc.
225 Cedar Hill Street
Marlborough MA 01752
US

84-27-CE (hex) Corporation of the Presiding Bishop of The Church of Jesus Christ of Latter-day Saints
8427CE (base 16) Corporation of the Presiding
Bishop of The Church of Jesus Christ of Latter-day Saints
Audiovisual Engineering - 2LL
Salt Lake City UT 84150
US

48-D8-FE (hex) ClarIDy Solutions, Inc.
48D8FE (base 16) ClarIDy Solutions, Inc.
7F, No.9, ParkAvenue II Rd., Hsinchu Science Park,
Hsinchu 300
TW

70-E8-43 (hex) Beijing C&W Optical Communication Technology Co.,Ltd.
70E843 (base 16) Beijing C&W Optical Communication Technology Co.,Ltd.
2/F Yufa Plaza, No.19 Xiaoying Beilu, Chaoyang District,
Beijing 100101
CN

2C-7E-CF (hex) Onzo Ltd
2C7ECF (base 16) Onzo Ltd
6 Great Newport Street
London WC2H 7JB
GB

74-B0-0C (hex) Network Video Technologies, Inc
74B00C (base 16) Network Video Technologies, Inc
4005 Bohannon Drive
Menlo Park CA 94025
US

B4-2A-39 (hex) ORBIT MERRET, spol. s r. o.
B42A39 (base 16) ORBIT MERRET, spol. s r. o.
Vodnanska 675/30
Praha 198 00
CZ

E4-D7-1D (hex) Oraya Therapeutics
E4D71D

(base 16) Oraya Therapeutics
8000 Jarvis Avenue Ste. 200
Newark CA 94560
US

BC-BB-C9 (hex) Kellendonk Elektronik GmbH
BCBBC9 (base 16) Kellendonk Elektronik GmbH
Butzweilerhof Allee 4
Cologne NRW 50829
DE

E8-40-40 (hex) Cisco Systems, Inc
E84040 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

D8-9D-B9 (hex) eMegatech International Corp.
D89DB9 (base 16) eMegatech International Corp.
Room 403, No.24 Wucyuan 2nd Rd.,
Sinjhuang City, Taipei County, 238
TW

B4-B8-8D (hex) Thuh Company
B4B88D (base 16) Thuh Company
605 Territorial Dr
Bolingbrook IL 60440
US

4C-73-A5 (hex) KOVE
4C73A5 (base 16) KOVE
14 N. Peoria Street
Chicago IL 60607
US

40-5A-9B (hex) ANOVO
405A9B (base 16) ANOVO
ZI de Bracheux
BEAUVAIS 60000
FR

D0-75-BE (hex) Reno A&E
D075BE (base 16) Reno A&E
4655 Aircenter Circle
Reno
Nevada 89502
US

E4-2A-D3 (hex) Magneti Marelli S.p.A. Powertrain
E42AD3 (base 16) Magneti Marelli S.p.A. Powertrain
Via del Timavo 33
Bologna 40128
IT

E8-3E-B6 (hex) RIM
E83EB6 (base 16) RIM
Phillip Street
Waterloo Ontario N2L 3W8
CA

BC-35-E5 (hex) Hydro Systems Company
BC35E5 (base 16) Hydro Systems Company
3798 Round Bottom Road
Cincinnati Ohio 45244
US

28-CC-FF (hex) Corporacion Empresarial Altra SL
28CCFF (base 16) Corporacion Empresarial Altra SL
Marie Curie 21
Malaga 29590
ES

94-FD-1D (hex) WhereWhen Corp
94FD1D (base 16) WhereWhen Corp
96A Flynn Avenue
Mountain View California 94043
US

4C-07-C9 (hex) COMPUTER OFFICE Co.,Ltd.
4C07C9 (base 16) COMPUTER OFFICE Co.,Ltd.
1368-10 Muramatsu-cho
Ise-shi Mie-ken 515-0507
JP

00-B3-42 (hex) MacroSAN Technologies Co., Ltd.
00B342 (base 16) MacroSAN Technologies Co., Ltd.
Room
102, No.2 Building
Hangzhou Zhejiang 310052
CN

1C-F5-E7 (hex) Turtle Industry Co., Ltd.
1CF5E7 (base 16) Turtle Industry Co., Ltd.
1-12-4 Nishineminami
Tsutiura Ibaraki 300-0842
JP

98-0E-E4 (hex) Private
980EE4 (base 16) Private

44-7D-A5 (hex) VTION INFORMATION TECHNOLOGY (FUJIAN) CO.,LTD
447DA5 (base 16) VTION INFORMATION TECHNOLOGY (FUJIAN) CO.,LTD
Room 502, Wing A, World Trade Center
Beijing,
CN

0C-CD-D3 (hex) EASTRIVER TECHNOLOGY CO., LTD.
0CCDD3 (base 16) EASTRIVER TECHNOLOGY CO., LTD.
30 JINNIU XINCUN
DONGGUAN GUANGDONG 523010
CN

9C-5D-95 (hex) VTC Electronics Corp.
9C5D95 (base 16) VTC Electronics Corp.
5F,No.21,Sec.6,Zhongxiao E.Rd.,Nangang District
Taipei 11575
TW

B8-A8-AF (hex) Logic S.p.A.
B8A8AF (base 16) Logic S.p.A.
Via Galilei 5
Cassina de' Pecchi MI 20060
IT

60-F6-73 (hex) TERUMO CORPORATION
60F673 (base 16) TERUMO CORPORATION
1500,Inokuchi,Nakai-machi
Ashigarakami-gun
Kanagawa 259-0151
JP

F8-76-9B (hex) Neopis Co., Ltd.
F8769B (base 16) Neopis Co., Ltd.
#401 Neo bd., 196-44 Anyang7-Dong
Anyang Kyonggi-Do 430-857
KR

E0-69-95 (hex) PEGATRON CORPORATION
E06995 (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

84-DE-3D (hex) Crystal Vision Ltd

84DE3D (base 16) Crystal Vision Ltd
Lion Technology park
Whittlesford/ Cambridge Cambs CB22 4WL
GB

C8-9C-1D (hex) Cisco Systems, Inc
C89C1D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

BC-6E-76 (hex) Green Energy Options Ltd
BC6E76 (base 16) Green Energy Options Ltd
3 St. Mary's Court, Main Street
Cambridge Cambridgeshire CB23 7QS
GB

E8-28-D5 (hex) Cots Technology
E828D5 (base 16) Cots Technology
C-702, Bundang Techno Park, 145,
Sungnam-City Kyounggi-do
463-760
KR

F8-DA-F4 (hex) Taishan Online Technology Co., Ltd.
F8DAF4 (base 16) Taishan Online Technology Co., Ltd.
4/F Fangda Building, South Area, Hi-tech Industial Park,
Shenzhen Guangdong 518057
CN

08-D5-C0 (hex) Seers Technology Co., Ltd
08D5C0 (base 16) Seers Technology Co., Ltd
1210 Techcenter, SKnTechnopark, 190-1
Seongnam-si Gyeonggi-do 462-721
KR

6C-33-A9 (hex) Magicjack LP
6C33A9 (base 16) Magicjack LP
5700 Georgia Avenue
West Palm Beach FL 33405
US

10-8C-CF (hex) Cisco Systems, Inc
108CCF (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E0-A1-D7 (hex) SFR
E0A1D7 (base 16) SFR
40/42 Quai du point du jour
Boulogne Billancourt Hauts de Seine 92659
FR

94-81-A4 (hex) Azuray Technologies
9481A4 (base 16) Azuray Technologies
7470 SW Bridgeport Rd
Durham OR 97224
US

BC-E0-9D (hex) Eoslink
BCE09D (base 16) Eoslink
#602,
900-1
Anyang-City Kyonggi-Do 431-060
KR

CC-76-69 (hex) SEETECH
CC7669 (base 16) SEETECH
19-15, Seoku-dong
Hwasung-si Gyeonggi-do 445-170
KR

AC-20-AA (hex) DMATEK Co., Ltd.
AC20AA (base 16) DMATEK Co., Ltd.
11F.-2, No.386, Shizheng Rd., Xitun Dist.,
Taichung 40757
TW

E4-37-D7 (hex) HENRI DEPAEPE S.A.S.
E437D7 (base 16) HENRI DEPAEPE S.A.S.
75/77 RUE DU PRE BROCHET
SANNOIS 95112
FR

BC-43-77 (hex) Hang Zhou Huite Technology Co.,ltd.
BC4377 (base 16) Hang Zhou Huite Technology Co.,ltd.
Rm1338,Block A¬FuLi Technology Building ,No.328,WenEr Rd
Hang Zhou Zhe Jiang 310012
CN

34-6F-92 (hex) White Rodgers Division
346F92 (base 16) White Rodgers Division
8100 West Florissant
St. Louis MO 63136
US

7C-DD-90 (hex) Shenzhen Ogemray Technology Co., Ltd.
7CDD90 (base 16) Shenzhen Ogemray Technology Co., Ltd.
3 Floor, 9 Building, Minxing Industrial
Zone,
Shenzhen Guangdong 518131
CN

9C-22-0E (hex) TASCAN Systems GmbH
9C220E (base 16) TASCAN Systems GmbH
Max-Planck-Str. 38
Cologne Köln 50858
DE

0C-3C-65 (hex) Dome Imaging Inc
0C3C65 (base 16) Dome Imaging Inc
400 Fifth Av
Waltham MA 02451
US

C8-DF-7C (hex) Nokia Corporation
C8DF7C (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

E4-6C-21 (hex) messMa GmbH
E46C21 (base 16) messMa GmbH
Am Stadtfeld 8
Ixleben Sachsen-Anhalt 39167
DE

00-B0-33 (hex) OAO Izhevskiy radiozavod
00B033 (base 16) OAO Izhevskiy radiozavod
19 Bazisnaya street
Izhevsk Udmurt Republic 426034
RU

08-17-35 (hex) Cisco Systems, Inc
081735 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

CC-BE-71 (hex) OptiLogix BV
CCBE71 (base 16) OptiLogix BV
Joop Geesinkweg 999
Amsterdam NH 1096AZ

NL

0C-46-9D (hex) MS Sedco
0C469D
(base 16) MS Sedco
8701 Castle Park Drive
Indianapolis 46256
US

D8-E3-AE (hex) CIRTEC MEDICAL SYSTEMS
D8E3AE (base 16) CIRTEC MEDICAL SYSTEMS
101B Cooper Court
Los Gatos CA 95032
US

08-B7-EC (hex) Wireless Seismic
08B7EC (base 16) Wireless Seismic
13100 SW Freeway
Sugar Land TX 77478
US

18-AF-9F (hex) DIGITRONIC Automationsanlagen GmbH
18AF9F (base 16) DIGITRONIC Automationsanlagen GmbH
Auf der Langwies 1
Wallbach Hessen 65510
DE

FC-AF-6A (hex) Qulsar Inc
FCAF6A (base 16) Qulsar Inc
Torshamnsgatan 35
Kista SE-16440
SE

14-EE-9D (hex) AirNav Systems LLC
14EE9D (base 16) AirNav Systems LLC
4660 La Jolla Village Dr. - Suite 500
San Diego California CA 92122
US

78-D0-04 (hex) Neousys Technology Inc.
78D004 (base 16) Neousys Technology Inc.
13F.-1, NO.1, BAOSHENG RD.,
YONGHE CITY TAIPEI COUNTY 23444
TW

88-95-B9 (hex) Unified
Packet Systems Crop
8895B9 (base 16) Unified Packet Systems Crop

1F., No32,Lane 15,SEC 6, MinQuan E Rd.,
Taipei Neihu 114
TW

78-A0-51 (hex) iiNet Labs Pty Ltd
78A051 (base 16) iiNet Labs Pty Ltd
Level 1
Subiaco WA 6008
AU

E0-F3-79 (hex) Vaddio
E0F379 (base 16) Vaddio
9433 Science Center Drive
New Hope MN 55428
US

78-B6-C1 (hex) AOBO Telecom Co.,Ltd
78B6C1 (base 16) AOBO Telecom Co.,Ltd
Room1508,Jiangong Building
Hangzhou ZheJiang 310012
CN

B0-9A-E2 (hex) STEMMER IMAGING GmbH
B09AE2 (base 16) STEMMER IMAGING GmbH
Gutenbergstraße 11
Puchheim By 82178
DE

34-BD-F9 (hex) Shanghai WDK Industrial Co.,Ltd.
34BDF9 (base 16) Shanghai WDK Industrial Co.,Ltd.
No.2100,Songzhen Road,Songjiang District
Shanghai 201606
CN

B4-4C-C2 (hex) NR ELECTRIC CO., LTD
B44CC2 (base 16) NR ELECTRIC CO., LTD
69,Suyuan Avenue
Nanjing Jiangsu 211102
CN

48-CB-6E
(hex) Cello Electronics (UK) Ltd
48CB6E (base 16) Cello Electronics (UK) Ltd
Cliff Lodge
Leyburn North Yorkshire DL8 5NS
GB

80-4F-58 (hex) ThinkEco, Inc.

804F58 (base 16) ThinkEco, Inc.
303 Fifth Avenue
New York NY 10016
US

D8-FE-8F (hex) IDFone Co., Ltd.
D8FE8F (base 16) IDFone Co., Ltd.
7F Ace techno tower 5th B/D, 197-22
Guro-dong, Guro-gu Seoul 152-766
KR

88-8C-19 (hex) Brady Corp Asia Pacific Ltd
888C19 (base 16) Brady Corp Asia Pacific Ltd
1, Kaki Bukit Crescent
416236
SG

08-D2-9A (hex) Proformatique
08D29A (base 16) Proformatique
10 bis rue Lucien Voilin
Puteaux 92800
FR

C8-93-83 (hex) Embedded Automation, Inc.
C89383 (base 16) Embedded Automation, Inc.
17345 Abbey Drive
Surrey BC V4N 4M3
CA

00-6D-FB (hex) Vutrix Technologies Ltd
006DFB (base 16) Vutrix Technologies Ltd
Unit 1 Red Lodge Business Park
Weston-super-mare
North Somerset BS24 7TN
GB

90-67-B5 (hex) Alcatel-Lucent
9067B5 (base 16) Alcatel-Lucent
600-700 Mountain Ave.
Murray Hiill NJ 07974-0636
US

44-8C-52 (hex) KTIS CO., Ltd
448C52 (base 16) KTIS CO., Ltd
1208ho-103dong
Ojung-Gu, Bucheon-si Gyeonggi-do 421-808
KR

04-75-F5 (hex) CSST
0475F5 (base 16) CSST
Building 6, CSST industrial park, Tong fuyu Industrial zone
Shenzhen Guangdong 518107
CN

C8-A7-29 (hex) SYStronics Co., Ltd.
C8A729 (base 16) SYStronics Co., Ltd.
#301-1404, Buchun Techno-Park II
Buchun City Kyung gi-do 421-741
KR

44-54-C0 (hex) Thompson Aerospace
4454C0 (base 16) Thompson Aerospace
18 Technology
Irvine CA 92618
US

64-31-7E (hex) Dexin Corporation
64317E (base 16) Dexin Corporation
14F-8, No. 258, Lian Cheng Rd.
Chung Ho City, Taipei Hsien 235
TW

3C-99-F7 (hex) Lansentechnology AB
3C99F7 (base 16) Lansentechnology AB
Rörkullsvägen
4
Halmstad 30241
SE

8C-4D-EA (hex) Cerio Corporation
8C4DEA (base 16) Cerio Corporation
4F.-3., No.192, Sec. 2, Zhongxing Rd., Xindian Dist.
New Taipei City 231
TW

E8-0C-38 (hex) DAEYOUNG INFORMATION SYSTEM CO., LTD
E80C38 (base 16) DAEYOUNG INFORMATION SYSTEM CO., LTD
#826 TAMNIP-DONG, YUSEONG-GO,
DAEJON 305-510
KR

34-DF-2A (hex) Fujikon Industrial Co.,Limited
34DF2A (base 16) Fujikon Industrial Co.,Limited
16/F., Tower 1, Grand Central Plaza,138 Shatin Rural
523930
HK

70-A1-91 (hex) Trendsetter Medical, LLC
70A191 (base 16) Trendsetter Medical, LLC
2030 Ardmore BLVD
Pittsburgh PA 15221
US

24-BA-30 (hex) Technical Consumer Products, Inc.
24BA30 (base 16) Technical Consumer Products, Inc.
325 Campus Drive
Aurora OH 44202
US

E0-8A-7E (hex) Exponent
E08A7E (base 16) Exponent
149 Commonwealth Drive
Menlo Park CA 94025
US

18-8E-D5
(hex) TP Vision Belgium N.V. - innovation site Brugge
188ED5 (base 16) TP Vision Belgium N.V. - innovation site Brugge
Pathoekeweg 11
Bruges West Flanders 8000
BE

40-B2-C8 (hex) Nortel Networks
40B2C8 (base 16) Nortel Networks
CARRETERA BASE AEREA # 5850
Zapopan Jalisco 44130
MX

70-8B-78 (hex) citygrow technology co., ltd
708B78 (base 16) citygrow technology co., ltd
rm1404, blk A, ,5 - 21 Pak Tin Par Street
Tsuen Wan
HK

A8-B0-AE (hex) BizLink Special Cables Germany GmbH
A8B0AE (base 16) BizLink Special Cables Germany GmbH
Eschstrasse 1
Friesoythe 26169
DE

E4-27-71 (hex) Smartlabs
E42771 (base 16) Smartlabs
72, Oktyabrskaya Street
Moscow 127521

RU

70-B0-8C (hex) Shenou Communication Equipment Co.,Ltd
70B08C (base 16) Shenou Communication Equipment Co.,Ltd
No.118 Middle Juguang Road, High & New Industrial Zone
Wenzhou Zhejiang 325029
CN

C0-3B-8F
(hex) Minicom Digital Signage
C03B8F (base 16) Minicom Digital Signage
24 Hebron Road
Jerusalem 93542
IL

20-FE-DB (hex) M2M Solution S.A.S.
20FEDB (base 16) M2M Solution S.A.S.
Centre d'Affaires Regus Bat.D
Mougins 06254
FR

44-91-DB (hex) Shanghai Huaqin Telecom Technology Co.,Ltd
4491DB (base 16) Shanghai Huaqin Telecom Technology Co.,Ltd
No.1 Building,399 Keyuan Road, Zhangjian Hi-Tech Park,
shanghai shanghai 201203
CN

C4-F4-64 (hex) Spica international
C4F464 (base 16) Spica international
Pot k sejmiscu 33
Ljubljana 1000
SI

60-2A-54 (hex) CardioTek B.V.
602A54 (base 16) CardioTek B.V.
Amerikalaan 70
Maastricht Airport Limburg 6199AE
NL

BC-FF-AC (hex) TOPCON CORPORATION
BCFFAC (base 16) TOPCON CORPORATION
75-1, Hasunuma-cho
Itabashi-ku TOKYO 174-8580
JP

14-D7-6E (hex) CONCH ELECTRONIC Co.,Ltd
14D76E (base 16) CONCH ELECTRONIC

Co.,Ltd
No.3 Keji 1st Load.
Tainan 70955
TW

50-7D-02 (hex) BIODIT
507D02 (base 16) BIODIT
Calle Gustave Eiffel 3
Paterna Valencia 46980
ES

B4-A4-E3 (hex) Cisco Systems, Inc
B4A4E3 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

94-DD-3F (hex) A+V Link Technologies, Corp.
94DD3F (base 16) A+V Link Technologies, Corp.
5F., No.550, Xianzheng 2nd Rd.
Zhubei City Hsinchu Country 30268
TW

C8-A1-B6 (hex) Shenzhen Longway Technologies Co., Ltd
C8A1B6 (base 16) Shenzhen Longway Technologies Co., Ltd
Suite 707,Incubation Building, China Academy of Science&Tech Development, South area
Shenzhen Guangdong 518057
CN

A8-55-6A (hex) 3S System Technology Inc.
A8556A (base 16) 3S System Technology Inc.
6F, No. 5, Ln. 16, Sec. 2, Sichuan Rd., Banqiao Dist.,
New Taipei City 220620
TW

D0-57-4C (hex) Cisco Systems, Inc
D0574C (base 16) Cisco Systems,
Inc
80 West Tasman Drive
San Jose CA 94568
US

F8-DA-E2 (hex) NDC Technologies
F8DAE2 (base 16) NDC Technologies
8001 Technology Blvd
Dayton OH 45424
US

F4-42-27 (hex) S & S Research Inc.
F44227 (base 16) S & S Research Inc.
89 Access Rd #10
Norwood MA 02062
US

8C-1F-94 (hex) RF Surgical System Inc.
8C1F94 (base 16) RF Surgical System Inc.
9740 Appaloosa Road
San Diego CA 92131
US

AC-83-F0 (hex) Cobalt Digital Inc.
AC83F0 (base 16) Cobalt Digital Inc.
2506 Galen Drive
Champaign IL 61821
US

CC-6B-98 (hex) Minetec Wireless Technologies
CC6B98 (base 16) Minetec Wireless Technologies
10 Kembla Way
Willetton WA 6155
AU

3C-04-BF (hex) PRAVIS SYSTEMS Co.Ltd.,
3C04BF (base 16) PRAVIS SYSTEMS Co.Ltd.,
4F, 5F Jaeyoon Bld, 75-3 Yangjae-Dong,
Seoul Seocho-Gu 137-889
KR

7C-55-E7 (hex) YSI, Inc.
7C55E7 (base 16) YSI, Inc.
1725
Brannum Lane
Yellow Springs Ohio 45387
US

70-5E-AA (hex) Action Target, Inc.
705EAA (base 16) Action Target, Inc.
PO Box 636
Provo UT 84603
US

34-F9-68 (hex) ATEK Products, LLC
34F968 (base 16) ATEK Products, LLC
210 NE 10th Avenue
Brainerd MN 56401
US

44-5E-F3 (hex) Tonalite Holding B.V.
445EF3 (base 16) Tonalite Holding B.V.
Nieuw Amsterdamsestraat 40
Emmen Drenthe 7814 VA
NL

68-DB-96 (hex) OPWILL Technologies CO .,LTD
68DB96 (base 16) OPWILL Technologies CO .,LTD
Room 415,Digital Media Building,NO.7 Shangdi Information Road,HaiDian District,
Beijing 100085
CN

94-A7-BC (hex) BodyMedia, Inc.
94A7BC (base 16) BodyMedia, Inc.
420 Fort Duquesne Blvd
Pittsburgh PA 15222
US

B4-C8-10 (hex) Umpi srl
B4C810 (base 16) Umpi srl
Via Consolare Rimini-San Marino, 11
Rimini 47923
IT

58-50-76 (hex) Linear Equipamentos Eletronicos SA
585076 (base
16) Linear Equipamentos Eletronicos SA
Praca Linear 100
Santa Rita do Sapucai MG 37540000
BR

F0-F9-F7 (hex) IES GmbH & Co. KG
F0F9F7 (base 16) IES GmbH & Co. KG
Darmcher Grund 22
Meinerzhagen 58540
DE

64-A2-32 (hex) OOO Samlight
64A232 (base 16) OOO Samlight
44A, Dubninskaya str.,
Moscow 127591
RU

64-FC-8C (hex) Zonar Systems
64FC8C (base 16) Zonar Systems
18200 Cascade Ave South
Seattle WA 98118

US

0C-8D-98 (hex) TOP EIGHT IND CORP
0C8D98 (base 16) TOP EIGHT IND CORP
8F.,No79-1 Zhouzi St., Neihu District, Taipei City (Neihu Technology Park)
Taipei 11493
TW

98-03-A0 (hex) ABB n.v. Power Quality Products
9803A0 (base 16) ABB n.v. Power Quality Products
10 allée centrale
Jumet 6040
BE

DC-FA-D5 (hex) STRONG Ges.m.b.H.
DCFAD5 (base 16) STRONG Ges.m.b.H.
Franz-Josefs-Kai 1
Vienna 1010
AT

6C-8D-65 (hex) Wireless Glue Networks,
Inc.
6C8D65 (base 16) Wireless Glue Networks, Inc.
1601 N. Main Street, Suite 202
Walnut Creek CA 94596
US

40-C7-C9 (hex) Naviit Inc.
40C7C9 (base 16) Naviit Inc.
3058A Scott Blvd.
Santa Clara CA 95054
US

7C-BB-6F (hex) Cosco Electronics Co., Ltd.
7CBB6F (base 16) Cosco Electronics Co., Ltd.
#1101, ENC Dream tower, 327-27
Seoul 153-793
KR

20-B0-F7 (hex) Enclustra GmbH
20B0F7 (base 16) Enclustra GmbH
Technoparkstrasse 1
Zurich ZH CH-8005
CH

54-31-31 (hex) Raster Vision Ltd
543131 (base 16) Raster Vision Ltd
Unit 1, Crundalls

Tonbridge Kent TN12 7EA
GB

D0-E3-47 (hex) Yoga
D0E347 (base 16) Yoga
Tammsaare tee 47
Tallinn Harjumaa 11316
EE

38-58-0C (hex) Panaccess Systems GmbH
38580C (base 16) Panaccess Systems GmbH
Gutenbergstr. 8
Ismaning BY 85737
DE

44-51-DB (hex) Raytheon BBN Technologies
4451DB (base 16) Raytheon BBN Technologies
10
Moulton Street
Cambridge MA 02138
US

F0-ED-1E (hex) Bilkon Bilgisayar Kontrollu Cih. Im.Ltd.
F0ED1E (base 16) Bilkon Bilgisayar Kontrollu Cih. Im.Ltd.
Gersan Sanayi Sitesi 658.Sokak No:16
ANKARA 06370
TR

F8-C0-91 (hex) Highgates Technology
F8C091 (base 16) Highgates Technology
1415 Highgates Ave
Los Angeles CA 90042
US

AC-9B-84 (hex) Smak Tecnologia e Automacao
AC9B84 (base 16) Smak Tecnologia e Automacao
Av. Sto. Antonio, 201 - Bela Vista
Osasco São Paulo CEP 06086-075
BR

90-F2-78 (hex) Radius Gateway
90F278 (base 16) Radius Gateway
520 E. Montford Ave
Ada OH 45810
US

80-66-29 (hex) Prescope Technologies CO.,LTD.
806629 (base 16) Prescope Technologies CO.,LTD.

12F-1,No.192,Sec 2,Chung Hsin Road
Hsin Tien City Taipei County 23146
TW

4C-60-D5 (hex) airPointe of New Hampshire
4C60D5 (base 16) airPointe of New Hampshire
35E Industrial
Way
Rochester NH 03867
US

C4-16-FA (hex) Prysm Inc
C416FA (base 16) Prysm Inc
180 Baytech Drive
San Jose California 95134
US

50-6F-9A (hex) Wi-Fi Alliance
506F9A (base 16) Wi-Fi Alliance
3925 W. Braker Lane
Austin TX 78759
US

84-29-14 (hex) EMPORIA TELECOM Produktions- und VertriebsgesmbH & Co KG
842914 (base 16) EMPORIA TELECOM Produktions- und VertriebsgesmbH & Co KG
Industriezeile 36,
Linz 4020
AT

BC-7D-D1 (hex) Radio Data Comms
BC7DD1 (base 16) Radio Data Comms
5/20-30 Stubbs Street
Silverwater New South Wales (NSW) 2128
AU

64-67-07 (hex) Beijing Omnific Technology, Ltd.
646707 (base 16) Beijing Omnific Technology, Ltd.
Rm. 402, Building 1, Shui Mu Qing Hua Community
Beijing 100190
CN

58-FD-20 (hex) Systemhouse Solutions AB
58FD20 (base 16) Systemhouse Solutions AB
Mikrofonvagen 28
STOCKHOLM 126 81
SE

24-1F-2C (hex) Calsys, Inc.

241F2C
(base 16) Calsys, Inc.
2700 Augustine drive, Ste145
Santa Clara California 95054
US

F0-BD-F1 (hex) Sipod Inc.
F0BDF1 (base 16) Sipod Inc.
4633 Old Ironsides Drive, #400
Santa Clara CA 95054
US

CC-43-E3 (hex) Trump s.a.
CC43E3 (base 16) Trump s.a.
rue de la Maitrise 9
Nivelles 1400
BE

40-40-22 (hex) ZIV
404022 (base 16) ZIV
Polígono Parque Tecnológico, 210
ZAMUDIO VIZCAYA 48170
ES

A8-5B-B0 (hex) Shenzhen Dehoo Technology Co.,Ltd
A85BB0 (base 16) Shenzhen Dehoo Technology Co.,Ltd
5C,Tianzhan Building Tianan Cyberpark,
ShenZhen Guang Dong 518040
CN

AC-A0-16 (hex) Cisco Systems, Inc
ACA016 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

58-E7-47 (hex) Deltanet AG
58E747 (base 16) Deltanet AG
Riedstrasse 8
Dietikon Zurich 8953
CH

40-61-8E (hex) Stella-Green Co
40618E (base 16) Stella-Green Co
1-5-16
Edobori, Nishi-ku
Osaka 550-0002
JP

68-E4-1F (hex) Unglaube Identech GmbH
68E41F (base 16) Unglaube Identech GmbH
An der Moosach 3a
Massenhausen Bayern 85376
DE

08-76-95 (hex) Auto Industrial Co., Ltd.
087695 (base 16) Auto Industrial Co., Ltd.
14Floor, #235 Hanshin IT Tower,
Seoul 152-768
KR

AC-CE-8F (hex) HWA YAO TECHNOLOGIES CO., LTD
ACCE8F (base 16) HWA YAO TECHNOLOGIES CO., LTD
NO. 6, LN. 48, NANSING RD.,
YONGKANG CITY, TAINAN COUNTY 710
TW

8C-92-36 (hex) Aus.Linx Technology Co., Ltd.
8C9236 (base 16) Aus.Linx Technology Co., Ltd.
6F-2, No. 190, Sec. 2, Zhongxing Rd., Xindian Dist.,
New Taipei City 23146
TW

F8-91-2A (hex) GLP German Light Products GmbH
F8912A (base 16) GLP German Light Products GmbH
Im Stöckmädle 13
Karlsbad BW 76307
DE

10-C7-3F (hex) Midas Klark Teknik Ltd
10C73F (base 16) Midas Klark Teknik Ltd
Klark Teknik Building
Kidderminster
Worcestershire DY11 7HJ
GB

D4-82-3E (hex) Argosy Technologies, Ltd.
D4823E (base 16) Argosy Technologies, Ltd.
73-221 Haystack Road
Palm Desert CA 92260
US

00-93-63 (hex) Uni-Link Technology Co., Ltd.
009363 (base 16) Uni-Link Technology Co., Ltd.
7-5, No.66, Sec.2, Nan-Kan Rd., Lu-Chu Hsiang,Taoyuan,Taiwan
Taoyuan Taiwan 338

TW

7C-76-73 (hex) ENMAS GmbH
7C7673 (base 16) ENMAS GmbH
Holzkoppelweg 23
Kiel Schleswig-Holstein 24251
DE

38-9F-83 (hex) OTN Systems N.V.
389F83 (base 16) OTN Systems N.V.
Industrielaan 17b
Olen 2250
BE

BC-6A-16 (hex) tdvine
BC6A16 (base 16) tdvine
301 Maison Maru Building
Seoul 135-010
KR

00-3A-9D (hex) NEC Platforms, Ltd.
003A9D (base 16) NEC Platforms, Ltd.
800 Shimomata
Kakegawa Shizuoka 436-8501
JP

00-35-32 (hex) Electro-Metrics Corporation
003532 (base 16) Electro-Metrics Corporation
231
Enterprise Road
Johnstown New York 12095
US

08-1F-F3 (hex) Cisco Systems, Inc
081FF3 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

44-37-6F (hex) Young Electric Sign Co
44376F (base 16) Young Electric Sign Co
1651 N 1000 W
Logan UT 84321
US

6C-DC-6A (hex) Promethean Limited
6CDC6A (base 16) Promethean Limited
Activlab

Blackburn Lancashire BB1 5SN
GB

90-55-AE (hex) Ericsson, EAB/RWI/K
9055AE (base 16) Ericsson, EAB/RWI/K
Skolgången 17
Gävle SE-800 06
SE

84-C7-27 (hex) Gnodal Ltd
84C727 (base 16) Gnodal Ltd
178 - 180 Hotwell Road
Bristol BS8 4RP
GB

28-CD-4C (hex) Individual Computers GmbH
28CD4C (base 16) Individual Computers GmbH
Im Zemmer 6
Woffelsbach NRW 52152
DE

8C-53-F7 (hex) A&D ENGINEERING CO., LTD.
8C53F7 (base 16) A&D ENGINEERING CO., LTD.
336-6 Dangsandong 6-ga, Yeongdeungpo-gu
Seoul
150-810
KR

88-87-17 (hex) CANON INC.
888717 (base 16) CANON INC.
3-30-2
Ohta-Ku Tokyo 146-8501
JP

44-A6-89 (hex) PROMAX ELECTRONICA SA
44A689 (base 16) PROMAX ELECTRONICA SA
FRANCESC MORAGAS 71-75
HOSPITALET DE LLOBREGAT BARCELONA 08907
ES

10-10-B6 (hex) McCain Inc
1010B6 (base 16) McCain Inc
2365 Oak Ridge Way
Vista CA 92081
US

F0-24-08 (hex) Talaris (Sweden) AB
F02408 (base 16) Talaris (Sweden) AB

Taljs Sodra Industriomrade
Flen 64284
SE

80-81-A5 (hex) TONGQING COMMUNICATION EQUIPMENT (SHENZHEN) Co.,Ltd
8081A5 (base 16) TONGQING COMMUNICATION EQUIPMENT (SHENZHEN) Co.,Ltd
Tongqing Industry Park,jiuwei,xixiang Town,Baoan District,
Shenzhen Guangdong 518126
CN

44-E4-9A (hex) OMNITRONICS PTY LTD
44E49A (base 16) OMNITRONICS PTY LTD
27 SARICH CRT
OSBORNE PARK WA 6017
AU

08-F2-F4 (hex) Net One Partners Co.,Ltd.
08F2F4 (base 16) Net
One Partners Co.,Ltd.
2-8 Higashi Shinagawa 2-chome,
Tokyo 1400002
JP

0C-7D-7C (hex) Kexiang Information Technology Co, Ltd.
0C7D7C (base 16) Kexiang Information Technology Co, Ltd.
Room 1502, Longxi Hotel No.3788 Jiangnan Avenue.
Hangzhou Zhejiang 310053
CN

B4-82-FE (hex) ASKEY COMPUTER CORP
B482FE (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

30-7C-30 (hex) RIM
307C30 (base 16) RIM
295 Phillip Street
Waterloo Ontario N2L 3W8
CA

BC-4E-3C (hex) CORE STAFF CO., LTD.
BC4E3C (base 16) CORE STAFF CO., LTD.
Shin-osaka Oriental Bldg. 14F, 7-1-26 Nishinakajima
Yodogawa-ku Osaka 532-0011
JP

30-37-A6 (hex) Cisco Systems, Inc

3037A6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

DC-1D-9F (hex) U & B tech
DC1D9F (base 16) U & B tech
2F, Daeyoung buliding, 1423-6, Kwanyang-1Dong,
Anyang-Si
Gyeonggi-Do 431-061
KR

B0-90-74 (hex) Fulan Electronics Limited
B09074 (base 16) Fulan Electronics Limited
Flat B&C,3/F,A1 Block, Gaoxin Cyber-Tech Zone,Nanshan
Shenzhen Guangdong 518057
CN

94-F6-92 (hex) Geminico co.,Ltd.
94F692 (base 16) Geminico co.,Ltd.
#102-1112, Chunui-Technopark, 200-1,
Bucheon-city Kyunggi-do 420-857
KR

78-5C-72 (hex) Hioso Technology Co., Ltd.
785C72 (base 16) Hioso Technology Co., Ltd.
6th Floor, 12th Building, Wangtang Industrial Zone,
Shenzhen Guangdong 518055
CN

58-05-56 (hex) Elettronica GF S.r.L.
580556 (base 16) Elettronica GF S.r.L.
Via Vittori, 63
FAENZA RA 48018
IT

10-44-5A (hex) Shaanxi Hitech Electronic Co., LTD
10445A (base 16) Shaanxi Hitech Electronic Co., LTD
35 Tuanjienan Rode,
Xian Shaanxi 710075
CN

F4-76-26 (hex) Viltechmeda UAB
F47626 (base 16) Viltechmeda UAB
Kalvariju 125
Vilnius LT-08221
LT

68-EF-BD
(hex) Cisco Systems, Inc
68EFBD (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F0-2F-D8 (hex) Bi2-Vision
F02FD8 (base 16) Bi2-Vision
16-504, 21-ban, Shimomaruko 4-chome, Oota-ku
Tokyo 146-0092
JP

50-2A-8B (hex) Telekom Research and Development Sdn Bhd
502A8B (base 16) Telekom Research and Development Sdn Bhd
TMRND Innovation Centre
Cyberjaya Selangor 63000
MY

EC-43-E6 (hex) AWCER Ltd.
EC43E6 (base 16) AWCER Ltd.
100-413 Bucheon Technopark
Bucheon-city Gyeonggi-do 421-741
KR

0C-84-11 (hex) A.O. Smith Water Products
0C8411 (base 16) A.O. Smith Water Products
25589 Hwy 1
McBee SC 29101
US

98-BC-99 (hex) Edeltech Co.,Ltd.
98BC99 (base 16) Edeltech Co.,Ltd.
#302 Jamae Bldg, 1010-28, Sadang-dong, Dongjak=gu
Seoul 156-824
KR

90-47-16 (hex) RORZE CORPORATION
904716 (base 16) RORZE CORPORATION
1588-2 Michinoue,
Kannabe-cho
Fukuyama Hiroshima 720-2104
JP

88-94-F9 (hex) Gemicom Technology, Inc.
8894F9 (base 16) Gemicom Technology, Inc.
16F, Building B, No. 98, Sec 1, Hsin-Tai-Wu Rd.
Hsi-Chih city Taipei 22102

TW

50-2A-7E (hex) Smart electronic GmbH
502A7E (base 16) Smart electronic GmbH
Industrie Str. 29
St. Georgen 78112
DE

F0-26-4C (hex) Sigrist-Photometer AG
F0264C (base 16) Sigrist-Photometer AG
Hofurlistrasse 1
Ennetbürgen 6373
CH

0C-17-F1 (hex) TELECSYS
0C17F1 (base 16) TELECSYS
31 chemin du fief aux pretres
L'ORBRIE 85200
FR

78-12-B8 (hex) ORANTEK LIMITED
7812B8 (base 16) ORANTEK LIMITED
5/F, Building E, Dakan Tech Park, Dakan village, Xili Town, Nanshan District, Shenzhen, China
Shenzhen Guangdong 518000
CN

10-B7-F6 (hex) Plastoform Industries Ltd.
10B7F6 (base 16) Plastoform Industries Ltd.
Units 1506A - 1512, Mita Centre,
Kwai Chung,

HK

44-8E-81 (hex) VIG
448E81 (base 16) VIG
705 Hanshin IT Tower, 60-18, Kasan-dong, Geumcheon-gu
Seoul KSXX0022
KR

54-42-49 (hex) Sony Corporation
544249 (base 16) Sony Corporation
Gotenyama Tec 5-1-2
Tokyo Shinagawa-ku 141-0001
JP

E0-AB-FE (hex) Orb Networks, Inc.
E0ABFE (base 16) Orb Networks, Inc.
428 13th Street

Oakland CA 94612
US

08-76-18 (hex) ViE Technologies Sdn. Bhd.
087618 (base 16) ViE Technologies Sdn. Bhd.
no. 85-A, Lintang Bayan Lepas 11,
Bayan Lepas Penang 11900
MY

D0-E4-0B (hex) Wearable Inc.
D0E40B (base 16) Wearable Inc.
3825 Charles Dr.
Northbrook IL 60062
US

74-7E-1A (hex) Red Embedded Design Limited
747E1A (base 16) Red Embedded Design Limited
The Wave
Shipley West Yorkshire BD17 7Du
GB

14-A8-6B (hex) ShenZhen Telacom Science&Technology Co., Ltd
14A86B (base 16) ShenZhen Telacom Science&Technology Co., Ltd
B1701/1705
Pavilion, Hua Qiang Bei RD4002, Futian District
ShenZhen GuangDong 518028
CN

0C-C3-A7 (hex) Meritec
0CC3A7 (base 16) Meritec
P.O. Box 8003
Painesville Ohio 44077
US

A4-DA-3F (hex) Bionics Corp.
A4DA3F (base 16) Bionics Corp.
1406 Masters Tower
Seoul 121-748
KR

A8-C2-22 (hex) TM-Research Inc.
A8C222 (base 16) TM-Research Inc.
Hiyoshi Honcho 1-15-4
Yokohama Kanagawa 223-0062
JP

00-3D-41 (hex) Hatteland Computer AS
003D41 (base 16) Hatteland Computer AS

Aamsosen
Nedre Vats Rogaland 5578
NO

CC-50-76 (hex) Ocom Communications, Inc.
CC5076 (base 16) Ocom Communications, Inc.
13F-6, No. 1, Bao Sheng Rd.,
Yong Ho City 234
TW

5C-87-78 (hex) Cybertelbridge co.,ltd
5C8778 (base 16) Cybertelbridge co.,ltd
#901 Acehighend tower 2
Seoul 152-050
KR

38-BB-23 (hex) OzVision America LLC
38BB23 (base 16) OzVision America LLC
400 West
Cummings Park
Woburn MA 01801
US

00-3A-9B (hex) Cisco Systems, Inc
003A9B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

2C-34-27 (hex) ERCO & GENER
2C3427 (base 16) ERCO & GENER
ZI de SAINT LAMBERT DES LEVEES
SAUMUR 49412
FR

80-91-2A (hex) Lih Rong electronic Enterprise Co., Ltd.
80912A (base 16) Lih Rong electronic Enterprise Co., Ltd.
2F, No. 2, Lane 387, Hsin Shu Road
Hsin Chuang Taipei 242
TW

80-3B-9A (hex) ghe-ces electronic ag
803B9A (base 16) ghe-ces electronic ag
Hoemelstraße 17
Wald ZH 8636
CH

74-32-56 (hex) NT-ware Systemprg GmbH

743256 (base 16) NT-ware Systemprg GmbH
Niedersachsenstrasse 6
Bad Iburg NDS 49186
DE

4C-C4-52 (hex) Shang Hai Tyd. Electon Technology Ltd.
4CC452 (base 16) Shang Hai Tyd. Electon Technology Ltd.
Room No.5,N0.396,GuiLin Road,
Shang Hai 200233
US

7C-CB-0D (hex) Antaira Technologies,
LLC
7CCB0D (base 16) Antaira Technologies, LLC
445 Capricorn St.
Brea California 92821
US

C0-1E-9B (hex) Pixavi AS
C01E9B (base 16) Pixavi AS
Dusavikveien 39
Stavanger 4003
NO

C4-E1-7C (hex) U2S co.
C4E17C (base 16) U2S co.
104-706, SK Ventium Building, 522, Dangjeong-Dong
Gunpo-si Geonggi-do 435-776
KR

20-BF-DB (hex) DVL
20BFDB (base 16) DVL
21 Gradinilor Str
Chisinau MD2001
MD

A0-5D-E7 (hex) DIRECTV, Inc.
A05DE7 (base 16) DIRECTV, Inc.
2230 E. Imperial Hwy
El Segundo CA 90245
US

44-83-12 (hex) Star-Net
448312 (base 16) Star-Net
Egoz 64
Kiryat Byalik Israel 27000
IL

DC-E2-AC (hex) Lumens Digital Optics Inc.
DCE2AC (base 16) Lumens Digital Optics Inc.
5F, No.35, Sintai Rd., Jhubei City
Jhubei HsinChu 302
TW

98-D8-8C (hex) Nortel Networks
98D88C (base 16) Nortel Networks
CARRETERA BASE AEREA # 5850
Zapopan
Jalisco 44130
MX

78-19-2E (hex) NASCENT Technology
78192E (base 16) NASCENT Technology
2744 Yorkmont RD
Charlotte NC 28208
US

48-EB-30 (hex) ETERNA TECHNOLOGY, INC.
48EB30 (base 16) ETERNA TECHNOLOGY, INC.
3939 veselich ave
los angeles california 90039
US

4C-32-2D (hex) TELEDATA NETWORKS
4C322D (base 16) TELEDATA NETWORKS
10 Hasadnaot Street
HERZLIYA 46120
IL

AC-86-7E (hex) Create New Technology (HK) Limited Company
AC867E (base 16) Create New Technology (HK) Limited Company
Rm B 10/F JinFeng Building,1001 ShangBu South Road,FuTian District
Shen Zhen Guang Dong 518031
CN

8C-59-8B (hex) C Technologies AB
8C598B (base 16) C Technologies AB
Traktorvägen 11
Lund Skåne 226 60
SE

D4-4C-A7 (hex) Informtekhnika & Communication, LLC
D44CA7 (base 16) Informtekhnika & Communication, LLC
1, build. 2/1, Verhnaya
Moscow 107140
RU

A0-40-25 (hex) Actioncable,
Inc.
A04025 (base 16) Actioncable, Inc.
998 Westlynn Way
Cupertino CA 95014
US

4C-4B-68 (hex) Mobile Device, Inc.
4C4B68 (base 16) Mobile Device, Inc.
8F-1, No. 145, Sianjheng 9th Rd.,
Jhubei City, Hsinchu County 30251
TW

20-12-57 (hex) Most Lucky Trading Ltd
201257 (base 16) Most Lucky Trading Ltd
Room403 No.506 Zhongshan South 2nd Road,Xuhui District
Shanghai 200032
CN

E8-DA-AA (hex) VideoHome Technology Corp.
E8DAAA (base 16) VideoHome Technology Corp.
4F-1, No. 192, Da Tung Rd., Sec. 3, Hsichih,
Taipei Hsien 221
TW

64-7D-81 (hex) YOKOTA INDUSTRIAL CO,.LTD
647D81 (base 16) YOKOTA INDUSTRIAL CO,.LTD
5-55 NISHIIWATA
HIGASHI OSAKA-CITY OSAKA 578-0947
JP

7C-CF-CF (hex) Shanghai SEARI Intelligent System Co., Ltd
7CCFCF (base 16) Shanghai SEARI Intelligent System Co., Ltd
No.505 Wuning Road, Putuo District
Shanghai 200063
CN

DC-33-50
(hex) TechSAT GmbH
DC3350 (base 16) TechSAT GmbH
Gruber Str. 46c
Poing BY 85586
DE

E0-64-BB (hex) DigiView S.r.l.
E064BB (base 16) DigiView S.r.l.
Via Senigallia 18/2

Milano 20161
IT

68-AA-D2 (hex) DATECS LTD.,
68AAD2 (base 16) DATECS LTD.,
BUL. TSARIGRADSKO SHOSSE 115A
SOFIA 1784
BG

A4-DE-50 (hex) Total Walther GmbH
A4DE50 (base 16) Total Walther GmbH
Frankfurter Ring 17
Munich 80807
DE

D8-D6-7E (hex) GSK CNC EQUIPMENT CO.,LTD
D8D67E (base 16) GSK CNC EQUIPMENT CO.,LTD
No.7,1st Street,Luochong North Road,Luochongwei,No.7,1st Street,Luochong North Road,Luochongwei,No.7,1st Street,Luochong North Road,Luochongwei,
Guangzhou Guangdong 510165
CN

B4-B5-AF (hex) Minsung Electronics
B4B5AF (base 16) Minsung Electronics
Mega-valley #620
Anyang-si Kyeonggi-do 431-767
KR

04-B3-B6 (hex) Seamap (UK) Ltd
04B3B6 (base 16) Seamap (UK) Ltd
Unit 34,
The Maltings
Shepton Mallet Somerset BA4 5QE
GB

1C-F0-61 (hex) SCAPS GmbH
1CF061 (base 16) SCAPS GmbH
Bahnhofstraße 17
Deisenhofen Bavaria 82041
DE

A8-93-E6 (hex) JIANGXI JINGGANGSHAN CKING COMMUNICATION TECHNOLOGY CO.,LTD
A893E6 (base 16) JIANGXI JINGGANGSHAN CKING COMMUNICATION TECHNOLOGY CO.,LTD
5F,301building,Tairan High-tech park, Chegongmiao,Futian zone,
SHENZHEN GUANGDONG 518000
CN

C4-AA-A1 (hex) SUMMIT DEVELOPMENT, spol.s r.o.

C4AAA1 (base 16) SUMMIT DEVELOPMENT, spol.s r.o.
K Vodoteci 197
Orech Praha-zapad 252 25
CZ

30-32-D4 (hex) Hanilstm Co., Ltd.
3032D4 (base 16) Hanilstm Co., Ltd.
138-6, Sangdaewon-dong Jungwon-gu
Seongnam Kyonggi-do 462-120
KR

04-B4-66 (hex) BSP Co., Ltd.
04B466 (base 16) BSP Co., Ltd.
162-10
Gumi Gyeungsangbuk Do 730-902
KR

68-CC-9C (hex) Mine Site Technologies
68CC9C (base 16) Mine Site Technologies
113 Wicks Road
North
Ryde NSW 2113
AU

14-6E-0A (hex) Private
146E0A (base 16) Private

0C-E7-09 (hex) Fox Crypto B.V.
0CE709 (base 16) Fox Crypto B.V.
P.O. box 638
Delft ZH 2600 AP
NL

6C-0F-6A (hex) JDC Tech Co., Ltd.
6C0F6A (base 16) JDC Tech Co., Ltd.
370-12 Daemyung-ri Daegot-myun
Kimpo-si Kyunggi-do 410-853
KR

F0-BC-C8 (hex) MaxID (Pty) Ltd
F0BCC8 (base 16) MaxID (Pty) Ltd
43 Homestead Road
Johannesburg Gauteng 2128
ZA

24-82-8A (hex) Prowave Technologies Ltd.
24828A (base 16) Prowave Technologies Ltd.
2F,No.879-16,Zhongjiang Road

Shanghai 200333
CN

00-27-1B (hex) Alec Sicherheitssysteme GmbH
00271B (base 16) Alec Sicherheitssysteme GmbH
Friedrich-Hoelscher-Strasse 367
Dortmund 44328
DE

00-27-18 (hex) Suzhou NEW SEAUNION Video Technology Co.,Ltd
002718 (base 16) Suzhou NEW SEAUNION Video Technology Co.,Ltd
383 Jingmao Road, Industry Park
Suzhou Jiangsu
215021
CN

00-27-0B (hex) Adura Technologies
00270B (base 16) Adura Technologies
28 Second Street
San Francisco CA 94105
US

00-27-0D (hex) Cisco Systems, Inc
00270D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-27-07 (hex) Lift Complex DS, JSC
002707 (base 16) Lift Complex DS, JSC
mikrorayon Gorsky, 6
Novosibirsk 630073
RU

00-26-FE (hex) MKD Technology Inc.
0026FE (base 16) MKD Technology Inc.
R.B8, No.1 Lising 1st Rd.,
Hsinchu 30078
TW

00-26-E3 (hex) DTI
0026E3 (base 16) DTI
Rue de la gare, 35
NANINNE NAMUR 5100
BE

00-26-E5 (hex) AEG Power Solutions
0026E5 (base 16) AEG Power Solutions

Emil Siepmannstraße 32
Warstein NRW 59581
DE

00-26-70 (hex) Cinch Connectors
002670 (base 16) Cinch Connectors
1700 Finley Road
Lombard IL 60148
US

00-26-71 (hex) AUTOVISION Co., Ltd
002671 (base 16) AUTOVISION
Co., Ltd
Shinsegae YBS Bldg. 102
Seongdong-gu Seoul 133-847
KR

00-26-65 (hex) ProtectedLogic Corporation
002665 (base 16) ProtectedLogic Corporation
PO Box 67707
Albuquerque NM 87193
US

00-26-BC (hex) General Jack Technology Ltd.
0026BC (base 16) General Jack Technology Ltd.
The Area of Administration of Lian Bei,
Dong Guan Guang Dong 523580
CN

00-26-AE (hex) Wireless Measurement Ltd
0026AE (base 16) Wireless Measurement Ltd
The Crescent
EMSWORTH PO10 8JS
GB

00-26-B1 (hex) Navis Auto Motive Systems, Inc.
0026B1 (base 16) Navis Auto Motive Systems, Inc.
Busan, Centumjungang-ro 78, Centum Greentower 8th floor
BUSAN 612-822
KR

00-26-AA (hex) Kenmec Mechanical Engineering Co., Ltd.
0026AA (base 16) Kenmec Mechanical Engineering Co., Ltd.
3F, No. 97, Sec.2 Nan-Kang Rd.,
Taipei 11578
TW

00-26-60 (hex) Logiways

002660 (base 16) Logiways
24/26
rue Louis ARMAND
PARIS 75015
FR

00-26-D7 (hex) KM Electornic Technology Co., Ltd.
0026D7 (base 16) KM Electornic Technology Co., Ltd.
5F, NO.3 Building, NO.118 Rd. Baoan District, Shenzhen China
Shenzhen Guangdong 518101
CN

00-26-D0 (hex) Semihalf
0026D0 (base 16) Semihalf
ul. Wadowicka 8A
Krakow ... 30-415
PL

00-26-D2 (hex) Pcube Systems, Inc.
0026D2 (base 16) Pcube Systems, Inc.
1857 O'Toole Lane
San Jose CA 95131
US

00-26-CD (hex) PurpleComm, Inc.
0026CD (base 16) PurpleComm, Inc.
2620 Augustine Dr., Ste. 100
Santa Clara CA 95054
US

00-26-9A (hex) Carina System Co., Ltd.
00269A (base 16) Carina System Co., Ltd.
2-2-11 Kotonoo-cho
Kobe Hyogo 651-0094
JP

00-26-95 (hex) ZT Group Int'l Inc
002695 (base 16) ZT Group Int'l Inc
350 Meadowlands Parkway
Secaucus NJ 07094
US

00-26-93 (hex) QVidium Technologies, Inc.
002693 (base 16) QVidium
Technologies, Inc.
12989 Chaparral Ridge Rd
San Diego CA 92130
US

00-26-8E (hex) Alta Solutions, Inc.
00268E (base 16) Alta Solutions, Inc.
11305 Rancho Bernardo Road
San Diego CA 92127
US

00-26-A0 (hex) moblic
0026A0 (base 16) moblic
7F, 271-1, Seohyeon-dong, Bundang-gu
Seongnam-si Kyeonggi-do 463-824
KR

00-26-96 (hex) NOOLIX Co., Ltd
002696 (base 16) NOOLIX Co., Ltd
DAECHANG B/D 3F, 8-2 SUNAE-DONG
SUNGNAM-SI KYUNGGI-DO 463-825
KR

00-26-78 (hex) Logic Instrument SA
002678 (base 16) Logic Instrument SA
43, Avenue de l'Europe
Domont 95330
FR

00-26-77 (hex) DEIF A/S
002677 (base 16) DEIF A/S
Frisenborgvej 33
Skive 7800
DK

00-26-10 (hex) Apacewave Technologies
002610 (base 16) Apacewave Technologies
48389 Fremont Blvd, STE#100
Fremont CA 94538
US

00-26-0E (hex) Ablaze Systems, LLC
00260E (base 16) Ablaze Systems, LLC
523
West Valley Road
Wayne Pennsylvania 19087
US

00-26-0D (hex) Mercury Systems, Inc.
00260D (base 16) Mercury Systems, Inc.
26 Hampshire Dr
Hudson NH 03051

US

00-26-0A (hex) Cisco Systems, Inc
00260A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-26-03 (hex) Shenzhen Wistar Technology Co., Ltd
002603 (base 16) Shenzhen Wistar Technology Co., Ltd
Rm919, Science &Technology Service Center
Shenzhen Guangdong 518000
CN

00-26-2C (hex) IKT Advanced Technologies s.r.o.
00262C (base 16) IKT Advanced Technologies s.r.o.
Piseckeho 334/19
Praha 5 15000
CZ

00-26-2E (hex) Chengdu Jiuzhou Electronic Technology Inc
00262E (base 16) Chengdu Jiuzhou Electronic Technology Inc
A2 Building,Tianfu Software Park
Chengdu Sichuan 610041
CN

00-26-29 (hex) Juphoon System Software Inc.
002629 (base 16) Juphoon System Software Inc.
Room 910,Building
2
Ningbo Zhejiang 315041
CN

00-26-48 (hex) Emitech Corp.
002648 (base 16) Emitech Corp.
No. 156-5A, ChengGong 1st St.,
Jhubei City Hsinchu County 302
TW

00-26-45 (hex) Circontrol S.A.
002645 (base 16) Circontrol S.A.
Lepant 43
Terrassa Barcelona 08223
ES

00-26-3E (hex) Trapeze Networks
00263E (base 16) Trapeze Networks
5753 West Las Positas Blvd.

Pleasanton California 94588
US

00-25-E2 (hex) Everspring Industry Co., Ltd.
0025E2 (base 16) Everspring Industry Co., Ltd.
7F., No. 609, Sec 1, Wanshou Rd.,
Gueishan Township Taoyuan County 333
TW

00-25-E1 (hex) SHANGHAI SEEYOO ELECTRONIC & TECHNOLOGY CO., LTD
0025E1 (base 16) SHANGHAI SEEYOO ELECTRONIC & TECHNOLOGY CO., LTD
RM701,XIN'AN BUILDING,99 TIANZHOU RD,XUHUI DISTRICT,SHANGHAI
SHANGHAI 200233
CN

00-25-DA (hex) Secura Key
0025DA (base 16) Secura Key
20301 Nordhoff St.
Chatsworth CA 91311
US

00-26-3C
(hex) Bachmann Technology GmbH & Co. KG
00263C (base 16) Bachmann Technology GmbH & Co. KG
Ernsthaldenstrasse 33
Stuttgart BW 70565
DE

00-26-3D (hex) MIA Corporation
00263D (base 16) MIA Corporation
1-3-15 Yoshino-cho, Minami-ku
Yokohama Kanagawa 232-0014
JP

00-26-32 (hex) Instrumentation Technologies d.d.
002632 (base 16) Instrumentation Technologies d.d.
Velika pot 22
Solkan Nova Gorica 5250
SI

00-25-DB (hex) ATI Electronics(Shenzhen) Co., LTD
0025DB (base 16) ATI Electronics(Shenzhen) Co., LTD
2F,1st Buliding,Tangyanshan Industrial Park,
Shenzhen Guangdong 518108
CN

00-25-D5 (hex) Robonica (Pty) Ltd
0025D5 (base 16) Robonica (Pty) Ltd

41 Park Avenue North
Centurion Gauteng 0046
ZA

00-25-CC (hex) Mobile Communications Korea Incorporated
0025CC (base 16) Mobile Communications Korea Incorporated
1011-1012, Suwon High Venture Valley,
Suwon-si,
Gyeonggi-do, 441-360
KR

00-25-C8 (hex) S-Access GmbH
0025C8 (base 16) S-Access GmbH
Oberhausenstrasse 47
Wettswil a/A Zuerich 8907
CH

00-25-C0 (hex) ZillionTV Corporation
0025C0 (base 16) ZillionTV Corporation
1170 Kifer Road
Sunnyvale CA 94086
US

00-26-25 (hex) MediaSputnik
002625 (base 16) MediaSputnik
Yaroslavskoe shosse, 19,
Moscow 129337
RU

00-26-26 (hex) Geophysical Survey Systems, Inc.
002626 (base 16) Geophysical Survey Systems, Inc.
12 Industrial Way
Salem NH 03079
US

00-26-1B (hex) LAUREL BANK MACHINES CO., LTD.
00261B (base 16) LAUREL BANK MACHINES CO., LTD.
12-6
Kita-Ku Tokyo 114-0013
JP

00-26-14 (hex) KTNF
002614 (base 16) KTNF
204,Daeryungtechnotown1,327,Gasan-Dong,
Seoul 153-771
KR

00-25-F9 (hex) GMK electronic design GmbH

0025F9 (base 16) GMK electronic design GmbH
Daimlerstraße 8
Wernberg-Koeblitz Bavaria
D-92533
DE

00-25-F7 (hex) Ansaldo STS USA
0025F7 (base 16) Ansaldo STS USA
1000 Technology Drive
Pittsburgh PA 15219
US

00-25-A6 (hex) Central Network Solution Co., Ltd.
0025A6 (base 16) Central Network Solution Co., Ltd.
584-1, Pajang-Dong, JangAn-Gu
Suwon-Si, Kyunggi-Do 440-854
KR

00-25-AA (hex) Beijing Soul Technology Co.,Ltd.
0025AA (base 16) Beijing Soul Technology Co.,Ltd.
Room 606,Xinzheng Office Building
BEIJING 100089
CN

00-25-A3 (hex) Trimax Wireless, Inc.
0025A3 (base 16) Trimax Wireless, Inc.
2675 S Horseshoe Dr
Naples FL 34104
US

00-25-9C (hex) Cisco-Linksys, LLC
00259C (base 16) Cisco-Linksys, LLC
121 Theory Drive
Irvine California 92612
US

00-25-A2 (hex) Alta Definicion LINCEO S.L.
0025A2 (base 16) Alta Definicion LINCEO S.L.
Maria de Luna 11, nave 4
Zaragoza Es-50018
ES

00-25-BD (hex) Italdata Ingegneria dell'Idea S.p.A.
0025BD
(base 16) Italdata Ingegneria dell'Idea S.p.A.
viale Eroi di Cefalonia 123
Roma 00128
IT

00-25-B7 (hex) Costar electronics, inc.,
0025B7 (base 16) Costar electronics, inc.,
3fl,-1 no 13,lane 120,nei-hu road sec.1,
Taipei 114
TW

00-25-7D (hex) PointRed Telecom Private Ltd.
00257D (base 16) PointRed Telecom Private Ltd.
15F - 5., No. 1071, Zhongzheng Road,
Taoyuan City 330 330
TW

00-25-4E (hex) Vertex Wireless Co., Ltd.
00254E (base 16) Vertex Wireless Co., Ltd.
5F, Seohyeon Plaza, 254-5, Seohyeon-dong, Bundang-gu
Seongnam-si Gyeonggi-do 463-824
KR

00-25-88 (hex) Genie Industries, Inc.
002588 (base 16) Genie Industries, Inc.
18620 NE 67th Ct
Redmond WA 98052
US

00-25-80 (hex) Equipson S.A.
002580 (base 16) Equipson S.A.
Poligono Ind. L´Alteró
Silla Valencia 46460
ES

00-25-6D (hex) Broadband Forum
00256D (base 16) Broadband Forum
48377
Fremont Boulevard
Fremont CA 94538
US

00-25-6C (hex) Azimut Production Association JSC
00256C (base 16) Azimut Production Association JSC
2-B Ataeva Street
Makhachkala Dagestan 367005
RU

00-25-63 (hex) Luxtera Inc
002563 (base 16) Luxtera Inc
2320. Camino Vida Roble
Carlsbad CA 92011

US

00-25-60 (hex) Ibridge Networks & Communications Ltd.
002560 (base 16) Ibridge Networks & Communications Ltd.
28,Bedford Road East Ham
London E6 2NN
GB

00-25-93 (hex) DatNet Informatikai Kft.
002593 (base 16) DatNet Informatikai Kft.
Hétvezér u. 5.
Szigetszentmiklós Pest megye 2310
HU

00-25-8E (hex) The Weather Channel
00258E (base 16) The Weather Channel
Mail Stop 500
Atlanta GA 30339
US

00-25-0D (hex) GZT Telkom-Telmor sp. z o.o.
00250D (base 16) GZT Telkom-Telmor sp. z o.o.
Mickiewicza 5/7
Gdansk pomorskie 80-425
PL

00-25-0E (hex) gt german telematics
gmbh
00250E (base 16) gt german telematics gmbh
Rankestrasse 26
Berlin D-10789
DE

00-25-08 (hex) Maquet Cardiopulmonary AG
002508 (base 16) Maquet Cardiopulmonary AG
Hechinger Strasse 38
Hirrlingen 72145
DE

00-24-FB (hex) Private
0024FB (base 16) Private

00-24-FA (hex) Hilger u. Kern GMBH
0024FA (base 16) Hilger u. Kern GMBH
Kaefertaler Strasse 253-255
Mannheim Baden-Württemberg 68167
DE

00-24-F6 (hex) MIYOSHI ELECTRONICS CORPORATION
0024F6 (base 16) MIYOSHI ELECTRONICS CORPORATION
3-13-21 KUSHIRO
KAWANISHI-CITY HYOGO-PREF. 666-0024
JP

00-24-F0 (hex) Seanodes
0024F0 (base 16) Seanodes
Batiment Platon
Colomiers 31770
FR

00-25-31 (hex) Cloud Engines, Inc.
002531 (base 16) Cloud Engines, Inc.
857 Montgomery Street
San Francisco CA 94133
US

00-25-2D (hex) Kiryung Electronics
00252D (base 16) Kiryung Electronics
Kiryung Bldg. 686-70,
Sindaebang-dong
Seoul 156-010
KR

00-25-2B (hex) Stirling Energy Systems
00252B (base 16) Stirling Energy Systems
Sandia National Labs - NSTTF
Albuquerque NM 87185-1127
US

00-25-24 (hex) Lightcomm Technology Co., Ltd
002524 (base 16) Lightcomm Technology Co., Ltd
9/F.,Hi-Tech Venture Park Tower A,
ShenZhen GuangDong 518040
CN

00-25-18 (hex) Power PLUS Communications AG
002518 (base 16) Power PLUS Communications AG
Am Exerzierplatz 2
Mannheim Baden Wuerttemberg 68167
DE

00-25-15 (hex) SFR
002515 (base 16) SFR
42 Quai du point du jour
Boulogne billancourt . 92659
FR

00-25-22 (hex) ASRock Incorporation
002522 (base 16) ASRock Incorporation
2F., No. 37, Sec. 2, Jhongyang S. Rd., Beitou District,
Taipei 112
TW

00-25-1B (hex) Philips CareServant
00251B (base 16) Philips CareServant
High Tech Campus 27
Eindhoven Noord-Brabant 5656 AE
NL

00-25-36
(hex) Oki Electric Industry Co., Ltd.
002536 (base 16) Oki Electric Industry Co., Ltd.
1-16-8 Chuou
Warabi-shi Saitama 335-8510
JP

00-25-41 (hex) Maquet Critical Care AB
002541 (base 16) Maquet Critical Care AB
Röntgenvägen 2
Solna SE-171 95
SE

00-24-FC (hex) QuoPin Co., Ltd.
0024FC (base 16) QuoPin Co., Ltd.
#109, R&D Center for Advanced Technology 68 Yatap-dong Bundang-gu
Seongnam Kyungki-do 463-816
KR

00-25-46 (hex) Cisco Systems, Inc
002546 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-25-45 (hex) Cisco Systems, Inc
002545 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-25-42 (hex) Pittasoft
002542 (base 16) Pittasoft
#913 Daeryung Techno Town 8th 481-11ga
Geumcheon-gu Seoul 153-775

KR

00-24-C7 (hex) Mobilarm Ltd
0024C7 (base 16) Mobilarm Ltd
768 Canning Highway
Western
Australia 6153
AU

00-24-B8 (hex) free alliance sdn bhd
0024B8 (base 16) free alliance sdn bhd
B-3-2 Plaza Damas
Kuala Lumpur WP 50480
MY

00-24-D0 (hex) Shenzhen SOGOOD Industry CO.,LTD.
0024D0 (base 16) Shenzhen SOGOOD Industry CO.,LTD.
SOGOOD Science Park,Aviation Road,XiXiang Town,Bao'an District,
Shenzhen Guangzhou 518102
CN

00-24-CC (hex) Fascinations Toys and Gifts, Inc.
0024CC (base 16) Fascinations Toys and Gifts, Inc.
19224 Des Moines Way S
Seattle Washington 98148
US

00-24-CB (hex) Autonet Mobile
0024CB (base 16) Autonet Mobile
2235 Mercury Way Ste. 145
Santa Rosa CA 95407
US

00-24-D1 (hex) Thomson Inc.
0024D1 (base 16) Thomson Inc.
101 West 103rd Street
Indianapolis IN 46290
US

00-24-C9 (hex) Broadband Solutions Group
0024C9 (base 16) Broadband Solutions Group
1101 Marina Village Parkway
Alameda CA 94501
US

00-24-CA (hex) Tobii Technology
AB
0024CA (base 16) Tobii Technology AB

Karlsrovägen 2D
Danderyd 18253
SE

00-24-A9 (hex) Ag Leader Technology
0024A9 (base 16) Ag Leader Technology
2202 S Riverside Dr.
Ames IA 50010
US

00-24-A6 (hex) TELESTAR DIGITAL GmbH
0024A6 (base 16) TELESTAR DIGITAL GmbH
Vulkanhöhe / B410
Dreis-Brück 54552
DE

00-24-A3 (hex) Sonim Technologies Inc
0024A3 (base 16) Sonim Technologies Inc
1875 S.Grant Street
Sanmateo CA 94402
US

00-24-B3 (hex) Graf-Syteco GmbH & Co. KG
0024B3 (base 16) Graf-Syteco GmbH & Co. KG
Kaiserstraße 18
Tuningen Baden-Württemberg 78609
DE

00-24-AA (hex) Dycor Technologies Ltd.
0024AA (base 16) Dycor Technologies Ltd.
1851 94 Street
Edmonton Alberta T6N 1E6
CA

00-24-72 (hex) ReDriven Power Inc.
002472 (base 16) ReDriven Power Inc.
24A Bath Rd.
Iroquois Ontario K0E 1K0
CA

00-24-71 (hex) Fusion MultiSystems dba
Fusion-io
002471 (base 16) Fusion MultiSystems dba Fusion-io
6350 S. 3000 E., 6th floor
Salt lake City UT 84121
US

00-24-74 (hex) Autronica Fire And Securirty

002474 (base 16) Autronica Fire And Securirty
Haakon VII's g.4
Trondheim N-7483
NO

00-24-9B (hex) Action Star Enterprise Co., Ltd.
00249B (base 16) Action Star Enterprise Co., Ltd.
10F, No.159, Sec.2, Datong Rd.
Xizhi Dist. New Taipei City 221
TW

00-24-63 (hex) Phybridge Inc
002463 (base 16) Phybridge Inc
3495 Laird Rd
Mississauga Ontario L5L5S5
CA

00-24-97 (hex) Cisco Systems, Inc
002497 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-24-DF (hex) Digitalbox Europe GmbH
0024DF (base 16) Digitalbox Europe GmbH
Sandstraße 65
Ratingen 40878
DE

00-24-25 (hex) Shenzhenshi chuangzhicheng Technology Co.,Ltd
002425 (base 16) Shenzhenshi chuangzhicheng Technology Co.,Ltd
5th
Floor,Block2,25th Building,Industrial Zone West Keyuan Sci-tech Garden Nanshan Districh,Shenzhen
Shenzhen Guangdong 518057
CN

00-24-27 (hex) SSI COMPUTER CORP
002427 (base 16) SSI COMPUTER CORP
4F, NO4, LANE 235, BAO CHIAO ROAD
HSIN TIEN TAIPEI 231
TW

00-24-1C (hex) FuGang Electronic (DG) Co.,Ltd
00241C (base 16) FuGang Electronic (DG) Co.,Ltd
Industry Street, Dong-Keng
Dong Guan City 523448
CN

00-24-19 (hex) Private
002419 (base 16) Private

00-23-E7 (hex) Hinke A/S
0023E7 (base 16) Hinke A/S
Tingbjergvej 2
Bjaeverskov DK-4632
DK

00-23-E6 (hex) Innovation Farm, Inc.
0023E6 (base 16) Innovation Farm, Inc.
47-8, Hasunuma-cho
Itabashi-ku Tokyo 174-8580
JP

00-23-E2 (hex) SEA Signalisation
0023E2 (base 16) SEA Signalisation
20-22 Rue Pierre Mendès France
Vaulx en Velin CEDEX 69515
FR

00-24-15 (hex) Magnetic Autocontrol GmbH
002415 (base
16) Magnetic Autocontrol GmbH
Grienmatt 20
Schopfheim D-79650
DE

00-24-11 (hex) PharmaSmart LLC
002411 (base 16) PharmaSmart LLC
3495 Winton Place
Rochester NY 14623
US

00-24-0F (hex) Ishii Tool & Engineering Corporation
00240F (base 16) Ishii Tool & Engineering Corporation
2-5-60 Higashi-Omichi
Oita 870-0823
JP

00-24-3F (hex) Storwize, Inc.
00243F (base 16) Storwize, Inc.
11 Alatlef St.
Yehud 56216
IL

00-24-40 (hex) Halo Monitoring, Inc.
002440 (base 16) Halo Monitoring, Inc.

515 Sparkman Dr.
Huntsville AL 35816
US

00-24-46 (hex) MMB Research Inc.
002446 (base 16) MMB Research Inc.
35 Prince Arthur Ave.
Toronto Ontario M5R 1B2
CA

00-24-45 (hex) Adtran Inc
002445 (base 16) Adtran Inc
901 Explorer Blvd.
Huntsville AL 35806-2807
US

00-23-FA (hex) RG Nets, Inc.
0023FA (base 16) RG Nets, Inc.
316 California Ave.
Reno
NV 89501
US

00-23-F2 (hex) TVLogic
0023F2 (base 16) TVLogic
suite 914 ACE Techno Tower-9th
Geumcheon-gu SEOUL 153-782
KR

00-23-E0 (hex) INO Therapeutics LLC
0023E0 (base 16) INO Therapeutics LLC
2902 Dairy Drive
Madison WI 53718
US

00-23-D5 (hex) WAREMA Renkhoff SE
0023D5 (base 16) WAREMA Renkhoff SE
Dillberg 33
Marktheidenfeld Bavaria 97828
DE

00-24-0A (hex) US Beverage Net
00240A (base 16) US Beverage Net
1001 W. Fayette Street
Syracuse NY 13204
US

00-24-07 (hex) TELEM SAS

002407 (base 16) TELEM SAS
16, RUE DE L'ETANG
GIERES RHONE ALPES 38610
FR

00-23-C4 (hex) Lux Lumen
0023C4 (base 16) Lux Lumen
Kernenergiestraat 53A
Wilrijk Antwerp 2610
BE

00-23-C5 (hex) Radiation Safety and Control Services Inc
0023C5 (base 16) Radiation Safety and Control Services Inc
91 Portsmouth Ave
Stratham New Hampshire 03885
US

00-23-C6 (hex) SMC
Corporation
0023C6 (base 16) SMC Corporation
4-2-2, Kinunodai
Tsukuba Mirai-shi Ibaraki-ken 300-2493
JP

00-23-B9 (hex) Airbus Defence and Space Deutschland GmbH
0023B9 (base 16) Airbus Defence and Space Deutschland GmbH
Willy-Messerschmitt-Strasse 1,
Taufkirchen 82024
DE

00-23-BD (hex) Digital Ally, Inc.
0023BD (base 16) Digital Ally, Inc.
1218 Valley Ridge Drive
Grain Valley MO 64029
US

00-23-90 (hex) Algolware Corporation
002390 (base 16) Algolware Corporation
13F-5, No. 77, Sec. 1, Sintai 5th Rd.,
Taipei County Taiwan 221
TW

00-23-88 (hex) V.T. Telematica S.p.a.
002388 (base 16) V.T. Telematica S.p.a.
Via Gorky, 21
San Giuliano Milanese Milano 20098
IT

00-23-86 (hex) IMI Hydronic Engineering international SA
002386 (base 16) IMI Hydronic Engineering international SA
Route de Crassier 19
Eysins 1262
CH

00-23-83 (hex) InMage Systems Inc
002383
(base 16) InMage Systems Inc
3255-1 Scott Blvd, #104
Santa Clara CA 95054
US

00-23-81 (hex) Lengda Technology(Xiamen) Co.,Ltd.
002381 (base 16) Lengda Technology(Xiamen) Co.,Ltd.
5/F, 47 Haijing South 2nd Road,Xiamen Export Processing Zone, Haicang District,
Xiamen Fujian 361026
CN

00-23-C9 (hex) Sichuan Tianyi Information Science & Technology Stock CO.,LTD
0023C9 (base 16) Sichuan Tianyi Information Science & Technology Stock CO.,LTD
No.1,Hot Spring Highway,Dayi County
Chengdu Sichuan 611330
US

00-23-CE (hex) KITA DENSHI CORPORATION
0023CE (base 16) KITA DENSHI CORPORATION
12F TOKYO-NISHIIKEBUKURO Bilg.,
Toshima-ku, Tokyo 171-0021
JP

00-23-CF (hex) CUMMINS-ALLISON CORP.
0023CF (base 16) CUMMINS-ALLISON CORP.
891 FEEHANVILLE DRIVE
MT. PROSPECT IL 60056
US

00-23-C2 (hex) SAMSUNG Electronics. Co. LTD
0023C2 (base 16) SAMSUNG Electronics. Co. LTD
19th Fl., Korea
Life Bldg. 1338-12
Seoul 137-860
KR

00-23-BF (hex) Mainpine, Inc.
0023BF (base 16) Mainpine, Inc.
PO Box 241
Wilsonville Oregon 97070-0241

US

00-23-B2 (hex) Intelligent Mechatronic Systems Inc
0023B2 (base 16) Intelligent Mechatronic Systems Inc
161 Roger Street
Waterloo Ontario N2J 1B1
CA

00-23-B5 (hex) ORTANA LTD
0023B5 (base 16) ORTANA LTD
OSTIM KOCASINAN SANAYI SITESI
ANKARA 06370
TR

00-23-5D (hex) Cisco Systems, Inc
00235D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-23-5C (hex) Aprius, Inc.
00235C (base 16) Aprius, Inc.
440 N. Wolfe Rd
Sunnyvale CA 94085
US

00-23-52 (hex) DATASENSOR S.p.A.
002352 (base 16) DATASENSOR S.p.A.
Via Lavino, 265
Monte San Pietro (BO) 40050
IT

00-23-7B (hex) WHDI LLC
00237B (base 16) WHDI LLC
2350 Mission College Blvd.
Santa Clara CA 95054
US

00-23-24
(hex) G-PRO COMPUTER
002324 (base 16) G-PRO COMPUTER
first arrange C, YingHu industrial estate
DongGuan City GuangDong Province 523648
CN

00-23-6A (hex) SmartRG Inc
00236A (base 16) SmartRG Inc
501 SE Columbia Shores Blvd

Vancouver WA 98661
US

00-23-70 (hex) Snell
002370 (base 16) Snell
Hartman House
Reading Berks RG6 4PB
GB

00-23-A9 (hex) Beijing Detianquan Electromechanical Equipment Co., Ltd
0023A9 (base 16) Beijing Detianquan Electromechanical Equipment Co., Ltd
No. 2 Chapeng Road, Haidian District,
Beijing 100091
CN

00-23-A7 (hex) Redpine Signals, Inc.
0023A7 (base 16) Redpine Signals, Inc.
Plot 87, Sagar Society
Hyderabad AP 500034
IN

00-23-9B (hex) Elster Solutions, LLC
00239B (base 16) Elster Solutions, LLC
208 South Rogers Lane
Raleigh North Carolina 27610
US

00-23-09 (hex) Janam Technologies LLC
002309 (base 16) Janam Technologies
LLC
100 Crossways Park West
Woodbury NY 11797
US

00-23-04 (hex) Cisco Systems, Inc
002304 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-22-F9 (hex) Pollin Electronic GmbH
0022F9 (base 16) Pollin Electronic GmbH
Max-Pollin-Str. 1
Pfoerring 85104
DE

00-22-EE (hex) Algo Communication Products Ltd
0022EE (base 16) Algo Communication Products Ltd

4500 Beedie Street
Burnaby BC V5J 5L2
CA

00-22-EA (hex) Rustelcom Inc.
0022EA (base 16) Rustelcom Inc.
Garagniy proezd, 1
St.-Petersburg 192288
RU

00-22-F0 (hex) 3 Greens Aviation Limited
0022F0 (base 16) 3 Greens Aviation Limited
10 Hedingham Close
Macclesfield SK10 3LZ
GB

00-22-EC (hex) IDEALBT TECHNOLOGY CORPORATION
0022EC (base 16) IDEALBT TECHNOLOGY CORPORATION
6F., NO.8, LANE 345, YANGGUANG ST., NEIHU DISTRICT
Taipei 114
TW

00-23-31 (hex) Nintendo Co.,
Ltd.
002331 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-23-35 (hex) Linkflex Co.,Ltd
002335 (base 16) Linkflex Co.,Ltd
5F. Min Young Bldg. 175-2
Seoul 135-010
KR

00-23-2F (hex) Advanced Card Systems Ltd.
00232F (base 16) Advanced Card Systems Ltd.
Unit 2010-13, Chevalier Commercial Centre,
Kowloon Bay, SAR
HK

00-22-C5 (hex) INFORSON Co,Ltd.
0022C5 (base 16) INFORSON Co,Ltd.
Room 704,Tower B1, ChangYuanTianDi Plaza
BeiJing City 100080
CN

00-22-BF (hex) SieAmp Group of Companies

0022BF (base 16) SieAmp Group of Companies
2 Ang Mo Kio Street 64
Singapore 569084
US

00-22-BE (hex) Cisco Systems, Inc
0022BE (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-22-B9 (hex) Analogix Seminconductor, Inc
0022B9 (base 16) Analogix Seminconductor, Inc
3211 Scott Blvd., Suite 100
Santa
Clara CA 95054
US

00-23-11 (hex) Gloscom Co., Ltd.
002311 (base 16) Gloscom Co., Ltd.
#507 Changhyun Bldg.
Anyang City Kyunggo-do 431-080
KR

00-23-53 (hex) F E T Elettronica snc
002353 (base 16) F E T Elettronica snc
Via Alessandro Manzoni 14/a
Poggibonsi Siena 53036
IT

00-23-42 (hex) Coffee Equipment Company
002342 (base 16) Coffee Equipment Company
4216 6th Ave NW
Seattle WA 98107
US

00-23-37 (hex) Global Star Solutions ULC
002337 (base 16) Global Star Solutions ULC
4600 Jacombs Road
Richmond BC V6V 3B1
CA

00-22-DD (hex) Protecta Electronics Ltd
0022DD (base 16) Protecta Electronics Ltd
Kesmark str 7/A
Budapest Hungary 1158
HU

00-22-DB (hex) Translogic Corporation
0022DB (base 16) Translogic Corporation
10825 E. 47th Avenue
Denver Colorado 80239
US

00-23-25 (hex) IOLAN Holding
002325 (base 16) IOLAN Holding
Mon Plaisir
26
Etten Leur 4879AN
NL

00-23-21 (hex) Avitech International Corp
002321 (base 16) Avitech International Corp
15333 NE 90th Street
Redmond WA 98052
US

00-23-19 (hex) Sielox LLC
002319 (base 16) Sielox LLC
170 East Ninth Ave.
Runnemede NJ 08078
US

00-22-DA (hex) ANATEK, LLC
0022DA (base 16) ANATEK, LLC
3219 East Camelback Road
Phoenix AZ 85018
US

00-22-6A (hex) Honeywell
00226A (base 16) Honeywell
8840 Evergreen Blvd.
Minneapolis MN 55433-6040
US

00-22-62 (hex) BEP Marine
002262 (base 16) BEP Marine
13 Tarndale Grove Albany
Auckland 0632
NZ

00-22-63 (hex) Koos Technical Services, Inc.
002263 (base 16) Koos Technical Services, Inc.
1025 Greenwood Blvd.
Lake Mary FL 32746
US

00-22-6C (hex) LinkSprite Technologies, Inc.
00226C (base 16) LinkSprite Technologies, Inc.
1410 Cannon Mountain Dr
Longmont CO 80503
US

00-22-5C
(hex) Multimedia & Communication Technology
00225C (base 16) Multimedia & Communication Technology
Digital Empire D-801 #980-3
Suwon-City KyeongGi-Do 443-813
KR

00-22-90 (hex) Cisco Systems, Inc
002290 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-22-8A (hex) Teratronik elektronische systeme gmbh
00228A (base 16) Teratronik elektronische systeme gmbh
Karl-Ulrich-Strasse 1
Gross-Umstadt D-64823
DE

00-22-8E (hex) TV-NUMERIC
00228E (base 16) TV-NUMERIC
24-26 rue Louis Armand
Paris 75015
FR

00-22-84 (hex) DESAY A&V SCIENCE AND TECHNOLOGY CO.,LTD
002284 (base 16) DESAY A&V SCIENCE AND TECHNOLOGY CO.,LTD
DESAY 3rd Zone,Chenjiang,
Huizhou Guangdong 516229
CN

00-22-86 (hex) ASTRON
002286 (base 16) ASTRON
Oudehoogeveensedijk 4
Dwingeloo Drenthe 7991PD
NL

00-22-9B (hex) AverLogic Technologies, Inc.
00229B (base 16) AverLogic
Technologies, Inc.
7F-2, No.2, Lane 258, Rui Guang Rd., Nei-Hu Dist.,

Taipei Taiwan 114
TW

00-22-9C (hex) Verismo Networks Inc
00229C (base 16) Verismo Networks Inc
295 Bernando Avenue
Mountain View CA 94043
US

00-22-9A (hex) Lastar, Inc.
00229A (base 16) Lastar, Inc.
3555 Kettering BLVD.
Moraine Ohio 45439
US

00-22-54 (hex) Bigelow Aerospace
002254 (base 16) Bigelow Aerospace
1899 W. Brooks Ave
North Las Vegas NV 89032
US

00-22-57 (hex) 3COM EUROPE LTD
002257 (base 16) 3COM EUROPE LTD
Peoplebuilding 2
Hemel Hempstead HERTS. HP2 4NW
GB

00-22-B8 (hex) Norcott
0022B8 (base 16) Norcott
Brookfield House, Grimsditch Lane off Tarporley Road
Cheshire WA4 4EA
GB

00-22-B7 (hex) GSS Grundig SAT-Systems GmbH
0022B7 (base 16) GSS Grundig SAT-Systems GmbH
Beutherner Strasse 43
Nuernberg Bayern 90471
DE

00-22-B3 (hex) Sei S.p.A.
0022B3
(base 16) Sei S.p.A.
Via Ruffilli, 1
Curno Bergamo 24035
IT

00-22-AB (hex) Shenzhen Turbosight Technology Ltd
0022AB (base 16) Shenzhen Turbosight Technology Ltd

Unit C-8A,Shennan Garden Bldg,Hightech Park,Nanshan District
Shenzhen Guangdong 518057
CN

00-22-46 (hex) Evoc Intelligent Technology Co.,Ltd.
002246 (base 16) Evoc Intelligent Technology Co.,Ltd.
No.31 Gaoxin Centeral Avenue 4th Road,Nanshan District Shenzhen City
Shenzhen Guangdong 518057
CN

00-22-48 (hex) Microsoft Corporation
002248 (base 16) Microsoft Corporation
One Microsoft Way
Redmond Washington 98052-6399
US

00-22-82 (hex) 8086 Consultancy
002282 (base 16) 8086 Consultancy
17 Lowfield Lane
Newark Notts NG24 3HJ
GB

00-22-76 (hex) Triple EYE B.V.
002276 (base 16) Triple EYE B.V.
Vaassenseweg 71
Emst 8166 AT
NL

00-22-74 (hex) FamilyPhone AB
002274 (base 16) FamilyPhone AB
Anckargripsgatan
3
Malmö 21119
SE

00-22-30 (hex) FutureLogic Inc.
002230 (base 16) FutureLogic Inc.
425 E. Colorado St., Ste. 100
Glendale CA 91205
US

00-22-2E (hex) maintech GmbH
00222E (base 16) maintech GmbH
Seeweg 60
Höchberg Bavaria 97204
DE

00-21-BB (hex) Riken Keiki Co., Ltd.

0021BB (base 16) Riken Keiki Co., Ltd.
2-7-6 Azusawa
Itabashi-Ku Tokyo 174-8744
JP

00-21-B1 (hex) DIGITAL SOLUTIONS LTD
0021B1 (base 16) DIGITAL SOLUTIONS LTD
Tsarigradsko Shose 7km BLVD
Sofia Sofia 1784
BG

00-21-B0 (hex) Tyco Telecommunications
0021B0 (base 16) Tyco Telecommunications
1011 Pawtucket Blvd
Lowell Massachusetts 01853
US

00-22-14 (hex) RINNAI KOREA
002214 (base 16) RINNAI KOREA
560-2, Shibjong-1dong, Pupyoung-gu
Pupyoung-gu Incheon 403-847
KR

00-22-0B (hex) National Source Coding Center
00220B (base 16) National Source Coding Center
Suite 701,Power
Creative A,No.1
Beijing 100085
CN

00-22-0C (hex) Cisco Systems, Inc
00220C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-21-C6 (hex) CSJ Global, Inc.
0021C6 (base 16) CSJ Global, Inc.
9th Fl. Samwhan Bldg. Annex, 17-26 Yeouido-dong,
Seoul 150-874
KR

00-21-C3 (hex) CORNELL Communications, Inc.
0021C3 (base 16) CORNELL Communications, Inc.
7915 N. 81st Street
Milwaukee Wisconsin 53223
US

00-21-C7 (hex) Russound
0021C7 (base 16) Russound
5 Forbes Road
Newmarket NH 03857
US

00-21-C1 (hex) ABB Oy / Medium Voltage Products
0021C1 (base 16) ABB Oy / Medium Voltage Products
PO Box 699
Vaasa FI-65101
FI

00-21-C0 (hex) Mobile Appliance, Inc.
0021C0 (base 16) Mobile Appliance, Inc.
#819 Kranz Techno,
Seong nam Gyeonggi-Do 462-729
KR

00-21-EA (hex) Bystronic Laser AG
0021EA (base 16) Bystronic Laser AG
Industriestrasse
21
3362 Niederönz
CH

00-21-E1 (hex) Nortel Networks
0021E1 (base 16) Nortel Networks
2221 Lakeside Blvd
Richardson TX 75081
US

00-21-FD (hex) LACROIX TRAFFIC S.A.U
0021FD (base 16) LACROIX TRAFFIC S.A.U
Majada 4
Tres Cantos Madrid 28760
ES

00-22-00 (hex) IBM Corp
002200 (base 16) IBM Corp
2051 Mission College Blvd
Santa Clara CA 95054
US

00-22-28 (hex) Breeze Innovations Ltd.
002228 (base 16) Breeze Innovations Ltd.
Har Hotzvim, P.O. Box 45397
Jerusalem Israel 91451
IL

00-22-29 (hex) Compumedics Ltd
002229 (base 16) Compumedics Ltd
30 - 40 Flockhart Street
Abbotsford Victoria 3067
AU

00-22-16 (hex) SHIBAURA VENDING MACHINE CORPORATION
002216 (base 16) SHIBAURA VENDING MACHINE CORPORATION
Ekimae-cho13-10
Obama-shi Fukui-ken 917-0077
JP

00-21-CD (hex) LiveTV
0021CD (base 16) LiveTV
1333 Gateway Drive, Suite
1007
Melbourne Florida 32901
US

00-21-6F (hex) SymCom, Inc.
00216F (base 16) SymCom, Inc.
2880 North Plaza Drive
Rapid City SD 57702
US

00-21-66 (hex) NovAtel Inc.
002166 (base 16) NovAtel Inc.
1120 - 68 Ave NE
Calgary Alberta T2E 8S5
CA

00-21-64 (hex) Special Design Bureau for Seismic Instrumentation
002164 (base 16) Special Design Bureau for Seismic Instrumentation
129, Krainyaya Str.
Saratov Saratov region 410019
RU

00-21-60 (hex) Hidea Solutions Co. Ltd.
002160 (base 16) Hidea Solutions Co. Ltd.
4F, Do&Can house Dldg., #656-1683, Seongsu 1-ga 2-dong, Seongdong-gu
Seoul 656-1683
KR

00-21-52 (hex) General Satellite Research & Development Limited
002152 (base 16) General Satellite Research & Development Limited
Lit. E, building 2, 4 Novoladozhskaya str
Saint Petersburg 197110

RU

00-21-58 (hex) Style Flying Technology Co.
002158 (base 16) Style Flying
Technology Co.
22/F,Cyber Tower B,No.2 Zhong Guan Cun South Street,Haidian District,
Beijing 100086
CN

00-21-48 (hex) Kaco Solar Korea
002148 (base 16) Kaco Solar Korea
Chung-won-ku Sang-dea-won-dong 333-1
Songnam Kyung-kido 462-806
KR

00-21-32 (hex) Masterclock, Inc.
002132 (base 16) Masterclock, Inc.
2484 W. Clay St.
St. Charles MO 63301
US

00-21-31 (hex) Blynke Inc.
002131 (base 16) Blynke Inc.
133 Richmond St. West
Toronto Ontario M5H 2L3
CA

00-21-29 (hex) Cisco-Linksys, LLC
002129 (base 16) Cisco-Linksys, LLC
121 Theory Drive
Irvine California 92612
US

00-21-1D (hex) Dataline AB
00211D (base 16) Dataline AB
Katrinedalsgatan 53
Borås S-50451
SE

00-21-7F (hex) Intraco Technology Pte Ltd
00217F (base 16) Intraco Technology Pte Ltd
750e Chai Chee Road #05-01
Singapore 4690005
SG

00-21-7D (hex) PYXIS S.R.L.
00217D (base 16) PYXIS

S.R.L.
C/O DIP. INFORMATICA E SISTEMISTICA - UNIVERSITY OF PAVIA
PAVIA 27100
IT

00-21-41 (hex) RADLIVE
002141 (base 16) RADLIVE
4 Hanechoshet St.
Tel Aviv 69710
IL

00-21-3D (hex) Cermetek Microelectronics, Inc.
00213D (base 16) Cermetek Microelectronics, Inc.
374 Turquoise Street
Milpitas CA 95035
US

00-21-AD (hex) Nordic ID Oy
0021AD (base 16) Nordic ID Oy
Myllyojankatu 2A
SALO FIN-24100
FI

00-21-A3 (hex) Micromint
0021A3 (base 16) Micromint
111 Commerce St
Lake Mary FL 32746
US

00-21-A5 (hex) ERLPhase Power Technologies Ltd.
0021A5 (base 16) ERLPhase Power Technologies Ltd.
74 Scurfield Blvd.
Winnipeg Manitoba R3Y 1G4
CA

00-21-9D (hex) Adesys BV
00219D (base 16) Adesys BV
Molenweer 4
Wateringen Zuid Holland 2291 NR
NL

00-21-20 (hex) Sequel Technologies
002120 (base 16) Sequel Technologies
2951 Cleveland Ave N
Roseville
MN 55113
US

00-21-1A (hex) LInTech Corporation
00211A (base 16) LInTech Corporation
Krasnokazarmennaya st., 12
Moscow 111250
RU

00-21-40 (hex) EN Technologies Inc.
002140 (base 16) EN Technologies Inc.
Geumbok Bldg. 9F, Band-yi-dong 45-2, Songpa-gu
Seoul 138-828
KR

00-21-3C (hex) AliphCom
00213C (base 16) AliphCom
150 Executive Park Blvd
San Francisco CA 94134
US

00-21-95 (hex) GWD Media Limited
002195 (base 16) GWD Media Limited
10 Leeds Road
Sheffield South Yorkshire S9 3TY
GB

00-21-88 (hex) EMC Corporation
002188 (base 16) EMC Corporation
2421 Mission College Blvd
Santa Clara CA 95050
US

00-21-16 (hex) Transcon Electronic Systems, spol. s r. o.
002116 (base 16) Transcon Electronic Systems, spol. s r. o.
Kvapilova 2133
Frydek-Mistek 73802
CZ

00-21-15 (hex) PHYWE Systeme GmbH & Co. KG
002115 (base 16) PHYWE Systeme GmbH
& Co. KG
Robert-Bosch-Breite 10
Goettingen Niedersachsen 37079
DE

00-21-11 (hex) Uniphone Inc.
002111 (base 16) Uniphone Inc.
795 Main Street
Half Moon Bay CA 94019
US

00-21-14 (hex) Hylab Technology Inc.
002114 (base 16) Hylab Technology Inc.
15F-2.,No.872,Jhongjheng Rd.
Jhonghe City, Taipei 235
TW

00-1F-BF (hex) Fulhua Microelectronics Corp. Taiwan Branch
001FBF (base 16) Fulhua Microelectronics Corp. Taiwan Branch
1F, No.12, R&D Road,
Hsin-Chu, 300 886
TW

00-1F-BE (hex) Shenzhen Mopnet Industrial Co.,Ltd
001FBE (base 16) Shenzhen Mopnet Industrial Co.,Ltd
3F.No.3 Keyuan Rd.,
Shenzhen Guangdong 518057
CN

00-1F-C2 (hex) Jow Tong Technology Co Ltd
001FC2 (base 16) Jow Tong Technology Co Ltd
46 Lane 337 Chung Cheng Rd
Yung Kang City Tainan County 71066
TW

00-1F-AD (hex) Brown Innovations, Inc
001FAD (base 16) Brown Innovations, Inc
369 Congress Street
Boston
MA 02210
US

00-1F-A6 (hex) Stilo srl
001FA6 (base 16) Stilo srl
Via Besana, 4
20122 Milano
IT

00-1F-E7 (hex) Simet
001FE7 (base 16) Simet
Strada del Portone 129
Grugliasco Torino 10095
IT

00-1F-DB (hex) Network Supply Corp.,
001FDB (base 16) Network Supply Corp.,
1938 NAKADAIRA KANAE
IIDA NAGANO 395-0801

JP

00-1F-D4 (hex) 4IPNET, INC.
001FD4 (base 16) 4IPNET, INC.
38129 CAMBRIDGE COURT
FREMONT CA 94536
US

00-1F-CB (hex) NIW Solutions
001FCB (base 16) NIW Solutions
P.O. Box 62
One Tree Hill South Australia 5114
AU

00-1F-D2 (hex) COMMTECH TECHNOLOGY MACAO COMMERCIAL OFFSHORE LTD.
001FD2 (base 16) COMMTECH TECHNOLOGY MACAO COMMERCIAL OFFSHORE LTD.
31,TAI YIP STREET, 7/F KWUN TONG,
KOWLOON, HONGKONG
CN

00-1F-B5 (hex) I/O Interconnect Inc.
001FB5 (base 16) I/O Interconnect Inc.
1202 E Wakeham Ave
Santa Ana CA 92708
US

00-1F-EB
(hex) Trio Datacom Pty Ltd
001FEB (base 16) Trio Datacom Pty Ltd
41 Aster Avenue
Carrum Downs Victoria 3201
AU

00-1F-F7 (hex) Nakajima All Precision Co., Ltd.
001FF7 (base 16) Nakajima All Precision Co., Ltd.
Kami-Gomyo1480
Hanishina-Gun Nagano-Ken 389-0606
JP

00-1F-68 (hex) Martinsson Elektronik AB
001F68 (base 16) Martinsson Elektronik AB
Box 9060
Hägersten Stockholm 126 09
SE

00-1F-63 (hex) JSC Goodwin-Europa
001F63 (base 16) JSC Goodwin-Europa
20/5 Marksistskaya st.

Moscow 109147
RU

00-1F-69 (hex) Pingood Technology Co., Ltd.
001F69 (base 16) Pingood Technology Co., Ltd.
Rm1917, South Block, Cangsong Bldg., Tairan Industrial Zone, Futian District
Shenzhen Guangdong 518040
CN

00-1F-4D (hex) Segnetics LLC
001F4D (base 16) Segnetics LLC
Shkiperski protok 14
Saint-Petersburg 199106
RU

00-1F-1A (hex) Prominvest
001F1A (base
16) Prominvest
7, Bobruiskaya ulica
Saint-Petersburg North-West Federal District 195009
RU

00-1F-18 (hex) Hakusan.Mfg.Co,.Ltd
001F18 (base 16) Hakusan.Mfg.Co,.Ltd
Tomin-Kougyou-Ikebukuro BLD.5F
Tosima Ward Tokyo-Met. 171-0022
JP

00-1F-13 (hex) S.& A.S. Ltd.
001F13 (base 16) S.& A.S. Ltd.
Boutros Bldg. 1st bsmt
Beirut 2067 7808
LB

00-1F-25 (hex) MBS GmbH
001F25 (base 16) MBS GmbH
Römerstraße 15
Krefeld Nordrhein-Westfalen 47809
DE

00-1F-27 (hex) Cisco Systems, Inc
001F27 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1F-26 (hex) Cisco Systems, Inc
001F26 (base 16) Cisco Systems, Inc

80 West Tasman Drive
San Jose CA 94568
US

00-1F-97 (hex) BERTANA srl
001F97 (base 16) BERTANA srl
Viale GALILEO FERRARIS 27
BRUINO TORINO 10090
IT

00-1F-8C (hex) CCS Inc.
001F8C (base 16) CCS Inc.
Shimodachiuri-agaru
Kyoto
Kyoto 602-8011
JP

00-1F-42 (hex) Etherstack plc
001F42 (base 16) Etherstack plc
80 Abercrombie Street
Chippendale NSW 2008
AU

00-1F-81 (hex) Accel Semiconductor Corp
001F81 (base 16) Accel Semiconductor Corp
1F,Mainbldg,149 Chun Xiao Road,
Shanghai 201203
CN

00-1F-83 (hex) Teleplan Technology Services Sdn Bhd
001F83 (base 16) Teleplan Technology Services Sdn Bhd
2580, Tingkat Perusahaan 4B
Perai Penang 13600
MY

00-1F-9B (hex) POSBRO
001F9B (base 16) POSBRO
ShinyoungGtower 6F, 271-1
Seongnam-si Kyunggi-do 463-824
KR

00-1F-78 (hex) Blue Fox Porini Textile
001F78 (base 16) Blue Fox Porini Textile
1208 Pointe Centre Drive
Chattanooga TN 37421
US

00-1F-35 (hex) AIR802 LLC

001F35 (base 16) AIR802 LLC
1169 Banyon Court
Naperville IL 60540
US

00-1F-34 (hex) Lung Hwa Electronics Co., Ltd.
001F34 (base 16) Lung Hwa Electronics Co.,
Ltd.
3F, 248, Pei Sheng Rd. Sec. 3,
Taipei Hsien 222
TW

00-1F-10 (hex) TOLEDO DO BRASIL INDUSTRIA DE BALANCAS LTDA
001F10 (base 16) TOLEDO DO BRASIL INDUSTRIA DE BALANCAS LTDA
RUA MANOEL CREMONESI, 1
SAO BERNARDO DO CAMPO SP 09851-900
BR

00-1F-0F (hex) Select Engineered Systems
001F0F (base 16) Select Engineered Systems
7991 W. 26 Ave
Hialeah Florida 33016
US

00-1F-02 (hex) Pixelmetrix Corporation Pte Ltd
001F02 (base 16) Pixelmetrix Corporation Pte Ltd
31 Kaki Bukit Road 3
417818
SG

00-1E-EF (hex) Cantronic International Limited
001EEF (base 16) Cantronic International Limited
Unit 515-516, Building 15, East Wing, No 8 Science Park West Avenue, Hong Kong Science Park Phase II
Shatin New Territories 852
HK

00-1E-DE (hex) BYD COMPANY LIMITED
001EDE (base 16) BYD COMPANY LIMITED
NO.1,Baoping Road,Baolong Industrial Town,Longgang
SHEN ZHEN Guangdong 518116
CN

00-1E-DD
(hex) WASKO S.A.
001EDD (base 16) WASKO S.A.
Berbeckiego 6
Gliwice Silesia 44-100
PL

00-1E-DB (hex) Giken Trastem Co., Ltd.
001EDB (base 16) Giken Trastem Co., Ltd.
4-1 Takeda Dankawaracho Fushimiku
Kyoto 612-8414
JP

00-1E-D1 (hex) Keyprocessor B.V.
001ED1 (base 16) Keyprocessor B.V.
Paasheuvelweg 20
Amsterdam NH 1105 BJ
NL

00-1E-D0 (hex) Ingespace
001ED0 (base 16) Ingespace
6 rue de lourmede
Eurocentre 31621
FR

00-1E-CD (hex) KYLAND Technology Co. LTD
001ECD (base 16) KYLAND Technology Co. LTD
Building No.2,Shixing Avenue 30#
Shijingshan District Beijing 100044
CN

00-1E-8E (hex) Hunkeler AG
001E8E (base 16) Hunkeler AG
Bahnhofstrasse 31
Wikon CH 4806
CH

00-1E-87 (hex) Realease Limited
001E87 (base 16) Realease Limited
15/F, Morrison Commercial Building
WanChai
HK

00-1E-BF (hex) Haas Automation Inc.
001EBF
(base 16) Haas Automation Inc.
2800 Sturgis Rd
Oxnard CA 93030
US

00-1E-BC (hex) WINTECH AUTOMATION CO.,LTD.
001EBC (base 16) WINTECH AUTOMATION CO.,LTD.
#1115, TAEKWANG BLVD.
SUWON-SI KYUNGGI 443-816

KR

00-1E-B1 (hex) Cryptsoft Pty Ltd
001EB1 (base 16) Cryptsoft Pty Ltd
P.O. Box 6389
Fairfield Gardens Queensland 4103
AU

00-1E-AF (hex) Ophir Optronics Ltd
001EAF (base 16) Ophir Optronics Ltd
POB 45021
Jerusalem 91450
IL

00-1E-AD (hex) Wingtech Group Limited
001EAD (base 16) Wingtech Group Limited
6th floor, Unit G, No.668, East Beijing Road,
Shanghai 200001
CN

00-1E-FE (hex) LEVEL s.r.o.
001EFE (base 16) LEVEL s.r.o.
Plhovska 1997
Nachod 547 01
CZ

00-1E-EB (hex) Talk-A-Phone Co.
001EEB (base 16) Talk-A-Phone Co.
5013 N. Kedzie Ave.
Chicago IL 60625
US

00-1E-A1 (hex) Brunata a/s
001EA1 (base 16) Brunata a/s
Vesterlundvej
14
Herlev 2730
DK

00-1E-35 (hex) Nintendo Co., Ltd.
001E35 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-1E-2B (hex) Radio Systems Design, Inc.
001E2B (base 16) Radio Systems Design, Inc.
601 Heron Drive

Logan Twp New Jersey 08085
US

00-1E-28 (hex) Lumexis Corporation
001E28 (base 16) Lumexis Corporation
3184 Airway Ave Bldg D
Costa Mesa CA 92626
US

00-1E-24 (hex) Zhejiang Bell Technology Co.,ltd
001E24 (base 16) Zhejiang Bell Technology Co.,ltd
6 Xidoumen Rd. West Lake district
Hangzhou Zhejiang 310012
CN

00-1E-20 (hex) Intertain Inc.
001E20 (base 16) Intertain Inc.
Suite 608 LG Eclat-2, 245-4 Seohyun-dong, Bundang-gu
Sungngm-shi Kyunggi-do 463-824
KR

00-1E-6F (hex) Magna-Power Electronics, Inc.
001E6F (base 16) Magna-Power Electronics, Inc.
39 Royal Road
Flemington NJ 08822
US

00-1E-6A
(hex) Beijing Bluexon Technology Co.,Ltd
001E6A (base 16) Beijing Bluexon Technology Co.,Ltd
Jinqiuzhichun 7-301,Zhichun Rd.,
Beijing 100088
CN

00-1E-66 (hex) RESOL Elektronische Regelungen GmbH
001E66 (base 16) RESOL Elektronische Regelungen GmbH
Heiskampstraße 10
Hattingen NRW 45527
DE

00-1E-63 (hex) Vibro-Meter SA
001E63 (base 16) Vibro-Meter SA
Route de Moncor 4
Fribourg CH-1701
CH

00-1E-53 (hex) Further Tech Co., LTD
001E53 (base 16) Further Tech Co., LTD

8F,NO 421, Sungshan RD.,Taipei, Taiwn,R.O.C.
Taipei 110
TW

00-1E-4E (hex) DAKO EDV-Ingenieur- und Systemhaus GmbH
001E4E (base 16) DAKO EDV-Ingenieur- und Systemhaus GmbH
Ernst-Haeckel-Platz 5/6
Jena Thuringia 07745
DE

00-1E-49 (hex) Cisco Systems, Inc
001E49 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1E-42 (hex) Teltonika
001E42 (base 16) Teltonika
Zirmunu
27
Vilnius LT - 09105
LT

00-1E-43 (hex) AISIN CORPORATION
001E43 (base 16) AISIN CORPORATION
6-18, Harayama, Oka-cho
Okazaki Aichi 444-8564
JP

00-1E-32 (hex) Zensys
001E32 (base 16) Zensys
Emdrupvej 26
Copenhagen O DK-2100
DK

00-1E-1C (hex) SWS Australia Pty Limited
001E1C (base 16) SWS Australia Pty Limited
23 Scanlon Drive
Epping Victoria 3076
AU

00-1E-12 (hex) Ecolab
001E12 (base 16) Ecolab
655 Lone Oak Drive
Eagan MN 55121
US

00-1E-16 (hex) Keytronix

001E16 (base 16) Keytronix
Ungargasse 64-66/1/109
Vienna 1030
AT

00-1E-08 (hex) Centec Networks Inc
001E08 (base 16) Centec Networks Inc
Suite 4F-13/16, Building B, No.5 Xing Han Street
Suzhou Jiangsu 215021
CN

00-1D-FB (hex) NETCLEUS Systems Corporation
001DFB (base 16) NETCLEUS Systems Corporation
3F, Daiichi-maeda Bldg.
Yamato-shi 242-0017
JP

00-1E-7F
(hex) CBM of America
001E7F (base 16) CBM of America
1455 West Newport Center Drive
Deerfield Beach Florida 33442
US

00-1E-82 (hex) SanDisk Corporation
001E82 (base 16) SanDisk Corporation
630 Alder Drive,
Milpitas CA 95035
US

00-1D-90 (hex) EMCO Flow Systems
001D90 (base 16) EMCO Flow Systems
2150 Miller Drive
Longmont CO 80501
US

00-1D-93 (hex) Modacom
001D93 (base 16) Modacom
Jinsuk Building 1536-7
Seoul 137-073
KR

00-1D-94 (hex) Climax Technology Co., Ltd
001D94 (base 16) Climax Technology Co., Ltd
No. 258, Hsin Hu 2nd Road
Taipei City Taipei 114
TW

00-1D-8E (hex) Alereon, Inc.
001D8E (base 16) Alereon, Inc.
7600 N. Capital of Texas Hwy
Austin TX 78731
US

00-1D-BF (hex) Radiient Technologies, Inc.
001DBF (base 16) Radiient Technologies, Inc.
2084-A Walsh Ave
Santa Clara CA 95050
US

00-1D-B9 (hex) Wellspring Wireless
001DB9
(base 16) Wellspring Wireless
107 Magella Court
North Wales Pa 19454
US

00-1D-BB (hex) Dynamic System Electronics Corp.
001DBB (base 16) Dynamic System Electronics Corp.
5F,NO,9,LANE 130,SEC 1,KUANGG FU RD.SAN CHUNG CITY,
Taipei Hsien 24158
TW

00-1D-84 (hex) Gateway, Inc.
001D84 (base 16) Gateway, Inc.
610 Gateway Drive
North Sioux City South Dakota 57049
US

00-1D-85 (hex) Call Direct Cellular Solutions
001D85 (base 16) Call Direct Cellular Solutions
Suite 145, National Innovation Centre
Eveleigh NSW 1430
AU

00-1D-7B (hex) Ice Energy, Inc.
001D7B (base 16) Ice Energy, Inc.
9351 Eastman Park Drive
Windsor Colorado 80550
US

00-1D-6C (hex) ClariPhy Communications, Inc.
001D6C (base 16) ClariPhy Communications, Inc.
16 Technology Dr., Suite 165
Irvine CA 92618
US

00-1D-DB (hex) C-BEL Corporation
001DDB (base 16) C-BEL Corporation
Futabacho
35-12
Itabashi-ku Tokyo 173-0011
JP

00-1D-E6 (hex) Cisco Systems, Inc
001DE6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1D-E7 (hex) Marine Sonic Technology, Ltd.
001DE7 (base 16) Marine Sonic Technology, Ltd.
5508 George Washington Memorial Highway
White Marsh Virginia 23183
US

00-1D-A4 (hex) Hangzhou System Technology CO., LTD
001DA4 (base 16) Hangzhou System Technology CO., LTD
ROOM A1505 HuaXing times plaza,NO 478 Wensan Road
Hangzhou Zhejiang 310012
CN

00-1D-B3 (hex) HPN Supply Chain
001DB3 (base 16) HPN Supply Chain
8000 Foothills Blvd
Roseville CA 95747
US

00-1D-B1 (hex) Crescendo Networks
001DB1 (base 16) Crescendo Networks
6 Yoni Netanyahu St.
Or-Yehuda 60376
IL

00-1D-B4 (hex) KUMHO ENG CO.,LTD
001DB4 (base 16) KUMHO ENG CO.,LTD
498-13, HYUNDAI B/D 5F
DAEGU 703-835
KR

00-1D-C5 (hex) Beijing Jiaxun
Feihong Electricial Co., Ltd.
001DC5 (base 16) Beijing Jiaxun Feihong Electricial Co., Ltd.
Electrical Building,No. 31 Jiaoda East Road,

Beijing Haidian District, 100044
CN

00-1D-C6 (hex) SNR Inc.
001DC6 (base 16) SNR Inc.
VBIC T223ho, ICU, 103-6 Munji-dong, Youseong-gu
Daejeon 305-732
KR

00-1D-9F (hex) MATT R.P.Traczynscy Sp.J.
001D9F (base 16) MATT R.P.Traczynscy Sp.J.
Polnocna 44
Koscian wielkopolskie PL-64000
PL

00-1D-34 (hex) SYRIS Technology Corp
001D34 (base 16) SYRIS Technology Corp
21 F-2, NO. 12, SEC. 1, Taijunggang Rd.
Taichung 403
US

00-1D-32 (hex) Longkay Communication & Technology (Shanghai) Co. Ltd
001D32 (base 16) Longkay Communication & Technology (Shanghai) Co. Ltd
No.5 Building, Unit 2, Lane 299 Bisheng Rd,
Shanghai 201204
CN

00-1D-2A (hex) SHENZHEN BUL-TECH CO.,LTD.
001D2A (base 16) SHENZHEN BUL-TECH CO.,LTD.
4/F, COFCO Bdlg , 3rd
District,Baoan District, Shenzhen City,
shengzhen guangdong 518101
CN

00-1D-2D (hex) Pylone, Inc.
001D2D (base 16) Pylone, Inc.
4F Nakano Bldg. 4-30-8 Kita-Shinjuku
Shinjuku-ku, Tokyo 169-0074
JP

00-1D-2B (hex) Wuhan Pont Technology CO. , LTD
001D2B (base 16) Wuhan Pont Technology CO. , LTD
Building E, Guandong Science and Technology Industry Park,
Wuhan Hubei 430074
CN

00-1D-4C (hex) Alcatel-Lucent
001D4C (base 16) Alcatel-Lucent

601 Data Dr.
Plano TX 75075
US

00-1D-3E (hex) SAKA TECHNO SCIENCE CO.,LTD
001D3E (base 16) SAKA TECHNO SCIENCE CO.,LTD
Nishi 105-1
Kanazawa Ishikawa 920-0367
JP

00-1D-40 (hex) Intel – GE Care Innovations LLC
001D40 (base 16) Intel – GE Care Innovations LLC
3721 Douglas Blvd
Roseville CA 95661
US

00-1C-E9 (hex) Galaxy Technology Limited
001CE9 (base 16) Galaxy Technology Limited
9/F Win Full Commerical Building, 172-176
Wing Lok Street,
Sheung Wan,
HK

00-1C-EA (hex) Scientific-Atlanta, Inc
001CEA (base 16) Scientific-Atlanta, Inc
5030 Sugarloaf Pkwy
Lawrenceville GA 30044
US

00-1C-E7 (hex) Rocon PLC Research Centre
001CE7 (base 16) Rocon PLC Research Centre
21 Vek 56A str.
Sofia 1700
US

00-1D-02 (hex) Cybertech Telecom Development
001D02 (base 16) Cybertech Telecom Development
Hazenkoog 25
Alkmaar Noord Holland 1822 BS
NL

00-1C-FE (hex) Quartics Inc
001CFE (base 16) Quartics Inc
15241 Laguna Canyon Road
Irvine CA 92618
US

00-1C-E4 (hex) EleSy JSC

001CE4 (base 16) EleSy JSC
Altayskaya street, 161a
Tomsk oblast 634021
RU

00-1C-E2 (hex) Attero Tech, LLC.
001CE2 (base 16) Attero Tech, LLC.
1315 Directors Row - Suite 107
Fort Wayne Indiana 46808
US

00-1D-5D (hex) Control Dynamics Pty. Ltd.
001D5D (base 16) Control Dynamics Pty. Ltd.
PO Box 636
MORLEY
Western Australia 6943
AU

00-1D-59 (hex) Mitra Energy & Infrastructure
001D59 (base 16) Mitra Energy & Infrastructure
Boulevard de l'Europe 131
1301 Wavre
BE

00-1D-57 (hex) CAETEC Messtechnik
001D57 (base 16) CAETEC Messtechnik
Schlossstraße 95a
Olching Bayern 82140
DE

00-1D-51 (hex) Babcock & Wilcox Power Generation Group, Inc
001D51 (base 16) Babcock & Wilcox Power Generation Group, Inc
11864 Canon Blvd, Suite 105
Newport News VA 23606
US

00-1D-0B (hex) Power Standards Lab
001D0B (base 16) Power Standards Lab
1201 Marina Village Parkway #101
Alameda CA 94501
US

00-1D-22 (hex) Foss Analytical A/S
001D22 (base 16) Foss Analytical A/S
Slangerupgade 69
Hillerød Seeland 3400
DK

00-1D-23 (hex) SENSUS
001D23 (base 16) SENSUS
44 CASTILIAN DRIVE
GOLETA CALIFORNIA 93117
US

00-1D-1A (hex) OvisLink S.A.
001D1A (base 16) OvisLink
S.A.
C/Andres Obispo, 37. Pl. 4.
Madrid 28043
ES

00-1C-7A (hex) Perfectone Netware Company Ltd
001C7A (base 16) Perfectone Netware Company Ltd
Unit 815, Sun Fung Centre,
Kwai Chung
HK

00-1C-75 (hex) Segnet Ltd.
001C75 (base 16) Segnet Ltd.
146 New London Road
Chelmsford Essex CM2 OAW
GB

00-1C-74 (hex) Syswan Technologies Inc.
001C74 (base 16) Syswan Technologies Inc.
2050 Beavercreek Road
Oregon City Oregon 97045
US

00-1C-68 (hex) Anhui Sun Create Electronics Co., Ltd
001C68 (base 16) Anhui Sun Create Electronics Co., Ltd
NO.199 Xiangzhang Road
Hefei Anhui 230088
CN

00-1C-BC (hex) CastGrabber, LLC
001CBC (base 16) CastGrabber, LLC
6507 Wilkins Avenue Ste. 212
Pittsburgh PA 15217
US

00-1C-B7 (hex) USC DigiArk Corporation
001CB7 (base 16) USC DigiArk Corporation
6F Tennoz Central Tower 2-2-24 Higashishinagawa
Tokyo Shinagawa-ku 140-0002
JP

00-1C-B1
(hex) Cisco Systems, Inc
001CB1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1C-AF (hex) Plato Networks Inc.
001CAF (base 16) Plato Networks Inc.
2855 Kifer Road
Santa Clara CA 95051
US

00-1C-AA (hex) Bellon Pty Ltd
001CAA (base 16) Bellon Pty Ltd
Unit 12/12-18 Victoria St East
Lidcombe NSW 2000
AU

00-1C-A0 (hex) Production Resource Group, LLC
001CA0 (base 16) Production Resource Group, LLC
539 Temple Hill Road
New Windsor NY 12553
US

00-1C-98 (hex) LUCKY TECHNOLOGY (HK) COMPANY LIMITED
001C98 (base 16) LUCKY TECHNOLOGY (HK) COMPANY LIMITED
FLAT/RM 1503 15/F ISLAND BEVERLEY NO 1 GREAT GEORGE STREET CAUSEWAY BAY
999077
HK

00-1C-91 (hex) Gefen LLC
001C91 (base 16) Gefen LLC
5919 Sea Otter Place
Carlsbad CA 92010
US

00-1C-92 (hex) Tervela
001C92 (base 16) Tervela
43 Nagog Park
Acton MA 01720
US

00-1C-66
(hex) UCAMP CO.,LTD
001C66 (base 16) UCAMP CO.,LTD
#1015, Kolon Science Valley ¥±

Seoul Guro-Dong,Guro-gu, 152-848
KR

00-1C-DB (hex) CARPOINT CO.,LTD
001CDB (base 16) CARPOINT CO.,LTD
1340-6, Namgang Bld 7F, Seocho-Dong
SEOUL 137-070
KR

00-1C-D5 (hex) ZeeVee, Inc.
001CD5 (base 16) ZeeVee, Inc.
1 Monarch Drive
Littleton MA 01460
US

00-1C-D3 (hex) ZP Engineering SEL
001CD3 (base 16) ZP Engineering SEL
via Ardito Desio, 60
ROME 00131
IT

00-1C-CB (hex) Forth Corporation Public Company Limited
001CCB (base 16) Forth Corporation Public Company Limited
226/12,13,16 Paholyothin Road
Bangkok 10400
TH

00-1C-53 (hex) Synergy Lighting Controls
001C53 (base 16) Synergy Lighting Controls
One Lithonia Way
Conyers GA 30012
US

00-1C-4D (hex) Aplix IP Holdings Corporation
001C4D (base 16) Aplix IP Holdings Corporation
2-20-9 Nishiwaseda
Shinjuku-ku
Tokyo 169-0051
JP

00-1C-38 (hex) Bio-Rad Laboratories, Inc.
001C38 (base 16) Bio-Rad Laboratories, Inc.
245 Winter St.
Waltham MA 02451
US

00-1C-8A (hex) Cirrascale Corporation
001C8A (base 16) Cirrascale Corporation

9449 Carroll Park Drive
San Diego CA 92121
US

00-1C-81 (hex) NextGen Venturi LTD
001C81 (base 16) NextGen Venturi LTD
Technium 2
Swansea West Glamorgan SA18PJ
GB

00-1C-02 (hex) Pano Logic
001C02 (base 16) Pano Logic
2000 Seaport Drive, Suite 200
Redwood City CA 94063
US

00-1C-05 (hex) Nonin Medical Inc.
001C05 (base 16) Nonin Medical Inc.
13700 1st Avenue North
Plymouth MN 55441
US

00-1C-06 (hex) Siemens Numerical Control Ltd., Nanjing
001C06 (base 16) Siemens Numerical Control Ltd., Nanjing
No. 18 Siemens Road, Jiangning Development Zone
Nanjing JiangSu 211100
CN

00-1C-04 (hex) Airgain, Inc.
001C04 (base
16) Airgain, Inc.
1930 Palomar Point Way
Carlsbad CA 92008
US

00-1C-01 (hex) ABB Oy Drives
001C01 (base 16) ABB Oy Drives
Hiomotie 13
Helsinki FI-00380
FI

00-1B-FF (hex) Millennia Media inc.
001BFF (base 16) Millennia Media inc.
4200 Day Spring CT
Placerville CA 95667
US

00-1C-30 (hex) Mode Lighting (UK) Ltd.

001C30 (base 16) Mode Lighting (UK) Ltd.
The Maltings
Ware Hertfordshire SG12 9AD
GB

00-1C-2E (hex) HPN Supply Chain
001C2E (base 16) HPN Supply Chain
8000 Foothills Blvd
Roseville CA 95747
US

00-1C-2A (hex) Envisacor Technologies Inc.
001C2A (base 16) Envisacor Technologies Inc.
237 Romina Drive
Concord Ontario L4K 4V3
CA

00-1B-C6 (hex) Strato Rechenzentrum AG
001BC6 (base 16) Strato Rechenzentrum AG
Pascalstrasse 10
D-10587 Berlin
DE

00-1B-C4 (hex) Ultratec, Inc.
001BC4 (base 16) Ultratec, Inc.
450 Science Drive
Madison
WI 53711
US

00-1B-C2 (hex) Integrated Control Technology Limitied
001BC2 (base 16) Integrated Control Technology Limitied
11 Canaveral Drive
Auckland Auckland 0735
NZ

00-1B-BB (hex) RFTech Co.,Ltd
001BBB (base 16) RFTech Co.,Ltd
339-17 Jwahang-Ri,Wonsam-Myun,
Yongin-Si Kyungki-Do 449-871
KR

00-1B-D2 (hex) ULTRA-X ASIA PACIFIC Inc.
001BD2 (base 16) ULTRA-X ASIA PACIFIC Inc.
5-1-15 Sotokanda
Tokyo Chiyoda-ku 101-0021
JP

00-1B-F2 (hex) KWORLD COMPUTER CO., LTD
001BF2 (base 16) KWORLD COMPUTER CO., LTD
No. 113, Jian 2nd Rd.,
Jhonghe Taipei county 235
TW

00-1B-F0 (hex) Value Platforms Limited
001BF0 (base 16) Value Platforms Limited
Rm 712-713, Building 9, 5, Science Park West Ave.,
Shatin,
HK

00-1B-EA (hex) Nintendo Co., Ltd.
001BEA (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-1B-E5
(hex) 802automation Limited
001BE5 (base 16) 802automation Limited
18 First Avenue
Worthing West Sussex BN14 9NJ
GB

00-1B-E4 (hex) TOWNET SRL
001BE4 (base 16) TOWNET SRL
VIA DEI FINALE, 20
61043 CAGLI (PU)
IT

00-1B-AA (hex) XenICs nv
001BAA (base 16) XenICs nv
Ambachtenlaan 44
Leuven Vlaams-Brabant B-3001
BE

00-1C-1B (hex) Hyperstone GmbH
001C1B (base 16) Hyperstone GmbH
Line-Eid-Straße 3
Konstanz Baden-Württemberg 78467
DE

00-1C-10 (hex) Cisco-Linksys, LLC
001C10 (base 16) Cisco-Linksys, LLC
121 Theory Drive
Irvine California 92612
US

00-1B-8D (hex) Electronic Computer Systems, Inc.
001B8D (base 16) Electronic Computer Systems, Inc.
418 Donegal Drive
Towson MD 21286
US

00-1B-86 (hex) Bosch Access Systems GmbH
001B86 (base 16) Bosch Access Systems GmbH
Charlottenburger Allee 50
AACHEN D-52068
DE

00-1B-5D (hex) Vololink
Pty Ltd
001B5D (base 16) Vololink Pty Ltd
Level 2, 541 Blackburn Road
Mount Waverley Victoria 3149
AU

00-1B-5A (hex) Apollo Imaging Technologies, Inc.
001B5A (base 16) Apollo Imaging Technologies, Inc.
18545 Rangeland Rd
Ramona CA 92065
US

00-1B-56 (hex) Tehuti Networks Ltd.
001B56 (base 16) Tehuti Networks Ltd.
1, Shenkar St.
Hertzliya 46105
IL

00-1B-7C (hex) A & R Cambridge
001B7C (base 16) A & R Cambridge
Pembroke Avenue
Cambridge CAMBS CB25 9QR
GB

00-1B-A1 (hex) Åmic AB
001BA1 (base 16) Åmic AB
Uppsala science park
Uppsala 75183
SE

00-1B-96 (hex) General Sensing
001B96 (base 16) General Sensing
Unit 716, Cyberport 1
Pok Fu Lam

US

00-1B-4C (hex) Signtech
001B4C (base 16) Signtech
609 Seonil Technopia 609
Sungnamsi Kyunggido 462-120
KR

00-1A-EA (hex) Radio Terminal Systems Pty Ltd
001AEA (base 16) Radio Terminal Systems
Pty Ltd
1st Floor
Laverton North Victoria 3026
AU

00-1A-DD (hex) PePWave Ltd
001ADD (base 16) PePWave Ltd
17/F., Park Building,
Cheung Sha Wan Kowloon
HK

00-1A-D4 (hex) iPOX Technology Co., Ltd.
001AD4 (base 16) iPOX Technology Co., Ltd.
15F-1, No.186, Jian-Yi Rd., Chung-Ho City,
Taipei 235
TW

00-1A-D6 (hex) JIAGNSU AETNA ELECTRIC CO.,LTD
001AD6 (base 16) JIAGNSU AETNA ELECTRIC CO.,LTD
NO.571 QIANHU ROAD,QIANQIAO INDUSTRY PARK,WUXI,JIANGSU,CHINA
WUXI JIANGSU 214151
CN

00-1A-D5 (hex) KMC CHAIN INDUSTRIAL CO., LTD.
001AD5 (base 16) KMC CHAIN INDUSTRIAL CO., LTD.
7F-8, No. 81, Sui-Lih Rd., Hsinchu
Hsinchu 300
TW

00-1A-D0 (hex) Albis Technologies AG
001AD0 (base 16) Albis Technologies AG
Albisriederstrasse 199
CH 8047 Zuerich
CH

00-1B-1E (hex) HART Communication Foundation
001B1E (base 16) HART Communication Foundation
STE 1-350

Austin
TX 78759
US

00-1B-14 (hex) Carex Lighting Equipment Factory
001B14 (base 16) Carex Lighting Equipment Factory
50 Chang Tang Rd., Yan Tian District,
Guangdong province
CN

00-1B-15 (hex) Voxtel, Inc.
001B15 (base 16) Voxtel, Inc.
12725 SW Millikan Way
Beaverton OR 97005
US

00-1A-C3 (hex) Scientific-Atlanta, Inc
001AC3 (base 16) Scientific-Atlanta, Inc
5030 Sugarloaf Pkwy
Lawrenceville GA 30044
US

00-1A-BF (hex) TRUMPF Laser Marking Systems AG
001ABF (base 16) TRUMPF Laser Marking Systems AG
Ausserfeld
Gruesch GR 7214
CH

00-1A-B8 (hex) Anseri Corporation
001AB8 (base 16) Anseri Corporation
35E Industrial Way
Rochester NH 03867
US

00-1A-BC (hex) U4EA Technologies Ltd
001ABC (base 16) U4EA Technologies Ltd
City Point
Bristol BS1 6PL
GB

00-1A-D3 (hex) Vamp Ltd.
001AD3 (base 16) Vamp Ltd.
PO Box 810
Vaasa 65101
FI

00-1A-D8

(hex) AlsterAero GmbH
001AD8 (base 16) AlsterAero GmbH
Heidenkampsweg 45
Hamburg 20097
DE

00-1A-DA (hex) Biz-2-Me Inc.
001ADA (base 16) Biz-2-Me Inc.
1301 West Eau Gallie Blvd
Melbourne FL 32935
US

00-1A-CB (hex) Autocom Products Ltd
001ACB (base 16) Autocom Products Ltd
Unit 4 Tachbrook Link, Tachbrook Park Drive
Warwick Warwickshire CV34 6RH
GB

00-1A-CF (hex) C.T. ELETTRONICA
001ACF (base 16) C.T. ELETTRONICA
Via Caduti di Nassiriya 5 B
Barberino Val D'Elsa (FI) 50021
IT

00-1B-03 (hex) Action Technology (SZ) Co., Ltd
001B03 (base 16) Action Technology (SZ) Co., Ltd
Action Technology Building Baoyuan Road, Xixiang, Bao'an District
Shenzhen Guangdong 518102
CN

00-1A-FB (hex) Joby Inc.
001AFB (base 16) Joby Inc.
1535 Mission St.
San Francisco CA 94103
US

00-1A-FD (hex) EVOLIS
001AFD (base 16) EVOLIS
29 avenue de la fontaine
Beaucouze
49070
FR

00-1A-A3 (hex) DELORME
001AA3 (base 16) DELORME
2 DELORME DRIVE
YARMOUTH MAINE 04096
US

00-1A-9B (hex) ADEC & Parter AG
001A9B (base 16) ADEC & Parter AG
Staldenbachstrasse 30
Pfaeffikon ZH 8808
CH

00-1A-9D (hex) Skipper Wireless, Inc.
001A9D (base 16) Skipper Wireless, Inc.
Shinjuku-Sumitomo Bldg. 20F
Shinjuku Tokyo 163-0220
JP

00-1A-8E (hex) 3Way Networks Ltd
001A8E (base 16) 3Way Networks Ltd
7200 Cambridge Research Park
Cambridge Cambridgeshire CB5 9TL
GB

00-1A-6F (hex) MI.TEL s.r.l.
001A6F (base 16) MI.TEL s.r.l.
VIA GUIDO ROSSA, 22
CORNATE D'ADDA MILANO 20040
IT

00-1A-71 (hex) Diostech Co., Ltd.
001A71 (base 16) Diostech Co., Ltd.
151-21, Buk-ri, Namsa-myeon,
Yongin-city Gyeonggi-do 449 884
KR

00-1A-69 (hex) Wuhan Yangtze Optical Technology CO.,Ltd.
001A69 (base 16) Wuhan Yangtze Optical Technology CO.,Ltd.
4#,Guanshan
2 Road
Wuhan Hubei 430073
CN

00-1A-67 (hex) Infinite QL Sdn Bhd
001A67 (base 16) Infinite QL Sdn Bhd
G.02, Block A, Dataran Hamodal
Petaling Jaya Selangor Darul Ehsan 46300
MY

00-1A-64 (hex) IBM Corp
001A64 (base 16) IBM Corp
3039 E Cornwallis Road
Research Triangle Park NC 27709-2195

US

00-1A-1F (hex) Coastal Environmental Systems
001A1F (base 16) Coastal Environmental Systems
820 First Avenue South
Seattle wa 98134
US

00-1A-23 (hex) Ice Qube, Inc
001A23 (base 16) Ice Qube, Inc
141 Wilson Ave
Greensburg Pa 15601
US

00-1A-1D (hex) PChome Online Inc.
001A1D (base 16) PChome Online Inc.
11F, 105, Sec. 2, Tun-Hwa S. Rd.
Taipei 106
TW

00-1A-17 (hex) Teak Technologies, Inc.
001A17 (base 16) Teak Technologies, Inc.
2901 Tasman Dr., Ste. #210
Santa Clara CA 95054
US

00-1A-44 (hex) JWTrading Co., Ltd
001A44 (base 16) JWTrading Co., Ltd
1590
Kwanyang-dong, Dongan-ku
Ahnyang Kyungki - do 431-060
KR

00-1A-33 (hex) ASI Communications, Inc.
001A33 (base 16) ASI Communications, Inc.
1042 E Guadalupe Rd
Tempe AZ 85283
US

00-1A-1C (hex) GT&T Engineering Pte Ltd
001A1C (base 16) GT&T Engineering Pte Ltd
2 Ang Mo Kio St.64, Econ Building, #04-00
Singapore 569084
SG

00-1A-49 (hex) Micro Vision Co.,LTD
001A49 (base 16) Micro Vision Co.,LTD
1-9-15

Niigata-city Niigata-ken 950-0986
JP

00-1A-3D (hex) Ajin Vision Co.,Ltd
001A3D (base 16) Ajin Vision Co.,Ltd
1404, Mario-Tower, 222-12
Seoul 152-050
KR

00-1A-41 (hex) INOCOVA Co.,Ltd
001A41 (base 16) INOCOVA Co.,Ltd
5F SEOUL BD.736-17
Yeoksam-Dong, Kangnam-Ku SEOUL 135-924
KR

00-1A-55 (hex) ACA-Digital Corporation
001A55 (base 16) ACA-Digital Corporation
17 F, No. 866-7, Chung Cheng Rd.,
Chung Ho City Taipei County 23586
TW

00-1A-85
(hex) NV Michel Van de Wiele
001A85 (base 16) NV Michel Van de Wiele
M. Vandewielestraat 7
Marke West-Vlaanderen 8510
BE

00-1A-51 (hex) Alfred Mann Foundation
001A51 (base 16) Alfred Mann Foundation
P.O. Box 905
Santa Clarita CA 91380-9005
US

00-19-B2 (hex) XYnetsoft Co.,Ltd
0019B2 (base 16) XYnetsoft Co.,Ltd
NO.158Zhenyu Street High Industries Development area
ChangChun JiLin 130000
CN

00-19-A4 (hex) Austar Technology (hang zhou) Co.,Ltd
0019A4 (base 16) Austar Technology (hang zhou) Co.,Ltd
7-402,West Lake Software Part
Hang Zhou Zhe Jiang 310012
CN

00-19-AA (hex) Cisco Systems, Inc
0019AA (base 16) Cisco Systems, Inc

80 West Tasman Drive
San Jose CA 94568
US

00-19-B1 (hex) Arrow7 Corporation
0019B1 (base 16) Arrow7 Corporation
Kamijima 3-27-7
Hamamatsu Shizuoka 433-8122
JP

00-19-96 (hex) TurboChef Technologies Inc.
001996 (base 16) TurboChef
Technologies Inc.
4240 International Parkway
Carrollton Texas 75007
US

00-19-97 (hex) Soft Device Sdn Bhd
001997 (base 16) Soft Device Sdn Bhd
67-2 Jalan 2/27F
Kuala Lumpur WP 53300
MY

00-19-98 (hex) SATO CORPORATION
001998 (base 16) SATO CORPORATION
1-207,ONARI-CHO,
SAITAMA-SHI SAITAMA 330-0852
JP

00-19-9C (hex) CTRING
00199C (base 16) CTRING
#514, World Meridian Venture Center II
Keumcheon-gu Seoul 153-803
KR

00-19-E6 (hex) TOYO MEDIC CO.,LTD.
0019E6 (base 16) TOYO MEDIC CO.,LTD.
1-17-22 Kitahorie, Nishi-ku
Osaka 550-0014
JP

00-19-E8 (hex) Cisco Systems, Inc
0019E8 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-19-DF (hex) Thomson Inc.

0019DF (base 16) Thomson Inc.
101 West 103rd Street
Indianapolis IN 46290-1102
US

00-19-DD (hex) FEI-Zyfer, Inc.
0019DD (base 16) FEI-Zyfer, Inc.
1515 S. Manchester
Anaheim
CA 92802
US

00-1A-0A (hex) Adaptive Micro-Ware Inc.
001A0A (base 16) Adaptive Micro-Ware Inc.
6917 Innovation Blvd
Fort Wayne IN 46818
US

00-1A-05 (hex) OPTIBASE LTD
001A05 (base 16) OPTIBASE LTD
7 Shankar St.
Herzliya ISRAEL 46120
IL

00-19-B3 (hex) Stanford Research Systems
0019B3 (base 16) Stanford Research Systems
1290-D Reamwood Ave
Sunnyvale CA 94089
US

00-19-D4 (hex) ICX Technologies
0019D4 (base 16) ICX Technologies
3440 Francis-Hughes
Laval Quebec H7L 5A9
CA

00-19-CF (hex) SALICRU, S.A.
0019CF (base 16) SALICRU, S.A.
Av. Serra , 100
Sta.Ma.Palautordera Barcelona 08460
ES

00-19-FC (hex) PT. Ufoakses Sukses Luarbiasa
0019FC (base 16) PT. Ufoakses Sukses Luarbiasa
Jl. Sultan Hasanudin No. 41
Jakarta Selatan DKI Jakarta 12160
ID

00-19-8B (hex) Novera Optics Korea, Inc.
00198B (base 16) Novera Optics Korea, Inc.
463-1
Jeon Min Dong Yuseong Gu
Deajeon 305-811
KR

00-19-46 (hex) Cianet Industria e Comercio S/A
001946 (base 16) Cianet Industria e Comercio S/A
rod SC401, km01 Tecnopolis/Alfama 4o. Andar
Florianopolis Santa Catarina 88030-902
BR

00-19-49 (hex) TENTEL COMTECH CO., LTD.
001949 (base 16) TENTEL COMTECH CO., LTD.
3/F., NO. 42, LANE 80, SEC. 3, NAN-KANG RD.,
TAIPEI 115
TW

00-19-44 (hex) Fossil Partners, L.P.
001944 (base 16) Fossil Partners, L.P.
2280 N. Greenville Ave.
Richardson TX 75082
US

00-19-08 (hex) Duaxes Corporation
001908 (base 16) Duaxes Corporation
2-5, Kasumigaseki 3-chome, Chiyoda-ku.
Tokyo Foreign 100-6014
JP

00-19-0C (hex) Encore Electronics, Inc.
00190C (base 16) Encore Electronics, Inc.
16483 Old Valley Blvd.
La Puente CA 91744
US

00-19-76 (hex) Xipher Technologies, LLC
001976 (base 16) Xipher Technologies, LLC
156 River Road
Willington
CT 06279
US

00-19-6C (hex) ETROVISION TECHNOLOGY
00196C (base 16) ETROVISION TECHNOLOGY
2F, 19-5 San Chung Rd.,
TAIPEI 115

TW

00-19-67 (hex) TELDAT Sp.J.
001967 (base 16) TELDAT Sp.J.
Kijowska 44
Bydgoszcz woj. kujawsko-pomorskie 85-703
PL

00-19-42 (hex) ON SOFTWARE INTERNATIONAL LIMITED
001942 (base 16) ON SOFTWARE INTERNATIONAL LIMITED
9F, NO. 17, SEC. 1, CHENG-TE RD.
TAIPEI 103
TW

00-19-3F (hex) RDI technology(Shenzhen) Co.,LTD
00193F (base 16) RDI technology(Shenzhen) Co.,LTD
Building C1&C2, Xin Tang Industrial Zone,East BaiShiXia Village, Fuyong Town, Baoan District
SHENZHEN GUANGDONG province 518103
CN

00-19-41 (hex) Pitney Bowes, Inc
001941 (base 16) Pitney Bowes, Inc
35 Waterview Drive
Shelton CT 06484
US

00-19-2D (hex) Nokia Corporation
00192D (base 16) Nokia Corporation
Rensingstraße 15
Bochum NRW 44807
DE

00-19-30
(hex) Cisco Systems, Inc
001930 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-19-27 (hex) ImCoSys Ltd
001927 (base 16) ImCoSys Ltd
Bundesstrasse 5
Zug ZG 6300
CH

00-19-71 (hex) Guangzhou Unicomp Technology Co.,Ltd
001971 (base 16) Guangzhou Unicomp Technology Co.,Ltd
7/F,North Tower,Jinshan Building.No.248

Guangzhou Guangdong 510630
CN

00-19-64 (hex) Doorking Inc.
001964 (base 16) Doorking Inc.
120 Glasgow St.
Inglewood CA. 90301
US

00-19-61 (hex) Blaupunkt Embedded Systems GmbH
001961 (base 16) Blaupunkt Embedded Systems GmbH
Bahnhofsstrasse 16
Schlitz 36110
DE

00-19-52 (hex) ACOGITO Co., Ltd
001952 (base 16) ACOGITO Co., Ltd
#501 Shinyoung Palace Tower, 246-2, Seohyun
Sungnam Kyunggi 463-824
KR

00-19-19 (hex) ASTEL Inc.
001919 (base 16) ASTEL Inc.
59-7 Jang-dong Yusung-Gu
Daejeon Chungnam 305-343
KR

00-18-F7
(hex) Kameleon Technologies
0018F7 (base 16) Kameleon Technologies
217, rue St Honoré
Paris 75001
FR

00-18-B4 (hex) Dawon Media Inc.
0018B4 (base 16) Dawon Media Inc.
Rm503. woolim e-biz center 170-5, Guro3dong Gurogu,
Seoul 152-769
KR

00-18-B6 (hex) S3C, Inc.
0018B6 (base 16) S3C, Inc.
1010 Stewart Dr.
Sunnyvale California 94085
US

00-18-B1 (hex) IBM Corp
0018B1 (base 16) IBM Corp

2051 Mission College Blvd
Santa Clara CA 95054
US

00-18-9D (hex) Navcast Inc.
00189D (base 16) Navcast Inc.
Suite 612, 6711 Mississauga Road
Mississauga ON m2r 1a3
CA

00-18-85 (hex) Motorola Solutions Inc.
001885 (base 16) Motorola Solutions Inc.
500 W Monroe Street, Ste 4400
Chicago IL 60661-3781
US

00-18-88 (hex) GOTIVE a.s.
001888 (base 16) GOTIVE a.s.
Zámocká 34
Bratislava 81101
SK

00-18-8A (hex) Infinova LLC
00188A (base
16) Infinova LLC
51 Stouts Lane, Unit 1 & 2
Monmouth Junction New Jersey 08852
US

00-18-FD (hex) Optimal Technologies International Inc.
0018FD (base 16) Optimal Technologies International Inc.
12 Spanish Main Drive
Freeport GBI
BS

00-18-F0 (hex) JOYTOTO Co., Ltd.
0018F0 (base 16) JOYTOTO Co., Ltd.
3F Sungwoo Bldg. 717-3, Sooseo-Dong
Seoul 135-220
KR

00-18-E9 (hex) Numata Corporation
0018E9 (base 16) Numata Corporation
8-2-39 nanko-higashi
Osaka-shi Osaka-fu 559-0031
JP

00-18-EF (hex) Escape Communications, Inc.

0018EF (base 16) Escape Communications, Inc.
2615 Pacific Coast Hwy
Hermosa Beach CA 90254
US

00-18-A3 (hex) ZIPPY TECHNOLOGY CORP.
0018A3 (base 16) ZIPPY TECHNOLOGY CORP.
10F, No. 50, Mincyuan Rd., Sindian City
Taipei 231
TW

00-18-93 (hex) SHENZHEN PHOTON BROADBAND TECHNOLOGY CO.,LTD
001893 (base 16) SHENZHEN PHOTON BROADBAND TECHNOLOGY CO.,LTD
2/F Hivac BLD,2th Langshan Rd,North Hi-Tech Industrial
Shenzhen Guangdong 518057
CN

00-18-A0 (hex) Cierma Ascenseurs
0018A0 (base 16) Cierma Ascenseurs
17 avenue guiglionda de saint agathe
Nice PACA 06300
FR

00-18-86 (hex) EL-TECH, INC.
001886 (base 16) EL-TECH, INC.
A-711, WOOLIM LION'S VALLEY, 371-28
SEOUL 150-834
KR

00-18-87 (hex) Metasystem SpA
001887 (base 16) Metasystem SpA
Via Oberdan 16
Reggio Emilia RE 42100
IT

00-18-7B (hex) 4NSYS Co. Ltd.
00187B (base 16) 4NSYS Co. Ltd.
3F, Hana Bldg
Guro-Gu Seoul 152-100
KR

00-18-7E (hex) RGB Spectrum
00187E (base 16) RGB Spectrum
950 Marina Village Pkwy
Alameda CA 94501
US

00-18-E6 (hex) Computer Hardware Design SIA
0018E6 (base 16) Computer Hardware Design SIA
Dzelzavas 120i
Riga LV-1021
LV

00-18-DB (hex) EPL Technology Ltd
0018DB (base 16) EPL Technology Ltd
LongDong,Longgang
District
ShenZhen GuangDong 518116
CN

00-18-C8 (hex) ISONAS Inc.
0018C8 (base 16) ISONAS Inc.
6325 Gunpark Drive
Boulder CO 80301
US

00-18-BE (hex) ANSA Corporation
0018BE (base 16) ANSA Corporation
17F, No. 738, Chung Cheng Road
Chung Ho City Taipei County 235
TW

00-18-BA (hex) Cisco Systems, Inc
0018BA (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-18-D6 (hex) Swirlnet A/S
0018D6 (base 16) Swirlnet A/S
Diplomvej 381
Lyngby DK-2800
DK

00-18-CD (hex) Erae Electronics Industry Co., Ltd
0018CD (base 16) Erae Electronics Industry Co., Ltd
#371-51, Gasan-dong
Geumchen-gu Seoul 153-803
KR

00-18-79 (hex) dSys
001879 (base 16) dSys
Soeflinger Str. 100
Ulm BW 89077
DE

00-17-EF (hex) IBM Corp
0017EF (base 16) IBM Corp
2051 Mission College Blvd
Santa Clara CA 95054
US

00-17-F5 (hex) LIG
NEOPTEK
0017F5 (base 16) LIG NEOPTEK
926 Gosaek-dong
Suwon-si Gyeonggi-do 441-813
KR

00-17-FE (hex) TALOS SYSTEM INC.
0017FE (base 16) TALOS SYSTEM INC.
6191 CORNERSTONE CT. STE #109
SAN DIEGO CA 92121
US

00-17-F8 (hex) Motech Industries Inc.
0017F8 (base 16) Motech Industries Inc.
6F, No. 248, Sec. 3, Pei-Shen Rd.,
Taipei Hsien 222
TW

00-18-63 (hex) Veritech Electronics Limited
001863 (base 16) Veritech Electronics Limited
8F, 67, Sec. 1, Zhongshan Road, Xinzhuang,
Taipei 242
TW

00-18-5A (hex) uControl, Inc.
00185A (base 16) uControl, Inc.
5914 W. Courtyard Drive
Austin TX 78730
US

00-18-52 (hex) StorLink Semiconductors, Inc.
001852 (base 16) StorLink Semiconductors, Inc.
1804 N. Shoreline Boulevard
Mountain View CA 94043
US

00-18-1E (hex) GDX Technologies Ltd.
00181E (base 16) GDX Technologies Ltd.
61-63 Back Sneddon Street
Paisley

Renfrewshire PA3 2DD
GB

00-18-07 (hex) Fanstel Corp.
001807 (base 16) Fanstel Corp.
7466 E. Monte Cristo Ave.
Scottsdale Arizona 85260
US

00-18-50 (hex) Secfone Kft
001850 (base 16) Secfone Kft
51 Bercsenyi str
Jaszbereny 5100
HU

00-18-58 (hex) TagMaster AB
001858 (base 16) TagMaster AB
Kronborgsgréind 1
Kista Stockholm S-16487
SE

00-18-49 (hex) nVent, Schroff GmbH
001849 (base 16) nVent, Schroff GmbH
Langenalber Strasse 96-100
Straubenhardt 75334
DE

00-18-46 (hex) Crypto S.A.
001846 (base 16) Crypto S.A.
V. Ipirou 45
Marousi Athens 15125
GR

00-18-45 (hex) Pulsar-Telecom LLC.
001845 (base 16) Pulsar-Telecom LLC.
Zaharova, 18a
Penza 440044
RU

00-18-3D (hex) Vertex Link Corporation
00183D (base 16) Vertex Link Corporation
Meitetsu Fudosan Takebashi Bldg 6F
Chiyoda-ku Tokyo 101-0054
JP

00-18-08 (hex) SightLogix, Inc.
001808

(base 16) SightLogix, Inc.
745 Alexander Road
Princeton NJ 08540
US

00-18-03 (hex) ArcSoft Shanghai Co. LTD
001803 (base 16) ArcSoft Shanghai Co. LTD
20th Floor, Suite (EAST) 2008, China Merchants Plaza, 333
Shanghai 200041
CN

00-18-24 (hex) Kimaldi Electronics, S.L.
001824 (base 16) Kimaldi Electronics, S.L.
Ctra. de Rubí, 292 B
Terrassa Barcelona 08228
ES

00-17-DB (hex) CANKO TECHNOLOGIES INC.
0017DB (base 16) CANKO TECHNOLOGIES INC.
5 FL. DONG SUNG BLDG. 17-8
SEOUL 150-874
KR

00-17-D6 (hex) Bluechips Microhouse Co.,Ltd.
0017D6 (base 16) Bluechips Microhouse Co.,Ltd.
212/2 M.10 Tambol Umong
Lamphun 51150
TH

00-18-25 (hex) Private
001825 (base 16) Private

00-17-CE (hex) Screen Service Spa
0017CE (base 16) Screen Service Spa
Via G.Di Vittorio 17
Brescia 25125
IT

00-17-CD (hex) CEC Wireless R&D Ltd.
0017CD (base 16) CEC Wireless
R&D Ltd.
West M5 Building,No.1 East Road
Beijing 100016
CN

00-17-D0 (hex) Opticom Communications, LLC
0017D0 (base 16) Opticom Communications, LLC
1050 Connecticut Avenue, NW

Washington DC 20036
US

00-17-C6 (hex) Cross Match Technologies Inc
0017C6 (base 16) Cross Match Technologies Inc
400, boul. Jean-Lesage
Québec G1K 8W1
CA

00-17-8F (hex) NINGBO YIDONG ELECTRONIC CO.,LTD.
00178F (base 16) NINGBO YIDONG ELECTRONIC CO.,LTD.
No.65 Siming East Rd
Yuyao City, Zhejiang Province Zhejiang Province China P.C 315400
CN

00-17-8A (hex) DARTS TECHNOLOGIES CORP.
00178A (base 16) DARTS TECHNOLOGIES CORP.
2F,No.119,Chien Kang Rd.,
Chung-Ho Taipei Hsien 235
TW

00-17-AB (hex) Nintendo Co., Ltd.
0017AB (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-17-89 (hex) Zenitron Corporation
001789 (base 16) Zenitron Corporation
No.
8, Lane 250, Sinhu 2nd Rd., Neihu District,
Taipei 11494
TW

00-17-87 (hex) Brother, Brother & Sons ApS
001787 (base 16) Brother, Brother & Sons ApS
Ved Amagerbanen 9
Copenhagen S DK-2300
DK

00-17-61 (hex) Private
001761 (base 16) Private

00-17-68 (hex) Zinwave Ltd
001768 (base 16) Zinwave Ltd
Zinwave Ltd, Harston Mill
Cambridge Cambridgeshire CB2 5GG
GB

00-17-69 (hex) Cymphonix Corp
001769 (base 16) Cymphonix Corp
8871 S. Sandy Parkway, Suite 150
Sandy UT 84070
US

00-17-62 (hex) Solar Technology, Inc.
001762 (base 16) Solar Technology, Inc.
7620 Cetronia Road
Allentown PA 18106
US

00-17-C3 (hex) KTF Technologies Inc.
0017C3 (base 16) KTF Technologies Inc.
4th Fl., Central Tower, 265-3, Seohyun-Dong
Sungnam-City Kyunggi-Do 463-769
KR

00-17-B7 (hex) Tonze Technology Co.
0017B7 (base 16) Tonze Technology Co.
5F-10, No.6, Lane
180,
Taipei 11490
TW

00-17-72 (hex) ASTRO Strobel Kommunikationssysteme GmbH
001772 (base 16) ASTRO Strobel Kommunikationssysteme GmbH
Olefant 1-3
Bergisch Gladbach NRW 51427
DE

00-17-7A (hex) ASSA ABLOY AB
00177A (base 16) ASSA ABLOY AB
Theres Svenssons gata 15
Goteborg 41755
SE

00-17-60 (hex) Naito Densei Machida MFG.CO.,LTD
001760 (base 16) Naito Densei Machida MFG.CO.,LTD
2-17-28 Fuchinobe
Sagamihara Kanagawa 229-0006
JP

00-17-98 (hex) Azonic Technology Co., LTD
001798 (base 16) Azonic Technology Co., LTD
15F-3, No. 163, Sec., 1 Keelung Rd.
Taipei 110

TW

00-17-47 (hex) Trimble
001747 (base 16) Trimble
345 SW Avery Ave
Corvallis OR 97333
US

00-16-F1 (hex) OmniSense, LLC
0016F1 (base 16) OmniSense, LLC
72 sams point road
Ladys Island SC 29907
US

00-16-F4 (hex) Eidicom Co., Ltd.
0016F4 (base 16) Eidicom Co., Ltd.
Polychem
B/D 4th Floor, 900-1
Anyang-si Kyeonggi-do 431-060
KR

00-16-E7 (hex) Dynamix Promotions Limited
0016E7 (base 16) Dynamix Promotions Limited
788-790, Finchley Road
London NW11 7TJ
GB

00-16-E5 (hex) FORDLEY DEVELOPMENT LIMITED
0016E5 (base 16) FORDLEY DEVELOPMENT LIMITED
ROOM 706, 7TH FLOOR, YU SUNG BOON BUILDING, 107-111 DES VOEUX ROAD, CENTRAL,

HK

00-17-20 (hex) Image Sensing Systems, Inc.
001720 (base 16) Image Sensing Systems, Inc.
1600 University Ave. W.
St. Paul MN 55104
US

00-17-1A (hex) Winegard Company
00171A (base 16) Winegard Company
3000 Kirkwood Street
Burlington IA 52601
US

00-17-26 (hex) m2c Electronic Technology Ltd.
001726 (base 16) m2c Electronic Technology Ltd.
2403, 24/F, Nanyang Plaza

Kwuntong Hong Kong 999 999
CN

00-17-21 (hex) FITRE S.p.A.
001721 (base 16) FITRE S.p.A.
Via Valsolda, 15
MILANO MI 20142
IT

00-17-34
(hex) ADC Telecommunications
001734 (base 16) ADC Telecommunications
541 E Trimble Road
San Jose California 95134-1224
US

00-17-2E (hex) FXC Inc.
00172E (base 16) FXC Inc.
10-16 6F, Nihonbashi Tomizawa-Chou, Chuo-ku
Tokyo 103-0006
JP

00-17-2B (hex) Global Technologies Inc.
00172B (base 16) Global Technologies Inc.
4/F Kicox Bldg.,188-5,Guro-Dong,Guro-gu,
Seoul 152-848
KR

00-16-F3 (hex) CAST Information Co., Ltd
0016F3 (base 16) CAST Information Co., Ltd
5F MSA Bldg. 891-43 Dacchi-Dong,
SEOUL 135-280
KR

00-16-F5 (hex) Dalian Golden Hualu Digital Technology Co.,Ltd
0016F5 (base 16) Dalian Golden Hualu Digital Technology Co.,Ltd
No.1 Hua Road,Qixianling
Dalian LiaoNing 116023
CN

00-17-3E (hex) LeucotronEquipamentos Ltda.
00173E (base 16) LeucotronEquipamentos Ltda.
Rua Jorge Dionisio Barbosa, 312
Santa Rita do Sapucai Minas Gerais 37.540-000
BR

00-17-1C

(hex) NT MicroSystems, Inc.
00171C (base 16) NT MicroSystems, Inc.
1-5-3-2F Tamagawadai
Setagaya Tokyo 158-0096
JP

00-17-16 (hex) Qno Technology Inc.
001716 (base 16) Qno Technology Inc.
6F-2, No.25, Puding Road
Hsinchu Taiwan 300
TW

00-16-F9 (hex) CETRTA POT, d.o.o., Kranj
0016F9 (base 16) CETRTA POT, d.o.o., Kranj
Planina 3
Kranj SI 4000
SI

00-17-0A (hex) INEW DIGITAL COMPANY
00170A (base 16) INEW DIGITAL COMPANY
Supply Bureau 3th floor KT&G 203-1,
Daejeon 306-712
KR

00-16-BD (hex) ATI Industrial Automation
0016BD (base 16) ATI Industrial Automation
1031 Goodworth Drive
Apex North Carolina 27539-3869
US

00-16-C0 (hex) Semtech Corporation
0016C0 (base 16) Semtech Corporation
200 Flynn Rd
Camarillo California 93012
US

00-16-C2 (hex) Avtec Systems Inc
0016C2 (base 16) Avtec Systems Inc
14432 Albemarle Point Place
Chantilly Virginia
20151
US

00-16-BA (hex) WEATHERNEWS INC.
0016BA (base 16) WEATHERNEWS INC.
NAKASE 1-3 MTG
CHIBA 262-0032
US

00-16-AF (hex) Shenzhen Union Networks Equipment Co.,Ltd.
0016AF (base 16) Shenzhen Union Networks Equipment Co.,Ltd.
Yihai Square east building 2307, Chuangye road, Nanshan District
Shenzhen Guangdong 518054
CN

00-16-9E (hex) TV One Ltd
00169E (base 16) TV One Ltd
Unit V Continental Approach
Margate Kent CT9 4JG
GB

00-16-9F (hex) Vimtron Electronics Co., Ltd.
00169F (base 16) Vimtron Electronics Co., Ltd.
7F., No.9, Alley 2, Lane 35
Neihu District Taipei City 11492
TW

00-16-8B (hex) Paralan Corporation
00168B (base 16) Paralan Corporation
455 Ruffner St.
San Diego CA 92111
US

00-16-82 (hex) OMS Motion
001682 (base 16) OMS Motion
15201 NW Greenbrier Pkwy, Ste. Suite B1
Beaverton OR 97006
US

00-16-9A (hex) Quadrics Ltd
00169A
(base 16) Quadrics Ltd
1 Bridewell Street
Bristol BS1 2AA
GB

00-16-92 (hex) Scientific-Atlanta, Inc.
001692 (base 16) Scientific-Atlanta, Inc.
5030 Sugarloaf Pkwy
Lawrenceville GA 30044
US

00-16-91 (hex) Moser-Baer AG
001691 (base 16) Moser-Baer AG
Spitalstrasse 7
Sumiswald BE 3454

CH

00-16-88 (hex) ServerEngines LLC
001688 (base 16) ServerEngines LLC
209 N. Fair Oaks Avenue
Sunnyvale CA 94085
US

00-16-B2 (hex) DriveCam Inc
0016B2 (base 16) DriveCam Inc
3954 Murphy Canyon Road
San Diego CA 92123
US

00-16-B3 (hex) Photonicbridges (China) Co., Ltd.
0016B3 (base 16) Photonicbridges (China) Co., Ltd.
No. 900, Yishan road,
Shanghai 200233
US

00-16-AD (hex) BT-Links Company Limited
0016AD (base 16) BT-Links Company Limited
Rm 802, Nan Fung Centre, 264-298 Castle Peak Rd

HK

00-16-DD (hex) Gigabeam Corporation
0016DD (base 16) Gigabeam
Corporation
407 Springpark Place
Herndon VA 20170
US

00-16-C8 (hex) Cisco Systems, Inc
0016C8 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-16-C4 (hex) SiRF Technology, Inc.
0016C4 (base 16) SiRF Technology, Inc.
217 Devcon Dr.
San Jose CA 95112
US

00-16-29 (hex) Nivus GmbH
001629 (base 16) Nivus GmbH
Im Täle 2

Eppingen Baden-Württemberg 75031
DE

00-16-21 (hex) Colorado Vnet
001621 (base 16) Colorado Vnet
255 E. 6th St.
Loveland CO 80537
US

00-16-1A (hex) Dametric AB
00161A (base 16) Dametric AB
Box 120
Skarholmen Stockholm SE-12723
SE

00-16-15 (hex) Nittan Company, Limited
001615 (base 16) Nittan Company, Limited
11-6, 1-chome, Hatagaya
Shibuya-ku Tokyo 151-8535
JP

00-16-2E (hex) Space Shuttle Hi-Tech Co., Ltd.
00162E (base 16) Space Shuttle Hi-Tech Co., Ltd.
No. 226, Wu-Ho St., Wu-Lung
Village,
Hsinchu Hsien 307
TW

00-16-2A (hex) Antik computers & communications s.r.o.
00162A (base 16) Antik computers & communications s.r.o.
Razusova 2
Kosice SK SK-04001
SK

00-16-6E (hex) Arbitron Inc.
00166E (base 16) Arbitron Inc.
9705 Patuxent Woods Drive
Columbia MD 21046
US

00-16-6A (hex) TPS
00166A (base 16) TPS
145 quai de Stalingrad
Issy Les Moulineaux Ile de France 92137
FR

00-16-63 (hex) KBT Mobile
001663 (base 16) KBT Mobile

4F, Polaris I, 15-3, Jeongja-dong, Bundang-gu
Seongnam-si, Gyeonggi-do 463-811
KR

00-16-54 (hex) Flex-P Industries Sdn. Bhd.
001654 (base 16) Flex-P Industries Sdn. Bhd.
No.128-12-2, Menara UMNO,
Georgetown Penang 10400
US

00-16-56 (hex) Nintendo Co., Ltd.
001656 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-16-06 (hex) Ideal Industries
001606 (base
16) Ideal Industries
15070 Ave. of Science #200
San Diego CA 92128
US

00-16-07 (hex) Curves International Inc.
001607 (base 16) Curves International Inc.
100 Ritchie Road
Waco Texas 76712
US

00-16-0A (hex) SWEEX Europe BV
00160A (base 16) SWEEX Europe BV
Ampereweg 3
Delft Zuid-Holland 2627 BG
NL

00-16-02 (hex) CEYON TECHNOLOGY CO.,LTD.
001602 (base 16) CEYON TECHNOLOGY CO.,LTD.
13F Samsung Insurance B/D. #942-9
Suwon-City Gyeonggi-Do 442-832
KR

00-16-00 (hex) CelleBrite Mobile Synchronization
001600 (base 16) CelleBrite Mobile Synchronization
25 Basel St
Petach Tikva 49170
IL

00-15-F4 (hex) Eventide

0015F4 (base 16) Eventide
1 Alsan Way
Little Ferry NJ 07643
US

00-15-ED (hex) Fulcrum Microsystems, Inc.
0015ED (base 16) Fulcrum Microsystems, Inc.
26630 Agoura Road
Calabasas CA 91302
US

00-16-51 (hex) Exeo Systems
001651 (base
16) Exeo Systems
1650, rue Michelin, suite 201
Laval Québec H7L 4R3
CA

00-16-4B (hex) Quorion Data Systems GmbH
00164B (base 16) Quorion Data Systems GmbH
An der Klinge 6
Erfurt Thuringia 99095
DE

00-16-17 (hex) MSI
001617 (base 16) MSI
No.69, Li-De St, Jung-Ho City
Taipei Hsien 235
TW

00-16-10 (hex) Carina Technology
001610 (base 16) Carina Technology
690A Discovery Drive
Huntsville AL 35806
US

00-16-31 (hex) Xteam
001631 (base 16) Xteam
room 801, No.102 international Science & Techology Park
Beijing 8610
CN

00-15-F0 (hex) EGO BV
0015F0 (base 16) EGO BV
Parade 15
's-Hertogenbosch Noord-Brabant 5211KL
NL

00-15-EE (hex) Omnex Control Systems
0015EE (base 16) Omnex Control Systems
#74 - 1833 Coast Meridian Rd.
Port Coquitlam BC V3C 6G5
CA

00-15-94 (hex) BIXOLON CO.,LTD
001594 (base 16) BIXOLON CO.,LTD
502-508,Digital Empire
Bldg.
Yeongtong-Gu,Suwon Gyeonggi-Do 443-813
KR

00-15-90 (hex) Hectronic GmbH
001590 (base 16) Hectronic GmbH
Allmendstraße 15
Bonndorf Baden-Württemberg 79848
DE

00-15-8C (hex) Liab ApS
00158C (base 16) Liab ApS
Oestre Alle 6
Stoevring DK-9530
DK

00-15-8F (hex) NTT Advanced Technology Corporation
00158F (base 16) NTT Advanced Technology Corporation
Shinjuku Mitsui Bldg. 2-1-1, Nishi-shinjuku,
Shinjuku-ku Tokyo 163-0431
JP

00-15-C8 (hex) FlexiPanel Ltd
0015C8 (base 16) FlexiPanel Ltd
7 bis rue Lalo
Paris 75016
FR

00-15-C0 (hex) DIGITAL TELEMEDIA CO.,LTD.
0015C0 (base 16) DIGITAL TELEMEDIA CO.,LTD.
17TH FLOOR, CHINA YUSE BUILDING,
SHENZHEN GUANGDONG 518040
CN

00-15-C2 (hex) 3M Germany
0015C2 (base 16) 3M Germany
Carl Schurz Str. 1
Neuss NRW 41453
US

00-15-83 (hex) IVT corporation
001583 (base 16) IVT corporation
Shangdi Xinxi
road, Haidian District
Beijing 100085
US

00-15-88 (hex) Salutica Allied Solutions Sdn Bhd
001588 (base 16) Salutica Allied Solutions Sdn Bhd
3 Jalan Zarib 6
Lahat, Ipoh Perak 31500
MY

00-15-85 (hex) Aonvision Technolopy Corp.
001585 (base 16) Aonvision Technolopy Corp.
2F, No. 58, Park 2nd Ave. Science-Based Industrial Park,
Hsinchu 300
TW

00-15-A5 (hex) DCI Co., Ltd.
0015A5 (base 16) DCI Co., Ltd.
4th Fl. Susung B/D, 893-4
Daejeon 305-330
KR

00-15-79 (hex) Lunatone Industrielle Elektronik GmbH
001579 (base 16) Lunatone Industrielle Elektronik GmbH
Rennbahnweg 55
Wien 1220
AT

00-15-6B (hex) Perfisans Networks Corp.
00156B (base 16) Perfisans Networks Corp.
4118 14th Avenue
Markham Ontario L3R 0J3
CA

00-15-66 (hex) A-First Technology Co., Ltd.
001566 (base 16) A-First Technology Co., Ltd.
5F, No. 111-2, Shin-Teh Rd.,
San-Chung City Taipei Shien
241
TW

00-15-B2 (hex) Advanced Industrial Computer, Inc.
0015B2 (base 16) Advanced Industrial Computer, Inc.
17970 E. Ajax Circle

City of Industry CA 91748
US

00-15-DA (hex) IRITEL A.D.
0015DA (base 16) IRITEL A.D.
Batajnicki put 23
Beograd Serbia 11080
YU

00-15-0E (hex) OPENBRAIN TECHNOLOGIES CO., LTD.
00150E (base 16) OPENBRAIN TECHNOLOGIES CO., LTD.
#804,ANYANG K-CENTER,1591-9 , BURIM-DONG,DONGAN-GU,
ANYANG KYUNGGI-DO 431-815
KR

00-15-0D (hex) Hoana Medical, Inc.
00150D (base 16) Hoana Medical, Inc.
828 Fort Street Mall
Honolulu HI 96813
US

00-15-06 (hex) Neo Photonics
001506 (base 16) Neo Photonics
910 E. California St.
Sunnyvale CA 94085
US

00-15-04 (hex) GAME PLUS CO., LTD.
001504 (base 16) GAME PLUS CO., LTD.
164-57, Yeonghwa-dong, Jangan-gu
Suwon Gyeonggi-do 440-818
KR

00-15-05 (hex) Actiontec Electronics, Inc
001505 (base 16) Actiontec
Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

00-14-FE (hex) Artech Electronics
0014FE (base 16) Artech Electronics
#301, Yangjae Bldg., 276-2
Seoul 137-895
KR

00-15-39 (hex) Technodrive srl
001539 (base 16) Technodrive srl

Via Leonardo da Vinci 162
Trezzano S/N Milan 20090
IT

00-15-31 (hex) KOCOM
001531 (base 16) KOCOM
5F, KOCOM Bldg., 260-7
SEOUL 157-040
KR

00-15-35 (hex) OTE Spa
001535 (base 16) OTE Spa
via Barsanti 8
Florence FI 50127
IT

00-15-36 (hex) Powertech co.,Ltd
001536 (base 16) Powertech co.,Ltd
#705, dongyoung Venturestel, 199-32
Anyang City Kyoungki-do 430-010
US

00-15-2B (hex) Cisco Systems, Inc
00152B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-15-2C (hex) Cisco Systems, Inc
00152C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-15-28
(hex) Beacon Medical Products LLC d.b.a. BeaconMedaes
001528 (base 16) Beacon Medical Products LLC d.b.a. BeaconMedaes
14408 W 105TH ST
LENEXA KS 66215
US

00-15-4A (hex) WANSHIH ELECTRONIC CO., LTD
00154A (base 16) WANSHIH ELECTRONIC CO., LTD
3F 72, WU KONG 6th RD.,
TAIPEI HSIEN TAIWAN 248
TW

00-15-4C (hex) Saunders Electronics

00154C (base 16) Saunders Electronics
192 Gannett Drive
South Portland ME 04106
US

00-15-4D (hex) Netronome Systems, Inc.
00154D (base 16) Netronome Systems, Inc.
3159 Unionville Road
Cranberry Twp. PA 16066
US

00-15-49 (hex) Dixtal Biomedica Ind. Com. Ltda
001549 (base 16) Dixtal Biomedica Ind. Com. Ltda
R. Eng. Francisco Pitta Brito, 703
São Paulo SP 04753-080
BR

00-15-47 (hex) AiZen Solutions Inc.
001547 (base 16) AiZen Solutions Inc.
10F-1, No.29, Puding Rd.
Hsinchu Hsinchu County 300
TW

00-15-27 (hex) Balboa
Instruments
001527 (base 16) Balboa Instruments
1382 Bell Ave
Tustin CA 92780
US

00-15-21 (hex) Horoquartz
001521 (base 16) Horoquartz
BP 251
FONTENAY LE COMTE VENDEE 85205
FR

00-15-20 (hex) Radiocrafts AS
001520 (base 16) Radiocrafts AS
Sandakerveien 64
Oslo 0484
NO

00-15-1C (hex) LENECO
00151C (base 16) LENECO
6th.,Dong Moon Good Morning Tower 1
Kyeong Ki-Do GoYang-Si 411-817
KR

00-15-3D (hex) ELIM PRODUCT CO.
00153D (base 16) ELIM PRODUCT CO.
602-2 GAYANG TECHNO TOWN, GAYANG, 3-DONG
SEOUL 157-793
KR

00-15-44 (hex) coM.s.a.t. AG
001544 (base 16) coM.s.a.t. AG
Besselstraße 3
Mannheim D-68219
US

00-15-19 (hex) StoreAge Networking Technologies
001519 (base 16) StoreAge Networking Technologies
63 Bar-Yehuda st.
Nesher 36651
IL

00-15-11 (hex) Data Center Systems
001511 (base 16) Data Center Systems
14802 Venture
Drive
Dallas TX 75234
US

00-14-E6 (hex) AIM Infrarotmodule GmbH
0014E6 (base 16) AIM Infrarotmodule GmbH
Soeflingerstraße 100
Ulm BW 89077
DE

00-14-F3 (hex) ViXS Systems Inc
0014F3 (base 16) ViXS Systems Inc
2235 Sheppard Ave East
TORONTO ONTARIO M2J 5B5
CA

00-14-89 (hex) B15402100 - JANDEI, S.L.
001489 (base 16) B15402100 - JANDEI, S.L.
POL. IND. POCOMACO, E-28
LA Coruña 15190
ES

00-14-80 (hex) Hitachi-LG Data Storage Korea, Inc
001480 (base 16) Hitachi-LG Data Storage Korea, Inc
19-1,Cheongho-ri
Pyungtaik Kyunggi-Do 451-713
KR

00-14-BE (hex) Wink communication technology CO.LTD
0014BE (base 16) Wink communication technology CO.LTD
Huijiang Ind Blding Dashi Town
Guang zhou Guang dong 511430
CN

00-14-BA (hex) Carvers SA de CV
0014BA (base 16) Carvers SA de CV
Alvarez del Castillo 1550
Guadalajara Jalisco 44620
MX

00-14-7E (hex) InnerWireless
00147E
(base 16) InnerWireless
1155 Kas Drive, Suite 200
Richardson TX 75081
US

00-14-7D (hex) Aeon Digital International
00147D (base 16) Aeon Digital International
31-6, The Bund Center
Shanghai SH 200002
CN

00-14-76 (hex) MultiCom Industries Limited
001476 (base 16) MultiCom Industries Limited
Room 1206-7, Manhattan Center,
Kwai Chung, N.T.
HK

00-14-73 (hex) Bookham Inc
001473 (base 16) Bookham Inc
10 Brewer Hunt Way
Kanata ON K2K 2B5
CA

00-14-D7 (hex) Datastore Technology Corp
0014D7 (base 16) Datastore Technology Corp
9F, NO.10, SEC.1, Chung Hsing RD., Wu-Ku
Taipei Hsien, 248
TW

00-14-DD (hex) Covergence Inc.
0014DD (base 16) Covergence Inc.
One Clock Tower Place, Suite 200
Maynard MA 01754

US

00-14-D4 (hex) K Technology Corporation
0014D4 (base 16) K Technology Corporation
325 Ganbara
Kami-gun Miyagi-ken 981-4263
JP

00-14-CF
(hex) INVISIO Communications
0014CF (base 16) INVISIO Communications
Stamholmen 157
Hvidovre 2650
DK

00-14-6E (hex) H. Stoll GmbH & Co. KG
00146E (base 16) H. Stoll GmbH & Co. KG
Stollweg
Reutlingen Deutschland 72760
DE

00-14-69 (hex) Cisco Systems, Inc
001469 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-14-B6 (hex) Enswer Technology Inc.
0014B6 (base 16) Enswer Technology Inc.
1F No.70 Sec.2 Chung Shun St.
Taipei 116
TW

00-14-B2 (hex) mCubelogics Corporation
0014B2 (base 16) mCubelogics Corporation
4F, Unibooks B/D, 514-1, Dogok-Dong, KangNam
Seoul 135-270
KR

00-14-AE (hex) Wizlogics Co., Ltd.
0014AE (base 16) Wizlogics Co., Ltd.
Rm#1321, Samchang Plaza, 173,
Seoul 121-745
KR

00-14-DE (hex) Sage Instruments Inc.
0014DE (base 16) Sage Instruments Inc.
240 Airport Blvd.

Freedom CA 95019
US

00-14-DF
(hex) HI-P Tech Corporation
0014DF (base 16) HI-P Tech Corporation
1-27-23 Higashitokorozawa
Tokorozawa Saitama 359-0021
JP

00-14-A6 (hex) Teranetics, Inc.
0014A6 (base 16) Teranetics, Inc.
3965 Freedom Circle
Santa Clara CA 95054
US

00-14-AA (hex) Ashly Audio, Inc.
0014AA (base 16) Ashly Audio, Inc.
847 Holt Road
Webster NY 14580
US

00-14-8A (hex) Elin Ebg Traction Gmbh
00148A (base 16) Elin Ebg Traction Gmbh
Cumberlandstrasse 32
Vienna 1140
AT

00-13-FD (hex) Nokia Danmark A/S
0013FD (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-14-00 (hex) MINERVA KOREA CO., LTD
001400 (base 16) MINERVA KOREA CO., LTD
#203, SH Sienne, Seohyeon-Dong
Seongnam-Si Gyeonggi-Do 463-821
KR

00-13-FC (hex) SiCortex, Inc
0013FC (base 16) SiCortex, Inc
One Clocktower Place
Maynard MA 01754
US

00-13-F6 (hex) Cintech
0013F6

(base 16) Cintech
21a route de la wantzenau
Hoenheim 67800
FR

00-13-F3 (hex) Giga-byte Communications Inc.
0013F3 (base 16) Giga-byte Communications Inc.
8F, No.43, Fu-Hsin Road. Hsin-Tien
Taipei Hsien 231
TW

00-14-4F (hex) Oracle Corporation
00144F (base 16) Oracle Corporation
500 Oracle Parkway
Redwood Shores CA 94065
US

00-14-56 (hex) Edge Products
001456 (base 16) Edge Products
1080 South Depot Drive
Ogden Utah 84404
US

00-14-50 (hex) Heim Systems GmbH
001450 (base 16) Heim Systems GmbH
Friedrich Ebert Strasse
Bergisch Gladbach NRW 51429
DE

00-14-52 (hex) CALCULEX,INC.
001452 (base 16) CALCULEX,INC.
132 W. LAS CRUCES AVE.
LAS CRUCES NEW MEXICO 88001
US

00-14-42 (hex) ATTO CORPORATION
001442 (base 16) ATTO CORPORATION
1-25-23 Hongo,
Tokyo 113-8425
JP

00-13-DA (hex) Diskware Co., Ltd
0013DA (base 16) Diskware
Co., Ltd
1-4-12 Kiba
Koto-ku Tokyo 135-0042
JP

00-13-D8 (hex) Princeton Instruments
0013D8 (base 16) Princeton Instruments
3660 Quakerbridge Road
Trenton NJ 08619
US

00-13-CB (hex) Zenitel Norway AS
0013CB (base 16) Zenitel Norway AS
Sandaker v 24 c
Oslo 0403
NO

00-14-09 (hex) MAGNETI MARELLI S.E. S.p.A.
001409 (base 16) MAGNETI MARELLI S.E. S.p.A.
ZI Nord, Allee d'Argenson
CHATELLERAULT 86100
FR

00-14-0B (hex) FIRST INTERNATIONAL COMPUTER, INC.
00140B (base 16) FIRST INTERNATIONAL COMPUTER, INC.
FIC BUILDING, NO.300, YANG GUANG ST.,
TAIPEI COUNTY 114
TW

00-14-47 (hex) BOAZ Inc.
001447 (base 16) BOAZ Inc.
282 Pukok-ri SongSan-myon Dangzin-gun Chungcheongnam-do, 343-834
Seoul SeoCho-gu 137-070
KR

00-14-3E (hex) AirLink Communications, Inc.
00143E (base 16) AirLink Communications, Inc.
3159 Corporate Place
Hayward CA 94545
US

00-14-3B
(hex) Sensovation AG
00143B (base 16) Sensovation AG
Markhallen -Str
Radolfzell Baden-Württemberg 78315
DE

00-14-5D (hex) WJ Communications, Inc.
00145D (base 16) WJ Communications, Inc.
401 River Oaks Parkway
San Jose CA 95134
US

00-14-2D (hex) Toradex AG
00142D (base 16) Toradex AG
Altsagenstrasse 5
Horw LU 6048
CH

00-14-29 (hex) V Center Technologies Co., Ltd.
001429 (base 16) V Center Technologies Co., Ltd.
7F-7, NO.35, Hsintai Rd.
Jubei City Hsinchu 302
TW

00-14-1E (hex) P.A. Semi, Inc.
00141E (base 16) P.A. Semi, Inc.
3965 Freedom Circle, Fl 8
Santa Clara CA 95054
US

00-14-14 (hex) Jumpnode Systems LLC.
001414 (base 16) Jumpnode Systems LLC.
800 Washington Ave N.
Minneapolis MN 55041
US

00-13-F4 (hex) Psitek (Pty) Ltd
0013F4 (base 16) Psitek (Pty) Ltd
The Vineyards Office Estate
Tyger Valley Cape Town 7530
ZA

00-13-E9
(hex) VeriWave, Inc.
0013E9 (base 16) VeriWave, Inc.
9600 SW Oak St.
Portland OR 97223
US

00-13-5F (hex) Cisco Systems, Inc
00135F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-13-56 (hex) FLIR Radiation Inc
001356 (base 16) FLIR Radiation Inc
100 Midland Rd
Oak Ridge TN 37830

US

00-13-5A (hex) Project T&E Limited
00135A (base 16) Project T&E Limited
Room 3C, 2/F. Wah Shing Center,
Kwun Tong, Kowloon, 852
HK

00-13-61 (hex) Biospace Co., Ltd.
001361 (base 16) Biospace Co., Ltd.
10th Floor, Poonglim Bldg, 823 Yeoksam 1-dong
Gangnam-gu Seoul 135-784
KR

00-13-62 (hex) ShinHeung Precision Co., Ltd.
001362 (base 16) ShinHeung Precision Co., Ltd.
DaeHa Bldg. 401
YoungDungPoGu Seoul 150-050
KR

00-13-4F (hex) Rapidus Wireless Networks Inc.
00134F (base 16) Rapidus Wireless Networks Inc.
47 - 14550 Morris Valley
Road
Agassiz British Columbia V0M 1A1
CA

00-13-78 (hex) Qsan Technology, Inc.
001378 (base 16) Qsan Technology, Inc.
4F., No.103, Ruihu St., Neihu Dist.
Taipei 114
TW

00-13-7A (hex) Netvox Technology Co., Ltd.
00137A (base 16) Netvox Technology Co., Ltd.
No.21-1 Sec. 1 Chung Hua West Road
Tainan 702
TW

00-13-81 (hex) CHIPS & Systems, Inc.
001381 (base 16) CHIPS & Systems, Inc.
4750 Patrick Henry Drive
Santa Clara California 95054
US

00-13-79 (hex) PONDER INFORMATION INDUSTRIES LTD.
001379 (base 16) PONDER INFORMATION INDUSTRIES LTD.
14F,No.77,lane700, Chung-Cheng Road

Hsin-Tien City Taipei Hsien 231
TW

00-13-74 (hex) Atheros Communications, Inc.
001374 (base 16) Atheros Communications, Inc.
529 Almanor Avenue
Sunnyvale CA 94085-3512
US

00-13-CF (hex) 4Access Communications
0013CF (base 16) 4Access Communications
1 N. LaSalle St.
Chicago IL
60602
US

00-13-C9 (hex) Beyond Achieve Enterprises Ltd.
0013C9 (base 16) Beyond Achieve Enterprises Ltd.
XIN LIAN HI-TECH INDUSTRIAL AREA, HU-MEN
DONGGUAN GUANG DONG
CN

00-13-C6 (hex) OpenGear, Inc
0013C6 (base 16) OpenGear, Inc
7984 South Welby Park #101
Salt Lake City UTAH 84088
US

00-13-69 (hex) Honda Electron Co., LED.
001369 (base 16) Honda Electron Co., LED.
Kanematsu Building 3 Floor
Chuo-ku Tokyo 104-0031
JP

00-13-67 (hex) Narayon. Co., Ltd.
001367 (base 16) Narayon. Co., Ltd.
#502 Hyochang T/W 181-3
Seoul 138-220
KR

00-13-5C (hex) OnSite Systems, Inc.
00135C (base 16) OnSite Systems, Inc.
3900 Freedom Circle
Santa Clara CA 95054-1222
US

00-13-AC (hex) Sunmyung Electronics Co., LTD
0013AC (base 16) Sunmyung Electronics Co., LTD

LARGO-PLAZA 8F, Janghang-Dong
Koyang Kyungki 411-837
KR

00-13-A8 (hex) Tanisys Technology
0013A8 (base
16) Tanisys Technology
11001 Lakeline blvd
Austin TX 78717
US

00-13-99 (hex) STAC Corporation.
001399 (base 16) STAC Corporation.
2-16-37 fujimi
sayama-shi saitama 350-1306
JP

00-13-95 (hex) congatec GmbH
001395 (base 16) congatec GmbH
Auwiesenstrasse 5
Deggendorf 94469
DE

00-13-B9 (hex) BM SPA
0013B9 (base 16) BM SPA
VIA MILANO 54/56
Rozzano 20089
IT

00-13-AB (hex) Telemotive AG
0013AB (base 16) Telemotive AG
Breitwiesen
Muehlhausen Baden Wuerttemberg 73347
DE

00-13-BE (hex) Virtual Conexions
0013BE (base 16) Virtual Conexions
410 rue St-Nicolas, suite 600
Montréal QUÉBEC H2Y 2P5
CA

00-12-E8 (hex) Fraunhofer IMS
0012E8 (base 16) Fraunhofer IMS
Finkenstrasse 61
Duisburg NRW 47057
DE

00-12-DD (hex) Shengqu Information Technology (Shanghai) Co., Ltd.

0012DD (base 16) Shengqu Information Technology (Shanghai) Co., Ltd.
No.1
Building,No. 690 Bibo Road,Pudong New Area
Shanghai 201203
CN

00-12-E0 (hex) Codan Limited
0012E0 (base 16) Codan Limited
Technology Park, 2 Second Avenue
Mawson Lakes SA 5095
AU

00-12-DE (hex) Radio Components Sweden AB
0012DE (base 16) Radio Components Sweden AB
Viderogatan 3B
Kista 16422
SE

00-13-18 (hex) DGSTATION Co., Ltd.
001318 (base 16) DGSTATION Co., Ltd.
Rm.401, Bldg.A, Bundang Techno Park 150, Yatap-Dong, Bundang-Gu, Sungnam-Si, Gyunggi-Do, 463-760, Korea
Sungnam Gyunggi 463-760
KR

00-13-1A (hex) Cisco Systems, Inc
00131A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-13-0C (hex) HF System Corporation
00130C (base 16) HF System Corporation
1520-1 Ayukai
Nishiokitama-Gun Yamagata-Ken 992-0771
JP

00-13-0F (hex) EGEMEN Bilgisayar Muh San ve Tic LTD STI
00130F (base 16) EGEMEN Bilgisayar Muh San ve Tic LTD STI
Fevzi
Cakmak 2 Sok 31/A
ANKARA CANKAYA 06440
TR

00-13-2D (hex) iWise Communications
00132D (base 16) iWise Communications
Unit 3C, Arden Grove
Cape Town 7441
ZA

00-13-2C (hex) MAZ Brandenburg GmbH
00132C (base 16) MAZ Brandenburg GmbH
Pascalstraße 10a
Berlin Berlin 10587
DE

00-13-24 (hex) Schneider Electric Ultra Terminal
001324 (base 16) Schneider Electric Ultra Terminal
Industriparken 32
Copenhagen 2750
DK

00-13-26 (hex) ECM Systems Ltd
001326 (base 16) ECM Systems Ltd
Ellifoot Park
HULL East Yorkshire HU12 9DZ
GB

00-13-27 (hex) Data Acquisitions limited
001327 (base 16) Data Acquisitions limited
84 Gasson street
Christchurch
NZ

00-13-1D (hex) Scanvaegt International A/S
00131D (base 16) Scanvaegt International A/S
P.O.Pedersens vej 18
Aarhus Jylland 8200 N
DK

00-13-01 (hex) IronGate S.L.
001301 (base 16) IronGate S.L.
C\Alcala
268, primera planta
Madrid 28027
ES

00-12-F6 (hex) MDK CO.,LTD.
0012F6 (base 16) MDK CO.,LTD.
2-6-27 Ibarame
Kashiwazaki City Niigata 9451341
JP

00-12-F4 (hex) Belco International Co.,Ltd.
0012F4 (base 16) Belco International Co.,Ltd.
212, Yeokok-Dong, Wonmi-gu
Puchun-Si Kyongki-Do 420-100

KR

00-12-F1 (hex) IFOTEC
0012F1 (base 16) IFOTEC
ZAC Champfeuillet
VOIRON 38507
FR

00-12-F5 (hex) Imarda New Zealand Limited
0012F5 (base 16) Imarda New Zealand Limited
Suite G16, National Innovation Centre,
Eveleigh NSW 2015
NZ

00-13-13 (hex) GuangZhou Post & Telecom Equipment ltd
001313 (base 16) GuangZhou Post & Telecom Equipment ltd
139# Zhongshan Ave
Guangzhou Guangdong 510630
CN

00-12-F8 (hex) WNI Resources, LLC
0012F8 (base 16) WNI Resources, LLC
2146 Bering Drive
San Jose California 95131-2013
US

00-13-3B (hex) Speed Dragon Multimedia
Limited
00133B (base 16) Speed Dragon Multimedia Limited
Room 1312, Vanta Industrial Centre,
Kwai Chung N.T.
HK

00-13-38 (hex) FRESENIUS-VIAL
001338 (base 16) FRESENIUS-VIAL
Le Grand Chemin
BREZINS 38590
FR

00-13-42 (hex) Vision Research, Inc.
001342 (base 16) Vision Research, Inc.
190 Parish Drive
Wayne NJ 07470
US

00-12-CB (hex) CSS Inc.
0012CB (base 16) CSS Inc.
151 Superior Blvd.

Mississauga Ontario L5T2L1
CA

00-12-CE (hex) Advanced Cybernetics Group
0012CE (base 16) Advanced Cybernetics Group
2953 Bunker Hill Lane
Santa Clara CA 95054
US

00-12-CA (hex) Mechatronic Brick Aps
0012CA (base 16) Mechatronic Brick Aps
Alsion 2
6400 Sonderborg
DK

00-12-C7 (hex) SECURAY Technologies Ltd.Co.
0012C7 (base 16) SECURAY Technologies Ltd.Co.
Tianjin Haitai Industrial Base ErWei Road
Tianjin 300384
CN

00-12-CD (hex) ASEM SpA
0012CD
(base 16) ASEM SpA
Via Buia, 4
ARTEGNA Udine I-33011
IT

00-12-6A (hex) OPTOELECTRONICS Co., Ltd.
00126A (base 16) OPTOELECTRONICS Co., Ltd.
3-1Kamiaokinishi 1-chome
Kawaguchi Saitama Pref. 333-0845
JP

00-12-68 (hex) IPS d.o.o.
001268 (base 16) IPS d.o.o.
C. Ljubljanske brigade 17
Ljubljana SI-1000
SI

00-12-66 (hex) Swisscom Hospitality Services SA
001266 (base 16) Swisscom Hospitality Services SA
Chemin de l'Etang 65
1211 Geneva
CH

00-12-AB (hex) WiLife, Inc.
0012AB (base 16) WiLife, Inc.

132 E. 13065 S., Suite 150
Draper UT 84020
US

00-12-AC (hex) ONTIMETEK INC.
0012AC (base 16) ONTIMETEK INC.
9Fl.,Owner's Tower
Sungnam-Si Kyunggi-Do 463-825
KR

00-12-C0 (hex) HotLava Systems, Inc.
0012C0 (base 16) HotLava Systems, Inc.
6329 Chelton Drive
Oakland CA 94611
US

00-12-B7 (hex) PTW Freiburg
0012B7 (base 16) PTW Freiburg
Loerracher
Strasse 7
Freiburg 79115
DE

00-12-BC (hex) Echolab LLC
0012BC (base 16) Echolab LLC
267 Boston Road
Billerica MA 01862
US

00-12-BD (hex) Avantec Manufacturing Limited
0012BD (base 16) Avantec Manufacturing Limited
Unit L, 7/F, Camelpaint Bldg, Block 3
852
HK

00-12-7C (hex) SWEGON AB
00127C (base 16) SWEGON AB
Box 300
KVÄNUM VÄSTRA GÖTALAND SE 535 23
SE

00-12-78 (hex) International Bar Code
001278 (base 16) International Bar Code
160 Oak Street
Glastonbury CT 06033
US

00-12-7A (hex) Sanyu Industry Co.,Ltd.

00127A (base 16) Sanyu Industry Co.,Ltd.
Midori-ku Hakusan1-11-11
Yokohama-shi Kanagawa-ken 226-0006
JP

00-12-72 (hex) Redux Communications Ltd.
001272 (base 16) Redux Communications Ltd.
POB 101
Modiin 71700
IL

00-12-9B (hex) E2S Electronic Engineering Solutions, S.L.
00129B (base 16) E2S Electronic Engineering
Solutions, S.L.
Sant Ferran 10
Barcelona 08031
ES

00-12-98 (hex) MICO ELECTRIC(SHENZHEN) LIMITED
001298 (base 16) MICO ELECTRIC(SHENZHEN) LIMITED

SHENZHEN GUANGDONG 518040
CN

00-12-A1 (hex) BluePacket Communications Co., Ltd.
0012A1 (base 16) BluePacket Communications Co., Ltd.
10F-1, No. 420, Sec. 1, Keelung Rd., 110,
Taipei 110
TW

00-12-21 (hex) B.Braun Melsungen AG
001221 (base 16) B.Braun Melsungen AG
Schwarzenberger Weg 73-79
Melsungen Hessen 34212
DE

00-12-12 (hex) PLUS Corporation
001212 (base 16) PLUS Corporation
1033-1, Oshitate
Inagi-shi Tokyo 206-0811
JP

00-12-13 (hex) Metrohm AG
001213 (base 16) Metrohm AG
Oberdorfstrasse 68
Herisau AR 9101
CH

00-12-18 (hex) ARUZE Corporation
001218 (base 16) ARUZE Corporation
Ariake Frontier Building A
Kohtoh-ku Tokyo 135-0063
JP

00-12-06 (hex) iQuest (NZ) Ltd
001206 (base 16) iQuest
(NZ) Ltd
P.O.Box 15169
Hamilton Waikato 3243
NZ

00-12-07 (hex) Head Strong International Limited
001207 (base 16) Head Strong International Limited
Unit 9, 20/F, Metropole Square,
Guangdong
HK

00-12-09 (hex) Fastrax Ltd
001209 (base 16) Fastrax Ltd
Valimotie 7
Vantaa FI 01510
FI

00-12-4D (hex) Inducon BV
00124D (base 16) Inducon BV
Kerklaan 26
Leimuiden ZH 2541 CG
NL

00-12-38 (hex) SetaBox Technology Co., Ltd.
001238 (base 16) SetaBox Technology Co., Ltd.
9F-1, No. 293-3, Sec2, Fu-Hsing S. Rd.
Taipei 106
TW

00-12-3C (hex) Second Rule LLC
00123C (base 16) Second Rule LLC
4119 Walnut Street
Philadelphia PA 19104
US

00-12-3E (hex) ERUNE technology Co., Ltd.
00123E (base 16) ERUNE technology Co., Ltd.
No. 429, Chin-San 2nd street,
Tao Yuan 326
TW

00-11-E3 (hex) Thomson, Inc.
0011E3 (base 16) Thomson, Inc.
101 West 103rd
Street
Indianapolis IN 46290
US

00-11-DC (hex) Glunz & Jensen
0011DC (base 16) Glunz & Jensen
Selandia Park 1
Ringsted 4100
DK

00-12-5E (hex) CAEN
00125E (base 16) CAEN
via Vetraia, 11
Viareggio LUCCA 55049
IT

00-12-5D (hex) CyberNet Inc.
00125D (base 16) CyberNet Inc.
#205, Lotte Suntech City, 513-15
Sungnam Kyunggi 462-806
KR

00-12-54 (hex) Spectra Technologies Holdings Company Ltd
001254 (base 16) Spectra Technologies Holdings Company Ltd
Unit 1301-09, Tower II
852
HK

00-12-4F (hex) nVent
00124F (base 16) nVent
1665 Utica Avenue, Suite 700
St Louis Park MN 55416
US

00-12-49 (hex) Delta Elettronica S.p.A.
001249 (base 16) Delta Elettronica S.p.A.
Via Astico 41
Varese 21100
IT

00-12-3A (hex) Posystech Inc., Co.
00123A (base 16) Posystech Inc., Co.
Room 407, Daeryung Techno Town 6,
Seoul 153-771

KR

00-12-34
(hex) Camille Bauer
001234 (base 16) Camille Bauer
Aargauerstr. 7
Wohlen AG 5610
CH

00-11-F7 (hex) Shenzhen Forward Industry Co., Ltd
0011F7 (base 16) Shenzhen Forward Industry Co., Ltd
4b1 F5.8, Tian An Cyber Park, Chengongmiao,
Shenzhen Guangdong 518040
CN

00-12-0B (hex) Chinasys Technologies Limited
00120B (base 16) Chinasys Technologies Limited
10/F,CAGW Building,No.30 Haidian South Road
Beijing 100080
CN

00-12-05 (hex) Terrasat Communications, Inc.
001205 (base 16) Terrasat Communications, Inc.
235 Vineyard Court, suite 100
Morgan Hill California 95037
US

00-12-23 (hex) Pixim
001223 (base 16) Pixim
915 Linda Vista Ave.
Mountain View CA 94043
US

00-11-90 (hex) Digital Design Corporation
001190 (base 16) Digital Design Corporation
3820 Ventura Drive
Arlington Heights IL 60004
US

00-11-96 (hex) Actuality Systems, Inc.
001196 (base 16) Actuality
Systems, Inc.
25 Corporate Drive
Burlington MA 01803
US

00-11-87 (hex) Category Solutions, Inc
001187 (base 16) Category Solutions, Inc

1021 W. Adams St
Chicago IL 60607
US

00-11-71 (hex) DEXTER Communications, Inc.
001171 (base 16) DEXTER Communications, Inc.
2F Shinsung B/D 404-1
Sungnam Gyunggi 463-420
KR

00-11-67 (hex) Integrated System Solution Corp.
001167 (base 16) Integrated System Solution Corp.
3F, No. 2-1, industry East Rd., I
Hsinchu 300
TW

00-11-6D (hex) American Time and Signal
00116D (base 16) American Time and Signal
140 Third St. South
Dassel MN 55325
US

00-11-60 (hex) ARTDIO Company Co., LTD
001160 (base 16) ARTDIO Company Co., LTD
7th FL.., No.476, Min-Hu RD., Hsin-Chu,
Hsinchu 300
TW

00-11-54 (hex) Webpro Technologies Inc.
001154 (base 16) Webpro Technologies Inc.
2F-1, No.81, Sec. 4, Chungching N. Rd.,
Taipei
111
TW

00-11-A5 (hex) Fortuna Electronic Corp.
0011A5 (base 16) Fortuna Electronic Corp.
3F, No.9, Sec.1, ChangAn East Rd.,
Taipei 104
TW

00-11-C4 (hex) Terminales de Telecomunicacion Terrestre, S.L.
0011C4 (base 16) Terminales de Telecomunicacion Terrestre, S.L.
Poligono Europolis, Calle C 26
Las Rozas Madrid 28230
ES

00-11-CB (hex) Jacobsons AB

0011CB (base 16) Jacobsons AB
Nedralid s 32
Motala 591 97
SE

00-11-7B (hex) Büchi Labortechnik AG
00117B (base 16) Büchi Labortechnik AG
Meierseggstrasse 40
Flawil 9230 SG
CH

00-11-6F (hex) Netforyou Co., LTD.
00116F (base 16) Netforyou Co., LTD.
1121-4 3F, Kwanyang-dong, Dongan-gu
Anyang-si Kyunggi-do 431-804
KR

00-11-51 (hex) Mykotronx
001151 (base 16) Mykotronx
359 Van Ness Way
Torrance CA 90501
US

00-11-4E (hex) 690885 Ontario Inc.
00114E (base 16) 690885 Ontario Inc.
205 Annagem Blvd.
Mississauga
Ontario L5T 2V1
CA

00-11-D3 (hex) NextGenTel Holding ASA
0011D3 (base 16) NextGenTel Holding ASA
Sandslimarka 31
Bergen Hordaland 5861
NO

00-11-AB (hex) TRUSTABLE TECHNOLOGY CO.,LTD.
0011AB (base 16) TRUSTABLE TECHNOLOGY CO.,LTD.
12FL.-1,NO.167,Fu-Shing N.Rd.,Sung-Shan area
Taipei 105
TW

00-0F-E7 (hex) Lutron Electronics Co., Inc.
000FE7 (base 16) Lutron Electronics Co., Inc.
7200 Suter Rd.
Coopersburg PA 18036-1299
US

00-0F-E6 (hex) MBTech Systems, Inc.
000FE6 (base 16) MBTech Systems, Inc.
412 1st Ave SE
Cullman Alabama 35055
US

00-0F-E9 (hex) GW TECHNOLOGIES CO.,LTD.
000FE9 (base 16) GW TECHNOLOGIES CO.,LTD.
No.38 Shangdi Xilu,Haidian District
Beijing 100085
CN

00-0F-E1 (hex) ID DIGITAL CORPORATION
000FE1 (base 16) ID DIGITAL CORPORATION
6th Fl., Mirae Bldg., 271-1, Seohyun-dong, Bundang-ku, Sungnam-si, Keongki-do, South Korea
Sungnam-Si
Keongki-do 463-050
KR

00-0F-DF (hex) SOLOMON Technology Corp.
000FDF (base 16) SOLOMON Technology Corp.
No.42,Sing Zhong Rd.,Nei Hu Dist.,
Taipei 114
TW

00-0F-EF (hex) Thales e-Transactions GmbH
000FEF (base 16) Thales e-Transactions GmbH
Konrad-Zuse-Straße 19-21
Bad Hersfeld Hessen 36251
DE

00-0F-EE (hex) XTec, Incorporated
000FEE (base 16) XTec, Incorporated
5775 Blue Lagoon Drive
Miami Florida 33126
US

00-0F-E4 (hex) Pantech Co.,Ltd
000FE4 (base 16) Pantech Co.,Ltd
Shinsong B/D 3F, 25-12,
Youngdeungpo-GU Seoul 150-711
KR

00-11-02 (hex) Aurora Multimedia Corp.
001102 (base 16) Aurora Multimedia Corp.
205 Commercial Court
Morganville New Jersey 07751-1070
US

00-0F-FE (hex) G-PRO COMPUTER
000FFE (base 16) G-PRO COMPUTER
first arrange C YingHu industrial estate QingXi country DongGuan city
DongGuan GuangDong 523648
CN

00-0F-DA (hex) YAZAKI
CORPORATION
000FDA (base 16) YAZAKI CORPORATION
1500 MISHUKU
SUSONO-CITY SHIZUOKA-PREF 410-1194
JP

00-11-45 (hex) ValuePoint Networks
001145 (base 16) ValuePoint Networks
350 Townsend St Ste 320
San Francisco, CA 94107
US

00-11-27 (hex) TASI, Inc
001127 (base 16) TASI, Inc
5551 Dry Fork Road
Cleves OH 45002
US

00-11-2A (hex) Niko NV
00112A (base 16) Niko NV
Industriepark West 40
Sint-Niklaas O/V 9100
BE

00-11-2B (hex) NetModule AG
00112B (base 16) NetModule AG
Meriedweg 11
Niederwangen CH 3172
CH

00-11-2D (hex) iPulse Systems
00112D (base 16) iPulse Systems
Unit 3, Riverside Industrial Park
Gauteng Johannesburg 1618
ZA

00-11-3C (hex) Micronas GmbH
00113C (base 16) Micronas GmbH
Hans-Bunte-Strasse 19
Freiburg D-79108

DE

00-11-31 (hex) UNATECH. CO.,LTD
001131 (base 16) UNATECH. CO.,LTD
A-727 ,GEOPYUNG TOWN,203-1
KANGNAM-GU
SEOUL 135-010
US

00-11-23 (hex) Appointech, Inc.
001123 (base 16) Appointech, Inc.
6F-2 No.192 Tung-Kuan Rd.
Hsinchu 300
TW

00-11-0F (hex) netplat,Inc.
00110F (base 16) netplat,Inc.
2F Olympia Center, 828-10, Yeoksam-dong, Gangnam-gu
SEOUL 135-935
KR

00-11-15 (hex) EPIN Technologies, Inc.
001115 (base 16) EPIN Technologies, Inc.
Acorn Campus
Cupertino CA 95014
US

00-11-0B (hex) Franklin Technology Systems
00110B (base 16) Franklin Technology Systems
20406 Earl St
Torrance CA 90503
US

00-11-05 (hex) Sunplus Technology Co., Ltd.
001105 (base 16) Sunplus Technology Co., Ltd.
19, Innovation First Road, Hsinchu Science Park
Hsinchu 300
TW

00-0F-D6 (hex) Sarotech Co., Ltd
000FD6 (base 16) Sarotech Co., Ltd
HanGang Bldg, 1549-7, Seocho-Dong,
Seoul 137-070
KR

00-0F-AC (hex) IEEE 802.11
000FAC (base 16) IEEE 802.11
c/o

RAC Administrator
Piscataway NJ 08854
US

00-0F-B3 (hex) Actiontec Electronics, Inc
000FB3 (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

00-0F-9C (hex) Panduit Corp
000F9C (base 16) Panduit Corp
17301 Ridgeland Ave
Tinley Park Illinois 60477
US

00-0F-72 (hex) Sandburst
000F72 (base 16) Sandburst
600 Federal St
Andover MA 01810
US

00-0F-75 (hex) First Silicon Solutions
000F75 (base 16) First Silicon Solutions
13939 Forest Lane
Larkspur CO 80118
US

00-0F-7C (hex) ACTi Corporation
000F7C (base 16) ACTi Corporation
7F., No. 1, Alley 20, Lane 407, Sec. 2, Tiding Blvd.,
Taipei 114
TW

00-0F-7A (hex) BeiJing NuQX Technology CO.,LTD
000F7A (base 16) BeiJing NuQX Technology CO.,LTD
Room 812,8F Tower B,YinWang Center, No.113,Zhi Chun Road,
Beijing 100086
CN

00-0F-C7 (hex) Dionica R&D Ltd.
000FC7 (base 16) Dionica
R&D Ltd.
Bologna Centre, F11
Mosta MST13
MT

00-0F-C8 (hex) Chantry Networks

000FC8 (base 16) Chantry Networks
1900 Minnesota Court
Mississauga Ontario L5N 3C9
CA

00-0F-BB (hex) Nokia Siemens Networks GmbH & Co. KG.
000FBB (base 16) Nokia Siemens Networks GmbH & Co. KG.
Werner-von-Siemens Straße 2-6
Bruchsal Baden-Württemberg 76646
DE

00-0F-BC (hex) Onkey Technologies, Inc.
000FBC (base 16) Onkey Technologies, Inc.
780 Montague Expressway, Inc.
San Jose CA 95131
US

00-0F-B6 (hex) Europlex Technologies
000FB6 (base 16) Europlex Technologies
Clonshaugh Business & Tech. Park
Clonshaugh Dublin 17
IE

00-0F-64 (hex) D&R Electronica Weesp BV
000F64 (base 16) D&R Electronica Weesp BV
Rijnkade 15B
WEESP NH 1382GS
NL

00-0F-B9 (hex) Adaptive Instruments
000FB9 (base 16) Adaptive Instruments
577 Main Street
Hudson MA 01749
US

00-0F-AB (hex) Kyushu
Electronics Systems Inc.
000FAB (base 16) Kyushu Electronics Systems Inc.
3-3, Kongo 2-Chome, Yahatanishi Ward
Kitakyushu City Fukuoka Pref. 807-1263
JP

00-0F-AD (hex) FMN communications GmbH
000FAD (base 16) FMN communications GmbH
Grimmelallee 4
Nordhausen Thüringen 99734
DE

00-0F-54 (hex) Entrelogic Corporation
000F54 (base 16) Entrelogic Corporation
33 Boston Post Rd. West.
Marlborough MA 01752
US

00-0F-53 (hex) Solarflare Communications Inc.
000F53 (base 16) Solarflare Communications Inc.
Suite 100, 7505 Irvine Center Drive
Irvine CA 92618
US

00-0F-51 (hex) Azul Systems, Inc.
000F51 (base 16) Azul Systems, Inc.
1600 Plymouth Street
Mountain View California 94043
US

00-0F-98 (hex) Avamax Co. Ltd.
000F98 (base 16) Avamax Co. Ltd.
B1, No. 51, Section 2, ChongQing S. Rd.
Taipei
TW

00-0F-97 (hex) Avanex Corporation
000F97 (base 16) Avanex
Corporation
40919 Encyclopedia Circle
Fremont CA 94538
US

00-0F-96 (hex) Telco Systems, Inc.
000F96 (base 16) Telco Systems, Inc.
15 Berkshire Road
Mansfield MA 02048
US

00-0F-8B (hex) Orion MultiSystems Inc
000F8B (base 16) Orion MultiSystems Inc
3375 Scott Blvd Suite 338
Santa Clara CA 95054
US

00-0F-8C (hex) Gigawavetech Pte Ltd
000F8C (base 16) Gigawavetech Pte Ltd
1 Jalan Kilang Timor
159303
SG

00-0F-3B (hex) Fuji System Machines Co., Ltd.
000F3B (base 16) Fuji System Machines Co., Ltd.
5-8-10
Zama-Shi Kanagawa-Ken 228-0003
JP

00-0F-37 (hex) Xambala Incorporated
000F37 (base 16) Xambala Incorporated
2674 N. 1st Street
San Jose CA 95134
US

00-0F-38 (hex) Netstar
000F38 (base 16) Netstar
3F,No.347, Yang-kuang St.,Nei-Hu Dis.,
Taipei 114
TW

00-0F-3A (hex) HISHARP
000F3A (base 16) HISHARP
NO.673,CHANG HSING ROAD
PATE CITY,TAOYUAN,
TAIPEI 334
TW

00-0F-34 (hex) Cisco Systems, Inc
000F34 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0F-30 (hex) Raza Microelectronics Inc
000F30 (base 16) Raza Microelectronics Inc
3080 North First Street
San Jose CA 95134
US

00-0F-2E (hex) Megapower International Corp.
000F2E (base 16) Megapower International Corp.
Rm. 403, No 24 , Wu-Chuan 2nd Rd.,
Taipei Hsien 242
TW

00-0F-26 (hex) WorldAccxx LLC
000F26 (base 16) WorldAccxx LLC
4035 Tampa Rd.
Oldsmar FL 34667

US

00-0E-D3 (hex) Epicenter, Inc.
000ED3 (base 16) Epicenter, Inc.
211 B Calle Pintoresco
San Clemente CA 92672
US

00-0E-D7 (hex) Cisco Systems, Inc
000ED7 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0E-C5 (hex) Digital Multitools Inc
000EC5 (base 16) Digital Multitools Inc
9005 Leslie
Street Unit 205
Richmond Hill Ontario L4B 1G7
CA

00-0F-00 (hex) Legra Systems, Inc.
000F00 (base 16) Legra Systems, Inc.
3 Burlington Woods Drive
Burlington MA 01803
US

00-0F-01 (hex) DIGITALKS INC
000F01 (base 16) DIGITALKS INC
14 MARSHALL LANE
WESTON CT 06883
US

00-0F-03 (hex) COM&C CO., LTD
000F03 (base 16) COM&C CO., LTD
2F Woojin BLD 1445-2 Secho-Dong
SEOUL 137-070
KR

00-0F-45 (hex) Stretch, Inc.
000F45 (base 16) Stretch, Inc.
1322 Orleans Drive
Sunnyvale CA 94089
US

00-0F-10 (hex) RDM Corporation
000F10 (base 16) RDM Corporation
608 Weber St. N

Waterloo ON N2V 1K4
CA

00-0F-07 (hex) Mangrove Systems, Inc.
000F07 (base 16) Mangrove Systems, Inc.
10 Fairfield Blvd.
Wallingford CT 06492
US

00-0F-25 (hex) AimValley B.V.
000F25 (base 16) AimValley B.V.
Utrechtseweg 38,
Hilversum NH 1223 TV
NL

00-0F-19 (hex) Boston
Scientific
000F19 (base 16) Boston Scientific
4100 Hamline Ave N.
St. Paul MN 55112
US

00-0E-DF (hex) PLX Technology
000EDF (base 16) PLX Technology
870 Maude Ave.,
Sunnyvale CA 94085
US

00-0E-E1 (hex) ExtremeSpeed Inc.
000EE1 (base 16) ExtremeSpeed Inc.
PO Box 600
Mannville Alberta T0B 2W0
CA

00-0E-C7 (hex) Motorola Korea
000EC7 (base 16) Motorola Korea
Hibrand B/D 17F SW Team Motorola Korea
Yangjaedong Seocho
KR

00-0E-BA (hex) HANMI SEMICONDUCTOR CO., LTD.
000EBA (base 16) HANMI SEMICONDUCTOR CO., LTD.
#532-2, Gajwa-Dong, Seo-Ku,
Incheon, 404 250
KR

00-0E-BC (hex) Paragon Fidelity GmbH
000EBC (base 16) Paragon Fidelity GmbH

Schwadermühlstraße
Cadolzburg 90556
DE

00-0E-6C (hex) Device Drivers Limited
000E6C (base 16) Device Drivers Limited
1-5-1-103
Fuchu-shi Tokyo 1830005
JP

00-0E-6B (hex) Janitza electronics GmbH
000E6B
(base 16) Janitza electronics GmbH
Vor dem Polstück 1
Lahnau Hessen 35633
DE

00-0E-67 (hex) Eltis Microelectronics Ltd.
000E67 (base 16) Eltis Microelectronics Ltd.
Unit 902B, 9/F., Sunbeam Centre
Kwun Tong Kowloon
HK

00-0E-AE (hex) GAWELL TECHNOLOGIES CORP.
000EAE (base 16) GAWELL TECHNOLOGIES CORP.
2F,NO.102,SEC.3,JUNG SHAN RD,
JUNG HO CITY, TAIPEI HSIEN 235
TW

00-0E-A4 (hex) Quantum Corp.
000EA4 (base 16) Quantum Corp.
8560 Upland Dr.
Englewood CA 80112
US

00-0E-9D (hex) Tiscali UK Ltd
000E9D (base 16) Tiscali UK Ltd
20 Broadwick Street
London W1F 8HT
GB

00-0E-57 (hex) Iworld Networking, Inc.
000E57 (base 16) Iworld Networking, Inc.
125 Hanju Bldg, Nonhyun-Dong
Seoul 135010
KR

00-0E-47 (hex) NCI System Co.,Ltd.

000E47 (base 16) NCI System Co.,Ltd.
#206, Kayang Techno-Town, 1487, Kayang 3 dong, Kangseo-Ku, Seoul, Korea
Seoul
157-810
KR

00-0E-A8 (hex) United Technologists Europe Limited
000EA8 (base 16) United Technologists Europe Limited
UTEL Laboratories, Wolves Farm Lane
Hadleigh Suffolk IP7 6BH
GB

00-0E-AA (hex) Scalent Systems, Inc.
000EAA (base 16) Scalent Systems, Inc.
490 S. California Ave
Palo Alto CA 94306
US

00-0E-AC (hex) MINTRON ENTERPRISE CO., LTD.
000EAC (base 16) MINTRON ENTERPRISE CO., LTD.
NO.3,Wu-Kung 5Rd., Wu-Ku Ind Park
Taipei County 248
TW

00-0E-8B (hex) Astarte Technology Co, Ltd.
000E8B (base 16) Astarte Technology Co, Ltd.
11F, No. 166 Dah-Yeh Rd.
Peitou, Taipei
TW

00-0E-80 (hex) Thomson Technology Inc
000E80 (base 16) Thomson Technology Inc
9087A 198th ST
Surrey BC V1M-3B1
CA

00-0E-85 (hex) Catalyst Enterprises, Inc.
000E85 (base 16) Catalyst Enterprises, Inc.
3385 Scott Blvd
Santa Clara CA 95054
US

00-0E-74 (hex) Solar Telecom. Tech
000E74
(base 16) Solar Telecom. Tech
B B/D, 4F, Samho Venture Tower
Seoul 137-941
KR

00-0E-7A (hex) GemWon Communications Co., Ltd.
000E7A (base 16) GemWon Communications Co., Ltd.
3FL.,NO.32,Lane 135,Shianjeng 9th Rd.,Jubei City
Hsinchu 302
TW

00-0E-65 (hex) TransCore
000E65 (base 16) TransCore
8600 Jefferson St NE
Albuquerque NM 87113
US

00-0E-5F (hex) activ-net GmbH & Co. KG
000E5F (base 16) activ-net GmbH & Co. KG
Konrad-Zuse-Str. 4
Bochum 44801
DE

00-0D-F5 (hex) Teletronics International Inc.
000DF5 (base 16) Teletronics International Inc.
2 Choke Cherry Road
Rockville MD 20850
US

00-0D-F7 (hex) Space Dynamics Lab
000DF7 (base 16) Space Dynamics Lab
1695 N. Research Park Way
North Logan UT 84341
US

00-0D-EB (hex) CompXs Limited
000DEB (base 16) CompXs Limited
Robert Denholm House
Redhill Surrey RH1 4HW
GB

00-0D-EE (hex) Andrew
RF Power Amplifier Group
000DEE (base 16) Andrew RF Power Amplifier Group
40 Technology Drive
Warren NJ 07059
US

00-0D-EF (hex) Soc. Coop. Bilanciai
000DEF (base 16) Soc. Coop. Bilanciai
via S.Ferrari 16
Campogalliano Modena 41011

IT

00-0D-E7 (hex) Snap-on OEM Group
000DE7 (base 16) Snap-on OEM Group
2333 East Walton Blvd.
Auburn Hills MI 48326
US

00-0D-F0 (hex) QCOM TECHNOLOGY INC.
000DF0 (base 16) QCOM TECHNOLOGY INC.
4F., No.301, Sec. 2, Tiding Blvd.
Taipei City Neihu District 114
TW

00-0D-E5 (hex) Samsung Thales
000DE5 (base 16) Samsung Thales
259 Gongdan-Dong
Gumi-City Gyeongsangbuk-do 730-904
KR

00-0D-DD (hex) Profilo Telra Elektronik Sanayi ve Ticaret. A.
000DDD (base 16) Profilo Telra Elektronik Sanayi ve Ticaret. A.
Cemal Sahir Sokak NO:26-28
stanbul TURKEY 34255
TR

00-0E-0B (hex) Netac Technology Co., Ltd.
000E0B (base 16) Netac
Technology Co., Ltd.
6F, Incubator Building, China Academy of Science &Tech Development,
ShenZhen GuangDong 518057
CN

00-0E-11 (hex) BDT Büro und Datentechnik GmbH & Co.KG
000E11 (base 16) BDT Büro und Datentechnik GmbH & Co.KG
Saline 29
Rottweil Baden-Württemberg D-78628
DE

00-0D-C0 (hex) Spagat AS
000DC0 (base 16) Spagat AS
Tonne Hutifeldtpl. 2
Halden Ostfold 1767
NO

00-0E-32 (hex) Kontron Medical
000E32 (base 16) Kontron Medical
Reinacherstrasse 131

Basel 4002
CH

00-0E-1F (hex) TCL Networks Equipment Co., Ltd.
000E1F (base 16) TCL Networks Equipment Co., Ltd.
No.5 Industrial Road,Shekou
ShenZhen GuangDong 518067
CN

00-0E-46 (hex) Niigata Seimitsu Co.,Ltd.
000E46 (base 16) Niigata Seimitsu Co.,Ltd.
3335-2, Shimonaka, Sanwa-mura
Nakakubiki-gun Niigata 943-0222
JP

00-0E-43 (hex) G-Tek Electronics Sdn. Bhd.
000E43 (base 16) G-Tek Electronics Sdn.
Bhd.
2493 Mukim 1, Lorong Perusahaan Lapan
Perai Penang 13600
MY

00-0E-44 (hex) Digital 5, Inc.
000E44 (base 16) Digital 5, Inc.
101 Grovers Mill Rd.
Lawrenceville NJ 08648
US

00-0D-F8 (hex) ORGA Kartensysteme GmbH
000DF8 (base 16) ORGA Kartensysteme GmbH
Konrad-Zuse-Ring 1
Flintbek Schleswig-Holstein 24220
DE

00-0E-26 (hex) Gincom Technology Corp.
000E26 (base 16) Gincom Technology Corp.
15F., No. 284, Sec.3, Sanmin Rd., Taoyuan City,
Taoyuan, 330
TW

00-0E-16 (hex) SouthWing S.L.
000E16 (base 16) SouthWing S.L.
C/Avila, 48-50
Barcelona 08005
ES

00-0D-82 (hex) PHSNET
000D82 (base 16) PHSNET

Piazza Mariano Rumor, 18
Arcugnano Vicenza 36057
IT

00-0D-83 (hex) Sanmina-SCI Hungary Ltd.
000D83 (base 16) Sanmina-SCI Hungary Ltd.
Kota Jozsef u. 2.
Tatabanya Komarom-Esztergom 2800
HU

00-0D-7F (hex) MIDAS COMMUNICATION TECHNOLOGIES PTE LTD (Foreign Branch)
000D7F (base 16) MIDAS COMMUNICATION TECHNOLOGIES PTE LTD (Foreign Branch)
04-12, Phase Z.Ro Technoprenuer Park
Singapore 139 347
SG

00-0D-75 (hex) Kobian Pte Ltd - Taiwan Branch
000D75 (base 16) Kobian Pte Ltd - Taiwan Branch
2F, No.580, Rueikuang Rd.,Nei Hu,Taipei,
Taipei Nei Hu 114
TW

00-0D-78 (hex) Engineering & Security
000D78 (base 16) Engineering & Security
Martiri della Libertà 32/4
Genova 16155
IT

00-0D-79 (hex) Dynamic Solutions Co,.Ltd.
000D79 (base 16) Dynamic Solutions Co,.Ltd.
17-8 Nihonbashi Hakozaki-cho
Chuo-ku Tokyo 103-0015
JP

00-0D-A7 (hex) Private
000DA7 (base 16) Private

00-0D-AD (hex) Dataprobe, Inc.
000DAD (base 16) Dataprobe, Inc.
1B Pearl Court
Allendale NJ 07401
US

00-0D-A9 (hex) INGETEAM
000DA9 (base 16) INGETEAM
Parque Tecnologico de Bizkaia, Edificio 110
Zamudio Bizkaia 48170

ES

00-0D-AB
(hex) Parker Hannifin GmbH Electromechanical Division Europe
000DAB (base 16) Parker Hannifin GmbH Electromechanical Division Europe
Robert-Bosch-Straße 22
Offenburg Baden-Württemberg 77656
DE

00-0D-A8 (hex) Teletronics Technology Corporation
000DA8 (base 16) Teletronics Technology Corporation
2525 Pearl Buck Road
Bristol Pennsylvania 19007
US

00-0D-9E (hex) TOKUDEN OHIZUMI SEISAKUSYO Co.,Ltd.
000D9E (base 16) TOKUDEN OHIZUMI SEISAKUSYO Co.,Ltd.
Yoshida 1221
Ouragun Ohizumi Gunma 370-0523
JP

00-0D-C6 (hex) DigiRose Technology Co., Ltd.
000DC6 (base 16) DigiRose Technology Co., Ltd.
No. 1, Alley 20, Lane 26 Rueiguang Road,
Taipei 114
TW

00-0D-C1 (hex) SafeWeb Inc
000DC1 (base 16) SafeWeb Inc
2200 Powell St. Ste 590
Emeryville CA 94608
US

00-0D-BA (hex) Océ Document Technologies GmbH
000DBA (base 16) Océ Document Technologies GmbH
Max-Stromeyer-Straße 116
Konstanz
78467
DE

00-0D-BD (hex) Cisco Systems, Inc
000DBD (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0D-6D (hex) K-Tech Devices Corp.
000D6D (base 16) K-Tech Devices Corp.

14016-30
nakaminowa minowamachi kamiina nagano 399-4601
JP

00-0D-6E (hex) K-Patents Oy
000D6E (base 16) K-Patents Oy
P.O. Box 77
VANTAA FI 01511
FI

00-0D-6A (hex) Redwood Technologies LTD
000D6A (base 16) Redwood Technologies LTD
Amber House
Bracknell Berkshire RG12 1JB
GB

00-0D-B5 (hex) GLOBALSAT TECHNOLOGY CORPORATION
000DB5 (base 16) GLOBALSAT TECHNOLOGY CORPORATION
Far East Century Park
Taipei Hsien 235
TW

00-0D-B4 (hex) Stormshield
000DB4 (base 16) Stormshield
2-10 rue Marceau
ISSY LES MOULINEAUX 92130
FR

00-0D-AF (hex) Plexus Corp (UK) Ltd
000DAF (base 16) Plexus Corp (UK) Ltd
Pinnacle Hill
Kelso Roxburghshire TD5 8XX
GB

00-0D-B1
(hex) Japan Network Service Co., Ltd.
000DB1 (base 16) Japan Network Service Co., Ltd.
Matoba Bldg. 6F,
Chuo-ku Tokyo 104-0042
JP

00-0D-A3 (hex) Emerging Technologies Limited
000DA3 (base 16) Emerging Technologies Limited
Wong's Industrial Centre, 180 Wai Yip St
Nil
HK

00-0D-A4 (hex) DOSCH & AMAND SYSTEMS AG

000DA4 (base 16) DOSCH & AMAND SYSTEMS AG
Scheinerstrasse 9
Munich Bavaria 81679
DE

00-0D-9A (hex) INFOTEC LTD
000D9A (base 16) INFOTEC LTD
The Maltings
Ashby-de-la-Zouch Leicestershire LE65 2PS
GB

00-0D-96 (hex) Vtera Technology Inc.
000D96 (base 16) Vtera Technology Inc.
No 34, Industrial East. 4th Rd.
HsinChu 300
TW

00-0D-8B (hex) T&D Corporation
000D8B (base 16) T&D Corporation
5652-169 Sasaga
Matsumoto Nagano 399-0033
JP

00-0D-90 (hex) Factum Electronics AB
000D90 (base 16) Factum Electronics AB
Teknikringen
1H
Linköping Östergötland 583 30
SE

00-0D-85 (hex) Tapwave, Inc.
000D85 (base 16) Tapwave, Inc.
1901 Landings Drive
Mountain View CA 94043
US

00-0D-5D (hex) Raritan Computer, Inc
000D5D (base 16) Raritan Computer, Inc
400 Cottontail Lane
Somerset NJ 08873
US

00-0D-63 (hex) DENT Instruments, Inc.
000D63 (base 16) DENT Instruments, Inc.
64 NW Franklin Ave
Bend OR 97701
US

00-0D-66 (hex) Cisco Systems, Inc
000D66 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0D-21 (hex) WISCORE Inc.
000D21 (base 16) WISCORE Inc.
6F, No. 180, Sec. 2, Duenhua S. Rd,
Taipei 106
TW

00-0D-23 (hex) Smart Solution, Inc
000D23 (base 16) Smart Solution, Inc
465 West Lawndale #B
Salt Lake City UT 84115
US

00-0D-27 (hex) MICROPLEX Printware AG
000D27 (base 16) MICROPLEX Printware AG
Panzerstraße 5
Varel Niedersachsen 26316
DE

00-0D-1B
(hex) Kyoto Electronics Manufacturing Co., Ltd.
000D1B (base 16) Kyoto Electronics Manufacturing Co., Ltd.
56-2, Ninodan-cho, Shinden,
Kyoto-City Kyoto Prefecture 601-8317
JP

00-0D-1D (hex) HIGH-TEK HARNESS ENT. CO., LTD.
000D1D (base 16) HIGH-TEK HARNESS ENT. CO., LTD.
4F-6, No18, Pu-Ting Rd. Hsinchu, Taiwan
Hsinchu 300
TW

00-0C-C9 (hex) ILWOO DATA & TECHNOLOGY CO.,LTD
000CC9 (base 16) ILWOO DATA & TECHNOLOGY CO.,LTD
1475-10,HWA HYUN BLD. 2nd Floor,
SEOUL 137-071
KR

00-0D-40 (hex) Verint Loronix Video Solutions
000D40 (base 16) Verint Loronix Video Solutions
12526 High Bluff Dr. #170
San DIego CA 92130
US

00-0D-37 (hex) WIPLUG
000D37 (base 16) WIPLUG
RUA DR. AGOSTINHO GOULAO
PETROPOLIS RIO JANEIRO 25730050
BR

00-0D-02 (hex) NEC Platforms, Ltd.
000D02 (base 16) NEC Platforms, Ltd.
800 Shimomata
Kakegawa Shizuoka 436-8501
JP

00-0D-07
(hex) Calrec Audio Ltd
000D07 (base 16) Calrec Audio Ltd
Nutclough Mill
Hebden Bridge West Yorkshire HX7 8EZ
GB

00-0C-DD (hex) AOS technologies AG
000CDD (base 16) AOS technologies AG
Taefernstrasse 20
Baden - Daettwil AG CH-5405
CH

00-0C-CD (hex) IEC - TC57
000CCD (base 16) IEC - TC57
3, rue de Varembé
Geneva GE 1211
CH

00-0C-CB (hex) Design Combus Ltd
000CCB (base 16) Design Combus Ltd
Hatanapaan valtatie 34A
Tampere FIN-33100
FI

00-0C-E9 (hex) BLOOMBERG L.P.
000CE9 (base 16) BLOOMBERG L.P.
731 Lexington Ave
NEW YORK NEW YORK 10022
US

00-0C-EA (hex) aphona Kommunikationssysteme
000CEA (base 16) aphona Kommunikationssysteme
Entwicklungs- und VertriebsgmbH
Wien 1230

AT

00-0C-DA (hex) FreeHand Systems, Inc.
000CDA (base 16) FreeHand Systems, Inc.
95 First St.
Los Altos CA 94022
US

00-0D-33 (hex) Prediwave Corp.
000D33
(base 16) Prediwave Corp.
48431 Milmont Drive
Fremont CA 94538
US

00-0D-2F (hex) AIN Comm.Tech.Co., LTD
000D2F (base 16) AIN Comm.Tech.Co., LTD
4F, No.76, Sec2 Mintzu Rd
Jung-Li City 320
TW

00-0D-09 (hex) Yuehua(Zhuhai) Electronic CO. LTD
000D09 (base 16) Yuehua(Zhuhai) Electronic CO. LTD
4Rd Pingdong,Nanping Science & Technolog
Zhuhai Guangdong 519070
CN

00-0C-FB (hex) Korea Network Systems
000CFB (base 16) Korea Network Systems
206 JangYoungSil Bldg, 1688-5
Taejeon 306-230
KR

00-0C-F5 (hex) InfoExpress
000CF5 (base 16) InfoExpress
170 S. Whisman Road, Suite B
Mountain View CA 94041
US

00-0C-EE (hex) jp-embedded
000CEE (base 16) jp-embedded
Buen 21, Nr. Dalby
Borup 4140
DK

00-0C-85 (hex) Cisco Systems, Inc
000C85 (base 16) Cisco Systems, Inc
80 West Tasman Drive

San Jose CA 94568
US

00-0C-84 (hex) Eazix, Inc.
000C84 (base
16) Eazix, Inc.
Unit 301 Plaza Building B
Muntinlupa City Rizal 1770
PH

00-0C-7A (hex) DaTARIUS Technologies GmbH
000C7A (base 16) DaTARIUS Technologies GmbH
Anton Maria Schyrle Str. 7
Reutte Tirol 6600
AT

00-0C-79 (hex) Extel Communications P/L
000C79 (base 16) Extel Communications P/L
399 Ferntree Gully Road
Mt Waverley Victoria 3149
AU

00-0C-75 (hex) Oriental integrated electronics. LTD
000C75 (base 16) Oriental integrated electronics. LTD
281-34 Dondang-dong Wonmi-Gu
Bucheon 420-808
KR

00-0C-6D (hex) Edwards Ltd.
000C6D (base 16) Edwards Ltd.
Marshall Road
Eastbourne East Sussex BN22 9BA
GB

00-0C-70 (hex) ACC GmbH
000C70 (base 16) ACC GmbH
Am Sandfeld 15
Karlsruhe Baden 76149
DE

00-0C-6A (hex) MBARI
000C6A (base 16) MBARI
7700 Sandholdt Road
Moss Landing CA 95039
US

00-0C-6B (hex) Kurz Industrie-Elektronik GmbH
000C6B

(base 16) Kurz Industrie-Elektronik GmbH
Foehrenbachstraße 3
Remshalden Baden-Württemberg 73630
DE

00-0C-B3 (hex) ROUND Co.,Ltd.
000CB3 (base 16) ROUND Co.,Ltd.
3-9 Gokashou-Shibahigashi
uji kyoto 611-0011
JP

00-0C-A5 (hex) Naman NZ LTd
000CA5 (base 16) Naman NZ LTd
13/17 Kawana St
Auckland
NZ

00-0C-A9 (hex) Ebtron Inc.
000CA9 (base 16) Ebtron Inc.
1663 Hwy 701 South
Loris SC 29569
US

00-0C-9A (hex) Hitech Electronics Corp.
000C9A (base 16) Hitech Electronics Corp.
4f, No. 501-15 Chung-Cheng Rd.
Shin-tien Taipei Shien 231
TW

00-0C-91 (hex) Riverhead Networks Inc.
000C91 (base 16) Riverhead Networks Inc.

Cupertino CA 95014
US

00-0C-5D (hex) CHIC TECHNOLOGY (CHINA) CORP.
000C5D (base 16) CHIC TECHNOLOGY (CHINA) CORP.
7th Building,Shi'ao Ind.Zone,Longhua Tow
Shenzhen Guangdong 518109
CN

00-0C-4F (hex) UDTech Japan Corporation
000C4F
(base 16) UDTech Japan Corporation
Hamacho Hanacho Bldg, 2F
Chuo-ku Tokyo 103-0007
JP

00-0C-62 (hex) ABB AB, Cewe-Control
000C62 (base 16) ABB AB, Cewe-Control
Dept. LPCC/RE
Vasteras 721 61
SE

00-0C-9D (hex) UbeeAirWalk, Inc.
000C9D (base 16) UbeeAirWalk, Inc.
1850 N. GreenVille Ave., Suite 164
Richardson TX 75081
US

00-0C-9F (hex) NKE Corporation
000C9F (base 16) NKE Corporation
366-1 Hishikawa-cho Hazukashi Fushimi-ku
Kyoto-shi Kyoto 612-8487
JP

00-0C-4C (hex) Arcor AG&Co.
000C4C (base 16) Arcor AG&Co.
Alfred-Herrhausen-Allee 1
Eschborn Hessen 65760
DE

00-0C-47 (hex) SK Teletech(R&D Planning Team)
000C47 (base 16) SK Teletech(R&D Planning Team)
21th FL Startower 737, Yeoksam-dong
Seoul 135-984
KR

00-0C-AF (hex) TRI TERM CO.,LTD.
000CAF (base 16) TRI TERM CO.,LTD.
21-5 HIRAIDE KOUGIYO DANCHI
TOCHIGI 321-0905
JP

00-0C-15
(hex) CyberPower Systems, Inc.
000C15 (base 16) CyberPower Systems, Inc.
6F, No. 32, Sec. 1, Chenggong Rd.
Taipei 115
TW

00-0C-16 (hex) Concorde Microsystems Inc.
000C16 (base 16) Concorde Microsystems Inc.
10427 Cogdill Road, Suite 500
Knoxville TN 37932
US

00-0B-DA (hex) EyeCross Co.,Inc.
000BDA (base 16) EyeCross Co.,Inc.
3F Iioka-Building
Tokyo Ueno Taitoh-ku 3-4-1 110-0005
JP

00-0B-D6 (hex) Paxton Access Ltd
000BD6 (base 16) Paxton Access Ltd
Paxton House
Brighton East Sussex BN1 9HU
GB

00-0C-1F (hex) Glimmerglass Networks
000C1F (base 16) Glimmerglass Networks
26142 Eden Landing Road
Hayward California 94545
US

00-0C-20 (hex) Fi WIn, Inc.
000C20 (base 16) Fi WIn, Inc.
8F, No. 10, Prosperity Rd. 1,
Hsin Chu 300
TW

00-0C-02 (hex) ABB Oy
000C02 (base 16) ABB Oy
P.O.Box 89
Turku FIN-20521
FI

00-0B-FF (hex) Berkeley Camera
Engineering
000BFF (base 16) Berkeley Camera Engineering
127 National Street
Santa Cruz CA 95060
US

00-0B-D0 (hex) XiMeta Technology Americas Inc.
000BD0 (base 16) XiMeta Technology Americas Inc.
54 Ray Street
New Brunswick NJ 08901
US

00-0B-D4 (hex) Beijing Wise Technology & Science Development Co.Ltd
000BD4 (base 16) Beijing Wise Technology & Science Development Co.Ltd
3rd Floor Caihong Building, No.2,1st Wes
Beijing 100088

CN

00-0B-EC (hex) NIPPON ELECTRIC INSTRUMENT, INC.
000BEC (base 16) NIPPON ELECTRIC INSTRUMENT, INC.
3-56-21 Hirado
Totsuka-ku Yokohama-shi 244-0802
JP

00-0B-E7 (hex) COMFLUX TECHNOLOGY INC.
000BE7 (base 16) COMFLUX TECHNOLOGY INC.
Room 131,Bldg. 53,195-58,Sec.4,
Hsinchu 310
TW

00-0C-3F (hex) Cogent Defence & Security Networks,
000C3F (base 16) Cogent Defence & Security Networks,
Meadows Road,
Newport, South Wales, NP19 4SS
GB

00-0C-30
(hex) Cisco Systems, Inc
000C30 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0B-C5 (hex) SMC Networks, Inc.
000BC5 (base 16) SMC Networks, Inc.
38 Tesla
Irvine CA 92618
US

00-0B-C6 (hex) ISAC, Inc.
000BC6 (base 16) ISAC, Inc.
PO Box 7682
Auburn CA 95604
US

00-0C-09 (hex) Hitachi IE Systems Co., Ltd
000C09 (base 16) Hitachi IE Systems Co., Ltd
Saiwai-cho 120-1,Inazawa-shi
Inazawa-shi Aichi 492-8622
JP

00-0B-5E (hex) Audio Engineering Society Inc.
000B5E (base 16) Audio Engineering Society Inc.
60 East 42nd Street, Suite #2520

New York NY 10165-2520
US

00-0B-5F (hex) Cisco Systems, Inc
000B5F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0B-60 (hex) Cisco Systems, Inc
000B60 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0B-65 (hex) Sy.A.C.
srl
000B65 (base 16) Sy.A.C. srl
via Caboto 19/1
Trieste 34147
IT

00-0B-61 (hex) Friedrich Lütze GmbH & Co. KG
000B61 (base 16) Friedrich Lütze GmbH & Co. KG
Bruckwiesenstraße 17 - 19
Weinstadt (Großheppach) BW 71384
DE

00-0B-59 (hex) ScriptPro, LLC
000B59 (base 16) ScriptPro, LLC
5828 Reeds Rd.
Mission Kansas 66202
US

00-0B-5C (hex) Newtech Co.,Ltd
000B5C (base 16) Newtech Co.,Ltd
K-Bldg 1-7-7 Shibadaimon Minato-ku
Tokyo 105-0012
JP

00-0B-83 (hex) DATAWATT B.V.
000B83 (base 16) DATAWATT B.V.
HOUTSTRAAT 5
WOLVEGA NL-8471-ZX
NL

00-0B-71 (hex) Litchfield Communications Inc.
000B71 (base 16) Litchfield Communications Inc.

27 Princeton Road
Watertown CT 06795
US

00-0B-74 (hex) Kingwave Technology Co., Ltd.
000B74 (base 16) Kingwave Technology Co., Ltd.
18F-3, No. 186, Jian-Yi Rd.
Chung-Ho Taipei 235
TW

00-0B-73 (hex) Kodeos
Communications
000B73 (base 16) Kodeos Communications
111 Corporate Blvd
South Plainfield NJ 07080
US

00-0B-76 (hex) ET&T Technology Co. Ltd.
000B76 (base 16) ET&T Technology Co. Ltd.
6F No.101, SongJiang Rd.
Taipei 104
TW

00-0B-7E (hex) SAGINOMIYA Seisakusho Inc.
000B7E (base 16) SAGINOMIYA Seisakusho Inc.
535 Sasai
Sayamashi Saitamaken 350-1395
JP

00-0B-80 (hex) Lycium Networks
000B80 (base 16) Lycium Networks
9 Hamenofim St.
Herzliya Israel 46733
IL

00-0B-7C (hex) Telex Communications
000B7C (base 16) Telex Communications
8601 E. Cornhusker Hwy
Lincoln NE 68505
US

00-0B-C1 (hex) Bay Microsystems, Inc.
000BC1 (base 16) Bay Microsystems, Inc.
2055 Gateway Place
Santa Jose CA 95110
US

00-0B-A7 (hex) Maranti Networks

000BA7 (base 16) Maranti Networks
3061-B Zanker Road
San Jose CA 95134
US

00-0B-AA (hex) Aiphone co.,Ltd
000BAA
(base 16) Aiphone co.,Ltd
2-18 Jinno-Cho
Nagoya Aichi-ken 456-8666
JP

00-0B-39 (hex) Keisoku Giken Co.,Ltd.
000B39 (base 16) Keisoku Giken Co.,Ltd.
Tsuzuki-ku
Yokohama Kanagawa 224-0037
JP

00-0B-33 (hex) Vivato Technologies
000B33 (base 16) Vivato Technologies
444 Cedros Ave
Solana Beach CA 92027
US

00-0B-3E (hex) BittWare, Inc
000B3E (base 16) BittWare, Inc
31 B South Main St
Concord NH 03301
US

00-0B-A4 (hex) Shiron Satellite Communications Ltd. (1996)
000BA4 (base 16) Shiron Satellite Communications Ltd. (1996)
23 Hasivim St.
Petach Tikva 49170
IL

00-0B-99 (hex) SensAble Technologies, Inc.
000B99 (base 16) SensAble Technologies, Inc.
15 Constitution Way
Woburn MA 01801
US

00-0B-9C (hex) TriBeam Technologies, Inc.
000B9C (base 16) TriBeam Technologies, Inc.
116 W. Eastman St., suite 208
Arlington Heights IL 60004
US

00-0B-5B
(hex) Rincon Research Corporation
000B5B (base 16) Rincon Research Corporation
101 N. Wilmot Rd.
Tucson AZ 85711
US

00-0B-89 (hex) Top Global Technology, Ltd.
000B89 (base 16) Top Global Technology, Ltd.
Room 3310, China World Tower No. 1
Beijing Beijing 100004
CN

00-0B-8B (hex) KERAJET, S.A.
000B8B (base 16) KERAJET, S.A.
Avda. del Boverot, 24
Almazora Castellon E-12550
ES

00-0B-41 (hex) Ing. Büro Dr. Beutlhauser
000B41 (base 16) Ing. Büro Dr. Beutlhauser
Roemerweg 4
Grassau D-83224
DE

00-0A-F6 (hex) Emerson Climate Technologies Retail Solutions, Inc.
000AF6 (base 16) Emerson Climate Technologies Retail Solutions, Inc.
1640 Airport Rd
Kennesaw GA 30144-7038
US

00-0A-EA (hex) ADAM ELEKTRONIK LTD. TI
000AEA (base 16) ADAM ELEKTRONIK LTD. TI
UZUNAYNA CAD. CELENK SOK. NO:1 Çakmak
stanbul 81260
TR

00-0A-E3 (hex) YANG MEI TECHNOLOGY CO., LTD
000AE3
(base 16) YANG MEI TECHNOLOGY CO., LTD
21, Alley 1, Lane 342
Taipei 114
TW

00-0A-DC (hex) RuggedCom Inc.
000ADC (base 16) RuggedCom Inc.
30 Whitmore Road
Woodbridge Ontario L4L 7Z4

CA

00-0A-E0 (hex) Fujitsu Softek
000AE0 (base 16) Fujitsu Softek
1250 East Arques Ave
Sunnyvale Ca 94085
US

00-0B-03 (hex) Taekwang Industrial Co., Ltd
000B03 (base 16) Taekwang Industrial Co., Ltd
#191-1, Anyang-7Dong, Manan-Gu
Anyang-Si South Korea 430-017
KR

00-0B-01 (hex) DAIICHI ELECTRONICS CO., LTD.
000B01 (base 16) DAIICHI ELECTRONICS CO., LTD.
1-11-13
Hitotsuya Adachi-ku Tokyo 121-8639
JP

00-0A-B9 (hex) Astera Technologies Corp.
000AB9 (base 16) Astera Technologies Corp.
2380 Waverley Street
Palo Alto CA 94301
US

00-0A-A1 (hex) V V S Limited
000AA1 (base 16) V V S Limited
HPIC, 1. Ainslie Road ,
Glasgow Scotland G52 4RU
GB

00-0A-A4 (hex) SHANGHAI
SURVEILLANCE TECHNOLOGY CO,LTD
000AA4 (base 16) SHANGHAI SURVEILLANCE TECHNOLOGY CO,LTD
FL.25A,NO.8 CHANGYANG ROAD
SHANGHAI 200082
CN

00-0A-9E (hex) BroadWeb Corportation
000A9E (base 16) BroadWeb Corportation
3F, 24-1, Industry East Rd., IV,
Hsin-Chu 300
TW

00-0A-BB (hex) Taiwan Secom Co,. Ltd
000ABB (base 16) Taiwan Secom Co,. Ltd
13F, 108, Sec1, Shin-Tai 5th Road

Hsi-Chih Taipei County 221
TW

00-0A-AD (hex) Stargames Corporation
000AAD (base 16) Stargames Corporation
13 Sheridan Close
Milperra NSW 2031
AU

00-0A-B1 (hex) GENETEC Corporation
000AB1 (base 16) GENETEC Corporation
BYGS Shinjyuku Bldg. 5F
Shinjuku-ku Tokyo 162-0022
JP

00-0A-B7 (hex) Cisco Systems, Inc
000AB7 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0B-11 (hex) HIMEJI ABC TRADING CO.,LTD.
000B11 (base 16) HIMEJI ABC TRADING CO.,LTD.
1-8-22
HJMEJI
HYOGO 670-0883
JP

00-0B-05 (hex) Pacific Broadband Networks
000B05 (base 16) Pacific Broadband Networks
Suite 15, Building 3, 195 Wellington Road
Clayton VIC 3168
AU

00-0B-00 (hex) FUJIAN START COMPUTER EQUIPMENT CO.,LTD
000B00 (base 16) FUJIAN START COMPUTER EQUIPMENT CO.,LTD
HONG SHAN YUAN ROAD NO.68 HONGSHAN,GULOU
FUZHOU FUJIAN 350002
CN

00-0B-29 (hex) LS(LG) Industrial Systems co.,Ltd
000B29 (base 16) LS(LG) Industrial Systems co.,Ltd
533 Hogye-dong, Dongan-gu
Anyang-si Gyeonggi-do
KR

00-0B-20 (hex) Hirata corporation
000B20 (base 16) Hirata corporation

111 Hitotsugi, Ueki, Kamoto,
Kumamoto 861-0198
JP

00-0B-22 (hex) Environmental Systems and Services
000B22 (base 16) Environmental Systems and Services
20 Council Street
Hawthorn East Victoria 3123
AU

00-0B-1B (hex) Systronix, Inc.
000B1B (base 16) Systronix, Inc.
939 Edison St.
Salt
Lake City Utah 84111
US

00-0A-88 (hex) InCypher S.A.
000A88 (base 16) InCypher S.A.
18 rue de l'Eau
Luxembourg 1449
LU

00-0A-7C (hex) Tecton Ltd
000A7C (base 16) Tecton Ltd
Fishers Court
Eastleigh Hampshire SO50 7HG
GB

00-0A-6E (hex) Harmonic, Inc
000A6E (base 16) Harmonic, Inc
4300 North First Street
San Jose CA 95134
US

00-0A-6D (hex) EKS Elektronikservice GmbH
000A6D (base 16) EKS Elektronikservice GmbH
Enzstr. 9
Kornwestheim Baden-Württemberg 70806
DE

00-0A-4B (hex) DataPower Technology, Inc.
000A4B (base 16) DataPower Technology, Inc.
One Alewife Center
Cambridge MA 02140
US

00-0A-43 (hex) Chunghwa Telecom Co., Ltd.

000A43 (base 16) Chunghwa Telecom Co., Ltd.
12, Lane 551, Min-Tsu Road
Taoyuan 326
TW

00-0A-45 (hex) Audio-Technica Corp.
000A45 (base 16) Audio-Technica Corp.
Naruse 1,348
Machida Tokyo 194-8566
JP

00-0A-35
(hex) Xilinx
000A35 (base 16) Xilinx
2100 Logic Drive
San Jose CA 94110
US

00-0A-3B (hex) GCT Semiconductor, Inc
000A3B (base 16) GCT Semiconductor, Inc
2121 Ringwood Avenue
San Jose CA 95131
US

00-0A-1E (hex) Red-M Products Limited
000A1E (base 16) Red-M Products Limited
Neptune House
Wooburn Green Buckinghamshire HP10 0HH
GB

00-0A-14 (hex) TECO a.s.
000A14 (base 16) TECO a.s.
Havlickova 260
KOLIN CZ 280 58
CZ

00-0A-0B (hex) Sealevel Systems, Inc.
000A0B (base 16) Sealevel Systems, Inc.
155 Technology Place
Liberty SC 29657
US

00-0A-10 (hex) FAST media integrations AG
000A10 (base 16) FAST media integrations AG
Schöngrund 26
Rotkreuz Canton of Zug 6343
CH

00-0A-74 (hex) Manticom Networks Inc.
000A74 (base 16) Manticom Networks Inc.
14016-C Sullyfield Circle
Chantilly VA 20151
US

00-0A-6F (hex) ZyFLEX Technologies
Inc
000A6F (base 16) ZyFLEX Technologies Inc
2Fl. No. 58 Park Ave. II
S.B.I.P., Hsinchu 30077
TW

00-0A-63 (hex) DHD GmbH
000A63 (base 16) DHD GmbH
Haferkornstrasse 5
Leipzig Sachsen 04129
DE

00-0A-67 (hex) OngCorp
000A67 (base 16) OngCorp
481 Hackensack Ave.
Hackensack NJ 07601
US

00-0A-90 (hex) Bayside Interactive, Inc.
000A90 (base 16) Bayside Interactive, Inc.
330 Biscayne Blvd.
Miami FL 33132
US

00-0A-9D (hex) King Young Technology Co. Ltd.
000A9D (base 16) King Young Technology Co. Ltd.
1Fl., No. 9, Lane 26, Gangchi Rd., Neihu
Taipei 114
TW

00-0A-33 (hex) Emulex Corporation
000A33 (base 16) Emulex Corporation
2021 Opportunity Drive
Roseville CA 95678
US

00-0A-2E (hex) MAPLE NETWORKS CO., LTD
000A2E (base 16) MAPLE NETWORKS CO., LTD
602, Dongwha
SEOUL 156-010
KR

00-0A-2D (hex) Cabot Communications Limited
000A2D
(base 16) Cabot Communications Limited
Verona House
Bristol Gloucestershire BS16 3RY
US

00-0A-25 (hex) CERAGON NETWORKS
000A25 (base 16) CERAGON NETWORKS
24 RAUEL WALLENBERG STREET
TEL-AVIV 96719
IL

00-0A-21 (hex) Integra Telecom Co. Ltd
000A21 (base 16) Integra Telecom Co. Ltd
7th floor Hwayoung Bld. 112-2
Seoul
KR

00-0A-8B (hex) Cisco Systems, Inc
000A8B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-09-FB (hex) Philips Patient Monitoring
0009FB (base 16) Philips Patient Monitoring
Hewlett-Packard-Str.2
Boeblingen 71034
DE

00-09-8F (hex) Cetacean Networks
00098F (base 16) Cetacean Networks
110 Corporate Drive
Portsmouth NH 03801
US

00-09-86 (hex) Metalink LTD.
000986 (base 16) Metalink LTD.
Yakum Business Park
Yakum HOF HASHARON 60972
IL

00-09-87 (hex) NISHI NIPPON ELECTRIC WIRE & CABLE CO.,LTD.
000987
(base 16) NISHI NIPPON ELECTRIC WIRE & CABLE CO.,LTD.
Kasugaura

Oita-City OITA 870-8632
JP

00-09-89 (hex) VividLogic Inc.
000989 (base 16) VividLogic Inc.
40994 Encyclopedia Circle
Fremont CA 94538
US

00-09-8C (hex) Option Wireless Sweden
00098C (base 16) Option Wireless Sweden
Sturegatan 2
Sundbyberg SE-172 24
SE

00-09-85 (hex) Auto Telecom Company
000985 (base 16) Auto Telecom Company
10F, No.3,Lane 16, Sec.2, Sichuan Rd.
Banqiao City Taipei County 22061
TW

00-09-8D (hex) Velocity Semiconductor
00098D (base 16) Velocity Semiconductor
Suite 32 Wey House
Weybridge Surrey KT13 8NA
GB

00-09-81 (hex) Newport Networks
000981 (base 16) Newport Networks
Enterprise House
Chepstow Monmouthshire NP16 5PB
GB

00-09-84 (hex) MyCasa Network Inc.
000984 (base 16) MyCasa Network Inc.
200 Sheridan Ave #103
Palo Alto CA 94306
US

00-09-A3
(hex) Leadfly Techologies Corp. Ltd.
0009A3 (base 16) Leadfly Techologies Corp. Ltd.
9Fl, No.260, Bade Rd.,
Taipei 104
TW

00-09-A5 (hex) HANSUNG ELETRONIC INDUSTRIES DEVELOPMENT CO., LTD
0009A5 (base 16) HANSUNG ELETRONIC INDUSTRIES DEVELOPMENT CO., LTD

HEUNGJIN BLDG 3F, #217-3 POI-DONG, KANGN
SEOUL 135-963
KR

00-09-9A (hex) ELMO COMPANY, LIMITED
00099A (base 16) ELMO COMPANY, LIMITED
6-14, MEIZEN-CHO, MIZUHO-KU
NAGOYA AICHI-Pref. 467-8567
JP

00-09-9C (hex) Naval Research Laboratory
00099C (base 16) Naval Research Laboratory
Code 5592
Washington DC 20375-5000
US

00-09-D7 (hex) DC Security Products
0009D7 (base 16) DC Security Products
One Lindsay Circle
San Francisco California 94124
US

00-09-D8 (hex) Fält Communications AB
0009D8 (base 16) Fält Communications AB
Kylgränd 6a
SE 906 20 Umeå
SE

00-09-DB (hex) eSpace
0009DB (base 16) eSpace
9623
Simsbury Ct.
Twinsburg OH 44087-3220
US

00-09-D5 (hex) Signal Communication, Inc.
0009D5 (base 16) Signal Communication, Inc.
100 Wood Ave South
Iselin NJ 08830
US

00-09-D3 (hex) Western DataCom Co., Inc.
0009D3 (base 16) Western DataCom Co., Inc.
925-D Bassett Rd.
Westlake OH 44145
US

00-09-BC (hex) Utility, Inc

0009BC (base 16) Utility, Inc
250 E Ponce de Leon Ave Suite 700
Decatur GA 30030
US

00-09-BE (hex) Mamiya-OP Co.,Ltd.
0009BE (base 16) Mamiya-OP Co.,Ltd.
3-23-10, Negishi Minami-ku
Saitama-shi Saitama 336-8581
JP

00-09-92 (hex) InterEpoch Technology,INC.
000992 (base 16) InterEpoch Technology,INC.
7F,No.3,Alley 6,Lane 235,Pao-Chiao Rd
Hsin-Tien Taipei Hsien 231
TW

00-09-95 (hex) Castle Technology Ltd
000995 (base 16) Castle Technology Ltd
Ore Trading Estate
Framlingham Suffolk IP13 9LL
GB

00-09-98 (hex) Capinfo Company Limited
000998
(base 16) Capinfo Company Limited
7th Floor A Corporate Square, NO. 35 Fin
Beijing 100032
CN

00-09-F9 (hex) ART JAPAN CO., LTD.
0009F9 (base 16) ART JAPAN CO., LTD.
322-7, Ichinotsubo,
Kawasaki Kanagawa 211-0016
JP

00-09-FD (hex) Ubinetics Limited
0009FD (base 16) Ubinetics Limited
Cambridge Technology Centre
Melbourn Hertfordshire SG8 6DP
GB

00-09-F7 (hex) SED, a division of Calian
0009F7 (base 16) SED, a division of Calian
18 Innnovation Boulevard
Saskatoon Saskatchewan (SK) S7K 3P7
CA

00-09-E6 (hex) Cyber Switching Inc.
0009E6 (base 16) Cyber Switching Inc.
1800 De La Cruz Blvd.
Santa Clara CA 95050
US

00-09-E2 (hex) Sinbon Electronics Co., Ltd.
0009E2 (base 16) Sinbon Electronics Co., Ltd.
4F-13, No. 79, Sec 1, Hsin Tai Wu Rd.
Hsi-Chih, Taipei 221
TW

00-09-DA (hex) Control Module Inc.
0009DA (base 16) Control Module Inc.
227
Brainard Road
Enfield CT 06082
US

00-09-B6 (hex) Cisco Systems, Inc
0009B6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-09-B3 (hex) MCM Systems Ltd
0009B3 (base 16) MCM Systems Ltd
Kolomban 9F
Ankaran Slovenija 6280
SI

00-09-4A (hex) Homenet Communications
00094A (base 16) Homenet Communications
Innovation Centre
Limerick
IE

00-09-4B (hex) FillFactory NV
00094B (base 16) FillFactory NV
Schalienhoevedreef 20B
B-2800 Mechelen
BE

00-09-4D (hex) Braintree Communications Pty Ltd
00094D (base 16) Braintree Communications Pty Ltd
Unit 3
Slacks Creek QLD 4127
AU

00-09-50 (hex) Independent Storage Corporation
000950 (base 16) Independent Storage Corporation
6273 Monarch Park Place
Niwot Colorado 80503
US

00-09-54 (hex) AMiT spol. s. r. o.
000954 (base 16) AMiT spol. s. r. o.
Naskove 3
150 00 Praha
5
CZ

00-09-52 (hex) Auerswald GmbH & Co. KG
000952 (base 16) Auerswald GmbH & Co. KG
Vor den Grashoefen 1
Cremlingen Niedersachsen 38162
DE

00-09-44 (hex) Cisco Systems, Inc
000944 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-09-2C (hex) Hitpoint Inc.
00092C (base 16) Hitpoint Inc.
No.7, Fenliao, 2nd Industrial Park, Link
Taipei 244
TW

00-09-2B (hex) iQstor Networks, Inc.
00092B (base 16) iQstor Networks, Inc.
2001 Corporate Center Drive
Newbury Park CA 91320
US

00-09-26 (hex) YODA COMMUNICATIONS, INC.
000926 (base 16) YODA COMMUNICATIONS, INC.
2F, No.3-1, Industry East Road IX,
Hsinchu 300
TW

00-09-27 (hex) TOYOKEIKI CO.,LTD.
000927 (base 16) TOYOKEIKI CO.,LTD.
17-10-3,Shimosinjyo
Osaka 533-0021

JP

00-09-23 (hex) Heaman System Co., Ltd
000923 (base 16) Heaman System Co., Ltd
Building M6,National Hi-tech
& Indus
Changsha Hunan Province 410013
US

00-09-1D (hex) Proteam Computer Corporation
00091D (base 16) Proteam Computer Corporation
7F, No. 157. Section 2 Ta-Tung Rd
Hsi-Chih Taipei Hsien 221
US

00-09-5C (hex) Philips Medical Systems - Cardiac and Monitoring Systems (CM
00095C (base 16) Philips Medical Systems - Cardiac and Monitoring Systems (CM
3000 Minuteman Road
Andover Massachusetts 01810
US

00-09-58 (hex) INTELNET S.A.
000958 (base 16) INTELNET S.A.
FRANCISCO OLIVAN BAYLE, 4
ZARAGOZA 50015
ES

00-09-55 (hex) Young Generation International Corp.
000955 (base 16) Young Generation International Corp.
4F.,No. 188, Minchuan Rd., Shindian City
Shindian 231
TW

00-09-09 (hex) Telenor Connect A/S
000909 (base 16) Telenor Connect A/S
Ellegaardvej 25L
Sønderborg Als 6400
DK

00-09-0A (hex) SnedFar Technology Co., Ltd.
00090A (base 16) SnedFar Technology
Co., Ltd.
15FL., No.866-2, Jung Jeng Rd.,
Junghe Taipei 235
TW

00-09-03 (hex) Panasas, Inc
000903 (base 16) Panasas, Inc

15333 John F Kennedy Blvd, Suite 400
Houston TX 77032-2351
US

00-09-07 (hex) Chrysalis Development
000907 (base 16) Chrysalis Development
8125 River Dr. Suite 100
Morton Grove IL 60053
US

00-09-06 (hex) Esteem Networks
000906 (base 16) Esteem Networks
4F, No.900, Yishan Road
Shanghai 200233
CN

00-08-FB (hex) SonoSite, Inc.
0008FB (base 16) SonoSite, Inc.
21919 30th Drive SE
Bothell WA 98021
US

00-09-62 (hex) Sonitor Technologies AS
000962 (base 16) Sonitor Technologies AS
Forskningsveien 1B
Oslo Blindern N-0134
NO

00-09-5D (hex) Dialogue Technology Corp.
00095D (base 16) Dialogue Technology Corp.
10F, No. 196, Sec. 2, Jungshing Rd.
Shindian City Taipei 231
TW

00-09-17 (hex) WEM Technology Inc
000917 (base 16) WEM
Technology Inc
8F-2, No 386, Sec 5 Nanjing East Road.
Taipei 105
TW

00-08-7E (hex) Bon Electro-Telecom Inc.
00087E (base 16) Bon Electro-Telecom Inc.
Gayang 1st Factory 701, 14-81
Seoul 157-808
KR

00-08-80 (hex) BroadTel Canada Communications inc.

000880 (base 16) BroadTel Canada Communications inc.
3700 Griffith, Suite 389
Saint-Laurent Quebec H4T 2B3
CA

00-08-6D (hex) Missouri FreeNet
00086D (base 16) Missouri FreeNet
PO Box 771026
St. Louis Missouri 63177-1026
US

00-08-6A (hex) Securiton Gmbh
00086A (base 16) Securiton Gmbh
Von-Drais-Strasse 33
Achern D-77855
DE

00-08-D4 (hex) IneoQuest Technologies, Inc
0008D4 (base 16) IneoQuest Technologies, Inc
1931 Washington St
Canton Massachusetts 02021
US

00-08-D6 (hex) HASSNET Inc.
0008D6 (base 16) HASSNET Inc.
2F Missy2000 B/D 725, SooSeo-Dong,
Seoul 135-757
KR

00-08-CE (hex) IPMobileNet
Inc.
0008CE (base 16) IPMobileNet Inc.
11909 E Telegraph Rd.
Santa Fe Springs CA 90670
US

00-08-C2 (hex) Cisco Systems, Inc
0008C2 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-08-C0 (hex) ASA SYSTEMS
0008C0 (base 16) ASA SYSTEMS
S245 Korea Maritime University, 1 Dongsa
Busan Busan Metropolitan City 606-791
KR

00-08-81 (hex) DIGITAL HANDS CO.,LTD.
000881 (base 16) DIGITAL HANDS CO.,LTD.
KAKiYA Building 2F
Yokohama Kanagawa 222-0033
JP

00-08-82 (hex) SIGMA CORPORATION
000882 (base 16) SIGMA CORPORATION
2-3-15 Iwato-minami
Komae-shi Tokyo 201-8630
JP

00-08-73 (hex) DapTechnology B.V.
000873 (base 16) DapTechnology B.V.
Zutphenstraat 67
EJ Oldenzaal 7575
NL

00-08-7A (hex) Wipotec GmbH
00087A (base 16) Wipotec GmbH
Adam-Hoffman Str. 26

DE

00-08-71 (hex) NORTHDATA Co., Ltd.
000871 (base
16) NORTHDATA Co., Ltd.
#302 KayangTechno-Town 1487
Kangseo-Gu Seoul 157-810
KR

00-08-B2 (hex) SHENZHEN COMPASS TECHNOLOGY DEVELOPMENT CO.,LTD
0008B2 (base 16) SHENZHEN COMPASS TECHNOLOGY DEVELOPMENT CO.,LTD
4th Floor,Building 205,TaiRan Industry
Shenzhen GUANGDONG 518040
CN

00-08-B1 (hex) ProQuent Systems
0008B1 (base 16) ProQuent Systems
67 Forest Street
Marlboro MA 01752
US

00-08-AF (hex) Novatec Corporation
0008AF (base 16) Novatec Corporation
2-19-2 Nishi-Gotanda
Shinagawa-ku Tokyo 141-0031
JP

00-08-A6 (hex) Multiware & Image Co., Ltd.
0008A6 (base 16) Multiware & Image Co., Ltd.
Saedong Bldg. 65-25,
Pusan 606-032
KR

00-08-EE (hex) Logic Product Development
0008EE (base 16) Logic Product Development
411 Washington Ave N. Suite 101
Minneapolis Minnesota 55401
US

00-08-EB (hex) ROMWin Co.,Ltd.
0008EB (base 16) ROMWin Co.,Ltd.
406 OmiyaOhtaka
Bldg. 1-103
Saitama 330-0843
US

00-08-E8 (hex) Excel Master Ltd.
0008E8 (base 16) Excel Master Ltd.
Room D, 3/F., Yeung Yiu Chung (No. 8) Ind. Bldg.
Kowloon Bay
HK

00-08-DC (hex) Wiznet
0008DC (base 16) Wiznet
5F Simmtech bldg., 228-3,
Seoul 135-830
KR

00-08-63 (hex) Entrisphere Inc.
000863 (base 16) Entrisphere Inc.
1601 S. De Anza Blvd.
Cupertino CA 95014
US

00-08-66 (hex) DSX Access Systems, Inc.
000866 (base 16) DSX Access Systems, Inc.
10731 Rockwall Rd.
Dallas TX 75238
US

00-08-5F (hex) Picanol N.V.
00085F (base 16) Picanol N.V.
Polenlaan 3-7

BE

00-08-52 (hex) Davolink Co. Inc.
000852 (base 16) Davolink Co. Inc.
Room-604, Kumhwa Plaza,
Kyunggi-Do 435-040
KR

00-08-A3 (hex) Cisco Systems, Inc
0008A3 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-08-9E (hex) Beijing Enter-Net
co.LTD
00089E (base 16) Beijing Enter-Net co.LTD
NO 1 courtyard,
Beijing 100085
US

00-08-8E (hex) Nihon Computer Co., Ltd.
00088E (base 16) Nihon Computer Co., Ltd.
36-8 Higashitamachi
Hamamatsu Shizuoka 430-0915
JP

00-08-DD (hex) Telena Communications, Inc.
0008DD (base 16) Telena Communications, Inc.
6725 Mesa Ridge Road
San Diego CA 92121
US

00-08-E1 (hex) Barix AG
0008E1 (base 16) Barix AG
Seefeld Strasse 303
Zürich ZH 8008
US

00-08-DA (hex) SofaWare Technologies Ltd.
0008DA (base 16) SofaWare Technologies Ltd.
3 Hilazon St.
Ramat-Gan 52522
IL

00-08-B4 (hex) SYSPOL
0008B4 (base 16) SYSPOL
4th Fl,SYSPOL B/D, Bangbae 4 Dong, Seoch

Seoul 137-064
US

00-08-B3 (hex) Fastwel
0008B3 (base 16) Fastwel
Profsoyuznaya 108,
Moscow 117313
RU

00-07-DD (hex) Cradle Technologies
0007DD (base 16) Cradle Technologies
3130 West
Warren Ave.
Fremont CA 94538
US

00-07-D5 (hex) 3e Technologies Int;., Inc.
0007D5 (base 16) 3e Technologies Int;., Inc.
15800 Crabbs Branch Way
Rockville MD 20855
US

00-07-DB (hex) Kirana Networks, Inc.
0007DB (base 16) Kirana Networks, Inc.
331 Newman Springs Road
Red Bank NJ 07701
US

00-07-D1 (hex) Spectrum Signal Processing Inc.
0007D1 (base 16) Spectrum Signal Processing Inc.
#200-2700 Production Way

CA

00-07-B4 (hex) Cisco Systems, Inc
0007B4 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-07-EF (hex) Lockheed Martin Tactical Systems
0007EF (base 16) Lockheed Martin Tactical Systems
3333 Pilot Knob Road
Eagan MN 55121
US

00-07-F4 (hex) Eletex Co., Ltd.
0007F4 (base 16) Eletex Co., Ltd.

8-2-56 Nankou-Higashi Suminoe-ku

JP

00-07-B3 (hex) Cisco Systems, Inc
0007B3 (base 16) Cisco Systems, Inc
80
West Tasman Drive
San Jose CA 94568
US

00-07-B5 (hex) Any One Wireless Ltd.
0007B5 (base 16) Any One Wireless Ltd.
Namseoul Bd., 8F, 1304-3
Seoul
KR

00-07-A2 (hex) Opteon Corporation
0007A2 (base 16) Opteon Corporation
70 Hastings Street
Wellesley MA 02481
US

00-07-B9 (hex) Ginganet Corporation
0007B9 (base 16) Ginganet Corporation
Kintetsu Shin Namba Building
Osaka Shi 1556-0017
JP

00-04-7F (hex) Chr. Mayr GmbH & Co. KG
00047F (base 16) Chr. Mayr GmbH & Co. KG
Eichenstraße 1

DE

00-04-7B (hex) Schlumberger
00047B (base 16) Schlumberger
Sugar Land Product Center
Sugar Land TX 77478
US

00-08-0C (hex) VDA Group S.p.a.
00080C (base 16) VDA Group S.p.a.
Viale Lino Zanussi 3
Pordenone Pordenone 33170
IT

00-08-04 (hex) ICA Inc.

000804 (base 16) ICA Inc.
542-1 Noguki

JP

00-07-FF (hex) Gluon Networks
0007FF
(base 16) Gluon Networks
5401 Old Redwood Hwy.
Petaluma CA 94954
US

00-08-29 (hex) TOKYO ELECTRON DEVICE NAGASAKI LIMITED
000829 (base 16) TOKYO ELECTRON DEVICE NAGASAKI LIMITED
6-42 Tsukuba-machi, Isahaya-shi
Nagasaki Kyushu 854-0065
JP

00-08-1B (hex) Windigo Systems
00081B (base 16) Windigo Systems
2210 O'Toole Ave. #200
San Jose CA 95131
US

00-08-57 (hex) Polaris Networks, Inc.
000857 (base 16) Polaris Networks, Inc.
6810 Santa Teresa Blvd.
San Jose CA 95119
US

00-07-F7 (hex) Galtronics
0007F7 (base 16) Galtronics
4645 East Cotton Center Blvd.
Phoenix AZ 85040
US

00-07-4B (hex) Daihen Corporation
00074B (base 16) Daihen Corporation
2-1-11 Tagawa Yodogawa-ku

JP

00-07-4A (hex) Carl Valentin GmbH
00074A (base 16) Carl Valentin GmbH
Neckarstrabe 78-80

DE

00-07-3C (hex) Telecom Design
00073C (base 16) Telecom Design
Voie
Romaine, Zone de Remora

FR

00-07-36 (hex) Data Video Technologies Co., Ltd.
000736 (base 16) Data Video Technologies Co., Ltd.
7F, No. 352, Sec. 2
Taipei Hsien
TW

00-07-8B (hex) Wegener Communications, Inc.
00078B (base 16) Wegener Communications, Inc.
11350 Technology Circle
Duluth GA 30097
US

00-07-83 (hex) SynCom Network, Inc.
000783 (base 16) SynCom Network, Inc.
4F, No. 31, Hsintai Road, Chupei City,

TW

00-07-89 (hex) Allradio Co., Ltd
000789 (base 16) Allradio Co., Ltd
76, Deokcheon-ro 34beon-gil, Manan-gu
Anyang-si,Gyeonggi-do Republic of Korea 430-803
KR

00-07-87 (hex) Idea System Co., Ltd.
000787 (base 16) Idea System Co., Ltd.
4-1-21 Shinmei-cho Okaya-shi

JP

00-07-85 (hex) Cisco Systems, Inc
000785 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-07-55 (hex) Lafon
000755 (base 16) Lafon
44
Avenue Victor Meunier
Bassens 33530

FR

00-07-59 (hex) Boris Manufacturing Corp.
000759 (base 16) Boris Manufacturing Corp.
PO Box 601
Castle Point NY 12511
US

00-07-51 (hex) m-u-t AG
000751 (base 16) m-u-t AG
Messgeräte für Medizin- und Umwelttechnik
Wedel 22880
DE

00-07-50 (hex) Cisco Systems, Inc
000750 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-07-42 (hex) Ormazabal
000742 (base 16) Ormazabal
Parque Tecnologico 104
48170 Zamudio, Bizkaia
ES

00-07-38 (hex) Young Technology Co., Ltd.
000738 (base 16) Young Technology Co., Ltd.
D-604, Sigma-II Officetel,
Sungnam-si, Kyeonggi-do 763-741
KR

00-07-29 (hex) Kistler Instrumente AG
000729 (base 16) Kistler Instrumente AG
Eulachstrasse 22

CH

00-07-2A (hex) Innovance Networks
00072A (base 16) Innovance Networks
19 Fairmont Avenue

CA

00-07-75 (hex) Valence Semiconductor, Inc.
000775 (base 16) Valence Semiconductor, Inc.
41 Discovery

Irvine CA 92618
US

00-07-7F (hex) J Communications Co., Ltd.
00077F (base 16) J Communications Co., Ltd.
124-4 Ojeon-Dong, Ulwang-City

KR

00-07-71 (hex) Embedded System Corporation
000771 (base 16) Embedded System Corporation
13-5, Takadanobaba 3-chome,

JP

00-07-70 (hex) Ubiquoss Inc
000770 (base 16) Ubiquoss Inc
Ubiquoss B/D, 68, Pangyo-ro 255beon-gil,

KR

00-07-0D (hex) Cisco Systems, Inc
00070D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-07-0E (hex) Cisco Systems, Inc
00070E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-07-0B (hex) Novabase SGPS, SA
00070B (base 16) Novabase SGPS, SA
Av. D Joao II, Lote 1.03.2.3
Lisboa 1998-031
PT

00-07-10 (hex) Adax,
Inc.
000710 (base 16) Adax, Inc.
614 Bancroft Way
Berkeley CA 94556
US

00-07-64 (hex) YoungWoo Telecom Co. Ltd.
000764 (base 16) YoungWoo Telecom Co. Ltd.

3F, Sehwa B/D, 355-1
Sungnam-Si Kyungki-Do
KR

00-07-66 (hex) Chou Chin Industrial Co., Ltd.
000766 (base 16) Chou Chin Industrial Co., Ltd.
9F, #35, Chiau An St. Chung Ho City,

TW

00-07-61 (hex) 29530
000761 (base 16) 29530
EPFL - Quartier de l'Innovation
Lausanne CH 1015
CH

00-07-93 (hex) Shin Satellite Public Company Limited
000793 (base 16) Shin Satellite Public Company Limited
41/103 Rattanathibet Road,

TH

00-07-96 (hex) LSI Systems, Inc.
000796 (base 16) LSI Systems, Inc.
10-1 Minami-kurokawa,
Kanagawa 215-0034
JP

00-07-19 (hex) Mobiis Co., Ltd.
000719 (base 16) Mobiis Co., Ltd.
277-1, Shinhwa Bldg. 4F
Seoul,
KR

00-06-C4 (hex) Piolink Inc.
0006C4
(base 16) Piolink Inc.
IT Castle 1-401, 550-1 Gasan-dong,
Seoul 153-803
KR

00-06-B5 (hex) Source Photonics, Inc.
0006B5 (base 16) Source Photonics, Inc.
20550 Nordhoff St.
Chatsworth CA 91311
US

00-06-A5 (hex) PINON Corp.

0006A5 (base 16) PINON Corp.
Axis Gotanda Bldg.7F-701
Tokyo 141-0031
JP

00-06-9D (hex) Petards Ltd
00069D (base 16) Petards Ltd
390 Princesway, Team Valley
Gateshead Tyne and Wear NE11 OTU
GB

00-06-F8 (hex) The Boeing Company
0006F8 (base 16) The Boeing Company
5731 W. Las Positas Blvd.
Pleasanton CA 94588
US

00-06-FB (hex) Hitachi Printing Solutions, Ltd.
0006FB (base 16) Hitachi Printing Solutions, Ltd.
1060, Takeda Hitachinaka-City
312-8502
JP

00-06-FC (hex) Fnet Co., Ltd.
0006FC (base 16) Fnet Co., Ltd.
KFSB Bldg. 10th F. 16-2
Seoul
KR

00-06-F4 (hex) Prime Electronics & Satellitics Inc.
0006F4 (base
16) Prime Electronics & Satellitics Inc.
69,Tung-Yuan Rd
Chung-Li City Tao-Yuan County 32000
TW

00-06-EE (hex) Shenyang Neu-era Information & Technology Stock Co., Ltd
0006EE (base 16) Shenyang Neu-era Information & Technology Stock Co., Ltd
8/F, the 21st Century Building,
Dvlpmnt Zone Shenyang,
CN

00-06-E8 (hex) Optical Network Testing, Inc.
0006E8 (base 16) Optical Network Testing, Inc.
55 Merchant St.
Honolulu HI 96813
US

00-06-BF (hex) Accella Technologies Co., Ltd.
0006BF (base 16) Accella Technologies Co., Ltd.
Rm 512 No. 680 Gui Ping Rd.
Shanghai 200233
CN

00-06-BA (hex) Westwave Communications
0006BA (base 16) Westwave Communications
463 Aviation Blvd.
Santa Rosa CA 95403
US

00-06-BE (hex) Baumer Optronic GmbH
0006BE (base 16) Baumer Optronic GmbH
Badstraße 30

DE

00-06-DA (hex) ITRAN Communications Ltd.
0006DA (base 16) ITRAN Communications
Ltd.
1 Azrieli Center,
Tel Aviv 67021 67021
IL

00-06-D0 (hex) Elgar Electronics Corp.
0006D0 (base 16) Elgar Electronics Corp.
9250 Brown Deer Rd.
San Diego CA 92121
US

00-06-CC (hex) JMI Electronics Co., Ltd.
0006CC (base 16) JMI Electronics Co., Ltd.
Nanyang B/D 3F, 25-4
Seoul 140-080
KR

00-06-E2 (hex) Ceemax Technology Co., Ltd.
0006E2 (base 16) Ceemax Technology Co., Ltd.
5f-7, 736, Chung Cheng Rd.,

TW

00-06-E1 (hex) Techno Trade s.a
0006E1 (base 16) Techno Trade s.a
732a Chaussee de Bruxelles

BE

00-06-90 (hex) Euracom Communication GmbH
000690 (base 16) Euracom Communication GmbH
Franklinstraße 14

DE

00-06-A8 (hex) KC Technology, Inc.
0006A8 (base 16) KC Technology, Inc.
1900 McCarthy Blvd.
Milpitas CA 95035
US

00-06-A0 (hex) Mx Imaging
0006A0 (base 16) Mx Imaging
2894 Columbia Street
Torrance CA
90503
US

00-06-7E (hex) WinCom Systems, Inc.
00067E (base 16) WinCom Systems, Inc.
10900 World Trade Blvd.
Morrisville NC 27560
US

00-06-30 (hex) Adtranz Sweden
000630 (base 16) Adtranz Sweden
Dept. TCC/TH

SE

00-06-37 (hex) Toptrend-Meta Information (ShenZhen) Inc.
000637 (base 16) Toptrend-Meta Information (ShenZhen) Inc.
2/F, Bldg. 3, Section A, Nor-East Zone

CN

00-06-2E (hex) Aristos Logic Corp.
00062E (base 16) Aristos Logic Corp.
27051 Towne Centre Dr.
Foothill Ranch CA 92610
US

00-06-25 (hex) The Linksys Group, Inc.
000625 (base 16) The Linksys Group, Inc.
17401 Armstrong Ave.
Irvine CA 92614

US

00-06-27 (hex) Uniwide Technologies, Inc.
000627 (base 16) Uniwide Technologies, Inc.
Korea Development Bank B/D 5th Flr
Taejon 302-122,
KR

00-06-24 (hex) Gentner Communications Corp.
000624 (base 16) Gentner Communications Corp.
1825
Research Way
Salt Lake City UT 84119
US

00-06-2C (hex) Bivio Networks
00062C (base 16) Bivio Networks
4457 Willow Road,
Pleasanton CA 94588
US

00-06-60 (hex) NADEX Co., Ltd.
000660 (base 16) NADEX Co., Ltd.
1 Omiyamae, Tokushige,
Aichi 481-0038
JP

00-06-4E (hex) Broad Net Technology Inc.
00064E (base 16) Broad Net Technology Inc.
5F, No.58, Lane 188, Rui Kuang Road

TW

00-06-2D (hex) TouchStar Technologies, L.L.C.
00062D (base 16) TouchStar Technologies, L.L.C.
5147 South Garnett Road
Tulsa OK 74146
US

00-06-46 (hex) ShenZhen XunBao Network Technology Co Ltd
000646 (base 16) ShenZhen XunBao Network Technology Co Ltd
F3, R2-A Building, South District
Shen Zhen
CN

00-06-4B (hex) Alexon Co., Ltd.
00064B (base 16) Alexon Co., Ltd.
3-207-1 Teramoto,

JP

00-05-FD (hex) PacketLight Networks Ltd.
0005FD (base 16) PacketLight
Networks Ltd.
27 Habarzel St.
Tel-Aviv 69710
IL

00-05-E4 (hex) Red Lion Controls Inc.
0005E4 (base 16) Red Lion Controls Inc.
20 Willow Springs Circle
York PA 17402
US

00-05-F2 (hex) Power R, Inc.
0005F2 (base 16) Power R, Inc.
756 Aloha St.
Seattle WA 98109
US

00-05-F3 (hex) Webyn
0005F3 (base 16) Webyn
26 Rue Oes Gaudines

FR

00-06-01 (hex) Otanikeiki Co., Ltd.
000601 (base 16) Otanikeiki Co., Ltd.
2-10-23 Hikari-Machi
732-0052
JP

00-05-DF (hex) Electronic Innovation, Inc.
0005DF (base 16) Electronic Innovation, Inc.
12731 Cannington Way SW
Calgary, AB T2W 1Z7
CA

00-05-E0 (hex) Empirix Corp.
0005E0 (base 16) Empirix Corp.
205 Lowell St.
Wilmington MA 01887
US

00-06-21 (hex) Hinox, Co., Ltd.
000621 (base 16) Hinox, Co., Ltd.

15-7 3-chome, Sennin-cho,
193-0835
JP

00-06-1C (hex) Hoshino Metal Industries,
Ltd.
00061C (base 16) Hoshino Metal Industries, Ltd.
645 Yamanokami, Yabutsuka,
379-2302
JP

00-06-23 (hex) MGE UPS Systems France
000623 (base 16) MGE UPS Systems France
140 Avenue Jean Kuntzmann

FR

00-06-0B (hex) Artesyn Embedded Technologies
00060B (base 16) Artesyn Embedded Technologies
2900 S. Diablo Way Suite 190
Tempe AZ 85282
US

00-06-05 (hex) Inncom International, Inc.
000605 (base 16) Inncom International, Inc.
P.O. Box 1060
Old Lyme CT 06371
US

00-05-FA (hex) IPOptical, Inc.
0005FA (base 16) IPOptical, Inc.
45940 Horseshoe Drive
Dulles VA 20166
US

00-05-E5 (hex) Renishaw PLC
0005E5 (base 16) Renishaw PLC
New Mills, Wotton-under-Edge

GB

00-05-F5 (hex) Geospace Technologies
0005F5 (base 16) Geospace Technologies
7007 Pinemont
Houston TX 77040
US

00-06-6C (hex) Robinson Corporation

00066C (base 16) Robinson
Corporation
12F, No. 278 Ho Ping E. Rd.,
Taipei
TW

00-06-66 (hex) Roving Networks
000666 (base 16) Roving Networks
809 University Avenue
Los Gatos CA 95032
US

00-06-67 (hex) Tripp Lite
000667 (base 16) Tripp Lite
1111 W. 35th Street
Chicago IL 60609
US

00-06-15 (hex) Kimoto Electric Co., Ltd.
000615 (base 16) Kimoto Electric Co., Ltd.
3-1 Funahashi-Cho,
543-0024
JP

00-06-0A (hex) Blue2space
00060A (base 16) Blue2space
Arstaangsv. 9

SE

00-06-3C (hex) Intrinsyc Software International Inc.
00063C (base 16) Intrinsyc Software International Inc.
885 Dunsmuir Street, Suite 380
Vancouver B.C. V6C 1N5
CA

00-06-77 (hex) SICK AG
000677 (base 16) SICK AG
Erwin-Sick Str.1
Waldkirch D-79183
DE

00-06-79 (hex) Konami Corporation
000679 (base 16) Konami Corporation
11-14-5 Akasaka, Minato-ku,

JP

00-05-66 (hex) Secui.com
Corporation
000566 (base 16) Secui.com Corporation
17th Fl. Samsung Yeoksam Bldg.
Seoul 135-080
KR

00-05-6C (hex) Hung Chang Co., Ltd.
00056C (base 16) Hung Chang Co., Ltd.
1385-14, Juan-Dong,

KR

00-05-5F (hex) Cisco Systems, Inc
00055F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-05-5D (hex) D-LINK SYSTEMS, INC.
00055D (base 16) D-LINK SYSTEMS, INC.
53 Discover Dr.
Irvine CA 92618
US

00-05-61 (hex) nac Image Technology, Inc.
000561 (base 16) nac Image Technology, Inc.
8-7 Sanban-cho, Chiyoda-ku,

JP

00-05-63 (hex) J-Works, Inc.
000563 (base 16) J-Works, Inc.
12328 Gladstone St. #1
Sylmor CA 91342
US

00-05-57 (hex) Agile TV Corporation
000557 (base 16) Agile TV Corporation
333 Ravenswood Ave.,
Menlo Park CA 94025
US

00-05-5B (hex) Charles Industries, Ltd.
00055B (base 16) Charles
Industries, Ltd.
5600 Apollo Dr.
Rolling Meadows IL 60008

US

00-05-54 (hex) Rangestar Wireless
000554 (base 16) Rangestar Wireless
9565 Soquel Drive, Suite 100
Aptos CA 95003
US

00-05-53 (hex) DVC Company, Inc.
000553 (base 16) DVC Company, Inc.
10200 Hwy 290 W.
Austin TX 78236
US

00-05-4B (hex) Eaton Automation AG
00054B (base 16) Eaton Automation AG
Spinnereistrasse 8
St.Gallen 9008
CH

00-05-83 (hex) ImageCom Limited
000583 (base 16) ImageCom Limited
Cedars Park, Cedars Road,
SL6 1RZ
GB

00-05-6F (hex) Innomedia Technologies Pvt. Ltd.
00056F (base 16) Innomedia Technologies Pvt. Ltd.
#3278, 12th Main Road

IN

00-05-74 (hex) Cisco Systems, Inc
000574 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-05-67 (hex) Etymonic Design, Inc.
000567 (base 16) Etymonic Design, Inc.
41 Byron Avenue

NOL 1GO
CA

00-05-65 (hex) Tailyn Communication Company Ltd.
000565 (base 16) Tailyn Communication Company Ltd.
No. 62, Lane 205, Nan-San Road,

Taoyuan Hsien
TW

00-05-CE (hex) Prolink Microsystems Corporation
0005CE (base 16) Prolink Microsystems Corporation
6F, No. 349, Yang-Kuang St.
Nei-Hu Taipei,
TW

00-05-C2 (hex) Soronti, Inc.
0005C2 (base 16) Soronti, Inc.
12159 Business Park Dr, suite 140
Draper Utah 84020
US

00-05-7C (hex) RCO Security AB
00057C (base 16) RCO Security AB
Box 705

SE

00-05-D8 (hex) Arescom, Inc.
0005D8 (base 16) Arescom, Inc.
3541 Gateway Blvd.
Fremont CA 94538
US

00-05-DE (hex) Gi Fone Korea, Inc.
0005DE (base 16) Gi Fone Korea, Inc.
Twin Bldg. 4th Fl,
Seoul,
KR

00-05-C4 (hex) Telect, Inc.
0005C4 (base 16) Telect, Inc.
2111 N. Molter Road
Liberty Lake WA 99019
US

00-05-D4 (hex) FutureSmart
Networks, Inc.
0005D4 (base 16) FutureSmart Networks, Inc.
6155 Almaden Expressway
San Jose CA 95120
US

00-05-8E (hex) Flextronics International GmbH & Co. Nfg. KG
00058E (base 16) Flextronics International GmbH & Co. Nfg. KG

Schrackgasse 9-15
Kindberg 8650
AT

00-05-94 (hex) HMS Industrial Networks
000594 (base 16) HMS Industrial Networks
PO Box 4126
SE30004 SE
SE

00-05-9D (hex) Daniel Computing Systems, Inc.
00059D (base 16) Daniel Computing Systems, Inc.
3208 8th Avenue NE #118
T2A 7V8
CA

00-05-A4 (hex) Lucid Voice Ltd.
0005A4 (base 16) Lucid Voice Ltd.
5 Jabotinski Street

IL

00-05-B3 (hex) Asahi-Engineering Co., Ltd.
0005B3 (base 16) Asahi-Engineering Co., Ltd.
3-6-12-2 Gakuenhigashi-cho
Tokyo 187-0043
JP

00-05-A5 (hex) KOTT
0005A5 (base 16) KOTT
Suite 305 Daeha B/D
135-080
KR

00-05-A3 (hex) QEI, Inc.
0005A3
(base 16) QEI, Inc.
60 Fadem Road
Springfield NJ 07081
US

00-05-9E (hex) Zinwell Corporation
00059E (base 16) Zinwell Corporation
7F, No.512, Yuan-Shan Road

TW

00-04-F6 (hex) Amphus

0004F6 (base 16) Amphus
2372 Qume Drive, #F
San Jose CA 95131
US

00-04-F4 (hex) Infinite Electronics Inc.
0004F4 (base 16) Infinite Electronics Inc.
No.478-1, Sec 2

TW

00-04-F1 (hex) WhereNet
0004F1 (base 16) WhereNet
107 W. McKinney Avenue
Rogersville TN 37857
US

00-05-37 (hex) Nets Technology Co., Ltd.
000537 (base 16) Nets Technology Co., Ltd.
#B1 YungJun Bldg.
Seoul 135-090 135-090
KR

00-05-32 (hex) Cisco Systems, Inc
000532 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-05-36 (hex) Danam Communications, Inc.
000536 (base 16) Danam Communications, Inc.
900-3, Hokye-dong, Dongan-gu,

KR

00-05-21
(hex) Control Microsystems
000521 (base 16) Control Microsystems
48 Steacie Drive
Ottawa Ontario K2K 2A9
CA

00-05-1F (hex) Taijin Media Co., Ltd.
00051F (base 16) Taijin Media Co., Ltd.
640-8 Tungchon-Dong
Seoul 157-030
KR

00-05-23 (hex) AVL List GmbH
000523 (base 16) AVL List GmbH
Hans List Platz 1
Graz 8020
AT

00-04-EC (hex) Memobox SA
0004EC (base 16) Memobox SA
1, Place Dame Suzanne

FR

00-04-E4 (hex) Daeryung Ind., Inc.
0004E4 (base 16) Daeryung Ind., Inc.
#219-6, Kasan Dong,
Seoul Seoul KOREA
KR

00-04-E2 (hex) SMC Networks, Inc.
0004E2 (base 16) SMC Networks, Inc.
6 Hughes
Irvine CA 92618
US

00-05-0C (hex) Network Photonics, Inc.
00050C (base 16) Network Photonics, Inc.
451 Aviation Boulevard
Santa Rosa CA 95403
US

00-05-11 (hex) Complementary Technologies Ltd
000511 (base 16) Complementary Technologies Ltd
Comtech
House, 28 Manchester Road
BL5 3QJ
GB

00-05-06 (hex) Reddo Networks AB
000506 (base 16) Reddo Networks AB
Livdjursgatan 4

SE

00-05-0A (hex) ICS Spa
00050A (base 16) ICS Spa
Via Romano AL

IT

00-05-42 (hex) Otari, Inc.
000542 (base 16) Otari, Inc.
4-33-3 Kokuryo-cho,

JP

00-05-26 (hex) IPAS GmbH
000526 (base 16) IPAS GmbH
Hölscherstr. 27

DE

00-04-2F (hex) International Communications Products, Inc.
00042F (base 16) International Communications Products, Inc.
4325 Woodland Park Drive
West Melbourne FL 32904
US

00-04-29 (hex) Pixord Corporation
000429 (base 16) Pixord Corporation
6F, No. 12, Innovation 1st Rd.,
TAIWAN TAIWAN R.O.C.
TW

00-04-26 (hex) Autosys
000426 (base 16) Autosys
202 Ilsinpastel,
Seoul Seoul KOREA
KR

00-04-21 (hex) Ocular Networks
000421 (base 16) Ocular Networks
12700,
Fair Lakes Circle
Fairfax VA 22033
US

00-04-24 (hex) TMC s.r.l.
000424 (base 16) TMC s.r.l.
202 Via A. Costa

IT

00-04-1D (hex) Corega of America
00041D (base 16) Corega of America
P.O. Box 159
Bothell WA 98041-0159

US

00-04-1A (hex) Ines Test and Measurement GmbH & CoKG
00041A (base 16) Ines Test and Measurement GmbH & CoKG
An der Mühlenaue 5
Bad Nenndorf 31542
DE

00-04-1E (hex) Shikoku Instrumentation Co., Ltd.
00041E (base 16) Shikoku Instrumentation Co., Ltd.
777, Oosachou, Zentsuujishi,

JP

00-04-CB (hex) Tdsoft Communication, Ltd.
0004CB (base 16) Tdsoft Communication, Ltd.
60 Medinat Hayehudim St.

IL

00-04-CC (hex) Peek Traffic B.V.
0004CC (base 16) Peek Traffic B.V.
Postbus 2542
The
NL

00-04-C8 (hex) LIBA Maschinenfabrik GmbH
0004C8 (base 16) LIBA Maschinenfabrik GmbH
PO Box 1120

DE

00-04-BF
(hex) VersaLogic Corp.
0004BF (base 16) VersaLogic Corp.
12100 SW Tualatin Rd
Tualatin OR 97062
US

00-04-51 (hex) Medrad, Inc.
000451 (base 16) Medrad, Inc.
One Medrad Drive
Indianola PA 15051
US

00-04-53 (hex) YottaYotta, Inc.
000453 (base 16) YottaYotta, Inc.
6020- 104 Street

Edmonton, AB T6H 5S4
CA

00-04-50 (hex) DMD Computers SRL
000450 (base 16) DMD Computers SRL
Via Monviso, 14

IT

00-04-43 (hex) Agilent Technologies, Inc.
000443 (base 16) Agilent Technologies, Inc.
5301 Stevens Creek Boulevard
Santa Clara CA 95051
US

00-04-49 (hex) Mapletree Networks
000449 (base 16) Mapletree Networks
315 Norwood Park South
Norwood MA 02062
US

00-04-5A (hex) The Linksys Group, Inc.
00045A (base 16) The Linksys Group, Inc.
17401 Armstrong Ave.
Irvine CA 92614
US

00-04-63 (hex) Bosch Security Systems
000463 (base 16) Bosch Security
Systems
850 Greenfield Road
Lancaster PA 17601-5874
US

00-04-5C (hex) Mobiwave Pte Ltd
00045C (base 16) Mobiwave Pte Ltd
Blk 16, Kallang Place
339156
SG

00-04-15 (hex) Rasteme Systems Co., Ltd.
000415 (base 16) Rasteme Systems Co., Ltd.
886-2 Nihongi Nakagou-mura

JP

00-04-03 (hex) Nexsi Corporation
000403 (base 16) Nexsi Corporation

1959 Concourse Drive
San Jose CA 95131
US

00-04-06 (hex) Fa. Metabox AG
000406 (base 16) Fa. Metabox AG
Daimlerring 37,

DE

00-04-C3 (hex) CASTOR Informatique
0004C3 (base 16) CASTOR Informatique
2, Rue Du Kefir
94537 Orly Cedex
FR

00-04-B1 (hex) Signal Technology, Inc.
0004B1 (base 16) Signal Technology, Inc.
3rd. Fl. Dabo Bldg.
Seoul KOREA 138-110
KR

00-04-B5 (hex) Equitrac Corporation
0004B5 (base 16) Equitrac Corporation
1905 N.W. 82nd Avenue
Miami FL 33126
US

00-04-83
(hex) Deltron Technology, Inc.
000483 (base 16) Deltron Technology, Inc.
8F-3, No. 125, Lane 235
Taipei TAIWAN, R.O.C.
TW

00-04-82 (hex) Medialogic Corp.
000482 (base 16) Medialogic Corp.
0-3, Toyamaken-Sangyou

JP

00-04-67 (hex) Wuhan Research Institute of MII
000467 (base 16) Wuhan Research Institute of MII
88 Youkeyuan Road,
430074 430074 P.R.CHINA
CN

00-04-41 (hex) Half Dome Systems, Inc.

000441 (base 16) Half Dome Systems, Inc.
155 B-1 Moffet Park Drive
Sunnyvale CA 94089
US

00-03-C7 (hex) hopf Elektronik GmbH
0003C7 (base 16) hopf Elektronik GmbH
Nottebohmstraße 41
58511 Lüdenscheid
DE

00-03-C2 (hex) Solphone K.K.
0003C2 (base 16) Solphone K.K.
2-11-1 Kandatsukasa-cho
101-0048
JP

00-03-C6 (hex) ICUE Systems, Inc.
0003C6 (base 16) ICUE Systems, Inc.
17489 Gale Avenue
City of Industry CA 91748
US

00-03-BB (hex) Signal
Communications Limited
0003BB (base 16) Signal Communications Limited
Unit 217, 2/F, HKITC,
HONG KONG
HK

00-03-BE (hex) Netility
0003BE (base 16) Netility
298 South Sunnyvale Ave.
Sunnyvale CA 94086
US

00-03-F3 (hex) Dazzle Multimedia, Inc.
0003F3 (base 16) Dazzle Multimedia, Inc.
47211 Bayside Parkway
Fremont CA 94538
US

00-03-EC (hex) ICG Research, Inc.
0003EC (base 16) ICG Research, Inc.
775 B The Queens Way
M8Z 1N1
CA

00-03-E9 (hex) Akara Canada, Inc.
0003E9 (base 16) Akara Canada, Inc.
150 Katimavik Road
CANADA K2L 2N2
CA

00-03-E5 (hex) Hermstedt SG
0003E5 (base 16) Hermstedt SG
Carl-Reuther - Str. 3

DE

00-03-E8 (hex) Wavesight Limited
0003E8 (base 16) Wavesight Limited
13 Dencora Way
Luton Sundon Business Park LU3 3HP
GB

00-03-97 (hex) FireBrick Limited
000397 (base 16) FireBrick Limited
C/O Andrews & Arnold
Ltd,
Enterprise Court, Downmill Road Bracknell, Berks RG12 1QS
GB

00-03-98 (hex) WISI
000398 (base 16) WISI
Wilhelm-Sihn-Str. 5-7
D-75223 Niefern-Oeschelbronn
DE

00-03-9E (hex) Tera System Co., Ltd.
00039E (base 16) Tera System Co., Ltd.
Doosung B/F Rm 302
Republic of Korea
KR

00-03-92 (hex) Hyundai Teletek Co., Ltd.
000392 (base 16) Hyundai Teletek Co., Ltd.
B-501, Techno Park, 148 Yatap-dong,
KOREA Republic
KR

00-03-95 (hex) California Amplifier
000395 (base 16) California Amplifier
460 Calle San Pablo
Camarillo CA 93012
US

00-03-B4 (hex) Macrotek International Corp.
0003B4 (base 16) Macrotek International Corp.
2F, No. 28, Lane 46
Taipei Taipei TAIWAN
TW

00-03-A6 (hex) Traxit Technology, Inc.
0003A6 (base 16) Traxit Technology, Inc.
256 Great Road,
Littleton MA 01461
US

00-03-A4 (hex) Imation Corp.
0003A4 (base 16) Imation
Corp.
1 Imation Place
Oakdale MN 55128-3414
US

00-03-AB (hex) Bridge Information Systems
0003AB (base 16) Bridge Information Systems
717 Office Parkway
St. Louis MO 63141
US

00-03-F8 (hex) SanCastle Technologies, Inc.
0003F8 (base 16) SanCastle Technologies, Inc.
2107 North First Street
San Jose CA 95131
US

00-03-FA (hex) TiMetra Networks
0003FA (base 16) TiMetra Networks
500 Ellis St.
Mountain View CA 94043
US

00-03-FB (hex) ENEGATE Co.,Ltd.
0003FB (base 16) ENEGATE Co.,Ltd.
3-14-40 Senrioka,
Settsu-city Osaka 566-8686
JP

00-03-F6 (hex) Allegro Networks, Inc.
0003F6 (base 16) Allegro Networks, Inc.
6399 San Ignacio Avenue
San Jose CA 95119

US

00-03-CA (hex) MTS Systems Corp.
0003CA (base 16) MTS Systems Corp.
3001 Sheldon Drive
Cary, NC 27513
US

00-03-CB (hex) SystemGear Co., Ltd.
0003CB (base 16) SystemGear Co., Ltd.
1-9-14
Edobori
Osaka Nishi-ku 550-0002
JP

00-03-DF (hex) Desana Systems
0003DF (base 16) Desana Systems
1805 McCandless Ave.
Milpitas CA 95035
US

00-03-DA (hex) Takamisawa Cybernetics Co., Ltd.
0003DA (base 16) Takamisawa Cybernetics Co., Ltd.
Nakano Heiwa Bldg.

JP

00-03-D9 (hex) Secheron SA
0003D9 (base 16) Secheron SA
Untermattweg 8

CH

00-03-7F (hex) Atheros Communications, Inc.
00037F (base 16) Atheros Communications, Inc.
5480 Great America Parkway
Santa Clara CA 95054
US

00-02-F0 (hex) AME Optimedia Technology Co., Ltd.
0002F0 (base 16) AME Optimedia Technology Co., Ltd.
17F-2, 79 Hsin Tai Wu Road, Sec. 1,

TW

00-03-8E (hex) Atoga Systems, Inc.
00038E (base 16) Atoga Systems, Inc.
49026 Milmont Drive

Fremont CA 94538
US

00-03-7C (hex) Coax Media
00037C (base 16) Coax Media
1220 Oak Industrial Lane
Cumming GA 30041
US

00-03-0D
(hex) Uniwill Computer Corp.
00030D (base 16) Uniwill Computer Corp.
No. 24, Pei Yuan Rd., Chung
Li City
TW

00-03-09 (hex) Texcel Technology PLC
000309 (base 16) Texcel Technology PLC
Thames Road
ENGLAND
GB

00-03-03 (hex) JAMA Electronics Co., Ltd.
000303 (base 16) JAMA Electronics Co., Ltd.
10F, No. 222-1, Sec. 3
Taipei Hsien
TW

00-03-05 (hex) MSC Vertriebs GmbH
000305 (base 16) MSC Vertriebs GmbH
Design Center Aachen
AACHEN D-52076
DE

00-02-FE (hex) Viditec, Inc.
0002FE (base 16) Viditec, Inc.
520 Central Parkway E.
Plano TX 75074
US

00-01-9F (hex) ReadyNet
00019F (base 16) ReadyNet
6952 High Tech Drive
Midvale UT 84047
US

00-02-FF (hex) Handan BroadInfoCom
0002FF (base 16) Handan BroadInfoCom

5th Fl. Shinsung Plaza #697-11
Seoul
KR

00-03-27 (hex) HMS Industrial Networks
000327 (base 16) HMS
Industrial Networks
P O Box 4126
Halmstad Halland 300 04
SE

00-03-2E (hex) Scope Information Management, Ltd.
00032E (base 16) Scope Information Management, Ltd.
2F Chanwoo b/o 736 Youksang-dong,
Seoul 135-080
KR

00-03-29 (hex) F3, Inc.
000329 (base 16) F3, Inc.
2F, No. 7, Industry E. Rd. 9,
Hsinchu
TW

00-03-21 (hex) Reco Research Co., Ltd.
000321 (base 16) Reco Research Co., Ltd.
No. 47-1, Sec. 2,

TW

00-03-16 (hex) Nobell Communications, Inc.
000316 (base 16) Nobell Communications, Inc.
3410 Far West Blvd., Suite 240
Austin TX 78731
US

00-03-0F (hex) Digital China (Shanghai) Networks Ltd.
00030F (base 16) Digital China (Shanghai) Networks Ltd.
602-23, Haitai Building, 351 Guo Shoujin
Shanghai
CN

00-03-11 (hex) Micro Technology Co., Ltd.
000311 (base 16) Micro Technology Co., Ltd.
Suehiro Bldg.
101-0021
JP

00-03-1A (hex) Beijing

Broad Telecom Ltd., China
00031A (base 16) Beijing Broad Telecom Ltd., China
P.O. Box #147
Beijing 100876
CN

00-03-5B (hex) BridgeWave Communications
00035B (base 16) BridgeWave Communications
3350 Thomad Road
Santa Clara CA 95054
US

00-03-57 (hex) Intervoice-Brite, Inc.
000357 (base 16) Intervoice-Brite, Inc.
17811 Waterview Pkwy.
Dallas TX 75252
US

00-03-45 (hex) Routrek Networks Corporation
000345 (base 16) Routrek Networks Corporation
Nilssei Shin Mizonokuchi Bldg. 1F
23-0011
JP

00-02-E9 (hex) CS Systemes De Securite - C3S
0002E9 (base 16) CS Systemes De Securite - C3S
23, rue de Schwobsheim

FR

00-02-E5 (hex) Timeware Ltd.
0002E5 (base 16) Timeware Ltd.
Brookfield Grange
Lancs 042 GLB
GB

00-02-E0 (hex) ETAS GmbH
0002E0 (base 16) ETAS GmbH
Borsigstraße 10

DE

00-03-3F (hex) BigBand Networks, Ltd.
00033F
(base 16) BigBand Networks, Ltd.
3 Azrieli Towers

IL

00-03-68 (hex) Embedone Co., Ltd.
000368 (base 16) Embedone Co., Ltd.
Fl. 9 Annex Samhwan B/D. 17-26
Seoul 150-01
KR

00-02-F5 (hex) VIVE Synergies, Inc.
0002F5 (base 16) VIVE Synergies, Inc.
30 West Beaver Creek Road, Unit 101
L4B 3K1
CA

00-02-B7 (hex) Watanabe Electric Industry Co., Ltd.
0002B7 (base 16) Watanabe Electric Industry Co., Ltd.
6-16-19, Jingumae, Shibuya-ku

JP

00-02-AF (hex) TeleCruz Technology, Inc.
0002AF (base 16) TeleCruz Technology, Inc.
2391 Qume Dr.
San Jose CA 95131
US

00-02-A8 (hex) Air Link Technology
0002A8 (base 16) Air Link Technology
Bethel Bldg. 303
Seoul KOREA 137-130
KR

00-02-AB (hex) CTC Union Technologies Co., Ltd.
0002AB (base 16) CTC Union Technologies Co., Ltd.
8F No. 60 Zhouzi St.
Neihu Taipei 114
TW

00-02-A4 (hex) AddPac Technology
Co., Ltd.
0002A4 (base 16) AddPac Technology Co., Ltd.
3F Jeoung Am Bldg., 769-12
Seoul Seoul Korea
KR

00-02-A3 (hex) Hitachi Energy Switzerland Ltd
0002A3 (base 16) Hitachi Energy Switzerland Ltd
Bruggerstrasse 72
Baden 5400

CH

00-02-A0 (hex) Flatstack Ltd.
0002A0 (base 16) Flatstack Ltd.
1112 Budapest

HU

00-02-C3 (hex) Arelnet Ltd.
0002C3 (base 16) Arelnet Ltd.
3 Hayarden St.

IL

00-02-C8 (hex) Technocom Communications Technology (pte) Ltd
0002C8 (base 16) Technocom Communications Technology (pte) Ltd
189 Kaki Buckit Avenue 1
Singapore 416029
SG

00-02-B8 (hex) WHI KONSULT AB
0002B8 (base 16) WHI KONSULT AB
Scheelegatan 11
Stockholm SE-112 28
SE

00-02-BB (hex) Continuous Computing Corp
0002BB (base 16) Continuous Computing Corp
9380 Carroll Park Drive
San Diego CA 92121
US

00-02-BC (hex) LVL 7 Systems, Inc.
0002BC
(base 16) LVL 7 Systems, Inc.
13000 Weston Pkwy
Cary NC 27513
US

00-02-A9 (hex) RACOM, s.r.o.
0002A9 (base 16) RACOM, s.r.o.
Mirova 1283, Nove Mesto na Morave
592 31 Czech republic
CZ

00-02-B2 (hex) Cablevision
0002B2 (base 16) Cablevision
420 Crossways Park Drive West

Woodbury NY 11787
US

00-02-5B (hex) Cambridge Silicon Radio
00025B (base 16) Cambridge Silicon Radio
Unit 400, Science Park,
United Kingdom
GB

00-02-56 (hex) Alpha Processor, Inc.
000256 (base 16) Alpha Processor, Inc.
130 C Baker Ave. Ext.
Concord MA 01742
US

00-02-59 (hex) Tsann Kuen China (Shanghai)Enterprise Co., Ltd. IT Group
000259 (base 16) Tsann Kuen China (Shanghai)Enterprise Co., Ltd. IT Group
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CHINA 200021
CN

00-02-51 (hex) Soma Networks, Inc.
000251 (base 16) Soma Networks, Inc.
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US

00-02-6A
(hex) Cocess Telecom Co., Ltd.
00026A (base 16) Cocess Telecom Co., Ltd.
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Seoul Seoul KOREA
KR

00-02-6C (hex) Philips CFT
00026C (base 16) Philips CFT
Building SAN 6
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NL

00-02-62 (hex) Soyo Group Soyo Com Tech Co., Ltd
000262 (base 16) Soyo Group Soyo Com Tech Co., Ltd
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Taipei Hsien Taiwan R.O.C.
TW

00-02-65 (hex) Virditech Co. Ltd.
000265 (base 16) Virditech Co. Ltd.

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00028A (base 16) Ambit Microsystems Corporation
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TW

00-01-FA (hex) HOROSCAS
0001FA (base 16) HOROSCAS
26, LOUIS BLANC

FR

00-02-82 (hex) ViaClix, Inc.
000282 (base 16) ViaClix, Inc.
1400 Dell Ave., Suite B
Campbell CA 95008
US

00-02-85 (hex) Riverstone Networks
000285
(base 16) Riverstone Networks
5200 Great America Parkway
Santa Clara CA 95054
US

00-02-94 (hex) Tokyo Sokushin Co., Ltd.
000294 (base 16) Tokyo Sokushin Co., Ltd.
5-16-12 Nishi-Nippori

JP

00-02-96 (hex) Lectron Co,. Ltd.
000296 (base 16) Lectron Co,. Ltd.
9F, No.171, Sec. 2, Tatung Rd.,
Taiwan Taiwan R.O.C.
TW

00-02-8E (hex) Rapid 5 Networks, Inc.
00028E (base 16) Rapid 5 Networks, Inc.
180 Baytech Drive
San Jose CA 95134-2302
US

00-02-79 (hex) Control Applications, Ltd.

000279 (base 16) Control Applications, Ltd.
3 Tevuot Haarets St.

IL

00-02-4F (hex) IPM Datacom S.R.L.
00024F (base 16) IPM Datacom S.R.L.
Via Roma, 231
Naples
IT

00-02-3C (hex) Creative Technology, Ltd.
00023C (base 16) Creative Technology, Ltd.
31 International Business Park
Republic of
SG

00-02-2C (hex) ABB Bomem, Inc.
00022C (base 16) ABB Bomem,
Inc.
585, boul. Charest Est
Canada G1K 9H4
CA

00-02-D5 (hex) ACR
0002D5 (base 16) ACR
Cardoulines B2

FR

00-02-CE (hex) FoxJet, Inc.
0002CE (base 16) FoxJet, Inc.
2016 E. Randal Mill Rd. #409
Arlington TX 76011-8223
US

00-01-E1 (hex) Kinpo Electronics, Inc.
0001E1 (base 16) Kinpo Electronics, Inc.
No.147, Sec. 3, Beishen Rd
Shenkeng Dist. New Taipei City 222
TW

00-01-DA (hex) WINCOMM Corporation
0001DA (base 16) WINCOMM Corporation
2F, No. 3, Prosperity Road 1,
Hsinchu Taiwan
TW

00-01-D2 (hex) inXtron, Inc.
0001D2 (base 16) inXtron, Inc.
8F, No.52, MinQuan Road, Xindian Dist.
New Taipei City 23141
TW

00-01-C6 (hex) Quarry Technologies
0001C6 (base 16) Quarry Technologies
8 New England Executive Park
Burlington MA 01803
US

00-01-FF (hex) Data Direct Networks, Inc.
0001FF (base 16) Data Direct Networks, Inc.
9320 Lurline
Avenue
Chatsworth CA 91311
US

00-01-FC (hex) Keyence Corporation
0001FC (base 16) Keyence Corporation
1-3-14, Higashi-Nakajima,

JP

00-01-FD (hex) Digital Voice Systems, Inc.
0001FD (base 16) Digital Voice Systems, Inc.
234 Littleton Road
Westford MA 01886
US

00-01-EE (hex) Comtrol Europe, Ltd.
0001EE (base 16) Comtrol Europe, Ltd.
The Courtyard Studio
U.K.
GB

00-01-F0 (hex) Tridium, Inc.
0001F0 (base 16) Tridium, Inc.
3951 Westerre Parkway
Richmond VA 23233
US

00-01-F1 (hex) Innovative Concepts, Inc.
0001F1 (base 16) Innovative Concepts, Inc.
8200 Greensboro Drive
McLean VA 22102
US

00-02-2F (hex) P-Cube, Ltd.
00022F (base 16) P-Cube, Ltd.
P.O. Box 12331

IL

00-02-27 (hex) ESD Electronic System Design GmbH
000227 (base 16) ESD Electronic System Design GmbH
Vahrenwalder Str. 207
30 165 Hannover
DE

00-02-1D
(hex) Data General Communication Ltd.
00021D (base 16) Data General Communication Ltd.
Rm. 18C, Bldg. C, CEIEC Tower

CN

00-02-19 (hex) Paralon Technologies
000219 (base 16) Paralon Technologies
700 Fifth Ave, Suite 6101
Seattle WA 98104
US

00-02-10 (hex) Fenecom
000210 (base 16) Fenecom
7/F Kon-kuk University Alumni
Seoul Seoul Korea
KR

00-02-0B (hex) Native Networks, Inc.
00020B (base 16) Native Networks, Inc.
P.O. Box 7165

IL

00-02-18 (hex) Advanced Scientific Corp
000218 (base 16) Advanced Scientific Corp
1 Fl., No. 26, Industry East 9th Road
TAIWAN
TW

00-02-03 (hex) Woonsang Telecom, Inc.
000203 (base 16) Woonsang Telecom, Inc.
104-9, Munji-Dong, Yusong-Gu
KOREA

KR

00-01-F5 (hex) ERIM S.A.
0001F5 (base 16) ERIM S.A.
11 Av Republique

FR

00-01-CE (hex) Custom Micro Products, Ltd.
0001CE (base 16) Custom
Micro Products, Ltd.
450 Blandford Road
UNITED KINGDOM
GB

00-01-BB (hex) Frequentis
0001BB (base 16) Frequentis
SPITTELBREITENGASSE 34

AT

00-01-BC (hex) Brains Corporation
0001BC (base 16) Brains Corporation
2-27-8-4Fl TAMAGAWA

JP

00-01-C0 (hex) CompuLab, Ltd.
0001C0 (base 16) CompuLab, Ltd.
P.O. Box 66

IL

00-01-A0 (hex) Infinilink Corporation
0001A0 (base 16) Infinilink Corporation
1740 E. Garry Ave. - Ste. #206
Santa Ana CA 92705
US

00-01-96 (hex) Cisco Systems, Inc
000196 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-01-7C (hex) AG-E GmbH
00017C (base 16) AG-E GmbH
Dennewartstraße 27

DE

00-01-E2 (hex) Ando Electric Corporation
0001E2 (base 16) Ando Electric Corporation
19-7, Kamata 4-Chrome, Ota-ku

JP

00-01-D3 (hex) PAXCOMM, Inc.
0001D3 (base 16) PAXCOMM, Inc.
7th
F The Corp. Center
KOREA
KR

00-01-99 (hex) HeiSei Electronics
000199 (base 16) HeiSei Electronics
5/7 Alley 8, Lane 45
TAIWAN
TW

00-01-72 (hex) TechnoLand Co., LTD.
000172 (base 16) TechnoLand Co., LTD.
3-17-11 Akebono-cho

JP

00-30-6C (hex) Hitex Holding GmbH
00306C (base 16) Hitex Holding GmbH
Greschbachstraße 12
76229 Karlsruhe
DE

00-30-8B (hex) Brix Networks
00308B (base 16) Brix Networks
300 Concord Road
Billerica MA 01821
US

00-01-77 (hex) EDSL
000177 (base 16) EDSL
Habarzel 1 st
ISRAEL 69710
IL

00-01-4D (hex) Shin Kin Enterprises Co., Ltd
00014D (base 16) Shin Kin Enterprises Co., Ltd

7, FU Hsing St. Tue Cheng Ind.
TAIWAN TAIWAN R.O.C.
TW

00-01-10 (hex) Gotham Networks
000110 (base 16) Gotham Networks
15 Discovery Way
Acton MA 01720
US

00-01-12 (hex) Shark Multimedia Inc.
000112 (base
16) Shark Multimedia Inc.
48890 Milmont Drive #101-D
Fremont CA 94538
US

00-01-16 (hex) Netspect Technologies, Inc.
000116 (base 16) Netspect Technologies, Inc.
3945 Freedom Circle - Ste. #360
Santa Clara CA 95054
US

00-01-08 (hex) AVLAB Technology, Inc.
000108 (base 16) AVLAB Technology, Inc.
3F-1, No. 134, Sec. 3
Hsin Tien, Taipei
TW

00-06-2B (hex) INTRASERVER TECHNOLOGY
00062B (base 16) INTRASERVER TECHNOLOGY
SEVEN OCTOBER HILL RD.
HOLLISTON MA 01746
US

00-01-00 (hex) EQUIP'TRANS
000100 (base 16) EQUIP'TRANS
31 rue Paul Cezanne
LA ROCHETTE 77000
FR

00-B0-9D (hex) Point Grey Research Inc.
00B09D (base 16) Point Grey Research Inc.
305-1847 West Broadway
Vancouver British Columbia V6J 1Y6
CA

00-B0-6D (hex) Jones Futurex Inc.

00B06D (base 16) Jones Futurex Inc.
3715 Atherton Road
Rocklin CA 95765
US

00-01-6E (hex) Conklin Corporation
00016E
(base 16) Conklin Corporation
6141 Crooked Creek Road
Norcross GA 30092-3193
US

00-01-74 (hex) CyberOptics Corporation
000174 (base 16) CyberOptics Corporation
5900 Golden Hills Drive
Golden Valley MN 55416
US

00-01-5E (hex) BEST TECHNOLOGY CO., LTD.
00015E (base 16) BEST TECHNOLOGY CO., LTD.
7F, Haesung B/D
KOREA
KR

00-01-61 (hex) Meta Machine Technology
000161 (base 16) Meta Machine Technology
400 Silver Cedar Court - ste. #220
Chapel Hill NC 27514
US

00-01-55 (hex) Promise Technology, Inc.
000155 (base 16) Promise Technology, Inc.
4F, 1, Prosperity 1st Road
TAIWAN
TW

00-01-1E (hex) Precidia Technologies, Inc.
00011E (base 16) Precidia Technologies, Inc.
10A Hearst Way
Kanata Ontario K2M-2C4
CA

00-01-13 (hex) OLYMPUS CORPORATION
000113 (base 16) OLYMPUS CORPORATION
2-3 Kuboyama-cho, Hachioji-shi
Tokyo 192-8512 j
JP

00-01-9D
(hex) E-Control Systems, Inc.
00019D (base 16) E-Control Systems, Inc.
9420 Lurline Ave., Unite
Chatsworth CA 91311
US

00-01-8B (hex) NetLinks Co., Ltd.
00018B (base 16) NetLinks Co., Ltd.
3F Dscom Bldg., 238-3
KOREA
KR

00-01-8D (hex) AudeSi Technologies
00018D (base 16) AudeSi Technologies
Suite 180, 6815
AB
CA

00-01-A1 (hex) Mag-Tek, Inc.
0001A1 (base 16) Mag-Tek, Inc.
1710 Apollo Court
Seal Beach CA 90740
US

00-01-86 (hex) Uwe Disch
000186 (base 16) Uwe Disch
Eichenhainstraße 14

DE

00-01-A6 (hex) Scientific-Atlanta Arcodan A/S
0001A6 (base 16) Scientific-Atlanta Arcodan A/S
Avgustenborg Landevej 7

DK

00-01-2E (hex) PC Partner Ltd.
00012E (base 16) PC Partner Ltd.
Rm 1901-1908, 19/F, Shatin Galleria

CN

00-01-3E (hex) Ascom Tateco AB
00013E (base 16) Ascom Tateco AB
Box 8783

SE

00-01-32
(hex) Dranetz - BMI
000132 (base 16) Dranetz - BMI
1000 New Durham Road
Edison NJ 08818
US

00-01-3B (hex) BNA SYSTEMS
00013B (base 16) BNA SYSTEMS
1637 S. Main Street
Milpitas CA 95035
US

00-01-34 (hex) Selectron Systems AG
000134 (base 16) Selectron Systems AG
Bernstreasse 70

CH

00-30-32 (hex) MagicRam, Inc.
003032 (base 16) MagicRam, Inc.
1850 Beverly Blvd.
Los Angeles CA 90057
US

00-30-EA (hex) TeraForce Technology Corporation
0030EA (base 16) TeraForce Technology Corporation
1100 EXECUTIVE DRIVE
RICHARDSON TX 75081
US

00-30-69 (hex) IMPACCT TECHNOLOGY CORP.
003069 (base 16) IMPACCT TECHNOLOGY CORP.
2F, NO. 12, R&D RD. II
TAIWAN TAIWAN R.O.C.
TW

00-30-C3 (hex) FLUECKIGER ELEKTRONIK AG
0030C3 (base 16) FLUECKIGER ELEKTRONIK AG
KIRCHBARGSTRASSE 201

CH

00-30-5A (hex) TELGEN CORPORATION
00305A (base
16) TELGEN CORPORATION
3101 SOVEREIGN DR. - STE.

LANSING MI 48911
US

00-30-8A (hex) NICOTRA SISTEMI S.P.A
00308A (base 16) NICOTRA SISTEMI S.P.A
41 Via Primo Maggio
Baranzate (MI) 20021
IT

00-30-72 (hex) Intellibyte Inc.
003072 (base 16) Intellibyte Inc.
Canada Trust Tower - BCE Place
Toronto Ontario M5J 2S1
CA

00-30-06 (hex) SUPERPOWER COMPUTER
003006 (base 16) SUPERPOWER COMPUTER
ELECTRONICS CO., LTD.
Taipei 248
TW

00-30-38 (hex) XCP, INC.
003038 (base 16) XCP, INC.
40 ELM STREET
DRYDEN NY 13053
US

00-30-79 (hex) CQOS, INC.
003079 (base 16) CQOS, INC.
25 MAUCHLY - STE. #329
IRVINE CA 92618
US

00-30-9B (hex) Smartware
00309B (base 16) Smartware
49 AV Aristide
92160 Antony
FR

00-30-45 (hex) Village Networks, Inc. (VNI)
003045 (base 16) Village Networks, Inc. (VNI)
100 Village Court - Ste. #301
Hazlet NJ 07730
US

00-30-E5
(hex) Amper Datos S.A.
0030E5 (base 16) Amper Datos S.A.

C/Marconi n*3 (PTM)
28760 Madrid
ES

00-30-94 (hex) Cisco Systems, Inc
003094 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-30-40 (hex) Cisco Systems, Inc
003040 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-B0-94 (hex) Alaris, Inc.
00B094 (base 16) Alaris, Inc.
47338 Fremont Boulevard
Fremont CA 94538
US

00-30-F0 (hex) Uniform Industrial Corp.
0030F0 (base 16) Uniform Industrial Corp.
18F, 171, Shung Teh Road
Taipei
TW

00-30-C9 (hex) LuxN, N
0030C9 (base 16) LuxN, N
570 Maude Court
Sunnyvale CA 94086
US

00-30-10 (hex) VISIONETICS INTERNATIONAL
003010 (base 16) VISIONETICS INTERNATIONAL
3F, NO. 3, PROSPERITY ROAD 1
TAIWAN R.O.C.
TW

00-30-17 (hex) BlueArc UK Ltd
003017 (base 16) BlueArc UK
Ltd
Queensgate House
Bracknell RG12 1RB
GB

00-30-F7 (hex) RAMIX INC.

0030F7 (base 16) RAMIX INC.
1672 DONLON STREET
VENTURA CA 93003
US

00-30-D0 (hex) Tellabs
0030D0 (base 16) Tellabs
1750 Founder's Parkway
Alpharetta GA 30004
US

00-30-14 (hex) DIVIO, INC.
003014 (base 16) DIVIO, INC.
997 E. ARQUES AVENUE
SUNNYVALE CA 94086
US

00-30-0C (hex) CONGRUENCY, LTD.
00300C (base 16) CONGRUENCY, LTD.
23 HASIVIM STREET
PETAH-TIKVA 49170
IL

00-30-4C (hex) APPIAN COMMUNICATIONS, INC.
00304C (base 16) APPIAN COMMUNICATIONS, INC.
80 CENTRAL STREET
BOXBOROUGH MA 01719
US

00-30-28 (hex) FASE Saldatura srl
003028 (base 16) FASE Saldatura srl
V.R. Bernardi 5
TORINO
IT

00-30-E8 (hex) ENSIM CORP.
0030E8 (base 16) ENSIM CORP.
1215 Terra Bella Ave.
Mountainview CA 94043
US

00-30-D9 (hex) DATACORE SOFTWARE CORP.
0030D9 (base
16) DATACORE SOFTWARE CORP.
CORPORATE PARK
FORT LAUDERDALE FL 33309
US

00-30-26 (hex) HeiTel Digital Video GmbH
003026 (base 16) HeiTel Digital Video GmbH
Stuthagen 25

DE

00-30-47 (hex) NISSEI ELECTRIC CO., LTD.
003047 (base 16) NISSEI ELECTRIC CO., LTD.
32 MIYAWAKE, SHIMONOISHIKI-CHO

JP

00-30-77 (hex) ONPREM NETWORKS
003077 (base 16) ONPREM NETWORKS
42501 ALBRAE STREET
FREMONT CA 94538
US

00-30-D4 (hex) AAE Systems, Inc.
0030D4 (base 16) AAE Systems, Inc.
642 North Pastoria Avenue
Sunnyvale CA 94085
US

00-D0-D7 (hex) B2C2, INC.
00D0D7 (base 16) B2C2, INC.
2020 CHALLENGER DRIVE-
ALAMEDA CA 94501
US

00-D0-73 (hex) ACN ADVANCED COMMUNICATIONS
00D073 (base 16) ACN ADVANCED COMMUNICATIONS
NETWORKS SA

CH

00-D0-57 (hex) ULTRAK, INC.
00D057 (base 16) ULTRAK, INC.
1301 WATERS RIDGE DRIVE
LEWISVILLE TX 75057
US

00-D0-E5
(hex) SOLIDUM SYSTEMS CORP.
00D0E5 (base 16) SOLIDUM SYSTEMS CORP.
940 BELFAST ROAD 1S.217

CA

00-D0-36 (hex) TECHNOLOGY ATLANTA CORP.
00D036 (base 16) TECHNOLOGY ATLANTA CORP.
141 W. WIEUCA RD. N.E.
ATLANTA GA 30342
US

00-D0-E3 (hex) ELE-CHEM ENGINEERING CO., LTD.
00D0E3 (base 16) ELE-CHEM ENGINEERING CO., LTD.
WINDSTONE OFFICE
SEOUL 137-130 SEOUL 137-130 KOREA
KR

00-D0-C4 (hex) TERATECH CORPORATION
00D0C4 (base 16) TERATECH CORPORATION
223 MIDDLESEX TRPK.
BURLINGTON MA 01803-3308
US

00-D0-45 (hex) KVASER AB
00D045 (base 16) KVASER AB
BOX 4076

SE

00-D0-04 (hex) PENTACOM LTD.
00D004 (base 16) PENTACOM LTD.
8 HASADNAOT STREET

IL

00-D0-05 (hex) ZHS ZEITMANAGEMENTSYSTEME
00D005 (base 16) ZHS ZEITMANAGEMENTSYSTEME
HARD-UND SOFTWARE GMBH

DE

00-30-1C (hex) ALTVATER AIRDATA SYSTEMS
00301C (base 16) ALTVATER
AIRDATA SYSTEMS
GMBH & CO. KG

DE

00-30-80 (hex) Cisco Systems, Inc
003080 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568

US

00-30-81 (hex) ALTOS C&C
003081 (base 16) ALTOS C&C
150-010 RM. 1012, 44-1
KOREA
KR

00-D0-D3 (hex) Cisco Systems, Inc
00D0D3 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-D0-17 (hex) SYNTECH INFORMATION CO., LTD.
00D017 (base 16) SYNTECH INFORMATION CO., LTD.
8F, 210, TA-TUNG RD., SEC. 3
TAIWAN TAIWAN ROC
TW

00-D0-61 (hex) TREMON ENTERPRISES CO., LTD.
00D061 (base 16) TREMON ENTERPRISES CO., LTD.
15F, NO. 116, SEC. 1
TAIWAN TAIWAN ROC
TW

00-D0-26 (hex) HIRSCHMANN AUSTRIA GMBH
00D026 (base 16) HIRSCHMANN AUSTRIA GMBH
OBERER PASPELSWEG 6 - 8

AT

00-30-AB (hex) DELTA NETWORKS, INC.
0030AB (base 16) DELTA NETWORKS, INC.
8, KON JAN WEST ROAD
TAIWAN
TAIWAN R.O.C.
TW

00-30-49 (hex) BRYANT TECHNOLOGY, LTD.
003049 (base 16) BRYANT TECHNOLOGY, LTD.
P.O. BOX 69557
SOUTH AFRICA
ZA

00-30-6D (hex) LUCENT TECHNOLOGIES
00306D (base 16) LUCENT TECHNOLOGIES
300 BAKER AVENUE - STE. #100

CONCORD MA 01742-2168
US

00-D0-F0 (hex) CONVISION TECHNOLOGY GMBH
00D0F0 (base 16) CONVISION TECHNOLOGY GMBH
REBENRING 33

DE

00-D0-10 (hex) CONVERGENT NETWORKS, INC.
00D010 (base 16) CONVERGENT NETWORKS, INC.
2 HIGHWOOD DRIVE
TEWKSBURY MA 01876
US

00-D0-4B (hex) LA CIE GROUP S.A.
00D04B (base 16) LA CIE GROUP S.A.
17 RUE AMPERE

FR

00-D0-0E (hex) PLURIS, INC.
00D00E (base 16) PLURIS, INC.
10455 BANDLEY DRIVE
CUPERTINO CA 95014
US

00-D0-12 (hex) GATEWORKS CORP.
00D012 (base 16) GATEWORKS CORP.
7631 MORRO ROAD
ATASCADERO CA 93422
US

00-D0-4D (hex) DIV OF RESEARCH & STATISTICS
00D04D
(base 16) DIV OF RESEARCH & STATISTICS
BOG OF THE FEDERAL RESERVE SYS
WASHINGTON DC 20551
US

00-D0-2E (hex) COMMUNICATION AUTOMATION CORP.
00D02E (base 16) COMMUNICATION AUTOMATION CORP.
1180 MCDERMOTT DRIVE
WEST CHESTER PA 19380
US

00-D0-C5 (hex) COMPUTATIONAL SYSTEMS, INC.
00D0C5 (base 16) COMPUTATIONAL SYSTEMS, INC.

835 INNOVATION DRIVE
KNOXVILLE TN 37932
US

00-D0-46 (hex) DOLBY LABORATORIES, INC.
00D046 (base 16) DOLBY LABORATORIES, INC.
100 Potrero Avenue
San Francisco CA 94103-4938
US

00-D0-DE (hex) PHILIPS MULTIMEDIA NETWORK
00D0DE (base 16) PHILIPS MULTIMEDIA NETWORK
SYSTEMS GMBH

DE

00-D0-0C (hex) SNIJDER MICRO SYSTEMS
00D00C (base 16) SNIJDER MICRO SYSTEMS
P.O. BOX 300
THE
NL

00-D0-DA (hex) TAICOM DATA SYSTEMS CO., LTD.
00D0DA (base 16) TAICOM DATA SYSTEMS CO., LTD.
45, WU-KUNG 5 ROAD
TAIWAN
TW

00-D0-1E (hex) PINGTEL
CORP.
00D01E (base 16) PINGTEL CORP.
773 WINTER STREET
N. ANDOVER MA 01845
US

00-D0-65 (hex) TOKO ELECTRIC
00D065 (base 16) TOKO ELECTRIC
4008 KUROHAMA, HASUDA-SHI

JP

00-D0-14 (hex) ROOT, INC.
00D014 (base 16) ROOT, INC.
8F TOC2 Bldg, 7-21-11 Nishi-Gotanda
Tokyo 141-0031
JP

00-D0-CA (hex) Intrinsyc Software International Inc.

00D0CA (base 16) Intrinsyc Software International Inc.
885 Dunsmuir Street, Suite 380
Vancouver B.C. V6C 1N5
CA

00-D0-23 (hex) INFORTREND TECHNOLOGY, INC.
00D023 (base 16) INFORTREND TECHNOLOGY, INC.
10F, NO. 33 SAN-MIN RD.
TAIWAN
TW

00-D0-3C (hex) Vieo, Inc.
00D03C (base 16) Vieo, Inc.
12416 Hymeadow Drive,
Austin TX 78750
US

00-D0-B4 (hex) KATSUJIMA CO., LTD.
00D0B4 (base 16) KATSUJIMA CO., LTD.
1-6-1, SHIRATORI

JP

00-D0-86 (hex) FOVEON, INC.
00D086 (base 16) FOVEON, INC.
2820 San
Tomas Expressway
Santa Clara CA 95051
US

00-D0-E8 (hex) MAC SYSTEM CO., LTD.
00D0E8 (base 16) MAC SYSTEM CO., LTD.
R&D INSTITUTE
KYUNGKI-DO KOREA, 430-017
KR

00-D0-6B (hex) SR TELECOM INC.
00D06B (base 16) SR TELECOM INC.
8150 Trans Canada Highway
Quebec H4S 1M5
CA

00-D0-A8 (hex) NETWORK ENGINES, INC.
00D0A8 (base 16) NETWORK ENGINES, INC.
61 PLEASANT STREET
RANDOLPH MA 02368
US

00-D0-AB (hex) DELTAKABEL TELECOM CV
00D0AB (base 16) DELTAKABEL TELECOM CV
HANZEWEG 14
THE
NL

00-D0-1D (hex) FURUNO ELECTRIC CO., LTD.
00D01D (base 16) FURUNO ELECTRIC CO., LTD.
NO. 9-52, ASHIHARA-CHO
662-8580
JP

00-D0-A2 (hex) INTEGRATED DEVICE
00D0A2 (base 16) INTEGRATED DEVICE
TECHNOLOGY, INC.
SANTA CLARA CA 95054
US

00-D0-9A (hex) FILANET CORPORATION
00D09A (base 16) FILANET CORPORATION
931 Benecia Avenue
Sunnyvale CA 94085
US

00-D0-AE
(hex) ORESIS COMMUNICATIONS, INC.
00D0AE (base 16) ORESIS COMMUNICATIONS, INC.
14670 NW GREENBRIER PKWY
BEAVERTON OR 97006
US

00-D0-F2 (hex) MONTEREY NETWORKS
00D0F2 (base 16) MONTEREY NETWORKS
1909 N. GLENVILLE DRIVE
RICHARDSON TX 75081
US

00-50-A7 (hex) Cisco Systems, Inc
0050A7 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-D0-6C (hex) SHAREWAVE, INC.
00D06C (base 16) SHAREWAVE, INC.
5175 HILLSDALE CIRCLE
EL DORADO HILLS CA 95762
US

00-D0-EE (hex) DICTAPHONE CORPORATION
00D0EE (base 16) DICTAPHONE CORPORATION
3191 BROADBRIDGE AVE.
STRATFORD CT 06614-2559
US

00-D0-DC (hex) MODULAR MINING SYSTEMS, INC.
00D0DC (base 16) MODULAR MINING SYSTEMS, INC.
3289 E. HEMISPHERE LOOP
TUCSON AZ 85706
US

00-D0-A7 (hex) TOKYO SOKKI KENKYUJO CO., LTD.
00D0A7 (base 16) TOKYO SOKKI KENKYUJO CO., LTD.
8-2, MINAMI-OHI 6-CHOME

JAPAN 140-8560
JP

00-D0-34 (hex) ORMEC SYSTEMS CORP.
00D034 (base 16) ORMEC SYSTEMS CORP.
19 LINDEN PARK
ROCHESTER NY 14625
US

00-D0-8A (hex) PHOTRON USA
00D08A (base 16) PHOTRON USA
1101 S. WINCHESTER BLVD.
SAN JOSE CA 95128
US

00-50-36 (hex) NETCAM, LTD.
005036 (base 16) NETCAM, LTD.
6071 N. PASEO ZALDIVAR
TUCSON AZ 85750
US

00-50-83 (hex) GILBARCO, INC.
005083 (base 16) GILBARCO, INC.
POB 22087
GREENSBORO NC 27420
US

00-50-DC (hex) TAS TELEFONBAU A. SCHWABE GMBH & CO. KG
0050DC (base 16) TAS TELEFONBAU A. SCHWABE GMBH & CO. KG

D-41238 MONCHENGLADBACH

DE

00-50-08 (hex) TIVA MICROCOMPUTER CORP. (TMC)
005008 (base 16) TIVA MICROCOMPUTER CORP. (TMC)
48550 FREMONT BLVD.
FREMONT CA 94538
US

00-50-CC (hex) Seagate Cloud Systems Inc
0050CC (base 16) Seagate Cloud Systems Inc
1351 S Sunset Street
Longmont CO 80501
US

00-50-16
(hex) Molex Canada Ltd
005016 (base 16) Molex Canada Ltd
216 Bathurst Drive
Waterloo Ontario N2V 2L7
CA

00-50-4C (hex) Galil Motion Control
00504C (base 16) Galil Motion Control
270 Technology Way
Rocklin CA 95765
US

00-50-76 (hex) IBM Corp
005076 (base 16) IBM Corp
3039 E Cornwallis Road
Research Triangle Park NC 27709-2195
US

00-50-D4 (hex) JOOHONG INFORMATION &
0050D4 (base 16) JOOHONG INFORMATION &
COMMUNICATIONS, LTD.
SEOUL SEOUL KOREA
KR

00-50-A6 (hex) OPTRONICS
0050A6 (base 16) OPTRONICS
175 CREMONA DRIVE
GOLETA CA 93117
US

00-50-DB (hex) CONTEMPORARY CONTROL
0050DB (base 16) CONTEMPORARY CONTROL
SYSTEMS, INC.

DOWNERS GROVE IL 60515
US

00-50-7C (hex) VIDEOCON AG
00507C (base 16) VIDEOCON AG
ALBERT-SCHWEITZER-STR. 64

DE

00-50-47 (hex) Private
005047 (base 16) Private

00-50-84 (hex) Quantum Corp.
005084
(base 16) Quantum Corp.
8560 Upland Dr.
Englewood CO 80112
US

00-50-A9 (hex) MOLDAT WIRELESS TECHNOLGIES
0050A9 (base 16) MOLDAT WIRELESS TECHNOLGIES
3 SHIMON ISRAELI STREET

IL

00-50-9B (hex) SWITCHCORE AB
00509B (base 16) SWITCHCORE AB
POSITIONEN 153

SE

00-50-7E (hex) NEWER TECHNOLOGY
00507E (base 16) NEWER TECHNOLOGY
4848 WEST IRVING ST.
WICHITA KS 67209-2621
US

00-50-55 (hex) DOMS A/S
005055 (base 16) DOMS A/S
FORMERVANGEN 28

DK

00-50-72 (hex) CORVIS CORPORATION
005072 (base 16) CORVIS CORPORATION
8320 GUILFORD ROAD
COLUMBIA MD 21046
US

00-50-CE (hex) LG INTERNATIONAL CORP.
0050CE (base 16) LG INTERNATIONAL CORP.
LG TWIN TOWERS
SEOUL, 150-606
KR

00-50-F7 (hex) VENTURE MANUFACTURING (SINGAPORE) LTD.
0050F7 (base 16) VENTURE MANUFACTURING (SINGAPORE) LTD.

#05-01 Techplace II 569873
SG

00-50-19
(hex) SPRING TIDE NETWORKS, INC.
005019 (base 16) SPRING TIDE NETWORKS, INC.
85 SWANSON ROAD
BOXBOROUGH MA 01719
US

00-50-1F (hex) MRG SYSTEMS, LTD.
00501F (base 16) MRG SYSTEMS, LTD.
WILLOW HOUSE, SLAD ROAD
GLOS. GL5 1QG England
GB

00-50-43 (hex) MARVELL SEMICONDUCTOR, INC.
005043 (base 16) MARVELL SEMICONDUCTOR, INC.
645 ALMANOR AVENUE
SUNNYVALE CA 94086
US

00-50-FA (hex) OXTEL, LTD.
0050FA (base 16) OXTEL, LTD.
THE MARKET PLACE
0X11 7LE England
GB

00-50-1B (hex) ABL CANADA, INC.
00501B (base 16) ABL CANADA, INC.
8550 COTE DE LIESSE
ST-LAURENT (QUEBEC) H4T 1H2
CA

00-50-FD (hex) VISIONCOMM CO., LTD.
0050FD (base 16) VISIONCOMM CO., LTD.
4, 5F, DAEWON B/D
YONGSAN-GU, SEOUL

KR

00-50-BF (hex) Metalligence Technology Corp.
0050BF (base 16) Metalligence Technology Corp.
NO.9, PARK AVENUE II
HSIN-CHU
TW

00-50-B8 (hex) INOVA
COMPUTERS GMBH & CO. KG
0050B8 (base 16) INOVA COMPUTERS GMBH & CO. KG
SUDETENSTRASSE 5
87600 KAUFBEUREN
DE

00-50-5B (hex) KAWASAKI LSI U.S.A., INC.
00505B (base 16) KAWASAKI LSI U.S.A., INC.
2570 NORTHFIRST STREET
SAN JOSE CA 95131
US

00-90-38 (hex) FOUNTAIN TECHNOLOGIES, INC.
009038 (base 16) FOUNTAIN TECHNOLOGIES, INC.
50 RANDOLPH ROAD
SOMERSET NJ 08873
US

00-90-B0 (hex) VADEM
0090B0 (base 16) VADEM
1960 ZANKER RD
SAN JOSE CA 95112
US

00-90-EF (hex) INTEGRIX, INC.
0090EF (base 16) INTEGRIX, INC.
2001 CORPORATE CENTER DRIVE
NEWBURY PARK CA 91320
US

00-90-C5 (hex) INTERNET MAGIC, INC.
0090C5 (base 16) INTERNET MAGIC, INC.
6450 LUSK BLVD.-STE. #E-201
SAN DIEGO CA 92121
US

00-90-8C (hex) ETREND ELECTRONICS, INC.
00908C (base 16) ETREND ELECTRONICS, INC.
2F, 22 INDUSTRY E. 9TH ROAD

TW

00-90-48 (hex) ZEAL CORPORATION
009048
(base 16) ZEAL CORPORATION
301, HIRAIKE
NAGAKUTE-CHO, AICHI-PREF. 480-1155
JP

00-90-07 (hex) DOMEX TECHNOLOGY CORP.
009007 (base 16) DOMEX TECHNOLOGY CORP.
NO. 2, TECHNOLOGY RD. 1
HSINCHU
TW

00-50-52 (hex) TIARA NETWORKS, INC.
005052 (base 16) TIARA NETWORKS, INC.
113 FOORIER AVENUE
FREMONT CA 94539
US

00-50-64 (hex) CAE ELECTRONICS
005064 (base 16) CAE ELECTRONICS
P.O. BOX 1800
ST. LAURENT, QUEBEC H4L 4X4
CA

00-50-27 (hex) GENICOM CORPORATION
005027 (base 16) GENICOM CORPORATION
900 CLOPPER ROAD - STE. #110
GAITHERSBURG MD 20878
US

00-50-5A (hex) NETWORK ALCHEMY, INC.
00505A (base 16) NETWORK ALCHEMY, INC.
1521.5 PACIFIC AVENUE
SANTA CRUZ CA 95060
US

00-50-39 (hex) MARINER NETWORKS
005039 (base 16) MARINER NETWORKS
1585 S. MANCHESTER AVE.
ANAHEIM CA 92802-2907
US

00-50-95 (hex) PERACOM NETWORKS
005095 (base

16) PERACOM NETWORKS
13000 WESTON PARKWAY
CARY NC 27513
US

00-90-3D (hex) BIOPAC SYSTEMS, INC.
00903D (base 16) BIOPAC SYSTEMS, INC.
42 AERO CAMINO
SANTA BARBARA CA 93117
US

00-90-57 (hex) AANetcom, Inc.
009057 (base 16) AANetcom, Inc.
4949 LIBERTY LANE - STE. #200
ALLENTOWN PA 18106-9015
US

00-90-83 (hex) TURBO COMMUNICATION, INC.
009083 (base 16) TURBO COMMUNICATION, INC.
4F-2, NO. 171, SUNG-TEH ROAD
TAIPEI
TW

00-90-00 (hex) DIAMOND MULTIMEDIA
009000 (base 16) DIAMOND MULTIMEDIA
312 SE STONEMILL DRIVE
VANCOUVER WA 98684
US

00-90-54 (hex) INNOVATIVE SEMICONDUCTORS, INC
009054 (base 16) INNOVATIVE SEMICONDUCTORS, INC
2570 W. EL CAMINO REAL
MOUNTAIN VIEW CA 94040
US

00-90-6E (hex) PRAXON, INC.
00906E (base 16) PRAXON, INC.
1700 DELL AVENUE
CAMPBELL CA 95008
US

00-90-C0 (hex) K.J. LAW ENGINEERS, INC.
0090C0 (base 16) K.J. LAW
ENGINEERS, INC.
42300 W. NINE MILE ROAD
NOVI MI 48375
US

00-90-C4 (hex) JAVELIN SYSTEMS, INC.
0090C4 (base 16) JAVELIN SYSTEMS, INC.
1881 LANGLEY AVE.
IRVINE CA 92614
US

00-90-B9 (hex) BERAN INSTRUMENTS LTD.
0090B9 (base 16) BERAN INSTRUMENTS LTD.
HATCHMOOR INDUSTRIAL ESTATE
N DEVON EX38 7HP
GB

00-90-A5 (hex) SPECTRA LOGIC
0090A5 (base 16) SPECTRA LOGIC
1700 N. 55TH STREET
BOULDER CO 80301
US

00-90-A3 (hex) Corecess Inc.
0090A3 (base 16) Corecess Inc.
135-726, Keopyung B-Town 1F, 203, Nonhyu
Seoul
KR

00-90-29 (hex) CRYPTO AG
009029 (base 16) CRYPTO AG
P.O. BOX
CH-6301 Zug
CH

00-90-2D (hex) DATA ELECTRONICS (AUST.) PTY, LTD.
00902D (base 16) DATA ELECTRONICS (AUST.) PTY, LTD.
7 SEISMIC COURT
VICTORIA 3178
AU

00-90-D4 (hex) BindView Development Corp.
0090D4 (base 16) BindView Development Corp.
3355 WEST ALABAMA #1200
HOUSTON
TX 77098
US

00-90-D7 (hex) NetBoost Corp.
0090D7 (base 16) NetBoost Corp.
390 CAMBRIDGE AVENUE
PALO ALTO CA 94306-1506
US

00-90-1F (hex) ADTEC PRODUCTIONS, INC.
00901F (base 16) ADTEC PRODUCTIONS, INC.
408 RUSSELL STREET
NASHVILLE TN 37206
US

00-90-82 (hex) FORCE INSTITUTE
009082 (base 16) FORCE INSTITUTE
PARK ALLE 345
DK-2605 BROENDBY
DK

00-90-41 (hex) APPLIED DIGITAL ACCESS
009041 (base 16) APPLIED DIGITAL ACCESS
9855 SCRANTON ROAD
SAN DIEGO CA 92121
US

00-90-24 (hex) PIPELINKS, INC.
009024 (base 16) PIPELINKS, INC.
2710 WALSH AVE., STE #300
SANTA CLARA CA 95051
US

00-90-3A (hex) NIHON MEDIA TOOL INC.
00903A (base 16) NIHON MEDIA TOOL INC.
1875 OYAMA-CHO
MIE 512-1102
JP

00-90-B2 (hex) AVICI SYSTEMS INC.
0090B2 (base 16) AVICI SYSTEMS INC.
12 ELIZABETH DRIVE
CHELMSFORD MA 01824
US

00-90-B6 (hex) FIBEX
SYSTEMS
0090B6 (base 16) FIBEX SYSTEMS
5350 OLD REDWOOD HIGHWAY
PETALUMA CA 94954
US

00-90-63 (hex) COHERENT COMMUNICATIONS SYSTEMS CORPORATION
009063 (base 16) COHERENT COMMUNICATIONS SYSTEMS CORPORATION
45085 UNIVERSITY DRIVE
ASHBURN VA 20147

US

00-90-11 (hex) WAVTrace, Inc.
009011 (base 16) WAVTrace, Inc.
1555 132ND AVE. NE
BELLEVUE WA 98005
US

00-90-65 (hex) FINISAR CORPORATION
009065 (base 16) FINISAR CORPORATION
1389 Moffett Park Dr
Sunnyvale CA 94089
US

00-10-D3 (hex) GRIPS ELECTRONIC GMBH
0010D3 (base 16) GRIPS ELECTRONIC GMBH
NIESENBERGERGASSE 37
A-8020 GRAZ
AT

00-10-FB (hex) ZIDA TECHNOLOGIES LIMITED
0010FB (base 16) ZIDA TECHNOLOGIES LIMITED
8/F BLOCK A GOODVIEW INDUSTRIAL BUILDIN
TUEN MUN NT
HK

00-90-62 (hex) ICP VORTEX COMPUTERSYSTEME GmbH
009062 (base 16) ICP VORTEX COMPUTERSYSTEME GmbH
FALTERSTRASSE 51-53
D 74223 FLEIN

DE

00-90-C3 (hex) TOPIC SEMICONDUCTOR CORP.
0090C3 (base 16) TOPIC SEMICONDUCTOR CORP.
11F-1, NO. 2, WU-LIN RD.
HSIN-CHU
TW

00-90-5A (hex) DEARBORN GROUP, INC.
00905A (base 16) DEARBORN GROUP, INC.
33604 West 8 Mile Rd
Farmington Hills MI 48335
US

00-90-EC (hex) PYRESCOM
0090EC (base 16) PYRESCOM
3 ALLEE DU MOULIN

66680 CANOHES
FR

00-10-53 (hex) COMPUTER TECHNOLOGY CORP.
001053 (base 16) COMPUTER TECHNOLOGY CORP.
50 W. TECHNECENTER DRIVE
MILFORD OH 45150
US

00-10-ED (hex) SUNDANCE TECHNOLOGY, INC.
0010ED (base 16) SUNDANCE TECHNOLOGY, INC.
20111 STEVENS CREEK BLVD.
CUPERTINO CA 95014
US

00-10-9D (hex) CLARINET SYSTEMS, INC.
00109D (base 16) CLARINET SYSTEMS, INC.
1415 KOLL CIRCLE #101
SAN JOSE CA 95112
US

00-10-0E (hex) MICRO LINEAR COPORATION
00100E (base 16) MICRO LINEAR COPORATION
2092 CONCOURSE DRIVE
SAN JOSE CA
95131
US

00-90-0B (hex) LANNER ELECTRONICS, INC.
00900B (base 16) LANNER ELECTRONICS, INC.
8F-4, NO. 77, SEC. 1
TAIPEI HSIEN
TW

00-90-61 (hex) PACIFIC RESEARCH & ENGINEERING CORPORATION
009061 (base 16) PACIFIC RESEARCH & ENGINEERING CORPORATION
2070 LAS PALMAS DRIVE
CARLSBAD CA 92009
US

00-90-CE (hex) avateramedical Mechatronics GmbH
0090CE (base 16) avateramedical Mechatronics GmbH
Gewerbepark „Am Wald“ 4
ILMENAU D-98693
DE

00-10-6C (hex) EDNT GmbH
00106C (base 16) EDNT GmbH

Werner-von-Siemens-Str. 7
64625 Bensheim
DE

00-10-E9 (hex) RAIDTEC LTD.
0010E9 (base 16) RAIDTEC LTD.
CASTLE ROAD
Little Island County Cork
IE

00-10-03 (hex) IMATRON, INC.
001003 (base 16) IMATRON, INC.
389 OYSTER POINT BLVD.
SO. SAN FRANCISCO CA 94080
US

00-10-71 (hex) ADVANET INC.
001071 (base 16) ADVANET INC.
3-20-8 NODA
OKAYAMI 700
JP

00-90-A8
(hex) NineTiles Networks, Ltd.
0090A8 (base 16) NineTiles Networks, Ltd.
9 Station Road
Waterbeach Cambridge CB5 9HT
GB

00-90-15 (hex) CENTIGRAM COMMUNICATIONS CORP.
009015 (base 16) CENTIGRAM COMMUNICATIONS CORP.
91 EAST TASMAN DRIVE
SAN JOSE CA 95134
US

00-90-95 (hex) UNIVERSAL AVIONICS
009095 (base 16) UNIVERSAL AVIONICS
11351 WILLOWS ROAD NE
REDMOND WA 98052-2552
US

00-90-DF (hex) MITSUBISHI CHEMICAL AMERICA, INC.
0090DF (base 16) MITSUBISHI CHEMICAL AMERICA, INC.
445 INDIO WAY
SUNNYVALE CA 94086
US

00-90-F6 (hex) ESCALATE NETWORKS, INC.

0090F6 (base 16) ESCALATE NETWORKS, INC.
6 HUGHES
IRVINE CA 92617
US

00-10-2A (hex) ZF MICROSYSTEMS, INC.
00102A (base 16) ZF MICROSYSTEMS, INC.
1052 ELWELL COURT
PALO ALTO CA 94303-4307
US

00-10-E5 (hex) SOLECTRON TEXAS
0010E5 (base 16) SOLECTRON TEXAS
12455 RESEARCH BLVD. M/S 2205
AUSTIN
TX 78759
US

00-10-3F (hex) TOLLGRADE COMMUNICATIONS, INC.
00103F (base 16) TOLLGRADE COMMUNICATIONS, INC.
493 NIXON ROAD
CHESWICK PA 15024
US

00-10-CD (hex) INTERFACE CONCEPT
0010CD (base 16) INTERFACE CONCEPT
3 VENELLE de KERGOS
29000 QUIMPER
FR

00-10-56 (hex) SODICK CO., LTD.
001056 (base 16) SODICK CO., LTD.
3-12-1 NAKAMACHIDAI
TSUZUKI-KU, YOKOHAMA KANAGAWA 224
JP

00-10-61 (hex) HOSTLINK CORP.
001061 (base 16) HOSTLINK CORP.
10F-1, NO. 181
HSI-CHIH, TAIPEI
TW

00-10-99 (hex) InnoMedia, Inc.
001099 (base 16) InnoMedia, Inc.
4800 GREAT AMERICA PARKWAY
SANTA CLARA CA 95054
US

00-10-C8 (hex) COMMUNICATIONS ELECTRONICS SECURITY GROUP
0010C8 (base 16) COMMUNICATIONS ELECTRONICS SECURITY GROUP
10/4W22 FIDDLERS GREEN LANE
Benhall, Cheltenham Glouster GL52 5AJ
GB

00-10-86 (hex) ATTO Technology, Inc.
001086 (base 16) ATTO Technology,
Inc.
155 Crosspoint Pkwy.
Amherst NY 14068
US

00-10-F3 (hex) Nexcom International Co., Ltd.
0010F3 (base 16) Nexcom International Co., Ltd.
18F, No. 716, Chung-Cheng Road,
Taipei Hsien 235,
TW

00-10-DF (hex) RISE COMPUTER INC.
0010DF (base 16) RISE COMPUTER INC.
9F, NO. 306-3, TATUNG RD.
TAIPEI HSIEN
TW

00-10-72 (hex) GVN TECHNOLOGIES, INC.
001072 (base 16) GVN TECHNOLOGIES, INC.
8200 BRYAN DAIRY ROAD
LARGO FL 33777
US

00-10-DA (hex) Kollmorgen Corp
0010DA (base 16) Kollmorgen Corp
33 S.LA PATERA LN
SANTA BARBARA CA 93117
US

00-10-E4 (hex) NSI CORPORATION
0010E4 (base 16) NSI CORPORATION
P.O. BOX 635
WILSONVILLE OR 97070
US

00-10-88 (hex) AMERICAN NETWORKS INC.
001088 (base 16) AMERICAN NETWORKS INC.
6800 ORANGETHORPE AVE. #A
BUENA PARK CA 90620
US

00-10-22 (hex) SatCom Media Corporation
001022 (base 16) SatCom Media Corporation
3255-7
SCOTT BLVD.
SANTA CLARA CA 95054
US

00-10-A0 (hex) INNOVEX TECHNOLOGIES, INC.
0010A0 (base 16) INNOVEX TECHNOLOGIES, INC.
KEYSTONE COMMONS
TURTLE CREEK PA 15145
US

00-10-16 (hex) T.SQWARE
001016 (base 16) T.SQWARE
6, PARC ARIANE
78284 GUYANCOURT CEDEX
FR

00-10-90 (hex) CIMETRICS, INC.
001090 (base 16) CIMETRICS, INC.
55 TEMPLE PLACE
BOSTON MA 02111
US

00-10-F5 (hex) AMHERST SYSTEMS, INC.
0010F5 (base 16) AMHERST SYSTEMS, INC.
30 WILSON ROAD
BUFFALO NY 14221
US

00-10-3D (hex) PHASECOM, LTD.
00103D (base 16) PHASECOM, LTD.
P.O. BOX 45017
JERUSALEM 91450
IL

00-10-EA (hex) ADEPT TECHNOLOGY
0010EA (base 16) ADEPT TECHNOLOGY
150 ROSE ORCHARD WAY
SAN JOSE CA 95134
US

00-10-AE (hex) SHINKO ELECTRIC INDUSTRIES CO.
0010AE (base 16) SHINKO ELECTRIC INDUSTRIES CO.
80 OSHIMADA-MACHI
NAGANO-SHI 381-22

JP

00-10-96
(hex) TRACEWELL SYSTEMS, INC.
001096 (base 16) TRACEWELL SYSTEMS, INC.
567 ENTERPRISE DRIVE
WESTERVILLE OH 43081
US

00-10-82 (hex) JNA TELECOMMUNICATIONS LIMITED
001082 (base 16) JNA TELECOMMUNICATIONS LIMITED
16 SMITH ST, CHATSWOOD
NSW 2067
AU

00-10-98 (hex) STARNET TECHNOLOGIES, INC.
001098 (base 16) STARNET TECHNOLOGIES, INC.
2210 O'TOOLE AVE.
SAN JOSE CA 95131
US

00-10-68 (hex) COMOS TELECOM
001068 (base 16) COMOS TELECOM
SAEHAN B/D/, 27-1 SUPYO-DONG
CHUNG-GU, SEOUL (100-230)
KR

00-10-42 (hex) Alacritech, Inc.
001042 (base 16) Alacritech, Inc.
1995 N. First Street
San Jose CA 95112
US

00-10-49 (hex) ShoreTel, Inc
001049 (base 16) ShoreTel, Inc
960 Stewart Drive
Sunnyvale CA 94085
US

00-10-5E (hex) Spirent plc, Service Assurance Broadband
00105E (base 16) Spirent plc, Service Assurance Broadband
5280 Corporate Dr
Ballenger
Creek MD 21703
US

00-10-AF (hex) TAC SYSTEMS, INC.
0010AF (base 16) TAC SYSTEMS, INC.

1035 PUTMAN DRIVE--STE.
HUNTSVILLE AL 35816-2271
US

00-10-8C (hex) Fujitsu Services Ltd
00108C (base 16) Fujitsu Services Ltd
SOLIHULL PARKWAY
BIRMINGHAM B37 7YU England 0000
GB

00-10-E1 (hex) S.I. TECH, INC.
0010E1 (base 16) S.I. TECH, INC.
P.O. BOX 609
GENEVA IL 60134
US

00-10-BB (hex) DATA & INFORMATION TECHNOLOGY
0010BB (base 16) DATA & INFORMATION TECHNOLOGY
TECHNOLOGY HOUSE
BOTTESFORD, NOTTINGHAM NG13 OEL
GB

00-10-20 (hex) Hand Held Products Inc
001020 (base 16) Hand Held Products Inc
700 Visions Drive
Skaneateles Falls NY 13153-0208
US

00-10-7E (hex) BACHMANN ELECTRONIC GmbH
00107E (base 16) BACHMANN ELECTRONIC GmbH
KREUZAECKERWEG 33
A 6806 FELDKIRCH
AT

00-10-3A (hex) DIAMOND NETWORK TECH
00103A (base 16) DIAMOND NETWORK TECH
P.O. BOX
84525
GREENSIDE 2034
ZA

00-10-04 (hex) THE BRANTLEY COILE COMPANY,INC
001004 (base 16) THE BRANTLEY COILE COMPANY,INC
545 RESEARCH DRIVE
ATHENS GA 30605
US

00-10-EF (hex) DBTEL INCORPORATED

0010EF (base 16) DBTEL INCORPORATED
NO.29 TZU-CHIANG ST.,
TU-CHENG TAIPEI
TW

00-10-76 (hex) EUREM GmbH
001076 (base 16) EUREM GmbH
JULICHER STR. 338B
D-52070 AACHEN
DE

00-10-C4 (hex) MEDIA GLOBAL LINKS CO., LTD.
0010C4 (base 16) MEDIA GLOBAL LINKS CO., LTD.
580-16, horikawa-cho,saiwai-ku
Kawasaki, Kanagawa 212-0013
JP

00-10-FE (hex) DIGITAL EQUIPMENT CORPORATION
0010FE (base 16) DIGITAL EQUIPMENT CORPORATION
301 ROCKRIMMON BLVD, SOUTH
COLORADO SPRINGS CO 80919
US

00-10-BC (hex) Aastra Telecom
0010BC (base 16) Aastra Telecom
8 Federal Street
Billerica MA 01821-3570
US

00-10-58 (hex) ArrowPoint Communications
001058 (base 16) ArrowPoint
Communications
235 LITTLETON ROAD
WESTFORD MA 01886
US

00-10-0F (hex) INDUSTRIAL CPU SYSTEMS
00100F (base 16) INDUSTRIAL CPU SYSTEMS
111-D W. DYER ROAD
SANTA ANA CA 92707
US

00-10-F7 (hex) IRIICHI TECHNOLOGIES Inc.
0010F7 (base 16) IRIICHI TECHNOLOGIES Inc.
1-26-7 CHUO, NAKANA-KU
TOKYO 164
JP

00-10-AB (hex) KOITO ELECTRIC INDUSTRIES, LTD.
0010AB (base 16) KOITO ELECTRIC INDUSTRIES, LTD.
100 MAEDA-CHO, TOTSUKA-KU
YOKOHAMA 244 KANAGAWA 244-8569
JP

00-10-10 (hex) INITIO CORPORATION
001010 (base 16) INITIO CORPORATION
2188 B DEL FRANCO STREET
SAN JOSE CA 95118
US

00-10-F2 (hex) ANTEC
0010F2 (base 16) ANTEC
4920 AVALON RIDGE PKWY
NORCROSS GA 30071
US

00-E0-07 (hex) Avaya ECS Ltd
00E007 (base 16) Avaya ECS Ltd
Unit 1 Sterling Court, Mundells
Welwyn Garden City Hert AL7 1LZ
GB

00-10-BE (hex) MARCH NETWORKS CORPORATION
0010BE (base 16) MARCH
NETWORKS CORPORATION
303 Terry Fox Drive
OTTAWA, ONTARIO K2K 3J1
CA

00-E0-D3 (hex) DATENTECHNIK GmbH
00E0D3 (base 16) DATENTECHNIK GmbH
THERESIANUMGASSE 11
A-1040 WIEN
AT

00-E0-43 (hex) VitalCom
00E043 (base 16) VitalCom
15222 DEL AMO AVE.
TUSTIN CA 92780
US

00-E0-B3 (hex) EtherWAN Systems, Inc.
00E0B3 (base 16) EtherWAN Systems, Inc.
14 HUGHES, STE.B-105
IRVINE CA 92618
US

00-E0-ED (hex) SILICOM, LTD.
00E0ED (base 16) SILICOM, LTD.
8 HANAGER ST.
KFAR-SAVA 44000
IL

00-E0-BF (hex) TORRENT NETWORKING TECHNOLOGIES CORP.
00E0BF (base 16) TORRENT NETWORKING TECHNOLOGIES CORP.
8181 PROFESSIONAL PLACE
LANDOVER MD 20785
US

00-E0-E3 (hex) SK-ELEKTRONIK GMBH
00E0E3 (base 16) SK-ELEKTRONIK GMBH
HEMMELRATHERWEG 201
51377 LEVERKUSEN
DE

00-E0-C6 (hex) LINK2IT, L.L.C.
00E0C6 (base 16) LINK2IT, L.L.C.
4256 BECK AVENUE
STUDIO
CITY CA 91604
US

00-E0-E5 (hex) CINCO NETWORKS, INC.
00E0E5 (base 16) CINCO NETWORKS, INC.
6601 KOLL CENTER PARK WAY
PLEASANTON CA 94566
US

00-E0-45 (hex) TOUCHWAVE, INC.
00E045 (base 16) TOUCHWAVE, INC.
Maglebjergvej 5B
DK-2800 Lyngby
DK

00-E0-40 (hex) DeskStation Technology, Inc.
00E040 (base 16) DeskStation Technology, Inc.
15729 COLLEGE BLVD.
LENEXA KS 66219
US

00-E0-1A (hex) COMTEC SYSTEMS. CO., LTD.
00E01A (base 16) COMTEC SYSTEMS. CO., LTD.
404-9 CHOUNGCHEN-DONG
BUPYOUNG-KU, INCHON

KR

00-E0-81 (hex) TYAN COMPUTER CORP.
00E081 (base 16) TYAN COMPUTER CORP.
3288 LAUREVIEW CT
Fremont CA 95035
US

00-E0-57 (hex) HAN MICROTELECOM. CO., LTD.
00E057 (base 16) HAN MICROTELECOM. CO., LTD.
FASHION BD., 3RD FR,
DONG SEO-GU, TAEJON KOREA 302-173
KR

00-E0-61 (hex) EdgePoint Networks, Inc.
00E061 (base 16) EdgePoint Networks, Inc.
2238
MARTIN AVENUE
SANTA CLARA CA 95050
US

00-E0-B8 (hex) GATEWAY 2000
00E0B8 (base 16) GATEWAY 2000
610 GATEWAY DRIVE
N. SIOUX CITY SD 57049
US

00-E0-7C (hex) METTLER-TOLEDO, INC.
00E07C (base 16) METTLER-TOLEDO, INC.
1150 DEARBORN DRIVE
WORTHINGTON OH 43085
US

00-E0-26 (hex) Redlake MASD LLC
00E026 (base 16) Redlake MASD LLC
3440 E. Pritannia Dr.
Tuscon AZ 85706
US

00-E0-20 (hex) TECNOMEN OY
00E020 (base 16) TECNOMEN OY
P.O. BOX 93
FIN-02271 ESPOO
FI

00-E0-0D (hex) RADIANT SYSTEMS
00E00D (base 16) RADIANT SYSTEMS
1000 ALDERMAN DR.

ALPHARETTA GA 30202
US

00-E0-DC (hex) NEXWARE CORP.
00E0DC (base 16) NEXWARE CORP.
825 STEWART DR., STE #4
SUNNYVALE CA 94086
US

00-E0-37 (hex) CENTURY CORPORATION
00E037 (base 16) CENTURY CORPORATION
2-28-5, Taito
TAITO-KU, TOKYO 101
JP

00-E0-C2 (hex) NECSY S.p.A.
00E0C2 (base
16) NECSY S.p.A.
VIA LISBONA 28
35020 PADOVA
IT

00-E0-9B (hex) ENGAGE NETWORKS, INC.
00E09B (base 16) ENGAGE NETWORKS, INC.
316 N. MILWAUKEE ST., STE.#214
MILWAUKEE WI 53202
US

00-E0-FB (hex) LEIGHTRONIX, INC.
00E0FB (base 16) LEIGHTRONIX, INC.
2330 JARCO DR.
HOLT MI 48842
US

00-E0-53 (hex) CELLPORT LABS, INC.
00E053 (base 16) CELLPORT LABS, INC.
885 ARAPAHOE AVE.,
BOULDER CO 80302
US

00-E0-BC (hex) SYMON COMMUNICATIONS, INC.
00E0BC (base 16) SYMON COMMUNICATIONS, INC.
10701 CORPORATE DR.-STE. #290
STAFFORD TX 77477
US

00-E0-7E (hex) WALT DISNEY IMAGINEERING
00E07E (base 16) WALT DISNEY IMAGINEERING

1401 FLOWER ST.
GLENDALE CA 91221
US

00-E0-B2 (hex) TELMAX COMMUNICATIONS CORP.
00E0B2 (base 16) TELMAX COMMUNICATIONS CORP.
46515 LANDING PARKWAY
FREMONT CA 94538
US

00-E0-EC (hex) CELESTICA INC.
00E0EC (base 16) CELESTICA
INC.
1900-5140 Yonge Street PO Box 42
Toronto Ontario M2N 6L7
CA

00-E0-6C (hex) Ultra Electronics Command & Control Systems
00E06C (base 16) Ultra Electronics Command & Control Systems
Knaves Beech Business Centre
Hemel Hemstead Herts England HP2 7BW
GB

00-60-1D (hex) LUCENT TECHNOLOGIES
00601D (base 16) LUCENT TECHNOLOGIES
101 CRAWFORDS CORNER RD.
HOLMDEL NJ 07733
US

00-60-7B (hex) FORE SYSTEMS, INC.
00607B (base 16) FORE SYSTEMS, INC.
1000 FORE DRIVE
WARRENDALE PA 15086
US

00-E0-87 (hex) LeCroy - Networking Productions Division
00E087 (base 16) LeCroy - Networking Productions Division
25 BURLINGTON MALL ROAD
BURLINGTON MA 01803
US

00-E0-41 (hex) CSPI
00E041 (base 16) CSPI
43 Manning Rd.
Billerica MA 01821
US

00-E0-E2 (hex) INNOVA CORP.

00E0E2 (base 16) INNOVA CORP.
3325 SOUTH 116TH STREET
SEATTLE WA 98168
US

00-E0-82 (hex) ANERMA
00E082
(base 16) ANERMA
SCHAAPSDRIES 25
2260 WESTERLO
BE

00-60-C9 (hex) ControlNet, Inc.
0060C9 (base 16) ControlNet, Inc.
747 CAMDEN, STE. A
CAMPBELL CA 95008
US

00-60-5F (hex) NIPPON UNISOFT CORPORATION
00605F (base 16) NIPPON UNISOFT CORPORATION
BR NINGYOCHO 1,2-13-9
TOKYO 103
JP

00-60-91 (hex) FIRST PACIFIC NETWORKS, INC.
006091 (base 16) FIRST PACIFIC NETWORKS, INC.
871 FOX LANE
SAN JOSE CA 95131
US

00-E0-77 (hex) WEBGEAR, INC.
00E077 (base 16) WEBGEAR, INC.
1263 OAKMEAD PKWY
SUNNYVALE CA 94080
US

00-E0-56 (hex) HOLONTECH CORPORATION
00E056 (base 16) HOLONTECH CORPORATION
2039 SAMARITAN DRIVE
SAN JOSE CA 95124
US

00-E0-2F (hex) MCNS HOLDINGS, L.P.
00E02F (base 16) MCNS HOLDINGS, L.P.
TCI, INC.-TECHNOLOGY VENTURES
DENVER CO 80217-5630
US

00-E0-31 (hex) HAGIWARA ELECTRIC CO., LTD.
00E031 (base 16) HAGIWARA ELECTRIC
CO., LTD.
7, SHIMOKOFUKADA, ASADA-CHO
NISSHIN-SHI, AICHI 470-01
JP

00-E0-0B (hex) ROOFTOP COMMUNICATIONS CORP.
00E00B (base 16) ROOFTOP COMMUNICATIONS CORP.
468 PACO DRIVE
LOS ALTOS CA 94024
US

00-E0-99 (hex) SAMSON AG
00E099 (base 16) SAMSON AG
WEISMULLERSTR. 3
D-60314 FRANKFURT
DE

00-E0-78 (hex) BERKELEY NETWORKS
00E078 (base 16) BERKELEY NETWORKS
683 RIVER OAKS PARKWAY
SAN JOSE CA 95134
US

00-E0-4A (hex) ZX Technologies, Inc
00E04A (base 16) ZX Technologies, Inc
760 Spanish Oak Trail
Dripping Springs TX 78620
US

00-E0-7A (hex) MIKRODIDAKT AB
00E07A (base 16) MIKRODIDAKT AB
Skiffervägen 48
LUND SE22478
SE

00-60-D8 (hex) ELMIC SYSTEMS, INC.
0060D8 (base 16) ELMIC SYSTEMS, INC.
DAI-ICHI SEIMEI BLDG.
YOKOHAMA 231
JP

00-60-EF (hex) FLYTECH TECHNOLOGY CO., LTD.
0060EF (base 16) FLYTECH TECHNOLOGY CO., LTD.
No.168 Sing-ai
Rd., Neihu District
TAIPEI CITY 114

TW

00-60-85 (hex) Storage Concepts
006085 (base 16) Storage Concepts
14352 Chamber Road
Tustin CA 92780
US

00-60-11 (hex) CRYSTAL SEMICONDUCTOR CORP.
006011 (base 16) CRYSTAL SEMICONDUCTOR CORP.
P.O. BOX 17847
AUSTIN TX 78760
US

00-60-FA (hex) EDUCATIONAL TECHNOLOGY RESOURCES, INC.
0060FA (base 16) EDUCATIONAL TECHNOLOGY RESOURCES, INC.
1742 CHURCH STREET
HOLBROOK NY 11741
US

00-60-DA (hex) Red Lion Controls, LP
0060DA (base 16) Red Lion Controls, LP
20 Willow Springs Circle
York NY 17402
US

00-60-56 (hex) NETWORK TOOLS, INC.
006056 (base 16) NETWORK TOOLS, INC.
2975 BOWERS AVENUE, #202
SANTA CLARA CA 95051-0955
US

00-60-0C (hex) Eurotech Inc.
00600C (base 16) Eurotech Inc.
10260 Old Columbia Road
COLUMBIA MD 21046
US

00-60-32 (hex) I-CUBE, INC.
006032 (base 16) I-CUBE, INC.
2328-C WALSH
AVENUE
SANTA CLARA CA 95014
US

00-60-33 (hex) ACUITY IMAGING, INC.
006033 (base 16) ACUITY IMAGING, INC.
9 TOWNSEND WEST

NASHUA NH 03063
US

00-60-13 (hex) NETSTAL MASCHINEN AG
006013 (base 16) NETSTAL MASCHINEN AG
INDUSTRIESTRASSE
CH-8752 NAEFELS
CH

00-60-22 (hex) VICOM SYSTEMS, INC.
006022 (base 16) VICOM SYSTEMS, INC.
1961 LANDINGS DRIVE
MOUNTAIN VIEW CA 94043
US

00-60-EE (hex) APOLLO
0060EE (base 16) APOLLO
3610 BIRCH STREET--STE #100
NEWPORT BEACH CA 92660
US

00-02-88 (hex) GLOBAL VILLAGE COMMUNICATION
000288 (base 16) GLOBAL VILLAGE COMMUNICATION
1144 EAST ARQUES AVE.
SUNNYVALE CA 94086
US

00-60-34 (hex) ROBERT BOSCH GmbH
006034 (base 16) ROBERT BOSCH GmbH
POSTBOX 11 62
D-64701 ERBACH
DE

00-60-50 (hex) INTERNIX INC.
006050 (base 16) INTERNIX INC.
59-10 TAKAKURA-CHO
TOKYO 192
JP

00-60-E0 (hex) AXIOM TECHNOLOGY
CO., LTD.
0060E0 (base 16) AXIOM TECHNOLOGY CO., LTD.
3F, 14, LANE 235
TAIPEI HSIEN
TW

00-60-96 (hex) T.S. MICROTECH INC.
006096 (base 16) T.S. MICROTECH INC.

20818 HIGGINS COURT
TORRANCE CA 90501
US

00-60-43 (hex) iDirect, INC.
006043 (base 16) iDirect, INC.
13865 Sunrise Vally Drive
Herndon VA 20171
US

00-60-3A (hex) QUICK CONTROLS LTD.
00603A (base 16) QUICK CONTROLS LTD.
DURHAM HOUSE, WARWICK COURT
MANCHESTER M24 1AE
GB

00-60-28 (hex) MACROVISION CORPORATION
006028 (base 16) MACROVISION CORPORATION
2830 De La Cruz Boulevard
Santa Clara CA 95050
US

00-60-F0 (hex) JOHNSON & JOHNSON MEDICAL, INC
0060F0 (base 16) JOHNSON & JOHNSON MEDICAL, INC
4110 GEORGE RD.
TAMPA FL 33634
US

00-60-F5 (hex) ICON WEST, INC.
0060F5 (base 16) ICON WEST, INC.
3342 SOUTH 300 EAST
SALT LAKE CITY UT 84115
US

00-60-62 (hex) TELESYNC, INC.
006062
(base 16) TELESYNC, INC.
5555 OAKBROOK PKWY-STE #110
NORCROSS GA 30093
US

00-60-1C (hex) TELXON CORPORATION
00601C (base 16) TELXON CORPORATION
3330 W. MARKET STREET
AKRON OH 44334-0582
US

00-60-AE (hex) TRIO INFORMATION SYSTEMS AB

0060AE (base 16) TRIO INFORMATION SYSTEMS AB
FOGDEVAGEN 4B
S-183 64 TABY
SE

00-60-53 (hex) TOYODA MACHINE WORKS, LTD.
006053 (base 16) TOYODA MACHINE WORKS, LTD.
1-7 KITAJIZOYAMA NODACHOU
KARIYA CITY, AICHI
JO

00-60-E4 (hex) COMPUSERVE, INC.
0060E4 (base 16) COMPUSERVE, INC.
5000 ARLINGTON CENTRE BLVD.
COLUMBUS OH 43220
US

00-60-8F (hex) TEKRAM TECHNOLOGY CO., LTD.
00608F (base 16) TEKRAM TECHNOLOGY CO., LTD.
B1, NO. 17, LANE 159, SEC. 6
TAIPEI
TW

00-60-C4 (hex) SOLITON SYSTEMS K.K.
0060C4 (base 16) SOLITON SYSTEMS K.K.
2-4-3 SHINJUKU, SHINJUKU-KU
TOKYO 160
JP

00-60-A6 (hex) PARTICLE
MEASURING SYSTEMS
0060A6 (base 16) PARTICLE MEASURING SYSTEMS
5475 AIRPORT BLVD.
BOULDER CO 80301
US

00-60-2A (hex) SYMICRON COMPUTER COMMUNICATIONS, LTD.
00602A (base 16) SYMICRON COMPUTER COMMUNICATIONS, LTD.
UNIT 4 GREEN LANE BUSINESS PARK
London SE9 3TL
US

00-A0-37 (hex) Mindray DS USA, Inc.
00A037 (base 16) Mindray DS USA, Inc.
800 Macarthur Blvd.
Mahwah NJ 07430
US

00-A0-4C (hex) INNOVATIVE SYSTEMS & TECHNOLOGIES, INC.
00A04C (base 16) INNOVATIVE SYSTEMS & TECHNOLOGIES, INC.
48511 WARM SPRINGS BLVD.
FREMONT CA 94539
US

00-A0-31 (hex) HAZELTINE CORPORATION, MS 1-17
00A031 (base 16) HAZELTINE CORPORATION, MS 1-17
450 E. PULASKI ROAD
GREENLAWN NY 11740
US

00-A0-41 (hex) INFICON
00A041 (base 16) INFICON
2 Technology Place
E. Syracuse NY 13057
US

00-A0-3C (hex) EG&G NUCLEAR INSTRUMENTS
00A03C (base 16) EG&G NUCLEAR INSTRUMENTS
100 MIDLAND
ROAD
OAK RIDGE TN 37830
US

00-A0-C4 (hex) CRISTIE ELECTRONICS LTD.
00A0C4 (base 16) CRISTIE ELECTRONICS LTD.
BOND'S MILL
GLOUCESTERSHIRE GL10 3RG
GB

00-A0-63 (hex) JRL SYSTEMS, INC.
00A063 (base 16) JRL SYSTEMS, INC.
8305 HWY 71 WEST
AUSTIN TX 78735
US

00-A0-2C (hex) interWAVE Communications
00A02C (base 16) interWAVE Communications
656 BAIR ISLAND BLVD.-STE.#108
REDWOOD CITY CA 94063-2704
US

00-A0-F7 (hex) V.I COMPUTER CORP.
00A0F7 (base 16) V.I COMPUTER CORP.
531 ENCINITAS BLVD--#114
ENCINITAS CA 92024
US

00-A0-90 (hex) TimeStep Corporation
00A090 (base 16) TimeStep Corporation
359 TERRY FOX DRIVE
KANATA, ONTARIO K2K 2E7
CA

00-A0-33 (hex) imc MeBsysteme GmbH
00A033 (base 16) imc MeBsysteme GmbH
VOLTASTRASSE 5
D-13355 BERLIN
DE

00-A0-A9 (hex) NAVTEL COMMUNICATIONS INC.
00A0A9 (base 16) NAVTEL COMMUNICATIONS INC.
55 RENFREW
DRIVE
MARKHAM, ONTARIO L3R 8H3
CA

00-A0-71 (hex) VIDEO LOTTERY TECHNOLOGIES,INC
00A071 (base 16) VIDEO LOTTERY TECHNOLOGIES,INC
2311 SOUTH 7TH AVENUE
BOZEMAN MT 59715
US

00-A0-6D (hex) MANNESMANN TALLY CORPORATION
00A06D (base 16) MANNESMANN TALLY CORPORATION
P.O. BOX 97018
KENT WA 98064-9718
US

00-A0-F6 (hex) AutoGas Systems Inc.
00A0F6 (base 16) AutoGas Systems Inc.
P.O. BOX 6957
ABIOLENE TX 79608
US

00-A0-A7 (hex) VORAX CORPORATION
00A0A7 (base 16) VORAX CORPORATION
1031 EAST DUANE AVENUE, STE H
SUNNYVALE CA 94086
US

00-A0-E2 (hex) Keisokugiken Corporation
00A0E2 (base 16) Keisokugiken Corporation
2021-5 Houshakuji
Shioya-gun Tochigi 329-1233

JP

00-A0-61 (hex) PURITAN BENNETT
00A061 (base 16) PURITAN BENNETT
2200 FARADAY AVENUE
CARLSBAD CA 92008
US

00-60-80 (hex) MICROTRONIX DATACOM LTD.
006080 (base 16) MICROTRONIX DATACOM
LTD.
4056 Meadowbrook Drive, Unit 126
LONDON ONTARIO N6L 1E3
CA

00-60-BE (hex) WEBTRONICS
0060BE (base 16) WEBTRONICS
3B-1 8-2-12
SHINAGAWA-KU TOKYO 141
JP

00-60-BF (hex) MACRAIGOR SYSTEMS, INC.
0060BF (base 16) MACRAIGOR SYSTEMS, INC.
PO BOX 1008
BROOKLINE VILLAGE MA 02147
US

00-A0-EA (hex) ETHERCOM CORP.
00A0EA (base 16) ETHERCOM CORP.
45990 HOTCHKISS ST.
FREEMONT CA 94539
US

00-A0-DC (hex) O.N. ELECTRONIC CO., LTD.
00A0DC (base 16) O.N. ELECTRONIC CO., LTD.
3-20-27, TARUMI
SUITA, OSAKA 564
JP

00-A0-0B (hex) COMPUTEX CO., LTD.
00A00B (base 16) COMPUTEX CO., LTD.
432-13 GOJYOBASHI-HIGASHI 4-CHYOME
HIGASHIYAMAKU, KYOTO-CITY 605
JP

00-60-00 (hex) XYCOM INC.
006000 (base 16) XYCOM INC.
750 N. MAPLE

SALINE MI 48176
US

00-60-45 (hex) PATHLIGHT TECHNOLOGIES
006045 (base 16) PATHLIGHT TECHNOLOGIES
767 WARREN ROAD
ITHACA
NY 14850
US

00-A0-5D (hex) CS COMPUTER SYSTEME GmbH
00A05D (base 16) CS COMPUTER SYSTEME GmbH
ISARSTRASSE 3,
82065 BAIERBRUNN
DE

00-A0-1A (hex) BINAR ELEKTRONIK AB
00A01A (base 16) BINAR ELEKTRONIK AB
MAGNETUAGEN 18

SE

00-A0-88 (hex) ESSENTIAL COMMUNICATIONS
00A088 (base 16) ESSENTIAL COMMUNICATIONS
4374 ALEXANDER BLVD. NE-STE
ALBUQUERQUE NM 87107
US

00-A0-C2 (hex) R.A. SYSTEMS CO., LTD.
00A0C2 (base 16) R.A. SYSTEMS CO., LTD.
1850-3 HIROOKANOMURA

JP

00-A0-81 (hex) ALCATEL DATA NETWORKS
00A081 (base 16) ALCATEL DATA NETWORKS
12502 SUNRISE VALLEY DRIVE
RESTON VA 22096
US

00-A0-6C (hex) SHINDENGEN ELECTRIC MFG. CO., LTD.
00A06C (base 16) SHINDENGEN ELECTRIC MFG. CO., LTD.
10-13, MINAMI-CHO, HANNOU-CITY
SAITAMA 357
JO

00-A0-1F (hex) TRICORD SYSTEMS, INC.
00A01F (base 16) TRICORD SYSTEMS, INC.

2800 NORTHWEST BOULEVARD
PLYMOUTH
MN 55441-2625
US

00-A0-FB (hex) Toray Engineering D Solutions Co., Ltd.
00A0FB (base 16) Toray Engineering D Solutions Co., Ltd.
1-45, OE 1-CHOME
OTSU CITY 520-2141
JP

00-A0-97 (hex) JC INFORMATION SYSTEMS
00A097 (base 16) JC INFORMATION SYSTEMS
4487 TECHNOLOGY DRIVE
FREMONT CA 94538-6343
US

00-A0-73 (hex) COM21, INC.
00A073 (base 16) COM21, INC.
2113 LANDINGS DRIVE
MOUNTAIN VIEW CA 94043
US

00-A0-3A (hex) KUBOTEK CORPORATION
00A03A (base 16) KUBOTEK CORPORATION
56 NISHIAKETA-CHO, HIGASHIKUJO

JP

00-A0-B2 (hex) SHIMA SEIKI
00A0B2 (base 16) SHIMA SEIKI
85, SAKATA WAKAYAMA-CITY

JP

00-A0-4B (hex) TFL LAN INC.
00A04B (base 16) TFL LAN INC.
9F, NO. 499 CHUNG CHENG ROAD
TAIWAN TAIWAN R.O.C.
TW

00-A0-64 (hex) KVB/ANALECT
00A064 (base 16) KVB/ANALECT
9420 JERONIMO ROAD
IRVINE CA 92718
US

00-A0-3E (hex) ATM

FORUM
00A03E (base 16) ATM FORUM
WORLDWIDE HEADQUARTERS
FOSTER CITY CA 94404-1138
US

00-A0-98 (hex) NetApp
00A098 (base 16) NetApp
1395 Crossman Ave
Sunnyvale, CA 94089
US

00-A0-DB (hex) FISHER & PAYKEL PRODUCTION
00A0DB (base 16) FISHER & PAYKEL PRODUCTION
MACHINERY LIMITED

NZ

00-A0-7E (hex) AVID TECHNOLOGY, INC.
00A07E (base 16) AVID TECHNOLOGY, INC.
METROPOLITAN TECHNOLOGY PARK
TEWKSBURY MA 01876
US

00-A0-6F (hex) Color Sentinel Systems, LLC
00A06F (base 16) Color Sentinel Systems, LLC
97 Ridgeland Rd, Suite #2
ROCHESTER NY 14623
US

00-A0-C7 (hex) TADIRAN TELECOMMUNICATIONS
00A0C7 (base 16) TADIRAN TELECOMMUNICATIONS
P.O. BOX 500
PETAH-TIKVA 49104
IL

00-A0-27 (hex) FIREPOWER SYSTEMS, INC.
00A027 (base 16) FIREPOWER SYSTEMS, INC.
190 INDEPENDENCE DRIVE
MENLO PARK CA 94025
US

00-A0-46 (hex) SCITEX CORP. LTD.
00A046 (base
16) SCITEX CORP. LTD.
P.O.BOX 330

IL

00-A0-92 (hex) H. BOLLMANN MANUFACTURERS, LTD
00A092 (base 16) H. BOLLMANN MANUFACTURERS, LTD
26 VICTORIA WAY
ENGLAND
GB

00-A0-8B (hex) ASTON ELECTRONIC DESIGNS LTD.
00A08B (base 16) ASTON ELECTRONIC DESIGNS LTD.
123/127 DEEPCUT BRIDGE ROAD
ENGLAND
GB

00-20-0D (hex) CARL ZEISS
00200D (base 16) CARL ZEISS
POSTFACH 1380

DE

00-20-2D (hex) TAIYO CORPORATION
00202D (base 16) TAIYO CORPORATION
1-2-6 SANNOH, OHTA-KU
143
JP

00-20-91 (hex) J125, NATIONAL SECURITY AGENCY
002091 (base 16) J125, NATIONAL SECURITY AGENCY
9800 SAVAGE ROAD
FT. MEADE MD 20755-6000
US

00-20-BD (hex) NIOBRARA R & D CORPORATION
0020BD (base 16) NIOBRARA R & D CORPORATION
PO BOX 3418
JOPLIN MO 64803-3418
US

00-20-54 (hex) Sycamore Networks
002054 (base 16) Sycamore Networks
220 Mill Rd
Chelmsford MA 01824
US

00-20-A7
(hex) PAIRGAIN TECHNOLOGIES, INC.
0020A7 (base 16) PAIRGAIN TECHNOLOGIES, INC.
14402 FRANKLIN AVENUE
TUSTIN CA 92680-7013

US

00-20-72 (hex) WORKLINK INNOVATIONS
002072 (base 16) WORKLINK INNOVATIONS
2452 ARMSTRONG STREET
LIVERMORE CA 9455O
US

00-20-10 (hex) JEOL SYSTEM TECHNOLOGY CO. LTD
002010 (base 16) JEOL SYSTEM TECHNOLOGY CO. LTD
3-1-2 Musashino
Akishima-shi Tokyo 196-8558
JP

00-20-9F (hex) MERCURY COMPUTER SYSTEMS, INC.
00209F (base 16) MERCURY COMPUTER SYSTEMS, INC.
199 RIVERNECK ROAD
CHELMSFORD MA 01824
US

00-20-CB (hex) PRETEC ELECTRONICS CORP.
0020CB (base 16) PRETEC ELECTRONICS CORP.
39899 BALENTINE DR.
NEWARK CA 94560
US

00-20-EB (hex) CINCINNATI MICROWAVE, INC.
0020EB (base 16) CINCINNATI MICROWAVE, INC.
ONE MICROWAVE PLAZA
CINCINNATI OH 45249
US

00-20-A0 (hex) OA LABORATORY CO., LTD.
0020A0 (base 16) OA LABORATORY
CO., LTD.
228 KAMIMACHIYA KAMAKURA

JP

00-20-75 (hex) MOTOROLA COMMUNICATION ISRAEL
002075 (base 16) MOTOROLA COMMUNICATION ISRAEL
3 KREMENETSKI STREET
TEL-AVIV 61250
IL

00-20-A5 (hex) API ENGINEERING
0020A5 (base 16) API ENGINEERING
2689 POPLARWOOD WAY

SAN JOSE CA 95132
US

00-20-64 (hex) PROTEC MICROSYSTEMS, INC.
002064 (base 16) PROTEC MICROSYSTEMS, INC.
297 LABROSSE
POINTE-CLAIRE, QUEBEC H9R 1A3
CA

00-20-33 (hex) SYNAPSE TECHNOLOGIES, INC.
002033 (base 16) SYNAPSE TECHNOLOGIES, INC.
4822 ALBEMARLE ROAD, #104
CHARLOTTE NC 28205
US

00-20-EA (hex) EFFICIENT NETWORKS, INC.
0020EA (base 16) EFFICIENT NETWORKS, INC.
4201 SPRING VALLEY ROAD
DALLAS TX 75244-3666
US

00-20-CF (hex) TEST & MEASUREMENT SYSTEMS INC
0020CF (base 16) TEST & MEASUREMENT SYSTEMS INC
2045 SITKA COURT
LOVELAND CO 80538
US

00-20-B4 (hex) TERMA ELEKTRONIK
AS
0020B4 (base 16) TERMA ELEKTRONIK AS
HOVMARKEN 4,
DK-8520 LYSTRUP
DK

00-20-E4 (hex) HSING TECH ENTERPRISE CO., LTD
0020E4 (base 16) HSING TECH ENTERPRISE CO., LTD
NO. 2, LANE 128, SEC. 2
TEIPEI,
TW

00-20-A2 (hex) GALCOM NETWORKING LTD.
0020A2 (base 16) GALCOM NETWORKING LTD.
P.O. BOX 1568
RAMAT HASHARON 47113
IL

00-20-31 (hex) Tattile SRL
002031 (base 16) Tattile SRL

AM PESTALOZZIRING 24
D-91058 ERLANGEN
DE

00-20-E2 (hex) INFORMATION RESOURCE ENGINEERING
0020E2 (base 16) INFORMATION RESOURCE ENGINEERING
8029 CORPORATE DRIVE
BALTIMORE MD 21236
US

00-20-07 (hex) SFA, INC.
002007 (base 16) SFA, INC.
1401 MCCORMICK DRIVE
LANDOVER MD 20785
US

00-20-5C (hex) InterNet Systems of Florida, Inc.
00205C (base 16) InterNet Systems of Florida, Inc.
P.O. BOX 578
CRESTVIEW FL 32536
US

00-20-55 (hex) ALTECH CO., LTD.
002055
(base 16) ALTECH CO., LTD.
OHISHI BLDG., 2-23-11
TOKYO 116
JP

00-20-0A (hex) SOURCE-COMM CORP.
00200A (base 16) SOURCE-COMM CORP.
25020 W. AVENUE STANFORD
VALENCIA CA 91355
US

00-20-D0 (hex) VERSALYNX CORPORATION
0020D0 (base 16) VERSALYNX CORPORATION
8950 CARLEY CIRCLE
SAN DIEGO CA 92126
US

00-20-6C (hex) EVERGREEN TECHNOLOGY CORP.
00206C (base 16) EVERGREEN TECHNOLOGY CORP.
231 EMERSON STREET
PALO ALTO CA 94301
US

00-20-5E (hex) CASTLE ROCK, INC.

00205E (base 16) CASTLE ROCK, INC.
20 SOUTH SANTA CRUZ AVE.
LOS GATOS CA 95030
US

00-20-12 (hex) CAMTRONICS MEDICAL SYSTEMS
002012 (base 16) CAMTRONICS MEDICAL SYSTEMS
P.O. BOX 950
HARTLAND WI 53029
US

00-A0-B1 (hex) FIRST VIRTUAL CORPORATION
00A0B1 (base 16) FIRST VIRTUAL CORPORATION
3393 OCTAVIUS DR.-STE.# 102
SANTA CLARA CA 95054
US

00-A0-D4 (hex) RADIOLAN, INC.
00A0D4 (base
16) RADIOLAN, INC.
454 DEGUIGNE DRIVE - STE
SUNNYVALE CA 94086
US

00-20-B9 (hex) METRICOM, INC.
0020B9 (base 16) METRICOM, INC.
980 UNIVERSITY AVENUE
LOS GATOS CA 95030
US

00-20-39 (hex) SCINETS
002039 (base 16) SCINETS
1575 TENAKA - STE# N8
SUNNYVALE CA 94087
US

00-20-E8 (hex) DATATREK CORPORATION
0020E8 (base 16) DATATREK CORPORATION
4505 WYLAND DRIVE
ELKHART IN 46516
US

00-20-C5 (hex) EAGLE TECHNOLOGY
0020C5 (base 16) EAGLE TECHNOLOGY
2865 ZANKER ROAD
SAN JOSE CA 95134
US

00-20-09 (hex) PACKARD BELL ELEC., INC.
002009 (base 16) PACKARD BELL ELEC., INC.
9425 CANOGA AVENUE
CHATSWORTH CA 913211
US

00-20-27 (hex) MING FORTUNE INDUSTRY CO., LTD
002027 (base 16) MING FORTUNE INDUSTRY CO., LTD
4F, NO. 800 CHUNG CHENG RD,
TAIWAN TAIWAN R.O.C.
TW

00-20-2C (hex) WELLTRONIX CO., LTD.
00202C (base 16) WELLTRONIX CO., LTD.
3F, NO.
36-1, HWANG HSI STREET
TAIWAN TAIWAN R.O.C.
TW

00-20-84 (hex) OCE PRINTING SYSTEMS, GMBH
002084 (base 16) OCE PRINTING SYSTEMS, GMBH
SIEMENSALLEE 2

DE

00-20-EC (hex) TECHWARE SYSTEMS CORP.
0020EC (base 16) TECHWARE SYSTEMS CORP.
#100 - 12051 HORSESHOE WAY
V7A 4V4
CA

00-20-6E (hex) XACT, INC.
00206E (base 16) XACT, INC.
P.O. BOX 55
ARGYLE TX 76226
US

00-20-F1 (hex) ALTOS INDIA LIMITED
0020F1 (base 16) ALTOS INDIA LIMITED
D-60, OKLHLA INDUSTRIAL

IN

00-20-41 (hex) DATA NET
002041 (base 16) DATA NET
SUWON P.O. BOX 106, SUWON
KOREA 440-600
KR

00-20-76 (hex) REUDO CORPORATION
002076 (base 16) REUDO CORPORATION
4-1-10 SHINSAN

JP

00-C0-43 (hex) STRATACOM
00C043 (base 16) STRATACOM
1400 PARKMOOR AVENUE
SAN JOSE CA 95126
US

00-C0-B5 (hex) CORPORATE NETWORK SYSTEMS,INC.
00C0B5 (base 16) CORPORATE NETWORK SYSTEMS,INC.
5711
SIX FORKS ROAD--STE #306
RALEIGH NC 27609
US

00-C0-4B (hex) CREATIVE MICROSYSTEMS
00C04B (base 16) CREATIVE MICROSYSTEMS
9, AVENUE DU CANADA
91966 LES ULIS---FRANC
FR

00-20-8A (hex) SONIX COMMUNICATIONS, LTD.
00208A (base 16) SONIX COMMUNICATIONS, LTD.
WILKINSON ROAD
ENGLAND
GB

00-20-D2 (hex) RAD DATA COMMUNICATIONS, LTD.
0020D2 (base 16) RAD DATA COMMUNICATIONS, LTD.
8 HANECHOSHET STREET

KZ

00-20-02 (hex) SERITECH ENTERPRISE CO., LTD.
002002 (base 16) SERITECH ENTERPRISE CO., LTD.
FL. 182, NO. 531-1
TAIWAN TAIWAN R.O.C.
TW

00-20-4B (hex) AUTOCOMPUTER CO., LTD.
00204B (base 16) AUTOCOMPUTER CO., LTD.
NO. 18, PEI YUAN ROAD
TAIWAN TAIWAN R.O.C.

TW

00-20-8C (hex) GALAXY NETWORKS, INC.
00208C (base 16) GALAXY NETWORKS, INC.
9348 DE SOTO AVENUE
CHATSWORTH CA 91311
US

00-C0-B9 (hex) FUNK SOFTWARE, INC.
00C0B9 (base
16) FUNK SOFTWARE, INC.
222 THIRD STREET
CAMBRIDGE MA 02142
US

00-20-BB (hex) ZAX CORPORATION
0020BB (base 16) ZAX CORPORATION
20-12 OGIKUBO 5-CHOME
167
JP

00-20-A8 (hex) SAST TECHNOLOGY CORP.
0020A8 (base 16) SAST TECHNOLOGY CORP.
225 OLD NEW BRUNSWICK RD.
PISCATAWAY NJ 08854
US

00-20-45 (hex) ION Networks, Inc.
002045 (base 16) ION Networks, Inc.
1551 South Washington Ave.
Piscataway NJ 08854
US

00-20-21 (hex) ALGORITHMS SOFTWARE PVT. LTD.
002021 (base 16) ALGORITHMS SOFTWARE PVT. LTD.
83 JOLLY MAKER CHAMBERS II

IN

00-20-49 (hex) COMTRON, INC.
002049 (base 16) COMTRON, INC.
SANCATHERINA BLDG.
TOKYO 160
JP

00-20-50 (hex) KOREA COMPUTER INC.
002050 (base 16) KOREA COMPUTER INC.
469, DAEHEUNG-DONG

KOREA
KR

00-20-A6 (hex) Proxim Wireless
0020A6 (base 16) Proxim Wireless
2114 Ringwood Ave
San Jose CA 95131
US

00-20-6A
(hex) OSAKA COMPUTER CORP.
00206A (base 16) OSAKA COMPUTER CORP.
2-8 KOYACHOU NEYAGAW-SHI

JP

00-20-DB (hex) XNET TECHNOLOGY, INC.
0020DB (base 16) XNET TECHNOLOGY, INC.
426 S. HILLVIEW DRIVE
MILPITAS CA 95035
US

00-C0-7F (hex) NUPON COMPUTING CORP.
00C07F (base 16) NUPON COMPUTING CORP.
1391 WARNER AVE., -SUITE
TUSTIN CA 92680
US

00-C0-57 (hex) MYCO ELECTRONICS
00C057 (base 16) MYCO ELECTRONICS
MUSSERONGRAND 1G

SE

00-C0-56 (hex) SOMELEC
00C056 (base 16) SOMELEC
BP 7010 - 95050

FR

00-C0-27 (hex) CIPHER SYSTEMS, INC.
00C027 (base 16) CIPHER SYSTEMS, INC.
22115 NW Imbrie Dr #285
Hillsboro OR 97124
US

00-C0-5C (hex) ELONEX PLC
00C05C (base 16) ELONEX PLC

2 APSLEY WAY
UNITED KINGDOM
GB

00-C0-ED (hex) US ARMY ELECTRONIC
00C0ED (base 16) US ARMY ELECTRONIC
PROVING GROUND
SIERRA VISTA AZ 85635
US

00-C0-28
(hex) JASCO CORPORATION
00C028 (base 16) JASCO CORPORATION
2967-5 ISHIKAWA-CHO,

JP

00-C0-8D (hex) TRONIX PRODUCT DEVELOPMENT
00C08D (base 16) TRONIX PRODUCT DEVELOPMENT
4908 E. MCDOWELL RD. STE.#100
PHOENIX AZ 85008
US

00-C0-2A (hex) OHKURA ELECTRIC CO., LTD.
00C02A (base 16) OHKURA ELECTRIC CO., LTD.
2-90-20 SHIRAKO WAKO CITY
351-01
JP

00-C0-EF (hex) ABIT CORPORATION
00C0EF (base 16) ABIT CORPORATION
29-11 HIRAOKA-CHO
192
JP

00-C0-61 (hex) SOLECTEK CORPORATION
00C061 (base 16) SOLECTEK CORPORATION
6370 NANCY RIDGE DR.-STE.#109
SAN DIEGO CA 92121
US

00-C0-AD (hex) MARBEN COMMUNICATION SYSTEMS
00C0AD (base 16) MARBEN COMMUNICATION SYSTEMS
1 RUE DU BOIS CHALAND

FR

00-C0-75 (hex) XANTE CORPORATION

00C075 (base 16) XANTE CORPORATION
2559 EMOGENE STREET
MOBILE AL 36606
US

00-1C-7C (hex) PERQ SYSTEMS CORPORATION
001C7C
(base 16) PERQ SYSTEMS CORPORATION
2600 LIBERTY AVENUE
PITTSBURGH PA 15230
US

00-C0-39 (hex) Teridian Semiconductor Corporation
00C039 (base 16) Teridian Semiconductor Corporation
6440 Oak Canyon
Irvine CA 92618
US

00-C0-A9 (hex) BARRON MCCANN LTD.
00C0A9 (base 16) BARRON MCCANN LTD.
BEMAC HOUSE
UNITED KINGDOM
GB

00-C0-19 (hex) LEAP TECHNOLOGY, INC.
00C019 (base 16) LEAP TECHNOLOGY, INC.
20
BURLINGTON MA 01803
US

00-C0-CF (hex) IMATRAN VOIMA OY
00C0CF (base 16) IMATRAN VOIMA OY
IVO

FI

00-C0-5B (hex) NETWORKS NORTHWEST, INC.
00C05B (base 16) NETWORKS NORTHWEST, INC.
P.O. BOX 1188
ISSAQUAH WA 98027
US

00-C0-08 (hex) SECO SRL
00C008 (base 16) SECO SRL
VIA CALAMANDREI 91

IT

00-C0-B7 (hex) AMERICAN POWER CONVERSION CORP
00C0B7 (base 16) AMERICAN POWER CONVERSION CORP
267 BOSTON ROAD #2
NORTH BILLERICA
MA 01862
US

00-C0-FC (hex) ELASTIC REALITY, INC.
00C0FC (base 16) ELASTIC REALITY, INC.
925 STEWART STREET
MADISON WI 53713
US

00-C0-BB (hex) FORVAL CREATIVE, INC.
00C0BB (base 16) FORVAL CREATIVE, INC.
3-27-12 HONGO

JP

00-C0-15 (hex) NEW MEDIA CORPORATION
00C015 (base 16) NEW MEDIA CORPORATION
15375 BARRANCA PARKWAY
IRVINE CA 92718
US

00-C0-83 (hex) TRACE MOUNTAIN PRODUCTS, INC.
00C083 (base 16) TRACE MOUNTAIN PRODUCTS, INC.
1040 EAST BROKAW ROAD
SAN JOSE CA 95131
US

00-C0-94 (hex) VMX INC.
00C094 (base 16) VMX INC.
2115 O'NEL DRIVE
SAN JOSE CA 95131
US

00-C0-F9 (hex) Artesyn Embedded Technologies
00C0F9 (base 16) Artesyn Embedded Technologies
2900 S. Diablo Way Suite 190
Tempe AZ 85282
US

00-C0-32 (hex) I-CUBED LIMITED
00C032 (base 16) I-CUBED LIMITED
UNIT J1, THE POADDOCKS
CB1 4DH CB1 4DH ENGLAND
GB

00-C0-A5
(hex) DICKENS DATA SYSTEMS
00C0A5 (base 16) DICKENS DATA SYSTEMS
1175 NORTHMEADOW PKWY-STE #150
ROSWELL GA 30076
US

00-C0-D3 (hex) OLYMPUS IMAGE SYSTEMS, INC.
00C0D3 (base 16) OLYMPUS IMAGE SYSTEMS, INC.
15271 BARRANCA PARKWAY
IRVINE CA 92718-2201
US

00-C0-7D (hex) RISC DEVELOPMENTS LTD.
00C07D (base 16) RISC DEVELOPMENTS LTD.
117 HATFIELD ROAD
ENGLAND
GB

00-C0-E0 (hex) DSC COMMUNICATION CORP.
00C0E0 (base 16) DSC COMMUNICATION CORP.
1000 COIT ROAD, MS#ADVP 3
PLANO TX 75075
US

00-C0-DA (hex) NICE SYSTEMS LTD.
00C0DA (base 16) NICE SYSTEMS LTD.
3 TEVUOT HA'ARETZ ST

IL

00-40-D9 (hex) AMERICAN MEGATRENDS INC.
0040D9 (base 16) AMERICAN MEGATRENDS INC.
6145F N BELT PARKWAY
NORCROSS GA 30071
US

00-40-21 (hex) RASTER GRAPHICS
004021 (base 16) RASTER GRAPHICS
285 N. WOLFE ROAD
SUNNYVALE CA 94086
US

00-40-C1 (hex) BIZERBA-WERKE WILHEIM
KRAUT
0040C1 (base 16) BIZERBA-WERKE WILHEIM KRAUT
GMBH & CO. KG,

D-7460 BALINGEN D-7460 BALINGEN
DE

00-40-E1 (hex) MARNER INTERNATIONAL, INC.
0040E1 (base 16) MARNER INTERNATIONAL, INC.
1617 93RD LANE NE
BLAINE MN 55449
US

00-40-FE (hex) SYMPLEX COMMUNICATIONS
0040FE (base 16) SYMPLEX COMMUNICATIONS
5 RESEARCH DRIVE
ANN ARBOR MI 48103
US

00-C0-E8 (hex) PLEXCOM, INC.
00C0E8 (base 16) PLEXCOM, INC.
65 MORELAND ROADENUYE
SIMI VALLEY CA 93065
US

00-C0-D1 (hex) COMTREE TECHNOLOGY CORPORATION
00C0D1 (base 16) COMTREE TECHNOLOGY CORPORATION
5F-7, NO. 1, FU-HSING NORTH RD
TAIWAN R.O.C.
CN

00-C0-38 (hex) RASTER IMAGE PROCESSING SYSTEM
00C038 (base 16) RASTER IMAGE PROCESSING SYSTEM
4665 NAUTILUS COURT SOUTH
BOULDER CO 80301
US

00-C0-92 (hex) MENNEN MEDICAL INC.
00C092 (base 16) MENNEN MEDICAL INC.
10123 MAIN STREET
CLARENCE NY 14031-2095
US

00-C0-52
(hex) BURR-BROWN
00C052 (base 16) BURR-BROWN
P.O. BOX 11400
TUCSON AZ 85734-1400
US

00-40-BD (hex) STARLIGHT NETWORKS, INC.
0040BD (base 16) STARLIGHT NETWORKS, INC.

444 CASTRO STREET STE
MOUNTAIN VIEW CA 94041
US

00-40-ED (hex) NETWORK CONTROLS INT'NATL INC.
0040ED (base 16) NETWORK CONTROLS INT'NATL INC.
9 WOODLAWN GREEN
CHARLOTTE NC 28217
US

00-40-E5 (hex) SYBUS CORPORATION
0040E5 (base 16) SYBUS CORPORATION
2300 TALL PINE DRIVE-STE. #100
LARGO FL 34641
US

00-40-A5 (hex) CLINICOMP INTL.
0040A5 (base 16) CLINICOMP INTL.
4510 EXECCUTIVE DRIVE-STE.#200
SAN DIEGO CA 92121
US

00-40-05 (hex) ANI COMMUNICATIONS INC.
004005 (base 16) ANI COMMUNICATIONS INC.
8 ANZIO
IRVINE CA 92714
US

00-C0-30 (hex) INTEGRATED ENGINEERING B. V.
00C030 (base 16) INTEGRATED ENGINEERING B. V.
ELLERMANSTRAAT 15
THE
NL

00-C0-A6 (hex) EXICOM
AUSTRALIA PTY. LTD
00C0A6 (base 16) EXICOM AUSTRALIA PTY. LTD
44-46 MANDARIN STREET

AU

00-C0-CB (hex) CONTROL TECHNOLOGY CORPORATION
00C0CB (base 16) CONTROL TECHNOLOGY CORPORATION
25 SOUTH STREET
HOPKINTON MA 01748
US

00-C0-EB (hex) SEH COMPUTERTECHNIK GMBH

00C0EB (base 16) SEH COMPUTERTECHNIK GMBH
Suedring 11

DE

00-40-DB (hex) ADVANCED TECHNICAL SOLUTIONS
0040DB (base 16) ADVANCED TECHNICAL SOLUTIONS
8050 SEMINOLE OFFICE CENTER
SEMINOLE FL 34642
US

00-40-9B (hex) HAL COMPUTER SYSTEMS INC.
00409B (base 16) HAL COMPUTER SYSTEMS INC.
1315 DELL AVENUE
CAMPBELL CA 95008
US

00-40-EB (hex) MARTIN MARIETTA CORPORATION
0040EB (base 16) MARTIN MARIETTA CORPORATION
12506 LAKE UNDERHILL
ORLANDO FL 32825
US

00-40-D4 (hex) GAGE TALKER CORP.
0040D4 (base 16) GAGE TALKER CORP.
13680 NE 16TH STREET
BELLEVUE WA 98005
US

00-40-38
(hex) TALENT ELECTRIC INCORPORATED
004038 (base 16) TALENT ELECTRIC INCORPORATED
3RD FL., NO. 260, PA TEH ROAD
TAIWAN TAIWAN R.O.C.
TW

00-40-D8 (hex) OCEAN OFFICE AUTOMATION LTD.
0040D8 (base 16) OCEAN OFFICE AUTOMATION LTD.
4TH & 5TH FLOOR, KADER BLDG.
HONG KONG
HK

00-40-C6 (hex) FIBERNET RESEARCH, INC.
0040C6 (base 16) FIBERNET RESEARCH, INC.
1 TARA BOULEVARD-#405
NASHUA NH 03062
US

00-40-32 (hex) DIGITAL COMMUNICATIONS
004032 (base 16) DIGITAL COMMUNICATIONS
ASSOCIATES, INC.
SAN JOSE CA 95131
US

00-40-C2 (hex) APPLIED COMPUTING DEVICES
0040C2 (base 16) APPLIED COMPUTING DEVICES
ALEPH PARK
TERRE HAUTE IN 47802
US

00-40-88 (hex) MOBIUS TECHNOLOGIES, INC.
004088 (base 16) MOBIUS TECHNOLOGIES, INC.
5835 DOYLE STREET
EMERYVILLE CA 94608
US

00-80-AA (hex) MAXPEED
0080AA (base 16) MAXPEED
1120 CHESS DRIVE
FOSTER CITY CA 94404
US

00-C0-50
(hex) TOYO DENKI SEIZO K.K.
00C050 (base 16) TOYO DENKI SEIZO K.K.
4-6-32 HIGASHIKASHIWAGAYA
KANAGAWA JAPAN 243-04
JP

00-40-0E (hex) MEMOTEC, INC.
00400E (base 16) MEMOTEC, INC.
7755 Henri-Bourassa
MONTREAL, QUEBEC H4S 1P7
CA

00-C0-3D (hex) WIESEMANN & THEIS GMBH
00C03D (base 16) WIESEMANN & THEIS GMBH
WITTENER STR. 312

DE

00-40-4C (hex) HYPERTEC PTY LTD.
00404C (base 16) HYPERTEC PTY LTD.
P.O. BOX 1782

AU

00-40-C8 (hex) MILAN TECHNOLOGY CORPORATION
0040C8 (base 16) MILAN TECHNOLOGY CORPORATION
894 ROSS DRIVE--STE #105
SUNNYVALE CA 94089
US

00-40-BA (hex) ALLIANT COMPUTER SYSTEMS CORP.
0040BA (base 16) ALLIANT COMPUTER SYSTEMS CORP.
ONE MONARCH DRIVE
LITTLETON MA 01460
US

00-40-CE (hex) NET-SOURCE, INC.
0040CE (base 16) NET-SOURCE, INC.
1265 EL CAMINO REAL
SANTA CLARA CA 95050
US

00-40-50 (hex) IRONICS, INCORPORATED
004050
(base 16) IRONICS, INCORPORATED
767 WARREN RD
ITHACA N.Y. 14850
US

00-40-47 (hex) WIND RIVER SYSTEMS
004047 (base 16) WIND RIVER SYSTEMS
1010 ATLANTIC AVENUE
ALAMEDA CA 94501
US

00-40-1C (hex) AST RESEARCH, INC.
00401C (base 16) AST RESEARCH, INC.
MS 2-78
IRVINE CA 92618
US

00-40-0F (hex) DATACOM TECHNOLOGIES
00400F (base 16) DATACOM TECHNOLOGIES
11001 31ST PLACE WEST
EVERETT WA 98204
US

00-40-06 (hex) SAMPO TECHNOLOGY CORPORATION
004006 (base 16) SAMPO TECHNOLOGY CORPORATION
26-2 TING-HU,
33334 TAIWAN 33334 TAIWAN R.O.C.

TW

00-40-62 (hex) E-SYSTEMS, INC./GARLAND DIV.
004062 (base 16) E-SYSTEMS, INC./GARLAND DIV.
P.O. BOX 660023
DALLAS TX 75266-0023
US

00-40-34 (hex) BUSTEK CORPORATION
004034 (base 16) BUSTEK CORPORATION
4151 BURTON DRIVE
SANTA CLARA CA 95054
US

00-80-4E (hex) APEX COMPUTER COMPANY
00804E (base
16) APEX COMPUTER COMPANY
4500 150TH AVENUE, NE
REDMOND WA 98052
US

00-80-55 (hex) FERMILAB
008055 (base 16) FERMILAB
P.O. BOX 500, MS-234
BATAVIA IL 60510
US

00-80-2A (hex) TEST SYSTEMS & SIMULATIONS INC
00802A (base 16) TEST SYSTEMS & SIMULATIONS INC
32429 INDUSTRIAL DRIVE
MADISON HEIGHTS MI 48071-1528
US

00-80-C0 (hex) PENRIL DATACOMM
0080C0 (base 16) PENRIL DATACOMM
1300 QUINCE ORCHARD BLVD.
GAITHERSBURG MD 20878
US

00-80-35 (hex) TECHNOLOGY WORKS, INC.
008035 (base 16) TECHNOLOGY WORKS, INC.
4030 BRAKER LANE #350
AUSTIN TX 78759
US

00-80-7E (hex) SOUTHERN PACIFIC LTD.
00807E (base 16) SOUTHERN PACIFIC LTD.
SANWA BLDG., 2-16-20

JAPAN JAPAN 220
JP

00-80-EF (hex) RATIONAL
0080EF (base 16) RATIONAL
3320 SCOTT BOULEVARD
SANTA CLARA CA 95054
US

00-80-F0 (hex) Panasonic Communications Co., Ltd.
0080F0 (base 16) Panasonic Communications
Co., Ltd.
4-1-62 Minoshima Hakata Fukuoka
812-8531
JP

00-80-51 (hex) FIBERMUX
008051 (base 16) FIBERMUX
9310 TOPANGA CANYON BLVD.
CHATSWORTH CA 91311
US

00-80-93 (hex) XYRON CORPORATION
008093 (base 16) XYRON CORPORATION
7864 LILY COURT
CUPERTINO CA 95014
US

00-80-92 (hex) Silex Technology, Inc.
008092 (base 16) Silex Technology, Inc.
2-3-1 Hikaridai,
Kyoto 619-0237
JP

00-80-5A (hex) TULIP COMPUTERS INTERNAT'L B.V
00805A (base 16) TULIP COMPUTERS INTERNAT'L B.V
P.O. BOX 3333
THE
NL

00-80-C6 (hex) NATIONAL DATACOMM CORPORATION
0080C6 (base 16) NATIONAL DATACOMM CORPORATION
2F, 28, INDUSTRY EAST 9TH RD.
TAIWAN 30077 TAIWAN 30077 R.O.C.
TW

00-40-41 (hex) FUJIKURA LTD.
004041 (base 16) FUJIKURA LTD.

1-5-1, KIBA, KOTO-KU

JP

00-00-50 (hex) RADISYS CORPORATION
000050 (base 16) RADISYS CORPORATION
15025 S.W. KOLL
PARKWAY
BEAVERTON OR 97006-6056
US

00-80-2E (hex) CASTLE ROCK COMPUTING
00802E (base 16) CASTLE ROCK COMPUTING
20837 BOYCE LANE
SARATOGA CA 95070-4806
US

00-80-F2 (hex) RAYCOM SYSTEMS INC
0080F2 (base 16) RAYCOM SYSTEMS INC
16525 SHERMAN WAY #C-8
VAN NUYS CA 91406
US

00-80-BD (hex) THE FURUKAWA ELECTRIC CO., LTD
0080BD (base 16) THE FURUKAWA ELECTRIC CO., LTD
6-1, MARUNOUCHI 2-CHOME
100
JP

00-80-25 (hex) Telit Wireless Solutions GmbH
008025 (base 16) Telit Wireless Solutions GmbH
Mendelssohnstrasse15D
Hamburg 22761
DE

00-80-EA (hex) ADVA Optical Networking Ltd.
0080EA (base 16) ADVA Optical Networking Ltd.
ADVAntage House
York YO30 4RY
GB

00-80-0D (hex) VOSSWINKEL F.U.
00800D (base 16) VOSSWINKEL F.U.
AM JOSTENHOF 15

DE

00-80-D1 (hex) KIMTRON CORPORATION

0080D1 (base 16) KIMTRON CORPORATION
1709 JUNCTION COURT
SAN
JOSE CA 95112
US

00-80-40 (hex) JOHN FLUKE MANUFACTURING CO.
008040 (base 16) JOHN FLUKE MANUFACTURING CO.
P.O. BOX C9090-M/S 244F
EVERETT WA 98206
US

00-80-21 (hex) Alcatel Canada Inc.
008021 (base 16) Alcatel Canada Inc.
349 Terry Fox Drive
Kanata Ontario K2K 2V6
CA

00-80-E8 (hex) CUMULUS CORPORATIION
0080E8 (base 16) CUMULUS CORPORATIION
23500 MERCANTILE ROAD
CLEVELAND OH 44122
US

00-00-1E (hex) TELSIST INDUSTRIA ELECTRONICA
00001E (base 16) TELSIST INDUSTRIA ELECTRONICA
RUA VILHENA DE MORAES, 380

BR

00-80-04 (hex) ANTLOW COMMUNICATIONS, LTD.
008004 (base 16) ANTLOW COMMUNICATIONS, LTD.
4 COLTHROP WAY
ENGLAND
GB

00-80-D0 (hex) COMPUTER PERIPHERALS, INC.
0080D0 (base 16) COMPUTER PERIPHERALS, INC.
667 RANCHO CONEJO BLVD.
NEWBURY PARK CA 91320
US

00-80-24 (hex) KALPANA, INC.
008024 (base 16) KALPANA, INC.
1154 EAST ARQUES AVENUE
SUNNYVALE
CA 94086
US

00-80-00 (hex) MULTITECH SYSTEMS, INC.
008000 (base 16) MULTITECH SYSTEMS, INC.
2205 WOODALE DRIVE
MOUNDS VIEW MN 55112
US

00-80-69 (hex) COMPUTONE SYSTEMS
008069 (base 16) COMPUTONE SYSTEMS
1100 NORTHMEADOW PARKWAY
ROSWELL GA 30076
US

00-80-75 (hex) PARSYTEC GMBH
008075 (base 16) PARSYTEC GMBH
JUELICHER STR. 338
F.R.
DE

00-80-1D (hex) INTEGRATED INFERENCE MACHINES
00801D (base 16) INTEGRATED INFERENCE MACHINES
1468 EAST KATELLA
ANAHEIM CA 92805
US

00-80-ED (hex) IQ TECHNOLOGIES, INC.
0080ED (base 16) IQ TECHNOLOGIES, INC.
11811 NE FIRST STREET
BELLEVUE WA 98005
US

00-80-9A (hex) NOVUS NETWORKS LTD
00809A (base 16) NOVUS NETWORKS LTD
JOHN SCOTT HOUSE
ENGLAND
GB

00-80-42 (hex) Artesyn Embedded Technologies
008042 (base 16) Artesyn Embedded Technologies
2900 S. Diablo Way
Tempe AZ 85282
US

00-80-4A
(hex) PRO-LOG
00804A (base 16) PRO-LOG
12 UPPER RAGSDALE DRIVE
MONTEREY CA 93940

US

00-00-B5 (hex) DATABILITY SOFTWARE SYS. INC.
0000B5 (base 16) DATABILITY SOFTWARE SYS. INC.
ONE PALMER TERRACE
CARLSTADT NJ 07072
US

00-00-66 (hex) TALARIS SYSTEMS, INC.
000066 (base 16) TALARIS SYSTEMS, INC.
11339 SORRENTO VALLEY ROAD
SAN DIEGO CA 92121
US

00-00-49 (hex) APRICOT COMPUTERS, LTD
000049 (base 16) APRICOT COMPUTERS, LTD
90 VINCENT DRIVE
ENGLAND
GB

00-00-FA (hex) MICROSAGE COMPUTER SYSTEMS INC
0000FA (base 16) MICROSAGE COMPUTER SYSTEMS INC
680 SOUTH ROCK BLVD
RENO NE 89502
US

00-00-D4 (hex) PURE DATA LTD.
0000D4 (base 16) PURE DATA LTD.
200 WEST BEAVER CREEK ROAD
L4B 1B4
CA

00-00-19 (hex) APPLIED DYNAMICS INTERNATIONAL
000019 (base 16) APPLIED DYNAMICS INTERNATIONAL
3800 STONE SCHOOL ROAD
ANN ARBOR MI 48104-2499
US

00-00-4B
(hex) ICL DATA OY
00004B (base 16) ICL DATA OY
KUTOMOTIE 16-18

FI

00-00-E0 (hex) QUADRAM CORP.
0000E0 (base 16) QUADRAM CORP.
ONE QUAD WAY

NORCROSS GA 30093
US

00-00-4F (hex) LOGICRAFT, INC.
00004F (base 16) LOGICRAFT, INC.
22 COTTON ROAD
NASHUA NH 03063
US

00-00-15 (hex) DATAPOINT CORPORATION
000015 (base 16) DATAPOINT CORPORATION
9725 DATAPOINT DRIVE
SAN ANTONIO TX 78284
US

00-00-1C (hex) BELL TECHNOLOGIES
00001C (base 16) BELL TECHNOLOGIES
330 WARREN AVENUE
FREMONT CA 94539
US

00-00-34 (hex) NETWORK RESOURCES CORPORATION
000034 (base 16) NETWORK RESOURCES CORPORATION
61 EAST DAGGETT DRIVE
SAN JOSE CA 95134
US

00-00-22 (hex) VISUAL TECHNOLOGY INC.
000022 (base 16) VISUAL TECHNOLOGY INC.
1703 MIDDLESEX STREET
LOWELL MA 01851
US

00-00-AB (hex) LOGIC MODELING CORPORATION
0000AB (base 16) LOGIC MODELING CORPORATION
1520
MCCANDLESS DRIVE
MILPITAS CA 95035
US

00-00-27 (hex) JAPAN RADIO COMPANY
000027 (base 16) JAPAN RADIO COMPANY
LABORATORY

JP

00-00-E8 (hex) ACCTON TECHNOLOGY CORP.
0000E8 (base 16) ACCTON TECHNOLOGY CORP.

46750 FREMONT BLVD. #104
FREMONT CA 94538
US

00-00-2F (hex) TIMEPLEX INC.
00002F (base 16) TIMEPLEX INC.
530 CHESTNUT RIDGE ROAD
WOODCLIFF LAKE NJ 07675
US

00-00-E6 (hex) APTOR PRODUITS DE COMM INDUST
0000E6 (base 16) APTOR PRODUITS DE COMM INDUST
61, CHEMIN DU VIEUX-CHENE

FR

00-00-9A (hex) RC COMPUTER A/S
00009A (base 16) RC COMPUTER A/S
LAUTRUPBJERG 1

DK

00-00-E7 (hex) Star Gate Technologies
0000E7 (base 16) Star Gate Technologies
29300 Aurora Road
Solon OH 44139
US

00-00-3A (hex) CHYRON CORPORATION
00003A (base 16) CHYRON CORPORATION
265 SPAGNOLI ROAD
MELVILLE NY 11747
US

00-00-BE (hex) THE
NTI GROUP
0000BE (base 16) THE NTI GROUP
4701 PATRICK HENRY DRIVE
SANTA CLARA CA 95054
US

00-00-D9 (hex) NIPPON TELEGRAPH & TELEPHONE
0000D9 (base 16) NIPPON TELEGRAPH & TELEPHONE
CORPORATION (NTT)
TOKYO 100-8116
JP

00-00-18 (hex) WEBSTER COMPUTER CORPORATION

000018 (base 16) WEBSTER COMPUTER CORPORATION
16040 REDWOOD LODGE ROAD
LOS GATOS CA 95033-9260
US

00-00-D5 (hex) MICROGNOSIS INTERNATIONAL
0000D5 (base 16) MICROGNOSIS INTERNATIONAL
63 QUEEN VICTORIA STREET
UNITED KINGDOM
GB

00-80-AC (hex) IMLOGIX, DIVISION OF GENESYS
0080AC (base 16) IMLOGIX, DIVISION OF GENESYS
1900 SUMMIT TOWER BLVD.STE#770
ORLANDO FL 32810
US

00-00-80 (hex) CRAY COMMUNICATIONS A/S
000080 (base 16) CRAY COMMUNICATIONS A/S
SMEDEHOLM 12-14

DK

08-00-89 (hex) Kinetics
080089 (base 16) Kinetics

Walnut Creek CA
US

08-00-86 (hex) KONICA MINOLTA HOLDINGS,
INC.
080086 (base 16) KONICA MINOLTA HOLDINGS, INC.
1-6-1, Marunouchi,
Tokyo 100-0005
JP

00-00-69 (hex) CONCORD COMMUNICATIONS INC
000069 (base 16) CONCORD COMMUNICATIONS INC
753 FOREST STREET
MARLBOROUGH MA 01752
US

00-00-73 (hex) SIECOR CORPORATION
000073 (base 16) SIECOR CORPORATION
P.O. BOX 13625
RESEARCH TRIANGLE PK NC 27709
US

00-00-B9 (hex) MCDONNELL DOUGLAS COMPUTER SYS
0000B9 (base 16) MCDONNELL DOUGLAS COMPUTER SYS
DIV MCDONNELL DOUGLAS INF SYS
ENGLAND
GB

00-00-BF (hex) SYMMETRIC COMPUTER SYSTEMS
0000BF (base 16) SYMMETRIC COMPUTER SYSTEMS
1620 OAKLAND ROAD SUITE D-200
SAN JOSE CA 95131
US

00-00-2D (hex) CHROMATICS INC
00002D (base 16) CHROMATICS INC
2558 MOUNTAIN INDUSTRIAL BLVD
TUCKER GA 30084
US

00-00-4D (hex) DCI CORPORATION
00004D (base 16) DCI CORPORATION
64J PRINCETON-HIGHTSTOWN RD
PRINCETON JUNCTION NJ 08550
US

00-00-23
(hex) ABB INDUSTRIAL SYSTEMS AB
000023 (base 16) ABB INDUSTRIAL SYSTEMS AB
DEPT. SEISY/LKSB

SE

00-00-59 (hex) Hellige GMBH
000059 (base 16) Hellige GMBH
Heinrich-von-Stephan-Str. 4
West Gernany
DE

00-00-6F (hex) Madge Ltd.
00006F (base 16) Madge Ltd.
Madge House
Maindenhead Berkshire SL6 2HP
GB

00-00-78 (hex) LABTAM LIMITED
000078 (base 16) LABTAM LIMITED
43 MALCOLM ROAD P.O. BOX297

AU

00-00-5A (hex) SysKonnect GmbH
00005A (base 16) SysKonnect GmbH
SIEMENSSTRAßE 23

DE

00-00-71 (hex) ADRA SYSTEMS INC.
000071 (base 16) ADRA SYSTEMS INC.
59 TECHNOLOGY DRIVE
LOWELL MA 01851
US

08-00-61 (hex) JAROGATE LTD.
080061 (base 16) JAROGATE LTD.
197-213 LYHAM ROAD
UNITED KINGDOM
GB

08-00-5F (hex) SABER TECHNOLOGY CORP.
08005F (base 16) SABER TECHNOLOGY CORP.
2381 BERING DRIVE
SAN JOSE CA 95131-1125
US

08-00-58
(hex) SYSTEMS CONCEPTS
080058 (base 16) SYSTEMS CONCEPTS
520 THIRD STREET
SAN FRANCISCO CA 94107
US

08-00-83 (hex) Seiko Instruments Inc.
080083 (base 16) Seiko Instruments Inc.
8, Nakase 1-chome Mihama-ku
Chiba-shi Chiba 261-8507
JP

08-00-2A (hex) MOSAIC TECHNOLOGIES INC.
08002A (base 16) MOSAIC TECHNOLOGIES INC.
47 MANNING ROAD
BILLERICA MA 01821-3970
US

08-00-24 (hex) 10NET COMMUNICATIONS/DCA
080024 (base 16) 10NET COMMUNICATIONS/DCA
7777 WASHINGTON VILLAGE DR.
DAYTON OH 45459-3957

US

08-00-22 (hex) NBI INC.
080022 (base 16) NBI INC.
3450 MITCHELL LANE
BOULDER CO 80301
US

08-00-20 (hex) Oracle Corporation
080020 (base 16) Oracle Corporation
17 Network Circle
Menlo Park CA 95025
US

02-1C-7C (hex) PERQ SYSTEMS CORPORATION
021C7C (base 16) PERQ SYSTEMS CORPORATION
2600 LIBERTY AVENUE
PITTSBURGH PA 15230
US

00-00-05
(hex) XEROX CORPORATION
000005 (base 16) XEROX CORPORATION
M/S 105-50C
WEBSTER NY 14580
US

00-DD-08 (hex) UNGERMANN-BASS INC.
00DD08 (base 16) UNGERMANN-BASS INC.
3900 FREEDOM CIRCLE
SANTA CLARA CA 95054
US

AA-00-00 (hex) DIGITAL EQUIPMENT CORPORATION
AA0000 (base 16) DIGITAL EQUIPMENT CORPORATION
LKG 1-2/A19
LITTLETON MA 01460-1289
US

AA-00-01 (hex) DIGITAL EQUIPMENT CORPORATION
AA0001 (base 16) DIGITAL EQUIPMENT CORPORATION
LKG 1-2/A19
LITTLETON MA 01460-1289
US

AA-00-02 (hex) DIGITAL EQUIPMENT CORPORATION
AA0002 (base 16) DIGITAL EQUIPMENT CORPORATION
LKG 1-2/A19

LITTLETON MA 01460-1289
US

08-00-14 (hex) EXCELAN
080014 (base 16) EXCELAN
1599 FLICKINGER AVENUE
SAN JOSE CA 95131
US

08-00-65 (hex) GENRAD INC.
080065 (base 16) GENRAD INC.
300 BAKER AVENUE
CONCORD MA 01742
US

08-00-1F (hex) SHARP CORPORATION
08001F
(base 16) SHARP CORPORATION
ENGINEERING DEPARTMENT 6
NARA 639-11
JP

02-07-01 (hex) RACAL-DATACOM
020701 (base 16) RACAL-DATACOM
LAN INTERNETWORKING DIVISION
BOXBOROUGH MA 01719
US

08-00-06 (hex) SIEMENS AG
080006 (base 16) SIEMENS AG
Siemens IT Solutions and Services, SIS GO QM O
POB 2353 Fuerth 90713
DE

08-00-49 (hex) UNIVATION
080049 (base 16) UNIVATION
1037 NORTH FAIR OAKS AVE.
SUNNYVALE CA 94089
US

00-00-07 (hex) XEROX CORPORATION
000007 (base 16) XEROX CORPORATION
M/S 105-50C
WEBSTER NY 14580
US

00-80-1F (hex) KRUPP ATLAS ELECTRONIK GMBH
00801F (base 16) KRUPP ATLAS ELECTRONIK GMBH

P.O. BOX 448545

DE

02-AA-3C (hex) OLIVETTI TELECOMM SPA (OLTECO)
02AA3C (base 16) OLIVETTI TELECOMM SPA (OLTECO)
20300 STEVENS CREEK BLVD.
CUPERTINO CA 95014
US

04-E0-C4 (hex) TRIUMPH-ADLER AG
04E0C4 (base 16) TRIUMPH-ADLER AG
HUNDINGSTRAßE
11B

DE

08-00-13 (hex) Exxon
080013 (base 16) Exxon

US

64-57-25 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
645725 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.2,Jin-da Road,Huinan Industrial Park
Hui Zhou Guangdong 516025
CN

00-80-E9 (hex) Madge Ltd.
0080E9 (base 16) Madge Ltd.
Madge House
Maindenhead Berkshire SL6 2HP
GB

00-40-D6 (hex) LOCAMATION B.V.
0040D6 (base 16) LOCAMATION B.V.
POSTBOX 360
HOLLAND
NL

08-00-4B (hex) Planning Research Corp.
08004B (base 16) Planning Research Corp.
1508 Kennedy Drive
Bellvue NE 68005
US

04-25-E8 (hex) Texas Instruments

0425E8 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

28-3C-90 (hex) Texas Instruments
283C90 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

E4-FA-5B (hex) Texas Instruments
E4FA5B (base 16) Texas Instruments
12500
TI Blvd
Dallas TX 75243
US

84-87-FF (hex) Shenzhen Skyworth Digital Technology CO., Ltd
8487FF (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

08-00-59 (hex) A/S MYCRON
080059 (base 16) A/S MYCRON
PO BOX 6199

NO

08-00-08 (hex) BOLT BERANEK AND NEWMAN INC.
080008 (base 16) BOLT BERANEK AND NEWMAN INC.
70 FAWCETT STREET
CAMBRIDGE MA 02138
US

DC-10-57 (hex) Apple, Inc.
DC1057 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

30-D8-75 (hex) Apple, Inc.
30D875 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

68-3E-C0 (hex) Apple, Inc.
683EC0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-00-09 (hex) XEROX CORPORATION
000009 (base 16) XEROX CORPORATION
M/S 105-50C
WEBSTER NY 14580
US

44-C3-B6 (hex) HUAWEI
TECHNOLOGIES CO.,LTD
44C3B6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E8-F7-2F (hex) HUAWEI TECHNOLOGIES CO.,LTD
E8F72F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

50-A1-F3 (hex) Huawei Device Co., Ltd.
50A1F3 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

48-5F-DF (hex) zte corporation
485FDF (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

F0-F8-4A (hex) BUFFALO.INC
F0F84A (base 16) BUFFALO.INC
AKAMONDORI Bld.,30-20,Ohsu 3-chome,Naka-ku
Nagoya Aichi Pref. 460-8315
JP

6C-15-44 (hex) Microsoft Corporation
6C1544 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

3C-55-DB
(hex) Shenzhen Skyworth Digital Technology CO., Ltd
3C55DB (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

EC-6E-79 (hex) InHand Networks, INC.
EC6E79 (base 16) InHand Networks, INC.
43671 Trade Center Place Suite 100
Dulles VA 20166
US

C8-0C-53 (hex) China Mobile Group Device Co.,Ltd.
C80C53 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

78-5F-28 (hex) EM Microelectronic
785F28 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

A4-00-4E (hex) Cisco Systems, Inc
A4004E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

38-EF-E3 (hex) INGENICO TERMINALS SAS
38EFE3 (base 16) INGENICO TERMINALS SAS
13-17 Rue Pagès
Suresnes 92150
FR

2C-9E-E0 (hex) Cavli Inc.
2C9EE0
(base 16) Cavli Inc.
99 South Almaden Blvd
San Jose CA 95113
US

64-C1-7E (hex) cheilelectric
64C17E (base 16) cheilelectric
555, Eulsukdo-daero, Saha-gu, Busan, Republic of Korea

pusan 49437
KR

FC-8D-13 (hex) FUJIAN STAR-NET COMMUNICATION CO.,LTD
FC8D13 (base 16) FUJIAN STAR-NET COMMUNICATION CO.,LTD
19-22# Building, Star-net Science Plaza, Juyuanzhou,
FUZHOU FUJIAN 350002
CN

24-04-62 (hex) Siemens Energy Global GmbH & Co.KG - GT PRM
240462 (base 16) Siemens Energy Global GmbH & Co.KG - GT PRM
Paulsternstrasse 26
Berlin Berlin 13629
DE

A4-37-3E (hex) Huawei Device Co., Ltd.
A4373E (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C4-4F-5F (hex) Huawei Device Co., Ltd.
C44F5F (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

9C-B1-DC (hex) Earda
Technologies co Ltd
9CB1DC (base 16) Earda Technologies co Ltd
Block A,Lianfeng Creative Park, #2 Jisheng Rd., Nansha District
Guangzhou Guangdong 511455
CN

B0-2E-E0 (hex) Huawei Device Co., Ltd.
B02EE0 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

38-88-71 (hex) ASKEY COMPUTER CORP
388871 (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

BC-F8-7E (hex) Arcadyan Corporation
BCF87E (base 16) Arcadyan Corporation

No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

28-4E-E9 (hex) mercury corperation
284EE9 (base 16) mercury corperation
90,gajaeul-ro,seo-gu,incheon
incheon 22830
KR

58-E3-59 (hex) Interroll Software & Electronics GmbH
58E359 (base 16) Interroll Software & Electronics GmbH
Im Südpark 183
Linz 4030
AT

8C-32-23 (hex) JWIPC Technology
Co.,Ltd.
8C3223 (base 16) JWIPC Technology Co.,Ltd.
13/F, Haisong Building B, Tairan 9th Rd, Futian District
Shenzhen Guang Dong 5128042
CN

00-C8-96 (hex) CIG SHANGHAI CO LTD
00C896 (base 16) CIG SHANGHAI CO LTD
5th Floor, Building 8 No 2388 Chenhang Road
SHANGHAI 201114
CN

00-1B-09 (hex) MATRIX COMSEC PRIVATE LIMITED
001B09 (base 16) MATRIX COMSEC PRIVATE LIMITED
394, GIDC, Makarpura,
Vadodara Gujarat 390010
IN

F4-1A-79 (hex) IEEE Registration Authority
F41A79 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

28-00-AF (hex) Dell Inc.
2800AF (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

00-04-13 (hex) snom technology GmbH

000413 (base 16) snom technology GmbH
Aroser Allee 66
Berlin 13407
DE

5C-A4-7D (hex) Aruba, a Hewlett Packard Enterprise Company
5CA47D (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

74-B0-59 (hex) Motorola Mobility LLC, a Lenovo Company
74B059 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

E4-84-29 (hex) New H3C Technologies Co., Ltd
E48429 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
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8C-07-34 (hex) Private
8C0734 (base 16) Private

98-7A-9B (hex) TCL MOKA International Limited
987A9B (base 16) TCL MOKA International Limited
7/F, Building 22E 22 Science Park East Avenue
Hong Kong 999077
HK

78-16-99 (hex) HUAWEI TECHNOLOGIES CO.,LTD
781699 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E4-0A-16 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E40A16 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
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CN

40-9C-A7 (hex) CHINA DRAGON TECHNOLOGY LIMITED
409CA7 (base 16) CHINA DRAGON TECHNOLOGY LIMITED

B4 Building,No.3 First industrial Zone,Nanpu Road,Lao Community,Xinqian Street,Baoan District,Shenzhen,City
ShenZhen 518100
CN

D0-AD-08 (hex) HP Inc.
D0AD08 (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

CC-40-B2 (hex) ECI Telecom Ltd.
CC40B2 (base 16) ECI Telecom Ltd.
30 Hasivim St.
Petah Tikva 49133
IL

A4-E2-87 (hex) Xiaomi Communications Co Ltd
A4E287 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
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80-95-3A (hex) Apple, Inc.
80953A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

68-45-CC (hex) Apple, Inc.
6845CC (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

60-04-5C (hex) NXP Semiconductor
(Tianjin) LTD.
60045C (base 16) NXP Semiconductor (Tianjin) LTD.
No.15 Xinghua Avenue, Xiqing Economic Development Area
Tianjin 300385
CN

84-9C-02 (hex) Druid Software
849C02 (base 16) Druid Software
Block D, Civic Centre
Bray Wicklow A98 E1W9
IE

D0-C9-01 (hex) GLA ELECTRONICS PVT LTD

D0C901 (base 16) GLA ELECTRONICS PVT LTD
B 14/2 JHILMIL INDUSTRIAL AREA DELHI
DELHI DELHI 110095
IN

1C-4C-27 (hex) World WLAN Application Alliance
1C4C27 (base 16) World WLAN Application Alliance
5th Floor, Block B, Shenzhen-Hong Kong International Science and Technology Park, No. 14 Taohua Road, Futian District, Shenzhen
shenzhen guangdong province 518017
CN

68-AE-04 (hex) Shenzhen SuperElectron Technology Co.,Ltd.
68AE04 (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
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AC-97-38
(hex) Apple, Inc.
AC9738 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

CC-60-23 (hex) Apple, Inc.
CC6023 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

0C-DB-EA (hex) Apple, Inc.
0CDBEA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

08-C2-24 (hex) Amazon Technologies Inc.
08C224 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

68-93-2E (hex) Habana Labs LTD.
68932E (base 16) Habana Labs LTD.
9 Granite st.
Caesarea Select ... 3079821
IL

2C-C4-4F (hex) IEEE Registration Authority
2CC44F (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

98-12-23 (hex) Tarmoc Network LTD
981223 (base 16) Tarmoc Network LTD
203-2, building 1, Anxi business park, No. 35-1 Xiangyin Road, Nanlian community, Longgang street, Longgang District,
Shenzhen GuangDong
518000
CN

40-99-E3 (hex) Guangzhou Mudi Information Technology Co., Ltd
4099E3 (base 16) Guangzhou Mudi Information Technology Co., Ltd
Room 403, 404, No. 8, Yongtai Taixing Road, Yongping Street, Baiyun District, Guangzhou city
Guangzhou City Guangdong Province 510000
CN

7C-88-99 (hex) FN-LINK TECHNOLOGY Ltd.
7C8899 (base 16) FN-LINK TECHNOLOGY Ltd.
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Changsha Hunan 410329
CN

04-68-74 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
046874 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

FC-70-2E (hex) Sichuan AI-Link Technology Co., Ltd.
FC702E (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou, Industrial Park
Mianyang Sichuan 622650
CN

D4-76-A0 (hex) Fortinet, Inc.
D476A0
(base 16) Fortinet, Inc.
899 Kifer Road
Sunnyvale 94086
US

94-FF-3C (hex) Fortinet, Inc.
94FF3C (base 16) Fortinet, Inc.

899 Kifer Road
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US

B4-F9-5D (hex) Juniper Networks
B4F95D (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

6C-45-C4 (hex) Cloudflare, Inc.
6C45C4 (base 16) Cloudflare, Inc.
101 Townsend Street
San Francisco CA 94107
US

B0-47-E9 (hex) Intel Corporate
B047E9 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

6C-2F-80 (hex) Intel Corporate
6C2F80 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D0-65-78 (hex) Intel Corporate
D06578 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

74-90-BC (hex) Arcadyan Corporation
7490BC (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu
City Hsinchu 30071
TW

98-BD-80 (hex) Intel Corporate
98BD80 (base 16) Intel Corporate
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Kulim Kedah 09000
MY

A0-F5-09 (hex) IEI Integration Corp.

A0F509 (base 16) IEI Integration Corp.
4F., No. 29, Zhongxing Rd., Xizhi Dist.,
New Taipei City 221
TW

94-70-6C (hex) Quectel Wireless Solutions Co.,Ltd.
94706C (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
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1C-3B-01 (hex) Shanghai Xiaodu Technology Limited
1C3B01 (base 16) Shanghai Xiaodu Technology Limited
4th Floor Building No.1 , No.701 Naxian Road Pilot Free Trade Zone Shanghai China
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18-7F-88 (hex) Ring LLC
187F88 (base 16) Ring LLC
1523 26th St
Santa Monica CA 90404
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00-0D-97 (hex) Hitachi Energy USA Inc.
000D97 (base 16) Hitachi Energy USA Inc.
901 Main Campus Drive
Raleigh
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US

B8-7E-40 (hex) Huawei Device Co., Ltd.
B87E40 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

1C-2F-A2 (hex) Guangzhou Shiyuan Electronic Technology Company Limited
1C2FA2 (base 16) Guangzhou Shiyuan Electronic Technology Company Limited
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A4-3F-68 (hex) Arista Network, Inc.
A43F68 (base 16) Arista Network, Inc.
5453 Great America Parkway
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BC-9D-4E (hex) Shenzhen Skyworth Digital Technology CO., Ltd
BC9D4E (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
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3C-B8-D6 (hex) Bluebank Communication Technology Co.,Ltd.
3CB8D6 (base 16) Bluebank Communication Technology Co.,Ltd.
No.16 Cuiping Road, Huixing Sub-district, Yubei District, Chongqing
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401120
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9C-9E-03 (hex) awayfrom
9C9E03 (base 16) awayfrom
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bucheon-si Gyeonnggi-do 14556
KR

64-D8-1B (hex) Vestel Elektronik San ve Tic. A.S.
64D81B (base 16) Vestel Elektronik San ve Tic. A.S.
Organize san
Manisa Turket 45030
TR

30-DC-E7 (hex) zte corporation
30DCE7 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
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D0-12-55 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
D01255 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.2,Jin-da Road,Huinan Industrial Park
Hui Zhou Guangdong 516025
CN

3C-2D-9E (hex) Vantiva - Connected Home
3C2D9E (base 16) Vantiva - Connected Home
4855 Peachtree Industrial Blvd, #200
Norcross GA 30092
US

08-C7-F5 (hex) Vantiva Connected Home - Technologies Telco
08C7F5 (base 16) Vantiva Connected Home
- Technologies Telco
4855 Peachtree Industrial Blvd, Suite 200
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C0-16-93 (hex) Xiaomi Communications Co Ltd
C01693 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
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CN

FC-5B-8C (hex) Xiaomi Communications Co Ltd
FC5B8C (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
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28-4E-44 (hex) HUAWEI TECHNOLOGIES CO.,LTD
284E44 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
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CN

80-2E-C3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
802EC3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D4-D6-59 (hex) Meta Platforms Technologies, LLC
D4D659 (base 16) Meta Platforms Technologies, LLC
1601 Willow
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Menlo Park CA 94025
US

80-05-3A (hex) CHeKT Inc.
80053A (base 16) CHeKT Inc.
5870 Greenwood Rd.
Shreveport LA 71119
US

D8-B3-2F (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
D8B32F (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

EC-90-C1 (hex) Samsung Electronics Co.,Ltd
EC90C1 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong

Gumi Gyeongbuk 730-350
KR

54-10-4F (hex) Samsung Electronics Co.,Ltd
54104F (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B0-54-76 (hex) Samsung Electronics Co.,Ltd
B05476 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

74-CA-60 (hex) Sonos, Inc.
74CA60 (base 16) Sonos, Inc.
614 Chapala Street
Santa Barbara CA
93101
US

8C-26-AA (hex) Apple, Inc.
8C26AA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

30-D9-59 (hex) Shanghai Longcheer Technology Co., Ltd.
30D959 (base 16) Shanghai Longcheer Technology Co., Ltd.
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Shanghai 200233
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00-78-39 (hex) Nokia
007839 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

10-8A-7B (hex) Nokia
108A7B (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

A0-52-AB (hex) AVM ELECTRONICS PTE LTD
A052AB (base 16) AVM ELECTRONICS PTE LTD

362, UPPER PAYA LEBAR ROAD, #05-07 Da Jin Factory Building
Singapore Singapore 534963
SG

90-62-3F (hex) Apple, Inc.
90623F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A8-BB-56 (hex) Apple, Inc.
A8BB56 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

28-2D-7F (hex) Apple, Inc.
282D7F
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-86-6F (hex) EM Microelectronic
F0866F (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

5C-B2-60 (hex) EM Microelectronic
5CB260 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

5C-07-A4 (hex) Ciena Corporation
5C07A4 (base 16) Ciena Corporation
900 International Drive
Linthicum MD 21090-2200
US

6C-6F-18 (hex) Stereotaxis, Inc.
6C6F18 (base 16) Stereotaxis, Inc.
710 N. Tucker Blvd, Suite 110
St. Louis MO 63101
US

88-01-0C (hex) Sichuan Tianyi Comheart Telecom Co.,LTD

88010C (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

50-5B-1D (hex) Shenzhen C-Data Technology Co., Ltd.
505B1D (base 16) Shenzhen C-Data Technology Co., Ltd.
#201,
Building A4, Nanshan Zhiyuan, No.1001, Xueyuan Avenue, Changyuan Community,Taoyuan,Nanshan
Shenzhen Guangdong 518055
CN

BC-54-FC (hex) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
BC54FC (base 16) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
6th Floor, South Section, Building 23, Keyuan West, NO.1 Kezhi West Road, Science and Technology Community, Yuehai Street, Nanshan District
Shenzhen Guangdong 518057
CN

90-76-9F (hex) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
90769F (base 16) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
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Shenzhen Guangdong 518057
CN

4C-77-66 (hex) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
4C7766 (base 16) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
6th Floor, South Section, Building 23, Keyuan West, NO.1
Kezhi West Road, Science and Technology Community, Yuehai Street, Nanshan District
Shenzhen Guangdong 518057
CN

00-5C-C2 (hex) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
005CC2 (base 16) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
6th Floor, South Section, Building 23, Keyuan West, NO.1 Kezhi West Road, Science and Technology Community, Yuehai Street, Nanshan District
Shenzhen Guangdong 518057
CN

58-1D-C9 (hex) MSE CO.,LTD.
581DC9 (base 16) MSE CO.,LTD.
3-1-6, Kyutaromachi, Chuo-ku,
OSAKA OSAKA 5410056
JP

CC-7B-5C (hex) Espressif Inc.
CC7B5C (base 16) Espressif Inc.

Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
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FC-E8-C0 (hex) Espressif Inc.
FCE8C0 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
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CN

00-4B-F3 (hex) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
004BF3 (base
16) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
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88-54-8E (hex) vivo Mobile Communication Co., Ltd.
88548E (base 16) vivo Mobile Communication Co., Ltd.
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BC-74-4B (hex) Nintendo Co.,Ltd
BC744B (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

D8-7A-3B (hex) Silicon Laboratories
D87A3B (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

3C-2E-F5 (hex) Silicon Laboratories
3C2EF5 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

34-10-F4 (hex) Silicon Laboratories
3410F4 (base 16) Silicon Laboratories
400 West Cesar Chavez
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US

A4-9E-69
(hex) Silicon Laboratories
A49E69 (base 16) Silicon Laboratories
400 West Cesar Chavez
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US

F0-82-C0 (hex) Silicon Laboratories
F082C0 (base 16) Silicon Laboratories
400 West Cesar Chavez
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US

0C-EF-F6 (hex) Silicon Laboratories
0CEFF6 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

EC-F6-4C (hex) Silicon Laboratories
ECF64C (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

90-AB-96 (hex) Silicon Laboratories
90AB96 (base 16) Silicon Laboratories
400 West Cesar Chavez
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US

60-EF-AB (hex) Silicon Laboratories
60EFAB (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

48-8E-B7 (hex) Zebra Technologies Inc.
488EB7 (base 16) Zebra Technologies Inc.
ONE ZEBRA PLAZA
HOLTSVILLE NY 11742
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0C-82-D5 (hex) Maxio Technology
Hangzhou Co., Ltd.
0C82D5 (base 16) Maxio Technology Hangzhou Co., Ltd.
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Hangzhou 310000

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04-01-BB (hex) TECNO MOBILE LIMITED
0401BB (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

AC-72-DD (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
AC72DD (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
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64-BB-1E (hex) Earda Technologies co Ltd
64BB1E (base 16) Earda Technologies co Ltd
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FC-D2-90 (hex) SKY UK LIMITED
FCD290 (base 16) SKY UK LIMITED
Grant Way
Isleworth Middlesex TW7 5QD
GB

78-30-5D
(hex) zte corporation
78305D (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
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94-0B-83 (hex) zte corporation
940B83 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
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7C-D3-E5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
7CD3E5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
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64-82-14 (hex) FN-LINK TECHNOLOGY Ltd.
648214 (base 16) FN-LINK TECHNOLOGY Ltd.

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E09CE5 (base 16) Shanghai Tricheer Technology Co.,Ltd.
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E4-74-50
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Shenzhen Guangdong 518116
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70-C9-12 (hex) Sichuan AI-Link Technology Co., Ltd.
70C912 (base 16) Sichuan AI-Link Technology Co., Ltd.
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Mianyang Sichuan 622650
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B4-A3-BD (hex) Extreme Networks Headquarters
B4A3BD (base 16) Extreme Networks Headquarters
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B8-87-6E (hex) Intertech Services AG
B8876E (base 16) Intertech Services AG
Werftestrasse 4,
Luzern 6005
CH

3C-0B-4F (hex) Intertech Services AG
3C0B4F (base 16) Intertech Services AG
Werftestrasse 4,
Luzern 6005
CH

EC-19-2E (hex) Cisco Systems, Inc
EC192E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

84-E9-C1 (hex) Realme Chongqing Mobile Telecommunications

Corp.,Ltd.
84E9C1 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
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Chongqing China 401120
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6C-62-FE (hex) Juniper Networks
6C62FE (base 16) Juniper Networks
1133 Innovation Way
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9C-9E-D5 (hex) Xiaomi Communications Co Ltd
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74-38-22 (hex) Xiaomi Communications Co Ltd
743822 (base 16) Xiaomi Communications Co Ltd
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B83BAB (base 16) Arcadyan Corporation
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40-A6-3D (hex) SignalFire Telemetry
40A63D (base 16) SignalFire Telemetry
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60-54-64 (hex) Eyedro Green Solutions Inc.
605464 (base 16) Eyedro Green Solutions Inc.
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CC-E5-36 (hex) ittim
CCE536 (base 16) ittim
1202, No.6, Zhongguancun South Street, Haidian District,
beijing 100080
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C8-A2-3B (hex) Shenzhen Sundray Technologies Company Limited
C8A23B (base 16) Shenzhen Sundray Technologies Company Limited
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2C67BE (base 16) DWnet Technologies(Suzhou) Corporation
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BC-00-04 (hex) Fiberhome Telecommunication Technologies Co.,LTD
BC0004 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
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98-A8-29 (hex) AltoBeam Inc.
98A829 (base 16) AltoBeam Inc.
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CN

B4-62-2E (hex) Zhong Ge Smart Technology Co., Ltd.
B4622E (base 16) Zhong Ge Smart Technology Co., Ltd.
Zhong Ge Smart, 5th floor building G
Shanghai 201199
CN

C4-6E-33 (hex) Zhong Ge Smart Technology Co., Ltd.
C46E33 (base 16) Zhong Ge Smart Technology Co., Ltd.
Zhong Ge Smart, 5th floor building G
Shanghai 201199
CN

F8-9D-9D (hex) Shenzhen MinewSemi Co.,LTD.
F89D9D (base 16) Shenzhen MinewSemi Co.,LTD.
3Floor, I Building, Gangzhilong Tech Park, No.6, Qinglong Road, Longhua District
Shenzhen 518109
CN

F8-96-FE (hex) LG Innotek
F896FE (base 16) LG Innotek
26, HANAMSANDAN 5BEON-RO
Gwangju Gwangsan-gu 506-731

KR

A4-C4-0D (hex) WAC Lighting
A4C40D (base 16) WAC Lighting
44 Harbor Park Dr
Port Washington NY
11050
US

58-30-6E (hex) Nokia
58306E (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

A8-CA-77 (hex) Amazon Technologies Inc.
A8CA77 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

24-1E-2B (hex) Zhejiang Cainiao Supply Chain Management Co., Ltd
241E2B (base 16) Zhejiang Cainiao Supply Chain Management Co., Ltd
Block B1, XIXI center, No.588 West Wenyi Road, Xihu District
Hangzhou Zhejiang 310000
CN

C4-A4-51 (hex) TECNO MOBILE LIMITED
C4A451 (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

14-2B-2F (hex) Espressif Inc.
142B2F (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

F0-61-F3 (hex) Comcast Cable Corporation
F061F3 (base 16) Comcast Cable Corporation
1800
Arch Street
Philadelphia PA 19103
US

D4-8D-26 (hex) LG Innotek

D48D26 (base 16) LG Innotek
26, HANAMSANDAN 5BEON-RO
Gwangju Gwangsan-gu 506-731
KR

D0-C9-07 (hex) Private
D0C907 (base 16) Private

F4-F2-8A (hex) HUAWEI TECHNOLOGIES CO.,LTD
F4F28A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-E3-00 (hex) HUAWEI TECHNOLOGIES CO.,LTD
94E300 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

0C-E5-B5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
0CE5B5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

FC-F7-38 (hex) HUAWEI TECHNOLOGIES CO.,LTD
FCF738 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

8C-86-2A
(hex) HUAWEI TECHNOLOGIES CO.,LTD
8C862A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C0-33-79 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C03379 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

AC-7F-8D (hex) Extreme Networks Headquarters
AC7F8D (base 16) Extreme Networks Headquarters
2121 RDU Center Drive

Morrisville NC 27560
US

04-2D-AD (hex) Areus GmbH
042DAD (base 16) Areus GmbH
Einsteinstrasse 13
Herrenberg Baden-Wuerttemberg 71083
DE

24-AC-AC (hex) Polar Electro Oy
24ACAC (base 16) Polar Electro Oy
Professorintie 5
Kempele 90440
FI

50-20-6B (hex) Copeland - Transportation Solutions ApS
50206B (base 16) Copeland - Transportation Solutions ApS
Boeletvej 1
Ry 8680
DK

78-1C-1E (hex) Chongqing
Yipingfang Technology Co., Ltd.
781C1E (base 16) Chongqing Yipingfang Technology Co., Ltd.
No. 1-10, Tieshan Road, Biquan Street, Bishan District, Chongqing
ChongQing 402760
CN

78-A1-3E (hex) New H3C Technologies Co., Ltd
78A13E (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

48-CA-43 (hex) Espressif Inc.
48CA43 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

44-90-46 (hex) Honor Device Co., Ltd.
449046 (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District
Shenzhen Guangdong 518040
CN

94-F6-F2 (hex) Honor Device Co., Ltd.

94F6F2 (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District
Shenzhen
Guangdong 518040
CN

B0-C3-8E (hex) Huawei Device Co., Ltd.
B0C38E (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

14-3B-51 (hex) Huawei Device Co., Ltd.
143B51 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

D0-73-80 (hex) Huawei Device Co., Ltd.
D07380 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

10-47-E7 (hex) Shenzhen YOUHUA Technology Co., Ltd
1047E7 (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

80-D1-0A (hex) Sichuan AI-Link Technology Co., Ltd.
80D10A (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou, Industrial Park
Mianyang Sichuan 622650
CN

AC-FC-E3 (hex) EM
Microelectronic
ACFCE3 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

B0-A7-D2 (hex) Fiberhome Telecommunication Technologies Co.,LTD
B0A7D2 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074

CN

8C-87-D0 (hex) Shenzhen Uascent Technology Co.,Ltd
8C87D0 (base 16) Shenzhen Uascent Technology Co.,Ltd
701, block D, building 1, Lot 1, Chuangzhi Yuncheng building, Liuxian Avenue, Xili street, Nanshan District
Shenzhen 518000
CN

5C-17-83 (hex) Edgecore Americas Networking Corporation
5C1783 (base 16) Edgecore Americas Networking Corporation
20 Mason
Irvine CA 92618
US

7C-BA-C0 (hex) EVBox BV
7CBAC0 (base 16) EVBox BV
Kabelweg 47
Amsterdam Noord holland 1014 BA
NL

98-25-6E (hex) Private
98256E (base 16) Private

D4-13-B3 (hex) Wu Qi Technologies,Inc.
D413B3 (base 16) Wu Qi Technologies,Inc.
14/F,
107 Middle Road, Xiantao Big Data Valley, Yubei District
Chongqing Chongqing 401120
CN

64-70-60 (hex) Texas Instruments
647060 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

00-AA-FD (hex) Texas Instruments
00AAFD (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

60-E5-D8 (hex) zte corporation
60E5D8 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

54-35-E9 (hex) Feitian Technologies Co., Ltd
5435E9 (base 16) Feitian Technologies Co., Ltd
Floor 17, Tower B, Huizhi Mansion, No.9 Xueqing Rd, Haidian District
Beijing 100085
CN

7C-B5-9F (hex) HUAWEI TECHNOLOGIES CO.,LTD
7CB59F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

50-5C-88 (hex) Cisco Systems, Inc
505C88 (base 16) Cisco Systems, Inc
80
West Tasman Drive
San Jose CA 94568
US

0C-4B-EE (hex) Texas Instruments
0C4BEE (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

30-13-8B (hex) HP Inc.
30138B (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

60-68-32 (hex) Guangdong Seneasy Intelligent Technology Co., Ltd.
606832 (base 16) Guangdong Seneasy Intelligent Technology Co., Ltd.
No. 63, Huitai Industrial Park,
Huizhou City, Guangdong Province 516000
CN

84-33-F2 (hex) Shenzhen Stellamore Technology Co.,Ltd
8433F2 (base 16) Shenzhen Stellamore Technology Co.,Ltd
8th Floor, R&D Complex BuildingBaoyunda Logistics CenterFuhua Community, Xixiang Street, Bao'an
Shenzhen Guangdong 518100
CN

28-D0-43 (hex) AzureWave Technology Inc.
28D043 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

E4-D3-AA (hex) FCNT LLC
E4D3AA (base 16) FCNT LLC
Sanki
Yamato Building, 7-10-1 Chuorinkan
Yamato Kanagawa 242-8588
JP

B0-D5-76 (hex) Apple, Inc.
B0D576 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

14-28-76 (hex) Apple, Inc.
142876 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

14-7F-CE (hex) Apple, Inc.
147FCE (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

6C-C3-B2 (hex) Cisco Meraki
6CC3B2 (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco 94158
US

F8-CE-07 (hex) ZHEJIANG DAHUA TECHNOLOGYCO.,LTD
F8CE07 (base 16) ZHEJIANG DAHUA TECHNOLOGYCO.,LTD
1st Floor, Building 1, No. 1399, Binxing Road, Changhe Street, Binjiang District
Hangzhou City Zhejiang Province 311200
CN

20-98-ED (hex) AltoBeam Inc.
2098ED (base 16) AltoBeam Inc.
B808, Tsinghua Tongfang Hi-Tech Plaza, Haidian
Beijing Beijing 100083
CN

F8-8F-C8 (hex) Chipsea Technologies
(Shenzhen) Corp.
F88FC8 (base 16) Chipsea Technologies (Shenzhen) Corp.
3 / F, Block A, Building 2, Shenzhen Bay Innovation Technology Center, No.3156 keyuan South Road, Yuehai

Street, Nanshan District, Shenzhen
Shenzhen Guangdong 518000
CN

4C-10-D5 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
4C10D5 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

98-39-10 (hex) Kaon Group Co., Ltd.
983910 (base 16) Kaon Group Co., Ltd.
884-3, Seongnam-daero, Bundang-gu
Seongnam-si Gyeonggi-do 13517
KR

80-4C-5D (hex) NXP Semiconductor (Tianjin) LTD.
804C5D (base 16) NXP Semiconductor (Tianjin) LTD.
No.15 Xinghua Avenue, Xiqing Economic Development Area
Tianjin 300385
CN

28-91-76 (hex) Indyme Solutions, LLC
289176 (base 16) Indyme Solutions, LLC
8295 Aero Place Ste 260
San Diego CA
92123
US

28-A0-6B (hex) Intel Corporate
28A06B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

7C-8B-C1 (hex) Infinix mobility limited
7C8BC1 (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

3C-CA-61 (hex) TECNO MOBILE LIMITED
3CCA61 (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

EC-A9-71 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
ECA971 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

E0-08-55 (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
E00855 (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin
10559
DE

68-A2-AA (hex) Acres Manufacturing
68A2AA (base 16) Acres Manufacturing
6415 S Tenaya Way
Las Vegas NV 89113
US

88-AE-35 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
88AE35 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

70-49-A2 (hex) Zyxel Communications Corporation
7049A2 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

A0-7D-9C (hex) Samsung Electronics Co.,Ltd
A07D9C (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F8-C3-F1 (hex) Raytron Photonics Co.,Ltd.
F8C3F1 (base 16) Raytron Photonics Co.,Ltd.
3rd Floor, Building A, No. 66 Huaxiu Road, Xinwu District
Wuxi 214000
CN

D8-95-63 (hex) Taiwan Digital Streaming Co.
D89563 (base 16) Taiwan
Digital Streaming Co.
No. 50-15, Ln. 60, Jianping 9th St., Anping Dist.

Tainan City 70848
TW

B0-0C-9D (hex) Quectel Wireless Solutions Co.,Ltd.
B00C9D (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

F0-AB-1F (hex) zte corporation
F0AB1F (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

7C-B3-0A (hex) zte corporation
7CB30A (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

B4-C7-99 (hex) Extreme Networks Headquarters
B4C799 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

58-69-6C (hex) Ruijie Networks Co.,LTD
58696C (base 16) Ruijie Networks Co.,LTD
19# Building,Star-net Science Plaza,Juyuanzhou, 618 Jinshan Road
Fuzhou
Fujian 350002
CN

90-B8-32 (hex) Extreme Networks Headquarters
90B832 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

9C-5D-12 (hex) Extreme Networks Headquarters
9C5D12 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

F0-9C-E9 (hex) Extreme Networks Headquarters
F09CE9 (base 16) Extreme Networks Headquarters

2121 RDU Center Drive
Morrisville NC 27560
US

C8-67-5E (hex) Extreme Networks Headquarters
C8675E (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

C4-13-E2 (hex) Extreme Networks Headquarters
C413E2 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

40-E3-17 (hex) Extreme Networks Headquarters
40E317 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

AC-4D-D9
(hex) Extreme Networks Headquarters
AC4DD9 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

F4-CE-48 (hex) Extreme Networks Headquarters
F4CE48 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

00-DC-B2 (hex) Extreme Networks Headquarters
00DCB2 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

8C-83-94 (hex) Arcadyan Corporation
8C8394 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

CC-14-BC (hex) Edifier International

CC14BC (base 16) Edifier International
Suit 2207, 22nd floor, Tower II, Lippo centre, 89 Queensway
Hong Kong 070
CN

E8-D3-EB (hex) eero inc.
E8D3EB (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

B0-10-4B (hex) Fiberhome Telecommunication Technologies Co.,LTD
B0104B
(base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

44-36-5D (hex) Shenzhen HippStor Technology Co., Ltd
44365D (base 16) Shenzhen HippStor Technology Co., Ltd
24F, 3176 South Keyuan Road,Nanshan
Shenzhen Guangdong 518000
CN

54-C0-78 (hex) Infinix mobility limited
54C078 (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

7C-BF-77 (hex) SPEEDTECH CORP.
7CBF77 (base 16) SPEEDTECH CORP.
No. 568, Sec. 1, Minsheng N. Rd., Guishan Dist., Taoyuan City 338, Taiwan
Taoyuan 338
TW

E8-17-11 (hex) Shenzhen Vipstech Co., Ltd
E81711 (base 16) Shenzhen Vipstech Co., Ltd
Building 10th, Baiwangxin Industrial Park, No. 1002 Songbai Road, Xili Street,
Shenzhen Guangdong 518100
CN

20-0B-74 (hex) AzureWave Technology Inc.
200B74 (base 16) AzureWave
Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231

TW

F8-FE-5E (hex) Intel Corporate
F8FE5E (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-25-DF (hex) Taser International Inc.
0025DF (base 16) Taser International Inc.
17800 N 85th St.
Scottsdale AZ 85255
US

4C-62-DF (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
4C62DF (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

10-28-74 (hex) Shenzhen Jingxun Technology Co., Ltd.
102874 (base 16) Shenzhen Jingxun Technology Co., Ltd.
3/F, A5 Building, Zhiyuan Community, No. 1001, Xueyuan Road, Nanshan District
Shenzhen 518071
CN

7C-73-98 (hex) Espressif Inc.
7C7398 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

6C-B4-56 (hex) Espressif Inc.
6CB456
(base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

E4-E2-6C (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
E4E26C (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

88-F9-16 (hex) Qingdao Dayu Dance Digital Technology Co.,Ltd
88F916 (base 16) Qingdao Dayu Dance Digital Technology Co.,Ltd
151 Huizhiqiao Road, High tech Zone, Qingdao, Shandong Province

Qingdao shandong 266114
CN

38-C0-EA (hex) Fortinet, Inc.
38C0EA (base 16) Fortinet, Inc.
899 Kifer Road
Sunnyvale 94086
US

D0-94-CF (hex) HUAWEI TECHNOLOGIES CO.,LTD
D094CF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-38-55 (hex) Scopus International Pvt. Ltd.
043855 (base 16) Scopus International Pvt. Ltd.
A-46, Ground
floor, Pandav Nagar, Ganesh ngr complex,
New Delhi Delhi 110092
IN

9C-49-52 (hex) Dongguan Liesheng Electronic Co., Ltd.
9C4952 (base 16) Dongguan Liesheng Electronic Co., Ltd.
F5, Building B, North Block, Gaosheng Tech Park, No. 84 Zhongli Road, Nancheng District, Dongguan Ci
dongguan guangdong 523000
CN

C0-22-F1 (hex) IEEE Registration Authority
C022F1 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

44-6D-05 (hex) NoTraffic
446D05 (base 16) NoTraffic
Yigal Alon 53
Tel Aviv 6706206
IL

30-30-F9 (hex) Espressif Inc.
3030F9 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

54-22-59 (hex) HUAWEI TECHNOLOGIES CO.,LTD
542259 (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-14-71 (hex) HUAWEI TECHNOLOGIES CO.,LTD
041471
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C8-16-A5 (hex) Masimo Corporation
C816A5 (base 16) Masimo Corporation
52 Discovery
Irvine CA 92618
US

18-C0-09 (hex) New H3C Technologies Co., Ltd
18C009 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

70-61-73 (hex) Calantec GmbH
706173 (base 16) Calantec GmbH
Handwerkerstr. 10
Hoppegarten 15366
DE

C8-9D-6D (hex) ITEL MOBILE LIMITED
C89D6D (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

EC-AB-3E (hex) ESSYS
ECAB3E (base 16) ESSYS
gaetbeol-ro
Incheon 21999
KR

38-4A-80 (hex) Samsung Electronics Co.,Ltd
384A80 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi
Gyeongbuk 730-350
KR

90-0E-9E (hex) Shenzhen SuperElectron Technology Co.,Ltd.
900E9E (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

54-F2-9F (hex) HUNAN FN-LINK TECHNOLOGY LIMITED
54F29F (base 16) HUNAN FN-LINK TECHNOLOGY LIMITED
No.8, Litong Road, Liuyan Economic & Tec
Changsha HUNAN 410329
CN

C8-2E-18 (hex) Espressif Inc.
C82E18 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

E8-6B-EA (hex) Espressif Inc.
E86BEA (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

4C-A0-D4 (hex) Telink Semiconductor (Shanghai) Co., Ltd.
4CA0D4 (base 16) Telink Semiconductor (Shanghai) Co., Ltd.
No. 1500 Zuchongzhi Rd, Building #3
Shanghai
201203
CN

A8-B4-83 (hex) Shenzhen SuperElectron Technology Co.,Ltd.
A8B483 (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

68-55-D4 (hex) Seiko Epson Corporation
6855D4 (base 16) Seiko Epson Corporation
2070 Kotobuki Koaka
Matsumoto-shi Nagano-ken 399-8702
JP

D4-22-CD (hex) Movella Technologies B.V.
D422CD (base 16) Movella Technologies B.V.
Pantheon 6-a
Enschede 7521 PR
NL

0C-65-9A (hex) Panasonic Automotive Systems Company of America
0C659A (base 16) Panasonic Automotive Systems Company of America
776 Highway 74 South
Peachtree City 30269
US

00-40-9E (hex) Concurrent Technologies Ltd.
00409E (base 16) Concurrent Technologies Ltd.
4 Gilberd Court, Newcomen Way
Colchester CO4 9WN
GB

28-8E-B9 (hex) Wacom Co.,Ltd.
288EB9 (base
16) Wacom Co.,Ltd.
Sumitomo Fudosan Shinjuku Grand Tower 31F,8-17-1
Nishi-shinjuku,Shinjuku-ku Tokyo 160-6131
JP

BC-24-11 (hex) Proxmox Server Solutions GmbH
BC2411 (base 16) Proxmox Server Solutions GmbH
Braeuhausgasse 37
Vienna Vienna 1050
AT

DC-68-80 (hex) zte corporation
DC6880 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

28-BB-ED (hex) Bouffalo Lab (Nanjing) Co., Ltd.
28BBED (base 16) Bouffalo Lab (Nanjing) Co., Ltd.
5F,Building A, No. 9 Yunzheng Street, Jiangbei New District, Nanjing, China
Nanjing Jiangsu 211800
CN

34-4E-2F (hex) LEAR
344E2F (base 16) LEAR
Carrer Fuster 54
Valls Tarragona 43800
ES

98-ED-CA (hex) Fiberhome Telecommunication Technologies Co.,LTD
98EDCA (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074

CN

EC-B0-D2 (hex) EM
Microelectronic
ECB0D2 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

4C-EB-76 (hex) Murrelektronik GmbH
4CEB76 (base 16) Murrelektronik GmbH
Falkenstraße 3
Oppenweiler Baden-Württemberg 71570
DE

BC-8D-1F (hex) Cisco Systems, Inc
BC8D1F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

88-A6-EF (hex) IEEE Registration Authority
88A6EF (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

84-F5-EB (hex) zte corporation
84F5EB (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

D8-E7-2F (hex) Chipsea Technologies (Shenzhen) Corp.
D8E72F (base 16) Chipsea Technologies (Shenzhen) Corp.
3 / F, Block A, Building 2, Shenzhen Bay Innovation Technology Center, No.3156 keyuan South Road, Yuehai Street, Nanshan District, Shenzhen
Shenzhen
Guangdong 518000
CN

74-C7-6E (hex) RTK-TECHNOLOGIES, LLC
74C76E (base 16) RTK-TECHNOLOGIES, LLC
Yuzhnobutovskaya st., building 101, office 18
Moscow 117042
RU

C4-93-BB (hex) Beijing Xiaomi Mobile Software Co., Ltd

C493BB (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

E8-9C-25 (hex) ASUSTek COMPUTER INC.
E89C25 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

EC-C3-8A (hex) Accuenergy (CANADA) Inc
ECC38A (base 16) Accuenergy (CANADA) Inc
22 Howden Rd
Scarborough Ontario M1R 3E4
CA

14-99-3E (hex) Xiaomi Communications Co Ltd
14993E (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

78-46-7D (hex) SKAIChips
78467D (base 16) SKAIChips
Industry&Academy
Joint center 85412,2066,Seobu-ro
Jangan-gu,Suwon-si Gyeonggi-do 16419
KR

EC-74-8C (hex) Sony Interactive Entertainment Inc.
EC748C (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

B0-4F-A6 (hex) DongGuan Ramaxel Memory Technology
B04FA6 (base 16) DongGuan Ramaxel Memory Technology
No.32, Industrial East Road,Innovation Park, High-tech Industrial Development Zone, Songshan Lake, Dongguan City, Guangdong Province,China
DongGuan Guangdong 523808
CN

4C-99-92 (hex) vivo Mobile Communication Co., Ltd.
4C9992 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

04-57-91 (hex) Shenzhenshi Xinzhongxin Technology Co.Ltd
045791 (base 16) Shenzhenshi Xinzhongxin Technology Co.Ltd
Block 3, Dong Huan Industrial Park, Sha Jing Town, Bao'an District, Shenzhen City, Guangdong Province, China
ShenZHEN GuangDong
518104
CN

54-DF-1B (hex) Vestel Elektronik San ve Tic. A.S.
54DF1B (base 16) Vestel Elektronik San ve Tic. A.S.
Organize san
Manisa Turket 45030
TR

38-F9-F5 (hex) Garmin International
38F9F5 (base 16) Garmin International
1200 E. 151st St
Olathe KS 66062
US

60-BD-2C (hex) Taicang T&W Electronics
60BD2C (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

2C-4C-15 (hex) Juniper Networks
2C4C15 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

E4-10-88 (hex) Samsung Electronics Co.,Ltd
E41088 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-0C-C8 (hex) Xytronix Research & Design, Inc.
000CC8 (base 16) Xytronix Research & Design, Inc.
1681 West 2960 South
Nibley UT 84321
US

14-C0-50 (hex) GUANGDONG GENIUS TECHNOLOGY CO., LTD.
14C050 (base 16) GUANGDONG GENIUS TECHNOLOGY
CO., LTD.
No.168, Middle Road Of East Gate

Xiaobian Community Chang'an Town 523851
CN

44-1A-4C (hex) xFusion Digital Technologies Co.,Ltd.
441A4C (base 16) xFusion Digital Technologies Co.,Ltd.
9th Floor, Building 1, Zensun Boya Square, Longzihu Wisdom Island, Zhendong New District
Zhengzhou Henan 450000
CN

4C-62-CD (hex) Nokia
4C62CD (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

98-DA-92 (hex) Vuzix Corporation
98DA92 (base 16) Vuzix Corporation
25 Hendrix Rd
West Henrietta NY 14586
US

3C-52-A1 (hex) TP-Link Corporation Limited
3C52A1 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

9C-F8-6B (hex) AgiTech Distribution Limited - Linki
9CF86B (base 16) AgiTech Distribution Limited - Linki
Unit F, 11/F, CNT Tower, 338 Hennessy Road, Wan Chai
Hong Kong Hong Kong 999077
HK

10-71-FA
(hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
1071FA (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

78-46-5C (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
78465C (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

D0-DD-7C (hex) zte corporation
D0DD7C (base 16) zte corporation

12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

84-3C-99 (hex) zte corporation
843C99 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

F8-3B-1D (hex) Vantiva USA LLC
F83B1D (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

E4-BF-FA (hex) Vantiva
USA LLC
E4BFFA (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

1C-9D-72 (hex) Vantiva USA LLC
1C9D72 (base 16) Vantiva USA LLC
4855 Peachtree Industrial Blvd, Suite 20
Norcross GA 30902
US

3C-82-C0 (hex) Vantiva USA LLC
3C82C0 (base 16) Vantiva USA LLC
4855 Peachtree Industrial Blvd, Suite 20
Norcross GA 30902
US

80-DA-C2 (hex) Vantiva USA LLC
80DAC2 (base 16) Vantiva USA LLC
4855 Peachtree Industrial Blvd, Suite 20
Norcross GA 30902
US

48-1B-40 (hex) Vantiva USA LLC
481B40 (base 16) Vantiva USA LLC
4855 Peachtree Industrial Blvd, Suite 20
Norcross GA 30902
US

B8-5E-71 (hex) Vantiva USA LLC

B85E71 (base 16) Vantiva USA LLC
4855 Peachtree Industrial Blvd, Suite 20
Norcross GA 30902
US

40-0F-C1 (hex) Vantiva USA LLC
400FC1 (base 16) Vantiva USA LLC
4855 Peachtree Industrial Blvd, Suite 20
Norcross GA
30902
US

10-7B-93 (hex) Zhen Shi Information Technology (Shanghai) Co., Ltd.
107B93 (base 16) Zhen Shi Information Technology (Shanghai) Co., Ltd.
5F, Building 3?No. 401 Caobao Road, Xuhui District, Shanghai, China
Shanghai Shanghai 200233
CN

70-5A-9E (hex) Vantiva USA LLC
705A9E (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

68-E5-9E (hex) Cisco Systems, Inc
68E59E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F8-E5-CE (hex) Apple, Inc.
F8E5CE (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

14-B7-F8 (hex) Vantiva USA LLC
14B7F8 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

10-62-D0 (hex) Vantiva USA LLC
1062D0 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

10-C2-5A (hex) Vantiva USA LLC
10C25A (base
16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

D0-8A-91 (hex) Vantiva USA LLC
D08A91 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

88-F7-C7 (hex) Vantiva USA LLC
88F7C7 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

0C-02-27 (hex) Vantiva USA LLC
0C0227 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

F4-C1-14 (hex) Vantiva USA LLC
F4C114 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

74-97-8E (hex) Nova Labs
74978E (base 16) Nova Labs
2202 S Figueroa St, #408
Los Angeles CA 90007
US

08-23-C6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
0823C6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

50-E4-E0 (hex) Aruba,
a Hewlett Packard Enterprise Company
50E4E0 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054

US

70-36-B2 (hex) Focusai Corp
7036B2 (base 16) Focusai Corp
530 Lakeside Dr Suite 180
Sunnyvale CA 94085
US

4C-D7-17 (hex) Dell Inc.
4CD717 (base 16) Dell Inc.
One Dell Way
Round Rock 78682
US

C8-7F-54 (hex) ASUSTek COMPUTER INC.
C87F54 (base 16) ASUSTek COMPUTER INC.
No.15,Lide Rd., Beitou, Dist.,Taipei 112,Taiwan
Taipei Taiwan 112
TW

1C-C9-92 (hex) Honor Device Co., Ltd.
1CC992 (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District
Shenzhen Guangdong 518040
CN

08-D1-F9 (hex) Espressif Inc.
08D1F9 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

34-B7-DA (hex) Espressif
Inc.
34B7DA (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

00-C7-11 (hex) ITEL MOBILE LIMITED
00C711 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

34-8D-52 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
348D52 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD

No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

1C-86-0B (hex) Guangdong Taiying Technology Co.,Ltd
1C860B (base 16) Guangdong Taiying Technology Co.,Ltd
No 10. Wutai Road, Shutian, Humen Town
Dongguan Guangdong 523929
CN

74-D7-13 (hex) Huaqin Technology Co. LTD
74D713 (base 16) Huaqin Technology Co. LTD
Building 11, No. 399, Keyuan Road, Pudong New Area
Shanghai 201203
CN

2C-C3-E6 (hex) SHENZHEN BILIAN ELECTRONIC
CO.LTD
2CC3E6 (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268? Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

F0-20-FF (hex) Intel Corporate
F020FF (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C8-8A-9A (hex) Intel Corporate
C88A9A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

90-83-7E (hex) Fiberhome Telecommunication Technologies Co.,LTD
90837E (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

CC-B0-71 (hex) Fiberhome Telecommunication Technologies Co.,LTD
CCB071 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

48-55-41 (hex) Iskratel d.o.o.

485541 (base 16) Iskratel d.o.o.
Ljubljanska cesta 24a
Kranj 4000
SI

F0-90-08 (hex) Shenzhen Skyworth
Digital Technology CO., Ltd
F09008 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

C8-4C-78 (hex) zte corporation
C84C78 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

80-2D-1A (hex) zte corporation
802D1A (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

68-23-F4 (hex) Shenzhen Jinlangxin Technology Co., Ltd
6823F4 (base 16) Shenzhen Jinlangxin Technology Co., Ltd
Rongchao Economic and Trade Center A309, No. 4028, Jintian Road, Fuzhong Community, Lianhua Street, Futian District
Shenzhen Guangdong 518000
CN

A0-B3-39 (hex) Intel Corporate
A0B339 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

6C-F6-DA (hex) Intel Corporate
6CF6DA (base 16) Intel
Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C8-6B-BC (hex) IEEE Registration Authority
C86BBC (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554

US

30-60-0A (hex) CIG SHANGHAI CO LTD
30600A (base 16) CIG SHANGHAI CO LTD
5th Floor, Building 8 No 2388 Chenhang Road
SHANGHAI 201114
CN

30-2F-1E (hex) SIEMENS AG
302F1E (base 16) SIEMENS AG
Oestliche Rheinbrückenstraße 50
Karlsruhe Baden-Württemberg 76181
DE

FC-B2-D6 (hex) CIG SHANGHAI CO LTD
FCB2D6 (base 16) CIG SHANGHAI CO LTD
5th Floor, Building 8 No 2388 Chenhang Road
SHANGHAI 201114
CN

60-FC-F1 (hex) Private
60FCF1 (base 16) Private

54-76-B2 (hex) Raisecom Technology CO., LTD
5476B2 (base 16) Raisecom Technology CO., LTD
No. 11, East Area, No. 10 Block, East Xibeiwang Road
Beijing 100094
CN

60-74-F4 (hex) Private
6074F4 (base 16) Private

A0-37-68 (hex) Shenzhen
E-Life Intelligence Technology Co.,Ltd.
A03768 (base 16) Shenzhen E-Life Intelligence Technology Co.,Ltd.
2/F, Wanji Industrial Park, No.39, the 2th Keji Middle Road, Yuehai street, NanshanDist
Shenzhen Guangdong 518000
CN

44-FA-66 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
44FA66 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

84-7A-DF (hex) FUJIAN STAR-NET COMMUNICATION CO.,LTD
847ADF (base 16) FUJIAN STAR-NET COMMUNICATION CO.,LTD
19-22# Building, Star-net Science Plaza, Juyuanzhou,

FUZHOU FUJIAN 350002
CN

68-13-F3 (hex) Amazon Technologies Inc.
6813F3 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

80-6D-97 (hex) Private
806D97 (base 16) Private

28-EB-0A (hex) Rolling Wireless S.a.r.l. Luxembourg
28EB0A (base 16) Rolling
Wireless S.a.r.l. Luxembourg
15, rue Edward Steichen
Luxembourg Luxembourg 2540
LU

84-8A-59 (hex) Hisilicon Technologies Co., Ltd
848A59 (base 16) Hisilicon Technologies Co., Ltd
Longgang District
Shenzhen Guandong 518129
CN

DC-CD-66 (hex) NXP Semiconductor (Tianjin) LTD.
DCCD66 (base 16) NXP Semiconductor (Tianjin) LTD.
No.15 Xinghua Avenue, Xiqing Economic Development Area
Tianjin 300385
CN

B0-FF-72 (hex) IEEE Registration Authority
B0FF72 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

64-9A-63 (hex) Ring LLC
649A63 (base 16) Ring LLC
1523 26th St
Santa Monica CA 90404
US

10-28-34 (hex) SALZ Automation GmbH
102834 (base 16) SALZ Automation GmbH
Max-Planck-Strasse 64
Bald Salzuflen 32107
DE

44-63-70 (hex) LCFC(HeFei) Electronics Technology co., ltd
446370 (base 16) LCFC(HeFei) Electronics Technology co., ltd
No.3188-1,YunGu
Road(Comprehensive Bonded Zone),Hefei Economic and Technological Development Area
HEFEI ANHUI 230601
CN

4C-70-CC (hex) Blyott NV
4C70CC (base 16) Blyott NV
Gaston Crommelaan 8
Ghent 9050
BE

58-68-61 (hex) VIASAT, INCORPORATED
586861 (base 16) VIASAT, INCORPORATED
6155 El Camino Real
Carlsbad 92009
US

14-C9-CF (hex) Sigmastar Technology Ltd.
14C9CF (base 16) Sigmastar Technology Ltd.
No. 1, HoZan Road, Tong'an District
X iamen Fujian Province 361100
CN

14-85-54 (hex) Earda Technologies co Ltd
148554 (base 16) Earda Technologies co Ltd
Block A,Lianfeng Creative Park, #2 Jisheng Rd., Nansha District
Guangzhou Guangdong 511455
CN

60-C0-1E (hex) V&G Information System Co.,Ltd
60C01E (base 16) V&G Information System Co.,Ltd
2nd Floor,Block B,No.599 Gaojing Road,Qingpu District
Shangshai Shangshai 201702
CN

2C-3C-05 (hex) Marinesync Corp
2C3C05
(base 16) Marinesync Corp
3469 Kurtz Street
San Diego CA 92110
US

00-08-B9 (hex) Kaon Group Co., Ltd.
0008B9 (base 16) Kaon Group Co., Ltd.
#113 Imae 1-Dong, Bundang-Gu

Sungnam-City Kyungki-Do 463-829
KR

98-CC-F3 (hex) Amazon Technologies Inc.
98CCF3 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

50-91-E3 (hex) TP-Link Corporation Limited
5091E3 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

F0-21-78 (hex) UNIONMAN TECHNOLOGY CO.,LTD
F02178 (base 16) UNIONMAN TECHNOLOGY CO.,LTD
No.5,Huitai Road,Huinan High-Tech Park,Huiao Highway
Huizhou Guangdong 516025
CN

2C-3E-BF (hex) HOSIN Global Electronics Co., Ltd.
2C3EBF (base 16) HOSIN Global Electronics Co., Ltd.
Room 25,Block 2, Shenzhen New Generation Industrial Park, no.136 ZhongKang Road, Meidu community, Meilin Street,
Futian District
Shenzhen Guangzhou 518000
CN

40-D5-63 (hex) HANA Electronics
40D563 (base 16) HANA Electronics
Av. Abiurana, 450
Manaus Amazonas 69075-010
BR

34-88-18 (hex) Cisco Systems, Inc
348818 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-50-01 (hex) YAMASHITA SYSTEMS CORP.
005001 (base 16) YAMASHITA SYSTEMS CORP.
4-8-10 HIGASHISHINAGAWA
SHINAGAWA-KU 140-0002
JP

6C-EE-F7 (hex) shenzhen scodeno technology co., Ltd.

6CEEF7 (base 16) shenzhen scodeno technology co., Ltd.
2F, Building 6,Silicon Valley Power Digital Park, Dafu Road, Guanlan, Longhua District,Shenzhen
shenzhen Guangdong 518110
CN

B4-40-DC (hex) Samsung Electronics Co.,Ltd
B440DC (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

3C-33-32 (hex) D-Link Corporation
3C3332 (base 16) D-Link Corporation
No.289, Sinhu 3rd Rd.,
Neihu District,
Taipei City 114
TW

DC-2D-DE (hex) Ledworks SRL
DC2DDE (base 16) Ledworks SRL
Via Tortona 37
Milano Milano 20144
IT

64-17-CD (hex) Samsung Electronics Co.,Ltd
6417CD (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

DC-69-E2 (hex) Samsung Electronics Co.,Ltd
DC69E2 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C0-50-64 (hex) SHENNAN CIRCUITS CO.,LTD
C05064 (base 16) SHENNAN CIRCUITS CO.,LTD
Gao Qiao Industrial Park East,Long Gang District,
Shenzhen Guangdong 518117
CN

9C-FB-77 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
9CFB77 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

64-3E-0A (hex) HUAWEI TECHNOLOGIES CO.,LTD
643E0A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan
Lake Technology Park
Dongguan 523808
CN

14-33-75 (hex) Zyxel Communications Corporation
143375 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

2C-FE-E2 (hex) Qingdao Hisense Communications Co.,Ltd.
2CFEE2 (base 16) Qingdao Hisense Communications Co.,Ltd.
Qianwangang Road 218
Qingdao Shandong 266510
CN

00-14-57 (hex) Nevion
001457 (base 16) Nevion
Lysaker Torg 5
Lysaker NO-1366
NO

C4-D6-66 (hex) Cisco Meraki
C4D666 (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco 94158
US

18-DE-50 (hex) Tuya Smart Inc.
18DE50 (base 16) Tuya Smart Inc.
160 Greentree Drive, Suite 101
Dover DE 19904
US

94-79-18 (hex) ITEL MOBILE LIMITED
947918 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

68-F0-B5
(hex) Honor Device Co., Ltd.
68F0B5 (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District

Shenzhen Guangdong 518040
CN

10-18-49 (hex) WEIFANG GOERTEK ELECTRONICS CO.,LTD
101849 (base 16) WEIFANG GOERTEK ELECTRONICS CO.,LTD
Gaoxin 2 Road, Free Trade Zone,Weifang,Shandong,261205,P.R.China
Weifang Shandong 261205
CN

08-F9-E0 (hex) Espressif Inc.
08F9E0 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

00-36-D7 (hex) Keltron IOT Corp.
0036D7 (base 16) Keltron IOT Corp.
1110 Beaumont Rd
Roanoke VA 24019
US

34-DC-99 (hex) New H3C Technologies Co., Ltd
34DC99 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

5C-E8-D3 (hex) Signalinks Communication Technology Co.,
Ltd
5CE8D3 (base 16) Signalinks Communication Technology Co., Ltd
3F,Building No.6, Donglongxing Technology Park, Huanning Road,Xinshi Community, Dalang Street, Longhua District, Shenzhen.
Shenzhen 518000
CN

44-05-3F (hex) Sagemcom Broadband SAS
44053F (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

80-80-2C (hex) Fortinet, Inc.
80802C (base 16) Fortinet, Inc.
899 Kifer Road
Sunnyvale 94086
US

48-31-B7 (hex) Espressif Inc.

4831B7 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

54-32-04 (hex) Espressif Inc.
543204 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

CC-B5-4C (hex) Texas Instruments
CCB54C (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

74-A5-8C (hex) Texas Instruments
74A58C
(base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

3C-E0-02 (hex) Texas Instruments
3CE002 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

40-2A-8F (hex) Shanghai High-Flying Electronics Technology Co., Ltd
402A8F (base 16) Shanghai High-Flying Electronics Technology Co., Ltd
Room 1002,#1Building,No.3000 Longdong Avenue,Pudong
Shanghai Shanghai 201202
CN

B0-38-93 (hex) Onda TLC Italia S.r.l.
B03893 (base 16) Onda TLC Italia S.r.l.
Via Antonio Chinotto 1
Roma 00195
IT

28-C1-A0 (hex) Apple, Inc.
28C1A0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

EC-2C-73 (hex) Apple, Inc.
EC2C73 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

7C-C0-6F (hex) Apple, Inc.
7CC06F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

EC-81-50 (hex) Apple, Inc.
EC8150 (base
16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D4-2F-CA (hex) Apple, Inc.
D42FCA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D0-58-A5 (hex) Apple, Inc.
D058A5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B0-97-38 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
B09738 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

B8-60-61 (hex) China Mobile Group Device Co.,Ltd.
B86061 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

8C-DF-2C (hex) vivo Mobile Communication Co., Ltd.
8CDF2C (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

F8-79-28 (hex) zte corporation
F87928 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen
guangdong 518057
CN

2C-67-AB (hex) EZELINK TELECOM
2C67AB (base 16) EZELINK TELECOM
Bay Square Building 06 - Office No 105
Dubai Dubai 111581
AE

2C-D7-FF (hex) LANCOM Systems GmbH
2CD7FF (base 16) LANCOM Systems GmbH
Adenauer Straße 20 /B2
Würselen 52146
DE

98-03-8A (hex) Texas Instruments
98038A (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

F8-B8-B4 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
F8B8B4 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

68-1A-A4 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
681AA4 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

48-55-5E (hex) Shenzhen Skyworth Digital Technology CO., Ltd
48555E (base 16) Shenzhen Skyworth Digital
Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

70-06-92 (hex) IEEE Registration Authority
700692 (base 16) IEEE Registration Authority
445 Hoes Lane

Piscataway NJ 08554
US

1C-88-0C (hex) Shenzhen Skyworth Digital Technology CO., Ltd
1C880C (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

34-85-11 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
348511 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

D8-8E-D4 (hex) eero inc.
D88ED4 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

94-3F-D6 (hex) Apple, Inc.
943FD6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

38-B5-C9 (hex) INGRAM MICRO SERVICES
38B5C9 (base 16) INGRAM MICRO SERVICES
100 CHEMIN
DE BAILLOT
MONTAUBAN 82000
FR

98-4B-06 (hex) HUAWEI TECHNOLOGIES CO.,LTD
984B06 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

AC-FF-6B (hex) HUAWEI TECHNOLOGIES CO.,LTD
ACFF6B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

84-4D-BE (hex) Fiberhome Telecommunication Technologies Co.,LTD
844DBE (base 16) Fiberhome Telecommunication Technologies Co.,LTD

No.5 DongXin Road
Wuhan Hubei 430074
CN

38-AB-16 (hex) NPO RTT LLC
38AB16 (base 16) NPO RTT LLC
Goncharnaya st, 30, bld 1, B529
Moscow Select State 115172
RU

44-A8-42 (hex) Dell Inc.
44A842 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

4C-76-25 (hex) Dell Inc.
4C7625 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

00-11-43 (hex) Dell
Inc.
001143 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

00-13-72 (hex) Dell Inc.
001372 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

00-18-8B (hex) Dell Inc.
00188B (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

80-B9-46 (hex) Nokia
80B946 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

F8-CA-B8 (hex) Dell Inc.

F8CAB8 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

F0-1F-AF (hex) Dell Inc.
F01FAF (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

18-A9-9B (hex) Dell Inc.
18A99B (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

F8-BC-12 (hex) Dell Inc.
F8BC12 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

00-20-67 (hex) Private
002067 (base 16) Private

AC-DE-48 (hex) Private
ACDE48 (base 16) Private

00-50-C7 (hex) Private
0050C7
(base 16) Private

E8-65-5F (hex) Dell Inc.
E8655F (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

E8-B2-65 (hex) Dell Inc.
E8B265 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

AC-91-A1 (hex) Dell Inc.
AC91A1 (base 16) Dell Inc.
One Dell Way

Round Rock TX 78682
US

C4-CB-E1 (hex) Dell Inc.
C4CBE1 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

38-14-28 (hex) Dell Inc.
381428 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

F4-EE-08 (hex) Dell Inc.
F4EE08 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

90-8D-6E (hex) Dell Inc.
908D6E (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

EC-2A-72 (hex) Dell Inc.
EC2A72 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

74-86-E2 (hex) Dell Inc.
7486E2 (base 16) Dell Inc.
One Dell
Way
Round Rock TX 78682
US

00-BE-43 (hex) Dell Inc.
00BE43 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

60-5B-30 (hex) Dell Inc.
605B30 (base 16) Dell Inc.

One Dell Way
Round Rock TX 78682
US

C8-4B-D6 (hex) Dell Inc.
C84BD6 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

B4-E1-0F (hex) Dell Inc.
B4E10F (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

18-66-DA (hex) Dell Inc.
1866DA (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

18-DB-F2 (hex) Dell Inc.
18DBF2 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

14-B3-1F (hex) Dell Inc.
14B31F (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

10-7D-1A (hex) Dell Inc.
107D1A (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

50-9A-4C (hex) Dell Inc.
509A4C (base 16) Dell Inc.
One
Dell Way
Round Rock TX 78682
US

24-71-52 (hex) Dell Inc.

247152 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

8C-47-BE (hex) Dell Inc.
8C47BE (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

60-18-95 (hex) Dell Inc.
601895 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

B0-4F-13 (hex) Dell Inc.
B04F13 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

40-5C-FD (hex) Dell Inc.
405CFD (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

D0-94-66 (hex) Dell Inc.
D09466 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

D8-9E-F3 (hex) Dell Inc.
D89EF3 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

10-65-30 (hex) Dell Inc.
106530 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

3C-2C-30 (hex) Dell Inc.

3C2C30 (base 16) Dell Inc.
One
Dell Way
Round Rock TX 78682
US

88-6F-D4 (hex) Dell Inc.
886FD4 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

5C-F9-DD (hex) Dell Inc.
5CF9DD (base 16) Dell Inc.
One Dell way
Round Rock 78682
US

00-4E-01 (hex) Dell Inc.
004E01 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

00-08-74 (hex) Dell Inc.
000874 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

00-24-E8 (hex) Dell Inc.
0024E8 (base 16) Dell Inc.
One Dell Way, MS RR5-45
Round Rock 78682
US

00-22-19 (hex) Dell Inc.
002219 (base 16) Dell Inc.
One Dell Way, MS RR5-45
Round Rock 78682
US

34-17-EB (hex) Dell Inc.
3417EB (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

B0-83-FE (hex) Dell Inc.
B083FE (base 16) Dell Inc.
One Dell way
Round Rock 78682
US

94-CB-CD (hex) zte corporation
94CBCD (base 16) zte
corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

80-5F-8E (hex) Huizhou BYD Electronic Co., Ltd.
805F8E (base 16) Huizhou BYD Electronic Co., Ltd.
Xiangshui River, Economic Development Zone, Daya Bay, Huizhou, Guangdong, China
Huizhou Guangdong 516000
CN

A8-3A-79 (hex) Mist Systems, Inc.
A83A79 (base 16) Mist Systems, Inc.
1601 South De Anza Blvd, Suite 248
Cupertino CA 95014
US

54-88-FE (hex) Xiaoniu network technology (Shanghai) Co., Ltd.
5488FE (base 16) Xiaoniu network technology (Shanghai) Co., Ltd.
Room 706, building 3, no.20 east road, jingan district.
Shang hai 200040
CN

F4-D5-80 (hex) YAMAHA CORPORATION
F4D580 (base 16) YAMAHA CORPORATION
10-1 Nakazawa-cho, Naka-ku
Hamamatsu Shizuoka 430-8650
JP

A8-52-D4 (hex) Aruba, a Hewlett Packard Enterprise Company
A852D4 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333
Scott Blvd
Santa Clara CA 95054
US

50-30-F4 (hex) Exascend, Inc.
5030F4 (base 16) Exascend, Inc.
530 Lawrence Expy., #416
Sunnyvale CA 94085

US

DC-EC-E3 (hex) LYOTECH LABS LLC
DCECE3 (base 16) LYOTECH LABS LLC
8 the Green suite R
Dover 19901
US

E4-90-69 (hex) Rockwell Automation
E49069 (base 16) Rockwell Automation
1 Allen-Bradley Dr.
Mayfield Heights OH 44124-6118
US

18-4C-08 (hex) Rockwell Automation
184C08 (base 16) Rockwell Automation
1 Allen-Bradley Dr.
Mayfield Heights OH 44124-6118
US

FC-35-E6 (hex) Visteon Corporation
FC35E6 (base 16) Visteon Corporation
One Village Center Dr
Belleville MI 48111
US

8C-BA-25 (hex) UNION MAN TECHNOLOGY CO.,LTD
8CBA25 (base 16) UNION MAN TECHNOLOGY CO.,LTD
No.5,Huitai Road,Huinan High-Tech Park,Huiao Highway
Huizhou Guangdong 516025
CN

54-72-5E (hex) UNION MAN TECHNOLOGY CO.,LTD
54725E
(base 16) UNION MAN TECHNOLOGY CO.,LTD
No.5,Huitai Road,Huinan High-Tech Park,Huiao Highway
Huizhou Guangdong 516025
CN

F8-14-FE (hex) UNION MAN TECHNOLOGY CO.,LTD
F814FE (base 16) UNION MAN TECHNOLOGY CO.,LTD
No.5, Huitai Road Huinan High-Tech Park,Huiao Highway
Huizhou Guangdong 516025
CN

CC-62-FE (hex) UNION MAN TECHNOLOGY CO.,LTD
CC62FE (base 16) UNION MAN TECHNOLOGY CO.,LTD
No.5,Huitai Road,Huinan High-Tech Park,Huiao Highway

Huizhou Guangdong 516025
CN

40-41-01 (hex) Rockwell Automation
404101 (base 16) Rockwell Automation
1 Allen-Bradley Dr.
Mayfield Heights OH 44124-6118
US

68-C8-EB (hex) Rockwell Automation
68C8EB (base 16) Rockwell Automation
1 Allen-Bradley Dr.
Mayfield Heights OH 44124-6118
US

7C-BF-AE (hex) Renesas Electronics (Penang) Sdn. Bhd.
7CBFAE (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang
11900
MY

80-AF-CA (hex) Shenzhen Cudy Technology Co., Ltd.
80AFCA (base 16) Shenzhen Cudy Technology Co., Ltd.
Room A606, Gaoxinqi Industrial Park, Baoan 67 Dist
Baoan 67 District, Shenzhen 518101
CN

1C-6E-74 (hex) EnOcean Edge Inc.
1C6E74 (base 16) EnOcean Edge Inc.
8184 S. Highland Dr. Ste C5
Sandy UT 84093
US

B4-17-A8 (hex) Meta Platforms Technologies, LLC
B417A8 (base 16) Meta Platforms Technologies, LLC
1 Hacker Way
Menlo Park CA 94025
US

C0-95-73 (hex) AIxLink
C09573 (base 16) AIxLink
Office 2702, Unit3, Building 1, Shudu Center Phase II. 333 Jiqing Third Road. High-Tech Zone
Chegndu Sichuan 610041
CN

04-47-2A (hex) Palo Alto Networks
04472A (base 16) Palo Alto Networks

3000 Tannery Way
Santa Clara CA 95054
US

C0-2C-17 (hex) Cisco Systems, Inc
C02C17 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

98-49-25 (hex) Juniper
Networks
984925 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

44-19-B6 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
4419B6 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.469,Jianghui Road
Hangzhou Zhejiang 310052
CN

7C-89-31 (hex) Huawei Device Co., Ltd.
7C8931 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

BC-5E-33 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
BC5E33 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

FC-9F-FD (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
FC9FFD (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

E8-A0-ED (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
E8A0ED (base 16) Hangzhou Hikvision Digital Technology
Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

5C-34-5B (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
5C345B (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

7C-ED-C6 (hex) Amazon Technologies Inc.
7CEDC6 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

48-25-F3 (hex) Huawei Device Co., Ltd.
4825F3 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C0-48-84 (hex) Sigma Bilisim Sist. Tekn. Elk. Enj. ve San. D??. Tic. Ltd. ?ti.
C04884 (base 16) Sigma Bilisim Sist. Tekn. Elk. Enj. ve San. D??. Tic. Ltd. ?ti.
CEV?ZL?DERE MAH. 1226. SOK. NO:14/1 AYTUNA APT.
ANKARA 06520
TR

4C-BD-8F (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
4CBD8F (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou
Zhejiang 310052
CN

F4-12-DA (hex) zte corporation
F412DA (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

54-02-95 (hex) HUAWEI TECHNOLOGIES CO.,LTD
540295 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C8-78-7D (hex) D-Link Corporation
C8787D (base 16) D-Link Corporation
No.289, Sinhu 3rd Rd., Neihu District,
Taipei City 114
TW

40-F2-1C (hex) DZS Inc.
40F21C (base 16) DZS Inc.
5700 Tennyson Parkway, Suite 400
Plano TX 75024
US

00-18-0C (hex) DZS Inc.
00180C (base 16) DZS Inc.
22A-1051 Baxter Road
Ottawa Ontario K2C 3P2
CA

00-E0-DF (hex) DZS Inc.
00E0DF (base 16) DZS Inc.
Wohlenbergstrasse. 3
Hannover 30179
DE

00-A0-1B (hex) DZS Inc.
00A01B (base 16) DZS Inc.
48664 MILMONT DRIVE
FREMONT CA 94538
US

D0-93-95
(hex) IEEE Registration Authority
D09395 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

F4-E2-C6 (hex) Ubiquiti Inc
F4E2C6 (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

D8-B3-70 (hex) Ubiquiti Inc
D8B370 (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

B0-A7-32 (hex) Espressif Inc.
B0A732 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203

CN

B0-B2-1C (hex) Espressif Inc.
B0B21C (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

B4-FB-E4 (hex) Ubiquiti Inc
B4FBE4 (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

68-72-51 (hex) Ubiquiti Inc
687251 (base 16) Ubiquiti Inc
685 Third Avenue,
27th Floor
New York NY New York NY 10017
US

E0-9B-27 (hex) Ciena Corporation
E09B27 (base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

FC-EC-DA (hex) Ubiquiti Inc
FCECDA (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

94-2A-6F (hex) Ubiquiti Inc
942A6F (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

8C-E0-42 (hex) vivo Mobile Communication Co., Ltd.
8CE042 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

40-71-83 (hex) Juniper Networks
407183 (base 16) Juniper Networks
1133 Innovation Way

Sunnyvale CA 94089
US

40-B4-F0 (hex) Juniper Networks
40B4F0 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

38-4F-49 (hex) Juniper Networks
384F49 (base 16) Juniper Networks
1133
Innovation Way
Sunnyvale CA 94089
US

58-00-BB (hex) Juniper Networks
5800BB (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

D0-07-CA (hex) Juniper Networks
D007CA (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

D8-B1-22 (hex) Juniper Networks
D8B122 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

9C-C8-93 (hex) Juniper Networks
9CC893 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

58-E4-34 (hex) Juniper Networks
58E434 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

B0-EB-7F (hex) Juniper Networks
B0EB7F (base 16) Juniper Networks

1133 Innovation Way
Sunnyvale CA 94089
US

28-B8-29 (hex) Juniper Networks
28B829 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

64-C3-D6 (hex) Juniper Networks
64C3D6
(base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

C0-BF-A7 (hex) Juniper Networks
C0BFA7 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

B0-33-A6 (hex) Juniper Networks
B033A6 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

20-1B-C9 (hex) Juniper Networks
201BC9 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

54-1E-56 (hex) Juniper Networks
541E56 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

88-A2-5E (hex) Juniper Networks
88A25E (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

00-31-46 (hex) Juniper Networks

003146 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

78-FE-3D (hex) Juniper Networks
78FE3D (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA
94089
US

64-87-88 (hex) Juniper Networks
648788 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

AC-4B-C8 (hex) Juniper Networks
AC4BC8 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

3C-94-D5 (hex) Juniper Networks
3C94D5 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

50-C7-09 (hex) Juniper Networks
50C709 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

00-C5-2C (hex) Juniper Networks
00C52C (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

B4-8A-5F (hex) Juniper Networks
B48A5F (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

E0-F6-2D (hex) Juniper Networks
E0F62D (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

EC-7C-5C (hex) Juniper Networks
EC7C5C (base 16) Juniper Networks
1133
Innovation Way
Sunnyvale CA 94089
US

DC-38-E1 (hex) Juniper Networks
DC38E1 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

CC-E1-7F (hex) Juniper Networks
CCE17F (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

80-7F-F8 (hex) Juniper Networks
807FF8 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

54-B7-BD (hex) Arcadyan Corporation
54B7BD (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

BC-73-A4 (hex) ANDA TELECOM PVT LTD
BC73A4 (base 16) ANDA TELECOM PVT LTD
E-36 Amar Colony, Lajpat Nagar, New Delhi
New Delhi Delhi 110024
IN

14-F5-F9 (hex) HUNAN FN-LINK TECHNOLOGY LIMITED
14F5F9 (base 16) HUNAN FN-LINK TECHNOLOGY LIMITED
No.8, Litong Road, Liuyan Economic & Tec
Changsha HUNAN 410329
CN

AC-17-54 (hex) tiko Energy Solutions AG
AC1754
(base 16) tiko Energy Solutions AG
Pflanzschulstrasse 7
Zürich Zürich 8004
CH

AC-E0-D6 (hex) koreabts
ACE0D6 (base 16) koreabts
362-11, Jongga-ro, Jung-gu, Ulsan, Republic of Korea
Ulsan 44428
KR

FC-57-03 (hex) Hisense broadband multimedia technology Co.,Ltd
FC5703 (base 16) Hisense broadband multimedia technology Co.,Ltd
Song ling Road 399
Qingdao 266000
CN

E8-97-B8 (hex) Chiun Mai Communication System, Inc
E897B8 (base 16) Chiun Mai Communication System, Inc
No.4, MingSheng St. TuCheng District
New Taipei City 23679
TW

94-F5-24 (hex) Chengdu BeiZhongWangXin Technology Co.Ltd
94F524 (base 16) Chengdu BeiZhongWangXin Technology Co.Ltd
Room 1209,Building 13,No.599,Middle YiZhou Avenue Chengdu, China
chengdu 610000
CN

60-FA-B1 (hex) Kempower Oyj
60FAB1 (base 16) Kempower Oyj
Ala-Okeroistentie 29
Lahti 15700
FI

A4-C2-3E (hex) Huizhou Speed
Wireless Technology Co.,Ltd
A4C23E (base 16) Huizhou Speed Wireless Technology Co.,Ltd
138 Huize Avenue, Shangxia District
Dongjiang Hi tech Industrial Park, Shuikou Huizhou, Guangdong 516000
CN

00-50-C4 (hex) IMD
0050C4 (base 16) IMD
Dornierstr. 4

Puchheim 82178
DE

00-1A-A6 (hex) Elbit Systems Deutschland GmbH & Co. KG
001AA6 (base 16) Elbit Systems Deutschland GmbH & Co. KG
Eberhard-Finckh-Strasse 55
Ulm Baden-Wurttemberg 89075
DE

7C-45-F9 (hex) IEEE Registration Authority
7C45F9 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

C0-EA-C3 (hex) IEEE Registration Authority
C0EAC3 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

FC-A0-F3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
FCA0F3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-A8-1C
(hex) HUAWEI TECHNOLOGIES CO.,LTD
04A81C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

30-40-74 (hex) zte corporation
304074 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

10-CF-0F (hex) Apple, Inc.
10CF0F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-63-8C (hex) Shenzhen Dttek Technology Co., Ltd.
D8638C (base 16) Shenzhen Dttek Technology Co., Ltd.

Unit 405,Building 2C,Shenzhen Software Industrial Base, 10th Hi-Tech South Road,Yuehai Street
Shenzhen Guangdong 518057
CN

1C-76-F2 (hex) Samsung Electronics Co.,Ltd
1C76F2 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

00-92-A5 (hex) LG Innotek
0092A5 (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu
506-731
KR

A0-10-77 (hex) zte corporation
A01077 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

7C-7A-3C (hex) New H3C Technologies Co., Ltd
7C7A3C (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

48-31-77 (hex) Nintendo Co.,Ltd
483177 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

14-0F-A6 (hex) Renesas Electronics (Penang) Sdn. Bhd.
140FA6 (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

14-84-73 (hex) Cisco Systems, Inc
148473 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

1C-CA-41 (hex) AO

1CCA41 (base 16) AO
Verhnyaya Krasnoselskaya, 11A, building 3, fl. 3, cab. 8.
Moscow 107140
RU

34-7D-E4 (hex) SHENZHEN
BILIAN ELECTRONIC CO.LTD
347DE4 (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268? Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

CC-CF-83 (hex) CIG SHANGHAI CO LTD
CCCF83 (base 16) CIG SHANGHAI CO LTD
5th Floor, Building 8 No 2388 Chenhang Road
SHANGHAI 201114
CN

B4-63-6F (hex) Nokia Solutions and Networks GmbH & Co. KG
B4636F (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

24-D3-37 (hex) Xiaomi Communications Co Ltd
24D337 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

90-31-4B (hex) AltoBeam Inc.
90314B (base 16) AltoBeam Inc.
B808, Tsinghua Tongfang Hi-Tech Plaza, Haidian
Beijing Beijing 100083
CN

20-5F-3D (hex) Adtran Inc
205F3D (base 16) Adtran Inc
Victory House, Vision
Park, Chivers Way, Histon
Cambridge CB24 9ZR
GB

3C-3B-4D (hex) Toyo Seisakusho Kaisha, Limited
3C3B4D (base 16) Toyo Seisakusho Kaisha, Limited
2-4-6 Honjyo
Higashi-Osaka Osaka 578-0953
JP

3C-BC-D0 (hex) zte corporation
3CBCD0 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

D0-A9-D3 (hex) EM Microelectronic
D0A9D3 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

14-DD-02 (hex) Liangang Optoelectronic Technology CO., Ltd.
14DD02 (base 16) Liangang Optoelectronic Technology CO., Ltd.
150 JingHai West Road,ShaQu Village ShaTou Area,ChangAn Town
DongGuan GuangDong 523846
CN

60-C7-27 (hex) Digiboard Eletronica da Amazonia Ltda
60C727 (base 16) Digiboard Eletronica da Amazonia Ltda
1111-A Matrinxa
Manaus Amazonia 69075-150
BR

64-6E-60 (hex) zte corporation
646E60 (base
16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

4C-42-1E (hex) Cisco Systems, Inc
4C421E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

64-B2-B4 (hex) Fiberhome Telecommunication Technologies Co.,LTD
64B2B4 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

48-31-DB (hex) Huawei Device Co., Ltd.
4831DB (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808

CN

04-F7-78 (hex) Sony Interactive Entertainment Inc.
04F778 (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

58-70-7F (hex) Ericsson AB
58707F (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

D0-39-FA (hex) Samsung Electronics Co.,Ltd
D039FA (base 16) Samsung Electronics
Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B4-0B-1D (hex) Samsung Electronics Co.,Ltd
B40B1D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

AC-80-FB (hex) Samsung Electronics Co.,Ltd
AC80FB (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

14-7F-0F (hex) Texas Instruments
147F0F (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

44-4A-D6 (hex) Shenzhen Rinocloud Technology Co.,Ltd.
444AD6 (base 16) Shenzhen Rinocloud Technology Co.,Ltd.
Qianhai Complex A201, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen,P.R.China
shenzhen guangdong 440300
CN

18-9E-AD (hex) Shenzhen Chengqian Information Technology Co., Ltd
189EAD (base 16) Shenzhen Chengqian Information Technology Co., Ltd
A730-731, Huafeng Internet Creative Park, No. 107 Gonghe Industrial Road, Xixiang Street,

Bao'an District
Shenzhen Guangdong 518100
CN

94-DD-F8 (hex) Brother Industries, LTD.
94DDF8 (base 16) Brother Industries, LTD.
15-1, Naeshirocho, Mizuho-ku
NAGOYA 4678561
JP

84-B3-86 (hex) IEEE Registration Authority
84B386 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

40-8E-F6 (hex) Infinix mobility limited
408EF6 (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

E0-2D-F0 (hex) ALPSALPINE CO,.LTD
E02DF0 (base 16) ALPSALPINE CO,.LTD
nishida 6-1
kakuda-City Miyagi-Pref 981-1595
JP

A4-5D-5E (hex) Wilk Elektronik S.A.
A45D5E (base 16) Wilk Elektronik S.A.
Mikolowska 42
Laziska Gorne Slaskie 43-173
PL

FC-31-5D (hex) Apple, Inc.
FC315D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

74-A6-CD (hex) Apple,
Inc.
74A6CD (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

2C-7C-F2 (hex) Apple, Inc.
2C7CF2 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

30-D7-A1 (hex) Apple, Inc.
30D7A1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

88-74-77 (hex) HUAWEI TECHNOLOGIES CO.,LTD
887477 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-72-7E (hex) WISDRI (wuhan) Automation Company Limited
A8727E (base 16) WISDRI (wuhan) Automation Company Limited
No. 9, Fenghuangyuan 1st Road, Donghu New Technology Development Zone
Wuhan Hubei 430000
CN

DC-D2-FD (hex) HUAWEI TECHNOLOGIES CO.,LTD
DCD2FD (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

58-73-D1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
5873D1
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

4C-B0-87 (hex) HUAWEI TECHNOLOGIES CO.,LTD
4CB087 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

88-B4-BE (hex) HUAWEI TECHNOLOGIES CO.,LTD
88B4BE (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-7B-AE (hex) Xiaomi Communications Co Ltd
947BAE (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

00-C2-8F (hex) Allied Telesis K.K.
00C28F (base 16) Allied Telesis K.K.
2nd. TOC Bldg. 7-21-11 Nishi-Gotanda, Shinagawa-ku, Tokyo
Tokyo 141-0031
JP

F4-2D-06 (hex) zte corporation
F42D06 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen
guangdong 518057
CN

1C-67-4A (hex) zte corporation
1C674A (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

7C-57-58 (hex) HP Inc.
7C5758 (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

C8-29-C8 (hex) Palo Alto Networks
C829C8 (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

9C-53-22 (hex) TP-Link Corporation Limited
9C5322 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

48-22-54 (hex) TP-Link Corporation Limited
482254 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077

HK

B4-E2-65 (hex) Shenzhen SDMC Technology CO.,Ltd.
B4E265 (base 16) Shenzhen SDMC Technology CO.,Ltd.
19/F, Changhong
Science & Technology Mansion, No.18, Keji South 12th Road, High-tech Industrial Park, Nanshan District
Shenzhen GUANGDONG 518027
CN

E0-38-2D (hex) IEEE Registration Authority
E0382D (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

98-BF-F4 (hex) MARKIN co., Ltd.
98BFF4 (base 16) MARKIN co., Ltd.
101 DONG 1303 HO 36, Bucheon 198beon-gil
Bucheon-si Gyeonggi-do 14557
KR

78-60-5B (hex) TP-LINK TECHNOLOGIES CO.,LTD.
78605B (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

04-F9-F8 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
04F9F8 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

38-47-F2 (hex) Recogni Inc
3847F2 (base
16) Recogni Inc
2590 N 1ST STSuite 320
San Jose CA 95131
US

D8-AD-49 (hex) Honor Device Co., Ltd.
D8AD49 (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District
Shenzhen Guangdong 518040
CN

38-F8-F6 (hex) Adtran Inc

38F8F6 (base 16) Adtran Inc
901 Explorer Blvd.
Huntsville AL 35806-2807
US

B4-84-D5 (hex) GooWi Wireless Technology Co., Limited
B484D5 (base 16) GooWi Wireless Technology Co., Limited
RM1601,Crative BuildingII East Tianan
City Futian Shenzhen Guangdong 518000
CN

54-07-7D (hex) NETGEAR
54077D (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

C4-53-79 (hex) Micronview Limited Liability Company
C45379 (base 16) Micronview Limited Liability Company
700 LAVACA, STE 1401 AUSTIN?TX 787015
AUSTIN 787015
US

80-4A-F2 (hex) Sonos, Inc.
804AF2 (base
16) Sonos, Inc.
614 Chapala St
Santa Barbara CA 93101
US

68-FC-B6 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
68FCB6 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

D8-31-2C (hex) zte corporation
D8312C (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

04-9F-15 (hex) Humane
049F15 (base 16) Humane
969 Folsom St
San Francisco CA 94062
US

38-38-A6 (hex) Arista Networks
3838A6 (base 16) Arista Networks
5453 Great America Parkway
Santa Clara CA 95054
US

50-23-6D (hex) Nintendo Co.,Ltd
50236D (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

A0-39-75 (hex) Leo Bodnar Electronics Ltd
A03975 (base 16) Leo Bodnar Electronics Ltd
Unit 8 New Rookery Farm
Silverstone NN12
8UP
GB

F4-27-56 (hex) DASAN Newtork Solutions
F42756 (base 16) DASAN Newtork Solutions
DASAN Tower, 49, Daewangpangyo-ro644Beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, 13493 KOREA
Seongnam-si Gyeonggi-do 13493
KR

E0-A1-CE (hex) zte corporation
E0A1CE (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

24-A6-FA (hex) WEIFANG GOERTEK ELECTRONICS CO.,LTD
24A6FA (base 16) WEIFANG GOERTEK ELECTRONICS CO.,LTD
Gaoxin 2 Road, Free Trade Zone,Weifang,Shandong,261205,P.R.China
Weifang Shandong 261205
CN

74-93-DA (hex) ASKEY COMPUTER CORP
7493DA (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

C8-4A-A0 (hex) Sony Interactive Entertainment Inc.
C84AA0 (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

4C-96-8A (hex) Wacom Co.,Ltd.
4C968A
(base 16) Wacom Co.,Ltd.
Sumitomo Fudosan Shinjuku Grand Tower 31F,8-17-1
Nishi-shinjuku,Shinjuku-ku Tokyo 160-6131
JP

EC-83-B7 (hex) PUWELL CLOUD TECH LIMITED
EC83B7 (base 16) PUWELL CLOUD TECH LIMITED
Room 1702, 17/F, Hong Kong Trade Centre, Nos. 161-167 Des Voeux Road Central, Hong Kong
Hong Kong 999077
HK

0C-64-22 (hex) Beijing Wiseasy Technology Co.,Ltd.
0C6422 (base 16) Beijing Wiseasy Technology Co.,Ltd.
Room 01 , 27th Floor, No. 1 Building , No. 36 Xiaoyun Road, Chaoyang District
Beijing 100027
CN

C8-F2-B4 (hex) Guizhou Huaxin Information Technology Co., Ltd.
C8F2B4 (base 16) Guizhou Huaxin Information Technology Co., Ltd.
Building 1#, Electronic Information Industry Park of Machang Town, Guian New Area, Guizhou Province.
Gui'an New Area Guizhou Province 550025
CN

2C-75-CB (hex) Novitec Co., Ltd.
2C75CB (base 16) Novitec Co., Ltd.
30-18, Baekjegobun-ro 39-gil, Songpa-gu
Seoul
05609
KR

9C-55-8F (hex) Lockin Technology(Beijing) Co.,Ltd.
9C558F (base 16) Lockin Technology(Beijing) Co.,Ltd.
12 / F, building B1, No. 1 Zhongguancun, Beiqing Road
Beijing Haidian District 100011
CN

E8-26-8D (hex) Shenzhen SuperElectron Technology Co.,Ltd.
E8268D (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

6C-91-06 (hex) Katena Computing Technologies
6C9106 (base 16) Katena Computing Technologies
7244 Carrizo Drive

La Jolla CA 92037
US

6C-70-CB (hex) Samsung Electronics Co.,Ltd
6C70CB (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

90-7B-C6 (hex) Texas Instruments
907BC6 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

90-48-46 (hex) Texas Instruments
904846
(base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

C4-79-05 (hex) Zhejiang Uniview Technologies Co.,Ltd.
C47905 (base 16) Zhejiang Uniview Technologies Co.,Ltd.
No.88,Jiangling Road
Hangzhou Zhejiang,P.R.China 310051
CN

D4-DA-21 (hex) Beijing Xiaomi Mobile Software Co., Ltd
D4DA21 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

20-1A-94 (hex) Apple, Inc.
201A94 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B0-E5-EF (hex) Apple, Inc.
B0E5EF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

28-8F-F6 (hex) Apple, Inc.
288FF6 (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

50-27-A9 (hex) eero inc.
5027A9 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

10-BB-F3 (hex) HUNAN FN-LINK
TECHNOLOGY LIMITED
10BBF3 (base 16) HUNAN FN-LINK TECHNOLOGY LIMITED
No.8, Litong Road, Liuyan Economic & Tec
Changsha HUNAN 410329
CN

D0-4E-99 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D04E99 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

20-A7-66 (hex) HUAWEI TECHNOLOGIES CO.,LTD
20A766 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

3C-05-8E (hex) HUAWEI TECHNOLOGIES CO.,LTD
3C058E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A4-11-BB (hex) Cisco Systems, Inc
A411BB (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

50-49-21 (hex) Cisco Systems, Inc
504921 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

44-B7-D0

(hex) Microchip Technology Inc.
44B7D0 (base 16) Microchip Technology Inc.
2355 W Chandler Blvd
Chandler AZ 85224-6199
US

E8-8F-6F (hex) TCT mobile ltd
E88F6F (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

84-FC-E6 (hex) Espressif Inc.
84FCE6 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

58-B9-65 (hex) Apple, Inc.
58B965 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

74-31-74 (hex) Apple, Inc.
743174 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-C7-25 (hex) Apple, Inc.
F0C725 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

78-4F-24 (hex) Taicang T&W Electronics
784F24 (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

7C-66-9A (hex) HUAWEI
TECHNOLOGIES CO.,LTD
7C669A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

CC-1E-97 (hex) HUAWEI TECHNOLOGIES CO.,LTD
CC1E97 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B4-E4-6B (hex) China Mobile IOT Company Limited
B4E46B (base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area
Chongqing Chongqing 401336
CN

CC-CC-77 (hex) Zaram Technology. Inc.
CCCC77 (base 16) Zaram Technology. Inc.
2nd Fl, Fine Venture Building, 41, Seongnam-daero 925beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea [13496]
Bundang-gu 13496
KR

EC-DA-3B (hex) Espressif Inc.
ECDA3B (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

68-13-E2 (hex) Eltex Enterprise LTD
6813E2
(base 16) Eltex Enterprise LTD
Timiryazeva street, 17
Almaty 050040
KZ

64-44-D5 (hex) TD Tech
6444D5 (base 16) TD Tech
15F, building D, Yeqing building, No. 9, Wangjing North Road, Chaoyang District, Beijing
BeiJing 100102
CN

F8-AA-B3 (hex) DESSMANN (China) Machinery & Electronic Co., Ltd
F8AAB3 (base 16) DESSMANN (China) Machinery & Electronic Co., Ltd
1-3 Bld 1,NO.7 South Jianghui Rd,Binjiang District
Hangzhou Zhejiang 310051
CN

9C-54-67 (hex) Nokia
9C5467 (base 16) Nokia
600 March Road

Kanata Ontario K2K 2E6
CA

B4-61-42 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B46142 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

BC-B9-23 (hex) Alta Networks
BCB923 (base 16) Alta Networks
192 N. Old Highway 91
Hurricane UT 84737
US

8C-84-42 (hex) Cisco Systems, Inc
8C8442 (base 16) Cisco Systems,
Inc
80 West Tasman Drive
San Jose CA 94568
US

84-F1-17 (hex) Newseason
84F117 (base 16) Newseason
No. 1 Letang road, Tangxiayong gongyequ, Songgang street, Bao An district,
Shenzhen Guangdong 518000
CN

3C-06-64 (hex) Beijing Leagrid Technology Co.,Ltd.
3C0664 (base 16) Beijing Leagrid Technology Co.,Ltd.
No. 86-N2216, Wanxing Road, Changyang, Fangshan District, Beijing
Beijing Beijing 102488
CN

BC-52-74 (hex) Samsung Electronics Co.,Ltd
BC5274 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

BC-45-8C (hex) Shenzhen Topwise Communication Co.,Ltd
BC458C (base 16) Shenzhen Topwise Communication Co.,Ltd
5/F,Shengtang Building East Block,Tairan Road 9,Futian District,Shenzhen
Shenzhen 518042
CN

94-78-06 (hex) NINGBO SUNVOT TECHNOLOGY CO.,LTD
947806 (base 16) NINGBO SUNVOT TECHNOLOGY CO.,LTD

ROOM 305,NO.1,BUILDING 4,NO.79,XIAOGANG WEISAN
ROAD,XIAOGANG STREET,BEILUN DISTRICT
NingBo Zhejiang 315800
CN

98-CC-E4 (hex) Shenzhen Mindray Animal Medical Technology Co.,LTD
98CCE4 (base 16) Shenzhen Mindray Animal Medical Technology Co.,LTD
Tower 4, YESUN Intelligent Community 3 ,No.1301-88
Shenzhen Guanguang Road,Guanlan Street,Longhua District 518110
CN

90-09-DF (hex) Intel Corporate
9009DF (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

E4-0D-36 (hex) Intel Corporate
E40D36 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

14-9F-43 (hex) Cisco Meraki
149F43 (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco 94158
US

64-DB-38 (hex) zte corporation
64DB38 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

2C-08-B4 (hex) Huawei Device Co., Ltd.
2C08B4 (base 16) Huawei Device
Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

50-07-C3 (hex) Amazon Technologies Inc.
5007C3 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

C8-EF-BC (hex) Inspur Communication Technology Co.,Ltd.
C8EFBC (base 16) Inspur Communication Technology Co.,Ltd.
1306 Inspur street
JiNan ShanDong 250014
CN

84-8D-CE (hex) Ciena Corporation
848DCE (base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

E4-66-AB (hex) zte corporation
E466AB (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

A0-95-7F (hex) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
A0957F (base 16) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
NO.8 Tangzhuang Road,Suzhou Industrial Park,Su ZhouCity,JiangSu Province,China
Suzhou 215021
CN

64-13-5A (hex) Itectra A/S
64135A (base 16) Itectra
A/S
Sofiendalsvej 85
Aalborg SV 9200
DK

54-E1-B6 (hex) Renesas Electronics (Penang) Sdn. Bhd.
54E1B6 (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

CC-77-C9 (hex) Fiberhome Telecommunication Technologies Co.,LTD
CC77C9 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

2C-57-2C (hex) Allwinner Technology Co., Ltd
2C572C (base 16) Allwinner Technology Co., Ltd
No.9 Technology Road 2, High-Tech Zone
Zhuhai Guangdong 519085
CN

EC-DF-C9 (hex) Hangzhou Microimage Software Co., Ltd
ECDFC9 (base 16) Hangzhou Microimage Software Co., Ltd
Room 313, Unit B, Building 2, 399 Danfeng Road, Binjiang District
Hangzhou Zhejiang 310051
CN

3C-E4-41 (hex) Amazon Technologies Inc.
3CE441 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

44-42-01 (hex) Amazon
Technologies Inc.
444201 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

E4-6D-7F (hex) Ciena Corporation
E46D7F (base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

80-27-6C (hex) Cisco Systems, Inc
80276C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

6C-4E-F6 (hex) Cisco Systems, Inc
6C4EF6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

5C-27-63 (hex) Itibia Technologies
5C2763 (base 16) Itibia Technologies
1630, 3F, Phase I, International Science Park, No.1355 Jinjihu Avenue,
Suzhou Jiangsu 215021
CN

40-C1-F6 (hex) Shenzhen Jingxun Technology Co., Ltd.
40C1F6 (base 16) Shenzhen Jingxun Technology Co., Ltd.
3/F, A5 Building, Zhiyuan Community, No. 1001, Xueyuan Road, Nanshan District
Shenzhen 518071

CN

FC-22-D3 (hex) FDSYS
FC22D3 (base 16) FDSYS
12,
Seonyu-ro 43na-gil, Yeongdeungpo-gu
Seoul 07210
KR

B4-04-21 (hex) zte corporation
B40421 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

E8-43-68 (hex) zte corporation
E84368 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

4C-5C-DF (hex) ITEL MOBILE LIMITED
4C5CDF (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

C0-2E-26 (hex) iRhythm Technologies, Inc.
C02E26 (base 16) iRhythm Technologies, Inc.
11085 Knott Avenue
Cypress CA 90630
US

50-48-77 (hex) Honor Device Co., Ltd.
504877 (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District
Shenzhen Guangdong 518040
CN

F8-5C-7E
(hex) Shenzhen Honesty Electronics Co.,Ltd.
F85C7E (base 16) Shenzhen Honesty Electronics Co.,Ltd.
5/F,Zone B,Chitat Industrial Park,West Longping Road, Longgang District,Shenzhen City
Shenzhen Guangdong 518172
CN

F8-24-E4 (hex) Beyonics Technology Electronic (Changshu) Co., Ltd

F824E4 (base 16) Beyonics Technology Electronic (Changshu) Co., Ltd
18 Yinhuan Road, Changshu New & Hi-tech Industrial Development Zone of Jiangsu
Changshu Jiangsu 215500
CN

1C-B8-BA (hex) XIAMEN LEELEN TECHNOLOGY CO., LTD
1CB8BA (base 16) XIAMEN LEELEN TECHNOLOGY CO., LTD
LEELEN building, No.780 TieShan Road, GuanKou Town , JiMei District
Xiamen Fujian 361021
CN

6C-7E-67 (hex) Apple, Inc.
6C7E67 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A4-C6-F0 (hex) Apple, Inc.
A4C6F0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A8-8F-D9 (hex) Apple, Inc.
A88FD9
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

08-95-42 (hex) Apple, Inc.
089542 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E4-9C-67 (hex) Apple, Inc.
E49C67 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

64-E2-20 (hex) Qisda Corporation
64E220 (base 16) Qisda Corporation
No. 157, Shanying Rd., Gueishan Dist., Taoyuan City 33341, Taiwan
Taoyuan 33341
TW

F0-CC-E0 (hex) Shenzhen All-Smartlink Technology Co.,Ltd.
F0CCE0 (base 16) Shenzhen All-Smartlink Technology Co.,Ltd.
502, Building B, Guangming Industry Park, Minzhi, Shenzhen, Guangdong, China
Shenzhen Guangdong 518100
CN

44-E2-F1 (hex) NewRadio Technologies Co. , Ltd.
44E2F1 (base 16) NewRadio Technologies Co. , Ltd.
1408, Building 4, Tianan Yungu, Bantian
Shenzhen Guangdong 518129
CN

00-23-4B (hex) Inyuan Technology Inc.
00234B (base 16) Inyuan
Technology Inc.
No. 3, Singye St.,
Taoyuan County 33341
TW

00-17-6E (hex) DUCATI SISTEMI
00176E (base 16) DUCATI SISTEMI
VIA MARCO EMILIO LEPIDO, 182
BOLOGNA 40132
IT

1C-6A-76 (hex) Apple, Inc.
1C6A76 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

78-C1-AE (hex) Hangzhou Ezviz Software Co.,Ltd.
78C1AE (base 16) Hangzhou Ezviz Software Co.,Ltd.
Room 302, Unit B, Building 2, 399 Danfeng Road,Binjiang District
Hangzhou Zhejiang 310051
CN

30-C6-D7 (hex) New H3C Technologies Co., Ltd
30C6D7 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

D4-F2-42 (hex) Huawei Device Co., Ltd.
D4F242 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

00-30-AF (hex) Honeywell GmbH
0030AF (base 16) Honeywell GmbH
Boeblinger Str. 17
D-71098 Schoenaich

DE

E8-86-CF (hex) Nokia
E886CF (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

B0-78-39 (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
B07839 (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

74-9E-75 (hex) Aruba, a Hewlett Packard Enterprise Company
749E75 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

D8-54-82 (hex) Oxit, LLC
D85482 (base 16) Oxit, LLC
3131 Westinghouse Blvd
Charlotte NC 28273
US

C4-EF-DA (hex) Honeywell
C4EFDA (base 16) Honeywell
9680 Old Bailes Rd, Fort Mill, SC 29707
Fort Mill SC 29707
US

D8-F5-07 (hex) Fiberhome Telecommunication Technologies Co.,LTD
D8F507 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

F4-1C-71 (hex) SHENZHEN
SANMU COMMUNICATION TECHNOLOGY CO., LTD
F41C71 (base 16) SHENZHEN SANMU COMMUNICATION TECHNOLOGY CO., LTD
17/F,Block 1A,Software Industry Base, XueFu Road,Nanshan District,

Shenzhen GuangDong 518100
CN

70-11-0E (hex) zte corporation
70110E (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

98-81-8A (hex) Huawei Device Co., Ltd.
98818A (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

A8-AA-7C (hex) Huawei Device Co., Ltd.
A8AA7C (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

B4-C2-F7 (hex) Huawei Device Co., Ltd.
B4C2F7 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

D4-AD-20 (hex) Jinan USR IOT Technology Limited
D4AD20 (base 16) Jinan
USR IOT Technology Limited
Floor F1 & Part of Floor F2, Building No. 9,Diya shuang chuang
Industrial Zone, No.2566,Century Main Road,Gaoxin District Jinan,Shandong China
Shandong Jinan 250014
CN

1C-FC-17 (hex) Cisco Systems, Inc
1CFC17 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E0-5A-1B (hex) Espressif Inc.
E05A1B (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

48-8A-E8 (hex) vivo Mobile Communication Co., Ltd.

488AE8 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

F4-05-95 (hex) Sagemcom Broadband SAS
F40595 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

10-AE-60 (hex) Amazon Technologies Inc.
10AE60 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

BC-10-7B
(hex) Samsung Electronics Co.,Ltd
BC107B (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

88-12-AC (hex) HUNAN FN-LINK TECHNOLOGY LIMITED
8812AC (base 16) HUNAN FN-LINK TECHNOLOGY LIMITED
No.8, Litong Road, Liuyan Economic & Tec
Changsha HUNAN 410329
CN

EC-74-D7 (hex) Grandstream Networks Inc
EC74D7 (base 16) Grandstream Networks Inc
126 brookline avenue
boston MA 02215
US

28-01-1C (hex) zte corporation
28011C (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

30-63-71 (hex) Shenzhenshi Xinzhongxin Technology Co.Ltd
306371 (base 16) Shenzhenshi Xinzhongxin Technology Co.Ltd
Block 3, Dong Huan Industrial Park, Sha Jing Town, Bao’an District, Shenzhen City, Guangdong Province, China
ShenZHEN GuangDong 518104
CN

98-A2-C0 (hex) Cisco Systems, Inc
98A2C0 (base 16) Cisco
Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-41-0E (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
00410E (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

FC-61-79 (hex) IEEE Registration Authority
FC6179 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

1C-32-83 (hex) COMTTI Intelligent Technology(Shenzhen) Co., Ltd.
1C3283 (base 16) COMTTI Intelligent Technology(Shenzhen) Co., Ltd.
Building 7/6 building 6 room 307, Area A, Baoan Internet Industrial Base, Mabu Community, Xixiang Street, Baoan District,
Shenzhen Guangdong 518000
CN

C8-84-8C (hex) Ruckus Wireless
C8848C (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

20-E6-DF (hex) eero inc.
20E6DF (base 16) eero inc.
660 3rd
Street
San Francisco CA 94107
US

F4-93-1C (hex) Universal Electronics, Inc.
F4931C (base 16) Universal Electronics, Inc.
201 E. Sandpointe Ave
Santa Ana CA 92707
US

08-B6-1F (hex) Espressif Inc.
08B61F (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area

Shanghai Shanghai 201203
CN

CC-BA-6F (hex) HUAWEI TECHNOLOGIES CO.,LTD
CCBA6F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

78-5C-5E (hex) HUAWEI TECHNOLOGIES CO.,LTD
785C5E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

3C-4E-56 (hex) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
3C4E56 (base 16) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
Unit East Block22-24/F,Skyworth semiconductor design Bldg., Gaoxin Ave.4.S.,Nanshan District,Shenzhen,China
SHENZHEN GUANGDONG
518057
CN

A0-8C-F2 (hex) YINUOLINK CO.,LTD
A08CF2 (base 16) YINUOLINK CO.,LTD
3F, Bldg 5, Gaoxinjian Industrial Park, Fuyuan 1st Road, Heping, Fuhai, Bao'an
Shenzhen Guangdong 518103
CN

40-47-5E (hex) eero inc.
40475E (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

5C-3E-1B (hex) Apple, Inc.
5C3E1B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

7C-2A-CA (hex) Apple, Inc.
7C2ACA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

28-8E-EC (hex) Apple, Inc.
288EEC (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

74-37-5F (hex) SERCOMM PHILIPPINES INC
74375F (base 16) SERCOMM PHILIPPINES INC
Lot 1 & 5, Phase 1, Filinvest Technology Park 1, Brgy. Punta, Calamba City
Calamba Lot 1
PH

C8-2A-F1 (hex) TCT mobile ltd
C82AF1 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech
District
Hui Zhou Guang Dong 516006
CN

3C-E9-0E (hex) Espressif Inc.
3CE90E (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

A8-42-E3 (hex) Espressif Inc.
A842E3 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

D4-9B-74 (hex) Kinetic Technologies
D49B74 (base 16) Kinetic Technologies
6399 San Ignacio Ave #250
San Jose CA 95119
US

48-0E-EC (hex) TP-LINK TECHNOLOGIES CO.,LTD.
480EEC (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

50-F2-61 (hex) Photon Sail Technologies
50F261 (base 16) Photon Sail Technologies
8 Robinson Road, ASO Building
Singapore 048544
SG

94-4E-5B (hex) Ubee Interactive Co., Limited

944E5B (base 16) Ubee
Interactive Co., Limited
Flat/RM 1202, 12/F, AT Tower, 180 Electric Road
North Point 00000
HK

B4-BA-9D (hex) SKY UK LIMITED
B4BA9D (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

E0-86-14 (hex) Novatel Wireless Solutions, Inc.
E08614 (base 16) Novatel Wireless Solutions, Inc.
9710 Scranton Rd., Suite 200
San Diego CA 92121
US

40-F8-DF (hex) CANON INC.
40F8DF (base 16) CANON INC.
30-2 Shimomaruko 3-chome,
Ohta-ku Tokyo 146-8501
JP

0C-7F-ED (hex) IEEE Registration Authority
0C7FED (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

7C-67-AB (hex) Roku, Inc
7C67AB (base 16) Roku, Inc
1155 Coleman Ave
San Jose CA 95110
US

50-3E-AA (hex) TP-LINK TECHNOLOGIES CO.,LTD.
503EAA (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen
Guangdong 518057
CN

3C-FE-AC (hex) Cisco Systems, Inc
3CFEAC (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

04-A7-41 (hex) Cisco Systems, Inc
04A741 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A8-DE-68 (hex) Beijing Wide Technology Co.,Ltd
A8DE68 (base 16) Beijing Wide Technology Co.,Ltd
Floor7,Block B,Yicheng wealth center,No. 22,Ronghua Middle Road,Beijing Economic and Technological Development Zone
Beijing Beijing 100000
CN

F4-3B-D8 (hex) Intel Corporate
F43BD8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

A0-88-9D (hex) Huawei Device Co., Ltd.
A0889D (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

6C-30-2A (hex) Texas Instruments
6C302A (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

74-46-B3
(hex) Texas Instruments
7446B3 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

34-3A-20 (hex) Aruba, a Hewlett Packard Enterprise Company
343A20 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

F4-6A-DD (hex) Liteon Technology Corporation
F46ADD (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road

New Taipei City Taiwan 23585
TW

18-E9-1D (hex) HUAWEI TECHNOLOGIES CO.,LTD
18E91D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

18-B1-85 (hex) Qiao Information Technology (Zhengzhou) Co., Ltd.
18B185 (base 16) Qiao Information Technology (Zhengzhou) Co., Ltd.
Room 405-1, Area A, 4th Floor, Wisdom Island Building, No.6, Zhongdao East, Zhengdong New District,
Zhengzhou Henan 450000
CN

7C-0C-92 (hex) Suzhou Mobydata Smart System
Co.,Ltd.
7C0C92 (base 16) Suzhou Mobydata Smart System Co.,Ltd.
3f,building E,Yida science Park,No.11 Jinpu Road,SIP,Suzhou,Jiangsu,China
Suzhou Jingsu 215000
CN

30-3F-5D (hex) PT HAN SUNG ELECTORONICS INDONESIA
303F5D (base 16) PT HAN SUNG ELECTORONICS INDONESIA
JL.PALEM 1 BLOK DS-6
KAWASAN INDUSTRI BATIK LIPPO CIKARANG, DESA CIBATU, KECAMATAN CIKARANG SELATAN
BEKASI JAWA BARAT 17550
ID

3C-69-D1 (hex) ADC Automotive Distance Control System GmbH
3C69D1 (base 16) ADC Automotive Distance Control System GmbH
Peter-Dornier Strasse 10
Lindau Bavaria 88131
DE

B0-FB-DD (hex) Shenzhen SuperElectron Technology Co.,Ltd.
B0FBDD (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

E0-9C-8D (hex) Seakeeper, Inc.
E09C8D (base 16) Seakeeper, Inc.
45310 Abell House Lane Suite
350
California MD 20619
US

30-7F-10 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
307F10 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

A4-90-CE (hex) vivo Mobile Communication Co., Ltd.
A490CE (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

48-70-6F (hex) HUAWEI TECHNOLOGIES CO.,LTD
48706F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-BA-D6 (hex) D-Link Corporation
04BAD6 (base 16) D-Link Corporation
No.289, Sinhu 3rd Rd., Neihu District,
Taipei City 114
TW

98-D7-42 (hex) Samsung Electronics Co.,Ltd
98D742 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

54-A9-C8 (hex) Home Control Singapore Pte Ltd
54A9C8 (base 16) Home
Control Singapore Pte Ltd
151 Lorong Chuan
Singapore 556741
SG

0C-97-5F (hex) Aruba, a Hewlett Packard Enterprise Company
0C975F (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

A0-B7-65 (hex) Espressif Inc.
A0B765 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

CC-DB-A7 (hex) Espressif Inc.
CCDBA7 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

C8-6C-20 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
C86C20 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

34-AC-11 (hex) China Mobile Group Device Co.,Ltd.
34AC11 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

44-32-C2
(hex) GOAL Co., Ltd.
4432C2 (base 16) GOAL Co., Ltd.
2-16-6 Mitsuyakita Yodogawa-ku
Osaka-shi Osaka-fu 532-0032
JP

70-66-2A (hex) Sony Interactive Entertainment Inc.
70662A (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

DC-71-DD (hex) AX Technologies
DC71DD (base 16) AX Technologies
1400 Broadway, 18th Floor
New York City NY 10018
US

20-64-DE (hex) Sunitec Enterprise Co.,Ltd
2064DE (base 16) Sunitec Enterprise Co.,Ltd
3F.,No.98-1,Mincyuan Rd.Sindian City
Taipei County 231 231141
CN

A4-0F-98 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
A40F98 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860

CN

74-B7-25 (hex) Huawei Device Co., Ltd.
74B725 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong
523808
CN

40-8E-DF (hex) Huawei Device Co., Ltd.
408EDF (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

D8-80-DC (hex) Huawei Device Co., Ltd.
D880DC (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E8-B3-EF (hex) Fiberhome Telecommunication Technologies Co.,LTD
E8B3EF (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

5C-FB-3A (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
5CFB3A (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

D0-4E-50 (hex) Mobiwire Mobiles (NingBo) Co., LTD
D04E50 (base 16) Mobiwire Mobiles (NingBo) Co., LTD
No.999 Dacheng East Road, Fenghua District, Ningbo City , Zhejiang Province, PRC
Ningbo Zhejiang
315500
CN

E8-F7-91 (hex) Xiaomi Communications Co Ltd
E8F791 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

F4-6C-68 (hex) Wistron Neweb Corporation
F46C68 (base 16) Wistron Neweb Corporation

No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

84-93-B2 (hex) zte corporation
8493B2 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

B4-9F-4D (hex) Fiberhome Telecommunication Technologies Co.,LTD
B49F4D (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

E8-3A-4B (hex) China Mobile Group Device Co.,Ltd.
E83A4B (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

60-E9-AA (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE.
LTD.
60E9AA (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

24-0F-5E (hex) Shenzhen z-router Technology Co., Ltd
240F5E (base 16) Shenzhen z-router Technology Co., Ltd
406,Block A,Taojindi Building ,Tenglong Road,Longhua New District,
Shenzhen GuangDong 518000
CN

00-0C-06 (hex) Nixvue Systems Pte Ltd
000C06 (base 16) Nixvue Systems Pte Ltd
30 Loyang Way, #07-02
Singapore Singapore S508769
SG

18-FD-74 (hex) Routerboard.com
18FD74 (base 16) Routerboard.com
Mikrotikls SIA
Riga Riga LV1009
LV

6C-97-6D (hex) Motorola Mobility LLC, a Lenovo Company

6C976D (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

64-11-A4 (hex) Motorola Mobility LLC, a Lenovo Company
6411A4 (base 16) Motorola Mobility
LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

18-86-3A (hex) DIGITAL ART SYSTEM
18863A (base 16) DIGITAL ART SYSTEM
838 rue de l'Aiguelongue
Montpellier Etat 34090
FR

C8-D6-B7 (hex) Solidigm Technology
C8D6B7 (base 16) Solidigm Technology
1921 Corporate Center Circle, Suite 3B
Longmont CO 80501
US

F0-87-7F (hex) Magnetar Technology Shenzhen Co., LTD.
F0877F (base 16) Magnetar Technology Shenzhen Co., LTD.
Room211, Building1, No.26 Puzai Road, Pingdi Longgang
Shenzhen GUANGDONG 518117
CN

00-0E-DB (hex) XiNCOM Corp.
000EDB (base 16) XiNCOM Corp.
2840 Industrial Ave.
Hubbard OR 97032
US

40-D9-5A (hex) AMPAK Technology,Inc.
40D95A (base 16) AMPAK Technology,Inc.
3F, No.15-1 Zhonghua Road, Hsinchu Industrail Park, Hukou,
Hsinchu Hsinchu,Taiwan R.O.C. 30352
TW

4C-D0-DD (hex) HUAWEI TECHNOLOGIES CO.,LTD
4CD0DD (base 16) HUAWEI TECHNOLOGIES
CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

78-66-9D (hex) Hui Zhou Gaoshengda Technology Co.,LTD
78669D (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.2, Jin-da Road, Huinan High-tech Industrial Park, Hui-ao Avenue
Huizhou Guangdong 516025
CN

48-46-8D (hex) Zepcam B.V.
48468D (base 16) Zepcam B.V.
Delftechpark, 17-19
Delft 2628 XJ
NL

90-49-92 (hex) YSTen Technology Co.,Ltd
904992 (base 16) YSTen Technology Co.,Ltd
Room 1715,17/F North Star Times Tower,Chaoyang District,Beijing.
Beijing 100101
CN

3C-CE-0D (hex) Shenzhen juduoping Technology Co.,Ltd
3CCE0D (base 16) Shenzhen juduoping Technology Co.,Ltd
Baoan Xin'an Streat
Shenzhen 002052
CN

D0-49-7C (hex) OnePlus Technology (Shenzhen) Co., Ltd
D0497C (base 16) OnePlus Technology (Shenzhen) Co., Ltd
18C02, 18C03, 18C04 ,18C05,TAIRAN BUILDING,
Shenzhen
Guangdong 518000
CN

74-D4-DD (hex) Quanta Computer Inc.
74D4DD (base 16) Quanta Computer Inc.
No. 211, Wenhua 2nd Rd., Guishan Dist.
Taoyuan City Taiwan 33377
TW

E4-90-2A (hex) HUAWEI TECHNOLOGIES CO.,LTD
E4902A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

90-5E-44 (hex) HUAWEI TECHNOLOGIES CO.,LTD
905E44 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

10-F0-68 (hex) Ruckus Wireless
10F068 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

AC-29-29 (hex) Infinix mobility limited
AC2929 (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

50-E6-36 (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
50E636
(base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

7C-E1-52 (hex) THE GOODYEAR TIRE & RUBBER COMPANY
7CE152 (base 16) THE GOODYEAR TIRE & RUBBER COMPANY
200 Innovation Way
Akron OH 44316
US

78-20-BD (hex) Polysense (Beijing) Technologies Co. Ltd
7820BD (base 16) Polysense (Beijing) Technologies Co. Ltd
9 Shangdi 3rd Street, D508B3/5(4)F Bldg D, Haidian Dist.
Beijing 100085
CN

68-CE-4E (hex) L-3 Communications Infrared Products
68CE4E (base 16) L-3 Communications Infrared Products
3414 Herrmann Drive
Garland TX 75043
US

00-E5-F1 (hex) BUFFALO.INC
00E5F1 (base 16) BUFFALO.INC
AKAMONDORI Bld.,30-20,Ohsu 3-chome,Naka-ku
Nagoya Aichi Pref. 460-8315
JP

34-EE-2A (hex) ConMet
34EE2A (base 16) ConMet

5701 SE Columbia Way
Vancouver WA 98661
US

F0-4D-D4 (hex) Sagemcom Broadband SAS
F04DD4 (base 16) Sagemcom
Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

68-4E-05 (hex) HUNAN FN-LINK TECHNOLOGY LIMITED
684E05 (base 16) HUNAN FN-LINK TECHNOLOGY LIMITED
No.8, Litong Road, Liuyan Economic & Tec
Changsha HUNAN 410329
CN

04-99-BB (hex) Apple, Inc.
0499BB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

EC-21-25 (hex) Toshiba Corp.
EC2125 (base 16) Toshiba Corp.
1-1 Shibaura 1-Chome, Minato-Ku
Tokyo 105-8001
JP

5C-1B-F4 (hex) Apple, Inc.
5C1BF4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A8-51-AB (hex) Apple, Inc.
A851AB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

0C-7F-B2 (hex) ARRIS Group, Inc.
0C7FB2 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

50-39-2F (hex) INGRAM MICRO SERVICES

50392F (base 16) INGRAM MICRO SERVICES
100
CHEMIN DE BAILLOT
MONTAUBAN 82000
FR

FC-84-17 (hex) Honor Device Co., Ltd.
FC8417 (base 16) Honor Device Co., Ltd.
Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District
Shenzhen Guangdong 518040
CN

2C-A7-9E (hex) HUAWEI TECHNOLOGIES CO.,LTD
2CA79E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

10-24-07 (hex) HUAWEI TECHNOLOGIES CO.,LTD
102407 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

74-D9-EB (hex) Petabit Scale, Inc.
74D9EB (base 16) Petabit Scale, Inc.
5814 Lonetree Blvd, Ste 200
Rocklin CA 95765
US

28-CD-C1 (hex) Raspberry Pi Trading Ltd
28CDC1 (base 16) Raspberry Pi Trading Ltd
Maurice Wilkes Building, Cowley Road
Cambridge CB4 0DS
GB

C4-DE-E2 (hex) Espressif
Inc.
C4DEE2 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

68-B6-B3 (hex) Espressif Inc.
68B6B3 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203

CN

FC-A0-5A (hex) Oray.com co., LTD.
FCA05A (base 16) Oray.com co., LTD.
8008Rm, building No.1 GuoDing d. Yangpu District
Shanghai Shanghai 200433
CN

90-48-6C (hex) Ring LLC
90486C (base 16) Ring LLC
1523 26th St
Santa Monica CA 90404
US

C0-EE-40 (hex) Laird Connectivity
C0EE40 (base 16) Laird Connectivity
50 South Main St
Akron 44308
US

30-04-5C (hex) Shenzhen SuperElectron Technology Co.,Ltd.
30045C (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

90-79-CF
(hex) zte corporation
9079CF (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

8C-1E-80 (hex) Cisco Systems, Inc
8C1E80 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A4-F9-33 (hex) Intel Corporate
A4F933 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

10-F6-0A (hex) Intel Corporate
10F60A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3

Kulim Kedah 09000
MY

70-D8-23 (hex) Intel Corporate
70D823 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

3C-46-45 (hex) Shanghai Infinity Wireless Technologies Co.,Ltd.
3C4645 (base 16) Shanghai Infinity Wireless Technologies Co.,Ltd.
Room 522, Building A, No.1687 Changyang Road, Yangpu District, Shanghai
Shanghai Shanghai 200082
CN

88-8F-A4 (hex) Huawei Device Co., Ltd.
888FA4
(base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

50-68-AC (hex) Huawei Device Co., Ltd.
5068AC (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

AC-B5-66 (hex) Renesas Electronics (Penang) Sdn. Bhd.
ACB566 (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

38-1F-26 (hex) IEEE Registration Authority
381F26 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

30-43-D7 (hex) IEEE Registration Authority
3043D7 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

B4-A7-C6 (hex) SERVERCOM (INDIA) PRIVATE LIMITED
B4A7C6 (base 16) SERVERCOM (INDIA) PRIVATE LIMITED

E-43/1 OKHLA INDUSTRIAL AREA PHASE-II NEW DELHI SOUTH DELHI
NEW DELHI NA
IN

80-C3-BA (hex) Sonova
Consumer Hearing GmbH
80C3BA (base 16) Sonova Consumer Hearing GmbH
Am Labor 1
Wedemark Niedersachsen 30900
DE

48-7E-48 (hex) Earda Technologies co Ltd
487E48 (base 16) Earda Technologies co Ltd
Block A,Lianfeng Creative Park, #2 Jisheng Rd., Nansha District
Guangzhou Guangdong 511455
CN

E8-4D-EC (hex) Xerox Corporation
E84DEC (base 16) Xerox Corporation
800 Phillips Rd
Webster NY 14450
US

C8-B8-2F (hex) eero inc.
C8B82F (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

A4-1E-E1 (hex) Taicang T&W Electronics
A41EE1 (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

E8-FB-1C (hex) AzureWave Technology Inc.
E8FB1C (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

54-78-C9 (hex) AMPAK Technology,Inc.
5478C9 (base 16) AMPAK Technology,Inc.
3F, No.15-1 Zhonghua
Road, Hsinchu Industrail Park, Hukou,
Hsinchu Hsinchu,Taiwan R.O.C. 30352
TW

28-6B-35 (hex) Intel Corporate
286B35 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

40-35-E6 (hex) Samsung Electronics Co.,Ltd
4035E6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D0-A4-6F (hex) China Dragon Technology Limited
D0A46F (base 16) China Dragon Technology Limited
B4 Bldg.Haoshan 1st Industry Park,
Shenzhen Guangdong 518104
CN

2C-60-CD (hex) NR ELECTRIC CO., LTD
2C60CD (base 16) NR ELECTRIC CO., LTD
69,Suyuan Avenue
Nanjing Jiangsu 211102
CN

00-60-E2 (hex) QUEST ENGINEERING & DEVELOPMENT
0060E2 (base 16) QUEST ENGINEERING & DEVELOPMENT
1345 EAST ROCK WREN ROAD
PHOENIX AZ 85048
US

C4-DF-39 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
C4DF39 (base 16) Realme Chongqing Mobile Telecommunications
Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

CC-60-C8 (hex) Microsoft Corporation
CC60C8 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

FC-10-1A (hex) Palo Alto Networks
FC101A (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

6C-AE-E3 (hex) Nokia
6CAEE3 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

0C-AC-8A (hex) Sagemcom Broadband SAS
0CAC8A (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

80-97-33 (hex) Shenzhen Elebao Technology Co., Ltd
809733 (base 16) Shenzhen Elebao Technology Co., Ltd
F/6, Tower A, Zhihuichuangxin Center Bldg,Qianjin Road, XixiangTown, Bao'an District
shenzhen GUANGDONG 518126
CN

00-40-5F (hex) AFE COMPUTERS LTD.
00405F (base 16) AFE COMPUTERS LTD.
62 ANCHORAGE
ROAD
UNITED KINGDOM
GB

00-EB-D8 (hex) MERCUSYS TECHNOLOGIES CO., LTD.
00EBD8 (base 16) MERCUSYS TECHNOLOGIES CO., LTD.
3F,Zone B,Building R1,High-Tech Industrial Village,No.023 High-Tech South 4 Road,Nanshan,Shenzhen
Shenzhen Guangdong 518057
CN

74-04-F1 (hex) Intel Corporate
7404F1 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-A2-65 (hex) M2Motive Technology Inc.
00A265 (base 16) M2Motive Technology Inc.
Room 402,No. 125 North Jiangsu Road, Changning District
Shanghai Shanghai 200042
CN

F4-6D-2F (hex) TP-LINK TECHNOLOGIES CO.,LTD.
F46D2F (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057

CN

10-54-D2 (hex) IEEE Registration Authority
1054D2 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

B8-5D-C3
(hex) HUAWEI TECHNOLOGIES CO.,LTD
B85DC3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B4-3A-E2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B43AE2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F0-C8-B5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F0C8B5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D8-36-5F (hex) Intelbras
D8365F (base 16) Intelbras
BR 101, km 210, S/N°
São José Santa Catarina 88104800
BR

DC-FE-23 (hex) Murata Manufacturing Co., Ltd.
DCFE23 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

34-73-79 (hex) xFusion Digital Technologies Co., Limited
347379 (base 16) xFusion Digital Technologies Co., Limited
9th
Floor, Building 1, Zensun Boya Square, Longzihu Wisdom Island, Zhengdong New District
Zhengzhou Henan 450000
CN

D8-3D-CC (hex) shenzhen UDD Technologies,co.,Ltd
D83DCC (base 16) shenzhen UDD Technologies,co.,Ltd

Unit D, 6th Floor, Jialitai Bldg., No.45 Yanshan Road, Shekou, Nanshan District, Shenzhen, China
shenzhen guangdong 51800
CN

AC-80-AE (hex) Fiberhome Telecommunication Technologies Co.,LTD
AC80AE (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

BC-60-6B (hex) Shanghai Baud Data Communication Co.,Ltd.
BC606B (base 16) Shanghai Baud Data Communication Co.,Ltd.
NO.123 JULI RD
PUDONG ZHANGJIANG HIGH-TECH PARK SHANGHAI 201203
CN

04-17-B6 (hex) Smart Innovation LLC
0417B6 (base 16) Smart Innovation LLC
7F,Tower B,Jianxing
ShenZhen GuangZhou 518055
CN

E8-C7-CF (hex) Wistron Neweb Corporation
E8C7CF (base 16) Wistron
Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

CC-5C-61 (hex) Huawei Device Co., Ltd.
CC5C61 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

1C-F4-2B (hex) Huawei Device Co., Ltd.
1CF42B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

6C-51-BF (hex) Huawei Device Co., Ltd.
6C51BF (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

6C-8D-77 (hex) Cisco Systems, Inc

6C8D77 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

74-11-B2 (hex) Cisco Systems, Inc
7411B2 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

04-E6-9E (hex) ZHONGGUANCUN XINHAIZEYOU TECHNOLOGY CO.,LTD
04E69E (base 16) ZHONGGUANCUN XINHAIZEYOU
TECHNOLOGY CO.,LTD
13th Floor,Unit3,Building2,IC Park,NO.9 FengHao East Road, Haidian District
Beijing Beijing 100094
CN

00-19-8E (hex) Demant A/S
00198E (base 16) Demant A/S
Kongebakken 9
Smørum 2765
DK

60-FB-00 (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
60FB00 (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268? Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

D0-92-00 (hex) FiRa Consortium
D09200 (base 16) FiRa Consortium
3855 SW 153RD Drive
Beaverton OR 97003
US

E8-93-F3 (hex) Graphiant Inc
E893F3 (base 16) Graphiant Inc
760 Navajo Way
Fremont CA 94539
US

7C-C1-80 (hex) Apple, Inc.
7CC180 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

28-02-44 (hex) Apple, Inc.
280244 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E8-5F-02 (hex) Apple, Inc.
E85F02 (base 16) Apple,
Inc.
1 Infinite Loop
Cupertino CA 95014
US

BC-DF-58 (hex) Google, Inc.
BCDF58 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

2C-30-1A (hex) Technicolor CH USA Inc for Telus
2C301A (base 16) Technicolor CH USA Inc for Telus
4855 Peachtree Industrial Blvd, #200
Norcross GA 30092
US

C8-14-B4 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
C814B4 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

C0-49-EF (hex) Espressif Inc.
C049EF (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

E4-2B-79 (hex) Nokia
E42B79 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

EC-E7-A7 (hex) Intel Corporate
ECE7A7 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah

09000
MY

94-B5-55 (hex) Espressif Inc.
94B555 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

74-F2-FA (hex) Xiaomi Communications Co Ltd
74F2FA (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

5C-84-3C (hex) Sony Interactive Entertainment Inc.
5C843C (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

E8-AE-C5 (hex) Arista Networks
E8AEC5 (base 16) Arista Networks
5453 Great America Parkway
Santa Clara CA 95054
US

58-8F-CF (hex) Hangzhou Ezviz Software Co.,Ltd.
588FCF (base 16) Hangzhou Ezviz Software Co.,Ltd.
Room 302, Unit B, Building 2, 399 Danfeng Road,Binjiang District
Hangzhou Zhejiang 310051
CN

40-17-F6 (hex) TKH SECURITY,S.L.U.
4017F6 (base 16) TKH SECURITY,S.L.U.
Calle Paquiro, 32
Málaga
Málaga 29006
ES

3C-E9-F7 (hex) Intel Corporate
3CE9F7 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

18-5E-0B (hex) zte corporation
185E0B (base 16) zte corporation

12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

D0-BB-61 (hex) zte corporation
D0BB61 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

60-A6-C5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
60A6C5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

20-8C-86 (hex) HUAWEI TECHNOLOGIES CO.,LTD
208C86 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F0-A9-51 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F0A951 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2
Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-40-58 (hex) UKG
004058 (base 16) UKG
900 Chelmsford Street
Lowell MA 01851
US

F4-CE-23 (hex) Intel Corporate
F4CE23 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

A8-4F-B1 (hex) Cisco Systems, Inc
A84FB1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

54-AC-FC (hex) LIZN ApS

54ACFC (base 16) LIZN ApS
Stejlbjergparken 37
Vejle 7120
DK

4C-72-74 (hex) Shenzhenshi Xinzhongxin Technology Co.Ltd
4C7274 (base 16) Shenzhenshi Xinzhongxin Technology Co.Ltd
Block 3, Dong Huan Industrial Park, Sha Jing Town, Bao'an District, Shenzhen City, Guangdong Province, China
ShenZHEN GuangDong 518104
CN

A4-39-B3 (hex) Beijing Xiaomi Mobile Software Co., Ltd
A439B3 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building,
68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

6C-FF-CE (hex) Sagemcom Broadband SAS
6CFFCE (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

C8-99-B2 (hex) Arcadyan Corporation
C899B2 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

AC-73-52 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
AC7352 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

50-C2-75 (hex) GN Audio A/S
50C275 (base 16) GN Audio A/S
Lautrupbjerg 7
Ballerup DK-2750
DK

C8-72-7E (hex) Nokia
C8727E (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

0C-B8-15 (hex) Espressif Inc.
0CB815 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

64-25-EC
(hex) guangdong kesheng zhixun technology
6425EC (base 16) guangdong kesheng zhixun technology
1603?building B,kupai building,high-tech Industrial park,Nanshan district,shengzhen
shengzhen guangdong 518000
CN

00-E0-CD (hex) SAAB SENSIS CORPORATION
00E0CD (base 16) SAAB SENSIS CORPORATION
85 Collamer Crossings
East Syracuse NY 13057
US

80-0C-F9 (hex) Amazon Technologies Inc.
800CF9 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

A0-92-08 (hex) Tuya Smart Inc.
A09208 (base 16) Tuya Smart Inc.
160 Greentree Drive, Suite 101
Dover DE 19904
US

F4-B8-98 (hex) Texas Instruments
F4B898 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

B0-D2-78 (hex) Texas Instruments
B0D278 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

00-24-B6 (hex) Seagate Technology
0024B6 (base 16) Seagate Technology
1280
Disc Drive
Shakopee MN 55379

US

64-D6-9A (hex) Intel Corporate
64D69A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

E0-A2-5A (hex) Shanghai Mo xiang Network Technology CO.,ltd
E0A25A (base 16) Shanghai Mo xiang Network Technology CO.,ltd
Room#418-421, ShaHeXiLi, 2-2 XiLi North Road, LiCheng Community, Xili Street, NanShan District, Shenzhen City
Shenzhen Guangdong 518071
CN

E4-84-D3 (hex) Xiaomi Communications Co Ltd
E484D3 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

04-10-6B (hex) Xiaomi Communications Co Ltd
04106B (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

04-CC-BC (hex) HUAWEI TECHNOLOGIES CO.,LTD
04CCBC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan
Lake Technology Park
Dongguan 523808
CN

1C-E5-04 (hex) HUAWEI TECHNOLOGIES CO.,LTD
1CE504 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

2C-0B-AB (hex) HUAWEI TECHNOLOGIES CO.,LTD
2C0BAB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-D2-BC (hex) HUAWEI TECHNOLOGIES CO.,LTD
94D2BC (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

28-87-BA (hex) TP-Link Corporation Limited
2887BA (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

34-60-F9 (hex) TP-Link Corporation Limited
3460F9 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui
Kowloon 999077
HK

68-4A-E9 (hex) Samsung Electronics Co.,Ltd
684AE9 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

20-1F-54 (hex) Raisecom Technology CO., LTD
201F54 (base 16) Raisecom Technology CO., LTD
No. 11, East Area, No. 10 Block, East Xibeiwang Road
Beijing 100094
CN

7C-97-E1 (hex) Huawei Device Co., Ltd.
7C97E1 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C8-3E-9E (hex) Huawei Device Co., Ltd.
C83E9E (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E0-D0-45 (hex) Intel Corporate
E0D045 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

60-DD-70 (hex) Apple, Inc.

60DD70 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

98-A5-F9 (hex) Apple, Inc.
98A5F9
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

EC-A9-07 (hex) Apple, Inc.
ECA907 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

34-CE-69 (hex) Nokia Solutions and Networks GmbH & Co. KG
34CE69 (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

94-0D-2D (hex) Universal Electronics, Inc.
940D2D (base 16) Universal Electronics, Inc.
201 E. Sandpointe Ave
Santa Ana CA 92707
US

A8-8C-3E (hex) Microsoft Corporation
A88C3E (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

4C-06-B7 (hex) ProDVX Europe B.V.
4C06B7 (base 16) ProDVX Europe B.V.
Europalaan 10
Den Bosch NB 5235BC
NL

60-57-47 (hex) CIG SHANGHAI CO LTD
605747 (base 16) CIG SHANGHAI CO LTD
5th Floor, Building 8 No 2388 Chenhang Road
SHANGHAI 201114
CN

F8-25-51 (hex) Seiko Epson Corporation
F82551
(base 16) Seiko Epson Corporation
2070 Kotobuki Koaka
Matsumoto-shi Nagano-ken 399-8702
JP

74-53-A8 (hex) ACL Airshop BV
7453A8 (base 16) ACL Airshop BV
Kantoorweg 7
West Knollendam NH 1525 RJ
NL

14-7E-A1 (hex) Britania Eletrônicos S.A.
147EA1 (base 16) Britania Eletrônicos S.A.
Dona Francisca St. 12340, Pirabeiraba
Joinville Santa Catarina 89239-270
BR

E8-16-56 (hex) Hangzhou BroadLink Technology Co.,Ltd
E81656 (base 16) Hangzhou BroadLink Technology Co.,Ltd
Room 101,1/F,Unit C,Building 1,No.57 Jiang'er Road,Changhe Street,Binjiang District,Hangzhou,Zhejiang,P.R.China
Hangzhou Zhejiang 310052
CN

14-9E-5D (hex) JSC IB Reform
149E5D (base 16) JSC IB Reform
Varshavskoe shosse, 125, bld. 1, s. 3, fl. 6, room 10/23
Moscow 117587
RU

70-B8-F6 (hex) Espressif Inc.
70B8F6 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai
Shanghai 201203
CN

BC-47-60 (hex) Samsung Electronics Co.,Ltd
BC4760 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

2C-4D-DE (hex) TECNO MOBILE LIMITED
2C4DDE (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON

ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

30-3F-7B (hex) Shenzhen YOUHUA Technology Co., Ltd
303F7B (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

14-EB-B6 (hex) TP-Link Corporation Limited
14EBB6 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

54-AF-97 (hex) TP-Link Corporation Limited
54AF97 (base 16) TP-Link Corporation Limited
Room 901,9/F.New
East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

54-CF-8D (hex) HUAWEI TECHNOLOGIES CO.,LTD
54CF8D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

0C-B7-89 (hex) Honor Device Co., Ltd.
0CB789 (base 16) Honor Device Co., Ltd.
A1701, Block AB, Building 1, Tianan Yungu Phase I, Gangtou Community, Bantian Street
Shenzhen Guangdong 518129
CN

F0-B0-40 (hex) HUNAN FN-LINK TECHNOLOGY LIMITED
F0B040 (base 16) HUNAN FN-LINK TECHNOLOGY LIMITED
No.8, Litong Road, Liuyan Economic & Tec
Changsha HUNAN 410329
CN

48-2F-6B (hex) Aruba, a Hewlett Packard Enterprise Company
482F6B (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

D4-88-66 (hex) HUAWEI TECHNOLOGIES CO.,LTD

D48866 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan
Lake Technology Park
Dongguan 523808
CN

D4-84-57 (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
D48457 (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

FC-02-96 (hex) Xiaomi Communications Co Ltd
FC0296 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

68-BE-49 (hex) Nebula Matrix
68BE49 (base 16) Nebula Matrix
24/F Ahoke Aurora Plaza, Zhongmei RD, Longhua Dist.
Shenzhen Guangdong 518000
CN

94-F8-27 (hex) Shanghai Imilab Technology Co.Ltd
94F827 (base 16) Shanghai Imilab Technology Co.Ltd
29F, A Tower, New Caohejing International Business Center, Guiping Road, Xuhui District
Shanghai Shanghai 200000
CN

DC-A6-33 (hex) ARRIS Group, Inc.
DCA633 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

D8-CF-BF
(hex) Motorola Mobility LLC, a Lenovo Company
D8CFBF (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

18-45-B3 (hex) IEEE Registration Authority
1845B3 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

60-E8-5B (hex) Texas Instruments
60E85B (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

F8-63-D9 (hex) ARRIS Group, Inc.
F863D9 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

A4-05-D6 (hex) ARRIS Group, Inc.
A405D6 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

C4-48-FA (hex) Taicang T&W Electronics
C448FA (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

A8-98-92 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
A89892 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

E0-72-0A (hex) Shenzhen SuperElectron Technology Co.,Ltd.
E0720A (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

24-D9-04 (hex) Sichuan Changhong Network Technologies Co., Ltd.
24D904 (base 16) Sichuan Changhong Network Technologies Co., Ltd.
#35, East Mianxing Road, Hi-Tech Park
Mianyang Sichuan 621000
CN

48-3E-5E (hex) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
483E5E (base 16) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
NO.8 Tangzhuang Road,Suzhou Industrial Park,Su ZhouCity,JiangSu Province,China
Suzhou 215021

CN

50-EB-F6 (hex) ASUSTek COMPUTER INC.
50EBF6 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

60-FF-12 (hex) Samsung Electronics
Co.,Ltd
60FF12 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

24-C6-13 (hex) Samsung Electronics Co.,Ltd
24C613 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

94-E1-29 (hex) Samsung Electronics Co.,Ltd
94E129 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

28-04-C6 (hex) Wanan Hongsheng Electronic Co.Ltd
2804C6 (base 16) Wanan Hongsheng Electronic Co.Ltd
1st section of industrial pack,Wan'An County,Ji'An City,jiangxi province
Wanan China/jiangxi 343800
CN

C4-4F-96 (hex) Alps Alpine
C44F96 (base 16) Alps Alpine
20-1, Yoshima Industrial Park
Iwaki Fukushima 970-1192
JP

68-58-11 (hex) Fiberhome Telecommunication Technologies Co.,LTD
685811 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

B4-BA-02
(hex) Agatel Ltd
B4BA02 (base 16) Agatel Ltd

Apex House, Calthrope Road
Birmingham — B15 1TR
GB

D4-79-54 (hex) Huawei Device Co., Ltd.
D47954 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C8-39-AC (hex) Huawei Device Co., Ltd.
C839AC (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

14-55-94 (hex) Huawei Device Co., Ltd.
145594 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

08-C0-6C (hex) Huawei Device Co., Ltd.
08C06C (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

3C-45-7A (hex) SKY UK LIMITED
3C457A (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

90-27-59 (hex) Nanjing Jiahao Technology Co., Ltd.
902759
(base 16) Nanjing Jiahao Technology Co., Ltd.
Moling Industrial Park, Development Zone, Jiangning, Nanjing
Nanjing Jiangsu 211111
CN

84-BA-20 (hex) Silicon Laboratories
84BA20 (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

00-3C-84 (hex) Silicon Laboratories

003C84 (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

28-1D-21 (hex) IN ONE SMART TECHNOLOGY(H,K,)LIMITED
281D21 (base 16) IN ONE SMART TECHNOLOGY(H,K,)LIMITED
UNIT I 1/F MAU LAM COMM BLDG 16-18 MAU LAM ST JORDAN KL HK
HONGKONG 999077
HK

74-E3-36 (hex) FUJIAN STAR-NET COMMUNICATION CO.,LTD
74E336 (base 16) FUJIAN STAR-NET COMMUNICATION CO.,LTD
19-22# Building, Star-net Science Plaza, Juyuanzhou,
FUZHOU FUJIAN 350002
CN

C4-34-5B (hex) HUAWEI TECHNOLOGIES CO.,LTD
C4345B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake
Technology Park
Dongguan 523808
CN

B0-73-9C (hex) Amazon Technologies Inc.
B0739C (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

3C-21-9C (hex) Intel Corporate
3C219C (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

DC-62-94 (hex) Guangzhou Lango Electronics Technology Co.,Ltd.
DC6294 (base 16) Guangzhou Lango Electronics Technology Co.,Ltd.
Room 238, Room 406, No. 1, Yichuang Street, Huangpu District
Guangzhou Guangdong 510336
CN

34-98-B5 (hex) NETGEAR
3498B5 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

18-59-F5 (hex) Cisco Systems, Inc
1859F5 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

70-32-17 (hex) Intel Corporate
703217 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

38-94-61 (hex) Renesas Electronics (Penang) Sdn.
Bhd.
389461 (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

48-55-19 (hex) Espressif Inc.
485519 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

5C-46-B0 (hex) SIMCom Wireless Solutions Limited
5C46B0 (base 16) SIMCom Wireless Solutions Limited
SIMCom Headquarters Building, Building 3, No. 289 Linhong Road, Changning District, Shanghai P.R. China
Shanghai 200335
CN

C0-2C-5C (hex) Apple, Inc.
C02C5C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

EC-42-69 (hex) HMD Global Oy
EC4269 (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

D4-57-63 (hex) Apple, Inc.
D45763 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

48-B9-C2 (hex) Teletics Inc.
48B9C2 (base 16) Teletics Inc.
103 Edgevalley Close NW
Calgary
AB T3A 5E9
CA

90-F3-B8 (hex) China Mobile Group Device Co.,Ltd.
90F3B8 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

38-56-3D (hex) Microsoft Corporation
38563D (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

28-93-7D (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
28937D (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

1C-73-E2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
1C73E2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

8C-83-E8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
8C83E8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

34-A5-B4 (hex) NAVTECH PTE LTD
34A5B4
(base 16) NAVTECH PTE LTD
101 CECIL STREET
SINGAPORE 437872
SG

E8-9F-6D (hex) Espressif Inc.
E89F6D (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area

Shanghai Shanghai 201203
CN

F8-29-C0 (hex) Availink, Inc.
F829C0 (base 16) Availink, Inc.
Scotia Centre P.O. Box 268GT,Grand Cayman, Cayman Islands
Grand Cayman Grand Cayman 999159
KY

24-B7-2A (hex) China Dragon Technology Limited
24B72A (base 16) China Dragon Technology Limited
B4 Bldg.Haoshan 1st Industry Park,
Shenzhen Guangdong 518104
CN

F8-FC-E1 (hex) Amazon Technologies Inc.
F8FCE1 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

64-57-E5 (hex) Beijing Royaltech Co.,Ltd
6457E5 (base 16) Beijing Royaltech Co.,Ltd
201, building 7, Boya CC4 courtyard, Life Science Park, Beiqing Road, Changping District, Beijing
Beijing 100000
CN

FC-9B-D4 (hex) EdgeQ
FC9BD4
(base 16) EdgeQ
2550 Great America Way, STE 325
Santa Clara CA 95054
US

14-57-90 (hex) Qingdao Haier Technology Co.,Ltd
145790 (base 16) Qingdao Haier Technology Co.,Ltd
Building A01,Haier Information Park, No.1 Haier Road,
Qingdao Shandong 266101
CN

40-5F-7D (hex) TCT mobile ltd
405F7D (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

98-6E-E8 (hex) IEEE Registration Authority
986EE8 (base 16) IEEE Registration Authority

445 Hoes Lane
Piscataway NJ 08554
US

D4-C3-B0 (hex) Gearlinx Pty Ltd
D4C3B0 (base 16) Gearlinx Pty Ltd
518 Haven Road, Haven Road
Upper Brookfield QLD 4069
AU

E0-70-EA (hex) HP Inc.
E070EA (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

08-B4-9D (hex) TECNO MOBILE LIMITED
08B49D (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE,
HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

04-D9-21 (hex) Occuspace
04D921 (base 16) Occuspace
302 Washington Street Suite 315
San Diego CA 92103
US

4C-03-4F (hex) Intel Corporate
4C034F (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

94-29-57 (hex) Airpo Networks Technology Co.,Ltd.
942957 (base 16) Airpo Networks Technology Co.,Ltd.
Room 209,Building 3, Jianda Industrial Park, Xin an San Lu, Baoan District,
shenzhen GuangDong 518000
CN

98-77-CB (hex) Vorteks ED
9877CB (base 16) Vorteks ED
Mirkovci, Street 2, number 142a
Skopje 1000
MK

C4-36-C0 (hex) BUFFALO.INC

C436C0 (base 16) BUFFALO.INC
AKAMONDORI Bld.,30-20,Ohsu 3-chome,Naka-ku
Nagoya Aichi Pref. 460-8315
JP

B8-8A-72 (hex) Renesas Electronics (Penang) Sdn. Bhd.
B88A72 (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase
3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

88-D8-2E (hex) Intel Corporate
88D82E (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

50-54-7B (hex) Nanjing Qinheng Microelectronics Co., Ltd.
50547B (base 16) Nanjing Qinheng Microelectronics Co., Ltd.
No.18, Ningshuang Road
Nanjing Jiangsu 210012
CN

4C-EA-AE (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
4CEAAE (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

D4-1A-D1 (hex) Zyxel Communications Corporation
D41AD1 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

B8-45-F4 (hex) New H3C Technologies Co., Ltd
B845F4 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

EC-01-D5 (hex) Cisco Systems, Inc
EC01D5
(base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

2C-53-D7 (hex) Sonova AG
2C53D7 (base 16) Sonova AG
Laubisruetistrasse 28
Staefa 8712
CH

E8-97-9A (hex) Quectel Wireless Solutions Co.,Ltd.
E8979A (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

5C-A6-E6 (hex) TP-Link Corporation Limited
5CA6E6 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

B4-B0-24 (hex) TP-Link Corporation Limited
B4B024 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

18-F2-2C (hex) TP-LINK TECHNOLOGIES CO.,LTD.
18F22C (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology
Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

98-97-CC (hex) TP-LINK TECHNOLOGIES CO.,LTD.
9897CC (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

18-0E-AC (hex) SHENZHEN FAST TECHNOLOGIES CO.,LTD
180EAC (base 16) SHENZHEN FAST TECHNOLOGIES CO.,LTD
Room 202,Building No.5,Section 30,No.2 of Kefa Road,Nanshan District,Shenzhen,P.R.China
Shenzhen Guangdong 518057
CN

14-49-20 (hex) HUAWEI TECHNOLOGIES CO.,LTD
144920 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

DC-A7-82 (hex) HUAWEI TECHNOLOGIES CO.,LTD
DCA782 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-51-70 (hex) Zhongshan K-mate General Electronics Co.,Ltd
045170
(base 16) Zhongshan K-mate General Electronics Co.,Ltd
NO.2 ,5th Xinsheng Street,East Mu He Jing Road, Gangkou Town
Zhongshan Guangdong 528447
CN

38-45-54 (hex) Harman/Becker Automotive Systems GmbH
384554 (base 16) Harman/Becker Automotive Systems GmbH
Becker-Göring-Straße 16
Karlsbad Baden-Württemberg 76307
DE

3C-E4-B0 (hex) Texas Instruments
3CE4B0 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

E8-01-15 (hex) COOCAA Network Technology CO.,TD.
E80115 (base 16) COOCAA Network Technology CO.,TD.
306, east block, Skyworth semiconductor design building, 18 Gaoxin South 4th Road, Gaoxin community, Yuehai street, Nanshan District, Shenzhen
shenzhen 0755-27357001
CN

8C-EA-12 (hex) Shenzhen MiaoMing Intelligent Technology Co.,Ltd
8CEA12 (base 16) Shenzhen MiaoMing Intelligent Technology Co.,Ltd
Chudong science and technology park, 111 shaxin road, tangxia town,
dongguan
city guangdong province 523710
CN

C8-BD-4D (hex) Samsung Electronics Co.,Ltd
C8BD4D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

88-81-B9 (hex) Huawei Device Co., Ltd.

8881B9 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

3C-38-F4 (hex) Sony Corporation
3C38F4 (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

0C-C4-13 (hex) Google, Inc.
0CC413 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

74-63-C2 (hex) Huawei Device Co., Ltd.
7463C2 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

D4-8F-A2 (hex) Huawei Device Co., Ltd.
D48FA2 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

2C-15-BF
(hex) Samsung Electronics Co.,Ltd
2C15BF (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

2C-B0-FD (hex) Shenzhen MiaoMing Intelligent Technology Co.,Ltd
2CB0FD (base 16) Shenzhen MiaoMing Intelligent Technology Co.,Ltd
Chudong science and technology park, 111 shaxin road, tangxia town,
dongguan city guangdong province 523710
CN

C4-FB-C8 (hex) Shenzhen Candour Co., Ltd.
C4FBC8 (base 16) Shenzhen Candour Co., Ltd.
Room 1501,East Building,Skyworth Semiconductor Building ,No.18,Gaoxin South 4th Road,Nanshan District
SHENZHEN GUANGDONG 518000
CN

2C-E0-32 (hex) TCL King Electrical Appliances(Huizhou)Co.,Ltd
2CE032 (base 16) TCL King Electrical Appliances(Huizhou)Co.,Ltd
B Area, 10th floor, TCL multimedia Building, TCL International E City, #1001 Zhonshanyuan road,Shenzhen
guangdong China 518058
CN

A0-D2-B1 (hex) Amazon Technologies Inc.
A0D2B1 (base 16) Amazon
Technologies Inc.
P.O Box 8102
Reno NV 89507
US

80-6D-71 (hex) Amazon Technologies Inc.
806D71 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

88-AC-9E (hex) Shenzhen YOUHUA Technology Co., Ltd
88AC9E (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

9C-36-F8 (hex) Hyundai Kefico
9C36F8 (base 16) Hyundai Kefico
102, Gosan-ro
Gunpo-si Gyeonggi-do 15849
KR

E0-B7-2E (hex) ShenZhen Qualmesh Technology Co.,Ltd.
E0B72E (base 16) ShenZhen Qualmesh Technology Co.,Ltd.
Room 03, 10th floor, building 1, kaidar group center building, 168 Tongsha Road, Xinwei community, Xili street, Nanshan District
Shenzhen Guangdong 518055
CN

08-16-05 (hex) Vodafone Italia S.p.A.
081605 (base 16) Vodafone Italia S.p.A.
Via Lorenteggio nr. 240
Milan Italy
20147
IT

1C-53-F9 (hex) Google, Inc.
1C53F9 (base 16) Google, Inc.
1600 Amphitheatre Parkway

Mountain View CA 94043
US

04-42-1A (hex) ASUSTek COMPUTER INC.
04421A (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

20-7C-14 (hex) Qotom
207C14 (base 16) Qotom
Huafeng Intelligence Valley, Hangcheng Street
Shenzhen GuangDong 518000
CN

B8-59-CE (hex) Earda Technologies co Ltd
B859CE (base 16) Earda Technologies co Ltd
Block A,Lianfeng Creative Park, #2 Jisheng Rd., Nansha District
Guangzhou Guangdong 511455
CN

10-00-20 (hex) Apple, Inc.
100020 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

94-64-24 (hex) Aruba, a Hewlett Packard Enterprise Company
946424 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

BC-1E-85 (hex) HUAWEI TECHNOLOGIES CO.,LTD
BC1E85
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B8-56-00 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B85600 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

30-5F-77 (hex) New H3C Technologies Co., Ltd
305F77 (base 16) New H3C Technologies Co., Ltd

466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

8C-7A-3D (hex) Xiaomi Communications Co Ltd
8C7A3D (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

98-7E-E3 (hex) vivo Mobile Communication Co., Ltd.
987EE3 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

8C-7A-AA (hex) Apple, Inc.
8C7AAA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

7C-24-99
(hex) Apple, Inc.
7C2499 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-0D-4E (hex) NDR Co.,LTD.
000D4E (base 16) NDR Co.,LTD.
Sumitomo seimei minatomachi MT BLDG
Osak Kinki 550-0015
JP

30-56-96 (hex) Infinix mobility limited
305696 (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

7C-B0-73 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
7CB073 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

0C-E5-A3 (hex) SharkNinja
0CE5A3 (base 16) SharkNinja
85 Cude Ln
Madison TN 37115
US

34-31-7F (hex) Panasonic Appliances Company
34317F (base 16) Panasonic Appliances Company
2-3-1-2 Noji-higashi
Kusatsu City Shiga 525-8555
JP

40-91-51
(hex) Espressif Inc.
409151 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

B0-E9-FE (hex) Woan Technology (Shenzhen) Co., Ltd.
B0E9FE (base 16) Woan Technology (Shenzhen) Co., Ltd.
1-2F, Building B4, Yintian Industrial Zone, Yantian Community, Xixiang Street, Bao'an District, Shenzhen, Guangdong, P.R.China
Shenzhen Guangdong 518102
CN

C8-96-65 (hex) Microsoft Corporation
C89665 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

CC-3F-8A (hex) KOMATSU LTD.
CC3F8A (base 16) KOMATSU LTD.
3-25-1, Shinomiya
Hiratsuka-Shi Kanagawa-Ken 254-8555
JP

EC-35-4D (hex) Wingtech Mobile Communications Co.,Ltd
EC354D (base 16) Wingtech Mobile Communications Co.,Ltd
No.777,Yazhong Road,Nanhu District
Jiaxing Zhejiang 314001
CN

7C-39-85 (hex) HUAWEI TECHNOLOGIES CO.,LTD
7C3985 (base 16) HUAWEI
TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park

Dongguan 523808
CN

00-BD-3E (hex) Vizio, Inc
00BD3E (base 16) Vizio, Inc
39 Tesla
Irvine CA 92618
US

18-F8-7F (hex) Wha Yu Industrial Co., Ltd.
18F87F (base 16) Wha Yu Industrial Co., Ltd.
No.326, Sec 2. Kung Tao 5 Road
HsinChu City Taiwan 30070
TW

E0-CB-56 (hex) Shenzhen iComm Semiconductor CO.,LTD
E0CB56 (base 16) Shenzhen iComm Semiconductor CO.,LTD
Room 601,Block B ,Digital Building,Garden City
Shenzhen No.1079 Nanhai Road,Nanshan District 518067
CN

40-E1-E4 (hex) Nokia Solutions and Networks GmbH & Co. KG
40E1E4 (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

90-F1-57 (hex) Garmin International
90F157 (base 16) Garmin International
1200 E. 151st St
Olathe KS 66062
US

FC-5C-45 (hex) Ruckus Wireless
FC5C45 (base
16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

10-F6-05 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
10F605 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

5C-8F-40 (hex) TECNO MOBILE LIMITED
5C8F40 (base 16) TECNO MOBILE LIMITED

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Hong Kong Hong Kong 999077
HK

58-48-49 (hex) IEEE Registration Authority
584849 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

E0-75-AA (hex) Beijing Jingling Information System Technology Co., Ltd.
E075AA (base 16) Beijing Jingling Information System Technology Co., Ltd.
2002.2nd Floor, A 36, Haidian Street, Haidian District
Beijing 100080
CN

E4-46-B0 (hex) Fujitsu Client Computing Limited
E446B0 (base 16) Fujitsu Client Computing Limited
1-1-2 Kashimada, Saiwai-ku
Kawasaki Kanagawa 212-0058
JP

44-AE-44 (hex) Huawei Device Co., Ltd.
44AE44 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

44-4F-8E (hex) WiZ
444F8E (base 16) WiZ
Unit 1203-5, 12/F, Tower 1, Enterprise Square, 9 Sheung Yuet Road
Kowloon Bay Hong Kong 0000
HK

08-99-E8 (hex) KEMAS GmbH
0899E8 (base 16) KEMAS GmbH
Wüstenbrander Str. 9
Oberlungwitz 09353
DE

04-B8-6A (hex) SKY UK LIMITED
04B86A (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

54-CE-82 (hex) zte corporation
54CE82 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

80-CB-BC (hex) Qingdao Intelligent&Precise Electronics Co.,Ltd.
80CBBC (base 16) Qingdao Intelligent&Precise
Electronics Co.,Ltd.
No.218 Qianwangang Road
Qingdao Shangdong 266510
CN

F4-A4-75 (hex) Intel Corporate
F4A475 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C8-9E-43 (hex) NETGEAR
C89E43 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

28-64-EF (hex) Shenzhen Fsan Intelligent Technology Co.,Ltd
2864EF (base 16) Shenzhen Fsan Intelligent Technology Co.,Ltd
Building 14C, Zhonghaixin Innovation Industry City, Ganli Road, Jihua street,
SHENZHEN GUANGDONG 518000
CN

18-07-12 (hex) Shenzhen Dazoo Technologies CO.,Ltd
180712 (base 16) Shenzhen Dazoo Technologies CO.,Ltd
Room 501, building B, pinchuanyuan science and technology park, shuidou xinwei village, yousong community, longhua street, longhua district, Shenzhen
518000 Shenzhen 518000
CN

F0-2A-2B (hex) IEEE Registration Authority
F02A2B (base 16) IEEE Registration Authority
445
Hoes Lane
Piscataway NJ 08554
US

20-BE-CD (hex) eero inc.
20BECD (base 16) eero inc.
660 3rd Street

San Francisco CA 94107
US

04-EC-D8 (hex) Intel Corporate
04ECD8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

70-07-77 (hex) OnTarget Technologies, Inc
700777 (base 16) OnTarget Technologies, Inc
355 Madison Ave
New York 10017
US

00-05-34 (hex) Northstar Engineering Ltd.
000534 (base 16) Northstar Engineering Ltd.
P.O. Box 40

GB

BC-09-1B (hex) Intel Corporate
BC091B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-26-A7 (hex) CONNECT SRL
0026A7 (base 16) CONNECT SRL
Via Cernaia, 11
Milan 20121
IT

8C-1D-96 (hex) Intel Corporate
8C1D96 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

60-DD-8E (hex) Intel Corporate
60DD8E
(base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

90-59-3C (hex) AZ-TECHNOLOGY SDN BHD
90593C (base 16) AZ-TECHNOLOGY SDN BHD

A108 & A109 BLOCK A KELANA BUSINESS CENTRE NO: 97 JALAN SS7/2 KELANA JAYA
PETALING JAYA SELANGOR 47301
MY

1C-C1-0C (hex) Intel Corporate
1CC10C (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-BF-AF (hex) Hui Zhou Gaoshengda Technology Co.,LTD
00BFAF (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

B4-EC-FF (hex) Wuhan IPG Technologies Co., Ltd.
B4ECFF (base 16) Wuhan IPG Technologies Co., Ltd.
Room 01, Floor 18, Building 15, No.18 Jinronggang 4th Road,Putian IOT R&D Base (2nd Phase), East Lak
Wuhan HUBEI 430070
CN

F0-57-A6 (hex) Intel Corporate
F057A6 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim
Kedah 09000
MY

64-26-77 (hex) BKM-Micronic Richtfunkanlagen GmbH
642677 (base 16) BKM-Micronic Richtfunkanlagen GmbH
Im Steinernen Kreuz 19
Wurmberg 75449
DE

1C-E6-39 (hex) HUAWEI TECHNOLOGIES CO.,LTD
1CE639 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

8C-67-94 (hex) vivo Mobile Communication Co., Ltd.
8C6794 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

00-14-41 (hex) Innovation Sound Technology Co., LTD.

001441 (base 16) Innovation Sound Technology Co., LTD.
Building 2th.,Cuihai Industrial Area,
Shenzhen Guangdong 518103
CN

20-D7-78 (hex) Texas Instruments
20D778 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

4C-2F-D7 (hex) Huawei Device Co., Ltd.
4C2FD7 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng
Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

D4-74-15 (hex) Huawei Device Co., Ltd.
D47415 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

50-58-6F (hex) Huawei Device Co., Ltd.
50586F (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

F0-B1-3F (hex) Huawei Device Co., Ltd.
F0B13F (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

7C-C2-55 (hex) Super Micro Computer, Inc.
7CC255 (base 16) Super Micro Computer, Inc.
980 Rock Ave
San Jose CA 95131
US

00-64-AF (hex) Dish Technologies Corp
0064AF (base 16) Dish Technologies Corp
94 Inverness Terrace E
Englewood CO 80111
US

E4-B5-03 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
E4B503 (base 16) Realme Chongqing Mobile Telecommunications
Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

EC-F4-0C (hex) Cisco Systems, Inc
ECF40C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

10-06-ED (hex) Cisco Systems, Inc
1006ED (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

D4-EB-68 (hex) Cisco Systems, Inc
D4EB68 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

C4-4D-84 (hex) Cisco Systems, Inc
C44D84 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

10-2C-EF (hex) EMU Electronic AG
102CEF (base 16) EMU Electronic AG
Joechlerweg 2
Baar Zug 6340
CH

C0-D0-63 (hex) EM Microelectronic
C0D063 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

7C-10-C9 (hex) ASUSTek COMPUTER INC.
7C10C9 (base 16) ASUSTek
COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112

TW

38-FF-13 (hex) Joint Stock Company Research Instinite Masshtab
38FF13 (base 16) Joint Stock Company Research Instinite Masshtab
5A, Kantemirovskaya st.
Saint-Petersburg 194100
RU

D0-DB-B7 (hex) Casa Systems
D0DBB7 (base 16) Casa Systems
18-20 Orion Road Lane Cove West
LANE COVE NSW 2066
AU

20-53-83 (hex) HUAWEI TECHNOLOGIES CO.,LTD
205383 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B8-85-7B (hex) HUAWEI TECHNOLOGIES CO.,LTD
B8857B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

50-D0-65 (hex) ESYLUX GmbH
50D065 (base 16) ESYLUX GmbH
An der Strusbek, 40
Ahrensburg Deutschland 22926
DE

A8-67-1E (hex) RATP
A8671E (base 16) RATP
117,
AVENUE MICHELET
SAINT-OUEN 93400
FR

8C-E9-B4 (hex) Zhejiang Dahua Technology Co., Ltd.
8CE9B4 (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

6C-CF-39 (hex) Guangdong Starfive Technology Co., Ltd.
6CCF39 (base 16) Guangdong Starfive Technology Co., Ltd.
Room S201, Zone A, No.2 Haoyang Road, Yunlu Community, Daliang Street, Shunde District, Foshan,

Guangdong, 528309, China
Foshan Guangdong 528309
CN

D8-8C-73 (hex) zte corporation
D88C73 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

E8-78-65 (hex) Apple, Inc.
E87865 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B4-CD-F5 (hex) CUB ELECPARTS INC.
B4CDF5 (base 16) CUB ELECPARTS INC.
No. 6, Lane 546, Sec. 6, Changlu Road
Fuhsin Township, Changhua County Taiwan 50648
TW

A0-4E-CF (hex) Apple,
Inc.
A04ECF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

08-87-C7 (hex) Apple, Inc.
0887C7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

38-65-B2 (hex) Apple, Inc.
3865B2 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-DE-3A (hex) Apple, Inc.
D8DE3A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

08-85-5B (hex) Kontron Europe GmbH

08855B (base 16) Kontron Europe GmbH
Gutenbergstraße 2
Ismaning 85737
DE

E8-4F-A7 (hex) Huawei Device Co., Ltd.
E84FA7 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

44-9F-46 (hex) Huawei Device Co., Ltd.
449F46 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

34-51-84 (hex) Huawei Device Co., Ltd.
345184 (base 16) Huawei
Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

FC-F7-7B (hex) Huawei Device Co., Ltd.
FCF77B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

84-47-09 (hex) Shenzhen IP3 Century Intelligent Technology CO.,Ltd
844709 (base 16) Shenzhen IP3 Century Intelligent Technology CO.,Ltd
aiying.li@ip3-tech.com
Shenzhen 518057
CN

5C-D0-6E (hex) Xiaomi Communications Co Ltd
5CD06E (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

00-91-EB (hex) Renesas Electronics (Penang) Sdn. Bhd.
0091EB (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

DC-F5-6E (hex) Wellysis Corp.
DCF56E (base 16) Wellysis Corp.
311 Gangnam-daero
Seocho-gu Seoul 06628
KR

EC-08-E5
(hex) Motorola Mobility LLC, a Lenovo Company
EC08E5 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

80-CC-9C (hex) NETGEAR
80CC9C (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

28-0F-EB (hex) LG Innotek
280FEB (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

74-E2-0C (hex) Amazon Technologies Inc.
74E20C (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

4C-D5-77 (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
4CD577 (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

64-ED-57 (hex) ARRIS Group, Inc.
64ED57 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

74-5D-68 (hex) Fiberhome Telecommunication Technologies Co.,LTD
745D68
(base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074

CN

20-CF-AE (hex) Cisco Systems, Inc
20CFAE (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

CC-15-31 (hex) Intel Corporate
CC1531 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C0-F9-B0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C0F9B0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

14-8C-4A (hex) HUAWEI TECHNOLOGIES CO.,LTD
148C4A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

60-9B-B4 (hex) HUAWEI TECHNOLOGIES CO.,LTD
609BB4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

10-54-03 (hex) INTARSO GmbH
105403
(base 16) INTARSO GmbH
Schuchardstr. 3
Düsseldorf NRW 40595
DE

7C-27-BC (hex) Hui Zhou Gaoshengda Technology Co.,LTD
7C27BC (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

C0-23-8D (hex) Samsung Electronics Co.,Ltd
C0238D (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu

Suwon Gyeonggi-Do 16677
KR

50-70-97 (hex) China Mobile Group Device Co.,Ltd.
507097 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

0C-60-46 (hex) vivo Mobile Communication Co., Ltd.
0C6046 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

CC-2D-8C (hex) LG ELECTRONICS INC
CC2D8C (base 16) LG ELECTRONICS INC
19-1,Cheongho-Ri,Jinwi-Myeon
Pyeongtaek Gyeonggi-Do 451-713
KR

0C-9A-3C
(hex) Intel Corporate
0C9A3C (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

DC-21-48 (hex) Intel Corporate
DC2148 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

44-DB-60 (hex) Nanjing Baihezhengliu Technology Co., Ltd
44DB60 (base 16) Nanjing Baihezhengliu Technology Co., Ltd
Science and technology innovation center, Shiqiu street, Lishui District
Nanjing Jiangsu 211222
CN

B8-B7-7D (hex) Guangdong Transtek Medical Electronics CO.,Ltd
B8B77D (base 16) Guangdong Transtek Medical Electronics CO.,Ltd
Zone A, No.105 ,Dongli Road, Torch Development District Zhongshan , CN 528437
Zhongshan Guangdong 528437
CN

C4-78-A2 (hex) Huawei Device Co., Ltd.
C478A2 (base 16) Huawei Device Co., Ltd.

No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C0-FB-F9 (hex) IEEE Registration Authority
C0FBF9 (base 16) IEEE
Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

28-11-A8 (hex) Intel Corporate
2811A8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

74-CF-00 (hex) Shenzhen SuperElectron Technology Co.,Ltd.
74CF00 (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

58-91-53 (hex) China Mobile IOT Company Limited
589153 (base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area
Chongqing Chongqing 401336
CN

98-7D-DD (hex) China Mobile Group Device Co.,Ltd.
987DDD (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

B8-13-32 (hex) AMPAK Technology,Inc.
B81332 (base 16) AMPAK Technology,Inc.
3F, No.15-1 Zhonghua Road, Hsinchu Industrail Park, Hukou,
Hsinchu
Hsinchu,Taiwan R.O.C. 30352
TW

AC-E1-4F (hex) Autonomic Controls, Inc.
ACE14F (base 16) Autonomic Controls, Inc.
28 Kaysal Ct
ARMONK NY 10504
US

AC-97-6C (hex) Greenliant
AC976C (base 16) Greenliant
3970 Freedom Circle, Suite 100
Santa Clara CA 95054
US

2C-EA-DC (hex) ASKEY COMPUTER CORP
2CEADC (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

9C-5A-81 (hex) Xiaomi Communications Co Ltd
9C5A81 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

64-3A-B1 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
643AB1 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12,TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road, Chengdu, Sichuan
Chengdu Sichuan 610000
CN

80-48-A5 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
8048A5
(base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12,TowerB,TianYi International Hotel
Chengdu Sichuan 61000
CN

44-BA-46 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
44BA46 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12,TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

9C-32-A9 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
9C32A9 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12, TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

90-86-74 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
908674 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12, TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

9C-9E-71 (hex) Huawei Device Co., Ltd.
9C9E71 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan
Guangdong 523808
CN

98-49-9F (hex) Domo Tactical Communications
98499F (base 16) Domo Tactical Communications
DTC Fusion 2, 1100 Parkway
Whiteley Hampshire PO15 7AB
GB

88-C9-B3 (hex) IEEE Registration Authority
88C9B3 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

58-13-D3 (hex) Gemtek Technology Co., Ltd.
5813D3 (base 16) Gemtek Technology Co., Ltd.
No.15-1 Zhonghua Road
Hukou Hsinchu 30352
TW

20-1E-88 (hex) Intel Corporate
201E88 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

20-6A-94 (hex) Hitron Technologies. Inc
206A94 (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

30-95-87 (hex) HUNAN FN-LINK TECHNOLOGY LIMITED
309587 (base 16) HUNAN FN-LINK TECHNOLOGY LIMITED
No.8, Litong Road, Liuyan Economic & Tec
Changsha
HUNAN 410329
CN

20-CE-2A (hex) IEEE Registration Authority
20CE2A (base 16) IEEE Registration Authority
445 Hoes Lane

Piscataway NJ 08554
US

7C-F6-66 (hex) Tuya Smart Inc.
7CF666 (base 16) Tuya Smart Inc.
160 Greentree Drive, Suite 101
Dover DE 19904
US

68-26-2A (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
68262A (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12, TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

B8-22-4F (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
B8224F (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12, TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

C8-BD-69 (hex) Samsung Electronics Co.,Ltd
C8BD69 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A8-76-50 (hex) Samsung Electronics Co.,Ltd
A87650
(base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

54-D1-7D (hex) Samsung Electronics Co.,Ltd
54D17D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

60-3A-AF (hex) Samsung Electronics Co.,Ltd
603AAF (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C0-4B-13 (hex) WonderSound Technology Co., Ltd
C04B13 (base 16) WonderSound Technology Co., Ltd

10A, Center of Shenmao, News Road 59, Meiling community, Lianhua Street, Futian district
Shenzhen 518034
CN

9C-7F-81 (hex) SHENZHEN FAST TECHNOLOGIES CO.,LTD
9C7F81 (base 16) SHENZHEN FAST TECHNOLOGIES CO.,LTD
Room 202,Building No.5,Section 30,No.2 of Kefa Road,Nanshan District,Shenzhen,P.R.China
Shenzhen Guangdong 518057
CN

64-27-53 (hex) Huawei Device Co., Ltd.
642753 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road,
Songshan Lake Zone
Dongguan Guangdong 523808
CN

28-53-4E (hex) HUAWEI TECHNOLOGIES CO.,LTD
28534E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

5C-B0-0A (hex) HUAWEI TECHNOLOGIES CO.,LTD
5CB00A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-E5-E4 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
00E5E4 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

14-69-A2 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
1469A2 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
NO.198 FIRST SECTION,SNOW MOUNTAIN AVENUE, JINYUAN TOWN, DAYI COUNTY,
CHENGDU SICHUAN 611330
CN

04-6B-25 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
046B25 (base 16) Sichuan Tianyi
Comheart Telecom Co.,LTD
NO.198 FIRST SECTION,SNOW MOUNTAIN AVENUE, JINYUAN TOWN, DAYI COUNTY,
CHENGDU SICHUAN 611330
CN

10-12-B4 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
1012B4 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
NO.198 FIRST SECTION,SNOW MOUNTAIN AVENUE, JINYUAN TOWN, DAYI COUNTY,
CHENGDU SICHUAN 611330
CN

10-2D-41 (hex) Sichuan AI-Link Technology Co., Ltd.
102D41 (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou, Industrial Park
Mianyang Sichuan 622650
CN

DC-87-CB (hex) Beijing Perfectek Technologies Co., Ltd.
DC87CB (base 16) Beijing Perfectek Technologies Co., Ltd.
A-17, No. 101, 6F, Building 24, No. 68, Beiqing Road, Haidian District
Beijing Beijing 100094
CN

F4-02-28 (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
F40228 (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak SEMTHAI, WELLGROW INDUSTRIAL ESTATE
Bangpakong Chachoengsao 24180
TH

0C-83-CC
(hex) Alpha Networks Inc.
0C83CC (base 16) Alpha Networks Inc.
No.8 Li-shing 7th Rd., Science-based Industrial Park, Hsinchu, Taiwan, R.O.C
Hsinchu Taiwan 300
TW

C8-B6-FE (hex) Fitbit, Inc.
C8B6FE (base 16) Fitbit, Inc.
199 Fremont Street, 14th Fl
San Francisco CA 94105
US

18-7C-AA (hex) China Mobile Group Device Co.,Ltd.
187CAA (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

00-1C-C5 (hex) 3Com Ltd
001CC5 (base 16) 3Com Ltd
Peoplebuilding 2
Hemel Hempstead Herts HP2 4NW
GB

E8-4F-25 (hex) Murata Manufacturing Co., Ltd.
E84F25 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

04-25-E0 (hex) Taicang T&W Electronics
0425E0 (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

38-52-47 (hex) Huawei Device Co., Ltd.
385247
(base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C4-BC-D7 (hex) New Ryatek
C4BCD7 (base 16) New Ryatek
Room 103, 1st floor, building 19, yard 1, Baosheng South Road, Haidian District, Beijing
Beijing Beijing 100192
CN

C0-AE-FD (hex) Shenzhen HC-WLAN Technology Co.,Ltd
C0AEFD (base 16) Shenzhen HC-WLAN Technology Co.,Ltd
Room 201E, Block D, Donghai Wang Industrial Zone, No. 369, Bulong Road, Bantian Street, Longgang District
Shenzhen Guangdong 518129
CN

C0-DC-D7 (hex) Huawei Device Co., Ltd.
C0DCD7 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

30-37-B3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
3037B3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

30-85-EB (hex) Fiberhome Telecommunication Technologies
Co.,LTD
3085EB (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road

Wuhan Hubei 430074
CN

84-06-FA (hex) Fiberhome Telecommunication Technologies Co.,LTD
8406FA (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

B8-D4-3E (hex) vivo Mobile Communication Co., Ltd.
B8D43E (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

14-CB-19 (hex) HP Inc.
14CB19 (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

EC-B9-70 (hex) Ruijie Networks Co.,LTD
ECB970 (base 16) Ruijie Networks Co.,LTD
No. 2, 7th floor, xingwangruijie, haixi hi-tech industrial park, high-tech zone, fuzhou city
Fuzhou Fujian 350002
CN

30-83-98 (hex) Espressif Inc.
308398 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

F8-89-D2
(hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
F889D2 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

10-27-F5 (hex) TP-Link Corporation Limited
1027F5 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

84-8C-8D (hex) Apple, Inc.
848C8D (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

0C-E4-41 (hex) Apple, Inc.
0CE441 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B8-2A-A9 (hex) Apple, Inc.
B82AA9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

78-64-C0 (hex) Apple, Inc.
7864C0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E8-1C-D8 (hex) Apple, Inc.
E81CD8 (base 16) Apple,
Inc.
1 Infinite Loop
Cupertino CA 95014
US

3C-06-30 (hex) Apple, Inc.
3C0630 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

74-15-75 (hex) Xiaomi Communications Co Ltd
741575 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

7C-55-A7 (hex) Kastle Systems
7C55A7 (base 16) Kastle Systems
6402 Arlington Blvd
Falls Church VA 22042
US

FC-E8-06 (hex) Edifier International

FCE806 (base 16) Edifier International
Suit 2207, 22nd floor, Tower II, Lippo centre, 89 Queensway
Hong Kong 070
CN

30-78-D3 (hex) Virgilant Technologies Ltd.
3078D3 (base 16) Virgilant Technologies Ltd.
2F., No.3, Aly. 19, Lane 8, Tianmu E. Rd.,Shilin Dist.,
Taipei City Taiwan 11153
TW

00-17-E8 (hex) Texas Instruments
0017E8 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX
75243
US

E8-EA-4D (hex) HUAWEI TECHNOLOGIES CO.,LTD
E8EA4D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

3C-FF-D8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
3CFFD8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

40-BE-EE (hex) Shenzhen Yunding Information Technology Co.,Ltd
40BEEE (base 16) Shenzhen Yunding Information Technology Co.,Ltd
32G, Tower E, CR Land Building, Tong Gu Road 5#, Nanshan District,,Guangdong,CN
Shenzhen Guangdong 518000
CN

A4-4C-62 (hex) Hangzhou Microimage Software Co., Ltd
A44C62 (base 16) Hangzhou Microimage Software Co., Ltd
Room 313, Unit B, Building 2, 399 Danfeng Road, Binjiang District
Hangzhou Zhejiang 310051
CN

CC-86-EC (hex) Silicon Laboratories
CC86EC (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin
78701
US

9C-82-81 (hex) vivo Mobile Communication Co., Ltd.
9C8281 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

4C-61-7E (hex) Huawei Device Co., Ltd.
4C617E (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E0-E3-7C (hex) Huawei Device Co., Ltd.
E0E37C (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

24-18-C6 (hex) HUNAN FN-LINK TECHNOLOGY LIMITED
2418C6 (base 16) HUNAN FN-LINK TECHNOLOGY LIMITED
No.8, Litong Road, Liuyan Economic & Tec
Changsha HUNAN 410329
CN

50-C2-ED (hex) GN Audio A/S
50C2ED (base 16) GN Audio A/S
Lautrupbjerg 7
Ballerup DK-2750
DK

90-A8-22 (hex) Amazon Technologies Inc.
90A822 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

0C-5C-B5
(hex) IEEE Registration Authority
0C5CB5 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

74-AD-98 (hex) Cisco Systems, Inc
74AD98 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568

US

64-97-14 (hex) eero inc.
649714 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

B4-10-7B (hex) Texas Instruments
B4107B (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

00-C0-6A (hex) Zahner-Elektrik Ingeborg Zahner-Schiller GmbH & Co. KG.
00C06A (base 16) Zahner-Elektrik Ingeborg Zahner-Schiller GmbH & Co. KG.
Thüringer Str. 12
Kronach - Gundelsdorf Bavaria 96317
DE

8C-43-61 (hex) Hailo Digital Hub GmbH & Co. KG
8C4361 (base 16) Hailo Digital Hub GmbH & Co. KG
Lahnstrasse 3a
Giessen Hessen 35398
DE

48-51-CF (hex) Intelbras
4851CF (base 16) Intelbras
BR 101, km 210, S/N°
São José
Santa Catarina 88104800
BR

4C-5D-3C (hex) Cisco Systems, Inc
4C5D3C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

34-73-2D (hex) Cisco Systems, Inc
34732D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E4-41-64 (hex) Nokia
E44164 (base 16) Nokia
600 March Road

Kanata Ontario K2K 2E6
CA

08-81-B2 (hex) Logitech (China) Technology Co., Ltd
0881B2 (base 16) Logitech (China) Technology Co., Ltd
1111 Changshou Road
Shanghai 200001
CN

C4-F1-74 (hex) eero inc.
C4F174 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

28-D0-EA (hex) Intel Corporate
28D0EA (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

E0-0C-E5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E00CE5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan
523808
CN

D4-47-5A (hex) ScreenBeam, Inc.
D4475A (base 16) ScreenBeam, Inc.
3301 Olcott St
Santa Clara CA 95054
US

78-A6-A0 (hex) Hangzhou Ezviz Software Co.,Ltd.
78A6A0 (base 16) Hangzhou Ezviz Software Co.,Ltd.
Room 302, Unit B, Building 2, 399 Danfeng Road,Binjiang District
Hangzhou Zhejiang 310051
CN

F4-6B-8C (hex) Hon Hai Precision Industry Co., Ltd.
F46B8C (base 16) Hon Hai Precision Industry Co., Ltd.
GuangDongShenZhen
ShenZhen GuangDong 518109
CN

FC-34-97 (hex) ASUSTek COMPUTER INC.
FC3497 (base 16) ASUSTek COMPUTER INC.

15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

AC-13-9C (hex) Adtran Inc
AC139C (base 16) Adtran Inc
901 Explorer Blvd.
Huntsville AL 35806-2807
US

A4-CE-DA (hex) Arcadyan Corporation
A4CEDA (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

84-7A-B6 (hex) AltoBeam
(China) Inc.
847AB6 (base 16) AltoBeam (China) Inc.
B808, Tsinghua Tongfang Hi-Tech Plaza, Haidian
Beijing Beijing 100083
CN

04-7B-CB (hex) Universal Global Scientific Industrial Co., Ltd.
047BCB (base 16) Universal Global Scientific Industrial Co., Ltd.
141, Lane 351, Taiping Road, Sec.1,Tsao Tuen
Nan-Tou Taiwan 54261
TW

28-41-EC (hex) HUAWEI TECHNOLOGIES CO.,LTD
2841EC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

7C-00-4D (hex) HUAWEI TECHNOLOGIES CO.,LTD
7C004D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

1C-99-57 (hex) Intel Corporate
1C9957 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

04-D3-20 (hex) ITEL MOBILE LIMITED

04D320 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL
BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

8C-34-46 (hex) Huawei Device Co., Ltd.
8C3446 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

80-47-86 (hex) Samsung Electronics Co.,Ltd
804786 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

34-E9-FE (hex) Metis Co., Ltd.
34E9FE (base 16) Metis Co., Ltd.
25, Saenari-ro, Bundang-gu
Seongnam-si Gyeonggi-do 13509
KR

98-C3-D2 (hex) Ningbo Sanxing Medical Electric Co.,Ltd
98C3D2 (base 16) Ningbo Sanxing Medical Electric Co.,Ltd
No.26 FengWan Road,Cicheng Town,Jiangbei District,Ningbo,China
Ningbo 315029
CN

24-5D-FC (hex) IEEE Registration Authority
245DFC (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

D8-EC-E5 (hex) Zyxel Communications Corporation
D8ECE5
(base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

C4-70-AB (hex) Ruijie Networks Co.,LTD
C470AB (base 16) Ruijie Networks Co.,LTD
No. 2, 7th floor, xingwangruijie, haixi hi-tech industrial park, high-tech zone, fuzhou city
Fuzhou Fujian 350002
CN

CC-6B-1E (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
CC6B1E (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

F0-D0-8C (hex) TCT mobile ltd
F0D08C (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

E0-E8-BB (hex) Unicom Vsens Telecommunications Co., Ltd.
E0E8BB (base 16) Unicom Vsens Telecommunications Co., Ltd.
Room612,613,615,6Floors,Block3,Hengji center,N0.18 Jianguomen inner Street,Dondcheng Distict, Beijing,P.R.China
Beijing 100005
CN

98-27-82 (hex) IEEE Registration Authority
982782 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

FC-40-09 (hex) zte corporation
FC4009 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

24-A6-5E (hex) zte corporation
24A65E (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

50-98-39 (hex) Xiaomi Communications Co Ltd
509839 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

CC-81-2A (hex) vivo Mobile Communication Co., Ltd.
CC812A (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860

CN

7C-1B-93 (hex) Huawei Device Co., Ltd.
7C1B93 (base 16) Huawei Device
Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

DC-2D-3C (hex) Huawei Device Co., Ltd.
DC2D3C (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E4-55-A8 (hex) Cisco Meraki
E455A8 (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco 94158
US

30-F9-4B (hex) Universal Electronics, Inc.
30F94B (base 16) Universal Electronics, Inc.
201 E. Sandpointe Ave
Santa Ana CA 92707
US

04-11-19 (hex) IEEE Registration Authority
041119 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

38-A0-67 (hex) Nokia Solutions and Networks GmbH & Co. KG
38A067 (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

18-A6-F7 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
18A6F7 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building
24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

E4-C9-0B (hex) Radwin
E4C90B (base 16) Radwin

Habarzel 27
Tel Aviv -- select -- 6971039
IL

70-DF-F7 (hex) ARRIS Group, Inc.
70DFF7 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

64-07-F6 (hex) Samsung Electronics Co.,Ltd
6407F6 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

5C-C3-36 (hex) ittim
5CC336 (base 16) ittim
1202, No.6, Zhongguancun South Street, Haidian District,
beijing 100080
CN

FC-04-1C (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
FC041C (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

00-3D-E1 (hex) Huawei Device Co., Ltd.
003DE1 (base 16) Huawei Device Co., Ltd.
No.2
of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

F0-6F-46 (hex) Ubiik
F06F46 (base 16) Ubiik
2F, No. 151, Aikou 1st Street,
Zhubei City Hsinchu County 302
TW

B0-60-88 (hex) Intel Corporate
B06088 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

48-00-7D (hex) DTS ELEKTRONIK SAN. TIC. LTD. STI.

48007D (base 16) DTS ELEKTRONIK SAN. TIC. LTD. STI.
MAHMUTBEY MAH. 2650.SOK. NO:21
ISTANBUL 34218
TR

30-B1-B5 (hex) Arcadyan Corporation
30B1B5 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

68-AB-BC (hex) Beijing Xiaomi Mobile Software Co., Ltd
68ABBC (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

F4-D4-88 (hex) Apple, Inc.
F4D488 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

68-2F-67 (hex) Apple, Inc.
682F67 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

50-ED-3C (hex) Apple, Inc.
50ED3C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-14-DF (hex) TCL King Electrical Appliances (Huizhou) Co., Ltd
D814DF (base 16) TCL King Electrical Appliances (Huizhou) Co., Ltd
10F, TCL Multimedia Building, TCL International E City, No.1001 Zhongshanyuan Rd., Nanshan District
Shenzhen Guangdong 518052
CN

90-02-7A (hex) Shenzhen Sworix Techonlogy Co., Ltd
90027A (base 16) Shenzhen Sworix Techonlogy Co., Ltd
Room202, 2nd floor, Jianghao commercial center, Jianghao Industrial area,Jihua road 430, Bantian, Longgang
Shenzhen 518129
CN

D0-5A-FD (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
D05AFD (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District,
Chongqing.
Chongqing China 401120
CN

34-C1-03 (hex) Hangzhou Huamu Technology Co.,Ltd.
34C103 (base 16) Hangzhou Huamu Technology Co.,Ltd.
Xiangnan village,Yiqiao Town,Xiaoshan District,Hangzhou City,Zhejiang
Hangzhou 311256
CN

58-41-20 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
584120 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

3C-06-A7 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
3C06A7 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

24-E9-27 (hex) TomTom International BV
24E927 (base 16) TomTom International BV
Oosterdoksstraat 114
Amsterdam North Holland 1011 DK
NL

F0-F5-64 (hex) Samsung Electronics Co.,Ltd
F0F564 (base 16) Samsung Electronics
Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

70-89-76 (hex) Tuya Smart Inc.
708976 (base 16) Tuya Smart Inc.
FLAT/RM 806 BLK ? 8/F CHEUNG SHA WAN PLAZA 833 CHEUNG SHA WAN ROAD KL
hongkong Hong Kong 999077
CN

24-5B-83 (hex) Renesas Electronics (Penang) Sdn. Bhd.
245B83 (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900

MY

84-5C-F3 (hex) Intel Corporate
845CF3 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

2C-79-3D (hex) Boditech Med
2C793D (base 16) Boditech Med
43, Geodudanji 1-gil, Dongnae-myeon,
Chuncheon-si, Gangwon-do 24398
KR

6C-02-E0 (hex) HP Inc.
6C02E0 (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

F0-AC-A4 (hex) HBC-radiomatic
F0ACA4 (base 16) HBC-radiomatic
Haller Str. 45-53
Crailsheim Baden Wurttemberg 74564
DE

64-D7-C0 (hex) Huawei
Device Co., Ltd.
64D7C0 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

94-60-10 (hex) Huawei Device Co., Ltd.
946010 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

90-3C-B3 (hex) Edgecore Networks Corporation
903CB3 (base 16) Edgecore Networks Corporation
1 Creation RD 3.
Hsinchu 30077
TW

80-22-78 (hex) China Mobile IOT Company Limited
802278 (base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area

Chongqing Chongqing 401336
CN

64-13-AB (hex) HUAWEI TECHNOLOGIES CO.,LTD
6413AB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

0C-73-29 (hex) Sercomm Corporation.
0C7329 (base 16) Sercomm Corporation.
3F,No.81,Yu-Yih Rd.,Chu-Nan Chen
Miao-Lih Hsuan 115
TW

6C-13-D5
(hex) Cisco Systems, Inc
6C13D5 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F8-97-25 (hex) OPPLE LIGHTING CO., LTD
F89725 (base 16) OPPLE LIGHTING CO., LTD
Building V3, The MIXC, Lane 1799, Wuzhong Road, Minhang District
Shanghai Shanghai 201103
CN

54-66-F9 (hex) ConMet
5466F9 (base 16) ConMet
5701 SE Columbia Way
Vancouver WA 98661
US

8C-64-D4 (hex) Hyeco Smart Tech Co.,Ltd
8C64D4 (base 16) Hyeco Smart Tech Co.,Ltd
12 Beiqian Lane,Industrial Park
Suzhou Jiangsu 215000
CN

14-23-0A (hex) HUAWEI TECHNOLOGIES CO.,LTD
14230A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

58-AE-A8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
58AEA8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

6C-D7-04
(hex) HUAWEI TECHNOLOGIES CO.,LTD
6CD704 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

54-3A-D6 (hex) Samsung Electronics Co.,Ltd
543AD6 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

54-46-17 (hex) zte corporation
544617 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

84-44-AF (hex) Zhejiang Tmall Technology Co., Ltd.
8444AF (base 16) Zhejiang Tmall Technology Co., Ltd.
Ali Center,No.3331 Keyuan South RD (Shenzhen bay), Nanshan District, Shenzhen Guangdong province
Shenzhen GuangDong 518000
CN

8C-DE-F9 (hex) Beijing Xiaomi Mobile Software Co., Ltd
8CDEF9 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

D0-3C-1F
(hex) Intel Corporate
D03C1F (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

A0-3D-6E (hex) Cisco Systems, Inc
A03D6E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

B0-8B-D0 (hex) Cisco Systems, Inc
B08BD0 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

5C-85-F8 (hex) SHENZHEN KAIFA TECHNOLOGY CO.,LTD.
5C85F8 (base 16) SHENZHEN KAIFA TECHNOLOGY CO.,LTD.
7006 Caitian Rd., Futian Dist.
Shen Zhen Guang Dong 518035
CN

9C-BC-F0 (hex) Xiaomi Communications Co Ltd
9CBCF0 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

0C-48-85 (hex) LG Electronics (Mobile Communications)
0C4885 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

70-E4-6E (hex) Lytx
70E46E
(base 16) Lytx
9785 Towne Centre Drive
San Diego CA 92121
US

58-AE-2B (hex) Huawei Device Co., Ltd.
58AE2B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E4-3C-80 (hex) University of Oklahoma
E43C80 (base 16) University of Oklahoma
Advanced Radar Research Center
Norman OK 73019
US

A8-F7-66 (hex) ITE Tech Inc
A8F766 (base 16) ITE Tech Inc
3F, No.13, Chuangsin 1st Rd., Hsinchu Science Park
Hsinchu Taiwan 30076
TW

7C-21-0D (hex) Cisco Systems, Inc
7C210D (base 16) Cisco Systems, Inc
80 West Tasman Dr.
San Jose CA 94568
US

34-FE-C5 (hex) Shenzhen Sunwoda intelligent hardware Co.,Ltd
34FEC5 (base 16) Shenzhen Sunwoda intelligent hardware Co.,Ltd
No.6-6,Yan Shan Rd.,Baoan District,Shenzhen City,China
Shenzhen Guangdong 518105
CN

94-A6-7E (hex) NETGEAR
94A67E (base 16) NETGEAR
350
East Plumeria Drive
San Jose CA 95134
US

FC-D4-36 (hex) Motorola Mobility LLC, a Lenovo Company
FCD436 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

0C-EC-8D (hex) Motorola Mobility LLC, a Lenovo Company
0CEC8D (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

18-4F-5D (hex) JRC Mobility Inc.
184F5D (base 16) JRC Mobility Inc.
NAKANO CENTRAL PARK EAST 10-1, Nakano 4-chome
Nakano-ku Tokyo 164-8570
JP

10-3F-44 (hex) Xiaomi Communications Co Ltd
103F44 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

8C-34-01 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
8C3401 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860

CN

00-0B-DE
(hex) TELDIX GmbH
000BDE (base 16) TELDIX GmbH
Grenzhoefer Weg 36
Heidelberg 69123
DE

A4-6B-B6 (hex) Intel Corporate
A46BB6 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

FC-0C-45 (hex) Shenzhen SuperElectron Technology Co.,Ltd.
FC0C45 (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

54-67-E6 (hex) SHENZHEN MTC CO LTD
5467E6 (base 16) SHENZHEN MTC CO LTD
5th Floor, 3rd Building, SHENZHEN MTC Industrial Park, XiaLilang Rd, Nanwan Street, Long’gang District
Shenzhen Guangdong 518100
CN

D4-39-B8 (hex) Ciena Corporation
D439B8 (base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

14-B2-E5 (hex) Shenzhen iComm Semiconductor CO.,LTD
14B2E5 (base 16) Shenzhen iComm Semiconductor CO.,LTD
Room
601,Block B ,Digital Building,Garden City
Shenzhen No.1079 Nanhai Road,Nanshan District 518067
CN

24-9F-89 (hex) Texas Instruments
249F89 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

24-76-25 (hex) Texas Instruments
247625 (base 16) Texas Instruments

12500 TI Blvd
Dallas TX 75243
US

F8-7A-41 (hex) Cisco Systems, Inc
F87A41 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

84-F1-47 (hex) Cisco Systems, Inc
84F147 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

74-E9-BF (hex) HUAWEI TECHNOLOGIES CO.,LTD
74E9BF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D8-10-9F (hex) HUAWEI TECHNOLOGIES CO.,LTD
D8109F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

3C-54-47
(hex) HUAWEI TECHNOLOGIES CO.,LTD
3C5447 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-6B-6F (hex) HUAWEI TECHNOLOGIES CO.,LTD
006B6F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

60-35-73 (hex) Earda Technologies co Ltd
603573 (base 16) Earda Technologies co Ltd
Block A,Lianfeng Creative Park, #2 Jisheng Rd., Nansha District
Guangzhou Guangdong 511455
CN

A4-97-33 (hex) ASKEY COMPUTER CORP

A49733 (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

F0-2F-74 (hex) ASUSTek COMPUTER INC.
F02F74 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

00-6E-02 (hex) Xovis AG
006E02 (base 16) Xovis AG
Industriestrasse 1
Zollikofen
Bern 3052
CH

2C-18-75 (hex) Skyworth Digital Technology(Shenzhen) Co.,Ltd
2C1875 (base 16) Skyworth Digital Technology(Shenzhen) Co.,Ltd
7F,Block A,Skyworth Building,
Shenzhen Guangdong 518057
CN

D0-6E-DE (hex) Sagemcom Broadband SAS
D06EDE (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

08-CB-E5 (hex) R3 Solutions GmbH
08CBE5 (base 16) R3 Solutions GmbH
Kurfürstendamm 21
Berlin 10719
DE

48-25-67 (hex) Poly
482567 (base 16) Poly
6001 America Center Drive
San Jose CA 95002
US

A8-9A-D7 (hex) Nokia
A89AD7 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

18-11-71 (hex) Guangzhou Doctorpai Education & Technology Co.,Ltd
181171 (base 16) Guangzhou Doctorpai Education & Technology Co.,Ltd
Floor 5, Building C1, Greenland Central Plaza
Huangpu District, Guangzhou Guangdong Province 510700
CN

AC-F8-5C
(hex) Chengdu Higon Integrated Circuit Design Co,. Ltd.
ACF85C (base 16) Chengdu Higon Integrated Circuit Design Co,. Ltd.
Suite22-31, 11Floor, Block E5,Tianfu Software Park, Chengdu Gaoxin District
Chengdu Sichuan 610041
CN

00-E9-3A (hex) AzureWave Technology Inc.
00E93A (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

78-F0-9B (hex) Huawei Device Co., Ltd.
78F09B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

48-EF-61 (hex) Huawei Device Co., Ltd.
48EF61 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E0-77-26 (hex) Huawei Device Co., Ltd.
E07726 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

44-F2-1B (hex) Apple, Inc.
44F21B (base
16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

74-65-0C (hex) Apple, Inc.
74650C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

E0-6D-17 (hex) Apple, Inc.
E06D17 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-B3-EC (hex) Apple, Inc.
F0B3EC (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F4-65-A6 (hex) Apple, Inc.
F465A6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-23-AE (hex) AMPAK Technology,Inc.
F023AE (base 16) AMPAK Technology,Inc.
3F, No.15-1 Zhonghua Road, Hsinchu Industrail Park, Hukou,
Hsinchu Hsinchu,Taiwan R.O.C. 30352
TW

00-34-A1 (hex) RF-LAMBDA USA INC.
0034A1 (base 16) RF-LAMBDA USA INC.
9115 Brown Deer Road | San Diego
CA 92121
US

24-94-94 (hex) Hong Kong Bouffalo Lab Limited
249494 (base 16) Hong Kong Bouffalo Lab Limited
RM 1903, 19/F Lee Garden
One 33 Hysan Avenue, Causeway Bay
HongKong 999077
HK

30-BE-3B (hex) Mitsubishi Electric Corporation
30BE3B (base 16) Mitsubishi Electric Corporation
2-7-3 Marunouchi, Chiyoda-ku
Tokyo 100-8310
JP

3C-A3-7E (hex) HUAWEI TECHNOLOGIES CO.,LTD
3CA37E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park

Dongguan 523808
CN

78-98-E8 (hex) D-Link International
7898E8 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

F8-E4-3B (hex) ASIX Electronics Corporation
F8E43B (base 16) ASIX Electronics Corporation
4F, No. 8, Hsin Ann Road, Hsinchu Science Park
Hsinchu 30078
TW

60-DB-98 (hex) Calix Inc.
60DB98 (base 16) Calix Inc.
2777 Orchard Pkwy
San Jose CA 95131
US

68-72-C3 (hex) Samsung Electronics Co.,Ltd
6872C3 (base 16) Samsung Electronics Co.,Ltd
129,
Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

70-B1-3D (hex) Samsung Electronics Co.,Ltd
70B13D (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

FC-7F-F1 (hex) Aruba, a Hewlett Packard Enterprise Company
FC7FF1 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

F8-5E-A0 (hex) Intel Corporate
F85EA0 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

14-56-3A (hex) Huawei Device Co., Ltd.
14563A (base 16) Huawei Device Co., Ltd.

No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

70-90-B7 (hex) Huawei Device Co., Ltd.
7090B7 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

38-FC-98 (hex) Intel Corporate
38FC98 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3

Kulim Kedah 09000
MY

50-2F-9B (hex) Intel Corporate
502F9B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-18-8C (hex) Mobile Action Technology Inc.
00188C (base 16) Mobile Action Technology Inc.
5F, No. 205-3, Sec. 3, Beishin Rd.
Shindian City, Taipei 231
TW

1C-90-BE (hex) Ericsson AB
1C90BE (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

34-2B-70 (hex) Arris
342B70 (base 16) Arris
2500 Walsh Ave.
Santa Clara CA 95014
US

4C-02-20 (hex) Xiaomi Communications Co Ltd
4C0220 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

D4-1B-81 (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.

D41B81 (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

F4-0B-9F
(hex) CIG SHANGHAI CO LTD
F40B9F (base 16) CIG SHANGHAI CO LTD
5th Floor, Building 8 No 2388 Chenhang Road
SHANGHAI 201114
CN

C0-94-AD (hex) zte corporation
C094AD (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

5C-61-99 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
5C6199 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

E8-DB-84 (hex) Espressif Inc.
E8DB84 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

A0-77-51 (hex) ASMedia Technology Inc.
A07751 (base 16) ASMedia Technology Inc.
6F, No.115, Minquan Rd.,
New Taipei City 23141
TW

30-56-84 (hex) SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
305684 (base
16) SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
A-SIDE A2 BUILDING 2/F ENET NEW INDUSTRIAL PARK,NO.20 DAFU INDUSTRIAL ZONE, AOBEI COMMUNITY, GUANLAN, LONGHUA NEW DISTRICT
SHENZHEN GUANGDONG 518000
CN

00-08-1E (hex) Repeatit AB
00081E (base 16) Repeatit AB
Farogatan 7

SE

74-73-1D (hex) ifm electronic gmbh
74731D (base 16) ifm electronic gmbh
ifm-Straße 1
Tettnang BW 88069
DE

00-1F-94 (hex) Lascar Electronics Ltd
001F94 (base 16) Lascar Electronics Ltd
Module House
Nr Salisbury Wiltshire SP5 2SJ
GB

78-7D-F3 (hex) Sterlite Technologies Limited
787DF3 (base 16) Sterlite Technologies Limited
IFFCO Tower, 3rd Floor, Plot No.3, Sector 29,CH Baktawar Singh Rd, Institutional Area,
Gurugram Haryana 122002
IN

D0-55-09 (hex) Nintendo Co.,Ltd
D05509 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

9C-B2-E8 (hex) HUAWEI
TECHNOLOGIES CO.,LTD
9CB2E8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

08-8F-C3 (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
088FC3 (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO. 25, THE 3RD Street KUNSHAN EXPORT PROCESSING ZONE
KUNSHAN SUZHOU 215300
CN

9C-BF-0D (hex) Framework Computer LLC
9CBF0D (base 16) Framework Computer LLC
1870 Ogden Dr
Burlingame CA 94010
US

D0-21-AC (hex) Yohana
D021AC (base 16) Yohana
3460 Hillview Ave.

Palo Alto CA 94304
US

78-45-B3 (hex) Huawei Device Co., Ltd.
7845B3 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

20-DC-FD (hex) Huawei Device Co., Ltd.
20DCFD (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

FC-65-B3 (hex) Huawei
Device Co., Ltd.
FC65B3 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

10-9D-7A (hex) Huawei Device Co., Ltd.
109D7A (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

DC-63-73 (hex) OBARA KOREA
DC6373 (base 16) OBARA KOREA
97-23, Barangongdan-ro 4-gil
Hwaseong-si Gyeonggi-do 18623
KR

D4-7E-E4 (hex) China Mobile IOT Company Limited
D47EE4 (base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area
Chongqing Chongqing 401336
CN

1C-A8-52 (hex) SENSAIO PTE LTD
1CA852 (base 16) SENSAIO PTE LTD
160 Robinson Road #14-04
SINGAPORE SINGAPORE 068914
SG

40-1C-83 (hex) Intel Corporate
401C83 (base 16) Intel Corporate

Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

44-3B-32 (hex) Intelbras
443B32 (base 16) Intelbras
BR 101, km 210,
S/N°
São José Santa Catarina 88104800
BR

68-3E-26 (hex) Intel Corporate
683E26 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

8C-55-4A (hex) Intel Corporate
8C554A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

54-9F-C6 (hex) Cisco Systems, Inc
549FC6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F0-1D-2D (hex) Cisco Systems, Inc
F01D2D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-55-B1 (hex) Shanghai Baud Data Communication Co.,Ltd.
0055B1 (base 16) Shanghai Baud Data Communication Co.,Ltd.
NO.123 JULI RD
PUDONG ZHANGJIANG HIGH-TECH PARK SHANGHAI 201203
CN

74-90-1F (hex) Ragile Networks Inc.
74901F (base 16) Ragile Networks Inc.
35649 Embassy common Fremont ca 94536
Fremont CA 94536
US

88-89-2F (hex) HUAWEI TECHNOLOGIES CO.,LTD

88892F
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

28-E5-B0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
28E5B0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

38-CA-73 (hex) Shenzhen MiaoMing Intelligent Technology Co.,Ltd
38CA73 (base 16) Shenzhen MiaoMing Intelligent Technology Co.,Ltd
Chudong science and technology park, 111 shaxin road, tangxia town,
dongguan city guangdong province 523710
CN

6C-0D-C4 (hex) Beijing Xiaomi Electronics Co., Ltd.
6C0DC4 (base 16) Beijing Xiaomi Electronics Co., Ltd.
Building C, QingHe ShunShiJiaYe Technology Park, #66 ZhuFang Rd, HaiDian District
Beijing Beijing 10085
CN

C4-40-F6 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
C440F6 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG
GUAN GUANG DONG 523860
CN

84-EA-97 (hex) Shenzhen iComm Semiconductor CO.,LTD
84EA97 (base 16) Shenzhen iComm Semiconductor CO.,LTD
Room 601,Block B ,Digital Building,Garden City
Shenzhen No.1079 Nanhai Road,Nanshan District 518067
CN

A4-7D-9F (hex) Shenzhen iComm Semiconductor CO.,LTD
A47D9F (base 16) Shenzhen iComm Semiconductor CO.,LTD
Room 601,Block B ,Digital Building,Garden City
Shenzhen No.1079 Nanhai Road,Nanshan District 518067
CN

E0-1C-FC (hex) D-Link International
E01CFC (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

20-4E-F6 (hex) AzureWave Technology Inc.
204EF6 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

FC-44-9F (hex) zte corporation
FC449F (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong
518057
CN

98-60-CA (hex) Apple, Inc.
9860CA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

44-90-BB (hex) Apple, Inc.
4490BB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

34-FD-6A (hex) Apple, Inc.
34FD6A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

44-35-83 (hex) Apple, Inc.
443583 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

0C-8B-7D (hex) Vizio, Inc
0C8B7D (base 16) Vizio, Inc
39 Tesla
Irvine CA 92618
US

00-23-E9 (hex) F5 Networks, Inc.
0023E9 (base 16) F5 Networks, Inc.
401 Elliott Ave. W.
Seattle WA 98119

US

3C-7C-3F (hex) ASUSTek COMPUTER INC.
3C7C3F (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

24-47-0E (hex) PentronicAB
24470E (base 16) PentronicAB
Bergsliden 1
GUNNEBO 59093
SE

8C-D6-7F
(hex) EM Microelectronic
8CD67F (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

34-91-6F (hex) UserGate Ltd.
34916F (base 16) UserGate Ltd.
Nikolaeva str., 11, 602
Novosibirsk 630090
RU

14-2C-78 (hex) GooWi Wireless Technology Co., Limited
142C78 (base 16) GooWi Wireless Technology Co., Limited
RM402 Building212, Tairan Technology Park, Futian District
Shenzhen Guangdong 518000
CN

98-FC-84 (hex) IEEE Registration Authority
98FC84 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

EC-4D-3E (hex) Beijing Xiaomi Mobile Software Co., Ltd
EC4D3E (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

EC-3E-B3 (hex) Zyxel Communications Corporation
EC3EB3 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II,

Science Park
Hsichu Taiwan 300
TW

D8-A4-91 (hex) Huawei Device Co., Ltd.
D8A491 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

68-13-24 (hex) Huawei Device Co., Ltd.
681324 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

A8-C0-92 (hex) Huawei Device Co., Ltd.
A8C092 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

5C-91-FD (hex) Jaewoncnc
5C91FD (base 16) Jaewoncnc
A-501~507, H-Businesspark, 25 Beobwon-ro11gil, Songpa-gu, Seoul, Korea
Seoul 05836
KR

F8-2E-3F (hex) HUAWEI TECHNOLOGIES CO.,LTD
F82E3F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

90-A5-AF (hex) HUAWEI TECHNOLOGIES CO.,LTD
90A5AF (base 16) HUAWEI TECHNOLOGIES
CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-76-B0 (hex) Cisco Systems, Inc
0476B0 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

40-F0-78 (hex) Cisco Systems, Inc

40F078 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

78-D7-1A (hex) Ciena Corporation
78D71A (base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

24-B1-05 (hex) Prama Hikvision India Private Limited
24B105 (base 16) Prama Hikvision India Private Limited
Prama Hikvision India Pvt Ltd, Akurli Cross Road No 1, Kandivali East
Mumbai Maharashtra 400101
IN

70-9C-D1 (hex) Intel Corporate
709CD1 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

4C-AE-EC (hex) Guangzhou limee technology co.,LTD
4CAEEC (base 16) Guangzhou limee technology co.,LTD
No.2, Yichuang
Street, Zhongxin Guangzhou Knowledge City, Huangpu District, Guangzhou
Guangzhou Guangdong 510555
CN

80-60-B7 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
8060B7 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

DC-72-23 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
DC7223 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

90-AA-C3 (hex) Hitron Technologies. Inc
90AAC3 (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

44-91-7C (hex) HMD Global Oy
44917C (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo Paimio 02600
FI

24-5F-9F (hex) Huawei Device Co., Ltd.
245F9F (base 16) Huawei
Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

CC-B0-A8 (hex) Huawei Device Co., Ltd.
CCB0A8 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

50-28-73 (hex) Huawei Device Co., Ltd.
502873 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

34-20-E3 (hex) Ruckus Wireless
3420E3 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

78-71-9C (hex) ARRIS Group, Inc.
78719C (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

20-F4-4F (hex) Nokia
20F44F (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

34-55-94 (hex) FUJIAN STAR-NET COMMUNICATION CO.,LTD
345594 (base 16) FUJIAN STAR-NET COMMUNICATION CO.,LTD
19-22# Building, Star-net Science Plaza, Juyuanzhou,
FUZHOU

FUJIAN 350002
CN

4C-93-A6 (hex) IEEE Registration Authority
4C93A6 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

CC-47-BD (hex) Rhombus Systems
CC47BD (base 16) Rhombus Systems
770 L St, Suite 1480
Sacramento CA 95814
US

40-AA-56 (hex) China Dragon Technology Limited
40AA56 (base 16) China Dragon Technology Limited
B4 Bldg.Haoshan 1st Industry Park,
Shenzhen Guangdong 518104
CN

68-54-5A (hex) Intel Corporate
68545A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

4C-B9-9B (hex) WEIFANG GOERTEK ELECTRONICS CO.,LTD
4CB99B (base 16) WEIFANG GOERTEK ELECTRONICS CO.,LTD
Gaoxin 2 Road, Free Trade Zone,Weifang,Shandong,261205,P.R.China
Weifang Shandong 261205
CN

BC-7E-8B (hex) Samsung Electronics Co.,Ltd
BC7E8B (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

54-77-8A
(hex) Hewlett Packard Enterprise
54778A (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

9C-6B-37 (hex) Renesas Electronics (Penang) Sdn. Bhd.
9C6B37 (base 16) Renesas Electronics (Penang) Sdn. Bhd.

Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

A8-37-59 (hex) Huawei Device Co., Ltd.
A83759 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

50-F7-ED (hex) Huawei Device Co., Ltd.
50F7ED (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

00-1E-31 (hex) infomark
001E31 (base 16) infomark
5F.,Geown Bldg.,1360-53
Seoul Seocho-dong,Seocho-gu 137-863
KR

3C-E3-E7 (hex) China Mobile Group Device Co.,Ltd.
3CE3E7 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing
100053
CN

54-88-DE (hex) Cisco Systems, Inc
5488DE (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

24-FD-0D (hex) Intelbras
24FD0D (base 16) Intelbras
BR 101, KM 210
São Jose Santa Catarina 88104-800
BR

0C-31-DC (hex) HUAWEI TECHNOLOGIES CO.,LTD
0C31DC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

40-DD-D1 (hex) Beautiful Card Corporation

40DDD1 (base 16) Beautiful Card Corporation
Wenming 1st St.,
Taoyuan 33383
TW

C0-E7-BF (hex) Sichuan AI-Link Technology Co., Ltd.
C0E7BF (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou, Industrial Park
Mianyang Sichuan 622650
CN

64-33-DB (hex) Texas Instruments
6433DB (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

A4-06-E9 (hex) Texas Instruments
A406E9 (base 16) Texas Instruments
12500
TI Blvd
Dallas TX 75243
US

B0-B1-13 (hex) Texas Instruments
B0B113 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

0C-C8-44 (hex) Cambridge Mobile Telematics, Inc.
0CC844 (base 16) Cambridge Mobile Telematics, Inc.
One Broadway, 14th Floor
Cambridge MA 02142
US

E0-B2-60 (hex) TENO NETWORK TECHNOLOGIES COMPANY LIMITED
E0B260 (base 16) TENO NETWORK TECHNOLOGIES COMPANY LIMITED
RM 1302, 13/F CHEONG K BLDG 84-86 DES VOEUX RD CENTRAL HONG KONG
Hong Kong 999077
HK

34-6D-9C (hex) Carrier Corporation
346D9C (base 16) Carrier Corporation
6304 Thompson Rd
East Syracuse NY 13057
US

7C-F9-A0 (hex) Fiberhome Telecommunication Technologies Co.,LTD
7CF9A0 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

6C-A4-D1 (hex) Fiberhome Telecommunication Technologies Co.,LTD
6CA4D1 (base 16) Fiberhome Telecommunication
Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

A4-46-B4 (hex) Huawei Device Co., Ltd.
A446B4 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

DC-D4-44 (hex) Huawei Device Co., Ltd.
DCD444 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

D4-F7-56 (hex) zte corporation
D4F756 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

48-23-35 (hex) Dialog Semiconductor Hellas SA
482335 (base 16) Dialog Semiconductor Hellas SA
Achileos 8 & Katsoni Str
Kalithea, Athens 17674
GR

E8-DA-20 (hex) Nintendo Co.,Ltd
E8DA20 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

70-82-8E (hex) OleumTech Corporation
70828E (base 16) OleumTech
Corporation
23 Hubble
Irvine CA 92618

US

8C-85-C1 (hex) Aruba, a Hewlett Packard Enterprise Company
8C85C1 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

20-A1-71 (hex) Amazon Technologies Inc.
20A171 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

E0-69-3A (hex) Innophase Inc.
E0693A (base 16) Innophase Inc.
6815 Flanders Drive Suite 150
San Diego CA 92121
US

00-02-AC (hex) 3PAR data
0002AC (base 16) 3PAR data
4209 Technology Drive
Fremont CA 94538
US

78-2B-64 (hex) Bose Corporation
782B64 (base 16) Bose Corporation
The Mountain
Framingham MA 01701-9168
US

54-AB-3A (hex) Quanta Computer Inc.
54AB3A (base 16) Quanta Computer Inc.
No.211, Wen Hwa 2nd Rd., Kuei Shan Hsiang, Tao Yuan Shien, Taiwan, R. O. C.
Taoyuan Taiwan 33377
TW

E8-9A-8F (hex) Quanta Computer Inc.
E89A8F
(base 16) Quanta Computer Inc.
211, Wen Hwa 2nd Rd.,Kuei Shan, Tao Yuan
TAIPEI 33377
TW

EC-6C-9A (hex) Arcadyan Corporation
EC6C9A (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.

Hsinchu City Hsinchu 30071
TW

10-BC-97 (hex) vivo Mobile Communication Co., Ltd.
10BC97 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

44-01-BB (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
4401BB (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268? Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

C8-02-10 (hex) LG Innotek
C80210 (base 16) LG Innotek
Jangduk-dong 978-1
Gwang-ju Gwangsan-gu 506-731
KR

00-1E-B2 (hex) LG Innotek
001EB2 (base 16) LG Innotek
Hanyang Univ. 1271, Sa-dong, Sangrok-gu
Ansan-si Gyeonggi-do 426-791
KR

3C-53-D7 (hex) CEDES AG
3C53D7 (base 16) CEDES
AG
Kantonsstrasse 14
Landquart 7302
CH

44-68-0C (hex) Wacom Co.,Ltd.
44680C (base 16) Wacom Co.,Ltd.
Sumitomo Fudosan Shinjuku Grand Tower 31F,8-17-1
Nishi-shinjuku,Shinjuku-ku Tokyo 160-6131
JP

98-0E-24 (hex) Phytium Technology Co.,Ltd.
980E24 (base 16) Phytium Technology Co.,Ltd.
Building5,XinAn Business Square,Haiyuan Middle Road Binhai New District,
Tianjin 300450
CN

A8-30-BC (hex) Samsung Electronics Co.,Ltd
A830BC (base 16) Samsung Electronics Co.,Ltd

#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

78-46-D4 (hex) Samsung Electronics Co.,Ltd
7846D4 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

1C-98-C1 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
1C98C1 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi
530007
CN

A0-9B-17 (hex) Taicang T&W Electronics
A09B17 (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

E0-6C-A6 (hex) Creotech Instruments S.A.
E06CA6 (base 16) Creotech Instruments S.A.
ul. Gen. L. Okulickiego 7/9
Piaseczno Mazovia 05-500
PL

A0-D8-3D (hex) Fiberhome Telecommunication Technologies Co.,LTD
A0D83D (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

58-F2-FC (hex) Huawei Device Co., Ltd.
58F2FC (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

50-70-43 (hex) SKY UK LIMITED
507043 (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

E8-13-6E (hex) HUAWEI TECHNOLOGIES CO.,LTD

E8136E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

4C-AE-13
(hex) HUAWEI TECHNOLOGIES CO.,LTD
4CAE13 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

4C-2E-FE (hex) Shenzhen Comnect Technology Co.,LTD
4C2EFE (base 16) Shenzhen Comnect Technology Co.,LTD
G Zone, 3/F, Building 1, Baisha High-Tech Park, No. 3011, Shahe Road West, XiLi Street, Nanshan District
Shenzhen 518055
CN

C0-86-B3 (hex) Shenzhen Voxtech Co., Ltd.
C086B3 (base 16) Shenzhen Voxtech Co., Ltd.
Floors 1-4,Factory Building 26,Shancheng Industrial Park,Shiyan Street,Bao'an District,Shenzhen, Guangdong,China
Shenzhen 518000
CN

44-AD-B1 (hex) Sagemcom Broadband SAS
44ADB1 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

64-3A-EA (hex) Cisco Systems, Inc
643AEA (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

D0-14-11
(hex) IEEE Registration Authority
D01411 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

E4-26-8B (hex) Huawei Device Co., Ltd.
E4268B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808

CN

C0-E3-A0 (hex) Renesas Electronics (Penang) Sdn. Bhd.
C0E3A0 (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

8C-E4-68 (hex) Guangzhou Sageran Technology Co., Ltd.
8CE468 (base 16) Guangzhou Sageran Technology Co., Ltd.
Room 1902, Ruian Guangzhou Center, 374 Beijing Road, Yuexiu District
Guangzhou Guangdong 510030
CN

28-48-E7 (hex) Huawei Device Co., Ltd.
2848E7 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

2C-DB-07 (hex) Intel Corporate
2CDB07 (base 16) Intel Corporate
Lot 8, Jalan
Hi-Tech 2/3
Kulim Kedah 09000
MY

98-8D-46 (hex) Intel Corporate
988D46 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

68-88-A1 (hex) Universal Electronics, Inc.
6888A1 (base 16) Universal Electronics, Inc.
201 E. Sandpointe Ave
Santa Ana CA 92707
US

00-63-DE (hex) CLOUDWALK TECHNOLOGY CO.,LTD
0063DE (base 16) CLOUDWALK TECHNOLOGY CO.,LTD
Five Floors of Block 106, West Jinkai Avenue, Yubei District
Chongqing Chongqing 401120
CN

60-A4-23 (hex) Silicon Laboratories
60A423 (base 16) Silicon Laboratories
7000 W. William Cannon Dr.

Austin TX 78735
US

E4-3E-C6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E43EC6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

38-88-1E (hex) HUAWEI TECHNOLOGIES CO.,LTD
38881E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room
R6,Songshan Lake Technology Park
Dongguan 523808
CN

80-5F-C5 (hex) Apple, Inc.
805FC5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

3C-4D-BE (hex) Apple, Inc.
3C4DBE (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

48-26-2C (hex) Apple, Inc.
48262C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

14-7D-DA (hex) Apple, Inc.
147DDA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C4-91-0C (hex) Apple, Inc.
C4910C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-16-93 (hex) PowerLink Technology Inc.
001693 (base 16) PowerLink Technology Inc.

N0. 18, Alley 1, Lane 151, Sec. 1, Jhongsing Rd., Wugu Township
Taipei Hsien 248
TW

AC-1F-09 (hex) shenzhen RAKwireless technology Co.,Ltd
AC1F09 (base 16) shenzhen RAKwireless technology Co.,Ltd
Room 506, Bldg B, New Compark, Pingshan
First Road, Taoyuan Street,Nanshan District
shenzhen guangdong 518057
CN

F8-51-28 (hex) SimpliSafe
F85128 (base 16) SimpliSafe
294 Washington St
Boston MA 02108
US

24-00-FA (hex) China Mobile (Hangzhou) Information Technology Co., Ltd
2400FA (base 16) China Mobile (Hangzhou) Information Technology Co., Ltd
No. 1600 Yuhangtang Road, Wuchang Street, Yuhang District
Hangzhou Zhejiang 311100
CN

50-E0-39 (hex) Zyxel Communications Corporation
50E039 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

B8-57-76 (hex) lignex1
B85776 (base 16) lignex1
354-25, Sanhodae-ro
Gumi-si Gyeongsangbuk-do, Korea 39262
KR

AC-23-34 (hex) Infinix mobility limited
AC2334 (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

00-2B-67
(hex) LCFC(HeFei) Electronics Technology co., ltd
002B67 (base 16) LCFC(HeFei) Electronics Technology co., ltd
YunGu Road 3188-1
Hefei Anhui 230000
CN

F8-BC-0E (hex) eero inc.
F8BC0E (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

E0-19-95 (hex) Nutanix
E01995 (base 16) Nutanix
1740 Technology Drive Ste #150
San Jose CA 95110
US

FC-BC-0E (hex) Zhejiang Cainiao Supply Chain Management Co., Ltd
FCBC0E (base 16) Zhejiang Cainiao Supply Chain Management Co., Ltd
Block B1, XIXI center, No.588 West Wenyi Road, Xihu District
Hangzhou Zhejiang 310000
CN

10-F9-20 (hex) Cisco Systems, Inc
10F920 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

90-77-EE (hex) Cisco Systems, Inc
9077EE (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

3C-13-CC (hex) Cisco Systems, Inc
3C13CC (base 16) Cisco Systems,
Inc
80 West Tasman Drive
San Jose CA 94568
US

BC-13-A8 (hex) Shenzhen YOUHUA Technology Co., Ltd
BC13A8 (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

6C-99-61 (hex) Sagemcom Broadband SAS
6C9961 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848

FR

20-69-80 (hex) Apple, Inc.
206980 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-DC-40 (hex) Apple, Inc.
D8DC40 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

94-E3-EE (hex) zte corporation
94E3EE (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

B0-5C-DA (hex) HP Inc.
B05CDA (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

B0-1B-7C
(hex) Ontrol A.S.
B01B7C (base 16) Ontrol A.S.
Turcan Cad No:19 Y.Dudullu
Umraniye Istanbul 34775
TR

00-1C-70 (hex) NOVACOMM LTDA
001C70 (base 16) NOVACOMM LTDA
RUA BEIJUI, 70
São Paulo 04689-000
BR

00-0F-A4 (hex) Sprecher Automation GmbH
000FA4 (base 16) Sprecher Automation GmbH
Franckstrasse 51
Linz Oberösterreich 4018
AT

00-24-A2 (hex) Hong Kong Middleware Technology Limited
0024A2 (base 16) Hong Kong Middleware Technology Limited
Room 1315 ,Leighton Centre,77 Leighton Road

Causeway Bay 852
HK

18-DF-C1 (hex) Aetheros
18DFC1 (base 16) Aetheros
909 Montgomery Street, Suite 104
San Francisco 94133
US

84-A3-B5 (hex) Propulsion systems
84A3B5 (base 16) Propulsion systems
Dooren 72
Merchtem Vlaams brabant 1785
BE

9C-ED-FA (hex) EVUlution AG
9CEDFA (base 16) EVUlution AG
Via da Clalt 12
Poschiavo GR 7742
CH

EC-63-ED (hex) Hyundai
Autoever Corp.
EC63ED (base 16) Hyundai Autoever Corp.
38, Teheran-ro 114-gil
Gangnam-gu, Seoul 06176
KR

1C-13-38 (hex) Kimball Electronics Group, LLC
1C1338 (base 16) Kimball Electronics Group, LLC
1205 Kimball Blvd
Jasper IN 47546
US

E4-41-22 (hex) OnePlus Technology (Shenzhen) Co., Ltd
E44122 (base 16) OnePlus Technology (Shenzhen) Co., Ltd
18C02, 18C03, 18C04 ,18C05,TAIRAN BUILDING,
Shenzhen Guangdong 518000
CN

9C-19-C2 (hex) Dongguan Liesheng Electronic Co., Ltd.
9C19C2 (base 16) Dongguan Liesheng Electronic Co., Ltd.
F5, Building B, North Block, Gaosheng Tech Park, No. 84 Zhongli Road, Nancheng District, Dongguan Ci
dongguan guangdong 523000
CN

74-CB-F3 (hex) Lava international limited
74CBF3 (base 16) Lava international limited

A-154D, Sector-63
Noida Uttar Pradesh 201301
IN

2C-D0-66 (hex) Xiaomi Communications Co Ltd
2CD066 (base 16) Xiaomi Communications
Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

90-16-BA (hex) HUAWEI TECHNOLOGIES CO.,LTD
9016BA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

DC-BD-7A (hex) Guangzhou Shiyuan Electronic Technology Company Limited
DCBD7A (base 16) Guangzhou Shiyuan Electronic Technology Company Limited
No.6, 4th Yunpu Road, Yunpu industry District
Guangzhou Guangdong 510530
CN

34-2E-B7 (hex) Intel Corporate
342EB7 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

BC-26-A1 (hex) FACTORY FIVE Corporation
BC26A1 (base 16) FACTORY FIVE Corporation
3-391-1, Kamikitadai,
Higashiyamato Tokyo 207-0023
JP

60-AA-EF (hex) Huawei Device Co., Ltd.
60AAEF (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan
Guangdong 523808
CN

D0-F3-F5 (hex) Huawei Device Co., Ltd.
D0F3F5 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

24-79-EF (hex) Greenpacket Berhad, Taiwan
2479EF (base 16) Greenpacket Berhad, Taiwan
B-23A-3, The Ascent Paradigm, No. 1, Jalan SS7/26A, Kelana Jaya, 47301 Petaling Jaya
Petaling Jaya Selangor 47301
MY

D4-46-49 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D44649 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-00-B0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
9400B0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

24-68-B0 (hex) Samsung Electronics Co.,Ltd
2468B0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

30-FC-EB (hex) LG Electronics
(Mobile Communications)
30FCEB (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

B4-EF-1C (hex) 360 AI Technology Co.Ltd
B4EF1C (base 16) 360 AI Technology Co.Ltd
MTK Building B?No.6 Jiuxianqiao Road, Chaoyang District, Beijing, P.R.C.
Beijing Beijing 100015
CN

B8-F0-09 (hex) Espressif Inc.
B8F009 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

E8-B4-70 (hex) IEEE Registration Authority
E8B470 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

FC-71-FA (hex) Trane Technologies
FC71FA (base 16) Trane Technologies
6200 Troup Hwy.
Tyler TX 75707
US

00-02-D8 (hex) BRECIS Communications Corporation
0002D8 (base 16) BRECIS Communications Corporation
2025 Gateway Place, Suite 132
San Jose CA 95110
US

B0-45-02 (hex) Huawei Device
Co., Ltd.
B04502 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

1C-1F-F1 (hex) Huawei Device Co., Ltd.
1C1FF1 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

14-DE-39 (hex) Huawei Device Co., Ltd.
14DE39 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

04-F5-F4 (hex) Proxim Wireless
04F5F4 (base 16) Proxim Wireless
2114 Ringwood Ave
San Jose CA 95131
US

00-80-16 (hex) WANDEL AND GOLTERMANN
008016 (base 16) WANDEL AND GOLTERMANN
1030 SWABIA COURT
NC 27709
US

00-01-CC (hex) Japan Total Design Communication Co., Ltd.
0001CC (base 16) Japan Total Design Communication Co., Ltd.
Enesta Suginamihigashi Build., 3F,

JP

C8-BC-E5 (hex) Sense Things Japan INC.
C8BCE5 (base 16) Sense
Things Japan INC.
3-5-7 Kawaramachi,Chuo-ku
Osaka 541-0048
JP

F4-54-20 (hex) TELLESCOM INDUSTRIA E COMERCIO EM TELECOMUNICACAO
F45420 (base 16) TELLESCOM INDUSTRIA E COMERCIO EM TELECOMUNICACAO
Av. Buriti, 1900 – Setor B – Distrito Industrial
Manaus Amazonas 69075-000
BR

0C-81-7D (hex) EEP Elektro-Elektronik Pranjic GmbH
0C817D (base 16) EEP Elektro-Elektronik Pranjic GmbH
Am Luftschacht 21
Gelsenkirchen 45886
DE

64-DD-E9 (hex) Xiaomi Communications Co Ltd
64DDE9 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

4C-40-88 (hex) SANSHIN ELECTRONICS CO.,LTD.
4C4088 (base 16) SANSHIN ELECTRONICS CO.,LTD.
4-4-12, Shiba, Minato-ku,
Tokyo 108-8404
JP

00-9E-EE (hex) Positivo Tecnologia S.A.
009EEE (base 16) Positivo Tecnologia S.A.
João Bettega, 5200
Curitiba Paraná 81350-000
BR

00-A0-58
(hex) GLORY, LTD.
00A058 (base 16) GLORY, LTD.
1-3-1 SHIMOTENO, HIMEJI
HYOGO PREF. 670
JP

7C-9E-BD (hex) Espressif Inc.
7C9EBD (base 16) Espressif Inc.

Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

1C-02-19 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
1C0219 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

9C-61-1D (hex) Panasonic Corporation of North America
9C611D (base 16) Panasonic Corporation of North America
1200 Ridgeway Ave
Rochester NY 14615
US

F0-D5-BF (hex) Intel Corporate
F0D5BF (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

DC-D2-FC (hex) HUAWEI TECHNOLOGIES CO.,LTD
DCD2FC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
ShenZhen GuangDong 518129
CN

60-F2-62
(hex) Intel Corporate
60F262 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

A4-B1-C1 (hex) Intel Corporate
A4B1C1 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-09-2E (hex) B&Tech System Inc.
00092E (base 16) B&Tech System Inc.
#601, Seo-Jung B/D, 830-24, Youksam-Dong
Seoul
KR

D4-1A-C8 (hex) Nippon Printer Engineering

D41AC8 (base 16) Nippon Printer Engineering
2660 Katsuyama
Fujikawaguchiko-town Yamanashi-Pref. 401-0310
JP

50-61-F6 (hex) Universal Electronics, Inc.
5061F6 (base 16) Universal Electronics, Inc.
201 E. Sandpointe Ave
Santa Ana CA 92707
US

F4-EB-9F (hex) Ellu Company 2019 SL
F4EB9F (base 16) Ellu Company 2019 SL
Paseo de la Castellana 144 14B
Madrid Madrid 28046
ES

E8-98-C2 (hex) ZETLAB Company
E898C2 (base 16) ZETLAB Company
Savelkinsky passage, 4
Zelenograd
Moscow 124482
RU

A4-C5-4E (hex) Huawei Device Co., Ltd.
A4C54E (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

D4-BB-E6 (hex) Huawei Device Co., Ltd.
D4BBE6 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

40-B6-E7 (hex) Huawei Device Co., Ltd.
40B6E7 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

D0-B4-5D (hex) Huawei Device Co., Ltd.
D0B45D (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

88-36-CF (hex) Huawei Device Co., Ltd.
8836CF (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

40-2F-86 (hex) LG Innotek
402F86 (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju
Gwangsan-gu 506-731
KR

3C-80-6B (hex) Hunan Voc Acoustics Technology Co., Ltd.
3C806B (base 16) Hunan Voc Acoustics Technology Co., Ltd.
State Industrialpark, Jiulong Development Zone, Yanling County
Zhuzhou Hunan 412500
CN

60-DE-35 (hex) GITSN, Inc.
60DE35 (base 16) GITSN, Inc.
#601~602, Daerung Post Tower 1, 288, Digital-ro
Guro-gu Seoul 08390
KR

28-31-7E (hex) Hongkong Nano IC Technologies Co., Ltd
28317E (base 16) Hongkong Nano IC Technologies Co., Ltd
Rm. 19C, Lockhart Ctr., 301-307 Lockhart Rd., Wan Chai, Hong Kong.
Hongkong 999077
CN

94-05-BB (hex) IEEE Registration Authority
9405BB (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

40-BC-68 (hex) Wuhan Funshion Online Technologies Co.,Ltd
40BC68 (base 16) Wuhan Funshion Online Technologies Co.,Ltd
5th Floor,Financial Port Building A9,No.77 Optical Valley Avenue, East Lake High-Tech Development Zone, Wuhan
Wuhan CN/Hubei 430000
CN

B8-02-A4 (hex) Aeonsemi, Inc.
B802A4 (base 16) Aeonsemi, Inc.
Cassia Court, Suite 716, 10 Market Street
Camana Bay Grand Cayman KY1-9006

KY

CC-A7-C1 (hex) Google, Inc.
CCA7C1 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

8C-5F-AD (hex) Fiberhome Telecommunication Technologies Co.,LTD
8C5FAD (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

AC-C2-5D (hex) Fiberhome Telecommunication Technologies Co.,LTD
ACC25D (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

8C-0C-87 (hex) Nokia
8C0C87 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

E4-83-26 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E48326 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan
523808
CN

44-76-54 (hex) HUAWEI TECHNOLOGIES CO.,LTD
447654 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

7C-D9-A0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
7CD9A0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F0-33-E5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F033E5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park

Dongguan 523808
CN

6C-6A-77 (hex) Intel Corporate
6C6A77 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

18-69-D8 (hex) Tuya Smart Inc.
1869D8 (base 16) Tuya Smart Inc.
160 Greentree Drive, Suite 101
Dover DE 19904
US

C8-B2-9B (hex) Intel Corporate
C8B29B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

CC-41-8E
(hex) MSA Innovation
CC418E (base 16) MSA Innovation
1100 Cranberry Woods Road
Cranberry Township PA 16066
US

68-49-B2 (hex) CARLO GAVAZZI LTD
6849B2 (base 16) CARLO GAVAZZI LTD
BLB042, Bulebel Industrial Estate
Zejtun ZTN 3000
MT

48-7A-FF (hex) ESSYS
487AFF (base 16) ESSYS
gaetbeol-ro
Incheon 21999
KR

C8-D7-78 (hex) BSH Hausgeraete GmbH
C8D778 (base 16) BSH Hausgeraete GmbH
Im Gewerbepark B10
Regensburg 93059
DE

C0-95-DA (hex) NXP India Private Limited
C095DA (base 16) NXP India Private Limited

1st Floor, Muttha Towers, Don Bosco Marg, Off Airport Road, Yerwada
Pune Maharashtra 411006
IN

B4-22-00 (hex) Brother Industries, LTD.
B42200 (base 16) Brother Industries, LTD.
15-1, Naeshirocho, Mizuho-ku
NAGOYA 4678561
JP

DC-98-40 (hex) Microsoft Corporation
DC9840 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND
98052
US

B8-CE-F6 (hex) Mellanox Technologies, Inc.
B8CEF6 (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

B4-F1-8C (hex) Huawei Device Co., Ltd.
B4F18C (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C4-32-D1 (hex) Farlink Technology Limited
C432D1 (base 16) Farlink Technology Limited
Flat A&B,9/F,Wing Cheong Factory Building,121 King Lam Street,Cheung Sha Wan,Hong Kong.
Hongkong 0000
HK

6C-DD-BC (hex) Samsung Electronics Co.,Ltd
6CDDBC (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

18-6F-2D (hex) Shenzhen Sundray Technologies Company Limited
186F2D (base 16) Shenzhen Sundray Technologies Company Limited
5th Floor, Block A4, Nanshan ipark,NO.1001 Xue Yuan Road, Nanshan District, Shenzhen 518055, P.R. China
Shenzhen Guangdong 518057
CN

F8-4F-AD

(hex) Hui Zhou Gaoshengda Technology Co.,LTD
F84FAD (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

4C-0A-3D (hex) ADNACOM INC.
4C0A3D (base 16) ADNACOM INC.
200-5050 Kingsway
Burnaby BC V5H 4H2
CA

CC-7F-76 (hex) Cisco Systems, Inc
CC7F76 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A8-41-22 (hex) China Mobile (Hangzhou) Information Technology Co.,Ltd.
A84122 (base 16) China Mobile (Hangzhou) Information Technology Co.,Ltd.
No. 1600 Yuhangtang Road, Wuchang Street, Yuhang District
Hangzhou Zhejiang 310000
CN

E8-AB-FA (hex) Shenzhen Reecam Tech.Ltd.
E8ABFA (base 16) Shenzhen Reecam Tech.Ltd.
Room 03D-1 , North Wing Of 3 rd Floor, Block 1 , Vision Shenzhen Business Park
Nanshan District, Shenzhen Guangdong 518052
CN

B0-CC-FE (hex) Huawei Device Co.,
Ltd.
B0CCFE (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

54-0D-F9 (hex) Huawei Device Co., Ltd.
540DF9 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

00-66-19 (hex) Huawei Device Co., Ltd.
006619 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

20-6D-31 (hex) FIREWALLA INC
206D31 (base 16) FIREWALLA INC
75 E. Santa Clara St. STE 600
San Jose CA 95113
US

14-47-2D (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
14472D (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

28-40-1A (hex) C8 MediSensors, Inc.
28401A (base 16) C8 MediSensors, Inc.
727 University Ave
Los Gatos CA 95032
US

E4-5E-37 (hex) Intel Corporate
E45E37
(base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

E4-90-FD (hex) Apple, Inc.
E490FD (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

84-AB-1A (hex) Apple, Inc.
84AB1A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D0-65-44 (hex) Apple, Inc.
D06544 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-0E-9E (hex) Topfield Co., Ltd
000E9E (base 16) Topfield Co., Ltd
4th floor, Deoksan Bldg 260-4, Seohyun-dong
Seongnam Bundang-Ku 463-824

KR

90-E2-FC (hex) IEEE Registration Authority
90E2FC (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

C8-53-E1 (hex) Beijing Bytedance Network Technology Co., Ltd
C853E1 (base 16) Beijing Bytedance Network Technology Co., Ltd
No.1 Building, Zhonghang Square, West Road of the Northern 3rd Circuit, Haidian Distrct
Beijing
Beijing 100098
CN

FC-39-64 (hex) ITEL MOBILE LIMITED
FC3964 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

8C-3B-32 (hex) Microfan B.V.
8C3B32 (base 16) Microfan B.V.
Industriestraat 23
Horst Limburg 5961 PH
NL

D0-D3-E0 (hex) Aruba, a Hewlett Packard Enterprise Company
D0D3E0 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

3C-58-C2 (hex) Intel Corporate
3C58C2 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

CC-F9-E4 (hex) Intel Corporate
CCF9E4 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-0C-1E (hex) Global Cache
000C1E (base 16) Global Cache
160 East California Street

Jacksonville OR 97530
US

F0-08-D1 (hex) Espressif Inc.
F008D1 (base 16) Espressif
Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

14-AE-85 (hex) IEEE Registration Authority
14AE85 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

64-5C-F3 (hex) ParanTek Inc.
645CF3 (base 16) ParanTek Inc.
3F, 40-15 Gilju-Ro, 411 Beon-Gil
Wonmi-Gu, Bucheon City Gyeonggi-Do 14488
KR

90-74-9D (hex) IRay Technology Co., Ltd.
90749D (base 16) IRay Technology Co., Ltd.
11th Guiyang St.,
Yantai Shandong 264000
CN

3C-5C-F1 (hex) eero inc.
3C5CF1 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

CC-D4-2E (hex) Arcadyan Corporation
CCD42E (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

58-94-B2 (hex) BrainCo
5894B2 (base 16) BrainCo
????????????????1107?
??? ??? 518000
CN

B0-95-75 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
B09575

(base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

14-16-9D (hex) Cisco Systems, Inc
14169D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

48-A2-E6 (hex) Resideo
48A2E6 (base 16) Resideo
2 Corporate Center Dr.
Melville NY 11747
US

B4-B0-55 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B4B055 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-8C-16 (hex) HUAWEI TECHNOLOGIES CO.,LTD
048C16 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

98-DD-5B (hex) TAKUMI JAPAN LTD
98DD5B (base 16) TAKUMI JAPAN LTD
3-9-3 Uchiyama building 7F Nishishinbashi
Minato-ku Tokyo Tokyo 1050003
JP

E0-BB-9E (hex) Seiko
Epson Corporation
E0BB9E (base 16) Seiko Epson Corporation
2070 Kotobuki Koaka
Matsumoto-shi Nagano-ken 399-8702
JP

48-D2-4F (hex) Sagemcom Broadband SAS
48D24F (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

E4-AA-EC (hex) Tianjin Hualai Technology Co., Ltd
E4AAEC (base 16) Tianjin Hualai Technology Co., Ltd
Overseas Chinese business building No. 10, Jinping Road, Nankai District, Tianjin
TIANJIN 300190
CN

94-BE-46 (hex) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
94BE46 (base 16) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
No.19, Gaoxin 4th Road, Wuhan East Lake High-tech Zone, Wuhan
Wuhan Hubei 430000
CN

58-27-8C (hex) BUFFALO.INC
58278C (base 16) BUFFALO.INC
AKAMONDORI Bld.,30-20,Ohsu 3-chome,Naka-ku
Nagoya Aichi Pref. 460-8315
JP

14-0A-C5 (hex) Amazon Technologies
Inc.
140AC5 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

48-3F-DA (hex) Espressif Inc.
483FDA (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

2C-DC-D7 (hex) AzureWave Technology Inc.
2CDCD7 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

C8-C7-50 (hex) Motorola Mobility LLC, a Lenovo Company
C8C750 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

6C-5D-3A (hex) Microsoft Corporation
6C5D3A (base 16) Microsoft Corporation
One Microsoft Way
REDMOND 98052
US

AC-F8-CC (hex) ARRIS Group, Inc.
ACF8CC (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

8C-5A-25 (hex) ARRIS Group, Inc.
8C5A25 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA
92121
US

8C-C6-81 (hex) Intel Corporate
8CC681 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

20-83-F8 (hex) Advanced Digital Broadcast SA
2083F8 (base 16) Advanced Digital Broadcast SA
Route de Lausanne 319
Bellevue CH-1293
SZ

9C-54-DA (hex) SkyBell Technologies Inc.
9C54DA (base 16) SkyBell Technologies Inc.
1 Jenner
Irvine CA 92618
US

4C-49-4F (hex) zte corporation
4C494F (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

C4-74-1E (hex) zte corporation
C4741E (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

00-1D-7D (hex) GIGA-BYTE TECHNOLOGY CO.,LTD.
001D7D (base 16) GIGA-BYTE TECHNOLOGY CO.,LTD.
Pin-Jen City, Taoyuan, Taiwan, R.O.C.
Pin-Jen Taoyuan 324

TW

1C-6F-65 (hex) GIGA-BYTE TECHNOLOGY
CO.,LTD.
1C6F65 (base 16) GIGA-BYTE TECHNOLOGY CO.,LTD.
Pin-Jen City, Taoyuan, Taiwan, R.O.C.
Pin-Jen Taoyuan 324
TW

00-24-1D (hex) GIGA-BYTE TECHNOLOGY CO.,LTD.
00241D (base 16) GIGA-BYTE TECHNOLOGY CO.,LTD.
Pin-Jen City, Taoyuan, Taiwan, R.O.C.
Pin-Jen Taoyuan 324
TW

DC-89-83 (hex) Samsung Electronics Co.,Ltd
DC8983 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D4-60-75 (hex) Baidu Online Network Technology (Beijing) Co., Ltd
D46075 (base 16) Baidu Online Network Technology (Beijing) Co., Ltd
Baidu Campus, No.10 Shangdi 10th Street, Haidian District
Beijing 100085
CN

78-C5-F8 (hex) Huawei Device Co., Ltd.
78C5F8 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

5C-78-F8 (hex) Huawei Device Co., Ltd.
5C78F8 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan
Lake Zone
Dongguan Guangdong 523808
CN

B8-27-C5 (hex) Huawei Device Co., Ltd.
B827C5 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

5C-CB-99 (hex) Samsung Electronics Co.,Ltd
5CCB99 (base 16) Samsung Electronics Co.,Ltd

#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

90-B1-44 (hex) Samsung Electronics Co.,Ltd
90B144 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D4-5D-64 (hex) ASUSTek COMPUTER INC.
D45D64 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

38-EC-0D (hex) Apple, Inc.
38EC0D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

48-DD-0C (hex) eero inc.
48DD0C (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

94-0C-98 (hex) Apple, Inc.
940C98 (base 16) Apple, Inc.
1
Infinite Loop
Cupertino CA 95014
US

E8-FB-E9 (hex) Apple, Inc.
E8FBE9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

14-2A-14 (hex) ShenZhen Selenview Digital Technology Co.,Ltd
142A14 (base 16) ShenZhen Selenview Digital Technology Co.,Ltd
615,Block A,Huafeng internet Creative Park,107 Gonghe Industrial Road,Baoan District,Shenzhen,China
Shenzhen Guangdong 518102
CN

B8-61-42 (hex) Beijing Tricolor Technology Co., Ltd

B86142 (base 16) Beijing Tricolor Technology Co., Ltd
Room 808, Building 1, Yard 39, Linfeng 2nd Road, Haidian
Beijing 102206
CN

38-4B-5B (hex) ZTRON TECHNOLOGY LIMITED
384B5B (base 16) ZTRON TECHNOLOGY LIMITED
12/F,JunZi Plaza, Qiaoxiang Road, Futian District
Shenzhen Guangdong 518000
CN

E4-7C-65 (hex) Sunstar Communication Technology Co., Ltd
E47C65 (base 16) Sunstar Communication Technology Co., Ltd
4F,Building D1, Mould Industrial Park, No.199
of Xiqu Ave,West High-tech Zone
Chengdu Sichuan 611731
CN

34-E3-DA (hex) Hoval Aktiengesellschaft
34E3DA (base 16) Hoval Aktiengesellschaft
Austrasse 70
Vaduz 9490
LI

D8-7E-76 (hex) ITEL MOBILE LIMITED
D87E76 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

A4-30-7A (hex) Samsung Electronics Co.,Ltd
A4307A (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

00-A0-B3 (hex) ZYKRONIX
00A0B3 (base 16) ZYKRONIX
7248 SOUTH TUCSON WAY
ENGLEWOOD CO 80112
US

20-0A-0D (hex) IEEE Registration Authority
200A0D (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

2C-E3-10 (hex) Stratacache
2CE310 (base 16) Stratacache
40 N Main St, Suite 2600
Dayton OH 45423
US

E4-F3-27 (hex) ATOL LLC
E4F327
(base 16) ATOL LLC
Bolshaya Novodmitrovskaya str., 14, build 4
Moscow 127015
RU

68-19-AC (hex) Guangzhou Xianyou Intelligent Technogoly CO., LTD
6819AC (base 16) Guangzhou Xianyou Intelligent Technogoly CO., LTD
No.32 Xixiu Road, Xiuquan Street,Huadu District
Guangzhou Guangdong 510800
CN

E8-2E-0C (hex) NETINT Technologies Inc.
E82E0C (base 16) NETINT Technologies Inc.
#306, 3500 Gilmore Way
Burnaby BC V5G0B8
CA

18-92-A4 (hex) Ciena Corporation
1892A4 (base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

B0-73-5D (hex) Huawei Device Co., Ltd.
B0735D (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

F0-B4-D2 (hex) D-Link International
F0B4D2 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

5C-3A-45 (hex) CHONGQING FUGUI ELECTRONICS
CO.,LTD.
5C3A45 (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332

CN

14-11-5D (hex) Skyworth Digital Technology(Shenzhen) Co.,Ltd
14115D (base 16) Skyworth Digital Technology(Shenzhen) Co.,Ltd
7F,Block A,Skyworth Building,
Shenzhen Guangdong 518057
CN

FC-8E-5B (hex) China Mobile Iot Limited company
FC8E5B (base 16) China Mobile Iot Limited company
No. 8 Yangliu North Road, Yubei District, Chongqing, China
Chong Qing Chong Qing 401120
CN

40-4C-77 (hex) ARRIS Group, Inc.
404C77 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

A8-97-CD (hex) ARRIS Group, Inc.
A897CD (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

A0-3C-31 (hex) Shenzhen Belon Technology CO.,LTD
A03C31 (base 16) Shenzhen Belon Technology CO.,LTD
Tsinghua Information
Shenzhen
Guangdong 518052
CN

10-08-2C (hex) Texas Instruments
10082C (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

90-13-DA (hex) Athom B.V.
9013DA (base 16) Athom B.V.
Rigtersbleek-Zandvoort 10
Enschede 7521BE
NL

D4-9E-3B (hex) Guangzhou Shiyuan Electronic Technology Company Limited
D49E3B (base 16) Guangzhou Shiyuan Electronic Technology Company Limited
No.6, 4th Yunpu Road, Yunpu industry District

Guangzhou Guangdong 510530
CN

DC-4B-DD (hex) Shenzhen SuperElectron Technology Co.,Ltd.
DC4BDD (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

C0-B5-CD (hex) Huawei Device Co., Ltd.
C0B5CD (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

4C-50-77 (hex) Huawei
Device Co., Ltd.
4C5077 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

50-2D-BB (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
502DBB (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

7C-A1-AE (hex) Apple, Inc.
7CA1AE (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

58-EA-FC (hex) ELL-IoT Inc
58EAFC (base 16) ELL-IoT Inc
32 Journey
Aliso Viejo CA 92656
US

5C-3A-3D (hex) zte corporation
5C3A3D (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

30-FD-65 (hex) HUAWEI TECHNOLOGIES CO.,LTD
30FD65 (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

3C-22-FB (hex) Apple, Inc.
3C22FB
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

80-E4-55 (hex) New H3C Technologies Co., Ltd
80E455 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

00-90-9E (hex) Critical IO, LLC
00909E (base 16) Critical IO, LLC
485 E. 17th Street
Costa Mesa CA 92627
US

38-E8-EE (hex) Nanjing Youkuo Electric Technology Co., Ltd
38E8EE (base 16) Nanjing Youkuo Electric Technology Co., Ltd
100 Jiangjun Road,Jiangning
Nanjing Jiangsu 211100
CN

90-B8-E0 (hex) SHENZHEN YANRAY TECHNOLOGY CO.,LTD
90B8E0 (base 16) SHENZHEN YANRAY TECHNOLOGY CO.,LTD
5A, 4th Building, Huafengzhenbao Industrial Park, Beihuan Road, Shiyan Street, Baoan District,
Shenzhen Guangdong 518000
CN

2C-4C-C6 (hex) Murata Manufacturing Co., Ltd.
2C4CC6 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto
617-8555
JP

68-02-B8 (hex) Compal Broadband Networks, Inc.
6802B8 (base 16) Compal Broadband Networks, Inc.
13F., No.1, Taiyuan 1st St.
Zhubei City Hsinchu County 30265
TW

34-63-D4 (hex) BIONIX SUPPLYCHAIN TECHNOLOGIES SLU
3463D4 (base 16) BIONIX SUPPLYCHAIN TECHNOLOGIES SLU
Poligono Pocomaco Avenida Primera Parcela B3 Nave F
La Coruña La Coruña 15190
ES

08-F7-E9 (hex) HRCP Research and Development Partnership
08F7E9 (base 16) HRCP Research and Development Partnership
1-24-2 Taito, Taito-ku
Tokyo 1100016
JP

44-03-77 (hex) IEEE Registration Authority
440377 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

08-12-A5 (hex) Amazon Technologies Inc.
0812A5 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

9C-F5-31 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
9CF531 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

C8-09-A8 (hex) Intel Corporate
C809A8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

74-8B-34 (hex) Shanghai Smart System Technology Co., Ltd
748B34 (base 16) Shanghai Smart System Technology Co., Ltd
Room 902C-1, 560 Shengxia Road, Zhangjiang Hi-Tech Park, Shanghai 201203, China
Shanghai Shanghai 201210
CN

4C-BC-72 (hex) Primex Wireless
4CBC72 (base 16) Primex Wireless
965 Wells Street
Lake Geneva WI 53147
US

DC-DC-E2 (hex) Samsung Electronics Co.,Ltd
DCDCE2 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A0-AC-69 (hex) Samsung Electronics Co.,Ltd
A0AC69 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

10-89-FB (hex) Samsung Electronics Co.,Ltd
1089FB (base 16) Samsung Electronics Co.,Ltd
#94-1,
Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D4-77-2B (hex) Nanjing Ztlink Network Technology Co.,Ltd
D4772B (base 16) Nanjing Ztlink Network Technology Co.,Ltd
No.0 Mozhou East Road , Jiangning Economic & Technological Development Zone, Jiangning District
Nanjing Jiangsu 211111
CN

64-F9-C0 (hex) ANALOG DEVICES
64F9C0 (base 16) ANALOG DEVICES
32990 ALVARADO NILES RD
UNION CITY CA 94587
US

BC-A5-11 (hex) NETGEAR
BCA511 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

F8-C4-F3 (hex) Shanghai Infinity Wireless Technologies Co.,Ltd.
F8C4F3 (base 16) Shanghai Infinity Wireless Technologies Co.,Ltd.
Room 522, Building A, No.1687 Changyang Road, Yangpu District, Shanghai
Shanghai Shanghai 200082
CN

C4-E9-0A (hex) D-Link International
C4E90A (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917

SG

18-D0-C5 (hex) GUANGDONG
OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
18D0C5 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

AC-BD-70 (hex) Huawei Device Co., Ltd.
ACBD70 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

30-E9-8E (hex) HUAWEI TECHNOLOGIES CO.,LTD
30E98E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-44-7D (hex) HUAWEI TECHNOLOGIES CO.,LTD
C4447D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

70-F8-2B (hex) DWnet Technologies(Suzhou) Corporation
70F82B (base 16) DWnet Technologies(Suzhou) Corporation
No.8,Tangzhuang Road, Suzhou Industrial Park, Jiangsu, China
Suzhou 21500
CN

D4-F5-EF (hex) Hewlett Packard Enterprise
D4F5EF
(base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

44-CB-8B (hex) LG Innotek
44CB8B (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

B4-05-5D (hex) Inspur Electronic Information Industry Co.,Ltd.
B4055D (base 16) Inspur Electronic Information Industry Co.,Ltd.

No 224 Shanda Road
Jinan Shandong 250013
CN

EC-1B-BD (hex) Silicon Laboratories
EC1BBD (base 16) Silicon Laboratories
7000 W. William Cannon Dr.
Austin 78735
US

10-DC-B6 (hex) IEEE Registration Authority
10DCB6 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

D8-A3-15 (hex) vivo Mobile Communication Co., Ltd.
D8A315 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

14-A1-BF (hex) ASSA ABLOY Korea Co., Ltd Unilock
14A1BF (base 16) ASSA ABLOY
Korea Co., Ltd Unilock
10f of JEI PLATZ Bldg., 186, Gasandigital 1-ro
Geumcheon-gu Seoul 08502
KR

94-83-C4 (hex) GL Technologies (Hong Kong) Limited
9483C4 (base 16) GL Technologies (Hong Kong) Limited
103B Enterprise Place, 5W Science Park
NT 00000
HK

9C-93-B0 (hex) Megatronix (Beijing) Technology Co., Ltd.
9C93B0 (base 16) Megatronix (Beijing) Technology Co., Ltd.
Floor11,Building C, Rongxin Center Chungyuan Road 34#, chaoyang distric, Beijing, P.R.China
Beijing Beijing 100012
CN

64-AE-F1 (hex) Qingdao Hisense Electronics Co.,Ltd.
64AEF1 (base 16) Qingdao Hisense Electronics Co.,Ltd.
Qianwangang Roard 218
Qingdao Shandong 266510
CN

04-8C-9A (hex) Huawei Device Co., Ltd.

048C9A (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

EC-3C-BB (hex) Huawei Device Co., Ltd.
EC3CBB (base 16) Huawei Device Co., Ltd.
No.2
of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

28-BD-89 (hex) Google, Inc.
28BD89 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

98-48-27 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
984827 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

34-ED-1B (hex) Cisco Systems, Inc
34ED1B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

14-24-75 (hex) 4DReplay, Inc
142475 (base 16) 4DReplay, Inc
1286 Folsom Street
San Francisco CA 94103
US

80-64-7A (hex) Ola Sense Inc
80647A (base 16) Ola Sense Inc
764 Avenue A
Redondo Beach 90277
US

C0-B8-83 (hex) Intel Corporate
C0B883 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

70-44-1C (hex) SHENZHEN
KAIFA TECHNOLOGY CO.,LTD.
70441C (base 16) SHENZHEN KAIFA TECHNOLOGY CO.,LTD.
7006 Caitian Rd., Futian Dist.
Shen Zhen Guang Dong 518035
CN

1C-EA-0B (hex) Edgecore Networks Corporation
1CEA0B (base 16) Edgecore Networks Corporation
1 Creation RD 3.
Hsinchu 30077
TW

24-41-8C (hex) Intel Corporate
24418C (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

44-EF-BF (hex) China Dragon Technology Limited
44EFBF (base 16) China Dragon Technology Limited
B4 Bldg.Haoshan 1st Industry Park,
Shenzhen Guangdong 518104
CN

4C-B4-4A (hex) NANOWAVE Technologies Inc.
4CB44A (base 16) NANOWAVE Technologies Inc.
425 Horner Avenue
Etobicoke Ontario M8W 4W3
CA

F8-D0-27 (hex) Seiko Epson Corporation
F8D027 (base 16) Seiko Epson Corporation
2070 Kotobuki Koaka
Matsumoto-shi Nagano-ken 399-8702
JP

5C-66-6C (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS
CORP.,LTD
5C666C (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

4C-4B-F9 (hex) IEEE Registration Authority
4C4BF9 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554

US

88-D5-A8 (hex) ITEL MOBILE LIMITED
88D5A8 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

B8-1F-5E (hex) Apption Labs Limited
B81F5E (base 16) Apption Labs Limited
7-8 Westbridge Close
Leicester LE3 5LW
GB

D8-12-65 (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
D81265 (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

8C-3A-7E (hex) Universal Electronics, Inc.
8C3A7E (base 16) Universal Electronics, Inc.
201 E. Sandpointe Ave
Santa
Ana CA 92707
US

20-85-93 (hex) IEEE Registration Authority
208593 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

B4-7C-59 (hex) Jiangsu Hengxin Technology Co.,Ltd.
B47C59 (base 16) Jiangsu Hengxin Technology Co.,Ltd.
No.138 Taodu Road,Yixing city,Jiangsu Province,China
Yixing Jiangsu 214200
CN

30-0D-9E (hex) Ruijie Networks Co.,LTD
300D9E (base 16) Ruijie Networks Co.,LTD
20# Building,Star-net Science Plaza,Juyuanzhou, 618 Jinshan Road
Fuzhou Fujian 350002
CN

BC-B0-E7 (hex) HUAWEI TECHNOLOGIES CO.,LTD
BCB0E7 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park

Dongguan 523808
CN

54-34-EF (hex) HUAWEI TECHNOLOGIES CO.,LTD
5434EF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

EC-FA-5C (hex) Beijing Xiaomi Electronics
Co., Ltd.
ECFA5C (base 16) Beijing Xiaomi Electronics Co., Ltd.
Building C, QingHe ShunShiJiaYe Technology Park, #66 ZhuFang Rd, HaiDian District
Beijing Beijing 10085
CN

F8-B4-6A (hex) Hewlett Packard
F8B46A (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

AC-E3-42 (hex) HUAWEI TECHNOLOGIES CO.,LTD
ACE342 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

90-17-C8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
9017C8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E4-92-2A (hex) DBG HOLDINGS LIMITED
E4922A (base 16) DBG HOLDINGS LIMITED
UNIT D, 6/F., UNISON INDUSTRIAL CENTRE, 27-31 AUPUI WAN STREET, FOTAN, N.T.
Hong Kong 999077
HK

48-01-C5 (hex) OnePlus Technology (Shenzhen) Co., Ltd
4801C5 (base 16) OnePlus Technology (Shenzhen)
Co., Ltd
18C02, 18C03, 18C04 ,18C05,TAIRAN BUILDING,
Shenzhen Guangdong 518000
CN

18-BF-1C (hex) Jiangsu Huitong Group Co.,Ltd.

18BF1C (base 16) Jiangsu Huitong Group Co.,Ltd.
No. 24, Block 2, Taohuawu New District
Zhenjiang Jiangsu 212003
CN

20-77-59 (hex) OPTICAL NETWORK VIDEO TECHNOLOGIES (SHENZHEN) CO., LTD.
207759 (base 16) OPTICAL NETWORK VIDEO TECHNOLOGIES (SHENZHEN) CO., LTD.
The 4-6th Floor, No. 59, HuaNing Road, Xinwei Community, Dalang Street, Longhua District
Shenzhen 518000
CN

88-9D-98 (hex) Allied-telesisK.K.
889D98 (base 16) Allied-telesisK.K.
7-21-11 Nishi-Gotannda
Shinagawa-ku Tokyo 141-0031
JP

4C-56-DF (hex) Targus US LLC
4C56DF (base 16) Targus US LLC
1211 North Miller Street
Anaheim CA 92806
US

B4-EE-25 (hex) Shenzhen Belon Technology CO.,LTD
B4EE25 (base 16) Shenzhen Belon Technology CO.,LTD
Tsinghua Information
Shenzhen Guangdong
518052
CN

C8-2B-96 (hex) Espressif Inc.
C82B96 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

98-52-3D (hex) Sunitec Enterprise Co.,Ltd
98523D (base 16) Sunitec Enterprise Co.,Ltd
3F.,No.98-1,Mincyuan Rd.Sindian City
Taipei County 231 231141
CN

DC-F8-B9 (hex) zte corporation
DCF8B9 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

18-90-88 (hex) eero inc.
189088 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

2C-64-1F (hex) Vizio, Inc
2C641F (base 16) Vizio, Inc
39 Tesla
Irvine CA 92618
US

54-E7-D5 (hex) Sun Cupid Technology (HK) LTD
54E7D5 (base 16) Sun Cupid Technology (HK) LTD
Room 1201-3, 12/F., Tower 6
Tsim Sha Tsui
HK

24-15-10 (hex) IEEE Registration Authority
241510 (base 16) IEEE Registration Authority
445
Hoes Lane
Piscataway NJ 08554
US

6C-4D-51 (hex) Shenzhen Ceres Technology Co., Ltd.
6C4D51 (base 16) Shenzhen Ceres Technology Co., Ltd.
#601, Fl6, Bldg F, No.1008 Yangguang Community, Xili, Nanshan
Shenzhen Guangdong 518055
CN

04-81-9B (hex) SKY UK LIMITED
04819B (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

2C-A8-9C (hex) Creatz inc.
2CA89C (base 16) Creatz inc.
16, Deogyeong-daero 1556beon-gil, Yeongtong-gu
Suwon-si, Gyeonggi-do, 16690
KR

4C-DC-0D (hex) Coral Telecom Limited
4CDC0D (base 16) Coral Telecom Limited
E-2, Sector 63
Noida Uttar Pradesh 201301
IN

D0-15-A6 (hex) Aruba, a Hewlett Packard Enterprise Company
D015A6 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

00-01-63 (hex) Cisco Systems, Inc
000163 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose
CA 94568
US

60-70-C0 (hex) Apple, Inc.
6070C0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-C3-71 (hex) Apple, Inc.
F0C371 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

18-55-E3 (hex) Apple, Inc.
1855E3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

60-63-4C (hex) D-Link International
60634C (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

E0-00-84 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E00084 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-00-DE (hex) CETIA
0000DE (base 16) CETIA
150 RUE BERTHELOT

FR

F4-3E-66 (hex) Bee Computing (HK) Limited
F43E66 (base 16) Bee Computing (HK) Limited
Room 1902, 19/F, Lee Garden One 33 Hysan Avenue, Causeway Bay
Hong Kong
100043
HK

DC-39-6F (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
DC396F (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

B4-C4-76 (hex) Wuhan Maritime Communication Research Institute
B4C476 (base 16) Wuhan Maritime Communication Research Institute
No.312 Luoyu road, Hongshan District
Wuhan Hubei 430079
CN

68-34-89 (hex) LEA Professional
683489 (base 16) LEA Professional
635 S. Lafayette Blvd
South Bend IN 46601
US

9C-3A-9A (hex) Shenzhen Sundray Technologies Company Limited
9C3A9A (base 16) Shenzhen Sundray Technologies Company Limited
5th Floor, Block A4, Nanshan ipark,NO.1001 Xue Yuan Road, Nanshan District, Shenzhen 518055, P.R. China
Shenzhen Guangdong 518057
CN

B4-6C-47 (hex) Panasonic Appliances Company
B46C47 (base 16) Panasonic Appliances Company
2-3-1-2 Noji-higashi
Kusatsu City Shiga 525-8555
JP

94-BF-80
(hex) zte corporation
94BF80 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

64-FF-0A (hex) Wistron Neweb Corporation
64FF0A (base 16) Wistron Neweb Corporation

No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

44-42-2F (hex) TESTOP CO.,LTD.
44422F (base 16) TESTOP CO.,LTD.
808RM Hanshin IT Tower ,272, Digital-ro
Guro-gu Seoul 08389
KR

54-9C-27 (hex) Plasma Cloud Limited
549C27 (base 16) Plasma Cloud Limited
5/F, Yat Chau Building, 262 Des Voeux Road Central
Hong Kong NA
HK

54-15-89 (hex) MCS Logic Inc.
541589 (base 16) MCS Logic Inc.
A-1701, Munjeong-dong, SK V1 GL Metro City, 128, Beobwon-ro, Songpa-gu,
seoul seoul 05854
KR

84-57-33 (hex) Microsoft Corporation
845733 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND 98052
US

3C-EC-EF (hex) Super
Micro Computer, Inc.
3CECEF (base 16) Super Micro Computer, Inc.
980 Rock Ave
San Jose CA 95131
US

E4-50-EB (hex) Apple, Inc.
E450EB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

88-64-40 (hex) Apple, Inc.
886440 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C4-E1-A1 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD

C4E1A1 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

AC-C3-58 (hex) Continental Automotive Czech Republic s.r.o.
ACC358 (base 16) Continental Automotive Czech Republic s.r.o.
Prmyslová 1851
Brandýs nad Labem 250 01
CZ

F0-99-19 (hex) Garmin International
F09919 (base 16) Garmin International
1200 E. 151st St
Olathe KS 66062
US

58-F3-9C (hex) Cisco Systems, Inc
58F39C (base 16) Cisco Systems, Inc
170 West Tasman Drive
San
Jose CA 95134
US

00-24-23 (hex) AzureWave Technologies (Shanghai) Inc.
002423 (base 16) AzureWave Technologies (Shanghai) Inc.
NO. 8, LANE 66, CHENGBAO RD.
SHANGHAI 201801
CN

8C-59-3C (hex) IEEE Registration Authority
8C593C (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

00-AD-63 (hex) Dedicated Micros Malta LTD
00AD63 (base 16) Dedicated Micros Malta LTD
Blb017, Qasam Industrijali Bulebel
ZEJTUN ZTN 3000
MT

60-29-D5 (hex) DAVOLINK Inc.
6029D5 (base 16) DAVOLINK Inc.
112, Beolmal-ro
Dongan-gu, Anyang-si Gyeonggi-do 14057
KR

50-97-44 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
509744 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

98-7A-14 (hex) Microsoft Corporation
987A14 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

C8-3D-DC
(hex) Xiaomi Communications Co Ltd
C83DDC (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

B0-B5-E8 (hex) Ruroc LTD
B0B5E8 (base 16) Ruroc LTD
Unit 2, Barnett Way, Barnwood Estate
Gloucester GL4 3RT
GB

E4-15-F6 (hex) Texas Instruments
E415F6 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

80-91-33 (hex) AzureWave Technology Inc.
809133 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

18-19-D6 (hex) Samsung Electronics Co.,Ltd
1819D6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

70-FC-8F (hex) FREEBOX SAS
70FC8F (base 16) FREEBOX SAS
16 rue de la Ville l'Eveque
PARIS IdF 75008
FR

50-1B-32 (hex) Taicang T&W Electronics
501B32 (base 16) Taicang T&W Electronics
89#
Jiang Nan RD
Suzhou Jiangsu 215412
CN

14-AD-CA (hex) China Mobile Iot Limited company
14ADCA (base 16) China Mobile Iot Limited company
No. 8 Yangliu North Road, Yubei District, Chongqing, China
Chong Qing Chong Qing 401120
CN

CC-90-70 (hex) Cisco Systems, Inc
CC9070 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

28-41-C6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
2841C6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-77-E4 (hex) Nokia Solutions and Networks GmbH & Co. KG
0077E4 (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

38-01-18 (hex) ULVAC,Inc.
380118 (base 16) ULVAC,Inc.
2500 Hagizono
Chigasaki Kanagawa 253-8543
JP

F4-1D-6B (hex) HUAWEI TECHNOLOGIES CO.,LTD
F41D6B (base 16) HUAWEI TECHNOLOGIES
CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

7C-EC-9B (hex) Fuzhou Teraway Information Technology Co.,Ltd
7CEC9B (base 16) Fuzhou Teraway Information Technology Co.,Ltd
2F, Building 5#, No. 59, Yangqi Road, Cangshan District

Fuzhou Fujian 350000
CN

C4-8F-C1 (hex) DEEPTRACK S.L.U.
C48FC1 (base 16) DEEPTRACK S.L.U.
Avenida de Barajas 32, Parque E. Omega, Edificio A
Alcobendas 28100
ES

B4-F5-8E (hex) HUAWEI TECHNOLOGIES CO.,LTD
B4F58E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

AC-42-28 (hex) Parta Networks
AC4228 (base 16) Parta Networks
Teknopark Izmir No:38
URLA IZMIR 35433
TR

B0-A6-F5 (hex) Xaptum, Inc.
B0A6F5 (base 16) Xaptum, Inc.
350 W Ontario ST FL 4
Chicago IL 60654
US

AC-F5-E6 (hex) Cisco Systems, Inc
ACF5E6 (base 16) Cisco Systems,
Inc
80 West Tasman Drive
San Jose CA 94568
US

E8-28-C1 (hex) Eltex Enterprise Ltd.
E828C1 (base 16) Eltex Enterprise Ltd.
Okruzhnaya st. 29v
Novosibirsk 630020
RU

78-D3-47 (hex) Ericsson AB
78D347 (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

F8-23-87 (hex) Shenzhen Horn Audio Co.,Ltd.
F82387 (base 16) Shenzhen Horn Audio Co.,Ltd.

NO.6 4th GuiHua road,PingShan,
Shenzhen Guangdong 518118
CN

BC-98-DF (hex) Motorola Mobility LLC, a Lenovo Company
BC98DF (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

A4-A1-79 (hex) Nanjing dianyan electric power automation co. LTD
A4A179 (base 16) Nanjing dianyan electric power automation co. LTD
No. 29, liuzhou north road, pukou district
Nanjing Jiangsu 210031
CN

68-DB-67 (hex) Nantong Coship Electronics Co., Ltd.
68DB67 (base 16) Nantong Coship
Electronics Co., Ltd.
No.188 Xinsheng Road
Nantong 226000
US

BC-9F-E4 (hex) Aruba, a Hewlett Packard Enterprise Company
BC9FE4 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

98-0D-67 (hex) Zyxel Communications Corporation
980D67 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

70-2E-80 (hex) DIEHL Connectivity Solutions
702E80 (base 16) DIEHL Connectivity Solutions
Stephanstraße 49
Nürnberg Bayern 90478
DE

F8-C3-97 (hex) NZXT Corp. Ltd.
F8C397 (base 16) NZXT Corp. Ltd.
13164 E. Temple Ave.
City of Industry California 91746
US

70-DD-A8 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD

70DDA8 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

4C-6F-9C (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS
CORP.,LTD
4C6F9C (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

78-2C-29 (hex) New H3C Technologies Co., Ltd
782C29 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

AC-A4-6E (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
ACA46E (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT
SONGGANG
SHENZHEN GUANGDONG 518105
CN

C8-B4-22 (hex) ASKEY COMPUTER CORP
C8B422 (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

94-EE-9F (hex) HMD Global Oy
94EE9F (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

D4-D2-52 (hex) Intel Corporate
D4D252 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

58-A0-23 (hex) Intel Corporate
58A023 (base 16) Intel Corporate
Lot 8, Jalan
Hi-Tech 2/3
Kulim Kedah 09000
MY

DC-B0-82 (hex) Nokia
DCB082 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

F4-32-3D (hex) Sichuan tianyi kanghe communications co., LTD
F4323D (base 16) Sichuan tianyi kanghe communications co., LTD
No.198, section 1, xueshan avenue, jinyuan town, dayi county, sichuan province
chengdu sichuan 611330
CN

10-93-97 (hex) ARRIS Group, Inc.
109397 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

50-75-F1 (hex) ARRIS Group, Inc.
5075F1 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

E8-C4-17 (hex) Fiberhome Telecommunication Technologies Co.,LTD
E8C417 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

F8-B7-97 (hex) NEC Platforms, Ltd.
F8B797 (base 16) NEC Platforms, Ltd.
2-3 Kandatsukasamachi
Chiyodaku Tokyo 101-8532
JP

B0-AA-D2
(hex) Sichuan tianyi kanghe communications co., LTD
B0AAD2 (base 16) Sichuan tianyi kanghe communications co., LTD
No.198, section 1, xueshan avenue, jinyuan town, dayi county, sichuan province
chengdu sichuan 611330
CN

00-1E-A3 (hex) Nokia Danmark A/S
001EA3 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790

DK

38-F3-2E (hex) Skullcandy
38F32E (base 16) Skullcandy
6301 N. LANDMARK DRIVE
Park City 84098
US

DC-2A-A1 (hex) MedHab LLC
DC2AA1 (base 16) MedHab LLC
3501 North US Highway 67
San Angelo TX 76905
US

E4-F3-E8 (hex) Shenzhen SuperElectron Technology Co.,Ltd.
E4F3E8 (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

CC-A1-2B (hex) TCL King Electrical Appliances (Huizhou) Co., Ltd
CCA12B (base 16) TCL
King Electrical Appliances (Huizhou) Co., Ltd
10F, TCL Multimedia Building, TCL International E City, No.1001 Zhongshanyuan Rd., Nanshan District
Shenzhen Guangdong 518052
CN

AC-00-D0 (hex) zte corporation
AC00D0 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

98-1E-19 (hex) Sagemcom Broadband SAS
981E19 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

84-B8-66 (hex) Beijing XiaoLu technology co. LTD
84B866 (base 16) Beijing XiaoLu technology co. LTD
Room 002, floor 2, building 1, yard 4, BeiTuCheng East Road, ChaoYang district, Beijing
Beijing 100102
CN

14-22-DB (hex) eero inc.
1422DB (base 16) eero inc.
230 9th St.

San Francisco CA 94103
US

18-BC-5A (hex) Zhejiang Tmall Technology Co., Ltd.
18BC5A (base 16) Zhejiang Tmall Technology Co., Ltd.
Ali
Center,No.3331 Keyuan South RD (Shenzhen bay), Nanshan District,
Shenzhen Guangdong 518000
CN

C4-C1-38 (hex) OWLink Technology Inc
C4C138 (base 16) OWLink Technology Inc
760 Roosevelt
Irvine CA 92620
US

C4-65-16 (hex) Hewlett Packard
C46516 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

E4-1E-0A (hex) IEEE Registration Authority
E41E0A (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

AC-37-C9 (hex) RAID Incorporated
AC37C9 (base 16) RAID Incorporated
200 Brickstone Square
Andover MA 01810
US

20-58-69 (hex) Ruckus Wireless
205869 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

CC-37-AB (hex) Edgecore Networks Corporation
CC37AB (base 16) Edgecore Networks Corporation
1 Creation Road 3.
Hsinchu Hsinchu 30077
TW

90-78-41 (hex) Intel Corporate
907841 (base 16) Intel

Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C8-63-14 (hex) IEEE Registration Authority
C86314 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

24-31-54 (hex) HUAWEI TECHNOLOGIES CO.,LTD
243154 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

84-B8-B8 (hex) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
84B8B8 (base 16) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
No.19, Gaoxin 4th Road, Wuhan East Lake High-tech Zone, Wuhan
Wuhan Hubei 430000
CN

D0-41-C9 (hex) Fiberhome Telecommunication Technologies Co.,LTD
D041C9 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

E8-01-8D (hex) Fiberhome Telecommunication Technologies Co.,LTD
E8018D (base 16) Fiberhome Telecommunication Technologies
Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

18-39-9C (hex) Skorpios Technologies
18399C (base 16) Skorpios Technologies
7401 Snaproll St NE
Albuquerque NM 87109
US

94-C2-BD (hex) TECNOBIT
94C2BD (base 16) TECNOBIT
C/ FUDRE, 18
VALDEPEÑAS CIUDAD REAL 13300
ES

48-83-B4 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
4883B4 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

70-1E-68 (hex) Hanna Instruments, Inc.
701E68 (base 16) Hanna Instruments, Inc.
584 Park East Dr.
Woonsocket RI 02895
US

94-16-25 (hex) Apple, Inc.
941625 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

54-3B-30 (hex) duagon AG
543B30 (base 16) duagon AG
Riedstrasse 12
Zürich Dietikon 8953
CH

8C-96-5F (hex) Shandong Zhongan Technology Co., Ltd.
8C965F (base 16) Shandong Zhongan
Technology Co., Ltd.
North of Kejia Road, East District, Jinan High-tech Zone
Jinan Shandong 250100
CN

10-A3-B8 (hex) Iskratel d.o.o.
10A3B8 (base 16) Iskratel d.o.o.
Ljubljanska cesta 24a
Kranj 4000
SI

70-CD-91 (hex) TERACOM TELEMATICA S.A
70CD91 (base 16) TERACOM TELEMATICA S.A
RUA AMERICA,1000
Eldorado do Sul Rio Grande do Sul 92990-000
BR

E8-EC-A3 (hex) Dongguan Liesheng Electronic Co.Ltd
E8ECA3 (base 16) Dongguan Liesheng Electronic Co.Ltd
13th Floor South Building, Gosun Science Park, Hongtu Rd
Dongguan Dongguan 523073
CN

08-A6-BC (hex) Amazon Technologies Inc.
08A6BC (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

2C-58-E8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
2C58E8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B0-BB-8B (hex) WAVETEL TECHNOLOGY LIMITED
B0BB8B
(base 16) WAVETEL TECHNOLOGY LIMITED
ROOM 1611B, 16/F, HO KING COMMERCIAL CENTRE, 2-16 FAYUEN STREET, MONGKOK, KOWLOON
HONGKONG 999077
CN

34-A8-EB (hex) Apple, Inc.
34A8EB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

1C-B3-E9 (hex) Shenzhen Zhongke United Communication Technology
1CB3E9 (base 16) Shenzhen Zhongke United Communication Technology
6C jiajiahao commercial building, Shennan avenue
Shenzhen Guangdong 518000
CN

A4-83-E7 (hex) Apple, Inc.
A483E7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F4-AF-E7 (hex) Apple, Inc.
F4AFE7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-88-FD (hex) Apple, Inc.
AC88FD (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

64-89-F1 (hex) Samsung Electronics Co.,Ltd
6489F1 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

50-3E-7C
(hex) LeiShen Intelligent System Co.Ltd
503E7C (base 16) LeiShen Intelligent System Co.Ltd
4th Floor,No.1 Commercial Building,Cultural Center,Tanggang Road,Tanggang Community,Shajing Street,Baoan District
Shenzhen Guangdong 518104
CN

24-3F-30 (hex) Oxygen Broadband s.a.
243F30 (base 16) Oxygen Broadband s.a.
2 Messogeion ave., Athens Tower
Athens Attiki 11527
GR

3C-91-80 (hex) Liteon Technology Corporation
3C9180 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

20-32-6C (hex) Samsung Electronics Co.,Ltd
20326C (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

80-FD-7A (hex) BLU Products Inc
80FD7A (base 16) BLU Products Inc
10814 NW 33rd Street
Miami FL 33172
US

B4-A3-05 (hex) XIAMEN YAXON NETWORK CO., LTD.
B4A305 (base 16) XIAMEN YAXON NETWORK CO., LTD.
46#,Guanri
Road, Software Park II
Xiamen Fujian 361008
CN

80-3E-48 (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT

803E48 (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT
SONGGANG
SHENZHEN GUANGDONG 518105
CN

24-58-6E (hex) zte corporation
24586E (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

C0-07-4A (hex) Brita GmbH
C0074A (base 16) Brita GmbH
Heinrich-Hertz-Str. 4
Taunusstein 65232
DE

E8-B2-FE (hex) HUMAX Co., Ltd.
E8B2FE (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

00-17-FA (hex) Microsoft Corporation
0017FA (base 16) Microsoft Corporation
One Microsoft Way
Redmond Washington 98052-6399
US

94-BF-C4 (hex) Ruckus Wireless
94BFC4 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

20-34-FB (hex) Xiaomi Communications
Co Ltd
2034FB (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

A8-9C-ED (hex) Xiaomi Communications Co Ltd
A89CED (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

6C-A6-04 (hex) ARRIS Group, Inc.
6CA604 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-12-4E (hex) XAC AUTOMATION CORP.
00124E (base 16) XAC AUTOMATION CORP.
4F, 30 Industry E. Road IX
Hsin-Chu 300
US

88-E0-34 (hex) Shinwa industries(China) ltd.
88E034 (base 16) Shinwa industries(China) ltd.
No.26,Huifeng West 2 Road,Zhongkai High-tech Zone
Huizhou Guangdong 516006
CN

BC-CF-4F (hex) Zyxel Communications Corporation
BCCF4F (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu
Taiwan 300
TW

0C-E0-41 (hex) iDruide
0CE041 (base 16) iDruide
19 Rue de la Turbie
MONACO 98000
MC

B8-8F-B4 (hex) JABIL CIRCUIT ITALIA S.R.L
B88FB4 (base 16) JABIL CIRCUIT ITALIA S.R.L
via andrea appiani 12
milano 20121
IT

C0-10-B1 (hex) HMD Global Oy
C010B1 (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

00-52-C2 (hex) peiker acustic GmbH
0052C2 (base 16) peiker acustic GmbH
Max-Planck-Strasse 28-32
Friedrichsdorf 61381
DE

90-89-5F (hex) WEIFANG GOERTEK ELECTRONICS CO.,LTD
90895F (base 16) WEIFANG GOERTEK ELECTRONICS CO.,LTD
Gaoxin 2 Road, Free Trade Zone,Weifang,Shandong,261205,P.R.China
Weifang Shandong 261205
CN

48-D8-45 (hex) Shenzhen Mainuoke Electronics Co., Ltd
48D845 (base 16) Shenzhen Mainuoke Electronics Co., Ltd
9th Floor, Hengtemei Building, Buji
Shenzhen Guangdong 518000
CN

D0-EC-35 (hex) Cisco Systems,
Inc
D0EC35 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

38-00-25 (hex) Intel Corporate
380025 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

0C-F4-75 (hex) Zliide Technologies ApS
0CF475 (base 16) Zliide Technologies ApS
Sverigesgade 6
Aarhus 8000
DK

68-FF-7B (hex) TP-LINK TECHNOLOGIES CO.,LTD.
68FF7B (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

80-8F-1D (hex) TP-LINK TECHNOLOGIES CO.,LTD.
808F1D (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

00-0F-69 (hex) SEW Eurodrive GmbH & Co. KG
000F69 (base 16) SEW Eurodrive GmbH & Co. KG
Ernst Blickle Str. 42
Bruchsal

76646
DE

8C-53-D2 (hex) China Mobile Group Device Co.,Ltd.
8C53D2 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

D0-58-C0 (hex) Qingdao Haier Multimedia Limited.
D058C0 (base 16) Qingdao Haier Multimedia Limited.
Pingban Building, Haier Industry Park, Laoshan District,
Qingdao Shandong 266103
CN

F8-D4-78 (hex) Flextronics Tech.(Ind) Pvt Ltd
F8D478 (base 16) Flextronics Tech.(Ind) Pvt Ltd
365, Benjamin Road
Sricity Vardahiah Palem(M),Chilamathur Village, Chittoor Distict 517646
IN

38-21-C7 (hex) Aruba, a Hewlett Packard Enterprise Company
3821C7 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

48-BD-0E (hex) Quanta Storage Inc.
48BD0E (base 16) Quanta Storage Inc.
3F. No.188, Wenhua 2nd Rd
Taoyuan City Guishan District 33383
TW

D4-53-83 (hex) Murata Manufacturing
Co., Ltd.
D45383 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

A0-42-46 (hex) IT Telecom Co., Ltd.
A04246 (base 16) IT Telecom Co., Ltd.
517 TheOvalley 555-9 Hogye-dong, Dong An-gu
Anyang-si Gyeonggi-do 14117
KR

A4-5F-9B (hex) Nexell
A45F9B (base 16) Nexell

12F, 31 Hwangsaeul-ro 258 beon-gil, Bundang-gu
Seongnam-si, Gyeonggi-do 13595
KR

E4-58-E7 (hex) Samsung Electronics Co.,Ltd
E458E7 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-10-4A (hex) The Parvus Corporation
00104A (base 16) The Parvus Corporation
3222 S Washington St.
Salt Lake City UT 84115
US

94-B4-0F (hex) Aruba, a Hewlett Packard Enterprise Company
94B40F (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

00-1A-1E (hex) Aruba, a Hewlett Packard Enterprise
Company
001A1E (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

00-24-6C (hex) Aruba, a Hewlett Packard Enterprise Company
00246C (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

48-C3-B0 (hex) Pharos Co.Ltd
48C3B0 (base 16) Pharos Co.Ltd
503 Ogong-ro 144 Deokjin-gu
Jeonju-si 54873
KR

DC-58-BC (hex) Thomas-Krenn.AG
DC58BC (base 16) Thomas-Krenn.AG
Speltenbach-Steinaecker 1
Freyung 94078
DE

00-10-25 (hex) Grayhill, Inc

001025 (base 16) Grayhill, Inc
561 Hillgrove Ave
LaGrange IL 60525
US

70-EA-1A (hex) Cisco Systems, Inc
70EA1A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

80-8A-8B (hex) vivo Mobile Communication Co., Ltd.
808A8B (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong,
523860
CN

1C-3B-8F (hex) Selve GmbH & Co. KG
1C3B8F (base 16) Selve GmbH & Co. KG
Werdohler Landstraße 286
Lüdenscheid 58513
DE

E4-E7-49 (hex) Hewlett Packard
E4E749 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

98-44-B6 (hex) INFRANOR SAS
9844B6 (base 16) INFRANOR SAS
Avenue Jean Moulin
LOURDES 65100
FR

38-83-9A (hex) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
38839A (base 16) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
Bldg56A,6/F,Baotian Rd3,Xixiang Town,Baoan District,
Shenzhen Guangdong 518000
CN

C8-F6-C8 (hex) Fiberhome Telecommunication Technologies Co.,LTD
C8F6C8 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

A8-6D-AA (hex) Intel Corporate
A86DAA (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

38-C2-BA (hex) CCTV NEOTECH
38C2BA
(base 16) CCTV NEOTECH
68, Digital-ro 9-gil, Geumcheon-gu
Seoul ks013
KR

A0-F9-B7 (hex) Ademco Smart Homes Technology(Tianjin)Co.,Ltd.
A0F9B7 (base 16) Ademco Smart Homes Technology(Tianjin)Co.,Ltd.
No.156 Nanhai Road,TEDA, Jinbin Development Park , 21st Factory Building
Tianjin Tianjin 300457
CN

A8-3C-CB (hex) ROSSMA
A83CCB (base 16) ROSSMA
Malkova,12-108
PERM 614087
RU

DC-67-23 (hex) barox Kommunikation GmbH
DC6723 (base 16) barox Kommunikation GmbH
Marie-Curie-Strasse 8
Lörrach DE-79539
DE

44-B4-62 (hex) Flextronics Tech.(Ind) Pvt Ltd
44B462 (base 16) Flextronics Tech.(Ind) Pvt Ltd
365, Benjamin Road
Sricity Vardahiah Palem(M),Chilamathur Village, Chittoor Distict 517646
IN

CC-3F-EA (hex) BAE Systems, Inc
CC3FEA (base 16) BAE Systems, Inc
1098 Clark St
Endicott NY 13760
US

94-67-7E (hex) Belden India Private Limited
94677E (base 16) Belden
India Private Limited
Plot No. D-228, Chakan MIDC Phase 2,
Village Bhamboli, Taluka:Khed Pune, Maharashtra 410 507

IN

AC-57-75 (hex) HMD Global Oy
AC5775 (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

E8-5B-B7 (hex) Ample Systems Inc.
E85BB7 (base 16) Ample Systems Inc.
11F-2, No. 95 Minquan Rd.
New Taipei City 231
TW

AC-43-30 (hex) Versa Networks
AC4330 (base 16) Versa Networks
6001 America center Drive, Suite 400
San Jose CA 95070
US

D4-3A-2E (hex) SHENZHEN MTC CO LTD
D43A2E (base 16) SHENZHEN MTC CO LTD
5th Floor, 3rd Building, SHENZHEN MTC Industrial Park, XiaLilang Rd, Nanwan Street, Long'gang District
Shenzhen Guangdong 518100
CN

EC-C5-7F (hex) Suzhou Pairlink Network Technology
ECC57F (base 16) Suzhou Pairlink Network Technology
Room304, Building 4, No.209, Zhu Yuan Road, Suzhou new district
Suzhou Jiangsu 215011
CN

30-C3-D9 (hex) ALPSALPINE
CO,.LTD
30C3D9 (base 16) ALPSALPINE CO,.LTD
6-1
Kakuda Miyagi-Pref 981-1595
JP

50-AD-92 (hex) NX Technologies
50AD92 (base 16) NX Technologies
5F(OS Building), 57, Daeril-2gil, Beomseo-eup
Ulsan 44922
KR

4C-F2-BF (hex) Cambridge Industries(Group) Co.,Ltd.
4CF2BF (base 16) Cambridge Industries(Group) Co.,Ltd.
22 Floor,Qilai Tower;889 Yishan Road

Shanghai 200233
CN

CC-9E-A2 (hex) Amazon Technologies Inc.
CC9EA2 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno 89507
US

00-1B-FB (hex) ALPSALPINE CO,.LTD
001BFB (base 16) ALPSALPINE CO,.LTD
1-2-1, Okinouchi,
Soma-city, Fukushima-pref., 976-8501
JP

8C-AE-DB (hex) NAGTECH LLC
8CAEDB (base 16) NAGTECH LLC
12A, Krasnolesya Str., off 507
Ekaterinburg Sverdlovskaya oblast 620110
RU

78-B2-13 (hex) DWnet Technologies(Suzhou) Corporation
78B213 (base 16) DWnet Technologies(Suzhou) Corporation
No.8,Tangzhuang
Road, Suzhou Industrial Park, Jiangsu, China
Suzhou 21500
CN

08-F1-EA (hex) Hewlett Packard Enterprise
08F1EA (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

7C-DB-98 (hex) ASKEY COMPUTER CORP
7CDB98 (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

38-0B-3C (hex) Texas Instruments
380B3C (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

68-45-F1 (hex) TOSHIBA CLIENT SOLUTIONS CO., LTD.
6845F1 (base 16) TOSHIBA CLIENT SOLUTIONS CO., LTD.

Tachihi Building No.2, 6-1-3, Sakae-Cho
Tachikawa-shi Tokyo 190-0003
JP

6C-A9-36 (hex) DisplayLink (UK) Ltd
6CA936 (base 16) DisplayLink (UK) Ltd
140 Science Park, Milton road
Cambridge Cambridgeshire CB4 0GF
GB

70-85-40 (hex) Skyworth Digital Technology(Shenzhen) Co.,Ltd
708540 (base 16) Skyworth Digital Technology(Shenzhen) Co.,Ltd
7F,Block A,Skyworth Building,
Shenzhen Guangdong 518057
CN

F0-0D-F5 (hex) ACOMA Medical Industry Co,. Ltd.
F00DF5 (base 16) ACOMA Medical Industry Co,. Ltd.
2-14-14 hongo
bunkyo-ku Tokyo 113-0033
JP

58-C2-32 (hex) NEC Corporation
58C232 (base 16) NEC Corporation
1753, Shimonumabe, Nakahara-Ku, Kawasaki
Kanagawa 211-8666
JP

94-E0-D6 (hex) China Dragon Technology Limited
94E0D6 (base 16) China Dragon Technology Limited
B4 Bldg.Haoshan 1st Industry Park,
Shenzhen Guangdong 518104
CN

B4-A9-FC (hex) Quanta Computer Inc.
B4A9FC (base 16) Quanta Computer Inc.
No. 211, Wen-Hwa 2nd Rd.,Kuei-Shan Dist.
Taoyuan City Taiwan 33377
TW

00-32-17 (hex) Cisco Systems, Inc
003217 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

38-1D-14 (hex) Skydio Inc.

381D14 (base 16) Skydio Inc.
114 Hazel Ave
Redwood City CA 94061
US

3C-28-6D
(hex) Google, Inc.
3C286D (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

00-09-3A (hex) Molex CMS
00093A (base 16) Molex CMS
5224 Katrine Avenue
Downers Grove IL 60515
US

74-F7-37 (hex) KCE
74F737 (base 16) KCE
5F KCE B/D,34,Annam-ro 369beon-gil,Bupyoung-gu
Incheon 21312
KR

48-A4-93 (hex) TAIYO YUDEN CO.,LTD
48A493 (base 16) TAIYO YUDEN CO.,LTD
8-1, Sakae-cho
Takasaki-shi Gunma 370-8522
JP

88-D2-11 (hex) Eko Devices, Inc.
88D211 (base 16) Eko Devices, Inc.
2600 10th St Ste 260
Berkeley CA 94710-2597
US

B8-C2-27 (hex) PSTec
B8C227 (base 16) PSTec
#80, Hwanggeum 3-ro 7beon-gil, Yangchon-eup
Gimpo-si Gyeonggi-do 10048
KR

A4-8C-C0 (hex) JLG Industries, Inc.
A48CC0 (base 16) JLG Industries, Inc.
13224 Fountainhead Plaza
Hagerstown MD 21742
US

48-E6-95 (hex) Insigma Inc
48E695
(base 16) Insigma Inc
43490, Yukon Drive, Suite 102
Ashburn VA 20147
US

B4-79-C8 (hex) Ruckus Wireless
B479C8 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

E8-2C-6D (hex) SmartRG, Inc.
E82C6D (base 16) SmartRG, Inc.
501 SE Columbia Shores Blvd
Vancouver WA 98661
US

04-F9-D9 (hex) Speaker Electronic(Jiashan) Co.,Ltd
04F9D9 (base 16) Speaker Electronic(Jiashan) Co.,Ltd
No. 8 Development Zone Road, Huimin Sub-district
Jiashan Zhejiang 314112
CN

DC-08-0F (hex) Apple, Inc.
DC080F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F8-E9-4E (hex) Apple, Inc.
F8E94E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

EC-2C-E2 (hex) Apple, Inc.
EC2CE2 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

40-BC-60 (hex) Apple, Inc.
40BC60 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino

CA 95014
US

E8-36-17 (hex) Apple, Inc.
E83617 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

9C-64-8B (hex) Apple, Inc.
9C648B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

34-42-62 (hex) Apple, Inc.
344262 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

9C-8C-D8 (hex) Hewlett Packard Enterprise
9C8CD8 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

2C-AA-8E (hex) Wyze Labs Inc
2CAA8E (base 16) Wyze Labs Inc
4030 Lake Washington Boulevard NE
Kirkland WA 98033
US

70-3A-51 (hex) Xiaomi Communications Co Ltd
703A51 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

14-D0-0D (hex) Apple, Inc.
14D00D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C0-3D-D9
(hex) MitraStar Technology Corp.
C03DD9 (base 16) MitraStar Technology Corp.

No. 6, Innovation Road II,
Hsinchu 300
TW

0C-95-41 (hex) CHIPSEA TECHNOLOGIES (SHENZHEN) CORP.
0C9541 (base 16) CHIPSEA TECHNOLOGIES (SHENZHEN) CORP.
9F,BLOCK A,GARDEN CITY DIGITAL BUILDING,NO.1079 NANHAI ROAD,NANSHAN DISTRICT
SHEN ZHEN GUANG DONG 518000
CN

B4-0B-78 (hex) Brusa Elektronik AG
B40B78 (base 16) Brusa Elektronik AG
Neudorf 14
Sennwald St. Gallen 9466
CH

18-1E-95 (hex) AuVerte
181E95 (base 16) AuVerte
14 Riverview Road
Niantic CT 06357
US

9C-69-37 (hex) Qorvo International Pte. Ltd.
9C6937 (base 16) Qorvo International Pte. Ltd.
1 Changi Business Park Avenue 1
#04-01 486058
SG

20-79-18 (hex) Intel Corporate
207918 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

48-35-2E (hex) Shenzhen Wolck Network Product Co.,LTD
48352E (base
16) Shenzhen Wolck Network Product Co.,LTD
9# BuJi BanTian LongBi Industry Area
Shenzhen Guangdong 518129
CN

04-E5-98 (hex) Xiaomi Communications Co Ltd
04E598 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

00-10-60 (hex) BILLIONTON SYSTEMS, INC.

001060 (base 16) BILLIONTON SYSTEMS, INC.
3F-1, NO. 8, LANE 99
HSIN-CHU
TW

C4-D4-89 (hex) JiangSu Joyque Information Industry Co.,Ltd
C4D489 (base 16) JiangSu Joyque Information Industry Co.,Ltd
10 Floor YaHua Building, Xi'anBei Road,
Xuzhou JiangSu 221006
CN

B8-2C-A0 (hex) Resideo
B82CA0 (base 16) Resideo
2 Corporate Center Dr.
Melville NY 11747
US

DC-48-B2 (hex) Baraja Pty. Ltd.
DC48B2 (base 16) Baraja Pty. Ltd.
36 Bradfield Road
West Lindfield NSW 2070
AU

AC-AE-19 (hex) Roku, Inc
ACAE19 (base 16) Roku, Inc
1155
Coleman Ave
San Jose CA 95110
US

C0-BD-C8 (hex) Samsung Electronics Co.,Ltd
C0BDC8 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B4-F9-49 (hex) optilink networks pvt ltd
B4F949 (base 16) optilink networks pvt ltd
501/502, sanjona complex, hemu kalani marg, chembur
mumbai maharashtra 400071
IN

3C-37-86 (hex) NETGEAR
3C3786 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

A4-A1-E4 (hex) Innotube, Inc.
A4A1E4 (base 16) Innotube, Inc.
#1212 MegaCenter SknTechnoPark 124 Sagimakgol-ro Jungwon-gu
Seongnam-si Gyeonggi-do 462-120
KR

98-D3-E7 (hex) Netafim L
98D3E7 (base 16) Netafim L
Kibutz Magal
Kibutz Magal 38845
IL

64-7B-CE (hex) Samsung Electronics Co.,Ltd
647BCE (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A8-87-B3 (hex) Samsung Electronics Co.,Ltd
A887B3
(base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

6C-00-6B (hex) Samsung Electronics Co.,Ltd
6C006B (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

6C-C7-EC (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
6CC7EC (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak SEMTHAI, WELLGROW INDUSTRIAL ESTATE
Bangpakong Chachoengsao 24180
TH

D8-96-85 (hex) GoPro
D89685 (base 16) GoPro
3000 Clearview Way
San Mateo CA 94402
US

A0-A4-C5 (hex) Intel Corporate
A0A4C5 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

F4-D1-08 (hex) Intel Corporate
F4D108 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

60-CE-92 (hex) The Refined Industry Company Limited
60CE92 (base 16) The Refined Industry Company Limited
7/F Sun King Factory Bldg,1
- 7 Shing Chuen Road, Shatin, NT
Hong Kong NT 000000
HK

94-EA-EA (hex) TELLESCOM INDUSTRIA E COMERCIO EM TELECOMUNICACAO
94EAEA (base 16) TELLESCOM INDUSTRIA E COMERCIO EM TELECOMUNICACAO
Av. Buriti, 1900 – Setor B – Distrito Industrial
Manaus Amazonas 69075-000
BR

30-13-89 (hex) Siemens AG, Automations & Drives,
301389 (base 16) Siemens AG, Automations & Drives,
Systems Engineering
FÃ¼rth Deutschlang 90766
DE

1C-FD-08 (hex) IEEE Registration Authority
1CFD08 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

B8-59-9F (hex) Mellanox Technologies, Inc.
B8599F (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

3C-01-EF (hex) Sony Corporation
3C01EF (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

70-6D-15 (hex) Cisco Systems, Inc
706D15 (base 16) Cisco Systems, Inc
80

West Tasman Drive
San Jose CA 94568
US

10-5B-AD (hex) Mega Well Limited
105BAD (base 16) Mega Well Limited
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

F0-63-F9 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F063F9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

7C-C3-85 (hex) HUAWEI TECHNOLOGIES CO.,LTD
7CC385 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

90-0E-B3 (hex) Shenzhen Amediatech Technology Co., Ltd.
900EB3 (base 16) Shenzhen Amediatech Technology Co., Ltd.
2th floor, block A, building B, Minsheng Industrial Zone, Longhua District
Shenzhen Guangdong 518109
CN

F0-54-94 (hex) Honeywell Connected Building
F05494 (base 16) Honeywell Connected Building
1985 DOUGLAS DRIVE
Golden Valley
MN 55422
US

48-87-2D (hex) SHEN ZHEN DA XIA LONG QUE TECHNOLOGY CO.,LTD
48872D (base 16) SHEN ZHEN DA XIA LONG QUE TECHNOLOGY CO.,LTD
Room 511, Building C, Yuxing Technology Park, Gushu Second Road, Bao’an District
SHEN ZHEN GUANG DONG 518000
CN

E8-1A-58 (hex) TECHNOLOGIC SYSTEMS
E81A58 (base 16) TECHNOLOGIC SYSTEMS
16525 E Laser Dr
Fountain Hills AZ 85268-6534
US

00-AD-24 (hex) D-Link International

00AD24 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

54-06-8B (hex) Ningbo Deli Kebei Technology Co.LTD
54068B (base 16) Ningbo Deli Kebei Technology Co.LTD
zone 2nd , 301#, Road Xuxiake, Ninghai yuelong district
ningbo Zhejiang 315600
CN

54-9F-AE (hex) iBASE Gaming Inc
549FAE (base 16) iBASE Gaming Inc
2F., No.542-17, Zhongzheng Rd
Xinzhuang Dist., New Taipei City 24255
TW

00-EA-BD (hex) Cisco Systems,
Inc
00EABD (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

54-80-28 (hex) Hewlett Packard Enterprise
548028 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

74-BF-C0 (hex) CANON INC.
74BFC0 (base 16) CANON INC.
30-2 Shimomaruko 3-chome,
Ohta-ku Tokyo 146-8501
JP

20-B0-01 (hex) Technicolor Delivery Technologies Belgium NV
20B001 (base 16) Technicolor Delivery Technologies Belgium NV
Prins Boudewijnlaan 47
Edegem - Belgium B-2650
BE

18-1D-EA (hex) Intel Corporate
181DEA (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

18-56-80 (hex) Intel Corporate
185680 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C8-D9-D2 (hex) Hewlett Packard
C8D9D2 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

24-FC-E5 (hex) Samsung
Electronics Co.,Ltd
24FCE5 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

80-96-21 (hex) Lenovo
809621 (base 16) Lenovo
1009 Think Place
Morrisvilee NC 27560
US

14-22-33 (hex) Fiberhome Telecommunication Technologies Co.,LTD
142233 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

78-05-5F (hex) Shenzhen WYC Technology Co., Ltd.
78055F (base 16) Shenzhen WYC Technology Co., Ltd.
No.618 Wenzhengxin BuildingHi-tech ParkNanshan District
Shenzhen Guangdong 518000
CN

00-60-EB (hex) FOURTHTRACK SYSTEMS
0060EB (base 16) FOURTHTRACK SYSTEMS
UNIT 3 THE SYCAMORES
MARLOW - SL7 1QB
GB

EC-79-F2 (hex) Startel
EC79F2 (base 16) Startel
Xi Chuang Industrial ParkSecond industrial district of Guan Long VillageXili town Nanshan District
Shenzhen Guangdong 518055
CN

04-BC-87
(hex) Shenzhen JustLink Technology Co., LTD
04BC87 (base 16) Shenzhen JustLink Technology Co., LTD
Room 5002,The 2nd Unit of the Building East, Laobing Building, No.3012 Xingye Road,Baoan District
Shenzhen Guangdong Province 518101
CN

54-C3-3E (hex) Ciena Corporation
54C33E (base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

18-62-E4 (hex) Texas Instruments
1862E4 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

D4-AB-82 (hex) ARRIS Group, Inc.
D4AB82 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

70-4F-B8 (hex) ARRIS Group, Inc.
704FB8 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

5C-C9-99 (hex) New H3C Technologies Co., Ltd
5CC999 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

B0-2A-43 (hex) Google,
Inc.
B02A43 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

C4-74-F8 (hex) Hot Pepper, Inc.
C474F8 (base 16) Hot Pepper, Inc.
5151 California Ave., Suite 100,

Irvine 92617
US

BC-B2-2B (hex) EM-Tech
BCB22B (base 16) EM-Tech
40, Changwon-daero 1144beon-gil
Seongsan-gu Changwon Gyeongsangnam-do KR 642-120
KR

B0-8B-CF (hex) Cisco Systems, Inc
B08BCF (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

C4-98-5C (hex) Hui Zhou Gaoshengda Technology Co.,LTD
C4985C (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

30-A1-FA (hex) HUAWEI TECHNOLOGIES CO.,LTD
30A1FA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

64-62-8A (hex) evon GmbH
64628A (base 16) evon
GmbH
Frank-Stronach-Straße 8
Gleisdorf Styria 8200
AT

04-15-D9 (hex) Viwone
0415D9 (base 16) Viwone
54 - 56 , Avenue Hoche
Paris 75008
FR

DC-37-57 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
DC3757 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

00-50-99 (hex) 3COM EUROPE LTD
005099 (base 16) 3COM EUROPE LTD

BOUNDARY WAY
HERTS. HP2 7YU vvvvvv
GB

EC-B3-13 (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
ECB313 (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT
SONGGANG
SHENZHEN GUANGDONG 518105
CN

24-2E-90 (hex) PALIT MICROSYSTEMS, LTD
242E90 (base 16) PALIT MICROSYSTEMS, LTD
21F.,No.88,Sec.2,Zhongxiao E.Rd.,Golden Tower,
TAIPEI 100
TW

74-34-00 (hex) MTG Co., Ltd.
743400 (base 16) MTG Co., Ltd.
MTG No. 2 HIKARI Bldg., 4-13 Honjindori
Nakamura-ku, Nagoya Aichi 453-0041
JP

60-35-C0
(hex) SFR
6035C0 (base 16) SFR
12 rue jean-philippe Rameau CS 80001
La plaine saint denis FRANCE 93634
FR

00-1A-C5 (hex) Keysight Technologies, Inc.
001AC5 (base 16) Keysight Technologies, Inc.
1400 Fountaingrove Pkwy.
Santa Rosa CA 95403
US

00-20-1E (hex) NETQUEST CORPORATION
00201E (base 16) NETQUEST CORPORATION
523 FELLOWSHIP ROAD-STE.#205
MT. LAUREL NJ 08054
US

00-60-8C (hex) 3COM
00608C (base 16) 3COM
5400 BAYFRONT PLAZA
SANTA CLARA CA 95052
US

00-A0-24 (hex) 3COM

00A024 (base 16) 3COM
5400 BAYFRONT PLAZA
SANTA CLARA CA 95052
US

00-20-AF (hex) 3COM
0020AF (base 16) 3COM
5400 BAYFRONT PLAZA
SANTA CLARA CA 95052
US

00-10-4B (hex) 3COM
00104B (base 16) 3COM
5400 BAYFRONT PLAZA
SANTA CLARA CA 95052
US

A8-5A-F3 (hex) Shanghai Siflower Communication Technology Co., Ltd
A85AF3 (base 16) Shanghai Siflower Communication
Technology Co., Ltd
Rm. 408, No. 84, Lane 887. Zhangjiang Hi-Tech Park. Zuchongzhi Rd. Shanghai, China
Shanghai Shanghai 201210
CN

70-FD-46 (hex) Samsung Electronics Co.,Ltd
70FD46 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

8C-83-E1 (hex) Samsung Electronics Co.,Ltd
8C83E1 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

64-5D-86 (hex) Intel Corporate
645D86 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

9C-AA-1B (hex) Microsoft Corporation
9CAA1B (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

E0-0E-E1 (hex) We Corporation Inc.
E00EE1 (base 16) We Corporation Inc.
201, 33, Deokcheon-ro, Manan-gu
Anyang-si Gyeonggi-do 14088
KR

A8-9A-93 (hex) Sagemcom Broadband SAS
A89A93 (base 16) Sagemcom Broadband SAS
250, route de
l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

8C-92-46 (hex) Oerlikon Textile Gmbh&Co.KG
8C9246 (base 16) Oerlikon Textile Gmbh&Co.KG
NO.9 Changyang Street
Suzhou Jiangsu 215000
CN

00-0E-94 (hex) Maas International BV
000E94 (base 16) Maas International BV
Science Park Eindhoven 5051
Son Noord Brabant NL-5692 EB
NL

00-0C-43 (hex) Ralink Technology, Corp.
000C43 (base 16) Ralink Technology, Corp.
4F, No.2, Technology 5th Road,
Hsin-Chu 200
TW

48-98-CA (hex) Sichuan AI-Link Technology Co., Ltd.
4898CA (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou,Industrial Park
Anzhou,Industrial Park Sichuan 621000
CN

24-7E-51 (hex) zte corporation
247E51 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

E8-B5-41 (hex) zte corporation
E8B541 (base 16) zte corporation
12/F.,zte R&D building
,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057

CN

0C-9D-92 (hex) ASUSTek COMPUTER INC.
0C9D92 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

0C-CB-85 (hex) Motorola Mobility LLC, a Lenovo Company
0CCB85 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

88-9F-6F (hex) Samsung Electronics Co.,Ltd
889F6F (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

5C-63-C9 (hex) Intellithings Ltd.
5C63C9 (base 16) Intellithings Ltd.
Hanehoshet 10
Tel Aviv Israel 6971072
IL

0C-96-E6 (hex) Cloud Network Technology (Samoa) Limited
0C96E6 (base 16) Cloud Network Technology (Samoa) Limited
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

3C-89-94 (hex) SKY UK LIMITED
3C8994 (base
16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

58-2D-34 (hex) Qingping Electronics (Suzhou) Co., Ltd
582D34 (base 16) Qingping Electronics (Suzhou) Co., Ltd
Room 304, A3 Building, NO.88 Dongchang Road, Suzhou Industrial Park
Suzhou Jiangsu Province 215028
CN

20-DE-88 (hex) IC Realtime LLC
20DE88 (base 16) IC Realtime LLC
3050 N Andrews Ave Ext.

Pompano Beach FL 33064
US

48-2C-A0 (hex) Xiaomi Communications Co Ltd
482CA0 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

A4-E6-15 (hex) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
A4E615 (base 16) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
Unit East Block22-24/F,Skyworth semiconductor design Bldg., Gaoxin Ave.4.S.,Nanshan District,Shenzhen,China
SHENZHEN GUANGDONG 518057
CN

00-1A-31 (hex) SCAN COIN AB
001A31 (base 16) SCAN COIN
AB
Jagershillgatan 26
Malmö Skåne 21375
SE

00-1B-84 (hex) Scan Engineering Telecom
001B84 (base 16) Scan Engineering Telecom
Svobody str. 75
Voronezh 394030
RU

F4-06-8D (hex) devolo AG
F4068D (base 16) devolo AG
Charlottenburger Allee 67
Aachen NRW 52068
DE

98-8E-D4 (hex) ITEL MOBILE LIMITED
988ED4 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

E8-A7-88 (hex) XIAMEN LEELEN TECHNOLOGY CO., LTD
E8A788 (base 16) XIAMEN LEELEN TECHNOLOGY CO., LTD
65 Sunban South Rd., Jimei North Industrial Zone,
Xiamen Fujian 361021
CN

34-12-F9 (hex) HUAWEI TECHNOLOGIES CO.,LTD
3412F9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

BC-E2-65 (hex) HUAWEI TECHNOLOGIES CO.,LTD
BCE265 (base 16) HUAWEI TECHNOLOGIES
CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

4C-D1-A1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
4CD1A1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

88-BF-E4 (hex) HUAWEI TECHNOLOGIES CO.,LTD
88BFE4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

40-17-E2 (hex) INTAI TECHNOLOGY CORP.
4017E2 (base 16) INTAI TECHNOLOGY CORP.
No.9, JINGKE RD.,NANTUN DIST.
TAICHUNG CITY 40852
TW

74-1F-79 (hex) YOUNGKOOK ELECTRONICS CO.,LTD
741F79 (base 16) YOUNGKOOK ELECTRONICS CO.,LTD
#810, Daewoo Frontier Valley 1,16-25, Dongbaekjungang-ro 16beon-gil, Giheung-gu
YONGIN Gyeonggi-do 17015
KR

E0-73-5F (hex) NUCOM
E0735F (base 16) NUCOM
Arte, 21,5B
Madrid Madrid 28033
ES

00-51-ED (hex) LG Innotek
0051ED
(base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

40-DC-9D (hex) HAJEN
40DC9D (base 16) HAJEN
102-1302, Sinwon-ro 88, Yeongtong-gu
Suwon-Si Gyeonggi-do 16681
KR

F0-BC-C9 (hex) PFU LIMITED
F0BCC9 (base 16) PFU LIMITED
Nu 98-2 Unoke
Kahoku-shi, Ishikawa 929-1192
JP

B4-CE-FE (hex) James Czekaj
B4CEFE (base 16) James Czekaj
41716 Waterfall Rd
Northville MI 48168
US

88-AE-1D (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
88AE1D (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO. 25, THE 3RD STREET KUNSHAN EXPORT PROCESSING ZONE
KUNSHAN SUZHOU 215300
CN

C4-51-8D (hex) Shenzhen YOUHUA Technology Co., Ltd
C4518D (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

48-68-34 (hex) Silicon Motion, Inc.
486834 (base
16) Silicon Motion, Inc.
8F, No. 36, Taiyuan St.
Zhubei City Hsinchu County 30265
TW

F8-CC-6E (hex) DEPO Electronics Ltd
F8CC6E (base 16) DEPO Electronics Ltd
12, kommunalnaya zona Krasnogorsk-Mitino
Krasnogorsk Moscow region 143404
RU

F8-36-9B (hex) Texas Instruments
F8369B (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

A0-93-51 (hex) Cisco Systems, Inc
A09351 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

98-03-9B (hex) Mellanox Technologies, Inc.
98039B (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

B8-88-E3 (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
B888E3 (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
No.25, Third Avenue, A Zone, Kunshan Comprehensive Free Trade Zone,, Jiangsu,
KUNSHAN SUZHOU 215300
CN

20-89-84 (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
208984
(base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
No.25, Third Avenue, A Zone, Kunshan Comprehensive Free Trade Zone
KUNSHAN SUZHOU 215300
CN

64-13-31 (hex) Bosch Car Multimedia (Wuhu) Co. Ltd.
641331 (base 16) Bosch Car Multimedia (Wuhu) Co. Ltd.
NO.48 North Yinhu Road
Wuhu city Anhui Province 241000
CN

18-3A-48 (hex) VostroNet
183A48 (base 16) VostroNet
GPO Box 3154
Brisbane Queensland 4000
AU

78-2F-17 (hex) Xlab Co.,Ltd
782F17 (base 16) Xlab Co.,Ltd
#401 4F, Achasan-ro, Seongdong-gu
SEOUL 04793
KR

B0-02-7E (hex) MULLER SERVICES
B0027E (base 16) MULLER SERVICES
107 Boulevard Ney
PARIS ILE DE FRANCE 75018

FR

24-FA-F3 (hex) Shanghai Flexem Technology Co.,Ltd.
24FAF3 (base 16) Shanghai Flexem Technology Co.,Ltd.
Room 804, C6 Building,No.52 Bay Valley Technology Park, Lane 1688 North Guoquan Road, Yangpu District.
Shanghai 200438
CN

28-9E-FC
(hex) Sagemcom Broadband SAS
289EFC (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

00-C0-55 (hex) MODULAR COMPUTING TECHNOLOGIES
00C055 (base 16) MODULAR COMPUTING TECHNOLOGIES
2352 MAIN STREET
CONCORD MA 01742
US

E4-1F-E9 (hex) Dunkermotoren GmbH
E41FE9 (base 16) Dunkermotoren GmbH
Allmendstr. 11
Bonndorf Baden-Württemberg 79848
DE

D8-76-0A (hex) Escort, Inc.
D8760A (base 16) Escort, Inc.
5440 West Chester Rd.
West Chester Ohio 45069
US

48-75-83 (hex) Intellion AG
487583 (base 16) Intellion AG
Schuppisstrasse 10
St. Gallen St. Gallen 9016
CH

90-4C-81 (hex) Hewlett Packard Enterprise
904C81 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

8C-35-79 (hex) QDIQO Sp. z o.o.
8C3579 (base 16) QDIQO Sp. z o.o.
Stanisawa Wyspiaskiego 11

Zielona Góra lubuskie
65-036
PL

38-C7-0A (hex) WiFiSong
38C70A (base 16) WiFiSong
Rm. 605, Building 3, No. 75 Wenyi West Road
Hangzhou Zhengjiang 310012
CN

FC-FB-FB (hex) Cisco Systems, Inc
FCFBFB (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

88-D2-BF (hex) German Autolabs
88D2BF (base 16) German Autolabs
Köpenicker Str. 154
Berlin Berlin 10997
DE

20-16-3D (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
20163D (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

5C-2E-D2 (hex) ABC(XiSheng) Electronics Co.,Ltd
5C2ED2 (base 16) ABC(XiSheng) Electronics Co.,Ltd
No.2 Industrial building, FuRong 7 Road
ShenZhen GongDong 518100
CN

9C-5A-44 (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
9C5A44 (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO. 25, THE 3RD Street KUNSHAN EXPORT PROCESSING
ZONE
KUNSHAN SUZHOU 215300
CN

34-0A-98 (hex) HUAWEI TECHNOLOGIES CO.,LTD
340A98 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

64-6D-6C (hex) HUAWEI TECHNOLOGIES CO.,LTD

646D6C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-B8-B4 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C4B8B4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

14-CA-A0 (hex) Hu&Co
14CAA0 (base 16) Hu&Co
105 Rue du Jardin
Bordeaux 33000
FR

00-11-33 (hex) Siemens AG Austria
001133 (base 16) Siemens AG Austria
Siemensstrasse 90-92
Vienna 1210
AT

00-0B-23 (hex) Siemens Home & Office Comm. Devices
000B23 (base 16) Siemens Home & Office Comm. Devices
4849 Alpha Road
Dallas 74244
US

D8-24-77
(hex) Universal Electric Corporation
D82477 (base 16) Universal Electric Corporation
168 Georgetown Road
Canonsburg PA 15317
US

00-90-7F (hex) WatchGuard Technologies, Inc.
00907F (base 16) WatchGuard Technologies, Inc.
605 Fifth Ave. S
Seattle WA 98104-3892
US

4C-5E-0C (hex) Routerboard.com
4C5E0C (base 16) Routerboard.com
Mikrotikls SIA
Riga LV1009
LV

D4-CA-6D (hex) Routerboard.com
D4CA6D (base 16) Routerboard.com
Mikrotikls SIA
Riga LV-1009
LV

00-10-17 (hex) Bosch Access Systems GmbH
001017 (base 16) Bosch Access Systems GmbH
Charlottenburger Allee 50
AACHEN D-52068
DE

F4-EE-14 (hex) MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
F4EE14 (base 16) MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
Mid-Fourth Flr.,Building 28,Cui Xi Fourth Road,Ke Yuan West,Nanshan
Shenzhen Guangdong 518057
CN

6C-59-40 (hex) MERCURY COMMUNICATION
TECHNOLOGIES CO.,LTD.
6C5940 (base 16) MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
Mid-Fourth Flr.,Building 28,Cui Xi Fourth Road,Ke Yuan West,Nanshan
Shenzhen Guangdong 518057
CN

D0-25-16 (hex) MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
D02516 (base 16) MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
Mid-Fourth Flr.,Building 28,Cui Xi Fourth Road,Ke Yuan West,Nanshan
Shenzhen Guangdong 518057
CN

1C-60-DE (hex) MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
1C60DE (base 16) MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
Mid-Fourth Flr.,Building 28,Cui Xi Fourth Road,Ke Yuan West,Nanshan
Shenzhen Guangdong 518057
CN

08-D4-6A (hex) LG Electronics (Mobile Communications)
08D46A (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

00-14-72 (hex) China Broadband Wireless IP Standard group(ChinaBWIPS)
001472 (base 16) China Broadband Wireless IP Standard
group(ChinaBWIPS)
P.O.BOX 88,West High-tech
Xi'an Shaan Xi 710075

CN

00-7E-95 (hex) Cisco Systems, Inc
007E95 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

40-06-A0 (hex) Texas Instruments
4006A0 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

80-B5-75 (hex) HUAWEI TECHNOLOGIES CO.,LTD
80B575 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A4-BE-2B (hex) HUAWEI TECHNOLOGIES CO.,LTD
A4BE2B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

28-11-A5 (hex) Bose Corporation
2811A5 (base 16) Bose Corporation
The Mountain
Framingham MA 01701-9168
US

D8-F3-DB (hex) Post CH AG
D8F3DB (base 16) Post CH AG
Wankdorfallee 4
Bern 3030
CH

DC-B4-AC (hex) FLEXTRONICS MANUFACTURING(ZHUHAI)CO.,LTD.
DCB4AC
(base 16) FLEXTRONICS MANUFACTURING(ZHUHAI)CO.,LTD.
Xin Qing Science & Technology Industrial Park,Jin An Town,Doumen ,Zhuhai,Guangdong,PRC
Zhuhai Guangdong 519180
CN

20-3D-BD (hex) LG Innotek
203DBD (base 16) LG Innotek
26, Hanamsandan 5beon-ro

Gwangju Gwangsan-gu 506-731
KR

04-EC-BB (hex) Fiberhome Telecommunication Technologies Co.,LTD
04ECBB (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

D4-21-22 (hex) Sercomm Corporation.
D42122 (base 16) Sercomm Corporation.
3F,No.81,Yu-Yih Rd.,Chu-Nan Chen
Miao-Lih Hsuan 115
TW

00-C0-02 (hex) Sercomm Corporation.
00C002 (base 16) Sercomm Corporation.
3F,No.81,Yu-Yih Rd.,Chu-Nan Chen
Miao-Lih Hsuan 115
TW

68-E7-C2 (hex) Samsung Electronics Co.,Ltd
68E7C2 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

58-B1-0F
(hex) Samsung Electronics Co.,Ltd
58B10F (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A4-53-85 (hex) WEIFANG GOERTEK ELECTRONICS CO.,LTD
A45385 (base 16) WEIFANG GOERTEK ELECTRONICS CO.,LTD
Gaoxin 2 Road,Free Trade Zone,Weifang,Shandong,261205,P.R.China
Weifang Shandong 261205
CN

00-40-2F (hex) XLNT DESIGNS INC.
00402F (base 16) XLNT DESIGNS INC.
15050 AVENUE OF SCIENCE
SAN DIEGO CA 92128
US

A4-92-CB (hex) Nokia
A492CB (base 16) Nokia

600 March Road
Kanata Ontario K2K 2E6
CA

C0-D2-F3 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
C0D2F3 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

64-A2-F9 (hex) OnePlus Technology (Shenzhen) Co., Ltd
64A2F9 (base 16) OnePlus Technology (Shenzhen) Co., Ltd
18C02, 18C03, 18C04 ,18C05,TAIRAN BUILDING,
Shenzhen
Guangdong 518000
CN

A8-7D-12 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A87D12 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B8-83-03 (hex) Hewlett Packard Enterprise
B88303 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

94-19-3A (hex) Elvaco AB
94193A (base 16) Elvaco AB
Kabelgatan 2T
Kungsbacka 43437
SE

BC-99-11 (hex) Zyxel Communications Corporation
BC9911 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

28-02-45 (hex) Konze System Technology Co.,Ltd.
280245 (base 16) Konze System Technology Co.,Ltd.
4F., No.134, Ln. 235, Baoqiao Rd., Xindian Dist.
New Taipei City --- 231
TW

E4-8F-65 (hex) Yelatma Instrument Making Enterprise, JSC

E48F65 (base 16) Yelatma Instrument Making Enterprise, JSC
Yanina
25
Yelatma Ryazan Region 391351
RU

84-0D-8E (hex) Espressif Inc.
840D8E (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

00-BB-3A (hex) Amazon Technologies Inc.
00BB3A (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

F8-2D-C0 (hex) ARRIS Group, Inc.
F82DC0 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

18-9C-27 (hex) ARRIS Group, Inc.
189C27 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

3C-F5-CC (hex) New H3C Technologies Co., Ltd
3CF5CC (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

00-20-82 (hex) ONEAC CORPORATION
002082 (base 16) ONEAC CORPORATION
27944 N. BRADLEY RD.
LIBERTYVILLE IL 60048
US

00-00-A8 (hex) Stratus Technologies
0000A8 (base 16) Stratus
Technologies
5 Mill and Main Place, Suite 500
Maynard MA 01754
US

00-04-FC (hex) Stratus Technologies
0004FC (base 16) Stratus Technologies
5 Mill and Main Place, Suite 500
Maynard MA 01754
US

3C-24-F0 (hex) IEEE Registration Authority
3C24F0 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

0C-B3-4F (hex) Shenzhen Xiaoqi Intelligent Technology Co., Ltd.
0CB34F (base 16) Shenzhen Xiaoqi Intelligent Technology Co., Ltd.
Room 1501, Block B4, Building 9, Section 2, Shenzhen Bay Science & Technology Ecological Park, West Shahe Road, Nanshan District,
Shenzhen Guangdong 518000
CN

C0-81-35 (hex) Ningbo Forfan technology Co., LTD
C08135 (base 16) Ningbo Forfan technology Co., LTD
Room B308,Tianjing Building,Tianan Cyber Park,Futian
Shenzhen Guangdong 518040
CN

3C-F4-F9 (hex) Moda-InnoChips
3CF4F9 (base 16) Moda-InnoChips
42-7(Wonsi-Dong),Dongsan-ro
27beon-gil,Danwon-gu
Ansan-si Gyeonggi-Do 15433
KR

50-5D-AC (hex) HUAWEI TECHNOLOGIES CO.,LTD
505DAC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B0-A3-7E (hex) QING DAO HAIER TELECOM CO.,LTD.
B0A37E (base 16) QING DAO HAIER TELECOM CO.,LTD.
No.1,Haier Road,Qingdao 266101 P.R.China
Qingdao Shandong 266101
CN

3C-EA-F9 (hex) JUBIXCOLTD
3CEAF9 (base 16) JUBIXCOLTD
Rm 808, 809, B dong, Gunpo IT vally, 17, Gosan-ro 148beon-gil, Gunpo-si, Gyeonggi-do, Republic of Korea

GUNPOSI 15850
KR

68-2C-7B (hex) Cisco Systems, Inc
682C7B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E8-FA-F7 (hex) Guangdong Uniteddata Holding Group Co., Ltd.
E8FAF7 (base 16) Guangdong Uniteddata Holding Group Co., Ltd.
39L, Pearl River Tower, No.15 Zhujiang West Road,Tianhe District
GUANGZHOU GUANGDONG
510623
CN

94-9D-57 (hex) Panasonic do Brasil Limitada
949D57 (base 16) Panasonic do Brasil Limitada
Rua Matrinxa
Manaus Amazonas 69075150
BR

FC-69-47 (hex) Texas Instruments
FC6947 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

E0-7D-EA (hex) Texas Instruments
E07DEA (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

B4-C0-F5 (hex) Shenzhen TINNO Mobile Technology Corp.
B4C0F5 (base 16) Shenzhen TINNO Mobile Technology Corp.
Building, No.33, Xiandong Rd, Xili
Nanshan District, Shenzhen PRC 518053
CN

40-62-31 (hex) GIFA
406231 (base 16) GIFA
11th Fl., Suojia Business Building , No.7 Hangkong Road , Baoan District
Shenzhen Guangdong 518000
CN

FC-B7-F0 (hex) Idaho National Laboratory
FCB7F0 (base 16) Idaho National Laboratory

2525 N. Fremont Ave
Idaho Falls ID 83415
US

04-D3-B0 (hex) Intel Corporate
04D3B0 (base 16) Intel
Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

58-DB-15 (hex) TECNO MOBILE LIMITED
58DB15 (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

50-50-CE (hex) Hangzhou Dianyixia Communication Technology Co. Ltd.
5050CE (base 16) Hangzhou Dianyixia Communication Technology Co. Ltd.
Room 207, Building 7, 1197 bin 'an road, Binjiang district,
Hangzhou Zhejiang 310011
CN

2C-28-B7 (hex) Hangzhou Ruiying technology co., LTD
2C28B7 (base 16) Hangzhou Ruiying technology co., LTD
No. 1, building 305, Yunqi Town Cloud Computing Industrial Park, Hangzhou City, Xihu District
Hangzhou Zhejiang 310000
CN

04-6B-1B (hex) SYSDINE Co., Ltd.
046B1B (base 16) SYSDINE Co., Ltd.
506 Convergence technology research commercialization center 218 Gajung-Ro, Yuseong-gu
Daejeon-City
Daejeon-City 34129
KR

1C-66-6D (hex) Hon Hai Precision Ind. Co.,Ltd.
1C666D (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

DC-DE-4F (hex) Gionee Communication Equipment Co Ltd
DCDE4F (base 16) Gionee Communication Equipment Co Ltd
21/F Times Technology Building, 7028 Shennan Road
Shenzhen Futian District 518040
CN

4C-D0-CB (hex) HUAWEI TECHNOLOGIES CO.,LTD
4CD0CB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

88-D3-7B (hex) FirmTek, LLC
88D37B (base 16) FirmTek, LLC
29300 Kohoutek Way
Union City CA 94587
US

44-1E-98 (hex) Ruckus Wireless
441E98 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

00-72-78 (hex) Cisco Systems, Inc
007278 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose
CA 94568
US

00-A0-21 (hex) General Dynamics Mission Systems
00A021 (base 16) General Dynamics Mission Systems
150 Rustcraft Road
Dedham MA 02026
US

90-DD-5D (hex) Apple, Inc.
90DD5D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-AF-50 (hex) Phantom Intelligence
F0AF50 (base 16) Phantom Intelligence
319 Rue Franquet Suite F
Quebec QC G1P 4R4
CA

00-25-0C (hex) Senet Inc
00250C (base 16) Senet Inc
100 Market Street, Suite 302
Portsmouth NH 03801

US

0C-80-63 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
0C8063 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

B4-CD-27 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B4CD27 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C8-19-F7
(hex) Samsung Electronics Co.,Ltd
C819F7 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

DC-29-19 (hex) AltoBeam (Xiamen) Technology Ltd, Co.
DC2919 (base 16) AltoBeam (Xiamen) Technology Ltd, Co.
South Building 203-38,Huoju Square ,No.56-58,Huoju Road, Huoju Park, Huoju High-tech District
Xiamen 361000
CN

64-5A-ED (hex) Apple, Inc.
645AED (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

84-F3-EB (hex) Espressif Inc.
84F3EB (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

00-1B-48 (hex) Shenzhen Lantech Electronics Co., Ltd.
001B48 (base 16) Shenzhen Lantech Electronics Co., Ltd.
306 Room, Nanshan Water Building,
Shenzhen Guangdong 518052
CN

FC-2A-9C (hex) Apple, Inc.
FC2A9C (base 16) Apple, Inc.
1 Infinite Loop

Cupertino CA 95014
US

A0-56-F3
(hex) Apple, Inc.
A056F3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

54-99-63 (hex) Apple, Inc.
549963 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C0-B6-58 (hex) Apple, Inc.
C0B658 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

48-A9-1C (hex) Apple, Inc.
48A91C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

50-BC-96 (hex) Apple, Inc.
50BC96 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-2F-D9 (hex) Fiberhome Telecommunication Technologies Co.,LTD
002FD9 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

88-5F-E8 (hex) IEEE Registration Authority
885FE8 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

38-80-DF (hex) Motorola Mobility LLC, a Lenovo Company
3880DF (base

16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

BC-6A-2F (hex) Henge Docks LLC
BC6A2F (base 16) Henge Docks LLC
455 10th St.
San Francisco California 94103
US

F4-E1-1E (hex) Texas Instruments
F4E11E (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

C4-2C-4F (hex) Qingdao Hisense Mobile Communication Technology Co,Ltd
C42C4F (base 16) Qingdao Hisense Mobile Communication Technology Co,Ltd
No.399, Song Ling Road
Qingdao Shandong 266100
CN

24-CA-CB (hex) Fiberhome Telecommunication Technologies Co.,LTD
24CACB (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

54-3E-64 (hex) Fiberhome Telecommunication Technologies Co.,LTD
543E64 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

64-02-CB (hex) ARRIS Group,
Inc.
6402CB (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

0C-08-B4 (hex) HUMAX Co., Ltd.
0C08B4 (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

DC-02-65 (hex) Meditech Kft
DC0265 (base 16) Meditech Kft
Üllõi út 200.
Budapest 1191
HU

48-BD-3D (hex) New H3C Technologies Co., Ltd
48BD3D (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

00-27-05 (hex) Sectronic
002705 (base 16) Sectronic
Z.I. Les Saulniers
Sainte-Maure de Touraine 37800
FR

18-0F-76 (hex) D-Link International
180F76 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

90-94-97 (hex) HUAWEI TECHNOLOGIES CO.,LTD
909497 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake
Technology Park
Dongguan 523808
CN

DC-72-9B (hex) HUAWEI TECHNOLOGIES CO.,LTD
DC729B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

14-A7-2B (hex) currentoptronics Pvt.Ltd
14A72B (base 16) currentoptronics Pvt.Ltd
CRT Building, Jupitor Jn , Near Time kids Koothattukulam - Piravom Rd
ERNAKULAM Time Kids day care 686662
IN

3C-17-10 (hex) Sagemcom Broadband SAS
3C1710 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

34-02-9B (hex) Plexonics Technologies LImited
34029B (base 16) Plexonics Technologies LImited
1st Floor, 181/23 Industrial Area Phase 1
Chandigarh Punjab 160002
IN

84-DB-9E (hex) Pink Nectarine Health AB
84DB9E (base 16) Pink Nectarine Health AB
Munkbron 11
Stockholm 111 28
SE

A4-DA-22 (hex) IEEE Registration Authority
A4DA22
(base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

90-03-72 (hex) Longnan Junya Digital Technology Co. Ltd.
900372 (base 16) Longnan Junya Digital Technology Co. Ltd.
Champion Asia Road, Xinzhen industrial Park, Longnan national economic and technological development zone, Ganzhou city, JiangXi Province , China
ganzhou jiangxi 341700
CN

8C-4C-AD (hex) Evoluzn Inc.
8C4CAD (base 16) Evoluzn Inc.
34 Samoset Lane
Schaumburg IL 60193
US

8C-F9-57 (hex) RuiXingHengFang Network (Shenzhen) Co.,Ltd
8CF957 (base 16) RuiXingHengFang Network (Shenzhen) Co.,Ltd
Room 507, 2nd tower of KangTai biological building NO.6 KeFa Rd. NanShan District
Shenzhen Guangdong 518057
CN

0C-C6-CC (hex) HUAWEI TECHNOLOGIES CO.,LTD
0CC6CC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

78-58-60 (hex) HUAWEI TECHNOLOGIES
CO.,LTD
785860 (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

4C-77-6D (hex) Cisco Systems, Inc
4C776D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

3C-DC-BC (hex) Samsung Electronics Co.,Ltd
3CDCBC (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

80-4E-70 (hex) Samsung Electronics Co.,Ltd
804E70 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D4-E6-B7 (hex) Samsung Electronics Co.,Ltd
D4E6B7 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

74-E1-82 (hex) Texas Instruments
74E182 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

E8-DE-FB (hex) MESOTIC SAS
E8DEFB (base 16) MESOTIC SAS
11, Avenue de la Division Leclerc
Cachan
94230
FR

C4-00-AD (hex) Advantech Technology (CHINA) Co., Ltd.
C400AD (base 16) Advantech Technology (CHINA) Co., Ltd.
No.666, Han-Pu Rd. Yu-Shan
Kun-Shan Jiang Su 215316
CN

94-FE-9D (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT

94FE9D (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT
SONGGANG
SHENZHEN GUANGDONG 518105
CN

6C-B6-CA (hex) DIVUS GmbH
6CB6CA (base 16) DIVUS GmbH
Pillhof 51
Eppan 39057
IT

04-D1-3A (hex) Xiaomi Communications Co Ltd
04D13A (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

6C-C4-D5 (hex) HMD Global Oy
6CC4D5 (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

80-C5-48 (hex) Shenzhen Zowee Technology Co.,Ltd
80C548 (base 16) Shenzhen Zowee Technology Co.,Ltd
NO.5 Zowee technology building, Science & Technology industrial park of privately
Science & Technology industrial park of privately owned enterprises
Shenzhen GuangDong 518055
CN

00-24-AF (hex) Dish Technologies Corp
0024AF (base 16) Dish Technologies Corp
94 Inverness Terrace E
Englewood CO 80112
US

C0-A8-F0 (hex) Adamson Systems Engineering
C0A8F0 (base 16) Adamson Systems Engineering
1401 Scugog Line 6
Port Perry Ontario L9L 1B2
CA

9C-43-1E (hex) IEEE Registration Authority
9C431E (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

4C-C2-06 (hex) Somfy
4CC206 (base 16) Somfy
50 avenue du nouveau monde
Cluses 74300
FR

04-09-73 (hex) Hewlett Packard Enterprise
040973 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

34-99-D7 (hex) Universal Flow Monitors, Inc.
3499D7 (base 16) Universal Flow Monitors, Inc.
1755 E. Nine Mile Rd.
Hazel Park MI 48030
US

0C-8B-D3 (hex) ITEL
MOBILE LIMITED
0C8BD3 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

E8-AB-F3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E8ABF3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

44-9E-F9 (hex) vivo Mobile Communication Co., Ltd.
449EF9 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

B4-E9-A3 (hex) port industrial automation GmbH
B4E9A3 (base 16) port industrial automation GmbH
Regensburger Str. 7b
Halle (S.) 06132
DE

6C-2A-CB (hex) Paxton Access Ltd
6C2ACB (base 16) Paxton Access Ltd
Paxton House
Brighton East Sussex BN1 9HU
GB

98-00-74 (hex) Raisecom Technology CO., LTD
980074 (base 16) Raisecom Technology CO., LTD
No. 11, East Area, No. 10
Block, East Xibeiwang Road
Beijing 100094
CN

18-C1-9D (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
18C19D (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

0C-98-38 (hex) Xiaomi Communications Co Ltd
0C9838 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

28-2C-02 (hex) IEEE Registration Authority
282C02 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

58-3B-D9 (hex) Fiberhome Telecommunication Technologies Co.,LTD
583BD9 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

FC-A1-83 (hex) Amazon Technologies Inc.
FCA183 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno 89507
US

C4-84-66 (hex) Apple, Inc.
C48466 (base
16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

34-7C-25 (hex) Apple, Inc.
347C25 (base 16) Apple, Inc.
1 Infinite Loop

Cupertino CA 95014
US

CC-2D-B7 (hex) Apple, Inc.
CC2DB7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

DC-A2-66 (hex) Hon Hai Precision Ind. Co.,Ltd.
DCA266 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

A0-BD-CD (hex) SKY UK LIMITED
A0BDCD (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

BC-91-B5 (hex) Infinix mobility limited
BC91B5 (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

74-EA-CB (hex) New H3C Technologies Co., Ltd
74EACB (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang
310052
CN

5C-86-5C (hex) Samsung Electronics Co.,Ltd
5C865C (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

04-F1-28 (hex) HMD Global Oy
04F128 (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

D4-1A-3F (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD

D41A3F (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

30-C5-07 (hex) ECI Telecom Ltd.
30C507 (base 16) ECI Telecom Ltd.
30 Hasivim St.
Petah Tikva 49133
IL

28-2F-C2 (hex) Automotive Data Solutions
282FC2 (base 16) Automotive Data Solutions
8400 rue Bougainville
Montreal Quebec H4P2G1
CA

44-AD-19 (hex) XINGFEI H.KLIMITED
44AD19 (base 16) XINGFEI H.KLIMITED
6/F North Tower Wandelai Building No.29 Kejinan 6th Road, Nanshan District,Shenzhen,China
Shenzhen 518057
CN

00-0F-9B
(hex) Ross Video Limited
000F9B (base 16) Ross Video Limited
8 John Street
Iroquois Ontario K0E 1K0
CA

00-24-BA (hex) Texas Instruments
0024BA (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

60-51-2C (hex) TCT mobile ltd
60512C (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

64-DB-81 (hex) Syszone Co., Ltd.
64DB81 (base 16) Syszone Co., Ltd.
9F Garak, 310 Ogeum-ro
Seoul Seoul, Korea 138-716
KR

38-17-C3 (hex) Hewlett Packard Enterprise
3817C3 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

1C-DF-52 (hex) Texas Instruments
1CDF52 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

04-B1-67 (hex) Xiaomi Communications Co Ltd
04B167 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68,
Qinghe Middle Street Haidian District, Beijing 100085
CN

EC-83-50 (hex) Microsoft Corporation
EC8350 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

5C-AD-76 (hex) Shenzhen TCL New Technology Co., Ltd
5CAD76 (base 16) Shenzhen TCL New Technology Co., Ltd
B area,10 Floor, TCL Multimedia Building, TCL International E city, #1001 Zhongshan Park Road, Nanshan District
Shenzhen Guangdong 518052
CN

64-6E-6C (hex) Radio Datacom LLC
646E6C (base 16) Radio Datacom LLC
9601 N 35th St
Phoenix AZ 85028
US

E8-8E-60 (hex) NSD Corporation
E88E60 (base 16) NSD Corporation
Osu 3-31-28
Nagoya Aichi 460-8302
JP

38-AD-BE (hex) New H3C Technologies Co., Ltd
38ADBE (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052

CN

0C-52-03 (hex) AGM GROUP LIMITED
0C5203 (base 16) AGM GROUP LIMITED
4F,Building
B,HuaFeng Ind park,Gushu,Xixiang,BaoAn,ShenZhen,China
ShenZhen GuangDong 518100
CN

2C-54-91 (hex) Microsoft Corporation
2C5491 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

C8-45-8F (hex) Wyler AG
C8458F (base 16) Wyler AG
Im Hoelderli 13
Winterthur ZH 8405
CH

00-1B-B9 (hex) Elitegroup Computer Systems Co.,Ltd.
001BB9 (base 16) Elitegroup Computer Systems Co.,Ltd.
No.22, Alley 38, Lane 91 , Sec. 1 , Nei Hu Road
Taipei 114
TW

00-24-61 (hex) Shin Wang Tech.
002461 (base 16) Shin Wang Tech.
632-62, Guro-Dong, Guro-Gu
Seoul 152-866
KR

E4-A7-A0 (hex) Intel Corporate
E4A7A0 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

38-D7-CA (hex) 7HUGS LABS
38D7CA (base 16) 7HUGS LABS
29 bd Romain Rolland
Montrouge 92120
FR

5C-E2-8C (hex) Zyxel Communications Corporation
5CE28C (base 16) Zyxel

Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

E4-BD-4B (hex) zte corporation
E4BD4B (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

00-1E-1D (hex) East Coast Datacom, Inc.
001E1D (base 16) East Coast Datacom, Inc.
245 Gus Hipp Blvd., STE 3
Rockledge FL 32955
US

78-46-C4 (hex) DAEHAP HYPER-TECH
7846C4 (base 16) DAEHAP HYPER-TECH
#A-805, Woolim Lions Vally 5-cha, #144-3 Sangdaewon-dong, Jungwon-Gu
Seongnam 462-726
US

00-01-44 (hex) Dell EMC
000144 (base 16) Dell EMC
228 South St.
Hopkinton MA 01748
US

08-00-1B (hex) Dell EMC
08001B (base 16) Dell EMC
176 South Street
Hopkinton MA 01748
US

7C-01-0A (hex) Texas Instruments
7C010A (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

70-1F-53 (hex) Cisco Systems, Inc
701F53
(base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

18-39-6E (hex) SUNSEA TELECOMMUNICATIONS CO.,LTD.
18396E (base 16) SUNSEA TELECOMMUNICATIONS CO.,LTD.
High tech Industrial Park,Longhua District of Shenzhen City,South central concept
Shenzhen 518110
CN

EC-7D-11 (hex) vivo Mobile Communication Co., Ltd.
EC7D11 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

A0-4E-A7 (hex) Apple, Inc.
A04EA7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-98-9D (hex) Apple, Inc.
F0989D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E4-2B-34 (hex) Apple, Inc.
E42B34 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

3C-2E-F9 (hex) Apple, Inc.
3C2EF9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

FC-D6-BD (hex) Robert
Bosch GmbH
FCD6BD (base 16) Robert Bosch GmbH
AE-BE/EKE
Leonberg BW 71206
DE

0C-1C-20 (hex) Kakao Corp
0C1C20 (base 16) Kakao Corp
242, Cheomdan-ro
Jeju-si Jeju-do 63309
KR

94-28-2E (hex) New H3C Technologies Co., Ltd
94282E (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

68-3C-7D (hex) Magic Intelligence Technology Limited
683C7D (base 16) Magic Intelligence Technology Limited
B13/Flat 4,East block,Jinhui Blding.Nanhai Road
Nanshan District, Shenzhen guangdong 518000
CN

74-BB-D3 (hex) Shenzhen xeme Communication Co., Ltd.
74BBD3 (base 16) Shenzhen xeme Communication Co., Ltd.
303,Block D,Huayuan technology innovation park,Bao Yuen road,Xixiang street,Baoan District
Shenzhen Guangdong 518102
CN

D8-08-31 (hex) Samsung Electronics Co.,Ltd
D80831 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi
Gyeongbuk 730-350
KR

48-BA-4E (hex) Hewlett Packard
48BA4E (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

94-41-C1 (hex) Mini-Cam Limited
9441C1 (base 16) Mini-Cam Limited
Unit 4 Yew Tree Way
Warrington Cheshire WA33JD
GB

18-52-82 (hex) Fiberhome Telecommunication Technologies Co.,LTD
185282 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

50-0F-80 (hex) Cisco Systems, Inc
500F80 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568

US

50-4E-DC (hex) Ping Communication
504EDC (base 16) Ping Communication
Brenden 18
Appenzell Meistersrüte AI 9050
CH

08-67-4E (hex) Hisense broadband multimedia technology Co.,Ltd
08674E (base 16) Hisense broadband multimedia technology Co.,Ltd
Song ling Road 399
Qingdao 266000
CN

8C-3C-4A (hex) NAKAYO Inc
8C3C4A
(base 16) NAKAYO Inc
Development Support Center 165 Higashiomuro-machi
Maebashi-shi Gunma 379-2105
JP

70-86-C1 (hex) Texas Instruments
7086C1 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

10-F1-F2 (hex) LG Electronics (Mobile Communications)
10F1F2 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

8C-68-C8 (hex) zte corporation
8C68C8 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

EC-82-63 (hex) zte corporation
EC8263 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

98-F5-A9 (hex) OHSUNG
98F5A9 (base 16) OHSUNG
181

GUMI KYUNGBUK 730-030
KR

6C-B7-49 (hex) HUAWEI TECHNOLOGIES CO.,LTD
6CB749 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan
Lake Technology Park
Dongguan 523808
CN

98-9C-57 (hex) HUAWEI TECHNOLOGIES CO.,LTD
989C57 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F4-D7-B2 (hex) LGS Innovations, LLC
F4D7B2 (base 16) LGS Innovations, LLC
13665 Dulles Technology Drive
Herndon VA 20171
US

00-15-2A (hex) Nokia Corporation
00152A (base 16) Nokia Corporation
Rensingstraße 15
Bochum NRW 44807
DE

9C-4A-7B (hex) Nokia Corporation
9C4A7B (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu Ou 90590
FI

2C-D2-E7 (hex) Nokia Corporation
2CD2E7 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu Ou 90590
FI

48-EC-5B (hex) Nokia Solutions and Networks GmbH & Co. KG
48EC5B (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

D8-61-62 (hex) Wistron Neweb

Corporation
D86162 (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

DC-6A-EA (hex) Infinix mobility limited
DC6AEA (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

38-6E-A2 (hex) vivo Mobile Communication Co., Ltd.
386EA2 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

98-2D-68 (hex) Samsung Electronics Co., Ltd
982D68 (base 16) Samsung Electronics Co., Ltd
Samsung 1-ro
Hwaseong-si Gyeonggi-do 445330
KR

44-4A-B0 (hex) Zhejiang Moorgen Intelligence Technology Co., Ltd
444AB0 (base 16) Zhejiang Moorgen Intelligence Technology Co., Ltd
No.181 Changluo road Luotuo street Zhenhai district
Ningbo Zhejiang 315202
CN

80-73-9F (hex) KYOCERA CORPORATION
80739F (base
16) KYOCERA CORPORATION
2-1-1 Kagahara
Yokohama-shi Kanagawa 224-8502
JP

28-84-0E (hex) silicon valley immigration service
28840E (base 16) silicon valley immigration service
1410 Sharp Ave,
Campbell CA 95008
US

08-00-70 (hex) Mitsubishi Precision Co.,LTd.
080070 (base 16) Mitsubishi Precision Co.,LTd.
325 KAMIMACHIYA
000 00

JP

C4-21-C8 (hex) KYOCERA CORPORATION
C421C8 (base 16) KYOCERA CORPORATION
2-1-1,Kagahara,
Yokohama-shi Kanagawa 224-8502
JP

EC-EB-B8 (hex) Hewlett Packard Enterprise
ECEBB8 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

80-61-5F (hex) Beijing Sinead Technology Co., Ltd.
80615F (base 16) Beijing Sinead Technology Co., Ltd.
Room 504,Block A, New material Building, Yongfeng industrial, Haiding District, Beijing.China
Beijing Beijing 100094
CN

BC-2E-48 (hex) ARRIS Group, Inc.
BC2E48 (base
16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

60-8C-E6 (hex) ARRIS Group, Inc.
608CE6 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

34-00-8A (hex) IEEE Registration Authority
34008A (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

90-50-CA (hex) Hitron Technologies. Inc
9050CA (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

40-99-22 (hex) AzureWave Technology Inc.
409922 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.

New Taipei City Taiwan 231
TW

C0-6D-1A (hex) Tianjin Henxinhuifeng Technology Co.,Ltd.
C06D1A (base 16) Tianjin Henxinhuifeng Technology Co.,Ltd.
Rm 233, Tianjin Technology Innovation Service Center, 12 Keyan West Road, Nankai District, Tianjin, P.R.C.
Tianjin Tianjin 300192
CN

10-7B-44
(hex) ASUSTek COMPUTER INC.
107B44 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

A4-11-15 (hex) Robert Bosch Engineering and Business Solutions pvt. Ltd.
A41115 (base 16) Robert Bosch Engineering and Business Solutions pvt. Ltd.
123, Industrial Layout, Hosur Road, Koramangala,
Bangalore Karnataka 560095
IN

F4-F3-AA (hex) JBL GmbH & Co. KG
F4F3AA (base 16) JBL GmbH & Co. KG
Dieselstrasse 3
Neuhofen 67141
DE

40-A3-CC (hex) Intel Corporate
40A3CC (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

84-25-3F (hex) silex technology, Inc.
84253F (base 16) silex technology, Inc.
2-3-1 Hikaridai
Seika-cho Kyoto 619-0237
JP

00-08-C9 (hex) TechniSat Digital GmbH Daun
0008C9 (base 16) TechniSat Digital GmbH Daun
Gewerbepark Merbitz Nr. 5
Dresden 01156
US

D8-B1-2A (hex) Panasonic Mobile

Communications Co.,Ltd.
D8B12A (base 16) Panasonic Mobile Communications Co.,Ltd.
600 Saedo-cho Tsuzuki-ku
Yokohama City Kanagawa 224-8539
JP

70-58-12 (hex) Panasonic Corporation AVC Networks Company
705812 (base 16) Panasonic Corporation AVC Networks Company
1-15 Matsuo-cho
Kadoma Osaka 571-8504
JP

04-20-9A (hex) Panasonic Corporation AVC Networks Company
04209A (base 16) Panasonic Corporation AVC Networks Company
1-15 Matsuo-cho
Kadoma City Osaka 571-8504
JP

40-D6-3C (hex) Equitech Industrial(DongGuan)Co.,Ltd
40D63C (base 16) Equitech Industrial(DongGuan)Co.,Ltd
4F Building B No.2 ShiChang Road SongYuan Technology Park,DongCheng District
DongGuan GuangDong 523122
CN

AC-51-2C (hex) Infinix mobility limited
AC512C (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

B0-19-C6
(hex) Apple, Inc.
B019C6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

38-66-F0 (hex) Apple, Inc.
3866F0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E4-FB-5D (hex) HUAWEI TECHNOLOGIES CO.,LTD
E4FB5D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

E8-68-19 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E86819 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-11-C0 (hex) Aday Technology Inc
0011C0 (base 16) Aday Technology Inc
9F.-3, No. 247, Sec. 1, Taichung Port Rd.,
Taichung City 403
TW

00-05-F1 (hex) Vrcom, Inc.
0005F1 (base 16) Vrcom, Inc.
401, Songam Bldg, 479-1,
Seoul
KR

1C-AB-34 (hex) New H3C Technologies Co., Ltd
1CAB34 (base 16) New H3C Technologies Co., Ltd
466 Changhe
Road, Binjiang District
Hangzhou Zhejiang 310052
CN

3C-78-43 (hex) HUAWEI TECHNOLOGIES CO.,LTD
3C7843 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

5C-09-79 (hex) HUAWEI TECHNOLOGIES CO.,LTD
5C0979 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

30-99-35 (hex) zte corporation
309935 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

0C-72-D9 (hex) zte corporation
0C72D9 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China

shenzhen guangdong 518057
CN

00-30-C8 (hex) GAD LINE, LTD.
0030C8 (base 16) GAD LINE, LTD.
BEIT ROKAR HAR HOTZVIM

IL

00-16-E0 (hex) 3Com Ltd
0016E0 (base 16) 3Com Ltd
Peoplebuilding 2
Hemel Hempstead
Herts HP2 4NW
GB

D8-DE-CE (hex) ISUNG CO.,LTD
D8DECE (base 16) ISUNG CO.,LTD
92, Huimanggongwon-ro
Siheung-si Kyunggido 429-859
KR

80-19-34 (hex) Intel Corporate
801934 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

70-3E-AC (hex) Apple, Inc.
703EAC (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

50-64-2B (hex) XIAOMI Electronics,CO.,LTD
50642B (base 16) XIAOMI Electronics,CO.,LTD
Xiaomi Building, No.68 Qinghe Middle Street
Haidian District Beijing 100085
CN

30-C0-1B (hex) Shenzhen Jingxun Software Telecommunication Technology Co.,Ltd
30C01B (base 16) Shenzhen Jingxun Software Telecommunication Technology Co.,Ltd
3/F,A5 Building Zhiyuan Community No.1001,Xueyuan Road Nanshan District
Shenzhen Guangdong 518055
CN

8C-3B-AD (hex) NETGEAR
8C3BAD (base 16) NETGEAR

350 East Plumeria Drive
San Jose CA 95134
US

64-32-A8
(hex) Intel Corporate
6432A8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

74-7D-24 (hex) Phicomm (Shanghai) Co., Ltd.
747D24 (base 16) Phicomm (Shanghai) Co., Ltd.
3666 SiXian Rd.,Songjiang District
Shanghai Shanghai 201616
CN

64-CF-D9 (hex) Texas Instruments
64CFD9 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

00-80-09 (hex) JUPITER SYSTEMS, INC.
008009 (base 16) JUPITER SYSTEMS, INC.
3073 TEAGARDEN STREET
SAN LEANDRO CA 94577-5720
US

00-C0-64 (hex) General Datacomm LLC
00C064 (base 16) General Datacomm LLC
353 Christian Street, Suite 4
Oxford CT 06478
US

F4-B5-20 (hex) Biostar Microtech international corp.
F4B520 (base 16) Biostar Microtech international corp.
3F. No. 108-2 Min Chuan Road, Hsin Tien District
New Taipei City Taiwan 231
TW

88-86-C2 (hex) STABILO International GmbH
8886C2 (base
16) STABILO International GmbH
Schwanweg 1
Heroldsberg 90562
DE

88-7A-31 (hex) Velankani Electronics Pvt. Ltd.
887A31 (base 16) Velankani Electronics Pvt. Ltd.
43, Electronics City, Phase 1, Hosur road
Bangalore Karnataka 560100
IN

8C-0F-6F (hex) PEGATRON CORPORATION
8C0F6F (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

8C-25-05 (hex) HUAWEI TECHNOLOGIES CO.,LTD
8C2505 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

08-A8-A1 (hex) Cyclotronics Power Concepts, Inc
08A8A1 (base 16) Cyclotronics Power Concepts, Inc
PO Box 37449
Houston TX 77237-7449
US

BC-96-80 (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
BC9680 (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT
B116,B118,A211-A213,B201-B213,A311-A313,B411-413,BF08-09 Nanshan Medical Instrument Industry Park,
Shenzhen
Guangdong 518067
CN

A4-7B-9D (hex) Espressif Inc.
A47B9D (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

7C-2E-DD (hex) Samsung Electronics Co.,Ltd
7C2EDD (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

3C-F7-A4 (hex) Samsung Electronics Co.,Ltd
3CF7A4 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

CC-2F-71 (hex) Intel Corporate
CC2F71 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B8-F8-BE (hex) BLUECOM
B8F8BE (base 16) BLUECOM
116, Venture-ro, Yeonsu-gu,
Incheon 406-840
KR

2C-5D-93 (hex) Ruckus Wireless
2C5D93 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

00-00-FE (hex) Annapolis Micro Systems, Inc.
0000FE (base 16) Annapolis Micro Systems, Inc.
190
ADMIRAL COCHRANE DRIVE
ANNAPOLIS MD 21401
US

38-E5-95 (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
38E595 (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT
B116,B118,A211-A213,B201-B213,A311-A313,B411-413,BF08-09 Nanshan Medical Instrument Industry Park,
Shenzhen Guangdong 518067
CN

38-FF-36 (hex) Ruckus Wireless
38FF36 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

84-18-3A (hex) Ruckus Wireless
84183A (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

24-C9-A1 (hex) Ruckus Wireless
24C9A1 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089

US

00-24-82 (hex) Ruckus Wireless
002482 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

10-30-34 (hex) Cara Systems
103034 (base 16) Cara Systems
Ruzgarlibahce Mah. Kavak Sok. No: 31/1 Smart Plaza B Blok Kat: 4
Istanbul Kavacik Beykoz 23805
TR

70-6E-6D
(hex) Cisco Systems, Inc
706E6D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-D0-1F (hex) Senetas Corporation Ltd
00D01F (base 16) Senetas Corporation Ltd
1/11 Queens Road
consolidation consolidation
AU

64-47-E0 (hex) Feitian Technologies Co., Ltd
6447E0 (base 16) Feitian Technologies Co., Ltd
Floor 17, Tower B, Huizhi Mansion, No.9 Xueqing Rd, Haidian District
Beijing 100085
CN

B0-DF-C1 (hex) Tenda Technology Co.,Ltd.Dongguan branch
B0DFC1 (base 16) Tenda Technology Co.,Ltd.Dongguan branch
Room 79,Yuanyi Road,Dalang Town,Dongguan Guangdong 523770
Dongguan Guangdong 523770
CN

9C-6F-52 (hex) zte corporation
9C6F52 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

60-47-62 (hex) Beijing Sensoro Technology Co.,Ltd.
604762 (base 16) Beijing Sensoro Technology Co.,Ltd.
Room

2807, Building 1B, Wangjing SOHO, No10 Wangjing Street, Chaoyang District, Beijing, China
Beijing Beijing 100102 PRC
CN

68-92-34 (hex) Ruckus Wireless
689234 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

50-A7-33 (hex) Ruckus Wireless
50A733 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

E8-6D-65 (hex) AUDIO MOBIL Elektronik GmbH
E86D65 (base 16) AUDIO MOBIL Elektronik GmbH
Audio-Mobil-Straße 5 - 7
Braunau am Inn - Ranshofen 5282
AT

BC-1C-81 (hex) Sichuan iLink Technology Co., Ltd.
BC1C81 (base 16) Sichuan iLink Technology Co., Ltd.
Anzhou,Industrial park,Mianyang,Sichuan
Mianyang 622651
CN

90-0A-1A (hex) Taicang T&W Electronics
900A1A (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

50-6E-92 (hex) Innocent Technology Co., Ltd.
506E92 (base 16) Innocent Technology Co.,
Ltd.
PROSIT AZUMA 3 #201, 1973, NIPPA-CHO, KOHOKU-KU,
YOKOHAMA-SHI KANAGAWA 2230057
JP

30-FE-31 (hex) Nokia
30FE31 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

98-F2-B3 (hex) Hewlett Packard Enterprise

98F2B3 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

E8-E1-E1 (hex) Gemtek Technology Co., Ltd.
E8E1E1 (base 16) Gemtek Technology Co., Ltd.
No.15-1 Zhonghua Road
Hukou Hsinchu 30352
TW

28-07-0D (hex) GUANGZHOU WINSOUND INFORMATION TECHNOLOGY CO.,LTD.
28070D (base 16) GUANGZHOU WINSOUND INFORMATION TECHNOLOGY CO.,LTD.
Building1 NO.13 DABU ROAD HUADU DISTRICT
GUANGZHOU GUANGDONG 510800
CN

B4-4F-96 (hex) Zhejiang Xinzailing Technology co., ltd
B44F96 (base 16) Zhejiang Xinzailing Technology co., ltd
No.1805, Dongliu Road, Binjiang District
Hangzhou Zhejiang 310051
CN

4C-65-A8 (hex) IEEE Registration Authority
4C65A8
(base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

D8-22-F4 (hex) Avnet Silica
D822F4 (base 16) Avnet Silica
16 av carnot
Massy 91349
FR

34-8F-27 (hex) Ruckus Wireless
348F27 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

2C-9E-EC (hex) Jabil Circuit Penang
2C9EEC (base 16) Jabil Circuit Penang
Plot 56 , Hilir Sungai Keluang 1, Bayan Lepas Industrial Park, Phase 4
George Town Penang 11900
MY

C4-57-1F (hex) June Life Inc
C4571F (base 16) June Life Inc
649 Front Street
San Francisco CA 94111
US

88-6A-E3 (hex) Alpha Networks Inc.
886AE3 (base 16) Alpha Networks Inc.
No.8 Li-shing 7th Rd., Science-based Industrial Park, Hsinchu, Taiwan, R.O.C
Hsinchu Taiwan 300
TW

1C-4D-70 (hex) Intel Corporate
1C4D70 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

60-31-3B
(hex) Sunnovo International Limited
60313B (base 16) Sunnovo International Limited
1717 Haitai Building
Beijing Beijing 100083
CN

6C-B2-27 (hex) Sony Video & Sound Products Inc.
6CB227 (base 16) Sony Video & Sound Products Inc.
Sony City Osaki, 2-10-1 Osaki
Shinagawa-ku Tokyo 141-8610
JP

00-0C-AB (hex) Commend International GmbH
000CAB (base 16) Commend International GmbH
Hoelzlstrasse 561
Wals Salzburg A-5071
AT

00-A3-D1 (hex) Cisco Systems, Inc
00A3D1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1C-FA (hex) Alarm.com
001CFA (base 16) Alarm.com
8150 Leesburg Pike
Vienna VA 22182
US

98-6F-60 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
986F60 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

B0-DA-F9 (hex) ARRIS Group, Inc.
B0DAF9 (base 16) ARRIS
Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

18-35-D1 (hex) ARRIS Group, Inc.
1835D1 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

74-54-27 (hex) SHENZHEN FAST TECHNOLOGIES CO.,LTD
745427 (base 16) SHENZHEN FAST TECHNOLOGIES CO.,LTD
Room 202,Building No.5,Section 30,No.2 of Kefa Road,Nanshan District,Shenzhen,P.R.China
Shenzhen Guangdong 518057
CN

60-72-0B (hex) BLU Products Inc
60720B (base 16) BLU Products Inc
10814 NW 33rd Street
Miami FL 33172
US

30-89-76 (hex) DALIAN LAMBA TECHNOLOGY CO.,LTD
308976 (base 16) DALIAN LAMBA TECHNOLOGY CO.,LTD
Dalian Hi-tech Zone Keypark Room 1201
Dalian Liaoning 116000
CN

2C-26-17 (hex) Oculus VR, LLC
2C2617 (base 16) Oculus VR, LLC
1 Hacker Way
Menlo Park CA 94025
US

FC-06-ED (hex) M2Motive Technology Inc.
FC06ED (base 16) M2Motive Technology Inc.
Room 148, Lane 999, new two

road, Baoshan District
Shanghai Shanghai 200439
CN

34-D9-54 (hex) WiBotic Inc.
34D954 (base 16) WiBotic Inc.
4000 15th Ave NE Lab 225, Fluke Hall, Box 352141
Seattle WA 98195
US

48-57-DD (hex) Facebook Inc
4857DD (base 16) Facebook Inc
1 Hacker Way
Menlo Park 94025
US

48-7D-2E (hex) TP-LINK TECHNOLOGIES CO.,LTD.
487D2E (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

A0-09-4C (hex) CenturyLink
A0094C (base 16) CenturyLink
100 CenturyLink Drive
Monroe 71203
US

F0-74-85 (hex) NGD Systems, Inc.
F07485 (base 16) NGD Systems, Inc.
355 Goddard, Suite 200
Irvine CA 92618
US

48-8D-36 (hex) Arcadyan Corporation
488D36 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

BC-D7-13 (hex) Owl Labs
BCD713
(base 16) Owl Labs
33-1/2 Union Square
Somerville MA 02143
US

F0-D4-F6 (hex) Lars Thrane A/S

F0D4F6 (base 16) Lars Thrane A/S
Stubbeled 2
Vedbæk 2950
DK

F4-A9-97 (hex) CANON INC.
F4A997 (base 16) CANON INC.
30-2 Shimomaruko 3-chome,
Ohta-ku Tokyo 146-8501
JP

FC-4D-8C (hex) SHENZHEN PANTE ELECTRONICS TECHNOLOGY CO., LTD
FC4D8C (base 16) SHENZHEN PANTE ELECTRONICS TECHNOLOGY CO., LTD
Building 5,Hui Mingsheng industrial park,Tongfu Rd,Fu Yong street
Shenzhen Guangdong 518042
CN

64-DF-E9 (hex) ATEME
64DFE9 (base 16) ATEME
6 rue Dewoitine
Vélizy-Villacoublay 78140
FR

B4-39-34 (hex) Pen Generations, Inc.
B43934 (base 16) Pen Generations, Inc.
8th FL., SOLiD Space,
Seongnam-si Gyeonggi-do 463-400
KR

74-26-AC (hex) Cisco Systems, Inc
7426AC (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

10-C6-FC (hex) Garmin
International
10C6FC (base 16) Garmin International
1200 East 151st Street
Olathe KS 66062
US

AC-22-05 (hex) Compal Broadband Networks, Inc.
AC2205 (base 16) Compal Broadband Networks, Inc.
13F., No.1, Taiyuan 1st St.
Zhubei City Hsinchu County 30265
TW

80-A0-36 (hex) Shanghai MXCHIP Information Technology Co., Ltd.
80A036 (base 16) Shanghai MXCHIP Information Technology Co., Ltd.
9th Floor, No. 5 Building, 2145 Jinshajiang Rd., Putuo District
Shanghai 200333
CN

10-58-87 (hex) Fiberhome Telecommunication Technologies Co.,LTD
105887 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

B0-26-28 (hex) Broadcom Limited
B02628 (base 16) Broadcom Limited
5300 California Ave.
irvine CA 92617
US

98-74-DA (hex) Infinix mobility limited
9874DA (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE
CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

50-33-8B (hex) Texas Instruments
50338B (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

9C-06-1B (hex) Hangzhou H3C Technologies Co., Limited
9C061B (base 16) Hangzhou H3C Technologies Co., Limited
466 Changhe Road, Binjiang District
Hangzhou Zhejiang, P.R.China 310052
CN

20-F4-52 (hex) Shanghai IUV Software Development Co. Ltd
20F452 (base 16) Shanghai IUV Software Development Co. Ltd
No.18, Lane 1387 Zhangdong Rd, Pudong, Shanghai, P.R.C
shanghai shanghai 201203
CN

14-3F-27 (hex) Noccela Oy
143F27 (base 16) Noccela Oy
Kaarinantie 700
Turku 20540
FI

68-02-35 (hex) Konten Networks Inc.
680235 (base 16) Konten Networks Inc.
7F-1, No.108, Minquan Rd., Xindian Dist.,
New Taipei City Taiwan 231
TW

E8-DE-8E (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
E8DE8E
(base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

D8-C0-6A (hex) Hunantv.com Interactive Entertainment Media Co.,Ltd.
D8C06A (base 16) Hunantv.com Interactive Entertainment Media Co.,Ltd.
Floor 2U, Hunan International Exhibition Center, Kaifu District, Changsha City, Hunan Province, P.R.C.
Changsha Hunan 410000
CN

1C-5A-0B (hex) Tegile Systems
1C5A0B (base 16) Tegile Systems
7999 Gateway Blvd Suite 120
Newark CA 94560
US

04-6E-02 (hex) OpenRTLS Group
046E02 (base 16) OpenRTLS Group
De Nieuwe Ploeg 5
Berlicum 5258 EX
NL

90-0E-83 (hex) Monico Monitoring, Inc.
900E83 (base 16) Monico Monitoring, Inc.
18530 Klein Church Rd
Spring TX 77379
US

60-14-66 (hex) zte corporation
601466 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

AC-20-2E
(hex) Hitron Technologies. Inc
AC202E (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C

Hsin-chu Taiwan 300
TW

D8-D8-66 (hex) SHENZHEN TOZED TECHNOLOGIES CO.,LTD.
D8D866 (base 16) SHENZHEN TOZED TECHNOLOGIES CO.,LTD.
4F/A1,A2,TIANJI BUILDING,TIAN'AN CYBER PARK,FUTIAN
SHENZHEN GUANGDONG 518040
CN

68-54-ED (hex) Alcatel-Lucent
6854ED (base 16) Alcatel-Lucent
777 E. Middlefield Rd
Mountain View CA 94043
US

38-AC-3D (hex) Nephos Inc
38AC3D (base 16) Nephos Inc
2840 Junction Ave. ,
San Jose CA 95134
US

38-F1-35 (hex) SensorTec-Canada
38F135 (base 16) SensorTec-Canada
1Yonge Street, Suite 1801
Toronto ON M5E 1W7
CA

AC-74-09 (hex) Hangzhou H3C Technologies Co., Limited
AC7409 (base 16) Hangzhou H3C Technologies Co., Limited
466 Changhe Road, Binjiang District
Hangzhou Zhejiang, P.R.China 310052
CN

E0-37-BF
(hex) Wistron Neweb Corporation
E037BF (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

E8-13-67 (hex) AIRSOUND Inc.
E81367 (base 16) AIRSOUND Inc.
515-ho,75,Techno-1ro,Yuseoung-gu
Daejeon 34014
KR

F4-03-43 (hex) Hewlett Packard Enterprise
F40343 (base 16) Hewlett Packard Enterprise

8000 Foothills Blvd.
Roseville CA 95747
US

C4-9D-ED (hex) Microsoft Corporation
C49DED (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

98-A4-0E (hex) Snap, Inc.
98A40E (base 16) Snap, Inc.
64 Market Street
Venice CA 90291
US

F0-93-C5 (hex) Garland Technology
F093C5 (base 16) Garland Technology
2130 Oak Bend Lane
Garland TX 75040
US

98-10-E8 (hex) Apple, Inc.
9810E8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C0-D0-12 (hex) Apple, Inc.
C0D012
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

BC-A9-20 (hex) Apple, Inc.
BCA920 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-11-92 (hex) Cisco Systems, Inc
001192 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

80-58-F8 (hex) Motorola Mobility LLC, a Lenovo Company

8058F8 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

48-A1-95 (hex) Apple, Inc.
48A195 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F8-03-77 (hex) Apple, Inc.
F80377 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F4-96-34 (hex) Intel Corporate
F49634 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

A4-11-63 (hex) IEEE Registration Authority
A41163 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway
NJ 08554
US

E8-D1-1B (hex) ASKEY COMPUTER CORP
E8D11B (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

C4-D1-97 (hex) Ventia Utility Services
C4D197 (base 16) Ventia Utility Services
Level 4, Tower 1, 495 Victoria Avenue
Chatswood NSW 2067
AU

70-AF-24 (hex) TP Vision Belgium NV
70AF24 (base 16) TP Vision Belgium NV
Technologiepark Zwijnaarde 19
Gent 9052
BE

0C-5F-35 (hex) Niagara Video Corporation
0C5F35 (base 16) Niagara Video Corporation
5627 Stoneridge Drive, Suite 316
Pleasanton CA 94588
US

7C-E9-7C (hex) ITEL MOBILE LIMITED
7CE97C (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

CC-BE-59 (hex) Calix Inc.
CCBE59 (base 16) Calix Inc.
2777 Orchard Pkwy
San Jose CA 95131
US

54-E1-AD (hex) LCFC(HeFei)
Electronics Technology co., ltd
54E1AD (base 16) LCFC(HeFei) Electronics Technology co., ltd
YunGu Road 3188-1
Hefei Anhui 230000
CN

DC-A4-CA (hex) Apple, Inc.
DCA4CA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

8C-8F-E9 (hex) Apple, Inc.
8C8FE9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

70-AF-25 (hex) Nishiyama Industry Co.,LTD.
70AF25 (base 16) Nishiyama Industry Co.,LTD.
177-2
Fuji Shizuoka 419-0205
JP

2C-86-D2 (hex) Cisco Systems, Inc
2C86D2 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

B8-F8-83 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
B8F883 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

DC-FE-18 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
DCFE18 (base 16) TP-LINK TECHNOLOGIES
CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

70-4F-57 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
704F57 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

00-19-12 (hex) Welcat Inc
001912 (base 16) Welcat Inc
East Tower 6F, Shinagawa Seaside, 4-12-8, Higashi Shinagawa, Shinagawa Section
Tokyo 140-0002
JP

98-00-C1 (hex) GuangZhou CREATOR Technology Co.,Ltd.(CHINA)
9800C1 (base 16) GuangZhou CREATOR Technology Co.,Ltd.(CHINA)
Level 3,Blg 6,No 9 Keji Yuan,LanYusi St,
GuangZhou GuangDong 510730
CN

98-D3-D2 (hex) MEKRA Lang GmbH & Co. KG
98D3D2 (base 16) MEKRA Lang GmbH & Co. KG
Buchheimerstr. 4
Ergersheim 91465
DE

90-3D-6B (hex) Zicon Technology Corp.
903D6B (base
16) Zicon Technology Corp.
15F., No.688-2, Zhongzheng Rd., Zhonghe City, Taipei County 235
Taipei 23586
TW

B0-C4-6C (hex) Senseit
B0C46C (base 16) Senseit
Suschevsky val 16 str. 4

Moscow Russian Federation 127018
RU

8C-78-D7 (hex) SHENZHEN FAST TECHNOLOGIES CO.,LTD
8C78D7 (base 16) SHENZHEN FAST TECHNOLOGIES CO.,LTD
Room 202,Building No.5,Section 30,No.2 of Kefa Road,Nanshan District,Shenzhen,P.R.China
Shenzhen Guangdong 518057
CN

B8-EA-AA (hex) ICG NETWORKS CO.,ltd
B8EAAA (base 16) ICG NETWORKS CO.,ltd
Room 2030Block BYamei ParkHaidian District
BEIJING 100010
CN

00-02-A1 (hex) World Wide Packets
0002A1 (base 16) World Wide Packets
PO Box 14645
Spokane WA 99214
US

00-E0-22 (hex) Analog Devices, Inc.
00E022 (base 16) Analog Devices, Inc.
Three Technology Way
Norwood MA 02062-2666
US

F8-A3-4F (hex) zte corporation
F8A34F (base 16) zte corporation
12/F.,zte
R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

C8-73-24 (hex) Sow Cheng Technology Co. Ltd.
C87324 (base 16) Sow Cheng Technology Co. Ltd.
No.26, Ln. 181, Xinsheng W. Rd., Dali Dist
Taichung 412
TW

4C-4E-03 (hex) TCT mobile ltd
4C4E03 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

50-E6-66 (hex) Shenzhen Techtion Electronics Co., Ltd.
50E666 (base 16) Shenzhen Techtion Electronics Co., Ltd.

Floor 2, C2 Building, Huafeng Industrial Park, Hangcheng Avenue, Gushu, Xixiang, Baoan
Shenzhen Guangdong 518102
CN

B0-40-89 (hex) Senient Systems LTD
B04089 (base 16) Senient Systems LTD
152 Morrison St
Edinburgh Other (Non US) EH3 8EB
GB

54-25-EA (hex) HUAWEI TECHNOLOGIES CO.,LTD
5425EA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology
Park
Dongguan 523808
CN

C8-94-BB (hex) HUAWEI TECHNOLOGIES CO.,LTD
C894BB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

10-B1-F8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
10B1F8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

08-9E-08 (hex) Google, Inc.
089E08 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

3C-7F-6F (hex) Telechips, Inc.
3C7F6F (base 16) Telechips, Inc.
19F~23F,Luther Bldg.42, Olympic-ro 35da-gil, Songpa-gu,
Seoul Seoul 05510
KR

28-FE-CD (hex) Lemobile Information Technology (Beijing) Co., Ltd.
28FECD (base 16) Lemobile Information Technology (Beijing) Co., Ltd.
5/F LeEco Building, 105 Yaojiayuan Road, Chaoyang District
Beijing Beijing 100025
CN

00-21-0D (hex) SAMSIN INNOTEC

00210D
(base 16) SAMSIN INNOTEC
SARIYUNDONG ILSANDONG-GU
GOYANG KYUNGGI 411530
KR

5C-BA-37 (hex) Microsoft Corporation
5CBA37 (base 16) Microsoft Corporation
31807 - 25th Ave SW
Federal Way 98023
US

00-C0-C6 (hex) PERSONAL MEDIA CORP.
00C0C6 (base 16) PERSONAL MEDIA CORP.
1-7-7 MY BLDG. HIRATSUKA

JP

B8-EC-A3 (hex) Zyxel Communications Corporation
B8ECA3 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

54-19-C8 (hex) vivo Mobile Communication Co., Ltd.
5419C8 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

00-02-77 (hex) Cash Systemes Industrie
000277 (base 16) Cash Systemes Industrie
Technoparc Epsilon

FR

00-16-D3 (hex) Wistron Corporation
0016D3 (base 16) Wistron Corporation
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei
Hsien 221
TW

00-1F-16 (hex) Wistron Corporation
001F16 (base 16) Wistron Corporation
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221
TW

00-26-2D (hex) Wistron Corporation
00262D (base 16) Wistron Corporation
21F, 88, Sec.1, Hsin Tai Wu Rd., Hsichih,
Taipei Hsien 221
TW

04-95-E6 (hex) Tenda Technology Co.,Ltd.Dongguan branch
0495E6 (base 16) Tenda Technology Co.,Ltd.Dongguan branch
Room 79,Yuanyi Road,Dalang Town,Dongguan Guangdong 523770
Dongguan Guangdong 523770
CN

00-60-8B (hex) ConferTech International
00608B (base 16) ConferTech International
12110 N. PECOS STREET
WESTMINSTER CO 80234-2074
US

70-2D-84 (hex) i4C Innovations
702D84 (base 16) i4C Innovations
3800 Concorde Parkway, Suite 400
Chantilly VA 20151
US

C0-D9-F7 (hex) ShanDong Domor Intelligent S&T CO.,Ltd
C0D9F7 (base 16) ShanDong Domor Intelligent S&T CO.,Ltd
Jining high-tech zone
base of production,education & research
Jining Shandong 272000
CN

B0-B9-8A (hex) NETGEAR
B0B98A (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

80-5A-04 (hex) LG Electronics (Mobile Communications)
805A04 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

2C-20-0B (hex) Apple, Inc.
2C200B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

88-66-A5 (hex) Apple, Inc.
8866A5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

90-17-11 (hex) Hagenuk Marinekommunikation GmbH
901711 (base 16) Hagenuk Marinekommunikation GmbH
Hamburger Chaussee 25
Flintbek 24220
DE

00-10-DE (hex) INTERNATIONAL DATACASTING CORPORATION
0010DE (base 16) INTERNATIONAL DATACASTING CORPORATION
2680 QUEENSVIEW DRIVE
OTTAWA, ONTARIO K2B 8H6
CA

8C-A5-A1 (hex) Oregano Systems - Design &
Consulting GmbH
8CA5A1 (base 16) Oregano Systems - Design & Consulting GmbH
Franzosengraben 8
Vienna 1030
AT

CC-A2-19 (hex) SHENZHEN ALONG INVESTMENT CO.,LTD
CCA219 (base 16) SHENZHEN ALONG INVESTMENT CO.,LTD
Room 1301,13F,Zhenye international Business Center,No.3101-90,Qianhai Road,Nanshan District
Shenzhen Guangdong Province 518052
CN

4C-1A-3A (hex) PRIMA Research And Production Enterprise Ltd.
4C1A3A (base 16) PRIMA Research And Production Enterprise Ltd.
63, Svobody st.
Nizhny Novgorod 603003
RU

9C-AE-D3 (hex) Seiko Epson Corporation
9CAED3 (base 16) Seiko Epson Corporation
80 Harashinden
Shiojiri-shi Nagano-ken 399-0785
JP

70-7C-69 (hex) Avaya Inc
707C69 (base 16) Avaya Inc
360 Mt Kemble Ave

Morristown NJ 07960
US

50-0B-91 (hex) IEEE Registration Authority
500B91 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

F8-46-1C
(hex) Sony Interactive Entertainment Inc.
F8461C (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

70-4D-7B (hex) ASUSTek COMPUTER INC.
704D7B (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

38-BC-01 (hex) HUAWEI TECHNOLOGIES CO.,LTD
38BC01 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

34-1E-6B (hex) HUAWEI TECHNOLOGIES CO.,LTD
341E6B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

88-66-39 (hex) HUAWEI TECHNOLOGIES CO.,LTD
886639 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-00-48 (hex) Seiko Epson Corporation
000048 (base 16) Seiko Epson Corporation
80 HIROOKA SHIOJIRI-CITY
japan
JAPAN 399-07
JP

B0-E8-92 (hex) Seiko Epson Corporation

B0E892 (base 16) Seiko Epson Corporation
3-3-5 OWA
SUWA-SHI NAGANO-KEN 392-8502
JP

AC-18-26 (hex) Seiko Epson Corporation
AC1826 (base 16) Seiko Epson Corporation
3-3-5 OWA
SUWA-SHI NAGANO-KEN 392-8502
JP

A4-EE-57 (hex) Seiko Epson Corporation
A4EE57 (base 16) Seiko Epson Corporation
3-3-5 OWA
SUWA-SHI NAGANO-KEN 392-8502
JP

E4-B0-05 (hex) Beijing IQIYI Science & Technology Co., Ltd.
E4B005 (base 16) Beijing IQIYI Science & Technology Co., Ltd.
Room 1101, Floor 11, Capital Development Tower, No.2 Haidian North 1st Street,Haidian District,
Beijing 100080
CN

AC-C1-EE (hex) Xiaomi Communications Co Ltd
ACC1EE (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

00-14-38 (hex) Hewlett Packard Enterprise
001438
(base 16) Hewlett Packard Enterprise
20555 State Highway 249
Houston TX 77070
US

BC-83-85 (hex) Microsoft Corporation
BC8385 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

B0-52-16 (hex) Hon Hai Precision Ind. Co.,Ltd.
B05216 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

14-A7-8B (hex) Zhejiang Dahua Technology Co., Ltd.
14A78B (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199, Waterfront Road
Hangzhou Zhejiang 310053
CN

4C-26-E7 (hex) Welgate Co., Ltd.
4C26E7 (base 16) Welgate Co., Ltd.
19F, Geopyeong Bldg. 129
Seoul Seoul 135726
KR

00-60-41 (hex) Yokogawa Digital Computer Corporation
006041 (base 16) Yokogawa Digital Computer Corporation
Shinjuku MIDWEST Bldg.4-30-3
Yoyogi Shibuya-ku, Tokyo 151-0053
JP

18-F8-7A (hex) i3 International Inc.
18F87A (base 16) i3
International Inc.
780 Birchmount Road
Scarborough Ontario M1K5H4
CA

A0-E4-CB (hex) Zyxel Communications Corporation
A0E4CB (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

28-4E-D7 (hex) OutSmart Power Systems, Inc.
284ED7 (base 16) OutSmart Power Systems, Inc.
11 Mercer Rd
Natick 23 01760

64-A6-8F (hex) Zhongshan Readboy Electronics Co.,Ltd
64A68F (base 16) Zhongshan Readboy Electronics Co.,Ltd
Changmingshui Industrial Park Wuguishan Zhongshan City,Guangdong Province
Zhongshan Guangdong 528400
CN

2C-59-8A (hex) LG Electronics (Mobile Communications)
2C598A (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

A0-B8-F8 (hex) Amgen U.S.A. Inc.
A0B8F8 (base 16) Amgen U.S.A. Inc.
1 Amgen Center Drive
Thousand Oaks CA 91320
US

88-44-77 (hex) HUAWEI TECHNOLOGIES
CO.,LTD
884477 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

14-9D-09 (hex) HUAWEI TECHNOLOGIES CO.,LTD
149D09 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

68-69-75 (hex) Angler Labs Inc
686975 (base 16) Angler Labs Inc
940 Pearce Mill Rd.
Wexford PA 15090
US

4C-11-BF (hex) Zhejiang Dahua Technology Co., Ltd.
4C11BF (base 16) Zhejiang Dahua Technology Co., Ltd.
NO.1199 Bin An Road,Binjiang District,HangZhou,P.R.China
HangZhou ZheJiang 310053
CN

00-42-5A (hex) Cisco Systems, Inc
00425A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

9C-FB-D5 (hex) vivo Mobile Communication Co., Ltd.
9CFBD5 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong,
523860
CN

18-F7-6B (hex) Zhejiang Winsight Technology CO.,LTD
18F76B (base 16) Zhejiang Winsight Technology CO.,LTD
No.3339 Linggongtang RoadNanHu District

Jiaxing Zhejiang 314000
CN

5C-E3-0E (hex) ARRIS Group, Inc.
5CE30E (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

C8-1B-5C (hex) BCTech
C81B5C (base 16) BCTech
14 Building, Tiandeng road 259#
shanghai xuhui district, shanghai 200237
CN

E0-7C-13 (hex) zte corporation
E07C13 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

F4-1F-88 (hex) zte corporation
F41F88 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

58-31-12 (hex) DRUST
583112 (base 16) DRUST
8 rue fabre d'églantine
Paris 75012
FR

9C-83-BF (hex) PRO-VISION, Inc.
9C83BF (base 16) PRO-VISION,
Inc.
8625-B Byron Commerce Dr. SW
Byron Center MI 49315
US

78-EF-4C (hex) Unetconvergence Co., Ltd.
78EF4C (base 16) Unetconvergence Co., Ltd.
101-511, Digital Empire2, 486, Shin-dong, Youngtong-gu
Suwon Kyonggi-do 443-390
KR

20-D2-5F (hex) SmartCap Technologies
20D25F (base 16) SmartCap Technologies

L1 18 Finchley Street
Milton Queensland 4064
AU

E4-7D-BD (hex) Samsung Electronics Co.,Ltd
E47DBD (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

48-D3-43 (hex) ARRIS Group, Inc.
48D343 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-C0-5A (hex) SEMAPHORE COMMUNICATIONS CORP.
00C05A (base 16) SEMAPHORE COMMUNICATIONS CORP.
217 HUMBOLDT COURT
SUNNYVALE CA 94089-1300
US

00-07-F9 (hex) Sensaphone
0007F9 (base 16) Sensaphone
901 Tryens Road
Aston PA 19014
US

00-1C-B3
(hex) Apple, Inc.
001CB3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

1C-C0-E1 (hex) IEEE Registration Authority
1CC0E1 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

24-92-0E (hex) Samsung Electronics Co.,Ltd
24920E (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

FC-42-03 (hex) Samsung Electronics Co.,Ltd

FC4203 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A0-10-81 (hex) Samsung Electronics Co.,Ltd
A01081 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A0-4E-01 (hex) CENTRAL ENGINEERING co.,ltd.
A04E01 (base 16) CENTRAL ENGINEERING co.,ltd.
2-3-19 shinyokohama kouhoku-ku
yokohama-shi kanagawa 222-0033
JP

28-CA-09 (hex) ThyssenKrupp Elevators (Shanghai) Co.,Ltd
28CA09 (base 16) ThyssenKrupp
Elevators (Shanghai) Co.,Ltd
No. 2, Xunye Rd, Sheshan Subarea Songjiang Industrial Area
Shanghai Shanghai 201602
CN

00-50-93 (hex) BOEING
005093 (base 16) BOEING
3370 Miraloma Avenue
Anaheim CA 92803-3105
US

28-EE-52 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
28EE52 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

00-1A-39 (hex) Merten GmbH&CoKG
001A39 (base 16) Merten GmbH&CoKG
Fritz-Kotz-Str. 8
Wiehl NRW 51674
DE

3C-8B-CD (hex) Alcatel-Lucent Shanghai Bell Co., Ltd
3C8BCD (base 16) Alcatel-Lucent Shanghai Bell Co., Ltd
No. 389, Ningqiao Road, Pudong Jinqiao
Shanghai 201206
CN

4C-F9-5D (hex) HUAWEI TECHNOLOGIES CO.,LTD
4CF95D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

84-21-F1
(hex) HUAWEI TECHNOLOGIES CO.,LTD
8421F1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

70-79-90 (hex) HUAWEI TECHNOLOGIES CO.,LTD
707990 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

14-ED-BB (hex) 2Wire Inc
14EDBB (base 16) 2Wire Inc
1764 Automation Parkway
San Jose CA 95131
US

18-E2-9F (hex) vivo Mobile Communication Co., Ltd.
18E29F (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

00-B0-E1 (hex) Cisco Systems, Inc
00B0E1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E4-3E-D7 (hex) Arcadyan Corporation
E43ED7 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

F0-79-60 (hex) Apple,
Inc.
F07960 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

A0-D7-95 (hex) Apple, Inc.
A0D795 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-90-E7 (hex) HORSCH ELEKTRONIK AG
0090E7 (base 16) HORSCH ELEKTRONIK AG
HAAGERSTRASSE
CH-9473 GAMS
CH

90-5C-44 (hex) Compal Broadband Networks, Inc.
905C44 (base 16) Compal Broadband Networks, Inc.
13F., No.1, Taiyuan 1st St.
Zhubei City Hsinchu County 30265
TW

84-25-19 (hex) Samsung Electronics
842519 (base 16) Samsung Electronics
129, Samsung-rom Yeongtong-gu
Suwon-si Gyeonggi-do 16677
KR

5C-24-43 (hex) O-Sung Telecom Co., Ltd.
5C2443 (base 16) O-Sung Telecom Co., Ltd.
43-9 Pyeongdongro 803-gil , Gwangsan-Gu
Gwangju 54611
KR

20-47-ED (hex) SKY UK LIMITED
2047ED (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

74-8A-69 (hex) Korea Image Technology
Co., Ltd
748A69 (base 16) Korea Image Technology Co., Ltd
125, beolmal road, dongan gu,
anyang gyeonggi 14056
KR

54-54-CF (hex) PROBEDIGITAL CO.,LTD
5454CF (base 16) PROBEDIGITAL CO.,LTD
#107 Hyundai I-Valley, 31, Galmachi-ro 244beon-gil, Jungwon-gu

Seongnam-si Gyeonggi-do 13212
KR

F8-63-3F (hex) Intel Corporate
F8633F (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

08-86-20 (hex) TECNO MOBILE LIMITED
088620 (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

00-25-66 (hex) Samsung Electronics Co.,Ltd
002566 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

98-13-33 (hex) zte corporation
981333 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen
guangdong 518057
CN

64-74-F6 (hex) Shooter Detection Systems
6474F6 (base 16) Shooter Detection Systems
300 Newburyport Turnpike
Rowley MA 01969
US

00-F2-2C (hex) Shanghai B-star Technology Co.,Ltd.
00F22C (base 16) Shanghai B-star Technology Co.,Ltd.
4Floor NO.1158 Xiehe Road,Changning District ,shanghai ,China 200335
Shanghai 200335
CN

00-05-EE (hex) Vanderbilt International (SWE) AB
0005EE (base 16) Vanderbilt International (SWE) AB
Englundavaegen 7
Solna SE-171 41
SE

04-18-0F (hex) Samsung Electronics Co.,Ltd

04180F (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

20-13-E0 (hex) Samsung Electronics Co.,Ltd
2013E0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D0-DB-32 (hex) Nokia Corporation
D0DB32 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

E8-00-36
(hex) Befs co,. ltd
E80036 (base 16) Befs co,. ltd
C-#403, 242 Pangyo-ro, Bundang-gu
Seongnam-si Gyeonggi-do 13487
KR

C0-9F-05 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
C09F05 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

F4-3C-96 (hex) Ericsson AB
F43C96 (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

F8-9E-28 (hex) Cisco Meraki
F89E28 (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco null 94158
US

38-84-79 (hex) Cisco Meraki
388479 (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco null 94158
US

5C-49-79 (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
5C4979 (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

C4-41-1E (hex) Belkin International Inc.
C4411E
(base 16) Belkin International Inc.
12045 East Waterfront Drive
Playa Vista null 90094
US

24-F5-A2 (hex) Belkin International Inc.
24F5A2 (base 16) Belkin International Inc.
12045 East Waterfront Drive
Playa Vista null 90094
US

E0-CB-BC (hex) Cisco Meraki
E0CBBC (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco null 94158
US

68-3A-1E (hex) Cisco Meraki
683A1E (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco null 94158
US

C0-F9-45 (hex) Toshiba Toko Meter Systems Co., LTD.
C0F945 (base 16) Toshiba Toko Meter Systems Co., LTD.
3484, Sakuragaoka, Kurohama
Hasuda-shi Saitama 349-0192
JP

70-F8-E7 (hex) IEEE Registration Authority
70F8E7 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

D4-2C-44 (hex) Cisco Systems, Inc
D42C44 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San

Jose CA 94568
US

B8-8E-DF (hex) Zencheer Communication Technology Co., Ltd.
B88EDF (base 16) Zencheer Communication Technology Co., Ltd.
Room 2706, BLDG#7, Changjiang Building, NO.12, Changjiang Road, New District
Wuxi Jiangsu 214028
CN

DC-71-44 (hex) SAMSUNG ELECTRO MECHANICS CO., LTD.
DC7144 (base 16) SAMSUNG ELECTRO MECHANICS CO., LTD.
314, Maetan3-Dong, Yeongtong-Gu
Suwon 443-743
US

00-24-85 (hex) ConteXtream Ltd
002485 (base 16) ConteXtream Ltd
94 Em-HaMoshavot
Petach-Tikva 49527
IL

28-FC-F6 (hex) Shenzhen Xin KingBrand enterprises Co.,Ltd
28FCF6 (base 16) Shenzhen Xin KingBrand enterprises Co.,Ltd
Kingbrand Industrial Zone,Nanpu Road,Shang liao ling pi keng,Shajing Town
Shenzhen Guangdong 518000
CN

68-94-23 (hex) Hon Hai Precision Ind. Co.,Ltd.
689423 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

84-4B-F5
(hex) Hon Hai Precision Ind. Co.,Ltd.
844BF5 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

08-ED-B9 (hex) Hon Hai Precision Ind. Co.,Ltd.
08EDB9 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

3C-77-E6 (hex) Hon Hai Precision Ind. Co.,Ltd.
3C77E6 (base 16) Hon Hai Precision Ind. Co.,Ltd.

Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

70-18-8B (hex) Hon Hai Precision Ind. Co.,Ltd.
70188B (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

98-0C-82 (hex) SAMSUNG ELECTRO MECHANICS CO., LTD.
980C82 (base 16) SAMSUNG ELECTRO MECHANICS CO., LTD.
Metan Dong 314, Youngtong Gu
Suwon Kyung-gi Do. 443-743
KR

A0-0B-BA (hex) SAMSUNG ELECTRO MECHANICS CO., LTD.
A00BBA
(base 16) SAMSUNG ELECTRO MECHANICS CO., LTD.
Suwon-Si, Gyeonggi_Do, Korea
Suwon Gyeonggi_Do 443-743
KR

60-6B-BD (hex) Samsung Electronics Co.,Ltd
606BBD (base 16) Samsung Electronics Co.,Ltd
416, Maetan-3dong, Yeongtong-gu
Suwon-si Gyeonggi-do 443742
KR

00-21-4C (hex) Samsung Electronics Co.,Ltd
00214C (base 16) Samsung Electronics Co.,Ltd
416, METAN-3DONG,
SUWON KYUNGKI-DO 442-742
KR

00-16-6B (hex) Samsung Electronics Co.,Ltd
00166B (base 16) Samsung Electronics Co.,Ltd
416,Maetan-3Dong,Yeongtong-Gu
Suwon-City Kyeonggi-Do 443-742
KR

00-1F-58 (hex) EMH Energiemesstechnik GmbH
001F58 (base 16) EMH Energiemesstechnik GmbH
Vor dem Hassel 2
Brackel 21438
DE

00-16-DF (hex) Lundinova AB

0016DF (base 16) Lundinova AB
Dalbyvägen 1
Lund Skåne SE-224 60
US

00-1D-0C (hex) MobileCompia
001D0C (base 16) MobileCompia
Dongwon Bldg, 725-30, Yeoksam-dong, Gangnam-gu,
Seoul
135-080
KR

84-3D-C6 (hex) Cisco Systems, Inc
843DC6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-00-F0 (hex) Samsung Electronics Co.,Ltd
0000F0 (base 16) Samsung Electronics Co.,Ltd
416, MAETAN-3DONG, PALDAL-GU
kwon 442-742
KR

8C-C8-CD (hex) Samsung Electronics Co.,Ltd
8CC8CD (base 16) Samsung Electronics Co.,Ltd
416, Maetan-3dong, Yeongtong-gu
Suwon Gyeonggi-do 443742
KR

80-18-A7 (hex) Samsung Electronics Co.,Ltd
8018A7 (base 16) Samsung Electronics Co.,Ltd
416, Maetan 3dong, Yeongtong-Gu
Suwon Gyeonggi-Do 443742
KR

5C-6D-20 (hex) Hon Hai Precision Ind. Co.,Ltd.
5C6D20 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

5C-AC-4C (hex) Hon Hai Precision Ind. Co.,Ltd.
5CAC4C (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st
Road
Chongqing Chongqing 401332
CN

34-E7-1C (hex) Shenzhen YOUHUA Technology Co., Ltd
34E71C (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

F4-7B-5E (hex) Samsung Electronics Co.,Ltd
F47B5E (base 16) Samsung Electronics Co.,Ltd
416, Maetan 3dong, Yeongtong-Gu
Suwon Gyeonggi-Do 443742
KR

08-C6-B3 (hex) QTECH LLC
08C6B3 (base 16) QTECH LLC
Novozavodskaya st. 18 build. 1
Moscow Moscow region 121309
RU

00-18-AF (hex) Samsung Electronics Co.,Ltd
0018AF (base 16) Samsung Electronics Co.,Ltd
#94-1
Gumi-City Gyeong-Buk 730-350
KR

00-1E-E1 (hex) Samsung Electronics Co.,Ltd
001EE1 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D0-25-44 (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
D02544 (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T.
Bangsamak
Bangpakong Chachoengsao 24180
TH

00-5A-13 (hex) HUAWEI TECHNOLOGIES CO.,LTD
005A13 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

24-DB-ED (hex) Samsung Electronics Co.,Ltd
24DBED (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350

KR

C4-50-06 (hex) Samsung Electronics Co.,Ltd
C45006 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

88-32-9B (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
88329B (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak
Bangpakong 24180
US

14-49-E0 (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
1449E0 (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak
Bangpakong 24180
US

D4-87-D8 (hex) Samsung Electronics Co.,Ltd
D487D8 (base 16) Samsung Electronics
Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

18-46-17 (hex) Samsung Electronics Co.,Ltd
184617 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

38-0A-94 (hex) Samsung Electronics Co.,Ltd
380A94 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D0-DF-C7 (hex) Samsung Electronics Co.,Ltd
D0DFC7 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D0-C1-B1 (hex) Samsung Electronics Co.,Ltd
D0C1B1 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong

Gumi Gyeongbuk 730-350
KR

20-D3-90 (hex) Samsung Electronics Co.,Ltd
20D390 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

94-01-C2 (hex) Samsung Electronics Co.,Ltd
9401C2 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

50-FC-9F
(hex) Samsung Electronics Co.,Ltd
50FC9F (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

38-0B-40 (hex) Samsung Electronics Co.,Ltd
380B40 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

70-F9-27 (hex) Samsung Electronics Co.,Ltd
70F927 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F0-72-8C (hex) Samsung Electronics Co.,Ltd
F0728C (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

34-AA-8B (hex) Samsung Electronics Co.,Ltd
34AA8B (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

BC-44-86 (hex) Samsung Electronics Co.,Ltd
BC4486 (base 16) Samsung Electronics Co.,Ltd

#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A8-F2-74 (hex) Samsung Electronics Co.,Ltd
A8F274 (base 16) Samsung
Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

88-6A-B1 (hex) vivo Mobile Communication Co., Ltd.
886AB1 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

6C-1E-90 (hex) Hansol Technics Co., Ltd.
6C1E90 (base 16) Hansol Technics Co., Ltd.
55, Hansam-ro, Deoksan-Myeon
Jincheon-Gun Chungbuk 27850
KR

00-17-7E (hex) Meshcom Technologies Inc.
00177E (base 16) Meshcom Technologies Inc.
Meritullinkatu 1 C
Helsinki 00170
FI

98-F0-58 (hex) Lynxspring, Incl.
98F058 (base 16) Lynxspring, Incl.
1210 NE Windsor Drive
Lees Summit MO 64086
US

C4-F5-A5 (hex) Kumalift Co., Ltd.
C4F5A5 (base 16) Kumalift Co., Ltd.
7-2-6 Saito-Asagi
Ibaraki Osaka 567-0085
JP

A0-04-60 (hex) NETGEAR
A00460 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

98-84-E3 (hex) Texas Instruments

9884E3
(base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

38-D2-69 (hex) Texas Instruments
38D269 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

C8-FD-19 (hex) Texas Instruments
C8FD19 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

50-8C-B1 (hex) Texas Instruments
508CB1 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

B8-FF-61 (hex) Apple, Inc.
B8FF61 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

94-61-24 (hex) Pason Systems
946124 (base 16) Pason Systems
6130 - 3rd Street S.E.
Calgary Alberta T2H1K4
CA

68-C4-4D (hex) Motorola Mobility LLC, a Lenovo Company
68C44D (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

C8-DE-51 (hex) IntegraOptics
C8DE51 (base 16) IntegraOptics
745 Albany Shaker Rd
Latham
NY 12110
US

70-B1-4E (hex) ARRIS Group, Inc.
70B14E (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

30-44-87 (hex) Hefei Radio Communication Technology Co., Ltd
304487 (base 16) Hefei Radio Communication Technology Co., Ltd
No.108, YinXing Road, High-tech Development Zone
Hefei Anhui 230088
CN

2C-9D-1E (hex) HUAWEI TECHNOLOGIES CO.,LTD
2C9D1E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-3D-C9 (hex) Asahi Net, Inc.
943DC9 (base 16) Asahi Net, Inc.
Ginza 4-12-15 Chuo-ku
Tokyo 104-0061
JP

00-81-C4 (hex) Cisco Systems, Inc
0081C4 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

44-04-44 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
440444 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG
GUAN GUANG DONG 523860
CN

40-0D-10 (hex) ARRIS Group, Inc.
400D10 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

58-E8-76 (hex) IEEE Registration Authority
58E876 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554

US

D0-37-42 (hex) Yulong Computer Telecommunication Scientific (Shenzhen) Co.,Ltd
D03742 (base 16) Yulong Computer Telecommunication Scientific (Shenzhen) Co.,Ltd
Coolpad Information Harbor, 2nd Mengxi road, Hi-Tech Industrial Park(North), Nanshan District
Shenzhen Guangdong 518057
CN

00-17-65 (hex) Nortel Networks
001765 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-15-E8 (hex) Nortel Networks
0015E8 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-0F-06 (hex) Nortel Networks
000F06 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

F8-E6-1A
(hex) Samsung Electronics Co.,Ltd
F8E61A (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

84-B5-41 (hex) Samsung Electronics Co.,Ltd
84B541 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-6F-64 (hex) Samsung Electronics Co.,Ltd
006F64 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

DC-66-72 (hex) Samsung Electronics Co.,Ltd
DC6672 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong

Gumi Gyeongbuk 730-350
KR

EC-8E-B5 (hex) Hewlett Packard
EC8EB5 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

70-AF-6A (hex) SHENZHEN FENGLIAN TECHNOLOGY CO., LTD.
70AF6A (base 16) SHENZHEN FENGLIAN TECHNOLOGY CO., LTD.
ORIENTAL CYBERPORT, HIGHTECH 6 ROAD
SHENZHEN GUANGDONG 518057
CN

C4-04-7B (hex) Shenzhen YOUHUA Technology
Co., Ltd
C4047B (base 16) Shenzhen YOUHUA Technology Co., Ltd
Shenzhen University-town Business Park,Lishan Road,Taoyuan Street
Shenzhen Guangdong 518055
CN

20-F4-1B (hex) Shenzhen Bilian electronic CO.,LTD
20F41B (base 16) Shenzhen Bilian electronic CO.,LTD
NO 268, Fuqian Rd,Jutang Community,Guanlan town,
ShenZhen Guangdong 518110
CN

00-23-3E (hex) Alcatel-Lucent IPD
00233E (base 16) Alcatel-Lucent IPD
701 E. Middlefield Rd.
Mountain View CA 94043
US

6C-BE-E9 (hex) Alcatel-Lucent IPD
6CBEE9 (base 16) Alcatel-Lucent IPD
701 E. Middlefield Rd.
Mountain View CA 94043
US

00-16-4D (hex) Alcatel-Lucent IPD
00164D (base 16) Alcatel-Lucent IPD
701 E. Middlefield RD.
Mountain View CA 94043
US

00-1A-F0 (hex) Alcatel-Lucent IPD
001AF0 (base 16) Alcatel-Lucent IPD

701 E. Middlefield Rd.
Mountain View CA 94943
US

38-52-1A (hex) Nokia
38521A (base 16) Nokia
600
March Road
Kanata Ontario K2K 2E6
CA

00-1E-40 (hex) Shanghai DareGlobal Technologies Co.,Ltd
001E40 (base 16) Shanghai DareGlobal Technologies Co.,Ltd
22F, lnfo Tech Building, NO.1555 Kongjiang Road,
Shanghai 200092
CN

20-F5-43 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
20F543 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

E0-DD-C0 (hex) vivo Mobile Communication Co., Ltd.
E0DDC0 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

94-D7-23 (hex) Shanghai DareGlobal Technologies Co.,Ltd
94D723 (base 16) Shanghai DareGlobal Technologies Co.,Ltd
22F Info-Tech Building
Shanghai 200092
CN

FC-FA-F7 (hex) Shanghai Baud Data Communication Co.,Ltd.
FCFAF7 (base 16) Shanghai Baud Data Communication Co.,Ltd.
NO.123 JULI RD
SHANGHAI
201203
CN

D8-26-B9 (hex) Guangdong Coagent Electronics S&T Co.,Ltd.
D826B9 (base 16) Guangdong Coagent Electronics S&T Co.,Ltd.
Section C,Xi Nan Industrial Zone Sanshui
Foshan Guangdong 528133
CN

AC-9C-E4 (hex) Alcatel-Lucent Shanghai Bell Co., Ltd
AC9CE4 (base 16) Alcatel-Lucent Shanghai Bell Co., Ltd
No. 389, Ningqiao Road, Pudong Jinqiao
Shanghai 201206
CN

00-15-9B (hex) Nortel Networks
00159B (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-15-40 (hex) Nortel Networks
001540 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-1E-CA (hex) Nortel Networks
001ECA (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-13-0A (hex) Nortel Networks
00130A (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-1F-0A (hex) Nortel Networks
001F0A (base 16) Nortel
Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

6C-A8-58 (hex) Fiberhome Telecommunication Technologies Co.,LTD
6CA858 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

A8-4E-3F (hex) Hitron Technologies. Inc
A84E3F (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

08-D8-33 (hex) Shenzhen RF Technology Co., Ltd
08D833 (base 16) Shenzhen RF Technology Co., Ltd
5/F,Building 4 ,Baokun science and Technology Industrial Park,Dalang Street,Baoan District,Shenzhen,China
Shenzhen Guangdong 518109
CN

A4-60-32 (hex) MRV Communications (Networks) LTD
A46032 (base 16) MRV Communications (Networks) LTD
Hayetzira 6
Yokneam Yokneam 20692
IL

40-66-7A (hex) mediola - connected living AG
40667A (base 16) mediola - connected living AG
Nobelring 26
Frankfurt
am Main Hessen 60598
DE

9C-2A-83 (hex) Samsung Electronics Co.,Ltd
9C2A83 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-22-A9 (hex) LG Electronics (Mobile Communications)
0022A9 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

00-25-E5 (hex) LG Electronics (Mobile Communications)
0025E5 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

00-21-FB (hex) LG Electronics (Mobile Communications)
0021FB (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

34-FC-EF (hex) LG Electronics (Mobile Communications)
34FCEF (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801

KR

BC-F5-AC (hex) LG Electronics (Mobile Communications)
BCF5AC (base 16) LG
Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

98-D6-F7 (hex) LG Electronics (Mobile Communications)
98D6F7 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

70-05-14 (hex) LG Electronics (Mobile Communications)
700514 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

E8-92-A4 (hex) LG Electronics (Mobile Communications)
E892A4 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

10-68-3F (hex) LG Electronics (Mobile Communications)
10683F (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

40-B0-FA (hex) LG Electronics (Mobile Communications)
40B0FA (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul
153-801
KR

A0-39-F7 (hex) LG Electronics (Mobile Communications)
A039F7 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

1C-CA-E3 (hex) IEEE Registration Authority
1CCAE3 (base 16) IEEE Registration Authority

445 Hoes Lane
Piscataway NJ 08554
US

E4-95-6E (hex) IEEE Registration Authority
E4956E (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

B4-37-D1 (hex) IEEE Registration Authority
B437D1 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

A0-91-C8 (hex) zte corporation
A091C8 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

00-55-DA (hex) IEEE Registration Authority
0055DA (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

78-C2-C0 (hex) IEEE Registration
Authority
78C2C0 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

2C-6A-6F (hex) IEEE Registration Authority
2C6A6F (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

00-60-0F (hex) Westell Technologies Inc.
00600F (base 16) Westell Technologies Inc.
750 N Commons Dr
Aurora IL 60504
US

00-18-3A (hex) Westell Technologies Inc.

00183A (base 16) Westell Technologies Inc.
750 N Commons Dr
Aurora IL 60504
US

00-0E-E8 (hex) Zioncom Electronics (Shenzhen) Ltd.
000EE8 (base 16) Zioncom Electronics (Shenzhen) Ltd.
West wing 5/F ., Block 1, GaoXin South Ring Rd/Keji South Rd,
Shenzhen Guangdong 518057
CN

00-C0-95 (hex) ZNYX Networks, Inc.
00C095 (base 16) ZNYX Networks, Inc.
48421 Milmont Drive
Fremont CA 94538
US

00-20-25 (hex) CONTROL TECHNOLOGY, INC.
002025 (base 16) CONTROL TECHNOLOGY, INC.
5734
MIDDLEBROOK PIKE
KNOXVILLE TN 37921
US

00-1E-37 (hex) Universal Global Scientific Industrial Co., Ltd.
001E37 (base 16) Universal Global Scientific Industrial Co., Ltd.
141, LANE 351,SEC.1, TAIPING RD.
TSAOTUEN, NANTOU 54261
TW

00-1A-6B (hex) Universal Global Scientific Industrial Co., Ltd.
001A6B (base 16) Universal Global Scientific Industrial Co., Ltd.
141, LANE 351,SEC.1, TAIPING RD.
TSAOTUEN, NANTOU 54261
TW

00-16-41 (hex) Universal Global Scientific Industrial Co., Ltd.
001641 (base 16) Universal Global Scientific Industrial Co., Ltd.
141, LANE 351,SEC.1, TAIPING RD.
TSAOTUEN, NANTOU 54261
TW

00-10-C6 (hex) Universal Global Scientific Industrial Co., Ltd.
0010C6 (base 16) Universal Global Scientific Industrial Co., Ltd.
141, LANE 351,SEC.1, TAIPING RD.
TSAOTUEN, NANTOU 54261
TW

00-24-7E (hex) Universal Global Scientific Industrial Co., Ltd.
00247E (base 16) Universal
Global Scientific Industrial Co., Ltd.
141, LANE 351,SEC.1, TAIPING RD.
nantou NANTOU 54261
TW

00-DD-0A (hex) UNGERMANN-BASS INC.
00DD0A (base 16) UNGERMANN-BASS INC.
3900 FREEDOM CIRCLE
SANTA CLARA CA 95054
US

00-25-17 (hex) Venntis, LLC
002517 (base 16) Venntis, LLC
11301 James Street
Holland MI 49424
US

68-35-63 (hex) SHENZHEN LIOWN ELECTRONICS CO.,LTD.
683563 (base 16) SHENZHEN LIOWN ELECTRONICS CO.,LTD.
ROOM 301, NO.7, GONGYE 3RD ROAD
SHEKOU, NANSHAN DISTRICT SHENZHEN 518054
CN

00-40-72 (hex) Applied Innovation Inc.
004072 (base 16) Applied Innovation Inc.
5800 Innovation Drive
Dublin OH 43016-3271
US

00-08-F1 (hex) Voltaire
0008F1 (base 16) Voltaire
9 Hamenofim st.
Herzelia 46725
IL

00-19-9D (hex) Vizio, Inc
00199D (base 16) Vizio, Inc
39 Tesla
Irvine CA 92618
US

00-19-38 (hex) UMB Communications Co., Ltd.
001938 (base 16) UMB
Communications Co., Ltd.
1010, 5, ACE Techno Tower, 197-22, Guro-dong, Guro-gu
Seoul 151-766

KR

44-39-C4 (hex) Universal Global Scientific Industrial Co., Ltd.
4439C4 (base 16) Universal Global Scientific Industrial Co., Ltd.
141,Lane351,Taiping Rd.Sec.1
nan tou 542
TW

40-2C-F4 (hex) Universal Global Scientific Industrial Co., Ltd.
402CF4 (base 16) Universal Global Scientific Industrial Co., Ltd.
141, Lane 351, Taiping Rd. Sec. 1, Tsao Tuen,
Nan-Tou Hsien, 542
TW

00-B0-64 (hex) Cisco Systems, Inc
00B064 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

68-A0-F6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
68A0F6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-0E-5C (hex) ARRIS Group, Inc.
000E5C (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

84-5D-D7
(hex) Shenzhen Netcom Electronics Co.,Ltd
845DD7 (base 16) Shenzhen Netcom Electronics Co.,Ltd
8/F,1 Building,Finance Base,No.8,Kefa Road,High-Tech Park
Shenzhen Guangdong 518057
CN

1C-57-D8 (hex) Kraftway Corporation PLC
1C57D8 (base 16) Kraftway Corporation PLC
16, 3rd Mytischinskaya st.
Moscow 129626
RU

00-E0-8B (hex) QLogic Corporation
00E08B (base 16) QLogic Corporation
26600 Laguna Hills Dr.

Aliso Viejo CA 92656
US

D8-EB-97 (hex) TRENDnet, Inc.
D8EB97 (base 16) TRENDnet, Inc.
20675 Manhattan Place
Torrance CA 90501
US

00-1C-7E (hex) Toshiba
001C7E (base 16) Toshiba
2-9,Suehiro-Cho
Ome 1988710
JP

00-23-18 (hex) Toshiba
002318 (base 16) Toshiba
2-9,Suehiro-Cho
Ome Tokyo 1988710
JP

B8-6B-23 (hex) Toshiba
B86B23 (base 16) Toshiba
2-9,Suehiro-Cho
Ome Tokyo 1988710
JP

AC-04-0B (hex) Peloton Interactive, Inc
AC040B
(base 16) Peloton Interactive, Inc
158 W 27th St, 4th Fl
New York NY 10001
US

48-FC-B6 (hex) LAVA INTERNATIONAL(H.K) LIMITED
48FCB6 (base 16) LAVA INTERNATIONAL(H.K) LIMITED
UNIT L 1/F MAU LAM COMM BLDG 16-18 MAU LAM ST, JORDAN KL, HK
Hong kong 999077
CN

B0-E2-35 (hex) Xiaomi Communications Co Ltd
B0E235 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

40-C7-29 (hex) Sagemcom Broadband SAS
40C729 (base 16) Sagemcom Broadband SAS

250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

00-13-49 (hex) Zyxel Communications Corporation
001349 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

D8-E0-B8 (hex) BULAT LLC
D8E0B8 (base 16) BULAT LLC
Zagorievsiy proezd 1, room 7
Moscow 115547
RU

60-31-97 (hex) Zyxel
Communications Corporation
603197 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

00-1B-FE (hex) Zavio Inc.
001BFE (base 16) Zavio Inc.
No.1,Lising 1st Rd. Science Based Industrial Park,
Hsinchu 300
TW

54-10-EC (hex) Microchip Technology Inc.
5410EC (base 16) Microchip Technology Inc.
2355 W. Chandler Blvd.
Chandler AZ 85224
US

00-04-A3 (hex) Microchip Technology Inc.
0004A3 (base 16) Microchip Technology Inc.
2355 W. Chandler Blvd.
Chandler AZ 85224
US

78-9C-E7 (hex) Shenzhen Aikede Technology Co., Ltd
789CE7 (base 16) Shenzhen Aikede Technology Co., Ltd
Room 9B,Block B,Neptunus Mansion,
Shenzhen Guangdong 518000
CN

50-9F-3B (hex) OI ELECTRIC CO.,LTD

509F3B (base 16) OI ELECTRIC CO.,LTD
7-3-16 KIKUNA
YOKOHAMA KANAGAWA-KEN 222-0011
JP

14-C9-13 (hex) LG Electronics
14C913 (base 16) LG
Electronics
222 LG-ro, JINWI-MYEON
Pyeongtaek-si Gyeonggi-do 451-713
KR

C0-C9-76 (hex) Shenzhen TINNO Mobile Technology Corp.
C0C976 (base 16) Shenzhen TINNO Mobile Technology Corp.
Building, No.33, Xiandong Rd, Xili
Nanshan District, Shenzhen PRC 518053
CN

58-8B-F3 (hex) Zyxel Communications Corporation
588BF3 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

50-67-F0 (hex) Zyxel Communications Corporation
5067F0 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

44-6E-E5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
446EE5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C8-77-8B (hex) Mercury Systems – Trusted Mission Solutions, Inc.
C8778B (base 16) Mercury Systems – Trusted Mission Solutions, Inc.
47200
Bayside Pkwy
Fremont CA 94538
US

00-0B-6B (hex) Wistron Neweb Corporation
000B6B (base 16) Wistron Neweb Corporation
No. 10-1, Li-Hsin Road I, Science-based
Hsinchu 300
TW

60-02-B4 (hex) Wistron Neweb Corporation
6002B4 (base 16) Wistron Neweb Corporation
No.20 Park Avenue II
Hsinchu 308
TW

94-DF-4E (hex) Wistron InfoComm(Kunshan)Co.,Ltd.
94DF4E (base 16) Wistron InfoComm(Kunshan)Co.,Ltd.
168# First Avence,Kunshan Export Processing Zone ,China
Kunsha JiangSu 215300
CN

98-EE-CB (hex) Wistron Infocomm (Zhongshan) Corporation
98EECB (base 16) Wistron Infocomm (Zhongshan) Corporation
No.38,East Keji Road,Zhongshan Torch Development Zone,Zhongshan City,Guangdong,China
Zhongshan Guangdong 528437
CN

68-3E-34 (hex) MEIZU Technology Co., Ltd.
683E34 (base 16) MEIZU Technology Co., Ltd.
MEIZU Tech Bldg., Technology & Innovation Coast
Zhuhai Guangdong 519085
CN

00-04-4B
(hex) NVIDIA
00044B (base 16) NVIDIA
3535 Monroe St.
Santa Clara CA 95051
US

AC-9B-0A (hex) Sony Corporation
AC9B0A (base 16) Sony Corporation
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

10-4F-A8 (hex) Sony Corporation
104FA8 (base 16) Sony Corporation
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

A0-60-90 (hex) Samsung Electronics Co.,Ltd
A06090 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350

KR

BC-76-5E (hex) Samsung Electronics Co.,Ltd
BC765E (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E0-A8-B8 (hex) Le Shi Zhi Xin Electronic Technology (Tianjin) Limited
E0A8B8 (base 16) Le Shi Zhi Xin Electronic Technology (Tianjin) Limited
,Le Shi Building, No.105 Yaojiayuan Road,Chaoyang District,Beijing,China
beijing beijing 100025
CN

F4-5B-73 (hex) Wanjiaan Interconnected Technology Co., Ltd
F45B73
(base 16) Wanjiaan Interconnected Technology Co., Ltd
2nd Floor,Incubation Building, Science Development Institute of China, High-tech South 1st Street, Nanshan District
Shenzhen Guangdong 518040
CN

B8-81-98 (hex) Intel Corporate
B88198 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B0-D7-CC (hex) Tridonic GmbH & Co KG
B0D7CC (base 16) Tridonic GmbH & Co KG
Färbergasse 15
Dornbirn Vorarlberg 6851
AT

2C-DD-A3 (hex) Point Grey Research Inc.
2CDDA3 (base 16) Point Grey Research Inc.
305-1847 West Broadway
Vancouver British Columbia V6J 1Y6
CA

00-80-9F (hex) ALE International
00809F (base 16) ALE International
32 avenue Kléber
Colombes 92700
FR

B8-24-F0 (hex) SOYO Technology Development Co., Ltd.
B824F0 (base 16) SOYO Technology Development Co., Ltd.

4F, 9Bldg, Longbi Industry Zone, Longgang Dist, Shenzhen City, Guangdong Pro, China
Shenzhen
City Guangdong Pro 518129
CN

D8-5B-2A (hex) Samsung Electronics Co.,Ltd
D85B2A (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A0-09-ED (hex) Avaya Inc
A009ED (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

00-14-B4 (hex) General Dynamics United Kingdom Ltd
0014B4 (base 16) General Dynamics United Kingdom Ltd
Castleham Road
St Leonards on Sea East Sussex TN38 9NJ
GB

A0-B4-37 (hex) GD Mission Systems
A0B437 (base 16) GD Mission Systems
8220 EAST ROOSEVELT ST R2121
SCOTTSDALE AZ 85257
US

E0-98-61 (hex) Motorola Mobility LLC, a Lenovo Company
E09861 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

9C-8E-CD (hex) Amcrest Technologies
9C8ECD (base 16) Amcrest Technologies
16727 Park Row
Houston TX 77084
US

48-C6-63 (hex) GTO Access Systems
LLC
48C663 (base 16) GTO Access Systems LLC
3121 Hartsfield Road
Tallahassee FL 32303
US

00-5F-86 (hex) Cisco Systems, Inc
005F86 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

38-1D-D9 (hex) FN-LINK TECHNOLOGY LIMITED
381DD9 (base 16) FN-LINK TECHNOLOGY LIMITED
A Building,HuiXin industial park,No 31, YongHe road, Fuyong town, Bao'an District
SHENZHEN GUANGDONG 518100
CN

00-F6-63 (hex) Cisco Systems, Inc
00F663 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

8C-6D-50 (hex) SHENZHEN MTC CO LTD
8C6D50 (base 16) SHENZHEN MTC CO LTD
5th Floor, 3rd Building, SHENZHEN MTC Industrial Park, XiaLilang Rd, Nanwan Street, Long’gang District
Shenzhen Guangdong 518100
CN

F8-A0-97 (hex) ARRIS Group, Inc.
F8A097 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

FC-23-25 (hex) EosTek (Shenzhen)
Co., Ltd.
FC2325 (base 16) EosTek (Shenzhen) Co., Ltd.
Room 306, Complex Building Tsinghua High-Tech Park
Shenzhen Guangdong 518057
CN

FC-3D-93 (hex) LONGCHEER TELECOMMUNICATION LIMITED
FC3D93 (base 16) LONGCHEER TELECOMMUNICATION LIMITED
Building 1,No.401,Caobao Rd
Shanghai Xuhui District 200233
CN

8C-59-C3 (hex) ADB Italia
8C59C3 (base 16) ADB Italia
Viale Sarca 222
Milan Italy 20126
IT

1C-B9-C4 (hex) Ruckus Wireless
1CB9C4 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

FC-A8-9A (hex) Sunitec Enterprise Co.,Ltd
FCA89A (base 16) Sunitec Enterprise Co.,Ltd
3F.,No.98-1,Mincyuan Rd.Sindian City
Taipei County 231 231141
CN

1C-7B-23 (hex) Qingdao Hisense Communications Co.,Ltd.
1C7B23 (base 16) Qingdao Hisense Communications Co.,Ltd.
Qianwangang Road 218
Qingdao Shandong 266510
CN

C8-3D-FC (hex) AlphaTheta Corporation
C83DFC
(base 16) AlphaTheta Corporation
6F,Yokohama i-Mark Place, 4-4-5 Minatomirai, Nishi-ku
Yokohama Kanagawa 220-0012
JP

CC-D3-1E (hex) IEEE Registration Authority
CCD31E (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

34-B3-54 (hex) HUAWEI TECHNOLOGIES CO.,LTD
34B354 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C0-2F-F1 (hex) Volta Networks
C02FF1 (base 16) Volta Networks
109 Kingston St, 3rd Floor
Boston MA 02111
US

E8-A7-F2 (hex) sTraffic
E8A7F2 (base 16) sTraffic
4th Fl., KTNET Building, 338 Pangyoro, Bundang-gu
Seongnam Gyeonggi-do 13493

KR

00-1F-20 (hex) Logitech Europe SA
001F20 (base 16) Logitech Europe SA
EPFL - Quartier de l'Innovation
Lausanne CH 1015
CH

1C-6E-76 (hex) Quarion Technology Inc
1C6E76 (base 16) Quarion Technology Inc
3248 Commerce
Drive
Newburgh IN 47630
US

00-62-EC (hex) Cisco Systems, Inc
0062EC (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

6C-0E-E6 (hex) Chengdu Xiyida Electronic Technology Co,.Ltd
6C0EE6 (base 16) Chengdu Xiyida Electronic Technology Co,.Ltd
Room 408,Building A,No.33 Wuqing South Road,Wuhou District
Chengdu Sichuan 610000
CN

00-07-63 (hex) Sunniwell Cyber Tech. Co., Ltd.
000763 (base 16) Sunniwell Cyber Tech. Co., Ltd.
17th Floor Haitai Building #229
Beijing 100083
CN

C4-6A-B7 (hex) Xiaomi Communications Co Ltd
C46AB7 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

00-0A-ED (hex) HARTING Electronics GmbH
000AED (base 16) HARTING Electronics GmbH
Wilhelm Harting Str.1
Espelkamp NRW/OWL 32339
DE

CC-16-7E (hex) Cisco Systems, Inc
CC167E (base 16) Cisco

Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

CC-50-0A (hex) Fiberhome Telecommunication Technologies Co.,LTD
CC500A (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

D0-46-DC (hex) Southwest Research Institute
D046DC (base 16) Southwest Research Institute
6220 Culebra Road
San Antonio Texas 78238
US

0C-DA-41 (hex) Hangzhou H3C Technologies Co., Limited
0CDA41 (base 16) Hangzhou H3C Technologies Co., Limited
310 Liuhe Road, Zhijiang Science Park
Hangzhou Zhejiang, 310053
CN

74-25-8A (hex) Hangzhou H3C Technologies Co., Limited
74258A (base 16) Hangzhou H3C Technologies Co., Limited
310 Liuhe Road, Zhijiang Science Park
Hangzhou Zhejiang, 310053
CN

74-1F-4A (hex) Hangzhou H3C Technologies Co., Limited
741F4A (base 16) Hangzhou H3C Technologies Co., Limited
466 Changhe Road, Binjiang District,
Hangzhou
Zhejiang, P.R.China 310052
CN

70-A2-B3 (hex) Apple, Inc.
70A2B3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F4-0F-24 (hex) Apple, Inc.
F40F24 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

4C-57-CA (hex) Apple, Inc.
4C57CA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

90-C1-C6 (hex) Apple, Inc.
90C1C6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E4-1D-2D (hex) Mellanox Technologies, Inc.
E41D2D (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

24-0A-11 (hex) TCT mobile ltd
240A11 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

D8-E5-6D (hex) TCT mobile ltd
D8E56D (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

54-05-93
(hex) WOORI ELEC Co.,Ltd
540593 (base 16) WOORI ELEC Co.,Ltd
#1401~03, #1411~12, Bucheon Deawoo Techno Park, D-Dong, 261,Doyak-Ro, Wonmi-Gu,Bucheon-Si
Gyeonggi-Do 14523
KR

A0-B6-62 (hex) Acutvista Innovation Co., Ltd.
A0B662 (base 16) Acutvista Innovation Co., Ltd.
2F-1, No. 20 Alley 1, Lane 768, Sec. 4
Taipei City 11577
TW

34-97-F6 (hex) ASUSTek COMPUTER INC.
3497F6 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

50-68-0A (hex) HUAWEI TECHNOLOGIES CO.,LTD
50680A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-A0-06 (hex) IMAGE DATA PROCESSING SYSTEM GROUP
00A006 (base 16) IMAGE DATA PROCESSING SYSTEM GROUP
SHINTOYOFUTA 2-1
KASHIWA-CITY, CHIBA 277
JP

C8-3F-26 (hex) Microsoft Corporation
C83F26 (base 16) Microsoft Corporation
One
Microsoft Way
REDMOND WA 98052
US

00-0C-49 (hex) Dangaard Telecom Denmark A/S
000C49 (base 16) Dangaard Telecom Denmark A/S
Industrivej 1
Padborg DK-6330
DK

00-22-38 (hex) LOGIPLUS
002238 (base 16) LOGIPLUS
1, RUE CLEMENT ADER
GOSSELIES HAINAUT B-6041
BE

F8-DA-0C (hex) Hon Hai Precision Ind. Co.,Ltd.
F8DA0C (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

1C-1B-0D (hex) GIGA-BYTE TECHNOLOGY CO.,LTD.
1C1B0D (base 16) GIGA-BYTE TECHNOLOGY CO.,LTD.
Pin-Jen City, Taoyuan, Taiwan, R.O.C.
Pin-Jen Taoyuan 324
TW

48-E9-F1 (hex) Apple, Inc.
48E9F1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

90-38-09 (hex) Ericsson AB
903809 (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

A4-D8-CA (hex) HONG KONG WATER WORLD TECHNOLOGY CO. LIMITED
A4D8CA (base 16) HONG
KONG WATER WORLD TECHNOLOGY CO. LIMITED
RM B-C, 24/F, GOLDEN BEAR INDUSTRIAL CENTRE, 66-82 CHAI WAN KOK STREET,TSUEN WAN. N.T.
Hong Kong 999077
HK

80-19-FE (hex) JianLing Technology CO., LTD
8019FE (base 16) JianLing Technology CO., LTD
No. 383-1, Sec. 2, Jinling Rd., Pingzhen Dist.,
Tao Yuan 324
TW

60-B4-F7 (hex) Plume Design Inc
60B4F7 (base 16) Plume Design Inc
200 California Ave
Palo Alto CA 94306
US

44-65-0D (hex) Amazon Technologies Inc.
44650D (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

E4-2F-56 (hex) OptoMET GmbH
E42F56 (base 16) OptoMET GmbH
Pfungstaedter Str. 92
Darmstadt 64297
DE

00-16-8F (hex) GN Netcom A/S
00168F (base 16) GN Netcom A/S
Metalbuen 66
Ballerup Skovlunde DK-2750
DK

48-7A-DA (hex) Hangzhou H3C Technologies Co., Limited
487ADA (base 16) Hangzhou H3C Technologies Co., Limited

466 Changhe Road,
Binjiang District
Hangzhou Zhejiang, P.R.China 310052
CN

10-78-D2 (hex) Elitegroup Computer Systems Co.,Ltd.
1078D2 (base 16) Elitegroup Computer Systems Co.,Ltd.
NO. 239, Sec. 2, Ti Ding Blvd.
Taipei Taiwan 11493
TW

00-21-97 (hex) Elitegroup Computer Systems Co.,Ltd.
002197 (base 16) Elitegroup Computer Systems Co.,Ltd.
NO.239, Sec. 2, Ti Ding Blvd.,
Taipei 11493
TW

00-1E-90 (hex) Elitegroup Computer Systems Co.,Ltd.
001E90 (base 16) Elitegroup Computer Systems Co.,Ltd.
No.239, Sec. 2, Ti Ding Blvd
Taipei 11493
TW

00-22-B1 (hex) Elbit Systems Ltd.
0022B1 (base 16) Elbit Systems Ltd.
p.o.b. 539
Haifa 36925
IL

00-00-B4 (hex) Edimax Technology Co. Ltd.
0000B4 (base 16) Edimax Technology Co. Ltd.
No. 278, Xinhu 1st Road
Taipei City Neihu Dist 248
TW

A0-8C-FD (hex) Hewlett Packard
A08CFD (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston
TX 77070
US

60-B3-87 (hex) Synergics Technologies GmbH
60B387 (base 16) Synergics Technologies GmbH
Hummelgasse 74-76/19
Vienna Austria 1130
AT

00-1F-45 (hex) Enterasys
001F45 (base 16) Enterasys
50 Minuteman Road
Andover MA 01810
US

00-0E-03 (hex) Emulex Corporation
000E03 (base 16) Emulex Corporation
3333 Susan Street
Costa Mesa CA 92626
US

00-0D-87 (hex) Elitegroup Computer Systems Co.,Ltd.
000D87 (base 16) Elitegroup Computer Systems Co.,Ltd.
No.22, Alley 38, Lane 91, Sec. 1, Nei Hu
Taipei 114
TW

FC-3F-7C (hex) HUAWEI TECHNOLOGIES CO.,LTD
FC3F7C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

38-4C-4F (hex) HUAWEI TECHNOLOGIES CO.,LTD
384C4F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

FC-08-4A
(hex) FUJITSU LIMITED
FC084A (base 16) FUJITSU LIMITED
403, Kosugi-cho 1-chome, Nakahara-ku
Kawasaki Kanagawa 211-0063
JP

00-CA-E5 (hex) Cisco Systems, Inc
00CAE5 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-42-68 (hex) Cisco Systems, Inc
004268 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

48-83-C7 (hex) Sagemcom Broadband SAS
4883C7 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

40-16-3B (hex) Samsung Electronics Co.,Ltd
40163B (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

48-55-5F (hex) Fiberhome Telecommunication Technologies Co.,LTD
48555F (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan City Hubei Province 430074
CN

BC-98-89 (hex) Fiberhome Telecommunication
Technologies Co.,LTD
BC9889 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan City Hubei Province 430074
CN

24-61-5A (hex) China Mobile Group Device Co.,Ltd.
24615A (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

04-A3-16 (hex) Texas Instruments
04A316 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

D4-F2-07 (hex) DIAODIAO(Beijing)Technology CO.,Ltd
D4F207 (base 16) DIAODIAO(Beijing)Technology CO.,Ltd
48D Image Base, No 3 Guangqu Road, Chaoyang District, Beijing, China
Beijing 100124
CN

D4-AD-2D (hex) Fiberhome Telecommunication Technologies Co.,LTD
D4AD2D (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan City Hubei Province 430074

CN

F0-8C-FB (hex) Fiberhome Telecommunication Technologies Co.,LTD
F08CFB (base 16) Fiberhome
Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan City Hubei Province 430074
CN

30-B4-9E (hex) TP-LINK TECHNOLOGIES CO.,LTD.
30B49E (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

34-E7-0B (hex) HAN Networks Co., Ltd
34E70B (base 16) HAN Networks Co., Ltd
5F,#37 Building,#8 Dongbeiwang Eest Road
Haidian District Beijing 100193
CN

00-78-88 (hex) Cisco Systems, Inc
007888 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

14-0C-5B (hex) PLNetworks
140C5B (base 16) PLNetworks
B-613, Tancheonsang-ro 164(Sigma 2)
Seongnam-si Bundang-gu, Gyeonggi-do 13631
KR

50-FF-99 (hex) IEEE Registration Authority
50FF99 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

84-E3-23 (hex) Green Wave Telecommunication
SDN BHD
84E323 (base 16) Green Wave Telecommunication SDN BHD
8, 12, 9 - Menara Mutiara, Bangsar, Jalan Liku, Off Jalan Bangsar
Kuala Lumpur 59100
MY

0C-BF-3F (hex) Shenzhen Lencotion Technology Co.,Ltd
0CBF3F (base 16) Shenzhen Lencotion Technology Co.,Ltd

LongGang,Buji Xia Shuijing,Hubei Baofeng Lndustrial Area,2/F,TowerB
shenzhen Guangdong 518112
CN

00-17-06 (hex) Techfaithwireless Communication Technology Limited.
001706 (base 16) Techfaithwireless Communication Technology Limited.
2/F M8 West No.1 Jiu Xian Qiao Dong Road,
Beijing 100016
CN

C8-38-70 (hex) Samsung Electronics Co.,Ltd
C83870 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

1C-55-3A (hex) QianGua Corp.
1C553A (base 16) QianGua Corp.
Room 1106, block B,No.391,Gui Ping Road
Xu Hui District ShangHai 200223
CN

00-8E-73 (hex) Cisco Systems, Inc
008E73 (base
16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

9C-9D-5D (hex) Raden Inc
9C9D5D (base 16) Raden Inc
15 Maiden Lane
New York NY 10038
US

DC-4D-23 (hex) MRV Comunications
DC4D23 (base 16) MRV Comunications
Hayetzira
Yokneam 614
IL

00-23-B3 (hex) Lyyn AB
0023B3 (base 16) Lyyn AB
IDEON Science Park
Lund 223 70
SE

24-8A-07 (hex) Mellanox Technologies, Inc.

248A07 (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

40-5E-E1 (hex) Shenzhen H&T Intelligent Control Co.,Ltd.
405EE1 (base 16) Shenzhen H&T Intelligent Control Co.,Ltd.
D-Zone,10/F,Shenzhen Academy of Aerospace Technology,Hi-Tech Park at Nanshan District,Shenzhen,China
Shenzhen 518000
CN

00-25-78 (hex) JSC Concern Sozvezdie
002578 (base 16) JSC Concern Sozvezdie
Plekhanovskaya st., 14
Voronezh 394018
RU

08-5B-DA (hex) CliniCare
LTD
085BDA (base 16) CliniCare LTD
HaSadna 11 Suite 207
Ra'anana 4365006
IL

1C-C0-35 (hex) PLANEX COMMUNICATIONS INC.
1CC035 (base 16) PLANEX COMMUNICATIONS INC.
Planex Volta Bldg., 2-11-9 Ebisu-Nishi,Shibuya-ku,Tokyo 150-0021,Japan
Tokyo Tokyo 150-0021
JP

58-32-77 (hex) Reliance Communications LLC
583277 (base 16) Reliance Communications LLC
555 Wireless Blvd
Hauppauge NY 11788
US

00-15-C1 (hex) Sony Interactive Entertainment Inc.
0015C1 (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

34-54-3C (hex) TAKAOKA TOKO CO.,LTD.
34543C (base 16) TAKAOKA TOKO CO.,LTD.
8F,SIA TOYOSU PRIME SQUARE,5-6-36,Toyosu
Koto-ku Tokyo 1350061
JP

90-03-25 (hex) HUAWEI TECHNOLOGIES CO.,LTD
900325 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

98-E7-F5 (hex) HUAWEI
TECHNOLOGIES CO.,LTD
98E7F5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A0-9D-91 (hex) SoundBridge
A09D91 (base 16) SoundBridge
#810, IT Convergence Industrial Bldg. 47, Gyeongdae-ro 17-Gil, Buk-gu,
Daegu 41566
KR

40-B6-88 (hex) LEGIC Identsystems AG
40B688 (base 16) LEGIC Identsystems AG
Binzackerstrasse 41
Wetzikon 8620
CH

9C-D4-8B (hex) Innolux Technology Europe BV
9CD48B (base 16) Innolux Technology Europe BV
Stationstraat 39G
Heerlen 6411NK
NL

90-A6-2F (hex) NAVER
90A62F (base 16) NAVER
NAVER Green Factory, 6, Buljeong-ro, Bundang-gu
Seongnam-si Gyeonggi-do 463-867
KR

C0-C5-22 (hex) ARRIS Group, Inc.
C0C522 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

1C-9E-46 (hex) Apple, Inc.
1C9E46 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino

CA 95014
US

9C-4F-DA (hex) Apple, Inc.
9C4FDA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-35-1A (hex) Cisco Systems, Inc
00351A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-AF-1F (hex) Cisco Systems, Inc
00AF1F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

C0-CC-F8 (hex) Apple, Inc.
C0CCF8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

40-2E-28 (hex) MiXTelematics
402E28 (base 16) MiXTelematics
Blaauwklip Office Park 2
Stellenbosch Cape Province 7600
ZA

6C-8F-B5 (hex) Microsoft Mobile Oy
6C8FB5 (base 16) Microsoft Mobile Oy
Keilalahdentie 4
Espoo 02150
FI

C4-E5-10 (hex) Mechatro, Inc.
C4E510 (base 16) Mechatro, Inc.
169-28, Gasan Digital 2-ro, Geumcheon-Gu
Seoul 08500
KR

80-38-96 (hex) SHARP Corporation
803896 (base

16) SHARP Corporation
1 Takumi-cho, Sakai-ku
Sakai City Osaka 590-8522
JP

84-89-AD (hex) Apple, Inc.
8489AD (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-60-EC (hex) HERMARY OPTO ELECTRONICS INC.
0060EC (base 16) HERMARY OPTO ELECTRONICS INC.
201-4050 GRAVELEY ST
BURNABY, BC V5C-3T6
CA

AC-3A-7A (hex) Roku, Inc.
AC3A7A (base 16) Roku, Inc.
12980 Saratoga Ave
Saratoga 95070
US

B8-3E-59 (hex) Roku, Inc.
B83E59 (base 16) Roku, Inc.
12980 Saratoga Ave.
Saratoga CA 95070
US

DC-3A-5E (hex) Roku, Inc.
DC3A5E (base 16) Roku, Inc.
12980 Saratoga Ave.
Saratoga CA 95070
US

00-50-7F (hex) DrayTek Corp.
00507F (base 16) DrayTek Corp.
26, Fushing Rd.
Hsinchu Hukou 303
TW

00-1A-73 (hex) Gemtek Technology Co., Ltd.
001A73 (base 16) Gemtek Technology Co., Ltd.
No. 1 Jen Ai Road, Hsinchu Industrial Park, Hukou,
Hsinchu
303
TW

00-90-4B (hex) Gemtek Technology Co., Ltd.
00904B (base 16) Gemtek Technology Co., Ltd.
No. 1 Jen Ai Road,
Hukou, Hsinchu, Taiwan 30352
TW

00-1A-7F (hex) GCI Science & Technology Co.,LTD
001A7F (base 16) GCI Science & Technology Co.,LTD
No.381, Xingangzhong Road,
guangzhou guangdong 510310
CN

00-24-D4 (hex) FREEBOX SAS
0024D4 (base 16) FREEBOX SAS
8 rue de la Ville l'Eveque
PARIS IdF 75008
FR

EC-F3-5B (hex) Nokia Corporation
ECF35B (base 16) Nokia Corporation
Joensuunkatu 7
Salo Varsinais-Suomi 24101
FI

54-44-08 (hex) Nokia Corporation
544408 (base 16) Nokia Corporation
Joensuunkatu 7
Salo Varsinais-Suomi 24101
FI

3C-C2-43 (hex) Nokia Corporation
3CC243 (base 16) Nokia Corporation
Joensuunkatu 7
Salo NA 24101
FI

34-7E-39 (hex) Nokia Danmark A/S
347E39 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-18-0F
(hex) Nokia Danmark A/S
00180F (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V Denmark 1790V
DK

C8-97-9F (hex) Nokia Corporation
C8979F (base 16) Nokia Corporation
Joensuunkatu 7
Salo Varsinais-Suomi 24101
FI

00-21-FC (hex) Nokia Danmark A/S
0021FC (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790V
DK

00-1F-5D (hex) Nokia Danmark A/S
001F5D (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790V
DK

00-1F-01 (hex) Nokia Danmark A/S
001F01 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790V
DK

00-19-79 (hex) Nokia Danmark A/S
001979 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-25-D0 (hex) Nokia Danmark A/S
0025D0 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-1B-EE (hex) Nokia Danmark A/S
001BEE (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen
V DK-1790
DK

00-17-5A (hex) Cisco Systems, Inc
00175A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568

US

00-90-A2 (hex) CyberTAN Technology Inc.
0090A2 (base 16) CyberTAN Technology Inc.
99, Park Avenue III
Hsinchu 12345
TW

00-90-D6 (hex) Crystal Group, Inc.
0090D6 (base 16) Crystal Group, Inc.
850 KACENA RD.
HIAWATHA IA 52233
US

64-77-91 (hex) Samsung Electronics Co.,Ltd
647791 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

9C-E6-E7 (hex) Samsung Electronics Co.,Ltd
9CE6E7 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

9C-02-98 (hex) Samsung Electronics Co.,Ltd
9C0298 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

28-98-7B (hex) Samsung Electronics Co.,Ltd
28987B (base 16) Samsung
Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

0C-71-5D (hex) Samsung Electronics Co.,Ltd
0C715D (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

BC-D1-1F (hex) Samsung Electronics Co.,Ltd
BCD11F (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong

Gumi Gyeongbuk 730-350
KR

F4-42-8F (hex) Samsung Electronics Co.,Ltd
F4428F (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

44-6D-6C (hex) Samsung Electronics Co.,Ltd
446D6C (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-F4-6F (hex) Samsung Electronics Co.,Ltd
00F46F (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

54-FA-3E (hex) Samsung Electronics Co.,Ltd
54FA3E (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do
16677
KR

0C-89-10 (hex) Samsung Electronics Co.,Ltd
0C8910 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

78-AB-BB (hex) Samsung Electronics Co.,Ltd
78ABBB (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

D4-76-EA (hex) zte corporation
D476EA (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

00-10-18 (hex) Broadcom
001018 (base 16) Broadcom

16215 ALTON PARKWAY
IRVINE CA 92619-7013
US

18-C0-86 (hex) Broadcom
18C086 (base 16) Broadcom
5300 California Avenue
Irvine CA 92617
US

D8-C4-E9 (hex) Samsung Electronics Co.,Ltd
D8C4E9 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

7C-1C-F1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
7C1CF1 (base 16) HUAWEI TECHNOLOGIES
CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

78-F5-57 (hex) HUAWEI TECHNOLOGIES CO.,LTD
78F557 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E0-28-61 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E02861 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D0-D0-4B (hex) HUAWEI TECHNOLOGIES CO.,LTD
D0D04B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

48-00-31 (hex) HUAWEI TECHNOLOGIES CO.,LTD
480031 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

4C-09-D4 (hex) Arcadyan Technology Corporation

4C09D4 (base 16) Arcadyan Technology Corporation
4F, No. 9, Park Avenue II
,
Hsinchu 300
TW

C8-FF-28 (hex) Liteon Technology Corporation
C8FF28 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

B8-16-19 (hex) ARRIS Group, Inc.
B81619 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

B0-77-AC (hex) ARRIS Group, Inc.
B077AC (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-24-93 (hex) ARRIS Group, Inc.
002493 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

9C-80-DF (hex) Arcadyan Technology Corporation
9C80DF (base 16) Arcadyan Technology Corporation
4F, No. 9, Park Avenue II ,
Hsinchu 300
TW

00-23-08 (hex) Arcadyan Technology Corporation
002308 (base 16) Arcadyan Technology Corporation
4F, No. 9, Park Avenue II ,
Hsinchu 300
TW

88-03-55 (hex) Arcadyan Technology Corporation
880355 (base 16) Arcadyan
Technology Corporation
4F., No.9 , Park Avenue II
Hsinchu 300
TW

34-BB-1F (hex) BlackBerry RTS
34BB1F (base 16) BlackBerry RTS
451 Phillip Street
Waterloo ON N2L 3X2
CA

FC-B4-E6 (hex) ASKEY COMPUTER CORP
FCB4E6 (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
TAIWAN NEW TAIPEI 23585
TW

08-96-D7 (hex) AVM GmbH
0896D7 (base 16) AVM GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

50-6A-03 (hex) NETGEAR
506A03 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

10-0D-7F (hex) NETGEAR
100D7F (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

50-4A-6E (hex) NETGEAR
504A6E (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

E0-46-9A (hex) NETGEAR
E0469A (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

40-6F-2A (hex) BlackBerry RTS
406F2A (base 16) BlackBerry
RTS
295 Phillip Street
Waterloo Ontario N2V 2S7

CA

30-46-9A (hex) NETGEAR
30469A (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

04-E6-76 (hex) AMPAK Technology, Inc.
04E676 (base 16) AMPAK Technology, Inc.
No.1,Jen Ai Road
Hsinchu 30352
TW

00-22-F4 (hex) AMPAK Technology, Inc.
0022F4 (base 16) AMPAK Technology, Inc.
No. 8-1, Nanyuan 2nd Rd.
Jhongli Taoyuan 320
TW

00-1D-BA (hex) Sony Corporation
001DBA (base 16) Sony Corporation
Gotenyama Tec,5-1-12,
Shinagawa-ku Tokyo 141-0001
JP

00-24-BE (hex) Sony Corporation
0024BE (base 16) Sony Corporation
Gotenyama Tec. 5-1-12
Shinagawa-ku Tokyo 141-0001
JP

00-0F-DE (hex) Sony Corporation
000FDE (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

00-1D-6B (hex) ARRIS Group, Inc.
001D6B (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego
CA 92121
US

00-1D-BE (hex) ARRIS Group, Inc.
001DBE (base 16) ARRIS Group, Inc.
6450 Sequence Drive

San Diego CA 92121
US

00-12-C9 (hex) ARRIS Group, Inc.
0012C9 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-19-2C (hex) ARRIS Group, Inc.
00192C (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-19-5E (hex) ARRIS Group, Inc.
00195E (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1A-1B (hex) ARRIS Group, Inc.
001A1B (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1A-66 (hex) ARRIS Group, Inc.
001A66 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1A-77 (hex) ARRIS Group, Inc.
001A77 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

20-E5-64 (hex) ARRIS Group, Inc.
20E564
(base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

90-B1-34 (hex) ARRIS Group, Inc.
90B134 (base 16) ARRIS Group, Inc.

6450 Sequence Drive
San Diego CA 92121
US

40-B7-F3 (hex) ARRIS Group, Inc.
40B7F3 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-15-D0 (hex) ARRIS Group, Inc.
0015D0 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-15-96 (hex) ARRIS Group, Inc.
001596 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-23-A2 (hex) ARRIS Group, Inc.
0023A2 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-23-ED (hex) ARRIS Group, Inc.
0023ED (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1B-52 (hex) ARRIS Group, Inc.
001B52 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego
CA 92121
US

00-1E-8D (hex) ARRIS Group, Inc.
001E8D (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1B-DD (hex) ARRIS Group, Inc.

001BDD (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-26-41 (hex) ARRIS Group, Inc.
002641 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

A4-ED-4E (hex) ARRIS Group, Inc.
A4ED4E (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-21-1E (hex) ARRIS Group, Inc.
00211E (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-21-80 (hex) ARRIS Group, Inc.
002180 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1B-59 (hex) Sony Corporation
001B59 (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

00-22-98 (hex) Sony Corporation
002298
(base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

24-21-AB (hex) Sony Corporation
2421AB (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

B8-F9-34 (hex) Sony Corporation
B8F934 (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

8C-64-22 (hex) Sony Corporation
8C6422 (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

00-17-E2 (hex) ARRIS Group, Inc.
0017E2 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-16-75 (hex) ARRIS Group, Inc.
001675 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-0C-E5 (hex) ARRIS Group, Inc.
000CE5 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-03-E0 (hex) ARRIS Group, Inc.
0003E0 (base
16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-00-6E (hex) Artisoft Inc.
00006E (base 16) Artisoft Inc.
691 EAST RIVER ROAD
TUCSON AZ 85704
US

00-DA-55 (hex) Cisco Systems, Inc
00DA55 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-04-E3 (hex) Accton Technology Corp
0004E3 (base 16) Accton Technology Corp
No. 1 Creation Rd. III,
Hsinchu Hsinchu TAIWAN
TW

00-10-B5 (hex) Accton Technology Corp
0010B5 (base 16) Accton Technology Corp
NO.1, CREATION RD. III
HSINCHU 300 12345
TW

00-19-74 (hex) 16063
001974 (base 16) 16063
1F , No. 21, Yanfa 2nd Rd., SBIP
Hsinchu City Hsinchu 300
TW

E0-B2-F1 (hex) FN-LINK TECHNOLOGY LIMITED
E0B2F1 (base 16) FN-LINK TECHNOLOGY LIMITED
5th Floor, A Building, Haoye Logistics Park, Shugang Channel, Bao'an District,
SHENZHEN GUANGDONG 518000
CN

0C-4C-39 (hex) MitraStar
Technology Corp.
0C4C39 (base 16) MitraStar Technology Corp.
4F No.6 Innovation Road II
Hsin-Chu 300
TW

E0-63-E5 (hex) Sony Corporation
E063E5 (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

F8-D0-AC (hex) Sony Interactive Entertainment Inc.
F8D0AC (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

0C-FE-45 (hex) Sony Interactive Entertainment Inc.
0CFE45 (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075

JP

20-16-D8 (hex) Liteon Technology Corporation
2016D8 (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road,ChungHo
New Taipei City Taipei 23585
TW

F0-27-2D (hex) Amazon Technologies Inc.
F0272D (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

84-D6-D0 (hex) Amazon Technologies Inc.
84D6D0 (base 16) Amazon Technologies
Inc.
P.O Box 8102
Reno NV 89507
US

00-D0-C9 (hex) ADVANTECH CO., LTD.
00D0C9 (base 16) ADVANTECH CO., LTD.
FL. 4, NO. 108-3
TAIPEI TAIPEI TAIWAN
TW

64-87-D7 (hex) ADB Broadband Italia
6487D7 (base 16) ADB Broadband Italia
VIALE SARCA 222
MILANO 20126
IT

38-22-9D (hex) ADB Broadband Italia
38229D (base 16) ADB Broadband Italia
VIALE SARCA 222
MILANO 20126
IT

A4-52-6F (hex) ADB Broadband Italia
A4526F (base 16) ADB Broadband Italia
via Sarca 222
Milano 20126
IT

74-88-8B (hex) ADB Broadband Italia
74888B (base 16) ADB Broadband Italia
via Sarca 222

Milano 20126
IT

00-8C-54 (hex) ADB Broadband Italia
008C54 (base 16) ADB Broadband Italia
VIALE SARCA 336
MILANO 20126
US

00-24-7B (hex) Actiontec Electronics, Inc
00247B (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

E8-61-7E
(hex) Liteon Technology Corporation
E8617E (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road,ChungHo,Taipei Hsien,Taiwan,
TaiPei TaiWan 23585
TW

18-CF-5E (hex) Liteon Technology Corporation
18CF5E (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road,ChungHo,Taipei Hsien,Taiwan,
TaiPei TaiWan 23585
TW

18-FE-34 (hex) Espressif Inc.
18FE34 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

00-22-43 (hex) AzureWave Technology Inc.
002243 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd., Xindian
Taipei 231
TW

18-E3-BC (hex) TCT mobile ltd
18E3BC (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

CC-1F-C4 (hex) InVue
CC1FC4 (base 16) InVue

15015 Lancaster Hwy
Charlotte NC 28277
US

5C-36-B8 (hex) TCL King Electrical Appliances
(Huizhou) Co., Ltd
5C36B8 (base 16) TCL King Electrical Appliances (Huizhou) Co., Ltd
7/FTCL Multimedia Building, TCL International E City, No.1001 Zhongshanyuan Road, Nanshan
Shenzhen Guangdong 518052
CN

00-AA-01 (hex) Intel Corporation
00AA01 (base 16) Intel Corporation
445
piscataway NJ 08554
US

00-AA-00 (hex) Intel Corporation
00AA00 (base 16) Intel Corporation
5200 NE ELAM YOUNG PARKWAY
HILLSBORO OR 97124
US

00-C2-C6 (hex) Intel Corporate
00C2C6 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

5C-D2-E4 (hex) Intel Corporate
5CD2E4 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

28-B2-BD (hex) Intel Corporate
28B2BD (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

98-5F-D3 (hex) Microsoft Corporation
985FD3 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND
WA 98052
US

44-85-00 (hex) Intel Corporate
448500 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

0C-D2-92 (hex) Intel Corporate
0CD292 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

68-5D-43 (hex) Intel Corporate
685D43 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

A0-36-9F (hex) Intel Corporate
A0369F (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

64-D4-DA (hex) Intel Corporate
64D4DA (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

40-25-C2 (hex) Intel Corporate
4025C2 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

50-2D-A2 (hex) Intel Corporate
502DA2 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

78-92-9C (hex) Intel Corporate
78929C
(base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

4C-79-BA (hex) Intel Corporate
4C79BA (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

84-A6-C8 (hex) Intel Corporate
84A6C8 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

58-91-CF (hex) Intel Corporate
5891CF (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

0C-8B-FD (hex) Intel Corporate
0C8BFD (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

84-3A-4B (hex) Intel Corporate
843A4B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

5C-51-4F (hex) Intel Corporate
5C514F (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

A4-4E-31 (hex) Intel Corporate
A44E31 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech
2/3
Kulim Kedah 09000
MY

DC-A9-71 (hex) Intel Corporate
DCA971 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000

MY

58-94-6B (hex) Intel Corporate
58946B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-24-D7 (hex) Intel Corporate
0024D7 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-24-D6 (hex) Intel Corporate
0024D6 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-1D-E0 (hex) Intel Corporate
001DE0 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

A0-A8-CD (hex) Intel Corporate
A0A8CD (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

5C-C5-D4 (hex) Intel Corporate
5CC5D4 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

4C-EB-42 (hex) Intel
Corporate
4CEB42 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

F8-16-54 (hex) Intel Corporate
F81654 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3

Kulim Kedah 09000
MY

60-6C-66 (hex) Intel Corporate
606C66 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

4C-80-93 (hex) Intel Corporate
4C8093 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

AC-72-89 (hex) Intel Corporate
AC7289 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

60-5B-B4 (hex) AzureWave Technology Inc.
605BB4 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.,
New Taipei City Taiwan 231
TW

64-D9-54 (hex) Taicang T&W Electronics
64D954 (base 16) Taicang T&W Electronics
89# Jiang Nan RD, Lu Du,
Taicang Jiangsu 215412
CN

00-1E-64 (hex) Intel Corporate
001E64
(base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-21-5C (hex) Intel Corporate
00215C (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-21-6B (hex) Intel Corporate
00216B (base 16) Intel Corporate

Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-22-FB (hex) Intel Corporate
0022FB (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-15-17 (hex) Intel Corporate
001517 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

24-7C-4C (hex) Herman Miller
247C4C (base 16) Herman Miller
Unit 2, 2/F The Factory, 1 Yip Fat Street
Wong Chuk Hang -
HK

E4-6F-13 (hex) D-Link International
E46F13 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy, Singapore
Singapore Singapore 609917
SG

1C-44-19 (hex) TP-LINK TECHNOLOGIES
CO.,LTD.
1C4419 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

00-26-91 (hex) Sagemcom Broadband SAS
002691 (base 16) Sagemcom Broadband SAS
Le Ponnant de Paris
CEDEX Paris 75512
FR

98-8B-5D (hex) Sagemcom Broadband SAS
988B5D (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
Rueil Malmaison 92848
FR

90-01-3B (hex) Sagemcom Broadband SAS

90013B (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
Rueil Malmaison Cedex Hauts de Seine 92848
FR

7C-03-4C (hex) Sagemcom Broadband SAS
7C034C (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
Rueil Malmaison Cedex Hauts de Seine 92848
FR

6C-2E-85 (hex) Sagemcom Broadband SAS
6C2E85 (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
Rueil Malmaison Cedex Hauts de Seine
92848
FR

94-FE-F4 (hex) Sagemcom Broadband SAS
94FEF4 (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
Rueil Malmaison Cedex Hauts de Seine 92848
FR

28-FA-A0 (hex) vivo Mobile Communication Co., Ltd.
28FAA0 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

EC-DF-3A (hex) vivo Mobile Communication Co., Ltd.
ECDF3A (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

5C-35-3B (hex) Compal Broadband Networks, Inc.
5C353B (base 16) Compal Broadband Networks, Inc.
13F., No.1, Taiyuan 1st St.
Zhubei City Hsinchu County 30265
TW

00-60-4C (hex) Sagemcom Broadband SAS
00604C (base 16) Sagemcom Broadband SAS
27 RUE LEBLANC
CEDEX 15 PARIS 75512
FR

00-1F-95 (hex) Sagemcom Broadband SAS
001F95 (base 16) Sagemcom Broadband SAS
Le Ponnant de
Paris
CEDEX Paris 75512
FR

00-23-48 (hex) Sagemcom Broadband SAS
002348 (base 16) Sagemcom Broadband SAS
Le Ponnant de Paris
CEDEX Paris 75512
FR

44-87-23 (hex) HOYA SERVICE CORPORATION
448723 (base 16) HOYA SERVICE CORPORATION
4-10-2 Nakano
Nakano-ku Tokyo 164-8545
JP

D8-6C-02 (hex) Huaqin Telecom Technology Co.,Ltd
D86C02 (base 16) Huaqin Telecom Technology Co.,Ltd
No.1 Building,399 Keyuan Road, Zhangjian Hi-Tech Park, Pudong New Area
Shanghai 201203
CN

60-BE-B5 (hex) Motorola Mobility LLC, a Lenovo Company
60BEB5 (base 16) Motorola Mobility LLC, a Lenovo Company
600 North US Highway 45
Libertyville IL 60048
US

F8-F1-B6 (hex) Motorola Mobility LLC, a Lenovo Company
F8F1B6 (base 16) Motorola Mobility LLC, a Lenovo Company
600 North US Highway 45
Libertyville IL 60048
US

3C-FD-FE (hex) Intel Corporate
3CFDFE (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech
2/3
Kulim Kedah 09000
MY

A4-C4-94 (hex) Intel Corporate
A4C494 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000

MY

90-2E-1C (hex) Intel Corporate
902E1C (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

A4-34-D9 (hex) Intel Corporate
A434D9 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

F4-F1-E1 (hex) Motorola Mobility LLC, a Lenovo Company
F4F1E1 (base 16) Motorola Mobility LLC, a Lenovo Company
222 Merchandise Mart Plaza, Suite 1800
Chicago IL 60654
US

9C-D9-17 (hex) Motorola Mobility LLC, a Lenovo Company
9CD917 (base 16) Motorola Mobility LLC, a Lenovo Company
222 Merchandise Mart Plaza, Suite 1800
Chicago IL 60654
US

90-68-C3 (hex) Motorola Mobility LLC, a Lenovo Company
9068C3 (base 16) Motorola Mobility LLC, a Lenovo Company
222 Merchandise Mart Plaza, Suite 1800
Chicago
IL 60654
US

3C-19-7D (hex) Ericsson AB
3C197D (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

34-EF-44 (hex) 2Wire Inc
34EF44 (base 16) 2Wire Inc
1764 Automation Pkwy
San Jose CA 95131
US

B0-E7-54 (hex) 2Wire Inc
B0E754 (base 16) 2Wire Inc
1764 Automation Parkway

San Jose 95131
US

B8-E6-25 (hex) 2Wire Inc
B8E625 (base 16) 2Wire Inc
1764 Automation Parkway
San Jose 95131
US

00-1D-5A (hex) 2Wire Inc
001D5A (base 16) 2Wire Inc
1704 Automation Parkway
San Jose 95131
US

00-25-3C (hex) 2Wire Inc
00253C (base 16) 2Wire Inc
1764 Automation Parkway
San Jose CA 95131
US

F4-29-81 (hex) vivo Mobile Communication Co., Ltd.
F42981 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

84-F6-FA (hex) Miovision Technologies Incorporated
84F6FA (base 16) Miovision
Technologies Incorporated
148 Manitou Drive
KITCHENER Ontario N2C1L4
CA

70-10-6F (hex) Hewlett Packard Enterprise
70106F (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

F8-E7-1E (hex) Ruckus Wireless
F8E71E (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

00-17-83 (hex) Texas Instruments
001783 (base 16) Texas Instruments

12500 TI Boulevard, MS 8723
Dallas TX 75243
US

34-B1-F7 (hex) Texas Instruments
34B1F7 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

2C-FD-37 (hex) Blue Calypso, Inc.
2CFD37 (base 16) Blue Calypso, Inc.
101 West Renner RD Suite 280
Richardson TX 75082
US

0C-61-27 (hex) Actiontec Electronics, Inc
0C6127 (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

08-86-3B (hex) Belkin International Inc.
08863B
(base 16) Belkin International Inc.
12045 East Waterfront Drive
Playa Vista CA 90094
US

2C-56-DC (hex) ASUSTek COMPUTER INC.
2C56DC (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

3C-D9-2B (hex) Hewlett Packard
3CD92B (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

90-D7-EB (hex) Texas Instruments
90D7EB (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

78-DE-E4 (hex) Texas Instruments

78DEE4 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

00-18-33 (hex) Texas Instruments
001833 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

00-18-34 (hex) Texas Instruments
001834 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

00-17-E3 (hex) Texas Instruments
0017E3
(base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

00-18-30 (hex) Texas Instruments
001830 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

00-23-D4 (hex) Texas Instruments
0023D4 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

C0-E4-22 (hex) Texas Instruments
C0E422 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

D0-07-90 (hex) Texas Instruments
D00790 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

3C-7D-B1 (hex) Texas Instruments
3C7DB1 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

00-F8-71 (hex) Demant A/S
00F871 (base 16) Demant A/S
Kongebakken 9
Smørum 2765
DK

00-21-91 (hex) D-Link Corporation
002191 (base 16) D-Link Corporation
NO.289, Sinhu 3rd Rd.,
Neihu
District, Taipei City 114
TW

F4-FC-32 (hex) Texas Instruments
F4FC32 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

24-35-CC (hex) Zhongshan Scinan Internet of Things Co.,Ltd.
2435CC (base 16) Zhongshan Scinan Internet of Things Co.,Ltd.
15/F Bldg 1·Dezhong Plaza Torch Development Zone Zhongshan·Guangdong
ZhongShan GuangDong 528437
CN

2C-30-33 (hex) NETGEAR
2C3033 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

BC-44-34 (hex) Shenzhen TINNO Mobile Technology Corp.
BC4434 (base 16) Shenzhen TINNO Mobile Technology Corp.
Building, No.33, Xiandong Rd, Xili
Nanshan District, Shenzhen PRC 518053
CN

04-BF-6D (hex) Zyxel Communications Corporation
04BF6D (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

CC-46-D6 (hex) Cisco Systems, Inc
CC46D6 (base 16) Cisco Systems,
Inc
80 West Tasman Drive
San Jose CA 94568
US

00-41-D2 (hex) Cisco Systems, Inc
0041D2 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

0C-D7-46 (hex) Apple, Inc.
0CD746 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

60-A3-7D (hex) Apple, Inc.
60A37D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

68-DB-CA (hex) Apple, Inc.
68DBCA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

08-66-98 (hex) Apple, Inc.
086698 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

BC-54-36 (hex) Apple, Inc.
BC5436 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

04-4B-ED (hex) Apple, Inc.
044BED (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

6C-8D-C1 (hex) Apple, Inc.
6C8DC1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA
95014
US

AC-F1-DF (hex) D-Link International
ACF1DF (base 16) D-Link International
1 International Business Park, #03-12, The Synergy
SINGAPORE 609917
SG

BC-F6-85 (hex) D-Link International
BCF685 (base 16) D-Link International
1 International Business Park, #03-12, The Synergy
SINGAPORE 609917
SG

78-54-2E (hex) D-Link International
78542E (base 16) D-Link International
1 Internal Business Park, #03-12.
SINGAPORE Singapore 609917
TW

C4-A8-1D (hex) D-Link International
C4A81D (base 16) D-Link International
1 Internal Business Park, #03-12,
SINGAPORE Singapore 609917
SG

F8-8F-CA (hex) Google, Inc.
F88FCA (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View 94043
US

2C-AB-00 (hex) HUAWEI TECHNOLOGIES CO.,LTD
2CAB00 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-CA-7B
(hex) HUAWEI TECHNOLOGIES CO.,LTD
A8CA7B (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

88-B8-D0 (hex) Dongguan Koppo Electronic Co.,Ltd
88B8D0 (base 16) Dongguan Koppo Electronic Co.,Ltd
No.2, Third Road, Buxinji Industrial Area, Guanjingtou Village, Fenggang Town, Dongguan City, Guangdong Province, China
Dongguan 523705
CN

60-19-71 (hex) ARRIS Group, Inc.
601971 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

58-AC-78 (hex) Cisco Systems, Inc
58AC78 (base 16) Cisco Systems, Inc
80 West Tasman Dr.
San Jose CA 94568
US

FC-FF-AA (hex) IEEE Registration Authority
FCFFAA (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

38-98-D8 (hex) MERITECH CO.,LTD
3898D8 (base 16) MERITECH CO.,LTD
52-17 Sinjeon-Ro 41beon-gil
Giheung-gu, Yongin-City
Kyungki-do 446-599
KR

94-86-CD (hex) SEOUL ELECTRONICS&TELECOM
9486CD (base 16) SEOUL ELECTRONICS&TELECOM
709, Namkwangcentrex 440-4, Cheongcheon-dong,
Bupyeong-gu Incheon 403-030
KR

5C-57-1A (hex) ARRIS Group, Inc.
5C571A (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

E8-89-2C (hex) ARRIS Group, Inc.
E8892C (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

84-AC-FB (hex) Crouzet Automatismes
84ACFB (base 16) Crouzet Automatismes
2 rue du docteur Abel
Valence France 26902
FR

7C-BB-8A (hex) Nintendo Co., Ltd.
7CBB8A (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

38-97-D6 (hex) Hangzhou H3C Technologies Co., Limited
3897D6 (base 16) Hangzhou H3C Technologies Co., Limited
466 Changhe Road, Binjiang District
Hangzhou Zhejiang, P.R.China 310052
CN

1C-A7-70
(hex) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
1CA770 (base 16) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
Unit A 13-16/F,Skyworth Bldg., Gaoxin Ave.1.S.,Nanshan District
ShenZhen GuangDong 518057
CN

94-87-7C (hex) ARRIS Group, Inc.
94877C (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

40-70-09 (hex) ARRIS Group, Inc.
407009 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

08-3E-0C (hex) ARRIS Group, Inc.
083E0C (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

20-73-55 (hex) ARRIS Group, Inc.
207355 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

F8-ED-A5 (hex) ARRIS Group, Inc.
F8EDA5 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

54-65-DE (hex) ARRIS Group, Inc.
5465DE (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego
CA 92121
US

6C-CA-08 (hex) ARRIS Group, Inc.
6CCA08 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

D4-05-98 (hex) ARRIS Group, Inc.
D40598 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

E8-33-81 (hex) ARRIS Group, Inc.
E83381 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

8C-7F-3B (hex) ARRIS Group, Inc.
8C7F3B (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

3C-36-E4 (hex) ARRIS Group, Inc.
3C36E4 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121

US

1C-1B-68 (hex) ARRIS Group, Inc.
1C1B68 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

88-96-B6 (hex) Global Fire Equipment S.A.
8896B6 (base 16) Global Fire Equipment S.A.
Sitio dos Barrabés, Armazém Nave Y,
São Brás de Alportel Faro 8150-016
PT

00-0D-0B
(hex) BUFFALO.INC
000D0B (base 16) BUFFALO.INC
MELCO HI-TECH CENTER,
NAGOYA 457-8520
JP

00-1D-73 (hex) BUFFALO.INC
001D73 (base 16) BUFFALO.INC
15,Shibata Hondori 4-chome,
Nagoya Aichi Pref. 457-8520
JP

00-16-01 (hex) BUFFALO.INC
001601 (base 16) BUFFALO.INC
AKAMONDORI Bldg., 30-20,Ohsu 3-chome
Naka-ku,Nagoya Aichi Pref. 460-8315
JP

74-03-BD (hex) BUFFALO.INC
7403BD (base 16) BUFFALO.INC
AKAMONDORI Bldg, 30-20, Ohsu 3-chome,
Minami-ku, Nagoya Aichi Pref. 457-8520
JP

B8-FC-9A (hex) Le Shi Zhi Xin Electronic Technology (Tianjin) Limited
B8FC9A (base 16) Le Shi Zhi Xin Electronic Technology (Tianjin) Limited
,Le Shi Building, No.105 Yaojiayuan Road,Chaoyang District,Beijing,China
beijing beijing 100025
CN

CC-3E-5F (hex) Hewlett Packard
CC3E5F (base 16) Hewlett Packard
11445 Compaq Center Drive

Houston 77070
US

D8-9D-67 (hex) Hewlett Packard
D89D67
(base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

A4-5D-36 (hex) Hewlett Packard
A45D36 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

F0-92-1C (hex) Hewlett Packard
F0921C (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

A0-48-1C (hex) Hewlett Packard
A0481C (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

A0-1D-48 (hex) Hewlett Packard
A01D48 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

00-04-23 (hex) Intel Corporation
000423 (base 16) Intel Corporation
M/S: JF3-420
Hillsboro OR 97124
US

00-11-11 (hex) Intel Corporation
001111 (base 16) Intel Corporation
2111 NE 25th Avenue
Hillsboro OR 97124
US

00-13-02 (hex) Intel Corporate
001302 (base 16) Intel Corporate

Lot 8, Jalan Hi-tech 2/3
Kulim Kedah
09000
MY

40-A8-F0 (hex) Hewlett Packard
40A8F0 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

88-51-FB (hex) Hewlett Packard
8851FB (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

08-2E-5F (hex) Hewlett Packard
082E5F (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

E4-11-5B (hex) Hewlett Packard
E4115B (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

28-92-4A (hex) Hewlett Packard
28924A (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

00-14-C2 (hex) Hewlett Packard
0014C2 (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-80-5F (hex) Hewlett Packard
00805F (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

28-80-23 (hex) Hewlett Packard

288023 (base 16) Hewlett
Packard
11445 Compaq Center Drive
Houston 77070
US

78-0A-C7 (hex) Baofeng TV Co., Ltd.
780AC7 (base 16) Baofeng TV Co., Ltd.
Room 2D, Building 5D, Nanshan District Software Industry Base
ShenZhen GuangDong 518000
CN

00-18-FE (hex) Hewlett Packard
0018FE (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-1A-4B (hex) Hewlett Packard
001A4B (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-24-81 (hex) Hewlett Packard
002481 (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-0F-61 (hex) Hewlett Packard
000F61 (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

8C-AB-8E (hex) Shanghai Feixun Communication Co.,Ltd.
8CAB8E (base 16) Shanghai Feixun Communication Co.,Ltd.
No.3666,Sixian Rd.,Songjiang District,Shanghai,P.R.China
Shanghai Shanghai 201616
CN

90-60-F1
(hex) Apple, Inc.
9060F1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A4-51-6F (hex) Microsoft Mobile Oy
A4516F (base 16) Microsoft Mobile Oy
Keilalahdentie 4
Espoo 02150
FI

FC-64-BA (hex) Xiaomi Communications Co Ltd
FC64BA (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

D4-0B-1A (hex) HTC Corporation
D40B1A (base 16) HTC Corporation
No. 23, Xinghua Rd.
Taoyuan County Taiwan 330
TW

94-53-30 (hex) Hon Hai Precision Ind. Co.,Ltd.
945330 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

4C-D0-8A (hex) HUMAX Co., Ltd.
4CD08A (base 16) HUMAX Co., Ltd.
HUMAX Village,216,Hwangsaeul-ro,
Seongnam-si Gyeonggi-do 463875
KR

CC-4E-EC (hex) HUMAX Co., Ltd.
CC4EEC (base 16) HUMAX Co.,
Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bundang-gu,
Seongnam-si Gyeonggi-do 463-875
KR

40-3D-EC (hex) HUMAX Co., Ltd.
403DEC (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bundang-gu,
Seongnam-si Gyeonggi-do 463-875
KR

EC-4D-47 (hex) HUAWEI TECHNOLOGIES CO.,LTD
EC4D47 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

C4-40-44 (hex) RackTop Systems Inc.
C44044 (base 16) RackTop Systems Inc.
11840 W Market Pl Suite K
Fulton MD 20759
US

4C-A1-61 (hex) Rain Bird Corporation
4CA161 (base 16) Rain Bird Corporation
970 West Sierra Madre Ave.
AZUSA CA 91702
US

A0-8D-16 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A08D16 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan Guangdong 523808
CN

00-24-2B (hex) Hon Hai Precision Ind. Co.,Ltd.
00242B
(base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

F8-D1-11 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
F8D111 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
1-6F, Building 2, Pingshandayuan Industrial, South Zone,
Shenzhen Guangdong 518000
CN

B0-48-7A (hex) TP-LINK TECHNOLOGIES CO.,LTD.
B0487A (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
1-6F, Building 2, Pingshandayuan Industrial, South Zone,
Shenzhen Guangdong 518000
CN

94-0C-6D (hex) TP-LINK TECHNOLOGIES CO.,LTD.
940C6D (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 7, Second Part, Honghualing Industrial Zone
Shenzhen Guangdong 518000
CN

54-27-58 (hex) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
542758 (base 16) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
No.19, Gaoxin 4th Road, Wuhan East Lake High-tech Zone, Wuhan

Wuhan Hubei 430000
CN

48-0F-CF
(hex) Hewlett Packard
480FCF (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

00-04-80 (hex) Brocade Communications Systems LLC
000480 (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

00-0C-DB (hex) Brocade Communications Systems LLC
000CDB (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

00-1B-ED (hex) Brocade Communications Systems LLC
001BED (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

00-05-33 (hex) Brocade Communications Systems LLC
000533 (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

00-60-69 (hex) Brocade Communications Systems LLC
006069 (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

00-60-DF (hex) Brocade Communications
Systems LLC
0060DF (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

00-00-88 (hex) Brocade Communications Systems LLC

000088 (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

2C-08-8C (hex) HUMAX Co., Ltd.
2C088C (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

1C-99-4C (hex) Murata Manufacturing Co., Ltd.
1C994C (base 16) Murata Manufacturing Co., Ltd.
1-10-1 Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

F0-27-65 (hex) Murata Manufacturing Co., Ltd.
F02765 (base 16) Murata Manufacturing Co., Ltd.
1-10-1 Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

5C-F8-A1 (hex) Murata Manufacturing Co., Ltd.
5CF8A1 (base 16) Murata Manufacturing Co., Ltd.
1-10-1 Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

44-A7-CF (hex) Murata Manufacturing
Co., Ltd.
44A7CF (base 16) Murata Manufacturing Co., Ltd.
2288, Oaza-Ohshinohara, Yasu-cho,
Yasu-gun Shiga 520-2393
JP

00-13-E0 (hex) Murata Manufacturing Co., Ltd.
0013E0 (base 16) Murata Manufacturing Co., Ltd.
2288, Oaza-Ohshinohara, Yasu-cho,
Yasu-gun Shiga 520-2393
JP

08-18-1A (hex) zte corporation
08181A (base 16) zte corporation
12/F ZTE Plaza,Keji Road South,Hi-Tech Industrial Park,Nanshan District,
Shenzhen GUANGDONG 518057
CN

00-1E-73 (hex) zte corporation
001E73 (base 16) zte corporation
12/F ZTE Plaza,Keji Road South,Hi-Tech Industrial Park,Nanshan District,
Shenzhen GUANGDONG 518057
CN

00-15-EB (hex) zte corporation
0015EB (base 16) zte corporation
5/F,A Wing,ZTE Plaza,Keji Road South,Hi-Tech Industrial Park,Nanshan District
Shenzhen 518057
US

00-1C-25 (hex) Hon Hai Precision Ind. Co.,Ltd.
001C25 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building
D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

00-19-7E (hex) Hon Hai Precision Ind. Co.,Ltd.
00197E (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

90-FB-A6 (hex) Hon Hai Precision Ind. Co.,Ltd.
90FBA6 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

44-37-E6 (hex) Hon Hai Precision Ind. Co.,Ltd.
4437E6 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

CC-AF-78 (hex) Hon Hai Precision Ind. Co.,Ltd.
CCAF78 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

F4-B7-E2 (hex) Hon Hai Precision Ind. Co.,Ltd.
F4B7E2 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

78-59-68
(hex) Hon Hai Precision Ind. Co.,Ltd.
785968 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

64-70-02 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
647002 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park,Shennan Rd, Nanshan,
Shenzhen Guangdong Province, 518057
CN

10-FE-ED (hex) TP-LINK TECHNOLOGIES CO.,LTD.
10FEED (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park
Shenzhen Guangdong 518057
CN

64-56-01 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
645601 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4)
Shennan Rd, Nanshan Shenzhen,Guangdong Province 518057
CN

EC-CB-30 (hex) HUAWEI TECHNOLOGIES CO.,LTD
ECCB30 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2
Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F4-DC-F9 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F4DCF9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

EC-26-CA (hex) TP-LINK TECHNOLOGIES CO.,LTD.
EC26CA (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4)
Shennan Rd, Nanshan Shenzhen,Guangdong Province 518057
CN

94-71-AC (hex) TCT mobile ltd
9471AC (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District

Hui Zhou Guang Dong 516006
CN

00-66-4B (hex) HUAWEI TECHNOLOGIES CO.,LTD
00664B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

9C-C1-72 (hex) HUAWEI TECHNOLOGIES CO.,LTD
9CC172 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake
Technology Park
Dongguan 523808
CN

24-7F-3C (hex) HUAWEI TECHNOLOGIES CO.,LTD
247F3C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C8-D1-5E (hex) HUAWEI TECHNOLOGIES CO.,LTD
C8D15E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District
Shenzhen Guangdong 518057
CN

F4-55-9C (hex) HUAWEI TECHNOLOGIES CO.,LTD
F4559C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District
Shenzhen Guangdong 518057
CN

80-B6-86 (hex) HUAWEI TECHNOLOGIES CO.,LTD
80B686 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District
Shenzhen Guangdong 518057
CN

10-C6-1F (hex) HUAWEI TECHNOLOGIES CO.,LTD
10C61F (base 16) HUAWEI
TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District
Shenzhen Guangdong 518057
CN

CC-96-A0 (hex) HUAWEI TECHNOLOGIES CO.,LTD

CC96A0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District,
Shenzhen Guangdong 518108
CN

58-1F-28 (hex) HUAWEI TECHNOLOGIES CO.,LTD
581F28 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C0-70-09 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C07009 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

80-38-BC (hex) HUAWEI TECHNOLOGIES CO.,LTD
8038BC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-07-2F (hex) HUAWEI TECHNOLOGIES CO.,LTD
C4072F
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F4-8E-92 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F48E92 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

24-1F-A0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
241FA0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

70-54-F5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
7054F5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
ShenZhen GuangDong 518129
CN

90-17-AC (hex) HUAWEI TECHNOLOGIES CO.,LTD
9017AC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base
Shenzhen Guangdong 518129
CN

18-C5-8A (hex) HUAWEI TECHNOLOGIES CO.,LTD
18C58A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial
Base
Shenzhen Guangdong 518129
CN

34-CD-BE (hex) HUAWEI TECHNOLOGIES CO.,LTD
34CDBE (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate
Shenzhen GuangDong 518057
CN

D8-49-0B (hex) HUAWEI TECHNOLOGIES CO.,LTD
D8490B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
Shenzhen 518129
CN

C0-57-BC (hex) Avaya Inc
C057BC (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

64-A7-DD (hex) Avaya Inc
64A7DD (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

A4-25-1B (hex) Avaya Inc
A4251B (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

64-6A-52 (hex) Avaya Inc
646A52 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

F8-01-13 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F80113 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building
17,Nangang Industrial Park
Shenzhen Guangdong 518057
CN

A4-99-47 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A49947 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park,
Shenzhen Guangdong 518057
CN

30-87-30 (hex) HUAWEI TECHNOLOGIES CO.,LTD
308730 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District,
Shenzhen Guangdong 518108
CN

44-32-2A (hex) Avaya Inc
44322A (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

70-38-EE (hex) Avaya Inc
7038EE (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

70-30-18 (hex) Avaya Inc
703018 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

9C-28-EF (hex) HUAWEI TECHNOLOGIES CO.,LTD
9C28EF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
ShenZhen
GuangDong 518129
CN

00-60-83 (hex) Cisco Systems, Inc
006083 (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE

SAN JOSE CA 95134-1706
US

00-60-09 (hex) Cisco Systems, Inc
006009 (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

00-06-7C (hex) Cisco Systems, Inc
00067C (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

00-E0-F7 (hex) Cisco Systems, Inc
00E0F7 (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

00-50-73 (hex) Cisco Systems, Inc
005073 (base 16) Cisco Systems, Inc
170 W. TASMAN DR.
SAN JOSE CA 95134-1706
US

00-90-0C (hex) Cisco Systems, Inc
00900C (base 16) Cisco Systems, Inc
170 W. TASMAN DR.
SAN JOSE CA 95134-1706
US

00-90-5F (hex) Cisco Systems, Inc
00905F (base 16) Cisco Systems, Inc
170 W. TASMAN DR.
SAN JOSE CA 95134-1706
US

00-10-0B
(hex) Cisco Systems, Inc
00100B (base 16) Cisco Systems, Inc
170 W. TASMAN DR.
SAN JOSE CA 95134-1706
US

00-17-3B (hex) Cisco Systems, Inc
00173B (base 16) Cisco Systems, Inc

170 West Tasman Dr.
San Jose CA 95134-1706
US

F0-B4-29 (hex) Xiaomi Communications Co Ltd
F0B429 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

00-10-7B (hex) Cisco Systems, Inc
00107B (base 16) Cisco Systems, Inc
170 W.TASMAN DR.-SJA-2
SAN JOSE CA 95134-1706
US

00-50-E2 (hex) Cisco Systems, Inc
0050E2 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

08-00-28 (hex) Texas Instruments
080028 (base 16) Texas Instruments
12500 TI Boulevard
Dallas 75243
US

40-5F-C2 (hex) Texas Instruments
405FC2 (base 16) Texas Instruments
12500 TI Boulevard
Dallas
TX 75243
US

20-CD-39 (hex) Texas Instruments
20CD39 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

B4-99-4C (hex) Texas Instruments
B4994C (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

E4-D3-F1 (hex) Cisco Systems, Inc

E4D3F1 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

84-78-AC (hex) Cisco Systems, Inc
8478AC (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

04-DA-D2 (hex) Cisco Systems, Inc
04DAD2 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

F0-29-29 (hex) Cisco Systems, Inc
F02929 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

20-BB-C0 (hex) Cisco Systems, Inc
20BBC0 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

4C-4E-35 (hex) Cisco Systems, Inc
4C4E35
(base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

68-DF-DD (hex) Xiaomi Communications Co Ltd
68DFDD (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

98-FA-E3 (hex) Xiaomi Communications Co Ltd
98FAE3 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

00-90-A6 (hex) Cisco Systems, Inc
0090A6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-90-86 (hex) Cisco Systems, Inc
009086 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-50-80 (hex) Cisco Systems, Inc
005080 (base 16) Cisco Systems, Inc
170 W. TASMAN DR.
SAN JOSE CA 95134-1706
US

EC-24-B8 (hex) Texas Instruments
EC24B8 (base 16) Texas Instruments
12500
TI BLVD
Dallas 75243
US

7C-EC-79 (hex) Texas Instruments
7CEC79 (base 16) Texas Instruments
12500 TI BLVD
Dallas 75243
US

68-9E-19 (hex) Texas Instruments
689E19 (base 16) Texas Instruments
12500 TI BLVD
Dallas 75243
US

E0-E5-CF (hex) Texas Instruments
E0E5CF (base 16) Texas Instruments
12500 TI BLVD
Dallas 75243
US

00-1B-D7 (hex) Cisco SPVTG
001BD7 (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

00-24-8C (hex) ASUSTek COMPUTER INC.
00248C (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd.,Peitou,Taipei 112 ,Taiwan
Taipei Taiwan 112
TW

00-23-54 (hex) ASUSTek COMPUTER INC.
002354 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd.,Peitou,Taipei 112 ,Taiwan
Taipei Taiwan 112
TW

1C-87-2C (hex) ASUSTek COMPUTER INC.
1C872C (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd.., Peitou,
Taipei 112
TW

60-18-2E
(hex) ShenZhen Protruly Electronic Ltd co.
60182E (base 16) ShenZhen Protruly Electronic Ltd co.
ShenNan Road 1004
Shen Zhen GuangDong 518000
CN

C4-14-3C (hex) Cisco Systems, Inc
C4143C (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

3C-08-F6 (hex) Cisco Systems, Inc
3C08F6 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

78-BA-F9 (hex) Cisco Systems, Inc
78BAF9 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

00-22-CE (hex) Cisco SPVTG
0022CE (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30042

US

00-0F-66 (hex) Cisco-Linksys, LLC
000F66 (base 16) Cisco-Linksys, LLC
121 Theory Dr.
Irvine CA 92612
US

00-1E-8C (hex) ASUSTek COMPUTER INC.
001E8C (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd.,Peitou
Taipei 112
TW

00-13-D4 (hex) ASUSTek COMPUTER
INC.
0013D4 (base 16) ASUSTek COMPUTER INC.
No.5 Shing Yeh Street
Tao Yuan Hsien 333
TW

20-CF-30 (hex) ASUSTek COMPUTER INC.
20CF30 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd.,Peitou,Taipei 112 ,Taiwan
Taipei Taiwan 112
TW

50-1C-BF (hex) Cisco Systems, Inc
501CBF (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

B0-00-B4 (hex) Cisco Systems, Inc
B000B4 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

54-4A-00 (hex) Cisco Systems, Inc
544A00 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

00-E1-6D (hex) Cisco Systems, Inc
00E16D (base 16) Cisco Systems, Inc
170 West Tasman Drive

San Jose CA 95134
US

BC-16-65 (hex) Cisco Systems, Inc
BC1665 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

F8-72-EA (hex) Cisco Systems, Inc
F872EA
(base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

D0-C7-89 (hex) Cisco Systems, Inc
D0C789 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

F8-4F-57 (hex) Cisco Systems, Inc
F84F57 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

7C-69-F6 (hex) Cisco Systems, Inc
7C69F6 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

78-DA-6E (hex) Cisco Systems, Inc
78DA6E (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

E0-D1-73 (hex) Cisco Systems, Inc
E0D173 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

E0-89-9D (hex) Cisco Systems, Inc
E0899D (base 16) Cisco Systems, Inc

170 West Tasman Drive
San Jose CA 95134
US

C4-72-95 (hex) Cisco Systems, Inc
C47295 (base 16) Cisco Systems, Inc
170 West Tasman
Drive
San Jose CA 95134
US

24-37-4C (hex) Cisco SPVTG
24374C (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

F4-5F-D4 (hex) Cisco SPVTG
F45FD4 (base 16) Cisco SPVTG
5030 Sugarloaf Pkwy
Lawrenceville GA 30044
US

2C-AB-A4 (hex) Cisco SPVTG
2CABA4 (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

1C-6E-4C (hex) Logistic Service & Engineering Co.,Ltd
1C6E4C (base 16) Logistic Service & Engineering Co.,Ltd
Unit N,9/F,Valiant Ind. Ctr.,2-12 Au Pui Wan St.,Fotan,Shatin,N.T.,Hong Kong
Hong Kong 00000
HK

B8-78-2E (hex) Apple, Inc.
B8782E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-05-02 (hex) Apple, Inc.
000502 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

34-BD-C8 (hex) Cisco Systems, Inc

34BDC8 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose
CA 95134
US

DC-EB-94 (hex) Cisco Systems, Inc
DCEB94 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

84-B5-17 (hex) Cisco Systems, Inc
84B517 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

18-8B-9D (hex) Cisco Systems, Inc
188B9D (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

E4-AA-5D (hex) Cisco Systems, Inc
E4AA5D (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

98-03-D8 (hex) Apple, Inc.
9803D8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-9E-3F (hex) Apple, Inc.
D89E3F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B8-C7-5D (hex) Apple, Inc.
B8C75D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

0C-74-C2 (hex) Apple, Inc.
0C74C2 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

90-84-0D (hex) Apple, Inc.
90840D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E8-06-88 (hex) Apple, Inc.
E80688 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

7C-C5-37 (hex) Apple, Inc.
7CC537 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

78-CA-39 (hex) Apple, Inc.
78CA39 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

18-E7-F4 (hex) Apple, Inc.
18E7F4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

70-CD-60 (hex) Apple, Inc.
70CD60 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

8C-7B-9D (hex) Apple, Inc.
8C7B9D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-22-41 (hex) Apple, Inc.
002241 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-26-4A (hex) Apple, Inc.
00264A
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

04-1E-64 (hex) Apple, Inc.
041E64 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-0A-95 (hex) Apple, Inc.
000A95 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-11-24 (hex) Apple, Inc.
001124 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

CC-78-5F (hex) Apple, Inc.
CC785F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

88-CB-87 (hex) Apple, Inc.
88CB87 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

68-5B-35 (hex) Apple, Inc.
685B35 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

2C-B4-3A (hex) Apple, Inc.
2CB43A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

68-9C-70 (hex) Apple, Inc.
689C70 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

38-0F-4A (hex) Apple, Inc.
380F4A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

44-4C-0C (hex) Apple, Inc.
444C0C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B4-F0-AB (hex) Apple, Inc.
B4F0AB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

80-92-9F (hex) Apple, Inc.
80929F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

9C-04-EB (hex) Apple, Inc.
9C04EB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

5C-96-9D (hex) Apple, Inc.
5C969D (base 16) Apple, Inc.
1 Infinite Loop

Cupertino CA 95014
US

30-10-E4 (hex) Apple, Inc.
3010E4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A8-86-DD (hex) Apple, Inc.
A886DD (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-C1-F1 (hex) Apple, Inc.
F0C1F1
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

84-38-35 (hex) Apple, Inc.
843835 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

8C-00-6D (hex) Apple, Inc.
8C006D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

5C-95-AE (hex) Apple, Inc.
5C95AE (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

84-29-99 (hex) Apple, Inc.
842999 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

74-E2-F5 (hex) Apple, Inc.
74E2F5 (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

E0-C9-7A (hex) Apple, Inc.
E0C97A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A8-96-8A (hex) Apple, Inc.
A8968A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F4-1B-A1 (hex) Apple, Inc.
F41BA1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

04-15-52
(hex) Apple, Inc.
041552 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

68-A8-6D (hex) Apple, Inc.
68A86D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

7C-C3-A1 (hex) Apple, Inc.
7CC3A1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

70-73-CB (hex) Apple, Inc.
7073CB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

90-72-40 (hex) Apple, Inc.

907240 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F8-27-93 (hex) Apple, Inc.
F82793 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

40-30-04 (hex) Apple, Inc.
403004 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

60-C5-47 (hex) Apple, Inc.
60C547 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

EC-85-2F (hex) Apple, Inc.
EC852F (base 16) Apple,
Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-F4-B9 (hex) Apple, Inc.
00F4B9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

3C-AB-8E (hex) Apple, Inc.
3CAB8E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

60-92-17 (hex) Apple, Inc.
609217 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

84-B1-53 (hex) Apple, Inc.
84B153 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E0-66-78 (hex) Apple, Inc.
E06678 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

48-D7-05 (hex) Apple, Inc.
48D705 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

68-D9-3C (hex) Apple, Inc.
68D93C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-F7-6F (hex) Apple, Inc.
00F76F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C8-85-50
(hex) Apple, Inc.
C88550 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E0-B5-2D (hex) Apple, Inc.
E0B52D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A4-31-35 (hex) Apple, Inc.
A43135 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

70-14-A6 (hex) Apple, Inc.
7014A6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

98-5A-EB (hex) Apple, Inc.
985AEB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

78-D7-5F (hex) Apple, Inc.
78D75F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

4C-7C-5F (hex) Apple, Inc.
4C7C5F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

68-64-4B (hex) Apple, Inc.
68644B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C8-1E-E7 (hex) Apple, Inc.
C81EE7 (base 16) Apple, Inc.
1
Infinite Loop
Cupertino CA 95014
US

6C-94-F8 (hex) Apple, Inc.
6C94F8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

90-8D-6C (hex) Apple, Inc.
908D6C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

B8-09-8A (hex) Apple, Inc.
B8098A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C0-CE-CD (hex) Apple, Inc.
C0CECD (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

60-D9-C7 (hex) Apple, Inc.
60D9C7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F4-4B-2A (hex) Cisco SPVTG
F44B2A (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

C4-AD-F1 (hex) GOPEACE Inc.
C4ADF1 (base 16) GOPEACE Inc.
Woolim Bldg B-916, 14 Sagimakgol-ro 45beon-gil, Jungwon-gu
Seongnam Gyeonggi 13209
KR

58-FC-73 (hex) Arria Live Media, Inc.
58FC73 (base 16) Arria
Live Media, Inc.
2388 NE Lindsey Drive
Hillsboro OR 97124
US

0C-1A-10 (hex) Acoustic Stream
0C1A10 (base 16) Acoustic Stream
3213 W Wheeler Street
Seattle WA 98199
US

E8-13-63 (hex) Comstock RD, Inc.
E81363 (base 16) Comstock RD, Inc.
4415 Mason St

Ashton ID 83406
US

74-18-65 (hex) Shanghai DareGlobal Technologies Co.,Ltd
741865 (base 16) Shanghai DareGlobal Technologies Co.,Ltd
22F NO.1555 Kongjiang RD
Shanghai 200092
CN

A4-B8-05 (hex) Apple, Inc.
A4B805 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

90-C9-9B (hex) Tesorion Nederland B.V.
90C99B (base 16) Tesorion Nederland B.V.
Auke Vleerstraat 6-D
Enschede 7521 PG
NL

5C-AD-CF (hex) Apple, Inc.
5CADCF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

BC-6C-21 (hex) Apple, Inc.
BC6C21 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C4-EF-70
(hex) Home Skinovations
C4EF70 (base 16) Home Skinovations
Tavor building POB 533
Yokneam Israel 2069206
IL

74-6F-19 (hex) ICARVISIONS (SHENZHEN) TECHNOLOGY CO., LTD.
746F19 (base 16) ICARVISIONS (SHENZHEN) TECHNOLOGY CO., LTD.
6F-1 ,Block D,Building 2#, Hongwan XinCun Ming JinHai Industry Area, Gushu Community, Xixiang Street, BaoAn District
Shenzhen Guangdong 518000
CN

7C-5A-67 (hex) JNC Systems, Inc.

7C5A67 (base 16) JNC Systems, Inc.
#611, Gyeonggi Venture Yeonsung University
Anyang-si Gyeonggi-do 430731
KR

5C-E3-B6 (hex) Fiberhome Telecommunication Technologies Co.,LTD
5CE3B6 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

A0-F9-E0 (hex) VIVATEL COMPANY LIMITED
A0F9E0 (base 16) VIVATEL COMPANY LIMITED
36/F,Tower Two
Causeway Bay Causeway Bay 999077
HK

2C-AE-2B (hex) Samsung Electronics Co.,Ltd
2CAE2B
(base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C8-69-CD (hex) Apple, Inc.
C869CD (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F8-C3-72 (hex) TSUZUKI DENKI
F8C372 (base 16) TSUZUKI DENKI
shinbashi 6-19-15
mainato-ku tokyo-to 105-8665
JP

D4-72-08 (hex) Bragi GmbH
D47208 (base 16) Bragi GmbH
Herzog-Heinrich-Strasse 20
Munich Bavaria 80336
DE

A4-A6-A9 (hex) Private
A4A6A9 (base 16) Private

8C-10-D4 (hex) Sagemcom Broadband SAS
8C10D4 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur

Rueil Malmaison Cedex hauts de seine 92848
FR

F8-98-B9 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F898B9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

5C-B5-59 (hex) CNEX Labs
5CB559 (base 16) CNEX Labs
2880 Stevens Creek Blvd
San
Jose CA 95128
US

B8-3A-9D (hex) Alarm.com
B83A9D (base 16) Alarm.com
8281 Greensboro Dr., Suite 100
Tysons VA 22102
US

F4-0E-22 (hex) Samsung Electronics Co.,Ltd
F40E22 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

3C-7A-8A (hex) ARRIS Group, Inc.
3C7A8A (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

C0-11-73 (hex) Samsung Electronics Co.,Ltd
C01173 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

78-53-F2 (hex) Roxton Systems Ltd.
7853F2 (base 16) Roxton Systems Ltd.
Floor 4, premise 1, room 6, Ostapovsky proezd,15k2
Moscow Moscow 109316
RU

6C-EB-B2 (hex) Dongguan Sen DongLv Electronics Co.,Ltd
6CEBB2 (base 16) Dongguan Sen DongLv Electronics Co.,Ltd

Nanjiang RD 111st,Daning
Dongguan Guangdong 523930

68-58-C5 (hex) ZF TRW Automotive
6858C5 (base
16) ZF TRW Automotive
12001 Tech Center Drive
Livonia MI 48150
US

BC-E6-3F (hex) Samsung Electronics Co.,Ltd
BCE63F (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

7C-91-22 (hex) Samsung Electronics Co.,Ltd
7C9122 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

AC-BC-32 (hex) Apple, Inc.
ACBC32 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

54-4E-90 (hex) Apple, Inc.
544E90 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

88-1B-99 (hex) SHENZHEN XIN FEI JIA ELECTRONIC CO. LTD.
881B99 (base 16) SHENZHEN XIN FEI JIA ELECTRONIC CO. LTD.
#4 BULIDING, HIGH TECH INDUSTRIAL PARK, HE PING COMMUNITY
GUANGDONG N/A 518000
CN

08-0A-4E (hex) Planet Bingo® — 3rd Rock Gaming®
080A4E (base 16) Planet Bingo® — 3rd Rock Gaming®
75190 Gerald Ford Dr.
Palm Desert CA
92211
US

B4-9D-0B (hex) BQ
B49D0B (base 16) BQ
Sofia, 10
Las Rozas de Madrid Madrid 28230
ES

3C-8C-F8 (hex) TRENDnet, Inc.
3C8CF8 (base 16) TRENDnet, Inc.
20675 Manhattan Place
Torrance CA 90501
US

A8-72-85 (hex) IDT, INC.
A87285 (base 16) IDT, INC.
6024 SILVER CREEK VALLEY RD
SAN JOSE CA 95138
US

78-05-41 (hex) Queclink Wireless Solutions Co., Ltd
780541 (base 16) Queclink Wireless Solutions Co., Ltd
Room 501, Building 9, No.99 Tianzhou Road
shanghai shanghai 200233
CN

04-41-69 (hex) GoPro
044169 (base 16) GoPro
3000 Clearview Way
San Mateo CA 94402
US

C0-2D-EE (hex) Cuff
C02DEE (base 16) Cuff
232 Townsend St
San Francisco CA 94107
US

90-23-EC (hex) Availink, Inc.
9023EC (base 16) Availink, Inc.
Scotia Centre P.O. Box 268GT,Grand Cayman, Cayman Islands
Grand Cayman Grand Cayman 999159
KY

44-1C-A8 (hex) Hon Hai Precision
Ind. Co.,Ltd.
441CA8 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

34-0C-ED (hex) Moduel AB
340CED (base 16) Moduel AB
Hudiksvallsgatan 8
Stockholm Stockholm 11330
SE

9C-A6-9D (hex) Whaley Technology Co.Ltd
9CA69D (base 16) Whaley Technology Co.Ltd
Floor 3, Building E, No666 Shengxia Road
Shanghai 201203
CN

58-53-C0 (hex) Beijing Guang Runtong Technology Development Company co.,Ltd
5853C0 (base 16) Beijing Guang Runtong Technology Development Company co.,Ltd
Beijing city Haidian District North Third Ring Road 48, Beijing science and Technology Exhibition Center 1 building B block, room 18H
Beijing Bejing 100000
CN

24-72-60 (hex) IOTTECH Corp
247260 (base 16) IOTTECH Corp
4F.-1, No.55, Dongguang Rd., East Dist., Hsinchu City 300, TAIWAN ,REPUBLIC OF CHINA
Hsinchu TAIWAN 300
TW

E8-F2-E2 (hex) LG Innotek
E8F2E2
(base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

2C-A5-39 (hex) Parallel Wireless, Inc
2CA539 (base 16) Parallel Wireless, Inc
1 Tara Blvd
Nashua NH 03062
US

24-5B-F0 (hex) Liteon, Inc.
245BF0 (base 16) Liteon, Inc.
3001 Summit Avenue, Suite 400
Plano Tx 75074
US

CC-79-4A (hex) BLU Products Inc.
CC794A (base 16) BLU Products Inc.
Tower 4, Excellence Century Center

Shenzhen Guangdong 518000
CN

B4-29-3D (hex) Shenzhen Urovo Technology Co.,Ltd.
B4293D (base 16) Shenzhen Urovo Technology Co.,Ltd.
A701-710, Zondy Cyber Building, Keyuan South Road,
Nanshan District, Shenzhen Guangzhou 518057
CN

54-FF-82 (hex) Davit Solution co.
54FF82 (base 16) Davit Solution co.
103-301,Geudaegapremier,21 Deagyeong-Daero 1484beon-Gil
Suwon-Si Gyeonggi-Do KS002
KR

28-27-BF (hex) Samsung Electronics Co.,Ltd
2827BF (base 16) Samsung Electronics
Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F4-E9-26 (hex) Tianjin Zanpu Technology Inc.
F4E926 (base 16) Tianjin Zanpu Technology Inc.
3F Haiyi International Center, Huayuan Industrial Park, Tianjin
Tianjin Tianjin 300384
CN

90-6F-18 (hex) Private
906F18 (base 16) Private

98-CB-27 (hex) Galore Networks Pvt. Ltd.
98CB27 (base 16) Galore Networks Pvt. Ltd.
#D1104, Salarpuria Serenity, 41A,
Bangalore Karnataka 560068
IN

94-D8-59 (hex) TCT mobile ltd
94D859 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

2C-FC-E4 (hex) CTEK Sweden AB
2CFCE4 (base 16) CTEK Sweden AB
Rostugnsvägen 3
Vikmanshyttan Dalarna SE-776 70
SE

E8-55-B4 (hex) SAI Technology Inc.
E855B4 (base 16) SAI Technology Inc.
2376 Walsh Avenue
Santa Clara California 95051
US

50-DF-95 (hex) Lytx
50DF95 (base 16) Lytx
9785
Towne Centre Drive
San Diego CA 92121
US

30-0C-23 (hex) zte corporation
300C23 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

C4-7D-46 (hex) FUJITSU LIMITED
C47D46 (base 16) FUJITSU LIMITED
403, Kosugi-cho 1-chome, Nakahara-ku
Kawasaki Kanagawa 211-0063
JP

C0-B7-13 (hex) Beijing Xiaoyuer Technology Co. Ltd.
C0B713 (base 16) Beijing Xiaoyuer Technology Co. Ltd.
No.5 Guangshunbei Rd. Rm# B129
Beijing Beijing 100102
CN

10-05-B1 (hex) ARRIS Group, Inc.
1005B1 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

18-8E-F9 (hex) G2C Co. Ltd.
188EF9 (base 16) G2C Co. Ltd.
1004,1591-9, K-Center Kwanyang Dong
Anyang Si Kyeonggido 431-815
KR

F4-B8-A7 (hex) zte corporation
F4B8A7 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen

guangdong 518057
CN

20-63-5F (hex) Abeeway
20635F (base 16) Abeeway
29 chemin du vieux chêne
meylan Isere 38240
FR

08-3A-5C (hex) Junilab, Inc.
083A5C (base 16) Junilab, Inc.
#205 107 Gyounggyo-Ro, Yeongtong-Gu, Suwon
Suwon Gyeonggi-Do 443-766
KR

6C-E0-1E (hex) Modcam AB
6CE01E (base 16) Modcam AB
Bredgatan 4
Malmö Skåne 21130
SE

74-85-2A (hex) PEGATRON CORPORATION
74852A (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

4C-EE-B0 (hex) SHC Netzwerktechnik GmbH
4CEEB0 (base 16) SHC Netzwerktechnik GmbH
Ludwigstrasse 33-37
Frankfurt am Main Hessen 60327
DE

80-01-84 (hex) HTC Corporation
800184 (base 16) HTC Corporation
No. 23, Xinghua Rd., Taoyuan City
Taoyuan County Taiwan 330
TW

B8-B3-DC (hex) DEREK (SHAOGUAN) LIMITED
B8B3DC (base 16) DEREK (SHAOGUAN) LIMITED
Gaojiling, Taiping Town,
Shao
Guan Guang Dong 512500
CN

70-2A-7D (hex) EpSpot AB
702A7D (base 16) EpSpot AB

Aluddsparken 7D
Stockholm 11265
SE

4C-AE-31 (hex) ShengHai Electronics (Shenzhen) Ltd
4CAE31 (base 16) ShengHai Electronics (Shenzhen) Ltd
Block 17&18,Hui Ming Ying Industry,YanChuan,SongGang
Shenzhen Guangdong 518105
CN

F4-E9-D4 (hex) QLogic Corporation
F4E9D4 (base 16) QLogic Corporation
26650 Aliso Viejo Parkway
Aliso Viejo California
US

44-F4-36 (hex) zte corporation
44F436 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

44-C6-9B (hex) Wuhan Feng Tian Information Network CO.,LTD
44C69B (base 16) Wuhan Feng Tian Information Network CO.,LTD
Room 1002,10th Floor,Oversea talent Building A,
Wuhan City Hubei Province 430074
CN

4C-B7-6D (hex) Novi Security
4CB76D (base 16) Novi Security
1434 E 820 N
Orem
UT 84097
US

18-5D-9A (hex) BobjGear LLC
185D9A (base 16) BobjGear LLC
4327 S Highway 27 # 504
Clermont Florida 34711
US

C0-25-67 (hex) Nexxt Solutions
C02567 (base 16) Nexxt Solutions
3505 NW 107TH AVENUE
MIAMI FLORIDA 33178
US

FC-E3-3C (hex) HUAWEI TECHNOLOGIES CO.,LTD

FCE33C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

9C-B6-D0 (hex) Rivet Networks
9CB6D0 (base 16) Rivet Networks
11940 Jollyville Rd
Austin tx 78759
US

40-B8-9A (hex) Hon Hai Precision Ind. Co.,Ltd.
40B89A (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

1C-B7-2C (hex) ASUSTek COMPUTER INC.
1CB72C (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

40-B8-37 (hex) Sony Corporation
40B837 (base
16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

60-9C-9F (hex) Brocade Communications Systems LLC
609C9F (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

A8-82-7F (hex) CIBN Oriental Network(Beijing) CO.,Ltd
A8827F (base 16) CIBN Oriental Network(Beijing) CO.,Ltd
Floor 18B,Block B(International Resources Building),No.18B(Wanda Plaza),Shijingshan Road,Shijingshan,Beijing(100043)
Beijing Beijing 100043
CN

D0-48-F3 (hex) DATTUS Inc
D048F3 (base 16) DATTUS Inc
3000 Kent Ave
W Lafayette IN 47906
US

B0-08-BF (hex) Vital Connect, Inc.
B008BF (base 16) Vital Connect, Inc.
900 E HAMILTON AVE STE 500
CAMPBELL CA 95008-0667
US

E0-76-D0 (hex) AMPAK Technology, Inc.
E076D0 (base 16) AMPAK Technology, Inc.
No.1,Jen Ai Road
Hsinchu Hsinchu 30352
TW

D4-52-2A (hex) TangoWiFi.com
D4522A (base 16) TangoWiFi.com
TangoWiFi
Team
Beijing Beijing 100022
CN

B8-C3-BF (hex) Henan Chengshi NetWork Technology Co.Ltd
B8C3BF (base 16) Henan Chengshi NetWork Technology Co.Ltd
Ruhe Road SouthKunlun Road WestZhongyuan DistrictZhengzhouHenanP.R.China450007
Zhengzhou Henan 450007
CN

44-96-2B (hex) Aidon Oy
44962B (base 16) Aidon Oy
Piippukatu 11
Jyvaskyla Jyvaskyla 40100
FI

E8-07-BF (hex) SHENZHEN BOOMTECH INDUSTRY CO.,LTD
E807BF (base 16) SHENZHEN BOOMTECH INDUSTRY CO.,LTD
Floor 6 East, Bldg 6, Yusheng Industrial Area, Xixiang, Bao'an District
Shenzhen Guangdong 518000
CN

84-F1-29 (hex) Metrascale Inc.
84F129 (base 16) Metrascale Inc.
400 Liberty Ave.
Brooklyn NY 11207
US

B8-9A-CD (hex) ELITE OPTOELECTRONIC(ASIA)CO.,LTD
B89ACD (base 16) ELITE OPTOELECTRONIC(ASIA)CO.,LTD
A9 jin Fu 1 Road,Tangchun lndustrial zone,Liaobu Town,Dongguan City,Guangdong Province
Liaobu dongguan /guangdong

523400
CN

D4-68-BA (hex) Shenzhen Sundray Technologies Company Limited
D468BA (base 16) Shenzhen Sundray Technologies Company Limited
6th Floor,Block A1, Nanshan iPark,
Nanshan District, Shenzhen 518055 Guangdong
CN

F0-1E-34 (hex) ORICO Technologies Co., Ltd
F01E34 (base 16) ORICO Technologies Co., Ltd
F-9, Block14A, Zhonghaixin Science &Technology Zone
ShenZhen Guangdong 518116
CN

DC-E0-26 (hex) Patrol Tag, Inc
DCE026 (base 16) Patrol Tag, Inc
2800 Western Ave
Seattle WA 98121
US

B4-05-66 (hex) SP Best Corporation Co., LTD.
B40566 (base 16) SP Best Corporation Co., LTD.
555/25 B-Avenue, Sukhaphibal 5 Road
Saimai Bangkok 10220
TH

1C-C7-2D (hex) Shenzhen Huapu Digital CO.,Ltd
1CC72D (base 16) Shenzhen Huapu Digital CO.,Ltd
R2305 Malata Technology Building,NO.9998 Shennan Boulevard, Shenzhen,P.R.China 518057
Shenzhen Guangzhou 518057
CN

8C-BF-A6 (hex) Samsung Electronics
Co.,Ltd
8CBFA6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

08-62-66 (hex) ASUSTek COMPUTER INC.
086266 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

9C-30-66 (hex) RWE Effizienz GmbH
9C3066 (base 16) RWE Effizienz GmbH

Flamingoweg 1
Dortmund NRW 44139
DE

70-01-36 (hex) FATEK Automation Corporation
700136 (base 16) FATEK Automation Corporation
5F., NO.300, SEC. 1, NEIHU RD
Taipei City 114
TW

FC-A2-2A (hex) PT. Callysta Multi Engineering
FCA22A (base 16) PT. Callysta Multi Engineering
Jl. Taman Cibeunying No. 2
Bandung Jawa Barat 40114
ID

A4-56-02 (hex) fenglian Technology Co.,Ltd.
A45602 (base 16) fenglian Technology Co.,Ltd.
302 R D Building Oriental Cyberport HighTech Industrial Park Nanshan Shenzhen China
Shenzhen,Guangdong Province 518057
CN

C8-C5-0E (hex) Shenzhen
Primestone Network Technologies.Co., Ltd.
C8C50E (base 16) Shenzhen Primestone Network Technologies.Co., Ltd.
Room 705,Complex Building, Tsinghua Hi-Tech Park
Shenzhen Guangdong 518057
CN

D0-6A-1F (hex) BSE CO.,LTD.
D06A1F (base 16) BSE CO.,LTD.
626-3, Gozan-dong, Namdong-ku
Incheon, 405-817
KR

18-BD-AD (hex) L-TECH CORPORATION
18BDAD (base 16) L-TECH CORPORATION
201, Moonbon-dong
Ilsandong-gu Gyeonggi-do 410-560
KR

60-E6-BC (hex) Sino-Telecom Technology Co.,Ltd.
60E6BC (base 16) Sino-Telecom Technology Co.,Ltd.
6F, Building 2, No.115, Lane 1276 Nanle Rd
201613
CN

94-E2-FD (hex) Boge Kompressoren OTTO Boge GmbH & Co. KG

94E2FD (base 16) Boge Kompressoren OTTO Boge GmbH & Co. KG
Otto Boge Str. 1-7
Bielefeld Westfalia 33739
DE

F4-2C-56 (hex) SENOR TECH CO LTD
F42C56 (base 16) SENOR TECH CO LTD
No.165, Kangning St
New Taipei City Taiwan 221
TW

FC-DC-4A
(hex) G-Wearables Corp.
FCDC4A (base 16) G-Wearables Corp.
901, S&CTBuilding, No.9 Zhongguancun South Avenue
Beijing Beijing 100081
CN

1C-14-B3 (hex) Airwire Technologies
1C14B3 (base 16) Airwire Technologies
9670 Gateway Drive, Suite 250
Reno NV 89521
US

A8-90-08 (hex) Beijing Yuecheng Technology Co. Ltd.
A89008 (base 16) Beijing Yuecheng Technology Co. Ltd.
Room 1601, Floor 16
Beijing Beijing 100000
CN

18-38-64 (hex) CAP-TECH INTERNATIONAL CO., LTD.
183864 (base 16) CAP-TECH INTERNATIONAL CO., LTD.
Rm. 6, 4F., No.120, Qiaohe Rd., Zhonghe Dist
New Taipei City Taiwan 235
TW

C0-33-5E (hex) Microsoft
C0335E (base 16) Microsoft
1 Microsoft Way
Redmond Washington 98052
US

B0-E0-3C (hex) TCT mobile ltd
B0E03C (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

BC-14-85 (hex) Samsung Electronics
Co.,Ltd
BC1485 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

9C-6C-15 (hex) Microsoft Corporation
9C6C15 (base 16) Microsoft Corporation
1 Microsoft Way
Redmond Washington 98052
FI

A4-8C-DB (hex) Lenovo
A48CDB (base 16) Lenovo
1009 Think Place
Morrisvilee NC 27560
US

D8-5D-E2 (hex) Hon Hai Precision Ind. Co.,Ltd.
D85DE2 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

3C-91-2B (hex) Vexata Inc
3C912B (base 16) Vexata Inc
1735 Technology Dr Suite 520
San Jose CA 95110
US

34-6C-0F (hex) Pramod Telecom Pvt. Ltd
346C0F (base 16) Pramod Telecom Pvt. Ltd
Plot No. 6-B, Malviya Nagar,
Lucknow Uttar Pradesh 226004
IN

C8-A8-23 (hex) Samsung Electronics Co.,Ltd
C8A823 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi
Gyeongbuk 730-350
KR

B0-C5-59 (hex) Samsung Electronics Co.,Ltd
B0C559 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350

KR

6C-F5-E8 (hex) Mooredoll Inc.
6CF5E8 (base 16) Mooredoll Inc.
5F,No.50,Ln.316,Ruiguan Rd.,Neihu Dist.,Taipei 114, Taiwan
Taipei Neihu 114
TW

E8-44-7E (hex) Bitdefender SRL
E8447E (base 16) Bitdefender SRL
24 Delea Veche St.
Bucharest Romania 024102
RO

B0-49-5F (hex) OMRON HEALTHCARE Co., Ltd.
B0495F (base 16) OMRON HEALTHCARE Co., Ltd.
53, Kunotsubo, Terado-cho
Muko Kyoto 6170002
JP

44-5E-CD (hex) Razer Inc
445ECD (base 16) Razer Inc
2035 Corte Del Nogal
Carlsbad CA 92011
US

A0-C2-DE (hex) Costar Video Systems
A0C2DE (base 16) Costar Video Systems
101 Wrangler, Suite 201
Coppell Texas 75019
US

88-E1-61 (hex) Art Beijing Science and Technology Development Co., Ltd.
88E161 (base 16) Art
Beijing Science and Technology Development Co., Ltd.
Room 210,Building 1#, No. 27 Qinghe Longgang Rd., Haidian District, Beijing,100192,China
Beijing Beijing 100192
CN

00-A5-09 (hex) WigWag Inc.
00A509 (base 16) WigWag Inc.
4009 banister lane
austin texas 78704
US

74-91-BD (hex) Four systems Co.,Ltd.
7491BD (base 16) Four systems Co.,Ltd.
608-608/7 Ramintra Road Kannayao

Bangkok Bangkok 10230
TH

D0-92-9E (hex) Microsoft Corporation
D0929E (base 16) Microsoft Corporation
1 Microsoft Way
Redmond Washington 98052
FI

84-CF-BF (hex) Fairphone
84CFBF (base 16) Fairphone
Piet Heinkade 181A
Amsterdam North Holland 1019HC
NL

AC-D1-B8 (hex) Hon Hai Precision Ind. Co.,Ltd.
ACD1B8 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

60-F1-89 (hex) Murata Manufacturing Co., Ltd.
60F189 (base 16) Murata Manufacturing
Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

74-2E-FC (hex) DirectPacket Research, Inc,
742EFC (base 16) DirectPacket Research, Inc,
909 Lake Carolyn Parkway
Irving Texas 75039
US

F0-FE-6B (hex) Shanghai High-Flying Electronics Technology Co., Ltd
F0FE6B (base 16) Shanghai High-Flying Electronics Technology Co., Ltd
Room 1002 ,#1Building,No.3000 Longdong Avenue,Pudong District,Shanghai,China
shanghai shanghai 201203
CN

3C-AE-69 (hex) ESA Elektroschaltanlagen Grimma GmbH
3CAE69 (base 16) ESA Elektroschaltanlagen Grimma GmbH
Broner Ring 30
Grimma Saxony 04668
DE

D4-32-66 (hex) Fike Corporation
D43266 (base 16) Fike Corporation

704 SW 10th Street
Blue Springs MO 64015
US

90-0C-B4 (hex) Alinket Electronic Technology Co., Ltd
900CB4 (base 16) Alinket Electronic Technology Co., Ltd
412 Guilin Rd. 3F, Xuhui District
Shanghai Shanghai 201235
CN

4C-A9-28
(hex) Insensi
4CA928 (base 16) Insensi
2025 Broadway, 2CD
New York City New York 10023
US

DC-09-14 (hex) Talk-A-Phone Co.
DC0914 (base 16) Talk-A-Phone Co.
7530 N. Natchez Ave.
Niles IL 60714
US

48-C0-93 (hex) Xirrus, Inc.
48C093 (base 16) Xirrus, Inc.
2101 Corporate Center Dr.
Thousand Oaks CA 91320
US

00-A2-F5 (hex) Guangzhou Yuanyun Network Technology Co.,Ltd
00A2F5 (base 16) Guangzhou Yuanyun Network Technology Co.,Ltd
31/F,183 TianHe Bei Rd, Metro Plz
GuangZhou GuangDong 510630
CN

10-08-B1 (hex) Hon Hai Precision Ind. Co.,Ltd.
1008B1 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

E4-8C-0F (hex) Discovery Insure
E48C0F (base 16) Discovery Insure
3 Alice lane
Sandton Gauteng 2196
ZA

BC-52-B4 (hex) Nokia

BC52B4 (base 16) Nokia
600 March Road
Kanata Ontario
K2K 2E6
CA

94-05-B6 (hex) Liling FullRiver Electronics & Technology Ltd
9405B6 (base 16) Liling FullRiver Electronics & Technology Ltd
FullRiver Industrial Area Economic Development Zone
HuNan Province 412200
CN

10-FA-CE (hex) Reacheng Communication Technology Co.,Ltd
10FACE (base 16) Reacheng Communication Technology Co.,Ltd
Building No.5-401,
Pu Dong New District, Shanghai 201203
CN

C8-1B-6B (hex) Innova Security
C81B6B (base 16) Innova Security
Av. General Ataliba Leonel, 1205
Sao Paulo Sao Paulo 02033000
BR

B4-A8-28 (hex) Shenzhen Concox Information Technology Co., Ltd
B4A828 (base 16) Shenzhen Concox Information Technology Co., Ltd
Floor 4th, Building B, Gaoxinqi Industrial Park, Liuxian 1st Road, district 67, Bao’an, Shenzhen, Guangdong,China
Shenzhen Guangdong 518102
CN

34-38-AF (hex) Inlab Networks GmbH
3438AF (base 16) Inlab Networks GmbH
Josef-Wuerth-Str. 3
Gruenwald
Bavaria 82031
DE

00-F3-DB (hex) WOO Sports
00F3DB (base 16) WOO Sports
11 Elkins St.
BOSTON Massachusetts 02127
US

78-31-2B (hex) zte corporation
78312B (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

44-CE-7D (hex) SFR
44CE7D (base 16) SFR
5 RUE NOEL PONS
NANTERRE 92000
FR

34-4D-EA (hex) zte corporation
344DEA (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

94-BF-95 (hex) Shenzhen Coship Electronics Co., Ltd
94BF95 (base 16) Shenzhen Coship Electronics Co., Ltd
Rainbow Bldg., North, Hi-Tech Industrial Park
Shenzhen Guangdong 518057
CN

E4-23-54 (hex) SHENZHEN FUZHI SOFTWARE TECHNOLOGY CO.,LTD
E42354 (base 16) SHENZHEN FUZHI SOFTWARE TECHNOLOGY CO.,LTD
4/F,Fuxing Bldg,Binlang Road,Futian Free Trade Zone,SHENZHEN.CHINA
SHENZHEN
Guang Dong 518038
CN

94-70-D2 (hex) WINFIRM TECHNOLOGY
9470D2 (base 16) WINFIRM TECHNOLOGY
2-1015 Lotte IT Castle
Seoul 153-768
KR

A4-4A-D3 (hex) ST Electronics(Shanghai) Co.,Ltd
A44AD3 (base 16) ST Electronics(Shanghai) Co.,Ltd
Floors 1&3, No.6 Building, No.1151 Lianxi Road
Shanghai Shanghai 201204
CN

EC-0E-C4 (hex) Hon Hai Precision Ind. Co.,Ltd.
EC0EC4 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

8C-18-D9 (hex) Shenzhen RF Technology Co., Ltd
8C18D9 (base 16) Shenzhen RF Technology Co., Ltd
5/F,Building 4,Baokun Science and Technology Industial Park
Baoan Guangdong 518100

CN

CC-30-80 (hex) VAIO Corporation
CC3080 (base 16) VAIO Corporation
5432 Toyoshina
Azumino Nagano 399-8282
JP

18-71-17 (hex) eta plus electronic gmbh
187117 (base 16) eta plus electronic gmbh
Lauterstr. 29
Nuertingen
BW 72622
DE

7C-B1-77 (hex) Satelco AG
7CB177 (base 16) Satelco AG
Seestrasse 241
Au / Waedenswil ZH 8804
CH

30-FA-B7 (hex) Tunai Creative
30FAB7 (base 16) Tunai Creative
12F, No.221, Sec.4, Zongxiao E. Rd, Taipei 106, Taiwan
TAIPEI TAIPEI 10690
TW

08-09-B6 (hex) Masimo Corp
0809B6 (base 16) Masimo Corp
40 Parker
Irvine CA 92618
US

4C-F5-A0 (hex) Scalable Network Technologies Inc
4CF5A0 (base 16) Scalable Network Technologies Inc
600 Corporate Pointe
Culver City CA 90230
US

4C-16-F1 (hex) zte corporation
4C16F1 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

D8-FB-11 (hex) AXACORE
D8FB11 (base 16) AXACORE
2468 HISTORIC DECATUR RD

SAN DIEGO CA 92106
US

C4-BD-6A (hex) SKF GmbH
C4BD6A (base 16) SKF GmbH
Gunnar-Wester-Strasse 12
Schweinfurt DE DE-97421
DE

C4-01-CE
(hex) PRESITION (2000) CO., LTD.
C401CE (base 16) PRESITION (2000) CO., LTD.
42/6 Moo6
Muang Samutsakorn 74000
TH

58-7B-E9 (hex) AirPro Technology India Pvt. Ltd
587BE9 (base 16) AirPro Technology India Pvt. Ltd
D30, Gautam Marg,
Jaipur Rajasthan 302018
IN

60-02-92 (hex) PEGATRON CORPORATION
600292 (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

B4-B8-59 (hex) Texa Spa
B4B859 (base 16) Texa Spa
Via I Maggio, 9
Monastier di Treviso Treviso 31050
IT

5C-F9-F0 (hex) Atomos Engineering P/L
5CF9F0 (base 16) Atomos Engineering P/L
36 Park St
South Melbourne Victoria 3205
AU

E4-C6-2B (hex) Airware
E4C62B (base 16) Airware
1045 Bryant St.
San Francisco California 94103
US

EC-1D-7F (hex) zte corporation
EC1D7F (base 16) zte corporation

12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen
guangdong 518057
CN

4C-E9-33 (hex) RailComm, LLC
4CE933 (base 16) RailComm, LLC
1387 Fairport Road
Fairport New York 14450
US

AC-38-70 (hex) Lenovo Mobile Communication Technology Ltd.
AC3870 (base 16) Lenovo Mobile Communication Technology Ltd.
No.999, Qishan North 2nd Road, Information & Optoelectronics Park,
Xiamen Fujian 361006

4C-BC-42 (hex) Shenzhen Hangsheng Electronics Co.,Ltd.
4CBC42 (base 16) Shenzhen Hangsheng Electronics Co.,Ltd.
Hangsheng Industrial Area, Fuyuan 1st Road,Heping Village, Fuyong Town,Baoan District
Shenzhen City Guangdong 518103
CN

98-7E-46 (hex) Emizon Networks Limited
987E46 (base 16) Emizon Networks Limited
1 Allerton Road
Rugby Warwickshire CV23 0PA
GB

3C-46-D8 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
3C46D8 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

14-75-90 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
147590 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

50-BD-5F (hex) TP-LINK TECHNOLOGIES CO.,LTD.
50BD5F (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

70-F1-96 (hex) Actiontec Electronics, Inc
70F196 (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

18-82-19 (hex) Alibaba Cloud Computing Ltd.
188219 (base 16) Alibaba Cloud Computing Ltd.
Yuhang District of Hangzhou Wenyi Road, Building 1, No. 969 Xixi Park, Zhejiang Province
Hangzhou Zhejiang 310000
CN

28-A5-EE (hex) Shenzhen SDGI CATV Co., Ltd
28A5EE (base 16) Shenzhen
SDGI CATV Co., Ltd
2/F, NO, 3, QIONGYU ROAD,
shenzhen Guangdong province 518057
CN

F4-FD-2B (hex) ZOYI Company
F4FD2B (base 16) ZOYI Company
827-66 Yeoksam 1-dong, Second Floor
Seoul Korea 135-935
KR

BC-4E-5D (hex) ZhongMiao Technology Co., Ltd.
BC4E5D (base 16) ZhongMiao Technology Co., Ltd.
NO.2009 Lihu Avenue, WuxiStudioA-A3
Wuxi Jiangsu 214000
CN

7C-6A-C3 (hex) GatesAir, Inc
7C6AC3 (base 16) GatesAir, Inc
5300 Kings Island Drive
Mason Ohio 45040
US

F4-D0-32 (hex) Yunnan Ideal Information&Technology.,Ltd
F4D032 (base 16) Yunnan Ideal Information&Technology.,Ltd
The 1st Floor, Building Four ,JingdianMingju,Haiyuanzhong road, High Tech Development Zone,Kunming,YunnanP.R.China
Kunming Yunnan 650106
CN

0C-8C-8F (hex) Kamo Technology Limited
0C8C8F (base 16) Kamo Technology Limited
Room 1502, 15/F., Yue Xiu Building,
Wanchai Hong Kong 160-174

CN

A4-A4-D3
(hex) Bluebank Communication Technology Co.Ltd
A4A4D3 (base 16) Bluebank Communication Technology Co.Ltd
No.13-2.Jiang Ying Road,
Chongqing 401336
CN

70-2D-D1 (hex) Newings Communication CO., LTD.
702DD1 (base 16) Newings Communication CO., LTD.
12F, Block 1, NO 7866, Humin Rd, Minhang District, Shanghai, China
Shanghai Shanghai 200000
CN

F4-F6-46 (hex) Dediprog Technology Co. Ltd.
F4F646 (base 16) Dediprog Technology Co. Ltd.
4F,No.7,Lane 143, Xinming Rd.,
Taipei 114
TW

D0-A0-D6 (hex) ChengDu TD Tech
D0A0D6 (base 16) ChengDu TD Tech
C3 floor, software park, No. 219, Tianhua Second Road
Chengdu Tianfu Avenue, high tech Zone 610041
CN

EC-B9-07 (hex) CloudGenix Inc
ECB907 (base 16) CloudGenix Inc
2933 Bunker Hill Lane
Santa Clara CA 95054
US

F4-28-33 (hex) MMPC Inc.
F42833 (base 16) MMPC Inc.
#F313, KAIST-ICC, 193 Munjiro Yuseong-gu
Daejeon Daejeon
305-732
KR

A8-32-9A (hex) Digicom Futuristic Technologies Ltd.
A8329A (base 16) Digicom Futuristic Technologies Ltd.
406 Mirror Tower, Modi Road, TST
000086
HK

08-3D-88 (hex) Samsung Electronics Co.,Ltd
083D88 (base 16) Samsung Electronics Co.,Ltd

#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

30-59-5B (hex) streamnow AG
30595B (base 16) streamnow AG
Brandstrasse 33
Schlieren Zürich 8952
CH

4C-83-DE (hex) Cisco SPVTG
4C83DE (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

A8-13-74 (hex) Panasonic Corporation AVC Networks Company
A81374 (base 16) Panasonic Corporation AVC Networks Company
1-15 Matsuo cho
Kadoma city Osaka 571-8504
JP

3C-18-9F (hex) Nokia Corporation
3C189F (base 16) Nokia Corporation
Joensuunkatu 7
Salo N.A. 24101
FI

28-E6-E9 (hex) SIS Sat Internet Services GmbH
28E6E9 (base 16) SIS Sat Internet Services
GmbH
Justus-von-Liebig Str. 26
Neustadt Niedersachsen 31535
DE

04-5C-8E (hex) gosund GROUP CO.,LTD
045C8E (base 16) gosund GROUP CO.,LTD
11/F., FRONT BLOCK, HANG LOK BUILDING
SHEUNG WAN, HK 999077
HK

7C-C4-EF (hex) Devialet
7CC4EF (base 16) Devialet
126, rue Réaumur
Paris Paris 75002
FR

D8-5D-FB (hex) Private

D85DFB (base 16) Private

30-0D-2A (hex) Zhejiang Wellcom Technology Co.,Ltd.
300D2A (base 16) Zhejiang Wellcom Technology Co.,Ltd.
Liuhe Road,Binjiang District , Hangzhou
Hangzhou Zhejiang 310012

90-8C-63 (hex) GZ Weedong Networks Technology Co. , Ltd
908C63 (base 16) GZ Weedong Networks Technology Co. , Ltd
38th Floor,Ren Feng Building
Guangzhou Guangdong 510620
CN

84-85-0A (hex) Hella Sonnen- und Wetterschutztechnik GmbH
84850A (base 16) Hella Sonnen- und Wetterschutztechnik GmbH
Abfaltersbach 125
Abfaltersbach Tirol 9913
AT

08-CD-9B
(hex) samtec automotive electronics & software GmbH
08CD9B (base 16) samtec automotive electronics & software GmbH
Saarstrasse 27
Filderstadt Baden-Wuerttemberg 70794
DE

5C-5B-C2 (hex) YIK Corporation
5C5BC2 (base 16) YIK Corporation
B-4F,Pangyo Silicon Park 613
Seongnam-si Gyeonggi-do 463-400
KR

10-92-66 (hex) Samsung Electronics Co.,Ltd
109266 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

DC-F1-10 (hex) Nokia Corporation
DCF110 (base 16) Nokia Corporation
Joensuunkatu 7
Salo N.A. 24101
FI

60-8F-5C (hex) Samsung Electronics Co.,Ltd
608F5C (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong

Gumi Gyeongbuk 730-350
KR

E8-EF-89 (hex) OPMEX Tech.
E8EF89 (base 16) OPMEX Tech.
18F GDC Building, 9 Gaoxin Central Avenue 3rd, Nanshan District
Shenzhen Guangdong 518000
CN

EC-2E-4E (hex) HITACHI-LG DATA STORAGE INC
EC2E4E
(base 16) HITACHI-LG DATA STORAGE INC
4F, MSC CENTER BLDG., 22-23 KAIGAN 3-CHOME, MINATO-KU,
TOKYO TOKYO 108-0022
JP

34-81-C4 (hex) AVM GmbH
3481C4 (base 16) AVM GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

CC-B6-91 (hex) NECMagnusCommunications
CCB691 (base 16) NECMagnusCommunications
4-28 MITA 1Chome
Minato-ku Tokyo 108-0073
JP

40-16-7E (hex) ASUSTek COMPUTER INC.
40167E (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

14-2B-D6 (hex) Guangdong Appscomm Co.,Ltd
142BD6 (base 16) Guangdong Appscomm Co.,Ltd
Rm 903, Block C3, Chuangxin Building, No.182,
Guangzhou Guangdong 510663
CN

F8-4A-73 (hex) EUMTECH CO., LTD
F84A73 (base 16) EUMTECH CO., LTD
Room 1201, 115, Dongdeok-ro
Daegu Daegu 700-719
KR

98-37-13 (hex) PT.Navicom Indonesia
983713 (base 16) PT.Navicom Indonesia

Perkantoran Citragrand Blok CW7
no 10
Bekasi Jawa Barat 17435
ID

A4-7E-39 (hex) zte corporation
A47E39 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

FC-C2-DE (hex) Murata Manufacturing Co., Ltd.
FCC2DE (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

D0-C7-C0 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
D0C7C0 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

D4-67-61 (hex) XonTel Technology Co.
D46761 (base 16) XonTel Technology Co.
XonTel, Borj ALadel Tower, Fahad Al-Salem St Fl 21
Kuwait 0000
KW

98-34-9D (hex) Krauss Maffei Technologies GmbH
98349D (base 16) Krauss Maffei Technologies GmbH
Krauss-Mafffei-Str. 2
Munich 80997
DE

88-0F-B6 (hex) Jabil Circuits India
Pvt Ltd,-EHTP unit
880FB6 (base 16) Jabil Circuits India Pvt Ltd,-EHTP unit
B-26, MIDC, Ranjangaon, Tal.Shirur
Pune Maharashtra 412220
IN

B4-66-98 (hex) Zealabs srl
B46698 (base 16) Zealabs srl
via Monte Grappa, 25
Lancenigo di Villorba Italy 31020
IT

68-7C-C8 (hex) Measurement Systems S. de R.L.
687CC8 (base 16) Measurement Systems S. de R.L.
45999 Regal Plaza
Sterling VA 20165
US

74-F8-5D (hex) Berkeley Nucleonics Corp
74F85D (base 16) Berkeley Nucleonics Corp
2955 Kerner Blvd #D
San Rafael California 94901
US

B0-61-C7 (hex) Ericsson-LG Enterprise
B061C7 (base 16) Ericsson-LG Enterprise
77, Heungan-daro 81beon-gil,
Anyang Gyeonggi 431-749
KR

40-01-07 (hex) Arista Corp
400107 (base 16) Arista Corp
40675 Encyclopedia Circle
Fremont CA 94538
US

00-92-FA (hex) SHENZHEN WISKY TECHNOLOGY CO.,LTD
0092FA (base 16) SHENZHEN WISKY TECHNOLOGY CO.,LTD
5/F
W2-A,Hight-tech Park South 1 Road,Nanshan District,Shenzhen,Guangdong,China
Shenzhen Guangdong 518057
CN

4C-7F-62 (hex) Nokia Corporation
4C7F62 (base 16) Nokia Corporation
Joensuunkatu 7
Salo N.A. 24101
FI

D8-81-CE (hex) AHN INC.
D881CE (base 16) AHN INC.
1006,Halla sigma valley, 53, Gasandigital 2-Ro
Seoul 153 706
KR

E0-D3-1A (hex) EQUES Technology Co., Limited
E0D31A (base 16) EQUES Technology Co., Limited
Room 301, Building 1, No.168 Jixin Road,
Shanghai 201199
CN

58-05-28 (hex) LABRIS NETWORKS
580528 (base 16) LABRIS NETWORKS
Silikon Blok 1 NK 24 Teknokent
ANKARA AN 06540
TR

40-78-75 (hex) IMBEL - Industria de Material Belico do Brasil
407875 (base 16) IMBEL - Industria de Material Belico do Brasil
Rua Monsenhor Manoel Gomes, 520
Rio de Janeiro RJ 20931-670
BR

30-C7-50 (hex) MIC Technology Group
30C750 (base 16) MIC Technology Group
No.
6 Gaoxin 3 road
Xi'an Shaanxi 710075
CN

44-11-C2 (hex) Telegartner Karl Gartner GmbH
4411C2 (base 16) Telegartner Karl Gartner GmbH
Lerchenstr. 35
Steinenbronn Baden-Wurttemberg 71144
DE

80-59-FD (hex) Noviga
8059FD (base 16) Noviga
Lefortovskaya nab., 1
Moscow - 105005
RU

98-77-70 (hex) Pep Digital Technology (Guangzhou) Co., Ltd
987770 (base 16) Pep Digital Technology (Guangzhou) Co., Ltd
23F, Yinhui Building, No.117 Longyi Road,
Guangzhou Guangdong Province 510635
CN

28-C8-25 (hex) DellKing Industrial Co., Ltd
28C825 (base 16) DellKing Industrial Co., Ltd
2F,Building D,Zhongxing Science Park, No 3,Ganli 2nd Road,Gankeng Community
Shenzhen GuangDong 518112
CN

44-7E-76 (hex) Trek Technology (S) Pte Ltd
447E76 (base 16) Trek Technology (S) Pte Ltd
30 Loyang Way #07-15
Singapore Singapore 508769

SG

B0-EC-8F (hex) GMX SAS
B0EC8F (base 16) GMX SAS
32
Rue Brancion
PARIS 75015
FR

28-DE-F6 (hex) bioMerieux Inc.
28DEF6 (base 16) bioMerieux Inc.
595 Anglum Road
Hazelwood MO 63042
US

10-0F-18 (hex) Fu Gang Electronic(KunShan)CO.,LTD
100F18 (base 16) Fu Gang Electronic(KunShan)CO.,LTD
No.6 Zheng Wei West Road, Jin Xi Town, Kun Shan City, Jiang Su Province, China
Jiang Su 215324
CN

18-CC-23 (hex) Philio Technology Corporation
18CC23 (base 16) Philio Technology Corporation
8F., No.653-2, Zhongzheng Rd
New Taipei 242
TW

68-D2-47 (hex) Portalis LC
68D247 (base 16) Portalis LC
204 Fort Union Blvd. Ste. 202
Midvale UT 84047
US

50-B6-95 (hex) Micropoint Biotechnologies,Inc.
50B695 (base 16) Micropoint Biotechnologies,Inc.
6F, No.3, Industry 5 Road, Shekou
Shenzhen Guangdong 518067
CN

B4-43-0D (hex) Broadlink Pty Ltd
B4430D (base 16) Broadlink Pty Ltd
room 1201, No. 588 jiangnan Rd,
Hangzhou Zhejiang
province 310052
CN

50-A0-54 (hex) Actineon
50A054 (base 16) Actineon

47751 Fremont Blvd
Fremont California 94538
US

A0-65-18 (hex) VNPT TECHNOLOGY
A06518 (base 16) VNPT TECHNOLOGY
HoaLac Hi-Tech Park
HANOI 10000
VN

7C-8D-91 (hex) Shanghai Hongzhuo Information Technology co.,LTD
7C8D91 (base 16) Shanghai Hongzhuo Information Technology co.,LTD
Room.161,Building 5,No.311 Jingao RD
Pudong Shanghai 200136
CN

74-8F-1B (hex) MasterImage 3D
748F1B (base 16) MasterImage 3D
131, Gasan Digital 1-ro, Geumcheon-gu
Seoul 153-803
KR

08-3F-76 (hex) Intellian Technologies, Inc.
083F76 (base 16) Intellian Technologies, Inc.
348-5 Chungho-Ri Jinwi-Myeon
Gyeonggi-Do 451-862
KR

38-6C-9B (hex) Ivy Biomedical
386C9B (base 16) Ivy Biomedical
11 Business Park Drive
Branford Connecticut 06405
US

B4-2C-92 (hex) Zhejiang Weirong Electronic Co., Ltd
B42C92 (base
16) Zhejiang Weirong Electronic Co., Ltd
North of South Tanghe Road, Lingxi Town,
Wenzhou City Zhejiang Province 325800
CN

6C-64-1A (hex) Penguin Computing
6C641A (base 16) Penguin Computing
45800 Northport Loop West
Fremont CA 94538
US

5C-E7-BF (hex) New Singularity International Technical Development Co.,Ltd

5CE7BF (base 16) New Singularity International Technical Development Co.,Ltd
8F,NorthStar-Ultrapower Tower, No.13 Beiyuan Road, Chaoyang District, Beijing, China
Beijing Beijing 100107
CN

CC-89-FD (hex) Nokia Corporation
CC89FD (base 16) Nokia Corporation
Joensuunkatu 7
Salo N.A. 24101
FI

34-46-6F (hex) HiTEM Engineering
34466F (base 16) HiTEM Engineering
7420 Carroll Road
San Diego CA 92121
US

D8-2A-15 (hex) Leitner SpA
D82A15 (base 16) Leitner SpA
Via Brennero 34
Vipiteno Bolzano 39049
IT

80-61-8F (hex) Shenzhen sangfei consumer communications
co.,ltd
80618F (base 16) Shenzhen sangfei consumer communications co.,ltd
11 science and technology road,shenzhen hi-tech industrial park nanshan district,shenzhen 518057,PRC
ShenZhen China/GuangDong 518057
CN

B4-85-47 (hex) Amptown System Company GmbH
B48547 (base 16) Amptown System Company GmbH
Wandsbeker Strasse 26
Hamburg Hamburg 22179
DE

50-56-A8 (hex) Jolla Ltd
5056A8 (base 16) Jolla Ltd
Itaemerenkatu 11-13
Helsinki 00180
US

D8-7C-DD (hex) SANIX INCORPORATED
D87CDD (base 16) SANIX INCORPORATED
Creation Core Fukuoka 212, 3-2-16 Kamikoga,
Chikushino-shi Fukuoka 818-0041
JP

70-7C-18 (hex) ADATA Technology Co., Ltd
707C18 (base 16) ADATA Technology Co., Ltd
2F, No.258, Lian Cheng Rd.
New Taipei City 23553
TW

78-EC-74 (hex) Kyland-USA
78EC74 (base 16) Kyland-USA
1107 SE Willow Pl
Blue Springs MO 64014
US

E8-E7-70 (hex) Warp9 Tech Design, Inc.
E8E770
(base 16) Warp9 Tech Design, Inc.
3650 Pheasant Run N.E.
Blaine MN 55449
US

60-96-20 (hex) Private
609620 (base 16) Private

C0-F9-91 (hex) GME Standard Communications P/L
C0F991 (base 16) GME Standard Communications P/L
17 Gibbon Rd.
Winston Hills New South Wales 2153
AU

C0-64-C6 (hex) Nokia Corporation
C064C6 (base 16) Nokia Corporation
Joensuunkatu 7
Salo N.A. 24101
FI

14-F2-8E (hex) ShenYang ZhongKe-Allwin Technology Co.LTD
14F28E (base 16) ShenYang ZhongKe-Allwin Technology Co.LTD
No.6, Gaoge Road,
ShenYang Liaoning 110179
CN

BC-14-EF (hex) ITON Technology Limited
BC14EF (base 16) ITON Technology Limited
Room 1302,A ablock, Building 4
ShenZhen GuangDong Pronvice 518000
CN

44-3C-9C (hex) Pintsch GmbH
443C9C (base 16) Pintsch GmbH

Huenxer Strasse 149
Dinslaken 46537
DE

A0-77-71 (hex) Vialis BV
A07771 (base 16) Vialis BV
Loodsboot
15
HOUTEN Utrecht 3991 CJ
US

10-DD-F4 (hex) Maxway Electronics CO.,LTD
10DDF4 (base 16) Maxway Electronics CO.,LTD
2F Building 4,A Section,3rd Industrial zone,Tangtou
Shenzhen Guangdong 518018
CN

08-03-71 (hex) KRG CORPORATE
080371 (base 16) KRG CORPORATE
41 rue Perier
Montrouge 92120
FR

20-0E-95 (hex) IEC – TC9 WG43
200E95 (base 16) IEC – TC9 WG43
3, rue de Varembe
Geneva GE 1211
CH

0C-12-62 (hex) zte corporation
0C1262 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

3C-D4-D6 (hex) WirelessWERX, Inc
3CD4D6 (base 16) WirelessWERX, Inc
22687 Old Canal Rd.
Yorba Linda California 92887
US

C8-F6-8D (hex) S.E.TECHNOLOGIES LIMITED
C8F68D (base 16) S.E.TECHNOLOGIES LIMITED
#303 Shiodome building Level3
Minato-ku Tokyo 105-0022
JP

38-7B-47 (hex) AKELA, Inc.

387B47 (base
16) AKELA, Inc.
5551 Ekwill Street, Suite A
Santa Barbara California 93111
US

E4-04-39 (hex) TomTom Software Ltd
E40439 (base 16) TomTom Software Ltd
20th Floor Euston Tower
London NW1 3AS
GB

24-A4-95 (hex) Thales Canada Inc.
24A495 (base 16) Thales Canada Inc.
105 Moatfield Road
Toronto Ontario M3B 0A4
CA

D0-C4-2F (hex) Tamagawa Seiki Co.,Ltd.
D0C42F (base 16) Tamagawa Seiki Co.,Ltd.
1-3-47 Kitainter Kogyodanchi
Hachinohe city Aomori-Pref. 039-2245
US

54-93-59 (hex) SHENZHEN TWOWING TECHNOLOGIES CO.,LTD.
549359 (base 16) SHENZHEN TWOWING TECHNOLOGIES CO.,LTD.
F 4th ,5th , 6th, No.6 Building,
Shenzhen Guangdong 518129
US

90-35-6E (hex) Vodafone Omnitel N.V.
90356E (base 16) Vodafone Omnitel N.V.
Via Guglielmo Jervis, 13
Ivrea Italy / Tourin 10015
IT

E0-97-F2 (hex) Atomax Inc.
E097F2 (base 16) Atomax Inc.
8F-1, No.300, Sec.1, Nei-hu Rd.
Taipei
114
TW

70-30-5E (hex) Nanjing Zhongke Menglian Information Technology Co.,LTD
70305E (base 16) Nanjing Zhongke Menglian Information Technology Co.,LTD
3rd Floor,Building A,Area 3
Nanjing Jiangsu 210042
CN

C0-98-E5 (hex) University of Michigan
C098E5 (base 16) University of Michigan
4808 Beyster Bldg,
Ann Arbor Michigan 48109
US

50-E1-4A (hex) Private
50E14A (base 16) Private

70-8D-09 (hex) Nokia Corporation
708D09 (base 16) Nokia Corporation
Joensuunkatu 7
Salo N.A. 24101
FI

70-1D-7F (hex) Comtech Technology Co., Ltd.
701D7F (base 16) Comtech Technology Co., Ltd.
2F, No. 42, Sec. 3 Chung Yang Rd.
New Taipei City 23673
TW

9C-03-9E (hex) Beijing Winchannel Software Technology Co., Ltd
9C039E (base 16) Beijing Winchannel Software Technology Co., Ltd
8F, Block E, Dazhongsi Zhongkun Plaza No. A
Haidian District BEIJING 100089
CN

68-0A-D7 (hex) Yancheng Kecheng
Optoelectronic Technology Co., Ltd
680AD7 (base 16) Yancheng Kecheng Optoelectronic Technology Co., Ltd
No.1 East Road, Kaifa Avenue,
Yancheng Jiangsu 224007
CN

5C-11-93 (hex) Seal One AG
5C1193 (base 16) Seal One AG
Berliner Str. 44
Frankfurt am Main Hessen 60311
DE

84-76-16 (hex) Addat s.r.o.
847616 (base 16) Addat s.r.o.
U krematoria 24
Liberec Liberec 46001
CZ

DC-05-75 (hex) SIEMENS ENERGY AUTOMATION

DC0575 (base 16) SIEMENS ENERGY AUTOMATION
GOA WORKS ,L-6 ,
VERNA GOA 403722
IN

84-4F-03 (hex) Ablelink Electronics Ltd
844F03 (base 16) Ablelink Electronics Ltd
Flat 1602,16/F Kodak House 2 39 Healthy Street East,

CN

78-3D-5B (hex) TELNET Redes Inteligentes S.A.
783D5B (base 16) TELNET Redes Inteligentes S.A.
Polígono Industrial Centrovía
La Muela Zaragoza 50198
ES

D0-B5-23 (hex) Bestcare Cloucal Corp.
D0B523 (base 16) Bestcare Cloucal
Corp.
4F.,No.106,Sec.1,Xintai 5th Rd.,
New Taipei City 22102
TW

98-FB-12 (hex) Grand Electronics (HK) Ltd
98FB12 (base 16) Grand Electronics (HK) Ltd
Flat/Room 1120, 11/F Beverley Commercial Centre
999077
HK

3C-10-40 (hex) daesung network
3C1040 (base 16) daesung network
#209 e-space Bldg,Guro-dong,Guro-gu
Seoul 152-789
KR

28-FC-51 (hex) The Electric Controller and Manufacturing Co., LLC
28FC51 (base 16) The Electric Controller and Manufacturing Co., LLC
PO Box 468
Saint Matthews SC 29135
US

BC-88-93 (hex) VILLBAU Ltd.
BC8893 (base 16) VILLBAU Ltd.
Ulloi ut 611.
Budapest - H-1182
HU

40-74-96 (hex) aFUN TECHNOLOGY INC.
407496 (base 16) aFUN TECHNOLOGY INC.
2F.,No.3,Lane29,HuLu ST.,Shihlin District,
Taipei 11165
TW

70-59-86 (hex) OOO TTV
705986 (base 16) OOO TTV
No. 75, Okulov Street, Building 8
Perm 614068
RU

98-6C-F5 (hex) zte
corporation
986CF5 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

90-67-17 (hex) Alphion India Private Limited
906717 (base 16) Alphion India Private Limited
405 Windfall, Sahar Plaza
Mumbai Maharashtra 400059
IN

60-64-A1 (hex) RADiflow Ltd.
6064A1 (base 16) RADiflow Ltd.
31 Habarzel St.
Tel Aviv 6971045
IL

58-B9-61 (hex) SOLEM Electronique
58B961 (base 16) SOLEM Electronique
ZAE La Plaine
CLAPIERS 34830
FR

78-49-1D (hex) The Will-Burt Company
78491D (base 16) The Will-Burt Company
169 S. Main St.
Orrivlle Ohio 44667
US

20-D2-1F (hex) Wincal Technology Corp.
20D21F (base 16) Wincal Technology Corp.
1028 South Greenwood Ave.
Montebello California 90640
US

F8-95-50 (hex) Proton Products Chengdu Ltd
F89550 (base 16) Proton Products Chengdu Ltd
1st Ring
Chengdu Sichuan
610051
CN

44-7B-C4 (hex) DualShine Technology(SZ)Co.,Ltd
447BC4 (base 16) DualShine Technology(SZ)Co.,Ltd
No.334-1,LuoTian 3rd Industrial Park,
Shen Zhen Guang Dong 518000
CN

2C-5F-F3 (hex) Pertronic Industries
2C5FF3 (base 16) Pertronic Industries
17 Eastern Hutt Road
Wingate 5019
NZ

58-63-9A (hex) TPL SYSTEMES
58639A (base 16) TPL SYSTEMES
ZAE DU PERIGORD NOIR
SARLAT 24200
FR

18-7E-D5 (hex) shenzhen kaism technology Co. Ltd
187ED5 (base 16) shenzhen kaism technology Co. Ltd
37# chuanglong west road pinghu shenzhen
shenzhen 518111
CN

9C-F8-DB (hex) shenzhen eyunmei technology co,.ltd
9CF8DB (base 16) shenzhen eyunmei technology co,.ltd
8/F Yiben Building,No.1063 ChaGuang Road,XiLi Town,
Shenzhen Guangdong 518055
CN

0C-47-3D (hex) Hitron Technologies. Inc
0C473D (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu,
300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

8C-CD-A2 (hex) ACTP, Inc.
8CCDA2 (base 16) ACTP, Inc.
2400 Sand Lake Rd

Orlando FL 32809
US

84-26-2B (hex) Nokia
84262B (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

F4-6A-BC (hex) Adonit Corp. Ltd.
F46ABC (base 16) Adonit Corp. Ltd.
10689 Rm. A, 9F, No.107 Sec.4 Ren-Ai Rd.,
Taipei Taipei 10689
TW

7C-49-B9 (hex) Plexus Manufacturing Sdn Bhd
7C49B9 (base 16) Plexus Manufacturing Sdn Bhd
Plot 87
Bayan Lepas Penang 11900
MY

84-0F-45 (hex) Shanghai GMT Digital Technologies Co., Ltd
840F45 (base 16) Shanghai GMT Digital Technologies Co., Ltd
Room 501-505
Zhangjiang Hi-tech Park Shanghai 201204
CN

E0-AF-4B (hex) Pluribus Networks, Inc.
E0AF4B (base 16) Pluribus Networks, Inc.
1808 Embarcadero Rd Suite B
Palo Alto CA 94303
US

54-A5-4B (hex) NSC Communications Siberia Ltd
54A54B (base 16) NSC
Communications Siberia Ltd
Ordjonikidze 38
Novosibirsk 630099
RU

BC-2B-6B (hex) Beijing Haier IC Design Co.,Ltd
BC2B6B (base 16) Beijing Haier IC Design Co.,Ltd
Room 205, Tongheng Building, No.4 Huayuan Road, Haidian District
Beijing Beijing 100088
CN

7C-B7-7B (hex) Paradigm Electronics Inc
7CB77B (base 16) Paradigm Electronics Inc

5340 Canotek Rd Unit#4
Ottawa ON K1J 9C6
CA

B0-CE-18 (hex) Zhejiang shenghui lighting co.,Ltd
B0CE18 (base 16) Zhejiang shenghui lighting co.,Ltd
Rm801,1th Xinye Building
cao he jing Develop Zone Shanghai 200233
CN

98-D3-31 (hex) Shenzhen Bolutek Technology Co.,Ltd.
98D331 (base 16) Shenzhen Bolutek Technology Co.,Ltd.
Building B, District A, Internet industry base, Baoan
Shenzhen Guangdong 518000
CN

38-EC-11 (hex) Novatek Microelectronics Corp.
38EC11 (base 16) Novatek Microelectronics Corp.
No.1-2 Innovation Rd I.,
Hsinchu 300
TW

4C-CB-F5
(hex) zte corporation
4CCBF5 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

44-70-0B (hex) IFFU
44700B (base 16) IFFU
33, Annyeom-gil 112 beon-gil,jeongnam-myeon
Hwaseong-si Gyeonggi-do 445-968
US

1C-41-58 (hex) Gemalto M2M GmbH
1C4158 (base 16) Gemalto M2M GmbH
Siemensdamm 50
Berlin Berlin 13629
DE

9C-28-40 (hex) Discovery Technology,LTD..
9C2840 (base 16) Discovery Technology,LTD..
5th floor Building 2,Block A,Internet industrial park,
Shenzhen Guangzhou 518100
CN

1C-7B-21 (hex) Sony Corporation

1C7B21 (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

EC-22-57 (hex) JiangSu NanJing University Electronic Information Technology Co.,Ltd
EC2257 (base 16) JiangSu NanJing University Electronic Information Technology Co.,Ltd
F7,Block 06
NanJing JiangSu 210000
CN

F0-37-A1
(hex) Huike Electronics (SHENZHEN) CO., LTD.
F037A1 (base 16) Huike Electronics (SHENZHEN) CO., LTD.
Huike industrial park,Minying industrial park,Shuitian country,Shiyan,Baoan District
SHENZHEN GUANGDONG 518108
CN

F0-8E-DB (hex) VeloCloud Networks
F08EDB (base 16) VeloCloud Networks
720 University Ave.
Palo Alto CA 94301
US

F4-7A-4E (hex) Woojeon&Handan
F47A4E (base 16) Woojeon&Handan
569-12, Gasan-dong,
Seoul 153-803
KR

04-84-8A (hex) 7INOVA TECHNOLOGY LIMITED
04848A (base 16) 7INOVA TECHNOLOGY LIMITED
3F, A Building, QuanYuanFa Industrial Park, No. 72, GuanLan Rd
LongHua District Shenzhen 518000
CN

6C-F9-7C (hex) Nanoptix Inc.
6CF97C (base 16) Nanoptix Inc.
699 Champlain St
Dieppe NB E1A 1P6
CA

F8-FF-5F (hex) Shenzhen Communication Technology Co.,Ltd
F8FF5F (base 16) Shenzhen Communication Technology Co.,Ltd
2F,6 Block, Kupai inforport,No.2
Mengxi Street,(North)High-tech Industrial Park,
Shenzhen Guangdong 518057
CN

70-4C-ED (hex) TMRG, Inc.
704CED (base 16) TMRG, Inc.
11950 Democracy Drive
Reston VA 20190
US

84-1B-38 (hex) Shenzhen Excelsecu Data Technology Co.,Ltd
841B38 (base 16) Shenzhen Excelsecu Data Technology Co.,Ltd
Unit 701-709,7/FSouth Block,SDGI Building A, No.2,
Shenzhen Guangdong 518057
CN

A8-97-DC (hex) IBM
A897DC (base 16) IBM
4400 North First Street
San Jose CA 95134
US

10-9A-B9 (hex) Tosibox Oy
109AB9 (base 16) Tosibox Oy
Elektroniikkatie 8
Oulu 90590
FI

14-2D-8B (hex) Incipio Technologies, Inc
142D8B (base 16) Incipio Technologies, Inc
6001 Oak Canyon
Irvine CA 92618
US

68-EE-96 (hex) Cisco SPVTG
68EE96 (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

08-EF-3B (hex) MCS Logic Inc.
08EF3B (base 16) MCS Logic Inc.
6F. Samho
Center B Bldg., 275-6,Yangjae-Dong, Secho-Ku,Seoul
Seoul 137-941
KR

E8-EA-DA (hex) Denkovi Assembly Electronics LTD
E8EADA (base 16) Denkovi Assembly Electronics LTD
St. Stambolov str. 21
Byala Rousse 7100

BG

F8-5B-C9 (hex) M-Cube Spa
F85BC9 (base 16) M-Cube Spa
Corso Cavour 2/2d
Trieste 34132
IT

90-7A-0A (hex) Gebr. Bode GmbH & Co KG
907A0A (base 16) Gebr. Bode GmbH & Co KG
Ochshaeuser Str. 14
Kassel 34266
DE

A0-C6-EC (hex) ShenZhen ANYK Technology Co.,LTD
A0C6EC (base 16) ShenZhen ANYK Technology Co.,LTD
5F,12B,ZhongXing Industrial Zone, Venture Road
ShenZhen GuangDong 518054
CN

10-22-79 (hex) ZeroDesktop, Inc.
102279 (base 16) ZeroDesktop, Inc.
125 University Ave, Suite 150
Palo Alto California 94301
US

7C-1A-FC (hex) Dalian Co-Edifice Video Technology Co., Ltd
7C1AFC (base 16) Dalian Co-Edifice Video Technology Co., Ltd
23F , Block A , #32
Huoju Road , Hi-Tech Zone
Dalian Liaoning 116023
CN

28-C6-71 (hex) Yota Devices OY
28C671 (base 16) Yota Devices OY
Elektronikkatie 13
Oulu 90590
FI

D8-69-60 (hex) Steinsvik
D86960 (base 16) Steinsvik
Rundhaug 25
FOERRESFJORDEN Rogaland 5563
NO

78-E8-B6 (hex) zte corporation
78E8B6 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China

shenzhen guangdong 518057
CN

DC-AE-04 (hex) CELOXICA Ltd
DCAE04 (base 16) CELOXICA Ltd
34 Porchester Road
London W2 6ES
GB

80-05-DF (hex) Montage Technology Group Limited
8005DF (base 16) Montage Technology Group Limited
Rm#A16F, Technolgy Blgd.,Yishan Rd.
Shanghai 200233
CN

84-E6-29 (hex) Bluwan SA
84E629 (base 16) Bluwan SA
Espace Lumiere, Bat 2
Chatou 78400
FR

C4-7F-51 (hex) Inventek Systems
C47F51 (base 16) Inventek Systems
2 Republic Road
Billerica Ma 01862
US

68-1D-64
(hex) Sunwave Communications Co., Ltd
681D64 (base 16) Sunwave Communications Co., Ltd
581,huoju Avenue,BinJiang District
Hangzhou Zhejiang Province 310053
CN

4C-21-D0 (hex) Sony Corporation
4C21D0 (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

C0-A3-9E (hex) EarthCam, Inc.
C0A39E (base 16) EarthCam, Inc.
84 Kennedy Street
Hackensack New Jersey 07601
US

CC-D2-9B (hex) Shenzhen Bopengfa Elec&Technology CO.,Ltd
CCD29B (base 16) Shenzhen Bopengfa Elec&Technology CO.,Ltd

Bldg56A,3/F,Baotian Rd3,Xixiang Town
shenzhen guangdong 518000
CN

78-DA-B3 (hex) GBO Technology
78DAB3 (base 16) GBO Technology
1150 Bayhill Dr. Ste. 111
San Bruno CA 94066
US

70-0F-EC (hex) Poindus Systems Corp.
700FEC (base 16) Poindus Systems Corp.
5F., No. 59, Lane. 77, Xing-Ai Rd., Neihu Dist.,
Taipei City 114
TW

E8-48-1F (hex) Advanced
Automotive Antennas
E8481F (base 16) Advanced Automotive Antennas
Pol.Ind Can Mitjans s/n
Viladecavalls Barcelona 08232
ES

D4-0B-B9 (hex) Solid Semecs bv.
D40BB9 (base 16) Solid Semecs bv.
Oostwijk 18
Uden Noord Brabant 5406 XT
NL

F4-15-FD (hex) Shanghai Pateo Electronic Equipment Manufacturing Co., Ltd.
F415FD (base 16) Shanghai Pateo Electronic Equipment Manufacturing Co., Ltd.
20th Floor, Metro Tower
Xuhui District Shanghai 200030
CN

74-8E-08 (hex) Bestek Corp.
748E08 (base 16) Bestek Corp.
No. 6, Lane 229, Sec. 3, Chang-Xing Rd.
Taoyuan 33852
TW

D8-DA-52 (hex) APATOR S.A.
D8DA52 (base 16) APATOR S.A.
ul Gdanska 4A lok. C4
Torun Kujawsko-Pomorskie 87-100
PL

58-7A-4D (hex) Stonesoft Corporation

587A4D (base 16) Stonesoft Corporation
Italahdenkatu 22A
Helsinki 00210
FI

F0-24-05 (hex) OPUS High Technology Corporation
F02405 (base 16) OPUS High
Technology Corporation
1st Floor, No. 367, Gaocui Road
Hsinchu City 30064
TW

D4-10-90 (hex) iNFORM Systems AG
D41090 (base 16) iNFORM Systems AG
Europastrasse 15
Glattbrugg 8152
CH

34-95-DB (hex) Logitec Corporation
3495DB (base 16) Logitec Corporation
8268 Rokudohara, Misuzu
Ina Nagano
JP

9C-B7-93 (hex) Creatcomm Technology Inc.
9CB793 (base 16) Creatcomm Technology Inc.
Rm 619, Buld A, Modern Plaza
Kunshan Jiangsu 201203
CN

5C-33-5C (hex) Swissphone Telecom AG
5C335C (base 16) Swissphone Telecom AG
Faelmisstrasse 21
Samstagern Zurich CH-8833
CH

78-D3-8D (hex) HONGKONG YUNLINK TECHNOLOGY LIMITED
78D38D (base 16) HONGKONG YUNLINK TECHNOLOGY LIMITED
15B 15/F CHEUK NANG PLAZA 250 HENNESSY RD HK
ShenzhenCity Guangdong Province 518103
US

10-78-CE (hex) Hanvit SI, Inc.
1078CE (base 16) Hanvit SI, Inc.
#201 Daeheung Building, 265-18 Yangjae-dong
Seoul
137130
KR

78-F5-E5 (hex) BEGA Gantenbrink-Leuchten KG
78F5E5 (base 16) BEGA Gantenbrink-Leuchten KG
Hennenbusch
Menden NRW 58708
DE

C4-7D-FE (hex) A.N. Solutions GmbH
C47DFE (base 16) A.N. Solutions GmbH
Am Brauhaus 12
Dresden Saxony 01099
DE

70-E0-27 (hex) HONGYU COMMUNICATION TECHNOLOGY LIMITED
70E027 (base 16) HONGYU COMMUNICATION TECHNOLOGY LIMITED
Room4B, East Building 210,
Shen Zhen Guang Dong Province 518040
CN

A0-9B-BD (hex) Total Aviation Solutions Pty Ltd
A09BBD (base 16) Total Aviation Solutions Pty Ltd
Suite 816A / 3 PARKLAND BVDE
Brisbane QLD 4000
AU

04-DF-69 (hex) Car Connectivity Consortium
04DF69 (base 16) Car Connectivity Consortium
3855 SW 153rd Drive
Beaverton Oregon 97006
US

78-D5-B5 (hex) NAVIELEKTRO KY
78D5B5 (base 16) NAVIELEKTRO KY
HALLIMESTARINKATU 11
KAARINA FIN-20780
FI

EC-D0-40 (hex) GEA Farm Technologies
GmbH
ECD040 (base 16) GEA Farm Technologies GmbH
Siemensstrasse 25-27
Boenen Northrhine-Westfalia 59199
DE

F8-0D-EA (hex) ZyCast Technology Inc.
F80DEA (base 16) ZyCast Technology Inc.
No.33, Lane 181, Chung Hwa Road,
Hsin Chu 30060

TW

B0-88-07 (hex) Strata Worldwide
B08807 (base 16) Strata Worldwide
8995 Roswell Road
Sandy Springs GA 30350
US

5C-F3-70 (hex) CC&C Technologies, Inc
5CF370 (base 16) CC&C Technologies, Inc
8F, 150, Chien I Rd.
Chung Ho Taiwan 235
TW

CC-BD-35 (hex) Steinel GmbH
CCBD35 (base 16) Steinel GmbH
Dieselstrasse 80-84
Herzebrock-Clarholz 33442
DE

6C-EC-A1 (hex) SHENZHEN CLOU ELECTRONICS CO. LTD.
6CECA1 (base 16) SHENZHEN CLOU ELECTRONICS CO. LTD.
5/F, building. T2, Hi-tech Industrial Park
SHENZ GUANGONG 518057
CN

10-5C-3B (hex) Perma-Pipe, Inc.
105C3B (base 16) Perma-Pipe, Inc.
7720 Lehigh Ave
Niles IL 60714
US

34-9D-90
(hex) Heinzmann GmbH & CO. KG
349D90 (base 16) Heinzmann GmbH & CO. KG
Am Haselbach 1
Schoenau Baden Wuertemberg 79677
DE

B0-38-50 (hex) Nanjing CAS-ZDC IOT SYSTEM CO.,LTD
B03850 (base 16) Nanjing CAS-ZDC IOT SYSTEM CO.,LTD
699-27 Xuanwu Avenue
Nanjing Jiangsu 210000
CN

A4-E0-E6 (hex) FILIZOLA S.A. PESAGEM E AUTOMACAO
A4E0E6 (base 16) FILIZOLA S.A. PESAGEM E AUTOMACAO
RUA JOAO VENTURA BATISTA, 450

SAO PAULO 02054-100
BR

DC-64-7C (hex) C.R.S. iiMotion GmbH
DC647C (base 16) C.R.S. iiMotion GmbH
Hermann-Schwer-Str. 3
Villingen-Schwenningen 78048
DE

14-86-92 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
148692 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

A8-15-4D (hex) TP-LINK TECHNOLOGIES CO.,LTD.
A8154D (base 16) TP-LINK TECHNOLOGIES
CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

D8-62-DB (hex) Eno Inc.
D862DB (base 16) Eno Inc.
2-3-18, Komagome, Toshima-ku
Tokyo 1700013
JP

8C-3C-07 (hex) Skiva Technologies, Inc.
8C3C07 (base 16) Skiva Technologies, Inc.
8330 Sterling St
Irving TX 75063
US

C0-C3-B6 (hex) Automatic Systems
C0C3B6 (base 16) Automatic Systems
avenue mercator,5
Wavre Belgium 1300
BE

A0-EB-76 (hex) AirCUVE Inc.
A0EB76 (base 16) AirCUVE Inc.
Guro-gu Digital-ro
Seoul 152-719
KR

FC-44-99 (hex) Swarco LEA d.o.o.
FC4499 (base 16) Swarco LEA d.o.o.

Finzgarjeva 1A
Lesce 4248
SI

E4-F7-A1 (hex) Datafox GmbH
E4F7A1 (base 16) Datafox GmbH
Dermbacher Str. 12 - 14
Geisa Thuringen 36419
DE

38-17-66 (hex) PROMZAKAZ LTD.
381766 (base 16) PROMZAKAZ LTD.
Noviy
Arbat street, 21
Moscow 119019
RU

14-41-E2 (hex) Monaco Enterprises, Inc.
1441E2 (base 16) Monaco Enterprises, Inc.
14820 E. Sprague Ave.
Spokane WA 99216
US

E4-7D-5A (hex) Beijing Hanbang Technology Corp.
E47D5A (base 16) Beijing Hanbang Technology Corp.
4/F,Skirt Building
Haidian District Beijing 100080
CN

38-A8-6B (hex) Orga BV
38A86B (base 16) Orga BV
Strickledeweg 13
Schiedam 3125 AT
NL

F0-77-65 (hex) Sourcefire, Inc
F07765 (base 16) Sourcefire, Inc
9780 Patuxent Woods Drive
Columbia Maryland 21046
US

24-95-04 (hex) SFR
249504 (base 16) SFR
40-42 QUAI DU POINT DU JOUR
BOULOGNE BILLANCOURT HAUT DE SEINE 92100
FR

F4-58-42 (hex) Boxx TV Ltd

F45842 (base 16) Boxx TV Ltd
Suite 17, Imperial Studios
London SW6 2AG
GB

10-66-82 (hex) NEC Platforms, Ltd.
106682 (base 16) NEC Platforms, Ltd.
800 Shimomata
Kakegawa Shizuoka 436-8501
JP

24-62-78
(hex) sysmocom - systems for mobile communications GmbH
246278 (base 16) sysmocom - systems for mobile communications GmbH
Alt-Moabit 93
Berlin 10559
DE

F0-84-C9 (hex) zte corporation
F084C9 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

D4-01-6D (hex) TP-LINK TECHNOLOGIES CO.,LTD.
D4016D (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

98-5C-93 (hex) SBG Systems SAS
985C93 (base 16) SBG Systems SAS
3bis, chemin de la Jonchere
Rueil Malmaison Ile de France 92500
FR

A0-8A-87 (hex) HuiZhou KaiYue Electronic Co.,Ltd
A08A87 (base 16) HuiZhou KaiYue Electronic Co.,Ltd
3#,Ruttang 2nd area,Tongcheng Avenue
Huizhou Guangdong 516005
CN

18-E8-DD (hex) MODULETEK
18E8DD
(base 16) MODULETEK
Unit 4A.4F.B Building. Shenfubao Science and Technology Industrial Park
Shenzhen Guangdong 518038
CN

D0-73-D5 (hex) LIFI LABS MANAGEMENT PTY LTD
D073D5 (base 16) LIFI LABS MANAGEMENT PTY LTD
7 Cubitt St
Richmond Victoria 3121
AU

14-94-48 (hex) BLU CASTLE S.A.
149448 (base 16) BLU CASTLE S.A.
5 RUE BONNEVOIE
LUXEMBOURG L-1260
US

48-F9-25 (hex) Maestronic
48F925 (base 16) Maestronic
Futura plaza 2103
Kwun Tong 88
HK

68-83-1A (hex) Pandora Mobility Corporation
68831A (base 16) Pandora Mobility Corporation
1F., No.33, Fude St
Taoyuan Guishan 333
TW

D4-29-EA (hex) Zimory GmbH
D429EA (base 16) Zimory GmbH
Revalerstrasse 100
Berlin Brandenburg 10245
DE

34-AD-E4 (hex) Shanghai Chint Power Systems Co., Ltd.
34ADE4 (base 16) Shanghai Chint Power Systems Co., Ltd.
855 Wenhe Road, Block 4
201614
CN

D8-1E-DE (hex) B&W
Group Ltd
D81EDE (base 16) B&W Group Ltd
5070 Francois Cusson
Lachine Quebec H8T1B3
CA

24-EA-40 (hex) Helmholz GmbH & Co. KG
24EA40 (base 16) Helmholz GmbH & Co. KG
Hannberger Weg 2
Grossenseebach BAY 91091

DE

FC-DB-96 (hex) ENERVALLEY CO., LTD
FCDB96 (base 16) ENERVALLEY CO., LTD
907-101 DIGITAL EMPIRE II
SUWON SI GYEONGGI DO 443 734
KR

14-23-D7 (hex) EUTRONIX CO., LTD.
1423D7 (base 16) EUTRONIX CO., LTD.
EUTRONIX BLDG. 4TH FLOOR
ANYANG KYEONGGI 431-804
US

38-67-93 (hex) Asia Optical Co., Inc.
386793 (base 16) Asia Optical Co., Inc.
No. 22-3 South 2nd Road, T.E.P.Z.
Taichung Taiwan 42754
TW

0C-82-68 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
0C8268 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

90-DA-4E (hex) AVANU
90DA4E (base 16) AVANU
5205
Prospect Rd
San Jose CA 95129-5034
US

28-18-78 (hex) Microsoft Corporation
281878 (base 16) Microsoft Corporation
One Microsoft Way
Redmond Washington 98052-6399
US

70-38-B4 (hex) Low Tech Solutions
7038B4 (base 16) Low Tech Solutions
350 N. Orleans
Chicago IL 60654
US

28-CD-9C (hex) Shenzhen Dynamax Software Development Co.,Ltd.
28CD9C (base 16) Shenzhen Dynamax Software Development Co.,Ltd.
Room 425-426,Block A,No.30,Hangkong Road

Shenzhen Guangdong 518000
CN

50-4F-94 (hex) Loxone Electronics GmbH
504F94 (base 16) Loxone Electronics GmbH
Falkensteinstraße 6
Kollerschlag Upper Austria 4154
AT

60-B1-85 (hex) ATH system
60B185 (base 16) ATH system
Osady Lezaku 498
Chrast 53851
CZ

74-5F-00 (hex) Samsung Semiconductor Inc.
745F00 (base 16) Samsung Semiconductor Inc.
3566 N. 1St Street
San Jose CA 95134
US

E0-C3-F3 (hex) zte
corporation
E0C3F3 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

5C-20-D0 (hex) Asoni Communication Co., Ltd.
5C20D0 (base 16) Asoni Communication Co., Ltd.
21F-1, No.97, Sec. 4, Chongsin Rd., Sanchong District
New Taipei City Taiwan 24161
TW

BC-62-9F (hex) Telenet Systems P. Ltd.
BC629F (base 16) Telenet Systems P. Ltd.
2 Mani Bhuvan, Cama Road
Mumbai Maharashtra 400086
IN

38-0F-E4 (hex) Dedicated Network Partners Oy
380FE4 (base 16) Dedicated Network Partners Oy
Linnoitustie 6
Espoo - 02600
FI

84-7A-88 (hex) HTC Corporation
847A88 (base 16) HTC Corporation

No. 23, Xinghua Rd., Taoyuan City
Taoyuan County Taiwan 330
TW

A4-D8-56 (hex) Gimbal, Inc
A4D856 (base 16) Gimbal, Inc
12526 High Bluff Drive
San Diego Ca 92130
US

78-55-17 (hex) SankyuElectronics
785517 (base 16) SankyuElectronics
2-30-12
Ohta-ku
Tokyo 146-0091
JP

B4-7F-5E (hex) Foresight Manufacture (S) Pte Ltd
B47F5E (base 16) Foresight Manufacture (S) Pte Ltd
1 Sims Lane #04-09
Singapore 387355
SG

44-18-4F (hex) Fitview
44184F (base 16) Fitview
5615 Scotts Valley Drive, Suite 110
Scotts Valley CA 95066
US

AC-A4-30 (hex) Peerless AV
ACA430 (base 16) Peerless AV
2300 White Oak Circle
Aurora illinios 60502
US

54-1F-D5 (hex) Advantage Electronics
541FD5 (base 16) Advantage Electronics
PO Box 407
Greenwood IN 46143
US

AC-E9-7F (hex) IoT Tech Limited
ACE97F (base 16) IoT Tech Limited
20b Lough Road
Lisburn Antrim BT28 2HA
GB

A0-FE-91 (hex) AVAT Automation GmbH

A0FE91 (base 16) AVAT Automation GmbH
Derendinger Strasse 40
Tuebingen 72072
DE

74-EC-F1 (hex) Acumen
74ECF1 (base 16) Acumen
6F, No.207-3, Sec 3, Beisin Rd
Sindian Dist New Taipei
City 23143
US

78-32-4F (hex) Millennium Group, Inc.
78324F (base 16) Millennium Group, Inc.
16 Tech Circle
Natick MA 01760
US

48-F2-30 (hex) Ubizcore Co.,LTD
48F230 (base 16) Ubizcore Co.,LTD
Kranz Techno #1420, Sangdaewon 1-dong
Seongnam-Si 462-729
KR

38-43-69 (hex) Patrol Products Consortium LLC
384369 (base 16) Patrol Products Consortium LLC
1128 Narragansett Blvd.
Cranston RI 02905
US

B8-5A-F7 (hex) Ouya, Inc
B85AF7 (base 16) Ouya, Inc
11693 San Vicente Blvd
Los Angeles CA 90049
US

84-AC-A4 (hex) Beijing Novel Super Digital TV Technology Co., Ltd
84ACA4 (base 16) Beijing Novel Super Digital TV Technology Co., Ltd
4F Tower B Jingmeng Hightech building
Beijing 100085
CN

58-09-E5 (hex) Kivic Inc.
5809E5 (base 16) Kivic Inc.
670 Sampyeong-dong, Bundang-gu
Seongnam City 463-400
KR

DC-6F-08 (hex) Bay Storage Technology
DC6F08 (base 16) Bay
Storage Technology
6200 Stoneridge Mall Road
Pleasanton CA 94588
US

58-D6-D3 (hex) Dairy Cheq Inc
58D6D3 (base 16) Dairy Cheq Inc
60 Baffin Place, Unit 5
Waterloo Ontario N2V 1Z7
CA

04-6E-49 (hex) TaiYear Electronic Technology (Suzhou) Co., Ltd
046E49 (base 16) TaiYear Electronic Technology (Suzhou) Co., Ltd
12-B101 Creative Industrial Park ,No. 328,Xinghu Street ,Suzhou Industrial Park
SuZhou JiangSu 215000
CN

E8-5A-A7 (hex) LLC Emzior
E85AA7 (base 16) LLC Emzior
Strelna, Svyazi street, 34, Lit A, of. 234
Saint-Petersburg 198515
RU

9C-9C-1D (hex) Starkey Labs Inc.
9C9C1D (base 16) Starkey Labs Inc.
6600 Washington Ave. S.
Eden Prairie MN 55344
US

9C-E1-D6 (hex) Junger Audio-Studiotechnik GmbH
9CE1D6 (base 16) Junger Audio-Studiotechnik GmbH
Justus-von-Liebig-Strasse 7
12489 Berlin
US

34-F6-2D (hex) SHARP Corporation
34F62D (base 16) SHARP
Corporation
1 Takumi-cho, Sakai-ku
Sakai City Osaka 590-8522
JP

4C-8F-A5 (hex) Jastec
4C8FA5 (base 16) Jastec
Jastec B/D 2F, 92-7 Kumgok-dong,
Boondang-gu, 463-804

KR

84-ED-33 (hex) BBMC Co.,Ltd
84ED33 (base 16) BBMC Co.,Ltd
#301, DaerungPostTower 3, 182-4,
Seoul None 152-746
KR

E8-2E-24 (hex) Out of the Fog Research LLC
E82E24 (base 16) Out of the Fog Research LLC
565 Clyde Avenue, Suite 620
Mountain View CA 94043
US

2C-3B-FD (hex) Netstor Technology Co., Ltd.
2C3BFD (base 16) Netstor Technology Co., Ltd.
6F, No. 1, Alley 16, Lane 235, Baoqiao Rd., Xindian District
New Taipei City 23145
US

1C-52-D6 (hex) FLAT DISPLAY TECHNOLOGY CORPORATION
1C52D6 (base 16) FLAT DISPLAY TECHNOLOGY CORPORATION
No.85, Sec. 1, Fuxing Rd., South Dist
Taichung 402
TW

D0-DF-B2 (hex) Genie Networks Limited
D0DFB2 (base 16) Genie Networks Limited
5F, No.15, Lane 360,
Sec., 1, Neihu Road,
Taipei 114
TW

38-66-45 (hex) OOSIC Technology CO.,Ltd
386645 (base 16) OOSIC Technology CO.,Ltd
8F,No 1559, Zuchongzhi Road
Shanghai 201203
CN

D0-D6-CC (hex) Wintop
D0D6CC (base 16) Wintop
No. 1301,Xinfei Road
Songjiang District Shanghai 201612
CN

58-D0-71 (hex) BW Broadcast
58D071 (base 16) BW Broadcast
Unit 27 IO Centre

Croydon Surrey CR0 4WQ
GB

80-FA-5B (hex) CLEVO CO.
80FA5B (base 16) CLEVO CO.
NO. 129, XINGDE ROAD
New TAIPEI CITY 241
TW

C0-B3-39 (hex) Comigo Ltd.
C0B339 (base 16) Comigo Ltd.
15 HaPardes St.
Yarkona 45915
IL

20-85-8C (hex) Assa
20858C (base 16) Assa
Gurogu Guro3dong Ace Twintower 2cha 209
Seoul 152-779
KR

80-07-A2 (hex) Esson Technology Inc.
8007A2 (base 16) Esson Technology Inc.
Room A2, 5F Longsheng Commericial Building,
Baoan District ShenZhen 518000
CN

C0-A0-E2 (hex) Eden
Innovations
C0A0E2 (base 16) Eden Innovations
ZAC
Eguilles PACA 13510
FR

6C-5A-34 (hex) Shenzhen Haitianxiong Electronic Co., Ltd.
6C5A34 (base 16) Shenzhen Haitianxiong Electronic Co., Ltd.
Rm.407, Block A, University-town Business Park, Taoyuan street, Lishan Road
Shenzhen Guangdong 518055
CN

DC-B0-58 (hex) Bürkert Werke GmbH
DCB058 (base 16) Bürkert Werke GmbH
Christian-Bürkert-Straße 13-17
Ingelfingen Baden-Württemberg 74653
DE

60-CD-C5 (hex) Taiwan Carol Electronics., Ltd
60CDC5 (base 16) Taiwan Carol Electronics., Ltd

No.202, Tung Kuang Road
Taichung Taiwan 40151
TW

D8-18-2B (hex) Conti Temic Microelectronic GmbH
D8182B (base 16) Conti Temic Microelectronic GmbH
Sieboldstraße 19
Nuremberg Bavaria 90411
DE

80-CF-41 (hex) Lenovo Mobile Communication Technology Ltd.
80CF41 (base 16) Lenovo Mobile Communication Technology Ltd.
No.999,Qishan North 2nd
Road,Information&Optoelectronics Park,Torch Hi-tech Industry Development Zone,
Xiamen Fujian 361006
US

90-38-DF (hex) Changzhou Tiannengbo System Co. Ltd.
9038DF (base 16) Changzhou Tiannengbo System Co. Ltd.
#9 East Hehai Road, RM 306
Changzhou Jiangsu Province 213000
CN

18-52-53 (hex) Pixord Corporation
185253 (base 16) Pixord Corporation
6F, No 12, Innovation 1st Road
Hsinchu 30076
TW

68-3B-1E (hex) Countwise LTD
683B1E (base 16) Countwise LTD
1149 Sawgrass Corporate Parkway
Sunrise Florida 33323
US

10-FB-F0 (hex) KangSheng LTD.
10FBF0 (base 16) KangSheng LTD.
2F., No.11,
New Taipei City 24889
TW

B4-9D-B4 (hex) Axion Technologies Inc.
B49DB4 (base 16) Axion Technologies Inc.
105-1203, 70, Jingeononam-ro
Namyangju Gyeonggi-do 472-859
KR

AC-E8-7E (hex) Bytemark Computer Consulting Ltd

ACE87E (base 16) Bytemark Computer Consulting Ltd
Unit 2
Opus
Avenue York YO26 6BL
GB

AC-A2-2C (hex) Baycity Technologies Ltd
ACA22C (base 16) Baycity Technologies Ltd
10 Nazareth Ave
Christchurch Canterbury 8024
NZ

6C-9A-C9 (hex) Valentine Research, Inc.
6C9AC9 (base 16) Valentine Research, Inc.
10280 Alliance Rd
Cincinnati OH 45242
US

08-0F-FA (hex) KSP INC.
080FFA (base 16) KSP INC.
RM 501, 138 Kwangdeokdae-ro
Danwon-gu, Ansan-si Gyeonggi-do 425906
KR

AC-3C-B4 (hex) Nilan A/S
AC3CB4 (base 16) Nilan A/S
Nilanvej 2
Hedensted Vejle amt 8722
DK

B8-5A-FE (hex) Handaer Communication Technology (Beijing) Co., Ltd
B85AFE (base 16) Handaer Communication Technology (Beijing) Co., Ltd
Jiancaicheng West Rd.65,Xisanqi,
Beijing 100096
CN

60-74-8D (hex) Atmaca Elektronik
60748D (base 16) Atmaca Elektronik
Namik Kemal Mahallesi 177, Sokak No:2
Istanbul Esenyurt 34510
TR

B8-B7-D7 (hex) 2GIG Technologies
B8B7D7
(base 16) 2GIG Technologies
2961 West Maple Loop Drive
Lehi Utah 84043
US

78-D1-29 (hex) Vicos
78D129 (base 16) Vicos
Eugenmuellerstrasse 14
Salzburg Salzburg 5020
AT

84-DF-0C (hex) NET2GRID BV
84DF0C (base 16) NET2GRID BV
Krullelaan 28
Zeist Utrecht 3701 TD
NL

78-AB-60 (hex) ABB Australia
78AB60 (base 16) ABB Australia
PMB 88
Berrimah NT 0828
AU

84-82-F4 (hex) Beijing Huasun Unicreate Technology Co., Ltd
8482F4 (base 16) Beijing Huasun Unicreate Technology Co., Ltd
North Region 6th Floor, Tower A, Huizhi Mansion,
Beijing 100085
CN

5C-D4-1B (hex) UCZOON Technology Co., LTD
5CD41B (base 16) UCZOON Technology Co., LTD
9 th Floor,Pan Gu Plaza,No.27 North 4 th Ring,
Beijing Beijing 100029
CN

CC-E7-98 (hex) My Social Stuff
CCE798 (base 16) My Social Stuff
Sint-Hubertussyraat 65
Berchem 2600
BE

A0-36-F0 (hex) Comprehensive Power
A036F0
(base 16) Comprehensive Power
420 Northboro Road Central
Marlborough MA 01752
US

18-0C-AC (hex) CANON INC.
180CAC (base 16) CANON INC.
3-30-2
Ohta-Ku Tokyo 146-8501

JP

AC-72-36 (hex) Lexking Technology Co., Ltd.
AC7236 (base 16) Lexking Technology Co., Ltd.
2F, No. 3, Baoqiang Road,
New Taipei City Taiwan 231111
TW

3C-D7-DA (hex) SK Mtek microelectronics(shenzhen)limited
3CD7DA (base 16) SK Mtek microelectronics(shenzhen)limited
12F, Micro-profit Building,South 6 road
Shenzhen Guangdong 518057
CN

04-F8-C2 (hex) Flaircomm Microelectronics, Inc.
04F8C2 (base 16) Flaircomm Microelectronics, Inc.
7F,Guomai Building,116 East JiangBin Ave
Fuzhou Fujian 350015
CN

80-82-87 (hex) ATCOM Technology Co.Ltd.
808287 (base 16) ATCOM Technology Co.Ltd.
A-2F, #3 , Crown industry buildings
Shenzhen Guang Dong 518040
US

28-A1-86 (hex) enblink
28A186 (base 16) enblink
Room
212 Building 105-1 SNU
SEOUL 151-742
KR

68-69-F2 (hex) ComAp s.r.o.
6869F2 (base 16) ComAp s.r.o.
Kundratka 17
Prague 18000
CZ

58-87-E2 (hex) Shenzhen Coship Electronics Co., Ltd.
5887E2 (base 16) Shenzhen Coship Electronics Co., Ltd.
Rainbow Bldg., North, Hi-Tech Industrial Park
Shenzhen Guangdong 518057
CN

F4-6D-E2 (hex) zte corporation
F46DE2 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China

shenzhen guangdong 518057
CN

38-8E-E7 (hex) Fanhattan LLC
388EE7 (base 16) Fanhattan LLC
489 S El Camino Real
San Mateo CA 94402
US

20-91-D9 (hex) I'M SPA
2091D9 (base 16) I'M SPA
VIA BIRON 102/3
MONTEVIALE VICENZA 36050
IT

14-1B-F0 (hex) Intellimedia Systems Ltd
141BF0 (base 16) Intellimedia Systems Ltd
Sandhill Barn
Washington West Sussex RH204TD
GB

30-32-94 (hex) W-IE-NE-R Plein & Baus GmbH
303294
(base 16) W-IE-NE-R Plein & Baus GmbH
Muellersbaum 20
Burscheid NRW 51399
US

7C-82-2D (hex) Nortec
7C822D (base 16) Nortec
2740 Fenton Rd
Ottawa ON K1T3T7
US

AC-8D-14 (hex) Smartrove Inc
AC8D14 (base 16) Smartrove Inc
19630 Allendale Ave.
Saratoga CA 95070
US

50-39-55 (hex) Cisco SPVTG
503955 (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

34-99-6F (hex) VPI Engineering
34996F (base 16) VPI Engineering

11814 S. Election Rd., Suite 200
Draper UT 84020
US

7C-D9-FE (hex) New Cosmos Electric Co., Ltd.
7CD9FE (base 16) New Cosmos Electric Co., Ltd.
2-5-4 Mitsuyanaka
Osaka Osaka-fu 532-0036
JP

CC-C1-04 (hex) Applied Technical Systems
CCC104 (base 16) Applied Technical Systems
P.O. Box 5705
Shreveport LA 71135
US

A4-B1-E9 (hex) Technicolor Delivery Technologies Belgium NV
A4B1E9 (base 16) Technicolor
Delivery Technologies Belgium NV
Prins Boudewijnlaan 47
Edegem - Belgium B-2650
BE

4C-72-B9 (hex) PEGATRON CORPORATION
4C72B9 (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

90-70-25 (hex) Garea Microsys Co.,Ltd.
907025 (base 16) Garea Microsys Co.,Ltd.
4th Floor, Building 2, Software Park
Suzhou Jiangsu 215163
CN

10-D1-DC (hex) INSTAR Deutschland GmbH
10D1DC (base 16) INSTAR Deutschland GmbH
Auf der Hostert 17
Huenstetten Bechtheim Hessen 65510
DE

2C-ED-EB (hex) Alpheus Digital Company Limited
2CEDEB (base 16) Alpheus Digital Company Limited
Room 2, 23/F Tak King Industrial building
Hong Kong 852
HK

00-DB-1E (hex) Albedo Telecom SL

00DB1E (base 16) Albedo Telecom SL
Joan d'Austria 112
Barcelona 08018
ES

34-AF-2C (hex) Nintendo Co., Ltd.
34AF2C (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO
KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

0C-DC-CC (hex) Inala Technologies
0CDCCC (base 16) Inala Technologies
Inala House, 557 15th Road
Midrand Gauteng 1685
ZA

98-29-1D (hex) Jaguar de Mexico, SA de CV
98291D (base 16) Jaguar de Mexico, SA de CV
Calle Tabla Grande No.2
Jilotzongo Estado de Mexico 54570
MX

0C-D9-96 (hex) Cisco Systems, Inc
0CD996 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

30-F3-3A (hex) +plugg srl
30F33A (base 16) +plugg srl
via giovanni ventura, 5
Milano MI 20134
IT

F8-A0-3D (hex) Dinstar Technologies Co., Ltd.
F8A03D (base 16) Dinstar Technologies Co., Ltd.
Floor 6, Guoxing Building
shenzhen Guangdong 518052
US

2C-D4-44 (hex) FUJITSU LIMITED
2CD444 (base 16) FUJITSU LIMITED
403, Kosugi-cho 1-chome, Nakahara-ku
Kawasaki Kanagawa 211-0063
JP

0C-57-EB (hex) Mueller Systems
0C57EB (base
16) Mueller Systems
48 Leona Drive, Suite C
Middleboro MA 02346
US

74-53-27 (hex) COMMSEN CO., LIMITED
745327 (base 16) COMMSEN CO., LIMITED
12/F., San Toi Building,139 Connaught Road Central
999077
HK

D0-8C-FF (hex) UPWIS AB
D08CFF (base 16) UPWIS AB
Box 3000
Uppsala Uppsala 75003
SE

68-D1-FD (hex) Shenzhen Trimax Technology Co.,Ltd
68D1FD (base 16) Shenzhen Trimax Technology Co.,Ltd
Room 1016, 10F, Max Smart Commercial Center,
Shenzhen Guangdong 518133
CN

BC-28-D6 (hex) Rowley Associates Limited
BC28D6 (base 16) Rowley Associates Limited
Suite 4B/4C Drake House
Dursley Gloucestershire GL11 4HH
GB

10-BD-18 (hex) Cisco Systems, Inc
10BD18 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

58-69-F9 (hex) Fusion Transactive Ltd.
5869F9 (base 16) Fusion Transactive Ltd.
PO Box 68281
Auckland 1145
NZ

D4-1E-35
(hex) TOHO Electronics INC.
D41E35 (base 16) TOHO Electronics INC.
1-13-21 Tanashioda, Chuo-Ku
Sagamihara-City Kanagawa 252-0245

JP

98-A7-B0 (hex) MCST ZAO
98A7B0 (base 16) MCST ZAO
35/50, Nizhnyaya Krasnoselskaya St.,
Moscow 105666
RU

8C-C7-AA (hex) Radinet Communications Inc.
8CC7AA (base 16) Radinet Communications Inc.
7F-2, No.229, Fuxing 2nd Rd, Zhubei, 30271
Hsinchu Taiwan 30271
US

40-33-6C (hex) Godrej & Boyce Mfg. co. ltd
40336C (base 16) Godrej & Boyce Mfg. co. ltd
PSS TECH CELL, 2ND FLOOR, PLANT 17, SECURITY SOLUTIONS DIVISION
MUMBAI MAHARASHTRA 400079
IN

E8-56-D6 (hex) NCTech Ltd
E856D6 (base 16) NCTech Ltd
20-22 Braid Road
Edinburgh EH10 6AD
GB

C0-81-70 (hex) Effigis GeoSolutions
C08170 (base 16) Effigis GeoSolutions
4101, rue Molson
Montreal Quebec H1Y3L1
CA

60-45-5E (hex) Liptel s.r.o.
60455E (base 16) Liptel s.r.o.
Hradna 338
Liptovsky
Hradok 03301
SK

D8-06-D1 (hex) Honeywell Fire System (Shanghai) Co,. Ltd.
D806D1 (base 16) Honeywell Fire System (Shanghai) Co,. Ltd.
No. 430, Li Bing Road, Pudong
Shanghai Shanghai 201203
CN

64-76-57 (hex) Innovative Security Designs
647657 (base 16) Innovative Security Designs
18 Technology Drive

Irvine CA 92618
US

94-4A-09 (hex) BitWise Controls
944A09 (base 16) BitWise Controls
98 Inverness Dr East
Englewood CO 80112
US

9C-06-6E (hex) Hytera Communications Corporation Limited
9C066E (base 16) Hytera Communications Corporation Limited
Hytera Tower, Hi-Tech Industrial Park North, Nanshan District
Shenzhen Guangdong 518057
US

44-38-39 (hex) Cumulus Networks, inc
443839 (base 16) Cumulus Networks, inc
650 Castro Street, suite 120-245
Mountain View CA 94041
US

D8-67-D9 (hex) Cisco Systems, Inc
D867D9 (base 16) Cisco Systems, Inc
80 West
Tasman Drive
San Jose CA 94568
US

64-22-16 (hex) Shandong Taixin Electronic co.,Ltd
642216 (base 16) Shandong Taixin Electronic co.,Ltd
FL.6,Haichen Building
Jinan Shandong 250010
CN

A4-E7-31 (hex) Nokia Corporation
A4E731 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

3C-EA-FB (hex) NSE AG
3CEAFB (base 16) NSE AG
Bremgarterstrasse 54
Wohlen AG 5610
CH

BC-81-1F (hex) Ingate Systems
BC811F (base 16) Ingate Systems

Rissneleden 45
Sundbyberg 17444
SE

4C-06-8A (hex) Basler Electric Company
4C068A (base 16) Basler Electric Company
12570 State Route 143
Highland Illinois 62249
US

A4-4C-11 (hex) Cisco Systems, Inc
A44C11 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

60-84-3B (hex) Soladigm, Inc.
60843B (base 16) Soladigm, Inc.
195. S Milpitas Blvd
Milpitas CA 95035
US

20-9B-A5 (hex) JIAXING
GLEAD Electronics Co.,Ltd
209BA5 (base 16) JIAXING GLEAD Electronics Co.,Ltd
No.66 Zhengyuan Road in Tanghu Industrial Garden
Jiaxing Zhejiang 314003
CN

A0-F4-50 (hex) HTC Corporation
A0F450 (base 16) HTC Corporation
No. 23, Xinghua Rd., Taoyuan City
Taoyuan County Taiwan 330
TW

60-89-B1 (hex) Key Digital Systems
6089B1 (base 16) Key Digital Systems
521 E 3rd Street
Mount Vernon NY 10553
US

44-D1-5E (hex) Shanghai Kingto Information Technology Ltd
44D15E (base 16) Shanghai Kingto Information Technology Ltd
No.738 Guangji RD.3F shanghai.china
shanghai 200434
CN

68-D9-25 (hex) ProSys Development Services

68D925 (base 16) ProSys Development Services
Mill House
Mitcham Surrey CR4 4HY
GB

84-8D-84 (hex) Rajant Corporation
848D84 (base 16) Rajant Corporation
400 East King Street
Malvern PA 19355
US

D8-33-7F (hex) Office FA.com Co.,Ltd.
D8337F
(base 16) Office FA.com Co.,Ltd.
293-21
Oyama-shi Tochigi 329-0216
JP

00-36-F8 (hex) Conti Temic microelectronic GmbH
0036F8 (base 16) Conti Temic microelectronic GmbH
Dornierstraße 1
Markdorf 88677
DE

AC-94-03 (hex) Envision Peripherals Inc
AC9403 (base 16) Envision Peripherals Inc
47490 Seabridge Dr
Fremont California 94538
US

04-8B-42 (hex) Skspruce Technologies
048B42 (base 16) Skspruce Technologies
A1, Tianfu Software Park, 1129 Century City Road
High-tech Zone, Chengdu Sichuan 610041
CN

50-76-A6 (hex) Ecil Informatica Ind. Com. Ltda
5076A6 (base 16) Ecil Informatica Ind. Com. Ltda
Av. Araguacema, 388
Barueri São Paulo 06460-070
BR

A4-F7-D0 (hex) LAN Accessories Co., Ltd.
A4F7D0 (base 16) LAN Accessories Co., Ltd.
8F-1, No. 159, Sec. 1 Hsin Tai Wu Road,
New Taipei City, 221
US

00-36-FE (hex) SuperVision
0036FE (base 16) SuperVision
po
box 3472
palos verdes CA 90274
US

54-46-6B (hex) Shenzhen CZTIC Electronic Technology Co., Ltd
54466B (base 16) Shenzhen CZTIC Electronic Technology Co., Ltd
Xinghe Building, Zhongxin Road, Shajing Town, Baoan
SHENZHEN GUANGDONG 518104
CN

44-B3-82 (hex) Kuang-chi Institute of Advanced Technology
44B382 (base 16) Kuang-chi Institute of Advanced Technology
Software building, Gaoxingzhong 1st Road,
Shenzhen Guangdong 518057
CN

70-9E-86 (hex) X6D Limited
709E86 (base 16) X6D Limited
199, Arch. Makariou III
Limassol 3030
CY

A0-F4-19 (hex) Nokia Corporation
A0F419 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

1C-97-3D (hex) PRICOM Design
1C973D (base 16) PRICOM Design
2755 Slocum Rd
Peyton CO 80831
US

BC-02-00 (hex) Stewart Audio
BC0200 (base 16) Stewart Audio
100 West El Camino Real
Mountain View CA 94041
US

D4-EC-0C (hex) Harley-Davidson
Motor Company
D4EC0C (base 16) Harley-Davidson Motor Company
3700 W. Juneau Avenue
Milwaukee Wisconsin 53208

US

6C-A9-6F (hex) TransPacket AS
6CA96F (base 16) TransPacket AS
Drammensveien 134
Oslo 0277
NO

AC-01-42 (hex) Uriel Technologies SIA
AC0142 (base 16) Uriel Technologies SIA
Dzerbenes iela 14
Riga LV-1006
LV

60-B9-33 (hex) Deutron Electronics Corp.
60B933 (base 16) Deutron Electronics Corp.
8F, 68, Sec. 3, Nanking E. Rd.
Taipei Taiwan 104
TW

48-91-53 (hex) Weinmann Geräte für Medizin GmbH + Co. KG
489153 (base 16) Weinmann Geräte für Medizin GmbH + Co. KG
Kronsaalsweg 40
Hamburg D-22525
DE

F4-48-48 (hex) Amscreen Group Ltd
F44848 (base 16) Amscreen Group Ltd
Paragon Business Park
Bolton Lancs BL6 6HG
GB

50-D2-74 (hex) Steffes Corporation
50D274 (base 16) Steffes Corporation
3050 Highway 22 North
Dickinson
ND 58601
US

F8-50-63 (hex) Verathon
F85063 (base 16) Verathon
20001 N Creek Pkwy
Bothell WA 98011
US

F0-D1-4F (hex) LINEAR LLC
F0D14F (base 16) LINEAR LLC
5919 Sea Otter Place

Carlsbad CA 92010
US

00-43-FF (hex) KETRON S.R.L.
0043FF (base 16) KETRON S.R.L.
Via Giuseppe Taliercio n. 7
Ancona 60131
IT

7C-AC-B2 (hex) Bosch Software Innovations GmbH
7CACB2 (base 16) Bosch Software Innovations GmbH
Ziegelei 7
Immenstaad BadenWuertemberg 88090
DE

5C-6F-4F (hex) S.A. SISTEL
5C6F4F (base 16) S.A. SISTEL
C/SOLSONES, 87
CASTELLAR DEL VALLES BARCELONA 08211
ES

90-1B-0E (hex) Fujitsu Technology Solutions GmbH
901B0E (base 16) Fujitsu Technology Solutions GmbH
Buergermeister-Ulrich-Strasse 100
Augsburg Bayern 86199
DE

2C-36-F8 (hex) Cisco Systems, Inc
2C36F8 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

58-08-FA
(hex) Fiber Optic & telecommunication INC.
5808FA (base 16) Fiber Optic & telecommunication INC.
161-4 Kumjeong-Dong,
Kunpo-city Gyeonggi-Do 435-824
KR

84-57-87 (hex) DVR C&C Co., Ltd.
845787 (base 16) DVR C&C Co., Ltd.
7F 720 Namkwang Centlex Bldg, Cheongcheon-dong, Bupyeong-gu
Incheon 403-030
KR

C8-56-45 (hex) Intermas France
C85645 (base 16) Intermas France

Rue de l'industrie
Beauvais Oise 60000
FR

44-34-8F (hex) MXT INDUSTRIAL LTDA
44348F (base 16) MXT INDUSTRIAL LTDA
RODOVIA BR 381, KM 490, JARDIM DAS ALTEROSAS
BETIM MINAS GERAIS 32670790
BR

C4-7B-A3 (hex) NAVIS Inc.
C47BA3 (base 16) NAVIS Inc.
Dmitrovskoe shosse 157
Moscow 127411
RU

C8-F7-04 (hex) Building Block Video
C8F704 (base 16) Building Block Video
17 APex Park
Hailsham East Sussex BN27 2JU
GB

50-8A-42 (hex) Uptmate Technology Co., LTD
508A42 (base 16) Uptmate Technology Co.,
LTD
6F., No.5, Jian 1st Rd.,Zhonghe Dist.,
New Taipei City 23558
TW

BC-EA-2B (hex) CityCom GmbH
BCEA2B (base 16) CityCom GmbH
Am Kroit 25
Amerang Bavaria 83123
DE

18-D6-6A (hex) Inmarsat
18D66A (base 16) Inmarsat
99 City Road
London EC1Y 1AX
GB

28-E6-08 (hex) Tokheim
28E608 (base 16) Tokheim
Industrieweg 5
Bladel NBr 5531 AD
NL

74-FF-7D (hex) Wren Sound Systems, LLC

74FF7D (base 16) Wren Sound Systems, LLC
169 Gateshead Way
Phoenixville PA 19460
US

AC-F0-B2 (hex) Becker Electronics Taiwan Ltd.
ACF0B2 (base 16) Becker Electronics Taiwan Ltd.
No.32, Lane 30, Long Yuan Rd.
Long-Tan Taoyuan 32544
TW

54-2A-9C (hex) LSY Defense, LLC.
542A9C (base 16) LSY Defense, LLC.
4175 Westport Rd.
Louisville Kentucky 40207
US

50-4A-5E (hex) Masimo Corporation
504A5E (base 16) Masimo Corporation
40 Parker
Irvine California 92618
US

1C-7C-45
(hex) Vitek Industrial Video Products, Inc.
1C7C45 (base 16) Vitek Industrial Video Products, Inc.
28492 Constellation Rd
Valencia CA 91355
US

3C-38-88 (hex) ConnectQuest, llc
3C3888 (base 16) ConnectQuest, llc
P.O. Box 425
West Simsbury Connecticut 06092
US

48-D7-FF (hex) BLANKOM Antennentechnik GmbH
48D7FF (base 16) BLANKOM Antennentechnik GmbH
Hermann-Petersilge Str. 1
Bad Blankenburg TH 07422
DE

C4-71-30 (hex) Fon Technology S.L.
C47130 (base 16) Fon Technology S.L.
Avda. Bruselas, n. 7, Planta 3, Alcobendas
Madrid 28100
ES

AC-3D-05 (hex) Instorescreen Aisa
AC3D05 (base 16) Instorescreen Aisa
Room 207, North Bldg,No 28
Shanghai 200237
CN

00-D6-32 (hex) GE Energy
00D632 (base 16) GE Energy
Lissue Industrial Estate East
Lisburn Co Antrim BT28 2RE
GB

C4-3C-3C (hex) CYBELEC SA
C43C3C (base 16) CYBELEC SA
Rue des Uttins 27
Yverdon-les-Bains
1401
CH

B8-26-D4 (hex) Furukawa Industrial S.A. Produtos Elétricos
B826D4 (base 16) Furukawa Industrial S.A. Produtos Elétricos
Rua Hasdrubal Bellegard, 820
Parana 81460-120
BR

B8-74-47 (hex) Convergence Technologies
B87447 (base 16) Convergence Technologies
16W215 83rd Street Suite D
Burr Ridge IL 60527
US

D0-1A-A7 (hex) UniPrint
D01AA7 (base 16) UniPrint
Unit 309, 1 Eva Road
Toronto Ontario M9C 4Z5
CA

E0-5D-A6 (hex) Detlef Fink Elektronik & Softwareentwicklung
E05DA6 (base 16) Detlef Fink Elektronik & Softwareentwicklung
Brühlstraße 13
Mössingen 72116
DE

84-6A-ED (hex) Wireless Tsukamoto.,co.LTD
846AED (base 16) Wireless Tsukamoto.,co.LTD
16-21 1chome,Isoyama
Suzuka Mie-pref 5100256
JP

74-63-DF (hex) VTS GmbH
7463DF (base 16) VTS GmbH
Am Königholz Ost 4
Eglhausen Bavaria 85411
DE

BC-12-5E (hex) Beijing WisVideo
INC.
BC125E (base 16) Beijing WisVideo INC.
RM 3A08 Technology&Fortune Center A block No.8 Xue Qing Road,Haidian District ,
Beijing 100192
CN

14-E4-EC (hex) mLogic LLC
14E4EC (base 16) mLogic LLC
8440 Warner Drive
Culver City CA 90232
US

38-28-EA (hex) Fujian Netcom Technology Co., LTD
3828EA (base 16) Fujian Netcom Technology Co., LTD
Netcom Technology Building, B Zone:Tongpan Software Park,
Fuzhou Fujian 350003
CN

04-5A-95 (hex) Nokia Corporation
045A95 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

04-F4-BC (hex) Xena Networks
04F4BC (base 16) Xena Networks
Graabroedretorv 6, 3. sal
København Danmark 1154
DK

6C-3A-84 (hex) Shenzhen Aero-Startech. Co.Ltd
6C3A84 (base 16) Shenzhen Aero-Startech. Co.Ltd
F3-4, Building3,Zhongyuntai Industrial Park.Shiyan Town.,
Shenzhen Guangdong 518108
CN

0C-9E-91 (hex) Sankosha Corporation
0C9E91
(base 16) Sankosha Corporation
1-12, Miyashimo

Sagamihara-shi Kanagawa-ken 252-0212
JP

C8-F9-F9 (hex) Cisco Systems, Inc
C8F9F9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

80-DB-31 (hex) Power Quotient International Co., Ltd.
80DB31 (base 16) Power Quotient International Co., Ltd.
8F., No. 49, Sec. 4, Jhongyang Rd., Tu Cheng Dist.,
New Taipei City 23675
TW

1C-51-B5 (hex) Techaya LTD
1C51B5 (base 16) Techaya LTD
P.O.B 1500
Pardes Hanna 3700
IL

A4-56-30 (hex) Cisco Systems, Inc
A45630 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

28-60-94 (hex) CAPELEC
286094 (base 16) CAPELEC
1130 rue des Marels
Montpellier Hérault 34000
FR

38-3F-10 (hex) DBL Technology Ltd.
383F10 (base 16) DBL Technology Ltd.
Unit 42, 18/F., Block D, Wah Lok Industrial Center

HK

AC-D3-64 (hex) ABB SPA,
ABB SACE DIV.
ACD364 (base 16) ABB SPA, ABB SACE DIV.
V.LE DELL'INDUSTRIA, 18
VITTUONE MI 20010
IT

A4-EF-52 (hex) Telewave Co., Ltd.
A4EF52 (base 16) Telewave Co., Ltd.

A-203, SK Twintech Tower
Seoul 153-773
KR

A8-26-D9 (hex) HTC Corporation
A826D9 (base 16) HTC Corporation
No. 23, Xinghua Rd., Taoyuan City
Taoyuan County Taiwan 330
TW

28-94-0F (hex) Cisco Systems, Inc
28940F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

B8-DA-F7 (hex) Advanced Photonics, Inc.
B8DAF7 (base 16) Advanced Photonics, Inc.
the University of Tokyo, CCR507
Meguro-ku Tokyo 153-8904
JP

14-3A-EA (hex) Dynapower Company LLC
143AEA (base 16) Dynapower Company LLC
85 Meadowland Drive
South Burlington VT 05403
US

B4-D8-A9 (hex) BetterBots
B4D8A9 (base 16) BetterBots
1600 Wilson Way SE, Ste. 9
Smyrna GA 30082
US

7C-C8-D7 (hex) Damalisk
7CC8D7
(base 16) Damalisk
Coriolis 2
ECUISSES 71210
FR

94-2E-17 (hex) Schneider Electric Canada Inc
942E17 (base 16) Schneider Electric Canada Inc
1400 industrielle street
La Prairie Quebec J5R 2E5
CA

9C-B0-08 (hex) Ubiquitous Computing Technology Corporation

9CB008 (base 16) Ubiquitous Computing Technology Corporation
2-20-1 Nishi-Gotanda
Shinagawa-ku Tokyo 1410031
JP

A8-77-6F (hex) Zonoff
A8776F (base 16) Zonoff
70E Swedesford Rd
Malvern PA 19355
US

00-FA-3B (hex) CLOOS ELECTRONIC GMBH
00FA3B (base 16) CLOOS ELECTRONIC GMBH
Jambe ducommun 8
LE LOCLE 2400
CH

CC-94-4A (hex) Pfeiffer Vacuum GmbH
CC944A (base 16) Pfeiffer Vacuum GmbH
Berliner Str. 43
Asslar Hessen 35614
DE

0C-85-25 (hex) Cisco Systems, Inc
0C8525 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

C4-60-44 (hex) Everex Electronics Limited
C46044
(base 16) Everex Electronics Limited
Unit 3, Block A, 16/F

HK

98-FE-03 (hex) Ericsson - North America
98FE03 (base 16) Ericsson - North America
6300 Legacy Drive
Plano TX 75024
US

20-AA-4B (hex) Cisco-Linksys, LLC
20AA4B (base 16) Cisco-Linksys, LLC
121 Theory Drive
Irvine California 92612
US

2C-EE-26 (hex) Petroleum Geo-Services
2CEE26 (base 16) Petroleum Geo-Services
12555 Harris Branch Pkwy
Austin TX 78653
US

A0-86-EC (hex) SAEHAN HITEC Co., Ltd
A086EC (base 16) SAEHAN HITEC Co., Ltd
16-3, Yongsu-ri, Chowol-eup
Gwangju-si, Gyeonggi-do 464-865
KR

E0-3C-5B (hex) SHENZHEN JIAXINJIE ELECTRON CO.,LTD
E03C5B (base 16) SHENZHEN JIAXINJIE ELECTRON CO.,LTD
Shenzhen Jiaxinjie Security Industrial park,No 6 Xin He Xin xing Industrial Park, Fuyong Town,Bao'an District
SHENZHEN GUANGDONG 518103
CN

28-38-CF (hex) Gen2wave
2838CF (base 16) Gen2wave
Gumi-dong,
Bundang-gu
Seongnam-si Gyeonggi-do 463-741
KR

60-B6-06 (hex) Phorus
60B606 (base 16) Phorus
16255 Ventura Boulevard, Suite 310
Encino CA 91436
US

90-92-B4 (hex) Diehl BGT Defence GmbH & Co. KG
9092B4 (base 16) Diehl BGT Defence GmbH & Co. KG
Alte Nussdorfer Strasse 13
Ueberlingen 88662
DE

FC-45-5F (hex) JIANGXI SHANSHUI OPTOELECTRONIC TECHNOLOGY CO.,LTD
FC455F (base 16) JIANGXI SHANSHUI OPTOELECTRONIC TECHNOLOGY CO.,LTD
No.1010,Anping Road,Eco-Industrial Park,Lushan District
Jiujiang Jiangxi 332000
CN

F0-4A-2B (hex) PYRAMID Computer GmbH
F04A2B (base 16) PYRAMID Computer GmbH
Boetzinger Strasse 60
Freiburg BW 79111
DE

A8-5B-F3 (hex) Audivo GmbH
A85BF3 (base 16) Audivo GmbH
Irrenloher Damm 17
Schwarzenfeld 92521
DE

B8-97-5A (hex) BIOSTAR Microtech Int'l Corp.
B8975A (base 16) BIOSTAR Microtech Int'l Corp.
2Fl. No. 108-2, Min Chuan
Road, Hsin Tien Dist.,
New Taipei 231
TW

48-33-DD (hex) ZENNIO AVANCE Y TECNOLOGIA, S.L.
4833DD (base 16) ZENNIO AVANCE Y TECNOLOGIA, S.L.
RIO JARAMA 132 NAVE P8.11
TOLEDO 45007
ES

10-FC-54 (hex) Shany Electronic Co., Ltd.
10FC54 (base 16) Shany Electronic Co., Ltd.
4F, No. 92, Section 1, Nei-Hu Road
Taipei 114
TW

C0-29-73 (hex) Audyssey Laboratories Inc.
C02973 (base 16) Audyssey Laboratories Inc.
110 E. 9th Street, Suite C700
Los Angeles CA 90079
US

24-BC-82 (hex) Dali Wireless, Inc.
24BC82 (base 16) Dali Wireless, Inc.
125 University Avenue, Suite 88
Palo Alto CA 94301
US

08-75-72 (hex) Obelux Oy
087572 (base 16) Obelux Oy
Kutomotie 6 B
Helsinki 00380
FI

10-C2-BA (hex) UTT Co., Ltd.
10C2BA (base 16) UTT Co., Ltd.

Seoul Korea 135-913

KR

90-D7-4F (hex) Bookeen
90D74F (base 16) Bookeen
27, rue de la Vistule
Paris
75013
FR

64-C5-AA (hex) South African Broadcasting Corporation
64C5AA (base 16) South African Broadcasting Corporation
77 Twickenham Avenue
Auckland Park Gauteng 2006
ZA

CC-6D-EF (hex) TJK Tietolaite Oy
CC6DEF (base 16) TJK Tietolaite Oy
PL 443
Vaasa 65101
FI

9C-53-CD (hex) ENGICAM s.r.l.
9C53CD (base 16) ENGICAM s.r.l.
Via Dei Pratoni n.16
Scandicci FIRENZE 50018
IT

60-86-45 (hex) Avery Weigh-Tronix, LLC
608645 (base 16) Avery Weigh-Tronix, LLC
1000 Armstrong Drive
Fairmont MN 56031
US

FC-8F-C4 (hex) Intelligent Technology Inc.
FC8FC4 (base 16) Intelligent Technology Inc.
Yuanhe 3 Street,Tongsha Industrial Zone,
Dongguan Guangdong 523127
CN

54-1D-FB (hex) Freestyle Energy Ltd
541DFB (base 16) Freestyle Energy Ltd
18-24 Ricketts Road
Mount Waverley Victoria 3149
AU

24-C0-B3 (hex) RSF
24C0B3 (base 16) RSF
45 Av Marcel Dassault

Toulouse
Garonne, Haute (31) 31500
FR

60-35-53 (hex) Buwon Technology
603553 (base 16) Buwon Technology
(Cunuitechnopark 102-1507) 200-1,Chunui-dong
Buchon-si Gyeinggi-do 420-857
KR

98-AA-D7 (hex) BLUE WAVE NETWORKING CO LTD
98AAD7 (base 16) BLUE WAVE NETWORKING CO LTD
No. 20, Lane 68, Da-feng RD,
NEW TAIPEI TAIPEI 23121
TW

7C-33-6E (hex) MEG Electronics Inc.
7C336E (base 16) MEG Electronics Inc.
Bogazici Universitesi Kuzey Kampus
ISTANBUL 34342
TR

B4-0C-25 (hex) Palo Alto Networks
B40C25 (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

E0-39-D7 (hex) Plexxi, Inc.
E039D7 (base 16) Plexxi, Inc.
100 Innovative Way Suite 3322
Nashua NH 03062
US

50-0B-32 (hex) Foxda Technology Industrial(ShenZhen)Co.,LTD
500B32 (base 16) Foxda Technology Industrial(ShenZhen)Co.,LTD
1F of 1st Building&1F-3F of 2nd Building, Foxda Industrial Zone,North
of Lanzhu Road,Pingshan New District,Shenzhen City,Guangdong Province,P.R.China
Shenzhen Guangdong 518122
CN

30-2D-E8 (hex) JDA, LLC (JDA Systems)
302DE8 (base 16) JDA, LLC (JDA Systems)
4080 Pike Lane
Concord CA 94520
US

48-A6-D2 (hex) GJsun Optical Science and Tech Co.,Ltd.

48A6D2 (base 16) GJsun Optical Science and Tech Co.,Ltd.
First floor National Information Industry Park D-08
Guilin Guangxi 541004
CN

68-CD-0F (hex) U Tek Company Limited
68CD0F (base 16) U Tek Company Limited
FL5, BLDG12, 3RD DISTRICT, TANGTOU INDUSTRIAL PARK
SHENZHEN GUANGDONG 518018
CN

A4-E3-91 (hex) DENY FONTAINE
A4E391 (base 16) DENY FONTAINE
ROUTE DE SAINT VALERY
SAINT BLIMONT 80960
FR

60-3F-C5 (hex) COX CO., LTD
603FC5 (base 16) COX CO., LTD
904HO, ACE TWIN TOWER 1-CHA
SEOUL 152-779
KR

AC-6F-D9 (hex) Valueplus Inc.
AC6FD9 (base 16) Valueplus Inc.
#803, Sicox Tower,
513-14,
Seongnam-si Gyeonggi-do 462-806
KR

DC-1E-A3 (hex) Accensus LLC
DC1EA3 (base 16) Accensus LLC
200 South Wacker Drive
Chicago IL 60606
US

A4-01-30 (hex) ABIsystems Co., LTD
A40130 (base 16) ABIsystems Co., LTD
308 ACE Techno Tower8 191-7 Guro-dong
Seoul
KR

90-A7-83 (hex) JSW PACIFIC CORPORATION
90A783 (base 16) JSW PACIFIC CORPORATION
3F-3, No.700, Chung-Zheng Rd, Zhonghe District
New Taipei City 235
TW

28-AF-0A (hex) Sirius XM Radio Inc
28AF0A (base 16) Sirius XM Radio Inc
1221 Avenue of the Americas
New York NY 10020
US

5C-D4-AB (hex) Zektor
5CD4AB (base 16) Zektor
12675 Danielson Ct. Ste 401
Poway CA 92064
US

64-E8-4F (hex) Serialway Communication Technology Co. Ltd
64E84F (base 16) Serialway Communication Technology Co. Ltd
Room 315, 706 Painting Room,
Beijing 100096
CN

2C-9E-FC (hex) CANON INC.
2C9EFC (base 16) CANON
INC.
3-30-2
Ohta-Ku Tokyo 146-8501
JP

08-FC-52 (hex) OpenXS BV
08FC52 (base 16) OpenXS BV
Koaibosk 3
Terwispel Friesland 8407ED
NL

F8-46-2D (hex) SYNTEC Incorporation
F8462D (base 16) SYNTEC Incorporation
3F, NO.105, Shing-shyue St.,
Hsinchu 300
TW

78-A5-DD (hex) Shenzhen Smarteye Digital Electronics Co., Ltd
78A5DD (base 16) Shenzhen Smarteye Digital Electronics Co., Ltd
#6 Northen Area
Shenzhen Guangdong 518129
CN

EC-E7-44 (hex) Omntec mfg. inc
ECE744 (base 16) Omntec mfg. inc
2420 Pond Road.
Ronkonkoma NY 11779
US

08-A1-2B (hex) ShenZhen EZL Technology Co., Ltd
08A12B (base 16) ShenZhen EZL Technology Co., Ltd
RM21B, Building 2, China Phoenix Building,
ShenZhen GuangDong 518026
CN

A0-0C-A1 (hex) SKTB SKiT
A00CA1 (base 16) SKTB SKiT
239 B. Sadovaya Str.
Saratov Saratov region 410005
RU

4C-32-D9 (hex) M Rutty Holdings Pty.
Ltd.
4C32D9 (base 16) M Rutty Holdings Pty. Ltd.
Unit 1, 4 Beaumont Road
Mount Kuring-Gai New South Wales 2080
AU

D4-E3-3F (hex) Nokia
D4E33F (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

28-D1-AF (hex) Nokia Corporation
28D1AF (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

F8-F7-D3 (hex) International Communications Corporation
F8F7D3 (base 16) International Communications Corporation
11801 Pierce St. 2nd FL
Riverside CA 92505
US

18-2B-05 (hex) 8D Technologies
182B05 (base 16) 8D Technologies
416, de Maisonneuve West
Montreal, Quebec H3A 1L2
CA

24-0B-B1 (hex) KOSTAL Industrie Elektrik GmbH
240BB1 (base 16) KOSTAL Industrie Elektrik GmbH
Gewerbering 20
Schalksmuehle North Rhine-Westphalia 58579

DE

20-EE-C6 (hex) Elefirst Science & Tech Co ., ltd
20EEC6 (base 16) Elefirst Science & Tech Co ., ltd
Floor 9, No 77
Zijinmingmen Building
Nanjing Jiangsu 210007
CN

E0-1E-07 (hex) Anite Telecoms US. Inc
E01E07 (base 16) Anite Telecoms US. Inc
106 Vista Centre Dr
Forest VA 24551
US

14-7D-C5 (hex) Murata Manufacturing Co., Ltd.
147DC5 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

00-B9-F6 (hex) Shenzhen Super Rich Electronics Co.,Ltd
00B9F6 (base 16) Shenzhen Super Rich Electronics Co.,Ltd
RM.102,Shibida Building,No.55,Zhenhua Road,Shenzhen Futian District,
Shenzhen Guangdong 518031
CN

FC-C2-3D (hex) Atmel Corporation
FCC23D (base 16) Atmel Corporation
1150 E Cheyenne Mtn Blvd
Colorado Springs CO 80906
US

88-E7-A6 (hex) iKnowledge Integration Corp.
88E7A6 (base 16) iKnowledge Integration Corp.
10F No.2, Sec. 3, Xinsheng S. Rd.,
Taipei 10660
TW

04-62-D7 (hex) ALSTOM HYDRO FRANCE
0462D7 (base 16) ALSTOM HYDRO FRANCE
82
Avenue Leon Blum
GRENOBLE 38041
FR

D4-50-7A (hex) CEIVA Logic, Inc
D4507A (base 16) CEIVA Logic, Inc

214 E Magnolia Blvd
Burbank CA 91502
US

CC-E7-DF (hex) American Magnetics, Inc.
CCE7DF (base 16) American Magnetics, Inc.
PO Box 2509
Oak Ridge TN 37831-2509
US

A4-46-FA (hex) AmTRAN Video Corporation
A446FA (base 16) AmTRAN Video Corporation
9 Goddard
Irvine CA 92618
US

64-43-46 (hex) GuangDong Quick Network Computer CO.,LTD
644346 (base 16) GuangDong Quick Network Computer CO.,LTD
12F,No.80 of Middle XianLie Road,YueXiu District
GuangZhou GuangDong 510070
CN

7C-6B-33 (hex) Tenyu Tech Co. Ltd.
7C6B33 (base 16) Tenyu Tech Co. Ltd.
1F., No.10, Ln. 36, Ganzhen 2nd St.
New Taipei City 251
TW

64-D9-89 (hex) Cisco Systems, Inc
64D989 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

64-5D-D7 (hex) Shenzhen Lifesense
Medical Electronics Co., Ltd.
645DD7 (base 16) Shenzhen Lifesense Medical Electronics Co., Ltd.
China Academy of Science and Technology Development, Room 19A
Shenzhen Guangdong 518057
CN

D4-02-4A (hex) Delphian Systems LLC
D4024A (base 16) Delphian Systems LLC
720 Dartmouth Lane
Buffalo Grove IL 60089
US

00-41-B4 (hex) Wuxi Zhongxing Optoelectronics Technology Co.,Ltd.

0041B4 (base 16) Wuxi Zhongxing Optoelectronics Technology Co.,Ltd.
Block 93-C, Sci. & Tech. Industry park,
Wuxi Jiangsu 214028
CN

F4-44-50 (hex) BND Co., Ltd.
F44450 (base 16) BND Co., Ltd.
573-13 Bokhyeon-dong, Buk-gu
Daegu 702-020
KR

EC-46-70 (hex) Meinberg Funkuhren GmbH & Co. KG
EC4670 (base 16) Meinberg Funkuhren GmbH & Co. KG
Lange Wand 9
Bad Pyrmont NDS 31812
DE

28-04-E0 (hex) FERMAX ELECTRONICA S.A.U.
2804E0 (base 16) FERMAX ELECTRONICA S.A.U.
Tres Cruces 133
Valencia 46017
ES

D0-5A-0F
(hex) I-BT DIGITAL CO.,LTD
D05A0F (base 16) I-BT DIGITAL CO.,LTD
17F.-8, No.866, Zhongzheng Rd., Zhonghe Dist
New Taipei 235
TW

EC-96-81 (hex) 2276427 Ontario Inc
EC9681 (base 16) 2276427 Ontario Inc
31-1275 Morningside Ave
Toronto ON M1B3W1
CA

5C-07-6F (hex) Thought Creator
5C076F (base 16) Thought Creator
Largo da Pirâmide, Nº 3, Sala D
Oeiras Lisboa 2795-156 Linda-a-Velha
PT

3C-0F-C1 (hex) KBC Networks
3C0FC1 (base 16) KBC Networks
25691 Atlantic Ocean Dr
Lake Forest CA 92630
US

10-F9-EE (hex) Nokia Corporation
10F9EE (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

74-2B-0F (hex) Infinidat Ltd.
742B0F (base 16) Infinidat Ltd.
11 Galgalei Haplada St.
Herzliya Pituach Center 46722
IL

C8-F9-81 (hex) Seneca s.r.l.
C8F981 (base 16) Seneca s.r.l.
Via Germania, 34
PADOVA 35127
IT

58-E6-36 (hex) EVRsafe
Technologies
58E636 (base 16) EVRsafe Technologies
59 North Terrace
Adelaide South Australia 5069
AU

24-49-7B (hex) Innovative Converged Devices Inc
24497B (base 16) Innovative Converged Devices Inc
424 8th Avenue North
Seattle WA 98109
US

98-E7-9A (hex) Foxconn(NanJing) Communication Co.,Ltd.
98E79A (base 16) Foxconn(NanJing) Communication Co.,Ltd.
A-2FMinfang Building No.189 Guangzhou Rd
Nanjing Jiang su 210029
CN

14-30-7A (hex) Avermetrics
14307A (base 16) Avermetrics
2973 Glendale Blvd.
Los Angeles CA 90039
US

A0-6C-EC (hex) RIM
A06CEC (base 16) RIM
Phillip Street
Waterloo Ontario N2L 3W8
CA

A0-E9-DB (hex) Ningbo FreeWings Technologies Co.,Ltd
A0E9DB (base 16) Ningbo FreeWings Technologies Co.,Ltd
Room 1107-1108, No 298 XueShi Road Yinzhou District Ningbo,
Ningbo Zhejiang 315000
CN

78-89-73 (hex) CMC
788973 (base 16) CMC
Industriepark
De Bruwaan 37B
Oudenaarde Oost-Vlaanderen 9700
BE

20-37-06 (hex) Cisco Systems, Inc
203706 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

90-B9-7D (hex) Johnson Outdoors Marine Electronics d/b/a Minnkota
90B97D (base 16) Johnson Outdoors Marine Electronics d/b/a Minnkota
1531 E Madison Ave
Mankato MN 56001
US

F4-B1-64 (hex) Lightning Telecommunications Technology Co. Ltd
F4B164 (base 16) Lightning Telecommunications Technology Co. Ltd
Room 1302, TianÂ¡Â¯an Hi-Tech Plaza Tower A, Futian District,
ShenZhen GuangDong 518040
CN

70-B0-35 (hex) Shenzhen Zowee Technology Co., Ltd
70B035 (base 16) Shenzhen Zowee Technology Co., Ltd
Block 5, Science and Technology Industrial
Shenzhen Guangdong 518055
CN

88-21-E3 (hex) Nebusens, S.L.
8821E3 (base 16) Nebusens, S.L.
C/ Adaja S/N, Edificio M2
Villamayor de la Armuña Salamanca 37185
ES

7C-F4-29
(hex) NUUO Inc.
7CF429 (base 16) NUUO Inc.
C block, 18 Sihyuan St. Jhongjheng District,

Taipei 100
TW

10-45-BE (hex) Norphonic AS
1045BE (base 16) Norphonic AS
Fabrikkgaten 10
Bergen 5059
NO

8C-82-A8 (hex) Insigma Technology Co.,Ltd
8C82A8 (base 16) Insigma Technology Co.,Ltd
No.226 Tianmushan Road,
Hangzhou Zhejiang 310000
CN

CC-B5-5A (hex) Fraunhofer ITWM
CCB55A (base 16) Fraunhofer ITWM
Fraunhoferplatz 1
Kaiserslautern Rhineland-Palatinae 67663
DE

AC-8A-CD (hex) ROGER D.Wensker, G.Wensker sp.j.
AC8ACD (base 16) ROGER D.Wensker, G.Wensker sp.j.
Gosciszewo 59
Sztum Pomorskie 82-400
PL

AC-47-23 (hex) Genelec
AC4723 (base 16) Genelec
Olvitie 5
Iisalmi 74100
FI

E8-BA-70 (hex) Cisco Systems, Inc
E8BA70 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

D4-A4-25 (hex) SMAX Technology Co., Ltd.
D4A425
(base 16) SMAX Technology Co., Ltd.
2F., No. 3, Wuquan 3rd, Wugu Dist.
New Taipei City 248
TW

8C-11-CB (hex) ABUS Security-Center GmbH & Co. KG
8C11CB (base 16) ABUS Security-Center GmbH & Co. KG

Linker Kreuthweg 5
Affing / Muehlhausen Bavaria 86444
DE

F8-03-32 (hex) Khomp
F80332 (base 16) Khomp
Rua Joe Collaço, 253
Florianópolis Santa Catarina 88037-010
BR

98-42-46 (hex) SOL INDUSTRY PTE., LTD
984246 (base 16) SOL INDUSTRY PTE., LTD
1 NORTH BRIDGE RD.,
179094
SG

34-29-EA (hex) MCD ELECTRONICS SP. Z O.O.
3429EA (base 16) MCD ELECTRONICS SP. Z O.O.
Lelewela 26
Zywiec slaskie 34-300
PL

28-A5-74 (hex) Miller Electric Mfg. Co.
28A574 (base 16) Miller Electric Mfg. Co.
N676 Communication Drive
Appleton WI 54914
US

60-19-0C (hex) RRAMAC
60190C (base 16) RRAMAC
15400 Medina Rd
Plymouth MN 55447
US

D0-5F-CE (hex) Hitachi Data
Systems
D05FCE (base 16) Hitachi Data Systems
750 Central Expressway
Santa Clara CA 95050
US

D0-9B-05 (hex) Emtronix
D09B05 (base 16) Emtronix
5# Gaopeng Dadao
Chengdu 610041
CN

FC-83-29 (hex) Trei technics

FC8329 (base 16) Trei technics
801 Northpoint Pkwy
West Palm Beach Florida 33407
US

90-B8-D0 (hex) Joyent, Inc.
90B8D0 (base 16) Joyent, Inc.
345 California Street,
San Francisco CA 94104
US

28-14-71 (hex) Lantis co., LTD.
281471 (base 16) Lantis co., LTD.
busan innobiz center 401
busan 616-829
KR

88-B1-68 (hex) Delta Control GmbH
88B168 (base 16) Delta Control GmbH
Rondorfer Hauptstraße 33
Cologne NRW 50997
DE

AC-86-74 (hex) Open Mesh, Inc.
AC8674 (base 16) Open Mesh, Inc.
111 SW 5th Ave Ste1150
Portland OR 97204
US

64-D2-41 (hex) Keith & Koep GmbH
64D241 (base 16) Keith & Koep GmbH
Uellendahler Str. 199
Wuppertal
NRW 42109
DE

18-B7-9E (hex) Invoxia
18B79E (base 16) Invoxia
87 rue du Gouverneur Général Eboué
Issy-Les-Moulineaux 92130
FR

CC-F8-41 (hex) Lumewave
CCF841 (base 16) Lumewave
4803 B Street
Sacramento CA 95819
US

14-EB-33 (hex) BSMediasoft Co., Ltd.
14EB33 (base 16) BSMediasoft Co., Ltd.
#603, Garden Bldg., 14-13, Yoido-Dong, Youngdeungpo-Gu
Seoul 150-871
KR

F4-B5-49 (hex) Xiamen Yeastar Information Technology Co., Ltd.
F4B549 (base 16) Xiamen Yeastar Information Technology Co., Ltd.
3/F, No. 46 Guanri Road, 2nd Software Park
Xiamen Fujian 361006
CN

68-5B-36 (hex) POWERTECH INDUSTRIAL CO., LTD.
685B36 (base 16) POWERTECH INDUSTRIAL CO., LTD.
10F, No. 407, Chung Shan Rd., Sec 2,
Chung Ho Taipei County 23558
TW

8C-44-35 (hex) Shanghai BroadMobi Communication Technology Co., Ltd.
8C4435 (base 16) Shanghai BroadMobi Communication Technology Co., Ltd.
Rm.
901, Bld. 9, No.1515 Gumei Rd, Xuhui District
Shanghai 200233
CN

F8-1D-93 (hex) Longdhua(Beijing) Controls Technology Co.,Ltd
F81D93 (base 16) Longdhua(Beijing) Controls Technology Co.,Ltd
Room 1203,Lixiang Building, No.111 Zhichun Road,Haidian District,
Beijing 10086
CN

7C-F0-BA (hex) Linkwell Telesystems Pvt Ltd
7CF0BA (base 16) Linkwell Telesystems Pvt Ltd
1-11-252/1/A, Gowra Klassic
Hyderabad Andhra Pradesh 500016
IN

D8-DF-0D (hex) beroNet GmbH
D8DF0D (base 16) beroNet GmbH
Friedrichstraße 231
Berlin 10969
DE

AC-F9-7E (hex) ELESYS INC.
ACF97E (base 16) ELESYS INC.
Suit 623, 812-1, Hyomun-dong
Ulsan Buk-gu 683-360
KR

38-D1-35 (hex) EasyIO Corporation Sdn. Bhd.
38D135 (base 16) EasyIO Corporation Sdn. Bhd.
No. 32-2 & 32-3, Jalan Puteri 2/4
Puchong Selangor 47100
MY

94-D9-3C (hex) ENELPS
94D93C (base 16) ENELPS
Bul Arsenija Carnojevica 117
Belgrade
11070
RS

B8-BE-BF (hex) Cisco Systems, Inc
B8BEBF (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

68-87-6B (hex) INQ Mobile Limited
68876B (base 16) INQ Mobile Limited
6 Hester Road
Battersea London SW11 4AN
GB

1C-AA-07 (hex) Cisco Systems, Inc
1CAA07 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

28-EE-2C (hex) Frontline Test Equipment
28EE2C (base 16) Frontline Test Equipment
PO Box 7507
Charlottesville Virginia 22906-7507
US

78-2E-EF (hex) Nokia Corporation
782EEF (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

64-B6-4A (hex) ViVOtech, Inc.
64B64A (base 16) ViVOtech, Inc.
451 El Camino Real
Santa Clara CA 95050

US

30-EB-25 (hex) INTEK DIGITAL
30EB25 (base 16) INTEK DIGITAL
801, 8th Fl., Anyang K-center building, 1591-9
Anyang 431-060
KR

44-E4-D9
(hex) Cisco Systems, Inc
44E4D9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

AC-CA-54 (hex) Telldus Technologies AB
ACCA54 (base 16) Telldus Technologies AB
Skiffervägen 102
Lund 224 78
SE

90-19-00 (hex) SCS SA
901900 (base 16) SCS SA
Via Pini, 32
Biasca 6710
CH

D4-5D-42 (hex) Nokia Corporation
D45D42 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

B0-38-29 (hex) Siliconware Precision Industries Co., Ltd.
B03829 (base 16) Siliconware Precision Industries Co., Ltd.
No. 123, Sec.3, Da Fong Rd, Tantzu,
Taichung 427
TW

7C-6C-39 (hex) PIXSYS SRL
7C6C39 (base 16) PIXSYS SRL
VIA DELLA CROCE ROSSA 42
PADOVA PD 35129
IT

BC-28-46 (hex) NextBIT Computing Pvt. Ltd.
BC2846 (base 16) NextBIT Computing Pvt. Ltd.
30/2, 2nd Floor, R.K. Plaza,

Bangalore Karnataka 560038
IN

BC-0F-2B (hex) FORTUNE
TECHGROUP CO.,LTD
BC0F2B (base 16) FORTUNE TECHGROUP CO.,LTD
7-8F,No.1198 North Qinzhou Road,
Shanghai 200233
CN

64-81-25 (hex) Alphatron Marine BV
648125 (base 16) Alphatron Marine BV
Schaardijk 23
Rotterdam Zuid-Holland 3063NH
NL

8C-F9-C9 (hex) MESADA Technology Co.,Ltd.
8CF9C9 (base 16) MESADA Technology Co.,Ltd.
TongFng Information Harbor,No.11 LangShan Road,HI-tech Park,Nanshan District,
Shenzhen GuangDong 518057
CN

04-26-05 (hex) Bosch Building Automation GmbH
042605 (base 16) Bosch Building Automation GmbH
Kapellenweg 42
Verl 33415
DE

C0-62-6B (hex) Cisco Systems, Inc
C0626B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

94-E2-26 (hex) D. ORtiz Consulting, LLC
94E226 (base 16) D. ORtiz Consulting, LLC
22601 N. 17th Avenue Suite 270
Phoenix AZ 85027
US

CC-F6-7A (hex) Ayecka Communication Systems LTD
CCF67A (base
16) Ayecka Communication Systems LTD
POB 3059
Hod Hasharon 45130
IL

D8-C9-9D (hex) EA DISPLAY LIMITED

D8C99D (base 16) EA DISPLAY LIMITED
22/F DELTA HOUSE 3 ON YIU ST
SHATIN NT
HK

10-83-D2 (hex) Microseven Systems, LLC
1083D2 (base 16) Microseven Systems, LLC
404 South Lemon Ave., #9
Walnut California 91789
US

20-40-05 (hex) feno GmbH
204005 (base 16) feno GmbH
Kolpingring 22
Oberhaching Bavaria 82041
DE

30-0B-9C (hex) Delta Mobile Systems, Inc.
300B9C (base 16) Delta Mobile Systems, Inc.
700 Remington Road
Schaumburg Illinois 60173
US

D4-6F-42 (hex) WAXESS USA Inc
D46F42 (base 16) WAXESS USA Inc
1401 Dove Street
Newport Beach CA 92660
US

04-C5-A4 (hex) Cisco Systems, Inc
04C5A4 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

18-B3-BA (hex) Netlogic AB
18B3BA (base 16) Netlogic AB
Datavägen 14A
ASKIM
Västra Götaland 43632
SE

D4-7B-75 (hex) HARTING Electronics GmbH
D47B75 (base 16) HARTING Electronics GmbH
Marienwerderstraße. 3
Espelkamp North Rhine Westphalia 32339
DE

8C-5F-DF (hex) Beijing Railway Signal Factory
8C5FDF (base 16) Beijing Railway Signal Factory
No.2 Sicun Xilu Langfa,Huangcun,
Beiijng 102613
CN

24-F0-FF (hex) GHT Co., Ltd.
24F0FF (base 16) GHT Co., Ltd.
#16 Nanyunyi Lu, Guangzhou Science City
Guangzhou Guangdong 510663
CN

9C-C0-D2 (hex) Conductix-Wampfler GmbH
9CC0D2 (base 16) Conductix-Wampfler GmbH
Rheinstrasse 27+33
Baden-Württemberg
DE

6C-AD-3F (hex) Hubbell Building Automation, Inc.
6CAD3F (base 16) Hubbell Building Automation, Inc.
9601 Dessau Rd
Austin Texas 78754
US

DC-D8-7F (hex) Shenzhen JoinCyber Telecom Equipment Ltd
DCD87F (base 16) Shenzhen JoinCyber Telecom Equipment Ltd
19CDE, Block A,JinFengBuilding,shangbu
South Road,Futian District,
Shenzhen Guangdong 518031
CN

B4-E0-CD (hex) Fusion-io, Inc
B4E0CD (base 16) Fusion-io, Inc
2880 Junction Avenue
San Jose CA 95134-1922
US

28-60-46 (hex) Lantech Communications Global, Inc.
286046 (base 16) Lantech Communications Global, Inc.
7F, No. 45, Lane 188, Ruiguang Rd., Neihu District
Taipei City 11491
TW

10-E2-D5 (hex) Qi Hardware Inc.
10E2D5 (base 16) Qi Hardware Inc.
555 4TH STREET #403
San Francisco CA 94107
US

EC-98-6C (hex) Lufft Mess- und Regeltechnik GmbH
EC986C (base 16) Lufft Mess- und Regeltechnik GmbH
Gutenbergstraße 20
Fellbach Baden-Württemberg 70736
DE

D0-93-F8 (hex) Stonestreet One LLC
D093F8 (base 16) Stonestreet One LLC
9960 Corporate Campus Drive
Louisville KY 40223
US

9C-64-5E (hex) Harman Consumer Group
9C645E (base 16) Harman Consumer Group
8500 Balboa Blvd
Northridge CA 91329
US

1C-33-4D
(hex) ITS Telecom
1C334D (base 16) ITS Telecom
29 Hametzuda st.
Azur Israel 580001
IL

34-68-4A (hex) Teraworks Co., Ltd.
34684A (base 16) Teraworks Co., Ltd.
Room No. 201 , 515-30 , Mok-Dong
Seoul 158-808
KR

CC-FC-6D (hex) RIZ TRANSMITTERS
CCFC6D (base 16) RIZ TRANSMITTERS
BOZIDAREVICEVA 13
ZAGREB 10000
HR

E0-3E-7D (hex) data-complex GmbH
E03E7D (base 16) data-complex GmbH
Düsterngraben 7
Halberstadt Sachsen-Anhalt 38820
DE

0C-C6-AC (hex) DAGS
0CC6AC (base 16) DAGS
Ace High end Tower 7th 1802
Seoul Geumcheon-gu 153-802

KR

4C-B9-C8 (hex) CONET CO., LTD.
4CB9C8 (base 16) CONET CO., LTD.
2-8,HIGASHIJIMA-CHO
ICHINOMIYA AICHI 491-0074
JP

78-59-3E (hex) RAFI GmbH & Co.KG
78593E (base 16) RAFI GmbH & Co.KG
Ravensburger Str. 128-134
Berg Baden Wurttemberg 88276
DE

50-97-72 (hex) Westinghouse Digital
509772 (base 16) Westinghouse
Digital
500 N. State College Blvd.
Orange CA 92868
US

30-39-55 (hex) Shenzhen Jinhengjia Electronic Co., Ltd.
303955 (base 16) Shenzhen Jinhengjia Electronic Co., Ltd.
4-6 Floors, Factory Building, Jijia Industrial Park,
Shenzhen Guangdong 518112
CN

FC-5B-24 (hex) Weibel Scientific A/S
FC5B24 (base 16) Weibel Scientific A/S
Solvang 30
Alleroed 3450
DK

50-3D-E5 (hex) Cisco Systems, Inc
503DE5 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

8C-B6-4F (hex) Cisco Systems, Inc
8CB64F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

EC-46-44 (hex) TTK SAS
EC4644 (base 16) TTK SAS
4, Rue du Chemin Vert

Clichy 92110
FR

54-04-96 (hex) Gigawave LTD
540496 (base 16) Gigawave LTD
GIGAWAVE TECHNICAL CENTRE
Colchester ESSEX CO62NS
GB

80-65-E9 (hex) BenQ Corporation
8065E9 (base 16) BenQ
Corporation
16 Jihu Road, Neihu
Taipei 114
TW

04-74-A1 (hex) Aligera Equipamentos Digitais Ltda
0474A1 (base 16) Aligera Equipamentos Digitais Ltda
Av. Para 330 / 302
Porto Alegre RS 90240-590
BR

5C-69-84 (hex) NUVICO
5C6984 (base 16) NUVICO
1 Enterprise Place Unit G
Hicksville NY 11801
US

B8-41-5F (hex) ASP AG
B8415F (base 16) ASP AG
Max- Planck-Str. 15 a-c
Erkrath NRW 40699
DE

2C-B6-9D (hex) RED Digital Cinema
2CB69D (base 16) RED Digital Cinema
20291 Valencia Circle
Lake Forest California 92630
US

20-FE-CD (hex) System In Frontier Inc.
20FECD (base 16) System In Frontier Inc.
4F Shinsuzuharu Bldg. 2-8-3 Akebonocyo
Tachikawa-shi Tokyo 190-0012
JP

F0-93-3A (hex) NxtConect
F0933A (base 16) NxtConect

Schillerstrasse 4
Bad Kissingen 97688
DE

70-DD-A1 (hex) Tellabs
70DDA1 (base 16) Tellabs
One Tellabs Center
Naperville
Illinois 60563
US

94-D0-19 (hex) Cydle Corp.
94D019 (base 16) Cydle Corp.
1203, KofomoTower, 16-3 , Sunae-Dong, Bundang-Gu
Seongnam-City Gyeonggi-Do 463825
KR

8C-27-8A (hex) Vocollect Inc
8C278A (base 16) Vocollect Inc
703 Rodi Road
Pittsburgh Pa 15235
US

CC-0C-DA (hex) Miljovakt AS
CC0CDA (base 16) Miljovakt AS
Gannestadveien 2
Borre Vestfold 3184
NO

A8-6A-6F (hex) RIM
A86A6F (base 16) RIM
Phillip Street
Waterloo Ontario N2L 3W8
CA

50-0E-6D (hex) TrafficCast International
500E6D (base 16) TrafficCast International
2801 Coho Street
Madison WI 53713
US

EC-3B-F0 (hex) NovelSat
EC3BF0 (base 16) NovelSat
Hataasia 21
Raanana 2396
IL

4C-ED-DE (hex) ASKEY COMPUTER CORP

4CEDDE (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

E8-E0-8F (hex) GRAVOTECH MARKING SAS
E8E08F (base
16) GRAVOTECH MARKING SAS
56 AVENUE JEAN JAURES
LA CHAPELLE SAINT LUC AUBE 10600
FR

60-C9-80 (hex) Trymus
60C980 (base 16) Trymus
Bucheon Techno Park 303-902
Bucheon-si 421-741 Gyunggi-do
KR

A0-36-FA (hex) Ettus Research LLC
A036FA (base 16) Ettus Research LLC
1043 N Shoreline Blvd
Mountain View CA 94043
US

EC-83-6C (hex) RM Tech Co., Ltd.
EC836C (base 16) RM Tech Co., Ltd.
C-801, Bupyeong Woolim Lions Valley
Incheon City 403-911
KR

E4-1C-4B (hex) V2 TECHNOLOGY, INC.
E41C4B (base 16) V2 TECHNOLOGY, INC.
4450 Enterprise Street
Fremont California 94538
US

5C-F3-FC (hex) IBM Corp
5CF3FC (base 16) IBM Corp
3039 E Cornwallis Road
Research Triangle Park NC 27709-2195
US

58-2F-42 (hex) Universal Electric Corporation
582F42 (base 16) Universal Electric Corporation
168 Georgetown Road
Canonsburg PA 15317
US

20-4A-AA (hex) Hanscan Spain S.A.
204AAA
(base 16) Hanscan Spain S.A.
Avda. de la Vega, 1
Alcobendas Madrid 28108
ES

40-1D-59 (hex) Biometric Associates, LP
401D59 (base 16) Biometric Associates, LP
9475 Deereco Rd.
Timonium MD 21093
US

B8-FF-6F (hex) Shanghai Typrotech Technology Co.Ltd
B8FF6F (base 16) Shanghai Typrotech Technology Co.Ltd
Design Building 903, NO.63,
Shanghai 200092
CN

68-12-2D (hex) Special Instrument Development Co., Ltd.
68122D (base 16) Special Instrument Development Co., Ltd.
6F-1, No. 123, Lane 235
Hsin Tien Taipei Hsien 231
TW

94-F7-20 (hex) Tianjin Deviser Electronics Instrument Co., Ltd
94F720 (base 16) Tianjin Deviser Electronics Instrument Co., Ltd
No.40 Yibin Road,Nankai district,
Tianjin 300113
CN

DC-9C-52 (hex) Sapphire Technology Limited.
DC9C52 (base 16) Sapphire Technology Limited.
Unit 1909-1919, 19/F., Tower 2, Grand Central Plaza,

HK

48-91-F6
(hex) Shenzhen Reach software technology CO.,LTD
4891F6 (base 16) Shenzhen Reach software technology CO.,LTD
6/F,Block B, Kingdee Software park,#2,Keji 12th South Road,Hi-tech Industrial Park,Nanshan District
Shenzhen Guangdong 518057
CN

64-9B-24 (hex) V Technology Co., Ltd.
649B24 (base 16) V Technology Co., Ltd.
YBP East Tower 5F,
Yokohama city Kanagawa 240-0005

JP

84-6E-B1 (hex) Park Assist LLC
846EB1 (base 16) Park Assist LLC
111 W28th Street
New York NY 10001
US

A8-9B-10 (hex) inMotion Ltd.
A89B10 (base 16) inMotion Ltd.
Unit 2709 Exchange Tower
KLN
HK

B4-14-89 (hex) Cisco Systems, Inc
B41489 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A0-B5-DA (hex) HongKong THTF Co., Ltd
A0B5DA (base 16) HongKong THTF Co., Ltd
2F,Sector C of Tsinghua University Academy,
Shenzhen Guangdong 518057
CN

88-86-A0 (hex) Simton Technologies,
Ltd.
8886A0 (base 16) Simton Technologies, Ltd.
2 Taishan Road, Building C, 3rd Floor
Wuxi, Province of Jiangsu, 214028
CN

A4-50-55 (hex) BUSWARE.DE
A45055 (base 16) BUSWARE.DE
Lindenstrasse 18
Scharbeutz 23684
DE

AC-AB-8D (hex) Lyngso Marine A/S
ACAB8D (base 16) Lyngso Marine A/S
Lyngso Alle 2
Horsholm DK-2970
DK

60-83-B2 (hex) GkWare e.K.
6083B2 (base 16) GkWare e.K.
Hatzper Str. 172B

Essen NRW 45149
DE

80-D0-19 (hex) Embed, Inc
80D019 (base 16) Embed, Inc
410 Great Road
Littleton MA 01460
US

68-EB-C5 (hex) Angstrem Telecom
68EBC5 (base 16) Angstrem Telecom
Yuzhnaya promzona, passage 4806, 4, build 3
Zelenograd Moscow 124460
RU

E8-99-5A (hex) PiiGAB, Processinformation i Goteborg AB
E8995A (base 16) PiiGAB, Processinformation i Goteborg AB
Anders Carlssons gata 1
Gothenburg 417 55
SE

1C-BD-0E (hex) Amplified
Engineering Pty Ltd
1CBD0E (base 16) Amplified Engineering Pty Ltd
5 Turner Avenue
Bentley WA 6102
AU

A0-F2-17 (hex) GE Medical System(China) Co., Ltd.
A0F217 (base 16) GE Medical System(China) Co., Ltd.
No.19, ChangJiang Road
Wuxi Jiangsu 214028
CN

F0-A7-64 (hex) GST Co., Ltd.
F0A764 (base 16) GST Co., Ltd.
#988-6, Gosaek-Dong, Gwonseon-Gu
Suwon-Si Gyeonggi-Do 441-813
KR

1C-06-56 (hex) IDY Corporation
1C0656 (base 16) IDY Corporation
IDEMITSU Korakuen Bld 9F
Bunkyo-ku Tokyo 112-0002
JP

6C-50-4D (hex) Cisco Systems, Inc
6C504D (base 16) Cisco Systems, Inc

80 West Tasman Drive
San Jose CA 94568
US

B8-D0-6F (hex) GUANGZHOU HKUST FOK YING TUNG RESEARCH INSTITUTE
B8D06F (base 16) GUANGZHOU HKUST FOK YING TUNG RESEARCH INSTITUTE
Rm 403, North of Software Building,Nansha IT Park,
Guangzhou Guangdong Privince 511458
CN

EC-14-F6 (hex) BioControl AS
EC14F6
(base 16) BioControl AS
Grimstad Gard
Rakkestad N-1890
NO

70-76-F0 (hex) LevelOne Communications (India) Private Limited
7076F0 (base 16) LevelOne Communications (India) Private Limited
2F, Lane 1, 45 Bharat Nagar
New Delhi DELHI 110025
IN

08-8D-C8 (hex) Ryowa Electronics Co.,Ltd
088DC8 (base 16) Ryowa Electronics Co.,Ltd
1483-1 Takahara-machi
Yamagata-shi Yamagata-pref. 9900002
JP

5C-17-D3 (hex) LGE
5C17D3 (base 16) LGE
60-39 , Kasan -dong , Gumcheon-gu.
Seoul 153-801
KR

8C-E7-B3 (hex) Sonardyne International Ltd
8CE7B3 (base 16) Sonardyne International Ltd
Blackbushe Business Park
Yateley Hampshire GU46 6GD
GB

1C-DF-0F (hex) Cisco Systems, Inc
1CDF0F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

68-BD-AB (hex) Cisco Systems, Inc

68BDAB (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

9C-AD-EF
(hex) Obihai Technology, Inc.
9CADEF (base 16) Obihai Technology, Inc.
2105 S. Bascom Ave #285
Campbell CA 95008
US

D0-89-99 (hex) APCON, Inc.
D08999 (base 16) APCON, Inc.
9255 SW Pioneer Court
Wilsonville OR 97070
US

C8-84-47 (hex) Beautiful Enterprise Co., Ltd
C88447 (base 16) Beautiful Enterprise Co., Ltd
26th Floor, Beautiful Group Tower

HK

A4-A8-0F (hex) Shenzhen Coship Electronics Co., Ltd.
A4A80F (base 16) Shenzhen Coship Electronics Co., Ltd.
Rainbow Bldg., North, Hi-Tech Industrial Park, Nanshan District,
Shenzhen Guangdong 518057
CN

F8-B5-99 (hex) Guangzhou CHNAVS Digital Technology Co.,Ltd
F8B599 (base 16) Guangzhou CHNAVS Digital Technology Co.,Ltd
Buliding C, industy base of digital home application and demonstration ,zhongyi road Guangzhou higher education mega center
Guangzhou Guangdong 510006
CN

B8-92-1D (hex) BG T&A
B8921D
(base 16) BG T&A
4F, L&C Tower
Gunpo-si Gyeonggi-do 435-845
KR

C8-8B-47 (hex) Nolangroup S.P.A con Socio Unico
C88B47 (base 16) Nolangroup S.P.A con Socio Unico
via Terzi di S.Agata 2
Brembate di Sopra Bergamo 24030

IT

C4-CD-45 (hex) Beijing Boomsense Technology CO.,LTD.
C4CD45 (base 16) Beijing Boomsense Technology CO.,LTD.
803 Building 4 INTERWEST Business Center,No.9 South Shouti Road ,HaidianDistrict,
Beijing 100048
CN

54-FD-BF (hex) Scheidt & Bachmann GmbH
54FDBF (base 16) Scheidt & Bachmann GmbH
Breite Strasse 132
Moenchengladbach NRW 41238
DE

D0-BB-80 (hex) SHL Telemedicine International Ltd.
D0BB80 (base 16) SHL Telemedicine International Ltd.
90 Yigal Alon
Tel Aviv 67891
IL

E0-61-B2 (hex) HANGZHOU ZENOINTEL TECHNOLOGY CO., LTD
E061B2 (base 16) HANGZHOU ZENOINTEL TECHNOLOGY CO., LTD
Room 806, F#, Cambridge Combridge, Shenhua Road,District Xihu,
Hangzhou
Zhejiang 310030
CN

94-11-DA (hex) ITF Fröschl GmbH
9411DA (base 16) ITF Fröschl GmbH
Hauserbachstraße 9
Walderbach Bavaria 93194
DE

80-39-E5 (hex) PATLITE CORPORATION
8039E5 (base 16) PATLITE CORPORATION
19-2
SANDA HYOUGOKEN 669-1339
JP

DC-7B-94 (hex) Cisco Systems, Inc
DC7B94 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

5C-CA-32 (hex) Theben AG
5CCA32 (base 16) Theben AG
Hohenbergstraße 32

Haigerloch Baden-Württemberg 72401
DE

C0-2B-FC (hex) iNES. applied informatics GmbH
C02BFC (base 16) iNES. applied informatics GmbH
Ohmstrasse 9
Ludwigsburg 71642
DE

94-C7-AF (hex) Raylios Technology
94C7AF (base 16) Raylios Technology
12F., No.16, Jian 8th Rd
Zhonghe City Taipei County 23511
TW

D8-1C-14 (hex) Compacta International, Ltd.
D81C14 (base 16) Compacta International, Ltd.
31342 Via Las Palmas
San Juan
Capistrano CA 92675
US

00-8C-10 (hex) Black Box Corp.
008C10 (base 16) Black Box Corp.
1000 Park Drive
Lawrence PA 15055
US

B0-B8-D5 (hex) Nanjing Nengrui Auto Equipment CO.,Ltd
B0B8D5 (base 16) Nanjing Nengrui Auto Equipment CO.,Ltd
No.108 Ganjiabian East Yaohua Town
Nanjing Jiangsu 210046
CN

94-E7-11 (hex) Xirka Dama Persada PT
94E711 (base 16) Xirka Dama Persada PT
Gdg CM
Jakarta 13150
ID

90-90-3C (hex) TRISON TECHNOLOGY CORPORATION
90903C (base 16) TRISON TECHNOLOGY CORPORATION
No.3, Kung-Yeh 12th Rd., Ping-Jen Industrial Park,
Ping-Jen City, TaoYuan County 32459
TW

80-C6-CA (hex) Endian s.r.l.
80C6CA (base 16) Endian s.r.l.

Pillhof 47
Frangarto Bolzano 39010
IT

14-FE-AF (hex) SAGITTAR LIMITED
14FEAF (base 16) SAGITTAR LIMITED
2-102, BLD34, BAIWANGMOLIYUAN
BEIJING 100094
CN

B0-81-D8 (hex) I-sys Corp
B081D8 (base 16) I-sys Corp
2457
Aviation Ave
N. Charleston South Carolina 29406
US

6C-9B-02 (hex) Nokia Corporation
6C9B02 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

64-1E-81 (hex) Dowslake Microsystems
641E81 (base 16) Dowslake Microsystems
21 High Street, Suite 306
North Andover MA 01845
US

EC-54-2E (hex) Shanghai XiMei Electronic Technology Co. Ltd
EC542E (base 16) Shanghai XiMei Electronic Technology Co. Ltd
Room 503, No.2623, GongHeXin Road
Shanghai 200072
CN

F0-E5-C3 (hex) Drägerwerk AG & Co. KG aA
F0E5C3 (base 16) Drägerwerk AG & Co. KG aA
Moislinger Allee 53-55
Luebeck Germany 23452
DE

E0-5B-70 (hex) Innovid, Co., Ltd.
E05B70 (base 16) Innovid, Co., Ltd.
5th Floor, Boga Building, 821-3, Bangbaedong, Seochogu
Seoul 137-060
KR

04-36-04 (hex) Gyeyoung I&T

043604 (base 16) Gyeyoung I&T
6F, Woosung Bldg. 1000-1, Daechi-dong
Seoul 135-502
KR

A4-B2-A7
(hex) Adaxys Solutions AG
A4B2A7 (base 16) Adaxys Solutions AG
Eichtalstrasse 55
Hombrechtikon CH 8634
CH

D0-D0-FD (hex) Cisco Systems, Inc
D0D0FD (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

FC-D4-F6 (hex) Messana Air.Ray Conditioning s.r.l.
FCD4F6 (base 16) Messana Air.Ray Conditioning s.r.l.
Via Venezia 18
Oderzo TV 31046
IT

D4-66-A8 (hex) Riedo Networks Ltd
D466A8 (base 16) Riedo Networks Ltd
Route de la Fonderie 6
Fribourg 1700
CH

F4-1F-0B (hex) YAMABISHI Corporation
F41F0B (base 16) YAMABISHI Corporation
3-14-12 Kamigou
Ebina-city KANAGAWA 243-0434
JP

A0-82-C7 (hex) P.T.I Co.,LTD
A082C7 (base 16) P.T.I Co.,LTD
1-5-1,Tsurumidan
Koriyama-shi Fukushima 963-8861
JP

D8-29-86 (hex) Best Wish Technology LTD
D82986 (base 16) Best Wish Technology LTD
7E,Hai Yi Business Building,No.310,Tianshan RD.,
Shanghai
200336
CN

44-61-32 (hex) ecobee inc
446132 (base 16) ecobee inc
333 Adelaide St W 6th Floor
Toronto Ontario M5V1R5
CA

74-15-E2 (hex) Tri-Sen Systems Corporation
7415E2 (base 16) Tri-Sen Systems Corporation
17625 El Camino Real Suite 200
Houston TX 77058
US

D4-8F-AA (hex) Sogecam Industrial, S.A.
D48FAA (base 16) Sogecam Industrial, S.A.
Rosalind Franklin, 22-24
Malaga 29590
ES

78-A7-14 (hex) Amphenol
78A714 (base 16) Amphenol
20 Valley St.
Endicott New York 13760
US

F4-50-EB (hex) Telechips Inc
F450EB (base 16) Telechips Inc
KORAD Bldg,1000-12, Daechi-Dong, Gangnam-Gu,
Seoul 135-280
KR

E8-7A-F3 (hex) S5 Tech S.r.l.
E87AF3 (base 16) S5 Tech S.r.l.
Via Tortona 72
Milano 20144
IT

14-1B-BD (hex) Volex Inc.
141BBD (base 16) Volex Inc.
915 Tate Blvd. SE
Hickory NC 28602
US

F8-93-F3 (hex) VOLANS
F893F3 (base
16) VOLANS
3F IJU BD 770-13 YEOKSAM-DONG
SEOUL 135-928

KR

78-66-AE (hex) ZTEC Instruments, Inc.
7866AE (base 16) ZTEC Instruments, Inc.
7715 Tiburon St. NE
Albuquerque NM 87109
US

4C-02-2E (hex) CMR KOREA CO., LTD
4C022E (base 16) CMR KOREA CO., LTD
6F, J-Tower, 24-5 Bangi-dong, Songpa-Gu
Seoul 138-050
KR

34-AA-EE (hex) Mikrovisatos Servisas UAB
34AAEE (base 16) Mikrovisatos Servisas UAB
Savanoriu pr. 125
Kaunas LT44146
LT

90-E0-F0 (hex) IEEE 1722a Working Group
90E0F0 (base 16) IEEE 1722a Working Group
8760 Sandy Parkway
Sandy Utah 84070
US

F8-AC-6D (hex) Deltenna Ltd
F8AC6D (base 16) Deltenna Ltd
First Floor Unit 2
Chippenham Wiltshire SN15 1BN
GB

18-B2-09 (hex) Torrey Pines Logic, Inc
18B209 (base 16) Torrey Pines Logic, Inc
12651 High Bluff Drive, #100
San Diego CA 92130
US

98-8E-DD (hex) TE Connectivity Limerick
988EDD
(base 16) TE Connectivity Limerick
International Science Centre, Block 1
Castletroy Co. Limerick
IE

98-FC-11 (hex) Cisco-Linksys, LLC
98FC11 (base 16) Cisco-Linksys, LLC
121 Theory Drive

Irvine California 92612
US

34-E0-D7 (hex) DONGGUAN QISHENG ELECTRONICS INDUSTRIAL CO., LTD
34E0D7 (base 16) DONGGUAN QISHENG ELECTRONICS INDUSTRIAL CO., LTD
XINJI INDUSTRIAL ZONE, MACHONG TOWN
DONGGUAN GUANGDONG 523123
CN

D8-46-06 (hex) Silicon Valley Global Marketing
D84606 (base 16) Silicon Valley Global Marketing
830 Stewart Dr. #201
Sunnyvale Ca 94085
US

40-52-0D (hex) Pico Technology
40520D (base 16) Pico Technology
James House, Marlborough Road
St Neots Cambridgeshire PE19 8YP
GB

80-7D-1B (hex) Neosystem Co. Ltd.
807D1B (base 16) Neosystem Co. Ltd.
4-19-12 Takao
Dazaifu-shi Fukuoka 818-0122
JP

48-FC-B8 (hex) Woodstream Corporation
48FCB8 (base 16) Woodstream
Corporation
69 N. Locust Street
Lititz PA 17543
US

C8-48-F5 (hex) MEDISON Xray Co., Ltd
C848F5 (base 16) MEDISON Xray Co., Ltd
3F Burim B/D 999 Daechi-dong
Seoul 135-280
KR

18-80-CE (hex) Barberry Solutions Ltd
1880CE (base 16) Barberry Solutions Ltd
2/13 Naviti Place
Auckland 0630
NZ

D8-4B-2A (hex) Cognitas Technologies, Inc.
D84B2A (base 16) Cognitas Technologies, Inc.

6406 Laurel Bush Ln.
Sugar Land Texas 77479
US

68-4B-88 (hex) Galtronics Telemetry Inc.
684B88 (base 16) Galtronics Telemetry Inc.
31 Lupi Ct
Palm Coast Florida 32137
US

A4-AE-9A (hex) Maestro Wireless Solutions ltd.
A4AE9A (base 16) Maestro Wireless Solutions ltd.
3603-9, 36/F
Sai Ying Pun
HK

CC-5C-75 (hex) Weightech Com. Imp. Exp. Equip. Pesagem Ltda
CC5C75 (base 16) Weightech Com. Imp. Exp. Equip. Pesagem Ltda
Rodovia Virgílio Várzea, 3110 - Sala 01
Florianópolis
SC 88032-001
BR

74-B9-EB (hex) JinQianMao Technology Co.,Ltd.
74B9EB (base 16) JinQianMao Technology Co.,Ltd.
Room 506 YongHeng Building NO.58 JiangBing Raod
FuZhou FuJian 350005
CN

D4-52-97 (hex) nSTREAMS Technologies, Inc.
D45297 (base 16) nSTREAMS Technologies, Inc.
10F-2, No. 302, Ruiguang Rd., Neihu District,
Taipei City 114
TW

A4-56-1B (hex) MCOT Corporation
A4561B (base 16) MCOT Corporation
Yogohigashi 1-5-12
Matsuyama city Ehime prefecture 790-0044
JP

80-C6-3F (hex) Remec Broadband Wireless , LLC
80C63F (base 16) Remec Broadband Wireless , LLC
17034 Camino San Bernardo
San Diego CA 92127
US

40-D4-0E (hex) Biodata Ltd

40D40E (base 16) Biodata Ltd
10 Stocks Street
Manchester M8 8QG
GB

0C-82-6A (hex) Wuhan Huagong Genuine Optics Technology Co., Ltd
0C826A (base 16) Wuhan Huagong Genuine Optics Technology Co., Ltd
Science & Technology Region of HUST,
Donghu High-Tech Zone
Wuhan Hubei 430223
CN

7C-05-1E (hex) RAFAEL LTD.
7C051E (base 16) RAFAEL LTD.
GUSH SEGEV POB 2250
HAIFA 31008
IL

E0-27-1A (hex) TTC Next-generation Home Network System WG
E0271A (base 16) TTC Next-generation Home Network System WG
1-1-12 Shiba Kouen
Minato-ku Tokyo 105-0011
JP

00-97-FF (hex) Heimann Sensor GmbH
0097FF (base 16) Heimann Sensor GmbH
Maria-Reiche-Str. 1
Dresden Sachsen 01109
DE

E4-AB-46 (hex) UAB Selteka
E4AB46 (base 16) UAB Selteka
DraugystÃ«s g. 19
Kaunas LT-51230
LT

94-5B-7E (hex) TRILOBIT LTDA.
945B7E (base 16) TRILOBIT LTDA.
R. ALVARENGA 1377
São Paulo 05509002
BR

04-E5-48 (hex) Cohda Wireless Pty Ltd
04E548 (base 16) Cohda Wireless Pty Ltd
Suite 5 / 83 Fullarton Road
Kent Town South Australia 5067
AU

28-93-FE (hex) Cisco Systems, Inc
2893FE (base 16) Cisco Systems, Inc
80 West Tasman
Drive
San Jose CA 94568
US

F4-C7-95 (hex) WEY Technology AG
F4C795 (base 16) WEY Technology AG
Dorfstrasse 57
Unterengstringen Zurich 8103
CH

78-11-85 (hex) NBS Payment Solutions Inc.
781185 (base 16) NBS Payment Solutions Inc.
703 Evans Ave
Toronto Ontario M9C 5E9
CA

78-A2-A0 (hex) Nintendo Co., Ltd.
78A2A0 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

24-B6-B8 (hex) FRIEM SPA
24B6B8 (base 16) FRIEM SPA
Via Edison 1
Segrate Milano 20090
IT

D4-00-0D (hex) Phoenix Broadband Technologies, LLC.
D4000D (base 16) Phoenix Broadband Technologies, LLC.
589 Bethlehem Pike
Montgomeryville PA 18936
US

AC-51-35 (hex) MPI TECH
AC5135 (base 16) MPI TECH
Vadstrupvej 35
Bagsværd DK-2880
DK

44-D6-3D (hex) Talari Networks
44D63D (base 16) Talari Networks
3200 Glen Royal Rd.
Raleigh NC

27617
US

08-F6-F8 (hex) GET Engineering
08F6F8 (base 16) GET Engineering
9350 Bond Ave
El Cajon CA 92021
US

70-71-BC (hex) PEGATRON CORPORATION
7071BC (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

78-84-EE (hex) INDRA ESPACIO S.A.
7884EE (base 16) INDRA ESPACIO S.A.
C/ ROC BORONAT, 133
BARCELONA 08018
ES

10-09-0C (hex) JANOME Corporation
10090C (base 16) JANOME Corporation
1463 Hazama-Machi
Hachioji-Shi Tokyo 193-0941
JP

E0-1C-EE (hex) Bravo Tech, Inc.
E01CEE (base 16) Bravo Tech, Inc.
6185 Phyllis Dr. Unit D.
Cypress CA 90630
US

A4-C2-AB (hex) Hangzhou LEAD-IT Information & Technology Co.,Ltd
A4C2AB (base 16) Hangzhou LEAD-IT Information & Technology Co.,Ltd
F2 Builder B,Xidomen Road NO.22
Hangzhou Zhejiang 310012
CN

48-AA-5D (hex) Store Electronic Systems
48AA5D (base 16) Store Electronic
Systems
39 rue de montigny
Argenteuil 95100
FR

0C-C9-C6 (hex) Samwin Hong Kong Limited
0CC9C6 (base 16) Samwin Hong Kong Limited

Rm 901-902, 9/F, Futura Plaza,
Hong Kong
CN

10-62-C9 (hex) Adatis GmbH & Co. KG
1062C9 (base 16) Adatis GmbH & Co. KG
Forchheimer Straße 6
Nürnberg Bavaria 90425
DE

D8-AE-90 (hex) Itibia Technologies
D8AE90 (base 16) Itibia Technologies
5 Clausen Ct
West Windsor NJ 08550
US

E8-5E-53 (hex) Infratec Datentechnik GmbH
E85E53 (base 16) Infratec Datentechnik GmbH
Gevener Weg 38
Neuenrade NRW 58579
DE

88-BA-7F (hex) Qfiednet Co., Ltd.
88BA7F (base 16) Qfiednet Co., Ltd.
#204 KJ Bldg. DaeChi-Dong
Seoul 135-847
KR

64-DB-18 (hex) OpenPattern
64DB18 (base 16) OpenPattern
109/111 rue des Côtes
Maisons Laffitte Yvelines 78600
FR

5C-35-DA (hex) There Corporation Oy
5C35DA (base 16) There Corporation Oy
Elimäenkatu
5
Helsinki 00510
FI

3C-4C-69 (hex) Infinity System S.L.
3C4C69 (base 16) Infinity System S.L.
Crtra. N-II, Km 48,5 Pol. Ind. Cabanillas del Campo, Parc. 12B
Guadalajara 19171
US

78-30-E1 (hex) UltraClenz, LLC

7830E1 (base 16) UltraClenz, LLC
1440 W Indiantown Road
Jupiter FL 33458
US

B0-91-34 (hex) Taleo
B09134 (base 16) Taleo
4140 Dublin Blvd
Dublin California 94568
US

D0-58-75 (hex) Active Control Technology Inc.
D05875 (base 16) Active Control Technology Inc.
1800 Appleby Line
Burlington Ontario L7L 6A1
CA

D8-1B-FE (hex) TWINLINX CORPORATION
D81BFE (base 16) TWINLINX CORPORATION
ESPACE DESCARTES BAT B
AIX EN PROVENCE PROVENCE 13857
FR

04-2F-56 (hex) ATOCS (Shenzhen) LTD
042F56 (base 16) ATOCS (Shenzhen) LTD
4/F., Building 10, Tongfuyu Industry Zone, Xili Town,
Shenzhen
CN

90-A2-DA (hex) GHEO SA
90A2DA (base 16) GHEO
SA
Via Soldini, 22
Chiasso CH-6830
CH

98-89-ED (hex) Anadem Information Inc.
9889ED (base 16) Anadem Information Inc.
2nd F, 79 Zhouzi Street, Neihu District,
Taipei 114
TW

FC-44-63 (hex) Universal Audio, Inc
FC4463 (base 16) Universal Audio, Inc
4585 Scotts Valley Dr.
Scotts Valley CA 95066
US

C8-EF-2E (hex) Beijing Gefei Tech. Co., Ltd
C8EF2E (base 16) Beijing Gefei Tech. Co., Ltd
A-603 Power Creative Plaza, NO.1 Shangdi E. Rd.,Haidian District,
Beijing 100085
CN

10-2D-96 (hex) Looxcie Inc.
102D96 (base 16) Looxcie Inc.
1196 Borregas Ave.
Sunnyvale CA 94089
US

B8-65-3B (hex) Bolymin, Inc.
B8653B (base 16) Bolymin, Inc.
13F-1, No.20, Ta-Long Rd.,
Taichung 40310
TW

38-E8-DF (hex) b gmbh medien + datenbanken
38E8DF (base 16) b gmbh medien + datenbanken
Kurfuerstenstrasse 22
Ludwigsburg BW 71636
DE

1C-12-9D (hex) IEEE PES
PSRC/SUB
1C129D (base 16) IEEE PES PSRC/SUB
Working Group H7/Sub C7 (IEEE PC37.238)
Piscataway NJ 08854
US

E0-CA-4D (hex) Shenzhen Unistar Communication Co.,LTD
E0CA4D (base 16) Shenzhen Unistar Communication Co.,LTD
9/F,Qinghai Building,7043, Berhuan Road, Futian District,
Shenzhen Guangdong 518034
CN

A0-69-86 (hex) Wellav Technologies Ltd
A06986 (base 16) Wellav Technologies Ltd
15F Desay Building
Huizhou Guangdong 516003
CN

EC-8E-AD (hex) DLX
EC8EAD (base 16) DLX
#401, Seoil B/D,1359-45 Seocho2-dong
Seoul 137-863
KR

F0-B6-EB (hex) Poslab Technology Co., Ltd.
F0B6EB (base 16) Poslab Technology Co., Ltd.
5F-1, No.490 Bannan Rd.
Jhonghe City 235
TW

1C-8F-8A (hex) Phase Motion Control SpA
1C8F8A (base 16) Phase Motion Control SpA
via Adamoli, 461
Genova IT16141
IT

FC-CC-E4 (hex) Ascon Ltd.
FCCCE4 (base 16) Ascon Ltd.
1-15-27
Minato-machi
Fukuyama –shi Hiroshima-ken 721-0964
JP

60-B3-C4 (hex) Elber Srl
60B3C4 (base 16) Elber Srl
via Pontevecchio 42 W
Carasco Ge 16042
IT

04-C8-80 (hex) Samtec Inc
04C880 (base 16) Samtec Inc
520 Park East Blvd
New Albany IN 47150
US

BC-D5-B6 (hex) d2d technologies
BCD5B6 (base 16) d2d technologies
10611 roundwood glen ct
Jacksonville Fl 32256
US

FC-68-3E (hex) Directed Perception, Inc
FC683E (base 16) Directed Perception, Inc
890C Cowan Road
Burlingame California 94010
US

28-E7-94 (hex) Microtime Computer Inc.
28E794 (base 16) Microtime Computer Inc.
4F, No. 222, Sec. 4, Cheng-Teh Rd.,
Taipei 11167

TW

34-C6-9A (hex) Enecsys Ltd
34C69A (base 16) Enecsys Ltd
Harston Mill
Cambridge Cambridgeshire CB22 7GG
GB

F8-8D-EF (hex) Tenebraex
F88DEF (base 16) Tenebraex
27 Drydock Avenue
Boston MA 02210
US

04-22-34 (hex) Wireless
Standard Extensions
042234 (base 16) Wireless Standard Extensions
1322 Crossman avenue
Sunnyvale California 94089
US

94-59-2D (hex) EKE Building Technology Systems Ltd
94592D (base 16) EKE Building Technology Systems Ltd
Piispanportti 7
Espoo - 02240
US

CC-69-B0 (hex) Global Traffic Technologies, LLC
CC69B0 (base 16) Global Traffic Technologies, LLC
7800 Third Street North
St. Paul Minnesota 55128
US

80-C8-62 (hex) Openpeak, Inc
80C862 (base 16) Openpeak, Inc
1750 Clint Moore Rd
Boca Raton Florida 33487
US

0C-D5-02 (hex) Westell Technologies Inc.
0CD502 (base 16) Westell Technologies Inc.
750 N Commons Dr
Aurora IL 60504
US

58-50-E6 (hex) Best Buy Corporation
5850E6 (base 16) Best Buy Corporation
7601 Penn Ave South

Richfield MN 55423
US

3C-1C-BE (hex) JADAK LLC
3C1CBE (base 16) JADAK LLC
7279 William Barry Blvd
North Syracuse
NY 13212
US

7C-08-D9 (hex) Shanghai B-Star Technology Co
7C08D9 (base 16) Shanghai B-Star Technology Co
1158 Xiehe Road
Shanghai 200335
CN

A0-BF-A5 (hex) CORESYS
A0BFA5 (base 16) CORESYS
267-1 Nonhyundong Gangnamgu
Seoul 135-833
KR

B0-5B-1F (hex) THERMO FISHER SCIENTIFIC S.P.A.
B05B1F (base 16) THERMO FISHER SCIENTIFIC S.P.A.
STRADA RIVOLTANA KM 6/7
RODANO MILAN 20090
IT

EC-E9-F8 (hex) Guang Zhou TRI-SUN Electronics Technology Co., Ltd
ECE9F8 (base 16) Guang Zhou TRI-SUN Electronics Technology Co., Ltd
9th floor Guangzhou info port building B, Keyun Road, Tianhe District, Guangzhou ,PRC
Guangzhou Guangdong 510665
CN

34-CE-94 (hex) Parsec (Pty) Ltd
34CE94 (base 16) Parsec (Pty) Ltd
Building 8-10 Manhattan Office Park
Centurion Gauteng 0157
ZA

A4-38-FC (hex) Plastic Logic
A438FC (base 16) Plastic Logic
650 Castro St., Suite 500
Mountain View
CA 94041
US

18-FC-9F (hex) Changhe Electronics Co., Ltd.

18FC9F (base 16) Changhe Electronics Co., Ltd.
6th Floor, Building B, Dajiahao Square, YuÂ¡Â¯an 1st Road, BaoÂ¡Â¯an,
Shenzhen Guangdong 518101
CN

A0-59-3A (hex) V.D.S. Video Display Systems srl
A0593A (base 16) V.D.S. Video Display Systems srl
Via Del Pantano 71
SCANDICCI FI 50018
IT

CC-EA-1C (hex) DCONWORKS Co., Ltd
CCEA1C (base 16) DCONWORKS Co., Ltd
182-13 Daerung Post Tower 2nd 5F
Seoul 152-847
KR

68-7F-74 (hex) Cisco-Linksys, LLC
687F74 (base 16) Cisco-Linksys, LLC
121 Theory Drive
Irvine California 92612
US

38-E9-8C (hex) Reco S.p.A.
38E98C (base 16) Reco S.p.A.
via dell'Industria, 8
Montano Lucino CO 22070
IT

34-EF-8B (hex) NTT Communications Corporation
34EF8B (base 16) NTT Communications Corporation
NTT Hibiya Bldg. 7F
Chiyoda-ku Tokyo 100-8019
JP

20-59-A0 (hex) Paragon Technologies
Inc.
2059A0 (base 16) Paragon Technologies Inc.
68 North 4th Ring Rd West,
Beijing 100080
CN

E4-FF-DD (hex) ELECTRON INDIA
E4FFDD (base 16) ELECTRON INDIA
TYPE II, NO.9, DR. V.S.I. ESTATE
CHENNAI TAMIL NADU 600 041
IN

68-A1-B7 (hex) Honghao Mingchuan Technology (Beijing) CO.,Ltd.
68A1B7 (base 16) Honghao Mingchuan Technology (Beijing) CO.,Ltd.
Floor 8,Tower A, Wanliu Yicheng Building
Beijing 100089
CN

0C-D7-C2 (hex) Axium Technologies, Inc.
0CD7C2 (base 16) Axium Technologies, Inc.
6625 N. Calle Eva Miranda
Irwindale CA 91702
US

C4-19-8B (hex) Dominion Voting Systems Corporation
C4198B (base 16) Dominion Voting Systems Corporation
215 Spadina Avenue
Toronto Ontario M5T 2C7
CA

10-88-0F (hex) Daruma Telecomunicações e Informática S.A.
10880F (base 16) Daruma Telecomunicações e Informática S.A.
AVENIDA INDEPENDENCIA, 3500, LOTEAMENTO INDUSTRIAL
Taubaté
São Paulo 12032-000
BR

FC-61-98 (hex) NEC Personal Products, Ltd
FC6198 (base 16) NEC Personal Products, Ltd
6-80, Shimohanazawa 2-chome,
Yonezawa-shi Yamagata 992-8520
JP

74-D8-50 (hex) Evrisko Systems
74D850 (base 16) Evrisko Systems
2322 Alpine Rd, Ste 10
Eau Claire WI 54703
US

78-99-8F (hex) MEDILINE ITALIA SRL
78998F (base 16) MEDILINE ITALIA SRL
VIA 8 MARZO, 4
CORTE TEGGE REGGIO NELL'EMILIA 42025
IT

F8-47-2D (hex) X2gen Digital Corp. Ltd
F8472D (base 16) X2gen Digital Corp. Ltd
89, Singlong Rd
Pin-Jhen City, 324
TW

84-90-00 (hex) Arnold&Richter Cine Technik GmbH & Co. Betriebs KG
849000 (base 16) Arnold&Richter Cine Technik GmbH & Co. Betriebs KG
Herbert-Bayer-Str. 10
Munchen Bavaria 80807
DE

08-18-4C (hex) A. S. Thomas, Inc.
08184C (base 16) A. S. Thomas, Inc.
355 Providence Hwy
Westwood MA 02090
US

E8-4E-CE (hex) Nintendo Co.,
Ltd.
E84ECE (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

10-45-F8 (hex) LNT-Automation GmbH
1045F8 (base 16) LNT-Automation GmbH
Hans-Paul-Kaysser-Straße 1
Leutenbach-Nellmersbach BW D-71397
DE

DC-E7-1C (hex) AUG Elektronik GmbH
DCE71C (base 16) AUG Elektronik GmbH
Kleinwoellmiss 53
St. Martin a. W. Styria A-8580
AT

A8-70-A5 (hex) UniComm Inc.
A870A5 (base 16) UniComm Inc.
7F-7, No. 716, Chung-Cheng Road,
Chung-Ho City Taipei Hsien 23500
TW

D0-D2-86 (hex) Beckman Coulter K.K.
D0D286 (base 16) Beckman Coulter K.K.
454-32 Higashino,
Nagaizumi-cho, Sunto-gun, Shizuoka-ken 411-0943
JP

24-D2-CC (hex) SmartDrive Systems Inc.
24D2CC (base 16) SmartDrive Systems Inc.
9276 Scranton Road
San Diego CA 92121

US

0C-EF-7C (hex) AnaCom Inc
0CEF7C (base 16) AnaCom Inc
1996 Lundy Ave
San Jose CA 95131
US

40-EC-F8
(hex) Siemens AG
40ECF8 (base 16) Siemens AG
I IS MS EDM
Munich Germany 85630
DE

54-B6-20 (hex) SUHDOL E&C Co.Ltd.
54B620 (base 16) SUHDOL E&C Co.Ltd.
920, Ilsan TechnoTown 1141-1, Baekseok-dong, Ilsandong-gu
Goyang-si Gyunggi-do 410-722
KR

78-C4-0E (hex) H&D Wireless
78C40E (base 16) H&D Wireless
Sjövägen 17
Solna 169 55
SE

C8-87-3B (hex) Net Optics
C8873B (base 16) Net Optics
5303 Betsy Ross Drive
Santa Clara CA 95054
US

2C-06-23 (hex) Win Leader Inc.
2C0623 (base 16) Win Leader Inc.
Level 3 ,Alexander House,
Ebene
MU

0C-27-55 (hex) Valuable Techologies Limited
0C2755 (base 16) Valuable Techologies Limited
602, Centre Point, J.B.Nagar,
Mumbai Maharashtra 400059
IN

BC-B1-81 (hex) SHARP CORPORATION
BCB181 (base 16) SHARP CORPORATION
22-22,Nagaike-cho,

Osaka, 545-8522,
JP

E4-1F-13 (hex) IBM Corp
E41F13
(base 16) IBM Corp
3039 E Cornwallis Road
Research Triangle Park NC 27709-2195
US

C8-3A-35 (hex) Tenda Technology Co., Ltd.
C83A35 (base 16) Tenda Technology Co., Ltd.
Room 601-602,R/D Building Complex,Tsinghua High-Tech Park,nanshan district
Shenzhen Guandong 518057
CN

6C-8C-DB (hex) Otus Technologies Ltd
6C8CDB (base 16) Otus Technologies Ltd
26 Braid Road
Edinburgh Morningside EH10 6AD
GB

40-F5-2E (hex) Leica Microsystems (Schweiz) AG
40F52E (base 16) Leica Microsystems (Schweiz) AG
Max Schmidheiny-Strasse 201
Heerbrugg SG 9435
CH

90-6D-C8 (hex) DLG Automação Industrial Ltda
906DC8 (base 16) DLG Automação Industrial Ltda
Rua José Batista Soares, 53
Sertãozinho São Paulo 14176-119
BR

44-56-B7 (hex) Spawn Labs, Inc
4456B7 (base 16) Spawn Labs, Inc
2209 Granger Lane
Austin TX 78613
US

44-C9-A2 (hex) Greenwald Industries
44C9A2 (base 16) Greenwald
Industries
212 Middlesex Avenue
Chester CT 06412
US

40-61-86 (hex) MICRO-STAR INT'L CO.,LTD

406186 (base 16) MICRO-STAR INT'L CO.,LTD
No.69,Li-De St
Jung-Ho City Taipei Hsien 235
TW

A8-CE-90 (hex) CVC
A8CE90 (base 16) CVC
No.361,Renhua Rd.,
Dali City Taichung 412
TW

00-27-21 (hex) Shenzhen Baoan Fenda Industrial Co., Ltd
002721 (base 16) Shenzhen Baoan Fenda Industrial Co., Ltd
Fenda Hi-Tech Park
Baoan Shenzhen 518108
CN

58-4C-EE (hex) Digital One Technologies, Limited
584CEE (base 16) Digital One Technologies, Limited
Room 2203, No.1 Shangdi Xinxi Road
Beijing 100085
CN

A0-73-32 (hex) Cashmaster International Limited
A07332 (base 16) Cashmaster International Limited
Fairykirk Road
Rosyth Fife KY11 2QQ
GB

64-C6-AF (hex) AXERRA Networks Ltd
64C6AF (base 16) AXERRA Networks Ltd
24 Raoul Wallenberg St. ,
Tel-Aviv ISRAEL 69719
IL

70-1A-ED
(hex) ADVAS CO., LTD.
701AED (base 16) ADVAS CO., LTD.
3-8-8 Shin-yokohama, Kohoku-ku
Yokohama-shi Kanagawa-ken 222-0033
JP

64-65-C0 (hex) Nuvon, Inc
6465C0 (base 16) Nuvon, Inc
3130 Alpine Road
Portola Valley California 94028
US

00-27-1A (hex) Geenovo Technology Ltd.
00271A (base 16) Geenovo Technology Ltd.
Unit 402, 4/F., Tower I,SHUI QING MU HUA YUAN,
Beijing 100080
CN

00-27-14 (hex) Grainmustards, Co,ltd.
002714 (base 16) Grainmustards, Co,ltd.
HEIWA MK Bldg,2-48-4,Nihonbashi-Hama-cho
Tokyo 103-0007
JP

00-27-15 (hex) Rebound Telecom. Co., Ltd
002715 (base 16) Rebound Telecom. Co., Ltd
12F,Building No.82,No.1198,North Qinzhou Rd,
Shanghai 200233
CN

00-27-0F (hex) Envisionnovation Inc
00270F (base 16) Envisionnovation Inc
4 Wareham Drive
Mississauga Ontario L5M 1B6
CA

00-27-0A (hex) IEE S.A.
00270A (base 16) IEE S.A.
ZAE Weiergewan
Contern
L-5326
LU

00-27-09 (hex) Nintendo Co., Ltd.
002709 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

44-56-8D (hex) PNC Technologies Co., Ltd.
44568D (base 16) PNC Technologies Co., Ltd.
Development Center
Anyang Gyeonggi-Do 431-836
KR

7C-1E-B3 (hex) 2N TELEKOMUNIKACE a.s.
7C1EB3 (base 16) 2N TELEKOMUNIKACE a.s.
Modranska 621
Prague 143 01
CZ

00-27-01 (hex) INCOstartec GmbH
002701 (base 16) INCOstartec GmbH
Rheinstraße 17
Teltow Germany 14513
DE

00-26-FB (hex) AirDio Wireless, Inc.
0026FB (base 16) AirDio Wireless, Inc.
13-5, No. 79, Sec. 1, Hsin Tai Wu Road
Hsichih City, Taipei County Taiwan 22101
TW

00-26-F5 (hex) XRPLUS Inc.
0026F5 (base 16) XRPLUS Inc.
#805 Ace Techno Tower 2nd 197-17
Seoul 152-766
KR

00-26-F8 (hex) Golden Highway Industry Development Co., Ltd.
0026F8
(base 16) Golden Highway Industry Development Co., Ltd.
Floor 7, Block 8, Vision Shenzhen Business Park, No.9 Gaoxin 9th South Road
Shenzhen City Guangdong Province 518057
CN

00-26-DF (hex) TaiDoc Technology Corp.
0026DF (base 16) TaiDoc Technology Corp.
7F, No. 127, Wugong 2nd Rd., 24888 Wugu Township
Taipei County Taiwan 24888
TW

00-26-D8 (hex) Magic Point Inc.
0026D8 (base 16) Magic Point Inc.
Suite 203, Building 17, No. 295 Lin Nan Road, Pudong Software Park Sanlin World Expo Block
Shanghai 2000126
CN

00-26-D6 (hex) Ningbo Andy Optoelectronic Co., Ltd.
0026D6 (base 16) Ningbo Andy Optoelectronic Co., Ltd.
Lanjiang Street Industrial Zone
Yuyao Zhejiang 315400
CN

00-26-A2 (hex) Instrumentation Technology Systems
0026A2 (base 16) Instrumentation Technology Systems
19360 Business Center Drive
Northridge CA 91324

US

00-26-9F (hex) Private
00269F (base 16) Private

00-26-99
(hex) Cisco Systems, Inc
002699 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-26-F4 (hex) Nesslab
0026F4 (base 16) Nesslab
489-2 Maetan 3-dong, Yeong Tong-gu
Suwon-si Gyeonggi-do 443-803
KR

00-26-EE (hex) TKM GmbH
0026EE (base 16) TKM GmbH
Schlossstraße 123
Mönchengladbach NRW 41238
DE

00-26-EF (hex) Technology Advancement Group, Inc.
0026EF (base 16) Technology Advancement Group, Inc.
22355 Tag Way
Dulles VA 20166-9310
US

00-26-E6 (hex) Visionhitech Co., Ltd.
0026E6 (base 16) Visionhitech Co., Ltd.
Vision bldg. 150-3
Buchon Kyunggi-Do 420-822
KR

00-26-B2 (hex) Setrix GmbH
0026B2 (base 16) Setrix GmbH
Josephspitalstr. 15
Muenchen Bayern 80331
DE

00-26-AF (hex) Duelco A/S
0026AF (base 16) Duelco A/S
Mommarkvej 5
Soenderborg Soenderjylland DK6400
DK

00-26-B3 (hex) Thales Communications Inc
0026B3
(base 16) Thales Communications Inc
22605 Gateway Center Drive
Clarksburg MD 20871
US

00-26-D1 (hex) S Squared Innovations Inc.
0026D1 (base 16) S Squared Innovations Inc.
6807-104 Street
Edmonton AB T6H 2L5
CA

00-26-D3 (hex) Zeno Information System
0026D3 (base 16) Zeno Information System
#1404 A-Dong Digital Empire Bldg, 980-3, Youngtong-dong, Youngtong-gu
Suwon City Gyeonggi-Do 443-702
KR

00-26-CB (hex) Cisco Systems, Inc
0026CB (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-26-87 (hex) corega K.K
002687 (base 16) corega K.K
1-19-20, Shinyokohama
Yokohama-city Kanagawa-ken 222-0033
JP

00-26-8D (hex) CellTel S.p.A.
00268D (base 16) CellTel S.p.A.
Via Romano 72
Scarmagno Torino 10010
IT

00-26-28 (hex) companytec automação e controle ltda.
002628 (base 16) companytec automação e controle ltda.
Rua Marcilio Dias 3005
Pelotas
Rio Grande do Sul 96020-480
BR

00-26-1F (hex) SAE Magnetics (H.K.) Ltd.
00261F (base 16) SAE Magnetics (H.K.) Ltd.
SAE Technology Centre
Hong Kong Science Park Shatin, New Territories

HK

00-26-1E (hex) QINGBANG ELEC(SZ) CO., LTD
00261E (base 16) QINGBANG ELEC(SZ) CO., LTD
No. 2, qimin Rd. North District, High-tech Industrial Park, Nanshan,
Shenzhen Guangdong 518000
CN

00-26-19 (hex) FRC
002619 (base 16) FRC
1511 South Benjamin Avenue
Mason City IA 50401
US

00-26-40 (hex) Baustem Broadband Technologies, Ltd.
002640 (base 16) Baustem Broadband Technologies, Ltd.
910 Quantum Plaza
Beijing 100191
CN

00-26-33 (hex) MIR - Medical International Research
002633 (base 16) MIR - Medical International Research
Via del Maggiolino 125
Rome RM 00155
IT

00-26-6A (hex) ESSENSIUM NV
00266A (base 16) ESSENSIUM NV
Gaston Geenslaan 9
LEUVEN VL BRABANT
3001
BE

00-26-6B (hex) SHINE UNION ENTERPRISE LIMITED
00266B (base 16) SHINE UNION ENTERPRISE LIMITED
UNIT 1211, 12FL., CHEVALIER COMMERCIAL CENTER,
KOWLOON NIL
HK

00-26-67 (hex) CARECOM CO.,LTD.
002667 (base 16) CARECOM CO.,LTD.
3-35-4
Chofu Tokyo 182-0025
JP

00-25-FE (hex) Pilot Electronics Corporation
0025FE (base 16) Pilot Electronics Corporation
No. 2, Tzu-Chiang 3rd Road, Chung-Li Industrial Zone,

Taoyuan Hsien 32063
TW

00-25-FA (hex) J&M Analytik AG
0025FA (base 16) J&M Analytik AG
Willy-Messerschmitt-Strasse 8
Essingen BW 73457
DE

00-26-47 (hex) WFE TECHNOLOGY CORP.
002647 (base 16) WFE TECHNOLOGY CORP.
17F NO.238,Chin-Hua N Rd,
Taichung 404
TW

00-26-53 (hex) DaySequerra Corporation
002653 (base 16) DaySequerra Corporation
154 Cooper Road
West Berlin NJ 08091
US

00-26-30 (hex) ACOREL S.A.S
002630 (base 16) ACOREL S.A.S
3,
Rue Paul LANGEVIN
SAINT-PERAY F-07130
FR

00-26-2A (hex) Proxense, LLC
00262A (base 16) Proxense, LLC
689 NW Stonepine Dr
Bend Oregon 97701
US

00-26-7B (hex) GSI Helmholtzzentrum für Schwerionenforschung GmbH
00267B (base 16) GSI Helmholtzzentrum für Schwerionenforschung GmbH
Planckstraße 1
Darmstadt Hessen 64291
DE

00-25-96 (hex) GIGAVISION srl
002596 (base 16) GIGAVISION srl
Via Figini, 16
Muggiò Milano 20053
IT

00-25-95 (hex) Northwest Signal Supply, Inc
002595 (base 16) Northwest Signal Supply, Inc

12965 SW Herman Rd
Tualatin OR 97062
US

00-25-8F (hex) Trident Microsystems, Inc.
00258F (base 16) Trident Microsystems, Inc.
3408 Garrett Drive
Santa Clara CA 95054
US

00-25-89 (hex) Hills Industries Limited
002589 (base 16) Hills Industries Limited
5 Cambria Road
Melbourne VIC 3173
AU

00-25-85 (hex) KOKUYO S&T Co., Ltd.
002585 (base
16) KOKUYO S&T Co., Ltd.
1-8-35
Minato-ku Tokyo 108-8710
JP

00-25-C9 (hex) SHENZHEN HUAPU DIGITAL CO., LTD
0025C9 (base 16) SHENZHEN HUAPU DIGITAL CO., LTD
Futian District,Chegongmiao,TianAn Cyberpark
ShenZhen Guangdong Province 518040
CN

00-25-BE (hex) Tektrap Systems Inc.
0025BE (base 16) Tektrap Systems Inc.
15 Buteau St.
Gatineau Quebec J8Z 1V4
CA

00-25-EA (hex) Iphion BV
0025EA (base 16) Iphion BV
Willemstraat 106
Eindhoven 5616GE
NL

00-25-F0 (hex) Suga Electronics Limited
0025F0 (base 16) Suga Electronics Limited
Units 1904-1907, Chevalier Commercial Centre,
Kowloon Bay Hong Kong
CN

00-25-B5 (hex) Cisco Systems, Inc

0025B5 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-25-E8 (hex) Idaho Technology
0025E8 (base 16) Idaho Technology
390 Wakara way
Salt Lake city UT 84108
US

00-25-E4 (hex) OMNI-WiFi,
LLC
0025E4 (base 16) OMNI-WiFi, LLC
70 Sullivan Street
Berwick Maine 03901
US

00-25-81 (hex) x-star networks Inc.
002581 (base 16) x-star networks Inc.
1F,NO1-2,Chungching S.Rd.Sec 3
Taipei 10076
TW

00-25-A0 (hex) Nintendo Co., Ltd.
0025A0 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-25-9B (hex) Beijing PKUNITY Microsystems Technology Co., Ltd
00259B (base 16) Beijing PKUNITY Microsystems Technology Co., Ltd
11th Floor, Resource Plaza, No.151 North Zhongguancun Street
Beijing 100080
CN

00-25-D7 (hex) CEDO
0025D7 (base 16) CEDO
Videnska 127
BRNO 61900
CZ

00-25-D8 (hex) KOREA MAINTENANCE
0025D8 (base 16) KOREA MAINTENANCE
3F HAELIM BUIDING 103-7, GURO-5DONG
SEOUL 152-842
KR

00-25-D2 (hex) InpegVision Co., Ltd
0025D2 (base 16) InpegVision Co., Ltd
226-3, Bugok-dong, Geumjeong-gu,
Busan
609-320
KR

00-25-4D (hex) Singapore Technologies Electronics Limited
00254D (base 16) Singapore Technologies Electronics Limited
24 Ang Mo Kio
569061
SG

00-25-4C (hex) Videon Central, Inc.
00254C (base 16) Videon Central, Inc.
2171 Sandy Drive
State College PA 16803
US

00-25-43 (hex) MONEYTECH
002543 (base 16) MONEYTECH
Rua Guiratinga 931 un. 103
São Paulo SP 04141-001
BR

00-25-7B (hex) STJ ELECTRONICS PVT LTD
00257B (base 16) STJ ELECTRONICS PVT LTD
X-24 OKHLA INDUSTRIAL AREA
NEW DELHI DELHI 110 020
IN

00-25-7C (hex) Huachentel Technology Development Co., Ltd
00257C (base 16) Huachentel Technology Development Co., Ltd
747 XinYu Rd. High-Tech Zone
Jinan Shandong Province 250101
CN

00-25-75 (hex) FiberPlex Technologies, LLC
002575 (base 16) FiberPlex Technologies, LLC
10840-412 Guilford Rd
Annapolis Junction MD 20701
US

00-25-70
(hex) Eastern Communications Company Limited
002570 (base 16) Eastern Communications Company Limited
No.398 Wensan Road,
Hangzhou Zhejiang 310013

CN

00-25-6A (hex) inIT - Institut Industrial IT
00256A (base 16) inIT - Institut Industrial IT
Liebigstrasse 87
Lemgo Northrhine-Westfalia 32657
DE

00-25-62 (hex) interbro Co. Ltd.
002562 (base 16) interbro Co. Ltd.
6F Joyang B/D, 113 Samseong-Dong, Gangnam-Gu
Seoul 135-090
KR

00-25-51 (hex) SE-Elektronic GmbH
002551 (base 16) SE-Elektronic GmbH
Eythstraße 16
Göppingen 73037
DE

00-25-5B (hex) CoachComm, LLC
00255B (base 16) CoachComm, LLC
205 Technology Parkway
Auburn AL 36830
US

00-25-16 (hex) Integrated Design Tools, Inc.
002516 (base 16) Integrated Design Tools, Inc.
1202 E Park Avenue
Tallahassee FL 32301
US

00-25-10 (hex) Pico-Tesla Magnetic Therapies
002510 (base 16) Pico-Tesla Magnetic Therapies
7852
South Elati
Littleton CO 80120
US

00-25-20 (hex) SMA Railway Technology GmbH
002520 (base 16) SMA Railway Technology GmbH
Miramstraße 87
Kassel Hesse 34123
DE

00-25-27 (hex) Bitrode Corp.
002527 (base 16) Bitrode Corp.
9787 Green Park Industrial Drive

St. Louis MO 63123
US

00-25-25 (hex) CTERA Networks Ltd.
002525 (base 16) CTERA Networks Ltd.
24 Imber St.
Petach-Tikva 495111
IL

00-25-3A (hex) CEVA, Ltd.
00253A (base 16) CEVA, Ltd.
2 Maskit Street.
Herzelia 46120
IL

00-24-F7 (hex) Cisco Systems, Inc
0024F7 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-24-F3 (hex) Nintendo Co., Ltd.
0024F3 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-24-B9 (hex) Wuhan Higheasy Electronic Technology Development Co.Ltd
0024B9 (base 16) Wuhan Higheasy Electronic
Technology Development Co.Ltd
Bldg A2 Optics Valley Software Park,Guanshan 1st Rd,
Wuhan Hubei 430033
CN

00-24-BD (hex) Hainzl Industriesysteme GmbH
0024BD (base 16) Hainzl Industriesysteme GmbH
Industriezeile 56
Linz Upper Austria 4021
AT

00-24-E0 (hex) DS Tech, LLC
0024E0 (base 16) DS Tech, LLC
2210 Hutton Drive
Carrollton TX 75006
US

00-24-E2 (hex) HASEGAWA ELECTRIC CO.,LTD.
0024E2 (base 16) HASEGAWA ELECTRIC CO.,LTD.

5-6-20 SHIOE
AMAGASAKI HYOGO 661-0976
JP

00-24-C8 (hex) Broadband Solutions Group
0024C8 (base 16) Broadband Solutions Group
1101 Marina Village Parkway
Alameda CA 94501
US

00-24-C5 (hex) Meridian Audio Limited
0024C5 (base 16) Meridian Audio Limited
11 Latham Road
Huntingdon Cambs PE29 6YE
GB

00-24-E5 (hex) Seer Technology, Inc
0024E5 (base 16) Seer Technology, Inc
2681 Parleys Way
Salt Lake City Utah 84109
US

00-25-01
(hex) JSC Supertel
002501 (base 16) JSC Supertel
38A Petrogradskaya emb.
St.Petersburg 197101
RU

00-24-35 (hex) WIDE CORPORATION
002435 (base 16) WIDE CORPORATION
LEADERS TOWER 7TH FL., GOMAE-DONG, GIHEUNG-GU
YONGIN GYEONGGI 446-901
KR

00-24-31 (hex) Uni-v co.,ltd
002431 (base 16) Uni-v co.,ltd
5/F,COFCO Property Tower,
Shenzhen Guangdong 518126
CN

00-24-32 (hex) Neostar Technology Co.,LTD
002432 (base 16) Neostar Technology Co.,LTD
8F., No.102, Sec. 1, Sintai 5th Rd.
Sijhih City Taipei 22161
TW

00-24-30 (hex) Ruby Tech Corp.

002430 (base 16) Ruby Tech Corp.
3F, NO. 1, Lane 50, Nan Kang Road, Sec. 3,
Taipei 11510
TW

00-24-2E (hex) Datastrip Inc.
00242E (base 16) Datastrip Inc.
1 Waterview Drive
Shelton CT 06484
US

00-24-58 (hex) PA Bastion CC
002458 (base 16) PA Bastion CC
97, liter K, Buddyonnovsky ave.
Rostov-on-Don 344011
RU

00-24-5D
(hex) Terberg besturingstechniek B.V.
00245D (base 16) Terberg besturingstechniek B.V.
Lage Dijk-Noord 3
IJsselstein Utrecht 3401 VA
NL

00-24-50 (hex) Cisco Systems, Inc
002450 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-24-96 (hex) Ginzinger electronic systems
002496 (base 16) Ginzinger electronic systems
Gewerbegebiet Pirath 16
Weng Upper Austria 4952
AT

00-24-99 (hex) Aquila Technologies
002499 (base 16) Aquila Technologies
8429A Washington Place NE
Albuquerque NM 87113
US

00-24-8A (hex) Kaga Electronics Co., Ltd.
00248A (base 16) Kaga Electronics Co., Ltd.
Hongo 2-2-9
Tokyo 113-8503
JP

00-24-87 (hex) Transact Campus, Inc.
002487 (base 16) Transact Campus, Inc.
22601 North 19th Avenue
Phoenix AZ 85027
US

00-24-77 (hex) Tibbo Technology
002477 (base 16) Tibbo Technology
9F-3, No 31, Lane
169, Kang-Ning St.,
Hsi-Chih Taipei Hsien 221
TW

00-24-6E (hex) Phihong USA Corp.
00246E (base 16) Phihong USA Corp.
47800 Fremont Blvd.
Fremont CA 94538
US

00-24-73 (hex) 3COM EUROPE LTD
002473 (base 16) 3COM EUROPE LTD
Peoplebuilding 2
Hemel Hempstead HERTS. HP2 4NW
GB

00-24-43 (hex) Nortel Networks
002443 (base 16) Nortel Networks
2221 Lakeside Blvd
Richardson TX 75081
US

00-24-41 (hex) Wanzl Metallwarenfabrik GmbH
002441 (base 16) Wanzl Metallwarenfabrik GmbH
Bubesheimer Straße 4
Leipheim Bavaria 89340
DE

00-24-3B (hex) CSSI (S) Pte Ltd
00243B (base 16) CSSI (S) Pte Ltd
70 Bendemeer Road Unit 04-04
339940
SG

00-24-51 (hex) Cisco Systems, Inc
002451 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-24-4A (hex) Voyant International
00244A (base 16) Voyant International
444 Castro St
Mountain View
CA 94041
US

00-24-47 (hex) Kaztek Systems
002447 (base 16) Kaztek Systems
17 Bromfield Road
Acton MA 01720
US

00-24-6B (hex) Covia, Inc.
00246B (base 16) Covia, Inc.
Benex S-3 Bldg., 3-20-8, Shinyokohama,Kohoku-ku,
Yokohama-city Kanagawa-pref. 222-0033
JP

00-23-B8 (hex) Sichuan Jiuzhou Electronic Technology Co.,Ltd
0023B8 (base 16) Sichuan Jiuzhou Electronic Technology Co.,Ltd
No.259 Jiuzhou Road,
Mianyang Sichuan 621000
CN

00-23-BA (hex) Chroma
0023BA (base 16) Chroma
68, Hwa-Ya 1st Rd., Hwa-Ya Technical Park,
Taoyuan Hsien Taiwan 333
TW

00-23-BC (hex) EQ-SYS GmbH
0023BC (base 16) EQ-SYS GmbH
Hinter den Gärten 15b
Treuenbrietzen OT Feldheim Brandenburg 14929
DE

00-23-B1 (hex) Longcheer Technology (Singapore) Pte Ltd
0023B1 (base 16) Longcheer Technology (Singapore) Pte Ltd
43 Kaki Bukit View, #04-01 ,
415970
SG

00-23-F5 (hex) WILO SE
0023F5
(base 16) WILO SE
Nortkirchenstraße 100

D - 44263 Dortmund NRW 44263
DE

00-23-FF (hex) Beijing HTTC Technology Ltd.
0023FF (base 16) Beijing HTTC Technology Ltd.
B-13D-3 Keshi Building,Jia No.28 Xinxi Road,SHANGDI IT Industry Base
Beijing 100085
CN

00-23-F6 (hex) Softwell Technology Co., Ltd.
0023F6 (base 16) Softwell Technology Co., Ltd.
4F, No. 419, Jhonghe Rd., Yonghe City,
Taipei County 234
TW

00-23-F3 (hex) Glocom, Inc.
0023F3 (base 16) Glocom, Inc.
22 Firstfield Road
Gaithersburg Maryland 20878
US

00-23-F0 (hex) Shanghai Jinghan Weighing Apparatus Co. Ltd.
0023F0 (base 16) Shanghai Jinghan Weighing Apparatus Co. Ltd.
Building 58, No.99 Chunguang Road, Xinzhuang Industrial Zone,Minhang,
Shanghai 201108
CN

00-24-1A (hex) Red Beetle Inc.
00241A (base 16) Red Beetle Inc.
898 Silas Deane Highway
Wethersfield CT 06109
US

00-24-14 (hex) Cisco
Systems, Inc
002414 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-24-10 (hex) NUETEQ Technology,Inc.
002410 (base 16) NUETEQ Technology,Inc.
11F, No. 112, Sec. 1, Zhong-Xiao E Rd.
Taipei 100
TW

00-23-CC (hex) Nintendo Co., Ltd.
0023CC (base 16) Nintendo Co., Ltd.

11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-24-08 (hex) Pacific Biosciences
002408 (base 16) Pacific Biosciences
1505 Adams Drive
Menlo Park CA 94025
US

00-24-0C (hex) DELEC GmbH
00240C (base 16) DELEC GmbH
Ruheweg 17-21
Göllheim Rheinland-Pfalz 67307
DE

00-23-F9 (hex) Double-Take Software, INC.
0023F9 (base 16) Double-Take Software, INC.
8470 Allison Pointe Blvd
Indianapolis IN 46250
US

00-23-A1 (hex) Trend Electronics Ltd
0023A1 (base 16) Trend Electronics Ltd
Gut No. 350
Auranagabad Maharashtra 431210
IN

00-23-A6
(hex) E-Mon
0023A6 (base 16) E-Mon
One Oxford Valley, Suite 418
Langhorne PA 19047
US

00-23-A8 (hex) Marshall Electronics
0023A8 (base 16) Marshall Electronics
20608 Madrona Ave
Torrance CA 90503
US

00-23-C0 (hex) Broadway Networks
0023C0 (base 16) Broadway Networks
1754 Technology Drive, Suite 208
San Jose California 95110
US

00-23-B6 (hex) SECURITE COMMUNICATIONS / HONEYWELL

0023B6 (base 16) SECURITE COMMUNICATIONS / HONEYWELL
FONT DE L'ORME
MOUGINS FRANCE 06250
US

00-23-EA (hex) Cisco Systems, Inc
0023EA (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-23-E5 (hex) IPaXiom Networks
0023E5 (base 16) IPaXiom Networks
Aston Court
High Wycombe Buckinghamshire HP11 1LA
GB

00-23-49 (hex) Helmholtz Centre Berlin for Material and Energy
002349 (base 16) Helmholtz Centre Berlin for Material and Energy
Department FMD
Berlin
14109
DE

00-23-46 (hex) Vestac
002346 (base 16) Vestac
P.O. Box 7358
Shrewsbury NJ 07702
US

00-23-44 (hex) Objective Interface Systems, Inc.
002344 (base 16) Objective Interface Systems, Inc.
220 Spring Street, Suite 530
Herndon VA 20170-6201
US

00-23-3C (hex) Alflex
00233C (base 16) Alflex
Blauw-roodlaan 300
ZOETERMEER 2718 SK
NL

00-23-79 (hex) Union Business Machines Co. Ltd.
002379 (base 16) Union Business Machines Co. Ltd.
Unit 2, 2/F, Block A, Hong Kong Industrial Centre,
Lai Chi Kok Kowloon
HK

00-23-77 (hex) Isotek Electronics Ltd
002377 (base 16) Isotek Electronics Ltd
9 Clayton Wood Bank
Leeds LS16 6QZ
GB

00-23-71 (hex) SOAM Systel
002371 (base 16) SOAM Systel
182-13, Daerung Post Tower II, 1504
Seoul Guro-dong, Guro-gu 152-847
KR

00-23-62 (hex) Goldline Controls
002362 (base 16) Goldline Controls
61 Whitecap Dr
North
Kingstown RI 02852
US

00-23-5E (hex) Cisco Systems, Inc
00235E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-23-58 (hex) SYSTEL SA
002358 (base 16) SYSTEL SA
ZI DE BELLE AIRE
AYTRE 17440
FR

00-23-56 (hex) Packet Forensics LLC
002356 (base 16) Packet Forensics LLC
420 S Smith Rd
Tempe AZ 85281
US

00-23-50 (hex) RDC, Inc. dba LynTec
002350 (base 16) RDC, Inc. dba LynTec
8385 Melrose Drive
Lenexa KS 66214
US

00-23-4F (hex) Luminous Power Technologies Pvt. Ltd.
00234F (base 16) Luminous Power Technologies Pvt. Ltd.
C8-C9, Community Center,
New Delhi 110058
IN

00-23-9A (hex) EasyData Hardware GmbH
00239A (base 16) EasyData Hardware GmbH
Breslauer Str. 24
Wehrheim Hessen D-61273
DE

00-23-96 (hex) ANDES TECHNOLOGY CORPORATION
002396 (base 16) ANDES TECHNOLOGY CORPORATION
2F,No. 1, Li-Hsin First Road,
Hsin-Chu
Taiwan 300
TW

00-23-94 (hex) Samjeon
002394 (base 16) Samjeon
#1313-1 Joil-Ri, Samdong-Myeun,Ulju-Gun
Ulsan City South Korea 689-934
KR

00-23-8C (hex) Private
00238C (base 16) Private

00-23-17 (hex) Lasercraft Inc
002317 (base 16) Lasercraft Inc
1450 Oakbrook Drive
Norcross GA 30093
US

00-23-0E (hex) Gorba AG
00230E (base 16) Gorba AG
Sandackerstrasse
Oberbüren SG CH - 9245
CH

00-23-07 (hex) FUTURE INNOVATION TECH CO.,LTD
002307 (base 16) FUTURE INNOVATION TECH CO.,LTD
312 3-DONG, GWANGMYUNG INDUSTRIAL COMPLEX 201
GWANGMYUNG GYUNGGI 423060
KR

00-23-33 (hex) Cisco Systems, Inc
002333 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-23-2E (hex) Kedah Electronics Engineering, LLC

00232E (base 16) Kedah Electronics Engineering, LLC
Zelenograd, 445
Moscow 124498
RU

00-23-20 (hex) Nicira Networks
002320
(base 16) Nicira Networks
3460 W. Bayshore Rd.
Palo Alto CA 94303
US

00-23-22 (hex) KISS Teknical Solutions, Inc.
002322 (base 16) KISS Teknical Solutions, Inc.
1583 S. Navajo Way
Chandler Arizona 85286
US

00-23-64 (hex) Power Instruments Pte Ltd
002364 (base 16) Power Instruments Pte Ltd
BLK 40 TOH GUAN RD EAST, #01-62 ENTERPRISE HUB
608582
SG

00-22-C7 (hex) SEGGER Microcontroller GmbH & Co. KG
0022C7 (base 16) SEGGER Microcontroller GmbH & Co. KG
In den Weiden 11
Hilden NRW 40721
DE

00-22-C1 (hex) Active Storage Inc.
0022C1 (base 16) Active Storage Inc.
2295 Jefferson Street
Torrance CA 90501
US

00-22-C2 (hex) Proview Eletrônica do Brasil LTDA
0022C2 (base 16) Proview Eletrônica do Brasil LTDA
R. Acará 203 - Distrito Industrial
Manaus Amazonas 69075-030
BR

00-22-BD (hex) Cisco Systems, Inc
0022BD (base 16) Cisco Systems, Inc
80 West
Tasman Drive
San Jose CA 94568
US

00-22-BA (hex) HUTH Elektronik Systeme GmbH
0022BA (base 16) HUTH Elektronik Systeme GmbH
Echternacher Str. 10
Troisdorf-Spich NRW 53842
DE

00-22-BB (hex) beyerdynamic GmbH & Co. KG
0022BB (base 16) beyerdynamic GmbH & Co. KG
Theresienstraße 8
Heilbronn 74072
DE

00-22-B6 (hex) Superflow Technologies Group
0022B6 (base 16) Superflow Technologies Group
4060 Dixon Street
Des Moines IA 50266
US

00-22-B5 (hex) NOVITA
0022B5 (base 16) NOVITA
3F301,Namsung B/D 340-30
Geumcheon-Gu Seoul 153-782
KR

00-22-B2 (hex) 4RF Communications Ltd
0022B2 (base 16) 4RF Communications Ltd
26 Glover Street
Ngauranga Wellington 6031
NZ

00-22-AC (hex) Hangzhou Siyuan Tech. Co., Ltd
0022AC (base 16) Hangzhou Siyuan Tech. Co., Ltd
5 F, Tower B, No. 37, Xiang Yuan Road
Hangzhou Zhejiang 310012
CN

00-22-AD (hex) TELESIS TECHNOLOGIES,
INC.
0022AD (base 16) TELESIS TECHNOLOGIES, INC.
28181 River Drive
Circleville Ohio 43113
US

00-22-AE (hex) Mattel Inc.
0022AE (base 16) Mattel Inc.
333 Continental Blvd.
El Segundo CA 90245

US

00-23-05 (hex) Cisco Systems, Inc
002305 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-22-FF (hex) NIVIS LLC
0022FF (base 16) NIVIS LLC
1000 CIRCLE 75
ATLANTA GA 30339
US

00-23-02 (hex) Cobalt Digital, Inc.
002302 (base 16) Cobalt Digital, Inc.
2406 East University Avenue
Urbana IL 61802
US

00-22-F5 (hex) Advanced Realtime Tracking GmbH
0022F5 (base 16) Advanced Realtime Tracking GmbH
Am Oeferl 6
Weilheim Bayern D-82362
DE

00-22-D1 (hex) Albrecht Jung GmbH & Co. KG
0022D1 (base 16) Albrecht Jung GmbH & Co. KG
Volmestraße 1
Schalksmühle NRW 58579
DE

00-22-D2 (hex) All Earth Comércio de Eletrônicos LTDA.
0022D2
(base 16) All Earth Comércio de Eletrônicos LTDA.
Rua Leonida Reimman Trotti, 343
Campinas São Paulo 13065-704
BR

00-22-CA (hex) Anviz Biometric Tech. Co., Ltd.
0022CA (base 16) Anviz Biometric Tech. Co., Ltd.
5th Floor, 4299 Jindu Road,
Shanghai 201108
CN

00-22-A3 (hex) California Eastern Laboratories
0022A3 (base 16) California Eastern Laboratories
4590 Patrick Henry Dr.

Santa Clara CA 95054
US

00-22-A0 (hex) APTIV SERVICES US, LLC
0022A0 (base 16) APTIV SERVICES US, LLC
5725 Innovation Drive
Troy MI 48098
US

00-22-97 (hex) XMOS Semiconductor
002297 (base 16) XMOS Semiconductor
Venturers House
Bristol BS1 4PB
GB

00-22-8F (hex) CNRS
00228F (base 16) CNRS
MRCT
Meudon Ile de France 92195
FR

00-22-7E (hex) Chengdu 30Kaitian Communication Industry Co.Ltd
00227E (base 16) Chengdu 30Kaitian Communication Industry Co.Ltd
No.6 Chuangye Road
Chengdu
Sichuan 610041
CN

00-22-7C (hex) Woori SMT Co.,ltd
00227C (base 16) Woori SMT Co.,ltd
649-2,Suwolam-ri,Seotan-Myun
Pyongtaek Kyonggi-Do 451-852
KR

00-22-77 (hex) NEC Australia Pty Ltd
002277 (base 16) NEC Australia Pty Ltd
649-655 Springvale Rd
Mulgrave Victoria 3170
AU

00-22-79 (hex) Nippon Conlux Co., Ltd.
002279 (base 16) Nippon Conlux Co., Ltd.
5-3-8, Chiyoda
Sakado-shi Saitama 350-0214
JP

00-22-E5 (hex) Fisher-Rosemount Systems Inc.
0022E5 (base 16) Fisher-Rosemount Systems Inc.

12301 Research Blvd
Austin Texas 78759
US

00-22-E4 (hex) APASS TECHNOLOGY CO., LTD.
0022E4 (base 16) APASS TECHNOLOGY CO., LTD.
2F, No. 267, Sec. 3, Chengde Rd.,
TEIPEI 113
TW

00-22-D5 (hex) Eaton Corp. Electrical Group Data Center Solutions - Pulizzi
0022D5 (base 16) Eaton Corp. Electrical Group Data Center Solutions - Pulizzi
3200 S. Susan St.
Santa Ana CA
92704
US

00-22-92 (hex) Cinetal
002292 (base 16) Cinetal
8651 Castle Park
Indianapolis IN 46256
US

00-22-58 (hex) Taiyo Yuden Co., Ltd.
002258 (base 16) Taiyo Yuden Co., Ltd.
8-1 Sakae-Cho

JP

00-22-5B (hex) Teradici Corporation
00225B (base 16) Teradici Corporation
101 4621 Canada Way,
Burnaby BC V6G 4X8
CA

00-22-59 (hex) Guangzhou New Postcom Equipment Co.,Ltd.
002259 (base 16) Guangzhou New Postcom Equipment Co.,Ltd.
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Guangzhou Guangdong 510663
CN

00-22-53 (hex) Entorian Technologies
002253 (base 16) Entorian Technologies
8900 Shoal Creek Blvd
Austin TX 78757
US

00-22-4F (hex) Byzoro Networks Ltd.

00224F (base 16) Byzoro Networks Ltd.
Room 5A1,Block A, Keshi Plaza,No. 28A Info. Road,
Beijing 100085
CN

00-22-35 (hex) Strukton Systems bv
002235 (base 16) Strukton Systems bv
Westkanaaldijk
2
Utrecht 3542 DA
NL

00-22-2C (hex) Ceton Corp
00222C (base 16) Ceton Corp
8259 122nd Ave NE, Suite 275
Kirkland Washington 98033
US

00-22-2D (hex) SMC Networks Inc.
00222D (base 16) SMC Networks Inc.
20 Mason
Irvine CA 92618
US

00-22-2A (hex) SoundEar A/S
00222A (base 16) SoundEar A/S
Rentemestervej 80
Copenhagen NV Denmark DK-2400
DK

00-22-05 (hex) WeLink Solutions, Inc.
002205 (base 16) WeLink Solutions, Inc.
3F, No. 88, Sec. 1, Nei-Hu Rd.
Taipei 114
TW

00-22-09 (hex) Omron Healthcare Co., Ltd
002209 (base 16) Omron Healthcare Co., Ltd
24 Yamanoshita-cho Yamanouchi
Kyoto 6150084
JP

00-21-F9 (hex) WIRECOM Technologies
0021F9 (base 16) WIRECOM Technologies
135, rue Jacques Charles
OLIVET Loiret 45166
FR

00-21-FA (hex) A4SP Technologies Ltd.
0021FA (base 16) A4SP Technologies Ltd.
Keilaranta 19 D
Espoo Uusimaa
02150
FI

00-22-71 (hex) Jäger Computergesteuerte Meßtechnik GmbH.
002271 (base 16) Jäger Computergesteuerte Meßtechnik GmbH.
Rheinstraße 2-4
Lorsch Hessen 64653
DE

00-22-5E (hex) Uwin Technologies Co.,LTD
00225E (base 16) Uwin Technologies Co.,LTD
2F,No.22.R&D RD II,SBIP
Hsinchu 300
TW

00-22-11 (hex) Rohati Systems
002211 (base 16) Rohati Systems
1192 Borregas Ave
Sunnyvale CA 94089
US

00-22-12 (hex) CAI Networks, Inc.
002212 (base 16) CAI Networks, Inc.
4790 Irvine Blvd
Irvine California 92620
US

00-22-0D (hex) Cisco Systems, Inc
00220D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-22-08 (hex) Certicom Corp
002208 (base 16) Certicom Corp
5520 Explorer Drive, 4th Floor
Mississauga ON L4W 5L1
CA

00-22-3D (hex) JumpGen Systems, LLC
00223D (base 16) JumpGen Systems, LLC
2111 Palomar Airport Rd
Carlsbad

CA 92011
US

00-22-39 (hex) Indiana Life Sciences Incorporated
002239 (base 16) Indiana Life Sciences Incorporated
8875 Bash Street
Indianapolis Indiana 46256
US

00-22-1F (hex) eSang Technologies Co., Ltd.
00221F (base 16) eSang Technologies Co., Ltd.
#1-817, IT Castle 550-1, Gasan-Dong,
Seoul 153-768
KR

00-22-17 (hex) Neat Electronics
002217 (base 16) Neat Electronics
Varuvägen 2
Löddeköpinge Skåne SE-24642
SE

00-21-F0 (hex) EW3 Technologies LLC
0021F0 (base 16) EW3 Technologies LLC
114 E 11th St
Connersville IN 47331
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00-21-EE (hex) Full Spectrum Inc.
0021EE (base 16) Full Spectrum Inc.
1149 Chestnut Street, Suite 100
Menlo Park California 94025
US

00-21-EC (hex) Solutronic GmbH
0021EC (base 16) Solutronic GmbH
Kueferstrasse 18
Koengen 73257
DE

00-22-51 (hex) Lumasense Technologies
002251 (base 16) Lumasense Technologies
3033
Scott Blvd.
Santa Clara CA 95054
US

00-22-47 (hex) DAC ENGINEERING CO., LTD.
002247 (base 16) DAC ENGINEERING CO., LTD.

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Kyoto 601-8128
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00-21-A0 (hex) Cisco Systems, Inc
0021A0 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-21-98 (hex) Thai Radio Co, LTD
002198 (base 16) Thai Radio Co, LTD
Hi-Tech Industrial Estate
Ayutthaya 13160
TH

00-21-8C (hex) TopControl GMBH
00218C (base 16) TopControl GMBH
Enzenbergweg 24/A
Terlan (BZ) 39018
IT

00-21-8A (hex) Electronic Design and Manufacturing Company
00218A (base 16) Electronic Design and Manufacturing Company
31 Millrace Dr
Lynchburg VA 24502
US

00-21-8B (hex) Wescon Technology, Inc.
00218B (base 16) Wescon Technology, Inc.
4655-170 Old Ironsides Drive
Santa Clara California 95054
US

00-21-84 (hex) POWERSOFT SRL
002184 (base 16) POWERSOFT
SRL
VIA ENRICO CONTI, 5
SCANDICCI FI 50018
IT

00-21-7A (hex) Sejin Electron, Inc.
00217A (base 16) Sejin Electron, Inc.
SJ Technoville
Seoul 153-801
KR

00-21-D3 (hex) BOCOM SECURITY(ASIA PACIFIC) LIMITED

0021D3 (base 16) BOCOM SECURITY(ASIA PACIFIC) LIMITED
Flr.3,NO.29,#69 Guiqing RD
Shanghai 200233
CN

00-21-CC (hex) Flextronics International
0021CC (base 16) Flextronics International
Stretton Green Distribution Centre Langford Way
Warrington Cheshire WA4 4TQ
GB

00-21-CF (hex) The Crypto Group
0021CF (base 16) The Crypto Group
Zugerstrasse 42
Steinhausen Zug 6312
CH

00-21-B9 (hex) Universal Devices Inc.
0021B9 (base 16) Universal Devices Inc.
5353 Yarmouth Ave. #209
Encino CA 91316
US

00-21-B3 (hex) Ross Controls
0021B3 (base 16) Ross Controls
One Ross Way
Lavonia GA 30553
US

00-21-B6 (hex) Triacta Power Technologies Inc.
0021B6
(base 16) Triacta Power Technologies Inc.
Box 582, 7 Mill Street
Almonte Ontario K0A 1A0
CA

00-21-AE (hex) ALCATEL-LUCENT FRANCE - WTD
0021AE (base 16) ALCATEL-LUCENT FRANCE - WTD
7-9, Avenue Morane Saulnier
VELIZY 78141
FR

00-21-AF (hex) Radio Frequency Systems
0021AF (base 16) Radio Frequency Systems
Kabelkamp 20
Hannover 30179
DE

00-21-E6 (hex) Starlight Video Limited
0021E6 (base 16) Starlight Video Limited
5/F., Shing Dao Industrial Building,

HK

00-21-E0 (hex) CommAgility Ltd
0021E0 (base 16) CommAgility Ltd
Holywell Park
Loughborough Leics LE11 3AQ
GB

00-21-DE (hex) Firepro Wireless
0021DE (base 16) Firepro Wireless
27, Zamrudpur Community Center,
New Delhi Haryana 110020
IN

00-21-78 (hex) Matuschek Messtechnik GmbH
002178 (base 16) Matuschek Messtechnik GmbH
Werner Heisenberg Straße 14
Alsdorf NRW 52477
DE

00-21-73 (hex) Ion
Torrent Systems, Inc.
002173 (base 16) Ion Torrent Systems, Inc.
37 Soundview Rd
Guilford CT 06437
US

00-21-77 (hex) W. L. Gore & Associates
002177 (base 16) W. L. Gore & Associates
402 Vieves Way
Elkton MD 21921
US

00-21-72 (hex) Seoultek Valley
002172 (base 16) Seoultek Valley
Bang-i Dong 51-5, Songpa
Seoul 138-050
KR

00-21-69 (hex) Prologix, LLC.
002169 (base 16) Prologix, LLC.
17217 NE 133rd Place
Redmond Washington 98052-2153
US

00-21-C5 (hex) 3DSP Corp
0021C5 (base 16) 3DSP Corp
16271 Laguna Canyon Road
Irvine, CA 92618
US

00-21-A4 (hex) Dbii Networks
0021A4 (base 16) Dbii Networks
2217 Via Blanca
Oceanside CA 92054
US

00-21-99 (hex) Vacon Plc
002199 (base 16) Vacon Plc
P.O.Box 25
Vaasa 65380
FI

00-21-4B (hex) Shenzhen HAMP Science & Technology Co.,Ltd
00214B (base 16) Shenzhen HAMP Science & Technology Co.,Ltd
No.302-303,3
Floor,District A,TCL Tower,Gaoxin Nan Yi Road,NanShan District
Shenzhen Guangdong 518057
CN

00-21-45 (hex) Semptian Technologies Ltd.
002145 (base 16) Semptian Technologies Ltd.
No. 809, Tower B, Shi Ji Ke Mao
Beijing 100190
CN

00-21-3E (hex) TomTom International BV
00213E (base 16) TomTom International BV
Oosterdoksstraat 114
Amsterdam North Holland 1011 DK
NL

00-1F-FC (hex) Riccius+Sohn GmbH
001FFC (base 16) Riccius+Sohn GmbH
Haynauer Str. 49
Berlin 12249
DE

00-1F-FD (hex) Indigo Mobile Technologies Corp.
001FFD (base 16) Indigo Mobile Technologies Corp.
11F, No22, Lan407,TiDing Blvd Section2, Neihu Technology Park
Taipei City 114

TW

00-1F-EE (hex) ubisys technologies GmbH
001FEE (base 16) ubisys technologies GmbH
Am Wehrhahn 45
Düsseldorf NRW 40211
DE

00-1F-EF (hex) SHINSEI INDUSTRIES CO.,LTD
001FEF (base 16) SHINSEI INDUSTRIES
CO.,LTD
4-12-15,HORIFUNE, KITA-KU,
TOKOYO 114-0004
JP

00-1F-EC (hex) Synapse Électronique
001FEC (base 16) Synapse Électronique
1010, 7e Avenue
Grand-Mère Québec G9T 2B8
CA

00-1F-E8 (hex) KURUSUGAWA Electronics Industry Inc,.
001FE8 (base 16) KURUSUGAWA Electronics Industry Inc,.
2F, 52-5, Nogata 6chome
Nakano-Ku TOKYO 165-0027
JP

00-21-21 (hex) VRmagic GmbH
002121 (base 16) VRmagic GmbH
Augustaanlage 32
Mannheim BW 68165
DE

00-21-23 (hex) Aerosat Avionics
002123 (base 16) Aerosat Avionics
62 State Rd.
Amherst NH 03031
US

00-21-1B (hex) Cisco Systems, Inc
00211B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-21-07 (hex) Seowonintech Co Ltd.
002107 (base 16) Seowonintech Co Ltd.
689-47 Geumjeongdong

Gunposi Kyoungkido 436-862
KR

00-1F-FE (hex) HPN Supply Chain
001FFE (base 16) HPN Supply Chain
8000
Foothills Blvd
Roseville CA 95747
US

00-1F-FF (hex) Respironics, Inc.
001FFF (base 16) Respironics, Inc.
1740 Golden Mile Highway
Monroeville PA 15146
US

00-21-53 (hex) SeaMicro Inc.
002153 (base 16) SeaMicro Inc.
3250 Jay Street
Santa Clara CA 95054
US

00-21-54 (hex) D-TACQ Solutions Ltd
002154 (base 16) D-TACQ Solutions Ltd
James Watt Building
East Kilbride Lanarkshire G75 0QD
GB

00-21-3F (hex) A-Team Technology Ltd.
00213F (base 16) A-Team Technology Ltd.
Rm. 1608, 16/F., Metropole Square,
New Territories,
HK

00-21-2D (hex) SCIMOLEX CORPORATION
00212D (base 16) SCIMOLEX CORPORATION
2430, Saijou, Showa-cho
Nakakoma-gun, Yamanashi 409-3866
JP

00-21-0A (hex) byd:sign Corporation
00210A (base 16) byd:sign Corporation
2-10-6 Tsukiji
Chuo-ku Tokyo 104-0045
JP

00-1F-D7 (hex) TELERAD SA
001FD7 (base 16) TELERAD SA

2, avenue
de la butte aux cailles
ANGLET 64600
FR

00-1F-D3 (hex) RIVA Networks Inc.
001FD3 (base 16) RIVA Networks Inc.
555 Riva Ave
East Brunswick NJ 08816
US

00-1F-D5 (hex) MICRORISC s.r.o.
001FD5 (base 16) MICRORISC s.r.o.
Delnicka 222
Jicin kralovehradecky kraj 50601
CZ

00-1F-BB (hex) Xenatech Co.,LTD
001FBB (base 16) Xenatech Co.,LTD
514-2 Ya Tab-Dong Bun Dang Gu
Seong namsi Gyong gi-do 463-839
KR

00-1F-B1 (hex) Cybertech Inc.
001FB1 (base 16) Cybertech Inc.
935 Horsham Rd
Horsham PA 19044
US

00-1F-B2 (hex) Sontheim Industrie Elektronik GmbH
001FB2 (base 16) Sontheim Industrie Elektronik GmbH
Dieselstrasse 7
Kempten Allgaeu Bavaria D-87437
DE

00-1F-CA (hex) Cisco Systems, Inc
001FCA (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1F-C3 (hex) SmartSynch, Inc
001FC3 (base 16) SmartSynch, Inc
4400 Old Canton
Rd
Jackson MS 39211
US

00-1F-C1 (hex) Hanlong Technology Co.,LTD
001FC1 (base 16) Hanlong Technology Co.,LTD
2402 West Tower Building, Fuxin International Building,
Nanjing Jiangsu 210002
CN

00-1F-89 (hex) Signalion GmbH
001F89 (base 16) Signalion GmbH
Sudhausweg 5
Dresden Saxony 01099
DE

00-1F-8A (hex) Ellion Digital Inc.
001F8A (base 16) Ellion Digital Inc.
Suite 809, Sicox Tower, 513-14, Sangdaewon-dong, Jungwon-gu
Sungnam-city Kyonggi-do 426-726
KR

00-1F-7F (hex) Phabrix Limited
001F7F (base 16) Phabrix Limited
Blindmans Gate Cottage
Newbury Hampshire RG20 9XB
GB

00-1F-7C (hex) Witelcom AS
001F7C (base 16) Witelcom AS
Verftsgt 10
Moss Ostfold 1511
NO

00-1F-7A (hex) WiWide Inc.
001F7A (base 16) WiWide Inc.
10B10, Hua Jie Plaza
Beijing 100089
CN

00-1F-77 (hex) HEOL DESIGN
001F77 (base 16) HEOL DESIGN
1 bd d'armor
LANNION
BRETAGNE 22300
FR

00-1F-76 (hex) AirLogic Systems Inc.
001F76 (base 16) AirLogic Systems Inc.
3022 Peleke St.Suite 1
Lihu'e HI 96766
US

00-1F-73 (hex) Teraview Technology Co., Ltd.
001F73 (base 16) Teraview Technology Co., Ltd.
23F, No. 29-5, Sec. 2, Jhongjheng E. Road,
Taipei County 251
TW

00-1F-62 (hex) JSC Stilsoft
001F62 (base 16) JSC Stilsoft
Mayakovskogo 15
Stavropol 355000
RU

00-1F-67 (hex) Hitachi,Ltd.
001F67 (base 16) Hitachi,Ltd.
Minamioi 6-27-18, Shinagawa-ku
Tokyo Tokyo 140-8572
JP

00-1F-61 (hex) Talent Communication Networks Inc.
001F61 (base 16) Talent Communication Networks Inc.
Rm. 910 R&F Plaza, #76, Huangpu Ave. West,
Guangzhou (Canton) Guangdong Province 510360
CN

00-1F-56 (hex) DIGITAL FORECAST
001F56 (base 16) DIGITAL FORECAST
5th Fl., 507, E&C Venture Dream Tower III, 197-33
Seoul Gyunggi-do 152-719
KR

00-1F-E0 (hex) EdgeVelocity
Corp
001FE0 (base 16) EdgeVelocity Corp
68 Stiles Road
Hudson NH 03079
US

00-1F-D8 (hex) A-TRUST COMPUTER CORPORATION
001FD8 (base 16) A-TRUST COMPUTER CORPORATION
3F., NO.361, FUSING 1ST RD., GUEISHAN TOWNSHIP,
TAOYUAN 33375
TW

00-1F-AB (hex) I.S HIGH TECH.INC
001FAB (base 16) I.S HIGH TECH.INC
603-1,Sungbon-ri,Daeso-myun
Eumsung-gun Chungcheongbuk-do 369-823

KR

00-1F-AC (hex) Goodmill Systems Ltd
001FAC (base 16) Goodmill Systems Ltd
Sinikalliontie 10
Espoo Uusimaa 02630
FI

00-1F-8E (hex) Metris USA Inc.
001F8E (base 16) Metris USA Inc.
44880 Falcon Place ste 100
Sterling VA 20166
US

00-1F-44 (hex) GE Transportation Systems
001F44 (base 16) GE Transportation Systems
2901 East Lake Road
Erie PA 16501
US

00-1F-39 (hex) Construcciones y Auxiliar de Ferrocarriles, S.A.
001F39 (base 16) Construcciones y Auxiliar de Ferrocarriles,
S.A.
C/ J.M. Iturrioz, 26
Beasain Guipúzcoa E-20200
ES

00-1F-3D (hex) Qbit GmbH
001F3D (base 16) Qbit GmbH
Stegwiesenstrasse 32
Bruchsal Germany 76646
DE

00-1F-36 (hex) Bellwin Information Co. Ltd.,
001F36 (base 16) Bellwin Information Co. Ltd.,
No.336, Beitun Rd., Beitun Dist.,
Taichung 406
TW

00-1F-38 (hex) POSITRON
001F38 (base 16) POSITRON
ESTRADA TELEBRAS-UNICAMP, KM0,97 - CJ.01
CAMPINAS São Paulo 13084-971
BR

00-1F-2D (hex) Electro-Optical Imaging, Inc.
001F2D (base 16) Electro-Optical Imaging, Inc.
4300 Fortune Place, Suite C

West Melbourne FL 32904
US

00-1F-11 (hex) OPENMOKO, INC.
001F11 (base 16) OPENMOKO, INC.
7F, No 300, Yang Guang Street
Taipei 11491
TW

00-1F-03 (hex) NUM AG
001F03 (base 16) NUM AG
Battenhusstrasse 16
Teufen AR 9053
CH

00-1E-FD (hex) Microbit 2.0 AB
001EFD (base 16) Microbit 2.0 AB
Nystaden 1
KALIX
95261
SE

00-1E-D4 (hex) Doble Engineering
001ED4 (base 16) Doble Engineering
85 Walnut St
Watertown MA 02472
US

00-1E-D2 (hex) Ray Shine Video Technology Inc
001ED2 (base 16) Ray Shine Video Technology Inc
6F,No.98,Sec.1,Xintai 5th Rd.
Xizhi City Taipei County 221
TW

00-1E-CE (hex) BISA Technologies (Hong Kong) Limited
001ECE (base 16) BISA Technologies (Hong Kong) Limited
1102, Trans Asia Centre,
Kwai Chung,
HK

00-1E-C8 (hex) Rapid Mobile (Pty) Ltd
001EC8 (base 16) Rapid Mobile (Pty) Ltd
Building C,D,E Apex Corporate Park
Pretoria Gauteng 0020
ZA

00-1E-CC (hex) CDVI
001ECC (base 16) CDVI

31 Avenue du Général Leclerc
PANTIN Ile de France 93500
FR

00-1E-FF (hex) Mueller-Elektronik GmbH & Co. KG
001EFF (base 16) Mueller-Elektronik GmbH & Co. KG
Franz-Kleine-Str. 18
Salzkotten NRW 33154
DE

00-1F-05 (hex) iTAS Technology Corp.
001F05
(base 16) iTAS Technology Corp.
No. 75, Shuiyuan St.
Hsinchu City 30069
TW

00-1F-07 (hex) AZTEQ Mobile
001F07 (base 16) AZTEQ Mobile
Suite 210, 525 University Ave
Palo Alto CA 94301
US

00-1E-F6 (hex) Cisco Systems, Inc
001EF6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1E-F9 (hex) Pascom Kommunikations systeme GmbH.
001EF9 (base 16) Pascom Kommunikations systeme GmbH.
Technologiestr. 4
Arbing Upper Austria 4332
AT

00-1E-F3 (hex) From2
001EF3 (base 16) From2
2F, Mester inc
Daejeon 306-230
KR

00-1E-E7 (hex) Epic Systems Inc
001EE7 (base 16) Epic Systems Inc
390 S. Abbott Ave
Milpitas CA 95035
US

00-1E-E9 (hex) Stoneridge Electronics AB

001EE9 (base 16) Stoneridge Electronics AB
Gårdsfogdevägen 18A
Bromma Stockholm 168 66
SE

00-1E-E4 (hex) ACS Solutions France
001EE4 (base 16) ACS Solutions
France
Rue Claude Chappe
Guilherand Granges Ardeche 07503
FR

00-1F-2F (hex) Berker GmbH & Co. KG
001F2F (base 16) Berker GmbH & Co. KG
Klagebach 38
Schalksmuehle NRW 58579
DE

00-1F-32 (hex) Nintendo Co., Ltd.
001F32 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-1E-ED (hex) Adventiq Ltd.
001EED (base 16) Adventiq Ltd.
Technology House
Bar Hill Cambs. CB3 8SQ
GB

00-1F-52 (hex) UVT Unternehmensberatung fur Verkehr und Technik GmbH
001F52 (base 16) UVT Unternehmensberatung fur Verkehr und Technik GmbH
Josefsstraße 54-56
Mainz RLP 55118
DE

00-1F-4F (hex) Thinkware Co. Ltd.
001F4F (base 16) Thinkware Co. Ltd.
15FL, Hanmi Tower, 45,
Seoul 138-724
KR

00-1F-1C (hex) KOBISHI ELECTRIC Co.,Ltd.
001F1C (base 16) KOBISHI ELECTRIC Co.,Ltd.
1805-1
Kounosu-shi Saitama-ken 365-0027
JP

00-1F-19 (hex) BEN-RI
ELECTRONICA S.A.
001F19 (base 16) BEN-RI ELECTRONICA S.A.
POL. IND. VENTORRO DEL CANO
ALCORCON MADRID 28925
ES

00-1E-5F (hex) KwikByte, LLC
001E5F (base 16) KwikByte, LLC
2430 W. 12th Street
Tempe AZ 85281
US

00-1E-5B (hex) Unitron Company, Inc.
001E5B (base 16) Unitron Company, Inc.
10925 Miller Road
Dallas TX 75238
US

00-1E-5E (hex) COmputime Ltd.
001E5E (base 16) COmputime Ltd.
17/F Great Eagle Centre
Wanchai
HK

00-1E-54 (hex) TOYO ELECTRIC Corporation
001E54 (base 16) TOYO ELECTRIC Corporation
1-39 HIKISAWA
KASUGAI AICHI 480-0393
JP

00-1E-3C (hex) Lyngbox Media AB
001E3C (base 16) Lyngbox Media AB
Diskettgatan 11B
Linkoping SE-58335
SE

00-1E-C5 (hex) Middle Atlantic Products Inc
001EC5 (base 16) Middle Atlantic Products Inc
300 Fairfield Road
Fairfield NJ 07004
US

00-1E-BE (hex) Cisco Systems, Inc
001EBE (base
16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568

US

00-1E-C3 (hex) Kozio, Inc.
001EC3 (base 16) Kozio, Inc.
2015 Ionosphere Street
Longmont CO 80504
US

00-1E-BD (hex) Cisco Systems, Inc
001EBD (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1E-B9 (hex) Sing Fai Technology Limited
001EB9 (base 16) Sing Fai Technology Limited
No.700, Kaohsiung University Rd., Nan-Tzu Dist.
Kaohsiung 811
TW

00-1E-B7 (hex) TBTech, Co., Ltd.
001EB7 (base 16) TBTech, Co., Ltd.
1109, Hyundai Krim, 1330-18, Seocho-dong,
Seoul 137-070
KR

00-1E-4D (hex) Welkin Sciences, LLC
001E4D (base 16) Welkin Sciences, LLC
102 S. Tejon St, Suite 200
Colorado Springs CO 80903
US

00-1E-4B (hex) City Theatrical
001E4B (base 16) City Theatrical
475 Barell Ave
Carlstadt New Jersey 07072
US

00-1E-4A (hex) Cisco Systems, Inc
001E4A
(base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1E-92 (hex) JEULIN S.A.
001E92 (base 16) JEULIN S.A.
ZI N°1

Evreux F27019
FR

00-1E-91 (hex) KIMIN Electronic Co., Ltd.
001E91 (base 16) KIMIN Electronic Co., Ltd.
293-4, Dongdan-Dong
Gumi-city GyeongBuk 730-906
KR

00-1E-89 (hex) CRFS Limited
001E89 (base 16) CRFS Limited
Building 7200
Waterbeach Cambridgeshire CB25 9TL
GB

00-1E-86 (hex) MEL Co.,Ltd.
001E86 (base 16) MEL Co.,Ltd.
Tsukagoshi 5-5-1,Warabi-shi,Saitama,Japna
Warabi Saitama 335-0002
JP

00-1E-88 (hex) ANDOR SYSTEM SUPPORT CO., LTD.
001E88 (base 16) ANDOR SYSTEM SUPPORT CO., LTD.
Minami-Shinagawa 2-15-8
Sinagawa Tokyo 140-0004
JP

00-1E-9D (hex) Recall Technologies, Inc.
001E9D (base 16) Recall Technologies, Inc.
130 Enterprise Ave.
Palm Bay FL 32909
US

00-1E-95 (hex) SIGMALINK
001E95 (base 16) SIGMALINK
DooSan
VentureDigm 1028,
Anyang-City Kyunggi-do 431-070
KR

00-1E-93 (hex) CiriTech Systems Inc
001E93 (base 16) CiriTech Systems Inc
920 Hillview Ct
Milpitas CA 95035
US

00-1E-79 (hex) Cisco Systems, Inc
001E79 (base 16) Cisco Systems, Inc

80 West Tasman Drive
San Jose CA 94568
US

00-1E-76 (hex) Thermo Fisher Scientific
001E76 (base 16) Thermo Fisher Scientific
2215 Grand Avenue Parkway
Austin Texas 78728
US

00-1E-72 (hex) PCS
001E72 (base 16) PCS
2 HENRI FARMAN
LESCAR PYRENEES ATLANTIQUES 64230
FR

00-1E-69 (hex) Thomson Inc.
001E69 (base 16) Thomson Inc.
101 West 103rd Street
Indianapolis IN 46290-1102
US

00-1E-A2 (hex) Symx Systems, Inc.
001EA2 (base 16) Symx Systems, Inc.
6320 NW 84th Avenue
Miami Florida 33166
US

00-1E-A9 (hex) Nintendo Co., Ltd.
001EA9 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA,
MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-1E-9E (hex) ddm hopt + schuler Gmbh + Co. KG
001E9E (base 16) ddm hopt + schuler Gmbh + Co. KG
Koenigsberger Strasse 12
Rottweil Baden-Württemberg 78626
DE

00-1E-09 (hex) ZEFATEK Co.,LTD
001E09 (base 16) ZEFATEK Co.,LTD
326-4 Gasandong, Geumcheongu
Seoul 153-802
KR

00-1E-06 (hex) WIBRAIN

001E06 (base 16) WIBRAIN
306 JEI Plats B/D 459-11 Gasan-dong, Geumcheon-gu
SEOUL 153-803
KR

00-1E-0C (hex) Sherwood Information Partners, Inc.
001E0C (base 16) Sherwood Information Partners, Inc.
1120 W, 122nd Ave, Ste 300
Westminster CO 80234
US

00-1E-02 (hex) Sougou Keikaku Kougyou Co.,Ltd.
001E02 (base 16) Sougou Keikaku Kougyou Co.,Ltd.
HK2 bld. 2-21-10
Suginamiku Tokyo 167-0053
JP

00-1E-01 (hex) Renesas Technology Sales Co., Ltd.
001E01 (base 16) Renesas Technology Sales Co., Ltd.
2-6-2
Chiyoda-ku Tokyo 100-0004
JP

00-1D-FF
(hex) Network Critical Solutions Ltd
001DFF (base 16) Network Critical Solutions Ltd
12B Southview Park
Reading Berkshire RG45AF
GB

00-1E-00 (hex) Shantou Institute of Ultrasonic Instruments
001E00 (base 16) Shantou Institute of Ultrasonic Instruments
No.77, Jinsha Road,
Shantou Guangdong 515041
CN

00-1D-F3 (hex) SBS Science & Technology Co., Ltd
001DF3 (base 16) SBS Science & Technology Co., Ltd
W2-B5/6 High-tech industrial park
ShenZhen GuangDong 518057
CN

00-1D-DD (hex) DAT H.K. LIMITED
001DDD (base 16) DAT H.K. LIMITED
Suite 1405 14/F., City Plaza 4, Tai Koo Wan Rd,
Tai Koo Shing Hong Kong Island 064828
HK

00-1D-E4 (hex) Visioneered Image Systems
001DE4 (base 16) Visioneered Image Systems
10561 Garden Grove Blvd
Garden Grove California 92843
US

00-1D-E2 (hex) Radionor Communications
001DE2 (base 16) Radionor Communications
Ingvald Ystgaards
veg 23
Trondheim TRD 7046
NO

00-1D-D7 (hex) Algolith
001DD7 (base 16) Algolith
400 Isabey
Saint-Laurent Qc H4T 1V3
CA

00-1D-C9 (hex) GainSpan Corp.
001DC9 (base 16) GainSpan Corp.
P.O. Box 223580
Carmel CA 93922
US

00-1D-EE (hex) NEXTVISION SISTEMAS DIGITAIS DE TELEVISÃO LTDA.
001DEE (base 16) NEXTVISION SISTEMAS DIGITAIS DE TELEVISÃO LTDA.
Alameda Rio Negro, 1030 - 19o. andar conj. 1904
Barueri São Paulo 06454-000
BR

00-1D-EA (hex) Commtest Instruments Ltd
001DEA (base 16) Commtest Instruments Ltd
Level 2, 22 Moorhouse Ave
Christchurch Canterbury 8243
NZ

00-1D-C7 (hex) L-3 Communications Geneva Aerospace
001DC7 (base 16) L-3 Communications Geneva Aerospace
4240 International Parkway
Carrollton Texas 75007
US

00-1E-2C (hex) CyVerse Corporation
001E2C (base 16) CyVerse Corporation
Shoutou Roukubankan Bldg. 4F
Shibuya-ku Tokyo 150-0046
JP

00-1E-26
(hex) Digifriends Co. Ltd
001E26 (base 16) Digifriends Co. Ltd
Joyang B/D 6th Floor
Seoul 135-090
KR

00-1E-23 (hex) Electronic Educational Devices, Inc
001E23 (base 16) Electronic Educational Devices, Inc
1903 S Grant St
Denver CO 80210
US

00-1D-B6 (hex) BestComm Networks, Inc.
001DB6 (base 16) BestComm Networks, Inc.
4400 E. Broadway Blvd.
Tucson AZ 85711
US

00-1D-AC (hex) Gigamon Systems LLC
001DAC (base 16) Gigamon Systems LLC
598 Gibraltar Drive
Milpitas CA 95035
US

00-1D-A2 (hex) Cisco Systems, Inc
001DA2 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1D-99 (hex) Cyan Optic, Inc.
001D99 (base 16) Cyan Optic, Inc.
1390 N. McDowell Blvd
Petaluma CA 94954
US

00-1D-9B (hex) Hokuyo Automatic Co., Ltd.
001D9B (base 16) Hokuyo Automatic Co., Ltd.
Niitaka 1-10-9
Osaka 532-0033
JP

00-1D-BC (hex) Nintendo
Co., Ltd.
001DBC (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU

KYOTO KYOTO 601-8501
JP

00-1E-13 (hex) Cisco Systems, Inc
001E13 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1E-0D (hex) Micran Ltd.
001E0D (base 16) Micran Ltd.
Vershinina st. 47
Tomsk Tomsk Region 634034
RU

00-1D-1C (hex) Gennet s.a.
001D1C (base 16) Gennet s.a.
2 Mesogeion ave.
Athens Attiki 11527
GR

00-1D-15 (hex) Shenzhen Dolphin Electronic Co., Ltd
001D15 (base 16) Shenzhen Dolphin Electronic Co., Ltd
Building21,Baoyuan, No.1 Industrial Zone,
Shenzhen Guangdong 518103
CN

00-1D-16 (hex) SFR
001D16 (base 16) SFR
40/42 Quai du point du jour
Boulongne Billancourt Hauts de Seine 92659
FR

00-1D-11 (hex) Analogue & Micro Ltd
001D11 (base 16) Analogue & Micro Ltd
Lakeside House
Llantarnam Industrial Park Cwmbran
NP44 3XS
GB

00-1D-12 (hex) ROHM CO., LTD.
001D12 (base 16) ROHM CO., LTD.
21 Saiin-Mizosaki-cho,
Kyoto-shi KYOTO 615-8585
JP

00-1D-86 (hex) Shinwa Industries(China) Ltd.
001D86 (base 16) Shinwa Industries(China) Ltd.

8 Pingnanzhong Road, Pingnan Industrial Park, Zhongkai No.4 Road,
Huizhou City Guangdong Province 516006
CN

00-1D-88 (hex) Clearwire
001D88 (base 16) Clearwire
1475 120th Ave NE
Bellevue Washington 98005
US

00-1D-81 (hex) GUANGZHOU GATEWAY ELECTRONICS CO., LTD
001D81 (base 16) GUANGZHOU GATEWAY ELECTRONICS CO., LTD
B20#,4F,No.9 Jiangong Road,Tianhe Software Park,Tianhe District,
GUANGZHOU Guangdong 510665
CN

00-1D-49 (hex) Innovation Wireless Inc.
001D49 (base 16) Innovation Wireless Inc.
4F-1, NO.81, SHUEILI RD.
HSINCHU 30059
TW

00-1D-46 (hex) Cisco Systems, Inc
001D46 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1D-48
(hex) Sensor-Technik Wiedemann GmbH
001D48 (base 16) Sensor-Technik Wiedemann GmbH
Am Bärenwald 6
Kaufbeuren Bayern 87600
DE

00-1D-47 (hex) Covote GmbH & Co KG
001D47 (base 16) Covote GmbH & Co KG
Ritterhufen 30
Berlin 14165
DE

00-1D-41 (hex) Hardy Instruments
001D41 (base 16) Hardy Instruments
3860 Calle Fortunada
San Diego CA 92123
US

00-1D-3D (hex) Avidyne Corporation

001D3D (base 16) Avidyne Corporation
202 West Dr
Melbourne FL 32904
US

00-1D-3C (hex) Muscle Corporation
001D3C (base 16) Muscle Corporation
2-5-35, Kikawa-higashi
Osaka 532-0012
JP

00-1D-3A (hex) mh acoustics LLC
001D3A (base 16) mh acoustics LLC
25A Summit Ave
Summit NJ 07901
US

00-1D-35 (hex) Viconics Electronics Inc.
001D35 (base 16) Viconics Electronics Inc.
9245 Langelier
Saint Leonard Quebec H1P3K9
CA

00-1D-31 (hex) HIGHPRO INTERNATIONAL
R&D CO,.LTD.
001D31 (base 16) HIGHPRO INTERNATIONAL R&D CO,.LTD.
3F,No.295,RuiGuang Rd,Nei Hu,
Taipei 114
TW

00-1D-66 (hex) Hyundai Telecom
001D66 (base 16) Hyundai Telecom
Hyundai Telecom Bldg., 4273-12, Shingil-Dong, Youngdungpo-Gu,
Seoul 150-859
KR

00-1D-77 (hex) NSGate
001D77 (base 16) NSGate
Rm 1304, 39 Kirpichnaya Street
Moscow 105187
RU

00-1D-76 (hex) Eyeheight Ltd.
001D76 (base 16) Eyeheight Ltd.
Unit 34, Park House
Watford Herts WD18 8PH
GB

00-1D-7A (hex) Wideband Semiconductor, Inc.
001D7A (base 16) Wideband Semiconductor, Inc.
1350 Pear Ave
Mountain View CA 94043
US

00-1D-68 (hex) Thomson Telecom Belgium
001D68 (base 16) Thomson Telecom Belgium
Prins Boudewijnlaan 47
Edegem Antwerp B-2650
BE

00-1D-61 (hex) BIJ Corporation
001D61 (base 16) BIJ Corporation
7F Takamizawa Building,2-7-10,
Yokohama Kanagawa 220-0004
JP

00-1D-5C
(hex) Tom Communication Industrial Co.,Ltd.
001D5C (base 16) Tom Communication Industrial Co.,Ltd.
1173 Nippa-choh Kohoku-ku
Yokohama Kanagawa 223-0057
JP

00-1D-89 (hex) VaultStor Corporation
001D89 (base 16) VaultStor Corporation
1010 Brioso Drive
Costa Mesa CA 92627
US

00-1D-26 (hex) Rockridgesound Technology Co.
001D26 (base 16) Rockridgesound Technology Co.
Fumin Industrial Park, Houjie Town
Dong Guan Guang Dong 523956
CN

00-1D-21 (hex) Alcad SL
001D21 (base 16) Alcad SL
Pol. Ind. Arreche-Ugalde, 1
Irún Guipúzcoa E-20305
ES

00-1D-56 (hex) Kramer Electronics Ltd.
001D56 (base 16) Kramer Electronics Ltd.
3 Am VeOlamo Street
Jerusalem 95463
IL

00-1D-4E (hex) TCM Mobile LLC
001D4E (base 16) TCM Mobile LLC
9218 Metcalf,
Overland Park Kansas 66212
US

00-1C-E1 (hex) INDRA SISTEMAS, S.A.
001CE1 (base 16) INDRA SISTEMAS, S.A.
Ctra.
de Loeches, n.º 9
Torrejón de Ardoz MADRID 28850
ES

00-1C-E0 (hex) DASAN TPS
001CE0 (base 16) DASAN TPS
HUMAX Village 6F, 11-4 Sunae-dong, Bundang-gu
Seongnam-si Gyeonggi-do 463-825
KR

00-1C-D9 (hex) GlobalTop Technology Inc.
001CD9 (base 16) GlobalTop Technology Inc.
16 Nan-ke 9th Rd. Science-base Industrial Park,
ShanHua Tainan county 741
TW

00-1C-DA (hex) Exegin Technologies Limited
001CDA (base 16) Exegin Technologies Limited
401 - 2071 Kingsway Avenue
Port Coquitlam BC V3C 6N2
CA

00-1C-8E (hex) Alcatel-Lucent IPD
001C8E (base 16) Alcatel-Lucent IPD
701 E. Middlefield Rd.
Mountain View CA 94043
US

00-1C-8F (hex) Advanced Electronic Design, Inc.
001C8F (base 16) Advanced Electronic Design, Inc.
344 John L Dietsch Blvd., Unit #2
North Attleboro MA 02763
US

00-1C-88 (hex) TRANSYSTEM INC.
001C88 (base 16) TRANSYSTEM INC.
No. 1-2, Li-Hsin Rd 1,

Science-Based Industrial Park
Hsinchu 300
TW

00-1C-86 (hex) Cranite Systems, Inc.
001C86 (base 16) Cranite Systems, Inc.
121 Albright Way
Los Gatos CA 95032
US

00-1C-7F (hex) Check Point Software Technologies
001C7F (base 16) Check Point Software Technologies
3A Jabotinsky St.
Ramat Gan 52520
IL

00-1C-99 (hex) Shunra Software Ltd.
001C99 (base 16) Shunra Software Ltd.
20 Hata'as St.
Kefar-Saba 44425
IL

00-1C-9B (hex) FEIG ELECTRONIC GmbH
001C9B (base 16) FEIG ELECTRONIC GmbH
Lange Straße 4
Weilburg Hessen 35781
DE

00-1C-95 (hex) Opticomm Corporation
001C95 (base 16) Opticomm Corporation
6827 Nancy Ridge Dr
San Diego CA 92121
US

00-1C-97 (hex) Enzytek Technology Inc.,
001C97 (base 16) Enzytek Technology Inc.,
7F, No.35, Hsueh Fu Rd.,
Hsinchu 300,
TW

00-1C-90 (hex) Empacket Corporation
001C90 (base 16) Empacket Corporation
2-6-3
Nishi-Gotanda
Shinagawa Tokyo 141-0031
JP

00-1C-F1 (hex) SUPoX Technology Co. , LTD.

001CF1 (base 16) SUPoX Technology Co. , LTD.
7F, 419 , Chung San Rd. , Sec 2
Chung Ho Taipei Hsien 235
TW

00-1C-F3 (hex) EVS BROADCAST EQUIPMENT
001CF3 (base 16) EVS BROADCAST EQUIPMENT
Liege Science Park
Ougree Liege 4102
BE

00-1C-F4 (hex) Media Technology Systems Inc
001CF4 (base 16) Media Technology Systems Inc
766 Lakefield Road
Westlake Village CA 91377
US

00-1C-E6 (hex) INNES
001CE6 (base 16) INNES
80 avenue des Buttes de Coësmes
RENNES 35700
FR

00-1C-78 (hex) WYPLAY SAS
001C78 (base 16) WYPLAY SAS
200 avenue de Provence
ALLAUCH BdR 13190
FR

00-1C-6E (hex) Newbury Networks, Inc.
001C6E (base 16) Newbury Networks, Inc.
419 Boylston Street
Boston MA 02116
US

00-1C-6B (hex) COVAX Co. Ltd
001C6B (base 16) COVAX Co. Ltd
3-27-22 kitahanada-cho
kitaku
sakai-shi oosaka 591-8002
JP

00-1C-A3 (hex) Terra
001CA3 (base 16) Terra
Draugystes str. 22
Kaunas LT-51256
LT

00-1C-A6 (hex) Win4NET
001CA6 (base 16) Win4NET
1301 KOLON Digital Tower,
Kuro-gu Seoul 152-848
KR

00-1C-A9 (hex) Audiomatica Srl
001CA9 (base 16) Audiomatica Srl
Via Manfredi 12
Florence Italy 50136
IT

00-1C-D2 (hex) King Champion (Hong Kong) Limited
001CD2 (base 16) King Champion (Hong Kong) Limited
Unit 1520, 15/F, Phase 1, Metro Centre,
Kowloon
HK

00-1C-CE (hex) By Techdesign
001CCE (base 16) By Techdesign
C/ Tomas Edison 5
Arganda del Rey Madrid 28500
ES

00-1D-03 (hex) Design Solutions Inc.
001D03 (base 16) Design Solutions Inc.
81 David Love Place
Goleta Ca 93117
US

00-1C-F9 (hex) Cisco Systems, Inc
001CF9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1C-B9
(hex) KWANG SUNG ELECTRONICS CO., LTD.
001CB9 (base 16) KWANG SUNG ELECTRONICS CO., LTD.
201, WORLD VENTURE TOWN 60-24, GASAN-DONG GEUMCHUN-GU,
SEOUL 153-801
KR

00-1C-58 (hex) Cisco Systems, Inc
001C58 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1C-5A (hex) Advanced Relay Corporation
001C5A (base 16) Advanced Relay Corporation
1896 Columbia St
Eugene OR 97403
US

00-1C-4F (hex) MACAB AB
001C4F (base 16) MACAB AB
Vannhögsgatan 7
Trelleborg 23166
SE

00-1C-4E (hex) TASA International Limited
001C4E (base 16) TASA International Limited
5FÃ,Â£Ã,Â¬Building2Ã,Â£Ã,Â¬No.1295 ,Xin Jinqiao Road,
Shanghai 201206
CN

00-1C-4B (hex) Gener8, Inc.
001C4B (base 16) Gener8, Inc.
897 Independence Ave
Mountain View CA 94043
US

00-1C-18 (hex) Sicert S.r.L.
001C18 (base 16) Sicert S.r.L.
Via Bernardino Alimena, 128
Rome
00173
IT

00-1C-1A (hex) Thomas Instrumentation, Inc
001C1A (base 16) Thomas Instrumentation, Inc
133 Landing Rd
Cape May Court House NJ 08210
US

00-1C-0E (hex) Cisco Systems, Inc
001C0E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1C-13 (hex) OPTSYS TECHNOLOGY CO., LTD.
001C13 (base 16) OPTSYS TECHNOLOGY CO., LTD.
SUITE B-802 BUNDANG TECHNO PARK
SEONGNAM-SI GYEONGGI-DO 463-760

KR

00-1C-0B (hex) SmartAnt Telecom
001C0B (base 16) SmartAnt Telecom
2F, No. 669, Sec. 4, Chung Hsing Rd., Chutung
Hsinchu 310
TW

00-1C-21 (hex) Nucsafe Inc.
001C21 (base 16) Nucsafe Inc.
601 Oak Ridge Turnpike
Oak Ridge Tennessee 37830
US

00-1C-1E (hex) emtrion GmbH
001C1E (base 16) emtrion GmbH
Alter Schlachthof 45
Karlsruhe Baden Wuerttemberg 76131
DE

00-1C-40 (hex) VDG-Security bv
001C40 (base 16) VDG-Security bv
Radonstraat 10-14
Zoetermeer
ZH 2718 TA
NL

00-1C-3A (hex) Element Labs, Inc.
001C3A (base 16) Element Labs, Inc.
3350 Scott Boulevard
Santa Clara CA 95054
US

00-1C-3D (hex) WaveStorm
001C3D (base 16) WaveStorm
Rue d'Oradour-sur-Glâne
Paris ÃƒÅ½le-de-France 75015
FR

00-1C-08 (hex) Echo360, Inc.
001C08 (base 16) Echo360, Inc.
11955 Freedom Drive
Reston VA 20190
US

00-1B-F4 (hex) KENWIN INDUSTRIAL(HK) LTD.
001BF4 (base 16) KENWIN INDUSTRIAL(HK) LTD.
RM.1512 15/F SHATIN GALLERIA

HK

00-1B-F9 (hex) Intellitect Water Ltd
001BF9 (base 16) Intellitect Water Ltd
Suite 19, Basepoint Business Centre
Christchurch Dorset BH23 ^NW
GB

00-1B-FA (hex) G.i.N. mbH
001BFA (base 16) G.i.N. mbH
Raiffeisenstraße 15
Griesheim Hessen 64347
DE

00-1B-F3 (hex) TRANSRADIO SenderSysteme Berlin AG
001BF3 (base 16) TRANSRADIO SenderSysteme Berlin AG
Mertensstrasse 63
Berlin
13587
DE

00-1B-DE (hex) Renkus-Heinz, Inc.
001BDE (base 16) Renkus-Heinz, Inc.
19201 Cook St.
Foothill Ranch CA 92610
US

00-1B-DB (hex) Valeo VECS
001BDB (base 16) Valeo VECS
2 Avenue Fernand Pouillon
CRETEIL Ile de France 94042
FR

00-1C-69 (hex) Packet Vision Ltd
001C69 (base 16) Packet Vision Ltd
SC House
Maidenhead Berks SL6 4UB
GB

00-1C-65 (hex) JoeScan, Inc.
001C65 (base 16) JoeScan, Inc.
4510 NE 68th Dr, Ste. 124
Vancouver WA 98661
US

00-1C-5F (hex) Winland Electronics, Inc.
001C5F (base 16) Winland Electronics, Inc.

1950 Excel Drive
Mankato MN 56001
US

00-1C-2D (hex) FlexRadio Systems
001C2D (base 16) FlexRadio Systems
8900 Marybank Dr.
Austin TX 78750
US

00-1C-2C (hex) Synapse
001C2C (base 16) Synapse
132 Export Circle
Huntsville AL 35806
US

00-1B-D8 (hex) FLIR Systems Inc
001BD8 (base 16) FLIR Systems
Inc
65 Challenger Road
Ridgefield Park NJ 07660-2103
US

00-1B-D4 (hex) Cisco Systems, Inc
001BD4 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1B-D0 (hex) IDENTEC SOLUTIONS
001BD0 (base 16) IDENTEC SOLUTIONS
Hertzstraße 10
Weinheim 69469
DE

00-1B-CD (hex) DAVISCOMMS (S) PTE LTD
001BCD (base 16) DAVISCOMMS (S) PTE LTD
Blk 70 Ubi Crescent #01-07
408570
SG

00-1B-CA (hex) Beijing Run Technology LTD. Company
001BCA (base 16) Beijing Run Technology LTD. Company
4/F, Hangtian Technology Building
Beijing 100037
CN

00-1B-CC (hex) KINGTEK CCTV ALLIANCE CO., LTD.

001BCC (base 16) KINGTEK CCTV ALLIANCE CO., LTD.
5F-3, NO. 106, SEC. 3, HSIN YI ROAD
TAIPEI 106
TW

00-1B-51 (hex) Vector Technology Corp.
001B51 (base 16) Vector Technology Corp.
No.7, Lane12, Yajou Road.
Tucheng Taipei 236
TW

00-1B-54 (hex) Cisco
Systems, Inc
001B54 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1B-4A (hex) W&W Communications, Inc.
001B4A (base 16) W&W Communications, Inc.
2903 Bunker Hill Lane
Santa Clara CA 95054
US

00-1B-C8 (hex) MIURA CO.,LTD
001BC8 (base 16) MIURA CO.,LTD
620-1,Nakanishisoto
Matsuyama Ehime 799-2425
JP

00-1B-C1 (hex) HOLUX Technology, Inc.
001BC1 (base 16) HOLUX Technology, Inc.
1F, No. 30, R&D Rd. II,
Hsinchu 300
TW

00-1B-BC (hex) Silver Peak Systems, Inc.
001BBC (base 16) Silver Peak Systems, Inc.
471 El Camino Real
Santa Clara CA 95050
US

00-1B-AB (hex) Telchemy, Incorporated
001BAB (base 16) Telchemy, Incorporated
2905 Premiere Parkway
Duluth GA 30097
US

00-1B-AE (hex) Micro Control Systems, Inc
001BAE (base 16) Micro Control Systems, Inc
5580 Enterprise Parkway
Fort Myers Florida 33905
US

00-1B-A8
(hex) UBI&MOBI,.Inc
001BA8 (base 16) UBI&MOBI,.Inc
3F, Duido Bldg, #288-5, Yangjae-Dong
Seocho-Gu Seoul 137-130
KR

00-1B-83 (hex) Finsoft Ltd
001B83 (base 16) Finsoft Ltd
16-18 Hatton Garden
London EC1N 8AT
GB

00-1B-81 (hex) DATAQ Instruments, Inc.
001B81 (base 16) DATAQ Instruments, Inc.
241 Springside Drive
Akron Ohio 44333
US

00-1B-7D (hex) CXR Anderson Jacobson
001B7D (base 16) CXR Anderson Jacobson
Rue de l'ornette
Abondant 28410
FR

00-1B-79 (hex) FAIVELEY TRANSPORT
001B79 (base 16) FAIVELEY TRANSPORT
ZI du bois de plante
LA VILLE AUX DAMES 37700
FR

00-1B-65 (hex) China Gridcom Co., Ltd
001B65 (base 16) China Gridcom Co., Ltd
21/F, Huaneng Building, No. 2068 Shennan Main Road
Shenzhen Guangdong 0086
CN

00-1B-64 (hex) IsaacLandKorea Co., Ltd,
001B64 (base 16) IsaacLandKorea Co., Ltd,
Rm 608, Hangang-Hyundai-Hyel Bldg. 2-36,
Seoul

140-871
KR

00-1B-88 (hex) Divinet Access Technologies Ltd
001B88 (base 16) Divinet Access Technologies Ltd
4th Floor, Media Center,
Pune Maharashtra 411007
IN

00-1B-71 (hex) Telular Corp.
001B71 (base 16) Telular Corp.
311 South Wacker Drive
Chicago IL 60606
US

00-1B-73 (hex) DTL Broadcast Ltd
001B73 (base 16) DTL Broadcast Ltd
Johnson's Estate
HAYES Middlesex UB3 3BA
GB

00-1B-A0 (hex) Awox
001BA0 (base 16) Awox
93, Place Pierre Duhem,
Montpellier Herault 34000
FR

00-1B-97 (hex) Violin Technologies
001B97 (base 16) Violin Technologies
33 Wood Ave South
Iselin NJ 08830
US

00-1B-35 (hex) ChongQing JINOU Science & Technology Development CO.,Ltd
001B35 (base 16) ChongQing JINOU Science & Technology Development CO.,Ltd
Chuangyeyuan 208# Keyuan 3rd Road 106#
Chongqing 400030
CN

00-1B-36 (hex) Tsubata Engineering Co.,Ltd. (Head Office)
001B36
(base 16) Tsubata Engineering Co.,Ltd. (Head Office)
Koyanagi 1-2
Ibaraki Osaka 567-0852
JP

00-1B-39 (hex) Proxicast
001B39 (base 16) Proxicast

312 Sunnyfield Drive
Glenshaw PA 15116
US

00-1B-3B (hex) Yi-Qing CO., LTD
001B3B (base 16) Yi-Qing CO., LTD
310 ROOM,12F
TAIPEI 100
TW

00-1B-1C (hex) Coherent
001B1C (base 16) Coherent
1280 Blues Hills Ave.
Bloomfield CT 06002
US

00-1B-22 (hex) Palit Microsystems (H.K.) Ltd.
001B22 (base 16) Palit Microsystems (H.K.) Ltd.
Room 4-6,11F,Nan Fung Commercial Center
Kowloon 111
HK

00-1B-19 (hex) IEEE I&M Society TC9
001B19 (base 16) IEEE I&M Society TC9
100 Bureau Dr., Mail Stop 8220
Gaithersburg MD 20899-8220
US

00-1B-13 (hex) Icron Technologies Corporation
001B13 (base 16) Icron Technologies Corporation
221 - 4664 Lougheed Highway
Burnaby BC V5C 5T5
CA

00-1A-FA (hex) Welch Allyn, Inc.
001AFA
(base 16) Welch Allyn, Inc.
4619 Jordan Road
Skaneateles Falls NY 13153-0187
US

00-1A-F7 (hex) dataschalt e+a GmbH
001AF7 (base 16) dataschalt e+a GmbH
An der Hülshorst 7-9
Lübeck 23568
DE

00-1A-F3 (hex) Samyoung Electronics

001AF3 (base 16) Samyoung Electronics
146-1, sangdaewon-dong, joongwon-gu
sungnam-shi Gyunggi-do 462-807
KR

00-1A-EF (hex) Loopcomm Technology, Inc.
001AEF (base 16) Loopcomm Technology, Inc.
18F-1, No. 150, Jian Yi Rd.,
Chung-Ho City Taipei Hsien 235
TW

00-1A-EC (hex) Keumbee Electronics Co.,Ltd.
001AEC (base 16) Keumbee Electronics Co.,Ltd.
3-26, Jangsang-dong, Sangrok-gu
Ansan-si Kyungki-do 426-410
KR

00-1B-44 (hex) SanDisk Corporation
001B44 (base 16) SanDisk Corporation
601 McCarthy Boulevard
Milpitas CA 95035
US

00-1B-46 (hex) Blueone Technology Co.,Ltd
001B46 (base 16) Blueone Technology Co.,Ltd
Room 309,3
Floor, 404 Building, ShangBu industrial
Shenzhen Guangdong 518028
CN

00-1B-40 (hex) Network Automation mxc AB
001B40 (base 16) Network Automation mxc AB
Box 7294
Stockholm 10390
SE

00-1B-42 (hex) Wise & Blue
001B42 (base 16) Wise & Blue
#715-3 Anyang Megavalley
Anyang-Si Gyunggi-Do 431-767
KR

00-1A-BA (hex) Caton Overseas Limited
001ABA (base 16) Caton Overseas Limited
Room 102, No. 101, Lane 91
Shanghai 200127
CN

00-1A-B3 (hex) VISIONITE INC.
001AB3 (base 16) VISIONITE INC.
#707 Daeryung Technotown-2 569-21
Seoul 153-771
KR

00-1B-26 (hex) RON-Telecom ZAO
001B26 (base 16) RON-Telecom ZAO
15 A, Zarechnaya st.
Trehgorny Chelyabinsk region 456080
RU

00-1B-20 (hex) TPine Technology
001B20 (base 16) TPine Technology
3F, No.1, AN-I Rd,
Keelung 111
TW

00-1A-CA (hex) Tilera Corporation
001ACA (base 16) Tilera Corporation
1900 West
Park Drive
Westborough MA 01581
US

00-1A-B9 (hex) PMC
001AB9 (base 16) PMC
56, avenue Raspail
Saint Maur 94100
FR

00-1B-0F (hex) Petratec
001B0F (base 16) Petratec
12 Derech HaSharon
Kfar Saba Sharon 44271
IL

00-1A-D1 (hex) FARGO CO., LTD.
001AD1 (base 16) FARGO CO., LTD.
4F. KYEMYUNG B/D
SEOUL 135 885
KR

00-1A-3E (hex) Faster Technology LLC
001A3E (base 16) Faster Technology LLC
1812 Avenue D
Katy Texas 77493
US

00-1A-3A (hex) Dongahelecomm
001A3A (base 16) Dongahelecomm
678-3,Jeil-ri,Yanggi-myun,Cheoin-gu
Yongin-si Gyeonggi-do 449-821
KR

00-1A-3B (hex) Doah Elecom Inc.
001A3B (base 16) Doah Elecom Inc.
8th fl. Century Plaza, 277-40
Seoul 133-123
KR

00-1A-3C (hex) Technowave Ltd.
001A3C (base 16) Technowave Ltd.
Sakurai Bldg.1F,
Musashino-shi Tokyo 180-0006
JP

00-1A-40 (hex) A-FOUR TECH CO., LTD.
001A40 (base
16) A-FOUR TECH CO., LTD.
6F, No. 108, Min-Chuan Rd.,
Hsin-Tien Taipei 23141
TW

00-1A-8C (hex) Sophos Ltd
001A8C (base 16) Sophos Ltd
The Pentagon
Abingdon Oxfordshire OX14 3YP
GB

00-1A-91 (hex) FusionDynamic Ltd.
001A91 (base 16) FusionDynamic Ltd.
1 B.S.R. towers, 4-th floor
Ramat Gan 52573
IL

00-1A-84 (hex) V One Multimedia Pte Ltd
001A84 (base 16) V One Multimedia Pte Ltd
Blk 54, Kallang Bahru
339336
SG

00-1A-6D (hex) Cisco Systems, Inc
001A6D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568

US

00-1A-6E (hex) Impro Technologies
001A6E (base 16) Impro Technologies
47B Gillits Rd
Pinetown KwaZulu-Natal 3610
ZA

00-1A-6C (hex) Cisco Systems, Inc
001A6C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1A-63 (hex) Elster Solutions, LLC,
001A63 (base 16) Elster Solutions, LLC,
208
South Rogers Lane
Raleigh NC 27610
US

00-1A-A9 (hex) FUJIAN STAR-NET COMMUNICATION CO.,LTD
001AA9 (base 16) FUJIAN STAR-NET COMMUNICATION CO.,LTD
19-22# Building, Star-net Science Plaza, Juyuanzhou,
FUZHOU FUJIAN 350002
CN

00-1A-A8 (hex) Mamiya Digital Imaging Co., Ltd.
001AA8 (base 16) Mamiya Digital Imaging Co., Ltd.
2-2, 1-chome, Koraku
Bunkyo-ku Tokyo 112-0004
JP

00-1A-99 (hex) Smarty (HZ) Information Electronics Co., Ltd
001A99 (base 16) Smarty (HZ) Information Electronics Co., Ltd
Yonghua Industrial District,Huishen Road,Zhenlong Town
HuiZhou GuangDong 516227
CN

00-1A-7B (hex) Teleco, Inc.
001A7B (base 16) Teleco, Inc.
430 Woodruff Rd.
Greenville SC 29607
US

00-1A-96 (hex) ECLER S.A.
001A96 (base 16) ECLER S.A.
Motors 166-168

Barcelona 08038
ES

00-1A-46 (hex) Digital Multimedia Technology Co., Ltd
001A46 (base 16) Digital Multimedia Technology
Co., Ltd
Doorim Bldg, 3rd Fl, 164-21 Poi-Dong,
Seoul Kangnam-Gu 135-960
KR

00-1A-4A (hex) Qumranet Inc.
001A4A (base 16) Qumranet Inc.
530 Lakeside Drive
Sunnyvale California 94085
US

00-1A-59 (hex) Ircona
001A59 (base 16) Ircona
Unit 4B-1, Corporate Park
Blanchardstown Dublin 15
IE

00-1A-01 (hex) Smiths Medical
001A01 (base 16) Smiths Medical
4350 Rivergreen Parkway
Duluth GA 30096
US

00-19-FE (hex) SHENZHEN SEECOMM TECHNOLOGY CO.,LTD.
0019FE (base 16) SHENZHEN SEECOMM TECHNOLOGY CO.,LTD.
Room 609,404Yannan Road
ShenZhen Guangdong
CN

00-19-CD (hex) Chengdu ethercom information technology Ltd.
0019CD (base 16) Chengdu ethercom information technology Ltd.
South Extension of Tianfu Wide Road No.7 department room 201
Chengdu Sichuan 610041
CN

00-19-D9 (hex) Zeutschel GmbH
0019D9 (base 16) Zeutschel GmbH
Heerweg 2
Tübingen-Hirschau BW D-72070
DE

00-19-CA

(hex) Broadata Communications, Inc
0019CA (base 16) Broadata Communications, Inc
2545 W 237th St Ste K
Torrance CA 90505
US

00-19-D3 (hex) TRAK Microwave
0019D3 (base 16) TRAK Microwave
4726 Eisenhower Blvd
Tampa FL 33634
US

00-19-C3 (hex) Qualitrol
0019C3 (base 16) Qualitrol
Wildflower Way
Belfast Co. Antrim BT12 6TA
GB

00-1A-0D (hex) HandHeld entertainment, Inc.
001A0D (base 16) HandHeld entertainment, Inc.
539 Bryant Street, Suite 403
San Francisco CA 94103
US

00-1A-0E (hex) Cheng Uei Precision Industry Co.,Ltd
001A0E (base 16) Cheng Uei Precision Industry Co.,Ltd
Junda Industry District, Dongkeng Town,Dongguan City
DongGuan Guang Dong 523455
CN

00-19-BE (hex) Altai Technologies Limited
0019BE (base 16) Altai Technologies Limited
2/F, East Wing, Lakeside 2, 10 Science Park West Avenue,
Shatin New Territories
HK

00-19-B4 (hex) Intellio
Ltd
0019B4 (base 16) Intellio Ltd
Gyarmat u. 99/B
Budapest 1147
HU

00-19-BA (hex) Paradox Security Systems Ltd
0019BA (base 16) Paradox Security Systems Ltd
780 Industrial Blvd
St-Eustache Quebec J7R 5V3
CA

00-1A-26 (hex) Deltanode Solutions AB
001A26 (base 16) Deltanode Solutions AB
Box 92 184
Stockholm 120 09
SE

00-1A-25 (hex) DELTA DORE
001A25 (base 16) DELTA DORE
BONNEMAIN
COMBOURG BRETAGNE 35 35270
FR

00-19-FD (hex) Nintendo Co., Ltd.
0019FD (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-19-ED (hex) Axesstel Inc.
0019ED (base 16) Axesstel Inc.
6815 Flanders Sr.
San Diego CA 92121
US

00-19-F6 (hex) Acconet (PTE) Ltd
0019F6 (base 16) Acconet (PTE) Ltd
No. 16 Ayer Rajah Crescent
Singapore 139965
SG

00-1A-30 (hex) Cisco Systems, Inc
001A30 (base 16) Cisco Systems,
Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1A-36 (hex) Aipermon GmbH & Co. KG
001A36 (base 16) Aipermon GmbH & Co. KG
Zamdorfer Str. 100
Munich Bavaria D-81677
DE

00-1A-15 (hex) gemalto e-Payment
001A15 (base 16) gemalto e-Payment
6 rue de la Verrerie
Meudon 92197

FR

00-19-78 (hex) Datum Systems, Inc.
001978 (base 16) Datum Systems, Inc.
3666 Tiffani Ct.
Santa Cruz CA 95065
US

00-19-68 (hex) Digital Video Networks(Shanghai) CO. LTD.
001968 (base 16) Digital Video Networks(Shanghai) CO. LTD.
9th Floor,Hechuan Building, No.1026 YiShan Rd
Shanghai 201103
CN

00-19-50 (hex) Harman Multimedia
001950 (base 16) Harman Multimedia
8400 Balboa Blvd.
Northridge CA 91329
US

00-19-4C (hex) Fujian Stelcom information & Technology CO.,Ltd
00194C (base 16) Fujian Stelcom information & Technology CO.,Ltd
4F,Building A,Start Science Park, No.68,Hongshanyuan
Rd
Fuzhou Fujian 350002
CN

00-19-4A (hex) TESTO AG
00194A (base 16) TESTO AG
Testo Straße 1
Lenzkirch Baden-Württemberg 79853
DE

00-19-39 (hex) Gigamips
001939 (base 16) Gigamips
5th Floor, Yangjae Building, 261, Yangjae-Dong
Seocho-Gu Seoul 137-130
KR

00-19-3A (hex) OESOLUTIONS
00193A (base 16) OESOLUTIONS
Technopark, 958-3 Daechon-Dong, Buk-Gu
Gwangju Buk-Gu 500-706
KR

00-19-83 (hex) CCT R&D Limited
001983 (base 16) CCT R&D Limited
18/F CCT Telecom Building

Fotan, Shatin N.T. 000
HK

00-19-7F (hex) PLANTRONICS, INC.
00197F (base 16) PLANTRONICS, INC.
345 ENCINAL STREET
SANTA CRUZ CA 95060
US

00-19-7A (hex) MAZeT GmbH
00197A (base 16) MAZeT GmbH
Goeschwitzer Str. 32
Jena D-07745
DE

00-19-8A (hex) Northrop Grumman Systems Corp.
00198A (base 16) Northrop Grumman Systems Corp.
7055 Troy Hill Drive
Elkridge Maryland
21075
US

00-19-89 (hex) Sonitrol Corporation
001989 (base 16) Sonitrol Corporation
1707 Orlando Central Pkwy.
Orlando FL 32809
US

00-19-80 (hex) Gridpoint Systems
001980 (base 16) Gridpoint Systems
4043 Carling Avenue, Suite 200
Ottawa Ontario K2K 2A3
CA

00-19-60 (hex) DoCoMo Systems, Inc.
001960 (base 16) DoCoMo Systems, Inc.
Meguro Techno Bldg. 2nd Floor
Shinagawa-ku Tokyo 141-0031
JP

00-19-5A (hex) Jenaer Antriebstechnik GmbH
00195A (base 16) Jenaer Antriebstechnik GmbH
Buchaer Strasse 1
Jena Thueringen 07745
DE

00-19-A1 (hex) LG INFORMATION & COMM.
0019A1 (base 16) LG INFORMATION & COMM.

60-39,Kasan-dong,Kumchon-ku
Seoul 153-023
KR

00-19-A8 (hex) WiQuest Communications
0019A8 (base 16) WiQuest Communications
915 Enterprise Blvd.
Allen Texas 75013
US

00-19-6D (hex) Raybit Systems Korea, Inc
00196D (base 16) Raybit Systems Korea, Inc
Dream
Tower 1221
Seoul 158-718
KR

00-19-70 (hex) Z-Com, Inc.
001970 (base 16) Z-Com, Inc.
7F-2, NO.9, PROSPERITY 1ST RD.
HSINCHU 300
TW

00-18-C3 (hex) CS Corporation
0018C3 (base 16) CS Corporation
CS-building, Pangyo seven venture valley 625
Seongnam-si Gyeonggi-do 463-400
KR

00-18-CA (hex) Viprinet GmbH
0018CA (base 16) Viprinet GmbH
Basilikastraße 3
Bingen am Rhein 55411
DE

00-18-C7 (hex) Real Time Automation
0018C7 (base 16) Real Time Automation
2825 N Mayfair Rd Ste 11
Wauwatosa WI 53222
US

00-18-BB (hex) Eliwell Controls srl
0018BB (base 16) Eliwell Controls srl
Via dell'Industria, 15
Pieve d'Alpago Belluno 32010
IT

00-18-BF (hex) Essence Technology Solution, Inc.

0018BF (base 16) Essence Technology Solution, Inc.
B1, No. 207, Beisin Rd., Sec. 3
Sindian, Taipei County 231
TW

00-18-B9 (hex) Cisco Systems, Inc
0018B9 (base
16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-18-B8 (hex) New Voice International AG
0018B8 (base 16) New Voice International AG
St. Gallerstrasse 8
Lachen SZ 8853
CH

00-18-EE (hex) Videology Imaging Solutions, Inc.
0018EE (base 16) Videology Imaging Solutions, Inc.
37 M Lark Industrial Parkway
Greenville RI 02828-3001
US

00-18-EB (hex) Blue Zen Enterprises Private Limited
0018EB (base 16) Blue Zen Enterprises Private Limited
No 2&3 (First Floor) Kurban Ali Street
Chennai Tamil Nadu 600002
IN

00-18-E2 (hex) Topdata Sistemas de Automacao Ltda
0018E2 (base 16) Topdata Sistemas de Automacao Ltda
Rua Dr Carvalho Chaves, 662
Curitiba PR 80.220-010
BR

00-18-D1 (hex) Siemens Home & Office Comm. Devices
0018D1 (base 16) Siemens Home & Office Comm. Devices
4849 Alpha Rd.
Dallas Texas 75244
US

00-18-D0 (hex) AtRoad, A Trimble Company
0018D0
(base 16) AtRoad, A Trimble Company
47071 Bayside Parkway
Fremont California 94538
US

00-18-D2 (hex) High-Gain Antennas LLC
0018D2 (base 16) High-Gain Antennas LLC
11679 S. Cormorant Circle
Parker CO 80134
US

00-18-D3 (hex) TEAMCAST
0018D3 (base 16) TEAMCAST
Centre Espace Performance
Saint Gregoire 35769
FR

00-18-C6 (hex) OPW Fuel Management Systems
0018C6 (base 16) OPW Fuel Management Systems
6900 Santa Fe Drive
Hodgkins Illinois 60525
US

00-19-24 (hex) LBNL Engineering
001924 (base 16) LBNL Engineering
1 Cyclotron Rd.
Berkeley CA 94720
US

00-19-1A (hex) IRLINK
00191A (base 16) IRLINK
HanYoung B/D 6F, 4-6
SEOUL 138-824
KR

00-19-16 (hex) PayTec AG
001916 (base 16) PayTec AG
Rosengartenstrasse 3
Zollikerberg ZH 8125
CH

00-19-0E (hex) Atech Technology Co., Ltd.
00190E (base 16) Atech Technology Co., Ltd.
4 Fl.,
No. 103, Sec 2, Jiuzong Rd.
Taipei 114
TW

00-19-2F (hex) Cisco Systems, Inc
00192F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568

US

00-19-22 (hex) CM Comandos Lineares
001922 (base 16) CM Comandos Lineares
Av Eng Alberto de Zagottis, 760
São Paulo SP 04675-085
BR

00-19-1D (hex) Nintendo Co., Ltd.
00191D (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-19-05 (hex) SCHRACK Seconet AG
001905 (base 16) SCHRACK Seconet AG
Eibesbrunnergasse 18
Wien Österreich 1122
AT

00-19-07 (hex) Cisco Systems, Inc
001907 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-18-FB (hex) Compro Technology
0018FB (base 16) Compro Technology
3/F No 12, Alley 6, Lane 45, Pao Shin Rd
Hsintien 231
TW

00-18-DC (hex) Prostar Co., Ltd.
0018DC (base 16) Prostar Co., Ltd.
A-703
Technotown, 250-3 Hagye-dong, Nowon-gu
Seoul 139-230
KR

00-18-8F (hex) Montgomery Technology, Inc.
00188F (base 16) Montgomery Technology, Inc.
800 East Commerce Street
Greenville AL 36037
US

00-18-84 (hex) Fon Technology S.L.
001884 (base 16) Fon Technology S.L.
Avda. Bruselas, n. 7, Planta 3, Alcobendas

Madrid 28100
ES

00-18-80 (hex) Maxim Integrated Products
001880 (base 16) Maxim Integrated Products
160 Rio Robles
San Jose CA 95134
US

00-18-7C (hex) INTERCROSS, LLC
00187C (base 16) INTERCROSS, LLC
Novoselov str., 58/7
Ryazan 390049
RU

00-18-70 (hex) E28 Shanghai Limited
001870 (base 16) E28 Shanghai Limited
2/F Eastern Tower
Shanghai 200001
CN

00-18-72 (hex) Expertise Engineering
001872 (base 16) Expertise Engineering
4186 Sorrento Valley Blvd Suite -J
San Diego CA 92121
US

00-18-74 (hex) Cisco Systems, Inc
001874 (base
16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-18-5B (hex) Network Chemistry, Inc
00185B (base 16) Network Chemistry, Inc
1700 Seaport Blvd
Redwood City CA 94063
US

00-18-61 (hex) Ooma, Inc.
001861 (base 16) Ooma, Inc.
555 University Avenue
Palo Alto CA 94301
US

00-18-55 (hex) Aeromaritime Systembau GmbH
001855 (base 16) Aeromaritime Systembau GmbH

Ludwig-Erhard-Str. 16
D-85375 Neufahrn
DE

00-18-51 (hex) SWsoft
001851 (base 16) SWsoft
13755 Sunrise Valley Drive, Suite 600
Herndon VA 20171
US

00-18-56 (hex) EyeFi, Inc
001856 (base 16) EyeFi, Inc
149 Commonwealth Drive
Menlo Park CA 94025
US

00-18-4E (hex) Lianhe Technologies, Inc.
00184E (base 16) Lianhe Technologies, Inc.
3F, #119, DaHu ShanZhuang St.
Neihu District Taipei City 114
TW

00-18-4C (hex) Bogen Communications
00184C (base 16) Bogen Communications
50
Spring St.
Ramsey NJ 07446
US

00-18-3B (hex) CENITS Co., Ltd.
00183B (base 16) CENITS Co., Ltd.
3F, Yangjae Bldg., 264-3
Seoul 137-130
KR

00-18-3C (hex) Encore Software Limited
00183C (base 16) Encore Software Limited
6F Leo Complex
Bangalore Karnataka 560025
IN

00-18-41 (hex) High Tech Computer Corp
001841 (base 16) High Tech Computer Corp
23 Hsin Hua Rd.
Taoyuan 330
TW

00-18-26 (hex) Cale Access AB

001826 (base 16) Cale Access AB
Box 1031
Kista SE-164 21
SE

00-18-2D (hex) Artec Design
00182D (base 16) Artec Design
Teaduspargi 6/1
Tallinn 12618
EE

00-18-2A (hex) Taiwan Video & Monitor
00182A (base 16) Taiwan Video & Monitor
3F, 141 Jen Ai Rd Sec. 3
Taipei City 106
TW

00-18-69 (hex) KINGJIM
001869 (base 16) KINGJIM
No.10-18,2-Chome
Chiyoda-ku Tokyo 101-0031
JP

00-18-AA (hex) Protec Fire Detection
plc
0018AA (base 16) Protec Fire Detection plc
Protec House
Nelson Lancashire BB9 6LQ
GB

00-18-A1 (hex) Tiqit Computers, Inc.
0018A1 (base 16) Tiqit Computers, Inc.
2215 Old Page Mill Rd
Palo Alto CA 94304
US

00-18-96 (hex) Great Well Electronic LTD
001896 (base 16) Great Well Electronic LTD
The Third Industrial Area
Shenzhen Guangdong 518110
US

00-18-90 (hex) RadioCOM, s.r.o.
001890 (base 16) RadioCOM, s.r.o.
Misikova 22
Bratislava 811 06
SK

00-18-19 (hex) Cisco Systems, Inc
001819 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-18-10 (hex) IPTrade S.A.
001810 (base 16) IPTrade S.A.
Parc Scientifique
Sart-Tilman Wallonie 4031
BE

00-18-04 (hex) E-TEK DIGITAL TECHNOLOGY LIMITED
001804 (base 16) E-TEK DIGITAL TECHNOLOGY LIMITED
UNIT1520,15/F.,TOWER 2,GRAND CENTURY PLACE,193 PRINCE EDWARD ROAD WEST,KOWLOON,

HK

00-18-09 (hex) CRESYN
001809 (base 16) CRESYN
8-22,Jamwon-dong
Seoul Seocho-Gu #137-902
KR

00-18-00 (hex) UNIGRAND LTD
001800 (base 16) UNIGRAND LTD
7F-2, No.45, Jingde St., Jhonghe City,
235
TW

00-18-12 (hex) Beijing Xinwei Telecom Technology Co., Ltd.
001812 (base 16) Beijing Xinwei Telecom Technology Co., Ltd.
Xinwei Bldg., No. 7 Zhongguancun Software Park,
Haidian District Beijing 100094
CN

00-18-0B (hex) Brilliant Telecommunications
00180B (base 16) Brilliant Telecommunications
307 Orchard City Dr.
Campbell CA 95008
US

00-17-FC (hex) Suprema Inc.
0017FC (base 16) Suprema Inc.
16F Parkview Office Tower,
Seongnam Gyeonggi 463-863
KR

00-17-FD (hex) Amulet Hotkey
0017FD (base 16) Amulet Hotkey
Cavalier Road
Heathfield Devon TQ12 6TQ
GB

00-17-FB (hex) FA
0017FB (base 16) FA
628-7, Dungchon-Dong
Seoul Kangseo-Ku 157-838
KR

00-17-A2
(hex) Camrivox Ltd.
0017A2 (base 16) Camrivox Ltd.
The Jeffreys Building
Cambridge Cambridgeshire CB4 0WS
GB

00-17-9D (hex) Kelman Limited
00179D (base 16) Kelman Limited
Rathdown Close
Lisburn Co. Antrim BT28 2RB
GB

00-17-90 (hex) HYUNDAI DIGITECH Co, Ltd.
001790 (base 16) HYUNDAI DIGITECH Co, Ltd.
13th Fl, Choung-Jin Bldg, 53-5
Seoul 140-719
KR

00-17-91 (hex) LinTech GmbH
001791 (base 16) LinTech GmbH
Friedrich-Engels-Str. 35
Berlin 13156
DE

00-17-CF (hex) iMCA-GmbH
0017CF (base 16) iMCA-GmbH
Dorfstrasse 28b
Itzehoe Schleswig-Holstein 25524
DE

00-17-D8 (hex) Magnum Semiconductor, Inc.
0017D8 (base 16) Magnum Semiconductor, Inc.
591 Yosemite Drive
Milpitas CA 95035

US

00-17-DA (hex) Spans Logic
0017DA (base 16) Spans Logic
201 San Antonio Circle
Mountain View CA 94040
US

00-17-95 (hex) Cisco Systems, Inc
001795
(base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-17-99 (hex) SmarTire Systems Inc.
001799 (base 16) SmarTire Systems Inc.
Suite 150
Richmond BC V6V 2J1
CA

00-17-7F (hex) Worldsmart Retech
00177F (base 16) Worldsmart Retech
23 Hi-Tech Court
Eight Mile Plains QLD 4113
AU

00-17-B9 (hex) Gambro Lundia AB
0017B9 (base 16) Gambro Lundia AB
BOX 10101
LUND SkÃƒÂ¥ne 22010
SE

00-17-B3 (hex) Aftek Infosys Limited
0017B3 (base 16) Aftek Infosys Limited
Pawan Complex
Pune Maharashtra 411 038
IN

00-17-1E (hex) Theo Benning GmbH & Co. KG
00171E (base 16) Theo Benning GmbH & Co. KG
Muensterstraße 135-137
Bocholt NRW 46397
DE

00-17-12 (hex) ISCO International
001712 (base 16) ISCO International
1001 Cambridge Drive

Elk Grove Village IL 60007
US

00-17-0D (hex) Dust Networks Inc.
00170D (base 16) Dust Networks
Inc.
30695 Huntwood Ave.
Hayward Ca. 94544
US

00-17-0C (hex) Twig Com Ltd.
00170C (base 16) Twig Com Ltd.
Meriniitynkatu 11
Salo 2400
FI

00-17-0B (hex) Contela, Inc.
00170B (base 16) Contela, Inc.
6-8 Soonae-dong, Bundang-gu,
Sungnam Kyunggi-do 463-825
KR

00-17-5F (hex) XENOLINK Communications Co., Ltd.
00175F (base 16) XENOLINK Communications Co., Ltd.
2nd Fl., Jungyou B/D 797-22
Seoul 135-930
KR

00-17-5C (hex) SHARP CORPORATION
00175C (base 16) SHARP CORPORATION
1, Takumi-Cho,
Sakai city Osaka Prefecture 590-8522
JP

00-17-59 (hex) Cisco Systems, Inc
001759 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-17-54 (hex) Arkino HiTOP Corporation Limited
001754 (base 16) Arkino HiTOP Corporation Limited
5F., No.437, Tao Ying Rd
Taoyuan City Taoyuan County 33068,
TW

00-17-52 (hex) DAGS, Inc
001752 (base 16) DAGS,

Inc
C-510, Woolim Lion's Valley, 371-28, Gasan Dong, Geumcheon Ku
Seoul 153-786
KR

00-17-56 (hex) Vinci Labs Oy
001756 (base 16) Vinci Labs Oy
Finlaysoninkuja 21 A
Tampere Länsi-Suomi 33210
FI

00-17-86 (hex) wisembed
001786 (base 16) wisembed
808, hansin IT tower, 235 guro3-dong, guro-gu
Seoul 152-768
KR

00-17-82 (hex) LoBenn Inc.
001782 (base 16) LoBenn Inc.
150 Katimavik Road
Ottawa Ontario K2L 2N2
CA

00-17-6B (hex) Kiyon, Inc.
00176B (base 16) Kiyon, Inc.
9381 Judicial Drive
San Diego CA 92121
US

00-17-78 (hex) Central Music Co.
001778 (base 16) Central Music Co.
0711-0712 Tower D, SOHO New Town
Beijing 100022
CN

00-17-74 (hex) Elesta GmbH
001774 (base 16) Elesta GmbH
Gottlieb Daimler Strasse 1
Konstanz 78467
DE

00-17-77 (hex) Obsidian Research Corporation
001777 (base 16) Obsidian Research Corporation
120 -
4445 Calgary Trail NW
Edmonton Alberta T6H 5R7
CA

00-17-6A (hex) Avago Technologies
00176A (base 16) Avago Technologies
350 West Trimble Rd
San Jose CA 95131
US

00-17-41 (hex) DEFIDEV
001741 (base 16) DEFIDEV
20 rue Raymond Marcheron
Vanves 92170
FR

00-17-38 (hex) International Business Machines
001738 (base 16) International Business Machines
1 Azrieli Center
Tel Aviv 67021
IL

00-17-2D (hex) Axcen Photonics Corporation
00172D (base 16) Axcen Photonics Corporation
6F, No. 119, Baujung Rd.,
Shindian City, Taipei 231
TW

00-17-24 (hex) Studer Professional Audio GmbH
001724 (base 16) Studer Professional Audio GmbH
Althardstrasse 30
Regensdorf Zürich CH-8105
CH

00-16-A1 (hex) 3Leaf Networks
0016A1 (base 16) 3Leaf Networks
3255-1 Scott Blvd
Santa Clara CA 95054
US

00-16-A4 (hex) Ezurio Ltd
0016A4 (base 16) Ezurio Ltd
Unit 2
London
NW9 5HD
GB

00-16-99 (hex) Tonic DVB Marketing Ltd
001699 (base 16) Tonic DVB Marketing Ltd
Unit B, 10/F, Summit Building,
Hung Hom Kowloon
HK

00-16-9B (hex) Alstom Transport
00169B (base 16) Alstom Transport
11, 13 avenue de Bel Air
Villeurbanne Rhone 69100
FR

00-16-90 (hex) J-TEK INCORPORATION
001690 (base 16) J-TEK INCORPORATION
2F-1, No. 83, Sec. 2, GongDaoWu Rd.,
Hsinchu City 30070
TW

00-16-98 (hex) T&A Mobile Phones
001698 (base 16) T&A Mobile Phones
4/F, South Building,No.2966, Jinke Road
Pudong Shanghai 201203
CN

00-16-96 (hex) QDI Technology (H.K.) Limited
001696 (base 16) QDI Technology (H.K.) Limited
16/F, Standard Chartered Bank Building 4-4A
Hong Kong
CN

00-17-0F (hex) Cisco Systems, Inc
00170F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-17-04 (hex) Shinco Electronics Group Co.,Ltd
001704
(base 16) Shinco Electronics Group Co.,Ltd
No.5 Waihuan Road
Changzhou Jiangsu 213022
CN

00-17-07 (hex) InGrid, Inc
001707 (base 16) InGrid, Inc
920 Cassatt Rd
Berwyn Pa 19312
US

00-16-D8 (hex) Senea AB
0016D8 (base 16) Senea AB
Företagsallen 12
Åkersberga 18484

SE

00-16-D6 (hex) TDA Tech Pty Ltd
0016D6 (base 16) TDA Tech Pty Ltd
210 / 54 Currie Street
Adelaide South Australia 5000
AU

00-16-D5 (hex) Synccom Co., Ltd
0016D5 (base 16) Synccom Co., Ltd
#306 Myungi e-space 218-20
Anyang-si Kyungki-do 430-817
KR

00-16-C9 (hex) NAT Seattle, Inc.
0016C9 (base 16) NAT Seattle, Inc.
22125 17th Ave SE
Bothell WA 98021
US

00-16-A5 (hex) Tandberg Storage ASA
0016A5 (base 16) Tandberg Storage ASA
Postboks 191

NO

00-16-C6 (hex) North Atlantic Industries
0016C6 (base 16) North Atlantic Industries
170 Wilbur Place
Bohemia NY
11716
US

00-16-D2 (hex) Caspian
0016D2 (base 16) Caspian
170 Baytech Drive
San Jose CA 95134
US

00-16-F7 (hex) L-3 Communications, Aviation Recorders
0016F7 (base 16) L-3 Communications, Aviation Recorders
100 Cattlemen Rd.
Sarasota FL 34232
US

00-17-02 (hex) Osung Midicom Co., Ltd
001702 (base 16) Osung Midicom Co., Ltd
231-18, Dorim2-dong,

Seoul, Youngdeungpo-gu 150-832
KR

00-16-BE (hex) INFRANET, Inc.
0016BE (base 16) INFRANET, Inc.
8th Floor, Cowell B/D, 66-1
Seoul 137-040
KR

00-16-AB (hex) Dansensor A/S
0016AB (base 16) Dansensor A/S
Roennedevej 18
Ringsted DK-4100
DK

00-16-66 (hex) Quantier Communication Inc.
001666 (base 16) Quantier Communication Inc.
1F, No. 36, Industry E. Rd IV,
Hsin-Chu 300
TW

00-16-62 (hex) Liyuh Technology Ltd.
001662 (base 16) Liyuh Technology Ltd.
4F, No.19, Ln.221, Ganqian Rd., Neihu District
Taipei
114
TW

00-16-61 (hex) Novatium Solutions (P) Ltd
001661 (base 16) Novatium Solutions (P) Ltd
3rd Floor, Temple Towers, #672
Chennai Tamil Nadu 600035
IN

00-16-64 (hex) Prod-El SpA
001664 (base 16) Prod-El SpA
Via Palmanova 185
Milano MI 20132
IT

00-16-5E (hex) Precision I/O
00165E (base 16) Precision I/O
4005 Miranda Ave., Suite 210
Palo Alto CA 94304-1232
US

00-16-58 (hex) Fusiontech Technologies Inc.
001658 (base 16) Fusiontech Technologies Inc.

6F, No.78, Cheng Kung Rd., Sec. 1,
Taipei 115
TW

00-16-53 (hex) LEGO System A/S IE Electronics Division
001653 (base 16) LEGO System A/S IE Electronics Division
Aastvej 1
Billund Kommune 7190
DK

00-16-52 (hex) Hoatech Technologies, Inc.
001652 (base 16) Hoatech Technologies, Inc.
1F., No.224, Guosheng St.
Zhubei HsinChu Hsien 30244
TW

00-16-50 (hex) Kratos EPD
001650 (base 16)
Kratos EPD
Herley General Microwave Israel.
KIBBUTZ EYAL 45840
IL

00-16-42 (hex) Pangolin
001642 (base 16) Pangolin
9501 Satellite Boulevard, Suite 109
Orlando FL 32837
US

00-16-30 (hex) Vativ Technologies
001630 (base 16) Vativ Technologies
9339 Genesee Avenue
San Diego CA 92121
US

00-16-2F (hex) Geutebrück GmbH
00162F (base 16) Geutebrück GmbH
Im Nassen 7-9
Windhagen 53578
DE

00-16-2B (hex) Togami Electric Mfg.co.,Ltd.
00162B (base 16) Togami Electric Mfg.co.,Ltd.
1-1 Ohtakara-Kitamachi
Saga.PRF 840-0802
JP

00-16-81 (hex) Vector Informatik GmbH

001681 (base 16) Vector Informatik GmbH
Ingersheimer Str. 24
Stuttgart Baden-Württemberg 70499
DE

00-BA-C0 (hex) Biometric Access Company
00BAC0 (base 16) Biometric Access Company
2555 North IH 35
Round Rock Texas 78664
US

00-16-3B (hex) Communications & Power Industries
00163B
(base 16) Communications & Power Industries
Suite , 60 Decibel Road
State College PA 16801
US

00-16-37 (hex) CITEL SpA
001637 (base 16) CITEL SpA
Via L. G. Columella, 36
Milan MI 20128
IT

00-16-85 (hex) Elisa Oyj
001685 (base 16) Elisa Oyj
Elektroniikkatie 4
90570 Oulu
FI

00-16-80 (hex) Bally Gaming + Systems
001680 (base 16) Bally Gaming + Systems
950 Sandhill Road
Reno NV 89521
US

00-16-24 (hex) Teneros, Inc.
001624 (base 16) Teneros, Inc.
215 Castro St.
Mt. View CA 94041
US

00-16-1C (hex) e:cue
00161C (base 16) e:cue
Friedrich-List-Strasse 23
Paderborn 33100
DE

00-16-08 (hex) Sequans Communications
001608 (base 16) Sequans Communications
19 Le Parvis de la Défense
PARIS LA DEFENSE CEDEX 92073
FR

00-15-73 (hex) NewSoft Technology Corporation
001573 (base 16) NewSoft Technology Corporation
3F, 19-3, SanChong RD, NanKang,
Taipei
115
US

00-15-75 (hex) Nevis Networks Inc.
001575 (base 16) Nevis Networks Inc.
3945 Freedom Circle
Santa Clara CA 95054
US

00-15-6C (hex) SANE SYSTEM CO., LTD
00156C (base 16) SANE SYSTEM CO., LTD
0-2 Heungan-daero 439 beon-gil Dongan-gu
Anyang-si Kyunggi-do 431-804
KR

00-15-6A (hex) DG2L Technologies Pvt. Ltd.
00156A (base 16) DG2L Technologies Pvt. Ltd.
AML Center 1, Gnd. Floor, 8 Mahal Indl. Est.
Mumbai Maharashtra 400093
IN

00-15-6F (hex) Xiranet Communications GmbH
00156F (base 16) Xiranet Communications GmbH
Bertolt-Brecht-Allee 24
Dresden Saxony 01309
US

00-15-72 (hex) Red-Lemon
001572 (base 16) Red-Lemon
Unit 4, 9/F, Paramount Building
Chai Wan
HK

00-15-B8 (hex) Tahoe
0015B8 (base 16) Tahoe
ul. Uniwersytecka 1
Wroclaw 50951
PL

00-15-B6 (hex) ShinMaywa Industries, Ltd.
0015B6 (base 16) ShinMaywa Industries,
Ltd.
1-1 Shinmeiwa-cho
Takarazuka Hyogo 665-8550
JP

00-15-B0 (hex) AUTOTELENET CO.,LTD
0015B0 (base 16) AUTOTELENET CO.,LTD
2F, 898-24, Hogye2-dong, Dongan-gu
Anyang-City Kyunggi-do 431-836
KR

00-15-B1 (hex) Ambient Corporation
0015B1 (base 16) Ambient Corporation
79 Chapel St.
Newton MA 02458
US

00-15-84 (hex) Schenck Process GmbH
001584 (base 16) Schenck Process GmbH
Pallaswiesenstraße 100
Darmstadt Hessen 64293
DE

00-15-81 (hex) MAKUS Inc.
001581 (base 16) MAKUS Inc.
4F Daedo Bldg. 748-14 Yeoksam-dong, Kangnam-gu
Seoul 135-080
US

00-15-7A (hex) Telefin S.p.A.
00157A (base 16) Telefin S.p.A.
Via Albere 87/A
Verona VR 37138
IT

00-15-FA (hex) Cisco Systems, Inc
0015FA (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-15-FC (hex) Littelfuse Startco
0015FC (base 16) Littelfuse Startco
3714 Kinnear Place
Saskatoon

SK S7P 0A6
CA

00-15-F7 (hex) Wintecronics Ltd.
0015F7 (base 16) Wintecronics Ltd.
No. 716, 11F-3, Jung Jeng Rd.
Chung Ho City Taipei Hsien 235
TW

00-15-F8 (hex) Kingtronics Industrial Co. Ltd.
0015F8 (base 16) Kingtronics Industrial Co. Ltd.
Penthouse, Century Centre,
Kowloon
HK

00-15-A7 (hex) Robatech AG
0015A7 (base 16) Robatech AG
Pilatusring 10
Muri AG 5630
CH

00-15-9F (hex) Terascala, Inc.
00159F (base 16) Terascala, Inc.
145 Bodwell Street
Avon MA 02322
US

00-15-9E (hex) Mad Catz Interactive Inc
00159E (base 16) Mad Catz Interactive Inc
Units 3+4 West Point Row
Bristol South Gloucestershire BS32 4QG
US

00-15-A1 (hex) ECA-SINTERS
0015A1 (base 16) ECA-SINTERS
5, rue Paul Mesplé
TOULOUSE Cedex 01 31106
FR

00-15-D7 (hex) Reti Corporation
0015D7 (base 16) Reti Corporation
6F,No 13, Lane 120, Sec 1, Neihu Rd.,
Taipei
City 114
TW

00-15-CB (hex) Surf Communication Solutions Ltd.
0015CB (base 16) Surf Communication Solutions Ltd.

P.O. Box 343
Yokneam 20164
IL

00-15-CC (hex) UQUEST, LTD.
0015CC (base 16) UQUEST, LTD.
Sannomiya Intes Bldg. 8F
KOBE HYOGO 651-0086
JP

00-15-E6 (hex) MOBILE TECHNIKA Inc.
0015E6 (base 16) MOBILE TECHNIKA Inc.
Sotobori Sky Bld. 5th Floor
Shinjuku-ku Tokyo 162-0845
JP

00-15-DB (hex) Canesta Inc.
0015DB (base 16) Canesta Inc.
965 West Maude Avenue
Sunnyvale California 94085
US

00-15-C6 (hex) Cisco Systems, Inc
0015C6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-15-C3 (hex) Ruf Telematik AG
0015C3 (base 16) Ruf Telematik AG
Ruetistrasse 13
Schlieren ZH 8952
CH

00-15-93 (hex) U4EA Technologies Inc.
001593 (base 16) U4EA Technologies Inc.
48860 Milmont Drive
Fremont CA 94538
US

00-15-8D
(hex) Jennic Ltd
00158D (base 16) Jennic Ltd
Furnival Street
Sheffield Yorkshire S1 4QT
US

00-15-29 (hex) N3 Corporation

001529 (base 16) N3 Corporation
#402 GwangMyeong Techno Town
GyeongGi-Do 423-031
KR

00-15-2D (hex) TenX Networks, LLC
00152D (base 16) TenX Networks, LLC
4855 Wiley Post Way
Salt Lake City UT 84116
US

00-15-23 (hex) Meteor Communications Corporation
001523 (base 16) Meteor Communications Corporation
22614 66th Avenue South
Kent WA 98032
US

00-15-24 (hex) Numatics, Inc.
001524 (base 16) Numatics, Inc.
46280 Dylan Dr.
Novi Michigan 48377
US

00-15-1B (hex) Isilon Systems Inc.
00151B (base 16) Isilon Systems Inc.
3101 Western Avenue
Seattle WA 98121
US

00-14-F9 (hex) Vantage Controls
0014F9 (base 16) Vantage Controls
1061 South 800 East
Orem UT 84097
US

00-15-4E (hex) IEC
00154E (base 16) IEC
3,
rue de Varembé
CH - 1211 GENEVA 20
DE

00-15-50 (hex) Nits Technology Inc
001550 (base 16) Nits Technology Inc
2FL. No. 8 Alley 16, Lane 235, Bauchiau Rd.,
Shindian City Taipei Hsien 231
TW

00-15-46 (hex) ITG Worldwide Sdn Bhd
001546 (base 16) ITG Worldwide Sdn Bhd
2, Jalan AstakaU8/83
Shah Alam Selangor Darul Ehsan 40150
MY

00-15-3E (hex) Q-Matic Sweden AB
00153E (base 16) Q-Matic Sweden AB
Neongatan 8
Molndal 431 53
SE

00-15-67 (hex) RADWIN Inc.
001567 (base 16) RADWIN Inc.
900 Corporate Drive
Mahwah NJ 07430
US

00-15-5D (hex) Microsoft Corporation
00155D (base 16) Microsoft Corporation
One Microsoft Way
Redmond WA 98052-8300
US

00-15-62 (hex) Cisco Systems, Inc
001562 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-15-5B (hex) Sampo Corporation
00155B (base 16) Sampo Corporation
216 Chung Shan
Road,
Taipei Hsien 220
TW

00-15-53 (hex) Cytyc Corporation
001553 (base 16) Cytyc Corporation
250 Campus Dive
Marlborough MA 01752
US

00-15-51 (hex) RadioPulse Inc.
001551 (base 16) RadioPulse Inc.
2nd fl. Hans B/D, 111-55
Seoul 134-883
KR

00-15-52 (hex) Wi-Gear Inc.
001552 (base 16) Wi-Gear Inc.
340 Church Street
San Francisco CA 94114
US

00-15-10 (hex) Techsphere Co., Ltd
001510 (base 16) Techsphere Co., Ltd
4F, Wonil Bldg., 980-54, Bangbae-dong, SeoCho-gu
Seoul 137-060
KR

00-15-13 (hex) EFS sas
001513 (base 16) EFS sas
BP 34
MILLERY F-69390
US

00-15-42 (hex) MICROHARD S.R.L.
001542 (base 16) MICROHARD S.R.L.
Via Primo Maggio 36
San Vittore Olona Milano 20028
IT

00-15-03 (hex) PROFIcomms s.r.o.
001503 (base 16) PROFIcomms s.r.o.
Turgenevova 5
Brno EU/Europe 618 00
CZ

00-15-09 (hex) Plus Technology Co., Ltd
001509
(base 16) Plus Technology Co., Ltd
Office #205, Gayang Techno-town,
Seoul 157-810
KR

00-14-ED (hex) Airak, Inc.
0014ED (base 16) Airak, Inc.
21641 Beaumeade Circle
Ashburn Virginia 20147
US

00-14-E1 (hex) Data Display AG
0014E1 (base 16) Data Display AG
Industriestraße 1
Germering Bayern 82110

DE

00-14-E3 (hex) mm-lab GmbH
0014E3 (base 16) mm-lab GmbH
Stammheimer Strasse 10
Kornwestheim
DE

00-14-D9 (hex) IP Fabrics, Inc.
0014D9 (base 16) IP Fabrics, Inc.
3720 SW 141st Avenue
Beaverton Oregon 97006
US

00-14-D6 (hex) Jeongmin Electronics Co.,Ltd.
0014D6 (base 16) Jeongmin Electronics Co.,Ltd.
#710, Byuksan Digital Valley 2,
Seoul 153 783
KR

00-14-8B (hex) Globo Electronic GmbH & Co. KG
00148B (base 16) Globo Electronic GmbH & Co. KG
Industriestrasse 4a
Niederlauer Bayern 97618
DE

00-14-90 (hex) ASP Corporation
001490
(base 16) ASP Corporation
465 Industrial Park Road
Hartwell GA 30643
US

00-14-79 (hex) NEC Magnus Communications,Ltd.
001479 (base 16) NEC Magnus Communications,Ltd.
22-23, Kaigan 3-chome
Minato-ku Tokyo 108-0022
JP

00-14-7B (hex) Iteris, Inc.
00147B (base 16) Iteris, Inc.
1515 S. Manchester Ave.
Anaheim CA 92802
US

00-14-7A (hex) Eubus GmbH
00147A (base 16) Eubus GmbH
Gollierstraße 70 Aufgang E 4.Stock

Munich Bavaria 80339
DE

00-14-6D (hex) RF Technologies
00146D (base 16) RF Technologies
3125 N 126th Street
Brookfield WI 53005
US

00-14-F0 (hex) Business Security OL AB
0014F0 (base 16) Business Security OL AB
Box 110 65
Lund 220 11
SE

00-14-F2 (hex) Cisco Systems, Inc
0014F2 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-14-E7 (hex) Stolinx,. Inc
0014E7 (base 16) Stolinx,. Inc
3F Ohchang
Bldg., 61 Yangjae-dong
Seoul 137-889
KR

00-14-E9 (hex) Nortech International
0014E9 (base 16) Nortech International
32A Wiganthorpe Road
Pietermartizburg KwaZulu Natal 3201
ZA

00-14-D0 (hex) BTI Systems Inc.
0014D0 (base 16) BTI Systems Inc.
50 Northside Road
Ottawa Ontario K2H 5Z6
CA

00-14-CE (hex) NF CORPORATION
0014CE (base 16) NF CORPORATION
6-3-20, Tsunashima-higashi
Yokohama Kanagawa 223-8508
JP

00-14-BB (hex) Open Interface North America
0014BB (base 16) Open Interface North America

506 2nd Avenue, Suite 420
Seattle WA 98104
US

00-14-88 (hex) Akorri
001488 (base 16) Akorri
11 Falcon Ridge Dr
Hopkinton MA 01748
US

00-14-84 (hex) Cermate Technologies Inc.
001484 (base 16) Cermate Technologies Inc.
7F-1, No 168 Lien-Chen Rd.
Chung-Ho Dist New Taipei City
TW

00-14-AC (hex) Bountiful WiFi
0014AC (base 16) Bountiful WiFi
707
West 700 South
Woods Cross Utah 84087
US

00-14-A8 (hex) Cisco Systems, Inc
0014A8 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-14-A0 (hex) Accsense, Inc.
0014A0 (base 16) Accsense, Inc.
460 Ward Drive
Santa Barbara California 93111
US

00-13-FE (hex) GRANDTEC ELECTRONIC CORP.
0013FE (base 16) GRANDTEC ELECTRONIC CORP.
8F,NO.268,Lian Cheng Rd.,Chung Ho City,
Taipei 235
TW

00-13-F8 (hex) Dex Security Solutions
0013F8 (base 16) Dex Security Solutions
10 Junction Road Parktown
Johannesburg Guteng 2000
ZA

00-13-F9 (hex) Cavera Systems

0013F9 (base 16) Cavera Systems
2355 Oakland Rd, Suite#33
San Jose CA 95131
US

00-13-F2 (hex) Klas Ltd
0013F2 (base 16) Klas Ltd
Bracetown Business Park
Clonee Co Meath
IE

00-13-F7 (hex) SMC Networks, Inc.
0013F7 (base 16) SMC Networks, Inc.
38 Tesla
Irvine CA
92618
US

00-14-5F (hex) ADITEC CO. LTD
00145F (base 16) ADITEC CO. LTD
4F Hyowon B/D, 99-5,
Seoul 138-805
KR

00-14-59 (hex) Moram Co., Ltd.
001459 (base 16) Moram Co., Ltd.
3F, Manwol Bldg., 1022-4
Suwon-shi Gyounggi-do 443-813
KR

00-13-ED (hex) PSIA
0013ED (base 16) PSIA
517-13 Induspis 5th
SungNam KyungGi
KR

00-13-E6 (hex) Technolution
0013E6 (base 16) Technolution
Zuidelijkhalfrond 1
GOUDA ZH 2801 DD
NL

00-14-53 (hex) ADVANTECH TECHNOLOGIES CO.,LTD
001453 (base 16) ADVANTECH TECHNOLOGIES CO.,LTD
#1202 ACE TECHNO TOWER, 684-1
Seoul 157-721
KR

00-14-54 (hex) Symwave
001454 (base 16) Symwave
10251 Vista Sorrento Parkway
San Diego CA 92121
US

00-14-48 (hex) Inventec Multimedia & Telecom Corporation
001448 (base 16) Inventec Multimedia & Telecom Corporation
5F,NO.396,Sec.1 Nei-Hu Road
Taipei 114
TW

00-14-1C (hex) Cisco
Systems, Inc
00141C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-14-1A (hex) DEICY CORPORATION
00141A (base 16) DEICY CORPORATION
3-3-6,Sakae-cho,Hamura-shi,
Tokyo 205-0002
JP

00-14-4B (hex) Hifn, Inc.
00144B (base 16) Hifn, Inc.
750 University Ave
Los Gatos CA 95032
US

00-14-3C (hex) Rheinmetall Canada Inc.
00143C (base 16) Rheinmetall Canada Inc.
225 boul du seminaire sud
St-Jean-sur-Richelieu Quebec J3B 8E9
CA

00-14-70 (hex) Prokom Software SA
001470 (base 16) Prokom Software SA
Al. Jerozolimskie 65/79
Warszawa Mazowieckie 00-697
PL

00-14-67 (hex) ArrowSpan Inc.
001467 (base 16) ArrowSpan Inc.
4699 Old Ironsides Dr. Suite 100
Santa Clara CA 95054
US

00-14-16 (hex) Scosche Industries, Inc.
001416 (base 16) Scosche Industries, Inc.
PO Box 2901
Oxnard CA 93034
US

00-14-0C (hex) GKB CCTV CO., LTD.
00140C
(base 16) GKB CCTV CO., LTD.
7F, No. 1, Lane 641,
Ta Ya Hsiang, TAICHUNG 428
TW

00-14-35 (hex) CityCom Corp.
001435 (base 16) CityCom Corp.
3F., No.532, Sec. 2,
Jhonghe City Taipei Hsien 23557
TW

00-14-26 (hex) NL Technology
001426 (base 16) NL Technology
800 Turnpike Street
North Andover MA 01845
US

00-13-CD (hex) MTI co. LTD
0013CD (base 16) MTI co. LTD
166-10 Karak-dong
Songpa-ku Seoul 138-810
KR

00-13-D3 (hex) MICRO-STAR INTERNATIONAL CO., LTD.
0013D3 (base 16) MICRO-STAR INTERNATIONAL CO., LTD.
NO. 69, LI-DE ST.
JUNG-HE CITY TAIPEI HSIEN 235
TW

00-13-CA (hex) ATX
0013CA (base 16) ATX
8-1602 Tricont Avenue
Whitby ON L1N 7C3
CA

00-13-C5 (hex) LIGHTRON FIBER-OPTIC DEVICES INC.
0013C5 (base 16) LIGHTRON FIBER-OPTIC DEVICES INC.
51-1 Moonpyung-Dong, Taeduck-Gu
Taejon 306-220

KR

00-13-C4 (hex) Cisco Systems, Inc
0013C4
(base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-13-4C (hex) YDT Technology International
00134C (base 16) YDT Technology International
2F., No.218, Rueiguang Rd.,
Taipei, 114
TW

00-13-3C (hex) QUINTRON SYSTEMS INC.
00133C (base 16) QUINTRON SYSTEMS INC.
2105 SO. BLOSSER ROAD
SANTA MARIA CALIFORNIA 93458
US

00-13-9A (hex) K-ubique ID Corp.
00139A (base 16) K-ubique ID Corp.
Yamasan Bldg.8F,
Chuo-ku Tokyo 103-0023
JP

00-13-9E (hex) Ciara Technologies Inc.
00139E (base 16) Ciara Technologies Inc.
9300 Trans Canada Highway
Saint-Laurent Quebec H4S 1K5
CA

00-13-9D (hex) MaxLinear Hispania S.L.U.
00139D (base 16) MaxLinear Hispania S.L.U.
Ronda Narcis Monturiol
Estarriol, 11D Paterna 46980
ES

00-13-B5 (hex) Wavesat
0013B5 (base 16) Wavesat
1375, Trans-Canada Highway
Dorval Quebec H9P 2W8
CA

00-13-AF (hex) NUMA
Technology,Inc.
0013AF (base 16) NUMA Technology,Inc.

4F,No778,Sec 4,Patch Rd.
Taipei 115
TW

00-13-B0 (hex) Jablotron
0013B0 (base 16) Jablotron
Pod Skalkou 33
Jablonec nad Nisou 46601
CZ

00-13-B1 (hex) Intelligent Control Systems (Asia) Pte Ltd
0013B1 (base 16) Intelligent Control Systems (Asia) Pte Ltd
70 Ubi Crescent #01-12
408570
SG

00-13-DF (hex) Ryvor Corp.
0013DF (base 16) Ryvor Corp.
15145 Red Hill Ave.
Tustin CA 92780
US

00-13-D5 (hex) RuggedCom
0013D5 (base 16) RuggedCom
300 Applewood Crescent (Unit 1)
Concord, Ontario L4K 5C7
CA

00-13-D6 (hex) TII NETWORK TECHNOLOGIES, INC.
0013D6 (base 16) TII NETWORK TECHNOLOGIES, INC.
1385 AKRON STREET
COPIAGUE NY 11726
US

00-13-DB (hex) SHOEI Electric Co.,Ltd
0013DB (base 16) SHOEI Electric Co.,Ltd
1-29-2,Wakabayashi
Setagaya-ku Tokyo 154-0023
JP

00-13-7F (hex) Cisco Systems,
Inc
00137F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-13-82 (hex) Cetacea Networks Corporation

001382 (base 16) Cetacea Networks Corporation
3708 West 36th Avenue
Vancouver British Columbia V6N 2S4
CA

00-13-75 (hex) American Security Products Co.
001375 (base 16) American Security Products Co.
11925 Pacific ave.
Fontana CA 92335
US

00-13-C2 (hex) WACOM Co.,Ltd
0013C2 (base 16) WACOM Co.,Ltd
2-510-1 Toyonodai Otone-machi
Kitasaitama-gun Saitama 349-1148
JP

00-13-BF (hex) Media System Planning Corp.
0013BF (base 16) Media System Planning Corp.
4F Velco-Kuromon Bldg.
Taito-ku, Tokyo 110-0005
JP

00-13-BB (hex) Smartvue Corporation
0013BB (base 16) Smartvue Corporation
102 Woodmont Boulevard
Nashville TN 37205
US

00-13-58 (hex) Realm Systems, Inc.
001358 (base 16) Realm Systems, Inc.
9350 South 535 East
Sandy
Utah 84070
US

00-13-59 (hex) ProTelevision Technologies A/S
001359 (base 16) ProTelevision Technologies A/S
Marielundvej 16,2
Herlev Copenhagen 2730
DK

00-13-50 (hex) Silver Spring Networks, Inc
001350 (base 16) Silver Spring Networks, Inc
575 Broadway Street
Redwood City CA 94063
US

00-13-8D (hex) Kinghold
00138D (base 16) Kinghold
11F, No. 965, Jungjeng Rd.
Junghe Taipei 235
TW

00-13-90 (hex) Termtek Computer Co., Ltd
001390 (base 16) Termtek Computer Co., Ltd
2F, No. 100, Li De St.,
Chung Ho City Taipei Hsien 235
TW

00-13-2F (hex) Interactek
00132F (base 16) Interactek
Sigmal 2 BLDG #C-319, 18 Kumi-dong
Seongnam Kyung-gi 463-741
KR

00-13-30 (hex) EURO PROTECTION SURVEILLANCE
001330 (base 16) EURO PROTECTION SURVEILLANCE
30 Rue du Doubs
STRASBOURG 67100
FR

00-13-25 (hex) Cortina Systems Inc
001325 (base 16) Cortina Systems Inc
840
W California Ave, Suite 100
Sunnyvale CA 94086
US

00-13-3D (hex) Micro Memory Curtiss Wright Co
00133D (base 16) Micro Memory Curtiss Wright Co
9540 Vassar Avenue
Chatsworth CA 91311
US

00-13-3F (hex) Eppendorf Instrumente GmbH
00133F (base 16) Eppendorf Instrumente GmbH
Barkhausenweg 1
Hamburg DE 22339
DE

00-13-41 (hex) Shandong New Beiyang Information Technology Co.,Ltd
001341 (base 16) Shandong New Beiyang Information Technology Co.,Ltd
NO.11 Xinwei Road
Weihai city Shandong 264200
CN

00-13-31 (hex) CellPoint Connect
001331 (base 16) CellPoint Connect
Billedvej 4
Copenhagen 2100
DK

00-13-35 (hex) VS Industry Berhad
001335 (base 16) VS Industry Berhad
Plo 47, Senai Ind. Est. II,
Senai Johor 81400
MY

00-12-C3 (hex) WIT S.A.
0012C3 (base 16) WIT S.A.
138 avenue Léon Bérenger
Saint Laurent du Var PACA 06700
FR

00-12-C8 (hex) Perfect
tech
0012C8 (base 16) Perfect tech
3F,No.9,LANE175,NANKAN RD.,
LUJHU TAOYUAN 338
TW

00-12-C6 (hex) TGC America, Inc
0012C6 (base 16) TGC America, Inc
2901 Tasman Drive, Suite 111
Santa Clara CA 95054
US

00-12-CC (hex) Bitatek CO., LTD
0012CC (base 16) Bitatek CO., LTD
6F.,No 115,Wugong 3rd Rd
Wugu District New Taipei City 248
TW

00-12-C1 (hex) Check Point Software Technologies
0012C1 (base 16) Check Point Software Technologies
5 Ha'solelim St.
Tel Aviv 67897
IL

00-12-ED (hex) AVG Advanced Technologies
0012ED (base 16) AVG Advanced Technologies
4140 Utica Ridge Road
Bettendorf IA 52722

US

00-12-EA (hex) Trane
0012EA (base 16) Trane
4833 White Bear Parkway
St. Paul MN 55110
US

00-12-E7 (hex) Projectek Networking Electronics Corp.
0012E7 (base 16) Projectek Networking Electronics Corp.
5F-9, No. 16, Lane 609, Sec. 5, Chungshin Rd.,
Sanchung,
Taipei 241
TW

00-12-FD (hex) OPTIMUS IC S.A.
0012FD (base 16) OPTIMUS IC S.A.
NAWOJOWSKA 118
NOWY SACZ MALOPOLSKA 33-300
PL

00-13-05 (hex) Epicom, Inc.
001305 (base 16) Epicom, Inc.
PO Box 24839
Oakland CA 94623-1839
US

00-13-06 (hex) Always On Wireless
001306 (base 16) Always On Wireless
3701 Kirby Dr
Houston TX 77098
US

00-12-FA (hex) THX LTD
0012FA (base 16) THX LTD
5201 Great America Parkway
Santa Clara CA 95054
US

00-12-E4 (hex) ZIEHL industrie-electronik GmbH + Co KG
0012E4 (base 16) ZIEHL industrie-electronik GmbH + Co KG
Daimlerstraße 13
Schwaebisch Hall 74523
DE

00-12-BB (hex) Telecommunications Industry Association TR-41 Committee
0012BB (base 16) Telecommunications Industry Association TR-41 Committee
2500 Wilson Blvd., Suite 300

Arlington VA 22201
US

00-12-B6 (hex) Santa Barbara Infrared, Inc.
0012B6 (base 16) Santa
Barbara Infrared, Inc.
30 S. Calle Cesar Chavez
Santa Barbara CA 93103
US

00-12-B9 (hex) Fusion Digital Technology
0012B9 (base 16) Fusion Digital Technology
Victoria Mews, 23 Millfield Road
Bingley BD16 1PY
GB

00-12-B4 (hex) Work Microwave GmbH
0012B4 (base 16) Work Microwave GmbH
Rudolf-Diesel-Ring 2
Holzkirchen 83607
DE

00-12-B5 (hex) Vialta, Inc.
0012B5 (base 16) Vialta, Inc.
48461 Fremont Blvd.
Fremont CA 94538
US

00-12-97 (hex) O2Micro, Inc.
001297 (base 16) O2Micro, Inc.
3118 Patrick Henry Drive
Santa Clara CA 95054
US

00-12-9D (hex) First International Computer do Brasil
00129D (base 16) First International Computer do Brasil
Rodovia BR 459
Santa Rita do Sapucaí Minas Gerais
BR

00-12-9C (hex) Yulinet
00129C (base 16) Yulinet
11F, Samhomoolsan B/D 275-6, Yangjae-dong
Seocho Seoul 137-941
KR

00-12-90 (hex) KYOWA Electric

& Machinery Corp.
001290 (base 16) KYOWA Electric & Machinery Corp.
4-8-16,Masuizumi
Kanazawa Ishikawa 921-8025
JP

00-12-91 (hex) KWS Computersysteme GmbH
001291 (base 16) KWS Computersysteme GmbH
Carl Zeiss Str. 1
Ettlingen BW 76275
DE

00-12-A3 (hex) Trust International B.V.
0012A3 (base 16) Trust International B.V.
Laan van Barcelona 600
Dordrecht Zuid holland 3317 DD
NL

00-12-A7 (hex) ISR TECHNOLOGIES Inc
0012A7 (base 16) ISR TECHNOLOGIES Inc
1100, rue Notre-Dame Ouest
Montreal Quebec H3C 1K3
CA

00-12-AA (hex) IEE, Inc.
0012AA (base 16) IEE, Inc.
7740 Lemona Avenue
Van Nuys, CA 91405
US

00-12-9F (hex) RAE Systems
00129F (base 16) RAE Systems
3775 North First Street
San Jose CA 95134
US

00-12-95 (hex) Aiware Inc.
001295 (base 16) Aiware Inc.
J-Tower 2F
Fuchu-shi Tokyo 183-0044
JP

00-12-8B (hex) Sensory Networks Inc
00128B
(base 16) Sensory Networks Inc
Level 6, 140 William St
East Sydney NSW 2011
AU

00-12-8F (hex) Montilio
00128F (base 16) Montilio
1 maskit st.
Hertzelia 46763
IL

00-12-89 (hex) Advance Sterilization Products
001289 (base 16) Advance Sterilization Products
33 Technology Drive
Irvine California 92618
US

00-12-84 (hex) Lab33 Srl
001284 (base 16) Lab33 Srl
C.so F. Perrone 24
Genoa GE 16152
IT

00-12-5B (hex) KAIMEI ELECTRONI
00125B (base 16) KAIMEI ELECTRONI
14-3F, NO.81,SEC. 1,HSIN-TAI-WU ROAD,HSICHIH,
TAIPEI HSIEN HSICHIH 221
TW

00-12-59 (hex) THERMO ELECTRON KARLSRUHE
001259 (base 16) THERMO ELECTRON KARLSRUHE
DIESELSTRAßE 4
KARLSRUHE Baden-Württemberg 76227
DE

00-12-5A (hex) Microsoft Corporation
00125A (base 16) Microsoft Corporation
One Microsoft Way
Redmond Washington 98052-6399
US

00-12-56 (hex) LG INFORMATION & COMM.
001256
(base 16) LG INFORMATION & COMM.
459-9,KASAN-DONG,KUMCHON-GU,
SEOUL 153-023
KR

00-12-B1 (hex) Dai Nippon Printing Co., Ltd
0012B1 (base 16) Dai Nippon Printing Co., Ltd
2-8-21,Akabane-minami
Kita-ku Tokyo 115-0044

JP

00-12-81 (hex) March Networks S.p.A.
001281 (base 16) March Networks S.p.A.
Via Dei Lavoratori Autobianchi n. 1,
Desio Milano 20033
IT

00-12-7E (hex) Digital Lifestyles Group, Inc.
00127E (base 16) Digital Lifestyles Group, Inc.
801 South Sentous Ave.
City of Industry CA 91748
US

00-12-6B (hex) Ascalade Communications Limited
00126B (base 16) Ascalade Communications Limited
Unit 10-11, 35/F, Cable TV Tower,

HK

00-11-DA (hex) Vivaas Technology Inc.
0011DA (base 16) Vivaas Technology Inc.
15F, No. 10, Sec 1, Pei-Hsin Rd.,
Hsin-Tien city Taipei Hsien, 231
TW

00-11-DD (hex) FROMUS TEC. Co., Ltd.
0011DD (base 16) FROMUS TEC. Co., Ltd.
2F
896-8 Hogye2-dong Dongan-Gu
431-836
KR

00-11-E4 (hex) Danelec Electronics A/S
0011E4 (base 16) Danelec Electronics A/S
Blokken 44
Birkeroed Copenhagen 3460
DK

00-11-E1 (hex) Arcelik A.S
0011E1 (base 16) Arcelik A.S
Cumhuriyet Mah., E5 Yan Yol, No:1,
Istanbul 34520
TR

00-12-33 (hex) JRC TOKKI Co.,Ltd.
001233 (base 16) JRC TOKKI Co.,Ltd.
3-2-1 Shinyoshidahigashi Kohoku-ku

Yokohama Kanagawa 223-8572
JP

00-12-2F (hex) Sanei Electric Inc.
00122F (base 16) Sanei Electric Inc.
5F Taisou-Ikebukuro Bldg.
Toshima-ku Tokyo 171-0014
JP

00-11-EB (hex) Innovative Integration
0011EB (base 16) Innovative Integration
2390A Ward Avenue
Simi Valley CA 93065
US

00-11-EA (hex) IWICS Inc.
0011EA (base 16) IWICS Inc.
19125 North Creek Parkway
Bothell WA 98011
US

00-11-E2 (hex) Hua Jung Components Co., Ltd.
0011E2 (base 16) Hua Jung Components
Co., Ltd.
5F, No.13, Lane 120, Sec.1, Nei Hu Road
Taipei 114
TW

00-12-46 (hex) T.O.M TECHNOLOGY INC..
001246 (base 16) T.O.M TECHNOLOGY INC..
906 Woolim E-biz Center 2,
Seoul Guro-Gu 184-1
KR

00-12-3D (hex) GES Co, Ltd
00123D (base 16) GES Co, Ltd
Room 710, Bundang Technopark, 700
Gyeonggi-Do 463-400
KR

00-12-39 (hex) S Net Systems Inc.
001239 (base 16) S Net Systems Inc.
10F Sungwon Bldg. Samsung-dong
Seoul 135-090
KR

00-11-FB (hex) Heidelberg Engineering GmbH
0011FB (base 16) Heidelberg Engineering GmbH

Tiergartenstraße 15
Heidelberg Baden-Württemberg 69121
DE

00-12-14 (hex) Koenig & Bauer AG
001214 (base 16) Koenig & Bauer AG
Friedrich-Koenig-Str. 4
Wuerzburg Bavaria 97080
DE

00-12-0F (hex) IEEE 802.3
00120F (base 16) IEEE 802.3

Oban PA34 5EJ
GB

00-12-0C (hex) CE-Infosys Pte Ltd
00120C (base 16) CE-Infosys Pte Ltd
390
Havelock Road
169662
SG

00-12-30 (hex) Picaso Infocommunication CO., LTD.
001230 (base 16) Picaso Infocommunication CO., LTD.
3F, Suntechcity, Sangdaewon 1-dong,
Sungnam-city Kyunggi-do 462-725
KR

00-12-1D (hex) Netfabric Corporation
00121D (base 16) Netfabric Corporation
67 Federal Road
Brookfield CT 06804
US

00-11-EF (hex) Conitec Datensysteme GmbH
0011EF (base 16) Conitec Datensysteme GmbH
Dieselstraße 11c
Dieburg Hessen 64807
DE

00-11-AD (hex) Shanghai Ruijie Technology
0011AD (base 16) Shanghai Ruijie Technology
27F, 420 Jiangning Rd.
Shanghai 200041
CN

00-11-A8 (hex) Quest Technologies

0011A8 (base 16) Quest Technologies
1060 Corporate Center Drive
Oconomowoc Wisconsin 53066
US

00-11-A1 (hex) VISION NETWARE CO.,LTD
0011A1 (base 16) VISION NETWARE CO.,LTD
Ace Twin Tower (2), #709
Seoul Guro-Gu 152-050
KR

00-11-A0 (hex) Vtech
Engineering Canada Ltd
0011A0 (base 16) Vtech Engineering Canada Ltd
200-7671 Alderbridge Way
Richmond BC V6X 1Z9
CA

00-11-BE (hex) AGP Telecom Co. Ltd
0011BE (base 16) AGP Telecom Co. Ltd
9F, 134 Chung-Hsiao E. RD
Taipei 106
TW

00-11-BA (hex) Elexol Pty Ltd
0011BA (base 16) Elexol Pty Ltd
Level 2 / 146 Bundall Road
Bundall Queensland 4217
AU

00-11-BC (hex) Cisco Systems, Inc
0011BC (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-11-B3 (hex) YOSHIMIYA CO.,LTD.
0011B3 (base 16) YOSHIMIYA CO.,LTD.
2-3-24 Bainan
OSAKA OSAKA-Pref 557-0033
JP

00-11-B6 (hex) Open Systems International
0011B6 (base 16) Open Systems International
4101 Arrowhead Drive
Medina MN 55340
US

00-11-B0 (hex) Fortelink Inc.
0011B0 (base 16) Fortelink Inc.
42501 Albrae street suite 202
Fremont CA 94538
US

00-11-AC (hex) Simtec Electronics
0011AC
(base 16) Simtec Electronics
Avondale Drive
Tarleton Lancashire PR4 6AX
GB

00-11-4F (hex) US Digital Television, Inc
00114F (base 16) US Digital Television, Inc
5807 N. Andrews Way
Fort Lauderdale FL 33309
US

00-11-72 (hex) COTRON CORPORATION
001172 (base 16) COTRON CORPORATION
12FL,No.150,Sec.4,Cheng-De Rd
Taipei City 111
TW

00-11-68 (hex) HomeLogic LLC
001168 (base 16) HomeLogic LLC
5919 Sea Otter Place
Carlsbad CA 92010
US

00-11-8F (hex) EUTECH INSTRUMENTS PTE. LTD.
00118F (base 16) EUTECH INSTRUMENTS PTE. LTD.
Blk 55,Ayer Rajah Crescent, #04-16/24.
139949
SG

00-11-91 (hex) CTS-Clima Temperatur Systeme GmbH
001191 (base 16) CTS-Clima Temperatur Systeme GmbH
Lotzenäcker 21
Hechingen Baden-Württemberg 72379
DE

00-11-8D (hex) Hanchang System Corp.
00118D (base 16) Hanchang System Corp.
1058-2, Shinkil-dong, Danwon-gu,
Ansan-si

Gyeonggi-do 425-839
KR

00-11-89 (hex) Aerotech Inc
001189 (base 16) Aerotech Inc
101 Zeta Drive
Pittsburgh PA 15238
US

00-11-82 (hex) IMI Norgren Ltd
001182 (base 16) IMI Norgren Ltd
PO Box 22
Lichfield Staffordshire WS13 6SB
GB

00-11-7A (hex) Singim International Corp.
00117A (base 16) Singim International Corp.
6F-2, No. 190, Sec. 2 Chung Hsin Road,
Hsin Tien City 231
TW

00-11-63 (hex) SYSTEM SPA DEPT. ELECTRONICS
001163 (base 16) SYSTEM SPA DEPT. ELECTRONICS
VIA GHIAROLA VECCHIA 73
FIORANO MODENESE MODENA I-41042
IT

00-11-5F (hex) ITX Security Co., Ltd.
00115F (base 16) ITX Security Co., Ltd.
9F Kolon Digital Tower Aston Bldg. 505-14
Gasan-dong Geumcheon-gu SEOUL 153-803
KR

00-11-53 (hex) Trident Tek, Inc.
001153 (base 16) Trident Tek, Inc.
8041 Cessna Ave #200
Gaithersburg MD 20879
US

00-11-D6 (hex) HandEra, Inc.
0011D6 (base
16) HandEra, Inc.
2859 104th St.
Des Moines IA 50322
US

00-11-CA (hex) Long Range Systems, Inc.
0011CA (base 16) Long Range Systems, Inc.

4550 Excel Parkway
Addison Texas 75001
US

00-11-C5 (hex) TEN Technology
0011C5 (base 16) TEN Technology
555 East Ocean Blvd.
Long Beach CA 90802
US

00-11-CD (hex) Axsun Technologies
0011CD (base 16) Axsun Technologies
1 Fortune Drive
Billerica MA 02460
US

00-11-9B (hex) Telesynergy Research Inc.
00119B (base 16) Telesynergy Research Inc.
4F, No. 49, Tung Hsin Rd.,
Taipei 110
TW

00-11-01 (hex) CET Technologies Pte Ltd
001101 (base 16) CET Technologies Pte Ltd
100 Jurong East Street 21
609602
SG

00-0F-FF (hex) Control4
000FFF (base 16) Control4
11734 S. Election Drive
Draper UT 84020
US

00-0F-FC (hex) Merit Li-Lin Ent.
000FFC (base 16) Merit Li-Lin Ent.
No. 20 Wu-Long 6 Rd.
Wu-Ku
Taipei 242
TW

00-0F-FB (hex) Nippon Denso Industry Co., Ltd.
000FFB (base 16) Nippon Denso Industry Co., Ltd.
3-14-19
Shibaura, Minato-ku Tokyo, 108-8560
JP

00-11-48 (hex) Prolon Control Systems

001148 (base 16) Prolon Control Systems
Herstedvesterstraede 56
Albertslund DK-2620
DK

00-11-40 (hex) Nanometrics Inc.
001140 (base 16) Nanometrics Inc.
250 Herzberg Rd.
Kanata Ontario K2K 2A1
CA

00-11-44 (hex) Assurance Technology Corp
001144 (base 16) Assurance Technology Corp
6304 Potomac Avenue
Alexandria Virginia 22307
US

00-11-3A (hex) SHINBORAM
00113A (base 16) SHINBORAM
4F DAHNWORLD BUILDING, 154-11 SAMSUNG-DONG
SEOUL 135-879
KR

00-11-12 (hex) Honeywell CMSS
001112 (base 16) Honeywell CMSS
8323 Lindbergh Ct
Sarasota FL 34243
US

00-0F-F2 (hex) Loud Technologies Inc.
000FF2 (base 16) Loud Technologies Inc.
16220 Wood-Red Rd. NE
Woodinville
WA 98072
US

00-0F-F1 (hex) nex-G Systems Pte.Ltd
000FF1 (base 16) nex-G Systems Pte.Ltd
25 Kallang Ave
339416
SG

00-0F-F3 (hex) Jung Myoung Communications&Technology
000FF3 (base 16) Jung Myoung Communications&Technology
1th FL., Dong IL Bldg.107 Yangjae-Dong
Seocho-Ku Seoul 137-130
KR

00-11-13 (hex) Fraunhofer FOKUS
001113 (base 16) Fraunhofer FOKUS
Kaiserin-Augusta-Allee 31
Berlin 10589
DE

00-0F-E0 (hex) NComputing Co.,Ltd.
000FE0 (base 16) NComputing Co.,Ltd.
6th Fl, JEI-Platz B/D
Seoul Gasan-dong Geumcheon-Gu 459-11
KR

00-0F-E3 (hex) Damm Cellular Systems A/S
000FE3 (base 16) Damm Cellular Systems A/S
Moellegade 68
Soenderborg DK-6400
DK

00-11-28 (hex) Streamit
001128 (base 16) Streamit
Flight Forum 3543
Eindhoven 5657 DW
NL

00-11-3F (hex) Alcatel DI
00113F (base 16) Alcatel DI
ZI lavoisier
EU Normandie
76260
FR

00-11-37 (hex) AICHI ELECTRIC CO., LTD.
001137 (base 16) AICHI ELECTRIC CO., LTD.
1
kasugai city aichi pref. 486-8666
JP

00-0F-D5 (hex) Schwechat - RISE
000FD5 (base 16) Schwechat - RISE
Am Concorde Park 2A
Schwechat 2320
AT

00-0F-67 (hex) West Instruments
000F67 (base 16) West Instruments
Unit 5, The Hyde, Lower Bevendean
Brighton East Sussex BN2 4JU
GB

00-0F-6E (hex) BBox
000F6E (base 16) BBox
Gyar u. 2. (115)
Budaors H-2040
HU

00-0F-6F (hex) FTA Communication Technologies
000F6F (base 16) FTA Communication Technologies
11, rue Pierre Werner
Betzdorf L-6832
LU

00-0F-63 (hex) Obzerv Technologies
000F63 (base 16) Obzerv Technologies
400 Jean Lesage
Quebec QC G1K8W1
CA

00-0F-65 (hex) icube Corp.
000F65 (base 16) icube Corp.
Olympia Center 2F,828-10,Yeoksam-dong,Kangnam-ku
Seoul South 135-935
KR

00-0F-CB (hex) 3Com
Ltd
000FCB (base 16) 3Com Ltd
Peoplebuilding 2
Hemel Hempstead Herts HP2 4NW
GB

00-0F-C5 (hex) KeyMed Ltd
000FC5 (base 16) KeyMed Ltd
KeyMed House
Southend on Sea Essex SS2 5QH
GB

00-0F-BF (hex) DGT Sp. z o.o.
000FBF (base 16) DGT Sp. z o.o.
ul. Jaskowa Dolina 15
Gdansk woj. pomorskie 80-252
PL

00-0F-BD (hex) MRV Communications (Networks) LTD
000FBD (base 16) MRV Communications (Networks) LTD
P.O Box 614
Yokneam 20692

IL

00-0F-B4 (hex) Timespace Technology
000FB4 (base 16) Timespace Technology
Blackstone Road
Huntingdon Cambridgeshire PE29 6TT
GB

00-0F-A6 (hex) S2 Security Corporation
000FA6 (base 16) S2 Security Corporation
6 Abbott Road
Wellesley MA 02481
US

00-0F-AA (hex) Nexus Technologies
000FAA (base 16) Nexus Technologies
10 National Ave.
Fletcher NC 28732
US

00-0F-A8 (hex) Photometrics, Inc.
000FA8 (base 16) Photometrics,
Inc.
3440 E Britannia Drive
Tucson AZ 85706-5006
US

00-0F-9D (hex) DisplayLink (UK) Ltd
000F9D (base 16) DisplayLink (UK) Ltd
Mount Pleasant House
Cambridge Cambridgeshire CB3 0RN
GB

00-0F-92 (hex) Microhard Systems Inc.
000F92 (base 16) Microhard Systems Inc.
#17, 2135-32Ave NE
Calgary AB T2E6Z3
CA

00-0F-89 (hex) Winnertec System Co., Ltd.
000F89 (base 16) Winnertec System Co., Ltd.
#405, 4th Floor. Ace-Techno Tower III, 197-48,
Seoul 152-766
KR

00-0F-5D (hex) Genexis BV
000F5D (base 16) Genexis BV
Lodewijktraat 1A

5652 AC Eindhoven
SE

00-0F-58 (hex) Adder Technology Limited
000F58 (base 16) Adder Technology Limited
Technology House
Bar Hill Cambridgeshire CB3 8SQ
GB

00-0F-71 (hex) Sanmei Electronics Co.,Ltd
000F71 (base 16) Sanmei Electronics Co.,Ltd
2-2-1,Seikai,Shimizu
Shizuoka 424-0924
JP

00-0F-6B (hex) GateWare
Communications GmbH
000F6B (base 16) GateWare Communications GmbH
Allersberger Strasse 185 F
Nuernberg Bavaria D-90461
DE

00-0E-CA (hex) WTSS Inc
000ECA (base 16) WTSS Inc
5999 Avenida Encinas
Carlsbad CA 92008
US

00-0E-CC (hex) Tableau, LLC
000ECC (base 16) Tableau, LLC
N8 W22195 Johnson Drive, Suite 100
Waukesha WI 53186
US

00-0E-D5 (hex) COPAN Systems Inc.
000ED5 (base 16) COPAN Systems Inc.
2605 Trade Centre Ave.
Longmont CO 80503
US

00-0E-C8 (hex) Zoran Corporation
000EC8 (base 16) Zoran Corporation
1390 Kifer Rd.
Sunnyvale CA 94086
US

00-0E-CB (hex) VineSys Technology
000ECB (base 16) VineSys Technology

3350 Scott Blvd. building 15-03
Santa Clara CA 95054
US

00-0E-D2 (hex) Filtronic plc
000ED2 (base 16) Filtronic plc
The Waterfront
Saltaire W Yorks BD18 3TT
GB

00-0E-D9 (hex) Aksys, Ltd.
000ED9 (base 16) Aksys, Ltd.
2
Marriott Drive
Lincolnshire IL 60069
US

00-0E-C2 (hex) Lowrance Electronics, Inc.
000EC2 (base 16) Lowrance Electronics, Inc.
12000 E. Skelly Drive
Tulsa OK 74128
US

00-0E-FB (hex) Macey Enterprises
000EFB (base 16) Macey Enterprises
P.O. Box 7267
Tempe AZ 85281
US

00-0E-FA (hex) Optoway Technology Incorporation
000EFA (base 16) Optoway Technology Incorporation
No. 38, Kuang Fu South Road
Hu Kou Hsin Chu 303
TW

00-0E-FD (hex) FUJINON CORPORATION
000EFD (base 16) FUJINON CORPORATION
1-324 UETAKE, KITA-KU,
SAITAMA CITY SAITAMA 331-9624
JP

00-0F-12 (hex) Panasonic Europe Ltd.
000F12 (base 16) Panasonic Europe Ltd.
Hesebergweg 49-51
Peine D-31228
DE

00-0F-0E (hex) WaveSplitter Technologies, Inc.

000F0E (base 16) WaveSplitter Technologies, Inc.
2248 North First Street
San Jose CA 95131
US

00-0F-0C (hex) SYNCHRONIC ENGINEERING
000F0C
(base 16) SYNCHRONIC ENGINEERING
25 CAP DARNETAL
DARNETAL FRANCE 76160
FR

00-0F-0B (hex) Kentima Technologies AB
000F0B (base 16) Kentima Technologies AB
Box 174
Staffanstorp Skåne 245 44
SE

00-0F-09 (hex) Private
000F09 (base 16) Private

00-0E-B6 (hex) Riverbed Technology, Inc.
000EB6 (base 16) Riverbed Technology, Inc.
680 Folsom St
San Francisco CA 94107
US

00-0E-B7 (hex) Knovative, Inc.
000EB7 (base 16) Knovative, Inc.
11245 West Bernardo Court
San Diego CA 92127
US

00-0F-21 (hex) Scientific Atlanta, Inc
000F21 (base 16) Scientific Atlanta, Inc
5030 Sugarloaf Parkway
Lawrenceville Ga 30042
US

00-0F-11 (hex) Prodrive B.V.
000F11 (base 16) Prodrive B.V.
P.O. 28030
Eindhoven 5602 JA
NL

00-0F-13 (hex) Nisca corporation
000F13 (base 16) Nisca corporation
430-1

Masuho-Cho Yamanashi-Ken 400-0593
JP

00-0F-14 (hex) Mindray
Co., Ltd.
000F14 (base 16) Mindray Co., Ltd.
Mindray Building, Keji 12th Road South
Shenzhen Guangdong 518057
CN

00-0F-46 (hex) SINAR AG
000F46 (base 16) SINAR AG
Stadtweg 24
Feuerthalen ZH CH-8245
CH

00-0F-41 (hex) Zipher Ltd
000F41 (base 16) Zipher Ltd
7 Faraday Building
Nottingham Nottinghamshire NG7 2QP
GB

00-0F-4D (hex) TalkSwitch
000F4D (base 16) TalkSwitch
1545 Carling Ave
Ottawa Ontario K1Z 8P9
CA

00-0E-DD (hex) SHURE INCORPORATED
000EDD (base 16) SHURE INCORPORATED
5800 W. TOUHY AVE.
NILES IL 60714
US

00-0E-DC (hex) Tellion INC.
000EDC (base 16) Tellion INC.
5th Fl. BONA Venture Town
Seoul Seocho-gu. 137-719
KR

00-0E-CD (hex) SKOV A/S
000ECD (base 16) SKOV A/S
Hedelund 4
Roslev DK-7870
DK

00-0E-F5 (hex) iPAC Technology Co., Ltd.
000EF5 (base 16) iPAC Technology Co., Ltd.

6F, No. 30, Shingjung Road, Neihu
Taipei
114
TW

00-0E-B1 (hex) Newcotech,Ltd
000EB1 (base 16) Newcotech,Ltd
Anyang Megavally 715-3
Anyang City Gueonggi-Do 431-160
KR

00-0E-B4 (hex) GUANGZHOU GAOKE COMMUNICATIONS TECHNOLOGY CO.LTD.
000EB4 (base 16) GUANGZHOU GAOKE COMMUNICATIONS TECHNOLOGY CO.LTD.
AVE. 398 ZHONGSHAN
GUANGZHOU GUANGDONG 510660
CN

00-0E-A9 (hex) Shanghai Xun Shi Communications Equipment Ltd. Co.
000EA9 (base 16) Shanghai Xun Shi Communications Equipment Ltd. Co.
Hi-Tech King World, Unit C603
Shanghai 200001
CN

00-0E-A3 (hex) CNCR-IT CO.,LTD,HangZhou P.R.CHINA
000EA3 (base 16) CNCR-IT CO.,LTD,HangZhou P.R.CHINA
Yinjiang mansion NO.5F Wenyi Road
HangZhou ZheJiang 310012
CN

00-0E-A2 (hex) McAfee, Inc
000EA2 (base 16) McAfee, Inc
350 SW 12th Avenue
Deerfield Beach FL 33442
US

00-0E-9B (hex) Ambit Microsystems Corporation
000E9B (base 16) Ambit Microsystems Corporation
5F-1,
5 Hsin-An Rd. Science-Based Industrial Park
Hsinchu 300
TW

00-0E-93 (hex) Milénio 3 Sistemas Electrónicos, Lda.
000E93 (base 16) Milénio 3 Sistemas Electrónicos, Lda.
Edifício Via Norte, R. Espido 164C S403
Maia Minho 4470-177
PT

00-0E-54 (hex) AlphaCell Wireless Ltd.
000E54 (base 16) AlphaCell Wireless Ltd.
22 Zarhin street
Raanana 43662
IL

00-0E-4E (hex) Waveplus Technology Co., Ltd.
000E4E (base 16) Waveplus Technology Co., Ltd.
347 HsinHu 2nd Rd., NeiHu
Taipei 114
TW

00-0E-4A (hex) Changchun Huayu WEBPAD Co.,LTD
000E4A (base 16) Changchun Huayu WEBPAD Co.,LTD
4370 Gaoxin Road, High-Tech
Changchun Jilin 130012
CN

00-0E-63 (hex) Lemke Diagnostics GmbH
000E63 (base 16) Lemke Diagnostics GmbH
Radeburger Str. 47
Volkersdorf Saxony 01468
DE

00-0E-5B (hex) ParkerVision - Direct2Data
000E5B (base 16) ParkerVision - Direct2Data
9432 Baymeadows Way
Jacksonville
FL 32246
US

00-0E-60 (hex) 360SUN Digital Broadband Corporation
000E60 (base 16) 360SUN Digital Broadband Corporation
2F-2, No.2, Jianba Rd.,
Chung Ho Taipei 235
TW

00-0E-76 (hex) GEMSOC INNOVISION INC.
000E76 (base 16) GEMSOC INNOVISION INC.
9F,No.516,Sec,1Neihu Rd.,
Taipei 114
TW

00-0E-7D (hex) Electronics Line 3000 Ltd.
000E7D (base 16) Electronics Line 3000 Ltd.
2 Granit St.
Petah Tikva Kiryar Arie 449130
IL

00-0E-78 (hex) Amtelco
000E78 (base 16) Amtelco
4800 Curtin Drive
McFarland WI 53558
US

00-0E-71 (hex) Gemstar Technology Development Ltd.
000E71 (base 16) Gemstar Technology Development Ltd.
Unit 201, Stulex house, 698 prince edward road east, san po kong, Kolwoon
Hong Kong 852
HK

00-0E-70 (hex) in2 Networks
000E70 (base 16) in2 Networks
320 W 200 S
SLC UT 84101
US

00-0E-41 (hex) NIHON MECHATRONICS CO.,LTD.
000E41
(base 16) NIHON MECHATRONICS CO.,LTD.
9-6 SHIOMIDAI, MIYAMAE-KU
KAWASAKI-SHI KANAGAWA-KEN 216-0013
JP

00-0E-3C (hex) Transact Technologies Inc
000E3C (base 16) Transact Technologies Inc
20 Bomax Drive
Ithaca New York 14850
US

00-0E-8D (hex) Systems in Progress Holding GmbH
000E8D (base 16) Systems in Progress Holding GmbH
Exerzierplatzstrasse 85
Graz Styria 8051
AT

00-0E-23 (hex) Incipient, Inc.
000E23 (base 16) Incipient, Inc.
230 Third Ave.
Waltham MA 02451
US

00-0E-25 (hex) Hannae Technology Co., Ltd
000E25 (base 16) Hannae Technology Co., Ltd
4F, Hyunjin Bldg., #798-30, Yeoksam-Dong
SEOUL 135-080

KR

00-0E-20 (hex) ACCESS Systems Americas, Inc.
000E20 (base 16) ACCESS Systems Americas, Inc.
1188 East Arques Avenue
Sunnyvale CA 94085
US

00-0E-21 (hex) MTU Friedrichshafen GmbH
000E21 (base 16) MTU Friedrichshafen GmbH
Maybachplatz 1
Friedrichshafen
Baden Wuertemberg 88040
DE

00-0E-22 (hex) Private
000E22 (base 16) Private

00-0E-1C (hex) Hach Company
000E1C (base 16) Hach Company
5600 Lindbergh Drive
Loveland CO 80538
US

00-0E-37 (hex) Harms & Wende GmbH & Co.KG
000E37 (base 16) Harms & Wende GmbH & Co.KG
Grossmoorkehre 9
Hamburg D-21079
DE

00-0E-31 (hex) Olympus Soft Imaging Solutions GmbH
000E31 (base 16) Olympus Soft Imaging Solutions GmbH
Johann-Krane-Weg 39
Münster 48149
DE

00-0E-2F (hex) Roche Diagnostics GmbH
000E2F (base 16) Roche Diagnostics GmbH
Roche Diabetes Care Insulin Delivery Systems
D-68305 Mannheim
DE

00-0E-2C (hex) Netcodec co.
000E2C (base 16) Netcodec co.
401 Daeion S/W Center, 48 Jangdong
Daejon 305-715
KR

00-0D-D4 (hex) Symantec Corporation
000DD4 (base 16) Symantec Corporation
275 2nd Ave
Waltham MA 02541
US

00-0D-D2 (hex) Simrad Optronics
ASA
000DD2 (base 16) Simrad Optronics ASA
Ensjøveienn 23B
PO Box 6114 Etterstad NO-0602 Oslo
NO

00-0D-D1 (hex) Stryker Corporation
000DD1 (base 16) Stryker Corporation
4100 E Milham
Kalamazoo MI 49001
US

00-0D-D7 (hex) Bright
000DD7 (base 16) Bright
1-12-44 Aobadai
Kashiwa-shi Chiba-ken 277-0055
JP

00-0D-D9 (hex) Anton Paar GmbH
000DD9 (base 16) Anton Paar GmbH
Anton-Paar-Strasse 20
Graz 8054
AT

00-0D-E4 (hex) DIGINICS, Inc.
000DE4 (base 16) DIGINICS, Inc.
178-7 Poi-dong
Kangnam-gu Seoul 135-961
KR

00-0D-DC (hex) VAC
000DDC (base 16) VAC
20F, N0. 456, Sec. 4, Hsin Yi Rd.,
Taipei 110
TW

00-0D-E0 (hex) ICPDAS Co.,LTD
000DE0 (base 16) ICPDAS Co.,LTD
No. 111, Kuang-Fu N. Rd., Hsin-Chu Indu
HSINCHU 303
TW

00-0D-E3 (hex) AT Sweden AB
000DE3 (base 16) AT Sweden AB
P.O. Box 1166
Kista Stockholm SE-164 26
SE

00-0D-C8
(hex) AirMagnet, Inc
000DC8 (base 16) AirMagnet, Inc
830 E. Arques Avenue
Sunnyvale CA 94085
US

00-0D-BE (hex) Bel Fuse Europe Ltd.,UK
000DBE (base 16) Bel Fuse Europe Ltd.,UK
45/46 Riverside 2
Rochester Kent ME2 4DP
GB

00-0D-C9 (hex) THALES Elektronik Systeme GmbH
000DC9 (base 16) THALES Elektronik Systeme GmbH
Fritz-Ludwig-Str. 1
Koblenz 56070
DE

00-0D-C5 (hex) EchoStar Global B.V.
000DC5 (base 16) EchoStar Global B.V.
Schuilenburglaan 5a
Almelo Overijssel 7604BJ
NL

00-0E-02 (hex) Advantech AMT Inc.
000E02 (base 16) Advantech AMT Inc.
657 Orly Ave.
Dorval Quebec H9P 1G1
CA

00-0D-EA (hex) Kingtel Telecommunication Corp.
000DEA (base 16) Kingtel Telecommunication Corp.
147 Kang Ning St.
Hsi Chih City Taipei Hsien 221
TW

00-0D-ED (hex) Cisco Systems, Inc
000DED (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose

CA 94568
US

00-0E-09 (hex) Shenzhen Coship Software Co.,LTD.
000E09 (base 16) Shenzhen Coship Software Co.,LTD.
7/F,Block A,W2 Bldg,Hi-Tech Industrial Park,Shenzhen,China
Shenzhen Guangdong 518057
CN

00-0E-05 (hex) WIRELESS MATRIX CORP.
000E05 (base 16) WIRELESS MATRIX CORP.
UNIT 1A-3751 NORTH FRASER WAY
BURNABY BC V5J 5G4
CA

00-0D-81 (hex) Pepperl+Fuchs GmbH
000D81 (base 16) Pepperl+Fuchs GmbH
Lilienthalstraße 200
Mannheim 68307
DE

00-0D-7A (hex) DiGATTO Asia Pacific Pte Ltd
000D7A (base 16) DiGATTO Asia Pacific Pte Ltd
190 Mddle Road, #19-05 Fortune Center
188979
SG

00-0D-77 (hex) FalconStor Software
000D77 (base 16) FalconStor Software
125 Baylis Rd
Melville NY 11747
US

00-0D-76 (hex) Hokuto Denshi Co,. Ltd.
000D76 (base 16) Hokuto Denshi Co,. Ltd.
3-7 Odori Nishi 16-Chome Chuoku
Sapporo Hokkaido 060-0042
JP

00-0D-7B (hex) Consensys
Computers Inc.
000D7B (base 16) Consensys Computers Inc.
215 Shields Ct.
Markham ON L3R 8V2
CA

00-0D-6C (hex) M-Audio
000D6C (base 16) M-Audio

45 E ST Joseph St.
Arcadia CA 91006
US

00-0D-5E (hex) NEC Personal Products
000D5E (base 16) NEC Personal Products
6-80, Shimohanazawa 2-Chome
Yonezawa-shi Yamagata 992-8520
JP

00-0D-5B (hex) Smart Empire Investments Limited
000D5B (base 16) Smart Empire Investments Limited
Suite 2001-2006,Level 20 Landmark North
Xin Jie Hong Kong 00852
CN

00-0D-59 (hex) Amity Systems, Inc.
000D59 (base 16) Amity Systems, Inc.
888 Tasman Drive
Milpitas CA 95035
US

00-0D-9F (hex) RF Micro Devices
000D9F (base 16) RF Micro Devices
2191 Zanker Road
San Jose CA 95131
US

00-0D-A5 (hex) Fabric7 Systems, Inc
000DA5 (base 16) Fabric7 Systems, Inc
1300 Crittenden Lane
Mountain View CA 94043
US

00-0D-99 (hex) Orbital
Sciences Corp.; Launch Systems Group
000D99 (base 16) Orbital Sciences Corp.; Launch Systems Group
3380 S. Price Rd.
Chandler, AZ 85248
US

00-0D-50 (hex) Galazar Networks
000D50 (base 16) Galazar Networks
35 Fitzgerald Ave
Ottawa ON K2H 1E6
CA

00-0D-49 (hex) Triton Systems of Delaware, Inc.

000D49 (base 16) Triton Systems of Delaware, Inc.
522 E. Railroad St.
Long Beach MS 39560
US

00-0D-48 (hex) AEWIN Technologies Co., Ltd.
000D48 (base 16) AEWIN Technologies Co., Ltd.
7F, No. 2, Lane 47, Sec. 3, Nan-Gang Rd.
TAIPEI 115
TW

00-0D-8F (hex) King Tsushin Kogyo Co., LTD.
000D8F (base 16) King Tsushin Kogyo Co., LTD.
1-10-1 Edanishi Aobaku
Yokohama 225-0014
JP

00-0D-89 (hex) Bils Technology Inc
000D89 (base 16) Bils Technology Inc
508 S River Oaks Drive
Indialantic FL 32903
US

00-0D-86 (hex) Huber + Suhner AG
000D86 (base 16) Huber + Suhner AG
Degersheimerstrasse
14
9100 Herisau
CH

00-0D-BC (hex) Cisco Systems, Inc
000DBC (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0D-70 (hex) Datamax Corporation
000D70 (base 16) Datamax Corporation
4501 Parkway Commerce Blvd
Orlando FL 32808
US

00-0D-6F (hex) Ember Corporation
000D6F (base 16) Ember Corporation
343 Congress St
Boston Ma 02210
US

00-0D-3F (hex) VTI Instruments Corporation
000D3F (base 16) VTI Instruments Corporation
5425 Warner Road, Suite 13
Valley View OH 44125
US

00-0C-E3 (hex) Option International N.V.
000CE3 (base 16) Option International N.V.
Kolonel Begaultlaan 45
Leuven Brabant 3012
BE

00-0C-E7 (hex) MediaTek Inc.
000CE7 (base 16) MediaTek Inc.
1F, No. 13, Innovation Road 1,
Hsinchu 300
TW

00-0C-E4 (hex) NeuroCom International, Inc.
000CE4 (base 16) NeuroCom International, Inc.
9570
SE Lawnfield Rd
Clackamas OR 97015
US

00-0C-E8 (hex) GuangZhou AnJuBao Co., Ltd
000CE8 (base 16) GuangZhou AnJuBao Co., Ltd
HeiQiaoTang TangXia TianHe
GuangZhou GuangDong 510665
CN

00-0C-D0 (hex) Symetrix
000CD0 (base 16) Symetrix
6408 216th St SW
Mountlake Terrace WA 98043
US

00-0C-D9 (hex) Itcare Co., Ltd
000CD9 (base 16) Itcare Co., Ltd
408 KT Seocho, 1001-1 Bangbae-dong,
Seoul 137-850
KR

00-0C-D5 (hex) Passave Inc.
000CD5 (base 16) Passave Inc.
1557 Jasper Dr.
Sunnyvale CA 94087
US

00-0C-CA (hex) HGST a Western Digital Company
000CCA (base 16) HGST a Western Digital Company
3403 Yerba Buena Road
San Jose CA 95135
US

00-0C-B5 (hex) Premier Technolgies, Inc
000CB5 (base 16) Premier Technolgies, Inc
PO Box 159
Long Lake MN 55356
US

00-0C-B6 (hex) NANJING SEU MOBILE & INTERNET TECHNOLOGY CO.,LTD
000CB6 (base 16) NANJING
SEU MOBILE & INTERNET TECHNOLOGY CO.,LTD
5th floor,Building 5,ChangJiangHou Street No.6
Nanjing Jiangsu 210018
CN

00-0C-C3 (hex) BeWAN systems
000CC3 (base 16) BeWAN systems
16 rue du Moulin des Bruyères Courbevoie
Courbevoie Hauts de Seine 92400
FR

00-0C-B4 (hex) AutoCell Laboratories, Inc.
000CB4 (base 16) AutoCell Laboratories, Inc.
174 Concord Street
Peterborough, New Hampshire 03458
US

00-0D-17 (hex) Turbo Networks Co.Ltd
000D17 (base 16) Turbo Networks Co.Ltd
2F,No 1223, Chung Cheng Rd.
Tao Yuan 330
TW

00-0D-18 (hex) Mega-Trend Electronics CO., LTD.
000D18 (base 16) Mega-Trend Electronics CO., LTD.
Tong Fu Yu Ind., Ku Keng Village, Guan Lan
Shengzhen Guang Dong 518110
CN

00-0D-20 (hex) ASAHIKASEI TECHNOSYSTEM CO.,LTD.
000D20 (base 16) ASAHIKASEI TECHNOSYSTEM CO.,LTD.
Kanda Jinbocho 1-105
Chiyoda-ku Tokyo 101-8101

JP

00-0D-0E (hex) Inqnet Systems,
Inc.
000D0E (base 16) Inqnet Systems, Inc.
321 NKIC Center,
Seoul 120-100
KR

00-0D-11 (hex) DENTSPLY - Gendex
000D11 (base 16) DENTSPLY - Gendex
901 West Oakton Street
Des Plaines IL 60018-1884
US

00-0D-04 (hex) Foxboro Eckardt Development GmbH
000D04 (base 16) Foxboro Eckardt Development GmbH
Glockenstrasse 52
Stuttgart Baden-Württemberg 70376
DE

00-0D-05 (hex) cybernet manufacturing inc.
000D05 (base 16) cybernet manufacturing inc.
5 holland
irvine ca 92618
US

00-0D-08 (hex) AboveCable, Inc.
000D08 (base 16) AboveCable, Inc.
8403 Colesville Road, #825
Silver Spring MD 20910
US

00-0D-25 (hex) SANDEN CORPORATION
000D25 (base 16) SANDEN CORPORATION
20 Kotobuki-cho
Isesaki-shi Gunma 372-8502
JP

00-0D-24 (hex) SENTEC E&E CO., LTD.
000D24 (base 16) SENTEC E&E CO., LTD.
No. 32. Gong5 Rd.
Lungtan Taoyuan 325
TW

00-0D-22 (hex) Unitronics
LTD
000D22 (base 16) Unitronics LTD

Unitronics Building
Ben Gurion Airport 70100
IL

00-0D-14 (hex) Vtech Innovation LP dba Advanced American Telephones
000D14 (base 16) Vtech Innovation LP dba Advanced American Telephones
203-600 Parsippany Rd
Parsippany NJ 07054
US

00-0A-07 (hex) WebWayOne Ltd
000A07 (base 16) WebWayOne Ltd
11 Kingfisher Court,
Newbury Berkshire RG14 5SJ
GB

00-0C-B0 (hex) Star Semiconductor Corporation
000CB0 (base 16) Star Semiconductor Corporation
6F, No.17, Li-Hsin Rd
Hsinchu City 300
TW

00-0C-34 (hex) Vixen Co., Ltd.
000C34 (base 16) Vixen Co., Ltd.
5-17-3 Higashitokorozawa
Tokorozawa Saitama 359-0021
JP

00-0D-3A (hex) Microsoft Corp.
000D3A (base 16) Microsoft Corp.
One Microsoft Way
Redmond Wa. 98052
US

00-0D-30 (hex) IceFyre Semiconductor
000D30 (base 16) IceFyre Semiconductor
Suite 300
Kanata Ontario K2K
3C9
CA

00-0D-31 (hex) Compellent Technologies, Inc.
000D31 (base 16) Compellent Technologies, Inc.
7625 Smetana Lane
Eden Prairie Minnesota 55344
US

00-0C-FE (hex) Grand Electronic Co., Ltd

000CFE (base 16) Grand Electronic Co., Ltd
Room 1710, Block B Lucky tower, No.3 Don
Beijing 100027
CN

00-0C-D2 (hex) Schaffner EMV AG
000CD2 (base 16) Schaffner EMV AG
Nordstrasse 1
Luterbach CH-4542
CH

00-0C-65 (hex) Sunin Telecom
000C65 (base 16) Sunin Telecom
1025-5 Dokok-Ri, Wabu-Eub
Namyangju-City Kyunggi-Do 472-900
KR

00-0C-6F (hex) Amtek system co.,LTD.
000C6F (base 16) Amtek system co.,LTD.
14F-11,No.79,Sec. 1 ,Hsin Tai Wu Rd.,
Taipei 221
TW

00-0C-6C (hex) Eve Systems GmbH
000C6C (base 16) Eve Systems GmbH
Rotkreuzplatz 1
Munich 80634
DE

00-0C-58 (hex) M&S Systems
000C58 (base 16) M&S Systems
2861 Congressman Lane
Dallas TX 75220
US

00-0C-B1
(hex) Salland Engineering (Europe) BV
000CB1 (base 16) Salland Engineering (Europe) BV
Bedrijvenpark Berkum
Zwolle OV 8024 HA
NL

00-0C-BC (hex) Iscutum
000CBC (base 16) Iscutum
#899-6 Ho-Gye Dong, Dong-An Gu
An-Yang City Kyong-Gi Do 431-080
KR

00-0C-A2 (hex) Harmonic Video Network
000CA2 (base 16) Harmonic Video Network
10 Ha'amal st. Park Afek
Rosh Ha'ayin 48092
IL

00-0C-A4 (hex) Promptttec Product Management GmbH
000CA4 (base 16) Promptttec Product Management GmbH
Mariatrosterstr. 41
Graz AUSTRIA A-8043
AT

00-0C-98 (hex) LETEK Communications Inc.
000C98 (base 16) LETEK Communications Inc.
Taeyang Bd. 2nd Floor, 2486
SongNam Kyunggi-do 462-824
KR

00-0C-8E (hex) Mentor Engineering Inc
000C8E (base 16) Mentor Engineering Inc
2891 Sunridge Way NE
Calgary Alberta T1Y7K7
CA

00-0C-7E (hex) Tellium Incorporated
000C7E (base 16) Tellium
Incorporated
2 Crescent Place
Oceanport New Jersey 07757
US

00-0C-73 (hex) TELSON ELECTRONICS CO., LTD
000C73 (base 16) TELSON ELECTRONICS CO., LTD
Telson Venture Tower., 949-3 Dogok-Dong
Seoul Kangnam-Ku 135-739
KR

00-0C-5B (hex) HANWANG TECHNOLOGY CO.,LTD
000C5B (base 16) HANWANG TECHNOLOGY CO.,LTD
8F,Automation Building,95 Zhongguancun,
Beijing 100080
CN

00-0C-60 (hex) ACM Systems
000C60 (base 16) ACM Systems
3034 Gold Canal Drive
Rancho Cordova CA 95670
US

00-0C-87 (hex) AMD
000C87 (base 16) AMD
4555 Great America Pkwy
Santa Clara CA 95054
US

00-0C-83 (hex) Logical Solutions
000C83 (base 16) Logical Solutions
100T Washington Street
Milford CT 06460
US

00-0C-51 (hex) Scientific Technologies Inc.
000C51 (base 16) Scientific Technologies Inc.
6550 Dumbarton Circle
Fremont CA 94560
US

00-0C-39 (hex) Sentinel Wireless Inc.
000C39
(base 16) Sentinel Wireless Inc.
439 S. Union St.
South Lawrence MA 01843
US

00-0C-96 (hex) OQO, Inc.
000C96 (base 16) OQO, Inc.
1800 Illinois Street
San Francisco CA 94124
US

00-0C-08 (hex) HUMEX Technologies Corp.
000C08 (base 16) HUMEX Technologies Corp.
5F, No.5, Lane 44, Szu Wei Rd. Taan Taip
Taipei 106
TW

00-0C-0D (hex) Communications & Power Industries / Satcom Division
000C0D (base 16) Communications & Power Industries / Satcom Division
811 Hansen Way MS S-600
Palo Alto CA 94303
US

00-0C-04 (hex) Tecnova
000C04 (base 16) Tecnova
2383 N Delany Rd
Waukegan IL 60087-1836

US

00-0B-F6 (hex) Nitgen Co., Ltd
000BF6 (base 16) Nitgen Co., Ltd
4th FL. 1337-31 Seocho-dong, Seocho-ku
Seoul 137-860
KR

00-0C-01 (hex) Abatron AG
000C01 (base 16) Abatron AG
Lettenstrasse 9
Rotkreuz CH-6343
CH

00-0B-F0 (hex) MoTEX Products Co.,
Ltd.
000BF0 (base 16) MoTEX Products Co., Ltd.
C.P.O.Box 6912
Chong-gu Seoul 82
KR

00-0B-F1 (hex) LAP Laser Applikations
000BF1 (base 16) LAP Laser Applikations
Zeppelinstraße 23
Lüneburg Niedersachsen 21337
DE

00-0B-EE (hex) inc.jet, Incorporated
000BEE (base 16) inc.jet, Incorporated
One Winnenden Road
Norwich CT 06360
US

00-0B-E2 (hex) Lumenera Corporation
000BE2 (base 16) Lumenera Corporation
2520B St. Laurent Blvd.
Ottawa Ontario K1B 4R8
CA

00-0B-E1 (hex) Nokia NET Product Operations
000BE1 (base 16) Nokia NET Product Operations
313 Fairchild Drive
Mountain View California 94043
US

00-0C-26 (hex) Weintek Labs. Inc.
000C26 (base 16) Weintek Labs. Inc.
3F, No.910, Chung Cheng Rd.

Chung Ho city Taipei Hsien 236
TW

00-0C-2B (hex) ELIAS Technology, Inc.
000C2B (base 16) ELIAS Technology, Inc.
3F, 1015, Yung-An Road,
Taoyuan City Taoyuan
330
TW

00-0C-1A (hex) Quest Technical Solutions Inc.
000C1A (base 16) Quest Technical Solutions Inc.
4110 Mourning Dove Crt.
Melbourne FL 32934
US

00-0C-24 (hex) ANATOR
000C24 (base 16) ANATOR
44, rue d'Estienne d'Orves
sartrouville yvelines 78500
FR

00-0C-19 (hex) Telio Communications GmbH
000C19 (base 16) Telio Communications GmbH
Elbchaussee 1
Hamburg 22765
DE

00-0C-1D (hex) Mettler & Fuchs AG
000C1D (base 16) Mettler & Fuchs AG
Querstrasse 17
CH-8951 Fahrweid
CH

00-0C-13 (hex) MediaQ
000C13 (base 16) MediaQ
2975 San Ysidro Way
Santa Clara CA 95051
US

00-0C-32 (hex) Avionic Design GmbH
000C32 (base 16) Avionic Design GmbH
Wragekamp 10
Hamburg 22397
DE

00-0C-33 (hex) Compucase Enterprise Co. Ltd.
000C33 (base 16) Compucase Enterprise Co. Ltd.

225 Lane 54, An Ho Road, Section 2nd.
Tainan City 70942
TW

00-0C-36 (hex) S-Takaya
Electronics Industry Co.,Ltd.
000C36 (base 16) S-Takaya Electronics Industry Co.,Ltd.
3121-1 Satomi Satosyo-cho
Asakuchi-gun Okayama 719-0301
JP

00-0C-2D (hex) FullWave Technology Co., Ltd.
000C2D (base 16) FullWave Technology Co., Ltd.
7F-6, No.26, TaiYuan St.,
JuBei Hsin Chu 302
TW

00-0B-FD (hex) Cisco Systems, Inc
000BFD (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0B-F4 (hex) Private
000BF4 (base 16) Private

00-0B-FA (hex) EXEMYS SRL
000BFA (base 16) EXEMYS SRL
LOYOLA 680
CAPITAL FEDERAL BS AS C1414
AR

00-0B-FB (hex) D-NET International Corporation
000BFB (base 16) D-NET International Corporation
15, Wu-Chuan 5th Road, Wu-Ku Industrial
Taipei Hsieh 248
US

00-0B-CB (hex) Fagor Automation , S. Coop
000BCB (base 16) Fagor Automation , S. Coop
San Andres s/n
Guipuzcoa 20500
ES

00-0B-C8 (hex) AirFlow
Networks
000BC8 (base 16) AirFlow Networks
444 Castro St

Mountain View Ca 94041
US

00-0B-CE (hex) Free2move AB
000BCE (base 16) Free2move AB
Sperlingsgatan 7
Halmstad Halland 30248
SE

00-0B-CF (hex) AGFA NDT INC.
000BCF (base 16) AGFA NDT INC.
50 Industrial Park Road
Lewistown PA 17044
US

00-0B-C3 (hex) Multiplex, Inc.
000BC3 (base 16) Multiplex, Inc.
5000 Hadley Rd.
S. Plainfield NJ 07040
US

00-0B-BE (hex) Cisco Systems, Inc
000BBE (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0B-E0 (hex) SercoNet Ltd.
000BE0 (base 16) SercoNet Ltd.
16 Ha'haroshet st.
Ra'anana 43657
IL

00-0B-40 (hex) Cambridge Industries Group (CIG)
000B40 (base 16) Cambridge Industries Group (CIG)
2560 Junction Avenue
San Jose 95134
US

00-0B-44 (hex) Concord Idea Corp.
000B44 (base 16) Concord Idea Corp.
498 Markland
Street, Unit 2
Markham Ontario L6C 1Z6
CA

00-0B-42 (hex) commax Co., Ltd.
000B42 (base 16) commax Co., Ltd.

513-11, Sangdaewon-Dong, Jungwon-Ku
Sungnam-City Kyunggi-Do 462-120
KR

00-0B-47 (hex) Advanced Energy
000B47 (base 16) Advanced Energy
1625 Sharp Point Drive
Fort Collins Colorado 80525
US

00-0B-7F (hex) Align Engineering LLC
000B7F (base 16) Align Engineering LLC
245 Highlands Drive
Friday Harbor WA 98250
US

00-0B-85 (hex) Cisco Systems, Inc
000B85 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0B-81 (hex) Kaparel Corporation
000B81 (base 16) Kaparel Corporation
97 Randall Drive
Waterloo Ontario N2V-1C5
CA

00-0B-A1 (hex) Fujikura Solutions Ltd.
000BA1 (base 16) Fujikura Solutions Ltd.
1565-6,Shirakusadai,Fukaya-shi
Saitama-ken 369-1106
JP

00-0B-A6 (hex) Miyakawa Electric Works Ltd.
000BA6 (base 16) Miyakawa
Electric Works Ltd.
2-1-6,
Yokohama Kanagawa 222-0001
JP

00-0B-93 (hex) Ritter Elektronik
000B93 (base 16) Ritter Elektronik
Leverkuser Straße 65
Remscheid NRW 42897
DE

00-0B-9B (hex) Sirius System Co, Ltd.

000B9B (base 16) Sirius System Co, Ltd.
3-27 Funado-cho
Ashiya Hyogo 659-0093
JP

00-0B-82 (hex) Grandstream Networks, Inc.
000B82 (base 16) Grandstream Networks, Inc.
1297 Beacon Street
Brookline MA 02446
US

00-0B-6E (hex) Neff Instrument Corp.
000B6E (base 16) Neff Instrument Corp.
700 South Myrtle Ave.
Monrovia CA 91016
US

00-0B-72 (hex) Lawo AG
000B72 (base 16) Lawo AG
Am Oberwald 8
Rastatt Baden-Württemberg 76437
DE

00-0B-78 (hex) TAIFATECH INC.
000B78 (base 16) TAIFATECH INC.
8F-1 No.289, Sec.2 Guangfu Rd.
Hsinchu 300
TW

00-0B-6C (hex) Sychip Inc.
000B6C (base 16) Sychip Inc.
2805 N. Dallas Parkway Suite
400
Plano Texas 75093
US

00-0B-8E (hex) Ascent Corporation
000B8E (base 16) Ascent Corporation
2-16-19, Kawaraya-machi, Chuo-Ku,
Osaka-City Osaka-Pref 542-0066
JP

00-0B-8F (hex) AKITA ELECTRONICS SYSTEMS CO.,LTD.
000B8F (base 16) AKITA ELECTRONICS SYSTEMS CO.,LTD.
85,AZA USHIRONO,AIKAWA,YUWA-MACHI
KAWABE-GUN AKITA-KEN 010-1231
JP

00-0B-8D (hex) Avvio Networks
000B8D (base 16) Avvio Networks
11 Donovan Dr
Bedford MA 01730
US

00-0B-BD (hex) Connexionz Limited
000BBD (base 16) Connexionz Limited
1 Show Place
Christchurch
NZ

00-0B-A8 (hex) HANBACK ELECTRONICS CO., LTD.
000BA8 (base 16) HANBACK ELECTRONICS CO., LTD.
306-7, Galma-dong, Seo-gu
Daejeon 302-171
KR

00-0B-A9 (hex) CloudShield Technologies, Inc.
000BA9 (base 16) CloudShield Technologies, Inc.
212 Gilbraltar Drive
Sunnyvale CA 94089
US

00-0B-5A (hex) HyperEdge
000B5A (base
16) HyperEdge
333 Pierce Road Suite #200
Itasca IL 60143
US

00-0B-4E (hex) Communications & Power Industries
000B4E (base 16) Communications & Power Industries
1000 Klein Road
Plano TX 75074
US

00-0B-4D (hex) Emuzed
000B4D (base 16) Emuzed
46750 Lakeview Boulevard
Fremont California 94538
US

00-0B-3D (hex) CONTAL OK Ltd.
000B3D (base 16) CONTAL OK Ltd.
Frana Mraza 2/289
Zilina 01124
SK

00-0B-31 (hex) Yantai ZhiYang Scientific and technology industry CO., LTD
000B31 (base 16) Yantai ZhiYang Scientific and technology industry CO., LTD
5F-4, NO. 64, Gong-Jian Rd.
Hsi-Chih City Taipei County 221
CN

00-91-D6 (hex) Crystal Group, Inc.
0091D6 (base 16) Crystal Group, Inc.
850 Kacena Rd.
Hiawatha IA 52233
US

00-0B-0F (hex) Bosch Rexroth
000B0F (base 16) Bosch Rexroth
Luchthavenweg 20
Eindhoven Noord Brabant NL5657 EB
NL

00-0B-0C (hex) Agile
Systems Inc.
000B0C (base 16) Agile Systems Inc.
575 Kumpf Drive
Waterloo Ontario N2V 1K3
CA

00-0B-0A (hex) dBm Optics
000B0A (base 16) dBm Optics
300 S. Public Road
Lafayette Colorado 80026
US

00-0B-09 (hex) Ifoundry Systems Singapore
000B09 (base 16) Ifoundry Systems Singapore
Block 1, Unit 101B, Innovation Centre, 1
637722
SG

00-0B-1D (hex) LayerZero Power Systems, Inc.
000B1D (base 16) LayerZero Power Systems, Inc.
3559 Townley Road
Shaker Heights OH 44122-5156
US

00-0B-19 (hex) Vernier Networks, Inc.
000B19 (base 16) Vernier Networks, Inc.
490 E. Middlefield Road
Mountain View CA 94043

US

00-0B-16 (hex) Communication Machinery Corporation
000B16 (base 16) Communication Machinery Corporation
402 E. Gutierrez St.
Santa Barbara CA 93101
US

00-0B-12 (hex) NURI Telecom Co., Ltd.
000B12 (base 16) NURI Telecom Co., Ltd.
B-10F Woolim Lion's
Valley 371-28
Geuncheon-gu Seoul 153-803
KR

00-0A-D2 (hex) JEPICO Corporation
000AD2 (base 16) JEPICO Corporation
Nishi-shinjyuku2-7-1
Shinjyuku-ku Tokyo 163-0729
JP

00-0A-C5 (hex) Color Kinetics
000AC5 (base 16) Color Kinetics
10 Milk Street
Boston Masachusetts 02108
US

00-0A-BD (hex) Rupprecht & Patashnick Co.
000ABD (base 16) Rupprecht & Patashnick Co.
25 Corporate Circle
Albany NY 12203
US

00-0A-A5 (hex) MAXLINK INDUSTRIES LIMITED
000AA5 (base 16) MAXLINK INDUSTRIES LIMITED
29A SHENZHEN SPECIAL ZONE
SHENZHEN GUANGDONG 518009
CN

00-0A-A9 (hex) Brooks Automation GmbH
000AA9 (base 16) Brooks Automation GmbH
Goeschwitzer Strasse 25
Jena Thuringia 07745
DE

00-0A-A2 (hex) SYSTEK INC.
000AA2 (base 16) SYSTEK INC.
JCOM BUILDING 402, OJEON-DONG 124-4,

UIWANG-SI GYUNGGI-DO 437-070
KR

00-0A-CB (hex) XPAK MSA Group
000ACB (base 16) XPAK
MSA Group
Care of: Molex Fiber Optics
Downers Grove IL 60515
US

00-0A-D5 (hex) Brainchild Electronic Co., Ltd.
000AD5 (base 16) Brainchild Electronic Co., Ltd.
No.209, Chung Yang Rd.,
Taipei 115
TW

00-0A-D6 (hex) BeamReach Networks
000AD6 (base 16) BeamReach Networks
755 North Mathilda Ave
Sunnyvale California 94086
US

00-0B-2F (hex) bplan GmbH
000B2F (base 16) bplan GmbH
Industriestrasse 23b
Steinbach Hessen 61449
DE

00-0B-24 (hex) AirLogic
000B24 (base 16) AirLogic
807-1, Bundangtechnopark D, 151,
Sungnam-Si Kyungki-Do 463-760
KR

00-0A-FE (hex) NovaPal Ltd
000AFE (base 16) NovaPal Ltd
Floor 6
Ealing London W5 2ST
GB

00-0A-FD (hex) Kentec Electronics
000AFD (base 16) Kentec Electronics
620 Allendale Rd
King of Prussia PA 19406
US

00-0A-EF (hex) OTRUM ASA
000AEF (base 16) OTRUM ASA

Brattekleiv
Færvik N-4818
NO

00-0A-E5
(hex) ScottCare Corporation
000AE5 (base 16) ScottCare Corporation
4791 West 150th Street
Cleveland Ohio 44135
US

00-0A-B0 (hex) LOYTEC electronics GmbH
000AB0 (base 16) LOYTEC electronics GmbH
Stolzenthalergasse 24/3
Vienna 1080
AT

00-0A-B5 (hex) Digital Electronic Network
000AB5 (base 16) Digital Electronic Network
8 rue du sacré coeur
Saint Laurent sur Sevre Vendee 85290
FR

00-0A-3A (hex) J-THREE INTERNATIONAL Holding Co., Ltd.
000A3A (base 16) J-THREE INTERNATIONAL Holding Co., Ltd.
No. 1, Yu-3 Rd., Youth Industrial Park
Yang-mei, Taoyuan Hsien 326
TW

00-0A-47 (hex) Allied Vision Technologies
000A47 (base 16) Allied Vision Technologies
Taschenweg 2a
Stadtroda Thüringen 07646
DE

00-0A-44 (hex) Avery Dennison Deutschland GmbH
000A44 (base 16) Avery Dennison Deutschland GmbH
Ohmstraße 3
Eching 85386
DE

00-0A-3C (hex) Enerpoint Ltd.
000A3C
(base 16) Enerpoint Ltd.
Kaivopuistontie 33
Rauma 26100
FI

00-0A-40 (hex) Crown Audio -- Harmanm International
000A40 (base 16) Crown Audio -- Harmanm International
1718 W. Mishawaka Rd
Elkhart IN 46517
US

00-0A-9B (hex) TB Group Inc
000A9B (base 16) TB Group Inc
4F NREG Hongo 3-chome Bldg., 3-26-6, Hngo, Bunkyo-ku,
Tokyo 113-003
JP

00-0A-84 (hex) Rainsun Enterprise Co., Ltd.
000A84 (base 16) Rainsun Enterprise Co., Ltd.
No.14-3 , Lane 235, Ho-Chen Road
ShinDian City TAIPEI 231
TW

00-0A-7E (hex) The Advantage Group
000A7E (base 16) The Advantage Group
1610 Des Peres Road
St. Louis MO 63131
US

00-0A-73 (hex) Scientific Atlanta
000A73 (base 16) Scientific Atlanta
5030 Sugarloaf Parkway
Lawrenceville Ga 30042
US

00-0A-69 (hex) SUNNY bell Technology Co., Ltd.
000A69 (base 16) SUNNY bell Technology Co., Ltd.
#502 BUWON B/D 107-45 BANPO-DONG
SEOUL
137-806
KR

00-0A-6C (hex) Walchem Corporation
000A6C (base 16) Walchem Corporation
5 Boynton Road
Holliston MA 01746
US

00-0A-6B (hex) Tadiran Telecom Business Systems LTD
000A6B (base 16) Tadiran Telecom Business Systems LTD
18 Hasivim St.
Petach Tikva 49105
IL

00-0A-5F (hex) almedio inc.
000A5F (base 16) almedio inc.
32-13, sakae-cho 2 chome
higashimurayama-shi tokyo 189-0013
JP

00-0A-28 (hex) Motorola
000A28 (base 16) Motorola
600 N. US Hwy 45
Libertyville IL 60048
US

00-0A-26 (hex) CEIA S.p.A.
000A26 (base 16) CEIA S.p.A.
Zona Industriale di Viciomaggio 54
Arezzo AR 52040
IT

00-0A-29 (hex) Pan Dacom Networking AG
000A29 (base 16) Pan Dacom Networking AG
Dreieich Plaza 1B
Dreieich Hessen D-63303
DE

00-0A-1D (hex) Optical Communications Products Inc.
000A1D (base 16) Optical Communications Products Inc.
20961 Knapp
St.
Chatsworth CA 91311
US

00-0A-61 (hex) Cellinx Systems Inc.
000A61 (base 16) Cellinx Systems Inc.
408 Woosung Character199 officetel
Seoul 135-856
KR

00-0A-5B (hex) Power-One as
000A5B (base 16) Power-One as
P.O. Box 1543
Drammen 3007
NO

00-0A-55 (hex) MARKEM Corporation
000A55 (base 16) MARKEM Corporation
150 Congress Street
Keene NH 03431

US

00-0A-91 (hex) HemoCue AB
000A91 (base 16) HemoCue AB
Box 1204
Ängelholm Skåne län 26223
SE

00-0A-98 (hex) M+F Gwinner GmbH & Co
000A98 (base 16) M+F Gwinner GmbH & Co
Weidenbaumsweg 91 a
Hamburg 21029
DE

00-0A-78 (hex) OLITEC
000A78 (base 16) OLITEC
B.P. 592
NANCY cedex 54009
FR

00-0A-7B (hex) Cornelius Consult
000A7B (base 16) Cornelius Consult
Im Vogelsang 21
Hattingen NRW 45527
DE

00-0A-4C (hex) Molecular Devices Corporation
000A4C (base 16) Molecular Devices
Corporation
1311 Orleans Drive
Sunnyvale CA 94089
US

00-0A-4D (hex) Noritz Corporation
000A4D (base 16) Noritz Corporation
5 Minami-Futami,
Akashi-shi Hyogo 674-0093
JP

00-0A-16 (hex) Lassen Research
000A16 (base 16) Lassen Research
31695 Forward Road
Manton CA 96059
US

00-0A-18 (hex) Vichel Inc.
000A18 (base 16) Vichel Inc.
3F Jang Bldg. 92-6 Yangjae-dong, Secho-g

Seoul 137-130
KR

00-09-ED (hex) CipherOptics
0009ED (base 16) CipherOptics
701 Corporate Center Drive
Raleigh North Carolina 27607
US

00-09-F2 (hex) Cohu, Inc., Electronics Division
0009F2 (base 16) Cohu, Inc., Electronics Division
3912 Calle Fortunada
San Diego CA 92123
US

00-09-DC (hex) Galaxis Technology AG
0009DC (base 16) Galaxis Technology AG
Steinmetzstraße 7
Lübeck Schleswig-Holstein 23556
DE

00-09-DD (hex) Mavin Technology Inc.
0009DD (base 16) Mavin
Technology Inc.
Room 305, Bldg. 52 No. 195-28
Chutung, Hsinchu 310
TW

00-0A-06 (hex) Teledex LLC
000A06 (base 16) Teledex LLC
6311 San Ignacio Avenue
San Jose CA 95119
US

00-0A-0D (hex) Amphenol
000A0D (base 16) Amphenol
Holzhauser Strasse 175
Berlin 13509
DE

00-09-F8 (hex) UNIMO TECHNOLOGY CO., LTD.
0009F8 (base 16) UNIMO TECHNOLOGY CO., LTD.
BANGBAE DONG 479-12
SEOUL 137-820
KR

00-09-FF (hex) X.net 2000 GmbH
0009FF (base 16) X.net 2000 GmbH

Koenigsberger Str. 2c
Reinheim 64354
DE

00-0A-03 (hex) ENDESA SERVICIOS, S.L.
000A03 (base 16) ENDESA SERVICIOS, S.L.
AVGDA PARAL.LEL, 51
BARCELONA 08004
ES

00-09-B5 (hex) 3J Tech. Co., Ltd.
0009B5 (base 16) 3J Tech. Co., Ltd.
342 Fushing N. Rd., 2F, Taipei, Taiwan
Taipei 104
TW

00-09-B8 (hex) Entise Systems
0009B8 (base 16) Entise Systems
10095 Judy Avenue
Cupertino CA 95014
US

00-09-AF
(hex) e-generis
0009AF (base 16) e-generis
13 rue du chene germain
cesson sevigne 35510
FR

00-09-AD (hex) HYUNDAI SYSCOMM, INC.
0009AD (base 16) HYUNDAI SYSCOMM, INC.
SAN 136-1, AMI-RI, BUBAL-EUB
ICHON KYOUNGKI-DO 467-701
KR

00-09-A9 (hex) Ikanos Communications
0009A9 (base 16) Ikanos Communications
47709 Fremont Blvd
Fremont CA 94538
US

00-09-9F (hex) VIDEX INC.
00099F (base 16) VIDEX INC.
1105 NE Circle Blvd
Corvallis OR 97330
US

00-09-A2 (hex) Interface Co., Ltd.

0009A2 (base 16) Interface Co., Ltd.
2-5-12-201 Kyonancho
Musashino-city Tokyo 180-0023
JP

00-09-A1 (hex) Telewise Communications, Inc.
0009A1 (base 16) Telewise Communications, Inc.
2050 Ringwood Avenue
San Jose CA 95131
US

00-09-BD (hex) Epygi Technologies, Ltd.
0009BD (base 16) Epygi Technologies, Ltd.
5040 Addison Circle
Addison Texas 75001
US

00-09-C2
(hex) Onity, Inc.
0009C2 (base 16) Onity, Inc.
2232 Northmont Parkway
Duluth GA 30096
US

00-09-C3 (hex) NETAS
0009C3 (base 16) NETAS
Alemdag Cad. No 171
ISTANBUL 81244
TR

00-09-FE (hex) Daisy Technologies, Inc.
0009FE (base 16) Daisy Technologies, Inc.
1209 Orange Street
City of Wilmington DE 19801
US

00-09-EB (hex) HuMANDATA LTD.
0009EB (base 16) HuMANDATA LTD.
1-2-10
Ibaraki Osaka 567-0034
JP

00-09-E8 (hex) Cisco Systems, Inc
0009E8 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-09-E9 (hex) Cisco Systems, Inc
0009E9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-09-CE (hex) SpaceBridge Semiconductor Corp.
0009CE (base 16) SpaceBridge Semiconductor Corp.
115 rue Champlain
Hull Quebec J8X3R1
CA

00-09-C6 (hex) Visionics Corporation
0009C6 (base 16) Visionics
Corporation
5600 Rowland Road
Minnetonka MN 55343
US

00-09-D1 (hex) SERANOA NETWORKS INC
0009D1 (base 16) SERANOA NETWORKS INC
CONCORD OFFICE CENTER
CONCORD MA 01742
US

00-09-6B (hex) IBM Corp
00096B (base 16) IBM Corp
3039 E Cornwallis Road
Research Triangle Park NC 27709-2195
US

00-09-6D (hex) Powernet Technologies Corp.
00096D (base 16) Powernet Technologies Corp.
371-51, Gasan-Dong Kumchon-Gu,
Seoul 153-803
KR

00-09-64 (hex) Hi-Techniques, Inc.
000964 (base 16) Hi-Techniques, Inc.
2515 Frazier Ave.
Madison WI 53713-1505
US

00-09-65 (hex) HyunJu Computer Co., Ltd.
000965 (base 16) HyunJu Computer Co., Ltd.
222-22, Hyunju B/D, Guro 3 Dong, Gurogu
Seoul 152-848
KR

00-09-6F (hex) Beijing Zhongqing Elegant Tech. Corp.,Limited
00096F (base 16) Beijing Zhongqing Elegant Tech. Corp.,Limited
Rm.508, A-Building, Shangdi Digital Scie
Beijing
100084
CN

00-09-5E (hex) Masstech Group Inc.
00095E (base 16) Masstech Group Inc.
2 East Beaver Creek Rd.
Richmond Hill Ontario L4B 2N3
CA

00-09-32 (hex) Omnilux
000932 (base 16) Omnilux
130 W. Union St.
Pasadena CA 91103
US

00-09-29 (hex) Sanyo Industries (UK) Limited
000929 (base 16) Sanyo Industries (UK) Limited
School Road
Lowestoft Suffolk NR33 9NA
GB

00-09-28 (hex) Telecore
000928 (base 16) Telecore
1800 North Glenville
Richardson TX 75081
US

00-09-7D (hex) SecWell Networks Oy
00097D (base 16) SecWell Networks Oy
P.O.BOX 174
Tampere 33101
FI

00-09-76 (hex) Datasoft ISDN Systems GmbH
000976 (base 16) Datasoft ISDN Systems GmbH
Schillerplatz 3
St. Poelten Lower Austria 3100
AT

00-09-7A (hex) Louis Design Labs.
00097A (base 16) Louis Design Labs.
2F,NO 4, Lane 497, Chung-Cheng Rd.,Hsin-
Hsin-Tien Taipei Hsien 231

TW

00-09-1B
(hex) Digital Generation Inc.
00091B (base 16) Digital Generation Inc.
5F, Ho-Sam B/D, #30-3, Bongchun6-Dong
Kwanak-Ku, Seoul 151-089
KR

00-09-1C (hex) CacheVision, Inc
00091C (base 16) CacheVision, Inc
1990 Concourse Drive
San Jose CA 95131
US

00-09-1A (hex) Macat Optics & Electronics Co., Ltd.
00091A (base 16) Macat Optics & Electronics Co., Ltd.
15/F., Macat Center, No. 63 Macat Road
Huizhou Guangdong 516001
CN

00-09-39 (hex) ShibaSoku Co.,Ltd.
000939 (base 16) ShibaSoku Co.,Ltd.
6-8 Shinbashi 4-chome
Minato-ku Tokyo 105-0004
JP

00-09-33 (hex) Ophit Co.Ltd.
000933 (base 16) Ophit Co.Ltd.
3F. Suntechnovil, 5-27 Mangpo-Dong ,
Kyungki-Do 137-070
KR

00-09-4F (hex) elmegt GmbH & Co. KG
00094F (base 16) elmegt GmbH & Co. KG
Kommunikationstechnik
Peine Niedersachsen D-31228
DE

00-09-43 (hex) Cisco Systems, Inc
000943 (base 16) Cisco Systems,
Inc
80 West Tasman Drive
San Jose CA 94568
US

00-09-59 (hex) Sitecsoft
000959 (base 16) Sitecsoft

7th Gugu BD. 145-18 Samsung-Dong
Seoul Seoul 135-090
KR

00-09-57 (hex) Supercaller, Inc.
000957 (base 16) Supercaller, Inc.
101 Saginaw Drive
Redwood City CA 94063
US

00-09-82 (hex) Loewe Opta GmbH
000982 (base 16) Loewe Opta GmbH
Industriestrasse 11
Kronach 96317
DE

00-09-83 (hex) GlobalTop Technology, Inc.
000983 (base 16) GlobalTop Technology, Inc.
#16 Nan-Ke 9th Road
Tainan 741
TW

00-08-B0 (hex) HUBER+SUHNER BKtel GmbH
0008B0 (base 16) HUBER+SUHNER BKtel GmbH
Benzstraße 4
41836 Hückelhoven-Baal NRW 41836
DE

00-08-AC (hex) BST GmbH
0008AC (base 16) BST GmbH
Remusweg 1
Bielefeld Nordrhein-Westfalen 33729
DE

00-08-AA (hex) KARAM
0008AA (base 16) KARAM
98-3, Hankangro 2-KA, Yongsan
Seoul 140-012
KR

00-08-AB
(hex) EnerLinx.com, Inc.
0008AB (base 16) EnerLinx.com, Inc.
3965 South Woodhill Lane
New Berlin WI 53151
US

00-08-AD (hex) Toyo-Linx Co., Ltd.

0008AD (base 16) Toyo-Linx Co., Ltd.
Hirakawa-Cho, Chiyada-ku,
Tokyo 102-0093
JP

00-08-79 (hex) CEM Corporation
000879 (base 16) CEM Corporation
P.O. Box 200
Matthews NC 28106
US

00-08-7D (hex) Cisco Systems, Inc
00087D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-08-75 (hex) Acorp Electronics Corp.
000875 (base 16) Acorp Electronics Corp.
8F, No.111-6,Shing Teh Rd,
San Chung Taipei Hsien 241
TW

00-08-6F (hex) Resources Computer Network Ltd.
00086F (base 16) Resources Computer Network Ltd.
Rm 324, Tech Centre, 72 Tat Chee Ave.,

HK

00-08-67 (hex) Uptime Devices
000867 (base 16) Uptime Devices
11724 Dunfries Lane
Austin Texas 78754
US

00-08-88 (hex) OULLIM
Information Technology Inc,.
000888 (base 16) OULLIM Information Technology Inc,.
a-10th FL,. IT Venture Tower,
Seoul 138-803
KR

00-08-85 (hex) EMS Dr. Thomas Wünsche
000885 (base 16) EMS Dr. Thomas Wünsche
Sonnenhang 3

DE

00-08-72 (hex) Sorenson Communications
000872 (base 16) Sorenson Communications
4192 South Riverboat Road
Salt Lake City UT 84123
US

00-08-7C (hex) Cisco Systems, Inc
00087C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-08-D2 (hex) ZOOM Networks Inc.
0008D2 (base 16) ZOOM Networks Inc.
13F,XinLuDao Building,No.1175,Nanshan Ro
Shen Zhen GuangDong Province 518052
US

00-08-C5 (hex) Liontech Co., Ltd.
0008C5 (base 16) Liontech Co., Ltd.
306, Wooyoung Techno Center, 273-15,
Seoul 133-831
KR

00-08-DF (hex) Alistel Inc.
0008DF (base 16) Alistel Inc.
Midori Bldg. 2F
Yokohama Kanagawa
222-0001
JP

00-08-DB (hex) Corrigent Systems
0008DB (base 16) Corrigent Systems
126 Yigal Alon
Tel Aviv 67443
IL

00-08-D8 (hex) Dowkey Microwave
0008D8 (base 16) Dowkey Microwave
4822 McGrath Street
Ventura Ca 93003
US

00-08-F2 (hex) C&S Technology
0008F2 (base 16) C&S Technology
C&S Venture Bldg., NonHyun-Dong,
SEOUL 135-829
KR

00-08-EA (hex) Motion Control Engineering, Inc
0008EA (base 16) Motion Control Engineering, Inc
11380 White Rock Road
Rancho Cordova CA 95742
US

00-08-ED (hex) ST&T Instrument Corp.
0008ED (base 16) ST&T Instrument Corp.
16 Shing-Gong Road, Yung-Kung Industrial
Yung-Kung Tainan 710
TW

00-08-9A (hex) Alcatel Microelectronics
00089A (base 16) Alcatel Microelectronics
Excelsiorlaan 44-46
B-1930 Zavantem
BE

00-08-A1 (hex) CNet Technology Inc.
0008A1 (base 16) CNet Technology Inc.
No.15, Park Avenue II, Science-Based
Ind
Hsin-Chu 300
TW

00-08-93 (hex) LE INFORMATION COMMUNICATION INC.
000893 (base 16) LE INFORMATION COMMUNICATION INC.
Rm, 4501, DA-Dong Chungang Circulation C
Seoul 152-721
KR

00-08-CA (hex) TwinHan Technology Co.,Ltd
0008CA (base 16) TwinHan Technology Co.,Ltd
13F-6,No 79,Sec 1,Hsin Tai Wu RD.,Hsi-Ch
Taipei Hsien 221
TW

00-08-B6 (hex) RouteFree, Inc.
0008B6 (base 16) RouteFree, Inc.
3400 Hillview Ave., Building 5
Palo Alto CA 94304
US

00-09-02 (hex) Redline Communications Inc.
000902 (base 16) Redline Communications Inc.
302 Town Centre Blvd
Markham ON L3R 0E8

CA

00-08-FA (hex) KEB Automation KG
0008FA (base 16) KEB Automation KG
Südstraße 38
Barntrup NRW D-32683
DE

00-07-EE (hex) telco Informationssysteme GmbH
0007EE (base 16) telco Informationssysteme GmbH
Schulstrasse 38

DE

00-07-E2 (hex) Bitworks, Inc.
0007E2
(base 16) Bitworks, Inc.
#1 Bitworks Way
Prairie Grove AR 72753
US

00-07-E6 (hex) edgeflow Canada Inc.
0007E6 (base 16) edgeflow Canada Inc.
329 March Road
K2K 2E1
CA

00-07-E5 (hex) Coup Corporation
0007E5 (base 16) Coup Corporation
1-24-4 Marusen 2nd Bld. 4F,
Tokyo
JP

00-07-DE (hex) eCopilt AB
0007DE (base 16) eCopilt AB
Veddestavagen 24

SE

00-07-DF (hex) Vbrick Systems Inc.
0007DF (base 16) Vbrick Systems Inc.
12 Beaumont Road
Wallingford CT 06492
US

00-07-C5 (hex) Gcom, Inc.
0007C5 (base 16) Gcom, Inc.
1800 Woodfield Dr.

Savoy IL 61874
US

00-07-C8 (hex) Brain21, Inc.
0007C8 (base 16) Brain21, Inc.
19F Mesa B/D, 204 Hoihyun-Dong
Seoul 100-051
KR

00-07-C1 (hex) Overture Networks, Inc.
0007C1 (base 16) Overture Networks, Inc.
637 Davis Drive
Morrisville NC 227560
US

00-07-C2 (hex) Netsys Telecom
0007C2
(base 16) Netsys Telecom
4F, KyungNam B/D, 830-48, YeokSam-Dong
Seoul 135-080
KR

00-08-16 (hex) Bluelon ApS
000816 (base 16) Bluelon ApS
Nattergalevej 6

DK

00-08-11 (hex) VOIX Corporation
000811 (base 16) VOIX Corporation
1991-3 4th Floor Top's Venture Tower
Seoul 138-090
KR

00-08-06 (hex) Raonet Systems, Inc.
000806 (base 16) Raonet Systems, Inc.
West Wing 14F, IT Venture Tower 78
Seoul 138-803
KR

00-07-F8 (hex) ITDevices, Inc.
0007F8 (base 16) ITDevices, Inc.
606 110th Ave. NE
Bellevue WA 98004
US

00-07-F3 (hex) Thinkengine Networks
0007F3 (base 16) Thinkengine Networks

100 Nickerson Road
Marlborough MA 01752
US

00-05-F9 (hex) TOA Corporation
0005F9 (base 16) TOA Corporation
2-1 Takamatsu-cho,
Hyogo 665-0043
JP

00-07-CA (hex) Creatix Polymedia Ges Fur Kommunikaitonssysteme
0007CA (base 16) Creatix Polymedia Ges
Fur Kommunikaitonssysteme
Heinrich-Barth-Straße 3

DE

00-08-26 (hex) Colorado Med Tech
000826 (base 16) Colorado Med Tech
6175 Longbow Dr.
Boulder CO 80301
US

00-08-1C (hex) @pos.com
00081C (base 16) @pos.com
3051 North First Street
San Jose CA 95134
US

00-08-5E (hex) PCO AG
00085E (base 16) PCO AG
Donaupark 11

DE

00-08-56 (hex) Gamatronic Electronic Industries Ltd.
000856 (base 16) Gamatronic Electronic Industries Ltd.
Hartum Street 14

IL

00-08-53 (hex) Schleicher GmbH & Co. Relaiswerke KG
000853 (base 16) Schleicher GmbH & Co. Relaiswerke KG
Pichelswerderstrasse 3-5

DE

00-07-44 (hex) Unico, Inc.

000744 (base 16) Unico, Inc.
3725 Nicholson Rd.
Franksville WI 53126
US

00-07-49 (hex) CENiX Inc.
000749 (base 16) CENiX Inc.
5141 California Avenue
Irvine CA 92612
US

00-07-39 (hex) Scotty Group Austria Gmbh
000739
(base 16) Scotty Group Austria Gmbh
Teslastrasse 4
8074 Grambach 8074
AT

00-07-3D (hex) Nanjing Postel Telecommunications Co., Ltd.
00073D (base 16) Nanjing Postel Telecommunications Co., Ltd.
No. 187, ShengZhou Road,
210004
CN

00-07-35 (hex) Flarion Technologies, Inc.
000735 (base 16) Flarion Technologies, Inc.
135 Route 202/206 South
Bedminster NJ 07921
US

00-07-4E (hex) IPFRONT Inc
00074E (base 16) IPFRONT Inc
4F ALT Bldg.,
Tokyo 101-0021
JP

00-07-52 (hex) Rhythm Watch Co., Ltd.
000752 (base 16) Rhythm Watch Co., Ltd.
321 Shinshukushinden, Showa-Machi,
344-0196
JP

00-07-4F (hex) Cisco Systems, Inc
00074F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-07-43 (hex) Chelsio Communications
000743 (base 16) Chelsio Communications
170 S. Whismon Rd.
Mountain View CA 94041-1512
US

00-07-47
(hex) Mecalc
000747 (base 16) Mecalc
PO Box 7958

ZA

00-07-AE (hex) Britestream Networks, Inc.
0007AE (base 16) Britestream Networks, Inc.
12401 Research Blvd.
Austin TX 78759
US

00-07-B1 (hex) Equator Technologies
0007B1 (base 16) Equator Technologies
1300 White Oaks Rd.
Campbell CA 95008
US

00-07-A7 (hex) A-Z Inc.
0007A7 (base 16) A-Z Inc.
5-5-17 Kamikoushien

JP

00-07-A6 (hex) Leviton Manufacturing Co., Inc.
0007A6 (base 16) Leviton Manufacturing Co., Inc.
4330 Michoud Blvd
New Orleans LA 70129
US

00-07-A3 (hex) Ositis Software, Inc.
0007A3 (base 16) Ositis Software, Inc.
6120 Stoneridge Mall Road
Pleasanton CA 94588
US

00-07-9A (hex) Verint Systems Inc
00079A (base 16) Verint Systems Inc
1800 Berlier, Suite 440
Laval, Quebec H7L 4S4
CA

00-07-74 (hex) GuangZhou Thinker Technology Co. Ltd.
000774 (base 16) GuangZhou
Thinker Technology Co. Ltd.
109 Zhongshan Ave., Tianhe District
510630
CN

00-07-98 (hex) Selea SRL
000798 (base 16) Selea SRL
Via A. Moro No. 69

IT

00-07-91 (hex) International Data Communications, Inc.
000791 (base 16) International Data Communications, Inc.
47873 Fremont Blvd.
Fremont CA 04538
US

00-07-79 (hex) Sungil Telecom Co., Ltd.
000779 (base 16) Sungil Telecom Co., Ltd.
#321, Gongdan-Dong,
730-030
KR

00-07-7E (hex) Elrest GmbH
00077E (base 16) Elrest GmbH
Leibnizstraße 10

DE

00-07-78 (hex) GERSTEL GmbH & Co. KG
000778 (base 16) GERSTEL GmbH & Co. KG
Eberhard-Gerstel-Platz 1
Mülheim an der Ruhr
DE

00-07-6D (hex) Flexlight Networks
00076D (base 16) Flexlight Networks
15 Atir Yeda St.

IL

00-07-8F (hex) Emkay Innovative Products
00078F (base 16) Emkay Innovative Products
53, Pao Hsing Rd., Hsintien City
Taipei

TW

00-07-82 (hex) Oracle Corporation
000782 (base 16) Oracle Corporation
500 Oracle Parkway
Redwood Shores CA 94065
US

00-07-86 (hex) Wireless Networks Inc.
000786 (base 16) Wireless Networks Inc.
#300, 3016 Fifth Ave. NE
T2A 6K4
CA

00-07-22 (hex) The Nielsen Company
000722 (base 16) The Nielsen Company
501 Brooker Creek Blvd.
Oldsmar FL 34677
US

00-07-1F (hex) European Systems Integration
00071F (base 16) European Systems Integration
455 Promenade Des Anglas

FR

00-07-21 (hex) Formac Elektronik GmbH
000721 (base 16) Formac Elektronik GmbH
Dofstraße 33

DE

00-07-5E (hex) Ametek Power Instruments
00075E (base 16) Ametek Power Instruments
4050 NW 121 Avenue
Coral Springs FL 33065
US

00-07-60 (hex) TOMIS Information & Telecom Corp.
000760 (base 16) TOMIS Information & Telecom Corp.
Youngdeungpo telephone office
- extensio
Seoul
KR

00-07-30 (hex) Hutchison OPTEL Telecom Technology Co., Ltd.
000730 (base 16) Hutchison OPTEL Telecom Technology Co., Ltd.

No. 28 Xinwai Street
Beijing
CN

00-06-E5 (hex) Fujian Newland Computer Ltd. Co.
0006E5 (base 16) Fujian Newland Computer Ltd. Co.
141F Sunshine Holiday Hotel
Fuzhou Fujian 350005
CN

00-06-DE (hex) Flash Technology
0006DE (base 16) Flash Technology
P.O. Box 681509
Franklin TN 37068
US

00-06-DF (hex) AIDONIC Corporation
0006DF (base 16) AIDONIC Corporation
2-7-10 Otsuka, Bunkyo-ku,
Tokyo, 112-0012
JP

00-06-DD (hex) AT & T Laboratories - Cambridge Ltd
0006DD (base 16) AT & T Laboratories - Cambridge Ltd
24a Trumpington Street
ENGLAND
GB

00-06-D1 (hex) Tahoe Networks, Inc.
0006D1 (base 16) Tahoe Networks, Inc.
3052 Orchard Drive
San Jose CA 95134
US

00-06-D4 (hex) Interactive Objects, Inc.
0006D4
(base 16) Interactive Objects, Inc.
12600 SE 38th St.
Bellevue WA 98006
US

00-06-CE (hex) DATENO
0006CE (base 16) DATENO
Rue Amiral Berenger

FR

00-06-C5 (hex) INNOVI Technologies Limited

0006C5 (base 16) INNOVI Technologies Limited
31st Floor, China Online Centre
Wanchai
HK

00-06-C6 (hex) lesswire AG
0006C6 (base 16) lesswire AG
Im Technologiepark 25

DE

00-06-B7 (hex) TELEM GmbH
0006B7 (base 16) TELEM GmbH
Lise-Meitner-Allee 31

DE

00-06-BC (hex) Macrolink, Inc.
0006BC (base 16) Macrolink, Inc.
1500 N Kellogg Dr.
Anaheim CA 92807
US

00-06-C2 (hex) Smartmatic Corporation
0006C2 (base 16) Smartmatic Corporation
6400 Congress Ave., Suite 1300
Boca Raton FL 33487
US

00-06-F0 (hex) Digeo, Inc.
0006F0 (base 16) Digeo, Inc.
8815 122nd Ave., NE
Kirkland WA 98033
US

00-07-00 (hex) Zettamedia Korea
000700
(base 16) Zettamedia Korea
Suite 1008, Kumkang Venturetel, 1108
Kyounggido,
KR

00-06-F2 (hex) Platys Communications
0006F2 (base 16) Platys Communications
3150A Coronado Dr.
Santa Clara CA 95054
US

00-06-FA (hex) IP SQUARE Co, Ltd.
0006FA (base 16) IP SQUARE Co, Ltd.
1-9-11, Hakataekihigashi,
Fukuoka 812-0013
JP

00-07-03 (hex) CSEE Transport
000703 (base 16) CSEE Transport
4, avenue du CANADA

FR

00-07-06 (hex) Sanritz Corporation
000706 (base 16) Sanritz Corporation
1-30-13, Narimasu,
175-0094
JP

00-06-EF (hex) Maxxan Systems, Inc.
0006EF (base 16) Maxxan Systems, Inc.
107 Bonaventura Drive
San Jose CA 95134
US

00-06-E9 (hex) Intime Corp.
0006E9 (base 16) Intime Corp.
324-4, Yangjae-dong, 2F

KR

00-06-EA (hex) ELZET80 Mikrocomputer GmbH&Co. KG
0006EA (base 16) ELZET80 Mikrocomputer GmbH&Co. KG
Theaterplatz
9

DE

00-06-54 (hex) Winpresa Building Automation Technologies GmbH
000654 (base 16) Winpresa Building Automation Technologies GmbH
Vivenotgasse 53/2

AT

00-06-B4 (hex) Vorne Industries, Inc.
0006B4 (base 16) Vorne Industries, Inc.
1445 Industrial Dr.
Itasca IL 60143-1849
US

00-06-AE (hex) Himachal Futuristic Communications Ltd
0006AE (base 16) Himachal Futuristic Communications Ltd
8, Commercial Complex
New Dehli 110048
IN

00-06-B0 (hex) Comtech EF Data Corp.
0006B0 (base 16) Comtech EF Data Corp.
2114 W. 7th St.
Tempe AZ 85281
US

00-07-08 (hex) Bitrage Inc.
000708 (base 16) Bitrage Inc.
100 Southpark Blvd.
Saint Augustine FL 32086
US

00-07-12 (hex) JAL Information Technology
000712 (base 16) JAL Information Technology
Network Solution Dep. JAL-Tamachi Bldg.
Tokyo
JP

00-07-13 (hex) IP One, Inc.
000713 (base 16) IP One, Inc.
Sammi
Bldg., 1004
Seoul, 135-083
KR

00-07-07 (hex) Interalia Inc.
000707 (base 16) Interalia Inc.
4110-79th Street N.W.
T3B 5C2
CA

00-06-96 (hex) Advent Networks
000696 (base 16) Advent Networks
9600 Great Hills Tr.
Austin TX 78759
US

00-06-8E (hex) HID Corporation
00068E (base 16) HID Corporation
9292 Jeronimo Road
Irvine CA 92618-1905

US

00-06-9B (hex) AVT Audio Video Technologies GmbH
00069B (base 16) AVT Audio Video Technologies GmbH
Rathsbergstraße 17

DE

00-06-93 (hex) Flexus Computer Technology, Inc.
000693 (base 16) Flexus Computer Technology, Inc.
8F-2, No.5, Alley22, Lane 513,
Taipei 114
TW

00-06-CA (hex) American Computer & Digital Components, Inc. (ACDC)
0006CA (base 16) American Computer & Digital Components, Inc. (ACDC)
440 Cloverleaf Drive
Baldwin Park CA 91706
US

00-06-8A (hex) NeuronNet Co. Ltd. R&D Center
00068A
(base 16) NeuronNet Co. Ltd. R&D Center
735-34 Dasung Bldg., Yuksam-dong,

KR

00-06-85 (hex) NetNearU Corporation
000685 (base 16) NetNearU Corporation
2908 Finfeather Road
Bryan TX 77801
US

00-06-7F (hex) Digeo, Inc.
00067F (base 16) Digeo, Inc.
8815 122nd Avenue NE
Kirkland WA 98033
US

00-06-83 (hex) Bravara Communications, Inc.
000683 (base 16) Bravara Communications, Inc.
2650 East Bayshore Road
Palo Alto CA 94303
US

00-06-55 (hex) Yipee, Inc.
000655 (base 16) Yipee, Inc.
555 International Drive

Williamsville NY 14221
US

00-06-34 (hex) GTE Airfone Inc.
000634 (base 16) GTE Airfone Inc.
2809 Butterfield
Oakbrook IL 60522
US

00-06-28 (hex) Cisco Systems, Inc
000628 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-06-1D (hex) MIP Telecom, Inc.
00061D (base 16) MIP Telecom, Inc.
3rd
Floor, Sangil BLDG,
Seoul 151-069
KR

00-05-F6 (hex) Young Chang Co. Ltd.
0005F6 (base 16) Young Chang Co. Ltd.
1432 Main Street
Waltham MA 02451
US

00-05-FC (hex) Schenck Pegasus Corp.
0005FC (base 16) Schenck Pegasus Corp.
2890 John R Road
Troy MI 48083
US

00-05-E8 (hex) TurboWave, Inc.
0005E8 (base 16) TurboWave, Inc.
555 South State
Orem UT 84058
US

A0-6A-00 (hex) Verilink Corporation
A06A00 (base 16) Verilink Corporation
127 Jetplex Circle
Madison AL 35758
US

00-05-F8 (hex) Real Time Access, Inc.
0005F8 (base 16) Real Time Access, Inc.

455 N. Canyons Pkwy.
Livermore CA 94550
US

00-06-50 (hex) Tiburon Networks, Inc.
000650 (base 16) Tiburon Networks, Inc.
200 Minuteman Rd.
Andover MA 01810
US

00-06-5E (hex) Photuris, Inc.
00065E (base 16) Photuris, Inc.
20 Corporate Place South
Piscataway NJ 08854
US

00-06-44 (hex) NextGen
Business Solutions, Inc
000644 (base 16) NextGen Business Solutions, Inc
KKS Higashi-Sapporo Bldg.3-5-3-24, Higashi-Sapporo
Shiroishi-ku, Sapporo-city Hokkaido 003-0003
JP

00-06-7A (hex) JMP Systems
00067A (base 16) JMP Systems
3rd Fl. Shinwha Bldg.,
Seocho-ku Seoul,
KR

00-06-73 (hex) TKH Security Solutions USA
000673 (base 16) TKH Security Solutions USA
12920 Cloverleaf Center Drive
Germantown MD 20874
US

00-06-76 (hex) Novra Technologies Inc.
000676 (base 16) Novra Technologies Inc.
900-330 St. Mary Avenue
Winnipeg Manitoba R3C 3Z5
CA

00-06-64 (hex) Fostex Corporation
000664 (base 16) Fostex Corporation
3-2-35, Musashino, Akishima,
Tokyo 196-0021
JP

00-06-45 (hex) Meisei Electric Co. Ltd.

000645 (base 16) Meisei Electric Co. Ltd.
249-1, Moriya-kou, Moriya
302-0192
JP

00-06-40 (hex) White Rock Networks
000640 (base 16) White Rock
Networks
Suite #900
Dallas TX 75252
US

00-06-3A (hex) Dura Micro, Inc.
00063A (base 16) Dura Micro, Inc.
13580 Fifth Street
Chino CA 91710
US

00-06-32 (hex) Mesco Engineering GmbH
000632 (base 16) Mesco Engineering GmbH
Wiesentalstraße 74

DE

00-06-0C (hex) Melco Industries, Inc.
00060C (base 16) Melco Industries, Inc.
1575 W. 124th Ave.
Denver CO 80234
US

00-06-0E (hex) IGYS Systems, Inc.
00060E (base 16) IGYS Systems, Inc.
7373 Lincoln Way
Garden Grove CA 92841
US

00-06-14 (hex) Prism Holdings
000614 (base 16) Prism Holdings
P.O. Box 901,
Gauteng
ZA

00-06-08 (hex) At-Sky SAS
000608 (base 16) At-Sky SAS
ZI Athelia 3, Voi Atlas

FR

00-06-19 (hex) Connection Technology Systems
000619 (base 16) Connection Technology Systems
18F-6, No. 79, Sec. 1,
Hsinchih Taipei,
TW

00-06-5D (hex) Heidelberg Web Systems
00065D
(base 16) Heidelberg Web Systems
121 Technology Dr.
Durham NH 03824
US

00-05-EB (hex) Blue Ridge Networks, Inc.
0005EB (base 16) Blue Ridge Networks, Inc.
14120 Parke Long Court
Chantilly VA 20151
US

00-05-D7 (hex) Vista Imaging, Inc.
0005D7 (base 16) Vista Imaging, Inc.
521 Taylor Way
San Carlos CA 94070
US

00-05-DB (hex) PSI Nentec GmbH
0005DB (base 16) PSI Nentec GmbH
Greschbachstraße12
Karlsruhe 76229
DE

00-05-DD (hex) Cisco Systems, Inc
0005DD (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-05-BE (hex) Kongsberg Seatex AS
0005BE (base 16) Kongsberg Seatex AS
Pirsenteret

NO

00-05-BD (hex) ROAX BV
0005BD (base 16) ROAX BV
Sterrenbergweg 29

NL

00-05-C1 (hex) A-Kyung Motion, Inc.
0005C1 (base 16) A-Kyung Motion, Inc.
54-10, Munjung-Dong
Seoul
KR

00-05-B6 (hex) INSYS
Microelectronics GmbH
0005B6 (base 16) INSYS Microelectronics GmbH
Hermann-Köhl-Straße 22

DE

00-05-B4 (hex) Aceex Corporation
0005B4 (base 16) Aceex Corporation
2F, No. 2, Alley 1, Sze-Wei Lane
23138
TW

00-05-98 (hex) CRONOS S.r.l.
000598 (base 16) CRONOS S.r.l.
Via cavour 58/A

IT

00-05-7E (hex) Eckelmann Steuerungstechnik GmbH
00057E (base 16) Eckelmann Steuerungstechnik GmbH
Berliner Strasse 161

DE

00-05-80 (hex) FibroLAN Ltd.
000580 (base 16) FibroLAN Ltd.
2 Hacarmel st., POB 544
Yokneam Illit 20692
IL

00-05-82 (hex) ClearCube Technology
000582 (base 16) ClearCube Technology
8834 Capital of Texas Hwy,
Austin TX 78759
US

00-05-C3 (hex) Pacific Instruments, Inc.
0005C3 (base 16) Pacific Instruments, Inc.
4080 Pike Lane
Concord CA 94520

US

00-05-B9 (hex) Airvana, Inc.
0005B9 (base 16) Airvana, Inc.
25
Industrial Ave.
Chlemsford MA 01824
US

00-05-BC (hex) Resource Data Management Ltd
0005BC (base 16) Resource Data Management Ltd
80 Johnstone Avenue,
Scotland G52 4NZ
GB

00-05-B7 (hex) Arbor Technology Corp.
0005B7 (base 16) Arbor Technology Corp.
5F, No. 738, Zhong Zheng Rd.,

TW

00-05-9B (hex) Cisco Systems, Inc
00059B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-05-9F (hex) Yotta Networks, Inc.
00059F (base 16) Yotta Networks, Inc.
2201 Avenue K
Plano TX 75074
US

00-05-D9 (hex) Techno Valley, Inc.
0005D9 (base 16) Techno Valley, Inc.
ASIC Venture Town 5F,
Seoul 135-072
KR

00-05-DC (hex) Cisco Systems, Inc
0005DC (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-05-D0 (hex) Solinet Systems
0005D0 (base 16) Solinet Systems
1200-180 Elgin St.

K2P 2K3
CA

00-05-87
(hex) Locus, Incorporated
000587 (base 16) Locus, Incorporated
5540 Research Park Drive
Madison WI 53711
US

00-05-90 (hex) Swissvoice Ltd.
000590 (base 16) Swissvoice Ltd.
Ziegelmattstrasse 1

CH

00-05-95 (hex) Alesis Corporation
000595 (base 16) Alesis Corporation
1633 26th Street
Santa Monica CA 90404
US

00-05-6A (hex) Heuft Systemtechnik GmbH
00056A (base 16) Heuft Systemtechnik GmbH
Brohltalstr 31-33
Deutschland
DE

00-05-68 (hex) Piltofish Networks AB
000568 (base 16) Piltofish Networks AB
Stora Badhusgatan 18-20

SE

00-05-62 (hex) Digital View Limited
000562 (base 16) Digital View Limited
2201 Nan Yang Plaza,
Kowloon
HK

00-05-78 (hex) Private
000578 (base 16) Private

00-05-72 (hex) Deonet Co., Ltd.
000572 (base 16) Deonet Co., Ltd.
#127-5 Jinyoung B/D 3th F,
Seoul
KR

00-05-76 (hex) NSM Technology
Ltd.
000576 (base 16) NSM Technology Ltd.
22 Floor, Times Tower
Koloon
HK

00-05-55 (hex) Japan Cash Machine Co., Ltd.
000555 (base 16) Japan Cash Machine Co., Ltd.
No. 3-15, 2-chome, Nishiwaki,
547-0035
JP

00-05-52 (hex) Xycotec Computer GmbH
000552 (base 16) Xycotec Computer GmbH
Karl-Heinz-Beckurts-Str. 4

DE

00-05-4A (hex) Ario Data Networks, Inc.
00054A (base 16) Ario Data Networks, Inc.
2890 Zanker Road, Suite 203
San Jose CA 95134
US

00-05-48 (hex) Disco Corporation
000548 (base 16) Disco Corporation
13-11 Omori-Kita 2-chome
Ota-ku Tokyo 143-8580
JP

00-04-F7 (hex) Omega Band, Inc.
0004F7 (base 16) Omega Band, Inc.
9020-I Capital of Texas Hghwy N
Austin TX 78759
US

00-04-EE (hex) Lincoln Electric Company
0004EE (base 16) Lincoln Electric Company
22801 St. Clair Avenue
Cleveland OH 44117-1199
US

00-04-F0 (hex) International
Computers, Ltd
0004F0 (base 16) International Computers, Ltd
1 Wenlock Way

UK
GB

00-05-27 (hex) SJ Tek Co. Ltd
000527 (base 16) SJ Tek Co. Ltd
Ho gae Dong 976-5, Dong An Ku,

KR

00-05-29 (hex) Shanghai Broadan Communication Technology Co., Ltd
000529 (base 16) Shanghai Broadan Communication Technology Co., Ltd
15F, Suntime International Mansion
200122
CN

00-05-2C (hex) Supreme Magic Corporation
00052C (base 16) Supreme Magic Corporation
Sun Towers Center Bldg., 13F
154-0024
JP

00-05-3E (hex) KID Systeme GmbH
00053E (base 16) KID Systeme GmbH
Luneburger Schanze 30

DE

00-05-3F (hex) VisionTek, Inc.
00053F (base 16) VisionTek, Inc.
1175 Lakeside Dr.
Gurnee IL 60031
US

00-05-3D (hex) Agere Systems
00053D (base 16) Agere Systems
1371 McCarthy Blvd.
Milpitas CA 95035
US

00-05-00 (hex) Cisco Systems, Inc
000500
(base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-05-19 (hex) Siemens Building Technologies AG,
000519 (base 16) Siemens Building Technologies AG,

Cerberus Division

CH

00-05-0D (hex) Midstream Technologies, Inc.
00050D (base 16) Midstream Technologies, Inc.
777 108th Ave. NE
Bellevue WA 98004-5140
US

00-04-DA (hex) Relax Technology, Inc.
0004DA (base 16) Relax Technology, Inc.
DBA/ Granite Digital
Union City CA 94587
US

00-04-E5 (hex) Glonet Systems, Inc.
0004E5 (base 16) Glonet Systems, Inc.
11Fl., Jeil Bldg., 94-46, 7Ka

KR

00-05-07 (hex) Fine Appliance Corp.
000507 (base 16) Fine Appliance Corp.
7Fl., No. 499,

TW

00-04-FD (hex) Japan Control Engineering Co., Ltd.
0004FD (base 16) Japan Control Engineering Co., Ltd.
1-5-1, Higashiamagawa, Takatsuki-shi

JP

00-05-35 (hex) Chip PC Ltd.
000535
(base 16) Chip PC Ltd.
20 A.L. Motzkin St.
Tirat Carmel 39100
IL

00-04-55 (hex) ANTARA.net
000455 (base 16) ANTARA.net
747 Camden Ave.
Campbell CA 95008
US

00-04-57 (hex) Universal Access Technology, Inc.

000457 (base 16) Universal Access Technology, Inc.
2 Fl., No. 5, Alley 22,
Nei Hu Taipei, TAIWAN 114
TW

00-04-AB (hex) Mavenir Inc.
0004AB (base 16) Mavenir Inc.
1700 International Parkway
Richardson TX 75081
US

00-04-A7 (hex) FabiaTech Corporation
0004A7 (base 16) FabiaTech Corporation
4F-3, No. 18, Lane 609
Taipei Hsien, TAIWAN R.O.C
TW

00-04-AA (hex) Jetstream Communications
0004AA (base 16) Jetstream Communications
5400 Hellyer Avenue
San Jose CA 95138-1005
US

00-04-A0 (hex) Verity Instruments, Inc.
0004A0 (base 16) Verity Instruments, Inc.
2901 Eisenhower St.
Carrollton TX 75007
US

00-04-9E (hex) Wirelink Co., Ltd.
00049E
(base 16) Wirelink Co., Ltd.
11F, Geoseong B/D 541, Dowha-Dong,
KOREA
KR

00-04-9A (hex) Cisco Systems, Inc
00049A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-04-D2 (hex) Adcon Telemetry GmbH
0004D2 (base 16) Adcon Telemetry GmbH
Inkustraße 24

AT

00-04-D3 (hex) Toyokeiki Co., Ltd.
0004D3 (base 16) Toyokeiki Co., Ltd.
Wada 3967-10, Matsumoto-City

JP

00-04-98 (hex) Mahi Networks
000498 (base 16) Mahi Networks
1039 N. McDowell Blvd.
Petaluma CA 94954
US

00-04-97 (hex) MacroSystem Digital Video AG
000497 (base 16) MacroSystem Digital Video AG
Schoellinger Feld 28

DE

00-04-88 (hex) Eurotherm Controls
000488 (base 16) Eurotherm Controls
741F Miller Drive
Lessburg VA 20175
US

00-04-4D (hex) Cisco Systems, Inc
00044D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-04-54
(hex) Quadriga UK
000454 (base 16) Quadriga UK
Baird House
ENGLAND
GB

00-04-48 (hex) Polaroid Corporation
000448 (base 16) Polaroid Corporation
300 Baker Avenue
Concord MA 01742
US

00-04-47 (hex) Acrowave Systems Co., Ltd.
000447 (base 16) Acrowave Systems Co., Ltd.
Maru B/D 86-6, Nonhyun-Dong
KOREA zip: 135-818
KR

00-04-85 (hex) PicoLight
000485 (base 16) PicoLight
4665 Nautilus Court South
Boulder CO 80301
US

00-04-79 (hex) Radius Co., Ltd.
000479 (base 16) Radius Co., Ltd.
1-48-11, Itabashi

JP

00-04-D5 (hex) Hitachi Information & Communication Engineering, Ltd.
0004D5 (base 16) Hitachi Information & Communication Engineering, Ltd.
Queen's Tower B21F, 2-3-3, Minatomirai,
Nishi-ku, Yokohama, 220-6121
JP

00-04-CA (hex) FreeMs Corp.
0004CA (base 16) FreeMs Corp.
Shinhan Bldg. 6F,
Seoul 150-736 KOREA
KR

00-04-C5
(hex) ASE Technologies, USA
0004C5 (base 16) ASE Technologies, USA
6721 Baum Dr.
Knoxville TN 37919
US

00-04-B0 (hex) ELESIGN Co., Ltd.
0004B0 (base 16) ELESIGN Co., Ltd.
9Fl. TaeKyoung Bldg.,
R.O. KOREA
KR

00-04-6D (hex) Cisco Systems, Inc
00046D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-04-66 (hex) ARMITEL Co.
000466 (base 16) ARMITEL Co.
F5, Doman Plaza 353-4,
Republic of KOREA

KR

00-04-3E (hex) Telencomm
00043E (base 16) Telencomm
2551 Walsh Avenue
Santa Clara CA 95051
US

00-04-36 (hex) ELANsat Technologies, Inc.
000436 (base 16) ELANsat Technologies, Inc.
No. 11, Lane 19, Pateh Road,
Hsinchu TAIWAN, R.O.C.
TW

00-04-35 (hex) InfiNet LLC
000435 (base 16) InfiNet LLC
Office 425, 69/75 Vavilova str.
Moscow\ 117335
RU

00-04-32 (hex) Voyetra Turtle Beach, Inc.
000432 (base 16) Voyetra
Turtle Beach, Inc.
150 Clearbrook Road, Suite 162
Elmsford NY 10523
US

00-04-37 (hex) Powin Information Technology, Inc.
000437 (base 16) Powin Information Technology, Inc.
8F, No. 70, Zhou-Z St.
TAIWAN TAIWAN R.O.C.
TW

00-04-14 (hex) Umezawa Musen Denki Co., Ltd.
000414 (base 16) Umezawa Musen Denki Co., Ltd.
14-3, Minami 1, Nishi 8,
Hokkaido JAPAN 060-0061
JP

00-04-0C (hex) Kanno Works, Ltd.
00040C (base 16) Kanno Works, Ltd.
1-5-25 Kamitomino,

JP

00-04-08 (hex) Sanko Electronics Co., Ltd.
000408 (base 16) Sanko Electronics Co., Ltd.
3-802 ueda tenpaku-ku

nagoya
JP

00-04-09 (hex) Cratos Networks
000409 (base 16) Cratos Networks
313 Littleton Road
Chelmsford MA 01824
US

00-04-07 (hex) Topcon Positioning Systems, Inc.
000407 (base 16) Topcon Positioning Systems, Inc.
5758 W. Las Positas Blvd.
Pleasanton CA 94588
US

00-03-CD
(hex) Clovertech, Inc.
0003CD (base 16) Clovertech, Inc.
3-1-5 Naka-cho Musashino-shi
Tokyo 180-0006
JP

00-03-CC (hex) Momentum Computer, Inc.
0003CC (base 16) Momentum Computer, Inc.
1815 Aston Avenue
Carlsbad CA 92008-7310
US

00-03-EE (hex) MKNet Corporation
0003EE (base 16) MKNet Corporation
711-B Charcot Ave.
San Jose CA 95131
US

00-03-EA (hex) Mega System Technologies, Inc.
0003EA (base 16) Mega System Technologies, Inc.
2F, No. 41, Lane 76,
Taipei Taipei TAIWAN
TW

00-03-E6 (hex) Entone, Inc.
0003E6 (base 16) Entone, Inc.
2755 Campus Dr Ste 235
San Mateo CA 94403
US

00-03-D7 (hex) NextNet Wireless, Inc.
0003D7 (base 16) NextNet Wireless, Inc.

9555 James Ave. So.
Bloomington MN 55431
US

00-03-D3 (hex) Internet Energy Systems, Inc.
0003D3 (base 16) Internet Energy Systems, Inc.
4218 Trumbo Ct.
Fairfax VA 22033
US

00-03-E2
(hex) Comspace Corporation
0003E2 (base 16) Comspace Corporation
955 Freeport Pkwy
Coppell TX 75019
US

00-03-FF (hex) Microsoft Corporation
0003FF (base 16) Microsoft Corporation
1 Microsoft Way
Redmond WA 98052
US

00-03-B5 (hex) Entra Technology Co.
0003B5 (base 16) Entra Technology Co.
Fl. 3, No. 5, Alley 2,
TAIWAN TAIWAN R.O.C.
TW

00-04-28 (hex) Cisco Systems, Inc
000428 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-03-A9 (hex) AXCENT Media AG
0003A9 (base 16) AXCENT Media AG
Technologiepark 13

DE

00-03-62 (hex) Vodtel Communications, Inc.
000362 (base 16) Vodtel Communications, Inc.
12F, No 166 Chien-Yi Road
235
TW

00-03-64 (hex) Scenix Semiconductor, Inc.

000364 (base 16) Scenix Semiconductor, Inc.
1330 Charleston Rd.
Mountainview CA 94043
US

00-03-5E (hex) Metropolitan Area Networks, Inc.
00035E
(base 16) Metropolitan Area Networks, Inc.
1299 Pennsylvania Avenue, NW
Washington DC 20004
US

00-03-5C (hex) Saint Song Corp.
00035C (base 16) Saint Song Corp.
4F, No. 12, Lane 94, Tsao Ti Wzi
222
TW

00-03-5D (hex) Bosung Hi-Net Co., Ltd.
00035D (base 16) Bosung Hi-Net Co., Ltd.
Youngil B/O 2F,
137-130
KR

00-03-8B (hex) PLUS-ONE I&T, Inc.
00038B (base 16) PLUS-ONE I&T, Inc.
7F, A-San Venture Tower,
KOREA
KR

00-03-8C (hex) Total Impact
00038C (base 16) Total Impact
295 Willis Ave.
Camarillo CA 93010
US

00-03-86 (hex) Ho Net, Inc.
000386 (base 16) Ho Net, Inc.
Venture Company Center
KOREA 442-760
KR

00-80-37 (hex) Ericsson Group
008037 (base 16) Ericsson Group
Telefonaktiebolaget

SE

00-03-3D (hex) ILSHin Lab
00033D (base 16) ILSHin Lab
KCS B/D 228-13 Young Dap-Dong
Seoul
KR

00-03-34 (hex) Omega
Engineering Inc.
000334 (base 16) Omega Engineering Inc.
800 Connecticut Ave. Suite 5N01,
Norwalk CT 06854
US

00-03-3A (hex) Silicon Wave, Inc.
00033A (base 16) Silicon Wave, Inc.
6256 Greenwich Drive
San Diego CA 92122
US

00-03-32 (hex) Cisco Systems, Inc
000332 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-03-7D (hex) Stellcom
00037D (base 16) Stellcom
10525 Vista Sorrento Parkway
San Diego CA 92121
US

00-03-83 (hex) Metera Networks, Inc.
000383 (base 16) Metera Networks, Inc.
1202 Richardson Dr.
Richardson TX 75080
US

00-03-79 (hex) Proscend Communications, Inc.
000379 (base 16) Proscend Communications, Inc.
2F, No.36, Industry E. Rd. IV,
Hsinchu 300
TW

00-03-6F (hex) Telsey SPA
00036F (base 16) Telsey SPA
Viale Dell Industria, 1
DiTreviso-
IT

00-03-72 (hex) ULAN
000372 (base 16) ULAN
5F-3,
No. 31-1, Lane 169,
TAIWAN TAIWAN R.O.C.
TW

00-03-66 (hex) ASM Pacific Technology
000366 (base 16) ASM Pacific Technology
12/F Watson Centre
Kwai Chung
HK

00-03-9F (hex) Cisco Systems, Inc
00039F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-03-90 (hex) Digital Video Communications, Inc.
000390 (base 16) Digital Video Communications, Inc.
500 W. Cummings Park
Woburn MA 07801
US

00-03-4D (hex) Chiaro Networks, Ltd.
00034D (base 16) Chiaro Networks, Ltd.
P.O. Box 832427
Richardson TX 75083-2427
US

00-03-41 (hex) Axon Digital Design
000341 (base 16) Axon Digital Design
Lange Wagenstraat 55

NL

00-03-22 (hex) IDIS Co., Ltd.
000322 (base 16) IDIS Co., Ltd.
7th Floor, 646-7 Yuksam-Dong,

KR

00-03-1D (hex) Taiwan Commate Computer, Inc.
00031D (base 16) Taiwan Commate Computer, Inc.
8F,

No. 94, Sec 1,

TW

00-03-26 (hex) Iwasaki Information Systems Co., Ltd.
000326 (base 16) Iwasaki Information Systems Co., Ltd.
3361 Oshi

JP

00-02-90 (hex) Woorigisool, Inc.
000290 (base 16) Woorigisool, Inc.
Yoopoong Bldg.
Seoul Seoul KOREA
KR

00-02-92 (hex) Logic Innovations, Inc.
000292 (base 16) Logic Innovations, Inc.
6205 Lusk Blvd.
San Diego CA 92121-2731
US

00-02-86 (hex) Occam Networks
000286 (base 16) Occam Networks
4183 State Street
Santa Barbara CA 93110
US

00-10-95 (hex) Thomson Inc.
001095 (base 16) Thomson Inc.
101 West 103rd Street
Indianapolis IN 46290-1102
US

00-02-7B (hex) Amplify Net, Inc.
00027B (base 16) Amplify Net, Inc.
47381 Bayside Parkway
Fremont CA 94538
US

00-02-73 (hex) Coriolis Networks
000273 (base 16) Coriolis Networks
330 Codmanhill Road
Boxborough MA 01719
US

00-02-B4 (hex) DAPHNE
0002B4

(base 16) DAPHNE
101 Chaussee De Binche

BE

00-02-B0 (hex) Hokubu Communication & Industrial Co., Ltd.
0002B0 (base 16) Hokubu Communication & Industrial Co., Ltd.
Fushiogami-aza-oki 27-1
Fukushima 960-8514
JP

00-02-AA (hex) PLcom Co., Ltd.
0002AA (base 16) PLcom Co., Ltd.
Hosung B/D, #1083-1, Hogye-Dong
South Korea
KR

00-02-9D (hex) Merix Corp.
00029D (base 16) Merix Corp.
Jin-Su Building, 49-16
Seoul Seoul KOREA
KR

00-02-D2 (hex) Workstation AG
0002D2 (base 16) Workstation AG
Schaffhauserstrasse 55

CH

00-02-CD (hex) TeleDream, Inc.
0002CD (base 16) TeleDream, Inc.
Shinhwa Bldg., 940-10 Daechi-Dong

KR

00-02-D0 (hex) Comdial Corporation
0002D0 (base 16) Comdial Corporation
1180 Seminole Trail
Charlottesville VA 22901
US

00-02-CC (hex) M.C.C.I
0002CC (base 16) M.C.C.I
3520 Krums Corners Rd.
Ithaca
NY 14850
US

00-02-E8 (hex) E.D.&A.
0002E8 (base 16) E.D.&A.
Energielaan 16

BE

00-02-D9 (hex) Reliable Controls
0002D9 (base 16) Reliable Controls
120 Hallowell Road
Victoria, B.C. V9A 7K2
CA

00-03-0E (hex) Core Communications Co., Ltd.
00030E (base 16) Core Communications Co., Ltd.
3F Shopping Center Bd. of
Seoul (121-050) (121-050)
KR

00-03-12 (hex) TRsystems GmbH
000312 (base 16) TRsystems GmbH
Eglishalde 16
Trossingen Baden-Wuerttemberg D-78647
DE

00-02-F2 (hex) eDevice, Inc.
0002F2 (base 16) eDevice, Inc.
420 Lexington Avenue
New York NY 10170
US

00-02-EF (hex) CCC Network Systems Group Ltd.
0002EF (base 16) CCC Network Systems Group Ltd.
13 Farnborough Business Centre
ENGLAND
GB

00-02-C5 (hex) Evertz Microsystems Ltd.
0002C5 (base 16) Evertz Microsystems Ltd.
5292 John Lucas Drive
Ontario L7L 5Z9
CA

00-02-B5
(hex) Avnet, Inc.
0002B5 (base 16) Avnet, Inc.
2211 S. 47th Street
Phoenix AZ 85034
US

00-02-7E (hex) Cisco Systems, Inc
00027E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-02-7F (hex) ask-technologies.com
00027F (base 16) ask-technologies.com
36 Wellington Business Park

GB

00-02-49 (hex) Aviv Infocom Co, Ltd.
000249 (base 16) Aviv Infocom Co, Ltd.
962-5, Kwanyang-Dong, Dongan-Gu,
Korea (ROK)
KR

00-02-45 (hex) Lampus Co, Ltd.
000245 (base 16) Lampus Co, Ltd.
6th Bldg., Samgong,
Korea Korea 137-044
KR

00-02-46 (hex) All-Win Tech Co., Ltd.
000246 (base 16) All-Win Tech Co., Ltd.
11F, No. 111-7, Hsing De Rd.,
Taipei Hsien Taiwan, R.O.C.
TW

00-02-1C (hex) Network Elements, Inc.
00021C (base 16) Network Elements, Inc.
9782 SW Nimbus Avenue
Beaverton OR 97008
US

00-02-0C (hex) Metro-Optix
00020C
(base 16) Metro-Optix
2201 Avenue K
Plano TX 75074
US

00-02-16 (hex) Cisco Systems, Inc
000216 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568

US

00-02-14 (hex) DTVRO
000214 (base 16) DTVRO
813 Daegong Bldg.,
KOREA KOREA 135-080
KR

00-02-3A (hex) ZSK Stickmaschinen GmbH
00023A (base 16) ZSK Stickmaschinen GmbH
Magdeburger Straße 38-40

DE

00-02-32 (hex) Avision, Inc.
000232 (base 16) Avision, Inc.
No. 20, Creation Rd. 1,
Hsinchu Taiwan, R.O.C.
TW

00-02-35 (hex) Paragon Networks International
000235 (base 16) Paragon Networks International
61 Commerce Drive
Brookfield CT 06804
US

00-02-37 (hex) Cosmo Research Corp.
000237 (base 16) Cosmo Research Corp.
Cosmo Bldg, 3-148-5

KW

00-02-28 (hex) Necsom, Ltd.
000228 (base 16) Necsom, Ltd.
Necsom Ltd. c/o Koirsto

FI

00-02-5D (hex) Calix
Networks
00025D (base 16) Calix Networks
1035 North McDowell Blvd.
Petaluma CA 94954
US

00-02-57 (hex) Microcom Corp.
000257 (base 16) Microcom Corp.
8333A Green Meadows Dr. N.

Westerville OH 43081
US

00-02-53 (hex) Televideo, Inc.
000253 (base 16) Televideo, Inc.
2345 Harris Way
San Jose CA 95131
US

00-02-4A (hex) Cisco Systems, Inc
00024A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-02-6F (hex) Senao International Co., Ltd.
00026F (base 16) Senao International Co., Ltd.
2F, No. 531, Chung-Cheng Rd.,
TAIWAN
TW

00-01-ED (hex) SETA Corp.
0001ED (base 16) SETA Corp.
Ariake Frontier Bldg. B
JAPAN 135-0063
JP

00-01-EA (hex) Cirilium Corp.
0001EA (base 16) Cirilium Corp.
1615 S. 52nd Street
Tempe AZ 85281
US

00-02-0F (hex) AATR
00020F (base 16) AATR
306 Chemin des Miroirs

FR

00-01-F6
(hex) Association of Musical Electronics Industry
0001F6 (base 16) Association of Musical Electronics Industry
Ito Bldg. 4th Floor 2-16-9 Misaki-cho,

JP

00-01-E0 (hex) Fast Systems, Inc.
0001E0 (base 16) Fast Systems, Inc.

87-9 Yang-Jae, Seo-Cho,
KOREA
KR

00-01-D6 (hex) manroland AG
0001D6 (base 16) manroland AG
Stadtbachstraße 1

DE

00-02-30 (hex) Intersoft Electronics
000230 (base 16) Intersoft Electronics
Lammerdries 27

BE

00-01-66 (hex) TC GROUP A/S
000166 (base 16) TC GROUP A/S
Sindalsvej 34
Risskov DK-8240
DK

00-01-71 (hex) Allied Data Technologies
000171 (base 16) Allied Data Technologies
Pascalweg 1,
THE
NL

00-01-76 (hex) Orient Silver Enterprises
000176 (base 16) Orient Silver Enterprises
8740 White Oak Avenue
Rancho Cucamonga CA 91730
US

00-01-58 (hex) Electro Industries/Gauge Tech
000158
(base 16) Electro Industries/Gauge Tech
1800 Shames Drive
Westbury NY 11590
US

00-01-2A (hex) Telematica Sistems Inteligente
00012A (base 16) Telematica Sistems Inteligente
Rua Miguel Casagrande, 200
São Paulo
BR

00-01-2D (hex) Komodo Technology

00012D (base 16) Komodo Technology
170 Knowles Drive
Los Gatos CA 95032
US

00-01-48 (hex) X-traWeb Inc.
000148 (base 16) X-traWeb Inc.
6750 West 93rd Street - Ste. #210
Overland Park KS 66212
US

00-30-AC (hex) Systeme Lauer GmbH & Co., Ltd.
0030AC (base 16) Systeme Lauer GmbH & Co., Ltd.
Kelterstrasse 59
72669 Unterensingen
DE

00-01-AC (hex) Sitara Networks, Inc.
0001AC (base 16) Sitara Networks, Inc.
60 Hickory Drive
Waltham MA 02451
US

00-01-AD (hex) Coach Master International d.b.a. CMI Worldwide, Inc.
0001AD (base 16) Coach Master International d.b.a. CMI Worldwide, Inc.
600 Stewart Street
Seattle
WA 98101
US

00-01-9B (hex) Kyoto Microcomputer Co., Ltd.
00019B (base 16) Kyoto Microcomputer Co., Ltd.
2-44 nakayama oe nishikyo-ku
kyoto
JP

00-01-88 (hex) LXCO Technologies ag
000188 (base 16) LXCO Technologies ag
Gimmerstraße 69

DE

00-01-7F (hex) Experience Music Project
00017F (base 16) Experience Music Project
110 -110th Avenue NE - Ste. #400
Bellevue WA 98004
US

00-01-87 (hex) I2SE GmbH
000187 (base 16) I2SE GmbH
Friedrich-Ebert-Str. 61
Leipzig 04109
DE

00-01-CB (hex) EVR
0001CB (base 16) EVR
12 Raul Wallenberg St.
Tel Aviv 69719
IL

00-01-C3 (hex) Acromag, Inc.
0001C3 (base 16) Acromag, Inc.
30765 S. Wixom Road
Wixom MI 48393
US

00-01-C2 (hex) ARK Research Corp.
0001C2 (base 16) ARK Research Corp.
1198 Saratoga Ave. #11D
San Jose CA 95129
US

00-01-97 (hex) Cisco Systems, Inc
000197 (base 16) Cisco
Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-01-80 (hex) AOpen, Inc.
000180 (base 16) AOpen, Inc.
6F, 88, Sec.1, Hsin Tai
TAIWAN TAIWAN R.O.C.
TW

00-01-5A (hex) Digital Video Broadcasting
00015A (base 16) Digital Video Broadcasting
DVB, % European Broadcasting Union

CH

00-01-59 (hex) S1 Corporation
000159 (base 16) S1 Corporation
R&D Center, S1 Bldg.
KOREA 135-010
KR

00-01-9A (hex) LEUNIG GmbH
00019A (base 16) LEUNIG GmbH
Wilhelm-Ostwald-Str. 17

DE

00-01-3A (hex) SHELCAD COMMUNICATIONS, LTD.
00013A (base 16) SHELCAD COMMUNICATIONS, LTD.
P.O. Box 8513

IL

00-01-40 (hex) Sendtek Corporation
000140 (base 16) Sendtek Corporation
12F-3, 333, Sec.1
TAIWAN
TW

00-01-23 (hex) Schneider Electric Japan Holdings Ltd.
000123 (base 16) Schneider Electric Japan Holdings Ltd.
Schneider Electric Osaka Building
4-4-9
Kitahama Chuo-ku, Osaka 541-0041
JP

00-01-25 (hex) YAESU MUSEN CO., LTD.
000125 (base 16) YAESU MUSEN CO., LTD.
Tennozu Parkside Building
Shinagawa-ku, Tokyo 140-0002
JP

00-01-26 (hex) PAC Labs
000126 (base 16) PAC Labs
3079 Kilgore Road
Rancho Cordova CA 95670
US

00-01-1B (hex) Unizone Technologies, Inc.
00011B (base 16) Unizone Technologies, Inc.
5Floor HaeSung Bldg.
SeoCho-Ku Seoul
KR

00-B0-F0 (hex) CALY NETWORKS
00B0F0 (base 16) CALY NETWORKS
295 Santa Anna Court
Sunnyvale CA 94086

US

00-B0-9A (hex) Morrow Technologies Corp.
00B09A (base 16) Morrow Technologies Corp.
2300 Tall Pines Drive
Largo FL 33771-5342
US

00-30-A9 (hex) Netiverse, Inc.
0030A9 (base 16) Netiverse, Inc.
100 Century Center Court
San Jose CA 95112
US

00-30-FE (hex) DSA GmbH
0030FE (base 16) DSA GmbH
Pascalstraße 28
52076 Aachen
DE

00-30-C4
(hex) Canon Imaging Systems Inc.
0030C4 (base 16) Canon Imaging Systems Inc.
1-24 Yoneyama, Chuo-ku
Niigata-shi Niigata 950-0916
JP

00-30-4D (hex) ESI
00304D (base 16) ESI
3701 E. Plano Parkway
Plano TX 75074
US

00-30-D5 (hex) DResearch GmbH
0030D5 (base 16) DResearch GmbH
Otto-Schmirgal-Str.3
10319 Berlin
DE

00-30-18 (hex) Jetway Information Co., Ltd.
003018 (base 16) Jetway Information Co., Ltd.
4F, No. 168, LI THE ST.
Chung Ho City 235 Taipei
TW

00-30-89 (hex) Spectrapoint Wireless, LLC
003089 (base 16) Spectrapoint Wireless, LLC
1125 E. Collins Blvd.

Richardson TX 75081
US

00-01-1D (hex) Centillium Communications
00011D (base 16) Centillium Communications
47211 Lakeview Blvd.
Fremont CA 94538
US

00-01-1F (hex) RC Networks, Inc.
00011F (base 16) RC Networks, Inc.
6727 Flanders Drive - Ste. #212
San Diego CA 92121
US

00-B0-80
(hex) Mannesmann Ipulsys B.V.
00B080 (base 16) Mannesmann Ipulsys B.V.
Bordewijklaan 18
2591 XR The Hague
NL

00-B0-1E (hex) Rantic Labs, Inc.
00B01E (base 16) Rantic Labs, Inc.
702 Brazos, Suite #500
Austin TX 78701
US

00-30-FB (hex) AZS Technology AG
0030FB (base 16) AZS Technology AG
Steinbeisstrasse 2-4
72510 Stetten A.K.M.
DE

00-30-03 (hex) Phasys Ltd.
003003 (base 16) Phasys Ltd.
#100-9404 41st Avenue
Edmonton Alberta T6X 1R2
CA

00-30-AE (hex) Times N System, Inc.
0030AE (base 16) Times N System, Inc.
1826 Kramer Lane - Ste.
Austin TX 78758
US

00-30-E2 (hex) GARNET SYSTEMS CO., LTD.
0030E2 (base 16) GARNET SYSTEMS CO., LTD.

Sungwon Bldg. 545-7
Seoul
KR

08-14-43 (hex) UNIBRAIN S.A.
081443 (base 16) UNIBRAIN S.A.
84, ETHNIKIS ANTISTASEOS

GR

00-B0-09 (hex) Grass Valley, A Belden Brand
00B009 (base
16) Grass Valley, A Belden Brand
3499, Douglas B. Floreani
Montreal Quebec H4S 2C6
CA

00-B0-AC (hex) SIAE-Microelettronica S.p.A.
00B0AC (base 16) SIAE-Microelettronica S.p.A.
Via Michelangelo Buonarroti, 21
20093 Cologno M. (Ml)
IT

00-30-2E (hex) Hoft & Wessel AG
00302E (base 16) Hoft & Wessel AG
Rotenburger Strasse 20
30659 Hannover
DE

00-30-ED (hex) Expert Magnetics Corp.
0030ED (base 16) Expert Magnetics Corp.
12/F., Unit D, MTG Bldg., 1-3, Nakase
Mihama-ku, Chiba-city, 261-8501
JP

00-30-0F (hex) IMT - Information Management T
00300F (base 16) IMT - Information Management T
Gewerbestrasse 8
CH-9470 Buchs
CH

00-30-82 (hex) TAIHAN ELECTRIC WIRE CO., LTD.
003082 (base 16) TAIHAN ELECTRIC WIRE CO., LTD.
Communication Engineering Team
Seoul
KR

00-30-E6 (hex) Draeger Medical Systems, Inc.

0030E6 (base 16) Draeger Medical Systems, Inc.
6
Tech Drive
Andover MA 01810
US

00-30-62 (hex) IP Video Networks Inc
003062 (base 16) IP Video Networks Inc
6650 Lusk Blvd
SAN DIEGO CA 92121
US

00-30-2D (hex) QUANTUM BRIDGE COMMUNICATIONS
00302D (base 16) QUANTUM BRIDGE COMMUNICATIONS
ONE HIGH STREET
NORTH ANDOVER MA 01845
US

00-30-CB (hex) OMNI FLOW COMPUTERS, INC.
0030CB (base 16) OMNI FLOW COMPUTERS, INC.
10701 CORPORATE DRIVE-STE.#300
STAFFORD TX 77477
US

00-30-6B (hex) CMOS SYSTEMS, INC.
00306B (base 16) CMOS SYSTEMS, INC.
23440 HAWTHORNE BLVD-STE #290
TORRANCE CA 90505
US

00-30-AD (hex) SHANGHAI COMMUNICATION
0030AD (base 16) SHANGHAI COMMUNICATION
TECHNOLOGIES CENTER
P.R.
CN

00-30-90 (hex) CYRA TECHNOLOGIES, INC.
003090 (base 16) CYRA TECHNOLOGIES, INC.
8000 CAPWELL DRIVE
OAKLAND CA 94621
US

00-30-A7 (hex) SCHWEITZER ENGINEERING
0030A7 (base 16) SCHWEITZER ENGINEERING
LABORATORIES,
INC.
PULLMAN WA 99163
US

00-30-23 (hex) COGENT COMPUTER SYSTEMS, INC.
003023 (base 16) COGENT COMPUTER SYSTEMS, INC.
10 RIVER ROAD - STE. #205
UXBRIDGE MA 01569
US

00-30-7C (hex) ADID SA
00307C (base 16) ADID SA
70 RU ANATOLE FRANCE
92 300 LEVALLOIS-PERRET CEDEX
FR

00-30-9A (hex) ASTRO TERRA CORP.
00309A (base 16) ASTRO TERRA CORP.
11526 SORRENTO VALLEY ROAD
SAN DIEGO CA 92121
US

00-30-9F (hex) AMBER NETWORKS
00309F (base 16) AMBER NETWORKS
2475 AUGUSTINE DR.
SANTA CLARA CA 95054
US

00-30-A8 (hex) OL'E COMMUNICATIONS, INC.
0030A8 (base 16) OL'E COMMUNICATIONS, INC.
1962 ZANKER ROAD
SAN JOSE CA 95112
US

00-30-D1 (hex) INOVA CORPORATION
0030D1 (base 16) INOVA CORPORATION
110 AVON STREET
CHARLOTTESVILE VA 22902
US

00-30-CF (hex) TWO TECHNOLOGIES, INC.
0030CF (base 16) TWO TECHNOLOGIES, INC.
419 SARGON WAY
HORSHAM
PA 19044
US

00-30-B2 (hex) L-3 Sonoma EO
0030B2 (base 16) L-3 Sonoma EO
428 Aviation Blvd
Santa Rosa CA 95403

US

00-30-35 (hex) Corning Incorporated
003035 (base 16) Corning Incorporated
Data Center
Corning NY 14831
US

00-30-7F (hex) IRLAN LTD.
00307F (base 16) IRLAN LTD.
1 HATAMAR STREET

IL

00-30-AA (hex) AXUS MICROSYSTEMS, INC.
0030AA (base 16) AXUS MICROSYSTEMS, INC.
2F-4, NO.18/N. 609, SEC. 5
TAIWAN TAIWAN R.O.C.
TW

00-30-5D (hex) DIGITRA SYSTEMS, INC.
00305D (base 16) DIGITRA SYSTEMS, INC.
8-61, GAWOL-DONG
KOREA 140-150
KR

00-30-55 (hex) Renesas Technology America, Inc.
003055 (base 16) Renesas Technology America, Inc.
450 Holger Way
San Jose CA 95134
US

00-30-2F (hex) GE Aviation System
00302F (base 16) GE Aviation System
3290 Patterson Ave., S.E.
Grand Rapids MI 49512
US

00-30-0E (hex) Klotz Digital
AG
00300E (base 16) Klotz Digital AG
Hans-Stiessbergerstraße 2A
D-85540 Haar
DE

00-30-BB (hex) CacheFlow, Inc.
0030BB (base 16) CacheFlow, Inc.
650 Almanor Drive

Sunnyvale CA 94086
US

00-30-07 (hex) OPTI, INC.
003007 (base 16) OPTI, INC.
1440 MCCARTHY BLVD.
MILPITAS CA 95035
US

00-30-BD (hex) BELKIN COMPONENTS
0030BD (base 16) BELKIN COMPONENTS
501 WEST WALNUT STREET
COMPTON CA 90220
US

00-30-87 (hex) VEGA GRIESHABER KG
003087 (base 16) VEGA GRIESHABER KG
AM HOHENSTEIN 113

DE

00-D0-C2 (hex) BALTHAZAR TECHNOLOGY AB
00D0C2 (base 16) BALTHAZAR TECHNOLOGY AB
ANKDAMMSGATAN 24

SE

00-D0-22 (hex) INCREDIBLE TECHNOLOGIES, INC.
00D022 (base 16) INCREDIBLE TECHNOLOGIES, INC.
1600 HICKS ROAD
ROLLING MEADOWS IL 60008
US

00-D0-71 (hex) ECHELON CORP.
00D071 (base 16) ECHELON CORP.
2901 Patrick Henry Dr.
Santa Clara CA
95054
US

00-D0-4F (hex) BITRONICS, INC.
00D04F (base 16) BITRONICS, INC.
P.O. BOX 22290
LEHIGH VALLEY PA 18002-2290
US

00-D0-FB (hex) TEK MICROSYSTEMS, INCORPORATED
00D0FB (base 16) TEK MICROSYSTEMS, INCORPORATED

ONE NORTH AVENUE
BURLINGTON MA 01803
US

00-D0-66 (hex) WINTRISS ENGINEERING CORP.
00D066 (base 16) WINTRISS ENGINEERING CORP.
6344 FERRIS SQUARE
SAN DIEGO CA 92121
US

00-D0-82 (hex) IOWAVE INC.
00D082 (base 16) IOWAVE INC.
1010 WISCONSIN AVENUE
WASHINGTON DC 20007
US

00-D0-69 (hex) TECHNOLOGIC SYSTEMS
00D069 (base 16) TECHNOLOGIC SYSTEMS
16610 E. LASER DRIVE-STE. #10
FOUNTAIN HILLS AZ 85268
US

00-D0-90 (hex) Cisco Systems, Inc
00D090 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-D0-F5 (hex) ORANGE MICRO, INC.
00D0F5 (base 16) ORANGE MICRO, INC.
1400 N. LAKEVIEW AVE.
ANAHEIM CA 92807
US

00-D0-78
(hex) Eltex of Sweden AB
00D078 (base 16) Eltex of Sweden AB
Södra Portgatan 19
OSBY Skåne 283 50
SE

00-D0-E9 (hex) Advantage Century Telecommunication Corp.
00D0E9 (base 16) Advantage Century Telecommunication Corp.
4F, 41, Tunghsin Rd.
Taipei
TW

00-D0-94 (hex) Seeion Control LLC

00D094 (base 16) Seeion Control LLC
117 Stephanie Lane
vista CA 92084-5316
US

00-D0-15 (hex) UNIVEX MICROTECHNOLOGY CORP.
00D015 (base 16) UNIVEX MICROTECHNOLOGY CORP.
2, TZE-CHIANG 3RD ROAD
TAIWAN
TW

00-D0-A5 (hex) AMERICAN ARIUM
00D0A5 (base 16) AMERICAN ARIUM
14281 CHAMBERS ROAD
TUSTIN CA 92780
US

00-D0-CF (hex) MORETON BAY
00D0CF (base 16) MORETON BAY
12/97 JIJAWS STREET

AU

00-D0-7F (hex) STRATEGY & TECHNOLOGY, LIMITED
00D07F (base 16) STRATEGY & TECHNOLOGY, LIMITED
Suite 4.2, Clifton Heights
Bristol BS8 1EJ
GB

00-30-36 (hex) RMP
ELEKTRONIKSYSTEME GMBH
003036 (base 16) RMP ELEKTRONIKSYSTEME GMBH
HANNS-MARTIN-SCHLE'R-STR.12-14

DE

00-D0-81 (hex) RTD Embedded Technologies, Inc.
00D081 (base 16) RTD Embedded Technologies, Inc.
103 Innovation Blvd.
State College PA 16803
US

00-D0-02 (hex) DITECH CORPORATION
00D002 (base 16) DITECH CORPORATION
825 EAST MIDDLEFIELD RD
MOUNTAIN VIEW CA 94043
US

00-D0-48 (hex) ECTON, INC.
00D048 (base 16) ECTON, INC.
5168 CAMPUS DRIVE
PLYMOUTH MEETING PA 19462
US

00-D0-85 (hex) OTIS ELEVATOR COMPANY
00D085 (base 16) OTIS ELEVATOR COMPANY
5 FARM SPRINGS RD.
FARMINGTON CT 06032
US

00-D0-9B (hex) SPECTEL LTD.
00D09B (base 16) SPECTEL LTD.
21 STILLORGAN INDUSTRIAL PARK

IE

00-D0-11 (hex) PRISM VIDEO, INC.
00D011 (base 16) PRISM VIDEO, INC.
15851 DALLAS PARKWAY-STE.#1060
ADDISON TX 75001
US

00-D0-DF (hex) KUZUMI ELECTRONICS,
INC.
00D0DF (base 16) KUZUMI ELECTRONICS, INC.
28-6 IIJIMA-CHYO, SAKAE-KU

JP

00-D0-62 (hex) DIGIGRAM
00D062 (base 16) DIGIGRAM
PARC DE PRE MILLIET

FR

00-D0-67 (hex) CAMPIO COMMUNICATIONS
00D067 (base 16) CAMPIO COMMUNICATIONS
2033 GATEWAY PL, SUITE #600
SAN JOSE CA 95110
US

00-D0-58 (hex) Cisco Systems, Inc
00D058 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-D0-3D (hex) GALILEO TECHNOLOGY, LTD.
00D03D (base 16) GALILEO TECHNOLOGY, LTD.
MOSHAV MANOF

IL

00-D0-32 (hex) YANO ELECTRIC CO., LTD.
00D032 (base 16) YANO ELECTRIC CO., LTD.
7-3-1 IBUKIDAIHIGASHIMACHI

JP

00-D0-F1 (hex) SEGA ENTERPRISES, LTD.
00D0F1 (base 16) SEGA ENTERPRISES, LTD.
12-14 HIGASHIKOUJIYA 2-CHOME

JP

00-50-5E (hex) DIGITEK MICROLOGIC S.A.
00505E (base 16) DIGITEK MICROLOGIC S.A.
SANT JOAN DE LA SALLE 6

ES

00-50-90 (hex) DCTRI
005090 (base 16) DCTRI
NO.40 XUE YUAN RD

CN

00-50-3B (hex) MEDIAFIRE CORPORATION
00503B (base 16) MEDIAFIRE CORPORATION
11317 FREDERICK AVENUE
BELTSVILLE MD 20705
US

00-50-46 (hex) MENICX INTERNATIONAL CO., LTD.
005046 (base 16) MENICX INTERNATIONAL CO., LTD.
NO.9, MING TSUN ROAD
TAIWAN 310 TAIWAN 310 R.O.C.
TW

00-50-B0 (hex) TECHNOLOGY ATLANTA CORPORATION
0050B0 (base 16) TECHNOLOGY ATLANTA CORPORATION
500 Sugar Mill Road
Atlanta GA 30350

US

00-50-41 (hex) Coretronic Corporation
005041 (base 16) Coretronic Corporation
NO.11, LI HSIN RD.

TW

00-50-DD (hex) SERRA SOLDADURA, S.A.
0050DD (base 16) SERRA SOLDADURA, S.A.
POL. IND. ZONA FRANCA,

ES

00-D0-4C (hex) Eseye Design Ltd
00D04C (base 16) Eseye Design Ltd
20 Nugent Road, The Surrey Research Park
Surrey Guildford GU2 7AF
GB

00-D0-D9 (hex) DEDICATED
MICROCOMPUTERS
00D0D9 (base 16) DEDICATED MICROCOMPUTERS
1 Thellow Heath Park
Northwich CW9 6JB
GB

00-D0-E1 (hex) AVIONITEK ISRAEL INC.
00D0E1 (base 16) AVIONITEK ISRAEL INC.
1 ETGAR STREET

IL

00-D0-08 (hex) MACTELL CORPORATION
00D008 (base 16) MACTELL CORPORATION
7000 CAMERON ROAD
AUSTIN TX 78752
US

00-D0-0B (hex) RHK TECHNOLOGY, INC.
00D00B (base 16) RHK TECHNOLOGY, INC.
1050 EAST MAPLE ROAD
TROY MI 48083
US

00-D0-A0 (hex) MIPS DENMARK
00D0A0 (base 16) MIPS DENMARK
LAUTRUPVANG 2B

DK -
DK

00-D0-0A (hex) LANACCESS TELECOM S.A.
00D00A (base 16) LANACCESS TELECOM S.A.
GRAN VIA 8-10 4 1

ES

00-D0-2B (hex) JETCELL, INC.
00D02B (base 16) JETCELL, INC.
173 CONSTITUTION DRIVE
MENLO PARK CA 94025-1106
US

00-50-3E (hex) Cisco Systems, Inc
00503E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose
CA 94568
US

00-D0-3A (hex) ZONEWORX, INC.
00D03A (base 16) ZONEWORX, INC.
40925 COUNTY CENTER DRIVE
TEMECULA CA 92592
US

00-D0-01 (hex) VST TECHNOLOGIES, INC.
00D001 (base 16) VST TECHNOLOGIES, INC.
125 NAGOG PARK
ACTON MA 01720
US

00-50-20 (hex) MEDIASTAR CO., LTD.
005020 (base 16) MEDIASTAR CO., LTD.
3FL, SOHUN BLDG.
KOREA
KR

00-D0-75 (hex) ALARIS MEDICAL SYSTEMS, INC.
00D075 (base 16) ALARIS MEDICAL SYSTEMS, INC.
P.O. BOX 85335
SAN DIEGO CA 92121-2733
US

00-50-67 (hex) AEROCOMM, INC.
005067 (base 16) AEROCOMM, INC.

13256 W. 98TH STREET
LENEXA KS 66215
US

00-50-B6 (hex) GOOD WAY IND. CO., LTD.
0050B6 (base 16) GOOD WAY IND. CO., LTD.
5F, NO.8, ALLEY 6,
TAIWAN R.O.C.
TW

00-50-4B (hex) BARCONET N.V.
00504B (base 16) BARCONET N.V.
LUIPAARDSTRAAT 12

BE

00-50-EA (hex) XEL COMMUNICATIONS, INC.
0050EA (base 16) XEL
COMMUNICATIONS, INC.
17101 E. OHIO DRIVE
AURORA CO 80017
US

00-50-E8 (hex) Nomadix, Inc
0050E8 (base 16) Nomadix, Inc
21600 Oxnard St. 19th Floor,
Woodland Hills CA 91367
US

00-D0-8D (hex) PHOENIX GROUP, INC.
00D08D (base 16) PHOENIX GROUP, INC.
123 MARCUS BLVD.
HAUPPAUGE NY 11788
US

00-D0-9C (hex) KAPADIA COMMUNICATIONS
00D09C (base 16) KAPADIA COMMUNICATIONS
3925 WEST BROKER LANE
AUSTIN TX 78759
US

00-D0-F3 (hex) SOLARI DI UDINE SPA
00D0F3 (base 16) SOLARI DI UDINE SPA
VIA GINO PIERI 29

IT

00-D0-39 (hex) UTILICOM, INC.

00D039 (base 16) UTILICOM, INC.
323 LOVE PLACE
SANTA BARBARA CA 93112-3289
US

00-50-E7 (hex) PARADISE INNOVATIONS (ASIA)
0050E7 (base 16) PARADISE INNOVATIONS (ASIA)
PTE. LTD.
SINGAPORE 554914
SG

00-50-FB (hex) VSK ELECTRONICS
0050FB (base 16) VSK ELECTRONICS
VENETIELAAN 39

BE

00-50-F4
(hex) SIGMATEK GMBH & CO. KG
0050F4 (base 16) SIGMATEK GMBH & CO. KG
A-5112 LAMPRECHTSHAUSEN,

AT

00-50-21 (hex) EIS INTERNATIONAL, INC.
005021 (base 16) EIS INTERNATIONAL, INC.
1351 WASHINGTON BLVD.
STAMFORD CT 06902
US

00-D0-1C (hex) SBS TECHNOLOGIES,
00D01C (base 16) SBS TECHNOLOGIES,
CONNECTIVITY PRODUCTS
ST. PAUL MN 55121-1245
US

00-D0-D5 (hex) GRUNDIG AG
00D0D5 (base 16) GRUNDIG AG
KURGARTENSGTREET 37

DE

00-D0-6D (hex) ACRISON, INC.
00D06D (base 16) ACRISON, INC.
20 EMPIRE BLVD.
MOONACHIE NJ 07074
US

00-D0-41 (hex) AMIGO TECHNOLOGY CO., LTD.
00D041 (base 16) AMIGO TECHNOLOGY CO., LTD.
4F-1B, NO.12, LANE 609, SEC.5,
TAIWAN TAIWAN R.O.C.
TW

00-D0-9D (hex) VERIS INDUSTRIES
00D09D (base 16) VERIS INDUSTRIES
10831 SW CASCADE
PORTLAND OR 97223
US

00-50-C6 (hex) LOOP TELECOMMUNICATION INTERNATIONAL, INC.
0050C6
(base 16) LOOP TELECOMMUNICATION INTERNATIONAL, INC.
7F, No. 8, Hsin Ann Road
Hsinchu -
TW

00-50-9F (hex) HORIZON COMPUTER
00509F (base 16) HORIZON COMPUTER
TRINITY BLDG. 4-22-7
TOKYO 106
JP

00-50-A5 (hex) CAPITOL BUSINESS SYSTEMS, LTD.
0050A5 (base 16) CAPITOL BUSINESS SYSTEMS, LTD.
43/44 RIVERSIDE
ROCHESTER, KENT England ME2 4DP
GB

00-50-00 (hex) NEXO COMMUNICATIONS, INC.
005000 (base 16) NEXO COMMUNICATIONS, INC.
2ND FL., 160, MINGCHU ROAD
HSINCHU CITY
TW

00-50-C8 (hex) Addonics Technologies, Inc.
0050C8 (base 16) Addonics Technologies, Inc.
1918 Junction Ave.,
San Jose CA 95131
US

00-50-8D (hex) ABIT COMPUTER CORPORATION
00508D (base 16) ABIT COMPUTER CORPORATION
3F-7, NO. 79, SEC.1
TAIPEI HSIEN
TW

00-50-A0 (hex) DELTA COMPUTER SYSTEMS, INC.
0050A0 (base 16) DELTA COMPUTER SYSTEMS, INC.
11719 NE 95TH STREET - STE.
VANCOUVER
WA 98682-2444
US

00-50-86 (hex) TELKOM SA, LTD.
005086 (base 16) TELKOM SA, LTD.
TELKOM LABORATORY
PRETORIA
ZA

00-50-1A (hex) IQinVision
00501A (base 16) IQinVision
33122 Valle Road
San Juan Capistrano CA 92675-4853
US

00-50-8F (hex) ASITA TECHNOLOGIES INT'L LTD.
00508F (base 16) ASITA TECHNOLOGIES INT'L LTD.
UNIT 2 BALLYBRIT BUSINESS PARK

IE

00-50-15 (hex) BRIGHT STAR ENGINEERING
005015 (base 16) BRIGHT STAR ENGINEERING
19 ENFIELD DRIVE
ANDOVER MA 01810
US

00-50-89 (hex) SAFETY MANAGEMENT SYSTEMS
005089 (base 16) SAFETY MANAGEMENT SYSTEMS
Burgemeester Burgerslaan 40
NH Rosmalen 5245
NL

00-50-66 (hex) AtecoM GmbH advanced telecomunication modules
005066 (base 16) AtecoM GmbH advanced telecomunication modules
KAISERSTR. 100
D-52134 HERZOGENRATH
DE

00-50-59 (hex) iBAHN
005059 (base 16) iBAHN
10757 S. River Front Parkway
South

Jordan UT 84095
US

00-50-D9 (hex) ENGETRON-ENGENHARIA ELETRONICA IND. e COM. LTDA
0050D9 (base 16) ENGETRON-ENGENHARIA ELETRONICA IND. e COM. LTDA
VIA SOCRATES M. BITTENCOURT, 1099
32010-010 Contagem MG
BR

00-50-57 (hex) BROADBAND ACCESS SYSTEMS
005057 (base 16) BROADBAND ACCESS SYSTEMS
48 South Park St #208
Montclair NJ 01752
US

00-50-88 (hex) AMANO CORPORATION
005088 (base 16) AMANO CORPORATION
275, MAMEDO-CHO
222-8558
JP

00-50-31 (hex) AEROFLEX LABORATORIES, INC.
005031 (base 16) AEROFLEX LABORATORIES, INC.
35 SOUTH SERVICE ROAD
PLAINVIEW NY 11803
US

00-50-63 (hex) OY COMSEL SYSTEM AB
005063 (base 16) OY COMSEL SYSTEM AB
TEGELBRUKSGATAN 5-7
FIN-65100 VASA
FI

00-50-03 (hex) Xrite Inc
005003 (base 16) Xrite Inc
4300 44TH Street, S.E.
Grand Rapids MI 49512
US

00-50-D3 (hex) DIGITAL AUDIO PROCESSING PTY. LTD.
0050D3 (base 16) DIGITAL
AUDIO PROCESSING PTY. LTD.
PO BOX 40
NSW 2138
AU

00-50-AF (hex) INTERGON, INC.
0050AF (base 16) INTERGON, INC.

5800 RANCHESTER DRIVE
HOUSTON TX 77036
US

00-50-AD (hex) CommUnique Wireless Corp.
0050AD (base 16) CommUnique Wireless Corp.
1070 MARINA VILLAGE PARKWAY
ALAMEDA CA 94501
US

00-90-34 (hex) IMAGIC, INC.
009034 (base 16) IMAGIC, INC.
235 West Road #7
Portsmouth NH 03801
US

00-50-AE (hex) FDK Co., Ltd
0050AE (base 16) FDK Co., Ltd
2281 Washizu
Shizuoka-ken 431-0495
JP

00-90-73 (hex) GAIO TECHNOLOGY
009073 (base 16) GAIO TECHNOLOGY
OAK-YOKOHAMA BLDG.
NISHI-KU YOKOHAMA-CITY Kanagawa
JP

00-90-7B (hex) E-TECH, INC.
00907B (base 16) E-TECH, INC.
30, R&D ROAD 2
HSINCHU
TW

00-90-81 (hex) ALOHA NETWORKS, INC.
009081 (base 16) ALOHA NETWORKS, INC.
1001A O'REILLY AVENUE
SAN FRANCISCO CA 94129-0472
US

00-90-1C
(hex) mps Software Gmbh
00901C (base 16) mps Software Gmbh
LUDWIGSTR 36
85551 KIRCHHEIM
DE

00-90-DB (hex) NEXT LEVEL COMMUNICATIONS

0090DB (base 16) NEXT LEVEL COMMUNICATIONS
6085 STATE FARM DRIVE
ROHNERT PARK CA 94928
US

00-90-1A (hex) UNISPHERE SOLUTIONS
00901A (base 16) UNISPHERE SOLUTIONS
5 CARLISLE ROAD
WESTFORD MA 01886
US

00-90-B5 (hex) NIKON CORPORATION
0090B5 (base 16) NIKON CORPORATION
Electronic Imaging Division, Designing D
TOKYO 140-8601
JP

00-90-05 (hex) PROTECH SYSTEMS CO., LTD.
009005 (base 16) PROTECH SYSTEMS CO., LTD.
5F, NO. 34, LANE 80, SEC. 3
TAIPEI
TW

00-90-F8 (hex) MEDIATRIX TELECOM
0090F8 (base 16) MEDIATRIX TELECOM
4229 GARLOCK
QUEBEC J1L 2C8
CA

00-90-10 (hex) SIMULATION LABORATORIES, INC.
009010 (base 16) SIMULATION LABORATORIES, INC.
10078 TYLER PLACE #A
IJAMSVILLE MD 21754
US

00-90-C6
(hex) OPTIM SYSTEMS, INC.
0090C6 (base 16) OPTIM SYSTEMS, INC.
8201 GREENSBORO DR.-STE. #1000
MCLEAN VA 22102
US

00-90-CA (hex) ACCORD VIDEO TELECOMMUNICATIONS, LTD.
0090CA (base 16) ACCORD VIDEO TELECOMMUNICATIONS, LTD.
10, MARTIN GEHL STR, PO BOX 3564
Petach-Tikva 49130
IL

00-90-E9 (hex) JANZ COMPUTER AG
0090E9 (base 16) JANZ COMPUTER AG
Im Dörener Feld 8
D-33100 Paderborn
DE

00-90-37 (hex) ACUCOMM, INC.
009037 (base 16) ACUCOMM, INC.
4633 OLD IRONSIDES - STE #310
SANTA CLARA CA 95054
US

00-90-78 (hex) MER TELEMANAGEMENT SOLUTIONS, LTD.
009078 (base 16) MER TELEMANAGEMENT SOLUTIONS, LTD.
5 HATSOREF STR.
HOLON
IL

00-90-B8 (hex) ROHDE & SCHWARZ GMBH & CO. KG
0090B8 (base 16) ROHDE & SCHWARZ GMBH & CO. KG
POSTFACH: 80 14 69/ABT.: 3CK
D-81614 MUNCHEN
DE

00-90-5B (hex) RAYMOND AND LAE ENGINEERING
00905B (base 16) RAYMOND AND LAE ENGINEERING
208
COMMERCE DR., UNIT #3C
FORT COLLINS CO 80524
US

00-90-BC (hex) TELEMANN CO., LTD.
0090BC (base 16) TELEMANN CO., LTD.
6F DONGSIN BLDG.
SEOUL, 135-270
KR

00-90-0A (hex) PROTON ELECTRONIC INDUSTRIAL CO., LTD.
00900A (base 16) PROTON ELECTRONIC INDUSTRIAL CO., LTD.

PANCHIAO, Taipei County
TW

00-90-D5 (hex) EUPHONIX, INC.
0090D5 (base 16) EUPHONIX, INC.
220 PORTAGE AVE.
PALO ALTO CA 94306
US

00-90-4A (hex) CONCUR SYSTEM TECHNOLOGIES
00904A (base 16) CONCUR SYSTEM TECHNOLOGIES
2525 WALLINGWOOD DR.-STE. #804
AUSTIN TX 78746
US

00-90-EB (hex) SENTRY TELECOM SYSTEMS
0090EB (base 16) SENTRY TELECOM SYSTEMS
8664 COMMERCE COURT
BURNABY BC V5A 4N7
CA

00-90-FE (hex) ELECOM CO., LTD. (LANEED DIV.)
0090FE (base 16) ELECOM CO., LTD. (LANEED DIV.)
TOKYU BANCHO BLDG.
Chiyoda-ku TOKYO 102-0081
JP

00-90-59 (hex) TELECOM DEVICE K.K.
009059
(base 16) TELECOM DEVICE K.K.
SANMIYANAGA BLDG. 3F, 1-5-12
TOKYO 107
JP

00-90-2E (hex) NAMCO LIMITED
00902E (base 16) NAMCO LIMITED
1-1-32 SHIN-URASHIMA-CHO
KANAGAWA 221-0031
JP

00-90-8F (hex) AUDIO CODES LTD.
00908F (base 16) AUDIO CODES LTD.
3A NETANYAHU STREET
OR YEHUDA 60256
IL

00-90-AA (hex) INDIGO ACTIVE VISION SYSTEMS LIMITED
0090AA (base 16) INDIGO ACTIVE VISION SYSTEMS LIMITED
THE EDINBURGH TECHNOPOLE
Edinburgh EH26 OPJ
GB

00-90-5E (hex) RAULAND-BORG CORPORATION
00905E (base 16) RAULAND-BORG CORPORATION
3450 W. OAKTON ST.
SKOKIE IL 60076

US

00-90-AF (hex) J. MORITA MFG. CORP.
0090AF (base 16) J. MORITA MFG. CORP.
680 HIGASHIHAMA MINAMI-CHO
FUSHIMI-KU, KYOTO 612-8213
JP

00-90-BB (hex) TAINET COMMUNICATION SYSTEM Corp.
0090BB (base 16) TAINET COMMUNICATION SYSTEM Corp.
3 FL, NO. 6, ALLEY 23, LANE 91 SEC. 1
Taipei
TW

00-90-90
(hex) I-BUS
009090 (base 16) I-BUS
9174 SKY PARK COURT
SAN DIEGO CA 92123
US

00-90-56 (hex) TELESTREAM, INC.
009056 (base 16) TELESTREAM, INC.
848 GOLD FLAT RD., SUITE 1
NEVADA CITY CA 95959
US

00-90-68 (hex) DVT CORP.
009068 (base 16) DVT CORP.
1670 OAKBROOK DR. - STE. #330
NORCROSS GA 30093
US

00-10-A5 (hex) OXFORD INSTRUMENTS
0010A5 (base 16) OXFORD INSTRUMENTS
Halifax Road
Buckinghamshire HP12 3SE
GB

00-10-D7 (hex) ARGOSY RESEARCH INC.
0010D7 (base 16) ARGOSY RESEARCH INC.
NO. 44, LANE 411, CHUNG HUA RD

TW

00-10-92 (hex) NETCORE INC.
001092 (base 16) NETCORE INC.
12F-2, 537, SEC.2

HSINCHU
TW

00-10-1C (hex) OHM TECHNOLOGIES INTL, LLC
00101C (base 16) OHM TECHNOLOGIES INTL, LLC
4 EXECUTIVE CIRCLE, Suite 185
IRVINE CA 92614
US

00-10-46 (hex) ALCORN MCBRIDE INC.
001046 (base 16) ALCORN MCBRIDE INC.
3300
S. HIAWASSEE #105
ORLANDO FL 32835
US

00-90-74 (hex) ARGON NETWORKS, INC.
009074 (base 16) ARGON NETWORKS, INC.
25 PORTER ROAD
LITTLETON MA 01460
US

00-90-3B (hex) TriEMS Research Lab, Inc.
00903B (base 16) TriEMS Research Lab, Inc.
1275 N. TUSTIN AVENUE
ANAHEIM CA 92807
US

00-90-9F (hex) DIGI-DATA CORPORATION
00909F (base 16) DIGI-DATA CORPORATION
7165 Columbia Gateway Drive
Columbia MD 21045
US

00-90-19 (hex) HERMES ELECTRONICS CO., LTD.
009019 (base 16) HERMES ELECTRONICS CO., LTD.
3-2-12 YUSHIMA, BUNKYO-KU
TOKYO, 113-0034
JP

00-10-C9 (hex) MITSUBISHI ELECTRONICS LOGISTIC SUPPORT CO.
0010C9 (base 16) MITSUBISHI ELECTRONICS LOGISTIC SUPPORT CO.

Kamakura-city, Kanagawa 247
JP

00-04-00 (hex) LEXMARK INTERNATIONAL, INC.
000400 (base 16) LEXMARK INTERNATIONAL, INC.

740 NEW CIRCLE ROAD
LEXINGTON KY 40550
US

00-10-C5 (hex) PROTOCOL
TECHNOLOGIES, INC.
0010C5 (base 16) PROTOCOL TECHNOLOGIES, INC.
4 FIRST STREET
BRIDGEWATER MA 02324
US

00-10-1A (hex) PictureTel Corp.
00101A (base 16) PictureTel Corp.
100 MINUTEMAN ROAD, MS641
ANDOVER MA 01810
US

00-10-B7 (hex) COYOTE TECHNOLOGIES, LLC
0010B7 (base 16) COYOTE TECHNOLOGIES, LLC
4360 PARK TERRACE DRIVE
WESTLAKE VILLAGE CA 91361
US

00-10-28 (hex) COMPUTER TECHNICA, INC.
001028 (base 16) COMPUTER TECHNICA, INC.
3-5-19 HIGASHINAKA HAKATA-KU
FUKUOKA 816
JP

00-10-2C (hex) Lasat Networks A/S
00102C (base 16) Lasat Networks A/S
Skalhuse 13
SK-9240 Nibe
DK

00-10-FD (hex) COCOM A/S
0010FD (base 16) COCOM A/S
TELETONVEJ 8
DK 2860 SOBORG
DK

00-10-47 (hex) ECHO ELETRIC CO. LTD.
001047 (base 16) ECHO ELETRIC CO. LTD.
NO.6-17-1-602 Higashi Hongou
Yokohama City 226
JP

00-90-3F (hex) WorldCast Systems

00903F
(base 16) WorldCast Systems
20 Avenue Neil Armstrong
Mérignac 33700
FR

00-10-43 (hex) A2 CORPORATION
001043 (base 16) A2 CORPORATION
1-7-1 Togoshi
Tokyo Shinagawa-ku 1420041
JP

00-90-D8 (hex) WHITECROSS SYSTEMS
0090D8 (base 16) WHITECROSS SYSTEMS
3A WATERSIDE PARK, COOKHAM RD
BERKSHIRE RG12 1RB
GB

00-90-E5 (hex) TEKNEMA, INC.
0090E5 (base 16) TEKNEMA, INC.
2656 E. BAYSHORE ROAD
PALO ALTO CA 94303
US

00-90-F4 (hex) LIGHTNING INSTRUMENTATION
0090F4 (base 16) LIGHTNING INSTRUMENTATION
BOVERESSES 50
1010 LAUSANNE
CH

00-10-9E (hex) AWARE, INC.
00109E (base 16) AWARE, INC.
ONE OAK PARK
BEDFORD MA 01730
US

00-10-05 (hex) UEC COMMERCIAL
001005 (base 16) UEC COMMERCIAL
P.O. BOX 54,
4300 DURBAN
ZA

00-10-B8 (hex) ISHIGAKI COMPUTER SYSTEM CO.
0010B8 (base 16) ISHIGAKI COMPUTER SYSTEM CO.
1-1-1, KYOBASHI,
Tokyo
JP

00-10-8B
(hex) LASERANIMATION SOLLINGER GMBH
00108B (base 16) LASERANIMATION SOLLINGER GMBH
CRELLESTR. 19/20
D 10827 BERLIN
DE

00-10-C7 (hex) DATA TRANSMISSION NETWORK
0010C7 (base 16) DATA TRANSMISSION NETWORK
9110 W. DODGE RD. - STE.#200
OMAHA NE 68114
US

00-10-4E (hex) CEOLOGIC
00104E (base 16) CEOLOGIC
ZA DE PISSALOOP
78192 TRAPPES
FR

00-10-74 (hex) ATEN INTERNATIONAL CO., LTD.
001074 (base 16) ATEN INTERNATIONAL CO., LTD.
12F, NO.101, SUNG CHIANG RD.
TAIPEI, 10428
TW

00-10-70 (hex) CARADON TREND LTD.
001070 (base 16) CARADON TREND LTD.
P.O. BOX 34, HORSHAM
WEST SUSSEX, RH12 2YF ENGLAND
GB

00-10-BA (hex) MARTINHO-DAVIS SYSTEMS, INC.
0010BA (base 16) MARTINHO-DAVIS SYSTEMS, INC.
1260 OLD INNES ROAD
OTTAWA, ONTARIO K1B 3V3
CA

00-10-C2 (hex) WILLNET, INC.
0010C2 (base 16) WILLNET, INC.
JOWA-TAKANAWA BLDG. 8F
TOKYO
JP

00-10-40
(hex) INTERMEC CORPORATION
001040 (base 16) INTERMEC CORPORATION
6001 36TH AVE WEST
EVERETT WA 98203-9280

US

00-10-2E (hex) NETWORK SYSTEMS & TECHNOLOGIES PVT. LTD.
00102E (base 16) NETWORK SYSTEMS & TECHNOLOGIES PVT. LTD.
PLOT NO. 2, COCHIN EXPORT PROCESSING ZO
KAKKANAD, COCHIN 682 030
IN

00-10-B0 (hex) MERIDIAN TECHNOLOGY CORP.
0010B0 (base 16) MERIDIAN TECHNOLOGY CORP.
11 MCBRIDE CORP. CENTER DR.
CHESTERFIELD MD 63005
US

00-10-67 (hex) Ericsson
001067 (base 16) Ericsson
250 Holger Way
SAN JOSE CA 95134
US

00-10-21 (hex) ENCANTO NETWORKS, INC.
001021 (base 16) ENCANTO NETWORKS, INC.
2953 BUNKER HILL LANE
SANTA CLARA CA 95054
US

00-10-64 (hex) DNPG, LLC
001064 (base 16) DNPG, LLC
20 North Wentworth Avenue
Londonderry NH 03053
US

00-04-AC (hex) IBM Corp
0004AC (base 16) IBM Corp
3039 E Cornwallis Road
Research Triangle
Park NC 27709-2195
US

00-10-B4 (hex) ATMOSPHERE NETWORKS
0010B4 (base 16) ATMOSPHERE NETWORKS
10460 BANDLEY DRIVE
CUPERTINO CA 95014
US

00-E0-5D (hex) UNITEC CO., LTD.
00E05D (base 16) UNITEC CO., LTD.
KISOGAWA-CHO ICHINOTORI 24

HAGURI-GUN AICHI 493
JP

00-E0-5E (hex) JAPAN AVIATION ELECTRONICS INDUSTRY, LTD.
00E05E (base 16) JAPAN AVIATION ELECTRONICS INDUSTRY, LTD.

TOKYO 196 JAPAN
JP

00-E0-9D (hex) SARNOFF CORPORATION
00E09D (base 16) SARNOFF CORPORATION
CN 5300
PRINCETON NJ 08543-5300
US

00-E0-8C (hex) NEOPARADIGM LABS, INC.
00E08C (base 16) NEOPARADIGM LABS, INC.
1735 N. FIRST ST., STE #108
SAN JOSE CA 95112
US

00-E0-7D (hex) NETRONIX, INC.
00E07D (base 16) NETRONIX, INC.
340 THOR PLACE
BREA CA 92821
US

00-E0-D2 (hex) VERSANET COMMUNICATIONS, INC.
00E0D2 (base 16) VERSANET COMMUNICATIONS, INC.
628 N. DIAMOND BAR BLVD.
DIAMOND
BAR CA 91765
US

00-E0-47 (hex) InFocus Corporation
00E047 (base 16) InFocus Corporation
27500 SW Parkway Avenue
Wilsonville OR 97070-8238
US

00-E0-C3 (hex) SAKAI SYSTEM DEVELOPMENT CORP.
00E0C3 (base 16) SAKAI SYSTEM DEVELOPMENT CORP.
PORTUS CENTER BLD., 4-45-1
OSAKA-FU, 590
JP

00-E0-92 (hex) ADMTEK INCORPORATED
00E092 (base 16) ADMTEK INCORPORATED

1962 ZANKER ROAD
SAN JOSE CA 95112
US

00-E0-FF (hex) SECURITY DYNAMICS TECHNOLOGIES, Inc.
00E0FF (base 16) SECURITY DYNAMICS TECHNOLOGIES, Inc.
20 CROSBY DRIVE
BEDFORD MA 01730
US

00-E0-AB (hex) DIMAT S.A.
00E0AB (base 16) DIMAT S.A.
C/BISCAIA 383 3
08023 BARCELONA
ES

00-E0-30 (hex) MELITA INTERNATIONAL CORP.
00E030 (base 16) MELITA INTERNATIONAL CORP.
5051 PEACHTREE CORNERS CIRCLE
NORCROSS GA 30092
US

00-E0-28 (hex) APTIX CORPORATION
00E028 (base 16) APTIX CORPORATION
2880
N. FIRST STREET
SAN JOSE CA 95134
US

00-E0-A1 (hex) HIMA PAUL HILDEBRANDT GmbH Co. KG
00E0A1 (base 16) HIMA PAUL HILDEBRANDT GmbH Co. KG
POSTBOX 1261
D-68777 BRUEHL NEAR MANNHEIM
DE

00-E0-88 (hex) LTX-Credence CORPORATION
00E088 (base 16) LTX-Credence CORPORATION
825 UNIVERSITY AVENUE
NORWOOD MA 02062-2643
US

00-E0-F2 (hex) ARLOTTO COMNET, INC.
00E0F2 (base 16) ARLOTTO COMNET, INC.
7F-4,55,TUNG-KUANG ROAD
HSIN-CHU, 300
TW

00-E0-46 (hex) BENTLY NEVADA CORP.

00E046 (base 16) BENTLY NEVADA CORP.
PO BOX 157
MINDEN NV 89423
US

00-E0-58 (hex) PHASE ONE DENMARK A/S
00E058 (base 16) PHASE ONE DENMARK A/S
ROSKILDEVEJ 39
DK-2000 FREDERIKSBERG
DK

00-E0-76 (hex) DEVELOPMENT CONCEPTS, INC.
00E076 (base 16) DEVELOPMENT CONCEPTS, INC.
1000 N. BROAD STREET
LANSDALE PA 19446
US

00-E0-F8 (hex) DICNA CONTROL AB
00E0F8 (base 16) DICNA CONTROL
AB
STENYXEGATAN 21 C
213 76 MALMOE
SE

00-E0-AA (hex) ELECTROSONIC LTD.
00E0AA (base 16) ELECTROSONIC LTD.
HAWLEY MILL, HAWLEY RD.
DARTFORD, KENT DA2 7SY
GB

00-E0-10 (hex) HESS SB-AUTOMATENBAU GmbH
00E010 (base 16) HESS SB-AUTOMATENBAU GmbH
HINDENBURGSTRASSE 27-29
D-71106 MAGSTADT
DE

00-E0-33 (hex) E.E.P.D. GmbH
00E033 (base 16) E.E.P.D. GmbH
ROEMER-STRASSE 4
85229 MARKT INDERSDORF
DE

00-E0-A2 (hex) MICROSLATE INC.
00E0A2 (base 16) MICROSLATE INC.
9625 IGNACE - STE. D
BROSSARD QC J4Y 2P3
CA

00-E0-79 (hex) A.T.N.R.
00E079 (base 16) A.T.N.R.
BP 966
91976 COURTABOEUF
FR

00-E0-7B (hex) BAY NETWORKS
00E07B (base 16) BAY NETWORKS
125 NAGOG PARK
ACTON MA 01720
US

00-E0-1D (hex) WebTV NETWORKS, INC.
00E01D (base 16) WebTV NETWORKS, INC.
305 LYTTON AVE.
PALO ALTO CA 94301
US

00-E0-E1 (hex) G2 NETWORKS, INC.
00E0E1
(base 16) G2 NETWORKS, INC.
142 SO. SANTA CRUZ AVE.
LOS GATOS CA 95030-6702
US

00-E0-8D (hex) PRESSURE SYSTEMS, INC.
00E08D (base 16) PRESSURE SYSTEMS, INC.
34 RESEARCH DRIVE
HAMPTON VA 23666
US

00-E0-3D (hex) FOCON ELECTRONIC SYSTEMS A/S
00E03D (base 16) FOCON ELECTRONIC SYSTEMS A/S
DAMVANG, PO BOX 269
DK-6400 SONDERBORG
DK

00-E0-19 (hex) ING. GIORDANO ELETTRONICA
00E019 (base 16) ING. GIORDANO ELETTRONICA
VIA PIETRO COSSA 115/12
10146-TORINO
IT

00-60-B3 (hex) Z-COM, INC.
0060B3 (base 16) Z-COM, INC.
7F-2, NO.9, PROSPERITY 1ST RD.
HSINCHU
TW

00-60-02 (hex) SCREEN SUBTITLING SYSTEMS, LTD
006002 (base 16) SCREEN SUBTITLING SYSTEMS, LTD
THE OLD RECTORY
CLAYDON IPSWICH IP6 OEQ
GB

00-60-89 (hex) XATA
006089 (base 16) XATA
151 EAST CLIFF ROAD-STE.#10
BURNSVILLE MN 55337
US

00-60-21 (hex) DSC CORPORATION
006021
(base 16) DSC CORPORATION
RECRUIT-SHINOHTSUKA BLDG.,
TOKYO 170
JP

00-60-B8 (hex) CORELIS Inc.
0060B8 (base 16) CORELIS Inc.
12607 Hiddencreek Way
Cerritos CA 90703
US

00-60-AD (hex) MegaChips Corporation
0060AD (base 16) MegaChips Corporation
4-1-6,Miyahara
Osaka 532-0003
JP

00-60-55 (hex) CORNELL UNIVERSITY
006055 (base 16) CORNELL UNIVERSITY
729 Rhodes Hall
ITHACA NY 14850-4902
US

00-E0-75 (hex) Verilink Corporation
00E075 (base 16) Verilink Corporation
127 Jetplex Circle
Madison AL 35758
US

00-E0-2E (hex) SPC ELECTRONICS CORPORATION
00E02E (base 16) SPC ELECTRONICS CORPORATION
2-1-3 SHIBASAKI, CHOFU-SHI
TOKYO, 182

JP

00-E0-3E (hex) ALFATECH, INC.
00E03E (base 16) ALFATECH, INC.
SHIN-OSAKA EITO BLDG.
OSAKA
JP

00-E0-9A (hex) Positron Inc.
00E09A (base 16) Positron Inc.
5101 Buchan Street
Montreal, Québec H4P
2R9
CA

00-60-39 (hex) SanCom Technology, Inc.
006039 (base 16) SanCom Technology, Inc.
7719 WOOD HOLLOW DRIVE
AUSTIN TX 78731
US

00-60-49 (hex) VINA TECHNOLOGIES
006049 (base 16) VINA TECHNOLOGIES
6 UNION SQUARE - STE F
UNION CITY CA 94587
US

00-60-8D (hex) UNIPULSE CORP.
00608D (base 16) UNIPULSE CORP.
2-7, SENGENDAI-NISHI
SAITAMA 343
JO

00-60-99 (hex) SBE, Inc.
006099 (base 16) SBE, Inc.
4000 Executive Parkway
San Ramon CA 94583
US

00-60-98 (hex) HT COMMUNICATIONS
006098 (base 16) HT COMMUNICATIONS
4480 SHOPPING LANE
SIMI VALLEY CA 93063
US

00-60-DE (hex) Kayser-Threde GmbH
0060DE (base 16) Kayser-Threde GmbH
Wolfratshauser Str. 48

D-81379 Munich
DE

00-60-9C (hex) Perkin-Elmer Incorporated
00609C (base 16) Perkin-Elmer Incorporated
710 Bridgeport Ave.
Shelton CT 06484
US

00-60-CF (hex) ALTEON NETWORKS, INC.
0060CF
(base 16) ALTEON NETWORKS, INC.
50 GREAT OAKS BLVD.
SAN JOSE CA 95119
US

00-60-75 (hex) PENTEK, INC.
006075 (base 16) PENTEK, INC.
1 PARK WAY
UPPER SADDLE RIVER NJ 07458
US

00-60-15 (hex) NET2NET CORPORATION
006015 (base 16) NET2NET CORPORATION
131 COOLIDGE STREET
HUDSON MA 01749
US

00-60-9E (hex) ASC X3 - INFORMATION TECHNOLOGY STANDARDS SECRETARIATS
00609E (base 16) ASC X3 - INFORMATION TECHNOLOGY STANDARDS SECRETARIATS
1250 EYE STREET NW - STE #200
WASHINGTON DC 20005
US

00-60-10 (hex) NETWORK MACHINES, INC.
006010 (base 16) NETWORK MACHINES, INC.
255 OLD NEW BRUNSWICK RD., # N320
PISCATAWAY NJ 08854
US

00-60-44 (hex) LITTON/POLY-SCIENTIFIC
006044 (base 16) LITTON/POLY-SCIENTIFIC
2200 SOUTH MAIN STREET
BLACKSBURG VA 24060
US

00-60-A2 (hex) NIHON UNISYS LIMITED CO.
0060A2 (base 16) NIHON UNISYS LIMITED CO.

P.O. BOX 135
SHINONOME 1-10-9

JP

00-60-9D (hex) PMI FOOD EQUIPMENT GROUP
00609D (base 16) PMI FOOD EQUIPMENT GROUP
701 RIDGE AVENUE
TROY OH 45374
US

00-60-84 (hex) DIGITAL VIDEO
006084 (base 16) DIGITAL VIDEO
4920 AVALON RIDGE PKWY
NORCROSS GA 30092
US

00-60-2D (hex) ALERTON TECHNOLOGIES, INC.
00602D (base 16) ALERTON TECHNOLOGIES, INC.
6670 185TH AVE. N.E.
REDMOND WA 98052
US

00-60-F8 (hex) Loran International Technologies Inc.
0060F8 (base 16) Loran International Technologies Inc.
955 GREEN VALLEY CRESCENT
OTTAWA, ONTARIO K2C 3V4
CA

00-60-B9 (hex) NEC Platforms, Ltd
0060B9 (base 16) NEC Platforms, Ltd
2-6-1,Kitamikata,Takatsu-ku
Kawasaki 213-8511
JP

00-60-36 (hex) AIT Austrian Institute of Technology GmbH
006036 (base 16) AIT Austrian Institute of Technology GmbH
Donau-City-Straße 1
Vienna 1220
AT

00-60-8E (hex) HE ELECTRONICS, TECHNOLOGIE & SYSTEMTECHNIK GmbH
00608E
(base 16) HE ELECTRONICS, TECHNOLOGIE & SYSTEMTECHNIK GmbH
AM GNEISENAUFLOT 8
D-66538 NEUNHIRCHEN
DE

00-60-6A (hex) MITSUBISHI WIRELESS COMMUNICATIONS. INC.
00606A (base 16) MITSUBISHI WIRELESS COMMUNICATIONS. INC.
2001 CHERRY DRIVE
BRASELTON GA 30517
US

00-60-1A (hex) KEITHLEY INSTRUMENTS
00601A (base 16) KEITHLEY INSTRUMENTS
30500 BAINBRIDGE RD.
SOLON OH 44139
US

00-60-F6 (hex) NEXTEST COMMUNICATIONS PRODUCTS, INC.
0060F6 (base 16) NEXTEST COMMUNICATIONS PRODUCTS, INC.
TWO MID AMERICA PLAZA, STE.500
OAKBROOK TERRACE IL 60181
US

00-60-72 (hex) VXL INSTRUMENTS, LIMITED
006072 (base 16) VXL INSTRUMENTS, LIMITED
PLOT NO. 17, KONAPPANA AGRAHARA
BANGALORE - 561 229
IN

00-60-51 (hex) QUALITY SEMICONDUCTOR
006051 (base 16) QUALITY SEMICONDUCTOR
851 MARTIN AVENUE
SANTA CLARA CA 95050
US

00-60-92 (hex) MICRO/SYS, INC.
006092 (base 16) MICRO/SYS,
INC.
3447 OCEAN VIEW BLVD.
GLENDALE CA 91208
US

00-60-BA (hex) SAHARA NETWORKS, INC.
0060BA (base 16) SAHARA NETWORKS, INC.
335 HIGHLAND AVE.
CHESHIRE CT 06410
US

00-60-6D (hex) DIGITAL EQUIPMENT CORP.
00606D (base 16) DIGITAL EQUIPMENT CORP.
550 KING STREET
LITTLETON MA 01460
US

00-60-CE (hex) ACCLAIM COMMUNICATIONS
0060CE (base 16) ACCLAIM COMMUNICATIONS
5000 OLD IRONSIDES DRIVE
SANTA CLARA CA 95054
US

00-60-AF (hex) PACIFIC MICRO DATA, INC.
0060AF (base 16) PACIFIC MICRO DATA, INC.
16751 MILLIKAN AVENUE
IRVINE CA 92714
US

00-60-38 (hex) Nortel Networks
006038 (base 16) Nortel Networks
Global Operations Engineering
Brampton ON l6T 5P6 Cana
CA

00-60-CA (hex) HARMONIC SYSTEMS INCORPORATED
0060CA (base 16) HARMONIC SYSTEMS INCORPORATED
199 1ST STREET - STE #302
LOS ALTOS CA 94022
US

00-60-24 (hex) GRADIENT TECHNOLOGIES, INC.
006024
(base 16) GRADIENT TECHNOLOGIES, INC.
2 MOUNT ROYAL AVENUE
MARLBORO MA 01752
US

00-60-78 (hex) POWER MEASUREMENT LTD.
006078 (base 16) POWER MEASUREMENT LTD.
2195 KEATING CROSS ROAD
SAANICHTON, B.C. V8M 2A5
CA

00-60-04 (hex) COMPUTADORES MODULARES SA
006004 (base 16) COMPUTADORES MODULARES SA
AVDA MONTESIERRA S/N
41020-SEVILLA
ES

00-60-B4 (hex) GLENAYRE R&D INC.
0060B4 (base 16) GLENAYRE R&D INC.
1570 KOOTENAY STREET
VANCOUVER, BC V5K 5B8

CA

00-A0-1D (hex) Red Lion Controls, LP
00A01D (base 16) Red Lion Controls, LP
20 Willow Springs Circle
York NY 17402
US

00-60-D0 (hex) SNMP RESEARCH INCORPORATED
0060D0 (base 16) SNMP RESEARCH INCORPORATED
3001 KIMBERLIN HEIGHTS ROAD
KNOXVILLE TN 37920-9716
US

00-60-B7 (hex) CHANNELMATIC, INC.
0060B7 (base 16) CHANNELMATIC, INC.
1700 GILLESPIE WAY
EL CAJON CA 92020-0901
US

00-60-06
(hex) SOTEC CO., LTD
006006 (base 16) SOTEC CO., LTD
YOKOHAMA BASHAMICHI BLDG.,
YOKOHAMA 231
JP

00-A0-B9 (hex) EAGLE TECHNOLOGY, INC.
00A0B9 (base 16) EAGLE TECHNOLOGY, INC.
6800 ORANGETHORPE AVE.UNIT
BUENA PARK CA 90620
US

00-A0-19 (hex) NEBULA CONSULTANTS, INC.
00A019 (base 16) NEBULA CONSULTANTS, INC.
1449 DUNCAN DRIVE
DELTA, BC V4L 1R5
CA

00-A0-ED (hex) Brooks Automation, Inc.
00A0ED (base 16) Brooks Automation, Inc.
15 Elizabeth Drive
Chelmsford MA 01824
US

00-60-4F (hex) Tattile SRL
00604F (base 16) Tattile SRL
552-51 AJIGAURA

IBARAKI, 311-12
JP

00-60-E8 (hex) HITACHI COMPUTER PRODUCTS (AMERICA), INC.
0060E8 (base 16) HITACHI COMPUTER PRODUCTS (AMERICA), INC.
3101 TASMAN DRIVE
SANTA CLARA CA 95054
US

00-A0-65 (hex) Symantec Corporation
00A065 (base 16) Symantec Corporation
20330 Stevens Creek Blvd.
Cupertino CA 95014
US

00-A0-A3
(hex) RELIABLE POWER METERS
00A0A3 (base 16) RELIABLE POWER METERS
400 BLOSSOM HILL ROAD
LOS GATOS CA 95032-4511
US

00-A0-55 (hex) Data Device Corporation
00A055 (base 16) Data Device Corporation
105 Wilbur Place
Bohemia NY 11716
US

00-A0-74 (hex) PERCEPTION TECHNOLOGY
00A074 (base 16) PERCEPTION TECHNOLOGY
40 SHAWMUT ROAD
CANTON MA 02021-1409
US

00-A0-7F (hex) GSM-SYNTEL, LTD.
00A07F (base 16) GSM-SYNTEL, LTD.
VICTORIA WORKS, QUEENS MILL RD
HD1 3PG ENGLAND
GB

00-A0-D0 (hex) TEN X TECHNOLOGY, INC.
00A0D0 (base 16) TEN X TECHNOLOGY, INC.
13091 POND SPRINGS ROAD, Suite B-200
AUSTIN TX 78729
US

00-A0-BC (hex) VIASAT, INCORPORATED
00A0BC (base 16) VIASAT, INCORPORATED

6155 El Camino Real
Carlsbad Ca 92009
US

00-A0-A6 (hex) M.I. SYSTEMS, K.K.
00A0A6 (base 16) M.I. SYSTEMS, K.K.
2-7-12-308 Satsukigaoka
Ikeda-Shi Osaka 563-0029
JP

00-A0-51
(hex) ANGIA COMMUNICATIONS. INC.
00A051 (base 16) ANGIA COMMUNICATIONS. INC.
441 EAST BAY BLVD.
PROVO UTAH 84606
US

00-A0-13 (hex) TELTREND LTD.
00A013 (base 16) TELTREND LTD.
RINGWAY HOUSE, BELL ROAD
BASINGSTOKE HAMPSHIRE RG24 8F
GB

00-A0-29 (hex) COULTER CORPORATION
00A029 (base 16) COULTER CORPORATION
11800 S.W. 147TH AVE.
MIAMI FL 33196
US

00-A0-87 (hex) Microsemi Corporation
00A087 (base 16) Microsemi Corporation
400 March Road
Ontario K2K 3H4
CA

00-A0-43 (hex) AMERICAN TECHNOLOGY LABS, INC.
00A043 (base 16) AMERICAN TECHNOLOGY LABS, INC.
115 WEST 3RD STREET
STEVENSVILLE MT 59870
US

00-A0-A0 (hex) COMPACT DATA, LTD.
00A0A0 (base 16) COMPACT DATA, LTD.
58 DITTON WALK
CAMBRIDGE CB5 8QE
GB

00-A0-5B (hex) MARQUIP, INC.

00A05B (base 16) MARQUIP, INC.
1245 E. WASHINGTON AVE.
MADISON WI 53703
US

00-A0-8C
(hex) MultiMedia LANs, Inc.
00A08C (base 16) MultiMedia LANs, Inc.
5600 EXECUTIVE CENTER DRIVE
CHARLOTTE NC 28212
US

00-A0-38 (hex) EMAIL ELECTRONICS
00A038 (base 16) EMAIL ELECTRONICS
P.O. BOX 154
MOOROOLBARK, 3138
AU

00-A0-77 (hex) FUJITSU NEXION, INC.
00A077 (base 16) FUJITSU NEXION, INC.
289 GREAT ROAD
ACTON MA 01720-4739
US

00-A0-D7 (hex) KASTEN CHASE APPLIED RESEARCH
00A0D7 (base 16) KASTEN CHASE APPLIED RESEARCH
5100 ORBITOR DRIVE
L4W 4Z4
CA

00-A0-F1 (hex) MTI
00A0F1 (base 16) MTI
4905 E. LA PALMA AVENUE
ANAHEIM CA 92807
US

00-A0-FF (hex) TELLABS OPERATIONS, INC.
00A0FF (base 16) TELLABS OPERATIONS, INC.
1000 REMINGTON BLVD.
60440
US

00-A0-E5 (hex) NHC COMMUNICATIONS
00A0E5 (base 16) NHC COMMUNICATIONS
5450 COTE DE LIESSE
MONTREAL, QUEBEC H4P 1A5
CA

00-A0-36 (hex) APPLIED NETWORK TECHNOLOGY
00A036 (base 16) APPLIED
NETWORK TECHNOLOGY
319 LITTLETON ROAD--STE #101
WESTFORD MA 01886-4133
US

00-A0-D2 (hex) ALLIED TELESIS INTERNATIONAL CORPORATION
00A0D2 (base 16) ALLIED TELESIS INTERNATIONAL CORPORATION
950 KIFER ROAD
SUNNYVALE CA 94086
US

00-A0-D3 (hex) INSTEM COMPUTER SYSTEMS, LTD.
00A0D3 (base 16) INSTEM COMPUTER SYSTEMS, LTD.
WALTON INDUSTRIAL ESTATE

GB

00-A0-B4 (hex) TEXAS MICROSYSTEMS, INC.
00A0B4 (base 16) TEXAS MICROSYSTEMS, INC.
5959 CORPORATE DRIVE
HOUSTON TX 77036
US

00-A0-3B (hex) TOSHIN ELECTRIC CO., LTD.
00A03B (base 16) TOSHIN ELECTRIC CO., LTD.
3FL. RIVER-STONE 3RD. BLG.234
213
JP

00-A0-F3 (hex) STAUBLI
00A0F3 (base 16) STAUBLI
183 RUE DES USINES

FR

00-A0-42 (hex) SPUR PRODUCTS CORP.
00A042 (base 16) SPUR PRODUCTS CORP.
9288 W. EMERALD STREET
BOISE ID 83704
US

00-A0-C1 (hex) ORTIVUS MEDICAL AB
00A0C1 (base 16) ORTIVUS
MEDICAL AB
BOX 513

SE

00-A0-4F (hex) AMERITEC CORP.
00A04F (base 16) AMERITEC CORP.
760 ARROW GRAND CIRCLE
COVINA CA 91722
US

00-A0-CF (hex) SOTAS, INC.
00A0CF (base 16) SOTAS, INC.
2 RESEARCH PLACE, STE.
ROCKVILLE MD 20850
US

00-A0-72 (hex) OVATION SYSTEMS LTD.
00A072 (base 16) OVATION SYSTEMS LTD.
GREAT HASELEY TRAD. EST.
ENGLAND
GB

00-A0-82 (hex) NKT ELEKTRONIK A/S
00A082 (base 16) NKT ELEKTRONIK A/S
NKT ALLE 85

DK

00-A0-F0 (hex) TORONTO MICROELECTRONICS INC.
00A0F0 (base 16) TORONTO MICROELECTRONICS INC.
5149 BRADCO BOULEVARD
L4W 2A6
CA

00-A0-9B (hex) QPSX COMMUNICATIONS, LTD.
00A09B (base 16) QPSX COMMUNICATIONS, LTD.
33 RICHARDSON STREET
Western 00000
AU

00-A0-00 (hex) CENTILLION NETWORKS, INC.
00A000 (base 16) CENTILLION NETWORKS, INC.
359 RAVENDALE DRIVE
MOUNTAIN VIEW CA 94043
US

00-A0-8A
(hex) BROOKTROUT TECHNOLOGY, INC.
00A08A (base 16) BROOKTROUT TECHNOLOGY, INC.
144 GOULD STREET- SUITE #200

NEEDHAM MA 02194
US

00-A0-7B (hex) DAWN COMPUTER INCORPORATION
00A07B (base 16) DAWN COMPUTER INCORPORATION
6 KEXUEYUAN SOUTH ROAD

CN

00-A0-5C (hex) INVENTORY CONVERSION, INC./
00A05C (base 16) INVENTORY CONVERSION, INC./
NEKOTECH DIVISION
HAMPTON NH 03842
US

00-20-0F (hex) EBRAINS Inc
00200F (base 16) EBRAINS Inc
Tachibana Bldg
Taito-ku Tokyo 110-0003
JP

00-20-DF (hex) KYOSAN ELECTRIC MFG. CO., LTD.
0020DF (base 16) KYOSAN ELECTRIC MFG. CO., LTD.
2-29, HEIAN-CHO, TSURUMI-KU

JP

00-20-C7 (hex) AKAI Professional M.I. Corp.
0020C7 (base 16) AKAI Professional M.I. Corp.
1-3, Hiranuma 1-Chome,
220-0023
JP

00-20-92 (hex) CHESS ENGINEERING B.V.
002092 (base 16) CHESS ENGINEERING B.V.
NIEUWE GRACHT 74

NL

00-20-2B
(hex) ADVANCED TELECOMMUNICATIONS MODULES, LTD.
00202B (base 16) ADVANCED TELECOMMUNICATIONS MODULES, LTD.

Cambridge CB3 OBL
GB

00-20-6B (hex) KONICA MINOLTA HOLDINGS, INC.
00206B (base 16) KONICA MINOLTA HOLDINGS, INC.

1-6-1, Marunouchi,
Tokyo 100-0005
JP

00-A0-60 (hex) ACER PERIPHERALS, INC.
00A060 (base 16) ACER PERIPHERALS, INC.
9F, 135 CHIAN KUO N. RD. SEC 2

TW

00-A0-83 (hex) ASIMMPHONY TURKEY
00A083 (base 16) ASIMMPHONY TURKEY
ELECTRONICS, LTD.
V7C 4N1
CA

00-A0-04 (hex) NETPOWER, INC.
00A004 (base 16) NETPOWER, INC.
545 OAKMEAD PARKWAY
SUNNYVALE CA 94086
US

00-20-87 (hex) MEMOTEC, INC.
002087 (base 16) MEMOTEC, INC.
7755 Henri-Bourassa
MONTREAL, QUEBEC H4S 1P7
CA

00-20-F9 (hex) PARALINK NETWORKS, INC.
0020F9 (base 16) PARALINK NETWORKS, INC.
4F, NO. 27, SEC.3, PATEH RD.
TAIPEI
TW

00-A0-AA (hex) SPACELABS MEDICAL
00A0AA
(base 16) SPACELABS MEDICAL
5150 220 Ave SE
Issaquah WA 98027
US

00-20-06 (hex) GARRETT COMMUNICATIONS, INC.
002006 (base 16) GARRETT COMMUNICATIONS, INC.
48531 WARMSPRINGS BLVD.
FREMONT CA 94539
US

00-20-24 (hex) PACIFIC COMMUNICATION SCIENCES

002024 (base 16) PACIFIC COMMUNICATION SCIENCES
9645 SCRANTON ROAD
SAN DIEGO CA 92121
US

00-20-D1 (hex) MICROCOMPUTER SYSTEMS (M) SDN.
0020D1 (base 16) MICROCOMPUTER SYSTEMS (M) SDN.
23-25, JALAN JEJAKA TUJUH

MY

00-20-CE (hex) LOGICAL DESIGN GROUP, INC.
0020CE (base 16) LOGICAL DESIGN GROUP, INC.
6301 CHAPEL HILL ROAD
RALEIGH NC 27607
US

00-20-14 (hex) GLOBAL VIEW CO., LTD.
002014 (base 16) GLOBAL VIEW CO., LTD.
4F, NO. 23, LANE 306
TAIWAN R.O.C.
TW

00-20-B3 (hex) Tattile SRL
0020B3 (base 16) Tattile SRL
3 APOLLO PLACE

AU

00-20-16 (hex) SHOWA ELECTRIC WIRE & CABLE
CO
002016 (base 16) SHOWA ELECTRIC WIRE & CABLE CO
NO. 20-25, SEISHIN 8-CHOME
229
JP

00-20-4D (hex) INOVIS GMBH
00204D (base 16) INOVIS GMBH
HANNS-BRAUN STRASSE 50

DE

00-20-5F (hex) GAMMADATA COMPUTER GMBH
00205F (base 16) GAMMADATA COMPUTER GMBH
GUTENBERGSTR. 13

DE

00-20-1F (hex) BEST POWER TECHNOLOGY, INC.
00201F (base 16) BEST POWER TECHNOLOGY, INC.
P.O. BOX 280
NECEDAH WI 54646
US

00-20-B6 (hex) AGILE NETWORKS, INC.
0020B6 (base 16) AGILE NETWORKS, INC.
200 BAKER AVENUE
CONCORD MA 01742
US

00-20-ED (hex) GIGA-BYTE TECHNOLOGY CO., LTD.
0020ED (base 16) GIGA-BYTE TECHNOLOGY CO., LTD.
365 CLOVERLEAF
BALDWIN PARK CA 91706
US

00-20-85 (hex) Eaton Corporation
002085 (base 16) Eaton Corporation
8380 Capital Blvd.
RALEIGH NC 27616
US

00-20-CD (hex) HYBRID NETWORKS, INC.
0020CD (base 16) HYBRID NETWORKS, INC.
10201
BUBB ROAD
CUPERTINO CA 95014-4167
US

00-20-2E (hex) DAYSTAR DIGITAL
00202E (base 16) DAYSTAR DIGITAL
5556 ATLANTA HIGHWAY
FLOWERY BRANCH GA 30542
US

00-20-29 (hex) TELEPROCESSING PRODUCTS, INC.
002029 (base 16) TELEPROCESSING PRODUCTS, INC.
4565 E. INDUSTRIAL STREET
SIMI VALLEY CA 93063
US

00-20-69 (hex) ISDN SYSTEMS CORPORATION
002069 (base 16) ISDN SYSTEMS CORPORATION
8320 OLD COURTHOUSE RD.
VIENNA VA 22182
US

00-20-8B (hex) LAPIS TECHNOLOGIES, INC.
00208B (base 16) LAPIS TECHNOLOGIES, INC.
1100 MARINA VILLAGE PKWY
ALAMEDA CA 94501
US

00-20-E5 (hex) APEX DATA, INC.
0020E5 (base 16) APEX DATA, INC.
6624 OWENS DRIVE
PLEASANTON CA 94588
US

00-20-43 (hex) NEURON COMPANY LIMITED
002043 (base 16) NEURON COMPANY LIMITED
15 KWAI YI ROAD, BLOCK 2,
KWAI CHUNG, N.T.
HK

00-20-71 (hex) IBR GMBH
002071 (base 16) IBR GMBH
KOHLERSTR. 45
D-46286
DORSTEN
DE

00-20-57 (hex) TITZE DATENTECHNIK GmbH
002057 (base 16) TITZE DATENTECHNIK GmbH
DIESELSTRASSE 10
DS-71272 RENNINGEN-2
DE

00-20-15 (hex) ACTIS COMPUTER SA
002015 (base 16) ACTIS COMPUTER SA
16 CHEMIN DES AULX

CH

00-20-99 (hex) BON ELECTRIC CO., LTD.
002099 (base 16) BON ELECTRIC CO., LTD.
4-4 28, MIZUDO-CHO
HYOGO HYOGO
JP

00-20-C2 (hex) TEXAS MEMORY SYSTEMS, INC.
0020C2 (base 16) TEXAS MEMORY SYSTEMS, INC.
11200 WESTHEIMER RD-STE#1000
HOUSTON TX 77042

US

00-20-5D (hex) NANOMATIC OY
00205D (base 16) NANOMATIC OY
PUISTOLAN RAITTI 4

FI

00-20-04 (hex) YAMATAKE-HONEYWELL CO., LTD.
002004 (base 16) YAMATAKE-HONEYWELL CO., LTD.
54 SUZUKAWA, ISEHARA
KANAGAWA 259-11
JP

00-20-BC (hex) Long Reach Networks Pty Ltd
0020BC (base 16) Long Reach Networks Pty Ltd
Unit 3, 118-122 Bowden St
MEADOWBANK NSW 2114

AU

00-20-7C (hex) AUTEC GMBH
00207C (base 16) AUTEC GMBH
BAHNHOFSTR. 57
55234 FRAMERSHEIM
DE

00-20-EE (hex) GTECH CORPORATION
0020EE (base 16) GTECH CORPORATION
55 TECHNOLOGY WAY
WEST GREENWICH RI 02817
US

00-20-4C (hex) MITRON COMPUTER PTE LTD.
00204C (base 16) MITRON COMPUTER PTE LTD.
1020 HOUGANG AVENUE 1 #03-3504
SINGAPORE 1953
SG

00-20-17 (hex) ORBOTECH
002017 (base 16) ORBOTECH
INDUSTRIAL ZONE

IL

00-20-93 (hex) LANDINGS TECHNOLOGY CORP.
002093 (base 16) LANDINGS TECHNOLOGY CORP.
163 WATER STREET

EXETER NH 03833
US

00-20-63 (hex) WIPRO INFOTECH LTD.
002063 (base 16) WIPRO INFOTECH LTD.
UNITS 47-48, SDF BLOCK VII

00-20-56 (hex) NEOPRODUCTS
002056 (base 16) NEOPRODUCTS
25 CHAPMAN STREET

AU

00-20-42 (hex) DATAMETRICS CORP.
002042 (base 16) DATAMETRICS CORP.
8966 COMANCHE AVE.
CHATSWORTH
CA 91311
US

00-20-78 (hex) RUNTOP, INC.
002078 (base 16) RUNTOP, INC.
5/F, NO. 10, ALLEY 8, LANE 45
TAIWAN R.O.C.
TW

00-C0-F3 (hex) NETWORK COMMUNICATIONS CORP.
00C0F3 (base 16) NETWORK COMMUNICATIONS CORP.
5501 GREEN VALLEY DRIVE
BLOOMINGTON MN 55437-1085
US

00-C0-C0 (hex) SHORE MICROSYSTEMS, INC.
00C0C0 (base 16) SHORE MICROSYSTEMS, INC.
23 POCAHONTAS AVENUE
OCEANPORT NJ 07757
US

00-C0-0C (hex) RELIA TECHNOLGIES
00C00C (base 16) RELIA TECHNOLGIES
1F., NO. 24, INDUSTRY E. 9TH
TAIWAN TAIWAN R.O.C.
TW

00-C0-67 (hex) UNITED BARCODE INDUSTRIES
00C067 (base 16) UNITED BARCODE INDUSTRIES

12240 INDIAN CREEK COURT
BELTSVILLE MD 20705
US

00-C0-A3 (hex) DUAL ENTERPRISES CORPORATION
00C0A3 (base 16) DUAL ENTERPRISES CORPORATION
9TH FLOOR 48 NAN-KANG ROAD
TAIWAN TAIWAN R.O.C.
TW

00-C0-73 (hex) XEDIA CORPORATION
00C073 (base 16) XEDIA CORPORATION
301
BALLARDVALE STREET
WILMINGTON MA 01887
US

00-C0-D4 (hex) AXON NETWORKS, INC.
00C0D4 (base 16) AXON NETWORKS, INC.
104 SPRUCE STREET
WATERTOWN MA 02172
US

00-C0-CD (hex) COMELTA, S.A.
00C0CD (base 16) COMELTA, S.A.
AVDA. PARC TECNOLOGIC, 4

ES

00-C0-90 (hex) PRAIM S.R.L.
00C090 (base 16) PRAIM S.R.L.
VIA MACCANI, 169
ITALY

00-C0-DE (hex) ZCOMM, INC.
00C0DE (base 16) ZCOMM, INC.
1050 C EAST DUANE AVENUE
SUNNYVALE CA 94086
US

00-C0-33 (hex) TELEBIT COMMUNICATIONS APS
00C033 (base 16) TELEBIT COMMUNICATIONS APS
SKANDERBORGVEJ 234

DK

00-C0-05 (hex) LIVINGSTON ENTERPRISES, INC.

00C005 (base 16) LIVINGSTON ENTERPRISES, INC.
6920 KOLL CENTER PARKWAY #220
PLEASANTON CA 94566
US

00-C0-77 (hex) DAEWOO TELECOM LTD.
00C077 (base 16) DAEWOO TELECOM LTD.
PRODUCTS DESIGN DEPT. 1
SEOUL SEOUL KOREA
KR

00-C0-C8 (hex) MICRO
BYTE PTY. LTD.
00C0C8 (base 16) MICRO BYTE PTY. LTD.
197 SHERBOURNE RD.
AUSTRALIA 3094
AU

00-C0-69 (hex) Axxcelera Broadband Wireless
00C069 (base 16) Axxcelera Broadband Wireless
111 Castilian Drive
Santa Barbara CA 93117
US

00-C0-13 (hex) NETRIX
00C013 (base 16) NETRIX
13595 DULLES TECHNOLOGY DRIVE
HERNDON VA 22071
US

00-C0-58 (hex) DATAEXPERT CORP.
00C058 (base 16) DATAEXPERT CORP.
1156 SONOPRA COURTN-KANG RD.
SUNNYVALE CA 94086
US

00-C0-D0 (hex) RATOC SYSTEM INC.
00C0D0 (base 16) RATOC SYSTEM INC.
ASAHI NAMBA BLDG.
556
JP

00-C0-BF (hex) TECHNOLOGY CONCEPTS, LTD.
00C0BF (base 16) TECHNOLOGY CONCEPTS, LTD.
GRANGE ESTATE
UNITED KINGDOM
GB

00-C0-18 (hex) LANART CORPORATION
00C018 (base 16) LANART CORPORATION
145 ROSEMARY STREET
NEEDHAM MA 02194
US

00-9D-8E (hex) CARDIAC RECORDERS, INC.
009D8E (base 16) CARDIAC RECORDERS,
INC.
34 SCARBORO ROAD
UNITED KINGDOM
GB

00-BB-01 (hex) OCTOTHORPE CORP.
00BB01 (base 16) OCTOTHORPE CORP.
285 WEST GREEN STREET
PASADENA CA 91105
US

00-C0-6B (hex) OSI PLUS CORPORATION
00C06B (base 16) OSI PLUS CORPORATION
2-1-23 NAKAMEGURO

JP

00-C0-4C (hex) DEPARTMENT OF FOREIGN AFFAIRS
00C04C (base 16) DEPARTMENT OF FOREIGN AFFAIRS
& TRADE

AU

00-C0-7C (hex) HIGHTECH INFORMATION
00C07C (base 16) HIGHTECH INFORMATION
SYSTEM LTD.
HONG KONG
HK

00-C0-B8 (hex) FRASER'S HILL LTD.
00C0B8 (base 16) FRASER'S HILL LTD.
27502 W. GILL ROAD
MORRISTOWN AZ 85342
US

00-C0-62 (hex) IMPULSE TECHNOLOGY
00C062 (base 16) IMPULSE TECHNOLOGY
210 DAHLONEGA ST.#204
CUMMING GA 30130
US

00-C0-EC (hex) DAUPHIN TECHNOLOGY
00C0EC (base 16) DAUPHIN TECHNOLOGY
450 EISENHOWER LANE NORTH
LOMBARD IL 60148
US

00-C0-16 (hex) ELECTRONIC
THEATRE CONTROLS
00C016 (base 16) ELECTRONIC THEATRE CONTROLS
3030 LAURA LANE
MIDDLETON WI 53562
US

00-C0-86 (hex) THE LYNK CORPORATION
00C086 (base 16) THE LYNK CORPORATION
101 QUEENS DRIVE
KING OF PRUSSIA PA 19406
US

00-C0-6C (hex) SVEC COMPUTER CORP.
00C06C (base 16) SVEC COMPUTER CORP.
3F, 531-1 CHUNG CHENG RD.
TAIWAN TAIWAN R.O.C.
TW

00-40-FF (hex) TELEBIT CORPORATION
0040FF (base 16) TELEBIT CORPORATION
1315 CHESAPEAKE TERRACE
SUNNYVALE CA 94089-1100
US

00-40-1F (hex) COLORGRAPH LTD
00401F (base 16) COLORGRAPH LTD
UNIT 2, MARS HOUSE
RG7 4QW - UNITED KINGDOM
GB

00-40-AF (hex) DIGITAL PRODUCTS, INC.
0040AF (base 16) DIGITAL PRODUCTS, INC.
411 WAVERLY OAKS ROAD
WALTHAM MA 02154
US

00-40-F7 (hex) Polaroid Corporation
0040F7 (base 16) Polaroid Corporation
300 Baker Avenue
Concord MA 01742

US

00-40-37 (hex) SEA-ILAN, INC.
004037
(base 16) SEA-ILAN, INC.
14602 NORTH US HIGHWAY #31
CARMEL IN 46032
US

00-40-4E (hex) FLUENT, INC.
00404E (base 16) FLUENT, INC.
594 WORCESTER ROAD-STE.#308
NATICK MA 01760
US

00-40-8D (hex) THE GOODYEAR TIRE & RUBBER CO.
00408D (base 16) THE GOODYEAR TIRE & RUBBER CO.
1144 EAST MARKET STREET
AKRON OH 44316
US

00-C0-26 (hex) LANS TECHNOLOGY CO., LTD.
00C026 (base 16) LANS TECHNOLOGY CO., LTD.
153 MINTSU RD. 2F, TAOYUAN,
TAIWAN R. O. C.
TW

00-C0-D5 (hex) Werbeagentur Jürgen Siebert
00C0D5 (base 16) Werbeagentur Jürgen Siebert
Im Klostergarten 8
D-50321 Brühl
DE

00-C0-63 (hex) MORNING STAR TECHNOLOGIES, INC
00C063 (base 16) MORNING STAR TECHNOLOGIES, INC
1760 ZOLLINGER ROAD
COLUMBUS OH 43221
US

00-C0-21 (hex) NETEXPRESS
00C021 (base 16) NETEXPRESS
989 EAST HILLSDALE BLVD.
FOSTER CITY CA 94404-2113
US

00-C0-C1 (hex) QUAD/GRAPHICS,
INC.
00C0C1 (base 16) QUAD/GRAPHICS, INC.

N63 W23075 HWY 74
SUSSEX WI 53089
US

00-C0-BA (hex) NETVANTAGE
00C0BA (base 16) NETVANTAGE
201 CONTINENTAL BLVD.-STE.#201
EL SECUNDO CA 90245
US

00-C0-5E (hex) VARI-LITE, INC.
00C05E (base 16) VARI-LITE, INC.
201 REGAL ROW
DALLAS TX 75247
US

00-C0-DB (hex) IPC CORPORATION (PTE) LTD.
00C0DB (base 16) IPC CORPORATION (PTE) LTD.
122 EUNOS AVE., 7 #05-10
SINGAPORE 1440
SG

00-C0-9B (hex) Tellabs Enterprise, Inc.
00C09B (base 16) Tellabs Enterprise, Inc.
4240 International Parkway Suite 105
Carrollton TX 75007
US

00-C0-89 (hex) TELINDUS DISTRIBUTION
00C089 (base 16) TELINDUS DISTRIBUTION
GELDENAAKSEBAAN 335

BE

00-C0-E3 (hex) OSITECH COMMUNICATIONS, INC.
00C0E3 (base 16) OSITECH COMMUNICATIONS, INC.
679 SOUTHGATE DRIVE
CANADA N1G 4S2
CA

00-C0-FE (hex) APTEC COMPUTER SYSTEMS,
INC.
00C0FE (base 16) APTEC COMPUTER SYSTEMS, INC.
P.O. BOX 6750
PORTLAND OR 97228-6750
US

00-C0-B0 (hex) GCC TECHNOLOGIES,INC.

00C0B0 (base 16) GCC TECHNOLOGIES,INC.
580 WINTER STREET
WALTHAM MA 02154
US

00-C0-CA (hex) ALFA, INC.
00C0CA (base 16) ALFA, INC.
11-1, INDUSTRY EAST ROAD IV
TAIWAN
TW

00-C0-BC (hex) TELECOM AUSTRALIA/CSSC
00C0BC (base 16) TELECOM AUSTRALIA/CSSC
LOCKED BAG 8812

AU

00-C0-0A (hex) MICRO CRAFT
00C00A (base 16) MICRO CRAFT
2-4-3 NISHIFURUMATSU

JP

00-C0-74 (hex) TOYODA AUTOMATIC LOOM
00C074 (base 16) TOYODA AUTOMATIC LOOM
WORKS, LTD.
448
JP

00-C0-4A (hex) GROUP 2000 AG
00C04A (base 16) GROUP 2000 AG
P.O. BOX 331

CH

00-40-F2 (hex) JANICH & KLASS COMPUTERTECHNIK
0040F2 (base 16) JANICH & KLASS COMPUTERTECHNIK
ZUM ALTEN ZOLLHAUS 20

DE

00-40-A2 (hex) KINGSTAR TECHNOLOGY
INC.
0040A2 (base 16) KINGSTAR TECHNOLOGY INC.
1-3F, NO. 185, SEC. 3,
TAIPEI TAIWAN, R.O.C.
TW

00-40-DC (hex) TRITEC ELECTRONIC GMBH
0040DC (base 16) TRITEC ELECTRONIC GMBH
ROBERT KOCH STR. 35

DE

00-40-54 (hex) CONNECTION MACHINES SERVICES
004054 (base 16) CONNECTION MACHINES SERVICES
12 HENSHAW STREET
WOBURN MA 01801-466664
US

00-40-04 (hex) ICM CO. LTD.
004004 (base 16) ICM CO. LTD.
4-2-9 NIHONBASHI NANIWA-KU

JP

00-40-18 (hex) ADOBE SYSTEMS, INC.
004018 (base 16) ADOBE SYSTEMS, INC.
1585 CHARLESTON ROAD
MOUNTAIN VIEW CA 94043
US

00-C0-D7 (hex) TAIWAN TRADING CENTER DBA
00C0D7 (base 16) TAIWAN TRADING CENTER DBA
TTC COMPUTER PRODUCTS
IRVING TX 75038
US

00-40-DA (hex) TELSPEC LTD
0040DA (base 16) TELSPEC LTD
LANCASTER PARKER ROAD
ENGLAND
GB

00-40-A6 (hex) Cray, Inc.
0040A6 (base 16) Cray, Inc.
655F LONE OAK DRIVE
EAGAN
MN 55121
US

00-40-30 (hex) GK COMPUTER
004030 (base 16) GK COMPUTER
BASLER STRASSE 103

DE

00-40-40 (hex) RING ACCESS, INC.
004040 (base 16) RING ACCESS, INC.
957-R INDUSTRIAL ROAD
SAN CARLOS CA 94070
US

00-80-57 (hex) ADSOFT, LTD.
008057 (base 16) ADSOFT, LTD.
Im Baumgarten 6
MOHLIN CH-4313
CH

00-80-BB (hex) HUGHES LAN SYSTEMS
0080BB (base 16) HUGHES LAN SYSTEMS
1225 CHARLESTON ROAD
MOUNTAIN VIEW CA 94043
US

00-40-3D (hex) Teradata Corporation
00403D (base 16) Teradata Corporation
17095 Via Del Campo
San Diego CA 92127
US

00-40-D0 (hex) MITAC INTERNATIONAL CORP.
0040D0 (base 16) MITAC INTERNATIONAL CORP.
8TH FL. 585 MING SHENG E. RD.

TW

00-40-AB (hex) ROLAND DG CORPORATION
0040AB (base 16) ROLAND DG CORPORATION
1-1-3 Shinmiyakoda, Kita-ku
Hamamatsu-shi Shizuoka-ken 431-2103
JP

00-40-B6 (hex) COMPUTERM
CORPORATION
0040B6 (base 16) COMPUTERM CORPORATION
111 WOOD STREET
PITTSBURGH PA 15222
US

00-40-A3 (hex) MICROUNITY SYSTEMS ENGINEERING
0040A3 (base 16) MICROUNITY SYSTEMS ENGINEERING
255 CASPIAN DRIVE
SUNNYVALE CA 94089-1015

US

00-40-B3 (hex) ParTech Inc.
0040B3 (base 16) ParTech Inc.
8383 Seneca Turnpike
NEW HARTFORD NY 13413
US

00-40-1D (hex) INVISIBLE SOFTWARE, INC.
00401D (base 16) INVISIBLE SOFTWARE, INC.
1142 CHESS DRIVE
FOSTER CITY CA 94404
US

00-40-46 (hex) UDC RESEARCH LIMITED
004046 (base 16) UDC RESEARCH LIMITED
8A KING WAN INDUSTRIAL BLDG.
HONG KONG
HK

00-40-4A (hex) WEST AUSTRALIAN DEPARTMENT
00404A (base 16) WEST AUSTRALIAN DEPARTMENT
OF EMPLOYMENT (DEVET)
WESTERN
AU

00-40-3C (hex) FORKS, INC.
00403C (base 16) FORKS, INC.
1-27-4 IRIYA,
110
JP

00-40-42 (hex) N.A.T. GMBH
004042 (base 16) N.A.T. GMBH
GOETHESTR.
2

DE

00-40-F9 (hex) COMBINET
0040F9 (base 16) COMBINET
333 W. EL CAMINO REAL-STE#310
SUNNYVALE CA 94087
US

00-40-7E (hex) EVERGREEN SYSTEMS, INC.
00407E (base 16) EVERGREEN SYSTEMS, INC.
120 LANDING COURT-SUITE

NOVATO CA 94945
US

00-40-3E (hex) RASTER OPS CORPORATION
00403E (base 16) RASTER OPS CORPORATION
2500 WALSH AVENUE
SANTA CLARA CA 95051
US

00-C0-6F (hex) KOMATSU LTD.
00C06F (base 16) KOMATSU LTD.
3-25-1, Shinomiya
Hiratsuka-Shi Kanagawa-Ken 254-8555
JP

00-C0-A7 (hex) SEEL LTD.
00C0A7 (base 16) SEEL LTD.
3 YOUNG SQUARE
SCOTLAND
GB

00-40-1B (hex) PRINTER SYSTEMS CORP.
00401B (base 16) PRINTER SYSTEMS CORP.
207 PERRY PARKWAY
GAITHERSBURG MD 20877-2142
US

00-40-EE (hex) OPTIMEM
0040EE (base 16) OPTIMEM
297 N. BERNARDO AVENUE
MOUNTAIN VIEW CA 94043-5205
US

00-40-51 (hex) Garbee and Garbee
004051
(base 16) Garbee and Garbee
4390 Darr Circle
Colorado Springs CO 80908
US

00-40-7A (hex) SOCIETE D'EXPLOITATION DU CNIT
00407A (base 16) SOCIETE D'EXPLOITATION DU CNIT
2 GLACE DE LA DEFENSE 92053

FR

00-40-31 (hex) KOKUSAI ELECTRIC CO., LTD
004031 (base 16) KOKUSAI ELECTRIC CO., LTD

2-1 YASUUCHI
TOYAMA 939-23
JP

00-40-D3 (hex) KIMPSION INTERNATIONAL CORP.
0040D3 (base 16) KIMPSION INTERNATIONAL CORP.
4701 PATRICK HENRY DRIVE
SANTA CLARA CA 95054
US

00-40-25 (hex) MOLECULAR DYNAMICS
004025 (base 16) MOLECULAR DYNAMICS
880 EAST ARQUES AVENUE
SUNNYVALE CA 94086-4536
US

00-40-C7 (hex) RUBY TECH CORPORATION
0040C7 (base 16) RUBY TECH CORPORATION
6F-1, NO.3, LANE 250,
TAIPEI TAIWAN, R.O.C.
TW

00-40-52 (hex) STAR TECHNOLOGIES, INC.
004052 (base 16) STAR TECHNOLOGIES, INC.
515 SHAW ROAD
STERLING VA 22075
US

00-40-2E (hex) PRECISION
SOFTWARE, INC.
00402E (base 16) PRECISION SOFTWARE, INC.
600 S FEDERAL HWY STE
DEERFIELD BEACH FL 33441-4193
US

00-40-2B (hex) TRIGEM COMPUTER, INC.
00402B (base 16) TRIGEM COMPUTER, INC.
KISUNG B/D 4F, 784-6
SEOUL KOREA 135-080
KR

00-40-1A (hex) FUJI ELECTRIC CO., LTD.
00401A (base 16) FUJI ELECTRIC CO., LTD.
NEW YURAKUCHO BLDG

JP

00-40-80 (hex) ATHENIX CORPORATION

004080 (base 16) ATHENIX CORPORATION
675 ALMANOR AVENUE
SUNNYVALE CA 94086
US

00-40-01 (hex) Zero One Technology Co. Ltd.
004001 (base 16) Zero One Technology Co. Ltd.
10 Fl., No. 8, Lane 360, Sec 1,
Neihu Dist., Taipei City 114
TW

00-40-71 (hex) ATM COMPUTER GMBH
004071 (base 16) ATM COMPUTER GMBH
BUCKLESTR. 1-5,POSTFACH 101043

DE

00-40-60 (hex) COMENDEC LTD
004060 (base 16) COMENDEC LTD
ENTERPRISE WAY,
BIRMINGHAM BIRMINGHAM ENGLAND
GB

00-40-56 (hex) MCM
JAPAN LTD.
004056 (base 16) MCM JAPAN LTD.
SYUUKAEN BLD. 2-11-1

JP

00-40-67 (hex) OMNIBYTE CORPORATION
004067 (base 16) OMNIBYTE CORPORATION
245 WEST ROOSEVELT ROAD
WEST CHICAGO IL 60185
US

00-40-C3 (hex) FISCHER AND PORTER CO.
0040C3 (base 16) FISCHER AND PORTER CO.
125 E. COUNTY LINE ROAD
WARMINSTER PA 18974
US

00-40-EC (hex) MIKASA SYSTEM ENGINEERING
0040EC (base 16) MIKASA SYSTEM ENGINEERING
CO., LTD.

JP

00-80-F1 (hex) OPUS SYSTEMS
0080F1 (base 16) OPUS SYSTEMS
3000 CORONADO DRIVE
SANTA CLARA CA 95054
US

00-80-29 (hex) EAGLE TECHNOLOGY, INC.
008029 (base 16) EAGLE TECHNOLOGY, INC.
6800 ORANGETHORPE AVE.UNIT
BUENA PARK CA 90620
US

00-80-72 (hex) MICROPLEX SYSTEMS LTD.
008072 (base 16) MICROPLEX SYSTEMS LTD.
301-2071 Kingsway
Port Coquitlam BC V3C6N2
CA

00-80-2F (hex) NATIONAL INSTRUMENTS CORP.
00802F (base 16) NATIONAL
INSTRUMENTS CORP.
11500 North Mopac Expressway
AUSTIN TX 78759-3504
US

00-80-54 (hex) FRONTIER TECHNOLOGIES CORP.
008054 (base 16) FRONTIER TECHNOLOGIES CORP.
10201 NO. PT. WASHINGTON ROAD
MEQUON WI 53092
US

00-80-53 (hex) INTELLICOM, INC.
008053 (base 16) INTELLICOM, INC.
20415 NORDHOFF STREET
CHATSWORTH CA 91311
US

00-80-26 (hex) NETWORK PRODUCTS CORPORATION
008026 (base 16) NETWORK PRODUCTS CORPORATION
1440 WEST COLORADO BLVD.
PASADENA CA 91105
US

00-80-B0 (hex) ADVANCED INFORMATION
0080B0 (base 16) ADVANCED INFORMATION
TECHNOLOGY, INC.

JP

00-80-FA (hex) RWT GMBH
0080FA (base 16) RWT GMBH
TALANGERSTR. 5-7
WEST
DE

00-80-FD (hex) EXSCEED CORPRATION
0080FD (base 16) EXSCEED CORPRATION
1-15-12, KITAKASE, SAIWAI-KU

JP

00-80-FE (hex) AZURE TECHNOLOGIES, INC.
0080FE (base 16) AZURE TECHNOLOGIES, INC.
63 SOUTH
STREET
HOPKINTON MA 01748-2212
US

00-80-3C (hex) TVS ELECTRONICS LTD
00803C (base 16) TVS ELECTRONICS LTD
44, MILLER ROAD

IN

00-80-46 (hex) Tattile SRL
008046 (base 16) Tattile SRL
DEPT. OF ELECTRICAL ENGIN'ING

CA

00-80-0E (hex) ATLANTIX CORPORATION
00800E (base 16) ATLANTIX CORPORATION
5401 NW BROKENSOUND BLVD.
BOCA RATON FL 33431
US

00-80-AB (hex) DUKANE NETWORK INTEGRATION
0080AB (base 16) DUKANE NETWORK INTEGRATION
2900 DUKANE DRIVE
ST. CHARLES IL 60174
US

00-40-02 (hex) PERLE SYSTEMS LIMITED
004002 (base 16) PERLE SYSTEMS LIMITED
60 RENFREW DRIVE
CANADA L3R 0E1

CA

00-40-49 (hex) Roche Diagnostics International Ltd.
004049 (base 16) Roche Diagnostics International Ltd.
FORRENSTRASSE
ROTKREUZ ZG 6343
CH

00-40-29 (hex) Compex
004029 (base 16) Compex

US

00-80-A2 (hex) CREATIVE ELECTRONIC SYSTEMS
0080A2
(base 16) CREATIVE ELECTRONIC SYSTEMS
Avenue Eugène-Lance 38bis

CH

00-80-4B (hex) EAGLE TECHNOLOGIES PTY.LTD.
00804B (base 16) EAGLE TECHNOLOGIES PTY.LTD.
70 KEYS ROAD

AU

00-80-EC (hex) SUPERCOMPUTING SOLUTIONS, INC.
0080EC (base 16) SUPERCOMPUTING SOLUTIONS, INC.
6175 NANCY RIDGE BLVD.
SAN DIEGO CA 92121
US

00-80-27 (hex) ADAPTIVE SYSTEMS, INC.
008027 (base 16) ADAPTIVE SYSTEMS, INC.
1400 N.W. COMPTON DRIVE
BEAVERTON OR 97006
US

00-80-FC (hex) AVATAR CORPORATION
0080FC (base 16) AVATAR CORPORATION
65 SOUTH STREET
HOPKINTON MA 01748
US

00-80-E4 (hex) NORTHWEST DIGITAL SYSTEMS, INC
0080E4 (base 16) NORTHWEST DIGITAL SYSTEMS, INC
P.O. BOX 15288

SEATTLE WA 98115
US

00-80-AD (hex) CNET TECHNOLOGY, INC.
0080AD (base 16) CNET TECHNOLOGY, INC.
2199 ZANKER ROAD
SAN JOSE CA 95131
US

00-80-11 (hex) DIGITAL SYSTEMS INT'L. INC.
008011
(base 16) DIGITAL SYSTEMS INT'L. INC.
7659 178TH PL. NE
REDMOND WA 98073-0908
US

00-80-34 (hex) SMT GOUPIL
008034 (base 16) SMT GOUPIL
3 RUE DES ARCHIVES

FR

00-80-2C (hex) THE SAGE GROUP PLC
00802C (base 16) THE SAGE GROUP PLC
SAGE HOUSE, BENTON PARK ROAD
UNITED KINGDOM
GB

00-80-C8 (hex) D-LINK SYSTEMS, INC.
0080C8 (base 16) D-LINK SYSTEMS, INC.
53 Discover Dr.
Irvine CA 92618
US

00-80-12 (hex) INTEGRATED MEASUREMENT SYSTEMS
008012 (base 16) INTEGRATED MEASUREMENT SYSTEMS
9525 SW GEMINI DRIVE
BEAVERTON OR 97005
US

00-80-A5 (hex) SPEED INTERNATIONAL
0080A5 (base 16) SPEED INTERNATIONAL
1320 ARBOLITA DR.
LA HABRA CA 90631
US

00-80-79 (hex) MICROBUS DESIGNS LTD.
008079 (base 16) MICROBUS DESIGNS LTD.

TREADAWAY HILL
UNITED KINGDOM
GB

00-80-B7 (hex) STELLAR COMPUTER
0080B7 (base 16) STELLAR COMPUTER
95 WELLS AVENUE
NEWTON
MA 02159

00-80-5C (hex) AGILIS CORPORATION
00805C (base 16) AGILIS CORPORATION
1101 SAN ANTONIO ROAD
Mountain View CA 94043-1008
US

00-80-C5 (hex) NOVELLCO DE MEXICO
0080C5 (base 16) NOVELLCO DE MEXICO
CONSTITUYENTES NO. 907
11950 MEXICO 11950 MEXICO D.F.
MX

00-80-D6 (hex) NUVOTECH, INC.
0080D6 (base 16) NUVOTECH, INC.
2015 BRIDGEWAY, SUITE 204
SAUSALITO CA 94965
US

00-80-0A (hex) JAPAN COMPUTER CORP.
00800A (base 16) JAPAN COMPUTER CORP.
L. K. BLDG. HIGASHI KANDA

JP

00-80-CC (hex) MICROWAVE BYPASS SYSTEMS
0080CC (base 16) MICROWAVE BYPASS SYSTEMS
25 BRAINTREE HILL OFFICE PARK
BRAINTREE MA 02184
US

00-00-A5 (hex) Tattile SRL
0000A5 (base 16) Tattile SRL
P.O. BOX 17220
BOULDER CO 80308-7220
US

00-00-36 (hex) ATARI CORPORATION

000036 (base 16) ATARI CORPORATION
1196 BORREGAS AVENUE
SUNNYVALE CA 94086
US

00-00-F8
(hex) DIGITAL EQUIPMENT CORPORATION
0000F8 (base 16) DIGITAL EQUIPMENT CORPORATION
LKG 1-2/A19
LITTLETON MA 01460-1289
US

00-80-14 (hex) ESPRIT SYSTEMS
008014 (base 16) ESPRIT SYSTEMS
14F, NO. 1, SEC. 4
TAIWAN TAIWAN R.O.C.
TW

00-00-79 (hex) NETWORTH INCORPORATED
000079 (base 16) NETWORTH INCORPORATED
8404 ESTERS BOULEVARD
IRVING TX 75063
US

00-00-91 (hex) ANRITSU CORPORATION
000091 (base 16) ANRITSU CORPORATION
1800, ONNA

JP

00-80-F6 (hex) SYNERGY MICROSYSTEMS
0080F6 (base 16) SYNERGY MICROSYSTEMS
9605 SCRANTON ROAD-STE #700
SAN DIEGO CA 92121-1773
US

00-80-78 (hex) PRACTICAL PERIPHERALS, INC.
008078 (base 16) PRACTICAL PERIPHERALS, INC.
375 CONEJO RIDGE AVENUE
THOUSAND OAKS CA 91361
US

00-80-7B (hex) ARTEL COMMUNICATIONS CORP.
00807B (base 16) ARTEL COMMUNICATIONS CORP.
22 KANE INDUSTRIAL DRIVE
HUDSON MA 01749
US

00-00-75
(hex) Nortel Networks
000075 (base 16) Nortel Networks
Global Operations Engineering
Brampton ON l6T 5P6 Cana
CA

00-00-ED (hex) APRIL
0000ED (base 16) APRIL
60, RUE DE CARTALE

FR

00-00-A3 (hex) NETWORK APPLICATION TECHNOLOGY
0000A3 (base 16) NETWORK APPLICATION TECHNOLOGY
1686 DELL AVENUE
CAMPBELL CA 95008
US

00-00-39 (hex) TOSHIBA CORPORATION
000039 (base 16) TOSHIBA CORPORATION
COMPUTER DIVISION
TOKYO 105
JP

00-00-3C (hex) AUSPEX SYSTEMS INC.
00003C (base 16) AUSPEX SYSTEMS INC.
5200 GREAT AMERICA PKWY
SANTA CLARA CA 95054
US

00-00-7E (hex) CLUSTRIX CORPORATION
00007E (base 16) CLUSTRIX CORPORATION
960 HAMLIN COURT
SUNNYVALE CA 94089
US

00-00-CB (hex) COMPU-SHACK ELECTRONIC GMBH
0000CB (base 16) COMPU-SHACK ELECTRONIC GMBH
RINGSTR. 56 - 58, 5450 NEUWIED
WEST
DE

00-00-CE (hex) MEGADATA CORP.
0000CE (base 16) MEGADATA
CORP.
35 ORVILLE DRIVE
BOHEMIA NY 11716

US

00-00-7B (hex) RESEARCH MACHINES
00007B (base 16) RESEARCH MACHINES
P.O. BOX 75
ENGLAND
GB

00-00-13 (hex) CAMEX
000013 (base 16) CAMEX
75 KNEELAND STREET
BOSTON MA 02111
US

00-00-95 (hex) SONY TEKTRONIX CORP.
000095 (base 16) SONY TEKTRONIX CORP.
P.O. BOX 5209 TOKYO INT'L

JP

00-00-57 (hex) SCITEX CORPORATION LTD.
000057 (base 16) SCITEX CORPORATION LTD.
P.O. BOX 330

IL

00-00-D6 (hex) PUNCH LINE HOLDING
0000D6 (base 16) PUNCH LINE HOLDING
P.O. BOX 391708
SOUTH AFRICA
ZA

00-00-7D (hex) Oracle Corporation
00007D (base 16) Oracle Corporation
17 Network Circle
Menlo Park CA 95025
US

00-00-96 (hex) MARCONI ELECTRONICS LTD.
000096 (base 16) MARCONI ELECTRONICS LTD.
BROWNS LANE, THE AIRPORT
UNITED KINGDOM
GB

00-00-5E (hex) ICANN, IANA Department
00005E
(base 16) ICANN, IANA Department
INTERNET ASS'NED NOS.AUTHORITY

Los Angeles CA 90094-2536
US

00-00-38 (hex) CSS LABS
000038 (base 16) CSS LABS
2134 SOUTH RIPCHEY
SANTA ANA CA 92705
US

00-00-60 (hex) Kontron Europe GmbH
000060 (base 16) Kontron Europe GmbH
Gutenbergstraße 2
Ismaning 85737
DE

08-00-6F (hex) PHILIPS APELDOORN B.V.
08006F (base 16) PHILIPS APELDOORN B.V.
P.O. BOX 105
THE
NL

00-00-0F (hex) NEXT, INC.
00000F (base 16) NEXT, INC.
3475 DEER CREEK ROAD
PALO ALTO CA 94304
US

00-00-BB (hex) TRI-DATA
0000BB (base 16) TRI-DATA
505 EAST MIDDLEFIELD ROAD
MOUNTAIN VIEW CA 94043-4082
US

00-00-44 (hex) CASTELLE CORPORATION
000044 (base 16) CASTELLE CORPORATION
3255-3 SCOTT BOULEVARD
SANTA CLARA CA 95054
US

00-00-9E (hex) MARLI S.A.
00009E (base 16) MARLI S.A.
CHEMIN TAVERNEY 3

CH

00-00-42 (hex) METIER
MANAGEMENT SYSTEMS LTD.
000042 (base 16) METIER MANAGEMENT SYSTEMS LTD.

3 FOUNDATION STREET
ENGLAND
GB

00-00-1A (hex) ADVANCED MICRO DEVICES
00001A (base 16) ADVANCED MICRO DEVICES
P.O. BOX 3453
SUNNYVALE CA 94088
US

00-00-7F (hex) LINOTYPE-HELL AG
00007F (base 16) LINOTYPE-HELL AG
POSTFACH 56 60

DE

08-00-7A (hex) INDATA
08007A (base 16) INDATA
GJERDRUMS VEI 12 C

NO

08-00-79 (hex) THE DROID WORKS
080079 (base 16) THE DROID WORKS
P.O. BOX CS 8180
SAN RAFAEL CA 94912
US

08-00-73 (hex) TECMAR INC.
080073 (base 16) TECMAR INC.
6225 COCHRAN ROAD
SOLON OH 44139
US

08-00-72 (hex) XEROX CORP UNIV GRANT PROGRAM
080072 (base 16) XEROX CORP UNIV GRANT PROGRAM
ZEROX SYSTEMS INSTITUTE
WEBSTER NY 14580
US

08-00-6A (hex) AT&T
08006A (base 16) AT&T
3300 E Renner Road
Richardson TX 75082
US

08-00-62 (hex) General

Dynamics
080062 (base 16) General Dynamics

Fort Worth TX
US

08-00-5C (hex) FOUR PHASE SYSTEMS
08005C (base 16) FOUR PHASE SYSTEMS
2001 LOGIC DRIVE
SAN JOSE CA 95124-3452
US

08-00-5A (hex) IBM Corp
08005A (base 16) IBM Corp
3039 E Cornwallis Road
Research Triangle Park NC 27709-2195
US

08-00-52 (hex) INSYSTEC
080052 (base 16) INSYSTEC
450 LAKEMONT AVENUE
WINTER PARK FL 32792
US

00-00-85 (hex) CANON INC.
000085 (base 16) CANON INC.
DVTECH. DEV. CENTER DEPT.12

JP

00-00-4A (hex) ADC CODENOLL TECHNOLOGY CORP.
00004A (base 16) ADC CODENOLL TECHNOLOGY CORP.
200 CORPORATE BLVD. SO.
YONKERS NY 10701
US

00-00-12 (hex) INFORMATION TECHNOLOGY LIMITED
000012 (base 16) INFORMATION TECHNOLOGY LIMITED
MAYLANDS AVE. HEMEL HEMPSTEAD
HERTS ENGLAND
GB

00-00-40 (hex) APPLICON, INC.
000040 (base 16) APPLICON, INC.
4251 PLYMOUTH RD 48015
ANN
ARBOR MI 48106-0986
US

00-00-5D (hex) CS TELECOM
00005D (base 16) CS TELECOM
4-16 AVENUE DU GENERAL LECLERC

FR

08-00-8F (hex) CHIPCOM CORPORATION
08008F (base 16) CHIPCOM CORPORATION
SOUTHBOROUGH OFFICE
SOUTHBOROUGH MA 01772-1886
US

00-00-8A (hex) DATAHOUSE INFORMATION SYSTEMS
00008A (base 16) DATAHOUSE INFORMATION SYSTEMS
DIRECTOR OF OPERATIONS
GU34 3QW ENGLAND
GB

00-00-32 (hex) Marconi plc
000032 (base 16) Marconi plc
28 ELSTREE WAY, BOREHAMWOOD
UNITED KINGDOM
GB

00-00-6A (hex) COMPUTER CONSOLES INC.
00006A (base 16) COMPUTER CONSOLES INC.
COMPUTER PRODUCTS DIVISION
IRVINE CA 92718
US

08-00-3E (hex) CODEX CORPORATION
08003E (base 16) CODEX CORPORATION
50 EAST COMMERCE DRIVE
SCHAUMBURG IL 60173
US

08-00-40 (hex) FERRANTI COMPUTER SYS. LIMITED
080040 (base 16) FERRANTI COMPUTER SYS. LIMITED
WYTHENSHAWE DIVISION

UNITED KINGDOM
GB

08-00-3A (hex) ORCATECH INC.
08003A (base 16) ORCATECH INC.
2680 QUEENSVIEW DRIVE
CANADA K2B 8H6

CA

08-00-3D (hex) CADNETIX CORPORATIONS
08003D (base 16) CADNETIX CORPORATIONS
5797 CENTRAL AVENUE
BOULDER CO 80301
US

08-00-38 (hex) BULL S.A.S.
080038 (base 16) BULL S.A.S.
rue Jean Jaures B.P.68
Les Clayes sous Bois 78430
FR

08-00-2F (hex) PRIME COMPUTER INC.
08002F (base 16) PRIME COMPUTER INC.
100 CROSBY DRIVE
BEDFORD MA 01730-1402
US

08-00-1E (hex) APOLLO COMPUTER INC.
08001E (base 16) APOLLO COMPUTER INC.
15 ELIZABETH DRIVE
CHELMSFORD MA 01824
US

08-00-19 (hex) GENERAL ELECTRIC CORPORATION
080019 (base 16) GENERAL ELECTRIC CORPORATION
1285 BOSTON AVENUE
BRIDGEPORT CT 06602
US

02-70-01 (hex) RACAL-DATACOM
027001 (base 16) RACAL-DATACOM
LAN INTERNETWORKING DIVISION
BOXBOROUGH MA 01719
US

08-00-2C (hex) BRITTON
LEE INC.
08002C (base 16) BRITTON LEE INC.
14600 WINCHESTER BLVD
LOS GATOS CA 95030
US

08-00-4D (hex) CORVUS SYSTEMS INC.
08004D (base 16) CORVUS SYSTEMS INC.
2100 CORVUS DRIVE

SAN JOSE CA 95124
US

08-00-0E (hex) NCR CORPORATION
08000E (base 16) NCR CORPORATION
WORLD HEADQUARTERS
DAYTON OH 45479
US

00-00-02 (hex) XEROX CORPORATION
000002 (base 16) XEROX CORPORATION
M/S 105-50C
WEBSTER NY 14580
US

00-00-03 (hex) XEROX CORPORATION
000003 (base 16) XEROX CORPORATION
M/S 105-50C
WEBSTER NY 14580
US

00-DD-09 (hex) UNGERMANN-BASS INC.
00DD09 (base 16) UNGERMANN-BASS INC.
3900 FREEDOM CIRCLE
SANTA CLARA CA 95054
US

00-00-06 (hex) XEROX CORPORATION
000006 (base 16) XEROX CORPORATION
M/S 105-50C
WEBSTER NY 14580
US

08-00-64 (hex) Sitasys AG
080064 (base 16) Sitasys AG
Freiburgstrasse 251

CH

08-00-02
(hex) BRIDGE COMMUNICATIONS INC.
080002 (base 16) BRIDGE COMMUNICATIONS INC.
2081 STIERLING ROAD
MOUNTAIN VIEW CA 94043
US

08-00-1A (hex) TIARA/ 10NET
08001A (base 16) TIARA/ 10NET

7777 WASHINGTON VILLAGE DRIVE
DAYTON OHIO 45459-3957
US

08-00-8B (hex) PYRAMID TECHNOLOGY CORP.
08008B (base 16) PYRAMID TECHNOLOGY CORP.
1295 CHARLESTON ROAD
MOUNTAIN VIEW CA 94043
US

08-00-12 (hex) BELL ATLANTIC INTEGRATED SYST.
080012 (base 16) BELL ATLANTIC INTEGRATED SYST.
40 TALL PINE DRIVE
SUDBURY MA 01776
US

08-00-01 (hex) COMPUTERVISION CORPORATION
080001 (base 16) COMPUTERVISION CORPORATION
14 CROSBY DRIVE MS 5-1
BEDFORD MA 01730
US

08-00-05 (hex) SYMBOLICS INC.
080005 (base 16) SYMBOLICS INC.
257 VASSAR STREET
CAMBRIDGE MA 02139
US

00-00-3D (hex) UNISYS
00003D (base 16) UNISYS
MS8-010
SAN JOSE CA 95150-6685
US

00-00-08 (hex) XEROX CORPORATION
000008
(base 16) XEROX CORPORATION
M/S 105-50C
WEBSTER NY 14580
US

00-DD-07 (hex) UNGERMANN-BASS INC.
00DD07 (base 16) UNGERMANN-BASS INC.
3900 FREEDOM CIRCLE
SANTA CLARA CA 95054
US

00-DD-0D (hex) UNGERMANN-BASS INC.

00DD0D (base 16) UNGERMANN-BASS INC.
3900 FREEDOM CIRCLE
SANTA CLARA CA 95054
US

94-3F-0C (hex) Genexis B.V.
943F0C (base 16) Genexis B.V.
Lodewijkstraat 1A
Eindhoven 5652AC
NL

08-00-16 (hex) BARRISTER INFO SYS CORP
080016 (base 16) BARRISTER INFO SYS CORP
ONE TECHNOLOGY CENTER
BUFFALO NY 14203
US

08-00-30 (hex) ROYAL MELBOURNE INST OF TECH
080030 (base 16) ROYAL MELBOURNE INST OF TECH
GPO BOX 2476V
MELBOURNE VIC 3001
AU

00-00-0B (hex) MATRIX CORPORATION
00000B (base 16) MATRIX CORPORATION
1203 NEW HOPE ROAD
RALEIGH NORTH CAROLINA 276
US

00-00-9B (hex) INFORMATION INTERNATIONAL, INC
00009B (base 16) INFORMATION
INTERNATIONAL, INC
5F., THE 7TH INDUSTRY BLDG.
JAPAN 150
JP

84-BB-26 (hex) Texas Instruments
84BB26 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

EC-9A-34 (hex) Texas Instruments
EC9A34 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

A4-F8-41 (hex) Apple, Inc.
A4F841 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A0-52-72 (hex) Apple, Inc.
A05272 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

34-B1-EB (hex) Apple, Inc.
34B1EB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

20-04-84 (hex) Apple, Inc.
200484 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

58-BA-D3 (hex) NANJING CASELA TECHNOLOGIES CORPORATION LIMITED
58BAD3 (base 16) NANJING CASELA TECHNOLOGIES CORPORATION LIMITED
9 Fl, Bldg. C, Optoelectric Science & Technology Park,
No. 6 Yuhe Road
Nanjing Jiangbei New Area 211800
CN

D0-A0-BB (hex) Shenzhen iComm Semiconductor CO.,LTD
D0A0BB (base 16) Shenzhen iComm Semiconductor CO.,LTD
Room 601,Block B ,Digital Building,Garden City
Shenzhen No.1079 Nanhai Road,Nanshan District 518067
CN

F8-7D-3F (hex) Huawei Device Co., Ltd.
F87D3F (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

90-A5-7D (hex) Huawei Device Co., Ltd.
90A57D (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

FC-A8-E0 (hex) THE FURUKAWA ELECTRIC CO., LTD
FCA8E0 (base 16) THE FURUKAWA ELECTRIC CO., LTD
2-6-4,Otemachi
Chiyoda-ku Tokyo 100-8322
JP

FC-51-B5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
FC51B5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

8C-9B-2D
(hex) PLANTRONICS, INC.
8C9B2D (base 16) PLANTRONICS, INC.
345 ENCINAL STREET
SANTA CRUZ CA 95060
US

90-9E-24 (hex) ekey biometric systems gmbh
909E24 (base 16) ekey biometric systems gmbh
Lunzerstrsasse 89
Linz Upper Austria 4020
AT

40-C0-EE (hex) 365mesh Pty Ltd
40C0EE (base 16) 365mesh Pty Ltd
502/32 Delhi Road
North Ryde NSW 2113
AU

28-44-30 (hex) Arcade Communications Ltd.
284430 (base 16) Arcade Communications Ltd.
1120 Elliott Court Herald Avenue
Coventry CV5 6UB
GB

98-03-CF (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
9803CF (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268? Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

94-32-51 (hex) ASKEY COMPUTER CORP
943251 (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585

TW

78-ED-BC (hex) OnePlus Technology (Shenzhen)
Co., Ltd
78EDBC (base 16) OnePlus Technology (Shenzhen) Co., Ltd
18C02, 18C03, 18C04 ,18C05,TAIRAN BUILDING,
Shenzhen Guangdong 518000
CN

DC-E5-D8 (hex) zte corporation
DCE5D8 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

68-94-4A (hex) zte corporation
68944A (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

74-33-E9 (hex) zte corporation
7433E9 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

60-49-66 (hex) Shenzhen Dingsheng Technology Co., Ltd.
604966 (base 16) Shenzhen Dingsheng Technology Co., Ltd.
No. 97 Huaxing Road, Langkou community, Dalang Street, Longhua District Level 4, Building 5, Kaijida Industrial Zone
Shenzhen Guangdong 518000
CN

C8-A3-E8 (hex) CLOUD NETWORK TECHNOLOGY
SINGAPORE PTE. LTD.
C8A3E8 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

40-B7-0E (hex) Huawei Device Co., Ltd.
40B70E (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

60-6B-5B (hex) Arista Network, Inc.

606B5B (base 16) Arista Network, Inc.
5453 Great America Parkway
Santa Clara CA 95054
US

FC-C0-CC (hex) Yunke China Information Technology Limited
FCC0CC (base 16) Yunke China Information Technology Limited
Digital Technology Plaza,NO.9 Shangdi 9th Street,Haidian District,Beijing,China
Beijing 100080
CN

48-EB-65 (hex) Henan KunLun Technologies CO.,Ltd.
48EB65 (base 16) Henan KunLun Technologies CO.,Ltd.
10th Floor, Chuangzhi Tiandi Building,North Shigeng Street, Zhongdao East RoadLongzihu Wisdom IslandZhengdong New District
Zhengzhou Henan 450046
CN

1C-21-56 (hex) Smappee NV
1C2156 (base 16) Smappee NV
Evolis 104
Harelbeke 8530
BE

A8-41-F4 (hex) AzureWave Technology Inc.
A841F4 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

C4-CB-76 (hex) Microsoft Corporation
C4CB76 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

D8-D6-68 (hex) Tuya Smart Inc.
D8D668 (base 16) Tuya Smart Inc.
160 Greentree Drive, Suite 101
Dover DE 19904
US

00-4C-E5 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
004CE5 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

C0-91-20 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
C09120 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain
Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

40-72-18 (hex) Tonly Technology Co. Ltd
407218 (base 16) Tonly Technology Co. Ltd
Section 37, Zhongkai Hi-Tech Development Zone
Huizhou Guangdong 516006
CN

40-9E-A4 (hex) Juniper Networks
409EA4 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

4C-50-DD (hex) Hui Zhou Gaoshengda Technology Co.,LTD
4C50DD (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.2,Jin-da Road,Huinan Industrial Park
Hui Zhou Guangdong 516025
CN

9C-B4-00 (hex) zte corporation
9CB400 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

88-60-76 (hex) Sparnex n.v.
886076 (base 16) Sparnex n.v.
Kielsevest 35
Antwerpen Antwerpen 2018
BE

0C-D5-D3 (hex) Cisco Systems, Inc
0CD5D3 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose
CA 94568
US

BC-4C-78 (hex) HUAWEI TECHNOLOGIES CO.,LTD
BC4C78 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

D4-5F-7A (hex) HUAWEI TECHNOLOGIES CO.,LTD
D45F7A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-05-56 (hex) vivo Mobile Communication Co., Ltd.
A80556 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

F0-07-27 (hex) INTEREL BUILDING AUTOMATION
F00727 (base 16) INTEREL BUILDING AUTOMATION
1508 TIFFANY TOWER CLUSTER W
JLT DUBAI 124021
AE

B0-52-46 (hex) NXP Semiconductor (Tianjin) LTD.
B05246 (base 16) NXP Semiconductor (Tianjin) LTD.
No.15 Xinghua Avenue, Xiqing Economic Development Area
Tianjin 300385
CN

F8-71-A6 (hex) Apple, Inc.
F871A6 (base 16) Apple, Inc.
1
Infinite Loop
Cupertino CA 95014
US

78-A7-C7 (hex) Apple, Inc.
78A7C7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

98-FE-E1 (hex) Apple, Inc.
98FEE1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

34-09-62 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
340962 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road

Hangzhou Zhejiang 310052
CN

D0-C0-50 (hex) Apple, Inc.
D0C050 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

84-94-37 (hex) Apple, Inc.
849437 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

2C-81-BF (hex) Apple, Inc.
2C81BF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

28-34-FF (hex) Apple, Inc.
2834FF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

10-06-48 (hex) IEEE Registration Authority
100648
(base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

00-0D-2C (hex) Lantronix
000D2C (base 16) Lantronix
Kulite House Stroudley Road
Basingstoke Hampshire RG24 8UG
GB

14-AE-68 (hex) KLG Smartec
14AE68 (base 16) KLG Smartec
Arbachtalstrasse 6, 72800
Eningen 72800
DE

44-E4-E6 (hex) Extreme Networks Headquarters
44E4E6 (base 16) Extreme Networks Headquarters

2121 RDU Center Drive
Morrisville NC 27560
US

EC-46-2C (hex) Infinix mobility limited
EC462C (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

30-16-9D (hex) MERCUSYS TECHNOLOGIES CO., LTD.
30169D (base 16) MERCUSYS TECHNOLOGIES CO., LTD.
3F,Zone B,Building R1,High-Tech Industrial Village,No.023 High-Tech South 4 Road,Nanshan,Shenzhen
Shenzhen Guangdong 518057
CN

C8-75-F4
(hex) China Mobile Group Device Co.,Ltd.
C875F4 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

2C-53-2B (hex) TCT mobile ltd
2C532B (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

64-FD-29 (hex) Zhejiang Dahua Technology Co., Ltd.
64FD29 (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
?? ?? 310053
CN

74-2E-4F (hex) Stienen Group
742E4F (base 16) Stienen Group
Mangaanstraat 9
Nederweert 6031RT
NL

5C-83-6C (hex) Ruckus Wireless
5C836C (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

70-4C-A5 (hex) Fortinet, Inc.
704CA5 (base 16) Fortinet, Inc.
899 Kifer Road
Sunnyvale 94086
US

04-D5-90 (hex) Fortinet, Inc.
04D590 (base 16) Fortinet, Inc.
899 Kifer Road
Sunnyvale 94086
US

94-F3-92
(hex) Fortinet, Inc.
94F392 (base 16) Fortinet, Inc.
899 Kifer Road
Sunnyvale 94086
US

4C-4C-D8 (hex) zte corporation
4C4CD8 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

5C-53-10 (hex) Nanjing Qinheng Microelectronics Co., Ltd.
5C5310 (base 16) Nanjing Qinheng Microelectronics Co., Ltd.
No.18, Ningshuang Road
Nanjing Jiangsu 210012
CN

8C-88-81 (hex) Cisco Meraki
8C8881 (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco 94158
US

34-D2-62 (hex) SZ DJI TECHNOLOGY CO.,LTD
34D262 (base 16) SZ DJI TECHNOLOGY CO.,LTD
DJI Sky City, No55 Xianyuan Road, Nanshan District
Shenzhen Guangdong 518057
CN

D8-B0-20 (hex) Taicang T&W Electronics
D8B020 (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

D4-F3-2D (hex) Intel Corporate
D4F32D (base
16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

2C-7B-A0 (hex) Intel Corporate
2C7BA0 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

54-22-E0 (hex) Adtran Inc
5422E0 (base 16) Adtran Inc
901 Explorer Blvd.
Huntsville AL 35806-2807
US

C4-07-78 (hex) New H3C Technologies Co., Ltd
C40778 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

FC-8A-F7 (hex) zte corporation
FC8AF7 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

10-04-C1 (hex) JD Cloud Computing Co., Ltd.
1004C1 (base 16) JD Cloud Computing Co., Ltd.
Building 2-A, JD Headquarters, Kechuang 11th Street, Yizhuang Economic Development Zone, Daxing District
Beijing 100176
CN

24-D2-08 (hex) Sensata Technologies Inc.
24D208 (base 16) Sensata
Technologies Inc.
529 Pleasant Street
Attleboro MA 02703
US

78-91-E9 (hex) Raisecom Technology CO., LTD
7891E9 (base 16) Raisecom Technology CO., LTD
No. 11, East Area, No. 10 Block, East Xibeiwang Road

Beijing 100094
CN

E8-55-40 (hex) WUXI FUNIDE DIGITAL CO.,LTD
E85540 (base 16) WUXI FUNIDE DIGITAL CO.,LTD
No.55 Youshen Road, Yunlin Street, Xishan District
WUXI JIANGSU 214101
CN

54-D6-0D (hex) Hangzhou Ezviz Software Co.,Ltd.
54D60D (base 16) Hangzhou Ezviz Software Co.,Ltd.
Room 302, Unit B, Building 2, 399 Danfeng Road,Binjiang District
Hangzhou Zhejiang 310051
CN

58-96-71 (hex) Wistron Neweb Corporation
589671 (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

C4-50-9C (hex) Vantiva - Connected Home
C4509C (base 16) Vantiva - Connected Home
4855 Peachtree Industrial Blvd, #200
Norcross GA 30092
US

30-8E-CF
(hex) HUAWEI TECHNOLOGIES CO.,LTD
308ECF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D8-29-F8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D829F8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

78-39-2D (hex) IEEE Registration Authority
78392D (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

8C-1A-50 (hex) China Mobile Group Device Co.,Ltd.
8C1A50 (base 16) China Mobile Group Device Co.,Ltd.

32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

A8-5C-03 (hex) Jiang Su Fulian Communication Technology Co., Ltd
A85C03 (base 16) Jiang Su Fulian Communication Technology Co., Ltd
Yongan Community, the south of Lanling RoadDanyang Development District
Zhen Jiang Jiang Su 212300
CN

D4-00-68 (hex) Fiberhome Telecommunication
Technologies Co.,LTD
D40068 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

38-63-7F (hex) Fiberhome Telecommunication Technologies Co.,LTD
38637F (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

C8-FE-0F (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
C8FE0F (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268? Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

70-F6-CF (hex) Relay, Inc.
70F6CF (base 16) Relay, Inc.
4200 Six Forks RdSuite 1800
Raleigh NC 27609
US

38-76-05 (hex) Inogeni
387605 (base 16) Inogeni
1045 wilfrid pelletier
quebec QUEBEC g1w 0c6
CA

24-9D-2A (hex) LinkData Technology (Tianjin) Co., LTD
249D2A (base 16) LinkData Technology (Tianjin) Co., LTD

E4-E6-6C (hex) Tiandy Technologies

Co.,LTD
E4E66C (base 16) Tiandy Technologies Co.,LTD
NO.8,haitai huake rd2 (outside ring road),huayuan new technology industrial park
Tianjin Tianjin 300384
CN

84-3E-03 (hex) Sagemcom Broadband SAS
843E03 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

54-9A-8F (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
549A8F (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

A8-EF-5F (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
A8EF5F (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

BC-E0-01 (hex) Netis Technology Co., Ltd.
BCE001 (base 16) Netis Technology Co., Ltd.
8 Floor, Bd B, information port, Langshan RD,
Nanshan district,
Shenzhen Guangdong 518057
CN

D0-3E-07 (hex) Apple, Inc.
D03E07 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

50-B1-27 (hex) Apple, Inc.
50B127 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C8-10-72 (hex) BBPOS Limited
C81072 (base 16) BBPOS Limited
15/F., Tower 2, Nina Tower, 8 Yeung Uk Road, Tsuen Wan, NT
Hong Kong 00000
HK

0C-A1-38 (hex) BLiNQ Networks Inc.
0CA138 (base 16) BLiNQ Networks Inc.
200-140 Renfrew Drive
Markham Ontario L3R 6B3
CA

E4-F3-F5 (hex) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
E4F3F5 (base 16) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
6th Floor, South Section, Building 23, Keyuan West, NO.1 Kezhi West Road, Science and Technology Community, Yuehai Street, Nanshan District
Shenzhen Guangdong 518057
CN

C0-A5-DD (hex) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
C0A5DD
(base 16) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
6th Floor, South Section, Building 23, Keyuan West, NO.1 Kezhi West Road, Science and Technology Community, Yuehai Street, Nanshan District
Shenzhen Guangdong 518057
CN

F8-FB-90 (hex) Texas Instruments
F8FB90 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

44-6B-1F (hex) Texas Instruments
446B1F (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

F0-10-A5 (hex) Texas Instruments
F010A5 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

C0-25-2F (hex) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
C0252F (base 16) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
6th Floor, South Section, Building 23, Keyuan West, NO.1 Kezhi West Road, Science and Technology Community, Yuehai Street, Nanshan District
Shenzhen Guangdong 518057
CN

D8-EE-42 (hex) Sichuan Tianyi Comheart

Telecom Co.,LTD
D8EE42 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

28-AF-42 (hex) Samsung Electronics Co.,Ltd
28AF42 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

1C-CE-51 (hex) AzureWave Technology Inc.
1CCE51 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

68-33-EE (hex) ARRIS Group, Inc.
6833EE (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

C0-63-80 (hex) Texas Instruments
C06380 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

10-63-4B (hex) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
10634B (base 16) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
6th Floor, South Section, Building 23, Keyuan West, NO.1 Kezhi West
Road, Science and Technology Community, Yuehai Street, Nanshan District
Shenzhen Guangdong 518057
CN

04-4B-A5 (hex) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
044BA5 (base 16) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
6th Floor, South Section, Building 23, Keyuan West, NO.1 Kezhi West Road, Science and Technology Community, Yuehai Street, Nanshan District
Shenzhen Guangdong 518057
CN

D4-84-09 (hex) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
D48409 (base 16) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
6th Floor, South Section, Building 23, Keyuan West, NO.1 Kezhi West Road, Science and Technology Community, Yuehai Street, Nanshan District

Shenzhen Guangdong 518057
CN

BC-02-6E (hex) Silicon Laboratories
BC026E (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

B4-35-22 (hex) Silicon Laboratories
B43522 (base 16) Silicon Laboratories
400
West Cesar Chavez
Austin TX 78701
US

90-39-5E (hex) Silicon Laboratories
90395E (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

E8-E0-7E (hex) Silicon Laboratories
E8E07E (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

B0-C7-DE (hex) Silicon Laboratories
B0C7DE (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

88-1A-14 (hex) Silicon Laboratories
881A14 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

44-E2-F8 (hex) Silicon Laboratories
44E2F8 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

E4-12-26 (hex) Continental Automotive Romania SLR
E41226 (base 16) Continental Automotive Romania SLR

Str Siemens no.1, 300701 Timisoara, Romania
Timisoara 300701
RO

30-FB-68 (hex) Wuhan Zmvision Technology Co. Ltd.
30FB68
(base 16) Wuhan Zmvision Technology Co. Ltd.
15th Floor,Bainaohui Office,NO.10,Luo Yu Road,Wuchang District
Wuhan 430000
CN

F4-ED-37 (hex) Qingdao Yuze lntelligent Technology Co.,Ltd
F4ED37 (base 16) Qingdao Yuze lntelligent Technology Co.,Ltd
Room 5410-448, Building1, No. 31 Longcheng Road, Shibei District, Qingdao
Qingdao 266000
CN

B8-DB-38 (hex) Google, Inc.
B8DB38 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

54-64-BC (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
5464BC (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

24-68-30 (hex) Shenzhen Shokzhear Co., Ltd
246830 (base 16) Shenzhen Shokzhear Co., Ltd
Floors 5, Factory Building 28, Shancheng Industrial Park, Shixin Community, Langxin Community, Shiyan Street, Bao'an District, Shenzhen, Guangdong, China.
Shenzhen Guangdong 518108
CN

3C-90-E0
(hex) HUAWEI TECHNOLOGIES CO.,LTD
3C90E0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

70-73-62 (hex) HUAWEI TECHNOLOGIES CO.,LTD
707362 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

30-A3-0F (hex) HUAWEI TECHNOLOGIES CO.,LTD
30A30F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

30-8D-D4 (hex) HUAWEI TECHNOLOGIES CO.,LTD
308DD4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

74-C6-4A (hex) AGOS Co.,Ltd
74C64A (base 16) AGOS Co.,Ltd
#1406, 145, Gasandigital 1-ro, Geumcheon-gu
Seoul 08506
KR

24-58-7C (hex) Espressif Inc.
24587C (base 16) Espressif Inc.
Room 204, Building
2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

CC-8D-A2 (hex) Espressif Inc.
CC8DA2 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

EC-31-4A (hex) Chengdu Quanjing Intelligent Technology Co.,Ltd
EC314A (base 16) Chengdu Quanjing Intelligent Technology Co.,Ltd
Building A2, Chi Yuen Technology Park, 1001 College Avenue, Nanshan District, Shenzhen,P.R.C.
Shenzhen Guangdong 518000
CN

E4-61-F4 (hex) shenzhen worldelite electronics co., LTD
E461F4 (base 16) shenzhen worldelite electronics co., LTD
Office 5 F, Xiang Yu Industrial Park, Longsheng Road, Longgang Dist
Shenzhen Guangdong 51800
CN

10-9F-47 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
109F47 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057

CN

E4-37-9F (hex) Cisco Systems, Inc
E4379F
(base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F8-20-D2 (hex) ARRIS Group, Inc.
F820D2 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-26-A4 (hex) Novus Produtos Eletronicos Ltda
0026A4 (base 16) Novus Produtos Eletronicos Ltda
Rua Engenheiro Homero Carlos Simon, 737
Canoas RS 92442-000
BR

04-F4-D8 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
04F4D8 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.2,Jin-da Road,Huinan Industrial Park
Hui Zhou Guangdong 516025
CN

3C-B4-3D (hex) SZ Tenveo video technology co., Ltd
3CB43D (base 16) SZ Tenveo video technology co., Ltd
8th Floor Fukang technology Buildinglonghua district
shenzhen guangdong 518000
CN

14-C6-7D (hex) Vizio, Inc
14C67D (base 16) Vizio, Inc
39 Tesla
Irvine CA 92618
US

D4-AD-FC (hex) Shenzhen Intellirocks Tech. Co. Ltd.
D4ADFC (base 16) Shenzhen
Intellirocks Tech. Co. Ltd.
No. 3301, Block C, Section 1, Chuangzhi Yuncheng Building, Liuxian Avenue,Xili Community, Xili Street, Nanshan District
Shenzhen Guangdong 518000
CN

E8-27-25 (hex) Axis Communications AB

E82725 (base 16) Axis Communications AB
Gränden 1
Lund 22369
SE

9C-C8-E9 (hex) Amazon Technologies Inc.
9CC8E9 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

60-6B-B3 (hex) zte corporation
606BB3 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

A0-DD-6C (hex) Espressif Inc.
A0DD6C (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

54-78-85 (hex) SHENZHEN GIEC DIGITAL CO.,LTD
547885 (base 16) SHENZHEN GIEC DIGITAL CO.,LTD
1st&3rd Building,No.26 Puzai Road, Pingdi, Longgang
SHENZHEN Guanggong 518117
CN

00-0E-2A
(hex) dormakaba USA Inc.
000E2A (base 16) dormakaba USA Inc.
Dorma Drive, Box AC
Reamstown PA 17567
US

74-30-9D (hex) Infinix mobility limited
74309D (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

64-F0-AD (hex) Zhejiang Tmall Technology Co., Ltd.
64F0AD (base 16) Zhejiang Tmall Technology Co., Ltd.
No.969 Wenyi West Road, Wuchang Street, Yuhang District
Hangzhou Zhejiang 310024
CN

54-A7-A0 (hex) HUNAN AIMAG INTELLIGENT TECHNOLOGY CO.,LTD
54A7A0 (base 16) HUNAN AIMAG INTELLIGENT TECHNOLOGY CO.,LTD
room 210 Building 3 Yungu Phase 2 Nanshan
Shenzhen 18000
CN

D0-EF-76 (hex) Espressif Inc.
D0EF76 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

C4-D8-D5 (hex) Espressif Inc.
C4D8D5 (base 16) Espressif
Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

E8-F0-85 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E8F085 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

3C-36-6A (hex) HUAWEI TECHNOLOGIES CO.,LTD
3C366A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

EC-5A-A3 (hex) Huawei Device Co., Ltd.
EC5AA3 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E4-FA-C4 (hex) TP-LINK CORPORATION PTE. LTD.
E4FAC4 (base 16) TP-LINK CORPORATION PTE. LTD.
7 Temasek Boulevard #29-03 Suntec Tower One
Singapore 038987
SG

40-AE-30 (hex) TP-LINK CORPORATION PTE. LTD.
40AE30 (base 16) TP-LINK CORPORATION PTE. LTD.
7 Temasek Boulevard #29-03 Suntec Tower One
Singapore 038987

SG

2C-66-AD
(hex) NimbleTech Digital Inc.
2C66AD (base 16) NimbleTech Digital Inc.
13 F.-9, No. 738, Zhongzheng Rd., Zhonghe Dist., New Taipei City 235603, Taiwan (R.O.C.)
New Taipei City 235603
TW

44-E6-4A (hex) Shenzhen iComm Semiconductor CO.,LTD
44E64A (base 16) Shenzhen iComm Semiconductor CO.,LTD
Room 601,Block B ,Digital Building,Garden City
Shenzhen No.1079 Nanhai Road,Nanshan District 518067
CN

70-13-01 (hex) Vantiva - Connected Home
701301 (base 16) Vantiva - Connected Home
4855 Peachtree Industrial Blvd, Suite 200
Norcross GA 30902
US

D0-4F-AB (hex) Yoqu Technology (Shenzhen) Co., Ltd.
D04FAB (base 16) Yoqu Technology (Shenzhen) Co., Ltd.
No. 525, Block C, New Generation Information Technology Industrial Park, Chuangye 2nd Road, Bao'an District,
Shenzhen Guangdong 518000
CN

00-25-FC (hex) ENDA
0025FC (base 16) ENDA
Y. Dudullu Barbaros C. Kutup S. No. 20
Istanbul
34775
TR

98-87-6C (hex) Huawei Device Co., Ltd.
98876C (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

0C-83-06 (hex) Huawei Device Co., Ltd.
0C8306 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

EC-CD-4C (hex) New H3C Technologies Co., Ltd
ECCD4C (base 16) New H3C Technologies Co., Ltd

466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

F0-ED-19 (hex) zte corporation
F0ED19 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

04-6E-CB (hex) zte corporation
046ECB (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

20-5D-0D (hex) Fiberhome Telecommunication Technologies Co.,LTD
205D0D (base 16) Fiberhome Telecommunication
Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

E0-B7-63 (hex) Bosch Automotive Products (Suzhou) Co., Ltd. Changzhou Branch
E0B763 (base 16) Bosch Automotive Products (Suzhou) Co., Ltd. Changzhou Branch
No 17 Longmen Road, Hi-Tech development zone Wujin district
Chang zhou Jiang Su 213164
CN

E8-14-99 (hex) Yoqu Technology(Shenzhen)Co.,Ltd.
E81499 (base 16) Yoqu Technology(Shenzhen)Co.,Ltd.
No. 525, Block C, New Generation Information Technology Industrial Park, Chuangye 2nd Road, Bao'an District, Shenzhen, China
shenzhen Guangdong 518000
CN

10-2F-F8 (hex) Vicoretek (Nanjing) Co.,Ltd.
102FF8 (base 16) Vicoretek (Nanjing) Co.,Ltd.
Unit L10-1,1F, podium building, Jindi Weixin Yuhua lnnovation Center, No. 23 Andemen Street, Yuhuatai District, Nanjing
Nanjing Jiangsu 210000
CN

68-4D-B6 (hex) Xiaomi Communications Co Ltd
684DB6 (base 16) Xiaomi Communications Co Ltd
#019,
9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085

CN

F0-E7-52 (hex) Shenzhen Huajuxin Semiconductor Co.,ltd
F0E752 (base 16) Shenzhen Huajuxin Semiconductor Co.,ltd
Baoan street
Shenzhen Guangdong 518000
CN

60-34-57 (hex) HP Tuners LLC
603457 (base 16) HP Tuners LLC
700 Eastwood Ln
Buffalo Grove IL 60089
US

C8-CD-55 (hex) Ruijie Networks Co.,LTD
C8CD55 (base 16) Ruijie Networks Co.,LTD
Building 19,Juyuanzhou Industrial Park, No.618 Jinshan Avenue, Cangshan District
Fuzhou 35000
CN

C4-B2-5B (hex) Ruijie Networks Co.,LTD
C4B25B (base 16) Ruijie Networks Co.,LTD
Building 19,Juyuanzhou Industrial Park, No.618 Jinshan Avenue, Cangshan District
Fuzhou 35000
CN

98-4A-6B (hex) Ruijie Networks Co.,LTD
984A6B (base 16) Ruijie Networks Co.,LTD
Building 19,Juyuanzhou Industrial Park, No.618 Jinshan Avenue, Cangshan District
Fuzhou 35000
CN

78-66-F3
(hex) shenzhen worldelite electronics co., LTD
7866F3 (base 16) shenzhen worldelite electronics co., LTD
Office 5 F, Xiang Yu Industrial Park, Longsheng Road, Longgang Dist
Shenzhen Guangdong 51800
CN

28-22-1E (hex) HUAWEI TECHNOLOGIES CO.,LTD
28221E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

24-EF-B4 (hex) Shanghai Neardi Technologies Co. Ltd.
24EFB4 (base 16) Shanghai Neardi Technologies Co. Ltd.
807, Bldg 1, Lane 1505, Lianhang Rd

Minhang District Shanghai 201112
CN

C0-6F-98 (hex) eero inc.
C06F98 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

D8-A0-E6 (hex) Chongqing Yipingfang Technology Co., Ltd.
D8A0E6 (base 16) Chongqing Yipingfang Technology Co., Ltd.
No. 1-10, Tieshan Road, Biquan Street, Bishan District, Chongqing
ChongQing 402760
CN

0C-0A-DF (hex) Texas Instruments
0C0ADF
(base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

DC-BE-04 (hex) Texas Instruments
DCBE04 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

64-BA-A4 (hex) zte corporation
64BAA4 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

C4-57-CD (hex) HUAWEI TECHNOLOGIES CO.,LTD
C457CD (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

08-DD-EB (hex) Silicon Laboratories
08DDEB (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

38-24-F1 (hex) Private
3824F1 (base 16) Private

BC-BB-58 (hex) Apple, Inc.
BCBB58 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

30-3B-7C (hex) Apple, Inc.
303B7C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-81-2A
(hex) Apple, Inc.
00812A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

1C-E2-09 (hex) Apple, Inc.
1CE209 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

6C-C4-1E (hex) NEXSEC Incorporated
6CC41E (base 16) NEXSEC Incorporated
Room 201, Floor 2, Unit 2, Building 15, No.3 Gaolizhang Road, Haidian District
Beijing 100094
CN

CC-6A-33 (hex) Cisco Systems, Inc
CC6A33 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

40-D1-60 (hex) Apple, Inc.
40D160 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

90-03-71 (hex) Quectel Wireless Solutions Co.,Ltd.
900371 (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233

CN

94-9F-8B (hex) zte corporation
949F8B (base 16) zte corporation
12/F.,zte R&D building ,kejinan
Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

18-EF-C0 (hex) Sercomm Japan Corporation
18EFC0 (base 16) Sercomm Japan Corporation
8F, 3-1, YuanQu St., NanKang, Taipei 115, Taiwan
Taipei 115
TW

80-28-3C (hex) Sonova AG
80283C (base 16) Sonova AG
Laubisruetistrasse 28
Staefa 8712
CH

80-AE-54 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
80AE54 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

F4-6E-D6 (hex) EM Microelectronic
F46ED6 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

94-8C-D7 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
948CD7 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.2,Jin-da Road,Huinan Industrial Park
Hui Zhou Guangdong 516025
CN

48-E9-CA (hex) creoline GmbH
48E9CA (base 16) creoline
GmbH
Bergstr. 9A
Altenberge North Rhine-Westphalia 48341
DE

3C-08-68 (hex) Power Plus Communications AG
3C0868 (base 16) Power Plus Communications AG

Dudenstrasse 6
Mannheim 68167
DE

90-15-64 (hex) IEEE Registration Authority
901564 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

40-8F-9A (hex) KanEL Sweden AB
408F9A (base 16) KanEL Sweden AB
Peter Myndes backe 16
Stockholm 11846
SE

00-1C-A1 (hex) Akamai Technologies Inc.
001CA1 (base 16) Akamai Technologies Inc.
145 Broadway
Cambridge MA 02142
US

C4-C6-E6 (hex) LCFC(HeFei) Electronics Technology co., ltd
C4C6E6 (base 16) LCFC(HeFei) Electronics Technology co., ltd
No.3188-1,YunGu Road(Comprehensive Bonded Zone),Hefei Economic and Technological Development Area
HEFEI 230601
CN

20-50-0F (hex) Fiber Groep B.V.
20500F (base 16) Fiber Groep B.V.
Transistorstraat
7
Almere Flevoland 1322CJ
NL

D4-7F-35 (hex) Cisco Systems, Inc
D47F35 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

50-79-73 (hex) Inagile Electronic Technology Co.,LTD.
507973 (base 16) Inagile Electronic Technology Co.,LTD.
Building 9,no.1 guanpu road suzhou City Jiangsu Province,P.R.China
Suzhou 215000
CN

5C-35-48 (hex) Aditya Infotech Ltd.

5C3548 (base 16) Aditya Infotech Ltd.
Khemka Square, A-12, Sector-4,
Noida Uttar Pradesh 201301
IN

C8-5C-E2 (hex) IEEE Registration Authority
C85CE2 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

DC-EE-14 (hex) ADT Technology
DCEE14 (base 16) ADT Technology
Room 325, 3rd Floor, Building F, Xinmao Science and Technology Park, Huayuan Industrial Zone
Tianjin Tianjin 300384
CN

E8-4A-54 (hex) Beijing Xiaomi Mobile Software Co., Ltd
E84A54 (base 16) Beijing Xiaomi Mobile
Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

78-7D-53 (hex) Extreme Networks Headquarters
787D53 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

20-9E-F7 (hex) Extreme Networks Headquarters
209EF7 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

D8-84-66 (hex) Extreme Networks Headquarters
D88466 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

00-04-96 (hex) Extreme Networks Headquarters
000496 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

00-E0-2B (hex) Extreme Networks Headquarters
00E02B (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

58-58-CD (hex) Extreme Networks Headquarters
5858CD
(base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

DC-DC-C3 (hex) Extreme Networks Headquarters
DCDCC3 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

C8-BE-35 (hex) Extreme Networks Headquarters
C8BE35 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

10-FF-E0 (hex) GIGA-BYTE TECHNOLOGY CO.,LTD.
10FFE0 (base 16) GIGA-BYTE TECHNOLOGY CO.,LTD.
Pin-Jen City, Taoyuan, Taiwan, R.O.C.
Pin-Jen Taoyuan 324
TW

F0-64-26 (hex) Extreme Networks Headquarters
F06426 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

7C-95-B1 (hex) Extreme Networks Headquarters
7C95B1 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

18-49-F8 (hex) Extreme Networks Headquarters
1849F8 (base
16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560

US

80-95-62 (hex) Extreme Networks Headquarters
809562 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

58-59-C2 (hex) Extreme Networks Headquarters
5859C2 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

4C-23-1A (hex) Extreme Networks Headquarters
4C231A (base 16) Extreme Networks Headquarters
6480 Via Del Oro
San Jose CA 95119
US

2C-AB-46 (hex) Ruckus Wireless
2CAB46 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

74-24-9F (hex) TIBRO Corp.
74249F (base 16) TIBRO Corp.
251 Little Falls Drive
Wilmington DE 19808
US

A0-D8-6F (hex) ARGO AI, LLC
A0D86F (base 16) ARGO AI, LLC
40, 24th Street, Second Floor
Pittsburgh PA 15222
US

84-31-A8 (hex) Wuhan Funshion Online
Technologies Co.,Ltd
8431A8 (base 16) Wuhan Funshion Online Technologies Co.,Ltd
5th Floor,Financial Port Building A9,No.77 Optical Valley Avenue, East Lake High-Tech Development Zone, Wuhan
Wuhan CN/Hubei 430000
CN

C0-5D-39 (hex) Jiangsu Huitong Group Co.,Ltd.
C05D39 (base 16) Jiangsu Huitong Group Co.,Ltd.

No. 24, Block 2, Taohuawu New District
Zhenjiang Jiangsu 212003
CN

90-A1-BA (hex) PNetworks Electronics Information
90A1BA (base 16) PNetworks Electronics Information
SANAYI MAH. TEKNOPARK BUL. TEKNOPARK A1 BLOK NO: 1-1A IC KAPI NO: 207 PENDIK - ISTANBUL - TURKEY
Istanbul Pendik 34906
TR

00-0A-D7 (hex) Origin Co., Ltd.
000AD7 (base 16) Origin Co., Ltd.
3-3-27 Sakawa Sakura-ku
Saitama-shi Saitama 338-0823
JP

00-84-ED (hex) LEXMARK INTERNATIONAL, INC.
0084ED (base 16) LEXMARK INTERNATIONAL, INC.
740 W. New Circle Rd.
Lexington KY 40550
US

F8-C6-50 (hex) Cisco Systems,
Inc
F8C650 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

B4-D7-DB (hex) New H3C Technologies Co., Ltd
B4D7DB (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

30-50-CE (hex) Xiaomi Communications Co Ltd
3050CE (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

B4-05-A1 (hex) Xiaomi Communications Co Ltd
B405A1 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

5C-0E-8B (hex) Extreme Networks Headquarters
5C0E8B (base 16) Extreme Networks Headquarters
475 Half Day Road
Lincolnshire IL 60069
US

74-67-F7 (hex) Extreme Networks Headquarters
7467F7 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

F4-54-24
(hex) Extreme Networks Headquarters
F45424 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

F0-2B-7C (hex) Extreme Networks Headquarters
F02B7C (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

B4-56-5D (hex) Chipsea Technologies (Shenzhen) Corp.
B4565D (base 16) Chipsea Technologies (Shenzhen) Corp.
3 / F, Block A, Building 2, Shenzhen Bay Innovation Technology Center, No.3156 keyuan South Road, Yuehai Street, Nanshan District, Shenzhen
Shenzhen Guangdong 518000
CN

4C-E1-36 (hex) Private
4CE136 (base 16) Private

3C-10-60 (hex) Fiberhome Telecommunication Technologies Co.,LTD
3C1060 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

28-85-BB (hex) Zen Exim Pvt. Ltd.
2885BB (base 16) Zen Exim Pvt. Ltd.
2/4 Floor, Shakti 404,S.G.Highway,
Ahmedabad
Gujarat 380054
IN

B8-10-D4 (hex) Masimo Corporation
B810D4 (base 16) Masimo Corporation
52 Discovery
Irvine CA 92618
US

C8-9F-0C (hex) Motorola Mobility LLC, a Lenovo Company
C89F0C (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

64-85-05 (hex) zte corporation
648505 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

E4-60-4D (hex) zte corporation
E4604D (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

F4-E8-4F (hex) zte corporation
F4E84F (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

E8-22-B8 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
E822B8 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block
A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

74-4D-BD (hex) Espressif Inc.
744DBD (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

00-F9-52 (hex) HUAWEI TECHNOLOGIES CO.,LTD
00F952 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

48-35-43 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
483543 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

2C-15-D9 (hex) HUAWEI TECHNOLOGIES CO.,LTD
2C15D9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D4-A9-23 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D4A923 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C8-78-67
(hex) Mist Systems, Inc.
C87867 (base 16) Mist Systems, Inc.
1601 South De Anza Blvd, Suite 248
Cupertino CA 95014
US

DC-2D-04 (hex) vivo Mobile Communication Co., Ltd.
DC2D04 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

A4-3C-D7 (hex) NTX Electronics YangZhou co.,LTD
A43CD7 (base 16) NTX Electronics YangZhou co.,LTD
No.8,Wuzhou West Road,Economic and technological Development Zone,Yangzhou,Jiangsu Province,PRC,225009
Yangzhou Jiangsu 225009
CN

28-E6-A9 (hex) Samsung Electronics Co.,Ltd
28E6A9 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

4C-5F-70 (hex) Intel Corporate
4C5F70 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000

MY

00-02-63 (hex) RPS S.p.A.
000263 (base 16) RPS S.p.A.
Viale Europa 7
Legnago 37045
IT

58-07-F8
(hex) Nokia Solutions and Networks GmbH & Co. KG
5807F8 (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

DC-65-55 (hex) New H3C Intelligence Terminal Co., Ltd.
DC6555 (base 16) New H3C Intelligence Terminal Co., Ltd.
Room 406-100, 1 Yichuang Street, China-Singapore Guangzhou Knowledge City, Huangpu District, Guangzhou.
Guangzhou Guangdong 510030
CN

60-B9-C0 (hex) Cisco Systems, Inc
60B9C0 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

8C-94-61 (hex) Cisco Systems, Inc
8C9461 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A8-0B-FB (hex) Ruckus Wireless
A80BFB (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

3C-FA-30 (hex) Palo Alto Networks
3CFA30 (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

CC-EC-B7
(hex) ShenZhen Linked-Z Intelligent Display Co., Ltd
CCECB7 (base 16) ShenZhen Linked-Z Intelligent Display Co., Ltd

Block 128?Huafeng Zhigu-Hangcheng High-tech Industrial Park?Aviation Road?Sanwei Community,Hangcheng Street,Bao'an District
Shenzhen Guangdong 518128
CN

A8-B8-E0 (hex) Changwang Technology inc.
A8B8E0 (base 16) Changwang Technology inc.
No.37,Qinghutou,Renmin Road, Tangxia Town
Dongguan Guangdong 523710
CN

DC-DA-0C (hex) Espressif Inc.
DCDA0C (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

BC-0E-AB (hex) Samsung Electronics Co.,Ltd
BC0EAB (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

98-FB-27 (hex) Samsung Electronics Co.,Ltd
98FB27 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A8-43-A4 (hex) China Dragon Technology Limited
A843A4
(base 16) China Dragon Technology Limited
B4 Bldg.Haoshan 1st Industry Park,
Shenzhen Guangdong 518104
CN

D8-09-4E (hex) Active Brains
D8094E (base 16) Active Brains
Yokohama Mitsui Bldg.12F, 1-1-2 Takashima, Nishi-ku
Yokohama Kanagawa 220-0011
JP

54-33-C6 (hex) Mist Systems, Inc.
5433C6 (base 16) Mist Systems, Inc.
1601 South De Anza Blvd, Suite 248
Cupertino CA 95014
US

34-6F-71 (hex) TenaFe Inc.
346F71 (base 16) TenaFe Inc.
591 W Hamilton Ave #250
Campbell CA 95008
US

54-91-AF (hex) IEEE Registration Authority
5491AF (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

9C-39-28 (hex) Samsung Electronics Co.,Ltd
9C3928 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

6C-22-1A (hex) AltoBeam Inc.
6C221A (base 16) AltoBeam Inc.
B808, Tsinghua Tongfang Hi-Tech Plaza, Haidian
Beijing
Beijing 100083
CN

D8-43-AE (hex) Micro-Star INTL CO., LTD.
D843AE (base 16) Micro-Star INTL CO., LTD.
No.69, Lide St.,
New Taipei City Taiwan 235
TW

00-D0-7C (hex) JTEKT ELECTRONICS CORPORATION
00D07C (base 16) JTEKT ELECTRONICS CORPORATION
4-9-1 TENJIN-CHO,KODAIRA-SHI
TOKYO 187-0004
JP

14-CA-56 (hex) zte corporation
14CA56 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

48-D3-5D (hex) Private
48D35D (base 16) Private

88-6C-60 (hex) Xiaomi Communications Co Ltd
886C60 (base 16) Xiaomi Communications Co Ltd

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

CC-93-4A (hex) Sierra Wireless, ULC
CC934A (base 16) Sierra Wireless, ULC
1381 Wireless Way
Richmond BC CA V6V 3A4
GB

00-A0-D5 (hex) Sierra Wireless, ULC
00A0D5 (base 16) Sierra Wireless,
ULC
13811 Wireless Way
Richmond RICHMOND B.C. V6V 3A4
CA

28-A3-31 (hex) Sierra Wireless, ULC
28A331 (base 16) Sierra Wireless, ULC
13811 Wireless Way
Richmond BC V6V 3A4
CA

B0-18-86 (hex) SmarDTV Corporation
B01886 (base 16) SmarDTV Corporation
147 Avenue du Jujubier
ZI Athelia IV La Ciotat 13600
CH

C8-A6-EF (hex) Samsung Electronics Co.,Ltd
C8A6EF (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

E0-DF-13 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
E0DF13 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

5C-E9-31 (hex) TP-Link Corporation Limited
5CE931 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

A4-22-49 (hex) Sagemcom Broadband SAS

A42249 (base 16) Sagemcom
Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

68-79-09 (hex) Cisco Systems, Inc
687909 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E4-A4-1C (hex) Cisco Systems, Inc
E4A41C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

38-9C-B2 (hex) Apple, Inc.
389CB2 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

58-36-53 (hex) Apple, Inc.
583653 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

04-80-A7 (hex) ShenZhen TianGang Micro Technology CO.LTD
0480A7 (base 16) ShenZhen TianGang Micro Technology CO.LTD
3rd floor ,Building20,QingHu Industrial,QingHu community,LongHua DistrictShenZhen,China
ShenZhen GangDong 518100
CN

40-79-12 (hex) Texas Instruments
407912 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

58-A1-5F
(hex) Texas Instruments
58A15F (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

10-CA-BF (hex) Texas Instruments
10CABF (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

FC-94-E3 (hex) Vantiva USA LLC
FC94E3 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

8C-04-FF (hex) Vantiva USA LLC
8C04FF (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

5C-7D-7D (hex) Vantiva USA LLC
5C7D7D (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

08-A7-C0 (hex) Vantiva USA LLC
08A7C0 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

8C-6A-8D (hex) Vantiva USA LLC
8C6A8D (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

1C-9E-CC (hex) Vantiva USA LLC
1C9ECC
(base 16) Vantiva USA LLC
4855 Peachtree Industrial Blvd, Suite 20
Norcross GA 30902
US

CC-35-40 (hex) Vantiva USA LLC
CC3540 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044

US

B0-C2-87 (hex) Vantiva USA LLC
B0C287 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

FC-91-14 (hex) Vantiva USA LLC
FC9114 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

50-09-59 (hex) Vantiva USA LLC
500959 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

80-D0-4A (hex) Vantiva USA LLC
80D04A (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

3C-B7-4B (hex) Vantiva USA LLC
3CB74B (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

98-52-4A (hex) Vantiva USA
LLC
98524A (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

A0-FF-70 (hex) Vantiva USA LLC
A0FF70 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

84-D3-28 (hex) Apple, Inc.
84D328 (base 16) Apple, Inc.
1 Infinite Loop

Cupertino CA 95014
US

B4-0A-D8 (hex) Sony Interactive Entertainment Inc.
B40AD8 (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

38-17-E1 (hex) Vantiva USA LLC
3817E1 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

BC-9B-68 (hex) Vantiva USA LLC
BC9B68 (base 16) Vantiva USA LLC
5030 Sugarloaf Parkway Bldg 6
Lawrenceville GA 30044
US

54-5F-A7 (hex) Jibaiyou Technology Co.,Ltd.
545FA7 (base 16) Jibaiyou Technology Co.,Ltd.
No. 11, Guiya Road, Qingxiu District
Nanning Guangxi 530029
CN

08-BF-B8
(hex) ASUSTek COMPUTER INC.
08BFB8 (base 16) ASUSTek COMPUTER INC.
No.15,Lide Rd., Beitou, Dist.,Taipei 112,Taiwan
Taipei Taiwan 112
TW

50-40-74 (hex) Alarm.com
504074 (base 16) Alarm.com
8281 Greensboro Dr., Suite 100
Tysons VA 22102
US

5C-7B-5C (hex) Shenzhen SDMC Technology CO.,Ltd.
5C7B5C (base 16) Shenzhen SDMC Technology CO.,Ltd.
Room 1022, Floor 10, Building A, Customs Building, No. 2, Xin'an 3rd Road, Dalang Community, Xin'an Street, Bao'an District
Shenzhen GUANGDONG 518101
CN

BC-5C-17 (hex) Qingdao Intelligent&Precise Electronics Co.,Ltd.

BC5C17 (base 16) Qingdao Intelligent&Precise Electronics Co.,Ltd.
No.218 Qianwangang Road
Qingdao Shangdong 266510
CN

74-B8-0F (hex) Zipline International Inc.
74B80F (base 16) Zipline International Inc.
333 Corey Way
South San Francisco CA 94080
US

40-75-C3 (hex) Vantiva USA LLC
4075C3 (base 16) Vantiva
USA LLC
4855 Peachtree Industrial Blvd, Suite 20
Norcross GA 30902
US

10-A7-93 (hex) Vantiva USA LLC
10A793 (base 16) Vantiva USA LLC
4855 Peachtree Industrial Blvd, Suite 20
Norcross GA 30902
US

B8-A5-35 (hex) Vantiva USA LLC
B8A535 (base 16) Vantiva USA LLC
4855 Peachtree Industrial Blvd, Suite 20
Norcross GA 30902
US

CC-1A-A3 (hex) Arista Networks
CC1AA3 (base 16) Arista Networks
5453 Great America Parkway
Santa Clara CA 95054
US

8C-CB-14 (hex) TBS GmbH
8CCB14 (base 16) TBS GmbH
Finkenstr. 73
Kaiserslautern 67661
DE

3C-C0-3E (hex) HUAWEI TECHNOLOGIES CO.,LTD
3CC03E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

98-39-C0 (hex) FLEXTRONICS
9839C0 (base 16) FLEXTRONICS
Carretera Base Aerea 5850 int 4
Zapopan Jalisco 45136
MX

D4-31-27 (hex) Ruijie Networks Co.,LTD
D43127
(base 16) Ruijie Networks Co.,LTD
No. 2, 7th floor, xingwangruijie, haixi hi-tech industrial park, high-tech zone, fuzhou city
Fuzhou Fujian 350002
CN

EC-EF-17 (hex) Sunplus Technology Co., Ltd.
ECEF17 (base 16) Sunplus Technology Co., Ltd.
19, Innovation First Road, Hsinchu Science Park
Hsinchu 300
TW

00-30-44 (hex) CradlePoint, Inc
003044 (base 16) CradlePoint, Inc
1100 W. Idaho Street, Suite 800
Boise ID 83702-5389
US

00-E0-1C (hex) CradlePoint, Inc
00E01C (base 16) CradlePoint, Inc
1100 W. Idaho Street, Suite 800
Boise ID 83702-5389
US

70-D8-C2 (hex) Intel Corporate
70D8C2 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

44-59-25 (hex) Square Inc.
445925 (base 16) Square Inc.
1455 Market St.
San Francisco CA 94103
US

18-44-CF (hex) B+L Industrial Measurements GmbH
1844CF (base 16) B+L Industrial Measurements
GmbH
Hans-Bunte-Strasse 10
Heidelberg 69123

DE

4C-C6-4C (hex) Beijing Xiaomi Mobile Software Co., Ltd
4CC64C (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

90-E4-68 (hex) Guangzhou Shiyuan Electronic Technology Company Limited
90E468 (base 16) Guangzhou Shiyuan Electronic Technology Company Limited
No.6, 4th Yunpu Road, Yunpu industry District
Guangzhou Guangdong 510530
CN

58-D2-37 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
58D237 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

88-2F-64 (hex) BCOM Networks Limited
882F64 (base 16) BCOM Networks Limited
ROOM A1, 11/F WINNER BUILDING, 36 MAN YUE STREET, HUNG HOM
KOWLOON 999077
HK

E0-21-FE (hex) Richer Link Technologies CO.,LTD
E021FE
(base 16) Richer Link Technologies CO.,LTD
1001, Building 3, Chongwen Park, Nanshan ZhiYuan, Liuxian Avenue, Nanshan District, Shenzhen City, China.
ShenZhen Guangdong 518000
CN

C8-A3-62 (hex) ASIX Electronics Corporation
C8A362 (base 16) ASIX Electronics Corporation
4F, No. 8, Hsin Ann Road, Hsinchu Science Park
Hsinchu 30078
TW

20-BB-BC (hex) Hangzhou Ezviz Software Co.,Ltd.
20BBBC (base 16) Hangzhou Ezviz Software Co.,Ltd.
Room 302, Unit B, Building 2, 399 Danfeng Road,Binjiang District
Hangzhou Zhejiang 310051
CN

24-FD-FA (hex) Private
24FDFA (base 16) Private

64-B3-79 (hex) Jiangsu Viscore Technologies Co.,Ltd
64B379 (base 16) Jiangsu Viscore Technologies Co.,Ltd

BC-0F-F3 (hex) HP Inc.
BC0FF3 (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

BC-87-FA (hex) Bose Corporation
BC87FA (base 16) Bose Corporation
The Mountain
Framingham
MA 01701-9168
US

9C-2D-CD (hex) LCFC(HeFei) Electronics Technology co., ltd
9C2DCD (base 16) LCFC(HeFei) Electronics Technology co., ltd
No.3188-1,YunGu Road(Comprehensive Bonded Zone),Hefei Economic and Technological Development Area
HEFEI ANHUI 230601
CN

6C-24-08 (hex) LCFC(HeFei) Electronics Technology co., ltd
6C2408 (base 16) LCFC(HeFei) Electronics Technology co., ltd
No.3188-1,YunGu Road(Comprehensive Bonded Zone),Hefei Economic and Technological Development Area
HEFEI ANHUI 230601
CN

88-A4-C2 (hex) LCFC(HeFei) Electronics Technology co., ltd
88A4C2 (base 16) LCFC(HeFei) Electronics Technology co., ltd
No.3188-1,YunGu Road(Comprehensive Bonded Zone),Hefei Economic and Technological Development Area
HEFEI ANHUI 230601
CN

68-47-24 (hex) EM Microelectronic
684724 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

AC-3B-96 (hex) NXP Semiconductor (Tianjin)
LTD.
AC3B96 (base 16) NXP Semiconductor (Tianjin) LTD.
No.15 Xinghua Avenue, Xiqing Economic Development Area
Tianjin 300385

CN

0C-67-14 (hex) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
0C6714 (base 16) SERNET (SUZHOU) TECHNOLOGIES CORPORATION
NO.8 Tangzhuang Road,Suzhou Industrial Park,Su ZhouCity,JiangSu Province,China
Suzhou 215021
CN

CC-57-63 (hex) Panasonic Automotive Systems Co.,Ltd
CC5763 (base 16) Panasonic Automotive Systems Co.,Ltd
5652
Matsumoto City Nagano 399-8730
JP

90-D0-92 (hex) HUMAX Co., Ltd.
90D092 (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

84-30-CE (hex) Shenzhen Jaguar Microsystems Co., Ltd
8430CE (base 16) Shenzhen Jaguar Microsystems Co., Ltd
1101 Hanjing Financial Center, 9968 Shennan Blvd, Nanshan, Shenzhen
Shenzhen 518000
CN

64-FB-01 (hex) Zhongshan Camry Electronic Company Limited
64FB01
(base 16) Zhongshan Camry Electronic Company Limited
Baishawan Industrial Park, Qiwan Road, East District, Zhongshan, Guangdong
Zhongshan Guangdong 528403
CN

38-F6-CF (hex) zte corporation
38F6CF (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

C8-A6-08 (hex) Ruckus Wireless
C8A608 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

EC-0C-96 (hex) Nokia
EC0C96 (base 16) Nokia
600 March Road

Kanata Ontario K2K 2E6
CA

A0-77-9E (hex) Chipsea Technologies (Shenzhen) Corp.
A0779E (base 16) Chipsea Technologies (Shenzhen) Corp.
3 / F, Block A, Building 2, Shenzhen Bay Innovation Technology Center, No.3156 keyuan South Road, Yuehai Street, Nanshan District, Shenzhen
Shenzhen Guangdong 518000
CN

90-F8-91 (hex) Kaon Group Co., Ltd.
90F891 (base 16) Kaon Group Co., Ltd.
884-3, Seongnam-daero, Bundang-gu
Seongnam-si
Gyeonggi-do 13517
KR

98-77-E7 (hex) Kaon Group Co., Ltd.
9877E7 (base 16) Kaon Group Co., Ltd.
884-3, Seongnam-daero, Bundang-gu
Seongnam-si Gyeonggi-do 13517
KR

84-01-12 (hex) Kaon Group Co., Ltd.
840112 (base 16) Kaon Group Co., Ltd.
884-3, Seongnam-daero, Bundang-gu
Seongnam-si Gyeonggi-do 13517
KR

18-34-AF (hex) Kaon Group Co., Ltd.
1834AF (base 16) Kaon Group Co., Ltd.
884-3, Seongnam-daero, Bundang-gu
Seongnam-si Gyeonggi-do 13517
KR

B8-1E-A4 (hex) Liteon Technology Corporation
B81EA4 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

34-D8-56 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
34D856 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

F8-6F-B0 (hex) TP-LINK TECHNOLOGIES CO.,LTD.

F86FB0 (base 16) TP-LINK
TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

90-F4-21 (hex) IEEE Registration Authority
90F421 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

24-23-61 (hex) vivo Mobile Communication Co., Ltd.
242361 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

84-0F-2A (hex) Jiangxi Risound Electronics Co., LTD
840F2A (base 16) Jiangxi Risound Electronics Co., LTD
No 271,innovation Avenue, Jinggangshan economic and Technological Development Zone
Jian Jiangxi 343100
CN

34-47-D4 (hex) Chengdu Quanjing Intelligent Technology Co.,Ltd
3447D4 (base 16) Chengdu Quanjing Intelligent Technology Co.,Ltd
Building A2, Chi Yuen Technology Park, 1001 College Avenue, Nanshan District, Shenzhen,P.R.C.
Shenzhen Guangdong 518000
CN

D4-27-87
(hex) Shanghai High-Flying Electronics Technology Co., Ltd
D42787 (base 16) Shanghai High-Flying Electronics Technology Co., Ltd
Room 1002,#1Building,No.3000 Longdong Avenue,Pudong
Shanghai Shanghai 201202
CN

34-D4-E3 (hex) Atom Power, Inc.
34D4E3 (base 16) Atom Power, Inc.
13245 Reese Blvd WSuite 130
Huntersville NC 28078
US

0C-87-72 (hex) FUJIAN STAR-NET COMMUNICATION CO.,LTD
0C8772 (base 16) FUJIAN STAR-NET COMMUNICATION CO.,LTD
19-22# Building, Star-net Science Plaza, Juyuanzhou,
FUZHOU FUJIAN 350002
CN

48-5F-08 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
485F08 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

34-F0-43 (hex) Samsung Electronics Co.,Ltd
34F043 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

4C-66-A6
(hex) Samsung Electronics Co.,Ltd
4C66A6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F8-C4-AE (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
F8C4AE (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

C4-A8-16 (hex) eero inc.
C4A816 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

74-49-D2 (hex) New H3C Technologies Co., Ltd
7449D2 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

DC-D2-6A (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
DCD26A (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

AC-D8-A7 (hex) BELLDESIGN Inc.
ACD8A7 (base 16) BELLDESIGN Inc.
5-6-1, Negishi, Minami-Ku
Saitama-shi Saitama 336-0024

JP

14-18-44
(hex) Xenon Smart Teknoloji Ltd.
141844 (base 16) Xenon Smart Teknoloji Ltd.
Tatlisu Mh. Akdag Cd. No:3-5
Umraniye Istanbul 34774
TR

A0-66-36 (hex) Intracom SA Telecom Solutions
A06636 (base 16) Intracom SA Telecom Solutions
19.7 klm Marcopoulo Ave
PEANIA ATTIKI 19002
GR

58-43-AB (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
5843AB (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

74-54-6B (hex) hangzhou zhiyi communication co., ltd
74546B (base 16) hangzhou zhiyi communication co., ltd
706-707, baiyun building-2,No. 190 tiancheng road
hangzhou zhejiang 310007
CN

D8-D4-5D (hex) Orbic North America
D8D45D (base 16) Orbic North America
555 Wireless Blvd.
Hauppauge NY 11788
US

90-6D-62 (hex) Cambium Networks Limited
906D62 (base 16) Cambium Networks Limited
Unit B2, Linhay Business
Park,
Ashburton Devon TQ13 7UP
GB

30-B2-9F (hex) EVIDENT CORPORATION
30B29F (base 16) EVIDENT CORPORATION
Shinjuku Monolith, 3-1 Nishi-Shinjuku 2-chome
Shinjuku-ku Tokyo 163-0910
JP

24-DC-C3 (hex) Espressif Inc.
24DCC3 (base 16) Espressif Inc.

Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

F8-24-DB (hex) EntryPoint Networks, Inc
F824DB (base 16) EntryPoint Networks, Inc
1949 West Printers Row
Salt Lake City UT 84119
US

B4-4D-43 (hex) IEEE Registration Authority
B44D43 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

78-2A-F8 (hex) IETHCOM INFORMATION TECHNOLOGY CO., LTD.
782AF8 (base 16) IETHCOM INFORMATION TECHNOLOGY CO., LTD.
Room 201, Building 39, Liando U Valley, 328 Heng Yong Road, Jiading District.
Shanghai 201806
CN

DC-8D-91 (hex) Infinix mobility limited
DC8D91 (base 16) Infinix mobility
limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

40-9A-30 (hex) TECNO MOBILE LIMITED
409A30 (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

58-56-9F (hex) Cisco Systems, Inc
58569F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A8-2A-D6 (hex) Arthrex Inc.
A82AD6 (base 16) Arthrex Inc.
1370 Creekside Boulevard
Naples FL 34108
US

F4-AA-D0 (hex) OHSUNG
F4AAD0 (base 16) OHSUNG
335-4,SANHODAERO,GUMI,GYEONG BUK,KOREA
GUMI GYEONG BUK 730-030
KR

FC-48-C9 (hex) Yobiiq Intelligence B.V.
FC48C9 (base 16) Yobiiq Intelligence B.V.
Bedrijfsweg 31
Geleen Limburg 6163CZ
NL

08-33-ED (hex) ASKEY COMPUTER CORP
0833ED (base 16) ASKEY COMPUTER
CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

0C-29-8F (hex) Tesla,Inc.
0C298F (base 16) Tesla,Inc.
3500 Deer Creek Rd.
PALO ALTO CA 94304
US

20-B8-2B (hex) Sagemcom Broadband SAS
20B82B (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

E4-8E-BB (hex) Rockwell Automation
E48EBB (base 16) Rockwell Automation
1 Allen-Bradley Dr.
Mayfield Heights OH 44124-6118
US

50-E5-38 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
50E538 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

48-45-CF (hex) LLC Proizvodstvennaya Kompania TransService
4845CF (base 16) LLC Proizvodstvennaya Kompania TransService
Ulitsa Podolskih Kursantov, build. 3, of. 133
Moscow Moscow 117545

RU

8C-02-CD (hex) FUJIAN STAR-NET COMMUNICATION CO.,LTD
8C02CD
(base 16) FUJIAN STAR-NET COMMUNICATION CO.,LTD
19-22# Building, Star-net Science Plaza, Juyuanzhou,
FUZHOU FUJIAN 350002
CN

54-F8-F0 (hex) Tesla Inc
54F8F0 (base 16) Tesla Inc
1 Tesla Road
Austin TX 78725
US

64-1C-10 (hex) Texas Instruments
641C10 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

24-BF-74 (hex) Hamamatsu Photonics K.K.
24BF74 (base 16) Hamamatsu Photonics K.K.
1126-1, Ichino-cho, Higashi-ku
Hamamatsu-City Shizuoka-ken 435-8558
JP

FC-2C-FD (hex) dormakaba Canada Inc. - Keyscan
FC2CFD (base 16) dormakaba Canada Inc. - Keyscan
901 Burns Street East
Whitby Ontario L1N 0E6
CA

4C-9B-63 (hex) LG Innotek
4C9B63 (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

94-7F-D8 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
947FD8 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block
A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

20-89-8A (hex) Shenzhen Skyworth Digital Technology CO., Ltd
20898A (base 16) Shenzhen Skyworth Digital Technology CO., Ltd

4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

18-AA-1E (hex) Shenzhen Skyworth Digital Technology CO., Ltd
18AA1E (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

FC-7A-58 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
FC7A58 (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

78-53-0D (hex) Shenzhen Skyworth Digital Technology CO., Ltd
78530D (base 16) Shenzhen Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

78-5F-36 (hex) Shenzhen Skyworth Digital Technology CO., Ltd
785F36 (base 16) Shenzhen
Skyworth Digital Technology CO., Ltd
4F,Block A, Skyworth?Building,
Shenzhen Guangdong 518057
CN

C0-17-54 (hex) Apple, Inc.
C01754 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C8-F2-25 (hex) EM Microelectronic
C8F225 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

BC-33-40 (hex) Cisco Meraki
BC3340 (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco 94158
US

00-12-27 (hex) Franklin Electric Co., Inc.

001227 (base 16) Franklin Electric Co., Inc.
9255 Coverdale Road
Fort Wayne IN 46809
US

AC-1A-3D (hex) Dell Inc.
AC1A3D (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

F4-9D-A7 (hex) Private
F49DA7 (base 16) Private

E8-8F-C4 (hex) MOBIWIRE MOBILES(NINGBO) CO.,LTD
E88FC4 (base 16) MOBIWIRE MOBILES(NINGBO) CO.,LTD
Buliding B,Bird Indusrtial Park No.999 Dacheng Road,Fenghua
Zhejiang,China
NingBo ZheJiang 315500
CN

E8-4C-4A (hex) Amazon Technologies Inc.
E84C4A (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

74-8F-4D (hex) duagon Germany GmbH
748F4D (base 16) duagon Germany GmbH
Neuwieder Str. 1 - 7
Nuremberg Bavaria 90411
DE

00-C0-3A (hex) duagon Germany GmbH
00C03A (base 16) duagon Germany GmbH
Neuwieder Str. 1 - 7
Nuremberg Bavaria 90411
DE

2C-64-F6 (hex) Wu Qi Technologies,Inc.
2C64F6 (base 16) Wu Qi Technologies,Inc.
14/F, 107 Middle Road, Xiantao Big Data Valley, Yubei District
Chongqing Chongqing 401120
CN

88-68-4B (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
88684B (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,

DONG GUAN GUANG DONG 523860
CN

64-8F-3E (hex) Cisco Systems, Inc
648F3E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA
94568
US

CC-B6-C8 (hex) Cisco Systems, Inc
CCB6C8 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

6C-D6-E3 (hex) Cisco Systems, Inc
6CD6E3 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

18-FB-7B (hex) Dell Inc.
18FB7B (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

1C-40-24 (hex) Dell Inc.
1C4024 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

14-18-77 (hex) Dell Inc.
141877 (base 16) Dell Inc.
One Dell way
Round Rock 78682
US

E0-DB-55 (hex) Dell Inc.
E0DB55 (base 16) Dell Inc.
One Dell way
Round Rock 78682
US

F0-4D-A2 (hex) Dell Inc.
F04DA2 (base 16) Dell Inc.

One Dell Way, MS RR5-45
Round Rock 78682
US

84-2B-2B (hex) Dell Inc.
842B2B (base 16) Dell Inc.
One Dell Way, MS RR5-45
Round Rock 78682
US

EC-2C-49 (hex) NakaoLab, The
University of Tokyo
EC2C49 (base 16) NakaoLab, The University of Tokyo
Engineering Building 3, Room 445, 7-3-1 Hongo
Tokyo Bunkyoku 113-0033
JP

24-6E-96 (hex) Dell Inc.
246E96 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

34-E6-D7 (hex) Dell Inc.
34E6D7 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

74-E6-E2 (hex) Dell Inc.
74E6E2 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

24-B6-FD (hex) Dell Inc.
24B6FD (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

00-0F-1F (hex) Dell Inc.
000F1F (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

D4-AE-52 (hex) Dell Inc.

D4AE52 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

F8-B1-56 (hex) Dell Inc.
F8B156 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

00-A0-85 (hex) Private
00A085 (base 16) Private

CC-96-E5
(hex) Dell Inc.
CC96E5 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

3C-46-A1 (hex) Ruckus Wireless
3C46A1 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

EC-ED-73 (hex) Motorola Mobility LLC, a Lenovo Company
ECED73 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

00-06-5B (hex) Dell Inc.
00065B (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

B8-AC-6F (hex) Dell Inc.
B8AC6F (base 16) Dell Inc.
One Dell Way, MS RR5-45
Round Rock 78682
US

00-21-9B (hex) Dell Inc.
00219B (base 16) Dell Inc.
One Dell Way, MS RR5-45

Round Rock 78682
US

00-21-70 (hex) Dell Inc.
002170 (base 16) Dell Inc.
One Dell Way, MS RR5-45
Round Rock 78682
US

00-1E-C9 (hex) Dell Inc.
001EC9 (base 16) Dell Inc.
One Dell Way, MS RR5-45
Round Rock
78682
US

D8-D0-90 (hex) Dell Inc.
D8D090 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

1C-72-1D (hex) Dell Inc.
1C721D (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

0C-29-EF (hex) Dell Inc.
0C29EF (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

78-AC-44 (hex) Dell Inc.
78AC44 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

C0-3E-BA (hex) Dell Inc.
C03EBA (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

74-78-27 (hex) Dell Inc.
747827 (base 16) Dell Inc.

One Dell Way
Round Rock TX 78682
US

B0-7B-25 (hex) Dell Inc.
B07B25 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

B8-85-84 (hex) Dell Inc.
B88584 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

E4-B9-7A (hex) Dell Inc.
E4B97A (base 16) Dell Inc.
One Dell Way
Round Rock
TX 78682
US

68-4F-64 (hex) Dell Inc.
684F64 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

14-9E-CF (hex) Dell Inc.
149ECF (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

48-4D-7E (hex) Dell Inc.
484D7E (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

A0-29-19 (hex) Dell Inc.
A02919 (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

58-8A-5A (hex) Dell Inc.

588A5A (base 16) Dell Inc.
One Dell Way
Round Rock TX 78682
US

EC-C0-18 (hex) Cisco Systems, Inc
ECC018 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

74-8F-C2 (hex) Cisco Systems, Inc
748FC2 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

64-E0-AB (hex) UNION MAN TECHNOLOGY CO.,LTD
64E0AB (base 16) UNION MAN TECHNOLOGY CO.,LTD
No.5,Huitai Road,Huinan High-Tech Park,Huiao Highway
Huizhou
Guangdong 516025
CN

00-19-F0 (hex) UNION MAN TECHNOLOGY CO.,LTD
0019F0 (base 16) UNION MAN TECHNOLOGY CO.,LTD
18F, HUAYANG TOWER,YANDAYI ROAD
HUIZHOU GUANGDONG 516007
CN

A0-1C-87 (hex) UNION MAN TECHNOLOGY CO.,LTD
A01C87 (base 16) UNION MAN TECHNOLOGY CO.,LTD
No.5,Huitai Road,Huinan High-Tech Park,Huiao Highway
Huizhou Guangdong 516025
CN

40-F4-FD (hex) UNION MAN TECHNOLOGY CO.,LTD
40F4FD (base 16) UNION MAN TECHNOLOGY CO.,LTD
No.5,Huitai Road,Huinan High-Tech Park,Huiao Highway
Huizhou Guangdong 516025
CN

44-A3-C7 (hex) zte corporation
44A3C7 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

AC-3D-94 (hex) Arista Networks
AC3D94 (base 16) Arista Networks
5453 Great America Parkway
Santa Clara CA 95054
US

B0-44-9C (hex) Assa Abloy AB - Yale
B0449C (base 16) Assa Abloy AB - Yale
Nordenskiöldsgatan
8B (5tr)
Malmö 211 19
SE

60-2A-1B (hex) JANCUS
602A1B (base 16) JANCUS
Room 101-3. Technology Start-up Center, 10 Electric-gil, Seongsan-gu, Changwon-si, Gyeongsangnam-do
Changwon-si 51542
KR

68-85-6A (hex) OuterLink Corporation
68856A (base 16) OuterLink Corporation
150 Baker Avenue Extension, Suite 302
Concord MA 01742
US

E4-12-89 (hex) topsystem GmbH
E41289 (base 16) topsystem GmbH
Krefelder Straße 201
Aachen 52070
DE

AC-12-8E (hex) Shanghai Baud Data Communication Co.,Ltd.
AC128E (base 16) Shanghai Baud Data Communication Co.,Ltd.
NO.123 JULI RD
PUDONG ZHANGJIANG HIGH-TECH PARK SHANGHAI 201203
CN

30-E1-F1 (hex) Intelbras
30E1F1 (base 16) Intelbras
BR 101, km 210, S/N°
São José Santa Catarina 88104800
BR

00-1D-9C (hex) Rockwell Automation
001D9C (base 16) Rockwell Automation
1 Allen-Bradley Dr.
Mayfield Heights OH 44124-6118
US

D0-19-D3
(hex) ITEL MOBILE LIMITED
D019D3 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

CC-AC-FE (hex) Telink Semiconductor (Shanghai) Co., Ltd.
CCACFE (base 16) Telink Semiconductor (Shanghai) Co., Ltd.
No. 1500 Zuchongzhi Rd, Building #3
Shanghai 201203
CN

88-6E-DD (hex) Micronet union Technology(Chengdu)Co., Ltd.
886EDD (base 16) Micronet union Technology(Chengdu)Co., Ltd.
No.502, Building 5, No. 528, Yuefei Road, Shibantan Street, Xindu District
Chengdu Sichuan 610000
CN

80-F3-EF (hex) Meta Platforms Technologies, LLC
80F3EF (base 16) Meta Platforms Technologies, LLC
1601 Willow Rd
Menlo Park CA 94025
US

D8-B2-49 (hex) Huawei Device Co., Ltd.
D8B249 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C4-9D-08
(hex) Huawei Device Co., Ltd.
C49D08 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

4C-5E-D3 (hex) Unisyue Technologies Co; LTD.
4C5ED3 (base 16) Unisyue Technologies Co; LTD.
Room 402, No. 2 Building, NO.1 ZhongGuancun East Rd, HaiDian District, Beijing, People’s Republic of China
Beijing 100190
CN

18-84-C1 (hex) Guangzhou Shiyuan Electronic Technology Company Limited
1884C1 (base 16) Guangzhou Shiyuan Electronic Technology Company Limited
No.6, 4th Yunpu Road, Yunpu industry District

Guangzhou Guangdong 510530
CN

D0-16-F0 (hex) IEEE Registration Authority
D016F0 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

F4-00-46 (hex) ON Semiconductor
F40046 (base 16) ON Semiconductor
5005 East McDowell Road
Phoenix 85008
US

80-43-3F (hex) Juniper Networks
80433F (base 16) Juniper Networks
1133
Innovation Way
Sunnyvale CA 94089
US

C4-2F-90 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
C42F90 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.469,Jianghui Road
Hangzhou Zhejiang 310052
CN

54-C4-15 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
54C415 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.469,Jianghui Road
Hangzhou Zhejiang 310052
CN

B4-A3-82 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
B4A382 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

68-6D-BC (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
686DBC (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

D8-24-EC (hex) Plenom A/S
D824EC (base 16) Plenom A/S

Pi 2, Soften
Hinnerup Favrskov 8382
DK

10-12-D0 (hex) zte corporation
1012D0
(base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

50-45-94 (hex) Radisys
504594 (base 16) Radisys
8900 NE Walker Road, Suite 130
Hillsboro OR 97006
US

5C-4D-BF (hex) zte corporation
5C4DBF (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

98-47-44 (hex) Shenzhen Boomtech Industrial Corporation
984744 (base 16) Shenzhen Boomtech Industrial Corporation
2F, Block E, Bao'an Intelligent Valley, Yingtian Road No.4, Xixiang Sub-District Office, Bao'an District
Shenzhen 518100
CN

48-38-B6 (hex) Auhui Taoyun Technology Co., Ltd
4838B6 (base 16) Auhui Taoyun Technology Co., Ltd
6/F and 23/F, Scientific Research Building, Building 2, Zone A, China Sound Valley, No. 3333, Xiyou Road, High tech Zone
Hefei Anhui 230094
CN

AC-89-D2 (hex) Ciena Corporation
AC89D2
(base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

E0-56-94 (hex) Yunhight Microelectronics
E05694 (base 16) Yunhight Microelectronics
No. 801-31, Data Center, No. 9, Shaping Road, Guoxing Avenue, Lingang Economic Development District
Yibin Sichuan 644000
CN

BC-C4-27 (hex) HUAWEI TECHNOLOGIES CO.,LTD
BCC427 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B0-CF-CB (hex) Amazon Technologies Inc.
B0CFCB (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

A4-D5-C2 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
A4D5C2 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

00-30-52 (hex) DZS Inc.
003052 (base 16) DZS Inc.
6120 WINDWARD PARKWAY -STE#100
ALPHARETTA GA 30005
US

A0-FF-0C (hex) Hangzhou Hikvision
Digital Technology Co.,Ltd.
A0FF0C (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

08-54-11 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
085411 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

74-3F-C2 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
743FC2 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road
Hangzhou Zhejiang 310052
CN

00-03-56 (hex) Diebold Nixdorf
000356 (base 16) Diebold Nixdorf
Wohlrabedamm 31
Berlin 13629

DE

00-15-6D (hex) Ubiquiti Inc
00156D (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

00-27-22 (hex) Ubiquiti Inc
002722 (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

DC-9F-DB (hex) Ubiquiti Inc
DC9FDB
(base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

18-E8-29 (hex) Ubiquiti Inc
18E829 (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

74-AC-B9 (hex) Ubiquiti Inc
74ACB9 (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

F4-92-BF (hex) Ubiquiti Inc
F492BF (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

68-D7-9A (hex) Ubiquiti Inc
68D79A (base 16) Ubiquiti Inc
685 Third Avenue, 27th Floor
New York NY New York NY 10017
US

08-A1-89 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
08A189 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555 Qianmo Road

Hangzhou Zhejiang 310052
CN

44-A6-42 (hex) Hangzhou Hikvision Digital Technology Co.,Ltd.
44A642 (base 16) Hangzhou Hikvision Digital Technology Co.,Ltd.
No.555
Qianmo Road
Hangzhou Zhejiang 310052
CN

24-27-30 (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
242730 (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

54-11-59 (hex) Nettrix Information Industry co.LTD
541159 (base 16) Nettrix Information Industry co.LTD
Building 27, yard 8, Dongbei Wangxi Road, Haidian District, Beijing
Beijing Beijing 100193
CN

E8-A2-45 (hex) Juniper Networks
E8A245 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

84-03-28 (hex) Juniper Networks
840328 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

F4-BF-A8 (hex) Juniper Networks
F4BFA8 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

C8-FE-6A (hex) Juniper Networks
C8FE6A (base 16) Juniper Networks
1133 Innovation
Way
Sunnyvale CA 94089
US

FC-96-43 (hex) Juniper Networks

FC9643 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

08-05-E2 (hex) Juniper Networks
0805E2 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

00-14-F6 (hex) Juniper Networks
0014F6 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

2C-6B-F5 (hex) Juniper Networks
2C6BF5 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

B0-C6-9A (hex) Juniper Networks
B0C69A (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

EC-13-DB (hex) Juniper Networks
EC13DB (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

F4-CC-55 (hex) Juniper Networks
F4CC55 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

88-E6-4B (hex) Juniper Networks
88E64B
(base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

D0-DD-49 (hex) Juniper Networks
D0DD49 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

1C-9C-8C (hex) Juniper Networks
1C9C8C (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

9C-8A-CB (hex) Juniper Networks
9C8ACB (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

10-39-E9 (hex) Juniper Networks
1039E9 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

88-E0-F3 (hex) Juniper Networks
88E0F3 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

F8-C0-01 (hex) Juniper Networks
F8C001 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

A8-D0-E5 (hex) Juniper Networks
A8D0E5 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

54-E0-32
(hex) Juniper Networks
54E032 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

3C-8A-B0 (hex) Juniper Networks
3C8AB0 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

80-71-1F (hex) Juniper Networks
80711F (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

3C-61-04 (hex) Juniper Networks
3C6104 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

F4-B5-2F (hex) Juniper Networks
F4B52F (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

28-A2-4B (hex) Juniper Networks
28A24B (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

00-1D-B5 (hex) Juniper Networks
001DB5 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

0C-95-05 (hex) The Chamberlain Group, Inc
0C9505 (base 16) The Chamberlain
Group, Inc
300 Windsor Drive
Oak Brook IL 60523
US

08-E6-C9 (hex) Business-intelligence of Oriental Nations Corporation Ltd.
08E6C9 (base 16) Business-intelligence of Oriental Nations Corporation Ltd.
101, Floor 7, Building 1, Yard 1, Chuangda Third Road, Chaoyang District, Beijing
Beijing 100102

CN

7C-27-3C (hex) Shenzhen Yunlink Technology Co., Ltd
7C273C (base 16) Shenzhen Yunlink Technology Co., Ltd
Gushu, Xixiang Town, Bao'an District,
Shenzhen City Guangdong Province 518100
CN

1C-2A-B0 (hex) Beijing Xiaomi Electronics Co.,Ltd
1C2AB0 (base 16) Beijing Xiaomi Electronics Co.,Ltd
Xiaomi Campus
Beijing Beijing 100085
CN

98-17-F1 (hex) zte corporation
9817F1 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

98-C8-54 (hex) Chiun Mai Communication System, Inc
98C854 (base 16) Chiun Mai Communication System, Inc
No.4,
MingSheng St. TuCheng District
New Taipei City 23679
TW

70-17-D7 (hex) Shanghai Enflame Technology Co., Ltd.
7017D7 (base 16) Shanghai Enflame Technology Co., Ltd.
A-522, No. 188, Yesheng Road, LIN-GANG Special Area, China (Shanghai) Pilot Free Trade Zone
Shanghai Shanghai 201306
CN

A0-8E-24 (hex) eero inc.
A08E24 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

64-B7-08 (hex) Espressif Inc.
64B708 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

B8-6A-F1 (hex) Sagemcom Broadband SAS
B86AF1 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur

Rueil Malmaison Cedex hauts de seine 92848
FR

CC-58-30 (hex) Sagemcom Broadband SAS
CC5830 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

A4-51-5E (hex) Juniper Networks
A4515E
(base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

88-28-FB (hex) Juniper Networks
8828FB (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

E8-24-A6 (hex) Juniper Networks
E824A6 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

B4-98-82 (hex) Brusa HyPower AG
B49882 (base 16) Brusa HyPower AG
Langäulistrasse 60
Buchs 9470
CH

4C-C8-44 (hex) Maipu Communication Technology Co.,Ltd.
4CC844 (base 16) Maipu Communication Technology Co.,Ltd.
No.16 Jiuxing Avenue, Hi-tech zone
Chengdu Sichuan 610094
CN

00-2B-F5 (hex) BUFFALO.INC
002BF5 (base 16) BUFFALO.INC
AKAMONDORI Bld.,30-20,Ohsu 3-chome,Naka-ku
Nagoya Aichi Pref. 460-8315
JP

5C-16-48 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
5C1648 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD

NO.18 HAIBIN ROAD,
DONG GUAN
GUANG DONG 523860
CN

68-F3-8E (hex) Juniper Networks
68F38E (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

EC-94-D5 (hex) Juniper Networks
EC94D5 (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

A4-E1-1A (hex) Juniper Networks
A4E11A (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

24-FC-4E (hex) Juniper Networks
24FC4E (base 16) Juniper Networks
1133 Innovation Way
Sunnyvale CA 94089
US

DC-C2-C9 (hex) CANON INC.
DCC2C9 (base 16) CANON INC.
30-2 Shimomaruko 3-chome,
Ohta-ku Tokyo 146-8501
JP

08-28-02 (hex) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
082802 (base 16) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
Unit East Block22-24/F,Skyworth semiconductor design Bldg., Gaoxin Ave.4.S.,Nanshan District,Shenzhen,China
SHENZHEN GUANGDONG 518057
CN

CC-42-10 (hex) Xiaomi Communications
Co Ltd
CC4210 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

84-46-93 (hex) Beijing Xiaomi Mobile Software Co., Ltd
844693 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

5C-75-45 (hex) Wayties, Inc.
5C7545 (base 16) Wayties, Inc.
#206, 42 Changyeop-ro Sujeong-gu
Seongnam-si Gyenggi-do 13449
KR

38-0F-AD (hex) HUAWEI TECHNOLOGIES CO.,LTD
380FAD (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D8-53-BC (hex) Lenovo Information Products (Shenzhen)Co.,Ltd
D853BC (base 16) Lenovo Information Products (Shenzhen)Co.,Ltd
2F, NO.1 Plant , Lenovo Innovation Park, Lidu Road, Loucun Community, Xinhu Street, Guangming District , Shenzhen, Guangdong, China
Shenzhen
Guangdong 518000
CN

B4-E5-4C (hex) LLC Elektra
B4E54C (base 16) LLC Elektra
Russian Federation, Moscow, Goncharnaya st, house ? 30, building 1, office ?511
Moscow 115172
RU

80-AC-C8 (hex) Phyplus Microelectronics Limited
80ACC8 (base 16) Phyplus Microelectronics Limited
304 Building 1 No.608 Sheng Xia Road
Shanghai 200000
CN

A4-16-C0 (hex) Apple, Inc.
A416C0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

DC-45-B8 (hex) Apple, Inc.
DC45B8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

90-EC-EA (hex) Apple, Inc.
90ECEA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

10-B5-88 (hex) Apple, Inc.
10B588 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-D3-1F (hex) Apple, Inc.
F0D31F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B4-AE-C1 (hex) Apple,
Inc.
B4AEC1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

54-32-C7 (hex) Apple, Inc.
5432C7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

58-E4-88 (hex) Amazon Technologies Inc.
58E488 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

20-21-41 (hex) Universal Electronics BV
202141 (base 16) Universal Electronics BV
Colosseum 2
Enschede Ov 7521 PT
NL

44-DF-65 (hex) Beijing Xiaomi Mobile Software Co., Ltd
44DF65 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District

Beijing Beijing 100085
CN

D8-03-1A (hex) Laird Connectivity
D8031A (base 16) Laird Connectivity
3F.-1, No.145, Xianzheng 9th Rd.,
Zhubei 30251
TW

24-78-23 (hex) Panasonic Entertainment & Communication Co., Ltd.
247823 (base 16) Panasonic Entertainment & Communication
Co., Ltd.
3-1-1 Yagumo-naka-machi
Moriguchi Osaka 570-8501
JP

48-29-D6 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
4829D6 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

FC-6A-1C (hex) Mellanox Technologies, Inc.
FC6A1C (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

A0-88-C2 (hex) Mellanox Technologies, Inc.
A088C2 (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

28-D0-CB (hex) Adtran Inc
28D0CB (base 16) Adtran Inc
Victory House, Vision Park, Chivers Way, Histon
Cambridge CB24 9ZR
GB

AC-51-EE (hex) Adtran Inc
AC51EE (base 16) Adtran Inc
Sheraton House
Cambridge Cambridgeshire CB3 0AX
GB

C4-FC-22 (hex) YEALINK(XIAMEN) NETWORK TECHNOLOGY CO.,LTD.
C4FC22 (base 16) YEALINK(XIAMEN) NETWORK

TECHNOLOGY CO.,LTD.
309, 3th Floor, No.16, Yun Ding North Road, Huli District
xiamen Fujian 361015
CN

A0-60-32 (hex) Amcrest Technologies
A06032 (base 16) Amcrest Technologies
16727 Park Row
Houston TX 77084
US

BC-AD-90 (hex) Kymeta Purchasing
BCAD90 (base 16) Kymeta Purchasing
12034 134th Ct NE #105
Redmond WA 98052
US

3C-99-8C (hex) Houwa System Design Corp.
3C998C (base 16) Houwa System Design Corp.
4F Matubara Building 3-22-14 Shibuyaku Higashi
Tokyo 150-0011
JP

A8-80-55 (hex) Tuya Smart Inc.
A88055 (base 16) Tuya Smart Inc.
160 Greentree Drive, Suite 101
Dover DE 19904
US

50-8B-B9 (hex) Tuya Smart Inc.
508BB9 (base 16) Tuya Smart Inc.
160 Greentree Drive, Suite 101
Dover DE 19904
US

6C-AC-C2 (hex) Samsung Electronics Co.,Ltd
6CACC2 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

BC-F7-30 (hex) Samsung
Electronics Co.,Ltd
BCF730 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

98-F9-CC (hex) Zhejiang Dahua Technology Co., Ltd.
98F9CC (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

38-68-A4 (hex) Samsung Electronics Co.,Ltd
3868A4 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

AC-1E-92 (hex) Samsung Electronics Co.,Ltd
AC1E92 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon 16677
KR

B8-37-B2 (hex) Aruba, a Hewlett Packard Enterprise Company
B837B2 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

44-EE-14 (hex) Texas Instruments
44EE14 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

B4-AC-9D (hex) Texas Instruments
B4AC9D
(base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

D4-3F-32 (hex) eero inc.
D43F32 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

F8-34-51 (hex) Comcast-SRL
F83451 (base 16) Comcast-SRL
Alejo Martinez 17
Sosua Puerto Plata 34443
DO

68-63-72 (hex) Huawei Device Co., Ltd.
686372 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

A0-C2-0D (hex) Huawei Device Co., Ltd.
A0C20D (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

4C-88-9E (hex) Huawei Device Co., Ltd.
4C889E (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

3C-31-74 (hex) Google, Inc.
3C3174 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

BC-93-07 (hex) Samsung
Electronics Co.,Ltd
BC9307 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

DC-FB-B8 (hex) Meizhou Guo Wei Electronics Co., Ltd
DCFBB8 (base 16) Meizhou Guo Wei Electronics Co., Ltd
AD1 Section, The Economy Development Area, Dongsheng Industrial District,
Meizhou Guangdong Province 514000
CN

50-3C-CA (hex) TECNO MOBILE LIMITED
503CCA (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

9C-0C-35 (hex) Shenzhenshi Xinzhongxin Technology Co.Ltd
9C0C35 (base 16) Shenzhenshi Xinzhongxin Technology Co.Ltd
Block 3, Dong Huan Industrial Park, Sha Jing Town, Bao’an District, Shenzhen City, Guangdong Province, China

ShenZHEN GuangDong 518104
CN

78-D6-D6 (hex) eero inc.
78D6D6 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

6C-23-16
(hex) TATUNG Technology Inc.,
6C2316 (base 16) TATUNG Technology Inc.,
Room 1000,10F., No.288, Sec. 6, Civic Blvd.,Xinyi Dist.,
Taipei City TAIWAN 11087
TW

C8-ED-FC (hex) Shenzhen Ideaform Industrial Product Design Co., Ltd
C8EDFC (base 16) Shenzhen Ideaform Industrial Product Design Co., Ltd
Room 206, Building A2, Hangcheng Park, Xixiang Street, Bao'an District
Shenzhen Guangdong 518100
CN

F8-22-29 (hex) Nokia Shanghai Bell Co., Ltd.
F82229 (base 16) Nokia Shanghai Bell Co., Ltd.
No.388 Ning Qiao Road,Jin Qiao Pudong Shanghai
Shanghai 201206
CN

E4-62-C4 (hex) Cisco Systems, Inc
E462C4 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

20-DE-1E (hex) Nokia
20DE1E (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

60-77-71 (hex) Texas Instruments
607771 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

AC-B1-81

(hex) Belden Mooresville
ACB181 (base 16) Belden Mooresville
1113 N Main St.
Mooresville 28115
US

AC-E4-03 (hex) Shenzhen Visteng Technology CO.,LTD
ACE403 (base 16) Shenzhen Visteng Technology CO.,LTD
6F, M7, MaQueLing, Hi-tech Park, Nanshan District
Shenzhen 518000
CN

C4-DB-04 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C4DB04 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-7D-77 (hex) HUAWEI TECHNOLOGIES CO.,LTD
947D77 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-09-C9 (hex) ALPSALPINE CO,.LTD
9409C9 (base 16) ALPSALPINE CO,.LTD
nishida 6-1
kakuda-City Miyagi-Pref 981-1595
JP

60-D0-39 (hex) Apple, Inc.
60D039 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C4-C1-7D (hex) Apple,
Inc.
C4C17D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

44-3D-54 (hex) Amazon Technologies Inc.
443D54 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

54-47-CC (hex) Sagemcom Broadband SAS
5447CC (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

E0-BD-A0 (hex) Apple, Inc.
E0BDA0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

58-73-D8 (hex) Apple, Inc.
5873D8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F4-E8-C7 (hex) Apple, Inc.
F4E8C7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

14-85-09 (hex) Apple, Inc.
148509 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A0-A7-63 (hex) Polytron Vertrieb GmbH
A0A763 (base 16) Polytron Vertrieb GmbH
Langwiesenweg 64-71
Bad Wildbad Baden-Württemberg
75323
DE

A4-3F-51 (hex) Shenzhen Benew Technology Co.,Ltd.
A43F51 (base 16) Shenzhen Benew Technology Co.,Ltd.
No.2001, Building 2, Sunmax Technology Park, Kehua Road No.8, Nanshan District
Shenzhen 518057
CN

A4-18-94 (hex) Bosch Security Systems B.V.
A41894 (base 16) Bosch Security Systems B.V.
Torenalle 49
Eindhoven 5617 BA

NL

8C-CD-FE (hex) AMPAK Technology,Inc.
8CCDFE (base 16) AMPAK Technology,Inc.
3F, No.15-1 Zhonghua Road, Hsinchu Industrail Park, Hukou,
Hsinchu Hsinchu,Taiwan R.O.C. 30352
TW

48-5D-35 (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
485D35 (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

98-AC-EF (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
98ACEF (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District,
Chongqing.
Chongqing China 401120
CN

24-D7-9C (hex) Cisco Systems, Inc
24D79C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1B-8F (hex) Cisco Systems, Inc
001B8F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

D0-4F-58 (hex) Ruckus Wireless
D04F58 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

24-72-4A (hex) Nile Global Inc
24724A (base 16) Nile Global Inc
10915 Miramonte Rd
Cupertino 95014
US

00-84-1E (hex) Cisco Meraki
00841E (base 16) Cisco Meraki
500 Terry A. Francois Blvd

San Francisco 94158
US

F8-5B-9B (hex) iMercury
F85B9B (base 16) iMercury
2-14
Kanda Tsukasamachi, Chiyoda-ku Tokyo 101-0048
JP

50-0B-26 (hex) HUAWEI TECHNOLOGIES CO.,LTD
500B26 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan
523808
CN

50-41-72 (hex) HUAWEI TECHNOLOGIES CO.,LTD
504172 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-09-41 (hex) Allied Telesis K.K.
000941 (base 16) Allied Telesis K.K.
Technical Center/No.2 TOC Bldg.
Shinagawa-ku 141-0031
US

80-FB-F0 (hex) Quectel Wireless Solutions Co.,Ltd.
80FBF0 (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

90-BD-E6 (hex) Quectel Wireless Solutions Co.,Ltd.
90BDE6 (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

54-65-03 (hex) Quectel Wireless Solutions Co.,Ltd.
546503 (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

90-A6-BF

(hex) Quectel Wireless Solutions Co.,Ltd.
90A6BF (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

3C-58-5D (hex) Sagemcom Broadband SAS
3C585D (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

38-95-92 (hex) Tendyron Corporation
389592 (base 16) Tendyron Corporation
1810,Tower B,Jin-ma,Building,17 East Qing Hua Road
Beijing 100083
CN

3C-FA-06 (hex) Microsoft Corporation
3CFA06 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

E8-47-3A (hex) Hon Hai Precision Industry Co.,LTD
E8473A (base 16) Hon Hai Precision Industry Co.,LTD
66.Chung Shan RD, TU-CHENG Industrial , district new TAIPEI CITY,23678 , TAIWAN CHINA
TAIPEI 66.Chung Shan RD, TU-CHENG Industrial , district new TAIPEI 33859
CN

D8-0E-29 (hex) vivo
Mobile Communication Co., Ltd.
D80E29 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

58-E4-03 (hex) Wistron Neweb Corporation
58E403 (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

98-CC-D9 (hex) Shenzhen SuperElectron Technology Co.,Ltd.
98CCD9 (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

64-D3-15 (hex) HMD Global Oy
64D315 (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

60-6D-9D (hex) Otto Bock Healthcare Products GmbH
606D9D (base 16) Otto Bock Healthcare Products GmbH
Brehmstraße 16
Wien Wien 1110
AT

D4-92-5E (hex) Technicolor Delivery Technologies Belgium NV
D4925E (base 16) Technicolor Delivery Technologies
Belgium NV
Prins Boudewijnlaan 47
Edegem - Belgium B-2650
BE

10-BF-67 (hex) Amazon Technologies Inc.
10BF67 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

FC-D5-D9 (hex) Shenzhen SDMC Technology CO.,Ltd.
FCD5D9 (base 16) Shenzhen SDMC Technology CO.,Ltd.
7/F,Block A,Huahan Bldg.,
Shenzhen GuangDong 518000
CN

4C-82-A9 (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
4C82A9 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

0C-AF-31 (hex) Cisco Systems, Inc
0CAF31 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

64-7C-34 (hex) Ubee Interactive Co., Limited
647C34 (base 16) Ubee Interactive Co., Limited
Flat/RM 1202, 12/F, AT Tower
North Point Hong Kong 180

HK

6C-38-A1 (hex) Ubee Interactive
Co., Limited
6C38A1 (base 16) Ubee Interactive Co., Limited
Flat/RM 1202, 12/F, AT Tower
North Point Hong Kong 180
HK

F0-C7-45 (hex) TECNO MOBILE LIMITED
F0C745 (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

B4-6D-C2 (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
B46DC2 (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268? Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

AC-CF-7B (hex) INGRAM MICRO SERVICES
ACCF7B (base 16) INGRAM MICRO SERVICES
100 CHEMIN DE BAILLOT
MONTAUBAN 82000
FR

AC-3E-B1 (hex) Google, Inc.
AC3EB1 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

CC-B7-C4 (hex) HUAWEI TECHNOLOGIES CO.,LTD
CCB7C4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin
Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

50-14-C1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
5014C1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

44-32-62 (hex) zte corporation

443262 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

F0-F6-9C (hex) NIO Co., Ltd.
F0F69C (base 16) NIO Co., Ltd.
Building 9, 889 Tianlin Road, Minhang District
Shanghai Shanghai 201804
CN

60-A2-C6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
60A2C6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A4-E8-A3 (hex) Fujian Newland Auto-ID Tech Co.,Ltd.
A4E8A3 (base 16) Fujian Newland Auto-ID Tech Co.,Ltd.
Newland Science&Technology Park,No.1,Rujiang West Rd,Mawei,Fuzhou,P.R.China
Fuzhou Fujian
350015
CN

18-FA-B7 (hex) Apple, Inc.
18FAB7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

70-22-FE (hex) Apple, Inc.
7022FE (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B0-6B-B3 (hex) GRT
B06BB3 (base 16) GRT
Unit 01, 10/F Carnival Comm BLDG 18 Java RD,North Point, Hong Kong
Hong Kong 100036
HK

88-1E-5A (hex) Apple, Inc.
881E5A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-C5-85 (hex) Apple, Inc.
00C585 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A8-7C-F8 (hex) Apple, Inc.
A87CF8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C8-E3-06 (hex) eero inc.
C8E306 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

B8-16-5F (hex) LG Innotek
B8165F (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

84-E6-57
(hex) Sony Interactive Entertainment Inc.
84E657 (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

D4-F0-C9 (hex) KYOCERA Document Solutions Inc.
D4F0C9 (base 16) KYOCERA Document Solutions Inc.
2-28 1-Chome, Tamatsukuri, Chuo-ku
osaka Japan 540-8585
JP

64-E8-33 (hex) Espressif Inc.
64E833 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

24-B7-DA (hex) Fiberhome Telecommunication Technologies Co.,LTD
24B7DA (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

08-46-C7 (hex) Fiberhome Telecommunication Technologies Co.,LTD
0846C7 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

C8-96-5A (hex) SKY UK LIMITED
C8965A (base 16) SKY UK LIMITED
Grant Way
Isleworth
Middlesex TW7 5QD
GB

C8-DE-41 (hex) SKY UK LIMITED
C8DE41 (base 16) SKY UK LIMITED
Grant Way
Isleworth Middlesex TW7 5QD
GB

38-CA-84 (hex) HP Inc.
38CA84 (base 16) HP Inc.
10300 Energy Drive
Spring TX 77389
US

B8-AB-62 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
B8AB62 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.2,Jin-da Road,Huinan Industrial Park
Hui Zhou Guangdong 516025
CN

1C-63-49 (hex) Texas Instruments
1C6349 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

E4-52-1E (hex) Texas Instruments
E4521E (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

18-2C-65 (hex) Texas Instruments
182C65 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243

US

FC-22-F4 (hex) Zyxel Communications Corporation
FC22F4 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu
Taiwan 300
TW

84-DB-A4 (hex) Huawei Device Co., Ltd.
84DBA4 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

24-5C-C5 (hex) Huawei Device Co., Ltd.
245CC5 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

78-D8-40 (hex) Xiaomi Communications Co Ltd
78D840 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

F4-63-FC (hex) vivo Mobile Communication Co., Ltd.
F463FC (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

60-56-7D (hex) AM Telecom co., Ltd.
60567D (base 16) AM Telecom co., Ltd.
#608,YatapLeaders B/D, Jangmi-ro 42, Bundang-gu
Seongnam-si Gyeonggi-do 463-828
KR

EC-74-27 (hex) eero inc.
EC7427 (base 16) eero inc.
660 3rd
Street
San Francisco CA 94107
US

68-E1-DC (hex) BUFFALO.INC
68E1DC (base 16) BUFFALO.INC

AKAMONDORI Bld.,30-20,Ohsu 3-chome,Naka-ku
Nagoya Aichi Pref. 460-8315
JP

B8-3D-FB (hex) Bouffalo Lab (Nanjing) Co., Ltd.
B83DFB (base 16) Bouffalo Lab (Nanjing) Co., Ltd.
5F, Gongxiang Space, No.100 Tuanjie Road, Nanjing, China
Nanjing Jiangsu 211800
CN

54-64-DE (hex) u-blox AG
5464DE (base 16) u-blox AG
Zuercherstrasse 68
Thalwil 8800
CH

38-BC-61 (hex) Starkoff Co., Ltd.
38BC61 (base 16) Starkoff Co., Ltd.
SeoulForest L-Tower #1405, Achasanro 17, Seongdonggu
Seoul Seoul 04789
KR

20-5E-97 (hex) Nokia
205E97 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

04-86-80 (hex) Quectel Wireless Solutions Co.,Ltd.
048680 (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

10-A8-29
(hex) Cisco Systems, Inc
10A829 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E4-60-17 (hex) Intel Corporate
E46017 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

30-F6-EF (hex) Intel Corporate

30F6EF (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

58-6D-67 (hex) Intel Corporate
586D67 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

F0-ED-B8 (hex) SERVERCOM (INDIA) PRIVATE LIMITED
F0EDB8 (base 16) SERVERCOM (INDIA) PRIVATE LIMITED
E-43/1 OKHLA INDUSTRIAL AREA PHASE-II NEW DELHI SOUTH DELHI
NEW DELHI NA
IN

F8-79-99 (hex) Guangdong Jiuzhi Technology Co.,Ltd
F87999 (base 16) Guangdong Jiuzhi Technology Co.,Ltd
Room 3A02, Yihe center, Shiqi District, Zhongshan City, Guangdong Province, China
Zhongshan City Guangdong Province 523000
CN

CC-2A-AC
(hex) Yunjing lntelligent Technology(Dongguan).,Ltd
CC2AAC (base 16) Yunjing lntelligent Technology(Dongguan).,Ltd
Building 7, 4 Xingye Road, Songshan Lake Park, Dongguan city, Guangdong Province
Dongguan 523000
CN

20-40-6A (hex) AMPAK Technology,Inc.
20406A (base 16) AMPAK Technology,Inc.
3F, No.15-1 Zhonghua Road, Hsinchu Industrail Park, Hukou,
Hsinchu Hsinchu,Taiwan R.O.C. 30352
TW

68-D4-0C (hex) TELLESCOM INDUSTRIA E COMERCIO EM TELECOMUNICACAO
68D40C (base 16) TELLESCOM INDUSTRIA E COMERCIO EM TELECOMUNICACAO
Av. Buriti, 1900 – Setor B – Distrito Industrial
Manaus Amazonas 69075-000
BR

24-E3-DE (hex) China Telecom Fufu Information Technology Co., Ltd.
24E3DE (base 16) China Telecom Fufu Information Technology Co., Ltd.
22 Shuitou Road, Doumen
Fuzhou Fujian 350013
CN

18-16-E8 (hex) Siliconware Precision Industries Co., Ltd.
1816E8 (base 16) Siliconware Precision Industries Co.,
Ltd.
No. 123, Sec.3, Da Fong Rd, Tantzu,
Taichung 427
TW

CC-79-D7 (hex) Cisco Systems, Inc
CC79D7 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E4-38-7E (hex) Cisco Systems, Inc
E4387E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

90-AC-3F (hex) BrightSign LLC
90AC3F (base 16) BrightSign LLC
16795 Lark Ave.
Los Gatos CA 95032
US

CC-E6-86 (hex) Samsung Electronics Co.,Ltd
CCE686 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

74-19-0A (hex) Samsung Electronics Co.,Ltd
74190A (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C0-C4-F9 (hex) Qisda Corporation
C0C4F9 (base 16) Qisda Corporation
No. 157, Shanying Rd., Gueishan Dist., Taoyuan City 33341, Taiwan
Taoyuan 33341
TW

80-82-F5 (hex) STMicrolectronics International
NV
8082F5 (base 16) STMicrolectronics International NV
39, Chemin du Champ-des-Filles
Geneva, Plan-les-Quates 1228

CH

5C-AC-3D (hex) Samsung Electronics Co.,Ltd
5CAC3D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F4-F1-9E (hex) Wistron InforComm (Zhongshan) Corporation
F4F19E (base 16) Wistron InforComm (Zhongshan) Corporation
No.38, East Keji Road, Zhongshan Torch Development Zone
Zhongshan Guangdong 528437
CN

10-4C-43 (hex) Fiberhome Telecommunication Technologies Co.,LTD
104C43 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

84-FB-43 (hex) Central Denshi Seigyo
84FB43 (base 16) Central Denshi Seigyo
#913 9th Kanagawa Science Park R&D Business Park building B, 3-2-1 Sakado, Takatsu-ku,
Kawasaki City Kanagawa Prefecture 213-0012
JP

68-6C-E6 (hex) Microsoft Corporation
686CE6
(base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

00-31-26 (hex) Nokia
003126 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

10-98-26 (hex) Nokia
109826 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

C8-70-D4 (hex) IBO Technology Co,Ltd
C870D4 (base 16) IBO Technology Co,Ltd
4F,Block.C,Unis Inforport,Langshan Rd 13,Hi-Tech Industrial Park(North)Nanshan

ShenZhen GuangDong 518000
CN

58-47-CA (hex) IEEE Registration Authority
5847CA (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

64-7C-E8 (hex) Palo Alto Networks
647CE8 (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

28-2B-B9 (hex) Shenzhen Xiongxin Technology Co.,Ltd
282BB9 (base 16) Shenzhen Xiongxin Technology Co.,Ltd
Room 05, 15th Floor, Yihua Financial Technology Building, 3939 Baishi Road, Binhai Community, Yuehai Street, Nanshan District, Shenzhen China
Shenzhen Guangdong 518000
CN

30-1A-BA (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
301ABA (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

7C-E8-7F (hex) Sagemcom Broadband SAS
7CE87F (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

68-87-1C (hex) Motorola Mobility LLC, a Lenovo Company
68871C (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

F8-A4-75 (hex) PT Indoreka Jaya Wutama
F8A475 (base 16) PT Indoreka Jaya Wutama
Tokopedia Tower Ciputra World 2, Jl. Prof. Dr. Satrio No 3, Desa/Kelurahan Karet Semanggi, Kec. Setiabudi, Kota Adm. Jakarta Selatan, Provinsi DKI Jakarta
Jakarta Selatan DKI Jakarta 12950
ID

A4-79-52 (hex) Huawei Device Co., Ltd.

A47952
(base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

B8-7C-D0 (hex) Huawei Device Co., Ltd.
B87CD0 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

D0-7E-01 (hex) Huawei Device Co., Ltd.
D07E01 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

F8-79-07 (hex) Huawei Device Co., Ltd.
F87907 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

00-A0-93 (hex) B/E AEROSPACE, Inc.
00A093 (base 16) B/E AEROSPACE, Inc.
17481 RED HILL
IRVINE CA 92714-5630
US

2C-76-00 (hex) Apple, Inc.
2C7600 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

68-F5-43 (hex) HUAWEI TECHNOLOGIES CO.,LTD
68F543 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2
Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F8-7D-76 (hex) Apple, Inc.
F87D76 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

34-DF-20 (hex) Shenzhen Comstar .Technology Co.,Ltd
34DF20 (base 16) Shenzhen Comstar .Technology Co.,Ltd
4th Floor,Block B,Building 6,Evergrande Fashion Valley, Dalang Street, Longhua District,Shenzhen
Shenzhen Guangdong 518109
CN

F4-1A-B0 (hex) Shenzhen Xingguodu Technology Co., Ltd.
F41AB0 (base 16) Shenzhen Xingguodu Technology Co., Ltd.
18th Floor, Block B, Building 10, Shenzhen Bay Science and Technology Ecological Park, Nanshan District, Shenzhen
Shenzhen Guangdong 518000
CN

70-42-D3 (hex) Ruijie Networks Co.,LTD
7042D3 (base 16) Ruijie Networks Co.,LTD
No. 2, 7th floor, xingwangruijie, haixi hi-tech industrial park, high-tech zone, fuzhou city
Fuzhou Fujian 350002
CN

44-8E-EC (hex) China Mobile Group Device
Co.,Ltd.
448EEC (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

F0-26-F8 (hex) Worldcns Co.,Ltd.
F026F8 (base 16) Worldcns Co.,Ltd.
B-1813 67, Saebitgongwon-ro, Gwangmyeong-si, Gyeonggi-do, Republic of Korea
Gwangmyeong 14348
KR

14-07-08 (hex) CP PLUS GMBH & CO. KG
140708 (base 16) CP PLUS GMBH & CO. KG
Hans Henny Jahnn Weg 9
Hamburg D22085
DE

18-C3-F4 (hex) IEEE Registration Authority
18C3F4 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

14-D4-24 (hex) AzureWave Technology Inc.
14D424 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.

New Taipei City Taiwan 231
TW

68-27-5F (hex) zte corporation
68275F (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

44-41-F0 (hex) zte corporation
4441F0
(base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

88-9C-AD (hex) Cisco Systems, Inc
889CAD (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

D8-83-32 (hex) TaiXin Semiconductor Co., Ltd
D88332 (base 16) TaiXin Semiconductor Co., Ltd
3 Floor Building No 2, Guangwan Bay No.1 Tangjia Town, Zhuhai City
Zhuhai Guangdong 519000
CN

F8-5B-6E (hex) Samsung Electronics Co.,Ltd
F85B6E (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

8C-6A-3B (hex) Samsung Electronics Co.,Ltd
8C6A3B (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

24-11-53 (hex) Samsung Electronics Co.,Ltd
241153 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

44-12-44 (hex) Aruba, a Hewlett Packard Enterprise Company
441244

(base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

14-49-D4 (hex) Xiaomi Communications Co Ltd
1449D4 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

B0-1F-47 (hex) Heights Telecom T ltd
B01F47 (base 16) Heights Telecom T ltd
Moshe Lerer 15
Nes Ziona 7404996
IL

28-29-47 (hex) Chipsea Technologies (Shenzhen) Corp.
282947 (base 16) Chipsea Technologies (Shenzhen) Corp.
3 / F, Block A, Building 2, Shenzhen Bay Innovation Technology Center, No.3156 keyuan South Road, Yuehai Street, Nanshan District, Shenzhen
Shenzhen Guangdong 518000
CN

AC-BC-B5 (hex) Apple, Inc.
ACBCB5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E0-F3-18 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
E0F318 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First
Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

C4-64-F2 (hex) Infinix mobility limited
C464F2 (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

04-18-92 (hex) HUAWEI TECHNOLOGIES CO.,LTD
041892 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

14-65-6A (hex) HUAWEI TECHNOLOGIES CO.,LTD
14656A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

6C-B7-E2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
6CB7E2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-75-EA (hex) HUAWEI TECHNOLOGIES CO.,LTD
C475EA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2
Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

90-25-F2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
9025F2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

AC-B6-87 (hex) Arcadyan Corporation
ACB687 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

50-63-91 (hex) HUAWEI TECHNOLOGIES CO.,LTD
506391 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E8-A3-4E (hex) HUAWEI TECHNOLOGIES CO.,LTD
E8A34E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

38-7C-76 (hex) Universal Global Scientific Industrial Co., Ltd.
387C76 (base 16) Universal Global Scientific Industrial Co., Ltd.
141, Lane 351, Taiping Road, Sec.1,Tsao Tuen

Nan-Tou
Taiwan 54261
TW

E4-A6-34 (hex) Universal Electronics, Inc.
E4A634 (base 16) Universal Electronics, Inc.
201 E. Sandpointe Ave
Santa Ana CA 92707
US

2C-8D-37 (hex) Virtium
2C8D37 (base 16) Virtium
30052 Tomas
Racho Santa MArgarita CA 92688
US

40-FD-F3 (hex) AMPAK Technology,Inc.
40FDF3 (base 16) AMPAK Technology,Inc.
3F, No.15-1 Zhonghua Road, Hsinchu Industrail Park, Hukou,
Hsinchu Hsinchu,Taiwan R.O.C. 30352
TW

94-6D-AE (hex) Mellanox Technologies, Inc.
946DAE (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

08-25-73 (hex) Apple, Inc.
082573 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-00-7A (hex) Apple, Inc.
AC007A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-1F-C7 (hex) Apple, Inc.
F01FC7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

88-20-0D (hex) Apple, Inc.

88200D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

BC-15-41 (hex) Nokia
BC1541 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

EC-E6-1D (hex) Huawei Device Co., Ltd.
ECE61D (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

4C-63-AD (hex) Huawei Device Co., Ltd.
4C63AD (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

DC-DB-27 (hex) Huawei Device Co., Ltd.
DCDB27 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

B8-8F-27 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
B88F27 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China
401120
CN

DC-05-39 (hex) Cisco Systems, Inc
DC0539 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

48-27-E2 (hex) Espressif Inc.
4827E2 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

40-E1-71 (hex) Jiangsu Huitong Group Co.,Ltd.
40E171 (base 16) Jiangsu Huitong Group Co.,Ltd.
No. 24, Block 2, Taohuawu New District
Zhenjiang Jiangsu 212003
CN

18-C3-00 (hex) Nokia
18C300 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

D4-4D-77 (hex) Nokia
D44D77 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

6C-72-4A (hex) Onkyo Technology K.K.
6C724A (base 16) Onkyo Technology K.K.
Lux Building (5th floor),1-1-41 Kawamata
Higashiosaka City Osaka 577-0063
JP

D8-FF-C3 (hex) Shenzhen 3SNIC information technology company Limited
D8FFC3 (base 16) Shenzhen 3SNIC
information technology company Limited
Room 3101, Building 3, Nanshan Zhiyuan Chongwen Park, No.3370, Liuxian Avenue, Fuguang Community, Taoyuan Street, Nanshan District,
Shenzhen Guangdong 518000
CN

E8-EF-05 (hex) MIND TECH INTERNATIONAL LIMITED
E8EF05 (base 16) MIND TECH INTERNATIONAL LIMITED
FLAT E 2/F RIALTO MANSION 183 KING'S RD NORTH POINT HK
Hong Kong 999077
HK

8C-25-5E (hex) VoltServer
8C255E (base 16) VoltServer
42 Ladd St STE 227
East Greenwich RI 02818
US

58-B3-8F (hex) New H3C Technologies Co., Ltd
58B38F (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052

CN

F4-6D-3F (hex) Intel Corporate
F46D3F (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

F0-87-56 (hex) Zyxel Communications Corporation
F08756 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu
Taiwan 300
TW

1C-F8-D0 (hex) Samsung Electronics Co.,Ltd
1CF8D0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

38-86-F7 (hex) Google, Inc.
3886F7 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

F4-22-7A (hex) Guangdong Seneasy Intelligent Technology Co., Ltd.
F4227A (base 16) Guangdong Seneasy Intelligent Technology Co., Ltd.
No. 63, Huitai Industrial Park,
Huizhou City, Guangdong Province 516000
CN

64-0E-6A (hex) SECO-LARM USA Inc
640E6A (base 16) SECO-LARM USA Inc
16842 Millikan
Irvine CA 92606
US

8C-51-09 (hex) IEEE Registration Authority
8C5109 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

68-E1-54 (hex) SiMa.ai
68E154 (base 16) SiMa.ai
226 Airport Parkway, Suite 550

San Jose CA 95110
US

6C-60-D0 (hex) Huawei Device Co., Ltd.
6C60D0 (base
16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

54-3D-92 (hex) WIRELESS-TEK TECHNOLOGY LIMITED
543D92 (base 16) WIRELESS-TEK TECHNOLOGY LIMITED
Room 402 4F, BiaoFan Technology Building, Bao'An Avenue, FuYong Town, Bao'An district, ShenZhen,China
SHENZHEN 518000
CN

68-D9-27 (hex) HUAWEI TECHNOLOGIES CO.,LTD
68D927 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

90-F9-70 (hex) HUAWEI TECHNOLOGIES CO.,LTD
90F970 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-CA-ED (hex) HUAWEI TECHNOLOGIES CO.,LTD
04CAED (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

68-EE-88 (hex) Shenzhen TINNO Mobile Technology Corp.
68EE88 (base
16) Shenzhen TINNO Mobile Technology Corp.
Building, No.33, Xiandong Rd, Xili
Nanshan District, Shenzhen PRC 518053
CN

2C-3B-70 (hex) AzureWave Technology Inc.
2C3B70 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

DC-8D-B7 (hex) ATW TECHNOLOGY, INC.

DC8DB7 (base 16) ATW TECHNOLOGY, INC.
1F, No.236 Ba’ai Street, Shulin District
New Taipei City 23845
TW

E8-AC-23 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E8AC23 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

98-26-AD (hex) Quectel Wireless Solutions Co.,Ltd.
9826AD (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

A4-75-B9 (hex) Samsung Electronics Co.,Ltd
A475B9 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk
730-350
KR

80-54-9C (hex) Samsung Electronics Co.,Ltd
80549C (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F8-5E-0B (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
F85E0B (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

94-D3-31 (hex) Xiaomi Communications Co Ltd
94D331 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

D4-43-0E (hex) Zhejiang Dahua Technology Co., Ltd.
D4430E (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

B8-F0-B9 (hex) zte corporation
B8F0B9 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

4C-9D-22 (hex) ACES
Co.,Ltd
4C9D22 (base 16) ACES Co.,Ltd
TianGong Avenue #916, Tianfu New Area
ChengDu Sichuan Province 610000
CN

88-C9-E8 (hex) Sony Corporation
88C9E8 (base 16) Sony Corporation
Sony City Osaki 2-10-1
Shinagawa-ku Tokyo 141-8610
JP

60-1E-98 (hex) Axevast Technology
601E98 (base 16) Axevast Technology
5F., No. 20, Guanqian Road, Zhongzheng District
Taipei City 100007
TW

A8-F7-D9 (hex) Mist Systems, Inc.
A8F7D9 (base 16) Mist Systems, Inc.
1601 South De Anza Blvd, Suite 248
Cupertino CA 95014
US

44-88-16 (hex) Cisco Systems, Inc
448816 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

5C-8C-30 (hex) Taicang T&W Electronics
5C8C30 (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

34-DD-04 (hex) Minut AB
34DD04 (base 16) Minut AB
Baltzarsgatan 23
Malmö 21136
SE

2C-9D-65 (hex) vivo
Mobile Communication Co., Ltd.
2C9D65 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

80-5B-65 (hex) LG Innotek
805B65 (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

D8-88-63 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D88863 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C0-3E-50 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C03E50 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

80-60-36 (hex) HUAWEI TECHNOLOGIES CO.,LTD
806036 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F8-E4-A4 (hex) Fiberhome Telecommunication Technologies Co.,LTD
F8E4A4 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5
DongXin Road
Wuhan Hubei 430074
CN

B0-38-E2 (hex) Wanan Hongsheng Electronic Co.Ltd
B038E2 (base 16) Wanan Hongsheng Electronic Co.Ltd
1st section of industrial pack,Wan'An County,Ji'An City,jiangxi province
Wanan China/jiangxi 343800
CN

4C-53-69 (hex) YanFeng Visteon(ChongQing) Automotive Electronic Co.,Ltd
4C5369 (base 16) YanFeng Visteon(ChongQing) Automotive Electronic Co.,Ltd
No.8,Gang’an 2nd Road,Jiangbei District,Chongqing,P.R.China

ChongQing ChongQing 400025
CN

A0-C9-8B (hex) Nokia Solutions and Networks GmbH & Co. KG
A0C98B (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541
DE

18-BB-1C (hex) Huawei Device Co., Ltd.
18BB1C (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

70-A9-83 (hex) Cisco Systems, Inc
70A983 (base 16) Cisco Systems, Inc
80 West Tasman
Drive
San Jose CA 94568
US

BC-FA-EB (hex) Cisco Systems, Inc
BCFAEB (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

84-85-53 (hex) Biznes Systema Telecom, LLC
848553 (base 16) Biznes Systema Telecom, LLC
room XXII/1, fl 3, block 3, 6 Barklaya street, Moscow, 121087, Russia
Moscow 121087
RU

B4-7D-76 (hex) KNS Group LLC
B47D76 (base 16) KNS Group LLC
Room 4, Office IV, Floor 4 Rochdelskaya street, 15, b.15 Moscow, 123376 Russia
Moscow 123376
RU

C0-AD-97 (hex) TECNO MOBILE LIMITED
C0AD97 (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

58-00-32 (hex) Genexis B.V.

580032 (base 16) Genexis B.V.
Lodewijkstraat 1A
Eindhoven 5652AC
NL

BC-C7-DA (hex) Earda Technologies co Ltd
BCC7DA (base 16) Earda Technologies
co Ltd
Block A,Lianfeng Creative Park, #2 Jisheng Rd., Nansha District
Guangzhou Guangdong 511455
CN

18-66-F0 (hex) Jupiter Systems
1866F0 (base 16) Jupiter Systems
31015 Huntwood Ave
Hayward CA 94544-7007
US

74-60-4C (hex) RODE
74604C (base 16) RODE
107 Carnarvon St
Silverwater NSW 2128
AU

40-B0-2F (hex) Miele & Cie. KG
40B02F (base 16) Miele & Cie. KG
Carl-Miele-Straße 29
Gütersloh 33332
DE

E0-48-D8 (hex) Guangzhi Wulian Technology(Guangzhou) Co., Ltd
E048D8 (base 16) Guangzhi Wulian Technology(Guangzhou) Co., Ltd
Room 1407, Fuli yingkai building, No. 16, Huaxia Road, Tianhe District,
Guangzhou 510623
CN

1C-59-74 (hex) IEEE Registration Authority
1C5974 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

1C-0D-7D (hex) Apple, Inc.
1C0D7D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

14-F2-87
(hex) Apple, Inc.
14F287 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

58-55-95 (hex) Apple, Inc.
585595 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

28-6F-40 (hex) Tonly Technology Co. Ltd
286F40 (base 16) Tonly Technology Co. Ltd
Section 37, Zhongkai Hi-Tech Development Zone
Huizhou Guangdong 516006
CN

0C-86-C7 (hex) Jabil Circuit (Guangzhou) Limited
0C86C7 (base 16) Jabil Circuit (Guangzhou) Limited
Huangpu 128, JunCheng Road
GuangZhou Guangdong 510530
CN

74-76-7D (hex) shenzhen kexint technology co.,ltd
74767D (base 16) shenzhen kexint technology co.,ltd
5th Floor, Building 2, Chunhu Industrial Park, Dongshen Road, Pinghu Street, Longgang District, Shenzhen City
shenzhen guangdong 518000
CN

14-94-6C (hex) Apple, Inc.
14946C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

24-CF-24 (hex) Beijing Xiaomi
Mobile Software Co., Ltd
24CF24 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

F0-6C-5D (hex) Xiaomi Communications Co Ltd
F06C5D (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085

CN

60-7D-09 (hex) Luxshare Precision Industry Co., Ltd
607D09 (base 16) Luxshare Precision Industry Co., Ltd
2nd floor,A building,Sanyo New Industrial Area,West Area of Maoyi, Shajing Street,Bao'an District
Shenzhen City Guangdong Province 518100
CN

EC-62-60 (hex) Espressif Inc.
EC6260 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

B0-6E-72 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
B06E72 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178
Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

CC-3E-79 (hex) ARRIS Group, Inc.
CC3E79 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

28-F5-D1 (hex) ARRIS Group, Inc.
28F5D1 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

10-E1-77 (hex) ARRIS Group, Inc.
10E177 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

08-EB-F6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
08EBF6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

0C-7B-C8 (hex) Cisco Meraki
0C7BC8 (base 16) Cisco Meraki
500 Terry A. Francois Blvd

San Francisco 94158
US

C8-F0-9E (hex) Espressif Inc.
C8F09E (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

DC-54-75 (hex) Espressif
Inc.
DC5475 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

00-14-01 (hex) Rivertree Networks Corp.
001401 (base 16) Rivertree Networks Corp.
R#304, K-Center, 1591-9
Anyang-si Kyunggi-do 431-815
KR

00-60-68 (hex) Dialogic Corporation
006068 (base 16) Dialogic Corporation
9800 Cavendish Blvd, 5th Floor
Montreal Quebec H4M 2V9
CA

90-D4-73 (hex) vivo Mobile Communication Co., Ltd.
90D473 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

28-82-7C (hex) Bosch Automative products(Suzhou)Co.,Ltd Changzhou Branch
28827C (base 16) Bosch Automative products(Suzhou)Co.,Ltd Changzhou Branch
No.17 Longmen Road
Changzhou JiangSu 213164
CN

18-3C-98 (hex) Shenzhen Hengyi Technology Co., LTD
183C98 (base 16) Shenzhen Hengyi Technology Co., LTD
Floor 5, Zone 1, Block B, Mingyou
Purchasing Center, Baoyuan Road, Xixiang Street
Shenzhen Guangdong 518102
CN

D8-10-68 (hex) Murata Manufacturing Co., Ltd.

D81068 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

5C-04-5A (hex) Company NA Stage & Light
5C045A (base 16) Company NA Stage & Light
Lambertu 9
M?rupe LV-2167
LV

58-C3-56 (hex) EM Microelectronic
58C356 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074
CH

F4-E2-04 (hex) COYOTE SYSTEM
F4E204 (base 16) COYOTE SYSTEM
1, rue Royale
Saint-Cloud 92210
FR

F8-4E-58 (hex) Samsung Electronics Co.,Ltd
F84E58 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

A0-ED-FB (hex) Quectel Wireless Solutions Co.,Ltd.
A0EDFB (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui
District
Shanghai 200233
CN

B0-23-47 (hex) Shenzhen Giant Microelectronics Company Limited
B02347 (base 16) Shenzhen Giant Microelectronics Company Limited
Room 2108, 21 Floor, Building No.1 of Chang Fu Jin Mao Tower, No.5 Shi Hua Road, Futian District
Shenzhen Guangdong 518000
CN

5C-A4-F4 (hex) zte corporation
5CA4F4 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

D4-E0-53 (hex) Aruba, a Hewlett Packard Enterprise Company
D4E053 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

24-6C-60 (hex) Huawei Device Co., Ltd.
246C60 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

64-C5-82 (hex) China Mobile Group Device Co.,Ltd.
64C582 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing
100053
CN

88-FC-5D (hex) Cisco Systems, Inc
88FC5D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F4-C8-8A (hex) Intel Corporate
F4C88A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B4-70-64 (hex) Samsung Electronics Co.,Ltd
B47064 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

4C-2E-5E (hex) Samsung Electronics Co.,Ltd
4C2E5E (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

64-5D-F4 (hex) Samsung Electronics Co.,Ltd
645DF4 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-16-A3 (hex) INGETEAM
0016A3 (base 16) INGETEAM
Parque Tecnologico de Bizkaia, Edificio 110
Zamudio Bizkaia 48170
ES

30-3E-A7 (hex) Intel Corporate
303EA7 (base 16) Intel Corporate
Lot 8, Jalan
Hi-Tech 2/3
Kulim Kedah 09000
MY

CC-DD-58 (hex) Robert Bosch GmbH
CCDD58 (base 16) Robert Bosch GmbH
Mittlerer Pfad 9
Stuttgart 70499
DE

78-71-04 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
787104 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

50-28-4A (hex) Intel Corporate
50284A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

DC-A9-56 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
DCA956 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

88-3F-0C (hex) system a.v. co., ltd.
883F0C (base 16) system a.v. co., ltd.
5-16-1,Aoe,KIta-Ku
Okayama Okayama 700-0941
JP

CC-82-7F (hex) Advantech Technology (CHINA) Co., Ltd.
CC827F (base 16) Advantech Technology (CHINA)
Co., Ltd.
No.666, Han-Pu Rd. Yu-Shan

Kun-Shan Jiang Su 215316
CN

78-AF-08 (hex) Intel Corporate
78AF08 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

5C-C5-63 (hex) HUNAN FN-LINK TECHNOLOGY LIMITED
5CC563 (base 16) HUNAN FN-LINK TECHNOLOGY LIMITED
No.8, Litong Road, Liuyan Economic & Tec
Changsha HUNAN 410329
CN

EC-60-73 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
EC6073 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

68-B6-91 (hex) Amazon Technologies Inc.
68B691 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

48-27-C5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
4827C5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

BC-D2-06 (hex) HUAWEI
TECHNOLOGIES CO.,LTD
BCD206 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-B1-3B (hex) HP Inc.
A8B13B (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

C4-38-75 (hex) Sonos, Inc.
C43875 (base 16) Sonos, Inc.

614 Chapala St
Santa Barbara 93101
US

14-75-5B (hex) Intel Corporate
14755B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

74-DD-CB (hex) China Leadshine Technology Co.,Ltd
74DDCB (base 16) China Leadshine Technology Co.,Ltd
9-11, Building A3, Nanshan Ipark, No.1001 Xueyuan Avenue, Nanshan?
SHENZHEN 518000
CN

10-4D-15 (hex) Viaanix Inc
104D15 (base 16) Viaanix Inc
434 N Main St.
Wichita KS 67202
US

50-A0-15 (hex) Shenzhen Yipingfang Network Technology Co., Ltd.
50A015 (base 16) Shenzhen Yipingfang Network Technology Co., Ltd.
21 / F,
Kangjia R & D building, No.28, Keji South 12th Road, Nanshan District, Shenzhen City, Guangdong Province, China
Shenzhen Nanshan District 518000
CN

AC-33-0B (hex) Japan Computer Vision Corp.
AC330B (base 16) Japan Computer Vision Corp.
6F.Hanzoumon PREX South 2-5-1 Kojimachi.
Chiyoda-ku TOKYO Tokyo 1020083
JP

30-53-C1 (hex) CRESYN
3053C1 (base 16) CRESYN
8-22,Jamwon-dong
Seoul Seocho-Gu #137-902
KR

BC-61-93 (hex) Xiaomi Communications Co Ltd
BC6193 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

3C-5D-29 (hex) Zhejiang Tmall Technology Co., Ltd.
3C5D29 (base 16) Zhejiang Tmall Technology Co., Ltd.
No.969 Wenyi West Road, Wuchang Street, Yuhang District
Hangzhou Zhejiang 310024
CN

68-FC-CA (hex) Samsung Electronics Co.,Ltd
68FCCA (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon
Gyeonggi-Do 16677
KR

6C-D7-19 (hex) Fiberhome Telecommunication Technologies Co.,LTD
6CD719 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

80-01-5C (hex) Synaptics, Inc
80015C (base 16) Synaptics, Inc
1251 McKay Dr.
San Jose CA CA 95131
US

F8-E5-7E (hex) Cisco Systems, Inc
F8E57E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

34-62-B4 (hex) Renesas Electronics (Penang) Sdn. Bhd.
3462B4 (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

B0-AF-F7 (hex) Shenzhen Yipingfang Network Technology Co., Ltd.
B0AFF7 (base 16) Shenzhen Yipingfang Network Technology Co., Ltd.
21 / F, Kangjia R & D building, No.28, Keji South 12th Road, Nanshan District, Shenzhen City, Guangdong Province, China
Shenzhen Nanshan District 518000
CN

CC-EB-18 (hex) OOO
TSS
CCEB18 (base 16) OOO TSS
ul. Borisovskaya, 1

Moscow Moscow 105187
RU

38-5B-44 (hex) Silicon Laboratories
385B44 (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

94-34-69 (hex) Silicon Laboratories
943469 (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

C8-54-A4 (hex) Infinix mobility limited
C854A4 (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

A0-09-2E (hex) zte corporation
A0092E (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

70-85-C4 (hex) Ruijie Networks Co.,LTD
7085C4 (base 16) Ruijie Networks Co.,LTD
No. 2, 7th floor, xingwangruijie, haixi hi-tech industrial park, high-tech zone, fuzhou city
Fuzhou Fujian 350002
CN

88-6F-29
(hex) Pocketbook International SA
886F29 (base 16) Pocketbook International SA
Crocicchio Cortogna 6
Lugano Ticino 6900
CH

BC-22-47 (hex) New H3C Technologies Co., Ltd
BC2247 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

7C-DA-C3 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD

7CDAC3 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

E0-BB-0C (hex) Synertau LLC
E0BB0C (base 16) Synertau LLC
st. 40 let Komsomola, 32G
Yekaterinburg 620092
RU

00-10-E6 (hex) APPLIED INTELLIGENT SYSTEMS, INC.
0010E6 (base 16) APPLIED INTELLIGENT SYSTEMS, INC.
3923 RANCHERO DRIVE
ANN ARBOR MI 48108
US

00-08-13 (hex) Diskbank, Inc.
000813 (base 16) Diskbank, Inc.
3F Focus Building, 725-25
Seoul 135-080
KR

AC-77-B9
(hex) Nanjing Yufei Intelligent Control Technology Co.,LTD
AC77B9 (base 16) Nanjing Yufei Intelligent Control Technology Co.,LTD
Floor 3, Building 3, No.6 xuzhuang Road, Xuanwu District, Nanjing
nanjing 210000
CN

8C-17-B6 (hex) Huawei Device Co., Ltd.
8C17B6 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

B8-2B-68 (hex) Huawei Device Co., Ltd.
B82B68 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

2C-F2-95 (hex) Huawei Device Co., Ltd.
2CF295 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

70-04-1D (hex) Espressif Inc.
70041D (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

88-50-46 (hex) LEAR
885046 (base 16) LEAR
Industriestraße
48
Kronach Bayern 96317
DE

A8-5B-B7 (hex) Apple, Inc.
A85BB7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

74-EF-4B (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
74EF4B (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

44-8C-00 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
448C00 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

18-C2-93 (hex) Laird Connectivity
18C293 (base 16) Laird Connectivity
3F.-1, No.145, Xianzheng 9th Rd.,
Zhubei 30251
TW

00-0A-C2 (hex) Wuhan FiberHome Digital Technology Co.,Ltd.
000AC2 (base 16) Wuhan FiberHome Digital Technology Co.,Ltd.
No.88 YouKeyuan Road,Hongshan District,W
Wuhan Hubei 430074
CN

70-4C-B6 (hex) Shenzhen SuperElectron
Technology Co.,Ltd.
704CB6 (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000

CN

54-9B-49 (hex) NEC Platforms, Ltd.
549B49 (base 16) NEC Platforms, Ltd.
2-3 Kandatsukasamachi
Chiyodaku Tokyo 101-8532
JP

88-25-10 (hex) Aruba, a Hewlett Packard Enterprise Company
882510 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

8C-47-7F (hex) NambooSolution
8C477F (base 16) NambooSolution
613 Room, 171, Magokjungang-ro, Gangseo-gu, Seoul, Republic of Korea
Seoul 07788
KR

48-2E-72 (hex) Cisco Systems, Inc
482E72 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

30-CB-C7 (hex) Cambium Networks Limited
30CBC7 (base 16) Cambium Networks Limited
Unit B2, Linhay Business Park,
Ashburton
Devon TQ13 7UP
GB

24-4C-AB (hex) Espressif Inc.
244CAB (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

78-48-2C (hex) START USA, INC.
78482C (base 16) START USA, INC.
6860 Dallas Pkwy, Ste 200
Plano TX 75024
US

7C-45-D0 (hex) Shenzhen Wewins Wireless Co., ltd
7C45D0 (base 16) Shenzhen Wewins Wireless Co., ltd
17F., Mid Wing, Yuehai Building, Nanhai Road, Nanshan

Shenzhen Guangdong 518057
CN

08-26-AE (hex) IEEE Registration Authority
0826AE (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

74-46-87 (hex) Kingsignal Technology Co., Ltd.
744687 (base 16) Kingsignal Technology Co., Ltd.
Floor 26,Unit B,Block 10,No.1819 Shahexi Road,Shenzhen Bay Eco-Technology Park,Nanshan District
Shenzhen Guangdong 518000
CN

D0-E8-28 (hex) Radiant Industries Incorporated
D0E828 (base 16) Radiant
Industries Incorporated
113 Sierra Street
El Segundo CA 90245
US

10-76-36 (hex) Earda Technologies co Ltd
107636 (base 16) Earda Technologies co Ltd
Block A,Lianfeng Creative Park, #2 Jisheng Rd., Nansha District
Guangzhou Guangdong 511455
CN

E0-41-02 (hex) zte corporation
E04102 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

D8-40-08 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D84008 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

6C-04-7A (hex) HUAWEI TECHNOLOGIES CO.,LTD
6C047A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

6C-55-8D (hex) HUAWEI TECHNOLOGIES CO.,LTD
6C558D (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan
523808
CN

E0-FF-F1 (hex) Texas Instruments
E0FFF1 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

A4-2A-95 (hex) D-Link International
A42A95 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

50-E7-B7 (hex) vivo Mobile Communication Co., Ltd.
50E7B7 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

F4-F7-0C (hex) Avang - neterbit
F4F70C (base 16) Avang - neterbit
No 56, 16th St., Ghanbarzadeh St., Beheshti Ave
Tehran Tehran 1533963361
IR

F4-44-2C (hex) Shenzhen SuperElectron Technology Co.,Ltd.
F4442C (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

7C-77-16 (hex) Zyxel Communications Corporation
7C7716
(base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

94-3F-BB (hex) JSC RPC Istok named after Shokin
943FBB (base 16) JSC RPC Istok named after Shokin
Room 65, Floor 2, Building 1, 2A, Vokzalnaya Street
Fryazino Moscow Region 141190
RU

98-B7-85 (hex) Shenzhen 10Gtek Transceivers Co., Limited
98B785 (base 16) Shenzhen 10Gtek Transceivers Co., Limited
Blg 3, COFCO, Liuxian 2nd Road,
Shenzhen Guangdong 518000
CN

48-5A-EA (hex) Fiberhome Telecommunication Technologies Co.,LTD
485AEA (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

84-81-02 (hex) Fiberhome Telecommunication Technologies Co.,LTD
848102 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

54-E0-05 (hex) Fiberhome Telecommunication Technologies Co.,LTD
54E005 (base 16) Fiberhome
Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

04-FF-08 (hex) Huawei Device Co., Ltd.
04FF08 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

20-AF-1B (hex) SteelSeries ApS
20AF1B (base 16) SteelSeries ApS
656 West Randolph, Suite 2E
Chicago IL 60661
US

F0-BE-25 (hex) Dongguan Cannice Precision Manufacturing Co., Ltd.
F0BE25 (base 16) Dongguan Cannice Precision Manufacturing Co., Ltd.
No. 21, Nange West Road, Daojiao Town
Dongguan Guangdong 523170
CN

14-9B-D7 (hex) MULI MUWAI FURNITURE QIDONG CO., LTD
149BD7 (base 16) MULI MUWAI FURNITURE QIDONG CO., LTD
No. 55, Huanghai Road, Qidong High-tech Industrial Development Zone
Qidong Jiangsu 226255
CN

10-B1-DF (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
10B1DF (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22
Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

F4-F6-47 (hex) zte corporation
F4F647 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

E8-81-75 (hex) zte corporation
E88175 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

9C-0B-05 (hex) eero inc.
9C0B05 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

40-F6-BC (hex) Amazon Technologies Inc.
40F6BC (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

DC-97-58 (hex) Sichuan AI-Link Technology Co., Ltd.
DC9758 (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou, Industrial Park
Mianyang Sichuan 622650
CN

00-09-31 (hex) Future Internet, Inc.
000931 (base 16) Future Internet, Inc.
11'th
Floor Samhomoolsan Bldg, B/Bldg, 2
Seoul Kyung-Ki 137-130
KP

EC-DA-59 (hex) New H3C Technologies Co., Ltd
ECDA59 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District

Hangzhou Zhejiang 310052
CN

78-F2-38 (hex) Samsung Electronics Co.,Ltd
78F238 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

64-D0-D6 (hex) Samsung Electronics Co.,Ltd
64D0D6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

EC-65-6E (hex) The Things Industries B.V.
EC656E (base 16) The Things Industries B.V.
Singel 542
Amsterdam Noord-Holland 1017 AZ
NL

5C-49-FA (hex) Shenzhen Guowei Shidai Communication Equipement Co., Ltd
5C49FA (base 16) Shenzhen Guowei Shidai Communication Equipement Co., Ltd
2202, Yili science & Technology Park Workshop, No.596-
2, Dahe Village, Guancheng Community, Guanhu Street, Longhua District,
S
SHENZHEN 518000
CN

78-EB-46 (hex) HUAWEI TECHNOLOGIES CO.,LTD
78EB46 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-16-C8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C416C8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E4-DC-CC (hex) HUAWEI TECHNOLOGIES CO.,LTD
E4DCCC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

3C-A1-61 (hex) HUAWEI TECHNOLOGIES CO.,LTD

3CA161 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A0-83-B4 (hex) HeNet B.V.
A083B4 (base 16) HeNet B.V.
Kalkhofseweg 20
Haps 5443NA
NL

3C-8B-7F (hex) Cisco Systems, Inc
3C8B7F (base 16) Cisco Systems, Inc
80 West Tasman
Drive
San Jose CA 94568
US

6C-E5-C9 (hex) Apple, Inc.
6CE5C9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

74-B7-E6 (hex) Zegna-Daidong Limited
74B7E6 (base 16) Zegna-Daidong Limited
Rooms 14-17, 18/F, Nan Fung Commercial, Centre 19 Lam Lok Street, Kowloon Bay
Hong Kong 999077
HK

00-A4-5F (hex) Huawei Device Co., Ltd.
00A45F (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

FC-E2-6C (hex) Apple, Inc.
FCE26C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

4C-79-75 (hex) Apple, Inc.
4C7975 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

1C-71-25 (hex) Apple, Inc.
1C7125 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

34-FE-77 (hex) Apple, Inc.
34FE77 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C0-F8-7F
(hex) Cisco Systems, Inc
C0F87F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

5C-8E-8B (hex) Shenzhen Linghai Electronics Co.,Ltd
5C8E8B (base 16) Shenzhen Linghai Electronics Co.,Ltd
310, Building D, Shenzhen Zhihui Innovation Center, Hangcheng Industrial Zone, Taoyuan Community, Xixiang Street, Bao'an District
Shenzhen Guangdong Province 518000
CN

58-7D-B6 (hex) Northern Data AG
587DB6 (base 16) Northern Data AG
An der Welle 3
Frankfurt am Main Hessen 60322
DE

90-75-BC (hex) Nokia Shanghai Bell Co., Ltd.
9075BC (base 16) Nokia Shanghai Bell Co., Ltd.
No.388 Ning Qiao Road,Jin Qiao Pudong Shanghai
Shanghai 201206
CN

4C-53-FD (hex) Amazon Technologies Inc.
4C53FD (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

9C-05-67 (hex) Honor Device Co., Ltd.
9C0567 (base 16) Honor Device Co., Ltd.
A1701, Block AB, Building

1, Tianan Yungu Phase I, Gangtou Community, Bantian Street
Shenzhen Guangdong 518129
CN

14-66-B7 (hex) Advanced Design Technology Pty Ltd
1466B7 (base 16) Advanced Design Technology Pty Ltd
GPO Box 2808
Canberra City ACT 2601
AU

94-94-4A (hex) Particle Industries Inc.
94944A (base 16) Particle Industries Inc.
548 Market St PMB 34833
San Francisco CA 94104
US

2C-A3-27 (hex) Oraimo Technology Limited
2CA327 (base 16) Oraimo Technology Limited
RMS 05-15?13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HONG KONG HONG KONG 999077
HK

10-AE-A5 (hex) Duskrise inc.
10AEA5 (base 16) Duskrise inc.
Empire State Building 350 Fifth Avenue 41st Floor
new york NY 10118
US

B0-8B-92 (hex) zte corporation
B08B92 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

08-C8-C2 (hex) GN Audio
A/S
08C8C2 (base 16) GN Audio A/S
Lautrupbjerg 7
Ballerup DK-2750
DK

18-58-80 (hex) Arcadyan Corporation
185880 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

B8-F2-55 (hex) Universal Electronics, Inc.
B8F255 (base 16) Universal Electronics, Inc.
201 E. Sandpointe Ave
Santa Ana CA 92707
US

04-79-75 (hex) Honor Device Co., Ltd.
047975 (base 16) Honor Device Co., Ltd.
A1701, Block AB, Building 1, Tianan Yungu Phase I, Gangtou Community, Bantian Street
Shenzhen Guangdong 518129
CN

70-FD-88 (hex) Nanjing Jiahao Technology Co., Ltd.
70FD88 (base 16) Nanjing Jiahao Technology Co., Ltd.
Moling Industrial Park, Development Zone, Jiangning, Nanjing
Nanjing Jiangsu 211111
CN

98-19-2C (hex) Edgecore Networks Corporation
98192C (base 16) Edgecore Networks Corporation
1 Creation RD 3.
Hsinchu 30077
TW

08-00-04 (hex) CROMEMCO
INCORPORATED
080004 (base 16) CROMEMCO INCORPORATED
280 BERNARDO AVENUE
MOUNTAIN VIEW CA 94043
US

FC-77-7B (hex) Hitron Technologies. Inc
FC777B (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

14-17-2A (hex) Fiberhome Telecommunication Technologies Co.,LTD
14172A (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

00-5F-BF (hex) Toshiba Corp.
005FBF (base 16) Toshiba Corp.
1-1 Shibaura 1-Chome, Minato-Ku
Tokyo 105-8001
JP

D4-05-DE (hex) eero inc.
D405DE (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

FC-0F-E7 (hex) Microchip Technology Inc.
FC0FE7 (base 16) Microchip Technology Inc.
2355 W. Chandler Blvd.
Chandler AZ 85224
US

C8-5C-CC (hex) Beijing Xiaomi Mobile Software Co., Ltd
C85CCC (base 16) Beijing
Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

78-9F-AA (hex) Huawei Device Co., Ltd.
789FAA (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E8-A7-2F (hex) Microsoft Corporation
E8A72F (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

00-00-56 (hex) DR. B. STRUCK
000056 (base 16) DR. B. STRUCK
POB 1147 BAECKERBARG 6
W-GERMANY
DE

78-21-84 (hex) Espressif Inc.
782184 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

30-83-D2 (hex) Motorola Mobility LLC, a Lenovo Company
3083D2 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654

US

AC-50-DE (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
AC50DE
(base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

00-DD-B6 (hex) New H3C Technologies Co., Ltd
00DDB6 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

E0-7E-5F (hex) Renesas Electronics (Penang) Sdn. Bhd.
E07E5F (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

38-BE-AB (hex) AltoBeam (China) Inc.
38BEAB (base 16) AltoBeam (China) Inc.
B808, Tsinghua Tongfang Hi-Tech Plaza, Haidian
Beijing Beijing 100083
CN

AC-8B-6A (hex) China Mobile IOT Company Limited
AC8B6A (base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area
Chongqing Chongqing 401336
CN

B8-9E-A6 (hex) SPBEC-MINING CO.LTD
B89EA6 (base 16) SPBEC-MINING CO.LTD
st.
Kokkolevskaya, building 1/1
St. Petersburg 196140
RU

38-38-4B (hex) vivo Mobile Communication Co., Ltd.
38384B (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

48-73-CB (hex) Tiinlab Corporation
4873CB (base 16) Tiinlab Corporation

No. 3333, Liuxian Avenue, Tower A, 32th Floor, Tanglang City, Nanshan District
Shenzhen Guangdong 518055
CN

34-13-43 (hex) GE Lighting
341343 (base 16) GE Lighting
1975 Noble Rd
East Cleveland OH 44112
US

0C-DD-EF (hex) Nokia Corporation
0CDDEF (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

5C-96-66 (hex) Sony Interactive Entertainment Inc.
5C9666 (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

88-23-1F (hex) Fibocom Wireless Inc.
88231F (base 16) Fibocom Wireless Inc.
1101,Tower A, Building 6, Shenzhen International
Innovation Valley, Dashi 1st Rd, Nanshan
Shenzhen Guangdong 518055
CN

A4-DE-26 (hex) Sumitomo Electric Industries, Ltd
A4DE26 (base 16) Sumitomo Electric Industries, Ltd
1-1-3, Shimaya, Konohana-ku
Osaka 554-0024
JP

30-7B-C9 (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
307BC9 (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268? Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

04-68-65 (hex) Apple, Inc.
046865 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

DC-53-92 (hex) Apple, Inc.

DC5392 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

1C-B3-C9 (hex) Apple, Inc.
1CB3C9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

FC-AA-81 (hex) Apple, Inc.
FCAA81 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

30-1A-30 (hex) Mako Networks Ltd
301A30
(base 16) Mako Networks Ltd
1355 North Maclean Blvd
Elgin IL 60123
US

C4-8B-A3 (hex) Cisco Meraki
C48BA3 (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco 94158
US

BC-6E-E2 (hex) Intel Corporate
BC6EE2 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

24-12-81 (hex) China Mobile Group Device Co.,Ltd.
241281 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

50-C0-F0 (hex) Artek Microelectronics Co.,Ltd.
50C0F0 (base 16) Artek Microelectronics Co.,Ltd.
202,NO.1 Building,Software Park,KeJiZhongEr Road,GaoXinQu,NanShan,
Shenzhen Guangdong 518057
CN

B4-AE-2B (hex) Microsoft
B4AE2B (base 16) Microsoft
1 Microsoft Way
Redmond Washington 98052
US

7C-72-6E (hex) Ericsson AB
7C726E (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

60-93-16
(hex) Apple, Inc.
609316 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

64-6D-2F (hex) Apple, Inc.
646D2F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C0-F9-D2 (hex) arkona technologies GmbH
C0F9D2 (base 16) arkona technologies GmbH
Im Leuschnerpark 4
Griesheim Hessen 64347
DE

14-0A-29 (hex) Tiinlab Corporation
140A29 (base 16) Tiinlab Corporation
No. 3333, Liuxian Avenue, Tower A, 32th Floor, Tanglang City, Nanshan District
Shenzhen Guangdong 518055
CN

F4-70-0C (hex) IEEE Registration Authority
F4700C (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

D4-EE-DE (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
D4EEDE (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

C0-8B-05 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C08B05
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

24-CE-33 (hex) Amazon Technologies Inc.
24CE33 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

54-9F-06 (hex) Nokia Shanghai Bell Co., Ltd.
549F06 (base 16) Nokia Shanghai Bell Co., Ltd.
No.388 Ning Qiao Road,Jin Qiao Pudong Shanghai
Shanghai 201206
CN

68-A8-78 (hex) GeoWAN Pty Ltd
68A878 (base 16) GeoWAN Pty Ltd
Level 17, 31 Queen Street
Melbourne Victoria 3000
AU

40-9B-21 (hex) Nokia
409B21 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

94-B3-4F (hex) Ruckus Wireless
94B34F (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

38-A9-1C (hex) New H3C Technologies Co., Ltd
38A91C (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang
310052
CN

B0-1C-0C (hex) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
B01C0C (base 16) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
Unit East Block22-24/F,Skyworth semiconductor design Bldg., Gaoxin Ave.4.S.,Nanshan District,Shenzhen,China

SHENZHEN GUANGDONG 518057
CN

68-40-3C (hex) Fiberhome Telecommunication Technologies Co.,LTD
68403C (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

90-3E-7F (hex) Fiberhome Telecommunication Technologies Co.,LTD
903E7F (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

14-C0-A1 (hex) UCloud Technology Co., Ltd.
14C0A1 (base 16) UCloud Technology Co., Ltd.
Building 10#B, LongChangRoad 619
ShangHai 200093
CN

C0-36-53 (hex) eero inc.
C03653 (base 16) eero inc.
660 3rd Street
San Francisco 94107
US

94-02-30 (hex) Logitech
940230
(base 16) Logitech
7700 Gateway Blvd
Newark CA 94560
US

E0-9D-13 (hex) Samsung Electronics Co.,Ltd
E09D13 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

DC-0E-96 (hex) Palo Alto Networks
DC0E96 (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

30-C6-F7 (hex) Espressif Inc.
30C6F7 (base 16) Espressif Inc.

Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

4C-44-5B (hex) Intel Corporate
4C445B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C8-CA-79 (hex) Ciena Corporation
C8CA79 (base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

68-E4-78 (hex) Qingdao Haier Technology Co.,Ltd
68E478 (base 16) Qingdao Haier Technology Co.,Ltd
Building A01,Haier Information Park, No.1 Haier Road,
Qingdao Shandong 266101
CN

08-02-05
(hex) HUAWEI TECHNOLOGIES CO.,LTD
080205 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-20-84 (hex) zte corporation
042084 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

B4-5F-84 (hex) zte corporation
B45F84 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

00-DF-1D (hex) Cisco Systems, Inc
00DF1D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A0-0F-37 (hex) Cisco Systems, Inc

A00F37 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

78-72-64 (hex) IEEE Registration Authority
787264 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

10-97-BD (hex) Espressif Inc.
1097BD
(base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

38-7A-0E (hex) Intel Corporate
387A0E (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

94-60-D5 (hex) Aruba, a Hewlett Packard Enterprise Company
9460D5 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

9C-C2-C4 (hex) Inspur Electronic Information Industry Co.,Ltd.
9CC2C4 (base 16) Inspur Electronic Information Industry Co.,Ltd.
No 224 Shanda Road
Jinan Shandong 250013
CN

AC-80-D6 (hex) Hexatronic AB
AC80D6 (base 16) Hexatronic AB
Exportgatan 47B
Gothenburg 42246
SE

DC-E5-5B (hex) Google, Inc.
DCE55B (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

4C-B9-EA (hex) iRobot Corporation
4CB9EA (base 16) iRobot Corporation
8 Crosby Drive
Bedford
MA 01730
US

90-35-EA (hex) Silicon Laboratories
9035EA (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

FC-A8-4A (hex) Sentinum GmbH
FCA84A (base 16) Sentinum GmbH
Fuerther Str. 246b
Nuremberg 90429
DE

78-67-0E (hex) Wistron Neweb Corporation
78670E (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C. 308
TW

30-4F-00 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
304F00 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

64-32-16 (hex) Weidu Technology (Beijing) Co., Ltd.
643216 (base 16) Weidu Technology (Beijing) Co., Ltd.
1129-106, 11F, No.18 Zhongguancun Street, Haidian District,
Beijing 100080
CN

1C-5E-E6 (hex) SHENZHEN TWOWING TECHNOLOGIES CO.,LTD.
1C5EE6 (base 16) SHENZHEN TWOWING TECHNOLOGIES CO.,LTD.
Nangang
Industrial Building, Tangtou Industrial Park, Shiyan, Baoan
Shenzhen Guangdong 518108
CN

34-6F-24 (hex) AzureWave Technology Inc.
346F24 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231

TW

DC-91-66 (hex) Huawei Device Co., Ltd.
DC9166 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

70-11-35 (hex) Livesecu co., Ltd
701135 (base 16) Livesecu co., Ltd
9F/925, Anyang SK V1 Center, 25-32, LS-ro 116beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do
anyang city Gyeonggi-do 14118
KR

C0-6B-55 (hex) Motorola Mobility LLC, a Lenovo Company
C06B55 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

DC-84-E9 (hex) Shenzhen Qihoo Intelligent Technology Co.,Ltd
DC84E9 (base 16) Shenzhen Qihoo Intelligent Technology Co.,Ltd
Building A2, Chi Yuen
Technology Park, 1001 College Avenue, Nanshan District, Shenzhen, P.R.C.
Shenzhen Guangdong 518000
CN

B8-94-E7 (hex) Xiaomi Communications Co Ltd
B894E7 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

34-B9-8D (hex) Xiaomi Communications Co Ltd
34B98D (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

D8-1F-12 (hex) Tuya Smart Inc.
D81F12 (base 16) Tuya Smart Inc.
160 Greentree Drive, Suite 101
Dover DE 19904
US

20-4B-22 (hex) Sunnovo International Limited
204B22 (base 16) Sunnovo International Limited
1717 Haitai Building

Beijing Beijing 100083
CN

C8-1C-FE (hex) Zebra Technologies Inc.
C81CFE (base 16) Zebra Technologies Inc.
ONE ZEBRA PLAZA
HOLTSVILLE NY 11742
US

B0-6A-41 (hex) Google, Inc.
B06A41 (base
16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

1C-ED-6F (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
1CED6F (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

34-84-E4 (hex) Texas Instruments
3484E4 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

AC-4D-16 (hex) Texas Instruments
AC4D16 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

B0-10-A0 (hex) Texas Instruments
B010A0 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

F0-70-4F (hex) Samsung Electronics Co.,Ltd
F0704F (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

AC-6C-90 (hex) Samsung Electronics Co.,Ltd
AC6C90 (base 16) Samsung Electronics Co.,Ltd

#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

90-B6-22 (hex) Samsung
Electronics Co.,Ltd
90B622 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

0C-02-BD (hex) Samsung Electronics Co.,Ltd
0C02BD (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

2C-D1-DA (hex) Keysight Technologies, Inc.
2CD1DA (base 16) Keysight Technologies, Inc.
2800 Woodlawn Drive, #271
Honolulu Hawaii 96822
US

C4-FC-EF (hex) SambaNova Systems, Inc.
C4FCEF (base 16) SambaNova Systems, Inc.
2100 Geng Rd #103
Palo Alto 94303
US

6C-3C-7C (hex) CANON INC.
6C3C7C (base 16) CANON INC.
30-2 Shimomaruko 3-chome,
Ohta-ku Tokyo 146-8501
JP

C4-D7-FD (hex) Bouffalo Lab (Nanjing) Co., Ltd.
C4D7FD (base 16) Bouffalo Lab (Nanjing) Co., Ltd.
5F, Gongxiang Space, No.100 Tuanjie Road, Nanjing, China
Nanjing Jiangsu 211800
CN

A4-1A-3A (hex) TP-LINK TECHNOLOGIES CO.,LTD.
A41A3A (base 16) TP-LINK
TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

B4-AC-8C (hex) Bern University of Applied Sciences
B4AC8C (base 16) Bern University of Applied Sciences
Dammweg 3
Bern Bern 3013
CH

BC-CE-25 (hex) Nintendo Co.,Ltd
BCCE25 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

A0-9F-7A (hex) D-Link Middle East FZCO
A09F7A (base 16) D-Link Middle East FZCO
PIot No.S31102, PO Box:18224, Jebel Ali Free Zone,Dubai,UAE
Dubai 18224
AE

B4-20-46 (hex) eero inc.
B42046 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

E8-6E-44 (hex) zte corporation
E86E44 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

00-E7-E3 (hex) zte corporation
00E7E3 (base 16) zte
corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

9C-54-C2 (hex) New H3C Technologies Co., Ltd
9C54C2 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

78-E9-CF (hex) TELLESCOM INDUSTRIA E COMERCIO EM TELECOMUNICACAO
78E9CF (base 16) TELLESCOM INDUSTRIA E COMERCIO EM TELECOMUNICACAO
Av. Buriti, 1900 – Setor B – Distrito Industrial
Manaus Amazonas 69075-000
BR

50-7B-9D (hex) LCFC(HeFei) Electronics Technology co., ltd
507B9D (base 16) LCFC(HeFei) Electronics Technology co., ltd
YunGu Road 3188-1
Hefei Anhui 230000
CN

28-D2-44 (hex) LCFC(HeFei) Electronics Technology co., ltd
28D244 (base 16) LCFC(HeFei) Electronics Technology co., ltd
6 Cui Wei Road
Hefei Anhui 230000
CN

00-0D-67 (hex) Ericsson
000D67 (base 16) Ericsson
349 Terry Fox Drive
Kanata Ottawa K2K
2V6
CA

24-D7-EB (hex) Espressif Inc.
24D7EB (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

FC-1D-2A (hex) vivo Mobile Communication Co., Ltd.
FC1D2A (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

90-09-D0 (hex) Synology Incorporated
9009D0 (base 16) Synology Incorporated
9F., No.1, Yuandong Rd., Banqiao Dist.,
New Taipei City 220632
TW

A0-D0-5B (hex) Samsung Electronics Co.,Ltd
A0D05B (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

04-D4-42 (hex) GUANGDONG GENIUS TECHNOLOGY CO., LTD.
04D442 (base 16) GUANGDONG GENIUS TECHNOLOGY CO., LTD.
No.168, Middle Road Of East Gate
Xiaobian Community Chang'an Town 523851

CN

54-6F-71 (hex) uAvionix Corporation
546F71 (base 16) uAvionix Corporation
300 Pine Needle
Lane
Bigfork MT 59911
US

54-EF-33 (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
54EF33 (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268? Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

1C-05-B7 (hex) Chongqing Trantor Technology Co., Ltd.
1C05B7 (base 16) Chongqing Trantor Technology Co., Ltd.
No.69,Huoju Avenue,Jiulongpo District.
Chongqing Chongqing 400050
CN

64-5A-36 (hex) Apple, Inc.
645A36 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

6C-71-D2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
6C71D2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F8-00-A1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F800A1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D8-76-AE (hex) HUAWEI TECHNOLOGIES
CO.,LTD
D876AE (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

0C-84-08 (hex) HUAWEI TECHNOLOGIES CO.,LTD
0C8408 (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

44-48-B9 (hex) MitraStar Technology Corp.
4448B9 (base 16) MitraStar Technology Corp.
No. 6, Innovation Road II,
Hsinchu 300
TW

14-19-73 (hex) Beijing Yunyi Times Technology Co.,Ltd
141973 (base 16) Beijing Yunyi Times Technology Co.,Ltd
Room 4046, Building 1, Yard 10, Beiqijia Hongfu, Changping District
Beijing 102209
CN

20-32-C6 (hex) Apple, Inc.
2032C6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

5C-52-30 (hex) Apple, Inc.
5C5230 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

5C-75-C6 (hex) China Mobile Group Device Co.,Ltd.
5C75C6
(base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

80-D2-E5 (hex) Nintendo Co.,Ltd
80D2E5 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

70-66-E1 (hex) dnt Innovation GmbH
7066E1 (base 16) dnt Innovation GmbH
Maiburger Straße 29
Leer 26789
DE

F8-CE-72 (hex) Wistron Corporation

F8CE72 (base 16) Wistron Corporation
NO.5, HSIN AN ROAD, SCIENCE-BASED INDUSTRIAL PARK, HSINCHU, TAIWAN, R.O.C.
Hsinchu County Taiwan 303036
TW

CC-9D-A2 (hex) Eltex Enterprise Ltd.
CC9DA2 (base 16) Eltex Enterprise Ltd.
Okruzhnaya st. 29v
Novosibirsk 630020
RU

B4-37-D8 (hex) D-Link (Shanghai) Limited Corp.
B437D8 (base 16) D-Link (Shanghai) Limited Corp.
Room 612, Floor 6, No.88, Taigu Road,
Shanghai 200131
CN

00-0A-02 (hex) ANNSO CO., LTD.
000A02 (base 16) ANNSO
CO., LTD.
5F, No. 100, Min-Chuan Road, Shing-Tien
Shing-Tien City Taipei Hsien Taiwan 221
TW

00-0F-E5 (hex) MERCURY SECURITY CORPORATION
000FE5 (base 16) MERCURY SECURITY CORPORATION
2355 MIRA MAR AVE.
LONG BEACH CA 90815
US

74-76-5B (hex) Quectel Wireless Solutions Co.,Ltd.
74765B (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

9C-D5-7D (hex) Cisco Systems, Inc
9CD57D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

58-BF-25 (hex) Espressif Inc.
58BF25 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

94-1F-3A (hex) Ambiq
941F3A (base 16) Ambiq
6500 River Place Blvd., Building 7, Suite 200
Austin TX 78730
US

DC-BB-96 (hex) Full Solution Telecom
DCBB96 (base 16) Full Solution Telecom
Calle
130A #59C-42, Barrio Ciudad Jardin Norte
Bogota Distrito Capital de Bogota 111111
CO

60-53-75 (hex) HUAWEI TECHNOLOGIES CO.,LTD
605375 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

78-DD-33 (hex) HUAWEI TECHNOLOGIES CO.,LTD
78DD33 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A0-31-DB (hex) HUAWEI TECHNOLOGIES CO.,LTD
A031DB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A0-44-5C (hex) HUAWEI TECHNOLOGIES CO.,LTD
A0445C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

64-6D-4E (hex) HUAWEI TECHNOLOGIES CO.,LTD
646D4E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake
Technology Park
Dongguan 523808
CN

08-5C-1B (hex) HUAWEI TECHNOLOGIES CO.,LTD
085C1B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

50-9A-88 (hex) HUAWEI TECHNOLOGIES CO.,LTD
509A88 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B8-3B-CC (hex) Xiaomi Communications Co Ltd
B83BCC (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

D0-9C-AE (hex) vivo Mobile Communication Co., Ltd.
D09CAE (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

88-D1-99 (hex) Vencer Co., Ltd.
88D199 (base 16) Vencer Co., Ltd.
14F-12, No. 79, Section 1, Hsin Tai Wu Road, Hsi-Chih District,
New Taipei City Taiwan 22101
TW

20-41-81
(hex) ESYSE GmbH Embedded Systems Engineering
204181 (base 16) ESYSE GmbH Embedded Systems Engineering
Ruth-Niehaus Str. 8
Meerbusch Nordrhein-Westfalen 40667
DE

D4-86-60 (hex) Arcadyan Corporation
D48660 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

CC-E2-36 (hex) Hangzhou Yaguan Technology Co. LTD
CCE236 (base 16) Hangzhou Yaguan Technology Co. LTD
33rd Floor, T4 US Center, European and American Financial City, Yuhang District, Hangzhou, Zhejiang
Hangzhou Zhejiang 311100
CN

50-6F-0C (hex) Sagemcom Broadband SAS
506F0C (base 16) Sagemcom Broadband SAS
250, route de l'Empereur

Rueil Malmaison Cedex hauts de seine 92848
FR

08-E7-E5 (hex) Huawei Device Co., Ltd.
08E7E5 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

48-73-97 (hex) New H3C Technologies Co., Ltd
487397 (base
16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

40-40-6C (hex) Icomera
40406C (base 16) Icomera
Odinsgatan 28
Gothenburg 411 03
SE

30-3F-BB (hex) Hewlett Packard Enterprise
303FBB (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

70-1F-0B (hex) WILOGY SRL
701F0B (base 16) WILOGY SRL
VIA BOSCO SNC
VEGLIE Lecce 73010
IT

A0-18-42 (hex) Comtrend Corporation
A01842 (base 16) Comtrend Corporation
3F-1, 10 Lane 609, Chongxin Road, Section 5,
New Taipei City, Taiwan 24159
TW

48-18-8D (hex) WEIFANG GOERTEK ELECTRONICS CO.,LTD
48188D (base 16) WEIFANG GOERTEK ELECTRONICS CO.,LTD
Gaoxin 2 Road, Free Trade Zone,Weifang,Shandong,261205,P.R.China
Weifang Shandong 261205
CN

80-FB-F1 (hex) Freescale Semiconductor (China) Ltd.
80FBF1 (base 16) Freescale Semiconductor (China) Ltd.

15#,Xing
Hua Road, Xi Qing Economic Technology Development Area
Tianjin 300385
CN

38-D5-7A (hex) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
38D57A (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

74-5D-43 (hex) BSH Hausgeraete GmbH
745D43 (base 16) BSH Hausgeraete GmbH
Im Gewerbepark B10
Regensburg 93059
DE

7C-87-CE (hex) Espressif Inc.
7C87CE (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

8C-81-72 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
8C8172 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

1C-93-C4 (hex) Amazon Technologies Inc.
1C93C4 (base 16) Amazon Technologies Inc.
P.O Box
8102
Reno NV 89507
US

AC-49-DB (hex) Apple, Inc.
AC49DB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

44-F0-9E (hex) Apple, Inc.
44F09E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

08-FF-44 (hex) Apple, Inc.
08FF44 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

18-56-C3 (hex) Apple, Inc.
1856C3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

68-81-E0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
6881E0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

4C-D6-29 (hex) HUAWEI TECHNOLOGIES CO.,LTD
4CD629 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F0-C4-78 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F0C478 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road,
Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D8-6D-17 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D86D17 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

7C-1A-C0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
7C1AC0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

44-E5-17 (hex) Intel Corporate
44E517 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-0B-A5 (hex) Quasar Cipta Mandiri, PT
000BA5 (base 16) Quasar Cipta Mandiri, PT
Jl. Palasari 9A
Bandung West Java 40262
ID

70-CD-0D (hex) Intel Corporate
70CD0D (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

5C-0C-E6 (hex) Nintendo Co.,Ltd
5C0CE6 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO
601-8501
JP

54-77-87 (hex) Earda Technologies co Ltd
547787 (base 16) Earda Technologies co Ltd
Block A,Lianfeng Creative Park, #2 Jisheng Rd., Nansha District
Guangzhou Guangdong 511455
CN

B8-8D-12 (hex) Apple, Inc.
B88D12 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-27-04 (hex) Accelerated Concepts, Inc
002704 (base 16) Accelerated Concepts, Inc
1208 E Kennedy Blvd
Tampa FL 33602
US

D0-C2-4E (hex) Samsung Electronics Co.,Ltd
D0C24E (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

34-5B-98 (hex) EM Microelectronic
345B98 (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier Neuchatel 2074

CH

08-00-37 (hex) FUJIFILM Business Innovation Corp.
080037 (base 16) FUJIFILM Business Innovation Corp.
ADVANCED TECH & ENG'G CENTER
Yokohama 220-8668
JP

88-8E-7F (hex) ATOP CORPORATION
888E7F
(base 16) ATOP CORPORATION
ATOP Information Harbor, Jinjialin Experimental Economic Zone, Mianyang City, Sichuan Province, China
Mianyang 621000
CN

04-39-26 (hex) China Dragon Technology Limited
043926 (base 16) China Dragon Technology Limited
B4 Bldg.Haoshan 1st Industry Park,
Shenzhen Guangdong 518104
CN

D0-4D-C6 (hex) Aruba, a Hewlett Packard Enterprise Company
D04DC6 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

00-30-59 (hex) Kontron Europe GmbH
003059 (base 16) Kontron Europe GmbH
Nordstrasse 11/F
LUTERBACH 4542
CH

48-9E-BD (hex) HP Inc.
489EBD (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

00-26-9C (hex) ITUS JAPAN CO. LTD
00269C (base 16) ITUS JAPAN CO. LTD
7F Shinkawa B/D
Chuoku Tokyo 1040033
JP

BC-A3-7F (hex) Rail-Mil Sp. z o.o. Sp. K.
BCA37F (base 16) Rail-Mil Sp. z o.o.

Sp. K.
Kosmatki 82
Warsaw 03-982
PL

50-09-E5 (hex) Drimsys,Inc
5009E5 (base 16) Drimsys,Inc
147, Baumoe-ro
Seocho-gu Seoul 06752
KR

D8-A0-11 (hex) WiZ
D8A011 (base 16) WiZ
Unit 1203-5, 12/F, Tower 1, Enterprise Square, 9 Sheung Yuet Road
Kowloon Bay Hong Kong 0000
HK

28-FA-19 (hex) Shenzhen Jingxun Software Telecommunication Technology Co.,Ltd
28FA19 (base 16) Shenzhen Jingxun Software Telecommunication Technology Co.,Ltd
3/F,A5 Building Zhiyuan Community No.1001,Xueyuan Road Nanshan District
Shenzhen Guangdong 518055
CN

28-DF-EB (hex) Intel Corporate
28DFEB (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

88-FC-A6 (hex) devolo AG
88FCA6 (base 16) devolo AG
Charlottenburger Allee 67
Aachen NRW 52068
DE

B8-D5-6B (hex) Mirka Ltd.
B8D56B (base 16) Mirka Ltd.
Pensalavägen 210
Jeppo 66850
FI

CC-B5-D1 (hex) Beijing
Xiaomi Mobile Software Co., Ltd
CCB5D1 (base 16) Beijing Xiaomi Mobile Software Co., Ltd
The Rainbow City Office Building, 68 Qinghe Middle Street Haidian District
Beijing Beijing 100085
CN

78-D6-DC (hex) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
78D6DC (base 16) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
No.19, Gaoxin 4th Road, Wuhan East Lake High-tech Zone, Wuhan
Wuhan Hubei 430000
CN

0C-43-14 (hex) Silicon Laboratories
0C4314 (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

F4-C0-2F (hex) BlueBite
F4C02F (base 16) BlueBite
230, Simin-daero
Anyang-si Gyeonggi-do 14067
KR

98-F0-83 (hex) HUAWEI TECHNOLOGIES CO.,LTD
98F083 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

8C-64-A2 (hex) OnePlus Technology (Shenzhen) Co., Ltd
8C64A2
(base 16) OnePlus Technology (Shenzhen) Co., Ltd
18C02, 18C03, 18C04 ,18C05,TAIRAN BUILDING,
Shenzhen Guangdong 518000
CN

D0-54-75 (hex) SAVI Controls
D05475 (base 16) SAVI Controls
2420 Tarpley Rd, Suite 205
Carrollton TX 75006
US

50-8A-06 (hex) Tuya Smart Inc.
508A06 (base 16) Tuya Smart Inc.
160 Greentree Drive, Suite 101
Dover DE 19904
US

D4-08-68 (hex) Beijing Lanxum Computer Technology CO.,LTD.
D40868 (base 16) Beijing Lanxum Computer Technology CO.,LTD.
3A Floor,BlockB,Technology Fortune Center,No 8 Xueqing Road,Haidian District,
Beijing Beijing 100192
CN

20-3C-C0 (hex) Beijing Tosee Technology Co., Ltd.
203CC0 (base 16) Beijing Tosee Technology Co., Ltd.
Room S125, 1st Floor, Building 1, No. 9, Keyuan Road, Economic Development Zone, Daxing District
beijing 102600
CN

78-86-B6 (hex) Shenzhen YOUHUA Technology Co., Ltd
7886B6 (base 16) Shenzhen YOUHUA Technology
Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

C4-80-25 (hex) Huawei Device Co., Ltd.
C48025 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

B8-14-5C (hex) Huawei Device Co., Ltd.
B8145C (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C8-9D-18 (hex) Huawei Device Co., Ltd.
C89D18 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

DC-03-98 (hex) LG Innotek
DC0398 (base 16) LG Innotek
26, Hanamsandan 5beon-ro
Gwangju Gwangsan-gu 506-731
KR

A4-78-06 (hex) Cisco Systems, Inc
A47806 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

28-FB-AE (hex) HUAWEI TECHNOLOGIES CO.,LTD
28FBAE (base
16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park

Dongguan 523808
CN

88-A0-BE (hex) HUAWEI TECHNOLOGIES CO.,LTD
88A0BE (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-90-10 (hex) HUAWEI TECHNOLOGIES CO.,LTD
949010 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

9C-DC-71 (hex) Hewlett Packard Enterprise
9CDC71 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

E8-DA-00 (hex) Kivo Technology, Inc.
E8DA00 (base 16) Kivo Technology, Inc.
218 Main Street, Suite #724
Kirkland 98033
US

08-6A-C5 (hex) Intel Corporate
086AC5 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

8C-36-7A (hex) Palo Alto Networks
8C367A (base 16) Palo
Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

6C-FE-54 (hex) Intel Corporate
6CFE54 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

30-A6-12 (hex) ShenZhen Hugsun Technology Co.,Ltd.
30A612 (base 16) ShenZhen Hugsun Technology Co.,Ltd.

413~415 Room, 4/F, No.6 Bldg., TongFuYu Industrial Park, Dalang Street, 518109, Longhua New District,
ShengZhen GuangDong 518109
CN

18-75-32 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
187532 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12, TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

9C-9C-40 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
9C9C40 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12, TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

4C-3B-6C (hex) GARO AB
4C3B6C (base 16) GARO
AB
Södergatan 26
Gnosjö Jönköping 33525
SE

68-DD-D9 (hex) HMD Global Oy
68DDD9 (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

3C-19-5E (hex) Samsung Electronics Co.,Ltd
3C195E (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

5C-C8-E3 (hex) Shintec Hozumi co.ltd.
5CC8E3 (base 16) Shintec Hozumi co.ltd.
neura-machi 3-5-1
Miyoshi Aichi 470-0217
JP

D4-41-65 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
D44165 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12,TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

7C-CC-1F (hex) Sichuan Tianyi Comheart Telecom Co.,LTD

7CCC1F (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12,TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

FC-37-2B (hex) Sichuan Tianyi
Comheart Telecom Co.,LTD
FC372B (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12,TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

24-8B-E0 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
248BE0 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12, TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

5C-4A-1F (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
5C4A1F (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12, TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

54-E0-61 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
54E061 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12, TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

6C-94-66 (hex) Intel Corporate
6C9466 (base 16) Intel
Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

EC-8A-C4 (hex) Amazon Technologies Inc.
EC8AC4 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

78-B8-4B (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
78B84B (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
FL12,TowerB,Tianyi international Hotel,No.2 West Section One, Second Ring Road,
Chengdu Sichuan 610000
CN

1C-FF-59 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
1CFF59 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
No.198,First Section,Snow Mountain Avenue, Jinyuan Town, Dayi County
Chengdu Sichuan 611330
CN

C0-1B-23 (hex) Sichuan Tianyi Comheart Telecom Co.,LTD
C01B23 (base 16) Sichuan Tianyi Comheart Telecom Co.,LTD
NO.198 FIRST SECTION,SNOW MOUNTAIN AVENUE, JINYUAN TOWN, DAYI COUNTY,
CHENGDU SICHUAN 611330
CN

10-38-1F (hex) Sichuan AI-Link Technology Co., Ltd.
10381F (base 16) Sichuan AI-Link
Technology Co., Ltd.
Anzhou, Industrial Park
Mianyang Sichuan 622650
CN

54-14-F3 (hex) Intel Corporate
5414F3 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

EC-B4-E8 (hex) Wistron Mexico SA de CV
ECB4E8 (base 16) Wistron Mexico SA de CV
Baudelio Perez Mucharras #420 Col Paseos de Zaragoza
ciudad Juarez Chihuahua 32550
MX

00-1F-C8 (hex) Up-Today Industrial Co., Ltd.
001FC8 (base 16) Up-Today Industrial Co., Ltd.
7/F., Unify Commercial & Industrial Building
Kowloon
HK

18-BB-41 (hex) Huawei Device Co., Ltd.
18BB41 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

78-18-A8 (hex) Huawei Device Co., Ltd.
7818A8 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808

CN

80-72-64 (hex) Huawei Device Co., Ltd.
807264 (base 16) Huawei
Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E8-F6-54 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E8F654 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

20-87-EC (hex) HUAWEI TECHNOLOGIES CO.,LTD
2087EC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

54-F6-E2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
54F6E2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-50-81 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A85081 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

38-F3-FB (hex) Asperiq
38F3FB (base 16) Asperiq
Finngatan 8
Lund SE-22362
SE

38-AF-D0 (hex) Nevro
38AFD0
(base 16) Nevro
1800 Bridge Pkwy
Redwood City CA 94065
US

3C-7A-C4 (hex) Chemtronics
3C7AC4 (base 16) Chemtronics

junho.hong@chemtronics.co.kr
Bundang-gu Gyeonggi-do 13493
KR

A4-58-02 (hex) SHIN-IL TECH
A45802 (base 16) SHIN-IL TECH
711 HO,DAEMYEONG BELLI ON,10, Gyeongin-ro 53ga-gil, Guro-gu
Seoul KS013
KR

FC-97-A8 (hex) Cricut Inc.
FC97A8 (base 16) Cricut Inc.
10855 South River Front Pkwy Suite 300
South Jordan UT 84095
US

00-A0-0E (hex) NETSCOUT SYSTEMS INC
00A00E (base 16) NETSCOUT SYSTEMS INC
310 Littleton Road
Westford MA 01886
US

60-A4-B7 (hex) TP-Link Corporation Limited
60A4B7 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

50-AE-86 (hex) Linkintec Co., Ltd
50AE86 (base 16) Linkintec Co., Ltd
3rd floor, building A3, phase I, Zhihui Industrial Park,
intersection of Chongqing Road and Yan'an Road, Baohe Economic Development Zone
Hefei City Anhui 230041
CN

60-15-92 (hex) IEEE Registration Authority
601592 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

14-3B-42 (hex) Realfit(Shenzhen) Intelligent Technology Co., Ltd
143B42 (base 16) Realfit(Shenzhen) Intelligent Technology Co., Ltd
Room 201, building a, No.1 Qianwan 1st Road, Shenzhen Hong Kong cooperation zone, Qianhai
Shenzhen Guangdong 518000
CN

8C-D9-D6 (hex) Xiaomi Communications Co Ltd

8CD9D6 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

60-C5-E6 (hex) Skullcandy
60C5E6 (base 16) Skullcandy
6301 N. Landmark Dr.
Park City 84098
US

10-94-97 (hex) Logitech Hong Kong
109497 (base 16) Logitech Hong Kong
Room 1002-1003, 10/F, Tower 1, Cheung Sha Wan Plaza, 833 Cheung
Sha Wan Road, Kowloon, Hong Kong
Hong Kong NA
HK

D4-77-98 (hex) Cisco Systems, Inc
D47798 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

10-C9-CA (hex) Ace Technology Corp.
10C9CA (base 16) Ace Technology Corp.
237, Namdongseo-ro, Namdong-gu
Incheon 21634
KR

BC-FA-B8 (hex) Guangzhou Shiyuan Electronic Technology Company Limited
BCFAB8 (base 16) Guangzhou Shiyuan Electronic Technology Company Limited
No.6, 4th Yunpu Road, Yunpu industry District
Guangzhou Guangdong 510530
CN

EC-02-73 (hex) Aruba, a Hewlett Packard Enterprise Company
EC0273 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

A0-4A-5E (hex) Microsoft Corporation
A04A5E (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

EC-2E-98 (hex) AzureWave Technology Inc.
EC2E98 (base 16) AzureWave Technology Inc.
8F.,
No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

38-F3-AB (hex) LCFC(HeFei) Electronics Technology co., ltd
38F3AB (base 16) LCFC(HeFei) Electronics Technology co., ltd
YunGu Road 3188-1
Hefei Anhui 230000
CN

00-15-E5 (hex) Cheertek Inc.
0015E5 (base 16) Cheertek Inc.
No.2, Du-Sing First Road, Science-Based Industrial Park,
Hsinchu 300
TW

8C-83-FC (hex) Axioma Metering UAB
8C83FC (base 16) Axioma Metering UAB
Veterinaru str. 52
Biruliskes Kaunas district LT-54469
LT

A0-D7-A0 (hex) Huawei Device Co., Ltd.
A0D7A0 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

A4-DA-D4 (hex) Yamato Denki Co.,Ltd.
A4DAD4 (base 16) Yamato Denki Co.,Ltd.
3-2-14,Koyama
Shinagawa-ku,Tokyo 142-0062
JP

F4-B1-C2 (hex) Zhejiang Dahua Technology Co., Ltd.
F4B1C2 (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront
Road
Hangzhou Zhejiang 310053
CN

94-3C-C6 (hex) Espressif Inc.
943CC6 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203

CN

E0-DA-90 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E0DA90 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A4-A4-6B (hex) HUAWEI TECHNOLOGIES CO.,LTD
A4A46B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C0-47-54 (hex) vivo Mobile Communication Co., Ltd.
C04754 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

F0-2F-4B (hex) Apple, Inc.
F02F4B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

40-E6-4B (hex) Apple, Inc.
40E64B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

B4-FA-48 (hex) Apple, Inc.
B4FA48 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

14-09-B4 (hex) zte corporation
1409B4 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

10-10-81 (hex) zte corporation
101081 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China

shenzhen guangdong 518057
CN

80-44-FD (hex) China Mobile (Hangzhou) Information Technology Co., Ltd.
8044FD (base 16) China Mobile (Hangzhou) Information Technology Co., Ltd.
No. 1600 Yuhangtang Road, Wuchang Street, Yuhang District, Hangzhou, Zhejiang
Hangzhou Zhejiang 310000
CN

F4-6A-D7 (hex) Microsoft Corporation
F46AD7 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

48-1F-2D (hex) Shenzhen Jie Shi Lian Industrial Co.,LTD
481F2D (base 16) Shenzhen Jie Shi Lian
Industrial Co.,LTD
6F,C Building,Jinao Industrial Park,Juling Rd,Guanlan Town,Longhua
Shenzhen Guangdong 518000
CN

F8-1A-2B (hex) Google, Inc.
F81A2B (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

CC-88-C7 (hex) Aruba, a Hewlett Packard Enterprise Company
CC88C7 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

F4-A8-0D (hex) Wistron InfoComm(Kunshan)Co.,Ltd.
F4A80D (base 16) Wistron InfoComm(Kunshan)Co.,Ltd.
168# First Avenue,Kunshan Integrated Free Trade Zone,Kunshan,Jiangsu,China
Kunshan Jiangsu 215300
CN

3C-A8-ED (hex) smart light technology
3CA8ED (base 16) smart light technology
172 LSro
Gunpo Gyeonggido 15807
KR

F8-85-F9 (hex) Calix Inc.
F885F9 (base 16) Calix Inc.

2777 Orchard Pkwy
San Jose CA 95131
US

78-CF-F9 (hex) Huawei Device Co., Ltd.
78CFF9 (base 16) Huawei Device
Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

38-B3-F7 (hex) Huawei Device Co., Ltd.
38B3F7 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

84-E9-86 (hex) Huawei Device Co., Ltd.
84E986 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

AC-1F-0F (hex) Texas Instruments
AC1F0F (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

74-D2-85 (hex) Texas Instruments
74D285 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

04-C2-9B (hex) Aura Home, Inc.
04C29B (base 16) Aura Home, Inc.
50 Eldridge Street, Suite 5D
New York NY 10002
US

A8-E8-1E (hex) ATW TECHNOLOGY, INC.
A8E81E (base 16) ATW TECHNOLOGY, INC.
1F, No.236 Ba’ai Street, Shulin District
New Taipei City 23845
TW

1C-87-E3

(hex) TECNO MOBILE LIMITED
1C87E3 (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

20-B7-30 (hex) TeconGroup, Inc
20B730 (base 16) TeconGroup, Inc
3rd Khoroshevskaya str., 20, floor 1, room 112
Moscow 123423
RU

E8-4D-74 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E84D74 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

CC-89-5E (hex) HUAWEI TECHNOLOGIES CO.,LTD
CC895E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

48-88-99 (hex) Shenzhen SuperElectron Technology Co.,Ltd.
488899 (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen
Guangdong 518000
CN

DC-B1-31 (hex) SHENZHEN HUARUIAN TECHNOLOGY CO.,LTD
DCB131 (base 16) SHENZHEN HUARUIAN TECHNOLOGY CO.,LTD
Floo2nd and 3rd floor, building A, Huixin Industrial Park, No.31 Yonghe Road, Heping community, Fuhai street, Bao'an District, Shenzhen, China
Shenzhen Guangdong 518101
CN

8C-73-A0 (hex) Fiberhome Telecommunication Technologies Co.,LTD
8C73A0 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

EC-63-D7 (hex) Intel Corporate
EC63D7 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3

Kulim Kedah 09000
MY

7C-9F-07 (hex) CIG SHANGHAI CO LTD
7C9F07 (base 16) CIG SHANGHAI CO LTD
5th Floor, Building 8 No 2388 Chenhang Road
SHANGHAI 201114
CN

20-3B-69 (hex) vivo Mobile Communication Co., Ltd.
203B69 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

5C-17-20
(hex) Huawei Device Co., Ltd.
5C1720 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

14-85-7F (hex) Intel Corporate
14857F (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

94-E2-3C (hex) Intel Corporate
94E23C (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

98-3F-66 (hex) Wuhan Funshion Online Technologies Co.,Ltd
983F66 (base 16) Wuhan Funshion Online Technologies Co.,Ltd
5th Floor,Financial Port Building A9,No.77 Optical Valley Avenue, East Lake High-Tech Development Zone, Wuhan
Wuhan CN/Hubei 430000
CN

84-3B-10 (hex) LVSWITCHES INC.
843B10 (base 16) LVSWITCHES INC.
F1 building,New light source base Luocun town,Nanhai district
Foshan Guangdong 528000
CN

94-A4-F9 (hex) HUAWEI TECHNOLOGIES CO.,LTD

94A4F9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2
Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

6C-34-91 (hex) HUAWEI TECHNOLOGIES CO.,LTD
6C3491 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

3C-E3-6B (hex) Zhejiang Dahua Technology Co., Ltd.
3CE36B (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

28-5B-0C (hex) Sichuan Jiuzhou Electronic Technology Co., Ltd.
285B0C (base 16) Sichuan Jiuzhou Electronic Technology Co., Ltd.
No. 259, Jiuzhou Road
Mianyang City Sichuan Province 621000
CN

14-89-CB (hex) HUAWEI TECHNOLOGIES CO.,LTD
1489CB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

6C-26-36 (hex) HUAWEI TECHNOLOGIES CO.,LTD
6C2636 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room
R6,Songshan Lake Technology Park
Dongguan 523808
CN

58-56-C2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
5856C2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A0-36-79 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A03679 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B8-D6-F6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B8D6F6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

2C-52-AF (hex) HUAWEI TECHNOLOGIES CO.,LTD
2C52AF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-24-70 (hex) AUROTECH ultrasound AS.
002470 (base 16) AUROTECH ultrasound AS.
Svingen 1
Tydal Sr-Tr N-7590
NO

58-FB-96 (hex) Ruckus Wireless
58FB96
(base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

60-5E-4F (hex) Huawei Device Co., Ltd.
605E4F (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

1C-E6-AD (hex) Huawei Device Co., Ltd.
1CE6AD (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

50-97-07 (hex) Xiamen Paperang Technology Co.,Ltd.
509707 (base 16) Xiamen Paperang Technology Co.,Ltd.
Unit 1702-1703, 17/F, No.55, North Chengyi Road,Xiamen Software Park Phase 3
Xiamen Fujian 361021
CN

AC-23-16 (hex) Mist Systems, Inc.
AC2316 (base 16) Mist Systems, Inc.
1601 South De Anza Blvd, Suite 248
Cupertino CA 95014

US

2C-00-AB (hex) ARRIS Group, Inc.
2C00AB (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

48-68-4A (hex) Intel Corporate
48684A (base 16) Intel
Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

BC-F1-71 (hex) Intel Corporate
BCF171 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

F0-62-5A (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
F0625A (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

14-98-77 (hex) Apple, Inc.
149877 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

88-66-5A (hex) Apple, Inc.
88665A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B0-E5-F9 (hex) Apple, Inc.
B0E5F9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

14-EB-08 (hex) HUAWEI TECHNOLOGIES CO.,LTD
14EB08 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park

Dongguan 523808
CN

B0-16-56
(hex) HUAWEI TECHNOLOGIES CO.,LTD
B01656 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-42-A7 (hex) Jiangsu Huitong Group Co.,Ltd.
A842A7 (base 16) Jiangsu Huitong Group Co.,Ltd.
No. 24, Block 2, Taohuawu New District
Zhenjiang Jiangsu 212003
CN

2C-D2-6B (hex) FN-LINK TECHNOLOGY LIMITED
2CD26B (base 16) FN-LINK TECHNOLOGY LIMITED
A Building,HuiXin industial park,No 31, YongHe road, Fuyong town, Bao'an District
SHENZHEN GUANGDONG 518100
CN

DC-90-20 (hex) RURU TEK PRIVATE LIMITED
DC9020 (base 16) RURU TEK PRIVATE LIMITED
The Canopy , BLOCK A , SECOND FLOOR , UNIT 1B , PARANUR RAILWAY STATION ROAD ,MAHINDRA WORLD CITY,
CHENGALPATTU TAMILNADU 603004
IN

F0-16-28 (hex) Technicolor (China) Technology Co., Ltd.
F01628 (base 16) Technicolor (China) Technology Co., Ltd.
No.A2181,2F,Zhongguancun Dongsheng
Science and Technology Park, Jia No.18, Xueqing Rd., Haidian District
Beijing 100083
CN

B8-8D-F1 (hex) Nanjing BigFish Semiconductor Co., Ltd.
B88DF1 (base 16) Nanjing BigFish Semiconductor Co., Ltd.
7th Floor,Block A, Chuangzhi Building, No.17, Xinghuo Road
Nanjing Jiangsu 210032
CN

6C-4A-74 (hex) AERODISK LLC
6C4A74 (base 16) AERODISK LLC
Obrucheva, 30/1 b1
Moscow Moskva 117485
RU

38-10-F0 (hex) Aruba, a Hewlett Packard Enterprise Company
3810F0 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

F8-8F-07 (hex) Samsung Electronics Co.,Ltd
F88F07 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

40-DE-17 (hex) Shenzhen Lanfeng Times Industrial Co.,Ltd.
40DE17 (base 16) Shenzhen Lanfeng Times Industrial Co.,Ltd.
Introduction Building 6F,71 Xin’an Street, Baoan District
Shenzhen Guangdong 518101
CN

54-A6-DB
(hex) Huawei Device Co., Ltd.
54A6DB (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

84-71-6A (hex) Huawei Device Co., Ltd.
84716A (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

48-8C-63 (hex) Huawei Device Co., Ltd.
488C63 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

70-DD-EF (hex) Huawei Device Co., Ltd.
70DDEF (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

8C-EA-48 (hex) Samsung Electronics Co.,Ltd
8CEA48 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

00-5F-67 (hex) TP-Link Corporation Limited
005F67 (base 16) TP-Link Corporation Limited
Room 901,9/F.New East
Ocean Centre, 9 Science Museum Road
Tsim Sha Tsui Kowloon 999077
HK

BC-F4-5F (hex) zte corporation
BCF45F (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

78-D4-F1 (hex) IEEE Registration Authority
78D4F1 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

A0-62-FB (hex) HISENSE VISUAL TECHNOLOGY CO.,LTD
A062FB (base 16) HISENSE VISUAL TECHNOLOGY CO.,LTD
Qianwangang Road 218
Qingdao Shandong 266510
CN

9C-68-65 (hex) Fiberhome Telecommunication Technologies Co.,LTD
9C6865 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

38-3D-5B (hex) Fiberhome Telecommunication Technologies Co.,LTD
383D5B (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

24-ED-FD (hex) Siemens Canada Limited
24EDFD
(base 16) Siemens Canada Limited
1954 Technology Drive
Peterborough Ontario K9J 6X7
CA

6C-CD-D6 (hex) NETGEAR
6CCDD6 (base 16) NETGEAR
350 East Plumeria Drive

San Jose CA 95134
US

54-07-64 (hex) Huawei Device Co., Ltd.
540764 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

DC-D7-A0 (hex) Huawei Device Co., Ltd.
DCD7A0 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

14-18-C3 (hex) Intel Corporate
1418C3 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D4-EC-AB (hex) vivo Mobile Communication Co., Ltd.
D4ECAB (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

BC-3E-CB (hex) vivo Mobile Communication Co., Ltd.
BC3ECB (base 16) vivo Mobile Communication Co.,
Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

08-79-8C (hex) HUAWEI TECHNOLOGIES CO.,LTD
08798C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B0-BD-1B (hex) Dongguan Liesheng Electronic Co., Ltd.
B0BD1B (base 16) Dongguan Liesheng Electronic Co., Ltd.
F5, Building B, North Block, Gaosheng Tech Park, No. 84 Zhongli Road, Nancheng District, Dongguan Ci
dongguan guangdong 523000
CN

54-DB-A2 (hex) Fibrain
54DBA2 (base 16) Fibrain

Zaczernie 190F
Zaczernie Subcarpathia 36-062
PL

60-55-F9 (hex) Espressif Inc.
6055F9 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

50-3D-C6 (hex) Xiaomi Communications Co Ltd
503DC6 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

54-8A-BA
(hex) Cisco Systems, Inc
548ABA (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1D-1E (hex) KYUSHU TEN CO.,LTD
001D1E (base 16) KYUSHU TEN CO.,LTD
2360 YUNOKIMOTOMACHI
SASEBO-City NAGASAKI Prefecture 857-0115
JP

50-C3-A2 (hex) nFore Technology Co.,Ltd.
50C3A2 (base 16) nFore Technology Co.,Ltd.
5F., No.31, Ln. 258, Ruiguang Rd. Neihu Dist., Taipei City 114, Taiwan
Taipei 114
TW

44-AE-25 (hex) Cisco Systems, Inc
44AE25 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

BC-E7-12 (hex) Cisco Systems, Inc
BCE712 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

CC-CC-81 (hex) HUAWEI TECHNOLOGIES CO.,LTD

CCCC81 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1-4,Huawei Industrial Base,Bantian,Longgang
ShenZhen GuangDong 518129
CN

40-89-A8 (hex) WiredIQ, LLC
4089A8 (base
16) WiredIQ, LLC
1 South School Avenue
sarasota FL 34237
US

3C-20-93 (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
3C2093 (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

34-AF-B3 (hex) Amazon Technologies Inc.
34AFB3 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

E0-29-67 (hex) HMD Global Oy
E02967 (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

98-8B-69 (hex) Shenzhen hylitech Co.,LTD
988B69 (base 16) Shenzhen hylitech Co.,LTD
Room 1001, Tower B, Daulshine Global Science And Technology Center, Hong Lang 2 Road North, Baoan District, Shenzhen 518101, China
shenzhen GuangDong 518109
CN

18-14-6C (hex) Zhejiang Tmall Technology Co., Ltd.
18146C (base 16) Zhejiang Tmall Technology Co., Ltd.
Ali Center,No.3331 Keyuan South RD (Shenzhen bay), Nanshan
District, Shenzhen Guangdong province
Shenzhen GuangDong 518000
CN

68-89-75 (hex) nuoxc
688975 (base 16) nuoxc
92
518173

CN

1C-D1-BA (hex) Fiberhome Telecommunication Technologies Co.,LTD
1CD1BA (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

A8-99-DC (hex) i-TOP DESING TECHNOLOGY CO.,LTD
A899DC (base 16) i-TOP DESING TECHNOLOGY CO.,LTD
301-302,Rongchengda Building,Dabao Road, Bao an District
Shenzhen 518101
CN

64-A1-98 (hex) Huawei Device Co., Ltd.
64A198 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

5C-9A-A1 (hex) Huawei Device Co., Ltd.
5C9AA1 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C0-E3-FB (hex) HUAWEI TECHNOLOGIES CO.,LTD
C0E3FB (base 16) HUAWEI TECHNOLOGIES
CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

68-3F-7D (hex) INGRAM MICRO SERVICES
683F7D (base 16) INGRAM MICRO SERVICES
100 CHEMIN DE BAILLOT
MONTAUBAN 82000
FR

80-4B-50 (hex) Silicon Laboratories
804B50 (base 16) Silicon Laboratories
400 West Cesar Chavez Street
Austin TX 78701
US

2C-07-86 (hex) Huawei Device Co., Ltd.
2C0786 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone

Dongguan Guangdong 523808
CN

A8-6E-4E (hex) Huawei Device Co., Ltd.
A86E4E (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

94-5F-34 (hex) Renesas Electronics (Penang) Sdn. Bhd.
945F34 (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

60-3C-EE (hex) LG Electronics (Mobile Communications)
603CEE (base
16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

2C-4A-11 (hex) Ciena Corporation
2C4A11 (base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

10-2D-31 (hex) Shenzhen Americas Trading Company LLC
102D31 (base 16) Shenzhen Americas Trading Company LLC
1308 Capital Ave.Suite #7
Plano TX 75074
US

30-E2-83 (hex) Texas Instruments
30E283 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

F8-A7-3A (hex) Cisco Systems, Inc
F8A73A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

B8-11-4B (hex) Cisco Systems, Inc
B8114B (base 16) Cisco Systems, Inc

80 West Tasman Drive
San Jose CA 94568
US

94-09-D3 (hex) shenzhen maxtopic technology co.,ltd
9409D3 (base 16) shenzhen maxtopic technology co.,ltd
F3,Building 4, Ji'an Industrial Park, Songbai Blvd
shenzhen guangdong
518108
CN

C4-0B-31 (hex) Apple, Inc.
C40B31 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

78-2E-56 (hex) China Mobile Group Device Co.,Ltd.
782E56 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

30-24-A9 (hex) HP Inc.
3024A9 (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

C4-CB-54 (hex) Fibocom Auto Inc.
C4CB54 (base 16) Fibocom Auto Inc.
5/F,Tower A,Technology Building II,1057# Nanhai Blvd
Shenzhen Guangdong 518054
CN

0C-35-4F (hex) Nokia
0C354F (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

1C-4C-48 (hex) ITEL MOBILE LIMITED
1C4C48 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

10-96-93 (hex) Amazon Technologies Inc.

109693 (base 16) Amazon Technologies
Inc.
P.O Box 8102
Reno NV 89507
US

20-AC-9C (hex) China Telecom Corporation Limited
20AC9C (base 16) China Telecom Corporation Limited
31 Jinrong Street, Xicheng District, Beijing, China
Beijing, China 100033
CN

28-AD-18 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
28AD18 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

24-A4-87 (hex) Huawei Device Co., Ltd.
24A487 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C4-5A-86 (hex) Huawei Device Co., Ltd.
C45A86 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

64-20-E0 (hex) T3 Technology Co., Ltd.
6420E0 (base 16) T3 Technology Co., Ltd.
No.65/113, Chamnan Phenjati, 12A Floor, Rama9 road
Bangkok Bangkok 10310
TH

84-11-C2
(hex) IEEE Registration Authority
8411C2 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

E4-F1-D4 (hex) vivo Mobile Communication Co., Ltd.
E4F1D4 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

5C-C0-A0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
5CC0A0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-F3-52 (hex) HUAWEI TECHNOLOGIES CO.,LTD
04F352 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

EC-A1-D1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
ECA1D1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A4-6D-A4 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A46DA4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2
Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

8C-7A-15 (hex) Ruckus Wireless
8C7A15 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

78-6A-1F (hex) ARRIS Group, Inc.
786A1F (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

24-94-CB (hex) ARRIS Group, Inc.
2494CB (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

90-DE-80 (hex) Shenzhen Century Xinyang Technology Co., Ltd
90DE80 (base 16) Shenzhen Century Xinyang Technology Co., Ltd
3F, North Building, Bantian High-tech industrial Zone, No. 2 of Bell Road
Shenzhen Guangdong 518129

CN

FC-B6-9D (hex) Zhejiang Dahua Technology Co., Ltd.
FCB69D (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

94-F2-BB (hex) Valeo Vision Systems
94F2BB (base 16) Valeo Vision Systems
Dunmore
Road
Tuam Co. Galway H54 Y276
IE

E0-E1-A9 (hex) Shenzhen Four Seas Global Link Network Technology Co., Ltd.
E0E1A9 (base 16) Shenzhen Four Seas Global Link Network Technology Co., Ltd.
Room 607-610, Block B, TAOJINDI Electronic Business Incubation Base
Tenglong Road, Longhua District, Shenzhen Guangdong 518000
CN

AC-67-84 (hex) Google, Inc.
AC6784 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

A8-B0-88 (hex) eero inc.
A8B088 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

18-5B-B3 (hex) Samsung Electronics Co.,Ltd
185BB3 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

9C-5F-B0 (hex) Samsung Electronics Co.,Ltd
9C5FB0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E8-7F-6B (hex) Samsung Electronics Co.,Ltd
E87F6B (base 16) Samsung Electronics

Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

24-30-F8 (hex) Huawei Device Co., Ltd.
2430F8 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C4-3C-EA (hex) BUFFALO.INC
C43CEA (base 16) BUFFALO.INC
AKAMONDORI Bld.,30-20,Ohsu 3-chome,Naka-ku
Nagoya Aichi Pref. 460-8315
JP

6C-14-14 (hex) BUJEON ELECTRONICS Co,.Ltd
6C1414 (base 16) BUJEON ELECTRONICS Co,.Ltd
59, Seonjinan-gil, Sangnok-gu
Ansan-si Gyeonggi-do 15633
KR

1C-EC-72 (hex) Allradio Co., Ltd
1CEC72 (base 16) Allradio Co., Ltd
76, Deokcheon-ro 34beon-gil, Manan-gu
Anyang-si,Gyeonggi-do Republic of Korea 430-803
KR

B0-EC-DD (hex) HUAWEI TECHNOLOGIES CO.,LTD
B0ECDD (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E4-DC-43 (hex) Huawei Device Co., Ltd.
E4DC43 (base 16) Huawei
Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

28-0F-C5 (hex) Beijing Leadsec Technology Co., Ltd.
280FC5 (base 16) Beijing Leadsec Technology Co., Ltd.
Venus Plaza No.21Zhongguancun Software Park,No.8 Dongbeiwang Xilu, Haidian District
Beijing Beijing 100193
CN

48-8B-0A (hex) Cisco Systems, Inc
488B0A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-17-C9 (hex) Samsung Electronics Co.,Ltd
0017C9 (base 16) Samsung Electronics Co.,Ltd
416, Maetan-3Dong, Yeongtong-Gu
Suwon Geyonggi-Do 443-742
KR

64-A2-00 (hex) Xiaomi Communications Co Ltd
64A200 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

70-3A-2D (hex) Shenzhen V-Link Technology CO., LTD.
703A2D (base 16) Shenzhen V-Link Technology CO., LTD.
Room 1803, BaiRuiDa Building,
Bantian Sub-district, LongGang District
Shenzhen GuangDong 518000
CN

B4-BA-12 (hex) China Mobile (Hangzhou) Information Technology Co.,Ltd.
B4BA12 (base 16) China Mobile (Hangzhou) Information Technology Co.,Ltd.
No. 1600 Yuhangtang Road, Wuchang Street, Yuhang District
Hangzhou Zhejiang 311100
CN

5C-F9-FD (hex) Taicang T&W Electronics
5CF9FD (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

80-F5-B5 (hex) Texas Instruments
80F5B5 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

1C-30-08 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
1C3008 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

98-06-3A (hex) Home Control Singapore Pte Ltd
98063A (base 16) Home Control Singapore Pte Ltd
151 Lorong Chuan
Singapore 556741
SG

E0-E0-C2 (hex) China Mobile
Group Device Co.,Ltd.
E0E0C2 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

D4-91-0F (hex) Amazon Technologies Inc.
D4910F (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

1C-45-C2 (hex) Huizhou City Sunsin lntelligent Technology Co.,Ltd
1C45C2 (base 16) Huizhou City Sunsin lntelligent Technology Co.,Ltd
Outside No.6 community, Zhongkai high tech Zone, Huizhou
Huizhou 516000
CN

84-CC-63 (hex) Huawei Device Co., Ltd.
84CC63 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C0-78-31 (hex) Huawei Device Co., Ltd.
C07831 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

EC-7E-91 (hex) ITEL MOBILE LIMITED
EC7E91 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING
NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

C4-FB-AA (hex) HUAWEI TECHNOLOGIES CO.,LTD
C4FBAA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park

Dongguan 523808
CN

AC-DC-CA (hex) HUAWEI TECHNOLOGIES CO.,LTD
ACDCCA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B8-5F-B0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B85FB0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

7C-4E-09 (hex) Shenzhen Skyworth Wireless Technology Co.,Ltd
7C4E09 (base 16) Shenzhen Skyworth Wireless Technology Co.,Ltd
Unit 3A01,Block A Skyworth Building,Gaoxin Ave.I.S.,Nanshan District
Shenzhen Guangdong 518057
CN

6C-1E-D7 (hex) vivo Mobile Communication Co., Ltd.
6C1ED7 (base 16) vivo Mobile Communication
Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

F0-AA-0B (hex) Arra Networks/ Spectramesh
F0AA0B (base 16) Arra Networks/ Spectramesh
9201 Ward Pkwy #101
Kansas City MO 64114
US

94-56-41 (hex) Palo Alto Networks
945641 (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

38-98-E9 (hex) Huawei Device Co., Ltd.
3898E9 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

48-A5-16 (hex) Huawei Device Co., Ltd.
48A516 (base 16) Huawei Device Co., Ltd.

No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

28-DE-65 (hex) Aruba, a Hewlett Packard Enterprise Company
28DE65 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

B0-A6-51 (hex) Cisco Systems, Inc
B0A651 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San
Jose CA 94568
US

18-36-72 (hex) Shaoxing ShunChuang Technology CO.,LTD
183672 (base 16) Shaoxing ShunChuang Technology CO.,LTD
N.O.398 west tongjiang load shangyu
Shaoxing Zhejiang 312300
CN

EC-C3-02 (hex) HUMAX Co., Ltd.
ECC302 (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

98-C9-7C (hex) Shenzhen iComm Semiconductor CO.,LTD
98C97C (base 16) Shenzhen iComm Semiconductor CO.,LTD
Room 601,Block B ,Digital Building,Garden City
Shenzhen No.1079 Nanhai Road,Nanshan District 518067
CN

00-C3-43 (hex) E-T-A Circuit Breakers Ltd
00C343 (base 16) E-T-A Circuit Breakers Ltd
6 Telford Close
Aylesbury Buckinghamshire HP198DG
GB

A0-D0-DC (hex) Amazon Technologies Inc.
A0D0DC (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

14-3F-C3 (hex) SnapAV

143FC3 (base 16) SnapAV
1800 Continental Blvd
Charlotte
NC 28273
US

20-9A-7D (hex) Sagemcom Broadband SAS
209A7D (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

50-C6-8E (hex) Biwin Semiconductor (HK) Company Limted
50C68E (base 16) Biwin Semiconductor (HK) Company Limted
5th/F., Block 4, Tongfuyu Industrial Park, Tanglang, Xili, Nanshan
Shenzhen Guangdong 518055
CN

E4-75-DC (hex) Arcadyan Corporation
E475DC (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

58-20-8A (hex) IEEE Registration Authority
58208A (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

C4-DD-57 (hex) Espressif Inc.
C4DD57 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

64-F5-4E (hex) EM Microelectronic
64F54E (base 16) EM Microelectronic
Rue des Sors 3
Marin-Epagnier
Neuchatel 2074
CH

10-27-79 (hex) Sadel S.p.A.
102779 (base 16) Sadel S.p.A.
via Marino Serenari, 1
Castel Maggiore Bologna 40013
IT

80-CA-4B (hex) SHENZHEN GONGJIN ELECTRONICS CO.,LTD
80CA4B (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LTD
No.2, Danzi North Road, Kengzi Street,Pingshan District,
SHENZHEN GUANGDONG 518122
CN

C4-16-88 (hex) Huawei Device Co., Ltd.
C41688 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

64-B0-E8 (hex) Huawei Device Co., Ltd.
64B0E8 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

30-A9-98 (hex) Huawei Device Co., Ltd.
30A998 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

BC-A5-A9 (hex) Apple, Inc.
BCA5A9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

20-E2-A8 (hex) Apple, Inc.
20E2A8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A0-FB-C5 (hex) Apple, Inc.
A0FBC5 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-7D-60 (hex) Apple, Inc.
007D60 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

74-42-7F (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
74427F (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

00-1C-45 (hex) Chenbro Micom Co., Ltd.
001C45 (base 16) Chenbro Micom Co., Ltd.
15Fl., No. 150, Jian Yi Road
Chung Ho City Taipei Hsien 235
TW

C0-61-9A (hex) IEEE Registration Authority
C0619A (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

40-06-34 (hex) Huawei Device Co., Ltd.
400634 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng
Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C4-2B-44 (hex) Huawei Device Co., Ltd.
C42B44 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

F8-A2-6D (hex) CANON INC.
F8A26D (base 16) CANON INC.
30-2 Shimomaruko 3-chome,
Ohta-ku Tokyo 146-8501
JP

68-9E-0B (hex) Cisco Systems, Inc
689E0B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-42-38 (hex) Intel Corporate
004238 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3

Kulim Kedah 09000
MY

74-F9-CA (hex) Nintendo Co.,Ltd
74F9CA (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

70-61-EE (hex) Sunwoda Electronic Co.,Ltd
7061EE (base 16) Sunwoda Electronic Co.,Ltd
No 2,Yihe Road, shiyan Street?shilong Community ,Baoan District
Shenzhen 518105
CN

04-E7-95 (hex) HUAWEI
TECHNOLOGIES CO.,LTD
04E795 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-19-DC (hex) ENENSYS Technologies
0019DC (base 16) ENENSYS Technologies
Le Germanium
RENNES Brittany 35700
FR

B0-7D-64 (hex) Intel Corporate
B07D64 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

48-90-2F (hex) LG Electronics (Mobile Communications)
48902F (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

4C-22-19 (hex) YUANFUDAO HK LIMTED
4C2219 (base 16) YUANFUDAO HK LIMTED
Building C, global creative center, No. 10, Furong street
Beijing 100102
CN

28-C2-1F (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
28C21F (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)

93Moo5T. Bangsamak SEMTHAI, WELLGROW INDUSTRIAL ESTATE
Bangpakong Chachoengsao
24180
TH

8C-70-86 (hex) Gesellschaft für Sonder-EDV-Anlagen mbH
8C7086 (base 16) Gesellschaft für Sonder-EDV-Anlagen mbH
Lorsbacher Straße 31
Hofheim 65719
DE

1C-28-AF (hex) Aruba, a Hewlett Packard Enterprise Company
1C28AF (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

E4-24-6C (hex) Zhejiang Dahua Technology Co., Ltd.
E4246C (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

E8-EB-1B (hex) Microchip Technology Inc.
E8EB1B (base 16) Microchip Technology Inc.
2355 W. Chandler Blvd.
Chandler AZ 85224
US

38-BA-B0 (hex) Broadcom
38BAB0 (base 16) Broadcom
1320 Ridder Park
San Jose CA 95131
US

B0-A4-60 (hex) Intel Corporate
B0A460 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-00-83 (hex) TADPOLE TECHNOLOGY PLC
000083
(base 16) TADPOLE TECHNOLOGY PLC
137 DITTON WALK
ENGLAND
GB

28-B7-7C (hex) IEEE Registration Authority
28B77C (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

D8-EF-42 (hex) Huawei Device Co., Ltd.
D8EF42 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

80-CC-12 (hex) Huawei Device Co., Ltd.
80CC12 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

18-AA-0F (hex) Huawei Device Co., Ltd.
18AA0F (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

54-D9-C6 (hex) Huawei Device Co., Ltd.
54D9C6 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

30-8A-F7 (hex) Huawei Device Co., Ltd.
308AF7 (base 16) Huawei Device
Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

00-14-6A (hex) Cisco Systems, Inc
00146A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

68-D6-ED (hex) GooWi Wireless Technology Co., Limited
68D6ED (base 16) GooWi Wireless Technology Co., Limited
RM402 Building212, Tairan Technology Park, Futian District
Shenzhen Guangdong 518000
CN

84-02-83 (hex) HUMAX Co., Ltd.
840283 (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

94-17-00 (hex) Xiaomi Communications Co Ltd
941700 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

00-E4-06 (hex) HUAWEI TECHNOLOGIES CO.,LTD
00E406 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

44-22-7C
(hex) HUAWEI TECHNOLOGIES CO.,LTD
44227C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

CC-B1-82 (hex) HUAWEI TECHNOLOGIES CO.,LTD
CCB182 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

AC-95-72 (hex) Jovision Technology Co., Ltd.
AC9572 (base 16) Jovision Technology Co., Ltd.
Floor 12, Building 3, Aosheng Square, No.1166 Xinluo Street
Jinan Shandong 250101
CN

00-17-53 (hex) nFore Technology Inc.
001753 (base 16) nFore Technology Inc.
5F, NO 31, Ln 258, Rulguang Rd
Taipei Neihu District 11491
TW

08-9B-B9 (hex) Nokia Solutions and Networks GmbH & Co. KG
089BB9 (base 16) Nokia Solutions and Networks GmbH & Co. KG
Werinherstrasse 91
München Bavaria D-81541

DE

D8-9E-D4 (hex) Fiberhome Telecommunication Technologies Co.,LTD
D89ED4
(base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

AC-9A-96 (hex) Maxlinear, Inc
AC9A96 (base 16) Maxlinear, Inc
Am Campeon 3
Neubiberg Bavaria 85579
DE

40-D2-5F (hex) ITEL MOBILE LIMITED
40D25F (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

54-F1-5F (hex) Sichuan AI-Link Technology Co., Ltd.
54F15F (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou, Industrial Park
Mianyang Sichuan 622650
CN

E0-79-C4 (hex) iRay Technology Company Limited
E079C4 (base 16) iRay Technology Company Limited
Building 45, No. 1000, Jinhai RD., Pudong New Area
Shanghai 201206
CN

00-16-36 (hex) Quanta Computer Inc.
001636 (base 16) Quanta Computer Inc.
No. 211, Wen Hwa 2Rd., Kuei Shan Hsiang
Tao Yuan Shien 0000
TW

88-40-67
(hex) infomark
884067 (base 16) infomark
3F. Humaxvillage, 216 Hwangsaeul-ro
Seongnam-si 13595
KR

A8-03-2A (hex) Espressif Inc.
A8032A (base 16) Espressif Inc.

Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

00-1A-57 (hex) Matrix Design Group, LLC
001A57 (base 16) Matrix Design Group, LLC
5741 Prospect Dr.
Newburgh IN 47630
US

00-1C-FC (hex) Sumitomo Electric Industries, Ltd
001CFC (base 16) Sumitomo Electric Industries, Ltd
1-1-3, Shimaya, Konohana-ku
Osaka 554-0024
JP

48-43-DD (hex) Amazon Technologies Inc.
4843DD (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

58-94-A2 (hex) KETEK GmbH
5894A2 (base 16) KETEK GmbH
Hofer Str. 3
München 81737
DE

64-E7-D8 (hex) Samsung Electronics Co.,Ltd
64E7D8 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

08-38-69
(hex) Hong Kong AMobile Intelligent Corp. Limited Taiwan Branch
083869 (base 16) Hong Kong AMobile Intelligent Corp. Limited Taiwan Branch
8F.-1, No.700, Zhongzheng Rd., Zhonghe Dist.
New Taipei City 235 23552
TW

24-81-C7 (hex) Huawei Device Co., Ltd.
2481C7 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

FC-86-2A (hex) Huawei Device Co., Ltd.

FC862A (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

88-29-49 (hex) Renesas Electronics (Penang) Sdn. Bhd.
882949 (base 16) Renesas Electronics (Penang) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

3C-84-6A (hex) TP-LINK TECHNOLOGIES CO.,LTD.
3C846A (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen
Guangdong 518057
CN

24-A1-60 (hex) Espressif Inc.
24A160 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

DC-AE-EB (hex) Ruckus Wireless
DCAEEB (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

84-D8-1B (hex) TP-LINK TECHNOLOGIES CO.,LTD.
84D81B (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

7C-2A-DB (hex) Xiaomi Communications Co Ltd
7C2ADB (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

90-91-64 (hex) ChongQing Lavid Technology Co., Ltd.
909164 (base 16) ChongQing Lavid Technology Co., Ltd.
Plant No. 3, Block M2, Photoelectric Park, Wuqiao Lianhe Economic Development Zone, Wanzhou District
Chongqing
404100
CN

EC-DB-86 (hex) API-K
ECDB86 (base 16) API-K
ZA Tire Poix
Saint Vincent de Mercuze Isère 38660
FR

1C-3D-2F (hex) HUAWEI TECHNOLOGIES CO.,LTD
1C3D2F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

EC-75-3E (hex) HUAWEI TECHNOLOGIES CO.,LTD
EC753E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-1D-67 (hex) AMEC
001D67 (base 16) AMEC
9F,No.360,Ruel Guang Rd,Neihu
Taipei 114
TW

BC-E9-2F (hex) HP Inc.
BCE92F (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

00-1A-62 (hex) Data Robotics, Incorporated
001A62 (base 16) Data Robotics, Incorporated
1881 Landings Dr
Mountain View CA 94043
US

C0-63-69 (hex) BINXIN TECHNOLOGY(ZHEJIANG) LTD.
C06369 (base 16) BINXIN TECHNOLOGY(ZHEJIANG) LTD.
B4066
Haichuang Park,368 Liuhe Road, Binjiang District
Hangzhou Zhejiang 310051
CN

18-41-FE (hex) Digital 14
1841FE (base 16) Digital 14
Elektroniikkatie 8
Oulu 90590

FI

F8-64-B8 (hex) zte corporation
F864B8 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

14-51-20 (hex) Huawei Device Co., Ltd.
145120 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C0-D1-93 (hex) Huawei Device Co., Ltd.
C0D193 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

78-04-E3 (hex) Huawei Device Co., Ltd.
7804E3 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

A4-3B-0E (hex) Huawei Device Co., Ltd.
A43B0E (base 16) Huawei Device Co., Ltd.
No.2
of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E0-92-A7 (hex) Feitian Technologies Co., Ltd
E092A7 (base 16) Feitian Technologies Co., Ltd
Floor 17, Tower B, Huizhi Mansion, No.9 Xueqing Rd, Haidian District
Beijing 100085
CN

B0-76-1B (hex) HUAWEI TECHNOLOGIES CO.,LTD
B0761B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

8C-0E-60 (hex) Nanjing Juplink Intelligent Technologies Co., Ltd.
8C0E60 (base 16) Nanjing Juplink Intelligent Technologies Co., Ltd.
No. 757 Dixiu Road, Binjiang Economic Development Zone, Jiangning District

Nanjing Jiangsu 211100
CN

08-B0-A7 (hex) Truebeyond Co., Ltd
08B0A7 (base 16) Truebeyond Co., Ltd
D-906, 60, Haan-ro
Gwangmyeong Gyeonggi 14322
KR

34-0A-33 (hex) D-Link International
340A33 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore
Singapore 609917
SG

94-44-44 (hex) LG Innotek
944444 (base 16) LG Innotek
Jangduk-dong, Gwangsan-gu
Gwang-ju 506-731
KR

84-37-D5 (hex) Samsung Electronics Co.,Ltd
8437D5 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

34-82-C5 (hex) Samsung Electronics Co.,Ltd
3482C5 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

18-AB-1D (hex) Samsung Electronics Co.,Ltd
18AB1D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F8-60-F0 (hex) Aruba, a Hewlett Packard Enterprise Company
F860F0 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

7C-6D-F8 (hex) Apple, Inc.
7C6DF8 (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

50-AD-71 (hex) Tessolve Semiconductor Private Limited
50AD71
(base 16) Tessolve Semiconductor Private Limited
Plot No: 31, P2, Electronic City Phase II, Electronic City
Bengaluru Karnataka 560100
IN

5C-A5-BC (hex) eero inc.
5CA5BC (base 16) eero inc.
660 3rd Street
San Francisco 94107
US

F0-D7-AF (hex) IEEE Registration Authority
F0D7AF (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

7C-A9-6B (hex) Syrotech Networks. Ltd.
7CA96B (base 16) Syrotech Networks. Ltd.
UNIT NO.-5 20F, KIN WING INDUSTERIAL BUILDING,33 KIN WING STREET
TUEN MUN 999077
HK

98-06-3C (hex) Samsung Electronics Co.,Ltd
98063C (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

74-A7-EA (hex) Amazon Technologies Inc.
74A7EA (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

74-AB-93 (hex) Blink by Amazon
74AB93 (base 16) Blink by Amazon
100 Riverpark
Drive
North Reading MA 01864
US

D8-4F-37 (hex) Proxis, spol. s r.o.
D84F37 (base 16) Proxis, spol. s r.o.
Slovenska 1
Bardejov PSK 08501
SK

84-EA-ED (hex) Roku, Inc
84EAED (base 16) Roku, Inc
1155 Coleman Ave
San Jose CA 95110
US

78-11-00 (hex) Quantumsolution
781100 (base 16) Quantumsolution
Rm 903, STX V-Tower, 128, Gasandigital 1-ro, Geumcheon-gu
Seoul 08507
KR

DC-91-BF (hex) Amazon Technologies Inc.
DC91BF (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

6C-CE-44 (hex) 1MORE
6CCE44 (base 16) 1MORE
TianliaoBuilding F14?New Materials Industrial Park,Xueyuan Blvd,Nanshan
Shenzhen Guangdong 518055
CN

E8-7F-95 (hex) Apple, Inc.
E87F95 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

88-C0-8B (hex) Apple, Inc.
88C08B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

4C-7C-D9
(hex) Apple, Inc.
4C7CD9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

94-08-53 (hex) Liteon Technology Corporation
940853 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

B4-9E-80 (hex) Sichuan Changhong Electric Ltd.
B49E80 (base 16) Sichuan Changhong Electric Ltd.
No.35,East MianXin Road,MianYang,Sichaun,China.
MianYang SiChuan PRC 621000
CN

A4-93-40 (hex) Beijing Supvan Information Technology Co.,Ltd.
A49340 (base 16) Beijing Supvan Information Technology Co.,Ltd.
206.2/F,Building No.1.No.1 Gaoxin Three Street. Huilongguan Town,Changping District
Beijing Beijing 102206
CN

F8-E8-77 (hex) Harman/Becker Automotive Systems GmbH
F8E877 (base 16) Harman/Becker Automotive Systems GmbH
Becker-Göring-Straße 16
Karlsbad Baden-Württemberg 76307
DE

A0-9B-12 (hex) China Mobile IOT Company Limited
A09B12 (base 16) China
Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area
Chongqing Chongqing 401336
CN

00-E2-2C (hex) China Mobile Group Device Co.,Ltd.
00E22C (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

98-F6-21 (hex) Xiaomi Communications Co Ltd
98F621 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

D0-76-8F (hex) Calix Inc.
D0768F (base 16) Calix Inc.
2777 Orchard Pkwy
San Jose CA 95131

US

C0-39-5A (hex) Zhejiang Dahua Technology Co., Ltd.
C0395A (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

20-64-CB (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
2064CB (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

14-13-FB
(hex) HUAWEI TECHNOLOGIES CO.,LTD
1413FB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F0-55-01 (hex) Huawei Device Co., Ltd.
F05501 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

DC-1B-A1 (hex) Intel Corporate
DC1BA1 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

94-FB-A7 (hex) IEEE Registration Authority
94FBA7 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

FC-3D-A5 (hex) Arcadyan Corporation
FC3DA5 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

BC-33-AC (hex) Silicon Laboratories
BC33AC (base 16) Silicon Laboratories
7000 W. William Cannon Dr.

Austin TX 78735
US

AC-3C-8E (hex) Flextronics Computing(Suzhou)Co.,Ltd.
AC3C8E
(base 16) Flextronics Computing(Suzhou)Co.,Ltd.
No.1 GuanPu Road. Guoxiang street , WuZhong District,Suzhou City, Jiangsu Province.
Suzhou 215124
CN

40-62-34 (hex) Telink Semiconductor (Shanghai) Co., Ltd.
406234 (base 16) Telink Semiconductor (Shanghai) Co., Ltd.
No. 1500 Zuchongzhi Rd, Building #3
Shanghai 201203
CN

C8-71-25 (hex) Johnson Outdoors Marine Electronics d/b/a Minnkota
C87125 (base 16) Johnson Outdoors Marine Electronics d/b/a Minnkota
1531 E Madison Ave
Mankato MN 56001
US

80-CF-A2 (hex) Huawei Device Co., Ltd.
80CFA2 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

00-94-EC (hex) Huawei Device Co., Ltd.
0094EC (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

74-45-2D (hex) Huawei Device Co., Ltd.
74452D (base 16) Huawei Device
Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

EC-6C-B5 (hex) zte corporation
EC6CB5 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

C0-B1-01 (hex) zte corporation

C0B101 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

A4-50-06 (hex) SHENZHEN HUACHUANG SHIDAI TECHNOLOGYCO.,LTD
A45006 (base 16) SHENZHEN HUACHUANG SHIDAI TECHNOLOGYCO.,LTD
longhua dalang huaronglu lianjiangongyeyuan 4-5
shenzhen guangdong 518000
CN

14-01-52 (hex) Samsung Electronics Co.,Ltd
140152 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-13-29 (hex) VSST Co., LTD
001329 (base 16) VSST Co., LTD
suit 3202, Korea World Trade Center 159-1
Seoul 135-729
KR

7C-F2-DD (hex) Vence Corp
7CF2DD
(base 16) Vence Corp
16885 W Bernardo Dr., STE 209
San Diego CA 92127
US

98-8E-79 (hex) Qudelix, Inc.
988E79 (base 16) Qudelix, Inc.
605-ho, 21, Baekbeom-ro 31-gil, Mapo-gu
Seoul 12110
KR

A8-6A-BB (hex) Sagemcom Broadband SAS
A86ABB (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

24-43-E2 (hex) DASAN Network Solutions
2443E2 (base 16) DASAN Network Solutions
DASAN Tower 8F, 49 Daewangpangyo-ro644beon-gil Bundang-gu
Seongnam-si Gyeonggi-do 13493
KR

CC-AB-2C (hex) HUMAX Co., Ltd.
CCAB2C (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

D4-9C-F4 (hex) Palo Alto Networks
D49CF4 (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

C4-24-56 (hex) Palo Alto Networks
C42456 (base 16) Palo Alto Networks
3000 Tannery Way
Santa
Clara CA 95054
US

84-D4-12 (hex) Palo Alto Networks
84D412 (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

B8-2F-CB (hex) CMS Electracom
B82FCB (base 16) CMS Electracom
24 Binney Road
Kings Park NSW 2148
AU

4C-FC-AA (hex) Tesla,Inc.
4CFCAA (base 16) Tesla,Inc.
3500 Deer Creek Rd.
PALO ALTO CA 94304
US

08-03-42 (hex) Palo Alto Networks
080342 (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

C8-07-39 (hex) NAKAYO Inc
C80739 (base 16) NAKAYO Inc
1-3-2, Soja-machi
Maebashi-shi Gunma 371-0853
JP

54-0E-2D (hex) vivo Mobile Communication Co., Ltd.
540E2D (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

70-8F-47 (hex) vivo Mobile Communication Co., Ltd.
708F47 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong
523860
CN

00-18-76 (hex) WowWee Ltd.
001876 (base 16) WowWee Ltd.
92 Granville Rd. Suite 301A-C
T.S.T. East Kowloon
HK

EC-23-7B (hex) zte corporation
EC237B (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

6C-6D-09 (hex) Kyowa Electronics Co.,Ltd.
6C6D09 (base 16) Kyowa Electronics Co.,Ltd.
4-3-31 Takatsukasa
Takarazuka Hyogo 665-0051
JP

90-17-3F (hex) HUAWEI TECHNOLOGIES CO.,LTD
90173F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

60-7E-CD (hex) HUAWEI TECHNOLOGIES CO.,LTD
607ECD (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

10-CE-45 (hex) Miromico AG
10CE45 (base 16) Miromico AG
Gallusstrasse 4
Zurich Zurich CH-8006

CH

BC-4A-56 (hex) Cisco
Systems, Inc
BC4A56 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F8-AF-05 (hex) Huawei Device Co., Ltd.
F8AF05 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

78-B8-D6 (hex) Zebra Technologies Inc.
78B8D6 (base 16) Zebra Technologies Inc.
ONE ZEBRA PLAZA
HOLTSVILLE NY 11742
US

8C-59-DC (hex) ASR Microelectronics (Shanghai) Co., Ltd.
8C59DC (base 16) ASR Microelectronics (Shanghai) Co., Ltd.
Building 2, NO.399 Keyuan Road,Pudong District
Shanghai Shanghai 201210
CN

18-82-8C (hex) Arcadyan Corporation
18828C (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

D4-52-EE (hex) SKY UK LIMITED
D452EE (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

AC-12-03 (hex) Intel Corporate
AC1203 (base 16) Intel Corporate
Lot
8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

94-E9-EE (hex) Huawei Device Co., Ltd.
94E9EE (base 16) Huawei Device Co., Ltd.

No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

28-E3-4E (hex) HUAWEI TECHNOLOGIES CO.,LTD
28E34E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

9C-F0-29 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
9CF029 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

28-56-C1 (hex) Harman/Becker Automotive Systems GmbH
2856C1 (base 16) Harman/Becker Automotive Systems GmbH
15th Fl, 400 Atlantic Street
Stamford CT 06901
US

64-BC-58 (hex) Intel Corporate
64BC58 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

40-2E-71 (hex) Texas Instruments
402E71 (base
16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

6C-61-F4 (hex) SFR
6C61F4 (base 16) SFR
12 rue jean-philippe Rameau CS 80001
La plaine saint denis FRANCE 93634
FR

F4-90-CB (hex) IEEE Registration Authority
F490CB (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

78-81-CE (hex) China Mobile Iot Limited company

7881CE (base 16) China Mobile Iot Limited company
No. 8 Yangliu North Road, Yubei District, Chongqing, China
Chong Qing Chong Qing 401120
CN

44-5C-E9 (hex) Samsung Electronics Co.,Ltd
445CE9 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

C0-16-92 (hex) China Mobile Group Device Co.,Ltd.
C01692 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

BC-FF-21 (hex) Smart Code(shenzhen)Technology Co.,Ltd
BCFF21 (base
16) Smart Code(shenzhen)Technology Co.,Ltd
Room 1206, Satellite Building,2002 Keyuan Road, Nanshan
Shenzhen Guangdong (Province) 518000
CN

18-58-69 (hex) Sailer Electronic Co., Ltd
185869 (base 16) Sailer Electronic Co., Ltd
No. 6, Sanxi Road, Ximagou Industrial Park, Jianxi District
Luoyang Henan 471000
CN

BC-2D-EF (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
BC2DEF (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China 401120
CN

38-17-30 (hex) Ulrich Lippert GmbH & Co KG
381730 (base 16) Ulrich Lippert GmbH & Co KG
Christian-Henkel-Str. 12
Berlin 12349
DE

98-C8-B8 (hex) vivo Mobile Communication Co., Ltd.
98C8B8 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

B8-D4-E7 (hex) Aruba, a Hewlett Packard Enterprise Company
B8D4E7
(base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

BC-09-63 (hex) Apple, Inc.
BC0963 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-4C-90 (hex) Apple, Inc.
D84C90 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

24-D0-DF (hex) Apple, Inc.
24D0DF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

6C-4A-85 (hex) Apple, Inc.
6C4A85 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

28-F0-33 (hex) Apple, Inc.
28F033 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-81-75 (hex) Sagemcom Broadband SAS
F08175 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

1C-63-BF (hex) SHENZHEN BROADTEL TELECOM CO.,LTD
1C63BF (base 16) SHENZHEN BROADTEL TELECOM CO.,LTD
No.14-1,
Tongqing Road, Baolong street, Longgang District
ShenZhen GuangDong 518116

CN

AC-36-51 (hex) Jiangsu Hengtong Terahertz Technology Co., Ltd.
AC3651 (base 16) Jiangsu Hengtong Terahertz Technology Co., Ltd.
Room 1312, Beiyou Technology Building, Haidian District
Beijing Beijing 100876
CN

68-8F-C9 (hex) Zhuolian (Shenzhen) Communication Co., Ltd
688FC9 (base 16) Zhuolian (Shenzhen) Communication Co., Ltd
Shengli electromechanical Co., Ltd. 201, No.19, Xixiang section, Guangshen Road, Jingbei community, Xixiang street, Bao'an District
Shenzhen Shenzhen 518101
CN

D8-47-32 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
D84732 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

00-5E-0C (hex) HMD Global Oy
005E0C (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

B4-81-07
(hex) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
B48107 (base 16) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
Unit East Block22-24/F,Skyworth semiconductor design Bldg., Gaoxin Ave.4.S.,Nanshan District,Shenzhen,China
SHENZHEN GUANGDONG 518057
CN

70-66-55 (hex) AzureWave Technology Inc.
706655 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

68-4A-76 (hex) eero inc.
684A76 (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

8C-68-3A (hex) HUAWEI TECHNOLOGIES CO.,LTD
8C683A (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B4-6E-08 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B46E08 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C8-58-C0 (hex) Intel Corporate
C858C0 (base 16) Intel Corporate
Lot
8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

4C-B1-6C (hex) HUAWEI TECHNOLOGIES CO.,LTD
4CB16C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1-4,Huawei Industrial Base,Bantian,Longgang
ShenZhen GuangDong 518129
CN

0C-48-C6 (hex) CELESTICA INC.
0C48C6 (base 16) CELESTICA INC.
1900-5140 Yonge Street PO Box 42
Toronto Ontario M2N 6L7
CA

A4-29-85 (hex) Sichuan AI-Link Technology Co., Ltd.
A42985 (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou, Industrial Park
Mianyang Sichuan 622650
CN

28-64-B0 (hex) Huawei Device Co., Ltd.
2864B0 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

04-F1-69 (hex) Huawei Device Co., Ltd.
04F169 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

50-21-EC (hex) Huawei Device Co., Ltd.

5021EC (base 16) Huawei Device
Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

A0-43-B0 (hex) Hangzhou BroadLink Technology Co.,Ltd
A043B0 (base 16) Hangzhou BroadLink Technology Co.,Ltd
Room 101,1/F,Unit C,Building 1,No.57 Jiang'er Road,Changhe Street,Binjiang District,Hangzhou,Zhejiang,P.R.China
Hangzhou Zhejiang 310052
CN

D8-C5-61 (hex) CommFront Communications Pte Ltd
D8C561 (base 16) CommFront Communications Pte Ltd
No. 1 Yishun Industrial ST 1, #05-31 A'Posh BizHub
SG SG 768160
SG

60-D8-9C (hex) HMD Global Oy
60D89C (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

F8-2E-8E (hex) Nanjing Kechen Electric Co., Ltd.
F82E8E (base 16) Nanjing Kechen Electric Co., Ltd.
Room 202, Building 12, No. 50 Daguang road
Nanjing 210001
CN

B4-C9-B9 (hex) Sichuan AI-Link Technology Co., Ltd.
B4C9B9 (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou, Industrial
Park
Mianyang Sichuan 622650
CN

F0-46-3B (hex) Comcast Cable Corporation
F0463B (base 16) Comcast Cable Corporation
1800 Arch Street
Philadelphia PA 19103
US

F4-1C-95 (hex) BEIJING YUNYI TIMES TECHNOLOGY CO,.LTD
F41C95 (base 16) BEIJING YUNYI TIMES TECHNOLOGY CO,.LTD
Room 2005, 2f, building B, No.1 Kaituo Road, Shangdi Information Industry base, Haidian District
BEIJING 100085

CN

A0-68-7E (hex) ARRIS Group, Inc.
A0687E (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

A8-70-5D (hex) ARRIS Group, Inc.
A8705D (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

9C-97-89 (hex) 1MORE
9C9789 (base 16) 1MORE
TianliaoBuilding F14, New Materials Industrial Park, Xueyuan Blvd?Nanshan
Shenzhen Guangdong 518055
CN

78-6D-EB (hex) GE Lighting
786DEB (base 16) GE Lighting
1975 Noble Rd
East Cleveland OH 44112
US

88-E9-A4
(hex) Hewlett Packard Enterprise
88E9A4 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

28-63-BD (hex) APTIV SERVICES US, LLC
2863BD (base 16) APTIV SERVICES US, LLC
5725 Innovation Drive
Troy MI 48098
US

C4-02-E1 (hex) Khwahish Technologies Private Limited
C402E1 (base 16) Khwahish Technologies Private Limited
Plot # 42, Thirugnana Sambandhar Street, Srinivasa Nagar, Madipakkam
Chennai TamilNadu 600091
IN

F8-5B-3B (hex) ASKEY COMPUTER CORP
F85B3B (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST

NEW TAIPEI TAIWAN 23585
TW

C8-FA-84 (hex) Trusonus corp.
C8FA84 (base 16) Trusonus corp.
6F., No.42, Songjiang Rd., Zhongshan Dist
Taipei 10455
TW

8C-5A-C1 (hex) Huawei Device Co., Ltd.
8C5AC1 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

A8-5A-E0
(hex) Huawei Device Co., Ltd.
A85AE0 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

A4-B6-1E (hex) Huawei Device Co., Ltd.
A4B61E (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C4-FE-5B (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
C4FE5B (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

84-F8-83 (hex) Luminar Technologies
84F883 (base 16) Luminar Technologies
12601 Research Pkwy
Orlando FL 32828-7335
US

B4-4C-3B (hex) Zhejiang Dahua Technology Co., Ltd.
B44C3B (base 16) Zhejiang Dahua Technology Co., Ltd.
No.1199,Waterfront Road
Hangzhou Zhejiang 310053
CN

40-A2-DB (hex) Amazon Technologies Inc.
40A2DB (base 16) Amazon Technologies Inc.

P.O Box 8102
Reno NV 89507
US

C0-39-37
(hex) GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI
C03937 (base 16) GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI
Jinji West Road, Qianshan,
Zhuhai Guangdong 519070
CN

00-09-F3 (hex) WELL Communication Corp.
0009F3 (base 16) WELL Communication Corp.
11F, No.778, Chung Cheng Rd., Chung Ho C
Chung Ho 235
TW

A8-85-D7 (hex) Sangfor Technologies Inc.
A885D7 (base 16) Sangfor Technologies Inc.
block A1 ?nanshan ipark, No 1001, xueyuan road
Shenzhen 518100
CN

44-4A-DB (hex) Apple, Inc.
444ADB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

9C-A5-13 (hex) Samsung Electronics Co.,Ltd
9CA513 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

4C-6C-13 (hex) IoT Company Solucoes Tecnologicas Ltda
4C6C13 (base 16) IoT Company Solucoes Tecnologicas Ltda
Rua Jordao Schiavetto, 436 - Sala 6
Hortolandia Sao Paulo 13184-080
BR

30-90-48
(hex) Apple, Inc.
309048 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

94-24-B8 (hex) GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI
9424B8 (base 16) GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI
Jinji West Road, Qianshan,
Zhuhai Guangdong 519070
CN

CC-F4-11 (hex) Google, Inc.
CCF411 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

9C-2D-CF (hex) Shishi Tongyun Technology(Chengdu)Co.,Ltd.
9C2DCF (base 16) Shishi Tongyun Technology(Chengdu)Co.,Ltd.
No. 1268 Middle Section of Tianfu Avenue, Chengdu High-tech Zone, China (Sichuan) Pilot Free Trade Zone
Chengdu Sichuan 610017
CN

C8-C4-65 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C8C465 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

1C-43-63 (hex) HUAWEI TECHNOLOGIES CO.,LTD
1C4363 (base 16) HUAWEI TECHNOLOGIES
CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-67-D1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C467D1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

30-7E-CB (hex) SFR
307ECB (base 16) SFR
40/42 Quai du point du jour
Boulongne Billancourt Hauts de Seine 92659
FR

C8-03-F5 (hex) Ruckus Wireless
C803F5 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

F8-0F-F9 (hex) Google, Inc.
F80FF9 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

94-29-2F (hex) New H3C Technologies Co., Ltd
94292F (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

D4-9A-A0 (hex) VNPT TECHNOLOGY
D49AA0 (base 16) VNPT TECHNOLOGY
HoaLac Hi-Tech Park
HANOI HANOI 10000
VN

6C-F0-49
(hex) GIGA-BYTE TECHNOLOGY CO.,LTD.
6CF049 (base 16) GIGA-BYTE TECHNOLOGY CO.,LTD.
Pin-Jen City, Taoyuan, Taiwan, R.O.C.
Pin-Jen Taoyuan 324
TW

FC-AA-14 (hex) GIGA-BYTE TECHNOLOGY CO.,LTD.
FCAA14 (base 16) GIGA-BYTE TECHNOLOGY CO.,LTD.
Pin-Jen City, Taoyuan, Taiwan, R.O.C.
Pin-Jen Taoyuan 324
TW

04-33-C2 (hex) Intel Corporate
0433C2 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

44-46-87 (hex) Realme Chongqing MobileTelecommunications Corp Ltd
444687 (base 16) Realme Chongqing MobileTelecommunications Corp Ltd
No.24 Nichang Boulevard, Huixing Block, Yubei District, Chongqing.
Chongqing China 401120
CN

20-F3-75 (hex) ARRIS Group, Inc.
20F375 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121

US

84-BB-69 (hex) ARRIS Group, Inc.
84BB69 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

E8-26-89
(hex) Aruba, a Hewlett Packard Enterprise Company
E82689 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

B8-19-04 (hex) Nokia Shanghai Bell Co., Ltd.
B81904 (base 16) Nokia Shanghai Bell Co., Ltd.
No.388 Ning Qiao Road,Jin Qiao Pudong Shanghai
Shanghai 201206
CN

B4-A5-AC (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
B4A5AC (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

1C-78-4E (hex) China Mobile Iot Limited company
1C784E (base 16) China Mobile Iot Limited company
No. 8 Yangliu North Road, Yubei District, Chongqing, China
Chong Qing Chong Qing 401120
CN

E0-F4-42 (hex) Huawei Device Co., Ltd.
E0F442 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

F0-C4-2F (hex) Huawei Device Co., Ltd.
F0C42F
(base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C0-B4-7D (hex) Huawei Device Co., Ltd.
C0B47D (base 16) Huawei Device Co., Ltd.

No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

F4-A5-9D (hex) Huawei Device Co., Ltd.
F4A59D (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E8-1B-4B (hex) amnimo Inc.
E81B4B (base 16) amnimo Inc.
M21-4, 2-9-32 Nakacho
Musashino-shi Tokyo 180-8750
JP

A4-B4-39 (hex) Cisco Systems, Inc
A4B439 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A0-B4-39 (hex) Cisco Systems, Inc
A0B439 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

10-5F-D4 (hex) Tendyron Corporation
105FD4 (base 16) Tendyron Corporation
Tendyron Building,Zhongguancun
NO.1 Park,Beiqing Road,Haidian District,Beijing,China
Beijing 100000
CN

84-3E-79 (hex) Shenzhen Belon Technology CO.,LTD
843E79 (base 16) Shenzhen Belon Technology CO.,LTD
Tsinghua Information
Shenzhen Guangdong 518052
CN

F8-4E-73 (hex) Apple, Inc.
F84E73 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

3C-CD-36 (hex) Apple, Inc.

3CCD36 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B4-26-5D (hex) Taicang T&W Electronics
B4265D (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

48-A5-E7 (hex) Nintendo Co.,Ltd
48A5E7 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

88-12-3D (hex) Suzhou Aquila Solutions Inc.
88123D (base 16) Suzhou Aquila Solutions Inc.
Room 201, Building 3, 18 Dongchang Road, Suzhou Industry Park, Suzhou, PRC. Zip Code: 215000
Suzhou 215000
CN

48-21-0B
(hex) PEGATRON CORPORATION
48210B (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

00-68-EB (hex) HP Inc.
0068EB (base 16) HP Inc.
10300 Energy Dr
Spring TX 77389
US

7C-31-0E (hex) Cisco Systems, Inc
7C310E (base 16) Cisco Systems, Inc
80 West Tasman Dr.
San Jose CA 94568
US

D4-B7-09 (hex) zte corporation
D4B709 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

38-14-4E (hex) Fiberhome Telecommunication Technologies Co.,LTD
38144E (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

E0-CC-F8 (hex) Xiaomi Communications Co Ltd
E0CCF8 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

A0-1C-8D
(hex) HUAWEI TECHNOLOGIES CO.,LTD
A01C8D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F4-DE-AF (hex) HUAWEI TECHNOLOGIES CO.,LTD
F4DEAF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

60-12-3C (hex) HUAWEI TECHNOLOGIES CO.,LTD
60123C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

48-4C-86 (hex) Huawei Device Co., Ltd.
484C86 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

54-F2-94 (hex) Huawei Device Co., Ltd.
54F294 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

84-C5-A6 (hex) Intel Corporate
84C5A6 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech
2/3
Kulim Kedah 09000

MY

5C-80-B6 (hex) Intel Corporate
5C80B6 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

F8-E4-E3 (hex) Intel Corporate
F8E4E3 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

AC-67-5D (hex) Intel Corporate
AC675D (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

F0-78-07 (hex) Apple, Inc.
F07807 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

08-2C-B6 (hex) Apple, Inc.
082CB6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-CF-89 (hex) Beijing DoSee Science and Technology Co., Ltd.
D8CF89 (base 16) Beijing DoSee Science and Technology Co., Ltd.
Room 819-158,Floor 8,XinCaiLiao Chuangye Building,No.7 FengHuiZhong Road, Haidian District
Beijing 100094
CN

04-AA-E1 (hex) BEIJING MICROVISION TECHNOLOGY CO.,LTD
04AAE1
(base 16) BEIJING MICROVISION TECHNOLOGY CO.,LTD
ROOM 207-208,2/F,TAIXIANG COMMERCIAL BUILDING,NO.1A,LONGXIANG ROAD,HAIDIAN DISTRICT,BEIJING,P.R.C
BEIJING BEIJING 100191
CN

B4-E8-C9 (hex) XADA Technologies
B4E8C9 (base 16) XADA Technologies

No. 2-2, Xinyi Road Section 5, Lane 150, 1st Floor
Taipei City Taipei City 110
TW

6C-24-A6 (hex) vivo Mobile Communication Co., Ltd.
6C24A6 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

9C-5F-5A (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
9C5F5A (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

24-5A-B5 (hex) Samsung Electronics Co.,Ltd
245AB5 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C0-D2-DD (hex) Samsung Electronics Co.,Ltd
C0D2DD (base 16) Samsung Electronics
Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

94-2D-DC (hex) Samsung Electronics Co.,Ltd
942DDC (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

7C-B3-7B (hex) Qingdao Intelligent&Precise Electronics Co.,Ltd.
7CB37B (base 16) Qingdao Intelligent&Precise Electronics Co.,Ltd.
No.218 Qianwangang Road
Qingdao Shangdong 266510
CN

FC-DB-21 (hex) SAMSARA NETWORKS INC
FCDB21 (base 16) SAMSARA NETWORKS INC
525 York St
San Francisco CA 94110
US

E4-47-B3 (hex) zte corporation

E447B3 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

44-DC-4E (hex) ITEL MOBILE LIMITED
44DC4E (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

7C-21-0E (hex) Cisco Systems, Inc
7C210E (base
16) Cisco Systems, Inc
80 West Tasman Dr.
San Jose CA 94568
US

38-2A-19 (hex) Technica Engineering GmbH
382A19 (base 16) Technica Engineering GmbH
Leopoldstraße 236
Munich 80807
DE

74-D6-54 (hex) GINT
74D654 (base 16) GINT
9F, 47, Daehak-ro, Youngtong-gu
Suwon-si Gyeonggi-do 16225
KR

5C-B1-3E (hex) Sagemcom Broadband SAS
5CB13E (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

E4-AA-EA (hex) Liteon Technology Corporation
E4AAEA (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

A0-94-6A (hex) Shenzhen XGTEC Technology Co,.Ltd.
A0946A (base 16) Shenzhen XGTEC Technology Co,.Ltd.
Room 312, Changhong Science and Technology Building, No.18, South 12 Rd., High-tech Community, Yuehai Street, Nanshan District, Shenzhen
Shenzhen Guangdong 518057
CN

1C-2A-A3 (hex) Shenzhen
HongRui Optical Technology Co., Ltd.
1C2AA3 (base 16) Shenzhen HongRui Optical Technology Co., Ltd.
B#2F Shuangjinhui Industrial Park, Yonghe Road, Heping Village, Fuyong Town, Bao'an Dis
Shenzhen Guangdong 518000
CN

38-8E-7A (hex) AUTOIT
388E7A (base 16) AUTOIT
212, Gasan digital 1-ro
Seoul Geumcheon-gu 08502
KR

9C-31-C3 (hex) SKY UK LIMITED
9C31C3 (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

F4-E5-F2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F4E5F2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

54-13-10 (hex) HUAWEI TECHNOLOGIES CO.,LTD
541310 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

8C-E5-EF (hex) HUAWEI TECHNOLOGIES CO.,LTD
8CE5EF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan
Lake Technology Park
Dongguan 523808
CN

B8-3A-5A (hex) Aruba, a Hewlett Packard Enterprise Company
B83A5A (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

F0-EF-86 (hex) Google, Inc.
F0EF86 (base 16) Google, Inc.
1600 Amphitheatre Parkway

Mountain View CA 94043
US

E4-C0-CC (hex) China Mobile Group Device Co.,Ltd.
E4C0CC (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

48-79-4D (hex) Samsung Electronics Co.,Ltd
48794D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

18-F9-C4 (hex) BAE Systems
18F9C4 (base 16) BAE Systems
21 continental boulevard
Merrimack NH 03054
US

60-AB-D2 (hex) Bose Corporation
60ABD2 (base 16) Bose Corporation
The Mountain
Framingham MA 01701-9168
US

4C-71-0D (hex) Cisco
Systems, Inc
4C710D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

4C-71-0C (hex) Cisco Systems, Inc
4C710C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A4-CD-23 (hex) Shenzhenshi Xinzhongxin Co., Ltd
A4CD23 (base 16) Shenzhenshi Xinzhongxin Co., Ltd
Building A3, Donghuan Industrial Zone, Nanpu Road, Shajing Town, Baoan District
Shenzhen Guangdong 518125
CN

E0-1F-0A (hex) Xslent Energy Technologies. LLC
E01F0A (base 16) Xslent Energy Technologies. LLC

7428 Redwood Blvd
Novato CA 94945
US

C0-DC-DA (hex) Samsung Electronics Co.,Ltd
C0DCDA (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

04-B4-29 (hex) Samsung Electronics Co.,Ltd
04B429 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E4-67-1E (hex) SHEN ZHEN NUO XIN CHENG TECHNOLOGY co.,
Ltd.
E4671E (base 16) SHEN ZHEN NUO XIN CHENG TECHNOLOGY co., Ltd.
Building A2 and 1 F/L, Building A1, 9 Wugang Rd, Xikeng Village, Xikeng Community, Henggang Sub-district, Longgang District
Shenzhen 518100
CN

68-27-19 (hex) Microchip Technology Inc.
682719 (base 16) Microchip Technology Inc.
2355 W. Chandler Blvd.
Chandler AZ 85224
US

24-C1-7A (hex) BEIJING IACTIVE NETWORK CO.,LTD
24C17A (base 16) BEIJING IACTIVE NETWORK CO.,LTD
Room 525, Yiquanhui Building, No. 35 Shangdi East Road, Haidian District
BEIJING 100085
CN

A4-C9-39 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
A4C939 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

34-D7-72 (hex) Xiamen Yudian Automation Technology Co., Ltd
34D772 (base 16) Xiamen Yudian Automation Technology Co., Ltd
No. 17 North Huoju Rd., Huoju Park, Huoju Hi-Tech District
XIAMEN
FUJIAN 361000
CN

3C-86-D1 (hex) vivo Mobile Communication Co., Ltd.
3C86D1 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

30-1B-97 (hex) Lierda Science & Technology Group Co.,Ltd
301B97 (base 16) Lierda Science & Technology Group Co.,Ltd
Lierda Science Park?No.1326 WenyiWestRoad
Hangzhou ZheJiang 311121
CN

74-DA-88 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
74DA88 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

CC-32-E5 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
CC32E5 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

1C-3B-F3 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
1C3BF3 (base 16) TP-LINK
TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

2C-00-F7 (hex) XOS
2C00F7 (base 16) XOS
15 Tech Valley Drive
East Greenbush NY 12061
US

2C-D2-E3 (hex) Guangzhou Aoshi Electronic Co.,Ltd
2CD2E3 (base 16) Guangzhou Aoshi Electronic Co.,Ltd
B1,Huachuang industrial park,Jinshan Avenue,Panyu District
Guangzhou Guangdong 511450
CN

14-59-C3 (hex) Creative Chips GmbH
1459C3 (base 16) Creative Chips GmbH
Im Bubenstück 1
Bingen Rheinland-Pfalz 55411

DE

7C-8A-E1 (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
7C8AE1 (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO. 25, THE 3RD Street KUNSHAN EXPORT PROCESSING ZONE
KUNSHAN SUZHOU 215300
CN

C8-63-FC (hex) ARRIS Group, Inc.
C863FC (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

54-E4-A9
(hex) BHR Tech GmbH
54E4A9 (base 16) BHR Tech GmbH
Georg-Franz-Koller-Straße 18
Bisamberg 2102
AT

20-80-58 (hex) Ciena Corporation
208058 (base 16) Ciena Corporation
7035 Ridge Road
Hanover MD 21076
US

68-4A-AE (hex) HUAWEI TECHNOLOGIES CO.,LTD
684AAE (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

60-D7-55 (hex) HUAWEI TECHNOLOGIES CO.,LTD
60D755 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

1C-AE-CB (hex) HUAWEI TECHNOLOGIES CO.,LTD
1CAECB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

4C-F1-9E (hex) Groupe Atlantic
4CF19E (base 16) Groupe Atlantic
Ideal Boilers, National Ave

Hull East Yorkshire HU5 4JB
GB

04-ED-33 (hex) Intel Corporate
04ED33
(base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

20-36-D7 (hex) Shanghai Reacheng Communication Technology Co.,Ltd
2036D7 (base 16) Shanghai Reacheng Communication Technology Co.,Ltd
No. 80, Lane 1505 Zuchongzhi Road
Shanghai Shanghai 201203
CN

94-62-69 (hex) ARRIS Group, Inc.
946269 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

A8-C2-52 (hex) Huawei Device Co., Ltd.
A8C252 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

A0-41-47 (hex) Huawei Device Co., Ltd.
A04147 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

1C-CC-D6 (hex) Xiaomi Communications Co Ltd
1CCCD6 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

A4-45-CD
(hex) IoT Diagnostics
A445CD (base 16) IoT Diagnostics
10052 Commerce Park Drive
Cincinnati OH 45246
US

10-63-C8 (hex) Liteon Technology Corporation

1063C8 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

7C-51-89 (hex) SG Wireless Limited
7C5189 (base 16) SG Wireless Limited
RM 504 5/F Sun Fung Industrial Building 8-12 Ma Kok Street
Tsuen Wan NA
HK

94-D5-05 (hex) Fiberhome Telecommunication Technologies Co.,LTD
94D505 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

7C-B2-7D (hex) Intel Corporate
7CB27D (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

7C-C9-26 (hex) Wuhan GreeNet Information Service Co.,Ltd.
7CC926 (base 16) Wuhan GreeNet Information Service Co.,Ltd.
4-6F, Building 2, Phase 6, Optical Valley Software Park,
East Lake High-Tech Development Zone
Wuhan 430000
CN

68-07-0A (hex) TPVision Europe B.V
68070A (base 16) TPVision Europe B.V
Prins Bernhardplein 200
Amsterdam Noord-Holland 1097 JB
NL

4C-EB-BD (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
4CEBBD (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

70-87-9E (hex) Beken Corporation
70879E (base 16) Beken Corporation
Building 41, Capital of Tech Leaders, 1387 Zhangdong Road, Zhangjiang High-Tech Park, Pudong New District
Shanghai 201203
CN

04-4A-6C (hex) HUAWEI TECHNOLOGIES CO.,LTD
044A6C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

38-FB-14 (hex) HUAWEI TECHNOLOGIES CO.,LTD
38FB14 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology
Park
Dongguan 523808
CN

F0-E4-A2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F0E4A2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B4-50-62 (hex) EmBestor Technology Inc.
B45062 (base 16) EmBestor Technology Inc.
7F, No.1, Chin-Shan 8th St
Hsin-Chu, Taiwan 300
TW

5C-75-AF (hex) Fitbit, Inc.
5C75AF (base 16) Fitbit, Inc.
199 Fremont Street, 14th Fl
San Francisco CA 94105
US

58-20-59 (hex) Xiaomi Communications Co Ltd
582059 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

90-27-2B (hex) Algorab S.r.l.
90272B (base 16) Algorab S.r.l.
Via Luigi Negrelli, 21/13
Lavis TN 38015
IT

4C-BC-B4 (hex) ABB SpA - DIN Rail
4CBCB4 (base 16) ABB SpA - DIN Rail
V.le dell'industria 18
Vittuone Milan 20010
IT

AC-77-13
(hex) Honeywell Safety Products (Shanghai) Co.,Ltd
AC7713 (base 16) Honeywell Safety Products (Shanghai) Co.,Ltd
430 Li Bing Road Zhang Jiang Hi-Tech ParkPudong New Area
Shanghai Shanghai 201203
CN

08-84-9D (hex) Amazon Technologies Inc.
08849D (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

CC-CC-CC (hex) Silicon Laboratories
CCCCCC (base 16) Silicon Laboratories
7000 W. William Cannon Dr.
Austin TX 78735
US

5C-D1-35 (hex) Xtreme Power Systems
5CD135 (base 16) Xtreme Power Systems
2440 Kiowa Blvd. N. #102
Lake Havasu City AZ 86403
US

78-69-D4 (hex) Shenyang Vibrotech Instruments Inc.
7869D4 (base 16) Shenyang Vibrotech Instruments Inc.
No 23-2 Yunfeng St. Tiexi Dist.
Shenyang Liaoning 110021
CN

08-26-97 (hex) Zyxel Communications Corporation
082697 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science
Park
Hsichu Taiwan 300
TW

74-E1-B6 (hex) Apple, Inc.
74E1B6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

24-A5-2C (hex) HUAWEI TECHNOLOGIES CO.,LTD
24A52C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park

Dongguan 523808
CN

48-27-59 (hex) Levven Electronics Ltd.
482759 (base 16) Levven Electronics Ltd.
9741 54 Ave NW
Edmonton Alberta T6E 5J4
CA

D4-AD-BD (hex) Cisco Systems, Inc
D4ADBD (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

64-CB-9F (hex) TECNO MOBILE LIMITED
64CB9F (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

4C-FB-FE (hex) Sercomm Japan Corporation
4CFBFE (base 16) Sercomm Japan Corporation
8F, 3-1, YuanQu St., NanKang,
Taipei 115, Taiwan
Taipei 115
TW

C0-CB-F1 (hex) Mobiwire Mobiles (NingBo) Co., LTD
C0CBF1 (base 16) Mobiwire Mobiles (NingBo) Co., LTD
No.999 Dacheng East Road, Fenghua District, Ningbo City , Zhejiang Province, PRC
Ningbo Zhejiang 315500
CN

E4-7E-9A (hex) zte corporation
E47E9A (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

2C-16-BD (hex) IEEE Registration Authority
2C16BD (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

30-A8-89 (hex) DECIMATOR DESIGN

30A889 (base 16) DECIMATOR DESIGN
UNIT 5 / 11 PRECISION PLACE
VINEYARD NSW 2765
AU

68-3B-78 (hex) Cisco Systems, Inc
683B78 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F4-CE-36 (hex) Nordic Semiconductor ASA
F4CE36 (base 16) Nordic Semiconductor ASA
Otto Nielsens veg 12
Trondheim
NO-7052
NO

FC-7D-6C (hex) HYESUNG TECHWIN Co., Ltd
FC7D6C (base 16) HYESUNG TECHWIN Co., Ltd
#1509,545,Dunchon-daero, Jungwon-gu
Seongnam Gyeonggi-do 13215
KR

1C-D5-E2 (hex) Shenzhen YOUHUA Technology Co., Ltd
1CD5E2 (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

00-24-E9 (hex) Samsung Electronics Co.,Ltd
0024E9 (base 16) Samsung Electronics Co.,Ltd
416, Maetan 3Dong, Yeongtong-Gu
Suwon City Geyonggi Do 443-742
KR

24-40-AE (hex) NIIC Technology Co., Ltd.
2440AE (base 16) NIIC Technology Co., Ltd.
Room 8218, Building 3#B, No. 268 Furong Road, Jingkai District
Hefei 230601
CN

F4-0E-01 (hex) Apple, Inc.
F40E01 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

14-95-CE (hex) Apple, Inc.
1495CE (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

50-DE-06 (hex) Apple, Inc.
50DE06 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

CC-66-0A (hex) Apple, Inc.
CC660A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

FC-1D-43 (hex) Apple, Inc.
FC1D43 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

18-A4-A9 (hex) Vanu Inc.
18A4A9 (base 16) Vanu Inc.
81 Hartwell Ave
Lexington MA 02421
US

80-E8-2C (hex) Hewlett Packard
80E82C (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

B4-A2-EB (hex) IEEE Registration Authority
B4A2EB (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

68-AB-09 (hex) Nokia
68AB09 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

5C-A1-E0 (hex) EmbedWay Technologies
5CA1E0 (base 16) EmbedWay Technologies
6F, Building 8, No 2388,
Chenhang Rd, Shanghai
Shanghai 201114
CN

C4-C6-03 (hex) Cisco Systems, Inc
C4C603 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

BC-A1-3A (hex) SES-imagotag
BCA13A (base 16) SES-imagotag
St.-Peter-Gürtel 10b
Graz 8010
AT

7C-B5-9B (hex) TP-LINK TECHNOLOGIES CO.,LTD.
7CB59B (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

1C-B7-96 (hex) HUAWEI TECHNOLOGIES CO.,LTD
1CB796 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

38-47-BC (hex) HUAWEI TECHNOLOGIES CO.,LTD
3847BC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

54-92-09 (hex) HUAWEI TECHNOLOGIES CO.,LTD
549209 (base 16) HUAWEI
TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

74-59-09 (hex) HUAWEI TECHNOLOGIES CO.,LTD
745909 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park

Dongguan 523808
CN

7C-94-2A (hex) HUAWEI TECHNOLOGIES CO.,LTD
7C942A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

2C-4F-52 (hex) Cisco Systems, Inc
2C4F52 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

28-23-F5 (hex) China Mobile (Hangzhou) Information Technology Co., Ltd.
2823F5 (base 16) China Mobile (Hangzhou) Information Technology Co., Ltd.
No. 1600 Yuhangtang Road, Wuchang Street, Yuhang District
Hangzhou Zhejiang 310000
CN

F0-10-AB (hex) China Mobile (Hangzhou) Information Technology Co., Ltd.
F010AB (base 16) China Mobile
(Hangzhou) Information Technology Co., Ltd.
No. 1600 Yuhang Tong Road, Wuchang Street, Yuhang District
Hangzhou Zhejiang 310000
CN

B4-DC-09 (hex) Guangzhou Dawei Communication Co.,Ltd
B4DC09 (base 16) Guangzhou Dawei Communication Co.,Ltd
Zone A 906#, International Business Incubator, No.3 Juquan Road, Huangpu District
Guangzhou Guangdong 510660
CN

00-F6-20 (hex) Google, Inc.
00F620 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

F4-33-28 (hex) CIMCON Lighting Inc.
F43328 (base 16) CIMCON Lighting Inc.
35 Crosby Drive
Bedford MA 01730
US

5C-5A-C7 (hex) Cisco Systems, Inc
5C5AC7 (base 16) Cisco Systems, Inc

80 West Tasman Drive
San Jose CA 94568
US

B4-60-77 (hex) Sichuan Changhong Electric Ltd.
B46077 (base 16) Sichuan Changhong Electric Ltd.
No.35,East MianXin Road,MianYang,Sichaun,China.
MianYang SiChuan PRC 621000
CN

00-ED-B8
(hex) KYOCERA Corporation
00EDB8 (base 16) KYOCERA Corporation
30 Hoji
Kitami, Hokkaido 099-1595
JP

9C-99-CD (hex) Voippartners
9C99CD (base 16) Voippartners
Via di Passolombardo 35
Rome 00133
IT

C8-D6-9D (hex) Arab International Optronics
C8D69D (base 16) Arab International Optronics
El Salam St.
El Salam City Cairo 11371
EG

40-5B-D8 (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
405BD8 (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

B8-91-C9 (hex) Handreamnet
B891C9 (base 16) Handreamnet
#1203 Ace High-end Tower II, 61, Digital-ro 26-gil, Guro-Gu
Seoul 08389
KR

C8-A7-76 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C8A776 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

54-EC-2F (hex) Ruckus

Wireless
54EC2F (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

00-25-7E (hex) NEW POS TECHNOLOGY LIMITED
00257E (base 16) NEW POS TECHNOLOGY LIMITED
6FRM, 6F, China Economic Trade Building
Shenzhen Guangdong 518000
CN

A4-00-E2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A400E2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B4-C4-FC (hex) Xiaomi Communications Co Ltd
B4C4FC (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

FC-BD-67 (hex) Arista Networks
FCBD67 (base 16) Arista Networks
5453 Great America Parkway
Santa Clara CA 95054
US

98-86-5D (hex) Nokia Shanghai Bell Co., Ltd.
98865D (base 16) Nokia Shanghai Bell Co., Ltd.
No.388 Ning Qiao Road,Jin Qiao Pudong Shanghai
Shanghai 201206
CN

28-99-C7
(hex) LINDSAY BROADBAND INC
2899C7 (base 16) LINDSAY BROADBAND INC
2035 2 FISHER DRIVE
PETERBOROUGH Ontario K9J 6X6
CA

AC-DB-48 (hex) ARRIS Group, Inc.
ACDB48 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

68-A0-3E (hex) HUAWEI TECHNOLOGIES CO.,LTD
68A03E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B8-C3-85 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B8C385 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

4C-E9-E4 (hex) New H3C Technologies Co., Ltd
4CE9E4 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

C8-0D-32 (hex) Holoplot GmbH
C80D32 (base 16) Holoplot GmbH
Ringbahnstr. 12, Hof A2
Berlin 12099
DE

1C-64-99 (hex) Comtrend
Corporation
1C6499 (base 16) Comtrend Corporation
3F-1, 10 Lane 609, Chongxin Road, Section 5,
New Taipei City, Taiwan 24159
TW

48-77-46 (hex) Calix Inc.
487746 (base 16) Calix Inc.
2777 Orchard Pkwy
San Jose CA 95131
US

F8-AE-27 (hex) John Deere Electronic Solutions
F8AE27 (base 16) John Deere Electronic Solutions
1441 44th St N
Fargo ND 58102
US

C4-F7-D5 (hex) Cisco Systems, Inc
C4F7D5 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568

US

D0-57-94 (hex) Sagemcom Broadband SAS
D05794 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

74-45-CE (hex) CRESYN
7445CE (base 16) CRESYN
8-22,Jamwon-dong
Seoul Seocho-Gu #137-902
KR

04-D9-F5 (hex) ASUSTek COMPUTER INC.
04D9F5 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

10-DC-4A
(hex) Fiberhome Telecommunication Technologies Co.,LTD
10DC4A (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

4C-BC-48 (hex) Cisco Systems, Inc
4CBC48 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

48-D8-75 (hex) China TransInfo Technology Co., Ltd
48D875 (base 16) China TransInfo Technology Co., Ltd
Qianfang Building, Phase I, Zhongguancun Software Park, 8 Wangxi Road, Haidian District
Beijing 100085
CN

30-50-FD (hex) Skyworth Digital Technology(Shenzhen) Co.,Ltd
3050FD (base 16) Skyworth Digital Technology(Shenzhen) Co.,Ltd
7F,Block A,Skyworth Building,
Shenzhen Guangdong 518057
CN

88-EF-16 (hex) ARRIS Group, Inc.
88EF16 (base 16) ARRIS Group, Inc.
6450 Sequence Drive

San Diego CA 92121
US

8C-A9-6F (hex) D&M Holdings Inc.
8CA96F (base 16) D&M Holdings Inc.
D&M Building, 2-1
Nisshin-cho
Kawasaki-shi Kanagawa 210-8569
JP

98-B8-BA (hex) LG Electronics (Mobile Communications)
98B8BA (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

7C-D6-61 (hex) Xiaomi Communications Co Ltd
7CD661 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

B0-FD-0B (hex) IEEE Registration Authority
B0FD0B (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

00-40-BC (hex) ALGORITHMICS LTD.
0040BC (base 16) ALGORITHMICS LTD.
3 DRAYTON PARK
ENGLAND
GB

00-40-65 (hex) GTE SPACENET
004065 (base 16) GTE SPACENET
1700 OLD MEADOW ROAD
MCLEAN VA 22102
US

18-20-D5 (hex) ARRIS Group, Inc.
1820D5 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

F4-2E-7F (hex) Aruba,

a Hewlett Packard Enterprise Company
F42E7F (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

B4-CC-04 (hex) Piranti
B4CC04 (base 16) Piranti
126, Beolmal-ro
Dongan-gu, Anyang-si, Gyeonggi-do 14057
KR

38-D2-CA (hex) Zhejiang Tmall Technology Co., Ltd.
38D2CA (base 16) Zhejiang Tmall Technology Co., Ltd.
Ali Center,No.3331 Keyuan South RD (Shenzhen bay), Nanshan District, Shenzhen Guangdong province
Shenzhen GuangDong 518000
CN

10-9E-3A (hex) Zhejiang Tmall Technology Co., Ltd.
109E3A (base 16) Zhejiang Tmall Technology Co., Ltd.
Ali Center,No.3331 Keyuan South RD (Shenzhen bay), Nanshan District,
Shenzhen Guangdong 518000
CN

78-DA-07 (hex) Zhejiang Tmall Technology Co., Ltd.
78DA07 (base 16) Zhejiang Tmall Technology Co., Ltd.
Ali Center,No.3331 Keyuan South RD (Shenzhen bay), Nanshan District,
Shenzhen Guangdong 518000
CN

44-A6-1E
(hex) INGRAM MICRO SERVICES
44A61E (base 16) INGRAM MICRO SERVICES
100 CHEMIN DE BAILLOT
MONTAUBAN 82000
FR

0C-E9-9A (hex) ATLS ALTEC
0CE99A (base 16) ATLS ALTEC
3 RUE DE LA GUIVERNONE ZI DU VERT GALANT
ST OUEN L AUMONE 95310
FR

4C-11-AE (hex) Espressif Inc.
4C11AE (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

8C-89-FA (hex) Zhejiang Hechuan Technology Co., Ltd.
8C89FA (base 16) Zhejiang Hechuan Technology Co., Ltd.
No. 9, Fucai Road, Longyou Industrial Zone
Quzhou Zhejiang 324000
CN

D4-78-9B (hex) Cisco Systems, Inc
D4789B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

48-3F-E9 (hex) HUAWEI TECHNOLOGIES CO.,LTD
483FE9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

14-3C-C3 (hex) HUAWEI TECHNOLOGIES
CO.,LTD
143CC3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-E5-44 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A8E544 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

50-C4-DD (hex) BUFFALO.INC
50C4DD (base 16) BUFFALO.INC
AKAMONDORI Bld.,30-20,Ohsu 3-chome,Naka-ku
Nagoya Aichi Pref. 460-8315
JP

90-4D-C3 (hex) Flonidan A/S
904DC3 (base 16) Flonidan A/S
Islandsvej 29
Horsens 8700
DK

00-0D-F1 (hex) IONIX INC.
000DF1 (base 16) IONIX INC.
Ssangyong IT Twin Tower 604, 442-17, Sangdaewon-dong, Jungwon-gu,
Seongnam-si Gyeonggi-do 462-120

KR

00-07-7C (hex) Westermo Network Technologies AB
00077C (base 16) Westermo Network Technologies AB
Stora Sundby
Sweden SE-640 40
SE

E0-02-A5 (hex) ABB Robotics
E002A5 (base 16) ABB
Robotics
Hydrovägen 10
Västerås 721 68
SE

B8-D5-26 (hex) Zyxel Communications Corporation
B8D526 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

EC-AD-E0 (hex) D-Link International
ECADE0 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

F0-B9-68 (hex) ITEL MOBILE LIMITED
F0B968 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

04-E5-6E (hex) THUB Co., ltd.
04E56E (base 16) THUB Co., ltd.
#607 2, Busandaehak-ro 63beon-gil, Geumjeong-gu
Busan 46241
KR

1C-7F-2C (hex) HUAWEI TECHNOLOGIES CO.,LTD
1C7F2C (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

88-BC-C1 (hex) HUAWEI TECHNOLOGIES
CO.,LTD
88BCC1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

8C-42-6D (hex) HUAWEI TECHNOLOGIES CO.,LTD
8C426D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-BF-3C (hex) HDV Phoelectron Technology Limited
A8BF3C (base 16) HDV Phoelectron Technology Limited
Room 1103, Hang Seng Mongkok Building, 677 Nathan Road,Mongkok
Kowloon Hong Kong 518103
CN

D4-F5-27 (hex) SIEMENS AG
D4F527 (base 16) SIEMENS AG
Oestliche Rheinbrückenstraße 50
Karlsruhe Baden-Württemberg 76181
DE

1C-BF-CE (hex) Shenzhen Century Xinyang Technology Co., Ltd
1CBFCE (base 16) Shenzhen Century Xinyang Technology Co., Ltd
3F, North Building, Bantian High-tech industrial Zone, No. 2 of Bell Road
Shenzhen Guangdong 518129
CN

F8-30-02 (hex) Texas Instruments
F83002
(base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

A8-A1-59 (hex) ASRock Incorporation
A8A159 (base 16) ASRock Incorporation
2F., No. 37, Sec. 2, Jhongyang S. Rd., Beitou District,
Taipei 112
TW

54-62-E2 (hex) Apple, Inc.
5462E2 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

14-9D-99 (hex) Apple, Inc.

149D99 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B8-B2-F8 (hex) Apple, Inc.
B8B2F8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

98-46-0A (hex) Apple, Inc.
98460A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B8-5D-0A (hex) Apple, Inc.
B85D0A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

7C-9A-1D (hex) Apple, Inc.
7C9A1D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

10-30-25 (hex) Apple, Inc.
103025 (base 16) Apple,
Inc.
1 Infinite Loop
Cupertino CA 95014
US

70-AC-D7 (hex) Shenzhen YOUHUA Technology Co., Ltd
70ACD7 (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

20-2A-C5 (hex) Petite-En
202AC5 (base 16) Petite-En
1, Gwanak-ro, Gwanak-gu
Seoul 08826
KR

14-7B-AC (hex) Nokia
147BAC (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

CC-DC-55 (hex) Dragonchip Limited
CCDC55 (base 16) Dragonchip Limited
Room 601-2, 6/F, IC Development Centre, No. 6 Science Park West Avenue, Hong Kong Science Park, Shatin, N.T.
Hong Kong NA
HK

A4-C3-F0 (hex) Intel Corporate
A4C3F0 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

74-5B-C5 (hex) IEEE Registration Authority
745BC5 (base 16) IEEE Registration Authority
445 Hoes
Lane
Piscataway NJ 08554
US

94-40-C9 (hex) Hewlett Packard Enterprise
9440C9 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

90-6D-05 (hex) BXB ELECTRONICS CO., LTD
906D05 (base 16) BXB ELECTRONICS CO., LTD
6F.-1, NO.288-5, Xinya Rd., Qianzhen Dist.
Kaohsiung 80673
TW

D4-BB-C8 (hex) vivo Mobile Communication Co., Ltd.
D4BBC8 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

48-95-07 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
489507 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

28-FF-B2 (hex) Toshiba Corp.
28FFB2 (base 16) Toshiba Corp.
1-1 Shibaura 1-Chome, Minato-Ku
Tokyo 105-8001
JP

1C-60-D2 (hex) Fiberhome Telecommunication Technologies Co.,LTD
1C60D2 (base 16) Fiberhome Telecommunication
Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

F4-B5-AA (hex) zte corporation
F4B5AA (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

E8-AC-AD (hex) zte corporation
E8ACAD (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

44-5D-5E (hex) SHENZHEN Coolkit Technology CO.,LTD
445D5E (base 16) SHENZHEN Coolkit Technology CO.,LTD
B09 2nd Floor, T6 ArtZone XiLi, Nanshan Dist
shenzhen guangdong 518110
CN

A0-41-A7 (hex) NL Ministry of Defense
A041A7 (base 16) NL Ministry of Defense
PO Box 10000
Noord Holland 1780 CA Den Helder
NL

D8-55-75 (hex) Samsung Electronics Co.,Ltd
D85575 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D4-11-A3 (hex) Samsung Electronics Co.,Ltd
D411A3 (base 16) Samsung
Electronics Co.,Ltd
#94-1, Imsoo-Dong

Gumi Gyeongbuk 730-350
KR

04-BA-8D (hex) Samsung Electronics Co.,Ltd
04BA8D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

08-36-C9 (hex) NETGEAR
0836C9 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

E4-46-DA (hex) Xiaomi Communications Co Ltd
E446DA (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

1C-12-B0 (hex) Amazon Technologies Inc.
1C12B0 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

4C-BC-98 (hex) IEEE Registration Authority
4CBC98 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

58-D9-C3 (hex) Motorola Mobility LLC, a Lenovo Company
58D9C3 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise
Mart Plaza
Chicago IL 60654
US

2C-F4-32 (hex) Espressif Inc.
2CF432 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

64-73-66 (hex) Shenzhen Siera Technology Ltd
647366 (base 16) Shenzhen Siera Technology Ltd

Room 2039, Shenhai Building, Wanzhong Village, Bulong Road, Minzhi, Longhua district, City: Shenzhen
Shenzhen Guangdong 518131
CN

E0-5A-9F (hex) IEEE Registration Authority
E05A9F (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

2C-55-7C (hex) Shenzhen YOUHUA Technology Co., Ltd
2C557C (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

F4-BC-DA (hex) Shenzhen Jingxun Software Telecommunication Technology Co.,Ltd
F4BCDA (base 16) Shenzhen Jingxun Software Telecommunication Technology Co.,Ltd
3/F,A5 Building Zhiyuan Community No.1001,Xueyuan Road Nanshan District
Shenzhen Guangdong 518055
CN

00-09-15 (hex) CAS Corp.
000915 (base 16) CAS Corp.
#19, Ganap-Ri
Yangju-Gun Kyunggi-Do 482-841
KR

8C-5A-F8 (hex) Beijing Xiaomi Electronics Co., Ltd.
8C5AF8 (base 16) Beijing Xiaomi Electronics Co., Ltd.
Building C, QingHe ShunShiJiaYe Technology Park, #66 ZhuFang Rd, HaiDian District
Beijing Beijing 10085
CN

D4-58-00 (hex) Fiberhome Telecommunication Technologies Co.,LTD
D45800 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

74-4D-28 (hex) Routerboard.com
744D28 (base 16) Routerboard.com
Mikrotikls SIA
Riga Riga LV1009
LV

A4-11-62 (hex) Arlo Technology

A41162 (base 16) Arlo Technology
3030 Orchard Parkway
San Jose CA 95134
US

04-1E-FA (hex) BISSELL Homecare, Inc.
041EFA (base 16) BISSELL
Homecare, Inc.
2345 Walker Ave NW
Grand Rapids MI 49544
US

2C-73-A0 (hex) Cisco Systems, Inc
2C73A0 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

44-3E-07 (hex) Electrolux
443E07 (base 16) Electrolux
Corso Lino Zanussi 24
Porcia PORDENONE 33080
IT

90-84-2B (hex) LEGO System A/S
90842B (base 16) LEGO System A/S
Aastvej 1
Billund DK-7190
DK

00-26-7E (hex) PARROT SA
00267E (base 16) PARROT SA
174 Quai de Jemmapes
Paris 75010
FR

D4-7B-35 (hex) NEO Monitors AS
D47B35 (base 16) NEO Monitors AS
PoBox 384
Loerenskog Loerenskog 1471
NO

00-08-78 (hex) Benchmark Storage Innovations
000878 (base 16) Benchmark Storage Innovations
3122 Sterling Circle
Boulder CO 80301
US

6C-F3-7F (hex) Aruba, a Hewlett Packard Enterprise Company
6CF37F (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa
Clara CA 95054
US

18-64-72 (hex) Aruba, a Hewlett Packard Enterprise Company
186472 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

00-17-A0 (hex) RoboTech srl
0017A0 (base 16) RoboTech srl
Via Mazzini 82
Sarzana (SP) I-19038
IT

00-0A-A8 (hex) ePipe Pty. Ltd.
000AA8 (base 16) ePipe Pty. Ltd.
P.O. Box 1428
Brisbane Queensland 4066
AU

00-29-C2 (hex) Cisco Systems, Inc
0029C2 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

18-7C-0B (hex) Ruckus Wireless
187C0B (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

48-5D-36 (hex) Verizon
485D36 (base 16) Verizon
One Verizon Way
Basking Ridge NJ 07030
US

20-C0-47 (hex) Verizon
20C047 (base 16) Verizon
One Verizon Way
Basking Ridge 07030
US

34-6B-46 (hex) Sagemcom Broadband SAS
346B46
(base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

84-85-E6 (hex) Guangdong Asano Technology CO.,Ltd.
8485E6 (base 16) Guangdong Asano Technology CO.,Ltd.
Changsheng Road, Songxia Industrial Park, Songgang, Shishan Town, Nanhai
Foshan Guangdong, China. 528200
CN

3C-83-75 (hex) Microsoft Corporation
3C8375 (base 16) Microsoft Corporation
1 Microsoft Way
Redmond Washington 98052
FI

84-D4-7E (hex) Aruba, a Hewlett Packard Enterprise Company
84D47E (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

24-DE-C6 (hex) Aruba, a Hewlett Packard Enterprise Company
24DEC6 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

78-A7-EB (hex) 1MORE
78A7EB (base 16) 1MORE
TianliaoBuilding F14
New Materials Industrial Park,Xueyuan Blvd
Shenzhen, Nanshan District 518005
CN

7C-60-4A (hex) Avelon
7C604A (base 16) Avelon
Bändliweg 20
Zurich 8048
CH

70-2B-1D (hex) E-Domus International Limited
702B1D (base 16) E-Domus International Limited
1st Floor

London W1W 7BL
GB

F0-85-C1 (hex) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
F085C1 (base 16) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
Bldg56A,6/F,Baotian Rd3,Xixiang Town,Baoan District,
Shenzhen Guangdong 518000
CN

10-3D-0A (hex) Hui Zhou Gaoshengda Technology Co.,LTD
103D0A (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

94-27-90 (hex) TCT mobile ltd
942790 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

A4-17-91 (hex) Shenzhen Decnta Technology Co.,LTD.
A41791 (base 16) Shenzhen Decnta Technology Co.,LTD.
F13,No.02,Building
Shangqi,Nanhaidadao 4050 Nanshan District,Shenzhen,P.R.China
shenzhen Guangdong 518057
CN

D4-AD-71 (hex) Cisco Systems, Inc
D4AD71 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E8-4C-56 (hex) INTERCEPT SERVICES LIMITED
E84C56 (base 16) INTERCEPT SERVICES LIMITED
Bates Mill, Colne Road
Huddersfield North Yorkshire HD1 3AG
GB

10-9C-70 (hex) Prusa Research s.r.o.
109C70 (base 16) Prusa Research s.r.o.
Partyzanska 188/7a
Prague 17000
CZ

34-DA-B7 (hex) zte corporation
34DAB7 (base 16) zte corporation

12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

A4-19-08 (hex) Fiberhome Telecommunication Technologies Co.,LTD
A41908 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

00-14-A5 (hex) Gemtek Technology Co., Ltd.
0014A5 (base 16) Gemtek Technology
Co., Ltd.
No. 1 Jen Ai Road
Hukou, Hsinchu 303
TW

C0-B5-D7 (hex) CHONGQING FUGUI ELECTRONICS CO.,LTD.
C0B5D7 (base 16) CHONGQING FUGUI ELECTRONICS CO.,LTD.
Building D21,No.1, East Zone 1st Road,Xiyong Town,Shapingba District
Chongqing Chongqing 401332
CN

80-D3-36 (hex) CERN
80D336 (base 16) CERN
CH-1211
GENEVE SUISSE/SWITZ 023
CH

64-25-5E (hex) Observint Technologies, Inc.
64255E (base 16) Observint Technologies, Inc.
11000 N Mopac Expressway Suite 300
Austin TX 78759
US

90-94-0A (hex) Analog Devices, Inc
90940A (base 16) Analog Devices, Inc
Unit 2200, Airport Business Park, Kinsale Road
Cork T12 X36X
IE

40-B0-76 (hex) ASUSTek COMPUTER INC.
40B076 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

D4-3D-39 (hex) Dialog Semiconductor

D43D39 (base 16) Dialog Semiconductor
B-7F, SiliconPark, 35,
Pangyo-ro 255beon-gil, Bundang-gu
Seongnam-si Gyeonggi-do 13486
KR

4C-21-8C (hex) Panasonic India Private limited
4C218C (base 16) Panasonic India Private limited
12th floor, Ambience tower, Ambience Island
Gurgaon Haryana 122002
IN

60-38-0E (hex) ALPSALPINE CO,.LTD
60380E (base 16) ALPSALPINE CO,.LTD
1-2-1, Okinouchi
Soma-city Fukushima 976-8501
JP

FC-62-B9 (hex) ALPSALPINE CO,.LTD
FC62B9 (base 16) ALPSALPINE CO,.LTD
6-1
kakuda-city Miyagi-Pref 981-1595
JP

00-02-C7 (hex) ALPSALPINE CO,.LTD
0002C7 (base 16) ALPSALPINE CO,.LTD
1-2-1, Okinouchi, Sama-City,
Sama 00000
JP

00-1E-3D (hex) ALPSALPINE CO,.LTD
001E3D (base 16) ALPSALPINE CO,.LTD
1-2-1, Okinouchi,
Soma-city, Fukushima-pref., 976-8501
JP

28-A1-83 (hex) ALPSALPINE CO,.LTD
28A183 (base 16) ALPSALPINE CO,.LTD
6-1
Kakuda Miyagi-Pref 981-1595
JP

48-F0-7B (hex) ALPSALPINE CO,.LTD
48F07B
(base 16) ALPSALPINE CO,.LTD
6-1
Kakuda Miyagi-Pref 981-1595
JP

4C-DD-7D (hex) LHP Telematics LLC
4CDD7D (base 16) LHP Telematics LLC
17406 Tiller Ct. STE 100
westfield IN 46074
US

B8-BC-5B (hex) Samsung Electronics Co.,Ltd
B8BC5B (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

CC-70-ED (hex) Cisco Systems, Inc
CC70ED (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

90-7E-30 (hex) LARS
907E30 (base 16) LARS
Swierkowa 14
Niepruszewo 64-320
PL

10-8E-BA (hex) Molekule
108EBA (base 16) Molekule
1184 Harrison Street
San Francisco 94103
US

94-A4-0C (hex) Diehl Metering GmbH
94A40C (base 16) Diehl Metering GmbH
Industriestrasse 13
Ansbach 91522
DE

70-B3-17 (hex) Cisco Systems, Inc
70B317 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose
CA 94568
US

B0-02-47 (hex) AMPAK Technology, Inc.
B00247 (base 16) AMPAK Technology, Inc.
3F.,No.15-1 Zhonghua Road,Hsinchu Industrial Park, Hukou,Hsinchu
Hsinchu Taiwan ROC. 30352

TW

BC-E7-96 (hex) Wireless CCTV Ltd
BCE796 (base 16) Wireless CCTV Ltd
charles Babbage house
Rochdale Greater Manchester ol164nw
GB

2C-4E-7D (hex) Chunghua Intelligent Network Equipment Inc.
2C4E7D (base 16) Chunghua Intelligent Network Equipment Inc.
2F-3, No.5, Sec. 3, New Taipei Blvd.,, XinZhung Dist,
New Taipei City 242
TW

A4-F4-65 (hex) ITEL MOBILE LIMITED
A4F465 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

18-B9-05 (hex) Hong Kong Bouffalo Lab Limited
18B905 (base 16) Hong Kong Bouffalo Lab Limited
RM 1903, 19/F Lee Garden One 33 Hysan Avenue, Causeway Bay
HongKong 999077
HK

F4-8C-EB
(hex) D-Link International
F48CEB (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

74-3A-65 (hex) NEC Corporation
743A65 (base 16) NEC Corporation
7-1, Shiba 5-chome, Minato-ku
Tokyo 108-8001
JP

00-25-5C (hex) NEC Corporation
00255C (base 16) NEC Corporation
1753, Shimonumabe, Nakahara-Ku, Kawasaki
Kanagawa 211-8666
JP

4C-91-7A (hex) IEEE Registration Authority
4C917A (base 16) IEEE Registration Authority
445 Hoes Lane

Piscataway NJ 08554
US

84-EB-3E (hex) Vivint Smart Home
84EB3E (base 16) Vivint Smart Home
4931 N. 300 W.
Provo UT 84604
US

D8-CE-3A (hex) Xiaomi Communications Co Ltd
D8CE3A (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

B0-90-7E (hex) Cisco Systems, Inc
B0907E (base 16) Cisco
Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

EC-F0-FE (hex) zte corporation
ECF0FE (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

18-BB-26 (hex) FN-LINK TECHNOLOGY LIMITED
18BB26 (base 16) FN-LINK TECHNOLOGY LIMITED
A Building,HuiXin industial park,No 31, YongHe road, Fuyong town, Bao'an District
SHENZHEN GUANGDONG 518100
CN

9C-82-75 (hex) Yichip Microelectronics (Hangzhou) Co.,Ltd
9C8275 (base 16) Yichip Microelectronics (Hangzhou) Co.,Ltd
Room 401, Building 15, No.498 Guoshoujing Road, Pudong Software Park
Shanghai 200120
CN

5C-CB-CA (hex) FUJIAN STAR-NET COMMUNICATION CO.,LTD
5CCBCA (base 16) FUJIAN STAR-NET COMMUNICATION CO.,LTD
19-22# Building, Star-net Science Plaza, Juyuanzhou,
FUZHOU FUJIAN 350002
CN

28-E9-8E (hex) Mitsubishi Electric Corporation
28E98E (base 16) Mitsubishi Electric Corporation

2-7-3
Marunouchi Chiyoda-ku
Tokyo 100-8310
JP

34-F8-E7 (hex) Cisco Systems, Inc
34F8E7 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

C0-9A-D0 (hex) Apple, Inc.
C09AD0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

94-B0-1F (hex) Apple, Inc.
94B01F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

98-CC-4D (hex) Shenzhen mantunsci co., LTD
98CC4D (base 16) Shenzhen mantunsci co., LTD
3 floor, 3 environmental protection industrial park, Nanshan District
Shenzhen Guangdong 518000
CN

B8-C7-4A (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
B8C74A (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

94-8F-CF (hex) ARRIS Group, Inc.
948FCF (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

A8-F5-DD
(hex) ARRIS Group, Inc.
A8F5DD (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

44-D3-AD (hex) Shenzhen TINNO Mobile Technology Corp.
44D3AD (base 16) Shenzhen TINNO Mobile Technology Corp.
Building, No.33, Xiandong Rd, Xili
Nanshan District, Shenzhen PRC 518053
CN

74-85-C4 (hex) New H3C Technologies Co., Ltd
7485C4 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

94-F6-D6 (hex) Apple, Inc.
94F6D6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F8-2D-7C (hex) Apple, Inc.
F82D7C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D0-BA-E4 (hex) Shanghai MXCHIP Information Technology Co., Ltd.
D0BAE4 (base 16) Shanghai MXCHIP Information Technology Co., Ltd.
Room 811,Tongpu Building
Shanghai Shanghai 200333
CN

C8-2E-47 (hex) Suzhou SmartChip Semiconductor
Co., LTD
C82E47 (base 16) Suzhou SmartChip Semiconductor Co., LTD
9A,Science Plaza,1355 JinJiHu Avenue, Suzhou Industrial Park,
Suzhou Jiangsu 215021
CN

C0-22-50 (hex) Koss Corporation
C02250 (base 16) Koss Corporation
4129 N. Port Washington Ave.
Milwaukee WI 53212
US

04-33-85 (hex) Nanchang BlackShark Co.,Ltd.
043385 (base 16) Nanchang BlackShark Co.,Ltd.
Room 319, Jiaoqiao Town Office Building, Economic and Technical development zone, Nanchang City, Jiangxi Province.
Nanchang 330013

CN

04-CE-7E (hex) NXP France Semiconductors France
04CE7E (base 16) NXP France Semiconductors France
Parc les Algorithmes,Saint Aubin
Gif sur Yvette 91193
FR

50-8C-F5 (hex) China Mobile Group Device Co.,Ltd.
508CF5 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

1C-54-9E (hex) Universal Electronics, Inc.
1C549E (base 16) Universal
Electronics, Inc.
201 E. Sandpointe Ave
Santa Ana CA 92707
US

78-23-27 (hex) Samsung Electronics Co.,Ltd
782327 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

DC-F7-56 (hex) Samsung Electronics Co.,Ltd
DCF756 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

2C-A0-2F (hex) Veroguard Systems Pty Ltd
2CA02F (base 16) Veroguard Systems Pty Ltd
PO Box 5003
Clayton VIC 3168
AU

A0-B5-49 (hex) Arcadyan Corporation
A0B549 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

00-1F-5A (hex) Beckwith Electric Co.
001F5A (base 16) Beckwith Electric Co.
6190 118th Ave No

Largo Florida 33773
US

98-5D-82 (hex) Arista Networks
985D82 (base 16) Arista Networks
5453 Great America Parkway
Santa Clara CA 95054
US

2C-73-60 (hex) Earda Technologies co
Ltd
2C7360 (base 16) Earda Technologies co Ltd
Block A,Lianfeng Creative Park, #2 Jisheng Rd., Nansha District
Guangzhou Guangdong 511455
CN

E4-CA-12 (hex) zte corporation
E4CA12 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

D4-9E-05 (hex) zte corporation
D49E05 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

58-5F-F6 (hex) zte corporation
585FF6 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

40-B3-0E (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
40B30E (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

C0-13-2B (hex) Sichuan Changhong Electric Ltd.
C0132B (base 16) Sichuan Changhong Electric Ltd.
No.35,East
MianXin Road,MianYang,Sichaun,China.
MianYang SiChuan PRC 621000
CN

0C-B4-A4 (hex) Xintai Automobile Intelligent Network Technology

0CB4A4 (base 16) Xintai Automobile Intelligent Network Technology
Room3703E Changfu Jinmao BuildingShihua Road
Futian Duty Free ZoneFubao StreetFutian District Shenzhen City 518000
CN

90-63-3B (hex) Samsung Electronics Co.,Ltd
90633B (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

FC-AA-B6 (hex) Samsung Electronics Co.,Ltd
FCAAB6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

24-53-BF (hex) Enernet
2453BF (base 16) Enernet
1007 B-dong, Hyundai Knowledge Industry Center, 70 Dusan-ro, Geumcheon-gu, Seoul, KOREA
SEOUL 08584
KR

10-2C-6B (hex) AMPAK Technology, Inc.
102C6B (base 16) AMPAK Technology, Inc.
3F.,No.15-1 Zhonghua Road,Hsinchu Industrial Park, Hukou,Hsinchu, Taiwan
(R.O.C.)
Hsinchu Taiwan ROC. 30352
TW

A8-BC-9C (hex) Cloud Light Technology Limited
A8BC9C (base 16) Cloud Light Technology Limited
3/F, 6 Science Park East Avenue Hong Kong Science Park Shatin, N.T., Hong Kong
Hong Kong 00000
HK

A8-90-42 (hex) Beijing Wanwei Intelligent Technology Co., Ltd.
A89042 (base 16) Beijing Wanwei Intelligent Technology Co., Ltd.
Room 616, Section 1, Cuicing, No. 1 Shanyuan Street, Haidian District
Beijing Beijing 100000
CN

18-BE-92 (hex) Delta Networks, Inc.
18BE92 (base 16) Delta Networks, Inc.
256 Yang Guang Street, Neihu
Taipei Taiwan 11491
TW

D0-92-FA (hex) Fiberhome Telecommunication Technologies Co.,LTD
D092FA (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

E8-5A-D1 (hex) Fiberhome Telecommunication Technologies Co.,LTD
E85AD1 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5
DongXin Road
Wuhan Hubei 430074
CN

90-C5-4A (hex) vivo Mobile Communication Co., Ltd.
90C54A (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

BC-75-96 (hex) Beijing Broadwit Technology Co., Ltd.
BC7596 (base 16) Beijing Broadwit Technology Co., Ltd.
Beijing Changping District Beijing International Information Industry Base Jizhida Building 3rd Floor Southeast
Beijing Beijing 10000
CN

68-A4-7D (hex) Sun Cupid Technology (HK) LTD
68A47D (base 16) Sun Cupid Technology (HK) LTD
16/F, CEO Tower, 77 Wing Hong Street, Kowloon
Hong Kong 00000
HK

18-4B-0D (hex) Ruckus Wireless
184B0D (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

D4-12-43 (hex) AMPAK Technology, Inc.
D41243 (base 16) AMPAK Technology, Inc.
No.1,Jen Ai Road Hsinchu Industrial Park, Hukou
Hsinchu Taiwan ROC. 30352
TW

48-A6-B8
(hex) Sonos, Inc.
48A6B8 (base 16) Sonos, Inc.
614 Chapala St
Santa Barbara CA 93101

US

B8-78-26 (hex) Nintendo Co.,Ltd
B87826 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

DC-CB-A8 (hex) Explora Technologies Inc
DCCBA8 (base 16) Explora Technologies Inc
360, Franquet Street
Quebec G1P 4N3
CA

6C-5C-3D (hex) IEEE Registration Authority
6C5C3D (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

84-E5-D8 (hex) Guangdong UNIPOE IoT Technology Co.,Ltd.
84E5D8 (base 16) Guangdong UNIPOE IoT Technology Co.,Ltd.
11th Fl., BLDG. B1, Guangda WE Valley, Songshan Lake District
Dongguan Guangdong 523808
CN

C0-78-78 (hex) FLEXTRONICS MANUFACTURING(ZHUHAI)CO.,LTD.
C07878 (base 16) FLEXTRONICS MANUFACTURING(ZHUHAI)CO.,LTD.
Xin Qing Science & Technology Industrial Park,Jin An Town,Doumen ,Zhuhai,Guangdong,PRC
Zhuhai
Guangdong 519180
CN

34-DA-C1 (hex) SAE Technologies Development(Dongguan) Co., Ltd.
34DAC1 (base 16) SAE Technologies Development(Dongguan) Co., Ltd.
Winnerway Industrial Area,Nancheng
Dongguan City Guangdong Province 523087
CN

50-76-AF (hex) Intel Corporate
5076AF (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

E0-46-E5 (hex) Gosuncn Technology Group Co., Ltd.
E046E5 (base 16) Gosuncn Technology Group Co., Ltd.
6F, 2819 KaiChuang Blvd., Science Town, Huangpu District

Guangzhou City Guangdong 510530
CN

1C-34-DA (hex) Mellanox Technologies, Inc.
1C34DA (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

BC-26-C7 (hex) Cisco Systems, Inc
BC26C7 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

BC-5E-A1 (hex) PsiKick, Inc.
BC5EA1 (base 16) PsiKick, Inc.
2348
Walsh Ave
Santa Clara CA 95051
US

D4-BD-1E (hex) 5VT Technologies,Taiwan LTd.
D4BD1E (base 16) 5VT Technologies,Taiwan LTd.
6F,No.19-9,SanChong Rd.,Nangang Dist,
Taipei 11501
TW

CC-D4-A1 (hex) MitraStar Technology Corp.
CCD4A1 (base 16) MitraStar Technology Corp.
No. 6, Innovation Road II,
Hsinchu 300
TW

08-BA-5F (hex) Qingdao Hisense Electronics Co.,Ltd.
08BA5F (base 16) Qingdao Hisense Electronics Co.,Ltd.
Qianwangang Roard 218
Qingdao Shandong 266510
CN

10-DF-FC (hex) Siemens AG
10DFFC (base 16) Siemens AG
Siemensstrasse 10
Regensburg 93055
DE

84-7F-3D (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
847F3D (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.

Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

30-E3-D6 (hex) Spotify USA Inc.
30E3D6 (base 16) Spotify USA Inc.
45 West 18th Street
New York NY 10011
US

9C-A5-25
(hex) Shandong USR IOT Technology Limited
9CA525 (base 16) Shandong USR IOT Technology Limited
Floor 11,Building 1,No.1166 Xinluo Street,Gaoxin District,Jinan,Shandong,250101,China
Jinan Shandong 250101
CN

E0-45-6D (hex) China Mobile Group Device Co.,Ltd.
E0456D (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

28-39-26 (hex) CyberTAN Technology Inc.
283926 (base 16) CyberTAN Technology Inc.
99 Park Ave III, Hsinchu Science Park
Hsinchu 308
TW

C4-FD-E6 (hex) DRTECH
C4FDE6 (base 16) DRTECH
29, Dunchon-daero 541beon-gil, Jungwon-gu
Seongnam Gyeonggi-do 13216
KR

CC-98-8B (hex) SONY Visual Products Inc.
CC988B (base 16) SONY Visual Products Inc.
2-10-1 Osaki
Shinagawa-ku Tokyo 141-8610
JP

70-5D-CC (hex) EFM Networks
705DCC (base 16) EFM Networks
6F, Benposra II 1197-1 Bojeong Giheung Gu
Yong In
Kyunggi do 446913
KR

A8-23-FE (hex) LG Electronics
A823FE (base 16) LG Electronics
222 LG-ro, JINWI-MYEON
Pyeongtaek-si Gyeonggi-do 451-713
KR

E0-5D-5C (hex) Oy Everon Ab
E05D5C (base 16) Oy Everon Ab
Teräskatu 8
Turku 20520
FI

8C-FC-A0 (hex) Shenzhen Smart Device Technology Co., LTD.
8CFCA0 (base 16) Shenzhen Smart Device Technology Co., LTD.
SSMEC Building,Gao Xin Nan First Avenue Hi-Tech Park South,Nanshan
Shenzhen GuangDong 518057
CN

94-4F-4C (hex) Sound United LLC
944F4C (base 16) Sound United LLC
One Viper Way
Vista CA 92081
US

18-81-0E (hex) Apple, Inc.
18810E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

60-8C-4A (hex) Apple, Inc.
608C4A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

24-1B-7A (hex) Apple, Inc.
241B7A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

8C-FE-57
(hex) Apple, Inc.
8CFE57 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C0-A6-00 (hex) Apple, Inc.
C0A600 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

74-B5-87 (hex) Apple, Inc.
74B587 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

FC-B6-D8 (hex) Apple, Inc.
FCB6D8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

3C-6A-2C (hex) IEEE Registration Authority
3C6A2C (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

1C-59-9B (hex) HUAWEI TECHNOLOGIES CO.,LTD
1C599B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

80-69-33 (hex) HUAWEI TECHNOLOGIES CO.,LTD
806933 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

68-8F-2E
(hex) Hitron Technologies. Inc
688F2E (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

E0-C2-86 (hex) Aisai Communication Technology Co., Ltd.
E0C286 (base 16) Aisai Communication Technology Co., Ltd.
Room 2610 Asia Trade Centre,
Kwai Chung N.T. 852

HK

F0-B0-14 (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
F0B014 (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

D8-0D-17 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
D80D17 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

74-05-A5 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
7405A5 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology
Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

28-6D-CD (hex) Beijing Winner Microelectronics Co.,Ltd.
286DCD (base 16) Beijing Winner Microelectronics Co.,Ltd.
Floor 18, YinDu Building, No.67 FuCheng Road, HaiDian District
Beijing 100142
CN

54-10-31 (hex) SMARTO
541031 (base 16) SMARTO
25 QUAI GALLIENI
SURESNES HAUT DE SEINE 92150
FR

44-A4-66 (hex) GROUPE LDLC
44A466 (base 16) GROUPE LDLC
Groupe LDLC - 2 rue des Erables
LIMONEST Rhone 69760
FR

18-89-A0 (hex) Wuhan Funshion Online Technologies Co.,Ltd
1889A0 (base 16) Wuhan Funshion Online Technologies Co.,Ltd
5th Floor,Financial Port Building A9,No.77 Optical Valley Avenue, East Lake High-Tech Development Zone, Wuhan
Wuhan CN/Hubei 430000
CN

1C-42-7D (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
1C427D (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD

NO.18 HAIBIN ROAD,
DONG GUAN
GUANG DONG 523860
CN

18-C2-BF (hex) BUFFALO.INC
18C2BF (base 16) BUFFALO.INC
AKAMONDORI Bld.,30-20,Ohsu 3-chome,Naka-ku
Nagoya Aichi Pref. 460-8315
JP

0C-2A-86 (hex) Fiberhome Telecommunication Technologies Co.,LTD
0C2A86 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

FC-61-E9 (hex) Fiberhome Telecommunication Technologies Co.,LTD
FC61E9 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

40-56-62 (hex) GuoTengShengHua Electronics LTD.
405662 (base 16) GuoTengShengHua Electronics LTD.
1st floor,No. 15 of Tech North 2nd Road,Nanshan District,
Shenzhen Guangdong 518000
CN

E4-DB-6D (hex) Beijing Xiaomi Electronics Co., Ltd.
E4DB6D (base 16) Beijing Xiaomi Electronics Co., Ltd.
Building C, QingHe ShunShiJiaYe Technology Park, #66 ZhuFang Rd, HaiDian District
Beijing Beijing 10085
CN

0C-53-31
(hex) ETH Zurich
0C5331 (base 16) ETH Zurich
Dept. Computer Science, Universitätstr. 6
Zurich ZH 8092
CH

0C-9A-42 (hex) FN-LINK TECHNOLOGY LIMITED
0C9A42 (base 16) FN-LINK TECHNOLOGY LIMITED
A Building,HuiXin industial park,No 31, YongHe road, Fuyong town, Bao'an District
SHENZHEN GUANGDONG 518100
CN

54-81-2D (hex) PAX Computer Technology(Shenzhen) Ltd.
54812D (base 16) PAX Computer Technology(Shenzhen) Ltd.
4/F, No.3 Building, Software Park, Second Central Science-Tech Road, High-Tech
Shenzhen GuangDong 518057
CN

DC-90-88 (hex) HUAWEI TECHNOLOGIES CO.,LTD
DC9088 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-A0-D1 (hex) INVENTEC CORPORATION
00A0D1 (base 16) INVENTEC CORPORATION
INVENTEC BUILDING
TAIWAN TAIWAN R.O.C.
TW

00-18-CC (hex) AXIOHM SAS
0018CC (base 16) AXIOHM SAS
1
RUE D'ARCUEIL
MONTROUGE 92120
FR

00-18-27 (hex) NEC UNIFIED SOLUTIONS NEDERLAND B.V.
001827 (base 16) NEC UNIFIED SOLUTIONS NEDERLAND B.V.
ANTON PHILIPSWEG 1
HILVERSUM NH 1223KZ
NL

00-90-04 (hex) 3COM EUROPE LTD
009004 (base 16) 3COM EUROPE LTD
3COM CENTRE, BOUNDARY WAY
HERTS. HP2 7YU 00000
GB

00-06-8C (hex) 3COM
00068C (base 16) 3COM
5400 BAYFRONT PLAZA
SANTA CLARA CA 95052
US

02-60-8C (hex) 3COM
02608C (base 16) 3COM
5400 BAYFRONT PLAZA
SANTA CLARA CA 95052
US

00-D0-D8 (hex) 3COM
00D0D8 (base 16) 3COM
2133 LEGHORN STREET
MOUNTAIN VIEW CA 94043
US

58-D5-6E (hex) D-Link International
58D56E (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

18-93-7F (hex) AMPAK Technology, Inc.
18937F (base 16) AMPAK Technology, Inc.
No.1,Jen Ai Road Hsinchu Industrial Park, Hukou
Hsinchu
Taiwan ROC. 30352
TW

A4-35-23 (hex) Guangdong Donyan Network Technologies Co.,Ltd.
A43523 (base 16) Guangdong Donyan Network Technologies Co.,Ltd.
No.6,Kejizhong Road,Chuangye Building,Hi-tech Zone
Shantou Guangdong 515000
CN

B4-A9-4F (hex) MERCURY CORPORATION
B4A94F (base 16) MERCURY CORPORATION
90, Gajaeul-ro, Seo-gu
INCHEON 22830
KR

00-26-B7 (hex) Kingston Technology Company, Inc.
0026B7 (base 16) Kingston Technology Company, Inc.
17600 Newhope St.
Fountain Valley CA 92708
US

00-08-09 (hex) Systemonic AG
000809 (base 16) Systemonic AG
Am Waldschloesschen 1

DE

8C-41-F4 (hex) IPmotion GmbH
8C41F4 (base 16) IPmotion GmbH
Ludwig-Rinn-Straße 8-16
Heuchelheim Hessen 35452

DE

70-4F-08 (hex) Shenzhen Huisheng Information Technology Co., Ltd.
704F08 (base 16) Shenzhen Huisheng Information Technology Co., Ltd.
Room 4A-205, Software Industry
Base, Yuehai St
Nanshan District, Shenzhen Guangdong 518000
CN

F8-5E-3C (hex) SHENZHEN ZHIBOTONG ELECTRONICS CO.,LTD
F85E3C (base 16) SHENZHEN ZHIBOTONG ELECTRONICS CO.,LTD
4F,Bldg A2,Hedian Industrial Park,NO.8 Shijing Rd,Guanlan,Longhua District,ShenZhen,China
shengzhen 518110
CN

80-3A-F4 (hex) Fiberhome Telecommunication Technologies Co.,LTD
803AF4 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

48-A0-F8 (hex) Fiberhome Telecommunication Technologies Co.,LTD
48A0F8 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

88-35-C1 (hex) OI ELECTRIC CO.,LTD
8835C1 (base 16) OI ELECTRIC CO.,LTD
7-3-16 KIKUNA
YOKOHAMA KANAGAWA-KEN 222-0011
JP

30-42-A1 (hex) ilumisys Inc. DBA Toggled
3042A1 (base 16) ilumisys Inc. DBA Toggled
1820 E. Big Beaver Road
Troy MI 48083
US

40-62-EA
(hex) China Mobile Group Device Co.,Ltd.
4062EA (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

9C-F6-DD (hex) IEEE Registration Authority
9CF6DD (base 16) IEEE Registration Authority

445 Hoes Lane
Piscataway NJ 08554
US

28-3E-76 (hex) Common Networks
283E76 (base 16) Common Networks
1390 Market St. Suite 820
San Francisco CA 94102
US

DC-39-79 (hex) Cisco Systems, Inc
DC3979 (base 16) Cisco Systems, Inc
280 Hope Street
Mountain View CA 94041
US

00-1E-80 (hex) Icotera A/S
001E80 (base 16) Icotera A/S
Vibeholms Allé 16
Brøndby 2605
DK

48-88-1E (hex) EthoSwitch LLC
48881E (base 16) EthoSwitch LLC
1298 Evans Road
Wall Township NJ 07719
US

CC-21-19 (hex) Samsung Electronics Co.,Ltd
CC2119 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

3C-71-BF
(hex) Espressif Inc.
3C71BF (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

90-2B-D2 (hex) HUAWEI TECHNOLOGIES CO.,LTD
902BD2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

50-2F-A8 (hex) Cisco Systems, Inc

502FA8 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

C0-83-59 (hex) IEEE Registration Authority
C08359 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

00-03-93 (hex) Apple, Inc.
000393 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-00-C3 (hex) Harris Corporation
0000C3 (base 16) Harris Corporation
1025 West NASA Blvd
Melbourne FL 32919
US

08-D5-9D (hex) Sagemcom Broadband SAS
08D59D (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil
Malmaison Cedex hauts de seine 92848
FR

B4-69-21 (hex) Intel Corporate
B46921 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

4C-0F-C7 (hex) Earda Technologies co Ltd
4C0FC7 (base 16) Earda Technologies co Ltd
5/F,Block 2 East area,Haosheng Industrial Park,
Guangzhou Guangdong 511400
CN

80-A7-96 (hex) Neuralink Corp.
80A796 (base 16) Neuralink Corp.
3180 18th St, Ste 200
San Francisco CA 94110
US

44-65-7F (hex) Calix Inc.
44657F (base 16) Calix Inc.
2777 Orchard Pkwy
San Jose CA 95131
US

30-4B-07 (hex) Motorola Mobility LLC, a Lenovo Company
304B07 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

34-5A-BA (hex) tcloud intelligence
345ABA (base 16) tcloud intelligence
Bao'an District, No. 400 Xiangshan Avenue
ShenZhen GuangDong 518105
CN

14-94-2F (hex) USYS
CO.,LTD.
14942F (base 16) USYS CO.,LTD.
#911, SeoulTechnoPark, 232, Gongneung-ro, Nowon-gu
Seoul KS013
KR

EC-83-D5 (hex) GIRD Systems Inc
EC83D5 (base 16) GIRD Systems Inc
11260 Chester Road, Ste. 600
Cincinnati OH 45246
US

00-04-AE (hex) Sullair Corporation
0004AE (base 16) Sullair Corporation
3700 East Michigan Blvd
Michigan City IN 46360
US

FC-B1-0D (hex) Shenzhen Tian Kun Technology Co.,LTD.
FCB10D (base 16) Shenzhen Tian Kun Technology Co.,LTD.
Layer 8,Nanyuan Maple Building,No.1088 Nanshan Avenue,Nanshan Street,Nanshan District,Shenzhen
Shenzhen Guangdong 518048
CN

20-F7-7C (hex) vivo Mobile Communication Co., Ltd.
20F77C (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

00-45-1D (hex) Cisco Systems, Inc
00451D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A0-D6-35
(hex) WBS Technology
A0D635 (base 16) WBS Technology
Unit32, 2 Slough Ave, Slough Business Park
Silverwater New South Wales 2128
AU

00-1E-EC (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
001EEC (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO. 25, THE 3RD Street
KUNSHAN CITY SUZHOU PROVINCE 215300
CN

F0-76-1C (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
F0761C (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO. 15, THE 3RD Street KUNSHAN EXPORT PROCESSING ZONE
KUNSHAN SUZHOU 215300
CN

00-0C-8A (hex) Bose Corporation
000C8A (base 16) Bose Corporation
Automotive Systems Division (ASD)
Stow MA 01775-9102
US

30-D6-59 (hex) Merging Technologies SA
30D659 (base 16) Merging Technologies SA
Le Verney 4
Puidoux Outside the U.S or Canada 1070
CH

70-2A-D5 (hex) Samsung Electronics Co.,Ltd
702AD5 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon
Gyeonggi-Do 16677
KR

88-97-65 (hex) exands
889765 (base 16) exands
RM2202 , No. 666 Gubei road

shanghai 200336
CN

34-80-0D (hex) Cavium Inc
34800D (base 16) Cavium Inc
15485 Sand Canyon Ave
Irvine CA 92618
US

B4-4B-D6 (hex) IEEE Registration Authority
B44BD6 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

D8-91-2A (hex) Zyxel Communications Corporation
D8912A (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

40-EE-DD (hex) HUAWEI TECHNOLOGIES CO.,LTD
40EEDD (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

3C-42-7E (hex) IEEE Registration Authority
3C427E (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

00-0B-A3 (hex) Siemens AG
000BA3 (base 16) Siemens
AG
Werner-von-Siemens-Straße 65
Erlangen Bavaria 91052
DE

64-1C-67 (hex) DIGIBRAS INDUSTRIA DO BRASILS/A
641C67 (base 16) DIGIBRAS INDUSTRIA DO BRASILS/A
Rua Tambaqui, 180-B - MANAUS - AM ¨C BRAZIL
manaus MANAUS 69075-210
BR

60-05-8A (hex) Hitachi Metals, Ltd.
60058A (base 16) Hitachi Metals, Ltd.

Shinagawa Season Terrace, 2-70, Konan 1-chome
Minato-ku Tokyo 108-8224
JP

38-6E-88 (hex) zte corporation
386E88 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

24-3A-82 (hex) IRTS
243A82 (base 16) IRTS
639 BD DES ARMARIS, IRTS
TOULON Provence Alpes Cotes d'Azur 83100
FR

88-09-07 (hex) MKT Systemtechnik GmbH & Co. KG
880907 (base 16) MKT Systemtechnik GmbH & Co. KG
Hasskampstraße 75-77
Bünde NRW 32257
DE

58-A4-8E (hex) PixArt Imaging Inc.
58A48E (base 16) PixArt Imaging Inc.
No.5, Innovation
Road 1, HsinChu Science Park,
Hsin-Chu 300
TW

A0-19-B2 (hex) IEEE Registration Authority
A019B2 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

AC-75-1D (hex) HUAWEI TECHNOLOGIES CO.,LTD
AC751D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

28-9E-97 (hex) HUAWEI TECHNOLOGIES CO.,LTD
289E97 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-1E-B0 (hex) ImesD Electronica S.L.

001EB0 (base 16) ImesD Electronica S.L.
d'Entença 81
Barcelona 08015
ES

8C-15-C7 (hex) HUAWEI TECHNOLOGIES CO.,LTD
8C15C7 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

60-FA-9D (hex) HUAWEI TECHNOLOGIES CO.,LTD
60FA9D (base 16) HUAWEI TECHNOLOGIES
CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

DC-99-14 (hex) HUAWEI TECHNOLOGIES CO.,LTD
DC9914 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

4C-3F-D3 (hex) Texas Instruments
4C3FD3 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

00-15-25 (hex) Chamberlain Access Solutions
001525 (base 16) Chamberlain Access Solutions
8271 E. Gelding Drive
Scottsdale AZ 85260
US

00-80-B6 (hex) Mercury Systems – Trusted Mission Solutions, Inc.
0080B6 (base 16) Mercury Systems – Trusted Mission Solutions, Inc.
6681 OWENS DRIVE
PLEASONTON CA 94588
US

08-51-2E (hex) Orion Diagnostica Oy
08512E (base 16) Orion Diagnostica Oy
Koivu-Mankkaan tie 6
Espoo 02100
FI

98-A4-04 (hex) Ericsson AB
98A404 (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm
SE-164 80
SE

00-CC-3F (hex) Universal Electronics, Inc.
00CC3F (base 16) Universal Electronics, Inc.
201 E. Sandpointe Ave
Santa Ana CA 92707
US

74-EB-80 (hex) Samsung Electronics Co.,Ltd
74EB80 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

0C-E0-DC (hex) Samsung Electronics Co.,Ltd
0CE0DC (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D8-68-C3 (hex) Samsung Electronics Co.,Ltd
D868C3 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C4-93-D9 (hex) Samsung Electronics Co.,Ltd
C493D9 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B0-53-65 (hex) China Mobile IOT Company Limited
B05365 (base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area
Chongqing Chongqing 401336
CN

BC-22-FB (hex) RF
Industries
BC22FB (base 16) RF Industries
PO Box 5
Welland SA 5007

AU

74-B9-1E (hex) Nanjing Bestway Automation System Co., Ltd
74B91E (base 16) Nanjing Bestway Automation System Co., Ltd
#50 Baoxiang Road, Jiangning Bin Jiang Economic Development Zone
nanjing jiangsu 211161
CN

A8-2B-B9 (hex) Samsung Electronics Co.,Ltd
A82BB9 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

AC-FD-93 (hex) WEIFANG GOERTEK ELECTRONICS CO.,LTD
ACFD93 (base 16) WEIFANG GOERTEK ELECTRONICS CO.,LTD
Gaoxin 2 Road,Free Trade Zone,Weifang,Shandong,261205,P.R.China
Weifang Shandong 261205
CN

68-57-2D (hex) Tuya Smart Inc.
68572D (base 16) Tuya Smart Inc.
160 Greentree Drive, Suite 101
Dover DE 19904
US

30-88-41 (hex) Sichuan AI-Link Technology Co., Ltd.
308841 (base 16) Sichuan AI-Link Technology Co., Ltd.
Anzhou,Industrial Park
Anzhou,Industrial
Park Sichuan 621000
CN

44-EF-CF (hex) UGENE SOLUTION inc.
44EFCF (base 16) UGENE SOLUTION inc.
A-1508, 1509, 583, Yangcheon-ro, Gangseo-gu
Seoul KS013
KR

30-45-96 (hex) HUAWEI TECHNOLOGIES CO.,LTD
304596 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C0-F4-E6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C0F4E6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park

Dongguan 523808
CN

F4-BF-80 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F4BF80 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-0E-8F (hex) Sercomm Corporation.
000E8F (base 16) Sercomm Corporation.
3F,No.81,Yu-Yih Rd.,Chu-Nan Chen
Miao-Lih Hsuan 115
TW

00-B8-C2 (hex) Heights Telecom T ltd
00B8C2 (base 16) Heights Telecom T ltd
Moshe
Lerer 15
Nes Ziona 7404996
IL

B4-B6-86 (hex) Hewlett Packard
B4B686 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

4C-ED-FB (hex) ASUSTek COMPUTER INC.
4CEDFB (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

88-D6-52 (hex) AMERGINT Technologies
88D652 (base 16) AMERGINT Technologies
2315 Briargate Pkwy, Suite 100
Colorado Springs CO 80920
US

6C-AF-15 (hex) Webasto SE
6CAF15 (base 16) Webasto SE
Kraillinger Straße 5
Stockdorf Bayern 82131
DE

D0-B2-14 (hex) PoeWit Inc
D0B214 (base 16) PoeWit Inc

2307 Sea Island Dr
Fort Lauderdale FL 33301
US

FC-90-FA (hex) Independent Technologies
FC90FA (base 16) Independent Technologies
1960 Ridgeview Rd
Blair NE 68008
US

E4-E1-30 (hex) TCT mobile ltd
E4E130 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech
District
Hui Zhou Guang Dong 516006
CN

7C-2E-BD (hex) Google, Inc.
7C2EBD (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

40-50-B5 (hex) Shenzhen New Species Technology Co., Ltd.
4050B5 (base 16) Shenzhen New Species Technology Co., Ltd.
Room 1827,Building R&D,EVOC intelligence valley,No 11,Gao xin west road,Guangming New District
Shenzhen 518107
CN

68-D1-BA (hex) Shenzhen YOUHUA Technology Co., Ltd
68D1BA (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

E4-60-59 (hex) Pingtek Co., Ltd.
E46059 (base 16) Pingtek Co., Ltd.
5F., No.786, Zhongzheng Rd., Zhonghe Dist.
New Taipei City 235
TW

A0-E6-17 (hex) MATIS
A0E617 (base 16) MATIS
2/F,Hatchobori MIYATA Bldg.,1-8-2,
Shintomi,Chuo-Ku, Tokyo 104-0041
JP

70-01-B5 (hex) Cisco

Systems, Inc
7001B5 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1F-49 (hex) Manhattan TV Ltd
001F49 (base 16) Manhattan TV Ltd
3 Phoenix Park,
London NW2 7LN
GB

0C-21-38 (hex) Hengstler GmbH
0C2138 (base 16) Hengstler GmbH
Uhlandstrasse49
Aldingen BW 78554
DE

1C-1A-C0 (hex) Apple, Inc.
1C1AC0 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

30-78-C2 (hex) Innowireless / QUCELL Networks
3078C2 (base 16) Innowireless / QUCELL Networks
Innowireless Bldg. 190 Seohyeon-ro
Bundang-gu, Seongnam-si Gyeonggi-do 13590
KR

E0-19-1D (hex) HUAWEI TECHNOLOGIES CO.,LTD
E0191D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

3C-15-FB (hex) HUAWEI TECHNOLOGIES CO.,LTD
3C15FB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan
Lake Technology Park
Dongguan 523808
CN

DC-33-0D (hex) QING DAO HAIER TELECOM CO.,LTD.
DC330D (base 16) QING DAO HAIER TELECOM CO.,LTD.
No 1 Haier road,Hi-tech ZoneQingdaoPR.China
Qingdao Shandong 266101
CN

E0-38-3F (hex) zte corporation
E0383F (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

D4-72-26 (hex) zte corporation
D47226 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

40-F0-4E (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
40F04E (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

00-CF-C0 (hex) China Mobile Group Device Co.,Ltd.
00CFC0 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

00-21-F2
(hex) EASY3CALL Technology Limited
0021F2 (base 16) EASY3CALL Technology Limited
Room 1903-6, 19/F., HING YIP Commercial Centre
Hong Kong 999077
CN

00-15-C4 (hex) FLOVEL CO., LTD.
0015C4 (base 16) FLOVEL CO., LTD.
The Tachihi building No,3 hall, 6-1, Sakae-cho,
Tokyo 190-0003
US

AC-35-EE (hex) FN-LINK TECHNOLOGY LIMITED
AC35EE (base 16) FN-LINK TECHNOLOGY LIMITED
A Building,HuiXin industial park,No 31, YongHe road, Fuyong town, Bao'an District
SHENZHEN GUANGDONG 518100
CN

00-11-E6 (hex) Scientific Atlanta
0011E6 (base 16) Scientific Atlanta
5030 Sugarloaf Parkway
Lawrenceville Ga 30042

US

88-AE-07 (hex) Apple, Inc.
88AE07 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

40-83-1D (hex) Apple, Inc.
40831D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

DC-D3-A2 (hex) Apple, Inc.
DCD3A2 (base 16) Apple, Inc.
1 Infinite
Loop
Cupertino CA 95014
US

80-05-88 (hex) Ruijie Networks Co.,LTD
800588 (base 16) Ruijie Networks Co.,LTD
20# Building,Star-net Science Plaza,Juyuanzhou, 618 Jinshan Road
Fuzhou Fujian 350002
CN

5C-1D-D9 (hex) Apple, Inc.
5C1DD9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

68-FE-F7 (hex) Apple, Inc.
68FEF7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-0E-1D (hex) Megafone Limited
F00E1D (base 16) Megafone Limited
Unit 702,7/F,Bankok Bank Building,NO.18 Bonham Strand West
Hong Kong 999077
HK

24-F1-28 (hex) Telstra
24F128 (base 16) Telstra
231 Elisabeth St

SYDNEY NSW 2000
AU

70-69-5A (hex) Cisco Systems, Inc
70695A (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-BF-77 (hex) Cisco Systems, Inc
00BF77 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA
94568
US

D0-77-14 (hex) Motorola Mobility LLC, a Lenovo Company
D07714 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

30-B7-D4 (hex) Hitron Technologies. Inc
30B7D4 (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

B4-81-BF (hex) Meta-Networks, LLC
B481BF (base 16) Meta-Networks, LLC
Office 106C, 5/2, Varshavskaya street
Saint-Petersburg Saint-Petersburg 196128
RU

0C-2C-54 (hex) HUAWEI TECHNOLOGIES CO.,LTD
0C2C54 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

88-11-96 (hex) HUAWEI TECHNOLOGIES CO.,LTD
881196 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E4-0E-EE (hex) HUAWEI TECHNOLOGIES CO.,LTD
E40EEE

(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

28-D9-97 (hex) Yuduan Mobile Co., Ltd.
28D997 (base 16) Yuduan Mobile Co., Ltd.
Room 401 No 84 Lane 887 Zuchongzhi Rd.
Shanghai 201203
CN

D4-C1-9E (hex) Ruckus Wireless
D4C19E (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

0C-AE-7D (hex) Texas Instruments
0CAE7D (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

30-45-11 (hex) Texas Instruments
304511 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

30-1F-9A (hex) IEEE Registration Authority
301F9A (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

28-FD-80 (hex) IEEE Registration Authority
28FD80 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

00-07-58 (hex) DragonWave
Inc.
000758 (base 16) DragonWave Inc.
600-411 Leggett Drive,
Kanata, Ontario K2K 3C9
CA

94-6A-B0 (hex) Arcadyan Corporation
946AB0 (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

48-18-FA (hex) Nocsys
4818FA (base 16) Nocsys
1F, No. 63 Building, No. 421 Hong Cao Road, Xuhui District
Shanghai Shanghai 200233
CN

E8-1A-AC (hex) ORFEO SOUNDWORKS Inc.
E81AAC (base 16) ORFEO SOUNDWORKS Inc.
612, 11-41, Simin-daero 327beon-gil, Dongan-gu
Anyang 14055
KR

A0-38-F8 (hex) OURA Health Oy
A038F8 (base 16) OURA Health Oy
Elektroniikkatie 3
Oulu 90590
FI

D4-93-98 (hex) Nokia Corporation
D49398 (base 16) Nokia Corporation
Joensuunkatu 7
Salo N.A. 24101
FI

00-19-37 (hex) CommerceGuard AB
001937 (base 16) CommerceGuard AB
Gustavslundsv 151A
BROMMA 16714
SE

FC-7C-02 (hex) Phicomm (Shanghai) Co.,
Ltd.
FC7C02 (base 16) Phicomm (Shanghai) Co., Ltd.
3666 SiXian Rd.,Songjiang District
Shanghai Shanghai 201616
CN

68-79-24 (hex) ELS-GmbH & Co. KG
687924 (base 16) ELS-GmbH & Co. KG
Dammstrasse 21
Werther NRW 33824
DE

B0-26-80 (hex) Cisco Systems, Inc
B02680 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F0-FC-C8 (hex) ARRIS Group, Inc.
F0FCC8 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

58-7A-6A (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
587A6A (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

F8-DF-15 (hex) Sunitec Enterprise Co.,Ltd
F8DF15 (base 16) Sunitec Enterprise Co.,Ltd
3F.,No.98-1,Mincyuan Rd.Sindian City
Taipei County 231 231141
CN

A8-61-0A (hex) ARDUINO AG
A8610A (base 16) ARDUINO AG
Corso San Gottardo 6A
Chiasso
6830
CH

60-97-DD (hex) MicroSys Electronics GmbH
6097DD (base 16) MicroSys Electronics GmbH
Muehlweg 1
Sauerlach 82054
DE

B4-1C-30 (hex) zte corporation
B41C30 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

70-5A-AC (hex) Samsung Electronics Co.,Ltd
705AAC (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350

KR

04-79-70 (hex) HUAWEI TECHNOLOGIES CO.,LTD
047970 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A0-57-E3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A057E3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

1C-B0-44 (hex) ASKEY COMPUTER CORP
1CB044 (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG RD,ZHONGHE DIST
NEW
TAIPEI TAIWAN 23585
TW

38-DE-AD (hex) Intel Corporate
38DEAD (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D4-6D-6D (hex) Intel Corporate
D46D6D (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

F4-84-4C (hex) Texas Instruments
F4844C (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

4C-82-CF (hex) Dish Technologies Corp
4C82CF (base 16) Dish Technologies Corp
94 Inverness Terrace E
Englewood CO 80112
US

28-57-67 (hex) Dish Technologies Corp
285767 (base 16) Dish Technologies Corp
94 Inverness Terrace E

Englewood CO 80112
US

70-16-9F (hex) EtherCAT Technology Group
70169F (base 16) EtherCAT Technology Group
Ostendstr. 196
NUremberg 90482
DE

3C-57-4F (hex) China Mobile Group Device Co.,Ltd.
3C574F (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng
District
Beijing 100053
CN

1C-A0-B8 (hex) Hon Hai Precision Industry Co., Ltd.
1CA0B8 (base 16) Hon Hai Precision Industry Co., Ltd.
GuangDongShenZhen
ShenZhen GuangDong 518109
CN

8C-16-45 (hex) LCFC(HeFei) Electronics Technology co., ltd
8C1645 (base 16) LCFC(HeFei) Electronics Technology co., ltd
YunGu Road 3188-1
Hefei Anhui 230000
CN

68-98-61 (hex) Beacon Inc
689861 (base 16) Beacon Inc
82-1, Anyangcheondong-ro, Dongan-gu
anyang Gyeonggi-do 14042
KR

B4-F2-E8 (hex) ARRIS Group, Inc.
B4F2E8 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

60-98-13 (hex) Shanghai Visking Digital Technology Co. LTD
609813 (base 16) Shanghai Visking Digital Technology Co. LTD
Room 1301, Building A8, No.1688 Guoquan North Road, Yangpu District
Shanghai 200082
CN

2C-95-69 (hex) ARRIS Group, Inc.
2C9569 (base 16) ARRIS Group, Inc.

6450 Sequence
Drive
San Diego CA 92121
US

50-6B-4B (hex) Mellanox Technologies, Inc.
506B4B (base 16) Mellanox Technologies, Inc.
350 Oakmead Parkway, Suite 100
Sunnyvale CA 94085
US

A0-39-EE (hex) Sagemcom Broadband SAS
A039EE (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

E4-CB-59 (hex) Beijing Loveair Science and Technology Co. Ltd.
E4CB59 (base 16) Beijing Loveair Science and Technology Co. Ltd.
103,Block B, Kelin Building, No.107, Dongsi North Street, Dongcheng District,
Beijing 100000
CN

D4-A3-3D (hex) Apple, Inc.
D4A33D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E4-30-22 (hex) Hanwha Techwin Security Vietnam
E43022 (base 16) Hanwha Techwin Security Vietnam
Plot O-2, Que Vo industrial park (Expanded area),
Nam Son Commune, Bac Ninh City Bac Ninh Province 000
VN

04-4F-17 (hex) HUMAX Co.,
Ltd.
044F17 (base 16) HUMAX Co., Ltd.
HUMAX Village, 216, Hwangsaeul-ro, Bu
Seongnam-si Gyeonggi-do 463-875
KR

D8-9C-67 (hex) Hon Hai Precision Ind. Co.,Ltd.
D89C67 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

68-5A-CF (hex) Samsung Electronics Co.,Ltd
685ACF (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

0C-A8-A7 (hex) Samsung Electronics Co.,Ltd
0CA8A7 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B0-67-2F (hex) Bowers & Wilkins
B0672F (base 16) Bowers & Wilkins
900 Middlefield Rd Floor 4
Redwood City CA 94063
US

84-74-60 (hex) zte corporation
847460 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

B4-E6-2D (hex) Espressif Inc.
B4E62D (base 16) Espressif
Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

F0-76-6F (hex) Apple, Inc.
F0766F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

40-98-AD (hex) Apple, Inc.
4098AD (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

6C-4D-73 (hex) Apple, Inc.
6C4D73 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

10-CD-6E (hex) FISYS
10CD6E (base 16) FISYS
303 Expotel, 44, Dunsan-daero 117beon-gil, Seo-gu, Daejeon, Korea
Daejeon, Korea KS015
KR

68-EF-43 (hex) Apple, Inc.
68EF43 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D0-2B-20 (hex) Apple, Inc.
D02B20 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

2C-61-F6 (hex) Apple, Inc.
2C61F6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-63-75 (hex) Xiaomi Communications
Co Ltd
D86375 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

80-C5-F2 (hex) AzureWave Technology Inc.
80C5F2 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

64-F8-8A (hex) China Mobile IOT Company Limited
64F88A (base 16) China Mobile IOT Company Limited
NO.8 Yu Ma Road, NanAn Area
Chongqing Chongqing 401336
CN

C8-DF-84 (hex) Texas Instruments
C8DF84 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243

US

24-0D-6C (hex) SMND
240D6C (base 16) SMND
16-39, LS-ro 91 beon-gil, Dongan-gu
Anyang-si Gyeonggi-do 14119
KR

68-DB-54 (hex) Phicomm (Shanghai) Co., Ltd.
68DB54 (base 16) Phicomm (Shanghai) Co., Ltd.
3666 SiXian Rd.,Songjiang District
Shanghai Shanghai 201616
CN

E4-8F-34 (hex) Vodafone Italia S.p.A.
E48F34
(base 16) Vodafone Italia S.p.A.
Via Lorenteggio nr. 240
Milan Italy 20147
IT

64-20-9F (hex) Tilgin AB
64209F (base 16) Tilgin AB
Finlandsgatan 40
Kista 16474
SE

A4-3E-51 (hex) ANOV FRANCE
A43E51 (base 16) ANOV FRANCE
100 CHEMIN DE BAILLOT
MONTAUBAN 82000
FR

70-26-05 (hex) SONY Visual Products Inc.
702605 (base 16) SONY Visual Products Inc.
2-10-1 Osaki
Shinagawa-ku Tokyo 141-8610
JP

00-90-F1 (hex) Seagate Cloud Systems Inc
0090F1 (base 16) Seagate Cloud Systems Inc
6305 El Camino Real
Carlsbad CA 92009
US

84-5A-81 (hex) ffly4u
845A81 (base 16) ffly4u
3, avenue Didier Daurat

Toulouse 31400
FR

CC-81-DA (hex) Phicomm (Shanghai) Co., Ltd.
CC81DA (base 16) Phicomm (Shanghai) Co., Ltd.
3666 SiXian Rd.,Songjiang District
Shanghai Shanghai 201616
CN

00-80-6C (hex) Secure Systems & Services
00806C (base 16) Secure Systems & Services
24,
Chemin de la Pouranque
F-13752 LES PENNES MIRABEAU CS30084
FR

D8-E0-04 (hex) Vodia Networks Inc
D8E004 (base 16) Vodia Networks Inc
33 Broad St
Boston MA 02109
US

2C-FD-AB (hex) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
2CFDAB (base 16) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
No.19, Gaoxin 4th Road, Wuhan East Lake High-tech Zone, Wuhan
Wuhan Hubei 430000
CN

30-B4-B8 (hex) LG Electronics
30B4B8 (base 16) LG Electronics
222 LG-ro, JINWI-MYEON
Pyeongtaek-si Gyeonggi-do 451-713
KR

30-EB-1F (hex) Skylab M&C Technology Co.,Ltd
30EB1F (base 16) Skylab M&C Technology Co.,Ltd
6 Floor,No.9 Building,Lijincheng Scientific&Technical park,Gongye East Road,Longhua District
Shenzhen Guangdong 518109
CN

54-9A-4C (hex) GUANGDONG HOMECARE TECHNOLOGY CO.,LTD.
549A4C (base 16) GUANGDONG HOMECARE TECHNOLOGY CO.,LTD.
8F,12#, Taihua Industrial
Park, Hangkong Rd., Gushu Baoan District
Shenzhen Guangdong 518128
CN

0C-CE-F6 (hex) Guizhou Fortuneship Technology Co., Ltd

0CCEF6 (base 16) Guizhou Fortuneship Technology Co., Ltd
2nd Floor, Factory Building 4, Hi-Tech Industrial Park, Xinpu Economic Development Zone, Xinpu New District
Zunyi City Guizhou Province 56300
CN

18-06-FF (hex) Acer Computer(Shanghai) Limited.
1806FF (base 16) Acer Computer(Shanghai) Limited.
Room1806-20, No.769, Jiujiang Road, Huangpu District
Shanghai 200000
CN

1C-27-DD (hex) Datang Gohighsec(zhejiang)Information Technology Co.,Ltd.
1C27DD (base 16) Datang Gohighsec(zhejiang)Information Technology Co.,Ltd.
Beiwu Innovation park, #23 Beiwu Villiage Road
Beijing Beijing 100000
CN

B8-C8-EB (hex) ITEL MOBILE LIMITED
B8C8EB (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON
999077
HK

D0-7F-C4 (hex) Ou Wei Technology Co.Ltd. of Shenzhen City
D07FC4 (base 16) Ou Wei Technology Co.Ltd. of Shenzhen City
Registered Address: Room 201, Block D, Huahan Innovation Park, Langshan Road, Xili Street, Nanshan District,
Shenzhen Guangdong 518057
CN

14-79-F3 (hex) China Mobile Group Device Co.,Ltd.
1479F3 (base 16) China Mobile Group Device Co.,Ltd.
32 Xuanwumen West Street,Xicheng District
Beijing 100053
CN

B4-52-53 (hex) Seagate Technology
B45253 (base 16) Seagate Technology
1280 Disc Drive
Shakopee MN 55379
US

00-11-C6 (hex) Seagate Technology
0011C6 (base 16) Seagate Technology
M/S NW1F01
Longmont CO 80503
US

00-1D-38 (hex) Seagate Technology
001D38 (base 16) Seagate Technology
M/S NW1F01
Longmont CO 80503
US

00-50-13 (hex) Seagate Cloud Systems Inc
005013 (base 16) Seagate Cloud Systems Inc
7420 E. Dry Creek Parkway
Longmont CO
80503
US

48-55-5C (hex) Wu Qi Technologies,Inc.
48555C (base 16) Wu Qi Technologies,Inc.
Xiantao street data on the 19th East Road
Chongqing City Yubei District 401120
CN

38-0E-4D (hex) Cisco Systems, Inc
380E4D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

38-73-EA (hex) IEEE Registration Authority
3873EA (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

4C-52-62 (hex) Fujitsu Technology Solutions GmbH
4C5262 (base 16) Fujitsu Technology Solutions GmbH
Buergermeister-Ulrich-Strasse 100
Augsburg Bayern 86199
DE

80-3B-F6 (hex) LOOK EASY INTERNATIONAL LIMITED
803BF6 (base 16) LOOK EASY INTERNATIONAL LIMITED
4th Floor, No. 551, Guang-Fu South Road
Taipei Xinyi District 11074
TW

DC-4F-22 (hex) Espressif Inc.
DC4F22 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai

201203
CN

F8-6C-E1 (hex) Taicang T&W Electronics
F86CE1 (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

1C-73-28 (hex) Connected Home
1C7328 (base 16) Connected Home
19-22, Rathbone Place
London W1T 1HY
GB

EC-1D-8B (hex) Cisco Systems, Inc
EC1D8B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

EC-70-97 (hex) ARRIS Group, Inc.
EC7097 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

58-19-F8 (hex) ARRIS Group, Inc.
5819F8 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-23-A0 (hex) Hana CNS Co., LTD.
0023A0 (base 16) Hana CNS Co., LTD.
Taejang-dong 1720-52 Taejang-NongGong-Danji
Wonju Gangwon-do 220-962
KR

F4-06-A5 (hex) Hangzhou Bianfeng Networking Technology Co., Ltd.
F406A5 (base 16) Hangzhou Bianfeng Networking Technology Co., Ltd.
BlockC2FBuilding
BParadise Software Park
Hangzhou Zhejiang 310012
CN

B0-EC-E1 (hex) Private
B0ECE1 (base 16) Private

18-F0-E4 (hex) Xiaomi Communications Co Ltd
18F0E4 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources , No.68 Qinghe Middle Street , Haidian District
Beijing Beijing 100089
CN

9C-8C-6E (hex) Samsung Electronics Co.,Ltd
9C8C6E (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

64-CB-A3 (hex) Pointmobile
64CBA3 (base 16) Pointmobile
B-9F kabul Great Valley, 32, Digital-ro 9-gil, Geumcheon-gu
Seoul Seoul 08512
KR

60-E7-8A (hex) UNISEM
60E78A (base 16) UNISEM
10-7,Jangjinam-gil,Dongtan-meyeon
Hwaseong-si Gyeonggi-do 18510
KR

10-46-B4 (hex) FormericaOE
1046B4 (base 16) FormericaOE
5F-11, No.38, Taiyuan Street
Zhubei City Hsinchu County 302
TW

9C-E3-3F (hex) Apple,
Inc.
9CE33F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

08-BA-22 (hex) Swaive Corporation
08BA22 (base 16) Swaive Corporation
3565 Kettmann Road
San Jose CA 95121
US

28-C1-3C (hex) Hon Hai Precision Industry Co., Ltd.
28C13C (base 16) Hon Hai Precision Industry Co., Ltd.
GuangDongShenZhen
ShenZhen GuangDong 518109

CN

C4-CD-82 (hex) Hangzhou Lowan Information Technology Co., Ltd.
C4CD82 (base 16) Hangzhou Lowan Information Technology Co., Ltd.
502 Building B, United Mansion, No.2 Zijinghua Road
Hangzhou Zhejiang 310023
CN

30-FB-94 (hex) Shanghai Fangzhiwei Information Technology CO.,Ltd.
30FB94 (base 16) Shanghai Fangzhiwei Information Technology CO.,Ltd.
The 17th Building A Unit,No. 1688 Lianhang Road,Minhang District,Shanghai City
Shanghai 201100
CN

A4-B5-2E (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
A4B52E (base 16) Integrated Device Technology
(Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

3C-A5-81 (hex) vivo Mobile Communication Co., Ltd.
3CA581 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

34-E9-11 (hex) vivo Mobile Communication Co., Ltd.
34E911 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

EC-FA-BC (hex) Espressif Inc.
ECFABC (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

00-BF-61 (hex) Samsung Electronics Co.,Ltd
00BF61 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

00-12-48 (hex) Dell EMC
001248 (base 16) Dell EMC
176 South Street

Hopkinton MA 01748
US

CC-2D-E0 (hex) Routerboard.com
CC2DE0 (base 16) Routerboard.com
Mikrotikls
SIA
Riga Riga LV1009
LV

00-60-48 (hex) Dell EMC
006048 (base 16) Dell EMC
171 SOUTH ST.,
HOPKINTON MA 01748
US

7C-C9-5A (hex) Dell EMC
7CC95A (base 16) Dell EMC
176 South Street
Hopkinton MA 01748
US

00-24-24 (hex) Ace Axis Limited
002424 (base 16) Ace Axis Limited
602 Delta Business Park, Welton Road
Swindon SN5 7XP
GB

50-C9-A0 (hex) SKIPPER AS
50C9A0 (base 16) SKIPPER AS
Enebakkvn 150
Oslo 0612
NO

74-83-EF (hex) Arista Networks
7483EF (base 16) Arista Networks
5453 Great America Parkway
Santa Clara CA 95054
US

00-E0-F6 (hex) DECISION EUROPE
00E0F6 (base 16) DECISION EUROPE
3, rue de Lattre de Tassigny
85170 SAINT DENIS LA CHEVASSE
FR

DC-55-83 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
DC5583 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD

NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG
523860
CN

F8-F2-1E (hex) Intel Corporate
F8F21E (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

28-29-86 (hex) APC by Schneider Electric
282986 (base 16) APC by Schneider Electric
800 Federal St.
Andover MA 01810
US

70-7D-B9 (hex) Cisco Systems, Inc
707DB9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

08-BE-AC (hex) Edimax Technology Co. Ltd.
08BEAC (base 16) Edimax Technology Co. Ltd.
No. 278, Xinhu 1st Road
Taipei City Neihu Dist 248
TW

8C-0F-83 (hex) Angie Hospitality LLC
8C0F83 (base 16) Angie Hospitality LLC
12465 S Fort St, Ste 300
Draper UT 84020-9021
US

D0-04-01 (hex) Motorola Mobility LLC, a Lenovo Company
D00401 (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

74-28-57 (hex) Mayfield Robotics
742857 (base 16) Mayfield Robotics
400
Convention Way
Redwood City CA 94063
US

24-E1-24 (hex) Xiamen Milesight IoT Co., Ltd.
24E124 (base 16) Xiamen Milesight IoT Co., Ltd.
Building C09, Software Park Phase III
Xiamen Fujian 361024
CN

DC-68-EB (hex) Nintendo Co.,Ltd
DC68EB (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

E8-36-1D (hex) Sense Labs, Inc.
E8361D (base 16) Sense Labs, Inc.
485 Massachusetts Ave
Cambridge MA 02139
US

78-67-D7 (hex) Apple, Inc.
7867D7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B8-C1-11 (hex) Apple, Inc.
B8C111 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

58-90-43 (hex) Sagemcom Broadband SAS
589043 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

48-D6-D5 (hex) Google, Inc.
48D6D5 (base 16) Google, Inc.
1600
Amphitheatre Parkway
Mountain View CA 94043
US

20-F1-9E (hex) ARRIS Group, Inc.
20F19E (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

C8-9F-42 (hex) VDII Innovation AB
C89F42 (base 16) VDII Innovation AB
Nedre Holländaregatan 5
Helsingborg 25225
SE

50-A8-3A (hex) S Mobile Devices Limited
50A83A (base 16) S Mobile Devices Limited
Unit B-303, 3rd Floor, Tower-B, Plot No-7,Advant IT Park Ltd , Sector-142
NOIDA Uttar Pradesh 201301
IN

64-05-E9 (hex) Shenzhen WayOS Technology Crop., Ltd.
6405E9 (base 16) Shenzhen WayOS Technology Crop., Ltd.
F18, Yousong Business Building, Longhua New District, Shenzhen, China
Shenzhen Guangdong 518109
CN

38-9D-92 (hex) Seiko Epson Corporation
389D92 (base 16) Seiko Epson Corporation
2070 Kotobuki Koaka
Matsumoto-shi Nagano-ken 399-8702
JP

A0-70-99 (hex) Beijing Huacan Electronics Co., Ltd
A07099
(base 16) Beijing Huacan Electronics Co., Ltd
NO.122, Room 2006, 20/F, Qingyun Contemporary Tower, Building 9, Manting Fangyuan Residential District, Qing Yun Li, Hai Dian District
Beijing 100036
CN

40-49-8A (hex) Synapticon GmbH
40498A (base 16) Synapticon GmbH
Daimlerstr. 26
Schönaich 71101
DE

F4-F5-DB (hex) Xiaomi Communications Co Ltd
F4F5DB (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

08-78-08 (hex) Samsung Electronics Co.,Ltd
087808 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong

Gumi Gyeongbuk 730-350
KR

88-75-98 (hex) Samsung Electronics Co.,Ltd
887598 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C0-17-4D (hex) Samsung Electronics Co.,Ltd
C0174D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk
730-350
KR

A4-07-B6 (hex) Samsung Electronics Co.,Ltd
A407B6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

CC-22-37 (hex) IEEE Registration Authority
CC2237 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

70-91-F3 (hex) Universal Electronics, Inc.
7091F3 (base 16) Universal Electronics, Inc.
201 E. Sandpointe Ave
Santa Ana CA 92707
US

A8-E8-24 (hex) INIM ELECTRONICS S.R.L.
A8E824 (base 16) INIM ELECTRONICS S.R.L.
VIA DEI LAVORATORI 10 - FRAZIONE CENTOBUCHI
MONTEPRANDONE ASCOLI PICENO 63076
IT

38-D6-20 (hex) Limidea Concept Pte. Ltd.
38D620 (base 16) Limidea Concept Pte. Ltd.
101 Cecil Street #09-07, Tong Eng Building
Singapore Singapore 069533
SG

08-00-69 (hex) Silicon Graphics
080069 (base 16) Silicon Graphics

2011 N. SHORELINE BLVD.
MOUNTAIN VIEW CA 94039-7311
US

00-22-91 (hex) Cisco
Systems, Inc
002291 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

10-FC-B6 (hex) mirusystems CO.,LTD
10FCB6 (base 16) mirusystems CO.,LTD
#1001, 2-dong, Pangoyo seven venture valley, 228-gil, Pangyo-ro
Bundang-gu, Seongnam-si, Gyeonggi-do 13487
KR

04-D6-AA (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
04D6AA (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak SEMTHAI, WELLGROW INDUSTRIAL ESTATE
Bangpakong Chachoengsao 24180
TH

0C-58-42 (hex) DME Micro
0C5842 (base 16) DME Micro
unit 310 Lakeside 1, 8 Science Park West Ave, Shatin
Hong Kong Hong Kong
HK

74-F9-1A (hex) Onface
74F91A (base 16) Onface
#1408, Mario Tower, 30Gil-28, Digital-ro, Guro-gu
Seoul 08389
KR

A4-34-F1 (hex) Texas Instruments
A434F1 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

BC-3D-85 (hex) HUAWEI TECHNOLOGIES CO.,LTD
BC3D85
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

20-54-FA (hex) HUAWEI TECHNOLOGIES CO.,LTD
2054FA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

38-37-8B (hex) HUAWEI TECHNOLOGIES CO.,LTD
38378B (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

10-49-63 (hex) HARTING K.K.
104963 (base 16) HARTING K.K.
1-7-9, Shin-Yokohama, Kohoku-ku
Yokohama-city Kanagawa 222-0033
JP

BC-82-5D (hex) MITSUMI ELECTRIC CO.,LTD.
BC825D (base 16) MITSUMI ELECTRIC CO.,LTD.
2-11-2, Tsurumaki
Tama-shi Tokyo 206-8567
JP

D0-66-6D (hex) Shenzhen Bus-Lan Technology Co., Ltd.
D0666D (base 16) Shenzhen Bus-Lan Technology Co., Ltd.
928-931 Chuangke Building, 72-1 South Huanguan Rd, Guan Lan Jie Dao, Longhua District
Shenzhen Guangdong 518100
CN

74-5C-4B (hex) GN Audio A/S
745C4B (base 16) GN Audio A/S
Lautrupbjerg 7
Ballerup DK-2750
DK

00-14-9D (hex) Sound ID Inc.
00149D (base 16) Sound ID Inc.
3430 West Bayshore Road
Palo Alto California 94303
US

08-15-2F (hex) Samsung Electronics Co., Ltd. ARTIK
08152F (base 16) Samsung Electronics Co., Ltd. ARTIK
1-1, Samsungjeonja-ro
Hwaseong-si Gyeonggi-do 18448
KR

B8-EE-0E (hex) Sagemcom Broadband SAS
B8EE0E (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

00-06-59 (hex) EAL (Apeldoorn) B.V.
000659 (base 16) EAL (Apeldoorn) B.V.
Molenmakershoek 14
Apeldoorn 7328JK
NL

EC-D0-9F (hex) Xiaomi Communications Co Ltd
ECD09F (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District,
Beijing 100085
CN

78-E1-03 (hex) Amazon Technologies Inc.
78E103 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

8C-E3-8E (hex) Kioxia Corporation
8CE38E (base 16) Kioxia Corporation
1-21, Shibaura 3-chome
Minato-ku Tokyo 108-0023
JP

18-60-24 (hex) Hewlett Packard
186024 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

78-A6-E1 (hex) Brocade Communications Systems LLC
78A6E1 (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

E4-EC-10 (hex) Nokia Corporation
E4EC10 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu Ou 90590

FI

8C-D4-8E (hex) ITEL MOBILE LIMITED
8CD48E (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

64-2B-8A (hex) ALL BEST Industrial Co., Ltd.
642B8A (base
16) ALL BEST Industrial Co., Ltd.
6F., No.210-20, Sec. 3, Zhongyang Rd., Tucheng Dist.,
New Taipei City 23680
TW

00-26-92 (hex) Mitsubishi Electric Corporation
002692 (base 16) Mitsubishi Electric Corporation
2-7-3 Marunouchi
Chiyoda-ku Tokyo 100-8310
JP

44-4E-6D (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
444E6D (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

90-B1-E0 (hex) Beijing Nebula Link Technology Co., Ltd
90B1E0 (base 16) Beijing Nebula Link Technology Co., Ltd
Room 1201, Building C, Caizhi International Plaza, Haidian District
Beijing 100083
CN

6C-09-0A (hex) GEMATICA SRL
6C090A (base 16) GEMATICA SRL
Via Diocleziano, 107
NAPOLI 80125
IT

70-E1-FD (hex) FLEXTRONICS
70E1FD (base 16) FLEXTRONICS
Carretera Base Aerea 5850 int 4
Zapopan Jalisco 45136
MX

74-E6-0F (hex) TECNO
MOBILE LIMITED
74E60F (base 16) TECNO MOBILE LIMITED

ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

00-1A-A7 (hex) Torian Wireless
001AA7 (base 16) Torian Wireless
204 Johnston Street
Collingwood Victoria 3066
AU

00-C0-8F (hex) Panasonic Electric Works Co., Ltd.
00C08F (base 16) Panasonic Electric Works Co., Ltd.
Tsu-Factory
Mie-ken 514-8555 0000
JP

8C-C1-21 (hex) Panasonic Corporation AVC Networks Company
8CC121 (base 16) Panasonic Corporation AVC Networks Company
1-15 Matsuo-cho
Kadoma Osaka 571-8504
JP

EC-04-41 (hex) ShenZhen TIGO Semiconductor Co., Ltd.
EC0441 (base 16) ShenZhen TIGO Semiconductor Co., Ltd.
Room B6-709, Funian Plaza, No.3 Shihua Road, Futian Bonded Area
shenzhen China / Guangdong 518048
CN

B0-35-0B (hex) MOBIWIRE MOBILES (NINGBO) CO.,LTD
B0350B (base
16) MOBIWIRE MOBILES (NINGBO) CO.,LTD
No.999,Dacheng East Road,
Fenghua Zhejiang 315500
CN

28-A6-AC (hex) seca gmbh & co. kg
28A6AC (base 16) seca gmbh & co. kg
Hammer Steindamm 3-25
Hamburg Germany 22089
DE

AC-BE-75 (hex) Ufine Technologies Co.,Ltd.
ACBE75 (base 16) Ufine Technologies Co.,Ltd.
46, Geumgok-dong, Bundang-gu
Seong-nam-si Gyeonggi-do 463-804
KR

A8-BE-27 (hex) Apple, Inc.
A8BE27 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C0-A5-3E (hex) Apple, Inc.
C0A53E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

0C-B4-59 (hex) Marketech International Corp.
0CB459 (base 16) Marketech International Corp.
10F.,NO.3-2,Yuancyu St.,Nangang Dist.
Taipei 11503
TW

80-14-A8 (hex) Guangzhou V-SOLUTION Electronic Technology Co., Ltd.
8014A8 (base 16) Guangzhou V-SOLUTION Electronic Technology Co., Ltd.
Room 406,Originality
Building B3, NO.162 Science Avenue,Science Town
Guangzhou Guangdong 510663
CN

58-61-63 (hex) Quantum Networks (SG) Pte. Ltd.
586163 (base 16) Quantum Networks (SG) Pte. Ltd.
8, UBI ROAD, 2 ZERVEX #08-10,
Singapore 408538
SG

40-9B-CD (hex) D-Link International
409BCD (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy, Singapore
Singapore Singapore 609917
SG

00-2E-C7 (hex) HUAWEI TECHNOLOGIES CO.,LTD
002EC7 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

48-8E-EF (hex) HUAWEI TECHNOLOGIES CO.,LTD
488EEF (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

54-75-95 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
547595 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

C4-71-54 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
C47154 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

50-E9-71 (hex) Jibo, Inc.
50E971 (base 16) Jibo, Inc.
230 Congress Street
Boston MA 02110
US

30-F7-7F (hex) S Mobile Devices Limited
30F77F (base 16) S Mobile Devices Limited
Unit B-303, 3rd Floor, Tower-B, Plot No-7,Advant IT Park Ltd , Sector-142
NOIDA Uttar Pradesh 201301
IN

D8-6C-63 (hex) Google, Inc.
D86C63 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

08-40-F3 (hex) Tenda Technology Co.,Ltd.Dongguan branch
0840F3 (base 16) Tenda Technology Co.,Ltd.Dongguan branch
Room 79,Yuanyi Road,Dalang Town,Dongguan Guangdong 523770
Dongguan Guangdong 523770
CN

94-FB-B2
(hex) SHENZHEN GONGJIN ELECTRONICS CO.,LT
94FBB2 (base 16) SHENZHEN GONGJIN ELECTRONICS CO.,LT
No.1, Songgang Avenue, Songgang Street, Bao’an District
Shenzhen Guangdong 518105
CN

94-D0-29 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
94D029 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,

DONG GUAN GUANG DONG 523860
CN

30-84-54 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
308454 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

5C-03-39 (hex) HUAWEI TECHNOLOGIES CO.,LTD
5C0339 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F8-28-19 (hex) Liteon Technology Corporation
F82819 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

EC-3D-FD (hex) SHENZHEN
BILIAN ELECTRONIC CO.LTD
EC3DFD (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268 Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

00-1E-99 (hex) Vantanol Industrial Corporation
001E99 (base 16) Vantanol Industrial Corporation
9F, NO 31 . Shin-Tai Road
Jubei City Shinchu 302
TW

58-B6-33 (hex) Ruckus Wireless
58B633 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

54-3D-37 (hex) Ruckus Wireless
543D37 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

5C-51-81 (hex) Samsung Electronics Co.,Ltd
5C5181 (base 16) Samsung Electronics Co.,Ltd

#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

60-8E-08 (hex) Samsung Electronics Co.,Ltd
608E08 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-C0-5D (hex) L&N TECHNOLOGIES
00C05D (base 16) L&N
TECHNOLOGIES
2899 AGOURA ROAD #196
WESTLAKE VILLAGE CA 91361-3200
US

FC-5A-1D (hex) Hitron Technologies. Inc
FC5A1D (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

94-14-7A (hex) vivo Mobile Communication Co., Ltd.
94147A (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

18-D2-25 (hex) Fiberhome Telecommunication Technologies Co.,LTD
18D225 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

F8-8A-3C (hex) IEEE Registration Authority
F88A3C (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

A4-04-50 (hex) nFore Technology Inc.
A40450 (base 16) nFore Technology Inc.
5F, NO 31, Ln 258, Rulguang Rd
Taipei Neihu District 11491
TW

18-B4-30 (hex) Nest

Labs Inc.
18B430 (base 16) Nest Labs Inc.
3400 Hillview Ave.
Palo Alto CA 94304
US

30-B1-64 (hex) Power Electronics International Inc.
30B164 (base 16) Power Electronics International Inc.
561-8 Plate Drive
East Dundee 60118
US

58-C5-83 (hex) ITEL MOBILE LIMITED
58C583 (base 16) ITEL MOBILE LIMITED
RM B3 & B4 BLOCK B, KO FAI INDUSTRIAL BUILDING NO.7 KO FAI ROAD, YAU TONG, KLN, H.K
Hong Kong KOWLOON 999077
HK

18-20-4C (hex) Kummler+Matter AG
18204C (base 16) Kummler+Matter AG
Hohlstrasse 176
Zürich 8004
CH

98-28-A6 (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
9828A6 (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO. 25, THE 3RD Street KUNSHAN EXPORT PROCESSING ZONE
KUNSHAN SUZHOU 215300
CN

2C-E6-CC (hex) Ruckus Wireless
2CE6CC (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

00-22-7F (hex) Ruckus Wireless
00227F
(base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

74-91-1A (hex) Ruckus Wireless
74911A (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

88-0F-10 (hex) Huami Information Technology Co.,Ltd.
880F10 (base 16) Huami Information Technology Co.,Ltd.
Room 1201 Building A4, National Animation Industry Base
Hefei Anhui 230088
CN

14-61-2F (hex) Avaya Inc
14612F (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

00-30-9D (hex) Nimble Microsystems, Inc.
00309D (base 16) Nimble Microsystems, Inc.
50 Church Street - 5th Floor
Cambridge MA 02138
US

8C-21-0A (hex) TP-LINK TECHNOLOGIES CO.,LTD.
8C210A (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park,Shennan Rd, Nanshan
shenzhen guangdong Province 518057
CN

4C-18-9A (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS
CORP.,LTD
4C189A (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

68-1D-EF (hex) Shenzhen CYX Technology Co., Ltd.
681DEF (base 16) Shenzhen CYX Technology Co., Ltd.
2/F, Bldg. 6, Guangxi Industrial Park, Jianshe Rd., Longhua New Dist., Shenzhen
Shenzhen 518109
CN

AC-20-3E (hex) Wuhan Tianyu Information Industry Co., Ltd.
AC203E (base 16) Wuhan Tianyu Information Industry Co., Ltd.
HUST Industry Park, East-Lake Development Zone
Wuhan Hubei 430223
CN

B0-1F-29 (hex) Helvetia INC.
B01F29 (base 16) Helvetia INC.
8-11 tokaichi-nishimachi, kitaku
Okayama okayama 7000856

JP

00-15-DC (hex) KT&C Co., Ltd.
0015DC (base 16) KT&C Co., Ltd.
487-4, KT&C Bldg.
GangSeo-Ku Seoul 157-849
KR

00-18-7D (hex) Armorlink Co .Ltd
00187D (base 16) Armorlink Co .Ltd
No. 515 of Xinzhuang Industry Park Shenfu Road
Shanghai
Province Shanghai 201108
CN

F4-30-B9 (hex) Hewlett Packard
F430B9 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

CC-4B-73 (hex) AMPAK Technology, Inc.
CC4B73 (base 16) AMPAK Technology, Inc.
No.1,Jen Ai Road Hsinchu Industrial Park, Hukou
Hsinchu Taiwan ROC. 30352
TW

00-1B-17 (hex) Palo Alto Networks
001B17 (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

58-49-3B (hex) Palo Alto Networks
58493B (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

78-6D-94 (hex) Palo Alto Networks
786D94 (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

94-3F-C2 (hex) Hewlett Packard Enterprise
943FC2 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.

Roseville CA 95747
US

C8-DB-26 (hex) Logitech
C8DB26 (base 16) Logitech
7700 Gateway Blvd
Newark
CA 94560
US

A4-0E-2B (hex) Facebook Inc
A40E2B (base 16) Facebook Inc
1 Hacker Way
Menlo Park CA 94025
US

AC-4E-2E (hex) Shenzhen JingHanDa Electronics Co.Ltd
AC4E2E (base 16) Shenzhen JingHanDa Electronics Co.Ltd
5th Floor,No 4 ,Road 1,ShangXue Technology industrial Park,LongGang district,ShenZhen,GuangDong,China
ShenZhen GuangDong 518129
CN

4C-91-0C (hex) Lanix Internacional, S.A. de C.V.
4C910C (base 16) Lanix Internacional, S.A. de C.V.
Carretera Nogales Km8.5
Hermosillo Sonora 83160
MX

54-C9-DF (hex) FN-LINK TECHNOLOGY LIMITED
54C9DF (base 16) FN-LINK TECHNOLOGY LIMITED
A Building,HuiXin industial park,No 31, YongHe road, Fuyong town, Bao'an District
SHENZHEN GUANGDONG 518100
CN

A4-78-86 (hex) Avaya Inc
A47886 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

F4-0E-83 (hex) ARRIS Group, Inc.
F40E83 (base 16) ARRIS Group, Inc.
6450
Sequence Drive
San Diego CA 92121
US

98-F7-D7 (hex) ARRIS Group, Inc.

98F7D7 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

74-F6-1C (hex) HTC Corporation
74F61C (base 16) HTC Corporation
No. 23, Xinghua Rd., Taoyuan City
Taoyuan County Taiwan 330
TW

2C-3A-E8 (hex) Espressif Inc.
2C3AE8 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

88-BD-78 (hex) Flaircomm Microelectronics,Inc.
88BD78 (base 16) Flaircomm Microelectronics,Inc.
7F, Guomai Building, Guomai Science and Technology Park, 116 East JiangBin Road,
Fuzhou Fujian 350015
CN

58-C5-CB (hex) Samsung Electronics Co.,Ltd
58C5CB (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B4-BF-F6 (hex) Samsung Electronics Co.,Ltd
B4BFF6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi
Gyeongbuk 730-350
KR

04-03-D6 (hex) Nintendo Co.,Ltd
0403D6 (base 16) Nintendo Co.,Ltd
11-1 HOKOTATE-CHO KAMITOBA,MINAMI-KU
KYOTO KYOTO 601-8501
JP

20-6B-E7 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
206BE7 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

18-2C-B4 (hex) Nectarsoft Co., Ltd.
182CB4 (base 16) Nectarsoft Co., Ltd.
330, Seongam-ro, Mapo-gu
Seoul Seoul 03920
KR

84-C0-EF (hex) Samsung Electronics Co.,Ltd
84C0EF (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

00-A3-8E (hex) Cisco Systems, Inc
00A38E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

5C-1A-6F (hex) Cambridge Industries(Group) Co.,Ltd.
5C1A6F (base 16) Cambridge Industries(Group) Co.,Ltd.
5/F,Building
8, 2388 ChenHang Road, MinHang District
shanghai 201114
CN

3C-4C-D0 (hex) CERAGON NETWORKS
3C4CD0 (base 16) CERAGON NETWORKS
24 RAUEL WALLENBERG STREET
TEL-AVIV 96719
IL

A0-C9-A0 (hex) Murata Manufacturing Co., Ltd.
A0C9A0 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

60-08-37 (hex) ivvi Scientific(Nanchang)Co.Ltd
600837 (base 16) ivvi Scientific(Nanchang)Co.Ltd
Coolpad Cyber Harbor,2nd Mengxi Road,Hi-TechIndustrial Park(North),NanShan District,ShenZhen,P.R.C.
shenzhen Guangdong 518057
CN

28-C6-3F (hex) Intel Corporate
28C63F (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

88-CC-45 (hex) Skyworth Digital Technology(Shenzhen) Co.,Ltd
88CC45 (base 16) Skyworth Digital Technology(Shenzhen) Co.,Ltd
7F,Block A,Skyworth Building,
Shenzhen Guangdong 518057
CN

B8-FF-B3 (hex) MitraStar Technology
Corp.
B8FFB3 (base 16) MitraStar Technology Corp.
No. 6, Innovation Road II,
Hsinchu 300
TW

EC-36-3F (hex) Markov Corporation
EC363F (base 16) Markov Corporation
650 Vaqueros Avenue, Suite A
Sunnyvale CA 94085
US

58-04-CB (hex) Tianjin Huisun Technology Co.,Ltd.
5804CB (base 16) Tianjin Huisun Technology Co.,Ltd.
4/f, Building 3, No 1 Haitai Huake Street (outside Ring Road)
Tianjin 300384
CN

60-D7-E3 (hex) IEEE Registration Authority
60D7E3 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

18-93-D7 (hex) Texas Instruments
1893D7 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

A8-B8-6E (hex) LG Electronics (Mobile Communications)
A8B86E (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

98-2D-BA (hex) Fibergate Inc.
982DBA (base 16) Fibergate Inc.
KDX

Shibadaimon.Bld 2F 2-10-12 Shibadaimon
Tokyo Minato-ku 1050012
JP

E0-D5-5E (hex) GIGA-BYTE TECHNOLOGY CO.,LTD.
E0D55E (base 16) GIGA-BYTE TECHNOLOGY CO.,LTD.
Pin-Jen City, Taoyuan, Taiwan, R.O.C.
Pin-Jen Taoyuan 324
TW

A0-40-A0 (hex) NETGEAR
A040A0 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

CC-90-E8 (hex) Shenzhen YOUHUA Technology Co., Ltd
CC90E8 (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

7C-4F-7D (hex) Sawwave
7C4F7D (base 16) Sawwave
SKn TechnoPark 1207
SeongNam-Si Gyenggi-do 13207
KR

9C-AC-6D (hex) Universal Electronics, Inc.
9CAC6D (base 16) Universal Electronics, Inc.
201 E. Sandpointe Ave
Santa Ana CA 92707
US

08-ED-02 (hex) IEEE Registration Authority
08ED02 (base 16) IEEE Registration Authority
445
Hoes Lane
Piscataway NJ 08554
US

E8-FD-E8 (hex) CeLa Link Corporation
E8FDE8 (base 16) CeLa Link Corporation
401-1, Partners Tower1, Gasan digital 1-ro 83, Geumcheon-gu
Seoul 08589
KR

C4-0B-CB (hex) Xiaomi Communications Co Ltd

C40BCB (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

00-0D-2B (hex) Racal Instruments
000D2B (base 16) Racal Instruments
4 Goodyear Street
Irvine CA 92618
US

00-40-66 (hex) APRESIA Systems Ltd
004066 (base 16) APRESIA Systems Ltd
Tsukuba Network Technical Center, Kidamari 3550
Tsuchiura-shi Ibaraki-ken 300-0026
JP

48-A7-4E (hex) zte corporation
48A74E (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

BC-8A-E8 (hex) QING DAO HAIER TELECOM CO.,LTD.
BC8AE8 (base 16) QING DAO HAIER
TELECOM CO.,LTD.
No 1 Haier Road Hi-tech Zone
Qingdao 266000
CN

F4-DE-0C (hex) ESPOD Ltd.
F4DE0C (base 16) ESPOD Ltd.
6 Marjanishvili St. (Green Building) | 0102 Tbilisi | Georgia
Tbilisi Tbilisi 0102
GE

3C-52-82 (hex) Hewlett Packard
3C5282 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

B8-37-65 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
B83765 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

34-5B-BB (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
345BBB (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

7C-7B-8B (hex) Control Concepts, Inc.
7C7B8B (base 16) Control Concepts, Inc.
18760 Lake Dr. East
Chanhassen MN 55317
US

84-A9-C4 (hex) HUAWEI TECHNOLOGIES CO.,LTD
84A9C4
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A0-08-6F (hex) HUAWEI TECHNOLOGIES CO.,LTD
A0086F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

34-CE-00 (hex) XIAOMI Electronics,CO.,LTD
34CE00 (base 16) XIAOMI Electronics,CO.,LTD
Xiaomi Building, No.68 Qinghe Middle Street
Haidian District Beijing 100085
CN

D0-6F-82 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D06F82 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A0-F4-79 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A0F479 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

84-47-65 (hex) HUAWEI TECHNOLOGIES CO.,LTD
844765 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2
Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

C4-FF-1F (hex) HUAWEI TECHNOLOGIES CO.,LTD
C4FF1F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A0-C4-A5 (hex) SYGN HOUSE INC.
A0C4A5 (base 16) SYGN HOUSE INC.
2-9-14 Tamagawa-denenchofu
Setagaya-ku Tokyo 1580085
JP

5C-C6-E9 (hex) Edifier International
5CC6E9 (base 16) Edifier International
Suit 2207, 22nd floor, Tower II, Lippo centre, 89 Queensway
Hong Kong 070
CN

08-EA-40 (hex) SHENZHEN BILIAN ELECTRONIC CO.LTD
08EA40 (base 16) SHENZHEN BILIAN ELECTRONIC CO.LTD
NO.268 Fuqian Rd, Jutang community, Guanlan Town, Longhua New district
shenzhen guangdong 518000
CN

84-AF-EC (hex) BUFFALO.INC
84AFEC (base 16) BUFFALO.INC
AKAMONDORI Bld.,30-20,Ohsu 3-chome,Naka-ku
Nagoya Aichi Pref. 460-8315
JP

14-BD-61 (hex) Apple,
Inc.
14BD61 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

98-DD-EA (hex) Infinix mobility limited
98DDEA (base 16) Infinix mobility limited
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
HongKong HongKong 999077
HK

00-1D-44 (hex) Krohne
001D44 (base 16) Krohne

Ludwig-Krohne-Str. 5
Duisburg 47058
DE

A8-A1-98 (hex) TCT mobile ltd
A8A198 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

E0-C0-D1 (hex) CK Telecom (Shenzhen) Limited
E0C0D1 (base 16) CK Telecom (Shenzhen) Limited
Floor 9th, Building 4C,Software Industry Base, Xuefu Road, Hi-Tech Park, Nanshan Dist.
Shenzhen Guangdong 518057
CN

C0-D3-C0 (hex) Samsung Electronics Co.,Ltd
C0D3C0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

94-8B-C1 (hex) Samsung
Electronics Co.,Ltd
948BC1 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

14-56-8E (hex) Samsung Electronics Co.,Ltd
14568E (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

68-37-E9 (hex) Amazon Technologies Inc.
6837E9 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

2C-A1-7D (hex) ARRIS Group, Inc.
2CA17D (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

D8-32-14 (hex) Tenda Technology Co.,Ltd.Dongguan branch

D83214 (base 16) Tenda Technology Co.,Ltd.Dongguan branch
Room 79,Yuanyi Road,Dalang Town,Dongguan Guangdong 523770
Dongguan Guangdong 523770
CN

10-95-4B (hex) Megabyte Ltd.
10954B (base 16) Megabyte Ltd.
Unit 507, 5/F, Building 12W, NO.12 Science Park Avenue, Hong Kong Science Park, Shatin, New Territories
Hong Kong NA
HK

00-D0-95 (hex) Alcatel-Lucent
Enterprise
00D095 (base 16) Alcatel-Lucent Enterprise
26801 West Agoura Road
Calabasas CA 91301
US

00-20-DA (hex) Alcatel-Lucent Enterprise
0020DA (base 16) Alcatel-Lucent Enterprise
26801 West Agoura Road
CALABASAS CA 91301
US

6C-59-76 (hex) Shanghai Tricheer Technology Co.,Ltd.
6C5976 (base 16) Shanghai Tricheer Technology Co.,Ltd.
Rm 907, Building 1, Lane 399, Shengxia Road,Zhangjiang Hi-Tech Park,Pudong District,Shanghai
Shanghai Shanghai 201203
CN

D0-49-8B (hex) ZOOM SERVER
D0498B (base 16) ZOOM SERVER
North keyuan Road
Shenzhen 518057
CN

08-27-CE (hex) NAGANO KEIKI CO., LTD.
0827CE (base 16) NAGANO KEIKI CO., LTD.
2150 IKUTA
UEDA NAGANO 386-0411
JP

00-21-9E (hex) Sony Corporation
00219E (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

AC-B5-7D (hex) Liteon Technology Corporation
ACB57D (base 16) Liteon
Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

D4-61-9D (hex) Apple, Inc.
D4619D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

50-3A-7D (hex) AlphaTech PLC Int'l Co., Ltd.
503A7D (base 16) AlphaTech PLC Int'l Co., Ltd.
13F., No.618, Sec. 7, New Taipei Blvd., Xinzhuang Dist.,
New Taipei City 24260
TW

F4-C4-D6 (hex) Shenzhen Xinfa Electronic Co.,ltd
F4C4D6 (base 16) Shenzhen Xinfa Electronic Co.,ltd
No 57, Baoli Road, Buji Town
Longgang District Shenzhen, Guangdong 518112
CN

7C-50-49 (hex) Apple, Inc.
7C5049 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E4-7D-EB (hex) Shanghai Notion Information Technology CO.,LTD.
E47DEB (base 16) Shanghai Notion Information Technology CO.,LTD.
Room 201,Building 3,NO 289,Bisheng Rd,Pudong district,Shanghai,China
Shanghai Shanghai 201203
CN

D8-32-5A (hex) Shenzhen
YOUHUA Technology Co., Ltd
D8325A (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

9C-DA-3E (hex) Intel Corporate
9CDA3E (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000

MY

C4-B9-CD (hex) Cisco Systems, Inc
C4B9CD (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

EC-4F-82 (hex) Calix Inc.
EC4F82 (base 16) Calix Inc.
2777 Orchard Pkwy
San Jose CA 95131
US

00-2C-C8 (hex) Cisco Systems, Inc
002CC8 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

C0-02-8D (hex) WINSTAR Display CO.,Ltd
C0028D (base 16) WINSTAR Display CO.,Ltd
1F., No.77, Ln. 188, Pinghe S. Rd., Daya Dist., Taichung City 428, Taiwan (R.O.C.)
Taichung City 428
TW

E8-9F-EC (hex) CHENGDU KT ELECTRONIC HI-TECH
CO.,LTD
E89FEC (base 16) CHENGDU KT ELECTRONIC HI-TECH CO.,LTD
No.9, 3rd Wuke Road, Wuhou District
Chengdu Sichuan Province 610045
CN

80-26-89 (hex) D-Link International
802689 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy, Singapore
Singapore Singapore 609917
SG

F8-AB-05 (hex) Sagemcom Broadband SAS
F8AB05 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

00-10-81 (hex) DPS, INC.
001081 (base 16) DPS, INC.
4922 EAST YALE AVENUE

FRESNO CA 93727
US

40-F3-85 (hex) IEEE Registration Authority
40F385 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

88-78-73 (hex) Intel Corporate
887873 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

50-1E-2D (hex) StreamUnlimited Engineering GmbH
501E2D (base 16) StreamUnlimited Engineering
GmbH
Gutheil-Schoder-Gasse 10
Vienna 1100
AT

E4-5D-51 (hex) SFR
E45D51 (base 16) SFR
12 rue jean-philippe Rameau CS 80001
La plaine saint denis FRANCE 93634
FR

D4-61-FE (hex) Hangzhou H3C Technologies Co., Limited
D461FE (base 16) Hangzhou H3C Technologies Co., Limited
466 Changhe Road, Binjiang District
Hangzhou Zhejiang, P.R.China 310052
CN

F8-75-88 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F87588 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F4-4C-7F (hex) HUAWEI TECHNOLOGIES CO.,LTD
F44C7F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A0-A3-3B (hex) HUAWEI TECHNOLOGIES CO.,LTD
A0A33B (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

28-3F-69 (hex) Sony
Corporation
283F69 (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

00-23-8A (hex) Ciena Corporation
00238A (base 16) Ciena Corporation
920 Elkridge Landing
Linthicum MD 21090
US

7C-67-A2 (hex) Intel Corporate
7C67A2 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

2C-4D-54 (hex) ASUSTek COMPUTER INC.
2C4D54 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

34-96-72 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
349672 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

64-B4-73 (hex) Xiaomi Communications Co Ltd
64B473 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

74-51-BA
(hex) Xiaomi Communications Co Ltd
7451BA (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

6C-B4-A7 (hex) Landauer, Inc.
6CB4A7 (base 16) Landauer, Inc.
2 Science Road
Glenwood IL 60425
US

48-A3-80 (hex) Gionee Communication Equipment Co.,Ltd.
48A380 (base 16) Gionee Communication Equipment Co.,Ltd.
21/F,Times Technology Building,No. 7028,Shennan Avenue,Futian District
Shenzhen 518000
CN

94-65-2D (hex) OnePlus Technology (Shenzhen) Co., Ltd
94652D (base 16) OnePlus Technology (Shenzhen) Co., Ltd
18C02, 18C03, 18C04 ,18C05,TAIRAN BUILDING,
Shenzhen Guangdong 518000
CN

B0-F1-EC (hex) AMPAK Technology, Inc.
B0F1EC (base 16) AMPAK Technology, Inc.
No.1,Jen Ai Road Hsinchu Industrial Park, Hukou
Hsinchu Taiwan ROC. 30352
TW

54-2B-57 (hex) Night Owl SP
542B57 (base 16) Night
Owl SP
4720 Radio Rd
Naples FL 34104
US

08-00-27 (hex) PCS Systemtechnik GmbH
080027 (base 16) PCS Systemtechnik GmbH
600 Suffold St
Lowell MA 01854
US

EC-01-EE (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
EC01EE (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,
DONG GUAN GUANG DONG 523860
CN

60-49-C1 (hex) Avaya Inc
6049C1 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

70-20-84 (hex) Hon Hai Precision Industry Co., Ltd.
702084 (base 16) Hon Hai Precision Industry Co., Ltd.
GuangDongShenZhen
ShenZhen GuangDong 518109
CN

9C-66-50 (hex) Glodio Technolies Co.,Ltd Tianjin Branch
9C6650 (base 16) Glodio Technolies Co.,Ltd Tianjin Branch
Room 904, No.1-2 LanYuan Road, HuaYuan Industrial Area
TianJin TianJin 300384
CN

00-60-D3 (hex) AT&T
0060D3 (base 16) AT&T
3300 E Renner Road
Richardson
TX 75082
US

84-8D-C7 (hex) Cisco SPVTG
848DC7 (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

04-5D-4B (hex) Sony Corporation
045D4B (base 16) Sony Corporation
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

78-AF-58 (hex) GIMASI SA
78AF58 (base 16) GIMASI SA
Via Luigi Lavizzari 18
Mendrisio TI 6850
CH

00-E0-5A (hex) GALEA NETWORK SECURITY
00E05A (base 16) GALEA NETWORK SECURITY
2 PLACE du COMMERCE - STE #320
BROSSARD, QUEBEC J4W 2T8
CA

F0-6E-32 (hex) MICROTEL INNOVATION S.R.L.
F06E32 (base 16) MICROTEL INNOVATION S.R.L.
Via Armentera 8
BORGO VALSUGANA TN 38051

IT

3C-F8-62 (hex) Intel Corporate
3CF862 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

F8-A5-C5 (hex) Cisco Systems, Inc
F8A5C5 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

7C-5A-1C (hex) Sophos
Ltd
7C5A1C (base 16) Sophos Ltd
The Pentagon
Abingdon Oxfordshire OX14 3YP
GB

78-02-F8 (hex) Xiaomi Communications Co Ltd
7802F8 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

2C-0B-E9 (hex) Cisco Systems, Inc
2C0BE9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

90-50-5A (hex) unGlue, Inc
90505A (base 16) unGlue, Inc
7150 Helmsdale Circle
West Hils CA 91307
US

8C-93-51 (hex) Jigowatts Inc.
8C9351 (base 16) Jigowatts Inc.
5892-5 Endo
Fujisawa Kanagawa 252-0816
JP

34-78-D7 (hex) Gionee Communication Equipment Co.,Ltd.
3478D7 (base 16) Gionee Communication Equipment Co.,Ltd.
21/F,Times Technology Building,No. 7028,Shennan Avenue,Futian District

Shenzhen 518000
CN

5C-CC-A0 (hex) Gridwiz Inc.
5CCCA0 (base 16) Gridwiz Inc.
4F,
25 Sanun-ro 208beon-gil, Bundang-gu
Seongnam Gyeonggi 13460
KR

58-00-E3 (hex) Liteon Technology Corporation
5800E3 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

1C-B8-57 (hex) Becon Technologies Co,.Ltd.
1CB857 (base 16) Becon Technologies Co,.Ltd.
Room C405-A Induckwon IT Vally, 40, Imiro
Uiwang city Kyunggi-do 16006
KR

68-27-37 (hex) Samsung Electronics Co.,Ltd
682737 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

28-16-AD (hex) Intel Corporate
2816AD (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D0-FF-98 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D0FF98 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B0-E5-ED (hex) HUAWEI TECHNOLOGIES CO.,LTD
B0E5ED (base 16) HUAWEI TECHNOLOGIES
CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-86-E9 (hex) HUAWEI TECHNOLOGIES CO.,LTD

C486E9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-19-92 (hex) Adtran Inc
001992 (base 16) Adtran Inc
901 Explorer Blvd.
Huntsville AL 35806-2807
US

68-31-FE (hex) Teladin Co.,Ltd.
6831FE (base 16) Teladin Co.,Ltd.
Digital-ro 33 gil, Guro-gu
Seoul 08377
KR

C4-30-18 (hex) MCS Logic Inc.
C43018 (base 16) MCS Logic Inc.
6F. Samho Center B Bldg., 275-6,Yangjae-Dong, Secho-Ku,Seoul
Seoul 137-941
KR

00-0A-E4 (hex) Wistron Corporation
000AE4 (base 16) Wistron Corporation
21F, No. 88, Section 1, Hsin Tai Wu Rd.
Taipei 221
TW

FC-3C-E9 (hex) Tsingtong Technologies Co, Ltd.
FC3CE9 (base 16) Tsingtong Technologies Co, Ltd.
Rm A03-72, Floor B1, Building
1, No.13 Dazhongsi, Haidian District
Beijing 100098
CN

34-4B-3D (hex) Fiberhome Telecommunication Technologies Co.,LTD
344B3D (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan City Hubei Province 430074
CN

A4-08-F5 (hex) Sagemcom Broadband SAS
A408F5 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

00-B0-91 (hex) Transmeta Corp.
00B091 (base 16) Transmeta Corp.
3940 Freedom Circle
Santa Clara CA 95054
US

58-40-4E (hex) Apple, Inc.
58404E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D0-C5-F3 (hex) Apple, Inc.
D0C5F3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

BC-9F-EF (hex) Apple, Inc.
BC9FEF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

20-AB-37 (hex) Apple, Inc.
20AB37 (base 16) Apple, Inc.
1
Infinite Loop
Cupertino CA 95014
US

60-F4-45 (hex) Apple, Inc.
60F445 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-C6-62 (hex) MitraStar Technology Corp.
ACC662 (base 16) MitraStar Technology Corp.
No. 6, Innovation Road II,
Hsinchu 300
TW

88-6B-44 (hex) Sunnovo International Limited
886B44 (base 16) Sunnovo International Limited
1717 Haitai Building
Beijing Beijing 100083
CN

D8-38-FC (hex) Ruckus Wireless
D838FC (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

A4-58-0F (hex) IEEE Registration Authority
A4580F (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

E0-A7-00 (hex) Verkada Inc
E0A700 (base 16) Verkada Inc
325 Sharon Park Drive, Suite 519
Menlo Park 94025
US

48-F9-7C (hex) Fiberhome Telecommunication Technologies Co.,LTD
48F97C (base 16) Fiberhome Telecommunication
Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

40-B9-3C (hex) Hewlett Packard Enterprise
40B93C (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

C0-BF-C0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C0BFC0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-30-48 (hex) Super Micro Computer, Inc.
003048 (base 16) Super Micro Computer, Inc.
2051 Junction Avenue
San Jose CA 95131
US

9C-D9-CB (hex) Lesira Manufacturing Pty Ltd
9CD9CB (base 16) Lesira Manufacturing Pty Ltd
34 Gemsbok Street
Pretoria Gauteng 0186

ZA

94-E9-79 (hex) Liteon Technology Corporation
94E979 (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

C8-F7-33 (hex) Intel Corporate
C8F733 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech
2/3
Kulim Kedah 09000
MY

A0-3D-6F (hex) Cisco Systems, Inc
A03D6F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A0-E0-AF (hex) Cisco Systems, Inc
A0E0AF (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

8C-19-2D (hex) IEEE Registration Authority
8C192D (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

00-AC-E0 (hex) ARRIS Group, Inc.
00ACE0 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-75-32 (hex) INID BV
007532 (base 16) INID BV
Mariettahof 27
Haarlem NH 2033WS
NL

64-73-E2 (hex) Arbiter Systems, Inc.
6473E2 (base 16) Arbiter Systems, Inc.
1324 Vendels Circle

Paso Robles California 93446
US

E4-5D-52 (hex) Avaya Inc
E45D52 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

A0-8C-F8 (hex) HUAWEI TECHNOLOGIES
CO.,LTD
A08CF8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

44-D2-44 (hex) Seiko Epson Corporation
44D244 (base 16) Seiko Epson Corporation
80 Harashinden
Shiojiri-shi Nagano-ken 399-0785
JP

4C-B8-1C (hex) SAM Electronics GmbH
4CB81C (base 16) SAM Electronics GmbH
Behringstr. 120
Hamburg Hamburg 22763
DE

7C-F9-5C (hex) U.I. Lapp GmbH
7CF95C (base 16) U.I. Lapp GmbH
Schulze-Delitzsch-Strasse 25
Stuttgart 70565
DE

10-13-31 (hex) Technicolor Delivery Technologies Belgium NV
101331 (base 16) Technicolor Delivery Technologies Belgium NV
Prins Boudewijnlaan 47
Edegem - Belgium B-2650
BE

B4-96-91 (hex) Intel Corporate
B49691 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-76-86 (hex) Cisco Systems, Inc
007686 (base 16) Cisco Systems, Inc

80 West Tasman
Drive
San Jose CA 94568
US

8C-2F-A6 (hex) Solid Optics B.V.
8C2FA6 (base 16) Solid Optics B.V.
Huchtstraat 35
Almere 1327EC
NL

A4-E6-B1 (hex) Shanghai Joindata Technology Co.,Ltd.
A4E6B1 (base 16) Shanghai Joindata Technology Co.,Ltd.
26F,Building1,No428,South Yanggao Road,Pudong District
Shanghai Shanghai 200127
CN

C0-9C-04 (hex) Shaanxi GuoLian Digital TV Technology Co.,Ltd.
C09C04 (base 16) Shaanxi GuoLian Digital TV Technology Co.,Ltd.
No. 15, the first Gaoxin road Hi-tech development district
Xi'an Shaanxi 710075
CN

AC-D6-57 (hex) Shaanxi GuoLian Digital TV Technology Co.,Ltd.
ACD657 (base 16) Shaanxi GuoLian Digital TV Technology Co.,Ltd.
Chief Building, Fifth Yannan Road, Qujiang New District
xi'an shaanxi 71000
CN

3C-EF-8C (hex) Zhejiang Dahua Technology Co., Ltd.
3CEF8C (base 16) Zhejiang Dahua Technology Co., Ltd.
NO.1199 Bin An Road,Binjiang District,HangZhou,P.R.China
HangZhou
ZheJiang 310053
CN

D0-60-8C (hex) zte corporation
D0608C (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

7C-03-C9 (hex) Shenzhen YOUHUA Technology Co., Ltd
7C03C9 (base 16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

D4-C8-B0 (hex) Prime Electronics & Satellitics Inc.
D4C8B0 (base 16) Prime Electronics & Satellitics Inc.
69,Tung-Yuan Rd
Chung-Li City Tao-Yuan County 32000
TW

C8-21-58 (hex) Intel Corporate
C82158 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

24-20-C7 (hex) Sagemcom Broadband SAS
2420C7 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

04-81-AE (hex) Clack Corporation
0481AE
(base 16) Clack Corporation
4462 Duraform Lane
Windsor WI 53598
US

9C-13-AB (hex) Chanson Water Co., Ltd.
9C13AB (base 16) Chanson Water Co., Ltd.
2F, No.88-11, Sec 1, Guangfu Rd, Sanchong Dist.
New Taipei City Taiwan 241
TW

70-3D-15 (hex) Hangzhou H3C Technologies Co., Limited
703D15 (base 16) Hangzhou H3C Technologies Co., Limited
466 Changhe Road, Binjiang District
Hangzhou Zhejiang, P.R.China 310052
CN

E4-9E-12 (hex) FREEBOX SAS
E49E12 (base 16) FREEBOX SAS
16 rue de la Ville l'Eveque
PARIS IdF 75008
FR

B8-E9-37 (hex) Sonos, Inc.
B8E937 (base 16) Sonos, Inc.
614 Chapala St
Santa Barbara CA 93101
US

AC-23-3F (hex) Shenzhen Minew Technologies Co., Ltd.
AC233F (base 16) Shenzhen Minew Technologies Co., Ltd.
H Building, Gangzhilong Science Park, QInglong Road
Shenzhen 518109
CN

3C-80-AA (hex) Ransnet Singapore Pte Ltd
3C80AA (base 16) Ransnet
Singapore Pte Ltd
114, Lavender Street, #08-83, CT Hub 2
Singapore Singapore 338729
SG

88-C6-26 (hex) Logitech, Inc
88C626 (base 16) Logitech, Inc
4700 NW Camas Meadows Dr
Camas WA 98607
US

00-23-F7 (hex) Private
0023F7 (base 16) Private

14-A5-1A (hex) HUAWEI TECHNOLOGIES CO.,LTD
14A51A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

04-75-03 (hex) HUAWEI TECHNOLOGIES CO.,LTD
047503 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A4-D9-A4 (hex) neXus ID Solutions AB
A4D9A4 (base 16) neXus ID Solutions AB
Telefonvägen 26
Stockholm 12626
SE

E0-2C-F3 (hex) MRS Electronic GmbH
E02CF3 (base 16) MRS Electronic GmbH
Klaus-Gutsch-Str. 7
Rottweil 78628
DE

50-B3-63 (hex) Digitron da Amazonia S/A

50B363 (base 16) Digitron
da Amazonia S/A
Av. Eng. Luis Carlos Berrini , 1297
São Paulo São Paulo 04571010
BR

D4-E9-0B (hex) CVT CO.,LTD
D4E90B (base 16) CVT CO.,LTD
Secho gu BangBae 3 dong 1001-1
seoul KangNam KS013
KR

CC-B0-DA (hex) Liteon Technology Corporation
CCB0DA (base 16) Liteon Technology Corporation
4F, 90, Chien 1 Road
New Taipei City Taiwan 23585
TW

98-E4-76 (hex) Zentan
98E476 (base 16) Zentan
10F-3, No. 260, Sec.2 New Taipei Blvd., Sanchong District
New Taipei City 24158
TW

18-F2-92 (hex) Shannon Systems
18F292 (base 16) Shannon Systems
Suite 1801,Wentong Building,739 Kunming Road, Yangpu, Shanghai
Shanghai 200000
CN

8C-EA-1B (hex) Edgecore Networks Corporation
8CEA1B (base 16) Edgecore Networks Corporation
1 Creation RD 3.
Hsinchu 30077
TW

2C-0E-3D (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
2C0E3D (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T.
Bangsamak SEMTHAI, WELLGROW INDUSTRIAL ESTATE
Bangpakong Chachoengsao 24180
TH

44-6A-B7 (hex) ARRIS Group, Inc.
446AB7 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

70-1C-E7 (hex) Intel Corporate
701CE7 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

9C-2A-70 (hex) Hon Hai Precision Ind. Co.,Ltd.
9C2A70 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

58-E1-6C (hex) Ying Hua Information Technology (Shanghai)Co., LTD
58E16C (base 16) Ying Hua Information Technology (Shanghai)Co., LTD
Room 37 ,Building 13b, No. 4 , lane 600, Tianshan Road ,Changning District Shanghai
Shanghai 201210
CN

00-D7-8F (hex) Cisco Systems, Inc
00D78F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

44-09-B8 (hex) Salcomp (Shenzhen) CO., LTD.
4409B8
(base 16) Salcomp (Shenzhen) CO., LTD.
Salcomp Road, Furong Industrial Area, Xinqiao, Shajing, Baoan District
Shenzhen Guangdong 518125
CN

04-BA-36 (hex) Li Seng Technology Ltd
04BA36 (base 16) Li Seng Technology Ltd
Rm901, 9/F Shiu Fung Hong Building, 239-241 Wing Lok Street, Hong Kong
Hong Kong 0000
HK

10-72-23 (hex) TELLESCOM INDUSTRIA E COMERCIO EM TELECOMUNICACAO
107223 (base 16) TELLESCOM INDUSTRIA E COMERCIO EM TELECOMUNICACAO
Av. Buriti, 1900 – Setor B – Distrito Industrial
Manaus Amazonas 69075-000
BR

48-7A-55 (hex) ALE International
487A55 (base 16) ALE International
32 avenue Kléber
Colombes 92700

FR

00-1E-AE (hex) Continental Automotive Systems Inc.
001EAE (base 16) Continental Automotive Systems Inc.
21440 West Lake Cook Road
Deer Park IL 60010
US

2C-BA-BA (hex) Samsung Electronics Co.,Ltd
2CBABA (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi
Gyeongbuk 730-350
KR

D0-3D-C3 (hex) AQ Corporation
D03DC3 (base 16) AQ Corporation
205, Saneop-ro 155beon-gil, Gwonseon-gu
Suwon Gyeonggi-do 16648
KR

EC-01-E2 (hex) FOXCONN INTERCONNECT TECHNOLOGY
EC01E2 (base 16) FOXCONN INTERCONNECT TECHNOLOGY
66-1, Chungshan Rd., Tucheng Dist.
New Taipei City Taiwan (R.O.C.) 23680
TW

CC-FD-17 (hex) TCT mobile ltd
CCFD17 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

50-2B-73 (hex) Tenda Technology Co.,Ltd.Dongguan branch
502B73 (base 16) Tenda Technology Co.,Ltd.Dongguan branch
Room 79,Yuanyi Road,Dalang Town,Dongguan Guangdong 523770
Dongguan Guangdong 523770
CN

B4-E7-82 (hex) Vivalnk
B4E782 (base 16) Vivalnk
4655 Old Ironsides Dr, #390
Santa Clara CA 95054
US

40-D3-AE (hex) Samsung Electronics Co.,Ltd
40D3AE (base 16) Samsung Electronics Co.,Ltd
#94-1,

Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

2C-DD-95 (hex) Taicang T&W Electronics
2CDD95 (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

88-E8-7F (hex) Apple, Inc.
88E87F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

9C-F4-8E (hex) Apple, Inc.
9CF48E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

5C-F7-E6 (hex) Apple, Inc.
5CF7E6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B8-53-AC (hex) Apple, Inc.
B853AC (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

20-3C-AE (hex) Apple, Inc.
203CAE (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A0-3B-E3 (hex) Apple, Inc.
A03BE3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

4C-32-75 (hex) Apple, Inc.
4C3275 (base 16) Apple, Inc.

1 Infinite Loop
Cupertino
CA 95014
US

9C-7D-A3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
9C7DA3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A4-C6-4F (hex) HUAWEI TECHNOLOGIES CO.,LTD
A4C64F (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

18-61-C7 (hex) lemonbeat GmbH
1861C7 (base 16) lemonbeat GmbH
Deutsche Str. 5
Dortmund 44339
DE

B4-F8-1E (hex) Kinova
B4F81E (base 16) Kinova
6110, rue Doris-Lussier,
Boisbriand Qc J7H 0E8
CA

20-5D-47 (hex) vivo Mobile Communication Co., Ltd.
205D47 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

10-C6-0C (hex) Domino UK Ltd
10C60C (base 16) Domino UK Ltd
Trafalgar Way
Cambridge Cambridgeshire CB23 8TU
GB

04-31-10 (hex) Inspur Group
Co., Ltd.
043110 (base 16) Inspur Group Co., Ltd.
No.1036 Langchao Rd.
Jinan Shandong 250101
CN

94-9A-A9 (hex) Microsoft Corporation
949AA9 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052
US

AC-AB-2E (hex) Beijing LasNubes Technology Co., Ltd.
ACAB2E (base 16) Beijing LasNubes Technology Co., Ltd.
Chao-Yang-Bei-Lu No. 103, Room 1109-1110
Beijing 100025
CN

00-06-78 (hex) D&M Holdings Inc.
000678 (base 16) D&M Holdings Inc.
D&M Building, 2-1 Nisshin-cho
Kawasaki-shi Kanagawa 210-8569
JP

E0-28-6D (hex) AVM Audiovisuelles Marketing und Computersysteme GmbH
E0286D (base 16) AVM Audiovisuelles Marketing und Computersysteme GmbH
Alt-Moabit 95
Berlin Berlin 10559
DE

E0-68-6D (hex) Raybased AB
E0686D (base 16) Raybased AB
A Odhners Gata 41
Västra Frölunda 42130
SE

88-4C-CF (hex) Pulzze Systems, Inc
884CCF (base 16) Pulzze Systems,
Inc
1290-B Reamwood Ave
Sunnyvale CA 94089
US

00-16-28 (hex) Magicard Ltd
001628 (base 16) Magicard Ltd
Hampshire Road
Weymouth Dorset DT4 9XD
GB

70-2E-22 (hex) zte corporation
702E22 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

38-16-D1 (hex) Samsung Electronics Co.,Ltd
3816D1 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D0-17-6A (hex) Samsung Electronics Co.,Ltd
D0176A (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D4-88-90 (hex) Samsung Electronics Co.,Ltd
D48890 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

54-92-BE (hex) Samsung Electronics Co.,Ltd
5492BE (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

30-23-03 (hex) Belkin
International Inc.
302303 (base 16) Belkin International Inc.
12045 East Waterfront Drive
Playa Vista null 90094
US

AC-17-C8 (hex) Cisco Meraki
AC17C8 (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco null 94158
US

98-18-88 (hex) Cisco Meraki
981888 (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco null 94158
US

4C-C8-A1 (hex) Cisco Meraki
4CC8A1 (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco null 94158

US

C8-B2-1E (hex) CHIPSEA TECHNOLOGIES (SHENZHEN) CORP.
C8B21E (base 16) CHIPSEA TECHNOLOGIES (SHENZHEN) CORP.
9F,BLOCK A,GARDEN CITY DIGITAL BUILDING,NO.1079 NANHAI ROAD,NANSHAN DISTRICT
SHEN ZHEN GUANG DONG 518000
CN

60-0B-03 (hex) Hangzhou H3C Technologies Co., Limited
600B03 (base 16) Hangzhou H3C Technologies Co., Limited
466 Changhe Road, Binjiang District
Hangzhou Zhejiang, P.R.China 310052
CN

A0-AB-1B
(hex) D-Link International
A0AB1B (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy, Singapore
Singapore Singapore 609917
SG

D8-42-E2 (hex) Canary Connect, Inc.
D842E2 (base 16) Canary Connect, Inc.
132 East 43rd Street
New York 10017
US

5C-0A-5B (hex) SAMSUNG ELECTRO MECHANICS CO., LTD.
5C0A5B (base 16) SAMSUNG ELECTRO MECHANICS CO., LTD.
314, Maetan3-Dong, Yeongtong-Gu
Suwon 443-743
US

38-59-F9 (hex) Hon Hai Precision Ind. Co.,Ltd.
3859F9 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

EC-55-F9 (hex) Hon Hai Precision Ind. Co.,Ltd.
EC55F9 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

90-6E-BB (hex) Hon Hai Precision Ind. Co.,Ltd.
906EBB (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone

1st Road
Chongqing Chongqing 401332
CN

18-F4-6A (hex) Hon Hai Precision Ind. Co.,Ltd.
18F46A (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

4C-0F-6E (hex) Hon Hai Precision Ind. Co.,Ltd.
4C0F6E (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

78-E4-00 (hex) Hon Hai Precision Ind. Co.,Ltd.
78E400 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

E4-12-18 (hex) ShenZhen Rapoo Technology Co., Ltd.
E41218 (base 16) ShenZhen Rapoo Technology Co., Ltd.
22,Jinxiu Road East,Pingshan District,Shenzhen,China
Shenzhen Guangdong 518122
CN

00-19-84 (hex) ESTIC Corporation
001984 (base 16) ESTIC Corporation
2-5-9 Hashibahigashino-cho
Moriguchi Osaka 570-0031
JP

00-21-2F (hex) Phoebe Micro Inc.
00212F
(base 16) Phoebe Micro Inc.
47606 Kato Rd
Fremont CA 94538
US

C8-E7-76 (hex) PTCOM Technology
C8E776 (base 16) PTCOM Technology
NO.189-8, SEC. 3, NANJING E. RD., ZHONGSHAN DIST.
Taipei 10488
TW

7C-E9-D3 (hex) Hon Hai Precision Ind. Co.,Ltd.

7CE9D3 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

1C-3E-84 (hex) Hon Hai Precision Ind. Co.,Ltd.
1C3E84 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

B8-76-3F (hex) Hon Hai Precision Ind. Co.,Ltd.
B8763F (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

60-F4-94 (hex) Hon Hai Precision Ind. Co.,Ltd.
60F494 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

80-56-F2
(hex) Hon Hai Precision Ind. Co.,Ltd.
8056F2 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

00-1B-98 (hex) Samsung Electronics Co.,Ltd
001B98 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
GUMI Gyeong-Buk 730-350
KR

00-1A-8A (hex) Samsung Electronics Co.,Ltd
001A8A (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi-City Gyeong-Buk 730-350
KR

3C-5A-37 (hex) Samsung Electronics Co.,Ltd
3C5A37 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F4-9F-54 (hex) Samsung Electronics Co.,Ltd
F49F54 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

34-C3-AC (hex) Samsung Electronics Co.,Ltd
34C3AC (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

44-F4-59 (hex) Samsung Electronics
Co.,Ltd
44F459 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-26-5D (hex) Samsung Electronics Co.,Ltd
00265D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-25-67 (hex) Samsung Electronics Co.,Ltd
002567 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

98-52-B1 (hex) Samsung Electronics Co.,Ltd
9852B1 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

14-F4-2A (hex) Samsung Electronics Co.,Ltd
14F42A (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

08-08-C2 (hex) Samsung Electronics Co.,Ltd
0808C2 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

CC-FE-3C (hex) Samsung Electronics Co.,Ltd
CCFE3C (base 16) Samsung Electronics Co.,Ltd
#94-1,
Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

28-BA-B5 (hex) Samsung Electronics Co.,Ltd
28BAB5 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E4-40-E2 (hex) Samsung Electronics Co.,Ltd
E440E2 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

10-3B-59 (hex) Samsung Electronics Co.,Ltd
103B59 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D8-90-E8 (hex) Samsung Electronics Co.,Ltd
D890E8 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C4-62-EA (hex) Samsung Electronics Co.,Ltd
C462EA (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

18-26-66 (hex) Samsung Electronics Co.,Ltd
182666 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

30-D6-C9 (hex) Samsung
Electronics Co.,Ltd
30D6C9 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong

Gumi Gyeongbuk 730-350
KR

CC-07-AB (hex) Samsung Electronics Co.,Ltd
CC07AB (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-1C-43 (hex) Samsung Electronics Co.,Ltd
001C43 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-23-D6 (hex) Samsung Electronics Co.,Ltd
0023D6 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

BC-B1-F3 (hex) Samsung Electronics Co.,Ltd
BCB1F3 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

1C-62-B8 (hex) Samsung Electronics Co.,Ltd
1C62B8 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

CC-F9-E8 (hex) Samsung Electronics Co.,Ltd
CCF9E8 (base 16) Samsung Electronics Co.,Ltd
#94-1,
Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D8-57-EF (hex) Samsung Electronics Co.,Ltd
D857EF (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

18-E2-C2 (hex) Samsung Electronics Co.,Ltd
18E2C2 (base 16) Samsung Electronics Co.,Ltd

#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-02-78 (hex) SAMSUNG ELECTRO MECHANICS CO., LTD.
000278 (base 16) SAMSUNG ELECTRO MECHANICS CO., LTD.
314, Mae-tan-dong,
Suwon Suwon KOREA
KR

00-23-99 (hex) Samsung Electronics Co.,Ltd
002399 (base 16) Samsung Electronics Co.,Ltd
416, Maetan-3dong, yeongtong-gu, Suwon-city
suwon 443-742
KR

7C-F8-54 (hex) Samsung Electronics Co.,Ltd
7CF854 (base 16) Samsung Electronics Co.,Ltd
415, Maetan-3dong, Yeongtong-gu, Suwon-City Gyeonggi-do 443-742
Suwon 443-742
KR

C4-73-1E (hex) Samsung Electronics Co.,Ltd
C4731E (base 16) Samsung Electronics Co.,Ltd
416,
Maetan 3dong, Yeongtong-Gu
Suwon Gyeonggi-Do 443742
KR

B4-3A-28 (hex) Samsung Electronics Co.,Ltd
B43A28 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

78-A8-73 (hex) Samsung Electronics Co.,Ltd
78A873 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E4-12-1D (hex) Samsung Electronics Co.,Ltd
E4121D (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-26-D9 (hex) ARRIS Group, Inc.

0026D9 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

8C-61-02 (hex) Beijing Baofengmojing Technologies Co., Ltd
8C6102 (base 16) Beijing Baofengmojing Technologies Co., Ltd
7/F, Tower C, Zhizhen Plaza, No.7 Zhichun Rd, Haidian District
Beijing 100191
CN

54-8C-A0 (hex) Liteon Technology Corporation
548CA0 (base 16) Liteon Technology Corporation
4F, 90,
Chien 1 Road
New Taipei City Taiwan 23585
TW

34-57-60 (hex) MitraStar Technology Corp.
345760 (base 16) MitraStar Technology Corp.
No. 6, Innovation Road II,
Hsinchu 300
TW

C0-D3-91 (hex) IEEE Registration Authority
C0D391 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

D4-9B-5C (hex) Chongqing Miedu Technology Co., Ltd.
D49B5C (base 16) Chongqing Miedu Technology Co., Ltd.
7-602 No.118 DaPing Main Street Yuzhong District
Chongqing 400000
CN

BC-8A-A3 (hex) NHN Entertainment
BC8AA3 (base 16) NHN Entertainment
Play Museum, 629 Sampyeong-dong, Bundang-gu
Seongnam-si, Gyeonggi-do 463-400
KR

A8-BD-27 (hex) Hewlett Packard Enterprise
A8BD27 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

44-D6-E1 (hex) Snuza International Pty. Ltd.
44D6E1 (base 16) Snuza International Pty. Ltd.
Unit 11, Roeland
Square, Roeland Street
Cape Town Western Cape 8001
ZA

48-6D-BB (hex) Vestel Elektronik San ve Tic. A.S.
486DBB (base 16) Vestel Elektronik San ve Tic. A.S.
Organize san
Manisa Turket 45030
TR

00-2A-10 (hex) Cisco Systems, Inc
002A10 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-A2-89 (hex) Cisco Systems, Inc
00A289 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

84-BE-52 (hex) HUAWEI TECHNOLOGIES CO.,LTD
84BE52 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

84-9F-B5 (hex) HUAWEI TECHNOLOGIES CO.,LTD
849FB5 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A4-CA-A0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
A4CAA0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road,
Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

84-E0-F4 (hex) IEEE Registration Authority
84E0F4 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554

US

D8-30-62 (hex) Apple, Inc.
D83062 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

44-E9-DD (hex) Sagemcom Broadband SAS
44E9DD (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
RUEIL MALMAISON CEDEX Hauts de Seine 92848
FR

00-0F-5E (hex) Veo
000F5E (base 16) Veo
910 Rincon Circle
San Jose CA 95131
US

00-13-28 (hex) Westech Korea Inc.,
001328 (base 16) Westech Korea Inc.,
548-9, Gajwa3-Dong,Seo-ku,
Incheon 404-817
KR

B8-BF-83 (hex) Intel Corporate
B8BF83 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

7C-79-E8 (hex) PayRange Inc.
7C79E8 (base 16) PayRange Inc.
700 NE Multnomah St. Ste 1400
Portland OR
97232
US

A4-31-11 (hex) ZIV
A43111 (base 16) ZIV
Polígono Parque Tecnológico, 210
ZAMUDIO VIZCAYA 48170
ES

00-80-73 (hex) DWB ASSOCIATES
008073 (base 16) DWB ASSOCIATES
9360 SW GEMINI DRIVE

BEAVERTON OR 97005-7151
US

80-A1-D7 (hex) Shanghai DareGlobal Technologies Co.,Ltd
80A1D7 (base 16) Shanghai DareGlobal Technologies Co.,Ltd
22F,Info Tech Building,No.1555,Kongjiang Rd.
Shanghai 200092
CN

00-D0-37 (hex) ARRIS Group, Inc.
00D037 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

84-E0-58 (hex) ARRIS Group, Inc.
84E058 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

70-76-30 (hex) ARRIS Group, Inc.
707630 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

E8-50-8B (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
E8508B (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak
Bangpakong
Chachoengsao 24180
TH

F8-04-2E (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
F8042E (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak
Bangpakong Chachoengsao 24180
TH

EC-1F-72 (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
EC1F72 (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93 Moo5T. Bangsamak
Bangpakong Chachoengsao 24180
TH

8C-0D-76 (hex) HUAWEI TECHNOLOGIES CO.,LTD
8C0D76 (base 16) HUAWEI TECHNOLOGIES CO.,LTD

No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D0-E5-4D (hex) ARRIS Group, Inc.
D0E54D (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

A0-C5-62 (hex) ARRIS Group, Inc.
A0C562 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

84-96-D8 (hex) ARRIS Group, Inc.
8496D8 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

20-3D-B2
(hex) HUAWEI TECHNOLOGIES CO.,LTD
203DB2 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

48-D5-39 (hex) HUAWEI TECHNOLOGIES CO.,LTD
48D539 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C8-8D-83 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C88D83 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-E0-11 (hex) UNIDEN CORPORATION
00E011 (base 16) UNIDEN CORPORATION
2-12-7 Hatchobori,
Chuo-ku Tokyo 104-8512
JP

00-25-55 (hex) Visonic Technologies 1993 Ltd.

002555 (base 16) Visonic Technologies 1993 Ltd.
23 Habarzel st'
Tel - Aviv 69710
IL

58-98-6F (hex) Revolution Display
58986F (base 16) Revolution Display
912 Ruberta Ave
Glendale CA 91201
US

58-FB-84
(hex) Intel Corporate
58FB84 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

E8-EB-11 (hex) Texas Instruments
E8EB11 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

00-22-61 (hex) Frontier Silicon Ltd
002261 (base 16) Frontier Silicon Ltd
137 Euston Road
London NW12AA
GB

04-BB-F9 (hex) Pavilion Data Systems Inc
04BBF9 (base 16) Pavilion Data Systems Inc
2560 N 1st St, #220
San Jose CA 95131
US

00-C0-17 (hex) NetAlly
00C017 (base 16) NetAlly
2075 Research Parkway
Colorado Springs CO 80920
US

5C-B0-66 (hex) ARRIS Group, Inc.
5CB066 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

B4-A9-84 (hex) Symantec Corporation
B4A984 (base 16) Symantec Corporation
350 Ellis Street
Mountain View CA 94043
US

B0-B2-8F (hex) Sagemcom Broadband SAS
B0B28F (base 16) Sagemcom Broadband
SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

44-14-41 (hex) AudioControl Inc.
441441 (base 16) AudioControl Inc.
22410 70Th Ave West, STE 1
Mountlake Terrace WA 98043
US

44-BF-E3 (hex) Shenzhen Longtech Electronics Co.,Ltd
44BFE3 (base 16) Shenzhen Longtech Electronics Co.,Ltd
No.148 Zhengfeng Industrial Area Donghuan RD Huangpu Village Shaijing Town Baoan District
Shenzhen Guangdong 518125
CN

34-07-4F (hex) AccelStor, Inc.
34074F (base 16) AccelStor, Inc.
10F, No. 465, Sec. 6, Zhongxiao E. Rd., Nangang Dist.
Taipei City 11557
TW

3C-6F-EA (hex) Panasonic India Pvt. Ltd.
3C6FEA (base 16) Panasonic India Pvt. Ltd.
12th Floor, Ambience Tower, Ambience Island, NH - 8
Gurgaon Haryana 122002
IN

C8-1F-BE (hex) HUAWEI TECHNOLOGIES CO.,LTD
C81FBE (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan
523808
CN

00-19-88 (hex) Wi2Wi, Inc
001988 (base 16) Wi2Wi, Inc
2107 N. 1st Street
San Jose CA 95131

US

18-DC-56 (hex) Yulong Computer Telecommunication Scientific (Shenzhen) Co.,Ltd
18DC56 (base 16) Yulong Computer Telecommunication Scientific (Shenzhen) Co.,Ltd
8/F.high Tech Plaza,TianAn Cyberpark,Chegongmiao
Shenzhen Guangdong 518040
CN

00-16-F2 (hex) Dmobile System Co., Ltd.
0016F2 (base 16) Dmobile System Co., Ltd.
2F, No.13-20, Sec.6, Mincyuan E.Rd,
Taipei 114
TW

00-1F-9A (hex) Nortel Networks
001F9A (base 16) Nortel Networks
2221 Lakeside Blvd
Richardson TX 75082-4399
US

00-0A-0E (hex) Invivo Research Inc.
000A0E (base 16) Invivo Research Inc.
12601 Research Parkway
Orlando Florida 32826
US

00-04-38 (hex) Nortel Networks
000438 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

60-EE-5C (hex) SHENZHEN FAST
TECHNOLOGIES CO.,LTD
60EE5C (base 16) SHENZHEN FAST TECHNOLOGIES CO.,LTD
Room 202,Building No.5,Section 30,No.2 of Kefa Road,Nanshan District,Shenzhen,P.R.China
Shenzhen Guangdong 518057
CN

64-88-FF (hex) Sichuan Changhong Electric Ltd.
6488FF (base 16) Sichuan Changhong Electric Ltd.
35 East Mianxing Road,High-Tech Park,
MianYang SiChuan 621000
CN

00-1E-7E (hex) Nortel Networks
001E7E (base 16) Nortel Networks
8200 Dixie Rd

Brampton Ontario 0000
CA

00-13-65 (hex) Nortel Networks
001365 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-21-62 (hex) Nortel Networks
002162 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

02-E6-D3 (hex) NIXDORF COMPUTER CORP.
02E6D3 (base 16) NIXDORF COMPUTER CORP.
NIXDORF TECHNOLOGY CENTER
SANTA CLARA CA 95054
US

00-16-B9 (hex) ProCurve Networking by HP
0016B9 (base 16) ProCurve
Networking by HP
8000 Foothills Blvd
Roseville CA 95747
US

00-0E-C0 (hex) Nortel Networks
000EC0 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

00-16-60 (hex) Nortel Networks
001660 (base 16) Nortel Networks
8200 Dixie Rd
Brampton Ontario 0000
CA

3C-40-4F (hex) GUANGDONG PISEN ELECTRONICS CO.,LTD
3C404F (base 16) GUANGDONG PISEN ELECTRONICS CO.,LTD
Building C,Liuyue Jintang Industry Zone
Shenzhen Guangdong 518173
CN

D8-4F-B8 (hex) LG ELECTRONICS
D84FB8 (base 16) LG ELECTRONICS

84 Wanam-ro Seongsan-gu
Changwon-si Gyeongsangnam-do 642-713
KR

48-88-CA (hex) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
4888CA (base 16) Motorola (Wuhan) Mobility Technologies Communication Co., Ltd.
No.19, Gaoxin 4th Road, Wuhan East Lake High-tech Zone, Wuhan
Wuhan Hubei 430000
CN

38-56-10 (hex) CANDY HOUSE, Inc.
385610 (base 16) CANDY
HOUSE, Inc.
119 University Ave.
Palo Alto CA 94301
US

00-A7-42 (hex) Cisco Systems, Inc
00A742 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0A-EB (hex) TP-LINK TECHNOLOGIES CO.,LTD.
000AEB (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Hi-Tech Park R1-B3
Shenzhen Guangdong 518057
CN

2C-37-31 (hex) SHENZHEN YIFANG DIGITAL TECHNOLOGY CO.,LTD.
2C3731 (base 16) SHENZHEN YIFANG DIGITAL TECHNOLOGY CO.,LTD.
Building # 22 and #23, Zone 5, Bai Wang Xin Industrial Park, Song Bai Road
ShenZhen GUANGDONG 518108
CN

00-11-6E (hex) Peplink International Ltd.
00116E (base 16) Peplink International Ltd.
17/F., Park Building
Cheung Sha Wan Kowloon 0000
HK

54-09-55 (hex) zte corporation
540955 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

C4-08-4A (hex) Nokia

C4084A (base 16) Nokia
600
March Road
Kanata Ontario K2K 2E6
CA

00-08-01 (hex) HighSpeed Surfing Inc.
000801 (base 16) HighSpeed Surfing Inc.
44790 S. Grimmer Blvd.
Fremont CA 94538
US

00-07-72 (hex) Alcatel-Lucent Shanghai Bell Co., Ltd
000772 (base 16) Alcatel-Lucent Shanghai Bell Co., Ltd
No. 389, Ningqiao Road, Pudong Jinqiao
Shanghai 201206
CN

E0-30-05 (hex) Alcatel-Lucent Shanghai Bell Co., Ltd
E03005 (base 16) Alcatel-Lucent Shanghai Bell Co., Ltd
No. 389, Ningqiao Road, Pudong Jinqiao
Shanghai 201206
CN

0C-A4-02 (hex) Alcatel-Lucent IPD
0CA402 (base 16) Alcatel-Lucent IPD
600 March Drive
Kanata Ontario K2K2E6
CA

A0-F3-E4 (hex) Alcatel-Lucent IPD
A0F3E4 (base 16) Alcatel-Lucent IPD
600 March Drive
Kanata Ontario K2K2E6
CA

84-DB-FC (hex) Nokia
84DBFC (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

84-D9-31 (hex) Hangzhou H3C Technologies Co.,
Limited
84D931 (base 16) Hangzhou H3C Technologies Co., Limited
466 Changhe Road, Binjiang District
Hangzhou Zhejiang, P.R.China 310052
CN

7C-FC-3C (hex) Visteon Corporation
7CFC3C (base 16) Visteon Corporation
One Village Center Drive
Van Buren Twp MI 48111
US

98-1E-0F (hex) Jeelan (Shanghai Jeelan Technology Information Inc
981E0F (base 16) Jeelan (Shanghai Jeelan Technology Information Inc
Room 302,Building 17, No.658, Jinzhong Road
shanghai 200052
CN

34-14-5F (hex) Samsung Electronics Co.,Ltd
34145F (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

9C-A3-A9 (hex) Guangzhou Juan Optical and Electronical Tech Joint Stock Co., Ltd
9CA3A9 (base 16) Guangzhou Juan Optical and Electronical Tech Joint Stock Co., Ltd
NO.9, street 3, HengLing industrial zone, Tangdong, tianhe district
Guangzhou Guangdong 510000
CN

7C-C7-09 (hex) SHENZHEN RF-LINK
TECHNOLOGY CO.,LTD.
7CC709 (base 16) SHENZHEN RF-LINK TECHNOLOGY CO.,LTD.
Bldg56A, 6/F, Baotian Rd3, Baoan District, Shenzhen, P.R.C
Shenzhen Guangdong 518100
CN

08-21-EF (hex) Samsung Electronics Co.,Ltd
0821EF (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C0-41-F6 (hex) LG ELECTRONICS INC
C041F6 (base 16) LG ELECTRONICS INC
19-1,Cheongho-Ri,Jinwi-Myeon
Pyeongtaek Gyeonggi-Do 451-713
KR

00-1E-75 (hex) LG Electronics (Mobile Communications)
001E75 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801

KR

A0-3E-6B (hex) IEEE Registration Authority
A03E6B (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

98-02-D8 (hex) IEEE Registration Authority
9802D8 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

64-FB-81 (hex) IEEE
Registration Authority
64FB81 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

2C-26-5F (hex) IEEE Registration Authority
2C265F (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

00-1C-62 (hex) LG Electronics (Mobile Communications)
001C62 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

50-55-27 (hex) LG Electronics (Mobile Communications)
505527 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

88-C9-D0 (hex) LG Electronics (Mobile Communications)
88C9D0 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

8C-3A-E3 (hex) LG Electronics (Mobile Communications)
8C3AE3 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu

Seoul 153-801
KR

00-AA-70
(hex) LG Electronics (Mobile Communications)
00AA70 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

F8-95-C7 (hex) LG Electronics (Mobile Communications)
F895C7 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

14-61-02 (hex) Alps Alpine
146102 (base 16) Alps Alpine
20-1, Yoshima Industrial Park
Iwaki Fukushima 970-1192
JP

54-27-6C (hex) Jiangsu Houge Technology Corp.
54276C (base 16) Jiangsu Houge Technology Corp.
No.20 Xizhang North Road, Fenghuang Town
Zhangjiagang Jiangsu 215614
CN

D0-05-2A (hex) Arcadyan Corporation
D0052A (base 16) Arcadyan Corporation
No.8, Sec.2, Guangfu Rd.
Hsinchu City Hsinchu 30071
TW

EC-68-81 (hex) Palo Alto Networks
EC6881 (base 16) Palo Alto Networks
3000 Tannery Way
Santa Clara CA 95054
US

E4-50-9A (hex) HW
Communications Ltd
E4509A (base 16) HW Communications Ltd
Parkfield
Lancaster LA1 4TZ
GB

70-29-00 (hex) Shenzhen ChipTrip Technology Co,Ltd

702900 (base 16) Shenzhen ChipTrip Technology Co,Ltd
The 8th floor of VIA Technology Building NO. 9966 Shennan road , Nanshan Distict Shenzhen
Shenzhen 518000
CN

14-E7-C8 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
14E7C8 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

EC-CD-6D (hex) Allied Telesis, Inc.
ECCD6D (base 16) Allied Telesis, Inc.
3041 Orchard Parkway
San Jose 95134
US

18-33-9D (hex) Cisco Systems, Inc
18339D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-23-97 (hex) Westell Technologies Inc.
002397 (base 16) Westell Technologies Inc.
750 N Commons Dr
Aurora IL 60504
US

00-E0-DD (hex) Zenith
Electronics Corporation
00E0DD (base 16) Zenith Electronics Corporation
1000 MILWAUKEE AVENUE
GLENVIEW IL 60025
US

50-CE-75 (hex) Measy Electronics Co., Ltd.
50CE75 (base 16) Measy Electronics Co., Ltd.
#1506, Block B, Hai Song Bldg, Tairan 9th Road
Shenzhen Guang Dong 518040
CN

00-0C-29 (hex) VMware, Inc.
000C29 (base 16) VMware, Inc.
3401 Hillview Avenue
Palo Alto CA 94304
US

00-05-69 (hex) VMware, Inc.
000569 (base 16) VMware, Inc.
3401 Hillview Avenue
Palo Alto CA 94304
US

00-04-5B (hex) Techsan Electronics Co., Ltd.
00045B (base 16) Techsan Electronics Co., Ltd.
North Wing
UNITED KINGDOM
GB

00-07-BA (hex) UTStarcom Inc
0007BA (base 16) UTStarcom Inc
1275 Harbor Bay PKWY
Alameda CA 94502
US

90-A2-10 (hex) United Telecoms Ltd
90A210 (base 16) United Telecoms Ltd
18A/19,Doddanekundi Industrial Area,
Bangalore Karanataka 560048
IN

6C-0B-84
(hex) Universal Global Scientific Industrial Co., Ltd.
6C0B84 (base 16) Universal Global Scientific Industrial Co., Ltd.
141, Lane 351, TaiPing Road, Sec.1
Tsao-Tuen Nan-Tou 54261
TW

90-A4-6A (hex) SISNET CO., LTD
90A46A (base 16) SISNET CO., LTD
1409, SJ Technoville 60-19, Gasan-dong, Geumcheon-Gu
Seoul KS013
KR

EC-AA-A0 (hex) PEGATRON CORPORATION
ECAAA0 (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

60-E3-AC (hex) LG Electronics (Mobile Communications)
60E3AC (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

90-F0-52 (hex) MEIZU Technology Co., Ltd.
90F052 (base 16) MEIZU Technology Co., Ltd.
MEIZU Tech Bldg., Technology & Innovation Coast
Zhuhai Guangdong 519085
CN

8C-FD-F0 (hex) Qualcomm Inc.
8CFDF0 (base 16) Qualcomm Inc.
5775 Morehouse Drive
San
Diego CA 92121
US

C4-BB-4C (hex) Zebra Information Tech Co. Ltd
C4BB4C (base 16) Zebra Information Tech Co. Ltd
Room 415, No.569 Anchi Road, JiaDing District
Shanghai 201804
CN

00-16-39 (hex) Ubiquam Co., Ltd.
001639 (base 16) Ubiquam Co., Ltd.
Technovill 4F,272-3 Yatap3
Seongnam Kyeonggi 463-836
KR

00-15-97 (hex) AETA AUDIO SYSTEMS
001597 (base 16) AETA AUDIO SYSTEMS
18-22, avenue Edouard Herriot
Le Plessis Robinson 92350
FR

00-0B-0E (hex) Trapeze Networks
000B0E (base 16) Trapeze Networks
5753 W. Las Positas Blvd
Pleasanton CA 94588
US

00-C0-00 (hex) LANOPTICS, LTD.
00C000 (base 16) LANOPTICS, LTD.
P.O. BOX 184
ISRAEL ISRAEL 10551
IL

6C-25-B9 (hex) BBK EDUCATIONAL ELECTRONICS CORP.,LTD.
6C25B9 (base 16) BBK EDUCATIONAL ELECTRONICS CORP.,LTD.
LiWu INDUSTRIAL PARK,Wusha,Chang'an
Dong Guan Guang Dong 523860

CN

2C-28-2D (hex) BBK
EDUCATIONAL ELECTRONICS CORP.,LTD.
2C282D (base 16) BBK EDUCATIONAL ELECTRONICS CORP.,LTD.
LiWu INDUSTRIAL PARK,Wusha,Chang'an
Dong Guan Guang Dong 523860
CN

48-13-F3 (hex) BBK EDUCATIONAL ELECTRONICS CORP.,LTD.
4813F3 (base 16) BBK EDUCATIONAL ELECTRONICS CORP.,LTD.
LiWu INDUSTRIAL PARK,Wusha,Chang'an
Dong Guan Guang Dong 523860
CN

00-40-9F (hex) Telco Systems, Inc.
00409F (base 16) Telco Systems, Inc.
15 Berkshire Road
Mansfield, MA 02048
US

00-00-1F (hex) Telco Systems, Inc.
00001F (base 16) Telco Systems, Inc.
15 Berkshire Road
Mansfield MA 02048
US

00-A0-12 (hex) Telco Systems, Inc.
00A012 (base 16) Telco Systems, Inc.
15 Berkshire Road
Mansfield MA 02048
US

F0-DE-F1 (hex) Wistron Infocomm (Zhongshan) Corporation
F0DEF1 (base 16) Wistron Infocomm (Zhongshan) Corporation
168KunShan,
JiangSu 215300
CN

F8-0F-41 (hex) Wistron Infocomm (Zhongshan)
Corporation
F80F41 (base 16) Wistron Infocomm (Zhongshan) Corporation
Torch High-tech Industrial Development Zone,
ZhongShan Guangdong 528437
CN

3C-97-0E (hex) Wistron InfoComm(Kunshan)Co.,Ltd.
3C970E (base 16) Wistron InfoComm(Kunshan)Co.,Ltd.

168# First Avence,
Kunshan JiangSu 215300
CN

98-CF-53 (hex) BBK EDUCATIONAL ELECTRONICS CORP.,LTD.
98CF53 (base 16) BBK EDUCATIONAL ELECTRONICS CORP.,LTD.
LiWu INDUSTRIAL PARK,Wusha,Chang'an
Dong Guan Guang Dong 523860
CN

D4-A1-48 (hex) HUAWEI TECHNOLOGIES CO.,LTD
D4A148 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D0-65-CA (hex) HUAWEI TECHNOLOGIES CO.,LTD
D065CA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

8C-EB-C6 (hex) HUAWEI TECHNOLOGIES CO.,LTD
8CEBC6 (base 16) HUAWEI
TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B0-89-00 (hex) HUAWEI TECHNOLOGIES CO.,LTD
B08900 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E4-02-9B (hex) Intel Corporate
E4029B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

DC-1A-C5 (hex) vivo Mobile Communication Co., Ltd.
DC1AC5 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong 523860
CN

4C-0B-BE (hex) Microsoft

4C0BBE (base 16) Microsoft
1 Microsoft Way
Redmond Washington 98052
US

0C-25-76 (hex) LONGCHEER TELECOMMUNICATION LIMITED
0C2576 (base 16) LONGCHEER TELECOMMUNICATION LIMITED
Building 1,No.401,Caobao Rd
Shanghai Xuhui District 200233
CN

D8-D4-3C (hex) Sony Corporation
D8D43C (base 16) Sony
Corporation
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

48-6B-2C (hex) BBK EDUCATIONAL ELECTRONICS CORP.,LTD.
486B2C (base 16) BBK EDUCATIONAL ELECTRONICS CORP.,LTD.
LiWu INDUSTRIAL PARK,Wusha,Chang'an
Dong Guan Guang Dong 523860
CN

30-14-4A (hex) Wistron Neweb Corporation
30144A (base 16) Wistron Neweb Corporation
20 Park Avenue II, Hsin Science Park, Hsinchu 308, Taiwan
HsinChu Taiwan 308
TW

78-CB-68 (hex) DAEHAP HYPER-TECH
78CB68 (base 16) DAEHAP HYPER-TECH
302,Galmachiro,Woolim Lions Valley 5-cha #A-810,Jungwon-Gu
Seongnam, Gyeonggido 445-918
KR

F4-5E-AB (hex) Texas Instruments
F45EAB (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

34-ED-0B (hex) Shanghai XZ-COM.CO.,Ltd.
34ED0B (base 16) Shanghai XZ-COM.CO.,Ltd.
11th Floor,B Building ,No.100 Qinzhou Road ,Shanghai
shanghai shanghai 200235
CN

84-51-81 (hex) Samsung Electronics Co.,Ltd
845181
(base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

90-EF-68 (hex) Zyxel Communications Corporation
90EF68 (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

6C-95-22 (hex) Scalys
6C9522 (base 16) Scalys
Lansinkesweg 4
Hengelo 7553 AE
NL

C4-8F-07 (hex) Shenzhen Yihao Hulian Science and Technology Co., Ltd.
C48F07 (base 16) Shenzhen Yihao Hulian Science and Technology Co., Ltd.
Room A, Floor 6, Building 210, Tairan Industry and Trade Park, Che Kung Temple, Futian District, Shenzhen, Guangdong Province
ShenZhen Guangdong 518000
CN

DC-78-34 (hex) LOGICOM SA
DC7834 (base 16) LOGICOM SA
55 Rue de Lisbonne
PARIS 75008
FR

A8-BB-50 (hex) WiZ IoT Company Limited
A8BB50 (base 16) WiZ IoT Company Limited
148 Electric Road
Hong Kong 0000
HK

18-B1-69 (hex) Sonicwall
18B169
(base 16) Sonicwall
2001 Logic Drive
San Jose CA 95124-3452
US

44-44-50 (hex) OttoQ
444450 (base 16) OttoQ
20370 Town Center Lane, Suite 205

Cupertino CA 95014
US

50-F5-DA (hex) Amazon Technologies Inc.
50F5DA (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

10-12-12 (hex) Vivo International Corporation Pty Ltd
101212 (base 16) Vivo International Corporation Pty Ltd
9-13 Bibby Street,
NSW Chiswick 2046
AU

C8-5B-76 (hex) LCFC(HeFei) Electronics Technology co., ltd
C85B76 (base 16) LCFC(HeFei) Electronics Technology co., ltd
YunGu Road 3188-1
Hefei Anhui 230000
CN

9C-DD-1F (hex) Intelligent Steward Co.,Ltd
9CDD1F (base 16) Intelligent Steward Co.,Ltd
Room 508-598 XiTianGeZhuang Town Government Office Building,8# XiTong Road ,Economic Development District ,MiYun County ,BeiJing City
BeiJing City 101509
CN

3C-68-16 (hex) VXi Corporation
3C6816
(base 16) VXi Corporation
271 Locust Street
Dover NH 03820
US

E8-11-CA (hex) SHANDONG KAER ELECTRIC.CO.,LTD
E811CA (base 16) SHANDONG KAER ELECTRIC.CO.,LTD
No.58, Dalian Road, Weihai, 264209 Shandong Province, P.R.China
Weihai Shandong 264209
CN

B4-56-B9 (hex) Teraspek Technologies Co.,Ltd
B456B9 (base 16) Teraspek Technologies Co.,Ltd
14th floor,Block C,Beijing International Building, Zhongguancun South Street, Beijng, China, 100081
Beijing 100081
CN

54-F2-01 (hex) Samsung Electronics Co.,Ltd

54F201 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

70-28-8B (hex) Samsung Electronics Co.,Ltd
70288B (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

34-8A-7B (hex) Samsung Electronics Co.,Ltd
348A7B (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D0-57-7B
(hex) Intel Corporate
D0577B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C4-A3-66 (hex) zte corporation
C4A366 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

60-73-BC (hex) zte corporation
6073BC (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

7C-35-48 (hex) Transcend Information
7C3548 (base 16) Transcend Information
No.70, XingZhong Rd., NeiHu Dist.,
Taipei Taiwan 114
TW

78-00-9E (hex) Samsung Electronics Co.,Ltd
78009E (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

AC-C3-3A (hex) Samsung Electronics Co.,Ltd
ACC33A (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A8-FC-B7 (hex) Consolidated Resource Imaging
A8FCB7 (base
16) Consolidated Resource Imaging
2943 S Wilson CT NW
Grand Rapids MI 49534
US

C8-16-BD (hex) Qingdao Hisense Communications Co.,Ltd.
C816BD (base 16) Qingdao Hisense Communications Co.,Ltd.
Qianwangang Road 218
Qingdao Shandong 266510
CN

00-EB-D5 (hex) Cisco Systems, Inc
00EBD5 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

48-82-F2 (hex) Appel Elektronik GmbH
4882F2 (base 16) Appel Elektronik GmbH
Ludwig-Rinn-Str.10
Heuchelheim Hessen 35452
DE

A8-15-59 (hex) Breathometer, Inc.
A81559 (base 16) Breathometer, Inc.
863 Mitten Road, Suite 104
Burlingame CA 94010
US

F0-3E-BF (hex) GOGORO TAIWAN LIMITED
F03EBF (base 16) GOGORO TAIWAN LIMITED
No.33 Dinghu Rd.
GuiShan Dist. Taoyuan 333
TW

3C-92-DC (hex) Octopod Technology Co. Ltd.
3C92DC (base 16) Octopod Technology Co. Ltd.
822 Lane Zhennan Road
Shanghai 200331
CN

08-C0-21
(hex) HUAWEI TECHNOLOGIES CO.,LTD
08C021 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

60-08-10 (hex) HUAWEI TECHNOLOGIES CO.,LTD
600810 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

48-43-5A (hex) HUAWEI TECHNOLOGIES CO.,LTD
48435A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

78-FF-CA (hex) TECNO MOBILE LIMITED
78FFCA (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

04-65-65 (hex) Testop
046565 (base 16) Testop
808, Hanshin IT tower, 272 digital-ro
Guro-gu Seoul KS013
KR

00-17-93 (hex) Tigi Corporation
001793 (base
16) Tigi Corporation
2070 Chain Bridge road
Vienna Va 22182
US

00-03-58 (hex) Hanyang Digitech Co.Ltd
000358 (base 16) Hanyang Digitech Co.Ltd
13F, Acetwintower2, 212-30, Guro-Dong
Seoul 12304
KR

C4-CA-D9 (hex) Hangzhou H3C Technologies Co., Limited
C4CAD9 (base 16) Hangzhou H3C Technologies Co., Limited

310 Liuhe Road, Zhijiang Science Park
Hangzhou Zhejiang, 310053
CN

58-66-BA (hex) Hangzhou H3C Technologies Co., Limited
5866BA (base 16) Hangzhou H3C Technologies Co., Limited
310 Liuhe Road, Zhijiang Science Park
Hangzhou Zhejiang, 310053
CN

70-BA-EF (hex) Hangzhou H3C Technologies Co., Limited
70BAEF (base 16) Hangzhou H3C Technologies Co., Limited
466 Changhe Road, Binjiang District,
Hangzhou Zhejiang, P.R.China 310052
CN

58-6A-B1 (hex) Hangzhou H3C Technologies Co., Limited
586AB1 (base 16) Hangzhou H3C Technologies Co., Limited
466 Changhe Road, Binjiang
District,
Hangzhou Zhejiang, P.R.China 310052
CN

00-90-06 (hex) Hamamatsu Photonics K.K.
009006 (base 16) Hamamatsu Photonics K.K.
812 JOKO-CHO
HAMAMATSU 431-3196
JP

8C-8E-F2 (hex) Apple, Inc.
8C8EF2 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

90-B0-ED (hex) Apple, Inc.
90B0ED (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

04-D3-CF (hex) Apple, Inc.
04D3CF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C4-7C-8D (hex) IEEE Registration Authority

C47C8D (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

10-00-FD (hex) LaonPeople
1000FD (base 16) LaonPeople
402-3, Bundang Techno Park B, 148
Sungnam-si Gyeonggi-do 463-760
KR

44-9F-7F (hex) DataCore Software Corporation
449F7F (base 16) DataCore Software Corporation
6300 NW 5th Way
Fort Lauderdale FL 33309
US

84-83-19
(hex) Hangzhou Zero Zero Technology Co., Ltd.
848319 (base 16) Hangzhou Zero Zero Technology Co., Ltd.
Bldg 13&14, Dream Town, Hangzhou, Zhejiang
Hangzhou Zhejiang 310000
CN

7C-B0-C2 (hex) Intel Corporate
7CB0C2 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D8-94-03 (hex) Hewlett Packard Enterprise
D89403 (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

E0-0E-DA (hex) Cisco Systems, Inc
E00EDA (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

D0-A4-B1 (hex) Sonifex Ltd.
D0A4B1 (base 16) Sonifex Ltd.
61 Station Road
Irthlingborough Northamptonshire NN9 5QE
GB

00-24-F4 (hex) Kaminario, Ltd.
0024F4 (base 16) Kaminario, Ltd.
Yatam Industrial Park
Yokneam ISRAEL 20692
IL

00-1A-29 (hex) Johnson Outdoors Marine Electronics d/b/a Minnkota
001A29 (base 16) Johnson
Outdoors Marine Electronics d/b/a Minnkota
1220 Old Alpharetta Rd
Alpharetta GA 30041
US

00-90-AE (hex) ITALTEL S.p.A/RF-UP-I
0090AE (base 16) ITALTEL S.p.A/RF-UP-I
LOCALITA' BOSCHETTO
67100 L'AQUILA na
IT

00-17-7D (hex) IDT Technology Limited
00177D (base 16) IDT Technology Limited
Block C, 9/F, Kaiser Estate, Phase I
na na
HK

00-A0-45 (hex) PHOENIX CONTACT Electronics GmbH
00A045 (base 16) PHOENIX CONTACT Electronics GmbH
POSTFACH 1341
lower saxony D-31812
DE

40-00-E0 (hex) Derek(Shaoguan)Limited
4000E0 (base 16) Derek(Shaoguan)Limited
Gaojiling,Taiping Town, Shixing County
Shaoguan Guangdong 512500
CN

FC-BC-9C (hex) Vimar Spa
FCBC9C (base 16) Vimar Spa
Viale Vicenza 14
Marostica Vicenza 36063
IT

E0-C7-9D (hex) Texas Instruments
E0C79D (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

4C-0B-3A (hex) TCT
mobile ltd
4C0B3A (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

E4-2D-02 (hex) TCT mobile ltd
E42D02 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

0C-BD-51 (hex) TCT mobile ltd
0CBD51 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

74-5C-9F (hex) TCT mobile ltd
745C9F (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

8C-99-E6 (hex) TCT mobile ltd
8C99E6 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

F4-9E-EF (hex) Taicang T&W Electronics
F49EEF (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

C4-F0-81 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C4F081
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

80-13-82 (hex) HUAWEI TECHNOLOGIES CO.,LTD
801382 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park

Dongguan 523808
CN

94-FE-22 (hex) HUAWEI TECHNOLOGIES CO.,LTD
94FE22 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-1A-F4 (hex) Handreamnet
001AF4 (base 16) Handreamnet
#1209 MarioTower, 28
Seoul 152-741
KR

50-DD-4F (hex) Automation Components, Inc
50DD4F (base 16) Automation Components, Inc
2305 Pleasant View Rd
Middleton WI 53562
US

34-1F-E4 (hex) ARRIS Group, Inc.
341FE4 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

F4-62-D0 (hex) Not for Radio, LLC
F462D0 (base 16) Not for Radio,
LLC
425 Front St
Lititz PA 17543
US

84-00-2D (hex) PEGATRON CORPORATION
84002D (base 16) PEGATRON CORPORATION
No. 76, Ligong St., Beitou,
Taipei 112
TW

40-82-56 (hex) Continental Automotive GmbH
408256 (base 16) Continental Automotive GmbH
VD=-Strasse 1
Babenhausen Garmany 64832
DE

F0-40-7B (hex) Fiberhome Telecommunication Technologies Co.,LTD
F0407B (base 16) Fiberhome Telecommunication Technologies Co.,LTD

No.5 DongXin Road
Wuhan Hubei 430074
CN

94-88-5E (hex) Surfilter Network Technology Co., Ltd.
94885E (base 16) Surfilter Network Technology Co., Ltd.
6/f,2 Building,Kejizhong Rd2,Software Park,High-Tech District,Nanshan,Shenzhen,China
Shenzhen Guangdong 518000
CN

00-E0-D5 (hex) Emulex Corporation
00E0D5 (base 16) Emulex Corporation
3333 Susan Street
Costa Mesa CA 92626
US

00-10-35 (hex) Elitegroup Computer Systems Co.,Ltd.
001035 (base 16) Elitegroup
Computer Systems Co.,Ltd.
6F, NO. 88, SEC. 6
Shih Lin TAIPEI 00000
TW

00-0A-E6 (hex) Elitegroup Computer Systems Co.,Ltd.
000AE6 (base 16) Elitegroup Computer Systems Co.,Ltd.
No.22, Alley 38, Lane 91, Sec. 1, Nei Hu
Taipei 114
TW

74-27-EA (hex) Elitegroup Computer Systems Co.,Ltd.
7427EA (base 16) Elitegroup Computer Systems Co.,Ltd.
No. 239, Sec. 2, Ti Ding Blvd.,
Taipei 11493
US

C8-25-E1 (hex) Lemobile Information Technology (Beijing) Co., Ltd
C825E1 (base 16) Lemobile Information Technology (Beijing) Co., Ltd
WENHUAYING NORTH (No.1, LINKONG 2nd St), GAOLIYING, SHUNYI DISTRICT, BEIJING
Beijing Beijing 101300
CN

54-D9-E4 (hex) BRILLIANTTS CO., LTD
54D9E4 (base 16) BRILLIANTTS CO., LTD
Daewangpangyo-ro
Seongnam-si 13494
KR

94-50-89 (hex) SimonsVoss Technologies GmbH

945089 (base 16) SimonsVoss Technologies GmbH
Feringastr. 4
Unterfoehring Bavaria
85774
DE

00-90-FA (hex) Emulex Corporation
0090FA (base 16) Emulex Corporation
3333 Susan Street
Costa Mesa CA 92626
US

E0-B6-F5 (hex) IEEE Registration Authority
E0B6F5 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

00-23-78 (hex) GN Netcom A/S
002378 (base 16) GN Netcom A/S
Lautrupbjerg 7
Ballerup DK - 2750
DK

50-C9-71 (hex) GN Netcom A/S
50C971 (base 16) GN Netcom A/S
Lautrupbjerg 7
Ballerup DK - 2750
DK

E8-09-59 (hex) Guoguang Electric Co.,Ltd
E80959 (base 16) Guoguang Electric Co.,Ltd
No.8 Jinghu Road, Xinhua Street, Huadu Reg
Guangzhou Guangdong 510800
CN

00-40-9C (hex) TRANSWARE
00409C (base 16) TRANSWARE
21, RUE DU 8 MAI 1945

FR

04-2A-E2 (hex) Cisco Systems, Inc
042AE2 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

64-99-68 (hex) Elentec
649968 (base
16) Elentec
401-13 Chunggye-Ri
Dongtan-Myun Kyunggi 445-811
KR

98-6B-3D (hex) ARRIS Group, Inc.
986B3D (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

E0-07-1B (hex) Hewlett Packard Enterprise
E0071B (base 16) Hewlett Packard Enterprise
8000 Foothills Blvd.
Roseville CA 95747
US

84-FE-DC (hex) Borqs Beijing Ltd.
84FEDC (base 16) Borqs Beijing Ltd.
Tower A, Building B23, Universal Business Park, No.10 Jiuxianqiao Road
Chaoyang District Beijing 100015
CN

1C-3A-DE (hex) Samsung Electronics Co.,Ltd
1C3ADE (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

00-23-60 (hex) Lookit Technology Co., Ltd
002360 (base 16) Lookit Technology Co., Ltd
FL 8 Seashore Mansion
Shenzhen Guangdong 518100
CN

54-48-9C (hex) CDOUBLES ELECTRONICS CO. LTD.
54489C (base 16) CDOUBLES ELECTRONICS CO. LTD.
11F.-6,
No. 7,Sec. 3, New Taipei Blvd., Xinzhuang Dist.
New Taipei City 24250
TW

E4-A1-E6 (hex) Alcatel-Lucent Shanghai Bell Co., Ltd
E4A1E6 (base 16) Alcatel-Lucent Shanghai Bell Co., Ltd
No. 389, Ningqiao Road, Pudong Jinqiao
Shanghai 201206

CN

34-99-71 (hex) Quanta Storage Inc.
349971 (base 16) Quanta Storage Inc.
3F. No.188, Wenhua 2nd Rd
Taoyuan City Guishan District 33383
TW

98-DE-D0 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
98DED0 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

60-83-34 (hex) HUAWEI TECHNOLOGIES CO.,LTD
608334 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

E4-7E-66 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E47E66 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room
R6,Songshan Lake Technology Park
Dongguan 523808
CN

94-DB-DA (hex) HUAWEI TECHNOLOGIES CO.,LTD
94DBDA (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B0-1B-D2 (hex) Le Shi Zhi Xin Electronic Technology (Tianjin) Limited
B01BD2 (base 16) Le Shi Zhi Xin Electronic Technology (Tianjin) Limited
,Le Shi Building, No.105 Yaojiayuan Road,Chaoyang District,Beijing,China
beijing beijing 100025
CN

00-5B-A1 (hex) shanghai huayuan chuangxin software CO., LTD.
005BA1 (base 16) shanghai huayuan chuangxin software CO., LTD.
Room D13 , Floor 13,Lane 1006, Jinshajiang road,putuo District
Shanghai Shanghai 200333
CN

58-D6-7A (hex) TCPlink
58D67A (base 16) TCPlink
Daerungpost tower 1-cha 1720, 288 digital-ro,Guro-gu

seoul 08390
KR

5C-C7-D7 (hex) AZROAD TECHNOLOGY COMPANY LIMITED
5CC7D7 (base 16) AZROAD TECHNOLOGY COMPANY
LIMITED
Block B2, No.14 Jian'an rd. Shajing, Bao'an District,
Shenzhen 518104
CN

98-07-2D (hex) Texas Instruments
98072D (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

F0-C7-7F (hex) Texas Instruments
F0C77F (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

1C-AB-C0 (hex) Hitron Technologies. Inc
1CABC0 (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

D4-67-E7 (hex) Fiberhome Telecommunication Technologies Co.,LTD
D467E7 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan City Hubei Province 430074
CN

E4-2F-26 (hex) Fiberhome Telecommunication Technologies Co.,LTD
E42F26 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan City Hubei Province 430074
CN

04-C1-B9 (hex) Fiberhome Telecommunication
Technologies Co.,LTD
04C1B9 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan City Hubei Province 430074
CN

5C-F2-86 (hex) IEEE Registration Authority

5CF286 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

E8-FD-72 (hex) SHANGHAI LINGUO TECHNOLOGY CO., LTD.
E8FD72 (base 16) SHANGHAI LINGUO TECHNOLOGY CO., LTD.
No.2,277 Lane,Yongdeng Road,Putuo District,Shanghai,China
Shanghai Shanghai 200000
CN

98-BB-1E (hex) BYD Precision Manufacture Company Ltd.
98BB1E (base 16) BYD Precision Manufacture Company Ltd.
7/Floor, Building 5#, No3000 LongDong Avenue, Pudong District
Shanghai Shanghai 201203
CN

04-C1-03 (hex) Clover Network, Inc.
04C103 (base 16) Clover Network, Inc.
415 N Mathilda Ave
Sunnyvale CA 94085
US

28-0C-28 (hex) Unigen DataStorage Corporation
280C28 (base 16) Unigen DataStorage Corporation
11F.-6,
No.251, Fuxing 1st St., Zhubei City, Hsinchu County 302, Taiwan (R.O.C.)
Zhubei City 30271
TW

20-8B-37 (hex) Skyworth Digital Technology(Shenzhen) Co.,Ltd
208B37 (base 16) Skyworth Digital Technology(Shenzhen) Co.,Ltd
7F,Block A,Skyworth Building,
Shenzhen Guangdong 518057
CN

08-BE-77 (hex) Green Electronics
08BE77 (base 16) Green Electronics
47801 Fremont Blvd
Fremont CA 94538
US

AC-5F-3E (hex) SAMSUNG ELECTRO-MECHANICS(THAILAND)
AC5F3E (base 16) SAMSUNG ELECTRO-MECHANICS(THAILAND)
93Moo5T. Bangsamak SEMTHAI, WELLGROW INDUSTRIAL ESTATE
Bangpakong Chachoengsao 24180
TH

54-6D-52 (hex) TOPVIEW OPTRONICS CORP.
546D52 (base 16) TOPVIEW OPTRONICS CORP.
No.8, Wuquan Rd., New Taipei Industrial Park, Wugu District
New Taipei City 24886
TW

D0-17-C2 (hex) ASUSTek COMPUTER INC.
D017C2 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan
112
TW

50-9E-A7 (hex) Samsung Electronics Co.,Ltd
509EA7 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A8-81-95 (hex) Samsung Electronics Co.,Ltd
A88195 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

88-AD-D2 (hex) Samsung Electronics Co.,Ltd
88ADD2 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-CC-FC (hex) Cisco Systems, Inc
00CCFC (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

10-DA-43 (hex) NETGEAR
10DA43 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

B8-05-AB (hex) zte corporation
B805AB (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

78-96-82 (hex) zte corporation
789682 (base 16) zte corporation
12/F.,zte R&D building
,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

C4-BE-D4 (hex) Avaya Inc
C4BED4 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

A4-BF-01 (hex) Intel Corporate
A4BF01 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-19-C5 (hex) Sony Interactive Entertainment Inc.
0019C5 (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

00-13-15 (hex) Sony Interactive Entertainment Inc.
001315 (base 16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

9C-52-F8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
9C52F8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-60-DC (hex) NEC Magnus Communications,Ltd.
0060DC (base 16) NEC Magnus Communications,Ltd.
18 Nihon-odori,Naka-ku
Yokohama, Kanagawa
231-0021
JP

90-72-82 (hex) Sagemcom Broadband SAS
907282 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur

Rueil Malmaison Cedex hauts de seine 92848
FR

38-B8-EB (hex) IEEE Registration Authority
38B8EB (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

98-97-D1 (hex) MitraStar Technology Corp.
9897D1 (base 16) MitraStar Technology Corp.
No. 6, Innovation Road II,
Hsinchu 300
TW

B8-32-41 (hex) Wuhan Tianyu Information Industry Co., Ltd.
B83241 (base 16) Wuhan Tianyu Information Industry Co., Ltd.
HUST Industry Park, East-Lake Development Zone
Wuhan Hubei 430223
CN

00-1E-1E (hex) Honeywell Life Safety
001E1E (base 16) Honeywell Life Safety
12 Clintonville Road
Northford CT 0422
US

A0-C5-89 (hex) Intel Corporate
A0C589 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

1C-23-4F (hex) EDMI
Europe Ltd
1C234F (base 16) EDMI Europe Ltd
The Grainger Suite, Dobson House
Newcastle upon Tyne NE3 3PF
GB

A4-44-D1 (hex) Wingtech Group (HongKongLimited
A444D1 (base 16) Wingtech Group (HongKongLimited
FLAT/RM 1903 19/F PODIUM PLAZA 5HANOI ROAD TSIM SHA TSUI
Hong Kong Hong Kong 999077
HK

00-6C-FD (hex) Sichuan Changhong Electric Ltd.
006CFD (base 16) Sichuan Changhong Electric Ltd.

No.35,East MianXin Road,MianYang,Sichaun,China.
MianYang SiChuan PRC 621000
CN

54-5A-A6 (hex) Espressif Inc.
545AA6 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

FC-1A-11 (hex) vivo Mobile Communication Co., Ltd.
FC1A11 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

00-23-40 (hex) MiXTelematics
002340 (base 16) MiXTelematics
Blaauwklip Office Park 2
Stellenbosch
Western Cape 7600
ZA

B4-8B-19 (hex) Apple, Inc.
B48B19 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

38-FD-FE (hex) IEEE Registration Authority
38FDFE (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

2C-09-CB (hex) COBS AB
2C09CB (base 16) COBS AB
Box 9242
Goteborg 40095
SE

BC-EC-5D (hex) Apple, Inc.
BCEC5D (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

28-A0-2B (hex) Apple, Inc.

28A02B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

CC-6D-A0 (hex) Roku, Inc.
CC6DA0 (base 16) Roku, Inc.
12980 Saratoga Ave.
Saratoga CA 95070
US

00-16-E4 (hex) VANGUARD SECURITY ENGINEERING CORP.
0016E4 (base 16) VANGUARD SECURITY ENGINEERING CORP.
3, LANE 32, KSO CHING RD.
YANGMEI TAOYUAN 326
US

3C-89-70 (hex) Neosfar
3C8970 (base 16) Neosfar
101 W. Broadway,
Suite 300
San Diego CA 92101
US

78-CA-83 (hex) IEEE Registration Authority
78CA83 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

0C-11-67 (hex) Cisco Systems, Inc
0C1167 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

74-EA-E8 (hex) ARRIS Group, Inc.
74EAE8 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

A8-44-81 (hex) Nokia Corporation
A84481 (base 16) Nokia Corporation
Joensuunkatu 7
Salo NA 24101
FI

88-44-F6 (hex) Nokia Corporation
8844F6 (base 16) Nokia Corporation
Joensuunkatu 7
Salo NA 24101
FI

F4-4D-17 (hex) GOLDCARD HIGH-TECH CO.,LTD.
F44D17 (base 16) GOLDCARD HIGH-TECH CO.,LTD.
No.158, Jinqiao Stree,Economic&Technological Development Area,
Hangzhou Zhejiang 310018
CN

00-17-42 (hex) FUJITSU LIMITED
001742 (base 16) FUJITSU LIMITED
403, Kosugi-cho
1-chome, Nakahara-ku
Kawasaki Kanagawa 211-0063
JP

00-19-99 (hex) Fujitsu Technology Solutions GmbH
001999 (base 16) Fujitsu Technology Solutions GmbH
Buergermeister-Ulrich-Strasse 100
Augsburg 86199
DE

00-5A-39 (hex) SHENZHEN FAST TECHNOLOGIES CO.,LTD
005A39 (base 16) SHENZHEN FAST TECHNOLOGIES CO.,LTD
Room 202,Building No.5,Section 30,No.2 of Kefa Road,Nanshan District
Shenzhen Guangdong 518057
CN

A0-89-E4 (hex) Skyworth Digital Technology(Shenzhen) Co.,Ltd
A089E4 (base 16) Skyworth Digital Technology(Shenzhen) Co.,Ltd
7F,Block A,Skyworth Building,
Shenzhen Guangdong 518057
CN

5C-C6-D0 (hex) Skyworth Digital Technology(Shenzhen) Co.,Ltd
5CC6D0 (base 16) Skyworth Digital Technology(Shenzhen) Co.,Ltd
7F,Block A,Skyworth Building,
Shenzhen Guangdong 518057
CN

00-1A-9A (hex) Skyworth Digital Technology(Shenzhen) Co.,Ltd
001A9A (base 16) Skyworth Digital Technology(Shenzhen)
Co.,Ltd
7F,Block A,Skyworth Building,
Shenzhen Guangdong 518057

CN

00-21-00 (hex) Gemtek Technology Co., Ltd.
002100 (base 16) Gemtek Technology Co., Ltd.
No.1 Jen Ai Road, Hsinchu Industrial Park,
Hukou, Hsinchu 303
TW

00-1C-35 (hex) Nokia Danmark A/S
001C35 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-1C-9A (hex) Nokia Danmark A/S
001C9A (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-1C-D6 (hex) Nokia Danmark A/S
001CD6 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-1C-D4 (hex) Nokia Danmark A/S
001CD4 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-1D-98 (hex) Nokia Danmark A/S
001D98 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-1D-E9 (hex) Nokia Danmark A/S
001DE9 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen
V DK-1790
DK

00-1E-3A (hex) Nokia Danmark A/S
001E3A (base 16) Nokia Danmark A/S
Frederikskaj

Copenhagen V DK-1790
DK

00-1D-6E (hex) Nokia Danmark A/S
001D6E (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

C8-D1-0B (hex) Nokia Corporation
C8D10B (base 16) Nokia Corporation
Joensuunkatu 7
Salo 24101
FI

00-23-B4 (hex) Nokia Danmark A/S
0023B4 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-13-70 (hex) Nokia Danmark A/S
001370 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

9C-18-74 (hex) Nokia Danmark A/S
9C1874 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790V
DK

00-1B-AF (hex) Nokia Danmark A/S
001BAF (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-25-48 (hex) Nokia Danmark A/S
002548 (base 16) Nokia Danmark
A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-22-FC (hex) Nokia Danmark A/S
0022FC (base 16) Nokia Danmark A/S

Frederikskaj
Copenhagen V DK-1790
DK

00-22-FD (hex) Nokia Danmark A/S
0022FD (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-21-AA (hex) Nokia Danmark A/S
0021AA (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-26-E4 (hex) Canal +
0026E4 (base 16) Canal +
48 quai du point du jour
Boulogne-Billancourt 92659
FR

00-01-17 (hex) Canal +
000117 (base 16) Canal +
23 Rue LeBlanc
75906 Paris Cedex 15 12345
FR

E0-1D-3B (hex) Cambridge Industries(Group) Co.,Ltd.
E01D3B (base 16) Cambridge Industries(Group) Co.,Ltd.
22 Floor, Qilai Tower, #889 Yishan Road
Shanghai Shanghai 200233
CN

C8-10-73 (hex) CENTURY OPTICOMM CO.,LTD
C81073 (base 16) CENTURY OPTICOMM CO.,LTD
WEITUO COMMUNITY,HECHUAN
INDUSTRIAL PARK, HECHUAN DISTRICT,CHONGQING,CHINA
Chongqing 401121
CN

34-37-59 (hex) zte corporation
343759 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

FC-2F-40 (hex) Calxeda, Inc.

FC2F40 (base 16) Calxeda, Inc.
7000 North Mopac Expressway
Austin TX 78731
US

BC-62-0E (hex) HUAWEI TECHNOLOGIES CO.,LTD
BC620E (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

74-A5-28 (hex) HUAWEI TECHNOLOGIES CO.,LTD
74A528 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

00-1D-19 (hex) Arcadyan Technology Corporation
001D19 (base 16) Arcadyan Technology Corporation
4F., No. 9 , Park Avenue II,
Hsinchu 300
TW

00-30-FF (hex) DataFab Systems Inc.
0030FF (base 16) DataFab
Systems Inc.
ROOM #1910, 19F, NO. 333
TAIWAN TAIWAN R.O.C.
TW

00-0F-F6 (hex) DARFON LIGHTING CORP
000FF6 (base 16) DARFON LIGHTING CORP
31, Lane17, Zihciang N. Road
Taoyuan 333
TW

F8-8E-85 (hex) Comtrend Corporation
F88E85 (base 16) Comtrend Corporation
3F-1, 10 Lane 609, Chongxin Road, Section 5,
New Taipei City, Taiwan 24159
TW

02-CF-1C (hex) Communication Machinery Corporation
02CF1C (base 16) Communication Machinery Corporation
1226 ANACAPA
SANTA BARBARA CA 93101
US

00-90-F5 (hex) CLEVO CO.
0090F5 (base 16) CLEVO CO.
35, WU-GON 6TH ROAD
TAIPEI HSIEN 12345
TW

00-20-D4 (hex) Cabletron Systems, Inc.
0020D4 (base 16) Cabletron Systems, Inc.
35 INDUSTRIAL WAY
ROHESTER NH 03866-5005
US

00-E0-3A (hex) Cabletron Systems, Inc.
00E03A (base 16) Cabletron Systems, Inc.
35 INDUSTRIAL WAY - BLDG. #36
ROCHESTER NH 03867
US

70-C7-6F (hex) INNO
S
70C76F (base 16) INNO S
215beon-gil, 119
Guri-si Gyeonggi-do 471-060
KR

38-19-2F (hex) Nokia Corporation
38192F (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

B8-C6-8E (hex) Samsung Electronics Co.,Ltd
B8C68E (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

04-FE-31 (hex) Samsung Electronics Co.,Ltd
04FE31 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

4C-BC-A5 (hex) Samsung Electronics Co.,Ltd
4CBCA5 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

D8-31-CF (hex) Samsung Electronics Co.,Ltd
D831CF (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B0-D0-9C (hex) Samsung Electronics Co.,Ltd
B0D09C (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

50-C8-E5
(hex) Samsung Electronics Co.,Ltd
50C8E5 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

18-83-31 (hex) Samsung Electronics Co.,Ltd
188331 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

9C-65-B0 (hex) Samsung Electronics Co.,Ltd
9C65B0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

84-55-A5 (hex) Samsung Electronics Co.,Ltd
8455A5 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A8-7C-01 (hex) Samsung Electronics Co.,Ltd
A87C01 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

00-10-E7 (hex) Breezecom, Ltd.
0010E7 (base 16) Breezecom, Ltd.
PO Box 13139
Tel-Aviv 12345

IL

50-F5-20 (hex) Samsung Electronics Co.,Ltd
50F520 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi
Gyeongbuk 730-350
KR

64-B3-10 (hex) Samsung Electronics Co.,Ltd
64B310 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A4-EB-D3 (hex) Samsung Electronics Co.,Ltd
A4EBD3 (base 16) Samsung Electronics Co.,Ltd
#94-1,Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

5C-F6-DC (hex) Samsung Electronics Co.,Ltd
5CF6DC (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

94-92-BC (hex) SYNTECH(HK) TECHNOLOGY LIMITED
9492BC (base 16) SYNTECH(HK) TECHNOLOGY LIMITED
Unit No.1,12/F.,Perfect Industrial Building,31 Tai Yau Street, San Po Kong, Kowloon, Hong Kong 999077
Kowloon 999077
HK

00-12-BF (hex) Arcadyan Technology Corporation
0012BF (base 16) Arcadyan Technology Corporation
4F, No. 9, Park Avenue II
Hsinchu 300
TW

50-7E-5D (hex) Arcadyan Technology Corporation
507E5D (base 16) Arcadyan
Technology Corporation
4F, No. 9, Park Avenue II ,
Hsinchu 300
TW

7C-4F-B5 (hex) Arcadyan Technology Corporation
7C4FB5 (base 16) Arcadyan Technology Corporation

4F, No. 9, Park Avenue II ,
Hsinchu 300
TW

F4-0B-93 (hex) BlackBerry RTS
F40B93 (base 16) BlackBerry RTS
451 Phillip Street
Waterloo ON N2L 3X2
CA

1C-69-A5 (hex) BlackBerry RTS
1C69A5 (base 16) BlackBerry RTS
451 Phillip Street
Waterloo ON N2L 3X2
CA

94-EB-CD (hex) BlackBerry RTS
94EBCD (base 16) BlackBerry RTS
295 Phillip Street
Waterloo Ontario N2L3W8
CA

C0-3F-0E (hex) NETGEAR
C03F0E (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

00-26-F2 (hex) NETGEAR
0026F2 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

00-22-3F (hex) NETGEAR
00223F (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

00-0F-B5 (hex) NETGEAR
000FB5
(base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

00-09-5B (hex) NETGEAR

00095B (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

00-1A-4F (hex) AVM GmbH
001A4F (base 16) AVM GmbH
Alt-Moabit 95
Berlin 10559
DE

00-1C-4A (hex) AVM GmbH
001C4A (base 16) AVM GmbH
Alt-Moabit 95
Berlin 10559
DE

00-15-0C (hex) AVM GmbH
00150C (base 16) AVM GmbH
Alt-Moabit 95
Berlin 10559
DE

00-26-FF (hex) BlackBerry RTS
0026FF (base 16) BlackBerry RTS
440 Phillip Street
Waterloo Ontario N2L 5W9
CA

A4-E4-B8 (hex) BlackBerry RTS
A4E4B8 (base 16) BlackBerry RTS
295 Phillip Street
Waterloo Ontario N2L 3W8
CA

00-30-67 (hex) BIOSTAR Microtech Int'l Corp.
003067 (base 16) BIOSTAR Microtech Int'l Corp.
2FL. NO. 108-2 MIN CHUAN ROAD
HSIN TIEN CITY, TAIPEI HSIEN 12345
TW

00-25-F2 (hex) ARRIS Group,
Inc.
0025F2 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-25-F1 (hex) ARRIS Group, Inc.
0025F1 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-26-BA (hex) ARRIS Group, Inc.
0026BA (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-23-0B (hex) ARRIS Group, Inc.
00230B (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-23-75 (hex) ARRIS Group, Inc.
002375 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

80-37-73 (hex) NETGEAR
803773 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

A4-2B-8C (hex) NETGEAR
A42B8C (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

28-C6-8E (hex) NETGEAR
28C68E (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

04-A1-51 (hex) NETGEAR
04A151
(base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

74-E7-C6 (hex) ARRIS Group, Inc.
74E7C6 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-24-C1 (hex) ARRIS Group, Inc.
0024C1 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

F8-73-94 (hex) NETGEAR
F87394 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

20-4E-7F (hex) NETGEAR
204E7F (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

00-13-8F (hex) Asiarock Technology Limited
00138F (base 16) Asiarock Technology Limited
P.O. Box957, Offshore Incorporations Centre
Road Town Tortola 12345
VG

B4-52-7D (hex) Sony Corporation
B4527D (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

00-D9-D1 (hex) Sony Interactive Entertainment Inc.
00D9D1 (base
16) Sony Interactive Entertainment Inc.
1-7-1 Konan
Minato-ku Tokyo 108-0075
JP

B0-05-94 (hex) Liteon Technology Corporation
B00594 (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road,ChungHo
New Taipei City Taipei 23585

TW

00-1A-AD (hex) ARRIS Group, Inc.
001AAD (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

CC-7D-37 (hex) ARRIS Group, Inc.
CC7D37 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

A4-7A-A4 (hex) ARRIS Group, Inc.
A47AA4 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-17-00 (hex) ARRIS Group, Inc.
001700 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-16-B5 (hex) ARRIS Group, Inc.
0016B5 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-15-A8 (hex) ARRIS Group, Inc.
0015A8 (base 16) ARRIS Group,
Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-15-9A (hex) ARRIS Group, Inc.
00159A (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1E-DC (hex) Sony Corporation
001EDC (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa

Shinagawa-ku Tokyo 140-0002
JP

00-1D-28 (hex) Sony Corporation
001D28 (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

00-18-13 (hex) Sony Corporation
001813 (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

40-2B-A1 (hex) Sony Corporation
402BA1 (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

94-CC-B9 (hex) ARRIS Group, Inc.
94CCB9 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

3C-43-8E (hex) ARRIS Group, Inc.
3C438E (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San
Diego CA 92121
US

98-3B-16 (hex) AMPAK Technology, Inc.
983B16 (base 16) AMPAK Technology, Inc.
No.1,Jen Ai Road
Hsinchu 30352
TW

00-11-80 (hex) ARRIS Group, Inc.
001180 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-0B-06 (hex) ARRIS Group, Inc.
000B06 (base 16) ARRIS Group, Inc.

6450 Sequence Drive
San Diego CA 92121
US

00-D0-88 (hex) ARRIS Group, Inc.
00D088 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-12-8A (hex) ARRIS Group, Inc.
00128A (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-11-AE (hex) ARRIS Group, Inc.
0011AE (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

94-A1-A2 (hex) AMPAK Technology, Inc.
94A1A2 (base 16) AMPAK Technology, Inc.
No.1,Jen Ai Road
Hukou Hsinchu 30352
TW

00-01-4A (hex) Sony
Corporation
00014A (base 16) Sony Corporation
Gotenyama Tec, 5-1-2 Kitashinagawa
Tokyo 141-0001
JP

00-23-A3 (hex) ARRIS Group, Inc.
0023A3 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1A-DB (hex) ARRIS Group, Inc.
001ADB (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1F-7E (hex) ARRIS Group, Inc.

001F7E (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-1C-12 (hex) ARRIS Group, Inc.
001C12 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

84-00-D2 (hex) Sony Corporation
8400D2 (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

30-39-26 (hex) Sony Corporation
303926 (base 16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

00-EB-2D (hex) Sony Corporation
00EB2D (base
16) Sony Corporation
4-12-3 Higashi – Shinagawa
Shinagawa-ku Tokyo 140-0002
JP

00-14-04 (hex) ARRIS Group, Inc.
001404 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

34-C3-D2 (hex) FN-LINK TECHNOLOGY LIMITED
34C3D2 (base 16) FN-LINK TECHNOLOGY LIMITED
A Building,HuiXin industial park,No 31, YongHe road, Fuyong town, Bao'an District
SHENZHEN GUANGDONG 518100
CN

54-F6-C5 (hex) FUJIAN STAR-NET COMMUNICATION CO.,LTD
54F6C5 (base 16) FUJIAN STAR-NET COMMUNICATION CO.,LTD
19-22# Building, Star-net Science Plaza, Juyuanzhou,
FUZHOU FUJIAN 350002
CN

40-95-58 (hex) Aisino Corporation
409558 (base 16) Aisino Corporation
No.18A, Xingshikou Road,
Beijing 100195
CN

18-28-61 (hex) AirTies Wireless Networks
182861 (base 16) AirTies Wireless Networks
Gulbahar Mahallesi, Avni Diligil Sokak
ISTANBUL ISTANBUL 34394
TR

A8-1D-16 (hex) AzureWave Technology
Inc.
A81D16 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

00-10-73 (hex) TECHNOBOX, INC.
001073 (base 16) TECHNOBOX, INC.
140 Mount Holly Bypass
Lumberton NJ 08048-1114
US

00-15-AF (hex) AzureWave Technology Inc.
0015AF (base 16) AzureWave Technology Inc.
8F., No.94, Baozhong Rd., Xindian
Taipei 231
TW

74-F0-6D (hex) AzureWave Technology Inc.
74F06D (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd., Xindian
Taipei 231
TW

44-D8-32 (hex) AzureWave Technology Inc.
44D832 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd., Xindian
Taipei 231
TW

E0-B9-A5 (hex) AzureWave Technology Inc.
E0B9A5 (base 16) AzureWave Technology Inc.
8F., No. 94, Baoshong Rd.
Xindian City, Taipei County 231
TW

78-18-81 (hex) AzureWave Technology Inc.
781881 (base 16) AzureWave Technology Inc.
8F.,
No.94 Baozhong Rd.,
Xindian, Taipei 23144
TW

6C-71-D9 (hex) AzureWave Technology Inc.
6C71D9 (base 16) AzureWave Technology Inc.
9F.,No.92,Baozhong Rd
Xindian District New Taipei City 231
TW

D0-E7-82 (hex) AzureWave Technology Inc.
D0E782 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd
. New Taipei City Taiwan 231
TW

6C-AD-F8 (hex) AzureWave Technology Inc.
6CADF8 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd
. New Taipei City Taiwan 231
TW

EC-08-6B (hex) TP-LINK TECHNOLOGIES CO.,LTD.
EC086B (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

5C-33-8E (hex) Alpha Networks Inc.
5C338E (base 16) Alpha Networks Inc.
No.8 Li-shing Seventh Road,Science-based
Hsinchu 300
TW

D0-D4-12 (hex) ADB Broadband Italia
D0D412
(base 16) ADB Broadband Italia
VIALE SARCA 336
MILANO 20126
IT

00-26-B8 (hex) Actiontec Electronics, Inc
0026B8 (base 16) Actiontec Electronics, Inc
3301 Olcott St.

Santa Clara CA 95054
US

00-26-FC (hex) AcSiP Technology Corp.
0026FC (base 16) AcSiP Technology Corp.
3F., No.22, Dalin Rd.,
Taoyuan City, Taoyuan County 330
TW

68-9C-5E (hex) AcSiP Technology Corp.
689C5E (base 16) AcSiP Technology Corp.
3F., No.22, Dalin Rd.
Taoyuan Taoyuan County 33067
TW

28-E3-47 (hex) Liteon Technology Corporation
28E347 (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road,ChungHo,Taipei Hsien,Taiwan,
TaiPei TaiWan 23585
TW

44-6D-57 (hex) Liteon Technology Corporation
446D57 (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road,ChungHo,Taipei Hsien,Taiwan,
TaiPei TaiWan 23585
TW

9C-B7-0D (hex) Liteon Technology Corporation
9CB70D (base 16) Liteon
Technology Corporation
4F,90,Chien 1 Road,ChungHo,Taipei Hsien,Taiwan,
TaiPei TaiWan 23585
TW

68-A3-C4 (hex) Liteon Technology Corporation
68A3C4 (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road,ChungHo,Taipei Hsien,Taiwan,
TaiPei TaiWan 23585
TW

70-F1-A1 (hex) Liteon Technology Corporation
70F1A1 (base 16) Liteon Technology Corporation
4F,90,Chien 1 Road,ChungHo,Taipei Hsien,Taiwan,
TaiPei TaiWan 23585
TW

00-1C-A2 (hex) ADB Broadband Italia
001CA2 (base 16) ADB Broadband Italia

VIALE SARCA 222
MILANO 20126
IT

00-22-33 (hex) ADB Broadband Italia
002233 (base 16) ADB Broadband Italia
VIALE SARCA 222
MILANO 20126
IT

30-39-F2 (hex) ADB Broadband Italia
3039F2 (base 16) ADB Broadband Italia
VIALE SARCA 222
MILANO 20126
IT

00-17-C2 (hex) ADB Broadband Italia
0017C2 (base 16) ADB Broadband Italia
v.Sarca 222
Milano 20126
IT

B0-46-FC
(hex) MitraStar Technology Corp.
B046FC (base 16) MitraStar Technology Corp.
No. 6, Innovation Road II,
Hsinchu 300
TW

E0-41-36 (hex) MitraStar Technology Corp.
E04136 (base 16) MitraStar Technology Corp.
No. 6, Innovation Road II,
Hsinchu Taiwan 300
TW

9C-0E-4A (hex) Shenzhen Vastking Electronic Co.,Ltd.
9C0E4A (base 16) Shenzhen Vastking Electronic Co.,Ltd.
2/F Building 6,ZhengZhong Industrial Park,Qiaotou Community,Fuyong,Baoan,ShenZhen China
Shenzhen Guangdong 518103
CN

A8-58-40 (hex) Cambridge Industries(Group) Co.,Ltd.
A85840 (base 16) Cambridge Industries(Group) Co.,Ltd.
5/F,Building 8, 2388 ChenHang Road, MinHang District
shanghai 201114
CN

A0-D3-7A (hex) Intel Corporate

A0D37A (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

88-96-F2 (hex) Valeo Schalter und Sensoren GmbH
8896F2 (base 16) Valeo Schalter und Sensoren GmbH
Laiernstrasse
12
Bietigheim-Bissingen Germany 74321
DE

14-1A-A3 (hex) Motorola Mobility LLC, a Lenovo Company
141AA3 (base 16) Motorola Mobility LLC, a Lenovo Company
222 Merchandise Mart Plaza, Suite 1800
Chicago IL 60654
US

34-07-FB (hex) Ericsson AB
3407FB (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

A4-A1-C2 (hex) Ericsson AB
A4A1C2 (base 16) Ericsson AB
Torshamnsgatan 36
Stockholm SE-164 80
SE

E0-97-96 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E09796 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
Shenzhen Guangdong 518129
CN

20-93-4D (hex) FUJIAN STAR-NET COMMUNICATION CO.,LTD
20934D (base 16) FUJIAN STAR-NET COMMUNICATION CO.,LTD
19-22# Building,,Star-net Science Plaza
Fuzhou Fujian 350002
CN

00-90-27 (hex) Intel Corporation
009027 (base 16) Intel Corporation
HF1-06
HILLSBORO OR
97124
US

00-A0-C9 (hex) Intel Corporation
00A0C9 (base 16) Intel Corporation
5200 NE ELAM YOUNG PARKWAY
HILLSBORO OR 97124
US

00-0D-72 (hex) 2Wire Inc
000D72 (base 16) 2Wire Inc
1704 Automation Parkway
San Jose CA 95131
US

00-12-88 (hex) 2Wire Inc
001288 (base 16) 2Wire Inc
1704 Automation Parkway
San Jose CA 94538
US

8C-A9-82 (hex) Intel Corporate
8CA982 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

BC-77-37 (hex) Intel Corporate
BC7737 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

D8-FC-93 (hex) Intel Corporate
D8FC93 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

B8-03-05 (hex) Intel Corporate
B80305 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

24-77-03 (hex) Intel Corporate
247703 (base 16) Intel Corporate
Lot
8, Jalan Hi-Tech 2/3
Kulim Kedah 09000

MY

74-E5-0B (hex) Intel Corporate
74E50B (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C4-85-08 (hex) Intel Corporate
C48508 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

68-05-CA (hex) Intel Corporate
6805CA (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

14-30-C6 (hex) Motorola Mobility LLC, a Lenovo Company
1430C6 (base 16) Motorola Mobility LLC, a Lenovo Company
600 North US Highway 45
Libertyville IL 60048
US

00-57-D2 (hex) Cisco Systems, Inc
0057D2 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

3C-67-16 (hex) Lily Robotics
3C6716 (base 16) Lily Robotics
75 Boardman Pl
San Francisco CA 94103
US

2C-22-8B (hex) CTR SRL
2C228B (base 16) CTR SRL
Via Lario 33
Cantù Cantù (CO)
22063
IT

0C-6F-9C (hex) Shaw Communications Inc.
0C6F9C (base 16) Shaw Communications Inc.
Suite 900, 630 3rd Avenue S.W.

CALGARY ALBERTA T2P 4L4
CA

00-D0-BD (hex) Lattice Semiconductor Corp. (LPA)
00D0BD (base 16) Lattice Semiconductor Corp. (LPA)
2115 O’Nel Drive
San Jose CA 95131
US

00-1F-3A (hex) Hon Hai Precision Ind. Co.,Ltd.
001F3A (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

64-7B-D4 (hex) Texas Instruments
647BD4 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

D8-95-2F (hex) Texas Instruments
D8952F (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

88-07-4B (hex) LG Electronics (Mobile Communications)
88074B (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

F4-EB-38
(hex) Sagemcom Broadband SAS
F4EB38 (base 16) Sagemcom Broadband SAS
15 Avenue Ambroise Croizat
DOMERAT Allier 03410
FR

00-1B-BF (hex) Sagemcom Broadband SAS
001BBF (base 16) Sagemcom Broadband SAS
14 Rue Paul Dautier
VÃƒÂ©lizy 78457
FR

00-25-69 (hex) Sagemcom Broadband SAS
002569 (base 16) Sagemcom Broadband SAS

Le Ponnant de Paris
CEDEX Paris 75512
FR

5C-F8-21 (hex) Texas Instruments
5CF821 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

14-1F-BA (hex) IEEE Registration Authority
141FBA (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

80-7B-85 (hex) IEEE Registration Authority
807B85 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

CC-1B-E0 (hex) IEEE Registration Authority
CC1BE0 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

10-F6-81
(hex) vivo Mobile Communication Co., Ltd.
10F681 (base 16) vivo Mobile Communication Co., Ltd.
#283,BBK Road
Wusha,Chang'An DongGuan City,Guangdong, 523860
CN

00-22-75 (hex) Belkin International Inc.
002275 (base 16) Belkin International Inc.
12045 E. Waterfront Drive
Playa Vista CA 90094
US

00-78-9E (hex) Sagemcom Broadband SAS
00789E (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
Rueil Malmaison Cedex Hauts de Seine 92848
FR

E8-BE-81 (hex) Sagemcom Broadband SAS

E8BE81 (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
Rueil Malmaison Cedex Hauts de Seine 92848
FR

68-15-90 (hex) Sagemcom Broadband SAS
681590 (base 16) Sagemcom Broadband SAS
250 ROUTE DE L'EMPEREUR
RUEIL MALMAISON CEDEX Choisissez l'état / la province 92848
FR

00-21-7C (hex) 2Wire Inc
00217C (base 16) 2Wire Inc
1764 Automation Parkway
San Jose CA 95131
US

00-1F-B3
(hex) 2Wire Inc
001FB3 (base 16) 2Wire Inc
1764 Automation Parkway
San Jose CA 95131
US

28-16-2E (hex) 2Wire Inc
28162E (base 16) 2Wire Inc
1764 Automation Parkway
San Jose 95131
US

F8-18-97 (hex) 2Wire Inc
F81897 (base 16) 2Wire Inc
1764 Automation Parkway
San Jose 95131
US

94-C1-50 (hex) 2Wire Inc
94C150 (base 16) 2Wire Inc
1764 Automation Parkway
San Jose CA 95131
US

2C-E4-12 (hex) Sagemcom Broadband SAS
2CE412 (base 16) Sagemcom Broadband SAS
250 route de l'Empereur
RUEIL MALMAISON CEDEX Hauts de Seine 92848
FR

F4-0E-11 (hex) IEEE Registration Authority
F40E11 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

24-05-F5 (hex) Integrated Device Technology (Malaysia) Sdn. Bhd.
2405F5 (base 16) Integrated Device Technology (Malaysia) Sdn. Bhd.
Phase 3, Bayan Lepas FIZ
Bayan Lepas Penang 11900
MY

78-E3-B5
(hex) Hewlett Packard
78E3B5 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

78-AC-C0 (hex) Hewlett Packard
78ACC0 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

68-B5-99 (hex) Hewlett Packard
68B599 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

1C-C1-DE (hex) Hewlett Packard
1CC1DE (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

3C-35-56 (hex) Cognitec Systems GmbH
3C3556 (base 16) Cognitec Systems GmbH
Großenhainer Str. 101
Dresden Saxony 01127
DE

3C-90-66 (hex) SmartRG, Inc.
3C9066 (base 16) SmartRG, Inc.
501 SE Columbia Shores Blvd
Vancouver WA 98661
US

44-C1-5C (hex) Texas Instruments
44C15C (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

C8-A0-30 (hex) Texas Instruments
C8A030 (base 16) Texas Instruments
12500
TI Boulevard, MS 8723
Dallas TX 75243
US

78-C5-E5 (hex) Texas Instruments
78C5E5 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

0C-FD-37 (hex) SUSE Linux GmbH
0CFD37 (base 16) SUSE Linux GmbH
Maxfeldstraße 5
Nürnberg Bavaria 90409
DE

00-0D-88 (hex) D-Link Corporation
000D88 (base 16) D-Link Corporation
No.8, Li-Hsing 7 Road, Science-Based Ind
Hsinchu 30077
TW

00-11-95 (hex) D-Link Corporation
001195 (base 16) D-Link Corporation
2F No. 233-2, Pao-Chiao Road
Taipei Taiwan 0000
TW

00-13-46 (hex) D-Link Corporation
001346 (base 16) D-Link Corporation
2F, No.233-2, Pao-Chiao Road
Hsin-Tien, Taipei 231
TW

1C-BD-B9 (hex) D-Link International
1CBDB9 (base 16) D-Link International
1 INTERNATIONAL BUSINESS PARK,
SINGAPORE 609917

SG

B8-A3-86 (hex) D-Link International
B8A386 (base 16) D-Link
International
1 International Business Park, #03-12, The Synergy
SINGAPORE 609917
SG

1C-7E-E5 (hex) D-Link International
1C7EE5 (base 16) D-Link International
1 International Business Park, #03-12, The Synergy
SINGAPORE 609917
SG

3C-CF-5B (hex) ICOMM HK LIMITED
3CCF5B (base 16) ICOMM HK LIMITED
SUITES 2302-6, 23/F GREAT EAGLE CTR 23 HARBOUR RD
WANCHAI NA
HK

00-17-E4 (hex) Texas Instruments
0017E4 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

04-E4-51 (hex) Texas Instruments
04E451 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

50-56-63 (hex) Texas Instruments
505663 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

88-33-14 (hex) Texas Instruments
883314 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

B8-FF-FE (hex) Texas
Instruments
B8FFFE (base 16) Texas Instruments

12500 TI Boulevard, MS 8723
Dallas TX 75243
US

00-22-A5 (hex) Texas Instruments
0022A5 (base 16) Texas Instruments
12500 TI Boulevard, MS 8723
Dallas TX 75243
US

94-AB-DE (hex) OMX Technology - FZE
94ABDE (base 16) OMX Technology - FZE
Dubai Silicon Oasis - THUB - 1-D-OFF-124
Dubai 65673
AE

9C-DF-B1 (hex) Shenzhen Crave Communication Co., LTD
9CDFB1 (base 16) Shenzhen Crave Communication Co., LTD
F3,8Building,DongFangMing IndustryZone,No.83 DabaoRD.,33 District BaoAn
Shenzhen Guangdong 518000
CN

60-69-44 (hex) Apple, Inc.
606944 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E0-43-DB (hex) Shenzhen ViewAt Technology Co.,Ltd.
E043DB (base 16) Shenzhen ViewAt Technology Co.,Ltd.
9A,Microprofit,6th Gaoxin South Road, High-Tech Industrial Park, Nanshan, Shenzhen, CHINA.
shenzhen guangdong 518057
CN

F4-03-04
(hex) Google, Inc.
F40304 (base 16) Google, Inc.
1600 Amphitheatre Pkwy
Mt. View CA 94043
US

54-60-09 (hex) Google, Inc.
546009 (base 16) Google, Inc.
1600 Amphitheatre Parkway
Mountain View CA 94043
US

A4-77-33 (hex) Google, Inc.

A47733 (base 16) Google, Inc.
1600 Ampitheatre Parkway
Mountain View 94043
US

80-7A-BF (hex) HTC Corporation
807ABF (base 16) HTC Corporation
No. 23, Xinghua Rd., Taoyuan City
Taoyuan County Taiwan 330
TW

34-BA-75 (hex) Everest Networks, Inc
34BA75 (base 16) Everest Networks, Inc
2933 Bunker Hill Ln., Suite 100
Santa Clara CA 95054
US

7C-18-CD (hex) E-TRON Co.,Ltd.
7C18CD (base 16) E-TRON Co.,Ltd.
66-11, Nonhyeon 2-dong, Gangnam-gu
Seoul 06049
KR

00-14-2F (hex) Savvius
00142F (base 16) Savvius
1340 Treat Boulevard, Suite 500
Walnut Creek CA 94597
US

28-BC-18 (hex) SourcingOverseas
Co. Ltd
28BC18 (base 16) SourcingOverseas Co. Ltd
2F., No.616, Sec.5, Zhongshan N. Rd., Shilin Dist.,
Taipei City 111
TW

00-73-8D (hex) Shenzhen TINNO Mobile Technology Corp.
00738D (base 16) Shenzhen TINNO Mobile Technology Corp.
Building, No.33, Xiandong Rd, Xili
Nanshan District, Shenzhen PRC 518053
CN

00-E0-FC (hex) HUAWEI TECHNOLOGIES CO.,LTD
00E0FC (base 16) HUAWEI TECHNOLOGIES CO.,LTD
KEFA ROAD, SCIENCE-BASED INDUSTRIAL PARK
SHENZHEN 518057 12345
CN

64-16-F0 (hex) HUAWEI TECHNOLOGIES CO.,LTD
6416F0 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 2, Zone B,Huawei Industrial Park,Bantian, Longgang District
Shenzhen Guangdong 518129
CN

AC-CF-85 (hex) HUAWEI TECHNOLOGIES CO.,LTD
ACCF85 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan Guangdong 523808
CN

38-71-DE (hex) Apple, Inc.
3871DE (base 16) Apple, Inc.
1
Infinite Loop
Cupertino CA 95014
US

70-81-EB (hex) Apple, Inc.
7081EB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

78-F8-82 (hex) LG Electronics (Mobile Communications)
78F882 (base 16) LG Electronics (Mobile Communications)
60-39, Gasan-dong, Geumcheon-gu
Seoul 153-801
KR

C0-2C-7A (hex) Shenzhen Horn Audio Co.,Ltd.
C02C7A (base 16) Shenzhen Horn Audio Co.,Ltd.
Block17,Tongfuyu lnd.Zone,Dalang,Baoan
Shenzhen Guang Dong 518109
CN

1C-CB-99 (hex) TCT mobile ltd
1CCB99 (base 16) TCT mobile ltd
No.86 hechang 7th road, zhongkai, Hi-Tech District
Hui Zhou Guang Dong 516006
CN

A4-2B-B0 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
A42BB0 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

18-8B-45 (hex) Cisco Systems, Inc
188B45
(base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F4-CA-24 (hex) FreeBit Co., Ltd.
F4CA24 (base 16) FreeBit Co., Ltd.
E.Space Tower 3-6 Maruyama-Cho
Shibuya-ku Tokyo 150-0044
JP

B8-B8-1E (hex) Intel Corporate
B8B81E (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-1D-D6 (hex) ARRIS Group, Inc.
001DD6 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

90-3E-AB (hex) ARRIS Group, Inc.
903EAB (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

30-60-23 (hex) ARRIS Group, Inc.
306023 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

14-AB-F0 (hex) ARRIS Group, Inc.
14ABF0 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

90-1A-CA (hex) ARRIS Group, Inc.
901ACA (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San

Diego CA 92121
US

C8-3F-B4 (hex) ARRIS Group, Inc.
C83FB4 (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

E0-B7-0A (hex) ARRIS Group, Inc.
E0B70A (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-D0-B7 (hex) Intel Corporation
00D0B7 (base 16) Intel Corporation
5200 NE ELAM YOUNG PARKWAY
HILLSBORO OR 97124
US

00-1D-CE (hex) ARRIS Group, Inc.
001DCE (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-0E-35 (hex) Intel Corporation
000E35 (base 16) Intel Corporation
2111 NE 25th Ave
Hillsboro OR 97123
US

00-07-E9 (hex) Intel Corporation
0007E9 (base 16) Intel Corporation
2111 NE 25th Avenue
Hillsboro OR 97124
US

00-13-E8 (hex) Intel Corporate
0013E8 (base 16) Intel Corporate
Lot 8, Jalan Hi-tech 2/3
Kulim Kedah 09000
MY

00-13-CE (hex) Intel Corporate
0013CE

(base 16) Intel Corporate
Lot 8, Jalan Hi-tech 2/3
Kulim Kedah 09000
MY

B4-6D-83 (hex) Intel Corporate
B46D83 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

C8-34-8E (hex) Intel Corporate
C8348E (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

4C-34-88 (hex) Intel Corporate
4C3488 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

10-02-B5 (hex) Intel Corporate
1002B5 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

00-40-26 (hex) BUFFALO.INC
004026 (base 16) BUFFALO.INC
AKAMONDORI Bldg., 30-20,Ohsu 3-chome
Naka-ku,Nagoya Aichi Pref. 460-8315
JP

4C-E6-76 (hex) BUFFALO.INC
4CE676 (base 16) BUFFALO.INC
AKAMONDORI Bldg., 30-20,Ohsu 3-chome
Naka-ku,Nagoya Aichi Pref. 460-8315
JP

C0-05-C2 (hex) ARRIS Group, Inc.
C005C2 (base
16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

00-30-C1 (hex) Hewlett Packard
0030C1 (base 16) Hewlett Packard
11000 WOLFE ROAD
CUPERTINO CA 95014
US

00-80-A0 (hex) Hewlett Packard
0080A0 (base 16) Hewlett Packard
ALAMEDA RIO NEGRO,
houston tx 77070
BR

D4-85-64 (hex) Hewlett Packard
D48564 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

24-BE-05 (hex) Hewlett Packard
24BE05 (base 16) Hewlett Packard
11445 Compaq Center Drive W
Houston 77070
US

FC-3F-DB (hex) Hewlett Packard
FC3FDB (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston TX 77070
US

00-09-2D (hex) HTC Corporation
00092D (base 16) HTC Corporation
No.23 Xinghua Road,
Taoyuan County 330
TW

7C-61-93 (hex) HTC Corporation
7C6193 (base 16) HTC Corporation
No. 23, Xinghua Rd.,
Taoyuan County 330
TW

90-E7-C4
(hex) HTC Corporation
90E7C4 (base 16) HTC Corporation
No. 23, Xinghua Rd.
Taoyuan County Taiwan 330
TW

90-CD-B6 (hex) Hon Hai Precision Ind. Co.,Ltd.
90CDB6 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

40-49-0F (hex) Hon Hai Precision Ind. Co.,Ltd.
40490F (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

00-26-5C (hex) Hon Hai Precision Ind. Co.,Ltd.
00265C (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

00-22-69 (hex) Hon Hai Precision Ind. Co.,Ltd.
002269 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

D8-79-88 (hex) Hon Hai Precision Ind. Co.,Ltd.
D87988 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1,
East Zone 1st Road
Chongqing Chongqing 401332
CN

74-A7-8E (hex) zte corporation
74A78E (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

30-8D-99 (hex) Hewlett Packard
308D99 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

58-20-B1 (hex) Hewlett Packard
5820B1 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070

US

94-57-A5 (hex) Hewlett Packard
9457A5 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

00-0E-B3 (hex) Hewlett Packard
000EB3 (base 16) Hewlett Packard
2580 55th Street
Boulder CO 80301
US

08-00-09 (hex) Hewlett Packard
080009 (base 16) Hewlett Packard
ENTERPRISE SYSTEMS TECH.CENTER
CUPERTINO CA 95014
US

38-EA-A7 (hex) Hewlett Packard
38EAA7 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston
77070
US

AC-16-2D (hex) Hewlett Packard
AC162D (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

80-C1-6E (hex) Hewlett Packard
80C16E (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

B4-B5-2F (hex) Hewlett Packard
B4B52F (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

D0-7E-28 (hex) Hewlett Packard
D07E28 (base 16) Hewlett Packard
11445 Compaq Center Drive

Houston 77070
US

D0-BF-9C (hex) Hewlett Packard
D0BF9C (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

BC-EA-FA (hex) Hewlett Packard
BCEAFA (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

74-46-A0 (hex) Hewlett Packard
7446A0 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

2C-44-FD (hex) Hewlett Packard
2C44FD (base 16) Hewlett
Packard
11445 Compaq Center Drive
Houston 77070
US

44-31-92 (hex) Hewlett Packard
443192 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

A0-D3-C1 (hex) Hewlett Packard
A0D3C1 (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

2C-76-8A (hex) Hewlett Packard
2C768A (base 16) Hewlett Packard
11445 Compaq Center Drive
Houston 77070
US

00-0B-CD (hex) Hewlett Packard
000BCD (base 16) Hewlett Packard

20555 State Highway 249
Houston TX 77070
US

00-0F-20 (hex) Hewlett Packard
000F20 (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-11-0A (hex) Hewlett Packard
00110A (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-17-08 (hex) Hewlett Packard
001708 (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

00-17-A4
(hex) Hewlett Packard
0017A4 (base 16) Hewlett Packard
20555 State Highway 249
Houston TX 77070
US

88-C2-55 (hex) Texas Instruments
88C255 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

CC-78-AB (hex) Texas Instruments
CC78AB (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

1C-78-39 (hex) Shenzhen Tencent Computer System Co., Ltd.
1C7839 (base 16) Shenzhen Tencent Computer System Co., Ltd.
36/F, Tencent Building, Kejizhongyi Avenue, Hi-Tech Park
Shenzhen Guangdong 518057
CN

04-53-D5 (hex) Sysorex Global Holdings

0453D5 (base 16) Sysorex Global Holdings
Suite 195 2479 E. Bayshore Road
Palo Alto CA 94303
US

EC-52-DC (hex) WORLD MEDIA AND TECHNOLOGY Corp.
EC52DC (base 16) WORLD MEDIA AND TECHNOLOGY Corp.
600 Brickell World Plaza, suite 1775
Miami 33132
US

94-B2-CC (hex) PIONEER CORPORATION
94B2CC (base 16) PIONEER CORPORATION
1-1
Shin-ogura
Kawasaki-shi Kanagawa Prefecture 2120031
JP

04-52-F3 (hex) Apple, Inc.
0452F3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-0E-6D (hex) Murata Manufacturing Co., Ltd.
000E6D (base 16) Murata Manufacturing Co., Ltd.
2288, Oaza-Ohshinohara, Yasu-cho,
Yasu-gun Shiga 520-2393
JP

90-21-06 (hex) SKY UK LIMITED
902106 (base 16) SKY UK LIMITED
130 Kings Road
Brentwood Essex 08854
GB

88-94-71 (hex) Brocade Communications Systems LLC
889471 (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

8C-7C-FF (hex) Brocade Communications Systems LLC
8C7CFF (base 16) Brocade Communications Systems LLC
1320 Ridder Park Dr
San Jose CA 95131
US

F4-83-CD (hex) TP-LINK TECHNOLOGIES CO.,LTD.
F483CD (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4)
Shennan Rd,
Nanshan Shenzhen,Guangdong Province 518057
CN

FC-D7-33 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
FCD733 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4)
Shennan Rd, Nanshan Shenzhen,Guangdong Province 518057
CN

5C-89-9A (hex) TP-LINK TECHNOLOGIES CO.,LTD.
5C899A (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4)
Shennan Rd, Nanshan Shenzhen,Guangdong Province 518057
CN

A8-1B-5A (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
A81B5A (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,WUSHA,CHANG'AN,DONGGUAN,GUANGDONG,CHINA
DONGGUAN GUANGDONG 523860
CN

2C-5B-B8 (hex) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
2C5BB8 (base 16) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP.,LTD
NO.18 HAIBIN ROAD,WUSHA,CHANG'AN,DONGGUAN,GUANGDONG,CHINA
DONGGUAN GUANGDONG 523860
CN

08-EB-74 (hex) HUMAX
Co., Ltd.
08EB74 (base 16) HUMAX Co., Ltd.
HUMAX Village, 11-4, Sunae-dong, Bundang-gu
Seongnam-si Gyeonggi-do 463-825
KR

28-32-C5 (hex) HUMAX Co., Ltd.
2832C5 (base 16) HUMAX Co., Ltd.
HUMAX Village,216,Hwangsaeul-ro,Bundang-gu
Seongnam-si Gyeonggi-do 463-875
KR

00-21-27 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
002127 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
South Building, No.5 Keyuan Road, Central Zone,
Shenzhen Guangdong 518000

CN

5C-63-BF (hex) TP-LINK TECHNOLOGIES CO.,LTD.
5C63BF (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
1-6F, Building 2, Pingshandayuan Industrial, South Zone,
Shenzhen Guangdong 518000
CN

E0-05-C5 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
E005C5 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 7, Second Part, Honghualing Industrial Zone
Shenzhen Guangdong 518000
CN

38-83-45 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
388345 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building
24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park,Shennan Rd, Nanshan,
Shenzhen, Guangdong Province 518057
CN

EC-88-8F (hex) TP-LINK TECHNOLOGIES CO.,LTD.
EC888F (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park
Shenzhen Guangdong 518057
CN

64-66-B3 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
6466B3 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park
Shenzhen Guangdong 518057
CN

F0-F3-36 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
F0F336 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4)
Shennan Rd, Nanshan Shenzhen,Guangdong Province 518057
CN

BC-46-99 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
BC4699 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24 (floors 1,3,4,5) and 28 (floors1-4)
Shennan
Rd, Nanshan Shenzhen,Guangdong Province 518057
CN

20-02-AF (hex) Murata Manufacturing Co., Ltd.
2002AF (base 16) Murata Manufacturing Co., Ltd.

1-10-1 Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

00-21-E8 (hex) Murata Manufacturing Co., Ltd.
0021E8 (base 16) Murata Manufacturing Co., Ltd.
2288, Oaza-Ohshinohara, Yasu-cho,
Yasu-gun Shiga 520-2393
JP

5C-4C-A9 (hex) HUAWEI TECHNOLOGIES CO.,LTD
5C4CA9 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District,
Shenzhen Guangdong 518108
CN

F4-C7-14 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F4C714 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District,
Shenzhen Guangdong 518108
CN

28-6E-D4 (hex) HUAWEI TECHNOLOGIES CO.,LTD
286ED4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
HUAWEI Industrial Base
Bantian,Longgang
Shenzhen guangdong 518129
CN

00-1E-10 (hex) HUAWEI TECHNOLOGIES CO.,LTD
001E10 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
HUAWEI INDUSTRIAL PK BANTIAN, LONGGANG DIST SHENZHEN
SHENZHEN GUANGDONG 518077
CN

D4-78-56 (hex) Avaya Inc
D47856 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

14-2D-27 (hex) Hon Hai Precision Ind. Co.,Ltd.
142D27 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

88-E3-AB (hex) HUAWEI TECHNOLOGIES CO.,LTD

88E3AB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

C4-05-28 (hex) HUAWEI TECHNOLOGIES CO.,LTD
C40528 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

3C-DF-BD (hex) HUAWEI TECHNOLOGIES CO.,LTD
3CDFBD (base 16) HUAWEI
TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

50-9F-27 (hex) HUAWEI TECHNOLOGIES CO.,LTD
509F27 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

80-71-7A (hex) HUAWEI TECHNOLOGIES CO.,LTD
80717A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

98-F5-37 (hex) zte corporation
98F537 (base 16) zte corporation
12/F.,zte R&D building,kejinan Road,
shenzhen guangdong 518057
CN

00-1F-E2 (hex) Hon Hai Precision Ind. Co.,Ltd.
001FE2 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

00-16-CF (hex) Hon Hai Precision Ind. Co.,Ltd.
0016CF (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing
Chongqing 401332
CN

D0-27-88 (hex) Hon Hai Precision Ind. Co.,Ltd.
D02788 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

90-4C-E5 (hex) Hon Hai Precision Ind. Co.,Ltd.
904CE5 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

8C-34-FD (hex) HUAWEI TECHNOLOGIES CO.,LTD
8C34FD (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

58-7F-66 (hex) HUAWEI TECHNOLOGIES CO.,LTD
587F66 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

64-A6-51 (hex) HUAWEI TECHNOLOGIES CO.,LTD
64A651 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

28-3C-E4 (hex) HUAWEI
TECHNOLOGIES CO.,LTD
283CE4 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate,Shiyan Baoan District
Shenzhen Guangdong 518057
CN

08-63-61 (hex) HUAWEI TECHNOLOGIES CO.,LTD
086361 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
Building 17,Nangang Industrial Park, Tangtou 3nd Industrial Estate
Shenzhen GuangDong 518057
CN

AC-F7-F3 (hex) Xiaomi Communications Co Ltd
ACF7F3 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085

CN

D4-97-0B (hex) Xiaomi Communications Co Ltd
D4970B (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

8C-BE-BE (hex) Xiaomi Communications Co Ltd
8CBEBE (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle
Street Haidian District, Beijing 100085
CN

14-F6-5A (hex) Xiaomi Communications Co Ltd
14F65A (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

00-9E-C8 (hex) Xiaomi Communications Co Ltd
009EC8 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

0C-1D-AF (hex) Xiaomi Communications Co Ltd
0C1DAF (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

34-80-B3 (hex) Xiaomi Communications Co Ltd
3480B3 (base 16) Xiaomi Communications Co Ltd
The Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

F4-8B-32 (hex) Xiaomi Communications Co Ltd
F48B32 (base 16) Xiaomi Communications Co Ltd
The
Rainbow City of China Resources
NO.68, Qinghe Middle Street Haidian District, Beijing 100085
CN

AC-4E-91 (hex) HUAWEI TECHNOLOGIES CO.,LTD
AC4E91 (base 16) HUAWEI TECHNOLOGIES CO.,LTD

D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
ShenZhen GuangDong 518129
CN

28-31-52 (hex) HUAWEI TECHNOLOGIES CO.,LTD
283152 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
ShenZhen GuangDong 518129
CN

04-BD-70 (hex) HUAWEI TECHNOLOGIES CO.,LTD
04BD70 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base
Shenzhen Guangdong 518129
CN

00-1A-B6 (hex) Texas Instruments
001AB6 (base 16) Texas Instruments
108 Wild Basin Ste 350
Austin TX 78746
US

74-88-2A (hex) HUAWEI TECHNOLOGIES CO.,LTD
74882A (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1-4,Huawei Industrial Base,Bantian,Longgang
ShenZhen GuangDong 518129
CN

08-19-A6 (hex) HUAWEI
TECHNOLOGIES CO.,LTD
0819A6 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1-4,Huawei Industrial Base,Bantian,Longgang
ShenZhen GuangDong 518129
CN

3C-F8-08 (hex) HUAWEI TECHNOLOGIES CO.,LTD
3CF808 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
ShenZhen GuangDong 518129
CN

48-62-76 (hex) HUAWEI TECHNOLOGIES CO.,LTD
486276 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
ShenZhen GuangDong 518129
CN

B4-15-13 (hex) HUAWEI TECHNOLOGIES CO.,LTD

B41513 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
ShenZhen GuangDong 518129
CN

D8-42-AC (hex) Shanghai Feixun Communication Co.,Ltd.
D842AC (base 16) Shanghai Feixun Communication Co.,Ltd.
Building 90, No. 4855, Guangfulin Road, Songjiang District
Shanghai 201616
CN

54-39-DF (hex) HUAWEI TECHNOLOGIES CO.,LTD
5439DF
(base 16) HUAWEI TECHNOLOGIES CO.,LTD
D1,Huawei Industrial Base,Bantian,Longgang,Shenzhen
Shenzhen Guangdong 518129
CN

00-12-D1 (hex) Texas Instruments
0012D1 (base 16) Texas Instruments
12500 TI Boulevard,
Dallas 75243
US

00-12-37 (hex) Texas Instruments
001237 (base 16) Texas Instruments
12500 TI Boulevard,
Dallas 75243
US

A0-E6-F8 (hex) Texas Instruments
A0E6F8 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

70-FF-76 (hex) Texas Instruments
70FF76 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

D0-39-72 (hex) Texas Instruments
D03972 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

5C-31-3E (hex) Texas Instruments
5C313E (base 16) Texas Instruments
12500 TI BLVD
Dallas 75243
US

F4-B8-5E (hex) Texas Instruments
F4B85E (base 16) Texas Instruments
12500 TI BLVD
Dallas
75243
US

68-C9-0B (hex) Texas Instruments
68C90B (base 16) Texas Instruments
12500 TI BLVD
Dallas 75243
US

D4-F5-13 (hex) Texas Instruments
D4F513 (base 16) Texas Instruments
12500 TI BLVD
Dallas 75243
US

50-72-24 (hex) Texas Instruments
507224 (base 16) Texas Instruments
12500 TI BLVD
Dallas 75243
US

CC-F9-54 (hex) Avaya Inc
CCF954 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

2C-F4-C5 (hex) Avaya Inc
2CF4C5 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

3C-3A-73 (hex) Avaya Inc
3C3A73 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

FC-83-99 (hex) Avaya Inc
FC8399 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

A0-12-90 (hex) Avaya Inc
A01290 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

38-BB-3C (hex) Avaya Inc
38BB3C
(base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

F8-73-A2 (hex) Avaya Inc
F873A2 (base 16) Avaya Inc
360 Mt Kemble Ave
Morristown NJ 07960
US

00-11-2F (hex) ASUSTek COMPUTER INC.
00112F (base 16) ASUSTek COMPUTER INC.
No.150, Li-Te Rd., Peitou
Taipei 112
TW

00-90-D9 (hex) Cisco Systems, Inc
0090D9 (base 16) Cisco Systems, Inc
170 W. TASMAN DR.
SAN JOSE CA 95134-1706
US

00-90-92 (hex) Cisco Systems, Inc
009092 (base 16) Cisco Systems, Inc
170 W. TASMAN DR.
SAN JOSE CA 95134-1706
US

00-10-2F (hex) Cisco Systems, Inc
00102F (base 16) Cisco Systems, Inc
170 W. TASMAN DR.
SAN JOSE CA 95134-1706

US

00-10-0D (hex) Cisco Systems, Inc
00100D (base 16) Cisco Systems, Inc
170 W. TASMAN DR.
SAN JOSE CA 95134-1706
US

00-10-07 (hex) Cisco Systems, Inc
001007 (base 16) Cisco Systems, Inc
170 W. TASMAN DR.
SAN JOSE
CA 95134-1706
US

00-10-14 (hex) Cisco Systems, Inc
001014 (base 16) Cisco Systems, Inc
170 W. TASMAN DR.
SAN JOSE CA 95134-1706
US

00-90-21 (hex) Cisco Systems, Inc
009021 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-90-B1 (hex) Cisco Systems, Inc
0090B1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-90-BF (hex) Cisco Systems, Inc
0090BF (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-50-D1 (hex) Cisco Systems, Inc
0050D1 (base 16) Cisco Systems, Inc
170 W. TASMAN DR.
SAN JOSE CA 95134-1706
US

7C-95-F3 (hex) Cisco Systems, Inc
7C95F3 (base 16) Cisco Systems, Inc
170 West Tasman Drive

San Jose CA 95134
US

34-DB-FD (hex) Cisco Systems, Inc
34DBFD (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

88-5A-92 (hex) Cisco Systems,
Inc
885A92 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

00-40-0B (hex) Cisco Systems, Inc
00400B (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

00-60-70 (hex) Cisco Systems, Inc
006070 (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

00-E0-1E (hex) Cisco Systems, Inc
00E01E (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

00-1B-FC (hex) ASUSTek COMPUTER INC.
001BFC (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd.,Peitou
Taipei 112
TW

48-5B-39 (hex) ASUSTek COMPUTER INC.
485B39 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd.,Peitou,Taipei 112 ,Taiwan
Taipei Taiwan 112
TW

1C-E6-C7 (hex) Cisco Systems, Inc
1CE6C7 (base 16) Cisco Systems, Inc

170 West Tasman Drive
San Jose CA 95134
US

CC-D5-39 (hex) Cisco Systems, Inc
CCD539
(base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

50-06-04 (hex) Cisco Systems, Inc
500604 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

4C-00-82 (hex) Cisco Systems, Inc
4C0082 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

E4-48-C7 (hex) Cisco SPVTG
E448C7 (base 16) Cisco SPVTG
5030 Sugarloaf Pkwy
Lawrenceville GA 30044
US

00-10-1F (hex) Cisco Systems, Inc
00101F (base 16) Cisco Systems, Inc
170 WEST TASMAN DRIVE
SAN JOSE CA 95134-1706
US

B0-AA-77 (hex) Cisco Systems, Inc
B0AA77 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

BC-C4-93 (hex) Cisco Systems, Inc
BCC493 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

A4-6C-2A (hex) Cisco Systems, Inc

A46C2A (base 16) Cisco Systems, Inc
170 West
Tasman Drive
San Jose CA 95134
US

00-12-17 (hex) Cisco-Linksys, LLC
001217 (base 16) Cisco-Linksys, LLC
121 Theory Dr.
Irvine CA 92612
US

00-13-10 (hex) Cisco-Linksys, LLC
001310 (base 16) Cisco-Linksys, LLC
121 Theory Dr.
Irvine CA 92612
US

00-03-89 (hex) PLANTRONICS, INC.
000389 (base 16) PLANTRONICS, INC.
345 ENCINAL STREET
SANTA CRUZ CA 95060
US

A0-55-4F (hex) Cisco Systems, Inc
A0554F (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

20-4C-9E (hex) Cisco Systems, Inc
204C9E (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

84-B8-02 (hex) Cisco Systems, Inc
84B802 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

F4-0F-1B (hex) Cisco Systems, Inc
F40F1B (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

F8-C2-88 (hex) Cisco
Systems, Inc
F8C288 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

1C-6A-7A (hex) Cisco Systems, Inc
1C6A7A (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

50-67-AE (hex) Cisco Systems, Inc
5067AE (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

F0-9E-63 (hex) Cisco Systems, Inc
F09E63 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

BC-AE-C5 (hex) ASUSTek COMPUTER INC.
BCAEC5 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd.,Peitou,
Taipei 112
TW

10-BF-48 (hex) ASUSTek COMPUTER INC.
10BF48 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd.,Peitou,
Taipei 112
TW

6C-99-89 (hex) Cisco Systems, Inc
6C9989 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

00-1E-E5 (hex) Cisco-Linksys, LLC
001EE5 (base 16) Cisco-Linksys,
LLC
121 Theory Drive
Irvine 92612

US

48-44-87 (hex) Cisco SPVTG
484487 (base 16) Cisco SPVTG
5030 Sugarloaf Pkwy
Lawrenceville GA 30044
US

38-C8-5C (hex) Cisco SPVTG
38C85C (base 16) Cisco SPVTG
5030 Sugarloaf Pkwy
Lawrenceville GA 30044
US

D0-A5-A6 (hex) Cisco Systems, Inc
D0A5A6 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

3C-5E-C3 (hex) Cisco Systems, Inc
3C5EC3 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

64-F6-9D (hex) Cisco Systems, Inc
64F69D (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

18-E7-28 (hex) Cisco Systems, Inc
18E728 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

D0-72-DC (hex) Cisco Systems, Inc
D072DC (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

28-C7-CE (hex) Cisco
Systems, Inc
28C7CE (base 16) Cisco Systems, Inc
170 West Tasman Drive

San Jose CA 95134
US

54-A2-74 (hex) Cisco Systems, Inc
54A274 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

80-E0-1D (hex) Cisco Systems, Inc
80E01D (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

04-6C-9D (hex) Cisco Systems, Inc
046C9D (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

84-B2-61 (hex) Cisco Systems, Inc
84B261 (base 16) Cisco Systems, Inc
170 West Tasman Drive
San Jose CA 95134
US

70-DE-E2 (hex) Apple, Inc.
70DEE2 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-CB-A1 (hex) Apple, Inc.
F0CBA1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

18-20-32 (hex) Apple, Inc.
182032 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA
95014
US

60-FA-CD (hex) Apple, Inc.
60FACD (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

00-3E-E1 (hex) Apple, Inc.
003EE1 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

40-3C-FC (hex) Apple, Inc.
403CFC (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

48-60-BC (hex) Apple, Inc.
4860BC (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

34-51-C9 (hex) Apple, Inc.
3451C9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

40-6C-8F (hex) Apple, Inc.
406C8F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D0-23-DB (hex) Apple, Inc.
D023DB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

58-55-CA (hex) Apple, Inc.
5855CA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

DC-2B-61 (hex) Apple, Inc.
DC2B61 (base 16) Apple,

Inc.
1 Infinite Loop
Cupertino CA 95014
US

40-A6-D9 (hex) Apple, Inc.
40A6D9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

64-B9-E8 (hex) Apple, Inc.
64B9E8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D8-A2-5E (hex) Apple, Inc.
D8A25E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-23-12 (hex) Apple, Inc.
002312 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

60-FB-42 (hex) Apple, Inc.
60FB42 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-0A-27 (hex) Apple, Inc.
000A27 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-1D-4F (hex) Apple, Inc.
001D4F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

04-0C-CE (hex) Apple, Inc.

040CCE (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

FC-25-3F
(hex) Apple, Inc.
FC253F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

18-34-51 (hex) Apple, Inc.
183451 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

0C-77-1A (hex) Apple, Inc.
0C771A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

28-6A-BA (hex) Apple, Inc.
286ABA (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

4C-B1-99 (hex) Apple, Inc.
4CB199 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

C0-9F-42 (hex) Apple, Inc.
C09F42 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

54-EA-A8 (hex) Apple, Inc.
54EAA8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

28-E1-4C (hex) Apple, Inc.
28E14C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E4-C6-3D (hex) Apple, Inc.
E4C63D (base 16) Apple, Inc.
1
Infinite Loop
Cupertino CA 95014
US

54-E4-3A (hex) Apple, Inc.
54E43A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

04-DB-56 (hex) Apple, Inc.
04DB56 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

04-E5-36 (hex) Apple, Inc.
04E536 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-3C-0B (hex) Apple, Inc.
AC3C0B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

70-11-24 (hex) Apple, Inc.
701124 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

04-26-65 (hex) Apple, Inc.
042665 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

EC-35-86 (hex) Apple, Inc.
EC3586 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

DC-9B-9C (hex) Apple, Inc.
DC9B9C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

54-72-4F
(hex) Apple, Inc.
54724F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

8C-7C-92 (hex) Apple, Inc.
8C7C92 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

B0-34-95 (hex) Apple, Inc.
B03495 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

A8-BB-CF (hex) Apple, Inc.
A8BBCF (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

AC-7F-3E (hex) Apple, Inc.
AC7F3E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

28-0B-5C (hex) Apple, Inc.
280B5C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014

US

AC-FD-EC (hex) Apple, Inc.
ACFDEC (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

34-C0-59 (hex) Apple, Inc.
34C059 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F0-D1-A9 (hex) Apple, Inc.
F0D1A9 (base 16) Apple, Inc.
1 Infinite
Loop
Cupertino CA 95014
US

14-10-9F (hex) Apple, Inc.
14109F (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

04-F7-E4 (hex) Apple, Inc.
04F7E4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

F4-37-B7 (hex) Apple, Inc.
F437B7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

70-56-81 (hex) Apple, Inc.
705681 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

FC-A3-86 (hex) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
FCA386 (base 16) SHENZHEN CHUANGWEI-RGB ELECTRONICS CO.,LTD
Unit East Block22-24/F,Skyworth semiconductor design Bldg., Gaoxin Ave.4.S.,Nanshan District,Shenzhen,China

SHENZHEN GUANGDONG 518057
CN

D8-CF-9C (hex) Apple, Inc.
D8CF9C (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

78-FD-94 (hex) Apple, Inc.
78FD94 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino
CA 95014
US

2C-BE-08 (hex) Apple, Inc.
2CBE08 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

E8-80-2E (hex) Apple, Inc.
E8802E (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-61-71 (hex) Apple, Inc.
006171 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

DC-37-14 (hex) Apple, Inc.
DC3714 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

40-33-1A (hex) Apple, Inc.
40331A (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

CC-C7-60 (hex) Apple, Inc.
CCC760 (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

28-F0-76 (hex) Apple, Inc.
28F076 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

BC-4C-C4 (hex) Apple, Inc.
BC4CC4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

6C-40-08 (hex) Apple, Inc.
6C4008
(base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

20-A2-E4 (hex) Apple, Inc.
20A2E4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

14-13-57 (hex) ATP Electronics, Inc.
141357 (base 16) ATP Electronics, Inc.
2590 North First Street Suite 150
San Jose CA 95131
US

D8-48-EE (hex) Hangzhou Xueji Technology Co., Ltd.
D848EE (base 16) Hangzhou Xueji Technology Co., Ltd.
Room 1902, Tower D, West Intime City
Hangzhou Zhejiang 310012
CN

A8-47-4A (hex) Hon Hai Precision Ind. Co.,Ltd.
A8474A (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

C4-00-49 (hex) Kamama

C40049 (base 16) Kamama
100 Enterprise Way
Scotts Valley CA 95066
US

FC-CF-43 (hex) HUIZHOU CITY HUIYANG DISTRICT MEISIQI INDUSTRY DEVELOPMENT CO,.LTD
FCCF43 (base 16) HUIZHOU CITY HUIYANG DISTRICT MEISIQI INDUSTRY DEVELOPMENT CO,.LTD
Meisiqi lndustrialPark,Yuechang,
Huizhou Guangdong 516000
CN

B4-EF-04 (hex) DAIHAN Scientific Co., Ltd.
B4EF04 (base 16) DAIHAN Scientific Co., Ltd.
326, Sinpyoungsukhwaro
Wonju-si, Gangwon-do 26358
KR

A4-DE-C9 (hex) QLove Mobile Intelligence Information Technology (W.H.) Co. Ltd.
A4DEC9 (base 16) QLove Mobile Intelligence Information Technology (W.H.) Co. Ltd.
Sun Jia Tuan Township, Huan Cui District, Weihai, P.R.China
Weihai Shan Dong 264201
CN

CC-E0-C3 (hex) EXTEN Technologies, Inc.
CCE0C3 (base 16) EXTEN Technologies, Inc.
4201 W Parmer Lane Bldg A, Ste 200
Austin TX 78727
US

7C-01-91 (hex) Apple, Inc.
7C0191 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

0C-54-B9 (hex) Nokia
0C54B9 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

E4-35-C8 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E435C8 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

2C-1B-C8 (hex) Hunan Topview Network System CO.,LTD
2C1BC8 (base 16) Hunan Topview Network System CO.,LTD
RM 3002,3009,3010 Yuelu High-Tech Zone, Hanpu Couty, Yuelu District
Changsha Hunan 410208
CN

7C-71-76 (hex) Wuxi iData Technology Company Ltd.
7C7176 (base 16) Wuxi iData Technology Company Ltd.
Floor 11, Building B1, Wuxi(Binhu) National Sensing Information Center, No. 999 Gaolang East Road, Wuxi City, Jiangsu Province, P.R.C.
Wuxi Jiangsu 214131
CN

64-6A-74 (hex) AUTH-SERVERS, LLC
646A74 (base 16) AUTH-SERVERS, LLC
43479 Stukely Dr
Sterling VA 20166
US

4C-8E-CC (hex) SILKAN SA
4C8ECC (base 16) SILKAN SA
Immeuble le Sirius
Meudon La Foret Ile de France 92360
FR

B8-B2-EB (hex) Googol Technology (HK) Limited
B8B2EB (base 16) Googol Technology (HK) Limited
Unit 1008-09, 10/F C-Bons
International Center
Kwun Tong Kowloon nil
HK

90-8D-78 (hex) D-Link International
908D78 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

80-D6-05 (hex) Apple, Inc.
80D605 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

98-E8-48 (hex) Axiim
98E848 (base 16) Axiim
12126 NE 106th Pl

Kirkland WA 98033
US

40-40-A7 (hex) Sony Corporation
4040A7 (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

C0-4A-09 (hex) Zhejiang Everbright Communication Equip. Co,. Ltd
C04A09 (base 16) Zhejiang Everbright Communication Equip. Co,. Ltd
291# Wei 19th Rd.
Wenzhou Zhejiang 325600
CN

A0-1E-0B (hex) MINIX Technology Limited
A01E0B (base 16) MINIX Technology Limited
Unit 1501, Chevalier Commercial Center
Kowloon Bay Kowloon 000000
HK

68-E8-EB (hex) Linktel Technologies Co.,Ltd
68E8EB
(base 16) Linktel Technologies Co.,Ltd
No.20 University Science Park Road,
Wuhan Hubei 430223
CN

A8-45-CD (hex) Siselectron Technology LTD.
A845CD (base 16) Siselectron Technology LTD.
5F., No.232, Sec. 2, Sioulang Rd., Yonghe Dist.,
New Taipei City Taiwan 23453
TW

D0-C1-93 (hex) SKYBELL, INC
D0C193 (base 16) SKYBELL, INC
1 JENNER, SUITE 100
IRVINE CA 92618
US

D4-83-04 (hex) SHENZHEN FAST TECHNOLOGIES CO.,LTD
D48304 (base 16) SHENZHEN FAST TECHNOLOGIES CO.,LTD
Room 202,Building No.5,Section 30,No.2 of Kefa Road,Nanshan District,Shenzhen,P.R.China
Shenzhen Guangdong 518057
CN

DC-2B-2A (hex) Apple, Inc.
DC2B2A (base 16) Apple, Inc.

1 Infinite Loop
Cupertino CA 95014
US

AC-64-62 (hex) zte corporation
AC6462 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

48-13-7E (hex) Samsung
Electronics Co.,Ltd
48137E (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C0-25-A2 (hex) NEC Platforms, Ltd.
C025A2 (base 16) NEC Platforms, Ltd.
2-3 Kandatsukasamachi
Chiyodaku Tokyo 101-8532
JP

84-10-0D (hex) Motorola Mobility LLC, a Lenovo Company
84100D (base 16) Motorola Mobility LLC, a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

D0-0F-6D (hex) T&W Electronics Company
D00F6D (base 16) T&W Electronics Company
89# Jiang Nan RD, Lu Du
Taicang Jiangsu 21500
CN

9C-8D-D3 (hex) Leonton Technologies
9C8DD3 (base 16) Leonton Technologies
3F, No.501-16, Zhongzheng Rd., Xindian Dist.
New Taipei City Taiwan 231
TW

A4-38-31 (hex) RF elements s.r.o.
A43831 (base 16) RF elements s.r.o.
Jasenovská 2528
Humenne SK 06603
SK

38-05-46 (hex) Foctek Photonics, Inc.

380546 (base 16) Foctek Photonics, Inc.
No.
8, the 7th Road Phase II of Minhou Tieling Industrial District
Fuzhou Fujian 350100
CN

10-CC-1B (hex) Liverock technologies,INC
10CC1B (base 16) Liverock technologies,INC
Shinjuku 5-13-10,Joshu-Bldg. 4F
Tokyo Shinjuku-ku 160-0022
JP

E8-07-34 (hex) Champion Optical Network Engineering, LLC
E80734 (base 16) Champion Optical Network Engineering, LLC
23645 Mercantile Rd.
Beachwood OH 44122
US

08-9B-4B (hex) iKuai Networks
089B4B (base 16) iKuai Networks
So Boss Tech Center 2 # 716
Fengtai District Beijing 100068
CN

44-73-D6 (hex) Logitech
4473D6 (base 16) Logitech
7700 Gateway Blvd
Newark CA 94560
US

30-F7-72 (hex) Hon Hai Precision Ind. Co.,Ltd.
30F772 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

DC-3C-F6 (hex) Atomic Rules LLC
DC3CF6 (base 16) Atomic Rules LLC
287 Chester Rd
Auburn
NH 03032
US

6C-72-20 (hex) D-Link International
6C7220 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

30-A2-43 (hex) Shenzhen Prifox Innovation Technology Co., Ltd.
30A243 (base 16) Shenzhen Prifox Innovation Technology Co., Ltd.
Room B905, Bldg 4, Software Industry Park,
Shenzhen Guangdong Province 518057

E4-1A-2C (hex) ZPE Systems, Inc.
E41A2C (base 16) ZPE Systems, Inc.
39420 Liberty Street, #253
Fremont CA 94538
US

E8-BD-D1 (hex) HUAWEI TECHNOLOGIES CO.,LTD
E8BDD1 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

A8-15-D6 (hex) Shenzhen Meione Technology CO., LTD
A815D6 (base 16) Shenzhen Meione Technology CO., LTD
12th FloorFutian Sports Park Cultural Industries Headquarters Building No. 3030 Fuqiang Road, Futian District
Shenzhen Guangdong
518000
CN

C0-7C-D1 (hex) PEGATRON CORPORATION
C07CD1 (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

F4-15-35 (hex) SPON Communication Technology Co.,Ltd
F41535 (base 16) SPON Communication Technology Co.,Ltd
B Building, Lugu International Industrial Zone, NO.229, Tongzipo Road, Changsha, China
changsha hunan 410000
CN

38-0A-AB (hex) Formlabs
380AAB (base 16) Formlabs
35 Medford St
Somerville MA 02143
US

E0-1A-EA (hex) Allied Telesis, Inc.
E01AEA (base 16) Allied Telesis, Inc.
3041 Orchard Parkway
San Jose CALIFORNIA 95134

US

D4-45-E8 (hex) Jiangxi Hongpai Technology Co., Ltd.
D445E8 (base 16) Jiangxi Hongpai Technology Co., Ltd.
5th Floor,C Region, Zhejiang University Science Park,No. 698,
Nanchang Jiangxi 330096
CN

38-2D-E8 (hex) Samsung Electronics Co.,Ltd
382DE8 (base 16) Samsung Electronics Co.,Ltd
#94-1,
Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

C0-89-97 (hex) Samsung Electronics Co.,Ltd
C08997 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

04-C2-3E (hex) HTC Corporation
04C23E (base 16) HTC Corporation
No. 23, Xinghua Rd., Taoyuan City
Taoyuan County Taiwan 330
TW

90-D8-F3 (hex) zte corporation
90D8F3 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

34-26-06 (hex) CarePredict, Inc.
342606 (base 16) CarePredict, Inc.
PO Box 551686
Fort Lauderdale Florida 33355
US

38-B7-25 (hex) Wistron Infocomm (Zhongshan) Corporation
38B725 (base 16) Wistron Infocomm (Zhongshan) Corporation
No.38,East Keji Road,Zhongshan Torch Development Zone,Zhongshan City,Guangdong,China
Zhongshan Guangdong 528437
CN

AC-EC-80 (hex) ARRIS Group, Inc.
ACEC80 (base 16) ARRIS Group, Inc.
6450

Sequence Drive
San Diego CA 92121
US

FC-33-5F (hex) Polyera
FC335F (base 16) Polyera
8045 Lamon Avenue
Skokie IL 60077
US

F0-26-24 (hex) WAFA TECHNOLOGIES CO., LTD.
F02624 (base 16) WAFA TECHNOLOGIES CO., LTD.
Room302, Longtaili Building
Shenzhen Guangdong 518057
CN

F8-F4-64 (hex) Rawe Electonic GmbH
F8F464 (base 16) Rawe Electonic GmbH
Bregenzer Str. 67-69
Weiler im Allgäu Bavaria 88171
DE

58-F1-02 (hex) BLU Products Inc.
58F102 (base 16) BLU Products Inc.
Tower 4, Excellence Century Center
Shenzhen Guangdong 518000
CN

F4-C6-13 (hex) Alcatel-Lucent Shanghai Bell Co., Ltd
F4C613 (base 16) Alcatel-Lucent Shanghai Bell Co., Ltd
No. 389, Ningqiao Road, Pudong Jinqiao
Shanghai 201206
CN

44-5F-8C (hex) Intercel Group Limited
445F8C (base 16) Intercel Group Limited
Unit 6, 17/F, Vanta industrial Centre,
New Territories, Hong Kong
CN

B8-89-81
(hex) Chengdu InnoThings Technology Co., Ltd.
B88981 (base 16) Chengdu InnoThings Technology Co., Ltd.
West Port Technology Enterprise Incubator Park
Chengdu Sichuan 610000
CN

AC-67-6F (hex) Electrocompaniet A.S.

AC676F (base 16) Electrocompaniet A.S.
Breivikveien 7
Tau Rogaland 4120
NO

E0-55-3D (hex) Cisco Meraki
E0553D (base 16) Cisco Meraki
500 Terry A. Francois Blvd
San Francisco 94158
US

64-0D-E6 (hex) Petra Systems
640DE6 (base 16) Petra Systems
One Cragwood Road
South Plainfield NJ 07080
US

38-01-95 (hex) Samsung Electronics Co.,Ltd
380195 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

94-9F-3E (hex) Sonos, Inc.
949F3E (base 16) Sonos, Inc.
614 Chapala St
Santa Barbara CA 93101
US

5C-51-88 (hex) Motorola Mobility LLC, a Lenovo Company
5C5188 (base 16) Motorola Mobility LLC,
a Lenovo Company
222 West Merchandise Mart Plaza
Chicago IL 60654
US

EC-01-33 (hex) TRINUS SYSTEMS INC.
EC0133 (base 16) TRINUS SYSTEMS INC.
UNITECH VENTURE TOWN SUITE 801
GOYANG-SI GYEONGGI-DO 410-722
KR

44-97-5A (hex) SHENZHEN FAST TECHNOLOGIES CO.,LTD
44975A (base 16) SHENZHEN FAST TECHNOLOGIES CO.,LTD
Room 202,Building No.5,Section 30,No.2 of Kefa Road,Nanshan District,Shenzhen,P.R.China
Shenzhen Guangdong 518057
CN

50-45-F7 (hex) Liuhe Intelligence Technology Ltd.
5045F7 (base 16) Liuhe Intelligence Technology Ltd.
7th Floor,Information Building,
Beijing Beijing 100085
CN

DC-A3-AC (hex) RBcloudtech
DCA3AC (base 16) RBcloudtech
5th Floor, Jiangnan Street NO.3900, Binjiang District, Hangzhou City.
Hangzhou Zhejiang 310052
CN

84-D4-C8 (hex) Widex A/S
84D4C8 (base 16) Widex A/S
Nymoellevej 6
Lynge Alleroed DK3540
DK

EC-21-E5 (hex) Toshiba
EC21E5 (base
16) Toshiba
2-9,Suehiro-Cho
Ome Tokyo 1988710
JP

28-B9-D9 (hex) Radisys Corporation
28B9D9 (base 16) Radisys Corporation
5435 NE Dawson Creek Drive
Hillsboro OR 97124
US

0C-E7-25 (hex) Microsoft Corporation
0CE725 (base 16) Microsoft Corporation
1 Microsoft Way
Redmond Washington 98052
FI

30-89-D3 (hex) HONGKONG UCLOUDLINK NETWORK TECHNOLOGY LIMITED
3089D3 (base 16) HONGKONG UCLOUDLINK NETWORK TECHNOLOGY LIMITED
FLAT A-8 9/F DELYA INDUSTRIAL CENTRE 7 SHEK PAI TAU ROAD
Hong Kong
CN

84-2E-27 (hex) Samsung Electronics Co.,Ltd
842E27 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

1C-AD-D1 (hex) Bosung Electronics Co., Ltd.
1CADD1 (base 16) Bosung Electronics Co., Ltd.
74-12, Saemaeul-ro.
Gumi-si Gyeongsangbuk-do 730-930
KR

08-2C-B0 (hex) Network Instruments
082CB0 (base 16) Network Instruments
10701 Red Circle
Dr
Minnetonka Minnesota 55343
US

E0-DB-10 (hex) Samsung Electronics Co.,Ltd
E0DB10 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A0-13-CB (hex) Fiberhome Telecommunication Technologies Co.,LTD
A013CB (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

D0-04-92 (hex) Fiberhome Telecommunication Technologies Co.,LTD
D00492 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan Hubei 430074
CN

5C-B3-95 (hex) HUAWEI TECHNOLOGIES CO.,LTD
5CB395 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

90-6C-AC (hex) Fortinet, Inc.
906CAC (base 16) Fortinet, Inc.
899 Kifer Road
Sunnyvale California 94086
US

2C-C5-48 (hex) IAdea Corporation
2CC548 (base 16) IAdea Corporation
3F, No.33, Lane

77, Xing-ai Road
Taipei Taiwan 114
TW

14-DD-A9 (hex) ASUSTek COMPUTER INC.
14DDA9 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

3C-DA-2A (hex) zte corporation
3CDA2A (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

14-32-D1 (hex) Samsung Electronics Co.,Ltd
1432D1 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

18-16-C9 (hex) Samsung Electronics Co.,Ltd
1816C9 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

54-61-72 (hex) ZODIAC AEROSPACE SAS
546172 (base 16) ZODIAC AEROSPACE SAS
61 rue Pierre Curie
PLAISIR 78370
FR

EC-60-E0 (hex) AVI-ON LABS
EC60E0 (base 16) AVI-ON LABS
2585 LARKSPUR DR
PARK CITY UT 84060
US

3C-A3-1A (hex) Oilfind International
LLC
3CA31A (base 16) Oilfind International LLC
12651 Briar Forest Dr, Suite 151
Houston Texas 77077
US

18-4F-32 (hex) Hon Hai Precision Ind. Co.,Ltd.

184F32 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

00-FC-8D (hex) Hitron Technologies. Inc
00FC8D (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

B4-6D-35 (hex) Dalian Seasky Automation Co;Ltd
B46D35 (base 16) Dalian Seasky Automation Co;Ltd
Room 408, DUT Science & Technology Park Building B, No.80 Software Park Road, High-Tech Industrial Zone, Dalian, Liaoning, China
Dalian Liao Ning 116023
CN

84-DF-19 (hex) Chuango Security Technology Corporation
84DF19 (base 16) Chuango Security Technology Corporation
6-17, Overseas Students Pioneer Park,
Fuzhou Fujian 350015
CN

DC-15-DB
(hex) Ge Ruili Intelligent Technology (Beijing) Co., Ltd.
DC15DB (base 16) Ge Ruili Intelligent Technology (Beijing) Co., Ltd.
Room 821, block E, No.6 Taiping Street, Xicheng District
Beijing 100005
CN

64-59-F8 (hex) Vodafone Omnitel B.V.
6459F8 (base 16) Vodafone Omnitel B.V.
VIA JERVIS, 13 10015 IVREA (TO)

IT

6C-44-18 (hex) Zappware
6C4418 (base 16) Zappware
Ilgatlaan 19
Hasselt Limburg 3500
BE

A8-D4-09 (hex) USA 111 Inc
A8D409 (base 16) USA 111 Inc
5885 Green Pointe Dr. Suite B Groveport, OH 43125
Groveport Ohio 43125
US

6C-45-98 (hex) Antex Electronic Corp.
6C4598 (base 16) Antex Electronic Corp.
170 He Ping St.,
Tainan City 73443
TW

68-A3-78 (hex) FREEBOX SAS
68A378 (base 16) FREEBOX SAS
16 rue de la Ville l'Eveque
PARIS IdF 75008
FR

E8-F2-E3 (hex) Starcor Beijing Co.,Limited
E8F2E3 (base 16) Starcor Beijing Co.,Limited
NO.210
Block B, Building 2
Beijing Berijing 100089
CN

30-F3-35 (hex) HUAWEI TECHNOLOGIES CO.,LTD
30F335 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

B8-78-79 (hex) Roche Diagnostics GmbH
B87879 (base 16) Roche Diagnostics GmbH
Sandhofer Strasse 116
Mannheim Baden-Wuerttemberg 68305
DE

D0-83-D4 (hex) Xtel Wireless ApS
D083D4 (base 16) Xtel Wireless ApS
Alfred Nobels vej 21E
Aalborg Oest Nordjylland 9220
DK

5C-A1-78 (hex) TableTop Media (dba Ziosk)
5CA178 (base 16) TableTop Media (dba Ziosk)
12404 Park Central Drive
Dallas TX 75251
US

34-0A-22 (hex) TOP-ACCESS ELECTRONICS CO LTD
340A22 (base 16) TOP-ACCESS ELECTRONICS CO LTD
No. 2 Building
MingZhi Street BaoAn District,ShenzheN 518131

CN

E8-66-C4 (hex) Diamanti
E866C4 (base 16) Diamanti
111 N. Market Street
San Jose CA 95113
US

D4-D7-A9
(hex) Shanghai Kaixiang Info Tech LTD
D4D7A9 (base 16) Shanghai Kaixiang Info Tech LTD
A401, NO.509 Caobao Road, Shanghai, PRC
Shanghai Shanghai 200233
CN

60-19-70 (hex) HUIZHOU QIAOXING ELECTRONICS TECHNOLOGY CO., LTD.
601970 (base 16) HUIZHOU QIAOXING ELECTRONICS TECHNOLOGY CO., LTD.
Room -611, TianAn High-Tech Plaza II , Futian District, Shenzhen, China
Shenzhen Guangdong 518040
CN

A4-08-EA (hex) Murata Manufacturing Co., Ltd.
A408EA (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

34-3D-98 (hex) JinQianMao Technology Co.,Ltd.
343D98 (base 16) JinQianMao Technology Co.,Ltd.
58#,Jiangbin Road,Taijiang District
Fuzhou Fujian 350009
CN

80-74-59 (hex) K's Co.,Ltd.
807459 (base 16) K's Co.,Ltd.
2864-16 Ryomitsuyanagi
Yonago Tottori 683-0853
JP

F4-47-13 (hex) Leading Public Performance Co., Ltd.
F44713 (base
16) Leading Public Performance Co., Ltd.
137/77-78 Moo 1 Nanthanagarden Soi 12 Pathum-Rangsit Road Banklang Muang Pathumthani 12000 Thailand
Pathumthani Pathumthani 12000
TH

9C-BE-E0 (hex) Biosoundlab Co., Ltd.
9CBEE0 (base 16) Biosoundlab Co., Ltd.

(Sangdaewon-dong, Sunil Technopia 907-908ho)
Jungwon-gu Seongnam-si Gyeonggi-do, 462726
KR

0C-41-3E (hex) Microsoft Corporation
0C413E (base 16) Microsoft Corporation
1 Microsoft Way
Redmond Washington 98052
FI

58-47-04 (hex) Shenzhen Webridge Technology Co.,Ltd
584704 (base 16) Shenzhen Webridge Technology Co.,Ltd
B2-22/F Chinese Technology Development Institute, High South Road, Nanshan District, Shenzhen, China
Shenzhen Guangdong 518000
CN

E4-69-5A (hex) Dictum Health, Inc.
E4695A (base 16) Dictum Health, Inc.
255 3rd Street, Suite 102
Oakland CA 94607
US

7C-7A-53 (hex) Phytrex Technology Corp.
7C7A53 (base 16) Phytrex
Technology Corp.
8F-16, No.81, Shuili Rd.,
Hsinchu Taiwan 30059
TW

10-78-73 (hex) Shenzhen Jinkeyi Communication Co., Ltd.
107873 (base 16) Shenzhen Jinkeyi Communication Co., Ltd.
No. 10 Shun King Road, Zhen Ping Xi Cun,
Shenzhen Guangdong 518117
CN

48-EE-0C (hex) D-Link International
48EE0C (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

EC-3C-88 (hex) MCNEX Co.,Ltd.
EC3C88 (base 16) MCNEX Co.,Ltd.
Hanshin IT Tower2 11F, Digital lo 9 gil
Geumcheon-Gu Seoul 153-712
KR

90-C3-5F (hex) Nanjing Jiahao Technology Co., Ltd.

90C35F (base 16) Nanjing Jiahao Technology Co., Ltd.
Moling Industrial Park, Development Zone, Jiangning, Nanjing
Nanjing Jiangsu 211111
CN

C8-08-E9 (hex) LG Electronics
C808E9 (base 16) LG Electronics
222 LG-ro, JINWI-MYEON
Pyeongtaek-si Gyeonggi-do 451-713
KR

18-3A-2D (hex) Samsung
Electronics Co.,Ltd
183A2D (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

08-D3-4B (hex) Techman Electronics (Changshu) Co., Ltd.
08D34B (base 16) Techman Electronics (Changshu) Co., Ltd.
No.66, Dalian Road, High-Tech Industrial Park
Changshu Jiangsu Province 215500
CN

78-A3-51 (hex) SHENZHEN ZHIBOTONG ELECTRONICS CO.,LTD
78A351 (base 16) SHENZHEN ZHIBOTONG ELECTRONICS CO.,LTD
2F,Bldg. A,Kangmai Industrial Park,Renmin Rd
Shenzhen Guangdong 518110
CN

F0-2A-23 (hex) Creative Next Design
F02A23 (base 16) Creative Next Design
6-6-15, Kaminopporo 3-jo,
Sapporo-shi Hokkaido 004-0033
JP

D0-6F-4A (hex) TOPWELL INTERNATIONAL HOLDINGS LIMITED
D06F4A (base 16) TOPWELL INTERNATIONAL HOLDINGS LIMITED
Unit 2506, 25/F, Prosperity Place,
Hong Kong N/A N/A
CN

04-92-EE (hex) iway AG
0492EE (base 16) iway AG
Badenerstrasse 569
Zurich ZH 8048
CH

B4-EF-39
(hex) Samsung Electronics Co.,Ltd
B4EF39 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

74-A0-63 (hex) HUAWEI TECHNOLOGIES CO.,LTD
74A063 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

70-AD-54 (hex) Malvern Instruments Ltd
70AD54 (base 16) Malvern Instruments Ltd
Grovewood Rd
Malvern Worcestershire WR14 1XZ
GB

90-00-DB (hex) Samsung Electronics Co.,Ltd
9000DB (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

EC-E2-FD (hex) SKG Electric Group(Thailand) Co., Ltd.
ECE2FD (base 16) SKG Electric Group(Thailand) Co., Ltd.
3F,The Second Building,Sanhe village , Longhua Rd, Baoan Dist., Shenzhen, China
Shenzhen Guangdong 518301
CN

14-8F-21 (hex) Garmin International
148F21 (base 16) Garmin International
1200 E. 151st
St
Olathe KS 66062
US

9C-68-5B (hex) Octonion SA
9C685B (base 16) Octonion SA
EPFL Innovation Park, Bâtiment C
Lausanne Vaud 1015
CH

BC-6E-64 (hex) Sony Corporation
BC6E64 (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075

JP

6C-2E-72 (hex) B&B EXPORTING LIMITED
6C2E72 (base 16) B&B EXPORTING LIMITED
Bldg.#D,Xinhe Industrial Park
Guangzhou Guangdong 510880
CN

5C-CC-FF (hex) Techroutes Network Pvt Ltd
5CCCFF (base 16) Techroutes Network Pvt Ltd
WW1-SF, Malibu Towne
Gurgaon Haryana 122002
IN

FC-32-88 (hex) CELOT Wireless Co., Ltd
FC3288 (base 16) CELOT Wireless Co., Ltd
4Fl.,NongHyup Bldg.,#1588-10 Gwanyang-Dong
Anyang City, Gyeonggi-Do 431-727
KR

D8-74-95 (hex) zte corporation
D87495 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

7C-53-4A (hex) Metamako
7C534A
(base 16) Metamako
Suite 207
Sydney Other 2000
AU

BC-B3-08 (hex) HONGKONG RAGENTEK COMMUNICATION TECHNOLOGY CO.,LIMITED
BCB308 (base 16) HONGKONG RAGENTEK COMMUNICATION TECHNOLOGY CO.,LIMITED
Building D10-D11
PuDong District Shanghai 201315
CN

34-4C-A4 (hex) amazipoint technology Ltd.
344CA4 (base 16) amazipoint technology Ltd.
1F,No. 14, Aly. 32, Ln. 133, Zhongyang Rd.,
New Taipei City, 231
TW

A8-F0-38 (hex) SHEN ZHEN SHI JIN HUA TAI ELECTRONICS CO.,LTD
A8F038 (base 16) SHEN ZHEN SHI JIN HUA TAI ELECTRONICS CO.,LTD
Room A,Forth Floor,Building B,Hengmingzhu Industrial Park,Xixiang Forist and Fruit Bureau,Qianjin Road, Baoan

District,Shenzhen city,Guangdong provice
518126
CN

AC-C7-3F (hex) VITSMO CO., LTD.
ACC73F (base 16) VITSMO CO., LTD.
RM1418-1419, HansinIntervalley 24 Bldg.
SEOUL 135-918
KR

9C-E2-30 (hex) JULONG CO,.LTD.
9CE230 (base 16) JULONG CO,.LTD.
308QianShanZhong
Road,TieDong District,AnShan
AnShan City LiaoNing Province 114051
CN

5C-3B-35 (hex) Gehirn Inc.
5C3B35 (base 16) Gehirn Inc.
1-3-6 Kudan-kita
Chiyoda Tokyo 102-0073
JP

E4-FE-D9 (hex) EDMI Europe Ltd
E4FED9 (base 16) EDMI Europe Ltd
The Grainger Suite, Dobson House, Regent Centre
Newcastle upon Tyne Newcastle upon Tyne NE3 3PF
GB

5C-41-E7 (hex) Wiatec International Ltd.
5C41E7 (base 16) Wiatec International Ltd.
Unit 601-605,TaoJinDi Electronic Commercial
Shenzhen GuangDong 518131
CN

BC-E7-67 (hex) Quanzhou TDX Electronics Co., Ltd
BCE767 (base 16) Quanzhou TDX Electronics Co., Ltd
Hi-tech Park economic and tech development zone
Quanzhou Fujian province 362005
CN

EC-74-BA (hex) Hirschmann Automation and Control GmbH
EC74BA (base 16) Hirschmann Automation and Control GmbH
Stuttgarter Strasse 45-51
Neckartenzlingen Baden-Württemberg 72654
DE

5C-F7-C3

(hex) SYNTECH (HK) TECHNOLOGY LIMITED
5CF7C3 (base 16) SYNTECH (HK) TECHNOLOGY LIMITED
Unit No. 1, 12/F., Perfect Industrial Building ,
Kowloon, Hong Kong 999077
HK

BC-4D-FB (hex) Hitron Technologies. Inc
BC4DFB (base 16) Hitron Technologies. Inc
No. 1-8, Lising 1st Rd. Hsinchu Science Park, Hsinchu, 300, Taiwan, R.O.C
Hsin-chu Taiwan 300
TW

2C-33-7A (hex) Hon Hai Precision Ind. Co.,Ltd.
2C337A (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

84-DD-B7 (hex) Cilag GmbH International
84DDB7 (base 16) Cilag GmbH International
Gubelstrasse 34
Zug _ CH-6300
CH

70-76-FF (hex) KERLINK
7076FF (base 16) KERLINK
1 rue Jacqueline AURIOL
THORIGNE FOUILLARD 35235
FR

14-36-C6 (hex) Lenovo Mobile Communication Technology Ltd.
1436C6 (base 16) Lenovo Mobile Communication Technology Ltd.
No.999, Qishan North
2nd Road, Information & Optoelectronics Park,
Xiamen Fujian 361006

08-EF-AB (hex) SAYME WIRELESS SENSOR NETWORK
08EFAB (base 16) SAYME WIRELESS SENSOR NETWORK
Calle Albert Einstein 18, 4a
Santander Cantabria 39011
ES

78-FC-14 (hex) Family Zone Cyber Safety Ltd
78FC14 (base 16) Family Zone Cyber Safety Ltd
175 Heytesbury Rd
Subiaco WA 6008
AU

38-09-A4 (hex) Firefly Integrations
3809A4 (base 16) Firefly Integrations
1013 Elroy Dr
Middlebury IN 46540
US

44-35-6F (hex) Neterix Ltd
44356F (base 16) Neterix Ltd
Viscount House, River Lane
Chester Cheshire CH4 8RH
GB

74-E2-77 (hex) Vizmonet Pte Ltd
74E277 (base 16) Vizmonet Pte Ltd
32,Canberra drive,#05-28
76431
SG

14-89-3E (hex) VIXTEL TECHNOLOGIES LIMTED
14893E (base 16) VIXTEL TECHNOLOGIES LIMTED
ROOM 1409, 14/F, BLOCK B, KAILEY CENTER
CHAI WAN
HK

FC-AF-AC (hex) Socionext Inc.
FCAFAC
(base 16) Socionext Inc.
19 Nishikujo-Kasuga-cho
Minaki-ku Kyoto 601-8413
JP

38-2C-4A (hex) ASUSTek COMPUTER INC.
382C4A (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

CC-BD-D3 (hex) Ultimaker B.V.
CCBDD3 (base 16) Ultimaker B.V.
Burgemeester Rozeveld van de Venlaan 11
Geldermalsen Gelderland 4191 PL
NL

8C-E7-8C (hex) DK Networks
8CE78C (base 16) DK Networks
20F-3, No.689, Zhong-Zheng Road, Zhong-He Dist.
New Taipei City Taiwan 235

TW

54-51-46 (hex) AMG Systems Ltd.
545146 (base 16) AMG Systems Ltd.
3 The Omega Centre
Biggleswade Bedfordshire SG18 8QB
GB

84-63-D6 (hex) Microsoft Corporation
8463D6 (base 16) Microsoft Corporation
1 Microsoft Way
Redmond Washington 98052
FI

BC-54-F9 (hex) Drogoo Technology Co., Ltd.
BC54F9 (base 16) Drogoo Technology Co., Ltd.
Shenzhen Dayun software town 17 2
floor
Shenzhen Guangdong 518172
CN

EC-13-B2 (hex) Netonix
EC13B2 (base 16) Netonix
6 East Main St
Leola PA 17540
US

10-4E-07 (hex) Shanghai Genvision Industries Co.,Ltd
104E07 (base 16) Shanghai Genvision Industries Co.,Ltd
2/F Building E,NO.55,Luo Jin Road,MinHang District,Shanghai
Shanghai Shanghai 200237
CN

5C-AA-FD (hex) Sonos, Inc.
5CAAFD (base 16) Sonos, Inc.
614 Chapala St
Santa Barbara CA 93101
US

F0-3D-29 (hex) Actility
F03D29 (base 16) Actility
110 rue des Poissonniers
Paris Paris 75018
FR

68-F7-28 (hex) LCFC(HeFei) Electronics Technology co., ltd
68F728 (base 16) LCFC(HeFei) Electronics Technology co., ltd
YunGu Road 3188-1

Hefei Anhui 230000
CN

30-73-50 (hex) Inpeco SA
307350 (base 16) Inpeco SA
Via San Gottardo 10
Lugano Ticino 6900
CH

04-9B-9C (hex) Eadingcore Intelligent Technology Co., Ltd.
049B9C (base 16) Eadingcore
Intelligent Technology Co., Ltd.
No. 169 Lijia city C District comprehensive 3 layer C3-10 mallFive-One road
Fuzhou Fujian 350000
CN

84-26-90 (hex) BEIJING THOUGHT SCIENCE CO.,LTD.
842690 (base 16) BEIJING THOUGHT SCIENCE CO.,LTD.
1-1102,International Business Park,No.1 ShangDi Xinxi Rd,Haidian District,Beijing
beijing beijing 100085
CN

80-19-67 (hex) Shanghai Reallytek Information Technology Co.,Ltd
801967 (base 16) Shanghai Reallytek Information Technology Co.,Ltd
906 Room,No.1 Building,No.3000 Longdong Avenue
Shanghai 201203
CN

2C-F7-F1 (hex) Seeed Technology Inc.
2CF7F1 (base 16) Seeed Technology Inc.
5th Floor, 8th Building, Shiling industrial Park, XiLi Town, NanShan dist. Shenzhen
ShenZhen GuangDong 518055
CN

DC-EC-06 (hex) Heimi Network Technology Co., Ltd.
DCEC06 (base 16) Heimi Network Technology Co., Ltd.
Room 12B12, Block A2, Long-Term World Building,
Beijing Beijing
100080
CN

3C-1E-13 (hex) HANGZHOU SUNRISE TECHNOLOGY CO., LTD
3C1E13 (base 16) HANGZHOU SUNRISE TECHNOLOGY CO., LTD
No.9, LongTan Road, CangQian Town, YuHang District, Hangzhou, China
HangZhou ZheJiang 311121
CN

08-11-5E (hex) Bitel Co., Ltd.

08115E (base 16) Bitel Co., Ltd.
9F Yohyun B/D, 242-29, Nonhyun-dong
Seoul Gangnam-gu 135830
KR

08-81-BC (hex) HongKong Ipro Technology Co., Limited
0881BC (base 16) HongKong Ipro Technology Co., Limited
Flat/Rm A3 9/F Silvercorp Int Tower
HONGKONG 999077
HK

C0-98-79 (hex) Acer Inc.
C09879 (base 16) Acer Inc.
8F, 88, Sec.1, Xintai 5th Rd.
New Taipei City N/A 221
TW

CC-3F-1D (hex) HMS Industrial Networks SLU
CC3F1D (base 16) HMS Industrial Networks SLU
Milà i Fontanals 7
Igualada Barcelona 08700
ES

DC-DA-4F (hex) GETCK TECHNOLOGY, INC
DCDA4F (base 16) GETCK TECHNOLOGY, INC
Room 508, NO .48 ZhengYi road
SHANGHAI
200082
CN

34-28-F0 (hex) ATN International Limited
3428F0 (base 16) ATN International Limited
4210, Office Tower, Convention Plaza
Hong Kong Hong Kong 00000
HK

CC-10-A3 (hex) Beijing Nan Bao Technology Co., Ltd.
CC10A3 (base 16) Beijing Nan Bao Technology Co., Ltd.
Room 8476Floor 8,Building 3
Shijingshan District Beijing 100041
CN

14-ED-E4 (hex) Kaiam Corporation
14EDE4 (base 16) Kaiam Corporation
39677 Eureka Drive
Newark California 94560
US

60-36-96 (hex) The Sapling Company
603696 (base 16) The Sapling Company
1633 Republic Rd
Huntingdon Valley PA 19006
US

54-FF-CF (hex) Mopria Alliance
54FFCF (base 16) Mopria Alliance
2400 Camino Ramon, Ste #375
San Ramon CA 94583
US

AC-B7-4F (hex) METEL s.r.o.
ACB74F (base 16) METEL s.r.o.
Zizkuv Kopec 617
Ceska Skalice NA 55203
CZ

B8-4F-D5 (hex) Microsoft Corporation
B84FD5 (base 16) Microsoft
Corporation
1 Microsoft Way
Redmond Washington 98052
FI

D8-4A-87 (hex) OI ELECTRIC CO.,LTD
D84A87 (base 16) OI ELECTRIC CO.,LTD
7-3-16 KIKUNA
YOKOHAMA KANAGAWA-KEN 222-0011
JP

D0-12-42 (hex) BIOS Corporation
D01242 (base 16) BIOS Corporation
2-43-15 Tomigaya
Shibuya-ku TOKYO 151-0063
JP

50-14-B5 (hex) Richfit Information Technology Co., Ltd
5014B5 (base 16) Richfit Information Technology Co., Ltd
Room 1501, Gehua Tower, Suite N0.1, Qinglong lane, Dongcheng District
Beijing Beijing 100007
CN

88-70-8C (hex) Lenovo Mobile Communication Technology Ltd.
88708C (base 16) Lenovo Mobile Communication Technology Ltd.
No.999, Qishan North 2nd Road, Information & Optoelectronics Park,
Xiamen Fujian 361006

CC-F5-38 (hex) 3isysnetworks
CCF538 (base 16) 3isysnetworks
11F-2 No1247 , Jung Jeng RD ,
Taipei Taiwan 0000
TW

B8-BD-79 (hex) TrendPoint Systems
B8BD79
(base 16) TrendPoint Systems
1595 East 6th Street
Corona CA 92879
US

10-12-18 (hex) Korins Inc.
101218 (base 16) Korins Inc.
Rm. 608, Suntechcity Bldg.
Seongnam Gyeonggi 462-725
KR

74-F4-13 (hex) Maxwell Forest
74F413 (base 16) Maxwell Forest
Level 2, 51 Murray Street
Pyrmont NSW 2009
AU

A0-06-27 (hex) NEXPA System
A00627 (base 16) NEXPA System
#105, YBS bldg,227-1 Yongdap-Dong
Seoul ASI/KR/KS013/SEOUL
KR

30-33-35 (hex) Boosty
303335 (base 16) Boosty
40 Princes Street
Ipswich Suffolk IP11RJ
GB

5C-B8-CB (hex) Allis Communications
5CB8CB (base 16) Allis Communications
10F.-3,No.31-1, Lane 169 Kangning St.,
New Taipei City New Taipei City 221
TW

F4-F2-6D (hex) TP-LINK TECHNOLOGIES CO.,LTD.
F4F26D (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen

Guangdong 518057
CN

40-4E-EB (hex) Higher Way Electronic Co., Ltd.
404EEB (base 16) Higher Way Electronic Co., Ltd.
No.15 Jingke E. Rd., Nantun District
Taichung 408
TW

C4-56-FE (hex) Lava International Ltd.
C456FE (base 16) Lava International Ltd.
Room 705, Block A, HengYue Building
Shanghai 518054
CN

C0-EE-FB (hex) OnePlus Tech (Shenzhen) Ltd
C0EEFB (base 16) OnePlus Tech (Shenzhen) Ltd
18F Tairan Building C, Tairan 8th Road Chegongmiao, Futian
Shenzhen Guangdong 518040
CN

34-F0-CA (hex) Shenzhen Linghangyuan Digital Technology Co.,Ltd.
34F0CA (base 16) Shenzhen Linghangyuan Digital Technology Co.,Ltd.
Building R, Linghangyuan Industrial Park, No. 163 Banxuegang Road, Longgang Distrial, Shenzhen, China
Shenzhen Guangdong 518129
CN

BC-9C-C5 (hex) Beijing Huafei Technology Co., Ltd.
BC9CC5 (base 16) Beijing Huafei Technology Co., Ltd.
2 floor, Research building, Guanghua
Pioneer Park, No.18, Anningzhuang East Rd, Haidian District, Beijing, China.
Beijing Beijing 100085
CN

30-42-25 (hex) BURG-WÄCHTER KG
304225 (base 16) BURG-WÄCHTER KG
Altenhofer Weg 15
Wetter NRW 58300
DE

FC-DB-B3 (hex) Murata Manufacturing Co., Ltd.
FCDBB3 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

8C-BF-9D (hex) Shanghai Xinyou Information Technology Ltd. Co.
8CBF9D (base 16) Shanghai Xinyou Information Technology Ltd. Co.

905418 Guiqing Road, Xuhui District,
Shanghai Shanghai 200233
CN

70-72-0D (hex) Lenovo Mobile Communication Technology Ltd.
70720D (base 16) Lenovo Mobile Communication Technology Ltd.
No.999, Qishan North 2nd Road, Information & Optoelectronics Park, Torch Hi-tech Industry Development Zone, Xiamen, P.R.China
Xiamen Fujian 361000
CN

3C-CD-5A (hex) Technische Alternative GmbH
3CCD5A (base 16) Technische
Alternative GmbH
Langestr. 124
Amaliendorf Lower Austria A-3872
AT

7C-E5-24 (hex) Quirky, Inc.
7CE524 (base 16) Quirky, Inc.
606 W 28th Street
New York NY 10001
US

48-D8-55 (hex) Telvent
48D855 (base 16) Telvent
P.I. Alcobendas c/ Valgrande. 6
Alcobendas Madrid 28108
ES

08-F7-28 (hex) GLOBO Multimedia Sp. z o.o. Sp.k.
08F728 (base 16) GLOBO Multimedia Sp. z o.o. Sp.k.
Gryfinska 104
Szczecin Zachodniopomorskie 70-772
PL

50-67-87 (hex) Planet Networks
506787 (base 16) Planet Networks
1 Ivy Crest Ln
Rockaway NJ 07866
US

F4-D2-61 (hex) SEMOCON Co., Ltd
F4D261 (base 16) SEMOCON Co., Ltd
B-19F, Gunpo IT Valley, Dangjeong-dong, 17, Gosan-ro 148beon-gil,
Gunpo-si Gyeonggi-do 435-833
KR

9C-AD-97 (hex) Hon Hai Precision Ind. Co.,Ltd.
9CAD97 (base 16) Hon Hai Precision Ind. Co.,Ltd.
Building D21,No.1, East Zone 1st Road
Chongqing Chongqing 401332
CN

88-29-50
(hex) Netmoon Technology Co., Ltd
882950 (base 16) Netmoon Technology Co., Ltd
2nd Floor, Building No.1, NO.319, Qingpi Avenue
Wenjiang District Chengdu 611130
CN

44-74-6C (hex) Sony Corporation
44746C (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

4C-9E-FF (hex) Zyxel Communications Corporation
4C9EFF (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

94-D6-0E (hex) shenzhen yunmao information technologies co., ltd
94D60E (base 16) shenzhen yunmao information technologies co., ltd
H4-3A, Twelve Oaks Manor, bulong road
shenzhen guanggong 518127
CN

20-6E-9C (hex) Samsung Electronics Co.,Ltd
206E9C (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

6C-2F-2C (hex) Samsung Electronics Co.,Ltd
6C2F2C (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi
Gyeongbuk 730-350
KR

B0-09-D3 (hex) Avizia
B009D3 (base 16) Avizia
12018 Sunrise Valley Drive
Reston VA 20191

US

CC-A0-E5 (hex) DZG Metering GmbH
CCA0E5 (base 16) DZG Metering GmbH
Heidelberger Str. 32
Oranienburg Brandenburg 16515
DE

60-81-2B (hex) Astronics Custom Control Concepts
60812B (base 16) Astronics Custom Control Concepts
6020 S 190th ST
Kent 98032
US

F8-66-01 (hex) Suzhou Chi-tek information technology Co., Ltd
F86601 (base 16) Suzhou Chi-tek information technology Co., Ltd
Rm204C204D, Building A7,
SuZhou Jiangsu 215123
CN

60-C1-CB (hex) Fujian Great Power PLC Equipment Co.,Ltd
60C1CB (base 16) Fujian Great Power PLC Equipment Co.,Ltd
6/F.Bld.34.Zone C.Software Park
Fuzhou Fujian,China 350003
CN

BC-25-F0 (hex) 3D Display Technologies Co., Ltd.
BC25F0 (base 16) 3D Display Technologies Co., Ltd.
4F., No.542-17, Zhongzheng Rd
New
Taipei City 242
TW

C0-3D-46 (hex) Shanghai Sango Network Technology Co.,Ltd
C03D46 (base 16) Shanghai Sango Network Technology Co.,Ltd
No 666 Zhangheng Road
Pudong Shanghai 210203
CN

64-EA-C5 (hex) SiboTech Automation Co., Ltd.
64EAC5 (base 16) SiboTech Automation Co., Ltd.
5th Floor, Bld 3
Shanghai Shanghai 201612
CN

74-DA-38 (hex) Edimax Technology Co. Ltd.
74DA38 (base 16) Edimax Technology Co. Ltd.
No. 278, Xinhu 1st Road

Taipei City Neihu Dist 248
TW

B0-25-AA (hex) Private
B025AA (base 16) Private

D4-B4-3E (hex) Messcomp Datentechnik GmbH
D4B43E (base 16) Messcomp Datentechnik GmbH
Neudecker Str. 11
Wasserburg Bayern 83512
DE

48-D1-8E (hex) Metis Communication Co.,Ltd
48D18E (base 16) Metis Communication Co.,Ltd
#102-805 Digital Empire2
Suwon-Si GyeongGi-Do 443-734
KR

30-F7-D7 (hex) Thread Technology Co., Ltd
30F7D7 (base 16) Thread Technology
Co., Ltd
4F, A Block, CYG, No.2,Mid GaoXin
Shenzhen GuangDong 518055
CN

18-22-7E (hex) Samsung Electronics Co.,Ltd
18227E (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

30-C7-AE (hex) Samsung Electronics Co.,Ltd
30C7AE (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

44-D4-E0 (hex) Sony Corporation
44D4E0 (base 16) Sony Corporation
1-7-1 Konan Minato-ku
Tokyo 108-0075
JP

E4-F4-C6 (hex) NETGEAR
E4F4C6 (base 16) NETGEAR
350 East Plumeria Drive
San Jose CA 95134
US

9C-FB-F1 (hex) MESOMATIC GmbH & Co.KG
9CFBF1 (base 16) MESOMATIC GmbH & Co.KG
Siemensstr. 36
Kernen i.R. 71394
DE

10-27-BE (hex) TVIP
1027BE (base 16) TVIP
190000 ul. Decabristov, h.6 , of.10-
Saint-Petersburg 197227
RU

20-87-AC (hex) AES motomation
2087AC (base 16) AES motomation
48501
Warm Springs Blvd.
Fremont CA 94539
US

94-51-BF (hex) Hyundai ESG
9451BF (base 16) Hyundai ESG
Gangnam-gu
Seoul KOREA, REPUBLIC OF 135-845
KR

F0-15-A0 (hex) KyungDong One Co., Ltd.
F015A0 (base 16) KyungDong One Co., Ltd.
205-38, Gasan digital 1-ro,
Seoul 153-803
KR

6C-2C-06 (hex) OOO NPP Systemotechnika-NN
6C2C06 (base 16) OOO NPP Systemotechnika-NN
Nartova lane, 2v
Nizhny Novgorod Nizhegorodskaya oblast 603057
RU

C4-91-3A (hex) Shenzhen Sanland Electronic Co., ltd.
C4913A (base 16) Shenzhen Sanland Electronic Co., ltd.
3 floor,Block D, Glory Technology Industrial Park,
ShenZhen Guangdong 518116
CN

1C-1C-FD (hex) Dalian Hi-Think Computer Technology, Corp
1C1CFD (base 16) Dalian Hi-Think Computer Technology, Corp
Hi-Think Software Building,No.6 Hi-Tech Street, Qixianling Industrial Base, Hi-Tech Zone, Dalian, China
Dalian LiaoNing 116023

CN

70-62-B8 (hex) D-Link
International
7062B8 (base 16) D-Link International
1 Internal Business Park, #03-12,The Synergy
Singapore Singapore 609917
SG

70-93-83 (hex) Intelligent Optical Network High Tech CO.,LTD.
709383 (base 16) Intelligent Optical Network High Tech CO.,LTD.
Room 205,Building 11,Jia
Changping District Beijing 102200
CN

AC-A9-19 (hex) TrekStor GmbH
ACA919 (base 16) TrekStor GmbH
Kastanienallee 8-10
Lorsch Hessen 64653
DE

90-AE-1B (hex) TP-LINK TECHNOLOGIES CO.,LTD.
90AE1B (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

60-E3-27 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
60E327 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

80-D4-33 (hex) LzLabs
GmbH
80D433 (base 16) LzLabs GmbH
Alte Winterthurerstrasse 14B
Wallisellen Zurich 8304
CH

94-C0-14 (hex) Sorter Sp. j. Konrad Grzeszczyk MichaA, Ziomek
94C014 (base 16) Sorter Sp. j. Konrad Grzeszczyk MichaA, Ziomek
ul. Gdynska 32
PL9482565081 Mazowieckie 26-600
PL

14-56-45 (hex) Savitech Corp.
145645 (base 16) Savitech Corp.

3F, No.309, Guangming 1st Rd.,
Zhubei Hsinchu 30259
TW

90-98-64 (hex) Impex-Sat GmbH&Co KG
909864 (base 16) Impex-Sat GmbH&Co KG
Beim Giesshaus 7
Glueckstadt 25348
DE

DC-E5-78 (hex) Experimental Factory of Scientific Engineering and Special Design Department
DCE578 (base 16) Experimental Factory of Scientific Engineering and Special Design Department
9, Academician Semenov prospect
Chernogolovka Moscow region 142432
RU

38-F0-98 (hex) Vapor Stone Rail Systems
38F098 (base 16) Vapor Stone Rail Systems
10000 Cavendish
Saint-Laurent
Quebec H4M2V1
CA

64-E8-92 (hex) Morio Denki Co., Ltd.
64E892 (base 16) Morio Denki Co., Ltd.
2, Nadooka
Ryugasaki Ibaraki 301-0845
JP

C4-4E-1F (hex) BlueN
C44E1F (base 16) BlueN
121-122 3F
Daegu Korea 700-809
KR

B0-86-9E (hex) Chloride S.r.L
B0869E (base 16) Chloride S.r.L
Via Fornace ,30
CastelGuelfo (Bologna) Italy 40023
IT

D0-57-A1 (hex) Werma Signaltechnik GmbH & Co. KG
D057A1 (base 16) Werma Signaltechnik GmbH & Co. KG
Duerbheimer Strasse
Rietheim-Weilheim 78604
DE

B4-B5-42 (hex) Hubbell Power Systems, Inc.

B4B542 (base 16) Hubbell Power Systems, Inc.
8100 Churchill Ave
Leeds AL 35094
US

54-CD-EE (hex) ShenZhen Apexis Electronic Co.,Ltd
54CDEE (base 16) ShenZhen Apexis Electronic Co.,Ltd
12th floor,Keji BuildiHigng
ShenZhen GuangDong 518057
CN

E8-FC-60 (hex) ELCOM Innovations Private Limited
E8FC60 (base 16) ELCOM Innovations
Private Limited
9TH FLOOR, MERIDIEN COMMERCIAL TOWER
New Delhi 110001
US

88-E8-F8 (hex) YONG TAI ELECTRONIC (DONGGUAN) LTD.
88E8F8 (base 16) YONG TAI ELECTRONIC (DONGGUAN) LTD.
Yuan Shan Bei Managed Region
Dong Guan Guang Dong 523583
CN

C4-C9-19 (hex) Energy Imports Ltd
C4C919 (base 16) Energy Imports Ltd
306a Broadway Ave
Palmerston North Manawatu 4414
NZ

D8-DD-5F (hex) BALMUDA Inc.
D8DD5F (base 16) BALMUDA Inc.
5-1-21 Kyonancho
Musashino Tokyo 180-0023
JP

D8-61-94 (hex) Objetivos y Sevicios de Valor Anadido
D86194 (base 16) Objetivos y Sevicios de Valor Anadido
Calle Monte Esquinza 28, 1ºD
Madrid 28010
ES

C8-D4-29 (hex) Muehlbauer AG
C8D429 (base 16) Muehlbauer AG
Josef-Muhlbauer-Platz 1
Roding Bavaria 93426
DE

D8-65-95 (hex) Toy's Myth Inc.
D86595 (base 16) Toy's Myth Inc.
304, Yongsan-gu Changup-Jiwon center
Seoul 140-240
KR

C0-F7-9D
(hex) Powercode
C0F79D (base 16) Powercode
300 Industrial Dr
Random Lake Wisconsin 53075
US

1C-AB-01 (hex) Innovolt
1CAB01 (base 16) Innovolt
14 Piedmont Center
Atlanta GA 30305
US

B0-DA-00 (hex) CERA ELECTRONIQUE
B0DA00 (base 16) CERA ELECTRONIQUE
PARC D'ACTIVITES
VAL DE REUIL HAUTE NORMANDIE 27100
FR

D8-B6-D6 (hex) Blu Tether Limited
D8B6D6 (base 16) Blu Tether Limited
7600 Leesburg Pike
Falls Church VA 22043
US

58-9C-FC (hex) FreeBSD Foundation
589CFC (base 16) FreeBSD Foundation
P.O. Box 20247
Boulder CO 80308-3247
US

70-2C-1F (hex) Wisol
702C1F (base 16) Wisol
377-3, Gajang-dong, Osan-si
447-210
KR

F0-8A-28 (hex) JIANGSU HENGSION ELECTRONIC S and T CO.,LTD
F08A28 (base 16) JIANGSU HENGSION ELECTRONIC S and T CO.,LTD
4F,Building 3
ChangZhou Jiangsu 213125
CN

28-BB-59 (hex) RNET Technologies, Inc.
28BB59
(base 16) RNET Technologies, Inc.
240. W. Elmwood Dr.
Dayton OHIO 45459-4248
US

E8-EA-6A (hex) StarTech.com
E8EA6A (base 16) StarTech.com
45 Artisans Cres
London Ontario N5V5E9
CA

04-DB-8A (hex) Suntech International Ltd.
04DB8A (base 16) Suntech International Ltd.
Room 605, IT Mirae Tower
Seoul 153-760
KR

90-DF-B7 (hex) s.m.s smart microwave sensors GmbH
90DFB7 (base 16) s.m.s smart microwave sensors GmbH
In den Waashainen 1
Braunschweig NI 38108
DE

08-57-00 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
085700 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

24-A8-7D (hex) Panasonic Automotive Systems Asia Pacific(Thailand)Co.,Ltd.
24A87D (base 16) Panasonic Automotive Systems Asia Pacific(Thailand)Co.,Ltd.
101 Moo 2 Teparak Road ,
Bangsaothong
Samutprakarn 10540
TH

F8-5C-45 (hex) IC Nexus Co. Ltd.
F85C45 (base 16) IC Nexus Co. Ltd.
6F-1, No.3-2 Park Street
Taipei 115
TW

AC-E0-69 (hex) ISAAC Instruments
ACE069 (base 16) ISAAC Instruments
240 Frechette

Chambly Quebec J3L2Z5
CA

30-B5-C2 (hex) TP-LINK TECHNOLOGIES CO.,LTD.
30B5C2 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

E0-7F-53 (hex) TECHBOARD SRL
E07F53 (base 16) TECHBOARD SRL
Via Della Scienza, 50
Modena 41122
IT

48-FE-EA (hex) HOMA B.V.
48FEEA (base 16) HOMA B.V.
P.O. Box 545
Enschede 7500 AM
NL

74-6F-3D (hex) Contec GmbH
746F3D (base 16) Contec GmbH
Oberahrer Straße 9
Sainerholz RP 56244
DE

E8-61-83 (hex) Black Diamond Advanced Technology, LLC
E86183 (base 16) Black Diamond Advanced Technology,
LLC
7450 S. Priest Drive
Tempe AZ 85283
US

38-C9-A9 (hex) SMART High Reliability Solutions, Inc.
38C9A9 (base 16) SMART High Reliability Solutions, Inc.
1325 N Fiesta Blvd., #101
Gilbert AZ 85233
US

8C-DE-99 (hex) Comlab Inc.
8CDE99 (base 16) Comlab Inc.
2300 Leon-Harmel, suite 220
Quebec Quebec G1N 4L2
CA

4C-E1-BB (hex) Zhuhai HiFocus Technology Co., Ltd.
4CE1BB (base 16) Zhuhai HiFocus Technology Co., Ltd.

The second floor of the friend industrial park,
zhuhai guangdong 519080
US

24-26-42 (hex) SHARP Corporation.
242642 (base 16) SHARP Corporation.
22-22,Abeno-ku
Osaka-City Osaka-Prefecture 545-8522
JP

34-DE-34 (hex) zte corporation
34DE34 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

FC-16-07 (hex) Taian Technology(Wuxi) Co.,Ltd.
FC1607 (base 16) Taian Technology(Wuxi) Co.,Ltd.
Gaolang
East Road No.29
Wuxi Jiangsu 214000
CN

AC-02-CA (hex) HI Solutions, Inc.
AC02CA (base 16) HI Solutions, Inc.
4105 Royal Drive
Kennesaw GA 30144
US

8C-56-9D (hex) Imaging Solutions Group
8C569D (base 16) Imaging Solutions Group
1387 Fairport Rd
Fairport NY 14450
US

40-B6-B1 (hex) SUNGSAM CO,.Ltd
40B6B1 (base 16) SUNGSAM CO,.Ltd
SUNGSAM Bldg, 7-1, BAnga-ro 23beon-gil, Bundang-gu
Seongnam-si Gyeonggi-do 463-829
KR

DC-05-2F (hex) National Products Inc.
DC052F (base 16) National Products Inc.
8410 Dallas Ave S.
Seattle WA 98108
US

00-8B-43 (hex) RFTECH

008B43 (base 16) RFTECH
Cheoin-gu
Yongin Gyeonggi 449-871
KR

8C-41-F2 (hex) RDA Technologies Ltd.
8C41F2 (base 16) RDA Technologies Ltd.
Suite 2203, CC Wu Building,
WanChai Hong Kong 00000
HK

E0-36-E3 (hex) Stage One International Co., Ltd.
E036E3 (base 16) Stage One International
Co., Ltd.
Fl. 5., No. 10., Lane 321, Yangguang St.,
Taipei City 11491
TW

4C-0D-EE (hex) JABIL CIRCUIT (SHANGHAI) LTD.
4C0DEE (base 16) JABIL CIRCUIT (SHANGHAI) LTD.
FL5-UNIT A2 NO 1528 GUMEI ROAD
SHANGHAI 200233
CN

D0-63-4D (hex) Meiko Maschinenbau GmbH & Co. KG
D0634D (base 16) Meiko Maschinenbau GmbH & Co. KG
Englerstraße 3
Offenburg 77652
DE

D0-BD-01 (hex) DS International
D0BD01 (base 16) DS International
806ho, ACE HITECH21 B/D
Busan Busan 612-020
KR

FC-27-A2 (hex) TRANS ELECTRIC CO., LTD.
FC27A2 (base 16) TRANS ELECTRIC CO., LTD.
771,Sec.2 Chungsan Rd,Huatang
Changhua Taiwan 503
TW

FC-BB-A1 (hex) Shenzhen Minicreate Technology Co.,Ltd
FCBBA1 (base 16) Shenzhen Minicreate Technology Co.,Ltd
5/F.,5th,Building,Animation Park,Yuehai Road
Shenzhen Guangdong 518066
CN

B0-98-9F (hex) LG CNS
B0989F (base 16) LG CNS
53-94 Jinwisandan-ro,
Jinwuy-Myun
Pyungtaek-City Kyunggi-Do 451-862
KR

EC-71-DB (hex) Reolink Innovation Limited
EC71DB (base 16) Reolink Innovation Limited
705,7/F,FA YUEN COMMERCIAL BUILDING,75-77 FA YUEN STREET
MONG KOK KL 999077
CN

A4-09-CB (hex) Alfred Kaercher GmbH & Co KG
A409CB (base 16) Alfred Kaercher GmbH & Co KG
Alfred Kaercher Gmbh & Co KG
Winnenden Baden-Wuerttemberg 71364
DE

10-33-78 (hex) FLECTRON Co., LTD
103378 (base 16) FLECTRON Co., LTD
A-625, Sigma2, Tancheonsang-ro 164
Seongnam-si Gyeonggi-do 463-741
KR

F0-D3-A7 (hex) CobaltRay Co., Ltd
F0D3A7 (base 16) CobaltRay Co., Ltd
Room 409,Humanteco Building,#281-16
Seoul 133120
KR

38-A5-3C (hex) COMECER Netherlands
38A53C (base 16) COMECER Netherlands
Madame Curieweg 1
Joure Friesland 8500 AC
NL

5C-FF-FF (hex) Shenzhen Kezhonglong Optoelectronic Technology Co., Ltd
5CFFFF (base 16) Shenzhen Kezhonglong
Optoelectronic Technology Co., Ltd
3/F, B5 Building, Xinfu Industrial Park, Heping Village
Shenzhen, Guangdong 518101
US

84-FE-9E (hex) RTC Industries, Inc.
84FE9E (base 16) RTC Industries, Inc.
2800 Golf Road
Rolling Meadows IL 60008

US

FC-4B-1C (hex) INTERSENSOR S.R.L.
FC4B1C (base 16) INTERSENSOR S.R.L.
101 Bd. Iuliu Maniu str., Bl. A2, Sc. 2, #47
Bucharest 061094
RO

40-30-67 (hex) Conlog (Pty) Ltd
403067 (base 16) Conlog (Pty) Ltd
270 Felix Dlamini Road
Durban Kwa-zulu Natal 4000
ZA

C0-F1-C4 (hex) Pacidal Corporation Ltd.
C0F1C4 (base 16) Pacidal Corporation Ltd.
3F., No. 11, Aly 3, Ln. 123, Sec. 3 Ren'ai Rd.
Taipei City 106
TW

68-69-2E (hex) Zycoo Co.,Ltd
68692E (base 16) Zycoo Co.,Ltd
F7,B7,Tianfu Software park
Chengdu Sichuan 610000
CN

D4-68-67 (hex) Neoventus Design Group
D46867 (base 16) Neoventus Design Group
2350 Commonwealth
Dr, Suite E
Charlottesville VA 22901
US

2C-18-AE (hex) Trend Electronics Co., Ltd.
2C18AE (base 16) Trend Electronics Co., Ltd.
4F-3, No 17, Lane 77, Sec. 2
Taipei Taiwan 10446
TW

08-52-40 (hex) EbV Elektronikbau- und Vertriebs GmbH
085240 (base 16) EbV Elektronikbau- und Vertriebs GmbH
Heisterner Weg 8 - 12
Burbach Nordrhein-Westfalen 57299
DE

B8-C1-A2 (hex) Dragon Path Technologies Co., Limited
B8C1A2 (base 16) Dragon Path Technologies Co., Limited
12/F., San Toi Building,

Central Hong Kong
HK

80-F2-5E (hex) Kyynel
80F25E (base 16) Kyynel
Pirttikuja 3
Oulu 90450
FI

F8-1C-E5 (hex) Telefonbau Behnke GmbH
F81CE5 (base 16) Telefonbau Behnke GmbH
Robert-Jungk-Str. 3
Kirkel Saarland 66459
DE

14-ED-A5 (hex) Wachter GmbH Sicherheitssysteme
14EDA5 (base 16) Wachter GmbH Sicherheitssysteme
Alte Ricklinger Str. 3
Hannover Garbsen 30823
DE

60-03-47
(hex) Billion Electric Co. Ltd.
600347 (base 16) Billion Electric Co. Ltd.
8F., No.192, Sec. 2, Zhongxing Rd.,
New Taipei City, 231
TW

88-91-66 (hex) Viewcooper Corp.
889166 (base 16) Viewcooper Corp.
Room 1061, A,Seven Block, No.128 Huayuan Rd
SHANGHAI 200083
CN

50-1A-C5 (hex) Microsoft
501AC5 (base 16) Microsoft
1 Microsoft Way
Redmond Washington 98052
US

68-19-3F (hex) Digital Airways
68193F (base 16) Digital Airways
5, Place Jean SIARD
ARGENTAN NORMANDY 61200
FR

B4-75-0E (hex) Belkin International Inc.
B4750E (base 16) Belkin International Inc.

12045 East Waterfront Drive
Playa Vista Ca. 90094
US

94-10-3E (hex) Belkin International Inc.
94103E (base 16) Belkin International Inc.
12045 East Waterfront Drive
Playa Vista Ca. 90094
US

7C-B7-33 (hex) ASKEY COMPUTER CORP
7CB733 (base 16) ASKEY COMPUTER CORP
10F,No.119,JIANKANG
RD,ZHONGHE DIST
NEW TAIPEI TAIWAN 23585
TW

A0-E5-E9 (hex) enimai Inc
A0E5E9 (base 16) enimai Inc
701 Villa St
Mountain View California 94041
US

9C-21-6A (hex) TP-LINK TECHNOLOGIES CO.,LTD.
9C216A (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

F8-62-AA (hex) xn systems
F862AA (base 16) xn systems
#917, Worldmerdian 2nd
Seoul 153759
KR

10-7B-EF (hex) Zyxel Communications Corporation
107BEF (base 16) Zyxel Communications Corporation
No. 6 Innovation Road II, Science Park
Hsichu Taiwan 300
TW

B4-62-AD (hex) Elysia Germany GmbH
B462AD (base 16) Elysia Germany GmbH
Benzstr.4
Straubenhardt Baden-Wuerttemberg 75334
DE

34-5C-40 (hex) Cargt Holdings LLC

345C40 (base 16) Cargt Holdings LLC
8820 Hillside Dr
Lenexa KANSAS (KS) 66227
US

44-EE-30
(hex) Budelmann Elektronik GmbH
44EE30 (base 16) Budelmann Elektronik GmbH
Von-Renesse-Weg 60
Muenster North Rhine-Westphalia 48163
DE

FC-1E-16 (hex) IPEVO corp
FC1E16 (base 16) IPEVO corp
3F,No.53,Bo-ai Road,Taipei 100,Taiwan
Taipei 10044
TW

E8-F2-26 (hex) MILLSON CUSTOM SOLUTIONS INC.
E8F226 (base 16) MILLSON CUSTOM SOLUTIONS INC.
2036 COLUMBIA STREET
VANCOUVER BRITISH COLUMBIA V5Y 3E1
CA

3C-6E-63 (hex) Mitron OY
3C6E63 (base 16) Mitron OY
Yrittajankaari 19
FORSSA Kanta-Hame 30420
FI

A4-05-9E (hex) STA Infinity LLP
A4059E (base 16) STA Infinity LLP
WINNINGTON HOUSE
London N12 0DR
GB

30-51-F8 (hex) BYK-Gardner GmbH
3051F8 (base 16) BYK-Gardner GmbH
Lausitzer Strasse 8
Geretsried Bavarian 82538
DE

50-C0-06 (hex) Carmanah Signs
50C006 (base 16) Carmanah Signs
#5 6025 12 Street SE
Calgary Alberta T2H2K1
CA

04-CB-1D
(hex) Traka plc
04CB1D (base 16) Traka plc
30 Stilebrook Road
Bucks Buckinghamshire MK46 5EA
GB

A4-E9-A3 (hex) Honest Technology Co., Ltd
A4E9A3 (base 16) Honest Technology Co., Ltd
5F, KyungDong Bldg. 906-5,
Daejeon 305-330
KR

E8-D4-E0 (hex) Beijing BenyWave Technology Co., Ltd.
E8D4E0 (base 16) Beijing BenyWave Technology Co., Ltd.
No.55, Jiachuang Road, Taihu Town
Beijing 101111
CN

FC-01-9E (hex) VIEVU
FC019E (base 16) VIEVU
105 W. John St
Seattle WA 98119
US

64-21-84 (hex) Nippon Denki Kagaku Co.,LTD
642184 (base 16) Nippon Denki Kagaku Co.,LTD
Nishino Gotochou 18
Kyoto City Kyoto Pref 607-8356
JP

CC-4A-E1 (hex) fourtec -Fourier Technologies
CC4AE1 (base 16) fourtec -Fourier Technologies
16 Hamelacha St. POB 11681
Rosh Ha'ayin 48091
IL

24-64-EF (hex) CYG SUNRI CO.,LTD.
2464EF (base 16) CYG SUNRI CO.,LTD.
No. 3, Langshan 1st Road,
North Area of Hi-Tech Industrial Park
Shenzhen Guangdong 518057
CN

D8-27-0C (hex) MaxTronic International Co., Ltd.
D8270C (base 16) MaxTronic International Co., Ltd.
4F., No.529, Zhongzheng Rd., Xindian Dist.
New Taipei City Taiwan 231

TW

B4-CC-E9 (hex) PROSYST
B4CCE9 (base 16) PROSYST
2C Rue de l' EPINOY
TEMPLEMARS 59175
FR

A0-BF-50 (hex) S.C. ADD-PRODUCTION S.R.L.
A0BF50 (base 16) S.C. ADD-PRODUCTION S.R.L.
36, Dragomirna str.
Chisinau MD-2008
MD

AC-50-36 (hex) Pi-Coral Inc
AC5036 (base 16) Pi-Coral Inc
2130 Gold St
San Jose CA 95002-1177
US

C4-D6-55 (hex) Tercel technology co.,ltd
C4D655 (base 16) Tercel technology co.,ltd
Huafa South Road, Futian District,
SHENZHEN GUANGDONG 518000
CN

58-BD-F9 (hex) Sigrand
58BDF9 (base 16) Sigrand
UNIT 602 6/F, Causeway Bay Comm Bldg,
Hong Kong 999077
HK

C0-C6-87 (hex) Cisco SPVTG
C0C687
(base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

C4-93-80 (hex) Speedytel technology
C49380 (base 16) Speedytel technology
ROOM 1103,HANG SENG MONGKOK BUILDING,677 NATHAN ROAD,MONGKOK,KOWLOON
HONG KONG HONG KONG
HK

00-7D-FA (hex) Volkswagen Group of America
007DFA (base 16) Volkswagen Group of America
3800 Hamlin Rd

Auburn Hills MI 48326
US

E0-AE-B2 (hex) Bender GmbH & Co.KG
E0AEB2 (base 16) Bender GmbH & Co.KG
Londorfer Straße 65
Grünberg Hessen 35305
DE

F8-4A-7F (hex) Innometriks Inc
F84A7F (base 16) Innometriks Inc
3654 Ocean Ranch Blvd
Oceanside Ca 92056
US

0C-9B-13 (hex) Shanghai Magic Mobile Telecommunication Co.Ltd.
0C9B13 (base 16) Shanghai Magic Mobile Telecommunication Co.Ltd.
B7 parts, second floor
Waigaoqiao Free Trade Zone Shanghai 200131
CN

20-18-0E (hex) Shenzhen Sunchip Technology Co., Ltd
20180E (base
16) Shenzhen Sunchip Technology Co., Ltd
Room 818-831, Building B1, Mingyou Purchasing Center, Bao'an District, Shenzhen, China
Shenzhen Guangdong 518101
CN

80-B2-19 (hex) ELEKTRON TECHNOLOGY UK LIMITED
80B219 (base 16) ELEKTRON TECHNOLOGY UK LIMITED
BROERS BUILDING,
CAMBRIDGE CAMBS CB3 0FA
US

28-94-AF (hex) Samhwa Telecom
2894AF (base 16) Samhwa Telecom
293-7, Doksan-dong
Seoul Seoul 153-813
KR

74-A4-B5 (hex) Powerleader Science and Technology Co. Ltd.
74A4B5 (base 16) Powerleader Science and Technology Co. Ltd.
Powerleader Technology Park, #3 Guanyi Rd.
Shenzhen Guangdong 518110
CN

90-9F-43 (hex) Accutron Instruments Inc.
909F43 (base 16) Accutron Instruments Inc.

11 Mary Street
Sudbury Ontario P3C1B4
CA

2C-71-55 (hex) HiveMotion
2C7155 (base 16) HiveMotion
1806, STX-V Tower
Seoul 153-803
KR

50-76-91 (hex) Tekpea, Inc.
507691 (base 16) Tekpea,
Inc.
2225 East Bayshore Road
Palo Alto California 94303
US

94-BF-1E (hex) eflow Inc. / Smart Device Planning and Development Division
94BF1E (base 16) eflow Inc. / Smart Device Planning and Development Division
Ryoka-Yoyogi building 3F
Shibuya-Ku TOKYO 151-0051
JP

E8-51-6E (hex) TSMART Inc.
E8516E (base 16) TSMART Inc.
The-O-valley 306,
Anyang-si Gyeonggi-do 431-080
KR

AC-22-0B (hex) ASUSTek COMPUTER INC.
AC220B (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

B8-87-A8 (hex) Step Ahead Innovations Inc.
B887A8 (base 16) Step Ahead Innovations Inc.
20 Wintersport Ln.
Williston VT 05495
US

1C-86-AD (hex) MCT CO., LTD.
1C86AD (base 16) MCT CO., LTD.
C-815/816, Garden5 Works, 52 Chungmin-ro
Songpa-gu Seoul 138-961
KR

28-D9-3E (hex) Telecor Inc.

28D93E (base 16) Telecor Inc.
6205 Kestrel Road
Mississauga
Ontario L5T 2A1
CA

64-0B-4A (hex) Digital Telecom Technology Limited
640B4A (base 16) Digital Telecom Technology Limited
1708 Nan Fung Tower,
00852
US

8C-4B-59 (hex) 3D Imaging & Simulations Corp
8C4B59 (base 16) 3D Imaging & Simulations Corp
815, Timnip-Dong, Yuseong-Gu
Daejeon 305510
KR

88-35-4C (hex) Transics
88354C (base 16) Transics
p/a Ter Waarde 91
Ieper 8900
BE

70-F1-76 (hex) Data Modul AG
70F176 (base 16) Data Modul AG
Landsberger Str. 322
Munich Bavaria 80687
DE

5C-33-27 (hex) Spazio Italia srl
5C3327 (base 16) Spazio Italia srl
Via G.Galilei, 50
Padenghe sul Garda BS 25080
IT

E0-A1-98 (hex) NOJA Power Switchgear Pty Ltd
E0A198 (base 16) NOJA Power Switchgear Pty Ltd
16 Archimedes Place
Murarrie QLD 4172
AU

B8-47-C6 (hex) SanJet Technology Corp.
B847C6 (base 16) SanJet Technology Corp.
4F,No2,Li-Hsin Rd., 6,
Hsinchu
30078
TW

28-F5-32 (hex) ADD-Engineering BV
28F532 (base 16) ADD-Engineering BV
P.O. BOX 5893
ROTTERDAM ZH 3008 AW
NL

94-40-A2 (hex) Anywave Communication Technologies, Inc.
9440A2 (base 16) Anywave Communication Technologies, Inc.
300 Knightsbridge Parkway, Suite 150
Lincolnshire IL 60069
US

38-42-33 (hex) Wildeboer Bauteile GmbH
384233 (base 16) Wildeboer Bauteile GmbH
Marker Weg 11
Weener Niedersachsen 26826
US

C0-34-B4 (hex) Gigastone Corporation
C034B4 (base 16) Gigastone Corporation
12F.NO 480. Rueiguang Rd.
Taipei 11492
TW

E4-77-6B (hex) AARTESYS AG
E4776B (base 16) AARTESYS AG
Bahnhofplatz 7
Biel Bern CH-2501
CH

30-F3-1D (hex) zte corporation
30F31D (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

A0-EC-80 (hex) zte corporation
A0EC80 (base 16) zte corporation
12/F.,zte
R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

28-DB-81 (hex) Shanghai Guao Electronic Technology Co., Ltd
28DB81 (base 16) Shanghai Guao Electronic Technology Co., Ltd
No.6, Alley 1225 TongPu Road,
Shanghai 200333

CN

38-06-B4 (hex) A.D.C. GmbH
3806B4 (base 16) A.D.C. GmbH
Peter-Dornier-Str. 10
Lindau 88131
DE

B8-24-1A (hex) SWEDA INFORMATICA LTDA
B8241A (base 16) SWEDA INFORMATICA LTDA
RUA DONA BRIGIDA, 713
SAO PAULO SP 04111-081
BR

A0-B1-00 (hex) ShenZhen Cando Electronics Co.,Ltd
A0B100 (base 16) ShenZhen Cando Electronics Co.,Ltd
Building A, Dagang Industrial Zone, Changzhen Community
Shenzhen City Guangdong 518132
CN

20-1D-03 (hex) Elatec GmbH
201D03 (base 16) Elatec GmbH
Lilienthalstr. 3
Puchheim Bayern 82178
DE

C0-6C-6D (hex) MagneMotion, Inc.
C06C6D (base 16) MagneMotion, Inc.
139 Barnum Road
Devens
Massachusetts 01434
US

F8-35-DD (hex) Gemtek Technology Co., Ltd.
F835DD (base 16) Gemtek Technology Co., Ltd.
No. 1 Jen Ai Road Hsinchu Industrial Park Hukou, Hsinchu 30352 TAIWAN, REPUBLIC OF CHINA
Hsinchu TAIWAN 30352
TW

D8-B0-4C (hex) Jinan USR IOT Technology Co., Ltd.
D8B04C (base 16) Jinan USR IOT Technology Co., Ltd.
#1-523, Huizhan Guoji Cheng, Gaoxin Qu
JINAN SHANDONG 250101
CN

E8-51-9D (hex) Yeonhab Precision Co.,LTD
E8519D (base 16) Yeonhab Precision Co.,LTD
219-27, Haksusosa-Gil, Mokcheon-Eup

Cheonan Chungcheongnamdo 330-844
KR

1C-4A-F7 (hex) AMON INC
1C4AF7 (base 16) AMON INC
HANJUN BLDG 4/F, SHINGILDONG 110-4
SEOUL 150839
KR

0C-C8-1F (hex) Summer Infant, Inc.
0CC81F (base 16) Summer Infant, Inc.
1275 Park East Drive
Woonsocket Rhode Island 02895
US

A8-FB-70 (hex) WiseSec L.t.d
A8FB70 (base 16) WiseSec L.t.d
145 yaffo ST.
Haifa Israel
37503
IL

E4-81-B3 (hex) Shenzhen ACT Industrial Co.,Ltd.
E481B3 (base 16) Shenzhen ACT Industrial Co.,Ltd.
NO.5 B/D,BEISHAN INDUSTRIAL PARK,BEISHAN R/D,
Shenzhen Guangdong 518083
CN

CC-E8-AC (hex) SOYEA Technology Co.,Ltd.
CCE8AC (base 16) SOYEA Technology Co.,Ltd.
STB department,Floor 4,Building 11 south
hangzhou zhejiang 310007
CN

30-3E-AD (hex) Sonavox Canada Inc
303EAD (base 16) Sonavox Canada Inc
81 Zenway Blvd #25
Woodbridge Ontario L4S0S5
CA

CC-04-B4 (hex) Select Comfort
CC04B4 (base 16) Select Comfort
9800 59th Ave N
Minneapolis MN 55442
US

5C-15-E1 (hex) AIDC TECHNOLOGY (S) PTE LTD
5C15E1 (base 16) AIDC TECHNOLOGY (S) PTE LTD

NO.1 GOLDHILL PLAZA #03-21
SINGAPORE 308899
SG

B8-CD-93 (hex) Penetek, Inc
B8CD93 (base 16) Penetek, Inc
6F, No.18, Wuqun 7th Rd, Wugu Dist
New Taipei City 248
TW

DC-57-26 (hex) Power-One
DC5726 (base
16) Power-One
Via San Girgio 642
Terranuova Arezzo 52028
IT

F8-DA-DF (hex) EcoTech, Inc.
F8DADF (base 16) EcoTech, Inc.
999 Postal Road
Allentown PA 18109
US

30-AE-7B (hex) Deqing Dusun Electron CO., LTD
30AE7B (base 16) Deqing Dusun Electron CO., LTD
No. 640 FengQing Street, Deqing
Huzhou Zhejiang 313200
CN

68-EC-62 (hex) YODO Technology Corp. Ltd.
68EC62 (base 16) YODO Technology Corp. Ltd.
8F., No.168-1, Liancheng Rd
Taipei City 235
TW

1C-76-CA (hex) Terasic Technologies Inc.
1C76CA (base 16) Terasic Technologies Inc.
9F., No.176, Sec.2, Gongdao 5th Rd
Hsinchu City 30070
TW

B8-C8-55 (hex) Shanghai GBCOM Communication Technology Co.,Ltd.
B8C855 (base 16) Shanghai GBCOM Communication Technology Co.,Ltd.
Room 602, Building 6, No.
Shanghai 200241
CN

78-30-3B (hex) Stephen Technologies Co.,Limited

78303B (base 16) Stephen Technologies Co.,Limited
5/F,
Building NO.1, TongXin Industry Zone
Shenzhen Guangdong 518115
CN

40-BC-73 (hex) Cronoplast S.L.
40BC73 (base 16) Cronoplast S.L.
Pol.Ind.S.Ermengol II -
ABRERA BARCELONA 08630
ES

40-07-C0 (hex) Railtec Systems GmbH
4007C0 (base 16) Railtec Systems GmbH
Sonnenbergstr. 19
Hergiswil Nidwalden 6052
CH

84-E4-D9 (hex) Shenzhen NEED technology Ltd.
84E4D9 (base 16) Shenzhen NEED technology Ltd.
Room 581 ,Jinda technology center,No.8, Kefeng road,
Shenzhen Guangdong 518057
CN

78-4B-08 (hex) f.robotics acquisitions ltd
784B08 (base 16) f.robotics acquisitions ltd
Yevulim, Industrial Zone
Pardesia Hasharon 42815
IL

B0-80-8C (hex) Laser Light Engines
B0808C (base 16) Laser Light Engines
8C Industrial Way
Salem New Hamshire 03079
US

E8-80-D8 (hex) GNTEK Electronics Co.,Ltd.
E880D8 (base 16) GNTEK Electronics Co.,Ltd.
Suzhou Industrial Park
Suzhou
Jiangsu 215021
CN

D8-66-C6 (hex) Shenzhen Daystar Technology Co.,ltd
D866C6 (base 16) Shenzhen Daystar Technology Co.,ltd
The 5th Floor,#4 Building, Minxing Industria Zone
Shenzhen Guangdong 518131
CN

D0-0E-A4 (hex) Porsche Cars North America
D00EA4 (base 16) Porsche Cars North America
980 Hammond Drive
Atlanta GA 30328
US

18-88-57 (hex) Beijing Jinhong Xi-Dian Information Technology Corp.
188857 (base 16) Beijing Jinhong Xi-Dian Information Technology Corp.
4th -5th Floor, 1# Building NO.1 Zhonghe Road
Beijing 100070
CN

88-89-64 (hex) GSI Electronics Inc.
888964 (base 16) GSI Electronics Inc.
5200 Armand-Frappier
St-Hubert Quebec J3Z 1G5
CA

0C-11-05 (hex) AKUVOX (XIAMEN) NETWORKS CO., LTD
0C1105 (base 16) AKUVOX (XIAMEN) NETWORKS CO., LTD
Suite 201-15, 31 WangHai Rd
Xiamen Fujian 361008
CN

5C-22-C4 (hex) DAE EUN ELETRONICS CO., LTD
5C22C4 (base 16) DAE
EUN ELETRONICS CO., LTD
1029 Hokye-Dong, Dongan-Goo
Anyang-Shi Kyongki-Do 431-080
KR

6C-8B-2F (hex) zte corporation
6C8B2F (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

CC-1A-FA (hex) zte corporation
CC1AFA (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

8C-5A-F0 (hex) Exeltech Solar Products
8C5AF0 (base 16) Exeltech Solar Products
3001 Northern Cross Blvd #361
Fort Worth TX 76137

US

D8-DC-E9 (hex) Kunshan Erlab ductless filtration system Co.,Ltd
D8DCE9 (base 16) Kunshan Erlab ductless filtration system Co.,Ltd
NO.100 Liu Shi Jin Road
Kunshan Jiangsu 215300
CN

DC-D5-2A (hex) Sunny Heart Limited
DCD52A (base 16) Sunny Heart Limited
Rm. 1516, 15/F, Hewlett Center
Kwun Tong Kowloon 852
HK

6C-61-26 (hex) Rinicom Holdings
6C6126
(base 16) Rinicom Holdings
Riverway House
Lancaster Lancashire LA1 2RX
GB

A4-D3-B5 (hex) GLITEL Stropkov, s.r.o.
A4D3B5 (base 16) GLITEL Stropkov, s.r.o.
Cintorinska 557/73
Stropkov 09101
SK

70-82-0E (hex) as electronics GmbH
70820E (base 16) as electronics GmbH
Kantstraße 10
Großbettlingen Baden -Württemberg 72663
DE

44-61-9C (hex) FONsystem co. ltd.
44619C (base 16) FONsystem co. ltd.
3F annex of Venture support center
GwangJu 500-706
KR

88-68-5C (hex) Shenzhen ChuangDao & Perpetual Eternal Technology Co.,Ltd
88685C (base 16) Shenzhen ChuangDao & Perpetual Eternal Technology Co.,Ltd
Area c,2/F,Building 1, BaoAn foreign trade industrial zone
BaoAn District, Shenzhen Guangdong province 518100
CN

10-28-31 (hex) Morion Inc.
102831 (base 16) Morion Inc.
Shosse Kosmonavtov, 111

Perm Permsky Krai 614990
US

F4-99-AC (hex) WEBER Schraubautomaten GmbH
F499AC
(base 16) WEBER Schraubautomaten GmbH
Hans-Urmiller-Ring 56
Wolfratshausen Bayern 82515
DE

D4-3A-65 (hex) IGRS Engineering Lab Ltd.
D43A65 (base 16) IGRS Engineering Lab Ltd.
8F,Taipeng Mansion
Haidian District Beijing 10000
CN

7C-D8-44 (hex) Enmotus Inc
7CD844 (base 16) Enmotus Inc
65 Enterprise
Aliso Viejo CA 92656
US

B4-FE-8C (hex) Centro Sicurezza Italia SpA
B4FE8C (base 16) Centro Sicurezza Italia SpA
Via Venaria 28-30
Alpignano Torino 10091
IT

2C-F2-03 (hex) EMKO ELEKTRONIK SAN VE TIC AS
2CF203 (base 16) EMKO ELEKTRONIK SAN VE TIC AS
DOSAB, KARANFIL SOK, NO:6
BURSA 16369
TR

F8-FE-A8 (hex) Technico Japan Corporation
F8FEA8 (base 16) Technico Japan Corporation
AM Building 9F, 2-5-3,
Tokyo 160-0022
JP

18-00-DB (hex) Fitbit Inc.
1800DB (base 16) Fitbit Inc.
150 Spear St Ste 200
San Francisco CA 94105
US

78-A1-06 (hex) TP-LINK

TECHNOLOGIES CO.,LTD.
78A106 (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

D0-50-99 (hex) ASRock Incorporation
D05099 (base 16) ASRock Incorporation
2F., No.37, Sec. 2, Jhongyang S. Rd.
Taipei 112
US

A4-9E-DB (hex) AutoCrib, Inc.
A49EDB (base 16) AutoCrib, Inc.
3011 S. Croddy Way
Santa Ana CA 92704
US

CC-0D-EC (hex) Cisco SPVTG
CC0DEC (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

40-E7-30 (hex) DEY Storage Systems, Inc.
40E730 (base 16) DEY Storage Systems, Inc.
215 South B Street
San Mateo CA 94401
US

68-B0-94 (hex) INESA ELECTRON CO.,LTD
68B094 (base 16) INESA ELECTRON CO.,LTD
5F, NO.168, Tianlin Road
Shanghai 200233
CN

D8-29-16 (hex) Ascent Communication Technology
D82916 (base 16) Ascent
Communication Technology
13/F., Shum Tower
Hong Kong 9999
HK

A0-73-FC (hex) Rancore Technologies Private Limited
A073FC (base 16) Rancore Technologies Private Limited
5th Floor, Court House
Dhobi Talao Maharashtra 400 002
IN

44-F8-49 (hex) Union Pacific Railroad
44F849 (base 16) Union Pacific Railroad
1400 Douglas St. STOP 0610
Omaha NE 68179
US

64-53-5D (hex) Frauscher Sensortechnik
64535D (base 16) Frauscher Sensortechnik
Gewerbestraße 1
St. Marienkirchen Upper Austria 4774
US

0C-72-2C (hex) TP-LINK TECHNOLOGIES CO.,LTD.
0C722C (base 16) TP-LINK TECHNOLOGIES CO.,LTD.
Building 24(floors 1,3,4,5)and 28(floors 1-4)Central Science and Technology Park,Shennan Road,Nanshan
Shenzhen Guangdong 518057
CN

48-BE-2D (hex) Symanitron
48BE2D (base 16) Symanitron
Ap.103, 17 Rudnevka str.,111674
Moscow
RU

F0-23-29 (hex) SHOWA DENKI CO.,LTD.
F02329 (base 16) SHOWA
DENKI CO.,LTD.
1-25
Daito-city Osaka 574-0052
JP

54-61-EA (hex) Zaplox AB
5461EA (base 16) Zaplox AB
Scheelev
Lund Sk 22370
SE

D0-8B-7E (hex) Passif Semiconductor
D08B7E (base 16) Passif Semiconductor
400 S. El Camino Real Suite 250
San Mateo California 94402
US

04-58-6F (hex) Sichuan Whayer information industry Co.,LTD
04586F (base 16) Sichuan Whayer information industry Co.,LTD
Layer 16,Building 10, C Area
Chengdu City 610041

CN

2C-7B-5A (hex) Milper Ltd
2C7B5A (base 16) Milper Ltd
32 Shaham St.
Petach Tikva 49250
IL

18-5A-E8 (hex) Zenotech.Co.,Ltd
185AE8 (base 16) Zenotech.Co.,Ltd
E-503, BundangTechno Park, Yatap-dong
Seongnam 463-760
KR

C4-7D-CC (hex) Zebra Technologies Inc
C47DCC (base 16) Zebra Technologies Inc
475 Half Day Road
Lincolnshire IL 60069
US

E0-AE-ED (hex) LOENK
E0AEED (base 16) LOENK
F9, Cheongdam
Venture Plaza
SEOUL 135-951
KR

E4-92-E7 (hex) Gridlink Tech. Co.,Ltd.
E492E7 (base 16) Gridlink Tech. Co.,Ltd.
Room No. 619, No. 108 Jiang Bin Dong Road
Fuzhou Fujian 350015
CN

D4-BF-2D (hex) SE Controls Asia Pacific Ltd
D4BF2D (base 16) SE Controls Asia Pacific Ltd
Unit 301, 3/F, Hung To Centre,
Kwun Tong Kowloon
HK

9C-E6-35 (hex) Nintendo Co., Ltd.
9CE635 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

60-A4-4C (hex) ASUSTek COMPUTER INC.
60A44C (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan

Taipei Taiwan 112
TW

CC-04-7C (hex) G-WAY Microwave
CC047C (base 16) G-WAY Microwave
38 Leuning Street
South Hackensack New Jersey 07078
US

50-AB-BF (hex) Hoseo Telecom
50ABBF (base 16) Hoseo Telecom
701 ACE Techno Tower 684-1
Seoul 157-721
KR

3C-6F-F7 (hex) EnTek Systems,
Inc.
3C6FF7 (base 16) EnTek Systems, Inc.
562 Starlight Dr.
Sautee Nacoochee GA 30571
US

1C-37-BF (hex) Cloudium Systems Ltd.
1C37BF (base 16) Cloudium Systems Ltd.
Hartnett Centre
Limerick 00
IE

B4-98-42 (hex) zte corporation
B49842 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

70-54-D2 (hex) PEGATRON CORPORATION
7054D2 (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District
Taipei City Taiwan 112
TW

98-20-8E (hex) Definium Technologies
98208E (base 16) Definium Technologies
34 Fairthorne Road
Launceston Tasmania 7250
AU

70-4A-E4 (hex) Rinstrum Pty Ltd
704AE4 (base 16) Rinstrum Pty Ltd

41 Success St
Acacia Ridge QLD 4110
AU

08-3A-B8 (hex) Shinoda Plasma Co., Ltd.
083AB8 (base 16) Shinoda Plasma Co., Ltd.
4-6-7, Minatojima Minamimachi, Chuo-ku
Kobe Hyogo 6500047
JP

A0-DD-97
(hex) PolarLink Technologies, Ltd
A0DD97 (base 16) PolarLink Technologies, Ltd
6FL 352, Zhonghua 1st Rd. Kaohsiung 804 Taiwan
Kaohsiung Taiwan 804
TW

E0-D9-A2 (hex) Hippih aps
E0D9A2 (base 16) Hippih aps
Sceince Park Scion
Lyngby 2800
DK

FC-06-47 (hex) Cortland Research, LLC
FC0647 (base 16) Cortland Research, LLC
12 S Main St., Ste 207
Homer NY 13077
US

FC-9F-AE (hex) Fidus Systems Inc
FC9FAE (base 16) Fidus Systems Inc
35 Fitzgerald Road
Ottawa Ontario K2H 1E6
CA

68-1E-8B (hex) InfoSight Corporation
681E8B (base 16) InfoSight Corporation
20700 US Hwy 23
Chillicothe Ohio 45601
US

70-76-DD (hex) OxyGuard Internation A/S
7076DD (base 16) OxyGuard Internation A/S
Farum Gydevej 64
Farum DK-3520
DK

E8-9A-FF (hex) Fujian LANDI Commercial Equipment Co.,Ltd

E89AFF (base 16) Fujian LANDI Commercial Equipment Co.,Ltd
Building
17,the 1st Section ,Fuzhou Software Park
No.89 Software Road Fuzhou ,Fujian 350003
CN

D0-52-A8 (hex) Physical Graph Corporation
D052A8 (base 16) Physical Graph Corporation
11654 Plaza America Drive
Reston VA 20190
US

CC-3A-61 (hex) SAMSUNG ELECTRO MECHANICS CO., LTD.
CC3A61 (base 16) SAMSUNG ELECTRO MECHANICS CO., LTD.
314, Maetan3-Dong, Yeongtong-Gu
Suwon Gyunggi-Do 443-743
US

F8-D7-BF (hex) REV Ritter GmbH
F8D7BF (base 16) REV Ritter GmbH
Frankenstra
M Bavaria 63776
DE

F8-48-97 (hex) Hitachi, Ltd.
F84897 (base 16) Hitachi, Ltd.
27-18, Minami Oi 6-chome, Shinagawa-ku
Tokyo 140-8572
JP

EC-89-F5 (hex) Lenovo Mobile Communication Technology Ltd.
EC89F5 (base 16) Lenovo Mobile Communication Technology Ltd.
No.999,Qishan North 2nd Road,Information&Optoelectronics Park,Torch Hi-tech Industry Development Zone,
Xiamen Fujian 361006
US

6C-D1-46 (hex) FRAMOS GmbH
6CD146
(base 16) FRAMOS GmbH
Mehlbeerenstr. 2
Taufkirchen 82024
DE

F0-73-AE (hex) PEAK-System Technik
F073AE (base 16) PEAK-System Technik
Otto-Roehm-Str 69
Darmstadt Hessen 64293
DE

48-B8-DE (hex) HOMEWINS TECHNOLOGY CO.,LTD.
48B8DE (base 16) HOMEWINS TECHNOLOGY CO.,LTD.
10F-1, NO. 122, QIAOHE RD.,
NEW TAIPEI CITY, 235
TW

10-EA-59 (hex) Cisco SPVTG
10EA59 (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

0C-19-1F (hex) Inform Electronik
0C191F (base 16) Inform Electronik
Emek mah.Ordu cad.No-49-51-53
Sarigazi-Sancaktepe Istanbul 34785
US

10-65-CF (hex) IQSIM
1065CF (base 16) IQSIM
2000 Route des Lucioles
BIOT 06410
FR

68-4C-A8 (hex) Shenzhen Herotel Tech. Co., Ltd.
684CA8 (base 16) Shenzhen Herotel Tech. Co., Ltd.
Room W1402, West Tower, No.10128, Shennan Road, Nanshan District
Shenzhen Guangdong 518000
CN

0C-8C-DC
(hex) Suunto Oy
0C8CDC (base 16) Suunto Oy
Valimotie 7
Vantaa Uusimaa 02710
FI

60-C5-A8 (hex) Beijing LT Honway Technology Co.,Ltd
60C5A8 (base 16) Beijing LT Honway Technology Co.,Ltd
Room 1703,A1 Tower, Changyuan Tiandi, No.18,Suzhou Street
beijing beijing 100086
CN

B4-DF-3B (hex) Chromlech
B4DF3B (base 16) Chromlech
19 av. Gabriel Faure
THORIGNE FOUILLARD 35235

FR

A8-45-E9 (hex) Firich Enterprises CO., LTD.
A845E9 (base 16) Firich Enterprises CO., LTD.
10F., No. 75, Sec. 1, Xintai 5th Rd., Xizhi Dist.
New Taipei City Taiwan (R.O.C.) 886
TW

7C-9A-9B (hex) VSE valencia smart energy
7C9A9B (base 16) VSE valencia smart energy
Sir Alexander Fleming n
Paterna Valencia 46980
ES

F8-0B-D0 (hex) Datang Telecom communication terminal (Tianjin) Co., Ltd.
F80BD0 (base 16) Datang Telecom communication terminal (Tianjin) Co., Ltd.
Garden East Roadon the 15th,
Haidian
District Beijing 100191
CN

64-5A-04 (hex) Chicony Electronics Co., Ltd.
645A04 (base 16) Chicony Electronics Co., Ltd.
No.25, Wugong 6th Rd., Wugu Dist.,
New Taipei City 248, TAIWAN, REPUBLIC OF CHINA 248
TW

AC-17-02 (hex) Fibar Group sp. z o.o.
AC1702 (base 16) Fibar Group sp. z o.o.
ul. Lotnicza 1
Poznan 60-421
PL

98-4C-D3 (hex) Mantis Deposition
984CD3 (base 16) Mantis Deposition
2 Goodson Industrial Mews
Thame Oxfordshire OX9 3BX
GB

08-60-6E (hex) ASUSTek COMPUTER INC.
08606E (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd., Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

3C-57-D5 (hex) FiveCo
3C57D5 (base 16) FiveCo
Ch. de la Rueyre 116

Renens VD 1020
US

84-E7-14 (hex) Liang Herng Enterprise,Co.Ltd.
84E714 (base 16) Liang Herng Enterprise,Co.Ltd.
1FL,No.27,KweiYang Street,Sanchung District,New Taipei City,Taiwan,R.O.C.
New Taipei City
241
TW

E4-A7-FD (hex) Cellco Partnership
E4A7FD (base 16) Cellco Partnership
One Verizon Way
Baskin Ridge New Jersey 07920
US

2C-E2-A8 (hex) DeviceDesign
2CE2A8 (base 16) DeviceDesign
Yeongtong-dong, Yeongtong-gu
Suwon-si Gyeonggi-do 443-813
KR

D4-13-6F (hex) Asia Pacific Brands
D4136F (base 16) Asia Pacific Brands
PO Box 113001
Auckland Newmarket 1149
NZ

00-B5-6D (hex) David Electronics Co., LTD.
00B56D (base 16) David Electronics Co., LTD.
9F, -2, No. 188, Sec. 3, Ta-Tung Rd.,
New Taipei City, 22103
TW

2C-35-57 (hex) ELIIY Power CO., Ltd.
2C3557 (base 16) ELIIY Power CO., Ltd.
1-6-4, Osaki
Shinagawa-ku 141-0032
JP

B8-04-15 (hex) Bayan Audio
B80415 (base 16) Bayan Audio
5 The Pavilions
Pease Pottage West Sussex RH11 9BJ
GB

F4-47-2A (hex) Nanjing Rousing Sci. and Tech. Industrial Co., Ltd
F4472A (base 16) Nanjing Rousing Sci. and

Tech. Industrial Co., Ltd
A630,F6,NO.58 Nanhu Road,Jianye District
Nanjing Jiangsu 210017
CN

DC-02-8E (hex) zte corporation
DC028E (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

64-62-23 (hex) Cellient Co., Ltd.
646223 (base 16) Cellient Co., Ltd.
6F Glass Tower, 366-4 Yatap-dong Bundang-gu
Seongnam-si Gyeonggi-do 463-827
KR

98-47-3C (hex) SHANGHAI SUNMON COMMUNICATION TECHNOGY CO.,LTD
98473C (base 16) SHANGHAI SUNMON COMMUNICATION TECHNOGY CO.,LTD
Suite 604-605,Xing Yuan Technology Plaza 418 Gui Ping Road ShangHAI
Shanghai 200233
CN

54-81-AD (hex) Eagle Research Corporation
5481AD (base 16) Eagle Research Corporation
4237 State Route 34
Hurricane West Virginia 25526
US

EC-47-3C (hex) Redwire, LLC
EC473C (base 16) Redwire, LLC
8 Thorndike St
Everett MA 02149
US

54-A0-4F (hex) t-mac Technologies
Ltd
54A04F (base 16) t-mac Technologies Ltd
Stand Park
Chesterfield Derbyshire S41 8JT
GB

14-DB-85 (hex) S NET MEDIA
14DB85 (base 16) S NET MEDIA
4F, SEHYUN BLDG, 1581-7
SEOUL 137-875
KR

B8-DA-F1 (hex) Strahlenschutz- Entwicklungs- und Ausruestungsgesellschaft mbH
B8DAF1 (base 16) Strahlenschutz- Entwicklungs- und Ausruestungsgesellschaft mbH
Ostdamm 139
Duelmen NRW 48249
DE

D4-5C-70 (hex) Wi-Fi Alliance
D45C70 (base 16) Wi-Fi Alliance
10900-B Stonelake Boulevard
Austin TX 78759
US

F4-1E-26 (hex) Simon-Kaloi Engineering
F41E26 (base 16) Simon-Kaloi Engineering
31192 La Baya Drive Unit G
Westlake Village CA 91362
US

3C-C1-2C (hex) AES Corporation
3CC12C (base 16) AES Corporation
285 Newbury St
Peabody MA 01960
US

94-9B-FD (hex) Trans New Technology, Inc.
949BFD (base 16) Trans New Technology, Inc.
KY Bldg. 8F, 5-14-4 Nishinippori
Arakawa
Tokyo 116-0013
JP

A0-0A-BF (hex) Wieson Technologies Co., Ltd.
A00ABF (base 16) Wieson Technologies Co., Ltd.
7F, No. 276, Sec. 1, Datong Rd
New Taipei City 221
TW

8C-CD-E8 (hex) Nintendo Co., Ltd.
8CCDE8 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

B8-29-F7 (hex) Blaster Tech
B829F7 (base 16) Blaster Tech
13337 South Street
Cerritos CA 90703
US

C8-E1-A7 (hex) Vertu Corporation Limited
C8E1A7 (base 16) Vertu Corporation Limited
Beacon Hill Road
Church Crookham Hampshire GU52 8DY
GB

4C-AB-33 (hex) KST technology
4CAB33 (base 16) KST technology
Bangi-dong, songpa-gu
Seoul 138-050
KR

48-52-61 (hex) SOREEL
485261 (base 16) SOREEL
18 Rue de la Gâtine
CHOLET FRANCE 49304
FR

7C-B2-32 (hex) Hui Zhou Gaoshengda Technology Co.,LTD
7CB232 (base 16) Hui Zhou Gaoshengda Technology Co.,LTD
No.75,Zhongkai
High-Tech Development District,Huizhou
Hui Zhou Guangdong 516006
CN

00-E6-66 (hex) ARIMA Communications Corp.
00E666 (base 16) ARIMA Communications Corp.
6F.,No.866,Zhongzheng Rd.,Zhonghe Dist.,
New Taipei City Taiwan 23586
TW

34-BD-FA (hex) Cisco SPVTG
34BDFA (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

70-25-26 (hex) Nokia
702526 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

A0-8C-15 (hex) Gerhard D. Wempe KG
A08C15 (base 16) Gerhard D. Wempe KG
Steinstrasse 23
Hamburg 20095

DE

90-CF-6F (hex) Dlogixs Co Ltd
90CF6F (base 16) Dlogixs Co Ltd
DLogixs Bldg, #351-1, Anyang-Dong
Anyang-si Gyeonggi-do 430-010
KR

18-D9-49 (hex) Qvis Labs, LLC
18D949 (base 16) Qvis Labs, LLC
3204 Rustic River Cove
Austin TX 78746-2001
US

04-9F-06 (hex) Smobile Co., Ltd.
049F06 (base 16) Smobile Co., Ltd.
T-1009,
Poongrim i-won Plus, 255-1
Seohyeon-dong, Bundang-gu Seongnam-si, Gyeonggi-do 463-862
KR

28-9A-4B (hex) SteelSeries ApS
289A4B (base 16) SteelSeries ApS
656 West Randolph, Suite 2E
Chicago IL 60661
US

EC-D9-50 (hex) IRT SA
ECD950 (base 16) IRT SA
Puits-Godet 16
NEUCHATEL NE 2000
CH

F8-05-1C (hex) DRS Imaging and Targeting Solutions
F8051C (base 16) DRS Imaging and Targeting Solutions
100 N Babcock St
Melbourne FL 32935
US

78-D3-4F (hex) Pace-O-Matic, Inc.
78D34F (base 16) Pace-O-Matic, Inc.
4150 Blue Ridge Industrial Parkway
Norcross GA 30071
US

A4-46-6B (hex) EOC Technology
A4466B (base 16) EOC Technology
#1601 Acro Palace, 1594 Gwanyang-dong, Dongan-gu

Anyang-si Gyeonggi-do 431-060
KR

7C-38-6C (hex) Real Time Logic
7C386C (base 16) Real Time Logic
12515 Academy Ridge View
Colorado Springs Colorado 80921
US

20-67-B1 (hex) Pluto
inc.
2067B1 (base 16) Pluto inc.
Hongo5-21-1-303
Bunkyo-ku Tokyo 113-0033
JP

18-9A-67 (hex) CSE-Servelec Limited
189A67 (base 16) CSE-Servelec Limited
Rotherside Road
Sheffield S21 4HL
GB

08-7D-21 (hex) Altasec technology corporation
087D21 (base 16) Altasec technology corporation
9F-1, No.75, Sec.1, Xintai 5th Rd.,
New Taipei City Taiwan 221
TW

34-D7-B4 (hex) Tributary Systems, Inc.
34D7B4 (base 16) Tributary Systems, Inc.
3717 Commerce Place
Bedford Texas 76021
US

F4-0F-9B (hex) WAVELINK
F40F9B (base 16) WAVELINK
#701, Dongyoung Venture'stel 3rd, 202-4,
Anyang-si Kyungki-do 430-817
KR

7C-02-BC (hex) Hansung Electronics Co. LTD
7C02BC (base 16) Hansung Electronics Co. LTD
319, Bong san-ri, San dong-myun
Gumi 730-853
KR

B8-24-10 (hex) Magneti Marelli Slovakia s.r.o.
B82410 (base 16) Magneti Marelli Slovakia s.r.o.

Industrial Park Kechnec
Kechnec
04458
SK

10-5F-49 (hex) Cisco SPVTG
105F49 (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

1C-5C-60 (hex) Shenzhen Belzon Technology Co.,LTD.
1C5C60 (base 16) Shenzhen Belzon Technology Co.,LTD.
5F Block 1,Zhongxin Building,Chuangye Rd
Shenzhen Guangdong 518054
CN

0C-C4-7E (hex) EUCAST Co., Ltd.
0CC47E (base 16) EUCAST Co., Ltd.
Room 303, 1018-2 Unjung-dong, Bundang-Gu
Seongnam-si Kyunggi-do 463-440
KR

50-72-4D (hex) BEG Brueck Electronic GmbH
50724D (base 16) BEG Brueck Electronic GmbH
Schlosserstraße 30
Lindlar Nordrhein-Westfalen 51789
DE

78-3C-E3 (hex) Kai-EE
783CE3 (base 16) Kai-EE
3F.-12, No.79, Sec. 1, Xintai 5th Rd.,
New Taipei City 22101
TW

B8-98-B0 (hex) Atlona Inc.
B898B0 (base 16) Atlona Inc.
70 Daggett Dr.
San Jose CA 95134
US

08-0C-0B (hex) SysMik GmbH Dresden
080C0B (base 16) SysMik
GmbH Dresden
Bertolt-Brecht-Allee 24
Dresden 01309
DE

DC-BF-90 (hex) HUIZHOU QIAOXING TELECOMMUNICATION INDUSTRY CO.,LTD.
DCBF90 (base 16) HUIZHOU QIAOXING TELECOMMUNICATION INDUSTRY CO.,LTD.
Qiaoxing Science Technological&Industrial Zone Tangquan
Huizhou Guangdong 516023
CN

C8-FB-26 (hex) Cisco SPVTG
C8FB26 (base 16) Cisco SPVTG
5030 Sugarloaf Parkway
Lawrenceville GA 30044
US

AC-BD-0B (hex) Leimac Ltd.
ACBD0B (base 16) Leimac Ltd.
1551, Sazukawa-chou
Moriyama-shi Shiga-ken 524-0215
JP

B8-58-10 (hex) NUMERA, INC.
B85810 (base 16) NUMERA, INC.
1511 3RD AVE
SEATTLE WA 98101
US

64-5F-FF (hex) Nicolet Neuro
645FFF (base 16) Nicolet Neuro
1850 Deming Way
Middleton WI 53562
US

24-69-4A (hex) Jasmine Systems Inc.
24694A (base 16) Jasmine Systems Inc.
50 Charles Lindbergh Blvd. Suite 411
Uniondale NY 11553
US

D8-08-F5 (hex) Arcadia
Networks Co. Ltd.
D808F5 (base 16) Arcadia Networks Co. Ltd.
Cheung Sha Wan 5-B FL
Kowloon 0633
HK

C0-A3-64 (hex) 3D Systems Massachusetts
C0A364 (base 16) 3D Systems Massachusetts
19 Connector Road
Andover MA 01810
US

AC-7A-42 (hex) iConnectivity
AC7A42 (base 16) iConnectivity
4620 Manilla Road SE, Unit 58
Calgary Alberta T2G 4B7
CA

70-0B-C0 (hex) Dewav Technology Company
700BC0 (base 16) Dewav Technology Company
Room 1408, Real Estate Mansion
Shangahi 200120
CN

CC-14-A6 (hex) Yichun MyEnergy Domain, Inc
CC14A6 (base 16) Yichun MyEnergy Domain, Inc
349W. Yuanshan Rd, Yichun
Yichun Jiangxi 336000
CN

1C-5F-FF (hex) Beijing Ereneben Information Technology Co.,Ltd Shenzhen Branch
1C5FFF (base 16) Beijing Ereneben Information Technology Co.,Ltd Shenzhen Branch
Room 14A, Building A, Honglong Central Plaza, No.3001,Heping Road, Luohu District, Shenzhen City
Shenzhen
Guangdong 518001
CN

60-45-BD (hex) Microsoft
6045BD (base 16) Microsoft
1 Microsoft Way
Redmond Washington 98052
US

9C-54-CA (hex) Zhengzhou VCOM Science and Technology Co.,Ltd
9C54CA (base 16) Zhengzhou VCOM Science and Technology Co.,Ltd
National 863 Software Park£¬No.6 Cuizhu Street, Hi-tech Indusry Developing Park
ZhengZhou City Henan Province 450001
CN

90-1E-DD (hex) GREAT COMPUTER CORPORATION
901EDD (base 16) GREAT COMPUTER CORPORATION
4F., No.236, Fude 2nd Rd., Xizhi Dist.,
New Taipei City 22151
TW

B8-B9-4E (hex) Shenzhen iBaby Labs, Inc.
B8B94E (base 16) Shenzhen iBaby Labs, Inc.
Room 218, Building 17,Shangsha Innovation Science and Technology Park,Futian District
Shenzhen Guangdong 518047

CN

AC-C6-98 (hex) Kohzu Precision Co., Ltd.
ACC698 (base 16) Kohzu Precision Co., Ltd.
2-6-15, Kurigi, Asao-ku
Kawasaki-shi Kanagawa 215-8521
JP

AC-0A-61 (hex) Labor
S.r.L.
AC0A61 (base 16) Labor S.r.L.
Via della Scrofa 117
Rome 00186
IT

24-10-64 (hex) Shenzhen Ecsino Tecnical Co. Ltd
241064 (base 16) Shenzhen Ecsino Tecnical Co. Ltd
7F Guoxin build ChangXin Road. Nan'shan District
Shenzhen Guangdong 518000
CN

A4-D1-8F (hex) Shenzhen Skyee Optical Fiber Communication Technology Ltd.
A4D18F (base 16) Shenzhen Skyee Optical Fiber Communication Technology Ltd.
No.5 Bldg. Yimin Industrial Park, No.31, Makan South Road, Nanshan District
Shenzhen Guangdong 518000
CN

58-34-3B (hex) Glovast Technology Ltd.
58343B (base 16) Glovast Technology Ltd.
6F., No.23, JianKang Rd., SongShan Dist.,
Taipei 105
TW

10-9F-A9 (hex) Actiontec Electronics, Inc
109FA9 (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

88-96-76 (hex) TTC MARCONI s.r.o.
889676 (base 16) TTC MARCONI s.r.o.
Trebohosticka s.r.o.
Praha
10000
CZ

5C-17-37 (hex) I-View Now, LLC.
5C1737 (base 16) I-View Now, LLC.

1421 E. Sunset
Las Vegas NV 89119
US

70-B5-99 (hex) Embedded Technologies s.r.o.
70B599 (base 16) Embedded Technologies s.r.o.
Doubravice 134
Turnov 51101
CZ

7C-EB-EA (hex) ASCT
7CEBEA (base 16) ASCT
4F., No.49, Wu-Gong 6th Rd. Wu-Gu Industrial Park,
New Taipei City 248
TW

9C-0D-AC (hex) Tymphany HK Limited
9C0DAC (base 16) Tymphany HK Limited
RM 1307-8
43-59, Queen's Road East Wanchai
HK

1C-43-EC (hex) JAPAN CIRCUIT CO.,LTD
1C43EC (base 16) JAPAN CIRCUIT CO.,LTD
NKF-Kawasaki-Building 7F
Kawasaki Kanagawa 2100005
JP

00-BF-15 (hex) Genetec Inc.
00BF15 (base 16) Genetec Inc.
2280 boul. Alfred-Nobel
St,. Laurent Quebec H4S 2A4
CA

74-6A-89 (hex) Rezolt Corporation
746A89 (base 16) Rezolt Corporation
2855 Bowers Avenue
Santa Clara CA 95051
US

70-2F-4B
(hex) Steelcase Inc.
702F4B (base 16) Steelcase Inc.
901 44th Street SE
Grand Rapids MI 49508-7594
US

EC-4C-4D (hex) ZAO NPK RoTeK

EC4C4D (base 16) ZAO NPK RoTeK
Bild. 119-1, Prospekt Mira
Moscow Moscow 129223
RU

54-D1-B0 (hex) Universal Laser Systems, Inc
54D1B0 (base 16) Universal Laser Systems, Inc
16008 N 81st street
scottsdale az 85260
US

78-52-62 (hex) Shenzhen Hojy Software Co., Ltd.
785262 (base 16) Shenzhen Hojy Software Co., Ltd.
3F,East of Building25,Keyuanxi,Number 5,Kezhixi Road, Science & Industry Park ,Nan Shan District ,Shenzhen
ShenZhen GuangDong 508057
CN

CC-18-7B (hex) Manzanita Systems, Inc.
CC187B (base 16) Manzanita Systems, Inc.
14269 Danielson Street
Poway CA 92064
US

D4-DF-57 (hex) Alpinion Medical Systems
D4DF57 (base 16) Alpinion Medical Systems
1F Verdi Tower 222-22
Seoul 181-848
KR

50-48-EB (hex) BEIJING HAIHEJINSHENG
NETWORK TECHNOLOGY CO. LTD.
5048EB (base 16) BEIJING HAIHEJINSHENG NETWORK TECHNOLOGY CO. LTD.
RM 701 Unit 2 Huirong Bldg. No.106 Lianhuachi East RD. Xuanwu Dist. Beijing
BEIJING CHINA 100055
CN

B4-0E-96 (hex) HERAN
B40E96 (base 16) HERAN
No.88, Keji 3rd Rd., Guishan Township
Taoyuan R.O.C 333
TW

74-14-89 (hex) SRT Wireless
741489 (base 16) SRT Wireless
4101 SW 47th Avenue #102
Davie Florida 33314
US

24-1B-13 (hex) Shanghai Nutshell Electronic Co., Ltd.
241B13 (base 16) Shanghai Nutshell Electronic Co., Ltd.
365 Guoshoujing RD.,Zhangjiang Hi-Tech Park, Pudong District
Shanghai Shanghai 201203
CN

B4-35-64 (hex) Fujian Tian Cheng Electron Science & Technical Development Co.,Ltd.
B43564 (base 16) Fujian Tian Cheng Electron Science & Technical Development Co.,Ltd.
1801 unit,Tian an Cyber Times Tower A,Futian District
Shenzhen Guangdong 518000
CN

20-01-4F (hex) Linea Research
Ltd
20014F (base 16) Linea Research Ltd
1 Marquis Business Centre
Baldock Hertfordshire SG7 6XL
GB

EC-0E-D6 (hex) ITECH INSTRUMENTS SAS
EC0ED6 (base 16) ITECH INSTRUMENTS SAS
3 Avenue de la Maranne
Châteauneuf-Les-Martigues 13220
FR

38-EE-9D (hex) Anedo Ltd.
38EE9D (base 16) Anedo Ltd.
Huelsmeyerstraße 35
Eydelstedt 49406
DE

24-09-17 (hex) Devlin Electronics Limited
240917 (base 16) Devlin Electronics Limited
Unit D1
Basingstoke Hampshire RG226HZ
GB

78-BE-BD (hex) STULZ GmbH
78BEBD (base 16) STULZ GmbH
Holsteiner Chausse 283
Hamburg 22457
DE

50-8C-77 (hex) DIRMEIER Schanktechnik GmbH &Co KG
508C77 (base 16) DIRMEIER Schanktechnik GmbH &Co KG
Alfons-Goppel-Straße 5
92526 Oberviechtach
DE

40-70-4A (hex) Power Idea Technology Limited
40704A (base 16) Power Idea Technology Limited
1401A, Mintai Building, WenXin 5 Road, ShenZhen, PRC
Guang
Dong Shen Zhen 518054
CN

54-5E-BD (hex) NL Technologies
545EBD (base 16) NL Technologies
33 Laird Drive
Toronto ON M4G3S8
CA

28-F6-06 (hex) Syes srl
28F606 (base 16) Syes srl
Via Zanella 21
Lissone (MB) Monza Brianza 20851
IT

0C-AF-5A (hex) GENUS POWER INFRASTRUCTURES LIMITED
0CAF5A (base 16) GENUS POWER INFRASTRUCTURES LIMITED
SPL-3 RIICO INDUSTRIAL AREA
JAIPUR RAJASTHAN 302022
IN

F4-7F-35 (hex) Cisco Systems, Inc
F47F35 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

BC-C1-68 (hex) DinBox Sverige AB
BCC168 (base 16) DinBox Sverige AB
Surbrunnsgatan 14
Stockholm 11427
SE

24-11-25 (hex) Hutek Co., Ltd.
241125 (base 16) Hutek Co., Ltd.
E-402 Bundang Technopark
Seongnam-city Gyeonggi-do 463-760
KR

B4-31-B8 (hex) Aviwest
B431B8 (base 16) Aviwest
6 rue du Patis Tatelin
Rennes 35700

FR

0C-E5-D3
(hex) DH electronics GmbH
0CE5D3 (base 16) DH electronics GmbH
Am Anger 8
Bergen 83346
DE

08-BE-09 (hex) Astrol Electronic AG
08BE09 (base 16) Astrol Electronic AG
Vorderi Böde 3
Oberrohrdorf AG 5452
CH

B4-1D-EF (hex) Internet Laboratories, Inc.
B41DEF (base 16) Internet Laboratories, Inc.
P.O. Box 7697
Atlanta GA 30357
US

80-93-93 (hex) Xapt GmbH
809393 (base 16) Xapt GmbH
Neidenburger Str. 10
Gelsenkirchen NRW 45897
DE

28-17-CE (hex) Omnisense Ltd
2817CE (base 16) Omnisense Ltd
3rd Floor St Andrew's House
Cambridge Cambridgeshire CB2 3BZ
GB

3C-CE-73 (hex) Cisco Systems, Inc
3CCE73 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

B0-BD-6D (hex) Echostreams Innovative Solutions
B0BD6D (base 16) Echostreams Innovative Solutions
1130 Coiner Ct.
City of Industry CA 91748
US

0C-D2-B5 (hex) Binatone Telecommunication
Pvt. Ltd
0CD2B5 (base 16) Binatone Telecommunication Pvt. Ltd

A36, G/F, Sector 4
Uttar Pradesh 201301
IN

48-46-F1 (hex) Uros Oy
4846F1 (base 16) Uros Oy
Tutkijantie 4
OULU 90590
FI

B8-27-EB (hex) Raspberry Pi Foundation
B827EB (base 16) Raspberry Pi Foundation
Mitchell Wood House
Caldecote Cambridgeshire CB23 7NU
US

F8-99-55 (hex) Fortress Technology Inc
F89955 (base 16) Fortress Technology Inc
51 Grand Marshall Drive
Scarborough Ontario M1B 5N6
CA

4C-C9-4F (hex) Nokia
4CC94F (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

B0-58-C4 (hex) Broadcast Microwave Services, Inc
B058C4 (base 16) Broadcast Microwave Services, Inc
12367 Crosthwaite Circle
Poway CA 92064
US

84-AF-1F (hex) Beat System Service Co,. Ltd.
84AF1F (base 16) Beat System Service Co,. Ltd.
1-11-1-2F, Nodaya-cho
Okayama-city Okayama 700-0815
JP

A0-07-B6
(hex) Advanced Technical Support, Inc.
A007B6 (base 16) Advanced Technical Support, Inc.
10 Grassmere Ave
West Hartford CT 06110
US

E4-25-E9 (hex) Color-Chip

E425E9 (base 16) Color-Chip
Tavor Building 1
New Industrial Park Yokneam 20692
IL

78-A1-83 (hex) Advidia
78A183 (base 16) Advidia
3 Riverway
Houston TX 77056
US

DC-30-9C (hex) Heyrex Limited
DC309C (base 16) Heyrex Limited
Level 1, 236-256 Karori Road
Wellington 6147
NZ

7C-EF-8A (hex) Inhon International Ltd.
7CEF8A (base 16) Inhon International Ltd.
2F, No.552, Ruiguang Rd, Neihu Dist
Taipei Taiwan 114
TW

9C-01-11 (hex) Shenzhen Newabel Electronic Co., Ltd.
9C0111 (base 16) Shenzhen Newabel Electronic Co., Ltd.
5Flr, South Tower of Sichuan Bld.,
Shenzhen Guangdong 518028
CN

40-0E-67 (hex) Tremol Ltd.
400E67 (base 16) Tremol Ltd.
6 Toledo str.
Veliko Turnovo 5000
BG

60-44-F5
(hex) Easy Digital Ltd.
6044F5 (base 16) Easy Digital Ltd.
Victoria Buildings, 1 Haddington Road
Dublin 4
IE

74-57-98 (hex) TRUMPF Laser GmbH + Co. KG
745798 (base 16) TRUMPF Laser GmbH + Co. KG
Aichhalder Str. 39
Schramberg BW 78713
DE

14-B1-C8 (hex) InfiniWing, Inc.
14B1C8 (base 16) InfiniWing, Inc.
19925 Stevens Creek Blvd
Cupertino CA 95014
US

50-05-3D (hex) CyWee Group Ltd
50053D (base 16) CyWee Group Ltd
3F, No.28, Lane128
Taipei 10462
TW

F8-8C-1C (hex) KAISHUN ELECTRONIC TECHNOLOGY CO., LTD. BEIJING
F88C1C (base 16) KAISHUN ELECTRONIC TECHNOLOGY CO., LTD. BEIJING
NO.1 FARM, HENGQIAO VILLAGE WEST, MACHIKOU TOWN,
BEIJING 102200
CN

1C-0B-52 (hex) EPICOM S.A
1C0B52 (base 16) EPICOM S.A
Autovia Andalucia Km 12.700
Getafe Madrid 28905
ES

74-7E-2D (hex) Beijing Thomson CITIC Digital Technology Co. LTD.
747E2D (base 16) Beijing
Thomson CITIC Digital Technology Co. LTD.
8301, No.8 Workshop, 3 Yongchangbei Road
Beijing 100176
CN

4C-64-D9 (hex) Guangdong Leawin Group Co., Ltd
4C64D9 (base 16) Guangdong Leawin Group Co., Ltd
10/F, Domain Bldg,No.8 Keji Road(E),HiTech Development District,
Shantou Guangdong 515041
CN

94-01-49 (hex) AutoHotBox
940149 (base 16) AutoHotBox
14090 SW Frwy, Ste. 300
Sugar Land TX 77478
US

1C-B0-94 (hex) HTC Corporation
1CB094 (base 16) HTC Corporation
No. 23, Xinghua Rd., Taoyuan City
Taoyuan County Taiwan 330
TW

B4-82-55 (hex) Research Products Corporation
B48255 (base 16) Research Products Corporation
1015 E. Washington Ave
Madison WI 53703
US

80-16-B7 (hex) Brunel University
8016B7 (base 16) Brunel University
School of IS, Computing & Maths
Uxbridge Middlesex UB8 3PH
GB

F0-F7-55 (hex) Cisco Systems, Inc
F0F755 (base 16) Cisco Systems, Inc
80
West Tasman Drive
San Jose CA 94568
US

1C-B2-43 (hex) TDC A/S
1CB243 (base 16) TDC A/S
Telehøjen 1
Odense SØ 5220
DK

38-BF-33 (hex) NEC CASIO Mobile Communications
38BF33 (base 16) NEC CASIO Mobile Communications
1753,Shimonumabe
Kawasaki-shi Kanagawa 211-8666
JP

3C-C1-F6 (hex) Melange Systems Pvt. Ltd.
3CC1F6 (base 16) Melange Systems Pvt. Ltd.
4/1, 7th Cross, Kumarapark West
Bangalore Karnataka 560020
IN

94-FA-E8 (hex) Shenzhen Eycom Technology Co., Ltd
94FAE8 (base 16) Shenzhen Eycom Technology Co., Ltd
EYANG Building, No. 3 of Qimin Rd, Langshan 2nd Street, North Area of Hi-Tech Industrial Zone, Nanshan District
Shenzhen Guang Dong 518057
CN

E8-40-F2 (hex) PEGATRON CORPORATION
E840F2 (base 16) PEGATRON CORPORATION
5F No. 76, Ligong St., Beitou District

Taipei City Taiwan 112
TW

64-5E-BE (hex) Yahoo! JAPAN
645EBE (base 16) Yahoo! JAPAN
Midtown
Tower
Minato-ku Tokyo 107-6211
JP

CC-C5-0A (hex) SHENZHEN DAJIAHAO TECHNOLOGY CO.,LTD
CCC50A (base 16) SHENZHEN DAJIAHAO TECHNOLOGY CO.,LTD
3F Buliding 1, 2th Park TaoHuaYuan Tech- Innovation,
Shenzhen Guangdong 518102
CN

D8-BF-4C (hex) Victory Concept Electronics Limited
D8BF4C (base 16) Victory Concept Electronics Limited
4/F., CAC Tower,
Kwun Tong Kowloon KLN
HK

3C-B9-A6 (hex) Belden Deutschland GmbH
3CB9A6 (base 16) Belden Deutschland GmbH
Stuttgarter Straße 45-51
Neckartenzlingen 72654
DE

00-8D-DA (hex) Link One Co., Ltd.
008DDA (base 16) Link One Co., Ltd.
601F Chungjuk tower 546-9
Buchion Gyeonggi-do 420-864
KR

C4-98-05 (hex) Minieum Networks, Inc
C49805 (base 16) Minieum Networks, Inc
6404 International Parkway
Plano Texas 75093
US

90-F4-C1 (hex) Rand McNally
90F4C1 (base 16) Rand McNally
9855 Woods Drive
Skokie IL 60077
US

18-19-3F

(hex) Tamtron Oy
18193F (base 16) Tamtron Oy
P.O.Box 15 (Vestonkatu 11)
Tampere 33561
FI

88-5C-47 (hex) Alcatel Lucent
885C47 (base 16) Alcatel Lucent
Via Energy Park, 14
Vimercate MB 20871
IT

C0-DF-77 (hex) Conrad Electronic SE
C0DF77 (base 16) Conrad Electronic SE
Klaus Conrad Str. 1
Hirschau Bavaria 92240
DE

30-55-ED (hex) Trex Network LLC
3055ED (base 16) Trex Network LLC
Room 505, Tower B Nongke Building,
Beijing 100097
CN

8C-0C-A3 (hex) Amper
8C0CA3 (base 16) Amper
Marconi 3, PTM
Tres Cantos Madrid 28760
US

94-DF-58 (hex) IJ Electron CO.,Ltd.
94DF58 (base 16) IJ Electron CO.,Ltd.
401 ACE HIGHEND8, 345-4 GASAN-DONG
SEOUL 153-802
KR

48-D5-4C (hex) Jeda Networks
48D54C (base 16) Jeda Networks
2618 San Miguel Drive
Newport Beach Ca. 92660
US

BC-B8-52 (hex) Cybera, Inc.
BCB852 (base 16) Cybera, Inc.
9009
Carothers Parkway
Franklin TN 37067
US

C4-93-00 (hex) 8Devices
C49300 (base 16) 8Devices
Gedimino st. 47
Kaunas LT 44242
LT

6C-A6-82 (hex) EDAM information & communications
6CA682 (base 16) EDAM information & communications
601, Hanlim Veture town, 689-6
Gunpo Gyenggi-Do 435-862
KR

28-D5-76 (hex) Premier Wireless, Inc.
28D576 (base 16) Premier Wireless, Inc.
4222 E. La Palma Ave.
Anaheim CA 92807
US

70-D6-B6 (hex) Metrum Technologies
70D6B6 (base 16) Metrum Technologies
315 South University Parks Drive
Waco Texas 76701
US

C0-A0-DE (hex) Multi Touch Oy
C0A0DE (base 16) Multi Touch Oy
Henry Fordin katu 6
Helsinki 00150
FI

8C-DE-52 (hex) ISSC Technologies Corp.
8CDE52 (base 16) ISSC Technologies Corp.
4F, No.8, Dusing Rd.,
Hsinchu City 30078
TW

08-25-22 (hex) ADVANSEE
082522 (base 16) ADVANSEE
9 Rue Alfred Kastler
NANTES
44307
FR

4C-2F-9D (hex) ICM Controls
4C2F9D (base 16) ICM Controls
7313 William Barry Blvd
North Syracuse NY 13212

US

1C-BB-A8 (hex) OJSC Ufimskiy Zavod Promsvyaz
1CBBA8 (base 16) OJSC Ufimskiy Zavod Promsvyaz
39, 50 let SSSR
Ufa Bashkortostan 450071
RU

9C-A1-34 (hex) Nike, Inc.
9CA134 (base 16) Nike, Inc.
1 Bowerman Drive
Beaverton OR 97005
US

58-1D-91 (hex) Advanced Mobile Telecom co.,ltd.
581D91 (base 16) Advanced Mobile Telecom co.,ltd.
#608, Yatap Leaders Bldg. 342-1
Seongnam-si Gyeonggi-do 463-828
KR

1C-B1-7F (hex) NEC Platforms, Ltd.
1CB17F (base 16) NEC Platforms, Ltd.
800 Shimomata
Kakegawa Shizuoka 436-8501
JP

E4-2C-56 (hex) Lilee Systems, Ltd.
E42C56 (base 16) Lilee Systems, Ltd.
2905 Stender Way, Suite 78
Santa Clara CA 95054
US

B8-96-74 (hex) AllDSP GmbH & Co. KG
B89674 (base 16) AllDSP GmbH & Co. KG
Spenglerstrasse
6
Hamm NRW 59067
DE

48-E1-AF (hex) Vity
48E1AF (base 16) Vity
180 rue Pierre Landais
Caudan 56 56850
FR

B4-67-E9 (hex) Qingdao GoerTek Technology Co., Ltd.
B467E9 (base 16) Qingdao GoerTek Technology Co., Ltd.
5F, No.3 Building, Fortune Center

Qingdao Shandong 266061
CN

18-67-51 (hex) KOMEG Industrielle Messtechnik GmbH
186751 (base 16) KOMEG Industrielle Messtechnik GmbH
Zum Wasserwerk 3
Völklingen 66333
DE

48-ED-80 (hex) daesung eltec
48ED80 (base 16) daesung eltec
#509 SJ Technoville, 60-19, Gasan-dong
Seoul 153-769
KR

C8-07-18 (hex) TDSi
C80718 (base 16) TDSi
Unit 10 Concept Park
Poole Dorset BH12 4QT
GB

40-BC-8B (hex) itelio GmbH
40BC8B (base 16) itelio GmbH
Franz-Larcher-Straße 4
Kiefersfelden Bavaria 83088
DE

6C-9C-ED (hex) Cisco Systems, Inc
6C9CED (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA
94568
US

00-6B-A0 (hex) SHENZHEN UNIVERSAL INTELLISYS PTE LTD
006BA0 (base 16) SHENZHEN UNIVERSAL INTELLISYS PTE LTD
ROOM 1607-1608,XINGJI MANSION
SHENZHEN GUANGDONG 518104
CN

A8-98-C6 (hex) Shinbo Co., Ltd.
A898C6 (base 16) Shinbo Co., Ltd.
203-14, Anyang 7-Dong, Manan-Gu
Anyang-Si Kyungki-Do 430-817
KR

B4-21-1D (hex) Beijing GuangXin Technology Co., Ltd
B4211D (base 16) Beijing GuangXin Technology Co., Ltd

Room 313,B Bld,Horizon International Tower,Zhichun Road,6,Haidian District,Beijing City,P.R.China
Beijing 100086
CN

90-3C-AE (hex) Yunnan KSEC Digital Technology Co.,Ltd.
903CAE (base 16) Yunnan KSEC Digital Technology Co.,Ltd.
3F,NO.176 Keyi ROAD,High and New Technological Industrial Development Zone
Kunming Yunnan 650106
CN

70-70-4C (hex) Purple Communications, Inc
70704C (base 16) Purple Communications, Inc
595 Menlo
Rocklin CA 95765
US

D8-97-60 (hex) C2 Development,
Inc.
D89760 (base 16) C2 Development, Inc.
127 S Bell Ave
Ames IA 50010
US

F4-7A-CC (hex) SolidFire, Inc.
F47ACC (base 16) SolidFire, Inc.
1620 Pearl Street
Boulder Colorado 80302
US

20-10-7A (hex) Gemtek Technology Co., Ltd.
20107A (base 16) Gemtek Technology Co., Ltd.
No. 1 Jen Ai Road Hsinchu Industrial Park Hukou, Hsinchu 30352 TAIWAN, REPUBLIC OF CHINA
Hsinchu TAIWAN 30352
TW

78-DD-D6 (hex) c-scape
78DDD6 (base 16) c-scape
westerkade 22
Gouda 2802 SL
NL

C0-91-32 (hex) Patriot Memory
C09132 (base 16) Patriot Memory
47027 Benicia
Fremont CA 94555
US

90-18-5E (hex) Apex Tool Group GmbH & Co OHG

90185E (base 16) Apex Tool Group GmbH & Co OHG
Industriestraße 1
Westhausen 73463
DE

F8-FE-5C (hex) Reciprocal Labs Corp
F8FE5C (base 16) Reciprocal Labs Corp
3 S. Pinckney St.
Madison WI 53703
US

90-56-82 (hex) Lenbrook
Industries Limited
905682 (base 16) Lenbrook Industries Limited
633 Granite Court
Pickering Ontario L1W 3K1
CA

F0-DA-7C (hex) RLH INDUSTRIES,INC.
F0DA7C (base 16) RLH INDUSTRIES,INC.
936 N. MAIN ST.
ORANGE CA 92867
US

AC-31-9D (hex) Shenzhen TG-NET Botone Technology Co.,Ltd.
AC319D (base 16) Shenzhen TG-NET Botone Technology Co.,Ltd.
2nd floor,Building No.6,Pengtengda industrial zone,Huarong road,Dalang Street Office,
Shenzhen Guangdong 518109
CN

E8-43-B6 (hex) QNAP Systems, Inc.
E843B6 (base 16) QNAP Systems, Inc.
2F., No.22, Zhongxing Rd., Xizhi Dist.
New Taipei City 221
TW

E0-DA-DC (hex) JVC KENWOOD Corporation
E0DADC (base 16) JVC KENWOOD Corporation
3-12, Moriyacho, Kanagawa-ku
Yokohama-shi Kanagawa 221-0022
JP

B8-9B-C9 (hex) SMC Networks Inc
B89BC9 (base 16) SMC Networks Inc
20 Mason
Irvine CA 92618
US

24-86-F4 (hex) Ctek, Inc.
2486F4 (base
16) Ctek, Inc.
34 Miraleste Plaza
Rancho Palos Verdes California 90275
US

C4-23-7A (hex) WhizNets Inc.
C4237A (base 16) WhizNets Inc.
830 Stewart Drive
Sunnyvale California 94085
US

B8-74-24 (hex) Viessmann Elektronik GmbH
B87424 (base 16) Viessmann Elektronik GmbH
Beetwiese 2
Allendorf (Eder) 35108
DE

50-FC-30 (hex) Treehouse Labs
50FC30 (base 16) Treehouse Labs
601 Great Oaks Dr.
Round Rock TX 78681
US

E4-67-BA (hex) Danish Interpretation Systems A/S
E467BA (base 16) Danish Interpretation Systems A/S
Vestre Teglgade 12
Copenhagen SV 2450
DK

B4-51-F9 (hex) NB Software
B451F9 (base 16) NB Software
Eichhalde 3
Weissach i. T. Baden-Württemberg 71554
DE

30-16-8D (hex) ProLon
30168D (base 16) ProLon
17510 rue Charles, Suite 100
Mirabel Quebec J7J 1X9
CA

F4-E6-D7 (hex) Solar Power Technologies, Inc.
F4E6D7 (base 16) Solar Power
Technologies, Inc.
3006 Bee Caves Rd.
Austin Texas 78746

US

E4-AF-A1 (hex) HES-SO
E4AFA1 (base 16) HES-SO
Case postale 2134
Sion 1950
CH

A8-87-ED (hex) ARC Wireless LLC
A887ED (base 16) ARC Wireless LLC
6330 N. Washington St.
Denver CO 80216
US

D4-D2-49 (hex) Power Ethernet
D4D249 (base 16) Power Ethernet
4th Floor, Holborn Gate
London WC2A 1AH
GB

80-42-7C (hex) Adolf Tedsen GmbH & Co. KG
80427C (base 16) Adolf Tedsen GmbH & Co. KG
Otto-Hahn-Str. 13-15
Trittau Schleswig-Holstein D-22946
DE

40-9F-C7 (hex) BAEKCHUN I&C Co., Ltd.
409FC7 (base 16) BAEKCHUN I&C Co., Ltd.
67-5, Gyesu-dong
Bucheon-si Gyeonggi-do 422-070
KR

68-F1-25 (hex) Data Controls Inc.
68F125 (base 16) Data Controls Inc.
Fukashiro Bldg, 8F
Taito-ku Tokyo 111-0052
JP

BC-76-4E (hex) Rackspace US, Inc.
BC764E (base 16) Rackspace US, Inc.
5000 Walzem Rd.
San
Antonio TX 78218
US

30-57-AC (hex) IRLAB LTD.
3057AC (base 16) IRLAB LTD.
3rd Floor, 2A Biulding, Huihao Industrial Park

Shenzhen Guang Dong 518106
CN

98-C8-45 (hex) PacketAccess
98C845 (base 16) PacketAccess
611 North Main Street
Goldfield IA 50543
US

F0-DE-B9 (hex) ShangHai Y&Y Electronics Co., Ltd
F0DEB9 (base 16) ShangHai Y&Y Electronics Co., Ltd
No.3, 588 Tianxiong Road, Shanghai International Medical Zone(SIMZ),
Shanghai 201318
CN

7C-A6-1D (hex) MHL, LLC
7CA61D (base 16) MHL, LLC
1140 East Arques Avenue
Sunnyvale CA 94085
US

00-FC-58 (hex) WebSilicon Ltd.
00FC58 (base 16) WebSilicon Ltd.
25, Habarzel St.,
Tel-Aviv 69710
IL

98-35-71 (hex) Sub10 Systems Ltd
983571 (base 16) Sub10 Systems Ltd
Ash House
Kingsteignton Devon TQ12 3RZ
GB

54-04-A6 (hex) ASUSTek COMPUTER INC.
5404A6 (base 16) ASUSTek COMPUTER INC.
15,Li-Te Rd.,
Peitou, Taipei 112, Taiwan
Taipei Taiwan 112
TW

F8-33-76 (hex) Good Mind Innovation Co., Ltd.
F83376 (base 16) Good Mind Innovation Co., Ltd.
20, Lane 200, Cheng Hu Rd.
Kaohsiung 833
TW

A0-E2-01 (hex) AVTrace Ltd.(China)
A0E201 (base 16) AVTrace Ltd.(China)

RM704, District B1, Originality Building, No.162 KeXue Avenue Science Town,GUANGZHOU,CHINA
GUANGZHOU GUANGDONG 510611
US

9C-F6-7D (hex) Ricardo Prague, s.r.o.
9CF67D (base 16) Ricardo Prague, s.r.o.
Thamova 13
Praha 8 186 00
CZ

F8-2F-5B (hex) eGauge Systems LLC
F82F5B (base 16) eGauge Systems LLC
1644 Conestoga St, Suite 2
Boulder CO 80301
US

18-7C-81 (hex) Valeo Vision Systems
187C81 (base 16) Valeo Vision Systems
Dunmore Road
County Galway
IE

AC-CC-8E (hex) Axis Communications AB
ACCC8E (base 16) Axis Communications AB
Emdalavägen 14
LUND 22369
SE

98-90-80 (hex) Linkpower Network
System Inc Ltd.
989080 (base 16) Linkpower Network System Inc Ltd.
Room 202, Build 18, Shahe Industrial Zone
Shenzhen Guangdong 518053
CN

18-6D-99 (hex) Adanis Inc.
186D99 (base 16) Adanis Inc.
#2015-2016 Geumkang Penterium
Hakuro, Dongan-Gu, Anyang-Si Kyunggi-Do 431-060
KR

4C-02-89 (hex) LEX COMPUTECH CO., LTD
4C0289 (base 16) LEX COMPUTECH CO., LTD
3F, No.77, LI DE St. Chung Ho Dist.,
New Taipei City 23556
TW

C0-E5-4E (hex) ARIES Embedded GmbH

C0E54E (base 16) ARIES Embedded GmbH
Schöngeisinger Str. 84
Fürstenfeldbruck D-82256
DE

84-2B-50 (hex) Huria Co.,Ltd.
842B50 (base 16) Huria Co.,Ltd.
#190-28 Chungchun-2Dong
Incheon 403-032
KR

50-F6-1A (hex) Kunshan JADE Technologies co., Ltd.
50F61A (base 16) Kunshan JADE Technologies co., Ltd.
12th Floor, Southern Building, Pudong Software Park,828 Xueyuan Road, Bacheng Town
Kunshan Jiangsu 215311
CN

54-20-18
(hex) Tely Labs
542018 (base 16) Tely Labs
545 Middlefield Road
Menlo Park CA 94025
US

58-1F-EF (hex) Tuttnaer LTD
581FEF (base 16) Tuttnaer LTD
Har-Tuv B
Beith Shemesh 99000
IL

58-BD-A3 (hex) Nintendo Co., Ltd.
58BDA3 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

F8-F2-5A (hex) G-Lab GmbH
F8F25A (base 16) G-Lab GmbH
Schiffbaustrasse 10
Zurich CH 8005
CH

8C-8E-76 (hex) taskit GmbH
8C8E76 (base 16) taskit GmbH
Groß-Berliner Damm 37
Berlin 12487
DE

A0-13-3B (hex) HiTi Digital, Inc.
A0133B (base 16) HiTi Digital, Inc.
9F., No.225, Sec. 3, Beixin Rd., Xindian Dist.,
Xindian Dist. New Taipei City 231
TW

B8-BB-6D (hex) ENERES Co.,Ltd.
B8BB6D (base 16) ENERES Co.,Ltd.
1907 Tokyo Art Center
Adahci-ku Tokyo 120-0034
JP

14-37-3B (hex) PROCOM Systems
14373B (base 16) PROCOM
Systems
#1001, Kranz Techno, 5442-1
Seongnam-si Gyunggi-do 462-729
KR

18-97-FF (hex) TechFaith Wireless Technology Limited
1897FF (base 16) TechFaith Wireless Technology Limited
Building C, Jia No.5, Rongchang East Street, BDA District,
Beijing 100176
CN

4C-55-85 (hex) Hamilton Systems
4C5585 (base 16) Hamilton Systems
3143 Production Drive
Fairfield OH 45014
US

CC-C8-D7 (hex) CIAS Elettronica srl
CCC8D7 (base 16) CIAS Elettronica srl
Via Giovanni Durando 38
Milan 20158
IT

84-D3-2A (hex) IEEE 1905.1
84D32A (base 16) IEEE 1905.1
445 Hoes Lane
Piscataway NJ 08855-1331
US

58-2E-FE (hex) Lighting Science Group
582EFE (base 16) Lighting Science Group
1227 South Patrick Drive
Satellite Beach FL 32937
US

30-F9-ED (hex) Sony Corporation
30F9ED (base 16) Sony Corporation
Gotenyama Tec 5-1-2
Tokyo Shinagawa-ku 141-0001
JP

8C-94-CF (hex) Encell
Technology, Inc.
8C94CF (base 16) Encell Technology, Inc.
1412 Sachem Place, Suite 204
Charlottesville VA 22901
US

6C-A7-80 (hex) Nokia Corporation
6CA780 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

EC-EA-03 (hex) DARFON LIGHTING CORP
ECEA03 (base 16) DARFON LIGHTING CORP
167, Shanying Road
Gueishan Taoyuan 33341
TW

CC-60-BB (hex) Empower RF Systems
CC60BB (base 16) Empower RF Systems
316 W. Florence Ave
Inglewood CA 90301
US

7C-DD-20 (hex) IOXOS Technologies S.A.
7CDD20 (base 16) IOXOS Technologies S.A.
4 Chemin de Fontenailles
GLAND VAUD CH-1196
CH

EC-F2-36 (hex) NEOMONTANA ELECTRONICS
ECF236 (base 16) NEOMONTANA ELECTRONICS
Mladost-4, bl. 483, mag. 13
Sofia 1715
BG

04-18-B6 (hex) Private
0418B6 (base 16) Private

E4-A5-EF (hex) TRON LINK ELECTRONICS CO., LTD.

E4A5EF (base 16) TRON LINK ELECTRONICS CO., LTD.
FLAT
A, 20/F., BLOCK 4,ON NING GARDEN,
KOWLOON 999077
HK

70-5C-AD (hex) Konami Gaming Inc
705CAD (base 16) Konami Gaming Inc
585 Trade Center Drive
Las Vegas Nevada 89119
US

3C-6F-45 (hex) Fiberpro Inc.
3C6F45 (base 16) Fiberpro Inc.
59-4 Jang-dong, Yusong-gu
Deajeon 305-343
KR

DC-CE-41 (hex) FE GLOBAL HONG KONG LIMITED
DCCE41 (base 16) FE GLOBAL HONG KONG LIMITED
FLAT 204-205 2/F LAFORD CENTRE838 LAI CHI KOK RD CHEUNG SHA WAN KL
SHENZHEN 518057
CN

FC-6C-31 (hex) LXinstruments GmbH
FC6C31 (base 16) LXinstruments GmbH
Herrenberger Str. 130
Boeblingen 71034
DE

9C-57-11 (hex) Feitian Xunda(Beijing) Aeronautical Information Technology Co., Ltd.
9C5711 (base 16) Feitian Xunda(Beijing) Aeronautical Information Technology Co., Ltd.
Building B,Horizon International Tower,No.6 Zhichun Rd,Haidian District,
Beijing 100088
CN

88-F4-88 (hex) cellon communications
technology(shenzhen)Co.,Ltd.
88F488 (base 16) cellon communications technology(shenzhen)Co.,Ltd.
13/F C Building,Gaoxin S.Ave.,Hi-Tech Industrial Park,Nanshan,shenzhen518057,PRC
shenzhen Guangdong 518057
CN

44-8E-12 (hex) DT Research, Inc.
448E12 (base 16) DT Research, Inc.
2000 Concourse Drive
San Jose CA 95131
US

48-F7-F1 (hex) Nokia
48F7F1 (base 16) Nokia
600 March Road
Kanata Ontario K2K 2E6
CA

30-71-B2 (hex) Hangzhou Prevail Optoelectronic Equipment Co.,LTD.
3071B2 (base 16) Hangzhou Prevail Optoelectronic Equipment Co.,LTD.
Industrial Development Area, Guali Town,
Hangzhou City Zhe Jiang 311241
CN

70-31-87 (hex) ACX GmbH
703187 (base 16) ACX GmbH
Äußere Zwickauer Straße 8
Zwickau 08064
DE

80-97-1B (hex) Altenergy Power System,Inc.
80971B (base 16) Altenergy Power System,Inc.
No.1 Yatai Road,
Jiaxing City, Zhejiang Province, 314050
CN

30-E4-DB
(hex) Cisco Systems, Inc
30E4DB (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E8-4E-06 (hex) EDUP INTERNATIONAL (HK) CO., LTD
E84E06 (base 16) EDUP INTERNATIONAL (HK) CO., LTD
20D Room, Block B, Modern Windows Buidling, FuTian District,
Shenzhen Guangdong 518028
CN

00-07-7D (hex) Cisco Systems, Inc
00077D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E0-C9-22 (hex) Jireh Energy Tech., Ltd.
E0C922 (base 16) Jireh Energy Tech., Ltd.
#606 Seoul Forest Hallasigmavalley, 325-2
Seoul Seongdong-Gu 133-120

KR

90-5F-8D (hex) modas GmbH
905F8D (base 16) modas GmbH
Belziger Str. 69-71
Berlin 10823
DE

58-76-75 (hex) Beijing ECHO Technologies Co.,Ltd
587675 (base 16) Beijing ECHO Technologies Co.,Ltd
NO1 Street 4 Shangdi
BeiJing 100085
CN

0C-51-F7 (hex) CHAUVIN ARNOUX
0C51F7 (base 16) CHAUVIN ARNOUX
LA
QUEUE DEVEE
REUX PONT L EVEQUE 14130
FR

0C-FC-83 (hex) Airoha Technology Corp.,
0CFC83 (base 16) Airoha Technology Corp.,
5F, No.6-5, Dushing Road , Hsinchu Science Park
Hsinchu 300
TW

00-7F-28 (hex) Actiontec Electronics, Inc
007F28 (base 16) Actiontec Electronics, Inc
3301 Olcott St.
Santa Clara CA 95054
US

80-47-31 (hex) Packet Design, Inc.
804731 (base 16) Packet Design, Inc.
2455 Augustine Drive
Santa Clara CA 95054
US

B0-9B-D4 (hex) GNH Software India Private Limited
B09BD4 (base 16) GNH Software India Private Limited
9/14 Sengani Amman Koil Street
Chennai Tamilnadu 600032
IN

F0-8B-FE (hex) COSTEL.,CO.LTD
F08BFE (base 16) COSTEL.,CO.LTD
223-39, Sangdaewon-Dong, Jungwon-Gu

Seongnam-si Kyunggi-Do 462-807
KR

3C-26-D5 (hex) Sotera Wireless
3C26D5 (base 16) Sotera Wireless
9444 Waples Street
San Diego CA 92121
US

00-8D-4E (hex) CJSC
NII STT
008D4E (base 16) CJSC NII STT
N.Leningradskaya str, 10
Smolensk 214012
RU

44-4F-5E (hex) Pan Studios Co.,Ltd.
444F5E (base 16) Pan Studios Co.,Ltd.
1F., NO.402, SEC. 2, JHONGYANG N. RD., BEITOU DISTRICT,
TAIPEI CITY 11258
TW

D0-AF-B6 (hex) Linktop Technology Co., LTD
D0AFB6 (base 16) Linktop Technology Co., LTD
2F Guangye Buliding, Torch Hi-Tech,
Xiamen Fujian 361006
CN

98-EC-65 (hex) Cosesy ApS
98EC65 (base 16) Cosesy ApS
Tyttebaervej 2
Ans Jylland DK-8643
DK

4C-98-EF (hex) Zeo
4C98EF (base 16) Zeo
320 Nevada St
Newton MA 02460
US

B4-5C-A4 (hex) Thing-talk Wireless Communication Technologies Corporation Limited
B45CA4 (base 16) Thing-talk Wireless Communication Technologies Corporation Limited
498 Guo Shou Jing Road, Suite 10402
Shanghai 201203
CN

90-8D-1D (hex) GH Technologies
908D1D (base 16) GH Technologies

5022 Binhe
Road, Block B, United Plaza
Shenzhen 518026
CN

AC-C9-35 (hex) Ness Corporation
ACC935 (base 16) Ness Corporation
4/167 Prospect Highway
Sydney NSW 2147
AU

00-A1-DE (hex) ShenZhen ShiHua Technology CO.,LTD
00A1DE (base 16) ShenZhen ShiHua Technology CO.,LTD
Room505,5/F TsingYi Building,LangShan 2ed Road,High-Tech Industrial Park,
ShenZhen GuangDong 518052
CN

98-F8-DB (hex) Marini Impianti Industriali s.r.l.
98F8DB (base 16) Marini Impianti Industriali s.r.l.
Via delle Province, 6A
Cisterna di Latina 04012
IT

CC-D9-E9 (hex) SCR Engineers Ltd.
CCD9E9 (base 16) SCR Engineers Ltd.
6 Haomanut St.
Netanya 42504
IL

34-A7-09 (hex) Trevil srl
34A709 (base 16) Trevil srl
Via Copernico 1
Pozzo d'Adda MI 20060
IT

98-29-3F (hex) Fujian Start Computer Equipment Co.,Ltd
98293F (base 16) Fujian Start Computer Equipment Co.,Ltd
No.68 Hongshangyuan Road,
Fuzhou
City, Fujian Province, 350002
CN

6C-39-1D (hex) Beijing ZhongHuaHun Network Information center
6C391D (base 16) Beijing ZhongHuaHun Network Information center
6F BeiAo Mansion,HuiXin East Street A2,
Beijing 100029
CN

80-B3-2A (hex) UK Grid Solutions Ltd
80B32A (base 16) UK Grid Solutions Ltd
Harry Kerr Drive
Stafford Staffordshire ST17 4LX
GB

B8-3D-4E (hex) Shenzhen Cultraview Digital Technology Co.,Ltd Shanghai Branch
B83D4E (base 16) Shenzhen Cultraview Digital Technology Co.,Ltd Shanghai Branch
2/F,Building#5,1690Cailun Road,Zhangjiang Hi-tech Park,
Shanghai 201203
CN

50-87-B8 (hex) Nuvyyo Inc
5087B8 (base 16) Nuvyyo Inc
1 Smythe Rd
Carleton Place Ontario K7C4J4
CA

C0-EA-E4 (hex) Sonicwall
C0EAE4 (base 16) Sonicwall
2001 Logic Drive
San Jose CA 95124-3452
US

08-38-A5 (hex) Funkwerk plettac electronic GmbH
0838A5 (base 16) Funkwerk plettac electronic
GmbH
Wuerzburger Str. 150
Fuerth Bavaria 90766
DE

80-6C-BC (hex) NET New Electronic Technology GmbH
806CBC (base 16) NET New Electronic Technology GmbH
Lerchenberg 7
Finning Bavarian 86923
DE

90-90-60 (hex) RSI VIDEO TECHNOLOGIES
909060 (base 16) RSI VIDEO TECHNOLOGIES
56, Rue Jean-Giraudoux - BAT 60
STRASBOURG Bas-Rhin 67200
FR

BC-81-99 (hex) BASIC Co.,Ltd.
BC8199 (base 16) BASIC Co.,Ltd.
Keiefu-Building 9F
Minato-ku Tokyo 108-0014
JP

58-E8-08 (hex) AUTONICS CORPORATION
58E808 (base 16) AUTONICS CORPORATION
41-5 YONGDANG-DONG
YANGSAN-SI KYEONGNAM 626-847
KR

DC-05-ED (hex) Nabtesco Corporation
DC05ED (base 16) Nabtesco Corporation
9-18, Kaigan 1-chome
Minato-ku Tokyo 105-0022
JP

E0-F2-11 (hex) Digitalwatt
E0F211 (base 16) Digitalwatt
Via Dante, 18
Renate Brianza MB 20055
IT

DC-A7-D9 (hex) Compressor Controls Corp
DCA7D9 (base
16) Compressor Controls Corp
4725 121st Street
Des Moines Iowa 50323
US

38-FE-C5 (hex) Ellips B.V.
38FEC5 (base 16) Ellips B.V.
Esp 300
Eindhoven Noord-Brabant 5633 AE
NL

C4-55-A6 (hex) Cadac Holdings Ltd
C455A6 (base 16) Cadac Holdings Ltd
1 New Street
Luton Bedfordshire LU1 5DX
GB

5C-77-57 (hex) Haivision Network Video
5C7757 (base 16) Haivision Network Video
4445 Garand
Montreal QC H4R 2H9
CA

D4-D8-98 (hex) Korea CNO Tech Co., Ltd
D4D898 (base 16) Korea CNO Tech Co., Ltd
#240-1,Uigok-Ri
Mungyeong-Si Gyeongsangbuk-do 745-853

KR

B4-AA-4D (hex) Ensequence, Inc.
B4AA4D (base 16) Ensequence, Inc.
111 SW 5th Ave Suite 1400
Portland OR 97204
US

60-F5-9C (hex) CRU-Dataport
60F59C (base 16) CRU-Dataport
1000 SE Tech Center Drive
Vancouver WA 98683
US

B0-A7-2A (hex) Ensemble Designs, Inc.
B0A72A (base 16) Ensemble Designs, Inc.
870
Gold Flat Road
Nevada City CA 95959
US

64-00-F1 (hex) Cisco Systems, Inc
6400F1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F8-69-71 (hex) Seibu Electric Co.,
F86971 (base 16) Seibu Electric Co.,
1458-7
Hachioji Tokyo 193-0941
JP

B8-F4-D0 (hex) Herrmann Ultraschalltechnik GmbH & Co. Kg
B8F4D0 (base 16) Herrmann Ultraschalltechnik GmbH & Co. Kg
Descostraße 3-9
Karlsbad Baden-Württemberg 76307
DE

08-AC-A5 (hex) Benu Video, Inc.
08ACA5 (base 16) Benu Video, Inc.
300 Concord Rd., Suite #110
Billerica MA 01821
US

58-6D-8F (hex) Cisco-Linksys, LLC
586D8F (base 16) Cisco-Linksys, LLC
121 Theory Drive

Irvine California 92612
US

CC-1E-FF (hex) Metrological Group BV
CC1EFF (base 16) Metrological Group BV
Mariniersweg 151
Rotterdam Zuid-Holland 3011NK
NL

18-4E-94 (hex) MESSOA TECHNOLOGIES INC.
184E94 (base 16) MESSOA
TECHNOLOGIES INC.
13611 12th St., Unit B
Chino CA 91710
US

40-55-39 (hex) Cisco Systems, Inc
405539 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

74-65-D1 (hex) Atlinks
7465D1 (base 16) Atlinks
30 Avenue Geroge V
Paris 75008
FR

44-AA-27 (hex) udworks Co., Ltd.
44AA27 (base 16) udworks Co., Ltd.
#810, Byuksan3cha Digital Valley, 212-13, Guro-dong, Guro-gu
Seoul 152-775
KR

E8-F9-28 (hex) RFTECH SRL
E8F928 (base 16) RFTECH SRL
VIA VENETO, 22
SCHIO VICENZA 36015
IT

1C-95-5D (hex) I-LAX ELECTRONICS INC.
1C955D (base 16) I-LAX ELECTRONICS INC.
2283 ARGENTIA RD.- UNIT # 10
MISSISSAUGA ON. L5N 5Z2
CA

04-0A-83 (hex) Alcatel-Lucent
040A83 (base 16) Alcatel-Lucent

Via Trento, 30
Vimenrcate MB 2059
IT

C4-56-00 (hex) Galleon Embedded Computing
C45600 (base 16) Galleon Embedded Computing
Grenseveien 97c
Oslo
Oslo N-0602
NO

10-E3-C7 (hex) Seohwa Telecom
10E3C7 (base 16) Seohwa Telecom
678 Seohwa Bldg
Gasan-Dong, Gumcheon-Gu Seoul 153-803
KR

D0-A3-11 (hex) Neuberger Gebäudeautomation GmbH
D0A311 (base 16) Neuberger Gebäudeautomation GmbH
Oberer Kaiserweg 6
Rothenburg o.d.T. Bayern 91541
DE

04-1D-10 (hex) Dream Ware Inc.
041D10 (base 16) Dream Ware Inc.
5-23-7 Masugata, Tama-ku,
Kawasaki Kanagawa 214-0032
JP

80-14-40 (hex) Sunlit System Technology Corp
801440 (base 16) Sunlit System Technology Corp
8F, No.19,Lane 120, Sec1, Neihu Rd.
Tapiei 114
TW

88-DD-79 (hex) Voltaire
88DD79 (base 16) Voltaire
13, Zarchin St
Raanana 43662
IL

58-EE-CE (hex) Icon Time Systems
58EECE (base 16) Icon Time Systems
15201 NW Greenbrier Parkway
Beaverton OR 97006
US

64-7F-DA (hex) TEKTELIC Communications Inc.

647FDA (base 16) TEKTELIC Communications Inc.
7657
10th Street NE
Calgary Alberta T2E 8X2
CA

AC-06-13 (hex) Senselogix Ltd
AC0613 (base 16) Senselogix Ltd
56 Carlton Court, Ford William Morgan
St. Asaph Debighshire LL17 0JG
GB

74-78-18 (hex) Jurumani Solutions
747818 (base 16) Jurumani Solutions
321 14th Road
Midrand 1685
ZA

18-0B-52 (hex) Nanotron Technologies GmbH
180B52 (base 16) Nanotron Technologies GmbH
Alt-Moabit 60
Berlin 10555
DE

DC-07-C1 (hex) HangZhou QiYang Technology Co.,Ltd.
DC07C1 (base 16) HangZhou QiYang Technology Co.,Ltd.
Floor 5, Building 2, Road XiYuanYi, WestLake Technology Park,
HangZhou ZheJiang 310028
CN

A8-1B-18 (hex) XTS CORP
A81B18 (base 16) XTS CORP
10125 NW 116TH WAY, SUITE 5
MEDLEY FLORIDA 33178
US

C0-A2-6D (hex) Abbott Point of Care
C0A26D (base 16) Abbott Point of Care
400 College Road East
Princeton NJ 08540
US

00-BB-8E (hex) HME Co., Ltd.
00BB8E
(base 16) HME Co., Ltd.
No.200 , Liao Bei Str.,San Min Dist.,
Kaohsiung 807
TW

D8-2A-7E (hex) Nokia Corporation
D82A7E (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

80-1F-02 (hex) Edimax Technology Co. Ltd.
801F02 (base 16) Edimax Technology Co. Ltd.
No. 278, Xinhu 1st Road
Taipei City Neihu Dist 248
TW

44-25-BB (hex) Bamboo Entertainment Corporation
4425BB (base 16) Bamboo Entertainment Corporation
179 South Street
Boston MA 02111
US

E0-0C-7F (hex) Nintendo Co., Ltd.
E00C7F (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

E4-8A-D5 (hex) RF WINDOW CO., LTD.
E48AD5 (base 16) RF WINDOW CO., LTD.
14F, Daerung Posttower3
Seoul 152-746
KR

44-37-19 (hex) 2 Save Energy Ltd
443719 (base 16) 2 Save Energy Ltd
The Annexe, Field House Barn
Sherborne St John Hampshire RG24 9LR
GB

84-EA-99
(hex) Vieworks
84EA99 (base 16) Vieworks
6F Suntechcity 2,307-2 Sangdaewon-dong, Jungwon-gu
Seongnam Gyeonggi 462-806
KR

BC-3E-13 (hex) Accordance Systems Inc.
BC3E13 (base 16) Accordance Systems Inc.
2F, No. 31, Sec. 6, Hsin Yi Road
Taipei 11085

TW

FC-F1-CD (hex) OPTEX-FA CO.,LTD.
FCF1CD (base 16) OPTEX-FA CO.,LTD.
91 Awata-cho
Kyoto 600-8815
JP

94-CD-AC (hex) Creowave Oy
94CDAC (base 16) Creowave Oy
Lentokatu 2
Oulunsalo FIN-90460
FI

7C-DA-84 (hex) Dongnian Networks Inc.
7CDA84 (base 16) Dongnian Networks Inc.
90 Wensan Road, Building 8-A303
Hangzhou Zhejiang 310012
CN

BC-C6-1A (hex) SPECTRA EMBEDDED SYSTEMS
BCC61A (base 16) SPECTRA EMBEDDED SYSTEMS
Khasra No. 24, Village Ghumman,1st Floor, Chawla Mansion,
Parwanoo Himachal Pradesh 173 220
IN

04-70-BC (hex) Globalstar Inc.
0470BC (base 16) Globalstar Inc.
461 S Milpitas
Blvd
Milpitas CA 95035
US

FC-35-98 (hex) Favite Inc.
FC3598 (base 16) Favite Inc.
No.19, Lane 78, Yanhe St.,
Jhubei City Hsinchu County 302
TW

90-D9-2C (hex) HUG-WITSCHI AG
90D92C (base 16) HUG-WITSCHI AG
Auriedstrasse 10
Boesingen Fribourg 3178
CH

98-94-49 (hex) Skyworth Wireless Technology Ltd.
989449 (base 16) Skyworth Wireless Technology Ltd.
Unit A Rm.3A01, Skyworth Bldg., Gaoxin Ave. 1.S.,

Nanshan District Shenzhen 518057
CN

2C-A1-57 (hex) acromate, Inc.
2CA157 (base 16) acromate, Inc.
#1101, JnK Digital Tower, 111
Seoul 152-848
KR

94-20-53 (hex) Nokia Corporation
942053 (base 16) Nokia Corporation
Elektroniikkatie 10
Oulu 90570
FI

D4-E3-2C (hex) S. Siedle & Sohne
D4E32C (base 16) S. Siedle & Sohne
Bregstrasse 1
Furtwangen D-78120
DE

64-F9-87 (hex) Avvasi Inc.
64F987 (base 16) Avvasi Inc.
103 Randall Dr.
Waterloo
ON N2V 1C5
CA

90-2E-87 (hex) LabJack
902E87 (base 16) LabJack
3232 S Vance St STE 100
Lakewood CO 80227
US

7C-6A-DB (hex) SafeTone Technology Co.,Ltd
7C6ADB (base 16) SafeTone Technology Co.,Ltd
Room 323,ZhuouJi Plaza,No.16 AnDe Road,East District,
Beijing 100011
CN

A4-24-B3 (hex) FlatFrog Laboratories AB
A424B3 (base 16) FlatFrog Laboratories AB
Magistratsvägen 10
Lund Skåne 22643
SE

14-4C-1A (hex) Max Communication GmbH
144C1A (base 16) Max Communication GmbH

Siemensstrasse 47
Rellingen 25462
DE

D8-5D-84 (hex) CAx soft GmbH
D85D84 (base 16) CAx soft GmbH
Noettinger Strasse 3
Karlsbad BW 76307
DE

B8-BA-68 (hex) Xi'an Jizhong Digital Communication Co.,Ltd
B8BA68 (base 16) Xi'an Jizhong Digital Communication Co.,Ltd
10 Block NO.1 Enterprise Newly-typed Industrial Zone High-Tech Zone XiÂ¡Â¯an,China
Xi'an ShaanXi 710119
CN

B0-B3-2B (hex) Slican
Sp. z o.o.
B0B32B (base 16) Slican Sp. z o.o.
M. Konopnickiej 18
Bydgoszcz Kujawsko-Pomorskie 85-124
PL

58-42-E4 (hex) Baxter International Inc
5842E4 (base 16) Baxter International Inc
One Baxter Parkway
Deerfield IL 60015
US

CC-9E-00 (hex) Nintendo Co., Ltd.
CC9E00 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

F0-5D-89 (hex) Dycon Limited
F05D89 (base 16) Dycon Limited
Unit D
Mountain Ash Rhondda Cynon Taff CF45 4ER
GB

9C-F9-38 (hex) AREVA NP GmbH
9CF938 (base 16) AREVA NP GmbH
Seligenstaedter Str. 100
Karlstein Germany 63791
DE

8C-DB-25 (hex) ESG Solutions

8CDB25 (base 16) ESG Solutions
20 Hyperion Court
Kingston Ontario K7K 7K2
CA

58-A7-6F (hex) iD corporation
58A76F (base 16) iD corporation
goryokaku bld. 2F
hakodate hokkaido 040-0011
JP

00-06-F6 (hex) Cisco Systems,
Inc
0006F6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

74-7D-B6 (hex) Aliwei Communications, Inc
747DB6 (base 16) Aliwei Communications, Inc
Keji 6 Road , Hi-tech Industrial Park
Shenzhen Guangdong 518057
CN

B0-65-63 (hex) Shanghai Railway Communication Factory
B06563 (base 16) Shanghai Railway Communication Factory
No.179 West Jiangchang road
Shanghai 200436
CN

AC-6F-4F (hex) Enspert Inc
AC6F4F (base 16) Enspert Inc
2F., Daehwa B/D,
Seoul 135090
KR

E8-28-77 (hex) TMY Co., Ltd.
E82877 (base 16) TMY Co., Ltd.
Attic Bldg. 3F, 1-2-10 Ise-cho,
Ashikaga-shi Tochigi 326-0053
JP

6C-2E-33 (hex) Accelink Technologies Co.,Ltd.
6C2E33 (base 16) Accelink Technologies Co.,Ltd.
88 Youkeyuan Road,
Wuhan Hubei 430074
CN

40-98-7B (hex) Aisino Corporation
40987B (base 16) Aisino Corporation
No.18 A,Xingshikou Road,Haidian District,
Beijing
100195
CN

BC-38-D2 (hex) Pandachip Limited
BC38D2 (base 16) Pandachip Limited
Unit 210, 2/F (Lakeside 1), Building 15, No. 8 Science Park West Avenue
Shatin, N.T.
HK

98-8E-34 (hex) ZHEJIANG BOXSAM ELECTRONIC CO.,LTD
988E34 (base 16) ZHEJIANG BOXSAM ELECTRONIC CO.,LTD
No.288,LONGTAN ROAD,
JINHUA CITY ZHEJIANG PROVINCE, 321017
CN

C4-71-FE (hex) Cisco Systems, Inc
C471FE (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

34-08-04 (hex) D-Link Corporation
340804 (base 16) D-Link Corporation
No.289, Sinhu 3rd Rd., Neihu District,
Taipei City 114
TW

F0-C8-8C (hex) LeddarTech Inc.
F0C88C (base 16) LeddarTech Inc.
2740 Einstein Street
Quebec City G1P 4S4
CA

40-18-D7 (hex) Smartronix, Inc.
4018D7 (base 16) Smartronix, Inc.
44150 Smartronix Way
Hollywood MD 20636
US

40-22-ED (hex) Digital Projection Ltd
4022ED
(base 16) Digital Projection Ltd
Greenside Way
Manchester Lancs M24 1XX

GB

28-85-2D (hex) Touch Networks
28852D (base 16) Touch Networks
2515 152nd Ave NE
Redmond Washington 98052
US

48-6B-91 (hex) Fleetwood Group Inc.
486B91 (base 16) Fleetwood Group Inc.
11832 James St
Holland Michigan 49424
US

40-37-AD (hex) Macro Image Technology, Inc.
4037AD (base 16) Macro Image Technology, Inc.
East Bldg., 6th Floor, IT Venture Tower,
Seoul 138-950
KR

28-ED-58 (hex) JAG Jakob AG
28ED58 (base 16) JAG Jakob AG
Industriestrasse 20
BRUEGG BE 2555
CH

B8-79-7E (hex) Secure Meters (UK) Limited
B8797E (base 16) Secure Meters (UK) Limited
Secure House
Winchester Hampshire SO23 7RX
GB

E8-75-7F (hex) FIRS Technologies(Shenzhen) Co., Ltd
E8757F (base 16) FIRS Technologies(Shenzhen) Co., Ltd
Rm 12A, Area A, Hongsong Business Building, Tairan 9th Rd, Chegongmiao,

Shenzhen Guangdong 518040
CN

F0-F7-B3 (hex) Phorm
F0F7B3 (base 16) Phorm
222 Regent Street
London W1B 5TR
GB

00-D3-8D (hex) Hotel Technology Next Generation
00D38D (base 16) Hotel Technology Next Generation
650 E. Algonquin Road

Schaumburg IL 60173
US

C8-3E-A7 (hex) KUNBUS GmbH
C83EA7 (base 16) KUNBUS GmbH
Heerweg 15C
Denkendorf BW D-73770
DE

64-34-09 (hex) BITwave Pte Ltd
643409 (base 16) BITwave Pte Ltd
2 Serangoon North Ave 5
554911
SG

74-CD-0C (hex) Smith Myers Communications Ltd.
74CD0C (base 16) Smith Myers Communications Ltd.
The Omega Centre
Biggleswade BEDS SG18 8QB
GB

CC-CE-40 (hex) Janteq Corp
CCCE40 (base 16) Janteq Corp
9272 Jeronimo Road
Irvine CA 92618
US

B8-EE-79 (hex) YWire Technologies, Inc.
B8EE79 (base 16) YWire Technologies, Inc.
1372 Overdale
Montreal QC H3G 1V3
CA

40-C2-45 (hex) Shenzhen
Hexicom Technology Co., Ltd.
40C245 (base 16) Shenzhen Hexicom Technology Co., Ltd.
1510 West Building,Nanshan Software Park, Nanshan Dist.
Shenzhen Guangdong 518053
CN

CC-55-AD (hex) RIM
CC55AD (base 16) RIM
Phillip Street
Waterloo Ontario N2L 3W8
CA

60-89-3C (hex) Thermo Fisher Scientific P.O.A.
60893C (base 16) Thermo Fisher Scientific P.O.A.

46 Jonspin Rd.
Wilmington MA 01887
US

D8-6B-F7 (hex) Nintendo Co., Ltd.
D86BF7 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

20-05-E8 (hex) OOO InProMedia
2005E8 (base 16) OOO InProMedia
pr.4806, d.6
Zelenograd Moscow 124466
RU

F0-02-48 (hex) SmarteBuilding
F00248 (base 16) SmarteBuilding
3267 Bee Cave Road
Austin TX 78746
US

4C-2C-80 (hex) Beijing Skyway Technologies Co.,Ltd
4C2C80 (base 16) Beijing Skyway Technologies Co.,Ltd
No.5 Jiangtai Road,

Beijing 100015
CN

D4-9E-6D (hex) Wuhan Zhongyuan Huadian Science & Technology Co.,
D49E6D (base 16) Wuhan Zhongyuan Huadian Science & Technology Co.,
NO.6, 6 Road, Sci. & Tech. region of HUST, East Lake Development Zone,
Wuhan Hubei 430223
CN

60-63-FD (hex) Transcend Communication Beijing Co.,Ltd.
6063FD (base 16) Transcend Communication Beijing Co.,Ltd.
A-6,Keshi plaza,28#,Information Road
Beijing 100085
CN

74-BE-08 (hex) ATEK Products, LLC
74BE08 (base 16) ATEK Products, LLC
210 NE 10th Avenue
Brainerd MN 56401
US

74-D6-75 (hex) WYMA Tecnologia

74D675 (base 16) WYMA Tecnologia
Rua Clímaco Barbosa, 171-179
São Paulo 01523-000
BR

B4-0E-DC (hex) LG-Ericsson Co.,Ltd.
B40EDC (base 16) LG-Ericsson Co.,Ltd.
533,Hogye-1dong,Dongan-gu
Anyang-shi Kyungki-do 431-749
KR

E0-EE-1B (hex) Panasonic Automotive Systems Company of America
E0EE1B (base 16) Panasonic
Automotive Systems Company of America
776 Highway 74 South
Peachtree City Georgia 30269
US

10-0C-24 (hex) pomdevices, LLC
100C24 (base 16) pomdevices, LLC
178 Colvard Park Dr
Durham NC 27713
US

58-F6-BF (hex) Kyoto University
58F6BF (base 16) Kyoto University
Yoshida-Hommachi
Kyoto 6068501
JP

84-97-B8 (hex) Memjet Inc.
8497B8 (base 16) Memjet Inc.
15920 Bernardo Center Drive
San Diego CA 92127
US

A0-DD-E5 (hex) SHARP Corporation
A0DDE5 (base 16) SHARP Corporation
22-22,Nagaike-cho
Osaka city Osaka prefecture 545-8522
JP

AC-34-CB (hex) Shanhai GBCOM Communication Technology Co. Ltd
AC34CB (base 16) Shanhai GBCOM Communication Technology Co. Ltd
Room 602, Building 6, No.555 Dongchuan Road
Shanghai 200241
CN

90-88-A2 (hex) IONICS TECHNOLOGY ME LTDA
9088A2 (base 16) IONICS TECHNOLOGY ME LTDA
RUA DEP. ANTONIO EDU VIEIRA
FLORIAN POLIS SANTA CATARINA
88040000
BR

00-33-6C (hex) SynapSense Corporation
00336C (base 16) SynapSense Corporation
2365 Iron Point Road, Suite 100
Folsom CA 95630
US

74-A4-A7 (hex) QRS Music Technologies, Inc.
74A4A7 (base 16) QRS Music Technologies, Inc.
269 Quaker Drive
Seneca PA 16346
US

40-CD-3A (hex) Z3 Technology
40CD3A (base 16) Z3 Technology
2720 Harrison St
Evanston IL 60201
US

48-2C-EA (hex) Motorola Inc Business Light Radios
482CEA (base 16) Motorola Inc Business Light Radios
8000 W Sunrise Boulevard
Plantation Florida 33324
US

D8-B6-C1 (hex) NetworkAccountant, Inc.
D8B6C1 (base 16) NetworkAccountant, Inc.
12101 Tukwila International Blvd.
Seattle Washington 98168
US

AC-61-23 (hex) Drivven, Inc.
AC6123 (base 16) Drivven, Inc.
12001 Network Boulevard
San Antonio TX 78249
US

F8-66-F2 (hex) Cisco Systems, Inc
F866F2 (base 16) Cisco Systems, Inc
80
West Tasman Drive
San Jose CA 94568

US

20-6A-FF (hex) Atlas Elektronik UK Limited
206AFF (base 16) Atlas Elektronik UK Limited
A22 Buliding, Dorset Green Tech. Park
Dorchester Dorset DT2 8ZB
GB

F4-55-E0 (hex) Niceway CNC Technology Co.,Ltd.Hunan Province
F455E0 (base 16) Niceway CNC Technology Co.,Ltd.Hunan Province
5/F,Innovation-Undertaking Center,HuanBao Industrial Park,199#,ZhenHua Road,
Changsha Hunan 410116
CN

20-FD-F1 (hex) 3COM EUROPE LTD
20FDF1 (base 16) 3COM EUROPE LTD
Peoplebuilding 2
Hemel Hempstead HERTS. HP2 4NW
GB

A4-21-8A (hex) Nortel Networks
A4218A (base 16) Nortel Networks
CARRETERA BASE AEREA # 5850
Zapopan Jalisco 44130
MX

0C-15-C5 (hex) SDTEC Co., Ltd.
0C15C5 (base 16) SDTEC Co., Ltd.
167, Churye-2Dong, Sasang-Gu,
Busan 617-716
KR

F8-FB-2F (hex) Santur Corporation
F8FB2F (base 16) Santur Corporation
40931 Encyclopedia Circle
Fremont
California 94538
US

2C-CD-43 (hex) Summit Technology Group
2CCD43 (base 16) Summit Technology Group
145 Belmont Drive
Somerset NJ 08873
US

EC-23-68 (hex) IntelliVoice Co.,Ltd.
EC2368 (base 16) IntelliVoice Co.,Ltd.
3-6 Kioicho

Chiyoda Tokyo 102-0094
JP

74-90-50 (hex) Renesas Electronics Corporation
749050 (base 16) Renesas Electronics Corporation
1753, Shimonumabe, Nakahara-Ku
Kawasaki Kanagawa 211-8668
JP

7C-EF-18 (hex) Creative Product Design Pty. Ltd.
7CEF18 (base 16) Creative Product Design Pty. Ltd.
82 Victoria Street
Sandringham Victoria 3191
AU

64-99-5D (hex) LGE
64995D (base 16) LGE
60-39 , Kasan -dong , Gumcheon-gu.
Seoul 153-801
KR

FC-7C-E7 (hex) FCI USA LLC
FC7CE7 (base 16) FCI USA LLC
825 Old Trail Road
Etters PA 17319
US

14-54-12 (hex) Entis Co., Ltd.
145412 (base 16) Entis Co., Ltd.
2-20-6, Hanaoka
Bldg, 6F
Tokyo 1030007
JP

78-EC-22 (hex) Shanghai Qihui Telecom Technology Co., LTD
78EC22 (base 16) Shanghai Qihui Telecom Technology Co., LTD
Room 501, No 2 BoYun Rd, PuDong New Area,
Shanghai 201203
CN

70-02-58 (hex) 01DB-METRAVIB
700258 (base 16) 01DB-METRAVIB
200 CHEMIN DES ORMEAUX
LIMONEST CEDEX RHONE 69578
FR

FC-75-E6 (hex) Handreamnet
FC75E6 (base 16) Handreamnet

#1209 MarioTower, 222-12, Guro-Dong, Guro-Gu
Seoul Guro-Gu 152-848
KR

24-45-97 (hex) GEMUE Gebr. Mueller Apparatebau
244597 (base 16) GEMUE Gebr. Mueller Apparatebau
Fritz-Mueller-Strasse 6-8
Ingelfingen Criesbach 74653
DE

78-81-8F (hex) Server Racks Australia Pty Ltd
78818F (base 16) Server Racks Australia Pty Ltd
4 - 6 Endurance Ave
Queanbeyan NSW 2620
AU

28-48-46 (hex) GridCentric Inc.
284846 (base 16) GridCentric Inc.
350 Bloor St. E
Toronto Ontario M4W 0A1
CA

30-69-4B
(hex) RIM
30694B (base 16) RIM
295 Phillip Street
Waterloo Ontario N2L 3W8
CA

EC-FE-7E (hex) BlueRadios, Inc.
ECFE7E (base 16) BlueRadios, Inc.
7173 S. Havana Street, Suite 600
Englewood Colorado 80112
US

E4-AD-7D (hex) SCL Elements
E4AD7D (base 16) SCL Elements
5800 St-Denis, #222
Montreal Quebec H2S3l5
CA

F0-9C-BB (hex) RaonThink Inc.
F09CBB (base 16) RaonThink Inc.
916, Byucksan Digital Valley 2-Cha, 481-10, Kasan-Dong, Kumcheon-Gu,
Seoul 153-783
KR

80-EE-73 (hex) Shuttle Inc.

80EE73 (base 16) Shuttle Inc.
No. 30 Lane 76, Rei Kuang Rd
Taipei 114
TW

FC-E2-3F (hex) CLAY PAKY SPA
FCE23F (base 16) CLAY PAKY SPA
Via Pastrengo 3/b
Seriate Bergamo 24068
IT

BC-A9-D6 (hex) Cyber-Rain, Inc.
BCA9D6 (base 16) Cyber-Rain, Inc.
5272 Evanwood Avenue
Oak Park California 91377-4809
US

3C-10-6F (hex) ALBAHITH TECHNOLOGIES
3C106F
(base 16) ALBAHITH TECHNOLOGIES
165, King Abdullah Second Street
Amman 11953
JO

D8-71-57 (hex) Lenovo Mobile Communication Technology Ltd.
D87157 (base 16) Lenovo Mobile Communication Technology Ltd.
No.999,Qishan North 2nd Road,Information&Optoelectronics Park,Torch Hi-tech Industry Development Zone,
Xiamen Fujian 361006
CN

C0-0D-7E (hex) Additech, Inc.
C00D7E (base 16) Additech, Inc.
10925 Kinghurst
Houston TX 77099
US

84-C7-A9 (hex) C3PO S.A.
84C7A9 (base 16) C3PO S.A.
Alejandro Goicoechea 6 Local 9
Sant Just Desvern Barcelona ES08960
ES

60-9A-A4 (hex) GVI SECURITY INC.
609AA4 (base 16) GVI SECURITY INC.
2801 TRADE CENTER DR STE.120
CARROLLTON TX 75007
US

64-10-84 (hex) HEXIUM Technical Development Co., Ltd.
641084 (base 16) HEXIUM Technical Development Co., Ltd.
Vaci ut 51b
BUDAPEST H-1134
HU

6C-62-6D (hex) Micro-Star INT'L CO., LTD
6C626D
(base 16) Micro-Star INT'L CO., LTD
No.69, Lide St., Jhonghe City
Taipei Conuty 235
TW

28-06-8D (hex) ITL, LLC
28068D (base 16) ITL, LLC
P.O. Box 41875
Nashville TN 37204
US

34-21-09 (hex) Jensen Scandinavia AS
342109 (base 16) Jensen Scandinavia AS
Balder Allé 3
Jessheim 2050
NO

7C-3E-9D (hex) PATECH
7C3E9D (base 16) PATECH
#23-17. WonhyoRo-2Ga
YongSan-Gu Seoul 140112
KR

58-57-0D (hex) Danfoss Solar Inverters
58570D (base 16) Danfoss Solar Inverters
Jyllandsgade 28
Sønderborg DK-6400
DK

10-CC-DB (hex) AXIMUM PRODUITS ELECTRONIQUES
10CCDB (base 16) AXIMUM PRODUITS ELECTRONIQUES
ZI DELTA INDUSTRIE
MARSEILLE CEDEX 11 13368
FR

38-C7-BA (hex) CS Services Co.,Ltd.
38C7BA (base 16) CS Services Co.,Ltd.
Imon BLDG 95 Edomachi
Kobe Hyogo 6500033
JP

8C-D6-28 (hex) Ikor Metering
8CD628 (base 16) Ikor Metering
Francisco Grandmontagne
4
San Sebastian Guipuzcoa 20008
ES

24-3C-20 (hex) Dynamode Group
243C20 (base 16) Dynamode Group
Head Office, 132a St Albans Road
Watford Herts WD24 4AE
GB

48-1B-D2 (hex) Intron Scientific co., ltd.
481BD2 (base 16) Intron Scientific co., ltd.
6F., NO. 136,Sec 2,Keelung Rd., Da-an district
Taipei 106
TW

F0-43-35 (hex) DVN(Shanghai)Ltd.
F04335 (base 16) DVN(Shanghai)Ltd.
11F,Hechuan Building,2016 Yishan Rd,
Shanghai 201103
CN

A4-79-E4 (hex) KLINFO Corp
A479E4 (base 16) KLINFO Corp
301 923 wolpyung-dong
Daejeon 302-852
KR

EC-5C-69 (hex) MITSUBISHI HEAVY INDUSTRIES MECHATRONICS SYSTEMS,LTD.
EC5C69 (base 16) MITSUBISHI HEAVY INDUSTRIES MECHATRONICS SYSTEMS,LTD.
1-16,5-CHOME,KOMATSU-DORI,
KOBE HYOGO 652-0865
JP

6C-92-BF (hex) Inspur Electronic Information Industry Co.,Ltd.
6C92BF (base 16) Inspur Electronic Information Industry Co.,Ltd.
No 224 Shanda
Road
Jinan Shandong 250013
CN

8C-54-1D (hex) LGE
8C541D (base 16) LGE
60-39 , Kasan -dong , Gumcheon-gu.

Seoul 153-801
KR

00-A2-DA (hex) INAT GmbH
00A2DA (base 16) INAT GmbH
Ostendstraße 50A
Nuremberg Bavaria 90482
DE

6C-3E-9C (hex) KE Knestel Elektronik GmbH
6C3E9C (base 16) KE Knestel Elektronik GmbH
Osterwalder Str. 12
Hopferbach Bavaria 87496
DE

44-A8-C2 (hex) SEWOO TECH CO., LTD
44A8C2 (base 16) SEWOO TECH CO., LTD
689-20 GEUMJUNG-DONG
GUNPO-SI KYUNGGI-DO 435-862
KR

D0-F0-DB (hex) Ericsson
D0F0DB (base 16) Ericsson
250 Holger Way
SAN JOSE CA 95134
US

7C-14-76 (hex) Damall Technologies SAS
7C1476 (base 16) Damall Technologies SAS
Corso della Repubblica 65
Fabriano Ancona 60044
IT

C4-82-3F (hex) Fujian Newland Auto-ID Tech. Co,.Ltd.
C4823F (base 16) Fujian Newland Auto-ID Tech. Co,.Ltd.
Newland Science & Technology
Park, No.1 Rujiang West Rd., Mawei
Fuzhou Fujian 350015
CN

E8-5B-5B (hex) LG ELECTRONICS INC
E85B5B (base 16) LG ELECTRONICS INC
19-1, CHEONGHO-RI, JINWI-MYEON
PYEONGTAEK GYEONGGI-DO 451-713
KR

00-3C-C5 (hex) WONWOO Engineering Co., Ltd
003CC5 (base 16) WONWOO Engineering Co., Ltd

7F 201, Techno-Park SsangYong III,
Bucheon City Gyeonggi-Do 421-808
KR

88-4B-39 (hex) Siemens AG, Healthcare Sector
884B39 (base 16) Siemens AG, Healthcare Sector
Henkestrasse 127
Erlangen Bavaria 91052
DE

D8-28-C9 (hex) General Electric Consumer and Industrial
D828C9 (base 16) General Electric Consumer and Industrial
AP35-1405
Louisville KY 40225
US

44-C2-33 (hex) Guangzhou Comet Technology Development Co.Ltd
44C233 (base 16) Guangzhou Comet Technology Development Co.Ltd
Rm 304,FL 3,Block G,Science and Technology Innovation Base,
Guangzhou Guangdong 510663
CN

E4-35-93 (hex) Hangzhou
GoTo technology Co.Ltd
E43593 (base 16) Hangzhou GoTo technology Co.Ltd
Room 1303,Boee buliding,3760 Nanhuan Road, Binjiang,
Hangzhou Zhejiang 310053
CN

2C-3A-28 (hex) Fagor Electrónica
2C3A28 (base 16) Fagor Electrónica
B. San Andres, s/n
Mondragón Guipuzcoa 20500
ES

7C-2C-F3 (hex) Secure Electrans Ltd
7C2CF3 (base 16) Secure Electrans Ltd
Pioneer House, Pioneer Business Park
Ellesmere Port CH65 1AD
GB

08-16-51 (hex) SHENZHEN SEA STAR TECHNOLOGY CO.,LTD
081651 (base 16) SHENZHEN SEA STAR TECHNOLOGY CO.,LTD
Seastar industrial Park, BaoLong 6th Ave
ShenZhen GuangDong 518116
CN

30-41-74 (hex) ALTEC LANSING LLC

304174 (base 16) ALTEC LANSING LLC
535 ROUTES 6 & 209
MILFORD PA 18337
US

3C-39-C3 (hex) JW Electronics Co., Ltd.
3C39C3 (base 16) JW Electronics Co., Ltd.
3A17, No. 5 Hsin-yi Rd., Sec. 5
Taipei 110
TW

3C-05-AB (hex) Product Creation Studio
3C05AB
(base 16) Product Creation Studio
425 Westlake Ave N
Seattle WA 98109
US

30-EF-D1 (hex) Alstom Strongwish (Shenzhen) Co., Ltd.
30EFD1 (base 16) Alstom Strongwish (Shenzhen) Co., Ltd.
5F,Building No.6, Keji Middle 2 Road High-Tech Industrial Park,
Shen Zhen Guangdong 518057
CN

D4-1F-0C (hex) JAI Manufacturing
D41F0C (base 16) JAI Manufacturing
2960-14 Uenojo Nishikata
Kushima Miyazaki 888-0004
JP

80-F5-93 (hex) IRCO Sistemas de Telecomunicación S.A.
80F593 (base 16) IRCO Sistemas de Telecomunicación S.A.
Via Sergia 98
Mataró Barcelona 08302
ES

EC-DE-3D (hex) Lamprey Networks, Inc.
ECDE3D (base 16) Lamprey Networks, Inc.
58 Dover Road
Durham NH 03824
US

6C-FF-BE (hex) MPB Communications Inc.
6CFFBE (base 16) MPB Communications Inc.
147 Hymus Blvd
Pointe-Claire Quebec H9R 1E9
CA

E4-97-F0 (hex) Shanghai VLC Technologies Ltd. Co.
E497F0 (base
16) Shanghai VLC Technologies Ltd. Co.
Room 901, B-Zone, East Beijing Road
Shanghai 200001
CN

B4-08-32 (hex) TC Communications
B40832 (base 16) TC Communications
17575 Cartwright Road
Irvine CA 92614
US

88-FD-15 (hex) LINEEYE CO., LTD
88FD15 (base 16) LINEEYE CO., LTD
5F Marufuku Bldg. 39-1 Karahashi
Kyoto 601-8468
JP

A8-63-DF (hex) DISPLAIRE CORPORATION
A863DF (base 16) DISPLAIRE CORPORATION
1300 Valley House Dr, Ste 100
Rohnert Park CA 94928
US

18-3B-D2 (hex) BYD Precision Manufacture Company Ltd.
183BD2 (base 16) BYD Precision Manufacture Company Ltd.
No3000 LongDong Avenue, Pudong District
Shanghai 201203
CN

4C-C6-02 (hex) Radios, Inc.
4CC602 (base 16) Radios, Inc.
31355 State Road 46
Sorrenot Floriad 32776
US

B4-58-61 (hex) CRemote, LLC
B45861 (base 16) CRemote, LLC
1195 Noel Drive
MENLO PARK CA 94025
US

B0-97-3A (hex) E-Fuel
Corporation
B0973A (base 16) E-Fuel Corporation
15466 Los Gatos Blvd. #37
Los Gatos CA 95032

US

20-4E-6B (hex) Axxana(israel) ltd
204E6B (base 16) Axxana(israel) ltd
Habarzel 38
Tel aviv 69710
IL

F0-77-D0 (hex) Xcellen
F077D0 (base 16) Xcellen
15F KINS Tower 25-1,Jeongja-dong,Bungdang-gu,
Seongnam Gyeonggi 463811
KR

80-B2-89 (hex) Forworld Electronics Ltd.
80B289 (base 16) Forworld Electronics Ltd.
No.16 Keyuan 2nd Rd., Situn District
Taichung City 886
TW

E8-3A-97 (hex) Toshiba Corporation
E83A97 (base 16) Toshiba Corporation
1-1-1, Shibaura, Minato-ku
Tokyo 00000
JP

10-56-CA (hex) Peplink International Ltd.
1056CA (base 16) Peplink International Ltd.
17/F, Park Building,
Cheung Sha Wan
HK

D4-9C-28 (hex) JayBird LLC
D49C28 (base 16) JayBird LLC
3676 California Ave
Salt Lake City UT 84104
US

48-6F-D2 (hex) StorSimple
Inc
486FD2 (base 16) StorSimple Inc
2350 Mission College Blvd
Santa Clara CA 95054
US

A0-3A-75 (hex) PSS Belgium N.V.
A03A75 (base 16) PSS Belgium N.V.
Hoogveld 50

Dendermonde 9200
BE

24-DB-AD (hex) ShopperTrak RCT Corporation
24DBAD (base 16) ShopperTrak RCT Corporation
200 W. Monroe Street
Chicago IL 60606
US

04-0E-C2 (hex) ViewSonic Mobile China Limited
040EC2 (base 16) ViewSonic Mobile China Limited
Room 601, The Gate Tower B, No.19, Zhongguancun Street, Haidian District
Beijing 100080
CN

9C-EB-E8 (hex) BizLink (Kunshan) Co.,Ltd
9CEBE8 (base 16) BizLink (Kunshan) Co.,Ltd
No.168,Nanhe Road,Economic & Technological Development Zone,
Kunshan City Jiangsu Province 215300
CN

C8-D1-D1 (hex) AGAiT Technology Corporation
C8D1D1 (base 16) AGAiT Technology Corporation
5F,No.27-8, Sec. 2, Zhongzheng E. Rd., Danshui Township
Taipei County 25170
TW

00-DB-45
(hex) THAMWAY CO.,LTD.
00DB45 (base 16) THAMWAY CO.,LTD.
3-9-2
Fuji Shizuoka 417-0001
JP

28-72-C5 (hex) Smartmatic Corp
2872C5 (base 16) Smartmatic Corp
1001 Broken Sound Pkwy NW Suite D
Boca Raton Florida 33487
US

74-F7-26 (hex) Neuron Robotics
74F726 (base 16) Neuron Robotics
91 Pearson Ave
Somerville MA 02144
US

88-98-21 (hex) TERAON
889821 (base 16) TERAON

2F Seohan Bldg., 1552-10, Seocho-Dong, Seocho-Gu,
Seoul 137-070
KR

E0-E7-51 (hex) Nintendo Co., Ltd.
E0E751 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

74-F0-7D (hex) BnCOM Co.,Ltd
74F07D (base 16) BnCOM Co.,Ltd
Room1007, Daehyun Techno World, 174
Uiwang-si Gyeonggi-do 437-753
KR

7C-6C-8F (hex) AMS NEVE LTD
7C6C8F (base 16) AMS NEVE LTD
BILLINGTON ROAD
BURNLEY LANCASHIRE BB11 5UB
GB

9C-B2-06 (hex) HMS Industrial Networks
9CB206
(base 16) HMS Industrial Networks
P O Box 4126 Halmstad Halland 300 04 SE
Halland Halmstad 300 04
SE

AC-E9-AA (hex) Hay Systems Ltd
ACE9AA (base 16) Hay Systems Ltd
Watermark
Livingston West Lothian EH54 7EG
GB

08-2A-D0 (hex) SRD Innovations Inc.
082AD0 (base 16) SRD Innovations Inc.
11525 Valley Ridge Dr. NW
Calgary AB T3B 5T4
CA

E0-8F-EC (hex) REPOTEC CO., LTD.
E08FEC (base 16) REPOTEC CO., LTD.
3F, 258.
CHUNG HO CITY, TAIPEI COUNTY 235
TW

00-3A-AF (hex) BlueBit Ltd.

003AAF (base 16) BlueBit Ltd.
Unit B, 21/F., 78 Hung To Road,
Kowloon,
HK

64-16-8D (hex) Cisco Systems, Inc
64168D (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F0-62-81 (hex) ProCurve Networking by HP
F06281 (base 16) ProCurve Networking by HP
60 Alexandra Terrace
118502
SG

C0-9C-92 (hex) COBY
C09C92 (base 16) COBY
COBY
Electronics ShenZhen R&D Center
SHENZHEN GUANGDONG 518109
CN

88-ED-1C (hex) Cudo Communication Co., Ltd.
88ED1C (base 16) Cudo Communication Co., Ltd.
10F AriangTV 1467-80, Seocho-3dong, Seocho-gu
Seoul 137-868
KR

9C-CD-82 (hex) CHENG UEI PRECISION INDUSTRY CO.,LTD
9CCD82 (base 16) CHENG UEI PRECISION INDUSTRY CO.,LTD
No.18, Chung Shan Rd., Tu-Cheng Industry Park
Tu Cheng City Taipei Hsien 23680
TW

C0-38-F9 (hex) Nokia Danmark A/S
C038F9 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

F4-63-49 (hex) Diffon Corporation
F46349 (base 16) Diffon Corporation
Digital Tower Aston 1505
Seoul 153803
KR

00-3A-9C (hex) Cisco Systems, Inc
003A9C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

64-4F-74 (hex) LENUS Co., Ltd.
644F74 (base 16) LENUS Co., Ltd.
18-5 Gwacheon-Dong
Gwacheon Gyeonggi-Do 427-060
KR

78-7F-62
(hex) GiK mbH
787F62 (base 16) GiK mbH
Goethestraße 5
Aachen 52064
DE

F8-52-DF (hex) VNL Europe AB
F852DF (base 16) VNL Europe AB
Finlandsgatan 10
Kista 164 74
SE

D8-C3-FB (hex) DETRACOM
D8C3FB (base 16) DETRACOM
41 AVENUE DE L'EUROPE
CASTELNAU D'ESTRETEFONDS 31620
FR

A8-CB-95 (hex) EAST BEST CO., LTD.
A8CB95 (base 16) EAST BEST CO., LTD.
4F,NO.98,SHING TEH ROAD
SAN CHUNG CITY TAIPEI 241
TW

F4-5F-F7 (hex) DQ Technology Inc.
F45FF7 (base 16) DQ Technology Inc.
5111 Johnson Drive
Pleasanton CA 94588
US

7C-3B-D5 (hex) Imago Group
7C3BD5 (base 16) Imago Group
Ramon Marti Alsina 2-4-6
Badalona Barcelona 08911
ES

40-15-97 (hex) Protect America, Inc.
401597 (base 16) Protect America, Inc.
5100 N IH-35
Round Rock TX 78681
US

5C-E2-23 (hex) Delphin Technology AG
5CE223 (base 16) Delphin Technology AG
Lustheide
81
Bergisch-Gladbach 51427
DE

F8-71-FE (hex) The Goldman Sachs Group, Inc.
F871FE (base 16) The Goldman Sachs Group, Inc.
Christchurch Court | 10-15 Newgate Street
London London EC1A 7HD
GB

C4-FC-E4 (hex) DishTV NZ Ltd
C4FCE4 (base 16) DishTV NZ Ltd
10 Penney Ave
Auckland 1041
NZ

2C-19-84 (hex) IDN Telecom, Inc.
2C1984 (base 16) IDN Telecom, Inc.
2669 Great Arbor Way
Union City CA 94587
US

EC-6C-9F (hex) Chengdu Volans Technology CO.,LTD
EC6C9F (base 16) Chengdu Volans Technology CO.,LTD
2nd Floor Building 4B Hi-Tech Incubation Park,Nanyan Xian,Tianfu Ave
Chengdu Sichuan 610041
CN

40-EF-4C (hex) Fihonest communication co.,Ltd
40EF4C (base 16) Fihonest communication co.,Ltd
Room902,Park road,Zhixing business-building
Dongguan Guangdong 523560
CN

00-27-1E (hex) Xagyl Communications
00271E (base 16) Xagyl Communications
1667 Marronier Crt
Cumberland

Ontario K4C 1C2
CA

00-27-1D (hex) Comba Telecom Systems (China) Ltd.
00271D (base 16) Comba Telecom Systems (China) Ltd.
10 Shenzhou Road
Guangzhou Guangdong 510663
CN

00-27-20 (hex) NEW-SOL COM
002720 (base 16) NEW-SOL COM
Bucheon Tecnopark 403-602
Bucheon city Kyoungki-do 420-734
KR

00-26-F7 (hex) Nivetti Systems Pvt. Ltd.
0026F7 (base 16) Nivetti Systems Pvt. Ltd.
#727,8th Main, JP Nagar 3rd Phase
Bangalore 560078
IN

00-26-F6 (hex) Military Communication Institute
0026F6 (base 16) Military Communication Institute
ul. Warszawska 22A
Zegrze 05-130
PL

00-26-F0 (hex) cTrixs International GmbH.
0026F0 (base 16) cTrixs International GmbH.
Lieferinger Hauptstr. 140
Salzburg Salzburg 5020
AT

00-26-EA (hex) Cheerchip Electronic Technology (ShangHai) Co., Ltd.
0026EA (base 16) Cheerchip Electronic Technology (ShangHai) Co., Ltd.
ROOM 1202, NO. 51,
7 Area, NO. 1467 CAOBAO ROAD;
SHANGHAI 201101
CN

00-27-08 (hex) Nordiag ASA
002708 (base 16) Nordiag ASA
Frysjaveien 40
Oslo 0884
NO

58-F6-7B (hex) Xia Men UnionCore Technology LTD.
58F67B (base 16) Xia Men UnionCore Technology LTD.

(224)2F Chuangye Building,Xiamen Pioneering Park for Overseas Chinese Scholars
Xia Men Fu Jian 361009
CN

00-27-02 (hex) SolarEdge Technologies
002702 (base 16) SolarEdge Technologies
1 Abba Eban St.
Herzelia 46725
IL

00-26-FA (hex) BandRich Inc.
0026FA (base 16) BandRich Inc.
7F., No.188, Baociao Road
Sindian City Taipei 23145
TW

00-26-F9 (hex) S.E.M. srl
0026F9 (base 16) S.E.M. srl
via Lecco, 61
Vimercate Monza Brianza 20059
IT

00-26-FD (hex) Interactive Intelligence
0026FD (base 16) Interactive Intelligence
7601 Interactive Way
IN 46278
US

E8-0B-13 (hex) Akib Systems Taiwan, INC
E80B13 (base 16) Akib
Systems Taiwan, INC
No.582-1, RuiGuang Rd
Taipei 114
TW

00-27-11 (hex) LanPro Inc
002711 (base 16) LanPro Inc
1880 NW 93Av
Miami Florida 33172
US

00-26-86 (hex) Quantenna Communcations, Inc.
002686 (base 16) Quantenna Communcations, Inc.
3450 W. Warren Ave.
Fremont CA 94538
US

00-26-84 (hex) KISAN SYSTEM

002684 (base 16) KISAN SYSTEM
GWANGMYEONG TECHNOPARK B-403
GWANGMYEONG GYEONGGI 423-050
KR

00-26-80 (hex) SIL3 Pty.Ltd
002680 (base 16) SIL3 Pty.Ltd
Factory 10
DANDENONG VICTORIA 3175
AU

00-26-DD (hex) Fival Science & Technology Co.,Ltd.
0026DD (base 16) Fival Science & Technology Co.,Ltd.
1/F, Building 57, No.461
Shanghai Shanghai 200233
CN

00-26-DE (hex) FDI MATELEC
0026DE (base 16) FDI MATELEC
Route de saint symphorien
Les landes Génusson 85130
FR

00-26-DA (hex) Universal Media Corporation /Slovakia/ s.r.o.
0026DA (base
16) Universal Media Corporation /Slovakia/ s.r.o.
Mickiewiczova 7104/14
Bratislava 811 07
SK

00-26-DB (hex) Ionics EMS Inc.
0026DB (base 16) Ionics EMS Inc.
Carmelray Industrial Park 2, Brgy. Tulo
Calamba Laguna 4027
PH

00-26-C9 (hex) Proventix Systems, Inc.
0026C9 (base 16) Proventix Systems, Inc.
4518 Valleydale Road
Birmingham AL 35242
US

00-26-BF (hex) ShenZhen Temobi Science&Tech Development Co.,Ltd
0026BF (base 16) ShenZhen Temobi Science&Tech Development Co.,Ltd
4FloorG, Jinrun Tower, 6019 Shennan Road
ShenZhen 518000
CN

00-26-D5 (hex) Ory Solucoes em Comercio de Informatica Ltda.
0026D5 (base 16) Ory Solucoes em Comercio de Informatica Ltda.
Av. Unisinos, 615
Sao Leopoldo RS 93022000
BR

00-26-CE (hex) Kozumi USA Corp.
0026CE (base 16) Kozumi USA Corp.
3005 Hartridge Terrace
Wellington FL 33414
US

00-26-CA (hex) Cisco Systems, Inc
0026CA
(base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-26-94 (hex) Senscient Ltd
002694 (base 16) Senscient Ltd
Unit 2, Block A, Arena Business Centre
Poole Dorset BH17 7FJ
GB

00-26-90 (hex) I DO IT
002690 (base 16) I DO IT
1308, WoolimLions2nd Doksan Station
Seoul 153-787
KR

00-26-8F (hex) MTA SpA
00268F (base 16) MTA SpA
Viale dell Industria 12
Codogno LODI 26845
IT

00-26-B4 (hex) Ford Motor Company
0026B4 (base 16) Ford Motor Company
20300 Rotunda Drive
Dearborn MI 48124
US

00-26-AC (hex) Shanghai LUSTER Teraband photonic Co., Ltd.
0026AC (base 16) Shanghai LUSTER Teraband photonic Co., Ltd.
F4, No.39 ChengZhong Rd.
Shanghai 201800
CN

00-26-A6 (hex) TRIXELL
0026A6 (base 16) TRIXELL
460, Rue du pommarin
MOIRANS 38210
FR

00-26-79 (hex) Euphonic Technologies, Inc.
002679 (base 16) Euphonic Technologies, Inc.
2-5-10
Shin-yokohama, Kouhoku-ku
Yokohama 222-0033
JP

00-26-76 (hex) COMMidt AS
002676 (base 16) COMMidt AS
Kikregata 57-59
Levanger Nord-Troendelag 7600
NO

00-26-66 (hex) EFM Networks
002666 (base 16) EFM Networks
6F, Benposra II 1197-1 Bojeong Giheung Gu
Yong In Kyunggi do 446913
KR

00-26-38 (hex) Xia Men Joyatech Co., Ltd.
002638 (base 16) Xia Men Joyatech Co., Ltd.
Room 304, 28th Building, Guanri Road, Xiamen Software Park
Xiamen Fujian Province 361008
CN

00-26-3A (hex) Digitec Systems
00263A (base 16) Digitec Systems
7,1st Street, Kasturibai Nagar
Chennai Tamil Nadu 600054
IN

00-26-35 (hex) Bluetechnix GmbH
002635 (base 16) Bluetechnix GmbH
Waidhausenstr. 3/19
Vienna 1140
AT

00-26-20 (hex) ISGUS GmbH
002620 (base 16) ISGUS GmbH
Oberdorfstraße 18 - 22
VS - Schwenningen BW 78054

DE

00-26-1D (hex) COP SECURITY SYSTEM CORP.
00261D
(base 16) COP SECURITY SYSTEM CORP.
4~7F, No.5, Lane 130, Min-Chung Rd.,
Taipei 23141
TW

00-26-17 (hex) OEM Worldwide
002617 (base 16) OEM Worldwide
2920 Kelly Ave
Watertown SD 57201
US

00-26-13 (hex) Engel Axil S.L.
002613 (base 16) Engel Axil S.L.
Puig dels Tudons, 6
Barbera del Valles Barcelona 08210
ES

00-26-0F (hex) Linn Products Ltd
00260F (base 16) Linn Products Ltd
Glasgow Road
Glasgow Scotland G76 0EQ
GB

00-26-0C (hex) Dataram
00260C (base 16) Dataram
186 Princeton Rd.
West Windsor NJ 08550
US

00-25-F6 (hex) netTALK.com, Inc.
0025F6 (base 16) netTALK.com, Inc.
1100 NW 163RD DRIVE
NORTH MIAMI BEACH FL 33169
US

00-25-F5 (hex) DVS Korea, Co., Ltd
0025F5 (base 16) DVS Korea, Co., Ltd
497-3, SangHa-Dong, Giheung-gu
Yong-In city Gyeonggi-do 446-914
KR

00-25-EB (hex) Reutech Radar Systems (PTY) Ltd
0025EB (base 16) Reutech

Radar Systems (PTY) Ltd
35 Elektron Avenue
Stellenbosch Western Cape 7600
ZA

00-25-EE (hex) Avtex Ltd
0025EE (base 16) Avtex Ltd
Unit G5 Capital Business Park
Cardiff CF3 2PX
GB

00-26-2B (hex) Wongs Electronics Co. Ltd.
00262B (base 16) Wongs Electronics Co. Ltd.
Wanfeng Ind. Esata, Shajing, Baoan,
Shenzhen Guang Dong 518104
CN

00-26-01 (hex) Cutera Inc
002601 (base 16) Cutera Inc
3240 Bayshore Blvd
Brisbane CA 94405
US

00-25-D9 (hex) DataFab Systems Inc.
0025D9 (base 16) DataFab Systems Inc.
385-3 Hongzun Road
Pingzhen City Taoyuan County 32466
TW

00-26-57 (hex) OOO NPP EKRA
002657 (base 16) OOO NPP EKRA
I.Yakovleva St., 3
Cheboksary Chuvash Republic 428003
RU

00-26-52 (hex) Cisco Systems, Inc
002652 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-25-76 (hex) NELI TECHNOLOGIES
002576 (base 16) NELI
TECHNOLOGIES
Route Nationale
LE RHEU 35650
FR

00-25-74 (hex) KUNIMI MEDIA DEVICE Co., Ltd.
002574 (base 16) KUNIMI MEDIA DEVICE Co., Ltd.
3 KITAMACHIDA YAMAZAKI
KUNIMI, DATE FUKUSHIMA 969-1771
JP

00-25-73 (hex) ST Electronics (Info-Security) Pte Ltd
002573 (base 16) ST Electronics (Info-Security) Pte Ltd
100, Jurong East Street 21, ST Electronics Jurong East Bldg
609602
SG

00-25-6F (hex) Dantherm Power
00256F (base 16) Dantherm Power
Marienlystvej 65
Skive 7800
DK

00-25-D6 (hex) The Kroger Co.
0025D6 (base 16) The Kroger Co.
11450 Grooms Road
Blue Ash OH 45242
US

00-25-D1 (hex) Eastern Asia Technology Limited
0025D1 (base 16) Eastern Asia Technology Limited
8F-1, No. 188, Baoqiao Rd., Xindian Dist.
New Taipei City 23145
TW

00-25-CD (hex) Skylane Optics
0025CD (base 16) Skylane Optics
Rue d'Arlon, 6
Windhof 8399
LU

00-25-8C
(hex) ESUS ELEKTRONIK SAN. VE DIS. TIC. LTD. STI.
00258C (base 16) ESUS ELEKTRONIK SAN. VE DIS. TIC. LTD. STI.
ESENSEHIR MAHALLESI KURKCULER CADDESI
ISTANBUL 34776
TR

00-25-87 (hex) Vitality, Inc.
002587 (base 16) Vitality, Inc.
One Broadway
Cambridge MA 02142
US

00-25-AE (hex) Microsoft Corporation
0025AE (base 16) Microsoft Corporation
One Microsoft Way
Redmond Washington 98052-6399
US

00-25-AF (hex) COMFILE Technology
0025AF (base 16) COMFILE Technology
Guro 5 dong, Guro-gu
Seoul 152-842
KR

00-25-A8 (hex) Kontron (BeiJing) Technology Co.,Ltd
0025A8 (base 16) Kontron (BeiJing) Technology Co.,Ltd
17 Building, Block #1,ABP. 188 Western South 4th Ring Road
BeiJing 100070
CN

00-25-A5 (hex) Walnut Media Network
0025A5 (base 16) Walnut Media Network
440 N Wolfe Rd
Sunnyvale CA 94085
US

00-25-7A (hex) CAMCO Produktions- und Vertriebs-GmbH für Beschallungs-
und Beleuchtungsanlagen
00257A (base 16) CAMCO Produktions- und Vertriebs-GmbH für Beschallungs- und Beleuchtungsanlagen
Fischpicke 5
Wenden NRW 57482
DE

00-25-BF (hex) Wireless Cables Inc.
0025BF (base 16) Wireless Cables Inc.
1414 Soquel Ave, Ste 212
Santa Cruz CA 95062
US

00-25-B9 (hex) Cypress Solutions Inc
0025B9 (base 16) Cypress Solutions Inc
3066 Beta Ave
BC V5G 4K4
CA

00-25-B6 (hex) Telecom FM
0025B6 (base 16) Telecom FM
895 Plymouth Road
Slough Berkshire SL1 4LP

GB

00-25-A4 (hex) EuroDesign embedded technologies GmbH
0025A4 (base 16) EuroDesign embedded technologies GmbH
Waldstratraße 4A
Kirchdorf a.d. Amper Bayern 85414
DE

00-25-C1 (hex) Nawoo Korea Corp.
0025C1 (base 16) Nawoo Korea Corp.
4Fl., Hanwon Bldg., 6-1, Sunae-dong, Bundang-gu,
Seongnam-si Gyeonggi-do 463-825
KR

00-25-0A (hex) Security Expert Co. Ltd
00250A (base
16) Security Expert Co. Ltd
8F-3, No.2, Jian 8th Rd.,
Jhonghe Taipei 235
TW

00-25-09 (hex) SHARETRONIC Group LTD
002509 (base 16) SHARETRONIC Group LTD
ShaJing,Bao'an Zone,
ShenZhen Guangdong 518104
CN

00-24-FD (hex) Accedian Networks Inc
0024FD (base 16) Accedian Networks Inc
2351 Alfred Nobel Blvd
Saint Laurent QC h4s 2A9
CA

00-25-5A (hex) Tantalus Systems Corp.
00255A (base 16) Tantalus Systems Corp.
301-3480 Gilmore Way
Burnaby BC V5G 4Y1
CA

00-25-59 (hex) Syphan Technologies Ltd
002559 (base 16) Syphan Technologies Ltd
The Watermill
Skipton North Yorkshire BD23 3AG
GB

00-25-54 (hex) Pixel8 Networks
002554 (base 16) Pixel8 Networks
22 Great Oaks Blvd, Suite 150

San Jose CA 95119
US

00-25-30 (hex) Aetas Systems Inc.
002530 (base 16) Aetas Systems Inc.
3A3, No. 1, LiHsin Road I
HsinChu Taiwan 30078
TW

00-25-2C (hex) Entourage
Systems, Inc.
00252C (base 16) Entourage Systems, Inc.
7901 Jones Branch Drive
McLean Virginia 22102
US

00-25-2F (hex) Energy, Inc.
00252F (base 16) Energy, Inc.
3297 Pacific Street
Charleston SC 29418
US

00-25-0F (hex) On-Ramp Wireless, Inc.
00250F (base 16) On-Ramp Wireless, Inc.
16885 West Bernardo Drive
San Diego CA 92127
US

00-25-05 (hex) eks Engel GmbH & Co. KG
002505 (base 16) eks Engel GmbH & Co. KG
Schuetzenstrasse 2
Wenden-Hillmicke NRW 57482
DE

00-25-40 (hex) Quasar Technologies, Inc.
002540 (base 16) Quasar Technologies, Inc.
1701 Barrett Lakes Boulevard
Kennesaw GA 30144
US

00-25-33 (hex) WITTENSTEIN AG
002533 (base 16) WITTENSTEIN AG
Walter-Wittenstein-Straße 1
Igersheim 97999
DE

00-25-23 (hex) OCP Inc.
002523 (base 16) OCP Inc.

18495 S Dixie Hwy PMB 107
Miami Florida 33157
US

00-25-1D (hex) DSA Encore, LLC
00251D
(base 16) DSA Encore, LLC
50 Pocono Rd
Brookfield CT 06804
US

00-24-F5 (hex) NDS Surgical Imaging
0024F5 (base 16) NDS Surgical Imaging
5750 Hellyer Ave.
San Jose CA. 95138
US

00-24-8B (hex) HYBUS CO., LTD.
00248B (base 16) HYBUS CO., LTD.
Rm# 701, Daerung Post Tower 1st
SEOUL 152-790
KR

00-24-92 (hex) Motorola, Broadband Solutions Group
002492 (base 16) Motorola, Broadband Solutions Group
1101 Marina Village Parkway
Alameda CA 94501
US

00-24-84 (hex) Bang and Olufsen Medicom a/s
002484 (base 16) Bang and Olufsen Medicom a/s
Gimsinglundvej 20
Struer DK DK7600
DK

00-24-D8 (hex) IlSung Precision
0024D8 (base 16) IlSung Precision
182-2, Jegi-ri, Jeongnam-myeon
Hwanseong-si Gyeonggi-do 445-964
KR

00-24-CD (hex) Willow Garage, Inc.
0024CD (base 16) Willow Garage, Inc.
68 Willow Rd.
Menlo Park CA 94025
US

00-24-D3 (hex) QUALICA

Inc.
0024D3 (base 16) QUALICA Inc.
5-29-15,Toyo,
Tokyo 135-0016
JP

00-24-CE (hex) Exeltech Inc
0024CE (base 16) Exeltech Inc
7317 Jack Newell Blvd North
Fort Worth TX 76118
US

00-24-CF (hex) Inscape Data Corporation
0024CF (base 16) Inscape Data Corporation
1611 South Main Street
Milpitas CA 95035
US

00-24-C6 (hex) Hager Electro SAS
0024C6 (base 16) Hager Electro SAS
132, boulevard d'Europe
Obernai Bas-Rhin 67215
FR

00-24-7A (hex) FU YI CHENG Technology Co., Ltd.
00247A (base 16) FU YI CHENG Technology Co., Ltd.
13F, No. 105-1, Jilin Rd., Luju Shiang,
Taoyuan 338
TW

00-24-76 (hex) TAP.tv
002476 (base 16) TAP.tv
16w361 South Frontage Road
Burr Ridge IL 60527
US

00-24-6D (hex) Weinzierl Engineering GmbH
00246D (base 16) Weinzierl Engineering GmbH
Bahnhofstrasse 6
Tyrlaching Bayern 84558
DE

00-24-B1 (hex) Coulomb Technologies
0024B1
(base 16) Coulomb Technologies
1692 Dell Ave
Campbell CA 95008
US

00-24-9C (hex) Bimeng Comunication System Co. Ltd
00249C (base 16) Bimeng Comunication System Co. Ltd
Level 16/f, Tower B,Sinotrans Plaza,No.43, Xi Zhi Men Northern Road,Hai dian District
Beijing 100044
CN

00-24-98 (hex) Cisco Systems, Inc
002498 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-24-B4 (hex) ESCATRONIC GmbH
0024B4 (base 16) ESCATRONIC GmbH
Wuerzburger Str. 8
Laatzen Lower Saxony 30880
DE

00-24-DA (hex) Innovar Systems Limited
0024DA (base 16) Innovar Systems Limited
12155 Commissioner Drive
North Jackson Ohio 44451
US

00-24-6A (hex) Solid Year Co., Ltd.
00246A (base 16) Solid Year Co., Ltd.
2F-1, No. 94, Bao-chung Road,
Hsin-tien City Taipei Hsien 23147
TW

00-24-67 (hex) AOC International (Europe) GmbH
002467 (base 16) AOC International
(Europe) GmbH
Lahnstrasse 86A
Berlin 12055
DE

00-24-53 (hex) Initra d.o.o.
002453 (base 16) Initra d.o.o.
Slomskova 33
Ljubljana 1000
SI

00-24-4C (hex) Solartron Metrology Ltd
00244C (base 16) Solartron Metrology Ltd
Steyning Way
Bognor Regis West Sussex PO20 9ST

GB

00-24-48 (hex) SpiderCloud Wireless, Inc
002448 (base 16) SpiderCloud Wireless, Inc
475 Sycamore Drive
Milpitas CA 95035
US

00-24-4B (hex) PERCEPTRON INC
00244B (base 16) PERCEPTRON INC
47827 HALYARD DR
PLYMOUTH MI 48170
US

00-23-FB (hex) IP Datatel, LLC.
0023FB (base 16) IP Datatel, LLC.
13110 Southwest Freeway
Sugar Land Texas 77478
US

00-23-FE (hex) Biodevices, SA
0023FE (base 16) Biodevices, SA
Rua 5 de Outubro, 309
Porto 4100-175
PT

00-23-F4 (hex) Masternaut
0023F4 (base 16) Masternaut
4, rue Charles Cros
Louviers 27407
FR

00-24-5E (hex) Hivision
Co.,ltd
00245E (base 16) Hivision Co.,ltd
2201-2202, COFCO Property Tower,
Shenzhen Guangdong 518101
CN

00-24-4D (hex) Hokkaido Electronics Corporation
00244D (base 16) Hokkaido Electronics Corporation
1-1 East 10 North 10
Sapporo Hokkaido 065-0010
JP

00-24-52 (hex) Silicon Software GmbH
002452 (base 16) Silicon Software GmbH
Steubenstrasse 46

Mannheim Baden-Wuerttemberg 68163
DE

00-24-16 (hex) Any Use
002416 (base 16) Any Use
LG APT 211-1805,
Yongin City Gyeong-Gi Province 448-150
KR

00-24-09 (hex) The Toro Company
002409 (base 16) The Toro Company
5825 Jasmine Street
Riverside CA 92504
US

00-24-22 (hex) Knapp Logistik Automation GmbH
002422 (base 16) Knapp Logistik Automation GmbH
Günter Knapp-Straße 5-7
Hart bei Graz Styria 8075
AT

00-24-1B (hex) iWOW Communications Pte Ltd
00241B (base 16) iWOW Communications Pte Ltd
1 Lorong
2 Toa Payoh #04-01
319637
SG

00-24-28 (hex) EnergyICT
002428 (base 16) EnergyICT
Theodoor Sevenslaan 104a
Kortrijk 8500
BE

00-24-17 (hex) Thomson Telecom Belgium
002417 (base 16) Thomson Telecom Belgium
Prins Boudewijnlaan 47
Edegem Antwerp B-2650
BE

00-24-42 (hex) Axona Limited
002442 (base 16) Axona Limited
Unit 4U St. Albans Enterprise Centre
St. Albans Herts AL3 6EN
GB

00-24-3C (hex) S.A.A.A.
00243C (base 16) S.A.A.A.

Z.A. Croix Saint Mathieu
GALLARDON Eure et Loir 28320
FR

00-24-06 (hex) Pointmobile
002406 (base 16) Pointmobile
301,World Meridian Verture Center-1 60-24
Seoul Geumcheon-gu 153781
KR

00-24-00 (hex) Nortel Networks
002400 (base 16) Nortel Networks
2221 Lakeside Blvd
Richardson TX 75081
US

00-24-2A (hex) Hittite Microwave Corporation
00242A (base 16) Hittite Microwave Corporation
20 Alpha Rd
Chelmsford
MA 01824
US

00-23-7E (hex) ELSTER GMBH
00237E (base 16) ELSTER GMBH
KUHLMANNSTRASSE 10
HAMELN 31785
DE

00-23-7C (hex) NEOTION
00237C (base 16) NEOTION
ZI les Paluds
AUBAGNE F-13400
FR

00-23-7A (hex) RIM
00237A (base 16) RIM
295 Phillip Street
Waterloo Ontario N2L 3W8
CA

00-23-CA (hex) Behind The Set, LLC
0023CA (base 16) Behind The Set, LLC
2185 Knollwood Dr.
Boulder CO 80302
US

00-23-CB (hex) Shenzhen Full-join Technology Co.,Ltd

0023CB (base 16) Shenzhen Full-join Technology Co.,Ltd
9/F,No.1,Xinrui Road,Hourui ,Xixiang Town, Bao'an District
ShenZhen GuangDong 518000
CN

00-23-D0 (hex) Uniloc USA Inc.
0023D0 (base 16) Uniloc USA Inc.
3333 Michelson Drive
Irvine CA 92612
US

00-23-DC (hex) Benein, Inc
0023DC (base 16) Benein, Inc
Hyojachonjesangga228 B9, 297,
Sengnam-si Kyunggi-do 463-818
KR

00-23-D1 (hex) TRG
0023D1
(base 16) TRG
Wisma Kosgoro 13th Floor
Jakarta Pusat 10350
ID

00-23-D3 (hex) AirLink WiFi Networking Corp.
0023D3 (base 16) AirLink WiFi Networking Corp.
19F-1 Room A , No.97, Sec 4, Chung Hsin Rd.,
San Chung City, Taipei Hsien 241
TW

00-23-AD (hex) Xmark Corporation
0023AD (base 16) Xmark Corporation
309 Legget Drive
Ottawa Ontario K2K 3A3
CA

00-23-AB (hex) Cisco Systems, Inc
0023AB (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-23-A4 (hex) New Concepts Development Corp.
0023A4 (base 16) New Concepts Development Corp.
2650 Bridge Lane
Woodstock IL 60098
US

00-23-B0 (hex) COMXION Technology Inc.
0023B0 (base 16) COMXION Technology Inc.
11F, No. 111, Sec 2, Keelung Rd., Sinyi Distric
Taipei Taiwan 110
TW

00-23-E1 (hex) Cavena Image Products AB
0023E1 (base 16) Cavena Image Products AB
Nytorpsvägen 26
Täby Stockholm
se-183 53
SE

00-23-C7 (hex) AVSystem sp. z o. o.
0023C7 (base 16) AVSystem sp. z o. o.
Radzikowskiego 47D
Kraków, ul. 31-315
PL

00-23-C3 (hex) LogMeIn, Inc.
0023C3 (base 16) LogMeIn, Inc.
500 Unicorn Park Drive
Woburn Massachusetts 01801
US

00-23-85 (hex) ANTIPODE
002385 (base 16) ANTIPODE
5 RUE DE DOUAI
PARIS ILE DE FRANCE 75009
FR

00-22-E1 (hex) ZORT Labs, LLC.
0022E1 (base 16) ZORT Labs, LLC.
44H Dover Point Road
Dover NH 03820
US

00-22-E0 (hex) Atlantic Software Technologies S.r.L.
0022E0 (base 16) Atlantic Software Technologies S.r.L.
Via Martino Bassi, 9
Milano 20148
IT

00-22-DF (hex) TAMUZ Monitors
0022DF (base 16) TAMUZ Monitors
Tiedenkamp 16
Henstedt-Ulzburg SH 24558
DE

00-22-D8 (hex) Shenzhen GST Security and Safety Technology Limited
0022D8 (base 16) Shenzhen GST Security and Safety Technology Limited
Room 502,Building
6 of Kupai Infomation Harbour,
Shenzhen Guangdong 518040
CN

00-22-DC (hex) Vigil Health Solutions Inc.
0022DC (base 16) Vigil Health Solutions Inc.
2102-4464 Markham St
Victoria BC V8Z 7X8
CA

00-22-D9 (hex) Fortex Industrial Ltd.
0022D9 (base 16) Fortex Industrial Ltd.
Flat 16, 12 /F.,Pacific Trade Centre
Kowloon Hong Kong 852
CN

00-23-72 (hex) MORE STAR INDUSTRIAL GROUP LIMITED
002372 (base 16) MORE STAR INDUSTRIAL GROUP LIMITED
Rm1221-1225, F12 Sangda Science and Technology Building ,
Shenzhen Guangdong 518057
CN

00-23-6D (hex) ResMed Ltd
00236D (base 16) ResMed Ltd
1, Elizabeth Macarthur Drive
Bella Vista NSW 2153
AU

00-23-6B (hex) Xembedded, Inc.
00236B (base 16) Xembedded, Inc.
1050 Highland Dr
Ann Arbor MI 48108
US

00-23-61 (hex) Unigen Corporation
002361 (base 16) Unigen Corporation
45388 Warm Springs Blvd
Fremont CA 94539
US

00-23-3B
(hex) C-Matic Systems Ltd
00233B (base 16) C-Matic Systems Ltd
Warren Court

Crowborough East Sussex TN6 2QX
GB

00-23-2C (hex) Senticare
00232C (base 16) Senticare
161 Worcester Rd
Framingham MA 01701
US

00-23-2B (hex) IRD A/S
00232B (base 16) IRD A/S
Kullinggade 31
Svendborg Fyn 5700
DK

00-23-03 (hex) LITE-ON IT Corporation
002303 (base 16) LITE-ON IT Corporation
14F, No. 392, Ruey Kuang Road, Neihu
Taipei City 114
TW

00-22-FE (hex) Advanced Illumination
0022FE (base 16) Advanced Illumination
440 State Garage Road
Rochester Vermont 05767
US

00-23-00 (hex) Cayee Computer Ltd.
002300 (base 16) Cayee Computer Ltd.
Units 1002-1003, 10/F, Join-In Hang Sing Centre
Kwai Chung N.T
HK

00-22-F3 (hex) SHARP Corporation
0022F3 (base 16) SHARP Corporation
22-22,Nagaike-cho
Osaka city Osaka prefecture 545-8522
JP

00-22-F6 (hex) Syracuse
Research Corporation
0022F6 (base 16) Syracuse Research Corporation
6225 Running Ridge Road
North Syracuse NY 13212
US

00-23-4C (hex) KTC AB
00234C (base 16) KTC AB

F O Petersons gata 6
Vastra Frolunda Gothenburg SE-42131
SE

00-23-43 (hex) TEM AG
002343 (base 16) TEM AG
Triststrasse 8
Chur 7007
CH

00-23-36 (hex) METEL s.r.o.
002336 (base 16) METEL s.r.o.
Zizkuv Kopec 617
Ceska Skalice Nachod 55203
CZ

00-23-38 (hex) OJ-Electronics A/S
002338 (base 16) OJ-Electronics A/S
Stenager 13B
Sønderborg 6400
DK

00-23-1A (hex) ITF Co., Ltd.
00231A (base 16) ITF Co., Ltd.
2-2-11 Nishiki-cho
Tachikawa-shi Tokyo 190-0022
JP

00-23-0D (hex) Nortel Networks
00230D (base 16) Nortel Networks
2221 Lakeside Blvd
Richardson TX 75081
US

00-23-2A (hex) eonas IT-Beratung und -Entwicklung GmbH
00232A (base 16) eonas IT-Beratung und -Entwicklung
GmbH
Greifenhagener Str. 54
Berlin 10437
DE

00-23-27 (hex) Shouyo Electronics CO., LTD
002327 (base 16) Shouyo Electronics CO., LTD
4F., No.8, Lane 345, Yang Kung St.
Taipei 11491
TW

00-23-28 (hex) ALCON TELECOMMUNICATIONS CO., LTD.

002328 (base 16) ALCON TELECOMMUNICATIONS CO., LTD.
2nd FL, NO 480-5, SEC. 6, YEN-PING N. RD.,
TAIPEI TAIWAN 111
TW

00-22-ED (hex) TSI Power Corporation
0022ED (base 16) TSI Power Corporation
1103 West Pierce Avenue
Antigo WI 54409
US

00-23-5F (hex) Silicon Micro Sensors GmbH
00235F (base 16) Silicon Micro Sensors GmbH
Grenzstrasse 28 / Gebäude 32
Dresden Saxony 01109
DE

00-22-52 (hex) ZOLL Lifecor Corporation
002252 (base 16) ZOLL Lifecor Corporation
121 Freeport Road
Pittsburgh PA 15238
US

00-22-4D (hex) MITAC INTERNATIONAL CORP.
00224D (base 16) MITAC INTERNATIONAL CORP.
6TH FL., NO187, TIDING BLVD., SEC.
2
Taipei 114
TW

00-22-4C (hex) Nintendo Co., Ltd.
00224C (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-22-4A (hex) RAYLASE AG
00224A (base 16) RAYLASE AG
Argelsrieder Feld 2-4
Wessling Bavaria 82234
DE

00-22-4B (hex) AIRTECH TECHNOLOGIES, INC.
00224B (base 16) AIRTECH TECHNOLOGIES, INC.
19fl-4, no.77, Hsin Tai Wu Rd., sec.1, Hsin-Chih
Taipei 221
TW

00-22-6D (hex) Shenzhen GIEC Electronics Co., Ltd.
00226D (base 16) Shenzhen GIEC Electronics Co., Ltd.
24/F, XiNian Center, ShenNan Road 6021#, Futian District
Shenzhen Guangdong Province 518040
CN

00-22-6E (hex) Gowell Electronic Limited
00226E (base 16) Gowell Electronic Limited
Room 3601 ,36 Floor,Golden Central Tower,Jintian Road,Futian Central District,
Shenzhen GuangDong 518048
CN

00-22-5D (hex) Digicable Network India Pvt. Ltd.
00225D (base 16) Digicable
Network India Pvt. Ltd.
7B, Shah Industrial Estate
Andheri - West, Mumbai. Maharashtra 400 053
IN

00-22-8C (hex) Photon Europe GmbH
00228C (base 16) Photon Europe GmbH
Jülicher Straße 376
Aachen Nordrhein-Westfalen 52070
DE

00-22-8B (hex) Kensington Computer Products Group
00228B (base 16) Kensington Computer Products Group
333 Twin Dolphin Dr.
Redwood Shores CA 94065
US

00-22-8D (hex) GBS Laboratories LLC
00228D (base 16) GBS Laboratories LLC
2325 Dulles Corner Blvd
Herndon VA 20171
US

00-22-89 (hex) Vanderlande APC inc.
002289 (base 16) Vanderlande APC inc.
1280 Lebourgneuf Blvd.
Quebec G2K 0H1
CA

00-22-C9 (hex) Lenord, Bauer & Co GmbH
0022C9 (base 16) Lenord, Bauer & Co GmbH
Dohlenstr 32
Oberhausen NRW 46145
DE

00-22-BC (hex) JDSU France SAS
0022BC (base 16) JDSU France SAS
34 rue Necker
SAINT ETIENNE LOIRE 42000
FR

00-22-7D
(hex) YE DATA INC.
00227D (base 16) YE DATA INC.
182 Shinko
Iruma Saitama 358-0055
JP

00-22-7B (hex) Apogee Labs, Inc.
00227B (base 16) Apogee Labs, Inc.
210 S. 3rd St.
North Wales PA 19454
US

00-22-9F (hex) Sensys Traffic AB
00229F (base 16) Sensys Traffic AB
Slottsgatan 14
Jonkoping Smaland 55322
SE

00-22-99 (hex) SeaMicro Inc.
002299 (base 16) SeaMicro Inc.
4677 Old Ironsides Dr.,
Santa Clara CA 95054
US

00-22-56 (hex) Cisco Systems, Inc
002256 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-22-D3 (hex) Hub-Tech
0022D3 (base 16) Hub-Tech
77, Imae-dong
Seongnam-si Gyeonggi-do 463-829
KR

00-22-D4 (hex) ComWorth Co., Ltd.
0022D4 (base 16) ComWorth Co., Ltd.
2-35-7 Nishimagome
Ohta-ku Tokyo 143-0026

JP

00-22-AA (hex) Nintendo Co., Ltd.
0022AA (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO
KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-22-A8 (hex) Ouman Oy
0022A8 (base 16) Ouman Oy
Voimatie 6
Kempele FIN-90440
FI

00-22-23 (hex) TimeKeeping Systems, Inc.
002223 (base 16) TimeKeeping Systems, Inc.
30700 Bainbridge Road
Solon OH 44139
US

00-22-1A (hex) Audio Precision
00221A (base 16) Audio Precision
5750 SW Arctic Drive
Beaverton OR 97005
US

00-22-13 (hex) PCI CORPORATION
002213 (base 16) PCI CORPORATION
No.25, Lane 66, Hebei 1st St., Beitun District
Taichung 406
TW

00-21-D8 (hex) Cisco Systems, Inc
0021D8 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-21-D7 (hex) Cisco Systems, Inc
0021D7 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-21-D9 (hex) SEKONIC CORPORATION
0021D9 (base 16) SEKONIC CORPORATION
7-24-14

NERIMA-KU TOKYO 178-8686
JP

00-21-DA
(hex) Automation Products Group Inc.
0021DA (base 16) Automation Products Group Inc.
1025 West 1700 North
Logan Utah 84321
US

00-22-3C (hex) RATIO Entwicklungen GmbH
00223C (base 16) RATIO Entwicklungen GmbH
Ludwig-Erhard-Strasse 22
Hamburg 20459
DE

00-21-E3 (hex) SerialTek LLC
0021E3 (base 16) SerialTek LLC
1570 Oakland Road
San Jose CA 95131
US

00-21-E7 (hex) Informatics Services Corporation
0021E7 (base 16) Informatics Services Corporation
140, Negin Bldg.,
Tehran 1549534511
IR

00-21-DC (hex) TECNOALARM S.r.l.
0021DC (base 16) TECNOALARM S.r.l.
Via Cirie'
San Mauro Torinese Torino 10099
IT

00-21-F8 (hex) Enseo, Inc.
0021F8 (base 16) Enseo, Inc.
401 International Parkway
Richardson TX 75081
US

00-21-F3 (hex) Si14 SpA
0021F3 (base 16) Si14 SpA
Via Tommaseo 77
Padova PD 35131
IT

00-21-F1 (hex) Tutus Data AB
0021F1 (base

16) Tutus Data AB
Svardvagen 11
Danderyd Stockholm 18233
SE

00-21-C4 (hex) Consilium AB
0021C4 (base 16) Consilium AB
Västra Finnbodavägen 2-4
Nacka Stockholm 13131
SE

00-21-BD (hex) Nintendo Co., Ltd.
0021BD (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-22-1C (hex) Private
00221C (base 16) Private

00-22-22 (hex) Schaffner Deutschland GmbH
002222 (base 16) Schaffner Deutschland GmbH
Nürtingen Branch
Nürtingen BW D-72622
DE

00-22-31 (hex) SMT&C Co., Ltd.
002231 (base 16) SMT&C Co., Ltd.
2Fr. Haksan Bldg. 110, Gwangjang-dong, Gwangjin-gu
Seoul 143-802
KR

00-22-01 (hex) Aksys Networks Inc
002201 (base 16) Aksys Networks Inc
428, 3553 - 31 Street NW
Calgary T2L 2K7
CA

00-21-93 (hex) Videofon MV
002193 (base 16) Videofon MV
6 Blackoak Mews
Newtown PA 18940
US

00-21-92 (hex) Baoding
Galaxy Electronic Technology Co.,Ltd
002192 (base 16) Baoding Galaxy Electronic Technology Co.,Ltd
NO.91 Fengfan Rd.,GaoKai District,Baoding City,Hebei Prov.China 071051

Baoding City Hebei Prov. 071051
CN

00-21-89 (hex) AppTech, Inc.
002189 (base 16) AppTech, Inc.
363 E Greyhound Pass
Carmel Indiana 46032
US

00-21-5F (hex) IHSE GmbH
00215F (base 16) IHSE GmbH
Maybachstraße 11
Oberteuringen Baden-Württemberg 88094
DE

00-21-56 (hex) Cisco Systems, Inc
002156 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-21-51 (hex) Millinet Co., Ltd.
002151 (base 16) Millinet Co., Ltd.
2F, West Building, IT Venture Tower, 78, Garakbon-Dong
Songpa-gu Seoul 138-803
US

00-21-47 (hex) Nintendo Co., Ltd.
002147 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-21-35 (hex) ALCATEL-LUCENT
002135
(base 16) ALCATEL-LUCENT
Ramirez de Prado 5
Madrid 28045
ES

00-21-38 (hex) Cepheid
002138 (base 16) Cepheid
904 Caribbean Drive
Sunnyvale CA 94089
US

00-21-6C (hex) ODVA
00216C (base 16) ODVA

4220 Varsity Drive
Ann Arbor MI 48108-5006
US

00-21-61 (hex) Yournet Inc.
002161 (base 16) Yournet Inc.
KT R&D Center
Seoul 137-792
KR

00-21-A7 (hex) Hantle System Co., Ltd.
0021A7 (base 16) Hantle System Co., Ltd.
481-10 Byucksan Digital Vally II, RM 1511
Seoul City Seoul 153-783
KR

00-21-9C (hex) Honeywld Technology Corp.
00219C (base 16) Honeywld Technology Corp.
No.40,Hsueh-Fu Rd.
Hsinchu 300
TW

00-21-9A (hex) Cambridge Visual Networks Ltd
00219A (base 16) Cambridge Visual Networks Ltd
61 Selwyn Road
Cambridge Cambridgeshire CB3 9EA
GB

00-21-7B (hex) Bastec AB
00217B (base 16) Bastec AB
Hästvägen 4A
Malmö SE 212 35
SE

00-21-76
(hex) YMax Telecom Ltd.
002176 (base 16) YMax Telecom Ltd.
11 Moshe Levi str.
Rishon Le Zion 75658
IL

00-21-71 (hex) Wesung TNC Co., Ltd.
002171 (base 16) Wesung TNC Co., Ltd.
102-1409, Bucheon Chunui Technopark 1st,
Bucheon-City, Gyeongggi-Do 420-857
KR

00-21-B5 (hex) Galvanic Ltd

0021B5 (base 16) Galvanic Ltd
38 Nothumberland Road
Dublin 2
IE

00-21-49 (hex) China Daheng Group ,Inc.
002149 (base 16) China Daheng Group ,Inc.
12F Daheng Science & Technology Tower ,NO.3 Suzhou Str.
Beijing 100080
CN

00-1F-F9 (hex) Advanced Knowledge Associates
001FF9 (base 16) Advanced Knowledge Associates
3350 Scott Blvd, Suite 40
Santa Clara CA 95054-3119
US

00-21-26 (hex) Shenzhen Torch Equipment Co., Ltd.
002126 (base 16) Shenzhen Torch Equipment Co., Ltd.
Floor 5, Block 3, Liming Industrial District, Zhongshanyuan Road, Nanshan,
Shenzhen Guangdong
518052
CN

00-21-1C (hex) Cisco Systems, Inc
00211C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-21-18 (hex) Athena Tech, Inc.
002118 (base 16) Athena Tech, Inc.
3721 Macintosh Dr
Warrenton VA 20187
US

00-1F-C5 (hex) Nintendo Co., Ltd.
001FC5 (base 16) Nintendo Co., Ltd.
11-1 HOKOTATE-CHO KAMITOBA, MINAMI-KU
KYOTO KYOTO 601-8501
JP

00-1F-C0 (hex) Control Express Finland Oy
001FC0 (base 16) Control Express Finland Oy
Laitaatsillantie 3
Savonlinna 57170
FI

00-21-13 (hex) Padtec S/A
002113 (base 16) Padtec S/A
Road Campinas Mogi-Mirim km 118,5
Campinas São Paulo 13086-902
BR

00-21-12 (hex) WISCOM SYSTEM CO.,LTD
002112 (base 16) WISCOM SYSTEM CO.,LTD
100 Jiangjun Road,Jiangning,
Nanjing 211100
CN

00-21-0E (hex) Orpak Systems L.T.D.
00210E (base 16) Orpak Systems L.T.D.
31 Lechi St
Bnei - Brak 51114
IL

00-1F-F4
(hex) Power Monitors, Inc.
001FF4 (base 16) Power Monitors, Inc.
800 North Main Street
Mt. Crawford Virginia 22841
US

00-1F-ED (hex) Tecan Systems Inc.
001FED (base 16) Tecan Systems Inc.
2450 Zanker Road
San Jose CA 95131
US

00-21-22 (hex) Chip-pro Ltd.
002122 (base 16) Chip-pro Ltd.
5F.-4, No.63, Siwei Rd., North District,
Hsinchu 300
TW

00-21-25 (hex) KUK JE TONG SHIN Co.,LTD
002125 (base 16) KUK JE TONG SHIN Co.,LTD
476-3
Incheon Kwangyouk-Si 407-060
KR

00-1F-E5 (hex) In-Circuit GmbH
001FE5 (base 16) In-Circuit GmbH
Königsbrücker Strasse 69
Dresden 01099
DE

00-1F-BC (hex) EVGA Corporation
001FBC (base 16) EVGA Corporation
2900 Saturn St.
Brea CA 92821
US

00-1F-BD (hex) Kyocera Wireless Corp.
001FBD (base 16) Kyocera Wireless Corp.
10300 Campus Point Drive
San Diego CA 92121
US

00-1F-B9 (hex) Paltronics
001FB9
(base 16) Paltronics
1145 Paltronics Ct
Crystal Lake IL 60014
US

00-1F-B7 (hex) WiMate Technologies Corp.
001FB7 (base 16) WiMate Technologies Corp.
14A Building 2, Guimiao Garden, Nanguanglu, Nanshan District
Shenzhen Guangdong 518054
CN

00-1F-B4 (hex) SmartShare Systems
001FB4 (base 16) SmartShare Systems
Tonsbakken 16-18
Skovlunde DK-2740
DK

00-1F-B6 (hex) Chi Lin Technology Co., Ltd.
001FB6 (base 16) Chi Lin Technology Co., Ltd.
No.18, Sheng Li 1st St., Jen Te Hsiang,
Tainan Taiwan 71758
CN

00-1F-AF (hex) NextIO, Inc.
001FAF (base 16) NextIO, Inc.
8303 N MoPac Expressway
Austin TX 78759
US

00-1F-AA (hex) Taseon, Inc.
001FAA (base 16) Taseon, Inc.
3099 N. First Street
San Jose CA 95134

US

00-1F-66 (hex) PLANAR LLC
001F66 (base 16) PLANAR LLC
32, Elkina str
Chelyabinsk SU 454091
RU

00-1F-5F (hex) Blatand GmbH
001F5F
(base 16) Blatand GmbH
Lichtenbergstrße 8
Garching Bavaria 85748
DE

00-1F-57 (hex) Phonik Innovation Co.,LTD
001F57 (base 16) Phonik Innovation Co.,LTD
29/167 Moo2, 345 Rd, Lampo,
Nonthaburi 11110
TH

00-1F-59 (hex) Kronback Tracers
001F59 (base 16) Kronback Tracers
c/o DTU, R254
Ballerup Copenhagen 2750
DK

00-1F-8D (hex) Ingenieurbuero Stark GmbH und Ko. KG
001F8D (base 16) Ingenieurbuero Stark GmbH und Ko. KG
Rudolf-Diesel-Strasse 44
Laichingen BW 89150
DE

00-1F-8F (hex) Shanghai Bellmann Digital Source Co.,Ltd.
001F8F (base 16) Shanghai Bellmann Digital Source Co.,Ltd.
404-408 Main Bd, FDUSP, No.11 Guotai Rd.
Shanghai 200433
CN

00-1F-84 (hex) Gigle Semiconductor
001F84 (base 16) Gigle Semiconductor
Barcelona Activa - Vivero Glorias
Barcelona 08018
ES

00-1F-7B (hex) TechNexion Ltd.
001F7B (base 16) TechNexion Ltd.
17F-1, No. 16, Jian Ba

Road,
Chung Ho Taipei 235
TW

00-1F-7D (hex) Embedded Wireless GmbH
001F7D (base 16) Embedded Wireless GmbH
Soeflinger Strasse 200
Ulm BW 89077
DE

00-1F-74 (hex) Eigen Development
001F74 (base 16) Eigen Development
1807 W10th Ave
Vancouver BC V6J 2A9
CA

00-1F-75 (hex) GiBahn Media
001F75 (base 16) GiBahn Media
1816 Rosedale Suseo-dong
Seoul 135-885
KR

00-1F-6E (hex) Vtech Engineering Corporation
001F6E (base 16) Vtech Engineering Corporation
20 New England Business Center
Andover MA 01810
US

00-1F-43 (hex) ENTES ELEKTRONIK
001F43 (base 16) ENTES ELEKTRONIK
Y. Dudullu Org. San. Bol. And Sanayi Sit. No.6
Istanbul Dudullu 34775
TR

00-1F-4E (hex) ConMed Linvatec
001F4E (base 16) ConMed Linvatec
11311 Concept Blvd.
Largo FL 33773
US

00-1F-4A (hex) Albentia Systems S.A.
001F4A (base 16) Albentia Systems S.A.
Albala 13
Madrid
28037
ES

00-1F-9E (hex) Cisco Systems, Inc

001F9E (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1F-A0 (hex) A10 Networks
001FA0 (base 16) A10 Networks
3 West Plumeria Drive
San Jose CA 95134
US

00-1E-D8 (hex) Digital United Inc.
001ED8 (base 16) Digital United Inc.
9F, No.220, Gangcian Rd.
Taipei 11444
TW

00-1E-F7 (hex) Cisco Systems, Inc
001EF7 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1E-E6 (hex) Shenzhen Advanced Video Info-Tech Co., Ltd.
001EE6 (base 16) Shenzhen Advanced Video Info-Tech Co., Ltd.
Tianxiang 11A, Tian'an Cyber Park , Futian
Shenzhen Guangdong 518048
CN

00-1E-B3 (hex) Primex Wireless
001EB3 (base 16) Primex Wireless
965 Wells Street
Lake Geneva WI 53147
US

00-1E-B6 (hex) TAG Heuer SA
001EB6 (base 16) TAG Heuer SA
Rue Louis-Joseph Chevrolet 6A
la Chaux-de-Fonds
NE 2300
CH

00-1E-AC (hex) Armadeus Systems
001EAC (base 16) Armadeus Systems
Business Campus
MULHOUSE cedex Haut-Rhin 68058
FR

00-1E-AA (hex) E-Senza Technologies GmbH
001EAA (base 16) E-Senza Technologies GmbH
Blarerstrasse 56
Konstanz BW 78462
DE

00-1E-C6 (hex) Obvius Holdings LLC
001EC6 (base 16) Obvius Holdings LLC
20811 NW Cornell Road
Hillsboro OR 97124
US

00-1E-C4 (hex) Celio Corp
001EC4 (base 16) Celio Corp
265 E 100 S # 280
Salt Lake City UT 84111
US

00-1E-C1 (hex) 3COM EUROPE LTD
001EC1 (base 16) 3COM EUROPE LTD
Peoplebuilding 2
Hemel Hempstead HERTS. HP2 4NW
GB

00-1E-BB (hex) BLUELIGHT TECHNOLOGY INC.
001EBB (base 16) BLUELIGHT TECHNOLOGY INC.
6472 CAMDEN AVE., SUITE 102B
SAN JOSE CA 95120
US

00-1E-B5 (hex) Ever Sparkle Technologies Ltd
001EB5 (base 16) Ever Sparkle Technologies Ltd
Unit 403, Nan Fung Commercial
Centre
Kowloon Bay Kowloon
HK

00-1F-0E (hex) Japan Kyastem Co., Ltd
001F0E (base 16) Japan Kyastem Co., Ltd
1-4-4
Tachikawa Tokyo 190-0022
JP

00-1F-0B (hex) Federal State Unitary Enterprise Industrial UnionElectropribor
001F0B (base 16) Federal State Unitary Enterprise Industrial UnionElectropribor

Penza 440011
RU

00-1F-0C (hex) Intelligent Digital Services GmbH
001F0C (base 16) Intelligent Digital Services GmbH
Grevesmuehlener Strasse 8
Mallentin Mecklenburg-Vorpommern 23639
DE

00-1F-1E (hex) Astec Technology Co., Ltd
001F1E (base 16) Astec Technology Co., Ltd
12F, No.2, Jian Ba Rd.
Chung Ho Taipei Hsien 235
TW

00-1F-14 (hex) NexG
001F14 (base 16) NexG
5F Seoul Academy Bldg, Daechi-Dong, Gangnam-Gu,
Seoul 135-280
KR

00-1E-D6 (hex) Alentec & Orion AB
001ED6 (base 16) Alentec & Orion AB
Grustagsvägen 4
138 40 ÄLTA
SE

00-1F-08 (hex) RISCO
LTD
001F08 (base 16) RISCO LTD
32 Hacharoshet St
Kiriat Malachi 83101
IL

00-1E-F1 (hex) Servimat
001EF1 (base 16) Servimat
ZAET Les Haies
St Maximin Oise 60740
FR

00-1E-F4 (hex) L-3 Communications Display Systems
001EF4 (base 16) L-3 Communications Display Systems
1355 Bluegrass Lakes Parkway
Alpharetta GA 30004-8458
US

00-1E-F5 (hex) Hitek Automated Inc.
001EF5 (base 16) Hitek Automated Inc.
Room C3-901, No.383, Huamen Shijia
Hangzhou 310012

CN

00-1F-28 (hex) HPN Supply Chain
001F28 (base 16) HPN Supply Chain
8000 Foothills Blvd
Roseville CA 95747
US

00-1E-8B (hex) Infra Access Korea Co., Ltd.
001E8B (base 16) Infra Access Korea Co., Ltd.
#902, Sambo Saving Bank B/D,
Kwanak-gu, Seoul 151-830
KR

00-1E-85 (hex) Lagotek Corporation
001E85 (base 16) Lagotek Corporation
11661 SE 1st St. #208
Bellevue WA 98005
US

00-1E-77
(hex) Air2App
001E77 (base 16) Air2App
50 Old Forge Rd
Hanover MA 02339
US

00-1E-7B (hex) R.I.CO. S.r.l.
001E7B (base 16) R.I.CO. S.r.l.
via Adriatica, 17
Castelfidardo AN 60022
IT

00-1E-6E (hex) Shenzhen First Mile Communications Ltd
001E6E (base 16) Shenzhen First Mile Communications Ltd
5th Floor, Block R3-A
Shenzhen Guangdong 518057
CN

00-1E-55 (hex) COWON SYSTEMS,Inc.
001E55 (base 16) COWON SYSTEMS,Inc.
6th Fl. COWON TOWER,689-3,
Seoul 135-080
KR

00-1E-56 (hex) Bally Wulff Entertainment GmbH
001E56 (base 16) Bally Wulff Entertainment GmbH
Maybachufer 48-51

Berlin 12045
DE

00-1E-57 (hex) ALCOMA, spol. s r.o.
001E57 (base 16) ALCOMA, spol. s r.o.
Klukovice 313, Praha - 5
Praha 152 00
CZ

00-1E-50 (hex) BATTISTONI RESEARCH
001E50 (base 16) BATTISTONI RESEARCH
PARCO DONICA 56
FISCIANO SALERNO 84084
IT

00-1E-9C (hex) Fidustron
INC
001E9C (base 16) Fidustron INC
NO.770-6, Jhongiheng Rd.
Jhonghe City Taipei County 235
TW

00-1E-97 (hex) Medium Link System Technology CO., LTD,
001E97 (base 16) Medium Link System Technology CO., LTD,
11F.-2, No.7, Alley 92, Lane 77, Sec. 4, Sinhai Rd.,
Wunshan District, Taipei 11693
TW

00-1E-34 (hex) CryptoMetrics
001E34 (base 16) CryptoMetrics
160 Michael Cowpland Dr
Ottawa Ontario K2M 1P6
CA

00-1E-2D (hex) STIM
001E2D (base 16) STIM
ZAC les COUSTELLIERS
CASTRIES HERAULT 34160
FR

00-1E-3F (hex) TrellisWare Technologies, Inc.
001E3F (base 16) TrellisWare Technologies, Inc.
16516 Via Esprillo, Suite 300
San Diego CA 92127
US

00-1E-41 (hex) Microwave Communication & Component, Inc.
001E41 (base 16) Microwave Communication & Component, Inc.

#204, WOOLIM LION`S VALLEY 2, 680
Seoul 150-787
KR

00-1E-11 (hex) ELELUX INTERNATIONAL LTD
001E11
(base 16) ELELUX INTERNATIONAL LTD
3F., NO.103 CHOW TZE STREET
TAIPEI 114
TW

00-1E-6D (hex) IT R&D Center
001E6D (base 16) IT R&D Center
461-25, Jeonmin-dong,Yuseong-Gu
Daejeon 305-811
KR

00-1D-F2 (hex) Netflix, Inc.
001DF2 (base 16) Netflix, Inc.
100 Winchester Circle
Los Gatos CA 95032
US

00-1D-EF (hex) TRIMM, INC.
001DEF (base 16) TRIMM, INC.
407 RAILROAD STREET
BUTNER NC 27509
US

00-1D-F1 (hex) Intego Systems, Inc.
001DF1 (base 16) Intego Systems, Inc.
5343 Bowden Road
Jacksonville FL 32216
US

00-1D-ED (hex) Grid Net, Inc.
001DED (base 16) Grid Net, Inc.
340 Brannan Street
San Francisco CA 94107
US

00-1D-D8 (hex) Microsoft Corporation
001DD8 (base 16) Microsoft Corporation
One Microsoft Way
Redmond Washington 98052-6399
US

00-1D-C8 (hex) Navionics Research Inc., dba SCADAmetrics

001DC8 (base 16) Navionics Research Inc.,
dba SCADAmetrics
1133 Pond Road
Wildwood Missouri 63038
US

00-1D-CC (hex) Ayon Cyber Security, Inc
001DCC (base 16) Ayon Cyber Security, Inc
2350 Commerce Park Dr.
Palm Bay FL 32905
US

00-1D-C3 (hex) RIKOR TV, Ltd
001DC3 (base 16) RIKOR TV, Ltd
Kostomarovsky per.,3
Moscow 105120
RU

00-1D-B2 (hex) HOKKAIDO ELECTRIC ENGINEERING CO.,LTD.
001DB2 (base 16) HOKKAIDO ELECTRIC ENGINEERING CO.,LTD.
Nishinopporo 120-8
Ebetu-City Hokkaido 069-0832
JP

00-1D-AD (hex) Sinotech Engineering Consultants, Inc. Geotechnical Enginee
001DAD (base 16) Sinotech Engineering Consultants, Inc. Geotechnical Enginee
Basement No.7 Lane 26, Yat-Sen Rd.
Taipei 110
TW

00-1D-AB (hex) SwissQual License AG
001DAB (base 16) SwissQual License AG
Baarerstrasse 78
Zug Postfach 117
CH

00-1D-FC (hex) KSIC
001DFC (base 16) KSIC
#6F, Korea Federation of Teacher's Associations, 114-1,
TaeBong-Ro,
Seoul Seocho-Ku 137-715
KR

00-1D-92 (hex) MICRO-STAR INT'L CO.,LTD.
001D92 (base 16) MICRO-STAR INT'L CO.,LTD.
No.69,Li-De St,Jung-Ho City
Taipei Hsien 235
TW

00-1D-8A (hex) TechTrex Inc
001D8A (base 16) TechTrex Inc
6221 Highway 7, Unit 12
Woodbridge Ontalio L4H 0K8
CA

00-1D-C1 (hex) Audinate Pty L
001DC1 (base 16) Audinate Pty L
Level 1, 458 Wattle St
Ultimo NSW 2007
AU

00-1D-A0 (hex) Heng Yu Electronic Manufacturing Company Limited
001DA0 (base 16) Heng Yu Electronic Manufacturing Company Limited
Room 1503-5, Nan Fung Com'l Centre,
Kowloon
HK

00-1D-53 (hex) S&O Electronics (Malaysia) Sdn. Bhd.
001D53 (base 16) S&O Electronics (Malaysia) Sdn. Bhd.
Lot 202, Bakar Arang
08000 Sungai Petani Kedah
MY

00-1D-54 (hex) Sunnic Technology & Merchandise INC.
001D54 (base 16) Sunnic Technology & Merchandise INC.
6F, NO.74,ZHOU-Z ST.,
Taipei
114
TW

00-1D-4B (hex) Grid Connect Inc.
001D4B (base 16) Grid Connect Inc.
1630 W. Diehl Rd
Naperville IL 60563
US

00-1D-4D (hex) Adaptive Recognition Hungary, Inc
001D4D (base 16) Adaptive Recognition Hungary, Inc
Kiralyhago ter 8-9
Budapest Europe 1126
HU

00-1D-87 (hex) VigTech Labs Sdn Bhd
001D87 (base 16) VigTech Labs Sdn Bhd
45-11 The Boulevard Mid Valley City
Kuala Lumpur Selangor 59200

MY

00-1D-80 (hex) Beijing Huahuan Eletronics Co.,Ltd
001D80 (base 16) Beijing Huahuan Eletronics Co.,Ltd
No.26,Shangdi 6th St.Haidian District,
Beijing 100085
CN

00-1D-83 (hex) Emitech Corporation
001D83 (base 16) Emitech Corporation
2F,No.7-1,Industry E,Rd.9
Hsinchu 308
TW

00-1D-74 (hex) Tianjin China-Silicon Microelectronics Co., Ltd.
001D74 (base 16) Tianjin China-Silicon Microelectronics Co., Ltd.
301,3F Building 211,No.214 Hongqi Road, Nankai District, Tianjin
China
Tianjin 300190
CN

00-1D-6D (hex) Confidant International LLC
001D6D (base 16) Confidant International LLC
2530 Meridian Pkwy
Durham North Carolina 27713
US

00-1D-7C (hex) ABE Elettronica S.p.A.
001D7C (base 16) ABE Elettronica S.p.A.
Via Leonardo da Vinci, 92
CARAVAGGIO BG 24043
IT

00-1D-75 (hex) Radioscape PLC
001D75 (base 16) Radioscape PLC
1 Albany Terrace
Regent's Park London NW1 4DS
GB

00-1D-05 (hex) Cooper Lighting Solutions
001D05 (base 16) Cooper Lighting Solutions
1121 Highway 74 S
Peachtree City GA 30269
US

00-1C-FF (hex) Napera Networks Inc
001CFF (base 16) Napera Networks Inc
7683 SE 27th

Mercer Island WA 98040
US

00-1D-1D (hex) Inter-M Corporation
001D1D (base 16) Inter-M Corporation
653-5 Banghak-Dong, Dobong-Ku
Seoul 132-846
KR

00-1D-0E (hex) Agapha Technology co., Ltd.
001D0E (base 16) Agapha Technology
co., Ltd.
9F No.121, Shingde Rd.,
Sanchung City Taipei County 241
TW

00-1D-0A (hex) Davis Instruments, Inc.
001D0A (base 16) Davis Instruments, Inc.
3465 Diablo Ave.
Hayward CA 94545
US

00-1D-5F (hex) OverSpeed SARL
001D5F (base 16) OverSpeed SARL
15, allee du Bois Cailley
Le Thuit-Signol Normandie 27370
FR

00-1D-58 (hex) CQ Inc
001D58 (base 16) CQ Inc
5F, No. 43, Lane 76, Rui Guang Road
Taipei 114
TW

00-1D-2F (hex) QuantumVision Corporation
001D2F (base 16) QuantumVision Corporation
335 Plantation Way
Roswell Ga 30075
US

00-1C-E5 (hex) MBS Electronic Systems GmbH
001CE5 (base 16) MBS Electronic Systems GmbH
Ringstrasse 3
82319 Starnberg Bavaria 82319
DE

00-1C-DD (hex) COWBELL ENGINEERING CO., LTD.
001CDD (base 16) COWBELL ENGINEERING CO., LTD.

1739-1 Nagatoro
SAKU Nagano 385-0021
JP

00-1C-DC (hex) Custom Computer Services, Inc.
001CDC
(base 16) Custom Computer Services, Inc.
1020 Spring City Drive
Waukesha WI 53186
US

00-1C-64 (hex) Landis+Gyr
001C64 (base 16) Landis+Gyr
30000 Mill Creek Ave. Suite 100
Alpharetta GA 30022
US

00-1C-57 (hex) Cisco Systems, Inc
001C57 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1C-C2 (hex) Part II Research, Inc.
001CC2 (base 16) Part II Research, Inc.
4601 E. Airport Dr.
Ontario CA 91761
US

00-1C-BD (hex) Ezze Mobile Tech., Inc.
001CBD (base 16) Ezze Mobile Tech., Inc.
3F, Bubmusa Bldg., 151-31
Seoul 135-824
KR

00-1C-B8 (hex) CBC Co., Ltd
001CB8 (base 16) CBC Co., Ltd
2-15-13, Tsukishima, Chuo-ku
Tokyo 104-0052
JP

00-1C-BA (hex) VerScient, Inc.
001CBA (base 16) VerScient, Inc.
7700 Equitable Drive
Eden Prairie MN 55344
US

00-1C-B0 (hex) Cisco Systems, Inc

001CB0 (base 16) Cisco Systems,
Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1C-D1 (hex) Waves Audio LTD
001CD1 (base 16) Waves Audio LTD
Azrilei Center 3, Triangle tower
Tel Aviv Central 67023
IL

00-1C-84 (hex) STL Solution Co.,Ltd.
001C84 (base 16) STL Solution Co.,Ltd.
#710, World Meridian Venture Center I
Seoul 152781
KR

00-1C-79 (hex) Cohesive Financial Technologies LLC
001C79 (base 16) Cohesive Financial Technologies LLC
200 South Wacker Dr.
Chicago IL 60606
US

00-1C-6D (hex) KYOHRITSU ELECTRONIC INDUSTRY CO., LTD.
001C6D (base 16) KYOHRITSU ELECTRONIC INDUSTRY CO., LTD.
2-5-1, NIPPONBASHI-NISHI,
OSAKA 556-0004
JP

00-1C-ED (hex) ENVIRONNEMENT SA
001CED (base 16) ENVIRONNEMENT SA
111 bd. Robespierre
POISSY Yvelines 78300
FR

00-1C-8B (hex) MJ Innovations Ltd.
001C8B (base 16) MJ Innovations Ltd.
333 Wyecroft Road
Oakville Ontario L6K 2H2
CA

00-1C-82 (hex) Genew
Technologies
001C82 (base 16) Genew Technologies
3A3 Building B1, Cyber-tech Zone,
Shenzhen Guangdong 518057
CN

00-1C-9D (hex) Liecthi AG
001C9D (base 16) Liecthi AG
10 Unterholz Street
Kriegstetten Solothurn 4566
CH

00-1C-96 (hex) Linkwise Technology Pte Ltd
001C96 (base 16) Linkwise Technology Pte Ltd
Blk 3, Ang Mo Kio Industrial Park 2A
568050
SG

00-1C-AC (hex) Qniq Technology Corp.
001CAC (base 16) Qniq Technology Corp.
5F, No.133, Sec.4, Minsheng E. Rd.,
Taipei 105
TW

00-1C-A5 (hex) Zygo Corporation
001CA5 (base 16) Zygo Corporation
21 Laurel Brook Rd.
Middlefield CT 06455
US

00-1C-29 (hex) CORE DIGITAL ELECTRONICS CO., LTD
001C29 (base 16) CORE DIGITAL ELECTRONICS CO., LTD
1006# 102 CHUNUITECHNOPARK 200-1
BUCHEON-CITY GYUNGGI-DO 420-857
KR

00-1C-24 (hex) Formosa Wireless Systems Corp.
001C24 (base 16) Formosa Wireless Systems Corp.
No.
408, Guandong Rd.,
HsinChu City 300
TW

00-1C-20 (hex) CLB Benelux
001C20 (base 16) CLB Benelux
Ramgatseweg 17
Raamsdonksveer NBR 4941 VN
NL

00-1C-1C (hex) Center Communication Systems GmbH
001C1C (base 16) Center Communication Systems GmbH
Ignaz-Koeck-Strasse 19
Vienna A-1210

AT

00-1C-15 (hex) iPhotonix LLC
001C15 (base 16) iPhotonix LLC
2600 N Central Expressway
Richardson Texas 75080
US

00-1C-4C (hex) Petrotest Instruments
001C4C (base 16) Petrotest Instruments
Ludwig-Erhard-Ring 13
Dahlewitz BBG 15827
DE

00-1C-3C (hex) Seon Design Inc.
001C3C (base 16) Seon Design Inc.
111-3B Burbidge Street
Coquitlam BC V3K 7B2
CA

00-1C-5D (hex) Leica Microsystems
001C5D (base 16) Leica Microsystems
Lothbury House Cambridge Technopark
Cambridge CB5 8PB
GB

00-1C-5E (hex) ASTON France
001C5E (base 16) ASTON France
151 Avenue Gallieni
BAGNOLET
ile de france 93177
FR

00-1C-5B (hex) Chubb Electronic Security Systems Ltd
001C5B (base 16) Chubb Electronic Security Systems Ltd
Shadsworth Road
Blackburn Lancashire BB1 2PR
GB

00-1C-55 (hex) Shenzhen Kaifa Technology Co.
001C55 (base 16) Shenzhen Kaifa Technology Co.
7006 Caitian Road, Futian District,
Shenzhen Guangdong 518035
CN

00-1C-44 (hex) Bosch Security Systems BV
001C44 (base 16) Bosch Security Systems BV
Kapittelweg 10

4827 HG Breda Brabant 4827
NL

00-1B-D1 (hex) SOGESTMATIC
001BD1 (base 16) SOGESTMATIC
409 Route de la Gare
CHATEAUNEUF DE GADAGNE PACA 84470
FR

00-1B-D6 (hex) Kelvin Hughes Ltd
001BD6 (base 16) Kelvin Hughes Ltd
New North Road
Ilford Essex IG6 2UR
GB

00-1B-CF (hex) Dataupia Corporation
001BCF (base 16) Dataupia Corporation
One Alewife Center
Cambridge MA 02140
US

00-1B-CB (hex) PEMPEK SYSTEMS
PTY LTD
001BCB (base 16) PEMPEK SYSTEMS PTY LTD
UNIT 3 / 13 HOYLE AVENUE
CASTLE HILL NSW 2154
AU

00-1B-BD (hex) FMC Kongsberg Subsea AS
001BBD (base 16) FMC Kongsberg Subsea AS
Kirkegaardsveien 45
Kongsberg Buskerud 3601
NO

00-1B-BE (hex) ICOP Digital
001BBE (base 16) ICOP Digital
16801 W. 116th St.
Lenexa KS 66219
US

00-1B-B3 (hex) Condalo GmbH
001BB3 (base 16) Condalo GmbH
Kohlstatt 3
Lichtenau Bavaria 86706
DE

00-1B-B7 (hex) Alta Heights Technology Corp.
001BB7 (base 16) Alta Heights Technology Corp.

108 Alta Heights Court
Los Gatos California 95030
US

00-1C-07 (hex) Cwlinux Limited
001C07 (base 16) Cwlinux Limited
Unit 138, 13/F, Weswick Commercial Building,
Wan Chai
HK

00-1C-00 (hex) Entry Point, LLC
001C00 (base 16) Entry Point, LLC
735 Robins
Idaho Falls Idaho 83401
US

00-1B-FD (hex) Dignsys Inc.
001BFD (base 16) Dignsys
Inc.
14F, Digital Empire Bldg., B-1408
Suwon Gyeonggi-do 443-813
KR

00-1B-E2 (hex) AhnLab,Inc.
001BE2 (base 16) AhnLab,Inc.
6th Fl, CCMM Bldg, 12 Yeouido-dong
Seoul 150869
KR

00-1B-E0 (hex) TELENOT ELECTRONIC GmbH
001BE0 (base 16) TELENOT ELECTRONIC GmbH
Wiesentalstraße 42
Aalen Baden-Württemberg 73434
DE

00-1B-DA (hex) UTStarcom Inc
001BDA (base 16) UTStarcom Inc
1275 Harbor Bay PKWY
Alameda CA 94502
US

00-1C-31 (hex) Mobile XP Technology Co., LTD
001C31 (base 16) Mobile XP Technology Co., LTD
Room No.2506,Tri-tower C building,No.66 Zhongguancun East Road,Haidian District
Beijing 100080
CN

00-1C-34 (hex) HUEY CHIAO INTERNATIONAL CO., LTD.

001C34 (base 16) HUEY CHIAO INTERNATIONAL CO., LTD.
5F, NO. 649-1,
HSIN CHUANG CITY TAIPEI 242
TW

00-1C-36 (hex) iNEWiT NV
001C36 (base 16) iNEWiT NV
Schaliënhoevedreef 20D
Mechelen Antwerp 2800
BE

00-1B-F5
(hex) Tellink Sistemas de Telecomunicación S.L.
001BF5 (base 16) Tellink Sistemas de Telecomunicación S.L.
C/ María Tubau Nº 5 Bajo B
Madrid 28050
ES

00-1B-E6 (hex) VR AG
001BE6 (base 16) VR AG
Rütistrasse 18
Schlieren CH-8952
CH

00-1B-AC (hex) Curtiss Wright Controls Embedded Computing
001BAC (base 16) Curtiss Wright Controls Embedded Computing
10201 Wateridge Circle
San Diego CA 92121
US

00-1B-8C (hex) JMicron Technology Corp.
001B8C (base 16) JMicron Technology Corp.
1F, No.13, Innovation Road 1
Hsinchu 300
TW

00-1B-91 (hex) EFKON AG
001B91 (base 16) EFKON AG
Dietrich-Keller-Strasse 20
8074 Raaba
AT

00-1B-89 (hex) EMZA Visual Sense Ltd.
001B89 (base 16) EMZA Visual Sense Ltd.
20 Ha'ta'as St., Beith Hapamon
Kfar Saba 44425
IL

00-1B-8B (hex) NEC Platforms, Ltd.
001B8B (base 16) NEC Platforms, Ltd.
800 Shimomata
Kakegawa
Shizuoka 436-8501
JP

00-1B-82 (hex) Taiwan Semiconductor Co., Ltd.
001B82 (base 16) Taiwan Semiconductor Co., Ltd.
11F, No. 205, Sec. 3, Beishin Rd,
Shindian Taipei 231
TW

00-1B-85 (hex) MAN Energy Solutions
001B85 (base 16) MAN Energy Solutions
Teglholmsgade 41
Copenhagen 2450
DK

00-1B-7B (hex) The Tintometer Ltd
001B7B (base 16) The Tintometer Ltd
Solar Way
Amesbury Wiltshire SP4 7SZ
GB

00-1B-67 (hex) Cisco Systems Inc
001B67 (base 16) Cisco Systems Inc
The Stella Building
Swindon Wiltshire SN5 6NX
GB

00-1B-66 (hex) Sennheiser electronic GmbH & Co. KG
001B66 (base 16) Sennheiser electronic GmbH & Co. KG
Am Labor 1
Wedemark Niedersachsen 30900
DE

00-1B-60 (hex) NAVIGON AG
001B60 (base 16) NAVIGON AG
Berliner Platz 11
Wuerzburg Bavaria 97080
DE

00-1B-A3 (hex) Flexit Group GmbH
001BA3 (base 16) Flexit Group GmbH
Bräuhausstraße
14
Salzburg Salzburg 5020

AT

00-1B-9F (hex) Calyptech Pty Ltd
001B9F (base 16) Calyptech Pty Ltd
5/486 Lower Heidelberg Road
Heidelberg Victoria 3084
AU

00-1B-99 (hex) KS System GmbH
001B99 (base 16) KS System GmbH
Alexanderstraße 37
Muelheim NRW 45472
DE

00-1B-9A (hex) Apollo Fire Detectors Ltd
001B9A (base 16) Apollo Fire Detectors Ltd
36 Brookside Road
Havant Hampshire P09 1JR
GB

00-1B-49 (hex) Roberts Radio limited
001B49 (base 16) Roberts Radio limited
Swinton Works
Mexborough South Yorkshire S64 8AJ
GB

00-1B-4E (hex) Navman New Zealand
001B4E (base 16) Navman New Zealand
7-21 Kawana Street
Auckland 0627
NZ

00-1B-43 (hex) Beijing DG Telecommunications equipment Co.,Ltd
001B43 (base 16) Beijing DG Telecommunications equipment Co.,Ltd
No.5 Jiangtai Road, Chaoyang District
Beijing 100016
CN

00-1B-57 (hex) SEMINDIA SYSTEMS PRIVATE
LIMITED
001B57 (base 16) SEMINDIA SYSTEMS PRIVATE LIMITED
#1106/9,A.M.Industrial Estate,Garvebhai palya,
BANGALORE KARNATAKA 560068
IN

00-1B-55 (hex) Hurco Automation Ltd.
001B55 (base 16) Hurco Automation Ltd.
6F, No. 31, Shintai Rd.

Jubei City, Hsinchu Hsien 30244
TW

00-1B-53 (hex) Cisco Systems, Inc
001B53 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1B-3C (hex) Software Technologies Group,Inc.
001B3C (base 16) Software Technologies Group,Inc.
10330 W. Roosevelt Road
Weschester IL 60154
US

00-1B-3D (hex) EuroTel Spa
001B3D (base 16) EuroTel Spa
viale Martiri della Liberta,4
Lissone Milan 20035
IT

00-1B-31 (hex) Neural Image. Co. Ltd.
001B31 (base 16) Neural Image. Co. Ltd.
A307, CASI, Osaka Univ.
Suita city Osaka 565-0871
JP

00-1B-75 (hex) Hypermedia Systems
001B75 (base 16) Hypermedia Systems
2B Bergman
St.
Rehovot 76705
IL

00-1B-6A (hex) Powerwave Technologies Sweden AB
001B6A (base 16) Powerwave Technologies Sweden AB
164 26
Knarrarnäsgatan 7, Kista
SE

00-1A-E6 (hex) Atlanta Advanced Communications Holdings Limited
001AE6 (base 16) Atlanta Advanced Communications Holdings Limited
1900 West Oak Circle, Marietta
Atlanta Georgia 30062
US

00-1A-D9 (hex) International Broadband Electric Communications, Inc.
001AD9 (base 16) International Broadband Electric Communications, Inc.

285 Dunlop Blvd. SW
Huntsville AL 35824
US

00-1B-29 (hex) Avantis.Co.,Ltd
001B29 (base 16) Avantis.Co.,Ltd
502 SEOIL BLDG.
SEOUL 132-872
KR

00-1B-28 (hex) POLYGON, JSC
001B28 (base 16) POLYGON, JSC
37/1, Karl Marx str., floor 5
Ufa Bashkortostan 450077
RU

00-1B-2B (hex) Cisco Systems, Inc
001B2B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1B-27
(hex) Merlin CSI
001B27 (base 16) Merlin CSI
12625 Danielson Court
Poway CA 92064
US

00-1B-1B (hex) Siemens AG,
001B1B (base 16) Siemens AG,
I IA SC MF-K PE 3
76187 Karlsruhe Baden Wuerttemberg
DE

00-1B-1F (hex) FORCE Technology
001B1F (base 16) FORCE Technology
Venlighedsvej 4
Horsholm 2970
DK

00-1A-C8 (hex) ISL (Instrumentation Scientifique de Laboratoire)
001AC8 (base 16) ISL (Instrumentation Scientifique de Laboratoire)
Impasse des 4 vents
VERSON CALVADOS 14790
FR

00-1B-0E (hex) InoTec GmbH Organisationssysteme

001B0E (base 16) InoTec GmbH Organisationssysteme
Biedrichstrasse 11
Woelfersheim Hessen D-61200
DE

00-1B-04 (hex) Affinity International S.p.a
001B04 (base 16) Affinity International S.p.a
C.so Savona 51
Villastellone I10029
IT

00-1B-06 (hex) Ateliers R. LAUMONIER
001B06 (base 16) Ateliers R. LAUMONIER
Ateliers
R. LAUMONIER
Nesles-la-Vallée Val d'Oise 95690
FR

00-1A-AB (hex) eWings s.r.l.
001AAB (base 16) eWings s.r.l.
via S. Quasimodo 46
Castel Maggiore Bologna 40013
IT

00-1A-AC (hex) Corelatus AB
001AAC (base 16) Corelatus AB
Tegnergatan 37
Stockholm 11161
SE

00-1A-AF (hex) BLUSENS TECHNOLOGY
001AAF (base 16) BLUSENS TECHNOLOGY
EDIFICIO CNL,- AV.
15707 - SANTIAGO DE COMPOSTELA A Coruña
ES

00-1B-05 (hex) YMC AG
001B05 (base 16) YMC AG
Sonnenstrasse 4
Kreuzlingen Thurgau 8280
CH

00-1A-FF (hex) Wizyoung Tech.
001AFF (base 16) Wizyoung Tech.
9F, No. 25, Sec. 1, Nanjing E. Rd.
Taipei 104
TW

00-1B-00 (hex) Neopost Technologies
001B00 (base 16) Neopost Technologies
113 rue Jean-Marin Naudin
Bagneux 92220
FR

00-1B-16 (hex) Celtro Ltd.
001B16 (base 16) Celtro Ltd.
Azorim Business Park
Petach Tikva 49527
IL

00-1A-C6 (hex) Micro
Control Designs
001AC6 (base 16) Micro Control Designs
17490 Caribou Dr
Monument Co. 80132
US

00-1A-F2 (hex) Dynavisions Schweiz AG
001AF2 (base 16) Dynavisions Schweiz AG
Freisinger Landstraße 21
D-80939 Muenchen
DE

00-1A-7D (hex) cyber-blue(HK)Ltd
001A7D (base 16) cyber-blue(HK)Ltd
Room 1408 block C stars Plaza HongLiRoad,FuTian District
Shenzhen GuangDong 518028
CN

00-1A-82 (hex) PROBA Building Automation Co.,LTD
001A82 (base 16) PROBA Building Automation Co.,LTD
Penghuan Building 501, Shangdi East Road #1, Haidian District,
Beijing 100085
CN

00-1A-7C (hex) Hirschmann Multimedia B.V.
001A7C (base 16) Hirschmann Multimedia B.V.
Pampuslaan 170
Weesp Noord-Holland 1382 JS
NL

00-1A-7A (hex) Lismore Instruments Limited
001A7A (base 16) Lismore Instruments Limited
Unit 2 Tristar Centre, Star Road
Horsham West Sussex RH13 8RA
GB

00-1A-78 (hex) ubtos
001A78
(base 16) ubtos
Rn.213, Woolim Lions Valley, #680
seoul Gasan-dong 153-803
KR

00-1A-76 (hex) SDT information Technology Co.,LTD.
001A76 (base 16) SDT information Technology Co.,LTD.
Samil B/B 2F, 5-63 Hyochang-dong
Seoul 140-896
KR

00-1A-70 (hex) Cisco-Linksys, LLC
001A70 (base 16) Cisco-Linksys, LLC
121 Theory Drive
Irvine California 92612
US

00-1A-56 (hex) ViewTel Co,. Ltd.
001A56 (base 16) ViewTel Co,. Ltd.
#B-502,Bundang Techno Park 148
BunDang-Ku, SeongNam-Si GyeongGi-Do 463-760
KR

00-1A-50 (hex) PheeNet Technology Corp.
001A50 (base 16) PheeNet Technology Corp.
Rm. 3, 20F, No. 79, Sec. 1 Hsin Tai Wu Rd.
Hsi-Chih New-Taipei City 221
TW

00-1A-53 (hex) Zylaya
001A53 (base 16) Zylaya
444 N. Frederick Ave.
Gaithersburg MD 20877
US

00-1A-4C (hex) Crossbow Technology, Inc
001A4C (base 16) Crossbow Technology, Inc
4145 N. First Street
San
Jose CA 95134
US

00-1A-61 (hex) PacStar Corp.
001A61 (base 16) PacStar Corp.
15055 SW Sequoia Pkwy, Suite 100

Portland OR 97006
US

00-1A-42 (hex) Techcity Technology co., Ltd.
001A42 (base 16) Techcity Technology co., Ltd.
4F, No. 4, Alley 1, Szu Wei Lane, Chung Cheng Rd.,
Hsin Tein City Taipei Hsien 231
TW

00-1A-65 (hex) Seluxit
001A65 (base 16) Seluxit
Sofiendalsvej 74
Aalborg SV 9200
DK

00-1A-54 (hex) Hip Shing Electronics Ltd.
001A54 (base 16) Hip Shing Electronics Ltd.
Unit 1/2/3, 20/F, New Treasure Center

HK

00-1A-60 (hex) Wave Electronics Co.,Ltd.
001A60 (base 16) Wave Electronics Co.,Ltd.
3th Fl.,DaeSan Plaza B/D,Guun-Dong, 12-1,Gwonseon-Gu
Suwon-si Kyeonggi-Do 441-814
KR

00-1A-A1 (hex) Cisco Systems, Inc
001AA1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-1A-B0 (hex) Signal Networks Pvt. Ltd.,
001AB0
(base 16) Signal Networks Pvt. Ltd.,
No.12, Kalpataru Apartments,
Bangalore Karnataka 560001
IN

00-19-F8 (hex) Embedded Systems Design, Inc.
0019F8 (base 16) Embedded Systems Design, Inc.
6810 Deerpath Road
Elkridge MD 21075
US

00-19-EF (hex) SHENZHEN LINNKING ELECTRONICS CO.,LTD
0019EF (base 16) SHENZHEN LINNKING ELECTRONICS CO.,LTD

Room 901,B Block,Qinghua Information Center Hi-tec park North District,Nanshan District,Shenzhen
shenzhen guangdong 518057
CN

00-19-F3 (hex) Cetis, Inc
0019F3 (base 16) Cetis, Inc
5025 Galley Rd
Colorado Springs CO 80915
US

00-19-F5 (hex) Imagination Technologies Ltd
0019F5 (base 16) Imagination Technologies Ltd
Home Park Estate
Kings Langley Hertfordshire WD4 8LZ
GB

00-19-F7 (hex) Onset Computer Corporation
0019F7 (base 16) Onset Computer Corporation
P.O. Box 3450
Pocasset MA 02559
US

00-19-EE (hex) CARLO GAVAZZI
CONTROLS SPA-Controls Division
0019EE (base 16) CARLO GAVAZZI CONTROLS SPA-Controls Division
Via Safforze 8
BELLUNO BL I-32100
IT

00-19-EB (hex) Pyronix Ltd
0019EB (base 16) Pyronix Ltd
Braithwell Way
Rotherham South Yorkshire S66 8QY
GB

00-19-E7 (hex) Cisco Systems, Inc
0019E7 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-19-E9 (hex) S-Information Technolgy, Co., Ltd.
0019E9 (base 16) S-Information Technolgy, Co., Ltd.
Sungwoo Bldg, 717-3 Suseo-dong,
Seoul 135-884
KR

00-19-DA (hex) Welltrans O&E Technology Co. , Ltd.

0019DA (base 16) Welltrans O&E Technology Co. , Ltd.
the 3rd Floor, building C-D, Hi-tech Digital Harbor, Guandong Industrial Park
Wuhan Hubei 430074
CN

00-19-D0 (hex) Cathexis
0019D0 (base 16) Cathexis
PO Box 1091
Durban KwaZulu Natal 4320
ZA

00-19-D6 (hex) LS Cable and System Ltd.
0019D6 (base 16) LS
Cable and System Ltd.
12F LS Tower, 1026-6, Hogey-dong
Anyang-si Gyeonggi-do 431-080
KR

00-19-D7 (hex) FORTUNETEK CO., LTD
0019D7 (base 16) FORTUNETEK CO., LTD
12F, No. 75, Sec 1, Chongqing S. Rd.,
Taipei 100
TW

00-19-BF (hex) Citiway technology Co.,ltd
0019BF (base 16) Citiway technology Co.,ltd
No.2 Building,Jia 32,Beiheyan Avenue,East City
Peijing 100006
CN

00-19-B6 (hex) Euro Emme s.r.l.
0019B6 (base 16) Euro Emme s.r.l.
Via Belvedere, 24
Galliate Lombardo Varese 21020
IT

00-19-B5 (hex) Famar Fueguina S.A.
0019B5 (base 16) Famar Fueguina S.A.
Rodney 70
Buenos Aires 1427
AR

00-19-B8 (hex) Boundary Devices
0019B8 (base 16) Boundary Devices
7200 W. Oakland
Chandler AZ 85226
US

00-1A-10 (hex) LUCENT TRANS ELECTRONICS CO.,LTD
001A10 (base 16) LUCENT TRANS ELECTRONICS CO.,LTD
9F-1,No.16,Chien Pah Rd.
Chung Ho Taipei 235
TW

00-1A-0C
(hex) Swe-Dish Satellite Systems AB
001A0C (base 16) Swe-Dish Satellite Systems AB
Torggatan 15
Solna Stockholm SE-171 06
SE

00-1A-07 (hex) Arecont Vision
001A07 (base 16) Arecont Vision
2400 N. Lincoln Ave
Altadena CA 91001
US

00-1A-08 (hex) Simoco Ltd.
001A08 (base 16) Simoco Ltd.
Field House
Derby DE1 1NH
GB

00-1A-1A (hex) Gentex Corporation/Electro-Acoustic Products
001A1A (base 16) Gentex Corporation/Electro-Acoustic Products
2456 Brown Avenue
Manchester NH 03103
US

00-1A-12 (hex) Essilor
001A12 (base 16) Essilor
64 Bis Avenue Aubert
94300 Vincennes
FR

00-1A-14 (hex) Xin Hua Control Engineering Co.,Ltd.
001A14 (base 16) Xin Hua Control Engineering Co.,Ltd.
160 Wenjing Rd., Minhang
Shanghai 2000245
CN

00-19-AC (hex) GSP SYSTEMS Inc.
0019AC (base 16) GSP SYSTEMS Inc.
13FL, 101 Dong, Chunui Techno Park 1,
Bucheon-City Gyeonggi-Do

420-857
KR

00-19-C9 (hex) S&C ELECTRIC COMPANY
0019C9 (base 16) S&C ELECTRIC COMPANY
1135 ATLANTIC AVE
ALAMEDA CA 94501
US

00-1A-04 (hex) Interay Solutions BV
001A04 (base 16) Interay Solutions BV
Mr. W.M. Oppedijk van Veenweg 8
BURGUM Friesland 9251 GA
NL

00-1A-02 (hex) SECURE CARE PRODUCTS, INC
001A02 (base 16) SECURE CARE PRODUCTS, INC
39 CHENELL DRIVE
CONCORD NH 03301
US

00-19-5D (hex) ShenZhen XinHuaTong Opto Electronics Co.,Ltd
00195D (base 16) ShenZhen XinHuaTong Opto Electronics Co.,Ltd
5F,BaodaZhou,Shancheng Industrial Zone,BaoAn District
ShenZhen GuangDong 518108
CN

00-19-53 (hex) Chainleader Communications Corp.
001953 (base 16) Chainleader Communications Corp.
5F, No. 400, Sec. 2 Bade Rd.,
Taipei 105
TW

00-19-55 (hex) Cisco Systems, Inc
001955 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-19-59 (hex) Staccato
Communications Inc.
001959 (base 16) Staccato Communications Inc.
6195 Lusk Blvd.
San Diego CA 92121
US

00-19-4D (hex) Avago Technologies Sdn Bhd
00194D (base 16) Avago Technologies Sdn Bhd

Bayan Lepas Free Industrial Zone
Bayan Lepas Penang 11900
MY

00-19-4E (hex) Ultra Electronics - TCS (Tactical Communication Systems)
00194E (base 16) Ultra Electronics - TCS (Tactical Communication Systems)
5990 Cote De Liesse
TMR Quebec H4T 1V7
CA

00-19-B0 (hex) HanYang System
0019B0 (base 16) HanYang System
701Ho, Kofomo Techno Center II, 1289-5
Shihung-Shi Kyunggi-Do 429-850
KR

00-19-95 (hex) Jurong Hi-Tech (Suzhou)Co.ltd
001995 (base 16) Jurong Hi-Tech (Suzhou)Co.ltd
275,Xing Long Street, Suzhou Indudtrial Park
Suzhou Jiang Su 215021
CN

00-19-9A (hex) EDO-EVI
00199A (base 16) EDO-EVI
7065 Columbia Gateway Dr.
Columbia MD 21046
US

00-19-94 (hex) Jorjin
Technologies Inc.
001994 (base 16) Jorjin Technologies Inc.
5F, No.28, Lane141, Sing-ai Rd.
Taipei 114
TW

00-19-34 (hex) TRENDON TOUCH TECHNOLOGY CORP.
001934 (base 16) TRENDON TOUCH TECHNOLOGY CORP.
2F No.5, Alley 22, Lane 513, Rueiguang Rd., Neihu
Taipei City 114
TW

00-19-23 (hex) Phonex Korea Co., LTD.
001923 (base 16) Phonex Korea Co., LTD.
33-3, Geoyeo-Dong
Seoul Songpa-Gu 138-814
KR

00-19-1C (hex) Sensicast Systems

00191C (base 16) Sensicast Systems
200 Reservoir St
Needham MA 02494
US

00-19-A0 (hex) NIHON DATA SYSTENS, INC.
0019A0 (base 16) NIHON DATA SYSTENS, INC.
6-9, Koyo-cho naka
Kobe-shi Hyogo 658-0032
JP

00-19-91 (hex) avinfo
001991 (base 16) avinfo
Jiahuiyuan 703,Huaao Center,31# Zizhuyuan Road,
Beijing 100089
CN

00-19-8C (hex) iXSea
00198C (base 16) iXSea
55 av auguste Renoir
Marly le Roi 78160
FR

00-19-62
(hex) Commerciant, LP
001962 (base 16) Commerciant, LP
2901 Wilcrest
Houston Texas 77042
US

00-19-33 (hex) Strix Systems, Inc.
001933 (base 16) Strix Systems, Inc.
26610 Agoura Road
Calabasas CA 91302
US

00-19-7C (hex) Riedel Communications GmbH
00197C (base 16) Riedel Communications GmbH
Uellendahler Str. 353
Wuppertal NRW 42109
DE

00-19-6F (hex) SensoPart GmbH
00196F (base 16) SensoPart GmbH
Am Wiedenbach 1
Wieden Baden-Württemberg D-79695
DE

00-18-E5 (hex) Adhoco AG
0018E5 (base 16) Adhoco AG
Technopark
Winterthur ZH CH-8406
CH

00-18-DD (hex) Silicondust Engineering Ltd
0018DD (base 16) Silicondust Engineering Ltd
38 Lillington Road
Auckland
NZ

00-18-DF (hex) The Morey Corporation
0018DF (base 16) The Morey Corporation
100 Morey Drive
Woodridge IL 60517
US

00-18-E1 (hex) Verkerk Service Systemen
0018E1 (base 16) Verkerk
Service Systemen
Molenvliet 1
Zwijndrecht Zuid-Holland NL-3335LH
NL

00-18-DA (hex) Würth Elektronik eiSos GmbH & Co. KG
0018DA (base 16) Würth Elektronik eiSos GmbH & Co. KG
Max-Eyth-Straße 1
Waldenburg 74638
DE

00-18-D5 (hex) REIGNCOM
0018D5 (base 16) REIGNCOM
14F Kamco Yanjae Tower, 949-3
Seoul 135-739
KR

00-19-15 (hex) TECOM Co., Ltd.
001915 (base 16) TECOM Co., Ltd.
23 R&D Road 2 Science Based Industrial Park
Hsin-Chu 300
TW

00-19-1B (hex) Sputnik Engineering AG
00191B (base 16) Sputnik Engineering AG
Höheweg 85
Biel-Bienne BE 2502
CH

00-19-09 (hex) DEVI - Danfoss A/S
001909 (base 16) DEVI - Danfoss A/S
Ulvehavevej 61
Vejle 7100
DK

00-19-0A (hex) HASWARE INC.
00190A (base 16) HASWARE INC.
4-12-3 HIGASHI
KUNITACHI TOKYO 186-0002
JP

00-18-D4 (hex) Unified Display Interface SIG
0018D4 (base 16) Unified Display Interface
SIG
15201 SW Greenbrier Road
Beaverton Oregon 97006
US

00-18-A8 (hex) AnNeal Technology Inc.
0018A8 (base 16) AnNeal Technology Inc.
Room 106, No. 47, Science Park Rd. II
Hsinchu 300
TW

00-18-A2 (hex) XIP Technology AB
0018A2 (base 16) XIP Technology AB
PO Box 437
Jönköping Sweden SE- 551 16
SE

00-18-9C (hex) Weldex Corporation
00189C (base 16) Weldex Corporation
6751 Katella Avenue
Cypress CA 90630
US

00-18-9A (hex) HANA Micron Inc.
00189A (base 16) HANA Micron Inc.
#95-1 Wonnam-Li, Umbong-Myeon
Asan-City Chung-Nam 336-864
KR

00-18-E7 (hex) Cameo Communications, INC.
0018E7 (base 16) Cameo Communications, INC.
NO.42, Sec. 6, Mincyuan E. Rd.
Taipei 114

TW

00-18-E4 (hex) YIGUANG
0018E4 (base 16) YIGUANG
3/FL.Industry zone,Fuxinlin,Hangcheng,Xixiang,Baoan
Shenzhen Guangdong 518126
CN

00-19-28 (hex) Siemens AG, Transportation
Systems
001928 (base 16) Siemens AG, Transportation Systems
Ackerstraße 22
Braunschweig 38126
DE

00-19-0D (hex) IEEE 1394c
00190D (base 16) IEEE 1394c
c/o 1394 Trade Association
Southlake TX 76092
US

00-19-04 (hex) WB Electronics Sp. z o.o.
001904 (base 16) WB Electronics Sp. z o.o.
ul. Poznanska 129/133
Ozarow Mazowiecki Mazowieckie 05-850
PL

00-18-A9 (hex) Ethernet Direct Corporation
0018A9 (base 16) Ethernet Direct Corporation
19F,No.345 Chung Ho Road, Yung Ho City
Taipei 234
TW

00-18-A7 (hex) Yoggie Security Systems LTD.
0018A7 (base 16) Yoggie Security Systems LTD.
P.P.Box 156
Beth Halevy 42870
IL

00-18-C2 (hex) Firetide, Inc
0018C2 (base 16) Firetide, Inc
16795 Lark Av, Suite 200
Los Gatos CA 95032
US

00-18-1A (hex) AVerMedia Information Inc.
00181A (base 16) AVerMedia Information Inc.
5F., No. 135, Jian 1st Rd.,

New Taipei City
235
TW

00-18-16 (hex) Ubixon Co., Ltd.
001816 (base 16) Ubixon Co., Ltd.
Cheongdong Building 2F
Seoul 137-070
KR

00-18-06 (hex) Hokkei Industries Co., Ltd.
001806 (base 16) Hokkei Industries Co., Ltd.
Imahira 432
Hakusan Ishikawa 924-0827
JP

00-18-3E (hex) Digilent, Inc
00183E (base 16) Digilent, Inc
215 E. Main St.
Pullman WA 99163
US

00-18-42 (hex) Nokia Danmark A/S
001842 (base 16) Nokia Danmark A/S
Frederikskaj
Copenhagen V DK-1790
DK

00-18-40 (hex) 3 Phoenix, Inc.
001840 (base 16) 3 Phoenix, Inc.
14585 Avion Pkway
Chantilly Virginia 20151
US

00-18-44 (hex) Heads Up Technologies, Inc.
001844 (base 16) Heads Up Technologies, Inc.
2033 Chennault Drive, Suite 100
Carrollton Texas 75006-5119
US

00-18-21 (hex) SINDORICOH
001821 (base 16) SINDORICOH
277-22, 2ga, Sungsu-dong, Sungdong-gu,
Seoul 133-120
KR

00-18-23 (hex) Delta

Electronics, Inc.
001823 (base 16) Delta Electronics, Inc.
186 Ruey Kuang Road, Neihu,
Taipei 114
TW

00-18-15 (hex) GZ Technologies, Inc.
001815 (base 16) GZ Technologies, Inc.
Room 1, 5F., No.94, Baojhong Rd.
Taipei 231
TW

00-18-18 (hex) Cisco Systems, Inc
001818 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-18-73 (hex) Cisco Systems, Inc
001873 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-18-7A (hex) Wiremold
00187A (base 16) Wiremold
60 Woodlawn St.
West Hartford CT 06110
US

00-18-6C (hex) Neonode AB
00186C (base 16) Neonode AB
Biblioteksgatan 11, 1st floor
Stockholm S-111 46
SE

00-18-57 (hex) Unilever R&D
001857 (base 16) Unilever R&D
Bldg. 50
Bedford Bedfordshire MK44 1LQ
GB

00-18-53 (hex) Atera Networks LTD.
001853 (base 16) Atera Networks LTD.
31,
Habarzel St.
Tel-Aviv 69710
IL

00-18-59 (hex) Strawberry Linux Co.,Ltd.
001859 (base 16) Strawberry Linux Co.,Ltd.
1-28-8-204 Higashiayase
Adachiku Tokyo 120-0004
JP

00-18-4F (hex) 8 Ways Technology Corp.
00184F (base 16) 8 Ways Technology Corp.
2F-1, No. 216, Sec. 3, Roosevelt Rd.
Taipei 231
TW

00-18-2B (hex) Softier
00182B (base 16) Softier
Tidhar 3
Ra'anana none 43665
IL

00-18-29 (hex) Gatsometer
001829 (base 16) Gatsometer
Claes Tillyweg 2
Haarlem Noord-Holland 2031 CW
NL

00-18-38 (hex) PanAccess Communications,Inc.
001838 (base 16) PanAccess Communications,Inc.
Floor 8,Tower B,Global Trade Center,36 Beisanhuandonglu,Dongcheng District
Beijing 100013
CN

00-18-5F (hex) TAC Inc.
00185F (base 16) TAC Inc.
66 Nishiishigatsubocho Nishinanajyo Shimogyoku
Kyoto 600-8896
JP

00-18-64 (hex) Eaton Corporation
001864 (base 16) Eaton
Corporation
730, rue Commerciale
St-Jean-Chrysostome QC G6Z 2C5
CA

00-18-66 (hex) Leutron Vision
001866 (base 16) Leutron Vision
Industriestrasse 57
Glattbrugg ZH 8152

CH

00-18-60 (hex) SIM Technology Group Shanghai Simcom Ltd.,
001860 (base 16) SIM Technology Group Shanghai Simcom Ltd.,
SIM Technology building,
Shanghai 200233
CN

00-18-81 (hex) Buyang Electronics Industrial Co., Ltd
001881 (base 16) Buyang Electronics Industrial Co., Ltd
434-140, Oryu-Dong
Incheon 404-300
KR

00-18-97 (hex) JESS-LINK PRODUCTS Co., LTD
001897 (base 16) JESS-LINK PRODUCTS Co., LTD
9F, No. 176, Jian-Yi Rd., Chung Ho City
Taipei County 235
TW

00-18-9E (hex) OMNIKEY GmbH.
00189E (base 16) OMNIKEY GmbH.
Ferihumerstrasse 13
Linz Upperaustria 4040
AT

00-17-B5 (hex) Peerless Systems Corporation
0017B5 (base 16) Peerless Systems Corporation
2381 Rosecrans Avenue, Suite
400
El Segundo CA 90245
US

00-17-AF (hex) Enermet
0017AF (base 16) Enermet
Salvesenintie
Jyskä FIN-40420
FI

00-17-AA (hex) elab-experience inc.
0017AA (base 16) elab-experience inc.
104 Anotsupia
Tsu-shi mie prefecture 514-0131
JP

00-17-AE (hex) GAI-Tronics
0017AE (base 16) GAI-Tronics
Brunel Drive

Burton Upon Trent Staffordshire DE13 0BZ
GB

00-17-8B (hex) Teledyne Technologies Incorporated
00178B (base 16) Teledyne Technologies Incorporated
12333 West Olympic Blvd
Los Angeles CA 90064
US

00-17-80 (hex) Applied Biosystems B.V.
001780 (base 16) Applied Biosystems B.V.
Blk 33, Marsiling Industrial Estate Road 3,
739256
SG

00-17-F1 (hex) Renu Electronics Pvt Ltd
0017F1 (base 16) Renu Electronics Pvt Ltd
Sr No 2/6, Baner Road,
Pune Maharashtra 411045
IN

00-17-FF (hex) PLAYLINE Co.,Ltd.
0017FF (base 16) PLAYLINE Co.,Ltd.
1-4-21
MOTOAKASAKA
TOKYO 107-0051
JP

00-17-F6 (hex) Pyramid Meriden Inc.
0017F6 (base 16) Pyramid Meriden Inc.
45 Gracey Ave.
Meriden CT 06451
US

00-17-C5 (hex) SonicWALL
0017C5 (base 16) SonicWALL
1143 Borregas Ave
Sunnyvale CA 95126
US

00-17-BE (hex) Tratec Telecom B.V.
0017BE (base 16) Tratec Telecom B.V.
De Smalle Zijde 12
Veenendaal NL0-3903 LP
NL

00-17-C0 (hex) PureTech Systems, Inc.
0017C0 (base 16) PureTech Systems, Inc.

1950 W Rose Garden Lane
Phoenix AZ 85027
US

00-17-BA (hex) SEDO CO., LTD.
0017BA (base 16) SEDO CO., LTD.
302, KT Bldg, 1ANNEX, 35-1
Seoul 150-038
KR

00-17-6D (hex) CORE CORPORATION
00176D (base 16) CORE CORPORATION
1-22-3, Sangenjaya,
Setagaya-ku Tokyo-to 154-8552
JP

00-17-73 (hex) Laketune Technologies Co. Ltd
001773 (base 16) Laketune Technologies Co. Ltd
No. 38 Zijinghua Rd. Westlake District
Hangzhou
Zhejiang 310013
CN

00-17-D4 (hex) Monsoon Multimedia, Inc
0017D4 (base 16) Monsoon Multimedia, Inc
1730 South Amphlett blvd. Suite 101
San Mateo CA 94402
US

00-17-DF (hex) Cisco Systems, Inc
0017DF (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-17-A5 (hex) Ralink Technology Corp
0017A5 (base 16) Ralink Technology Corp
Suite 215, Bldg 53. 195-61 Sec.4, Chung Hsing Rd,
Chutung Hsinchu 310
TW

00-17-A8 (hex) EDM Corporation
0017A8 (base 16) EDM Corporation
3-5-2 Itabashi
Itabashi-ku Tokyo 173-0004
JP

00-17-A9 (hex) Sentivision

0017A9 (base 16) Sentivision
Marynarska 19a
Warsaw Mazowieckie 02-674
PL

00-17-6C (hex) Pivot3, Inc.
00176C (base 16) Pivot3, Inc.
6605 Cypresswood Drive, Ste 350
Spring TX 77379-7741
US

00-17-70 (hex) Arti Industrial Electronics Ltd.
001770 (base 16) Arti Industrial Electronics Ltd.
Ger-San
Sitesi, 657. Sokak
Ankara 06370
TR

00-17-F0 (hex) SZCOM Broadband Network Technology Co.,Ltd
0017F0 (base 16) SZCOM Broadband Network Technology Co.,Ltd
Room 602 No.8 Building ,Shenzhen Software Park,
Shenzhen Guangdong 518057
CN

00-17-46 (hex) Freedom9 Inc.
001746 (base 16) Freedom9 Inc.
4140B SLADEVIEW CRE.,
MISSISSAUGA, Ontario L5L6A1
CA

00-17-4D (hex) DYNAMIC NETWORK FACTORY, INC.
00174D (base 16) DYNAMIC NETWORK FACTORY, INC.
26250 EDEN LANDING RD.
HAYWARD CA 94545
US

00-17-44 (hex) Araneo Ltd.
001744 (base 16) Araneo Ltd.
103 Medinat Hayehudim
Herzliya 46733
IL

00-17-49 (hex) HYUNDAE YONG-O-SA CO.,LTD
001749 (base 16) HYUNDAE YONG-O-SA CO.,LTD
448-10, Hyuckjae B/D Seongnae, Kangdong-gu
Seoul 134-847
KR

00-17-43 (hex) Deck Srl
001743 (base 16) Deck Srl
Via Fabio Filzi 2
Milan 20124
IT

00-17-3D (hex) Neology
00173D
(base 16) Neology
13000 Gregg Street Suite A
Poway CA 92064
US

00-17-40 (hex) Bluberi Gaming Technologies Inc
001740 (base 16) Bluberi Gaming Technologies Inc
2125, rue Letendre Suite 420
Drummondville Quebec J2C 7G1
CA

00-17-32 (hex) Science-Technical Center RISSA
001732 (base 16) Science-Technical Center RISSA
st. Abramtsevskaja, h.9
Moscow 128572
RU

00-17-3A (hex) Cloudastructure Inc
00173A (base 16) Cloudastructure Inc
585 Broadway
Redwood City CA 94063
US

00-17-2F (hex) NeuLion Incorporated
00172F (base 16) NeuLion Incorporated
1600 Old Country Road
Plainview NY 11803
US

00-17-28 (hex) Selex Communications
001728 (base 16) Selex Communications
Via Pieragostini 80
Genova 16151
IT

00-17-22 (hex) Hanazeder Electronic GmbH
001722 (base 16) Hanazeder Electronic GmbH
J.M. Dimmelstr 10
Ried i. I. Oberösterreich 4910
AT

00-16-E1
(hex) SiliconStor, Inc.
0016E1 (base 16) SiliconStor, Inc.
48430 Lakeview Blvd.
Fremont CA 94538
US

00-16-E2 (hex) American Fibertek, Inc.
0016E2 (base 16) American Fibertek, Inc.
120 Belmont Drive
Somerset New Jersey 08873-1204
US

00-17-23 (hex) Summit Data Communications
001723 (base 16) Summit Data Communications
526 South Main Street
Akron Ohio 44311
US

00-17-1F (hex) IMV Corporation
00171F (base 16) IMV Corporation
2-6-10 Takejima
Osaka 555-0011
JP

00-17-10 (hex) Casa Systems Inc.
001710 (base 16) Casa Systems Inc.
10, New England Business Center Dr.
Andover MA 01810
US

00-17-13 (hex) Tiger NetCom
001713 (base 16) Tiger NetCom
J-15 Mudan Cun, Yijing Huayuan,
Shenzhen Guangdong 518003
CN

00-16-FD (hex) Jaty Electronics
0016FD (base 16) Jaty Electronics
Jaty Bldg 10F, 1659-5 Bongchun11-Dong
Seoul 151-832
KR

00-16-EF (hex) Koko
Fitness, Inc.
0016EF (base 16) Koko Fitness, Inc.
136 Longwater Drive

Norwell MA 02061
US

00-17-57 (hex) RIX TECHNOLOGY LIMITED
001757 (base 16) RIX TECHNOLOGY LIMITED
17 DAI WANG STREET
TAI PO NEW TERRITORIES
HK

00-16-7B (hex) Haver&Boecker
00167B (base 16) Haver&Boecker
Carl-Haver-Platz 3
Oelde NRW 59302
DE

00-16-79 (hex) eOn Communications
001679 (base 16) eOn Communications
4105 Royal Drive, Suite 100
Kennesaw Georgia 30144
US

00-16-78 (hex) SHENZHEN BAOAN GAOKE ELECTRONICS CO., LTD
001678 (base 16) SHENZHEN BAOAN GAOKE ELECTRONICS CO., LTD
GAOKE INDUSTRIAL PARK, NO.8 TANGKENG ROAD, SHIYAN TOWN
SHENZHEN GUANGDONG 518108
CN

00-16-74 (hex) EuroCB (Phils.), Inc.
001674 (base 16) EuroCB (Phils.), Inc.
SFB No.2
Lapulapu City Cebu 6015
PH

00-16-70 (hex) SKNET Corporation
001670 (base 16) SKNET Corporation
Fontana Shinyokohama
Yokohama
Kanagawa 222-0033
JP

00-16-8E (hex) Vimicro corporation
00168E (base 16) Vimicro corporation
15/F,Shining Tower,No.35,xueyuan
Beijing 100083
CN

00-16-89 (hex) Pilkor Electronics Co., Ltd
001689 (base 16) Pilkor Electronics Co., Ltd

381,Wonchun-Dong,Yeoungtong-Gu
Suwon Kyung Ki-Do 442-380
KR

00-16-8A (hex) id-Confirm Inc
00168A (base 16) id-Confirm Inc
1800 Boulder St
Denver CO 80211
US

00-16-86 (hex) Karl Storz Imaging
001686 (base 16) Karl Storz Imaging
175 Cremona Dr.
Goleta CA 93117
US

00-16-7E (hex) DIBOSS.CO.,LTD
00167E (base 16) DIBOSS.CO.,LTD
126-1, Gongdan-dong
Gumi Gyeongbuk 730-902
KR

00-16-BF (hex) PaloDEx Group Oy
0016BF (base 16) PaloDEx Group Oy
P.O. Box 64
Tuusula 04301
FI

00-16-B7 (hex) Seoul Commtech
0016B7 (base 16) Seoul Commtech
448-11, Seongnae 3dong. Gangdong gu,
Seoul 134033
KR

00-16-BB (hex) Law-Chain
Computer Technology Co Ltd
0016BB (base 16) Law-Chain Computer Technology Co Ltd
7F-2, 286-4, hsin ya road, chien chen district
Kaohsiung 80673
TW

00-16-B4 (hex) Private
0016B4 (base 16) Private

00-16-A7 (hex) AWETA G&P
0016A7 (base 16) AWETA G&P
Burg. Winkellaan 3
Nootdorp 2631 HG

NL

00-16-5D (hex) AirDefense, Inc.
00165D (base 16) AirDefense, Inc.
4800 North Point Pkwy
Alpharetta GA 30022
US

00-16-5B (hex) Grip Audio
00165B (base 16) Grip Audio
6345 W. Louise Drive
Glendale Arizona 85310-4243
US

00-16-A0 (hex) Auto-Maskin
0016A0 (base 16) Auto-Maskin
Sophie Radichs Vei 7
LILLESTROM Akershus 2003
NO

00-16-8D (hex) KORWIN CO., Ltd.
00168D (base 16) KORWIN CO., Ltd.
3rd Floor, Hana Bldg, 123-7 Nonhyun-dong
Seoul 135-010
KR

00-16-CD (hex) HIJI HIGH-TECH CO., LTD.
0016CD (base 16) HIJI HIGH-TECH CO., LTD.
Ohga 8133
Hayami
Oita 879-1504
JP

00-16-67 (hex) A-TEC Subsystem INC.
001667 (base 16) A-TEC Subsystem INC.
4F, No. 86, Chung-Hsing Road, Shijr City,
221
TW

00-16-3F (hex) CReTE SYSTEMS Inc.
00163F (base 16) CReTE SYSTEMS Inc.
7F,No.250,Sec.3,Pei Shen Rd.,Shen Keng Hsiang
Taipei County 22204
TW

00-16-3D (hex) Tsinghua Tongfang Legend Silicon Tech. Co., Ltd.
00163D (base 16) Tsinghua Tongfang Legend Silicon Tech. Co., Ltd.
26F TSINGHUA TONGFANG HI-TECH PLAZA

BEIJING 100083
CN

00-16-3A (hex) YVES TECHNOLOGY CO., LTD.
00163A (base 16) YVES TECHNOLOGY CO., LTD.
No.74, Fusing 2nd Rd.
Gueishan Taoyuan 33377
TW

00-16-38 (hex) TECOM Co., Ltd.
001638 (base 16) TECOM Co., Ltd.
23 R&D Road 2 Science Based Industrial Park
Hsin-Chu 300
TW

00-16-33 (hex) Oxford Diagnostics Ltd.
001633 (base 16) Oxford Diagnostics Ltd.
Sandybrae
Oxford Oxon. OX1 5HJ
GB

00-16-2D
(hex) STNet Co., Ltd.
00162D (base 16) STNet Co., Ltd.
Shin-wha Building 4F, 954-25
Anyang-si Kyungki-do 431-060
KR

00-16-27 (hex) embedded-logic DESIGN AND MORE GmbH
001627 (base 16) embedded-logic DESIGN AND MORE GmbH
Hansestrasse 24
Muenster NRW 48153
DE

00-15-FE (hex) SCHILLING ROBOTICS LLC
0015FE (base 16) SCHILLING ROBOTICS LLC
260 COUSTEAU PL
DAVIS CA 95618
US

00-15-EC (hex) Boca Devices LLC
0015EC (base 16) Boca Devices LLC
7647 Sierra Ter
Boca Raton Florida 33433
US

00-15-EF (hex) NEC TOKIN Corporation
0015EF (base 16) NEC TOKIN Corporation

1-1,Asahi-Cho 7-chome,Shiroishi,
Miyagi 989-0223
JP

00-16-0F (hex) BADGER METER INC
00160F (base 16) BADGER METER INC
4545 W BROWN DEER RD
MILWAUKEE WI 53223
US

00-16-04 (hex) Sigpro
001604 (base 16) Sigpro
655 W Evelyn ST
Mountain View CA 94041
US

00-15-FB (hex) setex schermuly
textile computer gmbh
0015FB (base 16) setex schermuly textile computer gmbh
Hauptstraße 25
Mengerskirchen Hessen 35794
DE

00-15-E4 (hex) Zimmer Elektromedizin
0015E4 (base 16) Zimmer Elektromedizin
Junkersstrasse 9
Neu-Ulm Bayern 89231
DE

00-15-D9 (hex) PKC Electronics Oy
0015D9 (base 16) PKC Electronics Oy
Pajuniityntie 43
RAAHE 92120
FI

00-16-4F (hex) World Ethnic Broadcastin Inc.
00164F (base 16) World Ethnic Broadcastin Inc.
50 California Street, Suite 1500
San Francisco California 94111
US

00-16-4A (hex) Vibration Technology Limited
00164A (base 16) Vibration Technology Limited
Vibtech House, Central Boulevard
Larbert Scotland FK5 4RU
GB

00-16-45 (hex) Power Distribution, Inc.

001645 (base 16) Power Distribution, Inc.
4200 Oakleys Ct.
Richmond VA 23223
US

00-16-22 (hex) BBH SYSTEMS GMBH
001622 (base 16) BBH SYSTEMS GMBH
Böttgerstraße
40
Weiden i.d.OPf. Bayern 92637
DE

00-16-13 (hex) LibreStream Technologies Inc.
001613 (base 16) LibreStream Technologies Inc.
895 Waverley Street
Winnipeg Manitoba R3T 5P4
CA

00-15-DD (hex) IP Control Systems Ltd.
0015DD (base 16) IP Control Systems Ltd.
Unit 15, Hi-Tech Village,
Boldon Tyne & Wear NE35 9PE
GB

00-16-0D (hex) Be Here Corporation
00160D (base 16) Be Here Corporation
39300 Civic Center Dr., Suite 180
Fremont CA 94538
US

00-15-CD (hex) Exartech International Corp.
0015CD (base 16) Exartech International Corp.
3/F, No.62, Lane 188, Ruei Guang Rd., Neihu
Taipei 114
TW

00-15-C9 (hex) Gumstix, Inc
0015C9 (base 16) Gumstix, Inc
3130 Alpine Road
Portola Valley CA 94028
US

00-15-BA (hex) iba AG
0015BA (base 16) iba AG
Koenigswarterstrasse 44
Fuerth Bavaria 90762
DE

00-15-BB (hex) SMA Solar Technology AG
0015BB (base 16) SMA
Solar Technology AG
Sonnenallee 1
Niestetal Hessen 34266
DE

00-15-BF (hex) technicob
0015BF (base 16) technicob
4 Rue Camille Saint-Saens
LANESTER Morbihan 56602
US

00-15-65 (hex) XIAMEN YEALINK NETWORK TECHNOLOGY CO.,LTD
001565 (base 16) XIAMEN YEALINK NETWORK TECHNOLOGY CO.,LTD
7F Hualian Electronic BLDG.580 Jiahe Road,Xiamen China
Xiamen Fujian 361006
CN

00-15-69 (hex) PECO II, Inc.
001569 (base 16) PECO II, Inc.
7060 Huntley Road
Columbus OH 43229
US

00-15-63 (hex) Cisco Systems, Inc
001563 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-15-64 (hex) BEHRINGER Spezielle Studiotechnik GmbH
001564 (base 16) BEHRINGER Spezielle Studiotechnik GmbH
Hanns-Martin-Schleyer-Str. 36-38
Willich
DE

00-15-61 (hex) JJPlus Corporation
001561 (base 16) JJPlus Corporation
678 Massachusetts Ave
Cambridge MA 02139
US

00-15-7B
(hex) Leuze electronic GmbH + Co. KG
00157B (base 16) Leuze electronic GmbH + Co. KG
In der Braike 1
Owen Baden-Württemberg 73277

DE

00-15-78 (hex) Audio / Video Innovations
001578 (base 16) Audio / Video Innovations
A3-3375 North Service Road
Burlington ON L7N 3G2
CA

00-15-71 (hex) Nolan Systems
001571 (base 16) Nolan Systems
1595 Cleo Springs Dr.
San Jose Ca. 95131
US

00-15-AE (hex) kyung il
0015AE (base 16) kyung il
woar rong-myn yougate-ri 101-2
paju-city gyeong gi 413-813
KR

00-15-BC (hex) Develco
0015BC (base 16) Develco
Olof Palmes Allé 40
Aarhus N 8200
DK

00-15-BD (hex) Group 4 Technology Ltd
0015BD (base 16) Group 4 Technology Ltd
Challenge House
Tewkesbury Gloucestershire GL20 8UQ
GB

00-15-B5 (hex) CI Network Corp.
0015B5 (base 16) CI Network Corp.
2F Daini Inoue Bldg
Tokyo 107-0052
JP

00-15-9C (hex) B-KYUNG
SYSTEM Co.,Ltd.
00159C (base 16) B-KYUNG SYSTEM Co.,Ltd.
#812,WOOLIM E-BIZ CENTER,170-5
GURO-DONG GURO-GU 152-847
KR

00-15-95 (hex) Quester Tangent Corporation
001595 (base 16) Quester Tangent Corporation
201 - 9865 West Saanich Road

Sidney BC V8L 5Y8
CA

00-15-58 (hex) FOXCONN
001558 (base 16) FOXCONN
No.2,2nd DongHuan Road,10th YouSong
ShenZhen GuangDong 518109
US

00-15-4F (hex) one RF Technology
00154F (base 16) one RF Technology
1360 Route des Dolines
Valbonne Sophia-Antipolis PACA 06560
FR

00-15-45 (hex) SEECODE Co., Ltd.
001545 (base 16) SEECODE Co., Ltd.
4th Floor, Amin Bldg., 110-1, Yangjaedong, Seochogu
Seoul 137-891
KR

00-15-87 (hex) Takenaka Seisakusho Co.,Ltd
001587 (base 16) Takenaka Seisakusho Co.,Ltd
178 HISHIE
HIGASHI-OSAKA CITY OSAKA 578-0984
JP

00-15-82 (hex) Pulse Eight Limited
001582 (base 16) Pulse Eight Limited
13 The
Metro Centre
Peterbourugh PE2 7UH
GB

00-14-C8 (hex) Contemporary Research Corp
0014C8 (base 16) Contemporary Research Corp
4355 Excel Pkwy
Addison TX 75001
US

00-14-C5 (hex) Alive Technologies Pty Ltd
0014C5 (base 16) Alive Technologies Pty Ltd
11 Technology Drive
Arundel Queensland 4214
AU

00-14-BC (hex) SYNECTIC TELECOM EXPORTS PVT. LTD.
0014BC (base 16) SYNECTIC TELECOM EXPORTS PVT. LTD.

196, 1st Main, 3rd Stage, 4th Block
BANGALORE 560079
IN

00-15-01 (hex) LexBox
001501 (base 16) LexBox
3, avenue Didier Daurat
TOULOUSE 31400
FR

00-14-EF (hex) TZero Technologies, Inc.
0014EF (base 16) TZero Technologies, Inc.
455 W. Maude Avenue
Sunnyvale CA 94085
US

00-15-1A (hex) Hunter Engineering Company
00151A (base 16) Hunter Engineering Company
11250 Hunter Drive
Bridgeton Missouri 63044
US

00-15-14 (hex) Hu Zhou NAVA Networks&Electronics
Ltd.
001514 (base 16) Hu Zhou NAVA Networks&Electronics Ltd.
3/F,No.328-4,Guang Yuan Rd.
Hu Zhou Zhe Jiang 313000
CN

00-15-16 (hex) URIEL SYSTEMS INC.
001516 (base 16) URIEL SYSTEMS INC.
#204 Byucksan Digitalvalley 1st, 212-16, Guro-dong, Guro-gu
Seoul 152-050
KR

00-15-43 (hex) Aberdeen Test Center
001543 (base 16) Aberdeen Test Center
400 Colleran Road
Aberdeen Proving Grounds MD 21005-5059
US

00-15-41 (hex) StrataLight Communications, Inc.
001541 (base 16) StrataLight Communications, Inc.
2105 S. Bascom Avenue
Campbell CA 95008
US

00-14-DA (hex) Huntleigh Healthcare

0014DA (base 16) Huntleigh Healthcare
Huntleigh Healthcare - Diagnostic Products Division
Cardiff CF24 5HN
GB

00-14-D5 (hex) Datang Telecom Technology CO. , LCD,Optical Communication Br
0014D5 (base 16) Datang Telecom Technology CO. , LCD,Optical Communication Br
3rd Floor,Building 8,Hi-Tech Incubation
Park,
ChengDu SiChuan 610041
CN

00-14-CA (hex) Key Radio Systems Limited
0014CA (base 16) Key Radio Systems Limited
Venus House
Aldermaston Berkshire RG7 8DA
GB

00-15-1F (hex) Multivision Intelligent Surveillance (Hong Kong) Ltd
00151F (base 16) Multivision Intelligent Surveillance (Hong Kong) Ltd
26/F, Aitken Vanson Centre,

HK

00-15-22 (hex) Dea Security
001522 (base 16) Dea Security
Via Togliatti
Santo Stefano Magra SP 19037
IT

00-14-EE (hex) Western Digital Technologies, Inc.
0014EE (base 16) Western Digital Technologies, Inc.
20511 Lake Forest Dr.
Lake Forest Ca 92630
US

00-15-38 (hex) RFID, Inc.
001538 (base 16) RFID, Inc.
14100 East Jewell Ave.
Aurora CO 80012
US

00-15-2E (hex) PacketHop, Inc.
00152E (base 16) PacketHop, Inc.
1301 Shoreway Road
Belmont California 94002
US

00-14-D3 (hex) SEPSA
0014D3 (base 16) SEPSA
calle
Albatros, 7 y 9
PINTO Madrid 28320
ES

00-14-D8 (hex) bio-logic SA
0014D8 (base 16) bio-logic SA
1, rue de l'Europe
CLAIX 38640
FR

00-14-5C (hex) Intronics B.V.
00145C (base 16) Intronics B.V.
Koolhovenstraat 1E
Barneveld Gelderland 3772 MT
NL

00-14-5A (hex) Westermo Neratec AG
00145A (base 16) Westermo Neratec AG
Rosswiesstrasse 29
CH-8608 Bubikon ZH
CH

00-14-5B (hex) SeekerNet Inc.
00145B (base 16) SeekerNet Inc.
300 Satellite Blvd.
Suwanee Georgia 30024
US

00-14-9C (hex) HF Company
00149C (base 16) HF Company
Node Park Touraine
BP1 Tauxigny 37310
FR

00-14-A3 (hex) Vitelec BV
0014A3 (base 16) Vitelec BV
kapittelweg 18
Breda NB NL 4827 HG
NL

00-14-97 (hex) ZHIYUAN Eletronics co.,ltd.
001497 (base 16) ZHIYUAN Eletronics co.,ltd.
2 Floor, NO.3 Building, Huangzhou Industrial Estate, Chebei Road,
Guangzhou Guangdong

510660
CN

00-14-2E (hex) 77 Elektronika Kft.
00142E (base 16) 77 Elektronika Kft.
Fehervari ut 98.
Budapest H-1163
HU

00-14-30 (hex) ViPowER, Inc
001430 (base 16) ViPowER, Inc
9F., No.205-3, Sec. 3, Beisin Rd
Sindian Taipei County 231
TW

00-14-32 (hex) Tarallax Wireless, Inc.
001432 (base 16) Tarallax Wireless, Inc.
10 West 100 South,
Salt Lake City UT 84101
US

00-14-99 (hex) Helicomm Inc
001499 (base 16) Helicomm Inc
1947 Camino Vida Roble
Carlsbad CA 92008
US

00-14-92 (hex) Liteon, Mobile Media Solution SBU
001492 (base 16) Liteon, Mobile Media Solution SBU
4F, 3, Lane 768, Sec. 4,
Taipei 115
TW

00-14-94 (hex) ESU AG
001494 (base 16) ESU AG
Lukasstrasse 29
St. Gallen 9008
CH

00-14-85 (hex) Giga-Byte
001485 (base 16) Giga-Byte
No.215,Nan-Ping Road,
Pin-Jen Taoyuan 326
TW

00-14-83 (hex) eXS Inc.
001483 (base 16) eXS

Inc.
1900 Alameda de las Pulgas
San Mateo CA 94403
US

00-14-B9 (hex) MSTAR SEMICONDUCTOR
0014B9 (base 16) MSTAR SEMICONDUCTOR
11-13 rue René Jacques
Issy les Moulineaux 92130
FR

00-14-BD (hex) incNETWORKS, Inc
0014BD (base 16) incNETWORKS, Inc
198 Brighton Ave
Long Branch NJ 07740
US

00-14-B7 (hex) AR Infotek Inc.
0014B7 (base 16) AR Infotek Inc.
9F, No.185, GangQian Road
Taipei 11494
TW

00-14-B5 (hex) PHYSIOMETRIX,INC
0014B5 (base 16) PHYSIOMETRIX,INC
101 BILLERICA AVE #5
N. BILLERICA MA 01862
US

00-14-4C (hex) General Meters Corp.
00144C (base 16) General Meters Corp.
1935 Dominion Way
Colorado Springs Colorado 80918
US

00-14-43 (hex) Consultronics Europe Ltd
001443 (base 16) Consultronics Europe Ltd
Electron Way
Chandlers Ford Hants SO53 4SE
GB

00-14-49 (hex) Sichuan Changhong Electric Ltd.
001449 (base 16) Sichuan
Changhong Electric Ltd.
No.35,East MianXin Road,MianYang,Sichaun,China.
MianYang SiChuan PRC 621000
CN

00-14-71 (hex) Eastern Asia Technology Limited
001471 (base 16) Eastern Asia Technology Limited
8F-1, No. 188, Baoqiao Rd., Xindian Dist.
New Taipei City 23145
TW

00-14-60 (hex) Kyocera Wireless Corp.
001460 (base 16) Kyocera Wireless Corp.
10300 Campus Point Drive
San Diego CA 92121
US

00-14-46 (hex) SuperVision Solutions LLC
001446 (base 16) SuperVision Solutions LLC
762 Industrial Dr.
Elmhurst IL 60126
US

00-14-40 (hex) ATOMIC Corporation
001440 (base 16) ATOMIC Corporation
MAMPO BLDG
TAITO-KU TOKYO 111-0053
JP

00-14-1F (hex) SunKwang Electronics Co., Ltd
00141F (base 16) SunKwang Electronics Co., Ltd
#365(Techno-park, 301 dong, 901 ho,) Samjung-dong, Ohjung-ku,
Bucheon-shi Kyunggi-do 421-809
KR

00-14-1D (hex) KEBA Industrial Automation Germany GmbH
00141D
(base 16) KEBA Industrial Automation Germany GmbH
Gewerbestrasse 5-9
Lahnau Hessen 35633
DE

00-14-12 (hex) S-TEC electronics AG
001412 (base 16) S-TEC electronics AG
Industriestrasse 49
Zug 6300
CH

00-14-11 (hex) Deutschmann Automation GmbH & Co. KG
001411 (base 16) Deutschmann Automation GmbH & Co. KG
Carl-Zeiss-Str. 8
Bad Camberg D - 65520
DE

00-13-F5 (hex) Akimbi Systems
0013F5 (base 16) Akimbi Systems
1400 Fashion Island Blvd
San Mateo CA 94404
US

00-13-F1 (hex) AMOD Technology Co., Ltd.
0013F1 (base 16) AMOD Technology Co., Ltd.
2F., No. 16, Prosperity Road II
Hsinchu, 30078
TW

00-13-E7 (hex) Halcro
0013E7 (base 16) Halcro
Suite 1, Level 1
Wayville South Australia 5034
AU

00-13-EA (hex) Kamstrup A/S
0013EA (base 16) Kamstrup A/S
Industrivej 28
Stilling 8660
DK

00-13-E1 (hex) Iprobe AB
0013E1 (base 16) Iprobe
AB
Finlandsgatan 12
Kista SE-16474
SE

00-14-05 (hex) OpenIB, Inc.
001405 (base 16) OpenIB, Inc.
OpenFabrics, Inc., c/o QLogic Corporation
Mountain View CA 94043-4655
US

00-45-01 (hex) Midmark RTLS
004501 (base 16) Midmark RTLS
2600 Miller Creek Road
Traverse City MI 49684
US

00-13-C1 (hex) Asoka USA Corporation
0013C1 (base 16) Asoka USA Corporation
558 Pilgrim Drive
Foster City CA 94404

US

00-13-C0 (hex) Trix Tecnologia Ltda.
0013C0 (base 16) Trix Tecnologia Ltda.
Rua da Paz, 1957 - Chácara Santo Antônio
São Paulo 04713-002
BR

00-13-B3 (hex) Ecom Communications Technology Co., Ltd.
0013B3 (base 16) Ecom Communications Technology Co., Ltd.
Floor 7, Machinery Industry Building, No.22,
Beijing
CN

00-13-E3 (hex) CoVi Technologies, Inc.
0013E3 (base 16) CoVi Technologies, Inc.
6300 Bridgepoint Parkway
Austin Texas 78730
US

00-13-E4
(hex) YANGJAE SYSTEMS CORP.
0013E4 (base 16) YANGJAE SYSTEMS CORP.
1202. HANSHIN IT TOWER Guro-3Dong,
Seoul 152-848
KR

00-13-D9 (hex) Matrix Product Development, Inc.
0013D9 (base 16) Matrix Product Development, Inc.
13 North Bird Street
Sun Prairie WI 53590
US

00-14-03 (hex) Renasis, LLC
001403 (base 16) Renasis, LLC
1530 N. State St.
Lehi UT 84043
US

00-13-CC (hex) Tall Maple Systems
0013CC (base 16) Tall Maple Systems
85 Saratoga Ave Suite 139
Santa Clara CA 95051
US

00-13-B7 (hex) Scantech ID
0013B7 (base 16) Scantech ID
Vanadiumweg 22

Amersfoort Utrecht 3812 PZ
NL

00-13-6C (hex) TomTom
00136C (base 16) TomTom
Oosterdoksstraat 114
1011 DK Amsterdam
NL

00-13-64 (hex) Paradigm Technology Inc..
001364 (base 16) Paradigm Technology Inc..
3F, No. 285, Sec.2, Ti-Ding Blvd Nei-Hu,
Taipei 114
TW

00-13-6B (hex) E-TEC
00136B
(base 16) E-TEC
2-17-14-503 Hakataekimae
Fukuoka Fukuokaken 812-0011
JP

00-13-55 (hex) TOMEN Cyber-business Solutions, Inc.
001355 (base 16) TOMEN Cyber-business Solutions, Inc.
2-11-19 Kohnan
TOKYO 108-0075
JP

00-13-57 (hex) Soyal Technology Co., Ltd.
001357 (base 16) Soyal Technology Co., Ltd.
10F, No. 27, Lane 169, Kangning St., Shijr City,
Taipei 221
TW

00-13-89 (hex) Redes de Telefonía Móvil S.A.
001389 (base 16) Redes de Telefonía Móvil S.A.
C/Puerto de la Morcuera 14 B4
Leganés Madrid 28918
ES

00-13-8C (hex) Kumyoung.Co.Ltd
00138C (base 16) Kumyoung.Co.Ltd
Seoul KY building, 40-17 Hangang Ro, 3Ga, Youngsan-Gu
Seoul 140-880
KR

00-13-8E (hex) FOAB Elektronik AB
00138E (base 16) FOAB Elektronik AB

Sankt Jorgens Vag 8
Gothenburg 422 49
SE

00-13-45 (hex) Eaton Corporation
001345 (base 16) Eaton Corporation
4201 North 27th Street
Milwaukee
Wisconsin 53216
US

00-13-47 (hex) Red Lion Controls, LP
001347 (base 16) Red Lion Controls, LP
20 Willow Springs Circle
York NY 17402
US

00-13-43 (hex) Matsushita Electronic Components (Europe) GmbH
001343 (base 16) Matsushita Electronic Components (Europe) GmbH
Zeppelinstraße 19
Lueneburg Niedersachsen 21337
DE

00-13-3E (hex) MetaSwitch
00133E (base 16) MetaSwitch
1411 Harbor Bay Parkway
Alameda CA 94502
US

00-13-2E (hex) ITian Coporation
00132E (base 16) ITian Coporation
4F Youngho Bd.1605-1 Seocho-dong
Seoul 137-070
KR

00-13-39 (hex) CCV Deutschland GmbH
001339 (base 16) CCV Deutschland GmbH
Gewerbering 1
Au i. d. Hallertau Bayern 84072
DE

00-13-60 (hex) Cisco Systems, Inc
001360 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-13-5D (hex) NTTPC Communications, Inc.

00135D (base 16) NTTPC Communications,
Inc.
3-25 Kanda Jinbo-cho
Chiyoda-ku Tokyo 101-0051
JP

00-13-52 (hex) Naztec, Inc.
001352 (base 16) Naztec, Inc.
820 Park Two Dr.
Sugar Land TX 77478
US

00-13-A1 (hex) Crow Electronic Engeneering
0013A1 (base 16) Crow Electronic Engeneering
12 Kinneret st.
Airport City
IL

00-13-9C (hex) Exavera Technologies, Inc.
00139C (base 16) Exavera Technologies, Inc.
195 New Hampshire Avenue
Portsmouth NH 03801
US

00-13-94 (hex) Infohand Co.,Ltd
001394 (base 16) Infohand Co.,Ltd
Kranz-Techno #1207, 5442-1, Sangdaewon-dong, Jungwon-gu
Seongnam-si Gyeonggi-do 462-819
KR

00-13-76 (hex) Tabor Electronics Ltd.
001376 (base 16) Tabor Electronics Ltd.
9 Hatatsia St.
Tel Hanan 20302
IL

00-13-80 (hex) Cisco Systems, Inc
001380 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-13-85 (hex) Add-On Technology Co., LTD.
001385
(base 16) Add-On Technology Co., LTD.
1F, No.11, Lane 206, Da-An Road Sec. 1,
Taipei 106
TW

00-13-1B (hex) BeCell Innovations Corp.
00131B (base 16) BeCell Innovations Corp.
12F-9, No. 79, Shin-Tai 5th Rd Sec 1,
Shih-chih, Taipei 221
TW

00-13-0B (hex) Mextal B.V.
00130B (base 16) Mextal B.V.
De Tienden 48
Nuenen Noord Brabant 5674TB
NL

00-13-2B (hex) Phoenix Digital
00132B (base 16) Phoenix Digital
7650 East Evans Rd. Bldg. A
Scottsdale Az 85260
US

00-12-EC (hex) Movacolor b.v.
0012EC (base 16) Movacolor b.v.
Koperslagersstraat 31
Sneek Friesland 8601 WL
NL

00-12-EB (hex) PDH Solutions, LLC
0012EB (base 16) PDH Solutions, LLC
34154 Bennett Rd
Warren OR 97053
US

00-13-0D (hex) GALILEO AVIONICA
00130D (base 16) GALILEO AVIONICA
VIALE EUROPA
NERVIANO MILANO 20014
IT

00-13-08 (hex) Nuvera Fuel Cells
001308 (base 16) Nuvera Fuel
Cells
129 Concord Road, #1
Billerica MA 01821
US

00-13-07 (hex) Paravirtual Corporation
001307 (base 16) Paravirtual Corporation
2953 Bunker Hill Lane
Santa Clara CA 95054

US

00-12-FC (hex) PLANET System Co.,LTD
0012FC (base 16) PLANET System Co.,LTD
4th Floor, Daehan B/D, 873-29,
Seoul 137-064
KR

00-12-C2 (hex) Apex Electronics Factory
0012C2 (base 16) Apex Electronics Factory
No.3 Industrial Zone, No.4 Block,
Shen Zhen Guang Dong 518103
CN

00-12-BE (hex) Astek Corporation
0012BE (base 16) Astek Corporation
5055 Corporate Plaza Drive
Colorado Springs Colorado 80919
US

00-12-E1 (hex) Alliant Networks, Inc
0012E1 (base 16) Alliant Networks, Inc
1259 Birchwood Dr.
Sunnyvale CA 94089
US

00-12-DF (hex) Novomatic AG
0012DF (base 16) Novomatic AG
Wiener Strasse 158
Gumpoldskirchen Niederösterreich A-2352
AT

00-12-E2 (hex) ALAXALA Networks
Corporation
0012E2 (base 16) ALAXALA Networks Corporation
890 Kashimada, Saiwai-ku
Kawasaki-shi Kanagawa-ken 212-0058
JP

00-12-FE (hex) Lenovo Mobile Communication Technology Ltd.
0012FE (base 16) Lenovo Mobile Communication Technology Ltd.
Xiamen Overseas Chinese Electronic Science Park,Huoju High Technology Development Zone
XIA MEN FU JIAN 361009
CN

00-12-F7 (hex) Xiamen Xinglian Electronics Co., Ltd.
0012F7 (base 16) Xiamen Xinglian Electronics Co., Ltd.
Xinglian Electronics (Xingtel) Building,Chuangxin Road,

Xiamen Fujian 361006
CN

00-12-C5 (hex) V-Show Technology (China) Co.,Ltd
0012C5 (base 16) V-Show Technology (China) Co.,Ltd
7F, Tengda Plaza, No.168
HaiDian District, Beijing 100089
CN

00-12-A0 (hex) NeoMeridian Sdn Bhd
0012A0 (base 16) NeoMeridian Sdn Bhd
3A-1, Perdana The Place
Bandar Damansara Perdana Selangor 47820
MY

00-12-AD (hex) VIVAVIS AG
0012AD
(base 16) VIVAVIS AG
Nobelstraße, 18
Ettlingen Baden-Württemberg 76275
DE

00-12-D4 (hex) Princeton Technology, Ltd
0012D4 (base 16) Princeton Technology, Ltd
K.A.I. Bldg. 3F
Chiyodaku Tokyo 101-0032
JP

00-12-D9 (hex) Cisco Systems, Inc
0012D9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-12-86 (hex) ENDEVCO CORP
001286 (base 16) ENDEVCO CORP
30700 RANCHO VIEJO ROAD
SAN JUAN CAPISTRANO CA 92675
US

00-12-74 (hex) NIT lab
001274 (base 16) NIT lab
Skoriny str., 65-3
Minsk Minskaya obl. 220013
BY

00-12-70 (hex) NGES Denro Systems
001270 (base 16) NGES Denro Systems

7055 Troy Hill Dr
Elkridge MD 21075
US

00-12-6E (hex) Seidel Elektronik GmbH Nfg.KG
00126E (base 16) Seidel Elektronik GmbH Nfg.KG
Frauentalerstrasse 100
Deutschlandsberg Steiermark 8530
AT

00-12-6F (hex) Rayson Technology Co., Ltd.
00126F (base
16) Rayson Technology Co., Ltd.
1F No.9 R&D Rd.II, Science-Based Industrial Park
Hsin-Chu 300
TW

00-12-2D (hex) SiNett Corporation
00122D (base 16) SiNett Corporation
640 W. California Avenue
Sunnyvale CA 94086
US

00-12-2C (hex) Soenen Controls N.V.
00122C (base 16) Soenen Controls N.V.
Wijnedalestraat 190
Roeselare W-VL 8800
BE

00-12-63 (hex) Data Voice Technologies GmbH
001263 (base 16) Data Voice Technologies GmbH
Stockholmer Allee 32b
Dortmund NRW D-44269
DE

00-12-5C (hex) Green Hills Software, Inc.
00125C (base 16) Green Hills Software, Inc.
30 West Sola Street
Santa Barbara CA 93101
US

00-12-5F (hex) AWIND Inc.
00125F (base 16) AWIND Inc.
17F., No. 886-5, Jungjeng Rd
Taipei County 235
TW

00-12-55 (hex) NetEffect Incorporated

001255 (base 16) NetEffect Incorporated
9211 Waterford Centre Blvd
Austin Texas 78758
US

00-12-4C
(hex) BBWM Corporation
00124C (base 16) BBWM Corporation
6F, No. 578, Rui Guang Road, Nei Hu
Taipei 114
TW

00-12-44 (hex) Cisco Systems, Inc
001244 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-12-53 (hex) AudioDev AB
001253 (base 16) AudioDev AB
Kabingatan 9
Malmö SE-212 39
SE

00-12-2B (hex) Virbiage Pty Ltd
00122B (base 16) Virbiage Pty Ltd
Level 4
Melbourne Victoria 3000
AU

00-12-32 (hex) LeWiz Communications Inc.
001232 (base 16) LeWiz Communications Inc.
1376 N. 4th St. #300
San Jose CA 95112
US

00-11-DE (hex) EURILOGIC
0011DE (base 16) EURILOGIC
Centrale Parc Bât 7
Chatenay Malabry 92298
FR

00-11-DF (hex) Current Energy
0011DF (base 16) Current Energy
5440 Harvest Hill, Ste 100
Dallas TX 75230
US

00-11-D7 (hex) eWerks Inc
0011D7 (base 16) eWerks Inc
420-2166 Mountain Grove Ave
Burlington
Ontario L7P4X4
CA

00-12-1A (hex) Techno Soft Systemnics Inc.
00121A (base 16) Techno Soft Systemnics Inc.
2-5-17, Ebisu-nishi, Naniwa-ku,
Osaka 556-0003
JP

00-12-1B (hex) Sound Devices, LLC
00121B (base 16) Sound Devices, LLC
300 Wengel Drive
Reedsburg WI 53959
US

00-12-04 (hex) u10 Networks, Inc.
001204 (base 16) u10 Networks, Inc.
2-2-14 Kakinokizaka
Meguro Tokyo 152-0022
JP

00-12-0A (hex) Emerson Climate Technologies GmbH
00120A (base 16) Emerson Climate Technologies GmbH
Heerstrasse 111
Waiblingen BW 71332
DE

00-12-08 (hex) Gantner Instruments GmbH
001208 (base 16) Gantner Instruments GmbH
Montafonerstrasse 8
Schruns Vorarlberg 6780
AT

00-11-C8 (hex) Powercom Co., Ltd.
0011C8 (base 16) Powercom Co., Ltd.
8F, No. 246, Lien Chen Rd.
Chung Ho Taipei 235
TW

00-11-B4 (hex) Westermo Network Technologies AB
0011B4 (base 16) Westermo
Network Technologies AB
Stora Sundby
Sweden SE-640 40

SE

00-11-B8 (hex) Liebherr - Elektronik GmbH
0011B8 (base 16) Liebherr - Elektronik GmbH
Peter - Dornier - Strasse 11
Lindau (Bodensee) Bavaria 88131
DE

00-11-E5 (hex) KCodes Corporation
0011E5 (base 16) KCodes Corporation
7F., No. 252, Sec. 1, Neihu Rd.,
Neihu Dist. Taipei City 114
TW

00-11-EE (hex) Estari, Inc.
0011EE (base 16) Estari, Inc.
1800 Paxton St
Harrisburg PA 17104
US

00-11-C1 (hex) 4P MOBILE DATA PROCESSING
0011C1 (base 16) 4P MOBILE DATA PROCESSING
VIALE REGIONE VENETO 26
PADOVA PD 35127
IT

00-11-B2 (hex) 2001 Technology Inc.
0011B2 (base 16) 2001 Technology Inc.
7F-10, 79 Hsin Tai 5th. Rd. Sec.1
Hsi Chih Taipei County 221
TW

00-11-AF (hex) Medialink-i,Inc
0011AF (base 16) Medialink-i,Inc
1-9-10 Hamamatsu-Cho
Minato-Ku Tokyo 105-0013
JP

00-12-01 (hex) Cisco
Systems, Inc
001201 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-12-00 (hex) Cisco Systems, Inc
001200 (base 16) Cisco Systems, Inc
80 West Tasman Drive

San Jose CA 94568
US

00-11-47 (hex) Secom-Industry co.LTD.
001147 (base 16) Secom-Industry co.LTD.
Fukuoka Kuramoto Ichihonki 3-3
Shiroishi Miyagi 989-0295
JP

00-11-4A (hex) KAYABA INDUSTRY Co,.Ltd.
00114A (base 16) KAYABA INDUSTRY Co,.Ltd.
World Trade Center Bldg., 4-1
Minato-ku, Tokyo Meto. 105-6111
JP

00-11-42 (hex) e-SMARTCOM INC.
001142 (base 16) e-SMARTCOM INC.
3F, 216, Imok-Dong
Suwon Kyoungki-Do 440-310
KR

00-11-39 (hex) STOEBER ANTRIEBSTECHNIK GmbH + Co. KG.
001139 (base 16) STOEBER ANTRIEBSTECHNIK GmbH + Co. KG.
Kieselbronner Str. 12
Pforzheim 75177
DE

00-11-3E (hex) JL Corporation
00113E (base 16) JL Corporation
4-4-17 SUGE
KAWASAKI-CITY KANAGAWA-KEN
214-0001
JP

00-11-38 (hex) TAISHIN CO., LTD.
001138 (base 16) TAISHIN CO., LTD.
200-7 Nakano
Nakano Nagano 383-0013
JP

00-11-36 (hex) Goodrich Sensor Systems
001136 (base 16) Goodrich Sensor Systems
14300 Judicial Road
Burnsville Minnesota 55306-4898
US

00-11-32 (hex) Synology Incorporated
001132 (base 16) Synology Incorporated

9F., No.1, Yuandong Rd., Banqiao Dist.,
New Taipei City 220632
TW

00-11-9D (hex) Diginfo Technology Corporation
00119D (base 16) Diginfo Technology Corporation
10Fl., No.82, Fu Hsing North Road
Taipei 106
TW

00-11-9A (hex) Alkeria srl
00119A (base 16) Alkeria srl
25 Via Giuntini
Navacchio (PI) I-56023
IT

00-11-9C (hex) EP&T Energy
00119C (base 16) EP&T Energy
358 Eastern Valley Way
Sydney NSW 2067
AU

00-11-8C (hex) Missouri Department of Transportation
00118C (base 16) Missouri Department of Transportation
P.O.
Box 270
Jefferson City Missouri 65102
US

00-11-93 (hex) Cisco Systems, Inc
001193 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-11-8E (hex) Halytech Mace
00118E (base 16) Halytech Mace
Unit 11, 22 Lexington Drive
Baulkham Hills NSW 2153
AU

00-11-86 (hex) Prime Systems, Inc.
001186 (base 16) Prime Systems, Inc.
16267-333
Suwa-gun Hara-mura Nagano 391-0100
JP

00-11-83 (hex) Datalogic ADC, Inc.

001183 (base 16) Datalogic ADC, Inc.
959 Terry St
Eugene OR 97402
US

00-11-7F (hex) Neotune Information Technology Corporation,.LTD
00117F (base 16) Neotune Information Technology Corporation,.LTD
1703# No.737 North of Caoxi Rd.
Shanghai 200030
CN

00-11-7D (hex) ZMD America, Inc.
00117D (base 16) ZMD America, Inc.
15373 Innovation Drive
San Dieo CA 92128
US

00-11-7C (hex) e-zy.net
00117C (base 16) e-zy.net
Smirnis
14
Veria Imathia 59100
GR

00-11-78 (hex) Chiron Technology Ltd
001178 (base 16) Chiron Technology Ltd
Wyvols Court
Reading Berkshire RG7 1WY
GB

00-11-4D (hex) Atsumi Electric Co.,LTD.
00114D (base 16) Atsumi Electric Co.,LTD.
4-2-2 Shin-Miyakoda, Kita-ku
Hamamatsu Shizuoka 431-2103
JP

00-11-4B (hex) Francotyp-Postalia GmbH
00114B (base 16) Francotyp-Postalia GmbH
Triftweg 21-26
Birkenwerder Brandenburg 16547
DE

00-11-6A (hex) Domo Ltd
00116A (base 16) Domo Ltd
Wessex House
Eastleigh Hampshire SO50 9FD
GB

00-11-29 (hex) Paradise Datacom Ltd.
001129 (base 16) Paradise Datacom Ltd.
1 Wheaton Road
Witham Essex UK CM8 1UJ
GB

00-11-30 (hex) Allied Telesis (Hong Kong) Ltd.
001130 (base 16) Allied Telesis (Hong Kong) Ltd.
Room F, 3/F, Yeung Yiu Chong (no. 8) Industrial building,

HK

00-11-5E (hex) ProMinent Dosiertechnik GmbH
00115E
(base 16) ProMinent Dosiertechnik GmbH
Im Schumachergewann 5-11
Heidelberg BW 69123
DE

00-11-57 (hex) Oki Electric Industry Co., Ltd.
001157 (base 16) Oki Electric Industry Co., Ltd.
1-7-12 Toranomon
Tokyo 105-8460
JP

00-11-18 (hex) BLX IC Design Corp., Ltd.
001118 (base 16) BLX IC Design Corp., Ltd.
Rm 1006, Quantum Plaza
Beijing 100083
CN

00-11-07 (hex) RGB Networks Inc.
001107 (base 16) RGB Networks Inc.
2929 Campus Drive
San Mateo CA 94403
US

00-11-08 (hex) Orbital Data Corporation
001108 (base 16) Orbital Data Corporation
1900 S. Norfolk St. Ste 320
San Mateo CA 94403
US

00-11-0C (hex) Atmark Techno, Inc.
00110C (base 16) Atmark Techno, Inc.
2F SD BLDG, 2-2-3-14 Atsubetsu-nishi, Atsubetsu-ku
Sapporo Hokkaido 004-0062
JP

00-0F-D9 (hex) FlexDSL Telecommunications AG
000FD9 (base 16) FlexDSL Telecommunications AG
Haus zum Engel
Altendorf
Schwyz 8852
CH

00-0F-D0 (hex) ASTRI
000FD0 (base 16) ASTRI
18/F Tower 6, Gateway, 9 Canton Rd

HK

00-0F-AE (hex) E2O Communications
000FAE (base 16) E2O Communications
52 Serangoon North Ave 4
555853
SG

00-0F-B1 (hex) Cognio Inc.
000FB1 (base 16) Cognio Inc.
101 Orchard Ridge Drive
Gaithersburg MD 20878
US

00-0F-EC (hex) ARKUS Inc.
000FEC (base 16) ARKUS Inc.
3-8 Chuo-cho
3-8 Noda, Kitaa-Ku 700-0971
JP

00-0F-ED (hex) Anam Electronics Co., Ltd
000FED (base 16) Anam Electronics Co., Ltd
645 Sungkok-dong
Ansan-city Kyungki-do 425-834
KR

00-0F-DD (hex) SORDIN AB
000FDD (base 16) SORDIN AB
Rorlaggarvagen 8
Varnamo Smaland S-331 34
SE

00-11-20 (hex) Cisco Systems, Inc
001120 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568

US

00-0F-A7 (hex) Raptor Networks Technology
000FA7 (base
16) Raptor Networks Technology
65 Enterprise Road
Aliso Viejo CA 92656
US

00-0F-9E (hex) Murrelektronik GmbH
000F9E (base 16) Murrelektronik GmbH
Falkenstraße 3
Oppenweiler Baden-Württemberg 71570
DE

00-0F-CA (hex) A-JIN TECHLINE CO, LTD
000FCA (base 16) A-JIN TECHLINE CO, LTD
327-35
Kumchun-Ku Seoul 153-802
KR

00-0F-C3 (hex) PalmPalm Technology, Inc.
000FC3 (base 16) PalmPalm Technology, Inc.
Samsung-dong 156-3, Gangnam-gu
Seoul 135-091
KR

00-11-03 (hex) kawamura electric inc.
001103 (base 16) kawamura electric inc.
3-86 akatsuki-cho
seto aichi 489-0071
JP

00-0F-F0 (hex) Sunray Co. Ltd.
000FF0 (base 16) Sunray Co. Ltd.
Osawa2-5-5 Mitaka
Tokyo 181-0015
JP

00-0F-2B (hex) GREENBELL SYSTEMS
000F2B (base 16) GREENBELL SYSTEMS
2TH Floor, Doonam Bldg, 236-11 Nonhyun-Dong, Kangnam-Ku
Seoul 135-010
KR

00-0F-28 (hex) Itronix Corporation
000F28

(base 16) Itronix Corporation
South 801 Stevens Street
Spokane WA 99204
US

00-0F-23 (hex) Cisco Systems, Inc
000F23 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0F-88 (hex) AMETEK, Inc.
000F88 (base 16) AMETEK, Inc.
150 Freeport Road
Pittsburgh PA 15238
US

00-0F-7E (hex) Ablerex Electronics Co., LTD
000F7E (base 16) Ablerex Electronics Co., LTD
1F, No.3 Lane 7, Paokao Rd.
Hsintien Taipei Hsien 23114
TW

00-0F-5C (hex) Day One Digital Media Limited
000F5C (base 16) Day One Digital Media Limited
197 Archers Rd
Auckland North Island 1310
NZ

00-0F-52 (hex) YORK Refrigeration, Marine & Controls
000F52 (base 16) YORK Refrigeration, Marine & Controls
Jens Juulsvej 28
Viby J DK 8362
DK

00-0F-39 (hex) IRIS SENSORS
000F39 (base 16) IRIS SENSORS
ZA les Ufernets
TOULAUD Ardeche F07130
FR

00-0F-3E (hex) CardioNet,
Inc
000F3E (base 16) CardioNet, Inc
1010 Second Avenue
San Diego CA 92101
US

00-0F-3F (hex) Big Bear Networks
000F3F (base 16) Big Bear Networks
345 Potrero Ave
Sunny Vale California 94085
US

00-0F-35 (hex) Cisco Systems, Inc
000F35 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0F-36 (hex) Accurate Techhnologies, Inc.
000F36 (base 16) Accurate Techhnologies, Inc.
47199 Cartier Dr.
Wixom Michigan 48393
US

00-0F-93 (hex) Landis+Gyr Ltd.
000F93 (base 16) Landis+Gyr Ltd.
Feldstrasse 1
Zug CH-6301
CH

00-0F-94 (hex) Genexis BV
000F94 (base 16) Genexis BV
Lodewijktraat 1A
5652 AC Eindhoven
SE

00-0F-8F (hex) Cisco Systems, Inc
000F8F (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0F-4C (hex) Elextech INC
000F4C (base 16) Elextech INC
554-2, Gasan-Dong, Gumcheon-Gu
Seoul
153-023
KR

00-0F-42 (hex) Xalyo Systems
000F42 (base 16) Xalyo Systems
Grenier 9
Commugny VD 1291
CH

00-0F-83 (hex) Brainium Technologies Inc.
000F83 (base 16) Brainium Technologies Inc.
#201 - 11491 Kingston Street
Maple Ridge BC V2X 0Y6
CA

00-0F-84 (hex) Astute Networks, Inc.
000F84 (base 16) Astute Networks, Inc.
15015 Ave of Science
San Diego CA 92128
US

00-0F-7D (hex) Xirrus
000F7D (base 16) Xirrus
310 North Westlake Blvd.
Westlake Village CA 91362
US

00-0F-76 (hex) Digital Keystone, Inc.
000F76 (base 16) Digital Keystone, Inc.
1975 El Camino Real
Mountain View CA 94040
US

00-0F-79 (hex) Bluetooth Interest Group Inc.
000F79 (base 16) Bluetooth Interest Group Inc.
4F, No. 9, Alley 2, Lane 35, Ji-Hu Rd.
Taipei 114
TW

00-0F-6C (hex) ADDI-DATA GmbH
000F6C (base 16) ADDI-DATA GmbH
Airport Boulevard B210
RHEINMUENSTER
BW 77836
DE

00-0F-22 (hex) Helius, Inc.
000F22 (base 16) Helius, Inc.
333 South 520 West
Lindon UT 84042
US

00-0F-24 (hex) Cisco Systems, Inc
000F24 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568

US

00-0F-17 (hex) Insta Elektro GmbH
000F17 (base 16) Insta Elektro GmbH
Hohe Steinert 10
Luedenscheid NRW 58509
DE

00-0F-1E (hex) Chengdu KT Electric Co.of High & New Technology
000F1E (base 16) Chengdu KT Electric Co.of High & New Technology
No.2 Gaopeng Dong Road,High & New Development Zone
Chengdu Sichuan 610041
CN

00-0F-15 (hex) Icotera A/S
000F15 (base 16) Icotera A/S
Vibeholms Allé 16
Brøndby 2605
DK

00-0E-A5 (hex) BLIP Systems
000EA5 (base 16) BLIP Systems
Haekken 2
Vodskov Vester Hassing 9310
DK

00-0E-A0 (hex) NetKlass Technology Inc.
000EA0 (base 16) NetKlass Technology Inc.
2F-1, No.30,Tai Yuen Street,
Chupei
City, Hsinchu, 302
TW

00-0E-E4 (hex) BOE TECHNOLOGY GROUP CO.,LTD
000EE4 (base 16) BOE TECHNOLOGY GROUP CO.,LTD
No.10 Jiuxianqiao Road,Chaoyang District,Beijing,PRC
Beijing 100016
CN

00-0E-DE (hex) REMEC, Inc.
000EDE (base 16) REMEC, Inc.
2144 Franklin Drive NE
Palm Bay Florida 32905-4021
US

00-0E-CE (hex) S.I.T.T.I. S.p.A.
000ECE (base 16) S.I.T.T.I. S.p.A.
Via Cadorna 69

Vimodrone Milan I-20090
IT

00-0E-D4 (hex) CRESITT INDUSTRIE
000ED4 (base 16) CRESITT INDUSTRIE
12 rue de Blois
Orleans BP 6744 45067 cedex
FR

00-0E-D6 (hex) Cisco Systems, Inc
000ED6 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0E-D8 (hex) Positron Access Solutions Corp
000ED8 (base 16) Positron Access Solutions Corp
5101 Buchan Street
Montreal, Quebec H4P 2R9
CA

00-0E-D1 (hex) Osaka Micro Computer.
000ED1 (base 16) Osaka
Micro Computer.
Isonokamicyo 3-11-7
Kishiwada Osaka 5960001
JP

00-0F-04 (hex) cim-usa inc
000F04 (base 16) cim-usa inc
10813 nw 30th street
miami florida 33172
US

00-0E-FC (hex) JTAG Technologies B.V.
000EFC (base 16) JTAG Technologies B.V.
Boschdijk 50
Eindhoven NB 5612 AN
NL

00-0E-FE (hex) EndRun Technologies LLC
000EFE (base 16) EndRun Technologies LLC
2270 Northpoint Parkway
Santa Rosa CA 95407
US

00-0E-B8 (hex) Iiga co.,Ltd
000EB8 (base 16) Iiga co.,Ltd

3F TKBldg. 3-5-2 Sotokanda
Chiyoda-Ku Tokyo 101-0021
JP

00-0E-BB (hex) Everbee Networks
000EBB (base 16) Everbee Networks
41, Boulevard des Capucines
Paris 75002
FR

00-0E-BE (hex) B&B Electronics Manufacturing Co.
000EBE (base 16) B&B Electronics Manufacturing Co.
707 Dayton Road
Ottawa Ilinois 61350
US

00-0E-B0 (hex) Solutions Radio BV
000EB0 (base 16) Solutions Radio BV
Prinsegracht
82
The Hague ZH 2512 GC
NL

00-0E-F3 (hex) Smartlabs, Inc.
000EF3 (base 16) Smartlabs, Inc.
1621 Alton Parkway, Suite 100
Irvine CA 92606
US

00-0E-F2 (hex) Infinico Corporation
000EF2 (base 16) Infinico Corporation
4F, F-1 Bldg., 1-2-12,
Tokyo 105-0013
JP

00-0F-0D (hex) Hunt Electronic Co., Ltd.
000F0D (base 16) Hunt Electronic Co., Ltd.
6FI, NO. 57-59, Jiun H Sien Rd., Chi Tu District
Keelung Taiwan 206
TW

00-0F-08 (hex) Indagon Oy
000F08 (base 16) Indagon Oy
Nuijamiestentie 5 A
Helsinki - 00400
FI

00-0E-77 (hex) Decru, Inc.

000E77 (base 16) Decru, Inc.
275 Shoreline Dr
Redwood City CA 94065
US

00-0E-6A (hex) 3Com Ltd
000E6A (base 16) 3Com Ltd
Peoplebuilding 2
Hemel Hempstead Herts HP2 4NW
GB

00-0E-69 (hex) China Electric Power Research Institute
000E69 (base 16) China Electric Power Research Institute
No.15
Xiaoying East Road,Qinghe,Beijing,China
Beijing 100085
CN

00-0E-90 (hex) PONICO CORP.
000E90 (base 16) PONICO CORP.
602, Ace Twin Tower 1, 212-1 Guro-dong
Gurogu Seoul 152-766
KR

00-0E-8A (hex) Avara Technologies Pty. Ltd.
000E8A (base 16) Avara Technologies Pty. Ltd.
9 Business Park Drive
Notting Hill Victoria 3168
AU

00-0E-83 (hex) Cisco Systems, Inc
000E83 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0E-49 (hex) Forsway Scandinavia AB
000E49 (base 16) Forsway Scandinavia AB
Kanikegränd 3B
541 34 Skövde
SE

00-0E-42 (hex) Motic Incoporation Ltd.
000E42 (base 16) Motic Incoporation Ltd.
Room 2907-8, Windsor House
Hong Kong
CN

00-0E-3D (hex) Televic N.V.
000E3D (base 16) Televic N.V.
Leo Bekaertlaan 1
Izegem 8870
BE

00-0E-39 (hex) Cisco Systems, Inc
000E39 (base 16) Cisco Systems, Inc
80 West
Tasman Drive
San Jose CA 94568
US

00-0E-34 (hex) NexGen City, LP
000E34 (base 16) NexGen City, LP
1680 Glenville
Richardson Texas 75081
US

00-0E-81 (hex) Devicescape Software, Inc.
000E81 (base 16) Devicescape Software, Inc.
1000 Marina Blvd
Brisbane CA 94005
US

00-0E-88 (hex) VIDEOTRON CORP.
000E88 (base 16) VIDEOTRON CORP.
17-16,2-CHOME
HACHIOJI TOKYO 193-0835
JP

00-0E-86 (hex) Alcatel North America
000E86 (base 16) Alcatel North America
2301 Sugar Bush Road
Raleigh NC 27612
US

00-0E-7E (hex) ionSign Oy
000E7E (base 16) ionSign Oy
P.O.BOX 246
Rauma
FI

00-0E-61 (hex) MICROTROL LIMITED
000E61 (base 16) MICROTROL LIMITED
16 ELGAR BUSINESS CENTRE
HALLOW WORCESTER WR2 6NJ
GB

00-0E-64 (hex) Elphel, Inc
000E64 (base 16) Elphel, Inc
3200 S. Elpmer St.
Magna UT 84044
US

00-0E-5A (hex) TELEFIELD inc.
000E5A (base
16) TELEFIELD inc.
3F, Kumbo Bldg, 2-9, Seokchon-Dong
Seoul 138-190
KR

00-0E-5D (hex) Triple Play Technologies A/S
000E5D (base 16) Triple Play Technologies A/S
Herstedvang 8
Albertslund DK-2620
DK

00-0E-2D (hex) Hyundai Digital Technology Co.,Ltd.
000E2D (base 16) Hyundai Digital Technology Co.,Ltd.
223-22, Sangdaewon-1dong, Jungwon-gu
Seongnam-si Kyoungki-do 462-807
KR

00-0E-30 (hex) AERAS Networks, Inc.
000E30 (base 16) AERAS Networks, Inc.
P.O. Box 7330
Laguna Niguel CA 92607-7330
US

00-0E-29 (hex) Shester Communications Inc
000E29 (base 16) Shester Communications Inc
159 S. Lincoln
Spokane WA 99201
US

00-0E-19 (hex) LogicaCMG Pty Ltd
000E19 (base 16) LogicaCMG Pty Ltd
17-19 Orion Road
Lane Cove NSW 2066
AU

00-0E-1A (hex) JPS Communications
000E1A (base 16) JPS Communications
5800 Departure Drive
Raleigh NC 27616

US

00-0E-52 (hex) Optium
Corporation
000E52 (base 16) Optium Corporation
500 Horizon Dr
Chalfont PA 18914
US

00-0E-4D (hex) Numesa Inc.
000E4D (base 16) Numesa Inc.
4444 Westgrove Suite 300
Addison TX 75001
US

00-0E-4C (hex) Bermai Inc.
000E4C (base 16) Bermai Inc.
410 Cambridge Ave
Palo Alto CA 94306
US

00-0E-9C (hex) Benchmark Electronics
000E9C (base 16) Benchmark Electronics
3535 Technology Drive
Rochester MN 55901
US

00-0E-9A (hex) BOE TECHNOLOGY GROUP CO.,LTD
000E9A (base 16) BOE TECHNOLOGY GROUP CO.,LTD
No.10 Jiuxianqiao Road,Chaoyang District,Beijing,PRC
Beijing 100016
CN

00-0D-AA (hex) S.A.Tehnology co.,Ltd.
000DAA (base 16) S.A.Tehnology co.,Ltd.
80-12 Yangjae 1 Dong
Seoul South Korea 137-890
KR

00-0D-A6 (hex) Universal Switching Corporation
000DA6 (base 16) Universal Switching Corporation
7671 San Fernando Rd
Burbank CA 91505-1073
US

00-0D-A2
(hex) Infrant Technologies, Inc.
000DA2 (base 16) Infrant Technologies, Inc.

48820 Kato Road
Fremont CA 94538
US

00-0D-E1 (hex) Control Products, Inc.
000DE1 (base 16) Control Products, Inc.
1724 Lake Drive West
Chanhassen MN 55317
US

00-0D-D0 (hex) TetraTec Instruments GmbH
000DD0 (base 16) TetraTec Instruments GmbH
Gewerbestrasse 8
Steinenbronn BW 71144
DE

00-0D-D3 (hex) SAMWOO Telecommunication Co.,Ltd.
000DD3 (base 16) SAMWOO Telecommunication Co.,Ltd.

Gunpo Kyoung-Gi 435-831
KR

00-0D-B3 (hex) SDO Communication Corperation
000DB3 (base 16) SDO Communication Corperation
6F, No.112, Shin Min Street
Chung Ho City Taipei Hsien 235
TW

00-0D-AE (hex) SAMSUNG HEAVY INDUSTRIES CO., LTD.
000DAE (base 16) SAMSUNG HEAVY INDUSTRIES CO., LTD.
493, Banweol-Ri, Taean-Eup
Hwaseong-City Kyeonggi-Do 445-973
KR

00-0D-B2 (hex) Ammasso, Inc.
000DB2
(base 16) Ammasso, Inc.
345 Summer Street
Boston MA 02210
US

00-0E-0D (hex) Hesch Schröder GmbH
000E0D (base 16) Hesch Schröder GmbH
Boschstraße 8
Neustadt Niedersachsen 31535
DE

00-0D-FF (hex) CHENMING MOLD INDUSTRY CORP.

000DFF (base 16) CHENMING MOLD INDUSTRY CORP.
2F No. 26, Lane 513, Rei Kuang Rd.
Taipei 114
TW

00-0D-F6 (hex) Technology Thesaurus Corp.
000DF6 (base 16) Technology Thesaurus Corp.
NO. 6, East 4th St. KEPZ
KAOHSIUNG 806
TW

00-0D-C7 (hex) COSMIC ENGINEERING INC.
000DC7 (base 16) COSMIC ENGINEERING INC.
1-3-5, Nishihirayama
Hino-shi TOKYO 191-0055
JP

00-0D-C2 (hex) Private
000DC2 (base 16) Private

00-0D-BF (hex) TekTone Sound & Signal Mfg., Inc.
000DBF (base 16) TekTone Sound & Signal Mfg., Inc.
277 Industrial Park Rd.
Franklin NC 28734
US

00-0E-06 (hex) Team Simoco Ltd
000E06 (base 16) Team Simoco Ltd
Field House
Derby
Derbyshire DE1 1NH
GB

00-0D-D8 (hex) BBN
000DD8 (base 16) BBN
7F-3,NO.186, Jian Yi Rd ., Chung Ho City
Taipei 235
TW

00-0D-5C (hex) Robert Bosch GmbH, VT-ATMO
000D5C (base 16) Robert Bosch GmbH, VT-ATMO
Wernerstrasse 51
Stuttgart BW 70469
DE

00-0D-60 (hex) IBM Corp
000D60 (base 16) IBM Corp
3039 E Cornwallis Road

Research Triangle Park NC 27709-2195
US

00-0D-5F (hex) Minds Inc
000D5F (base 16) Minds Inc
1919 boul lionel bertrand
Boisbriand Quebec J7H 1N8
CA

00-0D-54 (hex) 3Com Ltd
000D54 (base 16) 3Com Ltd
Peoplebuilding 2
Hemel Hempstead Herts HP2 4NW
GB

00-0D-8C (hex) Shanghai Wedone Digital Ltd. CO.
000D8C (base 16) Shanghai Wedone Digital Ltd. CO.
893-899 Huashan Road,
Shanghai 200031
CN

00-0D-94 (hex) AFAR Communications,Inc
000D94 (base 16) AFAR Communications,Inc
81 David Love Place
Santa Barbara CA 93117
US

00-0D-8D
(hex) Prosoft Technology, Inc
000D8D (base 16) Prosoft Technology, Inc
5201 Truxtun Ave
Bakersfield CA 93300
US

00-0D-69 (hex) TMT&D Corporation
000D69 (base 16) TMT&D Corporation
2-24-1
Fuchu-si Tokyo 183-0057
JP

00-0D-68 (hex) Vinci Systems, Inc.
000D68 (base 16) Vinci Systems, Inc.
8330 Boone Boulevard
Vienna VA 22182
US

00-0D-64 (hex) COMAG Handels AG
000D64 (base 16) COMAG Handels AG

Zillenhardtstraße 41
Goeppingen Baden-Württemberg 73037
DE

00-0D-84 (hex) Makus Inc.
000D84 (base 16) Makus Inc.
4F Daedo Bldg., 748-14 Yeoksam-dong
Kangnam-gu Seoul 135-080
KR

00-0D-74 (hex) Sand Network Systems, Inc.
000D74 (base 16) Sand Network Systems, Inc.
434 Payran Street, Suite B
Petaluma CA 94952
US

00-0D-7D (hex) Afco Systems
000D7D (base 16) Afco Systems
200 Finn Court
Farmingdale NY 11735
US

00-0D-73 (hex) Technical
Support, Inc.
000D73 (base 16) Technical Support, Inc.
11253 John Galt Blvd
Omaha Nebraska 68137
US

00-0D-9C (hex) K.A. Schmersal GmbH & Co. KG
000D9C (base 16) K.A. Schmersal GmbH & Co. KG
Im Ostpark 2
Wettenberg Hessen 35435
DE

00-0D-98 (hex) S.W.A.C. Schmitt-Walter Automation Consult GmbH
000D98 (base 16) S.W.A.C. Schmitt-Walter Automation Consult GmbH
Oedenpullach 1
Oberhaching Bavaria 82041
DE

00-0D-4C (hex) Outline Electronics Ltd.
000D4C (base 16) Outline Electronics Ltd.
7/F Benson Tower
Kwun Tong Kowloon
HK

00-0D-4D (hex) Ninelanes

000D4D (base 16) Ninelanes
#405 4F Diplomatic Center
Seoul 1376-1
KR

00-0D-53 (hex) Beijing 5w Communication Corp.
000D53 (base 16) Beijing 5w Communication Corp.
NO.4,Zhong-Guan-Cun South 4 street,
Beijing 100080
CN

00-0D-34 (hex) Shell International Exploration and Production, Inc.
000D34 (base 16) Shell
International Exploration and Production, Inc.
BTC-Gasmer
Houston TX 77001
US

00-0D-32 (hex) DispenseSource, Inc.
000D32 (base 16) DispenseSource, Inc.
29801 Santa Margarita Parkway
Rancho Santa Margarita CA 92688
US

00-0D-38 (hex) NISSIN INC.
000D38 (base 16) NISSIN INC.
10-7 KAMEI-CHO
TAKARAZUKA HYOGO 665-0047
JP

00-0D-2E (hex) Matsushita Avionics Systems Corporation
000D2E (base 16) Matsushita Avionics Systems Corporation
26200 Enterprise Way
Lake Forest CA 92630
US

00-0D-28 (hex) Cisco Systems, Inc
000D28 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0D-15 (hex) Voipac s.r.o.
000D15 (base 16) Voipac s.r.o.
Ul. Janka Krala 3
Trencin 911 01
SK

00-0D-0F (hex) Finlux Ltd
000D0F (base 16) Finlux Ltd
Radiomiehenkatu 3
Turku FIN-20321
FI

00-0D-12 (hex) AXELL Corporation
000D12 (base 16) AXELL
Corporation
Akihabara UDX South Wing 10F
Chiyoda-ku Tokyo 101-8973
JP

00-0C-A6 (hex) Mintera Corporation
000CA6 (base 16) Mintera Corporation
847 Rogers Street
Lowell MA 01852
US

00-0C-94 (hex) United Electronic Industries, Inc. (EUI)
000C94 (base 16) United Electronic Industries, Inc. (EUI)
27 Renmar Ave
Walpole MA 02081
US

00-0C-9B (hex) EE Solutions, Inc
000C9B (base 16) EE Solutions, Inc
8F, No. 9, Park II Ave., Science-Based I
Hsin Chu 300
TW

00-0C-FC (hex) S2io Technologies Corp
000CFC (base 16) S2io Technologies Corp
505 March Rd
Ottawa Ontario K2K 2M5
CA

00-0C-F6 (hex) Sitecom Europe BV
000CF6 (base 16) Sitecom Europe BV
Sevillaweg 122
Rotterdam ZH 3047 AL
NL

00-0C-F2 (hex) GAMESA Eólica
000CF2 (base 16) GAMESA Eólica
Polígono Agustinos. C/ A s/n.
Pamplona NAVARRA 31013
ES

00-0C-C1 (hex) Eaton Corporation
000CC1 (base
16) Eaton Corporation
2300 Badger Drive
Waukesha WI 53188
US

00-0C-DE (hex) ABB STOTZ-KONTAKT GmbH
000CDE (base 16) ABB STOTZ-KONTAKT GmbH
Eppelheimer Straße 82
Heidelberg Baden-Württemberg 69123
DE

00-0C-C5 (hex) Nextlink Co., Ltd.
000CC5 (base 16) Nextlink Co., Ltd.
C 605, Technopark #145 Yatop-dong,
Seongnam-si Bundang-gu, Gyeonggi 463-760
KR

00-0C-C2 (hex) ControlNet (India) Private Limited
000CC2 (base 16) ControlNet (India) Private Limited
L-44, Unit - I
Verna, Salcete Goa 403 722
IN

00-0C-E1 (hex) The Open Group
000CE1 (base 16) The Open Group
Apex Plaza
Reading Berks RG1 1AX
GB

00-0C-DC (hex) BECS Technology, Inc
000CDC (base 16) BECS Technology, Inc
9487 Dielman Rock Island Industrial Driv
St. Louis MO 63132
US

00-0C-BF (hex) Holy Stone Ent. Co., Ltd.
000CBF (base 16) Holy Stone Ent. Co., Ltd.
1F, No.62, Sec.2, Huang Shan Rd.,
Taipei
114
US

00-0C-A1 (hex) SIGMACOM Co., LTD.
000CA1 (base 16) SIGMACOM Co., LTD.
DacomBldg 7F 200-12 Anyang-dong

430-817
KR

00-0D-0A (hex) Barco Projection Systems NV
000D0A (base 16) Barco Projection Systems NV
Beneluxpark 21
Kortrijk West Flanders 8500
BE

00-0C-44 (hex) Automated Interfaces, Inc.
000C44 (base 16) Automated Interfaces, Inc.
120 Confederate Lane
Greer South Carolina 29651
US

00-0C-3B (hex) Orion Electric Co., Ltd.
000C3B (base 16) Orion Electric Co., Ltd.
41-1, Iehisa-cho
Takefu-shi Fukui 915-8555
JP

00-0C-3D (hex) Glsystech Co., Ltd.
000C3D (base 16) Glsystech Co., Ltd.
Song Bo B/D 3F
Seoul
KR

00-0C-71 (hex) Wybron, Inc
000C71 (base 16) Wybron, Inc
4830 LIst Dr
Colorado Springs Colorado 80919
US

00-0C-72 (hex) Tempearl Industrial Co., Ltd.
000C72 (base 16) Tempearl Industrial Co., Ltd.
3-1-42 Ohzu
Hiroshima-shi
Hiroshima 732-0802
JP

00-0C-78 (hex) In-Tech Electronics Limited
000C78 (base 16) In-Tech Electronics Limited
Unit A, 13th Floor., Wing Tai Centre
Kwun Tong Kowloon
HK

00-0C-2F (hex) SeorimTechnology Co.,Ltd.
000C2F (base 16) SeorimTechnology Co.,Ltd.

2F DIPLOMATIC CENTER B/D 1376-1 SEOCHO2-
SEOUL 137-072
US

00-0C-31 (hex) Cisco Systems, Inc
000C31 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0C-2E (hex) Openet information technology(shenzhen) Co., Ltd.
000C2E (base 16) Openet information technology(shenzhen) Co., Ltd.
2/F,A tower,international tech-innovatio
shenzhen guangdong 518057
CN

00-0C-2C (hex) Enwiser Inc.
000C2C (base 16) Enwiser Inc.
4F, Cheongseok B/D
Seoul Seoul 135-010
KR

00-0C-8B (hex) Connect Tech Inc
000C8B (base 16) Connect Tech Inc
42 Arrow Road
Guelph Ontario N1K 1S6
CA

00-0C-90 (hex) Octasic
Inc.
000C90 (base 16) Octasic Inc.
4101 Molson St.
Montreal Quebec H1Y 3L1
CA

00-0C-8C (hex) KODICOM CO.,LTD.
000C8C (base 16) KODICOM CO.,LTD.
A-Dong 5FI.,SK Twin Tower 345-9,
Seoul 153-023
KR

00-0C-55 (hex) Microlink Communications Inc.
000C55 (base 16) Microlink Communications Inc.
8F, 31, Hsintai Road
Hsinchu 302
TW

00-0C-59 (hex) Indyme Electronics, Inc.

000C59 (base 16) Indyme Electronics, Inc.
9085 Aero Dr.
San Diego CA 92123
US

00-0C-5C (hex) GTN Systems B.V.
000C5C (base 16) GTN Systems B.V.
Postbus 12236
Amsterdam
NL

00-0C-52 (hex) Roll Systems Inc.
000C52 (base 16) Roll Systems Inc.
53 Third Avenue
Burlington MA 01803
US

00-0C-28 (hex) RIFATRON
000C28 (base 16) RIFATRON
9th FL, SHINTAEYANG BLDG
SEOUL SEOCHO-GU 137-041
KR

00-0C-21 (hex) Faculty of Science and Technology, Keio University
000C21 (base 16) Faculty
of Science and Technology, Keio University
3-14-1 Hiyoshi, Kohoku-ku
Yokohama Kanagawa 223-8522
JP

00-0C-1B (hex) ORACOM Co, Ltd.
000C1B (base 16) ORACOM Co, Ltd.
3rd Fl, A-Sung Bldg, 999-3
Seoul 135-280
KR

00-0C-74 (hex) RIVERTEC CORPORATION
000C74 (base 16) RIVERTEC CORPORATION
882-5 MIYAGASAKI
IMABARI EHIME 799-1537
JP

00-0C-67 (hex) OYO ELECTRIC CO.,LTD
000C67 (base 16) OYO ELECTRIC CO.,LTD
63-1 Nakamichi Omote
Joyo Kyoto 610-0101
JP

00-0C-53 (hex) Private
000C53 (base 16) Private

00-0C-48 (hex) QoStek Corporation
000C48 (base 16) QoStek Corporation
7F, 22, Taiyuen Street
Chupei Hsinchu Hsien 302
TW

00-0C-4D (hex) Curtiss-Wright Controls Avionics & Electronics
000C4D (base 16) Curtiss-Wright Controls Avionics & Electronics
Landscape House,
Churchtown, Dublin 14
IE

00-0C-63 (hex) Zenith Electronics Corporation
000C63 (base 16) Zenith
Electronics Corporation
2000 Millbrook Drive
Lincolnshire Illinois 60069
US

00-0B-91 (hex) Aglaia Gesellschaft für Bildverarbeitung und Kommunikation mbH
000B91 (base 16) Aglaia Gesellschaft für Bildverarbeitung und Kommunikation mbH
Tiniusstraße 12-15
Berlin D-13089
DE

00-0B-97 (hex) Matsushita Electric Industrial Co.,Ltd.
000B97 (base 16) Matsushita Electric Industrial Co.,Ltd.
3-1-1 Yagumo-Naka-Machi
Moriguchi City Osaka 570-8501
JP

00-0B-92 (hex) Ascom Danmark A/S
000B92 (base 16) Ascom Danmark A/S
Fabriksparken 42
Glostrup Denmark 2600
DK

00-0B-9A (hex) Shanghai Ulink Telecom Equipment Co. Ltd.
000B9A (base 16) Shanghai Ulink Telecom Equipment Co. Ltd.
6 Floor, Building 3
Shanghai 200083
CN

00-0B-96 (hex) Innotrac Diagnostics Oy
000B96 (base 16) Innotrac Diagnostics Oy

Kalevantie 25
Turku Åbo 20520
FI

00-0B-BC (hex) En Garde Systems, Inc.
000BBC
(base 16) En Garde Systems, Inc.
2101 White Cloud St. NE
Albuquerque NM 87112
US

00-0B-B1 (hex) Super Star Technology Co., Ltd.
000BB1 (base 16) Super Star Technology Co., Ltd.
No. 7 Lane 306,Sec. 2,Tai-Lin Rd.
Taipei Hsien 243
US

00-0B-BF (hex) Cisco Systems, Inc
000BBF (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0B-AD (hex) PC-PoS Inc.
000BAD (base 16) PC-PoS Inc.
309 Commissioners Road West
London Ontario N6J 1Y4
CA

00-0B-A0 (hex) T&L Information Inc.
000BA0 (base 16) T&L Information Inc.
898-44 Hokye-Dong, Dongan-Gu
Anyang Kyungki-Do 431-836
KR

00-0B-C2 (hex) Corinex Communication Corp.
000BC2 (base 16) Corinex Communication Corp.
#308 1168 Hamilton Street
Vancouver B.C. V6B 2S2
US

00-0B-B5 (hex) nStor Technologies, Inc.
000BB5 (base 16) nStor Technologies, Inc.
100 Technology Park
Lake Mary FL
32746
US

00-0B-B9 (hex) Imsys AB
000BB9 (base 16) Imsys AB
Johanneslundsvagen 3
Upplands Vasby SE-19461
SE

00-0B-BB (hex) Etin Systems Co., Ltd
000BBB (base 16) Etin Systems Co., Ltd
12F, IT Venture Tower,
Seoul 138-803
KR

00-0B-F7 (hex) NIDEK CO.,LTD
000BF7 (base 16) NIDEK CO.,LTD
34-14 Maehama
Gamagori Aich 443-0038
JP

00-0C-00 (hex) BEB Industrie-Elektronik AG
000C00 (base 16) BEB Industrie-Elektronik AG
Progressastrasse 31
Oberburg BE 3414
CH

00-0B-F3 (hex) BAE SYSTEMS
000BF3 (base 16) BAE SYSTEMS
6500 Tracor Lane
Austin Texas 78725
US

00-0B-ED (hex) ELM Inc.
000BED (base 16) ELM Inc.
2398 Kasedamiyahara
Minamisatsuma Kagoshima 897-1124
JP

00-0C-17 (hex) AJA Video Systems Inc
000C17 (base 16) AJA Video Systems Inc
180 Litton Drive
Grass Valley CA 95945
US

00-0C-11 (hex) NIPPON DEMPA CO.,LTD.
000C11 (base 16) NIPPON
DEMPA CO.,LTD.
1-4-8
kakegawa city shizuoka pref. 436-0028
JP

00-0C-14 (hex) Diagnostic Instruments, Inc.
000C14 (base 16) Diagnostic Instruments, Inc.
6540 Burroughs
Sterling Heights MI 48314
US

00-0B-C9 (hex) Electroline Equipment
000BC9 (base 16) Electroline Equipment
8265 boul. St-Michel
Montreal Quebec H1Z 3E4
CA

00-0B-7A (hex) L-3 Linkabit
000B7A (base 16) L-3 Linkabit
9890 Town Center Drive
San Diego CA 92121
US

00-0B-9D (hex) TwinMOS Technologies Inc.
000B9D (base 16) TwinMOS Technologies Inc.
303 No.3, Tzu Chiang Rd., Hu Kou Xiang,
Hsin Chu 303
TW

00-0B-2C (hex) Eiki Industrial Co. Ltd.
000B2C (base 16) Eiki Industrial Co. Ltd.
4-12 Manzai-cho, Kita-ku
Osaka 530
JP

00-0B-26 (hex) Wetek Corporation
000B26 (base 16) Wetek Corporation
4F, NO.17, Kuanfu N. Road
Hsin Chu Industrial Park 303
TW

00-0B-28 (hex) Quatech Inc.
000B28
(base 16) Quatech Inc.
662 Wolf Ledges Pkwy.
Akron OH 44311
US

00-0B-30 (hex) Beijing Gongye Science & Technology Co.,Ltd
000B30 (base 16) Beijing Gongye Science & Technology Co.,Ltd
Unit D.17/E,Shenlanhuating mid Road No.6
Beijing 100029

CN

00-0B-2A (hex) HOWTEL Co., Ltd.
000B2A (base 16) HOWTEL Co., Ltd.
J-COM Bd. 4F, 124-4 OJEON-DONG
UIWANG-SHI KYOUNGGI-DO 437-070
KR

00-0B-2B (hex) HOSTNET CORPORATION
000B2B (base 16) HOSTNET CORPORATION
10F-12,No. 12 Lane 609, Sec.5,Chunghsin
Sanchung Taipei Hsien 241
TW

00-0B-50 (hex) Oxygnet
000B50 (base 16) Oxygnet
402 E. Carrillo St.
Santa Barbara CA 93101
US

00-0B-52 (hex) JOYMAX ELECTRONICS CO. LTD.
000B52 (base 16) JOYMAX ELECTRONICS CO. LTD.
No.5 Dong-Yuan Road 2, Jhong-Li Industrial Park,
Tao-Yuan 32063
TW

00-0B-10 (hex) 11wave Technonlogy Co.,Ltd
000B10 (base 16) 11wave Technonlogy Co.,Ltd
10F,no.285
sec.2 ,Ti-Ding Ave,NaiHu.Taip
Taipei 114
TW

00-0B-07 (hex) Voxpath Networks
000B07 (base 16) Voxpath Networks
7600B Capital of Texas Highway - North
Austin Texas 78731
US

00-0B-04 (hex) Volktek Corporation
000B04 (base 16) Volktek Corporation
4F., No.192, Lian-Chang Road, Chang-Ho
Taipei
TW

00-0A-F9 (hex) HiConnect, Inc.
000AF9 (base 16) HiConnect, Inc.
Rm #906, Haksan Cosmostel, 110

Kwangjin-Gu Seoul 143-802
KR

00-0B-69 (hex) Franke Finland Oy
000B69 (base 16) Franke Finland Oy
Vartiokuja 1
NAARAJARVI FIN-76850
FI

00-0B-66 (hex) Teralink Communications
000B66 (base 16) Teralink Communications
Capital Tower 15F,
Daejeon 302120
KR

00-0B-56 (hex) Cybernetics
000B56 (base 16) Cybernetics
111 Cybernetics Way STE 300
Yorktown VA 23693
US

00-0B-38 (hex) Knürr GmbH
000B38 (base 16) Knürr GmbH
Mariakirchener Straße
38
Arnstorf Bavaria 94424
DE

00-0B-32 (hex) VORMETRIC, INC.
000B32 (base 16) VORMETRIC, INC.
2060 CORPORATE CT
SAN JOSE CA 95131
US

00-0B-02 (hex) Dallmeier electronic
000B02 (base 16) Dallmeier electronic
Würzburgerstraße 5
Regensburg Bavaria 93059
DE

00-0A-F2 (hex) NeoAxiom Corp.
000AF2 (base 16) NeoAxiom Corp.
1520 Montague Expressway
San Jose CA 95131
US

00-0A-F5 (hex) Airgo Networks, Inc.
000AF5 (base 16) Airgo Networks, Inc.

900 Arastradero Rd
Palo Alto CA 94304
US

00-0B-49 (hex) RF-Link System Inc.
000B49 (base 16) RF-Link System Inc.
No.6, Nan-Ke 5th Rd., Hsin-Shi,
Tainan County 744
TW

00-0B-46 (hex) Cisco Systems, Inc
000B46 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0B-84 (hex) BODET
000B84 (base 16) BODET
Route de la Tourlandry
TREMENTINES FRANCE 49340
FR

00-0B-77 (hex) Cogent
Systems, Inc.
000B77 (base 16) Cogent Systems, Inc.
209 Fair Oaks Ave.
South Pasadena CA 91030
US

00-0B-1F (hex) I CON Computer Co.
000B1F (base 16) I CON Computer Co.
3F, No. 142 , Hsin Ming Road
Neihu Taipei 114
TW

00-0B-13 (hex) ZETRON INC
000B13 (base 16) ZETRON INC
PO Box 97004
REDMOND WA 98073
US

00-0A-CC (hex) Winnow Networks, Inc.
000ACC (base 16) Winnow Networks, Inc.
701 Emerson Road
St. Louis MO 63141
US

00-0A-CF (hex) PROVIDEO Multimedia Co. Ltd.

000ACF (base 16) PROVIDEO Multimedia Co. Ltd.
5F, NO.8, ALLEY 2, TZU-WEI LANE,
HSIN TIEN CITY TAIPEI HSIEN, 231
TW

00-0A-D1 (hex) MWS
000AD1 (base 16) MWS
12, quai Papacino
NICE 06300
FR

00-0A-D3 (hex) INITECH Co., Ltd
000AD3 (base 16) INITECH Co., Ltd
3F, INITECH Bldg, 559-5,
Seoul Songpa 138-816
KR

00-0A-C8 (hex) ZPSYS CO.,LTD. (Planning&Management)
000AC8
(base 16) ZPSYS CO.,LTD. (Planning&Management)
106 Ace Techno Tower1
Seoul 152-050
KR

00-0A-C6 (hex) Overture Networks.
000AC6 (base 16) Overture Networks.
637 Davis Drive
Morrisville NC 27560
US

00-0A-F4 (hex) Cisco Systems, Inc
000AF4 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0A-F0 (hex) SHIN-OH ELECTRONICS CO., LTD. R&D
000AF0 (base 16) SHIN-OH ELECTRONICS CO., LTD. R&D
#729-5, Bonoh-Dong, Ansan-City, Kyunggi-
Ansan-City Kyunggi-Do 425-180
KR

00-0A-EE (hex) GCD Hard- & Software GmbH
000AEE (base 16) GCD Hard- & Software GmbH
Henkestraße 79
Erlangen Bayern 91052
DE

00-0A-E9 (hex) AirVast Technology Inc.
000AE9 (base 16) AirVast Technology Inc.
3F.-5, No.6, Lane 609, Sec. 5, Chongsin Rd.
Sanchong City Taipei 241
TW

00-0A-7F (hex) Teradon Industries, Inc
000A7F (base 16) Teradon Industries, Inc
7500 2nd ST NW
Albuquerque
NM 87120
US

00-0A-81 (hex) TEIMA Audiotex S.L.
000A81 (base 16) TEIMA Audiotex S.L.
C/ Tirvia, 6, local B
Madrid 28040
ES

00-0A-87 (hex) Integrated Micromachines Inc.
000A87 (base 16) Integrated Micromachines Inc.
1400 S. Shamrock Ave.
Monrovia CA 91016
US

00-0A-77 (hex) Bluewire Technologies LLC
000A77 (base 16) Bluewire Technologies LLC
420 N. O St.
Tulare Ca 93274
US

00-0A-7A (hex) Kyoritsu Electric Co., Ltd.
000A7A (base 16) Kyoritsu Electric Co., Ltd.
2-3-17
Komae-shi Tokyo 201-0005
JP

00-0A-D8 (hex) IPCserv Technology Corp.
000AD8 (base 16) IPCserv Technology Corp.
6f,No.107,Pan-Hsin Rd
Pan-Chiao Taipei 22046
TW

00-0A-CD (hex) Sunrich Technology Limited
000ACD (base 16) Sunrich Technology Limited
Unit 1301, Eastern Centre, 1065 King's R
Quarry Bay
HK

00-0A-59 (hex) HW server
000A59 (base 16) HW server
Italska
15
Prague 2 Czech Republic 120 00
KM

00-0A-54 (hex) Laguna Hills, Inc.
000A54 (base 16) Laguna Hills, Inc.
3-5-2
Chiyoda-ku Tokyo 102-0083
JP

00-0A-52 (hex) AsiaRF Ltd.
000A52 (base 16) AsiaRF Ltd.
3F, No.176, Yongzhen Road
New Taipei City Taipei 234
TW

00-0A-8C (hex) Guardware Systems Ltd.
000A8C (base 16) Guardware Systems Ltd.
Ulloi ut 102.
Budapest H-1089
HU

00-0A-96 (hex) MEWTEL TECHNOLOGY INC.
000A96 (base 16) MEWTEL TECHNOLOGY INC.
E15FL. IT VENTURE TOWER
SEOUL 138-803
KR

00-0A-82 (hex) TATSUTA SYSTEM ELECTRONICS CO.,LTD.
000A82 (base 16) TATSUTA SYSTEM ELECTRONICS CO.,LTD.
IWATATYOU2-3-1
HIGASHIOOSAKA-SHI OOSAKA-FU 578-8585
JP

00-0A-7D (hex) Valo, Inc.
000A7D (base 16) Valo, Inc.
1351 Redwood Way
Petaluma CA 94954
US

00-0A-AB (hex) Toyota Technical Development Corporation
000AAB (base 16) Toyota Technical Development Corporation
1-9,

Imae, Hanamoto-cho
Toyota Aichi 470-0334
JP

00-0A-B4 (hex) ETIC Telecommunications
000AB4 (base 16) ETIC Telecommunications
13, chemin du vieux-chene ZIRST
MEYLAN Isere 38240
FR

00-0A-75 (hex) Caterpillar, Inc
000A75 (base 16) Caterpillar, Inc
Mailstop Location AC6130
Mossville IL 61552-0610
US

00-0A-65 (hex) GentechMedia.co.,ltd.
000A65 (base 16) GentechMedia.co.,ltd.
solvit bldg 2f, 402-8, yangjae-don,
seocho-gu, seoul 137-899
KR

00-0A-9C (hex) Server Technology, Inc.
000A9C (base 16) Server Technology, Inc.
1040 Sandhill Drive
Reno Nevada 89521
US

00-0A-22 (hex) Amperion Inc
000A22 (base 16) Amperion Inc
250 Apollo Drive
Chelmsford MA 01824
US

00-0A-1C (hex) Bridge Information Co., Ltd.
000A1C (base 16) Bridge Information Co., Ltd.
No.3, Lane 106, Wu-Kung 2 Rd.,
Taipei 248
TW

00-0A-12 (hex) Azylex Technology, Inc
000A12
(base 16) Azylex Technology, Inc
7-2Fl., No. 738 Chung Cheng Road,
Chung Ho City Taipei 235
TW

00-0A-13 (hex) Honeywell Video Systems

000A13 (base 16) Honeywell Video Systems
6554 176 Street
Surrey BC V3S 4G5
CA

00-0A-09 (hex) TaraCom Integrated Products, Inc.
000A09 (base 16) TaraCom Integrated Products, Inc.
830 Stewart Dr.
Sunnyvale CA 94085
US

00-0A-41 (hex) Cisco Systems, Inc
000A41 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0A-3E (hex) EADS Telecom
000A3E (base 16) EADS Telecom
Landshuter Strasse 26
Munich Bavaria 85716
DE

00-0A-48 (hex) Albatron Technology
000A48 (base 16) Albatron Technology
6F, No 716, Chung Cheng,
Chung-Ho City Taipei Hsien
TW

00-0A-36 (hex) Synelec Telecom Multimedia
000A36 (base 16) Synelec Telecom Multimedia
Zone Industrielle
Saint Sernin sur Rance Aveyron F-12380
FR

00-0A-32
(hex) Xsido Corporation
000A32 (base 16) Xsido Corporation
3F,2-8-13,Shiba-Daimon,
Tokyo 105-0012
JP

00-09-D9 (hex) Neoscale Systems, Inc
0009D9 (base 16) Neoscale Systems, Inc
1500 Mc Candless Drive
Milpitas CA 95035
US

00-09-D0 (hex) Solacom Technologies Inc.
0009D0 (base 16) Solacom Technologies Inc.
80 Jean-Proulx
Gatineau Quebec J8Z 1W1
CA

00-09-CC (hex) Moog GmbH
0009CC (base 16) Moog GmbH
Hanns-Klemm-Str. 28
Boeblingen D-71034
DE

00-09-C8 (hex) SINAGAWA TSUSHIN KEISOU SERVICE
0009C8 (base 16) SINAGAWA TSUSHIN KEISOU SERVICE
13-5 Fuke , Sumiyoshi , Onahama
Iwaki City Fukushima Prefecture 971-8124
JP

00-0A-2B (hex) Etherstuff
000A2B (base 16) Etherstuff
208 W. Mimosa Circle
San Marcos TX 78666
US

00-0A-00 (hex) Mediatek Corp.
000A00 (base 16) Mediatek Corp.
8F, No 69-5, Sec.2, Chung Cheng East Rd.
Taipei 251
TW

00-09-F0
(hex) Shimizu Technology Inc.
0009F0 (base 16) Shimizu Technology Inc.
15-6, No.107, Chung Shan Rd., Sec.1
Hsin Chuan, Taipei 242
US

00-09-EF (hex) Vocera Communications
0009EF (base 16) Vocera Communications
525 Race St.
San Jose California 95126
US

00-0A-4F (hex) Brain Boxes Limited
000A4F (base 16) Brain Boxes Limited
Unit 3c, Wavertree Boulevard South
Liverpool Merseyside L7 9PF
GB

00-0A-42 (hex) Cisco Systems, Inc
000A42 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-0A-38 (hex) Apani Networks
000A38 (base 16) Apani Networks
1800 E. Imperial Hwy
Brea CA 92821
US

00-09-E4 (hex) K Tech Infosystem Inc.
0009E4 (base 16) K Tech Infosystem Inc.
B-405, Bundang Techno-Park 148, Yatap-do
Seongnam Kyonggi-Do 464-070
KR

00-09-72 (hex) Securebase,Inc
000972 (base 16) Securebase,Inc
2nd Fl,Seungseung-Bldg,Dokok
2-Dong,Kang
Seoul 135-854
KR

00-09-78 (hex) AIJI System Co., Ltd.
000978 (base 16) AIJI System Co., Ltd.
#208 Samho-Park-Tower Bldg. 1122-10, Ing
Suwon Gyeonggi-do 442-835
KR

00-09-73 (hex) Lenten Technology Co., Ltd.
000973 (base 16) Lenten Technology Co., Ltd.
16F, No.51, Sec.2, Gungyi Road,
Taichung City 408
TW

00-09-75 (hex) fSONA Communications Corporation
000975 (base 16) fSONA Communications Corporation
#140-11120 Horseshoe Way
Richmond BC V7A 5H7
CA

00-09-77 (hex) Brunner Elektronik AG
000977 (base 16) Brunner Elektronik AG
Müllerwis 1
Hittnau Zurich 8335

CH

00-09-A4 (hex) HARTEC Corporation
0009A4 (base 16) HARTEC Corporation
KOUHOKUKU SHIN-YOKOHAMA
YOKOHAMA-SHI KANAGAWA-KEN 222-0033
JP

00-09-A6 (hex) Ignis Optics, Inc.
0009A6 (base 16) Ignis Optics, Inc.
482 W. San Carlos
San Jose California 95110
US

00-09-A7 (hex) Bang
& Olufsen A/S
0009A7 (base 16) Bang & Olufsen A/S
Peter Bangs Vej 15
Struer 7600
DK

00-09-A0 (hex) Microtechno Corporation
0009A0 (base 16) Microtechno Corporation
2-33-36 Shimoodanaka
Kawasaki Kanagawa 211-0041
JP

00-09-9B (hex) Western Telematic Inc.
00099B (base 16) Western Telematic Inc.
5 Sterling
Irvine CA 92618
US

00-09-B7 (hex) Cisco Systems, Inc
0009B7 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-09-B2 (hex) L&F Inc.
0009B2 (base 16) L&F Inc.
4-2-9
ITABASHI-KU Tokyo 175-0083
JP

00-09-A8 (hex) Eastmode Pte Ltd
0009A8 (base 16) Eastmode Pte Ltd
30 Loyang Way #07-06

508769
SG

00-09-AA (hex) Data Comm for Business, Inc.
0009AA (base 16) Data Comm for Business, Inc.
2949 County Road 1000 East
Dewey IL 61853
US

00-09-4C (hex) Communication Weaver Co.,Ltd.
00094C (base 16) Communication
Weaver Co.,Ltd.
1~3 COWEAVER B/D 446-19,
SEOUL 121-841
KR

00-09-42 (hex) Wireless Technologies, Inc
000942 (base 16) Wireless Technologies, Inc
Ohmori Mitsubishi Bldg., 7F, Sannoh 2-chome
Tokyo 143-0023
JP

00-09-45 (hex) Palmmicro Communications Inc
000945 (base 16) Palmmicro Communications Inc
630 Alder Dr
Milpitas CA 95035
US

00-09-3E (hex) C&I Technologies
00093E (base 16) C&I Technologies
#303 Kwanbo Plaza B/D, 1467-2
Anyang-Shi Kyunggi-Do 431-808
KR

00-09-C4 (hex) Medicore Co., Ltd
0009C4 (base 16) Medicore Co., Ltd
72-3 5th Fl., Luna Bldg, Chungdam-dong
Seoul 135-080
KR

00-09-69 (hex) Meret Optical Communications
000969 (base 16) Meret Optical Communications
10070 Mesa Rim Road
San Diego California 92121
US

00-09-6E (hex) GIANT ELECTRONICS LTD.
00096E (base 16) GIANT ELECTRONICS LTD.

7/F., ELITE INDUSTRIAL BUILDING,
KWUN TONG KOWLOON

HK

00-09-6C (hex) Imedia Semiconductor Corp.
00096C (base 16) Imedia Semiconductor Corp.
4988 Great America Pkwy.
Santa Clara CA 95054
US

00-09-5F (hex) Telebyte, Inc.
00095F (base 16) Telebyte, Inc.
270 Pulaski Road
Greenlawn NY 11740-1616
US

00-09-53 (hex) Linkage System Integration Co.Ltd.
000953 (base 16) Linkage System Integration Co.Ltd.
40 Gongjianfang
Nanjing Jiangsu 210006
CN

00-09-8A (hex) EqualLogic Inc
00098A (base 16) EqualLogic Inc
9 Townsend West
Nashua NH 03062
US

00-09-7F (hex) Vsecure 2000 LTD.
00097F (base 16) Vsecure 2000 LTD.
11 Moshe Levi St.
Rishon LeZion 75658
IL

00-09-80 (hex) Power Zenith Inc.
000980 (base 16) Power Zenith Inc.
Tsujido Nishikaigan 1-10-7
Fujisawa Kanagawa 251-0046
JP

00-09-90 (hex) ACKSYS Communications & systems
000990 (base 16) ACKSYS Communications & systems
ZA du Val Joyeux
VILLEPREUX
F-78450
FR

00-08-F4 (hex) Bluetake Technology Co., Ltd.
0008F4 (base 16) Bluetake Technology Co., Ltd.
6F, No. 33, Lane 155, Sec. 3, Pei Shen R
Taipei Taiwan 222
TW

00-08-F7 (hex) Hitachi Ltd, Semiconductor & Integrated Circuits Gr
0008F7 (base 16) Hitachi Ltd, Semiconductor & Integrated Circuits Gr
20-1 Josuihon-chou 5chome
Kodaira-shi Tokyo 187-8588
JP

00-08-F5 (hex) YESTECHNOLOGY Co.,Ltd.
0008F5 (base 16) YESTECHNOLOGY Co.,Ltd.
4th FL Kyung-Am B/D 157-27 Samsung-Dong,
Seoul 135-090
KR

00-08-EC (hex) Optical Zonu Corporation
0008EC (base 16) Optical Zonu Corporation
15028 Delano Street
Van Nuys CA 91411-2016
US

00-08-CF (hex) Nippon Koei Power Systems Co., Ltd.
0008CF (base 16) Nippon Koei Power Systems Co., Ltd.
2940 Shinyoshida-cho
Kohoku-ku Yokohama 223-8506
JP

00-08-CB (hex) Zeta Broadband Inc.
0008CB (base 16) Zeta Broadband Inc.
660 Vista
Way, Suite B
Milpitas CA 95035
US

00-08-D3 (hex) Hercules Technologies S.A.S.
0008D3 (base 16) Hercules Technologies S.A.S.
6,place des colombes
Rennes Bretagne 35000
FR

00-08-D0 (hex) Musashi Engineering Co., LTD.
0008D0 (base 16) Musashi Engineering Co., LTD.
3-11-7, Nishi-shimbashi
Minato-ku Tokyo 105-0003
JP

00-09-40 (hex) AGFEO GmbH & Co. KG
000940 (base 16) AGFEO GmbH & Co. KG
Postfach 140107
Bielefeld Rhine Westfalia 33621
DE

00-09-3B (hex) HYUNDAI NETWORKS INC.
00093B (base 16) HYUNDAI NETWORKS INC.
SAN 136-1 AMI-RI BUBAL_EUP
ICHON KYUNGKI-DO 467-701
KR

00-09-34 (hex) Dream-Multimedia-Tv GmbH
000934 (base 16) Dream-Multimedia-Tv GmbH
Brückstraße 29
Menden Sauerland 58706
DE

00-09-16 (hex) Listman Home Technologies, Inc.
000916 (base 16) Listman Home Technologies, Inc.
1100 Northmeadow Parkway
Roswell Georgia 30076
US

00-09-11
(hex) Cisco Systems, Inc
000911 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-09-12 (hex) Cisco Systems, Inc
000912 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-09-08 (hex) VTech Technology Corp.
000908 (base 16) VTech Technology Corp.
2F-2, No. 124, Chung Cheng Rd., Shihlin
Taipei 11141
TW

00-09-1E (hex) Firstech Technology Corp.
00091E (base 16) Firstech Technology Corp.
8fl.,No.267,section 4,Hsin-Yi Rd. ,Da-An
Taipei 106

TW

00-09-20 (hex) EpoX COMPUTER CO.,LTD.
000920 (base 16) EpoX COMPUTER CO.,LTD.
10th Floor, No.346,Chung San Rd.,Sec.2,
Chung Ho City,Taipei Hsien 235
TW

00-09-22 (hex) TST Biometrics GmbH
000922 (base 16) TST Biometrics GmbH
Moehlstraße 39
81675 Munich
DE

00-09-05 (hex) iTEC Technologies Ltd.
000905 (base 16) iTEC Technologies Ltd.
160-1, Karak-Dong, Songpa-Gu
Seoul
138-809
KR

00-08-F9 (hex) Artesyn Embedded Technologies
0008F9 (base 16) Artesyn Embedded Technologies
2900 S. Diablo Way Suite 190
Tempe AZ 85282
US

00-09-30 (hex) AeroConcierge Inc.
000930 (base 16) AeroConcierge Inc.
10256 Yonge St.
Richmond Hill Ont. L4C 3B7
CA

00-08-E6 (hex) Littlefeet
0008E6 (base 16) Littlefeet
13000 Gregg Street
Poway California 92064
US

00-08-E2 (hex) Cisco Systems, Inc
0008E2 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-09-0B (hex) MTL Instruments PLC
00090B (base 16) MTL Instruments PLC
Power Court

Luton Bedfordshire LU1 3JJ
GB

00-08-58 (hex) Novatechnology Inc.
000858 (base 16) Novatechnology Inc.
Nova Bldg. 4F 641 03
Seoul 135-080
KR

00-08-50 (hex) Arizona Instrument Corp.
000850 (base 16) Arizona Instrument Corp.
1912 W. 4th Street
Tempe AZ 85281
US

00-08-5B
(hex) Hanbit Electronics Co., Ltd.
00085B (base 16) Hanbit Electronics Co., Ltd.
414-5, Woncheon-Dong, Paldal-Gu

KR

00-08-2B (hex) Wooksung Electronics, Inc.
00082B (base 16) Wooksung Electronics, Inc.
Jaho-Bldg. 6F, Tanbang-Dong,

KR

00-08-2E (hex) Multitone Electronics PLC
00082E (base 16) Multitone Electronics PLC
Multitone House, Beggarwood Lane

GB

00-08-C8 (hex) Soneticom, Inc.
0008C8 (base 16) Soneticom, Inc.
4325 Woodland Park Drive, Suite 102
West Melbourne Florida 32904
US

00-08-C4 (hex) Hikari Co.,Ltd.
0008C4 (base 16) Hikari Co.,Ltd.
418-4 Minaminoda Chigenobu-cho
Onsen-gun Ehime 791-0297
JP

00-08-BA (hex) Erskine Systems Ltd
0008BA (base 16) Erskine Systems Ltd

Salter Road
Scarborough North Yorkshire YO11 3DU
GB

00-08-B5 (hex) TAI GUEN ENTERPRISE CO., LTD
0008B5 (base 16) TAI GUEN ENTERPRISE CO., LTD
N0.400,
10F-7 HUANPEI RD.,
CHUNG LI 320-61
TW

00-08-B7 (hex) HIT Incorporated
0008B7 (base 16) HIT Incorporated
4F, 8, Lane 235, Pao-Chiao Road,
Shin Tien Taipei 231
TW

00-08-A2 (hex) ADI Engineering, Inc.
0008A2 (base 16) ADI Engineering, Inc.
1769A Worth Park
Charlottesville VA 22911
US

00-08-98 (hex) Gigabit Optics Corporation
000898 (base 16) Gigabit Optics Corporation
1156 Aster Ave.
Sunnyvale CA 94086-6810
US

00-08-9B (hex) ICP Electronics Inc.
00089B (base 16) ICP Electronics Inc.
4F, No. 22, Chung-Hsing Rd. Shi-Chi City
Taipei 221
TW

00-08-9C (hex) Elecs Industry Co., Ltd.
00089C (base 16) Elecs Industry Co., Ltd.
1-22-23,Shinsaku,Takatsu-Ku
Kawasaki Kanagawa 213-0014
JP

00-08-9D (hex) UHD-Elektronik
00089D (base 16) UHD-Elektronik
Zuercherstrasse 12
Baden AG 5400
CH

00-08-18 (hex) Pixelworks, Inc.

000818 (base 16) Pixelworks,
Inc.
226 Airport Parkway, Suite 595
San Jose CA 95110
US

00-08-0F (hex) Proximion Fiber Optics AB
00080F (base 16) Proximion Fiber Optics AB
Isafjordsgatan 9

SE

00-08-12 (hex) GM-2 Corporation
000812 (base 16) GM-2 Corporation
Shiba-Matushira-Bldg.
Tokyo Minato-ku 105-0014
JP

00-08-0B (hex) Birka BPA Informationssystem AB
00080B (base 16) Birka BPA Informationssystem AB
Box 20100

SE

00-08-0A (hex) Espera-Werke GmbH
00080A (base 16) Espera-Werke GmbH
Moltkestrasse 17- 33

DE

00-08-8F (hex) ADVANCED DIGITAL TECHNOLOGY
00088F (base 16) ADVANCED DIGITAL TECHNOLOGY
ADT BLDG.,3-3, YANGJAE-DONG,
SEOUL
KR

00-08-8B (hex) Tropic Networks Inc.
00088B (base 16) Tropic Networks Inc.
135 Micheal Cowpland Drive
Ottawa Ontario K2M2E9
CA

00-08-86 (hex) Hansung Teliann, Inc.
000886 (base 16) Hansung Teliann, Inc.
195-1, Neungpyung-ri,
Opo-eub

KR

00-08-2A (hex) Powerwallz Network Security
00082A (base 16) Powerwallz Network Security
120-13160 Vanier Place,
V6V 2J2
CA

00-08-17 (hex) EmergeCore Networks LLC
000817 (base 16) EmergeCore Networks LLC
10542 S. Jordan Gateway
South Jordan UT 84095
US

00-08-15 (hex) CATS Co., Ltd.
000815 (base 16) CATS Co., Ltd.
751-2 Kachida-cho,
224-0034
JP

00-08-5D (hex) Mitel Corporation
00085D (base 16) Mitel Corporation
350 Legget Drive
- K2K 2W7
CA

00-08-55 (hex) NASA-Goddard Space Flight Center
000855 (base 16) NASA-Goddard Space Flight Center
Code 561
Greenbelt MD 20771
US

00-08-5A (hex) IntiGate Inc.
00085A (base 16) IntiGate Inc.
309E IT Venture Tower
Seoul 138-803
KR

00-08-A9 (hex) SangSang Technology, Inc.
0008A9 (base 16) SangSang Technology, Inc.
64-8, Nogok-ri, Docheok-myun,
Gwangju Kyonggi-do 464-882
KR

00-08-A5
(hex) Peninsula Systems Inc.
0008A5 (base 16) Peninsula Systems Inc.
6902 Verde Ridge Rd.
Rancho Palos Verdes CA 90275

US

00-08-7F (hex) SPAUN electronic GmbH & Co. KG
00087F (base 16) SPAUN electronic GmbH & Co. KG
Byk-Gulden - Str. 22

DE

00-08-6B (hex) MIPSYS
00086B (base 16) MIPSYS
19C, Avenue des Indes
LES ULIS Cedex FR-91969
FR

00-07-F0 (hex) LogiSync LLC
0007F0 (base 16) LogiSync LLC
1313 Lear Industrial Parkway
Avon OH 44011
US

00-07-E7 (hex) FreeWave Technologies
0007E7 (base 16) FreeWave Technologies
1880 S. Flaitron Ct.
Boulder CO 80301
US

00-07-E3 (hex) Navcom Technology, Inc.
0007E3 (base 16) Navcom Technology, Inc.
123 West Torrance Blvd.,
Redondo Beach CA 90277
US

00-07-E1 (hex) WIS Communications Co. Ltd.
0007E1 (base 16) WIS Communications Co. Ltd.
4/F Building 533
Shenzhen Guangdong Providence

CN

00-07-E0 (hex) Palm Inc.
0007E0 (base 16) Palm Inc.
950 West Maude Ave
Sunnyvale CA 94085-2801
US

00-07-FA (hex) ITT Co., Ltd.
0007FA (base 16) ITT Co., Ltd.
1-14-7, Mukohjyuku,

JP

00-07-F6 (hex) Qqest Software Systems
0007F6 (base 16) Qqest Software Systems
860 East 4500 South #200
Murray UT 84107
US

00-07-FB (hex) Giga Stream UMTS Technologies GmbH
0007FB (base 16) Giga Stream UMTS Technologies GmbH
Konrad-Zuse-Strabe 7

DE

00-07-ED (hex) Altera Corporation
0007ED (base 16) Altera Corporation
101 Innovation Drive
San Jose CA 95134
US

00-07-EA (hex) Massana, Inc.
0007EA (base 16) Massana, Inc.
2901 Tasman Drive
Santa Clara CA 95054
US

00-07-F1 (hex) TeraBurst Networks Inc.
0007F1 (base 16) TeraBurst Networks Inc.
985 Stewart Drive
Sunnyvale CA 94086
US

00-07-F2 (hex) IOA Corporation
0007F2 (base 16) IOA
Corporation
350 Potrero Ave.
Sunnyvale CA 94085
US

00-07-D6 (hex) Commil Ltd.
0007D6 (base 16) Commil Ltd.
P.O. Box 10050

IL

00-07-D7 (hex) Caporis Networks AG
0007D7 (base 16) Caporis Networks AG

Süggelstraße 31

DE

00-07-D4 (hex) Zhejiang Yutong Network Communication Co Ltd.
0007D4 (base 16) Zhejiang Yutong Network Communication Co Ltd.
805 HuaXing Technical Building
Zhejiang
CN

00-07-CE (hex) Cabletime Limited
0007CE (base 16) Cabletime Limited
64 Greenham Road
Newbury Berkshire RG14 7HX
GB

00-07-D3 (hex) SPGPrints B.V.
0007D3 (base 16) SPGPrints B.V.
Raamstraat 1-3, 5831 AT Boxmeer
Boxmeer
NL

00-07-D0 (hex) Automat Engenharia de Automação Ltda.
0007D0 (base 16) Automat Engenharia de Automação Ltda.
Rua Santo Antonio, 917 - Reboucas
80230-120
BR

00-07-AD (hex) Pentacon GmbH Foto-und Feinwerktechnik
0007AD (base
16) Pentacon GmbH Foto-und Feinwerktechnik
Enderstrabe 94

DE

00-07-AC (hex) Eolring
0007AC (base 16) Eolring
10 Rue Alfred Kastler

FR

00-07-AA (hex) Quantum Data Inc.
0007AA (base 16) Quantum Data Inc.
2111 Big Timber Rd.
Elgin IL 60123-1100
US

00-07-A4 (hex) GN Netcom Ltd.

0007A4 (base 16) GN Netcom Ltd.
12-13 Sedling Road, Wear Est., District
England NE38 9BZ
GB

00-07-AF (hex) Red Lion Controls, LP
0007AF (base 16) Red Lion Controls, LP
20 Willow Springs Circle
York NY 17402
US

00-07-B2 (hex) Transaccess S.A.
0007B2 (base 16) Transaccess S.A.
R. Galeno De Castro, 1445
São Paulo SP
BR

00-07-9D (hex) Musashi Co., Ltd.
00079D (base 16) Musashi Co., Ltd.
3-21-1, Shimo-ochiai,
Tokyo 161-0033
JP

00-07-9F (hex) Action Digital Inc.
00079F (base 16) Action Digital Inc.
10650 Main St.
Fairfax VA 22030
US

00-07-92
(hex) Sütron Electronic GmbH
000792 (base 16) Sütron Electronic GmbH
Kurze Straße 29

DE

00-07-90 (hex) Tri-M Technologies (s) Limited
000790 (base 16) Tri-M Technologies (s) Limited
Blk 25, Kallang Avenue #07-01/04
339416
SG

00-07-8D (hex) NetEngines Ltd.
00078D (base 16) NetEngines Ltd.
146 Walnut Tree Close
GUI 4UB
GB

00-07-8A (hex) Mentor Data System Inc.
00078A (base 16) Mentor Data System Inc.
No. 24-1, Industry East 4 Rd.,
Hsin-Chu,
TW

00-07-84 (hex) Cisco Systems, Inc
000784 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-07-76 (hex) Federal APD
000776 (base 16) Federal APD
42775 Nine Mile Rd.
Novi MI 48375
US

00-07-7A (hex) Infoware System Co., Ltd.
00077A (base 16) Infoware System Co., Ltd.
Mizorogi Daiichi Bldg 4 F
Tokyo
JP

00-07-6A (hex) NEXTEYE Co., Ltd.
00076A (base
16) NEXTEYE Co., Ltd.
Shinsegi Plaza 4F, 900-9,
Kyunggi 431-070
KR

00-04-7C (hex) Skidata AG
00047C (base 16) Skidata AG
T-697553 Untersbergstr. 40

AT

00-07-BE (hex) DataLogic SpA
0007BE (base 16) DataLogic SpA
Via Candini, 2
Bologna
IT

00-06-DC (hex) Syabas Technology (Amquest)
0006DC (base 16) Syabas Technology (Amquest)
4727 Paseo Padre Parkway
Fremont CA 94555
US

00-06-E6 (hex) DongYang Telecom Co., Ltd.
0006E6 (base 16) DongYang Telecom Co., Ltd.
642-7 Deung Chon-Dong, KangSeo-Gu
Seoul 157-841
KR

00-06-D2 (hex) Tundra Semiconductor Corp.
0006D2 (base 16) Tundra Semiconductor Corp.
603 March Road
K2K-2M5
CA

00-06-E7 (hex) Bit Blitz Communications Inc.
0006E7 (base 16) Bit Blitz Communications Inc.
830 Hillview Ct., #290
Milpitas CA 95035
US

00-06-ED (hex) Inara Networks
0006ED (base 16) Inara Networks
3031 Tisch
Way,
San Jose CA 95128
US

00-06-D8 (hex) Maple Optical Systems
0006D8 (base 16) Maple Optical Systems
3200 North First St.
San Jose CA 95134
US

00-06-CF (hex) Thales Avionics In-Flight Systems, LLC
0006CF (base 16) Thales Avionics In-Flight Systems, LLC
17481 Red Hill Avenue
Irvine CA 92614-5630
US

00-06-DB (hex) ICHIPS Co., Ltd.
0006DB (base 16) ICHIPS Co., Ltd.
3F, Samjeon Bldg., 236-3
Seoul-City 135-01
KR

00-07-67 (hex) Yuxing Electronics Company Limited
000767 (base 16) Yuxing Electronics Company Limited
Unit 1808, 18/F Tower 3,
Kowloon Bay, Kowloon

HK

00-07-5B (hex) Gibson Guitars
00075B (base 16) Gibson Guitars
309 Park Plus Blvd.
Nashville TN 37217
US

00-07-62 (hex) Group Sense Limited
000762 (base 16) Group Sense Limited
27/F, Wu Chung House,
Wanchai
HK

00-07-0C (hex) SVA-Intrusion.com Co. Ltd.
00070C (base 16) SVA-Intrusion.com
Co. Ltd.
The 4th Floor, No. 28 Building
Shanghai 20233
CN

00-07-0F (hex) Fujant, Inc.
00070F (base 16) Fujant, Inc.
6305 Carpinteria Avenue
Carpinteria CA 93013-2901
US

00-07-14 (hex) Brightcom
000714 (base 16) Brightcom
6 Hanechoshet St.,

IL

00-06-F3 (hex) AcceLight Networks
0006F3 (base 16) AcceLight Networks
70 Abele Road, Building 1200
Pittsburgh PA 15017
US

00-06-FE (hex) Ambrado, Inc
0006FE (base 16) Ambrado, Inc
11301 W. President George Bush Fwy.
Richardson TX 75080
US

00-07-27 (hex) Zi Corporation (HK) Ltd.
000727 (base 16) Zi Corporation (HK) Ltd.
30/F, China Resources Building

HK

00-07-2E (hex) North Node AB
00072E (base 16) North Node AB
Skeppsloron 42

SE

00-06-9A (hex) e & Tel
00069A (base 16) e & Tel
100 Sejong-no Chongno-gu,

KR

00-06-99 (hex) Vida Design Co.
000699
(base 16) Vida Design Co.
10F, No. 278 Ho Ping E. Rd.,

TW

00-06-8D (hex) SEPATON, Inc.
00068D (base 16) SEPATON, Inc.
400 Nickerson Rd.
Marlborough MA 01752
US

00-06-53 (hex) Cisco Systems, Inc
000653 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-06-4F (hex) PRO-NETS Technology Corporation
00064F (base 16) PRO-NETS Technology Corporation
Pao-Chung Road,
Hsin Tien Taipei,
TW

00-06-51 (hex) Aspen Networks Inc.
000651 (base 16) Aspen Networks Inc.
3777 Stevens Creek Blvd
Santa Clara CA 95051
US

00-06-5C (hex) Malachite Technologies, Inc.
00065C (base 16) Malachite Technologies, Inc.

195 New Hampshire Avenue
Portsmouth NH 03801
US

00-06-42 (hex) Genetel Systems Inc.
000642 (base 16) Genetel Systems Inc.
Mockwoo B/D, 912 Walpyoung-Dong
302-852
KR

00-06-A2 (hex) Microtune, Inc.
0006A2 (base 16) Microtune,
Inc.
6440 Lusk Blvd., Suite D205
San Diego CA 92121
US

00-06-A6 (hex) Artistic Licence Engineering Ltd
0006A6 (base 16) Artistic Licence Engineering Ltd
24 Forward Drive
Harrow Middlesex HA3 8NT
GB

00-06-AA (hex) VT Miltope
0006AA (base 16) VT Miltope
4900 Pearl East Circle
Boulder CO 80301
US

00-06-57 (hex) Market Central, Inc.
000657 (base 16) Market Central, Inc.
500 Business Center Drive
Pittsburgh PA 15205-1333
US

00-06-97 (hex) R & D Center
000697 (base 16) R & D Center
5F, Seungwon B/D, 810-9
Seoul
KR

00-06-4A (hex) Honeywell Co., Ltd. (KOREA)
00064A (base 16) Honeywell Co., Ltd. (KOREA)
56, Chaam-dong, Chonan-city

KR

00-06-3F (hex) Everex Communications Inc.

00063F (base 16) Everex Communications Inc.
5020A Brandin Ct.
Fremont CA 94538
US

00-06-3D (hex) Microwave Data Systems Inc.
00063D (base 16) Microwave
Data Systems Inc.
175 Science Parkway
Rochester NY 14620
US

00-06-39 (hex) Newtec
000639 (base 16) Newtec
Laarstraat 5

BE

00-06-2F (hex) Pivotech Systems Inc.
00062F (base 16) Pivotech Systems Inc.
200 Centennial Ave.,
Piscataway NJ 08854
US

00-06-6A (hex) InfiniCon Systems, Inc.
00066A (base 16) InfiniCon Systems, Inc.
700 American Ave.
King of Prussia PA 19406
US

00-06-61 (hex) NIA Home Technologies Corp.
000661 (base 16) NIA Home Technologies Corp.
Innovation Incubator, NTHU,
Hsinchu 30013,
TW

00-06-6B (hex) Sysmex Corporation
00066B (base 16) Sysmex Corporation
4-4-4 Takatsukadai,
651-2271
JP

00-05-5A (hex) Power Dsine Ltd.
00055A (base 16) Power Dsine Ltd.
1 Hanagar St., P.O. Box 7220

IL

00-06-7D (hex) Takasago Ltd.
00067D (base 16) Takasago Ltd.
1-24-16 Mizonokuchi Takatsu-ku

JP

00-06-71 (hex) Softing
AG
000671 (base 16) Softing AG
Richard-Reitzner-Allee 6

DE

00-06-72 (hex) Netezza
000672 (base 16) Netezza
1671 Worcester Road
Framingham MA 01701
US

00-06-B8 (hex) Bandspeed Pty Ltd
0006B8 (base 16) Bandspeed Pty Ltd
Level 9, 5000 Collins Street

AU

00-06-BB (hex) ATI Technologies Inc.
0006BB (base 16) ATI Technologies Inc.
75 Tiverton Court

CA

00-06-BD (hex) BNTECHNOLOGY Co., Ltd.
0006BD (base 16) BNTECHNOLOGY Co., Ltd.
602 Youngshin Bldg. 238-8
Seoul
KR

00-06-C3 (hex) Schindler Elevator Ltd.
0006C3 (base 16) Schindler Elevator Ltd.
R&D-CO
Ebikon CH-6030
CH

00-06-B2 (hex) Linxtek Co.
0006B2 (base 16) Linxtek Co.
2F Kum-a B/D 31-3 Karak-dong,
138-160
KR

00-06-B6 (hex) Nir-Or Israel Ltd.
0006B6 (base 16) Nir-Or Israel Ltd.
11 Amal St.

IL

00-06-A3 (hex) Bitran Corporation
0006A3
(base 16) Bitran Corporation
2213 Mochida

JP

00-06-9F (hex) Kuokoa Networks
00069F (base 16) Kuokoa Networks
2901 Tasman Dr.
Santa Clara CA 95054
US

00-06-84 (hex) Biacore AB
000684 (base 16) Biacore AB
Software, Electronics and Optics

SE

00-06-82 (hex) Convedia
000682 (base 16) Convedia
4190 Still Creek Dr.
V5C 6C6
CA

00-05-D6 (hex) L-3 Linkabit
0005D6 (base 16) L-3 Linkabit
9890 Town Center Drive
San Diego CA 92121
US

00-05-DA (hex) Apex Automationstechnik
0005DA (base 16) Apex Automationstechnik
Vossenkamp 4

DE

00-05-C7 (hex) I/F-COM A/S
0005C7 (base 16) I/F-COM A/S
Ellegaardvej 36

DK

00-05-C6 (hex) Triz Communications
0005C6 (base 16) Triz Communications
Anwon Bldg. 7th Fl.
Seoul 150-010
KR

00-05-CC (hex) Sumtel Communications, Inc.
0005CC (base 16) Sumtel Communications, Inc.
1F,
No. 173, Gung Yuan Road,
Hsinchu City 30054
TW

00-05-E3 (hex) LightSand Communications, Inc.
0005E3 (base 16) LightSand Communications, Inc.
375 Los Coches St.
Milpitas CA 94539
US

00-05-ED (hex) Technikum Joanneum GmbH
0005ED (base 16) Technikum Joanneum GmbH
Alte Poststrasse 149

AT

00-05-EF (hex) ADOIR Digital Technology
0005EF (base 16) ADOIR Digital Technology
28 Fl, ZhaoFeng World Trade Bldg.
Shanghai 200050,
CN

00-05-E9 (hex) Unicess Network, Inc.
0005E9 (base 16) Unicess Network, Inc.
870 Dorothy Dr. #708
Richardson TX 75081
US

00-06-1E (hex) Maxan Systems
00061E (base 16) Maxan Systems
1-84, Woulam-dong

KR

00-06-22 (hex) Chung Fu Chen Yeh Enterprise Corp.
000622 (base 16) Chung Fu Chen Yeh Enterprise Corp.
2F No. 666 Jing Ping Road,

Taipei Hsien
TW

00-06-12 (hex) Accusys, Inc.
000612 (base 16) Accusys, Inc.
5F,
No. 38, Taiyuan St
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TW

00-06-09 (hex) Crossport Systems
000609 (base 16) Crossport Systems
10940 NE 33rd Place
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US

00-05-BB (hex) Myspace AB
0005BB (base 16) Myspace AB
Sveavagen 33

SE

00-05-A9 (hex) Princeton Networks, Inc.
0005A9 (base 16) Princeton Networks, Inc.
100 Century Center Ct. #100
San Jose CA 95112
US

00-05-AF (hex) InnoScan Computing A/S
0005AF (base 16) InnoScan Computing A/S
Soren Frichsvej 42R

DK

00-05-A1 (hex) Zenocom
0005A1 (base 16) Zenocom
No.402, 4th floor, Wongok Bldg.
Seoul
KR

00-06-16 (hex) Tel Net Co., Ltd.
000616 (base 16) Tel Net Co., Ltd.
3F BOF Bldg 730-15 Goje Song

KR

00-06-0D (hex) Wave7 Optics
00060D (base 16) Wave7 Optics

1075 Windward Ridge Pkwy.
Alpharetta GA 30005
US

00-CB-BD (hex) Cambridge Broadband Networks Group
00CBBD
(base 16) Cambridge Broadband Networks Group
1 Hammersmith Broadway
London W6 9DL
GB

00-05-CF (hex) Thunder River Technologies, Inc.
0005CF (base 16) Thunder River Technologies, Inc.
23 Corporate Plaza Ste. 250
Newport Beach CA 92660
US

00-06-36 (hex) Jedai Broadband Networks
000636 (base 16) Jedai Broadband Networks
331 Newman Springs Rd.
Red Bank NJ 07701
US

00-06-00 (hex) Toshiba Teli Corporation
000600 (base 16) Toshiba Teli Corporation
4-7-1 Asahigaoka, Hino-Shi,
Tokyo 191-0065
JP

00-05-E6 (hex) Egenera, Inc.
0005E6 (base 16) Egenera, Inc.
165 Forest St.
Marlboro MA 01752
US

00-05-A0 (hex) MOBILINE Kft.
0005A0 (base 16) MOBILINE Kft.
Lehel Utca 14
H-1134
HU

00-05-A6 (hex) Extron Electronics
0005A6 (base 16) Extron Electronics
1230 S. Lewis
Anahiem CA 92805
US

00-05-88 (hex) Sensoria Corp.

000588 (base 16) Sensoria
Corp.
15950 Bernardo Ctr. Dr.
San Diego CA 92127
US

00-05-8D (hex) Lynx Photonic Networks, Inc.
00058D (base 16) Lynx Photonic Networks, Inc.
13 Hamelaha St.

IL

00-05-8A (hex) Netcom Co., Ltd.
00058A (base 16) Netcom Co., Ltd.
1F, No. 7, Lane 242,
Taipei
TW

00-05-91 (hex) Active Silicon Ltd
000591 (base 16) Active Silicon Ltd
Pinewood Mews
Iver SL0 0NA
GB

00-05-93 (hex) Grammar Engine Inc.
000593 (base 16) Grammar Engine Inc.
921 Eastwind Drive
Westerville OH 43081
US

00-05-3A (hex) Willowglen Services Pte Ltd
00053A (base 16) Willowglen Services Pte Ltd
151 Lorong Chuan,
556741
SG

00-05-31 (hex) Cisco Systems, Inc
000531 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-05-39 (hex) A Brand New World in Sweden AB
000539 (base 16) A Brand New World in Sweden AB
Box 1223

SE

00-05-2A
(hex) Ikegami Tsushinki Co., Ltd.
00052A (base 16) Ikegami Tsushinki Co., Ltd.
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146-8567
JP

00-05-2D (hex) Zoltrix International Limited
00052D (base 16) Zoltrix International Limited
Room 701 Po Hing Centre,

HK

00-05-25 (hex) Puretek Industrial Co., Ltd.
000525 (base 16) Puretek Industrial Co., Ltd.
No. 14, 4 Flr. Lane 235

TW

00-05-41 (hex) Advanced Systems Co., Ltd.
000541 (base 16) Advanced Systems Co., Ltd.
2-9-7 Nishikicho,
190-0022
JP

00-05-45 (hex) Internet Photonics
000545 (base 16) Internet Photonics
1030 Broad St., 2nd Floor
Shrewsbury NJ 07702
US

00-05-64 (hex) Tsinghua Bitway Co., Ltd.
000564 (base 16) Tsinghua Bitway Co., Ltd.
12 Floor, Tower C, Corporate

CN

00-05-58 (hex) Synchronous, Inc.
000558 (base 16) Synchronous, Inc.
77 Las Colinas Lane
San Jose CA 95119
US

00-05-8F
(hex) CLCsoft co.
00058F (base 16) CLCsoft co.
Dept. of Electrical Engineering

KR

00-05-84 (hex) AbsoluteValue Systems, Inc.
000584 (base 16) AbsoluteValue Systems, Inc.
715-D North Dr.
Melbourne FL 32934
US

00-05-7A (hex) Overture Networks
00057A (base 16) Overture Networks
637 Davis Drive
Morrisville NC 27560
US

00-05-50 (hex) Vcomms Connect Limited
000550 (base 16) Vcomms Connect Limited
75 The Esplanade, Level 3
Wellington Mail Centre 5045 Wellington
NZ

00-04-F5 (hex) SnowShore Networks, Inc.
0004F5 (base 16) SnowShore Networks, Inc.
285 Billerica Road
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US

00-04-F2 (hex) Polycom
0004F2 (base 16) Polycom
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Canada V7P3P3
CA

00-04-F3 (hex) FS FORTH-SYSTEME GmbH
0004F3 (base 16) FS FORTH-SYSTEME GmbH
Küferstraße 8

DE

00-04-ED (hex) Billion Electric Co., Ltd.
0004ED (base 16) Billion
Electric Co., Ltd.
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TW

00-04-E7 (hex) Lightpointe Communications, Inc
0004E7 (base 16) Lightpointe Communications, Inc
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San Diego CA 92121
US

00-04-A6 (hex) SAF Tehnika Ltd.
0004A6 (base 16) SAF Tehnika Ltd.
91 Dzirnavu Str.,

LV

00-04-A8 (hex) Broadmax Technologies, Inc.
0004A8 (base 16) Broadmax Technologies, Inc.
180, Wai Yip Street,
HONG KONG
HK

00-04-A1 (hex) Pathway Connectivity
0004A1 (base 16) Pathway Connectivity
1439-17 Avenue SE
Calgary Alberta T2G 1J9
CA

00-04-A2 (hex) L.S.I. Japan Co., Ltd.
0004A2 (base 16) L.S.I. Japan Co., Ltd.
1-8-14 Sendagaya Shibuya-Ku
Tokyo 151-0051
JP

00-04-9B (hex) Cisco Systems, Inc
00049B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-04-F9 (hex) Xtera Communications, Inc.
0004F9
(base 16) Xtera Communications, Inc.
500 W Bethany Drive
Allen TX 75013
US

00-04-FA (hex) NBS Technologies Inc.
0004FA (base 16) NBS Technologies Inc.
703 Evans Avenue, Suite 400
Ontario M9C 5E9
CA

00-04-F8 (hex) QUALICABLE TV Industria E Com., Ltda
0004F8 (base 16) QUALICABLE TV Industria E Com., Ltda

Av. Joao Paulo Ablas, 308

BR

00-04-E6 (hex) Banyan Network Private Limited
0004E6 (base 16) Banyan Network Private Limited
443, 8th Floor, Guna Complex

IN

00-04-DE (hex) Cisco Systems, Inc
0004DE (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-04-E1 (hex) Infinior Microsystems
0004E1 (base 16) Infinior Microsystems
2F, Accufar Bldg, 234-10,
Seoul KOREA 138-220
KR

00-05-17 (hex) Shellcomm, Inc.
000517 (base 16) Shellcomm, Inc.
Rm #6122 ETRI TBI Center, 1,

KR

00-05-1C (hex) Xnet Technology Corp.
00051C
(base 16) Xnet Technology Corp.
9F-16, No. 12, Lane 609,

TW

00-05-12 (hex) Zebra Technologies Inc
000512 (base 16) Zebra Technologies Inc
475 Half Day Road
Lincolnshire IL 60069
US

00-04-C2 (hex) Magnipix, Inc.
0004C2 (base 16) Magnipix, Inc.
3539 St-Charles Blvd., Suite 212
CANADA H9H3C4
CA

00-05-03 (hex) ICONAG

000503 (base 16) ICONAG
AM Bahnhof 2

DE

00-04-CE (hex) Patria Ailon
0004CE (base 16) Patria Ailon
Naulakatu 3

FI

00-04-C7 (hex) NetMount
0004C7 (base 16) NetMount
P.O.B. 2325

IL

00-04-6A (hex) Navini Networks
00046A (base 16) Navini Networks
3605 E. Plano Pkwy,
Plano TX 75074
US

00-04-6B (hex) Palm Wireless, Inc.
00046B (base 16) Palm Wireless, Inc.
48933 Warm Springs Blvd.
Fremont CA 94539
US

00-04-72 (hex) Telelynx, Inc.
000472 (base 16) Telelynx, Inc.
3F-1, 66 Nankan
Rd.,
TAIWAN
TW

00-04-64 (hex) Pulse-Link Inc
000464 (base 16) Pulse-Link Inc
1934 Kellogg Avenue
Carlsbad CA 92008
US

00-04-65 (hex) i.s.t isdn-support technik GmbH
000465 (base 16) i.s.t isdn-support technik GmbH
Rhein Strasse 7E

DE

00-04-86 (hex) ITTC, University of Kansas
000486 (base 16) ITTC, University of Kansas
2335 Irving Hill Rd.
Lawrence KS 66045
US

00-04-8B (hex) Poscon Corporation
00048B (base 16) Poscon Corporation
#606 Ho-Dong, Nam Gu,
SOUTH KOREA
KR

00-04-84 (hex) Amann GmbH
000484 (base 16) Amann GmbH
Unteranger 6

DE

00-04-78 (hex) G. Star Technology Corporation
000478 (base 16) G. Star Technology Corporation
4th Floor, No. 118, Sector 2
Taipei City Taipei City TAIWAN
TW

00-04-7A (hex) AXXESSIT ASA
00047A (base 16) AXXESSIT ASA
AXXESSIT ASA HALDEN

NO

00-04-4E (hex) Cisco Systems, Inc
00044E
(base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-04-52 (hex) RocketLogix, Inc.
000452 (base 16) RocketLogix, Inc.
6504 International Parkway
Plano TX 75093
US

00-04-42 (hex) NACT
000442 (base 16) NACT
191 W. 5200 N.
Provo UT 84604
US

00-04-45 (hex) LMS Skalar Instruments GmbH
000445 (base 16) LMS Skalar Instruments GmbH
Willi-Eichler-Str 11

DE

00-03-FD (hex) Cisco Systems, Inc
0003FD (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-03-F9 (hex) Pleiades Communications, Inc.
0003F9 (base 16) Pleiades Communications, Inc.
2830 Market Loop #104
South Lake TX 76092
US

00-03-FE (hex) Cisco Systems, Inc
0003FE (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-04-99 (hex) Chino Corporation
000499 (base 16) Chino Corporation
1 Mori, Fujioka City,

Zip: 375-8505
JP

00-04-8E (hex) Ohm Tech Labs, Inc.
00048E (base 16) Ohm Tech Labs, Inc.
141 Lanza Ave., B-12
Garfield NJ 07026
US

00-04-8D (hex) Teo Technologies, Inc
00048D (base 16) Teo Technologies, Inc
11609 49th Place West
Mukilteo WA 98275
US

00-04-90 (hex) Optical Access
000490 (base 16) Optical Access
P.O. Box 114

IL

00-04-27 (hex) Cisco Systems, Inc
000427 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-04-20 (hex) Slim Devices, Inc.
000420 (base 16) Slim Devices, Inc.
12 South First St.
San Jose CA 95113
US

00-04-11 (hex) Inkra Networks, Inc.
000411 (base 16) Inkra Networks, Inc.
40971 Encyclopedia Circle
Fremont CA 94538
US

00-04-3D (hex) INDEL AG
00043D (base 16) INDEL AG
Tufiwis 26

CH

00-04-3B (hex) Lava Computer Mfg., Inc.
00043B (base 16) Lava Computer Mfg.,
Inc.
2 Vulcan St.
CANADA M9W-1L2
CA

00-04-31 (hex) GlobalStreams, Inc.
000431 (base 16) GlobalStreams, Inc.
2882 Prospect Park Drive
Rancho Cordova CA 95670
US

00-04-10 (hex) Spinnaker Networks, Inc.
000410 (base 16) Spinnaker Networks, Inc.
107 Gamma Drive
Pittsburgh PA 15238
US

00-04-12 (hex) WaveSmith Networks, Inc.
000412 (base 16) WaveSmith Networks, Inc.
40 Nagog Park

Acton MA 01720-3425
US

00-04-5E (hex) PolyTrax Information Technology AG
00045E (base 16) PolyTrax Information Technology AG
Martin-Kollar - Str. 5

DE

00-03-7B (hex) IDEC IZUMI Corporation
00037B (base 16) IDEC IZUMI Corporation
7-31, Nishimiyahara

JP

00-03-67 (hex) Jasmine Networks, Inc.
000367 (base 16) Jasmine Networks, Inc.
1940 Zanker Road
San Jose CA 95112
US

00-03-6A (hex) Mainnet, Ltd.
00036A (base 16) Mainnet, Ltd.
P.O. Box 2324

IL

00-03-6B (hex) Cisco Systems, Inc
00036B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-03-6C (hex) Cisco Systems, Inc
00036C (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-03-C1 (hex) Packet Dynamics Ltd
0003C1 (base 16) Packet Dynamics Ltd
2 Buckstane Park
UK EH10 GPA
GB

00-03-C4 (hex) Tomra Systems ASA
0003C4 (base 16) Tomra Systems ASA

Drengsrudhagen 2

NO

00-03-C5 (hex) Mobotix AG
0003C5 (base 16) Mobotix AG
Wingertsweilerhof 6

DE

00-03-BF (hex) Centerpoint Broadband Technologies, Inc.
0003BF (base 16) Centerpoint Broadband Technologies, Inc.
1741 Technology Drive,
San Jose CA 95110-1310
US

00-03-B9 (hex) Hualong Telecom Co., Ltd.
0003B9 (base 16) Hualong Telecom Co., Ltd.
9 Guanghua St.
P.R.
CN

00-03-80 (hex) SSH Communications Security Corp.
000380
(base 16) SSH Communications Security Corp.
Fredrikinkatu 42

FI

00-03-82 (hex) A-One Co., Ltd.
000382 (base 16) A-One Co., Ltd.
6-9-20, Shimoichiba-cho,

JP

00-03-7A (hex) Taiyo Yuden Co., Ltd.
00037A (base 16) Taiyo Yuden Co., Ltd.
8-1 Sakae-Cho

JP

00-03-75 (hex) NetMedia, Inc.
000375 (base 16) NetMedia, Inc.
10940 N. Stallard Place
Tuscon AZ 85737
US

00-03-99 (hex) Dongju Informations & Communications Co., Ltd.

000399 (base 16) Dongju Informations & Communications Co., Ltd.
#305, Eunsuk Bldg. Samsung-dong
Republic of KOREA
KR

00-03-91 (hex) Advanced Digital Broadcast, Ltd.
000391 (base 16) Advanced Digital Broadcast, Ltd.
8F, 145 Chung Shan N. Rd. Sec. 2,
TAIWAN TAIWAN R.O.C.
TW

00-03-8F (hex) Weinschel Corporation
00038F (base 16) Weinschel Corporation
5305 Spectrum Drive
Frederick MD 21703
US

00-03-84 (hex) AETA
000384
(base 16) AETA
Kepler 6
Le Plessis Robinson 92350
FR

00-03-87 (hex) Blaze Network Products
000387 (base 16) Blaze Network Products
5180 Hacienda Drive
Dublin CA 94568
US

00-03-81 (hex) Ingenico International
000381 (base 16) Ingenico International
1/9 Apollo Street

AU

00-03-BA (hex) Oracle Corporation
0003BA (base 16) Oracle Corporation
17 Network Circle
Menlo Park CA 95025
US

00-03-AF (hex) Paragea Communications
0003AF (base 16) Paragea Communications
207 Perry Parkway
Gaithersburg MD 20877
US

00-03-AC (hex) Fronius Schweissmaschinen
0003AC (base 16) Fronius Schweissmaschinen
Günter Fronius-Straße 1

AT

00-03-DE (hex) OTC Wireless
0003DE (base 16) OTC Wireless
602 Charlot Ave.
San Jose CA 95131
US

00-03-0B (hex) Hunter Technology, Inc.
00030B (base 16) Hunter Technology, Inc.
1408, Woolim e-biz Center,
Seoul
135-270
KR

00-03-C9 (hex) TECOM Co., Ltd.
0003C9 (base 16) TECOM Co., Ltd.
23, R&D Road 2
Hsin-Chu
TW

00-03-F5 (hex) Chip2Chip
0003F5 (base 16) Chip2Chip
2249 Zanker Rd.
San Jose CA 95131
US

00-03-30 (hex) Imagenics, Co., Ltd.
000330 (base 16) Imagenics, Co., Ltd.
1-31-5 Kokuryo-Cho
182-0022
JP

00-03-28 (hex) Mace Group, Inc.
000328 (base 16) Mace Group, Inc.
5101 Commerce Dr.
Baldwin Park CA 91706
US

00-03-2B (hex) GAI Datenfunksysteme GmbH
00032B (base 16) GAI Datenfunksysteme GmbH
Riedleparkstraße 28
Friedrichshafen 88045
DE

00-03-2C (hex) ABB Switzerland Ltd
00032C (base 16) ABB Switzerland Ltd
Dept. ATEP
Austrasse
CH

00-03-23 (hex) Cornet Technology, Inc.
000323 (base 16) Cornet Technology, Inc.
6800 Versar Center, Suite 216
Springfield VA 22151-4147
US

00-03-13 (hex) Access Media SPA
000313
(base 16) Access Media SPA
Via delle Industrie, 4/g
24035 LALLIO (BG)
IT

00-03-10 (hex) E-Globaledge Corporation
000310 (base 16) E-Globaledge Corporation
7F Nakameguro GT Tower
Meduro-ku, Tokyo 153-0051
JP

00-03-0A (hex) Argus Technologies
00030A (base 16) Argus Technologies
8F, No. 183, Kang Chien Rd.
114
TW

00-03-04 (hex) Pacific Broadband Communications
000304 (base 16) Pacific Broadband Communications
3103 North First St.
San Jose CA 95134
US

00-03-01 (hex) EXFO
000301 (base 16) EXFO
400 Godin Avenue
Quebec G1M 2K2
CA

00-02-FD (hex) Cisco Systems, Inc
0002FD (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568

US

00-03-40 (hex) Floware Wireless Systems, Ltd.
000340 (base 16) Floware Wireless Systems, Ltd.
28 Hacharoshet Steet
60250
IL

00-01-EC (hex) Ericsson Group
0001EC (base 16) Ericsson Group
Telefonaktiebolaget

SE

00-03-33 (hex) Digitel Co., Ltd.
000333 (base 16) Digitel Co., Ltd.
835-6, Yoksam-dong

KR

00-03-38 (hex) Oak Technology
000338 (base 16) Oak Technology
139 Kifer Court
Sunnyvale CA 94086-5160
US

00-03-39 (hex) Eurologic Systems, Ltd.
000339 (base 16) Eurologic Systems, Ltd.
Clonshaugh Industrial Estate
Clonshaugh Dublin 17
IE

00-03-31 (hex) Cisco Systems, Inc
000331 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-03-00 (hex) Barracuda Networks, Inc.
000300 (base 16) Barracuda Networks, Inc.
3175 S. Winchester Blvd
Campbell CA 95008
US

00-02-F9 (hex) MIMOS Berhad
0002F9 (base 16) MIMOS Berhad
Technology Park Malaysia

Kuala Lumpur 57000
MY

00-02-F3 (hex) Media Serve Co., Ltd.
0002F3 (base 16) Media Serve Co., Ltd.
Dongsung Bldg. #17-8, Youido-dong,
Seoul
KR

00-02-EA
(hex) Focus Enhancements
0002EA (base 16) Focus Enhancements
1370 Dell Ave.
Campbell CA 95008
US

00-02-E7 (hex) CAB GmbH & Co KG
0002E7 (base 16) CAB GmbH & Co KG
Wilhelm-Schickard-Str 14

DE

00-03-1E (hex) Optranet, Inc.
00031E (base 16) Optranet, Inc.
7041 Koll Center Pkwy
Pleasanton CA 94566
US

00-03-15 (hex) Cidco Incorporated
000315 (base 16) Cidco Incorporated
220 Cochrane Circle
Morgan Hill CA 95037
US

00-03-19 (hex) Infineon AG
000319 (base 16) Infineon AG
P.O. Box 800949

DE

00-03-4F (hex) Sur-Gard Security
00034F (base 16) Sur-Gard Security
401 Magnetic Drive
Ontario M3J 3H9
CA

00-03-4A (hex) RIAS Corporation
00034A (base 16) RIAS Corporation

46600 Fremont Blvd.
Fremont CA 94538
US

00-02-DF (hex) Net Com Systems, Inc.
0002DF (base 16) Net Com Systems, Inc.
15-3, Yoido-Dong,
Seoul
KR

00-02-DB
(hex) NETSEC
0002DB (base 16) NETSEC
13505 Dulles Technology Dr., Ste. 1
Herdon VA 20171
US

00-03-5A (hex) Photron Limited
00035A (base 16) Photron Limited
1-1-8, Fujimi,
Chiyoda-ku 102-0071
JP

00-03-53 (hex) Mitac, Inc.
000353 (base 16) Mitac, Inc.
No. 2, Chung-Hsiao Street
Chitu Keelung,
TW

00-02-CF (hex) ZyGate Communications, Inc.
0002CF (base 16) ZyGate Communications, Inc.
2F, No.48, Lung-Chin Road

TW

00-02-D1 (hex) Vivotek, Inc.
0002D1 (base 16) Vivotek, Inc.
5F-1, 168-1, Lien-Chen Rd,

TW

00-02-B6 (hex) Acrosser Technology Co., Ltd.
0002B6 (base 16) Acrosser Technology Co., Ltd.
No. 116-2 Guang-Fu Rd.
Taipei Taipei R.O.C.
TW

00-02-B1 (hex) Anritsu, Ltd.

0002B1 (base 16) Anritsu, Ltd.
Rutherford Close
UNITED KINGDOM
GB

00-02-AD (hex) HOYA Corporation
0002AD (base 16) HOYA Corporation
2-7-5
Naka-Ochiai, Shinjuku-ku,
Tokyo 161-8525
JP

00-02-AE (hex) Scannex Electronics Ltd.
0002AE (base 16) Scannex Electronics Ltd.
Unit 8 English Business Park
Hove BN3 7ET
GB

00-02-A2 (hex) Hilscher GmbH
0002A2 (base 16) Hilscher GmbH
Rheinstraße 15

DE

00-02-C2 (hex) Net Vision Telecom
0002C2 (base 16) Net Vision Telecom
#206 Software Support Center
305-343 Rep. of Korea
KR

00-02-BD (hex) Bionet Co., Ltd.
0002BD (base 16) Bionet Co., Ltd.
3F, Medison Venture Tower,
KOREA
KR

00-02-BE (hex) Totsu Engineering, Inc.
0002BE (base 16) Totsu Engineering, Inc.
5-16-20 Roppongi Minato-ku
Tokyo 106-8551
JP

00-02-B9 (hex) Cisco Systems, Inc
0002B9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-02-BA (hex) Cisco Systems, Inc
0002BA (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-02-54
(hex) WorldGate
000254 (base 16) WorldGate
3190 Tremont Avenue
Trevose PA 19053
US

00-02-4B (hex) Cisco Systems, Inc
00024B (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-02-4D (hex) Mannesman Dematic Colby Pty. Ltd.
00024D (base 16) Mannesman Dematic Colby Pty. Ltd.
24 Narabang Way

AU

00-02-50 (hex) Geyser Networks, Inc.
000250 (base 16) Geyser Networks, Inc.
535 Del Rey Avenue
Sunnyvale CA 94086
US

00-02-5A (hex) Catena Networks
00025A (base 16) Catena Networks
307 Legget Drive
Canada K2K 3C8
CA

00-02-6E (hex) NeGeN Access, Inc.
00026E (base 16) NeGeN Access, Inc.
33 Boston Post Rd. West
Marlborough MA 01752
US

00-02-3B (hex) Ericsson
00023B (base 16) Ericsson
250 Holger Way
SAN JOSE CA 95134
US

00-02-39 (hex) Visicom
000239 (base 16) Visicom
10052 Mesa Ridge Ct.
San
Diego CA 92121
US

00-02-33 (hex) Mantra Communications, Inc.
000233 (base 16) Mantra Communications, Inc.
12850 Middlebrook Road
Germantown MD 20874
US

00-02-48 (hex) Pilz GmbH & Co.
000248 (base 16) Pilz GmbH & Co.
Felix-Wankel-Straße 2

DE

00-02-4C (hex) SiByte, Inc.
00024C (base 16) SiByte, Inc.
2805 Bowers Avenue
Santa Clara CA 95051-0917
US

00-02-40 (hex) Seedek Co., Ltd.
000240 (base 16) Seedek Co., Ltd.
#709, 1638-32, Sammo
KOREA
KR

00-02-70 (hex) Crewave Co., Ltd.
000270 (base 16) Crewave Co., Ltd.
F7, Pureun Bldg., 28-1
Seoul KOREA 137-030
KR

00-02-9A (hex) Storage Apps
00029A (base 16) Storage Apps
3 Princess Road
Lawrenceville NJ 08648
US

00-02-8F (hex) Globetek, Inc.
00028F (base 16) Globetek, Inc.
1607 Akron Peninsula Rd.
Akron OH 44313-5190

US

00-02-87 (hex) Adapcom
000287 (base 16) Adapcom
172-A
Component Drive
San Jose CA 95131
US

00-02-81 (hex) Madge Ltd.
000281 (base 16) Madge Ltd.
Madge House
Maindenhead Berkshire SL6 2HP
GB

00-01-8A (hex) ROI COMPUTER AG
00018A (base 16) ROI COMPUTER AG
Werner-von-Siemens-Str. 1

DE

00-01-92 (hex) Texas Digital Systems
000192 (base 16) Texas Digital Systems
400 Technology Parkway
College Station TX 77845
US

00-01-82 (hex) DICA TECHNOLOGIES AG
000182 (base 16) DICA TECHNOLOGIES AG
Rotherstr, 19

DE

00-01-89 (hex) Refraction Technology, Inc.
000189 (base 16) Refraction Technology, Inc.
2626 Lombardy Lane - Ste. #105
Dallas TX 75220
US

00-01-93 (hex) Hanbyul Telecom Co., Ltd.
000193 (base 16) Hanbyul Telecom Co., Ltd.
5th Fl. Oksan Bldg.
KOREA
KR

00-01-D9 (hex) Sigma, Inc.
0001D9 (base 16) Sigma, Inc.
32-3 Seijyo 9 Chome

JP

00-01-C5 (hex) Simpler Networks
0001C5
(base 16) Simpler Networks
555 Dr Frederick Philips
H4M 2X4
CA

00-01-C9 (hex) Cisco Systems, Inc
0001C9 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-01-C4 (hex) NeoWave, Inc.
0001C4 (base 16) NeoWave, Inc.
10th KRIHS Bldg. 1591-6
SOUTH KOREA
KR

00-02-00 (hex) Net & Sys Co., Ltd.
000200 (base 16) Net & Sys Co., Ltd.
Kuro Hitech Industrial Complex 304,
KOREA
KR

00-01-E4 (hex) Sitera, Inc.
0001E4 (base 16) Sitera, Inc.
1820 Lefthand Circle
Longmont CO 80501
US

00-01-F3 (hex) QPS, Inc.
0001F3 (base 16) QPS, Inc.
8015 E. Crystal Drive
Anaheim CA 92807
US

00-01-E3 (hex) Siemens AG
0001E3 (base 16) Siemens AG
Schlavenhorst 88

DE

00-01-EB (hex) C-COM Corporation
0001EB (base 16) C-COM Corporation

3F, No. 48, Park Ave. II SBIP
Hsinchu Taiwan Hsinchu Taiwan R.O.C.
TW

00-01-F2
(hex) Mark of the Unicorn, Inc.
0001F2 (base 16) Mark of the Unicorn, Inc.
1280 Massachusetts Ave.
Cambridge MA 02138
US

00-01-D8 (hex) Teltronics, Inc.
0001D8 (base 16) Teltronics, Inc.
4125 Keller Springs Road
Addison TX 25001
US

00-02-05 (hex) Hitachi Denshi, Ltd.
000205 (base 16) Hitachi Denshi, Ltd.
32 Miyaki-cho Kodaira-shi
JAPAN 187-8511
JP

00-01-F7 (hex) Image Display Systems, Inc.
0001F7 (base 16) Image Display Systems, Inc.
46560 Fremont Blvd.
Fremont CA 94538
US

00-01-AB (hex) Main Street Networks
0001AB (base 16) Main Street Networks
4030 Moorpark Ave.
San Jose CA 95117-1849
US

00-01-AF (hex) Artesyn Embedded Technologies
0001AF (base 16) Artesyn Embedded Technologies
2900 S. Diablo Way
Tempe AZ 85282
US

00-02-2A (hex) Asound Electronic
00022A (base 16) Asound Electronic
Xianxi Industries Zone Changan Town

CN

00-02-1B

(hex) Kollmorgen-Servotronix
00021B (base 16) Kollmorgen-Servotronix
POB 3919, Petach Tikya
49130
IL

00-02-1E (hex) SIMTEL S.R.L.
00021E (base 16) SIMTEL S.R.L.
Via Bonifacio Lupi, 25

IT

00-02-21 (hex) DSP Application, Ltd.
000221 (base 16) DSP Application, Ltd.
12F-12, No. 79, Sec. 1 Hsin Tai Wu Rd.
TAIWAN
TW

00-02-15 (hex) Cotas Computer Technology A/B
000215 (base 16) Cotas Computer Technology A/B
Paludan-Mullers Vej 82

DK

00-01-C1 (hex) Vitesse Semiconductor Corporation
0001C1 (base 16) Vitesse Semiconductor Corporation
Hoerkaer 18

DK

00-01-B6 (hex) SAEJIN T&M Co., Ltd.
0001B6 (base 16) SAEJIN T&M Co., Ltd.
2nd Fl., Saejin Bldg., 689
KOREA
KR

00-01-45 (hex) WINSYSTEMS, INC.
000145 (base 16) WINSYSTEMS, INC.
715 Stadium Drive
Arlington TX 76011
US

00-01-37 (hex) IT Farm Corporation
000137
(base 16) IT Farm Corporation
Asashiseimei Fuchu Bldg. 11F
183-0055
JP

00-01-33 (hex) KYOWA Electronic Instruments C
000133 (base 16) KYOWA Electronic Instruments C
3-5-1, Cyofugaoka
Cyofu Tokyo
JP

00-01-3C (hex) TIW SYSTEMS
00013C (base 16) TIW SYSTEMS
2211 Lawson Lane
Santa Clara CA 95054
US

00-01-4C (hex) Berkeley Process Control
00014C (base 16) Berkeley Process Control
4124 Lakeside Dr
Richmond CA 94806
US

00-30-F5 (hex) Wild Lab. Ltd.
0030F5 (base 16) Wild Lab. Ltd.
1-33-17-604 Harayama
Urawa City Saitama prif. 336-0931
JP

00-01-A3 (hex) GENESYS LOGIC, INC.
0001A3 (base 16) GENESYS LOGIC, INC.
10F, No. 11, Ln.3.,

TW

00-01-8C (hex) Mega Vision
00018C (base 16) Mega Vision
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Goleta CA 93117
US

00-01-8F (hex) Kenetec, Inc.
00018F (base 16) Kenetec, Inc.
115 Hurley Road
Oxford CT 06748
US

00-01-5D
(hex) Oracle Corporation
00015D (base 16) Oracle Corporation
500 Oracle Parkway
Redwood Shores CA 94065

US

00-01-73 (hex) AMCC
000173 (base 16) AMCC
6290 Sequence Drive
San Diego CA 92121
US

00-01-6C (hex) FOXCONN
00016C (base 16) FOXCONN
105 S Puente St.
Brea CA 92821
US

00-01-75 (hex) Radiant Communications Corp.
000175 (base 16) Radiant Communications Corp.
5001 Hadley Road
South Plainfield NJ 07080
US

00-01-5C (hex) CADANT INC.
00015C (base 16) CADANT INC.
4343 Commerce Court - Ste. #207
Lisle IL 60532
US

00-01-3D (hex) RiscStation Ltd.
00013D (base 16) RiscStation Ltd.
168 Elliott Street
UNITED KINGDOM
GB

00-01-43 (hex) Cisco Systems, Inc
000143 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-01-4B (hex) Ennovate Networks, Inc.
00014B (base 16) Ennovate Networks, Inc.
60
Codman Hill Road
Boxborough MA 01719
US

00-01-20 (hex) OSCILLOQUARTZ S.A.
000120 (base 16) OSCILLOQUARTZ S.A.
Rue Des Brevards 16

2002 Neuchatel
CH

00-01-27 (hex) OPEN Networks Pty Ltd
000127 (base 16) OPEN Networks Pty Ltd
Level 5, 342 Flinders Street
Melbourne VIC 3000
AU

00-01-04 (hex) DVICO Co., Ltd.
000104 (base 16) DVICO Co., Ltd.
Kookmin Card B/D 6F 267-2
Sungnam-si Kyungki-do 463-050
KR

00-01-7B (hex) Heidelberger Druckmaschinen AG
00017B (base 16) Heidelberger Druckmaschinen AG
Kurfürsten-Anlage 52-60

DE

00-01-A5 (hex) Nextcomm, Inc.
0001A5 (base 16) Nextcomm, Inc.
12413 Willows Road NE - Ste. #210
Kirkland WA 98034
US

00-01-90 (hex) SMK-M
000190 (base 16) SMK-M
1055 Tierra Del Rey
Chula Vista CA 91910
US

00-02-9C (hex) 3COM
00029C (base 16) 3COM
405 SPRING HILL ROAD
SHARON NH 03458
US

00-B0-19
(hex) UTC CCS
00B019 (base 16) UTC CCS
791 Commerce Blvd
Boca Raton FL 33497
US

00-B0-C7 (hex) Tellabs Operations, Inc.
00B0C7 (base 16) Tellabs Operations, Inc.

One Tellabs Center
Naperville IL 60563
US

00-01-0E (hex) Bri-Link Technologies Co., Ltd
00010E (base 16) Bri-Link Technologies Co., Ltd
2F, No. 63, Chow-Tze Street
Taipei 114
TW

00-01-06 (hex) Tews Datentechnik GmbH
000106 (base 16) Tews Datentechnik GmbH
Am Bahnhof 7
25469 Halstenbek
DE

00-01-09 (hex) Nagano Japan Radio Co., Ltd.
000109 (base 16) Nagano Japan Radio Co., Ltd.
Shimohigano 1163, Inasato-machi
Nagano 381-2288
JP

00-01-69 (hex) Celestix Networks Pte Ltd.
000169 (base 16) Celestix Networks Pte Ltd.
18 Tannery Lane #05-03
SINGAPORE 347780
SG

00-01-6B (hex) LightChip, Inc.
00016B (base 16) LightChip, Inc.
5 Industrial Way
Salem NH 03079
US

00-B0-86
(hex) LocSoft Limited
00B086 (base 16) LocSoft Limited
7 Bright Street
Clitheroe Lancashire BB7 1NW
GB

00-30-A2 (hex) Lightner Engineering
0030A2 (base 16) Lightner Engineering
8551 La Jolla Shores Dr
La Jolla CA 92037
US

00-30-42 (hex) DeTeWe-Deutsche Telephonwerke

003042 (base 16) DeTeWe-Deutsche Telephonwerke
Zeughofstrasse 1
D-10997 Berlin
DE

00-30-37 (hex) Packard Bell Nec Services
003037 (base 16) Packard Bell Nec Services
299 avenue Patton, BP 645
49006 Angers Cedex 01
FR

00-30-57 (hex) QTelNet, Inc.
003057 (base 16) QTelNet, Inc.
400 - 3115 12th Street NE
Calgary Alberta T2E 7J2
CA

00-30-FC (hex) Terawave Communications, Inc.
0030FC (base 16) Terawave Communications, Inc.
30695 Huntwood Avenue
Hayward CA 94544
US

00-B0-2A (hex) ORSYS GmbH
00B02A (base 16) ORSYS GmbH
Am Stadtgraben 25
D-88677 Markdorf
DE

00-B0-69 (hex) Honewell
Oy
00B069 (base 16) Honewell Oy
P.O. Box 168, FIN-78201

FI

00-B0-C2 (hex) Cisco Systems, Inc
00B0C2 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-B0-3B (hex) HiQ Networks
00B03B (base 16) HiQ Networks
2475 Augustine Drive
Santa Clara CA 95054
US

00-30-46 (hex) Controlled Electronic Manageme
003046 (base 16) Controlled Electronic Manageme
Unit 4 Ravenhill Business Park
Belfast
IE

00-30-75 (hex) ADTECH
003075 (base 16) ADTECH
RUE DU VAL ST LAMBERT 191 / i
SERAING 4100
BE

00-30-98 (hex) Global Converging Technologies
003098 (base 16) Global Converging Technologies
1800 Preston Park Blvd.
Plano TX 75093
US

00-30-0D (hex) MMC Technology, Inc.
00300D (base 16) MMC Technology, Inc.
#1502, Seoul Venture Town, Aju Bldg
Seoul 135-080
KR

00-30-C2 (hex) COMONE
0030C2 (base 16) COMONE
Parc
De Marticot
33610 Cestas
FR

00-30-F3 (hex) At Work Computers
0030F3 (base 16) At Work Computers
P.O. Box 947
Corvallis OR 97339
US

00-30-CC (hex) Tenor Networks, Inc.
0030CC (base 16) Tenor Networks, Inc.
100 Nagog Park
Acton MA 01720-3409
US

00-30-B0 (hex) Convergenet Technologies
0030B0 (base 16) Convergenet Technologies
2222 Trade Zone Boulevard
San Jose CA 95131
US

00-30-86 (hex) Transistor Devices, Inc.
003086 (base 16) Transistor Devices, Inc.
36A Newburgh Road
Hackettstown NJ 07840
US

00-30-EB (hex) TURBONET COMMUNICATIONS, INC.
0030EB (base 16) TURBONET COMMUNICATIONS, INC.
19F-1, NO. 171, SUNG-TEH ROAD
TAIPEI
TW

00-30-A1 (hex) WEBGATE Inc.
0030A1 (base 16) WEBGATE Inc.
4F, Pika Bldg., 894-20, Hoyke 2-dong
Anyang-Si Kyunggi-Do
KR

00-30-6A (hex) PENTA MEDIA CO., LTD.
00306A (base 16) PENTA MEDIA CO., LTD.
E-504
Bundang Technopark,151
Seongnam Gyeonggi-do
KR

00-30-6F (hex) SEYEON TECH. CO., LTD.
00306F (base 16) SEYEON TECH. CO., LTD.
NAMCHEON BLDG. 6F,
KOREA 135-280
KR

00-30-3D (hex) IVA CORPORATION
00303D (base 16) IVA CORPORATION
142 NORTH RD STE R
SUDBURY MA 01776
US

00-30-53 (hex) Basler AG
003053 (base 16) Basler AG
An Der Strusbek 60-62
22926 Ahrensburg
DE

00-30-D2 (hex) WIN TECHNOLOGIES, CO., LTD.
0030D2 (base 16) WIN TECHNOLOGIES, CO., LTD.
4F-6, No. 81, Sec. 1
Taipei

TW

00-30-97 (hex) AB Regin
003097 (base 16) AB Regin
Box 366
SE-26123 Landskrona
SE

00-30-DC (hex) RIGHTECH CORPORATION
0030DC (base 16) RIGHTECH CORPORATION
4F, NO. 351, CHUNG-SHUN RD.
TAIWAN TAIWAN R.O.C.
TW

00-30-25 (hex) CHECKOUT COMPUTER SYSTEMS, LTD
003025 (base 16) CHECKOUT COMPUTER SYSTEMS, LTD
TOWNSEND FARM ROAD
UNITED KINGDOM
GB

00-30-C6
(hex) CONTROL SOLUTIONS, INC.
0030C6 (base 16) CONTROL SOLUTIONS, INC.
201 85TH AVENUE NW
MINNEAPOLIS MN 55433
US

00-30-E3 (hex) SEDONA NETWORKS CORP.
0030E3 (base 16) SEDONA NETWORKS CORP.
10A HEARST WAY
CANADA K2L 2P4
CA

00-30-BF (hex) MULTIDATA GMBH
0030BF (base 16) MULTIDATA GMBH
Dieburger Str. 96a

DE

00-30-12 (hex) DIGITAL ENGINEERING LTD.
003012 (base 16) DIGITAL ENGINEERING LTD.
2 TRENCH ROAD, MALLUSK
NORTHERN
IE

00-D0-0F (hex) SPEECH DESIGN GMBH
00D00F (base 16) SPEECH DESIGN GMBH
INDUSTRIESTR. 1

DE

00-30-58 (hex) API MOTION
003058 (base 16) API MOTION
45 HAZELWOOD DRIVE
AMHERST NY 14228
US

00-30-A6 (hex) VIANET TECHNOLOGIES, LTD.
0030A6 (base 16) VIANET TECHNOLOGIES, LTD.
8 HACHARASH STREET

IL

00-30-F4 (hex) STARDOT TECHNOLOGIES
0030F4 (base 16) STARDOT TECHNOLOGIES
6820-H ORANGE THORPE
AVE.
BUENA PARK CA 90620
US

00-30-19 (hex) Cisco Systems, Inc
003019 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-30-76 (hex) Akamba Corporation
003076 (base 16) Akamba Corporation
15595 Los Gatos Blvd.
Los Gatos CA 95032
US

00-30-EC (hex) BORGARDT
0030EC (base 16) BORGARDT
DIESELSTR. 15

DE

00-30-34 (hex) SET ENGINEERING
003034 (base 16) SET ENGINEERING
15750 VINEYARD BLVD. STE. #100
MORGAN HILL CA 95037
US

00-30-4A (hex) Fraunhofer IPMS
00304A (base 16) Fraunhofer IPMS

Maria-Reiche-Strasse 2
Dresden 01109
DE

00-30-8D (hex) Pinnacle Systems, Inc.
00308D (base 16) Pinnacle Systems, Inc.
Frankfurter Str. 3c
D-38122 Braunschweig
DE

00-30-F6 (hex) SECURELOGIX CORPORATION
0030F6 (base 16) SECURELOGIX CORPORATION
13750 SAN PEDRO
SAN ANTONIO TX 78232
US

00-30-D6 (hex) MSC VERTRIEBS GMBH
0030D6
(base 16) MSC VERTRIEBS GMBH
INDUSTRIESTR. 16

DE

00-30-41 (hex) SAEJIN T & M CO., LTD.
003041 (base 16) SAEJIN T & M CO., LTD.
2ND FL., SAEJIN BLDG. 689
135-230 KOREA
KR

00-30-8C (hex) Quantum Corporation
00308C (base 16) Quantum Corporation
10125 Federal Drive
Colorado Springs CO 80908
US

00-30-3C (hex) ONNTO CORP.
00303C (base 16) ONNTO CORP.
12F-2, NO. 161
TAIWAN TAIWAN R.O.C.
TW

00-30-24 (hex) Cisco Systems, Inc
003024 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-D0-CB (hex) DASAN CO., LTD.

00D0CB (base 16) DASAN CO., LTD.
DASAN Tower 7F, 49 Daewangpangyo-ro644beon-gil
Seonggnam-Si Gyeoenggi-do 463-4000
KR

00-D0-19 (hex) DAINIPPON SCREEN CORPORATE
00D019 (base 16) DAINIPPON SCREEN CORPORATE
REPRESENTATIVES OF AMERICA,INC
IRVINE CA 92614
US

00-30-D8 (hex) SITEK
0030D8 (base 16) SITEK
VIA
MONTE FIORINO 9

IT

00-30-16 (hex) ISHIDA CO., LTD.
003016 (base 16) ISHIDA CO., LTD.
959-1 SHIMOMAGARI

JP

00-30-5F (hex) Hasselblad
00305F (base 16) Hasselblad
Hejrevej 30
Copenhagen NV DK-2400
DK

00-D0-13 (hex) PRIMEX AEROSPACE COMPANY
00D013 (base 16) PRIMEX AEROSPACE COMPANY
P.O. BOX 97009
REDMOND WA 98073-9709
US

00-D0-A3 (hex) VOCAL DATA, INC.
00D0A3 (base 16) VOCAL DATA, INC.
1701 N GREENVILLE #304
RICHARDSON TX 75081
US

00-D0-BF (hex) PIVOTAL TECHNOLOGIES
00D0BF (base 16) PIVOTAL TECHNOLOGIES
70 S. LAKE AVENUE - STE. #900
PASADENA CA 91101
US

00-D0-2F (hex) VLSI TECHNOLOGY INC.
00D02F (base 16) VLSI TECHNOLOGY INC.
8375 S. RIVER PARKWAY
TEMPE AZ 85284
US

00-D0-16 (hex) SCM MICROSYSTEMS, INC.
00D016 (base 16) SCM MICROSYSTEMS, INC.
160 KNOWLES DRIVE
LOS GATOS CA 95032
US

00-D0-43 (hex) ZONAL
RETAIL DATA SYSTEMS
00D043 (base 16) ZONAL RETAIL DATA SYSTEMS
24 FORTH STREET
SCOTLAND
GB

00-D0-C1 (hex) HARMONIC DATA SYSTEMS, LTD.
00D0C1 (base 16) HARMONIC DATA SYSTEMS, LTD.
10 BEIT SHAMAI STREET
ISRAEL 67018
IL

00-D0-35 (hex) BEHAVIOR TECH. COMPUTER CORP.
00D035 (base 16) BEHAVIOR TECH. COMPUTER CORP.
20F-B, No.98, Sec. 1,
Sijhih City Taipei County 22102
TW

00-D0-DB (hex) MCQUAY INTERNATIONAL
00D0DB (base 16) MCQUAY INTERNATIONAL
13600 INDUSTRIAL PARK BLVD.
MINNEAPOLIS MN 55441
US

00-D0-EA (hex) NEXTONE COMMUNICATIONS, INC.
00D0EA (base 16) NEXTONE COMMUNICATIONS, INC.
9700 GREAT SENECA HGHWY
ROCKVILLE MD 20850
US

00-D0-20 (hex) AIM SYSTEM, INC.
00D020 (base 16) AIM SYSTEM, INC.
4TH FLOOR CHUNGWOO B/D 219-1
KOREA
KR

00-D0-64 (hex) MULTITEL
00D064 (base 16) MULTITEL
2905 RUE DE CELLES
CANADA CANADA G2C-1W7
CA

00-D0-5E
(hex) STRATABEAM TECHNOLOGY, INC.
00D05E (base 16) STRATABEAM TECHNOLOGY, INC.
1943 LANDINGS DRIVE
MOUNTAIN VIEW CA 94043
US

00-D0-AA (hex) CHASE COMMUNICATIONS
00D0AA (base 16) CHASE COMMUNICATIONS
ST. LEONARDS ROAD
UNITED KINGDOM
GB

00-D0-FA (hex) Thales e-Security Ltd.
00D0FA (base 16) Thales e-Security Ltd.
Meadow View House, Crendon Industrial Estate
Aylesbury Buckinghamshire HP18 9EQ
GB

00-D0-EB (hex) LIGHTERA NETWORKS, INC.
00D0EB (base 16) LIGHTERA NETWORKS, INC.
10201 BUBB ROAD
CUPERTINO CA 95014
US

00-D0-06 (hex) Cisco Systems, Inc
00D006 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-D0-2A (hex) Voxent Systems Ltd.
00D02A (base 16) Voxent Systems Ltd.
Unit 2, Rowan House
Chippenham Wiltshire SN14 0SQ
GB

00-D0-8F (hex) ARDENT TECHNOLOGIES, INC.
00D08F (base 16) ARDENT TECHNOLOGIES, INC.
250 N. WOLFE

ROAD
SUNNYVALE CA 94086
US

00-D0-68 (hex) IWILL CORPORATION
00D068 (base 16) IWILL CORPORATION
NO.10, WU-CHUAN 3 RD,
TAIWAN
TW

00-D0-70 (hex) LONG WELL ELECTRONICS CORP.
00D070 (base 16) LONG WELL ELECTRONICS CORP.
4F, NO. 59-1, TSAO DI WEI
TAIWAN 222 TAIWAN 222 R.O.C.
TW

00-D0-29 (hex) WAKEFERN FOOD CORPORATION
00D029 (base 16) WAKEFERN FOOD CORPORATION
230 RARITAN CENTER PARKWAY
EDISON NJ 08837
US

00-D0-B1 (hex) OMEGA ELECTRONICS SA
00D0B1 (base 16) OMEGA ELECTRONICS SA
ROUTE DE SOLEURE 68

CH

00-D0-C3 (hex) VIVID TECHNOLOGY PTE, LTD.
00D0C3 (base 16) VIVID TECHNOLOGY PTE, LTD.
1003 BUKIT MERAH CENTRAL

SG

00-D0-C8 (hex) Prevas A/S
00D0C8 (base 16) Prevas A/S
Lyskær 3EF
DK-2730 Herlev
DK

00-D0-5D (hex) INTELLIWORXX, INC.
00D05D (base 16) INTELLIWORXX, INC.
1819 MAIN STREET, STE #1101
SARASOTA FL 34236
US

00-D0-A1

(hex) OSKAR VIERLING GMBH + CO. KG
00D0A1 (base 16) OSKAR VIERLING GMBH + CO. KG
PRETZFELDER STR. 21

DE

00-D0-AC (hex) Commscope, Inc
00D0AC (base 16) Commscope, Inc
140 Vista Centre Drive
Forest VA 24551
US

00-D0-BC (hex) Cisco Systems, Inc
00D0BC (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-D0-7E (hex) KEYCORP LTD.
00D07E (base 16) KEYCORP LTD.
P.O. BOX 199

AU

00-50-65 (hex) TDK-Lambda Corporation
005065 (base 16) TDK-Lambda Corporation
36-1 Kasuminosato
Ami-Machi Inashiki-Gun Ibaraki, 300-0396
JP

00-50-B9 (hex) XITRON TECHNOLOGIES, INC.
0050B9 (base 16) XITRON TECHNOLOGIES, INC.
6295-D FERRIS SQUARE
SAN DIEGO CA 92121
US

00-50-6B (hex) SPX-ATEG
00506B (base 16) SPX-ATEG
802 S. MAIN STREET
WAYLAND MI 49348
US

00-50-4A (hex) ELTECO A.S.
00504A (base 16) ELTECO A.S.
ROSINSKA
CESTA P.O. BOX C-9

SK

00-50-C1 (hex) GEMFLEX NETWORKS, LTD.
0050C1 (base 16) GEMFLEX NETWORKS, LTD.
230-6651 FRASERWOOD PL.
CANADA V6W 1J3
CA

00-50-75 (hex) KESTREL SOLUTIONS
005075 (base 16) KESTREL SOLUTIONS
2370 CHARLESTON ROAD
MT. VIEW CA 94043
US

00-50-AC (hex) MAPLE COMPUTER CORPORATION
0050AC (base 16) MAPLE COMPUTER CORPORATION
2F, NO. 184, SEC. 2
Taipei
TJ

00-50-49 (hex) Arbor Networks Inc
005049 (base 16) Arbor Networks Inc
6 Omni Way
Chelmsford MA 01824
US

00-50-0D (hex) SATORI ELECTORIC CO., LTD.
00500D (base 16) SATORI ELECTORIC CO., LTD.
TIGUSADAI 38-8 MIDORI-KU
YOKOHAMA, KANAGAWA
JP

00-50-12 (hex) CBL - GMBH
005012 (base 16) CBL - GMBH
DARMSTAEDTER STR. 81
D-64839 MUENSTER
DE

00-50-F2 (hex) MICROSOFT CORP.
0050F2 (base 16) MICROSOFT CORP.
ONE MICROSOFT WAY
REDMOND WA 98052-6399
US

00-50-29
(hex) 1394 PRINTER WORKING GROUP
005029 (base 16) 1394 PRINTER WORKING GROUP
P.O. BOX 23158
SAN JOSE CA 95153

US

00-50-81 (hex) MURATA MACHINERY, LTD.
005081 (base 16) MURATA MACHINERY, LTD.
136, TAKEDA-MUKAISHIRO-CHO
FUSHIMI-KU, KYOTO 612-8686
JP

00-D0-C0 (hex) Cisco Systems, Inc
00D0C0 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-D0-76 (hex) Bank of America
00D076 (base 16) Bank of America
1100 Merrill Drive
Pennington NJ 08534
US

00-D0-51 (hex) O2 MICRO, INC.
00D051 (base 16) O2 MICRO, INC.
2901 TASMAN DRIVE, STE.#205
SANTA CLARA CA 95054
US

00-D0-BB (hex) Cisco Systems, Inc
00D0BB (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

00-D0-6E (hex) TRENDVIEW RECORDERS LTD.
00D06E (base 16) TRENDVIEW RECORDERS LTD.
4 AIRFIELD WAY
UNITED KINGDOM
GB

00-D0-5C (hex) KATHREIN TechnoTrend
GmbH
00D05C (base 16) KATHREIN TechnoTrend GmbH
Ing.- Anton-Kathrein Str. 2

DE

00-50-A4 (hex) IO TECH, INC.
0050A4 (base 16) IO TECH, INC.
25971 CANNON ROAD

CLEVELAND OH 44146
US

00-50-A3 (hex) TransMedia Communications, Inc.
0050A3 (base 16) TransMedia Communications, Inc.
20 GREAT OAKS BLVD., #210
SAN JOSE CA 95119
US

00-50-5C (hex) TUNDO CORPORATION
00505C (base 16) TUNDO CORPORATION
7 GIBOREI ISRAEL STREET

IL

00-50-B3 (hex) VOICEBOARD CORPORATION
0050B3 (base 16) VOICEBOARD CORPORATION
3151 WEST FIFTH STREET
OXNARD CA 93030
US

00-50-8C (hex) RSI SYSTEMS
00508C (base 16) RSI SYSTEMS
5555 W. 78TH STREET, Suite F
EDINA MN 55439
US

00-50-A1 (hex) CARLO GAVAZZI, INC.
0050A1 (base 16) CARLO GAVAZZI, INC.
222 PENNBRIGHT DR. - STE.#210
HOUSTON TX 77090
US

00-50-17 (hex) RSR S.R.L.
005017 (base 16) RSR S.R.L.
VIA
SINIGAGLIA, 38
22075
IT

00-50-ED (hex) ANDA NETWORKS
0050ED (base 16) ANDA NETWORKS
2921 COPPER ROAD
SANTA CLARA CA 95051
US

00-50-96 (hex) SALIX TECHNOLOGIES, INC.
005096 (base 16) SALIX TECHNOLOGIES, INC.

904 WIND RIVER LANE- STE. #101
GAITHERSBURG MD 20878
US

00-50-CF (hex) VANLINK COMMUNICATION TECHNOLOGY RESEARCH INSTITUTE
0050CF (base 16) VANLINK COMMUNICATION TECHNOLOGY RESEARCH INSTITUTE
210 YADI OFFICE BUILDING
BEIJING 100088
CN

00-50-24 (hex) NAVIC SYSTEMS, INC.
005024 (base 16) NAVIC SYSTEMS, INC.
74 CRESCENT STREET
NEEDHAM MA
US

00-90-BD (hex) OMNIA COMMUNICATIONS, INC.
0090BD (base 16) OMNIA COMMUNICATIONS, INC.
100 NICKERSON ROAD
MARLBOROUGH MA 01752
US

00-90-B4 (hex) WILLOWBROOK TECHNOLOGIES
0090B4 (base 16) WILLOWBROOK TECHNOLOGIES
7120 HAYVENHURST AVE.-STE.#401
VAN NUYS CA 91406
US

00-90-03 (hex) APLIO
009003
(base 16) APLIO
18 Avenue Du 8 Mai 1945

FR

00-90-31 (hex) MYSTICOM, LTD.
009031 (base 16) MYSTICOM, LTD.
P.O. 8364
NATANIA 42504
IL

00-90-9D (hex) NovaTech Process Solutions, LLC
00909D (base 16) NovaTech Process Solutions, LLC
11500 Cronridge Drive
Owings Mills MD 21117
US

00-90-DD (hex) MIHARU COMMUNICATIONS Inc

0090DD (base 16) MIHARU COMMUNICATIONS Inc

KANAGAWA
JP

00-90-28 (hex) NIPPON SIGNAL CO., LTD.
009028 (base 16) NIPPON SIGNAL CO., LTD.
11 HIRAIDE-KOGIO-DANCHI
UISUNOMIYA TOCHIGI 321-8651
JP

00-90-7D (hex) Lake Communications
00907D (base 16) Lake Communications
1 Westbrook, Milton Road

IE

00-50-E1 (hex) NS TECH ELECTRONICS SDN BHD
0050E1 (base 16) NS TECH ELECTRONICS SDN BHD
No. 37, Lorong 23, Geylang
Singapore 388371
SG

00-50-DE (hex) SIGNUM SYSTEMS CORP.
0050DE (base 16) SIGNUM SYSTEMS CORP.
1211
Flynn Rd,
Camarillo CA 93021
US

00-50-7B (hex) MERLOT COMMUNICATIONS
00507B (base 16) MERLOT COMMUNICATIONS
BERKSHIRE CORPORATE PARK
BETHEL CT 06801
US

00-50-CD (hex) DIGIANSWER A/S
0050CD (base 16) DIGIANSWER A/S
SKALHUSE 5

DK

00-50-2D (hex) ACCEL, INC.
00502D (base 16) ACCEL, INC.
1F, NO. 7, R&D 1ST ROAD
HSINCHU
TW

00-50-3A (hex) DATONG ELECTRONICS LTD.
00503A (base 16) DATONG ELECTRONICS LTD.
CLAYTON WOOD CLOSE
Leeds LS16 6QE
GB

00-50-87 (hex) TERASAKI ELECTRIC CO., LTD.
005087 (base 16) TERASAKI ELECTRIC CO., LTD.
7-2-10 HANNAN-CHO ABENO-KU
OSAKA, 545-0021
JP

00-90-26 (hex) ADVANCED SWITCHING COMMUNICATIONS, INC.
009026 (base 16) ADVANCED SWITCHING COMMUNICATIONS, INC.
8330 BOONE BOULEVARD--5TH FL.
VIENNA VA 22182
US

00-90-D3 (hex) GIESECKE & DEVRIENT GmbH
0090D3 (base 16) GIESECKE & DEVRIENT GmbH
PRINZREGENTENSTRASSE
159
D-81677 MUNCHEN
DE

00-90-67 (hex) WalkAbout Computers, Inc.
009067 (base 16) WalkAbout Computers, Inc.
2655 N. OCEAN DRIVE--STE. #510
SINGER ISLAND FL 33404
US

00-90-33 (hex) INNOVAPHONE AG
009033 (base 16) INNOVAPHONE AG
Boeblinger Str. 76
SINDELFINGEN D71065
DE

00-90-8D (hex) VICKERS ELECTRONICS SYSTEMS
00908D (base 16) VICKERS ELECTRONICS SYSTEMS
1151 W. MASON-MORROW RD.
LEBANON OH 45036
US

00-90-42 (hex) ECCS, Inc.
009042 (base 16) ECCS, Inc.
ONE SHEILA DRIVE
TINTON FALLS NJ 07724
US

00-90-51 (hex) ULTIMATE TECHNOLOGY CORP.
009051 (base 16) ULTIMATE TECHNOLOGY CORP.
100 RAWSON ROAD
VICTOR NY 14564
US

00-90-C9 (hex) DPAC Technologies
0090C9 (base 16) DPAC Technologies
7321 Lincoln Way
Garden Grove CA 92841
US

00-90-1D (hex) PEC (NZ) LTD.
00901D (base 16) PEC (NZ) LTD.
2 STATION ROAD
MARTON
NZ

00-90-97
(hex) Sycamore Networks
009097 (base 16) Sycamore Networks
220 Mill Rd
Chelmsford MA 01824
US

00-50-26 (hex) COSYSTEMS, INC.
005026 (base 16) COSYSTEMS, INC.
1263 OAKMEAD PARKWAY
SUNNYVALE CA 94086
US

00-90-2C (hex) DATA & CONTROL EQUIPMENT LTD.
00902C (base 16) DATA & CONTROL EQUIPMENT LTD.
COUNTY FARM, WENDOVER RD.
BUCKS. HP22 STA
GB

00-90-84 (hex) ATECH SYSTEM
009084 (base 16) ATECH SYSTEM
4F DAEBOONG BLDG. 1451-78
SEOUL 137-070
KR

00-90-6A (hex) TURNSTONE SYSTEMS, INC.
00906A (base 16) TURNSTONE SYSTEMS, INC.
274 Ferguson Drive
MOUNTAIN VIEW CA 94043

US

00-90-87 (hex) ITIS
009087 (base 16) ITIS
CENTRE ESPACE PERFORMANCE
35769 SAINT-GREGOIRE CEDEX
FR

00-90-4D (hex) SPEC S.A.
00904D (base 16) SPEC S.A.
CASP 172 3-B
08013 BARCELONA
ES

00-90-FD (hex) CopperCom, Inc.
0090FD (base 16) CopperCom, Inc.
3255-1
SCOTT BLVD.,--STE.#103
SANTA CLARA CA 95054
US

00-90-39 (hex) SHASTA NETWORKS
009039 (base 16) SHASTA NETWORKS
249 HUMBOLDT COURT
SUNNYVALE CA 94089-1300
US

00-90-45 (hex) Marconi Communications
009045 (base 16) Marconi Communications
1000 Fore Drive
Warrendale PA 15086-7502
US

00-90-36 (hex) ens, inc.
009036 (base 16) ens, inc.
P.O. BOX 19207
RALEIGH NC 27619
US

00-90-8B (hex) Tattile SRL
00908B (base 16) Tattile SRL
2600 Fernbrook Lane
Plymouth MN 55447
US

00-90-44 (hex) ASSURED DIGITAL, INC.
009044 (base 16) ASSURED DIGITAL, INC.
9-11 GOLDSMITH ST.

LITTLETON MA 01460
US

00-90-7C (hex) DIGITALCAST, INC.
00907C (base 16) DIGITALCAST, INC.
503, ILKWANG BLDG., 1656-2
SEOCHO-KU SEOUL
KR

00-90-8E (hex) Nortel Networks Broadband Access
00908E (base 16) Nortel Networks Broadband Access
39660 Eureka Drive
Newark CA 94560
US

00-90-09
(hex) I Controls, Inc.
009009 (base 16) I Controls, Inc.
2nd Fl, I'Park 302, 11 Jeongja-Dong,
Seongnam Gyeonggi-Do 463-859
KR

00-90-2A (hex) COMMUNICATION DEVICES, INC.
00902A (base 16) COMMUNICATION DEVICES, INC.
85 Fulton Street
Boonton NJ 07005-1912
US

00-90-72 (hex) SIMRAD AS
009072 (base 16) SIMRAD AS
P.O. BOX 111
3191 HORTEN
NO

00-90-0D (hex) Overland Storage Inc.
00900D (base 16) Overland Storage Inc.
9112 Spectrum Center Blvd
SAN DIEGO CA 92123
US

00-90-CF (hex) NORTEL
0090CF (base 16) NORTEL
250 SIDNEY STREET
Belleville Ontario K8N 5B7
CA

00-90-2F (hex) NETCORE SYSTEMS, INC.
00902F (base 16) NETCORE SYSTEMS, INC.

187 BALLARDVALE STREET
WILMINGTON MA 01887
US

00-90-98 (hex) SBC DESIGNS, INC.
009098 (base 16) SBC DESIGNS, INC.
3077-H LEEMAN FERRY ROAD
HUNTSVILLE AL 35801
US

00-90-02 (hex) ALLGON
AB
009002 (base 16) ALLGON AB
GARDATORGET 1
412 50 GOTEBORG
SE

00-90-FC (hex) NETWORK COMPUTING DEVICES
0090FC (base 16) NETWORK COMPUTING DEVICES
301 RAVENDALE DRIVE
MOUNTAIN VIEW CA 94043
US

00-90-14 (hex) ROTORK INSTRUMENTS, LTD.
009014 (base 16) ROTORK INSTRUMENTS, LTD.
CHAUL END LANE
LU4 8EZ England
GB

00-90-25 (hex) BAE Systems Australia (Electronic Systems) Pty Ltd
009025 (base 16) BAE Systems Australia (Electronic Systems) Pty Ltd
2 Second Ave
Mawson Lakes South Australia 5095
AU

00-90-4C (hex) Epigram, Inc.
00904C (base 16) Epigram, Inc.
870 West Maude Ave.
Sunnyvale CA 94086
US

00-90-91 (hex) DigitalScape, Inc.
009091 (base 16) DigitalScape, Inc.
6 MORGAN - STE.#100
IRVINE CA 92618
US

00-90-7E (hex) VETRONIX CORP.

00907E (base 16) VETRONIX CORP.
2030 ALAMEDE PADRE SERRA
SANTA BARBARA CA 93103
US

00-90-50 (hex) Teleste
Corporation
009050 (base 16) Teleste Corporation
Telestenkatu 1
LITTOINEN FI-20660
FI

00-90-D2 (hex) Artel Video Systems
0090D2 (base 16) Artel Video Systems
5B Lyberty Way
Westford MA 01886
US

00-01-FE (hex) DIGITAL EQUIPMENT CORPORATION
0001FE (base 16) DIGITAL EQUIPMENT CORPORATION
301 ROCKRIMMON BLVD, SOUTH
COLORADO SPRINGS CO 80919
US

00-90-66 (hex) Troika Networks, Inc.
009066 (base 16) Troika Networks, Inc.
2829 Townsgate Road,
Westlake Village CA 91361
US

00-90-DE (hex) CARDKEY SYSTEMS, INC.
0090DE (base 16) CARDKEY SYSTEMS, INC.
1757 TAPO CANYON ROAD
SIMI VALLEY CA 93063
US

00-90-BE (hex) IBC/INTEGRATED BUSINESS COMPUTERS
0090BE (base 16) IBC/INTEGRATED BUSINESS COMPUTERS
2685 C PARK CENTER DRIVE
SIMI VALLEY CA 93065
US

00-90-6B (hex) APPLIED RESOURCES, INC.
00906B (base 16) APPLIED RESOURCES, INC.
9821 WIDMER ROAD
LENEXA
KS 66215-1239
US

00-10-8A (hex) TeraLogic, Inc.
00108A (base 16) TeraLogic, Inc.
707 CALIFORNIA STREET
MOUNTAIN VIEW CA 94041
US

00-10-24 (hex) NAGOYA ELECTRIC WORKS CO., LTD
001024 (base 16) NAGOYA ELECTRIC WORKS CO., LTD
29-1 SHINODA, MIWA-CHO
AMA-GUN, AICHI 490-12
JP

00-10-D6 (hex) Exelis
0010D6 (base 16) Exelis
7310 Innovation Blvd., M/S 536
Ft Wayne IN 46818
US

00-10-48 (hex) HTRC AUTOMATION, INC.
001048 (base 16) HTRC AUTOMATION, INC.
285 LAVAL STREET
QUEBEC J0B 1H0
CA

00-10-97 (hex) WinNet Metropolitan Communications Systems, Inc.
001097 (base 16) WinNet Metropolitan Communications Systems, Inc.
661 EAST ARQUES AVE.
SUNNYVALE CA 94086
US

00-10-85 (hex) POLARIS COMMUNICATIONS, INC.
001085 (base 16) POLARIS COMMUNICATIONS, INC.
10200 SW ALLEN BLVD.
BEAVERTON OR 97005
US

00-10-0C (hex) ITO CO., LTD.
00100C (base 16) ITO CO.,
LTD.
8-2 MIYANOSHITA-CHO
HIRAKATA-CITY, OSAKA
JP

00-10-06 (hex) Thales Contact Solutions Ltd.
001006 (base 16) Thales Contact Solutions Ltd.
Tolbar Way
Southampton, SO30 2ZP

GB

00-10-7F (hex) CRESTRON ELECTRONICS, INC.
00107F (base 16) CRESTRON ELECTRONICS, INC.
15 Volvo Drive
Rockleigh NJ 07647
US

00-10-D4 (hex) STORAGE COMPUTER CORPORATION
0010D4 (base 16) STORAGE COMPUTER CORPORATION
11 RIVERSIDE STREET
NASHUA NH 03062
US

00-10-E2 (hex) ArrayComm, Inc.
0010E2 (base 16) ArrayComm, Inc.
3141 ZANKER ROAD
SAN JOSE CA 95134
US

00-06-29 (hex) IBM Corp
000629 (base 16) IBM Corp
3039 E Cornwallis Road
Research Triangle Park NC 27709-2195
US

00-10-A9 (hex) ADHOC TECHNOLOGIES
0010A9 (base 16) ADHOC TECHNOLOGIES
1150 FIRST STREET
SAN JOSE CA 95112
US

00-10-50 (hex) RION CO., LTD.
001050 (base 16) RION CO., LTD.
3-20-41 HIGASHIMOTOMACHI
KOKUBUNJI,
TOKYO 185
JP

00-10-CE (hex) VOLAMP, LTD.
0010CE (base 16) VOLAMP, LTD.
UNIT 3 RIVERSIDE BUSINESS PARK
FARNHAM, SURREY ENGLAND
GB

00-10-B2 (hex) COACTIVE AESTHETICS
0010B2 (base 16) COACTIVE AESTHETICS
4000 BRIDGEWAY - STE. #303

SAUSALITA CA 94965
US

00-10-6E (hex) TADIRAN COM. LTD.
00106E (base 16) TADIRAN COM. LTD.
26 HASHOFTIM ST.
HOLON 58102
IL

00-10-6F (hex) TRENTON TECHNOLOGY INC.
00106F (base 16) TRENTON TECHNOLOGY INC.
2350 CENTENNIAL DRIVE
GAINESVILLE GA 30504
US

00-10-34 (hex) GNP Computers
001034 (base 16) GNP Computers
555 E.Huntington Drive
Monrovia CA 91016
US

00-10-44 (hex) InnoLabs Corporation
001044 (base 16) InnoLabs Corporation
2F-4, NO. 16, LANE 609, CHUNG-HSIN RD.
Taipei Hsien
TW

00-10-89 (hex) WebSonic
001089 (base 16) WebSonic
3466 EDWARD AVE.
SANTA CLARA CA 95054
US

00-10-6A
(hex) DIGITAL MICROWAVE CORPORATION
00106A (base 16) DIGITAL MICROWAVE CORPORATION
170 ROSE ORCHARD WAY
SAN JOSE CA 95134
US

00-10-94 (hex) Performance Analysis Broadband, Spirent plc
001094 (base 16) Performance Analysis Broadband, Spirent plc
27349 Agoura Road
Calabasas Hills CA 91301
US

00-10-3C (hex) IC ENSEMBLE, INC.
00103C (base 16) IC ENSEMBLE, INC.

3255-2 SCOTT BLVD.--STE.#105
SANTA CLARA CA 95054
US

00-10-19 (hex) SIRONA DENTAL SYSTEMS GmbH & Co. KG
001019 (base 16) SIRONA DENTAL SYSTEMS GmbH & Co. KG
FABRIKSTRASSE 31
64625 BENSHEIM
DE

00-10-08 (hex) VIENNA SYSTEMS CORPORATION
001008 (base 16) VIENNA SYSTEMS CORPORATION
6651 FRASERWOOD PLACE
RICHMOND, B.C. V6W 1J3
CA

00-10-D1 (hex) Top Layer Networks, Inc.
0010D1 (base 16) Top Layer Networks, Inc.
4 MECHANIC ST.- STE#212
NATICK MA 01760
US

00-10-D2 (hex) NITTO TSUSHINKI CO.,
LTD
0010D2 (base 16) NITTO TSUSHINKI CO., LTD
7-27-11, TODOROKI, SETAGAYA-KU
TOKYO 151
JP

00-10-D9 (hex) IBM JAPAN, FUJISAWA MT+D
0010D9 (base 16) IBM JAPAN, FUJISAWA MT+D
KIRIHARA-CHO 1, FUJISAWA CITY
KANAGAWA 252
JP

00-10-9A (hex) NETLINE
00109A (base 16) NETLINE
7, Rue de Bievres
92140 CLAMART
FR

00-10-A1 (hex) KENDIN SEMICONDUCTOR, INC.
0010A1 (base 16) KENDIN SEMICONDUCTOR, INC.
1550 S. BASCOM AVE., STE. #250
CAMPBELL CA 95008
US

00-10-5F (hex) ZODIAC DATA SYSTEMS

00105F (base 16) ZODIAC DATA SYSTEMS
5 Av Des Andes
Les Ulis 91940
FR

00-10-3E (hex) NETSCHOOLS CORPORATION
00103E (base 16) NETSCHOOLS CORPORATION
2003 LANDINGS DRIVE
MOUNTAIN VIEW CA 94043
US

00-10-CB (hex) FACIT K.K.
0010CB (base 16) FACIT K.K.
HIMEI NIHOMBASHI BLDG. 3F
CHUO-KU, TOKYO 103
JP

00-10-38 (hex) Micro Research Ltd.
001038 (base 16) Micro
Research Ltd.
2F Minami-Shinagawa N Bldg., 2-2-10 Minami-Shinagawa
Tokyo Shinagawa-Ku 140-0004
JP

00-10-E0 (hex) Oracle Corporation
0010E0 (base 16) Oracle Corporation
500 Oracle Parkway
Redwood Shores CA 94065
US

00-10-7C (hex) P-COM, INC.
00107C (base 16) P-COM, INC.
3175 S. WINCHESTER BLVD.
CAMPBELL CA 95008
US

00-10-BD (hex) THE TELECOMMUNICATION TECHNOLOGY COMMITTEE (TTC)
0010BD (base 16) THE TELECOMMUNICATION TECHNOLOGY COMMITTEE (TTC)
1-1-12 Shiba Kouen, Minato-ku
MINATO-KU, TOKYO 105-0011
JP

00-10-3B (hex) HIPPI NETWORKING FORUM
00103B (base 16) HIPPI NETWORKING FORUM
PO BOX 10173
ALBUQUERQUE NM 87184-0173
US

00-10-A8 (hex) RELIANCE COMPUTER CORP.
0010A8 (base 16) RELIANCE COMPUTER CORP.
3032 BUNKER HILL LANE
SANTA CLARA CA 95054
US

00-E0-B4 (hex) TECHNO SCOPE CO., LTD.
00E0B4 (base 16) TECHNO SCOPE CO., LTD.
13-6-7 KISHIMATI URAWASI
SAITAMA
336
JP

00-E0-71 (hex) EPIS MICROCOMPUTER
00E071 (base 16) EPIS MICROCOMPUTER
LAUTLINGER STRASSE 147
72458 ALBSTADT
DE

00-E0-66 (hex) ProMax Systems, Inc.
00E066 (base 16) ProMax Systems, Inc.
16 TECHNOLOGY DRIVE--BLDG.#106
IRVINE CA 92656
US

00-E0-93 (hex) ACKFIN NETWORKS
00E093 (base 16) ACKFIN NETWORKS
575 N. PASTORIA AVE.
SUNNYVALE CA 94086
US

00-E0-4B (hex) JUMP INDUSTRIELLE COMPUTERTECHNIK GmbH
00E04B (base 16) JUMP INDUSTRIELLE COMPUTERTECHNIK GmbH

D94469 DEGGENDORF
DE

00-E0-F0 (hex) ABLER TECHNOLOGY, INC.
00E0F0 (base 16) ABLER TECHNOLOGY, INC.
4F, NO. 54 SEC. 4
TAIPEI
TW

00-E0-02 (hex) CROSSROADS SYSTEMS, INC.
00E002 (base 16) CROSSROADS SYSTEMS, INC.
9390 RESEARCH BLVD.
AUSTIN TX 78759
US

00-E0-D6 (hex) COMPUTER & COMMUNICATION RESEARCH LAB.
00E0D6 (base 16) COMPUTER & COMMUNICATION RESEARCH LAB.

CHUTUNG,
HSINCHU
TW

00-E0-B7 (hex) Cosworth Electronics Ltd
00E0B7 (base 16) Cosworth Electronics Ltd
The Octagon, St. James Mill Road
Northampton Northamptonshire NN5 5RA, GB
GB

00-E0-83 (hex) JATO TECHNOLOGIES, INC.
00E083 (base 16) JATO TECHNOLOGIES, INC.
505 EAST HUNTLAND DR. STE #550
AUSTIN TX 78752
US

00-E0-72 (hex) LYNK
00E072 (base 16) LYNK
RABIN BUILDING
D.N. MISGAV 201
IL

00-E0-AD (hex) EES TECHNOLOGY, LTD.
00E0AD (base 16) EES TECHNOLOGY, LTD.
25 EASTWAYS
WITHAM, ESSEX, CM8 3AL
GB

00-E0-94 (hex) OSAI SRL
00E094 (base 16) OSAI SRL
VIA TORINO
603-IVREA (TO)
IT

00-E0-32 (hex) MISYS FINANCIAL SYSTEMS, LTD.
00E032 (base 16) MISYS FINANCIAL SYSTEMS, LTD.
BUCKHOLT DRIVE,
WARNDON, WORCESTER WR49SR
GB

00-E0-C0 (hex) SEIWA ELECTRIC MFG. CO., LTD.
00E0C0 (base 16) SEIWA ELECTRIC MFG. CO., LTD.
86 TARADA SHIN-IKE,
KYOTO

PREFECTURE
JP

00-E0-27 (hex) DUX, INC.
00E027 (base 16) DUX, INC.
5-18-19, NISHIKAMATA, OTA-KU
TOKYO-TO, 144
JP

00-E0-44 (hex) LSICS CORPORATION
00E044 (base 16) LSICS CORPORATION
3-8-3 NINOMIYA, TSKUKUBA SHI
IBARAGI-KEN, 305
JP

00-E0-CA (hex) BEST DATA PRODUCTS
00E0CA (base 16) BEST DATA PRODUCTS
21800 NORDHOFF STREET
CHATSWORTH CA 91311
US

00-E0-A7 (hex) IPC INFORMATION SYSTEMS, INC.
00E0A7 (base 16) IPC INFORMATION SYSTEMS, INC.
METRO CENTER
STAMFORD CT 06907
US

00-E0-97 (hex) CARRIER ACCESS CORPORATION
00E097 (base 16) CARRIER ACCESS CORPORATION
5395 PEARL PARKWAY
BOULDER CO 80301
US

00-E0-BA (hex) BERGHOF AUTOMATIONSTECHNIK GmbH
00E0BA (base 16) BERGHOF AUTOMATIONSTECHNIK GmbH
HARRET STRASSE 1
D 72800 ENINGEN
DE

00-E0-21 (hex) FREEGATE CORP.
00E021 (base 16) FREEGATE CORP.
710 LAKEWAY STE.#230
SUNNYVALE CA
94086
US

00-E0-5B (hex) WEST END SYSTEMS CORP.
00E05B (base 16) WEST END SYSTEMS CORP.

39 WINNER'S CIRCLE DR.,
ARNPRIOR, ONTARIO K7S 3G9
CA

00-E0-62 (hex) HOST ENGINEERING
00E062 (base 16) HOST ENGINEERING
200 EAST MAIN STREET -STE.#700
JOHNSON CITY TN 37604
US

00-E0-D8 (hex) LANBit Computer, Inc.
00E0D8 (base 16) LANBit Computer, Inc.
12F, 552 CHUNG HSIAO E., RD.

TW

00-E0-1F (hex) AVIDIA Systems, Inc.
00E01F (base 16) AVIDIA Systems, Inc.
135 NORTH PLAINS INDUSTRIAL RD
WALLINGFORD CT 06492
US

00-E0-D0 (hex) NETSPEED, INC.
00E0D0 (base 16) NETSPEED, INC.
12303 TECHNOLOGY BLVD.
AUSTIN TX 78727
US

00-E0-60 (hex) SHERWOOD
00E060 (base 16) SHERWOOD
21056 FORBES STREET
HAYWARD CA 94545
US

00-E0-74 (hex) TIERNAN COMMUNICATIONS, INC.
00E074 (base 16) TIERNAN COMMUNICATIONS, INC.
11025 ROSELLE ST.
SAN DIEGO CA 92121
US

00-E0-D9
(hex) TAZMO CO., LTD.
00E0D9 (base 16) TAZMO CO., LTD.
6186 KINOKO, IBARA-SHI
OKAYAMA 715
JP

00-E0-55 (hex) INGENIERIA ELECTRONICA COMERCIAL INELCOM S.A.

00E055 (base 16) INGENIERIA ELECTRONICA COMERCIAL INELCOM S.A.
CL. PIQUER NO.3
28033 MADRID
ES

00-E0-42 (hex) Pacom Systems Ltd.
00E042 (base 16) Pacom Systems Ltd.
UNIT 22 38/46 SOUTH ST.
RYDALMERE 2116 NSW
AU

00-E0-EB (hex) DIGICOM SYSTEMS, INCORPORATED
00E0EB (base 16) DIGICOM SYSTEMS, INCORPORATED
188 TOPAZ STREET
MILPITAS CA 95035
US

00-E0-D1 (hex) TELSIS LIMITED
00E0D1 (base 16) TELSIS LIMITED
16 BARNES WALLACE ROAD
FAREHAM, HAMPSHIRE PO15 5TT ENGLAND
GB

00-E0-89 (hex) ION Networks, Inc.
00E089 (base 16) ION Networks, Inc.
1551 South Washington Ave.
Piscataway NJ 08854
US

00-E0-70 (hex) DH TECHNOLOGY
00E070 (base 16) DH TECHNOLOGY
3003 ROLLIE GATES DRIVE
PASO ROBLES
CA 93446
US

00-E0-5C (hex) PHC Corporation
00E05C (base 16) PHC Corporation
2-38-5 Nishishimbashi
Minato-ku Tokyo 105-8433
JP

00-E0-73 (hex) NATIONAL AMUSEMENT NETWORK, INC.
00E073 (base 16) NATIONAL AMUSEMENT NETWORK, INC.
401 N. MICHIGAN AVENUE
CHICAGO IL 60611
US

00-E0-6A (hex) KAPSCH AG
00E06A (base 16) KAPSCH AG
WAGENSEILGASSE 1
1120-VIENNA
AT

00-E0-01 (hex) STRAND LIGHTING LIMITED
00E001 (base 16) STRAND LIGHTING LIMITED
GRANT WAY
MIDDLESEX England TW7 5QD
GB

00-E0-CE (hex) ARN
00E0CE (base 16) ARN
51, RUE GASTON LAURIAU
F-93512 MONTREUIL CEDEX
FR

00-E0-5F (hex) e-Net, Inc.
00E05F (base 16) e-Net, Inc.
12325 HYMEADOW DRIVE
AUSTIN TX 78750
US

00-E0-E7 (hex) RAYTHEON E-SYSTEMS, INC.
00E0E7 (base 16) RAYTHEON E-SYSTEMS, INC.
1301 E. COLLINS
RICHARDSON TX 75081
US

00-60-66 (hex) LACROIX Trafic
006066 (base
16) LACROIX Trafic
1 ere Avenue, 11 eme rue
06516 CARROS
FR

00-60-F4 (hex) ADVANCED COMPUTER SOLUTIONS, Inc.
0060F4 (base 16) ADVANCED COMPUTER SOLUTIONS, Inc.
12675 DANIELSON COURT
POWAY CA 92064
US

00-60-60 (hex) Data Innovations North America
006060 (base 16) Data Innovations North America
120 Kimball Avenue Suite 100
South Burlington VT 05403
US

00-60-F7 (hex) DATAFUSION SYSTEMS
0060F7 (base 16) DATAFUSION SYSTEMS
P.O. BOX 582
STELLENBOSCH, 7599
ZA

00-60-20 (hex) PIVOTAL NETWORKING, INC.
006020 (base 16) PIVOTAL NETWORKING, INC.
7246 SHARON DR., STE
SAN JOSE CA 95129
US

00-60-C0 (hex) Nera Networks AS
0060C0 (base 16) Nera Networks AS
Kokstadveien 23
Bergen 5020
NO

00-60-0E (hex) WAVENET INTERNATIONAL, INC.
00600E (base 16) WAVENET INTERNATIONAL, INC.
5825 KENNEDY ROAD
MISSISSAUGA, ONTARIO L4Z 2G3
CA

00-60-35 (hex) DALLAS
SEMICONDUCTOR, INC.
006035 (base 16) DALLAS SEMICONDUCTOR, INC.
4401 SOUTH BELTWOOD PARKWAY
DALLAS TX 75244-3292
US

00-60-07 (hex) ACRES GAMING, INC.
006007 (base 16) ACRES GAMING, INC.
815 NW 9TH STREET
CORVALLIS OR 97330
US

00-60-58 (hex) COPPER MOUNTAIN COMMUNICATIONS, INC.
006058 (base 16) COPPER MOUNTAIN COMMUNICATIONS, INC.
6650 LUSK BLVD.-STE #B103
SAN DIEGO CA 92121
US

00-60-A0 (hex) SWITCHED NETWORK TECHNOLOGIES, INC.
0060A0 (base 16) SWITCHED NETWORK TECHNOLOGIES, INC.
13805 1ST AVENUE NORTH
PLYMOUTH MN 55441-5455

US

00-60-17 (hex) TOKIMEC INC.
006017 (base 16) TOKIMEC INC.
2-16, MINAMI-KAMATA, OHTA-KU
TOKYO 144
JP

00-60-26 (hex) VIKING Modular Solutions
006026 (base 16) VIKING Modular Solutions
11 COLUMBIA
LAGUNA HILLS CA 92656
US

00-60-19 (hex) Roche Diagnostics
006019 (base 16) Roche Diagnostics
9115 Hague Road
Indianapolis
IN 46250-0457
US

00-60-59 (hex) TECHNICAL COMMUNICATIONS CORP.
006059 (base 16) TECHNICAL COMMUNICATIONS CORP.
100 DOMINO DRIVE
CONCORD MA 01742
US

00-60-03 (hex) TERAOKA WEIGH SYSTEM PTE, LTD.
006003 (base 16) TERAOKA WEIGH SYSTEM PTE, LTD.
3A TUAS AVENUE 8
SINGAPORE 639128
SG

00-60-7A (hex) DVS GMBH
00607A (base 16) DVS GMBH
KREPENSTRASSE 8
D-30165 HANNOVER
DE

00-60-F3 (hex) Performance Analysis Broadband, Spirent plc
0060F3 (base 16) Performance Analysis Broadband, Spirent plc
27349 Agoura Road
Calabasas Hills CA 91301
US

00-60-7C (hex) WaveAccess, Ltd.
00607C (base 16) WaveAccess, Ltd.
P.O. BOX 2473

RA'ANANA 43663
IL

00-60-73 (hex) REDCREEK COMMUNICATIONS, INC.
006073 (base 16) REDCREEK COMMUNICATIONS, INC.
3900 NEWPARK MALL ROAD
NEWARK CA 94560
US

00-E0-3C (hex) AdvanSys
00E03C (base 16) AdvanSys
1150 RINGWOOD COURT
SAN
JOSE CA 95131
US

00-E0-24 (hex) GADZOOX NETWORKS
00E024 (base 16) GADZOOX NETWORKS
5850 HELLYER AVENUE
SAN JOSE CA 95138
US

00-60-5B (hex) IntraServer Technology, Inc.
00605B (base 16) IntraServer Technology, Inc.
125 HOPPING BROOK PARK
HOLLISTON MA 01746
US

00-60-D7 (hex) ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE (EPFL)
0060D7 (base 16) ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE (EPFL)
ECUBLENS
CH-1015 LAUSANNE
CH

00-60-7D (hex) SENTIENT NETWORKS INC.
00607D (base 16) SENTIENT NETWORKS INC.
2201 CANTU COURT-STE #205
SARASOTA FL 34232
US

00-60-6E (hex) DAVICOM SEMICONDUCTOR, INC.
00606E (base 16) DAVICOM SEMICONDUCTOR, INC.
2457 AUGUSTINE DRIVE
SANTA CLARA CA 95054
US

00-60-C7 (hex) AMATI COMMUNICATIONS CORP.
0060C7 (base 16) AMATI COMMUNICATIONS CORP.

2043 SAMARITAN DRIVE
SAN JOSE CA 95124
US

10-00-E8 (hex) NATIONAL SEMICONDUCTOR
1000E8
(base 16) NATIONAL SEMICONDUCTOR
2900 SEMICONDUCTOR DRIVE
SANTA CLARA CA 95051
US

00-60-FD (hex) NetICs, Inc.
0060FD (base 16) NetICs, Inc.
42 NAGOG PARK
ACTON MA 01720
US

00-60-FB (hex) PACKETEER, INC.
0060FB (base 16) PACKETEER, INC.
10201 N. DE ANZA BOULEVARD
CUPERTINO CA 95014
US

00-60-C1 (hex) WaveSpan Corporation
0060C1 (base 16) WaveSpan Corporation
500 N. BERNARDO AVE.
MOUNTAIN VIEW CA 94043
US

00-60-3C (hex) HAGIWARA SYS-COM CO., LTD.
00603C (base 16) HAGIWARA SYS-COM CO., LTD.
2-4-3 NISHIKI NAKA-KU
AICHI 460
JP

00-60-CB (hex) HITACHI ZOSEN CORPORATION
0060CB (base 16) HITACHI ZOSEN CORPORATION
3-4, SAKURAJIMA 1-CHOME
KONOHANA-KU, OSAKA 554
JP

00-60-C8 (hex) KUKA WELDING SYSTEMS & ROBOTS
0060C8 (base 16) KUKA WELDING SYSTEMS & ROBOTS
BLUECHERSTRASSE 144
D-86165 AUGSBURG
DE

00-60-23 (hex) PERICOM SEMICONDUCTOR

CORP.
006023 (base 16) PERICOM SEMICONDUCTOR CORP.
2380 BERING DRIVE
SAN JOSE CA 95131
US

00-60-63 (hex) PSION DACOM PLC.
006063 (base 16) PSION DACOM PLC.
PSION DACOM HOUSE
CROWNHILL MILTON KEYNES MK8 0EF
GB

00-60-31 (hex) HRK SYSTEMS
006031 (base 16) HRK SYSTEMS
P.O. BOX 514
WESTVILLE 3630
ZA

00-60-ED (hex) RICARDO TEST AUTOMATION LTD.
0060ED (base 16) RICARDO TEST AUTOMATION LTD.
LOWESMOOR WHARF
WORCESTER, WR12RS
GB

00-60-12 (hex) POWER COMPUTING CORPORATION
006012 (base 16) POWER COMPUTING CORPORATION
10261 BUBB ROAD
CUPERTINO CA 95014
US

00-60-4D (hex) MMC NETWORKS, INC.
00604D (base 16) MMC NETWORKS, INC.
1134 EAST ARQUES AVENUE
SUNNYVALE CA 94086-4602
US

00-60-DD (hex) MYRICOM, INC.
0060DD (base 16) MYRICOM, INC.
325B N. SANTA ANITA AVE.
ARCADIA CA 91006
US

00-A0-9A (hex) NIHON KOHDEN AMERICA
00A09A (base
16) NIHON KOHDEN AMERICA
2446 DUPONT DRIVE
IRVINE CA 92715
US

00-A0-78 (hex) Marconi Communications
00A078 (base 16) Marconi Communications
1000 Fore Drive
Warrendale PA 15086-7502
US

00-A0-BF (hex) WIRELESS DATA GROUP MOTOROLA
00A0BF (base 16) WIRELESS DATA GROUP MOTOROLA
1201 E. WILEY ROAD
SCHAUMBURG IL 60173
US

00-60-AB (hex) LARSCOM INCORPORATED
0060AB (base 16) LARSCOM INCORPORATED
1845 MCCANDLESS DRIVE
MILPITAS CA 95035
US

00-60-5A (hex) CELCORE, INC.
00605A (base 16) CELCORE, INC.
8001 CENTERVIEW PARKWAY
MEMPHIS TN 38018
US

00-60-95 (hex) ACCU-TIME SYSTEMS, INC.
006095 (base 16) ACCU-TIME SYSTEMS, INC.
420 SOMERS ROAD
ELLINGTON CT 06029
US

00-A0-56 (hex) MICROPROSS
00A056 (base 16) MICROPROSS
33, RUE GANTOIS
59000 LILLE
FR

00-A0-E1 (hex) WESTPORT RESEARCH ASSOCIATES, INC.
00A0E1 (base 16) WESTPORT RESEARCH ASSOCIATES,
INC.
6102 ARLINGTON
RAYTOWN MO 64133
US

00-60-77 (hex) PRISA NETWORKS
006077 (base 16) PRISA NETWORKS
6620 Mesa Ridge Road,
San Diego CA 92121

US

00-60-94 (hex) IBM Corp
006094 (base 16) IBM Corp
3039 E Cornwallis Road
Research Triangle Park NC 27709-2195
US

00-60-A3 (hex) CONTINUUM TECHNOLOGY CORP.
0060A3 (base 16) CONTINUUM TECHNOLOGY CORP.
220 CONTINUUM DRIVE
FLETCHER NC 28732
US

00-60-3D (hex) 3CX
00603D (base 16) 3CX
2085 HAMILTON AVE., -STE.#220
SAN JOSE CA 95125
US

00-60-8A (hex) CITADEL COMPUTER
00608A (base 16) CITADEL COMPUTER
29 ARMORY RD
MILFORD MA 03055
US

00-60-93 (hex) VARIAN
006093 (base 16) VARIAN
2700 MITCHELL DR.
WALNUT GREEK CA 94598
US

00-60-46 (hex) VMETRO, INC.
006046 (base 16) VMETRO, INC.
1880 DAIRY ASHFORD- STE #535
HOUSTON TX 77077
US

00-A0-5F (hex) BTG Electronics Design BV
00A05F
(base 16) BTG Electronics Design BV
P.O. Box 1543
BA Oud Beijerland
NL

00-A0-CD (hex) DR. JOHANNES HEIDENHAIN GmbH
00A0CD (base 16) DR. JOHANNES HEIDENHAIN GmbH
DR.-JOHANNES-HEIDENHAIN STR.

83301 TRAUNREUT
DE

00-A0-DA (hex) INTEGRATED SYSTEMS Technology, Inc.
00A0DA (base 16) INTEGRATED SYSTEMS Technology, Inc.
4601 PRESIDENTS DRIVE
LANHAM MD 20706
US

00-A0-2A (hex) TRANCELL SYSTEMS
00A02A (base 16) TRANCELL SYSTEMS
3180 DE LA CRUZ BLVD.-STE#200
SANTA CLARA CA 95054-2402
US

00-A0-3F (hex) COMPUTER SOCIETY MICROPROCESSOR & MICROPROCESSOR STANDARDS C
00A03F (base 16) COMPUTER SOCIETY MICROPROCESSOR & MICROPROCESSOR STANDARDS C
% APPLE COMPUTER, INC.
CUPERTINO CA 95014
US

00-A0-2D (hex) 1394 Trade Association
00A02D (base 16) 1394 Trade Association
3925 WEST BRAKER LANE
AUSTIN TX 78759
US

00-A0-7C (hex) TONYANG NYLON CO., LTD.
00A07C (base 16) TONYANG
NYLON CO., LTD.
ELECTRONIC RESEARCH LAB
ANYANG-CITY, KYUNGKI-DO 430-080
KR

00-A0-E6 (hex) DIALOGIC CORPORATION
00A0E6 (base 16) DIALOGIC CORPORATION
1515 ROUTE 10
PARSIPPANY NJ 07054
US

00-A0-4A (hex) NISSHIN ELECTRIC CO., LTD.
00A04A (base 16) NISSHIN ELECTRIC CO., LTD.
5, MEOTOGOSHI, MUTSUSHI,
AICHI 481
JP

00-A0-35 (hex) CYLINK CORPORATION
00A035 (base 16) CYLINK CORPORATION

3131 JAY STREET
SANTA CLARA CA 95054
US

00-A0-3D (hex) OPTO-22
00A03D (base 16) OPTO-22
43044 BUSINESS PARK DR.
TEMECULA CA 92590
US

00-A0-26 (hex) TELDAT, S.A.
00A026 (base 16) TELDAT, S.A.
PARQUE TECNOLOGICO MADRID
28760 TACS CAN TOS (MADRID)
ES

00-A0-23 (hex) APPLIED CREATIVE TECHNOLOGY, INC.
00A023 (base 16) APPLIED CREATIVE TECHNOLOGY, INC.
2626 LOMBARDY LANE--STE.#107
DALLAS TX 75220
US

00-A0-14 (hex) CSIR
00A014 (base 16) CSIR
P.O.
BOX 395
SOUTH AFRICA
ZA

00-A0-15 (hex) WYLE
00A015 (base 16) WYLE
3000 BOWERS AVENUE
SANTA CLARA CA 95051
US

00-A0-6A (hex) Verilink Corporation
00A06A (base 16) Verilink Corporation
127 Jetplex Circle
Madison AL 35758
US

00-A0-70 (hex) COASTCOM
00A070 (base 16) COASTCOM
1151 HARBOR BAY PARKWAY
ALAMEDA CA 94502-6511
US

00-A0-1C (hex) NASCENT NETWORKS CORPORATION

00A01C (base 16) NASCENT NETWORKS CORPORATION
277 MAIN STREET, 3RD FLR.
MARLBORO MA 01752
US

00-A0-8F (hex) DESKNET SYSTEMS, INC.
00A08F (base 16) DESKNET SYSTEMS, INC.
80 BUSINESS PARK DRIVE
ARMONK NY 10504
US

00-A0-CC (hex) LITE-ON COMMUNICATIONS, INC.
00A0CC (base 16) LITE-ON COMMUNICATIONS, INC.
720 S. HILLVIEW DRIVE
MILPITAS CA 95035
US

00-A0-89 (hex) XPOINT TECHNOLOGIES, INC.
00A089 (base 16) XPOINT TECHNOLOGIES, INC.
902 CLINT MOORE RD.-STE#132
BOCA RATON
FL 33487
US

00-A0-07 (hex) APEXX TECHNOLOGY, INC.
00A007 (base 16) APEXX TECHNOLOGY, INC.
506 S. 11TH
BOISE ID 83707
US

00-A0-47 (hex) INTEGRATED FITNESS CORP.
00A047 (base 16) INTEGRATED FITNESS CORP.
26 6TH STREET
STAMFORD CT 06905
US

00-A0-32 (hex) GES SINGAPORE PTE. LTD.
00A032 (base 16) GES SINGAPORE PTE. LTD.
14 SUNGEI KADUT AVENUE
SINGAPORE 2572
SG

00-A0-E3 (hex) XKL SYSTEMS CORP.
00A0E3 (base 16) XKL SYSTEMS CORP.
8420 154TH AVE. NE
REDMOND WA 98052
US

00-A0-B7 (hex) CORDANT, INC.
00A0B7 (base 16) CORDANT, INC.
11400 COMMERCE PARK DR.
RESTON VA 22091-1506
US

00-20-C0 (hex) PULSE ELECTRONICS, INC.
0020C0 (base 16) PULSE ELECTRONICS, INC.
5706 FREDERICK AVENUE
ROCKVILLE MD 20852
US

00-20-47 (hex) STEINBRECHER CORP.
002047 (base 16) STEINBRECHER CORP.
30 NORTH AVENUE
BURLINGTON MA 01803
US

00-20-D5 (hex) VIPA
GMBH
0020D5 (base 16) VIPA GMBH
WETTERKREUZ 27

DE

00-20-1A (hex) MRV Communications, Inc.
00201A (base 16) MRV Communications, Inc.
20415 Nordhoff St.
Chatsworth CA 91311
US

00-20-6F (hex) FLOWPOINT CORPORATION
00206F (base 16) FLOWPOINT CORPORATION
7291 CORONADO DRIVE, STE# 4
SAN JOSE CA 95129
US

00-20-20 (hex) MEGATRON COMPUTER INDUSTRIES PTY, LTD.
002020 (base 16) MEGATRON COMPUTER INDUSTRIES PTY, LTD.

AU

00-20-1B (hex) NORTHERN TELECOM/NETWORK
00201B (base 16) NORTHERN TELECOM/NETWORK
SYSTEMS CORPORATION
CANADA K8N 5B7
CA

00-A0-18 (hex) CREATIVE CONTROLLERS, INC.
00A018 (base 16) CREATIVE CONTROLLERS, INC.
128 KENDRICK LANE
PICAYUNE MS 39466
US

00-A0-FE (hex) BOSTON TECHNOLOGY, INC.
00A0FE (base 16) BOSTON TECHNOLOGY, INC.
100 QUANNAPOWITT PARKWAY
WAKEFIELD MA 01880
US

00-A0-D9 (hex) CONVEX COMPUTER CORPORATION
00A0D9
(base 16) CONVEX COMPUTER CORPORATION
3000 WATERVIEW PARKWAY
RICHARDSON TX 75083-3851
US

00-A0-EB (hex) Encore Networks, Inc.
00A0EB (base 16) Encore Networks, Inc.
3800 Concorde Parkway,
Chantilly, VA 20151
US

00-A0-7D (hex) SEEQ TECHNOLOGY, INC.
00A07D (base 16) SEEQ TECHNOLOGY, INC.
47131 BAYSIDE PARKWAY
FREMONT CA 94538
US

00-20-9A (hex) THE 3DO COMPANY
00209A (base 16) THE 3DO COMPANY
600 GALVESTON DRIVE
REDWOOD CITY CA 94063
US

00-20-DE (hex) JAPAN DIGITAL LABORAT'Y CO.LTD
0020DE (base 16) JAPAN DIGITAL LABORAT'Y CO.LTD
JDL KAWASAKI R & D CENTER
KANAGAWA-KEN 215
JP

00-20-0B (hex) OCTAGON SYSTEMS CORP.
00200B (base 16) OCTAGON SYSTEMS CORP.
7403 Church Ranch Blvd
Westminster CO 80021

US

00-20-94 (hex) CUBIX CORPORATION
002094 (base 16) CUBIX CORPORATION
2800 LOCKHEED WAY
CARSON CITY NV 89706
US

00-20-F7 (hex) CYBERDATA
CORPORATION
0020F7 (base 16) CYBERDATA CORPORATION
3 Justin Court
MONTEREY CA 93940
US

00-20-D7 (hex) JAPAN MINICOMPUTER SYSTEMS CO., Ltd.
0020D7 (base 16) JAPAN MINICOMPUTER SYSTEMS CO., Ltd.
3-33-18 TAKAIDOHIGASHI
TOKYO 168
JP

00-20-C3 (hex) COUNTER SOLUTIONS LTD.
0020C3 (base 16) COUNTER SOLUTIONS LTD.
263 HEAGE ROAD
RIPLEY, DERBYS DE5 3GH
GB

00-20-4E (hex) NETWORK SECURITY SYSTEMS, INC.
00204E (base 16) NETWORK SECURITY SYSTEMS, INC.
9401 WAPLES STREET,STE. #100
SAN DIEGO CA 92121
US

00-20-CA (hex) DIGITAL OCEAN
0020CA (base 16) DIGITAL OCEAN
11206 THOMPSON AVENUE
LENEXA KS 66219-2303
US

00-20-95 (hex) RIVA ELECTRONICS
002095 (base 16) RIVA ELECTRONICS
UNIT 17, BARRSFOLD RD.
LANCASHIRE ENGLAND BL5 3XW
GB

00-20-3F (hex) JUKI CORPORATION
00203F (base 16) JUKI CORPORATION
8-2-1 KOKURYO-CHO

JP

00-20-90 (hex) ADVANCED COMPRESSION
TECHNOLOGY, INC.
002090 (base 16) ADVANCED COMPRESSION TECHNOLOGY, INC.
820 FLYNN ROAD
CAMARILLO CA 93012
US

00-20-62 (hex) SCORPION LOGIC, LTD.
002062 (base 16) SCORPION LOGIC, LTD.
19 BROOKSIDE ROAD
HERTS WD1 4BW
GB

00-20-81 (hex) TITAN ELECTRONICS
002081 (base 16) TITAN ELECTRONICS
3033 SCIENCE PARK ROAD
SAN DIEGO CA 92121
US

00-20-D9 (hex) PANASONIC TECHNOLOGIES, INC./MIECO-US
0020D9 (base 16) PANASONIC TECHNOLOGIES, INC./MIECO-US
1703 N. RANDALL RD.
ELGIN IL 60123
US

00-20-7E (hex) FINECOM CO., LTD.
00207E (base 16) FINECOM CO., LTD.
1108 HWAKOK-DONG, KANGSEO-KU
SEOUL
KR

00-20-4A (hex) PRONET GMBH
00204A (base 16) PRONET GMBH
KARLSTRASSE 49

DE

00-20-FF (hex) SYMMETRICAL TECHNOLOGIES
0020FF (base 16) SYMMETRICAL TECHNOLOGIES
500 HUNTMAR PARK DRIVE
HERNDON VA 22070
US

00-20-44 (hex) GENITECH PTY LTD
002044

(base 16) GENITECH PTY LTD
P.O. BOX 196

AU

00-20-A1 (hex) DOVATRON
0020A1 (base 16) DOVATRON
PRODUCTS DIVISION
LONGMONT CO 80501
US

00-20-AD (hex) LINQ SYSTEMS
0020AD (base 16) LINQ SYSTEMS
P.O. BOX 11040
TUCSON AZ 85734
US

00-20-7D (hex) ADVANCED COMPUTER APPLICATIONS
00207D (base 16) ADVANCED COMPUTER APPLICATIONS
107 PENNS TRAIL
NEWTOWN PA 18940
US

00-20-2F (hex) ZETA COMMUNICATIONS, LTD.
00202F (base 16) ZETA COMMUNICATIONS, LTD.
ZENITH HOUSE
WREXHAM, CLWYD, LL12 8LX
GB

00-20-FB (hex) OCTEL COMMUNICATIONS CORP.
0020FB (base 16) OCTEL COMMUNICATIONS CORP.
1001 MURPHY RANCH RD
MILPITAS CA 95035
US

00-20-70 (hex) HYNET, LTD.
002070 (base 16) HYNET, LTD.
102 JABOTINSKY ST.
PETACH TIKVA 49130
IL

00-20-BE (hex) LAN ACCESS CORP.
0020BE (base 16) LAN ACCESS CORP.
2730 MONTEREY STREET, STE.#102
TORRANCE CA 90503
US

00-20-F2

(hex) Oracle Corporation
0020F2 (base 16) Oracle Corporation
500 Oracle Parkway
Redwood Shores CA 94065
US

00-20-B8 (hex) PRIME OPTION, INC.
0020B8 (base 16) PRIME OPTION, INC.
2341 W. 205TH STREET #116
TORRANCE CA 90501
US

00-20-F3 (hex) RAYNET CORPORATION
0020F3 (base 16) RAYNET CORPORATION
155 CONSTITUTION DRIVE
MENLO PARK CA 94025
US

00-20-01 (hex) DSP SOLUTIONS, INC.
002001 (base 16) DSP SOLUTIONS, INC.
2464 EMBARCADERO WAY
PALO ALTO CA 94303
US

00-20-BF (hex) AEHR TEST SYSTEMS
0020BF (base 16) AEHR TEST SYSTEMS
1667 PLYMOUTH STREET
MOUNTAIN VIEW CA 94043
US

00-20-53 (hex) HUNTSVILLE MICROSYSTEMS, INC.
002053 (base 16) HUNTSVILLE MICROSYSTEMS, INC.
P.O. BOX 12415
HUNTSVILLE AL 35815
US

00-20-A9 (hex) WHITE HORSE INDUSTRIAL
0020A9 (base 16) WHITE HORSE INDUSTRIAL
4F. NO.16, ALLEY 56, LANE 181

TW

00-20-96
(hex) Invensys
002096 (base 16) Invensys
Robershaw Industrial Products
Marysville TN 37801
US

00-20-EF (hex) USC CORPORATION
0020EF (base 16) USC CORPORATION
6-4, OSAKI 1-CHOME
141
JP

00-20-30 (hex) ANALOG & DIGITAL SYSTEMS
002030 (base 16) ANALOG & DIGITAL SYSTEMS
1/2 LAVELLE ROAD

IN

00-20-AC (hex) INTERFLEX DATENSYSTEME GMBH
0020AC (base 16) INTERFLEX DATENSYSTEME GMBH
GROBWIESENSTRASE 24
WESTGERMANY
DE

00-20-D8 (hex) Nortel Networks
0020D8 (base 16) Nortel Networks
4401 Great America Pkwy.
Santa Clara CA 94588
US

00-C0-E1 (hex) SONIC SOLUTIONS
00C0E1 (base 16) SONIC SOLUTIONS
1891 E. FRANCISCO BLVD.
SAN RAFAEL CA 94901
US

00-C0-0F (hex) QUANTUM SOFTWARE SYSTEMS LTD.
00C00F (base 16) QUANTUM SOFTWARE SYSTEMS LTD.
175 TERRENCE MATTHEWS CRESCENT
K2L 3T5
CA

00-C0-87 (hex) UUNET TECHNOLOGIES, INC.
00C087 (base
16) UUNET TECHNOLOGIES, INC.
3110 FAIRVIEW PARK DR. #570
FALLS CHURCH VA 22042
US

00-20-36 (hex) BMC SOFTWARE
002036 (base 16) BMC SOFTWARE
1600 CITY WEST BLVD., #1600
HOUSTON TX 77042

US

00-20-F8 (hex) CARRERA COMPUTERS, INC.
0020F8 (base 16) CARRERA COMPUTERS, INC.
23181 VERDUGO DRIVE-STE.#105A
LAGUNA HILLS CA 92653
US

00-C0-06 (hex) NIPPON AVIONICS CO., LTD.
00C006 (base 16) NIPPON AVIONICS CO., LTD.
INDUSTRIAL SYSTEM DIVISION

JP

00-C0-A4 (hex) UNIGRAF OY
00C0A4 (base 16) UNIGRAF OY
RUUKINTIE 18

FI

00-C0-29 (hex) Nexans Deutschland GmbH - ANS
00C029 (base 16) Nexans Deutschland GmbH - ANS
Bonnenbroicher Str. 100

DE

00-C0-FA (hex) CANARY COMMUNICATIONS, INC.
00C0FA (base 16) CANARY COMMUNICATIONS, INC.
1851 ZANKER ROAD
SAN JOSE CA 95112-4213
US

00-C0-79 (hex) FONSYS CO.,LTD.
00C079 (base 16) FONSYS CO.,LTD.
209-5,
YANGJAE, SEOCHO
KOREA
KR

00-C0-2F (hex) OKUMA CORPORATION
00C02F (base 16) OKUMA CORPORATION
OGUCHI-CHO, NIWA-GUN

JP

00-C0-1E (hex) LA FRANCAISE DES JEUX
00C01E (base 16) LA FRANCAISE DES JEUX
CENTRE DE ROUSSY/DTI

FR

00-C0-65 (hex) SCOPE COMMUNICATIONS, INC.
00C065 (base 16) SCOPE COMMUNICATIONS, INC.
100 OTIS STREET
NORTHBORO MA 01532
US

00-20-66 (hex) GENERAL MAGIC, INC.
002066 (base 16) GENERAL MAGIC, INC.
2465 LATHAM STREET
MOUNTAIN VIEW CA 94040
US

00-C0-1B (hex) SOCKET COMMUNICATIONS, INC.
00C01B (base 16) SOCKET COMMUNICATIONS, INC.
2823 WHIPPLE RD.
UNION CITY CA 94587
US

00-40-6F (hex) SYNC RESEARCH INC.
00406F (base 16) SYNC RESEARCH INC.
7 STUDEBAKER
IRVINE CA 92718
US

00-40-4F (hex) SPACE & NAVAL WARFARE SYSTEMS
00404F (base 16) SPACE & NAVAL WARFARE SYSTEMS
NUWC
NEWPORT RI 02841-5047
US

00-40-8F
(hex) WM-DATA MINFO AB
00408F (base 16) WM-DATA MINFO AB
OLOF ASKLUNDS GATA 14

SE

00-40-D7 (hex) STUDIO GEN INC.
0040D7 (base 16) STUDIO GEN INC.
3-12-8 TAKANAWA #202

JP

00-40-57 (hex) LOCKHEED - SANDERS
004057 (base 16) LOCKHEED - SANDERS

DANIEL WEBSTER HIGHWAY SOUTH
NASHUA NH 03061-0868
US

00-C0-53 (hex) Aspect Software Inc.
00C053 (base 16) Aspect Software Inc.
6 Technology Park Drive
Westford MA 01886
US

00-C0-CC (hex) TELESCIENCES CO SYSTEMS, INC.
00C0CC (base 16) TELESCIENCES CO SYSTEMS, INC.
351 NEW ALBANY RD.
MOORESTOWN NJ 08057-1177
US

00-C0-D9 (hex) QUINTE NETWORK CONFIDENTIALITY
00C0D9 (base 16) QUINTE NETWORK CONFIDENTIALITY
EQUIPMENT INC.
CANADA K8N 1C3
CA

00-C0-B1 (hex) GENIUS NET CO.
00C0B1 (base 16) GENIUS NET CO.
4F, HANSOO B/D 210-5
SOUTH KOREA
KR

00-C0-D2 (hex) SYNTELLECT, INC.
00C0D2 (base 16) SYNTELLECT,
INC.
15810 N. 28TH AVENUE
PHOENIX AZ 85023
US

00-C0-7E (hex) KUBOTA CORPORATION ELECTRONIC
00C07E (base 16) KUBOTA CORPORATION ELECTRONIC
DEVICE DEPT.
JAPAN #581
JP

00-C0-DD (hex) QLogic Corporation
00C0DD (base 16) QLogic Corporation
6321 Bury Dr.
Eden Prarie MN 55346
US

00-C0-71 (hex) AREANEX COMMUNICATIONS, INC.

00C071 (base 16) AREANEX COMMUNICATIONS, INC.
3333 OCTAVIUS DRIVE UNIT C
SANTA CLARA CA 95051
US

00-C0-C4 (hex) COMPUTER OPERATIONAL
00C0C4 (base 16) COMPUTER OPERATIONAL
REQUIREMENT ANALYSTS LTD
GU12 4LZ GU12 4LZ ENGLAND
GB

00-C0-12 (hex) NETSPAN CORPORATION
00C012 (base 16) NETSPAN CORPORATION
1411 E. CAMPBELL RD
RICHARDSON TX 75081
US

00-40-17 (hex) Silex Technology America
004017 (base 16) Silex Technology America
157 West 7065 South
Salt Lake City UT 84047
US

00-C0-40 (hex) ECCI
00C040 (base 16) ECCI
15070-B
AVENUE OF SCIENCE
SAN DIEGO CA 92128
US

00-C0-1C (hex) INTERLINK COMMUNICATIONS LTD.
00C01C (base 16) INTERLINK COMMUNICATIONS LTD.
BRUNEL ROAD,
ENGLAND
GB

00-C0-96 (hex) TAMURA CORPORATION
00C096 (base 16) TAMURA CORPORATION
COMMUNICATION SYSTEMS DIV.

JP

00-C0-44 (hex) EMCOM CORPORATION
00C044 (base 16) EMCOM CORPORATION
840 AVENUE
PLANO TX 75074
US

00-C0-E6 (hex) Verilink Corporation
00C0E6 (base 16) Verilink Corporation
127 Jetplex Circle
Madison AL 35758
US

00-C0-42 (hex) DATALUX CORP.
00C042 (base 16) DATALUX CORP.
2836 CESSNA DRIVE
WINCHESTER VA 22601
US

00-C0-3F (hex) STORES AUTOMATED SYSTEMS, INC.
00C03F (base 16) STORES AUTOMATED SYSTEMS, INC.
1360 ADAMS ROAD
BENSALEM PA 19020
US

00-C0-36 (hex) RAYTECH ELECTRONIC CORP.
00C036 (base 16) RAYTECH ELECTRONIC CORP.
2F, NO.6, LANE 497
TAIWAN R.O.C.
TW

00-C0-4E
(hex) COMTROL CORPORATION
00C04E (base 16) COMTROL CORPORATION
2675 PATTON ROAD
ST. PAUL MN 55113
US

00-C0-A2 (hex) INTERMEDIUM A/S
00C0A2 (base 16) INTERMEDIUM A/S
ODINSVEJ 19

DK

00-C0-20 (hex) ARCO ELECTRONIC, CONTROL LTD.
00C020 (base 16) ARCO ELECTRONIC, CONTROL LTD.
2750 NORTH 29TH AVE.-STE.#316
HOLLYWOOD FL 33020
US

00-C0-E7 (hex) FIBERDATA AB
00C0E7 (base 16) FIBERDATA AB
P.O. BOX 20095

SE

00-C0-5F (hex) FINE-PAL COMPANY LIMITED
00C05F (base 16) FINE-PAL COMPANY LIMITED
RM. 9, 11F, KINGSFORD IND. CTR
HONG KONG
HK

00-C0-CE (hex) CEI SYSTEMS & ENGINEERING PTE
00C0CE (base 16) CEI SYSTEMS & ENGINEERING PTE
BLK 73 #02-18 AYER RAJAH CRESC
SINGAPORE 0513
SG

00-C0-8E (hex) NETWORK INFORMATION TECHNOLOGY
00C08E (base 16) NETWORK INFORMATION TECHNOLOGY
10430 S. DE ANZA BLVD.
CUPERTINO CA 95014
US

00-C0-C7
(hex) SPARKTRUM MICROSYSTEMS, INC.
00C0C7 (base 16) SPARKTRUM MICROSYSTEMS, INC.
2860 ZANKER ROAD, STE.#210
SAN JOSE CA 95134
US

00-40-F3 (hex) NETCOR
0040F3 (base 16) NETCOR
850 AUBURN COURT
FREMONT CA 94538
US

00-40-4B (hex) MAPLE COMPUTER SYSTEMS
00404B (base 16) MAPLE COMPUTER SYSTEMS
P.O. BOX 10050
CANADA ALA 4L5
CA

00-40-F8 (hex) SYSTEMHAUS DISCOM
0040F8 (base 16) SYSTEMHAUS DISCOM
DISTRIBUTED COMPUTING GMBH

DE

00-40-24 (hex) COMPAC INC.
004024 (base 16) COMPAC INC.
16-7 NIHONBASI HAMACHO 3-CHO

JP

00-40-D2 (hex) PAGINE CORPORATION
0040D2 (base 16) PAGINE CORPORATION
1961-A CONCOURSE DRIVE
SAN JOSE CA 95131
US

00-40-E9 (hex) ACCORD SYSTEMS, INC.
0040E9 (base 16) ACCORD SYSTEMS, INC.
572 VALLEY WAY
MILPITAS CA 95035
US

00-40-33 (hex) ADDTRON TECHNOLOGY CO., LTD.
004033 (base 16) ADDTRON TECHNOLOGY CO., LTD.
46560
FREMONT BLVD. #303
FREMONT CA 94538
US

00-40-AD (hex) SMA REGELSYSTEME GMBH
0040AD (base 16) SMA REGELSYSTEME GMBH
HANNOVERSCHE STR. 1-5

DE

00-40-6D (hex) LANCO, INC.
00406D (base 16) LANCO, INC.
800 WEST AIRPORT FREEWAY
IRVING TX 75062
US

00-40-CD (hex) TERA MICROSYSTEMS, INC.
0040CD (base 16) TERA MICROSYSTEMS, INC.
2500 GREAT AMERICA PARKWAY
SANTA CLARA CA 95054
US

00-40-F5 (hex) OEM ENGINES
0040F5 (base 16) OEM ENGINES
1190 DELL AVENUE, STE.
CAMPBELL CA 95008
US

00-40-AE (hex) DELTA CONTROLS, INC.
0040AE (base 16) DELTA CONTROLS, INC.
13520 78TH AVENUE

CANADA V3W 8J6
CA

00-40-F6 (hex) KATRON COMPUTERS INC.
0040F6 (base 16) KATRON COMPUTERS INC.
4 FL. NO. 2, ALLEY 23
TAIPEI TAIPEI TAIWAN
TW

00-40-86 (hex) MICHELS & KLEBERHOFF COMPUTER
004086 (base 16) MICHELS & KLEBERHOFF COMPUTER
GATHE 117

DE

00-40-92
(hex) ASP COMPUTER PRODUCTS, INC.
004092 (base 16) ASP COMPUTER PRODUCTS, INC.
160 SAN GABRIEL DRIVE
SUNNYVALE CA 94086
US

00-40-68 (hex) EXTENDED SYSTEMS
004068 (base 16) EXTENDED SYSTEMS
6123 NORTH MEEKER AVENUE
BOISE ID 83704
US

00-40-78 (hex) WEARNES AUTOMATION PTE LTD
004078 (base 16) WEARNES AUTOMATION PTE LTD
801 LORONG 7, TOA PAYOH
SINGAPORE 1231
SG

00-40-39 (hex) OPTEC DAIICHI DENKO CO., LTD.
004039 (base 16) OPTEC DAIICHI DENKO CO., LTD.
FIBER OPTICS & TELECOM. DIV.
JAPAN

00-40-79 (hex) JUKO MANUFACTURE COMPANY, LTD.
004079 (base 16) JUKO MANUFACTURE COMPANY, LTD.
FLAT C, 3RD FLOOR, CDW BLDG.
HONG KONG
HK

00-40-59 (hex) YOSHIDA KOGYO K. K.
004059 (base 16) YOSHIDA KOGYO K. K.

TECHNICAL RESEARCH DEPT.
939
JP

00-40-B0 (hex) BYTEX CORPORATION, ENGINEERING
0040B0 (base 16) BYTEX CORPORATION, ENGINEERING
13873 PARK CENTER
ROAD
HERNDON VA 22071
US

00-80-D9 (hex) EMK Elektronik GmbH & Co. KG
0080D9 (base 16) EMK Elektronik GmbH & Co. KG
Obere Bergstrasse 28
75335 Dobel
DE

00-40-F4 (hex) CAMEO COMMUNICATIONS, INC.
0040F4 (base 16) CAMEO COMMUNICATIONS, INC.
71 SPITBROOK ROAD, STE #410
NASHUA NH 030603
US

00-40-B4 (hex) NEXTCOM K.K.
0040B4 (base 16) NEXTCOM K.K.
1-12-1 SHIBUYA

JP

00-40-B9 (hex) MACQ ELECTRONIQUE SA
0040B9 (base 16) MACQ ELECTRONIQUE SA
RUE DE L'AERONEF 2

BE

00-40-BB (hex) GOLDSTAR CABLE CO., LTD.
0040BB (base 16) GOLDSTAR CABLE CO., LTD.
555, HOGYE-DONG, ANYANG-SHI
KOREA
KR

00-40-B1 (hex) CODONICS INC.
0040B1 (base 16) CODONICS INC.
17991 ENGLEWOOD DRIVE
MIDDLEBURG HTS OH 44130
US

00-40-61 (hex) DATATECH ENTERPRISES CO., LTD.

004061 (base 16) DATATECH ENTERPRISES CO., LTD.
(LIN KOU INDUSTRIAL ZONE SEC,4
TAOYUAN COUNTY
TAIWAN R.O.C.
TW

00-00-8C (hex) Alloy Computer Products (Australia) Pty Ltd
00008C (base 16) Alloy Computer Products (Australia) Pty Ltd
Unit 4/585 Blackburn Road
Notting Hill Victoria 3168
AU

00-40-C5 (hex) MICOM COMMUNICATIONS INC.
0040C5 (base 16) MICOM COMMUNICATIONS INC.
4100 LOS ANGELES AVENUE
SIMI VALLEY CA 93063
US

00-40-20 (hex) CommScope Inc
004020 (base 16) CommScope Inc
Unit 1, Kinmel Park
Bodelwyddan RHYL LL18 5TZ
GB

00-40-7F (hex) FLIR Systems
00407F (base 16) FLIR Systems
BOX 3

SE

00-40-95 (hex) R.P.T. INTERGROUPS INT'L LTD.
004095 (base 16) R.P.T. INTERGROUPS INT'L LTD.
9F, 50 MIN CHUAN RD
TAIWAN TAIWAN R.O.C.
TW

00-40-35 (hex) OPCOM
004035 (base 16) OPCOM
1215 W. CROSBY RD.
CARROLLTON TX 75006
US

00-40-5C (hex) FUTURE SYSTEMS, INC.
00405C (base 16) FUTURE SYSTEMS, INC.
ROOM 102 DONG BANG B/D,
SEOUL 130-080
SEOUL 130-080 KOREA
KR

00-40-A0 (hex) GOLDSTAR CO., LTD.
0040A0 (base 16) GOLDSTAR CO., LTD.
6 GA 3B MUNLAE YEONGDEUNGPO
KOREA
KR

00-40-FC (hex) IBR COMPUTER TECHNIK GMBH
0040FC (base 16) IBR COMPUTER TECHNIK GMBH
FRANKFURTER STR. 114
WEST
DE

00-40-DE (hex) Elsag Datamat spa
0040DE (base 16) Elsag Datamat spa
ELSAG S.P.A.
GENOVA 16154
IT

00-40-C9 (hex) NCUBE
0040C9 (base 16) NCUBE
919 EAST HILLSDALE BLVD.
FOSTER CITY CA 94404
US

00-40-03 (hex) Emerson Process Management Power & Water Solutions, Inc.
004003 (base 16) Emerson Process Management Power & Water Solutions, Inc.
200 Beta Drive
PITTSBURGH PA 15238
US

00-40-90 (hex) ANSEL COMMUNICATIONS
004090 (base 16) ANSEL COMMUNICATIONS
1701 JUNCTION COURT
SAN JOSE CA 95112
US

00-40-7C (hex) QUME CORPORATION
00407C (base 16) QUME CORPORATION
500 YOSEMITE DRIVE, M/S-29
MILPITAS
CA 95035-5426
US

00-40-44 (hex) QNIX COMPUTER CO., LTD.
004044 (base 16) QNIX COMPUTER CO., LTD.
8,9F KOREAN TEACHER'S MUT.BLDG
SEOUL KOREA 150-010

KR

00-40-48 (hex) SMD INFORMATICA S.A.
004048 (base 16) SMD INFORMATICA S.A.
LARGO MOVIMENTO DAS FORCAS

PT

00-40-2D (hex) HARRIS ADACOM CORPORATION
00402D (base 16) HARRIS ADACOM CORPORATION
1100 VENTURE COURT
CARROLLTON TX 75006-5412
US

00-80-6F (hex) ONELAN LTD.
00806F (base 16) ONELAN LTD.
P.O. BOX 107
UNITED KINGDOM
GB

00-80-81 (hex) KENDALL SQUARE RESEARCH CORP.
008081 (base 16) KENDALL SQUARE RESEARCH CORP.
170 TRACER LANE
WALTHAM MA 02154-1379
US

00-80-9C (hex) LUXCOM, INC.
00809C (base 16) LUXCOM, INC.
3249 LAURELVIEW COURT
FREMONT CA 94538
US

00-80-65 (hex) CYBERGRAPHIC SYSTEMS PTY LTD.
008065 (base 16) CYBERGRAPHIC SYSTEMS PTY LTD.
290 BURWOOD ROAD

AU

00-80-19
(hex) DAYNA COMMUNICATIONS, INC.
008019 (base 16) DAYNA COMMUNICATIONS, INC.
50 SOUTH MAIN STREET-#530
SALT LAKE CITY UTAH 84144
US

00-80-F3 (hex) SUN ELECTRONICS CORP.
0080F3 (base 16) SUN ELECTRONICS CORP.
250 ASAHI KOCHINO-CHO

483
JP

00-80-99 (hex) Eaton Industries GmbH
008099 (base 16) Eaton Industries GmbH
Hein-Moeller - Straße 7-11

DE

00-80-8D (hex) WESTCOAST TECHNOLOGY B.V.
00808D (base 16) WESTCOAST TECHNOLOGY B.V.
P.O. BOX 3317

NL

00-80-BE (hex) ARIES RESEARCH
0080BE (base 16) ARIES RESEARCH
46791 FREMOND BLVD.
FREMONT CA 94538
US

00-80-15 (hex) SEIKO SYSTEMS, INC.
008015 (base 16) SEIKO SYSTEMS, INC.
8,Nakase 1-chome,Mihama-ku

JP

00-40-DF (hex) DIGALOG SYSTEMS, INC.
0040DF (base 16) DIGALOG SYSTEMS, INC.
3180 SOUTH 166TH STREET
NEW BERLIN WI 53151
US

00-40-09 (hex) TACHIBANA TECTRON CO., LTD.
004009
(base 16) TACHIBANA TECTRON CO., LTD.
SYSTEMATIC EQUIPMENT DIVISION

JP

00-80-D2 (hex) SHINNIHONDENKO CO., LTD.
0080D2 (base 16) SHINNIHONDENKO CO., LTD.
6-8 NISHITENMA 2 CHOME

JP

00-80-89 (hex) TECNETICS (PTY) LTD.
008089 (base 16) TECNETICS (PTY) LTD.

P.O. BOX/POSBUS 56412
SOUTH AFRICA
ZA

00-80-AF (hex) ALLUMER CO., LTD.
0080AF (base 16) ALLUMER CO., LTD.
2-8-8 CHUO-CHO, MEGURO-KU

JP

00-80-84 (hex) THE CLOUD INC.
008084 (base 16) THE CLOUD INC.
CLOUD BLDG.
KOREA
KR

00-80-50 (hex) ZIATECH CORPORATION
008050 (base 16) ZIATECH CORPORATION
3433 ROBERTO COURT
SAN LUIS OBISPO CA 93401
US

00-80-A4 (hex) LIBERTY ELECTRONICS
0080A4 (base 16) LIBERTY ELECTRONICS
332 HARBOR WAY
SOUTH SAN FRANCISCO CA 94080
US

00-80-A6 (hex) REPUBLIC TECHNOLOGY, INC.
0080A6 (base 16) REPUBLIC TECHNOLOGY, INC.
P.O. BOX 141006
AUSTIN
TX 78714
US

00-80-32 (hex) ACCESS CO., LTD.
008032 (base 16) ACCESS CO., LTD.
HIEI-KUDAN BLDG. B1

JP

00-80-CF (hex) EMBEDDED PERFORMANCE INC.
0080CF (base 16) EMBEDDED PERFORMANCE INC.
3385 SCOTT BLVD.
SANTA CLARA CA 95054-3115
US

00-80-90 (hex) MICROTEK INTERNATIONAL, INC.

008090 (base 16) MICROTEK INTERNATIONAL, INC.
3300 NW 211TH TERRACE
HILLSBOR OR 97124-7136
US

00-80-C4 (hex) DOCUMENT TECHNOLOGIES, INC.
0080C4 (base 16) DOCUMENT TECHNOLOGIES, INC.
1300 CHARLESTON ROAD
MOUNTAIN VIEW CA 94043
US

00-80-5B (hex) CONDOR SYSTEMS, INC.
00805B (base 16) CONDOR SYSTEMS, INC.
2133 SAMARILTAN DRIVE
SAN JOSE CA 95124
US

00-80-43 (hex) NETWORLD, INC.
008043 (base 16) NETWORLD, INC.
KANDA 3 AMEREX BLDG.

JP

00-80-52 (hex) TECHNICALLY ELITE CONCEPTS
008052 (base 16) TECHNICALLY ELITE CONCEPTS
2615 PACIFIC COAST HIGHWAY
HERMOSA BEACH
CA 90250
US

00-80-5D (hex) CANSTAR
00805D (base 16) CANSTAR
3900 VICTORIA PARK AVENUE
M2H 3H7
CA

00-80-4F (hex) DAIKIN INDUSTRIES, LTD.
00804F (base 16) DAIKIN INDUSTRIES, LTD.
ELECTRONICS DIVISION
JAPAN 525
JP

00-80-05 (hex) CACTUS COMPUTER INC.
008005 (base 16) CACTUS COMPUTER INC.
1120 METROCREST DRIVE
CARROLLTON TX 75006
US

00-80-6D (hex) CENTURY SYSTEMS CORP.
00806D (base 16) CENTURY SYSTEMS CORP.
2-8-12 MINAMI-CHO
185
JP

00-80-94 (hex) ALFA LAVAL AUTOMATION AB
008094 (base 16) ALFA LAVAL AUTOMATION AB
ADN

SE

00-80-02 (hex) SATELCOM (UK) LTD
008002 (base 16) SATELCOM (UK) LTD
TECHNOLOGY TRANSFER CENTRE
ENGLAND
GB

00-80-64 (hex) WYSE TECHNOLOGY LLC
008064 (base 16) WYSE TECHNOLOGY LLC
3471 NORTH FIRST STREET M/S
SAN JOSE CA 95134
US

00-80-48 (hex) COMPEX INCORPORATED
008048 (base 16) COMPEX INCORPORATED
4055
EAST LA PALMA
ANAHEIM CA 92807
US

00-80-30 (hex) NEXUS ELECTRONICS
008030 (base 16) NEXUS ELECTRONICS
39 SPRINGFIELD ROAD
UNITED KINGDOM
GB

00-00-55 (hex) COMMISSARIAT A L`ENERGIE ATOM.
000055 (base 16) COMMISSARIAT A L`ENERGIE ATOM.
31, RUE DE LA FEDERATION

FR

00-00-41 (hex) ICE CORPORATION
000041 (base 16) ICE CORPORATION
17945 SKYPARK CIRCLE
IRVINE CA 92714
US

00-00-86 (hex) MEGAHERTZ CORPORATION
000086 (base 16) MEGAHERTZ CORPORATION
605 NORTH--5600 WEST
SALT LAKE CITY UT 84116-3738
US

00-00-92 (hex) COGENT DATA TECHNOLOGIES
000092 (base 16) COGENT DATA TECHNOLOGIES
640 MULLIS STREET
FRIDAY HARBOR WA 98250
US

00-80-85 (hex) H-THREE SYSTEMS CORPORATION
008085 (base 16) H-THREE SYSTEMS CORPORATION
100 PARK DRIVE, SUITE 204
NC 27709
US

00-80-4C (hex) CONTEC CO., LTD.
00804C (base 16) CONTEC CO., LTD.
3-9-31,
HIMESATO

JP

00-80-8F (hex) C. ITOH ELECTRONICS, INC.
00808F (base 16) C. ITOH ELECTRONICS, INC.
2505 MCCABE WAY
IRVINE CA 92714
US

00-00-52 (hex) Intrusion.com, Inc.
000052 (base 16) Intrusion.com, Inc.
1101 E. ARAPAHO ROAD
RICHARDSON TX 75081

00-80-FF (hex) SOC. DE TELEINFORMATIQUE RTC
0080FF (base 16) SOC. DE TELEINFORMATIQUE RTC
P.O. BOX 955 PLACE DU PARC
CANADA H2W 2N1

00-80-EE (hex) THOMSON CSF
0080EE (base 16) THOMSON CSF
51 ESPLANADE DU GENERAL

FR

00-80-8E (hex) RADSTONE TECHNOLOGY
00808E (base 16) RADSTONE TECHNOLOGY
WATER LANE, TOWCESTER
ENGLAND
GB

00-80-96 (hex) HUMAN DESIGNED SYSTEMS, INC.
008096 (base 16) HUMAN DESIGNED SYSTEMS, INC.
421 FEHELEY DRIVE
KING OF PRUSSIA PA 19406
US

00-80-DA (hex) Hottinger Brüel & Kjær A/S
0080DA (base 16) Hottinger Brüel & Kjær A/S
Teknikerbyen 28
Virum DK-2830
DK

00-80-3E
(hex) SYNERNETICS
00803E (base 16) SYNERNETICS
85 RANGEWAY ROAD
NORTH BILLERICA MA 01862
US

00-80-0C (hex) VIDECOM LIMITED
00800C (base 16) VIDECOM LIMITED
NEWTOWN ESTATE
ENGLAND
GB

00-80-7D (hex) EQUINOX SYSTEMS INC.
00807D (base 16) EQUINOX SYSTEMS INC.
14260 SW 119TH AVENUE
MIAMI FL 33186
US

00-80-63 (hex) Hirschmann Automation and Control GmbH
008063 (base 16) Hirschmann Automation and Control GmbH
Stuttgarter Straße 45-51
Neckartenzlingen D-72654
DE

00-80-74 (hex) FISHER CONTROLS
008074 (base 16) FISHER CONTROLS
1712 CENTRE CREEK DRIVE

AUSTIN TX 78754
US

00-80-CD (hex) MICRONICS COMPUTER, INC.
0080CD (base 16) MICRONICS COMPUTER, INC.
45365 NORTHPORT LOOP WEST
FREMONT CA 94538
US

00-80-03 (hex) HYTEC ELECTRONICS LTD.
008003 (base 16) HYTEC ELECTRONICS LTD.
5 CRADOCK ROAD
ENGLAND
GB

00-80-C9 (hex) ALBERTA
MICROELECTRONIC CENTRE
0080C9 (base 16) ALBERTA MICROELECTRONIC CENTRE
318, 11315 - 87 AVENUE

CA

00-00-58 (hex) RACORE COMPUTER PRODUCTS INC.
000058 (base 16) RACORE COMPUTER PRODUCTS INC.
2355 SOUTH 1070 WEST
SALT LAKE CITY UT 84119
US

00-80-CE (hex) BROADCAST TELEVISION SYSTEMS
0080CE (base 16) BROADCAST TELEVISION SYSTEMS
P.O. BOX 30816
Utah 84130-0816
US

00-80-1A (hex) BELL ATLANTIC
00801A (base 16) BELL ATLANTIC
N92 W14612 ANTHONY AVENUE
MENOMONEE FALLS WI 53051
US

00-80-DE (hex) GIPSI S.A.
0080DE (base 16) GIPSI S.A.
2,BD VAUBAN - B.P. 268

FR

00-00-0D (hex) FIBRONICS LTD.
00000D (base 16) FIBRONICS LTD.

MATAM TECHNOLOGY CENTER

IL

00-00-0A (hex) OMRON TATEISI ELECTRONICS CO.
00000A (base 16) OMRON TATEISI ELECTRONICS CO.
SECTION NFF, SYSTEM R&D LABS.
KYOTO 617
JP

00-00-24 (hex) CONNECT AS
000024 (base 16) CONNECT
AS
HOERKAER 7-9

DK

00-00-F7 (hex) YOUTH KEEP ENTERPRISE CO LTD
0000F7 (base 16) YOUTH KEEP ENTERPRISE CO LTD
3/F NO. 712 MINTSU E. ROAD
ROC
TW

00-00-C7 (hex) ARIX CORPORATION
0000C7 (base 16) ARIX CORPORATION
ENGINEERING MAIL STOP
SUNNYVALE CA 94089
US

00-00-D1 (hex) ADAPTEC INCORPORATED
0000D1 (base 16) ADAPTEC INCORPORATED
M/S 180
MILPITAS CA 95035
US

00-00-CF (hex) HAYES MICROCOMPUTER PRODUCTS
0000CF (base 16) HAYES MICROCOMPUTER PRODUCTS
(CANADA) LTD.

CA

00-00-EF (hex) KTI
0000EF (base 16) KTI
2157 O'TOOLE AVENUE
SAN JOSE CA 95131
US

00-00-25 (hex) RAMTEK CORP.

000025 (base 16) RAMTEK CORP.
810 W. MAUDE AVENUE
SUNNYVALE CA 94086
US

00-00-76 (hex) ABEKAS VIDEO SYSTEM
000076 (base 16) ABEKAS VIDEO SYSTEM
101 GALVESTON DRIVE
REDWOOD CITY CA 94063
US

00-00-F3 (hex) GANDALF DATA LIMITED
0000F3
(base 16) GANDALF DATA LIMITED
130 COLONNADE ROAD SOUTH

CA

00-00-16 (hex) DU PONT PIXEL SYSTEMS .
000016 (base 16) DU PONT PIXEL SYSTEMS .
MEADLAKE PLACE
ENGLAND
GB

00-00-E2 (hex) ACER TECHNOLOGIES CORP.
0000E2 (base 16) ACER TECHNOLOGIES CORP.
401 CHARCOT AVE.
SAN JOSE CA 95131
US

00-00-E1 (hex) GRID SYSTEMS
0000E1 (base 16) GRID SYSTEMS
47211 LAKEVIEW BOULEVARD
FREMONT CA 94537-5003
US

00-00-67 (hex) SOFT * RITE, INC.
000067 (base 16) SOFT * RITE, INC.
15392 ASSEMBLY LANE, UNIT A
HUNTINGTON BEACH CA 92649
US

00-00-D2 (hex) SBE, INC.
0000D2 (base 16) SBE, INC.
4550 NORTH CANYON ROAD
SAN RAMON CA 94583
US

00-00-BA (hex) SIIG, INC.
0000BA (base 16) SIIG, INC.
6078 STEWART AVENUE
FREMONT CA 94538
US

00-00-81 (hex) Bay Networks
000081 (base 16) Bay Networks
PO Box 58185
Santa Clara CA 95052-8185
US

00-00-29
(hex) IMC NETWORKS CORP.
000029 (base 16) IMC NETWORKS CORP.
16931 MILLIKEN AVE.
IRVINE CA 92714-5013
US

00-00-37 (hex) OXFORD METRICS LIMITED
000037 (base 16) OXFORD METRICS LIMITED
UNIT 8, 7 WEST WAY,
UNITED KINGDOM
GB

00-00-FB (hex) RECHNER ZUR KOMMUNIKATION
0000FB (base 16) RECHNER ZUR KOMMUNIKATION
BITZENSTR. 11

DE

00-00-AF (hex) Canberra Industries, Inc.
0000AF (base 16) Canberra Industries, Inc.
800 Research Parkway
Meriden CT 06450
US

08-00-82 (hex) VERITAS SOFTWARE
080082 (base 16) VERITAS SOFTWARE
4800 GREAT AMERICA PARKWAY
SANTA CLARA CA 95054
US

08-00-80 (hex) AES DATA INC.
080080 (base 16) AES DATA INC.
1900 MINNESOTA COURT
CANADA L5N L5N 3C9
CA

08-00-7B (hex) SANYO ELECTRIC CO. LTD.
08007B (base 16) SANYO ELECTRIC CO. LTD.
1-18-13 HASHIRIDANI
OSAKA 573
JP

08-00-7C (hex) VITALINK COMMUNICATIONS
CORP.
08007C (base 16) VITALINK COMMUNICATIONS CORP.
48761 KATO ROAD
FREMONT CA 94538
US

00-00-B0 (hex) RND-RAD NETWORK DEVICES
0000B0 (base 16) RND-RAD NETWORK DEVICES
ATIDIM TECHNOL'CL BLDG. 1

IL

00-00-2A (hex) TRW - SEDD/INP
00002A (base 16) TRW - SEDD/INP
1800 GLENN CURTISS STREET
CARSON CA 90746
US

00-00-2C (hex) AUTOTOTE LIMITED
00002C (base 16) AUTOTOTE LIMITED
100 BELLEVUE ROAD
NEWARK DELAWARE 19714
US

08-00-77 (hex) TSL COMMUNICATIONS LTD.
080077 (base 16) TSL COMMUNICATIONS LTD.
THE LANDSBURY ESTATE
ENGLAND
GB

08-00-74 (hex) CASIO COMPUTER CO. LTD.
080074 (base 16) CASIO COMPUTER CO. LTD.
3-2-1 SAKAE-CHO
190-11
JP

08-00-6E (hex) MASSCOMP
08006E (base 16) MASSCOMP
ONE TECHNOLOGY PARK
WESTFORD MA 01886

US

08-00-68 (hex) RIDGE COMPUTERS
080068 (base 16) RIDGE COMPUTERS
2451 MISSION COLLEGE BLVD.
SANTA
CLARA CA 95054
US

08-00-63 (hex) PLESSEY
080063 (base 16) PLESSEY
PLESSEY - UK LIMITED
JAMAICA NY 11434
US

08-00-60 (hex) INDUSTRIAL NETWORKING INC.
080060 (base 16) INDUSTRIAL NETWORKING INC.
3990 FREEDOM CIRCLE
SANTA CLARA CA 95050
US

00-00-6C (hex) Private
00006C (base 16) Private

00-00-A9 (hex) NETWORK SYSTEMS CORP.
0000A9 (base 16) NETWORK SYSTEMS CORP.
7600 BOONE AVENUE NORTH
MINNEAPOLIS MN 55428-1099
US

08-00-8E (hex) Tandem Computers
08008E (base 16) Tandem Computers
14231 Tendem Blvd.
Austin TX 78728 - 6610
US

08-00-84 (hex) TOMEN ELECTRONICS CORP.
080084 (base 16) TOMEN ELECTRONICS CORP.
1-1 UCHISAIWAI-CHO 2CHOME

JP

08-00-85 (hex) ELXSI
080085 (base 16) ELXSI
2334 LUNDY PLACE
SAN JOSE CA 95131
US

00-00-DF (hex) BELL & HOWELL PUB SYS DIV
0000DF (base 16) BELL & HOWELL PUB SYS DIV
OLD MANSFIELD ROAD
WOOSTER
OH 44691-9050
US

00-00-F9 (hex) QUOTRON SYSTEMS INC.
0000F9 (base 16) QUOTRON SYSTEMS INC.
5454 BEETHOVEN ST.
LOS ANGELES CA 90066
US

08-00-55 (hex) STANFORD TELECOMM. INC.
080055 (base 16) STANFORD TELECOMM. INC.
1221 CROSSMAN
SUNNYVALE CA 94089
US

08-00-53 (hex) MIDDLE EAST TECH. UNIVERSITY
080053 (base 16) MIDDLE EAST TECH. UNIVERSITY
DEPARTMENT OF
ANKARA
TR

08-00-44 (hex) DAVID SYSTEMS INC.
080044 (base 16) DAVID SYSTEMS INC.
615 TASMAN DRIVE
SUNNYVALE CA 94088
US

08-00-41 (hex) RACAL-MILGO INFORMATION SYS..
080041 (base 16) RACAL-MILGO INFORMATION SYS..
400 EMBASSY ROW
ATLANTA GA 30328
US

08-00-35 (hex) MICROFIVE CORPORATION
080035 (base 16) MICROFIVE CORPORATION
3560 HYLAND AVENUE
COSTA MESA CA 92626
US

08-00-32 (hex) TIGAN INCORPORATED
080032 (base 16) TIGAN INCORPORATED
4020 FABIAN WAY
PALO ALTO CA 94303
US

08-00-30
(hex) CERN
080030 (base 16) CERN
CH-1211
GENEVE SUISSE/SWITZ 023
CH

08-00-8D (hex) XYVISION INC.
08008D (base 16) XYVISION INC.
101 EDGEWATER DRIVE
WAKEFIELD MA 01880
US

08-00-4C (hex) HYDRA COMPUTER SYSTEMS INC.
08004C (base 16) HYDRA COMPUTER SYSTEMS INC.
12 MERCER ROAD
NATICK MA 01760
US

08-00-47 (hex) SEQUENT COMPUTER SYSTEMS INC.
080047 (base 16) SEQUENT COMPUTER SYSTEMS INC.
15450 S.W. KOLL PARKWAY .
BEAVERTON OR 97006
US

08-00-4A (hex) BANYAN SYSTEMS INC.
08004A (base 16) BANYAN SYSTEMS INC.
135 FLANDERS ROAD
WESTBORO MA 01581
US

08-00-0B (hex) UNISYS CORPORATION
08000B (base 16) UNISYS CORPORATION
TOWNSHIP LINE ROAD
BLUE BELL PA 19424
US

00-DD-01 (hex) UNGERMANN-BASS INC.
00DD01 (base 16) UNGERMANN-BASS INC.
3900 FREEDOM CIRCLE
SANTA CLARA CA 95054
US

08-00-8A (hex) PerfTech, Inc.
08008A (base 16) PerfTech,
Inc.
613 NW Loop 410

SAN ANTONIO TX 78216
US

00-DD-06 (hex) UNGERMANN-BASS INC.
00DD06 (base 16) UNGERMANN-BASS INC.
3900 FREEDOM CIRCLE
SANTA CLARA CA 95054
US

02-BB-01 (hex) OCTOTHORPE CORP.
02BB01 (base 16) OCTOTHORPE CORP.
285 WEST GREEN STREET
PASADENA CA 91105
US

08-00-66 (hex) AGFA CORPORATION
080066 (base 16) AGFA CORPORATION
200 BALLARDVALE STREET
WILMINGTON MA 01887
US

00-00-00 (hex) XEROX CORPORATION
000000 (base 16) XEROX CORPORATION
M/S 105-50C
WEBSTER NY 14580
US

08-00-21 (hex) 3M COMPANY
080021 (base 16) 3M COMPANY
Telecom Division
Austin TX 78726-9000
US

02-60-86 (hex) LOGIC REPLACEMENT TECH. LTD.
026086 (base 16) LOGIC REPLACEMENT TECH. LTD.
14 ARKWRIGHT ROAD
UNITED KINGDOM
GB

F8-21-11 (hex) HMD Global Oy
F82111 (base 16) HMD Global Oy
Bertel Jungin aukio 9
Espoo 02600
FI

EC-91-61 (hex) CLOUD
NETWORK TECHNOLOGY SINGAPORE PTE. LTD.
EC9161 (base 16) CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD.

B22 Building,NO.51 Tongle Road, Shajing Town, Jiangnan District, Nanning, Guangxi Province, China
Nanning Guangxi 530007
CN

08-00-15 (hex) STC BUSINESS SYSTEMS
080015 (base 16) STC BUSINESS SYSTEMS
HOLBROOK HOUSE
UNITED KINGDOM
GB

08-00-42 (hex) MACNICA, Inc.
080042 (base 16) MACNICA, Inc.
1-6-3 Shin-Yokohama
Kohoku-ku Yokohama 222-8561
JP

AA-00-03 (hex) DIGITAL EQUIPMENT CORPORATION
AA0003 (base 16) DIGITAL EQUIPMENT CORPORATION
LKG 1-2/A19
LITTLETON MA 01460-1289
US

00-DD-02 (hex) UNGERMANN-BASS INC.
00DD02 (base 16) UNGERMANN-BASS INC.
3900 FREEDOM CIRCLE
SANTA CLARA CA 95054
US

00-DD-04 (hex) UNGERMANN-BASS INC.
00DD04 (base 16) UNGERMANN-BASS INC.
3900 FREEDOM CIRCLE
SANTA CLARA CA 95054
US

00-01-C8 (hex) CONRAD CORP.
0001C8 (base 16) CONRAD
CORP.

08-00-3F (hex) FRED KOSCHARA ENTERPRISES
08003F (base 16) FRED KOSCHARA ENTERPRISES

C0-D6-0A (hex) Texas Instruments

C0D60A (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

28-83-C9 (hex) Apple, Inc.
2883C9 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

18-3F-70 (hex) Apple, Inc.
183F70 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

7C-49-CF (hex) eero inc.
7C49CF (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

00-00-3E (hex) SIMPACT
00003E (base 16) SIMPACT
9210 SKY PARK COURT
SAN DIEGO CA 92123
US

E8-51-9E (hex) Guangzhou Shiyuan Electronic Technology Company Limited
E8519E (base 16) Guangzhou Shiyuan Electronic Technology Company Limited
No.6, 4th Yunpu Road, Yunpu industry District
Guangzhou Guangdong 510530
CN

DC-A0-D0 (hex) Amazon
Technologies Inc.
DCA0D0 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

F0-2F-9E (hex) Amazon Technologies Inc.
F02F9E (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

40-36-68 (hex) E&B TELECOM
403668 (base 16) E&B TELECOM
55, Heungan-daero 439beon-gil, Dongan-gu, anyang-si
Gyeonggi-do 14059
KR

A4-F6-E8 (hex) Apple, Inc.
A4F6E8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

64-41-E6 (hex) Apple, Inc.
6441E6 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

70-BB-5B (hex) Apple, Inc.
70BB5B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

74-0E-A4 (hex) Apple, Inc.
740EA4 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

60-57-C8 (hex) Apple, Inc.
6057C8 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

D4-41-3F
(hex) Gen IV Technology LLC
D4413F (base 16) Gen IV Technology LLC
5239 Muhlhauser Road
West Chester OH 45011
US

D0-D7-BE (hex) HUAWEI TECHNOLOGIES CO.,LTD
D0D7BE (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

20-6B-F4 (hex) Huawei Device Co., Ltd.
206BF4 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

E8-2B-C5 (hex) Huawei Device Co., Ltd.
E82BC5 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

44-A0-38 (hex) Huawei Device Co., Ltd.
44A038 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

F8-6D-CC (hex) Wistron Neweb Corporation
F86DCC (base 16) Wistron Neweb Corporation
No.20,Park Avenue II,Hsinchu Science Park
Hsin-Chu R.O.C.
308
TW

58-D8-A7 (hex) Bird Home Automation GmbH
58D8A7 (base 16) Bird Home Automation GmbH
Uhlandstr. 165
Berlin Berlin 10719
DE

3C-CD-73 (hex) Nebula Electronic Technology Corporation
3CCD73 (base 16) Nebula Electronic Technology Corporation
Room 1002, No.570 ShengXia RD, Pudong district, Shanghai
Shanghai 201210
CN

08-27-6B (hex) Huawei Device Co., Ltd.
08276B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

3C-13-BB (hex) HUAWEI TECHNOLOGIES CO.,LTD
3C13BB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808

CN

34-5E-E7 (hex) Hangzhou ChengFengErLai Digial Technology Co.,Ltd.
345EE7 (base 16) Hangzhou ChengFengErLai Digial Technology Co.,Ltd.
9th Floor, Building 1, No. 48 Haoshantou South, Chonghua Village, Pingyao Town, Yuhang District, Hangzhou City, Zhejiang
Province
Hangzhou 311100
CN

CC-36-CF (hex) Cisco Systems, Inc
CC36CF (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

C8-9C-BB (hex) Taicang T&W Electronics
C89CBB (base 16) Taicang T&W Electronics
89# Jiang Nan RD
Suzhou Jiangsu 215412
CN

EC-B1-E0 (hex) Eltex Enterprise LTD
ECB1E0 (base 16) Eltex Enterprise LTD
Timiryazeva street, 17
Almaty 050040
KZ

B4-00-16 (hex) INGENICO TERMINALS SAS
B40016 (base 16) INGENICO TERMINALS SAS
13-17 Rue Pagès
Suresnes 92150
FR

10-1E-DA (hex) INGENICO TERMINALS SAS
101EDA (base 16) INGENICO TERMINALS SAS
13-17 Rue Pagès
Suresnes 92150
FR

44-D4-7F (hex) INGENICO TERMINALS SAS
44D47F (base 16) INGENICO TERMINALS SAS
13-17 Rue Pagès
Suresnes 92150
FR

54-B8-74 (hex) GD Midea Air-Conditioning Equipment Co.,Ltd.
54B874 (base 16) GD Midea Air-Conditioning Equipment

Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

48-63-45 (hex) Huawei Device Co., Ltd.
486345 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

64-51-F4 (hex) Huawei Device Co., Ltd.
6451F4 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

C4-57-81 (hex) Wingtech Group (HongKong) Limited
C45781 (base 16) Wingtech Group (HongKong) Limited
FLAT/RM 1903 19/F PODIUM PLAZA5HANOI ROAD TSIM SHA TSUIHong Kong
Hong Kong 999077
HK

F4-DD-06 (hex) Samsung Electronics Co.,Ltd
F4DD06 (base 16) Samsung Electronics Co.,Ltd
129, Samsung-ro, Youngtongl-Gu
Suwon Gyeonggi-Do 16677
KR

4C-60-BA (hex) AltoBeam Inc.
4C60BA (base 16) AltoBeam Inc.
B808, Tsinghua Tongfang Hi-Tech Plaza, Haidian
Beijing Beijing 100083
CN

18-5D-6F (hex) N3com
185D6F
(base 16) N3com
18/5 Prospekt Andropova, room 13/9
Moscow 115432
RU

30-C9-22 (hex) Espressif Inc.
30C922 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

70-90-41 (hex) Mist Systems, Inc.
709041 (base 16) Mist Systems, Inc.
1601 South De Anza Blvd, Suite 248
Cupertino CA 95014
US

94-A4-B5 (hex) Mitsubishi Electric Corporation
94A4B5 (base 16) Mitsubishi Electric Corporation
2-7-3 Marunouchi, Chiyoda-ku
Tokyo 100-8310
JP

24-2D-6C (hex) eero inc.
242D6C (base 16) eero inc.
660 3rd Street
San Francisco CA 94107
US

78-59-94 (hex) Alif Semiconductor, Inc.
785994 (base 16) Alif Semiconductor, Inc.
7901 Stoneridge Drive STE300
Pleasanton CA 94588
US

C4-95-5F (hex) Anhui Saida Technology Limited Liability Company
C4955F (base 16) Anhui Saida Technology Limited Liability Company
3rd
Floor, Building A4, Phase I, Zhongan Chuanggu Science and Technology Park, No. 900, Wangjiang West Road, High-tech Zone
Hefei Anhui 230000
CN

14-CB-49 (hex) Habolink Technology Co.,LTD
14CB49 (base 16) Habolink Technology Co.,LTD
Rm1304 , Block A7, Chuangzhiyuncheng Bldg, Xili Street,Nanshan District
Shenzhen Guangdong 518000
CN

CC-1B-5A (hex) Ruckus Wireless
CC1B5A (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

18-31-4F (hex) AIDIN ROBOTICS
18314F (base 16) AIDIN ROBOTICS
12-20, SIMIN-DAERO 327BEON-GIL,
ANYANG-SI GYEONGGI-DO 14055

KR

68-1D-4C (hex) eSystems MTG GmbH
681D4C (base 16) eSystems MTG GmbH
Bahnhofstraße 100
Wendlingen 73240
DE

38-90-AF (hex) zte corporation
3890AF (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

18-79-FD (hex) zte corporation
1879FD (base
16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

0C-67-43 (hex) HUAWEI TECHNOLOGIES CO.,LTD
0C6743 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

F4-79-46 (hex) HUAWEI TECHNOLOGIES CO.,LTD
F47946 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

64-A4-44 (hex) Loongson Technology Corporation Limited
64A444 (base 16) Loongson Technology Corporation Limited
Loongson Industrial Park, building 2 , Zhongguancun Environmental protection park, Haidian District
Beijing 100095
CN

70-48-B5 (hex) CTS System Co., LTD.
7048B5 (base 16) CTS System Co., LTD.
345, Bucheon-ro
Bucheon-si Kyeonggi-do 14521
KR

30-B8-51 (hex) Siemens AG
30B851 (base 16) Siemens AG
Werner-von-Siemens-Str. 50

Amberg
92224
DE

78-0B-8C (hex) Private
780B8C (base 16) Private

94-33-D8 (hex) Cisco Systems, Inc
9433D8 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

FC-D5-86 (hex) Shenzhen SuperElectron Technology Co.,Ltd.
FCD586 (base 16) Shenzhen SuperElectron Technology Co.,Ltd.
1213-1214, haosheng business center, dongbin road, nanshan street, nanshan district, shenzhen city
Shenzhen Guangdong 518000
CN

84-0A-9E (hex) Nexapp Technologies Pvt Ltd
840A9E (base 16) Nexapp Technologies Pvt Ltd
403, 4th floor, S.NO 577/A/1 Suyog Center, Gultekadi, Pune, Maharashtra 411037, India
Pune Maharashtra Pune 411037
IN

D0-6B-78 (hex) Apple, Inc.
D06B78 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

0C-53-B7 (hex) Apple, Inc.
0C53B7 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

7C-F3-4D (hex) Apple, Inc.
7CF34D (base 16) Apple,
Inc.
1 Infinite Loop
Cupertino CA 95014
US

00-0F-2C (hex) Lantronix
000F2C (base 16) Lantronix
Bldg 1, Suite 235
Austin TX 78730

US

E8-CB-F5 (hex) Laird Connectivity
E8CBF5 (base 16) Laird Connectivity
3F.-1, No.145, Xianzheng 9th Rd.,
Zhubei 30251
TW

D8-02-C0 (hex) Extreme Networks Headquarters
D802C0 (base 16) Extreme Networks Headquarters
2121 RDU Center Drive
Morrisville NC 27560
US

0C-DC-91 (hex) Amazon Technologies Inc.
0CDC91 (base 16) Amazon Technologies Inc.
P.O Box 8102
Reno NV 89507
US

54-F0-B1 (hex) Aruba, a Hewlett Packard Enterprise Company
54F0B1 (base 16) Aruba, a Hewlett Packard Enterprise Company
3333 Scott Blvd
Santa Clara CA 95054
US

98-1C-42 (hex) LAIIER
981C42 (base 16) LAIIER
98 Commercial Street
London E1 6LZ
GB

58-35-0F (hex) EM Microelectronic
58350F (base 16) EM Microelectronic
Rue des
Sors 3
Marin-Epagnier Neuchatel 2074
CH

70-BC-48 (hex) Cisco Systems, Inc
70BC48 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

A0-BC-6F (hex) Cisco Systems, Inc
A0BC6F (base 16) Cisco Systems, Inc
80 West Tasman Drive

San Jose CA 94568
US

B0-8D-57 (hex) Cisco Systems, Inc
B08D57 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

18-93-41 (hex) Intel Corporate
189341 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

DC-45-46 (hex) Intel Corporate
DC4546 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

30-67-A1 (hex) Sagemcom Broadband SAS
3067A1 (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

D0-1B-F4 (hex) Sagemcom Broadband SAS
D01BF4 (base 16) Sagemcom Broadband SAS
250, route de
l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

78-BB-C1 (hex) SERVERCOM (INDIA) PRIVATE LIMITED
78BBC1 (base 16) SERVERCOM (INDIA) PRIVATE LIMITED
E-43/1 OKHLA INDUSTRIAL AREA PHASE-II NEW DELHI SOUTH DELHI
NEW DELHI NA
IN

E4-BC-96 (hex) Versuni
E4BC96 (base 16) Versuni
Tussendiepen 4a
Drachten 9206 AD
NL

AC-A0-9D (hex) Juniper Networks
ACA09D (base 16) Juniper Networks

1133 Innovation Way
Sunnyvale CA 94089
US

E8-1C-BA (hex) Fortinet, Inc.
E81CBA (base 16) Fortinet, Inc.
899 Kifer Road
Sunnyvale 94086
US

E0-23-FF (hex) Fortinet, Inc.
E023FF (base 16) Fortinet, Inc.
899 Kifer Road
Sunnyvale 94086
US

E8-ED-D6 (hex) Fortinet, Inc.
E8EDD6 (base 16) Fortinet, Inc.
899 Kifer Road
Sunnyvale 94086
US

CC-BC-2B (hex) Huawei Device Co., Ltd.
CCBC2B (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan
Guangdong 523808
CN

94-CE-0F (hex) Huawei Device Co., Ltd.
94CE0F (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

88-3F-27 (hex) Huawei Device Co., Ltd.
883F27 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

24-E2-9D (hex) Huawei Device Co., Ltd.
24E29D (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

D0-C7-30 (hex) zte corporation

D0C730 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

C0-2B-56 (hex) CANDID OPTRONIX PRIVATE LIMITED
C02B56 (base 16) CANDID OPTRONIX PRIVATE LIMITED
C-1 to C-6, C-65 to C-71, SIGADDI GROWTH CENTRE, VILLAGE KISHAN DEVPUR, Kotdwara, Pauri Garhwal
Kotdwara Uttarakhand 246149
IN

24-59-E5 (hex) GD
Midea Air-Conditioning Equipment Co.,Ltd.
2459E5 (base 16) GD Midea Air-Conditioning Equipment Co.,Ltd.
Midea Global Innovation Center,Beijiao Town,Shunde
Foshan Guangdong 528311
CN

DC-97-BA (hex) Intel Corporate
DC97BA (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

A0-D3-65 (hex) Intel Corporate
A0D365 (base 16) Intel Corporate
Lot 8, Jalan Hi-Tech 2/3
Kulim Kedah 09000
MY

2C-20-80 (hex) Huawei Device Co., Ltd.
2C2080 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

B4-02-F2 (hex) Synaptics, Inc
B402F2 (base 16) Synaptics, Inc
1251 McKay Drive
San Jose CA 95131-1709
US

20-C7-92 (hex) Wuhan Maiwe communication Co.,Ltd
20C792 (base 16) Wuhan Maiwe communication Co.,Ltd
Building 2,Area E, Phase ii, Optical valley core center, No.52, Liufang road, East Lake Hi-tech Development Zone,Wuhan,China
Wuhan Hubei 430000

CN

A0-2D-DB (hex) Sagemcom Broadband SAS
A02DDB (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

74-4D-DC (hex) Sonim Technologies, Inc
744DDC (base 16) Sonim Technologies, Inc
4445 Eastgate Mall,Suite 200
San Diego CA 92121
US

B8-A1-4A (hex) Raisecom Technology CO., LTD
B8A14A (base 16) Raisecom Technology CO., LTD
No. 11, East Area, No. 10 Block, East Xibeiwang Road
Beijing 100094
CN

3C-6D-66 (hex) NVIDIA Corporation
3C6D66 (base 16) NVIDIA Corporation
2701 San Tomas Expressway
Santa Clara CA 95050
US

74-D5-C6 (hex) Microchip Technologies Inc
74D5C6 (base 16) Microchip Technologies Inc
2355 W Chandler Blvd
Chandler 85224-6199
US

BC-09-EB (hex) TECNO MOBILE LIMITED
BC09EB (base 16) TECNO MOBILE LIMITED
ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE,
HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Hong Kong Hong Kong 999077
HK

84-B4-D2 (hex) Shenzhen iComm Semiconductor CO.,LTD
84B4D2 (base 16) Shenzhen iComm Semiconductor CO.,LTD
Room 601,Block B ,Digital Building,Garden City
Shenzhen No.1079 Nanhai Road,Nanshan District 518067
CN

38-A7-46 (hex) COMPAL INFORMATION (KUNSHAN) CO., LTD.
38A746 (base 16) COMPAL INFORMATION (KUNSHAN) CO., LTD.
NO. 25, THE 3RD Street KUNSHAN EXPORT PROCESSING ZON

KUNSHAN SUZHOU 215300
CN

6C-E2-D3 (hex) New H3C Technologies Co., Ltd
6CE2D3 (base 16) New H3C Technologies Co., Ltd
466 Changhe Road, Binjiang District
Hangzhou Zhejiang 310052
CN

5C-64-0F (hex) Sage Technologies Inc.
5C640F (base 16) Sage Technologies Inc.
Room L308-02, #238, Donglan Road, Minhang Dist.
Shanghai Shanghai 201102
CN

5C-16-7D (hex) HUAWEI TECHNOLOGIES CO.,LTD
5C167D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2
Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

50-E4-52 (hex) Chipsea Technologies (Shenzhen) Corp.
50E452 (base 16) Chipsea Technologies (Shenzhen) Corp.
3 / F, Block A, Building 2, Shenzhen Bay Innovation Technology Center, No.3156 keyuan South Road, Yuehai Street, Nanshan District, Shenzhen
Shenzhen Guangdong 518000
CN

DC-C4-9C (hex) Samsung Electronics Co.,Ltd
DCC49C (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

A4-A4-90 (hex) Samsung Electronics Co.,Ltd
A4A490 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

B8-A8-25 (hex) Samsung Electronics Co.,Ltd
B8A825 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

F0-A8-82 (hex) shenzhen trolink Technology Co.,Ltd

F0A882 (base 16) shenzhen trolink Technology Co.,Ltd
F/5 Building -E ,Fenda
Hight Technology Park,Sanwei Hangcheng Street,Bao'an ,Shenzhen
shenzhen gangdong 518101
CN

10-32-2C (hex) Murata Manufacturing Co., Ltd.
10322C (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

CC-F9-F0 (hex) Samsung Electronics Co.,Ltd
CCF9F0 (base 16) Samsung Electronics Co.,Ltd
#94-1, Imsoo-Dong
Gumi Gyeongbuk 730-350
KR

E4-C7-70 (hex) Raisecom Technology CO., LTD
E4C770 (base 16) Raisecom Technology CO., LTD
No. 11, East Area, No. 10 Block, East Xibeiwang Road
Beijing 100094
CN

F4-42-50 (hex) Bouffalo Lab (Nanjing) Co., Ltd.
F44250 (base 16) Bouffalo Lab (Nanjing) Co., Ltd.
5F, Gongxiang Space, No.100 Tuanjie Road, Nanjing, China
Nanjing Jiangsu 211800
CN

BC-62-CE (hex) Netis Technology Co., Ltd.
BC62CE (base 16) Netis Technology Co., Ltd.
8 Floor, Bd B, information port, Langshan RD, Nanshan district,
Shenzhen
Guangdong 518057
CN

E4-BE-ED (hex) Netis Technology Co., Ltd.
E4BEED (base 16) Netis Technology Co., Ltd.
ORIENTAL CYBERPORT,HIGHTECH 6 ROAD
Shenzhen 518057
CN

00-72-63 (hex) Netis Technology Co., Ltd.
007263 (base 16) Netis Technology Co., Ltd.
ORIENTAL CYBERPORT,HIGHTECH 6 ROAD
Shenzhen 518057
CN

E0-67-B3 (hex) Shenzhen C-Data Technology Co., Ltd.
E067B3 (base 16) Shenzhen C-Data Technology Co., Ltd.
#201, Building A4, Nanshan Zhiyuan, No.1001, Xueyuan Avenue, Changyuan Community,Taoyuan,Nanshan
Shenzhen Guangdong 518055
CN

70-A5-6A (hex) Shenzhen C-Data Technology Co., Ltd.
70A56A (base 16) Shenzhen C-Data Technology Co., Ltd.
#201, Building A4, Nanshan Zhiyuan, No.1001, Xueyuan Avenue, Changyuan Community,Taoyuan,Nanshan
Shenzhen Guangdong 518055
CN

EC-64-C9 (hex) Espressif Inc.
EC64C9 (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai
Shanghai 201203
CN

F0-F5-BD (hex) Espressif Inc.
F0F5BD (base 16) Espressif Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

DC-8E-8D (hex) Netis Technology Co., Ltd.
DC8E8D (base 16) Netis Technology Co., Ltd.
No.6 tongjiu road,Pingxiang Economic and Technological Development District
Pingxiang Jiangxi 337099
CN

98-D7-E1 (hex) Cisco Systems, Inc
98D7E1 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F8-39-18 (hex) Cisco Systems, Inc
F83918 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

84-B1-E2 (hex) Microsoft Corporation
84B1E2 (base 16) Microsoft Corporation
One Microsoft Way
REDMOND WA 98052

US

F8-42-88 (hex) Apple, Inc.
F84288 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

FC-34-E2 (hex) Shenzhen YOUHUA Technology Co., Ltd
FC34E2 (base
16) Shenzhen YOUHUA Technology Co., Ltd
Room 407 Shenzhen University-town Business Park,Lishan Road,Taoyuan Street,Nanshan District
Shenzhen Guangdong 518055
CN

60-0F-6B (hex) Apple, Inc.
600F6B (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

4C-97-CC (hex) Apple, Inc.
4C97CC (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

88-B7-EB (hex) Apple, Inc.
88B7EB (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

10-A2-D3 (hex) Apple, Inc.
10A2D3 (base 16) Apple, Inc.
1 Infinite Loop
Cupertino CA 95014
US

48-84-9D (hex) Texas Instruments
48849D (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

34-EE-16 (hex) Apple, Inc.
34EE16 (base 16) Apple, Inc.
1 Infinite Loop

Cupertino CA 95014
US

C0-3F-BB (hex) Zhongshan Zhiniu Electronics Co.,Ltd.
C03FBB (base 16) Zhongshan Zhiniu Electronics Co.,Ltd.
2nd
Floor,Building B,No.15-1,Xinggang South Road,Gangkou Town,Zhongshan City,Guangdong Province
Zhongshan 528400
CN

44-F9-71 (hex) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
44F971 (base 16) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
6th Floor, South Section, Building 23, Keyuan West, NO.1 Kezhi West Road, Science and Technology Community, Yuehai Street, Nanshan District
Shenzhen Guangdong 518057
CN

38-6B-1C (hex) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
386B1C (base 16) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
6th Floor, South Section, Building 23, Keyuan West, NO.1 Kezhi West Road, Science and Technology Community, Yuehai Street, Nanshan District
Shenzhen Guangdong 518057
CN

50-89-65 (hex) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
508965 (base 16) SHENZHEN MERCURY COMMUNICATION TECHNOLOGIES CO.,LTD.
6th Floor, South Section, Building 23, Keyuan West, NO.1
Kezhi West Road, Science and Technology Community, Yuehai Street, Nanshan District
Shenzhen Guangdong 518057
CN

34-96-77 (hex) zte corporation
349677 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

24-75-FC (hex) zte corporation
2475FC (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

5C-57-9E (hex) Chiun Mai Communication System, Inc
5C579E (base 16) Chiun Mai Communication System, Inc
No.4, MingSheng St. TUCheng District New Taipei City, 23679 TW
New Taipei City 23679
TW

44-1A-84 (hex) Quectel Wireless Solutions Co.,Ltd.
441A84 (base 16) Quectel Wireless Solutions Co.,Ltd.
7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District
Shanghai 200233
CN

8C-6F-B9 (hex) Silicon Laboratories
8C6FB9 (base 16) Silicon Laboratories
400 West Cesar
Chavez
Austin TX 78701
US

14-2D-41 (hex) Silicon Laboratories
142D41 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

04-87-27 (hex) Silicon Laboratories
048727 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

28-76-81 (hex) Silicon Laboratories
287681 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

30-FB-10 (hex) Silicon Laboratories
30FB10 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

70-54-64 (hex) Silicon Laboratories
705464 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

B4-3A-31 (hex) Silicon Laboratories
B43A31 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701

US

4C-5B-B3 (hex) Silicon Laboratories
4C5BB3 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

94-B2-16
(hex) Silicon Laboratories
94B216 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

8C-65-A3 (hex) Silicon Laboratories
8C65A3 (base 16) Silicon Laboratories
400 West Cesar Chavez
Austin TX 78701
US

28-F8-C6 (hex) IEEE Registration Authority
28F8C6 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

C8-8A-D8 (hex) CHINA DRAGON TECHNOLOGY LIMITED
C88AD8 (base 16) CHINA DRAGON TECHNOLOGY LIMITED
B4 Building,No.3 First industrial Zone,Nanpu Road,Lao Community,Xinqian Street,Baoan District,Shenzhen,City
ShenZhen 518100
CN

18-CA-A7 (hex) zte corporation
18CAA7 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

94-40-F3 (hex) HUAWEI TECHNOLOGIES CO.,LTD
9440F3 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology
Park
Dongguan 523808
CN

D0-58-AB (hex) Mara Tech LLC
D058AB (base 16) Mara Tech LLC

Unit 1200101 NE 3rd Ave,
Fort Lauderdale FL 33301
US

40-6F-27 (hex) HUAWEI TECHNOLOGIES CO.,LTD
406F27 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

D4-87-CC (hex) Sivantos GmbH
D487CC (base 16) Sivantos GmbH
Henri-Dunant-Strasse 100
Erlangen Bavaria 91058
DE

00-33-58 (hex) Ruckus Wireless
003358 (base 16) Ruckus Wireless
350 West Java Drive
Sunnyvale CA 94089
US

B4-4C-90 (hex) Cisco Systems, Inc
B44C90 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

E0-4C-12 (hex) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
E04C12 (base 16) Realme Chongqing Mobile Telecommunications Corp.,Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing.
Chongqing China
401120
CN

64-4E-EB (hex) Daikin Holdings Singapore Pte Ltd
644EEB (base 16) Daikin Holdings Singapore Pte Ltd
10 ANG MO KIO INDUSTRIAL PARK 2SINGAPORE
Singapore Singapore 569501
SG

24-E8-CE (hex) Qingdao Haier Technology Co.,Ltd
24E8CE (base 16) Qingdao Haier Technology Co.,Ltd
Building C01,Haier Information Park,No.1 Haier Road,
Qingdao Shandong 266101
CN

9C-38-18 (hex) Cisco Systems, Inc

9C3818 (base 16) Cisco Systems, Inc
80 West Tasman Drive
San Jose CA 94568
US

F0-4B-8A (hex) ARRIS Group, Inc.
F04B8A (base 16) ARRIS Group, Inc.
6450 Sequence Drive
San Diego CA 92121
US

DC-EA-E7 (hex) D-Link Corporation
DCEAE7 (base 16) D-Link Corporation
No.289, Sinhu 3rd Rd., Neihu District,
Taipei City 114
TW

A8-EA-71 (hex) Fiberhome Telecommunication Technologies Co.,LTD
A8EA71 (base 16) Fiberhome Telecommunication Technologies Co.,LTD
No.5 DongXin Road
Wuhan
Hubei 430074
CN

4C-A9-19 (hex) Tuya Smart Inc.
4CA919 (base 16) Tuya Smart Inc.
160 Greentree Drive, Suite 101
Dover DE 19904
US

8C-A6-82 (hex) IEEE Registration Authority
8CA682 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

D8-25-DF (hex) CAME UK
D825DF (base 16) CAME UK
Willow Farm Business Park, 1B Sills Rd, Castle Donington, Derby DE74 2US
Castle Donington West Midlands DE74 2US
GB

D4-B5-CD (hex) Sagemcom Broadband SAS
D4B5CD (base 16) Sagemcom Broadband SAS
250, route de l'Empereur
Rueil Malmaison Cedex hauts de seine 92848
FR

D4-17-61 (hex) Xiaomi Communications Co Ltd
D41761 (base 16) Xiaomi Communications Co Ltd
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road
Beijing Haidian District 100085
CN

BC-62-9C (hex) zte corporation
BC629C (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen
guangdong 518057
CN

68-49-83 (hex) HUAWEI TECHNOLOGIES CO.,LTD
684983 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

2C-EC-F7 (hex) Shenzhen SDMC Technology CO.,Ltd.
2CECF7 (base 16) Shenzhen SDMC Technology CO.,Ltd.
Room 1022, Floor 10, Building A, Customs Building, No. 2, Xin'an 3rd Road, Dalang Community, Xin'an Street, Bao'an District
Shenzhen GUANGDONG 518101
CN

E8-DA-3E (hex) Huawei Device Co., Ltd.
E8DA3E (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

90-F7-21 (hex) IndiNatus (IndiNatus India Private Limited)
90F721 (base 16) IndiNatus (IndiNatus India Private Limited)
D-92/6, 2nd Floor, Okhla Industrial Area, Okhla Phase -I
New Delhi New Delhi 110020
IN

94-BB-43 (hex) AzureWave Technology Inc.
94BB43 (base 16) AzureWave Technology Inc.
8F., No. 94, Baozhong Rd.
New Taipei City Taiwan 231
TW

98-25-4A (hex) TP-LINK CORPORATION PTE. LTD.
98254A (base 16) TP-LINK CORPORATION PTE. LTD.
7 Temasek Boulevard #29-03 Suntec Tower One

Singapore 038987
SG

24-2F-D0 (hex) TP-LINK CORPORATION PTE. LTD.
242FD0 (base 16) TP-LINK CORPORATION PTE. LTD.
7 Temasek Boulevard #29-03 Suntec Tower One
Singapore 038987
SG

EC-B8-78 (hex) Huawei Device Co., Ltd.
ECB878 (base 16) Huawei Device Co., Ltd.
No.2 of Xincheng Road, Songshan Lake Zone
Dongguan Guangdong 523808
CN

38-F4-5E (hex) H1-Radio co.,ltd
38F45E (base 16) H1-Radio co.,ltd
#1510,Building A,123,Beolmal-ro,Dongan-gu
Anyang-Si Gyeonggi-Do 14056
KR

74-FE-CE (hex) TP-LINK CORPORATION PTE. LTD.
74FECE (base 16) TP-LINK CORPORATION PTE. LTD.
7 Temasek Boulevard #29-03 Suntec Tower One
Singapore 038987
SG

78-F5-05 (hex) Murata Manufacturing Co.,
Ltd.
78F505 (base 16) Murata Manufacturing Co., Ltd.
1-10-1, Higashikotari
Nagaokakyo-shi Kyoto 617-8555
JP

58-8D-39 (hex) MITSUBISHI ELECTRIC AUTOMATION (CHINA) LTD.
588D39 (base 16) MITSUBISHI ELECTRIC AUTOMATION (CHINA) LTD.
No.1386 Hongqiao Road,Mitsubishi Electric Automation Center
Shanghai 200336
CN

B8-E2-8C (hex) MOTOROLA SOLUTIONS MALAYSIA SDN. BHD.
B8E28C (base 16) MOTOROLA SOLUTIONS MALAYSIA SDN. BHD.
INNOPLEX, NO. 2A, MEDAN BAYAN LEPAS, BAYAN LEPAS TECHNOPLEX
BAYAN LEPAS PENANG 11900
MY

B8-F7-74 (hex) Fiberhome Telecommunication Technologies Co.,LTD
B8F774 (base 16) Fiberhome Telecommunication Technologies Co.,LTD

No.5 DongXin Road
Wuhan Hubei 430074
CN

E0-DA-D7 (hex) zte corporation
E0DAD7 (base 16) zte corporation
12/F.,zte R&D building ,kejinan Road,Shenzhen,P.R.China
shenzhen guangdong 518057
CN

18-8B-0E (hex) Espressif Inc.
188B0E (base 16) Espressif
Inc.
Room 204, Building 2, 690 Bibo Rd, Pudong New Area
Shanghai Shanghai 201203
CN

2C-CF-67 (hex) Raspberry Pi (Trading) Ltd
2CCF67 (base 16) Raspberry Pi (Trading) Ltd
Maurice Wilkes Building, St Johns Innovation Park
Cambridge Cambridgeshire CB4 0DS
GB

30-A3-B5 (hex) Jiangsu Best Tone Information Service Co., Ltd
30A3B5 (base 16) Jiangsu Best Tone Information Service Co., Ltd
No.501,Zhongshan South Road
Nanjing Jiangsu 210006
CN

A8-6F-36 (hex) vivo Mobile Communication Co., Ltd.
A86F36 (base 16) vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an
Dongguan Guangdong 523860
CN

48-A3-BD (hex) Texas Instruments
48A3BD (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

04-23-22 (hex) Texas Instruments
042322 (base 16) Texas Instruments
12500 TI Blvd
Dallas TX 75243
US

44-49-63 (hex) Woven By Toyota U.S., Inc.

444963 (base 16) Woven
By Toyota U.S., Inc.
900 Arastradero RdCreekside A
Palo Alto CA 94304
US

C0-A4-76 (hex) Ruijie Networks Co.,LTD
C0A476 (base 16) Ruijie Networks Co.,LTD
Building 19,Juyuanzhou Industrial Park, No.618 Jinshan Avenue, Cangshan District
Fuzhou 35000
CN

60-74-B1 (hex) Home Control Singapore Pte Ltd
6074B1 (base 16) Home Control Singapore Pte Ltd
151 Lorong Chuan
Singapore 556741
SG

34-C8-D6 (hex) IEEE Registration Authority
34C8D6 (base 16) IEEE Registration Authority
445 Hoes Lane
Piscataway NJ 08554
US

10-2F-6E (hex) Shenzhen Sundray Technologies Company Limited
102F6E (base 16) Shenzhen Sundray Technologies Company Limited
5th Floor, Block A4, Nanshan ipark,NO.1001 Xue Yuan Road, Nanshan District, Shenzhen 518055, P.R. China
Shenzhen Guangdong 518057
CN

70-2A-D7 (hex) New H3C Intelligence Terminal Co., Ltd.
702AD7 (base 16) New H3C Intelligence Terminal Co., Ltd.
Room
406-100, 1 Yichuang Street, China-Singapore Guangzhou Knowledge City, Huangpu District, Guangzhou.
Guangzhou Guangdong 510030
CN

28-1D-FB (hex) HUAWEI TECHNOLOGIES CO.,LTD
281DFB (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

0C-23-8D (hex) HUAWEI TECHNOLOGIES CO.,LTD
0C238D (base 16) HUAWEI TECHNOLOGIES CO.,LTD
No.2 Xin Cheng Road, Room R6,Songshan Lake Technology Park
Dongguan 523808
CN

20-01-9C (hex) Bigleaf Networks Inc.
20019C (base 16) Bigleaf Networks Inc.
2850 SW Cedar Hills BlvdSuite 130
Beaverton OR 97005
US

DC-61-80 (hex) HUAWEI TECHNOLOGIES CO.,LTD
DC6180 (base 16) HUAWEI TECHNOLOGIES CO.,LTD
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98-5F-41 (hex) Intel Corporate
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Found in path(s):
* /opt/cola/permits/2034537904_1717102564.4588194/0/netaddr-netaddr-1-3-0-0-g85a7b25-tar-gz/netaddr-netaddr-1e20a33/netaddr/eui/oui.txt
No license file was found, but licenses were detected in source scan.

Here are the copyright notices applicable to the netaddr library.

---
netaddr

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---

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parsed and made available to end users through an API. There is no
guarantee that referenced files are not out of date.

See README file and source code for URLs to latest copies of the relevant
files.

Found in path(s):
* /opt/cola/permits/2034537904_1717102564.4588194/0/netaddr-netaddr-1-3-0-0-g85a7b25-tar-gz/netaddr-netaddr-1e20a33/COPYRIGHT.rst
No license file was found, but licenses were detected in source scan.

netaddr is written by David P. D. Moss and currently maintained by Jakub Stasiak.

It is released under the BSD License.

Many people further contributed to netaddr by reporting problems, suggesting
various improvements or submitting actual code. Here is a list of these people
(in alphabetical order). Help me keep it complete and free of errors.

Vincent Bernat <bernat AT debian.org>

Sebastien Douche <sdouche AT gmail.com>

John Eckersberg <john DOT eckersberg AT gmail.com>

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Victor Stinner <victor DOT stinner AT haypocalc.com>

Andrew Stromnov <stromnov
AT gmail.com>

Thanks to everyone on the netaddr mailing list, those who raised bug reports
and to all those who have, directly and indirectly, guided and influenced the
development and distribution of this library.

Thanks also for the use of the following code contributions :-

a) Python Cookbook recipe 18.11: "Formatting Integers as Binary Strings"

Python Cookbook 2d ed. (O'Reilly Media 2005) ISBN 0596-00797-3
Alex Martelli, Anna Martelli Ravenscroft and David Ascher

b) ASPN Cookbook Recipe 466286: "Integer set type" by Heiko Wundram

http://code.activestate.com/recipes/466286/

And last but not least, thanks to Guido van Rossum for his encouraging words
and for giving us all Python.

Found in path(s):
* /opt/cola/permits/2034537904_1717102564.4588194/0/netaddr-netaddr-1-3-0-0-g85a7b25-tar-gz/netaddr-netaddr-1e20a33/THANKS.rst
No license file was found, but licenses were detected in source scan.

.. currentmodule:: netaddr

NEXT_NETADDR_VERSION

Date: not released yet

Release: 1.3.0

Date: 2024-05-28

Added:

* Add partial address expansion in :class:`IPNetwork` via the ``expand_partial`` switch,
 this enables opting into pre-1.1.0 behavior

Fixed:

* Fix running the test suite on musl systems
* Fix :class:`IPAddress` IPv6 parsing with :data:`ZEROFILL` enabled
* Fix handling of the :data:`NOHOST` flag in the :class:`IPNetwork` copy constructor

---
Release: 1.2.1

Date: 2024-02-17

Fixed:

* Fix bad version 1.2.0 upload to PyPI – now yanked. No changes to the package.

Release: 1.2.0

Date: 2024-02-17

Added:

* Add CLI tool subcommand to display :ref:`cli-network-info`.

Changed:

* Support running :ref:`interactive-shell` without IPython installed.

Fixed:

* Explicitly raise ``TypeError``
 is a non-string value is passed to :func:`valid_ipv4`
 or :func:`valid_ipv6`.

Release: 1.1.0

Date: 2024-02-15

Added:

* Add the required Python version to the package metadata (GH :issue:`365`).
* Add :func:`expand_partial_ipv4_address` to the public API.

Fixed:

* Fix ``IPNetwork(...) in IPRange(...)`` false negatives (GH :issue:`157`).
* Fix a few :class:`IPNetwork` slicing edge cases (GH :issue:`214`).
* Fix support for partial IP addresses accidentally left in :class:`IPNetwork` in 1.0.0.

When I removed the ``implicit_prefix`` switch I missed the fact that there was some
partial IPv4 address expansion triggered unconditionally.

If you need the old behavior use :func:`expand_partial_ipv4_address`.

Related GH issue: :issue:`110`.
* Fixed an incorrect license classifier in the package metadata.

Release: 1.0.0

Date: 2024-02-10

Removed:

* Drop support for Python versions lower than 3.7.
* Remove the
flag shorthands: ``N``, ``P`` and ``Z``. Use :data:`NOHOST`, :data:`INET_PTON`
and :data:`ZEROFILL` instead.
* Remove abbreviated CIDR format support in :class:`IPNetwork` (``implicit_prefix=True``),
use :func:`cidr_abbrev_to_verbose` if you need this behavior.
* Remove the ``IPAddress.is_private`` method.

There are more precise replacements for subset of the addresses that used to handled by ``is_private``:

* :meth:`IPAddress.is_link_local`
* :meth:`IPAddress.is_ipv4_private_use`
* :meth:`IPAddress.is_ipv6_unique_local`
* :meth:`IPAddress.is_global`

The following address blocks used to be handled by ``is_private`` have no dedicated
convenience methods and you'll have to handle them manually or request a method
addition:

* ``100.64.0.0/10`` – Shared Address Space
* ``192.0.0.0/24`` – IETF Protocol Assignments (watch out – there are exceptions in there)

* ``198.18.0.0/15`` – Benchmarking
* ``239.0.0.0``-``239.255.255.255`` – ``240.0.0.0/4`` is Reserved,
``239.0.0.0/8`` – unclear

Changed:

* Stop accepting leading zeros when parsing IPv4 addresses in :data:`INET_PTON` mode
(it's been allowed on some platforms).

If you need to allow and discard leading zeros use the :data:`ZEROFILL` flag.

This change will affect implicit conversions from ``str`` in all relevant contexts. If you need
to control the IPv4 parsing mode construct :class:`IPAddress` objects explicitly.
* Stop parsing IPv4 addresses permissively (``inet_aton()``-like) by default.

:data:`INET_PTON` is the default mode.

If you need to be permissive and parse using ``inet_aton()`` semantics use the
:data:`INET_ATON` flag.

This change will affect implicit conversions from ``str`` in all relevant contexts. If you
need to control the IPv4 parsing mode construct :class:`IPAddress` objects explicitly.
* Apply the two changes above to :func:`valid_ipv4` as well.
* Update the address databases to the 2024-02-10 versions.

Fixed:

* Return ``False`` instead of raising
:exc:`AddrFormatError` when an empty string is passed
to :func:`valid_ipv4` or :func:`valid_ipv6`.
* Fix handling of ``dialect`` provided to :class:`EUI` during copy-construction.

Release: 0.10.1

Date: 2024-01-02

Fixed:

* Get rid of some warnings

Deprecated:

* Deprecate the flag shorthands: ``N``, ``P`` and ``Z``. Use :data:`NOHOST`, :data:`INET_PTON`
and :data:`ZEROFILL` instead.
* Deprecate importing objects from ``netaddr`` subpackages. Only importing things from the
top-level ``netaddr`` namespace is supported, everything else is considered private.

This has already been the case but we can use a reminder.
* Deprecate permissive-by-default IPv4 parsing in :func:`valid_ipv4`. The ``inet_pton()``
semantics (with leading zeros always disallowed) will become the default. Use :data:`INET_ATON`
and/or :data:`ZEROFILL` flags if you need the legacy behavior.

Release: 0.10.0

Date: 2023-12-31

Added:

*
Add an :data:`INET_ATON` flag to explicitly request ``inet_aton()`` IPv4 parsing semantics
from :class:`IPAddress`.
* Add an :meth:`IPAddress.is_ipv4_private_use` convenience method.
* Add an :meth:`IPAddress.is_global` convenience method to allow determining if an address is
considered globally reachable.
* Add an :meth:`IPAddress.is_ipv6_unique_local` convenience method.

Fixed:

* Improve Python 3.13 compatibility, thank you John Eckersberg.

Deprecated:

* Deprecate Python 3.7 support.
* Deprecate abbreviated CIDR format support in :class:`IPNetwork`
(``implicit_prefix=True``).
* Deprecate accepting leading zeros when parsing IPv4 addresses in :data:`INET_PTON` mode
(it's been allowed on some platforms).

If you need to allow and discard leading zeros use the :data:`ZEROFILL` flag.

This change will affect implicit conversions from ``str`` in all relevant contexts. If you need
to control the IPv4 parsing mode construct :class:`IPAddress` objects explicitly.
* Deprecate
parsing IPv4 addresses permissively (``inet_aton()``-like) by default.

:data:`INET_PTON` will become the default mode.

If you need to be permissive and parse using ``inet_aton()`` semantics use the
:data:`INET_ATON` flag.

This change will affect implicit conversions from ``str`` in all relevant contexts. If you need
to control the IPv4 parsing mode construct :class:`IPAddress` objects explicitly.

* Deprecate the ``IPAddress.is_private`` method. Migration instructions in the documentation.

Other:

* Raise an exception if invalid flags are passed to ``IPAddress``, ``IPNetwork`` or ``IPRange``.
* Improve the documentation substantially.
* Update the DB files to the latest versions (2023-12-23).

Release: 0.9.0

Date: 2023-09-18

Added:

* Add hash capabilities to OUI (#225, amitmi704)

Fixed:

* **Backwards incompatible:** Handle RFC 6164 IPv6 addresses (don't reserve first IP address in point-to-point subnets) ($267, Damien Claisse)
* **Technically backwards incompatible:** Fix for is_loopback behaviour – consider ``IPNetwork('::1/128')`` to be loopback (#222, #223, niels)
* Include tutorials in source distributions (#215, Louis Sautier)
* Fix a documentation typo (#242, Wouter)
* Fix print syntax in the documentation to be Python 3 compatible (#221, François Magimel)
* Fix the Sphinx syntax in the documentation (#220, François Magimel)

Other:

* Update the databases (#266, Jakub Stasiak)
* Deprecate Python 3.6 (#263, Jakub Stasiak)
* Eliminate unnecessary evals (#228, KOLANICH)

Release: 0.8.0

Date: 3 Jul 2020

^^^^^^^^^^^^^^^^^^^^
Changes since 0.7.20
^^^^^^^^^^^^^^^^^^^^

* Fixed weak reference support in classes with ``__slots__``
* Added ``__bytes__`` to ``IPAddress`` for intuitive usage, thanks to Michael Belousov.

* Added ``format()`` function to EUI, thanks to Omer Anson.
* Added ``IPNetwork.netmask`` property setter, thanks to Naveen Nathan.
* Added support for IABs in the ``40:D8:55``
 OUI, thanks to Brian Maissy.
* Drastically optimized ``spanning_cidr()``, thanks to Brian Maissy.
* Fixed ``"x.x.x.x/x" in IPNetwork`` tests, thanks to xpac1985.
* Added support for passing iterables of ``IPRange`` to ``IPSet`` and ``cidr_merge()``, based
 on a patch by Henry Stern.

^^
Specific bug fixes addressed in this release
^^

FIXED Issue 205: https://github.com/netaddr/netaddr/issues/205
  - N log N complexity instead of linear

FIXED Issue 171: https://github.com/netaddr/netaddr/issues/171
  - Efficiently creating a large IPSet from a list of IPRanges?

FIXED Issue 161: https://github.com/netaddr/netaddr/issues/161
  - Weak reference support

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- The next release (0.9.0) will contain a backwards incompatible change in IPNetwork's behaviour.
 It's connected to handling of RFC 6164 IPv6 addresses (/127 and /128): IPNetwork.broadcast will
 return
 None for those and first addresses in the networks will no longer be excluded when
 iterating IPNetwork and IPNetwork.iter_hosts(). See https://github.com/netaddr/netaddr/pull/168
 (or temporarily reverted commit 2984c0a40a70 in this repository) to see the actual patch.

Release: 0.7.20

Date: 19 Jun 2020

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Changes since 0.7.19
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* Fixed returning from an iterator on Python 3.7+, by Sergey Kozlov.
* Fixed Python 3.8 SyntaxWarning on using `is not` with a string literal, by Stefan Nordhausen.
* Fixed DeprecationWarnings by using raw strings for escape characters used in regexes, by Sean McGinnis.
* Improved IPGlob documentation, by obkmeta.
* Fixed exception creation in corner cases by explicitly passing error message params as tuples, by
 Matthias Urlichs.

* Stopped manually replacing shebang of an included script.
* Stopped using __file__ in all code that's expected to run in environments that don't support it
(like PyOxidizer-produced binaries).
* Updated all databases included in the package.

^^^

* removed bundled pytest dependency code for "python setup.py test".

* setup.py now uses setuptools only (no more distutils) and setup_egg.py removed.

* cleaned up INSTALL docs so they accurately reflect current Python packaging.

* fixed broken parsing, generating and reading of IEEE index files when switching
 between Python 2.x and 3.x.

^^
Specific bug fixes addressed in this release
^^

FIXED
 Issue 133: https://github.com/drkjam/netaddr/issues/133
   - Splitting a single network into multiple prefixed networks

FIXED Issue 129: https://github.com/drkjam/netaddr/issues/129
   - fix IPAddress().netmask_bits to return 0 for 0.0.0.0 and [::] addresses

FIXED Issue 117: https://github.com/drkjam/netaddr/issues/117
   - (python setup.py test) failing with python3 >= 3.5

FIXED Issue 137: https://github.com/drkjam/netaddr/issues/137
   - API reference is broken on ReadTheDocs

FIXED Issue 143: https://github.com/drkjam/netaddr/issues/143
   - Please refresh the bundled IANA and IEEE databases

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- Goodbye to NYSE Euronext (good times), hello Intercontinental Exchange ...

Release: 0.7.18

Date: 4 Sep 2015

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Changes since 0.7.17
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* cidr_merge() algorithm is now O(n) and much faster.
 Thanks to Anand Buddhdev (aabdnn)
 and Stefan Nordhausen (snordhausen).

* nmap target specification now fully supported including IPv4 CIDR
 prefixes and IPv6 addresses.

^^^

FIXED Issue 109: https://github.com/drkjam/netaddr/issues/109
  - Identify registry of global IPv6 unicast allocations

FIXED Issue 108: https://github.com/drkjam/netaddr/issues/108
  - One part of docs unclear?

FIXED Issue 106: https://github.com/drkjam/netaddr/issues/106
  - Eui64 Updated (pull request for Issue 105)

FIXED Issue 105: https://github.com/drkjam/netaddr/issues/105
  - Support dialects for EUI-64 addresses

FIXED Issue 102: https://github.com/drkjam/netaddr/issues/102
  - 0.7.15 tarball is missing tests.

FIXED Issue 96: https://github.com/drkjam/netaddr/issues/96
  - Wrong hosts and broadcasts for /31 and
 /32 networks.

Release: 0.7.15

Date: 29 Jun 2015

^^^^^^^^^^^^^^^^^^^^
Changes since 0.7.14
^^^^^^^^^^^^^^^^^^^^

* Fix slowness in IPSet.__contains__. Thanks to novas0x2a for noticing.

* Normalize IPNetworks when they are added to an IPSet

* Converted test suite to py.test

^^
Specific bug fixes addressed in this release
^^

FIXED Issue 98: https://github.com/drkjam/netaddr/issues/98
  - Convert test suite to py.test

FIXED Issue 94: https://github.com/drkjam/netaddr/issues/94
  - IPSet.__contains__ is about 40 times slower than the equivalent IPRange

FIXED Issue 95: https://github.com/drkjam/netaddr/issues/95
  - Inconsistent Address Handling in IPSet

Release: 0.7.14

Date: 31st Mar 2015

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Changes since 0.7.13
^^^^^^^^^^^^^^^^^^^^

* Fix weird build breakage in 0.7.13 (wrong Python path, incorrect OUI DB).

*
 EUI, OUI, and IAB objects can now be compared with strings. You can do
   my_mac = EUI("11:22:33:44:55:66")
   my_mac == "11:22:33:44:55:66"
   and Python will return True on the "==" operator.

* Implement the "!=" operator for OUI and IAB under Python2. It was already
   working under Python3.

* 64 bit EUIs could only be created from strings with "-" as a separator.
   Now, ":" and no separator are supported, which already worked for 48 bit EUIs.

^^
Specific bug fixes addressed in this release
^^

FIXED Issue 80: https://github.com/drkjam/netaddr/pull/80
   - Compare L2 addresses with their representations

FIXED Issue 81: https://github.com/drkjam/netaddr/issues/81
   - OUI database tests fail in 0.7.13

FIXED Issue 84: https://github.com/drkjam/netaddr/issues/84
   - Incorrect python executable path in netaddr-0.7.13-py2.py3-none-any.whl

FIXED Issue 87: https://github.com/drkjam/netaddr/pull/87
    - Handle eui64 addresses with colon as a delimiter and without delimiter.

Release: 0.7.13

Date: 31st Dec 2014

^^^^^^^^^^^^^^^^^^^^
Changes since 0.7.12
^^^^^^^^^^^^^^^^^^^^

* IPAddress objects can now be added to/subtracted from each other

^^
Specific bug fixes addressed in this release
^^

FIXED Issue 73: https://github.com/drkjam/netaddr/issues/73
  - Adding IP Addresses

FIXED Issue 74: https://github.com/drkjam/netaddr/issues/74
  - compute static global ipv6 addr from the net prefix and mac address

FIXED Issue 75: https://github.com/drkjam/netaddr/issues/75
  - add classifiers for python 3.3 and 3.4 support

Release: 0.7.12

Date: 6th Jul 2014

^^^^^^^^^^^^^^^^^^^^^
Changes since 0.7.11
^^^^^^^^^^^^^^^^^^^^^

* Added method IPSet.iter_ipranges().

* bool(IPSet()) works now for large IPSets, e.g. IPSet(['2405:8100::/32']).

*
 IPNetwork.iter_hosts now skips the subnet-router anycast address for IPv6.

* Removed function fbsocket.inet_aton because it is unused and unnecessary

^^
Specific bug fixes addressed in this release
^^

FIXED Issue 69: https://github.com/drkjam/netaddr/issues/69
  - Add __nonzero__ method to IPSet

FIXED Pull Request 68: https://github.com/drkjam/netaddr/pull/68
  - Fixed a bug related to allowing ::0 during iter_hosts for v6

FIXED Issue 67: https://github.com/drkjam/netaddr/issues/67
  - Remove function fbsocket.inet_aton

FIXED Pull Request 66: https://github.com/drkjam/netaddr/pull/66
  - Added Function to create list of IPRange for non-contiguous IPSet

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Release: 0.7.11

Date: 19th Mar 2014

^^^^^^^^^^^^^^^^^^^^
Changes since 0.7.10
^^^^^^^^^^^^^^^^^^^^

* Performance of IPSet increased dramatically, implemented by
  Stefan Nordhausen and Martijn van
 Oosterhout. As a side effect,
  IPSet(IPNetwork("10.0.0.0/8")) is now as fast as you'd expect.

* Various performance improvements all over the place.

* netaddr is now hosted on PyPI and can be installed via pip.

* Doing "10.0.0.42" in IPNetwork("10.0.0.0/24") works now.

* IPSet has two new methods: iscontiguous() and iprange(), thanks to Louis des Landes.

* Re-added the IPAddress.netmask_bits() method that was accidentally removed.

* Networks 128.0.0.0/16, 191.255.0.0/16, and 223.255.255.0/24 are not marked as
  reserved IPv4 addresses any more. Thanks to marnickv for pointing that out.

* Various bug fixes contributed by Wilfred Hughes, 2*yo and Adam Goodman.

^^
Specific bug fixes addressed in this release
^^

FIXED Issue 58: https://github.com/drkjam/netaddr/issues/58

  - foo.bar doesn't throw AddrFormatError

FIXED Issue 57: https://github.com/drkjam/netaddr/issues/57

  - netaddr
 packages not hosted on PyPI

FIXED Issue 56: https://github.com/drkjam/netaddr/issues/56

  - Fix comparison with large IPSet()

FIXED Issue 55: https://github.com/drkjam/netaddr/pull/55

- Fix smallest_matching_cidr and all_matching_cidrs

FIXED Issue 53: https://github.com/drkjam/netaddr/issues/53

- Exclude 128.0.0.0/16 and possibly others from reserved range set?

FIXED Issue 51: https://github.com/drkjam/netaddr/issues/51

- Encoding errors in netaddr/eui/oui.txt

FIXED Issue 46: https://github.com/drkjam/netaddr/issues/46

- len(IPSet()) fails on python3

FIXED Issue 43: https://github.com/drkjam/netaddr/issues/43

- Method to check if IPSet is contiguous

FIXED Issue 38: https://github.com/drkjam/netaddr/issues/38

- netmask_bits is missing from the IPAddress

FIXED Issue 37: https://github.com/drkjam/netaddr/issues/37

- Test failures with Python 3.3

Release: 0.7.10

Date: 6th Sep 2012

^^^^^^^^^^^^^^^^^^^
Changes
 since 0.7.9
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* A bunch of Python 3.x bug fixes. Thanks Arfrever.

* Extended nmap support to cover full target specification.

^^
Specific bug fixes addressed in this release
^^

FIXED Issue 36 - https://github.com/drkjam/netaddr/issues/36

- ResourceWarnings with Python >=3.2

FIXED Issue 35 - https://github.com/drkjam/netaddr/issues/35

- netaddr-0.7.9: Test failure with Python 3

FIXED Issue 34 - https://github.com/drkjam/netaddr/issues/34

- netaddr.ip.iana.SaxRecordParser.endElement() incompatible with Python 3.1

FIXED Issue 33 - https://github.com/drkjam/netaddr/issues/33

- netaddr script not installed with Python 3

FIXED Issue 23 - https://github.com/drkjam/netaddr/issues/23

- valid_nmap_range() does not validate nmap format case.

FIXED Issue 22 - https://github.com/drkjam/netaddr/issues/22

- all_matching_cidrs: documentation incorrect

Release: 0.7.9

Date:
 28th Aug 2012

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Changes since 0.7.8
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* Re-release to fix build removing Sphinx dependency.

Release: 0.7.8

Date: 28th Aug 2012

^^^^^^^^^^^^^^^^^^^
Changes since 0.7.7
^^^^^^^^^^^^^^^^^^^

* New SAX parser for IANA data source files (contributed by Andrew Stromnov)

* Fixed pickling failures with EUI, OUI and IAB classes.

^^^

Specific bug fixes addressed in this release
^^^

FIXED Issue 20 - https://github.com/drkjam/netaddr/issues/20

- Test failure with Python 3. Thanks Arfrever

Release: 0.7.6

Date:
13th Sep 2011

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Changes since 0.7.5
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* A bug fix point release

* Refreshed 3rd party data caches

* Tested against Python 3.2.x and PyPy 1.6.x

* Fixed unit tests under for Mac OSX

^^
Specific bug fixes addressed in this release
^^

FIXED Issue 15 - https://github.com/drkjam/netaddr/issues/15

- Incorrect and invalid glob produced when last octet is not *

FIXED Issue 13 - https://github.com/drkjam/netaddr/issues/13

- Added support for IPython 0.11 API changes. Thanks juliantaylor

FIXED Issue 11 - https://github.com/drkjam/netaddr/issues/11

- Calling valid_glob on cidr raises ValueError. Thanks radicand

FIXED Issue 7 - https://github.com/drkjam/netaddr/issues/7

- Unpickling Bug in IPSet. Thanks LuizOz and labeneator

FIXED Issue 2 - https://github.com/drkjam/netaddr/issues/2

- UnboundLocalError raised in IPNetwork constructor.
Thanks keesbos

^^^^^^^^^^^^
Miscellanea
^^^^^^^^^^^^

- Has a famous soft drink company started making it own NICs?

Release: 0.7.5

Date: 5th Oct 2010

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Changes since 0.7.4
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* Python 3.x is now fully supported. The paint is still drying on this so
 please help with testing and raise bug tickets when you find any issues!
 New Issue Tracker - https://github.com/drkjam/netaddr/issues

* Moved code hosting to github. History ported thanks to svn2git.
 - (https://github.com/nirvdrum/svn2git)

* All netaddr objects now use approx. 65% less memory due to the use of
 __slots__ in classes throughout the codebase. Thanks to Stefan Nordhausen
 and his Python guru for this suggestion!

* Applied many optimisations and speedups throughout the codebase.

* Fixed the behaviour of the IPNetwork constructor so it now behaves in
 a much more sensible and expected way (i.e. no longer uses inet_aton
 semantics which is just
 plain odd for network addresses).

* One minor change to behaviour in this version is that the .value property
 on IPAddress and IPNetwork objects no longer support assignment using a
 string IP address. Only integer value assignments are now valid. The impact
 of this change should be minimal for the majority of users.

^^
Specific bug fixes addressed in this release
^^

FIXED Issue 49 - http://code.google.com/p/netaddr/issues/detail?id=49

 - Incorrect IP range recognition on IPs with leading zeros

FIXED Issue 50 - http://code.google.com/p/netaddr/issues/detail?id=50

- CIDR block parsing

FIXED Issue 52 - http://code.google.com/p/netaddr/issues/detail?id=52

- ipv6 cidr matches incorrectly match ipv4 [sic]

FIXED Issue 53 - http://code.google.com/p/netaddr/issues/detail?id=53

- Error in online documentation

FIXED Issue 54 - http://code.google.com/p/netaddr/issues/detail?id=54

- IP recognition failure

FIXED Issue 55 - http://code.google.com/p/netaddr/issues/detail?id=55

- Support for Python 3.x

FIXED Issue 56 - http://code.google.com/p/netaddr/issues/detail?id=56

- checking IPAddress in IPNetwork

FIXED Issue 57 - http://code.google.com/p/netaddr/issues/detail?id=57

- netaddr objects can't pickle

FIXED Issue 58 - http://code.google.com/p/netaddr/issues/detail?id=58

- IPSet operations should accept the same arguments as IPAddress

FIXED Issue 59 - http://code.google.com/p/netaddr/issues/detail?id=59

- netaddr fails to load when imported by a PowerDNS coprocess

^^^^^^^^^^^
Miscellanea
^^^^^^^^^^^

- Welcome back to standards.ieee.org which seems to have been down for weeks!

- Goodbye Sun Microsystems + Merrill Lynch, hello Oracle + Bank of America ...

Release: 0.7.4

Date: 2nd Dec 2009

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Changes since 0.7.3
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* Applied speed patches by S. Nordhausen

* Fixed
 an inconsistency between EUI and IPAddress interfaces. Made
 EUI.packed and EUI.bin properties (previously methods) and added a
 words() property.

Release: 0.7.3

Date: 14th Sep 2009

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Changes since 0.7.2
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* Added __add__, __radd__, __sub__, __rsub__ operators to the IPAddress class.

* Added support for validation and iteration of simple nmap style IPv4 ranges
 (raised in Issue 46).

* Removed some unused constants from fallback socket module.

^^
Specific bug fixes addressed in this release
^^

FIXED Issue 44 - http://code.google.com/p/netaddr/issues/detail?id=44

 - int/long type error

FIXED Issue 46 - http://code.google.com/p/netaddr/issues/detail?id=46

 - Question about IPv4 ranges

FIXED Issue 47 - http://code.google.com/p/netaddr/issues/detail?id=47

 - IPNetwork cannot be evaluated as a boolean when it has a large
 size

Release: 0.7.2

Date: 20th Aug 2009

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Changes since 0.7.1
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FIXED a boundary problem with the iter_iprange() generator function
 and all associated calls to it throughout the codebase, including
 unit test coverage and adjustments.

* Replaced regular expressions in cidr_merge() with pre-compiled equivalents
 for a small speed boost.

* Adjustments to README raised by John Eckersberg.

^^
Specific bug fixes addressed in this release
^^

FIXED Issue 43 - http://code.google.com/p/netaddr/issues/detail?id=43

  - IPNetwork('0.0.0.0/0') not usable in for loop

Release: 0.7.1

Date: 14th Aug 2009

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Changes since 0.7
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* Renamed the netaddr shell script from 'nash' to plain 'netaddr'. This
 is to avoid a potentially nasty clash with an important Linux tool
 with the same
 name.

 Thanks to John Eckersberg for spotting this one early!

* Updated IANA and IEEE data files with latest versions.

^^
Specific bug fixes addressed in this release
^^

FIXED Issue 42 - http://code.google.com/p/netaddr/issues/detail?id=42

  - Bug in cidr_merge() function when passed the CIDRs 0.0.0.0/0 and/or ::/0

Release: 0.7

Date: 11th Aug 2009

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Changes since 0.6.x
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Please Note - This release represents a major overhaul of netaddr. It breaks backward compatibility with previous releases. See the API documentation for full details of what is available.

Some highlights of what has changed :-

* Internal module hierarchy has been completely overhauled and redesigned. This fixes up a lot of inconsistencies and problems with interdependent imports. All public classes, objects, functions and constants are still published via the main netaddr module namespace as in previous releases.

* No more AT_* and ST_* 'constants'.

* The Addr base class is gone. This removes the link between EUI and IP functionality so the library is can now easily be split into distinct units without many interdependencies between layer 2 and layer 3 functionality.

* The use of custom descriptor classes has been completely discontinued.

* Strategy classes and singleton objects have been replaced with a group of strategy modules in their own netaddr.strategy namespace. Each IP or EUI address object now holds a reference to a module rather than a singleton object.

* Many operations that were previously static class methods are now presented as functions in the relevant modules. See the API documentation for details.

* The IP and CIDR classes have been replaced with two new classes called IPAddress and IPNetwork respectively. This name change is important as the IP part of netaddr has been completed redesigned. The notion of an individual IP address and an IP network or subnet has been made more obvious. IPAddress objects are now true scalars and do not evaluate in a list or tuple context. They also do not support any notion of a netmask or CIDR prefix; this is the primary function of an IPNetwork object.

* Arbitrary IP ranges and are still supported but a lot of their functionality has also been exposed via handy functions.

* IP globbing routines (previous known as Wildcards) have been moved into their own submodule.

* Added a new IPSet class which fully emulates mutable Python sets. This replaces a lot of half-baked experimental classes found in 0.5.x and 0.6.x such as IPRangeSet and CIDRGroup. See documentation for details.

* All methods and properties that previously used or supported the 'fmt' formatting property no longer do so. In all cases, objects are now returned to correctly support pass through calls without side effects. It is up to the user to extract
data in the right format from the objects IPAddress objects
returned as required.

* Unit tests have been completed re-written to support docstring style tests bundled into test suites. These are handy as they double up as documentation being combined with wiki syntax. Implemented code coverage checking using coverage 3.x.

* nash - a nascent shell like tool for the netaddr library (requires IPython).

* Support for RFC 1924 added ;-)

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FIXED Issue 38 - http://code.google.com/p/netaddr/issues/detail?id=38

- Feature request: Addr.__nonzero__

FIXED Issue 39 - http://code.google.com/p/netaddr/issues/detail?id=39

- CIDR.abbrev_to_verbose() not applying implicit classful netmask rules consistently

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Release: 0.6.2

Date: 13th Apr 2009

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Changes since 0.6.1
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* Refreshed IEEE and IANA data files with latest revisions from their respective URLs.

- IANA IPv4 Address Space Registry (last updated 2009-03-11)

- Internet Multicast Addresses (last updated 2009-03-17)

- IEEE OUI and IAB files (last updated 2009-04-13)

* Added get_latest_files() functions to both the netaddr.eui and netaddr.ip modules to assist in automating release builds.

^^
Specific bug fixes addressed in this release
^^

FIXED Issue 32 - http://code.google.com/p/netaddr/issues/detail?id=32

- Addr.__ne__ returns wrong answer

Release: 0.6.1

Date: 6th Apr 2009

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Changes since 0.6
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* Added COPYRIGHT file with details and attribution for all 3rd party files bundled with netaddr.

* Minimum Python version required is now 2.4.x changed from 2.3.x.

- Python 2.3 compatibility code in many sections of code have been removed.

- the @property and @staticmethod decorators are now used throughout the code along with the reversed() and sorted() builtin iterators.

- A specific version check has also been added that will raise RuntimeError exceptions if you run netaddr on a Python interpreter version < 2.4.x.

* Integer addresses passed to the IP() and EUI() constructors no longer require a mandatory second address type (AT_*) argument in most cases. This is now only really required to disambiguate between IPv4/IPv6 addresses with the same numerical value. The same behaviour applies to EUI-48/EUI-64 identifiers. A small speed boost is achieved if the 2nd address type argument is explicitly provided.

* IPv6 addresses returned by EUI.ipv6_link_local() now always have a subnet prefix of /64.

* Default sort order of aggregate classes (IPRange, CIDR and Wildcard) has been changed (again). They now sort initially by first address and then by network block size from largest to smallest which feels more natural.

* Fixed a bug in the CIDR.abbrev_to_verbose() static method where IPv4 addresses with 4 octets (i.e. non-partial addresses) were being assigned subnet prefixes using abbreviated rules. All complete IPv4 addresses should always get a /32 prefix where it is not explicitly provided.

* Abbreviated address expansion in the CIDR constructor is now optional and can be controlled by a new 'expand_abbrev' boolean argument.

* Added the new CIDR.summarize() static method which transforms lists of IP addresses and CIDRs into their most compact forms. Great for trimming down large ad hoc address lists!

* Added the previous() and next() methods to the CIDR classes which return the CIDR subnets either side of a given CIDR that are of the same size. For the CIDR 192.0.2.0/24, previous will return 192.0.1.0/24 and next will return 192.0.3.0/24. Also accepts and optional step size (default is 1).

* Added the supernet() method to the CIDR class which returns a generator

of
all the subnets that contain the current CIDR found by decrementing the
prefixlen value for each step until it reaches zero.

* Changed the way the fallback code works when the socket module is missing
important constants and functions.

* Removed the uppercase options from the Strategy constructors and internals
as this behaviour can be easily replicated using the word_fmt option
instead and requires less code (word_fmt='%X').

^^
Specific bug fixes addressed in this release
^^

FIXED Issue 23 - http://code.google.com/p/netaddr/issues/detail?id=23

- Improve IPv6 IPv4 mapped/compatible address formatting

FIXED Issue 24 - http://code.google.com/p/netaddr/issues/detail?id=24

- bug in CIDR.subnet() when using the fmt argument

FIXED Issue 29 - http://code.google.com/p/netaddr/issues/detail?id=29

- CIDR.subnet method's count argument isn't working as documented

FIXED Issue
30 - http://code.google.com/p/netaddr/issues/detail?id=30

- not compatible with Python 2.3

FIXED Issue 31 - http://code.google.com/p/netaddr/issues/detail?id=31

- byte order in documentation confusing or wrong

Release: 0.6

Date: 20th Jan 2009

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Changes since 0.5.x
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* Namespace changes

3 new sub namespaces have been added :-

- netaddr.eui

Currently contains IEEE OUI and IAB classes and lookup code.

- netaddr.ip

Currently contains IANA IPv4, IPv6 and IPv4 multicast lookup code.

- netaddr.core

Currently contains only a couple of classes that are shared between code in
netaddr.eui and netaddr.ip.

Please Note: This change is part of a two stage internal restructuring of
netaddr. In future releases, layer-2 MAC/EUI functionality will be separated
from and layer-3 IP, CIDR and Wildcard functionality. All shared code will
be moved to netaddr.core. When the migration is complete
(expected in 0.7)
the netaddr.address and netaddr.strategy namespaces will be removed. Please
endeavour to access everything you need via the top-level netaddr namespace
from this release onwards. See netaddr.__all__ for details of constants,
objects, classes and functions intended for the public interface.

* Addition of IEEE and IANA informational lookups

- the IP() and EUI() classes now have an additional info() method through
  which contextual information about your addresses can be accessed. This
  data is published by IANA and the IEEE respectively and sourced directly
  from text files bundled with netaddr that are available for download
  publicly online. Details are available in the docstring of the relevant
  parsing classes. Subsequent netaddr releases will endeavour to keep
  up-to-date with any updates to these files.

- the EUI() class has been updated with the addition of the OUI() and IAB()
  classes. They provide object based access
to returned via the EUI.info()
  method. Please see API docs included with netaddr for details.

- added new NotRegisteredError exception that is raised when an EUI doesn't
  match any currently registration entries in the IEEE registry files.

* Addr() class removed from the public interface

- This class is only ever meant to be used internally and its usage may soon
  be deprecated in favour converting it into an abstract base class in
  future releases.

* Deletion of AddrRange() class

- replaced with the more specific IPRange() class. AddrRange() wasn't very useful in practice. Too much time has been spent explaining its theoretical merits over its actual practicality for every day use.

* Addition of new IPRange() class

- the new base class for CIDR() and Wildcard().

- a 'killer feature' of this new class are the new methods iprange(), cidrs() and wildcard() which allow you to use and switch between all 3 formats easily. IPRange('x', 'y').cidrs() is particularly useful returning all the intervening CIDRs between 2 arbitrary IP addresses.

- IPRange() is a great place to expose several new methods available to sub classes. They are issupernet(), issubnet(), adjacent() and overlaps().

- previous method called data_flavour() has been renamed (again) to a more suitable format().

* IP() class updates

- is_netmask() and is_hostmask() methods have been optimised and are now both approximately 4 times faster than previously!

- added wildcard() and iprange() methods that return pre-initialised objects of those classes based on the current netmask / subnet prefix.

- copy constructor methods ipv4() and ipv6() now preserve the value of the prefixlen property now also support IPv6 options for returning IPv4-mapped or IPv4-compatible IPv6 addresses.

- added new methods is_loopback(), is_private(), is_link_local(), is_ipv4_mapped() and is_ipv4_compat() which are all self explanatory.

- added a bin() method which provides an IP address in the same format as the standard Python bin() builtin type ('0bxxx') now available in Python 2.6.x and higher.

- added a packed() method which provides an IP address in packed binary string format, suitable for passing directly to Python socket calls.

* nrange() generator function updates

- by default this now returns IP() objects instead of Addr() objects.

* CIDR() class updates

- the 'strict_bitmask' option in the CIDR class constructor has been had a name change and is now just 'strict' (less typing).

- support for Cisco ACL-style (hostmask) prefixes. Also available to the IP() class. They are converted to their netmask equivalents before being applied to the base address.

- added a new subnet() generator method that returns iterators to subnet CIDRs found within the current CIDR object's boundaries e.g. a /24 CIDR can provide address with subnet prefixes
between a /25 and /32.

- added a new span() method which takes a list of IP, IPRange, CIDR and/or Wildcards returning a single CIDR that 'spans' the lowest and highest boundary addresses. An important property of this class is that only a single CIDR is returned and that it (potentially) overlaps the start and end addresses. The most important aspect of this method is that it identifies the left-most set of bits that are common to all supplied addresses. It is the plumbing that makes a lot of other features function correctly.

- although IPv6 doesn't support the concept of a broadcast address, after some pondering I've decide to add network() and broadcast() methods to the CIDR class. It is an interface quirk that users expect so it has been added for ease of use.

- the methods network(), broadcast(), hostmask() and netmask() have been wrapped in property() builtin calls to make them appear as read-only properties.

*
Many more MAC and IPv4 string address representation are now supported

- Improvements to both EUI and IP classes. They now accept many more valid address formats than previously. Thanks for all the bugs tickets raised.

* ``__repr__()`` method behaviour change

- Using ``repr()`` now assume that you have performed a ``from netaddr import *`` before you execute them. They no longer specify the originating namespace of objects which is a bit unnecessary and a lot to read on-screen.They will also be moving around within the namespace shortly anyway so its best not to think of them as being anywhere other than directly below netaddr itself.

* 'klass' property renamed to 'fmt' (format)

- now referred to as the 'format callable' property. An unfortunately but necessary change. 'klass' was a bad initial name choice as it most often doesn't even reference a class object also supporting references to Python types, builtin functions and user defined callables.

* Complete re-work and consolidation of unit tests.

- now over 100 tests covering all aspects of the API and library functionality.
- Moved all tests into a single file. Lots of additional tests have been added along with interface checks to ensure netaddr's always presents a predictable set of properties and methods across releases.

* Nascent support for Python eggs and setuptools.

- Help is need to test this as it is not something I use personally.

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Date: 29th Sep 2008

^^^

class logic and made external attributes changes much
safer and less error prone. It has also made aggregate classes such as CIDR
and Wildcard effectively read-write rather than read-only which they have
been up until this release.

* Amended the way sort order is calculated for Addr and AddrRange (sub)class
instances so that the address type is taken into account as well as as the
numerical value of the address or address range. The ascending sort order
is IPv4, IPv6, EUI-48 and EUI-64. Sequences of AddrRange (sub)class
instances now sort correctly!

* Comparisons between instances of Addr and AddrRange (sub)classes now return
False, rather than raising an AttributeError.

* Added checks and workaround code for Python runtime environments that suffer
from the infamous socket module inet_aton('255.255.255.255') bug. This was
discovered recently in Python 2.4.x on PowerPC under MacOS X. The fix also
applies in cases where the socket module is not
available (e.g. on Google
App Engine).

* All general Exception raising in the strategy module has now been replaced
with more specific exceptions, mainly ValueError (these were unintentionally
missed out of the 0.4 release).

* Implemented __hash__() operations for the Addr and AddrStrategy classes. This
allows you to use IP, CIDR and Wildcard objects as keys in dictionaries and
as elements in sets. Please note - this is currently an experimental feature
which may change in future releases.

* Added __ne__() operation to Addr and AddrRange classes.

* Obeying the 'Law of Demeter', the address type of Addr and AddrRange
(sub)class instances can be accessed using the property directly :-

```
obj.addr_type  # 0.5 onwards
```

rather than having to go via the strategy object :-

```
obj.strategy.addr_type  # 0.4 and earlier
```

* Renamed the AT_DESCR lookup dictionary to AT_NAMES. Removed invalid and
duplicated imports from all modules.

Addr class changes

*

Removed the setvalue() method from the Addr class and replaced all uses of
__setattr__() replaced by custom descriptors throughout.

IP class changes

* Removed the ambiguity with masklen and prefixlen attributes in the IP class.
prefixlen now denotes the number of bits that define the netmask for an IP
address. The new method netmask_bits() returns the number of non-zero bits
in an IP object if the is_netmask() method returns True. A prefixlen value
other than /32 for an address where is_netmask() returns True is invalid
and will raise a ValueError exception.

* Removed the family() method from the IP class. It duplicates information
now provided by the prefixlen property.

* IP class has several new methods. is_multicast() and is_unicast() quickly
tell you what category of IP address you have and while ipv4() and ipv6()
act as IPv4 <-> IPv6 conversions or copy constructors depending on context.

* Reverse DNS lookup entries now contain a trailing, top-level
period (.)
character appended to them.

* Added the hostname() method to IP instances which performs a reverse DNS

* The IP class __str__() method now omits the subnet prefix is now implicit
for IPv4 addresses that are /32 and IPv6 addresses that are /128. Subnet
prefix is maintained in return value for all other values.

AddrRange class changes

* The AddrRange class no longer stores instances of Addr (sub)classes for the
first and last address in the range. The instance variables self.start_addr
and self.stop_addr have been renamed to self.first and self.last and the
methods obj.first() and obj.last() have been removed.

Instead, self.first and self.last contain integer values and a reference
to a strategy object is stored. Doing this is a lot more useful and cleaner
for implementing internal logic.

To get Addr (sub)class objects (or strings, hex etc when manipulating the
the klass property) use the index values obj[0] and obj[-1] as a substitute
for obj.first() and obj.last() respectively.

* AddrRange (sub)class instances now define the increment, __iadd__(), and
decrement, __isub__(), operators. This allows you to 'slide' CIDRs and
Wildcards upwards and downwards based on their block sizes.

* The _retval() method has now been renamed data_flavour() - yes, the UK spelling ;-) You shouldn't really care much about this as it mostly for internal use. I gave it a decent name as I didn't see any real need to hide the functionality if users wanted it.

CIDR class changes

* The strictness of the CIDR class constructor in relation to non-zero bits once the prefix bitmask has been applied can be disabled use the optional argument strict_bitmask=False. It is True (strictness enabled) by default.

* Fixed a bug in abbreviated CIDR conversion. Subnet prefix for multicast address 224.0.0.0 is now /4 instead of /8.

* The CIDR class now supports subtraction between two CIDR objects, returning a list
of the remainder. Please note that the bigger of the two CIDR objects must be on the left hand side of the the expression, otherwise an empty list is return. Sorry, you are not allowed to create negative CIDRs ;-)

* The function abbrev_to_cidr() has been renamed to and turned into the static method CIDR.abbrev_to_verbose(). No major changes to the logic have been made.

Wildcard class changes

* The Wildcard class now defines a static method Wildcard.is_valid() that allows you to perform validity tests on wildcard strings without fully instantiation a Wildcard object.

Release: 0.4

Date: 7th Aug 2008

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Changes since 0.3.x
^^^^^^^^^^^^^^^^^^^

* All general Exception raising has been replaced with more specific exceptions such as TypeError and ValueError and with the addition of two custom exception classes, AddrFormatError and AddrConversionError.

* The IP class now accepts a subnet prefix. It is *NOT* strict about non-zero
bits to the right of implied subnet mask, unlike the CIDR class (see below).

* The CIDR class is now completely strict about non-zero bits to the right of

the implied subnet netmask and raises a ValueError if they exist, with a
handy hint as to the correct CIDR to be used based on the supplied subnet
prefix.

* The CIDR class now also supports abbreviated CIDR ranges and uses older
classful network address rules to decided on a subnet prefix if one is not
explicitly provided. Supported forms now include 10, 10/8 and 192.168/16.
Currently only supports these options for IPv4 CIDR address ranges.

* __repr__() methods have been defined for all classes in the netaddr module
producing executable Python statements that can be used to re-create the
state of any object.

* CIDR and Wildcard classes now have methods that support conversions between
these two aggregate types :-

  * CIDR -> Wildcard
  * Wildcard -> CIDR

^^^^^^^^^^^^^^^^^^^^
Housekeeping
Changes
^^^^^^^^^^^^^^^^^^^^

* Massive docstring review and tidy up with the inclusino of epydoc specific
syntax to spruce up auto-generated API documentation.

* Thorough review of code using pylint.

* Netaddr module now has the special __version__ variable defined which is
also referenced by setup.py.

* Some minor changes to setup.py and MANIFEST.in.

* Constants and custom Exception classes have been moved to __init__.py from
strategy.py

* An import * friendly __all__ has been defined for the netaddr namespace
which should remove the need to delve too much into the address and strategy
submodules.

* Fixed a number of line-ending issues in several files.

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1.2817 tpm2-tss-tcti 3.2.0-1ubuntu1.1

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1.2818 nghttp2 1.7.2

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set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1
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1.2819 sqlite 3.45.2

1.2819.1 Available under license :

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```
/*
** CAPI3REF: Configuration Options
** KEYWORDS: {configuration option}
**
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
**
** Most of the configuration options for sqlite3_config()
** will only work if invoked prior to [sqlite3_initialize()] or after
** [sqlite3_shutdown()].  The few exceptions to this rule are called
** "anytime configuration options".
** ^Calling [sqlite3_config()] with a first argument that is not an
** anytime configuration option in between calls to [sqlite3_initialize()] and
** [sqlite3_shutdown()] is a no-op that returns SQLITE_MISUSE.
**
** The set of anytime configuration options can change (by insertions
** and/or deletions) from one release of SQLite to the next.
** As of SQLite version 3.42.0, the complete set of anytime configuration
** options is:
** <ul>
** <li> SQLITE_CONFIG_LOG
**
 <li> SQLITE_CONFIG_PCACHE_HDRSZ
** </ul>
**
** New configuration options may be added in future releases of SQLite.
** Existing configuration options might be discontinued.  Applications
** should check the return code from [sqlite3_config()] to make sure that
** the call worked.  The [sqlite3_config()] interface will return a
** non-zero [error code] if a discontinued or unsupported configuration option
** is invoked.
**
** <dl>
** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Single-thread.  In other words, it disables
** all mutexing and puts SQLite into a mode where it can only be used
** by a single thread.   ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to change the [threading mode] from its default
** value of Single-thread and so [sqlite3_config()] will return
** [SQLITE_ERROR] if called
```

```
 with the SQLITE_CONFIG_SINGLETHREAD
** configuration option.</dd>
**
** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Multi-thread.  In other words, it disables
** mutexing on [database connection] and [prepared statement] objects.
** The application is responsible for serializing access to
** [database connections] and [prepared statements].  But other mutexes
** are enabled so that SQLite will be safe to use in a multi-threaded
** environment as long as no two threads attempt to use the same
** [database connection] at the same time.  ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Multi-thread [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>
**
** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
**
 <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Serialized. In other words, this option enables
** all mutexes including the recursive
** mutexes on [database connection] and [prepared statement] objects.
** In this mode (which is the default when SQLite is compiled with
** [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access
** to [database connections] and [prepared statements] so that the
** application is free to use the same [database connection] or the
** same [prepared statement] in different threads at the same time.
** ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Serialized [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_SERIALIZED configuration option.</dd>
**
** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_MALLOC option
 takes a single argument which is
** a pointer to an instance of the [sqlite3_mem_methods] structure.
** The argument specifies
** alternative low-level memory allocation routines to be used in place of
** the memory allocation routines built into SQLite.)^ ^SQLite makes
** its own private copy of the content of the [sqlite3_mem_methods] structure
** before the [sqlite3_config()] call returns.</dd>
**
** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_GETMALLOC option takes a single argument which
** is a pointer to an instance of the [sqlite3_mem_methods] structure.
** The [sqlite3_mem_methods]
```

```
** structure is filled with the currently defined memory allocation routines.)^
** This option can be used to overload the default memory allocation
** routines with a wrapper that simulations memory allocation failure or
** tracks memory usage, for example. </dd>
**
** [[SQLITE_CONFIG_SMALL_MALLOC]] <dt>SQLITE_CONFIG_SMALL_MALLOC</dt>
** <dd> ^The SQLITE_CONFIG_SMALL_MALLOC
 option takes single argument of
** type int, interpreted as a boolean, which if true provides a hint to
** SQLite that it should avoid large memory allocations if possible.
** SQLite will run faster if it is free to make large memory allocations,
** but some application might prefer to run slower in exchange for
** guarantees about memory fragmentation that are possible if large
** allocations are avoided.  This hint is normally off.
** </dd>
**
** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
** <dd> ^The SQLITE_CONFIG_MEMSTATUS option takes single argument of type int,
** interpreted as a boolean, which enables or disables the collection of
** memory allocation statistics. ^(When memory allocation statistics are
** disabled, the following SQLite interfaces become non-operational:
**   <ul>
**   <li> [sqlite3_hard_heap_limit64()]
**   <li> [sqlite3_memory_used()]
**   <li> [sqlite3_memory_highwater()]
**   <li> [sqlite3_soft_heap_limit64()]
**
   <li> [sqlite3_status64()]
**   </ul>)^
** ^Memory allocation statistics are enabled by default unless SQLite is
** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory
** allocation statistics are disabled by default.
** </dd>
**
** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>
** <dd> The SQLITE_CONFIG_SCRATCH option is no longer used.
** </dd>
**
** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd> ^The SQLITE_CONFIG_PAGECACHE option specifies a memory pool
** that SQLite can use for the database page cache with the default page
** cache implementation.
** This configuration option is a no-op if an application-defined page
** cache implementation is loaded using the [SQLITE_CONFIG_PCACHE2].
** ^There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to
** 8-byte aligned memory (pMem), the size of each page cache line (sz),
** and the number of cache lines (N).
** The sz argument should be the size of the largest database page
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** (a power
 of two between 512 and 65536) plus some extra bytes for each
** page header.  ^The number of extra bytes needed by the page header
** can be determined using [SQLITE_CONFIG_PCACHE_HDRSZ].
** ^It is harmless, apart from the wasted memory,
** for the sz parameter to be larger than necessary.  The pMem
** argument must be either a NULL pointer or a pointer to an 8-byte
** aligned block of memory of at least sz*N bytes, otherwise
** subsequent behavior is undefined.
** ^When pMem is not NULL, SQLite will strive to use the memory provided
** to satisfy page cache needs, falling back to [sqlite3_malloc()] if
** a page cache line is larger than sz bytes or if all of the pMem buffer
** is exhausted.
** ^If pMem is NULL and N is non-zero, then each database connection
** does an initial bulk allocation for page cache memory
** from [sqlite3_malloc()] sufficient for N cache lines if N is positive or
** of -1024*N bytes if N is negative, . ^If additional
** page cache memory is needed beyond
 what is provided by the initial
** allocation, then SQLite goes to [sqlite3_malloc()] separately for each
** additional cache line. </dd>
**
** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
** <dd> ^The SQLITE_CONFIG_HEAP option specifies a static memory buffer
** that SQLite will use for all of its dynamic memory allocation needs
** beyond those provided for by [SQLITE_CONFIG_PAGECACHE].
** ^The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled
** with either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns
** [SQLITE_ERROR] if invoked otherwise.
** ^There are three arguments to SQLITE_CONFIG_HEAP:
** An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum allocation size.
** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC].  ^If the
** memory pointer
 is not NULL then the alternative memory
** allocator is engaged to handle all of SQLites memory allocation needs.
** The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** The minimum allocation size is capped at 2**12. Reasonable values
** for the minimum allocation size are 2**5 through 2**8.</dd>
**
** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_MUTEX option takes a single argument which is a
** pointer to an instance of the [sqlite3_mutex_methods] structure.
** The argument specifies alternative low-level mutex routines to be used
** in place the mutex routines built into SQLite.)^  ^SQLite makes a copy of
```

```
** the content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()] returns. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the
 build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_GETMUTEX option takes a single argument which
** is a pointer to an instance of the [sqlite3_mutex_methods] structure.  The
** [sqlite3_mutex_methods]
** structure is filled with the currently defined mutex routines.)^
** This option can be used to overload the default mutex allocation
** routines with a wrapper used to track mutex usage for performance
** profiling or testing, for example.   ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
** <dd> ^(The SQLITE_CONFIG_LOOKASIDE
 option takes two arguments that determine
** the default size of lookaside memory on each [database connection].
** The first argument is the
** size of each lookaside buffer slot and the second is the number of
** slots allocated to each database connection.)^  ^(SQLITE_CONFIG_LOOKASIDE
** sets the <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** option to [sqlite3_db_config()] can be used to change the lookaside
** configuration on individual connections.)^ </dd>
**
** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_PCACHE2 option takes a single argument which is
** a pointer to an [sqlite3_pcache_methods2] object.  This object specifies
** the interface to a custom page cache implementation.)^
** ^SQLite makes a copy of the [sqlite3_pcache_methods2] object.</dd>
**
** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_GETPCACHE2 option takes a single argument which
** is
 a pointer to an [sqlite3_pcache_methods2] object.  SQLite copies of
** the current page cache implementation into that object.)^ </dd>
**
** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
** global [error log].
** (^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
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** function with a call signature of void(*)(void*,int,const char*),
** and a pointer to void. ^If the function pointer is not NULL, it is
** invoked by [sqlite3_log()] to process each logging event.  ^If the
** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is
** passed through as the first parameter to the application-defined logger
** function whenever that function is invoked.  ^The second parameter to
** the logger function is a copy of the first parameter to the corresponding
** [sqlite3_log()] call and is intended to be a [result code] or
 an
** [extended result code].  ^The third parameter passed to the logger is
** log message after formatting via [sqlite3_snprintf()].
** The SQLite logging interface is not reentrant; the logger function
** supplied by the application must not invoke any SQLite interface.
** In a multi-threaded application, the application-defined logger
** function must be threadsafe. </dd>
**
** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI
** <dd>^(The SQLITE_CONFIG_URI option takes a single argument of type int.
** If non-zero, then URI handling is globally enabled. If the parameter is zero,
** then URI handling is globally disabled.)^ ^If URI handling is globally
** enabled, all filenames passed to [sqlite3_open()], [sqlite3_open_v2()],
** [sqlite3_open16()] or
** specified as part of [ATTACH] commands are interpreted as URIs, regardless
** of whether or not the [SQLITE_OPEN_URI] flag is set when the database
** connection is opened. ^If it is globally disabled, filenames are
** only interpreted as
 URIs if the SQLITE_OPEN_URI flag is set when the
** database connection is opened. ^(By default, URI handling is globally
** disabled. The default value may be changed by compiling with the
** [SQLITE_USE_URI] symbol defined.)^
**
** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN
** <dd>^The SQLITE_CONFIG_COVERING_INDEX_SCAN option takes a single integer
** argument which is interpreted as a boolean in order to enable or disable
** the use of covering indices for full table scans in the query optimizer.
** ^The default setting is determined
** by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"
** if that compile-time option is omitted.
** The ability to disable the use of covering indices for full table scans
** is because some incorrectly coded legacy applications might malfunction
** when the optimization is enabled.  Providing the ability to
** disable the optimization allows the older, buggy application code to work
** without change
 even with newer versions of SQLite.
**
** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]
** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
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** <dd> These options are obsolete and should not be used by new code.
** They are retained for backwards compatibility but are now no-ops.
** </dd>
**
** [[SQLITE_CONFIG_SQLLOG]]
** <dt>SQLITE_CONFIG_SQLLOG
** <dd>This option is only available if sqlite is compiled with the
** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
** be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).
** The second should be of type (void*). The callback is invoked by the library
** in three separate circumstances, identified by the value passed as the
** fourth parameter. If the fourth parameter is 0, then the database connection
** passed as the second argument has just been opened. The third argument
** points to a buffer containing the name of the main database file. If the
** fourth parameter is 1,
 then the SQL statement that the third parameter
** points to has just been executed. Or, if the fourth parameter is 2, then
** the connection being passed as the second parameter is being closed. The
** third parameter is passed NULL In this case.  An example of using this
** configuration option can be seen in the "test_sqllog.c" source file in
** the canonical SQLite source tree.</dd>
**
** [[SQLITE_CONFIG_MMAP_SIZE]]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd>^SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** ^The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control.  ^(The maximum allowed mmap size
** will be silently truncated if necessary so that it does not exceed the
** compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE]
 compile-time option.)^
** ^If either argument to this option is negative, then that argument is
** changed to its compile-time default.
**
** [[SQLITE_CONFIG_WIN32_HEAPSIZE]]
** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE
** <dd>^The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is
** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
** defined. ^SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
** that specifies the maximum size of the created heap.
**
** [[SQLITE_CONFIG_PCACHE_HDRSZ]]
** <dt>SQLITE_CONFIG_PCACHE_HDRSZ
** <dd>^The SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which
** is a pointer to an integer and writes into that integer the number of extra
```

** bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
** The amount of extra space required can change depending on the compiler,
** target platform, and SQLite version.
**
** [[SQLITE_CONFIG_PMASZ]]
** <dt>SQLITE_CONFIG_PMASZ
** <dd>^The
 SQLITE_CONFIG_PMASZ option takes a single parameter which
** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded
** sorter to that integer. The default minimum PMA Size is set by the
** [SQLITE_SORTER_PMASZ] compile-time option. New threads are launched
** to help with sort operations when multithreaded sorting
** is enabled (using the [PRAGMA threads] command) and the amount of content
** to be sorted exceeds the page size times the minimum of the
** [PRAGMA cache_size] setting and this value.
**
** [[SQLITE_CONFIG_STMTJRNL_SPILL]]
** <dt>SQLITE_CONFIG_STMTJRNL_SPILL
** <dd>^The SQLITE_CONFIG_STMTJRNL_SPILL option takes a single parameter which
** becomes the [statement journal] spill-to-disk threshold.
** [Statement journals] are held in memory until their size (in bytes)
** exceeds this threshold, at which point they are written to disk.
** Or if the threshold is -1, statement journals are always held
** exclusively in memory.
** Since many statement journals
 never become large, setting the spill
** threshold to a value such as 64KiB can greatly reduce the amount of
** I/O required to support statement rollback.
** The default value for this setting is controlled by the
** [SQLITE_STMTJRNL_SPILL] compile-time option.
**
** [[SQLITE_CONFIG_SORTERREF_SIZE]]
** <dt>SQLITE_CONFIG_SORTERREF_SIZE
** <dd>The SQLITE_CONFIG_SORTERREF_SIZE option accepts a single parameter
** of type (int) - the new value of the sorter-reference size threshold.
** Usually, when SQLite uses an external sort to order records according
** to an ORDER BY clause, all fields required by the caller are present in the
** sorted records. However, if SQLite determines based on the declared type
** of a table column that its values are likely to be very large - larger
** than the configured sorter-reference size threshold - then a reference
** is stored in each sorted record and the required column values loaded
** from the database as records are returned in sorted order.
 The default
** value for this option is to never use this optimization. Specifying a
** negative value for this option restores the default behavior.
** This option is only available if SQLite is compiled with the
** [SQLITE_ENABLE_SORTER_REFERENCES] compile-time option.
**

```
** [[SQLITE_CONFIG_MEMDB_MAXSIZE]]
** <dt>SQLITE_CONFIG_MEMDB_MAXSIZE
** <dd>The SQLITE_CONFIG_MEMDB_MAXSIZE option accepts a single parameter
** [sqlite3_int64] parameter which is the default maximum size for an in-memory
** database created using [sqlite3_deserialize()].  This default maximum
** size can be adjusted up or down for individual databases using the
** [SQLITE_FCNTL_SIZE_LIMIT] [sqlite3_file_control|file-control].  If this
** configuration setting is never used, then the default maximum is determined
** by the [SQLITE_MEMDB_DEFAULT_MAXSIZE] compile-time option.  If that
** compile-time option is not set, then the default maximum is 1073741824.
** </dl>
*/
```

Found in path(s):
* /opt/cola/permits/2037856323_1717430377.9808547/0/sqlite-amalgamation-3450200-zip/sqlite-amalgamation-3450200/sqlite3.h
No license file was found, but licenses were detected in source scan.

```
/*
** CAPI3REF: Configuration Options
** KEYWORDS: {configuration option}
**
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
**
** Most of the configuration options for sqlite3_config()
** will only work if invoked prior to [sqlite3_initialize()] or after
** [sqlite3_shutdown()].  The few exceptions to this rule are called
** "anytime configuration options".
** ^Calling [sqlite3_config()] with a first argument that is not an
** anytime configuration option in between calls to [sqlite3_initialize()] and
** [sqlite3_shutdown()] is a no-op that returns SQLITE_MISUSE.
**
** The set of anytime configuration options can change (by insertions
** and/or deletions) from one release of SQLite to the next.
** As of SQLite version 3.42.0, the complete set of anytime configuration
** options is:
** <ul>
** <li> SQLITE_CONFIG_LOG
**
 <li> SQLITE_CONFIG_PCACHE_HDRSZ
** </ul>
**
** New configuration options may be added in future releases of SQLite.
** Existing configuration options might be discontinued.  Applications
** should check the return code from [sqlite3_config()] to make sure that
** the call worked.  The [sqlite3_config()] interface will return a
** non-zero [error code] if a discontinued or unsupported configuration option
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** is invoked.
**
** <dl>
** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Single-thread.  In other words, it disables
** all mutexing and puts SQLite into a mode where it can only be used
** by a single thread.   ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to change the [threading mode] from its default
** value of Single-thread and so [sqlite3_config()] will return
** [SQLITE_ERROR] if called
 with the SQLITE_CONFIG_SINGLETHREAD
** configuration option.</dd>
**
** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Multi-thread.  In other words, it disables
** mutexing on [database connection] and [prepared statement] objects.
** The application is responsible for serializing access to
** [database connections] and [prepared statements].  But other mutexes
** are enabled so that SQLite will be safe to use in a multi-threaded
** environment as long as no two threads attempt to use the same
** [database connection] at the same time.  ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Multi-thread [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>
**
** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
**
 <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Serialized. In other words, this option enables
** all mutexes including the recursive
** mutexes on [database connection] and [prepared statement] objects.
** In this mode (which is the default when SQLite is compiled with
** [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access
** to [database connections] and [prepared statements] so that the
** application is free to use the same [database connection] or the
** same [prepared statement] in different threads at the same time.
** ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Serialized [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_SERIALIZED configuration option.</dd>
**
** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_MALLOC option
```

```
 takes a single argument which is
** a pointer to an instance of the [sqlite3_mem_methods] structure.
** The argument specifies
** alternative low-level memory allocation routines to be used in place of
** the memory allocation routines built into SQLite.)^ ^SQLite makes
** its own private copy of the content of the [sqlite3_mem_methods] structure
** before the [sqlite3_config()] call returns.</dd>
**
** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_GETMALLOC option takes a single argument which
** is a pointer to an instance of the [sqlite3_mem_methods] structure.
** The [sqlite3_mem_methods]
** structure is filled with the currently defined memory allocation routines.)^
** This option can be used to overload the default memory allocation
** routines with a wrapper that simulations memory allocation failure or
** tracks memory usage, for example. </dd>
**
** [[SQLITE_CONFIG_SMALL_MALLOC]] <dt>SQLITE_CONFIG_SMALL_MALLOC</dt>
** <dd> ^The SQLITE_CONFIG_SMALL_MALLOC
 option takes single argument of
** type int, interpreted as a boolean, which if true provides a hint to
** SQLite that it should avoid large memory allocations if possible.
** SQLite will run faster if it is free to make large memory allocations,
** but some application might prefer to run slower in exchange for
** guarantees about memory fragmentation that are possible if large
** allocations are avoided.  This hint is normally off.
** </dd>
**
** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
** <dd> ^The SQLITE_CONFIG_MEMSTATUS option takes single argument of type int,
** interpreted as a boolean, which enables or disables the collection of
** memory allocation statistics. ^(When memory allocation statistics are
** disabled, the following SQLite interfaces become non-operational:
**   <ul>
**   <li> [sqlite3_hard_heap_limit64()]
**   <li> [sqlite3_memory_used()]
**   <li> [sqlite3_memory_highwater()]
**   <li> [sqlite3_soft_heap_limit64()]
**
   <li> [sqlite3_status64()]
**   </ul>)^
** ^Memory allocation statistics are enabled by default unless SQLite is
** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory
** allocation statistics are disabled by default.
** </dd>
**
** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>
** <dd> The SQLITE_CONFIG_SCRATCH option is no longer used.
```

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** </dd>
**
** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd> ^The SQLITE_CONFIG_PAGECACHE option specifies a memory pool
** that SQLite can use for the database page cache with the default page
** cache implementation.
** This configuration option is a no-op if an application-defined page
** cache implementation is loaded using the [SQLITE_CONFIG_PCACHE2].
** ^There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to
** 8-byte aligned memory (pMem), the size of each page cache line (sz),
** and the number of cache lines (N).
** The sz argument should be the size of the largest database page
** (a power
 of two between 512 and 65536) plus some extra bytes for each
** page header.  ^The number of extra bytes needed by the page header
** can be determined using [SQLITE_CONFIG_PCACHE_HDRSZ].
** ^It is harmless, apart from the wasted memory,
** for the sz parameter to be larger than necessary.  The pMem
** argument must be either a NULL pointer or a pointer to an 8-byte
** aligned block of memory of at least sz*N bytes, otherwise
** subsequent behavior is undefined.
** ^When pMem is not NULL, SQLite will strive to use the memory provided
** to satisfy page cache needs, falling back to [sqlite3_malloc()] if
** a page cache line is larger than sz bytes or if all of the pMem buffer
** is exhausted.
** ^If pMem is NULL and N is non-zero, then each database connection
** does an initial bulk allocation for page cache memory
** from [sqlite3_malloc()] sufficient for N cache lines if N is positive or
** of -1024*N bytes if N is negative, . ^If additional
** page cache memory is needed beyond
 what is provided by the initial
** allocation, then SQLite goes to [sqlite3_malloc()] separately for each
** additional cache line. </dd>
**
** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
** <dd> ^The SQLITE_CONFIG_HEAP option specifies a static memory buffer
** that SQLite will use for all of its dynamic memory allocation needs
** beyond those provided for by [SQLITE_CONFIG_PAGECACHE].
** ^The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled
** with either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns
** [SQLITE_ERROR] if invoked otherwise.
** ^There are three arguments to SQLITE_CONFIG_HEAP:
** An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum allocation size.
** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC].  ^If the
** memory pointer
```

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 is not NULL then the alternative memory
** allocator is engaged to handle all of SQLites memory allocation needs.
** The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** The minimum allocation size is capped at 2**12. Reasonable values
** for the minimum allocation size are 2**5 through 2**8.</dd>
**
** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_MUTEX option takes a single argument which is a
** pointer to an instance of the [sqlite3_mutex_methods] structure.
** The argument specifies alternative low-level mutex routines to be used
** in place the mutex routines built into SQLite.)^  ^SQLite makes a copy of
** the content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()] returns. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the
 build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_GETMUTEX option takes a single argument which
** is a pointer to an instance of the [sqlite3_mutex_methods] structure.  The
** [sqlite3_mutex_methods]
** structure is filled with the currently defined mutex routines.)^
** This option can be used to overload the default mutex allocation
** routines with a wrapper used to track mutex usage for performance
** profiling or testing, for example.   ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
** <dd> ^(The SQLITE_CONFIG_LOOKASIDE
 option takes two arguments that determine
** the default size of lookaside memory on each [database connection].
** The first argument is the
** size of each lookaside buffer slot and the second is the number of
** slots allocated to each database connection.)^  ^(SQLITE_CONFIG_LOOKASIDE
** sets the <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** option to [sqlite3_db_config()] can be used to change the lookaside
** configuration on individual connections.)^ </dd>
**
** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_PCACHE2 option takes a single argument which is
** a pointer to an [sqlite3_pcache_methods2] object.  This object specifies
** the interface to a custom page cache implementation.)^
```

```
** ^SQLite makes a copy of the [sqlite3_pcache_methods2] object.</dd>
**
** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_GETPCACHE2 option takes a single argument which
** is
 a pointer to an [sqlite3_pcache_methods2] object.  SQLite copies of
** the current page cache implementation into that object.)^ </dd>
**
** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
** global [error log].
** (^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
** function with a call signature of void(*)(void*,int,const char*),
** and a pointer to void. ^If the function pointer is not NULL, it is
** invoked by [sqlite3_log()] to process each logging event.  ^If the
** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is
** passed through as the first parameter to the application-defined logger
** function whenever that function is invoked.  ^The second parameter to
** the logger function is a copy of the first parameter to the corresponding
** [sqlite3_log()] call and is intended to be a [result code] or
 an
** [extended result code].  ^The third parameter passed to the logger is
** log message after formatting via [sqlite3_snprintf()].
** The SQLite logging interface is not reentrant; the logger function
** supplied by the application must not invoke any SQLite interface.
** In a multi-threaded application, the application-defined logger
** function must be threadsafe. </dd>
**
** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI
** <dd>^(The SQLITE_CONFIG_URI option takes a single argument of type int.
** If non-zero, then URI handling is globally enabled. If the parameter is zero,
** then URI handling is globally disabled.)^ ^If URI handling is globally
** enabled, all filenames passed to [sqlite3_open()], [sqlite3_open_v2()],
** [sqlite3_open16()] or
** specified as part of [ATTACH] commands are interpreted as URIs, regardless
** of whether or not the [SQLITE_OPEN_URI] flag is set when the database
** connection is opened. ^If it is globally disabled, filenames are
** only interpreted as
 URIs if the SQLITE_OPEN_URI flag is set when the
** database connection is opened. ^(By default, URI handling is globally
** disabled. The default value may be changed by compiling with the
** [SQLITE_USE_URI] symbol defined.)^
**
** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN
** <dd>^The SQLITE_CONFIG_COVERING_INDEX_SCAN option takes a single integer
** argument which is interpreted as a boolean in order to enable or disable
** the use of covering indices for full table scans in the query optimizer.
```

```
** ^The default setting is determined
** by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"
** if that compile-time option is omitted.
** The ability to disable the use of covering indices for full table scans
** is because some incorrectly coded legacy applications might malfunction
** when the optimization is enabled.  Providing the ability to
** disable the optimization allows the older, buggy application code to work
** without change
 even with newer versions of SQLite.
**
** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]
** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
** <dd> These options are obsolete and should not be used by new code.
** They are retained for backwards compatibility but are now no-ops.
** </dd>
**
** [[SQLITE_CONFIG_SQLLOG]]
** <dt>SQLITE_CONFIG_SQLLOG
** <dd>This option is only available if sqlite is compiled with the
** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
** be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).
** The second should be of type (void*). The callback is invoked by the library
** in three separate circumstances, identified by the value passed as the
** fourth parameter. If the fourth parameter is 0, then the database connection
** passed as the second argument has just been opened. The third argument
** points to a buffer containing the name of the main database file. If the
** fourth parameter is 1,
 then the SQL statement that the third parameter
** points to has just been executed. Or, if the fourth parameter is 2, then
** the connection being passed as the second parameter is being closed. The
** third parameter is passed NULL In this case.  An example of using this
** configuration option can be seen in the "test_sqllog.c" source file in
** the canonical SQLite source tree.</dd>
**
** [[SQLITE_CONFIG_MMAP_SIZE]]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd>^SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** ^The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control.  ^(The maximum allowed mmap size
** will be silently truncated if necessary so that it does not exceed the
** compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE]
 compile-time option.)^
** ^If either argument to this option is negative, then that argument is
** changed to its compile-time default.
```

```
**
** [[SQLITE_CONFIG_WIN32_HEAPSIZE]]
** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE
** <dd>^The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is
** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
** defined. ^SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
** that specifies the maximum size of the created heap.
**
** [[SQLITE_CONFIG_PCACHE_HDRSZ]]
** <dt>SQLITE_CONFIG_PCACHE_HDRSZ
** <dd>^The SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which
** is a pointer to an integer and writes into that integer the number of extra
** bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
** The amount of extra space required can change depending on the compiler,
** target platform, and SQLite version.
**
** [[SQLITE_CONFIG_PMASZ]]
** <dt>SQLITE_CONFIG_PMASZ
** <dd>^The
 SQLITE_CONFIG_PMASZ option takes a single parameter which
** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded
** sorter to that integer.  The default minimum PMA Size is set by the
** [SQLITE_SORTER_PMASZ] compile-time option.  New threads are launched
** to help with sort operations when multithreaded sorting
** is enabled (using the [PRAGMA threads] command) and the amount of content
** to be sorted exceeds the page size times the minimum of the
** [PRAGMA cache_size] setting and this value.
**
** [[SQLITE_CONFIG_STMTJRNL_SPILL]]
** <dt>SQLITE_CONFIG_STMTJRNL_SPILL
** <dd>^The SQLITE_CONFIG_STMTJRNL_SPILL option takes a single parameter which
** becomes the [statement journal] spill-to-disk threshold.
** [Statement journals] are held in memory until their size (in bytes)
** exceeds this threshold, at which point they are written to disk.
** Or if the threshold is -1, statement journals are always held
** exclusively in memory.
** Since many statement journals
 never become large, setting the spill
** threshold to a value such as 64KiB can greatly reduce the amount of
** I/O required to support statement rollback.
** The default value for this setting is controlled by the
** [SQLITE_STMTJRNL_SPILL] compile-time option.
**
** [[SQLITE_CONFIG_SORTERREF_SIZE]]
** <dt>SQLITE_CONFIG_SORTERREF_SIZE
** <dd>The SQLITE_CONFIG_SORTERREF_SIZE option accepts a single parameter
** of type (int) - the new value of the sorter-reference size threshold.
** Usually, when SQLite uses an external sort to order records according
```

```
** to an ORDER BY clause, all fields required by the caller are present in the
** sorted records. However, if SQLite determines based on the declared type
** of a table column that its values are likely to be very large - larger
** than the configured sorter-reference size threshold - then a reference
** is stored in each sorted record and the required column values loaded
** from the database as records are returned in sorted order.
 The default
** value for this option is to never use this optimization. Specifying a
** negative value for this option restores the default behavior.
** This option is only available if SQLite is compiled with the
** [SQLITE_ENABLE_SORTER_REFERENCES] compile-time option.
**
** [[SQLITE_CONFIG_MEMDB_MAXSIZE]]
** <dt>SQLITE_CONFIG_MEMDB_MAXSIZE
** <dd>The SQLITE_CONFIG_MEMDB_MAXSIZE option accepts a single parameter
** [sqlite3_int64] parameter which is the default maximum size for an in-memory
** database created using [sqlite3_deserialize()].  This default maximum
** size can be adjusted up or down for individual databases using the
** [SQLITE_FCNTL_SIZE_LIMIT] [sqlite3_file_control|file-control].  If this
** configuration setting is never used, then the default maximum is determined
** by the [SQLITE_MEMDB_DEFAULT_MAXSIZE] compile-time option.  If that
** compile-time option is not set, then the default maximum is 1073741824.
** </dl>
*/
/*
** The "printf" code that follows dates
 from the 1980's.  It is in
** the public domain.
**
*****************************************************************************
**
** This file contains code for a set of "printf"-like routines.  These
** routines format strings much like the printf() from the standard C
** library, though the implementation here has enhancements to support
** SQLite.
*/
/*
** 2004 May 22
**
** The author disclaims copyright to this source code.  In place of
** a legal notice, here is a blessing:
**
**    May you do good and not evil.
**    May you find forgiveness for yourself and forgive others.
**    May you share freely, never taking more than you give.
**
*****************************************************************************
**
```

```
** This file contains the VFS implementation for unix-like operating systems
** include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.
**
** There are actually several different VFS implementations in this file.
** The differences are in the way that file
 locking is done.  The default
** implementation uses Posix Advisory Locks.  Alternative implementations
** use flock(), dot-files, various proprietary locking schemas, or simply
** skip locking all together.
**
** This source file is organized into divisions where the logic for various
** subfunctions is contained within the appropriate division.  PLEASE
** KEEP THE STRUCTURE OF THIS FILE INTACT.  New code should be placed
** in the correct division and should be clearly labelled.
**
** The layout of divisions is as follows:
**
**   *  General-purpose declarations and utility functions.
**   *  Unique file ID logic used by VxWorks.
**   *  Various locking primitive implementations (all except proxy locking):
**      + for Posix Advisory Locks
**      + for no-op locks
**      + for dot-file locks
**      + for flock() locking
**      + for named semaphore locks (VxWorks only)
**      + for AFP filesystem locks (MacOSX only)
**   *  sqlite3_file methods not associated with locking.
**
  *  Definitions of sqlite3_io_methods objects for all locking
**      methods plus "finder" functions for each locking method.
**   *  sqlite3_vfs method implementations.
**   *  Locking primitives for the proxy uber-locking-method. (MacOSX only)
**   *  Definitions of sqlite3_vfs objects for all locking methods
**      plus implementations of sqlite3_os_init() and sqlite3_os_end().
*/
/*
** Return a pointer to the "temporary page" buffer held internally
** by the pager.  This is a buffer that is big enough to hold the
** entire content of a database page.  This buffer is used internally
** during rollback and will be overwritten whenever a rollback
** occurs.  But other modules are free to use it too, as long as
** no rollbacks are happening.
*/
```

Found in path(s):
* /opt/cola/permits/2037856323_1717430377.9808547/0/sqlite-amalgamation-3450200-zip/sqlite-amalgamation-3450200/sqlite3.c

No license file was found, but licenses were detected in source scan.

```
/*
** 2022-11-18
**
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** a legal notice, here is a blessing:
**
**    May you do good and not evil.
**    May you find forgiveness for yourself and forgive others.
**    May you share freely, never taking more than you give.
**
***********************************************************************
**
** This is a SQLite extension for converting in either direction
** between a (binary) blob and base64 text. Base64 can transit a
** sane USASCII channel unmolested. It also plays nicely in CSV or
** written as TCL brace-enclosed literals or SQL string literals,
** and can be used unmodified in XML-like documents.
**
** This is an independent implementation of conversions specified in
** RFC 4648, done on the above date by the author (Larry Brasfield)
** who thereby has the right to put this into the public domain.
**
** The conversions meet RFC 4648 requirements,
 provided that this
** C source specifies that line-feeds are included in the encoded
** data to limit visible line lengths to 72 characters and to
** terminate any encoded blob having non-zero length.
**
** Length limitations are not imposed except that the runtime
** SQLite string or blob length limits are respected. Otherwise,
** any length binary sequence can be represented and recovered.
** Generated base64 sequences, with their line-feeds included,
** can be concatenated; the result converted back to binary will
** be the concatenation of the represented binary sequences.
**
** This SQLite3 extension creates a function, base64(x), which
** either: converts text x containing base64 to a returned blob;
** or converts a blob x to returned text containing base64. An
** error will be thrown for other input argument types.
**
** This code relies on UTF-8 encoding only with respect to the
** meaning of the first 128 (7-bit) codes matching that of USASCII.
** It will fail miserably
 if somehow made to try to convert EBCDIC.
** Because it is table-driven, it could be enhanced to handle that,
** but the world and SQLite have moved on from that anachronism.
```

```
**
** To build the extension:
** Set shell variable SQDIR=<your favorite SQLite checkout directory>
** *Nix: gcc -O2 -shared -I$SQDIR -fPIC -o base64.so base64.c
** OSX: gcc -O2 -dynamiclib -fPIC -I$SQDIR -o base64.dylib base64.c
** Win32: gcc -O2 -shared -I%SQDIR% -o base64.dll base64.c
** Win32: cl /Os -I%SQDIR% base64.c -link -dll -out:base64.dll
*/
/*
** 2022-11-16
**
** The author disclaims copyright to this source code.  In place of
** a legal notice, here is a blessing:
**
**    May you do good and not evil.
**    May you find forgiveness for yourself and forgive others.
**    May you share freely, never taking more than you give.
**
***************************************************************************
**
** This is a utility for converting binary to base85 or vice-versa.
** It can be built as a standalone
 program or an SQLite3 extension.
**
** Much like base64 representations, base85 can be sent through a
** sane USASCII channel unmolested. It also plays nicely in CSV or
** written as TCL brace-enclosed literals or SQL string literals.
** It is not suited for unmodified use in XML-like documents.
**
** The encoding used resembles Ascii85, but was devised by the author
** (Larry Brasfield) before Mozilla, Adobe, ZMODEM or other Ascii85
** variant sources existed, in the 1984 timeframe on a VAX mainframe.
** Further, this is an independent implementation of a base85 system.
** Hence, the author has rightfully put this into the public domain.
**
** Base85 numerals are taken from the set of 7-bit USASCII codes,
** excluding control characters and Space ! " ' ( ) { | } ~ Del
** in code order representing digit values 0 to 84 (base 10.)
**
** Groups of 4 bytes, interpreted as big-endian 32-bit values,
** are represented as 5-digit base85 numbers with MS to LS digit
** order. Groups
 of 1-3 bytes are represented with 2-4 digits,
** still big-endian but 8-24 bit values. (Using big-endian yields
** the simplest transition to byte groups smaller than 4 bytes.
** These byte groups can also be considered base-256 numbers.)
** Groups of 0 bytes are represented with 0 digits and vice-versa.
** No pad characters are used; Encoded base85 numeral sequence
```

```
** (aka "group") length maps 1-to-1 to the decoded binary length.
**
** Any character not in the base85 numeral set delimits groups.
** When base85 is streamed or stored in containers of indefinite
** size, newline is used to separate it into sub-sequences of no
** more than 80 digits so that fgets() can be used to read it.
**
** Length limitations are not imposed except that the runtime
** SQLite string or blob length limits are respected. Otherwise,
** any length binary sequence can be represented and recovered.
** Base85 sequences can be concatenated by separating them with
** a non-base85 character; the conversion to binary
 will then
** be the concatenation of the represented binary sequences.

** The standalone program either converts base85 on stdin to create
** a binary file or converts a binary file to base85 on stdout.
** Read or make it blurt its help for invocation details.
**
** The SQLite3 extension creates a function, base85(x), which will
** either convert text base85 to a blob or a blob to text base85
** and return the result (or throw an error for other types.)
** Unless built with OMIT_BASE85_CHECKER defined, it also creates a
** function, is_base85(t), which returns 1 iff the text t contains
** nothing other than base85 numerals and whitespace, or 0 otherwise.
**
** To build the extension:
** Set shell variable SQDIR=<your favorite SQLite checkout directory>
** and variable OPTS to -DOMIT_BASE85_CHECKER if is_base85() unwanted.
** *Nix: gcc -O2 -shared -I$SQDIR $OPTS -fPIC -o base85.so base85.c
** OSX: gcc -O2 -dynamiclib -fPIC -I$SQDIR $OPTS -o base85.dylib base85.c
** Win32: gcc -O2
 -shared -I%SQDIR% %OPTS% -o base85.dll base85.c
** Win32: cl /Os -I%SQDIR% %OPTS% base85.c -link -dll -out:base85.dll
**
** To build the standalone program, define PP symbol BASE85_STANDALONE. Eg.
** *Nix or OSX: gcc -O2 -DBASE85_STANDALONE base85.c -o base85
** Win32: gcc -O2 -DBASE85_STANDALONE -o base85.exe base85.c
** Win32: cl /Os /MD -DBASE85_STANDALONE base85.c
*/
/* This will be more informative in a later version. */
```

Found in path(s):
* /opt/cola/permits/2037856323_1717430377.9808547/0/sqlite-amalgamation-3450200-zip/sqlite-amalgamation-3450200/shell.c

1.2820 monkey-http-daemon 1.7.2

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Protocol Buffers for Go with Gadgets

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** github.com/prometheus/common/internal/bitbucket.org/ww/goautoneg;
 version v0.44.0 - https://github.com/prometheus/common/internal/bitbucket.org/ww/goautoneg

PACKAGE

package goautoneg
import "bitbucket.org/ww/goautoneg"

HTTP Content-Type Autonegotiation.

The functions in this package implement the behaviour specified in
http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html

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FUNCTIONS

func Negotiate(header string, alternatives []string) (content_type string)
Negotiate the most appropriate
 content_type given the accept header
and a list of alternatives.

func ParseAccept(header string) (accept []Accept)
Parse an Accept Header string returning a sorted list
of clauses

TYPES

```
type Accept struct {
   Type, SubType string
   Q            float32
   Params       map[string]string
}
```
Structure to represent a clause in an HTTP Accept Header

SUBDIRECTORIES

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** github.com/rs/xid; version v1.5.0 - https://github.com/rs/xid

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** github.com/spf13/pflag; version v1.0.5 - https://github.com/spf13/pflag

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1.2827 github.com/masterminds/semver 1.5.0

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1.2828 golang 1.22.4

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1.2829 python-requests 2.32.3

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1.2830 x-sys 0.21.0

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1.2831 expr-lang-expr 1.16.9

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1.2832 jersey-metainf-services 2.41

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 Name string `json:"name,omitempty"`
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Protocol Buffers for Go with Gadgets

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1.2841 procfs 0.15.1

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.2842 prometheus-common 0.54.0

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1.2843 viper 1.19.0

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1.2844 go-restful 3.12.1

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1.2845 logr 1.4.2

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// +build go1.18

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package armhybridcompute_test

import (
 "context"
 "log"

 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/azidentity"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
)

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/f4c6c8697c59f966db0d1e36b62df3af3bca9065/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-03-31-preview/examples/license/License_CreateOrUpdate.json
func ExampleLicensesClient_BeginCreateOrUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil
 {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginCreateOrUpdate(ctx, "myResourceGroup", "{licenseName}",
armhybridcompute.License{
  Location: to.Ptr("eastus2euap"),
  Properties: &armhybridcompute.LicenseProperties{
   LicenseDetails: &armhybridcompute.LicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
```

```
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx,
 nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](2),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID:
 to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/f4c6c8697c59f966db0d1e36b62df3af3bca9065/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-03-31-preview/examples/license/License_Update.json
func ExampleLicensesClient_BeginUpdate() {
```

```
cred, err := azidentity.NewDefaultAzureCredential(nil)
if err != nil {
 log.Fatalf("failed to obtain a credential: %v", err)
}
ctx := context.Background()
clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
if err != nil {
 log.Fatalf("failed to create client: %v", err)
}
poller, err := clientFactory.NewLicensesClient().BeginUpdate(ctx,
"myResourceGroup", "{licenseName}", armhybridcompute.LicenseUpdate{
 Properties: &armhybridcompute.LicenseUpdateProperties{
  LicenseDetails: &armhybridcompute.LicenseUpdatePropertiesLicenseDetails{
   Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
   Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
   Processors: to.Ptr[int32](6),
   State:      to.Ptr(armhybridcompute.LicenseStateActivated),
   Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
  },
  LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 },
}, nil)
if err != nil {
 log.Fatalf("failed to finish the request: %v", err)
}
res, err := poller.PollUntilDone(ctx, nil)
if err != nil {
 log.Fatalf("failed to pull the result: %v", err)
}
// You could use response here. We use blank identifier for just demo purposes.
_ = res
// If the HTTP response code is 200 as defined in example definition, your response structure would look as follows. Please
pay attention that all the values in the output are fake values for just demo purposes.
// res.License = armhybridcompute.License{
//  Name: to.Ptr("{licenseName}"),
//  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
//  ID: to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/licenses/{licenseName}"),
//  Location: to.Ptr("eastus2euap"),
//  Properties: &armhybridcompute.LicenseProperties{
//   LicenseDetails: &armhybridcompute.LicenseDetails{
//    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
//    AssignedLicenses: to.Ptr[int32](8),
//    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//    ImmutableID: to.Ptr("<generated Guid>"),
//    Processors: to.Ptr[int32](6),
```

```
//    State: to.Ptr(armhybridcompute.LicenseStateActivated),
//    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//   },
//   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
//   TenantID: to.Ptr("{tenandId}"),
//
  },
// }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/f4c6c8697c59f966db0d1e36b62df3af3bca9065/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-03-31-preview/examples/license/License_Get.json
func ExampleLicensesClient_Get() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 res, err := clientFactory.NewLicensesClient().Get(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would
 look as follows. Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
```

```
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //
   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/f4c6c8697c59f966db0d1e36b62df3af3bca9065/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-03-31-preview/examples/license/License_Delete.json
func ExampleLicensesClient_BeginDelete() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginDelete(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 _, err = poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
}

// Generated from example
 definition: https://github.com/Azure/azure-rest-api-
specs/blob/f4c6c8697c59f966db0d1e36b62df3af3bca9065/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-03-31-
preview/examples/license/License_ListByResourceGroup.json
func ExampleLicensesClient_NewListByResourceGroupPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListByResourceGroupPager("myResourceGroup", nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
```

```
 if err != nil {
  log.Fatalf("failed to advance page: %v", err)
 }
 for _, v := range page.Value {
  // You could use page here. We use blank identifier for just demo purposes.
  _ = v
 }
 // If the HTTP response
 code is 200 as defined in example definition, your page structure would look as follows. Please pay attention that all
the values in the output are fake values for just demo purposes.
 // page.LicensesListResult = armhybridcompute.LicensesListResult{
 //  Value: []*armhybridcompute.License{
 //   {
 //    Name: to.Ptr("{licenseName}"),
 //    Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //    Location: to.Ptr("eastus2euap"),
 //    Properties: &armhybridcompute.LicenseProperties{
 //     LicenseDetails: &armhybridcompute.LicenseDetails{
 //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //      AssignedLicenses: to.Ptr[int32](8),
 //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //      ImmutableID: to.Ptr("<generated Guid>"),
 //      Processors: to.Ptr[int32](6),
 //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //
     Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //     },
 //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //     TenantID: to.Ptr("{tenandId}"),
 //    },
 //  }},
 // }
 }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/f4c6c8697c59f966db0d1e36b62df3af3bca9065/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-03-31-
preview/examples/license/License_ListBySubscription.json
func ExampleLicensesClient_NewListBySubscriptionPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
```

```
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListBySubscriptionPager(nil)
 for pager.More()
 {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
   // You could use page here. We use blank identifier for just demo purposes.
   _ = v
  }
  // If the HTTP response code is 200 as defined in example definition, your page structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
  // page.LicensesListResult = armhybridcompute.LicensesListResult{
  //  Value: []*armhybridcompute.License{
  //   {
  //    Name: to.Ptr("{licenseName}"),
  //    Type: to.Ptr("Microsoft.HybridCompute/licenses"),
  //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
  //    Location: to.Ptr("eastus2euap"),
  //    Properties: &armhybridcompute.LicenseProperties{
  //     LicenseDetails: &armhybridcompute.LicenseDetails{
  //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
  //
     AssignedLicenses: to.Ptr[int32](8),
  //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
  //      ImmutableID: to.Ptr("<generated Guid>"),
  //      Processors: to.Ptr[int32](6),
  //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
  //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
  //     },
  //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  //     TenantID: to.Ptr("{tenandId}"),
  //    },
  //  }},
  // }
 }
}
aztemplate
```

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```
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SOFTWARE.
//go:build go1.18
// +build go1.18

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// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package fake

import (
 "context"
 "errors"
 "fmt"
 azfake "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake/server"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
 "net/http"
 "net/url"
 "regexp"
)

// LicensesServer is a fake server for instances of the armhybridcompute.LicensesClient type.
type LicensesServer struct {
 // BeginCreateOrUpdate is the fake for method LicensesClient.BeginCreateOrUpdate
 // HTTP status codes to indicate success:
 http.StatusOK
 BeginCreateOrUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
armhybridcompute.License, options *armhybridcompute.LicensesClientBeginCreateOrUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse], errResp
azfake.ErrorResponder)

 // BeginDelete is the fake for method LicensesClient.BeginDelete
 // HTTP status codes to indicate success: http.StatusOK, http.StatusNoContent
 BeginDelete func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientBeginDeleteOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse], errResp azfake.ErrorResponder)

 // Get is the fake for method LicensesClient.Get
 // HTTP status codes to indicate success: http.StatusOK
 Get func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientGetOptions) (resp
azfake.Responder[armhybridcompute.LicensesClientGetResponse],
```

```
 errResp azfake.ErrorResponder)

 // NewListByResourceGroupPager is the fake for method LicensesClient.NewListByResourceGroupPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListByResourceGroupPager func(resourceGroupName string, options
*armhybridcompute.LicensesClientListByResourceGroupOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse])

 // NewListBySubscriptionPager is the fake for method LicensesClient.NewListBySubscriptionPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListBySubscriptionPager func(options *armhybridcompute.LicensesClientListBySubscriptionOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse])

 // BeginUpdate is the fake for method LicensesClient.BeginUpdate
 // HTTP status codes to indicate success: http.StatusOK
 BeginUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
 armhybridcompute.LicenseUpdate, options *armhybridcompute.LicensesClientBeginUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse], errResp azfake.ErrorResponder)
}

// NewLicensesServerTransport creates a new instance of LicensesServerTransport with the provided
implementation.
// The returned LicensesServerTransport instance is connected to an instance of armhybridcompute.LicensesClient
via the
// azcore.ClientOptions.Transporter field in the client's constructor parameters.
func NewLicensesServerTransport(srv *LicensesServer) *LicensesServerTransport {
 return &LicensesServerTransport{
  srv:                    srv,
  beginCreateOrUpdate:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]](),
  beginDelete:            newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]](),
  newListByResourceGroupPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]](),
  newListBySubscriptionPager:
  newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]](),
  beginUpdate:            newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]](),
 }
}

// LicensesServerTransport connects instances of armhybridcompute.LicensesClient to instances of LicensesServer.
// Don't use this type directly, use NewLicensesServerTransport instead.
type LicensesServerTransport struct {
 srv                    *LicensesServer
 beginCreateOrUpdate
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]]
 beginDelete            *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]]
 newListByResourceGroupPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]]
```

```
 newListBySubscriptionPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]]
 beginUpdate
                *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]]
}

// Do implements the policy.Transporter interface for LicensesServerTransport.
func (l *LicensesServerTransport) Do(req *http.Request) (*http.Response, error) {
 rawMethod := req.Context().Value(runtime.CtxAPINameKey{})
 method, ok := rawMethod.(string)
 if !ok {
  return nil, nonRetriableError{errors.New("unable to dispatch request, missing value for CtxAPINameKey")}
 }

 var resp *http.Response
 var err error

 switch method {
 case "LicensesClient.BeginCreateOrUpdate":
  resp, err = l.dispatchBeginCreateOrUpdate(req)
 case "LicensesClient.BeginDelete":
  resp, err = l.dispatchBeginDelete(req)
 case "LicensesClient.Get":
  resp, err = l.dispatchGet(req)
 case "LicensesClient.NewListByResourceGroupPager":
  resp, err = l.dispatchNewListByResourceGroupPager(req)
 case "LicensesClient.NewListBySubscriptionPager":
  resp, err = l.dispatchNewListBySubscriptionPager(req)
 case
 "LicensesClient.BeginUpdate":
  resp, err = l.dispatchBeginUpdate(req)
 default:
  err = fmt.Errorf("unhandled API %s", method)
 }

 if err != nil {
  return nil, err
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginCreateOrUpdate(req *http.Request) (*http.Response, error) {
 if l.srv.BeginCreateOrUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginCreateOrUpdate not implemented")}
 }
 beginCreateOrUpdate := l.beginCreateOrUpdate.get(req)
 if beginCreateOrUpdate == nil {
```

```
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body,
 err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginCreateOrUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body,
nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginCreateOrUpdate = &respr
  l.beginCreateOrUpdate.add(req, beginCreateOrUpdate)
 }

 resp, err := server.PollerResponderNext(beginCreateOrUpdate, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginCreateOrUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if
 !server.PollerResponderMore(beginCreateOrUpdate) {
  l.beginCreateOrUpdate.remove(req)
 }

 return resp, nil
}
```

```
func (l *LicensesServerTransport) dispatchBeginDelete(req *http.Request) (*http.Response, error) {
 if l.srv.BeginDelete == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginDelete not implemented")}
 }
 beginDelete := l.beginDelete.get(req)
 if beginDelete == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return
 nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginDelete(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginDelete = &respr
  l.beginDelete.add(req, beginDelete)
 }

 resp, err := server.PollerResponderNext(beginDelete, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK, http.StatusNoContent}, resp.StatusCode) {
  l.beginDelete.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK,
http.StatusNoContent", resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginDelete) {
  l.beginDelete.remove(req)
 }

 return resp, nil
}
```

```
func (l *LicensesServerTransport) dispatchGet(req *http.Request) (*http.Response, error) {
 if l.srv.Get == nil {
  return nil, &nonRetriableError{errors.New("fake
 for method Get not implemented")}
 }
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
 regex := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 3 {
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
  return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.Get(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 respContent := server.GetResponseContent(respr)
 if
 !contains([]int{http.StatusOK}, respContent.HTTPStatus) {
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
respContent.HTTPStatus)}
 }
 resp, err := server.MarshalResponseAsJSON(respContent, server.GetResponse(respr).License, req)
 if err != nil {
  return nil, err
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListByResourceGroupPager(req *http.Request) (*http.Response,
error) {
 if l.srv.NewListByResourceGroupPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListByResourceGroupPager not implemented")}
 }
 newListByResourceGroupPager := l.newListByResourceGroupPager.get(req)
 if newListByResourceGroupPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
```

```
 regex := regexp.MustCompile(regexStr)
 matches :=
regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 2 {
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
  return nil, err
 }
 resp := l.srv.NewListByResourceGroupPager(resourceGroupNameParam, nil)
 newListByResourceGroupPager = &resp
 l.newListByResourceGroupPager.add(req, newListByResourceGroupPager)
 server.PagerResponderInjectNextLinks(newListByResourceGroupPager, req, func(page
*armhybridcompute.LicensesClientListByResourceGroupResponse, createLink func() string) {
  page.NextLink = to.Ptr(createLink())
 })
}
resp, err := server.PagerResponderNext(newListByResourceGroupPager, req)
if err != nil {
 return nil, err
}
if !contains([]int{http.StatusOK}, resp.StatusCode) {
 l.newListByResourceGroupPager.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values
are http.StatusOK", resp.StatusCode)}
}
if !server.PagerResponderMore(newListByResourceGroupPager) {
 l.newListByResourceGroupPager.remove(req)
}
return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListBySubscriptionPager(req *http.Request) (*http.Response, error)
{
if l.srv.NewListBySubscriptionPager == nil {
 return nil, &nonRetriableError{errors.New("fake for method NewListBySubscriptionPager not implemented")}
}
newListBySubscriptionPager := l.newListBySubscriptionPager.get(req)
if newListBySubscriptionPager == nil {
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
 regex := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 1 {
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resp := l.srv.NewListBySubscriptionPager(nil)
```

```
 newListBySubscriptionPager = &resp
 l.newListBySubscriptionPager.add(req,
newListBySubscriptionPager)
 server.PagerResponderInjectNextLinks(newListBySubscriptionPager, req, func(page
*armhybridcompute.LicensesClientListBySubscriptionResponse, createLink func() string) {
  page.NextLink = to.Ptr(createLink())
 })
}
resp, err := server.PagerResponderNext(newListBySubscriptionPager, req)
if err != nil {
 return nil, err
}
if !contains([]int{http.StatusOK}, resp.StatusCode) {
 l.newListBySubscriptionPager.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}
if !server.PagerResponderMore(newListBySubscriptionPager) {
 l.newListBySubscriptionPager.remove(req)
}
return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginUpdate(req *http.Request) (*http.Response, error) {
if l.srv.BeginUpdate == nil {
 return nil, &nonRetriableError{errors.New("fake for method BeginUpdate not implemented")}
}
beginUpdate := l.beginUpdate.get(req)
if
beginUpdate == nil {
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
 regex := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 3 {
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 body, err := server.UnmarshalRequestAsJSON[armhybridcompute.LicenseUpdate](req)
 if err != nil {
  return nil, err
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
  return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
```

```
  return nil, err
 }
 respr, errRespr := l.srv.BeginUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body, nil)
 if respErr := server.GetError(errRespr,
req); respErr != nil {
  return nil, respErr
 }
 beginUpdate = &respr
 l.beginUpdate.add(req, beginUpdate)
}

resp, err := server.PollerResponderNext(beginUpdate, req)
if err != nil {
 return nil, err
}

if !contains([]int{http.StatusOK}, resp.StatusCode) {
 l.beginUpdate.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}
if !server.PollerResponderMore(beginUpdate) {
 l.beginUpdate.remove(req)
}

return resp, nil
}
//go:build go1.18
// +build go1.18

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// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package armhybridcompute

import (
 "context"
 "errors"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/arm"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/policy"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "net/http"
 "net/url"
 "strings"
)
```

```
// LicensesClient contains the methods for the Licenses group.
// Don't use this type directly, use NewLicensesClient() instead.
type LicensesClient struct {
 internal       *arm.Client
 subscriptionID string
}

// NewLicensesClient creates a new instance of LicensesClient with the specified values.
//   - subscriptionID - The ID of the target
 subscription.
//   - credential - used to authorize requests. Usually a credential from azidentity.
//   - options - pass nil to accept the default values.
func NewLicensesClient(subscriptionID string, credential azcore.TokenCredential, options *arm.ClientOptions)
(*LicensesClient, error) {
 cl, err := arm.NewClient(moduleName, moduleVersion, credential, options)
 if err != nil {
  return nil, err
 }
 client := &LicensesClient{
  subscriptionID: subscriptionID,
  internal:       cl,
 }
 return client, nil
}

// BeginCreateOrUpdate - The operation to create or update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-03-31-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - parameters - Parameters supplied to the Create license operation.
//   - options - LicensesClientBeginCreateOrUpdateOptions contains the optional parameters
 for the LicensesClient.BeginCreateOrUpdate
//     method.
func (client *LicensesClient) BeginCreateOrUpdate(ctx context.Context, resourceGroupName string, licenseName
string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions)
(*runtime.Poller[LicensesClientCreateOrUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.createOrUpdate(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
```

```
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// CreateOrUpdate - The operation to create or update a license.
// If the
 operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-03-31-preview
func (client *LicensesClient) createOrUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginCreateOrUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.createOrUpdateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// createOrUpdateCreateRequest creates
 the CreateOrUpdate request.
func (client *LicensesClient) createOrUpdateCreateRequest(ctx context.Context, resourceGroupName string,
licenseName string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*policy.Request,
error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
```

```
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx,
 http.MethodPut, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-03-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginDelete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-03-31-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientBeginDeleteOptions contains the optional parameters for the
LicensesClient.BeginDelete method.
func (client *LicensesClient) BeginDelete(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*runtime.Poller[LicensesClientDeleteResponse],
 error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.deleteOperation(ctx, resourceGroupName, licenseName, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
```

```
 })
 }
}

// Delete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-03-31-preview
func (client *LicensesClient) deleteOperation(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*http.Response, error) {
 var err error
 const
 operationName = "LicensesClient.BeginDelete"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.deleteCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK, http.StatusNoContent) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// deleteCreateRequest creates the Delete request.
func (client *LicensesClient) deleteCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientBeginDeleteOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
```

```
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodDelete, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-03-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// Get - Retrieves information about the view of a license.
//
 If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-03-31-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientGetOptions contains the optional parameters for the LicensesClient.Get method.
func (client *LicensesClient) Get(ctx context.Context, resourceGroupName string, licenseName string, options
*LicensesClientGetOptions) (LicensesClientGetResponse, error) {
 var err error
 const operationName = "LicensesClient.Get"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.getCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return LicensesClientGetResponse{}, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil
 {
  return LicensesClientGetResponse{}, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return LicensesClientGetResponse{}, err
 }
 resp, err := client.getHandleResponse(httpResp)
 return resp, err
}

// getCreateRequest creates the Get request.
func (client *LicensesClient) getCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientGetOptions) (*policy.Request, error) {
```

```
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
 licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-03-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// getHandleResponse handles the Get response.
func (client *LicensesClient) getHandleResponse(resp *http.Response) (LicensesClientGetResponse, error) {
 result := LicensesClientGetResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.License); err != nil {
  return LicensesClientGetResponse{}, err
 }
 return result, nil
}

// NewListByResourceGroupPager - The operation to get all licenses of a non-Azure machine
//
// Generated from
 API version 2024-03-31-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - options - LicensesClientListByResourceGroupOptions contains the optional parameters for the
LicensesClient.NewListByResourceGroupPager
//     method.
func (client *LicensesClient) NewListByResourceGroupPager(resourceGroupName string, options
*LicensesClientListByResourceGroupOptions) *runtime.Pager[LicensesClientListByResourceGroupResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListByResourceGroupResponse]{
  More: func(page LicensesClientListByResourceGroupResponse) bool {
```

```
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListByResourceGroupResponse)
(LicensesClientListByResourceGroupResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListByResourceGroupPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp,
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listByResourceGroupCreateRequest(ctx, resourceGroupName, options)
   }, nil)
   if err != nil {
    return LicensesClientListByResourceGroupResponse{}, err
   }
   return client.listByResourceGroupHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listByResourceGroupCreateRequest creates the ListByResourceGroup request.
func (client *LicensesClient) listByResourceGroupCreateRequest(ctx context.Context, resourceGroupName string,
options *LicensesClientListByResourceGroupOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es"
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-03-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}
```

```
// listByResourceGroupHandleResponse handles the ListByResourceGroup response.
func (client *LicensesClient) listByResourceGroupHandleResponse(resp *http.Response)
(LicensesClientListByResourceGroupResponse, error) {
 result := LicensesClientListByResourceGroupResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListByResourceGroupResponse{}, err
 }
 return
 result, nil
}

// NewListBySubscriptionPager - The operation to get all licenses of a non-Azure machine
//
// Generated from API version 2024-03-31-preview
//   - options - LicensesClientListBySubscriptionOptions contains the optional parameters for the
LicensesClient.NewListBySubscriptionPager
//     method.
func (client *LicensesClient) NewListBySubscriptionPager(options *LicensesClientListBySubscriptionOptions)
*runtime.Pager[LicensesClientListBySubscriptionResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListBySubscriptionResponse]{
  More: func(page LicensesClientListBySubscriptionResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListBySubscriptionResponse)
(LicensesClientListBySubscriptionResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListBySubscriptionPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp,
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listBySubscriptionCreateRequest(ctx, options)
   }, nil)
   if err != nil {
    return LicensesClientListBySubscriptionResponse{}, err
   }
   return client.listBySubscriptionHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listBySubscriptionCreateRequest creates the ListBySubscription request.
func (client *LicensesClient) listBySubscriptionCreateRequest(ctx context.Context, options
*LicensesClientListBySubscriptionOptions) (*policy.Request, error) {
```

```
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/licenses"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet,
 runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-03-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listBySubscriptionHandleResponse handles the ListBySubscription response.
func (client *LicensesClient) listBySubscriptionHandleResponse(resp *http.Response)
(LicensesClientListBySubscriptionResponse, error) {
 result := LicensesClientListBySubscriptionResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListBySubscriptionResponse{}, err
 }
 return result, nil
}

// BeginUpdate - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-03-31-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName
 - The name of the license.
//   - parameters - Parameters supplied to the Update license operation.
//   - options - LicensesClientBeginUpdateOptions contains the optional parameters for the
LicensesClient.BeginUpdate method.
func (client *LicensesClient) BeginUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions)
(*runtime.Poller[LicensesClientUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.update(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientUpdateResponse]{
   Tracer: client.internal.Tracer(),
```

```
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientUpdateResponse]{
   Tracer:
 client.internal.Tracer(),
  })
 }
}

// Update - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-03-31-preview
func (client *LicensesClient) update(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.updateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return
 nil, err
 }
 return httpResp, nil
}

// updateCreateRequest creates the Update request.
func (client *LicensesClient) updateCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
```

```
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}",
 url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodPatch, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-03-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}
```

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1.2847 more-itertools 10.3.0

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1.2848 jsonpointer 3.0.0

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1.2849 python3-idna 3.3-1ubuntu0.1

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1.2850 go.opentelemetry.io/otel/exporters/otlp/otlptrace/otlptracegrpc 1.27.0

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1.2851 github.com/dennwc/btrfs 0.0.0-20240418142341-0167142bde7a

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If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
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```

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1.2854 libdbus 1.12.20-2ubuntu4.1

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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysstatfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysstatfs:

```
?S: This variable conditionally defines the I_SYSSTATFS symbol,
?S: and indicates whether a C program should include <sys/statfs.h>.
?S:.
?C:I_SYS_STATFS:
?C: This symbol, if defined, indicates that <sys/statfs.h> exists.
?C:.
?H:#$i_sysstatfs I_SYS_STATFS  /**/
?H:.
?LINT:set i_sysstatfs
: see if this is a sys/statfs.h system
set sys/statfs.h i_sysstatfs
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysstatfs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_usleep.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_usleep.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:53  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_usleep: Inlibc
?MAKE: -pick add $@ %<
?S:d_usleep:
?S: This variable conditionally defines HAS_USLEEP if usleep() is
?S: available to do high granularity sleeps.
?S:.
?C:HAS_USLEEP (USLEEP):
?C: This symbol, if defined, indicates that the usleep routine is
?C: available to let the process sleep on a sub-second accuracy.
?C:.
?H:#$d_usleep
 HAS_USLEEP  /**/
?H:.
?LINT:set d_usleep
: see if usleep exists
set usleep d_usleep
```

```
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_usleep.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strtod.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strtod.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:46:36  ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_strtod: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtod:
?S: This variable conditionally defines the HAS_STRTOD symbol, which
?S: indicates to the C program that the strtod() routine is available
?S: to provide better numeric string conversion than atof().
?S:.
?C:HAS_STRTOD (STRTOD):
?C: This symbol, if defined,
 indicates that the strtod routine is
?C: available to provide better numeric string conversion than atof().
?C:.
?H:#$d_strtod HAS_STRTOD /**/
?H:.
?LINT:set d_strtod
: see if strtod exists
set strtod d_strtod
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strtod.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: mailer.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: mailer.U,v $
?RCS: Revision 3.0.1.3  1995/01/11  15:32:11  ram
?RCS: patch45: can now use Loc variables since path stripping is deferred
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:10:04  ram
?RCS: patch23: ensure full path value is used for rmail also
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:14:18  ram
?RCS: patch16: now use _sendmail vars and friends for portability issues
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:10  ram
?RCS: Baseline for dist
 3.0 netwide release.
?RCS:
?MAKE:mailer: test cat rmail mail smail sendmail Getfile Oldconfig
?MAKE: -pick add $@ %<
?S:mailer:
?S: This variable contains the full pathname of a reasonable mailer.
?S: By reasonable, we mean some program which can understand internet
?S: addresses or at least forward them to some internet router. This
?S: mailer should be invoked as "mailer [options] recipients <mail".
?S:.
: determine the name of a reasonable mailer
case "$mailer" in
")
 if $test -f "$sendmail"; then
  dflt="$sendmail"
 elif $test -f "$smail"; then
  dflt="$smail"
 elif $test -f "$rmail"; then
  dflt="$rmail"
 elif $test -f /bin/mail; then
  dflt=/bin/mail
 else
  dflt=$mail
 fi
 ;;
*)  dflt="$mailer";;
esac
```

```
$cat <<EOM

I need the full pathname of the program used to deliver mail on your system.
A typical answer would be /usr/lib/sendmail or /bin/rmail, but you may choose
any other program, as long as it can be fed from standard input and will
honour any user-supplied headers.

EOM
fn=f
rp='Mail
 transport agent to be used?'
. ./getfile
mailer="$ans"
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/mailer.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_gethname.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:13:00  ram
?RCS: patch36: call ./xenix explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:11  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_gethname d_uname d_phostname aphostname: phostname cat \
 myhostname package d_portable Loc echo n c +i_whoami +usrinc \
 Myread Guess Oldconfig Csym
?MAKE: -pick add $@ %<
?S:d_gethname:
?S: This variable conditionally defines the HAS_GETHOSTNAME symbol,
 which
?S: indicates to the C program that the gethostname() routine may be
?S: used to derive the host name.
?S:.
?S:d_uname:
?S: This variable conditionally defines the HAS_UNAME symbol, which
```

```
?S: indicates to the C program that the uname() routine may be
?S: used to derive the host name.
?S:.
?S:d_phostname:
?S: This variable conditionally defines the PHOSTNAME symbol, which
?S: contains the shell command which, when fed to popen(), may be
?S: used to derive the host name.
?S:.
?S:aphostname:
?S: Thie variable contains the command which can be used to compute the
?S: host name. The command is fully qualified by its absolute path, to make
?S: it safe when used by a process with super-user privileges.
?S:.
?C:HAS_GETHOSTNAME (GETHOSTNAME):
?C: This symbol, if defined, indicates that the C program may use the
?C: gethostname() routine to derive the host name.  See also HAS_UNAME
?C: and PHOSTNAME.
?C:.
?C:HAS_UNAME (UNAME):
?C: This symbol, if defined, indicates that the C program may
 use the
?C: uname() routine to derive the host name.  See also HAS_GETHOSTNAME
?C: and PHOSTNAME.
?C:.
?C:PHOSTNAME:
?C: This symbol, if defined, indicates that the C program may use the
?C: contents of PHOSTNAME as a command to feed to the popen() routine
?C: to derive the host name.  See also HAS_GETHOSTNAME and HAS_UNAME.
?C: Note that the command uses a fully qualified path, so that it is safe
?C: even if used by a process with super-user privileges.
?C:.
?H:#$d_gethname HAS_GETHOSTNAME /**/
?H:#$d_uname HAS_UNAME  /**/
?H:#$d_phostname PHOSTNAME "$aphostname" /* How to get the host name */
?H:.
?T:file val call
?LINT:change i_whoami
: see how we will look up host name
echo " "
if false; then
 : dummy stub to allow use of elif
@if HAS_GETHOSTNAME
elif set gethostname val -f d_gethname; eval $csym; $val; then
 echo 'gethostname() found.' >&4
 d_gethname="$define"
 call=gethostname
@end
@if HAS_UNAME
```

```
elif set uname val -f d_uname; eval $csym; $val; then
 if ./xenix; then
  $cat <<'EOM'
uname()
 was found, but you're running xenix, and older versions of xenix
have a broken uname(). If you don't really know whether your xenix is old
enough to have a broken system call, use the default answer.

EOM
  dflt=y
  case "$d_uname" in
  "$define") dflt=n;;
  esac
  rp='Is your uname() broken?'
  . ./myread
  case "$ans" in
  n*) d_uname="$define"; call=uname;;
  esac
 else
  echo 'uname() found.' >&4
  d_uname="$define"
  call=uname
 fi
@end
fi
case "$d_gethname" in
") d_gethname="$undef";;
esac
case "$d_uname" in
") d_uname="$undef";;
esac
@if PHOSTNAME || MYHOSTNAME
case "$d_uname$d_gethname" in
*define*)
 dflt=n
 cat <<EOM

Every now and then someone has a $call() that lies about the hostname
but can't be fixed for political or economic reasons.  If you wish, I can
@if MYHOSTNAME && PHOSTNAME
pretend $call() isn't there and maybe compile in the hostname or
compute it from the '$phostname' command at run-time.
@elsif MYHOSTNAME
pretend $call() isn't there and maybe compile
 in the hostname.
@elsif PHOSTNAME
pretend $call() isn't there and maybe compute hostname at run-time
thanks to the '$phostname' command.
```

```
@elsif WHOAMI
get the hostname from whomai.h (provided you have one).
@else
simply ignore your host name and use someting like "noname" instead.
@end

EOM
 rp="Shall I ignore $call() from now on?"
 . ./myread
 case "$ans" in
 y*) d_uname="$undef" d_gethname="$undef"; $echo $n "Okay...$c";;
 esac;;
esac
@end
@if PHOSTNAME || aphostname
?X: Compute the full path name for the command
case "$phostname" in
") aphostname=";;
*) case "$aphostname" in
 /*) ;;
 *) set X $phostname
  shift
  file=$1
  shift
  file=`./loc $file $file $pth`
  aphostname=`echo $file $*`
  ;;
 esac
 ;;
esac
@end
@if PHOSTNAME && MYHOSTNAME
case "$d_uname$d_gethname" in
*define*) ;;
*)
 case "$phostname" in
 ") ;;
 *)
  $cat <<EOT

There is no gethostname() or uname() on this system.  You have two
possibilities at this point:

1)  You can have your host name ($myhostname) compiled
 into $package, which
   lets $package start up faster, but makes your binaries non-portable, or
2)  you can have $package use a
```

```
 popen("$aphostname","r")

   which will start slower but be more portable.

@ if WHOAMI
Option 1 will give you the option of using whoami.h if you have one.
@ end
If you want option 2 but with a different command, you can edit config.sh at
the end of this shell script.

EOT
  case "$d_phostname" in
  "$define") dflt=n;;
  "$undef")  dflt=y;;
  ")
   case "$d_portable" in
   "$define") dflt=n ;;
   *) dflt=y ;;
   esac;;
  esac
  rp="Do you want your host name compiled in?"
  . ./myread
  case "$ans" in
  n*) d_phostname="$define" ;;
  *) aphostname=''; d_phostname="$undef";;
  esac;;
 esac
 case "$aphostname" in
 ")
@ if WHOAMI
  case "$i_whoami" in
  "$define")
   dflt=y
   $cat <<EOM

No hostname function--you can either use the whoami.h file, which has this line:

 `grep sysname $usrinc/whoami.h`

or you can have the name we came up with earlier
 ($myhostname) hardwired in.
EOM
   rp="Use whoami.h to get hostname?"
   . ./myread
   case "$ans" in
   n*) i_whoami="$undef";;
   esac
   ;;
```

```
  "$undef")
   $cat <<EOM
No hostname function and no whoami.h -- hardwiring "$myhostname".
EOM
   ;;
  esac;;
@ else
  echo 'No hostname function -- hardwiring "'$myhostname'".' >&4;;
@ end
 esac;;
esac
@elsif PHOSTNAME
case "$d_uname$d_gethname" in
*define*) ;;
*)
 case "$phostname" in
 ")
@ if WHOAMI
  case "$i_whoami" in
  "$define")
   $cat <<EOM

No hostname function--we'll use the whoami.h file, which has this line:

 `grep sysname $usrinc/whoami.h`

EOM
   ;;
  *) echo "There will be no way for $package to get your hostname." >&4;;
  esac;;
@ else
  echo "There will be no way for $package to get your hostname." >&4;;
@ end
 *)
 echo "I'll use 'popen("""$aphostname"", "r")"" to get your hostname." >&4
  ;;
 esac;;
esac
@elsif MYHOSTNAME
case "$d_uname$d_gethname" in
*define*) ;;
*)
@ if WHOAMI
 case "$i_whoami" in
 "$define")
  dflt=y
  $cat
```

```
 <<EOM

No hostname function--you can either use the whoami.h file, which has this line:

 `grep sysname $usrinc/whoami.h`

or you can have the name we came up with earlier ($myhostname) hardwired in.
EOM
  rp="Use whoami.h to get hostname?"
  . ./myread
  case "$ans" in
  n*) i_whoami="$undef";;
  esac
  ;;
 "$undef")
  echo 'No whoami.h--hardwiring "'$myhostname'".' >&4;;
 esac;;
@ else
 echo 'Hardwiring "'$myhostname'".' >&4;;
@ end
esac
@end
case "$d_phostname" in
") d_phostname="$undef";;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_gethname.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getwd.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getwd.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:18  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getwd: Csym Setvar
?MAKE: -pick add $@ %<
?S:d_getwd:
```

```
?S: This variable conditionally defines HAS_GETWD if getwd() is
?S: available to get working directory. If not, you should
?S: probably use getcwd().
?S:.
?C:HAS_GETWD (GETWD):
?C: This symbol, if defined, indicates that the getwd routine is
?C: available to get working directory.
 If not, you should
?C: probably use getcwd().
?C:.
?H:#$d_getwd HAS_GETWD  /**/
?H:.
?LINT:set d_getwd
: see if getwd exists
echo " "
if set getwd val -f d_getwd; eval $csym; $val; then
 echo 'getwd() found.' >&4
 val="$define"
else
 echo 'getwd() not found. Assuming getcwd() exists.' >&4
 val="$undef"
fi
set d_getwd
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getwd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_ftello: Inlibc longsize
?MAKE: -pick add $@ %<
?S:d_ftello:
?S: This variable conditionally defines the HAS_FTELLO symbol, which
?S: indicates to the C program that the ftello() routine is available.
?S:.
?C:HAS_FTELLO:
?C: This symbol, if defined, indicates that the ftello routine is
?C: available to ftell beyond 32 bits (useful for ILP32 hosts).
?C:.
?H:#$d_ftello HAS_FTELLO  /**/
```

```
?H:.
?LINT:set d_ftello
: see if ftello exists
set ftello d_ftello
eval $inlibc
case "$longsize" in
8) echo "(Your long is 64 bits, so you could use ftell.)" ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_ftello.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_shm.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_shm: test d_shmctl d_shmget d_shmat d_shmdt Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_shm:
?S: This variable conditionally defines the HAS_SHM symbol, which
?S: indicates that the entire shm*(2) library is present.
?S:.
?C:HAS_SHM:
?C: This symbol, if defined, indicates that the entire shm*(2) library is
?C: supported.
?C:.
?H:#$d_shm HAS_SHM  /**/
?H:.
?T:h_shm
?LINT:set d_shm
:
 see how much of the 'shm*(2)' library is present.
h_shm=true
echo " "
case "$d_shmctl$d_shmget$d_shmat$d_shmdt" in
*"$undef"*) h_shm=false;;
```

```
esac
: we could also check for sys/ipc.h ...
if $h_shm && $test `./findhdr sys/shm.h`; then
 echo "You have the full shm*(2) library." >&4
 val="$define"
else
 echo "You don't have the full shm*(2) library." >&4
 val="$undef"
fi
set d_shm
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_shm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sysman.U,v 3.0.1.2 1994/06/20 07:08:43 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sysman.U,v $
?RCS: Revision 3.0.1.2  1994/06/20  07:08:43  ram
?RCS: patch30: now explicitly states that /usr/man/man1 is the default
?RCS: patch30: added /usr/local/man/man1 to the search list
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:13:50  ram
?RCS: patch10: added support for /local/man/man1 (WAD)
?RCS: patch10: added temporary syspath variable to cut down on line length
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:55  ram
?RCS: Baseline for dist 3.0 netwide
 release.
?RCS:
?MAKE:sysman: test Loc Oldconfig
?MAKE: -pick add $@ %<
?S:sysman:
?S: This variable holds the place where the manual is located on this
?S: system. It is not the place where the user wants to put his manual
?S: pages. Rather it is the place where Configure may look to find manual
?S: for unix commands (section 1 of the manual usually). See mansrc.
?S:.
```

```
?T:syspath
: determine where manual pages are on this system
echo " "
case "$sysman" in
")
 syspath='/usr/share/man/man1 /usr/man/man1'
 syspath="$syspath /usr/man/mann /usr/man/manl /usr/man/local/man1"
 syspath="$syspath /usr/man/u_man/man1"
 syspath="$syspath /usr/catman/u_man/man1 /usr/man/l_man/man1"
 syspath="$syspath /usr/local/man/u_man/man1 /usr/local/man/l_man/man1"
 syspath="$syspath /usr/man/man.L /local/man/man1 /usr/local/man/man1"
 sysman=`./loc . /usr/man/man1 $syspath`
 ;;
esac
if $test -d "$sysman"; then
 echo "System manual is in $sysman." >&4
else
 echo "Could not find manual pages in source form."
 >&4
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/sysman.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: yacc.U,v $
?RCS: Revision 3.0.1.1  1994/05/13  15:28:48  ram
?RCS: patch27: added byacc as another alternative (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:10:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:yacc yaccflags: Guess Myread Loc Oldconfig byacc bison cat test
?MAKE: -pick add $@ %<
?S:yacc:
?S: This variable holds the name of the compiler compiler we
?S: want to use in the Makefile. It can be yacc, byacc, or bison -y.
```

```
?S:.
?S:yaccflags:
?S: This variable contains any
 additional yacc flags desired by the
?S: user.  It is up to the Makefile to use this.
?S:.
?T:comp
: determine compiler compiler
echo " "
comp='yacc'
if $test -f "$byacc$_exe"; then
 comp="byacc or $comp"
fi
if $test -f "$bison$_exe"; then
 comp="$comp or bison -y"
fi
case "$yacc" in
")
 yacc=`./loc yacc yacc $pth`
 if $test -f "$yacc$_exe"; then
  dflt='yacc'
 elif $test -f "$byacc$_exe"; then
  dflt='byacc'
 elif $test -f "$bison$_exe"; then
  dflt='bison'
 else
  dflt=''
 fi
 ;;
*) dflt="$yacc";;
esac
rp="Which compiler compiler ($comp) shall I use?"
. ./myread
yacc="$ans"
case "$yacc" in
*bis*)
 case "$yacc" in
 *-y*) ;;
 *)
  yacc="$yacc -y"
  echo "(Adding -y option to bison to get yacc-compatible behaviour.)"
  ;;
 esac
 ;;
esac

@if yaccflags
: see if we need extra yacc flags
```

```
dflt="$yaccflags"
case "$dflt" in
") dflt=none;;
esac
$cat <<EOH

Your yacc program may need extra flags to normally process the parser sources.
Do NOT specify any -d or -v flags here, since those are
 explicitly known
by the various Makefiles. However, if your machine has strange/undocumented
options (like -Sr# on SCO to specify the maximum number of grammar rules), then
please add them here.  To use no flags, specify the word "none".

EOH
rp="Any additional yacc flags?"
. ./myread
case "$ans" in
none) yaccflags=";;
*) yaccflags="$ans";;
esac

@end
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/yacc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strtol.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strtol.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strtol: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtol:
?S: This variable conditionally defines the HAS_STRTOL symbol, which
?S: indicates to the C program that the strtol() routine is available
?S: to provide better numeric string conversion than atoi() and friends.
```

```
?S:.
?C:HAS_STRTOL (STRTOL):
?C: This symbol, if defined, indicates that
 the strtol routine is available
?C: to provide better numeric string conversion than atoi() and friends.
?C:.
?H:#$d_strtol HAS_STRTOL /**/
?H:.
?LINT:set d_strtol
: see if strtol exists
set strtol d_strtol
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strtol.U
No license file was found, but licenses were detected in source scan.

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, 2012 Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:byteorder: cat Myread Oldconfig Loc +cc +ccflags rm_try
?MAKE: -pick add $@ %<
?S:byteorder:
?S: This variable holds the byte order. In the following, larger digits
?S: indicate more significance.  The variable byteorder is either 4321
?S: on a big-endian machine, or 1234 on a little-endian, or 87654321
?S: on a Cray ... or 3412 with weird order !
?S:.
?C:BYTEORDER:
?C: This symbol hold the hexadecimal constant defined in byteorder,
?C: i.e. 0x1234 or 0x4321, etc...
?C:.
?H:#define BYTEORDER 0x$byteorder /*
 large digits for MSB */
?H:.
?T:xxx_prompt
?F:!try
: check for ordering of bytes in a long
case "$byteorder" in
")
 $cat <<'EOM'
```

```
In the following, larger digits indicate more significance.  A big-endian
machine like a Pyramid or a Motorola 680?0 chip will come out to 4321. A
little-endian machine like a Vax or an Intel 80?86 chip would be 1234. Other
machines may have weird orders like 3412.  A Cray will report 87654321. If
the test program works the default is probably right.
I'm now running the test program...
EOM
 $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
 int i;
 union {
  unsigned long l;
  char c[sizeof(long)];
 } u;

 if (sizeof(long) > 4)
  u.l = (0x08070605L << 32) | 0x04030201L;
 else
  u.l = 0x04030201L;
 for (i = 0; i < sizeof(long); i++)
  printf("%c", u.c[i]+'0');
 printf("\n");
 exit(0);
}
EOCP
 xxx_prompt=y
 if $cc $ccflags -o try try.c >/dev/null 2>&1 && ./try > /dev/null; then
  dflt=`./try`
  case "$dflt" in
  [1-4][1-4][1-4][1-4]|12345678|87654321)
   echo
 "(The test program ran ok.)"
   echo "byteorder=$dflt"
   xxx_prompt=n
   ;;
  ????|????????) echo "(The test program ran ok.)" ;;
  *) echo "(The test program didn't run right for some reason.)" ;;
  esac
 else
  dflt='4321'
  cat <<'EOM'
(I can't seem to compile the test program.  Guessing big-endian...)
EOM
 fi
 case "$xxx_prompt" in
```

```
 y)
  rp="What is the order of bytes in a long?"
  . ./myread
  byteorder="$ans"
  ;;
 *) byteorder=$dflt
  ;;
 esac
 ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/byteorder.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_exp2: Inlibc
?MAKE: -pick add $@ %<
?S:d_exp2:
?S: This variable conditionally defines the HAS_EXP2 symbol, which
?S: indicates to the C program that the exp2() routine is available.
?S:.
?C:HAS_EXP2:
?C: This symbol, if defined, indicates that the exp2 routine is
?C: available to do the 2**x function.
?C:.
?H:#$d_exp2 HAS_EXP2  /**/
?H:.
?LINT:set d_exp2
: see if exp2 exists
set exp2 d_exp2
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_exp2.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: newsspool.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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```

```
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: newsspool.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:newsspool newsspoolexp: Getfile Oldconfig
?MAKE: -pick add $@ %<
?S:newsspool:
?S: This variable contains the eventual value of the NEWSSPOOL symbol,
?S: which is the directory name where news articles are spooled.  It
?S: may have a ~ on the front of it.
?S:.
?S:newsspoolexp:
?S: This is the same as the newsspool variable, but is
 filename expanded
?S: at configuration time, for programs not wanting to deal with it at
?S: run-time.
?S:.
?C:NEWSSPOOL:
?C: This symbol contains the directory name where news articles are
?C: spooled.  The program must be prepared to do ~ expansion on it.
?C:.
?C:NEWSSPOOL_EXP:
?C: This is the same as NEWSSPOOL, but is filename expanded at
?C: configuration time, for use in programs not willing to do so
?C: at run-time.
?C:.
?H:#define NEWSSPOOL "$newsspool" /**/
?H:#define NEWSSPOOL_EXP "$newsspoolexp" /**/
?H:.
: locate news spool directory
case "$newsspool" in
")
 dflt=/usr/spool/news
 ;;
*) dflt="$newsspool";;
esac
echo " "
fn=d~
rp='Where are news spooled?'
. ./getfile
newsspool="$ans"
newsspoolexp="$ansexp"
```

Found in path(s):

* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/newsspool.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorhtml3dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorhtml3dir.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorhtml3dir vendorhtml3direxp installvendorhtml3dir: html3dir Getfile \
 Oldconfig Setprefixvar Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorhtml3dir:
?S: This variable contains the name of the directory for html
?S: library pages.  It may have a ~ on the front.
?S: The standard distribution will put nothing
 in this directory.
?S: Vendors who distribute perl may wish to place their own
?S: html pages for modules and extensions in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorhtml3direxp:
?S: This variable is the ~name expanded version of vendorhtml3dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorhtml3dir="
?S:installvendorhtml3dir:
?S: This variable is really the same as vendorhtml3direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorhtml3dir
: Set the vendorhtml3dir variables
case "$vendorprefix" in
") vendorhtml3dir="
 vendorhtml3direxp="
```

```
 ;;
*) : determine where vendor-supplied module html pages go.
 : There is no standard location, so try to copy the previously-selected
 : directory structure for the core html pages.
 : XXX Better default
 suggestions would be welcome.
 case "$vendorhtml3dir" in
 ") dflt=`echo "$html3dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
 *) dflt=$vendorhtml3dir ;;
 esac
 case "$dflt" in
 "|' ') dflt=none ;;
 esac
 fn=dn+~
 rp='Pathname for the vendor-supplied html pages?'
 . ./getfile
 vendorhtml3dir="$ans"
 vendorhtml3direxp="$ansexp"
 ;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorhtml3dir" = "X" && vendorhtml3dir=' '
prefixvar=vendorhtml3dir
. ./installprefix
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/vendorhtml3dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: abortsig.U,v 3.0.1.1 1994/10/29 16:02:19 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: abortsig.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:02:19  ram
?RCS: patch36: call ./usg explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:20  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:abortsig: Myread Oldconfig Guess cat Compile rm
```

```
?MAKE: -pick add $@ %<
?S:abortsig:
?S: This variable holds the name of the signal used by the abort() call.
?S:.
?C:ABORTSIG:
?C: This symbol holds the signal number (symbol)
 used by the abort() call. To
?C: actually define the signal symbol, <signal.h> should be included.
?C:.
?H:#define ABORTSIG $abortsig  /**/
?H:.
?T:signal
: which signal is sent by abort ?
echo " "
case "$abortsig" in
")
 echo "Checking to see which signal is sent to the process by abort()..." >&4
 echo "abort" > abort.sh
 chmod +x abort.sh
?X: SIGABRT should replace SIGIOT on USG machines in a near future (1991).
 for signal in SIGIOT SIGILL SIGABRT; do
  case "$abortsig" in
  ") $cat >abort.c <<EOP
#include <signal.h>
caught() { exit(0); }
int main()
{
#ifdef $signal
 signal($signal, caught);
#endif
 if (-1 == abort())
  exit(1);
 exit(1);
}
EOP
?X: We have to use the abort.sh script otherwise sh behaves strangely on AIX.
   set abort
   if eval $compile; then
    (./abort.sh) >/dev/null 2>&1
    case $? in
    0) abortsig="$signal";;
    esac
   fi
   ;;
  esac
 done
 ;;
esac
```

```
case "$abortsig" in
") echo "(I wasn't able to compute the signal name--guessing)"
 if ./usg; then
  dflt="SIGIOT"
 else
  dflt="SIGILL"
 fi;;
*)
  dflt="$abortsig"
 ;;
esac
rp="Which signal does abort() send to the process (signal name)?"
. ./myread
abortsig="$ans"
$rm -f core abort.sh abort abort.c
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/abortsig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_rmdir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_rmdir.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_rmdir: Inlibc
?MAKE: -pick add $@ %<
?S:d_rmdir:
?S: This variable conditionally defines HAS_RMDIR if rmdir() is
?S: available to remove directories.
?S:.
?C:HAS_RMDIR (RMDIR):
?C: This symbol, if defined, indicates that the rmdir routine is
?C: available to remove directories. Otherwise you should fork off a
?C: new process to exec
 /bin/rmdir.
?C:.
?H:#$d_rmdir HAS_RMDIR  /**/
```

```
?H:.
?LINT:set d_rmdir
: see if rmdir exists
set rmdir d_rmdir
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_rmdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fchdir: Inlibc
?MAKE: -pick add $@ %<
?S:d_fchdir:
?S: This variable conditionally defines the HAS_FCHDIR symbol, which
?S: indicates to the C program that the fchdir() routine is available.
?S:.
?C:HAS_FCHDIR:
?C: This symbol, if defined, indicates that the fchdir routine is
?C: available to change directory using a file descriptor.
?C:.
?H:#$d_fchdir HAS_FCHDIR  /**/
?H:.
?LINT:set d_fchdir
: see if fchdir exists
set fchdir d_fchdir
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fchdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysun.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit looks wether <inttypes.h> is available or not
?X:
?MAKE:i_inttypes: Inhdr
?MAKE: -pick add $@ %<
?S:i_inttypes:
?S: This variable conditionally defines I_INTTYPES, which indicates
?S: to the C program that it should include <inttypes.h> to get
?S: format conversions of integer types.
?S:.
?C:I_INTTYPES:
?C: This symbol, if defined, indicates to the C program that it should
?C: include
 <inttypes.h> to get format conversions of integer types.
?C:.
?H:#$i_inttypes I_INTTYPES  /**/
?H:.
?LINT:set i_inttypes
: see if this is a inttypes.h system
set inttypes.h i_inttypes
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_inttypes.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_lroundl: Inlibc
?MAKE: -pick add $@ %<
?S:d_lroundl:
?S: This variable conditionally defines the HAS_LROUNDL symbol, which
?S: indicates to the C program that the lroundl() routine is available
?S: to return the integral value nearest to x away from zero.
?S:.
?C:HAS_LROUNDL:
?C: This symbol, if defined, indicates that the lroundl routine is
?C: available to return the nearest integral value away from zero of
?C: the long double argument value.
?C:.
```

```
?H:#$d_lroundl HAS_LROUNDL  /**/
?H:.
?LINT:set d_lroundl
: see if lroundl exists
set lroundl d_lroundl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lroundl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fdim: Inlibc
?MAKE: -pick add $@ %<
?S:d_fdim:
?S: This variable conditionally defines the HAS_FDIM symbol, which
?S: indicates to the C program that the fdim() routine is available.
?S:.
?C:HAS_FDIM:
?C: This symbol, if defined, indicates that the fdim routine is
?C: available to do the positive difference function.
?C:.
?H:#$d_fdim HAS_FDIM  /**/
?H:.
?LINT:set d_fdim
: see if fdim exists
set fdim d_fdim
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fdim.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Oldconfig.U,v 3.0.1.10 1997/02/28 15:06:39 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Oldconfig.U,v $
```

```
?RCS: Revision 3.0.1.10  1997/02/28  15:06:39  ram
?RCS: patch61: added support for src.U
?RCS: patch61: new OSNAME define
?RCS: patch61: can now sense new OSes
?RCS:
?RCS: Revision 3.0.1.9  1995/07/25  13:40:51  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.8  1995/05/12  12:04:18  ram
?RCS: patch54: config.sh reload logic now knows about new -K switch
?RCS: patch54: cleaned up and extended osvers for DEC
 OSF/1 (ADO)
?RCS: patch54: added MachTen detection (ADO)
?RCS:
?RCS: Revision 3.0.1.7  1995/02/15  14:13:41  ram
?RCS: patch51: adapted osvers computation for AIX (ADO)
?RCS:
?RCS: Revision 3.0.1.6  1995/01/30  14:27:15  ram
?RCS: patch49: unit Options.U now exports file optdef.sh, not a variable
?RCS: patch49: update code for myuname changed (WED)
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:15:36  ram
?RCS: patch45: added quotes around the INITPROG variable (ADO)
?RCS: patch45: allows variable overriding after config file loading
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  15:57:05  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: merged with the version used for perl5's Configure (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/05/06  14:24:17  ram
?RCS: patch23: added support for osf1 hints
?RCS: patch23: new support for solaris and i386 systems (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:05:02  ram
?RCS: patch16: added post-processing on myuname for Xenix targets
?RCS:
 patch16: message proposing config.sh defaults made consistent
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  15:56:32  ram
?RCS: patch10: force use of config.sh when -d option is used (WAD)
?RCS: patch10: complain about non-existent hint files (WAD)
?RCS: patch10: added Options dependency for fastread variable
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:12  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit tries to remember what we did last time we ran Configure, mostly
```

```
?X: for the sake of setting defaults.
?X:
?MAKE:Oldconfig hint myuname osname osvers: Instruct Myread uname \
 Checkcc Mksymlinks run \
 sh awk sed test cat rm lns tr n c contains Loc Options Tr src trnl ln
?MAKE: -pick wipe $@ %<
?S:myuname:
?S: The output of 'uname -a' if available, otherwise the hostname.
?S: The whole thing is then lower-cased and slashes and single quotes are
?S: removed.
?S:.
?S:hint:
?S: Gives the type of hints used for previous answers. May be one of
?S: "default",
 "recommended" or "previous".
?S:.
?S:osname:
?S: This variable contains the operating system name (e.g. sunos,
?S: solaris, hpux, etc.).  It can be useful later on for setting
?S: defaults.  Any spaces are replaced with underscores.  It is set
?S: to a null string if we can't figure it out.
?S:.
?S:osvers:
?S: This variable contains the operating system version (e.g.
?S: 4.1.3, 5.2, etc.).  It is primarily used for helping select
?S: an appropriate hints file, but might be useful elsewhere for
?S: setting defaults.  It is set to '' if we can't figure it out.
?S: We try to be flexible about how much of the version number
?S: to keep, e.g. if 4.1.1, 4.1.2, and 4.1.3 are essentially the
?S: same for this package, hints files might just be os_4.0 or
?S: os_4.1, etc., not keeping separate files for each little release.
?S:.
?C:OSNAME:
?C: This symbol contains the name of the operating system, as determined
?C: by Configure.  You shouldn't rely on it too much; the specific
?C: feature tests
 from Configure are generally more reliable.
?C:.
?C:OSVERS:
?C: This symbol contains the version of the operating system, as determined
?C: by Configure.  You shouldn't rely on it too much; the specific
?C: feature tests from Configure are generally more reliable.
?C:.
?H:#define OSNAME "$osname"  /**/
?H:#define OSVERS "$osvers"  /**/
?H:.
?F:!config.sh
?T:tmp tmp_n tmp_c tmp_sh file
```

```
?T:xxxxfile xxxfile xxfile xfile hintfile newmyuname
?T:tans _ isesix INITPROG DJGPP
?D:osname="
?LINT:change n c sh
?LINT:extern targetarch
?LINT:extern hostarch
?LINT:change hostarch
?LINT:extern is_os2
: Try to determine whether config.sh was made on this system
case "$config_sh" in
")
?X: indentation wrong on purpose--RAM
?X: Leave a white space between first two '(' for ksh. The sub-shell is needed
?X: on some machines to avoid the error message when uname is not found; e.g.
?X: old SUN-OS 3.2 would not execute hostname in (uname -a || hostname). Sigh!
?X: Now not using a subshell but instead $test.
myuname=`$uname
 -a 2>/dev/null`
$test -z "$myuname" && myuname=`hostname 2>/dev/null`
# Downcase everything to avoid ambiguity.
# Remove slashes and single quotes so we can use parts of this in
# directory and file names.
# Remove newlines so myuname is sane to use elsewhere.
# tr '[A-Z]' '[a-z]' would not work in EBCDIC
# because the A-Z/a-z are not consecutive.
myuname=`echo $myuname | $sed -e "s,['/],,g" | \
 ./tr '[A-Z]' '[a-z]' | $tr $trnl ' '`
?X: Save the value we just computed to reset myuname after we get done here.
newmyuname="$myuname"
dflt=n
case "$knowitall" in
")
 if test -f ../config.sh; then
  if $contains myuname= ../config.sh >/dev/null 2>&1; then
   eval "`grep myuname= ../config.sh`"
  fi
  if test "X$myuname" = "X$newmyuname"; then
   dflt=y
  fi
 fi
 ;;
*) dflt=y;;
esac

@if {test -d ../hints}
: Get old answers from old config file if Configure was run on the
: same system, otherwise use the hints.
hint=default
```

```
cd ..
?X: Since we are now at the root of the source
 tree, we must use $src
?X: to access the sources and not $rsrc. See src.U for details...
if test -f config.sh; then
 echo " "
 rp="I see a config.sh file.  Shall I use it to set the defaults?"
 . UU/myread
 case "$ans" in
 n*|N*) echo "OK, I'll ignore it."
  mv config.sh config.sh.old
  myuname="$newmyuname"
  ;;
 *)  echo "Fetching default answers from your old config.sh file..." >&4
  tmp_n="$n"
  tmp_c="$c"
  tmp_sh="$sh"
  . ./config.sh
  cp config.sh UU
  n="$tmp_n"
  c="$tmp_c"
  : Older versions did not always set $sh.  Catch re-use of such
  : an old config.sh.
  case "$sh" in
  ") sh="$tmp_sh" ;;
  esac
  hint=previous
  ;;
 esac
fi
. ./UU/checkcc
if test ! -f config.sh; then
 $cat <<EOM

First time through, eh?  I have some defaults handy for some systems
that need some extra help getting the Configure answers right:

EOM
 (cd $src/hints; ls -C *.sh) | $sed 's/\.sh/   /g' >&4
 dflt="
 : Half the following guesses are probably wrong... If you have better
 : tests or hints,
 please send them to <MAINTLOC>
 : The metaconfig authors would also appreciate a copy...
 $test -f /irix && osname=irix
 $test -f /xenix && osname=sco_xenix
 $test -f /dynix && osname=dynix
 $test -f /dnix && osname=dnix
```

```
 $test -f /lynx.os && osname=lynxos
 $test -f /unicos && osname=unicos && osvers=`$uname -r`
 $test -f /unicosmk && osname=unicosmk && osvers=`$uname -r`
 $test -f /unicosmk.ar && osname=unicosmk && osvers=`$uname -r`
 $test -f /bin/mips && /bin/mips && osname=mips
 $test -d /usr/apollo/bin && osname=apollo
 $test -f /etc/saf/_sactab && osname=svr4
 $test -d /usr/include/minix && osname=minix && osvers=`$uname -r`
 $test -f /system/gnu_library/bin/ar.pm && osname=vos
 $test -f /sys/utilities/MultiView && osname=amigaos
 if $test -d /MachTen -o -d /MachTen_Folder; then
?X:  MachTen uname -a output looks like
?X:  xxx 4 0.0 Macintosh
?X:  MachTen /sbin/version output looks like
?X:  MachTen 4.0 Mon Aug 28 10:18:00 1995
?X:  MachTen 3.x had the 'version' command in /usr/etc/version.
  osname=machten
  if
 $test -x /sbin/version; then
   osvers=`/sbin/version | $awk '{print $2}' |
   $sed -e 's/[A-Za-z]$//'`
  elif $test -x /usr/etc/version; then
   osvers=`/usr/etc/version | $awk '{print $2}' |
   $sed -e 's/[A-Za-z]$//'`
  else
   osvers="$2.$3"
  fi
 fi

 $test -f /sys/posix.dll &&
  $test -f /usr/bin/what &&
  set X `/usr/bin/what /sys/posix.dll` &&
  $test "$3" = UWIN &&
  osname=uwin &&
  osvers="$5"

?X: If we have uname, we already computed a suitable uname -a output,
?X: and it lies in $myuname.
 if $test -f $uname; then
  set X $myuname
  shift

  case "$5" in
  fps*) osname=fps ;;
  mips*)
   case "$4" in
   umips) osname=umips ;;
   *) osname=mips ;;
```

```
  esac;;
 [23]100) osname=mips ;;
?X: Interactive Unix.
 i386*)
  tmp=`/bin/uname -X 2>/dev/null|awk '/3\.2v[45]/{ print $(NF) }'`
  if $test "$tmp" != "" -a "$3" = "3.2" -a -f '/etc/systemid'; then
   osname='sco'
   osvers=$tmp
  elif $test -f /etc/kconfig; then
   osname=isc
   if
test "$lns" = "$ln -s"; then
    osvers=4
   elif $contains _SYSV3 /usr/include/stdio.h > /dev/null 2>&1 ; then
    osvers=3
   elif $contains _POSIX_SOURCE /usr/include/stdio.h > /dev/null 2>&1 ; then
    osvers=2
   fi
  fi
  tmp=''
  ;;
?X: MS-DOS djgpp uname -a output looks like:
?X: ms-dos xxx 6 22 pc
?X:  $1 is the "dos flavor" (need not be "ms-dos").
?X:  $2 is the node name
?X:  $3 and $4 are version/subversion
?X:  $5 is always "pc", but that might not be unique to DJGPP.
?X: (e.g. Solaris_x86 has $5 = i86pc, which doesn't actually conflict,
?X: but it's close enough that I can easily imagine other vendors also
?X: using variants of pc* in $5.)
?X:  The "DJGPP" environment variable is always set when djgpp is active.
 pc*)
  if test -n "$DJGPP"; then
   osname=dos
   osvers=djgpp
  fi
  ;;
 esac

 case "$1" in
 aix) osname=aix
?X: aix 4.1 uname -a output looks like
?X:  AIX  foo  1 4 000123456789
?X: where $4 is the major release number and $3 is the (minor)
 version.
?X: More detail on the version is available with the oslevel command.
?X: in 3.2.x, it output a string (see case statements below).  In 4.1,
?X: it puts out something like  4.1.1.0
```

```
  tmp=`( (oslevel) 2>/dev/null || echo "not found") 2>&1`
  case "$tmp" in
  # oslevel can fail with:
  # oslevel: Unable to acquire lock.
  *not\ found) osvers="$4"."$3" ;;
  '<3240'|'<>3240') osvers=3.2.0 ;;
  '=3240'|'>3240'|'<3250'|'<>3250') osvers=3.2.4 ;;
  '=3250'|'>3250') osvers=3.2.5 ;;
  *) osvers=$tmp;;
  esac
  ;;
 bitrig) osname=bitrig
  osvers="$3"
  ;;
 bsd386) osname=bsd386
  osvers=`$uname -r`
  ;;
 cygwin*) osname=cygwin
  osvers="$3"
  ;;
 *dc.osx) osname=dcosx
  osvers="$3"
  ;;
 dnix) osname=dnix
  osvers="$3"
  ;;
 domainos) osname=apollo
  osvers="$3"
  ;;
 dgux) osname=dgux
  osvers="$3"
  ;;
 dragonfly) osname=dragonfly
  osvers="$3"
  ;;
?X:  uname -a returns
?X:  DYNIX/ptx xxx 4.0 V4.1.2 i386
 dynixptx*) osname=dynixptx
  osvers=`echo
 "$4"|sed 's/^v//'`
  ;;
 freebsd) osname=freebsd
  osvers="$3" ;;
 genix) osname=genix ;;
?X: GNU/Hurd uname -a gives something like:
?X: GNU foo 0.3 GNU-Mach 1.4/Hurd-0.3 i386-AT386 GNU
?X: GNU gnu 0.3 GNUmach-1.2/Hurd-0.3 i386-AT386 GNU
?X: Note the hostname on the second one, which will fool Configure
```

```
?X: into using the SysV case!
  gnu) osname=gnu
   osvers="$3" ;;
?X: HP-UX uname -a gives something like
?X: HP-UX foobar B.10.20 A 9000/735 2016483812 two-user license
?X: Preserve the full 10.20 string instead of the previous plain '10'.
?X:  Thanks to Graham Barr.    --AD 6/30/1998
  hp*) osname=hpux
   osvers=`echo "$3" | $sed 's,.*\.\([0-9]*\.[0-9]*\),\1,'`
   ;;
  irix*) osname=irix
   case "$3" in
   4*) osvers=4 ;;
   5*) osvers=5 ;;
   *) osvers="$3" ;;
   esac
   ;;
  linux) osname=linux
   case "$3" in
   *) osvers="$3" ;;
   esac
   $test -f /system/lib/libandroid.so && osname=linux-android
   ;;
  MiNT) osname=mint
   ;;
  minix) osname=minix
   osvers=`$uname -r`
   ;;
  netbsd*)
 osname=netbsd
   osvers="$3"
   ;;
  news-os) osvers="$3"
   case "$3" in
   4*) osname=newsos4 ;;
   *) osname=newsos ;;
   esac
   ;;
  nonstop-ux) osname=nonstopux ;;
  openbsd) osname=openbsd
   osvers="$3"
   ;;
  os2) osname=os2
   osvers="$4"
   ;;
  POSIX-BC | posix-bc ) osname=posix-bc
   osvers="$3"
   ;;
```

```
  powerux | power_ux | powermax_os | powermaxos | \
  powerunix | power_unix) osname=powerux
   osvers="$3"
   ;;
  qnx) osname=qnx
   osvers="$4"
   ;;
  solaris) osname=solaris
   case "$3" in
   5*) osvers=`echo $3 | $sed 's/^5/2/g'` ;;
   *) osvers="$3" ;;
   esac
   ;;
  sunos) osname=sunos
   case "$3" in
   5*) osname=solaris
    osvers=`echo $3 | $sed 's/^5/2/g'` ;;
   *) osvers="$3" ;;
   esac
   ;;
  titanos) osname=titanos
   case "$3" in
   1*) osvers=1 ;;
   2*) osvers=2 ;;
   3*) osvers=3 ;;
   4*) osvers=4 ;;
   *) osvers="$3" ;;
   esac
   ;;
  ultrix) osname=ultrix
   osvers="$3"
   ;;
  osf1|mls+) case "$5" in
    alpha)
?X: DEC OSF/1 myuname
 -a output looks like:  osf1 xxxx t3.2 123.4 alpha
?X: where the version number can be something like [xvt]n.n
     osname=dec_osf
?X: sizer knows the minor minor version: the letter
     osvers=`sizer -v | awk -FUNIX '{print $2}' | awk '{print $1}' |  tr '[A-Z]' '[a-z]' | sed 's/^[xvt]//'`
     case "$osvers" in
     [1-9].[0-9]*) ;;
     *) osvers=`echo "$3" | sed 's/^[xvt]//'` ;;
     esac
     ;;
   hp*) osname=hp_osf1 ;;
   mips) osname=mips_osf1 ;;
?X: hp and mips were unsupported Technology Releases -- ADO, 24/10/94
```

```
 esac
 ;;
# UnixWare 7.1.2 is known as Open UNIX 8
openunix|unixware) osname=svr5
 osvers="$4"
 ;;
uts) osname=uts
 osvers="$3"
 ;;
vos) osvers="$3"
 ;;
$2) case "$osname" in
 *isc*) ;;
 *freebsd*) ;;
 svr*)
  : svr4.x or possibly later
  case "svr$3" in
  ${osname}*)
   osname=svr$3
   osvers=$4
   ;;
  esac
  case "$osname" in
  svr4.0)
   : Check for ESIX
   if test -f /stand/boot ; then
    eval `grep '^INITPROG=[a-z/0-9]*$'
/stand/boot`
    if test -n "$INITPROG" -a -f "$INITPROG"; then
  isesix=`strings -a $INITPROG|grep 'ESIX SYSTEM V/386 Release 4.0'`
     if test -n "$isesix"; then
      osname=esix4
     fi
    fi
   fi
   ;;
  esac
  ;;
 *) if test -f /etc/systemid; then
   osname=sco
   set `echo $3 | $sed 's/\./ /g'` $4
   if $test -f $src/hints/sco_$1_$2_$3.sh; then
    osvers=$1.$2.$3
   elif $test -f $src/hints/sco_$1_$2.sh; then
    osvers=$1.$2
   elif $test -f $src/hints/sco_$1.sh; then
    osvers=$1
   fi
```

```
   else
    case "$osname" in
    ") : Still unknown.  Probably a generic Sys V.
     osname="sysv"
     osvers="$3"
     ;;
    esac
   fi
   ;;
  esac
  ;;
 *) case "$osname" in
  ") : Still unknown.  Probably a generic BSD.
   osname="$1"
   osvers="$3"
   ;;
  esac
  ;;
 esac
else
?X: Try to identify sony's NEWS-OS (BSD unix)
 if test -f /vmunix -a -f $src/hints/news_os.sh; then
  (what /vmunix | UU/tr '[A-Z]'
'[a-z]') > UU/kernel.what 2>&1
  if $contains news-os UU/kernel.what >/dev/null 2>&1; then
   osname=news_os
  fi
  $rm -f UU/kernel.what
?X: Maybe it's OS/2 or DOS or something similar
 elif test -d c:/. -o -n "$is_os2" ; then
  set X $myuname
  osname=os2
  osvers="$5"
 fi
fi

     case "$targetarch" in
     ") ;;
     *)  hostarch=$osname
        case "$targetarch" in
           nto*|*-nto-*)
              # Will load qnx.sh, which should change osname to nto
              osname=qnx
              osvers="
              ;;
           *linux-android*)
              # Catch arm-linux-androideabi, mipsel-linux-android,
              # and i686-linux-android
```

```
            osname=linux-android
            osvers=''
            ;;
        *linux*)
            # Something like arm-linux-gnueabihf is really just
            # plain linux.
            osname=linux

            osvers=''
            ;;
        *solaris*|*sunos*)
            osname=solaris
            # XXX perhaps we should just assume
            # osvers to be 2, or maybe take the value
            # from targetarch. Using $run before the
            # hints are run is somewhat icky.
            set X `$run $uname -a 2>/dev/null`
            shift
            case "$3" in
                5*) osvers=`echo $3 | $sed 's/^5/2/g'` ;;
                *)  osvers="$3" ;;
            esac
            ;;
        *)
    osname=`echo $targetarch|sed 's,^[^-]*-,,'`
    osvers=''
        ;;
    esac
    ;;
 esac

: Now look for a hint file osname_osvers, unless one has been
: specified already.
case "$hintfile" in
''|' ')
 file=`echo "${osname}_${osvers}" | $sed -e 's%\.%_%g' -e 's%_$%%'`
 : Also try without trailing minor version
numbers.
 xfile=`echo $file | $sed -e 's%_[^_]*$%%'`
 xxfile=`echo $xfile | $sed -e 's%_[^_]*$%%'`
 xxxfile=`echo $xxfile | $sed -e 's%_[^_]*$%%'`
 xxxxfile=`echo $xxxfile | $sed -e 's%_[^_]*$%%'`
 case "$file" in
 '') dflt=none ;;
 *)  case "$osvers" in
  '') dflt=$file
   ;;
  *)  if $test -f $src/hints/$file.sh ; then
```

```
    dflt=$file
   elif $test -f $src/hints/$xfile.sh ; then
    dflt=$xfile
   elif $test -f $src/hints/$xxfile.sh ; then
    dflt=$xxfile
   elif $test -f $src/hints/$xxxfile.sh ; then
    dflt=$xxxfile
   elif $test -f $src/hints/$xxxxfile.sh ; then
    dflt=$xxxxfile
   elif $test -f "$src/hints/${osname}.sh" ; then
    dflt="${osname}"
   else
    dflt=none
   fi
   ;;
  esac
  ;;
 esac
 if $test -f Policy.sh ; then
  case "$dflt" in
  *Policy*) ;;
  none) dflt="Policy" ;;
  *) dflt="Policy $dflt" ;;
  esac
 fi
 ;;
*)
 dflt=`echo $hintfile | $sed 's/\.sh$//'`
 ;;
esac

if $test -f Policy.sh ; then
 $cat <<EOM

There's also
 a Policy hint file available, which should make the
site-specific (policy) questions easier to answer.
EOM

 fi

 $cat <<EOM

You may give one or more space-separated answers, or "none" if appropriate.
If you have a handcrafted Policy.sh file or a Policy.sh file generated by a
previous run of Configure, you may specify it as well as or instead of
OS-specific hints.  If hints are provided for your OS, you should use them:
although Perl can probably be built without hints on many platforms, using
```

```
hints often improve performance and may enable features that Configure can't
set up on its own. If there are no hints that match your OS, specify "none";
DO NOT give a wrong version or a wrong OS.

EOM

 rp="Which of these apply, if any?"
 . UU/myread
 tans=$ans
 for file in $tans; do
  if $test X$file = XPolicy -a -f Policy.sh; then
   . Policy.sh
   $cat Policy.sh >> UU/config.sh
  elif $test -f $src/hints/$file.sh; then
   . $src/hints/$file.sh
   $cat $src/hints/$file.sh >> UU/config.sh
  elif
 $test X"$tans" = X -o X"$tans" = Xnone ; then
   : nothing
  else
   : Give one chance to correct a possible typo.
   echo "$file.sh does not exist"
   dflt=$file
   rp="hint to use instead?"
   . UU/myread
   for file in $ans; do
    if $test -f "$src/hints/$file.sh"; then
     . $src/hints/$file.sh
     $cat $src/hints/$file.sh >> UU/config.sh
    elif $test X$ans = X -o X$ans = Xnone ; then
     : nothing
    else
     echo "$file.sh does not exist -- ignored."
    fi
   done
  fi
 done

 hint=recommended
 : Remember our hint file for later.
 if $test -f "$src/hints/$file.sh" ; then
  hintfile="$file"
 else
  hintfile=''
 fi
fi
cd UU
?X: From here on, we must use $rsrc instead of $src
```

```
@else
: Get old answers, if there is a config file out there
hint=default
hintfile=''
if test -f ../config.sh; then
 echo " "
 rp="I see a config.sh file.  Shall I use it to set the defaults?"
 . ./myread
 case "$ans" in
 n*|N*) echo "OK, I'll ignore it.";;
 *)  echo "Fetching default answers from
 your old config.sh file..." >&4
  tmp_n="$n"
  tmp_c="$c"
  . ../config.sh
  cp ../config.sh .
  n="$tmp_n"
  c="$tmp_c"
  hint=previous
  ;;
 esac
fi
@end
?X: remember, indentation is wrong--RAM
;;
*)
 echo " "
 echo "Fetching default answers from $config_sh..." >&4
 tmp_n="$n"
 tmp_c="$c"
 cd ..
?X: preserve symbolic links, if any
 cp $config_sh config.sh 2>/dev/null
 chmod +w config.sh
 . ./config.sh
 cd UU
 cp ../config.sh .
 n="$tmp_n"
 c="$tmp_c"
 hint=previous
 ;;
esac
. ./optdef.sh

: Restore computed paths
for file in $loclist $trylist; do
 eval $file="\$_$file"
done
```

```
@if osname || osvers
cat << EOM

Configure uses the operating system name and version to set some defaults.
The default value is probably right if the name rings a bell. Otherwise,
since spelling matters for me, either accept the default or answer "none"
to leave it blank.

EOM
@end
@if osname
case "$osname" in
 "|' ')
  case "$hintfile" in
  "|' '|none) dflt=none ;;
  *)  dflt=`echo $hintfile | $sed -e 's/\.sh$//'
 -e 's/_.*$//'` ;;
  esac
  ;;
 *) dflt="$osname" ;;
esac
rp="Operating system name?"
. ./myread
case "$ans" in
none)  osname=" ;;
*) osname=`echo "$ans" | $sed -e 's/[  ][ ]*/_/g' | ./tr '[A-Z]' '[a-z]'`;;
esac
@end
@if osvers
@if osname
echo " "
@end
case "$osvers" in
 "|' ')
  case "$hintfile" in
  "|' '|none) dflt=none ;;
  *) dflt=`echo $hintfile | $sed -e 's/\.sh$//' -e 's/^[^_]*//'`
   dflt=`echo $dflt | $sed -e 's/^_//' -e 's/_./g'`
   case "$dflt" in
   "|' ') dflt=none ;;
   esac
   ;;
  esac
  ;;
 *) dflt="$osvers" ;;
esac
rp="Operating system version?"
```

```
. ./myread
case "$ans" in
none)  osvers=" ;;
*) osvers="$ans" ;;
esac

@end

. ./posthint.sh
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Oldconfig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: socksizetype.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:socksizetype: \
 Protochk Oldconfig Myread cat d_socket d_socklen_t sizetype \
 usesocks i_socks i_systypes extern_C
?MAKE: -pick add $@ %<
?S:socksizetype:
?S: This variable holds the type used for the size argument
?S: for various socket calls like accept.  Usual values include
?S: socklen_t, size_t, and int.
?S:.
?C:Sock_size_t:
?C: This symbol holds the type used for the size argument of
?C: various socket calls (just the base type, not the pointer-to).
?C:.
?H:#define Sock_size_t  $socksizetype /**/
?H:.
?T:xxx yyy try
@if Sock_size_t
: check for type of the size argument to socket calls
case "$d_socket" in
"$define")
 $cat <<EOM

Checking to see what type is the last argument
 of accept().
EOM
 yyy="
```

```
 case "$d_socklen_t" in
 "$define") yyy="$yyy socklen_t"
 esac
 yyy="$yyy $sizetype int long unsigned"
 for xxx in $yyy; do
  case "$socksizetype" in
  ") try="$extern_C int accept(int, struct sockaddr *, $xxx *);"
   case "$usesocks" in
   "$define")
    if ./protochk "$try" $i_systypes sys/types.h $d_socket sys/socket.h literal '#define INCLUDE_PROTOTYPES'
$i_socks socks.h.; then
     echo "Your system accepts '$xxx *' for the last argument of accept()."
     socksizetype="$xxx"
    fi
    ;;
   *) if ./protochk "$try"  $i_systypes sys/types.h $d_socket sys/socket.h; then
     echo "Your system accepts '$xxx *' for the last argument of accept()."
     socksizetype="$xxx"
    fi
    ;;
   esac
   ;;
  esac
 done
: In case none of those worked, prompt the user.
 case "$socksizetype" in
 ") rp='What is the type for socket address structure sizes?'
  dflt='int'
  . ./myread
  socksizetype=$ans
  ;;
 esac
 ;;
*) : no sockets, so pick relatively harmless default
 socksizetype='int'
 ;;
esac
@end
```

Found
 in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/socksizetype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: alignbytes.U,v 3.0.1.2 1994/10/29 16:02:28 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: alignbytes.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:02:28  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:25:20  ram
?RCS: patch23: avoid ALIGNBYTES, since it conflicts on NetBSD
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:23  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:alignbytes: Myread Compile cat rm_try multiarch run test nvtype
?MAKE: -pick add $@ %<
?S:alignbytes:
?S: This
 variable holds the number of bytes required to align a
?S: double-- or a long double when applicable. Usual values are
?S: 2, 4 and 8.  The default is eight, for safety.
?S:.
?X: This used to be called ALIGNBYTES, but that conflicts with
?X: <machines/param.h> in NetBSD.
?C:MEM_ALIGNBYTES (ALIGNBYTES):
?C: This symbol contains the number of bytes required to align a
?C: double, or a long double when applicable. Usual values are 2,
?C: 4 and 8. The default is eight, for safety.  For cross-compiling
?C: or multiarch support, Configure will set a minimum of 8.
?C:.
?H:?%<:#define MEM_ALIGNBYTES $alignbytes
?H:.
?F:!try
: check for alignment requirements
echo " "
case "$alignbytes" in
   ") echo "Checking alignment constraints..." >&4
 $cat >try.c <<EOCP
#include <stdio.h>
struct foobar {
   char foo;
   $nvtype bar;
} try_algn;
int main()
{
```

```
   printf("%d\n", (int)((char *)&try_algn.bar - (char *)&try_algn.foo));
   return(0);
}
EOCP
 set try
 if eval $compile_ok; then
     dflt=`$run
 ./try`
 else
     dflt='8'
     echo "(I can't seem to compile the test program...)"
 fi
 case "$multiarch" in
     *$define*)
  : The usual safe value is 8, but Darwin with -Duselongdouble
  : needs 16.  Hence, we will take 8 as a minimum, but allow
  : Configure to pick a larger value if needed.
  if $test "$dflt" -lt 8; then
      dflt='8'
      echo "Setting alignment to 8 for multiarch support.">&4
  fi
  ;;
 esac
 ;;
   *) dflt="$alignbytes"
 ;;
esac
rp="Doubles must be aligned on a how-many-byte boundary?"
. ./myread
alignbytes="$ans"
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/alignbytes.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sigblock.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sigblock.U,v $
```

```
?RCS: Revision 3.0  1993/08/18  12:07:21  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sigblock: Inlibc
?MAKE: -pick add $@ %<
?S:d_sigblock:
?S: This variable conditionally defines HAS_SIGBLOCK if sigblock() is
?S: available to block signal reception.
?S:.
?C:HAS_SIGBLOCK:
?C: This symbol, if defined, indicates that the sigblock routine is
?C: available to block signal reception.
?C:.
?H:#$d_sigblock HAS_SIGBLOCK /**/
?H:.
?LINT:set
 d_sigblock
: see if sigblock exists
set sigblock d_sigblock
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sigblock.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ulimit.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_ulimit.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_ulimit: Inlibc
?MAKE: -pick add $@ %<
?S:d_ulimit:
?S: This variable conditionally defines HAS_ULIMIT if ulimit() is
?S: available to get the user limits.
?S:.
?C:HAS_ULIMIT (ULIMIT):
?C: This symbol, if defined, indicates that the ulimit system call is
```

```
?C: available to get the user limits.
?C:.
?H:#$d_ulimit HAS_ULIMIT  /**/
?H:.
?LINT:set
 d_ulimit
: see if ulimit exists
set ulimit d_ulimit
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_ulimit.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Myinit.U,v $
?RCS: Revision 3.0.1.1  1994/10/31  09:47:29  ram
?RCS: patch44: leading comment states this unit comes before option processing
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: If you want to initialize any default values, copy this unit to your
?X: personal U directory and add the assignments to the end.  This file
?X: is included after variables are initialized but before any old
?X: config.sh file is read in and before
 any Configure switch processing.
?X:
?MAKE:Myinit: Init
?MAKE: -pick add $@ %<
?LINT: nocomment
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Myinit.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: html3dir.U,v $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: html3dir.U,v $
?RCS:
?MAKE:html3dir html3direxp installhtml3dir: cat sed Loc Myread \
 spackage test Getfile Setprefixvar Prefixit Prefixup html1dir
?MAKE: -pick add $@ %<
?Y:TOP
?D:html3dir=''
?S:html3dir:
?S: This variable contains the name of the directory in which html
?S: source pages are to be put.  This directory is for pages
?S: that describe libraries or modules.  It is intended to
?S: correspond roughly to section 3 of the Unix manuals.
?S:.
?D:html3direxp=''
?S:html3direxp:
?S: This variable
 is the same as the html3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installhtml3dir=''
?S:installhtml3dir:
?S: This variable is really the same as html3direxp, unless you are
?S: using a different installprefix.  For extra portability, you
?S: should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set html3direxp
?LINT:set installhtml3dir
: determine where html pages for libraries and modules go
set html3dir html3dir none
eval $prefixit
$cat <<EOM

If you wish to install html files for modules associated with $spackage,
indicate the appropriate directory here.  To skip installing html files,
answer "none".
EOM
: There is no obvious default.  If they have specified html1dir, then
```

```
: try to key off that, possibly changing .../html1 into .../html3.
case "$html3dir" in
") html3dir=`echo "$html1dir" | $sed 's/1$/3$/'` ;;
*) dflt=$html3dir ;;
esac
fn=dn+~
rp="Directory for the $spackage module
 html pages?"
. ./getfile
prefixvar=html3dir
. ./setprefixvar
: Use ' ' for none so value is preserved next time through Configure
$test X"$html3dir" = "X" && html3dir=' '
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/html3dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Setprefixvar.U,v 3.0 2006/04/01 17:25:29 hmbrand $
?RCS:
?RCS: Copyright (c) 2006-2006, H.Merijn Brand & Nicholas Clark
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:   You may distribute under the terms of either the GNU General Public
?RCS:   License or the Artistic License, as specified in the README file.
?RCS:
?X:
?X: This unit sets up the scripts installprefix and setprefixvar, so code
?X: in other parts can be more simple and maintainable
?X:
?MAKE:Setprefixvar: Myread Getfile startsh eunicefix test \
 prefix prefixexp installprefix installprefixexp
?MAKE: -pick add $@ %<
?LINT:extern prefixvar
?X: metalint still sees "`\$${prefixvar}exp`" as variable :(
?T:prefixvarexp
?F:./setprefixvar
?F:./installprefix
: Perform
 the prefixexp/installprefixexp correction if necessary
cat <<EOS >installprefix
$startsh
EOS
cat <<'EOSC' >>installprefix
```

```
: Change installation prefix, if necessary.
if $test X"$prefix" != X"$installprefix"; then
   eval "install${prefixvar}=\`echo \$${prefixvar}exp | sed \"s#^\$prefixexp#\$installprefixexp#\"\`"
else
   eval "install${prefixvar}=\"\$${prefixvar}exp\""
fi
EOSC
chmod +x installprefix
$eunicefix installprefix

: Set variables such as privlib and privlibexp from the output of ./getfile
: performing the prefixexp/installprefixexp correction if necessary.
cat <<EOS >setprefixvar
$startsh
EOS
cat <<'EOSC' >>setprefixvar
eval "${prefixvar}=\"\$ans\""
eval "${prefixvar}exp=\"\$ansexp\""
. ./installprefix
EOSC
chmod +x setprefixvar
$eunicefix setprefixvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/Setprefixvar.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2017 H.Merijn Brand (original change by Tony Cook)
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_openat d_unlinkat d_renameat d_linkat d_fchmodat: Inlibc
?MAKE: -pick add $@ %<
?S:d_fchmodat:
?S: This variable conditionally defines the HAS_FCHMODAT symbol, which
?S: indicates the POSIX fchmodat() function is available.
?S:.
?S:d_linkat:
?S: This variable conditionally defines the HAS_LINKAT symbol, which
?S: indicates the POSIX linkat() function is available.
?S:.
?S:d_openat:
?S: This variable conditionally defines the HAS_OPENAT symbol, which
?S: indicates the POSIX openat() function is available.
?S:.
?S:d_renameat:
```

```
?S: This variable conditionally defines the HAS_RENAMEAT symbol, which
?S: indicates the POSIX renameat() function is available.
?S:.
?S:d_unlinkat:
?S: This variable
 conditionally defines the HAS_UNLINKAT symbol, which
?S: indicates the POSIX unlinkat() function isavailable.
?S:.
?C:HAS_FCHMODAT:
?C: This symbol is defined if the fchmodat() routine is available.
?C:.
?C:HAS_LINKAT:
?C: This symbol is defined if the linkat() routine is available.
?C:.
?C:HAS_OPENAT:
?C: This symbol is defined if the openat() routine is available.
?C:.
?C:HAS_RENAMEAT:
?C: This symbol is defined if the renameat() routine is available.
?C:.
?C:HAS_UNLINKAT:
?C: This symbol is defined if the unlinkat() routine is available.
?C:.
?H:#$d_fchmodat HAS_FCHMODAT /**/
?H:#$d_linkat HAS_LINKAT /**/
?H:#$d_openat HAS_OPENAT /**/
?H:#$d_renameat HAS_RENAMEAT /**/
?H:#$d_unlinkat HAS_UNLINKAT /**/
?H:.
?LINT:set d_openat d_unlinkat d_renameat d_linkat d_fchmodat
: check for openat, unlinkat, renameat, linkat, fchmodat
set openat d_openat
eval $inlibc

set unlinkat d_unlinkat
eval $inlibc

set renameat d_renameat
eval $inlibc

set linkat d_linkat
eval $inlibc

set fchmodat d_fchmodat
eval
 $inlibc

Found in path(s):
```

* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fsat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sockopt.U,v $
?RCS: Revision 3.0.1.1  1995/07/25  14:16:14  ram
?RCS: patch56: obsoleted KEEPALIVE in favor of CAN_KEEPALIVE for consistency
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_keepalive: cat rm contains +cc +ccflags socketlib sockethdr \
 d_oldsock libs Oldconfig Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_keepalive:
?S: This symbol conditionally defines CAN_KEEPALIVE which indicates to the C
?S: program that setsockopt
 SO_KEEPALIVE will work properly.
?S:.
?C:CAN_KEEPALIVE (KEEPALIVE):
?C: This symbol if defined indicates to the C program that the SO_KEEPALIVE
?C: option of setsockopt() will work as advertised in the manual.
?C:.
?H:#$d_keepalive CAN_KEEPALIVE  /**/
?H:.
?F:!socket
?LINT:set d_keepalive
: see if setsockopt with SO_KEEPALIVE works as advertised
echo " "
case "$d_oldsock" in
"$undef")
 if $contains SO_KEEPALIVE `./findhdr sys/socket.h` \
  /dev/null >/dev/null 2>&1
 then
  echo "OK, let's see if SO_KEEPALIVE works as advertised..." >&4
  $cat > socket.c <<EOP
#include <sys/types.h>
#include <sys/socket.h>
```

```
#include <netinet/in.h>
#include <netdb.h>

int main()
{
 int s = socket(AF_INET, SOCK_STREAM, 0);
 if (s == -1)
  exit(1);
 if (-1 == setsockopt(s, SOL_SOCKET, SO_KEEPALIVE, 0, 0))
  exit(2);
 exit(0);
}
EOP
  if $cc $ccflags $sockethdr -o socket socket.c $libs \
   $socketlib >/dev/null 2>&1; then
   ./socket >/dev/null 2>&1
   case $? in
   0) echo "Yes, it does!"
    val="$define";;
   1)
 $cat <<EOM
(Something went wrong -- Assuming SO_KEEPALIVE is broken)
EOM
    val="$undef";;
   2) echo "No, it doesn't.  Don't trust your manuals!!"
    val="$undef";;
   esac
  else
   cat <<EOM
(I can't compile the test program -- Assuming SO_KEEPALIVE is broken)
EOM
   val="$undef"
  fi
 else
  echo "Strange!! You have BSD 4.2 sockets but no SO_KEEPALIVE option."
  val="$undef"
 fi;;
*) cat <<EOM
As you have an old socket interface, you can't have heard of SO_KEEPALIVE.
EOM
 val="$undef";;
esac
set d_keepalive
eval $setvar
$rm -f socket socket.c
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/dist/U/sockopt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strerror_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_strerror_l:
?S: This variable conditionally defines the HAS_STRERROR_L symbol, which
?S: indicates to the C program that the strerror_l() routine is available
?S: to return the error message for a given errno value in a particular
?S: locale (identified by a locale_t object).
?S:.
?C:HAS_STRERROR_L:
?C: This symbol, if defined, indicates that the strerror_l routine is
?C: available to return the error message for a given errno value in
?C: a particular locale (identified by a locale_t object).
?C:.
?H:#$d_strerror_l HAS_STRERROR_L  /**/
?H:.
?LINT:set d_strerror_l
: see if strerror_l exists
set strerror_l d_strerror_l
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strerror_l.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: End.U,v 3.0 1993/08/18 12:04:51 ram Exp $
?RCS:
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?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: End.U,v $
?RCS: Revision 3.0  1993/08/18  12:04:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit serves as the goal which forces make to choose all the units that
?X: ask questions.  The $W on the ?MAKE: line is the list of all symbols wanted.
```

```
?X: To force any unit to be included, copy this unit to your private U directory
?X: and add the name of the unit desired to the ?MAKE: dependency line.
?X:
?MAKE:End perllibs: $W cppstdin gzip zip
 libs usedl osname osvers
?MAKE: -pick add $@ %<
?S:perllibs:
?S: The list of libraries needed by Perl only (any libraries needed
?S: by extensions only will by dropped, if using dynamic loading).
?S:.
?INIT:perllibs="
?LINT:use $W
?LINT:use gzip zip
?LINT:change cppstdin
: Remove libraries needed only for extensions
: The appropriate ext/Foo/Makefile.PL will add them back in, if necessary.
: The exception is SunOS 4.x, which needs them.
case "${osname}X${osvers}" in
sunos*X4*)
   perllibs="$libs"
   ;;
*) case "$usedl" in
   $define|true|[yY]*)
     set X `echo " $libs " | sed -e 's@ -lndbm @ @' -e 's@ -lgdbm @ @' -e 's@ -lgdbm_compat @ @' -e 's@ -ldbm @
@' -e 's@ -ldb @ @'`
     shift
     perllibs="$*"
     ;;
   *) perllibs="$libs"
     ;;
   esac
   ;;
esac

?X: If the user has the cppstdin wrapper, perl.c will try to call
?X: CPPSTDIN, but that will point to a location in the build
?X: directory, not the installed version!.  Here, we'll just strip the
?X: name down to 'cppstdin',
 and rely on the fact that perl.c will
?X: then call SCRIPTDIR/cppstdin, but local things like 'make depend'
?X: will continue to work.
: Remove build directory name from cppstdin so it can be used from
: either the present location or the final installed location.
echo " "
: Get out of the UU directory to get correct path name.
cd ..
case "$cppstdin" in
`pwd`/cppstdin)
```

```
 echo "Stripping down cppstdin path name"
 cppstdin=cppstdin
 ;;
esac
cd UU

: end of configuration questions
echo " "
echo "End of configuration questions."
echo " "
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/End.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_chown.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_chown.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:14  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_chown: Inlibc
?MAKE: -pick add $@ %<
?S:d_chown:
?S: This variable conditionally defines the HAS_CHOWN symbol, which
?S: indicates to the C program that the chown() routine is available.
?S:.
?C:HAS_CHOWN :
?C: This symbol, if defined, indicates that the chown routine is
?C: available.
?C:.
?H:#$d_chown
 HAS_CHOWN  /**/
?H:.
?LINT:set d_chown
: see if chown exists
set chown d_chown
```

eval $inlibc

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_chown.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Loc.U,v $
?RCS: Revision 3.0.1.10  1997/02/28  15:04:16  ram
?RCS: patch61: allow users to specify paths on the command line
?RCS: patch61: will now substitute cp for ln if not supported
?RCS:
?RCS: Revision 3.0.1.9  1995/09/25  09:11:24  ram
?RCS: patch59: commented the purpose of the #un-def directive
?RCS: patch59: abort Configure run when mandatory command is missing
?RCS:
?RCS: Revision 3.0.1.8  1995/07/25  13:40:40  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.7
  1995/01/11  15:13:37  ram
?RCS: patch45: protected "sh -c" within backquotes for Linux and SGI
?RCS: patch45: added path lookup for the 'comm' program
?RCS:
?RCS: Revision 3.0.1.6  1994/10/29  15:56:14  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: be careful and guard against wildcard searching (ADO)
?RCS:
?RCS: Revision 3.0.1.5  1994/06/20  06:54:55  ram
?RCS: patch30: now locates find
?RCS:
?RCS: Revision 3.0.1.4  1994/05/13  15:18:15  ram
?RCS: patch27: added byacc to the trylist (ADO)
?RCS: patch27: lint lines reformatted (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/01/24  14:01:44  ram
?RCS: patch16: added metalint hint on changed PATH variable
?RCS:
```

```
?RCS: Revision 3.0.1.2  1993/12/15  08:16:52  ram
?RCS: patch15: now set _test variable when test is built-in
?RCS: patch15: fixed rare cases where echo is not needed
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  15:47:13  ram
?RCS: patch10: test program not always in /bin/test (WAD)
?RCS:
?RCS: Revision
 3.0  1993/08/18  12:05:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script "loc" which can be used to find out
?X: where in a list of directories something is.  It then uses loc to
?X: determine the location of commonly used programs.  It leaves loc sitting
?X: around for other Configure units to use, but arranges for its demise
?X: at the end of Configure.
?X:
?X: To add a new program to find, add it both to the ?MAKE: line and to either
?X: the loclist or trylist variable.
?X:
?X: I put startsh at the end of the dependency list, in order to avoid the
?X: loading of the spitshell unit before the instructions.
?X:
?MAKE:Loc awk ar bash bison byacc cat chgrp chmod chown \
 comm compress cp cpio cpp csh date echo egrep emacs expr find flex \
 gmake gzip grep inews ksh less line lint ln lp lpr ls mail mailx \
 make mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \
 shar sleep smail sort submit tail tar tbl tee test touch tr troff
 \
 uname uniq uuname vi zcat zip:  eunicefix n c startsh Instruct Warn
?MAKE: -pick weed $@ %<
?LINT:describe awk ar bash bison byacc cat chgrp chmod chown \
 comm compress cp cpio cpp csh date echo egrep emacs expr find flex \
 gmake gzip grep inews ksh less line lint ln lp lpr ls mail mailx \
 make mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \
 shar sleep smail sort submit tail tar tbl tee test touch tr troff \
 uname uniq uuname vi zcat zip
?V::pth loclist trylist
?F:./loc
?T:thisthing thing xxx dir file say DJGPP
?T:_test _grep _cp _gmake _egrep _ln _make dflt
?LINT: change PATH
: find out where common programs are
echo " "
echo "Locating common programs..." >&4
cat <<EOSC >loc
$startsh
```

```
case \$# in
0) exit 1;;
esac
thing=\$1
shift
dflt=\$1
shift
for dir in \$*; do
 case "\$thing" in
 .)
 if test -d \$dir/\$thing; then
  echo \$dir
  exit 0
 fi
 ;;
 *)
?X: Be careful in case thing includes wildcards that might expand to multiple
?X: files.  Choose the last one.
  This happens when searching for shared
?X: libraries with version numbers.  How to choose which one we want is
?X: probably an insoluble problem, in general.
?X: Some folks leave things like libc.so.orig around w/o read
?X: permission.  A -r test would handle that, but since ./loc is
?X: also used to find executables (which are installed w/o read
?X: permission on SCO ODT 3.0, we can't include the -r test.
 for thisthing in \$dir/\$thing; do
  : just loop through to pick last item
 done
 if test -f \$thisthing; then
  echo \$thisthing
  exit 0
 elif test -f \$thisthing$_exe; then
  echo \$thisthing
  exit 0
 elif test -f \$dir/\$thing.exe; then
  if test -n "$DJGPP"; then
   echo \$dir/\$thing.exe
  else
   : on Eunice apparently
   echo \$dir/\$thing
  fi
  exit 0
 fi
 ;;
 esac
done
echo \$dflt
exit 1
```

```
EOSC
chmod +x loc
$eunicefix loc
loclist="
?awk:awk
?cat:cat
?chgrp:chgrp
?chmod:chmod
?chown:chown
?comm:comm
?cp:cp
?echo:echo
?expr:expr
?find:find
?grep:grep
?ls:ls
?mkdir:mkdir
?mv:mv
?rm:rm
?sed:sed
?sleep:sleep
?sort:sort
?tail:tail
?touch:touch
?tr:tr
?uniq:uniq
"
trylist="
?Mcc:Mcc
?ar:ar
?bash:bash
?bison:bison
?byacc:byacc
?compress:compress
?cpio:cpio
?cpp:cpp
?csh:csh
?date:date
?egrep:egrep
?emacs:emacs
?flex:flex
?gmake:gmake
?gzip:gzip
?inews:inews
?ksh:ksh
?less:less
?line:line
?lint:lint
```

```
?ln:ln
?lp:lp
?lpr:lpr
?mail:mail
?mailx:mailx
?make:make
?more:more
?nm:nm
?nroff:nroff
?perl:perl
?pg:pg
?pmake:pmake
?pr:pr
?rmail:rmail
?sendmail:sendmail
?shar:shar
?smail:smail
?submit:submit
?tar:tar
?tbl:tbl
?tee:tee
?test:test
?troff:troff
?uname:uname
?uuname:uuname
?vi:vi
?zcat:zcat
?zip:zip
"
?LINT:set
 awk ar bash bison byacc cat chgrp chmod chown \
 comm compress cp cpio cpp csh date echo emacs expr find flex \
 gmake gzip grep inews ksh less line lint lp lpr ls mail mailx \
 mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \
 shar sleep smail sort submit tail tar tbl tee touch tr troff \
 uname uniq uuname vi zcat zip
pth=`echo $PATH | sed
 -e "s/$p_/ /g"`
pth="$pth /lib /usr/lib"
for file in $loclist; do
?X:
?X: Allow them to -Dmake=pmake on the command line for instance...
?X: If the file is not fully qualified, as in -Dmake=pmake, then we
?X: look the for the specified command (pmake here). If they say
?X: -Dmake=/sbin/make for instance, then we make sure the file
?X: exists, or we die...
?X:
 eval xxx=\$$file
```

```
 case "$xxx" in
 /*|?:[\\/]*)
  if test -f "$xxx"; then
   : ok
  else
   ./warn "no $xxx -- ignoring your setting for $file."
   xxx=`./loc $file $file $pth`
  fi
  ;;
 ") xxx=`./loc $file $file $pth`;;
 *) xxx=`./loc $xxx $xxx $pth`;;
 esac
 eval $file=$xxx$_exe
 eval _$file=$xxx
 case "$xxx" in
 /*)
  echo $file is in $xxx.
  ;;
?X: Under OS/2, we have PC-like paths
 ?:[\\/]*)
  echo $file is in $xxx.
  ;;
 *)
  echo "I don't know where '$file' is, and my life depends on it." >&4
  echo "Go find a public domain implementation or fix your PATH setting!" >&4
  exit 1
  ;;
 esac
done
echo " "
echo "Don't worry
 if any of the following aren't found..."
say=offhand
for file in $trylist; do
?X: Allow them to -Dmake=pmake on the command line for instance (see above)
 eval xxx=\$$file
 case "$xxx" in
 /*|?:[\\/]*)
  if test -f "$xxx"; then
   : ok
  else
   ./warn "no $xxx -- ignoring your setting for $file."
   xxx=`./loc $file $file $pth`
  fi
  ;;
 ") xxx=`./loc $file $file $pth`;;
 *) xxx=`./loc $xxx $xxx $pth`;;
 esac
```

```
 eval $file=$xxx$_exe
 eval _$file=$xxx
 case "$xxx" in
 /*)
  echo $file is in $xxx.
  ;;
?X: Under OS/2, we have PC-like paths
 ?:[\\/]*)
  echo $file is in $xxx.
  ;;
 *)
  echo "I don't see $file out there, $say."
  say=either
  ;;
 esac
done
case "$egrep" in
egrep)
 echo "Substituting grep for egrep."
 egrep=$grep
 _egrep=$_grep
 ;;
esac
@if ln
case "$ln" in
ln)
 echo "Substituting cp for ln."
 ln=$cp
 _ln=$_cp
 ;;
esac
@end
@if make || gmake
case "$make" in
make)
 case "$gmake" in
 gmake)
 echo "I can't find make or gmake, and my life depends on it." >&4
 echo "Go find a
 public domain implementation or fix your PATH setting!" >&4
 exit 1
 ;;
 esac
 ;;
esac
case "$gmake" in
gmake) ;;
*) # We can't have osname yet.
```

```
 if test -f "/system/gnu_library/bin/ar.pm"; then # Stratus VOS
  # Assume that gmake, if found, is definitely GNU make
  # and prefer it over the system make.
  echo "Substituting gmake for make."
  make=$gmake
  _make=$_gmake
 fi
 ;;
esac
@end
case "$test" in
test)
 echo "Hopefully test is built into your sh."
 ;;
*)
 if `sh -c "PATH= test true" >/dev/null 2>&1`; then
  echo "Using the test built into your sh."
?X:
?X: We need to set both test and _test, since Oldconfig.U will use the _test
?X: value to systematically restore computed paths, which may be wrong if
?X: we choose to load an old config.sh generated on another platform.
?X:
  test=test
  _test=test
 fi
 ;;
esac
?LINT:change n c
case "$echo" in
echo)
 echo "Hopefully echo is built into your sh."
 ;;
?X: For those rare cases where we don't need $echo...
") ;;
*)
 echo " "
echo "Checking
 compatibility between $echo and builtin echo (if any)..." >&4
 $echo $n "hi there$c" >foo1
 echo $n "hi there$c" >foo2
 if cmp foo1 foo2 >/dev/null 2>&1; then
  echo "They are compatible.  In fact, they may be identical."
 else
  case "$n" in
  '-n') n=" c='\c';;
  *) n='-n' c=";;
  esac
  cat <<FOO
```

```
They are not compatible!  You are probably running ksh on a non-USG system.
I'll have to use $echo instead of the builtin, since Bourne shell doesn't
have echo built in and we may have to run some Bourne shell scripts.  That
means I'll have to use '$n$c' to suppress newlines now.  Life is ridiculous.

FOO
  $echo $n "The star should be here-->$c"
  $echo "*"
 fi
 $rm -f foo1 foo2
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Loc.U
No license file was found, but licenses were detected in source scan.

```
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:gidsign: Myread Typedef gidtype Compile run
?MAKE: -pick add $@ %<
?S:gidsign:
?S: This variable contains the signedness of a gidtype.
?S: 1 for unsigned, -1 for signed.
?S:.
?C:Gid_t_sign:
?C: This symbol holds the signedness of a Gid_t.
?C: 1 for unsigned, -1 for signed.
?C:.
?H:#define Gid_t_sign $gidsign  /* GID sign */
?H:.
?T:yyy zzz
?F:!try
: Check if GID is signed
echo " "
case "$gidtype" in
*_t) zzz="$gidtype" ;;
*)   zzz="gid"  ;;
esac
echo "Checking the sign of $zzz..." >&4
```

```
cat > try.c <<EOCP
#include <sys/types.h>
#include
 <stdio.h>
int main() {
 $gidtype foo = -1;
 if (foo < 0)
  printf("-1\n");
 else
  printf("1\n");
}
EOCP
set try
if eval $compile; then
 yyy=`$run ./try`
 case "$yyy" in
 ") gidsign=1
  echo "(I can't execute the test program--guessing unsigned.)" >&4
  ;;
 *) gidsign=$yyy
  case "$gidsign" in
   1) echo "Your $zzz is unsigned." ;;
  -1) echo "Your $zzz is signed."   ;;
  esac
  ;;
 esac
else
 gidsign=1
 echo "(I can't compile the test program--guessing unsigned.)" >&4
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/gidsign.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_systypes.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_systypes.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:41  ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Look wether <sys/types.h> needs to be included.
?X:
?MAKE:i_systypes: Inhdr
?MAKE: -pick add $@ %<
?S:i_systypes:
?S: This variable conditionally defines the I_SYS_TYPES symbol,
?S: and indicates whether a C program should include <sys/types.h>.
?S:.
?C:I_SYS_TYPES (I_SYSTYPES):
?C: This symbol, if defined, indicates to the C program
 that it should
?C: include <sys/types.h>.
?C:.
?H:#$i_systypes I_SYS_TYPES  /**/
?H:.
?LINT:set i_systypes
: see if sys/types.h has to be included
set sys/types.h i_systypes
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_systypes.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_mkfifo.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_mkfifo.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:14:17  ram
?RCS: patch36: created by ADO
?RCS:
?RCS:
?MAKE:d_mkfifo: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkfifo:
```

```
?S: This variable conditionally defines the HAS_MKFIFO symbol, which
?S: indicates to the C program that the mkfifo() routine is available.
?S:.
?C:HAS_MKFIFO :
?C: This symbol, if defined, indicates that the mkfifo
 routine is
?C: available to create FIFOs. Otherwise, mknod should be able to
?C: do it for you. However, if mkfifo is there, mknod might require
?C: super-user privileges which mkfifo will not.
?C:.
?H:#$d_mkfifo HAS_MKFIFO  /**/
?H:.
?LINT:set d_mkfifo
: see if mkfifo exists
set mkfifo d_mkfifo
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_mkfifo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_ustat: Inlibc
?MAKE: -pick add $@ %<
?S:d_ustat:
?S: This variable conditionally defines HAS_USTAT if ustat() is
?S: available to query file system statistics by dev_t.
?S:.
?C:HAS_USTAT:
?C: This symbol, if defined, indicates that the ustat system call is
?C: available to query file system statistics by dev_t.
?C:.
?H:#$d_ustat HAS_USTAT  /**/
?H:.
?LINT:set d_ustat
: see if ustat exists
set ustat d_ustat
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_ustat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_llround: Inlibc
?MAKE: -pick add $@ %<
?S:d_llround:
?S: This variable conditionally defines the HAS_LLROUND symbol, which
?S: indicates to the C program that the llround() routine is available
?S: to return the long long value nearest to x.
?S:.
?C:HAS_LLROUND:
?C: This symbol, if defined, indicates that the llround routine is
?C: available to return the nearest long long value.
?C:.
?H:#$d_llround HAS_LLROUND  /**/
?H:.
?LINT:set d_llround
: see if llround exists
set llround d_llround
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_llround.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: mansrc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: mansrc.U,v $
?RCS: Revision 3.0.1.9  1997/02/28  16:12:03  ram
?RCS: patch61: don't ask for AFS when they choose to not install pages
?RCS:
?RCS: Revision 3.0.1.8  1995/09/25  09:16:58  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
```

```
?RCS:
?RCS: Revision 3.0.1.7  1995/02/15  14:15:31  ram
?RCS: patch51: was mistakenly duplicating /usr/local/man/man1 (ADO)
?RCS: patch51: added /opt/man/man1 to the lookpath (ADO)
?RCS:
?RCS: Revision
 3.0.1.6  1995/01/30  14:39:34  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:32:25  ram
?RCS: patch45: can now use Loc variables since path stripping is deferred
?RCS:
?RCS: Revision 3.0.1.4  1994/08/29  16:30:38  ram
?RCS: patch32: now uses installation prefix for default setting
?RCS:
?RCS: Revision 3.0.1.3  1994/05/06  15:11:10  ram
?RCS: patch23: added lint hint, assuring that nroff is used
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:14:39  ram
?RCS: patch16: now uses _nroff in case user asked for portability
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:09:31  ram
?RCS: patch10: allows for L1 man page extension (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:mansrc mansrcexp manext installmansrc: afs cat nroff Loc Oldconfig \
 sysman spackage test Getfile Prefixit prefixexp Prefixup
?MAKE: -pick add $@ %<
?Y:TOP
?S:mansrc:
?S: This variable
 contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?S:mansrcexp:
?S: This variable is the same as the mansrc variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?S:installmansrc:
?S: This variable is really the same as mansrcexp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: mansrcexp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
```

```
?S:manext:
?S: This variable contains the extension that the manual page should
?S: have: one of 'n', 'l', or '1'.  The Makefile must supply the '.'.
?S: See mansrc.
?S:.
?T:lookpath
: determine where manual pages go
set mansrc mansrc none
eval $prefixit
$cat <<EOM

$spackage has manual
 pages available in source form.
EOM
case "$nroff" in
nroff)
 echo "However, you don't have nroff, so they're probably useless to you."
 case "$mansrc" in
 ") mansrc="none";;
 esac;;
esac
echo "If you don't want the manual sources installed, answer 'none'."
case "$mansrc" in
")
 lookpath="$prefixexp/share/man/man1 $prefixexp/man/man1"
 lookpath="$lookpath $prefixexp/man/u_man/man1 $prefixexp/man/l_man/man1"
 lookpath="$lookpath /usr/local/man/man1 /opt/man/man1 /usr/man/manl"
 lookpath="$lookpath /usr/share/man/man1 /usr/local/share/man/man1"
 lookpath="$lookpath /usr/man/local/man1 /usr/man/l_man/man1"
 lookpath="$lookpath /usr/local/man/u_man/man1 /usr/local/man/l_man/man1"
 lookpath="$lookpath /usr/man/man.L"
 mansrc=`./loc . $prefixexp/man/man1 $lookpath`
 if $test -d "$mansrc"; then
  dflt="$mansrc"
 else
  dflt="$sysman"
 fi
 set dflt
 eval $prefixup
 ;;
' ') dflt=none;;
*)  dflt="$mansrc"
 ;;
esac
echo " "
fn=dn~
rp='Where do the manual pages (source) go?'
. ./getfile
```

```
if test
 "X$mansrcexp" != "X$ansexp"; then
 installmansrc=''
fi
mansrc="$ans"
mansrcexp="$ansexp"
case "$mansrc" in
'') mansrc=' '
 installmansrc='';;
esac
if $afs && $test "$mansrc"; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
manual pages reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installmansrc" in
 '') dflt=`echo $mansrcexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installmansrc";;
 esac
 fn=de~
 rp='Where will man pages be installed?'
 . ./getfile
 installmansrc="$ans"
else
 installmansrc="$mansrcexp"
fi

case "$mansrc" in
' ') manext='0';;
*l) manext=l;;
*n) manext=n;;
*o) manext=l;;
*p) manext=n;;
*C) manext=C;;
*L) manext=L;;
*L1) manext=L1;;
*) manext=1;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/mansrc.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Warn_v7EXT.U 1 2006-08-24 12:32:52Z rmanfredi $

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Warn_v7EXT.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:01:42  ram
?RCS: patch36: call ./v7 explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit issues warnings to V7 sites that they are living dangerously.
?X: This unit needs to get mentioned in End.U to get included.
?X:
?MAKE:Warn_v7EXT: package Guess
?MAKE: -pick add $@ %<
: Warnings
if ./v7;
 then
 cat <<EOM

NOTE: the V7 compiler may ignore some #undefs that $package uses.  If so,
you may get messages about redefining EXT.  Some V7 compilers also have
difficulties with #defines near buffer boundaries, so beware.  You may have
to play with the spacing in some .h files, believe it or not.
EOM
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Warn_v7EXT.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:sysroot: Head
?MAKE: -pick add $@ %<
?S:sysroot:
?S: This variable is empty unless supplied by the Configure user.
```

```
?S: It can contain a path to an alternative root directory, under which
?S: headers and libraries for the compilation target can be found. This
?S: is generally used when cross-compiling using a gcc-like compiler.
?S:.
?LINT:extern cc
?LINT:extern cppflags
?LINT:change cppflags
?LINT:extern ccflags
?LINT:change ccflags
?LINT:extern ldflags
?LINT:change ldflags
?LINT:extern cccdlflags
?X: _sysroot is later used in ccflags, but we do not want it in config.sh
?T:var xxx path _sysroot
: Set 'sysroot' to change the logical root directory to your headers and libraries see man gcc
: This is primarily meant for cross-compile environments, and
 may fail to be useful in other cases
if test "X$sysroot" = X; then
   sysroot=""
else
   case "$cc" in
 *gcc*|*g++*)
     echo "Using $sysroot to find your headers and libraries, adding to ccflags"
     # _sysroot is used in places where we need --sysroot=foo
     # but using the rest of the flags could cause issues.
     _sysroot="--sysroot=$sysroot";
     case "$ccflags" in
  *sysroot*) ;;
  'undef'|*)
  ccflags="$ccflags $_sysroot"
     esac
     case "$ldflags" in
  *sysroot*) ;;
  'undef'|*)
  ldflags="$ldflags $_sysroot"
     esac
     case "$cppflags" in
  *sysroot*) ;;
  'undef'|*)
  cppflags="$cppflags $_sysroot"
     esac
     # lddlflags updated below in lddlflags section;
     # same with cccdlflags
     ;;
   esac

   # Adjust some defaults to also use $sysroot
   for var in xlibpth loclibpth locincpth glibpth; do
```

```
 eval xxx=\$$var
 eval $var=''
 for path in $xxx; do
     eval $var=\"\$$var $sysroot$path\"
 done
   done

fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/Sysroot.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Begin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Begin.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  14:56:35  ram
?RCS: patch61: added Extractall dependency
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:25:08  ram
?RCS: patch49: avoid an empty rmlist: systems might choke on it (WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/31  09:32:20  ram
?RCS: patch44: created
?RCS:
?X:
?X: This file comes after option processing had been done and after all
?X: the default values have been set up. It marks the beginning
 of questions.
?X: It is important that Options be listed *after* Myinit to ensure that the
?X: default initializations performed by Init and Myinit will not clobber
?X: any setting done on the command line via -D or -U.
?X:
?MAKE:Begin: Myinit Options package Extractall
?MAKE: -pick add $@ %<
: Eunice requires " " instead of "", can you believe it
echo " "
: Here we go...
echo "Beginning of configuration questions for $package."
```

```
?X: Make sure the rm below is given a non-empty list for some systems.
?X: This is run only when within the UU directory, hence we can safely
?X: attempt to rm a non-existent 'X' file...
trap 'echo " "; test -d ../UU && rm -rf X $rmlist; exit 1' 1 2 3 15
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Begin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_const.U,v $
?RCS: Revision 3.0.1.1  1993/11/10  17:33:41  ram
?RCS: patch14: stronger const check with added typedef for MIPS cc
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_const: cat rm cc ccflags Setvar
?MAKE: -pick add $@ %<
?S:d_const:
?S: This variable conditionally defines the HASCONST symbol, which
?S: indicates to the C program that this C compiler knows about the
?S: const type.
?S:.
?C:HASCONST ~ %<:
?C: This symbol,
 if defined, indicates that this C compiler knows about
?C: the const type. There is no need to actually test for that symbol
?C: within your programs. The mere use of the "const" keyword will
?C: trigger the necessary tests.
?C:.
?H:?%<:#$d_const HASCONST /**/
?H:?%<:#ifndef HASCONST
?H:?%<:#define const
?H:?%<:#endif
?H:.
?W:%<:const
```

```
?F:const.c const.o
?LINT:set d_const
?LINT:known const
: check for const keyword
echo " "
echo 'Checking to see if your C compiler knows about "const"...' >&4
$cat >const.c <<'EOCP'
?X: mmcg@bruce.cs.monash.edu.au reports that:
?X: The MIPS cc compiler (V2.10) on a dec 5000 running Ultrix 4.2A
?X: pretends to understand `const' but doesn't - it'll also fail to
?X: handle typedefs properly if they're declared const. To guard
?X: against this, boost up the test by using an explicit typedef...
typedef struct spug { int drokk; } spug;
int main()
{
 const char *foo;
 const spug y;
}
EOCP
if $cc -c $ccflags const.c >/dev/null 2>&1 ; then
 val="$define"
 echo "Yup,
 it does."
else
 val="$undef"
 echo "Nope, it doesn't."
fi
set d_const
eval $setvar
$rm -f const.c const.o
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_const.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: usenm.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:26:40  ram
```

```
?RCS: patch61: don't use nm with the GNU C library
?RCS: patch61: added support for Linux shared libs
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:usenm runnm nm_opt nm_so_opt: cat test Myread Oldconfig grep \
 d_gnulibc nm egrep rsrc osname Guess
?MAKE: -pick add $@ %<
?S:usenm:
?S: This variable contains 'true' or 'false' depending whether the
?S: nm extraction is wanted
 or not.
?S:.
?S:runnm:
?S: This variable contains 'true' or 'false' depending whether the
?S: nm extraction should be performed or not, according to the value
?S: of usenm and the flags on the Configure command line.
?S:.
?S:nm_opt:
?S: This variable holds the options that may be necessary for nm.
?S:.
?S:nm_so_opt:
?S: This variable holds the options that may be necessary for nm
?S: to work on a shared library but that can not be used on an
?S: archive library.  Currently, this is only used by Linux, where
?S: nm --dynamic is *required* to get symbols from an ELF library which
?S: has been stripped, but nm --dynamic is *fatal* on an archive library.
?S: Maybe Linux should just always set usenm=false.
?S:.
: see if nm is to be used to determine whether a symbol is defined or not
?X: If there is enough inquiries, it might be worth to wait for the nm
?X: extraction. Otherwise, the C compilations might be a better deal.
?X:
?X: Don't bother if we're using GNU libc -- skimo
case "$usenm"
 in
")
 dflt="
 case "$d_gnulibc" in
 "$define")
  echo " "
  echo "$nm probably won't work on the GNU C Library." >&4
  dflt=n
  ;;
 esac
 case "$dflt" in
 ")
```

```
  if $test "$osname" = aix -a ! -f /lib/syscalls.exp; then
   echo " "
   echo "Whoops!  This is an AIX system without /lib/syscalls.exp!" >&4
   echo "'nm' won't be sufficient on this system." >&4
   dflt=n
  fi
  ;;
 esac
 case "$dflt" in
 ")
  if ./gnu; then
   echo " "
   echo "Hmm...  A GNU system without a GNU C Library?  Weird..." >&4
   dflt=n
  else
   dflt=`$egrep 'inlibc|csym' $rsrc/Configure | wc -l 2>/dev/null`
   if $test $dflt -gt 20; then
    dflt=y
   else
    dflt=n
   fi
  fi
  ;;
 esac
 ;;
*)
 case "$usenm" in
 true|$define) dflt=y;;
 *) dflt=n;;
 esac
 ;;
esac
$cat <<EOM

I can use $nm to extract the symbols from your C libraries. This
is a time consuming task which may generate huge output on the disk (up
to 3 megabytes) but that should make the symbols extraction faster. The
alternative is to skip the
 'nm' extraction part and to compile a small
test program instead to determine whether each symbol is present. If
you have a fast C compiler and/or if your 'nm' output cannot be parsed,
this may be the best solution.

EOM
rp='Shall I use nm to extract C symbols from the libraries?'
. ./myread
case "$ans" in
[Nn]*) usenm=false;;
```

```
*) usenm=true;;
esac

?X: Name extraction is to be run if 'nm' usage is wanted and if no -r flag
?X: was provided to configure (in which case we simply re-use the previous
?X: values).
runnm=$usenm
case "$reuseval" in
true) runnm=false;;
esac

: nm options which may be necessary
case "$nm_opt" in
") if $test -f /mach_boot; then
  nm_opt="  # Mach
 elif $test -d /usr/ccs/lib; then
  nm_opt='-p'  # Solaris (and SunOS?)
 elif $test -f /dgux; then
  nm_opt='-p'  # DG-UX
 elif $test -f /lib64/rld; then
  nm_opt='-p'  # 64-bit Irix
 else
  nm_opt="
 fi;;
esac

?X: nm options which may be necessary for shared libraries but illegal
?X: for archive libraries.  Thank you,
 Linux.
case "$nm_so_opt" in
") case "$osname" in
 *linux*)
  if $nm --help | $grep 'dynamic' > /dev/null 2>&1; then
   nm_so_opt='--dynamic'
  fi
  ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/usenm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getgrps.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getgrps.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getgrps: Inlibc
?MAKE: -pick add $@ %<
?S:d_getgrps:
?S: This variable conditionally defines the HAS_GETGROUPS symbol, which
?S: indicates to the C program that the getgroups() routine is available
?S: to get the list of process groups.
?S:.
?C:HAS_GETGROUPS (GETGROUPS):
?C: This symbol, if defined, indicates that the getgroups()
 routine is
?C: available to get the list of process groups.  If unavailable, multiple
?C: groups are probably not supported.
?C:.
?H:#$d_getgrps HAS_GETGROUPS  /**/
?H:.
?LINT:set d_getgrps
: see if getgroups exists
set getgroups d_getgrps
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getgrps.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_malloc.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:21  ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_malloc: Inhdr
?MAKE: -pick add $@ %<
?S:i_malloc:
?S: This variable conditionally defines the I_MALLOC symbol, and indicates
?S: whether a C program should include <malloc.h>.
?S:.
?C:I_MALLOC:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <malloc.h>.
?C:.
?H:#$i_malloc I_MALLOC  /**/
?H:.
?LINT:set i_malloc
: see if this is a malloc.h system
set
 malloc.h i_malloc
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_malloc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_portable.U,v $
?RCS: Revision 3.0.1.2  1995/01/11  15:28:52  ram
?RCS: patch45: executable path stripping moved to the end in Config_sh.U
?RCS:
?RCS: Revision 3.0.1.1  1993/12/15  08:21:17  ram
?RCS: patch15: did not strip variables properly when needed
?RCS: patch15: now also strips down variables from trylist
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The Loc unit is wanted to get the definition of all the locating variables.
```

```
?X:
?MAKE:d_portable:
 cat Loc Myread Oldconfig
?MAKE: -pick add $@ %<
?S:d_portable:
?S: This variable conditionally defines the PORTABLE symbol, which
?S: indicates to the C program that it should not assume that it is
?S: running on the machine it was compiled on.
?S:.
?C:PORTABLE:
?C: This symbol, if defined, indicates to the C program that it should
?C: not assume that it is running on the machine it was compiled on.
?C: The program should be prepared to look up the host name, translate
?C: generic filenames, use PATH, etc.
?C:.
?H:#$d_portable PORTABLE /**/
?H:.
?D:d_portable="
: decide how portable to be
case "$d_portable" in
"$define") dflt=y;;
*) dflt=n;;
esac
$cat <<'EOH'

I can set things up so that your shell scripts and binaries are more portable,
at what may be a noticable cost in performance.  In particular, if you
ask to be portable, the following happens:

    1) Shell scripts will rely on the PATH variable rather than using
 the paths derived above.
    2) ~username
 interpretations will be done at run time rather than
 by Configure.
@if PHOSTNAME
    3) The system name will be determined at run time, if at all possible.
@end

EOH
rp="Do you expect to run these scripts and binaries on multiple machines?"
. ./myread
case "$ans" in
 y*) d_portable="$define"
?X:
?X: Paths will be stripped down (/usr/bin/vi -> vi) in Config_sh.U if needed.
?X:
 ;;
 *)  d_portable="$undef" ;;
```

```
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_portable.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_syspoll.U 15 2006-08-30 18:21:51Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:i_syspoll: Inhdr
?MAKE: -pick add $@ %<
?S:i_syspoll:
?S: This variable conditionally defines the I_SYS_POLL symbol, which
?S: indicates to the C program that it should include <sys/poll.h>.
?S:.
?C:I_SYS_POLL:
?C: This symbol, if defined, indicates that the program may include
?C: <sys/poll.h>.  When I_POLL is also defined, it's probably safest
?C: to only include <poll.h>.
?C:.
?H:#$i_syspoll I_SYS_POLL /**/
?H:.
?LINT:set i_syspoll
: see if there is
 a sys/poll.h file
set sys/poll.h i_syspoll
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_syspoll.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getopt.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getopt.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getopt: Inlibc
?MAKE: -pick add $@ %<
?S:d_getopt:
?S: This variable conditionally defines the HAS_GETOPT symbol, which
?S: indicates that the getopt() routine exists.  The getopt() routine
?S: parses command line options in a standard fashion.
?S:.
?C:HAS_GETOPT (GETOPT):
?C: This symbol, if defined, indicates that the getopt() routine
 exists.
?C:.
?H:#$d_getopt HAS_GETOPT  /**/
?H:.
?LINT:set d_getopt
: see if getopt exists
set getopt d_getopt
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getopt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_dbminitproto: Hasproto i_dbm
?MAKE: -pick add $@ %<
?S:d_dbminitproto:
?S: This variable conditionally defines the HAS_DBMINIT_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the dbminit() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
```

```
?C:HAS_DBMINIT_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the dbminit() function.  Otherwise, it is up
?C: to the program to supply one.  A good guess is
?C:  extern
 int dbminit(char *);
?C:.
?H:#$d_dbminitproto HAS_DBMINIT_PROTO /**/
?H:.
?LINT:set d_dbminitproto
: see if prototype for dbminit is available
echo " "
set d_dbminitproto dbminit $i_dbm dbm.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_dbminitproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: man1dir.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:10:29  ram
?RCS: patch61: created
?RCS:
?X:
?X: This was originally specific to perl5.  Since perl5 has man pages that
?X: go in both man1/ and man3/ directories, we need both man1dir
?X: and man3dir.  This unit is basically dist's mansrc.U with
?X: man1 used instead of man everywhere.
?X:
?MAKE:man1dir man1direxp man1ext installman1dir: afs cat nroff Loc Oldconfig \
 spackage test Getfile Prefixit prefixexp
 Prefixup sysman Myread
?MAKE: -pick add $@ %<
?Y:TOP
?S:man1dir:
?S: This variable contains the name of the directory in which manual
```

```
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?S:man1direxp:
?S: This variable is the same as the man1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?S:installman1dir:
?S: This variable is really the same as man1direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man1direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:man1ext:
?S: This variable contains the extension that the manual page should
?S: have: one of 'n', 'l', or '1'.  The Makefile must supply the '.'.
?S: See man1dir.
?S:.
?T:lookpath
: determine
 where manual pages go
set man1dir man1dir none
eval $prefixit
$cat <<EOM

$spackage has manual pages available in source form.
EOM
case "$nroff" in
nroff)
 echo "However, you don't have nroff, so they're probably useless to you."
 case "$man1dir" in
 ") man1dir="none";;
 esac;;
esac
echo "If you don't want the manual sources installed, answer 'none'."
case "$man1dir" in
' ') dflt=none
 ;;
")
 lookpath="$prefixexp/man/man1 $prefixexp/man/l_man/man1"
 lookpath="$lookpath $prefixexp/man/p_man/man1"
 lookpath="$lookpath $prefixexp/man/u_man/man1"
 lookpath="$lookpath $prefixexp/man/man.1"
?X: Experience has shown people expect man1dir to be under prefix,
?X: so we now always put it there.  Users who want other behavior
?X: can answer interactively or use a command line option.
?X: Does user have System V-style man paths.
```

```
 case "$sysman" in
 */?_man*) dflt=`./loc . $prefixexp/l_man/man1 $lookpath` ;;
 *) dflt=`./loc . $prefixexp/man/man1 $lookpath` ;;
 esac
 set dflt
 eval $prefixup
 ;;
*)
  dflt="$man1dir"
 ;;
esac
echo " "
fn=dn+~
rp="Where do the main $spackage manual pages (source) go?"
. ./getfile
if $test "X$man1direxp" != "X$ansexp"; then
 installman1dir=''
fi
man1dir="$ans"
man1direxp="$ansexp"
case "$man1dir" in
'') man1dir=' '
 installman1dir='';;
esac
if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
manual pages reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installman1dir" in
 '') dflt=`echo $man1direxp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installman1dir";;
 esac
 fn=de~
 rp='Where will man pages be installed?'
 . ./getfile
 installman1dir="$ans"
else
 installman1dir="$man1direxp"
fi

: What suffix to use on installed man pages

case "$man1dir" in
' ')
```

```
 man1ext='0'
 ;;
*)
 rp="What suffix should be used for the main $spackage man pages?"
 case "$man1ext" in
 ") case "$man1dir" in
  *1)  dflt=1 ;;
  *1p)
 dflt=1p ;;
  *1pm) dflt=1pm ;;
  *l) dflt=l;;
  *n) dflt=n;;
  *o) dflt=o;;
  *p) dflt=p;;
  *C) dflt=C;;
  *L) dflt=L;;
  *L1) dflt=L1;;
  *) dflt=1;;
  esac
  ;;
 *) dflt="$man1ext";;
 esac
 . ./myread
 man1ext="$ans"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/man1dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fchown.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_fchown.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_fchown: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_fchown:
?S: This variable conditionally defines the HAS_FCHOWN symbol, which
?S: indicates to the C program that the fchown() routine is available
?S: to change ownership of opened files.
?S:.
?C:HAS_FCHOWN (FCHOWN):
?C: This symbol, if defined, indicates that the fchown routine is available
?C: to
 change ownership of opened files.  If unavailable, use chown().
?C:.
?H:#$d_fchown HAS_FCHOWN  /**/
?H:.
?LINT:set d_fchown
: see if fchown exists
set fchown d_fchown
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_fchown.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_lseekproto: Hasproto i_systypes i_unistd
?MAKE: -pick add $@ %<
?S:d_lseekproto:
?S: This variable conditionally defines the HAS_LSEEK_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the lseek() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_LSEEK_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the lseek() function.  Otherwise, it is up
?C: to the program to supply one.  A good guess is
?C:  extern
 off_t lseek(int, off_t, int);
?C:.
?H:#$d_lseekproto HAS_LSEEK_PROTO /**/
```

```
?H:.
?LINT:set d_lseekproto
: see if prototype for lseek is available
echo " "
set d_lseekproto lseek $i_systypes sys/types.h $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/d_lseekproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_NeWS.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_NeWS.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_news d_news0 d_newshome d_textcan: test rm Myread Getfile
?MAKE: -pick add $@ %<
?S:d_news:
?S: Set if running NeWS 1.1
?S:.
?S:d_news0:
?S: Set if running NeWS 1.0
?S:.
?S:d_newshome:
?S: Path to the top directory of the NeWS structure.
?S:.
?S:d_textcan:
?S: Path to where the textcan.ps stuff is...
?S:.
?C:HAS_NEWS1_1 (NEWS1_1):
?C: This
 symbol defined if running NeWS 1.1.
?C:.
?C:HAS_NEWS1_0 (NEWS1_0):
?C: This symbol defined if running NeWS 1.0.
?C:.
?C:TEXTCAN:
```

```
?C: Tells path to where the textcan.ps stuff is...
?C:.
?H:#$d_news HAS_NEWS1_1     /**/
?H:#$d_news0 HAS_NEWS1_0     /**/
?H:#define TEXTCAN $d_textcan /**/
?H:.
?INIT:: default path for NeWS
?INIT:d_newshome="/usr/NeWS"
?INIT:
: Check to see what version of NeWS is being run?
cd ..
echo " "
echo "Now for the interesting stuff... Lets see what kind of NeWS"
echo "they grow round here...."
echo " "
dflt='y'
if $test -d $d_newshome; then
 d_newshome=`(cd $d_newshome ; /bin/pwd)`
 echo "Ah...found myself a NeWS in $d_newshome..."
 dflt='y'
 rp="Is this the NeWS you want your children to grow up with?"
 . UU/myread
fi
while $test $ans = "n"; do
dflt=$d_newshome
fn=d
rp="Path to NeWS you want:"
. UU/getfile
d_newshome=$ans

echo " "
if $test ! -d $d_newshome/lib; then
 echo "ARG!  No lib directory in $d_newshome!!!"
 : heavy medicine.  I wonder what the disease
 is...
 $rm -f kit*isdone
 $rm -rf UU
 : bye bye
 set -t; echo "Sorry... no NeWS is bad news..."
fi

if $test -r $d_newshome/lib/NeWS/colors.ps ; then
 echo 'Ahh... your running NeWS 1.1!  Boy... that makes stuff easy....'
 echo " "
 d_news="$define"
 d_news0="$undef"
 if $test -r $d_newshome/lib/NeWS/textcan.ps; then
  d_textcan=$d_newshome/lib/NeWS
```

```
  echo "The textcan.ps stuff seems to be in : $d_textcan"
 else
  d_textcan=$d_newshome/clientsrc/client/nterm
  if $test ! -r $d_textcan/textcan.ps; then
   d_news="$undef"
   d_news0="$define"
   echo 'Hmm... must have been fooled... gotta be NeWS 1.1 beta!'
  else
   echo "The textcan.ps stuff seems to be in : $d_textcan"
  fi
 fi
else
 echo 'snif... snif... I smell the dilapidated smell of NeWS 1.0..'
 echo 'Some things will not work under NeWS 1.0...'
 d_news="$undef"
 d_news0="$define"
fi
cd UU
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_NeWS.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: defeditor.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: defeditor.U,v $
?RCS: Revision 3.0.1.1  1995/01/11  15:30:16  ram
?RCS: patch45: can now use the 'vi' variable since path stripping is deferred
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:defeditor: Getfile Oldconfig Loc vi
?MAKE: -pick add $@ %<
?S:defeditor:
?S: This variable contains the eventual value of the DEFEDITOR symbol,
?S: which contains the name of the default editor.
?S:.
?C:DEFEDITOR:
```

```
?C: This
 symbol contains the full pathname of the default editor.
?C:.
?H:#define DEFEDITOR "$defeditor"  /**/
?H:.
: determine default editor
echo " "
case "$defeditor" in
")
 case "$vi" in
 */*) dflt="$vi";;
 *) dflt=/usr/ucb/vi;;
 esac
 ;;
*)  dflt="$defeditor"
 ;;
esac
fn=f/
rp="What is the default editor on your system?"
. ./getfile
defeditor="$ans"
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/defeditor.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ffs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_ffs.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_ffs: Inlibc
?MAKE: -pick add $@ %<
?S:d_ffs:
?S: This variable conditionally defines the HAS_FFS symbol, which
?S: indicates to the C program that the ffs() routine is available
?S: to find the first bit which is set in its integer argument.
?S:.
```

```
?C:HAS_FFS:
?C: This symbol, if defined, indicates that the ffs routine is available
?C: to
 find the first bit set in its argument.  If it's not available,
?C: roll your own.
?C:.
?H:#$d_ffs HAS_FFS  /**/
?H:.
?LINT:set d_ffs
: see if ffs exists
set ffs d_ffs
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_ffs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: doublesize.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:17:06  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:06  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:doublesize: cat rm_try Myread +cc +ccflags
?MAKE: -pick add $@ %<
?S:doublesize:
?S: This variable contains the value of the DOUBLESIZE symbol, which
?S: indicates to the C program how many bytes there are in a double.
?S:.
?C:DOUBLESIZE:
?C: This symbol contains the
 size of a double, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define DOUBLESIZE $doublesize  /**/
?H:.
```

```
?F:!try
: check for length of double
echo " "
case "$doublesize" in
")
 echo "Checking to see how big your double precision numbers are..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
 printf("%d\n", sizeof(double));
}
EOCP
 if $cc $ccflags -o try try.c >/dev/null 2>&1 ; then
  dflt=`./try`
 else
  dflt='8'
  echo "(I can't seem to compile the test program.  Guessing...)"
 fi
 ;;
*)
 dflt="$doublesize"
 ;;
esac
rp="What is the size of a double precision number (in bytes)?"
. ./myread
doublesize="$ans"
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/doublesize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpwuid_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getpwuid_r getpwuid_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_pwd extern_C
?MAKE: -pick add $@ %<
?S:d_getpwuid_r:
?S: This variable conditionally defines the HAS_GETPWUID_R symbol,
?S: which indicates to the C program that the getpwuid_r()
```

```
?S: routine is available.
?S:.
?S:getpwuid_r_proto:
?S: This variable encodes the prototype of getpwuid_r.
?S: It is zero if d_getpwuid_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getpwuid_r
?S: is defined.
?S:.
?C:HAS_GETPWUID_R:
?C: This symbol, if defined, indicates that the getpwuid_r routine
?C: is available to
 getpwuid re-entrantly.
?C:.
?C:GETPWUID_R_PROTO:
?C: This symbol encodes the prototype of getpwuid_r.
?C: It is zero if d_getpwuid_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getpwuid_r
?C: is defined.
?C:.
?H:#$d_getpwuid_r HAS_GETPWUID_R /**/
?H:#define GETPWUID_R_PROTO $getpwuid_r_proto /**/
?H:.
?T:try hdrs d_getpwuid_r_proto
: see if getpwuid_r exists
set getpwuid_r d_getpwuid_r
eval $inlibc
case "$d_getpwuid_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_pwd pwd.h"
 case "$d_getpwuid_r_proto:$usethreads" in
 ":define") d_getpwuid_r_proto=define
  set d_getpwuid_r_proto getpwuid_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getpwuid_r_proto" in
 define)
 case "$getpwuid_r_proto" in
 "|0) try='int getpwuid_r(uid_t, struct passwd*, char*, size_t, struct passwd**);'
 ./protochk "$extern_C $try" $hdrs && getpwuid_r_proto=I_TSBWR ;;
 esac
 case "$getpwuid_r_proto" in
 "|0) try='int getpwuid_r(uid_t, struct passwd*, char*, int,
 struct passwd**);'
 ./protochk "$extern_C $try" $hdrs && getpwuid_r_proto=I_TSBIR ;;
 esac
 case "$getpwuid_r_proto" in
 "|0) try='int getpwuid_r(uid_t, struct passwd*, char*, int);'
```

```
 ./protochk "$extern_C $try" $hdrs && getpwuid_r_proto=I_TSBI ;;
 esac
 case "$getpwuid_r_proto" in
"|0) try='struct passwd* getpwuid_r(uid_t, struct passwd*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getpwuid_r_proto=S_TSBI ;;
 esac
 case "$getpwuid_r_proto" in
"|0) d_getpwuid_r=undef
  getpwuid_r_proto=0
  echo "Disabling getpwuid_r, cannot determine prototype." >&4 ;;
* ) case "$getpwuid_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getpwuid_r_proto="REENTRANT_PROTO_$getpwuid_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getpwuid_r has no prototype, not using it." >&4 ;;
  esac
  d_getpwuid_r=undef
  getpwuid_r_proto=0
  ;;
 esac
 ;;
*) getpwuid_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getpwuid_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Cppsym.U,v $
?RCS: Revision 3.0.1.5  1995/05/12  11:59:11  ram
?RCS: patch54: split awk command onto two lines for older awks (ADO)
?RCS:
```

```
?RCS: Revision 3.0.1.4  1995/01/11  14:55:57  ram
?RCS: patch45: new cc vs. cpp symbol checking suggested by JHI
?RCS: patch45: added more cpp symbols (JHI)
?RCS:
?RCS: Revision 3.0.1.3  1994/10/29  15:51:32  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: new symbols ardent and titan (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20
  06:53:32  ram
?RCS: patch30: extended cpp symbol lookup list (JHI)
?RCS: patch30: renamed attrlist symbol into al for brevity
?RCS:
?RCS: Revision 3.0.1.1  1993/12/15  08:14:14  ram
?RCS: patch15: added new cpp symbols __bsdi__ and BSD_NET2
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script called Cppsym, which can be used to
?X: determine whether any in a list of symbols is defined by the C compilation
?X: chain (C preprocessor symbols plus C compiler native ones).
?X: It can determine the status of any symbol, though the symbols in $al
?X: are more easily determined.  If you want to add to $al you can do
?X: it in Myinit.U.
?X:
?MAKE:Cppsym ccsymbols cppsymbols cppccsymbols: run \
 eunicefix Guess awk cat tr sed sort rm startsh osname \
 +cc gccversion test comm uniq echo Options trnl \
 optimize ccflags ldflags libs
?MAKE: -pick add $@ %<
?S:ccsymbols:
?S: The variable contains the symbols
 defined by the C compiler alone.
?S: The symbols defined by cpp or by cc when it calls cpp are not in
?S: this list, see cppsymbols and cppccsymbols.
?S: The list is a space-separated list of symbol=value tokens.
?S:.
?S:cppsymbols:
?S: The variable contains the symbols defined by the C preprocessor
?S: alone.  The symbols defined by cc or by cc when it calls cpp are
?S: not in this list, see ccsymbols and cppccsymbols.
?S: The list is a space-separated list of symbol=value tokens.
?S:.
?S:cppccsymbols:
?S: The variable contains the symbols defined by the C compiler
?S: when it calls cpp.  The symbols defined by the cc alone or cpp
```

```
?S: alone are not in this list, see ccsymbols and cppsymbols.
?S: The list is a space-separated list of symbol=value tokens.
?S:.
?T:also symbols i postprocess_cc_v flags
?F:./Cppsym
?F:!Cppsym.true !Cppsym.know !ccsym.com !ccsym.cpp !ccsym.own
: determine known pre-processor and compiler symbols
echo " "
$echo "Guessing which symbols your C compiler and preprocessor
 define..." >&4
?X:
?X: The symbol list is in alpha order for ease of maintenance...
?X:
?X: Lots of new symbols (mostly rummaged from gcc), courtesy of
?X: Jarkko Hietaniemi <jhi@snakemail.hut.fi> -- RAM, 06/06/94
?X:
?X: If your symbol is mixed case, just add it as-is.
?X: All symbols will be transformed to both all-lower and all-upper.
?X: Also drop any leading/trailing underscores, the scan will try all those.
?X:
$cat <<'EOSH' > Cppsym.know
a29k ABI64 aegis AES_SOURCE AIX AIX32 AIX370
AIX41 AIX42 AIX43 AIX_SOURCE aixpc ALL_SOURCE
alliant alpha am29000 AM29000 AMD64 amiga AMIGAOS AMIX
ansi ANSI_C_SOURCE apollo ardent ARM32 atarist att386 att3b
BeOS BIG_ENDIAN BIT_MSF bsd BSD bsd43 bsd4_2 bsd4_3 BSD4_3 bsd4_4
BSD_4_3 BSD_4_4 BSD_NET2 BSD_TIME BSD_TYPES BSDCOMPAT bsdi
bull c cadmus clipper CMU COFF COMPILER_VERSION
concurrent convex cpu cray CRAY CRAYMPP ctix CX_UX
CYGWIN DGUX DGUX_SOURCE DJGPP dmert DOLPHIN DPX2 DSO
Dynix DynixPTX ELF encore EPI EXTENSIONS FAVOR_BSD
FILE_OFFSET_BITS
 FreeBSD GCC_NEW_VARARGS gcos gcx gimpel
GLIBC GLIBC_MINOR
GNU_SOURCE GNUC GNUC_MINOR GNU_LIBRARY GO32 gould GOULD_PN
H3050R H3050RX hbullx20 hcx host_mips
hp200 hp300 hp700 HP700 hp800 hp9000
hp9000s200 hp9000s300 hp9000s400 hp9000s500
hp9000s700 hp9000s800 hp9k8 hp_osf hppa hpux HPUX_SOURCE
i186 i286 i386 i486 i586 i686 i8086 i80960 i860 I960
IA64 iAPX286 ibm ibm032 ibmesa IBMR2 ibmrt ILP32 ILP64
INLINE_INTRINSICS INTRINSICS INT64 interdata is68k ksr1
LANGUAGE_C LARGE_FILE_API LARGEFILE64_SOURCE
LARGEFILE_SOURCE LFS64_LARGEFILE LFS_LARGEFILE
Linux LITTLE_ENDIAN LONG64 LONG_DOUBLE LONG_LONG
LONGDOUBLE LONGLONG LP64 luna luna88k Lynx
M68000 m68k m88100 m88k M88KBCS_TARGET M_COFF
M_I186 M_I286 M_I386 M_I8086 M_I86 M_I86SM M_SYS3
```

```
M_SYS5 M_SYSIII M_SYSV M_UNIX M_XENIX MACH machine MachTen
MATH_HAS_NO_SIDE_EFFECTS
mc300 mc500 mc68000 mc68010 mc68020 mc68030 mc68040
mc68060 mc68k mc68k32 mc700 mc88000 mc88100 merlin
mert MiNT mips MIPS_FPSET MIPS_ISA MIPS_SIM MIPS_SZINT
MIPS_SZLONG
 MIPS_SZPTR MIPSEB MIPSEL MODERN_C motorola
mpeix MSDOS MTXINU MULTIMAX mvs MVS n16 ncl_el ncl_mr
NetBSD news1500 news1700 news1800 news1900 news3700
news700 news800 news900 NeXT NLS nonstopux ns16000 ns32000
ns32016 ns32332 ns32k nsc32000
OCS88 OEMVS OpenBSD os OS2 OS390 osf OSF1 OSF_SOURCE
pa_risc PA_RISC1_1 PA_RISC2_0 PARAGON parisc
pc532 pdp11 PGC PIC plexus PORTAR posix
POSIX1B_SOURCE POSIX2_SOURCE POSIX4_SOURCE
POSIX_C_SOURCE POSIX_SOURCE POWER
PROTOTYPES PWB pyr QNX R3000 REENTRANT RES Rhapsody RISC6000
riscix riscos RT S390 SA110 scs SCO sequent sgi SGI_SOURCE SH3 sinix
SIZE_INT SIZE_LONG SIZE_PTR SOCKET_SOURCE SOCKETS_SOURCE
sony sony_news sonyrisc sparc sparclite spectrum
stardent stdc STDC_EXT stratos sun sun3 sun386
Sun386i svr3 svr4 SVR4_2 SVR4_SOURCE svr5
SX system SYSTYPE_BSD SYSTYPE_BSD43 SYSTYPE_BSD44
SYSTYPE_SVR4 SYSTYPE_SVR5 SYSTYPE_SYSV SYSV SYSV3 SYSV4 SYSV5
sysV68 sysV88 Tek4132 Tek4300 titan
TM3200 TM5400 TM5600
tower tower32 tower32_200 tower32_600 tower32_700
tower32_800
 tower32_850 tss
u370 u3b u3b2 u3b20 u3b200 u3b20d u3b5
ultrix UMAXV UnicomPBB UnicomPBD UNICOS UNICOSMK
unix UNIX95 UNIX99 unixpc unos
USE_BSD USE_FILE_OFFSET64 USE_GNU USE_ISOC9X USE_LARGEFILE USE_LARGEFILE64
USE_MISC USE_POSIX USE_POSIX199309 USE_POSIX199506 USE_POSIX2
USE_REENTRANT USE_SVID USE_UNIX98 USE_XOPEN USE_XOPEN_EXTENDED
USGr4 USGr4_2
Utek UTek UTS UWIN uxpm uxps vax venix VMESA vms xenix Xenix286
XOPEN_SOURCE XOPEN_SOURCE_EXTENDED XPG2 XPG2_EXTENDED
XPG3 XPG3_EXTENDED XPG4 XPG4_EXTENDED
z8000
EOSH
?X: Maybe put other stuff here too.
cat <<EOSH >>Cppsym.know
$osname
EOSH
./tr '[a-z]' '[A-Z]' < Cppsym.know > Cppsym.a
./tr '[A-Z]' '[a-z]' < Cppsym.know > Cppsym.b
$cat Cppsym.know > Cppsym.c
```

```
$cat Cppsym.a Cppsym.b Cppsym.c | $tr ' ' $trnl | $sort | $uniq > Cppsym.know
$rm -f Cppsym.a Cppsym.b Cppsym.c
cat <<EOSH > Cppsym
$startsh
if $test \$# -gt 0; then
   echo \$* | $tr " " "$trnl" | ./Cppsym.try > Cppsym.got
   if $test -s Cppsym.got; then
       $rm -f Cppsym.got
        exit 0
   fi
   $rm -f Cppsym.got
   exit 1
else
   $tr " " "$trnl" | ./Cppsym.try
   exit 0
fi
EOSH
chmod +x Cppsym
$eunicefix Cppsym
?X: The below awk script will die a horrible death if
?X: some of the tested symbols are not long ints.
?X: Also, we do not make difference between just defined and defined zero.
cat <<EOSH > Cppsym.try
$startsh
cat <<'EOCP' > try.c
#include <stdio.h>
int main() {
EOCP
?X: The length($1) command guards against possible empty entries.
?X: The awk snippet is know to give heartburn to UNICOS/mk awk.
$awk \\
EOSH
cat <<'EOSH' >> Cppsym.try
'length($1) > 0 {
   printf "#ifdef %s\n#if %s+0\nprintf(\"%s=%%ld\\n\", (long)%s);\n#else\nprintf(\"%s\\n\");\n#endif\n#endif\n", $1,
$1, $1, $1, $1
   printf "#ifdef _%s\n#if _%s+0\nprintf(\"_%s=%%ld\\n\",
(long)_%s);\n#else\nprintf(\"_%s\\n\");\n#endif\n#endif\n", $1, $1, $1, $1, $1
   printf "#ifdef __%s\n#if __%s+0\nprintf(\"__%s=%%ld\\n\",
(long)__%s);\n#else\nprintf(\"__%s\\n\");\n#endif\n#endif\n",
 $1, $1, $1, $1, $1
   printf "#ifdef __%s__\n#if __%s__+0\nprintf(\"__%s__=%%ld\\n\",
(long)__%s__);\n#else\nprintf(\"__%s__\\n\");\n#endif\n#endif\n", $1, $1, $1, $1, $1
}'  >> try.c
echo 'return 0;}' >> try.c
EOSH
cat <<EOSH >> Cppsym.try
flags="$ccflags"
```

```
case "$osname-$gccversion" in
irix-) flags="\$flags -woff 1178" ;;
os2-*) flags="\$flags -Zlinker /PM:VIO" ;;
esac
$cc -o try $optimize \$flags $ldflags try.c $libs && $run ./try
EOSH
chmod +x Cppsym.try
$eunicefix Cppsym.try
./Cppsym < Cppsym.know > Cppsym.true
: now check the C compiler for additional symbols
?X: suggested by Jarkko Hietaniemi <jhi@snakemail.hut.fi>, thanks!
postprocess_cc_v="
case "$osname" in
aix) postprocess_cc_v="|$tr , ' '" ;;
esac
$cat >ccsym <<EOS
$startsh
$cat >tmp.c <<EOF
extern int foo;
EOF
for i in \`$cc -v -c tmp.c 2>&1 $postprocess_cc_v\`
do
 case "\$i" in
 -D*) echo "\$i" | $sed 's/^-D//';;
 -A*) $test "$gccversion" && echo "\$i" | $sed 's/^-A//' | $sed 's/\(.*\)(\(.*\))/\1=\2/';;
 esac
done
$rm
 -f try.c
EOS
postprocess_cc_v="
chmod +x ccsym
$eunicefix ccsym
./ccsym > ccsym1.raw
?X: AIX complains if $uniq is passed an empty file.  ($sort apparently
?X: doesn't care.)  --AD  14 July 1998
if $test -s ccsym1.raw; then
	$sort ccsym1.raw | $uniq >ccsym.raw
else
	mv ccsym1.raw ccsym.raw
fi

?X: canonicalize symbols for easier sort/uniq/comm usage: append =1 if no = sign
?X: the awk script must be on two lines for older awk programs, sigh! -- ADO
$awk '/\=/ { print $0; next }
 { print $0"=1" }' ccsym.raw >ccsym.list
$awk '/\=/ { print $0; next }
 { print $0"=1" }' Cppsym.true >ccsym.true
```

```
$comm -13 ccsym.true ccsym.list >ccsym.own
$comm -12 ccsym.true ccsym.list >ccsym.com
$comm -23 ccsym.true ccsym.list >ccsym.cpp
also=''
if $test -z ccsym.raw; then
 echo "Your C compiler doesn't seem to define any symbols!" >&4
 echo " "
 echo "However, your C preprocessor defines the following symbols:"
 $cat Cppsym.true
    ccsymbols=''
 cppsymbols=`$cat Cppsym.true`
       cppsymbols=`echo
 $cppsymbols`
 cppccsymbols="$cppsymbols"
else
 if $test -s ccsym.com; then
  echo "Your C compiler and pre-processor define these symbols:"
  $sed -e 's/\(..*\)=.*/\1/' ccsym.com
  also='also '
  symbols='ones'
  cppccsymbols=`$cat ccsym.com`
  cppccsymbols=`echo $cppccsymbols`
  $test "$silent" || sleep 1
 fi
 if $test -s ccsym.cpp; then
  $test "$also" && echo " "
  echo "Your C pre-processor ${also}defines the following symbols:"
  $sed -e 's/\(..*\)=.*/\1/' ccsym.cpp
  also='further '
  cppsymbols=`$cat ccsym.cpp`
  cppsymbols=`echo $cppsymbols`
  $test "$silent" || sleep 1
 fi
 if $test -s ccsym.own; then
  $test "$also" && echo " "
  echo "Your C compiler ${also}defines the following cpp symbols:"
  $sed -e 's/\(..*\)=1/\1/' ccsym.own
  $sed -e 's/\(..*\)=.*/\1/' ccsym.own | $uniq >>Cppsym.true
         ccsymbols=`$cat ccsym.own`
         ccsymbols=`echo $ccsymbols`
  $test "$silent" || sleep 1
 fi
fi
$rm -f Cppsym.know Cppsym.true
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Cppsym.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msg.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:37  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_msg: test d_msgctl d_msgget d_msgsnd d_msgrcv Setvar Findhdr osname
?MAKE: -pick add $@ %<
?S:d_msg:
?S: This variable conditionally defines the HAS_MSG symbol, which
?S: indicates that the entire msg*(2) library is present.
?S:.
?C:HAS_MSG:
?C: This symbol, if defined, indicates that the entire msg*(2) library is
?C: supported (IPC mechanism based on message queues).
?C:.
?H:#$d_msg
 HAS_MSG  /**/
?H:.
?T:h_msg
?LINT:set d_msg
: see how much of the 'msg*(2)' library is present.
h_msg=true
echo " "
case "$d_msgctl$d_msgget$d_msgsnd$d_msgrcv" in
*"$undef"*) h_msg=false;;
esac
case "$osname" in
freebsd)
   case "`ipcs 2>&1`" in
   "SVID messages"*"not configured"*)
 echo "Your $osname does not have the msg*(2) configured." >&4
       h_msg=false
 val="$undef"
 set msgctl d_msgctl
 eval $setvar
 set msgget d_msgget
 eval $setvar
```

```
 set msgsnd d_msgsnd
 eval $setvar
 set msgrcv d_msgrcv
 eval $setvar
 ;;
   esac
   ;;
esac
: we could also check for sys/ipc.h ...
if $h_msg && $test `./findhdr sys/msg.h`; then
 echo "You have the full msg*(2) library." >&4
 val="$define"
else
 echo "You don't have the full msg*(2) library." >&4
 val="$undef"
fi
set d_msg
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_msg.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: orderlib.U,v 3.0.1.4 1997/02/28 16:18:18 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: orderlib.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  16:18:18  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: likewise for .o replaced by $_o
?RCS: patch61: now uses the ar located by Loc.U
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:33:04  ram
?RCS: patch45: allows hint files to specify their own value for 'ranlib'
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:26:48  ram
?RCS: patch36: now performs a real small compile for accurate
 checks (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:31:17  ram
```

```
?RCS: patch32: use cc variable instead of hardwired 'cc' in 1st compile
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:orderlib ranlib: Loc ar cat test rm +cc +ccflags +ldflags +libs i_stdlib _a _o run
?MAKE: -pick add $@ %<
?S:orderlib:
?S: This variable is "true" if the components of libraries must be ordered
?S: (with `lorder $* | tsort`) before placing them in an archive.  Set to
?S: "false" if ranlib or ar can generate random libraries.
?S:.
?S:ranlib:
?S: This variable is set to the pathname of the ranlib program, if it is
?S: needed to generate random libraries.  Set to ":" if ar can generate
?S: random libraries or if random libraries are not supported
?S:.
?F:!foobar
: see if ar generates random libraries by itself
echo " "
echo "Checking how to generate random libraries on your machine..." >&4
?X: Some systems (like MIPS) complain when running
 ar... Others like Ultrix
?X: need an explicit 'ar ts' to add the table of contents.
?X: Still others like Linux run ar ts successfully, but still need ranlib.
?X: This set of tests seems the minimum necessary to check out Linux.
?X: We need to explicitly put the entries in out-of-order so that Sun's ld
?X: will fail.  (Otherwise it complains, but gives an exit status of 0.)
echo 'int bar1() { return bar2(); }' > bar1.c
echo 'int bar2() { return 2; }' > bar2.c
$cat > foo.c <<EOP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() { printf("%d\n", bar1()); exit(0); }
EOP
$cc $ccflags -c bar1.c >/dev/null 2>&1
$cc $ccflags -c bar2.c >/dev/null 2>&1
$cc $ccflags -c foo.c >/dev/null 2>&1
$ar rc bar$_a bar2$_o bar1$_o >/dev/null 2>&1
if $cc -o foobar $ccflags $ldflags foo$_o bar$_a $libs > /dev/null 2>&1 &&
 $run ./foobar >/dev/null 2>&1; then
 echo "$ar appears to generate random libraries itself."
 orderlib=false
 if [ "X$ranlib" = "X" ]; then
     ranlib=":"
 fi
```

```
elif
 $ar s bar$_a >/dev/null 2>&1 &&
 $cc -o foobar $ccflags $ldflags foo$_o bar$_a $libs > /dev/null 2>&1 &&
 $run ./foobar >/dev/null 2>&1; then
  echo "a table of contents needs to be added with '$ar s'."
  orderlib=false
  ranlib="$ar s"
elif $ar ts bar$_a >/dev/null 2>&1 &&
 $cc -o foobar $ccflags $ldflags foo$_o bar$_a $libs > /dev/null 2>&1 &&
 $run ./foobar >/dev/null 2>&1; then
  echo "a table of contents needs to be added with '$ar ts'."
  orderlib=false
  ranlib="$ar ts"
else
?X: Allow hints to specify their own ranlib "script". For instance, on
?X: some NeXT machines, the timestamp put by ranlib is not correct, and this
?X: may raise tedious recompiles for nothing. Therefore, NeXT may add the
?X: ranlib='sleep 5; /bin/ranlib' line in their hints to "fix" that.
?X: (reported by Andreas Koenig <k@franz.ww.tu-berlin.de>)
 case "$ranlib" in
 :) ranlib=";;
 ")
  ranlib=`./loc ranlib X /usr/bin /bin /usr/local/bin`
  $test -f $ranlib || ranlib="
  ;;
 esac
 if $test -n "$ranlib";
 then
  echo "your system has '$ranlib'; we'll use that."
  orderlib=false
 else
  echo "your system doesn't seem to support random libraries"
  echo "so we'll use lorder and tsort to order the libraries."
  orderlib=true
  ranlib=":"
 fi
fi
$rm -f foo* bar*
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/orderlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_vfork.U,v $
?RCS: Revision 3.0.1.6  1994/08/29  16:18:21  ram
?RCS: patch32: set default to 'y' the first time
?RCS:
?RCS: Revision 3.0.1.5  1994/06/20  06:59:14  ram
?RCS: patch30: usevfork was not always properly set
?RCS:
?RCS: Revision 3.0.1.4  1994/05/13  15:20:56  ram
?RCS: patch27: modified to avoid spurious Whoa warnings (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/05/06  14:59:09  ram
?RCS: patch23: now explicitly ask whether vfork() should be used (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1993/10/16
  13:49:39  ram
?RCS: patch12: added magic for vfork()
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:06:57  ram
?RCS: patch10: removed automatic remapping of vfork on fork (WAD)
?RCS: patch10: added compatibility code for older config.sh (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_vfork usevfork: Inlibc Myread Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_vfork:
?S: This variable conditionally defines the HAS_VFORK symbol, which
?S: indicates the vfork() routine is available.
?S:.
?S:usevfork:
?S: This variable is set to true when the user accepts to use vfork.
?S: It is set to false when no vfork is available or when the user
?S: explicitly requests not to use vfork.
?S:.
?C:HAS_VFORK (VFORK):
?C: This symbol, if defined, indicates that vfork() exists.
?C:.
?H:#$d_vfork HAS_VFORK /**/
?H:.
?M:vfork: HAS_VFORK
?M:#ifndef HAS_VFORK
```

```
?M:#define vfork fork
?M:#endif
?M:.
?LINT:set d_vfork
: see if there is a vfork
val=''
set
 vfork val
eval $inlibc

: Ok, but do we want to use it. vfork is reportedly unreliable in
: perl on Solaris 2.x, and probably elsewhere.
case "$val" in
$define)
 echo " "
 case "$usevfork" in
 false) dflt='n';;
 *) dflt='y';;
 esac
 rp="Some systems have problems with vfork().  Do you want to use it?"
 . ./myread
 case "$ans" in
 y|Y) ;;
 *)
  echo "Ok, we won't use vfork()."
  val="$undef"
  ;;
 esac
 ;;
esac
?X:
?X: Only set it when final value is known to avoid spurious Whoas
?X: Then set usevfork accordingly to the current value, for next run
?X:
set d_vfork
eval $setvar
case "$d_vfork" in
$define) usevfork='true';;
*) usevfork='false';;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_vfork.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_unistd.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_unistd.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_unistd: Inhdr
?MAKE: -pick add $@ %<
?S:i_unistd:
?S: This variable conditionally defines the I_UNISTD symbol, and indicates
?S: whether a C program should include <unistd.h>.
?S:.
?C:I_UNISTD:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <unistd.h>.
?C:.
?H:#$i_unistd I_UNISTD  /**/
?H:.
?LINT:set
 i_unistd
: see if this is a unistd.h system
set unistd.h i_unistd
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_unistd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorbin.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorbin.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
```

```
?RCS:
?MAKE:d_vendorbin vendorbin vendorbinexp installvendorbin: Getfile \
 Setprefixvar Oldconfig Prefixit vendorprefix
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorbin:
?S: This variable contains the eventual value of the VENDORBIN symbol.
?S: It may have a ~ on the front.
?S: The standard distribution will put nothing in this directory.
?S: Vendors who distribute perl
 may wish to place additional
?S: binaries in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorbinexp:
?S: This variable is the ~name expanded version of vendorbin, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorbin="
?S:installvendorbin:
?S: This variable is really the same as vendorbinexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?S:d_vendorbin:
?S: This variable conditionally defines PERL_VENDORBIN.
?S:.
?C:PERL_VENDORBIN:
?C: If defined, this symbol contains the name of a directory
?C: for holding vendor-supplied executables.
?C: It may have a ~ on the front.
?C: The standard distribution will put nothing in this directory.
?C: Vendors who distribute perl may wish to place additional
?C: binaries in this directory with
?C:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?C: or equivalent.
  See INSTALL for details.
?C:.
?C:PERL_VENDORBIN_EXP:
?C: This symbol contains the ~name expanded version of VENDORBIN, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#$d_vendorbin PERL_VENDORBIN "$vendorbin"  /**/
?H:#$d_vendorbin PERL_VENDORBIN_EXP "$vendorbinexp"  /**/
?H:.
?LINT:change prefixvar
?LINT:set installvendorbin
```

```
: Set the vendorbin variables
case "$vendorprefix" in
") d_vendorbin="$undef"
 vendorbin="
 vendorbinexp="
 ;;
*) d_vendorbin="$define"
 : determine where vendor-supplied executables go.
 case "$vendorbin" in
 ") dflt=$vendorprefix/bin ;;
 *) dflt="$vendorbin" ;;
 esac
 fn=d~+
 rp='Pathname for the vendor-supplied executables directory?'
 . ./getfile
 vendorbin="$ans"
 vendorbinexp="$ansexp"
 ;;
esac
prefixvar=vendorbin
. ./installprefix
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/vendorbin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sanemcmp.U,v 3.0.1.1 1997/02/28 15:41:19 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_sanemcmp.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:41:19  ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_sanemcmp: Compile cat d_memcmp rm_try run \
 i_memory i_stdlib i_string i_unistd Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_sanemcmp:
?S: This variable conditionally defines the HAS_SANE_MEMCMP symbol if
?S: the memcpy() routine is available and can be used to compare relative
```

```
?S: magnitudes of chars with their high bits set.
?S:.
?C:HAS_SANE_MEMCMP:
?C: This
 symbol, if defined, indicates that the memcmp routine is available
?C: and can be used to compare relative magnitudes of chars with their high
?C: bits set.  If it is not defined, roll your own version.
?C:.
?H:#$d_sanemcmp HAS_SANE_MEMCMP /**/
?H:.
?F:!try
?LINT: set d_sanemcmp
: can memcmp be trusted to compare relative magnitude?
?X: assume the worst
val="$undef"
case "$d_memcmp" in
"$define")
 echo " "
 echo "Checking if your memcmp() can compare relative magnitude..." >&4
 $cat >try.c <<EOCP
#$i_memory I_MEMORY
#$i_stdlib I_STDLIB
#$i_string I_STRING
#$i_unistd I_UNISTD
EOCP
 $cat >>try.c <<'EOCP'
#include <stdio.h>
#ifdef I_MEMORY
#  include <memory.h>
#endif
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#ifdef I_STRING
#  include <string.h>
#else
#  include <strings.h>
#endif
#ifdef I_UNISTD
#  include <unistd.h>  /* Needed for NetBSD */
#endif
int main()
{
char a = -1;
char b = 0;
if ((a < b) && memcmp(&a, &b, 1) < 0)
 exit(1);
exit(0);
```

```
}
EOCP
 set try
 if eval
 $compile_ok; then
  if $run ./try 2>/dev/null; then
   echo "Yes, it can."
   val="$define"
  else
   echo "No, it can't (it uses signed chars)."
  fi
 else
  echo "(I can't compile the test program, so we'll assume not...)"
 fi
 ;;
esac
$rm_try
set d_sanemcmp
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_sanemcmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS:
?MAKE:i_stdint: Inhdr
?MAKE: -pick add $@ %<
?S:i_stdint:
?S: This variable conditionally defines the I_STDINT symbol, which
?S: indicates to the C program that <stdint.h> exists and should
?S: be included.
?S:.
?C:I_STDINT:
?C: This symbol, if defined, indicates that <stdint.h> exists and
?C: should be included.
?C:.
?H:#$i_stdint I_STDINT  /**/
?H:.
?LINT:set i_stdint
: see if stdint is available
set stdint.h i_stdint
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/U/perl/i_stdint.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_fcntl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_fcntl.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:18  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_fcntl: h_fcntl h_sysfile +i_sysfile Inhdr Setvar
?MAKE: -pick add $@ %<
?S:i_fcntl:
?S: This variable controls the value of I_FCNTL (which tells
?S: the C program to include <fcntl.h>).
?S:.
?C:I_FCNTL (HDR_O_STUFF FCNTL):
?C: This manifest constant tells the C program to include <fcntl.h>.
?C:.
?H:#$i_fcntl I_FCNTL /**/
?H:.
?T:val
?X:
 Make line lists +i_sysfile to ensure tests for <sys/file.h> will be
?X: conducted prior tests for <fcntl.h>, hece making sure the h_sysfile
?X: variable is correctly set when we reach that unit.
?LINT:set i_fcntl
?LINT:use i_sysfile
?LINT:change h_fcntl
: see if fcntl.h is there
val=''
set fcntl.h val
eval $inhdr

: see if we can include fcntl.h
case "$val" in
"$define")
 echo " "
 if $h_fcntl; then
  val="$define"
  echo "We'll be including <fcntl.h>." >&4
```

```
 else
  val="$undef"
  if $h_sysfile; then
 echo "We don't need to include <fcntl.h> if we include <sys/file.h>." >&4
  else
   echo "We won't be including <fcntl.h>." >&4
  fi
 fi
 ;;
*)
 h_fcntl=false
 val="$undef"
 ;;
esac
set i_fcntl
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_fcntl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_safebcpy.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  15:40:58  ram
?RCS: patch61: improved overlapping copy check
?RCS: patch61: comfort them if they have memmove
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.3  1995/07/25  13:58:40  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.2  1995/01/11  15:29:23  ram
?RCS: patch45: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:49:03
  ram
?RCS: patch23: ensure string is not optimized in read-only memory (ADO)
?RCS:
```

```
?RCS: Revision 3.0  1993/08/18  12:06:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_safebcpy: cat d_bcopy +cc +optimize +ccflags +ldflags +libs rm \
 d_memmove i_memory i_stdlib i_string i_unistd Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_safebcpy:
?S: This variable conditionally defines the HAS_SAFE_BCOPY symbol if
?S: the bcopy() routine can do overlapping copies.
?S:.
?C:HAS_SAFE_BCOPY (SAFE_BCOPY):
?C: This symbol, if defined, indicates that the bcopy routine is available
?C: to copy potentially overlapping memory blocks. Otherwise you should
?C: probably use memmove() or memcpy(). If neither is defined, roll your
?C: own version.
?C:.
?H:#$d_safebcpy HAS_SAFE_BCOPY /**/
?H:.
?F:!safebcpy
?LINT: set d_safebcpy
: can bcopy handle overlapping blocks?
?X: assume the worst
val="$undef"
case "$d_bcopy" in
"$define")
 echo " "
 echo "Checking to see if your bcopy() can do overlapping
 copies..." >&4
 $cat >foo.c <<EOCP
#$i_memory I_MEMORY
#$i_stdlib I_STDLIB
#$i_string I_STRING
#$i_unistd I_UNISTD
EOCP
 $cat >>foo.c <<'EOCP'
#include <stdio.h>
#ifdef I_MEMORY
#  include <memory.h>
#endif
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#ifdef I_STRING
#  include <string.h>
#else
#  include <strings.h>
#endif
#ifdef I_UNISTD
```

```
#  include <unistd.h>  /* Needed for NetBSD */
#endif
int main()
{
char buf[128], abc[128];
char *b;
int len;
int off;
int align;

?X: Copy "abcde..." string to char abc[] so that gcc doesn't
?X: try to store the string in read-only memory.
bcopy("abcdefghijklmnopqrstuvwxyz0123456789", abc, 36);

for (align = 7; align >= 0; align--) {
 for (len = 36; len; len--) {
  b = buf+align;
  bcopy(abc, b, len);
  for (off = 1; off <= len; off++) {
   bcopy(b, b+off, len);
   bcopy(b+off, b, len);
   if (bcmp(b, abc, len))
    exit(1);
  }
 }
}
exit(0);
}
EOCP
 if $cc $optimize $ccflags $ldflags \
      -o safebcpy foo.c $libs >/dev/null 2>&1; then
  if ./safebcpy
 2>/dev/null; then
   echo "Yes, it can."
   val="$define"
  else
   echo "It can't, sorry."
   case "$d_memmove" in
   "$define") echo "But that's Ok since you have memmove()." ;;
   esac
  fi
 else
  echo "(I can't compile the test program, so we'll assume not...)"
  case "$d_memmove" in
  "$define") echo "But that's Ok since you have memmove()." ;;
  esac
 fi
 ;;
```

```
esac
$rm -f foo.* safebcpy core
set d_safebcpy
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_safebcpy.U
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```
?RCS: $Id: d_voidsig.U,v 3.0.1.3 1995/05/12 12:12:46 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_voidsig.U,v $
?RCS: Revision 3.0.1.3  1995/05/12  12:12:46  ram
?RCS: patch54: made cppflags dependency optional
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:20:35  ram
?RCS: patch32: now sets signal_t only once d_voidsig is known (WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:59:54  ram
?RCS: patch30: now properly sets signal_t when re-using previous value
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_voidsig
 signal_t: rm contains cppstdin cppminus +cppflags test Myread \
 Oldconfig Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_voidsig:
?S: This variable conditionally defines VOIDSIG if this system
?S: declares "void (*signal(...))()" in signal.h.  The old way was to
?S: declare it as "int (*signal(...))()".
?S:.
?S:signal_t:
?S: This variable holds the type of the signal handler (void or int).
?S:.
?C:VOIDSIG:
?C: This symbol is defined if this system declares "void (*signal(...))()" in
?C: signal.h.  The old way was to declare it as "int (*signal(...))()".  It
```

```
?C: is up to the package author to declare things correctly based on the
?C: symbol.
?C:.
?C:Signal_t (SIGNAL_T):
?C: This symbol's value is either "void" or "int", corresponding to the
?C: appropriate return type of a signal handler.  Thus, you can declare
?C: a signal handler using "Signal_t (*handler)()", and define the
?C: handler using "Signal_t handler(sig)".
?C:.
?H:#$d_voidsig VOIDSIG /**/
?H:#define
 Signal_t $signal_t /* Signal handler's return type */
?H:.
?T:xxx
?LINT:set d_voidsig
: see if signal is declared as pointer to function returning int or void
echo " "
xxx=`./findhdr signal.h`
$test "$xxx" && $cppstdin $cppminus $cppflags < $xxx >$$.tmp 2>/dev/null
if $contains 'int.*\*[  ]*signal' $$.tmp >/dev/null 2>&1 ; then
 echo "You have int (*signal())() instead of void." >&4
 val="$undef"
elif $contains 'void.*\*[  ]*signal' $$.tmp >/dev/null 2>&1 ; then
 echo "You have void (*signal())()." >&4
 val="$define"
elif $contains 'extern[  ]*[(\*]*signal' $$.tmp >/dev/null 2>&1 ; then
 echo "You have int (*signal())() instead of void." >&4
 val="$undef"
?X: This next test is kind of sloppy, but it catches Linux
?X: which has a
?X:  typedef void (*__sighandler_t)  (int)  ;
?X: A better fix would be to compile a C program with the proper
?X: prototype, but since nearly everyone uses void, we'll just go with
?X: this.
elif $contains 'void.*\*.*sig' $$.tmp >/dev/null 2>&1 ; then
 echo "You
 have void (*signal())()." >&4
 val="$define"
else
 case "$d_voidsig" in
 ")
 echo "I can't determine whether signal handler returns void or int..." >&4
  dflt=void
  rp="What type does your signal handler return?"
  . ./myread
  case "$ans" in
  v*) val="$define";;
  *) val="$undef";;
```

```
  esac;;
 "$define")
  echo "As you already told me, signal handler returns void." >&4
  val="$define"
  ;;
 *) echo "As you already told me, signal handler returns int." >&4
  val="$undef"
  ;;
 esac
fi
set d_voidsig
eval $setvar
case "$d_voidsig" in
"$define") signal_t="void";;
*) signal_t="int";;
esac
$rm -f $$.tmp
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_voidsig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: mailfile.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: mailfile.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:24:57  ram
?RCS: patch36: the Loc unit was missing from the dependency line
?RCS:
?RCS: Revision 3.0.1.1  1993/12/15  08:22:08  ram
?RCS: patch15: now also looks under /var/mail for BSD/386
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:11  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:mailfile: Myread Oldconfig Filexp Loc
?MAKE: -pick add $@ %<
?S:mailfile:
?S: This variable contains
```

```
 the eventual value of the MAILFILE symbol,
?S: which contains an interpretable name of the mail spool file for the
?S: current user.
?S:.
?C:MAILFILE:
?C: This symbol contains the interpretable name of the mail spool file
?C: for the current user.  The program must be prepared to substitute
?C: the HOME directory for %~, and the login id for %L.
?C:.
?H:#define MAILFILE "$mailfile"  /**/
?H:.
: determine where mail is spooled
case "$mailfile" in
")
 dflt=`./loc . XXX /usr/spool/mail /usr/mail /var/mail`
 case "$dflt" in
 XXX) dflt='%~/mailbox';;
 *) dflt="$dflt/%L";;
 esac
 ;;
*)  dflt="$mailfile"
 ;;
esac
cat <<'EOM'

In the following question, you may use %~ to represent the user's home
directory, and %L to represent a users name.

EOM
rp='In which file is yet-to-be-read mail spooled? (~name ok)'
. ./myread
mailfile=`./filexp "$ans"`
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/mailfile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in order
?X: to make quick check on whether the current C compiler is working.
?X:
?MAKE:Checkcc ccname ccversion: Myread Warn startsh cat contains test
?MAKE: -pick add $@ %<
?S:ccname:
?S: This can set either by hints files or by Configure.  If using
?S: gcc, this is gcc, and if not, usually equal to cc, unimpressive, no?
?S: Some platforms, however, make good use of this by storing the
?S: flavor
 of the C compiler being used here.  For example if using
?S: the Sun WorkShop suite, ccname will be 'workshop'.
?S:.
?S:ccversion:
?S: This can set either by hints files or by Configure.  If using
?S: a (non-gcc) vendor cc, this variable may contain a version for
?S: the compiler.
?S:.
?F:./checkcc ./trygcc !checktmp
?V:despair
?T:trygcc
?LINT:extern cc rm ccflags ldflags
?LINT:change cc ccflags
?LINT:usefile checktmp
?INIT:ccname=''
?INIT:ccversion=''
: generate the trygcc script for later perusal
cat <<EOS >trygcc
$startsh
EOS
cat <<'EOSC' >>trygcc
case "$cc" in
'') ;;
*)  $rm -f try try.*
   $cat >try.c <<EOM
int main(int argc, char *argv[]) {
 (void) argc;
 (void) argv;
 return 0;
}
EOM
   if $cc -o try $ccflags $ldflags try.c; then
      :
   else
      echo "Uh-oh, the C compiler '$cc' doesn't seem to be working." >&4
```

```
      despair=yes
      trygcc=yes
      case "$cc" in
      *gcc*) trygcc=no ;;
      esac
      case "`$cc -v -c try.c 2>&1`" in

     *gcc*) trygcc=no ;;
      esac
      if $test X"$trygcc" = Xyes; then
         if gcc -o try -c try.c; then
            echo " "
            echo "You seem to have a working gcc, though." >&4
            rp="Would you like to use it?"
            dflt=y
            if $test -f myread; then
               . ./myread
            else
               if $test -f UU/myread; then
                  . ./UU/myread
               else
                  echo "Cannot find myread, sorry.  Aborting." >&2
                  exit 1
               fi
            fi
            case "$ans" in
            [yY]*) cc=gcc; ccname=gcc; ccflags=''; despair=no;
?X: Look whether we have 'call-back units' generated by hints that would
?X: seemingly affect the compiling environment.
                  $cat *.cbu >checktmp 2>/dev/null
                  if $contains ccflags checktmp >/dev/null; then

      ./warn <<EOM
Any previous setting of the C compiler flags has been lost.
It may be necessary to pass -Dcc=gcc to Configure right away.
EOM
                  fi;;
            esac
         fi
      fi
   fi
   $rm -f try try.*
   ;;
esac
EOSC

: generate the checkcc script for later perusal
cat <<EOS >checkcc
```

```
$startsh
EOS
cat <<'EOSC' >>checkcc
case "$cc" in
") ;;
*)  $rm -f try try.*
   $cat >try.c <<EOM
int main(int argc, char *argv[]) {
 (void) argc;
 (void) argv;
 return 0;
}
EOM
   if $cc -o try $ccflags $ldflags try.c; then
      :
   else
      if $test X"$despair" = Xyes; then
         echo "Uh-oh, the C compiler '$cc' doesn't seem to be working." >&4
      fi
      $cat >&4 <<EOM
You need to find a working C compiler.
Either (purchase and) install the C compiler supplied by your OS vendor,
or for a free C compiler try http://gcc.gnu.org/
I cannot continue any further, aborting.
EOM
      exit 1
   fi

 $rm -f try try.*
   ;;
esac
EOSC
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Checkcc.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: i_sysioctl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:

```
?RCS: $Log: i_sysioctl.U,v $
?RCS: Revision 3.0.1.2  1994/05/06  15:04:57  ram
?RCS: patch23: added knowledge for <sys/filio.h> (WED)
?RCS: patch23: optimized amount of findhdr calls
?RCS:
?RCS: Revision 3.0.1.1  1993/11/10  17:36:09  ram
?RCS: patch14: now use a compiler check for TIOCNOTTY because of HP-UX 9.x
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:32  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_sysioctl i_bsdioctl i_sysfilio i_syssockio
 d_voidtty: test contains \
 cat i_termio i_termios i_sgtty Setvar Findhdr +cc rm Inhdr
?MAKE: -pick add $@ %<
?S:i_sysioctl:
?S: This variable conditionally defines the I_SYS_IOCTL symbol, which
?S: indicates to the C program that <sys/ioctl.h> exists and should
?S: be included.
?S:.
?S:i_sysfilio:
?S: This variable conditionally defines the I_SYS_FILIO symbol, which
?S: indicates to the C program that <sys/filio.h> exists and should
?S: be included in preference to <sys/ioctl.h>.
?S:.
?S:i_bsdioctl:
?S: This variable conditionally defines the I_SYS_BSDIOCTL symbol, which
?S: indicates to the C program that <sys/bsdioctl.h> exists and should
?S: be included.
?S:.
?S:i_syssockio:
?S: This variable conditionally defines I_SYS_SOCKIO to indicate to the
?S: C program that socket ioctl codes may be found in <sys/sockio.h>
?S: instead of <sys/ioctl.h>.
?S:.
?S:d_voidtty:
?S: This variable conditionally defines USE_IOCNOTTY to indicate that the
?S: ioctl() call with TIOCNOTTY should be used
 to void tty association.
?S: Otherwise (on USG probably), it is enough to close the standard file
?S: descriptors and do a setpgrp().
?S:.
?C:I_SYS_IOCTL (I_SYSIOCTL):
?C: This symbol, if defined, indicates that <sys/ioctl.h> exists and should
?C: be included. Otherwise, include <sgtty.h> or <termio.h>.
?C:.
?C:I_SYS_FILIO:
?C: This symbol, if defined, indicates that <sys/filio.h> exists and
```

```
?C: should be included instead of <sys/ioctl.h>.
?C:.
?C:I_SYS_BSDIOCTL (I_BSDIOCTL):
?C: This symbol, if defined, indicates that <sys/bsdioctl.h> exists and should
?C: be included. Otherwise, try <sys/ioctl.h>. This is primarly intended for
?C: definitions of sockets options, like SIOCATMARK.
?C:.
?C:I_SYS_SOCKIO (I_SYSSOCKIO):
?C: This symbol, if defined, indicates the <sys/sockio.h> should be included
?C: to get socket ioctl options, like SIOCATMARK.
?C:.
?C:USE_TIOCNOTTY (VOIDTTY):
?C: This symbol, if defined indicate to the C program that the ioctl()
?C: call with TIOCNOTTY should be used
 to void tty association.
?C: Otherwise (on USG probably), it is enough to close the standard file
?C: descriptors and do a setpgrp().
?C:.
?H:#$i_sysioctl I_SYS_IOCTL  /**/
?H:#$i_sysfilio I_SYS_FILIO  /**/
?H:#$i_bsdioctl I_SYS_BSDIOCTL  /**/
?H:#$i_syssockio I_SYS_SOCKIO /**/
?H:#$d_voidtty USE_TIOCNOTTY /**/
?H:.
?T:xxx
: see if ioctl defs are in sgtty, termio, sys/filio or sys/ioctl
?LINT:set i_sysfilio
set sys/filio.h i_sysfilio
eval $inhdr
echo " "
if $test `./findhdr sys/ioctl.h`; then
 val="$define"
 echo '<sys/ioctl.h> found.' >&4
else
 val="$undef"
 if $test $i_sysfilio = "$define"; then
     echo '<sys/ioctl.h> NOT found.' >&4
 else
  $test $i_sgtty = "$define" && xxx="sgtty.h"
  $test $i_termio = "$define" && xxx="termio.h"
  $test $i_termios = "$define" && xxx="termios.h"
echo "No <sys/ioctl.h> found, assuming ioctl args are defined in <$xxx>." >&4
 fi
fi
?LINT:set i_sysioctl
set i_sysioctl
eval $setvar
```

```
@if I_BSDIOCTL || i_bsdioctl
?X:
?X: The only machine I know where this
 inclusion was necessary is a
?X: BULL DPX 5000 (a French machine).
?X:
: see if socket ioctl defs are in sys/bsdioctl or sys/ioctl
echo " "
xxx=`./findhdr sys/bsdioctl.h`
if $test "$xxx"; then
 if $contains SIOCATMARK $xxx >/dev/null 2>&1; then
  val="$define"
  echo "You have socket ioctls defined in <sys/bsdioctl.h>." >&4
 else
  val="$undef"
  echo "No socket ioctls found in <sys/bsdioctl.h>." >&4
 fi
else
 val="$undef"
 echo "<sys/bsdioctl.h> not found, but that's ok." >&4
fi
?LINT:set i_bsdioctl
set i_bsdioctl
eval $setvar

@end
@if I_SYSSOCKIO || i_syssockio
: see if socket ioctl defs are in sys/sockio.h
echo " "
xxx=`./findhdr sys/sockio.h`
if $test "$xxx"; then
 if $contains SIOCATMARK $xxx >/dev/null 2>&1; then
  val="$define"
  echo "You have socket ioctls defined in <sys/sockio.h>." >&4
 else
  val="$undef"
  echo "No socket ioctls found in <sys/sockio.h>." >&4
 fi
else
 val="$undef"
@if I_BSDIOCTL
 case "$i_bsdioctl" in
 "$define") $cat <<EOM
<sys/sockio.h> not found, using
 ioctls from <sys/bsdioctl.h>.
EOM
 ;;
 *) $cat <<EOM
```

```
<sys/sockio.h> not found, assuming socket ioctls are in <sys/ioctl.h>.
EOM
 ;;
 esac
@else
 $cat <<EOM
<sys/sockio.h> not found, assuming socket ioctls are in <sys/ioctl.h>.
EOM
@end
fi
?LINT:set i_syssockio
set i_syssockio
eval $setvar

@end
@if VOIDTTY || d_voidtty
: check how to void tty association
echo " "
case "$i_sysioctl" in
"$define") xxx='sys/ioctl.h';;
?X: otherwise $xxx was set during the determination of i_sysioctl, above.
esac
?X:
?X: Can't use $contains here since HP-UX 9.x has TIOCNOTTY between a pair
?X: of #ifdef/#endif and is never actually defined. Oh well...
?X:
$cat > tcio.c <<EOM
#include <sys/types.h> /* Just in case */
#include <$xxx>

int main()
{
#ifdef TIOCNOTTY
 exit(0);
#else
 exit(1);
#endif
}
EOM
if ($cc -o tcio tcio.c && ./tcio) >/dev/null 2>&1; then
 val="$define"
 echo "TIOCNOTTY found in <$xxx>." >&4
 echo "Using ioctl() call on /dev/tty to void tty association." >&4
else
 val="$undef"
 echo "Closing
 standard file descriptors should void tty association." >&4
fi
```

```
?LINT:set d_voidtty
set d_voidtty
eval $setvar
$rm -f tcio tcio.? core

@end
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sysioctl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: contains.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: contains.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:contains: Nothing
?MAKE: -pick add $@ %<
?S:contains:
?S: This variable holds the command to do a grep with a proper return
?S: status.  On most sane systems it is simply "grep".  On insane systems
?S: it is a grep followed by a cat followed by a test.  This variable
?S: is primarily for the use of other Configure units.
?S:.
: Some
 greps do not return status, grrr.
echo "grimblepritz" >grimble
if grep blurfldyick grimble >/dev/null 2>&1 ; then
 contains=contains
elif grep grimblepritz grimble >/dev/null 2>&1 ; then
 contains=grep
else
 contains=contains
fi
rm -f grimble
: the following should work in any shell
case "$contains" in
contains*)
```

```
 echo " " >&4
 echo "AGH!  Grep doesn't return a status.  Attempting remedial action." >&4
 cat >contains <<'EOSS'
grep "$1" "$2" >.greptmp && cat .greptmp && test -s .greptmp
EOSS
contains=./contains
chmod +x $contains
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/contains.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: cpp_trad.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cpp_stuff.U,v $
?MAKE:cpp_trad: cpp cat contains rm
?MAKE: -pick add $@ %<
?S:cpp_trad:
?S: This variable contains the program to run to get traditional C
?S: preprocessor semantics and not ISO C semantics: we want something
?S: that knows as little about C as possible to use as a more general
?S: purpose preprocessor.
?S:.
?F:!foo.c !foo.cpp
: how do we get traditional cpp semantics?
echo " "
echo "Checking to see how to get traditional cpp semantics..."
 >&4
$cat >foo.c <<'EOF'
#define A(x) x
#define B(y) y
A(a)B(b)
EOF
if $cpp foo.c >foo.cpp; $contains ab foo.cpp >/dev/null 2>&1; then
 echo "Plain '$cpp' works just fine."
 cpp_trad="$cpp"
elif $cpp -traditional foo.c >foo.cpp; \
 $contains ab foo.cpp >/dev/null 2>&1; then
```

```
 echo "We'll use '$cpp -traditional' to get proper semantics."
 cpp_trad="$cpp -traditional"
else
 echo "I don't know how to get traditional semantics with '$cpp'." >&4
 cpp_trad="$cpp"
fi
$rm -f foo.c foo.cpp
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/cpp_trad.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_mkdtemp: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkdtemp:
?S: This variable conditionally defines the HAS_MKDTEMP symbol, which
?S: indicates to the C program that the mkdtemp() routine is available
?S: to exclusively create a uniquely named temporary directory.
?S:.
?C:HAS_MKDTEMP :
?C: This symbol, if defined, indicates that the mkdtemp routine is
?C: available to exclusively create a uniquely named temporary directory.
?C:.
?H:#$d_mkdtemp HAS_MKDTEMP  /**/
?H:.
?LINT:set d_mkdtemp
: see if mkdtemp exists
set mkdtemp d_mkdtemp
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_mkdtemp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sunmath.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sunmath: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sunmath:
?S: This variable conditionally defines the I_SUNMATH symbol, and indicates
?S: whether a C program should include <sunmath.h>.
?S:.
?C:I_SUNMATH:
?C: This symbol, if defined, indicates that <sunmath.h> exists and
?C: should be included.
?C:.
?H:#$i_sunmath I_SUNMATH  /**/
?H:.
?LINT:set i_sunmath
: see if this is a sunmath.h system
set sunmath.h i_sunmath
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sunmath.U
No license file was found, but licenses were detected in source scan.

Perl5 Metaconfig Units

Copyright (c) 1996-1998, Andy Dougherty
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All rights reserved.

These units are the ones used to build Configure and config_h.SH
in the Perl5 distribution.

metaconfig will first look in its standard locations (specified when you
installed dist). It will then recurse through the 'U' subdirectory
and find any additional "private" units. Private units override
standard ones supplied with metaconfig.

Files in this directory:

README
This file.

Glossary.patch
The standard dist units contain some strings that make pod2man
complain. This patch silences those warnings. As new units are
added and Configure is regenerated, this patch may need more and more
'fuzz' to be applied. It should be freshly regenerated every once

in a while. See also mkgloss.pl

ln-all.pl
Re-generate the all/ folder

mkglossary
A script
to regenerate Porting/Glossary. You have to manually
edit the top of the script to point the location of your metaconfig
units. It is called automatically by 'mksample'. See also mkgloss.pl

mkgloss.pl
A perl script that calls U/mkglossary from the perl source tree, sorts
the list of symbols, and applies the patch mentioned in Glossary.patch.
When called on its own, redirect the output to a temporary file, and
compare that file to Porting/Glossary before applying.

mksample
A script to regenerate Porting/config.sh and Porting/config.H.
It also calls mkglossary, if necessary.

Subdirectories:

The units and other related files have been broken up into the following
directories.

a_dvisory/
These are units that have to go first in the generated config_h.SH.
A word of explanation: Configure and config_h.SH are generated from 'Units'
(the *.U files). Files indicate dependencies (using make(1)), and
Configure is built to follow those dependencies.
However, config_h.SH
is simply built by putting all the units in alphabetical order and
extracting the relevant lines. (This could be fixed, I suppose, but
it wasn't trivial the one time I looked.)
The a_dvisory/ directory, then, is a place to put units that need
to be early in config_h.SH. (Most units are self-contained
and ought to be able to go anywhere. However, some things, like
byteorder, need to have the #defines from multiarch available.)

acl/
This is an old patch to begin to detect and use ACL (access
control list) file protection schemes.

all/
A folder that conveniently holds symbolic links to all the modules
that are used to build the current Configure and config_h.SH.

compline/
These are similar to the standard units, but I have modified them
to have a more uniform compile command line, usually using the
new Compile.U unit. (The ccflags.U unit is perl-specific since it
mentions -DDEBUGGING and
-DPOSIX_SOURCE, but that's the only place
it is perl-specific.)

dist_patches/
These are patches to dist that must be applied before it is built
and installed. I have submitted these for inclusion in the
regular dist distribution. They have already been applied
to the ../dist-3.0at70b directory.

ebcdic/
These are units that had to be specially modified to work under
either EBCDIC or ASCII.

installdirs/
These are units to handle perl's installation directories and
related issues.

modified/
These are modified versions of the standard units. Also included in
this directory are new units that are clearly derived from existing
units. I have submitted these for inclusion in the regular dist
distribution.

nullified/
These are null units that replace units in the standard
distribution. Typically they are there because some part of the
perl source accidentally uses a symbol that metaconfig thinks means we
want the corresponding
unit.

perl/
These are specific to perl. Some are heavily derived from
original dist units, and are marked as such. Others are original.

perl_patches/
These are patches to the perl source. This directory
should ordinarily be empty, but there may have been drift between
the standard version of perl and the one associated with these
units.

protos/
These are units modified to use the new Hasproto.U or Protochk.U
units to check for prototypes.

threads/
These are specific to threading perl.

typedefs/
These are standard units modified to use the modified Typedef.U unit to check for typedefs. (The modified Typdef.U includes a function to avoid unnecessary prompts if the typdef being searched for exists.)

Where appropriate, I submitted these units for inclusion into the regular dist distribution. However, since dist is no longer actively maintained, and the alternative is for *me* to actively maintain it, the units just
sit here.

Copyright Information:

Unless otherwise indicated, the files contained in this distribution are:

Copyright (c) 1996-1998, Andy Dougherty

The following licensing terms apply to all files contained in this distribution:

You may distribute the files contained in this distribution under the terms of either

a) the "Artistic License" which comes with Perl, or

b) the "Artistic License" which comes with dist, or

c) the GNU General Public License as published by the Free Software Foundation; either version 1, or (at your option) any later version (see the file "Copying" that comes with the Perl distribution).

Which one to use is your choice.

The units in the "modified" directory have been derived from units associated with the metaconfig program of Raphael Manfredi's "dist" distribution. These units list Raphael Manfredi as the Copyright holder. dist is distributed under a modified version of the Perl Artistic License. Clause 7 of this modified
license as contained in dist-3.0-pl60 provides:

7. You may reuse parts of this Package in your own programs, provided
that you explicitly state where you got them from, in the source code
(and, left to your courtesy, in the documentation), duplicating
all the associated copyright notices and disclaimers. Besides
your changes, if any, must be clearly marked as such. Parts reused
that way will no longer fall under this license if, and only if,
the name of your program(s) have no immediate connection with the
name of the Package itself or its associated programs. You may then
apply whatever restrictions you wish on the reused parts or choose
to place them in the Public Domain--this will apply only within the
context of your package.

In accordance with this clause, the versions of these units
contained here are made available under the same terms as the
rest of the units.

If you have any questions about the use of these units or about
the differences
between these units and the standard versions, please
feel free to ask.

Andy Dougherty doughera@lafayette.edu
Dept. of Physics
Lafayette College
Easton, PA 18042-1782

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/README
No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_truncl: Inlibc
?MAKE: -pick add $@ %<
?S:d_truncl:
?S: This variable conditionally defines the HAS_TRUNCL symbol, which
?S: indicates to the C program that the truncl() routine is available
?S: to round long doubles towards zero. If copysignl is also present,
?S: we can emulate modfl.
?S:.
?C:HAS_TRUNCL :
?C: This symbol, if defined, indicates that the truncl routine is
?C: available. If copysignl is also present we can emulate modfl.
?C:.
?H:#$d_truncl HAS_TRUNCL /**/
?H:.

```
?LINT:set d_truncl
: see if truncl exists
set truncl d_truncl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_truncl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: uidtype.U,v 3.0.1.3 1994/08/29 16:33:25 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: uidtype.U,v $
?RCS: Revision 3.0.1.3  1994/08/29  16:33:25  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20  07:09:36  ram
?RCS: patch30: comment for uidtype referred to the obsoleted symbol
?RCS:
?RCS: Revision 3.0.1.1  1994/05/13  15:28:27  ram
?RCS: patch27: made conformant to its gidtype.U companion
?RCS: patch27: question now explicitly mentions getuid()
?RCS:
?RCS: Revision 3.0  1993/08/18
  12:09:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:uidtype: Myread Typedef Findhdr
?MAKE: -pick add $@ %<
?S:uidtype:
?S: This variable defines Uid_t to be something like uid_t, int,
?S: ushort, or whatever type is used to declare user ids in the kernel.
?S:.
?C:Uid_t (UIDTYPE):
?C: This symbol holds the type used to declare user ids in the kernel.
?C: It can be int, ushort, uid_t, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Uid_t $uidtype  /* UID type */
?H:.
```

```
?T:xxx
: see what type uids are declared as in the kernel
echo " "
echo "Looking for the type for user ids returned by getuid()."
set uid_t uidtype xxx stdio.h sys/types.h
eval $typedef
case "$uidtype" in
xxx)
 xxx=`./findhdr sys/user.h`
 set `grep '_ruid;' "$xxx" 2>/dev/null` unsigned short
 case $1 in
 unsigned) dflt="$1 $2" ;;
 *) dflt="$1" ;;
 esac
 ;;
*) dflt="$uidtype";;
esac
case "$uidtype" in
uid_t) echo "uid_t found." ;;
*) rp="What
 is the type for user ids returned by getuid()?"
 . ./myread
 uidtype="$ans"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/uidtype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: myhostname.U,v 3.0.1.3 1997/02/28 16:15:55 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: myhostname.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:15:55  ram
?RCS: patch61: improved hostname lookup by using ypmatch when NIS is used
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:25:43  ram
?RCS: patch36: call ./xenix explicitly instead of relying on PATH
?RCS: patch36: now uses new Tr unit to convert to/from lowercase
```

```
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:06:20  ram
?RCS: patch30: now a little more clever for domain name guessing
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:09:18  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:myhostname phostname mydomain: contains sed test Myread Oldconfig \
 Guess Loc awk echo sort uniq +usrinc rm hostcat Tr
?MAKE: -pick add $@ %<
?S:myhostname (hostname):
?S: This variable contains the eventual value of the MYHOSTNAME symbol,
?S: which is the name of the host the program is going to run on.
?S: The domain is not kept with hostname, but must be gotten from mydomain.
?S: The dot comes with mydomain, and need not be supplied by the program.
?S:.
?S:mydomain:
?S: This variable contains the eventual value of the MYDOMAIN symbol,
?S: which is the domain of the host the program is going to run on.
?S: The domain must be appended to myhostname to form a complete host name.
?S: The dot comes with mydomain, and need not be supplied by the program.
?S:.
?S:phostname:
?S: This variable contains the eventual value of the PHOSTNAME symbol,
?S: which is a command that can be fed to popen()
 to get the host name.
?S: The program should probably not presume that the domain is or isn't
?S: there already.
?S:.
?C:MYHOSTNAME (HOSTNAME):
?C: This symbol contains name of the host the program is going to run on.
?C: The domain is not kept with hostname, but must be gotten from MYDOMAIN.
?C: The dot comes with MYDOMAIN, and need not be supplied by the program.
?C: If gethostname() or uname() exist, MYHOSTNAME may be ignored. If MYDOMAIN
?C: is not used, MYHOSTNAME will hold the name derived from PHOSTNAME.
?C:.
?C:MYDOMAIN:
?C: This symbol contains the domain of the host the program is going to
?C: run on.  The domain must be appended to HOSTNAME to form a complete
?C: host name.  The dot comes with MYDOMAIN, and need not be supplied by
?C: the program.  If the host name is derived from PHOSTNAME, the domain
?C: may or may not already be there, and the program should check.
?C:.
?H:#define MYHOSTNAME "$myhostname"  /**/
?H:#define MYDOMAIN "$mydomain"  /**/
?H:.
?LINT:extern osname
```

```
?T:cont
 i tans tmp_re
: now get the host name
echo " "
echo "Figuring out host name..." >&4
case "$myhostname" in
") cont=true
 echo 'Maybe "hostname" will work...'
 if tans=`sh -c hostname 2>&1` ; then
  myhostname=$tans
  phostname=hostname
  cont=''
 fi
 ;;
*) cont='';;
esac
if $test "$cont"; then
 if ./xenix; then
  echo 'Oh, dear.  Maybe "/etc/systemid" is the key...'
  if tans=`cat /etc/systemid 2>&1` ; then
   myhostname=$tans
   phostname='cat /etc/systemid'
   echo "Whadyaknow.  Xenix always was a bit strange..."
   cont=''
  fi
 elif $test -r /etc/systemid; then
  echo "(What is a non-Xenix system doing with /etc/systemid?)"
 fi
fi
if $test "$cont"; then
 echo 'No, maybe "uuname -l" will work...'
 if tans=`sh -c 'uuname -l' 2>&1` ; then
  myhostname=$tans
  phostname='uuname -l'
 else
  echo 'Strange.  Maybe "uname -n" will work...'
  if tans=`sh -c 'uname -n' 2>&1` ; then
   myhostname=$tans
   phostname='uname -n'
  else
   echo 'Oh well, maybe I can mine it out of whoami.h...'
   if
 tans=`sh -c $contains' sysname $usrinc/whoami.h' 2>&1` ; then
    myhostname=`echo "$tans" | $sed 's/^.*"\(.*\)"/\1/'`
    phostname="sed -n -e ""/sysname/s/^.*\"\\(.*\\)\"/\1/{"" -e p -e q -e '}' <$usrinc/whoami.h"
   else
    case "$myhostname" in
    ") echo "Does this machine have an identity crisis or something?"
```

```
     phostname=";;
    *)
     echo "Well, you said $myhostname before..."
     phostname='echo $myhostname';;
    esac
   fi
  fi
 fi
fi
case "$myhostname" in
") myhostname=noname ;;
esac
: you do not want to know about this
set $myhostname
myhostname=$1

: verify guess
if $test "$myhostname" ; then
 dflt=y
 rp='Your host name appears to be "'$myhostname'".' Right?"
 . ./myread
 case "$ans" in
 y*) ;;
 *) myhostname=";;
 esac
fi

: bad guess or no guess
while $test "X$myhostname" = X ; do
 dflt="
 rp="Please type the (one word) name of your host:"
 . ./myread
 myhostname="$ans"
done

: translate upper to lower if necessary
case "$myhostname" in
*[A-Z]*)
 echo
 "(Normalizing case in your host name)"
 myhostname=`echo $myhostname | ./tr '[A-Z]' '[a-z]'`
 ;;
esac

?X: Do not ask for domain name if this is not used later on. In that
?X: case, the hostname may keep its domain name, but it doesn't matter.
@if MYDOMAIN || mydomain
case "$myhostname" in
```

```
*.*)
 dflt=`expr "X$myhostname" : "X[^.]*\(\..*\)"`
 myhostname=`expr "X$myhostname" : "X\([^.]*\)\."`
 echo "(Trimming domain name from host name--host name is now $myhostname)"
 ;;
*) case "$mydomain" in
 ")
?X:
?X: There is currently no way to say we do not want hostcat if mydomain is not
?X: used. One way to achieve that would be to put that code in a mydomain.U
?X: unit. However, we want to stick the sanity checks right after the domain
?X: name computation, or if none is done, right after the hostname computation.
?X:
  {
?X: If we use NIS, try ypmatch.
   test "X$hostcat" = "Xypcat hosts" &&
   ypmatch "$myhostname" hosts 2>/dev/null |\
    $sed -e 's/[  ]*#.*//; s/$/ /' > hosts
 && \
   $test -s hosts
  } || {
?X: Extract only the relevant hosts, reducing file size,
?X: remove comments, insert trailing space for later use.
?X: Test to be sure we *have* a hostcat command.  os390 doesn't.
   test "X$hostcat" != "X" &&
   $hostcat | $sed -n -e "s/[  ]*#.*//; s/\$/ /
     /[  ]$myhostname[ . ]/p" > hosts
  }
  tmp_re="[ . ]"
  if $test -f hosts; then
   $test x`$awk "/[0-9].*[  ]$myhostname$tmp_re/ { sum++ }
        END { print sum }" hosts` = x1 || tmp_re="[  ]"
   dflt=.`$awk "/[0-9].*[  ]$myhostname$tmp_re/ {for(i=2; i<=NF;i++) print \\\$i}" \
    hosts | $sort | $uniq | \
    $sed -n -e "s/$myhostname\.\([-a-zA-Z0-9_.]\)/\1/p"`
   case `$echo X$dflt` in
   X*\ *) echo "(Several hosts in the database matched hostname)"
    dflt=.
    ;;
   X.) echo "(You do not have fully-qualified names in the hosts database)"
    ;;
   esac
  else
   echo "(I cannot locate a hosts database anywhere)"
   dflt=.
  fi
  case "$dflt" in
  .)
```

```
  tans=`./loc resolv.conf X /etc /usr/etc`
  if
 $test -f "$tans"; then
   echo "(Attempting domain name extraction from $tans)"
?X: Look for either a search or a domain directive.
   dflt=.`$sed -n -e 's/ / /g' \
     -e 's/^search  *\([^ ]*\).*/\1/p' $tans \
     -e 1q 2>/dev/null`
   case "$dflt" in
   .) dflt=.`$sed -n -e 's/ / /g' \
        -e 's/^domain  *\([^ ]*\).*/\1/p' $tans \
        -e 1q 2>/dev/null`
    ;;
   esac
  fi
  ;;
 esac
 case "$dflt" in
 .) echo "(No help from resolv.conf either -- attempting clever guess)"
  dflt=.`sh -c domainname 2>/dev/null`
  case "$dflt" in
  ") dflt='.';;
  .nis.*|.yp.*|.main.*) dflt=`echo $dflt | $sed -e 's/^\.[^.]*//'`;;
  esac
  ;;
 esac
 case "$dflt$osname" in
 .os390) echo "(Attempting domain name extraction from //'SYS1.TCPPARMS(TCPDATA)')"
  dflt=.`awk '/^DOMAINORIGIN/ {print $2}' "//'SYS1.TCPPARMS(TCPDATA)'" 2>/dev/null`
  ;;
 esac
 case "$dflt" in
 .) echo "(Lost all hope -- silly guess then)"
  dflt='.nonet'
  ;;
 esac
 $rm -f hosts
 ;;
*)
 dflt="$mydomain";;
 esac;;
esac
echo " "
rp="What is your domain name?"
. ./myread
tans="$ans"
case "$ans" in
") ;;
```

```
.*) ;;
*) tans=".$tans";;
esac
mydomain="$tans"

: translate upper to lower if necessary
case "$mydomain" in
*[A-Z]*)
 echo "(Normalizing case in your domain name)"
 mydomain=`echo $mydomain | ./tr '[A-Z]' '[a-z]'`
 ;;
esac

@end
: a little sanity check here
case "$phostname" in
") ;;
*)
 case `$phostname | ./tr '[A-Z]' '[a-z]'` in
 $myhostname$mydomain|$myhostname) ;;
 *)
  case "$phostname" in
  sed*)
   echo "(That doesn't agree with your whoami.h file, by the way.)"
   ;;
  *)
   echo "(That doesn't agree with your $phostname command, by the way.)"
   ;;
  esac
 ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/myhostname.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_chroot.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_chroot.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:17  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_chroot: Inlibc
?MAKE: -pick add $@ %<
?S:d_chroot:
?S: This variable conditionally defines the HAS_CHROOT symbol, which
?S: indicates to the C program that the chroot() routine is available.
?S:.
?C:HAS_CHROOT :
?C: This symbol, if defined, indicates that the chroot routine
 is
?C: available.
?C:.
?H:#$d_chroot HAS_CHROOT  /**/
?H:.
?LINT:set d_chroot
: see if chroot exists
set chroot d_chroot
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_chroot.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Options.U,v $
?RCS: Revision 3.0.1.7  1997/02/28  15:08:15  ram
?RCS: patch61: optdef.sh now starts with a "startsh"
?RCS: patch61: moved some code from Head.U
?RCS:
?RCS: Revision 3.0.1.6  1995/09/25  09:14:46  ram
?RCS: patch59: protected option parsing code against 'echo -*' option failure
?RCS:
```

```
?RCS: Revision 3.0.1.5  1995/05/12  12:04:52  ram
?RCS: patch54: added -K option for experts
?RCS:
?RCS: Revision 3.0.1.4  1995/01/30  14:27:52  ram
?RCS: patch49: this unit now exports file optdef.sh,
 not a variable
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:19:00  ram
?RCS: patch45: new -O option allowing -D and -U to override config.sh settings
?RCS: patch45: file optdef.sh is no longer removed after sourcing
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  15:58:06  ram
?RCS: patch36: ensure option definition file is removed before appending
?RCS: patch36: protect variable definitions with spaces in them
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:55:44  ram
?RCS: patch30: now uses new me symbol to tag error messages
?RCS: patch30: new -D and -U options to define/undef symbols (JHI)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Command line parsing. It is really important that the variables used here
?X: be not listed in the MAKE line, or they will be saved in config.sh and
?X: loading this file to fetch default answers would clobber the values set
?X: herein.
?X:
?MAKE:Options: startsh
?MAKE: -pick wipe $@ %<
?V:reuseval
 alldone error realsilent silent extractsh fastread \
 override knowitall: config_sh
?T:arg argn symbol config_arg0 config_args config_argc xxx yyy zzz uuu
?T:args_exp args_sep arg_exp
?F:!Configure
?F:./optdef.sh ./cmdline.opt ./posthint.sh ./cmdl.opt
: Save command line options in file UU/cmdline.opt for later use in
: generating config.sh.
?X: This temporary file will be read by Oldsym.U.  I used a temporary
?X: file to preserve all sorts of potential command line quotes and
?X: also because we don't know in advance how many variables we'll
?X: need, so I can't actually declare them on the MAKE line.
?X: The config_args variable won't be quite correct if Configure is
?X: fed something like    ./Configure -Dcc="gcc -B/usr/ccs/bin/"
?X: since the quotes are gone by the time we see them.  You'd have to
?X: reconstruct the command line from the config_arg? lines, but since
?X: I don't imagine anyone actually having to do that, I'm not going
```

```
?X: to worry too much.
cat > cmdline.opt
 <<EOSH
: Configure command line arguments.
config_arg0='$0'
config_args='$*'
config_argc=$#
EOSH
argn=1
args_exp=''
args_sep=''
for arg in "$@"; do
 cat >>cmdline.opt <<EOSH
config_arg$argn='$arg'
EOSH
?X: Extreme backslashitis: replace each ' by '''''
 cat <<EOC | sed -e "s/'/'''''''''''''''/g" > cmdl.opt
$arg
EOC
 arg_exp=`cat cmdl.opt`
 args_exp="$args_exp$args_sep'$arg_exp'"
 argn=`expr $argn + 1`
 args_sep=' '
done
?X: args_exp is good for restarting self: eval "set X $args_exp"; shift; $0 "$@"
?X: used by hints/os2.sh in Perl, for instance
rm -f cmdl.opt

: produce awk script to parse command line options
cat >options.awk <<'EOF'
BEGIN {
 optstr = "A:dD:eEf:hKOrsSU:V"; # getopt-style specification

 len = length(optstr);
 for (i = 1; i <= len; i++) {
  c = substr(optstr, i, 1);
?X: some older awk's do not have the C ?: construct
  if (i < len) a = substr(optstr, i + 1, 1); else a = "";
  if (a == ":") {
   arg[c] = 1;
   i++;
  }
  opt[c] = 1;
 }
}
{
 expect = 0;
 str = $0;
```

```
 if (substr(str,
 1, 1) != "-") {
  printf("'%s'\n", str);
  next;
 }
 len = length($0);
 for (i = 2; i <= len; i++) {
  c = substr(str, i, 1);
  if (!opt[c]) {
   printf("-%s\n", substr(str, i));
   next;
  }
  printf("-%s\n", c);
  if (arg[c]) {
   if (i < len)
    printf("'%s'\n", substr(str, i + 1));
   else
    expect = 1;
   next;
  }
 }
}
END {
 if (expect)
  print "?";
}
EOF

: process the command line options
?X: Use "$@" to keep arguments with spaces in them from being split apart.
?X: For the same reason, awk will output quoted arguments and the final eval
?X: removes them and sets a proper $* array. An 'X' is prependend to each
?X: argument before being fed to echo to guard against 'echo -x', where -x
?X: would be understood as an echo option! It is removed before feeding awk.
set X `for arg in "$@"; do echo "X$arg"; done |
 sed -e s/X// | awk -f options.awk`
eval "set $*"
shift
rm -f options.awk

: set up default values
fastread=''
reuseval=false
config_sh=''
alldone=''
error=''
silent=''
extractsh=''
```

```
override=''
knowitall=''
rm
 -f optdef.sh posthint.sh
cat >optdef.sh <<EOS
$startsh
EOS

?X:
?X: Given that we now have the possibility to execute Configure remotely
?X: thanks to the new src.U support, we have to face the possibility
?X: of having to ask where the source lie, which means we need the Myread.U
?X: stuff and possibly other things that might echo something on the
?X: screen...
?X:
?X: That's not pretty, and might be confusing in 99% of the time. So...
?X: We introduce a new realsilent variable which is set when -s is given,
?X: and we force silent=true if -S is supplied. The Extractall.U unit
?X: will then undo the >&4 redirection based on the value of the
?X: realsilent variable... -- RAM, 18/93/96
?X:

: option parsing
while test $# -gt 0; do
 case "$1" in
 -d) shift; fastread=yes;;
 -e) shift; alldone=cont;;
 -f)
  shift
  cd ..
  if test -r "$1"; then
   config_sh="$1"
  else
   echo "$me: cannot read config file $1." >&2
   error=true
  fi
  cd UU
  shift;;
 -h)
 shift; error=true;;
 -r) shift; reuseval=true;;
 -s) shift; silent=true; realsilent=true;;
 -E) shift; alldone=exit;;
 -K) shift; knowitall=true;;
 -O) shift; override=true;;
 -S) shift; silent=true; extractsh=true;;
 -D)
  shift
```

```
 case "$1" in
 *=)
  echo "$me: use '-U symbol=', not '-D symbol='." >&2
  echo "$me: ignoring -D $1" >&2
  ;;
 *=*) echo "$1" | \
   sed -e "s/'/'\''\''/g" -e "s/=\(.*\)/='\1'/" >> optdef.sh;;
 *) echo "$1='define'" >> optdef.sh;;
 esac
 shift
 ;;
-U)
 shift
 case "$1" in
 *=) echo "$1" >> optdef.sh;;
 *=*)
  echo "$me: use '-D symbol=val', not '-U symbol=val'." >&2
  echo "$me: ignoring -U $1" >&2
  ;;
 *) echo "$1='undef'" >> optdef.sh;;
 esac
 shift
 ;;
-A)
   shift
   xxx=''
   yyy="$1"
   zzz=''
   uuu=undef
   case "$yyy" in
        *=*) zzz=`echo "$yyy"|sed 's!=.*!!'`
             case "$zzz" in
             *:*) zzz='' ;;
             *)   xxx=append
                  zzz=' '`echo
"$yyy"|sed 's!^[^=]*=!!'`
                  yyy=`echo "$yyy"|sed 's!=.*!!'` ;;
             esac
             ;;
        esac
        case "$xxx" in
        '')  case "$yyy" in
             *:*) xxx=`echo "$yyy"|sed 's!:.*!!'`
                  yyy=`echo "$yyy"|sed 's!^[^:]*:!!'`
                  zzz=`echo "$yyy"|sed 's!^[^=]*=!!'`
                  yyy=`echo "$yyy"|sed 's!=.*!!'` ;;
             *)   xxx=`echo "$yyy"|sed 's!:.*!!'`
                  yyy=`echo "$yyy"|sed 's!^[^:]*:!!'` ;;
```

```
            esac
            ;;
        esac
    case "$xxx" in
    append)
 echo "$yyy=\"\${$yyy}$zzz\"" >> posthint.sh ;;
    clear)
 echo "$yyy=""   >> posthint.sh ;;
    define)
        case "$zzz" in
 ") zzz=define ;;
 esac
 echo "$yyy='$zzz'"  >> posthint.sh ;;
    eval)
 echo "eval \"$yyy=$zzz\"" >> posthint.sh ;;
    prepend)
 echo "$yyy=\"$zzz\${$yyy}\"" >> posthint.sh ;;
    undef)
        case "$zzz" in
 ")
zzz="$uuu" ;;
 esac
 echo "$yyy=$zzz"  >> posthint.sh ;;
         *)  echo "$me: unknown -A command '$xxx', ignoring -A $1" >&2 ;;
    esac
    shift
    ;;
 -V) echo "$me generated by metaconfig <VERSION> PL<PATCHLEVEL>." >&2
    exit 0;;
 --) break;;
 -*) echo "$me: unknown option $1" >&2; shift; error=true;;
 *) break;;
 esac
done

case "$error" in
true)
 cat >&2 <<EOM
Usage: $me [-dehrsEKOSV] [-f config.sh] [-D symbol] [-D symbol=value]
            [-U symbol] [-U symbol=] [-A command:symbol...]
 -d : use defaults for all answers.
 -e : go on without questioning past the production of config.sh.
 -f : specify an alternate default configuration file.
 -h : print this help message and exit (with an error status).
 -r : reuse C symbols value if possible (skips costly nm extraction).
 -s : silent mode, only echoes questions and essential information.
 -D : define symbol to have some value:
      -D symbol         symbol gets the value 'define'
```

```
        -D symbol=value
   symbol gets the value 'value'
 -E : stop at the end of questions, after having produced config.sh.
 -K : do not use unless you know what you are doing.
 -O : let -D and -U override definitions from loaded configuration file.
 -S : perform variable substitutions on all .SH files (can mix with -f)
 -U : undefine symbol:
        -U symbol    symbol gets the value 'undef'
        -U symbol=   symbol gets completely empty
 -A : manipulate symbol after the platform specific hints have been applied:
  -A symbol=value  append " "value to symbol
  -A append:symbol=value  append value to symbol
  -A define:symbol=value  define symbol to have value
        -A clear:symbol  define symbol to be ''
  -A define:symbol  define symbol to be 'define'
  -A eval:symbol=value  define symbol to be eval of value
  -A prepend:symbol=value prepend value to symbol
  -A undef:symbol  define symbol to be 'undef'
  -A undef:symbol=  define symbol to be ''
 -V : print version number and exit (with
 a zero status).
EOM
 exit 1
 ;;
esac

?X:
?X: Unless they specified either -S or both -d and -e/E, make sure we're
?X: running interactively, i.e. attached to a terminal. Moved from Head.U to
?X: be able to handle batch configurations...
?X:
?X: We have to hardwire the Configure name and cannot use $me, since if they
?X: said 'sh <Configure', then $me is 'sh'...
?X:
: Sanity checks
case "$fastread$alldone" in
yescont|yesexit) ;;
*)
 case "$extractsh" in
 true) ;;
 *)
  if test ! -t 0; then
   echo "Say 'sh Configure', not 'sh <Configure'"
   exit 1
  fi
  ;;
 esac
 ;;
```

```
esac

?X: In silent mode, the standard output is closed. Questions are asked by
?X: outputing on file descriptor #4, which is the original stdout descriptor.
?X: This filters out all the "junk", since all the needed information is written
?X: on #4. Note that ksh will not let us redirect output if the file descriptor
?X: has not be defined yet, unlike sh, hence the following line...--RAM.
exec 4>&1
case "$silent" in
true)
 exec 1>/dev/null;;
esac

: run the defines and the undefines, if any, but leave the file out there...
touch optdef.sh
. ./optdef.sh
: create the posthint manipulation script and leave the file out there...
?X: this file will be perused by Oldconfig.U
touch posthint.sh
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Options.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: n.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: n.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:n c: contains
?MAKE: -pick add $@ %<
?S:n:
?S: This variable contains the -n flag if that is what causes the echo
?S: command to suppress newline.  Otherwise it is null.  Correct usage is
?S:     $echo $n "prompt for a question: $c".
?S:.
?S:c:
?S: This variable contains the \c string if that is what causes the echo
```

```
?S: command to suppress newline.
  Otherwise it is null.  Correct usage is
?S:     $echo $n "prompt for a question: $c".
?S:.
: first determine how to suppress newline on echo command
echo " "
echo "Checking echo to see how to suppress newlines..."
(echo "hi there\c" ; echo " ") >.echotmp
if $contains c .echotmp >/dev/null 2>&1 ; then
 echo "...using -n."
 n='-n'
 c=''
else
 cat <<'EOM'
...using \c
EOM
 n=''
 c='\c'
fi
echo $n "The star should be here-->$c"
echo '*'
rm -f .echotmp
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/n.U
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```
?RCS: Copyright (c) 2012-2012, H.Merijn Brand
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: H.Merijn Brand
?RCS:
?MAKE:d_isblank: cc cat ccflags ldflags rm libs Setvar
?MAKE: -pick add $@ %<
?S:d_isblank:
?S: This variable conditionally defines the HAS_ISBLANK constant,
?S: which indicates to the C program that isblank() is available.
?S:.
?C:HAS_ISBLANK:
?C: This manifest constant lets the C program know that isblank
?C: is available.
?C:.
```

```
?H:#$d_isblank HAS_ISBLANK  /**/
?H:.
?LINT:set d_isblank
?X: Can't use Inlibc because isblank() might be a macro.
: Look for isblank
echo " "
$cat >isblank.c <<'EOCP'
#include
 <stdio.h>
#include <ctype.h>
int main() {
 int c = ' ';
 if (isblank(c))
  return 0 ;
 else
  return 1 ;
}
EOCP
if $cc $ccflags $ldflags -o isblank isblank.c $libs >/dev/null 2>&1 ; then
 echo "isblank() found." >&4
 val="$define"
else
 echo "isblank() NOT found." >&4
 val="$undef"
fi
set d_isblank
eval $setvar
$rm -f isblank*
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_isblank.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_perlio.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_perlio.U,v $
?RCS:
?MAKE:useperlio: Myread Oldconfig Setvar
?MAKE: -pick add $@ %<
?Y:TOP
?S:useperlio:
?S: This variable conditionally defines the USE_PERLIO symbol,
```

```
?S: and indicates that the PerlIO abstraction should be
?S: used throughout.
?S:.
?C:USE_PERLIO:
?C: This symbol, if defined, indicates that the PerlIO abstraction should
?C: be used throughout.  If not defined, stdio should be
?C: used in a fully backward compatible manner.
?C:.
?H:?%<:#ifndef USE_PERLIO
?H:?%<:#$useperlio USE_PERLIO  /**/
?H:?%<:#endif
?H:.
: Check if we want perlio
useperlio="$define"
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/useperlio.U
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```
/*
* $Id: getopt.C,v 3.0.1.1 1994/01/24 13:58:40 ram Exp ram $
*
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*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* Original Author: unknown, got this off net.sources
*
* $Log: getopt.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:40  ram
* patch16: created
*
*/
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/getopt.C
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_safemcpy.U,v 3.0.1.5 1997/02/28 15:41:12 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
```

```
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_safemcpy.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  15:41:12  ram
?RCS: patch61: improved overlapping copy check
?RCS: patch61: comfort them if they have memmove
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.4  1995/07/25  13:58:46  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.3  1995/03/21  08:47:26  ram
?RCS: patch52: swapped two first arguments of memcpy() calls
?RCS:
?RCS:
 Revision 3.0.1.2  1994/10/29  16:15:10  ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:53:12  ram
?RCS: patch23: ensure string is not optimized in read-only memory (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_safemcpy: Compile cat d_memcpy rm_try run \
 d_memmove i_memory i_stdlib i_string i_unistd Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_safemcpy:
?S: This variable conditionally defines the HAS_SAFE_MEMCPY symbol if
?S: the memcpy() routine can do overlapping copies.
?S: For overlapping copies, memmove() should be used, if available.
?S:.
?C:HAS_SAFE_MEMCPY (SAFE_MEMCPY):
?C: This symbol, if defined, indicates that the memcpy routine is available
?C: to copy potentially overlapping memory blocks.  If you need to
?C: copy overlapping memory blocks, you should check HAS_MEMMOVE and
?C: use memmove() instead, if available.
?C:.
?H:#$d_safemcpy HAS_SAFE_MEMCPY /**/
?H:.
?F:!try
?LINT:
 set d_safemcpy
: can memcpy handle overlapping blocks?
```

```
echo " "
?X: assume the worst
val="$undef"
case "$d_memmove" in
"$define") echo "I'll use memmove() instead of memcpy() for overlapping copies." ;;
*) case "$d_memcpy" in
 "$define")
  echo "Checking to see if memcpy() can do overlapping copies..." >&4
  $cat >try.c <<EOCP
#$i_memory I_MEMORY
#$i_stdlib I_STDLIB
#$i_string I_STRING
#$i_unistd I_UNISTD
EOCP
 $cat >>try.c <<'EOCP'
#include <stdio.h>
#ifdef I_MEMORY
#  include <memory.h>
#endif
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#ifdef I_STRING
#  include <string.h>
#else
#  include <strings.h>
#endif
#ifdef I_UNISTD
#  include <unistd.h>  /* Needed for NetBSD */
#endif
int main()
{
char buf[128], abc[128];
char *b;
int len;
int off;
int align;

/* Copy "abcde..." string to char abc[] so that gcc doesn't
  try to store the string in read-only memory. */
memcpy(abc, "abcdefghijklmnopqrstuvwxyz0123456789", 36);

for (align = 7; align >=
 0; align--) {
 for (len = 36; len; len--) {
  b = buf+align;
  memcpy(b, abc, len);
  for (off = 1; off <= len; off++) {
```

```
   memcpy(b+off, b, len);
   memcpy(b, b+off, len);
   if (memcmp(b, abc, len))
    exit(1);
  }
 }
}
exit(0);
}
EOCP
  set try
  if eval $compile_ok; then
   if $run ./try 2>/dev/null; then
    echo "Yes, it can."
    val="$define"
   else
    echo "It can't, sorry."
   fi
  else
   echo "(I can't compile the test program, so we'll assume not...)"
  fi
  ;;
 esac
 $rm_try
 ;;
esac
set d_safemcpy
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_safemcpy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:sitehtml3dir sitehtml3direxp installsitehtml3dir: Getfile \
 Setprefixvar prefix siteprefix html3dir sed
?MAKE: -pick add $@ %<
?Y:TOP
```

```
?D:sitehtml3dir="
?S:sitehtml3dir:
?S: This variable contains the name of the directory in which site-specific
?S: library html source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S: The standard distribution will put nothing in this directory.
?S: After
 perl has been installed, users may install their own local
?S: library html pages in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitehtml3direxp="
?S:sitehtml3direxp:
?S: This variable is the same as the sitehtml3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsitehtml3dir="
?S:installsitehtml3dir:
?S: This variable is really the same as sitehtml3direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: html3direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installsitehtml3dir
?LINT:set sitehtml3dir
?LINT:set sitehtml3direxp
: determine where add-on library html pages go
: There is no standard location, so try to copy the previously-selected
: directory structure for the core html pages.
case
 "$sitehtml3dir" in
")    dflt=`echo "$html3dir" | $sed "s#^$prefix#$siteprefix#"` ;;
*)     dflt=$sitehtml3dir ;;
esac
case "$dflt" in
"|' ') dflt=none ;;
esac
fn=dn+~
rp='Pathname where the site-specific library html pages should be installed?'
. ./getfile
prefixvar=sitehtml3dir
. ./setprefixvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/U/installdirs/sitehtml3dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorarch.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorarch.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:d_vendorarch vendorarch vendorarchexp installvendorarch: sed Getfile \
 Setprefixvar Oldconfig Prefixit archname vendorlib vendorprefix test
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorarch:
?S: This variable contains the value of the PERL_VENDORARCH symbol.
?S: It may have a ~ on the front.
?S: The standard distribution will put nothing in this directory.
?S: Vendors
 who distribute perl may wish to place their own
?S: architecture-dependent modules and extensions in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorarchexp:
?S: This variable is the ~name expanded version of vendorarch, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorarch=''
?S:installvendorarch:
?S: This variable is really the same as vendorarchexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?S:d_vendorarch:
?S: This variable conditionally defined PERL_VENDORARCH.
?S:.
?C:PERL_VENDORARCH:
?C: If defined, this symbol contains the name of a private library.
?C: The library is private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.
```

```
?C: It may have a ~ on the front.
?C: The standard distribution will put nothing in this
 directory.
?C: Vendors who distribute perl may wish to place their own
?C: architecture-dependent modules and extensions in this directory with
?C:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?C: or equivalent.  See INSTALL for details.
?C:.
?C:PERL_VENDORARCH_EXP:
?C: This symbol contains the ~name expanded version of PERL_VENDORARCH, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#$d_vendorarch PERL_VENDORARCH "$vendorarch"  /**/
?H:#$d_vendorarch PERL_VENDORARCH_EXP "$vendorarchexp"  /**/
?H:.
?LINT:change prefixvar
?LINT:set installvendorarch
: Set the vendorarch variables
case "$vendorprefix" in
") d_vendorarch="$undef"
 vendorarch="
 vendorarchexp="
 ;;
*) d_vendorarch="$define"
 : determine where vendor-supplied architecture-dependent libraries go.
 : vendorlib  default is /usr/local/lib/perl5/vendor_perl/$version
 : vendorarch default is /usr/local/lib/perl5/vendor_perl/$version/$archname
 : vendorlib may have an optional trailing
 /share.
 case "$vendorarch" in
 ") dflt=`echo $vendorlib | $sed 's,/share$,,'`
  dflt="$dflt/$archname"
  ;;
 *) dflt="$vendorarch" ;;
 esac
 fn=d~+
 rp='Pathname for vendor-supplied architecture-dependent files?'
 . ./getfile
 vendorarch="$ans"
 vendorarchexp="$ansexp"
 ;;
esac
prefixvar=vendorarch
. ./installprefix
if $test X"$vendorarch" = X"$vendorlib"; then
 d_vendorarch="$undef"
else
 d_vendorarch="$define"
```

```
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/vendorarch.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sitecustomize.U,v $
?RCS:
?RCS: Copyright (c) 2005-2006 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_sitecustomize.U,v $
?RCS:
?MAKE:usesitecustomize: Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:usesitecustomize:
?S: This variable is set to true when the user requires a mechanism that
?S: allows the sysadmin to add entries to @INC at runtime.  This variable
?S: being set, makes perl run '$sitelib/sitecustomize.pl' at startup.
?S:.
?C:USE_SITECUSTOMIZE:
?C: This symbol, if defined, indicates that sitecustomize should
?C: be used.
?C:.
?H:?%<:@if USE_SITECUSTOMIZE
?H:?%<:#ifndef USE_SITECUSTOMIZE
?H:?%<:#$usesitecustomize USE_SITECUSTOMIZE  /**/
?H:?%<:#endif
?H:?%<:@end
?H:.
: Check if site customization support was requested
case "$usesitecustomize" in
   $define|true|[Yy]*)
 usesitecustomize="$define"
 ;;
    *)
 usesitecustomize="$undef"
 ;;
   esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sitecustomize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_malloc.U,v 3.1 2003/01/21 18:51:51 merijn Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: i_malloc.U,v $
?RCS: Revision 3.1  2003/01/21  18:51:51  merijn
?RCS: Moved to modified: Ihdr replaced with Compile
?RCS:
?RCS: $Log: i_malloc.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:21  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_malloc: cat rm_try Compile Setvar i_mallocmalloc
?MAKE: -pick add $@ %<
?S:i_malloc:
?S: This variable conditionally defines the I_MALLOC symbol, and indicates
?S: whether a C program should include <malloc.h>.
?S:.
?C:I_MALLOC:
?C: This
 symbol, if defined, indicates to the C program that it should
?C: include <malloc.h>.
?C:.
?H:#$i_malloc I_MALLOC  /**/
?H:.
?LINT:set i_malloc
: see if this is a malloc.h system
: we want a real compile instead of Inhdr because some systems have a
: malloc.h that just gives a compile error saying to use stdlib.h instead
echo " "
$cat >try.c <<EOCP
#include <stdlib.h>
#include <malloc.h>
#$i_mallocmalloc I_MALLOCMALLOC
#ifdef I_MALLOCMALLOC
# include <malloc/malloc.h>
#endif

int main () { return 0; }
EOCP
set try
if eval $compile; then
```

```
   echo "<malloc.h> found." >&4
   val="$define"
else
   echo "<malloc.h> NOT found." >&4
   val="$undef"
fi
$rm_try
set i_malloc
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_malloc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sbrktype.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sbrktype.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:43  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:sbrktype: Myread Oldconfig Loc contains Findhdr
?MAKE: -pick add $@ %<
?S:sbrktype:
?S: This variable defines sbrktype to be something like caddr_t, char *,
?S: or whatever type is used to declare sbrk() in the kernel.
?S:.
?C:Caddr_t (SBRKTYPE):
?C: This symbol holds the type of a core address. It is inteded to be used
?C: to safely
 declare the return type of system calls like sbrk(). It might
?C: be necessary to include <sys/types.h> as well.
?C:.
?H:#define Caddr_t $sbrktype /* <core address> type */
?H:.
: see what type sbrk is declared as in the kernel
case "$sbrktype" in
")
 if $contains 'caddr_t;' `./findhdr sys/types.h` >/dev/null 2>&1 ; then
  dflt='caddr_t';
```

```
 else
  dflt='char *';
 fi
 ;;
*)  dflt="$sbrktype"
 ;;
esac
echo " "
rp="What is the return type of sbrk() on this system?"
. ./myread
sbrktype="$ans"
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/sbrktype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_group.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_group.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:34:52  ram
?RCS: patch61: useless unit dropped.
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:48  ram
?RCS: patch32: created by ADO
?RCS:
?X:
?X: Useless unit dropped.
?X:
?LINT:empty
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_group.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_time.U,v 3.0.1.2 1995/07/25 14:07:43 ram Exp $
?RCS:
```

```
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_time.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:07:43  ram
?RCS: patch56: typo fix, sytem -> system
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:16:38  ram
?RCS: patch36: now uses new Typedef unit to compute type information (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X: Maybe <sys/types.h> should be included?
?X:INC: i_systypes
?MAKE:d_time timetype: Csym Setvar Findhdr Myread Typedef
?MAKE: -pick
 add $@ %<
?S:d_time:
?S: This variable conditionally defines the HAS_TIME symbol, which indicates
?S: that the time() routine exists.  The time() routine is normally
?S: provided on UNIX systems.
?S:.
?S:timetype:
?S: This variable holds the type returned by time(). It can be long,
?S: or time_t on BSD sites (in which case <sys/types.h> should be
?S: included). Anyway, the type Time_t should be used.
?S:.
?C:HAS_TIME (TIMER):
?C: This symbol, if defined, indicates that the time() routine exists.
?C:.
?C:Time_t (TIMETYPE):
?C: This symbol holds the type returned by time(). It can be long,
?C: or time_t on BSD sites (in which case <sys/types.h> should be
?C: included).
?C:.
?H:#$d_time HAS_TIME  /**/
?H:#define Time_t $timetype  /* Time type */
?H:.
?LINT:set d_time
: see if time exists
echo " "
?X: MPE/iX needs this protection of hint values.
```

```
?X: See d_sterror.U for more explanation.
if test "X$d_time" = X -o X"$timetype" = X; then
   if set time val -f d_time; eval $csym; $val;
 then
  echo 'time() found.' >&4
  val="$define"
  rp="What is the type returned by time() on this system?"
  set time_t timetype long stdio.h sys/types.h
  eval $typedef_ask
   else
  echo 'time() not found, hope that will do.' >&4
  val="$undef"
  timetype='int';
   fi
   set d_time
   eval $setvar
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/d_time.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isfinitel: Inlibc
?MAKE: -pick add $@ %<
?S:d_isfinitel:
?S: This variable conditionally defines the HAS_ISFINITEL symbol, which
?S: indicates to the C program that the isfinitel() routine is available.
?S:.
?C:HAS_ISFINITEL:
?C: This symbol, if defined, indicates that the isfinitel routine is
?C: available to check whether a long double is finite.
?C: (non-infinity non-NaN).
?C:.
?H:#$d_isfinitel HAS_ISFINITEL  /**/
?H:.
?LINT:set d_isfinitel
: see if isfinitel exists
set isfinitel d_isfinitel
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_isfinitel.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_inetaton.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Spider Boardman
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_inetaton.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:36:35  ram
?RCS: patch61: created
?RCS:
?MAKE:d_inetaton: Inlibc
?MAKE: -pick add $@ %<
?S:d_inetaton:
?S: This variable conditionally defines the HAS_INET_ATON symbol, which
?S: indicates to the C program that the inet_aton() function is available
?S: to parse IP address "dotted-quad" strings.
?S:.
?C:HAS_INET_ATON:
?C: This symbol, if defined, indicates
 to the C program that the
?C: inet_aton() function is available to parse IP address "dotted-quad"
?C: strings.
?C:.
?H:#$d_inetaton HAS_INET_ATON  /**/
?H:.
?LINT:set d_inetaton
: check whether inet_aton exists
set inet_aton d_inetaton
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_inetaton.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_lstat.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_lstat.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:28  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_lstat: Inlibc
?MAKE: -pick add $@ %<
?S:d_lstat:
?S: This variable conditionally defines HAS_LSTAT if lstat() is
?S: available to do file stats on symbolic links.
?S:.
?C:HAS_LSTAT (LSTAT):
?C: This symbol, if defined, indicates that the lstat routine is
?C: available to do file stats on symbolic links.
?C:.
?H:#$d_lstat HAS_LSTAT  /**/
?H:.
?LINT:set
 d_lstat
: see if lstat exists
set lstat d_lstat
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_lstat.U
No license file was found, but licenses were detected in source scan.

Perl5 Metaconfig Units

Copyright (c) 1996-1998, Andy Dougherty
Copyright (c) 1999-2011, H.Merijn Brand
All rights reserved.

These units are the ones I used to build Configure and config_h.SH
in the Perl5 distribution.

The Configure script and config_h.SH file in the Perl distribution are
generated by a program called metaconfig. To run metaconfig, you will
need the full dist 3.0 distribution, maintained by Raphael Manfredi.
As of this writing, the current version is dist3.0, patchlevel 70.
Dist version dist-3.0@70.tar.gz is available on CPAN (the Comprehensive

Perl Archive Network) as
<http://www.perl.com/perl/CPAN/authors/id/RAM/dist-3.0@70.tar.gz>.

Instructions:

1. Unpack the full perl5 sources. Execute the following command

 chmod +w Configure config_h.SH Porting/Glossary Porting/config*

2. Unpack the archive containing this file in the perl5 source
   directory. This will create a directory
 'U' under the perl5
   sources. That directory will contain the metaconfig units for perl5.
   This will also create two files in the perl5 source tree:
   MANIFEST.new and .package.

3. Apply any patches to perl in the perl_patches/ directory.
   (This may well be empty.)

4. Obtain and install dist-3.0pl70.

4. Apply any patches to dist under the dist_patches subdirectory.

5. From your main perl5 source directory, run packinit to
   regenerate the .package file. IMPORTANT: Change the name and
   address of the maintainer to your own name and address. I don't
   want bug reports intended for you coming to me.

6. From your main perl5 source directory, run

 metalint (or mlint)

   and repair every failure it reports.

7. From your main perl5 source directory, run

 metaconfig -m (or mconfig -m)

8. Edit U/mkglossary and/or U/mkgloss.pl to point to your dist-3.0pl70
   location. (See comments at the top.)

9. Run the Porting/mksample script to update the contents
 of the Porting/
   subdirectory, or run all parts by hand. (see README)

   NB: this script used to be U/mksample replaced by Porting/mksample;
   see Porting/pumpkin.pod instead for current documentation on its
   use.

10. Let me know about any changes, corrections, or enhancements.

Things to watch out for:

1. Future support of better random number generators should probably
   start with the randfunc.U unit included here. It's currently
   broken, but well commented and probably a good place to start.

Descriptions:

The units and other related files have been broken up into the following
directories:

acl/
   This is an old patch to begin to detect and use ACL (access
   control list) file protection schemes.

compline/
   These are similar to the standard units, but I have modified them
   to have a more uniform compile command line, usually using the new
   Compile.U unit. I have submitted these for inclusion into the
   regular dist distribution. (The ccflags.U
 unit is actually
   perl-specific since it mentions -DDEBUGGING and -DPOSIX_SOURCE,
   but that's the only place it is perl-specific.)

dist_patches/
   These are patches to dist that must be applied before it is built
   and installed. I have submitted these for inclusion in the
   regular dist distribution.

modified/
   These are modified versions of the standard units. Also included in
   this directory are new units that are clearly derived from existing
   units. I have submitted these for inclusion in the regular dist
   distribution.

perl/
   These are specific to perl. Some are heavily derived from
   original dist units, and are marked as such. Others are original.

perl_patches/
   These are patches to the perl source. This directory
   should ordinarily be empty, but there may have been drift between
   the standard version of perl and the one associated with these
   units.

protos/
These are units modified to use the new Hasproto.U or Protochk.U units to check for prototypes. I have submitted these for inclusion into the regular dist distribution.

target/
This is the very, very beginning of cross-compiler support. It doesn't work yet, and many standard units will need modification.

typedefs/
These are standard units modified to use the modified Typedef.U unit to check for typedefs. (The modified Typdef.U includes a function to avoid unnecessary prompts if the typdef being searched for exists.) I have submitted these for inclusion into the regular dist distribution.

threads/
These are specific to threading perl.

Copyright Information:

Unless otherwise indicated, the files contained in this distribution are:

Copyright (c) 1996-1998, Andy Dougherty

The following licensing terms apply to all files contained in this distribution:

You may distribute the files contained in this distribution under the terms of either

a) the "Artistic License" which comes with Perl,
or

b) the "Artistic License" which comes with dist, or

c) the GNU General Public License as published by the Free Software Foundation; either version 1, or (at your option) any later version (see the file "Copying" that comes with the Perl distribution).

Which one to use is your choice.

The units in the "modified" directory have been derived from units associated with the metaconfig program of Raphael Manfredi's "dist" distribution. These units list Raphael Manfredi as the Copyright holder.

dist is distributed under a modified version of the Perl Artistic License.
Clause 7 of this modified license as contained in dist-3.0-pl60 provides:

7. You may reuse parts of this Package in your own programs, provided
that you explicitly state where you got them from, in the source code
(and, left to your courtesy, in the documentation), duplicating
all the associated copyright notices and disclaimers. Besides
your changes, if any, must be clearly marked
as such. Parts reused
that way will no longer fall under this license if, and only if,
the name of your program(s) have no immediate connection with the
name of the Package itself or its associated programs. You may then
apply whatever restrictions you wish on the reused parts or choose
to place them in the Public Domain--this will apply only within the
context of your package.

In accordance with this clause, the versions of these units
contained here are made available under the same terms as the
rest of the units.

If you have any questions about the use of these units or about
the differences between these units and the standard versions, please
feel free to ask.

Andy Dougherty doughera@lafayette.edu
Dept. of Physics
Lafayette College
Easton, PA 18042-1782

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/README.dist
No license file was found, but licenses were detected in source scan.

?RCS: Copyright (c) 2016 Dagfinn Ilmari Mannsker & H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_siginfo_si_errno d_siginfo_si_pid d_siginfo_si_uid d_siginfo_si_addr d_siginfo_si_status d_siginfo_si_band d_siginfo_si_value d_siginfo_si_fd: d_sigaction pidtype uidtype Hasfield_t
?MAKE: -pick add $@ %<
?S:d_siginfo_si_errno:
?S: This variable conditionally defines the HAS_SIGINFO_SI_ERRNO symbol,
?S: which indicates that the siginfo_t struct has the si_errno member.
?S:.
?S:d_siginfo_si_pid:
?S: This variable conditionally defines the HAS_SIGINFO_SI_PID symbol,

?S: which indicates that the siginfo_t struct has the si_pid member.
?S:.
?S:d_siginfo_si_uid:
?S: This variable conditionally defines the HAS_SIGINFO_SI_UID symbol,
?S: which indicates that the siginfo_t struct has the si_uid member.
?S:.
?S:d_siginfo_si_addr:
?S: This
variable conditionally defines the HAS_SIGINFO_SI_ADDR symbol,
?S: which indicates that the siginfo_t struct has the si_addr member.
?S:.
?S:d_siginfo_si_status:
?S: This variable conditionally defines the HAS_SIGINFO_SI_STATUS symbol,
?S: which indicates that the siginfo_t struct has the si_status member.
?S:.
?S:d_siginfo_si_band:
?S: This variable conditionally defines the HAS_SIGINFO_SI_BAND symbol,
?S: which indicates that the siginfo_t struct has the si_band member.
?S:.
?S:d_siginfo_si_value:
?S: This variable conditionally defines the HAS_SIGINFO_SI_VALUE symbol,
?S: which indicates that the siginfo_t struct has the si_value member.
?S:.
?S:d_siginfo_si_fd:
?S: This variable conditionally defines the HAS_SIGINFO_SI_FD symbol,
?S: which indicates that the siginfo_t struct has the si_fd member.
?S:.
?C:HAS_SIGINFO_SI_ERRNO:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_errno member
?C:.
?C:HAS_SIGINFO_SI_PID:
?C: This
symbol, if defined, indicates that siginfo_t has the
?C: si_pid member
?C:.
?C:HAS_SIGINFO_SI_UID:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_uid member
?C:.
?C:HAS_SIGINFO_SI_ADDR:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_addr member
?C:.
?C:HAS_SIGINFO_SI_STATUS:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_status member
?C:.

```
?C:HAS_SIGINFO_SI_BAND:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_band member
?C:.
?C:HAS_SIGINFO_SI_VALUE:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_value member
?C:.
?C:HAS_SIGINFO_SI_FD:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_fd member
?C:.
?H:#$d_siginfo_si_errno HAS_SIGINFO_SI_ERRNO /**/
?H:#$d_siginfo_si_pid HAS_SIGINFO_SI_PID /**/
?H:#$d_siginfo_si_uid HAS_SIGINFO_SI_UID /**/
?H:#$d_siginfo_si_addr HAS_SIGINFO_SI_ADDR /**/
?H:#$d_siginfo_si_status HAS_SIGINFO_SI_STATUS /**/
?H:#$d_siginfo_si_band HAS_SIGINFO_SI_BAND /**/
?H:#$d_siginfo_si_value HAS_SIGINFO_SI_VALUE /**/
?H:#$d_siginfo_si_fd HAS_SIGINFO_SI_FD /**/
?H:.
:
 see what siginfo fields we have
case "$d_sigaction" in
"$define")
 echo "Checking if your siginfo_t has si_errno field...">&4
 set d_siginfo_si_errno siginfo_t int si_errno $d_sigaction signal.h
 eval $hasfield_t;

 echo "Checking if your siginfo_t has si_pid field...">&4
 set d_siginfo_si_pid siginfo_t $pidtype si_pid $d_sigaction signal.h
 eval $hasfield_t;

 echo "Checking if your siginfo_t has si_uid field...">&4
 set d_siginfo_si_uid siginfo_t $uidtype si_uid $d_sigaction signal.h
 eval $hasfield_t;

 echo "Checking if your siginfo_t has si_addr field...">&4
 set d_siginfo_si_addr siginfo_t "void *" si_addr $d_sigaction signal.h
 eval $hasfield_t;

 echo "Checking if your siginfo_t has si_status field...">&4
 set d_siginfo_si_status siginfo_t int si_status $d_sigaction signal.h
 eval $hasfield_t;

 echo "Checking if your siginfo_t has si_band field...">&4
 set
```

```
 d_siginfo_si_band siginfo_t long si_band $d_sigaction signal.h
 eval $hasfield_t;

 echo "Checking if your siginfo_t has si_value field..."">&4
 set d_siginfo_si_value siginfo_t "union sigval" si_value $d_sigaction signal.h
 eval $hasfield_t;

 echo "Checking if your siginfo_t has si_fd field..."">&4
 set d_siginfo_si_fd siginfo_t int si_fd $d_sigaction signal.h
 eval $hasfield_t;

 ;;
*)
 d_siginfo_si_errno="$undef"
 d_siginfo_si_pid="$undef"
 d_siginfo_si_uid="$undef"
 d_siginfo_si_addr="$undef"
 d_siginfo_si_status="$undef"
 d_siginfo_si_band="$undef"
 d_siginfo_si_value="$undef"
 d_siginfo_si_fd="$undef"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_siginfo_si.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpgrp.U,v 3.0.1.1 1997/02/28 15:34:28 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_getpgrp.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:34:28  ram
?RCS: patch61: new USE_BSD_GETPGRP to detect the getpgrp() flavor
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getpgrp d_bsdgetpgrp: Guess Inlibc Setvar cat rm_try \
 +cc +ccflags +ldflags +libs i_unistd i_stdlib run
```

```
?MAKE: -pick add $@ %<
?S:d_getpgrp:
?S: This variable conditionally defines HAS_GETPGRP if getpgrp() is
?S: available
 to get the current process group.
?S:.
?S:d_bsdgetpgrp:
?S: This variable conditionally defines USE_BSD_GETPGRP if
?S: getpgrp needs one arguments whereas USG one needs none.
?S:.
?C:HAS_GETPGRP (GETPGRP):
?C: This symbol, if defined, indicates that the getpgrp routine is
?C: available to get the current process group.
?C:.
?C:USE_BSD_GETPGRP:
?C: This symbol, if defined, indicates that getpgrp needs one
?C: arguments whereas USG one needs none.
?C:.
?H:#$d_getpgrp HAS_GETPGRP  /**/
?H:#$d_bsdgetpgrp USE_BSD_GETPGRP /**/
?H:.
?T:xxx
?F:!try
?LINT:set d_getpgrp d_bsdgetpgrp
: see if getpgrp exists
set getpgrp d_getpgrp
eval $inlibc

@if USE_BSD_GETPGRP || d_bsdgetpgrp
case "$d_getpgrp" in
"$define")
 echo " "
 echo "Checking to see which flavor of getpgrp is in use..."
 $cat >try.c <<EOP
#include <stdio.h>
#$i_unistd I_UNISTD
#include <sys/types.h>
#ifdef I_UNISTD
#  include <unistd.h>
#endif
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
{
 if (getuid()
```

```
 == 0) {
  printf("(I see you are running Configure as super-user...)\n");
  setuid(1);
 }
#ifdef TRY_BSD_PGRP
 if (getpgrp(1) == 0)
  exit(0);
#else
 if (getpgrp() > 0)
  exit(0);
#endif
 exit(1);
}
EOP
 if $cc -o try -DTRY_BSD_PGRP $ccflags $ldflags try.c $libs >/dev/null 2>&1 && $run ./try; then
  echo "You have to use getpgrp(pid) instead of getpgrp()." >&4
  val="$define"
 elif $cc -o try $ccflags $ldflags try.c $libs >/dev/null 2>&1 && $run ./try; then
  echo "You have to use getpgrp() instead of getpgrp(pid)." >&4
  val="$undef"
 else
  echo "I can't seem to compile and run the test program."
  if ./usg; then
   xxx="a USG one, i.e. you use getpgrp()."
  else
   # SVR4 systems can appear rather BSD-ish.
   case "$i_unistd" in
   $undef)
    xxx="a BSD one, i.e. you use getpgrp(pid)."
    val="$define"
    ;;
   $define)
    xxx="probably a USG one, i.e. you use getpgrp()."
    val="$undef"
    ;;
   esac
  fi
  echo "Assuming your getpgrp is $xxx" >&4
 fi
 ;;
*) val="$undef";;
esac
set
 d_bsdgetpgrp
eval $setvar
$rm_try
@end
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_getpgrp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gconvert.U,v 3.0.1.3 1997/02/28 15:33:38 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_gconvert.U,v $
?RCS: Revision 3.0.1.3 1997/02/28  15:33:38  ram
?RCS: patch61: integrated new unit from perl5
?RCS:
?RCS: Revision 3.0.1.2 1995/07/25  13:55:59  ram
?RCS: patch56: improved comments about the Gconvert macro (ADO)
?RCS: patch56: force compile-link test since it may exist but be unusable (ADO)
?RCS:
?RCS: Revision 3.0.1.1 1994/10/29  16:12:51  ram
?RCS: patch36:
 created by ADO
?RCS:
?MAKE:d_Gconvert: \
 Compile cat Inlibc rm _o rm_try i_stdlib d_qgcvt run \
 uselongdouble d_longdbl d_PRIgldbl sPRIgldbl
?MAKE: -pick add $@ %<
?S:d_Gconvert:
?S: This variable holds what Gconvert is defined as to convert
?S: floating point numbers into strings.  By default, Configure
?S: sets this macro to use the first of gconvert, gcvt, or sprintf
?S: that pass sprintf-%g-like behavior tests.  If perl is using
?S: long doubles, the macro uses the first of the following
?S: functions that pass Configure's tests: qgcvt, sprintf (if
?S: Configure knows how to make sprintf format long doubles--see
?S: sPRIgldbl), gconvert, gcvt, and sprintf (casting to double).
?S: The gconvert_preference and gconvert_ld_preference variables
?S: can be used to alter Configure's preferences, for doubles and
?S: long doubles, respectively.  If present, they contain a
?S: space-separated list of one or more of the above function
?S: names in the order they should be tried.
?S:
```

```
?S: d_Gconvert
 may be set to override Configure with a platform-
?S: specific function.  If this function expects a double, a
?S: different value may need to be set by the uselongdouble.cbu
?S: call-back unit so that long doubles can be formatted without
?S: loss of precision.
?S:.
?C:Gconvert:
?C: This preprocessor macro is defined to convert a floating point
?C: number to a string without a trailing decimal point.  This
?C: emulates the behavior of sprintf("%g"), but is sometimes much more
?C: efficient.  If gconvert() is not available, but gcvt() drops the
?C: trailing decimal point, then gcvt() is used.  If all else fails,
?C: a macro using sprintf("%g") is used. Arguments for the Gconvert
?C: macro are: value, number of digits, whether trailing zeros should
?C: be retained, and the output buffer.
?C: The usual values are:
?C:  d_Gconvert='gconvert((x),(n),(t),(b))'
?C:  d_Gconvert='gcvt((x),(n),(b))'
?C:  d_Gconvert='sprintf((b),"%.*g",(n),(x))'
?C: The last two assume trailing zeros should
 not be kept.
?C:.
?H:#define Gconvert(x,n,t,b) $d_Gconvert
?H:.
?T: xxx_list xxx_convert xxx_ld_list
?F:!try
?LINT:extern gconvert_preference
?LINT:extern gconvert_ld_preference
: Check how to convert floats to strings.

if test "X$d_Gconvert" = X; then

echo " "
echo "Checking for an efficient way to convert floats to strings."
echo " " > try.c
case "$uselongdouble" in
"$define") echo "#define USE_LONG_DOUBLE" >>try.c ;;
esac
case "$d_longdbl" in
"$define") echo "#define HAS_LONG_DOUBLE" >>try.c ;;
esac
case "$d_PRIgldbl" in
"$define") echo "#define HAS_PRIgldbl"    >>try.c ;;
esac
$cat >>try.c <<EOP
#ifdef TRY_gconvert
#define Gconvert(x,n,t,b) gconvert((x),(n),(t),(b))
```

```
const char *myname = "gconvert";
#endif
#ifdef TRY_gcvt
#define Gconvert(x,n,t,b) gcvt((x),(n),(b))
const char *myname = "gcvt";
#endif
#ifdef TRY_qgcvt
#define Gconvert(x,n,t,b) qgcvt((x),(n),(b))
const char *myname = "qgcvt";
#define DOUBLETYPE long double
#endif
#ifdef TRY_sprintf
#if defined(USE_LONG_DOUBLE) &&
 defined(HAS_LONG_DOUBLE)
#ifdef HAS_PRIgldbl
#define Gconvert(x,n,t,b) sprintf((b),"%.*"$sPRIgldbl,(n),(x))
#else
#define Gconvert(x,n,t,b) sprintf((b),"%.*g",(n),(double)(x))
#endif
#else
#define Gconvert(x,n,t,b) sprintf((b),"%.*g",(n),(x))
#endif
const char *myname = "sprintf";
#endif

#ifndef DOUBLETYPE
#if defined(USE_LONG_DOUBLE) && defined(HAS_LONG_DOUBLE)
#define DOUBLETYPE long double
#else
#define DOUBLETYPE double
#endif
#endif

#include <stdio.h>

#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <string.h>

void checkit(const char *expect, char *got)
{
   if (strcmp(expect, got)) {
  printf("%s oddity:  Expected %s, got %s\n",
   myname, expect, got);
  exit(1);
 }
```

```
}

void lencheck(int expect, int got)
{
   if (expect != got) {
  printf("%s length mismatch:  Expected %d, got %d\n",
   myname, expect, got);
  exit(1);
 }
}

int main()
{
 char buf[64];
 buf[63] = '\0';

 /* This must be 1st test on (which?) platform */
 /* Alan Burlison <AlanBurlsin@unn.unisys.com>
 */
 Gconvert((DOUBLETYPE)0.1, 8, 0, buf);
 checkit("0.1", buf);

 Gconvert((DOUBLETYPE)0.01, 8, 0, buf);
 checkit("0.01", buf);

 Gconvert((DOUBLETYPE)0.001, 8, 0, buf);
 checkit("0.001", buf);

 Gconvert((DOUBLETYPE)0.0001, 8, 0, buf);
 checkit("0.0001", buf);

 Gconvert((DOUBLETYPE)0.00009, 8, 0, buf);
 if (strlen(buf) > 5)
    checkit("9e-005", buf); /* for Microsoft ?? */
 else
    checkit("9e-05", buf);

 Gconvert((DOUBLETYPE)1.0, 8, 0, buf);
 checkit("1", buf);

 Gconvert((DOUBLETYPE)1.1, 8, 0, buf);
 checkit("1.1", buf);

 Gconvert((DOUBLETYPE)1.01, 8, 0, buf);
 checkit("1.01", buf);

 Gconvert((DOUBLETYPE)1.001, 8, 0, buf);
 checkit("1.001", buf);
```

```
Gconvert((DOUBLETYPE)1.0001, 8, 0, buf);
checkit("1.0001", buf);

Gconvert((DOUBLETYPE)1.00001, 8, 0, buf);
checkit("1.00001", buf);

Gconvert((DOUBLETYPE)1.000001, 8, 0, buf);
checkit("1.000001", buf);

Gconvert((DOUBLETYPE)0.0, 8, 0, buf);
checkit("0", buf);

Gconvert((DOUBLETYPE)-1.0, 8, 0, buf);
checkit("-1",
buf);

/* Some Linux gcvt's give 1.e+5 here. */
Gconvert((DOUBLETYPE)100000.0, 8, 0, buf);
checkit("100000", buf);

/* Some Linux gcvt's give -1.e+5 here. */
Gconvert((DOUBLETYPE)-100000.0, 8, 0, buf);
checkit("-100000", buf);

Gconvert((DOUBLETYPE)123.456, 8, 0, buf);
checkit("123.456", buf);

/* Testing of 1e+129 in bigintpm.t must not get extra '.' here. */
Gconvert((DOUBLETYPE)1e34, 8, 0, buf);
/* 34 should be enough to scare even long double
 * places into using the e notation. */
if (strlen(buf) > 5)
   checkit("1e+034", buf); /* for Microsoft */
else
   checkit("1e+34", buf);

/* Test for an Ubuntu/Debian bug in gcvt and qgcvt. See:        *
 * https://bugs.launchpad.net/ubuntu/+source/glibc/+bug/1899553 */

Gconvert((DOUBLETYPE)0.4, 53, 0, buf);
lencheck(55, (int)strlen(buf));

/* For Perl, if you add additional tests here, also add them to
 * t/base/num.t for benefit of platforms not using Configure or
 * overriding d_Gconvert */

exit(0);
```

```
}
EOP
?X:
 List of order in which to search for functions.
?X: Usual order of efficiency is gconvert gcvt sprintf
?X: If a hint file sets a d_Gconvert="gconvert" or "gcvt" or "sprintf",
?X: then that is taken as a hint for which function to try first.
?X: (e.g. that function may be in a problematic /usr/ucblib library, and
?X: the user may or may not choose to use -lucb stuff.)
?X: Any other hint file (or previous config.sh) setting is left intact.
: first add preferred functions to our list
xxx_list=""
for xxx_convert in $gconvert_preference; do
   case $xxx_convert in
   gcvt|gconvert|sprintf) xxx_list="$xxx_list $xxx_convert" ;;
   *) echo "Discarding unrecognized gconvert_preference $xxx_convert" >&4 ;;
   esac
done
: then add any others
for xxx_convert in gconvert gcvt sprintf; do
   case "$xxx_list" in
   *$xxx_convert*) ;;
   *) xxx_list="$xxx_list $xxx_convert" ;;
   esac
done

case "$d_longdbl$uselongdouble" in
"$define$define")
   : again, add preferred functions to our
 list first
   xxx_ld_list=""
   for xxx_convert in $gconvert_ld_preference; do
       case $xxx_convert in
       qgcvt|gcvt|gconvert|sprintf) xxx_ld_list="$xxx_ld_list $xxx_convert" ;;
       *) echo "Discarding unrecognized gconvert_ld_preference $xxx_convert" ;;
       esac
   done
   : then add qgcvt, sprintf--then, in xxx_list order, gconvert and gcvt
   for xxx_convert in qgcvt sprintf $xxx_list; do
       case "$xxx_ld_list" in
       $xxx_convert*|*" $xxx_convert"*) ;;
       *) xxx_ld_list="$xxx_ld_list $xxx_convert" ;;
       esac
   done
   : if sprintf cannot do long doubles, move it to the end
   if test "$d_PRIgldbl" != "$define"; then
       xxx_ld_list="`echo $xxx_ld_list|sed s/sprintf//` sprintf"
   fi
```

```
   : if no qgcvt, remove it
   if test "$d_qgcvt" != "$define"; then
       xxx_ld_list="`echo $xxx_ld_list|sed s/qgcvt//`"
   fi
   : use the ld_list
   xxx_list="$xxx_ld_list"
   ;;
esac

for xxx_convert in $xxx_list; do
 echo "Trying $xxx_convert..."
?X:
 Do NOT use $rm_try here, as we need to keep try.c
 $rm -f try try$_o core
 set try -DTRY_$xxx_convert
 if eval $compile; then
  echo "$xxx_convert() found." >&4
  if $run ./try; then
   echo "I'll use $xxx_convert to convert floats into a string." >&4
   break;
  else
   echo "...But $xxx_convert didn't work as I expected."
   xxx_convert=''
  fi
 else
  echo "$xxx_convert NOT found." >&4
  xxx_convert=''
 fi
done

if test X$xxx_convert = X; then
   echo "*** WHOA THERE!!! ***" >&4
   echo "None of ($xxx_list)  seemed to work properly.  I'll use sprintf." >&4
   xxx_convert=sprintf
fi

case "$xxx_convert" in
gconvert) d_Gconvert='gconvert((x),(n),(t),(b))' ;;
gcvt) d_Gconvert='gcvt((x),(n),(b))' ;;
qgcvt) d_Gconvert='qgcvt((x),(n),(b))' ;;
*) case "$uselongdouble$d_longdbl$d_PRIgldbl" in
  "$define$define$define")
     d_Gconvert="sprintf((b),\"%.*\"$sPRIgldbl,(n),(x))" ;;
  "$define$define$undef")
     d_Gconvert='sprintf((b),"%.*g",(n),(double)(x))' ;;
  *) d_Gconvert='sprintf((b),"%.*g",(n),(x))'
 ;;
  esac
```

```
  ;;
esac

fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_gconvert.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_table.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_table.U,v $
?RCS: Revision 3.0.1.2  1993/11/10  17:34:14  ram
?RCS: patch14: wrongly mentionned an obsolete symbol
?RCS:
?RCS: Revision 3.0.1.1  1993/10/16  13:49:29  ram
?RCS: patch12: created
?RCS:
?MAKE:d_table: Inlibc
?MAKE: -pick add $@ %<
?S:d_table:
?S: This variable conditionally defines HAS_TABLE if table() is
?S: available to examine/update elements from a system table.
?S:.
?C:HAS_TABLE:
?C: This symbol, if defined, indicates that the OSF/1
 table() system
?C: call is available to examine/update items from a system table.
?C:.
?H:#$d_table HAS_TABLE /**/
?H:.
?LINT:set d_table
: see if table exists
set table d_table
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/dist/U/d_table.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_libutil.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_libutil: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_libutil:
?S: This variable conditionally defines the I_LIBUTIL symbol, and indicates
?S: whether a C program should include <libutil.h>.
?S:.
?C:I_LIBUTIL:
?C: This symbol, if defined, indicates that <libutil.h> exists and
?C: should be included.
?C:.
?H:#$i_libutil I_LIBUTIL  /**/
?H:.
?LINT:set i_libutil
: see if this is a libutil.h system
set libutil.h i_libutil
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_libutil.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pread.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_pread.U,v $
?RCS:
?MAKE:d_pread: Inlibc
?MAKE: -pick add $@ %<
?S:d_pread:
?S: This variable conditionally defines the HAS_PREAD symbol, which
```

```
?S: indicates to the C program that the pread() routine is available.
?S:.
?C:HAS_PREAD :
?C: This symbol, if defined, indicates that the pread routine is
?C: available to perform reads on a file descriptor at a given offset.
?C:.
?H:#$d_pread HAS_PREAD  /**/
?H:.
?LINT:set d_pread
: see if pread exists
set
 pread d_pread
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_pread.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strchr.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strchr.U,v $
?RCS: Revision 3.0.1.2  1993/10/16  13:49:20  ram
?RCS: patch12: added support for HAS_INDEX
?RCS: patch12: added magic for index() and rindex()
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:05:26  ram
?RCS: patch10: now only defines HAS_STRCHR, no macro remap of index (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:32  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strchr d_index: contains strings Setvar Myread Oldconfig
 Csym
?MAKE: -pick add $@ %<
?S:d_strchr:
?S: This variable conditionally defines HAS_STRCHR if strchr() and
?S: strrchr() are available for string searching.
?S:.
?S:d_index:
```

```
?S: This variable conditionally defines HAS_INDEX if index() and
?S: rindex() are available for string searching.
?S:.
?C:HAS_STRCHR:
?C: This symbol is defined to indicate that the strchr()/strrchr()
?C: functions are available for string searching. If not, try the
?C: index()/rindex() pair.
?C:.
?C:HAS_INDEX:
?C: This symbol is defined to indicate that the index()/rindex()
?C: functions are available for string searching.
?C:.
?H:#$d_strchr HAS_STRCHR /**/
?H:#$d_index HAS_INDEX /**/
?H:.
?M:index: HAS_INDEX
?M:#ifndef HAS_INDEX
?M:#ifndef index
?M:#define index strchr
?M:#endif
?M:#endif
?M:.
?M:rindex: HAS_INDEX
?M:#ifndef HAS_INDEX
?M:#ifndef rindex
?M:#define rindex strrchr
?M:#endif
?M:#endif
?M:.
?T:vali
?LINT:set d_strchr d_index
: index or strchr
echo " "
if set index val -f; eval $csym; $val; then
 if
 set strchr val -f d_strchr; eval $csym; $val; then
  if $contains strchr "$strings" >/dev/null 2>&1 ; then
?X: has index, strchr, and strchr in string header
   val="$define"
   vali="$undef"
   echo "strchr() found." >&4
  else
?X: has index, strchr, and no strchr in string header
   val="$undef"
   vali="$define"
   echo "index() found." >&4
  fi
 else
```

```
?X: has only index, no strchr, string header is a moot point
  val="$undef"
  vali="$define"
  echo "index() found." >&4
 fi
else
 if set strchr val -f d_strchr; eval $csym; $val; then
  val="$define"
  vali="$undef"
  echo "strchr() found." >&4
 else
  echo "No index() or strchr() found!" >&4
  val="$undef"
  vali="$undef"
 fi
fi
set d_strchr; eval $setvar
val="$vali"
set d_index; eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strchr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: byteorder.U,v 3.0.1.2 1997/02/28 15:24:55 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: byteorder.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:24:55  ram
?RCS: patch61: no longer ask the user if the test runs ok
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:02:58  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:28  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:byteorder: cat Myread Oldconfig Loc Compile rm_try run \
 multiarch uvtype uvsize i_stdlib
?MAKE: -pick add $@ %<
```

```
?S:byteorder:
?S: This
 variable holds the byte order in a UV. In the following,
?S: larger digits indicate more significance.  The variable byteorder
?S: is either 4321 on a big-endian machine, or 1234 on a little-endian,
?S: or 87654321 on a Cray ... or 3412 with weird order !
?S:.
?C:BYTEORDER:
?C: This symbol holds the hexadecimal constant defined in byteorder,
?C: in a UV, i.e. 0x1234 or 0x4321 or 0x12345678, etc...
?C: If the compiler supports cross-compiling or multiple-architecture
?C: binaries, use compiler-defined macros to
?C: determine the byte order.
?C:.
?H:?%<:#if defined(MULTIARCH)
?H:?%<:#  ifdef __LITTLE_ENDIAN__
?H:?%<:#    if LONGSIZE == 4
?H:?%<:#      define BYTEORDER 0x1234
?H:?%<:#    else
?H:?%<:#      if LONGSIZE == 8
?H:?%<:#        define BYTEORDER 0x12345678
?H:?%<:#      endif
?H:?%<:#    endif
?H:?%<:#  else
?H:?%<:#    ifdef __BIG_ENDIAN__
?H:?%<:#      if LONGSIZE == 4
?H:?%<:#        define BYTEORDER 0x4321
?H:?%<:#      else
?H:?%<:#        if LONGSIZE
 == 8
?H:?%<:#          define BYTEORDER 0x87654321
?H:?%<:#        endif
?H:?%<:#      endif
?H:?%<:#    endif
?H:?%<:#  endif
?H:?%<:#else
?H:?%<:#define BYTEORDER 0x$byteorder /* large digits for MSB */
?H:?%<:#endif
?H:.
?T:xxx_prompt
?F:!try
: check for ordering of bytes in a UV
echo " "
case "$multiarch" in
*$define*)
 $cat <<EOM
You seem to be doing a multiarchitecture build,
skipping the byteorder check.
```

```
EOM
 byteorder='ffff'
 ;;
*)
 case "$byteorder" in
 ")
  $cat <<'EOM'
In the following, larger digits indicate more significance.  A big-endian
machine like a Pyramid or a Motorola 680?0 chip will come out to 4321. A
little-endian machine like a Vax or an Intel 80?86 chip would be 1234. Other
machines may have weird orders like 3412.  A Cray will report 87654321,
an Alpha will report 12345678. If the test program works the default is
probably right.
I'm now running the test program...
EOM
  $cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include
 <sys/types.h>
typedef $uvtype UV;
int main()
{
 int i;
 union {
  UV l;
  char c[$uvsize];
 } u;

 if ($uvsize > 4)
  u.l = (((UV)0x08070605) << 32) | (UV)0x04030201;
 else
  u.l = (UV)0x04030201;
 for (i = 0; i < $uvsize; i++)
  printf("%c", u.c[i]+'0');
 printf("\n");
 exit(0);
}
EOCP
  xxx_prompt=y
  set try
  if eval $compile && $run ./try > /dev/null; then
   dflt=`$run ./try`
   case "$dflt" in
```

```
   [1-4][1-4][1-4][1-4]|12345678|87654321)
    echo "(The test program ran ok.)"
    echo "byteorder=$dflt"
    xxx_prompt=n
   ;;
   ????|????????) echo "(The test program ran ok.)" ;;
   *) echo "(The test program didn't run right for some reason.)" ;;
   esac
  else
   dflt='4321'
   cat <<'EOM'
(I can't seem to compile the test program.  Guessing big-endian...)
EOM
  fi
  case "$xxx_prompt" in
  y)
   rp="What is the order of bytes in $uvtype?"
   . ./myread
   byteorder="$ans"
   ;;
  *) byteorder=$dflt
   ;;
  esac
  ;;
 esac
 $rm_try
 ;;
esac
```

Found in path(s):
*
 /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/byteorder.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:Devel usedevel: Myread rsrc package
?MAKE: -pick wipe $@ %<
?T:xversion
```

```
?X: waiver of rights
?S:usedevel:
?S: This variable indicates that Perl was configured with development
?S: features enabled.  This should not be done for production builds.
?S:.
?C:PERL_USE_DEVEL:
?C: This symbol, if defined, indicates that Perl was configured with
?C: -Dusedevel, to enable development features.  This should not be
?C: done for production builds.
?C:.
?H:#$usedevel PERL_USE_DEVEL  /**/
?H:.
?LINT:extern versionONLY
?LINT:extern
 installusrbinperl
?LINT:change versionONLY
?LINT:change installusrbinperl
: See if we are using a devel version and want that
xversion=`awk '/define[  ]+PERL_VERSION/ {print $3}' $rsrc/patchlevel.h`
case "$usedevel" in
$define|true|[yY]*)
   usedevel="$define" ;;
*) case "$xversion" in
  *[13579])
 cat >&4 <<EOH
*** WHOA THERE!!! ***

   This is an UNSTABLE DEVELOPMENT release.
   The version of this $package distribution is $xversion, that is, odd,
   (as opposed to even) and that signifies a development release.
   If you want a maintenance release, you want an even-numbered version.

   Do ***NOT*** install this into production use.
   Data corruption and crashes are possible.

   It is most seriously suggested that you do not continue any further
   unless you want to help in developing and debugging Perl.

   If you *still* want to build perl, you can answer 'y' now,
   or pass -Dusedevel to Configure.

EOH
 rp='Do you really want to continue?'
 dflt='n'
 . ./myread
 case
 "$ans" in
 [yY]) echo >&4 "Okay, continuing."
```

```
      usedevel="$define" ;;
 *) echo >&4 "Okay, bye."
    exit 1
    ;;
 esac
 ;;
   esac
   usedevel="$undef"
   ;;
esac
case "$usedevel" in
$define|true|[yY]*)
 case "$versiononly" in
 ") versiononly="$define" ;;
 esac
 case "$installusrbinperl" in
 ") installusrbinperl="$undef" ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/Devel.U
No license file was found, but licenses were detected in source scan.

```
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:uidsign: Myread Typedef uidtype Compile run
?MAKE: -pick add $@ %<
?S:uidsign:
?S: This variable contains the signedness of a uidtype.
?S: 1 for unsigned, -1 for signed.
?S:.
?C:Uid_t_sign:
?C: This symbol holds the signedness of a Uid_t.
?C: 1 for unsigned, -1 for signed.
?C:.
?H:#define Uid_t_sign $uidsign  /* UID sign */
?H:.
?T:yyy zzz
```

```
?F:!try
: Check if UID is signed
echo " "
case "$uidtype" in
*_t) zzz="$uidtype" ;;
*)   zzz="uid"  ;;
esac
echo "Checking the sign of $zzz..." >&4
cat > try.c <<EOCP
#include <sys/types.h>
#include
 <stdio.h>
int main() {
 $uidtype foo = -1;
 if (foo < 0)
  printf("-1\n");
 else
  printf("1\n");
}
EOCP
set try
if eval $compile; then
 yyy=`$run ./try`
 case "$yyy" in
 ") uidsign=1
  echo "(I can't execute the test program--guessing unsigned.)" >&4
  ;;
 *) uidsign=$yyy
  case "$uidsign" in
   1) echo "Your $zzz is unsigned." ;;
  -1) echo "Your $zzz is signed."   ;;
  esac
  ;;
 esac
else
 uidsign=1
 echo "(I can't compile the test program--guessing unsigned.)" >&4
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/uidsign.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_gconvert.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:33:38  ram
?RCS: patch61: integrated new unit from perl5
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  13:55:59  ram
?RCS: patch56: improved comments about the Gconvert macro (ADO)
?RCS: patch56: force compile-link test since it may exist but be unusable (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:12:51  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_Gconvert:
 cat cc ccflags ldflags libs rm_try _o
?MAKE: -pick add $@ %<
?S:d_Gconvert:
?S: This variable holds what Gconvert is defined as to convert
?S: floating point numbers into strings. It could be 'gconvert'
?S: or a more complex macro emulating gconvert with gcvt() or sprintf.
?S:.
?C:Gconvert:
?C: This preprocessor macro is defined to convert a floating point
?C: number to a string without a trailing decimal point.  This
?C: emulates the behavior of sprintf("%g"), but is sometimes much more
?C: efficient.  If gconvert() is not available, but gcvt() drops the
?C: trailing decimal point, then gcvt() is used.  If all else fails,
?C: a macro using sprintf("%g") is used. Arguments for the Gconvert
?C: macro are: value, number of digits, whether trailing zeros should
?C: be retained, and the output buffer.
?C: Possible values are:
?C:  d_Gconvert='gconvert((x),(n),(t),(b))'
?C:  d_Gconvert='gcvt((x),(n),(b))'
?C:  d_Gconvert='sprintf((b),"%.*g",(n),(x))'
?C: The last two assume trailing zeros should
 not be kept.
?C:.
?H:#define Gconvert(x,n,t,b) $d_Gconvert
?H:.
?T: xxx_list xxx_convert
?F:!try
?X:
```

```
: Check how to convert floats to strings.
echo " "
echo "Checking for an efficient way to convert floats to strings."
?X: We want to be sure to drop trailing decimal points (perl5
?X: needs this).
$cat >try.c <<'EOP'
#ifdef TRY_gconvert
#define Gconvert(x,n,t,b) gconvert((x),(n),(t),(b))
char *myname = "gconvert";
#endif
#ifdef TRY_gcvt
#define Gconvert(x,n,t,b) gcvt((x),(n),(b))
char *myname = "gcvt";
#endif
#ifdef TRY_sprintf
#define Gconvert(x,n,t,b) sprintf((b),"%.*g",(n),(x))
char *myname = "sprintf";
#endif

#include <stdio.h>

int
checkit(expect, got)
char *expect;
char *got;
{
   if (strcmp(expect, got)) {
  printf("%s oddity:  Expected %s, got %s\n",
   myname, expect, got);
  exit(1);
 }
}

int
int main()
{
 char buf[64];
 buf[63] = '\0';

 /* This must be 1st test on (which?) platform */
 /* Alan Burlison <AlanBurlsin@unn.unisys.com> */
 Gconvert(0.1, 8, 0, buf);
 checkit("0.1",
 buf);

 Gconvert(1.0, 8, 0, buf);
 checkit("1", buf);
```

```
 Gconvert(0.0, 8, 0, buf);
 checkit("0", buf);

 Gconvert(-1.0, 8, 0, buf);
 checkit("-1", buf);

 /* Some Linux gcvt's give 1.e+5 here. */
 Gconvert(100000.0, 8, 0, buf);
 checkit("100000", buf);

 /* Some Linux gcvt's give -1.e+5 here. */
 Gconvert(-100000.0, 8, 0, buf);
 checkit("-100000", buf);

 exit(0);
}
EOP
?X: List of order in which to search for functions.
?X: Usual order of efficiency is gconvert gcvt sprintf
?X: Respect a previous or hinted value.
case "$d_Gconvert" in
gconvert*) xxx_list='gconvert gcvt sprintf' ;;
gcvt*) xxx_list='gcvt gconvert sprintf' ;;
sprintf*) xxx_list='sprintf gconvert gcvt' ;;
*) xxx_list='gconvert gcvt sprintf' ;;
esac

for xxx_convert in $xxx_list; do
 echo "Trying $xxx_convert"
 $rm_try
 if $cc $ccflags -DTRY_$xxx_convert $ldflags -o try \
  try.c $libs > /dev/null 2>&1 ; then
  echo "$xxx_convert" found. >&4
  if ./try; then
   echo "I'll use $xxx_convert to convert floats
 into a string." >&4
   break;
  else
   echo "...But $xxx_convert didn't work as I expected."
  fi
 else
  echo "$xxx_convert NOT found." >&4
 fi
done

case "$xxx_convert" in
gconvert) d_Gconvert='gconvert((x),(n),(t),(b))' ;;
gcvt) d_Gconvert='gcvt((x),(n),(b))' ;;
```

```
*) d_Gconvert='sprintf((b),"%.*g",(n),(x))' ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_gconvert.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Myread.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Myread.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  15:05:39  ram
?RCS: patch61: myread script now starts with a "startsh"
?RCS: patch61: miscellaneous fixes
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:14:22  ram
?RCS: patch45: added & escape allowing user to turn on -d from the prompt
?RCS:
?RCS: Revision 3.0.1.4  1994/10/31  09:48:04  ram
?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U
?RCS:
?RCS: Revision 3.0.1.3  1994/10/29
  15:56:20  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.2  1993/08/30  08:57:59  ram
?RCS: patch8: added new visible 'nostick' symbol, mainly for Finish.U
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:39:20  ram
?RCS: patch7: now sticks to the question when no default and empty answer
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to do a read.  It allows for shell escapes, default assignment and
?X: parameter evaluation.
?X:
?X: To use this unit, $rp and $dflt must hold the question and the
```

```
?X: default answer. The question will be printed by the script itself.
?X: Neither $rp nor $dflt is altered by the script.
?X:
?X: The myread script will stick to the question if no default is proposed
?X: and the user answer is empty, which prevents mistakes. However, at the
?X: end of Configure, there is an exception
 to this rule (Finish.U) where we
?X: set nostick to a non-empty value to allow the Return key to play its role!
?X:
?MAKE:Myread: Options startsh n c trnl
?MAKE: -pick add $@ %<
?V:ans:dflt rp nostick
?F:./myread
?T:COLUMNS xxxm rp dflt answ aok myecho
?LINT:change fastread
?X: Some shells (Ultrix) do not understand ${COLUMNS:-80}, sigh!
: compute the number of columns on the terminal for proper question formatting
case "$COLUMNS" in
") COLUMNS='80';;
esac

: set up the echo used in my read
?X:
?X: This variable is intended to be eval'ed. It will echo the two
?X: variables $rp and $dflt (provided this latter has a non null value).
?X: It is mainly used by the myread script to echo the questions.
?X:
?X: The $n and $c below are substituted before Loc does its silly echo check
?X: so don't put a $ on the echo below so we get builtin, even if $echo is
?X: pointing to /bin/echo.
?X:
myecho="case \"\$xxxm\" in
") echo $n \"\$rp $c\" >&4;;
*) case \"\$rp\" in
 ") echo $n \"[\$xxxm] $c\";;
 *)
  if
 test \`echo \"\$rp [\$xxxm]  \" | wc -c\` -ge $COLUMNS; then
   echo \"\$rp\" >&4
   echo $n \"[\$xxxm] $c\" >&4
  else
   echo $n \"\$rp [\$xxxm] $c\" >&4
  fi
  ;;
 esac;;
esac"

: now set up to do reads with possible shell escape and default assignment
```

```
cat <<EOSC >myread
$startsh
?X:
?X: Save value of default -- do not alter original in case of eval
?X:
xxxm=\$dflt
$myecho
?X:
?X: If there is no default, then stop, regardless of the value in fastread.
?X: In silent mode, no new-line is to be echoed if the question is empty,
?X: since this is used to wait for the "return" key.
?X:
ans='!'
case "\$fastread" in
yes) case "\$dflt" in
 ") ;;
 *) ans=";
  case "\$silent-\$rp" in
  true-) ;;
  *) echo " " >&4;;
  esac;;
 esac;;
*) case "\$silent" in
 true) case "\$rp" in
  ") ans=";;
  esac;;
 esac;;
esac
while expr "X\$ans" : "X!" >/dev/null; do
 read answ
?X:
?X: Run 'eval' on the answer, in order to do variable substitution, in case
?X: the user types $HOME or $WHATEVER.
 Variables must be evaluated now.
?X: Typing '\$HOME' won't currently prevent from substitution -- use '\\$HOME'
?X: The $1 .. $9 and $*, as well as $@, are available to refer to the
?X: default value.
?X:
 set x \$xxxm
 shift
 aok=''; eval "ans=\\"\$answ\\"" && aok=y
 case  "\$answ" in
?X:
?X: Use "!" and not a plain ! because of a bug in BSD 4.4 shell
?X: (reported by Wayne Davison)
?X: We must handle the shell escapes before dealing with possible variable
?X: substitution, since the shell we're launching in that case will be able
?X: to do it as well as we can -- RAM, 15/03/96
```

```
?X
 "!")
  sh 1>&4
  echo " "
  $myecho
  ;;
 !*)
  set x \`expr "X\$ans" : "X!\(.*\)\$"\`
  shift
  sh 1>&4 -c "\$*"
  echo " "
  $myecho
  ;;
 "\$ans")
  case "\$ans" in
?X:
?X: Answers starting with & are hooks allowing to dynamically turn on/off
?X: some Configure options. That's for the future. -- RAM, 09/01/95
?X: Today, we only recognize '& -d' to mean 'go on as if Configure -d, which
?X: is a hardwired
 behaviour compatible with our general scheme.
?X:
  \\&*)
   set x \`expr "X\$ans" : "X&\(.*\)\$"\`
   shift
   case "\$1" in
   -d)
    fastread=yes
    echo "(OK, I'll run with -d after this question.)" >&4
    ;;
   -*)
    echo "*** Sorry, \$1 not supported yet." >&4
    ;;
   esac
   $myecho
   ans=!
   ;;
  esac;;
 *)
  case "\$aok" in
  y)
   echo "*** Substitution done -- please confirm."
   xxxm="\$ans"
   ans=\`echo $n "\$ans$c" | tr '$trnl' ' '\`
   xxxm="\$ans"
   ans=!
   ;;
  *)
```

```
  echo "*** Error -- try again."
  ans=!
  ;;
 esac
 $myecho
 ;;
esac
?X: Stick in myread if no default answer and nothing was answered
 case "\$ans\$xxxm\$nostick" in
 ")
  ans=!
  $myecho
  ;;
 esac
done
case "\$ans" in
") ans="\$xxxm";;
esac
EOSC
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Myread.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_llrint: Inlibc
?MAKE: -pick add $@ %<
?S:d_llrint:
?S: This variable conditionally defines the HAS_LLRINT symbol, which
?S: indicates to the C program that the llrint() routine is available
?S: to return the long long value closest to a double (according
?S: to the current rounding mode).
?S:.
?C:HAS_LLRINT:
?C: This symbol, if defined, indicates that the llrint routine is
?C: available to return the long long value closest to a double
?C: (according to the current rounding mode).
?C:.
?H:#$d_llrint HAS_LLRINT  /**/
?H:.
?LINT:set d_llrint
: see if llrint exists
set llrint d_llrint
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_llrint.U
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?RCS:
?MAKE:d_sockatmark: Inlibc
?MAKE: -pick add $@ %<
?S:d_sockatmark:
?S: This variable conditionally defines the HAS_SOCKATMARK symbol, which
?S: indicates to the C program that the sockatmark() routine is available.
?S:.
?C:HAS_SOCKATMARK:
?C: This symbol, if defined, indicates that the sockatmark routine is
?C: available to test whether a socket is at the out-of-band mark.
?C:.
?H:#$d_sockatmark HAS_SOCKATMARK  /**/
?H:.
?LINT:set d_sockatmark
: see if sockatmark exists
set sockatmark d_sockatmark
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sockatmark.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: ssizetype.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:24:21  ram
```

```
?RCS: patch61: integrated perl5 concerns for mis-configured sfio
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:30:28  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:33:06  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:ssizetype: Myread Typedef
 sizetype cat rm \
 +cc +optimize +ccflags +ldflags +libs _o
?MAKE: -pick add $@ %<
?S:ssizetype:
?S: This variable defines ssizetype to be something like ssize_t,
?S: long or int.  It is used by functions that return a count
?S: of bytes or an error condition.  It must be a signed type.
?S: We will pick a type such that sizeof(SSize_t) == sizeof(Size_t).
?S:.
?C:SSize_t:
?C: This symbol holds the type used by functions that return
?C: a count of bytes or an error condition.  It must be a signed type.
?C: It is usually ssize_t, but may be long or int, etc.
?C: It may be necessary to include <sys/types.h> or <unistd.h>
?C: to get any typedef'ed information.
?C: We will pick a type such that sizeof(SSize_t) == sizeof(Size_t).
?C:.
?H:#define SSize_t $ssizetype  /* signed count of bytes */
?H:.
?F:!ssize.out !ssize
: see what type is used for signed size_t
set ssize_t ssizetype int stdio.h sys/types.h
eval $typedef
dflt="$ssizetype"
?X: Now check out whether sizeof(SSize_t) == sizeof(Size_t)
$cat
 > ssize.c <<EOM
#include <stdio.h>
#include <sys/types.h>
#define Size_t $sizetype
#define SSize_t $dflt
int main()
{
 if (sizeof(Size_t) == sizeof(SSize_t))
  printf("$dflt\n");
 else if (sizeof(Size_t) == sizeof(int))
  printf("int\n");
 else
```

```
  printf("long\n");
 fflush(stdout);
 exit(0);
}
EOM
echo " "
?X: If $libs contains -lsfio, and sfio is mis-configured, then it
?X: sometimes (apparently) runs and exits with a 0 status, but with no
?X: output!.  Thus we check with test -s whether we actually got any
?X: output.  I think it has to do with sfio's use of _exit vs. exit,
?X: but I don't know for sure.  --Andy Dougherty  1/27/97.
if $cc $optimize $ccflags $ldflags -o ssize ssize.c $libs > /dev/null 2>&1  &&
  ./ssize > ssize.out 2>/dev/null && test -s ssize.out ; then
 ssizetype=`$cat ssize.out`
 echo "I'll be using $ssizetype for functions returning a byte count." >&4
else
 $cat >&4 <<EOM
Help! I can't compile and run the ssize_t test program: please enlighten me!
(This
 is probably a misconfiguration in your system or libraries, and
you really ought to fix it.  Still, I'll try anyway.)

I need a type that is the same size as $sizetype, but is guaranteed to
be signed.  Common values are ssize_t, int and long.

EOM
 rp="What signed type is the same size as $sizetype?"
 . ./myread
 ssizetype="$ans"
fi
$rm -f ssize ssize$_o ssize.*

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-
5.34.0/dist/U/ssizetype.U
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_telldirproto: Hasproto i_systypes i_dirent
```

```
?MAKE: -pick add $@ %<
?S:d_telldirproto:
?S: This variable conditionally defines the HAS_TELLDIR_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the telldir() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_TELLDIR_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the telldir() function.  Otherwise, it is up
?C: to the program to supply one.  A good guess
 is
?C:  extern long telldir(DIR*);
?C:.
?H:#$d_telldirproto HAS_TELLDIR_PROTO /**/
?H:.
?LINT:set d_telldirproto
: see if prototype for telldir is available
echo " "
set d_telldirproto telldir $i_systypes sys/types.h $i_dirent dirent.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_telldirproto.U
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```
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?RCS:
?MAKE:d_strftime: Inlibc
?MAKE: -pick add $@ %<
?S:d_strftime:
?S: This variable conditionally defines the HAS_STRFTIME symbol, which
?S: indicates to the C program that the strftime() routine is available.
?S:.
?C:HAS_STRFTIME:
?C: This symbol, if defined, indicates that the strftime routine is
?C: available to do time formatting.
?C:.
?H:#$d_strftime HAS_STRFTIME  /**/
?H:.
?LINT:set d_strftime
: see if strftime exists
```

```
set strftime d_strftime
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strftime.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_vfork.U,v 3.0.1.6 1994/08/29 16:18:21 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_vfork.U,v $
?RCS: Revision 3.0.1.6  1994/08/29  16:18:21  ram
?RCS: patch32: set default to 'y' the first time
?RCS:
?RCS: Revision 3.0.1.5  1994/06/20  06:59:14  ram
?RCS: patch30: usevfork was not always properly set
?RCS:
?RCS: Revision 3.0.1.4  1994/05/13  15:20:56  ram
?RCS: patch27: modified to avoid spurious Whoa warnings (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/05/06  14:59:09  ram
?RCS: patch23: now explicitly ask whether vfork() should be used
 (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1993/10/16  13:49:39  ram
?RCS: patch12: added magic for vfork()
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:06:57  ram
?RCS: patch10: removed automatic remapping of vfork on fork (WAD)
?RCS: patch10: added compatibility code for older config.sh (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_vfork usevfork d_pseudofork: Inlibc Myread Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_vfork:
?S: This variable conditionally defines the HAS_VFORK symbol, which
?S: indicates the vfork() routine is available.
?S:.
```

```
?S:usevfork:
?S: This variable is set to true when the user accepts to use vfork.
?S: It is set to false when no vfork is available or when the user
?S: explicitly requests not to use vfork.
?S:.
?S:d_pseudofork:
?S: This variable conditionally defines the HAS_PSEUDOFORK symbol,
?S: which indicates that an emulation of the fork routine is available.
?S:.
?C:HAS_VFORK (VFORK):
?C: This
 symbol, if defined, indicates that vfork() exists.
?C:.
?H:#$d_vfork HAS_VFORK /**/
?H:.
?C:HAS_PSEUDOFORK:
?C: This symbol, if defined, indicates that an emulation of the
?C: fork routine is available.
?C:.
?H:#$d_pseudofork HAS_PSEUDOFORK /**/
?H:.
?M:vfork: HAS_VFORK
?M:#ifndef HAS_VFORK
?M:#define vfork fork
?M:#endif
?M:.
?T:d_hvfork
: backward compatibility for d_hvfork
if test X$d_hvfork != X; then
 d_vfork="$d_hvfork"
 d_hvfork="
fi
?X:==========================
: see if there is a vfork
val="
set vfork val
eval $inlibc

d_pseudofork=$undef

: Ok, but do we want to use it. vfork is reportedly unreliable in
: perl on Solaris 2.x, and probably elsewhere.
case "$val" in
$define)
 echo " "
 case "$usevfork" in
 false) dflt='n';;
 *) dflt='y';;
```

```
 esac
 cat <<'EOM'

Perl can only use a vfork() that doesn't suffer from strict
restrictions on calling functions or modifying global data in
the child.  For example, glibc-2.1 contains such a vfork()
that is unsuitable.  If your system
 provides a proper fork()
call, chances are that you do NOT want perl to use vfork().

EOM
 rp="Do you still want to use vfork()?"
 . ./myread
 case "$ans" in
 y|Y) ;;
 *)
  echo "Ok, we won't use vfork()."
  val="$undef"
  ;;
 esac
 ;;
esac
?X:
?X: Only set it when final value is known to avoid spurious Whoa's
?X: Then set usevfork accordingly to the current value, for next run
?X:
set d_vfork
eval $setvar
case "$d_vfork" in
$define) usevfork='true';;
*) usevfork='false';;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_vfork.U
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: sysman.U,v $
?RCS: Revision 3.0.1.2  1994/06/20  07:08:43  ram
?RCS: patch30: now explicitly states that /usr/man/man1 is the default
?RCS: patch30: added /usr/local/man/man1 to the search list
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:13:50  ram
?RCS: patch10: added support for /local/man/man1 (WAD)
?RCS: patch10: added temporary syspath variable to cut down on line length
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:sysman: test
 Loc Oldconfig
?MAKE: -pick add $@ %<
?S:sysman:
?S: This variable holds the place where the manual is located on this
?S: system. It is not the place where the user wants to put his manual
?S: pages. Rather it is the place where Configure may look to find manual
?S: for unix commands (section 1 of the manual usually). See mansrc.
?S:.
?T:syspath
: determine where manual pages are on this system
echo " "
case "$sysman" in
")
 syspath='/usr/share/man/man1 /usr/man/man1'
 syspath="$syspath /usr/man/mann /usr/man/manl /usr/man/local/man1"
 syspath="$syspath /usr/man/u_man/man1 /usr/share/man/man1"
 syspath="$syspath /usr/catman/u_man/man1 /usr/man/l_man/man1"
 syspath="$syspath /usr/local/man/u_man/man1 /usr/local/man/l_man/man1"
 syspath="$syspath /usr/man/man.L /local/man/man1 /usr/local/man/man1"
 sysman=`./loc . /usr/man/man1 $syspath`
 ;;
esac
if $test -d "$sysman"; then
 echo "System manual is in $sysman." >&4
else
 echo "Could not find manual pages in source form." >&4
fi

Found
 in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/sysman.U
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?RCS: $Id: d_socket.U,v 3.0.1.2 1997/02/28 15:46:00 ram Exp $
```

```
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_socket.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:46:00  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:08:04  ram
?RCS: patch16: can now safely declare private nm_extract in dependencies
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_socket d_oldsock d_sockpair socketlib sockethdr \
 d_msg_ctrunc d_msg_dontroute d_msg_oob d_msg_peek
 d_msg_proxy \
 d_scm_rights d_sockaddr_sa_len d_sockaddr_in6 d_sin6_scope_id \
 d_ip_mreq d_ip_mreq_source d_ipv6_mreq d_ipv6_mreq_source \
 d_sockaddr_storage: \
 contains echo n c ar nm nm_opt nm_extract Inlibc Csym _a \
 Compile cat rm_try Setvar Hasfield sysroot
?MAKE: -pick add $@ %<
?S:d_socket:
?S: This variable conditionally defines HAS_SOCKET, which indicates
?S: that the BSD socket interface is supported.
?S:.
?S:d_sockpair:
?S: This variable conditionally defines the HAS_SOCKETPAIR symbol, which
?S: indicates that the BSD socketpair() is supported.
?S:.
?S:d_oldsock:
?S: This variable conditionally defines the OLDSOCKET symbol, which
?S: indicates that the BSD socket interface is based on 4.1c and not 4.2.
?S:.
?S:d_msg_ctrunc:
?S: This variable conditionally defines the HAS_MSG_CTRUNC symbol,
?S: which indicates that the MSG_CTRUNC is available.  #ifdef is
?S: not enough because it may be an enum, glibc has been known to do this.
?S:.
?S:d_msg_dontroute:
?S: This variable
```

```
 conditionally defines the HAS_MSG_DONTROUTE symbol,
?S: which indicates that the MSG_DONTROUTE is available.  #ifdef is
?S: not enough because it may be an enum, glibc has been known to do this.
?S:.
?S:d_msg_oob:
?S: This variable conditionally defines the HAS_MSG_OOB symbol,
?S: which indicates that the MSG_OOB is available.  #ifdef is
?S: not enough because it may be an enum, glibc has been known to do this.
?S:.
?S:d_msg_peek:
?S: This variable conditionally defines the HAS_MSG_PEEK symbol,
?S: which indicates that the MSG_PEEK is available.  #ifdef is
?S: not enough because it may be an enum, glibc has been known to do this.
?S:.
?S:d_msg_proxy:
?S: This variable conditionally defines the HAS_MSG_PROXY symbol,
?S: which indicates that the MSG_PROXY is available.  #ifdef is
?S: not enough because it may be an enum, glibc has been known to do this.
?S:.
?S:d_scm_rights:
?S: This variable conditionally defines the HAS_SCM_RIGHTS symbol,
?S: which indicates that the SCM_RIGHTS is available.
  #ifdef is
?S: not enough because it may be an enum, glibc has been known to do this.
?S:.
?S:d_sockaddr_sa_len:
?S: This variable conditionally defines the HAS_SOCKADDR_SA_LEN symbol,
?S: which indicates that a struct sockaddr structure has the sa_len
?S: member.
?S:.
?S:d_sockaddr_in6:
?S: This variable conditionally defines the HAS_SOCKADDR_IN6 symbol, which
?S: indicates the availability of a struct sockaddr_in6.
?S:.
?S:d_sockaddr_storage:
?S: This variable conditionally defines the HAS_SOCKADDR_STORAGE symbol,
?S: which indicates the availability of a struct sockaddr_storage.
?S:.
?S:d_sin6_scope_id:
?S: This variable conditionally defines the HAS_SIN6_SCOPE_ID symbol, which
?S: indicates that a struct sockaddr_in6 structure has the sin6_scope_id
?S: member.
?S:.
?S:d_ip_mreq:
?S: This variable conditionally defines the HAS_IP_MREQ symbol, which
?S: indicates the availability of a struct ip_mreq.
?S:.
?S:d_ip_mreq_source:
```

```
?S: This variable conditionally defines the HAS_IP_MREQ_SOURCE
 symbol,
?S: which indicates the availability of a struct ip_mreq_source.
?S:.
?S:d_ipv6_mreq:
?S: This variable conditionally defines the HAS_IPV6_MREQ symbol, which
?S: indicates the availability of a struct ipv6_mreq.
?S:.
?S:d_ipv6_mreq_source:
?S: This variable conditionally defines the HAS_IPV6_MREQ_SOURCE symbol,
?S: which indicates the availability of a struct ipv6_mreq_source.
?S:.
?S:socketlib:
?S: This variable has the names of any libraries needed for socket support.
?S:.
?S:sockethdr:
?S: This variable has any cpp '-I' flags needed for socket support.
?S:.
?C:HAS_SOCKET (SOCKET):
?C: This symbol, if defined, indicates that the BSD socket interface is
?C: supported.
?C:.
?C:HAS_SOCKETPAIR (SOCKETPAIR):
?C: This symbol, if defined, indicates that the BSD socketpair() call is
?C: supported.
?C:.
?C:USE_OLDSOCKET (OLDSOCKET):
?C: This symbol, if defined, indicates that the 4.1c BSD socket interface
?C: is supported instead of the 4.2/4.3 BSD socket interface. For instance,
?C: there
 is no setsockopt() call.
?C:.
?C:HAS_MSG_CTRUNC:
?C: This symbol, if defined, indicates that the MSG_CTRUNC is supported.
?C: Checking just with #ifdef might not be enough because this symbol
?C: has been known to be an enum.
?C:.
?C:HAS_MSG_DONTROUTE:
?C: This symbol, if defined, indicates that the MSG_DONTROUTE is supported.
?C: Checking just with #ifdef might not be enough because this symbol
?C: has been known to be an enum.
?C:.
?C:HAS_MSG_OOB:
?C: This symbol, if defined, indicates that the MSG_OOB is supported.
?C: Checking just with #ifdef might not be enough because this symbol
?C: has been known to be an enum.
?C:.
?C:HAS_MSG_PEEK:
```

```
?C: This symbol, if defined, indicates that the MSG_PEEK is supported.
?C: Checking just with #ifdef might not be enough because this symbol
?C: has been known to be an enum.
?C:.
?C:HAS_MSG_PROXY:
?C: This symbol, if defined, indicates that the MSG_PROXY is supported.
?C: Checking just with #ifdef might not be enough because this
 symbol
?C: has been known to be an enum.
?C:.
?C:HAS_SCM_RIGHTS:
?C: This symbol, if defined, indicates that the SCM_RIGHTS is supported.
?C: Checking just with #ifdef might not be enough because this symbol
?C: has been known to be an enum.
?C:.
?C:HAS_SOCKADDR_SA_LEN:
?C: This symbol, if defined, indicates that the struct sockaddr
?C: structure has a member called sa_len, indicating the length of
?C: the structure.
?C:.
?C:HAS_SOCKADDR_IN6:
?C: This symbol, if defined, indicates the availability of
?C: struct sockaddr_in6;
?C:.
?C:HAS_SOCKADDR_STORAGE:
?C: This symbol, if defined, indicates the availability of
?C: struct sockaddr_storage;
?C:.
?C:HAS_SIN6_SCOPE_ID:
?C: This symbol, if defined, indicates that the struct sockaddr_in6
?C: structure has a member called sin6_scope_id.
?C:.
?C:HAS_IP_MREQ:
?C: This symbol, if defined, indicates the availability of
?C: struct ip_mreq;
?C:.
?C:HAS_IP_MREQ_SOURCE:
?C: This symbol, if defined, indicates the availability of
?C: struct ip_mreq_source;
?C:.
?C:HAS_IPV6_MREQ:
?C: This
 symbol, if defined, indicates the availability of
?C: struct ipv6_mreq;
?C:.
?C:HAS_IPV6_MREQ_SOURCE:
?C: This symbol, if defined, indicates the availability of
?C: struct ipv6_mreq_source;
```

```
?C:.
?H:#$d_socket HAS_SOCKET  /**/
?H:#$d_sockpair HAS_SOCKETPAIR /**/
?H:#$d_sockaddr_sa_len HAS_SOCKADDR_SA_LEN /**/
?H:#$d_oldsock USE_OLDSOCKET /**/
?H:#$d_msg_ctrunc HAS_MSG_CTRUNC /**/
?H:#$d_msg_dontroute HAS_MSG_DONTROUTE /**/
?H:#$d_msg_oob HAS_MSG_OOB /**/
?H:#$d_msg_peek HAS_MSG_PEEK /**/
?H:#$d_msg_proxy HAS_MSG_PROXY /**/
?H:#$d_scm_rights HAS_SCM_RIGHTS /**/
?H:#$d_sockaddr_in6 HAS_SOCKADDR_IN6 /**/
?H:#$d_sockaddr_storage HAS_SOCKADDR_STORAGE /**/
?H:#$d_sin6_scope_id HAS_SIN6_SCOPE_ID /**/
?H:#$d_ip_mreq HAS_IP_MREQ /**/
?H:#$d_ip_mreq_source HAS_IP_MREQ_SOURCE /**/
?H:#$d_ipv6_mreq HAS_IPV6_MREQ /**/
?H:#$d_ipv6_mreq_source HAS_IPV6_MREQ_SOURCE /**/
?H:.
?T:val net ENUM enum
?LINT:set d_sockpair d_sockaddr_sa_len
?LINT:set d_msg_ctrunc d_msg_dontroute
 d_msg_oob d_msg_peek d_msg_proxy
?LINT:set d_scm_rights d_sockaddr_in6 d_sin6_scope_id d_ip_mreq
?LINT:set d_ip_mreq_source d_ipv6_mreq d_ipv6_mreq_source d_sockaddr_storage
: see whether socket exists
socketlib=''
sockethdr=''
echo " "
$echo $n "Hmm... $c" >&4
if set socket val -f d_socket; eval $csym; $val; then
   echo "Looks like you have Berkeley networking support." >&4
   d_socket="$define"
?X: now check for advanced features
   if set setsockopt val -f; eval $csym; $val; then
 d_oldsock="$undef"
   else
 echo "...but it uses the old BSD 4.1c interface, rather than 4.2." >&4
 d_oldsock="$define"
   fi
else
?X: HP-UX, for one, puts all the socket stuff in socklib.o. Note that if we
?X: come here on HP-UX, then we must have used nm to get symbols, or we really
?X: don't have sockets anyway...
   if $contains socklib libc.list >/dev/null 2>&1; then
 echo "Looks like you have Berkeley networking support." >&4
 d_socket="$define"
 : we will have to assume that it supports
```

```
 the 4.2 BSD interface
 d_oldsock="$undef"
   else
 echo "You don't have Berkeley networking in libc$_a..." >&4
?X: look for optional networking libraries
 if test "X$d_socket" = "X$define"; then
     echo "...but you seem to believe that you have sockets." >&4
 else
     for net in net socket
     do
  if test -f $sysroot/usr/lib/lib$net$_a; then
?X: space between two  '(' needed for ksh
      ( ($nm $nm_opt $sysroot/usr/lib/lib$net$_a | eval $nm_extract) ||  \
      $ar t $sysroot/usr/lib/lib$net$_a) 2>/dev/null >> libc.list
      if $contains socket libc.list >/dev/null 2>&1; then
   d_socket="$define"
   socketlib="-l$net"
   case "$net" in
   net)
       echo "...but the Wollongong group seems to have hacked it in." >&4
       sockethdr="-I$sysroot/usr/netinclude"
       ;;
   esac
   echo "Found Berkeley sockets interface in lib$net." >&4
?X: now check for advanced features
   if $contains setsockopt libc.list >/dev/null 2>&1; then
       d_oldsock="$undef"
   else
       echo
 "...using the old BSD 4.1c interface, rather than 4.2." >&4
       d_oldsock="$define"
   fi
   break
      fi
  fi
     done
     if test "X$d_socket" != "X$define"; then
        echo "or anywhere else I see." >&4
        d_socket="$undef"
        d_oldsock="$undef"
     fi
 fi
   fi
fi

@if HAS_SOCKETPAIR || d_sockpair
: see if socketpair exists
set socketpair d_sockpair
```

```
eval $inlibc

@end

echo "Checking the availability sa_len in the sock struct ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
int main() {
struct sockaddr sa;
return (sa.sa_len);
}
EOF
val="$undef"
set try; if eval $compile; then
   val="$define"
fi
set d_sockaddr_sa_len; eval $setvar
$rm_try

echo "Checking the availability struct sockaddr_in6 ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct sockaddr_in6 sin6;
return (sin6.sin6_family);
}
EOF
val="$undef"
set try; if eval $compile; then
   val="$define"
fi
set d_sockaddr_in6;
 eval $setvar
$rm_try

echo "Checking the availability struct sockaddr_storage ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct sockaddr_storage sastor;
return (sastor.ss_family);
}
EOF
```

```
val="$undef"
set try; if eval $compile; then
   val="$define"
fi
set d_sockaddr_storage; eval $setvar
$rm_try

echo "Checking the availability sin6_scope_id in struct sockaddr_in6 ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct sockaddr_in6 sin6;
return (sin6.sin6_scope_id);
}
EOF
val="$undef"
set try; if eval $compile; then
   val="$define"
fi
set d_sin6_scope_id; eval $setvar
$rm_try

echo "Checking the availability struct ip_mreq ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct ip_mreq mreq;
return (mreq.imr_multiaddr.s_addr);
}
EOF
val="$undef"
set try; if eval $compile; then

 val="$define"
fi
set d_ip_mreq; eval $setvar
$rm_try

echo "Checking the availability struct ip_mreq_source ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
```

```
struct ip_mreq_source mreq;
return (mreq.imr_multiaddr.s_addr);
}
EOF
val="$undef"
set try; if eval $compile; then
	val="$define"
fi
set d_ip_mreq_source; eval $setvar
$rm_try

echo "Checking the availability struct ipv6_mreq ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct ipv6_mreq mreq;
return (mreq.ipv6mr_interface);
}
EOF
val="$undef"
set try; if eval $compile; then
	val="$define"
fi
set d_ipv6_mreq; eval $setvar
$rm_try

echo "Checking the availability struct ipv6_mreq_source ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct ipv6_mreq_source mreq;
return (mreq.imr_multiaddr.s_addr);
}
EOF
val="$undef"
set try; if eval $compile;
 then
	val="$define"
fi
set d_ipv6_mreq_source; eval $setvar
$rm_try

?X: these constants are known to be troublesomely defined as enums
?X: so that ifdef will not work for detecting their presence.
```

```
echo "Checking the availability of certain socket constants..." >&4
for ENUM in MSG_CTRUNC MSG_DONTROUTE MSG_OOB MSG_PEEK MSG_PROXY SCM_RIGHTS; do
   enum=`$echo $ENUM|./tr '[A-Z]' '[a-z]'`
   $cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
int main() {
   int i = $ENUM;
}
EOF
   val="$undef"
   set try; if eval $compile; then
 val="$define"
   fi
   set d_${enum}; eval $setvar
   $rm_try
done
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_socket.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: mboxchar.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: mboxchar.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:13:12  ram
?RCS: patch56: ensure ctrl-A characters are visible in prompt (WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:11:22  ram
?RCS: patch23: added support for MMDF mailboxes (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:mboxchar: cat package shsharp Myread Oldconfig
?MAKE: -pick add $@ %<
?S:mboxchar:
?S: This variable
```

```
 contains the eventual value of the MBOXCHAR symbol,
?S: which is how a C program can identify a file as a mailbox.
?S:.
?C:MBOXCHAR:
?C: This symbol contains a character which will match the beginning
?C: of a mailbox file.
?C:.
?H:#define MBOXCHAR '$mboxchar'  /**/
?H:.
?T:CTRLA
?INIT:CTRLA=`echo a | tr a '\001'`
: determine how to determine when a file is a mailbox
case "$mboxchar" in
") dflt=F;;
?X: The following ^A is two-chars to ensure it will print out -- WED
"$CTRLA") dflt='^A';;
*)  dflt="$mboxchar";;
esac
$cat <<EOM

In saving articles, $package wants to differentiate between saving to
mailbox format files and normal files.  It does this by examining the
first character of the file in question.  On most systems the first line
starts with "From ...", so the first character is an F.  Other systems
use magic cookies like control codes between articles, so one of those
would be first.  For example, MMDF messages are separated with lines of
four control-A's (you may specify one
 as ^A, i.e. caret A).

EOM
rp="What's the first character of a mailbox file?"
. ./myread
mboxchar="$ans"
case "$mboxchar" in
'F') ;;
"$CTRLA") ;;
'^A'|'^a') mboxchar="$CTRLA";;
*)  cat <<'EOM'

You will need to edit the shell script mbox.saver to properly append an
article to a mailbox.  The arguments to the script are documented in
EOM
 case "$shsharp" in
 false) echo "comments in mbox.saver.std.";;
 true) echo "comments in the shell script itself.";;
 esac
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/mboxchar.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_hypot: Inlibc
?MAKE: -pick add $@ %<
?S:d_hypot:
?S: This variable conditionally defines HAS_HYPOT if hypot is available
?S: for numerically stable hypotenuse function.
?S:.
?C:HAS_HYPOT:
?C: This symbol, if defined, indicates that the hypot routine is
?C: available to do the hypotenuse function.
?C:.
?H:#$d_hypot HAS_HYPOT  /**/
?H:.
?LINT:set d_hypot
: see if hypot exists
set hypot d_hypot
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_hypot.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:ivdformat uvuformat uvoformat uvxformat uvXUformat \
 nvEUformat nvFUformat nvGUformat \
 nveformat nvfformat nvgformat: \
 ivsize longsize intsize shortsize \
 sPRId64 sPRIu64 sPRIo64 sPRIx64 sPRIXU64 \
 uselongdouble d_longdbl usequadmath d_PRIgldbl \
 sPRIEUldbl sPRIFUldbl sPRIGUldbl sPRIeldbl sPRIfldbl sPRIgldbl \
 test echo
?MAKE: -pick add $@ %<
?S:ivdformat:
?S: This variable contains the format string used for printing
```

?S: a Perl IV as a signed decimal integer.
?S:.
?S:uvuformat:
?S: This variable contains the format string used for printing
?S: a Perl UV as an unsigned decimal integer.
?S:.
?S:uvoformat:
?S: This variable contains the format string used for printing
?S: a Perl UV as an unsigned
octal integer.
?S:.
?S:uvxformat:
?S: This variable contains the format string used for printing
?S: a Perl UV as an unsigned hexadecimal integer in lowercase abcdef.
?S:.
?S:uvXUformat:
?S: This variable contains the format string used for printing
?S: a Perl UV as an unsigned hexadecimal integer in uppercase ABCDEF.
?S:.
?S:nveformat:
?S: This variable contains the format string used for printing
?S: a Perl NV using %e-ish floating point format.
?S:.
?S:nvfformat:
?S: This variable contains the format string used for printing
?S: a Perl NV using %f-ish floating point format.
?S:.
?S:nvgformat:
?S: This variable contains the format string used for printing
?S: a Perl NV using %g-ish floating point format.
?S:.
?S:nvEUformat:
?S: This variable contains the format string used for printing
?S: a Perl NV using %E-ish floating point format.
?S:.
?S:nvFUformat:
?S: This variable contains the format string used for printing
?S: a Perl NV using %F-ish floating point format.
?S:.
?S:nvGUformat:
?S: This
variable contains the format string used for printing
?S: a Perl NV using %G-ish floating point format.
?S:.
?C:IVdf:
?C: This symbol defines the format string used for printing a Perl IV
?C: as a signed decimal integer.
?C:.

```
?C:UVuf:
?C: This symbol defines the format string used for printing a Perl UV
?C: as an unsigned decimal integer.
?C:.
?C:UVof:
?C: This symbol defines the format string used for printing a Perl UV
?C: as an unsigned octal integer.
?C:.
?C:UVxf:
?C: This symbol defines the format string used for printing a Perl UV
?C: as an unsigned hexadecimal integer in lowercase abcdef.
?C:.
?C:UVXf:
?C: This symbol defines the format string used for printing a Perl UV
?C: as an unsigned hexadecimal integer in uppercase ABCDEF.
?C:.
?C:NVef:
?C: This symbol defines the format string used for printing a Perl NV
?C: using %e-ish floating point format.
?C:.
?C:NVff:
?C: This symbol defines the format string used for printing a Perl NV
?C: using %f-ish floating point
 format.
?C:.
?C:NVgf:
?C: This symbol defines the format string used for printing a Perl NV
?C: using %g-ish floating point format.
?C:.
?C:NVEf:
?C: This symbol defines the format string used for printing a Perl NV
?C: using %E-ish floating point format.
?C:.
?C:NVFf:
?C: This symbol defines the format string used for printing a Perl NV
?C: using %F-ish floating point format.
?C:.
?C:NVGf:
?C: This symbol defines the format string used for printing a Perl NV
?C: using %G-ish floating point format.
?C:.
?H:#define IVdf  $ivdformat  /**/
?H:#define UVuf  $uvuformat  /**/
?H:#define UVof  $uvoformat  /**/
?H:#define UVxf  $uvxformat  /**/
?H:#define UVXf  $uvXUformat  /**/
?H:#define NVef  $nveformat  /**/
?H:#define NVff  $nvfformat  /**/
```

```
?H:#define NVgf  $nvgformat  /**/
?H:#define NVEf  $nvEUformat  /**/
?H:#define NVFf  $nvFUformat  /**/
?H:#define NVGf  $nvGUformat  /**/
?H:.
: Check format strings for internal types
echo " "
$echo "Checking the format strings to be used for Perl's
 internal types..." >&4

if $test X"$ivsize" = X8; then
 ivdformat="$sPRId64"
 uvuformat="$sPRIu64"
 uvoformat="$sPRIo64"
 uvxformat="$sPRIx64"
 uvXUformat="$sPRIXU64"
else
 if $test X"$ivsize" = X"$longsize"; then
  ivdformat="'ld'"
  uvuformat="'lu'"
  uvoformat="'lo'"
  uvxformat="'lx'"
  uvXUformat="'lX'"
 else
  if $test X"$ivsize" = X"$intsize"; then
   ivdformat="'d'"
   uvuformat="'u'"
   uvoformat="'o'"
   uvxformat="'x'"
   uvXUformat="'X'"
  else
   : far out
   if $test X"$ivsize" = X"$shortsize"; then
    ivdformat="'hd'"
    uvuformat="'hu'"
    uvoformat="'ho'"
    uvxformat="'hx'"
    uvXUformat="'hX'"
   fi
  fi
 fi
fi

if $test X"$usequadmath" = X"$define"; then
   nveformat="'Qe'"
   nvfformat="'Qf'"
   nvgformat="'Qg'"
   nvEUformat="'QE'"
```

```
  nvFUformat='"QF"'
  nvGUformat='"QG"'
else
  if $test X"$uselongdouble" = X"$define" -a X"$d_longdbl" = X"$define" -a X"$d_PRIgldbl" = X"$define"; then
 nveformat="$sPRIeldbl"
 nvfformat="$sPRIfldbl"
 nvgformat="$sPRIgldbl"
 nvEUformat="$sPRIEUldbl"
 nvFUformat="$sPRIFUldbl"
 nvGUformat="$sPRIGUldbl"
   else
 nveformat="'e'"
 nvfformat="'f'"
 nvgformat="'g'"
 nvEUformat="'E'"
 nvFUformat="'F'"
 nvGUformat="'G'"
  fi
fi

case "$ivdformat" in
") echo "$0: Fatal: failed to find format strings, cannot continue." >&4
  exit 1
  ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/perlxvf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Mkdirp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extract.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  14:58:52  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:51:46  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
```

```
?RCS: Revision 3.0  1993/08/18  12:04:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which can launched to create a
?X: directory path like "mkdir -p" would do.
?X:
?MAKE:Mkdirp:
 eunicefix startsh
?MAKE: -pick add $@ %<
?F:./mkdirp
?T:name create file
: script used to emulate mkdir -p
cat >mkdirp <<EOS
$startsh
EOS
cat >>mkdirp <<'EOS'
name=$1;
create="";
while test $name; do
 if test ! -d "$name"; then
  create="$name $create"
  name=`echo $name | sed -e "s|^[^/]*$||"`
  name=`echo $name | sed -e "s|\(.*\)/.*|\1|"`
 else
  name=""
 fi
done
for file in $create; do
 mkdir $file
done
EOS
chmod +x mkdirp
$eunicefix mkdirp
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Mkdirp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_usendir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_usendir.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:47:34  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: likewise for .o replaced by $_o
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_usendir i_ndir ndirlib: test Setvar Findhdr d_readdir _a
?MAKE: -pick add $@ %<
?S:d_usendir:
?S: This variable conditionally defines the EMULATE_NDIR symbol, which
?S: indicates
 to the C program that it should compile the ndir.c code
?S: provided with the package.
?S:.
?S:i_ndir (d_libndir):
?S: This variable conditionally defines the I_NDIR symbol, which
?S: indicates to the C program that it should include the system's
?S: version of ndir.h, rather than the one with this package.
?S:.
?S:ndirlib:
?S: The name of the library to include at linking stage to resolve ndir
?S: symbols. It is up to the makefile to use this value.
?S:.
?C:EMULATE_NDIR (USENDIR):
?C: This symbol, if defined, indicates that the program should compile
?C: the ndir.c code provided with the package.
?C:.
?C:I_NDIR (LIBNDIR):
?C: This symbol, if defined, indicates that the program should include the
?C: system's version of ndir.h, rather than the one with this package.
?C:.
?H:#$d_usendir EMULATE_NDIR  /**/
?H:#$i_ndir I_NDIR  /**/
?H:.
?T:val2
?LINT: set d_usendir i_ndir
: see if there are directory access routines out there
echo " "
if $test `./findhdr ndir.h` && \
 ( $test -r /usr/lib/libndir$_a
 || $test -r /usr/local/lib/libndir$_a ); then
 echo "Ndir library found." >&4
 if $test -r /usr/lib/libndir$_a; then
  ndirlib='-lndir'
```

```
 else
  ndirlib="/usr/local/lib/libndir$_a"
 fi
 val2="$define"
 val="$undef"
else
 ndirlib=''
 val2="$undef"
 case "$d_readdir" in
 "$define")
 echo "No ndir library found, but you have readdir() so we'll use that." >&4
  val="$undef";
  ;;
 *)
  echo "No ndir library found." >&4
  val="$define"
  ;;
 esac
fi
set d_usendir
eval $setvar
val="$val2"
set i_ndir
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_usendir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_termio.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_termio.U,v $
?RCS: Revision 3.0.1.4  1994/10/29  16:20:54  ram
?RCS: patch36: call ./usg and ./Cppsym explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.3  1994/08/29  16:26:38  ram
?RCS: patch32: don't include all threee I_* symbols in config.h
?RCS: patch32: (had forgotten to undo this part last time)
?RCS:
```

```
?RCS: Revision 3.0.1.2  1994/05/13  15:25:03  ram
?RCS: patch27: undone ADO's fix in previous patch since it was useless
?RCS:
?RCS:
 Revision 3.0.1.1  1994/05/06  15:05:23  ram
?RCS: patch23: now include all three defines in config.h (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_termio i_sgtty i_termios: test Inlibc Cppsym Guess Setvar Findhdr Warn run
?MAKE: -pick add $@ %<
?S:i_termio:
?S: This variable conditionally defines the I_TERMIO symbol, which
?S: indicates to the C program that it should include <termio.h> rather
?S: than <sgtty.h>.
?S:.
?S:i_termios:
?S: This variable conditionally defines the I_TERMIOS symbol, which
?S: indicates to the C program that the POSIX <termios.h> file is
?S: to be included.
?S:.
?S:i_sgtty:
?S: This variable conditionally defines the I_SGTTY symbol, which
?S: indicates to the C program that it should include <sgtty.h> rather
?S: than <termio.h>.
?S:.
?C:I_TERMIO:
?C: This symbol, if defined, indicates that the program should include
?C: <termio.h> rather than <sgtty.h>.  There are also differences in
?C: the
 ioctl() calls that depend on the value of this symbol.
?C:.
?C:I_TERMIOS:
?C: This symbol, if defined, indicates that the program should include
?C: the POSIX termios.h rather than sgtty.h or termio.h.
?C: There are also differences in the ioctl() calls that depend on the
?C: value of this symbol.
?C:.
?C:I_SGTTY:
?C: This symbol, if defined, indicates that the program should include
?C: <sgtty.h> rather than <termio.h>.  There are also differences in
?C: the ioctl() calls that depend on the value of this symbol.
?C:.
?H:#$i_termio I_TERMIO  /**/
?H:#$i_termios I_TERMIOS  /**/
?H:#$i_sgtty I_SGTTY  /**/
?H:.
```

```
?T:val2 val3
?LINT:set i_termio i_sgtty i_termios
: see if this is a termio system
val="$undef"
val2="$undef"
val3="$undef"
?X: Prefer POSIX-approved termios.h over all else
if $test `./findhdr termios.h`; then
   set tcsetattr i_termios
   eval $inlibc
   val3="$i_termios"
fi
echo " "
case "$val3" in
   "$define") echo "You have POSIX termios.h... good!" >&4;;
   *)
  if ./Cppsym pyr; then
     case "`$run /bin/universe`" in
  ucb) if $test `./findhdr sgtty.h`; then
   val2="$define"
   echo "<sgtty.h> found." >&4
      else
   echo "System is pyramid with BSD universe."
   ./warn "<sgtty.h> not found--you could have problems."
      fi;;
  *)  if $test `./findhdr termio.h`; then
   val="$define"
   echo "<termio.h> found." >&4
      else
   echo "System is pyramid with USG universe."
   ./warn "<termio.h> not found--you could have problems."
      fi;;
     esac
?X: Start with USG to avoid problems if both usg/bsd was guessed
 elif ./usg; then
     if $test `./findhdr termio.h`; then
  echo "<termio.h> found." >&4
  val="$define"
     elif $test `./findhdr sgtty.h`; then
  echo "<sgtty.h> found." >&4
  val2="$define"
     else
  ./warn "Neither <termio.h> nor <sgtty.h> found--cross fingers!"
     fi
 else
     if $test `./findhdr sgtty.h`; then
  echo "<sgtty.h> found." >&4
  val2="$define"
```

```
    elif $test `./findhdr termio.h`; then
  echo "<termio.h>
 found." >&4
  val="$define"
    else
  ./warn "Neither <sgtty.h> nor <termio.h> found--cross fingers!"
    fi
 fi;;
esac
set i_termio; eval $setvar
val=$val2; set i_sgtty; eval $setvar
val=$val3; set i_termios; eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_termio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fma: Inlibc
?MAKE: -pick add $@ %<
?S:d_fma:
?S: This variable conditionally defines the HAS_FMA symbol, which
?S: indicates to the C program that the fma() routine is available.
?S:.
?C:HAS_FMA:
?C: This symbol, if defined, indicates that the fma routine is
?C: available to do the multiply-add function.
?C:.
?H:#$d_fma HAS_FMA  /**/
?H:.
?LINT:set d_fma
: see if fma exists
set fma d_fma
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fma.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_flexfnam.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_flexfnam: cat rm test Setvar
?MAKE: -pick add $@ %<
?S:d_flexfnam:
?S: This variable conditionally defines the FLEXFILENAMES symbol, which
?S: indicates that the system supports filenames longer than 14 characters.
?S:.
?C:FLEXFILENAMES:
?C: This symbol, if defined, indicates that the system supports filenames
?C: longer than 14 characters.
?C:.
?H:#$d_flexfnam FLEXFILENAMES  /**/
?H:.
?T:first
 second
?LINT:set d_flexfnam
: see if we can have long filenames
echo " "
?X:
?X: We have to test in both /tmp and . because of NFS (remote server may allow
?X: long filenames while the local filesystem cannot support them). If at least
?X: one of those file systems cannot support long filenames, then we assume the
?X: whole system can't.
?X:
rmlist="$rmlist /tmp/cf$$"
$test -d /tmp/cf$$ || mkdir /tmp/cf$$
first=123456789abcdef
second=/tmp/cf$$/$first
$rm -f $first $second
if (echo hi >$first) 2>/dev/null; then
 if $test -f 123456789abcde; then
  echo 'You cannot have filenames longer than 14 characters.  Sigh.' >&4
  val="$undef"
 else
  if (echo hi >$second) 2>/dev/null; then
   if $test -f /tmp/cf$$/123456789abcde; then
    $cat <<'EOM'
That's peculiar... You can have filenames longer than 14 characters, but only
on some of the filesystems.  Maybe you are using NFS.  Anyway, to avoid problems
I shall consider your system cannot support long filenames at all.
```

```
EOM
    val="$undef"
   else
    echo
 'You can have filenames longer than 14 characters.' >&4
    val="$define"
   fi
  else
   $cat <<'EOM'
How confusing! Some of your filesystems are sane enough to allow filenames
longer than 14 characters but some others like /tmp can't even think about them.
So, for now on, I shall assume your kernel does not allow them at all.
EOM
   val="$undef"
  fi
 fi
else
 $cat <<'EOM'
You can't have filenames longer than 14 chars.  You can't even think about them!
EOM
 val="$undef"
fi
set d_flexfnam
eval $setvar
$rm -rf /tmp/cf$$ 123456789abcde*
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_flexfnam.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sitearch.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:21:30  ram
?RCS: patch61: created
?RCS:
?MAKE:sitearch sitearchexp installsitearch: afs cat Getfile \
 Oldconfig Prefixit prefix test archname sitelib
```

```
?MAKE: -pick add $@ %<
?Y:TOP
?S:sitearch:
?S: This variable contains the eventual value of the SITEARCH symbol,
?S: which is the name of the private library for this package.  It may
?S: have a ~ on the front. It is up to the makefile to eventually create
?S: this
 directory while performing installation (with ~ substitution).
?S:.
?S:sitearchexp:
?S: This variable is the ~name expanded version of sitearch, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?S:installsitearch:
?S: This variable is really the same as sitearchexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?C:SITEARCH:
?C: This symbol contains the name of the private library for this package.
?C: The library is private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.  The program
?C: should be prepared to do ~ expansion.
?C: The standard distribution will put nothing in this directory.
?C: Individual sites may place their own extensions and modules in
?C: this directory.
?C:.
?C:SITEARCH_EXP:
?C: This symbol contains the ~name expanded version of SITEARCH, to be used
?C: in programs that are not prepared to deal
 with ~ expansion at run-time.
?C:.
?H:#define SITEARCH "$sitearch"  /**/
?H:#define SITEARCH_EXP "$sitearchexp"  /**/
?H:.
?T:xxx
: determine where site specific architecture-dependent libraries go.
xxx=`echo $sitelib/$archname | sed 's!^$prefix!!'`
: xxx is usually lib/site_perl/archname.
set sitearch sitearch none
eval $prefixit
case "$sitearch" in
") dflt="$sitelib/$archname" ;;
*) dflt="$sitearch" ;;
esac
$cat <<EOM

The installation process will also create a directory for
```

```
architecture-dependent site-specific extensions and modules.

EOM
fn=nd~+
rp='Pathname for the site-specific architecture-dependent library files?'
. ./getfile
if $test "X$sitearchexp" != "X$ansexp"; then
 installsitearch=''
fi
sitearch="$ans"
sitearchexp="$ansexp"
if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
private files reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case
 "$installsitearch" in
 '') dflt=`echo $sitearchexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installsitearch";;
 esac
 fn=de~
 rp='Where will private files be installed?'
 . ./getfile
 installsitearch="$ans"
else
 installsitearch="$sitearchexp"
fi

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/sitearch.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_localtime_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS: Copyright (c) 2006,2007 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_localtime_r d_localtime_r_needs_tzset localtime_r_proto: Inlibc \
 cat run Protochk Hasproto i_systypes usethreads i_time i_systime \
```

```
 rm_try Compile extern_C i_stdlib i_unistd i_malloc
?MAKE: -pick add $@ %<
?S:d_localtime_r:
?S: This variable conditionally defines the HAS_LOCALTIME_R symbol,
?S: which indicates to the C program that the localtime_r()
?S: routine is available.
?S:.
?S:d_localtime_r_needs_tzset:
?S: This variable conditionally defines the LOCALTIME_R_NEEDS_TZSET
?S: symbol, which makes us call tzset before localtime_r()
?S:.
?S:localtime_r_proto:
?S: This
 variable encodes the prototype of localtime_r.
?S: It is zero if d_localtime_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_localtime_r
?S: is defined.
?S:.
?C:HAS_LOCALTIME_R:
?C: This symbol, if defined, indicates that the localtime_r routine
?C: is available to localtime re-entrantly.
?C:.
?C:LOCALTIME_R_NEEDS_TZSET:
?C: Many libc's localtime_r implementations do not call tzset,
?C: making them differ from localtime(), and making timezone
?C: changes using \$ENV{TZ} without explicitly calling tzset
?C: impossible. This symbol makes us call tzset before localtime_r
?C:.
?H:?%<:#$d_localtime_r_needs_tzset LOCALTIME_R_NEEDS_TZSET /**/
?H:?%<:#ifdef LOCALTIME_R_NEEDS_TZSET
?H:?%<:#define L_R_TZSET tzset(),
?H:?%<:#else
?H:?%<:#define L_R_TZSET
?H:?%<:#endif
?H:.
?W:%<:L_R_TZSET
?C:L_R_TZSET:
?C: If localtime_r() needs tzset, it is defined in this define
?C:.
?C:LOCALTIME_R_PROTO:
?C: This symbol encodes the prototype of localtime_r.
?C: It is
 zero if d_localtime_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_localtime_r
?C: is defined.
?C:.
?H:#$d_localtime_r HAS_LOCALTIME_R /**/
?H:#define LOCALTIME_R_PROTO $localtime_r_proto /**/
```

```
?H:.
?T:try hdrs d_localtime_r_proto
?F:!try
: see if localtime_r exists
set localtime_r d_localtime_r
eval $inlibc
case "$d_localtime_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_time time.h $i_systime sys/time.h"
 case "$d_localtime_r_proto:$usethreads" in
 ":define") d_localtime_r_proto=define
  set d_localtime_r_proto localtime_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_localtime_r_proto" in
 define)
 case "$localtime_r_proto" in
 "|0) try='struct tm* localtime_r(const time_t*, struct tm*);'
 ./protochk "$extern_C $try" $hdrs && localtime_r_proto=S_TS ;;
 esac
 case "$localtime_r_proto" in
 "|0) try='int localtime_r(const time_t*, struct tm*);'
 ./protochk "$extern_C $try" $hdrs && localtime_r_proto=I_TS ;;
 esac
 case "$localtime_r_proto"
 in
 "|0) d_localtime_r=undef
  localtime_r_proto=0
  echo "Disabling localtime_r, cannot determine prototype." >&4 ;;
 * ) case "$localtime_r_proto" in
  REENTRANT_PROTO*) ;;
  *) localtime_r_proto="REENTRANT_PROTO_$localtime_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "localtime_r has no prototype, not using it." >&4 ;;
  esac
  d_localtime_r=undef
  localtime_r_proto=0
  ;;
 esac
 ;;
*) localtime_r_proto=0
 ;;
esac
```

```
: see if localtime_r calls tzset
case "$localtime_r_proto" in
REENTRANT_PROTO*)
 $cat >try.c <<EOCP
/*  Does our libc's localtime_r call tzset ?
*  return 0 if so, 1 otherwise.
*/
#$i_systypes I_SYS_TYPES
#$i_unistd I_UNISTD
#$i_time I_TIME
#$i_stdlib I_STDLIB
#$i_malloc I_MALLOC
#ifdef I_SYS_TYPES
#  include <sys/types.h>
#endif
#ifdef I_UNISTD
#  include <unistd.h>
#endif
#ifdef I_TIME
#  include <time.h>
#endif
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <string.h>
#ifdef I_MALLOC
#  include <malloc.h>
#endif
int
 main()
{
   int result = 0;
   time_t t = time(0L);
   char w_tz[]="TZ" "=GMT+5",
  e_tz[]="TZ" "=GMT-5",
 *tz_e = (char*)malloc(16),
 *tz_w = (char*)malloc(16);
   struct tm tm_e, tm_w;
   memset(&tm_e,'\0',sizeof(struct tm));
   memset(&tm_w,'\0',sizeof(struct tm));
   strcpy(tz_e,e_tz);
   strcpy(tz_w,w_tz);

   putenv(tz_e);
   localtime_r(&t, &tm_e);

   putenv(tz_w);
```

```
   localtime_r(&t, &tm_w);

   if( memcmp(&tm_e, &tm_w, sizeof(struct tm)) == 0 )
 result = 1;

   free(tz_e);free(tz_w);
   return result;
}
EOCP
 set try
 if eval $compile; then
     if $run ./try; then
  d_localtime_r_needs_tzset=undef;
     else
  d_localtime_r_needs_tzset=define;
     fi;
 else
     d_localtime_r_needs_tzset=undef;
 fi;
    ;;
 *)
    d_localtime_r_needs_tzset=undef;
    ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_localtime_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_varhdr.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:54:42  ram
?RCS: patch61: varargs script now starts with leading "startsh"
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:21:02  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
```

```
?RCS: Revision 3.0.1.1  1994/05/13  15:26:05  ram
?RCS: patch27: this unit now supersedes old i_stdarg.U and i_varargs.U
?RCS: patch27: modified to avoid spurious Whoa warnings (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:49  ram
?RCS: Baseline for
 dist 3.0 netwide release.
?RCS:
?MAKE:i_stdarg i_varargs i_varhdr: cat +cc +ccflags rm test Setvar \
 Findhdr Warn startsh _o
?MAKE: -pick add $@ %<
?S:i_stdarg:
?S: This variable conditionally defines the I_STDARG symbol, which
?S: indicates to the C program that <stdarg.h> exists and should
?S: be included.
?S:.
?S:i_varargs:
?S: This variable conditionally defines I_VARARGS, which indicates
?S: to the C program that it should include <varargs.h>.
?S:.
?S:i_varhdr:
?S: Contains the name of the header to be included to get va_dcl definition.
?S: Typically one of varargs.h or stdarg.h.
?S:.
?C:I_STDARG:
?C: This symbol, if defined, indicates that <stdarg.h> exists and should
?C: be included.
?C:.
?C:I_VARARGS:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <varargs.h>.
?C:.
?H:#$i_stdarg I_STDARG  /**/
?H:#$i_varargs I_VARARGS /**/
?H:.
?W:%<:va_dcl
?F:!varargs
?T:valstd
?LINT:set i_stdarg i_varargs
?X:
?X: Don't use setvar because the varags test
 below might override these.
?X: Actually, the messages here are just informative. We don't wish to set
?X: i_varargs or i_stdarg to their final value before knowing which of the
?X: two we'll include.
?X:
: see if stdarg is available
echo " "
```

```
if $test `./findhdr stdarg.h`; then
 echo "<stdarg.h> found." >&4
 valstd="$define"
else
 echo "<stdarg.h> NOT found." >&4
 valstd="$undef"
fi

: see if varags is available
echo " "
if $test `./findhdr varargs.h`; then
 echo "<varargs.h> found." >&4
else
 echo "<varargs.h> NOT found, but that's ok (I hope)." >&4
fi

?X:
?X: if you have stdarg.h, you need to support prototypes to actually use it;
?X: but if stdarg.h exists and the compiler doesn't support prototypes (for some
?X: bizarre reason), we'll fall back to varargs.h anyway so it's not so bad.
?X:
: set up the varargs testing programs
$cat > varargs.c <<EOP
#ifdef I_STDARG
#include <stdarg.h>
#endif
#ifdef I_VARARGS
#include <varargs.h>
#endif

#ifdef I_STDARG
int f(char *p, ...)
#else
int
 f(va_alist)
va_dcl
#endif
{
 va_list ap;
#ifndef I_STDARG
 char *p;
#endif
#ifdef I_STDARG
 va_start(ap,p);
#else
 va_start(ap);
 p = va_arg(ap, char *);
#endif
```

```
 va_end(ap);
}
EOP
$cat > varargs <<EOP
$startsh
if $cc -c $ccflags -D\$1 varargs.c >/dev/null 2>&1; then
 echo "true"
else
 echo "false"
fi
$rm -f varargs$_o
EOP
chmod +x varargs

: now check which varargs header should be included
echo " "
i_varhdr=''
case "$valstd" in
"$define")
 if `./varargs I_STDARG`; then
  val='stdarg.h'
 elif `./varargs I_VARARGS`; then
  val='varargs.h'
 fi
 ;;
*)
 if `./varargs I_VARARGS`; then
  val='varargs.h'
 fi
 ;;
esac
case "$val" in
'')
 ./warn "I could not find the definition for va_dcl... You have problems..."
 val="$undef"; set i_stdarg; eval $setvar
 val="$undef"; set i_varargs; eval $setvar
 ;;
*)
 set i_varhdr
 eval $setvar
 case "$i_varhdr" in
 stdarg.h)
  val="$define"; set i_stdarg; eval $setvar
  val="$undef"; set i_varargs; eval $setvar
  ;;
 varargs.h)
  val="$undef"; set i_stdarg;
```

```
 eval $setvar
  val="$define"; set i_varargs; eval $setvar
  ;;
 esac
 echo "We'll include <$i_varhdr> to get va_dcl definition." >&4;;
esac
$rm -f varargs*
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_varhdr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cpp_stuff.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:30:48  ram
?RCS: patch61: added cute quoting trick for wild stringify support
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:08:24  ram
?RCS: patch36: now uses cppstdin instead of plain cpp for consistency (ADO)
?RCS: patch36: remove temporary files when done
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:36  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:cpp_stuff cpp_quote: cat contains cppstdin cppflags cppminus rm Warn \
 package
?MAKE: -pick
 add $@ %<
?S:cpp_stuff:
?S: This variable contains an identification of the catenation mechanism
?S: used by the C preprocessor.
?S:.
?S:cpp_quote:
?S: This variable is set to either "" or '' depending on whether the
?S: pre-processor pre-dates ANSI or not.  It is used in the production of
?S: the SQuoTe() and EQuoTe() macros, and was introduced to overcome a bug
?S: in gcc 3.x whereby the pre-processor complained loudly about the
?S: unterminated strings.
```

```
?S:.
?C:CAT2:
?C: This macro catenates 2 tokens together.
?C:.
?C:CAT3:
?C: This macro catenates 3 tokens together.
?C:.
?C:CAT4:
?C: This macro catenates 4 tokens together.
?C:.
?C:CAT5:
?C: This macro catenates 5 tokens together.
?C:.
?C:STRINGIFY:
?C: This macro surrounds its token with double quotes.
?C:.
?C:SCAT2:
?C: This macro catenates 2 tokens together and stringifies the result.
?C:.
?C:SCAT3:
?C: This macro catenates 3 tokens together and stringifies the result.
?C:.
?C:SCAT4:
?C: This macro catenates 4 tokens
 together and stringifies the result.
?C:.
?C:SCAT5:
?C: This macro catenates 5 tokens together and stringifies the result.
?C:.
?H:?%<:#if $cpp_stuff == 1
?H:?CAT2:#define CAT2(a,b)a/**/b
?H:?CAT3:#define CAT3(a,b,c)a/**/b/**/c
?H:?CAT4:#define CAT4(a,b,c,d)a/**/b/**/c/**/d
?H:?CAT5:#define CAT5(a,b,c,d,e)a/**/b/**/c/**/d/**/e
?H:?STRINGIFY:#define STRINGIFY(a)"a"
?H:?%<:#define SQuoTe(a)${cpp_quote}a
?H:?%<:#define EQuoTe(a)a${cpp_quote}
?H:?SCAT2:#define SCAT2(a,b)EQuoTe(SQuoTe(a)b)
?H:?SCAT3:#define SCAT3(a,b,c)EQuoTe(SQuoTe(a)b/**/c)
?H:?SCAT4:#define SCAT4(a,b,c,d)EQuoTe(SQuoTe(a)b/**/c/**/d)
?H:?SCAT5:#define SCAT5(a,b,c,d,e)EQuoTe(SQuoTe(a)b/**/c/**/d/**/e)
?H:?%<:#endif
?H:?%<:#if $cpp_stuff == 42
?X: The additional level of indirection enables these macros to be
?X: used as arguments to other macros.  See K&R 2nd ed., page 231.
?H:?%<:#define CaTiFy(a,b) a ## b
?H:?%<:#define CAT2(a,b) CaTiFy(a,b)
?H:?CAT3:#define CAT3(a,b,c) CAT2(CaTiFy(a,b),c)
```

```
?H:?CAT4:#define CAT4(a,b,c,d)
 CAT2(CaTiFy(a,b), CaTiFy(c,d))
?H:?CAT5:#define CAT5(a,b,c,d,e) CAT2(CAT2(CaTiFy(a,b), CaTiFy(c,d)), e)
?H:?%<:#define StGiFy(a)# a
?H:?STRINGIFY:#define STRINGIFY(a)StGiFy(a)
?H:?SCAT2:#define SCAT2(a,b)StGiFy(a) StGiFy(b)
?H:?SCAT3:#define SCAT3(a,b,c)StGiFy(a) StGiFy(b) StGiFy(c)
?H:?SCAT4:#define SCAT4(a,b,c,d)StGiFy(a) StGiFy(b) StGiFy(c) StGiFy(d)
?H:?SCAT5:#define SCAT5(a,b,c,d,e)StGiFy(a) StGiFy(b) StGiFy(c) StGiFy(d) StGiFy(e)
?H:?%<:#endif
?H:?%<:#if $cpp_stuff != 1 && $cpp_stuff != 42
?H:?%<:#include "Bletch: How does this C preprocessor catenate tokens?"
?H:?%<:#endif
?H:.
?W:%<:CAT2 CAT3 CAT4 CAT5 STRINGIFY SCAT2 SCAT3 SCAT4 SCAT5
?F:!cpp_stuff.c
?LINT:known StGiFy EQuoTe SQuoTe CaTiFy
: how do we catenate cpp tokens here?
echo " "
echo "Checking to see how your cpp does stuff like catenate tokens..." >&4
cpp_quote=''
$cat >cpp_stuff.c <<'EOCP'
#define RCAT(a,b)a/**/b
#define ACAT(a,b)a ## b
RCAT(Rei,ser)
ACAT(Cir,cus)
EOCP
$cppstdin $cppflags $cppminus <cpp_stuff.c >cpp_stuff.out
 2>&1
if $contains 'Circus' cpp_stuff.out >/dev/null 2>&1; then
 echo "Oh!  Smells like ANSI's been here."
 echo "We can catify or stringify, separately or together!"
 cpp_stuff=42
elif $contains 'Reiser' cpp_stuff.out >/dev/null 2>&1; then
 echo "Ah, yes!  The good old days!"
 cpp_stuff=1
 $cat >cpp_stuff.c <<'EOCP'
#define SQuoTe(a)"a
#define EQuoTe(a)a"
#define CAT2(a,b)EQuoTe(SQuoTe(a)b)
CAT2(Vic,tory)
EOCP
 $cppstdin $cppflags $cppminus <cpp_stuff.c >cpp_stuff.out 2>&1
 if $contains '"Victory"' cpp_stuff.out >/dev/null 2>&1; then
  echo "I'll resort to a cute trick to also be able to stringify."
  cpp_quote=""
 else
  $cat <<EOM
```

```
However, in the good old days we don't know how to stringify and
catify at the same time...
@if SCAT2 || SCAT3 || SCAT4 || SCAT5
You might have to edit the values of the SCAT[2-5] macros in config.h...
@else
Hopefully, $package does not need this feature.
@end
EOM
 fi
else
 ./warn <<EOM
I can't seem to be able to catenate tokens with your cpp.
@if
 CAT2 || CAT3 || CAT4 || CAT5 || SCAT2 || SCAT3 || SCAT4 || SCAT5
You're going to have to edit the values of the following
macros in config.h:

@if CAT2 || CAT3 || CAT4 || CAT5
 CAT[2-5]
@end
@if SCAT2 || SCAT3 || SCAT4 || SCAT5
 SCAT[2-5]
@end

in order to let me compile.
@end
EOM
 cpp_stuff="/* Help! How do we handle cpp_stuff? */*/"
fi
$rm -f cpp_stuff.*
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/cpp_stuff.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sysconf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
```

```
?RCS: $Log: d_sysconf.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:15:57  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_sysconf: Inlibc
?MAKE: -pick add $@ %<
?S:d_sysconf:
?S: This variable conditionally defines the HAS_SYSCONF symbol, which
?S: indicates to the C program that the sysconf() routine is available
?S: to determine system related limits and options.
?S:.
?C:HAS_SYSCONF:
?C: This
 symbol, if defined, indicates that sysconf() is available
?C: to determine system related limits and options.
?C:.
?H:#$d_sysconf HAS_SYSCONF /**/
?H:.
?LINT:set d_sysconf
: see if sysconf exists
set sysconf d_sysconf
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sysconf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_system.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_system.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_system: Inlibc
?MAKE: -pick add $@ %<
?S:d_system:
?S: This variable conditionally defines HAS_SYSTEM if system() is
?S: available to issue a shell command.
?S:.
```

```
?C:HAS_SYSTEM (SYSTEM):
?C: This symbol, if defined, indicates that the system routine is
?C: available to issue a shell command.
?C:.
?H:#$d_system HAS_SYSTEM /**/
?H:.
?LINT:set
 d_system
: see if system exists
set system d_system
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_system.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cf_who.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:28:50  ram
?RCS: patch61: new computation method avoiding use of temporary file
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:42:34  ram
?RCS: patch23: login name now computed the hard way
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:32  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Oldconfig dependency is there to ensure computation occurs after old values
?X: from config.sh have been loaded, so that we can supersede them.
?X:
?MAKE:cf_time
 cf_by: date Oldconfig
?MAKE: -pick add $@ %<
?S:cf_time:
?S: Holds the output of the "date" command when the configuration file was
?S: produced. This is used to tag both config.sh and config_h.SH.
?S:.
```

```
?S:cf_by:
?S: Login name of the person who ran the Configure script and answered the
?S: questions. This is used to tag both config.sh and config_h.SH.
?S:.
?LINT:change LC_ALL LANGUAGE
: who configured the system
?X: Ensure English date -- Jarkko Hietaniemi
cf_time=`LC_ALL=C; LANGUAGE=C; export LC_ALL; export LANGUAGE; $date 2>&1`
?X:
?X: Leave a white space between first two '(' for ksh. The sub-shell is needed
?X: on some machines to avoid the error message when logname is not found; e.g.
?X: on SUN-OS 3.2, (logname || whoami) would not execute whoami if logname was
?X: not found. Sigh!
?X:
?X: Convex had a broken logname executable which returned a non-zero status,
?X: and that broke the previous:
?X:   cf_by=`( (logname) 2>/dev/null || whoami) 2>&1`
?X: Switch to emergency
 mode... -- RAM, 19/04/94
?X:
?X: Parentheses needed to avoid error message if the program does not exist.
?X: Uses case instead of $test so it can be put before $test is defined.
?X: Don't redirect to a file because on Ultrix (under script?) logname
?X: outputs a blank line first.  This method will apparently work.
case "$cf_by" in
"")
 cf_by=`(logname) 2>/dev/null`
 case "$cf_by" in
 "")
  cf_by=`(whoami) 2>/dev/null`
  case "$cf_by" in
  "") cf_by=unknown ;;
  esac ;;
 esac ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/cf_who.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: dlsrc.U,v$
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
```

```
?RCS: $Log: dlsrc.U,v $
?RCS:
?X:  hpux support thanks to Jeff Okamoto <okamoto@hpcc101.corp.hp.com>
?X:
?X:  To create a shared library, you must compile ALL source files in the
?X:  library with +z (or possibly +Z if the library is whopping huge),
?X:  then link the library with -b.  Example:
?X:   cc -c +z module_a.c
?X:   cc -c +z module_b.c
?X:   ld -b module_a.o module_b.o -o module.sl
?X:
?MAKE:usedl ld dlsrc cccdlflags lddlflags ccdlflags bin_ELF ld_can_script: \
 rm_try Getfile Myread test osname sed d_dlopen Findhdr Setvar \
 src run cc ccflags ldflags optimize ls gccversion cat rsrc i_stdlib \
 i_unistd osvers sysroot
?MAKE: -pick add $@ %<
?Y:BOTTOM
?S:usedl:
?S: This variable
 indicates if the system supports dynamic
?S: loading of some sort.  See also dlsrc and dlobj.
?S:.
?S:ld:
?S: This variable indicates the program to be used to link
?S: libraries for dynamic loading.  On some systems, it is 'ld'.
?S: On ELF systems, it should be $cc.  Mostly, we'll try to respect
?S: the hint file setting.
?S:.
?S:dlsrc:
?S: This variable contains the name of the dynamic loading file that
?S: will be used with the package.
?S:.
?S:cccdlflags:
?S: This variable contains any special flags that might need to be
?S: passed with 'cc -c' to compile modules to be used to create a shared
?S: library that will be used for dynamic loading.  For hpux, this
?S: should be +z.  It is up to the makefile to use it.
?S:.
?S:lddlflags:
?S: This variable contains any special flags that might need to be
?S: passed to $ld to create a shared library suitable for dynamic
?S: loading.  It is up to the makefile to use it.  For hpux, it
?S: should be '-b'.  For sunos 4.1, it is empty.
?S:.
?S:ccdlflags:
?S: This
 variable contains any special flags that might need to be
?S: passed to cc to link with a shared library for dynamic loading.
```

```
?S: It is up to the makefile to use it.  For sunos 4.1, it should
?S: be empty.
?S:.
?S:bin_ELF:
?S: This variable saves the result from configure if generated binaries
?S: are in ELF format. Only set to defined when the test has actually
?S: been performed, and the result was positive.
?S:.
?S:ld_can_script:
?S: This variable shows if the loader accepts scripts in the form of
?S: -Wl,--version-script=ld.script. This is currently only supported
?S: for GNU ld on ELF in dynamic loading builds.
?S:.
?C:USE_DYNAMIC_LOADING ~ %<:
?C: This symbol, if defined, indicates that dynamic loading of
?C: some sort is available.
?C:.
?H:?%<:#$usedl USE_DYNAMIC_LOADING  /**/
?H:.
?W:%<:dlopen
?T:dldir thisflag tdir
?F:!a.out
: determine which dynamic loading, if any, to compile in
echo " "
dldir="ext/DynaLoader"
case "$usedl" in
   $define|y|true)
 dflt='y'
 usedl="$define"
 ;;
    $undef|n|false)
 dflt='n'
 usedl="$undef"
 ;;
   *)
 dflt='n'
 case "$d_dlopen" in
     $define) dflt='y' ;;
 esac
 : Does a dl_xxx.xs file exist for this operating system
 $test -f $rsrc/$dldir/dl_${osname}.xs && dflt='y'
 ;;
esac
rp="Do you wish to use dynamic loading?"
. ./myread
usedl="$ans"
bin_ELF="$undef"
case "$ans" in
```

```
  y*) usedl="$define"
 case "$dlsrc" in
    ") if $test -f $rsrc/$dldir/dl_${osname}.xs ; then
     dflt="$dldir/dl_${osname}.xs"
 elif $test "$d_dlopen" = "$define" ; then
     dflt="$dldir/dl_dlopen.xs"
 else
     dflt="
 fi
 ;;
    *)  dflt="$dldir/$dlsrc"
 ;;
 esac
 echo "The following dynamic loading files are available:"
 : Can not go over to $dldir because getfile has path hard-coded in.
 tdir=`pwd`; cd "$rsrc"; $ls -C $dldir/dl*.xs; cd "$tdir"
 rp="Source file to use for dynamic loading"
 fn="fne"
 gfpth="$src"
 . ./getfile
 usedl="$define"
 : emulate basename
 dlsrc=`echo $ans | $sed -e 's%.*/\([^/]*\)$%\1%'`

 $cat
 << EOM

Some systems may require passing special flags to $cc -c to
compile modules that will be used to create a shared library.
To use no flags, say "none".

EOM
 case "$cccdlflags" in
    ") case "$gccversion" in
  ") case "$osname" in
  hpux) dflt='+z' ;;
  irix*) dflt='-KPIC' ;;
  svr4*|esix*|solaris|nonstopux) dflt='-KPIC' ;;
  sunos) dflt='-pic' ;;
  *) dflt='none' ;;
     esac
     ;;
 *)  case "$osname" in
  darwin) dflt='none' ;;
  *linux*|svr4*|esix*|solaris|nonstopux) dflt='-fPIC' ;;
  *) dflt='-fpic' ;;
     esac ;;
  esac ;;
```

```
    ' ') dflt='none' ;;
    *)   dflt="$cccdlflags" ;;
esac

case "$dflt" in
    none) dflt=" ;;
esac

# If -Dsysroot was specified, now's the time to add it
# to cccdlflags
if test "X$sysroot" != X; then
    case "$gccversion" in
 ") ;;
 *)  case "$dflt" in
  *sysroot*) ;;
  'undef'|*)
      dflt="$dflt --sysroot=$sysroot" ;;
     esac
     ;;
    esac
fi

case "$dflt" in
    ") dflt='none';;
esac

rp="Any
special flags to pass to $cc -c to compile shared library modules?"
. ./myread
case "$ans" in
?X: Use ' ' so that a subsequent Configure run preserves the old state.
    none) cccdlflags=' ' ;;
    *)    cccdlflags="$ans" ;;
esac

cat << EOM

Some systems use ld to create libraries that can be dynamically loaded,
while other systems (such as those using ELF) use $cc.

EOM

: Determine if this is ELF
 $cat >try.c <<EOM
/* Test for whether ELF binaries are produced */
#include <fcntl.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
```

```
#include <stdlib.h>
#endif
#$i_unistd I_UNISTD
#ifdef I_UNISTD
#include <unistd.h>
#endif
int main() {
   char b[4];
   int i = open("a.out",O_RDONLY);
   if(i == -1)
 exit(1); /* fail */
   if(read(i,b,4)==4 && b[0]==127 && b[1]=='E' && b[2]=='L' && b[3]=='F')
 exit(0); /* succeed (yes, it is ELF) */
   exit(1); /* fail */
}
EOM
 if $cc $ccflags $ldflags -o a.out try.c >/dev/null 2>&1 && $run ./a.out; then
     bin_ELF="$define"
 fi
 $rm_try

 case "$ld" in

    ") if $test $bin_ELF = "$define"; then
      cat <<EOM
You appear to have ELF support.  I'll use $cc to build dynamic libraries.
EOM
      dflt="$cc"
  else
      echo "I'll use ld to build dynamic libraries."
      dflt='ld'
  fi
  ;;
    *)  dflt="$ld"
  ;;
 esac

 rp="What command should be used to create dynamic libraries?"
 . ./myread
 ld="$ans"

 cat << EOM

Some systems may require passing special flags to $ld to create a
library that can be dynamically loaded.  If your ld flags include
-L/other/path options to locate libraries outside your loader's normal
search path, you may need to specify those -L options here as well.  To
use no flags, say "none".
```

```
EOM
 case "$lddlflags" in
    ") case "$osname" in
     haiku) dflt='-shared' ;;
     hpux) dflt='-b';
    case "$gccversion" in
        ") dflt="$dflt +vnocompatwarnings" ;;
    esac
    ;;
     *linux*|irix*|gnu*)  dflt="-shared $optimize" ;;
     solaris) # See [perl #66604].
      # On Solaris 11, gcc -m64
 on amd64
      # appears not to understand -G.  gcc versions at
      # least as old as 3.4.3 support -shared, so just
      # use that with Solaris 11 and later, but keep
      # the old behavior for older Solaris versions.
      case "$gccversion" in
   ") dflt='-G' ;;
   *)  case "$osvers" in
    2.?|2.10) dflt='-G' ;;
    *) dflt='-shared' ;;
       esac
       ;;
      esac
      ;;
     sunos) dflt='-assert nodefinitions' ;;
     svr4*|esix*|nonstopux) dflt="-G $ldflags" ;;
     *)     dflt='none' ;;
 esac
 ;;
    *) dflt="$lddlflags" ;;
 esac

 : Only do this for gcc, since, for example, qcc has no concept
 : of --sysroot.
 if $test "X$sysroot" != X; then
    case "$gccversion" in
  ") ;;
  *)  dflt="$dflt --sysroot=$sysroot" ;;
    esac
 fi

 : Try to guess additional flags to pick up local libraries.
 : Be careful not to append to a plain 'none'
 case "$dflt" in
    none) dflt=" ;;
```

```
esac
for thisflag in $ldflags; do
    case "$thisflag" in
 -L*|-R*|-Wl,-R*)

   case " $dflt " in
  *" $thisflag "*) ;;
  *) dflt="$dflt $thisflag" ;;
     esac
     ;;
    esac
done

case "$dflt" in
    "|' ') dflt='none' ;;
esac

case "$ldflags" in
    *-fstack-protector-strong*)
 case "$dflt" in
     *-fstack-protector-strong*) ;; # Don't add it again
     *) dflt="$dflt -fstack-protector-strong" ;;
 esac
 ;;
    *-fstack-protector*)
 case "$dflt" in
     *-fstack-protector*) ;; # Don't add it again
     *) dflt="$dflt -fstack-protector" ;;
 esac
 ;;
esac

rp="Any special flags to pass to $ld to create a dynamically loaded library?"
. ./myread
case "$ans" in
?X: Use ' ' so that a subsequent Configure run preserves the old state.
    none) lddlflags=' ' ;;
    *) lddlflags="$ans" ;;
esac

cat <<EOM

Some systems may require passing special flags to $cc to indicate that
the resulting executable will use dynamic linking.  To use no flags,
say "none".

EOM
 case "$ccdlflags" in
```

```
    ') case "$osname" in
     *linux*|hpux|gnu*)
 dflt='-Wl,-E' ;;
     sunos)            dflt='none'   ;;
     *)                dflt='none'   ;;
  esac ;;
    ' ') dflt='none' ;;
    *)   dflt="$ccdlflags" ;;
 esac
 rp="Any special flags to pass to $cc to use dynamic linking?"
 . ./myread
 case "$ans" in
?X: Use ' ' so that a subsequent Configure run preserves the old state.
    none) ccdlflags=' ' ;;
    *)    ccdlflags="$ans" ;;
 esac
 ;;
?X: End of usedl=y section

   *)  usedl="$undef"
 ld='ld'
 dlsrc='dl_none.xs'
 lddlflags=''
 ccdlflags=''
 ;;
esac

ld_can_script="$undef"
case "$bin_ELF$usedl" in
   $define$define)
 # Abuse try.h and a.out names for neat cleanup
 $cat >try.c <<EOM
void foo() {}
void bar() {}
EOM
 $cat >try.h <<EOM
LIBTEST_42 {
global:
 foo;
local: *;
};
EOM
 if $cc $cccdlflags $ccdlflags $ccflags \
        $ldflags $lddlflags -o a.out try.c \
        -Wl,--version-script=try.h >/dev/null 2>&1 \
    &&  $test -s a.out ; then
     echo "ld supports scripting" >&4
     ld_can_script="$define"
```

```
 else

    echo "ld does not support scripting" >&4
 fi
 $rm_try
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/dlsrc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_PRId64 d_PRIi64 d_PRIu64 d_PRIo64 d_PRIx64 d_PRIXU64 \
 sPRId64 sPRIi64 sPRIu64 sPRIo64 sPRIx64 sPRIXU64: \
 quadtype i_inttypes test cat rm_try Setvar Compile run
?MAKE: -pick add $@ %<
?S:d_PRId64:
?S: This variable conditionally defines the PERL_PRId64 symbol, which
?S: indicates that stdio has a symbol to print 64-bit decimal numbers.
?S:.
?S:d_PRIi64:
?S: This variable conditionally defines the PERL_PRIi64 symbol, which
?S: indicates that stdio has a symbol to print 64-bit decimal numbers.
?S:.
?S:d_PRIu64:
?S: This variable conditionally defines the PERL_PRIu64 symbol, which
?S: indicates that stdio has a symbol to print 64-bit unsigned decimal
?S: numbers.
?S:.
?S:d_PRIo64:
?S: This variable
 conditionally defines the PERL_PRIo64 symbol, which
?S: indicates that stdio has a symbol to print 64-bit octal numbers.
?S:.
?S:d_PRIx64:
?S: This variable conditionally defines the PERL_PRIx64 symbol, which
?S: indicates that stdio has a symbol to print 64-bit hexadecimal numbers.
?S:.
?S:d_PRIXU64:
?S: This variable conditionally defines the PERL_PRIXU64 symbol, which
```

?S: indicates that stdio has a symbol to print 64-bit hExADECimAl numbers.
?S: The 'U' in the name is to separate this from d_PRIx64 so that even
?S: case-blind systems can see the difference.
?S:.
?S:sPRId64:
?S: This variable, if defined, contains the string used by stdio to
?S: format 64-bit decimal numbers (format 'd') for output.
?S:.
?S:sPRIi64:
?S: This variable, if defined, contains the string used by stdio to
?S: format 64-bit decimal numbers (format 'i') for output.
?S:.
?S:sPRIu64:
?S: This variable, if defined, contains the string used by stdio to
?S: format 64-bit unsigned decimal numbers (format 'u')
 for output.
?S:.
?S:sPRIo64:
?S: This variable, if defined, contains the string used by stdio to
?S: format 64-bit octal numbers (format 'o') for output.
?S:.
?S:sPRIx64:
?S: This variable, if defined, contains the string used by stdio to
?S: format 64-bit hexadecimal numbers (format 'x') for output.
?S:.
?S:sPRIXU64:
?S: This variable, if defined, contains the string used by stdio to
?S: format 64-bit hExADECimAl numbers (format 'X') for output.
?S: The 'U' in the name is to separate this from sPRIx64 so that even
?S: case-blind systems can see the difference.
?S:.
?C:PERL_PRId64:
?C: This symbol, if defined, contains the string used by stdio to
?C: format 64-bit decimal numbers (format 'd') for output.
?C:.
?C:PERL_PRIi64:
?C: This symbol, if defined, contains the string used by stdio to
?C: format 64-bit decimal numbers (format 'i') for output.
?C:.
?C:PERL_PRIu64:
?C: This symbol, if defined, contains the string used by stdio to
?C: format 64-bit unsigned decimal numbers (format 'u')
 for output.
?C:.
?C:PERL_PRIo64:
?C: This symbol, if defined, contains the string used by stdio to
?C: format 64-bit octal numbers (format 'o') for output.
?C:.

```
?C:PERL_PRIx64:
?C: This symbol, if defined, contains the string used by stdio to
?C: format 64-bit hexadecimal numbers (format 'x') for output.
?C:.
?C:PERL_PRIXU64:
?C: This symbol, if defined, contains the string used by stdio to
?C: format 64-bit hExADECimAl numbers (format 'X') for output.
?C:.
?H:#$d_PRId64 PERL_PRId64 $sPRId64 /**/
?H:#$d_PRIi64 PERL_PRIi64 $sPRIi64 /**/
?H:#$d_PRIu64 PERL_PRIu64 $sPRIu64 /**/
?H:#$d_PRIo64 PERL_PRIo64 $sPRIo64 /**/
?H:#$d_PRIx64 PERL_PRIx64 $sPRIx64 /**/
?H:#$d_PRIx64 PERL_PRIXU64 $sPRIXU64 /**/
?H:.
?T:yyy
?F:!try
: Check 64bit sizes
echo " "

if $test X"$quadtype" != X; then

echo "Checking how to print 64-bit integers..." >&4

if $test X"$sPRId64" = X -a X"$quadtype" = Xint; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
 int q = 12345678901;

 printf("%ld\n", q);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  12345678901)
   sPRId64="'d'"; sPRIi64="'i'"; sPRIu64="'u'";
   sPRIo64="'o'"; sPRIx64="'x'"; sPRIXU64="'X'";
   echo "We will use %d."
   ;;
  esac
 fi
fi

if $test X"$sPRId64" = X -a X"$quadtype" = Xlong; then
```

```
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
 long q = 12345678901;
 printf("%ld\n", q);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  12345678901)
   sPRId64='"ld"'; sPRIi64='"li"'; sPRIu64='"lu"';
   sPRIo64='"lo"'; sPRIx64='"lx"'; sPRIXU64='"lX"';
   echo "We will use %ld."
   ;;
  esac
 fi
fi

if $test X"$sPRId64" = X -a X"$i_inttypes" = X"$define" -a X"$quadtype" = Xint64_t; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <inttypes.h>
#include <stdio.h>
int main() {
 int64_t q = 12345678901;
 printf("%" PRId64 "\n", q);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  12345678901)
   sPRId64=PRId64;
 sPRIi64=PRIi64; sPRIu64=PRIu64;
   sPRIo64=PRIo64; sPRIx64=PRIx64; sPRIXU64=PRIXU64;
   echo "We will use the C9X style."
   ;;
  esac
 fi
fi

if $test X"$sPRId64" = X -a X"$quadtype" != X; then
 $cat >try.c <<EOCP
#include <sys/types.h>
```

```
#include <stdio.h>
int main() {
 $quadtype q = 12345678901;
 printf("%Ld\n", q);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  12345678901)
   sPRId64='"Ld"'; sPRIi64='"Li"'; sPRIu64='"Lu"';
   sPRIo64='"Lo"'; sPRIx64='"Lx"'; sPRIXU64='"LX"';
   echo "We will use %Ld."
   ;;
  esac
 fi
fi

if $test X"$sPRId64" = X -a X"$quadtype" = X"long long"; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
 long long q = 12345678901LL; /* AIX cc requires the LL suffix. */
 printf("%lld\n", q);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  12345678901)
   sPRId64='"lld"'; sPRIi64='"lli"'; sPRIu64='"llu"';
   sPRIo64='"llo"'; sPRIx64='"llx"';
 sPRIXU64='"llX"';
   echo "We will use the %lld style."
   ;;
  esac
 fi
fi

if $test X"$sPRId64" = X -a X"$quadtype" != X; then
 $cat >try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
int main() {
 $quadtype q = 12345678901;
```

```
 printf("%qd\n", q);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  12345678901)
   sPRId64="'qd'"; sPRIi64="'qi'"; sPRIu64="'qu'";
   sPRIo64="'qo'"; sPRIx64="'qx'"; sPRIXU64="'qX'";
   echo "We will use %qd."
   ;;
  esac
 fi
fi

if $test X"$sPRId64" = X; then
 echo "Cannot figure out how to print 64-bit integers." >&4
fi
$rm_try

fi

case "$sPRId64" in
") d_PRId64="$undef"; d_PRIi64="$undef"; d_PRIu64="$undef";
 d_PRIo64="$undef"; d_PRIx64="$undef"; d_PRIXU64="$undef";
 ;;
*) d_PRId64="$define"; d_PRIi64="$define"; d_PRIu64="$define";
 d_PRIo64="$define"; d_PRIx64="$define"; d_PRIXU64="$define";
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/quadfio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Extras.U,v$
?RCS:
?RCS: Copyright (c) 2001, Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:extras: Myread Oldconfig Setvar rm
?MAKE: -pick add $@ %<
?Y:TOP
?S:extras:
```

```
?S: This variable holds a list of extra modules to install.
?S:.
: See if we want extra modules installed
echo " "
case "$extras" in
") dflt='n';;
*) dflt='y';;
esac
cat <<EOM
Perl can be built with extra modules or bundles of modules which
will be fetched from the CPAN and installed alongside Perl.

Notice that you will need access to the CPAN; either via the Internet,
or a local copy, for example a CD-ROM or a local CPAN mirror.  (You will
be asked later to configure the CPAN.pm module which will in turn do
the installation of the rest of the extra modules or bundles.)

Notice also that if the modules require
 any external software such as
libraries and headers (the libz library and the zlib.h header for the
Compress::Zlib module, for example) you MUST have any such software
already installed, this configuration process will NOT install such
things for you.

If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp='Install any extra modules (y or n)?'
. ./myread
case "$ans" in
y|Y)
 cat <<EOM

Please list any extra modules or bundles to be installed from CPAN,
with spaces between the names.  The names can be in any format the
'install' command of CPAN.pm will understand.  (Answer 'none',
without the quotes, to install no extra modules or bundles.)
EOM
 rp='Extras?'
 dflt="$extras"
 . ./myread
 extras="$ans"
esac
case "$extras" in
"|'none')
 val=''
 $rm -f ../extras.lst
 ;;
*) echo "(Saving the list of extras for later...)"
```

```
 echo "$extras" > ../extras.lst
 val='"$extras"'
 ;;
esac
set extras
eval $setvar
echo " "
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/Extras.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: orderlib.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  16:18:18  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: likewise for .o replaced by $_o
?RCS: patch61: now uses the ar located by Loc.U
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:33:04  ram
?RCS: patch45: allows hint files to specify their own value for 'ranlib'
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:26:48  ram
?RCS: patch36: now performs a real small compile for accurate checks (ADO)
?RCS:
?RCS: Revision 3.0.1.1
  1994/08/29  16:31:17  ram
?RCS: patch32: use cc variable instead of hardwired 'cc' in 1st compile
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:orderlib ranlib: Loc ar cat test rm +cc +ccflags +ldflags +libs _a _o
?MAKE: -pick add $@ %<
?S:orderlib:
?S: This variable is "true" if the components of libraries must be ordered
?S: (with `lorder $* | tsort`) before placing them in an archive.  Set to
?S: "false" if ranlib or ar can generate random libraries.
```

```
?S:.
?S:ranlib:
?S: This variable is set to the pathname of the ranlib program, if it is
?S: needed to generate random libraries.  Set to ":" if ar can generate
?S: random libraries or if random libraries are not supported
?S:.
?F:!foobar
: see if ar generates random libraries by itself
echo " "
echo "Checking how to generate random libraries on your machine..." >&4
?X: Some systems (like MIPS) complain when running ar... Others like Ultrix
?X: need an explicit 'ar ts'
 to add the table of contents.
?X: Still others like Linux run ar ts successfully, but still need ranlib.
?X: This set of tests seems the minimum necessary to check out Linux.
?X: We need to explicitly put the entries in out-of-order so that Sun's ld
?X: will fail.  (Otherwise it complains, but gives an exit status of 0.)
echo 'int bar1() { return bar2(); }' > bar1.c
echo 'int bar2() { return 2; }' > bar2.c
$cat > foo.c <<'EOP'
int main() { printf("%d\n", bar1()); exit(0); }
EOP
$cc $ccflags -c bar1.c >/dev/null 2>&1
$cc $ccflags -c bar2.c >/dev/null 2>&1
$cc $ccflags -c foo.c >/dev/null 2>&1
$ar rc bar$_a bar2$_o bar1$_o >/dev/null 2>&1
if $cc $ccflags $ldflags -o foobar foo$_o bar$_a $libs > /dev/null 2>&1 &&
 ./foobar >/dev/null 2>&1; then
 echo "ar appears to generate random libraries itself."
 orderlib=false
 ranlib=":"
elif $ar ts bar$_a >/dev/null 2>&1 &&
 $cc $ccflags $ldflags -o foobar foo$_o bar$_a $libs > /dev/null 2>&1 &&
 ./foobar >/dev/null 2>&1; then
  echo "a table of contents
 needs to be added with 'ar ts'."
  orderlib=false
  ranlib="$ar ts"
else
?X: Allow hints to specify their own ranlib "script". For instance, on
?X: some NeXT machines, the timestamp put by ranlib is not correct, and this
?X: may raise tedious recompiles for nothing. Therefore, NeXT may add the
?X: ranlib='sleep 5; /bin/ranlib' line in their hints to "fix" that.
?X: (reported by Andreas Koenig <k@franz.ww.tu-berlin.de>)
 case "$ranlib" in
 :) ranlib=";;
 ")
  ranlib=`./loc ranlib X /usr/bin /bin /usr/local/bin`
```

```
  $test -f $ranlib || ranlib="
  ;;
 esac
 if $test -n "$ranlib"; then
  echo "your system has '$ranlib'; we'll use that."
  orderlib=false
 else
  echo "your system doesn't seem to support random libraries"
  echo "so we'll use lorder and tsort to order the libraries."
  orderlib=true
  ranlib=":"
 fi
fi
$rm -f foo* bar*
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/orderlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: abortsig.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:02:19  ram
?RCS: patch36: call ./usg explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:20  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:abortsig: Myread Oldconfig Guess cat +cc ccflags rm
?MAKE: -pick add $@ %<
?S:abortsig:
?S: This variable holds the name of the signal used by the abort() call.
?S:.
?C:ABORTSIG:
?C: This symbol holds the signal number (symbol) used by the abort() call. To
?C: actually
 define the signal symbol, <signal.h> should be included.
?C:.
?H:#define ABORTSIG $abortsig  /**/
```

```
?H:.
?T:signal
: which signal is sent by abort ?
echo " "
case "$abortsig" in
")
 echo "Checking to see which signal is sent to the process by abort()..." >&4
 echo "abort" > abort.sh
 chmod +x abort.sh
?X: SIGABRT should replace SIGIOT on USG machines in a near future (1991).
 for signal in SIGIOT SIGILL SIGABRT; do
  case "$abortsig" in
  ") $cat >abort.c <<EOP
/* FIXME: Missing #include <stdlib.h>*/
#include <signal.h>
caught() { exit(0); } /* FIXME: Use _exit() or _Exit() in signal handler  */
int main()
{
#ifdef $signal
 signal($signal, caught);
#endif
 if (-1 == abort())
  exit(1);
 exit(1);
}
EOP
?X: We have to use the abort.sh script otherwise sh behaves strangely on AIX.
   if $cc $ccflags -o abort abort.c >/dev/null 2>&1; then
    (./abort.sh) >/dev/null 2>&1
    case $? in
    0) abortsig="$signal";;
    esac
   fi
   ;;
  esac
 done
 ;;
esac
case "$abortsig" in
") echo
 "(I wasn't able to compute the signal name--guessing)"
 if ./usg; then
  dflt="SIGIOT"
 else
  dflt="SIGILL"
 fi;;
*)  dflt="$abortsig"
 ;;
```

```
esac
rp="Which signal does abort() send to the process (signal name)?"
. ./myread
abortsig="$ans"
$rm -f core abort.sh abort abort.c
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/abortsig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2017-2018, H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_mkostemp: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkostemp:
?S: This variable conditionally defines HAS_MKOSTEMP if mkostemp() is
?S: available to exclusively create and open a uniquely named (with a
?S: suffix) temporary file.
?S:.
?C:HAS_MKOSTEMP:
?C: This symbol, if defined, indicates that the mkostemp routine is
?C: available to exclusively create and open a uniquely named (with a
?C: suffix) temporary file.
?C:.
?H:#$d_mkostemp HAS_MKOSTEMP /**/
?H:.
?LINT:set d_mkostemp
: see if mkostemp exists
set mkostemp d_mkostemp
eval $inlibc
```

Found
 in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_mkostemp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_static_inline.U,v $
?RCS:
?RCS: Copyright (c) 2010 Andrew Dougherty
?RCS:
```

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafayette.edu>
?RCS:
?MAKE:d_static_inline perl_static_inline: Compile Setvar gccversion \
 cat echo run hint rm rm_try
?MAKE: -pick add $@ %<
?S:d_static_inline:
?S: This variable conditionally defines the HAS_STATIC_INLINE symbol,
?S: which indicates that the C compiler supports C99-style static
?S: inline.  That is, the function can't be called from another
?S: translation unit.
?S:.
?S:perl_static_inline:
?S: This variable defines the PERL_STATIC_INLINE
 symbol to
?S: the best-guess incantation to use for static inline functions.
?S: Possibilities include
?S:  static inline       (c99)
?S:  static __inline__   (gcc -ansi)
?S:  static __inline     (MSVC)
?S:  static _inline      (older MSVC)
?S:  static              (c89 compilers)
?S:.
?C:HAS_STATIC_INLINE :
?C: This symbol, if defined, indicates that the C compiler supports
?C: C99-style static inline.  That is, the function can't be called
?C: from another translation unit.
?C:.
?C:PERL_STATIC_INLINE:
?C: This symbol gives the best-guess incantation to use for static
?C: inline functions.  If HAS_STATIC_INLINE is defined, this will
?C: give C99-style inline.  If HAS_STATIC_INLINE is not defined,
?C: this will give a plain 'static'.  It will always be defined
?C: to something that gives static linkage.
?C: Possibilities include
?C:  static inline       (c99)
?C:  static __inline__   (gcc -ansi)
?C:  static __inline     (MSVC)
?C:  static _inline      (older MSVC)
?C:  static
        (c89 compilers)
?C:.
?H:#$d_static_inline HAS_STATIC_INLINE    /**/
```

```
?H:#define PERL_STATIC_INLINE $perl_static_inline /**/
?H:.
?LINT:set d_static_inline
?T:inline xxx
?F:!try
: see what flavor, if any, of static inline is supported
echo " "
echo "Checking to see if your system supports static inline..."
?X: Build two programs.  The first uses static inline in file a.c and
?X: should work.  The second also includes b.c which tries to link against
?X: the static function in a.c.  This should fail.
?X:.
$cat > try.c <<'EOCP'
#include <stdlib.h>
extern int f_via_a(int x);
extern int f_via_b(int x);
int main(int argc, char **argv)
{
  int y;

  y = f_via_a(0);
#ifdef USE_B
  y = f_via_b(0);
#endif
  if (y == 42) {
     return EXIT_SUCCESS;
  }
  else {
     return EXIT_FAILURE;
  }
}
EOCP
$cat > a.c <<'EOCP'
static INLINE int f(int x) {
  int y;
  y = x + 42;
  return y;
}

int f_via_a(int x)
{
  return f(x);
}
EOCP
$cat > b.c <<'EOCP'
extern int f(int x);

int
```

```
 f_via_b(int x)
{
   return f(x);
}
EOCP

# Respect a hint (or previous) value for perl_static_inline, if there is one.
case "$perl_static_inline" in
") # Check the various possibilities, and break out on success.
 # For gcc, prefer __inline__, which will still permit
 # cflags.SH to add in -ansi.
 case "$gccversion" in
  ") xxx="inline __inline__ __inline _inline";;
  *)  xxx="__inline__ inline __inline _inline";;
 esac
 for inline in $xxx; do
  set try -DINLINE=$inline a.c
  if eval $compile && $run ./try; then
   # Now make sure there is no external linkage of static
   # functions
   set try -DINLINE=$inline -DUSE_B a.c b.c
   if eval $compile && $run ./try; then
    $echo "Your compiler supports static $inline, " >&4
    $echo "but it also creates an external definition," >&4
    $echo "so I won't use it." >&4
    val=$undef
   else
    $echo "Your compiler supports static $inline." >&4
    val=$define
    perl_static_inline="static $inline";
    break;
   fi
  else
   $echo
 "Your compiler does NOT support static $inline." >&4
   val="$undef"
  fi
 done
 ;;
*inline*) # Some variant of inline exists.
 echo "Keeping your $hint value of $perl_static_inline."
 val=$define
 ;;
static)  # No inline capabilities
 echo "Keeping your $hint value of $perl_static_inline."
 val=$undef
 ;;
*)  # Unrecognized previous value -- blindly trust the supplied
```

```
 # value and hope it makes sense.  Use old value for
 # d_static_inline, if there is one.
 echo "Keeping your $hint value of $perl_static_inline."
 case "$d_static_inline" in
  ") val=$define ;;
  *)  val=$d_static_inline ;;
 esac
 ;;
esac
# Fallback to plain 'static' if nothing worked.
case "$perl_static_inline" in
")
 perl_static_inline="static"
 val=$undef
 ;;
esac
set d_static_inline
eval $setvar
$rm -f a.[co] b.[co]
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_static_inline.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_normsig.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_normsig.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:37:03  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:14:48  ram
?RCS: patch36: call ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_normsig jobslib: test Setvar Guess _a
?MAKE: -pick add $@ %<
```

```
?S:d_normsig:
?S: This variable conditionally
 defines the NORMSIG symbol, which
?S: indicates to the C program that the normal signal handling routines
?S: should be used, as opposed to the ones in 4.1bsd (sigset, etc.).
?S:.
?S:jobslib:
?S: This variable holds the argument to be passed to the loader to include
?S: the strange signal handling routines from 4.1bsd.  On systems that
?S: have NORMSIG defined this variable is null.
?S:.
?C:NORMSIG:
?C: This symbol, if defined, indicates that normal signal handling routines
?C: should be used, as opposed to the ones in 4.1bsd (sigset, etc.).
?C:.
?H:#$d_normsig NORMSIG  /**/
?H:.
?LINT:set d_normsig
: see if we need -ljobs and if we have sigset, etc.
echo " "
if $test -r /usr/lib/libjobs$_a || $test -r /usr/local/lib/libjobs$_a ; then
 echo "Jobs library found." >&4
 val="$undef"
 jobslib='-ljobs'
else
 if ./bsd; then
  echo "No jobs library found. (I suppose this is at least 4.2...)" >&4
 else
  echo "No jobs library found. (That's okay, we all have our faults.)" >&4
 fi
 val="$define"
 jobslib=''
fi
set
 d_normsig
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_normsig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: installstyle.U,v 1.2 1999/07/13 14:56:06 doughera Exp $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
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```

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: installstyle.U,v $
?RCS: Revision 1.2  1999/07/13 14:56:06  doughera
?RCS: Fix dependencies.  Add more comments.
?RCS:
?RCS: Revision 1.1  1999/07/12 17:30:41  doughera
?RCS: Initial revision
?RCS:
?RCS:
?MAKE:installstyle: prefix Myread
?MAKE: -pick add $@ %<
?X: Myread dependence is for dflt.
?S:installstyle:
?S: This variable describes the "style" of the perl installation.
?S: This is intended to be useful for tools that need to
?S: manipulate entire perl
 distributions.  Perl itself doesn't use
?S: this to find its libraries -- the library directories are
?S: stored directly in Config.pm.  Currently, there are only two
?S: styles:  "lib" and "lib/perl5".  The default library locations
?S: (e.g. privlib, sitelib) are either $prefix/lib or
?S: $prefix/lib/perl5.  The former is useful if $prefix is a
?S: directory dedicated to perl (e.g. /opt/perl), while the latter
?S: is useful if $prefix is shared by many packages, e.g. if
?S: $prefix=/usr/local.
?S:
?S: Unfortunately, while this "style" variable is used to set
?S: defaults for all three directory hierarchies (core, vendor, and
?S: site), there is no guarantee that the same style is actually
?S: appropriate for all those directories.  For example, $prefix
?S: might be /opt/perl, but $siteprefix might be /usr/local.
?S: (Perhaps, in retrospect, the "lib" style should never have been
?S: supported, but it did seem like a nice idea at the time.)
?S:
?S: The situation is even less clear for
 tools such as MakeMaker
?S: that can be used to install additional modules into
?S: non-standard places.  For example, if a user intends to install
?S: a module into a private directory (perhaps by setting PREFIX on
?S: the Makefile.PL command line), then there is no reason to
?S: assume that the Configure-time $installstyle setting will be
?S: relevant for that PREFIX.
?S:
?S: This may later be extended to include other information, so
?S: be careful with pattern-matching on the results.
```

```
?S:
?S: For compatibility with perl5.005 and earlier, the default
?S: setting is based on whether or not $prefix contains the string
?S: "perl".
?S:.
: determine installation style
: For now, try to deduce it from prefix unless it is already set.
: Reproduce behavior of 5.005 and earlier, maybe drop that in 5.7.
case "$installstyle" in
") case "$prefix" in
  *perl*) dflt='lib';;
  *) dflt='lib/perl5' ;;
 esac
 ;;
*) dflt="$installstyle" ;;
esac
: Probably not worth prompting for this since we prompt
 for all
: the directories individually, and the prompt would be too long and
: confusing anyway.
installstyle=$dflt
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/installstyle.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sunscanf.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:sunscanf: cat rm Myread +cc +ccflags test Setvar
?MAKE: -pick add $@ %<
?S:sunscanf:
?S: This variable is set if this system runs with the Sun version
?S: of scanf.
?S:.
?C:SUNSCANF:
```

```
?C: This variable is set if this system runs with the Sun version
?C: of scanf.
?C:.
?H:#$sunscanf  SUNSCANF  /**/
?H:.
?LINT:set sunscanf
: check to see what kinda scanf your using.
echo " "
echo "Checking
 to see what flavor of scanf you have..." >&4
$cat >scanf.c <<'EOCP'
int main()
{
 float value;

 sscanf("4.5","%g",&value);
 printf("%d\n", value == 4.5);
}
EOCP
if $cc $ccflags -o scanf scanf.c >/dev/null 2>&1 ; then
 if $test `scanf` = 0; then
  echo "Hmm.. seems your not running the USG flavor.."
  val="$undef"
 else
  echo "Uh... your running the USG flavor of scanf."
  val="$define"
 fi
else
 echo "(I can't seem to compile the test program... Guessing)"
 val="$undef"
fi
set sunscanf
eval $setvar
$rm -f scanf*
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/sunscanf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_stat.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_stat.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:28  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_stat: Inlibc
?MAKE: -pick add $@ %<
?S:d_stat:
?S: This variable conditionally defines HAS_STAT if stat() is
?S: available to get file status.
?S:.
?C:HAS_STAT (STAT):
?C: This symbol, if defined, indicates that the stat routine is
?C: available to get file status.
?C:.
?H:#$d_stat HAS_STAT /**/
?H:.
?LINT:set d_stat
: see if stat exists
set
 stat d_stat
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_stat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the WRITEME file.
?RCS:
?MAKE:d_writev: Inlibc
?MAKE: -pick add $@ %<
?S:d_writev:
?S: This variable conditionally defines the HAS_WRITEV symbol, which
?S: indicates to the C program that the writev() routine is available.
?S:.
?C:HAS_WRITEV:
?C: This symbol, if defined, indicates that the writev routine is
?C: available to do scatter writes.
?C:.
?H:#$d_writev HAS_WRITEV  /**/
?H:.
```

```
?LINT:set d_writev
: see if writev exists
set writev d_writev
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_writev.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_execinfo.U 34 2010-11-27 11:55:39Z rmanfredi $
?RCS:
?RCS: Copyright (c) 2011, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:i_execinfo: Inhdr
?MAKE: -pick add $@ %<
?S:i_execinfo:
?S: This variable conditionally defines the I_EXECINFO symbol, and indicates
?S: whether a C program may include <execinfo.h>, for backtrace() support.
?S:.
?C:I_EXECINFO:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <execinfo.h> for backtrace() support.
?C:.
?H:#$i_execinfo I_EXECINFO  /**/
?H:.
?LINT:set i_execinfo
: see if this is an execinfo.h system
set execinfo.h i_execinfo
eval
 $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_execinfo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: h_sysfile.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: h_sysfile.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:h_sysfile: Nothing
?MAKE: -pick add $@ %<
?S:h_sysfile:
?S: This is variable gets set in various places to tell i_sys_file that
?S: <sys/file.h> should be included.
?S:.
: Initialize h_sysfile
h_sysfile=false
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/h_sysfile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_stdstdio.U,v 3.0.1.3 1997/02/28 15:46:32 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Tye McQueen <tye@metronet.com>
?RCS:
?RCS: $Log: d_stdstdio.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:46:32  ram
?RCS: patch61: merged with perl5's unit
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  14:06:54  ram
?RCS: patch56: typo fix on ?C: line for FILE_bufsiz
?RCS: patch56: fixed unbalanced parenthesis (ADO)
?RCS: patch56: check whether FILE_cnt and FILE_ptr can be assigned to (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1995/05/12  12:12:11  ram
?RCS:
 patch54: complete rewrite by Tye McQueen to fit modern systems
?RCS:
```

```
?RCS: Revision 3.0  1993/08/18  12:07:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_stdstdio d_stdiobase stdio_ptr stdio_cnt \
 d_stdio_ptr_lval_sets_cnt d_stdio_ptr_lval_nochange_cnt stdio_base \
 stdio_bufsiz d_stdio_cnt_lval d_stdio_ptr_lval stdio_filbuf: cat \
 Compile contains rm_try d_gnulibc gnulibc_version i_stdlib \
 Setvar Findhdr Oldconfig run to
?MAKE: -pick weed $@ %<
?S:d_stdstdio:
?S: This variable conditionally defines USE_STDIO_PTR if this system
?S: has a FILE structure declaring usable _ptr and _cnt fields (or
?S: equivalent) in stdio.h.
?S:.
?S:stdio_ptr:
?S: This variable defines how, given a FILE pointer, fp, to access the
?S: _ptr field (or equivalent) of stdio.h's FILE structure.  This will
?S: be used to define the macro FILE_ptr(fp).
?S:.
?S:d_stdio_ptr_lval:
?S: This variable conditionally defines STDIO_PTR_LVALUE if the
?S: FILE_ptr macro can be used as an lvalue.
?S:.
?S:stdio_cnt:
?S: This
 variable defines how, given a FILE pointer, fp, to access the
?S: _cnt field (or equivalent) of stdio.h's FILE structure.  This will
?S: be used to define the macro FILE_cnt(fp).
?S:.
?S:d_stdio_cnt_lval:
?S: This variable conditionally defines STDIO_CNT_LVALUE if the
?S: FILE_cnt macro can be used as an lvalue.
?S:.
?S:d_stdio_ptr_lval_sets_cnt:
?S: This symbol is defined if using the FILE_ptr macro as an lvalue
?S: to increase the pointer by n has the side effect of decreasing the
?S: value of File_cnt(fp) by n.
?S:.
?S:d_stdio_ptr_lval_nochange_cnt:
?S: This symbol is defined if using the FILE_ptr macro as an lvalue
?S: to increase the pointer by n leaves File_cnt(fp) unchanged.
?S:.
?S:stdio_filbuf:
?S: This variable defines how, given a FILE pointer, fp, to tell
?S: stdio to refill its internal buffers (?).  This will
?S: be used to define the macro FILE_filbuf(fp).
?S:.
?S:d_stdiobase:
```

```
?S: This variable conditionally defines USE_STDIO_BASE if this system
?S: has
 a FILE structure declaring a usable _base field (or equivalent)
?S: in stdio.h.
?S:.
?S:stdio_base:
?S: This variable defines how, given a FILE pointer, fp, to access the
?S: _base field (or equivalent) of stdio.h's FILE structure.  This will
?S: be used to define the macro FILE_base(fp).
?S:.
?S:stdio_bufsiz:
?S: This variable defines how, given a FILE pointer, fp, to determine
?S: the number of bytes store in the I/O buffer pointer to by the
?S: _base field (or equivalent) of stdio.h's FILE structure.  This will
?S: be used to define the macro FILE_bufsiz(fp).
?S:.
?C:USE_STDIO_PTR ~ d_stdstdio (USE_STD_STDIO STDSTDIO):
?C: This symbol is defined if the _ptr and _cnt fields (or similar)
?C: of the stdio FILE structure can be used to access the stdio buffer
?C: for a file handle.  If this is defined, then the FILE_ptr(fp)
?C: and FILE_cnt(fp) macros will also be defined and should be used
?C: to access these fields.
?C:.
?C:FILE_ptr:
?C: This macro is used to access the _ptr
 field (or equivalent) of the
?C: FILE structure pointed to by its argument. This macro will always be
?C: defined if USE_STDIO_PTR is defined.
?C:.
?C:STDIO_PTR_LVALUE:
?C: This symbol is defined if the FILE_ptr macro can be used as an
?C: lvalue.
?C:.
?C:FILE_cnt:
?C: This macro is used to access the _cnt field (or equivalent) of the
?C: FILE structure pointed to by its argument. This macro will always be
?C: defined if USE_STDIO_PTR is defined.
?C:.
?C:STDIO_CNT_LVALUE:
?C: This symbol is defined if the FILE_cnt macro can be used as an
?C: lvalue.
?C:.
?C:STDIO_PTR_LVAL_SETS_CNT:
?C: This symbol is defined if using the FILE_ptr macro as an lvalue
?C: to increase the pointer by n has the side effect of decreasing the
?C: value of File_cnt(fp) by n.
?C:.
?C:STDIO_PTR_LVAL_NOCHANGE_CNT:
```

```
?C: This symbol is defined if using the FILE_ptr macro as an lvalue
?C: to increase the pointer by n leaves File_cnt(fp) unchanged.
?C:.
?C:FILE_filbuf:
?C: This macro is used to access the internal stdio
 _filbuf function
?C: (or equivalent), if STDIO_CNT_LVALUE and STDIO_PTR_LVALUE
?C: are defined.  It is typically either _filbuf or __filbuf.
?C: This macro will only be defined if both STDIO_CNT_LVALUE and
?C: STDIO_PTR_LVALUE are defined.
?C:.
?H:?d_stdstdio:#$d_stdstdio USE_STDIO_PTR /**/
?H:?d_stdstdio:#ifdef USE_STDIO_PTR
?H:#define FILE_ptr(fp) $stdio_ptr
?H:#$d_stdio_ptr_lval STDIO_PTR_LVALUE  /**/
?H:#define FILE_cnt(fp) $stdio_cnt
?H:#$d_stdio_cnt_lval STDIO_CNT_LVALUE  /**/
?H:#$d_stdio_ptr_lval_sets_cnt STDIO_PTR_LVAL_SETS_CNT /**/
?H:#$d_stdio_ptr_lval_nochange_cnt STDIO_PTR_LVAL_NOCHANGE_CNT /**/
?H:?FILE_filbuf:#if defined(STDIO_PTR_LVALUE) && defined(STDIO_CNT_LVALUE)
?H:?FILE_filbuf:#define FILE_filbuf(fp) $stdio_filbuf  /**/
?H:?FILE_filbuf:#endif
?H:?d_stdstdio:#endif
?H:.
?W:d_stdstdio:FILE_ptr FILE_cnt FILE_filbuf
?C:USE_STDIO_BASE ~ d_stdiobase:
?C: This symbol is defined if the _base field (or similar) of the
?C: stdio FILE structure can be used to access the
 stdio buffer for
?C: a file handle.  If this is defined, then the FILE_base(fp) macro
?C: will also be defined and should be used to access this field.
?C: Also, the FILE_bufsiz(fp) macro will be defined and should be used
?C: to determine the number of bytes in the buffer.  USE_STDIO_BASE
?C: will never be defined unless USE_STDIO_PTR is.
?C:.
?C:FILE_base:
?C: This macro is used to access the _base field (or equivalent) of the
?C: FILE structure pointed to by its argument. This macro will always be
?C: defined if USE_STDIO_BASE is defined.
?C:.
?C:FILE_bufsiz:
?C: This macro is used to determine the number of bytes in the I/O
?C: buffer pointed to by _base field (or equivalent) of the FILE
?C: structure pointed to its argument. This macro will always be defined
?C: if USE_STDIO_BASE is defined.
?C:.
?H:?d_stdiobase:#$d_stdiobase USE_STDIO_BASE /**/
?H:?d_stdiobase:#ifdef USE_STDIO_BASE
```

```
?H:#define FILE_base(fp) $stdio_base
?H:#define FILE_bufsiz(fp) $stdio_bufsiz
?H:?d_stdiobase:#endif
?H:.
?W:d_stdiobase:FILE_base
 FILE_bufsiz
?T:ptr_lval cnt_lval filbuf xxx
?F:!try
?LINT:set d_stdstdio d_stdiobase
: see if _ptr and _cnt from stdio act std
echo " "

if $contains '_lbfsize' `./findhdr stdio.h` >/dev/null 2>&1 ; then
 echo "(Looks like you have stdio.h from BSD.)"
 case "$stdio_ptr" in
 '') stdio_ptr='((fp)->_p)'
  ptr_lval=$define
  ;;
 *) ptr_lval=$d_stdio_ptr_lval;;
 esac
 case "$stdio_cnt" in
 '') stdio_cnt='((fp)->_r)'
  cnt_lval=$define
  ;;
 *) cnt_lval=$d_stdio_cnt_lval;;
 esac
 case "$stdio_base" in
 '') stdio_base='((fp)->_ub._base ? (fp)->_ub._base : (fp)->_bf._base)';;
 esac
 case "$stdio_bufsiz" in
 '') stdio_bufsiz='((fp)->_ub._base ? (fp)->_ub._size : (fp)->_bf._size)';;
 esac
elif $contains '_IO_fpos_t' `./findhdr stdio.h` `./findhdr libio.h` >/dev/null 2>&1 ; then
 echo "(Looks like you have stdio.h from Linux.)"
 case "$stdio_ptr" in
 '') stdio_ptr='((fp)->_IO_read_ptr)'
  ptr_lval=$define
  ;;
 *) ptr_lval=$d_stdio_ptr_lval;;
 esac
 case "$stdio_cnt"
 in
 '') stdio_cnt='((fp)->_IO_read_end - (fp)->_IO_read_ptr)'
  cnt_lval=$undef
  ;;
 *) cnt_lval=$d_stdio_cnt_lval;;
 esac
 case "$stdio_base" in
```

```
 ") stdio_base='((fp)->_IO_read_base)';;
 esac
 case "$stdio_bufsiz" in
 ") stdio_bufsiz='((fp)->_IO_read_end - (fp)->_IO_read_base)';;
 esac
else
 case "$stdio_ptr" in
 ") stdio_ptr='((fp)->_ptr)'
  ptr_lval=$define
  ;;
 *) ptr_lval=$d_stdio_ptr_lval;;
 esac
 case "$stdio_cnt" in
 ") stdio_cnt='((fp)->_cnt)'
  cnt_lval=$define
  ;;
 *) cnt_lval=$d_stdio_cnt_lval;;
 esac
 case "$stdio_base" in
 ") stdio_base='((fp)->_base)';;
 esac
 case "$stdio_bufsiz" in
 ") stdio_bufsiz='((fp)->_cnt + (fp)->_ptr - (fp)->_base)';;
 esac
fi

: test whether _ptr and _cnt really work
echo "Checking how std your stdio is..." >&4
$cat >try.c <<EOP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#define FILE_ptr(fp) $stdio_ptr
#define FILE_cnt(fp) $stdio_cnt
int main() {
 FILE *fp = fopen("try.c", "r");
 char c = getc(fp);
 if
 (
  18 <= FILE_cnt(fp) &&
  strncmp(FILE_ptr(fp), "include <stdio.h>\n", 18) == 0
 )
  exit(0);
 exit(1);
}
EOP
```

```
val="$undef"
set try
if eval $compile && $to try.c; then
 if $run ./try; then
  echo "Your stdio acts pretty std."
  val="$define"
 else
  echo "Your stdio isn't very std."
 fi
else
 echo "Your stdio doesn't appear very std."
fi
$rm_try

# glibc 2.2.90 and above apparently change stdio streams so Perl's
# direct buffer manipulation no longer works.  The Configure tests
# should be changed to correctly detect this, but until then,
# the following check should at least let perl compile and run.
# (This quick fix should be updated before 5.8.1.)
# To be defensive, reject all unknown versions, and all versions  > 2.2.9.
# A. Dougherty, June 3, 2002.
case "$d_gnulibc" in
$define)
 case "$gnulibc_version" in
 2.[01]*)  ;;
 2.2) ;;
 2.2.[0-9]) ;;
 *)  echo "But I will not snoop inside glibc $gnulibc_version stdio buffers."
  val="$undef"
  ;;
 esac
 ;;
esac
set d_stdstdio
eval
 $setvar

@if STDIO_PTR_LVALUE || d_stdio_ptr_lval
: Can _ptr be used as an lvalue?
?X: Only makes sense if we have a known stdio implementation.
case "$d_stdstdio$ptr_lval" in
$define$define) val=$define ;;
*) val=$undef ;;
esac
set d_stdio_ptr_lval
eval $setvar
@end
```

```
@if STDIO_CNT_LVALUE || d_stdio_cnt_lval
: Can _cnt be used as an lvalue?
?X: Only makes sense if we have a known stdio implementation.
case "$d_stdstdio$cnt_lval" in
$define$define) val=$define ;;
*) val=$undef ;;
esac
set d_stdio_cnt_lval
eval $setvar
@end

@if FILE_filbuf
: How to access the stdio _filbuf or __filbuf function.
: If this fails, check how the getc macro in stdio.h works.
case "${d_stdio_ptr_lval}${d_stdio_cnt_lval}" in
${define}${define})
 : Try $hint value, if any, then _filbuf, __filbuf, _fill, then punt.
 : _fill is for os/2.
 xxx='notok'
 for filbuf in $stdio_filbuf '_filbuf(fp)' '__filbuf(fp) ' '_fill(fp)' ; do
  $cat >try.c <<EOP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#define
 FILE_ptr(fp) $stdio_ptr
#define FILE_cnt(fp) $stdio_cnt
#define FILE_filbuf(fp) $filbuf
int main() {
 FILE *fp = fopen("try.c", "r");
 int c;
 c = getc(fp);
 c = FILE_filbuf(fp);  /* Just looking for linker errors.*/
 exit(0);
}
EOP
  set try
  if eval $compile && $to try.c && $run ./try; then
   echo "Your stdio appears to use $filbuf"
   stdio_filbuf="$filbuf"
   xxx='ok'
   break
  else
   echo "Hmm.  $filbuf doesn't seem to work."
  fi
  $rm_try
```

```
 done
 case "$xxx" in
 notok) echo "I can't figure out how to access _filbuf"
   echo "I'll just have to work around it."
   d_stdio_ptr_lval="$undef"
   d_stdio_cnt_lval="$undef"
   ;;
 esac
 ;;
esac
@end

@if STDIO_PTR_LVALUE
: test whether setting _ptr sets _cnt as a side effect
d_stdio_ptr_lval_sets_cnt="$undef"
d_stdio_ptr_lval_nochange_cnt="$undef"
case "$d_stdio_ptr_lval$d_stdstdio" in
$define$define)
 echo "Checking to see what happens if we set the stdio ptr..." >&4
$cat >try.c <<EOP
#include <stdio.h>
/* Can
 we scream? */
/* Eat dust sed :-) */
/* In the buffer space, no one can hear you scream. */
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#define FILE_ptr(fp) $stdio_ptr
#define FILE_cnt(fp) $stdio_cnt
#include <sys/types.h>
int main() {
 FILE *fp = fopen("try.c", "r");
 int c;
 char *ptr;
 size_t cnt;
 if (!fp) {
     puts("Fail even to read");
     exit(1);
 }
 c = getc(fp); /* Read away the first # */
 if (c == EOF) {
     puts("Fail even to read");
     exit(1);
 }
 if (!(
  18 <= FILE_cnt(fp) &&
```

```
 strncmp(FILE_ptr(fp), "include <stdio.h>\n", 18) == 0
)) {
 puts("Fail even to read");
 exit (1);
}
ptr = (char*) FILE_ptr(fp);
cnt = (size_t)FILE_cnt(fp);

FILE_ptr(fp) += 42;

if ((char*)FILE_ptr(fp) != (ptr + 42)) {
 printf("Fail ptr check %p != %p", FILE_ptr(fp), (ptr + 42));
 exit (1);
}
if (FILE_cnt(fp) <= 20) {
 printf ("Fail (<20 chars to test)");
 exit (1);
}
if (strncmp(FILE_ptr(fp), "Eat dust sed :-) */\n", 20) != 0) {
 puts("Fail compare");
 exit
(1);
}
if (cnt == FILE_cnt(fp)) {
 puts("Pass_unchanged");
 exit (0);
}
if (FILE_cnt(fp) == (cnt - 42)) {
 puts("Pass_changed");
 exit (0);
}
printf("Fail count was %d now %d\n", cnt, FILE_cnt(fp));
return 1;

}
EOP
set try
if eval $compile && $to try.c; then
 case `$run ./try` in
 Pass_changed)
  echo "Increasing ptr in your stdio decreases cnt by the same amount.  Good." >&4
  d_stdio_ptr_lval_sets_cnt="$define" ;;
 Pass_unchanged)
  echo "Increasing ptr in your stdio leaves cnt unchanged.  Good." >&4
  d_stdio_ptr_lval_nochange_cnt="$define" ;;
 Fail*)
  echo "Increasing ptr in your stdio didn't do exactly what I expected.  We'll not be doing that then." >&4 ;;
 *)
```

```
  echo "It appears attempting to set ptr in your stdio is a bad plan." >&4 ;;
 esac
 else
  echo "It seems we can't set ptr in your stdio.  Nevermind." >&4
 fi
 $rm_try
 ;;
esac
@end

@if d_stdiobase || USE_STDIO_BASE || FILE_base || FILE_bufsiz
: see if _base is also standard
val="$undef"
case
 "$d_stdstdio" in
$define)
 $cat >try.c <<EOP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#define FILE_base(fp) $stdio_base
#define FILE_bufsiz(fp) $stdio_bufsiz
int main() {
 FILE *fp = fopen("try.c", "r");
 char c = getc(fp);
 if (
  19 <= FILE_bufsiz(fp) &&
  strncmp(FILE_base(fp), "#include <stdio.h>\n", 19) == 0
 )
  exit(0);
 exit(1);
}
EOP
 set try
 if eval $compile && $to try.c; then
  if $run ./try; then
   echo "And its _base field acts std."
   val="$define"
  else
   echo "But its _base field isn't std."
  fi
 else
  echo "However, it seems to be lacking the _base field."
 fi
 $rm_try
 ;;
```

```
esac
set d_stdiobase
eval $setvar

@end
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_stdstdio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_dld.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_dld.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:20:07  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:i_dld: Inhdr
?MAKE: -pick add $@ %<
?S:i_dld:
?S: This variable conditionally defines the I_DLD symbol, which
?S: indicates to the C program that <dld.h> (GNU dynamic loading)
?S: exists and should be included.
?S:.
?C:I_DLD:
?C: This symbol, if defined, indicates that <dld.h>
 exists and should
?C: be included before using GNU dynamic loading features.
?C:.
?H:#$i_dld I_DLD /**/
?H:.
?LINT:set i_dld
: see if dld is available
set dld.h i_dld
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/dist/U/i_dld.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_regcmp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_regcmp.U,v $
?RCS: Revision 3.0.1.1  1995/01/30  14:34:45  ram
?RCS: patch49: now looks for POSIX regcomp() routine
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:53  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_regcmp d_re_comp d_regcomp: Csym cat
?MAKE: -pick add $@ %<
?S:d_regcomp:
?S: This variable conditionally defines the HAS_REGCOMP symbol, which
?S: indicates to the C program that the regcomp() routine is available
?S: for regular
 pattern matching (usually on POSIX.2 conforming systems).
?S:.
?S:d_regcmp:
?S: This variable conditionally defines the HAS_REGCMP symbol, which
?S: indicates to the C program that the regcmp() routine is available
?S: for regular pattern matching (usually on System V).
?S:.
?S:d_re_comp:
?S: This variable conditionally defines the HAS_RECOMP symbol, which
?S: indicates to the C program that the re_comp() routine is available
?S: for regular pattern matching (usually on BSD). If so, it is likely that
?S: re_exec() exists.
?S:.
?C:HAS_REGCOMP (REGCOMP):
?C: This symbol, if defined, indicates that the regcomp() routine is
?C: available to do some regular pattern matching (usually on POSIX.2
?C: conforming systems).
?C:.
?C:HAS_REGCMP (REGCMP):
?C: This symbol, if defined, indicates that the regcmp() routine is
?C: available to do some regular pattern matching (usually on System V).
?C:.
```

```
?C:HAS_RECOMP (RECOMP):
?C: This symbol, if defined, indicates that the re_comp() routine is
?C: available
 to do some regular pattern matching (usually on BSD). If so,
?C: it is likely that re_exec() be available.
?C:.
?H:#$d_regcomp HAS_REGCOMP  /* POSIX.2 */
?H:#$d_regcmp HAS_REGCMP  /* sysV */
?H:#$d_re_comp HAS_RECOMP  /* BSD */
?H:.
?T:val
: see if regcomp, regcmp, or re_comp exist, for regular pattern matching
echo " "
if set regcomp val -f d_regcomp; eval $csym; $val; then
 echo 'regcomp() found.' >&4
 d_regcomp="$define"
 d_regcmp="$undef"
 d_re_comp="$undef"
elif set regcmp val -f d_regcmp; eval $csym; $val; then
 echo 'regcmp() found.' >&4
 d_regcmp="$define"
 d_regcomp="$undef"
 d_re_comp="$undef"
elif set re_comp val -f d_re_comp; eval $csym; $val; then
 echo 're_comp() found, assuming re_exec() also exists.' >&4
 d_re_comp="$define"
 d_regcomp="$undef"
 d_regcmp="$undef"
else
 $cat >&4 <<EOM
No regcomp(), regcmp() nor re_comp() found !! No regular pattern matching.
EOM
 d_regcmp="$undef"
 d_re_comp="$undef"
 d_regcomp="$undef"
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_regcmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: perlpath.U,v $
?RCS: Revision 3.0.1.2  1995/09/25  09:17:04  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:33:53  ram
?RCS: patch45: can now use Loc variables since path stripping is deferred
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:32  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this unit is to locate perl good enough to construct a #!
?X:
?MAKE:perlpath: Getfile Oldconfig Loc perl
?MAKE: -pick
 add $@ %<
?Y:TOP
?S:perlpath:
?S: This variable contains the eventual value of the PERLPATH symbol,
?S: which contains the absolute location of the perl interpreter.
?S:.
?C:PERLPATH:
?C: This symbol contains the absolute location of the perl interpreter.
?C:.
?H:#define PERLPATH "$perlpath"  /**/
?H:.
: determine perl absolute location
case "$perlpath" in
")
 if test -f /usr/bin/perl; then
  dflt=/usr/bin/perl
 else
  case "$perl" in
  */*) dflt="$perl";;
  *) dflt=/usr/bin/perl;;
  esac
 fi
 ;;
*)  dflt="$perlpath"
 ;;
esac
echo " "
fn=f~/
rp="Where is perl located on your system?"
```

```
. ./getfile
perlpath="$ans"
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/perlpath.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isless: cat Compile rm_try Setvar
?MAKE: -pick add $@ %<
?S:d_isless:
?S: This variable conditionally defines the HAS_ISLESS symbol, which
?S: indicates to the C program that the isless() routine is available.
?S:.
?C:HAS_ISLESS:
?C: This symbol, if defined, indicates that the isless routine is
?C: available to do the isless function.
?C:.
?H:#$d_isless HAS_ISLESS  /**/
?H:.
?LINT:set d_isless
: check for isless
echo "Checking to see if you have isless..." >&4
$cat >try.c <<EOCP
#include <math.h>
int main() { return isless(2.0, 1.0); }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have isless."
else
 val="$undef"
 echo "You do not have isless."
fi
$rm_try
set d_isless
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_isless.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_class: Inlibc
?MAKE: -pick add $@ %<
?S:d_class:
?S: This variable conditionally defines the HAS_CLASS symbol, which
?S: indicates to the C program that the class() routine is available.
?S:.
?C:HAS_CLASS:
?C: This symbol, if defined, indicates that the class routine is
?C: available to classify doubles.  Available for example in AIX.
?C: The returned values are defined in <float.h> and are:
?C:
?C: FP_PLUS_NORM Positive normalized, nonzero
?C: FP_MINUS_NORM Negative normalized, nonzero
?C: FP_PLUS_DENORM Positive denormalized, nonzero
?C: FP_MINUS_DENORM Negative denormalized, nonzero
?C: FP_PLUS_ZERO +0.0
?C: FP_MINUS_ZERO -0.0
?C: FP_PLUS_INF +INF
?C: FP_MINUS_INF -INF
?C: FP_NANS  Signaling
 Not a Number (NaNS)
?C: FP_NANQ  Quiet Not a Number (NaNQ)
?C:.
?H:#$d_class HAS_CLASS  /**/
?H:.
?LINT:set d_class
: see if class exists
set class d_class
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_class.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
```

```
?MAKE:d_setproctitle: Inlibc
?MAKE: -pick add $@ %<
?S:d_setproctitle:
?S: This variable conditionally defines the HAS_SETPROCTITLE symbol,
?S: which indicates to the C program that the setproctitle() routine
?S: is available.
?S:.
?C:HAS_SETPROCTITLE:
?C: This symbol, if defined, indicates that the setproctitle routine is
?C: available to set process title.
?C:.
?H:#$d_setproctitle HAS_SETPROCTITLE  /**/
?H:.
?LINT:set d_setproctitle
: see if setproctitle exists
set setproctitle d_setproctitle
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_setproctitle.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2018-2018, H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_pipe2: Inlibc
?MAKE: -pick add $@ %<
?S:d_pipe2:
?S: This variable conditionally defines the HAS_PIPE2 symbol, which
?S: indicates to the C program that the pipe2() routine is available
?S: to create an inter-process channel.
?S:.
?C:HAS_PIPE2:
?C: This symbol, if defined, indicates that the pipe2 routine is
?C: available to create an inter-process channel.
?C:.
?H:#$d_pipe2 HAS_PIPE2  /**/
?H:.
?LINT:set d_pipe2
: see if pipe2 exists
set pipe2 d_pipe2
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_pipe2.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getitimer: Inlibc
?MAKE: -pick add $@ %<
?S:d_getitimer:
?S: This variable conditionally defines the HAS_GETITIMER symbol, which
?S: indicates to the C program that the getitimer() routine is available.
?S:.
?C:HAS_GETITIMER:
?C: This symbol, if defined, indicates that the getitimer routine is
?C: available to return interval timers.
?C:.
?H:#$d_getitimer HAS_GETITIMER  /**/
?H:.
?LINT:set d_getitimer
: see if getitimer exists
set getitimer d_getitimer
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getitimer.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Chk_whoami.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Chk_whoami.U,v $
?RCS: Revision 3.0  1993/08/18  12:04:46  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?X:
?X: This unit makes sure we don't try to include whoami.h if uname() exists.
?X:
?MAKE:Chk_whoami: d_uname i_whoami
?MAKE: -pick add $@ %<
?LINT:change i_whoami
: weed out incompatibilities
case "$d_uname" in
 "$define") i_whoami="$undef" ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Chk_whoami.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ctermid_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_ctermid_r ctermid_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads extern_C
?MAKE: -pick add $@ %<
?S:d_ctermid_r:
?S: This variable conditionally defines the HAS_CTERMID_R symbol,
?S: which indicates to the C program that the ctermid_r()
?S: routine is available.
?S:.
?S:ctermid_r_proto:
?S: This variable encodes the prototype of ctermid_r.
?S: It is zero if d_ctermid_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_ctermid_r
?S: is defined.
?S:.
?C:HAS_CTERMID_R:
?C: This symbol, if defined, indicates that the ctermid_r routine
?C: is available to ctermid re-entrantly.
?C:.
?C:CTERMID_R_PROTO:
?C: This
 symbol encodes the prototype of ctermid_r.
?C: It is zero if d_ctermid_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_ctermid_r
```

```
?C: is defined.
?C:.
?H:#$d_ctermid_r HAS_CTERMID_R /**/
?H:#define CTERMID_R_PROTO $ctermid_r_proto /**/
?H:.
?T:try hdrs d_ctermid_r_proto
: see if ctermid_r exists
set ctermid_r d_ctermid_r
eval $inlibc
case "$d_ctermid_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h "
 case "$d_ctermid_r_proto:$usethreads" in
 ":define") d_ctermid_r_proto=define
  set d_ctermid_r_proto ctermid_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_ctermid_r_proto" in
 define)
 case "$ctermid_r_proto" in
 "|0) try='char* ctermid_r(char*);'
 ./protochk "$extern_C $try" $hdrs && ctermid_r_proto=B_B ;;
 esac
 case "$ctermid_r_proto" in
 "|0) d_ctermid_r=undef
  ctermid_r_proto=0
  echo "Disabling ctermid_r, cannot determine prototype." >&4 ;;
 * ) case "$ctermid_r_proto" in
  REENTRANT_PROTO*) ;;
  *)
 ctermid_r_proto="REENTRANT_PROTO_$ctermid_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "ctermid_r has no prototype, not using it." >&4 ;;
  esac
  d_ctermid_r=undef
  ctermid_r_proto=0
  ;;
 esac
 ;;
*) ctermid_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_ctermid_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_dbl_dig.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_dbl_dig.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:28  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_dbl_dig: Myread contains cat rm Setvar \
 cppstdin cppflags cppminus
?MAKE: -pick add $@ %<
?S:d_dbl_dig:
?S: This variable conditionally defines d_dbl_dig if this system's
?S: header files provide DBL_DIG, which is the number of significant
?S: digits in a double precision
 number.
?S:.
?C:HAS_DBL_DIG:
?C: This symbol, if defined, indicates that this system's <float.h>
?C: or <limits.h> defines the symbol DBL_DIG, which is the number
?C: of significant digits in a double precision number.  If this
?C: symbol is not defined, a guess of 15 is usually pretty good.
?C:.
?H:#$d_dbl_dig HAS_DBL_DIG /**/
?H:.
?F:!dbl_dig.c
?LINT:set d_dbl_dig
: See if number of significant digits in a double precision number is known
echo " "
$cat >dbl_dig.c <<EOM
#include <limits.h>
#include <float.h>
#ifdef DBL_DIG
printf("Contains DBL_DIG");
#endif
```

```
EOM
$cppstdin $cppflags $cppminus < dbl_dig.c >dbl_dig.E 2>/dev/null
if $contains 'DBL_DIG' dbl_dig.E >/dev/null 2>&1; then
 echo "DBL_DIG found." >&4
 val="$define"
else
 echo "DBL_DIG NOT found." >&4
 val="$undef"
fi
$rm -f dbl_dig.?
set d_dbl_dig
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_dbl_dig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysfile.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysfile.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:11:36  ram
?RCS: patch56: removed <> characters from comment, per metalint suggestion
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:01:23  ram
?RCS: patch6: added default for i_sysfile
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_sysfile: h_sysfile Inhdr Setvar
?MAKE: -pick add $@ %<
?S:i_sysfile:
?S: This variable conditionally defines
 the I_SYS_FILE symbol, and indicates
?S: whether a C program should include <sys/file.h> to get R_OK and friends.
?S:.
?C:I_SYS_FILE (I_SYSFILE):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/file.h> to get definition of R_OK and friends.
```

```
?C:.
?H:#$i_sysfile I_SYS_FILE  /**/
?H:.
?T:val
?D:i_sysfile="
?LINT:change h_sysfile
?LINT:set i_sysfile
: see if this is a sys/file.h system
val="
set sys/file.h val
eval $inhdr

: do we need to include sys/file.h ?
case "$val" in
"$define")
 echo " "
 if $h_sysfile; then
  val="$define"
  echo "We'll be including <sys/file.h>." >&4
 else
  val="$undef"
  echo "We won't be including <sys/file.h>." >&4
 fi
 ;;
*)
 h_sysfile=false
 ;;
esac
set i_sysfile
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sysfile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_dlfcn.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
```

```
?RCS: $Log: i_dlfcn.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:21:53  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:i_dlfcn: Inhdr
?MAKE: -pick add $@ %<
?S:i_dlfcn:
?S: This variable conditionally defines the I_DLFCN symbol, which
?S: indicates to the C program that <dlfcn.h> exists and should
?S: be included.
?S:.
?C:I_DLFCN:
?C: This symbol, if defined, indicates that <dlfcn.h> exists
 and should
?C: be included.
?C:.
?H:#$i_dlfcn I_DLFCN  /**/
?H:.
?LINT:set i_dlfcn
: see if dlfcn is available
set dlfcn.h i_dlfcn
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_dlfcn.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_whoami.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_whoami.U,v $
?RCS: Revision 3.0.1.1  1993/08/25  14:02:21  ram
?RCS: patch6: added default for i_whoami
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_whoami: Inhdr
?MAKE: -pick add $@ %<
?S:i_whoami (d_whoami):
```

```
?S: This variable conditionally defines the I_WHOAMI symbol, which
?S: indicates to the C program that it should include <whoami.h>.
?S:.
?C:I_WHOAMI (WHOAMI):
?C: This symbol,
 if defined, indicates that the program may include
?C: <whoami.h>.
?C:.
?H:#$i_whoami I_WHOAMI /**/
?H:.
?D:i_whoami=''
?LINT:set i_whoami
: see if there is a whoami.h file
set whoami.h i_whoami
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_whoami.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_remquo: Inlibc
?MAKE: -pick add $@ %<
?S:d_remquo:
?S: This variable conditionally defines the HAS_REMQUO symbol, which
?S: indicates to the C program that the remquo() routine is available.
?S:.
?C:HAS_REMQUO:
?C: This symbol, if defined, indicates that the remquo routine is
?C: available to return the remainder and part of quotient.
?C:.
?H:#$d_remquo HAS_REMQUO  /**/
?H:.
?LINT:set d_remquo
: see if remquo exists
set remquo d_remquo
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_remquo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_killpg.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_killpg.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_killpg: Inlibc
?MAKE: -pick add $@ %<
?S:d_killpg:
?S: This variable conditionally defines the HAS_KILLPG symbol, which
?S: indicates to the C program that the killpg() routine is available
?S: to kill process groups.
?S:.
?C:HAS_KILLPG (KILLPG):
?C: This symbol, if defined, indicates that the killpg routine is available
?C: to kill
 process groups.  If unavailable, you probably should use kill
?C: with a negative process number.
?C:.
?H:#$d_killpg HAS_KILLPG /**/
?H:.
?LINT:set d_killpg
: see if killpg exists
set killpg d_killpg
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_killpg.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_volatile.U,v 3.0.1.2 1995/07/25 14:08:49 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_volatile.U,v $
```

```
?RCS: Revision 3.0.1.2  1995/07/25  14:08:49  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0.1.1  1993/09/09  11:49:51  ram
?RCS: patch9: volatile definition was swapped over with undef
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_volatile: cat +cc +ccflags rm_try Setvar
?MAKE: -pick add $@ %<
?S:d_volatile:
?S: This variable conditionally
 defines the HASVOLATILE symbol, which
?S: indicates to the C program that this C compiler knows about the
?S: volatile declaration.
?S:.
?C:HASVOLATILE ~ %<:
?C: This symbol, if defined, indicates that this C compiler knows about
?C: the volatile declaration.
?C:.
?H:?%<:#$d_volatile HASVOLATILE /**/
?H:?%<:#ifndef HASVOLATILE
?H:?%<:#define volatile
?H:?%<:#endif
?H:.
?LINT:set d_volatile
?LINT:known volatile
: check for volatile keyword
echo " "
echo 'Checking to see if your C compiler knows about "volatile"...' >&4
$cat >try.c <<'EOCP'
int main()
{
?X:
?X: The following seven lines added by Bill Campbell <billc@sierra.com>
?X: detect that MIPS compilers do not handle volatile in all situations.
?X:
 typedef struct _goo_struct goo_struct;
 goo_struct * volatile goo = ((goo_struct *)0);
 struct _goo_struct {
  long long_int;
  int reg_int;
  char char_var;
 };
 typedef unsigned short foo_t;
 char *volatile foo;
 volatile int bar;
```

```
 volatile foo_t blech;
 foo = foo;
}
EOCP
if $cc
 -c $ccflags try.c >/dev/null 2>&1 ; then
 val="$define"
 echo "Yup, it does."
else
 val="$undef"
 echo "Nope, it doesn't."
fi
set d_volatile
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_volatile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_time.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit finds which "time" include to use. If 'timezone' is used by the
?X: program, we also try to find which header should be included. Eventually,
?X: we look for <sys/select.h> if I_SYSSELECT is used, to get struct timeval.
?X:
?MAKE:i_time i_systime i_systimek timeincl: cat cc ccflags contains rm_try \
 echo n c +i_sysselct Findhdr
?MAKE: -pick add $@ %<
?S:i_time:
?S: This
 variable conditionally defines I_TIME, which indicates
?S: to the C program that it should include <time.h>.
?S:.
```

```
?S:i_systime:
?S: This variable conditionally defines I_SYS_TIME, which indicates
?S: to the C program that it should include <sys/time.h>.
?S:.
?S:i_systimek:
?S: This variable conditionally defines I_SYS_TIME_KERNEL, which
?S: indicates to the C program that it should include <sys/time.h>
?S: with KERNEL defined.
?S:.
?S:timeincl:
?S: This variable holds the full path of the included time header(s).
?S:.
?C:I_TIME (USE_TIME_H):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <time.h>.
?C:.
?C:I_SYS_TIME (I_SYSTIME USE_SYS_TIME_H NO_TIME_WITH_SYS_TIME):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/time.h>.
?C:.
?C:I_SYS_TIME_KERNEL (I_SYSTIMEKERNEL):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/time.h> with KERNEL defined.
?C:.
?H:#$i_time I_TIME  /**/
?H:#$i_systime
 I_SYS_TIME  /**/
?H:#$i_systimek I_SYS_TIME_KERNEL  /**/
?H:.
?W::timezone
?T:xselect flags sysselect s_timeval s_timezone
?LINT:change i_sysselct
: see if we should include time.h, sys/time.h, or both
echo " "
echo "Testing to see if we should include <time.h>, <sys/time.h> or both." >&4
$echo $n "I'm now running the test program...$c"
$cat >try.c <<'EOCP'
#include <sys/types.h>
#ifdef I_TIME
#include <time.h>
#endif
#ifdef I_SYSTIME
#ifdef SYSTIMEKERNEL
#define KERNEL
#endif
#include <sys/time.h>
#endif
#ifdef I_SYSSELECT
```

```
#include <sys/select.h>
#endif
int main()
{
 struct tm foo;
#ifdef S_TIMEVAL
 struct timeval bar;
#endif
#ifdef S_TIMEZONE
 struct timezone tzp;
#endif
 if (foo.tm_sec == foo.tm_sec)
  exit(0);
#ifdef S_TIMEVAL
 if (bar.tv_sec == bar.tv_sec)
  exit(0);
#endif
 exit(1);
}
EOCP
flags=''
@if I_SYSSELECT
if $contains 'timeval.*{' `./findhdr sys/select.h` >/dev/null 2>&1; then
 xselect='-DI_SYSSELECT'
else
 xselect=''
fi
@end
@if timezone
for s_timezone
 in '-DS_TIMEZONE' ''; do
@else
s_timezone=''
@end
?X: Every package is given a try with 'struct timeval'
@if I_SYSSELECT
for sysselect in $xselect ''; do
@else
sysselect=''
@end
for s_timeval in '-DS_TIMEVAL' ''; do
for i_systimek in '' '-DSYSTIMEKERNEL'; do
for i_time in '' '-DI_TIME'; do
for i_systime in '-DI_SYSTIME' ''; do
 case "$flags" in
 '') $echo $n ".$c"
  if $cc $ccflags \
  $i_time $i_systime $i_systimek $sysselect $s_timeval $s_timezone \
```

```
  -o try try.c >/dev/null 2>&1 ; then
   set X $i_time $i_systime $i_systimek $sysselect $s_timeval
   shift
   flags="$*"
   echo " "
   $echo $n "Succeeded with $flags$c"
  fi
  ;;
 esac
done
done
done
done
@if I_SYSSELECT
done
@end
@if timezone
done
@end
timeincl="
echo " "
case "$flags" in
*SYSTIMEKERNEL*) i_systimek="$define"
 timeincl=`./findhdr sys/time.h`
 echo "We'll include <sys/time.h> with KERNEL defined." >&4;;
*) i_systimek="$undef";;
esac
case "$flags" in
*I_TIME*) i_time="$define"
 timeincl=`./findhdr time.h`" $timeincl"
 echo
 "We'll include <time.h>." >&4;;
*) i_time="$undef";;
esac
case "$flags" in
*I_SYSTIME*) i_systime="$define"
 timeincl=`./findhdr sys/time.h`" $timeincl"
 echo "We'll include <sys/time.h>." >&4;;
*) i_systime="$undef";;
esac
@if I_SYSSELECT
case "$flags" in
*I_SYSSELECT*) i_sysselct="$define"
 timeincl=`./findhdr sys/select.h`" $timeincl"
 echo "We'll also include <sys/select.h> to get struct timeval." >&4;;
*) case "$i_sysselct" in
 ") i_sysselct="$undef";;
 esac
```

```
esac
@end
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_time.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: scandir.C,v 3.0.1.1 1994/01/24 13:58:45 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* $Log: scandir.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:45  ram
* patch16: created
*
*/
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/scandir.C
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_float.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_float.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:21:57  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:i_float: Inhdr
```

```
?MAKE: -pick add $@ %<
?S:i_float:
?S: This variable conditionally defines the I_FLOAT symbol, and indicates
?S: whether a C program may include <float.h> to get symbols like DBL_MAX
?S: or DBL_MIN, i.e. machine dependent floating point values.
?S:.
?C:I_FLOAT:
?C: This
 symbol, if defined, indicates to the C program that it should
?C: include <float.h> to get definition of symbols like DBL_MAX or
?C: DBL_MIN, i.e. machine dependent floating point values.
?C:.
?H:#$i_float I_FLOAT  /**/
?H:.
?LINT:set i_float
: see if this is a float.h system
set float.h i_float
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_float.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_safebcpy.U,v 3.0.1.4 1997/02/28 15:40:58 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_safebcpy.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  15:40:58  ram
?RCS: patch61: improved overlapping copy check
?RCS: patch61: comfort them if they have memmove
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.3  1995/07/25  13:58:40  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.2  1995/01/11  15:29:23  ram
?RCS: patch45: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS:
```

```
 Revision 3.0.1.1  1994/05/06  14:49:03  ram
?RCS: patch23: ensure string is not optimized in read-only memory (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_safebcpy: cat d_bcopy Compile rm_try run \
 d_memmove i_memory i_stdlib i_string i_unistd Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_safebcpy:
?S: This variable conditionally defines the HAS_SAFE_BCOPY symbol if
?S: the bcopy() routine can do overlapping copies.  Normally, you
?S: should probably use memmove().
?S:.
?C:HAS_SAFE_BCOPY (SAFE_BCOPY):
?C: This symbol, if defined, indicates that the bcopy routine is available
?C: to copy potentially overlapping memory blocks. Normally, you should
?C: probably use memmove() or memcpy(). If neither is defined, roll your
?C: own version.
?C:.
?H:#$d_safebcpy HAS_SAFE_BCOPY /**/
?H:.
?F:!try
?LINT: set d_safebcpy
: can bcopy handle overlapping blocks?
echo " "
?X: assume the worst.
val="$undef"
case "$d_memmove" in
"$define")
 echo "I'll use memmove() instead of bcopy() for overlapping copies." ;;
*) case "$d_bcopy" in
 "$define")
  echo "Checking to see if bcopy() can do overlapping copies..." >&4
  $cat >try.c <<EOCP
#$i_memory I_MEMORY
#$i_stdlib I_STDLIB
#$i_string I_STRING
#$i_unistd I_UNISTD
EOCP
 $cat >>try.c <<'EOCP'
#include <stdio.h>
#ifdef I_MEMORY
#  include <memory.h>
#endif
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
```

```
#ifdef I_STRING
#  include <string.h>
#else
#  include <strings.h>
#endif
#ifdef I_UNISTD
#  include <unistd.h>  /* Needed for NetBSD */
#endif
int main()
{
char buf[128], abc[128];
char *b;
int len;
int off;
int align;

/* Copy "abcde..." string to char abc[] so that gcc doesn't
  try to store the string in read-only memory. */
bcopy("abcdefghijklmnopqrstuvwxyz0123456789", abc, 36);

for (align = 7; align >= 0; align--) {
 for (len = 36; len; len--) {
  b = buf+align;
  bcopy(abc, b, len);
  for (off = 1; off <= len; off++) {
   bcopy(b, b+off, len);
   bcopy(b+off,
 b, len);
   if (bcmp(b, abc, len))
    exit(1);
  }
 }
}
exit(0);
}
EOCP
  set try
  if eval $compile_ok; then
   if $run ./try 2>/dev/null; then
    echo "Yes, it can."
    val="$define"
   else
    echo "It can't, sorry."
   fi
  else
   echo "(I can't compile the test program, so we'll assume not...)"
  fi
  ;;
```

```
 esac
 $rm_try
 ;;
esac
set d_safebcpy
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_safebcpy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pathconf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_pathconf.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:14:54  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_pathconf d_fpathconf: Inlibc
?MAKE: -pick add $@ %<
?S:d_pathconf:
?S: This variable conditionally defines the HAS_PATHCONF symbol, which
?S: indicates to the C program that the pathconf() routine is available
?S: to determine file-system related limits and options
 associated
?S: with a given filename.
?S:.
?S:d_fpathconf:
?S: This variable conditionally defines the HAS_FPATHCONF symbol, which
?S: indicates to the C program that the pathconf() routine is available
?S: to determine file-system related limits and options associated
?S: with a given open file descriptor.
?S:.
?C:HAS_PATHCONF:
?C: This symbol, if defined, indicates that pathconf() is available
?C: to determine file-system related limits and options associated
?C: with a given filename.
?C:.
```

```
?C:HAS_FPATHCONF:
?C: This symbol, if defined, indicates that pathconf() is available
?C: to determine file-system related limits and options associated
?C: with a given open file descriptor.
?C:.
?H:#$d_pathconf HAS_PATHCONF  /**/
?H:#$d_fpathconf HAS_FPATHCONF  /**/
?H:.
?LINT:set d_pathconf
?LINT:set d_fpathconf
: see if pathconf exists
set pathconf d_pathconf
eval $inlibc

@if d_fpathconf || HAS_FPATHCONF
: see if fpathconf exists
set fpathconf d_fpathconf
eval $inlibc

@end
```

Found in path(s):
*
/opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_pathconf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_lchown.U,v 3.0.1.1 1994/08/29 16:07:14 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_lchown.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:14  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_lchown: Compile Setvar cat echo i_unistd rm_try
?MAKE: -pick add $@ %<
?S:d_lchown:
?S: This variable conditionally defines the HAS_LCHOWN symbol, which
?S: indicates to the C program that the lchown() routine is available
```

```
?S: to operate on a symbolic link (instead of following
 the link).
?S:.
?C:HAS_LCHOWN :
?C: This symbol, if defined, indicates that the lchown routine is
?C: available to operate on a symbolic link (instead of following the
?C: link).
?C:.
?H:#$d_lchown HAS_LCHOWN  /**/
?H:.
?F:!try
?LINT:set d_lchown
: see if lchown exists
echo " "
?X: Some functions (such as lchown()) are present in libc, but are
?X: unimplemented.  That is, they always fail and set errno=ENOSYS.
?X:
?X: Thomas Bushnell provided the following sample code and the explanation
?X: that follows.
?X:
?X: The choice of <assert.h> is essentially arbitrary.  The GNU libc
?X: macros are found in <gnu/stubs.h>.  You can include that file instead
?X: of <assert.h> (which itself includes <gnu/stubs.h>) if you test for
?X: its existence first.  <assert.h> is assumed to exist on every system,
?X: which is why it's used here.  Any GNU libc header file will include
?X: the stubs macros.  If either __stub_NAME or __stub___NAME is defined,
?X: then the function doesn't actually exist.
  Tests using <assert.h> work
?X: on every system around.
?X:
?X: The declaration of FOO is there to override builtin prototypes for
?X: ANSI C functions.
?X:
?X:  I really ought to enhance the inlibc test to check for this, but
?X:  I don't have time now.  --A.D.  5/1998
?X:
?X: Unfortunately, this trick fails under clang++-7.  Apparently to
?X: cover both the stub issue and clang's requirements, we need to do
?X: a compile and run test. -- A.D. 8/2019
?X:
$cat > try.c <<EOCP
#include <pwd.h>
#include <stdio.h>
#include <stdlib.h>
#$i_unistd I_UNISTD
#ifdef I_UNISTD
#  include <unistd.h>
#endif
```

```
int main(int argc, char *argv[])
{
  if (lchown("./try.c", -1, getgid()) == -1) {
      exit(EXIT_FAILURE);
  }
  exit(EXIT_SUCCESS);
}
EOCP
set try
if eval $compile && ./try; then
   $echo "lchown() found." >&4
   val="$define"
else
   $echo "lchown() NOT found." >&4
   val="$undef"
fi
set d_lchown
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_lchown.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_faststdio: Setvar \
 d_stdstdio d_stdio_ptr_lval d_stdio_cnt_lval d_stdio_ptr_lval_sets_cnt
?MAKE: -pick add $@ %<
?S:d_faststdio:
?S: This variable conditionally defines the HAS_FAST_STDIO symbol,
?S: which indicates to the C program that the "fast stdio" is available
?S: to manipulate the stdio buffers directly.
?S:.
?C:HAS_FAST_STDIO:
?C: This symbol, if defined, indicates that the "fast stdio"
?C: is available to manipulate the stdio buffers directly.
?C:.
?H:#$d_faststdio HAS_FAST_STDIO  /**/
?H:.
?LINT:set d_faststdio
: see if fast_stdio exists
```

```
val="$undef"
case "$d_stdstdio:$d_stdio_ptr_lval" in
"$define:$define")
 case "$d_stdio_cnt_lval$d_stdio_ptr_lval_sets_cnt" in
 *$define*)
  echo "You
 seem to have 'fast stdio' to directly manipulate the stdio buffers." >& 4
  val="$define"
  ;;
 esac
 ;;
esac
set d_faststdio
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_faststdio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2016-2016, H.Merijn Brand
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?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_gai_strerror: Compile cat rm_try run Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_gai_strerror:
?S: This variable conditionally defines the HAS_GAI_STRERROR symbol
?S: if the gai_strerror() routine is available and can be used to
?S: translate error codes returned by getaddrinfo() into human
?S: readable strings.
?S:.
?C:HAS_GAI_STRERROR:
?C: This symbol, if defined, indicates that the gai_strerror routine
?C: is available to translate error codes returned by getaddrinfo()
?C: into human readable strings.
?C:.
?H:#$d_gai_strerror
 HAS_GAI_STRERROR /**/
?H:.
?F:!try
?LINT: set d_gai_strerror
: look for gai_strerror
echo " "
```

```
$cat >try.c <<'EOCP'
#include <sys/types.h>
#include <sys/socket.h>
#include <netdb.h>
int main ()
{
   return (gai_strerror (0) ? 0 : 1);
   }
EOCP
set try
?X: if $cc $ccflags $ldflags -o try try.c $libs >/dev/null 2>&1 ; then
val="$undef"
if eval $compile; then
   `$run ./try`
   case "$?" in
 0)  echo "A working gai_strerror() found." >&4
     val="$define" ;;
 *)  echo "gai_strerror() found, but it doesn't work" >&4
     ;;
 esac
else
   echo "gai_strerror() NOT found." >&4
   fi
set d_gai_strerror
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_gai_strerror.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethostent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_gethostent_r gethostent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_gethostent_r:
?S: This variable conditionally defines the HAS_GETHOSTENT_R symbol,
?S: which indicates to the C program that the gethostent_r()
?S: routine is available.
?S:.
```

```
?S:gethostent_r_proto:
?S: This variable encodes the prototype of gethostent_r.
?S: It is zero if d_gethostent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gethostent_r
?S: is defined.
?S:.
?C:HAS_GETHOSTENT_R:
?C: This symbol, if defined, indicates that the gethostent_r routine
?C: is
 available to gethostent re-entrantly.
?C:.
?C:GETHOSTENT_R_PROTO:
?C: This symbol encodes the prototype of gethostent_r.
?C: It is zero if d_gethostent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gethostent_r
?C: is defined.
?C:.
?H:#$d_gethostent_r HAS_GETHOSTENT_R /**/
?H:#define GETHOSTENT_R_PROTO $gethostent_r_proto /**/
?H:.
?T:try hdrs d_gethostent_r_proto
: see if gethostent_r exists
set gethostent_r d_gethostent_r
eval $inlibc
case "$d_gethostent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_gethostent_r_proto:$usethreads" in
 ":define") d_gethostent_r_proto=define
  set d_gethostent_r_proto gethostent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_gethostent_r_proto" in
 define)
 case "$gethostent_r_proto" in
 "|0) try='int gethostent_r(struct hostent*, char*, size_t, struct hostent**, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostent_r_proto=I_SBWRE ;;
 esac
 case "$gethostent_r_proto"
 in
 "|0) try='int gethostent_r(struct hostent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostent_r_proto=I_SBIE ;;
 esac
 case "$gethostent_r_proto" in
 "|0) try='struct hostent* gethostent_r(struct hostent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostent_r_proto=S_SBIE ;;
 esac
```

```
 case "$gethostent_r_proto" in
 "|0) try='struct hostent* gethostent_r(struct hostent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && gethostent_r_proto=S_SBI ;;
 esac
 case "$gethostent_r_proto" in
 "|0) try='int gethostent_r(struct hostent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && gethostent_r_proto=I_SBI ;;
 esac
 case "$gethostent_r_proto" in
 "|0) try='int gethostent_r(struct hostent*, struct hostent_data*);'
 ./protochk "$extern_C $try" $hdrs && gethostent_r_proto=I_SD ;;
 esac
 case "$gethostent_r_proto" in
 "|0) d_gethostent_r=undef
  gethostent_r_proto=0
  echo "Disabling gethostent_r, cannot determine prototype." >&4 ;;
 * ) case
 "$gethostent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) gethostent_r_proto="REENTRANT_PROTO_$gethostent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "gethostent_r has no prototype, not using it." >&4 ;;
  esac
  d_gethostent_r=undef
  gethostent_r_proto=0
  ;;
 esac
 ;;
*) gethostent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_gethostent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_signbit: nvtype Compile Setvar cat run rm_try echo n c i_sunmath
?MAKE: -pick add $@ %<
```

```
?S:d_signbit:
?S: This variable conditionally defines the HAS_SIGNBIT symbol, which
?S: indicates to the C program that the signbit() routine is available
?S: and safe to use with perl's intern NV type.
?S:.
?C:HAS_SIGNBIT:
?C: This symbol, if defined, indicates that the signbit routine is
?C: available to check if the given number has the sign bit set.
?C: This should include correct testing of -0.0.  This will only be set
?C: if the signbit() routine is safe to use with the NV type used internally
?C: in perl.  Users should call Perl_signbit(), which will be #defined to
?C: the system's signbit() function or macro if this symbol is defined.
?C:.
?H:#$d_signbit
 HAS_SIGNBIT  /**/
?H:.
?F:!try
?LINT:set d_signbit
: see if signbit exists
$echo $n "Checking to see if you have signbit() available to work on $nvtype... $c" >&4
$cat >try.c <<EOCP
#$i_sunmath I_SUNMATH
#include <math.h>
#ifdef I_SUNMATH  /* Solaris special math library */
#  include <sunmath.h>
#endif
#define NV $nvtype
int main(int argc, char **argv)
{
   NV x = 0.0;
   NV y = -1.0;
   if ((signbit(x) == 0) && (signbit(y) != 0))
 return 0;
   else
 return 1;
}
EOCP
val="$undef"
set try
if eval $compile; then
   if $run ./try; then
       $echo "Yes." >&4
 val="$define"
   else
       $echo "Signbit seems to be available, but doesn't work as I expected."
       $echo "I won't use it." >&4
 val="$undef"
   fi
```

```
else
   $echo "Nope." >&4
   dflt="$undef"
fi
set d_signbit
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_signbit.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_ualarm: Inlibc
?MAKE: -pick add $@ %<
?S:d_ualarm:
?S: This variable conditionally defines the HAS_UALARM symbol, which
?S: indicates to the C program that the ualarm() routine is available.
?S:.
?C:HAS_UALARM:
?C: This symbol, if defined, indicates that the ualarm routine is
?C: available to do alarms with microsecond granularity.
?C:.
?H:#$d_ualarm HAS_UALARM  /**/
?H:.
?LINT:set d_ualarm
: see if ualarm exists
set ualarm d_ualarm
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_ualarm.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_fegetround: Inlibc
?MAKE: -pick add $@ %<
?S:d_fegetround:
```

```
?S: This variable conditionally defines HAS_FEGETROUND if fegetround() is
?S: available to get the floating point rounding mode.
?S:.
?C:HAS_FEGETROUND:
?C: This symbol, if defined, indicates that the fegetround routine is
?C: available to return the macro corresponding to the current rounding
?C: mode.
?C:.
?H:#$d_fegetround HAS_FEGETROUND /**/
?H:.
?LINT:set d_fegetround
: see if fegetround exists
set fegetround d_fegetround
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fegetround.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: charorder.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:07:08  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:33  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:chorder_int chorder_short chorder_long: Myread cat +cc +ccflags rm
?MAKE: -pick add $@ %<
?S:chorder_short (d_cos d_bos):
?S: Holds the value describing the byte ordering of characters in a short.
?S: On a Big-Endian machine, that would be "c0c1".
?S:.
?S:chorder_int
 (charoder):
?S: Holds the value describing the byte ordering of characters in an int.
?S: For instance, on a Big-Endian machine, this would be: "c0c1c2c3".
?S:.
```

```
?S:chorder_long (d_col d_bol):
?S: Holds the value describing the byte ordering of characters in a long.
?S: On a 64 bits Big-Endian machine, that would yield: "c0c1c2c3c4c5c6c7".
?S:.
?C:CHAR_ORDER_SHORT:
?C: Holds the byte ordering of characters in a short. It's a string
?C: value like "c0c1" on a Big-Endian machine.
?C:.
?C:CHAR_ORDER_INT:
?C: Holds the byte ordering of characters in an int. It's a string
?C: value like "c0c1c2c3" on a Big-Endian machine.
?C:.
?C:CHAR_ORDER_LONG:
?C: Holds the byte ordering of characters in a long. It's a string
?C: value like "c0c1c2c3c4c5c6c7" on a 64 bits Big-Endian machine.
?C:.
?H:#define CHAR_ORDER_SHORT "$chorder_short" /* byte order in a short */
?H:#define CHAR_ORDER_INT "$chorder_int" /* byte order in an int */
?H:#define CHAR_ORDER_LONG "$chorder_long" /* byte order in a long */
?H:.
?F:!byteorder
:
 check for character ordering
echo " "
echo "Checking out byte order..." >&4
$cat >byteorder.c <<'EOCP'
#include <stdio.h>

main(argc, argv)
 int argc;
 char *argv[]; {
 int i;
 int max;
 union {
  short u_s;
  int u_i;
  long u_l;
  char u_c[sizeof(long)];
 } u;
 switch (argv[1][0]) {
 case 'l':
  u.u_l = 0L;
  /* HMS: ASSERT: sizeof(long) < 10. */
  for(i = 0; i < sizeof(long); ++i) {
   u.u_l *= 0x100L;
   u.u_l += (0xc0 + i);
  }
  max = sizeof(long);
```

```
  break;
 case 's':
  u.u_s = 0;
  /* HMS: ASSERT: sizeof(short) < 10. */
  for(i = 0; i < sizeof(short); ++i) {
   u.u_s *= 0x100L;
   u.u_s += (0xc0 + i);
  }
  max = sizeof(short);
  break;
 case 'i':
  u.u_i = 0;
  /* RAM: ASSERT: sizeof(int) < 10. */
  for(i = 0; i < sizeof(int); ++i) {
   u.u_l *= 0x100L;
   u.u_l += (0xc0 + i);
  }
  max = sizeof(int);
  break;
 default:
  max = 0;
  break;
 }
 for(i = 0; i < max; i++) {
  printf("%x", u.u_c[i] & 0x00FF);
 }
 printf("\n");
 exit(0);
}
EOCP
if $cc $ccflags -o
 byteorder byteorder.c >/dev/null 2>&1 ; then
 : null statement
@if chorder_short
   chorder_short=`./byteorder s`
@end
@if chorder_int
   chorder_int=`./byteorder i`
@end
@if chorder_long
   chorder_long=`./byteorder l`
@end
else
 $cat <<EOM
(I can't seem to get my test program to work.  Guessing 32 bits big-endian.)
EOM
   chorder_short="c0c1"
   chorder_int="c0c1c2c3"
```

```
   chorder_long="c0c1c2c3"
fi
@if chorder_short
dflt=$chorder_short
rp='What is the order of characters in a short?'
. ./myread
chorder_short="$ans"
@end
@if chorder_int
dflt=$chorder_int
rp='What is the order of characters in an int?'
. ./myread
chorder_int="$ans"
@end
@if chorder_long
dflt=$chorder_long
rp='What is the order of characters in a long?'
. ./myread
chorder_long="$ans"
@end
$rm -f byteorder* core
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/charorder.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_shmget.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_shmget.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:20  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_shmget: Inlibc
?MAKE: -pick add $@ %<
?S:d_shmget:
?S: This variable conditionally defines the HAS_SHMGET symbol, which
?S: indicates to the C program that the shmget() routine is available.
?S:.
?C:HAS_SHMGET:
```

```
?C: This symbol, if defined, indicates that the shmget() routine is
?C: available to request a shared memory segment from
 the kernel.
?C:.
?H:#$d_shmget HAS_SHMGET  /**/
?H:.
?LINT:set d_shmget
: see if shmget exists
set shmget d_shmget
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_shmget.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getppid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_getppid.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:45  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_getppid: Inlibc
?MAKE: -pick add $@ %<
?S:d_getppid:
?S: This variable conditionally defines the HAS_GETPPID symbol, which
?S: indicates to the C program that the getppid() routine is available
?S: to get the parent process ID.
?S:.
?C:HAS_GETPPID :
?C: This symbol,
 if defined, indicates that the getppid routine is
?C: available to get the parent process ID.
?C:.
?H:#$d_getppid HAS_GETPPID  /**/
?H:.
?LINT:set d_getppid
: see if getppid exists
```

```
set getppid d_getppid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getppid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_access.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_access: test +cc cat +cppflags h_fcntl h_sysfile rm Inlibc Findhdr
?MAKE: -pick add $@ %<
?S:d_access:
?S: This variable conditionally defines HAS_ACCESS if the access() system
?S: call is available to check for access permissions using real IDs.
?S:.
?C:HAS_ACCESS:
?C: This manifest constant lets the C program know that the access()
?C: system call is available to check for accessibility
 using real UID/GID.
?C: (always present on UNIX.)
?C:.
?H:#$d_access HAS_ACCESS  /**/
?H:.
?W:%<:R_OK W_OK X_OK F_OK
?LINT:set d_access
?LINT:change h_fcntl h_sysfile
: access call always available on UNIX
set access d_access
eval $inlibc

: locate the flags for 'access()'
case "$d_access" in
"$define")
 echo " "
 $cat >access.c <<'EOCP'
```

```
#include <sys/types.h>
#ifdef I_FCNTL
#include <fcntl.h>
#endif
#ifdef I_SYS_FILE
#include <sys/file.h>
#endif
#ifdef I_UNISTD
#include <unistd.h>
#endif
int main() {
 exit(R_OK);
}
EOCP
 : check sys/file.h first, no particular reason here
 if $test `./findhdr sys/file.h` && \
  $cc -o access $cppflags -DI_SYS_FILE access.c >/dev/null 2>&1 ; then
  h_sysfile=true;
  echo "<sys/file.h> defines the *_OK access constants." >&4
 elif $test `./findhdr fcntl.h` && \
  $cc -o access $cppflags -DI_FCNTL access.c >/dev/null 2>&1 ; then
  h_fcntl=true;
  echo "<fcntl.h> defines the *_OK access constants." >&4
@if I_UNISTD
 elif $test `./findhdr unistd.h`
 && \
  $cc -o access $cppflags -DI_UNISTD access.c >/dev/null 2>&1 ; then
  echo "<unistd.h> defines the *_OK access constants." >&4
@end
 else
  echo "I can't find the four *_OK access constants--I'll use mine." >&4
 fi
 ;;
esac
$rm -f access*
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_access.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_malloc.U,v 3.5 2008/03/29 14:06:51 merijn Exp $
?RCS:
?RCS: Copyright (c) 2008, H.Merijn Brand
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```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.5.
?RCS:
?MAKE:i_mallocmalloc: Inhdr
?MAKE: -pick add $@ %<
?S:i_mallocmalloc:
?S: This variable conditionally defines the I_MALLOCMALLOC symbol,
?S: and indicates whether a C program should include <malloc/malloc.h>.
?S:.
?C:I_MALLOCMALLOC:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <malloc/malloc.h>.
?C:.
?H:#$i_mallocmalloc I_MALLOCMALLOC  /**/
?H:.
?LINT:set i_mallocmalloc
: see if malloc/malloc.h has to be included
set malloc/malloc.h i_mallocmalloc
eval
 $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_mallocmalloc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: registers.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: registers.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:19:41  ram
?RCS: patch61: removed empty ?LINT lines
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:28:33  ram
?RCS: patch36: call ./Cppsym explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:41  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:registers reg1 reg2 reg3 reg4 reg5 reg6 reg7 reg8 reg9 reg10 reg11 \
 reg12 reg13 reg14 reg15 reg16: awk rm Cppsym
```

```
 Myread Oldconfig
?MAKE: -pick add $@ %<
?S:registers:
?S: This variable contains the number of register declarations paid
?S: attention to by the C compiler.
?S:.
?S:reg1:
?S: This variable, along with reg2, reg3, etc. contains the eventual
?S: value for the symbols register1, register2, register3, etc.  It has
?S: either the value "register" or is null.
?S:.
?C:register1:
?C: This symbol, along with register2, register3, etc. is either the word
?C: "register" or null, depending on whether the C compiler pays attention
?C: to this many register declarations.  The intent is that you don't have
?C: to order your register declarations in the order of importance, so you
?C: can freely declare register variables in sub-blocks of code and as
?C: function parameters.  Do not use register<n> more than once per routine.
?C:.
?LINT:describe reg2 reg3 reg4 reg5 reg6 reg7 reg8 reg9 reg10 reg11
?LINT:describe reg12 reg13 reg14 reg15 reg16
?LINT:known register2 register3 register4 register5 register6
 register7
?LINT:known register8 register9 register10 register11 register12 register13
?LINT:known register14 register15 register16
?H:#define register1 $reg1  /**/
?H:#define register2 $reg2  /**/
?H:#define register3 $reg3  /**/
?H:#define register4 $reg4  /**/
?H:#define register5 $reg5  /**/
?H:#define register6 $reg6  /**/
?H:#define register7 $reg7  /**/
?H:#define register8 $reg8  /**/
?H:#define register9 $reg9  /**/
?H:#define register10 $reg10 /**/
?H:#define register11 $reg11 /**/
?H:#define register12 $reg12 /**/
?H:#define register13 $reg13 /**/
?H:#define register14 $reg14 /**/
?H:#define register15 $reg15 /**/
?H:#define register16 $reg16 /**/
?H:.
?F:!.foo
: see how many register declarations we want to use
case "$registers" in
")
 if ./Cppsym vax; then
  dflt=6
```

```
 elif ./Cppsym sun mc68000 mips; then
  dflt=10
 elif ./Cppsym pyr; then
  dflt=14
 elif ./Cppsym ns32000 ns16000; then
  dflt=5
 elif ./Cppsym $smallmach; then
  dflt=3
 else
  : if you have any other numbers
 for me, please send them in
  dflt=6
 fi;;
*) dflt=$registers ;;
esac
?LINT:set reg2 reg3 reg4 reg5 reg6 reg7 reg8 reg9 reg10 reg11
?LINT:set reg12 reg13 reg14 reg15 reg16
cat <<EOM

Different C compilers on different machines pay attention to different numbers
of register declarations.  About how many register declarations in each routine
does your C compiler pay attention to?  (OK to guess)

EOM
rp="Maximum register declarations?"
. ./myread
registers=$ans
reg1="
$awk "BEGIN { for (i=1; i<=16; i++) printf \"reg%d="\n\", i}" \
 </dev/null >.foo
. ./.foo
$awk "BEGIN { for (i=1; i<=$registers; i++) printf \"reg%d=register\n\", i}" \
 </dev/null >.foo
. ./.foo
$rm -f .foo

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-
5.34.0/dist/U/registers.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_itimer.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_itimer.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:25  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_itimer: Inlibc
?MAKE: -pick add $@ %<
?S:d_itimer:
?S: This variable conditionally defines the HAS_ITIMER symbol, which
?S: indicates that the setitimer() routine exists.  The setitimer()
?S: routine supports sub-second accuracy for one real-time and two
?S: cpu clocks.
?S:.
?C:HAS_ITIMER (ITIMER):
?C: This symbol, if defined, indicates
 that the setitimer() routine exists.
?C:.
?H:#$d_itimer HAS_ITIMER /**/
?H:.
?LINT:set d_itimer
: see if setitimer exists
set setitimer d_itimer
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_itimer.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getpwent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getpwent: Csym Setvar
?MAKE: -pick add $@ %<
?S:d_getpwent:
```

```
?S: This variable conditionally defines the HAS_GETPWENT symbol, which
?S: indicates to the C program that it should use the getpwent()
?S: routine instead of the getpw() routine.
?S:.
?C:HAS_GETPWENT (GETPWENT):
?C: This symbol, if defined, indicates that the getpwent() routine
?C: should be used instead of the getpw()
 routine.
?C:.
?H:#$d_getpwent HAS_GETPWENT /**/
?H:.
?LINT:set d_getpwent
: see if there is a getpwent
echo " "
if set getpwent val -f d_getpwent; eval $csym; $val; then
 echo "getpwent() found." >&4
 val="$define"
else
 echo "No getpwent() found -- will use getpw() instead." >&4
 val="$undef"
fi
set d_getpwent
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getpwent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: Original author Jarkko Hietaniemi <jhi@iki.fi>
?RCS: Merged into dist by Andy Dougherty  July 13, 1998
?RCS:
?MAKE:ebcdic: Compile Setvar cat rm_try run
?MAKE: -pick add $@ %<
?S:ebcdic:
?S: This variable conditionally defines EBCDIC if this
```

```
?S: system uses EBCDIC encoding.  Among other things, this
?S: means that the character ranges are not contiguous.
?S: See trnl.U
?S:.
?C:EBCDIC:
?C:     This symbol, if defined, indicates that this system uses
?C: EBCDIC
 encoding.
?C:.
?H:#$ebcdic EBCDIC   /**/
?H:.
?F:!try
?LINT:set ebcdic
: look whether system uses EBCDIC
echo " "
echo "Determining whether or not we are on an EBCDIC system..." >&4
$cat >try.c <<'EOM'
int main()
{
 if ('M'==0xd4) return 0;
 return 1;
}
EOM
val=$undef
set try
if eval $compile_ok; then
 if $run ./try; then
  echo "You seem to speak EBCDIC." >&4
  val="$define"
 else
  echo "Nope, no EBCDIC, probably ASCII or some ISO Latin. Or UTF-8." >&4
 fi
else
 echo "I'm unable to compile the test program." >&4
 echo "I'll assume ASCII or some ISO Latin. Or UTF8." >&4
fi
$rm_try
set ebcdic
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/ebcdic.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Rcs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Rcs.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This is a unit that helps people who write SH scripts and keep them under
?X: RCS, but don't think to protect the $Log and other $Id keywords from
?X: variable substitution (or people like me who do not like to).
?X:
?MAKE:Author Date Header Id Locker Log RCSfile Revision Source State: Oldconfig
?MAKE: -pick weed $@ %<
?LINT:describe Author
 Date Header Id Locker Log RCSfile Revision Source State
: preserve RCS keywords in files with variable substitution, grrr
?Author:Author='$Author'
?Date:Date='$Date'
?Header:Header='$Header'
?Id:Id='$Id'
?$Locker'
?Log:Log='$Log'
?RCSfile:RCSfile='$RCSfile'
?Revision:Revision='$Revision'
?Source:Source='$Source'
?State:State='$State'
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Rcs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getsrvby.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getsbyname d_getsbyport: Inlibc
?MAKE: -pick add $@ %<
?S:d_getsbyname:
?S: This variable conditionally defines the HAS_GETSERVBYNAME
```

```
?S: symbol, which indicates to the C program that the
?S: getservbyname() routine is available to look up services
?S: by their name.
?S:.
?S:d_getsbyport:
?S: This variable conditionally defines the HAS_GETSERVBYPORT
?S: symbol, which indicates to the C program that the
?S: getservbyport() routine is available to look up services
?S: by their port.
?S:.
?C:HAS_GETSERVBYNAME:
?C: This symbol, if defined, indicates that the getservbyname()
?C: routine is available to look up services by their name.
?C:.
?C:HAS_GETSERVBYPORT:
?C: This symbol, if defined,
 indicates that the getservbyport()
?C: routine is available to look up services by their port.
?C:.
?H:#$d_getsbyname HAS_GETSERVBYNAME  /**/
?H:#$d_getsbyport HAS_GETSERVBYPORT  /**/
?H:.
?LINT:set d_getsbyname d_getsbyport
: Optional checks for getsbyname and getsbyport

@if d_getsbyname || HAS_GETSERVBYNAME
: see if getservbyname exists
set getservbyname d_getsbyname
eval $inlibc
@end

@if d_getsbyport || HAS_GETSERVBYPORT
: see if getservbyport exists
set getservbyport d_getsbyport
eval $inlibc
@end
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_getsrvby.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: pkgsrc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:pkgsrc: src rsrc
?MAKE: -pick add $@ %<
?S:pkgsrc:
?S: This variable holds the absolute path of the package source.
?S:.
?C:PACKAGE_SOURCE_DIR:
?C: Holds the directory name holding the package source.
?C:.
?H:#define PACKAGE_SOURCE_DIR "$pkgsrc"
?H:.
: define absolute package source directory
case "$src" in
/*) pkgsrc=$src;;
*) pkgsrc=`cd $rsrc; pwd`;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/pkgsrc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_nanosleep: Inlibc
?MAKE: -pick add $@ %<
?S:d_nanosleep:
?S: This variable conditionally defines HAS_NANOSLEEP
?S: if nanosleep() is available to sleep with 1E-9 sec accuracy.
?S:.
?C:HAS_NANOSLEEP:
?C: This symbol, if defined, indicates that the nanosleep
?C: system call is available to sleep with 1E-9 sec accuracy.
?C:.
?H:#$d_nanosleep HAS_NANOSLEEP  /**/
?H:.
?LINT:set d_nanosleep
```

```
: see if nanosleep exists
set nanosleep d_nanosleep
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_nanosleep.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_drand48proto: Hasproto i_stdlib i_unistd
?MAKE: -pick add $@ %<
?S:d_drand48proto:
?S: This variable conditionally defines the HAS_DRAND48_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the drand48() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_DRAND48_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the drand48() function.  Otherwise, it is up
?C: to the program to supply one.  A good guess
 is
?C:  extern double drand48(void);
?C:.
?H:#$d_drand48proto HAS_DRAND48_PROTO /**/
?H:.
?LINT:set d_drand48proto
: see if prototype for drand48 is available
echo " "
set d_drand48proto drand48 $i_stdlib stdlib.h $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/d_drand48proto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_ldbl_dig: Myread contains cat rm Setvar \
 cppstdin cppflags cppminus
?MAKE: -pick add $@ %<
?S:d_ldbl_dig:
?S: This variable conditionally defines d_ldbl_dig if this system's
?S: header files provide LDBL_DIG, which is the number of significant
?S: digits in a long double precision number.
?S:.
?C:HAS_LDBL_DIG:
?C: This symbol, if defined, indicates that this system's <float.h>
?C: or <limits.h> defines the symbol LDBL_DIG, which is the number
?C: of significant digits in a long double precision number. Unlike
?C: for
 DBL_DIG, there's no good guess for LDBL_DIG if it is undefined.
?C:.
?H:#$d_ldbl_dig HAS_LDBL_DIG /* */
?H:.
?F:!ldbl_dig.c
?LINT:set d_ldbl_dig
: See if number of significant digits in a double precision number is known
echo " "
$cat >ldbl_dig.c <<EOM
#include <limits.h>
#include <float.h>
#ifdef LDBL_DIG
printf("Contains LDBL_DIG");
#endif
EOM
$cppstdin $cppflags $cppminus < ldbl_dig.c >ldbl_dig.E 2>/dev/null
if $contains 'LDBL_DIG' ldbl_dig.E >/dev/null 2>&1; then
 echo "LDBL_DIG found." >&4
 val="$define"
else
 echo "LDBL_DIG NOT found." >&4
 val="$undef"
fi
$rm -f ldbl_dig.?
set d_ldbl_dig
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_ldbl_dig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2016 H.Merijn Brand & Todd Rinaldo
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:default_inc_excludes_dot: Myread cat
?MAKE: -pick add $@ %<
?S:default_inc_excludes_dot:
?S: When defined, remove the legacy '.' from @INC
?S:.
?C:DEFAULT_INC_EXCLUDES_DOT:
?C: This symbol, if defined, removes the legacy default behavior of
?C: including '.' at the end of @INC.
?C:.
?H:#$default_inc_excludes_dot DEFAULT_INC_EXCLUDES_DOT /**/
?H:.
: Include . in @INC
$cat <<EOM

Historically Perl has provided a final fallback of the current working
directory '.' when searching for a library. This, however, can lead to
problems when a Perl program which loads optional modules is called from
a shared directory. This can lead to executing unexpected code.

EOM

# When changing to exclude by
 default:
case "$default_inc_excludes_dot" in
   $undef|false|[nN]*) dflt="n" ;;
   *)                  dflt="y" ;;
esac
# To turn exclude off by default:
#case "$default_inc_excludes_dot" in
#    $define|true|[yY]*) dflt="y" ;;
#    *)                  dflt="n" ;;
#esac

rp='Exclude '.' from @INC by default? '
. ./myread
```

```
case "$ans" in
   [nN]|undef) default_inc_excludes_dot="$undef"  ;;
   *)         default_inc_excludes_dot="$define" ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/defaultincdot.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: make.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: make.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:09:40  ram
?RCS: patch61: created
?RCS:
?MAKE:make_set_make : Loc rm sed make
?MAKE: -pick add $@ %<
?S:make_set_make:
?S: Some versions of 'make' set the variable MAKE.  Others do not.
?S: This variable contains the string to be included in Makefile.SH
?S: so that MAKE is set if needed, and not if not needed.
?S: Possible values are:
?S:
?S: make_set_make='#'  #
 If your make program handles this for you,
?S:
?S: make_set_make="MAKE=$make" # if it doesn't.
?S:
?S: This uses a comment character so that we can distinguish a
?S: 'set' value (from a previous config.sh or Configure -D option)
?S: from an uncomputed value.
?S:.
?LINT: extern MAKE
?LINT: change MAKE
?X: This test is based on one from an autoconf-generated configure
?X: script. Autoconf stole a lot from Configure, but now it's our
?X: turn to do so... ;-) -- RAM, 21/02/97
: check whether make sets MAKE
```

```
echo " "
echo "Checking if your $make program sets \$(MAKE)..." >&4
case "$make_set_make" in
")
?X: Use sed so we don't have a line begining with @echo.  Metaconfig
?X: will think that's a command like @if or @end.
 $sed 's/^X //' > testmake.mak << 'EOF'
Xall:
X  @echo 'maketemp="$(MAKE)"'
EOF
?X: GNU make sometimes prints "make[1]: Entering...", which would confuse us
 case "`$make -f testmake.mak 2>/dev/null`" in
 *maketemp=*) make_set_make='#' ;;
 *) make_set_make="MAKE=$make" ;;
 esac
 $rm
 -f testmake.mak
 ;;
esac
case "$make_set_make" in
'#') echo "Yup, it does.";;
*) echo "Nope, it doesn't.";;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/make.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_popen.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_popen.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_popen: Inlibc
?MAKE: -pick add $@ %<
?S:d_popen:
?S: This variable conditionally defines HAS_POPEN if popen() is
?S: available to open a pipe from a process.
```

```
?S:.
?C:HAS_POPEN (POPEN):
?C: This symbol, if defined, indicates that the popen routine is
?C: available to open a pipe from a process.
?C:.
?H:#$d_popen HAS_POPEN  /**/
?H:.
?LINT:set
 d_popen
: see if popen exists
set popen d_popen
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_popen.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_mkstemp.U,v 3.0.1.1 1994/08/29 16:11:57 ram Exp $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_mkstemp.U,v $
?RCS:
?MAKE:d_mkstemp: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkstemp:
?S: This variable conditionally defines the HAS_MKSTEMP symbol, which
?S: indicates to the C program that the mkstemp() routine is available
?S: to exclusively create and open a uniquely named temporary file.
?S:.
?C:HAS_MKSTEMP :
?C: This symbol, if defined, indicates that the mkstemp routine is
?C: available to exclusively create and open a uniquely named
?C: temporary file.
?C:.
?H:#$d_mkstemp HAS_MKSTEMP  /**/
?H:.
?LINT:set d_mkstemp
: see if mkstemp exists
set mkstemp d_mkstemp
eval
```

```
 $inlibc

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_mkstemp.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, 2012 Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:intsize longsize shortsize: Assert Myread cat rm_try +cc +ccflags echo n c
?MAKE: -pick add $@ %<
?S:intsize:
?S: This variable contains the value of the INTSIZE symbol, which
?S: indicates to the C program how many bytes there are in an int.
?S:.
?S:longsize:
?S: This variable contains the value of the LONGSIZE symbol, which
?S: indicates to the C program how many bytes there are in a long.
?S:.
?S:shortsize:
?S: This variable contains the value of the SHORTSIZE symbol which
?S: indicates to the
 C program how many bytes there are in a short.
?S:.
?C:INTSIZE:
?C: This symbol contains the value of sizeof(int) so that the C
?C: preprocessor can make decisions based on it.
?C:.
?C:LONGSIZE:
?C: This symbol contains the value of sizeof(long) so that the C
?C: preprocessor can make decisions based on it.
?C:.
?C:SHORTSIZE:
?C: This symbol contains the value of sizeof(short) so that the C
?C: preprocessor can make decisions based on it.
?C:.
?H:#define INTSIZE $intsize
?H:#define LONGSIZE $longsize
?H:#define SHORTSIZE $shortsize
?H:.
```

```
?T:types t size var
?LINT: set shortsize intsize longsize
: check for lengths of integral types
echo " "
types=''
@if SHORTSIZE || shortsize
types="$types short"
@end
@if INTSIZE || intsize
types="$types int"
@end
@if LONGSIZE || longsize
types="$types long"
@end
for t in $types; do
 $echo $n "Checking to see how big your ${t}s are...$c" >&4
 for size in 2 4 8 16 error; do
  $cat >try.c <<EOCP
#include "static_assert.h"
$t foo;
int main()
{
 STATIC_ASSERT($size
 == sizeof(foo));
 return 0;
}
EOCP
  if $cc -c $ccflags try.c >/dev/null 2>&1; then break; fi
 done
 var=${t}size
 case "$size" in
 error)
  echo " cannot compute it." >&4
  case $t in
  short) dflt=2;;
  int) dflt=4;;
  long) dflt=4;;
  esac
  rp="What is the size of the \"$t\" type (in bytes)?"
  . ./myread
  eval $var="$ans"
  ;;
 *)
  echo " $size bytes." >&4
  eval $var=$size
  ;;
 esac
done
```

```
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/intsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_dlopen.U,v 3.0.1.2 1995/07/25 13:52:56 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_dlopen.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  13:52:56  ram
?RCS: patch56: force compile-link test since symbol might lie in crt0.o (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:34  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_dlopen: Inlibc runnm d_cplusplus ccflags gccversion
?MAKE: -pick add $@ %<
?S:d_dlopen:
?S: This variable conditionally defines the HAS_DLOPEN
 symbol, which
?S: indicates to the C program that the dlopen() routine is available.
?S:.
?C:HAS_DLOPEN :
?C: This symbol, if defined, indicates that the dlopen routine is
?C: available.
?C:.
?H:#$d_dlopen HAS_DLOPEN  /**/
?H:.
?T: xxx_runnm
?T: xxx_ccflags
?LINT:set d_dlopen
?X: We don't permanently change runnm and ccflags, but we do temporarily.
?LINT: change runnm
?LINT: change ccflags
: see if dlopen exists
?X: On NetBSD and FreeBSD, dlopen is available, but it is in
?X: /usr/lib/crt0.o, not in any of the libraries.  Therefore, do not
```

```
?X: use the nm extraction, but use a real compile and link test instead.
xxx_runnm="$runnm"
xxx_ccflags="$ccflags"
runnm=false
: with g++ one needs -shared to get is-in-libc to work for dlopen
case "$gccversion" in
") ;;
*Clang*) ;;
*) case "$d_cplusplus" in
 "$define") ccflags="$ccflags -shared" ;;
 esac
 ;;
esac
set dlopen d_dlopen
eval $inlibc
runnm="$xxx_runnm"
ccflags="$xxx_ccflags"
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_dlopen.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: bitpbyte.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:02:54  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:bitpbyte: cat rm Myread +cc +ccflags
?MAKE: -pick add $@ %<
?S:bitpbyte:
?S: This variable contains the value of the BITS_PER_BYTE symbol, which
?S: indicates to the C program how many bits there are in a byte.
?S:.
?C:BITS_PER_BYTE:
?C: This symbol contains the number
```

```
 of bits in a byte, so that the C
?C: preprocessor can make decisions based on it.
?C:.
?H:#define BITS_PER_BYTE $bitpbyte  /**/
?H:.
?F:!try
: check for length of byte
echo " "
case "$bitpbyte" in
")
 echo "Checking to see how many bits there are in a byte..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
?X: Standard C requires a macro CHAR_BIT in <limits.h>
#ifdef __STDC__
#include <limits.h>
#ifndef CHAR_BIT
#define CHAR_BIT 8
#endif
#ifndef BITSPERBYTE
#define BITSPERBYTE CHAR_BIT
#endif
#else
?X: On non standard C, try with <values.h>
#include <values.h>
#ifndef BITSPERBYTE
#define BITSPERBYTE 8
#endif
#endif
int main()
{
 printf("%d\n", BITSPERBYTE);
}
EOCP
 if $cc $ccflags -o try try.c >/dev/null 2>&1 ; then
  dflt=`./try`
 else
  dflt='8'
  echo "(I can't seem to compile the test program.  Guessing...)"
 fi
 ;;
*)
 dflt="$bitpbyte"
 ;;
esac
rp="What is the length of a byte (in bits)?"
. ./myread
bitpbyte="$ans"
```

```
$rm -f try.c try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/bitpbyte.U
No license file was found, but licenses were detected in source scan.

```
?RCS:
?RCS: Copyright (c) 2012 Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:Assert: cat
?MAKE: -pick add $@ %<
?F:./static_assert.h
: static assertion checking include file
?X:
?X: C programs can include this file to perform STATIC_ASSERT() checks
?X: which are done at compile-time and cause the compilation to fail when
?X: the expression is false.
?X:
?X: It is sufficient to compile with: $cc -c $ccflags try.c
?X: There is no need to link the file to spot the assertion failure.
?X:
$cat >static_assert.h <<'EOC'
#define STATIC_ASSERT(expr) \
 do { switch (0) { case ((expr) ? 1 : 0): case 0: break; } }
 while(0)
EOC
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Assert.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sjis2jis.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: d_sjis2jis.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:25  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sjis2jis: Inlibc
?MAKE: -pick add $@ %<
?S:d_sjis2jis:
?S: This variable conditionally defines the HAS_SJIS2JIS symbol, which
?S: indicates to the C program that the sjis2jis() routine is available
?S: to convert SJIS to JIS.
?S:.
?C:HAS_SJIS2JIS:
?C: This symbol, if defined, indicates that the sjis2jis routine is
?C: available
 to convert SJIS to JIS.
?C:.
?H:#$d_sjis2jis HAS_SJIS2JIS  /**/
?H:.
?LINT:set d_sjis2jis
: see if sjis2jis exists
set sjis2jis d_sjis2jis
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sjis2jis.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: patchlevel.U,v 3.0.1.1 1997/02/28 16:18:41 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: patchlevel.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:18:41  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:patchlevel revision version subversion \
```

```
 perl_patchlevel version_patchlevel_string \
 api_revision api_version api_subversion api_versionstring: \
 package test rsrc echo awk osname
?MAKE: -pick
 add $@ %<
?S:revision:
?S: The value of revision comes from the patchlevel.h file.
?S: In a version number such as 5.6.1, this is the "5".
?S: In patchlevel.h, this is referred to as "PERL_REVISION".
?S:.
?S:patchlevel:
?S: The patchlevel level of this package.
?S: The value of patchlevel comes from the patchlevel.h file.
?S: In a version number such as 5.6.1, this is the "6".
?S: In patchlevel.h, this is referred to as "PERL_VERSION".
?S:.
?S:subversion:
?S: The subversion level of this package.
?S: The value of subversion comes from the patchlevel.h file.
?S: In a version number such as 5.6.1, this is the "1".
?S: In patchlevel.h, this is referred to as "PERL_SUBVERSION".
?S: This is unique to perl.
?S:.
?S:version:
?S: The full version number of this package, such as 5.6.1 (or 5_6_1).
?S: This combines revision, patchlevel, and subversion to get the
?S: full version number, including any possible subversions.
?S: This is suitable for use as a directory name, and hence is
?S: filesystem
 dependent.
?S:.
?S:api_revision:
?S: The three variables, api_revision, api_version, and
?S: api_subversion, specify the version of the oldest perl binary
?S: compatible with the present perl.  In a full version string
?S: such as '5.6.1', api_revision is the '5'.
?S: Prior to 5.5.640, the format was a floating point number,
?S: like 5.00563.
?S:
?S: perl.c:incpush() and lib/lib.pm will automatically search in
?S: $sitelib/.. for older directories back to the limit specified
?S: by these api_ variables.  This is only useful if you have a
?S: perl library directory tree structured like the default one.
?S: See INSTALL for how this works.  The versioned site_perl
?S: directory was introduced in 5.005, so that is the lowest
?S: possible value.  The version list appropriate for the current
?S: system is determined in inc_version_list.U.
?S:
```

```
?S: XXX To do:  Since compatibility can depend on compile time
?S: options (such as bincompat, longlong, etc.) it should
?S: (perhaps) be set by
 Configure, but currently it isn't.
?S: Currently, we read a hard-wired value from patchlevel.h.
?S: Perhaps what we ought to do is take the hard-wired value from
?S: patchlevel.h but then modify it if the current Configure
?S: options warrant.  patchlevel.h then would use an #ifdef guard.
?S:.
?S:api_version:
?S: The three variables, api_revision, api_version, and
?S: api_subversion, specify the version of the oldest perl binary
?S: compatible with the present perl.  In a full version string
?S: such as '5.6.1', api_version is the '6'.  See api_revision for
?S: full details.  As a special case, 5.5.0 is rendered in the
?S: old-style as 5.005.  (In the 5.005_0x maintenance series,
?S: this was the only versioned directory in $sitelib.)
?S:.
?S:api_subversion:
?S: The three variables, api_revision, api_version, and
?S: api_subversion, specify the version of the oldest perl binary
?S: compatible with the present perl.  In a full version string
?S: such as '5.6.1', api_subversion is the
 '1'.  See api_revision for
?S: full details.
?S:.
?S:api_versionstring:
?S: This variable combines api_revision, api_version, and
?S: api_subversion in a format such as 5.6.1 (or 5_6_1) suitable
?S: for use as a directory name.  This is filesystem dependent.
?S:.
?S:perl_patchlevel:
?S: This is the Perl patch level, a numeric change identifier,
?S: as defined by whichever source code maintenance system
?S: is used to maintain the patches; currently Perforce.
?S: It does not correlate with the Perl version numbers or
?S: the maintenance versus development dichotomy except
?S: by also being increasing.
?S:.
?S:version_patchlevel_string:
?S: This is a string combining version, subversion and
?S: perl_patchlevel (if perl_patchlevel is non-zero).
?S: It is typically something like
?S: 'version 7 subversion 1'  or
?S: 'version 7 subversion 1 patchlevel 11224'
?S: It is computed here to avoid duplication of code in myconfig.SH
?S: and lib/Config.pm.
?S:.
```

```
?LINT:extern LC_ALL
?LINT:extern LANGUAGE
:
 get the patchlevel
echo " "
echo "Getting the current patchlevel..." >&4
if $test -r $rsrc/patchlevel.h;then
 revision=`awk '/define[  ]+PERL_REVISION/ {print $3}' $rsrc/patchlevel.h`
 patchlevel=`awk '/define[  ]+PERL_VERSION/ {print $3}' $rsrc/patchlevel.h`
 subversion=`awk '/define[  ]+PERL_SUBVERSION/ {print $3}' $rsrc/patchlevel.h`
 api_revision=`awk '/define[  ]+PERL_API_REVISION/ {print $3}' $rsrc/patchlevel.h`
 api_version=`awk '/define[  ]+PERL_API_VERSION/ {print $3}' $rsrc/patchlevel.h`
 api_subversion=`awk '/define[  ]+PERL_API_SUBVERSION/ {print $3}' $rsrc/patchlevel.h`
 perl_patchlevel=`egrep ',"(MAINT|SMOKE)[0-9][0-9]*"' $rsrc/patchlevel.h|tail -1|sed 's/[^0-9]//g'`
else
 revision=0
 patchlevel=0
 subversion=0
 api_revision=0
 api_version=0
 api_subversion=0
 perl_patchlevel=0
 $echo "(You do not have patchlevel.h.  Eek.)"
fi
: Define a handy string here to avoid duplication in myconfig.SH and configpm.
version_patchlevel_string="version $patchlevel subversion $subversion"
case
 "$perl_patchlevel" in
0|'') ;;
*)  perl_patchlevel=`echo $perl_patchlevel | sed 's/.* //'`
   version_patchlevel_string="$version_patchlevel_string patch $perl_patchlevel"
   ;;
esac

$echo "(You have $package $version_patchlevel_string.)"

case "$osname" in
dos|vms)
 : XXX Should be a Configure test for double-dots in filenames.
 version=`echo $revision $patchlevel $subversion | \
   $awk '{ printf "%d_%d_%d", $1, $2, $3 }'`
 api_versionstring=`echo $api_revision $api_version $api_subversion | \
   $awk '{ printf "%d_%d_%d", $1, $2, $3 }'`
 ;;
*)
 version=`echo $revision $patchlevel $subversion | \
   $awk '{ printf "%d.%d.%d", $1, $2, $3 }'`
 api_versionstring=`echo $api_revision $api_version $api_subversion | \
```

```
   $awk '{ printf "%d.%d.%d", $1, $2, $3 }'`
 ;;
esac
: Special case the 5.005_xx maintenance series, which used 5.005
: without any subversion label as a subdirectory in $sitelib
if test "${api_revision}${api_version}${api_subversion}" = "550"; then
 api_versionstring='5.005'
fi
```

Found
 in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/patchlevel.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_tgamma: Inlibc
?MAKE: -pick add $@ %<
?S:d_tgamma:
?S: This variable conditionally defines the HAS_TGAMMA symbol, which
?S: indicates to the C program that the tgamma() routine is available
?S: for the gamma function.  See also d_lgamma.
?S:.
?C:HAS_TGAMMA:
?C: This symbol, if defined, indicates that the tgamma routine is
?C: available to do the gamma function. See also HAS_LGAMMA.
?C:.
?H:#$d_tgamma HAS_TGAMMA  /**/
?H:.
?LINT:set d_tgamma
: see if tgamma exists
set tgamma d_tgamma
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_tgamma.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: bin.U,v 3.1 1999/07/09 18:20:13 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: bin.U,v $
?RCS: Revision 3.1  1999/07/09 18:20:13  doughera
?RCS: Updated for installprefix
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:15:32  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:32:40  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:05:28  ram
?RCS: patch32: now uses installation prefix
?RCS:
?RCS:
 Revision 3.0.1.1  1993/09/13  15:56:51  ram
?RCS: patch10: made prompting more explicit (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:bin binexp installbin userelocatableinc initialinstalllocation: \
 Myread Prefixit Getfile Setvar Setprefixvar Oldconfig \
 test prefix prefixexp
?MAKE: -pick add $@ %<
?Y:TOP
?D:bin=''
?S:bin:
?S: This variable holds the name of the directory in which the user wants
?S: to put publicly executable images for the package in question.  It
?S: is most often a local directory such as /usr/local/bin. Programs using
?S: this variable must be prepared to deal with ~name substitution.
?S:.
?D:binexp=''
?S:binexp:
?S: This is the same as the bin variable, but is filename expanded at
?S: configuration time, for use in your makefiles.
?S:.
?D:installbin=''
?S:installbin:
?S: This variable is the same as binexp unless AFS is running in which case
?S: the user is explicitly prompted for it. This variable
 should always
?S: be used in your makefiles for maximum portability.
?S:.
?D:userelocatableinc=''
```

```
?S:userelocatableinc:
?S: This variable is set to true to indicate that perl should relocate
?S: @INC entries at runtime based on the path to the perl binary.
?S: Any @INC paths starting "../" are relocated relative to the directory
?S: containing the perl binary, and a logical cleanup of the path is then
?S: made around the join point (removing "dir/../" pairs)
?S:.
?S:initialinstalllocation:
?S: When userelocatableinc is true, this variable holds the location
?S: that make install should copy the perl binary to, with all the
?S: run-time relocatable paths calculated from this at install time.
?S: When used, it is initialized to the original value of binexp, and
?S: then binexp is set to '../', as the other binaries are found
?S: relative to the perl binary.
?S:.
?C:BIN:
?C: This symbol holds the path of the bin directory where the package will
?C: be installed. Program must be
 prepared to deal with ~name substitution.
?C:.
?C:BIN_EXP:
?C: This symbol is the filename expanded version of the BIN symbol, for
?C: programs that do not want to deal with that at run-time.
?C:.
?C:PERL_RELOCATABLE_INC:
?C: This symbol, if defined, indicates that we'd like to relocate entries
?C: in @INC at run time based on the location of the perl binary.
?C:.
?H:#define BIN "$bin" /**/
?H:#define BIN_EXP "$binexp" /**/
?H:#define PERL_RELOCATABLE_INC "$userelocatableinc"  /**/
?H:.
?D:bin='/usr/local/bin'
?LINT:change prefix
?LINT:change prefixexp
?LINT:change prefixvar
?LINT:change installprefixexp
?LINT:set userelocatableinc
: determine where public executables go
echo " "
set dflt bin bin
eval $prefixit
fn=d~
rp='Pathname where the public executables will reside?'
. ./getfile
if $test "X$ansexp" != "X$binexp"; then
 installbin="
fi
```

```
prefixvar=bin
: XXX Bug? -- ignores Configure -Dinstallprefix setting.
: XXX If this is fixed, also fix the "start perl" hunk below, which relies on
:
    this via initialinstalllocation
. ./setprefixvar

case "$userelocatableinc" in
$define|true|[yY]*) dflt='y' ;;
*)   dflt='n' ;;
esac
cat <<EOM

Would you like to build Perl so that the installation is relocatable, so that
library paths in @INC are determined relative to the path of the perl binary?
This is not advised for system Perl installs, or if you need to run setid
scripts or scripts under taint mode.

If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp='Use relocatable @INC?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*) val="$undef"  ;;
esac
set userelocatableinc
eval $setvar

initialinstalllocation="$binexp"
: Default prefix is now "up one level from where the binaries are"
case "$userelocatableinc" in
$define|true|[yY]*)
   bin=".../"
   binexp=".../"
   prefix=".../.."
   prefixexp=".../.."
   installprefixexp=".../.."
   ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/bin.U
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:

```
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_syssecrt: Inhdr
?MAKE: -pick add $@ %<
?S:i_syssecrt:
?S: This variable conditionally defines the I_SYS_SECURITY symbol,
?S: and indicates whether a C program should include <sys/security.h>.
?S:.
?C:I_SYS_SECURITY:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/security.h>.
?C:.
?H:#$i_syssecrt   I_SYS_SECURITY /**/
?H:.
?LINT:set i_syssecrt
: see if sys/security.h is available
set sys/security.h i_syssecrt
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/acl/i_syssecrt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_stddef.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_stddef.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_stddef: Inhdr
?MAKE: -pick add $@ %<
?S:i_stddef:
?S: This variable conditionally defines the I_STDDEF symbol, which
```

```
?S: indicates to the C program that <stddef.h> exists and should
?S: be included.
?S:.
?C:I_STDDEF:
?C: This symbol, if defined, indicates that <stddef.h> exists and should
?C: be included.
?C:.
?H:#$i_stddef I_STDDEF /**/
?H:.
?LINT:set
 i_stddef
: see if stddef is available
set stddef.h i_stddef
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_stddef.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysparam.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysparam.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:22:43  ram
?RCS: patch32: created
?RCS:
?MAKE:i_sysparam: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysparam:
?S: This variable conditionally defines the I_SYS_PARAM symbol, and indicates
?S: whether a C program should include <sys/param.h>.
?S:.
?C:I_SYS_PARAM:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/param.h>.
?C:.
?H:#$i_sysparam I_SYS_PARAM  /**/
?H:.
?LINT:set
```

```
 i_sysparam
: see if this is a sys/param system
set sys/param.h i_sysparam
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sysparam.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endpent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_endpent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_endpent: Inlibc
?MAKE: -pick add $@ %<
?S:d_endpent:
?S: This variable conditionally defines HAS_ENDPROTOENT if endprotoent() is
?S: available to close whatever was being used for protocol queries.
?S:.
?C:HAS_ENDPROTOENT:
?C: This symbol, if defined, indicates that the endprotoent() routine is
?C: available to close whatever was being used
 for protocol queries.
?C:.
?H:#$d_endpent HAS_ENDPROTOENT  /**/
?H:.
?LINT:set d_endpent
: see if endprotoent exists
set endprotoent d_endpent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_endpent.U
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```
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```

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_llroundl: Inlibc
?MAKE: -pick add $@ %<
?S:d_llroundl:
?S: This variable conditionally defines the HAS_LLROUNDL symbol, which
?S: indicates to the C program that the llroundl() routine is available
?S: to return the long long value nearest to x away from zero.
?S:.
?C:HAS_LLROUNDL:
?C: This symbol, if defined, indicates that the llroundl routine is
?C: available to return the nearest long long value away from zero of
?C: the long double argument value.
?C:.
?H:#$d_llroundl HAS_LLROUNDL  /**/
?H:.
?LINT:set d_llroundl
: see if llroundl exists
set llroundl d_llroundl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_llroundl.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:usequadmath: Setvar cat uselongdouble
?MAKE: -pick add $@ %<
?S:usequadmath:
?S: This variable conditionally defines the USE_QUADMATH symbol,
?S: and indicates that the quadmath library __float128 long doubles
?S: should be used when available.
?S:.
?C:USE_QUADMATH:
?C: This symbol, if defined, indicates that the quadmath library should
?C: be used when available.
?C:.
?H:?%<:#ifndef USE_QUADMATH
?H:?%<:#$usequadmath USE_QUADMATH  /**/
?H:?%<:#endif
?H:.
: Check if quadmath is requested
case "$usequadmath" in
"$define"|true|[yY]*) usequadmath="$define" ;;
*)                    usequadmath="$undef"  ;;
```

```
esac

: Fail if both uselongdouble and usequadmath are requested
case "$usequadmath:$uselongdouble" in
define:define)
 $cat <<EOM >&4

*** You requested the use of
 the quadmath library and use
*** of long doubles.
***
*** Please select one or the other.
EOM
 exit 1
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/usequadmath.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: prototype.U,v $
?RCS: Revision 3.0.1.3  1994/05/06  15:11:49  ram
?RCS: patch23: ensure cc flags used when looking for prototype support
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:15:36  ram
?RCS: patch16: prototype handling macros now appear only when needed
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:03:12  ram
?RCS: patch6: defines were referring to non-existent VOID symbol
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:36  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:prototype:
 Myread Oldconfig cat +cc +ccflags rm Setvar
?MAKE: -pick add $@ %<
```

```
?S:prototype:
?S: This variable holds the eventual value of CAN_PROTOTYPE, which
?S: indicates the C compiler can handle funciton prototypes.
?S:.
?C:CAN_PROTOTYPE ~ %<:
?C: If defined, this macro indicates that the C compiler can handle
?C: function prototypes.
?C:.
?C:DOTS:
?C: This macro is used to specify the ... in function prototypes which
?C: have arbitrary additional arguments.
?C:.
?C:NXT_ARG:
?C: This macro is used to separate arguments in the declared argument list.
?C:.
?C:P_FUNC:
?C: This macro is used to declare "private" (static) functions.
?C: It takes three arguments: the function type and name, a parenthesized
?C: traditional (comma separated) argument list, and the declared argument
?C: list (in which arguments are separated with NXT_ARG, and additional
?C: arbitrary arguments are specified with DOTS).  For example:
?C:
?C:  P_FUNC(int foo, (bar, baz), int bar NXT_ARG char *baz[])
?C:.
?C:P_FUNC_VOID:
?C: This
 macro is used to declare "private" (static) functions that have
?C: no arguments.  The macro takes one argument: the function type and name.
?C: For example:
?C:
?C:  P_FUNC_VOID(int subr)
?C:.
?C:V_FUNC:
?C: This macro is used to declare "public" (non-static) functions.
?C: It takes three arguments: the function type and name, a parenthesized
?C: traditional (comma separated) argument list, and the declared argument
?C: list (in which arguments are separated with NXT_ARG, and additional
?C: arbitrary arguments are specified with DOTS).  For example:
?C:
?C:  V_FUNC(int main, (argc, argv), int argc NXT_ARG char *argv[])
?C:.
?C:V_FUNC_VOID:
?C: This macro is used to declare "public" (non-static) functions that have
?C: no arguments.  The macro takes one argument: the function type and name.
?C: For example:
?C:
?C:  V_FUNC_VOID(int fork)
?C:.
```

```
?C:_ (P):
?C: This macro is used to declare function parameters for folks who want
?C: to make declarations with prototypes using a
 different style than
?C: the above macros.  Use double parentheses.  For example:
?C:
?C:  int main _((int argc, char *argv[]));
?C:.
?H:?%<:#$prototype CAN_PROTOTYPE /**/
?H:?%<:#ifdef CAN_PROTOTYPE
?H:?NXT_ARG:#define NXT_ARG ,
?H:?DOTS:#define DOTS , ...
?H:?V_FUNC:#define V_FUNC(name, arglist, args)name(args)
?H:?P_FUNC:#define P_FUNC(name, arglist, args)static name(args)
?H:?V_FUNC_VOID:#define V_FUNC_VOID(name)name(void)
?H:?P_FUNC_VOID:#define P_FUNC_VOID(name)static name(void)
?H:?_:#define _(args) args
?H:?%<:#else
?H:?NXT_ARG:#define NXT_ARG ;
?H:?DOTS:#define DOTS
?H:?V_FUNC:#define V_FUNC(name, arglist, args)name arglist args;
?H:?P_FUNC:#define P_FUNC(name, arglist, args)static name arglist args;
?H:?V_FUNC_VOID:#define V_FUNC_VOID(name)name()
?H:?P_FUNC_VOID:#define P_FUNC_VOID(name)static name()
?H:?_:#define _(args) ()
?H:?%<:#endif
?H:.
?W:%<:NXT_ARG DOTS V_FUNC P_FUNC V_FUNC_VOID P_FUNC_VOID _
?LINT:set prototype
: Cruising for prototypes
echo " "
echo "Checking out
 function prototypes..." >&4
$cat >prototype.c <<'EOCP'
int main(int argc, char *argv[]) {
 exit(0);}
EOCP
if $cc $ccflags -c prototype.c >prototype.out 2>&1 ; then
 echo "Your C compiler appears to support function prototypes."
 val="$define"
else
 echo "Your C compiler doesn't seem to understand function prototypes."
 val="$undef"
fi
set prototype
eval $setvar
$rm -f prototype*
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/prototype.U
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```
?RCS: $Id: kernel.U 1 2006-08-24 12:32:52Z rmanfredi $
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: kernel.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:kernel: Getfile test
?MAKE: -pick add $@ %<
?S:kernel:
?S: This variable becomes the (fully rooted) path name of the kernel.
?S:.
: find the name of the kernel.
echo " "
case "$kernel" in
")
 if $test -r /unix; then
  dflt=/unix
 elif $test -r /vmunix; then
  dflt=/vmunix
 elif $test -r /xenix; then
  dflt=/xenix
 elif $test -r /mach; then
  dflt=/mach
 elif
 $test -r /dgux; then
  dflt=/dgux
 elif $test -r /hp-ux; then
  dflt=/hp-ux
 elif $test -r /syst; then
  dflt=/syst
 elif $test -r /arix; then
  dflt=/arix
 elif $test -r /irix; then
  dflt=/arix
 else
```

```
  dflt='unknown'
  set X /*x
  shift
  case $# in
  1)
   if $test -r "$1"; then
    dflt="$1"
   fi
   ;;
  esac
 fi
 ;;
*)
 dflt="$kernel"
 ;;
esac
fn=f
rp='What is the name of your kernel?'
. ./getfile
kernel="$ans"
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/kernel.U
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```
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?RCS:
?RCS: Copyright (c) 2019 Karl Williamson
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_towupper: Inlibc
?MAKE: -pick add $@ %<
?S:d_towupper:
?S: This variable conditionally defines the HAS_TOWUPPER symbol, which
?S: indicates to the C program that the towupper() routine is available.
?S:.
?C:HAS_TOWUPPER:
?C: This symbol, if defined, indicates that the towupper () routine is
?C: available to do case conversion.
?C:.
?H:#$d_towupper HAS_TOWUPPER  /**/
?H:.
?LINT:set d_towupper
: see if towupper exists
set towupper d_towupper
```

```
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_towupper.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_attribut.U,v $
?RCS: Revision 3.0.1.3  1995/01/30  14:33:45  ram
?RCS: patch49: test C program now includes <stdio.h> (WED)
?RCS:
?RCS: Revision 3.0.1.2  1995/01/11  15:25:47  ram
?RCS: patch45: fixed typo in the d_attribut variable (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:08:55  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_attribut: Myread Oldconfig cat cc ccflags rm Setvar contains
?MAKE: -pick add $@ %<
?S:d_attribut
 (d_attrib):
?S: This variable conditionally defines HASATTRIBUTE, which
?S: indicates the C compiler can check for function attributes,
?S: such as printf formats.
?S:.
?C:HASATTRIBUTE ~ %< (GNUC_ATTRIBUTE_CHECK):
?C: This symbol indicates the C compiler can check for function attributes,
?C: such as printf formats. This is normally only supported by GNU cc.
?C:.
?H:?%<:#$d_attribut HASATTRIBUTE  /**/
?H:?%<:#ifndef HASATTRIBUTE
?H:?%<:#define __attribute__(_arg_)
?H:?%<:#endif
?H:.
?W:%<:__attribute__
?LINT:set d_attribut
```

```
?LINT:known __attribute__
: Look for GNU-cc style attribute checking
echo " "
echo "Checking whether your compiler can handle __attribute__ ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
void croak (char* pat,...) __attribute__((format(printf,1,2),noreturn));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $contains 'warning' attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't fully support __attribute__."
  val="$undef"
 else
  echo
 "Your C compiler supports __attribute__."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
set d_attribut
eval $setvar
$rm -f attrib*
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_attribut.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_futimes: Compile cat rm_try run
?MAKE: -pick add $@ %<
?S:d_futimes:
?S: This variable conditionally defines the HAS_FUTIMES symbol, which
?S: indicates to the C program that the futimes() routine is available.
?S:.
?C:HAS_FUTIMES:
?C: This symbol, if defined, indicates that the futimes routine is
?C: available to change file descriptor time stamps with struct timevals.
?C:.
?H:#$d_futimes HAS_FUTIMES  /**/
```

```
?H:.
?T:rc
?F:!try
: check for a working futimes
d_futimes="$undef"
echo " "
echo "Checking if you have a working futimes()" >&4
$cat >try.c <<EOCP
#include <stdio.h>
#include <stdlib.h>
#include <sys/time.h>
#include <errno.h>
#include <fcntl.h>
#include <stdlib.h>

int main ()
{
   int fd,
 rv;
   fd = open ("try.c", O_RDWR);
   if (-1 == fd) exit (1);
   rv = futimes (fd, NULL);
   exit (rv == -1 ? errno : 0);
}
EOCP
set try
if eval $compile; then
   `$run ./try`
   rc=$?
   case "$rc" in
 0)  echo "Yes, you have" >&4
     d_futimes="$define"
     ;;
 *)  echo "No, you have futimes, but it isn't working ($rc) (probably harmless)" >&4
     ;;
   esac
else
   echo "No, it does not (probably harmless)" >&4
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_futimes.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getsent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
```

```
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_getsent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getsent: Inlibc
?MAKE: -pick add $@ %<
?S:d_getsent:
?S: This variable conditionally defines HAS_GETSERVENT if getservent() is
?S: available to look up network services in some data base or another.
?S:.
?C:HAS_GETSERVENT:
?C: This symbol, if defined, indicates that the getservent() routine is
?C: available to look up network services in some
 data base or another.
?C:.
?H:#$d_getsent HAS_GETSERVENT  /**/
?H:.
?LINT:set d_getsent
: see if getservent exists
set getservent d_getsent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_getsent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: package.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: package.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:27:21  ram
?RCS: patch36: beware of non-ascii character sets when translating case
```

```
?RCS:
?RCS: Revision 3.0.1.2  1993/11/10  17:37:02  ram
?RCS: patch14: skip definition of spackage if not otherwise used
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:11:10  ram
?RCS: patch10: added spackage, suitable for starting sentences
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:28  ram
?RCS: Baseline for dist 3.0
 netwide release.
?RCS:
?MAKE:package spackage: Nothing
?MAKE: -pick wipe $@ %<
?S:package:
?S: This variable contains the name of the package being constructed.
?S: It is primarily intended for the use of later Configure units.
?S:.
?S:spackage:
?S: This variable contains the name of the package being constructed,
?S: with the first letter uppercased, i.e. suitable for starting
?S: sentences.
?S:.
?X: dist-4 has defined PACKAGE: here, which clashes with perly.h
?X:  as package is a reserved keyword in perl
?T:first last
: set package name
package='<PACKAGENAME>'
@if spackage
first=`echo $package | sed -e 's/^\(.\).*/\1/'`
last=`echo $package | sed -e 's/^.\(.*\)/\1/'`
?X:
?X: So early in the Configure script, we don't have ./tr set up and can't
?X: include Tr in our dependency or that would create a cycle. Therefore,
?X: we have to somehow duplicate the work done in Tr. That's life.
?X:
case "`echo AbyZ | tr '[:lower:]' '[:upper:]' 2>/dev/null`"-"`echo AbyZ | tr '[:upper:]' '[:lower:]'
 2>/dev/null`" in
ABYZ-abyz) spackage=`echo $first | tr '[:lower:]' '[:upper:]'`$last;;
*) spackage=`echo $first | tr '[a-z]' '[A-Z]'`$last;;
esac
@end
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/package.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_strccmp.U 1 2006-08-24 12:32:52Z rmanfredi $

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strccmp.U,v $
?RCS: Revision 3.0.1.2  1994/05/06  14:54:34  ram
?RCS: patch23: fixed a typo (WED)
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:04:39  ram
?RCS: patch10: created (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strccmp: Inlibc
?MAKE: -pick add $@ %<
?S:d_strccmp:
?S: This variable conditionally defines the HAS_STRCASECMP symbol, which
?S: indicates to the C program
 that the strcasecmp() routine is available
?S: for case-insensitive string compares.
?S:.
?C:HAS_STRCASECMP:
?C: This symbol, if defined, indicates that the strcasecmp() routine is
?C: available for case-insensitive string compares.
?C:.
?H:#$d_strccmp HAS_STRCASECMP /**/
?H:.
?LINT:set d_strccmp
: see if strcasecmp exists
set strcasecmp d_strccmp
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strccmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getcwd: Inlibc
?MAKE: -pick add $@ %<
?S:d_getcwd:
?S: This variable conditionally defines the HAS_GETCWD symbol, which
?S: indicates to the C program that the getcwd() routine is available
?S: to get the current working directory.
?S:.
?C:HAS_GETCWD :
?C: This symbol, if defined, indicates that the getcwd routine is
?C: available to get the current working directory.
?C:.
?H:#$d_getcwd HAS_GETCWD  /**/
?H:.
?LINT:set d_getcwd
: see if getcwd exists
set getcwd d_getcwd
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getcwd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getservbyname_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getservbyname_r getservbyname_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getservbyname_r:
?S: This variable conditionally defines the HAS_GETSERVBYNAME_R symbol,
?S: which indicates to the C program that the getservbyname_r()
?S: routine is available.
?S:.
?S:getservbyname_r_proto:
?S: This variable encodes the prototype of getservbyname_r.
?S: It is zero if d_getservbyname_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getservbyname_r
?S: is defined.
?S:.
?C:HAS_GETSERVBYNAME_R:
```

```
?C: This symbol, if defined, indicates
 that the getservbyname_r routine
?C: is available to getservbyname re-entrantly.
?C:.
?C:GETSERVBYNAME_R_PROTO:
?C: This symbol encodes the prototype of getservbyname_r.
?C: It is zero if d_getservbyname_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getservbyname_r
?C: is defined.
?C:.
?H:#$d_getservbyname_r HAS_GETSERVBYNAME_R /**/
?H:#define GETSERVBYNAME_R_PROTO $getservbyname_r_proto /**/
?H:.
?T:try hdrs d_getservbyname_r_proto
: see if getservbyname_r exists
set getservbyname_r d_getservbyname_r
eval $inlibc
case "$d_getservbyname_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getservbyname_r_proto:$usethreads" in
 ":define") d_getservbyname_r_proto=define
  set d_getservbyname_r_proto getservbyname_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getservbyname_r_proto" in
 define)
 case "$getservbyname_r_proto" in
 "|0) try='int getservbyname_r(const char*, const char*, struct servent*, char*,
 size_t, struct servent**);'
 ./protochk "$extern_C $try" $hdrs && getservbyname_r_proto=I_CCSBWR ;;
 esac
 case "$getservbyname_r_proto" in
 "|0) try='struct servent* getservbyname_r(const char*, const char*, struct servent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getservbyname_r_proto=S_CCSBI ;;
 esac
 case "$getservbyname_r_proto" in
 "|0) try='int getservbyname_r(const char*, const char*, struct servent*, struct servent_data*);'
 ./protochk "$extern_C $try" $hdrs && getservbyname_r_proto=I_CCSD ;;
 esac
 case "$getservbyname_r_proto" in
 "|0) d_getservbyname_r=undef
  getservbyname_r_proto=0
  echo "Disabling getservbyname_r, cannot determine prototype." >&4 ;;
 * ) case "$getservbyname_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getservbyname_r_proto="REENTRANT_PROTO_$getservbyname_r_proto" ;;
```

```
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getservbyname_r has no prototype, not using it." >&4 ;;
  esac
  d_getservbyname_r=undef
  getservbyname_r_proto=0
  ;;
 esac
 ;;
*) getservbyname_r_proto=0
 ;;
esac
```

Found
 in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getservbyname_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: otherlibdirs.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999-2000, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: otherlibdirs.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?RCS: Revision 1.1  1999/07/08 18:20:26  doughera
?RCS: Initial revision
?RCS:
?RCS:
?MAKE:otherlibdirs d_perl_otherlibdirs: Myread cat sitelib sitearch \
 vendorarch vendorlib Setvar
?MAKE: -pick add $@ %<
?Y:TOP
?S:otherlibdirs:
?S: This variable contains a colon-separated set of paths for the perl
?S: binary to search for additional library files
```

```
 or modules.
?S: These directories will be tacked to the end of @INC.
?S: Perl will automatically search below each path for version-
?S: and architecture-specific directories.  See inc_version_list
?S: for more details.
?S: A value of ' ' means 'none' and is used to preserve this value
?S: for the next run through Configure.
?S:.
?S:d_perl_otherlibdirs:
?S: This variable conditionally defines PERL_OTHERLIBDIRS, which
?S: contains a colon-separated set of paths for the perl binary to
?S: include in @INC.  See also otherlibdirs.
?S:.
?C:PERL_OTHERLIBDIRS:
?C: This variable contains a colon-separated set of paths for the perl
?C: binary to search for additional library files or modules.
?C: These directories will be tacked to the end of @INC.
?C: Perl will automatically search below each path for version-
?C: and architecture-specific directories.  See PERL_INC_VERSION_LIST
?C: for more details.
?C:.
?H:#$d_perl_otherlibdirs PERL_OTHERLIBDIRS "$otherlibdirs"  /**/
?H:.
?LINT: set d_perl_otherlibdirs
:
 Final catch-all directories to search
$cat <<EOM

Lastly, you can have perl look in other directories for extensions and
modules in addition to those already specified.
These directories will be searched after
 $sitearch
 $sitelib
EOM
test X"$vendorlib" != "X" && echo ' ' $vendorlib
test X"$vendorarch" != "X" && echo ' ' $vendorarch
echo ' '
case "$otherlibdirs" in
"|' ') dflt='none' ;;
*) dflt="$otherlibdirs" ;;
esac
$cat <<EOM
Enter a colon-separated set of extra paths to include in perl's @INC
search path, or enter 'none' for no extra paths.

EOM

rp='Colon-separated list of additional directories for perl to search?'
```

```
. ./myread
case "$ans" in
' '|''|none) otherlibdirs=' ' ;;
*) otherlibdirs="$ans" ;;
esac
case "$otherlibdirs" in
' ') val=$undef ;;
*) val=$define ;;
esac
set d_perl_otherlibdirs
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/otherlibdirs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Protochk.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X: This unit generates a ./protochk script that is used internally
?X: by Configure to check if this system will accept a particular
?X: prototype.
?X:
?X: To use it, say something like:
?X: hdrs="$define sys/types.h
?X:  $i_systime sys/time.h
?X:  $i_sysselct sys/select.h
?X:  $d_socket sys/socket.h"
?X: $xxx='fd_set *'
?X: try='extern int select _((int, $xxx, $xxx, $xxx, struct timeval *'));'
?X: if ./protochk "$try" $hdrs; then
?X:  echo "Your system accepts $xxx for the arguments to select."
?X: fi
?X:  (Of course select is harder, since the first arg can be int,
?X: size_t, or unsigned long, and the last arg may or may not have a
?X: 'const' before the 'struct timeval' :-(.  Also SunOS
 4.1.3 doesn't
?X: provide a select prototype so the compiler accepts anything :-).
?X:
?X: The C compiler on QNX warns about invalid pointer types, but
?X: still exits with a 0 exit status, so it's not much help here.
?X: (It does correctly detect incorrect non-pointer arguments).
?X: Still, since QNX is a POSIX-ish system, just make your first
```

```
?X: a POSIX-ish one, and QNX will probably accept it.
?X:
?X: For determining argument types, your compiler must support
?X: prototypes, and the header files must use them.  Determining
?X: return types, however, is easier.  Just give an ridiculous
?X: return type, something like
?X: ./protochk 'extern int atof _((void));' $i_stdlib stdlib.h
?X: that should surely fail if atof() is defined in <stdlib.h>
?X:
?X: There is also an 'escape' hatch built in.  If you have a pair
?X: of args   'literal 'stuff' then 'stuff' gets included literally
?X: into the test program.  This could be useful for doing something
?X: like
?X: hdrs="$define stdio.h
?X:  $define
 sys/types.h"
?X: ./protochk 'extern int fsetpos(FILE *, Fpos_t);' $args \
?X:   'literal' '#define Fpos_t long long'
?X: but you have to be really careful about the spaces in "literal".
?X:
?X:  Andy Dougherty   Feb. 1998
?MAKE:Protochk: cat rm_try startsh eunicefix +cc +optimize +ccflags \
 i_pthread usethreads
?MAKE: -pick add $@ %<
?F:./protochk
?X: Comfort metalint.  All these are actually used in the protochk script.
?T:foo status pthread_h_done
?LINT: change cc optimize ccflags define rm_try
?LINT: extern pthread_h_first
?LINT: change pthread_h_first
?LINT: change usethreads
?LINT: change i_pthread
: define a function to check prototypes
$cat > protochk <<EOSH
$startsh
cc="$cc"
optimize="$optimize"
ccflags="$ccflags"
define="$define"
rm_try="$rm_try"
usethreads=$usethreads
i_pthread=$i_pthread
pthread_h_first=$pthread_h_first
EOSH

$cat >> protochk <<'EOSH'

$rm_try
```

```
foo="$1"
shift
while test $# -ge 2; do
 case "$1" in
  $define) echo "#include <$2>" >> try.c ;;
  literal)
 echo "$2" >> try.c ;;
 esac
   # Extra magic for the benefit of systems that need pthread.h
   # to be included early to correctly detect threadsafe functions.
   # Such functions must guarantee themselves, though, that the usethreads
   # and i_pthread have been defined, before calling protochk.
   if test "$usethreads" = "$define" -a "$i_pthread" = "$define" -a "$pthread_h_first" = "$define" -a
"$pthread_h_done" = ""; then
 echo "#include <pthread.h>" >> try.c
 pthread_h_done=yes
   fi
   shift 2
done
cat >> try.c <<'EOCP'
#define _(args) args
EOCP
echo "$foo" >> try.c
?X: Just so we have something to compile.
echo 'int no_real_function_has_this_name _((void)) { return 0; }' >> try.c
$cc $optimize $ccflags -c try.c > /dev/null 2>&1
status=$?
$rm_try
exit $status
EOSH
chmod +x protochk
$eunicefix protochk
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/Protochk.U
No license file was found, but licenses were detected in source scan.

* Feel free to modify any of this as the need arises. Note, however,

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/metaconfig.html
No license file was found, but licenses were detected in source scan.

?RCS: $Id: voidflags.U,v 3.0.1.2 1997/02/28 16:27:58 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: voidflags.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:27:58  ram
?RCS: patch61: don't prompt them if the void support is high enough for us
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:37:44  ram
?RCS: patch45: cosmetic change to avoid spurious blank lines when using -s
?RCS:
?RCS: Revision 3.0  1993/08/18  12:10:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:voidflags defvoidused: cat rm_try compiler_warning +cc +ccflags package \
 Oldconfig
 Myread i_stdlib
?MAKE: -pick add $@ %<
?S:voidflags:
?S: This variable contains the eventual value of the VOIDFLAGS symbol,
?S: which indicates how much support of the void type is given by this
?S: compiler.  See VOIDFLAGS for more info.
?S:.
?S:defvoidused:
?S: This variable contains the default value of the VOIDUSED symbol (15).
?S:.
?X: Exceptionally, we have to explicitly alias the symbol name for
?X: config_h.SH, otherwise the comment would not appear.
?C:VOIDFLAGS ~ %<:
?C: This symbol indicates how much support of the void type is given by this
?C: compiler.  What various bits mean:
?C:
?C:     1 = supports declaration of void
?C:     2 = supports arrays of pointers to functions returning void
?C:     4 = supports comparisons between pointers to void functions and
?C:      addresses of void functions
?C:     8 = supports declaration of generic void pointers
?C:
?C: The package designer should define VOIDUSED to indicate the requirements
?C: of the package.  This can be
 done either by #defining VOIDUSED before
?C: including config.h, or by defining defvoidused in Myinit.U.  If the
?C: latter approach is taken, only those flags will be tested.  If the
?C: level of void support necessary is not present, defines void to int.
?C:.
```

```
?H:?%<:#ifndef VOIDUSED
?H:?%<:#define VOIDUSED $defvoidused
?H:?%<:#endif
?H:?%<:#define VOIDFLAGS $voidflags
?H:?%<:#if (VOIDFLAGS & VOIDUSED) != VOIDUSED
?H:?%<:#define void int  /* is void to be avoided? */
?H:?%<:#define M_VOID   /* Xenix strikes again */
?H:?%<:#endif
?H:.
?INIT:: full support for void wanted by default
?INIT:defvoidused=15
?INIT:
?LINT:known void M_VOID VOIDUSED
: check for void type
echo " "
echo "Checking to see how well your C compiler groks the void type..." >&4
case "$voidflags" in
")
 $cat >try.c <<EOCP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#if TRY & 1
void sub() {
#else
sub() {
#endif
 extern void moo(); /* function returning void */
 void (*goo)();  /* ptr to func returning
 void */
#if TRY & 8
 void *hue;  /* generic ptr */
#endif
#if TRY & 2
 void (*foo[10])();
#endif

#if TRY & 4
 if(goo == moo) {
  exit(0);
 }
#endif
 exit(0);
}
int main() { sub(); }
EOCP
?X: This unit used to use cc -S in those tests to try to speed up things, but
```

```
?X: unfortunately, AIX 3.2 does not support this option.
 if $cc $ccflags -c -DTRY=$defvoidused try.c >.out 2>&1 ; then
  voidflags=$defvoidused
 echo "Good.  It appears to support void to the level $package wants.">&4
  if $compiler_warning .out >/dev/null 2>&1; then
   echo "However, you might get some warnings that look like this:"
   $cat .out
  fi
 else
echo "Hmm, your compiler has some difficulty with void. Checking further..." >&4
  if $cc $ccflags -c -DTRY=1 try.c >/dev/null 2>&1; then
   echo "It supports 1..."
   if $cc $ccflags -c -DTRY=3 try.c >/dev/null 2>&1; then
    echo "It also supports 2..."
    if $cc $ccflags -c -DTRY=7 try.c >/dev/null 2>&1; then
     voidflags=7
     echo "And it supports 4 but not 8
 definitely."
    else
     echo "It doesn't support 4..."
     if $cc $ccflags -c -DTRY=11 try.c >/dev/null 2>&1; then
      voidflags=11
      echo "But it supports 8."
     else
      voidflags=3
      echo "Neither does it support 8."
     fi
    fi
   else
    echo "It does not support 2..."
    if $cc $ccflags -c -DTRY=13 try.c >/dev/null 2>&1; then
     voidflags=13
     echo "But it supports 4 and 8."
    else
     if $cc $ccflags -c -DTRY=5 try.c >/dev/null 2>&1; then
      voidflags=5
      echo "And it supports 4 but has not heard about 8."
     else
      echo "However it supports 8 but not 4."
     fi
    fi
   fi
  else
   echo "There is no support at all for void."
   voidflags=0
  fi
 fi
esac
```

```
?X: Only prompt user if support does not match the level we want
case "$voidflags" in
"$defvoidused") ;;
*) $cat >&4 <<'EOM'
 Support flag bits are:
   1: basic void declarations.
   2: arrays of pointers to functions returning void.
   4: operations between pointers to and addresses
 of void functions.
   8: generic void pointers.
EOM
 dflt="$voidflags";
 rp="Your void support flags add up to what?"
 . ./myread
 voidflags="$ans"
 ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/voidflags.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: rcs_branch.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: rcs_branch.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:40  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:rcs_branch: Myread contains Loc
?MAKE: -pick add $@ %<
?S:rcs_branch:
?S: This variable will hold "true" if rcs can take the -b<revision>
?S: option, which can make Life Easier on those folks who like to run
?S: rcsdiff manually.
?S:.
?T:xxx
: Tra la la la la
echo " "
```

```
echo "Checking to see if RCS understands the -b switch..." >&4
xxx=`./loc
 rcs " $pth`
case "$xxx" in
")
 rcs_branch=false
 echo "Oh.  You don't seem to have RCS here."
 ;;
*)
 rcs > rcsbranch.out 2>&1
 if $contains 'b\[rev\]' rcsbranch.out  >/dev/null 2>&1 ; then
  rcs_branch=true
  echo "Nice!  Your RCS is spiffy!"
 else
  rcs_branch=false
 echo "Well, at least you have RCS.  You know, a newer version is available."
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/rcs_branch.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_off64_t: \
 Inlibc Setvar Compile rm_try cat lseeksize
?MAKE: -pick add $@ %<
?S:d_off64_t:
?S: This symbol will be defined if the C compiler supports off64_t.
?S:.
?C:HAS_OFF64_T:
?C: This symbol will be defined if the C compiler supports off64_t.
?C:.
?H:#$d_off64_t HAS_OFF64_T  /**/
?H:.
?LINT:set d_off64_t
: check for off64_t
echo " "
echo "Checking to see if you have off64_t..." >&4
$cat >try.c <<EOCP
```

```
#include <sys/types.h>
#include <unistd.h>
int main() { off64_t x = 7; }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have off64_t."
else
 val="$undef"
 echo "You do not have off64_t."
 case "$lseeksize" in
 8) echo "(Your off_t is 64 bits, so you could use that.)" ;;
 esac
fi
$rm_try
set
 d_off64_t
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_off64_t.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: ccflags.U,v $
?RCS: Revision 3.0.1.9  1997/02/28  15:27:07  ram
?RCS: patch61: removed support for NO_PROTOTYPE detection on SCO
?RCS: patch61: new locincpth variable
?RCS: patch61: added info on the "additional ld flags" question
?RCS:
?RCS: Revision 3.0.1.8  1995/07/25  13:48:54  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.7  1995/05/12  12:08:33  ram
?RCS: patch54: now checks for cc/ccflags/ldflags coherency
?RCS:
?RCS: Revision 3.0.1.6
```

```
  1994/10/29  16:07:02  ram
?RCS: patch36: gcc versioning no longer relies on the C compiler's name
?RCS: patch36: simplified check for gcc version checking (ADO)
?RCS:
?RCS: Revision 3.0.1.5  1994/08/29  16:06:35  ram
?RCS: patch32: propagate -posix flag from ccflags to ldflags
?RCS:
?RCS: Revision 3.0.1.4  1994/05/06  14:28:45  ram
?RCS: patch23: -fpcc-struct-return only needed in gcc 1.x (ADO)
?RCS: patch23: cppflags now computed on an option-by-option basis
?RCS: patch23: magically added cc flags now only done the first time
?RCS:
?RCS: Revision 3.0.1.3  1993/09/13  15:58:29  ram
?RCS: patch10: explicitly mention -DDEBUG just in case they need it (WAD)
?RCS: patch10: removed all the "tans" variable usage (WAD)
?RCS:
?RCS: Revision 3.0.1.2  1993/08/27  14:39:38  ram
?RCS: patch7: added support for OSF/1 machines
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:00:24  ram
?RCS: patch6: added defaults for cppflags, ccflags and ldflags
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:31  ram
?RCS:
 Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:ccflags ldflags lkflags cppflags optimize locincpth: test cat \
 Myread Guess Options Oldconfig gccversion mips_type +usrinc \
 package contains rm rm_try +cc cppstdin cppminus cpprun cpplast libpth \
 loclibpth hint
?MAKE: -pick add $@ %<
?S:ccflags:
?S: This variable contains any additional C compiler flags desired by
?S: the user.  It is up to the Makefile to use this.
?S:.
?S:cppflags:
?S: This variable holds the flags that will be passed to the C pre-
?S: processor. It is up to the Makefile to use it.
?S:.
?S:optimize:
?S: This variable contains any optimizer/debugger flag that should be used.
?S: It is up to the Makefile to use it.
?S:.
?S:ldflags:
?S: This variable contains any additional C loader flags desired by
?S: the user.  It is up to the Makefile to use this.
?S:.
?S:lkflags:
```

```
?S: This variable contains any additional C partial linker flags desired by
?S: the user.  It is up to the Makefile to use this.
?S:.
?S:locincpth:
?S: This
 variable contains a list of additional directories to be
?S: searched by the compiler.  The appropriate -I directives will
?S: be added to ccflags.  This is intended to simplify setting
?S: local directories from the Configure command line.
?S: It's not much, but it parallels the loclibpth stuff in libpth.U.
?S:.
?T:inctest thisincl xxx flag inclwanted ftry previous thislibdir
?F:!cpp.c
?D:cppflags=''
?D:ccflags=''
?D:ldflags=''
?D:optimize=''
?INIT:: Possible local include directories to search.
?INIT:: Set locincpth to "" in a hint file to defeat local include searches.
?INIT:locincpth="/usr/local/include /opt/local/include /usr/gnu/include"
?INIT:locincpth="$locincpth /opt/gnu/include /usr/GNU/include /opt/GNU/include"
?INIT::
?INIT:: no include file wanted by default
?INIT:inclwanted=''
?INIT:
: determine optimize, if desired, or use for debug flag also
case "$optimize" in
' '|$undef) dflt='none';;
'')
 case "$gccversion" in
 '') dflt='-O';;
 *) dflt='-O2 -g';;
 esac
 ;;
*)
 dflt="$optimize";;
esac
case "$gccversion" in
'') $cat <<EOH

Some C compilers have problems with their optimizers.  By default, $package
compiles with the -O flag to use the optimizer.  Alternately, you might want
to use the symbolic debugger, which uses the -g flag (on traditional Unix
systems).  Either flag can be specified here.  To use neither flag, specify
the word "none".

EOH
 ;;
```

```
*) $cat <<EOH

With the GNU C compiler, it is possible to supply both -O2 and -g flags, to
be able to reasonably optimize, whilst retaining the ability to use a
symbolic debugger.  Either flag can be specified here.  To use neither flag,
specify the word "none".

EOH
 ;;
esac
rp="What optimizer/debugger flag should be used?"
. ./myread
optimize="$ans"
case "$optimize" in
'none') optimize=" ";;
esac

dflt="
: We will not override a previous value, but we might want to
: augment a hint file
case "$hint" in
default|recommended)
 case "$gccversion" in
 1*) dflt='-fpcc-struct-return' ;;
 esac
?X:
 check for POSIXized ISC
 case "$gccversion" in
 2*) if test -d /etc/conf/kconfig.d &&
   $contains _POSIX_VERSION $usrinc/sys/unistd.h >/dev/null 2>&1
  then
   dflt="$dflt -posix"
  fi
  ;;
 esac
?X: turn warnings on if they're using gcc
 case "$gccversion" in
 1*|2*) dflt="$dflt -Wall";;
?X: starting with version 3, add "-W -Wall -Wformat=2 -Wshadow" by default
 *) dflt="$dflt -W -Wall -Wformat=2 -Wshadow";;
 esac
 ;;
esac

?X: In USG mode, a MIPS system may need some BSD includes
case "$mips_type" in
*BSD*|") inclwanted="$locincpth $usrinc";;
*) inclwanted="$locincpth $inclwanted $usrinc/bsd";;
```

```
esac
for thisincl in $inclwanted; do
 if $test -d $thisincl; then
  if $test x$thisincl != x$usrinc; then
   case "$dflt" in
   *$thisincl*);;
   *) dflt="$dflt -I$thisincl";;
   esac
  fi
 fi
done

?X: Include test function (header, symbol)
inctest='if $contains $2 $usrinc/$1 >/dev/null 2>&1; then
 xxx=true;
elif $contains $2 $usrinc/sys/$1 >/dev/null 2>&1; then
 xxx=true;
else
 xxx=false;
fi;
if
 $xxx; then
 case "$dflt" in
 *$2*);;
 *) dflt="$dflt -D$2";;
 esac;
fi'

?X:
?X: OSF/1 uses __LANGUAGE_C__ instead of LANGUAGE_C
?X:
if ./osf1; then
 set signal.h __LANGUAGE_C__; eval $inctest
else
 set signal.h LANGUAGE_C; eval $inctest
fi

case "$hint" in
default|recommended) dflt="$ccflags $dflt" ;;
*) dflt="$ccflags";;
esac

case "$dflt" in
"|' ') dflt=none;;
esac
$cat <<EOH

Your C compiler may want other flags.  For this question you should include
```

```
-I/whatever and -DWHATEVER flags and any other flags used by the C compiler,
but you should NOT include libraries or ld flags like -lwhatever.

To use no flags, specify the word "none".

EOH
?X: strip leading space
set X $dflt
shift
dflt=${1+"$@"}
rp="Any additional cc flags?"
. ./myread
case "$ans" in
none) ccflags="";;
*) ccflags="$ans";;
esac

: the following weeds options from ccflags that are of no interest to cpp
cppflags="$ccflags"
case "$gccversion" in
1*) cppflags="$cppflags -D__GNUC__"
esac
case "$mips_type" in
");;
*BSD*)
 cppflags="$cppflags -DSYSTYPE_BSD43";;
esac
case "$cppflags" in
");;
*)
 echo " "
 echo "Let me guess what the preprocessor flags are..." >&4
 set X $cppflags
 shift
 cppflags=''
 $cat >cpp.c <<'EOM'
#define BLURFL foo

BLURFL xx LFRULB
EOM
?X:
?X: For each cc flag, try it out with both cppstdin and cpprun, since the
?X: first is almost surely a cc wrapper. We have to try both in case
?X: of cc flags like '-Olimit 2900' that are actually two words...
?X:
 previous=''
 for flag in $*
 do
```

```
  case "$flag" in
  -*) ftry="$flag";;
  *) ftry="$previous $flag";;
  esac
  if $cppstdin -DLFRULB=bar $ftry $cppminus <cpp.c \
   >cpp1.out 2>/dev/null && \
   $cpprun -DLFRULB=bar $ftry $cpplast <cpp.c \
   >cpp2.out 2>/dev/null && \
   $contains 'foo.*xx.*bar' cpp1.out >/dev/null 2>&1 && \
   $contains 'foo.*xx.*bar' cpp2.out >/dev/null 2>&1
  then
   cppflags="$cppflags $ftry"
   previous=''
  else
   previous="$flag"
  fi
 done
 set X $cppflags
 shift
 cppflags=${1+"$@"}
 case "$cppflags"
 in
 *-*)  echo "They appear to be: $cppflags";;
 esac
 $rm -f cpp.c cpp?.out
 ;;
esac

: flags used in final linking phase
case "$ldflags" in
'') if ./venix; then
  dflt='-i -z'
 else
  dflt=''
 fi
 case "$ccflags" in
 *-posix*) dflt="$dflt -posix" ;;
 esac
 ;;
*) dflt="$ldflags";;
esac

: Try to guess additional flags to pick up local libraries.
for thislibdir in $libpth; do
 case " $loclibpth " in
 *" $thislibdir "*)
  case "$dflt " in
  *"-L$thislibdir "*) ;;
```

```
  *)  dflt="$dflt -L$thislibdir" ;;
  esac
  ;;
 esac
done

case "$dflt" in
") dflt='none' ;;
*) set X $dflt; shift; dflt="$@";;
esac

$cat <<EOH

Your C linker may need flags.  For this question you should
include -L/whatever and any other flags used by the C linker, but you
should NOT include libraries like -lwhatever.

Make sure you include the appropriate -L/path flags if your C linker
does not normally search all of the directories you specified above,
namely
 $libpth
To use no flags, specify the word "none".

EOH

rp="Any
 additional ld flags (NOT including libraries)?"
. ./myread
case "$ans" in
none) ldflags=";;
*) ldflags="$ans";;
esac
rmlist="$rmlist pdp11"

@if lkflags
: partial linking may need other flags
case "$lkflags" in
") case "$ldflags" in
 ") dflt='none';;
 *) dflt="$ldflags";;
 esac;;
*) dflt="$lkflags";;
esac
echo " "
rp="Partial linking flags to be used (NOT including -r)?"
. ./myread
case "$ans" in
none) lkflags=";;
```

```
*) lkflags="$ans";;
esac

@end
?X:
?X: If the user changes compilers after selecting a hint file, it's
?X: possible that the suggested ccflags/ldflags will be wrong.  Try to
?X: compile and run a simple test program.  Let the user see all the
?X: error messages. -- ADO and RAM
?X:
: coherency check
echo " "
echo "Checking your choice of C compiler and flags for coherency..." >&4
?X: Strip extra blanks in case some of the following variables are empty
set X $cc $optimize $ccflags $ldflags -o try try.c
shift
$cat >try.msg <<EOM
I've tried to compile and run a simple program
 with:

 $*
 ./try

and I got the following output:

EOM
$cat > try.c <<'EOF'
#include <stdio.h>
int main() { exit(0); }
EOF
dflt=y
?X: Use "sh -c" to avoid error messages tagged with leading "Configure:".
?X: We need to try the resulting executable, because cc might yield a 0 status
?X: even when ld failed, in which case the executable will not run properly,
?X: if its x bit is set at all...
if sh -c "$cc $optimize $ccflags $ldflags -o try try.c" >>try.msg 2>&1; then
 if sh -c './try' >>try.msg 2>&1; then
  dflt=n
 else
  echo "The program compiled OK, but exited with status $?." >>try.msg
  rp="You have a problem.  Shall I abort Configure"
  dflt=y
 fi
else
 echo "I can't compile the test program." >>try.msg
 rp="You have a BIG problem.  Shall I abort Configure"
 dflt=y
fi
```

```
case "$dflt" in
y)
 $cat try.msg >&4
?X: using -K will prevent default aborting--maybe they're cross compiling?
 case "$knowitall" in
 ")
  echo "(The supplied flags might be incorrect with this C compiler.)"
  ;;
 *)
 dflt=n;;
 esac
 echo " "
 . ./myread
 case "$ans" in
 n*|N*) ;;
 *) echo "Ok.  Stopping Configure." >&4
  exit 1
  ;;
 esac
 ;;
n) echo "OK, that should do.";;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/ccflags.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endhostent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_endhostent_r endhostent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_endhostent_r:
?S: This variable conditionally defines the HAS_ENDHOSTENT_R symbol,
?S: which indicates to the C program that the endhostent_r()
?S: routine is available.
?S:.
?S:endhostent_r_proto:
?S: This variable encodes the prototype of endhostent_r.
?S: It is zero if d_endhostent_r is undef, and one of the
```

```
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endhostent_r
?S: is defined.
?S:.
?C:HAS_ENDHOSTENT_R:
?C: This symbol, if defined, indicates that the endhostent_r routine
?C: is
 available to endhostent re-entrantly.
?C:.
?C:ENDHOSTENT_R_PROTO:
?C: This symbol encodes the prototype of endhostent_r.
?C: It is zero if d_endhostent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endhostent_r
?C: is defined.
?C:.
?H:#$d_endhostent_r HAS_ENDHOSTENT_R /**/
?H:#define ENDHOSTENT_R_PROTO $endhostent_r_proto /**/
?H:.
?T:try hdrs d_endhostent_r_proto
: see if endhostent_r exists
set endhostent_r d_endhostent_r
eval $inlibc
case "$d_endhostent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_endhostent_r_proto:$usethreads" in
 ":define") d_endhostent_r_proto=define
  set d_endhostent_r_proto endhostent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_endhostent_r_proto" in
 define)
 case "$endhostent_r_proto" in
 "|0) try='int endhostent_r(struct hostent_data*);'
 ./protochk "$extern_C $try" $hdrs && endhostent_r_proto=I_D ;;
 esac
 case "$endhostent_r_proto" in
 "|0) try='void endhostent_r(struct
 hostent_data*);'
 ./protochk "$extern_C $try" $hdrs && endhostent_r_proto=V_D ;;
 esac
 case "$endhostent_r_proto" in
 "|0) d_endhostent_r=undef
  endhostent_r_proto=0
  echo "Disabling endhostent_r, cannot determine prototype." >&4 ;;
 * ) case "$endhostent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) endhostent_r_proto="REENTRANT_PROTO_$endhostent_r_proto" ;;
```

```
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "endhostent_r has no prototype, not using it." >&4 ;;
  esac
  d_endhostent_r=undef
  endhostent_r_proto=0
  ;;
 esac
 ;;
*) endhostent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_endhostent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: mallocsrc.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:10:26  ram
?RCS: patch61: added support for Free_t, the type of free()
?RCS: patch61: replaced .o with $_o all over the place
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:10:46  ram
?RCS: patch23: added support for MYMALLOC, mainly  for perl5 (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:12  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:mallocsrc mallocobj usemymalloc malloctype d_mymalloc \
 freetype: Myread \
 Oldconfig
 package Guess Setvar rm cat +cc +ccflags Findhdr \
 i_malloc i_stdlib sed libs _o ptrsize
?MAKE: -pick add $@ %<
```

```
?X: Put near top so that other tests don't erroneously include
?X: -lmalloc.  --AD  22 June 1998
?Y:TOP
?S:usemymalloc:
?S: This variable contains y if the malloc that comes with this package
?S: is desired over the system's version of malloc.  People often include
?S: special versions of malloc for effiency, but such versions are often
?S: less portable.  See also mallocsrc and mallocobj.
?S: If this is 'y', then -lmalloc is removed from $libs.
?S:.
?S:mallocsrc:
?S: This variable contains the name of the malloc.c that comes with
?S: the package, if that malloc.c is preferred over the system malloc.
?S: Otherwise the value is null.  This variable is intended for generating
?S: Makefiles.
?S:.
?S:d_mymalloc:
?S: This variable conditionally defines MYMALLOC in case other parts
?S: of the source want to take special action if MYMALLOC is used.
?S: This may include different sorts
 of profiling or error detection.
?S:.
?S:mallocobj:
?S: This variable contains the name of the malloc.o that this package
?S: generates, if that malloc.o is preferred over the system malloc.
?S: Otherwise the value is null.  This variable is intended for generating
?S: Makefiles.  See mallocsrc.
?S:.
?S:freetype:
?S: This variable contains the return type of free().  It is usually
?S: void, but occasionally int.
?S:.
?S:malloctype:
?S: This variable contains the kind of ptr returned by malloc and realloc.
?S:.
?C:Free_t:
?C: This variable contains the return type of free().  It is usually
?C: void, but occasionally int.
?C:.
?C:Malloc_t (MALLOCPTRTYPE):
?C: This symbol is the type of pointer returned by malloc and realloc.
?C:.
?H:#define Malloc_t $malloctype   /**/
?H:#define Free_t $freetype   /**/
?H:.
?C:MYMALLOC:
?C: This symbol, if defined, indicates that we're using our own malloc.
?C:.
```

```
?H:#$d_mymalloc MYMALLOC   /**/
?H:.
?LINT:change libs
?X: Cannot test for mallocsrc; it
 is the unit's name and there is a bug in
?X: the interpreter which defines all the names, even though they are not used.
@if mallocobj
: determine which malloc to compile in
echo " "
case "$usemymalloc" in
[yY]*|true|$define) dflt='y' ;;
[nN]*|false|$undef) dflt='n' ;;
*)
 case "$ptrsize" in
 4) dflt='y' ;;
 *) dflt='n' ;;
 esac
 ;;
esac
rp="Do you wish to attempt to use the malloc that comes with $package?"
. ./myread
usemymalloc="$ans"
case "$ans" in
y*|true)
 usemymalloc='y'
 mallocsrc='malloc.c'
 mallocobj="malloc$_o"
 d_mymalloc="$define"
?X: Maybe libs.U should be dependent on mallocsrc.U, but then
?X: most packages that use dist probably don't supply their own
?X: malloc, so this is probably an o.k. comprpomise
 case "$libs" in
 *-lmalloc*)
  : Remove malloc from list of libraries to use
  echo "Removing unneeded -lmalloc from library list" >&4
  set `echo X $libs | $sed -e 's/-lmalloc / /' -e 's/-lmalloc$//'`
  shift
  libs="$*"
  echo "libs = $libs" >&4
  ;;
 esac
 ;;
*)
 usemymalloc='n'
 mallocsrc=''
 mallocobj=''
 d_mymalloc="$undef"
 ;;
```

```
esac

@end
@if
 MALLOCPTRTYPE || Malloc_t || Free_t
: compute the return types of malloc and free
echo " "
$cat >malloc.c <<END
#$i_malloc I_MALLOC
#$i_stdlib I_STDLIB
#include <stdio.h>
#include <sys/types.h>
#ifdef I_MALLOC
#include <malloc.h>
#endif
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#ifdef TRY_MALLOC
void *malloc();
#endif
#ifdef TRY_FREE
void free();
#endif
END
@if MALLOCPTRTYPE || Malloc_t
case "$malloctype" in
")
 if $cc $ccflags -c -DTRY_MALLOC malloc.c >/dev/null 2>&1; then
  malloctype='void *'
 else
  malloctype='char *'
 fi
 ;;
esac
echo "Your system wants malloc to return '$malloctype', it would seem." >&4
@end

@if Free_t
case "$freetype" in
")
 if $cc $ccflags -c -DTRY_FREE malloc.c >/dev/null 2>&1; then
  freetype='void'
 else
  freetype='int'
 fi
 ;;
esac
```

```
echo "Your system uses $freetype free(), it would seem." >&4
@end
$rm -f malloc.[co]
@end
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/mallocsrc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setpwent.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_setpwent.U,v $
?RCS:
?MAKE:d_setpwent: Inlibc
?MAKE: -pick add $@ %<
?S:d_setpwent:
?S: This variable conditionally defines the HAS_SETPWENT symbol, which
?S: indicates to the C program that the setpwent() routine is available
?S: for initializing sequential access to the passwd database.
?S:.
?C:HAS_SETPWENT:
?C: This symbol, if defined, indicates that the setpwent routine is
?C: available for initializing sequential access of the passwd database.
?C:.
?H:#$d_setpwent HAS_SETPWENT  /**/
?H:.
?LINT:set d_setpwent
: see if setpwent exists
set setpwent d_setpwent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_setpwent.U
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```
?RCS: $Id: d_ctermid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_ctermid.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_ctermid: Inlibc
?MAKE: -pick add $@ %<
?S:d_ctermid:
?S: This variable conditionally defines CTERMID if ctermid() is
?S: available to generate filename for terminal.
?S:.
?C:HAS_CTERMID (CTERMID):
?C: This symbol, if defined, indicates that the ctermid routine is
?C: available to generate filename for terminal.
?C:.
?H:#$d_ctermid
 HAS_CTERMID  /**/
?H:.
?LINT:set d_ctermid
: see if ctermid exists
set ctermid d_ctermid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_ctermid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:selectminbits: Compile cat rm_try Oldconfig d_select \
 i_time i_systime i_systimek i_sysselct selecttype d_socket \
 byteorder Myread Setvar run i_stdlib ptrsize
?MAKE: -pick add $@ %<
?S:selectminbits:
?S: This variable holds the minimum number of bits operated by select.
?S: That is, if you do select(n, ...), how many bits at least will be
```

```
?S: cleared in the masks if some activity is detected.  Usually this
?S: is either n or 32*ceil(n/32), especially many little-endians do
?S: the latter.  This is only useful if
 you have select(), naturally.
?S:.
?C:SELECT_MIN_BITS:
?C: This symbol holds the minimum number of bits operated by select.
?C: That is, if you do select(n, ...), how many bits at least will be
?C: cleared in the masks if some activity is detected.  Usually this
?C: is either n or 32*ceil(n/32), especially many little-endians do
?C: the latter.  This is only useful if you have select(), naturally.
?C:.
?H:#define SELECT_MIN_BITS $selectminbits /**/
?H:.
?T:bits
?T:safebits
?F:!try
: check for the select 'width'
case "$selectminbits" in
") safebits=`expr $ptrsize \* 8`
   case "$d_select" in
 $define)
  $cat <<EOM

Checking to see on how many bits at a time your select() operates...
EOM
  $cat >try.c <<EOCP
#include <sys/types.h>
#$i_time I_TIME
#$i_systime I_SYS_TIME
#$i_systimek I_SYS_TIME_KERNEL
#ifdef I_TIME
#   include <time.h>
#endif
#ifdef I_SYS_TIME
#   ifdef I_SYS_TIME_KERNEL
# define KERNEL
#   endif
#   include <sys/time.h>
#   ifdef I_SYS_TIME_KERNEL
# undef KERNEL
#   endif
#endif
#$i_sysselct
 I_SYS_SELECT
#ifdef I_SYS_SELECT
#include <sys/select.h>
#endif
```

```
#$d_socket HAS_SOCKET
#ifdef HAS_SOCKET
#   include <sys/socket.h> /* Might include <sys/bsdtypes.h> */
#endif
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
$selecttype b;
#define S sizeof(*(b))
#define MINBITS 64
#define NBYTES (S * 8 > MINBITS ? S : MINBITS/8)
#define NBITS  (NBYTES * 8)
int main() {
   char *s = (char *)malloc(NBYTES);
   struct timeval t;
   int i;
   FILE* fp;
   int fd;

   if (!s)
 exit(1);
   fclose(stdin);
   fp = fopen("try.c", "r");
   if (fp == 0)
     exit(2);
   fd = fileno(fp);
   if (fd < 0)
     exit(3);
   b = ($selecttype)s;
   for (i = 0; i < NBITS; i++)
 FD_SET(i, b);
   t.tv_sec  = 0;
   t.tv_usec = 0;
   select(fd + 1, b, 0, 0, &t);
   for (i = NBITS - 1; i > fd && FD_ISSET(i, b); i--);
   free(s);
   printf("%d\n", i + 1);
   return 0;
}
EOCP
  set try
  if eval $compile_ok; then
   selectminbits=`$run
 ./try 2>/dev/null`
   case "$selectminbits" in
   ") cat >&4 <<EOM
```

```
Cannot figure out on how many bits at a time your select() operates.
I'll play safe and guess it is $safebits bits.
EOM
    selectminbits=$safebits
    bits="$safebits bits"
    ;;
   1) bits="1 bit" ;;
   *) bits="$selectminbits bits" ;;
   esac
   echo "Your select() operates on $bits at a time." >&4
  else
   rp='What is the minimum number of bits your select() operates on?'
   case "$byteorder" in
   12345678) dflt=64 ;;
   1234)  dflt=32 ;;
   *)  dflt=1 ;;
   esac
   . ./myread
   val=$ans
   selectminbits="$val"
  fi
  $rm_try
  ;;
 *) : no select, so pick a harmless default
  selectminbits=$safebits
  ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/selectminbits.U
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```
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?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
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?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS:
?X:
?X: This unit is just a quick shorthand for the compile command
?X: to be used in all the other metaconfig units.
?X:
?MAKE:Compile: +cc +optimize +ccflags +ldflags +libs
?MAKE: -pick add $@ %<
?LINT:define compile compile_ok
?V:compile compile_ok mc_file
?S:compile:
?S: This shell variable is used internally
 by Configure to provide
?S: a convenient shorthand for the typical compile command, namely
?S: $cc $optimize $ccflags $ldflags -o $1 $1.c $libs > /dev/null 2>&1
?S: Note that the output filename does _not_ include the _exe
?S: extension.  Instead we assume that the linker will be
?S: "helpful" and automatically appending the correct suffix.
?S: OS/2 users will apparently need to supply the -Zexe flag to
?S: get this behavior.
?S:
?S: To use this variable, say something like:
?S:  echo 'int main() { exit(0); }' > try.c
?S:  set try
?S:  if eval $compile; then
?S:   echo "success"   # and do whatever . . .
?S:  else
?S:   echo "failure"   # and do whatever . . .
?S:  fi
?S: To add extra flags cc flags (e.g. -DWHATEVER) just put them
?S: in $*, e.g.
?S:  set try -DTRY_THIS_FLAG
?S:.
?S:compile_ok:
?S: This shell variable is used internally by Configure to provide
?S: a convenient shorthand for the typical compile command that you
?S: expect to work ok.  It is the same as $compile,
 except we
?S: deliberately let the user see any error messages.
?S:.
: define a shorthand compile call
compile='
mc_file=$1;
shift;
$cc -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs > /dev/null 2>&1;'
: define a shorthand compile call for compilations that should be ok.
compile_ok='
```

```
mc_file=$1;
shift;
$cc -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs;'
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Compile.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Tr.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  18:00:54  ram
?RCS: patch43: forgot to quote $@ to protect against "evil" characters
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:58:35  ram
?RCS: patch36: created
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to do a character translation. It catches translations to uppercase or
?X: to lowercase, and then invokes the real tr to perform the job.
?X:
?X: This unit is necessary on HP machines (HP strikes again!)
 with non-ascii
?X: ROMAN8-charset, where normal letters are not arranged in a row, so a-z
?X: covers not the whole alphabet but lots of special chars. This was reported
?X: by Andreas Sahlbach <a.sahlbach@tu-bs.de>.
?X:
?X: Units performing a tr '[A-Z]' '[a-z]' or the other way round should include
?X: us in their dependency and use ./tr instead.
?X:
?MAKE:Tr: startsh tr eunicefix
?MAKE: -pick add $@ %<
?F:./tr
?T:up low LC_ALL
: see whether [:lower:] and [:upper:] are supported character classes
echo " "
case "`echo AbyZ | LC_ALL=C $tr '[:lower:]' '[:upper:]' 2>/dev/null`" in
ABYZ)
```

```
 echo "Good, your tr supports [:lower:] and [:upper:] to convert case." >&4
 up='[:upper:]'
 low='[:lower:]'
 ;;
*) # There is a discontinuity in EBCDIC between 'I' and 'J'
       # (0xc9 and 0xd1), therefore that is a nice testing point.
       if test "X$up" = X -o "X$low" = X; then
     case "`echo IJ | LC_ALL=C $tr '[I-J]' '[i-j]' 2>/dev/null`" in
     ij) up='[A-Z]'
         low='[a-z]'
  ;;

 esac
       fi
 if test "X$up" = X -o "X$low" = X; then
     case "`echo IJ | LC_ALL=C $tr I-J i-j 2>/dev/null`" in
     ij) up='A-Z'
  low='a-z'
  ;;
     esac
       fi
 if test "X$up" = X -o "X$low" = X; then
     case "`echo IJ | od -x 2>/dev/null`" in
     *C9D1*|*c9d1*)
  echo "Hey, this might be EBCDIC." >&4
  if test "X$up" = X -o "X$low" = X; then
      case "`echo IJ | \
    LC_ALL=C $tr '[A-IJ-RS-Z]' '[a-ij-rs-z]' 2>/dev/null`" in
      ij) up='[A-IJ-RS-Z]'
          low='[a-ij-rs-z]'
   ;;
      esac
  fi
  if test "X$up" = X -o "X$low" = X; then
      case "`echo IJ | LC_ALL=C $tr A-IJ-RS-Z a-ij-rs-z 2>/dev/null`" in
      ij) up='A-IJ-RS-Z'
          low='a-ij-rs-z'
   ;;
      esac
  fi
  ;;
     esac
 fi
esac
case "`echo IJ | LC_ALL=C $tr \"$up\" \"$low\" 2>/dev/null`" in
ij)
   echo "Using $up and $low to convert case." >&4
   ;;
```

```
*)
   echo "I don't know how to translate letters from upper to lower case." >&4
   echo "Your tr is not acting any way I know of." >&4
    exit 1
   ;;
esac
: set up the translation script tr, must be called with ./tr of course
cat >tr <<EOSC
$startsh
case "\$1\$2" in
'[A-Z][a-z]') LC_ALL=C exec $tr '$up' '$low';;
'[a-z][A-Z]') LC_ALL=C exec $tr '$low' '$up';;
esac
LC_ALL=C exec $tr "\$@"
EOSC
chmod +x tr
$eunicefix tr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Tr.U
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```
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sgndchr.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:44:25  ram
?RCS: patch61: added a ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  14:00:24  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:16  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sgndchr: cat rm +cc +ccflags Setvar
?MAKE: -pick add $@ %<
?S:d_sgndchr:
?S: This variable conditionally defines the SIGNEDCHAR symbol, which
?S: indicates to the C program
```

```
 that signed characters are available.
?S:.
?C:SIGNEDCHAR:
?C: This symbol, if defined, indicates that characters are a signed type.
?C: If not defined, things declared as signed characters (and that make
?C: use of negative values) should probably be declared as shorts instead.
?C:.
?H:#$d_sgndchr SIGNEDCHAR /**/
?H:.
?F:!try
?LINT:set d_sgndchr
: check for signed chars
echo " "
echo "Checking to see if your C compiler can do signed chars..." >&4
$cat >try.c <<'EOCP'
int main()
{
 char c = 0;

 c--;
 exit(c >= 0);
}
EOCP
$cc $ccflags -o try try.c
if ./try; then
 val="$define"
 echo "It certainly can."
else
 val="$undef"
 echo "It can't.  I'll have to make some things type short."
fi
set d_sgndchr
eval $setvar
$rm -f try*
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sgndchr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_vprintf.U,v 3.0 1993/08/18 12:07:59 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_vprintf.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:59  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_vprintf d_charvspr: Compile Guess cat Csym Setvar run rm_try \
 i_stdlib i_unistd i_stdarg i_varargs
?MAKE: -pick add $@ %<
?S:d_vprintf:
?S: This variable conditionally defines the HAS_VPRINTF symbol, which
?S: indicates to the C program that the vprintf() routine is available
?S: to printf with a pointer to an argument list.
?S:.
?S:d_charvspr:
?S: This
 variable conditionally defines CHARVSPRINTF if this system
?S: has vsprintf returning type (char*).  The trend seems to be to
?S: declare it as "int vsprintf()".
?S:.
?C:HAS_VPRINTF (VPRINTF):
?C: This symbol, if defined, indicates that the vprintf routine is available
?C: to printf with a pointer to an argument list.  If unavailable, you
?C: may need to write your own, probably in terms of _doprnt().
?C:.
?C:USE_CHAR_VSPRINTF (CHARVSPRINTF):
?C: This symbol is defined if this system has vsprintf() returning type
?C: (char*).  The trend seems to be to declare it as "int vsprintf()".  It
?C: is up to the package author to declare vsprintf correctly based on the
?C: symbol.
?C:.
?H:#$d_vprintf HAS_VPRINTF /**/
?H:#$d_charvspr USE_CHAR_VSPRINTF /**/
?H:.
?T:val2
?F:!try
?LINT:set d_vprintf d_charvspr
: see if vprintf exists
echo " "
if set vprintf val -f d_vprintf; eval $csym; $val; then
 echo 'vprintf() found.' >&4
 val="$define"
 $cat >try.c <<EOF
#$i_stdarg I_STDARG  /*
 Only one of these can be defined by i_varhrd */
#$i_varargs I_VARARGS

#$i_stdlib I_STDLIB
```

```
#$i_unistd I_UNISTD

#ifdef I_STDARG
#  include <stdarg.h>
#else /* I_VARARGS */
#  include <varargs.h>
#endif

#ifdef I_UNISTD
#  include <unistd.h>
#endif

#ifdef I_STDLIB
#  include <stdlib.h>
#endif

#include <stdio.h> /* vsprintf prototype */

#ifdef I_STDARG
void xxx(int n, ...)
{
   va_list args;
   char buf[10];
   va_start(args, n);
   exit((unsigned long)vsprintf(buf,"%s",args) > 10L);
}
int main() { xxx(1, "foo"); }

#else /* I_VARARGS */

xxx(va_alist)
va_dcl
{
   va_list args;
   char buf[10];
   va_start(args);
   exit((unsigned long)vsprintf(buf,"%s",args) > 10L);
}
int main() { xxx("foo"); }

#endif

EOF
 set try
 if eval $compile_ok; then
  if $run ./try; then
   echo "Your vsprintf() returns (int)." >&4
   val2="$undef"
```

```
  else
   echo "Your vsprintf() returns (char*)." >&4
   val2="$define"
  fi
 else
  echo 'I am unable to compile the vsprintf() test program.' >&4
  #
 We shouldn't get here.  If we do, assume the standard signature,
  # not the old BSD one.
  echo 'Guessing that vsprintf() returns (int).' >&4
  val2="$undef"
 fi
else
 echo 'vprintf() NOT found.' >&4
 val="$undef"
 val2="$undef"
fi
$rm_try
set d_vprintf
eval $setvar
val=$val2
set d_charvspr
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_vprintf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_shadow.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_shadow: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_shadow:
?S: This variable conditionally defines the I_SHADOW symbol, and indicates
?S: whether a C program should include <shadow.h>.
?S:.
?C:I_SHADOW:
?C: This symbol, if defined, indicates that <shadow.h> exists and
?C: should be included.
?C:.
?H:#$i_shadow I_SHADOW  /**/
?H:.
```

```
?LINT:set i_shadow
: see if this is a shadow.h system
set shadow.h i_shadow
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_shadow.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_ndbm.U,v $
?RCS: Revision 3.0.1.1  1995/05/12  12:16:53  ram
?RCS: patch54: made more robust by checking both header and lib (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:23  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_ndbm: Inhdr Inlibc Setvar
?MAKE: -pick add $@ %<
?S:i_ndbm (d_ndbm):
?S: This variable conditionally defines the I_NDBM symbol, which
?S: indicates to the C program that <ndbm.h> exists and should
?S: be included.
?S:.
?C:I_NDBM (HAS_NDBM NDBM):
?C: This
 symbol, if defined, indicates that <ndbm.h> exists and should
?C: be included.
?C:.
?H:#$i_ndbm I_NDBM /**/
?H:.
?T:t_ndbm d_dbm_open
?LINT:set i_ndbm
: see if ndbm.h is available
?X: t_ndbm is a tentative check.  We might just have the .h, not the lib -- ADO
set ndbm.h t_ndbm
eval $inhdr
case "$t_ndbm" in
```

```
$define)
 : see if dbm_open exists
 set dbm_open d_dbm_open
 eval $inlibc
 case "$d_dbm_open" in
 $undef)
  t_ndbm="$undef"
  echo "We won't be including <ndbm.h>"
  ;;
 esac
 ;;
esac
val="$t_ndbm"
set i_ndbm
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_ndbm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_havetlib.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_havetlib.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:36:31  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: likewise for .o replaced by $_o
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:44:06  ram
?RCS: patch23: added AIX support to accept shared lib stub as termlib (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_havetlib termlib: cat contains Myread Loc
 Filexp Oldconfig libpth \
 test uname _a _o
?MAKE: -pick add $@ %<
?S:d_havetlib:
?S: This variable conditionally defines the HAS_TERMLIB symbol, which
```

```
?S: indicates to the C program that termlib-style routines are available.
?S:.
?S:termlib:
?S: This variable contains the argument to pass to the loader to get
?S: termlib-style routines.  It is up to the Makefile.SH to make sure
?S: the value gets to the right command.  Note that on many systems the
?S: termlib routines are emulated by the curses or terminfo library.
?S:.
?C:HAS_TERMLIB (HAVETERMLIB):
?C: This symbol, when defined, indicates that termlib-style routines
?C: are available.  There is nothing to include.
?C:.
?H:#$d_havetlib HAS_TERMLIB /**/
?H:.
?T:xxx
: where do we get termlib routines from
echo " "
xxx=`./loc libcurses$_a x $libpth`
case "$xxx" in
/*)
 ar t $xxx >grimble
 if $contains tputs$_o grimble >/dev/null 2>&1; then
  termlib='-lcurses'
  d_havetlib="$define"
  echo "Terminfo library found." >&4
 elif $test "x`$uname
 2>/dev/null`" = xAIX; then
  # Ok, do the AIX shr.o fun thing
  /usr/ccs/bin/nm -en $xxx 2>/dev/null >grimble
  if $contains '^tputs .*|extern|' grimble >/dev/null 2>&1; then
   termlib='-lcurses'
   d_havetlib="$define"
   echo "AIX Terminfo library found." >&4
  else
   xxx=x
  fi
 else
  xxx=x
 fi
 rm -f grimble
 ;;
esac
case "$xxx" in
x)
 xxx=`./loc libtermlib$_a x $libpth`
 case "$xxx" in
 /usr/lib*|/lib*)
  termlib='-ltermlib'
```

```
  d_havetlib="$define"
  echo "Termlib library found." >&4
  ;;
 /*)
  termlib="$xxx"
  d_havetlib="$define"
  echo "Termlib library found." >&4
  ;;
 *)
  xxx=`./loc libtermcap$_a x $libpth`
  case "$xxx" in
  /usr/lib*|/lib*)
   termlib='-ltermcap'
   d_havetlib="$define"
   echo "Termcap library found." >&4
   ;;
  /*)
   termlib="$xxx"
   d_havetlib="$define"
   echo "Termcap library found." >&4
   ;;
  *)
   case "$termlib" in
   ")
    dflt=y
rp="Your system appears to NOT have termlib-style routines. Is this true?"
    . ./myread
    case "$ans"
 in
    n*|f*) d_havetlib="$define"
     $cat <<'EOM'
Then where are the termlib-style routines kept? Specify either -llibname
or a full pathname (~name ok).

EOM
     dflt="
     rp='Specify termlib path:'
     . ./myread
     termlib=`./filexp $ans`
     ;;
    *)
     d_havetlib="$undef"
     termlib="
     echo "You will have to play around with term.c then." >&4
     ;;
    esac
   echo " ";;
   *)  echo "You said termlib was $termlib before." >&4;;
```

```
   esac;;
  esac;;
 esac;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_havetlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_semop.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_semop.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_semop: Inlibc
?MAKE: -pick add $@ %<
?S:d_semop:
?S: This variable conditionally defines the HAS_SEMOP symbol, which
?S: indicates to the C program that the semop() routine is available.
?S:.
?C:HAS_SEMOP:
?C: This symbol, if defined, indicates that the semop() routine is
?C: available to execute semaphore operations.
?C:.
?H:#$d_semop
 HAS_SEMOP  /**/
?H:.
?LINT:set d_semop
: see if semop exists
set semop d_semop
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_semop.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_syscall.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_syscall.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_syscall: Inlibc
?MAKE: -pick add $@ %<
?S:d_syscall:
?S: This variable conditionally defines HAS_SYSCALL if syscall() is
?S: available call arbitrary system calls.
?S:.
?C:HAS_SYSCALL (SYSCALL):
?C: This symbol, if defined, indicates that the syscall routine is
?C: available to call arbitrary system calls. If undefined, that's tough.
?C:.
?H:#$d_syscall
 HAS_SYSCALL /**/
?H:.
?LINT:set d_syscall
: see if syscall exists
set syscall d_syscall
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_syscall.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_portable.U,v 3.0.1.2 1995/01/11 15:28:52 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_portable.U,v $
```

```
?RCS: Revision 3.0.1.2  1995/01/11  15:28:52  ram
?RCS: patch45: executable path stripping moved to the end in Config_sh.U
?RCS:
?RCS: Revision 3.0.1.1  1993/12/15  08:21:17  ram
?RCS: patch15: did not strip variables properly when needed
?RCS: patch15: now also strips down variables from trylist
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
   This is the same as the dist version, except I don't bother
?X:   prompting people since it makes no difference for perl5,
?X:   and only confuses people.
?X:
?X: The Loc unit is wanted to get the definition of all the locating variables.
?X:
?MAKE:d_portable: Loc Oldconfig
?MAKE: -pick add $@ %<
?S:d_portable:
?S: This variable conditionally defines the PORTABLE symbol, which
?S: indicates to the C program that it should not assume that it is
?S: running on the machine it was compiled on.
?S:.
?C:PORTABLE:
?C: This symbol, if defined, indicates to the C program that it should
?C: not assume that it is running on the machine it was compiled on.
?C: The program should be prepared to look up the host name, translate
?C: generic filenames, use PATH, etc.
?C:.
?H:#$d_portable PORTABLE /**/
?H:.
?D:d_portable="
: decide how portable to be.  Allow command line overrides.
case "$d_portable" in
"$undef") ;;
*) d_portable="$define" ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_portable.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_msgrcv.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
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?RCS: You may reuse parts of this distribution only within the terms of
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msgrcv.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:40  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_msgrcv: Inlibc
?MAKE: -pick add $@ %<
?S:d_msgrcv:
?S: This variable conditionally defines the HAS_MSGRCV symbol, which
?S: indicates to the C program that the msgrcv() routine is available.
?S:.
?C:HAS_MSGRCV:
?C: This symbol, if defined, indicates that the msgrcv() routine is
?C: available to extract a message from the message queue.
?C:.
?H:#$d_msgrcv
 HAS_MSGRCV  /**/
?H:.
?LINT:set d_msgrcv
: see if msgrcv exists
set msgrcv d_msgrcv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_msgrcv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2009 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_inetntop: Inlibc
?MAKE: -pick add $@ %<
?S:d_inetntop:
?S: This variable conditionally defines the HAS_INETNTOP symbol,
?S: which indicates to the C program that the inet_ntop() function
?S: is available.
?S:.
?C:HAS_INETNTOP:
```

```
?C: This symbol, if defined, indicates that the inet_ntop() function
?C: is available to parse IPv4 and IPv6 strings.
?C:.
?H:#$d_inetntop HAS_INETNTOP  /**/
?H:.
?LINT:set d_inetntop
: see if inet_ntop exists
set inet_ntop d_inetntop
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_inetntop.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sigvec.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sigvec.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:45:37  ram
?RCS: patch61: there is now a separate routine for sigaction()
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X: d_sigvec.U, from d_ftime.U 1.0
?X:
?MAKE:d_sigvec d_sigvectr d_sigintrp: Csym Inlibc Setvar
?MAKE: -pick add $@ %<
?S:d_sigvec:
?S: This variable conditionally defines the HAS_SIGVEC symbol, which indicates
?S: that BSD
 reliable signals are supported.
?S:.
?S:d_sigvectr:
?S: This variable conditionally defines the HAS_SIGVECTOR symbol, which
?S: indicates that the sigvec() routine is called sigvector() instead, for
?S: reasons known only to Hewlett-Packard.
?S:.
?S:d_sigintrp:
?S: This variable conditionally defines the HAS_SIGINTRP symbol, which
```

```
?S: indicates that the siginterrupt() routine is available.
?S:.
?C:HAS_SIGVEC (SIGVEC):
?C: This symbol, if defined, indicates that BSD reliable signals are
?C: supported.
?C:.
?C:HAS_SIGVECTOR (SIGVECTOR):
?C: This symbol, if defined, indicates that the sigvec() routine is called
?C: sigvector() instead, and that sigspace() is provided instead of
?C: sigstack().  This is probably only true for HP-UX.
?C:.
?C:HAS_SIGINTRP (SIGINTRP):
?C: This symbol, if defined, indicates that the siginterrupt() routine
?C: is available.
?C:.
?H:#$d_sigvec HAS_SIGVEC /**/
?H:#$d_sigvectr HAS_SIGVECTOR /**/
?H:#$d_sigintrp HAS_SIGINTRP /**/
?H:.
?T:val
?LINT:set d_sigvec d_sigintrp
@if
 d_sigvectr || d_sigvec || HAS_SIGVEC || HAS_SIGVECTOR
: see if sigvector exists -- since sigvec will match the substring
echo " "
if set sigvector val -f d_sigvectr; eval $csym; $val; then
 echo 'sigvector() found--you must be running HP-UX.' >&4
 val="$define"; set d_sigvectr; eval $setvar
 val="$define"; set d_sigvec; eval $setvar
else
: try the original name
 d_sigvectr="$undef"
 if set sigvec val -f d_sigvec; eval $csym; $val; then
  echo 'sigvec() found.' >&4
  val="$define"; set d_sigvec; eval $setvar
 else
  echo 'sigvec() not found--race conditions with signals may occur.' >&4
  val="$undef"; set d_sigvec; eval $setvar
 fi
fi

@end
@if d_sigintrp || HAS_SIGINTRP
: see if we have siginterrupt
set siginterrupt d_sigintrp
eval $inlibc

@end
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sigvec.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Warn_v7ND.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Warn_v7ND.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:01:46  ram
?RCS: patch36: call ./v7 explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:18  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit warns V7 sites that they may not have a non-blocking read.
?X: This unit needs to be mentioned in End.U to get included.
?X:
?MAKE:Warn_v7ND: package Guess
?MAKE: -pick add $@ %<
: Warnings
if ./v7; then
 cat
 <<EOM

NOTE: many V7 systems do not have a way to do a non-blocking read.  If you
don't have any of FIONREAD, O_NDELAY, or rdchk(), the $package package
may not work as well as it might.  It might not work at all.
EOM
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Warn_v7ND.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996,1998 Andy Dougherty
```

```
?RCS: Copyright (c) 1996, Sven Verdoolaege
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_gnulibc gnulibc_version: Myread Oldconfig Setvar rm_try \
 cat Compile run
?MAKE: -pick add $@ %<
?S:d_gnulibc:
?S: Defined if we're dealing with the GNU C Library.
?S:.
?S:gnulibc_version:
?S: This variable contains the version number of the GNU C library.
?S: It is usually something like '2.2.5'.  It is a plain '' if this
?S: is not the GNU C library, or if the version is unknown.
?S:.
?C:HAS_GNULIBC ~ %<:
?C: This
 symbol, if defined, indicates to the C program that
?C: the GNU C library is being used.  A better check is to use
?C: the __GLIBC__ and __GLIBC_MINOR__ symbols supplied with glibc.
?C:.
?H:?%<:#$d_gnulibc HAS_GNULIBC   /**/
?H:?%<:#if defined(HAS_GNULIBC) && !defined(_GNU_SOURCE)
?H:?%<:#define _GNU_SOURCE
?H:?%<:#endif
?H:.
?F:!glibc.ver !try.c !try
?LINT: set d_gnulibc
?LINT: usefile try.c
?LINT: known _GNU_SOURCE
?X: gnulibc can be executed by calling __libc_main().
?X: Ulrich Drepper doesn't think any other libc does that,
?X: but we check if it says 'GNU C Library' to be sure.
?X:
?X: Alas, as of 3/1998 glibc 2.0.7 reportedly isn't going to
?X: have __libc_main() anymore. :-(.  Fortunately, all released
?X: versions of glibc 2.x.x _do_ have CPP variables.  For 2.0.6,
?X: they are:
?X: #define __GLIBC__  2
?X: #define__GLIBC_MINOR__ 0.
?X: (The '6' isn't available :-(.
?X: glibc2.1 will also have
?X:  extern const char * __gnu_get_libc_release(void);
```

```
?X:  extern const char *
 __gnu_get_libc_version(void);
?X: functions.   --thanks to Andreas Jaeger.   --AD  6/1998.
?X: Although the exact format isn't documented, __gnu_get_libc_version()
?X: returns a simple string '2.1.3' in glibc 2.1.3.
?X:
: determine whether we are using a GNU C library
echo " "
echo "Checking for GNU C Library..." >&4
cat >try.c <<'EOCP'
/* Find out version of GNU C library.  __GLIBC__ and __GLIBC_MINOR__
  alone are insufficient to distinguish different versions, such as
  2.0.6 and 2.0.7.  The function gnu_get_libc_version() appeared in
  libc version 2.1.0.      A. Dougherty,  June 3, 2002.
*/
#include <stdio.h>
int main(void)
{
#ifdef __GLIBC__
#   ifdef __GLIBC_MINOR__
#       if __GLIBC__ >= 2 && __GLIBC_MINOR__ >= 1
#           include <gnu/libc-version.h>
     printf("%s\n",  gnu_get_libc_version());
#       else
     printf("%d.%d\n",  __GLIBC__, __GLIBC_MINOR__);
#       endif
#   else
 printf("%d\n",  __GLIBC__);
#   endif
   return 0;
#else
   return 1;
#endif
}
EOCP
set
 try
if eval $compile_ok && $run ./try > glibc.ver; then
 val="$define"
 gnulibc_version=`$cat glibc.ver`
 echo "You are using the GNU C Library version $gnulibc_version"
else
 val="$undef"
 gnulibc_version=''
 echo "You are not using the GNU C Library"
fi
$rm_try glibc.ver
set d_gnulibc
```

```
eval $setvar

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_gnulibc.U
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_c99_variadic_macros: Compile Setvar cat rm_try run
?MAKE: -pick add $@ %<
?S:d_c99_variadic_macros:
?S: This variable conditionally defines the HAS_C99_VARIADIC_MACROS
?S: symbol, which indicates to the C program that C99 variadic macros
?S: are available.
?S:.
?C:HAS_C99_VARIADIC_MACROS:
?C: If defined, the compiler supports C99 variadic macros.
?C:.
?H:#$d_c99_variadic_macros HAS_C99_VARIADIC_MACROS /**/
?H:.
?F:!try
: see if the Compiler supports C99 variadic macros
echo "Checking for C99 variadic macros." >&4
$cat >try.c <<EOCP
#include
 <stdio.h>
#include <stdarg.h>

#define foo(buffer, format, ...) sprintf(buffer, format, __VA_ARGS__)

int main() {
 char buf[20];
 foo(buf, "%d %g %.*s", 123, 456.0, (int)3, "789fail");
 puts(buf);
 return 0;
}
EOCP
set try
if eval $compile && $run ./try 2>&1 >/dev/null; then
   case "`$run ./try`" in
 "123 456 789")
```

```
 echo "You have C99 variadic macros." >&4
 d_c99_variadic_macros="$define"
 ;;
 *)
 echo "You don't have functional C99 variadic macros." >&4
 d_c99_variadic_macros="$undef"
 ;;
   esac
else
   echo "I couldn't compile and run the test program, so I assume that you don't have functional C99 variadic
macros." >&4
   d_c99_variadic_macros="$undef"
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_c99_variadic.U
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```
?RCS: $Id: d_setpgid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setpgid.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:41:49  ram
?RCS: patch61: reworded symbol comments
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:06:40  ram
?RCS: patch16: created
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setpgid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setpgid:
?S: This variable conditionally defines the HAS_SETPGID symbol if the
?S: setpgid(pid, gpid) function is
 available to set process group ID.
?S:.
?C:HAS_SETPGID:
```

```
?C: This symbol, if defined, indicates that the setpgid(pid, gpid)
?C: routine is available to set process group ID.
?C:.
?H:#$d_setpgid HAS_SETPGID /**/
?H:.
?LINT:set d_setpgid
: see if setpgid exists
set setpgid d_setpgid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setpgid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_dirent.U,v $
?RCS: Revision 3.0.1.4  1994/10/29  16:20:01  ram
?RCS: patch36: failed scanning for 'd_namlen' with missing <dirent.h> (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:01:25  ram
?RCS: patch30: added direntrytype for hints, merely for NeXT (ADO)
?RCS: patch30: now checks for both struct dirent and direct (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:22:37  ram
?RCS: patch27: new variable direntrytype for proper type setting (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24
 14:11:15  ram
?RCS: patch16: added new Direntry_t pseudo-type for directory entries
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit looks whether there is a dirent system or not
?X:
?MAKE:i_dirent d_dirnamlen direntrytype: test contains Setvar \
 Myread Findhdr cppstdin cppflags cppminus rm_try
```

```
?MAKE: -pick add $@ %<
?S:i_dirent:
?S: This variable conditionally defines I_DIRENT, which indicates
?S: to the C program that it should include <dirent.h>.
?S:.
?S:d_dirnamlen:
?S: This variable conditionally defines DIRNAMLEN, which indicates
?S: to the C program that the length of directory entry names is
?S: provided by a d_namelen field.
?S:.
?S:direntrytype:
?S: This symbol is set to 'struct direct' or 'struct dirent' depending on
?S: whether dirent is available or not. You should use this pseudo type to
?S: portably declare your directory entries.
?S:.
?C:I_DIRENT:
?C: This symbol, if defined, indicates to the C program
 that it should
?C: include <dirent.h>. Using this symbol also triggers the definition
?C: of the Direntry_t define which ends up being 'struct dirent' or
?C: 'struct direct' depending on the availability of <dirent.h>.
?C:.
?C:DIRNAMLEN:
?C: This symbol, if defined, indicates to the C program that the length
?C: of directory entry names is provided by a d_namlen field.  Otherwise
?C: you need to do strlen() on the d_name field.
?C:.
?C:Direntry_t:
?C: This symbol is set to 'struct direct' or 'struct dirent' depending on
?C: whether dirent is available or not. You should use this pseudo type to
?C: portably declare your directory entries.
?C:.
?H:#$i_dirent I_DIRENT  /**/
?H:#$d_dirnamlen DIRNAMLEN /**/
?H:?%<:@if I_DIRENT && Direntry_t
?H:?%<:#define Direntry_t $direntrytype
?H:?%<:@end
?H:.
?T:xinc guess1 guess2
?LINT:set i_dirent d_dirnamlen
: see if this is a dirent system
echo " "
if xinc=`./findhdr dirent.h`; $test "$xinc"; then
 val="$define"
 echo "<dirent.h> found." >&4
else
 val="$undef"
 if
```

```
 xinc=`./findhdr sys/dir.h`; $test "$xinc"; then
  echo "<sys/dir.h> found." >&4
  echo " "
 else
  xinc=`./findhdr sys/ndir.h`
 fi
 echo "<dirent.h> NOT found." >&4
fi
set i_dirent
eval $setvar

?X: Use struct dirent or struct direct?   If we're using dirent.h,
?X: it's probably struct dirent, but apparently not always.
?X: Assume $xinc still contains the name of the header file we're using.
@if direntrytype || Direntry_t
: Look for type of directory structure.
echo " "
$cppstdin $cppflags $cppminus < "$xinc" > try.c

case "$direntrytype" in
"|' ')
 case "$i_dirent" in
 $define) guess1='struct dirent' ;;
 *) guess1='struct direct'  ;;
 esac
 ;;
*) guess1="$direntrytype"
 ;;
esac

case "$guess1" in
'struct dirent') guess2='struct direct' ;;
*) guess2='struct dirent' ;;
esac

if $contains "$guess1" try.c >/dev/null 2>&1; then
 direntrytype="$guess1"
 echo "Your directory entries are $direntrytype." >&4
elif $contains "$guess2" try.c >/dev/null 2>&1; then
 direntrytype="$guess2"
 echo
 "Your directory entries seem to be $direntrytype." >&4
else
 echo "I don't recognize your system's directory entries." >&4
 rp="What type is used for directory entries on this system?"
 dflt="$guess1"
 . ./myread
 direntrytype="$ans"
```

```
fi
$rm_try

@end

@if d_dirnamlen || DIRNAMLEN
: see if the directory entry stores field length
echo " "
$cppstdin $cppflags $cppminus < "$xinc" > try.c
if $contains 'd_namlen' try.c >/dev/null 2>&1; then
 echo "Good, your directory entry keeps length information in d_namlen." >&4
 val="$define"
else
 echo "Your directory entry does not know about the d_namlen field." >&4
 val="$undef"
fi
set d_dirnamlen
eval $setvar
$rm_try

@end
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_dirent.U
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```
?RCS: $Id: Config_h.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Config_h.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  14:57:43  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:10:49  ram
?RCS: patch59: commented the purpose of the #un-def directive
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:25:39  ram
?RCS: patch49: typo fixes in leading config.h comment (WED)
?RCS:
?RCS: Revision 3.0.1.2  1993/08/24  12:13:20  ram
```

```
?RCS: patch3: added TOP as a local shell temporary variable
?RCS:
?RCS:
 Revision 3.0.1.1  1993/08/19  06:42:20  ram
?RCS: patch1: leading config.sh searching was not aborting properly
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file ends up producing the config_h.SH script, which is run to produce
?X: the config.h file.  The file ./.Config_h below contains all the ?H: lines
?X: extracted out of all the units.  Metaconfig itself adds the !GROK!THIS!.
?X: Note that this code isn't included into Configure, but must be shipped with.
?X:
?X: For those who wish to know why the file is config_h.SH instead of the more
?X: natural config.h.SH, well... it is to support systems like MS-DOG. Only one
?X: 'dot' is allowed within the file name, as it is part of the "extension" of
?X: the file. MS-DOG will not let you have two 'dots' because that would mean
?X: two "extensions".
?X:
?MAKE:Config_h: Id End Config_sh Obsol_h myuname cf_time cf_by package src
?MAKE: -pick c_h_weed $@ %<
?MAKE: -pick
 c_h_weed $@ ./Config_h
?MAKE: -pick c_h_weed $@ ./Obsol_h
?T:PERL_CONFIG_SH TOP
?LINT:unclosed !GROK!THIS!
?LINT:extern CONFIG_H CONFIG_SH
?LINT:change CONFIG_H CONFIG_SH
?X:?LINT:nocomment
: Set up for generating config_h.SH
case "$CONFIG_SH" in
") CONFIG_SH=config.sh;;
esac
case "$CONFIG_H" in
") CONFIG_H=config.h;;
esac
case $PERL_CONFIG_SH in
")
 if test -f $CONFIG_SH; then TOP=.;
 elif test -f ../$CONFIG_SH; then TOP=..;
 elif test -f ../../$CONFIG_SH; then TOP=../..;
 elif test -f ../../../$CONFIG_SH; then TOP=../../..;
 elif test -f ../../../../$CONFIG_SH; then TOP=../../../..;
 else
  echo "Can't find $CONFIG_SH."; exit 1
 fi
```

```
 . $TOP/$CONFIG_SH
 ;;
esac
?X: Make sure we are in the directory where the .SH file is located.
case "$0" in
*/*) cd `expr X$0 : 'X\(.*\)/'` ;;
esac
echo "Extracting $CONFIG_H (with variable substitutions)"
?X:
?X: Since we unconditionally translate leading #undef into /*#define, we're
?X: stuck when we really want to have a #undef in $CONFIG_H.
 That's why there
?X: is provision here for #un-def, which is translated back into #undef after
?X: all original #undef have been processed.
?X:
?X: Previously, we changed all
?X:  #undef FOO /**/
?X: into
?X:  /*#define FOO /**/
?X: The xlc compiler (available on IBM's AIX) complains that this is
?X: an illegal attempt to write a nested comment, and warns against it.
?X: There's apparently no way to shut the compiler up, either.
?X: This sed command from Hallvard B Furuseth <h.b.furuseth@usit.uio.no>
?X: changes it to
?X:  /*#define FOO / **/
sed <<!GROK!THIS! >$CONFIG_H -e 's!^#undef\(.*/\)\*!/\*#define\1 \*!' -e 's!^#un-def!#undef!'
/* This file was produced by running the config_h.SH script, which
* gets its values from $CONFIG_SH, which is generally produced by
* running Configure.
*
* Feel free to modify any of this as the need arises.  Note, however,
* that running config_h.SH again will wipe out any changes you've made.
* For a more permanent change edit $CONFIG_SH and
 rerun config_h.SH.
*/

/* Package name      : $package
* Source directory  : $src
* Configuration time: $cf_time
* Configured by     : $cf_by
* Target system     : $myuname
*/

#ifndef _config_h_
#define _config_h_

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-
```

5.34.0/U/modified/Config_h.U
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```
?RCS: $Id: i_ieeefp.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_ieeefp: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_ieeefp:
?S: This variable conditionally defines the I_IEEEFP symbol, and indicates
?S: whether a C program should include <ieeefp.h>.
?S:.
?C:I_IEEEFP:
?C: This symbol, if defined, indicates that <ieeefp.h> exists and
?C: should be included.
?C:.
?H:#$i_ieeefp I_IEEEFP  /**/
?H:.
?LINT:set i_ieeefp
: see if this is a ieeefp.h system
case "$i_ieeefp" in
" ) set ieeefp.h i_ieeefp
   eval $inhdr
   ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_ieeefp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_systable.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_systable.U,v $
?RCS: Revision 3.0.1.1  1993/10/16  13:50:20  ram
?RCS: patch12: created
```

```
?RCS:
?RCS:
?MAKE:i_systable: Inhdr
?MAKE: -pick add $@ %<
?S:i_systable:
?S: This variable conditionally defines the I_SYS_TABLE symbol, and
?S: indicates whether a C program should include <sys/table.h>.
?S:.
?C:I_SYS_TABLE:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/table.h> for the OSF/1 table() system call.
?C:.
?H:#$i_systable
 I_SYS_TABLE  /**/
?H:.
?LINT:set i_systable
: see if this is an OSF sys/table system
set sys/table.h i_systable
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_systable.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fpclassl: Inlibc
?MAKE: -pick add $@ %<
?S:d_fpclassl:
?S: This variable conditionally defines the HAS_FPCLASSL symbol, which
?S: indicates to the C program that the fpclassl() routine is available.
?S:.
?C:HAS_FPCLASSL:
?C: This symbol, if defined, indicates that the fpclassl routine is
?C: available to classify long doubles.  Available for example in IRIX.
?C: The returned values are defined in <ieeefp.h> and are:
?C:
?C: FP_SNAN  signaling NaN
?C: FP_QNAN  quiet NaN
?C: FP_NINF  negative infinity
?C: FP_PINF  positive infinity
?C: FP_NDENORM negative denormalized non-zero
```

```
?C: FP_PDENORM positive denormalized non-zero
?C: FP_NZERO negative zero
?C: FP_PZERO positive zero
?C: FP_NNORM negative
 normalized non-zero
?C: FP_PNORM positive normalized non-zero
?C:.
?H:#$d_fpclassl HAS_FPCLASSL  /**/
?H:.
?LINT:set d_fpclassl
: see if fpclassl exists
set fpclassl d_fpclassl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fpclassl.U
No license file was found, but licenses were detected in source scan.

```
case $CONFIG in
")
 if test -f config.sh; then TOP=.;
 elif test -f ../config.sh; then TOP=..;
 elif test -f ../../config.sh; then TOP=../..;
 elif test -f ../../../config.sh; then TOP=../../..;
 elif test -f ../../../../config.sh; then TOP=../../../..;
 else
  echo "Can't find config.sh."; exit 1
 fi
 . $TOP/config.sh
 ;;
esac
case "$0" in
*/*) cd `expr X$0 : 'X\(.*\)/'` ;;
esac
echo "Extracting makedir (with variable substitutions)"
$spitshell >makedir <<!GROK!THIS!
$startsh
# $Id: makedir.sh,v 3.0.1.1 1994/01/24 14:00:08 ram Exp ram $
#
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#
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#  as specified in the README file that comes with the distribution.
#  You may reuse parts of this distribution only within the terms of
#  that same Artistic Licence; a copy of which may be found at the root
#  of the source tree for dist 4.0.
#
```

```
# Original
 Author: Larry Wall <lwall@netlabs.com>
#
# $Log: makedir.sh,v $
# Revision 3.0.1.1  1994/01/24  14:00:08  ram
# patch16: changed top ln-style config.sh lookup into test-style one
#
# Revision 3.0  1993/08/18  12:04:38  ram
# Baseline for dist 3.0 netwide release.
#

export PATH || (echo "OOPS, this isn't sh.  Desperation time.  I will feed myself to sh."; sh \$0; kill \$\$)

case \$# in
 0)
   $echo "makedir pathname filenameflag"
   exit 1
   ;;
esac

: guarantee one slash before 1st component
case \$1 in
 /*) ;;
 *)  set ./\$1 \$2 ;;
esac

: strip last component if it is to be a filename
case X\$2 in
 X1) set \`$echo \$1 | $sed 's:\(.*\)/[^/]*\$:\1:'\` ;;
 *)  set \$1 ;;
esac

: return reasonable status if nothing to be created
if $test -d "\$1" ; then
   exit 0
fi

list="
while true ; do
   case \$1 in
   */*)
 list="\$1 \$list"
 set \`echo \$1 | $sed 's:\(.*\)/:\1 :'\`
 ;;
   *)
 break
 ;;
   esac
```

```
done

set \$list

for dir do
   $mkdir \$dir >/dev/null 2>&1
done
!GROK!THIS!
$eunicefix
 makedir
chmod +x makedir
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/makedir.SH
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```
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:uidsize: Myread Typedef uidtype Compile run i_stdlib
?MAKE: -pick add $@ %<
?S:uidsize:
?S: This variable contains the size of a uidtype in bytes.
?S:.
?C:Uid_t_size:
?C: This symbol holds the size of a Uid_t in bytes.
?C:.
?H:#define Uid_t_size $uidsize  /* UID size */
?H:.
?T:yyy zzz
?F:!try
: Check size of UID
echo " "
case "$uidtype" in
*_t) zzz="$uidtype" ;;
*)   zzz="uid"  ;;
esac
echo "Checking the size of $zzz..." >&4
cat > try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
```

```
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include
 <stdlib.h>
#endif
int main() {
   printf("%d\n", (int)sizeof($uidtype));
   exit(0);
}
EOCP
set try
if eval $compile_ok; then
 yyy=`$run ./try`
 case "$yyy" in
 ") uidsize=4
  echo "(I can't execute the test program--guessing $uidsize.)" >&4
  ;;
 *) uidsize=$yyy
  echo "Your $zzz is $uidsize bytes long."
  ;;
 esac
else
 uidsize=4
 echo "(I can't compile the test program--guessing $uidsize.)" >&4
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/uidsize.U
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```
?RCS: $Id: d_semget.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_semget.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_semget: Inlibc
?MAKE: -pick add $@ %<
?S:d_semget:
```

```
?S: This variable conditionally defines the HAS_SEMGET symbol, which
?S: indicates to the C program that the semget() routine is available.
?S:.
?C:HAS_SEMGET:
?C: This symbol, if defined, indicates that the semget() routine is
?C: available to get a set of semaphores.
?C:.
?H:#$d_semget
 HAS_SEMGET /**/
?H:.
?LINT:set d_semget
: see if semget exists
set semget d_semget
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_semget.U
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```
?RCS: $Id: d_newsadm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_newsadm.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:36:53  ram
?RCS: patch61: added Guess dependency
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:14:33  ram
?RCS: patch36: call ./eunice explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_newsadm newsadmin: cat contains Guess Setvar Myread Oldconfig
?MAKE: -pick add $@ %<
?S:d_newsadm:
?S: This variable
 conditionally defines the NEWS_ADMIN symbol, which
?S: indicates to the C program that there is a user who is in charge
?S: of news administration.
?S:.
```

```
?S:newsadmin:
?S: This variable holds the login name of the news administrator, if any.
?S:.
?C:NEWS_ADMIN (NEWSADMIN):
?C: This symbol, if defined, contains the login name of the news
?C: administrator.
?C:.
?H:#$d_newsadm NEWS_ADMIN "$newsadmin"  /**/
?H:.
?LINT:set d_newsadm
: get news administrator name
case "$newsadmin" in
")
 if $contains "^news:" /etc/passwd >/dev/null 2>&1 ; then
  dflt=news
 elif $contains "^usenet:" /etc/passwd >/dev/null 2>&1 ; then
  dflt=usenet
 elif ./eunice; then
  dflt=system
 else
  dflt=root
 fi
 ;;
*)
 dflt="$newsadmin"
 ;;
esac
$cat <<'EOM'

Many systems keep their news in a private directory, or have a non-superuser
in charge of administering news.  (If you don't have such a user, take the
default answer.)  I need the login name (not directory) which is used for
news administration.

EOM
rp="News
 admin login?"
. ./myread
newsadmin="$ans"
case "$newsadmin" in
root) val="$undef" ;;
*) val="$define" ;;
esac
set d_newsadm
eval $setvar

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-
```

5.34.0/dist/U/d_newsadm.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memchr.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:32  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_memchr: Inlibc
?MAKE: -pick add $@ %<
?S:d_memchr:
?S: This variable conditionally defines the HAS_MEMCHR symbol, which
?S: indicates to the C program that the memchr() routine is available
?S: to scan a block of memory for a character.
?S:.
?C:HAS_MEMCHR:
?C: This symbol, if defined, indicates that the memchr routine is available
?C: to scan a block of memory for a character.
  If undefined, roll your own.
?C:.
?H:#$d_memchr HAS_MEMCHR  /**/
?H:.
?LINT:set d_memchr
: see if memchr exists
set memchr d_memchr
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_memchr.U
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```
?RCS: $Id: d_ftrncate.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_ftrncate.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_ftrncate: Inlibc
?MAKE: -pick add $@ %<
?S:d_ftrncate (d_ftruncate):
?S: This variable conditionally defines the HAS_FTRUNCATE symbol, which
?S: indicates to the C program that the ftruncate() subroutine exists.
?S:.
?C:HAS_FTRUNCATE:
?C: This symbol, if defined, indicates that the ftruncate() subroutine
?C: exists.
?C:.
?H:#$d_ftrncate
 HAS_FTRUNCATE /**/
?H:.
?LINT:set d_ftrncate
: see if ftruncate exists
set ftruncate d_ftrncate
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_ftrncate.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Magic_h.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Magic_h.U,v $
?RCS: Revision 3.0.1.2  1993/11/10  17:32:58  ram
?RCS: patch14: forgot to mention Id in the dependencies
?RCS:
?RCS: Revision 3.0.1.1  1993/10/16  13:46:59  ram
?RCS: patch12: created for ?M: lines support (magic symbols)
?RCS:
?X:
```

```
?X: This file ends up producing the confmagic.h include, which is used to
?X: automagically remap some C symbols via cpp redefinitions.
?X:
?X: The file ./Magic_h below contains all the ?M: lines extracted out
 of all
?X: the units.  Metaconfig itself adds the final #endif statement.
?X: Note that this code isn't included into Configure, but must be shipped with.
?X:
?MAKE:Magic_h: Id Config_h
?MAKE: -pick cm_h_weed $@ %<
?MAKE: -pick cm_h_weed $@ ./Magic_h
?LINT:nocomment
/*
* This file was produced by running metaconfig and is intended to be included
* after config.h and after all the other needed includes have been dealt with.
*
* This file may be empty, and should not be edited. Rerun metaconfig instead.
* If you wish to get rid of this magic, remove this file and rerun metaconfig
* without the -M option.
*
*  $Id: Magic_h.U 1 2006-08-24 12:32:52Z rmanfredi $
*/

#ifndef _confmagic_h_
#define _confmagic_h_
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Magic_h.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_vprintf.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:59  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_vprintf d_charvspr: Guess cat +cc +ccflags Csym Setvar
?MAKE: -pick add $@ %<
?S:d_vprintf:
```

```
?S: This variable conditionally defines the HAS_VPRINTF symbol, which
?S: indicates to the C program that the vprintf() routine is available
?S: to printf with a pointer to an argument list.
?S:.
?S:d_charvspr:
?S: This variable conditionally defines CHARVSPRINTF if this system
?S: has
 vsprintf returning type (char*).  The trend seems to be to
?S: declare it as "int vsprintf()".
?S:.
?C:HAS_VPRINTF (VPRINTF):
?C: This symbol, if defined, indicates that the vprintf routine is available
?C: to printf with a pointer to an argument list.  If unavailable, you
?C: may need to write your own, probably in terms of _doprnt().
?C:.
?C:USE_CHAR_VSPRINTF (CHARVSPRINTF):
?C: This symbol is defined if this system has vsprintf() returning type
?C: (char*).  The trend seems to be to declare it as "int vsprintf()".  It
?C: is up to the package author to declare vsprintf correctly based on the
?C: symbol.
?C:.
?H:#$d_vprintf HAS_VPRINTF /**/
?H:#$d_charvspr USE_CHAR_VSPRINTF  /**/
?H:.
?F:!vprintf !vprintf.c
?T:val2
?LINT:set d_vprintf d_charvspr
: see if vprintf exists
echo " "
if set vprintf val -f d_vprintf; eval $csym; $val; then
 echo 'vprintf() found.' >&4
 val="$define"
 $cat >vprintf.c <<'EOF'
#include <varargs.h>

int main() { xxx("foo"); }

xxx(va_alist)
va_dcl
{
 va_list args;
 char
 buf[10];

 va_start(args);
 exit((unsigned long)vsprintf(buf,"%s",args) > 10L);
}
EOF
```

```
 if $cc $ccflags -o vprintf vprintf.c >/dev/null 2>&1 && ./vprintf; then
  echo "Your vsprintf() returns (int)." >&4
  val2="$undef"
 else
  echo "Your vsprintf() returns (char*)." >&4
  val2="$define"
 fi
else
 echo 'vprintf() NOT found.' >&4
  val="$undef"
  val2="$undef"
fi
set d_vprintf
eval $setvar
val=$val2
set d_charvspr
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_vprintf.U
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```
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?RCS:
?MAKE:d_fpgetround: Inlibc
?MAKE: -pick add $@ %<
?S:d_fpgetround:
?S: This variable conditionally defines HAS_FPGETROUND if fpgetround()
?S: is available to get the floating point rounding mode.
?S:.
?C:HAS_FPGETROUND:
?C: This symbol, if defined, indicates that the fpgetround routine is
?C: available to get the floating point rounding mode.
?C:.
?H:#$d_fpgetround HAS_FPGETROUND  /**/
?H:.
?LINT:set d_fpgetround
: see if fpgetround exists
set fpgetround d_fpgetround
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fpgetround.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strctcpy.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:34  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strctcpy: cat rm_try cc Setvar
?MAKE: -pick add $@ %<
?S:d_strctcpy:
?S: This variable conditionally defines the USE_STRUCT_COPY symbol, which
?S: indicates to the C program that this C compiler knows how to copy
?S: structures.
?S:.
?C:USE_STRUCT_COPY (STRUCTCOPY):
?C: This symbol, if defined, indicates that this C compiler knows how
?C: to copy structures.  If undefined, you'll
 need to use a block copy
?C: routine of some sort instead.
?C:.
?H:#$d_strctcpy USE_STRUCT_COPY /**/
?H:.
?LINT:set d_strctcpy
: check for structure copying
echo " "
echo "Checking to see if your C compiler can copy structs..." >&4
$cat >try.c <<'EOCP'
int main()
{
 struct blurfl {
  int dyick;
 } foo, bar;

 foo = bar;
}
EOCP
if $cc -c try.c >/dev/null 2>&1 ; then
 val="$define"
 echo "Yup, it can."
else
 val="$undef"
```

```
 echo "Nope, it can't."
fi
set d_strctcpy
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strctcpy.U
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```
?RCS: $Id: cpp_stuff.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cpp_stuff.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:08:24  ram
?RCS: patch36: now uses cppstdin instead of plain cpp for consistency (ADO)
?RCS: patch36: remove temporary files when done
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:36  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:cpp_stuff: cat contains cppstdin cppflags cppminus rm
?MAKE: -pick add $@ %<
?S:cpp_stuff:
?S: This variable contains an identification of the concatenation
 mechanism
?S: used by the C preprocessor.
?S:.
?C:CAT2:
?C: This macro concatenates 2 tokens together.
?C:.
?C:CAT3:
?C: This macro concatenates 3 tokens together.
?C:.
?C:CAT4:
?C: This macro concatenates 4 tokens together.
?C:.
?C:CAT5:
?C: This macro concatenates 5 tokens together.
?C:.
```

```
?C:STRINGIFY:
?C: This macro surrounds its token with double quotes.
?C:.
?C:SCAT2:
?C: This macro concatenates 2 tokens together and stringifies the result.
?C: It might not exist, so #ifdef it in your code!
?C:.
?C:SCAT3:
?C: This macro concatenates 3 tokens together and stringifies the result.
?C: It might not exist, so #ifdef it in your code!
?C:.
?C:SCAT4:
?C: This macro concatenates 4 tokens together and stringifies the result.
?C: It might not exist, so #ifdef it in your code!
?C:.
?C:SCAT5:
?C: This macro concatenates 5 tokens together and stringifies the result.
?C: It might not exist, so #ifdef it in your code!
?C:.
?X: Dist pl70 included the following, but AIX's xlc compiler
?X: (which
 is ANSI-ish and has cpp_stuff == 42)) rejects
?X: The SQuoTe/EQuoTe stuff because the string literals are on
?X: separate lines.  Sigh.
?X:  Andy Dougherty   24 Feb 1998
?X: ?H:?%<:#if $cpp_stuff == 1
?X: ?H:?CAT2:#define CAT2(a,b)a/**/b
?X: ?H:?CAT3:#define CAT3(a,b,c)a/**/b/**/c
?X: ?H:?CAT4:#define CAT4(a,b,c,d)a/**/b/**/c/**/d
?X: ?H:?CAT5:#define CAT5(a,b,c,d,e)a/**/b/**/c/**/d/**/e
?X: ?H:?STRINGIFY:#define STRINGIFY(a)"a"
?X: ?H:?%<:#define SQuoTe(a)"a
?X: ?H:?%<:#define EQuoTe(a)a"
?X: ?H:?SCAT2:#define SCAT2(a,b)EQuoTe(SQuoTe(a)b)
?X: ?H:?SCAT3:#define SCAT3(a,b,c)EQuoTe(SQuoTe(a)b/**/c)
?X: ?H:?SCAT4:#define SCAT4(a,b,c,d)EQuoTe(SQuoTe(a)b/**/c/**/d)
?X: ?H:?SCAT5:#define SCAT5(a,b,c,d,e)EQuoTe(SQuoTe(a)b/**/c/**/d/**/e)
?X: ?H:?%<:#endif
?H:?%<:#if $cpp_stuff == 1
?H:?CAT2:#define CAT2(a,b) a/**/b
?H:?CAT3:#define CAT3(a,b,c) a/**/b/**/c
?H:?CAT4:#define CAT4(a,b,c,d) a/**/b/**/c/**/d
?H:?CAT5:#define CAT5(a,b,c,d,e) a/**/b/**/c/**/d/**/e
?H:?STRINGIFY:#define STRINGIFY(a) "a"
?X: If
 you can get stringification with catify, tell me how!
?H:?%<:#endif
?H:?%<:#if $cpp_stuff == 42
```

```
?H:?%<:#define PeRl_CaTiFy(a, b) a ## b
?H:?%<:#define PeRl_StGiFy(a) #a
?X: The additional level of indirection enables these macros to be
?X: used as arguments to other macros.  See K&R 2nd ed., page 231.
?H:?CAT2:#define CAT2(a,b) PeRl_CaTiFy(a,b)
?H:?CAT3:#define CAT3(a,b,c) CAT2(PeRl_CaTiFy(a,b),c)
?H:?CAT4:#define CAT4(a,b,c,d) CAT2(CAT3(a,b,c),d)
?H:?CAT5:#define CAT5(a,b,c,d,e) CAT2(CAT4(a,b,c,d),e)
?H:?%<:#define StGiFy(a) PeRl_StGiFy(a)
?H:?STRINGIFY:#define STRINGIFY(a) PeRl_StGiFy(a)
?H:?SCAT2:#define SCAT2(a,b) PeRl_StGiFy(a) PeRl_StGiFy(b)
?H:?SCAT3:#define SCAT3(a,b,c) PeRl_StGiFy(a) PeRl_StGiFy(b) PeRl_StGiFy(c)
?H:?SCAT4:#define SCAT4(a,b,c,d) PeRl_StGiFy(a) PeRl_StGiFy(b) PeRl_StGiFy(c) PeRl_StGiFy(d)
?H:?SCAT5:#define SCAT5(a,b,c,d,e) PeRl_StGiFy(a) PeRl_StGiFy(b) PeRl_StGiFy(c) PeRl_StGiFy(d)
PeRl_StGiFy(e)
?H:?%<:#endif
?H:?%<:#if $cpp_stuff != 1 && $cpp_stuff
 != 42
?H:?%<:#include "Bletch: How does this C preprocessor concatenate tokens?"
?H:?%<:#endif
?H:.
?W:%<:CAT2 CAT3 CAT4 CAT5 STRINGIFY SCAT2 SCAT3 SCAT4 SCAT5
?F:!cpp_stuff.c
?LINT:known StGiFy
?LINT:known PeRl_CaTiFy
?LINT:known PeRl_StGiFy
: how do we concatenate cpp tokens here?
echo " "
echo "Checking to see how your cpp does stuff like concatenate tokens..." >&4
$cat >cpp_stuff.c <<'EOCP'
#define RCAT(a,b)a/**/b
#define ACAT(a,b)a ## b
RCAT(Rei,ser)
ACAT(Cir,cus)
EOCP
$cppstdin $cppflags $cppminus <cpp_stuff.c >cpp_stuff.out 2>&1
if $contains 'Circus' cpp_stuff.out >/dev/null 2>&1; then
 echo "Oh!  Smells like ANSI's been here." >&4
 echo "We can catify or stringify, separately or together!"
 cpp_stuff=42
elif $contains 'Reiser' cpp_stuff.out >/dev/null 2>&1; then
 echo "Ah, yes!  The good old days!" >&4
 echo "However, in the good old days we don't know how to stringify and"
 echo "catify at the same time."
 cpp_stuff=1
else
 $cat >&4 <<EOM
Hmm, I don't seem to be able to concatenate
```

```
 tokens with your cpp.
You're going to have to edit the values of CAT[2-5] in config.h...
EOM
?X: It would be nice to have configure remind us at the end that some manual
?X: intervention is needed -- FIXME
 cpp_stuff="/* Help! How do we handle cpp_stuff? */*/"
fi
$rm -f cpp_stuff.*
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/cpp_stuff.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethostbyaddr_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_gethostbyaddr_r gethostbyaddr_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_gethostbyaddr_r:
?S: This variable conditionally defines the HAS_GETHOSTBYADDR_R symbol,
?S: which indicates to the C program that the gethostbyaddr_r()
?S: routine is available.
?S:.
?S:gethostbyaddr_r_proto:
?S: This variable encodes the prototype of gethostbyaddr_r.
?S: It is zero if d_gethostbyaddr_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gethostbyaddr_r
?S: is defined.
?S:.
?C:HAS_GETHOSTBYADDR_R:
?C: This symbol, if defined, indicates
 that the gethostbyaddr_r routine
?C: is available to gethostbyaddr re-entrantly.
?C:.
?C:GETHOSTBYADDR_R_PROTO:
?C: This symbol encodes the prototype of gethostbyaddr_r.
?C: It is zero if d_gethostbyaddr_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gethostbyaddr_r
?C: is defined.
?C:.
?H:#$d_gethostbyaddr_r HAS_GETHOSTBYADDR_R /**/
```

```
?H:#define GETHOSTBYADDR_R_PROTO $gethostbyaddr_r_proto /**/
?H:.
?T:try hdrs d_gethostbyaddr_r_proto
: see if gethostbyaddr_r exists
set gethostbyaddr_r d_gethostbyaddr_r
eval $inlibc
case "$d_gethostbyaddr_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_gethostbyaddr_r_proto:$usethreads" in
 ":define") d_gethostbyaddr_r_proto=define
  set d_gethostbyaddr_r_proto gethostbyaddr_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_gethostbyaddr_r_proto" in
 define)
 case "$gethostbyaddr_r_proto" in
 "|0) try='int gethostbyaddr_r(const char*, size_t, int, struct hostent*, char*,
 size_t, struct hostent**, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=I_CWISBWRE ;;
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) try='struct hostent* gethostbyaddr_r(const char*, size_t, int, struct hostent*, char*, size_t, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_CWISBWIE ;;
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) try='struct hostent* gethostbyaddr_r(const char*, size_t, int, struct hostent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_CWISBIE ;;
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) try='struct hostent* gethostbyaddr_r(const void*, size_t, int, struct hostent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_TWISBIE ;;
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) try='struct hostent* gethostbyaddr_r(const char*, int, int, struct hostent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_CIISBIE ;;
 esac
 case
 "$gethostbyaddr_r_proto" in
 "|0) try='struct hostent* gethostbyaddr_r(const char*, struct hostent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_CSBIE ;;
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) try='struct hostent* gethostbyaddr_r(const void*, struct hostent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_TSBIE ;;
 esac
 case "$gethostbyaddr_r_proto" in
```

```
"|0) try='int gethostbyaddr_r(const char*, size_t, int, struct hostent*, struct hostent_data*);'
./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=I_CWISD ;;
esac
case "$gethostbyaddr_r_proto" in
"|0) try='int gethostbyaddr_r(const char*, int, int, struct hostent*, struct hostent_data*);'
./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=I_CIISD ;;
esac
case "$gethostbyaddr_r_proto" in
"|0) try='int gethostbyaddr_r(const char*, int, int);'
./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=I_CII ;;
esac
case
"$gethostbyaddr_r_proto" in
"|0) try='int gethostbyaddr_r(const void*, socklen_t, int, struct hostent*, char*, size_t, struct hostent**, int*);'
./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=I_TsISBWRE ;;
esac
case "$gethostbyaddr_r_proto" in
"|0) d_gethostbyaddr_r=undef
 gethostbyaddr_r_proto=0
 echo "Disabling gethostbyaddr_r, cannot determine prototype." >&4 ;;
* ) case "$gethostbyaddr_r_proto" in
 REENTRANT_PROTO*) ;;
 *) gethostbyaddr_r_proto="REENTRANT_PROTO_$gethostbyaddr_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "gethostbyaddr_r has no prototype, not using it." >&4 ;;
 esac
 d_gethostbyaddr_r=undef
 gethostbyaddr_r_proto=0
 ;;
esac
;;
*) gethostbyaddr_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_gethostbyaddr_r.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_gethid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_gethid.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:10  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_gethid: Inlibc
?MAKE: -pick add $@ %<
?S:d_gethid:
?S: This variable conditionally defines HAS_GETHOSTID if gethostid() is
?S: available to get the host id.
?S:.
?C:HAS_GETHOSTID (GETHOSTID):
?C: This symbol, if defined, indicates that the gethostid system call is
?C: available to get the host id.
?C:.
?H:#$d_gethid HAS_GETHOSTID  /**/
?H:.
?LINT:set
 d_gethid
: see if gethid exists
set gethostid d_gethid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_gethid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:fflushNULL fflushall: Compile cat rm rm_try test osname run to from \
 Oldconfig Myread Setvar echo targethost \
 d_sysconf i_unistd d_stdio_stream_array stdio_stream_array i_stdlib
?MAKE: -pick add $@ %<
?S:fflushNULL:
```

```
?S: This symbol, if defined, tells that fflush(NULL) correctly
?S: flushes all pending stdio output without side effects. In
?S: particular, on some platforms calling fflush(NULL) *still*
?S: corrupts STDIN if it is a pipe.
?S:.
?S:fflushall:
?S: This symbol, if defined, tells that to flush
?S: all
 pending stdio output one must loop through all
?S: the stdio file handles stored in an array and fflush them.
?S: Note that if fflushNULL is defined, fflushall will not
?S: even be probed for and will be left undefined.
?S:.
?C:FFLUSH_NULL:
?C: This symbol, if defined, tells that fflush(NULL) correctly
?C: flushes all pending stdio output without side effects. In
?C: particular, on some platforms calling fflush(NULL) *still*
?C: corrupts STDIN if it is a pipe.
?C:.
?C:FFLUSH_ALL:
?C: This symbol, if defined, tells that to flush
?C: all pending stdio output one must loop through all
?C: the stdio file handles stored in an array and fflush them.
?C: Note that if fflushNULL is defined, fflushall will not
?C: even be probed for and will be left undefined.
?C:.
?H:#$fflushNULL FFLUSH_NULL  /**/
?H:#$fflushall FFLUSH_ALL  /**/
?H:.
?T:output code
?F:!try.out !try !tryp
: Check how to flush
echo " "
$cat >&4 <<EOM
Checking how to flush all pending stdio output...
EOM
# I only know how to find
 the first 32 possibly open files on SunOS.
# See also hints/sunos_4_1.sh and util.c  --AD
case "$osname" in
sunos) $echo '#define PERL_FFLUSH_ALL_FOPEN_MAX 32' > try.c ;;
esac
$cat >>try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
```

```
#$i_unistd I_UNISTD
#ifdef I_UNISTD
# include <unistd.h>
#endif
#$d_sysconf HAS_SYSCONF
#$d_stdio_stream_array HAS_STDIO_STREAM_ARRAY
#ifdef HAS_STDIO_STREAM_ARRAY
# define STDIO_STREAM_ARRAY $stdio_stream_array
#endif
int main() {
 FILE* p;
 unlink("try.out");
 p = fopen("try.out", "w");
#ifdef TRY_FPUTC
 fputc('x', p);
#else
# ifdef TRY_FPRINTF
 fprintf(p, "x");
# endif
#endif
#ifdef TRY_FFLUSH_NULL
 fflush(NULL);
#endif
#ifdef TRY_FFLUSH_ALL
 {
   long open_max = -1;
# ifdef PERL_FFLUSH_ALL_FOPEN_MAX
   open_max = PERL_FFLUSH_ALL_FOPEN_MAX;
# else
#  if defined(HAS_SYSCONF) && defined(_SC_OPEN_MAX)
   open_max = sysconf(_SC_OPEN_MAX);
#  else
#   ifdef FOPEN_MAX
   open_max = FOPEN_MAX;
#   else
#
    ifdef OPEN_MAX
   open_max = OPEN_MAX;
#    else
#     ifdef _NFILE
   open_max = _NFILE;
#     endif
#    endif
#   endif
#  endif
# endif
# ifdef HAS_STDIO_STREAM_ARRAY
   if (open_max > 0) {
```

```
    long i;
    for (i = 0; i < open_max; i++)
    if (STDIO_STREAM_ARRAY[i]._file >= 0 &&
  STDIO_STREAM_ARRAY[i]._file < open_max &&
  STDIO_STREAM_ARRAY[i]._flag)
  fflush(&STDIO_STREAM_ARRAY[i]);
   }
 }
# endif
#endif
 _exit(42);
}
EOCP
: first we have to find out how _not_ to flush
$to try.c
if $test "X$fflushNULL" = X -o "X$fflushall" = X; then
   output=''
   set try -DTRY_FPUTC
   if eval $compile; then
     $run ./try 2>/dev/null
     code="$?"
     $from try.out
     if $test ! -s try.out -a "X$code" = X42; then
  output=-DTRY_FPUTC
     fi
   fi
   case "$output" in
   '')
     set try -DTRY_FPRINTF
     if eval $compile; then
      $run ./try 2>/dev/null
      code="$?"
      $from try.out
      if $test ! -s try.out -a "X$code" = X42; then
   output=-DTRY_FPRINTF

    fi
     fi
 ;;
   esac
fi
: check for fflush NULL behavior
case "$fflushNULL" in
'') set try -DTRY_FFLUSH_NULL $output
 if eval $compile; then
  $run ./try 2>/dev/null
  code="$?"
  $from try.out
```

```
  if $test -s try.out -a "X$code" = X42; then
   fflushNULL="`$cat try.out`"
  else
   if $test "X$code" != X42; then
    $cat >&4 <<EOM
(If this test failed, don't worry, we'll try another method shortly.)
EOM
   fi
  fi
 fi
 $rm -f core try.core core.try.*
 case "$fflushNULL" in
 x) $cat >&4 <<EOM
Your fflush(NULL) works okay for output streams.
Let's see if it clobbers input pipes...
EOM
# As of mid-March 2000 all versions of Solaris appear to have a stdio
# bug that improperly flushes the input end of pipes.  So we avoid the
# autoflush on fork/system/exec support for now. :-(
$cat >tryp.c <<EOCP
#include <stdio.h>
int
main(int argc, char **argv)
{
   char buf[1024];
   int i;
   char *bp = buf;
   while (1) {
 while ((i = getc(stdin)) != -1
        && (*bp++ = i) != '\n'

     && bp < &buf[1024])
 /* DO NOTHING */ ;
 *bp = '\0';
 fprintf(stdout, "%s", buf);
 fflush(NULL);
 if (i == -1)
     return 0;
 bp = buf;
   }
}
EOCP
  fflushNULL="$define"
  set tryp
  if eval $compile; then
      $rm -f tryp.out
      # Copy the .c file to the remote host ($to is an ssh-alike if targethost is set)
      if $test "X$targethost" != X; then
```

```
   $to tryp.c
   $to tryp
   $run "cat tryp.c | ./tryp " 2>/dev/null > tryp.out
      else
   $cat tryp.c | $run ./tryp   2>/dev/null > tryp.out
      fi
      if cmp tryp.c tryp.out >/dev/null 2>&1; then
         $cat >&4 <<EOM
fflush(NULL) seems to behave okay with input streams.
EOM
   fflushNULL="$define"
      else
   $cat >&4 <<EOM
Ouch, fflush(NULL) clobbers input pipes!  We will not use it.
EOM
   fflushNULL="$undef"
      fi
  fi
  $rm -f core tryp.c tryp.core core.tryp.*
  ;;
 ") $cat >&4 <<EOM
Your fflush(NULL) isn't working (contrary to ANSI C).
EOM
  fflushNULL="$undef"
  ;;
 *) $cat >&4 <<EOM
Cannot figure out whether
 your fflush(NULL) works or not.
I'm assuming it doesn't (contrary to ANSI C).
EOM
  fflushNULL="$undef"
  ;;
 esac
 ;;
$define|true|[yY]*)
 fflushNULL="$define"
 ;;
*)
 fflushNULL="$undef"
 ;;
esac
: check explicit looping only if NULL did not work, and if the pipe
: bug does not show up on an explicit flush too
case "$fflushNULL" in
"$undef")
 $cat >tryp.c <<EOCP
#include <stdio.h>
int
```

```
main(int argc, char **argv)
{
   char buf[1024];
   int i;
   char *bp = buf;
   while (1) {
 while ((i = getc(stdin)) != -1
        && (*bp++ = i) != '\n'
        && bp < &buf[1024])
 /* DO NOTHING */ ;
 *bp = '\0';
 fprintf(stdout, "%s", buf);
 fflush(stdin);
 if (i == -1)
     return 0;
 bp = buf;
   }
}
EOCP
 set tryp
 if eval $compile; then
     $rm -f tryp.out
     if $test "X$targethost" != X; then
  $to tryp.c
  $to tryp
  $run "cat tryp.c | ./tryp " 2>/dev/null > tryp.out
     else
  $cat tryp.c | $run ./tryp   2>/dev/null > tryp.out
     fi
     if cmp tryp.c tryp.out >/dev/null 2>&1;
 then
        $cat >&4 <<EOM
Good, at least fflush(stdin) seems to behave okay when stdin is a pipe.
EOM
  : now check for fflushall behaviour
  case "$fflushall" in
  ") set try -DTRY_FFLUSH_ALL $output
   if eval $compile; then
    $cat >&4 <<EOM
(Now testing the other method--but note that this also may fail.)
EOM
    $run ./try 2>/dev/null
    code=$?
    $from try.out
    if $test -s try.out -a "X$code" = X42; then
     fflushall="`$cat try.out`"
    fi
   fi
```

```
   $rm_try
   case "$fflushall" in
   x) $cat >&4 <<EOM
Whew. Flushing explicitly all the stdio streams works.
EOM
    fflushall="$define"
    ;;
   ") $cat >&4 <<EOM
Sigh. Flushing explicitly all the stdio streams doesn't work.
EOM
    fflushall="$undef"
    ;;
   *) $cat >&4 <<EOM
Cannot figure out whether flushing stdio streams explicitly works or not.
I'm assuming it doesn't.
EOM
    fflushall="$undef"
    ;;
   esac
   ;;
  "$define"|true|[yY]*)
   fflushall="$define"
   ;;
  *)
   fflushall="$undef"
   ;;
  esac

 else
  $cat >&4 <<EOM
All is futile.  Even fflush(stdin) clobbers input pipes!
EOM
  fflushall="$undef"
     fi
 else
     fflushall="$undef"
 fi
 $rm -f core tryp.c tryp.core core.tryp.*
 ;;
*) fflushall="$undef"
 ;;
esac

case "$fflushNULL$fflushall" in
undefundef)
 $cat <<EOM
OK, I give up.  I cannot figure out how to flush pending stdio output.
We won't be flushing handles at all before fork/exec/popen.
```

```
EOM
 ;;
esac
$rm_try tryp
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/fflushall.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Head.U,v $
?RCS: Revision 3.0.1.9  1997/02/28  15:02:09  ram
?RCS: patch61: make sure we unset CDPATH for shells that support this
?RCS: patch61: improved Korn shell detection and handling
?RCS:
?RCS: Revision 3.0.1.8  1995/07/25  13:40:02  ram
?RCS: patch56: added SVR4-ish /opt directories to path list (ADO)
?RCS: patch56: OS/2 platforms are using another path separator
?RCS:
?RCS: Revision 3.0.1.7  1995/03/21  08:46:15  ram
?RCS: patch52: definition of paths wrongly added spurious ':' chars
?RCS:
?RCS:
 Revision 3.0.1.6  1994/10/29  15:54:19  ram
?RCS: patch36: make sure ENV is unset before calling /bin/ksh
?RCS:
?RCS: Revision 3.0.1.5  1994/08/29  16:03:44  ram
?RCS: patch32: now sets PATH only using existing directories
?RCS:
?RCS: Revision 3.0.1.4  1994/06/20  06:54:28  ram
?RCS: patch30: now computes its invocation name into 'me'
?RCS: patch30: symbol me is made visible to all units read-only
?RCS:
?RCS: Revision 3.0.1.3  1993/12/15  08:15:07  ram
?RCS: patch15: added /sbin:/usr/sbin:/usr/libexec in PATH for BSD/386
?RCS:
?RCS: Revision 3.0.1.2  1993/11/10  17:32:35  ram
?RCS: patch14: ensure PATH is reset to '.' before testing for alias
```

```
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:38:07  ram
?RCS: patch7: not all 'test' programs support the -x option
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This is the very first unit in the Configure script.  It is mostly just
?X: things to keep people from getting
 into a tizzy right off the bat.
?X:
?MAKE:Head:
?MAKE: -pick wipe $@ %<
?V:PATH p_ _exe me newsh
?T:argv Id p paths OS2_SHELL DJGPP
?T:inksh needksh avoidksh newsh changesh reason
?F:!*
?LINT:extern ENV CDPATH SHELL MACHTYPE
?LINT:change ENV CDPATH
?LINT:nocomment
#! /bin/sh
#
# If these # comments don't work, trim them. Don't worry about any other
# shell scripts, Configure will trim # comments from them for you.
#
# (If you are trying to port this package to a machine without sh,
# I would suggest you have a look at the prototypical config_h.SH file
# and edit it to reflect your system. Some packages may include samples
# of config.h for certain machines, so you might look for one of those.)
#
?X:
?X: NOTE THAT A CONFIGURE SCRIPT IS IN THE PUBLIC DOMAIN (whether or not
?X: the software which uses it is in the public domain).
?X:
# Yes, you may rip this off to use in other distribution packages. This
# script belongs to the public domain and cannot be copyrighted.
#
?X:
?X: WE ASK YOU
 NOT TO REMOVE OR ALTER THE FOLLOWING PARAGRAPH, PLEASE:
?X:
# Note: this Configure script was generated automatically. Rather than
# working with this copy of Configure, you may wish to get metaconfig.
# The dist package (which contains metaconfig) is available via SVN:
#     svn co https://svn.code.sf.net/p/dist/code/trunk/dist
?X:
?X: NOTA BENE:
```

```
?X: If you develop you own version of metaconfig based on this work,
?X: you have to add some comments telling that the script was generated
?X: by your version, not mine: It credits your work.
?X:

# $Id: Head.U 6 2006-08-25 22:21:46Z rmanfredi $
#
# Generated on <DATE> [metaconfig <VERSION> PL<PATCHLEVEL>]

cat >c1$$ <<EOF
ARGGGHHHH!!!!!

SCO csh still thinks true is false.  Write to SCO today and tell them that next
year Configure ought to "rm /bin/csh" unless they fix their blasted shell. :-)

(Actually, Configure ought to just patch csh in place.  Hmm.  Hmmmmm.  All
we'd have to do is go in and swap the && and || tokens, wherever they are.)

[End
 of diatribe. We now return you to your regularly scheduled programming...]
EOF
cat >c2$$ <<EOF

OOPS!  You naughty creature!  You didn't run Configure with sh!
I will attempt to remedy the situation by running sh for you...
EOF

true || cat c1$$ c2$$
true || exec sh $0 $argv:q

(exit $?0) || cat c2$$
(exit $?0) || exec sh $0 $argv:q
rm -f c1$$ c2$$

: compute my invocation name
me=$0
case "$0" in
*/*)
 me=`echo $0 | sed -e 's!.*/\(.*\)!\1!' 2>/dev/null`
 test "$me" || me=$0
 ;;
esac

?X:
?X: To be able to run under OS/2, we must detect that early enough to use
?X: the proper path separator, stored in $p_. It is : on UNIX and ; on
?X: DOSish systems such as OS/2.
?X:
```

```
: Proper separator for the PATH environment variable
p_=:
: On OS/2 this directory should exist if this is not floppy only system ":-]"
if test -d c:/. ; then
 if test -n "$OS2_SHELL"; then
  p_=\;
  PATH=`cmd /c "echo %PATH%" | tr '\\\\' / `
?X: That's a bug in ksh5.22
  OS2_SHELL=`cmd /c "echo %OS2_SHELL%" | tr
 '\\\\' / | tr '[A-Z]' '[a-z]'`
 elif test -n "$DJGPP"; then
  case "X${MACHTYPE:-nonesuchmach}" in
  *cygwin) ;;
  *) p_=\; ;;
  esac
 fi
fi

?X:
?X: There are two schools of thoughts here. Some people correctly argue that
?X: the user has a better chance than we do of setting a reasonable PATH and
?X: others argue that Configure is the best place there is to set up a suitable
?X: PATH. Well, here we try to compromize by keeping the user's PATH and
?X: appending some directories which are known to work on some machine or the
?X: other. The rationale behind this being that a novice user might not have a
?X: proper environment variable set, and some directories like /etc (where
?X: chown is located on some BSD systems) may be missing--RAM.
?X:
?X: SVR4 adds an /opt directory for optional packages.  Some sites use
?X: various permutations on /opt as opposed to /usr or /usr/local.-- ADO
?X:
?X: We only add directories that are not already in the PATH of the
?X: user and the directories must
 exist also.
?X:
: Proper PATH setting
paths='/bin /usr/bin /usr/local/bin /usr/ucb /usr/local /usr/lbin'
paths="$paths /opt/bin /opt/local/bin /opt/local /opt/lbin"
paths="$paths /usr/5bin /etc /usr/gnu/bin /usr/new /usr/new/bin /usr/nbin"
paths="$paths /opt/gnu/bin /opt/new /opt/new/bin /opt/nbin"
paths="$paths /sys5.3/bin /sys5.3/usr/bin /bsd4.3/bin /bsd4.3/usr/ucb"
paths="$paths /bsd4.3/usr/bin /usr/bsd /bsd43/bin /usr/ccs/bin"
paths="$paths /etc /usr/lib /usr/ucblib /lib /usr/ccs/lib"
paths="$paths /sbin /usr/sbin /usr/libexec"
paths="$paths /system/gnu_library/bin"

for p in $paths
do
```

```
 case "$p_$PATH$p_" in
 *$p_$p$p_*) ;;
 *) test -d $p && PATH=$PATH$p_$p ;;
 esac
done

PATH=.$p_$PATH
export PATH

: shall we be using ksh?
inksh=''
needksh=''
avoidksh=''
newsh=/bin/ksh
changesh=''
?X: Use (alias -x) and not (alias) since zsh and bash recognize the alias
?X: builtin but not the -x option which is typically ksh...
?X: We need to set up PATH before calling the "alias" built-in since
 some
?X: systems like HP-UX have a binary called /bin/alias.
if (PATH=.; alias -x) >/dev/null 2>&1; then
  inksh=true
fi
?X: On HP-UX, large Configure scripts may exercise a bug in /bin/sh, use ksh
if test -f /hp-ux -a -f /bin/ksh; then
 needksh='to avoid sh bug in "here document" expansion'
fi
?X: On AIX4, /bin/sh is really ksh and it causes problems, use sh
if test -d /usr/lpp -a -f /usr/bin/bsh -a -f /usr/bin/uname; then
 if test X`/usr/bin/uname -v` = X4; then
  avoidksh="to avoid AIX 4's /bin/sh"
  newsh=/usr/bin/bsh
 fi
fi
?X: On Digital UNIX, /bin/sh may start up buggy /bin/ksh, use sh
if test -f /osf_boot -a -f /usr/sbin/setld; then
 if test X`/usr/bin/uname -s` = XOSF1; then
  avoidksh="to avoid Digital UNIX' ksh"
  newsh=/bin/sh
?X: if BIN_SH is set to 'xpg4', sh will start up ksh
  unset BIN_SH
 fi
fi
?X: If we are not in ksh and need it, then feed us back to it
case "$inksh/$needksh" in
/[a-z]*)
?X: Clear ENV to avoid any ~/.kshrc that could alias cd or whatever...
?X: Don't
```

```
 use "unset ENV", that is not portable enough
  ENV=''
  changesh=true
  reason="$needksh"
 ;;
esac
?X: If we are in ksh and must avoid it, then feed us back to a new shell
case "$inksh/$avoidksh" in
true/[a-z]*)
 changesh=true
 reason="$avoidksh"
 ;;
esac
?X: Warn them if they use ksh on other systems, which are those where
?X: we don't need ksh nor want to avoid it explicitly, yet are using it.
case "$inksh/$needksh-$avoidksh-" in
true/--)
  cat <<EOM
(I see you are using the Korn shell.  Some ksh's blow up on $me,
mainly on older exotic systems.  If yours does, try the Bourne shell instead.)
EOM
 ;;
esac
case "$changesh" in
true)
 export newsh
 echo "(Feeding myself to $newsh $reason.)"
?X: Make sure they didn't say sh <Configure by checking whether $0 ends
?X: with Configure or not. If they did say sh <../../Configure, then too
?X: bad for them anyway, since we lost that path indication...
?X: Otherwise, execing $0 ensures we keep the full remote source dir
?X: indication for src.U.
 case
 "$0" in
 Configure|*/Configure) exec $newsh $0 "$@";;
 *) exec $newsh Configure "$@";;
 esac
 ;;
esac

?X: Unset CDPATH to avoid surprises when using cd under some shells
?X: Can't unset it because that's not portable to very old shells.
?X: Can't set it to '' because then bash 2.02 won't do "cd UU"  --AD  6/98.
?X: Don't want to set it to '.' because then ksh prints out the
?X: name of the directory every time you cd to it. --AD 6/98
?X: In order to inflict the least harm, change it only if it's set.
: if needed, set CDPATH to a harmless value that is not chatty
case "$CDPATH" in
```

```
") ;;
*) case "$SHELL" in
 *bash*) CDPATH='.' ;;
 *) CDPATH='' ;;
 esac
 ;;
esac

: Configure runs within the UU subdirectory
test -d UU || mkdir UU
?X: Use ./* to avoid any confirmation prompts from enhanced shells -- WED
cd UU && rm -f ./*
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Head.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_SHM_MAC.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_SHM_MAC.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:41  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_SHM_MAC d_SHM_PRM d_SHM_SEG d_SHM_IMMU: cat d_shm test rm +cc +ccflags
?MAKE: -pick add $@ %<
?S:d_SHM_MAC:
?S: Sometimes, the SHMLBA manifest needs sys/sysmacros.h, usually for
?S: the ctob() macro.
?S:.
?S:d_SHM_PRM:
?S: Sometimes, the SHMLBA manifest needs sys/param.h, usually for the
?S: NBPC constant.
?S:.
?S:d_SHM_SEG:
?S: Sometimes,
 the SHMLBA manifest needs sys/seg.h, usually for the
?S: SNUMSHFT constant.
?S:.
?S:d_SHM_IMMU:
```

```
?S: Sometimes, the SHMLBA manifest needs sys/immu.h, usually for the
?S: stob() macro.
?S:.
?C:SHMLBA_WANTS_SYSMACROS:
?C: This value tells us to include <sys/sysmacros.h> because SHMLBA
?C: needs something from there, probably the ctob() macro.
?C:.
?C:SHMLBA_WANTS_PARAM:
?C: This value tells us to include <sys/param.h> because SHMLBA needs
?C: something from there, probably the NBPC constant.
?C:.
?C:SHMLBA_WANTS_SEG:
?C: This value tells us to include <sys/seg.h> because SHMLBA needs
?C: something from there, probably the SNUMSHFT constant.
?C:.
?C:SHMLBA_WANTS_IMMU:
?C: This value tells us to include <sys/immu.h> because SHMLBA needs
?C: something from there, probably the stob() macro.  (tower_600 only?)
?C:.
?H:#$d_SHM_MAC SHMLBA_WANTS_SYSMACROS /* SHMLBA wants ctob()? */
?H:#$d_SHM_PRM SHMLBA_WANTS_PARAM /* SHMLBA wants NBPC? */
?H:#$d_SHM_SEG SHMLBA_WANTS_SEG /* SHMLBA wants
 SNUMSHFT? */
?H:#$d_SHM_IMMU SHMLBA_WANTS_IMMU /* SHMLBA wants stob()? */
?H:.
?T:flags D_sys_immu D_sys_seg D_sys_sysmacros D_sys_param
: check for SHMLBA braindamage
d_SHM_MAC="$undef"
d_SHM_PRM="$undef"
d_SHM_SEG="$undef"
d_SHM_IMMU="$undef"
if $test "$d_shm" = "$define" ; then
 echo " "
 $cat >&4 <<EOM
Checking to see if SHMLBA needs additional headers.
The headers I'll be checking are:

   sys/macros.h (for the ctob() macro)
   sys/param.h  (for NBPC)
   sys/seg.h    (for SNUMSHFT)
   sys/immu.h  (for the stob() macro)

EOM
 $cat >shm_mac.c <<'EOCP'
#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/shm.h>
#ifdef I_SYS_IMMU
```

```
#include <sys/immu.h>
#endif
#ifdef I_SYS_SYSMACROS
#include <sys/sysmacros.h>
#endif
#ifdef I_SYS_PARAM
#include <sys/param.h>
#endif
#ifdef I_SYS_SEG
#include <sys/seg.h>
#endif

int main() {
 int foo = SHMLBA ;
 }
EOCP
 flags='xxx'
 for D_sys_immu in " '-DI_SYS_IMMU'; do
 for D_sys_seg in " '-DI_SYS_SEG'; do
 for D_sys_sysmacros in " '-DI_SYS_SYSMACROS';
 do
 for D_sys_param in " '-DI_SYS_PARAM'; do
  case "$flags" in
  'xxx')
   case "$D_sys_immu$D_sys_param$D_sys_sysmacros$D_sys_seg" in
   ")
    echo "Trying it normally..."
    ;;
   *)
   echo "Trying $D_sys_immu $D_sys_param $D_sys_sysmacros $D_sys_seg"
   ;;
   esac
   if $cc $ccflags \
   $D_sys_immu $D_sys_param $D_sys_sysmacros $D_sys_seg \
   -o shm_mac shm_mac.c >/dev/null 2>&1 ; then
    set X $D_sys_immu $D_sys_param $D_sys_sysmacros $D_sys_seg
    shift
    flags="$*"
    echo "Succeeded with $flags"
   fi
   ;;
  esac
 done
 done
 done
 done
 case "$flags" in
 xxx)
```

```
  echo "I don't know how to keep SHMLBA happy.  Good luck!"
  ;;
 esac
 case "$flags" in
 *I_SYS_PARAM*) d_SHM_PRM="$define";;
 esac
 case "$flags" in
 *I_SYS_SYSMACROS*) d_SHM_MAC="$define";;
 esac
 case "$flags" in
 *I_SYS_SEG*) d_SHM_SEG="$define";;
 esac
 case "$flags" in
 *I_SYS_IMMU*) d_SHM_IMMU="$define";;
 esac
fi
$rm -f shm_mac*
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_SHM_MAC.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: patchlevel.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:18:41  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:patchlevel: package baserev test rsrc
?MAKE: -pick add $@ %<
?T:Revision
?S:patchlevel:
?S: The patchlevel level of this package.
?S: The value of patchlevel comes from the patchlevel.h file.
?S:.
: get the patchlevel
```

```
echo " "
echo "Getting the current patchlevel..." >&4
if $test -r
 $rsrc/patchlevel.h;then
 patchlevel=`awk \
  '/^#[  ]*define[  ][  ]*PATCHLEVEL/ {print $3}' \
  < $rsrc/patchlevel.h`
else
 patchlevel=0
fi
echo "(You have $package $baserev PL$patchlevel.)"
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/patchlevel.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: privlib.U,v $
?RCS: Revision 3.0.1.4  1995/09/25  09:17:09  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:44:23  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:31:52  ram
?RCS: patch32: now uses installation prefix
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:12:34  ram
?RCS: patch10: added support for /local/lib (WED)
?RCS: patch10: prompt phrasing made
 more explicit (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:privlib privlibexp installprivlib: afs package cat Getfile \
 Oldconfig Prefixit test
?MAKE: -pick add $@ %<
```

```
?Y:TOP
?S:privlib:
?S: This variable contains the eventual value of the PRIVLIB symbol,
?S: which is the name of the private library for this package.  It may
?S: have a ~ on the front. It is up to the makefile to eventually create
?S: this directory while performing installation (with ~ substitution).
?S:.
?S:privlibexp:
?S: This variable is the ~name expanded version of privlib, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?S:installprivlib:
?S: This variable is really the same as privlibexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?C:PRIVLIB:
?C: This symbol contains the name of the private library for this package.
?C: The library is
 private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.  The program
?C: should be prepared to do ~ expansion.
?C:.
?C:PRIVLIB_EXP:
?C: This symbol contains the ~name expanded version of PRIVLIB, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#define PRIVLIB "$privlib"  /**/
?H:#define PRIVLIB_EXP "$privlibexp"  /**/
?H:.
: determine where private executables go
set dflt privlib lib/$package
eval $prefixit
$cat <<EOM

There are some auxiliary files for $package that need to be put into a
private library directory that is accessible by everyone.

EOM
fn=d~+
rp='Pathname where the private library files will reside?'
. ./getfile
if $test "X$privlibexp" != "X$ansexp"; then
 installprivlib=''
fi
privlib="$ans"
privlibexp="$ansexp"
if $afs; then
```

```
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
private files reside from the directory in which they are installed
 (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installprivlib" in
 ") dflt=`echo $privlibexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installprivlib";;
 esac
 fn=de~
 rp='Where will private files be installed?'
 . ./getfile
 installprivlib="$ans"
else
 installprivlib="$privlibexp"
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/privlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Config_sh.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Config_sh.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  14:57:53  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.2  1995/01/11  14:53:31  ram
?RCS: patch45: moved path stripping from d_portable.U to end of Configure
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:50:37  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?X:
?X:
 This unit ends up producing the config.sh script, which contains all the
?X: definitions figured out by Configure.  The add.Config_sh command knows
?X: which variables need to be remembered.  It also adds the EOT (ends the
?X: here document redirection with variable substitution).
?X:
?MAKE:Config_sh: cf_time cf_by test spitshell startsh myuname Myread \
 End Obsol_sh Loc +d_portable package src cat
?MAKE: -pick add.Config_sh $@ %<
?MAKE: -pick add $@ ./Obsol_sh
?MAKE: -pick close.Config_sh $@ %<
?F:!config.over !config.arch
?T:file temp
?LINT:unclosed EOT
: back to where it started
if test -d ../UU; then
 cd ..
fi

: configuration may be unconditionally patched via a 'config.arch' file
if $test -f config.arch; then
 echo "I see a config.arch file, loading it." >&4
 . ./config.arch
fi

: configuration may be patched via a 'config.over' file
if $test -f config.over; then
 echo " "
 dflt=y
 rp='I see a config.over file.  Do you wish to load it?'
 . UU/myread
 case "$ans" in
 n*) echo
 "OK, I'll ignore it.";;
 *) . ./config.over
  echo "Configuration override changes have been loaded."
  ;;
 esac
fi

@if d_portable
: in case they want portability, strip down executable paths
?X:
?X: Strip down paths in located executables. For each file, e.g. vi, there
?X: is a $vi variable whose value is for instance '/usr/bin/vi'. By resetting
?X: $vi to 'vi', we rely on the PATH variable to locate the executable...
?X:
```

```
case "$d_portable" in
"$define")
 echo " "
 echo "Stripping down executable paths..." >&4
?X:
?X: Previously, we used to do    eval $file="\$file"  but in order
?X: to handle things like  sh Configure -Dmake=gmake, we can't do
?X: that.  What we *really* want is to strip away the absolute path
?X: and rely on the end user's $PATH to correctly find the executable.
?X: This method assumes there is a "basename" command available.  If
?X: not, replace it with the following expr-based command:
?X:   expr  $temp : '.*/\(.*\)' \| $temp
?X: Since this preserves the actual
 command name, we can now drop the
?X: OS/2 specific code.
?X:  --Andy Dougherty  August 1999
?X:
?X: On OS/2, a special $ar command not even named 'ar' is required,
?X: so we don't strip that name.
?X: Also, on DOS-ish systems, there might not be a ln command, but we
?X: might have ln='cp'.
?X: However, we can't set d_portable=undef on such systems since
?X: Unix-ish tools don't have standard locations there.  Thus we
?X: MUST rely on the user's $PATH.
?X: --Andy Dougherty  4/1998
?X:
 for file in $loclist $trylist; do
  eval temp=\$$file
  eval $file=`basename $temp`
 done
 ;;
esac

@end
: create config.sh file
echo " "
echo "Creating config.sh..." >&4
$spitshell <<EOT >config.sh
$startsh
#
# This file was produced by running the Configure script. It holds all the
# definitions figured out by Configure. Should you modify one of these values,
# do not forget to propagate your changes by running "Configure -der". You may
# instead choose to run each of the .SH files by yourself, or "Configure
 -S".
#

# Package name      : $package
```

```
# Source directory  : $src
# Configuration time: $cf_time
# Configured by     : $cf_by
# Target system     : $myuname

EOT
?X: Command line options are saved by the Options.U unit in the
?X: temporary file UU/cmdline.opt
: Add in command line options if available
$test -f UU/cmdline.opt && $cat UU/cmdline.opt >> config.sh

$spitshell <<EOT >>config.sh
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Config_sh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: so.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: so.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:30:04  ram
?RCS: patch36: now tells user how he can suppress shared lib lookup (ADO)
?RCS: patch36: removed echo at the top, since it's now in the here-doc (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:07:02  ram
?RCS: patch30: created
?RCS:
?X:
?X: This unit computes the shared-object / shared-lib extension
?X:
?MAKE:so d_libname_unique: test libpth Loc Myread Oldconfig cat Setvar
?MAKE: -pick add $@ %<
?S:so:
?S: This
 variable holds the extension used to identify shared libraries
?S: (also known as shared objects) on the system. Usually set to 'so'.
?S:.
?S:d_libname_unique:
?S: This variable is defined if the target system insists on unique
```

```
?S: basenames for shared library files. This is currently true on Android,
?S: false everywhere else we know of.
?S: Defaults to 'undef'.
?S:.
?LINT:set d_libname_unique
?T: xxx
: compute shared library extension
case "$so" in
")
 if xxx=`./loc libc.sl X $libpth`; $test -f "$xxx"; then
  dflt='sl'
 else
  dflt='so'
 fi
 ;;
*) dflt="$so";;
esac
$cat <<EOM

On some systems, shared libraries may be available.  Answer 'none' if
you want to suppress searching of shared libraries for the remainder
of this configuration.

EOM
rp='What is the file extension used for shared libraries?'
. ./myread
so="$ans"

: Does target system insist that shared library basenames are unique
$cat << EOM

Some dynamic loaders assume that the *basename* of shared library
 filenames
are globally unique.  We'll default this to undef as we assume your system
is not this weird. Set to defined if you're on one of them.

EOM

dflt='n'
rp='Make shared library basenames unique?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*)   val="$undef"  ;;
esac
set d_libname_unique
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/so.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_sigsetjmp.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:44:33  ram
?RCS: patch61: created
?RCS:
?MAKE:d_sigsetjmp: Setvar cat +cc +ccflags +ldflags libs rm
?MAKE: -pick add $@ %<
?S:d_sigsetjmp:
?S: This variable conditionally defines the HAS_SIGSETJMP symbol,
?S: which indicates that the sigsetjmp() routine
 is available to
?S: call setjmp() and optionally save the process's signal mask.
?S:.
?C:HAS_SIGSETJMP:
?C: This variable indicates to the C program that the sigsetjmp()
?C: routine is available to save the calling process's registers
?C: and stack environment for later use by siglongjmp(), and
?C: to optionally save the process's signal mask.  See
?C: Sigjmp_buf, Sigsetjmp, and Siglongjmp.
?C:.
?C:Sigjmp_buf:
?C: This is the buffer type to be used with Sigsetjmp and Siglongjmp.
?C:.
?C:Sigsetjmp:
?C: This macro is used in the same way as sigsetjmp(), but will invoke
?C: traditional setjmp() if sigsetjmp isn't available.
?C: See HAS_SIGSETJMP.
?C:.
?C:Siglongjmp:
?C: This macro is used in the same way as siglongjmp(), but will invoke
```

```
?C: traditional longjmp() if siglongjmp isn't available.
?C: See HAS_SIGSETJMP.
?C:.
?H:?%<:#$d_sigsetjmp HAS_SIGSETJMP /**/
?H:?%<:#ifdef HAS_SIGSETJMP
?H:?%<:#define Sigjmp_buf sigjmp_buf
?H:?%<:#define Sigsetjmp(buf,save_mask) sigsetjmp((buf),(save_mask))
?H:?%<:#define
 Siglongjmp(buf,retval) siglongjmp((buf),(retval))
?H:?%<:#else
?H:?%<:#define Sigjmp_buf jmp_buf
?H:?%<:#define Sigsetjmp(buf,save_mask) setjmp((buf))
?H:?%<:#define Siglongjmp(buf,retval) longjmp((buf),(retval))
?H:?%<:#endif
?H:.
?W:%<:Sigjmp_buf Sigsetjmp Siglongjmp
?F:!set
?LINT:set d_sigsetjmp
: see if sigsetjmp exists
?X: We can't check for these symbols with Inlibc because sigsetjmp
?X: is (sometimes? always?) a macro under GCC
echo " "
case "$d_sigsetjmp" in
")
 $cat >set.c <<'EOP'
#include <setjmp.h>
sigjmp_buf env;
int set = 1;
int main()
{
 if (sigsetjmp(env,1))
  exit(set);
 set = 0;
 siglongjmp(env, 1);
 exit(1);
}
EOP
 if $cc $ccflags $ldflags -o set set.c $libs > /dev/null 2>&1 ; then
  if ./set >/dev/null 2>&1; then
   echo "POSIX sigsetjmp found." >&4
   val="$define"
  else
   $cat >&4 <<EOM
Uh-Oh! You have POSIX sigsetjmp and siglongjmp, but they do not work properly!!
I'll ignore them.
EOM
   val="$undef"
  fi
```

```
 else
  echo "sigsetjmp not found."
 >&4
  val="$undef"
 fi
 ;;
*) val="$d_sigsetjmp"
 case "$d_sigsetjmp" in
 $define) echo "POSIX sigsetjmp found." >&4;;
 $undef) echo "sigsetjmp not found." >&4;;
 esac
 ;;
esac
set d_sigsetjmp
eval $setvar
$rm -f set.c set
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sigsetjmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sbrk.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sbrk.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:06:31  ram
?RCS: patch16: created
?RCS:
?MAKE:d_sbrk: Inlibc
?MAKE: -pick add $@ %<
?S:d_sbrk:
?S: This variable conditionally defines HAS_SBRK if sbrk() is
?S: available to add more core to the process.
?S:.
?C:HAS_SBRK:
?C: This symbol, if defined, indicates that the sbrk system call is
?C: available to add/relase core. Always true on Unix.
?C:.
?H:#$d_sbrk HAS_SBRK /**/
?H:.
```

```
?LINT:set d_sbrk
: see
 if sbrk exists
set sbrk d_sbrk
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sbrk.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_string.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_string.U,v $
?RCS: Revision 3.0.1.2  1993/10/16  13:50:12  ram
?RCS: patch12: special units Loc and Guess were missing from dependencies
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:07:26  ram
?RCS: patch10: removed "(Actually, this looks more like...)" messages (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:28  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: See if we should include <string.h> or <strings.h>
?X:
?MAKE:i_string strings:
 test Setvar Findhdr Warn
?MAKE: -pick add $@ %<
?S:i_string:
?S: This variable conditionally defines the I_STRING symbol, which
?S: indicates that <string.h> should be included rather than <strings.h>.
?S:.
?S:strings:
?S: This variable holds the full path of the string header that will be
?S: used. Typically /usr/include/string.h or /usr/include/strings.h.
?S:.
?C:I_STRING:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <string.h> (USG systems) instead of <strings.h> (BSD systems).
```

```
?C:.
?H:#$i_string I_STRING  /**/
?H:.
?LINT:set i_string
: see which of string.h or strings.h is needed
echo " "
strings=`./findhdr string.h`
if $test "$strings" && $test -r "$strings"; then
 echo "Using <string.h> instead of <strings.h>." >&4
 val="$define"
else
 val="$undef"
 strings=`./findhdr strings.h`
 if $test "$strings" && $test -r "$strings"; then
  echo "Using <strings.h> instead of <string.h>." >&4
 else
  ./warn "No string header found -- You'll surely
 have problems."
 fi
fi
set i_string
eval $setvar
case "$i_string" in
"$undef") strings=`./findhdr strings.h`;;
*)   strings=`./findhdr string.h`;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_string.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:i_poll: Inhdr
?MAKE: -pick add $@ %<
?S:i_poll:
?S: This variable conditionally defines the I_POLL symbol, which
?S: indicates to the C program that it should include <poll.h>.
?S:.
```

```
?C:I_POLL:
?C: This symbol, if defined, indicates that the program may include
?C: <poll.h>.  If there is no <poll.h>, then you may check I_SYS_POLL
?C: instead to see whether there is a <sys/poll.h> to include.
?C:.
?H:#$i_poll I_POLL /**/
?H:.
?LINT:set i_poll
: see if there is a poll.h file
set poll.h i_poll
eval $inhdr
```

Found
 in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_poll.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: cppstdin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cppstdin.U,v $
?RCS: Revision 3.0.1.4  1994/10/29  16:08:34  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.3  1994/01/24  14:05:38  ram
?RCS: patch16: comment for CPPLAST was missing
?RCS:
?RCS: Revision 3.0.1.2  1993/12/15  08:18:58  ram
?RCS: patch15: new variables cpprun and cpplast, guaranteed wrapper-free
?RCS: patch15: cppstdin now tries to use cc, even at the cost of a wrapper
?RCS:
?RCS: Revision 3.0.1.1
  1993/08/25  14:00:53  ram
?RCS: patch6: remove wrapper when not actually used
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:38  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:cppstdin cppminus cpprun cpplast: contains test \
 Myread Oldconfig Loc cpp +cc rm hint osname gccversion
```

```
?MAKE: -pick add $@ %<
?S:cppstdin:
?S: This variable contains the command which will invoke the C
?S: preprocessor on standard input and put the output to stdout.
?S: It is primarily used by other Configure units that ask about
?S: preprocessor symbols.
?S:.
?S:cppminus:
?S: This variable contains the second part of the string which will invoke
?S: the C preprocessor on the standard input and produce to standard
?S: output.  This variable will have the value "-" if cppstdin needs
?S: a minus to specify standard input, otherwise the value is "".
?S:.
?S:cpprun:
?S: This variable contains the command which will invoke a C preprocessor
?S: on standard input and put the output to stdout. It is guaranteed
 not
?S: to be a wrapper and may be a null string if no preprocessor can be
?S: made directly available. This preprocessor might be different from the
?S: one used by the C compiler. Don't forget to append cpplast after the
?S: preprocessor options.
?S:.
?S:cpplast:
?S: This variable has the same functionality as cppminus, only it applies
?S: to cpprun and not cppstdin.
?S:.
?C:CPPSTDIN:
?C: This symbol contains the first part of the string which will invoke
?C: the C preprocessor on the standard input and produce to standard
?C: output.  Typical value of "cc -E" or "/lib/cpp", but it can also
?C: call a wrapper. See CPPRUN.
?C:.
?C:CPPMINUS:
?C: This symbol contains the second part of the string which will invoke
?C: the C preprocessor on the standard input and produce to standard
?C: output.  This symbol will have the value "-" if CPPSTDIN needs a minus
?C: to specify standard input, otherwise the value is "".
?C:.
?C:CPPRUN:
?C: This symbol contains the string which will invoke
 a C preprocessor on
?C: the standard input and produce to standard output. It needs to end
?C: with CPPLAST, after all other preprocessor flags have been specified.
?C: The main difference with CPPSTDIN is that this program will never be a
?C: pointer to a shell wrapper, i.e. it will be empty if no preprocessor is
?C: available directly to the user. Note that it may well be different from
?C: the preprocessor used to compile the C program.
?C:.
```

```
?C:CPPLAST:
?C: This symbol is intended to be used along with CPPRUN in the same manner
?C: symbol CPPMINUS is used with CPPSTDIN. It contains either "-" or "".
?C:.
?H:#define CPPSTDIN "$cppstdin"
?H:#define CPPMINUS "$cppminus"
?H:#define CPPRUN "$cpprun"
?H:#define CPPLAST "$cpplast"
?H:.
?F:cppstdin !testcpp.out !testcpp.c
?T:wrapper x_cpp x_minus ok
?LINT:extern cppflags
: see how we invoke the C preprocessor
echo " "
echo "Now, how can we feed standard input to your C preprocessor..." >&4
cat <<'EOT' >testcpp.c
#define ABC abc
#define
 XYZ xyz
ABC.XYZ
EOT
cd ..
if test ! -f cppstdin; then
 if test "X$osname" = "Xaix" -a "X$gccversion" = X; then
  # AIX cc -E doesn't show the absolute headerfile
  # locations but we'll cheat by using the -M flag.
  echo 'cat >.$$.c; rm -f .$$.u; "$cc" ${1+"$@"} -M -c .$$.c 2>/dev/null; test -s .$$.u && awk """$2 ~ /\.h$/ { print
"# 0 \""$2"\"" }""" .$$.u; rm -f .$$.o .$$.u; "$cc" -E ${1+"$@"} .$$.c; rm .$$.c' > cppstdin
 else
  echo 'cat >.$$.c; "$cc $cppflags" -E ${1+"$@"} .$$.c; rm .$$.c' >cppstdin
 fi
else
 echo "Keeping your $hint cppstdin wrapper."
fi
chmod 755 cppstdin
wrapper=`pwd`/cppstdin
ok='false'
cd UU

?X:
?X: We'll run the cpp tests again if we don't have any valid C preprocessor
?X: yet or don't know how to proceed without a wrapper (in which case cpprun
?X: is empty and that's really annoying...)
?X:
if $test "X$cppstdin" != "X" && \
 $cppstdin $cppminus <testcpp.c >testcpp.out 2>&1 && \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1
then
```

```
 echo "You used
 to use $cppstdin $cppminus so we'll use that again."
 case "$cpprun" in
 ") echo "But let's see if we can live without a wrapper..." ;;
 *)
  if $cpprun $cpplast <testcpp.c >testcpp.out 2>&1 && \
   $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1
  then
   echo "(And we'll use $cpprun $cpplast to preprocess directly.)"
   ok='true'
  else
   echo "(However, $cpprun $cpplast does not work, let's see...)"
  fi
  ;;
 esac
else
 case "$cppstdin" in
 ") ;;
 *)
  echo "Good old $cppstdin $cppminus does not seem to be of any help..."
  ;;
 esac
fi

if $ok; then
 : nothing
elif echo 'Maybe """$cc"' -E" will work...'; \
 $cc -E <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Yup, it does."
 x_cpp="$cc $cppflags -E"
 x_minus=";
elif echo 'Nope...maybe """$cc"' -E -" will work...'; \
 $cc -E - <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Yup, it does."
 x_cpp="$cc $cppflags -E"
 x_minus='-';
elif
 echo 'Nope...maybe """$cc"' -P" will work...'; \
 $cc -P <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Yipee, that works!"
 x_cpp="$cc $cppflags -P"
 x_minus=";
elif echo 'Nope...maybe """$cc"' -P -" will work...'; \
 $cc -P - <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
```

```
 echo "At long last!"
 x_cpp="$cc $cppflags -P"
 x_minus='-';
elif echo 'No such luck, maybe "$cpp" will work...'; \
 $cpp <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "It works!"
 x_cpp="$cpp $cppflags"
 x_minus='';
elif echo 'Nixed again...maybe "$cpp' -" will work...'; \
 $cpp - <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Hooray, it works!  I was beginning to wonder."
 x_cpp="$cpp $cppflags"
 x_minus='-';
elif echo 'Uh-uh.  Time to get fancy.  Trying a wrapper...'; \
 $wrapper <testcpp.c >testcpp.out 2>&1; \
 $contains
 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 x_cpp="$wrapper"
 x_minus=''
 echo "Eureka!"
else
 dflt=''
 rp="No dice.  I can't find a C preprocessor.  Name one:"
 . ./myread
 x_cpp="$ans"
 x_minus=''
 $x_cpp <testcpp.c >testcpp.out 2>&1
 if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
  echo "OK, that will do." >&4
 else
echo "Sorry, I can't get that to work.  Go find one and rerun Configure." >&4
  exit 1
 fi
fi

case "$ok" in
false)
 cppstdin="$x_cpp"
 cppminus="$x_minus"
 cpprun="$x_cpp"
 cpplast="$x_minus"
?X:
?X: If /lib/cpp is used, try using a wrapper to increase our chances to have
?X: the C compiler and our $cppstdin agree on the same symbols... However,
?X: since cpprun is guaranteed not to be a wrapper, we must clear it if the
?X: only preprocessor we found was a wrapper, with all our luck...
```

```
?X:
 set X $x_cpp
 shift
 case "$1" in
 "$cpp")
  echo "Perhaps can we force $cc -E using a wrapper..."
  if $wrapper <testcpp.c >testcpp.out 2>&1; \
   $contains 'abc.*xyz'
 testcpp.out >/dev/null 2>&1
  then
   echo "Yup, we can."
   cppstdin="$wrapper"
   cppminus=";
  else
   echo "Nope, we'll have to live without it..."
  fi
  ;;
 esac
 case "$cpprun" in
 "$wrapper")
  cpprun="
  cpplast="
  ;;
 esac
 ;;
esac

case "$cppstdin" in
"$wrapper"|'cppstdin') ;;
*) $rm -f $wrapper;;
esac
$rm -f testcpp.c testcpp.out
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/cppstdin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2017, Karl Williamson
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_wcrtomb: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_wcrtomb:
?S: This variable conditionally defines the HAS_WCRTOMB symbol if the
?S: wcrtomb() routine is available to be used to convert a wide character
?S: into a multi-byte character.
?S:.
?C:HAS_WCRTOMB:
?C: This symbol, if defined, indicates that the wcrtomb routine is
?C: available to convert a wide character into a multi-byte character.
?C:.
?H:#$d_wcrtomb HAS_WCRTOMB /**/
?H:.
?LINT: set d_wcrtomb
: see if wcrtomb exists
set wcrtomb d_wcrtomb
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_wcrtomb.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getgrnam_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getgrnam_r getgrnam_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_grp extern_C
?MAKE: -pick add $@ %<
?S:d_getgrnam_r:
?S: This variable conditionally defines the HAS_GETGRNAM_R symbol,
?S: which indicates to the C program that the getgrnam_r()
?S: routine is available.
?S:.
?S:getgrnam_r_proto:
?S: This variable encodes the prototype of getgrnam_r.
?S: It is zero if d_getgrnam_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getgrnam_r
?S: is defined.
?S:.
?C:HAS_GETGRNAM_R:
?C: This symbol, if defined, indicates that the getgrnam_r routine
?C: is available to
 getgrnam re-entrantly.
?C:.
```

```
?C:GETGRNAM_R_PROTO:
?C: This symbol encodes the prototype of getgrnam_r.
?C: It is zero if d_getgrnam_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getgrnam_r
?C: is defined.
?C:.
?H:#$d_getgrnam_r HAS_GETGRNAM_R /**/
?H:#define GETGRNAM_R_PROTO $getgrnam_r_proto /**/
?H:.
?T:try hdrs d_getgrnam_r_proto
: see if getgrnam_r exists
set getgrnam_r d_getgrnam_r
eval $inlibc
case "$d_getgrnam_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_grp grp.h"
 case "$d_getgrnam_r_proto:$usethreads" in
 ":define") d_getgrnam_r_proto=define
  set d_getgrnam_r_proto getgrnam_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getgrnam_r_proto" in
 define)
 case "$getgrnam_r_proto" in
 "|0) try='int getgrnam_r(const char*, struct group*, char*, size_t, struct group**);'
 ./protochk "$extern_C $try" $hdrs && getgrnam_r_proto=I_CSBWR ;;
 esac
 case "$getgrnam_r_proto" in
 "|0) try='int getgrnam_r(const char*, struct group*, char*,
 int, struct group**);'
 ./protochk "$extern_C $try" $hdrs && getgrnam_r_proto=I_CSBIR ;;
 esac
 case "$getgrnam_r_proto" in
 "|0) try='struct group* getgrnam_r(const char*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getgrnam_r_proto=S_CBI ;;
 esac
 case "$getgrnam_r_proto" in
 "|0) try='int getgrnam_r(const char*, struct group*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getgrnam_r_proto=I_CSBI ;;
 esac
 case "$getgrnam_r_proto" in
 "|0) try='struct group* getgrnam_r(const char*, struct group*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getgrnam_r_proto=S_CSBI ;;
 esac
 case "$getgrnam_r_proto" in
 "|0) d_getgrnam_r=undef
  getgrnam_r_proto=0
```

```
  echo "Disabling getgrnam_r, cannot determine prototype." >&4 ;;
 * ) case "$getgrnam_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getgrnam_r_proto="REENTRANT_PROTO_$getgrnam_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getgrnam_r has no prototype, not using it."
 >&4 ;;
  esac
  d_getgrnam_r=undef
  getgrnam_r_proto=0
  ;;
 esac
 ;;
*) getgrnam_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getgrnam_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fmax: Inlibc
?MAKE: -pick add $@ %<
?S:d_fmax:
?S: This variable conditionally defines the HAS_FMAX symbol, which
?S: indicates to the C program that the fmax() routine is available.
?S:.
?C:HAS_FMAX:
?C: This symbol, if defined, indicates that the fmax routine is
?C: available to do the maximum function.
?C:.
?H:#$d_fmax HAS_FMAX  /**/
?H:.
?LINT:set d_fmax
: see if fmax exists
set fmax d_fmax
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/U/perl/d_fmax.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: groupstype.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: groupstype.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:18:08  ram
?RCS: patch36: no longer uses Setvar to set 'groupstype' (ADO)
?RCS: patch36: typo fix in the word 'argument' (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:00:18  ram
?RCS: patch30: created by ADO
?RCS:
?MAKE:groupstype: gidtype d_getgrps Myread Oldconfig Findhdr cat d_setgrps
?MAKE: -pick add $@ %<
?INIT:groupstype=''
?S:groupstype:
?S: This
 variable defines Groups_t to be something like gid_t, int,
?S: ushort, or whatever type is used for the second argument to
?S: getgroups() and setgroups().  Usually, this is the same as
?S: gidtype (gid_t), but sometimes it isn't.
?S:.
?C:Groups_t (GROUPSTYPE):
?C: This symbol holds the type used for the second argument to
?C: getgroups() and setgroups().  Usually, this is the same as
?C: gidtype (gid_t) , but sometimes it isn't.
?C: It can be int, ushort, gid_t, etc...
?C: It may be necessary to include <sys/types.h> to get any
?C: typedef'ed information.  This is only required if you have
?C: getgroups() or setgroups()..
?C:.
?H:?%<:#if defined(HAS_GETGROUPS) || defined(HAS_SETGROUPS)
?H:?%<:#define Groups_t $groupstype /* Type for 2nd arg to [sg]etgroups() */
?H:?%<:#endif
?H:.
?W:%<:getgroups HAS_GETGROUPS setgroups HAS_SETGROUPS
: Find type of 2nd arg to 'getgroups()' and 'setgroups()'
```

```
echo " "
case "$d_getgrps$d_setgrps" in
*define*)
 case
 "$groupstype" in
 ") dflt="$gidtype" ;;
 *)  dflt="$groupstype" ;;
 esac
 $cat <<EOM
What type of pointer is the second argument to getgroups() and setgroups()?
Usually this is the same as group ids, $gidtype, but not always.

EOM
 rp='What type pointer is the second argument to getgroups() and setgroups()?'
 . ./myread
 groupstype="$ans"
 ;;
*)  groupstype="$gidtype";;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/groupstype.U
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```
?RCS: $Id: d_setvbuf.U,v 3.0.1.1 1994/08/29 16:11:57 ram Exp $
?RCS:
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?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_setvbuf.U,v $
?RCS:
?MAKE:d_setvbuf: Inlibc
?MAKE: -pick add $@ %<
?S:d_setvbuf:
?S: This variable conditionally defines the HAS_SETVBUF symbol, which
?S: indicates to the C program that the setvbuf() routine is available
?S: to change buffering on an open stdio stream.
?S:.
?C:HAS_SETVBUF :
?C: This symbol, if defined, indicates that the setvbuf routine is
?C: available to change buffering on an open stdio stream.
?C: to a line-buffered mode.
?C:.
```

```
?H:#$d_setvbuf HAS_SETVBUF  /**/
?H:.
?LINT:set d_setvbuf
: see if setvbuf exists
set setvbuf d_setvbuf
eval $inlibc

Found
 in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-
5.34.0/U/modified/d_setvbuf.U
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?RCS: $Id: selecttype.U,v 3.0.1.3 1997/02/28 16:20:09 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: selecttype.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:20:09  ram
?RCS: patch61: always include <sys/select.h> when available for test
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  14:14:06  ram
?RCS: patch56: removed harmful spaces in assignment
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:06:31  ram
?RCS: patch30: created by ADO
?RCS:
?MAKE:selecttype: Protochk Oldconfig Myread cat
 \
 d_fd_set d_select d_socket i_systime i_sysselct extern_C
?MAKE: -pick add $@ %<
?S:selecttype:
?S: This variable holds the type used for the 2nd, 3rd, and 4th
?S: arguments to select.  Usually, this is 'fd_set *', if HAS_FD_SET
?S: is defined, and 'int *' otherwise.  This is only useful if you
?S: have select(), naturally.
?S:.
?C:Select_fd_set_t:
?C: This symbol holds the type used for the 2nd, 3rd, and 4th
?C: arguments to select.  Usually, this is 'fd_set *', if HAS_FD_SET
```

```
?C: is defined, and 'int *' otherwise.  This is only useful if you
?C: have select(), of course.
?C:.
?H:#define Select_fd_set_t $selecttype /**/
?H:.
?T:xxx nfd tmo try hdrs val
: check for type of arguments to select.
case "$selecttype" in
") case "$d_select" in
 $define)
  echo " "
  $cat <<EOM
Checking to see what type of arguments are accepted by select().
EOM
  hdrs="$define sys/types.h
   $i_systime sys/time.h
   $i_sysselct sys/select.h
   $d_socket sys/socket.h"
  : The first arg can be int, unsigned,
 or size_t
  : The last arg may or may not be 'const'
  val="
  : void pointer has been seen but using that
  : breaks the selectminbits test
  for xxx in 'fd_set *' 'int *'; do
   for nfd in 'int' 'size_t' 'unsigned long' 'unsigned' ; do
    for tmo in 'struct timeval *' 'const struct timeval *'; do
     case "$val" in
     ") try="$extern_C select _(($nfd, $xxx, $xxx, $xxx, $tmo));"
      if ./protochk "$try" $hdrs; then
       echo "Your system accepts $xxx."
       val="$xxx"
      fi
      ;;
     esac
    done
   done
  done
?X: In the unlikely event that none of those worked, prompt the user.
  case "$val" in
  ") rp='What is the type for the 2nd, 3rd, and 4th arguments to select?'
   case "$d_fd_set" in
    $define) dflt="fd_set *" ;;
    *)  dflt="int *" ;;
   esac
   . ./myread
   val=$ans
   ;;
```

```
  esac
  selecttype="$val"
  ;;
 *) : no select, so pick a harmless default
  selecttype='int *'
  ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/selecttype.U
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```
?RCS: $Id: i_locale.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_locale.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:48:23  ram
?RCS: patch61: created
?RCS:
?MAKE:i_locale: Inhdr
?MAKE: -pick add $@ %<
?S:i_locale:
?S: This variable conditionally defines the I_LOCALE symbol,
?S: and indicates whether a C program should include <locale.h>.
?S:.
?C:I_LOCALE:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <locale.h>.
?C:.
?H:#$i_locale I_LOCALE  /**/
?H:.
?LINT:set
 i_locale
: see if locale.h is available
set locale.h i_locale
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_locale.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_crypt_r.U,v 0RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_crypt_r crypt_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_crypt extern_C
?MAKE: -pick add $@ %<
?S:d_crypt_r:
?S: This variable conditionally defines the HAS_CRYPT_R symbol,
?S: which indicates to the C program that the crypt_r()
?S: routine is available.
?S:.
?S:crypt_r_proto:
?S: This variable encodes the prototype of crypt_r.
?S: It is zero if d_crypt_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_crypt_r
?S: is defined.
?S:.
?C:HAS_CRYPT_R:
?C: This symbol, if defined, indicates that the crypt_r routine
?C: is available to crypt re-entrantly.
?C:.
?C:CRYPT_R_PROTO:
?C: This
 symbol encodes the prototype of crypt_r.
?C: It is zero if d_crypt_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_crypt_r
?C: is defined.
?C:.
?H:#$d_crypt_r HAS_CRYPT_R /**/
?H:#define CRYPT_R_PROTO $crypt_r_proto /**/
?H:.
?T:try hdrs d_crypt_r_proto
: see if crypt_r exists
set crypt_r d_crypt_r
eval $inlibc
case "$d_crypt_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_crypt crypt.h"
```

```
 case "$d_crypt_r_proto:$usethreads" in
 ":define") d_crypt_r_proto=define
  set d_crypt_r_proto crypt_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_crypt_r_proto" in
 define)
 case "$crypt_r_proto" in
 "|0) try='char* crypt_r(const char*, const char*, struct crypt_data*);'
 ./protochk "$extern_C $try" $hdrs && crypt_r_proto=B_CCS ;;
 esac
 case "$crypt_r_proto" in
 "|0) try='char* crypt_r(const char*, const char*, CRYPTD*);'
 ./protochk "$extern_C $try" $hdrs && crypt_r_proto=B_CCD ;;
 esac
 case "$crypt_r_proto" in
 "|0) d_crypt_r=undef
  crypt_r_proto=0
  echo
 "Disabling crypt_r, cannot determine prototype." >&4 ;;
 * ) case "$crypt_r_proto" in
  REENTRANT_PROTO*) ;;
  *) crypt_r_proto="REENTRANT_PROTO_$crypt_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "crypt_r has no prototype, not using it." >&4 ;;
  esac
  d_crypt_r=undef
  crypt_r_proto=0
  ;;
 esac
 ;;
*) crypt_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_crypt_r.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: nblock_io.U,v 3.0.1.2 1997/02/28 16:17:14 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi

```
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: nblock_io.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:17:14  ram
?RCS: patch61: simplify here document for shells that can't handle them well
?RCS: patch61: force use of "startsh" at the head of the generated script
?RCS: patch61: added new files to the ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  14:13:22  ram
?RCS: patch56: created
?RCS:
?X:
?X: Simplify here document for shells that can't handle them well.
?X: (Problem reported on FreeBSD;
 it's unclear if this helps.)  --AD
?X:
?MAKE:o_nonblock eagain rd_nodata d_eofnblk: cat rm_try Compile run \
 d_open3 h_sysfile h_fcntl signal_t hint Oldconfig Setvar \
 startsh i_unistd i_fcntl i_stdlib d_fork d_pipe d_alarm
?MAKE: -pick add $@ %<
?S:o_nonblock:
?S: This variable bears the symbol value to be used during open() or fcntl()
?S: to turn on non-blocking I/O for a file descriptor. If you wish to switch
?S: between blocking and non-blocking, you may try ioctl(FIOSNBIO) instead,
?S: but that is only supported by some devices.
?S:.
?S:eagain:
?S: This variable bears the symbolic errno code set by read() when no
?S: data is present on the file and non-blocking I/O was enabled (otherwise,
?S: read() blocks naturally).
?S:.
?S:rd_nodata:
?S: This variable holds the return code from read() when no data is
?S: present. It should be -1, but some systems return 0 when O_NDELAY is
?S: used, which is a shame because you cannot make the difference between
?S: no data and an EOF.. Sigh!
?S:.
?S:d_eofnblk:
?S: This
 variable conditionally defines EOF_NONBLOCK if EOF can be seen
?S: when reading from a non-blocking I/O source.
?S:.
?C:VAL_O_NONBLOCK:
```

```
?C: This symbol is to be used during open() or fcntl(F_SETFL) to turn on
?C: non-blocking I/O for the file descriptor. Note that there is no way
?C: back, i.e. you cannot turn it blocking again this way. If you wish to
?C: alternatively switch between blocking and non-blocking, use the
?C: ioctl(FIOSNBIO) call instead, but that is not supported by all devices.
?C:.
?C:VAL_EAGAIN:
?C: This symbol holds the errno error code set by read() when no data was
?C: present on the non-blocking file descriptor.
?C:.
?C:RD_NODATA:
?C: This symbol holds the return code from read() when no data is present
?C: on the non-blocking file descriptor. Be careful! If EOF_NONBLOCK is
?C: not defined, then you can't distinguish between no data and EOF by
?C: issuing a read(). You'll have to find another way to tell for sure!
?C:.
?C:EOF_NONBLOCK:
?C: This
 symbol, if defined, indicates to the C program that a read() on
?C: a non-blocking file descriptor will return 0 on EOF, and not the value
?C: held in RD_NODATA (-1 usually, in that case!).
?C:.
?H:#define VAL_O_NONBLOCK $o_nonblock
?H:#define VAL_EAGAIN $eagain
?H:#define RD_NODATA $rd_nodata
?H:#$d_eofnblk EOF_NONBLOCK
?H:.
?T:status
?F:!try.out !try.ret !try.err !try !mtry
?LINT:use d_open3
: check for non-blocking I/O stuff
case "$h_sysfile" in
true) echo "#include <sys/file.h>" > head.c;;
*)
	case "$h_fcntl" in
	true) echo "#include <fcntl.h>" > head.c;;
	*) echo "#include <sys/fcntl.h>" > head.c;;
	esac
	;;
esac
echo " "
echo "Figuring out the flag used by open() for non-blocking I/O..." >&4
case "$o_nonblock" in
")
 $cat head.c > try.c
 $cat >>try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
```

```
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_fcntl I_FCNTL
#ifdef I_FCNTL
#include <fcntl.h>
#endif
int main() {
#ifdef O_NONBLOCK
 printf("O_NONBLOCK\n");
 exit(0);
#endif
#ifdef
 O_NDELAY
 printf("O_NDELAY\n");
 exit(0);
#endif
?X: Stevens "Advanced Programming in the UNIX Environment" page 364 mentions
?X: the FNDELAY symbol, used in 4.3BSD (source: Paul Marquess).
#ifdef FNDELAY
 printf("FNDELAY\n");
 exit(0);
#endif
 exit(0);
}
EOCP
 set try
 if eval $compile_ok; then
  o_nonblock=`$run ./try`
  case "$o_nonblock" in
  ") echo "I can't figure it out, assuming O_NONBLOCK will do.";;
  *) echo "Seems like we can use $o_nonblock.";;
  esac
 else
  echo "(I can't compile the test program; pray O_NONBLOCK is right!)"
 fi
 ;;
*) echo "Using $hint value $o_nonblock.";;
esac
$rm_try

echo " "
echo "Let's see what value errno gets from read() on a $o_nonblock file..." >&4
case "$eagain" in
")
 case "$d_fork:$d_pipe:$d_alarm" in
 define:define:define)
 $cat head.c > try.c
```

```
 $cat >>try.c <<EOCP
#include <errno.h>
#include <sys/types.h>
#include <signal.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_fcntl
 I_FCNTL
#ifdef I_FCNTL
#include <fcntl.h>
#endif
#define MY_O_NONBLOCK $o_nonblock
#ifndef errno  /* XXX need better Configure test */
extern int errno;
#endif
#$i_unistd I_UNISTD
#ifdef I_UNISTD
#include <unistd.h>
#endif
#include <string.h>
$signal_t blech(int x) { exit(3); }
EOCP
 $cat >> try.c <<'EOCP'
int main()
{
 int pd[2];
 int pu[2];
 char buf[1];
 char string[100];
 int ret;

 ret = pipe(pd); /* Down: child -> parent */
 if (ret != 0)
  exit(3);
 ret = pipe(pu); /* Up: parent -> child */
 if (ret != 0)
  exit(3);
 if (0 != fork()) {
  close(pd[1]); /* Parent reads from pd[0] */
  close(pu[0]); /* Parent writes (blocking) to pu[1] */
#ifdef F_SETFL
  if (-1 == fcntl(pd[0], F_SETFL, MY_O_NONBLOCK))
   exit(1);
#else
  exit(4);
```

```
#endif
  signal(SIGALRM, blech);
  alarm(5);
  if ((ret = read(pd[0], buf, 1)) > 0) /* Nothing to read! */
   exit(2);
  sprintf(string, "%d\n", ret);
  ret = write(2, string, strlen(string));
  if (ret != strlen(string))
   exit(3);
  alarm(0);
#ifdef
 EAGAIN
  if (errno == EAGAIN) {
   printf("EAGAIN\n");
   goto ok;
  }
#endif
#ifdef EWOULDBLOCK
  if (errno == EWOULDBLOCK)
   printf("EWOULDBLOCK\n");
#endif
 ok:
  ret = write(pu[1], buf, 1); /* Unblocks child, tell it to close our pipe */
  if (ret != 1)
   exit(3);
  sleep(2);    /* Give it time to close our pipe */
  alarm(5);
  ret = read(pd[0], buf, 1); /* Should read EOF */
  alarm(0);
  sprintf(string, "%d\n", ret);
  ret = write(4, string, strlen(string));
  if (ret != strlen(string))
   exit(3);
  exit(0);
 }

 close(pd[0]);   /* We write to pd[1] */
 close(pu[1]);   /* We read from pu[0] */
 ret = read(pu[0], buf, 1); /* Wait for parent to signal us we may continue */
 if (ret != 1)
  exit(3);
 close(pd[1]);   /* Pipe pd is now fully closed! */
 exit(0);    /* Bye bye, thank you for playing! */
}
EOCP
 set try
 if eval $compile_ok; then
?X: Use script to avoid the possible 'alarm call' message
```

```
 echo "$startsh" >mtry
 echo "$run ./try >try.out 2>try.ret 4>try.err
|| exit 4" >>mtry
 chmod +x mtry
 $run ./mtry >/dev/null 2>&1
 case $? in
 0) eagain=`$cat try.out`;;
 1) echo "Could not perform non-blocking setting!";;
 2) echo "I did a successful read() for something that was not there!";;
 3) echo "Hmm... non-blocking I/O does not seem to be working!";;
 4) echo "Could not find F_SETFL!";;
 *) echo "Something terribly wrong happened during testing.";;
 esac
 rd_nodata=`$cat try.ret`
 echo "A read() system call with no data present returns $rd_nodata."
 case "$rd_nodata" in
 0|-1) ;;
 *)
  echo "(That's peculiar, fixing that to be -1.)"
  rd_nodata=-1
  ;;
 esac
 case "$eagain" in
 ")
  echo "Forcing errno EAGAIN on read() with no data available."
  eagain=EAGAIN
  ;;
 *)
  echo "Your read() sets errno to $eagain when no data is available."
  ;;
 esac
 status=`$cat try.err`
 case "$status" in
 0) echo "And it correctly returns 0 to signal EOF.";;
 -1) echo "But it also returns -1 to signal EOF, so be careful!";;
 *)
echo "However, your read() returns '$status' on EOF??";;
 esac
 val="$define"
 if test "$status" = "$rd_nodata"; then
  echo "WARNING: you can't distinguish between EOF and no data!"
  val="$undef"
 fi
else
 echo "I can't compile the test program--assuming errno EAGAIN will do."
 eagain=EAGAIN
fi
;;
```

```
 *) echo "Can't figure out how to test this--assuming errno EAGAIN will do."
  eagain=EAGAIN
  val="$define"
  ;;
 esac
 set d_eofnblk
 eval $setvar
 ;;
*)
 echo "Using $hint value $eagain."
 echo "Your read() returns $rd_nodata when no data is present."
 case "$d_eofnblk" in
 "$define") echo "And you can see EOF because read() returns 0.";;
 "$undef") echo "But you can't see EOF status from read() returned value.";;
 *)
?X: Should not happen, but if it does, assume the worst!
  echo "(Assuming you can't see EOF status from read anyway.)"
  d_eofnblk=$undef
  ;;
 esac
 ;;
esac
$rm_try head.c mtry
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/nblock_io.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: longsize.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: longsize.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:09:35  ram
?RCS: patch61: code moved to intsize.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:24:31  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:07  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?X:
?X: 'longsize' is now defined within intsize.U
?X:
?LINT: empty
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/longsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:gccversion gccosandvers gccansipedantic: cat cpp rm +cc \
 Myread Guess Options Oldconfig Loc osname osvers run
?MAKE: -pick add $@ %<
?S:gccversion:
?S: If GNU cc (gcc) is used, this variable holds '1' or '2' to
?S: indicate whether the compiler is version 1 or 2.  This is used in
?S: setting some of the default cflags.  It is set to '' if not gcc.
?S:.
?S:gccosandvers:
?S: If GNU cc (gcc) is used, this variable holds the operating system
?S: and version used to compile gcc.  It is set to '' if not gcc,
?S: or if
 nothing useful can be parsed as the os version.
?S:.
?S:gccansipedantic:
?S: If GNU cc (gcc) is used, this variable will enable (if set) the
?S: -ansi and -pedantic ccflags for building core files (through
?S: cflags script). (See Porting/pumpkin.pod for full description).
?S:.
?D:gccversion=''
?D:gccansipedantic=''
?T:gccshortvers
?T:incdir
?T:warn
?F:!try
?LINT:change cpp
?LINT:extern ccflags
```

```
?LINT:extern ldflags
?LINT:extern locincpth
?LINT:extern ccname
?LINT:change ccname
?LINT:change locincpth
?LINT:change ccflags
?LINT:set gccansipedantic
?X: Check if they have gcc in any guise.
: Check if we are using GNU gcc and what its version is
echo " "
echo "Checking for GNU cc in disguise and/or its version number..." >&4
$cat >try.c <<EOM
#include <stdio.h>
int main() {
#if defined(__GNUC__) && !defined(__INTEL_COMPILER)
#ifdef __VERSION__
 printf("%s\n", __VERSION__);
#else
 printf("%s\n", "1");
#endif
#endif
 return(0);
}
EOM
if $cc -o try $ccflags $ldflags try.c; then
 gccversion=`$run
 ./try`
 case "$gccversion" in
 ") echo "You are not using GNU cc." ;;
 *)  echo "You are using GNU cc $gccversion."
     ccname=gcc
     ;;
 esac
else
 echo " "
 echo "*** WHOA THERE!!! ***" >&4
 echo "    Your C compiler \"$cc\" doesn't seem to be working!" >&4
?X: using -K will prevent aborting--maybe they're cross compiling?
 case "$knowitall" in
 ")
 echo "    You'd better start hunting for one and let me know about it." >&4
  exit 1
  ;;
 esac
fi
$rm -f try try.*
case "$gccversion" in
1.*) cpp=`./loc gcc-cpp $cpp $pth` ;;
```

```
esac
case "$gccversion" in
") gccosandvers=" ;;
*) gccshortvers=`echo "$gccversion"|sed 's/ .*//'`
  gccosandvers=`$cc -v 2>&1|grep '/specs$'|sed "s!.*/[^-/]*-[^-/]*-\([^-/]*\)/$gccshortvers/specs!\1!"`
  gccshortvers="
  case "$gccosandvers" in
  $osname) gccosandvers=" ;; # linux gccs seem to have no linux osvers, grr
  $osname$osvers) ;; # looking good
  $osname*) cat <<EOM >&4

*** WHOA THERE!!! ***

   Your gcc has not been compiled for the exact
 release of
   your operating system ($gccosandvers versus $osname$osvers).

   In general it is a good idea to keep gcc synchronized with
   the operating system because otherwise serious problems
   may ensue when trying to compile software, like Perl.

   I'm trying to be optimistic here, though, and will continue.
   If later during the configuration and build icky compilation
   problems appear (headerfile conflicts being the most common
   manifestation), I suggest reinstalling the gcc to match
   your operating system release.

EOM
     ;;
  *) gccosandvers=" ;; # failed to parse, better be silent
  esac
  ;;
esac
case "$ccname" in
") ccname="$cc" ;;
esac

# gcc 3.* complain about adding -Idirectories that they already know about,
# so we will take those off from locincpth.
case "$gccversion" in
3.*)
   echo "main(){}">try.c
   for incdir in $locincpth; do
      warn=`$cc $ccflags -I$incdir -c try.c 2>&1 | \
      grep '^c[cp]p*[01]: warning: changing search
 order '`
      if test "X$warn" != X; then
    locincpth=`echo " $locincpth " | sed "s! $incdir ! !"`
```

```
    fi
  done
  $rm -f try try.*
esac

# gcc 4.9 by default does some optimizations that break perl.
# see ticket 121505.
#
# The -fwrapv disables those optimizations (and probably others,) so
# for gcc 4.9 (and later, since the optimizations probably won't go
# away), add -fwrapv unless the user requests -fno-wrapv, which
# disables -fwrapv, or if the user requests -fsanitize=undefined,
# which turns the overflows -fwrapv ignores into runtime errors.
case "$gccversion" in
4.[3-9].*|4.[1-9][0-9]*|[5-9].*|[1-9][0-9]*)
  case "$ccflags" in
  *-fno-wrapv*|*-fsanitize=undefined*|*-fwrapv*) ;;
  *) ccflags="$ccflags -fwrapv" ;;
  esac
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/gccvers.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strerror_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_strerror_r strerror_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads extern_C
?MAKE: -pick add $@ %<
?S:d_strerror_r:
?S: This variable conditionally defines the HAS_STRERROR_R symbol,
?S: which indicates to the C program that the strerror_r()
?S: routine is available.
?S:.
?S:strerror_r_proto:
?S: This variable encodes the prototype of strerror_r.
?S: It is zero if d_strerror_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_strerror_r
?S: is defined.
?S:.
```

```
?C:HAS_STRERROR_R:
?C: This symbol, if defined, indicates that the strerror_r routine
?C: is available to strerror
 re-entrantly.
?C:.
?C:STRERROR_R_PROTO:
?C: This symbol encodes the prototype of strerror_r.
?C: It is zero if d_strerror_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_strerror_r
?C: is defined.
?C:.
?H:#$d_strerror_r HAS_STRERROR_R /**/
?H:#define STRERROR_R_PROTO $strerror_r_proto /**/
?H:.
?T:try hdrs d_strerror_r_proto
: see if strerror_r exists
set strerror_r d_strerror_r
eval $inlibc
case "$d_strerror_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h define string.h"
 case "$d_strerror_r_proto:$usethreads" in
 ":define") d_strerror_r_proto=define
  set d_strerror_r_proto strerror_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_strerror_r_proto" in
 define)
 case "$strerror_r_proto" in
 "|0) try='int strerror_r(int, char*, size_t);'
 ./protochk "$extern_C $try" $hdrs && strerror_r_proto=I_IBW ;;
 esac
 case "$strerror_r_proto" in
 "|0) try='int strerror_r(int, char*, int);'
 ./protochk "$extern_C $try" $hdrs && strerror_r_proto=I_IBI
 ;;
 esac
 case "$strerror_r_proto" in
 "|0) try='char* strerror_r(int, char*, size_t);'
 ./protochk "$extern_C $try" $hdrs && strerror_r_proto=B_IBW ;;
 esac
 case "$strerror_r_proto" in
 "|0) d_strerror_r=undef
  strerror_r_proto=0
  echo "Disabling strerror_r, cannot determine prototype." >&4 ;;
 * ) case "$strerror_r_proto" in
  REENTRANT_PROTO*) ;;
```

```
  *) strerror_r_proto="REENTRANT_PROTO_$strerror_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "strerror_r has no prototype, not using it." >&4 ;;
  esac
  d_strerror_r=undef
  strerror_r_proto=0
  ;;
 esac
 ;;
*) strerror_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_strerror_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extractall.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:00:43  ram
?RCS: patch61: created
?RCS:
?X:
?X: If extraction has been requested, load the configuration file, perform
?X: the extraction and exit.
?X:
?X: This unit was originally a part of Options.U. It had to be removed from
?X: it to prevent a dependency cycle: Extract -> src -> Options -> Extract
?X: The Begin.U unit now requires us before beginning to do anything
?X: interesting, to ensure proper semantics. -- RAM, 15/03/96
?X:
?MAKE:Extractall:
 Extract Options
?MAKE: -pick wipe $@ %<
```

```
: extract files and exit if asked to do so
case "$extractsh" in
true)
?X: Undo the forced silent=true when -S was supplied, by probing realsilent
?X: which was set iff -s was also given. See Options.U for details.
 case "$realsilent" in
 true) ;;
 *) exec 1>&4;;
 esac
 case "$config_sh" in
 ") config_sh='config.sh';;
 esac
 echo " "
 echo "Fetching answers from $config_sh..."
 cd ..
 . $config_sh
 test "$override" && . ./optdef.sh
 echo " "
?X: extract has to be run from the top directory, not within UU.
 . UU/extract
 rm -rf UU
 echo "Extraction done."
 exit 0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Extractall.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_rint: Inlibc
?MAKE: -pick add $@ %<
?S:d_rint:
?S: This variable conditionally defines the HAS_RINT symbol, which
?S: indicates to the C program that the rint() routine is available.
?S:.
?C:HAS_RINT:
?C: This symbol, if defined, indicates that the rint routine is
?C: available to return the nearest integral value to x as double
?C: using the current rounding mode.
?C:.
?H:#$d_rint HAS_RINT  /**/
?H:.
?LINT:set d_rint
```

```
: see if rint exists
set rint d_rint
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_rint.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: ccflags.U,v 3.0.1.9 1997/02/28 15:27:07 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: ccflags.U,v $
?RCS: Revision 3.0.1.9  1997/02/28  15:27:07  ram
?RCS: patch61: removed support for NO_PROTOTYPE detection on SCO
?RCS: patch61: new locincpth variable
?RCS: patch61: added info on the "additional ld flags" question
?RCS:
?RCS: Revision 3.0.1.8  1995/07/25  13:48:54  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.7  1995/05/12  12:08:33  ram
?RCS: patch54: now checks for cc/ccflags/ldflags
 coherency
?RCS:
?RCS: Revision 3.0.1.6  1994/10/29  16:07:02  ram
?RCS: patch36: gcc versioning no longer relies on the C compiler's name
?RCS: patch36: simplified check for gcc version checking (ADO)
?RCS:
?RCS: Revision 3.0.1.5  1994/08/29  16:06:35  ram
?RCS: patch32: propagate -posix flag from ccflags to ldflags
?RCS:
?RCS: Revision 3.0.1.4  1994/05/06  14:28:45  ram
?RCS: patch23: -fpcc-struct-return only needed in gcc 1.x (ADO)
?RCS: patch23: cppflags now computed on an option-by-option basis
?RCS: patch23: magically added cc flags now only done the first time
?RCS:
?RCS: Revision 3.0.1.3  1993/09/13  15:58:29  ram
?RCS: patch10: explicitly mention -DDEBUG just in case they need it (WAD)
?RCS: patch10: removed all the "tans" variable usage (WAD)
?RCS:
```

```
?RCS: Revision 3.0.1.2  1993/08/27  14:39:38  ram
?RCS: patch7: added support for OSF/1 machines
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:00:24  ram
?RCS: patch6: added defaults for cppflags, ccflags and ldflags
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:05:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:ccflags ldflags lkflags cppflags optimize locincpth: test cat \
 Myread Guess Options Oldconfig +gccversion mips_type +usrinc \
 package contains rm +cc cppstdin cppminus cpprun cpplast libpth \
 libs loclibpth hint usesocks sh run rm_try sysroot
?MAKE: -pick add $@ %<
?S:ccflags:
?S: This variable contains any additional C compiler flags desired by
?S: the user.  It is up to the Makefile to use this.
?S:.
?S:cppflags:
?S: This variable holds the flags that will be passed to the C pre-
?S: processor. It is up to the Makefile to use it.
?S:.
?S:optimize:
?S: This variable contains any optimizer/debugger flag that should be used.
?S: It is up to the Makefile to use it.
?S:.
?S:ldflags:
?S: This variable contains any additional C loader flags desired by
?S: the user.  It is up to the Makefile to use this.
?S:.
?S:lkflags:
?S: This variable contains any additional C partial linker flags desired
 by
?S: the user.  It is up to the Makefile to use this.
?S:.
?S:locincpth:
?S: This variable contains a list of additional directories to be
?S: searched by the compiler.  The appropriate '-I' directives will
?S: be added to ccflags.  This is intended to simplify setting
?S: local directories from the Configure command line.
?S: It's not much, but it parallels the loclibpth stuff in libpth.U.
?S:.
?T:inctest thisincl xxx inclwanted ftry previous thislibdir
?T:EBUGGING DEBUGGING
?T:check flag callback checkccflag
?F:!cpp.c !gcctest !try
?D:cppflags="
```

```
?D:ccflags="
?D:ldflags="
?D:optimize="
?LINT:extern _sysroot
?INIT:: Possible local include directories to search.
?INIT:: Set locincpth to "" in a hint file to defeat local include searches.
?INIT:locincpth="/usr/local/include /opt/local/include /usr/gnu/include"
?INIT:locincpth="$locincpth /opt/gnu/include /usr/GNU/include /opt/GNU/include"
?INIT::
?INIT:: no include file wanted by default
?INIT:inclwanted="
?INIT:
?INIT:: Enable
 -DEBUGGING and -DDEBUGGING from the command line
?INIT:EBUGGING="
?INIT:DEBUGGING="
?INIT:
: determine optimization, if desired, or use for debug flag also
?X: Allow for Configure -Uoptimize -- it's not strictly sensible, but
?X: it has happened and we know what they mean.   AD  2/16/98
case "$optimize" in
' '|$undef) dflt='none';;
") dflt='-O';;
*) dflt="$optimize";;
esac
$cat <<EOH

By default, $package compiles with the -O flag to use the optimizer.
Alternately, you might want to use the symbolic debugger, which uses
the -g flag (on traditional Unix systems).  Either flag can be
specified here.  To use neither flag, specify the word "none".

EOH
rp="What optimizer/debugger flag should be used?"
. ./myread
optimize="$ans"
case "$optimize" in
'none') optimize=" ";;
esac

: Check what DEBUGGING is required from the command line
: -DEBUGGING      or -DDEBUGGING or
: -DEBUGGING=both   = -g + -DDEBUGGING
: -DEBUGGING=-g   or -Doptimize=-g = -g
: -DEBUGGING=none or -UDEBUGGING =
: -DEBUGGING=old
  or -DEBUGGING=default = ? $optimize
case "$EBUGGING" in
```

```
") ;;
*) DEBUGGING=$EBUGGING ;;
esac

case "$DEBUGGING" in
-g|both|$define)
   case "$optimize" in
 *-g*) ;;
 *)    optimize="$optimize -g" ;;
   esac ;;
none|$undef)
   case "$optimize" in
 *-g*) set `echo "X $optimize " | sed 's/ -g / /'`
  shift
  optimize="$*"
  ;;
   esac ;;
esac

dflt=''
case "$DEBUGGING" in
both|$define) dflt='-DDEBUGGING'
esac

: argument order is deliberate, as the flag will start with - which set could
: think is an option
checkccflag='check=$1; flag=$2; callback=$3;
echo " ";
echo "Checking if your compiler accepts $flag" 2>&1;
[ "X$sysroot" != "X" ] && echo "For sysroot = $sysroot";
echo "int main(void) { return 0; }" > gcctest.c;
if $cc $_sysroot -O2 $flag -o gcctest gcctest.c 2>gcctest.out && $run ./gcctest; then
   echo "Yes, it does." 2>&1;
   if $test -s gcctest.out ; then
       echo "But your platform does not like it:";
       cat gcctest.out;
   else
 case "$ccflags" in
 *$check*)

    echo "Leaving current flags $ccflags alone." 2>&1
     ;;
 *) dflt="$dflt $flag";
     eval $callback
     ;;
 esac
   fi
else
```

```
   echo "Nope, it does not, but that is ok." 2>&1;
fi
'

: We will not override a previous value, but we might want to
: augment a hint file
case "$hint" in
default|recommended)
 case "$gccversion" in
 1.*) dflt="$dflt -fpcc-struct-return" ;;
 esac
 case "$optimize:$DEBUGGING" in
 *-g*:old) dflt="$dflt -DDEBUGGING";;
 esac
?X: check for POSIXized ISC
 case "$gccversion" in
 2.*) if $test -d /etc/conf/kconfig.d &&
   $contains _POSIX_VERSION $usrinc/sys/unistd.h >/dev/null 2>&1
  then
   # Interactive Systems (ISC) POSIX mode.
   dflt="$dflt -posix"
  fi
  ;;
 esac
?X: If the user has gcc-2.95 or greater, try adding -fno-strict-alias.
?X: Since the gcc "version" can be non-numeric, e.g.
?X: "2.95.1 19990809 (prerelease)" , we'll do the test on any version
?X: greater than 2.8.
?X: --Andy Dougherty  27 Aug 1999
 case "$gccversion" in
 1.*) ;;
 2.[0-8]*)
 ;;
 ?*) set strict-aliasing -fno-strict-aliasing
  eval $checkccflag
  ;;
 esac
?X: HMB 200405
?X: -pipe has shown a compile time speedup of about 40% on Linux and HP-UX
?X: and also worked on cygwin-1.5.9
?X: If a system fails, disable it in the hints. 99% of gcc uses binutils
 # For gcc, adding -pipe speeds up compilations for some, but apparently
 # some assemblers can't read from stdin.  (It also slows down compilations
 # in other cases, but those are apparently rarer these days.)  AD 5/2004.
 case "$gccversion" in
 ?*) set pipe -pipe
  eval $checkccflag
  ;;
```

```
 esac

?X: NWC 200712
 # on x86_64 (at least) we require an extra library (libssp) in the
 # link command line. This library is not named, so I infer that it is
 # an implementation detail that may change. Hence the safest approach
 # is to add the flag to the flags passed to the compiler at link time,
 # as that way the compiler can do the right implementation dependant
 # thing. (NWC)
 case "$ccflags" in
 *-fno-stack-protector*)

    echo "Do not add -fstack-protector nor -fstack-protector-strong" 2>&1
     ;;
 *) case "$gccversion" in
    ?*) set stack-protector-strong -fstack-protector-strong
  eval $checkccflag
  case "$dflt" in
  *-fstack-protector-strong*) ;; # It got added.
  *) # Try the plain/older -fstack-protector.
     set stack-protector -fstack-protector
     eval $checkccflag
     ;;
  esac
  ;;
     esac
     ;;
 esac
esac

?X: In USG mode, a MIPS system may need some BSD includes
case "$mips_type" in
*BSD*|") inclwanted="$locincpth $usrinc";;
*) inclwanted="$locincpth $inclwanted $usrinc/bsd";;
esac
for thisincl in $inclwanted; do
 if $test -d $thisincl; then
  if $test x$thisincl != x$usrinc; then
   case "$dflt" in
   *" -I$thisincl "*);;
   *) dflt="$dflt -I$thisincl ";;
   esac
  fi
 fi
done

?X: Include test function (header, symbol)
inctest='if $contains $2 $usrinc/$1 >/dev/null 2>&1; then
```

```
 xxx=true;
elif $contains $2 $usrinc/sys/$1 >/dev/null 2>&1; then
 xxx=true;
else
 xxx=false;
fi;
if
 $xxx; then
 case "$dflt" in
 *$2*);;
 *) dflt="$dflt -D$2";;
 esac;
fi'

set signal.h LANGUAGE_C; eval $inctest

case "$usesocks" in
$define)
 ccflags="$ccflags -DSOCKS"
 ;;
esac

case "$hint" in
default|recommended) dflt="$ccflags $dflt" ;;
*) dflt="$ccflags";;
esac

case "$dflt" in
"|' ') dflt=none;;
esac

$cat <<EOH

Your C compiler may want other flags.  For this question you should include
-I/whatever and -DWHATEVER flags and any other flags used by the C compiler,
but you should NOT include libraries or ld flags like -lwhatever.  If you
want $package to honor its debug switch, you should include -DDEBUGGING here.
Your C compiler might also need additional flags, such as -D_POSIX_SOURCE.

To use no flags, specify the word "none".

EOH
?X: strip leading space
set X $dflt
shift
dflt=${1+"$@"}
rp="Any additional cc flags?"
. ./myread
```

```
case "$ans" in
none) ccflags="";;
*) ccflags="$ans";;
esac

: the following weeds options from ccflags that are of no interest to cpp
case
 "$cppflags" in
") cppflags="$ccflags" ;;
*)  set X $ccflags; shift
   case " $cppflags " in
   *" $1 "*) ;;  # Try to avoid doubling the cppflags.
   *) cppflags="$cppflags $ccflags" ;;
   esac
   ;;
esac
case "$gccversion" in
1.*) cppflags="$cppflags -D__GNUC__"
esac
case "$mips_type" in
");;
*BSD*) cppflags="$cppflags -DSYSTYPE_BSD43";;
esac
case "$cppflags" in
");;
*)
 echo " "
 echo "Let me guess what the preprocessor flags are..." >&4
 set X $cppflags
 shift
 cppflags="
 $cat >cpp.c <<'EOM'
#define BLURFL foo

BLURFL xx LFRULB
EOM
?X:
?X: For each cc flag, try it out with both cppstdin and cpprun, since the
?X: first is almost surely a cc wrapper. We have to try both in case
?X: of cc flags like '-Olimit 2900' that are actually two words...
?X:
 previous="
 for flag in $*
 do
  case "$flag" in
  -*) ftry="$flag";;
  *) ftry="$previous $flag";;
  esac
```

```
  if $cppstdin -DLFRULB=bar $cppflags $ftry $cppminus <cpp.c \
   >cpp1.out 2>/dev/null && \
   $cpprun -DLFRULB=bar $cppflags
 $ftry $cpplast <cpp.c \
   >cpp2.out 2>/dev/null && \
   $contains 'foo.*xx.*bar' cpp1.out >/dev/null 2>&1 && \
   $contains 'foo.*xx.*bar' cpp2.out >/dev/null 2>&1
  then
   cppflags="$cppflags $ftry"
   previous=''
  else
   previous="$flag"
  fi
 done
 set X $cppflags
 shift
 cppflags=${1+"$@"}
 case "$cppflags" in
 *-*)  echo "They appear to be: $cppflags";;
 esac
 $rm -f cpp.c cpp?.out
 ;;
esac

: flags used in final linking phase
case "$ldflags" in
'') if ./venix; then
  dflt='-i -z'
 else
  dflt=''
 fi
 case "$ccflags" in
 *-posix*) dflt="$dflt -posix" ;;
 esac
 ;;
*) dflt="$ldflags";;
esac
# See note above about -fstack-protector
case "$ccflags" in
*-fstack-protector-strong*)
 case "$dflt" in
 *-fstack-protector-strong*) ;; # Don't add it again
 *) dflt="$dflt -fstack-protector-strong" ;;
 esac
 ;;
*-fstack-protector*)
 case "$dflt" in
 *-fstack-protector*) ;; # Don't add it again
```

```
 *) dflt="$dflt -fstack-protector" ;;
 esac
 ;;
esac

: Try to guess additional flags to
 pick up local libraries.
for thislibdir in $libpth; do
 case " $loclibpth " in
 *" $thislibdir "*)
  case "$dflt " in
  *"-L$thislibdir "*) ;;
  *)  dflt="$dflt -L$thislibdir" ;;
  esac
  ;;
 esac
done

case "$dflt" in
") dflt='none' ;;
esac

$cat <<EOH

Your C linker may need flags.  For this question you should
include -L/whatever and any other flags used by the C linker, but you
should NOT include libraries like -lwhatever.

Make sure you include the appropriate -L/path flags if your C linker
does not normally search all of the directories you specified above,
namely
 $libpth
To use no flags, specify the word "none".

EOH

rp="Any additional ld flags (NOT including libraries)?"
. ./myread
case "$ans" in
none) ldflags=";;
*) ldflags="$ans";;
esac
rmlist="$rmlist pdp11"

@if lkflags
: partial linking may need other flags
case "$lkflags" in
") case "$ldflags" in
```

```
 ") dflt='none';;
 *) dflt="$ldflags";;
 esac;;
*) dflt="$lkflags";;
esac
echo " "
rp="Partial linking flags to be used (NOT
 including -r)?"
. ./myread
case "$ans" in
none) lkflags="";;
*) lkflags="$ans";;
esac

@end
?X:
?X: If the user changes compilers after selecting a hint file, it's
?X: possible that the suggested ccflags/ldflags will be wrong.  Try to
?X: compile and run a simple test program.  Let the user see all the
?X: error messages. -- ADO and RAM
?X: Sometimes, particularly on Linux systems, there is a bad library
?X: (e.g. a dangling symlink or incompatible library or a "run-time"
?X: version but not a "development" version of a library).  This test
?X: will catch those sorts of problems too, though how to fix them
?X: may not be obvious.
?X:
: coherency check
echo " "
echo "Checking your choice of C compiler and flags for coherency..." >&4
$cat > try.c <<'EOF'
#include <stdio.h>
int main() { printf("Ok\n"); return(0); }
EOF
?X: Strip extra blanks in case some of the following variables are empty
set X $cc -o try $optimize $ccflags $ldflags try.c $libs
shift
$cat >try.msg <<'EOM'
I've tried
 to compile and run the following simple program:

EOM
$cat try.c >> try.msg

$cat >> try.msg <<EOM

I used the command:

 $*
```

```
 $run ./try
```

and I got the following output:

```
EOM
dflt=y
?X: Use "sh -c" to avoid error messages tagged with leading "Configure:".
?X: We need to try the resulting executable, because cc might yield a 0 status
?X: even when ld failed, in which case the executable will not run properly,
?X: if its x bit is set at all...
if $sh -c "$cc -o try $optimize $ccflags $ldflags try.c $libs" >>try.msg 2>&1; then
 if $sh -c "$run ./try " >>try.msg 2>&1; then
  xxx=`$run ./try`
  case "$xxx" in
  "Ok") dflt=n ;;
  *)    echo 'The program compiled OK, but produced no output.' >> try.msg ;;
  esac
 else
  echo "The program compiled OK, but exited with status $?." >>try.msg
  rp="You have a problem.  Shall I abort Configure"
  dflt=y
 fi
else
 echo "I can't compile the test program." >>try.msg
 rp="You have a BIG problem.  Shall I abort Configure"
 dflt=y
fi
case "$dflt" in
y)
 $cat
 try.msg >&4
?X: using -K will prevent default aborting--maybe they're cross compiling?
 case "$knowitall" in
 ")
  echo "(The supplied flags or libraries might be incorrect.)"
  ;;
 *) dflt=n;;
 esac
 echo " "
 . ./myread
 case "$ans" in
 n*|N*) ;;
 *) echo "Ok.  Stopping Configure." >&4
  exit 1
  ;;
 esac
 ;;
n) echo "OK, that should do.";;
```

```
esac
$rm_try gcctest gcctest.out
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/ccflags.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_copysignl: Inlibc
?MAKE: -pick add $@ %<
?S:d_copysignl:
?S: This variable conditionally defines the HAS_COPYSIGNL symbol, which
?S: indicates to the C program that the copysignl() routine is available.
?S: If aintl is also present we can emulate modfl.
?S:.
?C:HAS_COPYSIGNL:
?C: This symbol, if defined, indicates that the copysignl routine is
?C: available.  If aintl is also present we can emulate modfl.
?C:.
?H:#$d_copysignl HAS_COPYSIGNL  /**/
?H:.
?LINT:set d_copysignl
: see if copysignl exists
set copysignl d_copysignl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_copysignl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: pidtype.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:31:27  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:33  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:pidtype: Myread Typedef
?MAKE: -pick add $@ %<
?S:pidtype:
?S: This variable defines PIDTYPE to be something like pid_t, int,
?S: ushort, or whatever type is used to declare process ids in the kernel.
?S:.
?C:Pid_t (PIDTYPE):
?C: This symbol holds the type
 used to declare process ids in the kernel.
?C: It can be int, uint, pid_t, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Pid_t $pidtype  /* PID type */
?H:.
: see what type pids are declared as in the kernel
set pid_t pidtype int stdio.h sys/types.h
eval $typedef
dflt="$pidtype"
echo " "
rp="What type are process ids on this system declared as?"
. ./myread
pidtype="$ans"
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/pidtype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Prefixup.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Prefixup.U,v $
?RCS: Revision 3.0.1.1  1995/01/30  14:30:40  ram
?RCS: patch49: created
```

```
?RCS:
?X:
?X: Used as: "set dflt; eval $prefixup" to set $dflt to be $prefix/dir
?X: instead of $prefixexp/dir, in case portability was involved somehow
?X: and $prefix uses ~name expansion.
?X:
?MAKE:Prefixup: prefix prefixexp
?MAKE: -pick add $@ %<
?LINT:define prefixup
?S:prefixup:
?S: This shell variable is used internally by Configure to reset
?S: the leading
 installation prefix correctly when $prefix uses
?S: ~name expansion.
?S:  set dflt
?S:  eval $prefixup
?S: That will set $dflt to $prefix/dir if it was $prefixexp/dir and
?S: $prefix differs from $prefixexp.
?S:.
?V:prefixup
: set the prefixup variable, to restore leading tilda escape
prefixup='case "$prefixexp" in
"$prefix") ;;
*) eval "$1=\`echo \$$1 | sed \"s,^$prefixexp,$prefix,\"\`";;
esac'
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Prefixup.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getlogin_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getlogin_r getlogin_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_unistd extern_C
?MAKE: -pick add $@ %<
?S:d_getlogin_r:
?S: This variable conditionally defines the HAS_GETLOGIN_R symbol,
?S: which indicates to the C program that the getlogin_r()
?S: routine is available.
?S:.
?S:getlogin_r_proto:
```

```
?S: This variable encodes the prototype of getlogin_r.
?S: It is zero if d_getlogin_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getlogin_r
?S: is defined.
?S:.
?C:HAS_GETLOGIN_R:
?C: This symbol, if defined, indicates that the getlogin_r routine
?C: is available
 to getlogin re-entrantly.
?C:.
?C:GETLOGIN_R_PROTO:
?C: This symbol encodes the prototype of getlogin_r.
?C: It is zero if d_getlogin_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getlogin_r
?C: is defined.
?C:.
?H:#$d_getlogin_r HAS_GETLOGIN_R /**/
?H:#define GETLOGIN_R_PROTO $getlogin_r_proto /**/
?H:.
?T:try hdrs d_getlogin_r_proto
: see if getlogin_r exists
set getlogin_r d_getlogin_r
eval $inlibc
case "$d_getlogin_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_unistd unistd.h"
 case "$d_getlogin_r_proto:$usethreads" in
 ":define") d_getlogin_r_proto=define
  set d_getlogin_r_proto getlogin_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getlogin_r_proto" in
 define)
 case "$getlogin_r_proto" in
 "|0) try='int getlogin_r(char*, size_t);'
 ./protochk "$extern_C $try" $hdrs && getlogin_r_proto=I_BW ;;
 esac
 case "$getlogin_r_proto" in
 "|0) try='int getlogin_r(char*, int);'
 ./protochk "$extern_C $try" $hdrs && getlogin_r_proto=I_BI
 ;;
 esac
 case "$getlogin_r_proto" in
 "|0) try='char* getlogin_r(char*, size_t);'
 ./protochk "$extern_C $try" $hdrs && getlogin_r_proto=B_BW ;;
 esac
 case "$getlogin_r_proto" in
```

```
"|0) try='char* getlogin_r(char*, int);'
./protochk "$extern_C $try" $hdrs && getlogin_r_proto=B_BI ;;
esac
case "$getlogin_r_proto" in
"|0) d_getlogin_r=undef
 getlogin_r_proto=0
 echo "Disabling getlogin_r, cannot determine prototype." >&4 ;;
* ) case "$getlogin_r_proto" in
 REENTRANT_PROTO*) ;;
 *) getlogin_r_proto="REENTRANT_PROTO_$getlogin_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "getlogin_r has no prototype, not using it." >&4 ;;
 esac
 d_getlogin_r=undef
 getlogin_r_proto=0
 ;;
esac
;;
*) getlogin_r_proto=0
;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getlogin_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_mbstowcs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_mbstowcs.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:29  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_mbstowcs: Inlibc
?MAKE: -pick add $@ %<
?S:d_mbstowcs:
```

```
?S: This variable conditionally defines the HAS_MBSTOWCS symbol, which
?S: indicates to the C program that the mbstowcs() routine is available
?S: to convert a multibyte string into a wide character string.
?S:.
?C:HAS_MBSTOWCS (MBSTOWCS):
?C: This symbol, if defined, indicates
 that the mbstowcs routine is
?C: available to convert a multibyte string into a wide character string.
?C:.
?H:#$d_mbstowcs HAS_MBSTOWCS  /**/
?H:.
?LINT:set d_mbstowcs
: see if mbstowcs exists
set mbstowcs d_mbstowcs
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_mbstowcs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_mbtowc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_mbtowc.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:30  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_mbtowc: Inlibc
?MAKE: -pick add $@ %<
?S:d_mbtowc:
?S: This variable conditionally defines the HAS_MBTOWC symbol, which
?S: indicates to the C program that the mbtowc() routine is available
?S: to convert multibyte to a wide character.
?S:.
?C:HAS_MBTOWC (MBTOWC):
?C: This symbol, if defined, indicates that the mbtowc routine is available
?C: to
 convert a multibyte to a wide character.
?C:.
?H:#$d_mbtowc HAS_MBTOWC  /**/
```

```
?H:.
?LINT:set d_mbtowc
: see if mbtowc exists
set mbtowc d_mbtowc
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_mbtowc.U
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```
?RCS: $Id$
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extract.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  14:58:52  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:51:46  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which can be doted in order to extract
?X: .SH files with variable substitutions.
?X:
?X: When running Configure from a remote directory ($src
 is not '.'),
?X: then the files will be created in that directory, so beware!
?X:
?MAKE:Extract: Mkdirp src
?MAKE: -pick add $@ %<
?F:./extract
?T:CONFIG SRC dir file
: script used to extract .SH files with variable substitutions
cat >extract <<EOS
CONFIG=true
SRC="$src"
EOS
```

```
cat >>extract <<'EOS'
echo "Doing variable substitutions on .SH files..."
if test -f "$SRC/MANIFEST"; then
 set x `awk '{print $1}' <$SRC/MANIFEST | grep '\.SH'`
else
 echo "(Looking for .SH files under the source directory.)"
 set x `(cd "$SRC"; find . -name "*.SH" -print)`
fi
shift
case $# in
0) set x `(cd "$SRC"; echo *.SH)`; shift;;
esac
if test ! -f "$SRC/$1"; then
 shift
fi
for file in $*; do
 case "$SRC" in
 ".")
  case "$file" in
  */*)
   dir=`expr X$file : 'X\(.*\)/'`
   file=`expr X$file : 'X.*/\(.*\)'`
   (cd $dir && . ./$file)
   ;;
  *)
   . ./$file
   ;;
  esac
  ;;
 *)
?X:
?X: When running Configure remotely ($src is not '.'), we cannot source
?X: the files directly, since that would wrongly cause
 the extraction
?X: where the source lie instead of withing the current directory. Therefore,
?X: we need to 'sh <file' then, which is okay since they will source the
?X: existing config.sh file. It's not possible to use:
?X:  ../src/Configure -S -O -Dsomething
?X: unfortunately since no new config.sh with the -Dsomething override
?X: will be created before running the .SH files. A minor buglet.
?X:
?X: Note that we must create the directory hierarchy ourselves if it does
?X: not exist already, and that is done through a shell emulation of the
?X: 'mkdir -p' command. We don't want to use the $installdir metaconfig
?X: symbol here since that would require too much to be configured for
?X: this simple extraction task that may happen quickly with 'Configure -S'.
?X:  -- RAM, 18/03/96
?X:
```

```
  case "$file" in
  */*)
   dir=`expr X$file : 'X\(.*\)/'`
   file=`expr X$file : 'X.*/\(.*\)'`
   ./mkdirp $dir
   sh <"$SRC/$dir/$file"
   ;;
  *)
   sh <"$SRC/$file"
   ;;
  esac
  ;;
 esac
done
if
 test -f "$SRC/config_h.SH"; then
 if test ! -f config.h; then
?X: oops, they left it out of MANIFEST, probably, so do it anyway.
  sh <"$SRC/config_h.SH"
 fi
fi
EOS
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Extract.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_wifstat.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:47:43  ram
?RCS: patch61: added a ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  14:09:10  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.1  1995/03/21  08:47:46  ram
?RCS: patch52: created
?RCS:
```

```
?MAKE:d_wifstat: d_uwait +cc +ccflags +ldflags +libs Oldconfig cat rm
?MAKE: -pick add $@ %<
?S:d_wifstat:
?S: This symbol conditionally defines USE_WIFSTAT if the C program can
?S: safely
 use the WIFxxx macros with the kind of wait() parameter
?S: declared in the program (see UNION_WAIT), or if it can't. Should
?S: only matter on HP-UX, where the macros are incorrectly written and
?S: therefore cause programs using them with an 'union wait' variable
?S: to not compile properly.
?S:.
?C:USE_WIFSTAT:
?C: This symbol, if defined, indicates to the C program that the argument
?C: for the WIFxxx set of macros such as WIFSIGNALED or WIFEXITED can
?C: be of the same kind as the one used to hold the wait() status. Should
?C: only matter on HP-UX, where the macros are incorrectly written and
?C: therefore cause programs using them with an 'union wait' variable
?C: to not compile properly. See also UNION_WAIT.
?C:.
?H:#$d_wifstat USE_WIFSTAT  /**/
?H:.
?T:type
?F:!foo
: see if we can use WIFxxx macros
echo " "
case "$d_wifstat" in
"$define") echo "As before, you can safely use WIFEXITED and friends!" >&4;;
"$undef") echo "You still can't use WIFEXITED and friends!" >&4;;
*)
 echo
 "Let's see whether you can use the WIFEXITED(status) macro and its"
 case "$d_uwait" in
 "$define") type='union wait';;
 *) type='int';;
 esac
 echo "friends with status declared as '$type status'..."
 $cat >foo.c <<EOCP
#include <sys/types.h>
#include <sys/wait.h>

int main()
{
 $type status;
 int e = 0;

#ifdef WIFEXITED
 if (WIFEXITED(status))
  printf("\n");
```

```
 exit(0);
#else
 exit(2);
#endif
}
EOCP
 d_wifstat="$undef"
 if $cc $ccflags $ldflags -o foo foo.c $libs >/dev/null 2>&1; then
  if ./foo >/dev/null; then
   echo "Great! Looks like we can use the WIFxxx macros." >&4
   d_wifstat="$define"
  else
   echo "You don't seem to have WIFxxx macros, but that's ok." >&4
  fi
 else
  echo "Apparently you can't use WIFxxx macros properly." >&4
 fi
 $rm -f foo.* foo core
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_wifstat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: netdbtype.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: netdbtype.U,v $
?RCS:
?MAKE:netdb_host_type netdb_hlen_type netdb_name_type netdb_net_type: \
 Protochk Oldconfig Myread cat \
 d_gethbyaddr d_gethbyname d_getnbyaddr \
 i_niin i_netdb i_unistd d_socket sizetype extern_C
?MAKE: -pick add $@ %<
?S:netdb_host_type:
?S: This variable holds the type used for the 1st argument to
?S: gethostbyaddr().  Usually, this is char * or void *,  possibly
?S: with or without a const prefix.
?S: This is only useful if you have gethostbyaddr(), naturally.
?S:.
```

```
?S:netdb_hlen_type:
?S: This variable holds the type used for the 2nd argument to
?S: gethostbyaddr().  Usually,
 this is int or size_t or unsigned.
?S: This is only useful if you have gethostbyaddr(), naturally.
?S:.
?S:netdb_name_type:
?S: This variable holds the type used for the argument to
?S: gethostbyname().  Usually, this is char * or const char *.
?S: This is only useful if you have gethostbyname(), naturally.
?S:.
?S:netdb_net_type:
?S: This variable holds the type used for the 1st argument to
?S: getnetbyaddr().  Usually, this is int or long.
?S: This is only useful if you have getnetbyaddr(), naturally.
?S:.
?C:Netdb_host_t:
?C: This symbol holds the type used for the 1st argument
?C: to gethostbyaddr().
?C:.
?C:Netdb_hlen_t:
?C: This symbol holds the type used for the 2nd argument
?C: to gethostbyaddr().
?C:.
?C:Netdb_name_t:
?C: This symbol holds the type used for the argument to
?C: gethostbyname().
?C:.
?C:Netdb_net_t:
?C: This symbol holds the type used for the 1st argument to
?C: getnetbyaddr().
?C:.
?H:#define Netdb_host_t  $netdb_host_type /**/
?H:#define Netdb_hlen_t  $netdb_hlen_type
 /**/
?H:#define Netdb_name_t  $netdb_name_type /**/
?H:#define Netdb_net_t  $netdb_net_type /**/
?H:.
?T:xxx yyy try hdrs
@if netdb_host_type || Netdb_host_t || netdb_hlen_type || Netdb_hlen_t
: check for type of arguments to gethostbyaddr.
if test "X$netdb_host_type" = X -o "X$netdb_hlen_type" = X; then
 case "$d_gethbyaddr" in
 $define)
  $cat <<EOM

Checking to see what type of arguments are accepted by gethostbyaddr().
EOM
```

```
 hdrs="$define sys/types.h
  $d_socket sys/socket.h
  $i_niin netinet/in.h
  $i_netdb netdb.h
  $i_unistd unistd.h"
 : The first arg can 'char *' or 'void *'
 : The second arg is some of integral type
 for xxx in in_addr_t 'const void *' 'const char *' 'void *' 'char *'; do
  for yyy in size_t long int; do
   case "$netdb_host_type" in
   ") try="$extern_C struct hostent *gethostbyaddr($xxx, $yyy, int);"
    if ./protochk "$try" $hdrs; then
     echo "Your system accepts $xxx for the first arg."
     echo "...and $yyy for the second arg."
     netdb_host_type="$xxx"
     netdb_hlen_type="$yyy"
    fi
    ;;
   esac
  done
 done
 :
In case none of those worked, prompt the user.
 case "$netdb_host_type" in
 ") rp='What is the type for the 1st argument to gethostbyaddr?'
  dflt='char *'
  . ./myread
  netdb_host_type=$ans
  rp='What is the type for the 2nd argument to gethostbyaddr?'
  dflt="$sizetype"
  . ./myread
  netdb_hlen_type=$ans
  ;;
 esac
 ;;
*) : no gethostbyaddr, so pick harmless defaults
 netdb_host_type='char *'
 netdb_hlen_type="$sizetype"
 ;;
esac
# Remove the "const" if needed. -- but then we'll have a
# prototype clash!
# netdb_host_type=`echo "$netdb_host_type" | sed 's/^const //'`
fi
@end

@if netdb_name_type || Netdb_name_t
: check for type of argument to gethostbyname.
```

```
if test "X$netdb_name_type" = X ; then
 case "$d_gethbyname" in
 $define)
  $cat <<EOM

Checking to see what type of argument is accepted by gethostbyname().
EOM
  hdrs="$define sys/types.h
   $d_socket sys/socket.h
   $i_niin
 netinet/in.h
   $i_netdb netdb.h
   $i_unistd unistd.h"
  for xxx in "const char *" "char *"; do
   case "$netdb_name_type" in
   ") try="$extern_C struct hostent *gethostbyname($xxx);"
    if ./protochk "$try" $hdrs; then
     echo "Your system accepts $xxx."
     netdb_name_type="$xxx"
    fi
    ;;
   esac
  done
  : In case none of those worked, prompt the user.
  case "$netdb_name_type" in
  ") rp='What is the type for the 1st argument to gethostbyname?'
   dflt='char *'
   . ./myread
   netdb_name_type=$ans
   ;;
  esac
  ;;
 *) : no gethostbyname, so pick harmless default
  netdb_name_type='char *'
  ;;
 esac
fi
@end

@if netdb_net_type || Netdb_net_t
: check for type of 1st argument to getnetbyaddr.
if test "X$netdb_net_type" = X ; then
 case "$d_getnbyaddr" in
 $define)
  $cat <<EOM

Checking to see what type of 1st argument is accepted by getnetbyaddr().
EOM
```

```
  hdrs="$define sys/types.h
   $d_socket sys/socket.h
   $i_niin netinet/in.h
   $i_netdb netdb.h
   $i_unistd
 unistd.h"
  for xxx in in_addr_t "unsigned long" long "unsigned int" int; do
   case "$netdb_net_type" in
   ") try="$extern_C struct netent *getnetbyaddr($xxx, int);"
    if ./protochk "$try" $hdrs; then
     echo "Your system accepts $xxx."
     netdb_net_type="$xxx"
    fi
    ;;
   esac
  done
  : In case none of those worked, prompt the user.
  case "$netdb_net_type" in
  ") rp='What is the type for the 1st argument to getnetbyaddr?'
   dflt='long'
   . ./myread
   netdb_net_type=$ans
   ;;
  esac
  ;;
 *) : no getnetbyaddr, so pick harmless default
  netdb_net_type='long'
  ;;
 esac
fi
@end
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/netdbtype.U
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```
?RCS: $Id$
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fpclass: Inlibc
?MAKE: -pick add $@ %<
?S:d_fpclass:
?S: This variable conditionally defines the HAS_FPCLASS symbol, which
```

```
?S: indicates to the C program that the fpclass() routine is available.
?S:.
?C:HAS_FPCLASS:
?C: This symbol, if defined, indicates that the fpclass routine is
?C: available to classify doubles.  Available for example in Solaris/SVR4.
?C: The returned values are defined in <ieeefp.h> and are:
?C:
?C: FP_SNAN  signaling NaN
?C: FP_QNAN  quiet NaN
?C: FP_NINF  negative infinity
?C: FP_PINF  positive infinity
?C: FP_NDENORM negative denormalized non-zero
?C: FP_PDENORM positive denormalized non-zero
?C: FP_NZERO negative zero
?C: FP_PZERO positive zero
?C: FP_NNORM negative normalized
 non-zero
?C: FP_PNORM positive normalized non-zero
?C:.
?H:#$d_fpclass HAS_FPCLASS  /**/
?H:.
?LINT:set d_fpclass
: see if fpclass exists
set fpclass d_fpclass
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fpclass.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: lns.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  07:05:52  ram
?RCS: patch30: created by ADO
?RCS:
?MAKE:issymlink: lns test rm
```

```
?MAKE: -pick add $@ %<
?S:issymlink:
?S: This variable holds the test command to test for a symbolic link
?S: (if they are supported).  Typical values include 'test -h' and
?S: 'test -L'.
?S:.
?T:pth p
?LINT:change PATH test
?LINT:extern newsh
: determine whether symbolic links are supported
echo
 " "
case "$lns" in
*"ln"*" -s")
 echo "Checking how to test for symbolic links..." >&4
 $lns blurfl sym
 if $test "X$issymlink" = X; then
?X:
?X: In some AIX 4 versions the (ksh) builtin test (-h) is broken.
?X:
  case "$newsh" in
  ") sh     -c "PATH= test -h sym" >/dev/null 2>&1 ;;
  *)  $newsh -c "PATH= test -h sym" >/dev/null 2>&1 ;;
  esac
  if test $? = 0; then
   issymlink="test -h"
  else
   echo "Your builtin 'test -h' may be broken." >&4
   case "$test" in
   /*) ;;
   *) pth=`echo $PATH | sed -e "s/$p_/ /g"`
    for p in $pth
    do
     if test -f "$p/$test"; then
      test="$p/$test"
      break
     fi
    done
    ;;
   esac
   case "$test" in
   /*)
    echo "Trying external '$test -h'." >&4
    issymlink="$test -h"
    if $test ! -h sym >/dev/null 2>&1; then
     echo "External '$test -h' is broken, too." >&4
     issymlink="
    fi
```

```
    ;;
   *) issymlink=" ;;
   esac
  fi
 fi
 if $test "X$issymlink" = X; then
  if $test -L sym 2>/dev/null; then
   issymlink="$test
 -L"
   echo "The builtin '$test -L' worked." >&4
  fi
 fi
 if $test "X$issymlink" != X; then
  echo "You can test for symbolic links with '$issymlink'." >&4
 else
  echo "I do not know how you can test for symbolic links." >&4
 fi
 $rm -f blurfl sym
 ;;
*) echo "No symbolic links, so not testing for their testing..." >&4
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/issymlink.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isnan: Inlibc cat Compile rm_try Setvar
?MAKE: -pick add $@ %<
?S:d_isnan:
?S: This variable conditionally defines the HAS_ISNAN symbol, which
?S: indicates to the C program that the isnan() routine is available.
?S:.
?C:HAS_ISNAN:
?C: This symbol, if defined, indicates that the isnan routine is
?C: available to check whether a double is a NaN.
?C:.
?H:#$d_isnan HAS_ISNAN  /**/
?H:.
?LINT:set d_isnan
```

```
: check for isnan
echo "Checking to see if you have isnan..." >&4
$cat >try.c <<EOCP
#include <math.h>
int main() { return isnan(0.0); }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have isnan."
else
 val="$undef"
 echo "You do not have isnan."
fi
$rm_try
set d_isnan
eval $setvar
```

Found
 in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_isnan.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_tzname.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_tzname.U,v $
?RCS: Revision 3.0.1.2  1994/08/29  16:14:43  ram
?RCS: patch32: forgot to set proper value in the val variable
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:57:55  ram
?RCS: patch30: created
?RCS:
?MAKE:d_tzname: Csym Setvar
?MAKE: -pick add $@ %<
?S:d_tzname:
?S: This variable conditionally defines HAS_TZNAME if tzname[] is
?S: available to access timezone names.
?S:.
?C:HAS_TZNAME:
```

```
?C: This symbol, if defined, indicates that the tzname[]
 array is
?C: available to access timezone names.
?C:.
?H:#$d_tzname HAS_TZNAME  /**/
?H:.
?LINT:set d_tzname
: see if tzname[] exists
echo " "
if set tzname val -a d_tzname; eval $csym; $val; then
 val="$define"
 echo 'tzname[] found.' >&4
else
 val="$undef"
 echo 'tzname[] NOT found.' >&4
fi
set d_tzname
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_tzname.U
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```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_mmap.U,v $
?RCS: Revision 3.0.1.1  1993/12/15  08:19:12  ram
?RCS: patch15: created
?RCS:
?MAKE:d_mmap: Inlibc
?MAKE: -pick add $@ %<
?S:d_mmap:
?S: This variable conditionally defines HAS_MMAP if mmap() is
?S: available to map a file into memory.
?S:.
?C:HAS_MMAP:
?C: This symbol, if defined, indicates that the mmap system call is
?C: available to map a file into memory.
?C:.
```

```
?H:#$d_mmap HAS_MMAP  /**/
?H:.
?LINT:set d_mmap
: see if mmap exists
set mmap d_mmap
eval $inlibc
```

Found in path(s):
*
/opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_mmap.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_dlerror.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_dlerror.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  13:52:49  ram
?RCS: patch56: force compile-link test since symbol might lie in crt0.o (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:11:23  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_dlerror: Inlibc runnm
?MAKE: -pick add $@ %<
?S:d_dlerror:
?S: This variable conditionally defines the HAS_DLERROR symbol, which
?S: indicates
 to the C program that the dlerror() routine is available.
?S:.
?C:HAS_DLERROR :
?C: This symbol, if defined, indicates that the dlerror routine is
?C: available to return a string describing the last error that
?C: occurred from a call to dlopen(), dlclose() or dlsym().
?C:.
?H:#$d_dlerror HAS_DLERROR /**/
?H:.
?T: xxx_runnm
?LINT:set d_dlerror
```

```
?X: We don't permanently change runnm, but we do temporarily.
?LINT: change runnm
: see if dlerror exists
?X: On NetBSD and FreeBSD, dlerror might be available, but it is in
?X: /usr/lib/crt0.o, not in any of the libraries.  Therefore, do not
?X: use the nm extraction, but use a real compile and link test instead.
xxx_runnm="$runnm"
runnm=false
set dlerror d_dlerror
eval $inlibc
runnm="$xxx_runnm"
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_dlerror.U
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```
?RCS: $Id: warnflags.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Orginal Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: warnflags.U,v $
?RCS: Revision 3.0  1993/08/18  12:10:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:warnflags: cat cc contains Myread Guess Oldconfig Findhdr
?MAKE: -pick add $@ %<
?S:warnflags:
?S: This variable contains any additional C compiler flags to generate
?S: warnings from the compiler. It is up to the Makefile to use this.
?S:.
: offer additional
 warning flags for compilation
$cat <<EOH

You may wish to compile with extra compiler warnings enabled.
Note that doing so enhances your chance of receiving your free set of steak
knives, particularly if you find any bugs and report them.
If you don't want extra warnings, answer "none".
```

```
EOH
case "$warnflags" in
") case "$cc" in
 *gcc*)
  dflt="-Wall -Wno-comment"
  if $contains 'fprintf' `./findhdr stdio.h` >/dev/null 2>&1; then
   :
  else
   dflt="$dflt -Wno-implicit"
  fi
  ;;
 *) dflt="none";;
 esac
 ;;
' ') dflt="none";;
*) dflt="$warnflags";;
esac

rp="Any $cc flags to enable warnings?"
. ./myread
case "$ans" in
none) warnflags=' ';;
*) warnflags="$ans";;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/warnflags.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: pager.U,v $
?RCS: Revision 3.0.1.2  1995/01/30  14:41:26  ram
?RCS: patch49: ensure dflt gets initialized in case no pagers are found (WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:27:45  ram
?RCS: patch36: replaced Myread by Getfile in the dependency line
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:30  ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:pager: pg more less Getfile Oldconfig
?MAKE: -pick add $@ %<
?S:pager:
?S: This variable contains the name of the preferred pager
 on the system.
?S: Usual values are (the full pathnames of) more, less, pg, or cat.
?S:.
: locate the preferred pager for this system
fn=f/
case "$pager" in
")
 dflt="
 case "$pg" in
 /*) dflt=$pg;;
 [a-zA-Z]:/*) dflt=$pg;;
 esac
 case "$more" in
 /*) dflt=$more;;
 [a-zA-Z]:/*) dflt=$more;;
 esac
 case "$less" in
 /*) dflt=$less;;
 [a-zA-Z]:/*) dflt=$less;;
 esac
 case "$dflt" in
 ") dflt=/usr/ucb/more;;
 esac
 ;;
*) dflt="$pager"
 ;;
esac
?X: Instruct ./getfile to trust the default pager value,
?X: even if it does not begin with a slash.  For example, on os2,
?X: pager might be cmd /c more.  Also, it might include some options,
?X: such as '/usr/bin/less -R'.  ./getfile would report that
?X: "/usr/bin/less -R" doesn't exist.
?X: See comments in Getfile.U.
fn="f/($dflt)"
echo " "
rp='What pager is used on your system?'
. ./getfile
pager="$ans"
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/pager.U

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```
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_getspnam: Inlibc
?MAKE: -pick add $@ %<
?S:d_getspnam:
?S: This variable conditionally defines HAS_GETSPNAM if getspnam() is
?S: available to retrieve SysV shadow password entries by name.
?S:.
?C:HAS_GETSPNAM:
?C: This symbol, if defined, indicates that the getspnam system call is
?C: available to retrieve SysV shadow password entries by name.
?C:.
?H:#$d_getspnam HAS_GETSPNAM  /**/
?H:.
?LINT:set d_getspnam
: see if getspnam exists
set getspnam d_getspnam
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getspnam.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_mmap mmaptype: Inlibc i_sysmman cat cc ccflags
?MAKE: -pick add $@ %<
?S:d_mmap:
?S: This variable conditionally defines HAS_MMAP if mmap() is
```

```
?S: available to map a file into memory.
?S:.
?S:mmaptype:
?S: This symbol contains the type of pointer returned by mmap()
?S: (and simultaneously the type of the first argument).
?S: It can be 'void *' or 'caddr_t'.
?S:.
?C:HAS_MMAP:
?C: This symbol, if defined, indicates that the mmap system call is
?C: available to map a file into memory.
?C:.
?C:Mmap_t:
?C: This symbol
 holds the return type of the mmap() system call
?C: (and simultaneously the type of the first argument).
?C: Usually set to 'void *' or 'caddr_t'.
?C:.
?H:#$d_mmap HAS_MMAP  /**/
?H:#define Mmap_t $mmaptype /**/
?H:.
?LINT:set d_mmap
: see if mmap exists
set mmap d_mmap
eval $inlibc
: see what shmat returns
: default to something harmless
mmaptype='void *'
case "$i_sysmman$d_mmap" in
"$define$define")
 $cat >mmap.c <<'END'
#include <sys/mman.h>
void *mmap();
END
 if $cc $ccflags -c mmap.c >/dev/null 2>&1; then
  mmaptype='void *'
 else
  mmaptype='caddr_t'
 fi
 echo "and it returns ($mmaptype)." >&4
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_mmap.U
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?RCS: Copyright (c) 2006-2007, H.Merijn Brand

```
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_builtin_choose_expr d_builtin_expect : Compile Setvar cat run rm_try
?MAKE: -pick add $@ %<
?S:d_builtin_choose_expr:
?S: This conditionally defines HAS_BUILTIN_CHOOSE_EXPR, which
?S: indicates that the compiler supports __builtin_choose_expr(x,y,z).
?S: This built-in function is analogous to the "x?y:z" operator in C,
?S: except that the expression returned has its type unaltered by
?S: promotion rules. Also, the built-in function does not evaluate
?S: the expression that was not chosen.
?S:.
?S:d_builtin_expect:
?S: This conditionally
 defines HAS_BUILTIN_EXPECT, which indicates
?S: that the compiler supports __builtin_expect(exp,c).  You may use
?S: __builtin_expect to provide the compiler with branch prediction
?S: information.
?S:.
?C:HAS_BUILTIN_CHOOSE_EXPR:
?C: Can we handle GCC builtin for compile-time ternary-like expressions
?C:.
?C:HAS_BUILTIN_EXPECT:
?C: Can we handle GCC builtin for telling that certain values are more
?C: likely
?C:.
?H:#$d_builtin_expect HAS_BUILTIN_EXPECT /**/
?H:#$d_builtin_choose_expr HAS_BUILTIN_CHOOSE_EXPR /**/
?H:.
?F:!try
?LINT:set d_builtin_expect d_builtin_choose_expr
: Look for GCC-style __builtin_choose_expr
case "$d_builtin_choose_expr" in
")
   echo " "
   echo "Checking whether your compiler can handle __builtin_choose_expr ..." >&4
   $cat >try.c <<'EOCP'
#include <assert.h>
#include <stdlib.h>
#include <stdio.h>

#define SYRINX(x) __builtin_choose_expr( x, (1056*2), (103*50) )
```

```
int main(void) {
   assert( SYRINX(1) == 2112 );
   assert( SYRINX(1) != 5150 );
    assert( SYRINX(0) == 5150 );
   assert( SYRINX(0) != 2112 );
   puts( "All good!" );
   exit(0);
}

EOCP
   set try
   if eval $compile && $run ./try; then
 echo "Your C compiler supports __builtin_choose_expr."
 val="$define"
   else
 echo "Your C compiler doesn't seem to understand __builtin_choose_expr."
 val="$undef"
   fi
;;
*) val="$d_builtin_choose_expr" ;;
esac

set d_builtin_choose_expr
eval $setvar
$rm_try

: Look for GCC-style __builtin_expect
case "$d_builtin_expect" in
")
   echo " "
   echo "Checking whether your compiler can handle __builtin_expect ..." >&4
   $cat >try.c <<'EOCP'
int main(void) {
   int n = 50;
   if ( __builtin_expect(n, 0) ) n = 1;
   /* Remember shell exit code truth is 0, C truth is non-zero */
   return !(n == 1);
}
EOCP
   set try
   if eval $compile && $run ./try; then
 echo "Your C compiler supports __builtin_expect."
 val="$define"
   else
 echo "Your C compiler doesn't seem to understand __builtin_expect."
 val="$undef"
    fi
   ;;
```

```
*) val="$d_builtin_expect" ;;
esac

set d_builtin_expect
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_builtin.U
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```
?RCS: $Id: d_setrgid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setrgid.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setrgid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setrgid:
?S: This variable conditionally defines the HAS_SETRGID symbol, which
?S: indicates to the C program that the setrgid() routine is available
?S: to change the real gid of the current program.
?S:.
?C:HAS_SETRGID (SETRGID):
?C: This symbol, if defined, indicates that the setrgid
 routine is available
?C: to change the real gid of the current program.
?C:.
?H:#$d_setrgid HAS_SETRGID  /**/
?H:.
?LINT:set d_setrgid
: see if setrgid exists
set setrgid d_setrgid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setrgid.U

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```
?RCS: $Id: i_sysndir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysndir.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:33  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_sysndir: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysndir:
?S: This variable conditionally defines the I_SYS_NDIR symbol, and indicates
?S: whether a C program should include <sys/ndir.h>.
?S:.
?C:I_SYS_NDIR (I_SYSNDIR):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/ndir.h>.
?C:.
?H:#$i_sysndir
 I_SYS_NDIR /**/
?H:.
?LINT:set i_sysndir
: see if this is an sysndir system
set sys/ndir.h i_sysndir
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sysndir.U
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```
?RCS: $Id: fpu.U,v 3.0 1993/08/18 12:08:10 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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```

```
?RCS:
?RCS: $Log: fpu.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:10  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?LINT: empty
?X:?MAKE:fpu: test cat cc Myread
?X:?MAKE: -pick add $@ %<
?X:?S:fpu (fpunit):
?X:?S: Set to be the compile flag for the local floating point unit.
?X:?S:.
?X:?C:FPU (FPUNIT):
?X:?C: String containing the flags for the local floating point unit.
?X:?C:.
?X:?H:#define FPU "$fpu" /**/
?X:?H:.
?X:: see what floating point compile flags should be used.
?X:fpu="
?X:if
 $test -r /dev/fpa; then
?X: $cat>fpa.c << GOOP
?X: main(){return(1);}
?X:GOOP
?X: $cc -ffpa -o fpa fpa.c
?X: fpa > fpa.out 2>&1
?X: if $test ! -s fpa.out; then
?X:  dflt='y'
?X:  $cat <<'EOM'
?X:
?X:You seem to have a sun fpa...  I can compile the code to use the fpa but it will
?X:mean that the code can ONLY run on a machine with a fpa...
?X:
?X:EOM
?X:  rp="Should I compile for fpa?"
?X:  . ./myread
?X:  if $test $ans = "n"; then
?X:   fpu="
?X:  else
?X:   fpu='-ffpa'
?X:  fi
?X: else
?X:  $cat <<'EOM'
?X:
?X:You have the fpa device but I can't seem to use it.  Maybe you should talk to
?X:your sysadmin about this.  For now, I am not going to compile it in.
?X:
?X:EOM
?X: fi
```

```
?X:fi
?X:if $test "$fpu" = ''; then
?X: if $test -r /usr/etc/mc68881version; then
?X:  dflt='y'
?X:  $cat <<'EOM'
?X:
?X:There also seems to be the pieces for a 68881.  If I compile this in, it will
?X:work on almost all Sun 3's except for a few Sun-3/50s without a 68881...
?X:
?X:EOM
?X:  rp="Should
 I compile for a 68881?"
?X:  . ./myread
?X:  if $test $ans = "y"; then
?X:   fpu='-f68881'
?X:  fi
?X: fi
?X:fi
?X:
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/nullified/fpu.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Cppsym.U,v 3.0.1.5 1995/05/12 11:59:11 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Cppsym.U,v $
?RCS: Revision 3.0.1.5  1995/05/12  11:59:11  ram
?RCS: patch54: split awk command onto two lines for older awk's (ADO)
?RCS:
?RCS: Revision 3.0.1.4  1995/01/11  14:55:57  ram
?RCS: patch45: new cc vs. cpp symbol checking suggested by JHI
?RCS: patch45: added more cpp symbols (JHI)
?RCS:
?RCS: Revision 3.0.1.3  1994/10/29  15:51:32  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: new symbols ardent and titan (ADO)
?RCS:
?RCS:
```

```
 Revision 3.0.1.2  1994/06/20  06:53:32  ram
?RCS: patch30: extended cpp symbol lookup list (JHI)
?RCS: patch30: renamed attrlist symbol into al for brevity
?RCS:
?RCS: Revision 3.0.1.1  1993/12/15  08:14:14  ram
?RCS: patch15: added new cpp symbols __bsdi__ and BSD_NET2
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X: This unit produces a shell script called Cppsym, which can be used to
?X: determine whether any in a list of symbols is defined by the C compilation
?X: chain (C preprocessor symbols plus C compiler native ones).
?X: It can determine the status of any symbol, though the symbols in $al
?X: are more easily determined.  If you want to add to $al you can do
?X: it in Myinit.U.
?MAKE:Cppsym ccsymbols cppsymbols cppccsymbols: run \
 eunicefix Guess awk cat tr sed sort rm rm_try startsh osname \
 +cc +gccversion test comm uniq echo Options trnl \
 optimize ccflags ldflags libs cpp_stuff cpp
?MAKE: -pick add $@ %<
?T:also
 symbols i postprocess_cc_v tHdrH
?X:
?X: The symbol list is in alpha order for ease of maintenance...
?X:
?X: Lots of new symbols (mostly rummaged from gcc), courtesy of
?X: Jarkko Hietaniemi <jhi@snakemail.hut.fi> -- RAM, 06/06/94
?X:
?S:ccsymbols:
?S: The variable contains the symbols defined by the C compiler alone.
?S: The symbols defined by cpp or by cc when it calls cpp are not in
?S: this list, see cppsymbols and cppccsymbols.
?S: The list is a space-separated list of symbol=value tokens.
?S:.
?S:cppsymbols:
?S: The variable contains the symbols defined by the C preprocessor
?S: alone.  The symbols defined by cc or by cc when it calls cpp are
?S: not in this list, see ccsymbols and cppccsymbols.
?S: The list is a space-separated list of symbol=value tokens.
?S:.
?S:cppccsymbols:
?S: The variable contains the symbols defined by the C compiler
?S: when it calls cpp.  The symbols defined by the cc alone or cpp
?S: alone are not in this list, see ccsymbols and cppsymbols.
?S: The
 list is a space-separated list of symbol=value tokens.
?S:.
```

```
?F:./Cppsym
?F:./Cppsym.know
?F:!Cppsym.true
?F:!ccsym.com
?F:!ccsym.cpp
?F:!ccsym.own
?X: fake LINT hints
?LINT:change ccflags
?LINT:extern s
?LINT:extern s__
: Preprocessor symbols
echo " "
$echo "Guessing which symbols your C compiler and preprocessor define..." >&4
?X: If your symbol is mixed case, just add it as-is.
?X: All symbols will be transformed to both all-lower and all-upper.
?X: Also drop any leading/trailing underscores, the scan will try all those.
$cat <<'EOSH' > Cppsym.know
a29k aarch64 ABI64 aegis AES_SOURCE AIX AIX32 AIX370 AIX41 AIX42
AIX43 aixpc AIX_SOURCE alliant ALL_SOURCE alpha AM29000 am29000
AMD64 amd64 amiga AMIGAOS AMIX ansi ANSI_C_SOURCE apollo arch_ppc
arch_pwr ardent ARM ARM32 atarist att386 att3b
BeOS BIG_ENDIAN BIT_MSF BSD bsd bsd43 bsd4_2 BSD4_3 bsd4_3 bsd4_4
BSDCOMPAT bsdi BSD_4_3 BSD_4_4 BSD_NET2 BSD_TIME BSD_TYPES bull
byteorder byte_order
c cadmus clang clipper CMU COFF COMPILER_VERSION
 concurrent
convex cpu CRAY cray CRAYMPP ctix CX_UX CYGWIN
DECC DGUX DGUX_SOURCE DJGPP dmert DOLPHIN DPX2 DSO Dynix DynixPTX
ELF encore EPI EXTENSIONS
FAVOR_BSD FILE_OFFSET_BITS FORTIFY_SOURCE FreeBSD
GCC_NEW_VARARGS gcos gcx gimpel GLIBC GLIBC_MINOR GNUC GNUC_MINOR
GNU_LIBRARY GNU_SOURCE GO32 gould GOULD_PN
H3050R H3050RX hbullx20 hcx host_mips hp200 hp300 HP700 hp700
hp800 hp9000 hp9000s200 hp9000s300 hp9000s400
hp9000s700 hp9000s800 hp9k8 hppa hpux HPUX_SOURCE hp_osf
i186 i286 i386 i486 i586 i686 i8086 i80960 i860 I960 IA32 IA64
iAPX286 ibm ibm032 ibmesa IBMR2 ibmrt ILP32 ILP64
INLINE_INTRINSICS INT64 INTEL interdata INTRINSICS is68k itanium
ksr1
LANGUAGE_C LARGEFILE64_SOURCE LARGEFILE_SOURCE LARGE_FILE_API
LFS64_LARGEFILE LFS_LARGEFILE LIBCATAMOUNT Linux LITTLE_ENDIAN
LONG64 LONGDOUBLE LONGLONG LONG_DOUBLE LONG_LONG LP64 luna
luna88k Lynx
M68000 m68k m88100 m88k M88KBCS_TARGET MACH machine MachTen
MATH_HAS_NO_SIDE_EFFECTS mc300 mc500 mc68000 mc68010 mc68020
mc68030 mc68040 mc68060
 mc68k mc68k32 mc700 mc88000 mc88100
merlin mert MiNT mips MIPSEB MIPSEL MIPS_FPSET MIPS_ISA MIPS_SIM
```

```
MIPS_SZINT MIPS_SZLONG MIPS_SZPTR MODERN_C motorola MSDOS
MTXINU MULTIMAX MVS mvs M_AMD64 M_ARM M_ARMT M_COFF M_I186 M_I286
M_I386 M_I8086 M_I86 M_I86SM M_IA64 M_IX86 M_PPC M_SYS3 M_SYS5
M_SYSIII M_SYSV M_UNIX M_X86 M_XENIX
n16 ncl_el ncl_mr NetBSD news1500 news1700 news1800 news1900
news3700 news700 news800 news900 NeXT NLS nonstopux ns16000
ns32000 ns32016 ns32332 ns32k nsc32000
OCS88 OEMVS OpenBSD os OS2 OS390 osf OSF1 OSF_SOURCE
PARAGON parisc pa_risc PA_RISC1_1 PA_RISC2_0 pc532 pdp11 PGC PIC
plexus PORTAR posix POSIX1B_SOURCE POSIX2_SOURCE POSIX4_SOURCE
POSIX_C_SOURCE POSIX_SOURCE POWER powerpc ppc PROTOTYPES PWB pyr
QK_USER QNX
R3000 REENTRANT RES Rhapsody RISC6000 riscix riscos RT
S390 S390x SA110 SCO scs sequent sgi SGI_SOURCE SH SH3 sinix
SIZE_INT SIZE_LONG SIZE_PTR SOCKETS_SOURCE SOCKET_SOURCE sony
sonyrisc sony_news sparc sparclite sparcv8 sparcv9 spectrum
stardent stdc
 STDC_EXT stratos sun sun3 sun386 Sun386i svr3 svr4
SVR4_2 SVR4_SOURCE svr5 SX system SYSTYPE_BSD SYSTYPE_BSD43
SYSTYPE_BSD44 SYSTYPE_SVR4 SYSTYPE_SVR5 SYSTYPE_SYSV SYSV SYSV3
SYSV4 SYSV5 sysV68 sysV88
Tek4132 Tek4300 thumb thw_370 thw_intel thw_rs6000 titan TM3200
TM5400 TM5600 tower tower32 tower32_200 tower32_600 tower32_700
tower32_800 tower32_850 tss
u370 u3b u3b2 u3b20 u3b200 u3b20d u3b5 ultrix UMAXV UnicomPBB
UnicomPBD UNICOS UNICOSMK unix UNIX95 UNIX99 unixpc unos USE_BSD
USE_FILE_OFFSET64 USE_GNU USE_ISOC9X USE_LARGEFILE
USE_LARGEFILE64 USE_MISC USE_POSIX USE_POSIX199309
USE_POSIX199506 USE_POSIX2 USE_REENTRANT USE_SVID USE_UNIX98
USE_XOPEN USE_XOPEN_EXTENDED USGr4 USGr4_2 UTek Utek UTS UWIN
uxpm uxps
vax venix VMESA vms
x86_64 xenix Xenix286 XOPEN_SOURCE XOPEN_SOURCE_EXTENDED XPG2
XPG2_EXTENDED XPG3 XPG3_EXTENDED XPG4 XPG4_EXTENDED
z8000 zarch
EOSH
# Maybe put other stuff here too.
?X:Some OS's will have a dash in their $osname
?X:e.g. Android is known as linux-android
?X:The
 preprocessor will interpret the dash as a minus
./tr '-' '_' <<EOSH >>Cppsym.know
$osname
EOSH
./tr '[a-z]' '[A-Z]' < Cppsym.know > Cppsym.a
./tr '[A-Z]' '[a-z]' < Cppsym.know > Cppsym.b
$cat Cppsym.know > Cppsym.c
$cat Cppsym.a Cppsym.b Cppsym.c | $tr ' ' $trnl | $sort | $uniq > Cppsym.know
```

```
$rm -f Cppsym.a Cppsym.b Cppsym.c
cat <<EOSH > Cppsym
$startsh
if $test \$# -gt 0; then
   echo \$* | $tr " " "$trnl" | ./Cppsym.try > Cppsym.got
   if $test -s Cppsym.got; then
 $rm -f Cppsym.got
 exit 0
   fi
   $rm -f Cppsym.got
   exit 1
else
   $tr " " "$trnl" | ./Cppsym.try
   exit 0
fi
EOSH
chmod +x Cppsym
$eunicefix Cppsym
?X: The below awk script will die a horrible death if
?X: some of the tested symbols are not long ints.
?X: Also, we do not make difference between just defined and defined zero.
cat <<EOSH > Cppsym.try
$startsh
cat <<'EOCP' > try.c
#include <stdio.h>
#if cpp_stuff == 1
#define STRINGIFY(a)    "a"
#endif
#if cpp_stuff == 42
#define StGiFy(a)  #a
#define STRINGIFY(a)
    StGiFy(a)
#endif
#if $cpp_stuff != 1 && $cpp_stuff != 42
#   include "Bletch: How does this C preprocessor stringify macros?"
#endif
int main() {
EOCP
?X: The length($1) command guards against possible empty entries.
?X: The awk snippet is know to give heartburn to UNICOS/mk awk.
$awk \\
EOSH
cat <<'EOSH' >> Cppsym.try
'length($1) > 0 {
   printf "#ifdef %s\nprintf(\"%s=%%s\\n\", STRINGIFY(%s));\n#endif\n", $1, $1, $1
   printf "#ifdef _%s\nprintf(\"_%s=%%s\\n\", STRINGIFY(_%s));\n#endif\n", $1, $1, $1
   printf "#ifdef __%s\nprintf(\"__%s=%%s\\n\", STRINGIFY(__%s));\n#endif\n", $1, $1, $1
   printf "#ifdef __%s__\nprintf(\"__%s__=%%s\\n\", STRINGIFY(__%s__));\n#endif\n", $1, $1, $1
```

```
}' >> try.c
echo 'return 0;}' >> try.c
EOSH
cat <<EOSH >> Cppsym.try
ccflags="$ccflags"
case "$osname-$gccversion" in
irix-) ccflags="\$ccflags -woff 1178" ;;
os2-*) ccflags="\$ccflags -Zlinker /PM:VIO" ;;
esac
$cc -o try -Dcpp_stuff=$cpp_stuff $optimize \$ccflags $ldflags try.c $libs 2>/dev/null
 && $run ./try | $sed 's/ /\\\\ /g'
EOSH
chmod +x Cppsym.try
$eunicefix Cppsym.try
./Cppsym < Cppsym.know | $sort | $uniq > Cppsym.true
: Add in any Linux cpp "predefined macros":
case "$osname::$gccversion" in
 *linux*::*.*|*gnukfreebsd*::*.*|gnu::*.*)
   tHdrH=_tmpHdr
   rm -f $tHdrH'.h' $tHdrH
   touch $tHdrH'.h'
   # Filter out macro arguments, such as Linux's __INT8_C(c)
   if $cpp -dM $tHdrH'.h' > $tHdrH'_cppsym.h' && [ -s $tHdrH'_cppsym.h' ]; then
      sed -e 's/#define[\ \  ]*//;s/[\ \     ].*$//' -e 's/(.*//' <$tHdrH'_cppsym.h' >$tHdrH'_cppsym.real'
      if [ -s $tHdrH'_cppsym.real' ]; then
   cat $tHdrH'_cppsym.real' Cppsym.know | sort | uniq | ./Cppsym | sort | uniq > Cppsym.true
      fi
   fi
   rm -f $tHdrH'.h' $tHdrH'_cppsym.h' $tHdrH'_cppsym.real'
 ;;
esac
: now check the C compiler for additional symbols
?X: suggested by Jarkko Hietaniemi <jhi@snakemail.hut.fi>, thanks!
postprocess_cc_v="
case "$osname" in
aix) postprocess_cc_v="|$tr , ' '" ;;
esac
$cat >ccsym
 <<EOS
$startsh
$cat >tmp.c <<EOF
extern int foo;
EOF
for i in \`$cc -v -c tmp.c 2>&1 $postprocess_cc_v\`
do
 case "\$i" in
 -D*) echo "\$i" | $sed 's/^-D//';;
 -A*) $test "$gccversion" && echo "\$i" | $sed 's/^-A//' | $sed 's/\(.*\)(\(.*\))/\1=\2/';;
```

```
 esac
done
$rm_try
EOS
postprocess_cc_v="
chmod +x ccsym
$eunicefix ccsym
./ccsym > ccsym1.raw
?X: AIX complains if $uniq is passed an empty file.  ($sort apparently
?X: doesn't care.)  --AD  14 July 1998
if $test -s ccsym1.raw; then
   $sort ccsym1.raw | $uniq >ccsym.raw
else
   mv ccsym1.raw ccsym.raw
fi

?X: canonicalize symbols for easier sort/uniq/comm usage: append =1 if no = sign
?X: the awk script must be on two lines for older awk programs, sigh! -- ADO
$awk '/\=/ { print $0; next }
 { print $0"=1" }' ccsym.raw >ccsym.list
$comm -13 Cppsym.true ccsym.list >ccsym.own
$comm -12 Cppsym.true ccsym.list >ccsym.com
$comm -23 Cppsym.true ccsym.list >ccsym.cpp
also="
if $test -z ccsym.raw; then
 echo "Your C compiler doesn't seem
 to define any symbols!" >&4
 echo " "
 echo "However, your C preprocessor defines the following symbols:"
 $cat Cppsym.true
 ccsymbols="
 cppsymbols=`$cat Cppsym.true`
 cppsymbols=`echo $cppsymbols`
 cppccsymbols="$cppsymbols"
else
 if $test -s ccsym.com; then
  echo "Your C compiler and pre-processor define these symbols:"
  $sed -e 's/\(..*\)=.*/\1/' ccsym.com
  also='also '
  symbols='ones'
  cppccsymbols=`$cat ccsym.com`
  cppccsymbols=`echo $cppccsymbols`
  $test "$silent" || sleep 1
 fi
 if $test -s ccsym.cpp; then
  $test "$also" && echo " "
  echo "Your C pre-processor ${also}defines the following symbols:"
  $sed -e 's/\(..*\)=.*/\1/' ccsym.cpp
```

```
  also='further '
  cppsymbols=`$cat ccsym.cpp`
  cppsymbols=`echo $cppsymbols`
  $test "$silent" || sleep 1
 fi
 if $test -s ccsym.own; then
  $test "$also" && echo " "
  echo "Your C compiler ${also}defines the following cpp symbols:"
  $sed -e 's/\(..*\)=1/\1/' ccsym.own
  $sed -e 's/\(..*\)=.*/\1/' ccsym.own | $uniq >>Cppsym.true
  ccsymbols=`$cat
 ccsym.own`
  ccsymbols=`echo $ccsymbols`
  $test "$silent" || sleep 1
 fi
fi

: add -D_FORTIFY_SOURCE if feasible and not already there
case "$gccversion" in
[456789].*|[1-9][0-9]*) case "$optimize$ccflags" in
 *-O*) case "$ccflags$cppsymbols" in
  *_FORTIFY_SOURCE=*) # Don't add it again.
   echo "You seem to have -D_FORTIFY_SOURCE already, not adding it." >&4
   ;;
  *) echo "Adding -D_FORTIFY_SOURCE=2 to ccflags..." >&4
   ccflags="$ccflags -D_FORTIFY_SOURCE=2"
   ;;
  esac
  ;;
 *) echo "You have gcc 4.* or later but not optimizing, not adding -D_FORTIFY_SOURCE." >&4
  ;;
 esac
 ;;
*) echo "You seem not to have gcc 4.* or later, not adding -D_FORTIFY_SOURCE." >&4
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Cppsym.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_lrint: Inlibc
?MAKE: -pick add $@ %<
?S:d_lrint:
```

```
?S: This variable conditionally defines the HAS_LRINT symbol, which
?S: indicates to the C program that the lrint() routine is available
?S: to return the integral value closest to a double (according
?S: to the current rounding mode).
?S:.
?C:HAS_LRINT:
?C: This symbol, if defined, indicates that the lrint routine is
?C: available to return the integral value closest to a double
?C: (according to the current rounding mode).
?C:.
?H:#$d_lrint HAS_LRINT  /**/
?H:.
?LINT:set d_lrint
: see if lrint exists
set lrint d_lrint
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lrint.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: voidflags.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:27:58  ram
?RCS: patch61: don't prompt them if the void support is high enough for us
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:37:44  ram
?RCS: patch45: cosmetic change to avoid spurious blank lines when using -s
?RCS:
?RCS: Revision 3.0  1993/08/18  12:10:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:voidflags defvoidused: cat sed rm rm_try contains +cc +ccflags package \
 Oldconfig Myread
?MAKE: -pick add $@ %<
?S:voidflags:
?S: This
```

```
 variable contains the eventual value of the VOIDFLAGS symbol,
?S: which indicates how much support of the void type is given by this
?S: compiler.  See VOIDFLAGS for more info.
?S:.
?S:defvoidused:
?S: This variable contains the default value of the VOIDUSED symbol (15).
?S:.
?X: Exceptionally, we have to explicitly alias the symbol name for
?X: config_h.SH, otherwise the comment would not appear.
?C:VOIDFLAGS ~ %<:
?C: This symbol indicates how much support of the void type is given by this
?C: compiler.  What various bits mean:
?C:
?C:     1 = supports declaration of void
?C:     2 = supports arrays of pointers to functions returning void
?C:     4 = supports comparisons between pointers to void functions and
?C:      addresses of void functions
?C:     8 = suports declaration of generic void pointers
?C:
?C: The package designer should define VOIDUSED to indicate the requirements
?C: of the package.  This can be done either by #defining VOIDUSED before
?C: including
 config.h, or by defining defvoidused in Myinit.U.  If the
?C: latter approach is taken, only those flags will be tested.  If the
?C: level of void support necessary is not present, defines void to int.
?C:.
?H:?%<:#ifndef VOIDUSED
?H:?%<:#define VOIDUSED $defvoidused
?H:?%<:#endif
?H:?%<:#define VOIDFLAGS $voidflags
?H:?%<:#if (VOIDFLAGS & VOIDUSED) != VOIDUSED
?H:?%<:#define void int  /* is void to be avoided? */
?H:?%<:#define M_VOID   /* Xenix strikes again */
?H:?%<:#endif
?H:.
?W:%<:void
?F:!.out !try.c !flags
?LINT:usefile .out flags try.c
?INIT:: full support for void wanted by default
?INIT:defvoidused=15
?INIT:
?LINT:known void M_VOID VOIDUSED
: check for void type
echo " "
echo "Checking to see how well your C compiler groks the void type..." >&4
$cat >flags <<EOM

 Support flag bits are:
```

```
   1: basic void declarations.
   2: arrays of pointers to functions returning void.
   4: operations between pointers to and addresses of void functions.
   8: generic void pointers.

EOM
case
 "$voidflags" in
")
 $cat >try.c <<'EOCP'
#if TRY & 1
void sub() {
#else
sub() {
#endif
 extern void moo(); /* function returning void */
 void (*goo)();  /* ptr to func returning void */
#if TRY & 8
 void *hue;  /* generic ptr */
#endif
#if TRY & 2
 void (*foo[10])();
#endif

#if TRY & 4
 if(goo == moo) {
  exit(0);
 }
#endif
 exit(0);
}
int main() { sub(); }
EOCP
?X: This unit used to use cc -S in those tests to try to speed up things, but
?X: unfortunately, AIX 3.2 does not support this option.
 if $cc $ccflags -c -DTRY=$defvoidused try.c >.out 2>&1 ; then
  voidflags=$defvoidused
  echo "Good.  It appears to support void to the level $package wants."
  if $contains warning .out >/dev/null 2>&1; then
   echo "However, you might get some warnings that look like this:"
   $sed -e 's/^/ /' .out
  fi
 else
echo "Hmm, your compiler has some difficulty with void. Checking further..." >&4
  $cat >&4 flags
  $rm -f flags
  if $cc $ccflags -c -DTRY=1 try.c >/dev/null 2>&1; then
   echo
```

```
 "It supports 1..."
  if $cc $ccflags -c -DTRY=3 try.c >/dev/null 2>&1; then
   echo "It also supports 2..."
   if $cc $ccflags -c -DTRY=7 try.c >/dev/null 2>&1; then
    voidflags=7
    echo "And it supports 4 but not 8 definitely."
   else
    echo "It doesn't support 4..."
    if $cc $ccflags -c -DTRY=11 try.c >/dev/null 2>&1; then
     voidflags=11
     echo "But it supports 8."
    else
     voidflags=3
     echo "Neither does it support 8."
    fi
   fi
  else
   echo "It does not support 2..."
   if $cc $ccflags -c -DTRY=13 try.c >/dev/null 2>&1; then
    voidflags=13
    echo "But it supports 4 and 8."
   else
    if $cc $ccflags -c -DTRY=5 try.c >/dev/null 2>&1; then
     voidflags=5
     echo "And it supports 4 but has not heard about 8."
    else
     echo "However it supports 8 but not 4."
    fi
   fi
  fi
 else
  echo "There is no support at all for void."
  voidflags=0
 fi
fi
esac
?X: Only prompt user if support does not match the
 level we want
case "$voidflags" in
"$defvoidused")
 echo "Good.  I already know it supports void to the level $package wants."
 ;;
*)
 dflt="$voidflags";
 test -f flags && $cat flags
 rp="Your void support flags add up to what?"
 . ./myread
 voidflags="$ans"
```

```
 ;;
esac
$rm_try flags
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/voidflags.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setreuid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setreuid.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setreuid d_setresuid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setreuid:
?S: This variable conditionally defines HAS_SETREUID if setreuid() is
?S: available to change the real and effective uid of the current
?S: process.
?S:.
?S:d_setresuid:
?S: This variable conditionally defines HAS_SETREUID if setresuid() is
?S: available to change
 the real, effective and saved uid of the current
?S: process.
?S:.
?C:HAS_SETREUID (SETREUID):
?C: This symbol, if defined, indicates that the setreuid routine is
?C: available to change the real and effective uid of the current
?C: process.
?C:.
?C:HAS_SETRESUID (SETRESUID):
?C: This symbol, if defined, indicates that the setresuid routine is
?C: available to change the real, effective and saved uid of the current
?C: process.
?C:.
?H:#$d_setreuid HAS_SETREUID  /**/
?H:#$d_setresuid HAS_SETRESUID  /**/
```

```
?H:.
?LINT:set d_setreuid d_setresuid
: see if setreuid exists
set setreuid d_setreuid
eval $inlibc
set setresuid d_setresuid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setreuid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: spitshell.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: spitshell.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  16:22:12  ram
?RCS: patch61: removed useless chatter as this is now done very early
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:37:01  ram
?RCS: patch45: use 'test -f' instead of 'test -r' for exec-only cat progs (WED)
?RCS: patch45: protected "sh -c" within backquotes for Linux and SGI
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:33:00  ram
?RCS: patch32: don't create spitshell under the UU directory
?RCS:
 patch32: allow for cat in /bin or /usr/bin
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:12:58  ram
?RCS: patch10: made #!-failure message more friendly (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:49  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:spitshell shsharp sharpbang: eunicefix sh Head
?MAKE: -pick add $@ %<
?S:spitshell:
?S: This variable contains the command necessary to spit out a runnable
?S: shell on this system.  It is either cat or a grep -v for # comments.
?S:.
```

```
?S:shsharp:
?S: This variable tells further Configure units whether your sh can
?S: handle # comments.
?S:.
?S:sharpbang:
?S: This variable contains the string #! if this system supports that
?S: construct.
?S:.
?F:!sharp
?T:xcat p
?X: "paths" comes from Head
?LINT:extern paths _exe
: see if sh knows # comments
?X: This is loaded up early, so avoid being chatty.
?X: echo " "
?X: echo "Checking your $sh to see if it knows about # comments..." >&2
if `$sh -c '#' >/dev/null 2>&1`; then
?X: echo
 "Your $sh handles # comments correctly."
 shsharp=true
 spitshell=cat
?X: echo " "
?X: echo "Okay, let's see if #! works on this system..."
 xcat=/bin/cat
 test -f $xcat$_exe || xcat=/usr/bin/cat
 if test ! -f $xcat$_exe; then
  for p in `echo $PATH | sed -e "s/$p_/ /g"` $paths; do
   if test -f $p/cat$_exe; then
    xcat=$p/cat
    break
   fi
  done
  if test ! -f $xcat$_exe; then
   echo "Can't find cat anywhere!"
   exit 1
  fi
 fi
 echo "#!$xcat" >sharp
 $eunicefix sharp
 chmod +x sharp
 ./sharp > today 2>/dev/null
 if test -s today; then
?X:  echo "It does."
  sharpbang='#!'
 else
  echo "#! $xcat" > sharp
  $eunicefix sharp
  chmod +x sharp
```

```
  ./sharp > today 2>/dev/null
  if test -s today; then
?X:   echo "It does."
   sharpbang='#! '
  else
?X:   echo "Okay, let's see if #! works on this system..."
?X:   echo "It's just a comment."
   sharpbang=': use '
  fi
 fi
else
 echo " "
 echo "Your $sh doesn't grok # comments--I will strip them later on."
 shsharp=false
?X: The
 spitshell script will be perused, so leave it out the UU directory
 cd ..
 echo "exec grep -v '^[  ]*#'" >spitshell
 chmod +x spitshell
 $eunicefix spitshell
 spitshell=`pwd`/spitshell
 cd UU
 echo "I presume that if # doesn't work, #! won't work either!"
 sharpbang=': use '
fi
rm -f sharp today
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/spitshell.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: locdist.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: locdist.U,v $
?RCS: Revision 3.0.1.1  1994/05/06  15:09:20  ram
?RCS: patch23: added support for multi-state regions (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:06  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?MAKE:locdist orgdist citydist statedist multistatedist cntrydist contdist: \
 test newslibexp cat Myread Oldconfig
?MAKE: -pick add $@ %<
?S:locdist:
?S: This variable contains the eventual value of the LOCDIST symbol,
?S: which
 is the local organization's distribution name for news.
?S:.
?S:orgdist:
?S: This variable contains the eventual value of the ORGDIST symbol,
?S: which is the organization's distribution name for news.
?S:.
?S:citydist:
?S: This variable contains the eventual value of the CITYDIST symbol,
?S: which is the city's distribution name for news.
?S:.
?S:statedist:
?S: This variable contains the eventual value of the STATEDIST symbol,
?S: which is the state's or province's distribution name for news.
?S:.
?S:multistatedist:
?S: This variable contains the eventual value of the MULTISTATEDIST symbol,
?S: which is the news distribution code for multi-state region.
?S:.
?S:cntrydist:
?S: This variable contains the eventual value of the CNTRYDIST symbol,
?S: which is the country's distribution name for news.
?S:.
?S:contdist:
?S: This variable contains the eventual value of the CONTDIST symbol,
?S: which is the continent's distribution name for news.
?S:.
?C:LOCDIST:
?C: This symbol contains the
 distribution name for the news system that
?C: restricts article distribution to the local organization.
?C:.
?C:ORGDIST:
?C: This symbol contains the distribution name for the news system that
?C: restricts article distribution to the organization.
?C:.
?C:CITYDIST:
?C: This symbol contains the distribution name for the news system that
?C: restricts article distribution to the city.
?C:.
?C:STATEDIST:
?C: This symbol contains the distribution name for the news system that
```

```
?C: restricts article distribution to the state or province.
?C:.
?C:MULTISTATEDIST:
?C: This symbol contains the distribution name for the news system that
?C: restricts article distribution to a multi-state region.
?C:.
?C:CNTRYDIST:
?C: This symbol contains the distribution name for the news system that
?C: restricts article distribution to the country.
?C:.
?C:CONTDIST:
?C: This symbol contains the distribution name for the news system that
?C: restricts article distribution to the continent.
?C:.
?H:#define LOCDIST
 "$locdist"  /**/
?H:#define ORGDIST "$orgdist"  /**/
?H:#define CITYDIST "$citydist"  /**/
?H:#define MULTISTATEDIST "$multistatedist" /**/
?H:#define STATEDIST "$statedist"  /**/
?H:#define CNTRYDIST "$cntrydist"  /**/
?H:#define CONTDIST "$contdist"  /**/
?H:.
: get the local distributions
$cat <<'EOH'

Distribution groups are the things you use on the Distribution line to limit
where an article will go to.  You are likely to be a member of several
distribution groups, such as organization, city, state, province, country,
continent, etc.  For example, Los Angeles has the distribution code "la",
New Jersey has the code "nj", and Europe has the code "eunet".

The categories you will be asked are:

local organization (Could be just one machine or a cluster or an office)
organization  att, dec, kgb, ...
city   la, ny, mosc, ...
state/province  ca, nj, bc, ...
multi-state region pnw, ne, ...
country   usa, can, rok, whatever
continent  na (North America), asia, etc.

EOH
if $test
 -f $newslibexp/distributions; then
 case "$silent" in
 true) ;;
 *) dflt='Hit return to continue'
```

```
  rp="
  . ./myread
  ;;
 esac
 echo "Here is your distributions file:" >&4
 echo " " >&4
 $cat >&4 $newslibexp/distributions
 echo " " >&4
fi
echo "Use 'none' for any distributions you don't have."
echo " "
case "$locdist" in
") dflt="none";;
*)  dflt="$locdist";;
esac
rp="What is the distribution code for your local organization?"
. ./myread
locdist="$ans"
case "$orgdist" in
") dflt="none";;
*)  dflt="$orgdist";;
esac
rp="What is the distribution code for your organization?"
. ./myread
orgdist="$ans"
case "$citydist" in
") dflt="none";;
*)  dflt="$citydist";;
esac
rp="What is the distribution code for your city?"
. ./myread
citydist="$ans"
case "$statedist" in
") dflt="none";;
*)  dflt="$statedist";;
esac
rp="What is the distribution code for your state/province?"
. ./myread
statedist="$ans"
case "$multistatedist" in
") dflt="none";;
*) dflt="$multistatedist";;
esac
rp="What is the
 distribution code for your multi-state region?"
. ./myread
multistatedist="$ans"
case "$cntrydist" in
```

```
") dflt="none";;
*)  dflt="$cntrydist";;
esac
rp="What is the distribution code for your country?"
. ./myread
cntrydist="$ans"
case "$contdist" in
") dflt="none";;
*)  dflt="$contdist";;
esac
rp="What is the distribution code for your continent?"
. ./myread
contdist="$ans"
$cat <<'EOM'

If you have any other distribution groups you will need to edit Pnews
and newsetup to add them.
EOM
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/locdist.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_memmem: Hasproto Inlibc Setvar d_gnulibc
?MAKE: -pick add $@ %<
?S:d_memmem:
?S: This variable conditionally defines the HAS_MEMMEM symbol, which
?S: indicates to the C program that the memmem() routine is available
?S: to return a pointer to the start of the first occurrence of a
?S: substring in a memory area (or NULL if not found).
?S:.
?C:HAS_MEMMEM:
?C: This symbol, if defined, indicates that the memmem routine is
?C: available to return a pointer to the start of the first occurrence
?C: of a substring in a memory area (or NULL if not found).
?C: In glibc, memmem is a GNU extension.  The function is visible in
?C: libc, but the prototype is only visible if _GNU_SOURCE is #defined.
?C: Thus we only define this if both the prototype and symbol are found.
?C:.
?H:#$d_memmem
 HAS_MEMMEM  /**/
?H:.
?T:d_memmem_proto xx1 xx2 xx3 xx4
?LINT:set d_memmem
```

```
: see if memmem exists
: We need both a prototype in string.h and the symbol in libc.
echo " "
d_memmem_proto="
xx1="#$d_gnulibc HAS_GNULIBC"
xx2='#if defined(HAS_GNULIBC) && !defined(_GNU_SOURCE)'
xx3='#   define _GNU_SOURCE'
xx4='#endif'
set d_memmem_proto memmem literal "$xx1" literal "$xx2" literal "$xx3" literal "$xx4" define string.h
eval $hasproto
case "$d_memmem_proto" in
   define) # see if memmem exists
 set memmem d_memmem
 eval $inlibc
 ;;
   *)  val=$undef
 set d_memmem
 eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_memmem.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: errnolist.U,v 3.0.1.2 1997/02/28 15:48:01 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: errnolist.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:48:01  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: likewise for .o replaced by $_o
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:10:54  ram
?RCS: patch16: created
?RCS:
?MAKE:errnolist errnolist_SH errnolist_a errnolist_c errnolist_o: cat \
 Compile +d_sysernlst _a _o
?MAKE: -pick add $@ %<
?S:errnolist:
```

```
?S: This variable holds the base name of a file containing the
?S: definition
 of the sys_errnolist array, if the C library
?S: doesn't provide it already.  Otherwise, its value is empty.
?S: The following lines should be included in your Makefile.SH:
?S:
?S:  case "$errnolist" in
?S:  ") ;;
?S:  *)
?S:   $spitshell >>Makefile <<!GROK!THIS!
?S:  $errnolist_c: $errnolist_SH $errnolist_a
?S:   sh ./$errnolist_SH
?S:
?S:  !GROK!THIS!
?S:   ;;
?S:  esac
?S:
?S: You may define the 'errnolist' variable in your Myinit.U if you
?S: wish to override its default value "errnolist".
?S:.
?S:errnolist_SH:
?S: This is the name of a file which will generate errnolistc.
?S:.
?S:errnolist_a:
?S: This is the name of the awk script called by errnolist_SH.
?S:.
?S:errnolist_c:
?S: This is the name of a generated C file which provides the
?S: definition of the sys_errnolist array.
?S:.
?S:errnolist_o:
?S: This is the name of the object file which provides the
?S: definition of the sys_errnolist array, if the C library
?S: doesn't provide it already.  Otherwise, its value is
 empty.
?S:.
?INIT:errnolist=errnolist
: check for sys_errnolist
@if d_sysernlst || HAS_SYS_ERRNOLIST
case "$d_sysernlst" in
"$define")
   errnolist="
   errnolist_SH="
   errnolist_a="
   errnolist_c="
   errnolist_o="
 ;;
*)
```

```
 echo " "
 echo "I'll make sure your Makefile provides sys_errnolist in $errnolist.c"
   errnolist_SH=$errnolist.SH
   errnolist_a=$errnolist$_a
   errnolist_c=$errnolist.c
   errnolist_o=$errnolist$_o
 ;;
esac
@else
echo " "
$cat <<EOM
Checking to see if your C library provides us with sys_errnolist[]...
EOM
$cat >errnolist.c <<'EOCP'
extern char *sys_errnolist[];
int main() {
   char *p0 = sys_errnolist[0];
   char *p1 = sys_errnolist[1];

   return (p0 == p1); /* Make sure they're not optimized away */
}
EOCP
set errnolist
if eval $compile; then
   echo "It does."
   errnolist="
   errnolist_SH="
   errnolist_a="
   errnolist_c="
   errnolist_o="
else
 echo "I'll make sure your Makefile provides sys_errnolist in $errnolist.c"
   errnolist_SH=$errnolist.SH
    errnolist_a=$errnolist$_a
   errnolist_c=$errnolist.c
   errnolist_o=$errnolist$_o
fi
@end
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/errnolist.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: prototype.U,v 3.0.1.3 1994/05/06 15:11:49 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
```

?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: prototype.U,v $
?RCS: Revision 3.0.1.3 1994/05/06 15:11:49 ram
?RCS: patch23: ensure cc flags used when looking for prototype support
?RCS:
?RCS: Revision 3.0.1.2 1994/01/24 14:15:36 ram
?RCS: patch16: prototype handling macros now appear only when needed
?RCS:
?RCS: Revision 3.0.1.1 1993/08/25 14:03:12 ram
?RCS: patch6: defines were referring to non-existent VOID symbol
?RCS:
?RCS: Revision 3.0 1993/08/18 12:09:36 ram
?RCS: Baseline for dist
 3.0 netwide release.
?RCS:
?MAKE:prototype: Nothing
?S:prototype:
?S: This variable holds the eventual value of CAN_PROTOTYPE, which
?S: indicates the C compiler can handle function prototypes.
?S:.
: stub, never used
prototype=nothing

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/prototype.U
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_dlopen.U,v $
?RCS: Revision 3.0.1.2 1995/07/25 13:52:56 ram
?RCS: patch56: force compile-link test since symbol might lie in crt0.o (ADO)

```
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:34  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_dlopen: Inlibc runnm
?MAKE: -pick add $@ %<
?S:d_dlopen:
?S: This variable conditionally defines the HAS_DLOPEN symbol, which
?S: indicates to the C program that the dlopen() routine
 is available.
?S:.
?C:HAS_DLOPEN :
?C: This symbol, if defined, indicates that the dlopen routine is
?C: available.
?C:.
?H:#$d_dlopen HAS_DLOPEN  /**/
?H:.
?T: xxx_runnm
?LINT:set d_dlopen
?X: We don't permanently change runnm, but we do temporarily.
?LINT: change runnm
: see if dlopen exists
?X: On NetBSD and FreeBSD, dlopen is available, but it is in
?X: /usr/lib/crt0.o, not in any of the libraries.  Therefore, do not
?X: use the nm extraction, but use a real compile and link test instead.
xxx_runnm="$runnm"
runnm=false
set dlopen d_dlopen
eval $inlibc
runnm="$xxx_runnm"
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_dlopen.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: fpu.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:10  ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:fpu: test cat cc Myread
?MAKE: -pick add $@ %<
?S:fpu (fpunit):
?S: Set to be the compile flag for the local floating point unit.
?S:.
?C:FPU (FPUNIT):
?C: String containing the flags for the local floating point unit.
?C:.
?H:#define FPU "$fpu" /**/
?H:.
: see what floating point compile flags should be used.
fpu=''
if $test -r /dev/fpa; then
 $cat>fpa.c << GOOP
 main(){return(1);}
GOOP
 $cc
 -ffpa -o fpa fpa.c
 fpa > fpa.out 2>&1
 if $test ! -s fpa.out; then
  dflt='y'
  $cat <<'EOM'

You seem to have a sun fpa...  I can compile the code to use the fpa but it will
mean that the code can ONLY run on a machine with a fpa...

EOM
  rp="Should I compile for fpa?"
  . ./myread
  if $test $ans = "n"; then
   fpu=''
  else
   fpu='-ffpa'
  fi
 else
  $cat <<'EOM'

You have the fpa device but I can't seem to use it.  Maybe you should talk to
your sysadmin about this.  For now, I am not going to compile it in.

EOM
 fi
fi
if $test "$fpu" = ''; then
 if $test -r /usr/etc/mc68881version; then
  dflt='y'
```

```
  $cat <<'EOM'

There also seems to be the pieces for a 68881.  If I compile this in, it will
work on almost all Sun 3's except for a few Sun-3/50s without a 68881...

EOM
  rp="Should I compile for a 68881?"
  . ./myread
  if $test $ans = "y"; then
   fpu='-f68881'
  fi
 fi
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/fpu.U
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```
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_scalbnl: Inlibc
?MAKE: -pick add $@ %<
?S:d_scalbnl:
?S: This variable conditionally defines the HAS_SCALBNL symbol, which
?S: indicates to the C program that the scalbnl() routine is available.
?S: If ilogbl is also present we can emulate frexpl.
?S:.
?C:HAS_SCALBNL:
?C: This symbol, if defined, indicates that the scalbnl routine is
?C: available.  If ilogbl is also present we can emulate frexpl.
?C:.
?H:#$d_scalbnl HAS_SCALBNL  /**/
?H:.
?LINT:set d_scalbnl
: see if scalbnl exists
set scalbnl d_scalbnl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_scalbnl.U

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```
?RCS: $Id: i_grp.U,v 3.0 1993/08/18 12:08:20 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: GRPASSWD detection added by Andy Dougherty  July 14, 1998.
?RCS:
?RCS: $Log: i_grp.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:20  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_grp d_grpasswd: \
 contains rm cppstdin cppflags cppminus Inhdr Findhdr Setvar
?MAKE: -pick add $@ %<
?S:i_grp:
?S: This variable conditionally defines the I_GRP symbol, and indicates
?S: whether a C program should include <grp.h>.
?S:.
?S:d_grpasswd:
?S: This variable conditionally
 defines GRPASSWD, which indicates
?S: that struct group in <grp.h> contains gr_passwd.
?S:.
?C:I_GRP:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <grp.h>.
?C:.
?C:GRPASSWD:
?C: This symbol, if defined, indicates to the C program that struct group
?C: in <grp.h> contains gr_passwd.
?C:.
?H:#$i_grp I_GRP  /**/
?H:#$d_grpasswd GRPASSWD /**/
?H:.
?LINT:set i_grp d_grpasswd
?T: xxx
: see if this is an grp system
set grp.h i_grp
eval $inhdr

case "$i_grp" in
```

```
$define)
 xxx=`./findhdr grp.h`
 $cppstdin $cppflags $cppminus < $xxx >$$.h

 if $contains 'gr_passwd' $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_grpasswd
 eval $setvar

 $rm -f $$.h
 ;;
*)
 val="$undef";
 set d_grpasswd; eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_grp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ckeypad.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_ckeypad.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_ckeypad: cat cc termlib Setvar
?MAKE: -pick add $@ %<
?S:d_ckeypad:
?S: This variable controls the definition of HAS_CURSES_KEYPAD,
?S: which tells the application that the keypad() curses function
?S: is available.
?S:.
?C:HAS_CURSES_KEYPAD:
?C: This symbol indicates the availability of the keypad() function
```

```
?C: of the curses library.
?C:.
?H:#$d_ckeypad
 HAS_CURSES_KEYPAD /**/
?H:.
?LINT:set d_ckeypad
: check for the "keypad()" function in the curses library
echo " "
case "$termlib" in
")
 echo "You don't have a curses library, so I won't waste time looking" >&4
 echo "to see if has the keypad() function." >&4
*)
echo "Checking the curses library ($termlib) for the keypad() function..." >&4
 $cat >c_keypad.c <<'EOCP'
#include <curses.h>
int main() {
 keypad(stdscr, TRUE);
 exit(0);
}
EOCP
 if $cc c_keypad.c >c_keypad.out 2>&1 ; then
  val=$define
  echo "It appears to have the keypad() function."
 else
  val=$undef
  echo "Your curses library doesn't appear to have the keypad() function."
 fi
esac
set d_ckeypad
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_ckeypad.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: startsh.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: startsh.U,v $
```

```
?RCS: Revision 3.0.1.1  1997/02/28  16:25:31  ram
?RCS: patch61: avoid needless chatter since this is now done very early
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:startsh: sh sharpbang eunicefix
?MAKE: -pick add $@ %<
?S:startsh:
?S: This variable contains the string to put on the front of a shell
?S: script to make sure (hopefully) that it runs with sh and not some
?S: other
 shell.
?S:.
?F:!sharp
: figure out how to guarantee sh startup
?X: Avoid needless chatter since this is now done very early.
?X: echo " "
?X: echo "Checking out how to guarantee sh startup..." >&2
case "$startsh" in
") startsh=${sharpbang}${sh} ;;
*)
?X: echo "Let's see if '$startsh' works..." ;;
esac
cat >sharp <<EOSS
$startsh
set abc
test "$?abc" != 1
EOSS

chmod +x sharp
$eunicefix sharp
if ./sharp; then
 : echo "Yup, it does."
else
 echo "Hmm... '$startsh' does not guarantee sh startup..."
 echo "You may have to fix up the shell scripts to make sure $sh runs them."
fi
rm -f sharp
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/startsh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_bsdjmp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_bsdjmp.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:31:10  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:09:09  ram
?RCS: patch36: call ./usg explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_bsdjmp: Guess Setvar cat +cc libs rm
?MAKE: -pick add $@ %<
?S:d_bsdjmp:
?S: This variable conditionally defines USE_BSDJMP
 if BSD _setjmp and
?S: _longjmp routines are available to do non-local gotos without saving
?S: or restoring the signal mask flag.
?S:.
?C:USE_BSDJMP (BSDJMP):
?C: This symbol, if defined, indicates that the BSD _setjmp and _longjmp
?C: routines are available to do non-local gotos wihtout saving or restoring
?C: the signal mask flag.
?C:.
?H:#$d_bsdjmp USE_BSDJMP  /**/
?H:.
?F:!set
?LINT:set d_bsdjmp
: see if _setjmp and _longjmp exists
?X: We can't check for these symbols with Inlibc because of the leading "_"
echo " "
case "$d_bsdjmp" in
")
 $cat >set.c <<EOP
#include <setjmp.h>
jmp_buf env;
int set = 1;
int main()
{
 if (_setjmp(env))
  exit(set);
 set = 0;
```

```
 _longjmp(env, 1);
 exit(1);
}
EOP
 if $cc -o set set.c $libs >/dev/null 2>&1; then
  if ./set >/dev/null 2>&1; then
   echo "Good! You have BSD _setjmp and _longjmp routines." >&4
   val="$define"
  else
   $cat <<EOM
Uh-Oh! You have BSD _setjmp and _longjmp, but they do not work properly!!
EOM
   val="$undef"
  fi
 else
  if
 ./usg; then
   echo "You do not have _setjmp and _longjmp, but that's fine." >&4
  else
   cat <<EOM
It sounds strange for a BSD system to miss _setjmp and _longjmp, but that's ok.
EOM
  fi
  val="$undef"
 fi
 ;;
*) val="$d_bsdjmp"
 case "$d_bsdjmp" in
 $define) echo "Good! You have BSD _setjmp and _longjmp routines." >&4;;
 $undef) echo "You do not have _setjmp and _longjmp, but that's fine." >&4;;
 esac
 ;;
esac
set d_bsdjmp
eval $setvar
$rm -f set.c set
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_bsdjmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getgrgid_r.U,v 0RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
```

```
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getgrgid_r getgrgid_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_grp extern_C
?MAKE: -pick add $@ %<
?S:d_getgrgid_r:
?S: This variable conditionally defines the HAS_GETGRGID_R symbol,
?S: which indicates to the C program that the getgrgid_r()
?S: routine is available.
?S:.
?S:getgrgid_r_proto:
?S: This variable encodes the prototype of getgrgid_r.
?S: It is zero if d_getgrgid_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getgrgid_r
?S: is defined.
?S:.
?C:HAS_GETGRGID_R:
?C: This symbol, if defined, indicates that the getgrgid_r routine
?C: is available to
 getgrgid re-entrantly.
?C:.
?C:GETGRGID_R_PROTO:
?C: This symbol encodes the prototype of getgrgid_r.
?C: It is zero if d_getgrgid_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getgrgid_r
?C: is defined.
?C:.
?H:#$d_getgrgid_r HAS_GETGRGID_R /**/
?H:#define GETGRGID_R_PROTO $getgrgid_r_proto /**/
?H:.
?T:try hdrs d_getgrgid_r_proto
: see if getgrgid_r exists
set getgrgid_r d_getgrgid_r
eval $inlibc
case "$d_getgrgid_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_grp grp.h"
 case "$d_getgrgid_r_proto:$usethreads" in
 ":define") d_getgrgid_r_proto=define
  set d_getgrgid_r_proto getgrgid_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getgrgid_r_proto" in
 define)
 case "$getgrgid_r_proto" in
 "|0) try='int getgrgid_r(gid_t, struct group*, char*, size_t, struct group**);'
 ./protochk "$extern_C $try" $hdrs && getgrgid_r_proto=I_TSBWR ;;
```

```
 esac
 case "$getgrgid_r_proto" in
 "|0) try='int getgrgid_r(gid_t, struct group*, char*, int, struct
 group**);'
 ./protochk "$extern_C $try" $hdrs && getgrgid_r_proto=I_TSBIR ;;
 esac
 case "$getgrgid_r_proto" in
 "|0) try='int getgrgid_r(gid_t, struct group*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getgrgid_r_proto=I_TSBI ;;
 esac
 case "$getgrgid_r_proto" in
 "|0) try='struct group* getgrgid_r(gid_t, struct group*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getgrgid_r_proto=S_TSBI ;;
 esac
 case "$getgrgid_r_proto" in
 "|0) d_getgrgid_r=undef
  getgrgid_r_proto=0
  echo "Disabling getgrgid_r, cannot determine prototype." >&4 ;;
 * ) case "$getgrgid_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getgrgid_r_proto="REENTRANT_PROTO_$getgrgid_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getgrgid_r has no prototype, not using it." >&4 ;;
  esac
  d_getgrgid_r=undef
  getgrgid_r_proto=0
  ;;
 esac
 ;;
*) getgrgid_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getgrgid_r.U
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?RCS: $Id: vaproto.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Orginal Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: vaproto.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:17:16  ram
?RCS: patch16: definition of _V now appears only when needed
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:59  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:vaproto: prototype i_stdarg Setvar
?MAKE: -pick add $@ %<
?S:vaproto:
?S: This variable conditionally defines CAN_VAPROTO on systems supporting
?S: prototype
 declaration of functions with a variable number of
?S: arguments. See also prototype.
?S:.
?C:CAN_VAPROTO ~ %<:
?C: This variable is defined on systems supporting prototype declaration
?C: of functions with a variable number of arguments.
?C:.
?C:_V:
?C: This macro is used to declare function parameters in prototypes for
?C: functions with a variable number of parameters. Use double parentheses.
?C: For example:
?C:
?C:  int printf _V((char *fmt, ...));
?C:
?C: Remember to use the plain simple _() macro when declaring a function
?C: with no variable number of arguments, since it might be possible to
?C: have a non-effect _V() macro and still get prototypes via _().
?C:.
?H:?%<:#$vaproto CAN_VAPROTO /**/
?H:?_V:#ifdef CAN_VAPROTO
?H:?_V:#define _V(args) args
?H:?_V:#else
?H:?_V:#define _V(args) ()
?H:?_V:#endif
?H:.
?LINT:set vaproto
: see if prototypes support variable argument declarations
echo " "
case "$prototype$i_stdarg" in
$define$define)
```

```
 echo "It appears we'll be able
 to prototype varargs functions." >&4
 val="$define"
 ;;
*)
 echo "Too bad... We won't be using prototyped varargs functions..." >&4
 val="$undef"
 ;;
esac
set vaproto
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/vaproto.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:ilp d_ilp32 d_ilp64 d_lp64 d_can64: Assert Myread Setvar \
 cat rm +cc +ccflags echo n c intsize longsize ptrsize
?MAKE: -pick add $@ %<
?S:ilp:
?S: This variable contains the largest amount of bits that the CPU supports,
?S: from the compiler's point of view.  Typically 32 or 64.
?S:.
?S:d_ilp32:
?S: This variable conditionally defines the CPU_IS_ILP32.
?S:.
?S:d_ilp64:
?S: This variable conditionally defines the CPU_IS_ILP64.
?S:.
?S:d_lp64:
?S: This variable conditionally defines the CPU_IS_LP64.
?S:.
?S:d_can64:
?S: This variable
 conditionally defines CAN_HANDLE_64BITS.
?S:.
?C:CPU_ILP_MAXBITS:
?C: This symbol contains the largest amount of bits that the CPU natively
```

```
?C: supports from the compiler's point of view.  Typically 32 or 64.
?C:.
?C:CPU_IS_ILP32:
?C: When defined, this indicates that the integer, long and pointer variables
?C: hold 32-bit values.
?C:.
?C:CPU_IS_ILP64:
?C: When defined, this indicates that the integer, long and pointer variables
?C: hold 64-bit values.
?C:.
?C:CPU_IS_LP64:
?C: When defined, this indicates that the long and pointer variables hold
?C: 64-bit values but integers are smaller (probably only 32-bit wide).
?C:.
?C:CAN_HANDLE_64BITS:
?C: When defined, this indicates that the compiler can handle 64-bit values
?C: despite the CPU having only 32-bit registers.  These are available using
?C: the "long long" C type.  It is only defined for ILP32 machines, since
?C: 64-bit support is naturally available on ILP64 and LP64 machines.
?C:.
?H:#define CPU_ILP_MAXBITS $ilp
?H:#$d_ilp32
 CPU_IS_ILP32 /**/
?H:#$d_ilp64 CPU_IS_ILP64 /**/
?H:#$d_lp64 CPU_IS_LP64  /**/
?H:#$d_can64 CAN_HANDLE_64BITS /**/
?H:.
?LINT: set d_ilp32 d_ilp64 d_lp64 d_can64
: check for architecture type
echo " "
$echo $n "Computing CPU architecture type...$c" >&4
ilp=`expr $longsize \* 8`
case "$ptrsize" in
8)
 val=$undef; set d_ilp32; eval $setvar
 case "$intsize" in
 8)
  echo " ILP64." >&4
  val=$define; set d_ilp64; eval $setvar
  val=$undef; set d_lp64; eval $setvar
  ;;
 *)
  echo " LP64." >&4
  val=$define; set d_lp64; eval $setvar
  val=$undef; set d_ilp64; eval $setvar
  ;;
 esac
 ;;
```

```
*)
 echo " ILP${ilp}." >&4
 case "$ilp" in
 32) val=$define;;
 *) val=$undef;;
 esac
 set d_ilp32; eval $setvar
 val=$undef; set d_ilp64; eval $setvar
 val=$undef; set d_lp64; eval $setvar
 ;;
esac

@if CAN_HANDLE_64BITS || d_can64
: see whether compiler supports 64-bit emulation
val=$undef
case "$ilp" in
64) val=$define;;
*)
 $cat >try.c <<EOCP
#include "static_assert.h"
long long foo;
int main()
{
 STATIC_ASSERT(8
 == sizeof(foo));
 return 0;
}
EOCP
 if $cc -c $ccflags try.c >/dev/null 2>&1; then
  echo " "
  echo "Your compiler also supports 64-bit emulation." >&4
  val=$define
 fi
 $rm -f try.*
 ;;
esac
set d_can64
eval $setvar

@end
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/ilp.U
No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.

```
?RCS:
?MAKE:d_expm1: Inlibc
?MAKE: -pick add $@ %<
?S:d_expm1:
?S: This variable conditionally defines the HAS_EXPM1 symbol, which
?S: indicates to the C program that the expm1() routine is available.
?S:.
?C:HAS_EXPM1:
?C: This symbol, if defined, indicates that the expm1 routine is
?C: available to do the exp(x) - 1 when x is near 1 function.
?C:.
?H:#$d_expm1 HAS_EXPM1  /**/
?H:.
?LINT:set d_expm1
: see if expm1 exists
set expm1 d_expm1
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_expm1.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_limits.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_limits.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:20  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_limits: Inhdr
?MAKE: -pick add $@ %<
?S:i_limits:
?S: This variable conditionally defines the I_LIMITS symbol, and indicates
?S: whether a C program may include <limits.h> to get symbols like WORD_BIT
?S: and friends.
?S:.
?C:I_LIMITS:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <limits.h> to
```

```
 get definition of symbols like WORD_BIT or
?C: LONG_MAX, i.e. machine dependant limitations.
?C:.
?H:#$i_limits I_LIMITS  /**/
?H:.
?LINT:set i_limits
: see if this is a limits.h system
set limits.h i_limits
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_limits.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sig_name.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  16:21:25  ram
?RCS: patch61: brand new algorithm for sig_name and (new!) sig_num
?RCS:
?RCS: Revision 3.0.1.4  1995/07/25  14:14:54  ram
?RCS: patch56: added <asm/signal.h> lookup for linux
?RCS:
?RCS: Revision 3.0.1.3  1995/05/12  12:24:11  ram
?RCS: patch54: now looks for <linux/signal.h> too (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20  07:06:57  ram
?RCS: patch30: final echo was missing to close awk-printed string
?RCS:
?RCS: Revision 3.0.1.1
  1994/05/06  15:17:55  ram
?RCS: patch23: signal list now formatted to avoid scroll-ups (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:sig_name sig_name_init sig_num sig_num_init sig_count sig_size: \
 awk Signal Oldconfig rm
?MAKE: -pick add $@ %<
```

```
?S:sig_name:
?S: This variable holds the signal names, space separated. The leading
?S: SIG in signal name is removed.  A ZERO is prepended to the
?S: list.  This is currently not used.
?S:.
?S:sig_name_init:
?S: This variable holds the signal names, enclosed in double quotes and
?S: separated by commas, suitable for use in the SIG_NAME definition
?S: below.  A "ZERO" is prepended to the list, and the list is
?S: terminated with a plain 0.  The leading SIG in signal names
?S: is removed. See sig_num.
?S:.
?S:sig_num:
?S: This variable holds the signal numbers, space separated. A ZERO is
?S: prepended to the list (corresponding to the fake SIGZERO), and
?S: the list is terminated
 with a 0.  Those numbers correspond to
?S: the value of the signal listed in the same place within the
?S: sig_name list.
?S:.
?S:sig_num_init:
?S: This variable holds the signal numbers, enclosed in double quotes and
?S: separated by commas, suitable for use in the SIG_NUM definition
?S: below.  A "ZERO" is prepended to the list, and the list is
?S: terminated with a plain 0.
?S:.
?S:sig_count (sig_name.U):
?S:  This variable holds a number larger than the largest valid
?S:  signal number.  This is usually the same as the NSIG macro.
?S:.
?S:sig_size:
?S:  This variable contains the number of elements of the sig_name
?S:  and sig_num arrays, excluding the final NULL entry.
?S:.
?C:SIG_NAME:
?C: This symbol contains a list of signal names in order of
?C: signal number. This is intended
?C: to be used as a static array initialization, like this:
?C:  char *sig_name[] = { SIG_NAME };
?C: The signals in the list are separated with commas, and each signal
?C: is surrounded by double
 quotes. There is no leading SIG in the signal
?C: name, i.e. SIGQUIT is known as "QUIT".
?C: Gaps in the signal numbers (up to NSIG) are filled in with NUMnn,
?C: etc., where nn is the actual signal number (e.g. NUM37).
?C: The signal number for sig_name[i] is stored in sig_num[i].
?C: The last element is 0 to terminate the list with a NULL.  This
?C: corresponds to the 0 at the end of the sig_num list.
```

```
?C:.
?C:SIG_NUM:
?C: This symbol contains a list of signal numbers, in the same order as the
?C: SIG_NAME list. It is suitable for static array initialization, as in:
?C:  int sig_num[] = { SIG_NUM };
?C: The signals in the list are separated with commas, and the indices
?C: within that list and the SIG_NAME list match, so it's easy to compute
?C: the signal name from a number or vice versa at the price of a small
?C: dynamic linear lookup.
?C: Duplicates are allowed, but are moved to the end of the list.
?C: The signal number corresponding to sig_name[i] is sig_number[i].
?C: if (i
 < NSIG) then sig_number[i] == i.
?C: The last element is 0, corresponding to the 0 at the end of
?C: the sig_name list.
?C:.
?C:SIG_COUNT:
?C: This variable contains a number larger than the largest
?C: signal number.  This is usually the same as the NSIG macro.
?C:.
?C:SIG_SIZE:
?C: This variable contains the number of elements of the sig_name
?C: and sig_num arrays, excluding the final NULL entry.
?C:.
?H:#define SIG_NAME $sig_name_init  /**/
?H:#define SIG_NUM  $sig_num_init  /**/
?H:#define SIG_COUNT $sig_count   /**/
?H:#define SIG_SIZE $sig_size   /**/
?H:.
?T:i doinit
?F:!= !signal_cmd
?X: signal.cmd creates a file  signal.lst which has two columns:
?X: NAME  number, e.g.
?X:  HUP 1
?X: The list is sorted on signal number, with duplicates moved to
?X: the end..
: generate list of signal names
echo " "
case "$sig_name_init" in
") doinit=yes ;;
*)  case "$sig_num_init" in
   "|*,*) doinit=yes ;;
   esac ;;
esac
case "$doinit" in
yes)
 echo "Generating a list of signal names and
```

```
 numbers..." >&4
 . ./signal_cmd
 sig_count=`$awk '/^NSIG/ { printf "%d", $2 }' signal.lst`
 sig_name=`$awk 'BEGIN { printf "ZERO " }
   !/^NSIG/ { printf "%s ", $1 }' signal.lst`
 sig_num=`$awk  'BEGIN { printf "0 " }
   !/^NSIG/ { printf "%d ", $2 }' signal.lst`
 sig_name_init=`$awk 'BEGIN { printf "\"ZERO\", " }
        !/^NSIG/ { printf "\"%s\", ", $1 }
        END { printf "0\n" }' signal.lst`
 sig_num_init=`$awk  'BEGIN { printf "0, " }
        !/^NSIG/ { printf "%d, ", $2}
        END { printf "0\n"}' signal.lst`
 ;;
esac
echo "The following $sig_count signals are available:"
echo " "
echo $sig_name | $awk \
'BEGIN { linelen = 0 }
{
 for (i = 1; i <= NF; i++) {
  name = "SIG" $i " "
  linelen = linelen + length(name)
  if (linelen > 70) {
   printf "\n"
   linelen = length(name)
  }
  printf "%s", name
 }
 printf "\n"
}'
sig_size=`echo $sig_name | awk '{print NF}'`
$rm -f signal signal.c signal.awk signal.lst signal_cmd
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/sig_name.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getgrent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getgrent_r getgrent_r_proto: Inlibc Protochk Hasproto i_systypes \
```

```
 usethreads i_grp extern_C
?MAKE: -pick add $@ %<
?S:d_getgrent_r:
?S: This variable conditionally defines the HAS_GETGRENT_R symbol,
?S: which indicates to the C program that the getgrent_r()
?S: routine is available.
?S:.
?S:getgrent_r_proto:
?S: This variable encodes the prototype of getgrent_r.
?S: It is zero if d_getgrent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getgrent_r
?S: is defined.
?S:.
?C:HAS_GETGRENT_R:
?C: This symbol, if defined, indicates that the getgrent_r routine
?C: is available to
 getgrent re-entrantly.
?C:.
?C:GETGRENT_R_PROTO:
?C: This symbol encodes the prototype of getgrent_r.
?C: It is zero if d_getgrent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getgrent_r
?C: is defined.
?C:.
?H:#$d_getgrent_r HAS_GETGRENT_R /**/
?H:#define GETGRENT_R_PROTO $getgrent_r_proto /**/
?H:.
?T:try hdrs d_getgrent_r_proto
: see if getgrent_r exists
set getgrent_r d_getgrent_r
eval $inlibc
case "$d_getgrent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_grp grp.h"
 case "$d_getgrent_r_proto:$usethreads" in
 ":define") d_getgrent_r_proto=define
  set d_getgrent_r_proto getgrent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getgrent_r_proto" in
 define)
 case "$getgrent_r_proto" in
 "|0) try='int getgrent_r(struct group*, char*, size_t, struct group**);'
 ./protochk "$extern_C $try" $hdrs && getgrent_r_proto=I_SBWR ;;
 esac
 case "$getgrent_r_proto" in
 "|0) try='int getgrent_r(struct group*, char*, int, struct group**);'
```

```
./protochk
"$extern_C $try" $hdrs && getgrent_r_proto=I_SBIR ;;
esac
case "$getgrent_r_proto" in
"|0) try='struct group* getgrent_r(struct group*, char*, size_t);'
./protochk "$extern_C $try" $hdrs && getgrent_r_proto=S_SBW ;;
esac
case "$getgrent_r_proto" in
"|0) try='struct group* getgrent_r(struct group*, char*, int);'
./protochk "$extern_C $try" $hdrs && getgrent_r_proto=S_SBI ;;
esac
case "$getgrent_r_proto" in
"|0) try='int getgrent_r(struct group*, char*, int);'
./protochk "$extern_C $try" $hdrs && getgrent_r_proto=I_SBI ;;
esac
case "$getgrent_r_proto" in
"|0) try='int getgrent_r(struct group*, char*, int, FILE**);'
./protochk "$extern_C $try" $hdrs && getgrent_r_proto=I_SBIH ;;
esac
case "$getgrent_r_proto" in
"|0) d_getgrent_r=undef
 getgrent_r_proto=0
 echo "Disabling getgrent_r, cannot determine prototype." >&4 ;;
* ) case "$getgrent_r_proto" in
 REENTRANT_PROTO*) ;;
 *) getgrent_r_proto="REENTRANT_PROTO_$getgrent_r_proto" ;;
 esac
 echo "Prototype:
$try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "getgrent_r has no prototype, not using it." >&4 ;;
 esac
 d_getgrent_r=undef
 getgrent_r_proto=0
 ;;
esac
;;
*) getgrent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getgrent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2005-2007 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_libm_lib_version: Compile cat run rm_try
?MAKE: -pick add $@ %<
?S:d_libm_lib_version:
?S: This variable conditionally defines the LIBM_LIB_VERSION symbol,
?S: which indicates to the C program that math.h defines _LIB_VERSION
?S: being available in libm
?S:.
?C:LIBM_LIB_VERSION:
?C: This symbol, if defined, indicates that libm exports _LIB_VERSION
?C: and that math.h defines the enum to manipulate it.
?C:.
?H:#$d_libm_lib_version LIBM_LIB_VERSION  /**/
?H:.
?T:foo
?F:!try
: check to see if math.h defines _LIB_VERSION
d_libm_lib_version="$undef"
echo " "
echo "Checking to see if your libm supports _LIB_VERSION..." >&4
$cat >try.c <<EOCP
#include <unistd.h>
#include <math.h>
int main (int argc, char *argv[])
{
    printf ("%d\n", _LIB_VERSION);
   return (0);
   } /* main */
EOCP
set try
if eval $compile; then
   foo=`$run ./try`
   echo "Yes, it does ($foo)" >&4
   d_libm_lib_version="$define"
else
   echo "No, it does not (probably harmless)" >&4
   fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_libm_lib_version.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setlocale_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_setlocale_r setlocale_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_locale extern_C
?MAKE: -pick add $@ %<
?S:d_setlocale_r:
?S: This variable conditionally defines the HAS_SETLOCALE_R symbol,
?S: which indicates to the C program that the setlocale_r()
?S: routine is available.
?S:.
?S:setlocale_r_proto:
?S: This variable encodes the prototype of setlocale_r.
?S: It is zero if d_setlocale_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setlocale_r
?S: is defined.
?S:.
?C:HAS_SETLOCALE_R:
?C: This symbol, if defined, indicates that the setlocale_r routine
?C: is
 available to setlocale re-entrantly.
?C:.
?C:SETLOCALE_R_PROTO:
?C: This symbol encodes the prototype of setlocale_r.
?C: It is zero if d_setlocale_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setlocale_r
?C: is defined.
?C:.
?H:#$d_setlocale_r HAS_SETLOCALE_R /**/
?H:#define SETLOCALE_R_PROTO $setlocale_r_proto /**/
?H:.
?T:try hdrs d_setlocale_r_proto
: see if setlocale_r exists
set setlocale_r d_setlocale_r
eval $inlibc
case "$d_setlocale_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_locale locale.h"
 case "$d_setlocale_r_proto:$usethreads" in
 ":define") d_setlocale_r_proto=define
  set d_setlocale_r_proto setlocale_r $hdrs
  eval $hasproto ;;
 *) ;;
```

```
 esac
 case "$d_setlocale_r_proto" in
 define)
 case "$setlocale_r_proto" in
 "|0) try='int setlocale_r(int, const char*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && setlocale_r_proto=I_ICBI ;;
 esac
 case "$setlocale_r_proto" in
 "|0) d_setlocale_r=undef
  setlocale_r_proto=0
  echo
 "Disabling setlocale_r, cannot determine prototype." >&4 ;;
 * ) case "$setlocale_r_proto" in
  REENTRANT_PROTO*) ;;
  *) setlocale_r_proto="REENTRANT_PROTO_$setlocale_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "setlocale_r has no prototype, not using it." >&4 ;;
  esac
  d_setlocale_r=undef
  setlocale_r_proto=0
  ;;
 esac
 ;;
*) setlocale_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_setlocale_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:need_va_copy: rm_try cat Compile run
?MAKE: -pick add $@ %<
```

```
?S:need_va_copy:
?S: This symbol, if defined, indicates that the system stores
?S: the variable argument list datatype, va_list, in a format
?S: that cannot be copied by simple assignment, so that some
?S: other means must be used when copying is required.
?S: As such systems vary in their provision (or non-provision)
?S: of copying mechanisms, handy.h defines a platform-
?S: independent macro, Perl_va_copy(src, dst), to do the job.
?S:.
?C:NEED_VA_COPY:
?C: This
 symbol, if defined, indicates that the system stores
?C: the variable argument list datatype, va_list, in a format
?C: that cannot be copied by simple assignment, so that some
?C: other means must be used when copying is required.
?C: As such systems vary in their provision (or non-provision)
?C: of copying mechanisms, handy.h defines a platform-
?C: independent macro, Perl_va_copy(src, dst), to do the job.
?C:.
?H:#$need_va_copy NEED_VA_COPY  /**/
?H:.
?T:okay
?F:!try
: see if we need va_copy
echo " "
$cat >try.c <<EOCP
#include <stdarg.h>
#include <stdio.h>
#include <stdlib.h>
#include <signal.h>

int
ivfprintf(FILE *f, const char *fmt, va_list *valp)
{
 return vfprintf(f, fmt, *valp);
}

int
myvfprintf(FILE *f, const  char *fmt, va_list val)
{
 return ivfprintf(f, fmt, &val);
}

int
myprintf(char *fmt, ...)
{
 va_list val;
 va_start(val, fmt);
```

```
 return myvfprintf(stdout, fmt, val);
}

int
main(int ac, char **av)
{
 signal(SIGSEGV, exit);
#ifdef SIGBUS
 signal(SIGBUS,
 exit);
#endif

 myprintf("%s%cs all right, then\n", "that", '\');
 exit(0);
}
EOCP
set try
if eval $compile && $run ./try 2>&1 >/dev/null; then
 case "`$run ./try`" in
 "that's all right, then")
  okay=yes
  ;;
 esac
fi
case "$okay" in
yes) echo "It seems that you don't need va_copy()." >&4
 need_va_copy="$undef"
 ;;
*) echo "It seems that va_copy() or similar will be needed." >&4
 need_va_copy="$define"
 ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/need_va_copy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strxfrm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_strxfrm.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:12:04  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_strxfrm: Inlibc
?MAKE: -pick add $@ %<
?S:d_strxfrm:
?S: This variable conditionally defines HAS_STRXFRM if strxfrm() is
?S: available to transform strings.
?S:.
?C:HAS_STRXFRM:
?C: This symbol, if defined, indicates that the strxfrm() routine is
?C: available to transform
 strings.
?C:.
?H:#$d_strxfrm HAS_STRXFRM /**/
?H:.
?LINT:set d_strxfrm
: see if strxfrm exists
set strxfrm d_strxfrm
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strxfrm.U
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```
?RCS: $Id: i_neterrno.U,v 3.0.1.3 1994/10/29 16:20:29 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_neterrno.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:20:29  ram
?RCS: patch36: forgot to initialize 'val' to an empty value (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:22:10  ram
?RCS: patch32: removed spurious echo
```

```
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:02:05  ram
?RCS: patch30: created by ADO
?RCS:
?MAKE:i_neterrno: Inhdr +cc +ccflags rm_try Setvar
?MAKE: -pick
 add $@ %<
?S:i_neterrno:
?S: This variable conditionally defines the I_NET_ERRNO symbol, which
?S: indicates to the C program that <net/errno.h> exists and should
?S: be included.
?S:.
?C:I_NET_ERRNO:
?C: This symbol, if defined, indicates that <net/errno.h> exists and
?C: should be included.
?C:.
?H:#$i_neterrno I_NET_ERRNO  /**/
?H:.
?LINT:set i_neterrno
: see if net/errno.h is available
val=''
set net/errno.h val
eval $inhdr

: Unfortunately, it causes problems on some systems.  Arrgh.
case "$val" in
$define)
 cat > try.c <<'EOM'
#include <stdio.h>
#include <errno.h>
#include <net/errno.h>
int func()
{
 return ENOTSOCK;
}
EOM
 if $cc $ccflags -c try.c >/dev/null 2>&1; then
  echo "We'll be including <net/errno.h>." >&4
 else
  echo "We won't be including <net/errno.h>." >&4
  val="$undef"
 fi
 $rm_try
 ;;
esac
set i_neterrno
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_neterrno.U
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```
?RCS: $Id$
?RCS:
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?RCS:
?RCS: $Log: fpostype.U,v $
?RCS: Revision 3.0.1.2  1994/08/29  16:20:52  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:59:59  ram
?RCS: patch30: created
?RCS:
?MAKE:fpostype: Myread Typedef
?MAKE: -pick add $@ %<
?S:fpostype:
?S: This variable defines Fpos_t to be something like fpost_t, long,
?S: uint, or whatever type is used to declare file positions in libc.
?S:.
?C:Fpos_t:
?C: This symbol holds the type used to declare file positions
 in libc.
?C: It can be fpos_t, long, uint, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Fpos_t $fpostype  /* File position type */
?H:.
: see what type file positions are declared as in the library
set fpos_t fpostype long stdio.h sys/types.h
eval $typedef
echo " "
dflt="$fpostype"
rp="What is the type for file position used by fsetpos()?"
. ./myread
fpostype="$ans"
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/fpostype.U

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```
?RCS: $Id: d_endhent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_endhent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_endhent: Inlibc
?MAKE: -pick add $@ %<
?S:d_endhent:
?S: This variable conditionally defines HAS_ENDHOSTENT if endhostent() is
?S: available to close whatever was being used for host queries.
?S:.
?C:HAS_ENDHOSTENT:
?C: This symbol, if defined, indicates that the endhostent() routine is
?C: available to close whatever was being used for host
 queries.
?C:.
?H:#$d_endhent HAS_ENDHOSTENT  /**/
?H:.
?LINT:set d_endhent
: see if endhostent exists
set endhostent d_endhent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_endhent.U
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```
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```

```
?RCS:
?RCS: $Log: d_keepsig.U,v $
?RCS: Revision 3.0.1.4  1995/07/25  13:57:56  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:26:25  ram
?RCS: patch45: protected "sh -c" within backquotes for Linux and SGI
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:13:59  ram
?RCS: patch36: call ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.1  1993/10/16  13:48:47  ram
?RCS: patch12: comment for SIGNALS_KEPT was the other way round
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:06:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_keepsig: cat Compile rm Guess contains echo n c Setvar run
?MAKE: -pick add $@ %<
?S:d_keepsig:
?S: This variable contains the eventual value of the SIGNALS_KEPT symbol,
?S: which indicates to the C program if signal handlers need not reinstated
?S: after receipt of a signal.
?S:.
?C:SIGNALS_KEPT (PERSISTENT_SIGNAL):
?C: This symbol is defined if signal handlers needn't be reinstated after
?C: receipt of a signal.
?C:.
?H:#$d_keepsig SIGNALS_KEPT /**/
?H:.
?F:!try !try.out
?LINT:set d_keepsig
: see if signals are kept
val="$undef";
echo " "
echo "Checking to see if signal handlers stick around..." >&4
$cat >try.c <<'EOCP'
foo() {}

int main()
{
 signal(2, foo);
 kill(getpid(), 2);
 kill(getpid(), 2);
 printf("abc\n");
}
EOCP
```

```
set try
if eval $compile_ok; then
?X: On AIX a single ./try will not work (with ksh)
?X: Backquotes required on Linux and SGI (prevents "ambiguous output redirect")
?X:
 (reported by Xavier LeVourch <xavierl@eiffel.com>)
 `sh -c $run ./try >try.out 2>/dev/null`
 if $contains abc try.out >/dev/null 2>&1; then
  echo "Yes, they do."
  val="$define";
 else
  echo "No, they don't."
 fi
else
 $echo $n "(I can't seem to compile the test program. Assuming $c"
 if ./bsd; then
  echo "they do.)"
  val="$define"
 else
  echo "they don't.)"
 fi
fi
set d_keepsig
eval $setvar
$rm -f try*
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_keepsig.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: startperl.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:25:06  ram
?RCS: patch61: warn them if the #! line is too long for their OS
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:startperl: cat rm sharpbang perlpath d_portable Myread
?MAKE: -pick add $@ %<
?S:startperl:
?S: This variable contains the string to put on the front of a perl
?S: script to make sure (hopefully) that it runs with perl and not some
?S: shell. Of course, that
 leading line must be followed by the classical
?S: perl idiom:
?S:  eval 'exec perl -S $0 ${1+"$@"}'
?S:   if $running_under_some_shell;
?S: to guarantee perl startup should the shell execute the script. Note
?S: that this magic incantation is not understood by csh.
?S:.
?C:STARTPERL:
?C: This symbol is the string that should be put on the front of a
?C: perl script to make sure (hopefully) that it runs with perl and
?C: not under some shell. That line should be followed by the classical
?C: invocation magic:
?C:  eval 'exec perl -S $0 ${1+"$@"}'
?C:   if $running_under_some_shell;
?C: to guarantee perl startup should the shell execute the script at first.
?C:.
?H:#define STARTPERL "$startperl"
?H:.
?T:pdflt
?F:!xtry
: figure out how to guarantee perl startup
case "$sharpbang" in
*!)
?X:
?X: Make sure the #!$perlpath magic incantation indeed works on this
?X: system... It might not if the length of the #! hook is greater
?X: than some hardwired kernel limit. -- RAM, 15/03/96
?X:
 $cat
 >xtry <<EOP
#!$perlpath
system("exit 0");
EOP
 chmod a+x xtry
 if ./xtry >/dev/null 2>&1; then
  $cat <<EOH

I can use the #! construct to start perl on your system. This will make
startup of perl scripts faster, but may cause problems if you want to share
those scripts and perl is not in a standard place (/usr/bin/perl) on all your
platforms. The alternative is to force a shell by starting the script with a
single ':' character.
```

```
EOH
  pdflt=y
 else
  $cat <<EOH

I could use the #! construct to start perl on your system, but using
   #!$perlpath
would be too long for your kernel to grok. Indeed, most systems do
limit the size of the leading #! string to 32 characters.

EOH
  pdflt=n
 fi
 $rm -f xtry
 case "$startperl" in
 *!*) dflt=y;;
 ") case "$d_portable" in
  "$define") dflt=n;;
  *) dflt=$pdflt;;
  esac;;
 *) dflt=n;;
 esac
 rp='Shall I use #! to start up perl?'
 . ./myread
 case "$ans" in
 y*|Y*) startperl="#!$perlpath";;
 *) startperl=": # use perl";;
 esac;;
*) startperl=":
 # use perl";;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/startperl.U
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```
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?RCS:
?MAKE:d_getaddrinfo: Inlibc
?MAKE: -pick add $@ %<
?S:d_getaddrinfo:
```

```
?S: This variable conditionally defines the HAS_GETADDRINFO symbol,
?S: which indicates to the C program that the getaddrinfo() function
?S: is available.
?S:.
?C:HAS_GETADDRINFO:
?C: This symbol, if defined, indicates that the getaddrinfo() function
?C: is available for use.
?C:.
?H:#$d_getaddrinfo HAS_GETADDRINFO  /**/
?H:.
?LINT:set d_getaddrinfo
: see if getaddrinfo exists
set getaddrinfo d_getaddrinfo
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getaddrinfo.U
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```
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?RCS:
?MAKE:d_nexttoward: Inlibc
?MAKE: -pick add $@ %<
?S:d_nexttoward:
?S: This variable conditionally defines HAS_NEXTTOWARD if nexttoward()
?S: is available to return the next machine representable long double from
?S: x in direction y.
?S:.
?C:HAS_NEXTTOWARD:
?C: This symbol, if defined, indicates that the nexttoward routine is
?C: available to return the next machine representable long double from
?C: x in direction y.
?C:.
?H:#$d_nexttoward HAS_NEXTTOWARD  /**/
?H:.
?LINT:set d_nexttoward
: see if nexttoward exists
set nexttoward d_nexttoward
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_nexttoward.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_memory.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_memory.U,v $
?RCS: Revision 3.0.1.3  1994/06/20  07:01:55  ram
?RCS: patch30: cosmetic changes
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:23:56  ram
?RCS: patch27: modified to avoid spurious Whoa warnings (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:02:25  ram
?RCS: patch23: avoid conflicts with <string.h>
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:22  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_memory: Inhdr strings cppstdin
 cppflags cppminus contains rm Setvar
?MAKE: -pick add $@ %<
?S:i_memory:
?S: This variable conditionally defines the I_MEMORY symbol, and indicates
?S: whether a C program should include <memory.h>.
?S:.
?C:I_MEMORY:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <memory.h>.
?C:.
?H:#$i_memory I_MEMORY  /**/
?H:.
?LINT:set i_memory
?X:
?X: Unfortunately, the definitions of memory functions sometimes
?X: conflict with those in <string.h>.  We'll assume that if
?X: <string.h> contains memcpy, then we don't need memory.h
?X:
: see if memory.h is available.
val=''
set memory.h val
eval $inhdr

: See if it conflicts with string.h
case "$val" in
```

```
$define)
 case "$strings" in
 ") ;;
 *)
  $cppstdin $cppflags $cppminus < $strings > mem.h
  if $contains 'memcpy' mem.h >/dev/null 2>&1; then
   echo " "
   echo "We won't be including <memory.h>."
   val="$undef"
  fi
  $rm -f mem.h
  ;;
 esac
esac
set i_memory
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_memory.U
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```
?RCS: $Id: d_setpgrp2.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setpgrp2.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:10  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setpgrp2: Inlibc
?MAKE: -pick add $@ %<
?S:d_setpgrp2:
?S: This variable conditionally defines the HAS_SETPGRP2 symbol, which
?S: indicates to the C program that the setpgrp2() (as in DG/UX) routine
?S: is available to set the current process group.
?S:.
?C:HAS_SETPGRP2 (SETPGRP2):
?C: This symbol, if defined, indicates that the
 setpgrp2() (as in DG/UX)
?C: routine is available to set the current process group.
?C:.
```

```
?H:#$d_setpgrp2 HAS_SETPGRP2  /**/
?H:.
?LINT:set d_setpgrp2
: see if setpgrp2 exists
set setpgrp2 d_setpgrp2
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setpgrp2.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_eaccess: Inlibc
?MAKE: -pick add $@ %<
?S:d_eaccess:
?S: This variable conditionally defines the HAS_EACCESS symbol, which
?S: indicates to the C program that the eaccess() routine is available.
?S:.
?C:HAS_EACCESS :
?C: This symbol, if defined, indicates that the eaccess routine is
?C: available to do extended access checks.
?C:.
?H:#$d_eaccess HAS_EACCESS  /**/
?H:.
?LINT:set d_eaccess
: see if eaccess exists
set eaccess d_eaccess
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/acl/d_eaccess.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: MailList.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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```

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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: MailList.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:01:49  ram
?RCS: patch16: created
?RCS:
?RCS:
?X:
?X: This unit offers the user the option of subscribing to the mailing
?X: list. To force inclusion of this unit, you must add it's name to the
?X: dependancies on the MAKE line in your private copy of End.U.
?X: The address of the mailing list server must be set via a "list_request=..."
?X:
 entry in the .package file. This is usually done by running packinit and
?X: answering the proper questions.
?X:
?MAKE:MailList: cat mailer package Myread cf_name cf_email
?MAKE: -pick wipe $@ %<
?T:list_request list_sub list_unsub list_name
?X:
?X: The cf_name dependency is used through list_sub when the mailing list
?X: manager happens to be listserv, whereas cf_email is used whith majordomo
?X: or when the mailing list request address is scanned by a human. Since
?X: they do not appear within the unit itself, we need a lint hint.
?X:
?LINT:use cf_name cf_email
: offer to join the mailing list
list_request='<$list_request>'
list_sub="<$list_sub>"
list_unsub="<$list_unsub>"
list_name="<$list_name>"
$cat <<EOM

There is a mailing list for discussion about $package and related issues.
This is the preferred place to ask questions about the program and discuss
modifications and additions with the author and other users.  If you are able
to send mail to the Internet, you
 are encouraged to subscribe.  You need only
ever subscribe once, and you can unsubscribe automatically at any time in the
future.  If you have already subscribed and you wish to unsubscribe now, you
may do so by answering "unsubscribe".  Answer "subscribe" to subscribe to the
list.

EOM
rp="Subscribe to or unsubscribe from the $list_name mailing list?"
```

```
dflt=neither
. ./myread
case "$ans" in
[sS]*) $cat <<EOM

You will be sent a message from the list server to let you know when your
subscription has been successful and telling you how to submit articles and
how to unsubscribe again when necessary. You may also unsubscribe by running
this script again and asking it to do so for you.

EOM
 echo "Sending mail to subscribe you to the $list_name list..." >&4
 $mailer $list_request <<EOM >/dev/null 2>&1
Precedence: junk
To: $list_request

$list_sub
EOM
 ;;
[uU]*) echo "Sending mail to unsubscribe you from the $list_name list..." >&4
 $mailer $list_request <<EOM >/dev/null 2>&1
Precedence: junk
To:
 $list_request

$list_unsub
EOM
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/MailList.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sanemcmp.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:41:19  ram
?RCS: patch61: created
```

```
?RCS:
?RCS:
?MAKE:d_sanemcmp: cat d_memcmp +cc +optimize +ccflags +libs +ldflags rm \
 i_memory i_stdlib i_string i_unistd Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_sanemcmp:
?S: This variable conditionally defines the HAS_SANE_MEMCMP symbol if
?S: the memcpy() routine is available and can be used to compare relative
?S: magnitudes of chars with their high bits set.
?S:.
?C:HAS_SANE_MEMCMP:
?C: This symbol,
 if defined, indicates that the memcmp routine is available
?C: and can be used to compare relative magnitudes of chars with their high
?C: bits set.  If it is not defined, roll your own version.
?C:.
?H:#$d_sanemcmp HAS_SANE_MEMCMP /**/
?H:.
?F:!sanemcmp
?LINT: set d_sanemcmp
: can memcmp be trusted to compare relative magnitude?
?X: assume the worst
val="$undef"
case "$d_memcmp" in
"$define")
 echo " "
 echo \
   "Checking to see if your memcmp() can compare relative magnitude..." >&4
 $cat >foo.c <<EOCP
#$i_memory I_MEMORY
#$i_stdlib I_STDLIB
#$i_string I_STRING
#$i_unistd I_UNISTD
EOCP
 $cat >>foo.c <<'EOCP'
#include <stdio.h>
#ifdef I_MEMORY
#  include <memory.h>
#endif
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#ifdef I_STRING
#  include <string.h>
#else
#  include <strings.h>
#endif
#ifdef I_UNISTD
```

```
#  include <unistd.h>  /* Needed for NetBSD */
#endif
int main()
{
char a = -1;
char b = 0;
if ((a < b) && memcmp(&a, &b, 1) < 0)
 exit(1);
exit(0);
}
EOCP
 if $cc $optimize $ccflags
 $ldflags \
      -o sanemcmp foo.c $libs >/dev/null 2>&1; then
  if ./sanemcmp 2>/dev/null; then
   echo "Yes, it can."
   val="$define"
  else
   echo "No, it can't (it uses signed chars)."
  fi
 else
  echo "(I can't compile the test program, so we'll assume not...)"
 fi
 ;;
esac
$rm -f foo.* sanemcmp core
set d_sanemcmp
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sanemcmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_shmdt.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_shmdt.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:d_shmdt: Inlibc
?MAKE: -pick add $@ %<
?S:d_shmdt:
?S: This variable conditionally defines the HAS_SHMDT symbol, which
?S: indicates to the C program that the shmdt() routine is available.
?S:.
?C:HAS_SHMDT:
?C: This symbol, if defined, indicates that the shmdt() routine is
?C: available to detach a shared memory segment from the process
 space.
?C:.
?H:#$d_shmdt HAS_SHMDT  /**/
?H:.
?LINT:set d_shmdt
: see if shmdt exists
set shmdt d_shmdt
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_shmdt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_stdlib.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_stdlib.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_stdlib: Inhdr
?MAKE: -pick add $@ %<
?S:i_stdlib:
?S: This variable conditionally defines the I_STDLIB symbol, which
?S: indicates to the C program that <stdlib.h> exists and should
?S: be included.
?S:.
?C:I_STDLIB:
?C: This symbol, if defined, indicates that <stdlib.h> exists and should
?C: be included.
?C:.
```

```
?H:#$i_stdlib I_STDLIB  /**/
?H:.
?LINT:set
 i_stdlib
: see if stdlib is available
set stdlib.h i_stdlib
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_stdlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2017, Karl Williamson
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_mbrtowc: Inlibc
?MAKE: -pick add $@ %<
?S:d_mbrtowc:
?S: This variable conditionally defines the HAS_MBRTOWC symbol if the
?S: mbrtowc() routine is available to be used to convert a multi-byte
?S: character into a wide character.
?S:.
?C:HAS_MBRTOWC:
?C: This symbol, if defined, indicates that the mbrtowc routine is
?C: available to convert a multi-byte character into a wide character.
?C:.
?H:#$d_mbrtowc HAS_MBRTOWC /**/
?H:.
?LINT: set d_mbrtowc
: see if mbrtowc exists
set mbrtowc d_mbrtowc
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_mbrtowc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_readdir_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_readdir_r readdir_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_dirent extern_C
?MAKE: -pick add $@ %<
?S:d_readdir_r:
?S: This variable conditionally defines the HAS_READDIR_R symbol,
?S: which indicates to the C program that the readdir_r()
?S: routine is available.
?S:.
?S:readdir_r_proto:
?S: This variable encodes the prototype of readdir_r.
?S: It is zero if d_readdir_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_readdir_r
?S: is defined.
?S:.
?C:HAS_READDIR_R:
?C: This symbol, if defined, indicates that the readdir_r routine
?C: is available to readdir re-entrantly.
?C:.
?C:READDIR_R_PROTO:
?C: This
 symbol encodes the prototype of readdir_r.
?C: It is zero if d_readdir_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_readdir_r
?C: is defined.
?C:.
?H:#$d_readdir_r HAS_READDIR_R /**/
?H:#define READDIR_R_PROTO $readdir_r_proto /**/
?H:.
?T:try hdrs d_readdir_r_proto
: see if readdir_r exists
set readdir_r d_readdir_r
eval $inlibc
case "$d_readdir_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_dirent dirent.h"
 case "$d_readdir_r_proto:$usethreads" in
 ":define") d_readdir_r_proto=define
  set d_readdir_r_proto readdir_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_readdir_r_proto" in
 define)
 case "$readdir_r_proto" in
```

```
"|0) try='int readdir_r(DIR*, struct dirent*, struct dirent**);'
./protochk "$extern_C $try" $hdrs && readdir_r_proto=I_TSR ;;
esac
case "$readdir_r_proto" in
"|0) try='int readdir_r(DIR*, struct dirent*);'
./protochk "$extern_C $try" $hdrs && readdir_r_proto=I_TS
;;
esac
case "$readdir_r_proto" in
"|0) d_readdir_r=undef
 readdir_r_proto=0
 echo "Disabling readdir_r, cannot determine prototype." >&4 ;;
* ) case "$readdir_r_proto" in
 REENTRANT_PROTO*) ;;
 *) readdir_r_proto="REENTRANT_PROTO_$readdir_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "readdir_r has no prototype, not using it." >&4 ;;
 esac
 d_readdir_r=undef
 readdir_r_proto=0
 ;;
esac
;;
*) readdir_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_readdir_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_keepsig.U,v $
?RCS: Revision 3.0.1.4  1995/07/25  13:57:56  ram
```

```
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:26:25  ram
?RCS: patch45: protected "sh -c" within backquotes for Linux and SGI
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:13:59  ram
?RCS: patch36: call ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.1  1993/10/16  13:48:47  ram
?RCS: patch12: comment for SIGNALS_KEPT was the other way round
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:06:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_keepsig: cat Compile rm Guess contains echo n c Setvar run
?MAKE: -pick add $@ %<
?S:d_keepsig:
?S: This variable contains the eventual value of the SIGNALS_KEPT symbol,
?S: which indicates to the C program if signal handlers need not reinstated
?S: after receipt of a signal.
?S:.
?C:SIGNALS_KEPT (PERSISTENT_SIGNAL):
?C: This symbol is defined if signal handlers needn't be reinstated after
?C: receipt of a signal.
?C:.
?H:#$d_keepsig SIGNALS_KEPT /**/
?H:.
?F:!try !try.out
?LINT:set d_keepsig
: see if signals are kept
val="$undef";
echo " "
echo "Checking to see if signal handlers stick around..." >&4
$cat >try.c <<'EOCP'
foo() {}

int main()
{
 signal(2, foo);
 kill(getpid(), 2);
 kill(getpid(), 2);
 printf("abc\n");
}
EOCP
set try
if eval $compile; then
?X: On AIX a single ./try will not work (with ksh)
```

```
?X: Backquotes required on Linux and SGI (prevents "ambiguous output redirect")
?X:
 (reported by Xavier LeVourch <xavierl@eiffel.com>)
 echo `sh -c $run ./try >try.out 2>/dev/null` >/dev/null
 if $contains abc try.out >/dev/null 2>&1; then
  echo "Yes, they do."
  val="$define";
 else
  echo "No, they don't."
 fi
else
 $echo $n "(I can't seem to compile the test program. Assuming $c"
 if ./bsd; then
  echo "they do.)"
  val="$define"
 else
  echo "they don't.)"
 fi
fi
set d_keepsig
eval $setvar
$rm -f try*
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_keepsig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_nice.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_nice.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:09:48  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_nice: Inlibc
?MAKE: -pick add $@ %<
?S:d_nice:
?S: This variable conditionally defines the HAS_NICE symbol, which
```

```
?S: indicates to the C program that the nice() routine is available.
?S:.
?C:HAS_NICE :
?C: This symbol, if defined, indicates that the nice routine is
?C: available.
?C:.
?H:#$d_nice
 HAS_NICE  /**/
?H:.
?LINT:set d_nice
: see if nice exists
set nice d_nice
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_nice.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_aintl: Inlibc
?MAKE: -pick add $@ %<
?S:d_aintl:
?S: This variable conditionally defines the HAS_AINTL symbol, which
?S: indicates to the C program that the aintl() routine is available.
?S: If copysignl is also present we can emulate modfl.
?S:.
?C:HAS_AINTL:
?C: This symbol, if defined, indicates that the aintl routine is
?C: available.  If copysignl is also present we can emulate modfl.
?C:.
?H:#$d_aintl HAS_AINTL  /**/
?H:.
?LINT:set d_aintl
: see if aintl exists
set aintl d_aintl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_aintl.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endgrent.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_endgrent.U,v $
?RCS:
?MAKE:d_endgrent: Inlibc
?MAKE: -pick add $@ %<
?S:d_endgrent:
?S: This variable conditionally defines the HAS_ENDGRENT symbol, which
?S: indicates to the C program that the endgrent() routine is available
?S: for sequential access of the group database.
?S:.
?C:HAS_ENDGRENT:
?C: This symbol, if defined, indicates that the getgrent routine is
?C: available for finalizing sequential access of the group database.
?C:.
?H:#$d_endgrent HAS_ENDGRENT  /**/
?H:.
?LINT:set d_endgrent
: see if endgrent exists
set endgrent d_endgrent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_endgrent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: rootid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: rootid.U,v $
?RCS: Revision 3.0.1.1  1995/01/30  14:45:36  ram
?RCS: patch49: now only prints a single empty line when outputting something
?RCS:
```

```
?RCS: Revision 3.0  1993/08/18  12:09:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:rootid: sed
?MAKE: -pick add $@ %<
?S:rootid:
?S: This variable contains the eventual value of the ROOTID symbol,
?S: which is the uid of root.
?S:.
?C:ROOTID:
?C: This symbol contains the uid of root, normally
 0.
?C:.
?H:#define ROOTID $rootid  /**/
?H:.
: determine root id
rootid=`$sed -e "/^root:/{s/^[^:]*:[^:]*:\([^:]*\).*'''$'''/\1/" -e "q" -e "}" -e "d" </etc/passwd`
case "$rootid" in
") rootid=0 ;;
*) echo " "; echo "Root uid = $rootid" >&4 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/rootid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_scalbn: Inlibc
?MAKE: -pick add $@ %<
?S:d_scalbn:
?S: This variable conditionally defines the HAS_SCALBN symbol, which
?S: indicates to the C program that the scalbn() routine is available.
?S:.
?C:HAS_SCALBN:
?C: This symbol, if defined, indicates that the scalbn routine is
?C: available to multiply floating-point number by integral power
?C: of radix.
?C:.
?H:#$d_scalbn HAS_SCALBN  /**/
?H:.
?LINT:set d_scalbn
: see if scalbn exists
set scalbn d_scalbn
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_scalbn.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_nolnbuf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_nolnbuf.U,v $
?RCS: Revision 3.0.1.1  1994/05/06  14:46:07  ram
?RCS: patch23: avoid looping in the "see that again?" prompt (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:43  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_nolnbuf: test +cc cat rm Setvar Myread
?MAKE: -pick add $@ %<
?S:d_nolnbuf:
?S: This variable conditionally defines the NOLINEBUF symbol, which
?S: indicates to the C program that stdout is not buffered, so that
?S: the
 program can call setbuf() or setlinebuf() for efficiency.
?S:.
?C:NOLINEBUF:
?C: This symbol, if defined, indicates that stdout is not buffered, so that
?C: the program can call setbuf() or setlinebuf() for efficiency.
?C:.
?H:#$d_nolnbuf NOLINEBUF /**/
?H:.
?T:xxx
?F:!blurfl
?LINT:set d_nolnbuf
: check for buffering of stdout
echo " "
case "$d_nolnbuf" in
")
 $cat <<'EOT' >blurfl.c
#include <stdio.h>
int main()
{
 int i;
```

```
 for (i = 0; i < 5; i++) {
  putchar(i+'a');
  sleep(1);
 }
 putchar('\n');
}
EOT
 $cc -o blurfl blurfl.c >/dev/null 2>&1;
 $rm -f blurfl.c
 $cat >&4 <<'EOM'
Checking for buffering of stdout to terminal.

Observe the following characters as they are printed out, to see whether they
print out all at once, or with a 1 second pause between each of them.  If they
print out one by one, you don't have buffering.  If they print together (after
about a 5 second pause), you do have buffering.

EOM
 dflt='Type return to start printing the test characters'
 rp="
 .
 ./myread
 xxx=y
 while $test "$xxx" = 'y'; do
  ./blurfl 1>&4
  dflt=n
  rp='Would you like to see that again?'
  . ./myread
  case "$ans" in
  [yY]*) xxx="y";;
  *) xxx="n";;
  esac
 done
 dflt=y
 rp="Do you have buffering (printed all at once)?"
 . ./myread
 case "$ans" in
 n*) val="$define";;
 *)  val="$undef";;
 esac
 ;;
*)
 case "$d_nolnbuf" in
 "$define") dflt=n;;
 *) dflt=y;;
 esac
 rp="Do you have buffering on stdout to terminals?"
```

```
 . ./myread
 case "$ans" in
 n*) val="$define";;
 *)  val="$undef";;
 esac
 ;;
esac
set d_nolnbuf
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_nolnbuf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_syswait.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_syswait.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit looks wether <sys/wait.h> is available or not
?X:
?MAKE:i_syswait: Inhdr
?MAKE: -pick add $@ %<
?S:i_syswait:
?S: This variable conditionally defines I_SYS_WAIT, which indicates
?S: to the C program that it should include <sys/wait.h>.
?S:.
?C:I_SYS_WAIT (I_SYSWAIT):
?C: This symbol, if defined, indicates to the C program
 that it should
?C: include <sys/wait.h>.
?C:.
?H:#$i_syswait I_SYS_WAIT /**/
?H:.
?LINT:set i_syswait
: see if this is a syswait system
set sys/wait.h i_syswait
```

```
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_syswait.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysresrc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysresrc.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:34  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Look wether <sys/resource.h> needs to be included
?X:
?MAKE:i_sysresrc: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysresrc:
?S: This variable conditionally defines the I_SYS_RESOURCE symbol,
?S: and indicates whether a C program should include <sys/resource.h>.
?S:.
?C:I_SYS_RESOURCE (I_SYSRESOURCE):
?C: This symbol, if defined, indicates
 to the C program that it should
?C: include <sys/resource.h>.
?C:.
?H:#$i_sysresrc I_SYS_RESOURCE  /**/
?H:.
?LINT:set i_sysresrc
: see if sys/resource.h has to be included
set sys/resource.h i_sysresrc
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sysresrc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_bzero.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_bzero.U,v $
?RCS: Revision 3.0.1.2  1993/10/16  13:48:15  ram
?RCS: patch12: added magic support for bzero()
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:01:33  ram
?RCS: patch10: now only defines HAS_BZERO, no macro remap on memset (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_bzero: Inlibc
?MAKE: -pick add $@ %<
?S:d_bzero:
?S: This variable conditionally defines the HAS_BZERO
 symbol if
?S: the bzero() routine is available to set memory to 0.
?S:.
?C:HAS_BZERO:
?C: This symbol is defined if the bzero() routine is available to
?C: set a memory block to 0.
?C:.
?H:#$d_bzero HAS_BZERO /**/
?H:.
?M:bzero: HAS_BZERO
?M:#ifndef HAS_BZERO
?M:#ifndef bzero
?M:#define bzero(s,l) memset((s),0,(l))
?M:#endif
?M:#endif
?M:.
?LINT:set d_bzero
: see if bzero exists
set bzero d_bzero
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_bzero.U

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```
?RCS: $Id: yacc.U,v 3.0.1.1 1994/05/13 15:28:48 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: yacc.U,v $
?RCS: Revision 3.0.1.1  1994/05/13  15:28:48  ram
?RCS: patch27: added byacc as another alternative (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:10:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:yacc yaccflags: Guess Myread Oldconfig byacc bison cat test _exe
?MAKE: -pick add $@ %<
?S:yacc:
?S: This variable holds the name of the compiler compiler we
?S: want to use in the Makefile. It can be yacc, byacc, or bison -y.
?S:.
?S:yaccflags:
?S: This
 variable contains any additional yacc flags desired by the
?S: user.  It is up to the Makefile to use this.
?S:.
?T:comp
: determine compiler compiler
case "$yacc" in
")
 dflt=yacc;;
*)
 dflt="$yacc";;
esac
echo " "
comp='yacc'
if $test -f "$byacc$_exe"; then
 dflt="$byacc"
 comp="byacc or $comp"
fi
if $test -f "$bison$_exe"; then
 comp="$comp or bison -y"
fi
rp="Which compiler compiler ($comp) shall I use?"
```

```
. ./myread
yacc="$ans"
case "$yacc" in
*bis*)
 case "$yacc" in
 *-y*) ;;
 *)
  yacc="$yacc -y"
  echo "(Adding -y option to bison to get yacc-compatible behavior.)"
  ;;
 esac
 ;;
esac

@if yaccflags
: see if we need extra yacc flags
dflt="$yaccflags"
case "$dflt" in
") dflt=none;;
esac
$cat <<EOH

Your yacc program may need extra flags to normally process the parser sources.
Do NOT specify any -d or -v flags here, since those are explicitly known
by the various Makefiles. However, if your machine has strange/undocumented
options (like -Sr# on SCO to specify the
 maximum number of grammar rules), then
please add them here.  To use no flags, specify the word "none".

EOH
rp="Any additional yacc flags?"
. ./myread
case "$ans" in
none) yaccflags=";;
*) yaccflags="$ans";;
esac

@end
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/yacc.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: i_varhdr.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_varhdr.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:54:42  ram
?RCS: patch61: varargs script now starts with leading "startsh"
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:21:02  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/13  15:26:05  ram
?RCS: patch27: this unit now supersedes old i_stdarg.U and i_varargs.U
?RCS: patch27: modified to avoid spurious Whoa warnings (ADO)
?RCS:
?RCS: Revision 3.0
  1993/08/18  12:08:49  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_stdarg i_varargs i_varhdr: cat +cc +ccflags rm test Setvar \
 Findhdr startsh _o
?MAKE: -pick add $@ %<
?S:i_stdarg:
?S: This variable conditionally defines the I_STDARG symbol, which
?S: indicates to the C program that <stdarg.h> exists and should
?S: be included.
?S:.
?S:i_varargs:
?S: This variable conditionally defines I_VARARGS, which indicates
?S: to the C program that it should include <varargs.h>.
?S:.
?S:i_varhdr:
?S: Contains the name of the header to be included to get va_dcl definition.
?S: Typically one of varargs.h or stdarg.h.
?S:.
?C:I_STDARG:
?C: This symbol, if defined, indicates that <stdarg.h> exists and should
?C: be included.
?C:.
?C:I_VARARGS:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <varargs.h>.
?C:.
?H:#$i_stdarg I_STDARG  /**/
?H:#$i_varargs I_VARARGS /**/
?H:.
```

```
?W:%<:va_dcl
?F:!varargs
?T:valstd
?LINT:set i_stdarg i_varargs
?X:
?X:
 Don't use setvar because the varargs test below might override these.
?X: Actually, the messages here are just informative. We don't wish to set
?X: i_varargs or i_stdarg to their final value before knowing which of the
?X: two we'll include.
?X:
: see if stdarg is available
echo " "
if $test `./findhdr stdarg.h`; then
 echo "<stdarg.h> found." >&4
 valstd="$define"
else
 echo "<stdarg.h> NOT found." >&4
 valstd="$undef"
fi

: see if varargs is available
echo " "
if $test `./findhdr varargs.h`; then
 echo "<varargs.h> found." >&4
else
 echo "<varargs.h> NOT found, but that's ok (I hope)." >&4
fi

?X:
?X: if you have stdarg.h, you need to support prototypes to actually use it;
?X: but if stdarg.h exists and the compiler doesn't support prototypes (for some
?X: bizarre reason), we'll fall back to varargs.h anyway so it's not so bad.
?X:
: set up the varargs testing programs
$cat > varargs.c <<EOP
#ifdef I_STDARG
#include <stdarg.h>
#endif
#ifdef I_VARARGS
#include <varargs.h>
#endif

#ifdef
 I_STDARG
int f(char *p, ...)
#else
int f(va_alist)
```

```
va_dcl
#endif
{
 va_list ap;
#ifndef I_STDARG
 char *p;
#endif
#ifdef I_STDARG
 va_start(ap,p);
#else
 va_start(ap);
 p = va_arg(ap, char *);
#endif
 va_end(ap);
 return 0;
}
EOP
$cat > varargs <<EOP
$startsh
if $cc -c $ccflags -D\$1 varargs.c >/dev/null 2>&1; then
 echo "true"
else
 echo "false"
fi
$rm -f varargs$_o
EOP
chmod +x varargs

: now check which varargs header should be included
echo " "
i_varhdr="
val="
case "$valstd" in
"$define")
 if `./varargs I_STDARG`; then
  val='stdarg.h'
 elif `./varargs I_VARARGS`; then
  val='varargs.h'
 fi
 ;;
*)
 if `./varargs I_VARARGS`; then
  val='varargs.h'
 fi
 ;;
esac
case "$val" in
")
```

```
 echo " "
 echo "*** WHOA THERE!!! ***" >&4
 echo "    Your C compiler \"$cc\" doesn't seem to support stdarg or varargs!" >&4
 case "$knowitall" in
 ")
 echo "    I'm giving up; maybe you can try again with a different compiler?" >&4
  exit 1
  ;;
 esac
echo "I could not find the definition for va_dcl...
 You have problems..." >&4
 val="$undef"; set i_stdarg; eval $setvar
 val="$undef"; set i_varargs; eval $setvar
 ;;
*)
 set i_varhdr
 eval $setvar
 case "$i_varhdr" in
 stdarg.h)
  val="$define"; set i_stdarg; eval $setvar
  val="$undef"; set i_varargs; eval $setvar
  ;;
 varargs.h)
  val="$undef"; set i_stdarg; eval $setvar
  val="$define"; set i_varargs; eval $setvar
  ;;
 esac
 echo "We'll include <$i_varhdr> to get va_dcl definition." >&4;;
esac
$rm -f varargs*
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_varhdr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setpgrp.U,v 3.0.1.3 1997/02/28 15:44:16 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_setpgrp.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:44:16  ram
```

```
?RCS: patch61: obsoleted USE_BSDGRP in favor of USE_BSD_SETPGRP
?RCS: patch61: another unit now also defines a USE_BSD_GETPGRP
?RCS: patch61: fallback for test program failure improved
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  13:59:30  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:15:37  ram
?RCS: patch36: added
 'ldflags' to the test compile line (ADO)
?RCS: patch36: call ./usg explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setpgrp d_bsdsetpgrp: cat rm_try +cc +libs +ccflags \
 +ldflags Inlibc Guess Setvar i_unistd i_stdlib run
?MAKE: -pick add $@ %<
?S:d_setpgrp:
?S: This variable conditionally defines HAS_SETPGRP if setpgrp() is
?S: available to set the current process group.
?S:.
?S:d_bsdsetpgrp (d_bsdpgrp):
?S: This variable conditionally defines USE_BSD_SETPGRP if
?S: setpgrp needs two arguments whereas USG one needs none.
?S: See also d_setpgid for a POSIX interface.
?S:.
?C:HAS_SETPGRP (SETPGRP):
?C: This symbol, if defined, indicates that the setpgrp routine is
?C: available to set the current process group.
?C:.
?C:USE_BSD_SETPGRP (USE_BSDPGRP BSDPGRP):
?C: This symbol, if defined, indicates that setpgrp needs two
?C: arguments whereas USG one needs none.  See also HAS_SETPGID
?C: for
 a POSIX interface.
?C:.
?H:#$d_setpgrp HAS_SETPGRP  /**/
?H:#$d_bsdsetpgrp USE_BSD_SETPGRP /**/
?H:.
?T:xxx
?F:!try
?LINT:set d_setpgrp d_bsdsetpgrp
: see if setpgrp exists
set setpgrp d_setpgrp
eval $inlibc

@if USE_BSD_SETPGRP || d_bsdsetpgrp
```

```
case "$d_setpgrp" in
"$define")
 echo " "
 echo "Checking to see which flavor of setpgrp is in use..."
 $cat >try.c <<EOP
#include <stdio.h>
#$i_unistd I_UNISTD
#include <sys/types.h>
#ifdef I_UNISTD
#  include <unistd.h>
#endif
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
{
 if (getuid() == 0) {
  printf("(I see you are running Configure as super-user...)\n");
  setuid(1);
 }
#ifdef TRY_BSD_PGRP
 if (-1 == setpgrp(1, 1))
  exit(0);
#else
 if (setpgrp() != -1)
  exit(0);
#endif
 exit(1);
}
EOP
 if $cc -o try -DTRY_BSD_PGRP $ccflags $ldflags try.c $libs >/dev/null 2>&1 && $run ./try; then
  echo 'You have to use setpgrp(pid,pgrp) instead of setpgrp().' >&4
  val="$define"
 elif $cc -o try $ccflags $ldflags try.c $libs
 >/dev/null 2>&1 && $run ./try; then
  echo 'You have to use setpgrp() instead of setpgrp(pid,pgrp).' >&4
  val="$undef"
 else
  echo "(I can't seem to compile and run the test program.)"
  if ./usg; then
   xxx="a USG one, i.e. you use setpgrp()."
  else
   # SVR4 systems can appear rather BSD-ish.
   case "$i_unistd" in
   $undef)
    xxx="a BSD one, i.e. you use setpgrp(pid,pgrp)."
    val="$define"
```

```
    ;;
   $define)
    xxx="probably a USG one, i.e. you use setpgrp()."
    val="$undef"
    ;;
   esac
  fi
  echo "Assuming your setpgrp is $xxx" >&4
 fi
 ;;
*) val="$undef";;
esac
set d_bsdsetpgrp
eval $setvar
$rm_try
@end
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_setpgrp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_memalign.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memalign.U,v $
?RCS:
?MAKE:d_memalign: Inlibc
?MAKE: -pick add $@ %<
?S:d_memalign:
?S: This variable conditionally defines the HAS_MEMALIGN symbol, which
?S: indicates to the C program that the memalign() routine is available.
?S:.
?C:HAS_MEMALIGN :
?C: This symbol, if defined, indicates that the memalign routine is
?C: available to allocate aligned memory.
?C:.
?H:#$d_memalign HAS_MEMALIGN  /**/
?H:.
?LINT:set d_memalign
: see if memalign exists
```

```
set
 memalign d_memalign
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_memalign.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysmman.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:11:20  ram
?RCS: patch16: created
?RCS:
?X:
?X: Look wether <sys/mman.h> needs to be included.
?X:
?MAKE:i_sysmman: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysmman:
?S: This variable conditionally defines the I_SYS_MMAN symbol,
?S: and indicates whether a C program should include <sys/mman.h>.
?S:.
?C:I_SYS_MMAN:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/mman.h>.
?C:.
?H:#$i_sysmman I_SYS_MMAN  /**/
?H:.
?LINT:set
 i_sysmman
: see if sys/mman.h has to be included
set sys/mman.h i_sysmman
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sysmman.U

No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_statblks.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:29  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_statblks: contains Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_statblks:
?S: This variable conditionally defines USE_STAT_BLOCKS if this system
?S: has a stat structure declaring st_blksize and st_blocks.
?S:.
?C:USE_STAT_BLOCKS (STATBLOCKS):
?C: This symbol is defined if this system has a stat structure declaring
?C: st_blksize and st_blocks.
?C:.
?H:#$d_statblks USE_STAT_BLOCKS
  /**/
?H:.
?T:xxx
?LINT:set d_statblks
: see if stat knows about block sizes
echo " "
xxx=`./findhdr sys/stat.h`
if $contains 'st_blocks;' "$xxx" >/dev/null 2>&1 ; then
 if $contains 'st_blksize;' "$xxx" >/dev/null 2>&1 ; then
  echo "Your stat() knows about block sizes." >&4
  val="$define"
 else
  echo "Your stat() doesn't know about block sizes." >&4
  val="$undef"
 fi
else
 echo "Your stat() doesn't know about block sizes." >&4
 val="$undef"
fi
set d_statblks
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_statblks.U
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```
?RCS: $Id: d_setgrent.U,v $
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?RCS:
?RCS: $Log: d_setgrent.U,v $
?RCS:
?MAKE:d_setgrent: Inlibc
?MAKE: -pick add $@ %<
?S:d_setgrent:
?S: This variable conditionally defines the HAS_SETGRENT symbol, which
?S: indicates to the C program that the setgrent() routine is available
?S: for initializing sequential access to the group database.
?S:.
?C:HAS_SETGRENT:
?C: This symbol, if defined, indicates that the setgrent routine is
?C: available for initializing sequential access of the group database.
?C:.
?H:#$d_setgrent HAS_SETGRENT  /**/
?H:.
?LINT:set d_setgrent
: see if setgrent exists
set setgrent d_setgrent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_setgrent.U
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```
?RCS: $Id: d_getenv_thread.U,v 0RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getenv_preserves_other_thread: echo cat i_stdlib i_pthread run rm_try \
 Compile Setvar
?MAKE: -pick add $@ %<
?S:d_getenv_preserves_other_thread:
```

```
?S: This variable conditionally defines the GETENV_PRESERVES_OTHER_THREAD
?S: symbol, which indicates to the C program that the getenv() system call
?S: does not zap the static buffer in a different thread.
?S:.
?C:GETENV_PRESERVES_OTHER_THREAD:
?C: This symbol, if defined, indicates that the getenv system call doesn't
?C: zap the static buffer of getenv() in a different thread.
?C:
?C: The typical getenv() implementation will return a pointer to the proper
?C: position in **environ.  But some may instead copy them to
 a static
?C: buffer in getenv().  If there is a per-thread instance of that buffer,
?C: or the return points to **environ, then a many-reader/1-writer mutex
?C: will work; otherwise an exclusive locking mutex is required to prevent
?C: races.
?C:.
?H:#$d_getenv_preserves_other_thread GETENV_PRESERVES_OTHER_THREAD /**/
?H:.
?T:rc
?F:!try
?LINT:set d_getenv_preserves_other_thread
: check for getenv behavior
case "$d_getenv_preserves_other_thread" in
")
$echo "Checking to see if getenv() preserves a different thread's results" >&4
$cat >try.c <<EOCP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#include <stdio.h>
#include <string.h>
#$i_pthread I_PTHREAD
#ifdef I_PTHREAD
#  include <pthread.h>
#endif

void *
thread_start(void * arg)
{
   (void *) getenv("HOME");
}

int main() {
   char * main_buffer;
   char save_main_buffer[1000];
   pthread_t subthread;
   pthread_attr_t attr;
```

```
  main_buffer = getenv("PATH");

  /* If too large for our generous allowance, return
 we couldn't figure it
   * out. */
  if (strlen(main_buffer) >= sizeof(save_main_buffer)) {
      exit(2);
  }

  strcpy(save_main_buffer, main_buffer);

  if (pthread_attr_init(&attr) != 0) {
      exit(2);
  }

  if (pthread_create(&subthread, &attr, thread_start, NULL) != 0) {
      exit(2);
  }

  if (pthread_join(subthread, NULL) != 0) {
      exit(2);
  }

  exit(! strcmp(main_buffer, save_main_buffer) == 0);
}
EOCP
val=
set try
if eval $compile_ok; then
  $run ./try
  rc=$?
  case "$rc" in
 0) echo "getenv() didn't destroy another thread's buffer" >&4
   val=$define
   ;;
 1) echo "getenv() does destroy another thread's buffer" >&4
   val=$undef
   ;;
 *) echo "Couldn't determine if getenv() destroys another thread's return value (code=$rc); assuming it does" >&4
   val=$undef
   ;;
  esac
else
  echo "(I can't seem to compile the test program.)" >&4
  echo "Assuming that your C library's getenv destroys another thread's return
 value." >&4
  val=$undef
```

```
fi
set d_getenv_preserves_other_thread
eval $setvar
$rm_try
;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getenv_thread.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysvfs.U,v $
?RCS:
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?RCS:
?MAKE:i_sysvfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysvfs:
?S: This variable conditionally defines the I_SYSVFS symbol,
?S: and indicates whether a C program should include <sys/vfs.h>.
?S:.
?C:I_SYS_VFS:
?C: This symbol, if defined, indicates that <sys/vfs.h> exists and
?C: should be included.
?C:.
?H:#$i_sysvfs I_SYS_VFS  /**/
?H:.
?LINT:set i_sysvfs
: see if this is a sys/vfs.h system
set sys/vfs.h i_sysvfs
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysvfs.U
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```
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?RCS:
?MAKE:d_ilogb: Inlibc
?MAKE: -pick add $@ %<
?S:d_ilogb:
?S: This variable conditionally defines the HAS_ILOGB symbol, which
```

```
?S: indicates to the C program that the ilogb() routine is available
?S: for extracting the exponent of double x as a signed integer.
?S:.
?C:HAS_ILOGB:
?C: This symbol, if defined, indicates that the ilogb routine is
?C: available to get integer exponent of a floating-point value.
?C:.
?H:#$d_ilogb HAS_ILOGB  /**/
?H:.
?LINT:set d_ilogb
: see if ilogb exists
set ilogb d_ilogb
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_ilogb.U
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```
?RCS: $Id: perl5.U,v $
?RCS:
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?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: perl5.U,v $
?RCS:
?X:
?X: The purpose of this unit is to locate a previously installed
?X: version of perl5 suitable for running inc_version_list.U.
?X: We check for 5.005 and later because inc_version_list is
?X: irrelevant for earlier versions.
?X:
?MAKE:perl5: path_sep binexp test sed exe_ext
?MAKE: -pick add $@ %<
?Y:TOP
?S:perl5:
?S: This variable contains the full path (if any) to a previously
?S: installed perl5.005 or later suitable for running the script
?S: to determine inc_version_list.
?S:.
?T: tdir
: Find perl5.005 or later.
echo "Looking for a previously installed perl5.005 or later... "
case "$perl5" in
") for tdir in `echo "$binexp$path_sep$PATH" | $sed "s/$path_sep/
```

```
 /g"`; do
  : Check if this perl is recent and can load a simple module
  if $test -x $tdir/perl$exe_ext && $tdir/perl -Mless -e 'use 5.005;' >/dev/null 2>&1; then
   perl5=$tdir/perl
   break;
  elif $test -x $tdir/perl5$exe_ext && $tdir/perl5 -Mless -e 'use 5.005;' >/dev/null 2>&1; then
   perl5=$tdir/perl5
   break;
  fi
 done
 ;;
*) perl5="$perl5"
 ;;
esac
case "$perl5" in
") echo "None found.  That's ok.";;
*) echo "Using $perl5." ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/perl5.U
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```
?RCS: $Id$
?RCS:
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?RCS:
?MAKE:d_accessx: Inlibc
?MAKE: -pick add $@ %<
?S:d_accessx:
?S: This variable conditionally defines the HAS_ACCESSX symbol, which
?S: indicates to the C program that the accessx() routine is available.
?S:.
?C:HAS_ACCESSX :
?C: This symbol, if defined, indicates that the accessx routine is
?C: available to do extended access checks.
?C:.
?H:#$d_accessx HAS_ACCESSX  /**/
?H:.
?LINT:set d_accessx
: see if accessx exists
set accessx d_accessx
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/acl/d_accessx.U
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```
?RCS: $Id: d_flock.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_flock.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_flock: Inlibc
?MAKE: -pick add $@ %<
?S:d_flock:
?S: This variable conditionally defines HAS_FLOCK if flock() is
?S: available to do file locking.
?S:.
?C:HAS_FLOCK (FLOCK):
?C: This symbol, if defined, indicates that the flock routine is
?C: available to do file locking.
?C:.
?H:#$d_flock HAS_FLOCK  /**/
?H:.
?LINT:set d_flock
: see
 if flock exists
set flock d_flock
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_flock.U
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```
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?RCS:
?MAKE:d_round: Inlibc
?MAKE: -pick add $@ %<
?S:d_round:
```

```
?S: This variable conditionally defines the HAS_ROUND symbol, which
?S: indicates to the C program that the round() routine is available.
?S:.
?C:HAS_ROUND:
?C: This symbol, if defined, indicates that the round routine is
?C: available to round to nearest integer, away from zero.
?C:.
?H:#$d_round HAS_ROUND  /**/
?H:.
?LINT:set d_round
: see if round exists
set round d_round
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_round.U
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```
?RCS: $Id: d_readdir64_r.U,v 0RCS:
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?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_readdir64_r readdir64_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_dirent extern_C
?MAKE: -pick add $@ %<
?S:d_readdir64_r:
?S: This variable conditionally defines the HAS_READDIR64_R symbol,
?S: which indicates to the C program that the readdir64_r()
?S: routine is available.
?S:.
?S:readdir64_r_proto:
?S: This variable encodes the prototype of readdir64_r.
?S: It is zero if d_readdir64_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_readdir64_r
?S: is defined.
?S:.
?C:HAS_READDIR64_R:
?C: This symbol, if defined, indicates that the readdir64_r routine
?C: is
 available to readdir64 re-entrantly.
?C:.
?C:READDIR64_R_PROTO:
?C: This symbol encodes the prototype of readdir64_r.
```

```
?C: It is zero if d_readdir64_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_readdir64_r
?C: is defined.
?C:.
?H:#$d_readdir64_r HAS_READDIR64_R /**/
?H:#define READDIR64_R_PROTO $readdir64_r_proto /**/
?H:.
?T:try hdrs d_readdir64_r_proto
: see if readdir64_r exists
set readdir64_r d_readdir64_r
eval $inlibc
case "$d_readdir64_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_dirent dirent.h"
 case "$d_readdir64_r_proto:$usethreads" in
 ":define") d_readdir64_r_proto=define
  set d_readdir64_r_proto readdir64_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_readdir64_r_proto" in
 define)
 case "$readdir64_r_proto" in
 "|0) try='int readdir64_r(DIR*, struct dirent64*, struct dirent64**);'
 ./protochk "$extern_C $try" $hdrs && readdir64_r_proto=I_TSR ;;
 esac
 case "$readdir64_r_proto" in
 "|0) try='int readdir64_r(DIR*,
 struct dirent64*);'
 ./protochk "$extern_C $try" $hdrs && readdir64_r_proto=I_TS ;;
 esac
 case "$readdir64_r_proto" in
 "|0) d_readdir64_r=undef
  readdir64_r_proto=0
  echo "Disabling readdir64_r, cannot determine prototype." >&4 ;;
 * ) case "$readdir64_r_proto" in
  REENTRANT_PROTO*) ;;
  *) readdir64_r_proto="REENTRANT_PROTO_$readdir64_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "readdir64_r has no prototype, not using it." >&4 ;;
  esac
  d_readdir64_r=undef
  readdir64_r_proto=0
  ;;
```

```
 esac
 ;;
*) readdir64_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_readdir64_r.U
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```
?RCS: $Id: pidtype.U,v 3.0.1.1 1994/08/29 16:31:27 ram Exp $
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: pidtype.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:31:27  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:33  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:pidtype: Myread Typedef
?MAKE: -pick add $@ %<
?S:pidtype:
?S: This variable defines PIDTYPE to be something like pid_t, int,
?S: ushort, or whatever type is used to declare process ids in the kernel.
?S:.
?C:Pid_t (PIDTYPE):
?C: This
 symbol holds the type used to declare process ids in the kernel.
?C: It can be int, uint, pid_t, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Pid_t $pidtype  /* PID type */
?H:.
?LINT: set pidtype
: see what type pids are declared as in the kernel
rp="What is the type of process ids on this system?"
set pid_t pidtype int stdio.h sys/types.h
eval $typedef_ask
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/pidtype.U
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```
?RCS: $Id: vendorprefix.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorprefix.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:usevendorprefix vendorprefix vendorprefixexp +oldvendorprefix: \
 Getfile Loc Oldconfig cat prefix Myread
?MAKE: -pick add $@ %<
?S:usevendorprefix:
?S: This variable tells whether the vendorprefix
?S: and consequently other vendor* paths are in use.
?S:.
?S:vendorprefix:
?S: This variable holds the full absolute path of the directory below
?S: which
 the vendor will install add-on packages.
?S: See INSTALL for usage and examples.
?S:.
?S:vendorprefixexp:
?S: This variable holds the full absolute path of the directory below
?S: which the vendor will install add-on packages.  Derived from vendorprefix.
?S:.
?S:oldvendorprefix:
?S: This variable is set non-null if the vendorprefix was previously defined
?S: and gets set to a new value. Used internally by Configure only.
?S:.
: Set the vendorprefix variables
$cat <<EOM

The installation process will also create a directory for
vendor-supplied add-ons.  Vendors who supply perl with their system
may find it convenient to place all vendor-supplied files in this
directory rather than in the main distribution directory.  This will
ease upgrades between binary-compatible maintenance versions of perl.
```

```
Of course you may also use these directories in whatever way you see
fit.  For example, you might use them to access modules shared over a
company-wide network.

The default answer should be
 fine for most people.
This causes further questions about vendor add-ons to be skipped
and no vendor-specific directories will be configured for perl.

EOM
rp='Do you want to configure vendor-specific add-on directories?'
case "$usevendorprefix" in
define|true|[yY]*) dflt=y ;;
*) : User may have set vendorprefix directly on Configure command line.
 case "$vendorprefix" in
 "|' ') dflt=n ;;
 *) dflt=y ;;
 esac
 ;;
esac
. ./myread
case "$ans" in
[yY]*) fn=d~+
 rp='Installation prefix to use for vendor-supplied add-ons?'
 case "$vendorprefix" in
 ") dflt="$prefix" ;;
 *)  dflt=$vendorprefix ;;
 esac
 . ./getfile
 : XXX Prefixit unit does not yet support siteprefix and vendorprefix
 oldvendorprefix="
 case "$vendorprefix" in
 ") ;;
 *) case "$ans" in
  "$prefix") ;;
  *) oldvendorprefix="$prefix";;
  esac
  ;;
 esac
 usevendorprefix="$define"
 vendorprefix="$ans"
 vendorprefixexp="$ansexp"
 ;;
*) usevendorprefix="$undef"
 vendorprefix="
 vendorprefixexp="
 ;;
```

```
esac

Found in path(s):
*
 /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/vendorprefix.U
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?RCS: $Id: vendorman3dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorman3dir.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorman3dir vendorman3direxp installvendorman3dir: man3dir Getfile \
 Oldconfig Setprefixvar Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorman3dir:
?S: This variable contains the name of the directory for man3
?S: pages.  It may have a ~ on the front.
?S: The standard distribution will put nothing in this directory.
?S: Vendors
 who distribute perl may wish to place their own
?S: man3 pages in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorman3direxp:
?S: This variable is the ~name expanded version of vendorman3dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorman3dir=''
?S:installvendorman3dir:
?S: This variable is really the same as vendorman3direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorman3dir
```

```
: Set the vendorman3dir variables
case "$vendorprefix" in
") vendorman3dir="
 vendorman3direxp="
 ;;
*) : determine where vendor-supplied module manual pages go.
 case "$vendorman3dir" in
 ") dflt=`echo "$man3dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
 *) dflt=$vendorman3dir ;;
 esac
 case "$dflt" in
 "|' ') dflt=none ;;
 esac
 fn=nd~+
 rp='Pathname
 for the vendor-supplied manual section 3 pages?'
 . ./getfile
 vendorman3dir="$ans"
 vendorman3direxp="$ansexp"
 ;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorman3dir" = "X" && vendorman3dir=' '
prefixvar=vendorman3dir
. ./installprefix
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/vendorman3dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fork.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_fork.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:38  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_fork: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_fork:
?S: This variable conditionally defines the HAS_FORK symbol, which
?S: indicates to the C program that the fork() routine is available.
?S:.
?C:HAS_FORK :
?C: This symbol, if defined, indicates that the fork routine is
?C: available.
?C:.
?H:#$d_fork
 HAS_FORK  /**/
?H:.
?LINT:set d_fork
: see if fork exists
set fork d_fork
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_fork.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setlocale.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_setlocale.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  06:57:51  ram
?RCS: patch30: created
?RCS:
?MAKE:d_setlocale: Inlibc
?MAKE: -pick add $@ %<
?S:d_setlocale:
?S: This variable conditionally defines HAS_SETLOCALE if setlocale() is
?S: available to handle locale-specific ctype implementations.
?S:.
?C:HAS_SETLOCALE:
?C: This symbol, if defined, indicates that the setlocale
 routine is
?C: available to handle locale-specific ctype implementations.
```

```
?C:.
?H:#$d_setlocale HAS_SETLOCALE /**/
?H:.
?LINT:set d_setlocale
: see if setlocale exists
set setlocale d_setlocale
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setlocale.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2017-2018, H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_dup3: Inlibc
?MAKE: -pick add $@ %<
?S:d_dup3:
?S: This variable conditionally defines HAS_DUP3 if dup3() is
?S: available to duplicate file descriptors.
?S:.
?C:HAS_DUP3:
?C: This symbol, if defined, indicates that the dup3 routine is
?C: available to duplicate file descriptors.
?C:.
?H:#$d_dup3 HAS_DUP3 /**/
?H:.
?LINT:set d_dup3
: see if dup3 exists
set dup3 d_dup3
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_dup3.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_drem.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_drem.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:12:14  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_drem: Inlibc
?MAKE: -pick add $@ %<
?S:d_drem:
?S: This variable conditionally defines the HAS_DREM symbol, which
?S: indicates to the C program that the drem() routine is available.
?S:.
?C:HAS_DREM :
?C: This symbol, if defined, indicates that the drem routine is
?C: available.
  This routine is roughly the same as fmod, i.e. it
?C: computes the remainder r=x-n*y, where n=rint(x/y), whereas fmod
?C: uses n=trunc(x/y).
?C:.
?H:#$d_drem HAS_DREM  /**/
?H:.
?LINT:set d_drem
: see if drem exists
set drem d_drem
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_drem.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_readdir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_readdir.U,v $
?RCS: Revision 3.0.1.1  1994/05/06  14:46:37  ram
```

```
?RCS: patch23: added support for seekdir, telldir and rewinddir (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X: Force checking for <dirent.h> inclusion
?X:INC: i_dirent
?MAKE:d_readdir d_seekdir d_telldir d_rewinddir: Inlibc
?MAKE: -pick add $@ %<
?S:d_readdir:
?S: This variable conditionally defines HAS_READDIR if readdir()
 is
?S: available to read directory entries.
?S:.
?C:HAS_READDIR (READDIR):
?C: This symbol, if defined, indicates that the readdir routine is
?C: available to read directory entries. You may have to include
?C: <dirent.h>. See I_DIRENT.
?C:.
?H:#$d_readdir HAS_READDIR  /**/
?H:.
?S:d_seekdir:
?S: This variable conditionally defines HAS_SEEKDIR if seekdir() is
?S: available.
?S:.
?C:HAS_SEEKDIR:
?C: This symbol, if defined, indicates that the seekdir routine is
?C: available. You may have to include <dirent.h>. See I_DIRENT.
?C:.
?H:#$d_seekdir HAS_SEEKDIR  /**/
?H:.
?S:d_telldir:
?S: This variable conditionally defines HAS_TELLDIR if telldir() is
?S: available.
?S:.
?C:HAS_TELLDIR:
?C: This symbol, if defined, indicates that the telldir routine is
?C: available. You may have to include <dirent.h>. See I_DIRENT.
?C:.
?H:#$d_telldir HAS_TELLDIR  /**/
?H:.
?S:d_rewinddir:
?S: This variable conditionally defines HAS_REWINDDIR if rewinddir() is
?S: available.
?S:.
?C:HAS_REWINDDIR:
?C: This
```

```
 symbol, if defined, indicates that the rewinddir routine is
?C: available. You may have to include <dirent.h>. See I_DIRENT.
?C:.
?H:#$d_rewinddir HAS_REWINDDIR  /**/
?H:.
?LINT:set d_readdir d_seekdir d_telldir d_rewinddir
: see if readdir and friends exist
set readdir d_readdir
eval $inlibc
@if d_seekdir || HAS_SEEKDIR
set seekdir d_seekdir
eval $inlibc
@end
@if d_telldir || HAS_TELLDIR
set telldir d_telldir
eval $inlibc
@end
@if d_rewinddir || HAS_REWINDDIR
set rewinddir d_rewinddir
eval $inlibc
@end
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_readdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_longlong.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_longlong.U,v $
?RCS:
?MAKE:d_longlong longlongsize: Compile Setvar Myread run \
 cat rm_try test longsize
?MAKE: -pick add $@ %<
?S:d_longlong:
?S: This variable conditionally defines HAS_LONG_LONG if
?S: the long long type is supported.
?S:.
?S:longlongsize:
?S: This variable contains the value of the LONGLONGSIZE symbol, which
?S: indicates to the C program how many bytes there are in a long long,
?S: if this system supports long long.
?S:.
```

```
?C:HAS_LONG_LONG:
?C: This symbol will be defined if the C compiler supports long long.
?C:.
?C:LONGLONGSIZE:
?C: This symbol contains the size of a long long, so that the
?C: C preprocessor can make decisions based on it.  It is only
?C: defined
 if the system supports long long.
?C:.
?H:#$d_longlong HAS_LONG_LONG  /**/
?H:?LONGLONGSIZE:#ifdef HAS_LONG_LONG
?H:?LONGLONGSIZE:#define LONGLONGSIZE $longlongsize  /**/
?H:?LONGLONGSIZE:#endif
?H:.
?F:!try
?LINT:set d_longlong
: check for long long
echo " "
echo "Checking to see if you have long long..." >&4
echo 'int main() { long long x = 7; return 0; }' > try.c
set try
if eval $compile; then
 val="$define"
 echo "You have long long."
else
 val="$undef"
 echo "You do not have long long."
fi
$rm_try
set d_longlong
eval $setvar

@if LONGLONGSIZE || longlongsize
: check for length of long long
?X:  Check only if d_longlong and if longlongsize is not already set.
case "${d_longlong}${longlongsize}" in
$define)
 echo " "
 echo "Checking to see how big your long longs are..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
   printf("%d\n", (int)sizeof(long long));
   return(0);
}
EOCP
 set try
```

```
 if eval $compile_ok; then
  longlongsize=`$run ./try`
  echo "Your long
 longs are $longlongsize bytes long."
 else
  dflt='8'
  echo " "
  echo "(I can't seem to compile the test program.  Guessing...)"
  rp="What is the size of a long long (in bytes)?"
  . ./myread
  longlongsize="$ans"
 fi
 if $test "X$longsize" = "X$longlongsize"; then
  echo "(That isn't any different from an ordinary long.)"
 fi
 ;;
esac
$rm_try
@end
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_longlong.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_stdlib.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_stdlib.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_stdlib: Nothing
?MAKE: -pick add $@ %<
?S:i_stdlib:
?S: This variable unconditionally defines the I_STDLIB symbol.
?S:.
?C:I_STDLIB:
?C: This symbol is always defined, indicating that <stdlib.h> exists
?C: and should be included.
?C:.
```

```
?H:#define I_STDLIB  /**/
?H:.
: stub, used only to satisfy other units
i_stdlib='define'
```

Found in
 path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_stdlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: stdchar.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:stdchar: contains Findhdr cppstdin cppminus rm
?MAKE: -pick add $@ %<
?S:stdchar:
?S: This variable conditionally defines STDCHAR to be the type of char
?S: used in stdio.h.  It has the values "unsigned char" or "char".
?S:.
?C:STDCHAR:
?C: This symbol is defined to be the type of char used in stdio.h.
?C: It has the values "unsigned char" or "char".
?C:.
?H:#define STDCHAR $stdchar /**/
?H:.
?F:!stdioh
:
 see what type of char stdio uses.
echo " "
?X: untangle the #include nest
echo '#include <stdio.h>' | $cppstdin $cppminus > stdioh
if $contains 'unsigned.*char.*_ptr;' stdioh >/dev/null 2>&1 ; then
 echo "Your stdio uses unsigned chars." >&4
 stdchar="unsigned char"
else
 echo "Your stdio uses signed chars." >&4
```

```
 stdchar="char"
fi
$rm -f stdioh
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/stdchar.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Tye McQueen <tye@metronet.com> added safe setuid script checks.
?RCS:
?RCS: $Log: d_dosuid.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:33:03  ram
?RCS: patch61: moved unit to TOP via a ?Y: layout directive
?RCS: patch61: tell them /dev/fd is not about floppy disks
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:12:08  ram
?RCS: patch36: added checks for secure setuid scripts (Tye McQueen)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_dosuid
 d_suidsafe: cat contains ls rm test Myread Setvar \
 Oldconfig Guess package hint
?MAKE: -pick add $@ %<
?S:d_suidsafe:
?S: This variable conditionally defines SETUID_SCRIPTS_ARE_SECURE_NOW
?S: if setuid scripts can be secure.  This test looks in /dev/fd/.
?S:.
?S:d_dosuid:
?S: This variable conditionally defines the symbol DOSUID, which
?S: tells the C program that it should insert setuid emulation code
?S: on hosts which have setuid #! scripts disabled.
?S:.
?C:SETUID_SCRIPTS_ARE_SECURE_NOW:
?C: This symbol, if defined, indicates that the bug that prevents
?C: setuid scripts from being secure is not present in this kernel.
```

```
?C:.
?C:DOSUID:
?C: This symbol, if defined, indicates that the C program should
?C: check the script that it is executing for setuid/setgid bits, and
?C: attempt to emulate setuid/setgid on systems that have disabled
?C: setuid #! scripts because the kernel can't do it securely.
?C: It is up to the package designer to make sure that this emulation
?C: is done securely.
  Among other things, it should do an fstat on
?C: the script it just opened to make sure it really is a setuid/setgid
?C: script, it should make sure the arguments passed correspond exactly
?C: to the argument on the #! line, and it should not trust any
?C: subprocesses to which it must pass the filename rather than the
?C: file descriptor of the script to be executed.
?C:.
?H:#$d_suidsafe SETUID_SCRIPTS_ARE_SECURE_NOW /**/
?H:#$d_dosuid DOSUID  /**/
?H:.
?Y:TOP
?F:!reflect
?LINT: set d_suidsafe
?LINT: set d_dosuid
: see if setuid scripts can be secure
$cat <<EOM

Some kernels have a bug that prevents setuid #! scripts from being
secure.  Some sites have disabled setuid #! scripts because of this.

First let's decide if your kernel supports secure setuid #! scripts.
(If setuid #! scripts would be secure but have been disabled anyway,
don't say that they are secure if asked.)

EOM

val="$undef"
if $test -d /dev/fd; then
 echo "#!$ls" >reflect
 chmod +x,u+s reflect
 ./reflect >flect
 2>&1
 if $contains "/dev/fd" flect >/dev/null; then
  echo "Congratulations, your kernel has secure setuid scripts!" >&4
  val="$define"
 else
  $cat <<EOM
If you are not sure if they are secure, I can check but I'll need a
username and password different from the one you are using right now.
If you don't have such a username or don't want me to test, simply
```

```
enter 'none'.

EOM
  rp='Other username to test security of setuid scripts with?'
  dflt='none'
  . ./myread
  case "$ans" in
  n|none)
   case "$d_suidsafe" in
   ") echo "I'll assume setuid scripts are *not* secure." >&4
    dflt=n;;
   "$undef")
    echo "Well, the $hint value is *not* secure." >&4
    dflt=n;;
   *) echo "Well, the $hint value *is* secure." >&4
    dflt=y;;
   esac
   ;;
  *)
   $rm -f reflect flect
   echo "#!$ls" >reflect
   chmod +x,u+s reflect
   echo >flect
   chmod a+w flect
   echo "'su" will (probably) prompt you for "'$ans's password."
   su $ans -c './reflect >flect'
   if $contains "/dev/fd" flect
 >/dev/null; then
    echo "Okay, it looks like setuid scripts are secure." >&4
    dflt=y
   else
    echo "I don't think setuid scripts are secure." >&4
    dflt=n
   fi
   ;;
  esac
  rp='Does your kernel have *secure* setuid scripts?'
  . ./myread
  case "$ans" in
  [yY]*) val="$define";;
  *) val="$undef";;
  esac
 fi
else
 echo "I don't think setuid scripts are secure (no /dev/fd directory)." >&4
 echo "(That's for file descriptors, not floppy disks.)"
 val="$undef"
fi
```

```
set d_suidsafe
eval $setvar

$rm -f reflect flect

: now see if they want to do setuid emulation
echo " "
val="$undef"
case "$d_suidsafe" in
"$define")
 val="$undef"
 echo "No need to emulate SUID scripts since they are secure here." >& 4
 ;;
*)
 $cat <<EOM
Some systems have disabled setuid scripts, especially systems where
setuid scripts cannot be secure.  On systems where setuid scripts have
been disabled, the setuid/setgid bits on scripts are currently
useless.  It is possible for $package to detect those bits
 and emulate
setuid/setgid in a secure fashion.  This emulation will only work if
setuid scripts have been disabled in your kernel.

EOM
 case "$d_dosuid" in
 "$define") dflt=y ;;
 *) dflt=n ;;
 esac
 rp="Do you want to do setuid/setgid emulation?"
 . ./myread
 case "$ans" in
 [yY]*) val="$define";;
 *) val="$undef";;
 esac
 ;;
esac
set d_dosuid
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_dosuid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?MAKE:usesocks: Myread Oldconfig Setvar spackage package
?MAKE: -pick add $@ %<
?Y:TOP
?S:usesocks:
?S: This variable conditionally defines the USE_SOCKS symbol,
?S: and indicates that Perl should be built to use SOCKS.
?S:.
?C:USE_SOCKS:
?C: This symbol, if defined, indicates that Perl should
?C: be built to use socks.
?C:.
?H:?%<:#$usesocks USE_SOCKS  /**/
?H:.
?D:usesocks="
?LINT:set usesocks
: check for requested SOCKS support
case "$usesocks" in
$define|true|[yY]*) dflt='y';;
*)
 dflt='n';;
esac
cat <<EOM

$spackage can be built to use the SOCKS proxy protocol library.
If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp="Build $package for SOCKS?"
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*)      val="$undef" ;;
esac
set usesocks
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/usesocks.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: alignbytes.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:02:28  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:25:20  ram
?RCS: patch23: avoid ALIGNBYTES, since it conflicts on NetBSD
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:23  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:alignbytes: Assert Myread Trylink cat i_inttypes i_limits i_math
?MAKE: -pick add $@ %<
?S:alignbytes:
?S: This variable holds the number of bytes required
 to align an
?S: arbitrary standard type. Usual values are 2, 4 and 8.
?S:.
?X: This used to be called ALIGNBYTES, but that conflicts with
?X: <machines/param.h> in NetBSD.
?C:MEM_ALIGNBYTES (ALIGNBYTES):
?C: This symbol contains the number of bytes required to align a
?C: double. Usual values are 2, 4 and 8.
?C:.
?H:#define MEM_ALIGNBYTES $alignbytes /**/
?H:.
?T:alignment result
: check for alignment requirements
echo " "
case "$alignbytes" in
")
 echo "Checking alignment constraints..." >&4

 for alignment in 8 4 2 1 16 32 error
 do
  $cat >try.c <<EOCP
#$i_inttypes I_INTTYPES
#ifdef I_INTTYPES
#include <inttypes.h>
```

```
#endif
#$i_limits I_LIMITS
#ifdef I_LIMITS
#include <limits.h>
#endif
#$i_math I_MATH
#ifdef I_MATH
#include <math.h>
#endif

union u {
 void *void_ptr;
 void (*func_ptr)(void);
 char c;
 short s;
 int i;
 long l;
 float f;
 double d;
#ifdef LLONG_MAX
 long long ll;
#else
#warning "LLONG_MAX undefined"
#endif
#if defined(HUGE_VALL)
 long double ld;
#else
#warning
 "HUGE_VALL undefined"
#endif
#ifdef UINT32_MAX
 uint32_t u32;
#else
#warning "UINT32_MAX undefined"
#endif
#ifdef UINT16_MAX
 uint16_t u16;
#else
#warning "UINT32_MAX undefined"
#endif
#ifdef UINT64_MAX
 uint64_t u64;
#else
#warning "UINT64_MAX undefined"
#endif
#ifdef UINTMAX_MAX
 uintmax_t m;
#else
```

```
#warning "UINTMAX_MAX undefined"
#endif
#ifdef UINTPTR_MAX
 uintptr_t up;
#else
#warning "UINTPTR_MAX undefined"
#endif
};

struct s {
 char a;
 union u b;
};

#include "static_assert.h"

int
main(void)
{
 STATIC_ASSERT($alignment == ((sizeof (struct s) - (sizeof (union u)))));
 return 0;
}
EOCP

  result="
  set result
  eval $trylink
  case "$result" in
  "$define") break;;
  esac
 done

 case "$alignment" in
 error) dflt='8'
  echo "(I can't seem to compile the test program...)" >&4
  ;;
 *) dflt=$alignment
  ;;
 esac
;;
*) dflt="$alignbytes"
 ;;
esac
rp="What is the maximum alignment in bytes required for a standard type?"
. ./myread
alignbytes="$ans"

Found in path(s):
```

* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/alignbytes.U
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```
?RCS: $Id: d_setsent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_setsent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setsent: Inlibc
?MAKE: -pick add $@ %<
?S:d_setsent:
?S: This variable conditionally defines HAS_SETSERVENT if setservent() is
?S: available.
?S:.
?C:HAS_SETSERVENT:
?C: This symbol, if defined, indicates that the setservent() routine is
?C: available.
?C:.
?H:#$d_setsent HAS_SETSERVENT  /**/
?H:.
?LINT:set d_setsent
: see if setservent exists
set
 setservent d_setsent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_setsent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
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```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:full_ar: ar
?MAKE: -pick add $@ %<
?S:full_ar:
?S: This variable contains the full pathname to 'ar', whether or
?S: not the user has specified 'portability'.  This is only used
?S: in the Makefile.SH.
?S:.
: Store the full pathname to the ar program for use in the C program
: Respect a hint or command line value for full_ar.
case "$full_ar" in
") full_ar=$ar ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/Loc_ar.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_memset.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memset.U,v $
?RCS: Revision 3.0.1.1  1993/09/13  16:03:11  ram
?RCS: patch10: removed text recommending bzero over memset (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:36  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_memset: Inlibc
?MAKE: -pick add $@ %<
?S:d_memset:
?S: This variable conditionally defines the HAS_MEMSET symbol, which
?S: indicates to the C program that the memset() routine is available
?S: to set blocks of memory.
?S:.
?C:HAS_MEMSET
 (MEMSET):
?C: This symbol, if defined, indicates that the memset routine is available
```

```
?C: to set blocks of memory.
?C:.
?H:#$d_memset HAS_MEMSET /**/
?H:.
?LINT:set d_memset
: see if memset exists
set memset d_memset
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_memset.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethname.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_gethname.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:13:00  ram
?RCS: patch36: call ./xenix explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:11  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_gethname d_uname d_phostname aphostname: phostname cat \
 myhostname package d_portable Loc echo n c +i_whoami +usrinc \
 Myread Guess Oldconfig Csym
?MAKE: -pick add $@ %<
?S:d_gethname:
?S: This variable conditionally
 defines the HAS_GETHOSTNAME symbol, which
?S: indicates to the C program that the gethostname() routine may be
?S: used to derive the host name.
?S:.
?S:d_uname:
?S: This variable conditionally defines the HAS_UNAME symbol, which
?S: indicates to the C program that the uname() routine may be
?S: used to derive the host name.
?S:.
?S:d_phostname:
?S: This variable conditionally defines the HAS_PHOSTNAME symbol, which
```

```
?S: contains the shell command which, when fed to popen(), may be
?S: used to derive the host name.
?S:.
?S:aphostname:
?S: This variable contains the command which can be used to compute the
?S: host name. The command is fully qualified by its absolute path, to make
?S: it safe when used by a process with super-user privileges.
?S:.
?C:HAS_GETHOSTNAME (GETHOSTNAME):
?C: This symbol, if defined, indicates that the C program may use the
?C: gethostname() routine to derive the host name.  See also HAS_UNAME
?C: and PHOSTNAME.
?C:.
?C:HAS_UNAME (UNAME):
?C: This symbol,
 if defined, indicates that the C program may use the
?C: uname() routine to derive the host name.  See also HAS_GETHOSTNAME
?C: and PHOSTNAME.
?C:.
?C:PHOSTNAME:
?C: This symbol, if defined, indicates the command to feed to the
?C: popen() routine to derive the host name.  See also HAS_GETHOSTNAME
?C: and HAS_UNAME. Note that the command uses a fully qualified path,
?C: so that it is safe even if used by a process with super-user
?C: privileges.
?C:.
?C:HAS_PHOSTNAME:
?C: This symbol, if defined, indicates that the C program may use the
?C: contents of PHOSTNAME as a command to feed to the popen() routine
?C: to derive the host name.
?C:.
?H:?%<:#$d_gethname HAS_GETHOSTNAME /**/
?H:?%<:#$d_uname HAS_UNAME  /**/
?H:?%<:#$d_phostname HAS_PHOSTNAME /**/
?H:?%<:#ifdef HAS_PHOSTNAME
?H:?%<:#define PHOSTNAME "$aphostname" /* How to get the host name */
?H:?%<:#endif
?H:.
?T:file val call
?LINT:change i_whoami
: see how we will look up host name
echo " "
call=''
@if HAS_GETHOSTNAME
if
 set gethostname val -f d_gethname; eval $csym; $val; then
 echo 'gethostname() found.' >&4
 d_gethname="$define"
```

```
 call=gethostname
fi
@end
@if HAS_UNAME
if set uname val -f d_uname; eval $csym; $val; then
 if ./xenix; then
  $cat <<'EOM'
uname() was found, but you're running xenix, and older versions of xenix
have a broken uname(). If you don't really know whether your xenix is old
enough to have a broken system call, use the default answer.

EOM
  dflt=y
  case "$d_uname" in
  "$define") dflt=n;;
  esac
  rp='Is your uname() broken?'
  . ./myread
  case "$ans" in
  n*) d_uname="$define"; call=uname;;
  esac
 else
  echo 'uname() found.' >&4
  d_uname="$define"
  case "$call" in
  ") call=uname ;;
  esac
 fi
fi
@end
case "$d_gethname" in
") d_gethname="$undef";;
esac
case "$d_uname" in
") d_uname="$undef";;
esac
@if PHOSTNAME || MYHOSTNAME
case "$d_uname$d_gethname" in
*define*)
 dflt=n
 cat <<EOM

Every now and then someone has a $call() that lies about the hostname
but can't be fixed
 for political or economic reasons.  If you wish, I can
@if MYHOSTNAME && PHOSTNAME
pretend $call() isn't there and maybe compile in the hostname or
compute it from the '$phostname' command at run-time.
```

```
@elsif MYHOSTNAME
pretend $call() isn't there and maybe compile in the hostname.
@elsif PHOSTNAME
pretend $call() isn't there and maybe compute hostname at run-time
thanks to the '$phostname' command.
@elsif WHOAMI
get the hostname from whomai.h (provided you have one).
@else
simply ignore your host name and use someting like "noname" instead.
@end

EOM
 rp="Shall I ignore $call() from now on?"
 . ./myread
 case "$ans" in
 y*) d_uname="$undef" d_gethname="$undef"; $echo $n "Okay...$c";;
 esac;;
esac
@end
@if PHOSTNAME || aphostname
?X: Compute the full path name for the command
case "$phostname" in
") aphostname=";;
*) case "$aphostname" in
 /*) ;;
 *) set X $phostname
  shift
  file=$1
  shift
  file=`./loc $file $file $pth`
  aphostname=`echo $file $*`
  ;;
 esac
 ;;
esac
@end
@if
 PHOSTNAME && MYHOSTNAME
case "$d_uname$d_gethname" in
*define*) ;;
*)
 case "$phostname" in
 ") ;;
 *)
  $cat <<EOT

There is no gethostname() or uname() on this system.  You have two
possibilities at this point:
```

```
1)  You can have your host name ($myhostname) compiled into $package, which
   lets $package start up faster, but makes your binaries non-portable, or
2)  you can have $package use a

 popen("$aphostname","r")

   which will start slower but be more portable.

@ if WHOAMI
Option 1 will give you the option of using whoami.h if you have one.
@ end
If you want option 2 but with a different command, you can edit config.sh at
the end of this shell script.

EOT
  case "$d_phostname" in
  "$define") dflt=n;;
  "$undef")  dflt=y;;
  ")
   case "$d_portable" in
   "$define") dflt=n ;;
   *) dflt=y ;;
   esac;;
  esac
  rp="Do you want your host name compiled in?"
  . ./myread
  case "$ans" in
  n*) d_phostname="$define" ;;
  *) aphostname=''; d_phostname="$undef";;
  esac;;
 esac
 case
 "$aphostname" in
 ")
@ if WHOAMI
  case "$i_whoami" in
  "$define")
   dflt=y
   $cat <<EOM

No hostname function--you can either use the whoami.h file, which has this line:

 `grep sysname $usrinc/whoami.h`

or you can have the name we came up with earlier ($myhostname) hardwired in.
EOM
   rp="Use whoami.h to get hostname?"
```

```
   . ./myread
   case "$ans" in
   n*) i_whoami="$undef";;
   esac
   ;;
  "$undef")
   $cat <<EOM
No hostname function and no whoami.h -- hardwiring "$myhostname".
EOM
   ;;
  esac;;
@ else
  echo 'No hostname function -- hardwiring "'$myhostname'".' >&4;;
@ end
 esac;;
esac
@elsif PHOSTNAME
case "$d_uname$d_gethname" in
*define*) ;;
*)
 case "$phostname" in
 ")
@ if WHOAMI
  case "$i_whoami" in
  "$define")
   $cat <<EOM

No hostname function--we'll use the whoami.h file, which has this line:

 `grep sysname $usrinc/whoami.h`

EOM
   ;;
  *) echo "There will be no way for $package to get your hostname." >&4;;
  esac;;
@ else
  echo "There will be no way
 for $package to get your hostname." >&4;;
@ end
 *)
 echo "I'll use 'popen("""$aphostname'", "r")"" to get your hostname." >&4
  ;;
 esac;;
esac
@elsif MYHOSTNAME
case "$d_uname$d_gethname" in
*define*) ;;
*)
```

```
@ if WHOAMI
 case "$i_whoami" in
 "$define")
  dflt=y
  $cat <<EOM

No hostname function--you can either use the whoami.h file, which has this line:

 `grep sysname $usrinc/whoami.h`

or you can have the name we came up with earlier ($myhostname) hardwired in.
EOM
  rp="Use whoami.h to get hostname?"
  . ./myread
  case "$ans" in
  n*) i_whoami="$undef";;
  esac
  ;;
 "$undef")
  echo 'No whoami.h--hardwiring "'$myhostname'".' >&4;;
 esac;;
@ else
 echo 'Hardwiring "'$myhostname'".' >&4;;
@ end
esac
@end
case "$d_phostname" in
") d_phostname="$undef";;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_gethname.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_inetpton: Inlibc
?MAKE: -pick add $@ %<
?S:d_inetpton:
?S: This variable conditionally defines the HAS_INETPTON symbol,
?S: which indicates to the C program that the inet_pton() function
?S: is available.
```

```
?S:.
?C:HAS_INETPTON:
?C: This symbol, if defined, indicates that the inet_pton() function
?C: is available to parse IPv4 and IPv6 strings.
?C:.
?H:#$d_inetpton HAS_INETPTON  /**/
?H:.
?LINT:set d_inetpton
: see if inet_pton exists
set inet_pton d_inetpton
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_inetpton.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_hasmntopt: Inlibc
?MAKE: -pick add $@ %<
?S:d_hasmntopt:
?S: This variable conditionally defines the HAS_HASMNTOPT symbol, which
?S: indicates to the C program that the hasmntopt() routine is available
?S: to query the mount options of file systems.
?S:.
?C:HAS_HASMNTOPT:
?C: This symbol, if defined, indicates that the hasmntopt routine is
?C: available to query the mount options of file systems.
?C:.
?H:#$d_hasmntopt HAS_HASMNTOPT  /**/
?H:.
?LINT:set d_hasmntopt
: see if hasmntopt exists
set hasmntopt d_hasmntopt
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_hasmntopt.U
No license file was found, but licenses were detected in source scan.

```
# $Id: errnolist.sh,v 3.0.1.1 1994/01/24 14:00:00 ram Exp ram $
```

```
#
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#
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#  as specified in the README file that comes with the distribution.
#  You may reuse parts of this distribution only within the terms of
#  that same Artistic Licence; a copy of which may be found at the root
#  of the source tree for dist 4.0.
#
# Original Author: Harlan Stenn <harlan@mumps.pfcs.com>
#
# $Log: errnolist.sh,v $
# Revision 3.0.1.1  1994/01/24  14:00:00  ram
# patch16: changed top ln-style config.sh lookup into test-style one
#
# Revision 3.0  1993/08/18  12:04:36  ram
# Baseline for dist 3.0 netwide release.
#

case $CONFIG in
")
 if test -f config.sh; then TOP=.;
 elif test -f ../config.sh; then TOP=..;
 elif test -f ../../config.sh; then TOP=../..;
 elif test -f ../../../config.sh; then TOP=../../..;
 elif
 test -f ../../../../config.sh; then TOP=../../../..;
 else
  echo "Can't find config.sh."; exit 1
 fi
 . $TOP/config.sh
 ;;
esac
case "$0" in
*/*) cd `expr X$0 : 'X\(.*\)/'` ;;
esac
case "$errnolistc" in
") ;;
*)
 echo "Making $errnolistc ..."
 awk -f errnolist.a < /usr/include/sys/errno.h > $errnolistc
 echo "It would be a good idea to make sure that $errnolistc is correct."
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/errnolist.SH

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2015 Jarkko Hietaniemi, H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:longdblinfbytes longdblnanbytes doubleinfbytes doublenanbytes: Inlibc \
 cat Compile run rm_try Setvar echo d_longdbl \
 doublekind doublesize longdblkind longdblsize
?MAKE: -pick add $@ %<
?S:longdblinfbytes:
?S: This variable contains comma-separated list of hexadecimal bytes
?S: for the long double precision infinity.
?S:.
?S:longdblnanbytes:
?S: This variable contains comma-separated list of hexadecimal bytes
?S: for the long double precision not-a-number.
?S:.
?S:doubleinfbytes:
?S: This variable contains comma-separated list of hexadecimal bytes
?S: for the double precision infinity.
?S:.
?S:doublenanbytes:
?S: This variable contains comma-separated list of hexadecimal bytes
?S: for
 the double precision not-a-number.
?S:.
?C:DOUBLEINFBYTES:
?C: This symbol, if defined, is a comma-separated list of
?C: hexadecimal bytes for the double precision infinity.
?C:.
?C:DOUBLENANBYTES:
?C: This symbol, if defined, is a comma-separated list of
?C: hexadecimal bytes (0xHH) for the double precision not-a-number.
?C:.
?C:LONGDBLINFBYTES:
?C: This symbol, if defined, is a comma-separated list of
?C: hexadecimal bytes for the long double precision infinity.
?C:.
?C:LONGDBLNANBYTES:
?C: This symbol, if defined, is a comma-separated list of
?C: hexadecimal bytes (0xHH) for the long double precision not-a-number.
?C:.
?H:#define DOUBLEINFBYTES  $doubleinfbytes  /**/
?H:#define DOUBLENANBYTES  $doublenanbytes  /**/
```

```
?H:#define LONGDBLINFBYTES $longdblinfbytes  /**/
?H:#define LONGDBLNANBYTES $longdblnanbytes  /**/
?H:.
?F:!try
: Check what kind of inf/nan your system has
$echo "Checking the kind of infinities and nans you have..." >&4
$echo "(The following tests may crash.  That's
 okay.)" >&4
$cat >try.c <<EOP
#define DOUBLESIZE $doublesize
#$d_longdbl HAS_LONG_DOUBLE
#ifdef HAS_LONG_DOUBLE
#define LONG_DOUBLESIZE $longdblsize
#define LONG_DOUBLEKIND $longdblkind
#endif
#include <math.h>
#include <string.h>
#include <stdio.h>
/* Note that whether the sign bit is on or off
* for NaN depends on the CPU/FPU, and possibly
* can be affected by the build toolchain.
*
* For example for older MIPS and HP-PA 2.0 the quiet NaN is:
* 0x7f, 0xf7, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff
* 0x7f, 0xf4, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00
* (respectively) as opposed to the more usual
* 0x7f, 0xf8, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00
*
* Pre-IEEE-754 floating point format do not even have inf/nan support
* at all.  They might have a "max" value (DBL_MAX), which may be deadly
* to even mention, causing immediate SIGFPE or equivalent: this is
* the case with VAX floating point, for example.
*/
static void bytes(void *v, unsigned int n) {
 unsigned char *p = (unsigned
 char *)v;
 int i;
 for (i = 0; i < n; i++) {
   printf("0x%02x%s", p[i], i < n - 1 ? ", " : "\n");
 }
}
int main(int argc, char *argv[]) {
  /* We cannot use 1.0/0.0 and 0.0/0.0 (with L suffixes for long double)
   * because some compilers are 'smart' and not only warn but refuse to
   * compile such 'illegal' values. */
  double dinf = exp(1e9);
  double dnan = sqrt(-1.0);
#ifdef HAS_LONG_DOUBLE
```

```
  long double ldinf = (long double)exp(1e9);
  long double ldnan = (long double)sqrt(-1.0);
# if LONG_DOUBLEKIND == 3 || LONG_DOUBLEKIND == 4
/* the 80-bit long doubles might have garbage in their excess bytes */
   memset((char *)&ldinf + 10, '\0', LONG_DOUBLESIZE - 10);
   memset((char *)&ldnan + 10, '\0', LONG_DOUBLESIZE - 10);
# endif
 if (argc == 2) {
   switch (argv[1][0]) {
   case '1': bytes(&dinf, sizeof(dinf)); break;
   case '2': bytes(&dnan, sizeof(dnan)); break;
   case '3': bytes(&ldinf, sizeof(ldinf)); break;
   case '4': bytes(&ldnan, sizeof(ldnan)); break;
#endif
    }
 }
 return 0;
}
EOP
set try
if eval $compile; then
   doubleinfbytes=`$run ./try 1`
   doublenanbytes=`$run ./try 2`
   case "$d_longdbl" in
   $define)
     longdblinfbytes=`$run ./try 3`
     longdblnanbytes=`$run ./try 4`
     ;;
   esac
else
   # Defaults in case the above test program failed.
   case "$doublekind" in
   1) # IEEE 754 32-bit LE
      doubleinfbytes='0x00, 0x00, 0xf0, 0x7f'
      doublenanbytes='0x00, 0x00, 0xf8, 0x7f'
      ;;
   2) # IEEE 754 32-bit BE
      doubleinfbytes='0x7f, 0xf0, 0x00, 0x00'
      doublenanbytes='0x7f, 0xf8, 0x00, 0x00'
      ;;
   3) # IEEE 754 64-bit LE
      doubleinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf0, 0x7f'
      doublenanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf8, 0x7f'
      ;;
   4) # IEEE 754 64-bit BE
      doubleinfbytes='0x7f, 0xf0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00'
      doublenanbytes='0x7f, 0xf8, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00'
      ;;
```

```
  5) # IEEE 754 128-bit LE
     doubleinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf0,
0x7f'
     doublenanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf8,
0x7f'
     ;;
  6) # IEEE 754 128-bit BE
     doubleinfbytes='0x7f, 0xf0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
     doublenanbytes='0x7f, 0xf8, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
     ;;
  7) # IEEE 754 64-bit mixed: 32-bit LEs in BE
     doubleinfbytes='0x00, 0x00, 0xf0, 0x7f, 0x00, 0x00, 0x00, 0x00'
     doublenanbytes='0x00, 0x00, 0xf8, 0x7f, 0x00, 0x00, 0x00, 0x00'
     ;;
  8) # IEEE 754 64-bit mixed: 32-bit BEs in LE
     doubleinfbytes='0x00, 0x00, 0x00, 0x00, 0x7f, 0xf0, 0x00, 0x00'
     doublenanbytes='0x00, 0x00, 0x00, 0x00, 0x7f, 0xf8, 0x00, 0x00'
     ;;
  9|10|11|12|13|14) # VAX/Cray/IBM floating point formats, no inf/nan.
     doubleinfbytes=$undef
     doublenanbytes=$undef
     ;;
  *) # No idea.
     doubleinfbytes=$undef
     doublenanbytes=$undef
     ;;
  esac
  case "$longdblkind" in
  1) # IEEE 754 128-bit LE
     longdblinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xff,
0x7f'
     longdblnanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x80, 0xff,
0x7f'
     ;;
  2) # IEEE 754 128-bit BE
     longdblinfbytes='0x7f, 0xff, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
     longdblnanbytes='0x7f, 0xff, 0x80, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
     ;;
  3) # IEEE 754 80-bit LE, 12 or 16 bytes (x86)
     case "$longdblsize" in
     12) # x86 32-bit (96 bits, or 4 x 32, or 12 x 8)
        longdblinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x80, 0xff, 0x7f, 0x00, 0x00'
        longdblnanbytes='0x00,
```

```
 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xc0, 0xff, 0x7f, 0x00, 0x00'
        ;;
      16) # x86_64
        longdblinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x80, 0xff, 0x7f, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
        longdblnanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xc0, 0xff, 0x7f, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
        ;;
      *)  # No idea.
        longdblinfbytes=$undef
        longdblnanbytes=$undef
      ;;
      esac
      ;;
    4) # IEEE 754 80-bit BE, 12 or 16 bytes
      case "$longdblsize" in
      12) # 32-bit system
        longdblinfbytes='0x7f, 0xff, 0x80, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00'
        longdblnanbytes='0x7f, 0xff, 0xc0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00'
        ;;
      16) # 64-bit system
        longdblinfbytes='0x7f, 0xff, 0x80, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
        longdblnanbytes='0x7f,
 0xff, 0xc0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00'
        ;;
      *)  # No idea.
        longdblinfbytes=$undef
        longdblnanbytes=$undef
      ;;
      esac
      ;;
    5) # 128-bit LE-LE "double double"
      longdblinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf0,
0x7f'
      longdblnanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf8,
0x7f'
      ;;
    6) # 128-bit BE-BE "double double"
      longdblinfbytes='0x7f, 0xf0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
      longdblnanbytes='0x7f, 0xf8, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
      ;;
    7) # 128-bit LE-BE "double double"
      longdblinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf0, 0x7f, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
      longdblnanbytes='0x00, 0x00,
```

```
 0x00, 0x00, 0x00, 0x00, 0xf8, 0x7f, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00'
    ;;
  8) # 128-bit BE-LE "double double"
    longdblinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x7f, 0xf0, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
    longdblnanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x7f, 0xf8, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
    ;;
  9|10|11|12|13|14) # VAX/Cray/IBM floating point formats, no inf/nan.
    longdblinfbytes=$undef
    longdblnanbytes=$undef
    ;;
  *) # No idea.
    longdblinfbytes=$undef
    longdblnanbytes=$undef
    ;;
  esac
fi
# In case the program crashed the values are empty, turn them undef.
case "$doubleinfbytes" in
") doubleinfbytes=$undef ;;
esac
case "$doublenanbytes" in
") doublenanbytes=$undef ;;
esac
case "$longdblinfbytes" in
") longdblinfbytes=$undef ;;
esac
case "$longdblnanbytes" in
") longdblnanbytes=$undef ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/infnan.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_chsize.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: d_chsize.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_chsize: Inlibc
?MAKE: -pick add $@ %<
?S:d_chsize:
?S: This variable conditionally defines the CHSIZE symbol, which
?S: indicates to the C program that the chsize() routine is available
?S: to truncate files.  You might need a -lx to get this routine.
?S:.
?C:HAS_CHSIZE (CHSIZE):
?C: This symbol, if defined, indicates that the chsize
 routine is available
?C: to truncate files.  You might need a -lx to get this routine.
?C:.
?H:#$d_chsize HAS_CHSIZE  /**/
?H:.
?LINT:set d_chsize
: see if chsize exists
set chsize d_chsize
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_chsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: usecbacktrace.U,v $
?RCS:
?RCS: Copyright (c) 2014 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: usecbacktrace.U,v $
?RCS:
?MAKE:usecbacktrace: Myread Oldconfig Setvar Getfile d_backtrace
?MAKE: -pick add $@ %<
?Y:TOP
?S:usecbacktrace:
?S: This variable indicates whether we are compiling with backtrace
?S: support.
?S:.
?C:USE_C_BACKTRACE:
?C: This symbol, if defined, indicates that Perl should
?C: be built with support for backtrace.
?C:.
```

```
?H:#$usecbacktrace USE_C_BACKTRACE  /**/
?H:.
: Check if C backtrace is actually supported.
case "$usecbacktrace" in
 "") usecbacktrace=$undef ;;
 [yY]*|true|$define)
   case "$d_backtrace" in
     [yY]*|true|$define)
       ;;
     *)
       echo "This system does not support backtrace" >&4
       usecbacktrace=$undef

  ;;
     esac
   ;;
 esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/usebacktrace.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtold_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtold_l:
?S: This variable conditionally defines the HAS_STRTOLD_L symbol, which
?S: indicates to the C program that the strtold_l() routine is available.
?S:.
?C:HAS_STRTOLD_L:
?C: This symbol, if defined, indicates that the strtold_l routine is
?C: available to convert strings to long doubles.
?C:.
?H:#$d_strtold_l HAS_STRTOLD_L  /**/
?H:.
?LINT:set d_strtold_l
: see if strtold_l exists
set strtold_l d_strtold_l
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_strtold_l.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:perladmin: cf_email Oldconfig Myread cat
?MAKE: -pick add $@ %<
?Y:TOP
?S:perladmin:
?S: Electronic mail address of the perl5 administrator.
?S:.
: Ask e-mail of administrator
$cat <<EOM

If you or somebody else will be maintaining perl at your site, please
fill in the correct e-mail address here so that they may be contacted
if necessary. Currently, the "perlbug" program included with perl
will send mail to this address in addition to perlbug@perl.org. You may
enter "none" for no administrator.

EOM
case "$perladmin" in
") dflt="$cf_email";;
*) dflt="$perladmin";;
esac
rp='Perl administrator e-mail address'
. ./myread
perladmin="$ans"
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/perladmin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
```

```
?RCS:
?MAKE:multiarch: osname
?MAKE: -pick add $@ %<
?S:multiarch:
?S: This variable conditionally defines the MULTIARCH symbol
?S: which signifies the presence of multiplatform files.
?S: This is normally set by hints files.
?S:.
?C:MULTIARCH:
?C: This symbol, if defined, signifies that the build
?C: process will produce some binary files that are going to be
?C: used in a cross-platform environment.  This is the case for
?C: example with the NeXT "fat" binaries that contain executables
?C: for
 several CPUs.
?C:.
?H:#$multiarch MULTIARCH  /**/
?H:.
: Check if is a multiplatform env
case "$osname" in
darwin) multiarch="$define" ;;
esac
case "$multiarch" in
"|[nN]*) multiarch="$undef" ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/a_dvisory/multiarch.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_PORTAR.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_PORTAR.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:08:42  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:40  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:d_PORTAR: cat +cc rm Setvar
?MAKE: -pick add $@ %<
?S:d_PORTAR:
?S: This variable conditionally handles definition of PORTAR,
?S: a creation of greater minds than I can imagine.
?S:.
?C:PORTAR:
?C: This manifest constant must
 be defined to 1 for some implementations
?C: of ar.h to get the portable ar most everybody uses.
?C:.
?L:ar_fmag:
?L:ARFMAG:
?L:SARMAG:
?H:#$d_PORTAR PORTAR 1 /**/
?H:.
?F:!portar
?LINT:set d_PORTAR
: see if we need to define PORTAR
echo " "
echo 'Checking to see if we need to define PORTAR for portable archives...' >&4
$cat >portar.c <<'EOCP'
#include <ar.h>
int main() {
 char *arfmag = ARFMAG;
 int sarmag = SARMAG;
 struct ar_hdr arh;

 strncpy(arh.ar_fmag, arfmag, 2);

#ifdef PORTAR
 printf("D\n");
#else
 printf("U\n");
#endif
 exit(0);}
EOCP
if $cc -o portar portar.c >/dev/null 2>&1 || \
 $cc -DPORTAR=1 -o portar portar.c >/dev/null 2>&1 ; then
 case "`./portar`" in
 D)
  val="$define"
  echo "We'll be defining PORTAR for you."
  ;;
 U)
  val="$undef"
  echo "We don't seem to need PORTAR defined here."
  ;;
```

```
 *)
  val="$define"
  echo "(My test program gave me an unexpected value!)"
  echo "I'll just define PORTAR to be sure."
  ;;
 esac
else
 echo "(Strange, I couldn't get my test
 program to compile.)"
 echo "We'll just define PORTAR in this case."
 val="$define"
fi
set d_PORTAR
eval $setvar
$rm -f portar*
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_PORTAR.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_linuxstd.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_linuxstd.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:14:05  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_linuxstd: d_stdstdio cppstdin cppflags cppminus \
 contains rm Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_linuxstd:
?S: This variable conditionally defines USE_LINUX_STDIO if this system
?S: has a FILE structure declaring _IO_read_base, _IO_read_ptr,
?S: and _IO_read_end
 in stdio.h.
?S:.
?C:USE_LINUX_STDIO:
?C: This symbol is defined if this system has a FILE structure declaring
```

```
?C: _IO_read_base, _IO_read_ptr, and _IO_read_end in stdio.h.
?C:.
?H:#$d_linuxstd USE_LINUX_STDIO  /**/
?H:.
?T:xxx
?LINT:set d_linuxstd
: see if stdio is like that in linux
case "$d_stdstdio" in
"$undef")
 echo " "
 xxx=`./findhdr stdio.h`
 $cppstdin $cppflags $cppminus < "$xxx" > stdio.E
 if $contains 'char.*_IO_read_base' stdio.E >/dev/null 2>&1 && \
  $contains '_IO_read_ptr' stdio.E >/dev/null 2>&1 && \
  $contains '_IO_read_end' stdio.E >/dev/null 2>&1 ; then
   echo "Your stdio looks like linux." >&4
   val="$define"
 else
  echo "You don't have linux stdio, either." >&4
  val="$undef"
 fi
 $rm -f stdio.E
 ;;
*) val="$undef" ;;
esac

set d_linuxstd
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_linuxstd.U
No license file was found, but licenses were detected in source scan.

```
;##########################################################################
;# Jmake rules for building libraries, programs, scripts, and data files
;# $Id: Jmake.rules 18 2006-12-27 10:35:09Z rmanfredi $

/*
*     MACHINE-INDEPENDENT RULES -- DO NOT MODIFY
*/

/* $Id: Jmake.rules 18 2006-12-27 10:35:09Z rmanfredi $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
```

```
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* $Log: Jmake.rules,v $
* Revision 3.0.1.7  2004/08/22 08:28:58  ram
* patch71: random cleanup
*
* Revision 3.0.1.6  1997/02/28  14:56:01  ram
* patch61: now handles USRINC for dependencies
* patch61: smarter about dependencies
 computation
*
* Revision 3.0.1.5  1995/09/25  09:07:19  ram
* patch59: smarter sed command to strip /usr/include dependencies
*
* Revision 3.0.1.4  1995/07/25  13:33:59  ram
* patch56: install of script man pages can now cope with missing files
* patch56: the clobber target now removes the .config directory as well
*
* Revision 3.0.1.3  1995/03/21  08:35:28  ram
* patch52: suppressed extra argument to NormalProgramTarget call
*
* Revision 3.0.1.2  1995/01/11  14:49:55  ram
* patch45: new macros ShellScriptTargetExt and SimpleShellScriptTargetExt
* patch45: directory installation is now made via INSTALLDIR (Configure)
*
* Revision 3.0.1.1  1994/10/29  15:46:30  ram
* patch36: added RemoteDependency rule
*
* Revision 3.0  1993/08/18  12:04:14  ram
* Baseline for dist 3.0 netwide release.
*
*/

/* Please, edit only with tabstops = 4 (":set ts=4" under vi) */

/*
* AddedByConfigure:
* Gives name of the files generated by Configure that can safely
* be removed
 when a "make clobber" is issued. Not that it is useless
* to name config.h or config.sh because these are already taken care
* of by jmake.
*/
#define AddedByConfigure(files) @!\
local_clobber::   @@\
 $(RM) files
```

```
/*
* AddSuffix:
* Adds a sufix to the .SUFFIXES: list.
*/
#define AddSuffix(ext) @!\
|suffix ext


/*
* AllTarget:
* Generate rules to build necessary things during make all.
*/
#define AllTarget(depends) @!\
all:: depends    @!\
       @!\
local_realclean::   @@\
 $(RM) depends

/*
* RemoveTargetProgram:
* This is used in some other macros in order to remove the target
* before starting its building (saves disk space).  There should be
* no '@!' at the end of the '#define' line, because this macro is
* used *inside* building rules.
*/
#define RemoveTargetProgram(program) \
 $(RM) program @@\
 if test -f program^^^$(_EXE); then \ @@\
  $(MV) program^^^$(_EXE) program^^~^^^$(_EXE); fi

/*
* NormalProgramTarget:
* Generate rules to compile and link the
 indicated program; since
* it does not use any default object files, it may be used for
* multiple programs in the same Jmakefile.
*/
#define NormalProgramTarget(program,sources,objects) @!\
++OBJECTS objects @!\
++SOURCES sources @!\
NormalObjectRule()    @!\
AllTarget(program)    @!\
       @!\
program: objects    @@\
 RemoveTargetProgram($@)  @@\
 $(CC) -o $@ objects $(JLDFLAGS) $(LIBS) @!\
```

```
/*
* SingleProgramTarget:
* Obsolete version of NormalProgramTarget that doesn't have
* deplibs.
*/
#define SingleProgramTarget(program,objects,libs)  \
NormalProgramTarget(program,objects,libs)

/*
* SimpleProgramTarget:
* Generate rules for compiling and linking programs that only have
* one C source file.  It should only be used in Jmakefiles that
* describe a single program.
*/
#define SimpleProgramTarget(program) @!\
NormalProgramTarget(program,program.c,program.o)



/*
* ComplexProgramTarget:
* Generate rules for compiling and linking the program specified by
* $(OBJS) and
 $(SRCS), installing the program and its man page, and
* generating dependencies.  It should only be used in Jmakefiles
* that describe a single program.
*/
#define ComplexProgramTarget(program) @!\
++OBJECTS $(OBJS) @!\
++SOURCES $(SRCS) @!\
NormalObjectRule()     @!\
AllTarget(program)     @!\
        @!\
program: $(OBJS)     @@\
 RemoveTargetProgram($@)   @@\
 $(CC) -o $@ $(OBJS) $(JLDFLAGS) $(LIBS) @!\
        @!\
InstallProgram(program,$(BINDIR)) @!\
InstallManPage(program,$(MANSRC)) @!\
DependTarget()      @!\
LintTarget()


/*
* ComplexProgramTarget_1:
* Generate rules for compiling and linking the program specified by
* $(OBJS1) and $(SRCS1), installing the program and its man page,
```

```
* and generating dependencies for it and any programs described by
* $(SRCS2) and $(SRCS3).  It should be used to build the primary
* program in Jmakefiles that describe multiple programs.
*/
#define ComplexProgramTarget_1(program) @!\
++OBJECTS $(OBJS1) @!\
++SOURCES $(SRCS1) @!\
NormalObjectRule()     @!\
AllTarget(program)     @!\
        @!\
program:
 $(OBJS1)     @@\
 RemoveTargetProgram($@)   @@\
 $(CC) -o $@ $(OBJS1) $(JLDFLAGS) $(LIBS) @!\
        @!\
InstallProgram(program,$(BINDIR)) @!\
InstallManPage(program,$(MANSRC)) @!\
        @!\
DependTarget()      @!\
LintTarget()


/*
* ComplexProgramTarget_2:
* Generate rules for compiling and linking the program specified by
* $(OBJS2) and $(SRCS2) and installing the program and man page.
* It should be used to build the second program in Jmakefiles
* describing more than one program.
*/
#define ComplexProgramTarget_2(program) @!\
++OBJECTS $(OBJS2) @!\
++SOURCES $(SRCS2) @!\
NormalObjectRule()     @!\
AllTarget(program)     @!\
        @!\
program: $(OBJS2)     @@\
 RemoveTargetProgram($@)   @@\
 $(CC) -o $@ $(OBJS2) $(JLDFLAGS) $(LIBS) @!\
        @!\
InstallProgram(program,$(BINDIR)) @!\
InstallManPage(program,$(MANSRC))


/*
* ComplexProgramTarget_3:
* Generate rules for compiling and linking the
 program specified by
* $(OBJS3) and $(SRCS3) and installing the program and man page.  It
```

```
* should be used to build the third program in Jmakefiles describing
* more than one program.
*/
#define ComplexProgramTarget_3(program) @!\
++OBJECTS $(OBJS3) @!\
++SOURCES $(SRCS3) @!\
NormalObjectRule()     @!\
AllTarget(program)     @!\
        @!\
program: $(OBJS3)     @@\
 RemoveTargetProgram($@)   @@\
 $(CC) -o $@ $(OBJS3) $(JLDFLAGS) $(LIBS) @!\
        @!\
InstallProgram(program,$(BINDIR)) @!\
InstallManPage(program,$(MANSRC))


/*
* ComplexShellManualTarget:
* Builds manual pages that are to be extracted from .SH files into
* .$manext files.
*/
#define ComplexShellManualTarget(manpages) @!\
++MANPAGE manpages @!\
|once _ShellManualRule_  @!\
|rule:.SH.$manext:   @!\
|rule: /bin/sh $<   @!\
|rule:      @!\
-once      @!\
AddSuffix(.SH)    @!\
AddSuffix(.$manext)   @!\
AllTarget(manpages)   @!\
       @!\
local_install.man::   @@\
 _MakeInstallDirIgnore($(MANSRC)) \     @@\
 for
 file in manpages; do \  @@\
  (set -x; $(INSTALL) -c -m 444 $$file \ @@\
   $(INSTALL_PREFIX)$(MANSRC)) || exit 1; \ @@\
 done     @!\
       @!\
local_deinstall.man::  @@\
 @case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
 for file in manpages; do \  @@\
  (set -x; $(RM) $(INSTALL_PREFIX)$(MANSRC)/$$file); \ @@\
 done
```

```
/*
* Initialize:
* Puts the line symbol = value in the initialization section of
* Makefile.SH (the one that is subject to parameter substitutions).
*/
#define Initialize(symbol,value) @!\
+symbol = value


/*
* InstallLibrary:
* Generate rules to install the indicated library.
*/
#define InstallLibrary(libname,dest) @!\
local_install:: lib^^libname.a  @@\
 _MakeInstallDirIgnore(dest) \ @@\
 $(INSTALL) -c -m 644 lib^^libname.a $(INSTALL_PREFIX)^^^dest  @@\
 $(RANLIB) dest/lib^^libname.a @@\
 chmod 444 dest/lib^^libnane.a @!\
        @!\
local_deinstall::     @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/lib^^libname.a


/*
* InstallSharedLibrary:
* Generate rules to install
 the shared library.
*/
#define InstallSharedLibrary(libname,rev,dest) @!\
local_install:: lib^^libname.so.rev  @@\
 _MakeInstallDirIgnore(dest) \  @@\
 $(INSTALL) -c -m 444 lib^^libname.so.rev $(INSTALL_PREFIX)^^^dest @!\
         @!\
local_deinstall::      @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/lib^^libname.so.rev


/*
* InstallSharedLibraryData:
* Generate rules to install the shared library data
*/
#define InstallSharedLibraryData(libname,rev,dest) @!\
local_install:: lib^^libname.sa.rev  @@\
 _MakeInstallDirIgnore(dest) \  @@\
 $(INSTALL) -c -m 444 lib^^libname.sa.rev $(INSTALL_PREFIX)^^^dest @!\
        @!\
local_deinstall::     @@\
```

```
 $(RM) $(INSTALL_PREFIX)^^^dest/lib^^libname.sa.rev


/*
* InstallLibraryAlias:
* Generate rules to create a link from one library name to another
* for the purposes of aliasing.
*/
#define InstallLibraryAlias(libname,alias,dest) @!\
local_install:: lib^^libname.a @@\
 $(RM) lib^^alias.a  @@\
 -(cd dest; $(LN) lib^^libname.a lib^^alias.a)
 @!\
      @!\
local_deinstall::   @@\
 $(RM) dest/lib^^alias.a


/*
* InstallLintLibrary:
* Generate rules to install the indicated lint library.
*/
#define InstallLintLibrary(libname,dest) @!\
install.ln:: llib-l^^libname.ln   @@\
 _MakeInstallDirIgnore(dest) \  @@\
 $(INSTALL) -c -m 444 llib-l^^libname.ln $(INSTALL_PREFIX)^^^dest @!\
      @!\
deinstall.ln::    @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/llib-l^^libname.ln


/*
* InstallManPageLong:
* Generate rules to install the indicated manual page, giving it an
* alternate name.  This is used for installing man pages whose base
* name without the .man suffix would normally be longer than 8
* characters (the limit for using source code control systems on
* files systems with short file names).
*/
#define InstallManPageLong(file,destdir,dest) @!\
local_install.man:: file.man   @@\
 _MakeInstallDirIgnore(destdir) \ @@\
 $(INSTALL) -c -m 444 file.man $(INSTALL_PREFIX)^^^destdir/dest.$(L) @!\
         @!\
local_deinstall.man::     @@\
 $(RM)
 $(INSTALL_PREFIX)^^^destdir/dest.$(L)  @!\
```

```
/*
* InstallManPage:
* Generate rules to install the indicated manual page.
*/
#define InstallManPage(file,dest) @!\
InstallManPageLong(file,dest,file)


/*
* InstallNonExec:
* Generate rules to install a data file using any special
*  install flags.
*/
#define InstallNonExec(file,dest) @!\
local_install:: file    @@\
 _MakeInstallDirIgnore(dest) \ @@\
 $(INSTALL) -c -m 444 file $(INSTALL_PREFIX)^^^dest @!\
        @!\
local_deinstall::     @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/file


/*
* InstallProgramWithFlags:
* Generate rules to install an executable program using given
* install flags.
*/
#define InstallProgramWithFlags(program,dest,flags) @!\
local_install:: program    @@\
 _MakeInstallDirIgnore(dest) \ @@\
 $(INSTALL) -c -s -m 555 flags program^^^$(_EXE) $(INSTALL_PREFIX)^^^dest @!\
        @!\
local_deinstall::     @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/program^^^$(_EXE)


/*
* InstallProgramNoStripWithFlags:
 * Generate rules to install an executable program using given
* install flags.
*/
#define InstallProgramNoStripWithFlags(program,dest,flags) @!\
local_install:: program    @@\
 _MakeInstallDirIgnore(dest) \ @@\
 $(INSTALL) -c -m 555 flags program^^^$(_EXE) $(INSTALL_PREFIX)^^^dest @!\
        @!\
local_deinstall::     @@\
```

```
 $(RM) $(INSTALL_PREFIX)^^^dest/program^^^$(_EXE)


/*
* InstallProgram:
* Generate rules to install an executable program using any special
* install flags set in $(INSTALLFLAGS).
*/
#define InstallProgram(program,dest) @!\
InstallProgramWithFlags(program,dest,^^)


/*
* InstallProgramNoStrip:
* Generate rules to install an executable program using any special
* install flags set in $(INSTALLFLAGS), but without stripping the
* executable from debugging symbols.
*/
#define InstallProgramNoStrip(program,dest) @!\
InstallProgramNoStripWithFlags(program,dest,^^)


/*
* InstallScriptWithFlags:
* Generate rules to install an executable script using given
* install
 flags.
*/
#define InstallScriptWithFlags(script,dest,flags) @!\
local_install:: script    @@\
 _MakeInstallDirIgnore(dest) \ @@\
 $(INSTALL) -c -m 555 flags script $(INSTALL_PREFIX)^^^dest @!\
        @!\
local_deinstall::     @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/script


/*
* InstallScript:
* Generate rules to install an executable script using any special
* install flags set in $(INSTALLFLAGS).
*/
#define InstallScript(script,dest) @!\
InstallScriptWithFlags(script,dest,^^)


/*
* InstallScripts:
```

```
* Generate rules to install all the scripts listed in the generated
*  $(SCRIPTS) and $(LSCRIPTS) macros.
*/
#define InstallScripts() @!\
|once _InstallScripts_  @!\
local_install:: $(SCRIPTS) $(LSCRIPTS)    @@\
 _MakeInstallDirIgnore($(SCRIPTDIR)) \  @@\
 for file in $(SCRIPTS) $(LSCRIPTS); do \ @@\
  (set -x; \ @@\
  $(INSTALL) -c -m 555 $$file $(INSTALL_PREFIX)$(SCRIPTDIR)) || \ @@\
  exit 1; \ @@\
 done     @!\
      @!\
local_deinstall::   @@\
 @for file in $(SCRIPTS)
 $(LSCRIPTS); do \ @@\
  case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
  (set -x; $(RM) $(INSTALL_PREFIX)$(SCRIPTDIR)/$$file); \ @@\
 done     @!\
-once

/*
* InstallManScripts:
* Generate rule to install/deinstall manual pages for scripts listed
* in the automatically generated $(SCRIPTS) macro.
*/
#define InstallManScripts() @!\
|once _InstallManScripts_ @!\
?NOMAN:|skip    @!\
local_install.man::   @@\
 _MakeInstallDirIgnore($(MANSRC)) \  @@\
 for file in $(SCRIPTS); do \   @@\
  if test -f $$file.man; then \  @@\
   (set -x; \      @@\
   $(INSTALL) -c -m 444 $$file.man \ @@\
    $(INSTALL_PREFIX)$(MANSRC)/$$file.$(L)) || \ @@\
    exit 1; \ @@\
  fi; \    @@\
 done     @!\
      @!\
local_deinstall.man::  @@\
 case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
 for file in $(SCRIPTS); do \ @@\
  (set -x; $(RM) $(INSTALL_PREFIX)$(MANSRC)/$$file.$(L)); \ @@\
 done     @!\
      @!\
-skip      @!\
-once
```

```
/*
* LinkFileList:
* Link a list of list of files from one place to another
 */
#define LinkFileList(step,list,dir,sub) @!\
step:: list       @@\
 @case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
 echo " cd" dir; cd dir; for i in list; do (set -x; $(LN) sub/$$i .); done


/*
* InstallMultipleDestFlags:
* Generate rules to install multiple files at once during a particular
* step in the build using a specific set of install flags.
*/
#define InstallMultipleDestFlags(step,list,dest,flags) @!\
step:: list       @@\
 _MakeInstallDirIgnore(dest) \ @@\
 for i in list; do \    @@\
  (set -x; $(INSTALL) -c flags \ @@\
   $$i $(INSTALL_PREFIX)^^^dest) || exit 1;\ @@\
 done

/*
* DeinstallMultipleDest:
* Generate rules to deinstall multiple files at once during a particular
* step in the build.
*/
#define DeinstallMultipleDest(step,list,dest) @!\
step::        @@\
 @case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
 for i in list; do \    @@\
  (set -x; $(RM) $(INSTALL_PREFIX)^^^dest/$$i); \ @@\
 done

/*
* InstallMultiple:
* Generate rules to install multiple
 files at once during the install
* step of the build using any install flags set in $(INSTALLFLAGS)
* and deinstall them.
*/
#define InstallMultiple(list,dest) @!\
InstallMultipleDestFlags(local_install,list,dest,$(INSTALLFLAGS)) @!\
DeinstallMultipleDest(local_deinstall,list,dest)
```

```
/*
* InstallMultipleFlags:
* Generate rules to install multiple files at once during the
* install step of the build using the given install flags.
*/
#define InstallMultipleFlags(list,dest,flags) @!\
InstallMultipleDestFlags(local_install,list,dest,flags) @!\
DeinstallMultipleDest(local_deinstall,list,dest)


/*
* InstallMultipleMan:
* Generate rules to install a variety of manual pages
* during the install.man step of the build.
*/
#define InstallMultipleMan(list,dest) @!\
InstallMultipleDestFlags(local_install.man,list,dest,$(INSTALLFLAGS)) @!\
DeinstallMultipleDest(local_deinstall.man,list,dest)


/*
* DependDependency:
* Generate rules to build the makedepend program.
*/
#define DependDependency()
   @!\
depend:: TOPDIR/mkdep    @!\
        @!\
TOPDIR/mkdep:      @!\
?TOP: @echo "You have to run Configure first."; exit 1 @!\
%TOP: @echo "You have to run Configure in $(TOP) first."; exit 1


/*
* DependTarget:
* Generate rules to compute dependencies for all files listed
* in $(SOURCES) (automatically generated macro).
*/
#define DependTarget()    @!\
+USRINC = $usrinc @!\
|once _DependTarget_    @!\
DependDependency()     @!\
        @!\
depend::       @@\
 ($(SED) '/^# DO NOT DELETE/q' Makefile && \ @@\
 $(MKDEP) $(SOURCES) | \   @@\
```

```
 $(SED) -e 's:/usr/lib[^ ]*::g; s:$(USRINC)[^ ]*::g; ' \ @@\
  -e '/: / b print' -e '$$ b print' -e 'H; d; n; : print' \ @@\
  -e 'x; s/\$$//; s/\\n//g; s/ ^^ */ /g; s/ :/:/;' -e '/: *$$/d' \ @@\
 ) > Makefile.new    @@\
 cp Makefile Makefile.bak  @@\
 cp Makefile.new Makefile  @@\
 $(RM) Makefile.new    @!\
        @!\
-once


/*
* CleanTarget:
* Generate rules to remove any garbage files.
*/
#define CleanTarget()    @!\
?SUBDIRS:clean:
 sub_clean local_clean    @!\
%SUBDIRS:clean: local_clean       @!\
?SUBDIRS:realclean: sub_realclean local_realclean @!\
%SUBDIRS:realclean: local_realclean     @!\
?SUBDIRS:clobber: sub_clobber local_clobber   @!\
%SUBDIRS:clobber: local_clobber      @!\
        @!\
local_clean::       @@\
 if test -f core; then $(RM) core; fi @@\
 $(RM) *~ *.o     @!\
        @!\
local_realclean:: local_clean  @!\
?TOP: $(RM) -r UU     @!\
        @!\
local_clobber:: local_realclean  @!\
%TOP: $(RM) Makefile config.sh  @!\
?TOP: $(RM) config.sh config.h  @!\
?TOP: $(RM) -r .config    @!\
?TOP: $(RM) Makefile    @!\


/*
* InstallTarget:
* Generate rules to recursively install files
*/
#define InstallTarget()           @!\
?SUBDIRS:install:: local_install sub_install     @!\
%SUBDIRS:install:: local_install        @!\
?SUBDIRS:install.man:: maybe_install.man sub_install.man  @!\
%SUBDIRS:install.man:: maybe_install.man      @!\
?SUBDIRS:deinstall:: sub_deinstall local_deinstall    @!\
```

```
%SUBDIRS:deinstall::
 local_deinstall       @!\
?SUBDIRS:deinstall.man:: sub_deinstall.man maybe_deinstall.man @!\
%SUBDIRS:deinstall.man:: maybe_deinstall.man     @!\
              @!\
?MANSRC:install.man-yes: local_install.man      @!\
install.man-no:             @!\
?MANSRC:deinstall.man-yes: local_deinstall.man     @!\
deinstall.man-no:            @!\


/*
* TagsTarget:
* Generate rules to compute tags files for C source code.
*/
#define TagsTarget()    @!\
tags::        @@\
 $(CTAGS) -w *.[ch]    @@\
 $(CTAGS) -xw *.[ch] > tags  @!\
        @!\
local_clobber::      @@\
 $(RM) tags



/*
* BuildMakefileSH:
* Generate rules to build a Makefile.SH from an Jmakefile and any
* special jmake flags.  This is generally done automatically by the
* template or by any special Jmakefiles.
* This function will simply touch Makefile.SH if no $(TOP)/.package
* exists, assuming the Jmakefile is not in a production environment.
*/
#define BuildMakefileSH(jmakeflags) @!\
Makefile.SH:
 Jmakefile     @@\
 -@if test -f $(TOP)/.package; then \ @@\
  if test -f Makefile.SH; then \ @@\
   echo " $(RM) Makefile.SH~; $(MV) Makefile.SH Makefile.SH~"; \ @@\
   $(RM) Makefile.SH~; $(MV) Makefile.SH Makefile.SH~; \ @@\
  fi; \      @@\
  echo " $(JMAKE) -DTOPDIR=$(TOP) -DCURDIR=$(CURRENT)" jmakeflags; \ @@\
  $(JMAKE) -DTOPDIR=$(TOP) -DCURDIR=$(CURRENT) jmakeflags; \ @@\
 else touch $@; fi


/*
* BuildMakefile:
```

```
* Generate rules to build a Makefile from a Makefile.SH.
*/
#define BuildMakefile() @!\
Makefile: Makefile.SH    @@\
 /bin/sh Makefile.SH


/*
* MakefileTarget:
* Generate rules to build a normal Makefile.
*/
#define MakefileTarget()  @!\
BuildMakefileSH(^^)    @!\
BuildMakefile()


/*
* NormalObjectRule:
* Generate make rule to build usual object files.
*/
#define NormalObjectRule()   @!\
|once _ObjectRule_     @!\
|rule:.c.o:       @!\
|rule: $(CC) -c $(JCFLAGS) $<  @!\
|rule:        @!\
-once

/*
* NormalLibraryObjectRule:
* Generate make rules to build
 "normal" objects.
*/
#define NormalLibraryObjectRule() @!\
|once _ObjectRule_     @!\
|rule:.c.o:       @!\
|rule: $(RM) $@      @!\
|rule: $(CC) -c $(JCFLAGS) $<  @!\
|rule:        @!\
-once

/*
* ProfiledLibraryObjectRule:
* Generate make rules to build both profiled and "normal" objects.
*/
#define ProfiledLibraryObjectRule() @!\
all::        @@\
 @if [ ! -d profiled ]; then mkdir profiled; fi @!\
        @!\
```

```
|rule:.c.o:       @!\
|rule: $(RM) $@ profiled/$@   @!\
|rule: $(CC) -pg -c $(JCFLAGS) $*.c @!\
|rule: $(MV) $*.o profiled/$*.o  @!\
|rule: $(CC) -c $(JCFLAGS) $*.c  @!\
|rule:       @!\
local_clean::       @@\
 -@if [ -d profiled ]; then echo " $(RM) profiled/?*.o"; \ @@\
  $(RM) profiled/?*.o; fi


/*
* DebuggedLibraryObjectRule:
* Generate make rules to build both debuggable and "normal"
* objects.
*/
#define DebuggedLibraryObjectRule()     @!\
all::        @@\
 @if [ ! -d debugger ]; then mkdir debugger; fi @!\
        @!\
|rule:.c.o:       @!\
|rule: $(RM) $@
 debugger/$@   @!\
|rule: $(CC) -g -c $(JCFLAGS) $*.c @!\
|rule: $(MV) $*.o debugger/$*.o  @!\
|rule: $(CC) -c $(JCFLAGS) $*.c  @!\
|rule:       @!\
local_clean::      @@\
 -@if [ -d debugger ]; then echo " $(RM) debugger/?*.o"; \ @@\
  $(RM) debugger/?*.o; fi


/*
* DebuggedAndProfiledLibraryOjbectRule:
* Generate make rules to build debuggable, profiled, and "normal"
* objects.
*/
#define DebuggedAndProfiledLibraryObjectRule() @!\
all::        @@\
 @if [ ! -d profiled ]; then mkdir profiled; fi @@\
 @if [ ! -d debugger ]; then mkdir debugger; fi @!\
        @!\
|rule:.c.o:       @!\
|rule: $(RM) $@ profiled/$@ debugger/$@ @!\
|rule: $(CC) -pg -c $(JCFLAGS) $*.c  @!\
|rule: $(MV) $*.o profiled/$*.o   @!\
|rule: $(CC) -g -c $(JCFLAGS) $*.c  @!\
|rule: $(MV) $*.o debugger/$*.o   @!\
```

```
|rule: $(CC) -c $(JCFLAGS) $*.c   @!\
|rule:        @!\
local_clean::       @@\
 -@if [ -d profiled ]; then echo " $(RM) profiled/?*.o"; \ @@\
  $(RM) profiled/?*.o; fi   @@\
 -@if [ -d debugger ];
 then echo " $(RM) debugger/?*.o"; \ @@\
  $(RM) debugger/?*.o; fi


/*
* SharedLibraryObjectRule:
* Generate make rules to build shared and "normal" object files.
*/
#define SharedLibraryObjectRule()     @!\
all::        @@\
 @if [ ! -d shared ]; then mkdir shared; fi  @!\
        @!\
|rule:.c.o:       @!\
|rule: $(RM) $@ shared/$@   @!\
|rule: $(CC) -pic -c $(SHAREDCODEDEF) $(SHLIBDEF) $(JCFLAGS) $*.c @!\
|rule: $(MV) $*.o shared/$*.o  @!\
|rule: $(CC) -c $(SHLIBDEF) $(JCFLAGS) $*.c    @!\
|rule:        @!\
local_clean::      @@\
 -@if [ -d shared ]; then echo " $(RM) shared/?*.o"; \  @@\
  $(RM) shared/?*.o; fi

/*
* SharedAndDebuggedLibraryObjectRule:
* Generate make rules to build shared, debuggable, and "normal"
* object files.
*/
#define SharedAndDebuggedLibraryObjectRule() @!\
all::          @@\
 @if [ ! -d shared ]; then mkdir shared; fi  @@\
 @if [ ! -d debugger ]; then mkdir debugger; fi @!\
          @!\
|rule:.c.o:         @!\
|rule: $(RM) $@ shared/$@ debugger/$@  @!\
|rule:
 $(CC) -pic -c $(SHAREDCODEDEF) $(SHLIBDEF) $(JCFLAGS) $*.c @!\
|rule: $(MV) $*.o shared/$*.o    @!\
|rule: $(CC) -g -c $(SHLIBDEF) $(JCFLAGS) $*.c @!\
|rule: $(MV) $*.o debugger/$*.o    @!\
|rule: $(CC) -c $(SHLIBDEF) $(JCFLAGS) $*.c @!\
|rule:          @!\
local_clean::         @@\
```

```
 -@if [ -d shared ]; then echo " $(RM) shared/?*.o"; \  @@\
  $(RM) shared/?*.o; fi    @@\
 -@if [ -d debugger ]; then echo " $(RM) debugger/?*.o"; \ @@\
  $(RM) debugger/?*.o; fi

/*
* SpecialSharedAndDebuggedObjectRule:
* Generate rules to compile a file with special flags and to make
* shared and debuggable versions.
*/
#define SpecialSharedAndDebuggedObjectRule(objs,depends,options) @!\
all::        @@\
 @if [ ! -d shared ]; then mkdir shared; fi  @@\
 @if [ ! -d debugger ]; then mkdir debugger; fi @!\
        @!\
objs: depends       @@\
 $(RM) $@ shared/$@ debugger/$@  @@\
 $(CC) -pic -c $(SHAREDCODEDEF) $(SHLIBDEF) $(JCFLAGS) options $*.c @@\
 $(MV) $*.o shared/$*.o    @@\
 $(CC)
 -g -c $(SHLIBDEF) $(JCFLAGS) options $*.c   @@\
 $(MV) $*.o debugger/$*.o   @@\
 $(CC) -c $(SHLIBDEF) $(JCFLAGS) options $*.c

/*
* SpecialSharedObjectRule:
* Generate rules to compile a file with special flags and to make
* shared and debuggable versions.
*/
#define SpecialSharedObjectRule(objs,depends,options)  @!\
all::        @@\
 @if [ ! -d shared ]; then mkdir shared; fi  @!\
        @!\
objs: depends       @@\
 $(RM) $@ shared/$@      @@\
 $(CC) -pic -c $(SHAREDCODEDEF) $(SHLIBDEF) $(JCFLAGS) options $*.c @@\
 $(MV) $*.o shared/$*.o    @@\
 $(CC) -c $(SHLIBDEF) $(JCFLAGS) options $*.c


/*
* SpecialObjectRule:
* Generate rules to compile a file with special flags.
*/
#define SpecialObjectRule(objs,depends,options)  @!\
objs: depends       @@\
 $(RM) $@       @@\
 $(CC) -c $(JCFLAGS) options $*.c
```

```
/*
* SpecialProfiledObjectRule:
* Generate rules to compile a file with special flags and to make a
* profiled version.
*/
#define SpecialProfiledObjectRule(objs,depends,options)   @!\
all::        @@\
 @if
 [ ! -d profiled ]; then mkdir profiled; fi @!\
        @!\
objs: depends       @@\
 $(RM) $@ profiled/$@    @@\
 $(CC) -pg -c $(JCFLAGS) options $*.c @@\
 $(MV) $*.o profiled/$*.o   @@\
 $(CC) -c $(JCFLAGS) options $*.c


/*
* SpecialDebuggedObjectRule:
* Generate rules to compile a file with special flags and to make a
* debuggable version.
*/
#define SpecialDebuggedObjectRule(objs,depends,options) @!\
all::        @@\
 @if [ ! -d debugger ]; then mkdir debugger; fi @!\
        @!\
objs: depends       @@\
 $(RM) $@ debugger/$@    @@\
 $(CC) -g -c $(JCFLAGS) options $*.c @@\
 $(MV) $*.o debugger/$*.o   @@\
 $(CC) -c $(JCFLAGS) options $*.c


/*
* SpecialDebuggedAndProfiledObjectRule:
* Generate rules to compile a file with special flags and to make
* debuggable and profiled versions.
*/
#define SpecialDebuggedAndProfiledObjectRule(objs,depends,options) @!\
all::        @@\
 @if [ ! -d profiled ]; then mkdir profiled; fi @@\
 @if [ ! -d
 debugger ]; then mkdir debugger; fi @!\
        @!\
objs: depends       @@\
 $(RM) $@ profiled/$@ debugger/$@ @@\
```

```
 $(CC) -pg -c $(JCFLAGS) options $*.c @@\
 $(MV) $*.o profiled/$*.o   @@\
 $(CC) -g -c $(JCFLAGS) options $*.c @@\
 $(MV) $*.o debugger/$*.o   @@\
 $(CC) -c $(JCFLAGS) options $*.c


/*
* NormalLibraryTarget:
* Generate rules to create a library. The 'srclist' and 'objlist'
* parameters are added to SOURCES and OBJECTS macros. The 'srclist'
* is not otherwise used by this rule, but is necessary for make depend.
*/
#define NormalLibraryTarget(libname,srclist,objlist) @!\
++OBJECTS objlist @!\
++SOURCES srclist @!\
NormalLibraryObjectRule()  @!\
AllTarget(lib^^libname.a)  @!\
        @!\
lib^^libname.a: objlist   @@\
 $(RM) $@     @@\
 $(AR) $@ objlist   @@\
 $(RANLIB) $@


/*
* NormalSharedLibraryTarget:
* Generate rules to create a shared library; build it into a
* different name so that the we don't hose people by having the
* library gone for long periods.
*/
#define
 NormalSharedLibraryTarget(libname,rev,solist) @!\
AllTarget(lib^^libname.so.rev) @!\
        @!\
lib^^libname.so.rev:  solist  @@\
 $(RM) $@~      @@\
 (cd shared; $(LD) -o ../$@~ -assert pure-text solist)  @@\
 $(RM) $@       @@\
 $(MV) $@~ $@

/*
* NormalSharedLibraryDataTarget:
* Generate rules to create shlib data file; build it into a
* different name so that the we don't hose people by having the
* library gone for long periods.
*/
#define NormalSharedLibraryDataTarget(libname,rev,salist) @!\
```

```
AllTarget(lib^^libname.sa.rev) @!\
        @!\
lib^^libname.sa.rev:  salist  @@\
 $(RM) $@      @@\
 $(AR) $@ salist     @@\
 $(RANLIB) $@


/*
* NormalLibraryTarget2:
* Generate rules to create a library in two steps.  This is used to
* create libraries with large numbers of files.
*/
#define NormalLibraryTarget2(libname,srclist,objlist1,objlist2) @!\
++SOURCES srclist @!\
++OBJECTS objlist1 @!\
++OBJECTS objlist2 @!\
NormalLibraryObjectRule()   @!\
AllTarget(lib^^libname.a)   @!\
        @!\
lib^^libname.a:
 objlist1 objlist2 @@\
 $(RM) $@      @@\
 $(AR) $@ objlist1    @@\
 $(AR) $@ objlist2    @@\
 $(RANLIB) $@


/*
* ProfiledLibraryTarget:
* Generate rules to create a profiled library.
*/
#define ProfiledLibraryTarget(libname,srclist,objlist) @!\
++SOURCES srclist @!\
++OBJECTS objlist @!\
AllTarget(lib^^libname^^_p.a)  @!\
        @!\
lib^^libname^^_p.a: objlist   @@\
 $(RM) $@      @@\
 cd profiled; $(AR) ../$@ objlist @@\
 $(RANLIB) $@


/*
* DebuggedLibraryTarget:
* Generate rules to create a debuggable library.
*/
#define DebuggedLibraryTarget(libname,srclist,objlist) @!\
```

```
++SOURCES srclist @!\
++OBJECTS objlist @!\
AllTarget(lib^^libname^^_d.a)  @!\
        @!\
lib^^libname^^_d.a: objlist   @@\
 $(RM) $@       @@\
 cd debugger; $(AR) ../$@ objlist @@\
 $(RANLIB) $@


/*
* AliasedLibraryTarget:
* Generate rules to link one library to another.
*/
#define AliasedLibraryTarget(libname,alias) @!\
AllTarget(lib^^alias.a)   @!\
        @!\
lib^^alias.a:
 lib^^libname.a @@\
 $(RM) $@     @@\
 $(LN) lib^^libname.a $@


/*
* PrelinkedRelocatableTarget:
* Generate rules to produce a relocatable object file instead of a
* library.
*/
#define PrelinkedRelocatableTarget(objname,objlist,libs) @!\
AllTarget(objname.o)    @!\
        @!\
objname.o: objlist     @@\
 $(RM) $@      @@\
 $(LD) $(JLDFLAGS) -r objlist -o $@ libs


/*
* NormalObjectTarget:
* Generate rules to produce a single object file.o from a file.c.
*/
#define NormalObjectTarget(file) @!\
++SOURCES file^^.c     @!\
AllTarget(file^^.o)     @!\
NormalObjectRule()

/*
* NormalRelocatableTarget:
* Generate rules to produce a relocatable object file instead of a
```

```
* library.
*/
#define NormalRelocatableTarget(objname,objlist) @!\
AllTarget(objname.o)    @!\
        @!\
objname.o: objlist     @@\
 $(RM) $@      @@\
 $(LD) $(JLDFLAGS) -r objlist -o $@


/*
* ProfiledRelocatableTarget:
* Generate rules to produce a profiled relocatable object file
* instead
 of a library.
*/
#define ProfiledRelocatableTarget(objname,objlist) @!\
AllTarget(objname^^_p.o)  @!\
        @!\
objname^^_p.o: objlist   @@\
 $(RM) $@     @@\
 $(LD) -X -r objlist -o $@


/*
* DebuggedRelocatableTarget:
* Generate rules to produce a debuggable relocatable object file
* instead of a library.
*/
#define DebuggedRelocatableTarget(objname,objlist) @!\
AllTarget(objname^^_d.o)  @!\
        @!\
objname^^_d.o: objlist   @@\
 $(RM) $@     @@\
 $(LD) -X -r objlist -o $@

/*
* LintLibraryTarget:
* Generate rules to create a lint library.  Note that the lint
* library is always forced to be newer than the library itself.
*/
#define LintLibraryTarget(libname,srclist) @!\
lintlib:: llib-l^^libname.ln @!\
        @!\
llib-l^^libname.ln: srclist  @@\
 $(RM) $@     @@\
 $(LINT) $(LINTLIBFLAG)^^libname $(LINTFLAGS) srclist
```

```
/*
* NormalLintTarget:
* Generate rules to lint a set of sources.
*/
#define NormalLintTarget(srclist) @!\
lint:        @@\
 $(LINT) $(LINTFLAGS) srclist
 $(LINTLIBS)


/*
* LintTarget:
* Generate rules to lint $(SOURCES) (automatically generated)
*/
#define LintTarget()   @!\
|once _LintTarget_    @!\
NormalLintTarget($(SOURCES)) @!\
-once


/*
* LinkSourceFile:
* Snag source file from some other directory
*/
#define LinkSourceFile(src,dir)  @!\
src:  dir/src   @@\
 $(RM) $@   @@\
 $(LN) $? $@   @!\


/*
* MakeSubincludesForBuild:
* Make includes in sub directories.
*/
#define MakeSubincludesForBuild(step,dir,srclist) @!\
step::  dir srclist        @@\
 @-(list=`echo srclist | sed -e 's/[^ ]*\///g'`; \  @@\
  set -x; cd dir; $(RM) $$list)   @@\
 @for i in srclist; do \      @@\
  (set -x; cd dir; $(LN) ../$$i .) || exit 1; \  @@\
 done          @!\
            @!\
MakeDirectories(dir,dir)      @!\
            @!\
local_realclean::         @@\
 @-(if [ -d dir ]; then \     @@\
  list=`echo srclist | sed -e 's/[^ ]*\///g'`; \  @@\
```

```
  set -x; cd dir; $(RM) $$list; fi)


/*
* CommonSubdirsRule:
* Rule for making $(TARGET) in
 every subdirectory, with $(VERB) as
* verbose message and $(FLAGS) as additional flags.
*/
#define CommonSubdirsRule(dirs) @!\
subdirs:       @@\
 @case '${MFLAGS}' in *[ik]*) set +e;; esac; \   @@\
 for i in dirs ;\     @@\
 do \        @@\
  (cd $$i ; echo $(VERB) "in $(DIR)$$i..."; \  @@\
   $(MAKE) $(MFLAGS) $(FLAGS) $(TARGET)) || exit 1; \ @@\
 done


/*
* NamedTargetSubdirsRule:
* Recursively make a series of steps in the specified directories.
*/
#define NamedTargetSubdirsRule(dirs,name,verb,flags) @!\
name::         @@\
 @case '${MFLAGS}' in *[ik]*) set +e;; esac; \  @@\
 for i in dirs ;\     @@\
 do \        @@\
  (cd $$i ; echo verb "in $(DIR)$$i..."; \ @@\
   $(MAKE) $(MFLAGS) flags name) || exit 1; \ @@\
 done


/*
* NamedTargetSubdirs:
* Recursively make a series of steps.
*/
#define NamedTargetSubdirs(name,verb,flags)  @!\
name::          @@\
 @$(MAKE) subdirs TARGET=name VERB=verb FLAGS=flags


/*
* NamedSubTargetSubdirs:
* Recursively make a series of steps,
 like NamedTargetSubdirs.
* However, the supplied "name" has "sub_" prefixed to it.
*/
```

```
#define NamedSubTargetSubdirs(name,verb,flags) @!\
sub_^^^name::          @@\
 @$(MAKE) subdirs TARGET=name VERB=verb FLAGS=flags

/*
* NamedDepthTargetSubdirs:
* Recursively make a series of steps. We first enter the
* subdirectories, then perform the local entries.
* The supplied "name" has "sub_" prefixed to it.
*/
#define NamedDepthTargetSubdirs(name,verb,flags)  @!\
sub_^^^name::      @@\
 @$(MAKE) subdirs TARGET=name VERB=verb FLAGS=flags @@\
 @echo "Back to $(CURRENT) for "name^^...


/*
* MakeSubdirs:
* Generate rules to do makes in the given subdirectories.
*/
#define MakeSubdirs() \
NamedTargetSubdirs(all,"Making all",^^)


/*
* DependDirs:
* Generate rules to recursively compute dependencies as part of the
* make depend step.
*/
#define DependDirs(dirs) \
NamedTargetSubdirsRule(dirs,depend,"Depending",^^)


/*
* DependSubdirs:
* Generate rules to recursively compute dependencies
 as part of the
* make depend step.
*/
#define DependSubdirs() \
DependDirs($(SUBDIRS))


/*
* InstallSubdirs:
* Generate rules to recursively install and deinstall programs and
* files.
*/
```

```
#define InstallSubdirs() \
NamedSubTargetSubdirs(install,"Installing",^^) @!\
NamedDepthTargetSubdirs(deinstall,"Deinstalling",^^)


/*
* InstallManSubdirs:
* Generate rules to recursively install and deinstall manual pages.
*/
#define InstallManSubdirs() \
NamedSubTargetSubdirs(install.man,"Installing man pages",^^) @!\
NamedDepthTargetSubdirs(deinstall.man,"Deinstalling man pages",^^)


/*
* IncludesSubdirs:
* Generate rules to recursively put include files in build
*/
#define IncludesSubdirs() \
NamedTargetSubdirs(includes,including,^^)


/*
* CleanSubdirs:
* Generate rules to recursively clean out garbage files.
*/
#define CleanSubdirs() \
NamedDepthTargetSubdirs(clean,"Cleaning",^^) @!\
NamedDepthTargetSubdirs(realclean,"Real cleaning",^^) @!\
NamedDepthTargetSubdirs(clobber,"Clobbering",^^)


/*
 * TagSubdirs:
* Generate rules to recursively create tags files.
*/
#define TagSubdirs(dirs) \
NamedTargetSubdirsRule(dirs,tag,"Tagging",^^)

/*
* MakeLintSubdirs:
* Generate rules to recursively lint directories as part of the
* named step.
*/
#define MakeLintSubdirs(dirs,target) \
NamedTargetSubdirsRule(dirs,target,"Linting",^^)
```

```
/*
* LintDirs:
* Generate rules to recursively lint directories as part of the
* make lint step.
*/
#define LintDirs(dirs) \
MakeLintSubdirs(dirs,lint)


/*
* LintSubdirs:
* Generate rules to recursively lint directories as part of the
* make lint step.
*/
#define LintSubdirs() \
LintDirs($(SUBDIRS))


/*
* MakeDirs:
* Creates a set of directories, even if some directories in the path
* do not already exist. There should be no '@!' at the end of the
* '#define' line, because this macro is used *inside* building rules.
*/
#define MakeDirs(dirs) \
 @case '${MFLAGS}' in *[i]*) set +e;; esac; \   @@\
 for dir in dirs;
 do \         @@\
  (set -x; test -d $$dir || $(INSTALLDIR) $$dir) || \ @@\
  exit 1; \  @@\
 done

/*
* _MakeInstallDirs:
* Creates a set of intall directories, even if some directories in the path
* do not already exist. There should be no '@!' at the end of the
* '#define' line, because this macro is used *inside* building rules.
*/
#define _MakeInstallDirs(dirs) \
 @case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
 for dir in dirs; do \       @@\
  _MakeInstallDir($$dir) \     @@\
 done

/*
* _MakeInstallDir:
* Internal macro to create a missing install directory.
*/
```

```
#define _MakeInstallDir(dir) \
 (set -x; test -d $(INSTALL_PREFIX)^^^dir || \ @@\
  $(INSTALLDIR) $(INSTALL_PREFIX)^^^dir);

/*
* _MakeInstallDirIgnore:
* Same as _MakeInstallDir but handles "make -i" as well.
*/
#define _MakeInstallDirIgnore(dir) \
 @case '${MFLAGS}' in *[i]*) set +e;; esac;  \ @@\
 _MakeInstallDir(dir)

/*
* _RmInstallDirs:
* Removes a set of intall directories.
* There should be no '@!'
 at the end of the '#define' line, because this
* macro is used *inside* building rules.
*/
#define _RmInstallDirs(dirs) \
 @case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
 for dir in dirs; do \       @@\
  (set -x; test -d $$dir && $(RM) -r $(INSTALL_PREFIX)$$dir); \ @@\
 done

/*
* MakeDirectories:
* Generate rules to create a hierarchy of directories.
*/
#define MakeDirectories(step,dirs)  @!\
step::         @@\
 MakeDirs(dirs)


/*
* MakeInstallDirectories:
* Generate a rule to create a set of directories at installation
* time (removed by deinstall).
*/
#define MakeInstallDirectories(dirs) @!\
local_install::    @@\
 _MakeInstallDirs(dirs) @!\
      @!\
local_deinstall::   @@\
 _RmInstallDirs(dirs)


/*
```

```
* MakeLintLibSubdirs:
* Generate rules to recursively create lint libraries.
*/
#define MakeLintLibSubdirs(dirs) @!\
MakeLintSubdirs(dirs,lintlib)


/*
* MakeMakeSubdirs:
* Generate rules to recursively recreate target as part of the
* specified step in the build.
  This assumes Makefile.SH has
* already been built (which is the case for a delivery), but does
* not rely on the existence of a Makefile.
*/
#define MakeMakeSubdirs(target) @!\
target::        @@\
 @case '${MFLAGS}' in *[ik]*) set +e;; esac; \ @@\
 for i in $(SUBDIRS);\    @@\
 do \        @@\
  echo "Making "target" in $(DIR)$$i..."; \ @@\
  (cd $$i || exit 1; \   @@\
  if test ! -f Makefile; then /bin/sh Makefile.SH; fi; \ @@\
  $(MAKE) $(MFLAGS) target) || exit 1;\ @@\
 done


/*
* MakeMakefilesSH:
* Generate rules to recursively recreate target as part of the
* specified step in the build.  If $(TOP) is set to an absolute
* path, don't prepend the ../ prefix.  This makes running things
* outside of the source tree to be much easier.
*/
#define MakeMakefilesSH()  @!\
Makefiles.SH:: Makefile.SH    @@\
 @case '${MFLAGS}' in *[ik]*) set +e;; esac; \ @@\
 for i in $(SUBDIRS);\     @@\
 do \        @@\
  case "$(DIR)$$i/" in \        @@\
  ^^*^^/^^*^^/^^*^^/^^*^^/) newtop=../../../..;;
 \ @@\
  ^^*^^/^^*^^/^^*^^/) newtop=../../..;; \    @@\
  ^^*^^/^^*^^/) newtop=../..;; \      @@\
  *^^/) newtop=..;; \         @@\
  esac; \            @@\
  case "$(TOP)" in \    @@\
  /^^*) newtop="$(TOP)" ;; \  @@\
```

```
  esac; \       @@\
  echo "Making Makefiles.SH in $(DIR)$$i..."; \ @@\
  (cd $$i || exit 1; \   @@\
   if test -f Jmakefile; then \ @@\
    $(MAKE) $(MFLAGS) -f ../Makefile \ @@\
     Makefile TOP=$$newtop CURRENT=$(DIR)$$i && \  @@\
    $(MAKE) $(MFLAGS) Makefiles.SH; \ @@\
   fi; \      @@\
  ) || exit 1; \ @@\
 done


/*
* MakefileSubdirs:
* Generate rules to create Makefiles.
*/
#define MakefileSubdirs()  @!\
MakeMakeSubdirs(Makefiles)  @!\
MakeMakefilesSH()


/*
* CppScriptTarget:
* Generate rules to create a shell script by running the input
* through cpp.
*/
#define CppScriptTarget(dst,src,defs,deplist) @!\
dst::  src deplist      @@\
 $(RM) $@       @@\
 $(CPP) defs <src | \    @@\
  sed -e '/^#  *[0-9][0-9]*  *.*$$/d' >$@  @@\
 chmod a+x $@


/*
 * MakeScriptFromCpp:
* Generate rules to create a script from a file with a
* .cpp suffix.
*/
#define MakeScriptFromCpp(name,defs) @!\
CppScriptTarget(name,name.cpp,defs,^^)


/*
* ShellScriptTargetExt:
* Generate rules to create and install a set of scripts from
* ext files (.sh and .SH are the most common examples). Man pages
* derived from the name of the scripts are also installed unless
```

```
* NoManPages() is specified.
*/
#define ShellScriptTargetExt(scripts,ext) @!\
++SCRIPTS scripts @!\
SimpleShellScriptTargetExt(scripts,ext)  @!\
InstallScripts()       @!\
InstallManScripts()


/*
* ShellScriptTarget:
* Generate rules to create and install a set of scripts from
* .SH files. Man pages derived from the name of the scripts are
* also installed unless NoManPages() is specified.
*/
#define ShellScriptTarget(scripts) @!\
ShellScriptTargetExt(scripts,.SH)


/*
* SimpleShellScriptTargetExt:
* Generate rules to create a set of scripts from ext files where
* ext is usually
 something like .sh or .SH, or whatever file
* extension you like..
*/
#define SimpleShellScriptTargetExt(scripts,ext) @!\
AllTarget(scripts)   @!\
      @!\
|expand s!scripts!   @!\
!s: !s^^ext     @@\
 /bin/sh !s^^ext   @!\
      @!\
-expand


/*
* SimpleShellScriptTarget:
* Generate rules to create a set of scripts from .SH files.
*/
#define SimpleShellScriptTarget(scripts) @!\
SimpleShellScriptTargetExt(scripts,.SH)


/*
* ShellScriptLongTarget:
* Generate rules to create a set of scripts from .SH files where
* the name of the generated file is different from the basename of
```

```
* the .SH file (when, for instance, the total length with the .SH
* extension would not leave enough space for RCS ,v extension).
*/
#define ShellScriptLongTarget(basename,scriptname) @!\
++LSCRIPTS scriptname @!\
AllTarget(scriptname)  @!\
      @!\
scriptname: basename^^.SH @@\
 /bin/sh basename^^.SH @!\
      @!\
InstallScripts()   @!\
?NOMAN:|skip    @!\
InstallManPageLong(basename,$(MANSRC),scriptname) @!\
-skip


/*
 * ForceTarget:
* The force target will force reconstruction of all the other
* targets which include .FORCE in their own dependencies.
*/
#define ForceTarget() @!\
|once _force_   @!\
.FORCE:     @!\
     @!\
-once


/*
* RemoteTargetDependency:
* A local target may rely on a remote dependency (e.g. a library)
* made in a separate directory. This rule explicits the dependency
* and forces a make of that dependency in the remote directory.
*/
#define RemoteTargetDependency(target,directory,dependency) @!\
RemoteDependency(directory,dependency) @!\
target: directory/^^^dependency @!\


/*
* RemoteDependency:
* Specify rules for making a remote dependency.
*/
#define RemoteDependency(directory,dependency) @!\
ForceTarget()       @!\
|once =directory/^^^dependency=   @!\
directory/^^^dependency: .FORCE   @@\
 @echo "Checking "^^^dependency" in "^^^directory"..." @@\
```

```
 cd ^^^directory; $(MAKE) ^^^dependency @@\
 @echo "Continuing in $(CURRENT)..." @!\
     @!\
-once

/*
 * SetSubdirs:
* Actually forces the definition of SUBDIRS, and lets the user
* specify what the sub-directories are.  This will be added to the
* customization part.
*/
#define SetSubdirs(subdirs) @!\
>SUBDIRS @!\
+SUBDIRS = subdirs


/*
* NoManPages:
* Actually forces the definition of NOMAN, which tells the jmake
* program to not generate rules for installing manual pages.
*/
#define NoManPages() @!\
>NOMAN


/*
* Expand:
* This powerful macro expands the `rule' given a `pattern'. It
* relies on a built-in command in jmake. The expansion is
* documented in the short notes file that comes with jmake and
* gives some insights on the internal syntax.
*/
#define Expand(rule, pattern) @!\
|expand pattern @!\
rule @!\
-expand


/*
* Lex and yacc stuff.
*/

/*
* YaccRule:
* This is the rule which is used to build a .c file from a .y file.
*/
#define YaccRule() @!\
AddSuffix(.y)     @!\
```

```
|once _YaccRule_    @!\
|rule:.y.c:      @!\
|rule: $(YACC) $(JYFLAGS)
 $< @!\
|rule: $(MV) y.tab.c $@   @!\
|rule:       @!\
-once

/*
* SimpleYaccTarget:
* Declare a yacc base.y file to be used in the building of the
* specified target program. The source file must be given without
* its final .y extension. The name of the .c and .o will be
* derived from the source file basename provided.
*/
#define SimpleYaccTarget(program,base) @!\
++SOURCES base.y @!\
++OBJECTS base.o @!\
YaccRule()    @!\
program: base.c   @!\
      @!\
local_realclean::  @@\
 $(RM) base.c  @!\


/*
* ComplexYaccTarget:
* Declare a yacc base.y file to be used in the building of the
* specified target program. The source file must be given without
* its final .y extension. The name of the .c and .o will be
* derived from the source file basename provided.
* The difference with SimpleYaccTarget is the identifying process
* where all the 'yy' are replaced by the specified prefix.
*/
#define ComplexYaccTarget(program,base,prefix) @!\
++SOURCES base.y @!\
++OBJECTS base.o
 @!\
program: base.c   @!\
      @!\
base.c: base.y     @@\
 $(YACC) $(JYFLAGS) base.y @@\
 $(SED) -e 's/yy\(.\)/prefix\1/g' < y.tab.c > base.c @@\
 $(SED) -e 's/yy\(.\)/prefix\1/g' < y.tab.h > base.h @@\
 $(RM) y.tab.c y.tab.h @!\
       @!\
local_realclean::  @@\
 $(RM) base.c  @!\
```

```
/*
* SimpleYaccInclude:
* Declare that program will need an include file produced by
* the output of yacc on base.y, which typically produces a file
* named y.tab.h, which will be renamed as base.h.
* The only problem is that the dependencies towards base.h have
* to be manually given in the Jmakefile.
*/
#define SimpleYaccInclude(base) @!\
base.h: base.c  @@\
 @if test -f y.tab.h; then \ @@\
  echo " $(MV) y.tab.h $@"; \ @@\
  $(MV) y.tab.h $@; \  @@\
 fi       @!\
        @!\
local_realclean::    @@\
 $(RM) base.h

/*
* ComplexYaccInclude:
* Declare that program will need an include file produced by
* the output of yacc on base.y, which typically produces a file
* named y.tab.h, which will
 be renamed as base.h.
* The difference with SimpleYaccInclude is the identifying process
* of the y.tab.h file where all 'yy' are renamed to prefix.
* The only problem is that the dependencies towards base.h have
* to be manually given in the Jmakefile.
*/
#define ComplexYaccInclude(base,prefix) @!\
base.h: base.c  @@\
 @if test -f y.tab.h; then \ @@\
  echo " $(SED) -e 's/yy\(.\)/prefix\1/g' < y.tab.h > base.h"; \ @@\
  $(SED) -e 's/yy\(.\)/prefix\1/g' < y.tab.h > base.h; \ @@\
  echo " $(RM) y.tab.h"; \ @@\
  $(RM) y.tab.h; \  @@\
 elif test -f base.h; then \ @@\
  echo " $(CP) base.h base.ht"; \ @@\
  $(CP) base.h base.ht; \ @@\
  echo " $(SED) -e 's/yy\(.\)/prefix\1/g' < base.ht > base.h"; \ @@\
  $(SED) -e 's/yy\(.\)/prefix\1/g' < base.ht > base.h; \ @@\
  echo " $(RM) base.ht"; \ @@\
  $(RM) base.ht; \  @@\
 fi       @!\
        @!\
local_realclean::    @@\
```

```
 $(RM) base.h


/*
* NormalYaccTarget:
* Declare a yacc base.y file which should produce a base.c and
* base.h file
 as derived from the output of yacc, to be used by
* the specified program.
*/
#define NormalYaccTarget(program,base) @!\
SimpleYaccTarget(program,base) @!\
SimpleYaccInclude(base)


/*
* IdentifiedYaccTarget:
* Declare a yacc base.y file which should produce a base.c and
* base.h file as derived from the output of yacc, to be used by
* the specified program. The specified prefix is used to remplace
* all the 'yy' in the generated file, for use when more than a
* single parser is needed in one executable.
*/
#define IdentifiedYaccTarget(program,base,prefix) @!\
ComplexYaccTarget(program,base,prefix) @!\
ComplexYaccInclude(base,prefix)


/*
* SimpleLexTarget:
* This declares a lex base.l file which is to be ran through
* lex to produce a base.c file.
*/
#define SimpleLexTarget(program,base) @!\
++SOURCES base.l @!\
++OBJECTS base.o @!\
|once _LexRule_     @!\
|rule:.l.c:      @!\
|rule: $(LEX) $(JLFLAGS) $<  @!\
|rule: $(MV) lex.yy.c $@  @!\
|rule:       @!\
-once       @!\
AddSuffix(.l)   @!\
program:
 base.c   @!\
      @!\
local_realclean::  @@\
 $(RM) base.c  @!\
```

```
/*
* IdentifiedLexTarget:
* This declares a lex base.l file which is to be ran through
* lex to produce a base.c file. The prefix is used to replace
* the 'yy', so that the lexical analyzer may be identified.
*/
#define IdentifiedLexTarget(program,base,prefix) @!\
++SOURCES base.l @!\
++OBJECTS base.o @!\
program: base.c   @!\
     @!\
base.c: base.l     @@\
 $(LEX) $(JLFLAGS) base.l @@\
 $(SED) -e 's/yy\(.\)/prefix\1/g' < lex.yy.c > base.c @@\
 $(RM) lex.yy.c    @!\
     @!\
local_realclean::  @@\
 $(RM) base.c  @!\


/*
* NormalLexDependTarget:
* Declare that program will need an include file produced by
* the output of lex on base.l, which typically produces a file
* named lex.yy.c which will be renamed as base.c. Besides, the
* lexical analyzer needs the file parser.h produced by running
* parser.y through yacc and renaming y.tab.h as parser.h.
*/
#define NormalLexDependTarget(program,base,parser)
 @!\
base.o: parser.h @!\
    @!\
SimpleLexTarget(program,base)


/*
* IdentifiedLexDependTarget:
* Declare that program will need an include file produced by
* the output of lex on base.l, which typically produces a file
* named lex.yy.c which will be renamed as base.c. Besides, the
* lexical analyzer needs the file parser.h produced by running
* parser.y through yacc and renaming y.tab.h as parser.h.
* The lexical analyzer is identified with the supplied prefix,
* which replaces the regular 'yy' prefix in the symbol names.
*/
#define IdentifiedLexDependTarget(program,base,parser,prefix) @!\
```

```
base.o: parser.h @!\
    @!\
IdentifiedLexTarget(program,base,prefix)


/*
* NormalParserTarget:
* Specify that program is using the lex/yacc combination to
* produce a parser. The lexic and parser parameters are the
* base name of the .l and .y file, respectively.
*/
#define NormalParserTarget(program,lexic,parser) @!\
NormalLexDependTarget(program,lexic,parser)
 @!\
NormalYaccTarget(program,parser)


/*
* IdentifiedParserTarget:
* Specify that program is using the lex/yacc combination to
* produce a parser. The lexic and parser parameters are the
* base name of the .l and .y file, respectively. The parser
* produced is identified via its prefix, which replaces all
* the normally supplied 'yy' prefix, hence making it possible
* to have multiple parsers in a single executable.
*/
#define IdentifiedParserTarget(program,lexic,parser,prefix) @!\
IdentifiedLexDependTarget(program,lexic,parser,prefix) @!\
IdentifiedYaccTarget(program,parser,prefix)
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/files/Jmake.rules
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethbyad.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_gethbyaddr: Inlibc
?MAKE: -pick add $@ %<
?S:d_gethbyaddr:
?S: This variable conditionally defines the HAS_GETHOSTBYADDR symbol, which
?S: indicates to the C program that the gethostbyaddr() routine is available
?S: to look up hosts by their IP addresses.
```

```
?S:.
?C:HAS_GETHOSTBYADDR:
?C: This symbol, if defined, indicates that the gethostbyaddr() routine is
?C: available to look up hosts by their IP addresses.
?C:.
?H:#$d_gethbyaddr HAS_GETHOSTBYADDR  /**/
?H:.
?LINT:set d_gethbyaddr
: see if gethostbyaddr exists
set gethostbyaddr d_gethbyaddr
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_gethbyad.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: setsid.C,v 3.0.1.1 1994/01/24 13:58:47 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* $Log: setsid.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:47  ram
* patch16: created
*
*/
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/setsid.C
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_poll.U,v $
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_langinfo: Inhdr Hasfield
?MAKE: -pick add $@ %<
```

```
?S:i_langinfo:
?S: This variable conditionally defines the I_LANGINFO symbol,
?S: and indicates whether a C program should include <langinfo.h>.
?S:.
?C:I_LANGINFO:
?C: This symbol, if defined, indicates that <langinfo.h> exists and
?C: should be included.
?C:.
?H:#$i_langinfo I_LANGINFO  /**/
?H:.
?LINT:set i_langinfo
: see if this is a langinfo.h system
set langinfo.h i_langinfo
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_langinfo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fdclose: Inlibc
?MAKE: -pick add $@ %<
?S:d_fdclose:
?S: This variable conditionally defines the HAS_FDCLOSE symbol, which
?S: indicates to the C program that the fdclose() routine is available.
?S:.
?C:HAS_FDCLOSE:
?C: This symbol, if defined, indicates that the fdclose routine is
?C: available to free a FILE structure without closing the underlying
?C: file descriptor.  This function appeared in FreeBSD 10.2.
?C:.
?H:#$d_fdclose HAS_FDCLOSE  /**/
?H:.
?LINT:set d_fdclose
: see if fdclose exists
set fdclose d_fdclose
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fdclose.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getservent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
```

```
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getservent_r getservent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getservent_r:
?S: This variable conditionally defines the HAS_GETSERVENT_R symbol,
?S: which indicates to the C program that the getservent_r()
?S: routine is available.
?S:.
?S:getservent_r_proto:
?S: This variable encodes the prototype of getservent_r.
?S: It is zero if d_getservent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getservent_r
?S: is defined.
?S:.
?C:HAS_GETSERVENT_R:
?C: This symbol, if defined, indicates that the getservent_r routine
?C: is
 available to getservent re-entrantly.
?C:.
?C:GETSERVENT_R_PROTO:
?C: This symbol encodes the prototype of getservent_r.
?C: It is zero if d_getservent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getservent_r
?C: is defined.
?C:.
?H:#$d_getservent_r HAS_GETSERVENT_R /**/
?H:#define GETSERVENT_R_PROTO $getservent_r_proto /**/
?H:.
?T:try hdrs d_getservent_r_proto
: see if getservent_r exists
set getservent_r d_getservent_r
eval $inlibc
case "$d_getservent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getservent_r_proto:$usethreads" in
 ":define") d_getservent_r_proto=define
  set d_getservent_r_proto getservent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getservent_r_proto" in
```

```
 define)
 case "$getservent_r_proto" in
 "|0) try='int getservent_r(struct servent*, char*, size_t, struct servent**);'
 ./protochk "$extern_C $try" $hdrs && getservent_r_proto=I_SBWR ;;
 esac
 case "$getservent_r_proto"
 in
 "|0) try='int getservent_r(struct servent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getservent_r_proto=I_SBI ;;
 esac
 case "$getservent_r_proto" in
 "|0) try='struct servent* getservent_r(struct servent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getservent_r_proto=S_SBI ;;
 esac
 case "$getservent_r_proto" in
 "|0) try='int getservent_r(struct servent*, struct servent_data*);'
 ./protochk "$extern_C $try" $hdrs && getservent_r_proto=I_SD ;;
 esac
 case "$getservent_r_proto" in
 "|0) d_getservent_r=undef
  getservent_r_proto=0
  echo "Disabling getservent_r, cannot determine prototype." >&4 ;;
 * ) case "$getservent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getservent_r_proto="REENTRANT_PROTO_$getservent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getservent_r has no prototype, not using it." >&4 ;;
  esac
  d_getservent_r=undef
  getservent_r_proto=0
  ;;
 esac
 ;;
*) getservent_r_proto=0
 ;;
esac
```

Found
 in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getservent_r.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_gmtime_r.U,v 0RCS:

```
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_gmtime_r gmtime_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_time i_systime extern_C
?MAKE: -pick add $@ %<
?S:d_gmtime_r:
?S: This variable conditionally defines the HAS_GMTIME_R symbol,
?S: which indicates to the C program that the gmtime_r()
?S: routine is available.
?S:.
?S:gmtime_r_proto:
?S: This variable encodes the prototype of gmtime_r.
?S: It is zero if d_gmtime_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gmtime_r
?S: is defined.
?S:.
?C:HAS_GMTIME_R:
?C: This symbol, if defined, indicates that the gmtime_r routine
?C: is available to gmtime re-entrantly.
?C:.
?C:GMTIME_R_PROTO:
?C: This
 symbol encodes the prototype of gmtime_r.
?C: It is zero if d_gmtime_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gmtime_r
?C: is defined.
?C:.
?H:#$d_gmtime_r HAS_GMTIME_R /**/
?H:#define GMTIME_R_PROTO $gmtime_r_proto /**/
?H:.
?T:try hdrs d_gmtime_r_proto
: see if gmtime_r exists
set gmtime_r d_gmtime_r
eval $inlibc
case "$d_gmtime_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_time time.h $i_systime sys/time.h"
 case "$d_gmtime_r_proto:$usethreads" in
 ":define") d_gmtime_r_proto=define
  set d_gmtime_r_proto gmtime_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
```

```
 case "$d_gmtime_r_proto" in
 define)
 case "$gmtime_r_proto" in
 "|0) try='struct tm* gmtime_r(const time_t*, struct tm*);'
 ./protochk "$extern_C $try" $hdrs && gmtime_r_proto=S_TS ;;
 esac
 case "$gmtime_r_proto" in
 "|0) try='int gmtime_r(const time_t*, struct tm*);'
 ./protochk "$extern_C $try" $hdrs && gmtime_r_proto=I_TS ;;
 esac
 case
 "$gmtime_r_proto" in
 "|0) d_gmtime_r=undef
  gmtime_r_proto=0
  echo "Disabling gmtime_r, cannot determine prototype." >&4 ;;
 * ) case "$gmtime_r_proto" in
  REENTRANT_PROTO*) ;;
  *) gmtime_r_proto="REENTRANT_PROTO_$gmtime_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "gmtime_r has no prototype, not using it." >&4 ;;
  esac
  d_gmtime_r=undef
  gmtime_r_proto=0
  ;;
 esac
 ;;
*) gmtime_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_gmtime_r.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: prefshell.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.

```
?RCS:
?RCS: $Log: prefshell.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:28:13  ram
?RCS: patch36: added SHELL temporary since metalint now sees ${SHELL}
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:11:47  ram
?RCS: patch10: non-portable var substitution was used (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:34  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:prefshell: cat package Getfile Oldconfig ksh csh bash
?MAKE: -pick add $@ %<
?S:prefshell:
?S: This
 variable contains the eventual value of the PREFSHELL symbol,
?S: which contains the full name of the preferred user shell on this
?S: system.  Usual values are /bin/csh, /bin/ksh, /bin/sh.
?S:.
?C:PREFSHELL:
?C: This symbol contains the full name of the preferred user shell on this
?C: system.  Usual values are /bin/csh, /bin/ksh, /bin/sh.
?C:.
?H:#define PREFSHELL "$prefshell"  /**/
?H:.
?T:SHELL
: find out which shell people like to use most
case "$prefshell" in
")
 case "$ksh $bash $csh" in
 */ksh*) dflt="$ksh" ;;
 */bash*) dflt="$bash" ;;
 */csh*) dflt="$csh" ;;
 *) dflt='/bin/sh' ;;
 esac
 ;;
*)  dflt="$prefshell";;
esac
?X: Some shells (Ultrix) do not understand ${SHELL:-/bin/sh}, sigh!
$cat <<EOM

Give the full path name of the shell most people like to use on your system.
This will be used by $package whenever the user wants to get a shell
escape (for instance) and is not necessarily the same as the shell you are
currently using (${SHELL-/bin/sh}).

EOM
fn=f/~
```

```
rp='Preferred
 shell to be used?'
. ./getfile
prefshell=$ans
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/prefshell.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_sresuproto: Hasproto i_unistd
?MAKE: -pick add $@ %<
?S:d_sresuproto:
?S: This variable conditionally defines the HAS_SETRESUID_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the setresuid() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_SETRESUID_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the setresuid() function.  Otherwise, it is up
?C: to the program to supply one.  Good guesses are
?C:  extern
 int setresuid(uid_t ruid, uid_t euid, uid_t suid);
?C:.
?H:#$d_sresuproto HAS_SETRESUID_PROTO /**/
?H:.
?LINT:set d_sresuproto
: see if prototype for setresuid is available
echo " "
set d_sresuproto setresuid $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sresuproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Warn.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extract.U,v $
?X:
?X: This unit produces a shell script which can be run in order to emit
?X: an important warning to the user, which will be remembered and shown
?X: at the end of the Configure run as well.
?X:
?X: A typical use would be:
?X:
?X:  ./warn <<EOM
?X:  Problem with your C compiler: can't turn debugging on.
?X:  EOM
?X:
?X: or:
?X:
?X:  ./warn "Problem with your C compiler: can't turn debugging on."
?X:
?X: Which will both display to the user:
?X:
?X:  ***
 WARNING:
?X:  *** Problem with your C compiler: can't turn debugging on.
?X:  ***
?X:
?MAKE:Warn: startsh eunicefix
?MAKE: -pick add $@ %<
?F:./warn
: script used to emit important warnings
cat >warn <<EOS
$startsh
?X: Read the whole warning message from stdin into a temporary file
?X: when no argument was supplied.
if test \$# -gt 0; then
 echo "\$@" >msg
else
 cat >msg
fi
?X: Emit the warning, prefixing all lines with '*** '
echo "*** WARNING:" >&4
```

```
sed -e 's/^/*** /' <msg >&4
echo "*** " >&4
?X: Save the warning in the logs, which will be shown again at the end
cat msg >>config.msg
echo " " >>config.msg
rm -f msg
EOS
chmod +x warn
$eunicefix warn
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Warn.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getnetbyname_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getnetbyname_r getnetbyname_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getnetbyname_r:
?S: This variable conditionally defines the HAS_GETNETBYNAME_R symbol,
?S: which indicates to the C program that the getnetbyname_r()
?S: routine is available.
?S:.
?S:getnetbyname_r_proto:
?S: This variable encodes the prototype of getnetbyname_r.
?S: It is zero if d_getnetbyname_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getnetbyname_r
?S: is defined.
?S:.
?C:HAS_GETNETBYNAME_R:
?C: This symbol, if defined, indicates that
 the getnetbyname_r routine
?C: is available to getnetbyname re-entrantly.
?C:.
?C:GETNETBYNAME_R_PROTO:
?C: This symbol encodes the prototype of getnetbyname_r.
?C: It is zero if d_getnetbyname_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getnetbyname_r
?C: is defined.
?C:.
```

```
?H:#$d_getnetbyname_r HAS_GETNETBYNAME_R /**/
?H:#define GETNETBYNAME_R_PROTO $getnetbyname_r_proto /**/
?H:.
?T:try hdrs d_getnetbyname_r_proto
: see if getnetbyname_r exists
set getnetbyname_r d_getnetbyname_r
eval $inlibc
case "$d_getnetbyname_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getnetbyname_r_proto:$usethreads" in
 ":define") d_getnetbyname_r_proto=define
  set d_getnetbyname_r_proto getnetbyname_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getnetbyname_r_proto" in
 define)
 case "$getnetbyname_r_proto" in
 "|0) try='int getnetbyname_r(const char*, struct netent*, char*, size_t, struct netent**, int*);'
 ./protochk "$extern_C
 $try" $hdrs && getnetbyname_r_proto=I_CSBWRE ;;
 esac
 case "$getnetbyname_r_proto" in
 "|0) try='int getnetbyname_r(const char*, struct netent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getnetbyname_r_proto=I_CSBI ;;
 esac
 case "$getnetbyname_r_proto" in
 "|0) try='struct netent* getnetbyname_r(const char*, struct netent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getnetbyname_r_proto=S_CSBI ;;
 esac
 case "$getnetbyname_r_proto" in
 "|0) try='int getnetbyname_r(const char*, struct netent*, struct netent_data*);'
 ./protochk "$extern_C $try" $hdrs && getnetbyname_r_proto=I_CSD ;;
 esac
 case "$getnetbyname_r_proto" in
 "|0) d_getnetbyname_r=undef
  getnetbyname_r_proto=0
  echo "Disabling getnetbyname_r, cannot determine prototype." >&4 ;;
 * ) case "$getnetbyname_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getnetbyname_r_proto="REENTRANT_PROTO_$getnetbyname_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo
```

```
 "getnetbyname_r has no prototype, not using it." >&4 ;;
  esac
  d_getnetbyname_r=undef
  getnetbyname_r_proto=0
  ;;
 esac
 ;;
*) getnetbyname_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getnetbyname_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: bin.U,v $
?RCS: Revision 3.0.1.4  1995/09/25  09:15:32  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:32:40  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:05:28  ram
?RCS: patch32: now uses installation prefix
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  15:56:51  ram
?RCS: patch10: made prompting more explicit (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18
  12:05:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:bin binexp installbin: Prefixit Getfile Oldconfig afs cat test
?MAKE: -pick add $@ %<
?Y:TOP
?S:bin:
?S: This variable holds the name of the directory in which the user wants
```

```
?S: to put publicly executable images for the package in question.  It
?S: is most often a local directory such as /usr/local/bin. Programs using
?S: this variable must be prepared to deal with ~name substitution.
?S:.
?S:binexp:
?S: This is the same as the bin variable, but is filename expanded at
?S: configuration time, for use in your makefiles.
?S:.
?S:installbin:
?S: This variable is the same as binexp unless AFS is running in which case
?S: the user is explicitly prompted for it. This variable should always
?S: be used in your makefiles for maximum portability.
?S:.
?C:BIN:
?C: This symbol holds the path of the bin directory where the package will
?C: be installed. Program must be prepared to deal with ~name substitution.
?C:.
?C:BIN_EXP:
?C: This
 symbol is the filename expanded version of the BIN symbol, for
?C: programs that do not want to deal with that at run-time.
?C:.
?H:#define BIN "$bin" /**/
?H:#define BIN_EXP "$binexp" /**/
?H:.
?D:bin='/usr/local/bin'
: determine where public executables go
echo " "
set dflt bin bin
eval $prefixit
fn=d~
rp='Pathname where the public executables will reside?'
. ./getfile
if $test "X$ansexp" != "X$binexp"; then
 installbin=''
fi
bin="$ans"
binexp="$ansexp"
if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
executables reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installbin" in
 '') dflt=`echo $binexp | sed 's#^/afs/#/afs/.#'`;;
```

```
 *) dflt="$installbin";;
 esac
 fn=de~
 rp='Where will public executables be installed?'
 . ./getfile
 installbin="$ans"
else
 installbin="$binexp"
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/bin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_systimes.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_systimes.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_systimes: Inhdr
?MAKE: -pick add $@ %<
?S:i_systimes:
?S: This variable conditionally defines the I_SYS_TIMES symbol, and indicates
?S: whether a C program should include <sys/times.h>.
?S:.
?C:I_SYS_TIMES (I_SYSTIMES):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/times.h>.
?C:.
?H:#$i_systimes I_SYS_TIMES  /**/
?H:.
?LINT:set
 i_systimes
: see if this is a sys/times.h system
set sys/times.h i_systimes
eval $inhdr
```

Found in path(s):

* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_systimes.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_atolf: Inlibc
?MAKE: -pick add $@ %<
?S:d_atolf:
?S: This variable conditionally defines the HAS_ATOLF symbol, which
?S: indicates to the C program that the atolf() routine is available.
?S:.
?C:HAS_ATOLF:
?C: This symbol, if defined, indicates that the atolf routine is
?C: available to convert strings into long doubles.
?C:.
?H:#$d_atolf HAS_ATOLF  /**/
?H:.
?LINT:set d_atolf
: see if atolf exists
set atolf d_atolf
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/atolf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_tcgtpgrp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_tcgtpgrp.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:12:08  ram
?RCS: patch32: created by ADO
```

```
?RCS:
?MAKE:d_tcgetpgrp: Inlibc
?MAKE: -pick add $@ %<
?S:d_tcgetpgrp:
?S: This variable conditionally defines the HAS_TCGETPGRP symbol, which
?S: indicates to the C program that the tcgetpgrp() routine is available.
?S: to get foreground process group ID.
?S:.
?C:HAS_TCGETPGRP
 :
?C: This symbol, if defined, indicates that the tcgetpgrp routine is
?C: available to get foreground process group ID.
?C:.
?H:#$d_tcgetpgrp HAS_TCGETPGRP  /**/
?H:.
?LINT:set d_tcgetpgrp
: see if tcgetpgrp exists
set tcgetpgrp d_tcgetpgrp
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_tcgtpgrp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_scandir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_scandir.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:06:35  ram
?RCS: patch16: created
?RCS:
?MAKE:d_scandir: Inlibc
?MAKE: -pick add $@ %<
?S:d_scandir:
?S: This variable conditionally defines HAS_SCANDIR if scandir() is
?S: available to scan a directory.
?S:.
?C:HAS_SCANDIR:
?C: This symbol, if defined, indicates that the scandir routine is
?C: available to scan a directory.
```

```
?C:.
?H:#$d_scandir HAS_SCANDIR /**/
?H:.
?LINT:set d_scandir
: see if
 scandir exists
set scandir d_scandir
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_scandir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: selecttype.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:20:09  ram
?RCS: patch61: always include <sys/select.h> when available for test
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  14:14:06  ram
?RCS: patch56: removed harmful spaces in assignment
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:06:31  ram
?RCS: patch30: created by ADO
?RCS:
?MAKE:selecttype: cat +cc +ccflags rm Oldconfig Myread \
 d_fd_set d_select d_socket i_systime
 i_sysselct
?MAKE: -pick add $@ %<
?S:selecttype:
?S: This variable holds the type used for the 2nd, 3rd, and 4th
?S: arguments to select.  Usually, this is 'fd_set *', if HAS_FD_SET
?S: is defined, and 'int *' otherwise.  This is only useful if you
?S: have select(), naturally.
?S:.
?C:Select_fd_set_t:
?C: This symbol holds the type used for the 2nd, 3rd, and 4th
```

```
?C: arguments to select.  Usually, this is 'fd_set *', if HAS_FD_SET
?C: is defined, and 'int *' otherwise.  This is only useful if you
?C: have select(), of course.
?C:.
?H:#define Select_fd_set_t  $selecttype /**/
?H:.
?T:xxx yyy
: check for type of arguments to select.  This will only really
: work if the system supports prototypes and provides one for
: select.
case "$d_select" in
$define)
 : Make initial guess
 case "$selecttype" in
 "|' ')
  case "$d_fd_set" in
  $define) xxx='fd_set *' ;;
  *) xxx='int *' ;;
  esac
  ;;
 *)  xxx="$selecttype"
  ;;
 esac
 : backup guess
 case "$xxx" in
 'fd_set *') yyy='int *'
 ;;
 'int *') yyy='fd_set *' ;;
 esac

 $cat <<EOM

Checking to see what type of arguments are expected by select().
EOM
 $cat >try.c <<EOCP
#$i_systime I_SYS_TIME
#$i_sysselct I_SYS_SELECT
#$d_socket HAS_SOCKET
#include <sys/types.h>
#ifdef HAS_SOCKET
#include <sys/socket.h> /* Might include <sys/bsdtypes.h> */
#endif
#ifdef I_SYS_TIME
#include <sys/time.h>
#endif
#ifdef I_SYS_SELECT
#include <sys/select.h>
#endif
```

```
int main()
{
 int width;
 Select_fd_set_t readfds;
 Select_fd_set_t writefds;
 Select_fd_set_t exceptfds;
 struct timeval timeout;
 select(width, readfds, writefds, exceptfds, &timeout);
 exit(0);
}
EOCP
 if $cc $ccflags -c -DSelect_fd_set_t="$xxx" try.c >/dev/null 2>&1 ; then
  selecttype="$xxx"
  echo "Your system uses $xxx for the arguments to select." >&4
 elif $cc $ccflags -c -DSelect_fd_set_t="$yyy" try.c >/dev/null 2>&1 ; then
  selecttype="$yyy"
  echo "Your system uses $yyy for the arguments to select." >&4
 else
  rp='What is the type for the 2nd, 3rd, and 4th arguments
 to select?'
  dflt="$xxx"
  . ./myread
  selecttype="$ans"
 fi
 $rm -f try.[co]
 ;;
*) selecttype='int *'
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/selecttype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_poll.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_poll: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_poll:
?S: This variable conditionally defines the I_POLL symbol, and indicates
?S: whether a C program should include <poll.h>.
?S:.
```

```
?C:I_POLL:
?C: This symbol, if defined, indicates that <poll.h> exists and
?C: should be included. (see also HAS_POLL)
?C:.
?H:#$i_poll I_POLL  /**/
?H:.
?LINT:set i_poll
: see if this is a poll.h system
set poll.h i_poll
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_poll.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpgrp2.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getpgrp2.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getpgrp2: Inlibc
?MAKE: -pick add $@ %<
?S:d_getpgrp2:
?S: This variable conditionally defines the HAS_GETPGRP2 symbol, which
?S: indicates to the C program that the getpgrp2() (as in DG/UX) routine
?S: is available to get the current process group.
?S:.
?C:HAS_GETPGRP2 (GETPGRP2):
?C: This symbol, if defined, indicates that the
 getpgrp2() (as in DG/UX)
?C: routine is available to get the current process group.
?C:.
?H:#$d_getpgrp2 HAS_GETPGRP2  /**/
?H:.
?LINT:set d_getpgrp2
: see if getpgrp2 exists
set getpgrp2 d_getpgrp2
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getpgrp2.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Filexp.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  15:52:53  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: added HOME to the ?T: line since metalint now checks ${HOME}
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:03:00  ram
?RCS: patch23: made sure error status from csh is propagated (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:53  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which will expand filenames beginning
?X:
 with tildes.  The script is deleted at the end of Configure.
?X:
?MAKE:Filexp: startsh sed test expr eunicefix
?MAKE: -pick add $@ %<
?F:./filexp
?T:HOME LOGDIR dir me name failed
: set up shell script to do ~ expansion
cat >filexp <<EOSS
$startsh
: expand filename
?X:
?X: The case entries below escape the ~ as some shells have shown expansion
?X: of the ~ during here-doc processing.
?X:
case "\$1" in
\~/*|\~)
 echo \$1 | $sed "s|~|\${HOME-\$LOGDIR}|"
 ;;
```

```
\~*)
 if $test -f /bin/csh; then
  /bin/csh -f -c "glob \$1"
  failed=\$?
  echo ""
  exit \$failed
 else
  name=\`$expr x\$1 : '..\([^/]*\)'\`
  dir=\`$sed -n -e "/^\${name}:/{s/^[^:]*:[^:]*:[^:]*:[^:]*:[^:]*:\([^:]*\).*'"\$'"/\1/" -e p -e q -e '}' </etc/passwd\`
  if $test ! -d "\$dir"; then
   me=\`basename \$0\`
   echo "\$me: can't locate home directory for: \$name" >&2
   exit 1
  fi
  case "\$1" in
  */*)
   echo \$dir/\`$expr x\$1 : '..[^/]*/\(.*\)'\`
   ;;
  *)
   echo \$dir
   ;;
  esac
 fi
 ;;
*)
 echo \$1
 ;;
esac
EOSS
chmod
 +x filexp
$eunicefix filexp
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Filexp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_preadv.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: d_preadv.U,v $
?RCS:
?MAKE:d_preadv: Inlibc
?MAKE: -pick add $@ %<
?S:d_preadv:
?S: This variable conditionally defines the HAS_PREADV symbol, which
?S: indicates to the C program that the preadv() routine is available.
?S:.
?C:HAS_PREADV :
?C: This symbol, if defined, indicates that the preadv routine is
?C: available to perform vectored reads on a file descriptor at a
?C: given offset.
?C:.
?H:#$d_preadv HAS_PREADV  /**/
?H:.
?LINT:set d_preadv
:
 see if preadv exists
set preadv d_preadv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_preadv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_mntent.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_mntent: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_mntent:
?S: This variable conditionally defines the I_MNTENT symbol, and indicates
?S: whether a C program should include <mntent.h>.
?S:.
?C:I_MNTENT:
?C: This symbol, if defined, indicates that <mntent.h> exists and
?C: should be included.
?C:.
?H:#$i_mntent I_MNTENT  /**/
?H:.
?LINT:set i_mntent
: see if this is a mntent.h system
set mntent.h i_mntent
```

```
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_mntent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_wctomb.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_wctomb.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:20:43  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_wctomb: Inlibc
?MAKE: -pick add $@ %<
?S:d_wctomb:
?S: This variable conditionally defines the HAS_WCTOMB symbol, which
?S: indicates to the C program that the wctomb() routine is available
?S: to convert a wide character to a multibyte.
?S:.
?C:HAS_WCTOMB (WCTOMB):
?C: This
 symbol, if defined, indicates that the wctomb routine is available
?C: to convert a wide character to a multibyte.
?C:.
?H:#$d_wctomb HAS_WCTOMB  /**/
?H:.
?LINT:set d_wctomb
: see if wctomb exists
set wctomb d_wctomb
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_wctomb.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtoq: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtoq:
?S: This variable conditionally defines the HAS_STRTOQ symbol, which
?S: indicates to the C program that the strtoq() routine is available.
?S:.
?C:HAS_STRTOQ:
?C: This symbol, if defined, indicates that the strtoq routine is
?C: available to convert strings to long longs (quads).
?C:.
?H:#$d_strtoq HAS_STRTOQ  /**/
?H:.
?LINT:set d_strtoq
: see if strtoq exists
set strtoq d_strtoq
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strtoq.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libs.U,v 3.0.1.6 1997/02/28 16:09:11 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: libs.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  16:09:11  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.5  1995/07/25  14:12:05  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  16:24:22  ram
?RCS: patch36: removed old broken thislib/thatlib processing (ADO)
?RCS:
```

```
?RCS: Revision 3.0.1.3  1994/06/20  07:05:44  ram
?RCS: patch30: code cleanup with if/elif by ADO and RAM
?RCS: patch30:
 undone patch23 for libswanted default setting
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:08:45  ram
?RCS: patch23: now includes ordered default libswanted variable (ADO)
?RCS: patch23: major cleanup for library lookups (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:02:31  ram
?RCS: patch6: added default for libs
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libs ignore_versioned_solibs libsfound libsfiles libsdirs libspath: \
 test cat Myread Oldconfig Loc libpth package xlibpth so _a \
 usesocks sed uselongdouble usequadmath
?MAKE: -pick add $@ %<
?S:libs:
?S: This variable holds the additional libraries we want to use.
?S: It is up to the Makefile to deal with it.  The list can be empty.
?S:.
?S:libsfound:
?S: This variable holds the full pathnames of the libraries
?S: we found and accepted.
?S:.
?S:libsfiles:
?S: This variable holds the filenames aka basenames of the libraries
?S: we found and accepted.
?S:.
?S:libsdirs:
?S: This
 variable holds the directory names aka dirnames of the libraries
?S: we found and accepted, duplicates are removed.
?S:.
?S:libspath:
?S: This variable holds the directory names probed for libraries.
?S:.
?S:ignore_versioned_solibs:
?S: This variable should be non-empty if non-versioned shared
?S: libraries (libfoo.so.x.y) are to be ignored (because they
?S: cannot be linked against).
?S:.
?T:xxx yyy thislib thisdir libswanted libstyle
?D:libs="
?X:
?X: This order is chosen so that libraries  -lndir, -ldir, -lucb, -lbsd,
```

```
?X: -lBSD, -lPW, and -lx only get used if there are unresolved
?X: routines at link time.  Usually, these are backwards compatibility
?X: libraries, and may not be as reliable as the standard c library.
?X:
?X: The -lsocket -linet -lnsl order has been reported to be necessary
?X: for at least one SVR4 implementation.
?X: -lc must proceed -lucb or -lbsd for most Solaris applications.
?X: -lc_s proceeds -lc so we pick up the shared library version,
 if
?X: it is available.
?X:
?X: The ordering of c, posix, and cposix is a guess and almost
?X: certainly wrong on about half of all systems.
?X:
?X: Set proper libswanted in your private Myinit.U if needed.
?X:
?X:: default ordered library list
?X:libswanted='net socket inet bind nsl nm sdbm gdbm ndbm dbm malloc dl'
?X:libswanted="$libswanted dld sun m c_s c posix cposix ndir dir ucb"
?X:libswanted="$libswanted bsd BSD PW x"
?X:
?INIT:: default library list
?INIT:libswanted="
?INIT:: some systems want to use only the non-versioned libso:s
?INIT:ignore_versioned_solibs="
?LINT:extern usecbacktrace
?LINT:extern libscheck
?LINT:extern p
?LINT:use uselongdouble
: Looking for optional libraries
echo " "
echo "Checking for optional libraries..." >&4
case "$libs" in
' '|'') dflt='';;
*) dflt="$libs";;
esac
case "$libswanted" in
'') libswanted='c_s';;
esac
?X: libsocks has nasty naming scheme.
?X: This does not work if somebody wants SOCKS 4.
case "$usesocks" in
"$define") libswanted="$libswanted
 socks5 socks5_sh" ;;
esac
case "$usecbacktrace" in
"$define") libswanted="$libswanted bfd" ;;
esac
```

```
case "$usequadmath" in
"$define") libswanted="$libswanted quadmath" ;;
esac
libsfound="
libsfiles="
libsdirs="
libspath="
for thisdir in $libpth $xlibpth; do
 test -d $thisdir && libspath="$libspath $thisdir"
done
for thislib in $libswanted; do
 for thisdir in $libspath; do
    xxx="
    if $test ! -f "$xxx" -a "X$ignore_versioned_solibs" = "X"; then
  xxx=`ls $thisdir/lib$thislib.$so.[0-9] 2>/dev/null|sed -n '$p'`
        $test -f "$xxx" && eval $libscheck
  $test -f "$xxx" && libstyle=shared
  xxx=`ls $thisdir/lib$thislib.[0-9].$so 2>/dev/null|sed -n '$p'`
        $test -f "$xxx" && eval $libscheck
  $test -f "$xxx" && libstyle=shared
    fi
    if test ! -f "$xxx"; then
  xxx=$thisdir/lib$thislib.$so
        $test -f "$xxx" && eval $libscheck
  $test -f "$xxx" && libstyle=shared
    fi
    if test ! -f "$xxx"; then
  xxx=$thisdir/lib$thislib$_a
        $test -f "$xxx"
 && eval $libscheck
  $test -f "$xxx" && libstyle=static
    fi
    if test ! -f "$xxx"; then
  xxx=$thisdir/$thislib$_a
        $test -f "$xxx" && eval $libscheck
  $test -f "$xxx" && libstyle=static
    fi
    if test ! -f "$xxx"; then
  xxx=$thisdir/lib${thislib}_s$_a
        $test -f "$xxx" && eval $libscheck
  $test -f "$xxx" && libstyle=static
  $test -f "$xxx" && thislib=${thislib}_s
    fi
    if test ! -f "$xxx"; then
  xxx=$thisdir/Slib$thislib$_a
        $test -f "$xxx" && eval $libscheck
  $test -f "$xxx" && libstyle=static
    fi
```

```
    if $test -f "$xxx"; then
  case "$libstyle" in
  shared) echo "Found -l$thislib (shared)." ;;
  static) echo "Found -l$thislib." ;;
  *)      echo "Found -l$thislib ($libstyle)." ;;
  esac
  case " $dflt " in
  *"-l$thislib "*);;
  *) dflt="$dflt -l$thislib"
                libsfound="$libsfound $xxx"
                yyy=`basename $xxx`
                libsfiles="$libsfiles $yyy"
                yyy=`echo $xxx|$sed -e
 "s%/$yyy\\$%%"`
                case " $libsdirs " in
                *" $yyy "*) ;;
                *) libsdirs="$libsdirs $yyy" ;;
                esac
    ;;
  esac
  break
    fi
 done
 if $test ! -f "$xxx"; then
    echo "No -l$thislib."
 fi
done
set X $dflt
shift
dflt="$*"
case "$libs" in
") dflt="$dflt";;
*) dflt="$libs";;
esac
case "$dflt" in
' '|") dflt='none';;
esac

$cat <<EOM

In order to compile $package on your machine, a number of libraries
are usually needed.  Include any other special libraries here as well.
Say "none" for none.  The default list is almost always right.
EOM

echo " "
rp="What libraries to use?"
. ./myread
```

```
case "$ans" in
none) libs=' ';;
*) libs="$ans";;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/libs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethent.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_gethent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_gethent: Inlibc
?MAKE: -pick add $@ %<
?S:d_gethent:
?S: This variable conditionally defines HAS_GETHOSTENT if gethostent() is
?S: available to look up host names in some data base or another.
?S:.
?C:HAS_GETHOSTENT:
?C: This symbol, if defined, indicates that the gethostent() routine is
?C: available to look up host names in some
 data base or another.
?C:.
?H:#$d_gethent HAS_GETHOSTENT  /**/
?H:.
?LINT:set d_gethent
: see if gethostent exists
set gethostent d_gethent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_gethent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_syscallproto: Hasproto i_unistd
?MAKE: -pick add $@ %<
?S:d_syscallproto:
?S: This variable conditionally defines the HAS_SYSCALL_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the syscall() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_SYSCALL_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the syscall() function.  Otherwise, it is up
?C: to the program to supply one.  Good guesses are
?C:  extern
 int syscall(int,  ...);
?C:  extern int syscall(long, ...);
?C:.
?H:#$d_syscallproto HAS_SYSCALL_PROTO /**/
?H:.
?LINT:set d_syscallproto
: see if prototype for syscall is available
echo " "
set d_syscallproto syscall $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_syscallproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: shm_for.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: shm_for.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:28:37  ram
?RCS: patch36: call ./Cppsym explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:shm_for shm_att shm_lim: Cppsym Myread ipc uname
?MAKE: -pick add $@ %<
?S:shm_for:
?S: This variable tells us the type of machine we're expecting the
?S: shared memory code to run on.  The value is available to C
 programs
?S: in the C_SHM_FOR manifest.
?S:.
?S:shm_att:
?S: This variable tells us where a shared memory segment should be
?S: attached.  Good values are HIGH, LOW, and ZERO.
?S:.
?S:shm_lim:
?S: This variable tells us if shared memory attached HIGH should
?S: have an upper limit.
?S:.
?X: ----------------------------------------------------------
?X: It's a potential lose to define anything beginning with SHM...
?X: At least we can think that S_ stands for "String version of ..." -- HMS
?X: ----------------------------------------------------------
?C:S_SHM_FOR ~ %<:
?C: This symbol identifies what we chose for the target system's
?C: default shared memory configuration parameters.
?C:.
?C:S_SHM_ATT ~ %<:
?C: This symbol holds the default "place" to attach shared memory.
?C: Values are "HIGH", "ZERO", and "LOW".
?C:.
?C:S_SHM_LIM ~ %<:
?C: This symbol holds the default upper bound address limit if shared
?C: memory is attached HIGH.  If zero, there is no upper limit.
?C:.
?H:?%<:#ifdef
 SERVE_SHM
?H:?%<:#define S_SHM_FOR "$shm_for"
?H:?%<:#define S_SHM_ATT "$shm_att"
?H:?%<:#define S_SHM_LIM "$shm_lim"
?H:?%<:#endif
?H:.
?W:%<:S_SHM_FOR S_SHM_ATT S_SHM_LIM
: see how to attach shared memory
```

```
echo " "
echo "Deciding how to attach shared memory..." >&4

case "$ipc" in
shm)
 shm_for='Default case'
 shm_att='HIGH'
 shm_lim='0x0'
 if ./Cppsym tower32 tower32_600; then
  echo "NCR Towers are usually normal..."
  : echo "Oh, an NCR Tower."
  : This works for the 600
  shm_for='NCR Tower 32'
  shm_att='LOW'
 else
  case "$uname" in
  */uname)
   case "`uname -m`" in
   ACS??68*)
    echo "Oh, an Altos 3068."
    shm_for='Altos 3068:'
    shm_lim='0x800000'
    ;;
    esac
    ;;
  *)
   echo "Looks normal to me..."
   ;;
  esac
 fi

 dflt="$shm_for"
 rp='Description of shared memory configuration?'
 . ./myread
 shm_for="$ans"

 dflt="$shm_att"
 rp='Where should shared memory be attached?'
 . ./myread
 shm_att="$ans"

 case "$shm_att" in
 HIGH)
  dflt="$shm_lim"
  rp='What is
 the upper address limit for shared memory?'
  . ./myread
  shm_lim="$ans"
```

```
  ;;
 *)
  shm_lim=''
  ;;
 esac
 ;;

*)
 echo "but you aren't using shared memory so I won't bother." >&4
 shm_for='NOT CONFIGURED'
 shm_att='NONE'
 shm_lim='-1'
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/shm_for.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:usedefaultstrict: Setvar Myread
?MAKE: -pick add $@ %<
?LINT:set usedefaultstrict
?S:usedefaultstrict:
?S: This setting provides a mechanism for perl developers to enable
?S: strict by default. These defaults do not apply when perl is run
?S: via -e or -E.
?S:.
?C:USE_STRICT_BY_DEFAULT:
?C: This symbol, if defined, enables additional defaults.
?C: At this time it only enables implicit strict by default.
?C:.
?H:#$usedefaultstrict USE_STRICT_BY_DEFAULT /* use strict by default */
?H:.
: Ask about strict by default.
case "$usedefaultstrict" in
  $define|true|[Yy]*)
    dflt="y"
    ;;
  *)
    dflt="n"
    ;;
  esac

cat <<EOM
```

```
EXPERIMENTAL: Perl can now be built with strict on by default when not
invoked with -e or -E. This is a diagnostic tool
 for development.

Unless you are familiar with this feature, you should probably answer 'no'.

EOM

rp='Would you like to build perl with strict enabled by default?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*)   val="$undef"  ;;
esac
set usedefaultstrict
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/usedefaultstrict.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_localeconv_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_localeconv_l:
?S: This variable conditionally defines the HAS_LOCALECONV_L symbol, which
?S: indicates to the C program that the localeconv_l() routine is available.
?S:.
?C:HAS_LOCALECONV_L:
?C: This symbol, if defined, indicates that the localeconv_l routine is
?C: available to query certain information about a locale.
?C:.
?H:#$d_localeconv_l HAS_LOCALECONV_L  /**/
?H:.
?LINT:set d_localeconv_l
: see if localeconv_l exists
set localeconv_l d_localeconv_l
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_localeconv_l.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: uidtype.U,v $
?RCS: Revision 3.0.1.3  1994/08/29  16:33:25  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20  07:09:36  ram
?RCS: patch30: comment for uidtype referred to the obsoleted symbol
?RCS:
?RCS: Revision 3.0.1.1  1994/05/13  15:28:27  ram
?RCS: patch27: made conform to its gidtype.U companion
?RCS: patch27: question now explicitly mentions getuid()
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:56  ram
?RCS: Baseline for dist
 3.0 netwide release.
?RCS:
?MAKE:uidtype: Myread Typedef Findhdr
?MAKE: -pick add $@ %<
?S:uidtype:
?S: This variable defines Uid_t to be something like uid_t, int,
?S: ushort, or whatever type is used to declare user ids in the kernel.
?S:.
?C:Uid_t (UIDTYPE):
?C: This symbol holds the type used to declare user ids in the kernel.
?C: It can be int, ushort, uid_t, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Uid_t $uidtype  /* UID type */
?H:.
?T:xxx
: see what type uids are declared as in the kernel
set uid_t uidtype xxx stdio.h sys/types.h
eval $typedef
case "$uidtype" in
xxx)
```

```
 xxx=`./findhdr sys/user.h`
 set `grep '_ruid;' "$xxx" 2>/dev/null` unsigned short
 case $1 in
 unsigned) dflt="$1 $2" ;;
 *) dflt="$1" ;;
 esac
 ;;
*) dflt="$uidtype";;
esac
echo " "
rp="What is the type for user ids returned by getuid()?"
. ./myread
uidtype="$ans"
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/uidtype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_wcstombs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_wcstombs.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_wcstombs: Inlibc
?MAKE: -pick add $@ %<
?S:d_wcstombs:
?S: This variable conditionally defines the HAS_WCSTOMBS symbol, which
?S: indicates to the C program that the wcstombs() routine is available
?S: to convert wide character strings to multibyte strings.
?S:.
?C:HAS_WCSTOMBS:
?C: This symbol, if defined, indicates that the wcstombs
 routine is
?C: available to convert wide character strings to multibyte strings.
?C:.
?H:#$d_wcstombs HAS_WCSTOMBS /**/
?H:.
?LINT:set d_wcstombs
```

```
: see if wcstombs exists
set wcstombs d_wcstombs
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_wcstombs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_tmpnam_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_tmpnam_r tmpnam_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads extern_C
?MAKE: -pick add $@ %<
?S:d_tmpnam_r:
?S: This variable conditionally defines the HAS_TMPNAM_R symbol,
?S: which indicates to the C program that the tmpnam_r()
?S: routine is available.
?S:.
?S:tmpnam_r_proto:
?S: This variable encodes the prototype of tmpnam_r.
?S: It is zero if d_tmpnam_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_tmpnam_r
?S: is defined.
?S:.
?C:HAS_TMPNAM_R:
?C: This symbol, if defined, indicates that the tmpnam_r routine
?C: is available to tmpnam re-entrantly.
?C:.
?C:TMPNAM_R_PROTO:
?C: This
 symbol encodes the prototype of tmpnam_r.
?C: It is zero if d_tmpnam_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_tmpnam_r
?C: is defined.
?C:.
?H:#$d_tmpnam_r HAS_TMPNAM_R /**/
?H:#define TMPNAM_R_PROTO $tmpnam_r_proto /**/
?H:.
?T:try hdrs d_tmpnam_r_proto
: see if tmpnam_r exists
set tmpnam_r d_tmpnam_r
```

```
eval $inlibc
case "$d_tmpnam_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h "
 case "$d_tmpnam_r_proto:$usethreads" in
 ":define") d_tmpnam_r_proto=define
  set d_tmpnam_r_proto tmpnam_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_tmpnam_r_proto" in
 define)
 case "$tmpnam_r_proto" in
 "|0) try='char* tmpnam_r(char*);'
 ./protochk "$extern_C $try" $hdrs && tmpnam_r_proto=B_B ;;
 esac
 case "$tmpnam_r_proto" in
 "|0) d_tmpnam_r=undef
  tmpnam_r_proto=0
  echo "Disabling tmpnam_r, cannot determine prototype." >&4 ;;
 * ) case "$tmpnam_r_proto" in
  REENTRANT_PROTO*) ;;
  *) tmpnam_r_proto="REENTRANT_PROTO_$tmpnam_r_proto"
 ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "tmpnam_r has no prototype, not using it." >&4 ;;
  esac
  d_tmpnam_r=undef
  tmpnam_r_proto=0
  ;;
 esac
 ;;
*) tmpnam_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_tmpnam_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_union_semun.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
```

```
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_union_semun.U,v $
?RCS:
?MAKE:d_union_semun d_semctl_semun d_semctl_semid_ds: Compile Setvar Myread run \
 cat rm_try d_sem
?MAKE: -pick add $@ %<
?S:d_union_semun:
?S: This variable conditionally defines HAS_UNION_SEMUN if the
?S: union semun is defined by including <sys/sem.h>.
?S:.
?S:d_semctl_semun:
?S: This variable conditionally defines USE_SEMCTL_SEMUN, which
?S: indicates that union semun is to be used for semctl IPC_STAT.
?S:.
?S:d_semctl_semid_ds:
?S: This variable conditionally defines USE_SEMCTL_SEMID_DS, which
?S: indicates that struct semid_ds * is to be used for semctl IPC_STAT.
?S:.
?C:HAS_UNION_SEMUN:
?C: This symbol, if defined, indicates that the union semun
 is
?C: defined by including <sys/sem.h>.  If not, the user code
?C: probably needs to define it as:
?C:  union semun {
?C:     int val;
?C:     struct semid_ds *buf;
?C:     unsigned short *array;
?C:  }
?C:.
?C:USE_SEMCTL_SEMUN:
?C: This symbol, if defined, indicates that union semun is
?C: used for semctl IPC_STAT.
?C:.
?C:USE_SEMCTL_SEMID_DS:
?C: This symbol, if defined, indicates that struct semid_ds * is
?C: used for semctl IPC_STAT.
?C:.
?H:#$d_union_semun HAS_UNION_SEMUN /**/
?H:#$d_semctl_semun USE_SEMCTL_SEMUN /**/
?H:#$d_semctl_semid_ds USE_SEMCTL_SEMID_DS /**/
?H:.
?T:xxx also
?F:!try !tryh.h
?LINT: set d_union_semun d_semctl_semun d_semctl_semid_ds
: see whether sys/sem.h defines union semun
```

```
echo " "
$cat > try.c <<'END'
#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/sem.h>
int main () { union semun semun; semun.buf = 0; }
END
set try
if eval $compile; then
   echo "You have union semun in <sys/sem.h>." >&4
   val="$define"
else
   echo "You do not have union
 semun in <sys/sem.h>." >&4
   val="$undef"
fi
$rm_try
set d_union_semun
eval $setvar

: see how to do semctl IPC_STAT
case "$d_sem" in
$define)
   echo " "
?X: use tryh.h instead of try.h because $rm_try cleans up try.*
   $cat > tryh.h <<END
#ifndef S_IRUSR
#   ifdef S_IREAD
# define S_IRUSR S_IREAD
# define S_IWUSR S_IWRITE
# define S_IXUSR S_IEXEC
#   else
# define S_IRUSR 0400
# define S_IWUSR 0200
# define S_IXUSR 0100
#   endif
#   define S_IRGRP (S_IRUSR>>3)
#   define S_IWGRP (S_IWUSR>>3)
#   define S_IXGRP (S_IXUSR>>3)
#   define S_IROTH (S_IRUSR>>6)
#   define S_IWOTH (S_IWUSR>>6)
#   define S_IXOTH (S_IXUSR>>6)
#endif
#ifndef S_IRWXU
#   define S_IRWXU (S_IRUSR|S_IWUSR|S_IXUSR)
#   define S_IRWXG (S_IRGRP|S_IWGRP|S_IXGRP)
#   define S_IRWXO (S_IROTH|S_IWOTH|S_IXOTH)
#endif
```

```
END
   : see whether semctl IPC_STAT can use union semun
   case "$d_semctl_semun" in
   ")
     val="$undef"
     $cat > try.c <<END
#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/sem.h>
#include
 <sys/stat.h>
#include <stdio.h>
#include <errno.h>
#include "tryh.h"
#ifndef errno
extern int errno;
#endif
#$d_union_semun HAS_UNION_SEMUN
int main() {
   union semun
#ifndef HAS_UNION_SEMUN
   {
 int val;
 struct semid_ds *buf;
 unsigned short *array;
   }
#endif
   arg;
   int sem, st;

#if defined(IPC_PRIVATE) && defined(S_IRWXU) && defined(S_IRWXG) && defined(S_IRWXO) &&
defined(IPC_CREAT)
   sem = semget(IPC_PRIVATE, 1, S_IRWXU|S_IRWXG|S_IRWXO|IPC_CREAT);
   if (sem > -1) {
 struct semid_ds argbuf;
 arg.buf = &argbuf;
# ifdef IPC_STAT
 st = semctl(sem, 0, IPC_STAT, arg);
 if (st == 0)
     printf("semun\n");
 else
# endif /* IPC_STAT */
     printf("semctl IPC_STAT failed: errno = %d\n", errno);
# ifdef IPC_RMID
 if (semctl(sem, 0, IPC_RMID, arg) != 0)
# endif /* IPC_RMID */
     printf("semctl IPC_RMID failed: errno = %d\n", errno);
   } else
```

```
#endif /* IPC_PRIVATE && ... */
 printf("semget failed: errno = %d\n", errno);
 return 0;
}
END
    set try

    if eval $compile; then
  xxx=`$run ./try`
        case "$xxx" in
        semun) val="$define" ;;
        esac
    fi
    $rm_try
    set d_semctl_semun
    eval $setvar
    ;;
  esac
  case "$d_semctl_semun" in
  $define)
      echo "You can use union semun for semctl IPC_STAT." >&4
 also='also'
      ;;
  *)  echo "You cannot use union semun for semctl IPC_STAT." >&4
 also=''
      ;;
  esac

  : see whether semctl IPC_STAT can use struct semid_ds pointer
  case "$d_semctl_semid_ds" in
  '')
    val="$undef"
    $cat > try.c <<'END'
#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/sem.h>
#include <sys/stat.h>
#include "tryh.h"
#include <stdio.h>
#include <errno.h>
#ifndef errno
extern int errno;
#endif
int main() {
  union semun
#ifndef HAS_UNION_SEMUN
  {
 int val;
```

```
 struct semid_ds *buf;
 unsigned short *array;
   }
#endif
   arg;
   struct semid_ds argbuf;
   int sem, st;

#if defined(IPC_PRIVATE) && defined(S_IRWXU) &&
 defined(S_IRWXG) &&  defined(S_IRWXO) && defined(IPC_CREAT)
   sem = semget(IPC_PRIVATE, 1, S_IRWXU|S_IRWXG|S_IRWXO|IPC_CREAT);
   if (sem > -1) {
 arg.buf = &argbuf;
# ifdef IPC_STAT
 st = semctl(sem, 0, IPC_STAT, arg);
 if (st == 0)
     printf("semid_ds\n");
 else
# endif /* IPC_STAT */
     printf("semctl IPC_STAT failed: errno = %d\n", errno);
# ifdef IPC_RMID
 if (semctl(sem, 0, IPC_RMID, arg) != 0)
# endif /* IPC_RMID */
     printf("semctl IPC_RMID failed: errno = %d\n", errno);
   } else
#endif /* IPC_PRIVATE && ... */
 printf("semget failed: errno = %d\n", errno);

   return 0;
}
END
     set try
     if eval $compile; then
         xxx=`$run ./try`
         case "$xxx" in
         semid_ds) val="$define" ;;
         esac
     fi
     $rm_try
     set d_semctl_semid_ds
     eval $setvar
     ;;
   esac
   case "$d_semctl_semid_ds" in
   $define)
       echo "You can $also use struct semid_ds* for semctl IPC_STAT." >&4
       ;;
   *)  echo "You cannot use
```

```
 struct semid_ds* for semctl IPC_STAT." >&4
      ;;
   esac
   ;;
*)  val="$undef"

   # We do not have the full sem*(2) library, so assume we can not
   # use either.

   set d_semctl_semun
   eval $setvar

   set d_semctl_semid_ds
   eval $setvar
   ;;
esac
$rm_try tryh.h
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_union_semun.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_eofpipe.U,v 3.0.1.1 1994/10/29 16:12:40 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_eofpipe.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:12:40  ram
?RCS: patch36: call ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_eofpipe: Compile cat rm Oldconfig Guess echo n c
?MAKE: -pick add $@ %<
?S:d_eofpipe:
?S: This variable conditionally defines the EOFPIPE symbol, which
?S: indicates to the C program that select will correctly detect
 the EOF
?S: condition when pipe is closed from the other end.
?S:.
```

```
?C:EOFPIPE:
?C: This symbol, if defined, indicates that EOF condition will be detected
?C: by the reader of the pipe when it is closed by the writing process.
?C: That is, a select() call on that file descriptor will not block when
?C: only an EOF remains (typical behavior for BSD systems).
?C:.
?H:#$d_eofpipe EOFPIPE  /**/
?H:.
?F:!mpipe
: see if pipe correctly gives the EOF condition
echo " "
case "$d_eofpipe" in
")
 echo "Let's see if your pipes return EOF to select() upon closing..." >&4
 $cat >pipe.c <<'EOP'
int main()
{
 int pd[2];
 int mask;

 pipe(pd);
 if (0 == fork()) {
  close(pd[0]);
  close(pd[1]);
  exit(0);
 }

 close(pd[1]);
 mask = 1 << pd[0];
 alarm(2);
 select(32, &mask, (int *) 0, (int *) 0, (char *) 0);
 if (0 == read(pd[0], &mask, 1))
  exit(0);

 exit(1);
}
EOP
 set pipe
 if eval $compile_ok; then
?X: Use a script to avoid the possible 'alarm call' message
  echo "./pipe || exit 1" > mpipe
  chmod
 +x mpipe
  ./mpipe >/dev/null 2>&1
  case $? in
  0) d_eofpipe="$define";;
  *) d_eofpipe="$undef";;
  esac
```

```
 else
  echo "(The test program did not compile correctly -- Guessing.)"
  if ./bsd; then
   d_eofpipe="$define"
  else
   d_eofpipe="$undef"
  fi
 fi
 case "$d_eofpipe" in
 "$define") echo "Yes, they do.";;
 *) echo "No, they don't! (sigh)";;
 esac
 ;;
*)
 $echo $n "Your pipes $c"
 case "$d_eofpipe" in
 "$define") echo "allow select() to see EOF upon closing.";;
 *) echo "won't let select() see EOF on closing.";;
 esac
 ;;
esac
$rm -f *pipe* core
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_eofpipe.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: usedtrace.U,v $
?RCS:
?RCS: Copyright (c) 2008 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: usedtrace.U,v $
?RCS:
?MAKE:usedtrace dtrace: Myread Oldconfig Setvar Getfile test
?MAKE: -pick add $@ %<
?Y:TOP
?S:usedtrace:
?S: This variable indicates whether we are compiling with dtrace
?S: support. See also dtrace.
?S:.
?S:dtrace:
?S: This variable holds the location of the dtrace executable.
?S:.
?C:USE_DTRACE:
```

```
?C: This symbol, if defined, indicates that Perl should
?C: be built with support for DTrace.
?C:.
?H:#$usedtrace USE_DTRACE  /**/
?H:.
?T:dflt_dtrace
?LINT:set usedtrace
?LINT:set dtrace
: DTrace support
dflt_dtrace='/usr/sbin/dtrace'
$test -x /usr/bin/dtrace && dflt_dtrace='/usr/bin/dtrace'

cat <<EOM

Perl can be built to support DTrace on platforms that support
 it.
DTrace is a diagnosis and performance analysis tool from Sun.

If this doesn't make any sense to you, just accept the default.
EOM

while $test 1 ; do
 case "$usedtrace" in
 $define|true|[yY]*)
  dflt='y'
  ;;
 $undef|false|[nN]*)
  dflt='n'
  dflt_dtrace=""
  ;;
 ?*)
  dflt='y'
  dflt_dtrace=$usedtrace
  ;;
 *)
  dflt='n'
  ;;
 esac

 rp='Support DTrace if available?'
 . ./myread
 case "$ans" in
 y|Y) val="$define" ;;
 *)      val="$undef" ;;
 esac
 set usedtrace
 eval $setvar
```

```
 test "X$usedtrace" != "X$define" && break

 echo " "
 rp='Where is the dtrace executable?'
 dflt=$dflt_dtrace
 . ./getfile
 val="$ans"
 set dtrace
 eval $setvar

 if $test -f $dtrace
 then
  if $dtrace -h -s ../perldtrace.d \
   -o perldtrace.tmp >/dev/null 2>&1 \
   && rm -f perldtrace.tmp
  then
   echo " "
   echo "Good: your $dtrace knows about the -h flag."
  else
   cat >&2 <<EOM

*** $me:  Fatal Error:  $dtrace doesn't support -h flag
***
*** Your installed dtrace doesn't support the -h switch to
 compile a D
*** program into a C header. Can't continue.

EOM
   exit 1
  fi
  break;
 fi

 case "$fastread" in
 yes)
  cat >&2 <<EOM

*** $me:  Fatal Error:  $dtrace not found.
*** Can't continue.

EOM
  exit 1
  ;;
 *)
  echo "*** $dtrace was not found."
  echo " "
  ;;
 esac
```

```
done

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/usedtrace.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: fpostype.U,v 3.0.1.2 1994/08/29 16:20:52 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: fpostype.U,v $
?RCS: Revision 3.0.1.2  1994/08/29  16:20:52  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:59:59  ram
?RCS: patch30: created
?RCS:
?MAKE:fpostype: Myread Typedef
?MAKE: -pick add $@ %<
?S:fpostype:
?S: This variable defines Fpos_t to be something like fpos_t, long,
?S: uint, or whatever type is used to declare file positions in libc.
?S:.
?C:Fpos_t:
?C: This symbol holds
 the type used to declare file positions in libc.
?C: It can be fpos_t, long, uint, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Fpos_t $fpostype  /* File position type */
?H:.
?LINT:set fpostype
: see what type file positions are declared as in the library
rp="What is the type for file position used by fsetpos()?"
set fpos_t fpostype long stdio.h sys/types.h
eval $typedef_ask

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/fpostype.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_pthread_atfork: Inlibc cat Compile usethreads Setvar
?MAKE: -pick add $@ %<
?S:d_pthread_atfork:
?S: This variable conditionally defines the HAS_PTHREAD_ATFORK symbol,
?S: which indicates to the C program that the pthread_atfork()
?S: routine is available.
?S:.
?C:HAS_PTHREAD_ATFORK:
?C: This symbol, if defined, indicates that the pthread_atfork routine
?C: is available to setup fork handlers.
?C:.
?H:#$d_pthread_atfork HAS_PTHREAD_ATFORK  /**/
?H:.
?LINT:set d_pthread_atfork
: see whether the pthread_atfork exists
$cat >try.c <<EOP
#include <pthread.h>
#include <stdio.h>
int main() {
#ifdef  PTHREAD_ATFORK
	pthread_atfork(NULL,NULL,NULL);
#endif
}
EOP

: see if pthread_atfork exists
set
 try -DPTHREAD_ATFORK
if eval $compile; then
   val="$define"
else
   val="$undef"
fi
case "$usethreads" in
$define)
	case "$val" in
	$define) echo 'pthread_atfork found.' >&4	;;
	*)	echo 'pthread_atfork NOT found.' >&4	;;
	esac
```

```
esac
set d_pthread_atfork
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_pthread_atfork.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2004 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strlcpy: Inlibc Hasproto d_gnulibc
?MAKE: -pick add $@ %<
?S:d_strlcpy:
?S: This variable conditionally defines the HAS_STRLCPY symbol, which
?S: indicates to the C program that the strlcpy () routine is available.
?S:.
?C:HAS_STRLCPY:
?C: This symbol, if defined, indicates that the strlcpy () routine is
?C: available to do string copying.
?C:.
?H:#$d_strlcpy HAS_STRLCPY  /**/
?H:.
?T:d_strlcpy_proto xx1 xx2 xx3 xx4
?LINT:set d_strlcpy
: see if strlcpy exists
: We need both a prototype in string.h and the symbol in libc.
echo " "
d_strlcpy_proto="
xx1="#$d_gnulibc HAS_GNULIBC"
xx2='#if defined(HAS_GNULIBC) && !defined(_GNU_SOURCE)'
xx3='#   define _GNU_SOURCE'
xx4='#endif'
set d_strlcpy_proto strlcpy
 literal "$xx1" literal "$xx2" literal "$xx3" literal "$xx4" define string.h
eval $hasproto
case "$d_strlcpy_proto" in
   define) # see if strlcpy exists
 set strlcpy d_strlcpy
 eval $inlibc
 ;;
   *)  val=$undef
 set d_strlcpy
```

```
 eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strlcpy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Signal.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Signal.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:20:01  ram
?RCS: patch61: created
?RCS:
?X:
?X: This unit produces three files:
?X: 1- A signal.c file, which, when compiled and run, produces an output like:
?X:
?X:   HUP 1
?X:   INT 2
?X:   QUIT 3
?X:   etc...
?X:
?X: 2- A signal.awk script to parse the output of signal.c, fill
?X: in gaps (up to NSIG) and move duplicates to the end.
?X: 3- A signal_cmd script to compile signal.c and run it
?X: through
 sort -n -k 2 | uniq | awk -f signal.awk.
?X: (we try also sort -n +1 since some old hosts don't grok sort -k)
?X: (This is called signal_cmd to avoid OS/2 confusion with
?X: signal.cmd vs. signal.
?X: The signal_cmd script also falls back on checking signals one at a
?X: time in case the signal.c program fails.  On at least one version of
?X: Linux 2.1.x, the header file #define'd SIGRTMAX to a symbol that
?X: is not defined by the compiler/linker. :-(.  Further, on that same
?X: version of Linux, the user had a defective C-shell that gave an
?X: incorrect list for kill -l, so the fall-back didn't work.
?X:
?X: This unit is then used by sig_name.U.
```

```
?X:
?MAKE:Signal: test tr rm awk cat grep startsh eunicefix sed sort uniq \
 Findhdr cppstdin +cppflags cppminus Compile _o _exe trnl run i_stdlib \
 sysroot
?MAKE: -pick add $@ %<
?X:all files declared as "public" since they're used from other units
?F:signal.c signal_cmd signal.lst signal signal.awk
?T: xx xxx xxxfiles
?LINT:use rm run
 _o _exe
?LINT:extern sig_num_init
: Trace out the files included by signal.h, then look for SIGxxx names.
?X: Remove SIGARRAYSIZE used by HPUX.
?X: Remove SIGSTKSIZE used by Linux.
?X: Remove SIGSTKSZ used by POSIX.
?X: Remove SIGTYP void lines used by OS2.
?X: Some cpps, like os390, do not give the file name anywhere
case "$sig_num_init" in
")
if [ "X$fieldn" = X ]; then
 : Just make some guesses.  We check them later.
 xxx="$sysroot/usr/include/signal.h $sysroot/usr/include/sys/signal.h"
else
 xxx=`echo '#include <signal.h>' |
 $cppstdin $cppminus $cppflags 2>/dev/null |
 $grep '^[  ]*#.*include' |
 $awk "{print \\$$fieldn}" | $sed 's!"!!g' |\
  $sed 's!\\\\\\\\!/!g' | $sort | $uniq`
fi
?X: Check this list of files to be sure we have parsed the cpp output ok.
?X: This will also avoid potentially non-existent files, such
?X: as ../foo/bar.h
xxxfiles="
?X: Add /dev/null in case the $xxx list is empty.
for xx in $xxx /dev/null ; do
 $test -f "$xx" && xxxfiles="$xxxfiles $xx"
done
?X:
 If we have found no files, at least try signal.h
case "$xxxfiles" in
") xxxfiles=`./findhdr signal.h` ;;
esac
xxx=`awk '
$1 ~ /^#define$/ && $2 ~ /^SIG[A-Z0-9]*$/ && $2 !~ /SIGARRAYSIZE/ && $2 !~ /SIGSTKSIZE/ && $2 !~
/SIGSTKSZ/ && $3 !~ /void/ {
 print substr($2, 4, 20)
}
$1 == "#" && $2 ~ /^define$/ && $3 ~ /^SIG[A-Z0-9]*$/ && $3 !~ /SIGARRAYSIZE/ && $4 !~ /void/ {
```

```
 print substr($3, 4, 20)
}' $xxxfiles`
: Append some common names just in case the awk scan failed.
xxx="$xxx ABRT ALRM BUS CANCEL CHLD CLD CONT DIL EMT FPE"
xxx="$xxx FREEZE HUP ILL INT IO IOT KILL LOST LWP PHONE"
xxx="$xxx PIPE POLL PROF PWR QUIT RTMAX RTMIN SEGV STKFLT STOP"
xxx="$xxx SYS TERM THAW TRAP TSTP TTIN TTOU URG USR1 USR2"
xxx="$xxx USR3 USR4 VTALRM WAITING WINCH WIND WINDOW XCPU XFSZ"

: generate a few handy files for later
$cat > signal.c <<EOCP
#include <sys/types.h>
#include <signal.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <stdio.h>
int main() {

/* Strange style to avoid
 deeply-nested #if/#else/#endif */
#ifndef NSIG
#  ifdef _NSIG
#    define NSIG (_NSIG)
#  endif
#endif

#ifndef NSIG
#  ifdef SIGMAX
#    define NSIG (SIGMAX+1)
#  endif
#endif

#ifndef NSIG
#  ifdef SIG_MAX
#    define NSIG (SIG_MAX+1)
#  endif
#endif

#ifndef NSIG
#  ifdef _SIG_MAX
#    define NSIG (_SIG_MAX+1)
#  endif
#endif

#ifndef NSIG
#  ifdef MAXSIG
```

```
#    define NSIG (MAXSIG+1)
#  endif
#endif

#ifndef NSIG
#  ifdef MAX_SIG
#    define NSIG (MAX_SIG+1)
#  endif
#endif

#ifndef NSIG
#  ifdef SIGARRAYSIZE
#    define NSIG SIGARRAYSIZE /* Assume ary[SIGARRAYSIZE] */
#  endif
#endif

#ifndef NSIG
#  ifdef _sys_nsig
#    define NSIG (_sys_nsig) /* Solaris 2.5 */
#  endif
#endif

/* Default to some arbitrary number that's big enough to get most
  of the common signals.
*/
#ifndef NSIG
#    define NSIG 50
#endif

printf("NSIG %d\n", NSIG);

#ifndef JUST_NSIG

EOCP

echo $xxx | $tr ' ' $trnl | $sort | $uniq | $awk '
{
 printf "#ifdef SIG"; printf $1; printf "\n"
 printf "printf(\"";
 printf $1; printf " %%d\\n\",SIG";
 printf $1; printf ");\n"
 printf "#endif\n"
}
END {
 printf "#endif /* JUST_NSIG */\n";
 printf "exit(0);\n}\n";
}
' >>signal.c
```

```
$cat >signal.awk <<'EOP'
BEGIN { ndups = 0 }
$1 ~ /^NSIG$/ { nsig = $2 }
($1 !~ /^NSIG$/) && (NF == 2) && ($2 ~ /^[0-9][0-9]*$/) {
   if ($2 > maxsig) { maxsig = $2 }
   if (sig_name[$2]) {
 dup_name[ndups] = $1
 dup_num[ndups] = $2
 ndups++
   }
   else {
 sig_name[$2] = $1
 sig_num[$2] = $2
   }
}
END {
   if (nsig == 0) {
    nsig = maxsig + 1
   }
   printf("NSIG %d\n", nsig);
   for (n = 1; n < nsig; n++) {
 if (sig_name[n]) {
     printf("%s %d\n", sig_name[n], sig_num[n])
 }
 else {
     printf("NUM%d %d\n", n, n)
 }
   }
   for (n = 0; n < ndups; n++) {
 printf("%s %d\n", dup_name[n], dup_num[n])
   }
}
EOP
$cat >signal_cmd <<EOS
$startsh
if $test -s signal.lst; then
   echo "Using your existing signal.lst file"
 exit 0
fi
xxx="$xxx"
EOS
?X: Avoid variable interpolation problems, especially with
?X:
 xxx, which contains newlines.
$cat >>signal_cmd <<'EOS'

set signal
if eval $compile_ok; then
```

```
 $run ./signal$_exe | ($sort -n -k 2 2>/dev/null || $sort -n +1) |\
  $uniq | $awk -f signal.awk >signal.lst
else
 echo "(I can't seem be able to compile the whole test program)" >&4
 echo "(I'll try it in little pieces.)" >&4
 set signal -DJUST_NSIG
 if eval $compile_ok; then
  $run ./signal$_exe > signal.nsg
  $cat signal.nsg
 else
  echo "I can't seem to figure out how many signals you have." >&4
  echo "Guessing 50." >&4
  echo 'NSIG 50' > signal.nsg
 fi
 : Now look at all the signal names, one at a time.
 for xx in `echo $xxx | $tr ' ' $trnl | $sort | $uniq`; do
  $cat > signal.c <<EOCP
#include <sys/types.h>
#include <signal.h>
#include <stdio.h>
int main() {
printf("$xx %d\n", SIG${xx});
return 0;
}
EOCP
  set signal
  if eval $compile; then
   echo "SIG${xx} found."
   $run ./signal$_exe  >> signal.ls1
  else
   echo "SIG${xx} NOT found."
  fi
 done
 if $test -s signal.ls1; then
  $cat
 signal.nsg signal.ls1 |
   $sort -n | $uniq | $awk -f signal.awk >signal.lst
 fi

fi
if $test -s signal.lst; then
 :
else
 echo "(AAK! I can't compile the test programs -- Guessing)" >&4
 echo 'kill -l' >signal
 set X `csh -f <signal`
 $rm -f signal
 shift
```

```
 case $# in
 0) set HUP INT QUIT ILL TRAP ABRT EMT FPE KILL BUS SEGV SYS PIPE ALRM TERM;;
 esac
 echo $@ | $tr ' ' $trnl | \
     $awk '{ printf "%s %d\n", $1, ++s; }
    END { printf "NSIG %d\n", ++s }' >signal.lst
fi
$rm -f signal.c signal$_exe signal$_o signal.nsg signal.ls1
EOS
chmod a+x signal_cmd
$eunicefix signal_cmd
;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Signal.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: MailAuthor.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: MailAuthor.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  15:04:41  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.4  1994/08/29  16:05:09  ram
?RCS: patch32: avoid message sending if they said no previously
?RCS:
?RCS: Revision 3.0.1.3  1993/10/16  13:47:30  ram
?RCS: patch12: now makes sure user-specified address is in Internet format
?RCS:
?RCS: Revision
 3.0.1.2  1993/09/13  15:48:49  ram
?RCS: patch10: reverted to original intent by the Author himself
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:38:38  ram
?RCS: patch7: now prompts user for its e-mail address
?RCS: patch7: no longer silent when mail has been sent
```

```
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:06  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?RCS:
?X:
?X: This unit asks the user to please send a message to the author.
?X: To force inclusion of this unit, you must add it's name to the
?X: dependancies on the MAKE line in your private copy of End.U.
?X: This allows a smart mailagent program to automatically let users know
?X: when their package is out of date, and to allow users to be notified of
?X: any future patches.
?X:
?MAKE:MailAuthor mailpatches notifypatches usermail: test cat mailer \
 package Myread patchlevel baserev rm rsrc Oldconfig Configdir
?MAKE: -pick wipe $@ %<
?S:mailpatches:
?S: Indicates whether the user would like future patches to be mailed
?S: directly
 to them.
?S:.
?S:notifypatches:
?S: Indicates whether the user would like notification of future patches
?S: mailed to them.
?S:.
?S:usermail:
?S: This variable is used internally by Configure to keep track of the
?S: user e-mail address, where notifications or patches should be sent.
?S: A '-' value means the return address will be extracted by parsing
?S: the mail headers.
?S:.
?T:opt mailpatches notifypatches atsh status
: notify author that his package is used
if $test -f ../.config/mailauthor &&
 cmp $rsrc/patchlevel.h ../.config/mailauthor >/dev/null 2>&1
then
 status="say that you're using $package";
 case "$mailpatches" in
 true) status='have patches mailed to you as they are issued';;
 esac
 case "$notifypatches" in
 true) status='be notified when new patches are issued';;
 esac
 $cat <<EOM

You have already sent the author of $package (<MAINTLOC>) mail to
$status. If you wish, you may modify
your previous request by sending a new mail with different options.
```

```
EOM
 rp='Should
 I send a status update to <MAINTLOC>?'
 dflt=n
else
 $cat <<EOM

If you are able to send mail to the Internet, the author of $package would
really appreciate you letting me send off a quick note, just to say that you've
tried it. The author is more likely to spend time maintaining $package if it's
known that many people are using it, and you can even ask to get sent new
patches automagically this way if you wish. To protect your privacy, all I'll
say in the mail is the version of $package that you're using.

EOM
 rp='Should I send mail to <MAINTLOC>?'
 dflt=y
?X: Ensure default is 'n' if question has been asked already, in case they
?X: run Configure -d next time and answered 'n' the first time. Therefore,
?X: an empty nomail will be created later on even if no mail is sent.
 $test -f ../.config/nomail && dflt=n
fi
. ./myread
case "$ans" in
[yY]*)
 echo " "
 echo "Great! Your cooperation is really appreciated."
 $cat <<EOM

Some braindead sites do not set a proper return
 address in the From: header of
their outgoing mail, making it impossible to reply to mail they generate.
If your site is broken in this way, write to your system administrator and get
it fixed!!! In the mean time, you can manually specify the Internet e-mail
address by which the author can get back to you, should there be a need to do
so. If manually specified, it should be something like "user@domain.top".
If your mail system generates addresses correctly, specify "none".

EOM
 case "$usermail" in
 '-'|'') dflt=none;;
 *) dflt="$usermail";;
 esac
 rp='Manually specify a return address to use:'
 . ./myread
 case "$ans" in
 none|*@*.*)
```

```
 case "$ans" in
 none) usermail='-';;
 *) usermail="$ans";;
 esac
 ;;
*)
 echo "(Address does not look like an Internet one -- ignoring it.)"
?X:
?X: If we can't trust their mailer or their return address, it's highly
?X: suggested that they only register and don't ask to get anything from
?X: the author, since it's likely to bounce in null-land --
 RAM.
?X:
 usermail='-'
 mailpatches=false
 notifypatches=false
 ;;
esac
echo " "
opt=''
rp='Would you like to have new patches automatically mailed to you?'
case "$mailpatches" in
true) dflt=y;;
*) dflt=n;;
esac
. ./myread
case "$ans" in
[yY]*) opt=' mailpatches'; mailpatches=true;;
*)
 mailpatches=false
 echo " "
 rp='Ok, would you like to simply be notified of new patches?'
 case "$notifypatches" in
 false) dflt=n;;
 *) dflt=y;;
 esac
 . ./myread
 echo " "
 case "$ans" in
 [yY]*) opt=' notifypatches'; notifypatches=true;;
 *)
  echo "Fine, I'll simply say that you've tried it then."
  notifypatches=false
  ;;
 esac
 ;;
esac
echo "Sending mail to <MAINTLOC>..." >&4
```

```
?X: Bizarre hack here. We can't just put @SH in the hereis lines below, because
?X: metaconfig will interpret it as a command, and there's no quoting mechanism.
?X: Do it via a variable instead.
 atsh='@SH'
 $mailer <MAINTLOC> <<EOM >/dev/null 2>&1
Subject: Command
Precedence: junk
To: <MAINTLOC>

$atsh
 package $usermail $package $baserev $patchlevel$opt
EOM
 $rm -f ../.config/mailauthor ../.config/nomail
 cp $rsrc/patchlevel.h ../.config/mailauthor
 ;;
*)
 case "$dflt" in
 "y")
  echo "Oh well, maybe next time."
  cp /dev/null ../.config/nomail
  ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/MailAuthor.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sigaction.U,v 3.0.1.1 1997/02/28 15:44:29 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_sigaction.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:44:29  ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_sigaction: Csym Compile Setvar cat rm_try i_stdlib
?MAKE: -pick add $@ %<
?S:d_sigaction:
```

```
?S: This variable conditionally defines the HAS_SIGACTION symbol, which
?S: indicates that the Vr4 sigaction() routine is available.
?S:.
?C:HAS_SIGACTION:
?C: This symbol, if defined, indicates that Vr4's sigaction() routine
?C: is available.
?C:.
?H:#$d_sigaction
 HAS_SIGACTION /**/
?H:.
?T:val
?LINT:set d_sigaction
: see if we have sigaction
echo " "
if set sigaction val -f d_sigaction; eval $csym; $val; then
 echo 'sigaction() found.' >&4
?X:
?X: Solaris 2.5_x86 with SunWorks Pro C 3.0.1 doesn't have a complete
?X: sigaction structure if compiled with cc -Xc.  This compile test
?X: will fail then.  <doughera@lafcol.lafayette.edu>
?X:
 $cat > try.c <<EOP
#include <stdio.h>
#include <sys/types.h>
#include <signal.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
{
   struct sigaction act, oact;
   act.sa_flags = 0;
   oact.sa_handler = 0;
   /* so that act and oact are used */
   exit(act.sa_flags == 0 &&  oact.sa_handler == 0);
}
EOP
 set try
 if eval $compile_ok; then
  val="$define"
 else
  echo "But you don't seem to have a usable struct sigaction." >&4
  val="$undef"
 fi
else
 echo 'sigaction NOT found.' >&4
 val="$undef"
```

```
fi
set d_sigaction; eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_sigaction.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setpent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_setpent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setpent: Inlibc
?MAKE: -pick add $@ %<
?S:d_setpent:
?S: This variable conditionally defines HAS_SETPROTOENT if setprotoent() is
?S: available.
?S:.
?C:HAS_SETPROTOENT:
?C: This symbol, if defined, indicates that the setprotoent() routine is
?C: available.
?C:.
?H:#$d_setpent HAS_SETPROTOENT  /**/
?H:.
?LINT:set d_setpent
: see if setprotoent
 exists
set setprotoent d_setpent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_setpent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2016 Dagfinn Ilmari Mannsker & H.Merijn Brand
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X:
?X: This unit produces a variable that is intended to be eval'ed in
?X: order to define/undefine a symbol. A consistency check is made
?X: regarding any previous value and a warning is issued if there
?X: is any discrepancy.
?X:
?X: To use it, say:
?X: set d_siginfo_si_errno siginfo_t int si_errno $d_sigaction signal.h
?X: eval $hasfield_t;
?X:
?MAKE:Hasfield_t: test Compile rm_try Setvar
?MAKE: -pick add $@ %<
?LINT:define hasfield_t
?S:hasfield_t:
?S: Internal macro for Configure
?S:.
?V:hasfield_t:
?T:varname struct type field
: Define hasfield_t macro for Configure internal use
hasfield_t='varname=$1; struct=$2; type=$3; field=$4; shift; shift; shift; shift;
while $test $# -ge 2; do
   case
 "$1" in
 $define) echo "#include <$2>";;
   esac ;
   shift 2;
done > try.c;
echo "int main () { $struct foo; $type bar = foo.$field; }" >> try.c;
set try;
if eval $compile; then
 val="$define";
else
 val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try'
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/Hasfield_t.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
```

```
?RCS: Copyright (c) 2005 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_clearenv: Inlibc
?MAKE: -pick add $@ %<
?S:d_clearenv:
?S: This variable conditionally defines the HAS_CLEARENV symbol, which
?S: indicates to the C program that the clearenv () routine is available.
?S:.
?C:HAS_CLEARENV:
?C: This symbol, if defined, indicates that the clearenv () routine is
?C: available for use.
?C:.
?H:#$d_clearenv HAS_CLEARENV  /**/
?H:.
?LINT:set d_clearenv
: see if clearenv exists
set clearenv d_clearenv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_clearenv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_frexpl: Inlibc
?MAKE: -pick add $@ %<
?S:d_frexpl:
?S: This variable conditionally defines the HAS_FREXPL symbol, which
?S: indicates to the C program that the frexpl() routine is available.
?S:.
?C:HAS_FREXPL:
?C: This symbol, if defined, indicates that the frexpl routine is
?C: available to break a long double floating-point number into
?C: a normalized fraction and an integral power of 2.
?C:.
?H:#$d_frexpl HAS_FREXPL  /**/
?H:.
?LINT:set d_frexpl
```

```
: see if frexpl exists
set frexpl d_frexpl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_frexpl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_sockatmarkproto: Hasproto d_socket
?MAKE: -pick add $@ %<
?S:d_sockatmarkproto:
?S: This variable conditionally defines the HAS_SOCKATMARK_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the sockatmark() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_SOCKATMARK_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the sockatmark() function.  Otherwise, it is up
?C: to the program to supply one.  A good
 guess is
?C:  extern int sockatmark(int);
?C:.
?H:#$d_sockatmarkproto HAS_SOCKATMARK_PROTO /**/
?H:.
?LINT:set d_sockatmarkproto
: see if prototype for sockatmark is available
echo " "
set d_sockatmarkproto sockatmark $d_socket sys/socket.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sockatmarkproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Compile.U,v $
```

```
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS:
?X:
?X: This unit is just a quick shorthand for the compile command
?X: to be used in all the other metaconfig units.
?X:
?MAKE:Compile: +cc +optimize +ccflags +ldflags +libs test
?MAKE: -pick wipe $@ %<
?LINT:extern usedevel maintloc
?LINT:define compile compile_ok
?V:compile compile_ok mc_file
?S:compile:
?S: This shell variable is used internally by Configure to provide
?S: a convenient shorthand for the typical compile command, namely
?S: $cc $optimize $ccflags $ldflags -o $1 $1.c $libs > /dev/null 2>&1
?S: Note that the output filename does _not_ include the _exe
?S: extension.  Instead we assume that the linker will be
?S: "helpful" and automatically appending the correct suffix.
?S: OS/2
 users will apparently need to supply the -Zexe flag to
?S: get this behavior.
?S:
?S: To use this variable, say something like:
?S:  echo 'int main() { exit(0); }' > try.c
?S:  set try
?S:  if eval $compile; then
?S:   echo "success"   # and do whatever . . .
?S:  else
?S:   echo "failure"   # and do whatever . . .
?S:  fi
?S: To add extra flags cc flags (e.g. -DWHATEVER) just put them
?S: in $*, e.g.
?S:  set try -DTRY_THIS_FLAG
?S:.
?S:compile_ok:
?S: This shell variable is used internally by Configure to provide
?S: a convenient shorthand for the typical compile command that you
?S: expect to work ok.  It is the same as $compile, except we
?S: deliberately let the user see any error messages.
?S:.
: define a shorthand compile call
compile='
mc_file=$1;
```

```
shift;
case "$usedevel" in $define|true|[yY]*) if $test ! -f "${mc_file}.c"; then
echo "Internal Configure script bug - compiler test file ${mc_file}.c is missing. Please report this to <$maintloc>"
>&4;
exit 1;
fi;
esac;
$cc
 -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs > /dev/null 2>&1;'
: define a shorthand compile call for compilations that should be ok.
compile_ok='
mc_file=$1;
shift;
$cc -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs > /dev/null 2>&1;'
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/Compile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_getpent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getpent: Inlibc
?MAKE: -pick add $@ %<
?S:d_getpent:
?S: This variable conditionally defines HAS_GETPROTOENT if getprotoent() is
?S: available to look up protocols in some data base or another.
?S:.
?C:HAS_GETPROTOENT:
?C: This symbol, if defined, indicates that the getprotoent() routine is
?C: available to look up protocols in some data base
 or another.
?C:.
?H:#$d_getpent HAS_GETPROTOENT  /**/
?H:.
?LINT:set d_getpent
```

```
: see if getprotoent exists
set getprotoent d_getpent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_getpent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sizetype.U,v 3.0.1.1 1994/08/29 16:32:10 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: sizetype.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:32:10  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:sizetype: Myread Typedef
?MAKE: -pick add $@ %<
?S:sizetype:
?S: This variable defines sizetype to be something like size_t,
?S: unsigned long, or whatever type is used to declare length
?S: parameters for string functions.
?S:.
?C:Size_t:
?C: This symbol holds the type used
 to declare length parameters
?C: for string functions.  It is usually size_t, but may be
?C: unsigned long, int, etc.  It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Size_t $sizetype  /* length parameter for string functions */
?H:.
?LINT: set sizetype
: see what type is used for size_t
rp="What is the type used for the length parameter for string functions?"
set size_t sizetype 'unsigned int' stdio.h sys/types.h
eval $typedef_ask
```

Found in path(s):

* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/sizetype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_vfork.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_vfork.U,v $
?RCS: Revision 3.0.1.1  1994/05/06  15:05:44  ram
?RCS: patch23: avoid inclusion of <vfork.h> if no vfork() used (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_vfork: Inhdr d_vfork
?MAKE: -pick add $@ %<
?S:i_vfork:
?S: This variable conditionally defines the I_VFORK symbol, and indicates
?S: whether a C program should include vfork.h.
?S:.
?C:I_VFORK:
?C: This symbol,
 if defined, indicates to the C program that it should
?C: include vfork.h.
?C:.
?H:#$i_vfork I_VFORK /**/
?H:.
: see if this is a vfork system
case "$d_vfork" in
"$define")
 set vfork.h i_vfork
 eval $inhdr
 ;;
*)
 i_vfork="$undef"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_vfork.U

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```
?RCS: $Id$
?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_prctl d_prctl_set_name: Inlibc cat Compile run rm_try
?MAKE: -pick add $@ %<
?S:d_prctl:
?S: This variable conditionally defines the HAS_PRCTL symbol, which
?S: indicates to the C program that the prctl() routine is available.
?S: Note that there are at least two prctl variants: Linux and Irix.
?S: While they are somewhat similar, they are incompatible.
?S:.
?S:d_prctl_set_name:
?S: This variable conditionally defines the HAS_PRCTL_SET_NAME symbol,
?S: which indicates to the C program that the prctl() routine supports
?S: the PR_SET_NAME option.
?S:.
?C:HAS_PRCTL:
?C: This symbol, if defined, indicates that the prctl routine is
?C: available to set process title.
?C: Note that there are at least two
 prctl variants: Linux and Irix.
?C: While they are somewhat similar, they are incompatible.
?C:.
?C:HAS_PRCTL_SET_NAME:
?C: This symbol, if defined, indicates that the prctl routine is
?C: available to set process title and supports PR_SET_NAME.
?C:.
?H:#$d_prctl HAS_PRCTL  /**/
?H:#$d_prctl_set_name HAS_PRCTL_SET_NAME  /**/
?H:.
?F:!try
?LINT:set d_prctl
: see if prctl exists
set prctl d_prctl
eval $inlibc

: see if prctl supports PR_SET_NAME
d_prctl_set_name=$undef
case $d_prctl in
   $define)
 $cat >try.c <<EOM
#ifdef __ANDROID__
```

```
#include <unistd.h>
#endif
#include <sys/prctl.h>

int main (int argc, char *argv[])
{
  return (prctl (PR_SET_NAME, "Test"));
  } /* main */
EOM
 set try
 if eval $compile_ok && $run ./try; then
    echo "Your prctl (PR_SET_NAME, ...) works"
    d_prctl_set_name=$define
    fi
 $rm_try
 ;;
  esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_prctl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getprior.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getprior.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:16  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getprior: Inlibc
?MAKE: -pick add $@ %<
?S:d_getprior:
?S: This variable conditionally defines HAS_GETPRIORITY if getpriority()
?S: is available to get a process's priority.
?S:.
?C:HAS_GETPRIORITY (GETPRIORITY):
?C: This symbol, if defined, indicates that the getpriority routine is
?C: available to get a process's priority.
?C:.
?H:#$d_getprior
```

```
 HAS_GETPRIORITY  /**/
?H:.
: see if getpriority exists
?LINT:set d_getprior
set getpriority d_getprior
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getprior.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setgrps.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setgrps.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setgrps: Inlibc
?MAKE: -pick add $@ %<
?S:d_setgrps:
?S: This variable conditionally defines the HAS_SETGROUPS symbol, which
?S: indicates to the C program that the setgroups() routine is available
?S: to set the list of process groups.
?S:.
?C:HAS_SETGROUPS:
?C: This symbol, if defined, indicates that the setgroups() routine is
?C: available
 to set the list of process groups.  If unavailable, multiple
?C: groups are probably not supported.
?C:.
?H:#$d_setgrps HAS_SETGROUPS  /**/
?H:.
?LINT:set d_setgrps
: see if setgroups exists
set setgroups d_setgrps
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/dist/U/d_setgrps.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setruid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setruid.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setruid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setruid:
?S: This variable conditionally defines the HAS_SETRUID symbol, which
?S: indicates to the C program that the setruid() routine is available
?S: to change the real uid of the current program.
?S:.
?C:HAS_SETRUID (SETRUID):
?C: This symbol, if defined, indicates that the setruid
 routine is available
?C: to change the real uid of the current program.
?C:.
?H:#$d_setruid HAS_SETRUID  /**/
?H:.
?LINT:set d_setruid
: see if setruid exists
set setruid d_setruid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setruid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_utime.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_utime.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_utime: Inhdr
?MAKE: -pick add $@ %<
?S:i_utime:
?S: This variable conditionally defines the I_UTIME symbol, and indicates
?S: whether a C program should include <utime.h>.
?S:.
?C:I_UTIME:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <utime.h>.
?C:.
?H:#$i_utime I_UTIME  /**/
?H:.
?LINT:set i_utime
:
 see if this is an utime system
set utime.h i_utime
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_utime.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_isascii.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:13:39  ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:09:32  ram
?RCS: patch32: created by ADO
```

```
?RCS:
?MAKE:d_isascii: cc cat ccflags ldflags rm libs Setvar
?MAKE: -pick add $@ %<
?S:d_isascii:
?S: This variable conditionally defines the HAS_ISASCII constant,
?S: which indicates to the C program that isascii()
 is available.
?S:.
?C:HAS_ISASCII:
?C: This manifest constant lets the C program know that isascii
?C: is available.
?C:.
?H:#$d_isascii HAS_ISASCII  /**/
?H:.
?LINT:set d_isascii
?X: Can't use Inlibc because isascii() might be a macro.
: Look for isascii
echo " "
$cat >isascii.c <<'EOCP'
#include <stdio.h>
#include <ctype.h>
int main() {
 int c = 'A';
 if (isascii(c))
  exit(0);
 else
  exit(1);
}
EOCP
if $cc $ccflags $ldflags -o isascii isascii.c $libs >/dev/null 2>&1 ; then
 echo "isascii() found." >&4
 val="$define"
else
 echo "isascii() NOT found." >&4
 val="$undef"
fi
set d_isascii
eval $setvar
$rm -f isascii*
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_isascii.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Hasproto.U $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
```

```
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X: This unit generates a $hasproto string that is used internally
?X: by Configure to check if this system has a prototype for a
?X: particular function
?X:
?X: To use it, say something like:
?X:  set d_getnetent_proto getnetent $i_netdb netdb.h
?X:  eval $hasproto
?X: Or, for more complicated sets of headers, do something like
?X: hdrs="$define sys/types.h
?X:  $i_systime sys/time.h
?X:  $i_sysselct sys/select.h
?X:  $i_netdb netdb.h"
?X: set d_getnetent_proto getnetent $hdrs
?X: eval $hasproto
?X:
?X: There is also an 'escape' hatch built in.  If you have a pair
?X: of args   'literal 'stuff' then 'stuff' gets included literally
?X: into the test program.  See Protochk.U for more details.
?X:
?MAKE:Hasproto:
 Setvar cppstdin cppflags cppminus contains rm_try test
?MAKE: -pick add $@ %<
?T:func varname
?F:!try.c
?V:hasproto
: Define hasproto macro for Configure internal use
hasproto='varname=$1; func=$2; shift; shift;
while $test $# -ge 2; do
 case "$1" in
 $define) echo "#include <$2>";;
 literal) echo "$2" ;;
 esac ;
   shift 2;
done > try.c;
$cppstdin $cppflags $cppminus < try.c > tryout.c 2>/dev/null;
if $contains "$func.*(" tryout.c >/dev/null 2>&1; then
 echo "$func() prototype found.";
 val="$define";
else
 echo "$func() prototype NOT found.";
 val="$undef";
fi;
set $varname;
eval $setvar;
```

```
$rm_try tryout.c'
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/Hasproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_readv: Inlibc
?MAKE: -pick add $@ %<
?S:d_readv:
?S: This variable conditionally defines the HAS_READV symbol, which
?S: indicates to the C program that the readv() routine is available.
?S:.
?C:HAS_READV:
?C: This symbol, if defined, indicates that the readv routine is
?C: available to do gather reads.  You will also need <sys/uio.h>
?C: and there I_SYSUIO.
?C:.
?H:#$d_readv HAS_READV  /**/
?H:.
?LINT:set d_readv
: see if readv exists
set readv d_readv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_readv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gnulibc.U,v 3.0.1.1 1997/02/28 15:34:33 ram Exp $
?RCS:
?RCS: Copyright (c) 1996,1998 Andy Dougherty
?RCS: Copyright (c) 1996, Sven Verdoolaege
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 3.0.
```

```
?RCS:
?RCS: $Log: d_gnulibc.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:34:33  ram
?RCS: patch61: created
?RCS:
?MAKE:d_gnulibc gnulibc_version: Myread Oldconfig Setvar rm_try \
 cat Compile run
?MAKE: -pick add $@ %<
?S:d_gnulibc:
?S: Defined if we're dealing with the GNU C Library.
?S:.
?S:gnulibc_version:
?S: This variable contains the version number of the GNU C library.
?S: It is
 usually something like '2.2.5'.  It is a plain '' if this
?S: is not the GNU C library, or if the version is unknown.
?S:.
?C:HAS_GNULIBC:
?C: This symbol, if defined, indicates to the C program that
?C: the GNU C library is being used.  A better check is to use
?C: the __GLIBC__ and __GLIBC_MINOR__ symbols supplied with glibc.
?C:.
?H:#$d_gnulibc HAS_GNULIBC /**/
?H:?%<:#if defined(HAS_GNULIBC) && !defined(_GNU_SOURCE)
?H:?%<:#   define _GNU_SOURCE
?H:?%<:#endif
?H:.
?F:!glibc.ver !try
?LINT: set d_gnulibc
?X: gnulibc can be executed by calling __libc_main().
?X: Ulrich Drepper doesn't think any other libc does that,
?X: but we check if it says 'GNU C Library' to be sure.
?X:
?X: Alas, as of 3/1998 glibc 2.0.7 reportedly isn't going to
?X: have __libc_main() anymore. :-(.  Fortunately, all released
?X: versions of glibc 2.x.x _do_ have CPP variables.  For 2.0.6,
?X: they are:
?X: #define __GLIBC__  2
?X: #define__GLIBC_MINOR__ 0.
?X: (The '6' isn't available :-(.
?X: glibc2.1 will also
 have
?X:  extern const char * __gnu_get_libc_release(void);
?X:  extern const char * __gnu_get_libc_version(void);
?X: functions.   --thanks to Andreas Jaeger.   --AD  6/1998.
?X: Although the exact format isn't documented, __gnu_get_libc_version()
?X: returns a simple string '2.1.3' in glibc 2.1.3.
?X:
```

```
: Check if we are using the GNU C library
echo " "
echo "Checking for GNU C Library..." >&4
cat >try.c <<'EOCP'
/* Find out version of GNU C library.  __GLIBC__ and __GLIBC_MINOR__
  alone are insufficient to distinguish different versions, such as
  2.0.6 and 2.0.7.  The function gnu_get_libc_version() appeared in
  libc version 2.1.0.      A. Dougherty,  June 3, 2002.
*/
#include <stdio.h>
int main(void)
{
#ifdef __GLIBC__
#   ifdef __GLIBC_MINOR__
#       if __GLIBC__ >= 2 && __GLIBC_MINOR__ >= 1 && !defined(__cplusplus)
#           include <gnu/libc-version.h>
     printf("%s\n",  gnu_get_libc_version());
#       else
     printf("%d.%d\n",  __GLIBC__, __GLIBC_MINOR__);
#
   endif
#   else
 printf("%d\n",  __GLIBC__);
#   endif
   return 0;
#else
   return 1;
#endif
}
EOCP
set try
if eval $compile_ok && $run ./try > glibc.ver; then
 val="$define"
 gnulibc_version=`$cat glibc.ver`
 echo "You are using the GNU C Library version $gnulibc_version"
else
 val="$undef"
 gnulibc_version=''
 echo "You are not using the GNU C Library"
fi
$rm_try glibc.ver
set d_gnulibc
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_gnulibc.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: h_fcntl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: h_fcntl.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:12  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:h_fcntl: Nothing
?MAKE: -pick add $@ %<
?S:h_fcntl:
?S: This is variable gets set in various places to tell i_fcntl that
?S: <fcntl.h> should be included.
?S:.
: Initialize h_fcntl
h_fcntl=false
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/h_fcntl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Myinit.U,v 3.0 1993/08/18 12:05:07 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: Myinit.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: If you want to initialize any default values, copy this unit to your
?X: personal U directory and add the assignments to the end.  This file
```

```
?X: is included after variables are initialized but before any old
?X: config.sh file is read in and before any Configure switch processing.
?X:
?MAKE:Myinit
 libswanted: Init
?MAKE: -pick add $@ %<
?S:libswanted:
?S: This variable holds a list of all the libraries we want to
?S: search.  The order is chosen to pick up the c library
?S: ahead of ucb or bsd libraries for SVR4.
?S:.
?LINT:extern usevfork glibpth
?LINT:change usevfork glibpth
: List of libraries we want.
?X: Put crypt here, even though I should really fix d_crypt.U to look
?X: for it correctly, including possible shared library versions.
: If anyone needs extra -lxxx, put those in a hint file.
libswanted="cl pthread socket bind inet nsl ndbm gdbm dbm db malloc dl ld"
libswanted="$libswanted sun m crypt sec util c cposix posix ucb bsd BSD"
: We probably want to search /usr/shlib before most other libraries.
: This is only used by the lib/ExtUtils/MakeMaker.pm routine extliblist.
glibpth=`echo " $glibpth " | sed -e 's! /usr/shlib ! !'`
glibpth="/usr/shlib $glibpth"
: Do not use vfork unless overridden by a hint file.
usevfork=false
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Myinit.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2014-2014, Karl Williamson & H.Merijn Brand
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_wcsxfrm: Compile cat rm_try run Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_wcsxfrm:
?S: This variable conditionally defines the HAS_WCSXFRM symbol if the
?S: wcsxfrm() routine is available and can be used to compare wide
?S: character strings.
?S:.
?C:HAS_WCSXFRM:
?C: This symbol, if defined, indicates that the wcsxfrm routine is
```

```
?C: available to tranform a wide character string for wcscmp().
?C:.
?H:#$d_wcsxfrm HAS_WCSXFRM /**/
?H:.
?F:!try
?LINT: set d_wcsxfrm
: look for wcsxfrm
echo " "
$cat >try.c <<'EOCP'
#include
 <errno.h>
#include <wchar.h>
int main ()
{
   wchar_t dst[4], *src = L" ";
   errno = 0;
   return (wcsxfrm (dst, src, 1) ? errno ? errno : 0 : 1);
   }
EOCP
set try
?X: if $cc $ccflags $ldflags -o try try.c $libs >/dev/null 2>&1 ; then
val="$undef"
if eval $compile; then
   `$run ./try`
   case "$?" in
 0)  echo "A working wcsxfrm() found." >&4
     val="$define" ;;
 *)  echo "wcsxfrm() found, but it doesn't work" >&4
     ;;
 esac
else
   echo "wcsxfrm() NOT found." >&4
   fi
set d_wcsxfrm
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_wcsxfrm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: bitpbyte.U,v 3.0.1.1 1994/10/29 16:02:54 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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```
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: bitpbyte.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:02:54  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:bitpbyte: cat rm Myread Compile run
?MAKE: -pick add $@ %<
?S:bitpbyte:
?S: This variable contains the value of the BITS_PER_BYTE symbol, which
?S: indicates to the C program how many bits there are in a byte.
?S:.
?C:BITS_PER_BYTE:
?C: This
 symbol contains the number of bits in a byte, so that the C
?C: preprocessor can make decisions based on it.
?C:.
?H:#define BITS_PER_BYTE $bitpbyte  /**/
?H:.
?F:!try
: check for length of byte
echo " "
case "$bitpbyte" in
")
 echo "Checking to see how many bits there are in a byte..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
?X: Standard C requires a macro CHAR_BIT in <limits.h>
#ifdef __STDC__
#include <limits.h>
#ifndef CHAR_BIT
#define CHAR_BIT 8
#endif
#ifndef BITSPERBYTE
#define BITSPERBYTE CHAR_BIT
#endif
#else
?X: On non standard C, try with <values.h>
#include <values.h>
#ifndef BITSPERBYTE
#define BITSPERBYTE 8
#endif
#endif
```

```
int main()
{
 printf("%d\n", BITSPERBYTE);
}
EOCP
 set try
 if eval $compile_ok; then
  dflt=`$run ./try`
 else
  dflt='8'
  echo "(I can't seem to compile the test program.  Guessing...)"
 fi
 ;;
*)
 dflt="$bitpbyte"
 ;;
esac
rp="What is the length of a byte (in bits)?"
. ./myread
bitpbyte="$ans"
$rm -f try.c try
```

Found in path(s):
*
 /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/bitpbyte.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dup2.C,v 3.0.1.1 1994/01/24 13:58:37 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
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*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* Original Author: Larry Wall <lwall@netlabs.com>
*
* $Log: dup2.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:37  ram
* patch16: created
*
*/
```

Found in path(s):

* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/dup2.C
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Instruct.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:02:55  ram
?RCS: patch61: logname / whoami sequence rewritten to use case
?RCS:
?RCS: Revision 3.0.1.2  1995/02/15  14:11:34  ram
?RCS: patch51: author name now appears at the end of the paragraph (WED)
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:12:05  ram
?RCS: patch45: now documents the & escape to turn -d on at the read prompt
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X:
 This unit spew out the directions that we want everyone to read.  I try to
?X: keep the first "pagefull" much less than a page since they don't know it
?X: isn't going to go shooting off the top of the screen, and we don't want
?X: to panic them yet.
?X:
?MAKE:Instruct: Begin Myread Configdir contains
?MAKE: -pick wipe $@ %<
?T:user needman firsttime
: general instructions
needman=true
firsttime=true
user=`(logname) 2>/dev/null`
case "$user" in
") user=`whoami 2>&1`;;
esac
if $contains "^$user\$" ../.config/instruct >/dev/null 2>&1; then
 firsttime=false
 echo " "
 rp='Would you like to see the instructions?'
```

```
 dflt=n
 . ./myread
 case "$ans" in
 [yY]*) ;;
 *) needman=false;;
 esac
fi
if $needman; then
 cat <<EOH

This installation shell script will examine your system and ask you questions
to determine how the <PACKAGENAME> package should be installed. If you get
stuck on a question, you may use a ! shell escape to start a subshell or
execute a command.  Many of the questions will have
 default answers in square
brackets; typing carriage return will give you the default.

On some of the questions which ask for file or directory names you are allowed
to use the ~name construct to specify the login directory belonging to "name",
even if you don't have a shell which knows about that.  Questions where this is
allowed will be marked "(~name ok)".

EOH
 rp="
 dflt='Type carriage return to continue'
 . ./myread
 cat <<'EOH'

The prompter used in this script allows you to use shell variables and
backticks in your answers.  You may use $1, $2, etc...  to refer to the words
in the default answer, as if the default line was a set of arguments given to a
script shell.  This means you may also use $* to repeat the whole default line,
so you do not have to re-type everything to add something to the default.

Everytime there is a substitution, you will have to confirm.  If there is an
error (e.g. an unmatched backtick), the default answer will remain unchanged
and you will be prompted
 again.

If you are in a hurry, you may run 'Configure -d'.  This will bypass nearly all
the questions and use the computed defaults (or the previous answers if there
was already a config.sh file). Type 'Configure -h' for a list of options.
You may also start interactively and then answer '& -d' at any prompt to turn
on the non-interactive behaviour for the remainder of the execution.

EOH
 . ./myread
 cat <<EOH
```

```
Much effort has been expended to ensure that this shell script will run on any
Unix system.  If despite that it blows up on yours, your best bet is to edit
Configure and run it again.  If you can't run Configure for some reason,
you'll have to generate a config.sh file by hand.  Whatever problems you
have, let me (<MAINTLOC>) know how I blew it.

This installation script affects things in two ways:

1) it may do direct variable substitutions on some of the files included
  in this kit.
2) it builds a config.h file for inclusion in C programs.  You may edit
  any of these
 files as the need arises after running this script.

If you make a mistake on a question, there is no easy way to back up to it
currently.  The easiest thing to do is to edit config.sh and rerun all the SH
files.  Configure will offer to let you do this before it runs the SH files.

EOH
?X: In case they played with the prompter...
 dflt='Type carriage return to continue'
 . ./myread
 case "$firsttime" in
 true) echo $user >>../.config/instruct;;
 esac
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Instruct.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_euc2jis.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_euc2jis.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_euc2jis: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_euc2jis:
?S: This variable conditionally defines the HAS_EUC2JIS symbol, which
?S: indicates to the C program that the euc2jis() routine is available
?S: to convert EUC to JIS.
?S:.
?C:HAS_EUC2JIS:
?C: This symbol, if defined, indicates that the euc2jis routine is
?C: available to convert
 EUC to JIS.
?C:.
?H:#$d_euc2jis HAS_EUC2JIS  /**/
?H:.
?LINT:set d_euc2jis
: see if euc2jis exists
set euc2jis d_euc2jis
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_euc2jis.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_alarm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_alarm.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:06:58  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_alarm: Inlibc
?MAKE: -pick add $@ %<
?S:d_alarm:
?S: This variable conditionally defines the HAS_ALARM symbol, which
?S: indicates to the C program that the alarm() routine is available.
?S:.
?C:HAS_ALARM :
?C: This symbol, if defined, indicates that the alarm routine is
?C: available.
```

```
?C:.
?H:#$d_alarm
 HAS_ALARM  /**/
?H:.
?LINT:set d_alarm
: see if alarm exists
set alarm d_alarm
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_alarm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysselct.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysselct.U,v $
?RCS: Revision 3.0.1.1  1993/08/25  14:01:33  ram
?RCS: patch6: added default for i_sysselct
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Look wether <sys/select.h> exists
?X:
?MAKE:i_sysselct: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysselct:
?S: This variable conditionally defines I_SYS_SELECT, which indicates
?S: to the C program that it should include <sys/select.h> in
 order to
?S: get the definition of struct timeval.
?S:.
?C:I_SYS_SELECT (I_SYSSELECT):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/select.h> in order to get definition of struct timeval.
?C:.
?H:#$i_sysselct I_SYS_SELECT /**/
?H:.
```

```
?D:i_sysselct="
?LINT:set i_sysselct
: see if sys/select.h has to be included
set sys/select.h i_sysselct
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sysselct.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_siglist.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_siglist.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:22  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_siglist: Csym Setvar
?MAKE: -pick add $@ %<
?S:d_siglist:
?S: This variable conditionally defines HAS_SYS_SIGLIST if sys_siglist[] is
?S: available to translate signal numbers to strings.
?S:.
?C:HAS_SYS_SIGLIST (SYS_SIGLIST):
?C: This symbol, if defined, indicates that the sys_siglist array is
?C: available to translate signal numbers
 to strings.
?C:.
?H:#$d_siglist HAS_SYS_SIGLIST  /**/
?H:.
?LINT:set d_siglist
: see if sys_siglist[] exist
echo " "
if set sys_siglist val -a d_siglist; eval $csym; $val; then
 echo "You have sys_siglist[] for signal description." >&4
 val="$define"
else
 echo "You don't have sys_siglist[]." >&4
 val="$undef"
fi
```

```
set d_siglist
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_siglist.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_atanh: Inlibc
?MAKE: -pick add $@ %<
?S:d_atanh:
?S: This variable conditionally defines the HAS_ATANH symbol, which
?S: indicates to the C program that the atanh() routine is available.
?S:.
?C:HAS_ATANH:
?C: This symbol, if defined, indicates that the atanh routine is
?C: available to do the inverse hyperbolic tangent function.
?C:.
?H:#$d_atanh HAS_ATANH  /**/
?H:.
?LINT:set d_atanh
: see if atanh exists
set atanh d_atanh
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_atanh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_memccpy.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memccpy.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_memccpy: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_memccpy:
?S: This variable conditionally defines the HAS_MEMCCPY symbol, which
?S: indicates to the C program that the memccpy() routine is available
?S: to copy a character into a block of memory.
?S:.
?C:HAS_MEMCCPY (MEMCCPY):
?C: This symbol, if defined, indicates that the memccpy routine
 is available
?C: to copy a character into a block of memory.  Otherwise you should
?C: roll your own.
?C:.
?H:#$d_memccpy HAS_MEMCCPY  /**/
?H:.
?LINT:set d_memccpy
: see if memccpy exists
set memccpy d_memccpy
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_memccpy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Findhdr.U,v 3.0.1.2 1994/10/29 15:53:08 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Thomas Neumann <tom@smart.bo.open.de>
?RCS:
?RCS: $Log: Findhdr.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  15:53:08  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:03:56  ram
?RCS: patch23: cppminus must be after other cppflags, not before
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a findhdr script which
```

```
 is used to locate the header
?X: files in $usrinc or other stranger places using cpp capabilities. The
?X: script is given an include file base name, like 'stdio.h' or 'sys/file.h'
?X: and it returns the full path of the include file and a zero status or an
?X: empty string with an error status if the file could not be located.
?X:
?MAKE:Findhdr: grep test tr rm incpth awk cat startsh \
 cppstdin cppminus +cppflags osname
?MAKE: -pick add $@ %<
?LINT:extern cppfilter
?LINT:define fieldn
?S:fieldn:
?S: This variable is used internally by Configure. It contains the position
?S: of the included file name in cpp output. That is to say, when cpp
?S: pre-processes a #include <file> line, it replaces it by a # line which
?S: contains the original position in the input file and the full name of
?S: included file, between "quotes".
?S:.
?V:fieldn
?F:./findhdr !fieldn
?T:cline pos wanted name awkprg usrincdir status testaccess
: determine filename position in cpp output
echo " "
echo "Computing
 filename position in cpp output for #include directives..." >&4
case "$osname" in
amigaos) fieldn=3 ;;  # Workaround for a bug in abc (pdksh).
esac
case "$fieldn" in
")
case "$osname" in
vos) testaccess=-e ;;
*)   testaccess=-r ;;
esac
echo '#include <stdio.h>' > foo.c
$cat >fieldn <<EOF
$startsh
$cppstdin $cppflags $cppminus <foo.c 2>/dev/null | \
$grep '^[  ]*#.*stdio\.h' | \
while read cline; do
 pos=1
 set \$cline
 while $test \$# -gt 0; do
  if $test $testaccess \`echo \$1 | $tr -d ""\`; then
   echo "\$pos"
   exit 0
  fi
  shift
```

```
  pos=\`expr \$pos + 1\`
 done
done
EOF
chmod +x fieldn
fieldn=`./fieldn`
$rm -f foo.c fieldn
;;
esac
case $fieldn in
") pos='???';;
1) pos=first;;
2) pos=second;;
3) pos=third;;
*) pos="${fieldn}th";;
esac
echo "Your cpp writes the filename in the $pos field of the line."

?X: To locate a header file, we cannot simply check for $usrinc/file.h, since
?X: some machine have the headers in weird places and our only hope is that
?X: the C pre-processor
 will know how to find those headers. Thank you NexT!
: locate header file
$cat >findhdr <<EOF
$startsh
wanted=\$1
name=''
for usrincdir in $incpth
do
 if test -f \$usrincdir/\$wanted; then
  echo "\$usrincdir/\$wanted"
  exit 0
 fi
done
awkprg='{ print \$$fieldn }'
echo "#include <\$wanted>" > foo\$\$.c
$cppstdin $cppminus $cppflags < foo\$\$.c 2>/dev/null | \
$cppfilter $grep "^[  ]*#.*\$wanted" | \
while read cline; do
 name=\`echo \$cline | $awk "\$awkprg" | $tr -d '"'\`
 case "\$name" in
 *[/\\\\]\$wanted) echo "\$name"; exit 1;;
 *[\\\\/]\$wanted) echo "\$name"; exit 1;;
 *) exit 2;;
 esac;
done;
#
# status = 0: grep returned 0 lines, case statement not executed
```

```
# status = 1: headerfile found
# status = 2: while loop executed, no headerfile found
#
status=\$?
$rm -f foo\$\$.c;
if test \$status -eq 1; then
 exit 0;
fi
exit 1
EOF
chmod +x findhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Findhdr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_castneg.U,v $
?RCS: Revision 3.0.1.2  1995/05/12  12:11:21  ram
?RCS: patch54: made sure cc and ccflags are conditional dependencies
?RCS: patch54: added improved test case for Interactive Unix
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:10:50  ram
?RCS: patch36: don't forget to tell user about compilation failures (ADO)
?RCS: patch36: declare signal handler correctly using 'signal_t' (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Can
 the compiler cast negative / odd floats to unsigned values.
?X:
?MAKE:d_castneg castflags: cat +cc +ccflags rm_try Setvar signal_t
?MAKE: -pick add $@ %<
?S:d_castneg:
?S: This variable conditionally defines CASTNEG, which indicates
?S: wether the C compiler can cast negative float to unsigned.
```

```
?S:.
?S:castflags:
?S: This variable contains a flag that precise difficulties the
?S: compiler has casting odd floating values to unsigned long:
?S:  0 = ok
?S:  1 = couldn't cast < 0
?S:  2 = couldn't cast >= 0x80000000
?S:  4 = couldn't cast in argument expression list
?S:.
?C:CASTNEGFLOAT:
?C: This symbol is defined if the C compiler can cast negative
?C: numbers to unsigned longs, ints and shorts.
?C:.
?C:CASTFLAGS:
?C: This symbol contains flags that say what difficulties the compiler
?C: has casting odd floating values to unsigned long:
?C:  0 = ok
?C:  1 = couldn't cast < 0
?C:  2 = couldn't cast >= 0x80000000
?C:  4 = couldn't cast in argument expression list
?C:.
?H:#$d_castneg CASTNEGFLOAT  /**/
?H:#define
 CASTFLAGS $castflags  /**/
?H:.
?F:!try
?LINT:set d_castneg
: check for ability to cast negative floats to unsigned
echo " "
echo 'Checking whether your C compiler can cast negative float to unsigned.' >&4
$cat >try.c <<EOCP
#include <sys/types.h>
#include <signal.h>
$signal_t blech() { exit(7); }
$signal_t blech_in_list() { exit(4); }
unsigned long dummy_long(p) unsigned long p; { return p; }
unsigned int dummy_int(p) unsigned int p; { return p; }
unsigned short dummy_short(p) unsigned short p; { return p; }
int main()
{
 double f = -123.;
 unsigned long along;
 unsigned int aint;
 unsigned short ashort;
 int result = 0;

 signal(SIGFPE, blech);
 along = (unsigned long)f;
```

```
 aint = (unsigned int)f;
 ashort = (unsigned short)f;
 if (along != (unsigned long)-123)
  result |= 1;
 if (aint != (unsigned int)-123)
  result |= 1;
 if (ashort != (unsigned short)-123)
  result |= 1;
 f = (double)0x40000000;
 f = f + f;
 along = 0;
 along = (unsigned long)f;
 if
 (along != 0x80000000)
  result |= 2;
 f -= 1.;
 along = 0;
 along = (unsigned long)f;
 if (along != 0x7fffffff)
  result |= 1;
 f += 2.;
 along = 0;
 along = (unsigned long)f;
 if (along != 0x80000001)
  result |= 2;
 if (result)
  exit(result);
?X:
?X: The following is a test for Interactive Unix Version 4.1, which
?X: has an 'improved' compiler which can correctly cast negative
?X: floats in expression lists, but apparently not in argument lists.
?X: Contributed by Winfried Koenig <win@incom.rhein-main.de>
?X:
 signal(SIGFPE, blech_in_list);
 f = 123.;
 along = dummy_long((unsigned long)f);
 aint = dummy_int((unsigned int)f);
 ashort = dummy_short((unsigned short)f);
 if (along != (unsigned long)123)
  result |= 4;
 if (aint != (unsigned int)123)
  result |= 4;
 if (ashort != (unsigned short)123)
  result |= 4;
 exit(result);

}
EOCP
```

```
if $cc $ccflags -o try try.c >/dev/null 2>&1; then
 ./try
 castflags=$?
else
 echo "(I can't seem to compile the test program--assuming it can't)"
 castflags=7
fi
case
 "$castflags" in
0) val="$define"
 echo "Yup, it can."
 ;;
*) val="$undef"
 echo "Nope, it can't."
 ;;
esac
set d_castneg
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_castneg.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:uselargefiles \
 ccflags_uselargefiles \
 ldflags_uselargefiles \
 libswanted_uselargefiles: \
 Myread Oldconfig Setvar test lseeksize fpossize \
 fpostype Compile echo n c cat lseektype rm_try run \
 use64bitint use64bitall i_stdlib
?MAKE: -pick add $@ %<
?Y:TOP
?S:uselargefiles:
?S: This variable conditionally defines the USE_LARGE_FILES symbol,
?S: and indicates that large file interfaces should be used when
?S: available.
?S:.
?S:ccflags_uselargefiles:
?S: This variable contains the compiler flags needed by large file builds
```

```
?S: and added to ccflags by hints files.
?S:.
?S:ldflags_uselargefiles:
?S: This variable contains the loader flags needed by large file builds
?S: and added to ldflags by
 hints files.
?S:.
?S:libswanted_uselargefiles:
?S: This variable contains the libraries needed by large file builds
?S: and added to ldflags by hints files.  It is a space separated list
?S: of the library names without the "lib" prefix or any suffix, just
?S: like libswanted..
?S:.
?C:USE_LARGE_FILES:
?C: This symbol, if defined, indicates that large file support
?C: should be used when available.
?C:.
?H:?%<:#ifndef USE_LARGE_FILES
?H:?%<:#$uselargefiles USE_LARGE_FILES  /**/
?H:?%<:#endif
?H:.
?INIT:ccflags_uselargefiles="
?INIT:ldflags_uselargefiles="
?INIT:libswanted_uselargefiles="
?T:yyy zzz
?F:!uselargefiles.cbu !try
?LINT:change lseeksize
?LINT:change fpossize
?LINT:extern uselfs
?LINT:use use64bitint
?LINT:use use64bitall
: Check for large file support
# Backward compatibility (uselfs is deprecated).
case "$uselfs" in
"$define"|true|[yY]*)
 cat <<EOM >&4

*** Configure -Duselfs is deprecated, using -Duselargefiles instead.
EOM
 uselargefiles="$define"
 ;;
esac

case "$lseeksize:$fpossize"
 in
8:8) cat <<EOM

You can have files larger than 2 gigabytes.
```

```
EOM
  val="$define" ;;
*)    case "$uselargefiles" in
  "$undef"|false|[nN]*) dflt='n' ;;
  *) dflt='y' ;;
  esac
  cat <<EOM

Perl can be built to understand large files (files larger than 2 gigabytes)
on some systems.  To do so, Configure can be run with -Duselargefiles.

If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
  rp='Try to understand large files, if available?'
  . ./myread
  case "$ans" in
  y|Y) val="$define" ;;
  *) val="$undef"  ;;
  esac
  ;;
esac
set uselargefiles
eval $setvar
: Look for a hint-file generated 'call-back-unit'.  If the
: user has specified that a large files perl is to be built,
: we may need to set or change some other defaults.
if $test -f uselargefiles.cbu; then
 echo "Your platform has some specific hints regarding large file builds, using them..."
 . ./uselargefiles.cbu
fi
case "$uselargefiles" in
"$define")
 if $test -f uselargefiles.cbu;
 then
  echo " "
  echo "Rechecking to see how big your file offsets are..." >&4
  $cat >try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
int main()
{
   printf("%d\n", (int)sizeof($lseektype));
   return(0);
}
EOCP
  set try
  if eval $compile_ok; then
   lseeksize=`$run ./try`
```

```
  $echo "Your file offsets are now $lseeksize bytes long."
 else
  dflt="$lseeksize"
  echo " "
  echo "(I can't seem to compile the test program.  Guessing...)"
  rp="What is the size of your file offsets (in bytes)?"
  . ./myread
  lseeksize="$ans"
 fi
 case "$fpostype" in
 *_t) zzz="$fpostype" ;;
 *)   zzz="fpos_t" ;;
 esac
 $echo $n "Rechecking the size of $zzz...$c" >&4
 $cat > try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() {
   printf("%d\n", (int)sizeof($fpostype));
   return(0);
}
EOCP
 set try
 if eval $compile_ok; then
  yyy=`$run ./try`
  dflt="$lseeksize"
  case "$yyy" in
  ") echo
" "
   echo "(I can't execute the test program--guessing $fpossize.)" >&4
   ;;
  *) fpossize=$yyy
   echo " $fpossize bytes." >&4
   ;;
  esac
 else
  dflt="$fpossize"
  echo " "
  echo "(I can't compile the test program.  Guessing...)" >&4
  rp="What is the size of your file positions (in bytes)?"
  . ./myread
  fpossize="$ans"
 fi
 $rm_try
```

```
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/uselfs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Typedef.U,v 3.0.1.3 1995/07/25 13:42:07 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Typedef.U,v $
?RCS: Revision 3.0.1.3  1995/07/25  13:42:07  ram
?RCS: patch56: added backslash escapes within evals to prevent space problems
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:01:16  ram
?RCS: patch36: don't clobber visible 'val' variable, use 'varval' instead
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:05:14  ram
?RCS: patch32: created
?RCS:
?X:
?X: This unit checks for the definition of a given typedef.
?X:
?X: To use it, say:
?X: set typedef
 val_t default [includes]
?X: eval $typedef
?X:
?MAKE:Typedef: cppstdin cppminus cppflags rm sed contains Oldconfig Myread
?MAKE: -pick add $@ %<
?LINT:define typedef
?LINT:define typedef_ask
?V:typedef typedef_ask
?S:typedef:
?S: This shell variable is used internally by Configure to check
?S: whether a given typedef is defined or not. A typical use is:
?S:  set typedef val_t default [includes]
?S:  eval $typedef
?S: That will return val_t set to default if the typedef was not found,
```

```
?S: to typedef otherwise. If no includes are specified, look in sys/types.h.
?S:.
?S:typedef_ask:
?S: This shell variable is used internally by Configure to check
?S: whether a given typedef is defined or not.  If it is not defined,
?S: this will call the ./myread script to prompt for an answer.
?S: It is intended to be used to avoid unnecessary prompts.
?S: A typical use is
?S:  rp="What is the type for file position used by fsetpos()?"
?S:  set fpos_t fpostype long stdio.h sys/types.h
?S:  eval $typedef_ask
?S: This
 will set fpostype=fpos_t, if fpos_t is available.  Otherwise
?S: it will call myread with a default of 'long', and a prompt of $rp.
?S:.
?T:type var def inclist varval inc
?F:!temp.c
: define an is-a-typedef? function
typedef='type=$1; var=$2; def=$3; shift; shift; shift; inclist=$@;
case "$inclist" in
"") inclist="sys/types.h";;
esac;
eval "varval=\$$var";
case "$varval" in
"")
 $rm -f temp.c;
 for inc in $inclist; do
  echo "#include <$inc>" >>temp.c;
 done;
?X: Maybe it's a #define instead of a typedef.
 echo "#ifdef $type" >> temp.c;
 echo "printf(\"We have $type\");" >> temp.c;
 echo "#endif" >> temp.c;
 $cppstdin $cppflags $cppminus < temp.c >temp.E 2>/dev/null;
 if $contains $type temp.E >/dev/null 2>&1; then
  eval "$var=\$type";
 else
  eval "$var=\$def";
 fi;
 $rm -f temp.?;;
*) eval "$var=\$varval";;
esac'

?X: Originally, I eval'd $typedef and then checked the results against
?X: $type.  Unfortunately, it then became complicated to check
?X: whether you are re-using
 an old config.sh value, and the logic got
?X: so convoluted it became easier to just copy the function above
```

```
?X: and alter it slightly.  A.D.  3/1998
: define an is-a-typedef? function that prompts if the type is not available.
typedef_ask='type=$1; var=$2; def=$3; shift; shift; shift; inclist=$@;
case "$inclist" in
"") inclist="sys/types.h";;
esac;
eval "varval=\$$var";
case "$varval" in
"")
 $rm -f temp.c;
 for inc in $inclist; do
  echo "#include <$inc>" >>temp.c;
 done;
?X: Maybe it's a #define instead of a typedef.
 echo "#ifdef $type" >> temp.c;
 echo "printf(\"We have $type\");" >> temp.c;
 echo "#endif" >> temp.c;
 $cppstdin $cppflags $cppminus < temp.c >temp.E 2>/dev/null;
 echo " " ;
 echo "$rp" | $sed -e "s/What is/Looking for/" -e "s/?/./";
 if $contains $type temp.E >/dev/null 2>&1; then
  echo "$type found." >&4;
  eval "$var=\$type";
 else
  echo "$type NOT found." >&4;
  dflt="$def";
  . ./myread ;
  eval "$var=\$ans";
 fi;
 $rm -f temp.?;;
*) eval "$var=\$varval";;
esac'
```

Found
 in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/Typedef.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: Guess.U,v $
?RCS: Revision 3.0.1.5  1995/07/25  13:37:14  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  15:53:55  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: call ./xenix explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.3  1993/12/15  08:14:35  ram
?RCS: patch15: variable d_bsd was not always set properly
?RCS:
?RCS: Revision 3.0.1.2  1993/08/30  08:57:14  ram
?RCS: patch8: fixed comment which wrongly
 attributed the usrinc symbol
?RCS: patch8: no more ugly messages when no /usr/include/ctype.h
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:37:37  ram
?RCS: patch7: added support for OSF/1 machines
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit hazards some guesses as to what the general nature of the system
?X: is.  The information it collects here is used primarily to establish default
?X: answers to other questions.
?X:
?MAKE:Guess d_eunice d_xenix d_bsd d_linux d_dos d_os2: cat test echo n c \
 contains rm tr Loc eunicefix
?MAKE: -pick add $@ %<
?S:d_eunice:
?S: This variable conditionally defines the symbols EUNICE_SYSTEM, which
?S: alerts the C program that it must deal with ideosyncracies of VMS.
?S:.
?S:d_xenix:
?S: This variable conditionally defines the symbol XENIX_SYSTEM, which alerts
?S: the C program that it runs under Xenix.
?S:.
?S:d_dos:
?S: This symbol conditionally defines the symbol DOS_SYSTEM
 when running on
?S: DOS with DJGPP or Cygwin.
?S:.
?S:d_os2:
?S: This symbol conditionally defines the symbol OS2_SYSTEM when running on
?S: an OS/2 system.
?S:.
```

```
?S:d_bsd:
?S: This symbol conditionally defines the symbol BSD_SYSTEM when running on a
?S: BSD system.
?S:.
?S:d_linux:
?S: This symbol conditionally defines the symbol LINUX_SYSTEM when running
?S: on a Linux system.
?S:.
?C:EUNICE_SYSTEM (EUNICE):
?C: This symbol, if defined, indicates that the program is being compiled
?C: under the EUNICE package under VMS.  The program will need to handle
?C: things like files that don't go away the first time you unlink them,
?C: due to version numbering.  It will also need to compensate for lack
?C: of a respectable link() command.
?C:.
?C:VMS_SYSTEM (VMS):
?C: This symbol, if defined, indicates that the program is running under
?C: VMS.  It is currently only set in conjunction with the EUNICE symbol.
?C:.
?C:XENIX_SYSTEM (XENIX):
?C: This symbol, if defined, indicates that the program
 is running under
?C: Xenix (at least 3.0 ?).
?C:.
?C:DOS_SYSTEM:
?C: This symbol, if defined, indicates that the program is running under
?C: DOS with DJGPP.
?C:.
?C:OS2_SYSTEM:
?C: This symbol, if defined, indicates that the program is running under
?C: an OS/2 system.
?C:.
?C:BSD_SYSTEM:
?C: This symbol, if defined, indicates that the program is running under
?C: a BSD system.
?C:.
?C:LINUX_SYSTEM:
?C: This symbol, if defined, indicates that the program is running under
?C: a Linux system.
?C:.
?H:#$d_eunice EUNICE_SYSTEM  /**/
?H:#$d_eunice VMS_SYSTEM  /**/
?H:#$d_xenix XENIX_SYSTEM  /**/
?H:#$d_dos DOS_SYSTEM  /**/
?H:#$d_os2 OS2_SYSTEM  /**/
?H:#$d_bsd BSD_SYSTEM  /**/
?H:#$d_linux LINUX_SYSTEM  /**/
?H:.
```

```
?F:./bsd ./usg ./v7 ./osf1 ./eunice ./xenix ./venix ./dos ./os2 ./gnu ./linux
?T:xxx DJGPP MACHTYPE
: make some quick guesses about what we are up against
echo " "
$echo $n "Hmm...  $c"
echo exit 1 >bsd
echo exit 1 >usg
echo exit 1 >v7
echo exit 1 >osf1
echo exit 1 >eunice
echo
 exit 1 >xenix
echo exit 1 >venix
echo exit 1 >os2
echo exit 1 >gnu
echo exit 1 >linux
echo exit 1 >dos
d_bsd="$undef"
d_linux="$undef"
d_dos="$undef"
d_os2="$undef"
?X:
?X: Do not use 'usrinc', or we get a circular dependency. because
?X: usrinc is defined in usrinc.U, which relies on us...
?X:
$cat /usr/include/signal.h /usr/include/sys/signal.h >foo 2>/dev/null
if test -f /osf_boot || $contains 'OSF/1' /usr/include/ctype.h >/dev/null 2>&1
then
 echo "Looks kind of like an OSF/1 system, but we'll see..."
 echo exit 0 >osf1
elif test `echo abc | $tr a-z A-Z` = Abc ; then
 xxx=`./loc addbib blurfl $pth`
 if $test -f $xxx; then
 echo "Looks kind of like a USG system with BSD features, but we'll see..."
  echo exit 0 >bsd
  echo exit 0 >usg
 else
  if $contains SIGTSTP foo >/dev/null 2>&1 ; then
   echo "Looks kind of like an extended USG system, but we'll see..."
  else
   echo "Looks kind of like a USG system, but we'll see..."
  fi
  echo exit 0 >usg
 fi
elif $contains SIGTSTP foo >/dev/null
 2>&1 ; then
 echo "Looks kind of like a BSD system, but we'll see..."
 d_bsd="$define"
```

```
 echo exit 0 >bsd
elif
 $rm --version 2>/dev/null >foo;
 $contains "Free Software Foundation" foo >/dev/null
then
 xxx=`uname`
 echo exit 0 >gnu
 echo "Looks kind of like a GNU/$xxx system, but we'll see..."
 if $test X$xxx = XLinux; then
  d_linux="$define"
  echo exit 0 >linux
 fi
else
 echo "Looks kind of like a Version 7 system, but we'll see..."
 echo exit 0 >v7
fi
case "$eunicefix" in
*unixtovms*)
 $cat <<'EOI'
There is, however, a strange, musty smell in the air that reminds me of
something...hmm...yes...I've got it...there's a VMS nearby, or I'm a Blit.
EOI
 echo exit 0 >eunice
 d_eunice="$define"
: it so happens the Eunice I know will not run shell scripts in Unix format
 ;;
*)
 echo " "
 echo "Congratulations.  You aren't running Eunice."
 d_eunice="$undef"
 ;;
esac
case "$p_" in
:) ;;
*)
 $cat <<'EOI'
I have the feeling something is not exactly right, however...don't tell me...
EOI
 if
 test -n "$DJGPP"; then
  case "X${MACHTYPE:-nonesuchmach}" in
  cygwin) echo "hah!... you're running under Cygwin!";;
  *) echo "got it... you're running DOS with DJGPP!";;
  esac
  echo exit 0 >dos
  d_dos="$define"
 else
  $cat <<'EOI'
```

```
lemme think...does HAL ring a bell?...no, of course, you're only running OS/2!
EOI
  echo exit 0 >os2
  d_os2="$define"
 fi
 ;;
esac
if test -f /xenix; then
 echo "Actually, this looks more like a XENIX system..."
 echo exit 0 >xenix
 d_xenix="$define"
else
 echo " "
 echo "It's not Xenix..."
 d_xenix="$undef"
fi
chmod +x xenix
$eunicefix xenix
if test -f /venix; then
 echo "Actually, this looks more like a VENIX system..."
 echo exit 0 >venix
else
 echo " "
 if ./xenix; then
  : null
 else
  echo "Nor is it Venix..."
 fi
fi
chmod +x bsd usg v7 osf1 eunice xenix venix dos os2 gnu linux
$eunicefix bsd usg v7 osf1 eunice xenix venix dos os2 gnu linux
$rm -f foo
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Guess.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:use64bitint use64bitall archname64: Myread Oldconfig Setvar test \
 usemorebits longsize ccflags d_quad uquadtype Compile rm_try run
?MAKE: -pick add $@ %<
```

```
?Y:TOP
?S:use64bitint:
?S: This variable conditionally defines the USE_64_BIT_INT symbol,
?S: and indicates that 64-bit integer types should be used
?S: when available.  The minimal possible 64-bitness
?S: is employed, just enough to get 64-bit integers into Perl.
?S: This may mean using for example "long longs", while your memory
?S: may still be limited to 2 gigabytes.
?S:.
?S:use64bitall:
?S: This variable conditionally defines the USE_64_BIT_ALL symbol,
?S: and indicates that 64-bit integer types should be used
?S: when available.  The maximal
 possible
?S: 64-bitness is employed: LP64 or ILP64, meaning that you will
?S: be able to use more than 2 gigabytes of memory.  This mode is
?S: even more binary incompatible than USE_64_BIT_INT. You may not
?S: be able to run the resulting executable in a 32-bit CPU at all or
?S: you may need at least to reboot your OS to 64-bit mode.
?S:.
?S:archname64:
?S: This variable is used for the 64-bitness part of $archname.
?S:.
?C:USE_64_BIT_INT:
?C: This symbol, if defined, indicates that 64-bit integers should
?C: be used when available.  If not defined, the native integers
?C: will be employed (be they 32 or 64 bits).  The minimal possible
?C: 64-bitness is used, just enough to get 64-bit integers into Perl.
?C: This may mean using for example "long longs", while your memory
?C: may still be limited to 2 gigabytes.
?C:.
?C:USE_64_BIT_ALL:
?C: This symbol, if defined, indicates that 64-bit integers should
?C: be used when available.  If not defined, the native integers
?C: will be used (be
 they 32 or 64 bits).  The maximal possible
?C: 64-bitness is employed: LP64 or ILP64, meaning that you will
?C: be able to use more than 2 gigabytes of memory.  This mode is
?C: even more binary incompatible than USE_64_BIT_INT. You may not
?C: be able to run the resulting executable in a 32-bit CPU at all or
?C: you may need at least to reboot your OS to 64-bit mode.
?C:.
?H:?%<:#ifndef USE_64_BIT_INT
?H:?%<:#$use64bitint USE_64_BIT_INT  /**/
?H:?%<:#endif
?H:?%<:#ifndef USE_64_BIT_ALL
?H:?%<:#$use64bitall USE_64_BIT_ALL  /**/
?H:?%<:#endif
```

```
?H:.
?INIT:archname64="
?LINT:extern ccflags
?LINT:use usemorebits
?LINT:extern use64bits
?LINT:extern uselonglong
?LINT:extern uselonglongs
?LINT:extern use64bitints
?LINT:extern use64bitsint
?LINT:extern use64bitsall
?T:libcquad
?F:!try
?F:!use64bitint.cbu
?F:!use64bitall.cbu
: Do we want 64bit support
case "$uselonglong" in
"$define"|true|[yY]*)
 cat <<EOM >&4

*** Configure -Duselonglong is deprecated, using -Duse64bitint instead.
EOM
 use64bitint="$define"
 ;;
esac
case
 "$use64bits" in
"$define"|true|[yY]*)
 cat <<EOM >&4

*** Configure -Duse64bits is deprecated, using -Duse64bitint instead.
EOM
 use64bitint="$define"
 ;;
esac
case "$use64bitints" in
"$define"|true|[yY]*)
 cat <<EOM >&4

*** There is no Configure -Duse64bitints, using -Duse64bitint instead.
EOM
 use64bitint="$define"
 ;;
esac
case "$use64bitsint" in
"$define"|true|[yY]*)
 cat <<EOM >&4

*** There is no Configure -Duse64bitsint, using -Duse64bitint instead.
```

```
EOM
 use64bitint="$define"
 ;;
esac
case "$uselonglongs" in
"$define"|true|[yY]*)
 cat <<EOM >&4

*** There is no Configure -Duselonglongs, using -Duse64bitint instead.
EOM
 use64bitint="$define"
 ;;
esac
case "$use64bitsall" in
"$define"|true|[yY]*)
 cat <<EOM >&4

*** There is no Configure -Duse64bitsall, using -Duse64bitall instead.
EOM
 use64bitall="$define"
 ;;
esac

case "$ccflags" in
*-DUSE_LONG_LONG*|*-DUSE_64_BIT_INT*|*-DUSE_64_BIT_ALL*) use64bitint="$define";;
esac
case "$use64bitall" in
"$define"|true|[yY]*)
 use64bitint="$define" ;;
esac

case "$longsize" in
8) cat <<EOM

You have natively 64-bit long integers.
EOM
  val="$define"
  ;;
*) case "$use64bitint" in
  "$define"|true|[yY]*) dflt='y';;
  *) dflt='n';;
  esac
  case "$d_quad" in
  "$define") ;;
  *) dflt='n' ;;
  esac
  cat <<EOM
```

```
Perl can be built to take advantage of 64-bit integer types
on some systems.  To do so, Configure can be run with -Duse64bitint.
Choosing this option will most probably introduce binary incompatibilities.

If this doesn't make any sense to you, just accept the default '$dflt'.
(The default has been chosen based on your configuration.)
EOM
  rp='Try to use 64-bit integers, if available?'
  . ./myread
  case "$ans" in
  [yY]*) val="$define" ;;
  *)     val="$undef"  ;;
  esac
  ;;
esac
set use64bitint
eval $setvar

case "$use64bitall" in
"$define"|true|[yY]*) dflt='y' ;;
*) case "$longsize" in
  8) dflt='y' ;;
  *) dflt='n' ;;
  esac
  ;;
esac
cat <<EOM

You may also
 choose to try maximal 64-bitness.  It means using as much
64-bitness as possible on the platform.  This in turn means even more
binary incompatibilities.  On the other hand, your platform may not
have any more 64-bitness available than what you already have chosen.

If this doesn't make any sense to you, just accept the default '$dflt'.
(The default has been chosen based on your configuration.)
EOM
rp='Try to use maximal 64-bit support, if available?'
. ./myread
case "$ans" in
[yY]*) val="$define" ;;
*)     val="$undef"  ;;
esac
set use64bitall
eval $setvar
case "$use64bitall" in
"$define")
 case "$use64bitint" in
```

```
 "$undef")
  cat <<EOM

Since you have chosen a maximally 64-bit build, I'm also turning on
the use of 64-bit integers.
EOM
  use64bitint="$define" ;;
 esac
 ;;
esac

: Look for a hint-file generated 'call-back-unit'.  If the
: user has specified that a 64-bit perl is to be built,
: we may need to set or change some other defaults.
if $test -f use64bitint.cbu; then
 echo "Your
 platform has some specific hints regarding 64-bit integers, using them..."
 . ./use64bitint.cbu
fi
case "$use64bitint" in
"$define"|true|[yY]*)
 : This test was common to all the OpenBSD forks, and seems harmless for
 : other platforms:
 echo " "
 echo "Checking if your C library has broken 64-bit functions..." >&4
 cat >try.c <<EOCP
#include <stdio.h>
typedef $uquadtype myULL;
int main (void)
{
   struct {
 double d;
 myULL  u;
   } *p, test[] = {
 {4294967303.15, 4294967303ULL},
 {4294967294.2,  4294967294ULL},
 {4294967295.7,  4294967295ULL},
 {0.0, 0ULL}
   };
   for (p = test; p->u; p++) {
 myULL x = (myULL)p->d;
 if (x != p->u) {
     printf("buggy\n");
     return 0;
 }
   }
   printf("ok\n");
   return 0;
```

```
}
EOCP
 set try
 if eval $compile_ok; then
     libcquad=`$run ./try`
     echo "Your C library's 64-bit functions are $libcquad."
 else
     echo "(I can't seem to compile the test program.)"
     echo "Assuming that your C library's 64-bit functions are ok."
     libcquad="ok"
 fi
 $rm_try

 case
 "$libcquad" in
     buggy*)
  cat >&4 <<EOM

*** You have a C library with broken 64-bit functions.
*** 64-bit support does not work reliably in this configuration.
*** Please rerun Configure without -Duse64bitint and/or -Dusemorebits.
*** Cannot continue, aborting.

EOM
  exit 1
  ;;
 esac
 case "$longsize" in
 4) case "$archname64" in
    ") archname64=64int ;;
    esac
    ;;
 esac
 ;;
esac

: Look for a hint-file generated 'call-back-unit'.  If the
: user has specified that a maximally 64-bit perl is to be built,
: we may need to set or change some other defaults.
if $test -f use64bitall.cbu; then
 echo "Your platform has some specific hints regarding 64-bit builds, using them..."
 . ./use64bitall.cbu
fi
case "$use64bitall" in
"$define"|true|[yY]*)
 case "$longsize" in
 4) case "$archname64" in
    "|64int) archname64=64all ;;
```

```
    esac
    ;;
 esac
 ;;
esac

case "$d_quad:$use64bitint" in
$undef:$define)
 cat >&4 <<EOF

*** You have chosen to use 64-bit
 integers,
*** but none can be found.
*** Please rerun Configure without -Duse64bitint and/or -Dusemorebits.
*** Cannot continue, aborting.

EOF
 exit 1
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/use64bits.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: gidtype.U,v 3.0.1.3 1994/08/29 16:21:44 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: gidtype.U,v $
?RCS: Revision 3.0.1.3  1994/08/29  16:21:44  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS: patch32: removed useless usage of Setvar (for now)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:21:07  ram
?RCS: patch27: added lint hint
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:01:51  ram
?RCS: patch23: protected gidtype setting via setvar (ADO)
?RCS: patch23: made Gid_t comment more explicit (ADO)
?RCS:
```

```
?RCS: Revision
 3.0  1993/08/18  12:08:11  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:gidtype: Myread Typedef Findhdr
?MAKE: -pick add $@ %<
?S:gidtype:
?S: This variable defines Gid_t to be something like gid_t, int,
?S: ushort, or whatever type is used to declare the return type
?S: of getgid().  Typically, it is the type of group ids in the kernel.
?S:.
?C:Gid_t (GIDTYPE):
?C: This symbol holds the return type of getgid() and the type of
?C: argument to setrgid() and related functions.  Typically,
?C: it is the type of group ids in the kernel. It can be int, ushort,
?C: gid_t, etc... It may be necessary to include <sys/types.h> to get
?C: any typedef'ed information.
?C:.
?H:#define Gid_t $gidtype  /* Type for getgid(), etc... */
?H:.
?T:xxx
: see what type gids are declared as in the kernel
echo " "
echo "Looking for the type for group ids returned by getgid()."
set gid_t gidtype xxx stdio.h sys/types.h
eval $typedef
case "$gidtype" in
xxx)
 xxx=`./findhdr sys/user.h`
 set `grep
 'groups\[NGROUPS\];' "$xxx" 2>/dev/null` unsigned short
 case $1 in
 unsigned) dflt="$1 $2" ;;
 *) dflt="$1" ;;
 esac
 ;;
*) dflt="$gidtype";;
esac
case "$gidtype" in
gid_t) echo "gid_t found." ;;
*) rp="What is the type for group ids returned by getgid()?"
 . ./myread
 gidtype="$ans"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/U/typedefs/gidtype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_fp.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_fp: Inhdr
?MAKE: -pick add $@ %<
?S:i_fp:
?S: This variable conditionally defines the I_FP symbol, and indicates
?S: whether a C program should include <fp.h>.
?S:.
?C:I_FP:
?C: This symbol, if defined, indicates that <fp.h> exists and
?C: should be included.
?C:.
?H:#$i_fp I_FP  /**/
?H:.
?LINT:set i_fp
: see if this is a fp.h system
set fp.h i_fp
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_fp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_gdbm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_gdbm.U,v $
?RCS: Revision 3.0.1.1  1995/05/12  12:16:39  ram
?RCS: patch54: made more robust by checking both header and lib (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:19  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?MAKE:i_gdbm: Inhdr Inlibc Setvar
?MAKE: -pick add $@ %<
?S:i_gdbm (d_gdbm):
?S: This variable conditionally defines the I_GDBM symbol, which
?S: indicates to the C program that <gdbm.h> exists and should
?S: be included.
?S:.
?C:I_GDBM
 (HAS_GDBM):
?C: This symbol, if defined, indicates that <gdbm.h> exists and should
?C: be included.
?C:.
?H:#$i_gdbm I_GDBM /**/
?H:.
?T:t_gdbm d_gdbm_open
?LINT:set i_gdbm
: see if gdbm.h is available
?X: t_gdbm is a tentative check. We might just have the .h, not the lib -- ADO
set gdbm.h t_gdbm
eval $inhdr
case "$t_gdbm" in
$define)
 : see if gdbm_open exists
 set gdbm_open d_gdbm_open
 eval $inlibc
 case "$d_gdbm_open" in
 $undef)
  t_gdbm="$undef"
  echo "We won't be including <gdbm.h>"
  ;;
 esac
 ;;
esac
val="$t_gdbm"
set i_gdbm
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_gdbm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_random_r.U,v 0RCS:
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?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_random_r random_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_stdlib extern_C
?MAKE: -pick add $@ %<
?S:d_random_r:
?S: This variable conditionally defines the HAS_RANDOM_R symbol,
?S: which indicates to the C program that the random_r()
?S: routine is available.
?S:.
?S:random_r_proto:
?S: This variable encodes the prototype of random_r.
?S: It is zero if d_random_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_random_r
?S: is defined.
?S:.
?C:HAS_RANDOM_R:
?C: This symbol, if defined, indicates that the random_r routine
?C: is available to random re-entrantly.
?C:.
?C:RANDOM_R_PROTO:
?C: This
 symbol encodes the prototype of random_r.
?C: It is zero if d_random_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_random_r
?C: is defined.
?C:.
?H:#$d_random_r HAS_RANDOM_R /**/
?H:#define RANDOM_R_PROTO $random_r_proto /**/
?H:.
?T:try hdrs d_random_r_proto
: see if random_r exists
set random_r d_random_r
eval $inlibc
case "$d_random_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_stdlib stdlib.h"
 case "$d_random_r_proto:$usethreads" in
 ":define") d_random_r_proto=define
  set d_random_r_proto random_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_random_r_proto" in
 define)
 case "$random_r_proto" in
 "|0) try='int random_r(int*, struct random_data*);'
```

```
 ./protochk "$extern_C $try" $hdrs && random_r_proto=I_iS ;;
 esac
 case "$random_r_proto" in
 "|0) try='int random_r(long*, struct random_data*);'
 ./protochk "$extern_C $try" $hdrs && random_r_proto=I_lS ;;
 esac
 case "$random_r_proto" in
 "|0)
 try='int random_r(struct random_data*, int32_t*);'
 ./protochk "$extern_C $try" $hdrs && random_r_proto=I_St ;;
 esac
 case "$random_r_proto" in
 "|0) d_random_r=undef
  random_r_proto=0
  echo "Disabling random_r, cannot determine prototype." >&4 ;;
 * ) case "$random_r_proto" in
  REENTRANT_PROTO*) ;;
  *) random_r_proto="REENTRANT_PROTO_$random_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "random_r has no prototype, not using it." >&4 ;;
  esac
  d_random_r=undef
  random_r_proto=0
  ;;
 esac
 ;;
*) random_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_random_r.U
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.

```
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_casti32.U,v $
?RCS: Revision 3.0.1.3  1995/05/12  12:10:45  ram
?RCS: patch54: made sure cc and ccflags are conditional dependencies
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:09:37  ram
?RCS: patch36: declare signal handler correctly (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:06  ram
?RCS: patch32: created by ADO
?RCS:
?X:
?X: Can the compiler cast large floats to 32-bit integers?
?X:
?MAKE:d_casti32: cat
 +cc +ccflags rm_try intsize Setvar test signal_t
?MAKE: -pick add $@ %<
?S:d_casti32:
?S: This variable conditionally defines CASTI32, which indicates
?S: whether the C compiler can cast large floats to 32-bit ints.
?S:.
?C:CASTI32:
?C: This symbol is defined if the C compiler can cast negative
?C: or large floating point numbers to 32-bit ints.
?C:.
?T:xxx yyy
?H:#$d_casti32 CASTI32  /**/
?H:.
?F:!try
?LINT:set d_casti32
: check for ability to cast large floats to 32-bit ints.
echo " "
echo 'Checking whether your C compiler can cast large floats to int32.' >&4
if $test "$intsize" -eq 4; then
 xxx=int
else
 xxx=long
fi
$cat >try.c <<EOCP
#include <sys/types.h>
#include <signal.h>
$signal_t blech() { exit(3); }
int main()
{
 $xxx i32;
 double f;
```

```
 int result = 0;
 signal(SIGFPE, blech);

 f = (double) 0x7fffffff;
 f = 10 * f;
 i32  = ($xxx) f;

 if (i32 != ($xxx) f)
  result |= 1;
 exit(result);
}
EOCP
if $cc $ccflags -o try try.c >/dev/null 2>&1; then
 ./try
 yyy=$?
else
 echo "(I can't
 seem to compile the test program--assuming it can't)"
 yyy=1
fi
case "$yyy" in
0) val="$define"
 echo "Yup, it can."
 ;;
*) val="$undef"
 echo "Nope, it can't."
 ;;
esac
set d_casti32
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_casti32.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sethostent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_sethostent_r sethostent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
```

```
?S:d_sethostent_r:
?S: This variable conditionally defines the HAS_SETHOSTENT_R symbol,
?S: which indicates to the C program that the sethostent_r()
?S: routine is available.
?S:.
?S:sethostent_r_proto:
?S: This variable encodes the prototype of sethostent_r.
?S: It is zero if d_sethostent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_sethostent_r
?S: is defined.
?S:.
?C:HAS_SETHOSTENT_R:
?C: This symbol, if defined, indicates that the sethostent_r routine
?C: is
 available to sethostent re-entrantly.
?C:.
?C:SETHOSTENT_R_PROTO:
?C: This symbol encodes the prototype of sethostent_r.
?C: It is zero if d_sethostent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_sethostent_r
?C: is defined.
?C:.
?H:#$d_sethostent_r HAS_SETHOSTENT_R /**/
?H:#define SETHOSTENT_R_PROTO $sethostent_r_proto /**/
?H:.
?T:try hdrs d_sethostent_r_proto
: see if sethostent_r exists
set sethostent_r d_sethostent_r
eval $inlibc
case "$d_sethostent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_sethostent_r_proto:$usethreads" in
 ":define") d_sethostent_r_proto=define
  set d_sethostent_r_proto sethostent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_sethostent_r_proto" in
 define)
 case "$sethostent_r_proto" in
 "|0) try='int sethostent_r(int, struct hostent_data*);'
 ./protochk "$extern_C $try" $hdrs && sethostent_r_proto=I_ID ;;
 esac
 case "$sethostent_r_proto" in
 "|0) try='void
 sethostent_r(int, struct hostent_data*);'
 ./protochk "$extern_C $try" $hdrs && sethostent_r_proto=V_ID ;;
```

```
 esac
 case "$sethostent_r_proto" in
 "|0) d_sethostent_r=undef
  sethostent_r_proto=0
  echo "Disabling sethostent_r, cannot determine prototype." >&4 ;;
 * ) case "$sethostent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) sethostent_r_proto="REENTRANT_PROTO_$sethostent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "sethostent_r has no prototype, not using it." >&4 ;;
  esac
  d_sethostent_r=undef
  sethostent_r_proto=0
  ;;
 esac
 ;;
*) sethostent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_sethostent_r.U
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```
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: gidtype.U,v $
?RCS: Revision 3.0.1.3  1994/08/29  16:21:44  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS: patch32: removed useless usage of Setvar (for now)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:21:07  ram
?RCS: patch27: added lint hint
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:01:51  ram
```

```
?RCS: patch23: protected gidtype setting via setvar (ADO)
?RCS: patch23: made Gid_t comment more explicit (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:11  ram
?RCS:
 Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:gidtype: Myread Typedef Findhdr
?MAKE: -pick add $@ %<
?S:gidtype:
?S: This variable defines Gid_t to be something like gid_t, int,
?S: ushort, or whatever type is used to declare the return type
?S: of getgid().  Typically, it is the type of group ids in the kernel.
?S:.
?C:Gid_t (GIDTYPE):
?C: This symbol holds the return type of getgid() and the type of
?C: argument to setrgid() and related functions.  Typically,
?C: it is the type of group ids in the kernel. It can be int, ushort,
?C: uid_t, etc... It may be necessary to include <sys/types.h> to get
?C: any typedef'ed information.
?C:.
?H:#define Gid_t $gidtype  /* Type for getgid(), etc... */
?H:.
?T:xxx
: see what type gids are declared as in the kernel
set gid_t gidtype xxx stdio.h sys/types.h
eval $typedef
case "$gidtype" in
xxx)
 xxx=`./findhdr sys/user.h`
 set `grep 'groups\[NGROUPS\];' "$xxx" 2>/dev/null` unsigned short
 case $1 in
 unsigned) dflt="$1 $2" ;;
 *) dflt="$1"
 ;;
 esac
 ;;
*) dflt="$gidtype";;
esac
echo " "
rp="What is the type for group ids returned by getgid()?"
. ./myread
gidtype="$ans"
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/gidtype.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vaproto.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Orginal Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: vaproto.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:17:16  ram
?RCS: patch16: definition of _V now appears only when needed
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:59  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:vaproto: prototype i_stdarg Setvar
?MAKE: -pick add $@ %<
?S:vaproto:
?S: This variable conditionally defines CAN_VAPROTO on systems supporting
?S: prototype
 declaration of functions with a variable number of
?S: arguments. See also prototype.
?S:.
?C:CAN_VAPROTO ~ %<:
?C: This variable is defined on systems supporting prototype declaration
?C: of functions with a variable number of arguments.
?C:.
?C:_V:
?C: This macro is used to declare function parameters in prototypes for
?C: functions with a variable number of parameters. Use double parentheses.
?C: For example:
?C:
?C:  int printf _V((char *fmt, ...));
?C:
?C: Remember to use the plain simple _() macro when declaring a function
?C: with no variable number of arguments, since it might be possible to
?C: have a non-effect _V() macro and still get prototypes via _().
?C:.
?H:?%<:#$vaproto CAN_VAPROTO /**/
?H:?_V:#ifdef CAN_VAPROTO
?H:?_V:#define _V(args) args
?H:?_V:#else
```

```
?H:?_V:#define _V(args) ()
?H:?_V:#endif
?H:.
?W:%<:_V
?LINT:set vaproto
: see if prototypes support variable argument declarations
echo " "
case "$prototype$i_stdarg" in
$define$define)
 echo "It appears we'll
 be able to prototype varargs functions." >&4
 val="$define"
 ;;
*)
 echo "Too bad... We won't be using prototyped varargs functions..." >&4
 val="$undef"
 ;;
esac
set vaproto
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/vaproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_longdbl.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_longdbl.U,v $
?RCS:
?MAKE:d_longdbl longdblsize d_ldexpl longdblkind \
 d_long_double_style_ieee d_long_double_style_ieee_doubledouble \
 d_long_double_style_ieee_extended d_long_double_style_ieee_std \
 d_long_double_style_vax: Compile Setvar Myread \
 Inlibc run echo cat rm_try test doublesize i_stdlib
?MAKE: -pick add $@ %<
?S:d_longdbl:
?S: This variable conditionally defines HAS_LONG_DOUBLE if
?S: the long double type is supported.
?S:.
?S:d_ldexpl:
?S: This variable conditionally defines the HAS_LDEXPL symbol, which
?S: indicates to the C program that the ldexpl() routine is available.
```

```
?S:.
?S:longdblsize:
?S: This variable contains the value of the LONG_DOUBLESIZE symbol,
 which
?S: indicates to the C program how many bytes there are in a long double,
?S: if this system supports long doubles.  Note that this is
?S: sizeof(long double), which may include unused bytes.
?S:.
?S:longdblkind:
?S: This variable, if defined, encodes the type of a long double:
?S:  0 = double,
?S:  1 = IEEE 754 128-bit little endian,
?S:  2 = IEEE 754 128-bit big endian,
?S:  3 = x86 80-bit little endian,
?S:  4 = x86 80-bit big endian,
?S:  5 = double-double 128-bit little endian,
?S:  6 = double-double 128-bit big endian,
?S:  7 = 128-bit mixed-endian double-double (64-bit LEs in BE),
?S:  8 = 128-bit mixed-endian double-double (64-bit BEs in LE),
?S:  9 = 128-bit PDP-style mixed-endian long doubles,
?S: -1 = unknown format.
?S:.
?S:d_long_double_style_ieee:
?S: This variable conditionally defines LONG_DOUBLE_STYLE_IEEE
?S: if the long double is any of the IEEE 754 style long doubles:
?S: LONG_DOUBLE_STYLE_IEEE_STD, LONG_DOUBLE_STYLE_IEEE_EXTENDED,
?S: LONG_DOUBLE_STYLE_IEEE_DOUBLEDOUBLE.
?S:.
?S:d_long_double_style_ieee_doubledouble:
?S: This
 variable conditionally defines LONG_DOUBLE_STYLE_IEEE_DOUBLEDOUBLE
?S: if the long double is the 128-bit IEEE 754 double-double.
?S:.
?S:d_long_double_style_ieee_extended:
?S: This variable conditionally defines LONG_DOUBLE_STYLE_IEEE_EXTENDED
?S: if the long double is the 80-bit IEEE 754 extended precision.
?S: Note that despite the 'extended' this is less than the 'std',
?S: since this is an extension of the double precision.
?S:.
?S:d_long_double_style_ieee_std:
?S: This variable conditionally defines LONG_DOUBLE_STYLE_IEEE_STD
?S: if the long double is the 128-bit IEEE 754.
?S:.
?S:d_long_double_style_vax:
?S: This variable conditionally defines LONG_DOUBLE_STYLE_VAX
?S: if the long double is the 128-bit VAX format H.
?S:.
?C:HAS_LONG_DOUBLE:
```

```
?C: This symbol will be defined if the C compiler supports long
?C: doubles.
?C:.
?C:LONG_DOUBLESIZE:
?C: This symbol contains the size of a long double, so that the
?C: C
 preprocessor can make decisions based on it.  It is only
?C: defined if the system supports long doubles.  Note that this
?C: is sizeof(long double), which may include unused bytes.
?C:.
?C:HAS_LDEXPL:
?C: This symbol, if defined, indicates that the ldexpl routine is
?C: available to shift a long double floating-point number
?C: by an integral power of 2.
?C:.
?C:LONG_DOUBLEKIND:
?C: LONG_DOUBLEKIND will be one of
?C: LONG_DOUBLE_IS_DOUBLE
?C: LONG_DOUBLE_IS_IEEE_754_128_BIT_LITTLE_ENDIAN
?C: LONG_DOUBLE_IS_IEEE_754_128_BIT_BIG_ENDIAN
?C: LONG_DOUBLE_IS_X86_80_BIT_LITTLE_ENDIAN
?C: LONG_DOUBLE_IS_X86_80_BIT_BIG_ENDIAN
?C: LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_LE
?C: LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_BE
?C: LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_BE
?C: LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_LE
?C: LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LITTLE_ENDIAN
?C: LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BIG_ENDIAN
?C: LONG_DOUBLE_IS_VAX_H_FLOAT
?C: LONG_DOUBLE_IS_UNKNOWN_FORMAT
?C: It is only defined
 if the system supports long doubles.
?C:.
?C:LONG_DOUBLE_STYLE_IEEE:
?C: This symbol, if defined, indicates that the long double
?C: is any of the IEEE 754 style long doubles:
?C: LONG_DOUBLE_STYLE_IEEE_STD, LONG_DOUBLE_STYLE_IEEE_EXTENDED,
?C: LONG_DOUBLE_STYLE_IEEE_DOUBLEDOUBLE.
?C:.
?C:LONG_DOUBLE_STYLE_IEEE_DOUBLEDOUBLE:
?C: This symbol, if defined, indicates that the long double is
?C: the 128-bit double-double.
?C:.
?C:LONG_DOUBLE_STYLE_IEEE_EXTENDED:
?C: This symbol, if defined, indicates that the long double is
?C: the 80-bit IEEE 754. Note that despite the 'extended' this
?C: is less than the 'std', since this is an extension of
?C: the double precision.
```

```
?C:.
?C:LONG_DOUBLE_STYLE_IEEE_STD:
?C: This symbol, if defined, indicates that the long double is
?C: the 128-bit IEEE 754.
?C:.
?C:LONG_DOUBLE_STYLE_VAX:
?C: This symbol, if defined, indicates that the long double is
?C: the 128-bit VAX format H.
?C:.
?H:#$d_ldexpl  HAS_LDEXPL  /**/
?H:#$d_longdbl HAS_LONG_DOUBLE  /**/
?H:?LONG_DOUBLESIZE:#ifdef
 HAS_LONG_DOUBLE
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLESIZE $longdblsize  /**/
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLEKIND $longdblkind  /**/
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLE    0
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_IEEE_754_128_BIT_LITTLE_ENDIAN 1
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_IEEE_754_128_BIT_BIG_ENDIAN 2
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_X86_80_BIT_LITTLE_ENDIAN  3
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_X86_80_BIT_BIG_ENDIAN  4
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_LE 5
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_BE 6
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_BE 7
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_LE 8
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_VAX_H_FLOAT   9
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_UNKNOWN_FORMAT   -1
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LITTLE_ENDIAN
LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_LE
 /* back-compat */
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BIG_ENDIAN
LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_BE /* back-compat */
?H:?LONG_DOUBLESIZE:#$d_long_double_style_ieee LONG_DOUBLE_STYLE_IEEE
?H:?LONG_DOUBLESIZE:#$d_long_double_style_ieee_doubledouble
LONG_DOUBLE_STYLE_IEEE_DOUBLEDOUBLE
?H:?LONG_DOUBLESIZE:#$d_long_double_style_ieee_extended
LONG_DOUBLE_STYLE_IEEE_EXTENDED
?H:?LONG_DOUBLESIZE:#$d_long_double_style_ieee_std LONG_DOUBLE_STYLE_IEEE_STD
?H:?LONG_DOUBLESIZE:#$d_long_double_style_vax LONG_DOUBLE_STYLE_VAX
?H:?LONG_DOUBLESIZE:#endif
?H:.
?F:!try
?LINT:known LONG_DOUBLE_IS_DOUBLE LONG_DOUBLE_IS_IEEE_754_128_BIT_LITTLE_ENDIAN
?LINT:known LONG_DOUBLE_IS_IEEE_754_128_BIT_BIG_ENDIAN
LONG_DOUBLE_IS_X86_80_BIT_LITTLE_ENDIAN
?LINT:known LONG_DOUBLE_IS_X86_80_BIT_BIG_ENDIAN
LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LITTLE_ENDIAN
?LINT:known LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BIG_ENDIAN
LONG_DOUBLE_IS_UNKNOWN_FORMAT
```

```
?LINT:known
 LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_LE
?LINT:known LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_BE
?LINT:known LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_BE
?LINT:known LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_LE
?LINT:known LONG_DOUBLE_IS_VAX_H_FLOAT
?LINT:set d_longdbl
?LINT:set d_ldexpl
: check for long doubles
echo " " >&4
echo "Checking to see if you have long double..." >&4
echo 'int main() { long double x = 7.0; }' > try.c
set try
if eval $compile; then
 val="$define"
 echo "You have long double." >&4
else
 val="$undef"
 echo "You do not have long double." >&4
fi
$rm_try
set d_longdbl
eval $setvar

: see if ldexpl exists
set ldexpl d_ldexpl
eval $inlibc

@if LONG_DOUBLESIZE || longdblsize
: check for length of long double
?X:  Check only if d_longdbl and if longdblsize is not already set.
case "${d_longdbl}${longdblsize}" in
$define)
 echo " " >&4
 echo "Checking to see how big your long doubles are..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
 printf("%d\n", sizeof(long
 double));
}
EOCP
 set try
?X: Don't use compile_ok because some compilers warn you that they have
?X: 'long double' as just 'double'.
 set try
 if eval $compile; then
```

```
  longdblsize=`$run ./try`
  echo "Your long doubles are $longdblsize bytes long." >&4
 else
  dflt='8'
  echo " " >&4
  echo "(I can't seem to compile the test program.  Guessing...)" >&4
  rp="What is the size of a long double (in bytes)?"
  . ./myread
  longdblsize="$ans"
 fi
 if $test "X$doublesize" = "X$longdblsize"; then
  echo "That isn't any different from an ordinary double." >&4
  echo "I'll keep your setting anyway, but you may see some" >&4
  echo "harmless compilation warnings." >&4
 fi
 ;;
esac
$rm_try
@end

$echo "Checking the kind of long doubles you have..." >&4
case "$d_longdbl" in
define)
$cat <<EOP >try.c
#$i_stdlib I_STDLIB
#define LONGDBLSIZE $longdblsize
#define DOUBLESIZE $doublesize
#include <float.h>
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <stdio.h>
static const long double
 d = -0.1L;
int main() {
 unsigned const char* b = (unsigned const char*)(&d);
#if DOUBLESIZE == LONGDBLSIZE
 printf("0\n"); /* if it floats like double */
 exit(0);
#endif
#if (LDBL_MANT_DIG == 113 || FLT128_MANT_DIG == 113) && LONGDBLSIZE == 16
 if (b[0] == 0x9A && b[1] == 0x99 && b[15] == 0xBF) {
   /* IEEE 754 128-bit little-endian */
   printf("1\n");
   exit(0);
 }
 if (b[0] == 0xBF && b[14] == 0x99 && b[15] == 0x9A) {
   /* IEEE 128-bit big-endian, e.g. solaris sparc */
```

```
  printf("2\n");
  exit(0);
 }
#endif
/* For alignment 32-bit platforms have the 80 bits in 12 bytes,
* while 64-bits platforms have it in 16 bytes.  The trailing bytes
* cannot be trusted. */
#if LDBL_MANT_DIG == 64 && (LONGDBLSIZE == 16 || LONGDBLSIZE == 12)
 if (b[0] == 0xCD && b[9] == 0xBF) {
  /* x86 80-bit little-endian, sizeof 12 (ILP32, Solaris x86)
   * or 16 (LP64, Linux and OS X), 4 or 6 bytes of padding.
   * Also known as "extended precision". */
  printf("3\n");
  exit(0);
 }
 if (b[0] == 0xBF && b[9] == 0xCD) {
  /* Is there ever big-endian 80-bit, really?
   *
   * The Motorola 68881 had another "extended precision" format:
   * sign:1 exp:15 zero:16 integer:1 mantissa:63
   * for total of 96 bits of bytes.  The zero bits were unused.
   * See "M68000 FAMILY PROGRAMMER'S REFERENCE MANUAL" for more details.
   * If it ever becomes relevant, this format should be allocated a
   * new doublekind code since it is quite different from the Intel x87.
   */
  printf("4\n");
  exit(0);
 }
#endif
#if (LDBL_MANT_DIG == 106 || LDBL_MANT_DIG == 107) && LONGDBLSIZE == 16
 /* software "double double", the 106 is 53+53.
  * but irix thinks it is 107. */
 if (b[0] == 0x9A && b[7] == 0x3C && b[8] == 0x9A && b[15] == 0xBF) {
  /* double double 128-bit fully little-endian,
   * little-endian doubles in little-endian order,
   * 9a 99 99 99 99 99 59 3c 9a 99 99 99 99 99 b9 bf */
  printf("5\n");
  exit(0);
 }
 if (b[0] == 0xBF && b[7]
 == 0x9A && b[8] == 0x3C && b[15] == 0x9A) {
  /* double double 128-bit fully big-endian,
   * big-endian doubles in big-endian order,
   * e.g. PPC/Power and MIPS:
   * bf b9 99 99 99 99 99 9a 3c 59 99 99 99 99 99 9a */
  printf("6\n");
  exit(0);
 }
```

```
 if (b[0] == 0x9A && b[7] == 0xBF && b[8] == 0x9A && b[15] == 0x3C) {
   /* double double 128-bit mixed endian.
    * little-endian doubles in big-endian order,
    * e.g. ppc64el,
    * 9a 99 99 99 99 99 b9 bf 9a 99 99 99 99 99 59 3c */
   printf("7\n");
   exit(0);
 }
 if (b[0] == 0x3C && b[7] == 0x9A && b[8] == 0xBF && b[15] == 0x9A) {
   /* double double 128-bit mixed endian,
    * big-endian doubles in little-endian order,
    * 3c 59 99 99 99 99 99 9a bf b9 99 99 99 99 99 9a */
   printf("8\n");
   exit(0);
 }
#endif
/* We are largely making this up because it may well be
* that the VAX format H was never made available to C,
* only to Fortran. */
#if LONGDBLSIZE == 16 && defined(__vax__)
 if (b[0]
 == 0xFD && b[15] == 0x99) {
   /* VAX format H, PDP-11 mixed endian. */
   printf("9\n");
   exit(0);
 }
#endif
 printf("-1\n"); /* unknown */
 exit(0);
}
EOP
set try
if eval $compile; then
   longdblkind=`$run ./try`
else
   longdblkind=-1
fi
;;
*) longdblkind=0 ;;
esac
case "$longdblkind" in
0) echo "Your long doubles are doubles." >&4 ;;
1) echo "You have IEEE 754 128-bit little endian long doubles." >&4 ;;
2) echo "You have IEEE 754 128-bit big endian long doubles." >&4 ;;
3) echo "You have x86 80-bit little endian long doubles." >&4 ;;
4) echo "You have x86 80-bit big endian long doubles." >&4 ;;
5) echo "You have 128-bit fully little-endian double-double long doubles (64-bit LEs in LE)." >&4 ;;
6) echo "You have 128-bit fully big-endian double-double long doubles (64-bit BEs in BE)." >&4 ;;
```

```
7) echo "You have 128-bit mixed-endian double-double long doubles (64-bit LEs in BE)." >&4 ;;
8) echo "You have 128-bit mixed-endian double-double long doubles (64-bit BEs in LE)." >&4
 ;;
9) echo "You have 128-bit PDP-style mixed-endian long doubles (VAX format H)." >&4 ;;
*) echo "Cannot figure out your long double." >&4 ;;
esac
d_long_double_style_ieee=$undef
d_long_double_style_ieee_std=$undef
d_long_double_style_ieee_extended=$undef
d_long_double_style_ieee_doubledouble=$undef
d_long_double_style_vax=$undef
case "$longdblkind" in
1|2|3|4|5|6|7|8) d_long_double_style_ieee=$define ;;
esac
case "$longdblkind" in
1|2) d_long_double_style_ieee_std=$define ;;
esac
case "$longdblkind" in
3|4) d_long_double_style_ieee_extended=$define ;;
esac
case "$longdblkind" in
5|6|7|8) d_long_double_style_ieee_doubledouble=$define ;;
esac
case "$longdblkind" in
9) d_long_double_style_vax=$define ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_longdbl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2016 Tony Cook
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:dtraceobject dtracexnolibs: usedtrace dtrace cc ccflags optimize \
  Compile cat rm_try
?MAKE: -pick add $@ %<
?S:dtraceobject:
?S: Whether we need to build an object file with the dtrace tool.
?S:.
?S:dtracexnolibs:
?S: Whether dtrace accepts -xnolibs.  If available we call dtrace -h
?S: and dtrace -G with -xnolibs to allow dtrace to run in a jail on
?S: FreeBSD.
```

```
?S:.
?F: !perldtrace.h
?T:xnolibs
: Probe whether dtrace builds an object, as newer Illumos requires an input
: object file that uses at least one of the probes defined in the .d file
case "$usedtrace" in
$define)
  case "$dtracexnolibs" in
  $define|true|[yY]*)
      dtracexnolibs=$define
 $dtrace -h -xnolibs -s ../perldtrace.d -o perldtrace.h
 ;;
  ' '|'')
       if $dtrace -h -xnolibs -s ../perldtrace.d -o perldtrace.h 2>&1 ; then
     dtracexnolibs=$define
     echo "Your dtrace accepts -xnolibs"
 elif $dtrace -h -s ../perldtrace.d -o perldtrace.h 2>&1 ; then
     dtracexnolibs=$undef
     echo "Your dtrace doesn't accept -xnolibs"
 else
          echo "Your dtrace doesn't work at all, try building without dtrace support" >&4
     exit 1
 fi
 ;;
  *)
      dtracexnolibs=$undef
 $dtrace -h -s ../perldtrace.d -o perldtrace.h
 ;;
  esac
  case $dtracexnolibs in
  $define) xnolibs=-xnolibs ;;
  *) xnolibs= ;;
  esac

  case "$dtraceobject" in
  $define|true|[yY]*)
      dtraceobject=$define
      ;;
  ' '|'')
      $cat >try.c <<EOM
#include "perldtrace.h"
int main(void) {
  PERL_LOADED_FILE("dummy");
  return 0;
}
EOM
      dtraceobject=$undef
      if $cc -c -o try.o $optimize $ccflags try.c \
```

```
                && $dtrace -G $xnolibs -s ../perldtrace.d try.o >/dev/null 2>&1; then

        dtraceobject=$define
          echo "Your dtrace builds an object file"
      fi
      ;;
  *) dtraceobject=$undef ;;
  esac
  $rm_try perldtrace.o perldtrace.h
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/dtraceobject.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_msgctl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msgctl.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:38  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_msgctl: Inlibc
?MAKE: -pick add $@ %<
?S:d_msgctl:
?S: This variable conditionally defines the HAS_MSGCTL symbol, which
?S: indicates to the C program that the msgctl() routine is available.
?S:.
?C:HAS_MSGCTL:
?C: This symbol, if defined, indicates that the msgctl() routine is
?C: available to perform message control operations.
?C:.
?H:#$d_msgctl
 HAS_MSGCTL  /**/
?H:.
?LINT:set d_msgctl
: see if msgctl exists
set msgctl d_msgctl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_msgctl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_time.U,v 3.0 1993/08/18 12:08:45 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: i_time.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit finds which "time" include to use. If 'timezone' is used by the
?X: program, we also try to find which header should be included. Eventually,
?X: we look for <sys/select.h> if I_SYSSELECT is used, to get struct timeval.
?X:
?MAKE:i_time i_systime i_systimek timeincl d_tm_tm_zone d_tm_tm_gmtoff: \
 Compile cat \
 contains rm_try echo n
 c +i_sysselct Findhdr Hasfield i_stdlib
?MAKE: -pick add $@ %<
?S:i_time:
?S: This variable unconditionally defines I_TIME, which indicates
?S: to the C program that it should include <time.h>.
?S:.
?S:i_systime:
?S: This variable conditionally defines I_SYS_TIME, which indicates
?S: to the C program that it should include <sys/time.h>.
?S:.
?S:i_systimek:
?S: This variable conditionally defines I_SYS_TIME_KERNEL, which
?S: indicates to the C program that it should include <sys/time.h>
?S: with KERNEL defined.
?S:.
?S:timeincl:
?S: This variable holds the full path of the included time header(s).
?S:.
?S:d_tm_tm_zone:
?S: This variable conditionally defines HAS_TM_TM_ZONE, which indicates
?S: to the C program that the struct tm has the tm_zone field.
```

```
?S:.
?S:d_tm_tm_gmtoff:
?S: This variable conditionally defines HAS_TM_TM_GMTOFF, which indicates
?S: to the C program that the struct tm has the tm_gmtoff field.
?S:.
?C:I_TIME (USE_TIME_H):
?C: This symbol is always defined, and indicates
 to the C program that
?C: it should include <time.h>.
?C:.
?C:I_SYS_TIME (I_SYSTIME USE_SYS_TIME_H NO_TIME_WITH_SYS_TIME):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/time.h>.
?C:.
?C:I_SYS_TIME_KERNEL (I_SYSTIMEKERNEL):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/time.h> with KERNEL defined.
?C:.
?C:HAS_TM_TM_ZONE:
?C: This symbol, if defined, indicates to the C program that
?C: the struct tm has a tm_zone field.
?C:.
?C:HAS_TM_TM_GMTOFF:
?C: This symbol, if defined, indicates to the C program that
?C: the struct tm has a tm_gmtoff field.
?C:.
?H:#$i_time I_TIME  /**/
?H:#$i_systime I_SYS_TIME  /**/
?H:#$i_systimek I_SYS_TIME_KERNEL  /**/
?H:#$d_tm_tm_zone HAS_TM_TM_ZONE  /**/
?H:#$d_tm_tm_gmtoff HAS_TM_TM_GMTOFF  /**/
?H:.
?W::timezone
?T:xselect flags sysselect s_timeval s_timezone
?LINT:change i_sysselct
?LINT:set d_tm_tm_zone
?LINT:set d_tm_tm_gmtoff
: see if we should include sys/time.h
echo
 " "
i_time='define'
if test "X$timeincl" = X; then
 echo "Testing to see if we should include <sys/time.h>." >&4
 $echo $n "I'm now running the test program...$c"
 $cat >try.c <<EOCP
#include <sys/types.h>
#include <time.h>
#ifdef I_SYSTIME
```

```
#ifdef SYSTIMEKERNEL
#define KERNEL
#endif
#include <sys/time.h>
#endif
#ifdef I_SYSSELECT
#include <sys/select.h>
#endif
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
{
 struct tm foo;
#ifdef S_TIMEVAL
 struct timeval bar;
#endif
#ifdef S_TIMEZONE
 struct timezone tzp;
#endif
 if (foo.tm_sec == foo.tm_sec)
  exit(0);
#ifdef S_TIMEVAL
 if (bar.tv_sec == bar.tv_sec)
  exit(0);
#endif
 exit(1);
}
EOCP
 flags=''
@if I_SYSSELECT
 if $contains 'timeval.*{' `./findhdr sys/select.h` >/dev/null 2>&1; then
  xselect='-DI_SYSSELECT'
 else
  xselect=''
 fi
@end
@if timezone
 for s_timezone in '-DS_TIMEZONE' ''; do
@else
 s_timezone=''
@end
?X: Every package is given a try with 'struct timeval'
@if I_SYSSELECT
 for sysselect in $xselect
 ''; do
@else
```

```
 sysselect="
@end
 for s_timeval in '-DS_TIMEVAL' ''; do
 for i_systimek in '' '-DSYSTIMEKERNEL'; do
 for i_systime in '-DI_SYSTIME' ''; do
  case "$flags" in
  '') $echo $n ".$c"
   set try $i_systime $i_systimek $sysselect $s_timeval $s_timezone
   if eval $compile; then
    set X $i_systime $i_systimek $sysselect $s_timeval
    shift
    flags="$*"
    echo " "
    $echo $n "Succeeded with $flags$c"
   fi
   ;;
  esac
 done
 done
 done
@if I_SYSSELECT
 done
@end
@if timezone
 done
@end
 timeincl=''
 echo " "
 case "$flags" in
 *SYSTIMEKERNEL*) i_systimek="$define"
  timeincl=`./findhdr sys/time.h`
  echo "We'll include <sys/time.h> with KERNEL defined." >&4;;
 *) i_systimek="$undef";;
 esac
 case "$flags" in
 *I_SYSTIME*) i_systime="$define"
  timeincl=`./findhdr sys/time.h`" $timeincl"
  echo "We'll include <sys/time.h>." >&4;;
 *) i_systime="$undef";;
 esac
@if I_SYSSELECT
 case "$flags" in
 *I_SYSSELECT*) i_sysselct="$define"
  timeincl=`./findhdr sys/select.h`"
 $timeincl"
  echo "We'll also include <sys/select.h> to get struct timeval." >&4;;
 *) case "$i_sysselct" in
  '') i_sysselct="$undef";;
```

```
  esac
 esac
@end
 $rm_try
fi
: see if struct tm knows about tm_zone
case "$i_systime$i_time" in
*$define*)
	echo " "
	echo "Checking to see if your struct tm has tm_zone field..." >&4
	set d_tm_tm_zone tm tm_zone $i_systime sys/time.h $i_time time.h
	eval $hasfield
	;;
*)	val="$undef"
	set d_tm_tm_zone
	eval $setvar
	;;
esac
case "$d_tm_tm_zone" in
"$define")	echo "Yes, it does."	;;
*)		echo "No, it doesn't." ;;
esac
: see if struct tm knows about tm_gmtoff
case "$i_systime$i_time" in
*$define*)
	echo " "
	echo "Checking to see if your struct tm has tm_gmtoff field..." >&4
	set d_tm_tm_gmtoff tm tm_gmtoff $i_systime sys/time.h $i_time time.h
	eval $hasfield
	;;
*)	val="$undef"
	set d_tm_tm_gmtoff
	eval $setvar

   ;;
esac
case "$d_tm_tm_gmtoff" in
"$define")	echo "Yes, it does."	;;
*)		echo "No, it doesn't." ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/i_time.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_pwrite.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_pwrite.U,v $
?RCS:
?MAKE:d_pwrite: Inlibc
?MAKE: -pick add $@ %<
?S:d_pwrite:
?S: This variable conditionally defines the HAS_PWRITE symbol, which
?S: indicates to the C program that the pwrite() routine is available.
?S:.
?C:HAS_PWRITE :
?C: This symbol, if defined, indicates that the pwrite routine is
?C: available to perform writes on a file descriptor at a given offset.
?C:.
?H:#$d_pwrite HAS_PWRITE  /**/
?H:.
?LINT:set d_pwrite
: see if pwrite
 exists
set pwrite d_pwrite
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_pwrite.U
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```
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?RCS:
?MAKE:d_fseeko: Inlibc longsize
?MAKE: -pick add $@ %<
?S:d_fseeko:
?S: This variable conditionally defines the HAS_FSEEKO symbol, which
?S: indicates to the C program that the fseeko() routine is available.
?S:.
?C:HAS_FSEEKO:
?C: This symbol, if defined, indicates that the fseeko routine is
```

```
?C: available to fseek beyond 32 bits (useful for ILP32 hosts).
?C:.
?H:#$d_fseeko HAS_FSEEKO  /**/
?H:.
?LINT:set d_fseeko
: see if fseeko exists
set fseeko d_fseeko
eval $inlibc
case "$longsize" in
8) echo "(Your long is 64 bits, so you could use fseek.)" ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fseeko.U
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```
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?RCS:
?MAKE:d_statfs_s: \
 Hasstruct i_sysparam i_sysmount i_systypes \
 i_sysvfs i_sysstatfs Setvar
?MAKE: -pick add $@ %<
?S:d_statfs_s:
?S: This variable conditionally defines the HAS_STRUCT_STATFS symbol,
?S: which indicates that the struct statfs is supported.
?S:.
?C:HAS_STRUCT_STATFS:
?C: This symbol, if defined, indicates that the struct statfs
?C: to do statfs() is supported.
?C:.
?H:#$d_statfs_s HAS_STRUCT_STATFS /**/
?H:.
?LINT:set d_statfs_s
: Check for statfs_s
echo " "
echo "Checking to see if your system supports struct statfs..." >&4
set d_statfs_s statfs $i_systypes sys/types.h $i_sysparam sys/param.h $i_sysmount sys/mount.h $i_sysvfs sys/vfs.h
$i_sysstatfs sys/statfs.h
eval $hasstruct
case "$d_statfs_s"
 in
"$define")      echo "Yes, it does."   ;;
```

```
*)          echo "No, it doesn't." ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_statfs_s.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_stdbool.U,v $
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_stdbool: cat Compile rm_try Setvar
?MAKE: -pick add $@ %<
?S:i_stdbool:
?S: This variable conditionally defines the I_STDBOOL symbol, which
?S: indicates to the C program that <stdbool.h> exists and should
?S: be included.
?S:.
?C:I_STDBOOL:
?C: This symbol, if defined, indicates that <stdbool.h> exists and
?C: can be included.
?C:.
?H:#$i_stdbool I_STDBOOL  /**/
?H:.
?LINT:set i_stdbool
: see if stdbool is available
: we want a real compile instead of Inhdr because some Solaris systems
: have stdbool.h, but it can only be used if the compiler indicates it
: is sufficiently c99-compliant.
echo " "
$cat >try.c <<EOCP
#include <stdio.h>
#include <stdbool.h>
int func(bool x)
{
  return
 x ? 1 : 0;
}
int main(int argc, char **argv)
{
  return func(0);
}
EOCP
set try
```

```
if eval $compile; then
 echo "<stdbool.h> found." >&4
 val="$define"
else
 echo "<stdbool.h> NOT found." >&4
 val="$undef"
fi
$rm_try
set i_stdbool
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_stdbool.U
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```
?RCS: $Id: cf_name.U 1 2006-08-24 12:32:52Z rmanfredi $
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: cf_name.U,v $
?RCS: Revision 3.0.1.2  1994/05/06  14:29:36  ram
?RCS: patch23: fixed user name computation from /etc/passwd in bsd systems
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:05:11  ram
?RCS: patch16: created
?RCS:
?RCS:
?MAKE:+cf_name: cf_by passcat Filexp nametype cat test
?MAKE: -pick add $@ %<
?S:cf_name:
?S: Full name of the person who ran the Configure script and
 answered the
?S: questions. This can be used by units that require the user's full name.
?S: This variable is for internal use only.
?S:.
?T:xxx fn NAME
: figure out their full name
case "$NAME" in
") case "$nametype" in
```

```
 other)
  fn=`./filexp ~/.fullname`
  xxx=usg
  $test -f $fn && xxx=other
  ;;
 *)
  xxx="$nametype"
  ;;
 esac

 case "$xxx" in
 bsd)
  cf_name=`$passcat | grep "^$cf_by:" | \
   sed -e 's/^[^:]*:[^:]*:[^:]*:[^:]*:\([^:]*\):.*/\1/' \
   -e 's/,.*//'`
  ;;
   usg)
  cf_name=`$passcat | grep "^$cf_by:" | \
   sed -e 's/^[^:]*:[^:]*:[^:]*:[^:]*:\([^:]*\):.*/\1/' \
   -e 's/[^-]*-\(.*\)(.*)/\1/'`
  ;;
 *)
  cf_name=`$cat $fn`
  ;;
 esac
 ;;
*)
 cf_name="$NAME"
 ;;
esac
?X:
?X: In the original unit, Graham asked for the user name, in case the above
?X: code was unable to figure it out correctly. Since now cf_name has been
?X: made an internal variable only (i.e. it is not saved in config.sh), letting
?X: the user override the computed default each time would be a pain.
?X:
 Therefore, I have decided to trust the above code to get it right, and for
?X: those rare cases where it will fail, too bad :-) --RAM.
?X:
echo " "
echo "Pleased to meet you, $cf_name."
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/cf_name.U
No license file was found, but licenses were detected in source scan.

?RCS: Id

```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fsync: Inlibc
?MAKE: -pick add $@ %<
?S:d_fsync:
?S: This variable conditionally defines the HAS_FSYNC symbol, which
?S: indicates to the C program that the fsync() routine is available.
?S:.
?C:HAS_FSYNC:
?C: This symbol, if defined, indicates that the fsync routine is
?C: available to write a file's modified data and attributes to
?C: permanent storage.
?C:.
?H:#$d_fsync HAS_FSYNC  /**/
?H:.
?LINT:set d_fsync
: see if fsync exists
set fsync d_fsync
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fsync.U
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:gidsize: Myread Typedef gidtype Compile run i_stdlib
?MAKE: -pick add $@ %<
?S:gidsize:
?S: This variable contains the size of a gidtype in bytes.
?S:.
?C:Gid_t_size:
?C: This symbol holds the size of a Gid_t in bytes.
?C:.
?H:#define Gid_t_size $gidsize  /* GID size */
?H:.
```

```
?T:yyy zzz
?F:!try
: Check the size of GID
echo " "
case "$gidtype" in
*_t) zzz="$gidtype" ;;
*)   zzz="gid"  ;;
esac
echo "Checking the size of $zzz..." >&4
cat > try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include
 <stdlib.h>
#endif
int main() {
   printf("%d\n", (int)sizeof($gidtype));
   exit(0);
}
EOCP
set try
if eval $compile_ok; then
 yyy=`$run ./try`
 case "$yyy" in
 ") gidsize=4
  echo "(I can't execute the test program--guessing $gidsize.)" >&4
  ;;
 *) gidsize=$yyy
  echo "Your $zzz is $gidsize bytes long."
  ;;
 esac
else
 gidsize=4
 echo "(I can't compile the test program--guessing $gidsize.)" >&4
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/gidsize.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: lseektype.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:30:10  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lseektype: Myread Typedef
?MAKE: -pick add $@ %<
?S:lseektype:
?S: This variable defines lseektype to be something like off_t, long,
?S: or whatever type is used to declare lseek offset's type in the
?S: kernel (which also appears to be lseek's return type).
?S:.
?C:Off_t
 (LSEEKTYPE):
?C: This symbol holds the type used to declare offsets in the kernel.
?C: It can be int, long, off_t, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Off_t $lseektype  /* <offset> type */
?H:.
: see what type lseek is declared as in the kernel
set off_t lseektype long stdio.h sys/types.h
eval $typedef
echo " "
dflt="$lseektype"
rp="What type is lseek's offset on this system declared as?"
. ./myread
lseektype="$ans"
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/lseektype.U
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```
?RCS: $Id: d_cbrt.U 1 2006-08-24 12:32:52Z rmanfredi $
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```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_cbrt.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_cbrt: Inlibc
?MAKE: -pick add $@ %<
?S:d_cbrt:
?S: This variable conditionally defines the HAS_CBRT symbol, which
?S: indicates to the C program that the cbrt() (cube root) function
?S: is available.
?S:.
?C:HAS_CBRT (CBRT):
?C: This symbol, if defined, indicates that the cbrt() (cube root)
?C: function is available.
?C:.
?H:#$d_cbrt HAS_CBRT /**/
?H:.
?LINT:set
 d_cbrt
: see if cbrt exists
set cbrt d_cbrt
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_cbrt.U
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?RCS:
?MAKE:d_strtouq: Inlibc cat Compile run
?MAKE: -pick add $@ %<
?S:d_strtouq:
?S: This variable conditionally defines the HAS_STRTOUQ symbol, which
?S: indicates to the C program that the strtouq() routine is available.
?S:.
?C:HAS_STRTOUQ:
?C: This symbol, if defined, indicates that the strtouq routine is
?C: available to convert strings to unsigned long longs (quads).
?C:.
```

```
?H:#$d_strtouq HAS_STRTOUQ  /**/
?H:.
?F:!try
: see if strtouq exists
set strtouq d_strtouq
eval $inlibc

case "$d_strtouq" in
"$define")
 $cat <<EOM
Checking whether your strtouq() works okay...
EOM
 $cat >try.c <<'EOCP'
#include <stdlib.h>
#include <errno.h>
#include <stdio.h>
static int bad = 0;
void check(const char *s, unsigned
 long long eull, int een) {
 unsigned long long gull;
 errno = 0;
 gull = strtouq(s, 0, 10);
 if (!((gull == eull) && (errno == een)))
  bad++;
}
int main() {
 check(" 1",                                1LL, 0);
 check(" 0",                                0LL, 0);
 check("18446744073709551615",  18446744073709551615ULL, 0);
 check("18446744073709551616",  18446744073709551615ULL, ERANGE);
#if 0 /* strtouq() for /^-/ strings is undefined. */
 check("-1",                  18446744073709551615ULL, 0);
 check("-18446744073709551614",                   2LL, 0);
 check("-18446744073709551615",                   1LL, 0);
 check("-18446744073709551616", 18446744073709551615ULL, ERANGE);
 check("-18446744073709551617", 18446744073709551615ULL, ERANGE);
#endif
 if (!bad)
  printf("ok\n");
 return 0;
}
EOCP
 set try
 if eval $compile; then
  case "`$run ./try`" in
  ok) echo "Your strtouq() seems to be working okay." ;;
  *) cat <<EOM >&4
Your strtouq() doesn't seem to be working
```

```
 okay.
EOM
     d_strtouq="$undef"
     ;;
  esac
 else
  echo "(I can't seem to compile the test program--assuming it doesn't)"
  d_strtouq="$undef"
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strtouq.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_wifstat.U,v 3.0.1.3 1997/02/28 15:47:43 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_wifstat.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:47:43  ram
?RCS: patch61: added a ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  14:09:10  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.1  1995/03/21  08:47:46  ram
?RCS: patch52: created
?RCS:
?MAKE:d_wifstat: Compile d_uwait Oldconfig cat rm
?MAKE: -pick add $@ %<
?S:d_wifstat:
?S: This symbol conditionally defines USE_WIFSTAT
 if the C program can
?S: safely use the WIFxxx macros with the kind of wait() parameter
?S: declared in the program (see UNION_WAIT), or if it can't. Should
?S: only matter on HP-UX, where the macros are incorrectly written and
?S: therefore cause programs using them with an 'union wait' variable
?S: to not compile properly.
?S:.
```

```
?C:USE_WIFSTAT:
?C: This symbol, if defined, indicates to the C program that the argument
?C: for the WIFxxx set of macros such as WIFSIGNALED or WIFEXITED can
?C: be of the same kind as the one used to hold the wait() status. Should
?C: only matter on HP-UX, where the macros are incorrectly written and
?C: therefore cause programs using them with an 'union wait' variable
?C: to not compile properly. See also UNION_WAIT.
?C:.
?H:#$d_wifstat USE_WIFSTAT  /**/
?H:.
?T:type
?F:!foo
: see if we can use WIFxxx macros
echo " "
case "$d_wifstat" in
"$define") echo "As before, you can safely use WIFEXITED and friends!" >&4;;
"$undef") echo "You still can't use WIFEXITED
 and friends!" >&4;;
*)
 echo "Let's see whether you can use the WIFEXITED(status) macro and its"
 case "$d_uwait" in
 "$define") type='union wait';;
 *) type='int';;
 esac
 echo "friends with status declared as '$type status'..."
 $cat >foo.c <<EOCP
#include <sys/types.h>
#include <sys/wait.h>

int main()
{
 $type status;
 int e = 0;

#ifdef WIFEXITED
 if (WIFEXITED(status))
  printf("\n");
 exit(0);
#else
 exit(2);
#endif
}
EOCP
 d_wifstat="$undef"
 set foo
 if eval $compile; then
  if ./foo >/dev/null; then
   echo "Great! Looks like we can use the WIFxxx macros." >&4
```

```
  d_wifstat="$define"
  else
   echo "You don't seem to have WIFxxx macros, but that's ok." >&4
  fi
 else
  echo "Apparently you can't use WIFxxx macros properly." >&4
 fi
 $rm -f foo.* foo core
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_wifstat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: lseektype.U,v 3.0.1.1 1994/08/29 16:30:10 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: lseektype.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:30:10  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lseektype lseeksize: Myread Typedef cat Compile rm_try longsize run
?MAKE: -pick add $@ %<
?S:lseektype:
?S: This variable defines lseektype to be something like off_t, long,
?S: or whatever type is used to declare
 lseek offset's type in the
?S: kernel (which also appears to be lseek's return type).
?S:.
?S:lseeksize:
?S: This variable defines lseektype to be something like off_t, long,
?S: or whatever type is used to declare lseek offset's type in the
?S: kernel (which also appears to be lseek's return type).
?S:.
?C:Off_t (LSEEKTYPE):
?C: This symbol holds the type used to declare offsets in the kernel.
```

```
?C: It can be int, long, off_t, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?C:LSEEKSIZE:
?C: This symbol holds the number of bytes used by the Off_t.
?C:.
?C:Off_t_size:
?C: This symbol holds the number of bytes used by the Off_t.
?C:.
?H:#define Off_t $lseektype  /* <offset> type */
?H:#define LSEEKSIZE $lseeksize  /* <offset> size */
?H:#define Off_t_size $lseeksize /* <offset> size */
?H:.
?F:!try
?LINT:set lseektype
: see what type lseek is declared as in the kernel
rp="What is the type used for lseek's offset on this system?"
set off_t lseektype
 long stdio.h sys/types.h
eval $typedef_ask

echo " "
echo "Checking to see how big your file offsets are..." >&4
$cat >try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
int main()
{
   printf("%d\n", (int)sizeof($lseektype));
   return(0);
}
EOCP
set try
if eval $compile_ok; then
 lseeksize=`$run ./try`
 echo "Your file offsets are $lseeksize bytes long."
else
 dflt=$longsize
 echo " "
 echo "(I can't seem to compile the test program.  Guessing...)"
 rp="What is the size of your file offsets (in bytes)?"
 . ./myread
 lseeksize="$ans"
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/U/typedefs/lseektype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2008 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_ctime64 d_localtime64 d_gmtime64 d_mktime64 d_difftime64 d_asctime64: Inlibc
?MAKE: -pick add $@ %<
?S:d_ctime64:
?S: This variable conditionally defines the HAS_CTIME64 symbol, which
?S: indicates to the C program that the ctime64 () routine is available.
?S:.
?S:d_localtime64:
?S: This variable conditionally defines the HAS_LOCALTIME64 symbol, which
?S: indicates to the C program that the localtime64 () routine is available.
?S:.
?S:d_gmtime64:
?S: This variable conditionally defines the HAS_GMTIME64 symbol, which
?S: indicates to the C program that the gmtime64 () routine is available.
?S:.
?S:d_mktime64:
?S: This variable conditionally defines the HAS_MKTIME64 symbol, which
?S: indicates to the
 C program that the mktime64 () routine is available.
?S:.
?S:d_difftime64:
?S: This variable conditionally defines the HAS_DIFFTIME64 symbol, which
?S: indicates to the C program that the difftime64 () routine is available.
?S:.
?S:d_asctime64:
?S: This variable conditionally defines the HAS_ASCTIME64 symbol, which
?S: indicates to the C program that the asctime64 () routine is available.
?S:.
?C:HAS_CTIME64:
?C: This symbol, if defined, indicates that the ctime64 () routine is
?C: available to do the 64bit variant of ctime ()
?C:.
?C:HAS_LOCALTIME64:
?C: This symbol, if defined, indicates that the localtime64 () routine is
?C: available to do the 64bit variant of localtime ()
?C:.
?C:HAS_GMTIME64:
?C: This symbol, if defined, indicates that the gmtime64 () routine is
?C: available to do the 64bit variant of gmtime ()
```

```
?C:.
?C:HAS_MKTIME64:
?C: This symbol, if defined, indicates that the mktime64 () routine is
?C: available to do the 64bit variant of mktime ()
?C:.
?C:HAS_DIFFTIME64:
?C: This
 symbol, if defined, indicates that the difftime64 () routine is
?C: available to do the 64bit variant of difftime ()
?C:.
?C:HAS_ASCTIME64:
?C: This symbol, if defined, indicates that the asctime64 () routine is
?C: available to do the 64bit variant of asctime ()
?C:.
?H:#$d_ctime64 HAS_CTIME64  /**/
?H:#$d_localtime64 HAS_LOCALTIME64  /**/
?H:#$d_gmtime64 HAS_GMTIME64  /**/
?H:#$d_mktime64 HAS_MKTIME64  /**/
?H:#$d_difftime64 HAS_DIFFTIME64  /**/
?H:#$d_asctime64 HAS_ASCTIME64  /**/
?H:.
?LINT:set d_ctime64 d_localtime64 d_gmtime64 d_mktime64 d_difftime64 d_asctime64
: see if 64bit time functions exists

set ctime64 d_ctime64
eval $inlibc

set localtime64 d_localtime64
eval $inlibc

set gmtime64 d_gmtime64
eval $inlibc

set mktime64 d_mktime64
eval $inlibc

set difftime64 d_difftime64
eval $inlibc

set asctime64 d_asctime64
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_timefuncs64.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Setvar.U 1 2006-08-24 12:32:52Z rmanfredi $

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Setvar.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  15:58:28  ram
?RCS: patch36: call ./whoa explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:16  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a variable that is intended to be eval'ed in
?X: order to define/undefine a symbol. A consistency check is made
?X: regarding any previous value and a warning is issued if there
?X: is any discrepancy.
?X:
?X:
 To use it, say:
?X: val=<value>
?X: set d_variable
?X: eval $setvar
?X:
?MAKE:Setvar: Whoa
?MAKE: -pick add $@ %<
?LINT:define setvar
?S:setvar:
?S: This shell variable is used internally by Configure to set a value
?S: to a given symbol that is defined or not. A typical use is:
?S: val=<value computed>
?S:  set d_variable
?S:  eval $setvar
?S: That will print a message in case the $val value is not the same
?S: as the previous value of $d_variable.
?S:.
?V:setvar:val
?T:var was td tu
: function used to set '$1' to '$val'
setvar='var=$1; eval "was=\$$1"; td=$define; tu=$undef;
case "$val$was" in
$define$undef) . ./whoa; eval "$var=\$td";;
$undef$define) . ./whoa; eval "$var=\$tu";;
*) eval "$var=$val";;
```

```
esac'
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Setvar.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998, Jarkko Hietaniemi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_pthread: Inhdr
?MAKE: -pick add $@ %<
?S:i_pthread:
?S: This variable conditionally defines the I_PTHREAD symbol,
?S: and indicates whether a C program should include <pthread.h>.
?S:.
?C:I_PTHREAD:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <pthread.h>.
?C:.
?H:#$i_pthread   I_PTHREAD /**/
?H:.
?LINT:set i_pthread
: see if POSIX threads are available
set pthread.h i_pthread
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/i_pthread.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fs_data_s: Hasstruct i_sysparam i_sysmount i_systypes Setvar
?MAKE: -pick add $@ %<
```

```
?S:d_fs_data_s:
?S: This variable conditionally defines the HAS_STRUCT_FS_DATA symbol,
?S: which indicates that the struct fs_data is supported.
?S:.
?C:HAS_STRUCT_FS_DATA:
?C: This symbol, if defined, indicates that the struct fs_data
?C: to do statfs() is supported.
?C:.
?H:#$d_fs_data_s HAS_STRUCT_FS_DATA /**/
?H:.
?LINT:set d_fs_data_s
: Check for fs_data_s
echo " "
echo "Checking to see if your system supports struct fs_data..." >&4
set d_fs_data_s fs_data $i_systypes sys/types.h $i_sysparam sys/param.h $i_sysmount sys/mount.h
eval $hasstruct
case "$d_fs_data_s" in
"$define")      echo "Yes, it does."   ;;
*)
            echo "No, it doesn't." ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fs_data_s.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2017, 2019, Karl Williamson
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_wctype: Inhdr
?MAKE: -pick add $@ %<
?S:i_wctype:
?S: This variable conditionally defines the I_WCTYPE symbol,
?S: that indicates whether a C program may include <wctype.h>.
?S:.
?C:I_WCTYPE:
?C: This symbol, if defined, indicates that <wctype.h> exists.
?C:.
?H:#$i_wctype I_WCTYPE  /**/
?H:.
```

```
?LINT:set i_wctype
: see if this system has wctype.h
set wctype.h i_wctype
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_wctype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Obsol_h.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Obsol_h.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:11  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file is prepended to .MT/Obsol_h if that file is not empty. That file
?X: contains the necessary mappings of new symbols to obsolete ones.
?X:
?MAKE:Obsol_h:
?MAKE: -pick prepend $@ ./Obsol_h
?LINT:nocomment
/*
* The following symbols are obsolete. They are mapped to the new
* symbols only to ease the transition process. The sources
 should be
* updated so as to use the new symbols only, as the support for these
* obsolete symbols may end without notice.
*/
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Obsol_h.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libyacc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libyacc.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  16:09:19  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.3  1994/05/13  15:27:12  ram
?RCS: patch27: added byacc case (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:09:01  ram
?RCS: patch23: now uses full library path instead of -l notation
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:13:49  ram
?RCS: patch16: un-obsoleted this unit for smooth yacc compilations
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:09:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libyacc: Loc yacc libpth _a
?MAKE: -pick add $@ %<
?S:libyacc:
?S: This variable contains the argument to pass to the loader in order
?S: to get the yacc library routines.  If there is no yacc or yacc
?S: library, it is null.
?S:.
?T:xxx
: see if we should include -ly
echo " "
case "$yacc" in
*byacc*)
 echo "You are using byacc, so I won't look for a yacc library." >&4
 libyacc=''
 ;;
*yacc)
 xxx=`./loc liby$_a x $libpth`
 case "$xxx" in
 x)
  echo "No yacc library found." >&4
  libyacc=''
  ;;
 *)
  echo "yacc library found in $xxx." >&4
  libyacc="$xxx"
```

```
  ;;
 esac
 ;;
*bison*)
 echo "You are using bison, so I won't look for a yacc library." >&4
 libyacc=''
 ;;
*)
echo "You don't seem to have yacc, so I won't look for the yacc library." >&4
 libyacc=''
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/libyacc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: lib.U,v $
?RCS: Revision 3.0.1.3  1995/09/25  09:16:47  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:38:08  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:27:40  ram
?RCS: patch32: now uses installation prefix to set the default
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lib libexp: Getfile
 Loc Oldconfig Prefixit Prefixup prefixexp
?MAKE: -pick add $@ %<
?Y:TOP
?S:lib:
?S: This variable holds the name of the directory in which the user wants
?S: to put public library files for the package in question.  It is most
```

```
?S: often a local directory such as /usr/local/lib. Programs using this
?S: variable must be prepared to deal with filename expansion.
?S:.
?S:libexp:
?S: This variable is the same as the lib variable, but is filename expanded
?S: at configuration time, for convenient use in your makefiles.
?S:.
: determine where public libraries go
set lib lib
eval $prefixit
case "$lib" in
")
 dflt=`./loc . "." $prefixexp/lib /usr/local/lib /usr/lib /lib`
 set dflt
 eval $prefixup
 ;;
*)  dflt="$lib";;
esac
echo " "
fn=d~
rp='Where do you want to put the public libraries?'
. ./getfile
lib="$ans"
libexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/lib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fchmod.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_fchmod.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:59  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_fchmod: Inlibc
?MAKE: -pick add $@ %<
?S:d_fchmod:
?S: This variable conditionally defines the HAS_FCHMOD symbol, which
```

```
?S: indicates to the C program that the fchmod() routine is available
?S: to change mode of opened files.
?S:.
?C:HAS_FCHMOD (FCHMOD):
?C: This symbol, if defined, indicates that the fchmod routine is available
?C: to
 change mode of opened files.  If unavailable, use chmod().
?C:.
?H:#$d_fchmod HAS_FCHMOD  /**/
?H:.
?LINT:set d_fchmod
: see if fchmod exists
set fchmod d_fchmod
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_fchmod.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Prefixit.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Prefixit.U,v $
?RCS: Revision 3.0.1.1  1995/01/30  14:29:22  ram
?RCS: patch49: created
?RCS:
?X:
?X: Used as: "set dflt var dir; eval $prefixit" to set $dflt to be
?X: $prefix/dir by default, or the previous $var depending on certain
?X: conditions:
?X: - If the $oldprefix variable is empty, then $prefix holds the same
?X:   value as on previous runs. Therefore, reuse $var if set, otherwise
?X:   set $dflt to $prefix/dir.
?X: - If $oldprefix is not
 empty, then set $dflt to $prefix/dir if $var
?X:   is empty (first run). Otherwise, if $var is $oldprefix/dir, then
?X:   change it to $prefix/dir. If none of the above, reuse the old $var.
?X:
?X: When dir is omitted, the dflt variable is set to $var if prefix did not
?X: change, to an empty value otherwise. If dir=none, then a single space
```

```
?X: in var is kept as-is, even if the prefix changes.
?X:
?MAKE:Prefixit: prefix oldprefix
?MAKE: -pick add $@ %<
?LINT:define prefixit
?S:prefixit:
?S: This shell variable is used internally by Configure to reset
?S: the leading installation prefix correctly when it is changed.
?S:  set dflt var [dir]
?S:  eval $prefixit
?S: That will set $dflt to $var or $prefix/dir depending on the
?S: value of $var and $oldprefix.
?S:.
?V:prefixit
?T:tp
: set the prefixit variable, to compute a suitable default value
prefixit='case "$3" in
""|none)
 case "$oldprefix" in
 "") eval "$1=\"\$$2\"";;
 *)
  case "$3" in
  "") eval "$1=";;
  none)
   eval "tp=\"\$$2\"";
   case
 "$tp" in
   ""|" "|none) eval "$1=\"\$$2\"";;
   *) eval "$1=";;
   esac;;
  esac;;
 esac;;
*)
 eval "tp=\"$oldprefix-\$$2-\"", eval "tp=\"$tp\"";
 case "$tp" in
 --|/*--|\~*--) eval "$1=\"$prefix/$3\"";;
 /*-$oldprefix/*|\~*-$oldprefix/*)
  eval "$1=\`echo \$$2 | sed \"s,^$oldprefix,$prefix,\"\`";;
 *) eval "$1=\"\$$2\"";;
 esac;;
esac'
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Prefixit.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_pwritev.U 1 2006-08-24 12:32:52Z rmanfredi $

```
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_pwritev.U,v $
?RCS:
?MAKE:d_pwritev: Inlibc
?MAKE: -pick add $@ %<
?S:d_pwritev:
?S: This variable conditionally defines the HAS_PWRITEV symbol, which
?S: indicates to the C program that the pwritev() routine is available.
?S:.
?C:HAS_PWRITEV :
?C: This symbol, if defined, indicates that the pwritev routine is
?C: available to perform vectored writes on a file descriptor at a
?C: given offset.
?C:.
?H:#$d_pwritev HAS_PWRITEV  /**/
?H:.
?LINT:set
 d_pwritev
: see if pwritev exists
set pwritev d_pwritev
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_pwritev.U
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```
?RCS: $Id: libnlist.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libnlist.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:08:02  ram
?RCS: patch61: added usrinc and mips on the dependency line
```

```
?RCS: patch61: make sure we call ./mips
?RCS: patch61: added a ?LINT: hint
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:00  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libnlist: Loc libpth Guess usrinc _a
?MAKE: -pick add $@ %<
?S:libnlist (libmld):
?S: This variable contains the name of the library required to
 get the
?S: definition of the nlist() function.  On a MIPS RISC/OS box, it is -lmld.
?S: Under Sys Vr4, it is -lelf.  Otherwise, its value is empty.
?S:.
?T:xxx
?LINT:use usrinc
: see if we need a special library for 'nlist()'
echo " "
: How about doing this if nlist is not in libc...
if ./mips ; then
 libnlist='-lmld'
else
 xxx=`./loc libelf$_a x $libpth`
 case "$xxx" in
 x)  ;;
 *)
  libnlist="$xxx"
  ;;
 esac
fi
case "$libnlist" in
") echo "No special library for nlist() seems necessary." >&4
 ;;
*)  echo "nlist() can be found in $libnlist." >&4
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/libnlist.U
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```
?RCS: $Id: charorder.U,v 3.0.1.1 1994/10/29 16:07:08 ram Exp $
?RCS:
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```

```
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: charorder.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:07:08  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:33  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:chorder_int chorder_short chorder_long: Myread cat Compile rm
?MAKE: -pick add $@ %<
?S:chorder_short (d_cos d_bos):
?S: Holds the value describing the byte ordering of characters in a short.
?S: On a Big-Endian machine, that
 would be "c0c1".
?S:.
?S:chorder_int (charoder):
?S: Holds the value describing the byte ordering of characters in an int.
?S: For instance, on a Big-Endian machine, this would be: "c0c1c2c3".
?S:.
?S:chorder_long (d_col d_bol):
?S: Holds the value describing the byte ordering of characters in a long.
?S: On a 64 bits Big-Endian machine, that would yield: "c0c1c2c3c4c5c6c7".
?S:.
?C:CHAR_ORDER_SHORT:
?C: Holds the byte ordering of characters in a short. It's a string
?C: value like "c0c1" on a Big-Endian machine.
?C:.
?C:CHAR_ORDER_INT:
?C: Holds the byte ordering of characters in an int. It's a string
?C: value like "c0c1c2c3" on a Big-Endian machine.
?C:.
?C:CHAR_ORDER_LONG:
?C: Holds the byte ordering of characters in a long. It's a string
?C: value like "c0c1c2c3c4c5c6c7" on a 64 bits Big-Endian machine.
?C:.
?H:#define CHAR_ORDER_SHORT "$chorder_short" /* byte order in a short */
?H:#define CHAR_ORDER_INT "$chorder_int" /* byte order in an int */
?H:#define CHAR_ORDER_LONG "$chorder_long"
 /* byte order in a long */
?H:.
?F:!byteorder
: check for character ordering
echo " "
echo "Checking out byte order..." >&4
$cat >byteorder.c <<'EOCP'
```

```
#include <stdio.h>

int main(argc, argv)
 int argc;
 char *argv[]; {
 int i;
 int max;
 union {
  short u_s;
  int u_i;
  long u_l;
  char u_c[sizeof(long)];
 } u;
 switch (argv[1][0]) {
 case 'l':
  u.u_l = 0L;
  /* HMS: ASSERT: sizeof(long) < 10. */
  for(i = 0; i < sizeof(long); ++i) {
   u.u_l *= 0x100L;
   u.u_l += (0xc0 + i);
  }
  max = sizeof(long);
  break;
 case 's':
  u.u_s = 0;
  /* HMS: ASSERT: sizeof(short) < 10. */
  for(i = 0; i < sizeof(short); ++i) {
   u.u_s *= 0x100L;
   u.u_s += (0xc0 + i);
  }
  max = sizeof(short);
  break;
 case 'i':
  u.u_i = 0;
  /* RAM: ASSERT: sizeof(int) < 10. */
  for(i = 0; i < sizeof(int); ++i) {
   u.u_l *= 0x100L;
   u.u_l += (0xc0 + i);
  }
  max = sizeof(int);
  break;
 default:
  max = 0;
  break;
 }
 for(i = 0; i < max; i++) {
  printf("%x", u.u_c[i] & 0x00FF);
 }
```

```
 printf("\n");
 exit(0);
}
EOCP
set
 byteorder
if eval $compile_ok ; then
 : null statement
@if chorder_short
   chorder_short=`./byteorder s`
@end
@if chorder_int
   chorder_int=`./byteorder i`
@end
@if chorder_long
   chorder_long=`./byteorder l`
@end
else
 $cat <<EOM
(I can't seem to get my test program to work.  Guessing 32 bits big-endian.)
EOM
   chorder_short="c0c1"
   chorder_int="c0c1c2c3"
   chorder_long="c0c1c2c3"
fi
@if chorder_short
dflt=$chorder_short
rp='What is the order of characters in a short?'
. ./myread
chorder_short="$ans"
@end
@if chorder_int
dflt=$chorder_int
rp='What is the order of characters in an int?'
. ./myread
chorder_int="$ans"
@end
@if chorder_long
dflt=$chorder_long
rp='What is the order of characters in a long?'
. ./myread
chorder_long="$ans"
@end
$rm -f byteorder* core
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/charorder.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtod_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtod_l:
?S: This variable conditionally defines the HAS_STRTOD_L symbol, which
?S: indicates to the C program that the strtod_l() routine is available.
?S:.
?C:HAS_STRTOD_L:
?C: This symbol, if defined, indicates that the strtod_l routine is
?C: available to convert strings to long doubles.
?C:.
?H:#$d_strtod_l HAS_STRTOD_L  /**/
?H:.
?LINT:set d_strtod_l
: see if strtod_l exists
set strtod_l d_strtod_l
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_strtod_l.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_neterrno.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:20:29  ram
?RCS: patch36: forgot to initialize 'val' to an empty value (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:22:10  ram
```

```
?RCS: patch32: removed spurious echo
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:02:05  ram
?RCS: patch30: created by ADO
?RCS:
?MAKE:i_neterrno: Inhdr +cc +ccflags rm_try Setvar
?MAKE: -pick add $@ %<
?S:i_neterrno:
?S: This variable
 conditionally defines the I_NET_ERRNO symbol, which
?S: indicates to the C program that <net/errno.h> exists and should
?S: be included.
?S:.
?C:I_NET_ERRNO:
?C: This symbol, if defined, indicates that <net/errno.h> exists and
?C: should be included.
?C:.
?H:#$i_neterrno I_NET_ERRNO  /**/
?H:.
?LINT:set i_neterrno
: see if net/errno.h is available
val=''
set net/errno.h val
eval $inhdr

: Unfortunately, it causes problems on some systems.  Arrgh.
case "$val" in
$define)
 cat > try.c <<'EOM'
#include <stdio.h>
#include <errno.h>
#include <net/errno.h>
int func()
{
 return ENOTSOCK;
}
EOM
 if $cc $ccflags -c try.c >/dev/null 2>&1; then
  echo "We'll be including <net/errno.h>." >&4
 else
  echo "We won't be including <net/errno.h>." >&4
  val="$undef"
 fi
 $rm_try
 ;;
esac
set i_neterrno
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_neterrno.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_castneg.U,v 3.0.1.2 1995/05/12 12:11:21 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_castneg.U,v $
?RCS: Revision 3.0.1.2  1995/05/12  12:11:21  ram
?RCS: patch54: made sure cc and ccflags are conditional dependencies
?RCS: patch54: added improved test case for Interactive Unix
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:10:50  ram
?RCS: patch36: don't forget to tell user about compilation failures (ADO)
?RCS: patch36: declare signal handler correctly using 'signal_t' (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:47  ram
?RCS: Baseline
 for dist 3.0 netwide release.
?RCS:
?X:
?X: Can the compiler cast negative / odd floats to unsigned values.
?X:
?MAKE:d_castneg castflags: cat Compile rm_try Setvar signal_t run i_stdlib
?MAKE: -pick add $@ %<
?S:d_castneg:
?S: This variable conditionally defines CASTNEG, which indicates
?S: whether the C compiler can cast negative float to unsigned.
?S:.
?S:castflags:
?S: This variable contains a flag that precise difficulties the
?S: compiler has casting odd floating values to unsigned long:
?S:  0 = ok
?S:  1 = couldn't cast < 0
?S:  2 = couldn't cast >= 0x80000000
?S:  4 = couldn't cast in argument expression list
?S:.
?C:CASTNEGFLOAT:
?C: This symbol is defined if the C compiler can cast negative
```

```
?C: numbers to unsigned longs, ints and shorts.
?C:.
?C:CASTFLAGS:
?C: This symbol contains flags that say what difficulties the compiler
?C: has casting odd floating values to unsigned long:
?C:  0 = ok
?C:  1 = couldn't cast < 0
?C:  2 = couldn't cast >= 0x80000000
?C:  4 = couldn't
 cast in argument expression list
?C:.
?H:#$d_castneg CASTNEGFLOAT  /**/
?H:#define CASTFLAGS $castflags  /**/
?H:.
?F:!try
?LINT:set d_castneg
: check for ability to cast negative floats to unsigned
echo " "
echo 'Checking whether your C compiler can cast negative float to unsigned.' >&4
$cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <sys/types.h>
#include <signal.h>
$signal_t blech(int s) { exit(7); }
$signal_t blech_in_list(int s) { exit(4); }
unsigned long dummy_long(unsigned long p) { return p; }
unsigned int dummy_int(unsigned int p) { return p; }
unsigned short dummy_short(unsigned short p) { return p; }
int main()
{
 double f;
 unsigned long along;
 unsigned int aint;
 unsigned short ashort;
 int result = 0;
 char str[16];

 /* Frustrate gcc-2.7.2's optimizer which failed this test with
    a direct f = -123. assignment.  gcc-2.8.0 reportedly
    optimized the whole file away
 */
 /* Store the number in a writable
 string for gcc to pass to
    sscanf under HP-UX.
```

```
 */
 sprintf(str, "-123");
 sscanf(str, "%lf", &f);  /* f = -123.; */

 signal(SIGFPE, blech);
 along = (unsigned long)f;
 aint = (unsigned int)f;
 ashort = (unsigned short)f;
 if (along != (unsigned long)-123)
  result |= 1;
 if (aint != (unsigned int)-123)
  result |= 1;
 if (ashort != (unsigned short)-123)
  result |= 1;
 sprintf(str, "1073741824.");
 sscanf(str, "%lf", &f); /* f = (double)0x40000000; */
 f = f + f;
 along = 0;
 along = (unsigned long)f;
 if (along != 0x80000000)
  result |= 2;
 f -= 1.;
 along = 0;
 along = (unsigned long)f;
 if (along != 0x7fffffff)
  result |= 1;
 f += 2.;
 along = 0;
 along = (unsigned long)f;
 if (along != 0x80000001)
  result |= 2;
 if (result)
  exit(result);
?X:
?X: The following is a test for Interactive Unix Version 4.1, which
?X: has an 'improved' compiler which can correctly cast negative
?X: floats in expression lists, but apparently not in argument lists.
?X: Contributed by Winfried Koenig
 <win@incom.rhein-main.de>
?X:
 signal(SIGFPE, blech_in_list);
 sprintf(str, "123.");
 sscanf(str, "%lf", &f);  /* f = 123.; */
 along = dummy_long((unsigned long)f);
 aint = dummy_int((unsigned int)f);
 ashort = dummy_short((unsigned short)f);
 if (along != (unsigned long)123)
  result |= 4;
```

```
 if (aint != (unsigned int)123)
  result |= 4;
 if (ashort != (unsigned short)123)
  result |= 4;
 exit(result);

}
EOCP
set try
if eval $compile_ok; then
 $run ./try 2>/dev/null
 castflags=$?
else
 echo "(I can't seem to compile the test program--assuming it can't)"
 castflags=7
fi
case "$castflags" in
0) val="$define"
 echo "Yup, it can."
 ;;
*) val="$undef"
 echo "Nope, it can't."
 ;;
esac
set d_castneg
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_castneg.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strftime.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:36  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strftime: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_strftime:
?S: This variable conditionally defines HAS_STRFTIME if strftime() is
?S: available to format locale-specific times.
?S:.
?C:HAS_STRFTIME:
?C: This symbol, if defined, indicates that the strftime routine is
?C: available to format locale-specific times.
?C:.
?H:#$d_strftime HAS_STRFTIME /**/
?H:.
?LINT:set d_strftime
: see
 if strftime exists
set strftime d_strftime
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strftime.U
No license file was found, but licenses were detected in source scan.

```
# $Id: errnolist.a,v 3.0 1993/08/18 12:04:35 ram Exp ram $
#
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#
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#  as specified in the README file that comes with the distribution.
#  You may reuse parts of this distribution only within the terms of
#  that same Artistic Licence; a copy of which may be found at the root
#  of the source tree for dist 4.0.
#
# Original Author: Harlan Stenn <harlan@mumps.pfcs.com>
#
# $Log: errnolist.a,v $
# Revision 3.0  1993/08/18 12:04:35  ram
# Baseline for dist 3.0 netwide release.
#
#
# This is a simple-minded awk script to generate an initialization for
# sys_errnolist on systems that don't have it.
# This file now depends only on sys/errno.h error numbers under maxerr being
# in order.  It will complain and die if not.  NOTE: It will still produce
# a compilable output file, even with errors, so you
 must check the output.


BEGIN  {
```

```
  format = "\t\"%s\",\n"
  printf("/*\n** This is a generated file.  Do NOT edit it unless you really have to...\n*/\n\n")
  printf("char *sys_errnolist[] = {\n")
  maxerr = 89
 }

$1=="#define" {
  if(count > maxerr || substr($2,1,1) != "E")
   next   # we're not interested
  if($3 < count) { # this is bad
   printf("Fatal error: %s out of order at %s\n",\
   FILENAME, $2)>"/dev/tty"
   exit 1
  }
  # fill in the blanks
  while($3 > count) {
   dummy=sprintf("EDUMMY%d",count)
   printf(format,dummy)
   count++
  }
  printf(format,$2)
  count++
 }

END  {
  printf("\t0\n};\n")
 }
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/errnolist.a
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_scannl.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:41:27  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  13:59:12  ram
```

```
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:00  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Does the scanf routine read "\n" correctly ? This is was not
?X: the case on AIX...
?X:
?MAKE:d_scannl: cat +cc +ccflags rm Setvar
?MAKE: -pick add $@ %<
?S:d_scannl:
?S: This
 variable conditionally defines SCAN_NL, which indicates
?S: wether the C library routines scanf() and friends can deal with
?S: a '\n' in the input correctly. They do most of the time.
?S:.
?C:SCAN_NL:
?C: This symbol is defined if the C library routines scanf() and friends
?C: can deal with a '\n' in the input correctly, so that you can say
?C: scanf("%d\n"); instead of scanf("%d"); getc(c); to handle the '\n'.
?C:.
?H:#$d_scannl SCAN_NL  /* scanf("%d\n") works */
?H:.
?F:!try
?LINT:set d_scannl
: does scanf handle "\n" correctly ?
echo " "
val="$define"
?X: I really want to say "\n" instead of '\n', because I am referring
?X: to the string given as argument to scanf().
echo 'Let""""s see if scanf() handles "\\n" correctly...' >&4
$cat >try.c <<'EOCP'
int main()
{
 int i = 0, j = 0;
 scanf("%d\n%d", &i, &j);
 if (j != 3)
  exit(1);
 exit(0);
}
EOCP
if $cc $ccflags -o try try.c >/dev/null 2>&1; then
 if ./try <<'EOD'
2
3
EOD
 then
```

```
  echo "Yes, it does."
 else
  echo "No, it doesn't."
  val="$undef"
 fi
else
 echo
 "(I can't seem to compile the test program. Assuming it does.)"
fi
set d_scannl
eval $setvar
$rm -f try.* try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_scannl.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_db.U,v $
?RCS: Revision 3.0.1.3  1995/07/25  14:10:22  ram
?RCS: patch56: conditionally use const in test programs (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1995/05/12  12:14:42  ram
?RCS: patch54: extended for more intimate DB probing (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:21:50  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:i_db db_hashtype db_prefixtype: Inhdr +cc +ccflags rm_try contains cat \
  d_const
?MAKE: -pick
 add $@ %<
?S:i_db:
?S: This variable conditionally defines the I_DB symbol, and indicates
?S: whether a C program may include Berkeley's DB include file <db.h>.
?S:.
```

```
?S:db_hashtype:
?S: This variable contains the type of the hash structure element
?S: in the <db.h> header file.  In older versions of DB, it was
?S: int, while in newer ones it is u_int32_t.
?S:.
?S:db_prefixtype:
?S: This variable contains the type of the prefix structure element
?S: in the <db.h> header file.  In older versions of DB, it was
?S: int, while in newer ones it is size_t.
?S:.
?C:I_DB:
?C: This symbol, if defined, indicates to the C program that it should
?C: include Berkeley's DB include file <db.h>.
?C:.
?C:DB_Prefix_t:
?C: This symbol contains the type of the prefix structure element
?C: in the <db.h> header file.  In older versions of DB, it was
?C: int, while in newer ones it is u_int32_t.
?C:.
?C:DB_Hash_t:
?C: This symbol contains the type of the prefix structure element
?C: in the <db.h> header
 file.  In older versions of DB, it was
?C: int, while in newer ones it is size_t.
?C:.
?H:#$i_db I_DB  /**/
?H:#define DB_Hash_t $db_hashtype  /**/
?H:#define DB_Prefix_t $db_prefixtype   /**/
?H:.
?LINT:set i_db
: see if this is a db.h system
set db.h i_db
eval $inhdr

@if DB_Hash_t
case "$i_db" in
define)
 : Check the return type needed for hash
 echo " "
 echo "Checking return type needed for hash for Berkeley DB ..." >&4
 $cat >try.c <<EOCP
#$d_const HASCONST
#ifndef HASCONST
#define const
#endif
#include <sys/types.h>
#include <db.h>
u_int32_t hash_cb (ptr, size)
```

```
const void *ptr;
size_t size;
{
}
HASHINFO info;
int main()
{
 info.hash = hash_cb;
}
EOCP
 if $cc $ccflags -c try.c >try.out 2>&1 ; then
  if $contains warning try.out >>/dev/null 2>&1 ; then
   db_hashtype='int'
  else
   db_hashtype='u_int32_t'
  fi
 else
  echo "I can't seem to compile the test program." >&4
  db_hashtype=int
 fi
 $rm_try
 echo "Your version of Berkeley DB uses $db_hashtype for hash."
 ;;
*) db_hashtype=int
 ;;
esac

@end
@if
 DB_Prefix_t
case "$i_db" in
define)
 : Check the return type needed for prefix
 echo " "
 echo "Checking return type needed for prefix for Berkeley DB ..." >&4
 cat >try.c <<EOCP
#$d_const HASCONST
#ifndef HASCONST
#define const
#endif
#include <sys/types.h>
#include <db.h>
size_t prefix_cb (key1, key2)
const DBT *key1;
const DBT *key2;
{
}
BTREEINFO info;
```

```
int main()
{
 info.prefix = prefix_cb;
}
EOCP
 if $cc $ccflags -c try.c  >try.out 2>&1 ; then
  if $contains warning try.out >>/dev/null 2>&1 ; then
   db_prefixtype='int'
  else
   db_prefixtype='size_t'
  fi
 else
  echo "I can't seem to compile the test program." >&4
  db_prefixtype='int'
 fi
 $rm_try
 echo "Your version of Berkeley DB uses $db_prefixtype for prefix."
 ;;
*) db_prefixtype='int'
 ;;
esac

@end
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_db.U
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_socket.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:46:00  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:08:04  ram
?RCS: patch16: can now safely declare private nm_extract in dependencies
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:26  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?MAKE:d_socket d_oldsock d_sockpair socketlib sockethdr: contains libc \
 echo n c nm_opt nm_extract Inlibc Csym _a
?MAKE: -pick add $@ %<
?S:d_socket:
?S: This
 variable conditionally defines HAS_SOCKET, which indicates
?S: that the BSD socket interface is supported.
?S:.
?S:d_sockpair:
?S: This variable conditionally defines the HAS_SOCKETPAIR symbol, which
?S: indicates that the BSD socketpair() is supported.
?S:.
?S:d_oldsock:
?S: This variable conditionally defines the OLDSOCKET symbol, which
?S: indicates that the BSD socket interface is based on 4.1c and not 4.2.
?S:.
?S:socketlib:
?S: This variable has the names of any libraries needed for socket support.
?S:.
?S:sockethdr:
?S: This variable has any cpp -I flags needed for socket support.
?S:.
?C:HAS_SOCKET (SOCKET):
?C: This symbol, if defined, indicates that the BSD socket interface is
?C: supported.
?C:.
?C:HAS_SOCKETPAIR (SOCKETPAIR):
?C: This symbol, if defined, indicates that the BSD socketpair() call is
?C: supported.
?C:.
?C:USE_OLDSOCKET (OLDSOCKET):
?C: This symbol, if defined, indicates that the 4.1c BSD socket interface
?C: is supported instead of the 4.2/4.3 BSD
 socket interface. For instance,
?C: there is no setsockopt() call.
?C:.
?H:#$d_socket HAS_SOCKET  /**/
?H:#$d_sockpair HAS_SOCKETPAIR /**/
?H:#$d_oldsock USE_OLDSOCKET /**/
?H:.
?T:val
?LINT:use libc
?LINT:set d_sockpair
: see whether socket exists
socketlib=''
sockethdr=''
echo " "
```

```
$echo $n "Hmm... $c" >&4
if set socket val -f d_socket; eval $csym; $val; then
 echo "Looks like you have Berkeley networking support." >&4
 d_socket="$define"
?X: now check for advanced features
 if set setsockopt val -f; eval $csym; $val; then
  d_oldsock="$undef"
 else
  echo "...but it uses the old 4.1c interface, rather than 4.2" >&4
  d_oldsock="$define"
 fi
else
?X: HP-UX, for one, puts all the socket stuff in socklib.o. Note that if we
?X: come here on HP-UX, then we must have used nm to get symbols, or we really
?X: don't have sockets anyway...
 if $contains socklib libc.list >/dev/null 2>&1; then
  echo "Looks like you have Berkeley networking support." >&4
  d_socket="$define"
  : we will have
 to assume that it supports the 4.2 BSD interface
  d_oldsock="$undef"
 else
  echo "You don't have Berkeley networking in libc$_a..." >&4
?X: look for an optional networking library
  if test -f /usr/lib/libnet$_a; then
?X: space between two  '(' needed for ksh
   ( (nm $nm_opt /usr/lib/libnet$_a | eval $nm_extract) ||  \
   ar t /usr/lib/libnet$_a) 2>/dev/null >> libc.list
   if $contains socket libc.list >/dev/null 2>&1; then
   echo "...but the Wollongong group seems to have hacked it in." >&4
    socketlib="-lnet"
    sockethdr="-I/usr/netinclude"
    d_socket="$define"
?X: now check for advanced features
    if $contains setsockopt libc.list >/dev/null 2>&1; then
     d_oldsock="$undef"
    else
     echo "...using the old 4.1c interface, rather than 4.2" >&4
     d_oldsock="$define"
    fi
   else
    echo "or even in libnet$_a, which is peculiar." >&4
    d_socket="$undef"
    d_oldsock="$undef"
   fi
  else
   echo "or anywhere else I see." >&4
   d_socket="$undef"
```

```
   d_oldsock="$undef"
  fi
 fi
fi

@if
 HAS_SOCKETPAIR || d_sockpair
: see if socketpair exists
set socketpair d_sockpair
eval $inlibc

@end
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_socket.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?MAKE:gccversion gccosandvers: cat cpp rm +cc \
 Myread Guess Options Oldconfig Loc osname osvers grep run ccname
?MAKE: -pick add $@ %<
?S:gccversion:
?S: If GNU cc (gcc) is used, this variable holds '1' or '3' (for instance)
?S: to indicate whether the compiler is version 1 or 3.  This is used in
?S: setting some of the default cflags.  It is set to '' if not gcc.
?S:.
?S:gccosandvers:
?S: If GNU cc (gcc) is used, this variable the operating system and
?S: version
 used to compile the gcc.  It is set to '' if not gcc,
?S: or if nothing useful can be parsed as the os version.
?S:.
?T:gccshortvers incdir d
?F:!try.c !try
?LINT:extern locincpth ccflags ldflags
?LINT:change locincpth ccname cpp
```

```
: Check whether they have gcc in any guise.
echo " "
echo "Checking for GNU cc in disguise and/or its version number..." >&4
$cat >try.c <<EOM
#include <stdio.h>
int main() {
#ifdef __GNUC__
#ifdef __VERSION__
 printf("%s\n", __VERSION__);
#else
 printf("%s\n", "1");
#endif
#endif
 exit(0);
}
EOM
if $cc -o try $ccflags $ldflags try.c >/dev/null 2>&1; then
 gccversion=`$run ./try`
 case "$gccversion" in
 ") echo "You are not using GNU cc." ;;
 *)  echo "You are using GNU cc $gccversion."
     ccname=gcc
     ;;
 esac
else
 echo " "
 echo "*** WHOA THERE!!! ***" >&4
 echo "    Your C compiler \"$cc\" doesn't seem to be working!" >&4
?X: using -K will prevent aborting--maybe they're cross compiling?
 case "$knowitall" in
 ")
 echo "    You'd better
 start hunting for one and let me know about it." >&4
  exit 1
  ;;
 esac
fi
$rm -f try try.*
case "$gccversion" in
1*) cpp=`./loc gcc-cpp $cpp $pth` ;;
esac
case "$gccversion" in
") gccosandvers=" ;;
*) gccshortvers=`echo "$gccversion"|sed 's/ .*//'`
  gccosandvers=`$cc -v 2>&1 | \
 $grep '/specs$'|sed "s!.*/[^-/]*-[^-/]*-\([^-/]*\)/$gccshortvers/specs!\1!"`
  gccshortvers="
  case "$gccosandvers" in
```

```
  $osname) gccosandvers=" ;; # linux gccs seem to have no linux osvers, grr
  $osname$osvers) ;; # looking good
  $osname*) cat <<EOM >&4

*** WHOA THERE!!! ***

   Your gcc has not been compiled for the exact release of
   your operating system ($gccosandvers versus $osname$osvers).

   In general it is a good idea to keep gcc synchronized with
   the operating system because otherwise serious problems
   may ensue when trying to compile software, like Perl.

   I'm trying to be optimistic here, though, and will continue.
   If later during the configuration and build icky
 compilation
   problems appear (headerfile conflicts being the most common
   manifestation), I suggest reinstalling the gcc to match
   your operating system release.

EOM
     ;;
  *) gccosandvers=" ;; # failed to parse, better be silent
  esac
  ;;
esac
case "$ccname" in
") ccname="$cc" ;;
esac

: gcc 3.1 complains about adding -Idirectories that it already knows about,
: so we will take those off from locincpth.
case "$gccversion" in
3*)
   echo "main(){}">try.c
   for incdir in `$cc -v -c try.c 2>&1 | \
      sed '1,/^#include <\.\.\.>/d;/^End of search list/,$d;s/^ //'` ; do
      locincpth=`echo $locincpth | sed s!$incdir!!`
   done
   $rm -f try try.*
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/gccvers.U
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?RCS: $Id: libc.U 1 2006-08-24 12:32:52Z rmanfredi $

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libc.U,v $
?RCS: Revision 3.0.1.10  1997/02/28  15:56:48  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: added support for HPUX-10 nm output
?RCS:
?RCS: Revision 3.0.1.9  1995/07/25  14:11:56  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.8  1995/05/12  12:20:47  ram
?RCS: patch54: made sure only most recent version of shared lib is picked
?RCS: patch54: final "nm -p" check now uses xscan and xrun
 like everybody
?RCS: patch54: can now grok Linux nm output with lead __IO (ADO)
?RCS: patch54: added support for Linux ELF output, using 'W' for alias (ADO)
?RCS:
?RCS: Revision 3.0.1.7  1994/10/29  16:23:40  ram
?RCS: patch36: now looks for shared libraries before anything else (ADO)
?RCS: patch36: added new nm output format (ADO)
?RCS:
?RCS: Revision 3.0.1.6  1994/08/29  16:28:10  ram
?RCS: patch32: added I-type symbols for nm output parsing on Linux
?RCS:
?RCS: Revision 3.0.1.5  1994/06/20  07:03:24  ram
?RCS: patch30: checks are now presented by succession of if/elif
?RCS: patch30: uniformized checks for shared objects with new so symbol
?RCS:
?RCS: Revision 3.0.1.4  1994/05/06  15:06:33  ram
?RCS: patch23: added shared library knowledge (ADO and WED)
?RCS:
?RCS: Revision 3.0.1.3  1994/01/24  14:12:17  ram
?RCS: patch16: can now export nm_extract as an internal-use only variable
?RCS:
?RCS: Revision 3.0.1.2  1993/09/13  16:09:03  ram
?RCS: patch10: added special handling for Apollo
 systems (WAD)
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:40:03  ram
?RCS: patch7: added entry for /usr/shlib/libc.so (OSF/1 machines)
?RCS:
```

```
?RCS: Revision 3.0  1993/08/18  12:08:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libc +nm_extract: echo n c rm test grep Getfile Myread Oldconfig Loc \
 sed libs incpath libpth ar runnm nm nm_opt nm_so_opt contains xlibpth \
 so _a _o osname trnl tr sort uniq sysroot
?MAKE: -pick add $@ %<
?S:libc:
?S: This variable contains the location of the C library.
?S:.
?S:nm_extract:
?S: This variable holds the name of the extraction command used to process
?S: the output of nm and yield the list of defined symbols. It is used
?S: internally by Configure.
?S:.
?T:thislib try libnames xxx xscan xrun thisname com tans file
?F:!libnames !libc.tmp !tmp.imp
?LINT:extern PASE
?LINT:extern libnames
?LINT:change nm_opt
?INIT:libnames=''
: Figure out where the libc is located
case "$runnm" in
true)
?X: indentation is wrong on purpose--RAM
:
 get list of predefined functions in a handy place
echo " "
case "$libc" in
'') libc=unknown
 case "$libs" in
 *-lc_s*) libc=`./loc libc_s$_a $libc $libpth`
 esac
 ;;
esac
case "$libs" in
'') ;;
*)  for thislib in $libs; do
 case "$thislib" in
 -lc|-lc_s)
  : Handle C library specially below.
  ;;
 -l*)
  thislib=`echo $thislib | $sed -e 's/^-l//'`
  if try=`./loc lib$thislib.$so.'*' X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib.$so X $libpth`; $test -f "$try"; then
   :
```

```
  elif try=`./loc lib$thislib$_a X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc $thislib$_a X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc $thislib X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc Slib$thislib$_a X $xlibpth`; $test -f "$try"; then
   :
  else
   try=''
  fi
  libnames="$libnames $try"
  ;;
 *) libnames="$libnames $thislib" ;;
 esac
 done
 ;;
esac
?X:
?X: Some systems (e.g. DG/UX) use
 "environmental" links, which make the test
?X: -f fail. Ditto for symbolic links. So in order to reliably check the
?X: existence of a file, we use test -r. It will still fail with DG/UX links
?X: though, but at least it will detect symbolic links. At some strategic
?X: points, we make use of (test -h), using a sub-shell in case builtin test
?X: does not implement the -h check for symbolic links. This makes it
?X: possible to preset libc in a hint file for instance and have it show up
?X: as-is in the question.
?X:
xxx=normal
case "$libc" in
unknown)
?X:
?X: The sed below transforms .so.9 .so.12 into something like .so.0009 .so.0012,
?X: then sorts on it to allow keeping .so.12 instead of .so.9 as the latest
?X: up-to-date library. The initial filename (before sed munging, saved in hold
?X: space via 'h') is appended via 'G' before sorting, then the leading munged
?X: part is removed after sorting. Nice efficient work from Tye McQueen.
?X: The initial blurfl is here to prevent the trailing
 pipe from producing an
?X: empty string, causing Configure to output all its set variables!
?X:
 set /lib/libc.$so
 for xxx in $libpth; do
  $test -r $1 || set $xxx/libc.$so
  : The messy sed command sorts on library version numbers.
```

```
  $test -r $1 || \
   set `echo blurfl; echo $xxx/libc.$so.[0-9]* | \
   tr ' ' $trnl | egrep -v '\.[A-Za-z]*$' | $sed -e '
    h
    s/[0-9][0-9]*/0000&/g
    s/0*\([0-9][0-9][0-9][0-9][0-9]\)/\1/g
    G
    s/\n/ /' | \
    $sort | $sed -e 's/^.* //'`
  eval set \$$#
 done
 $test -r $1 || set $sysroot/usr/ccs/lib/libc.$so
 $test -r $1 || set $sysroot/lib/libsys_s$_a
 ;;
*)
?X: ensure the test below for the (shared) C library will fail
 set blurfl
 ;;
esac
if $test -r "$1"; then
 echo "Your (shared) C library seems to be in $1."
 libc="$1"
elif $test -r /lib/libc && $test -r /lib/clib; then
?X:
?X: Apollo has its C library in /lib/clib AND /lib/libc
?X: not to mention its math library in /lib/syslib...
?X:
 echo "Your C library seems to be in both /lib/clib
 and /lib/libc."
 xxx=apollo
 libc='/lib/clib /lib/libc'
 if $test -r /lib/syslib; then
  echo "(Your math library is in /lib/syslib.)"
?X: Put syslib in libc -- not quite right, but won't hurt
  libc="$libc /lib/syslib"
 fi
elif $test -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
 echo "Your C library seems to be in $libc, as you said before."
?X: For mips, and...
elif $test -r $incpath/usr/lib/libc$_a; then
 libc=$incpath/usr/lib/libc$_a;
 echo "Your C library seems to be in $libc.  That's fine."
elif $test -r /lib/libc$_a; then
 libc=/lib/libc$_a;
 echo "Your C library seems to be in $libc.  You're normal."
else
 if tans=`./loc libc$_a blurfl/dyick $libpth`; $test -r "$tans"; then
  :
```

```
 elif tans=`./loc libc blurfl/dyick $libpth`; $test -r "$tans"; then
  libnames="$libnames "`./loc clib blurfl/dyick $libpth`
 elif tans=`./loc clib blurfl/dyick $libpth`; $test -r "$tans"; then
  :
 elif tans=`./loc Slibc$_a blurfl/dyick $xlibpth`; $test -r "$tans"; then
  :
 elif tans=`./loc
 Mlibc$_a blurfl/dyick $xlibpth`; $test -r "$tans"; then
  :
 else
  tans=`./loc Llibc$_a blurfl/dyick $xlibpth`
 fi
 if $test -r "$tans"; then
  echo "Your C library seems to be in $tans, of all places."
  libc=$tans
 else
  libc='blurfl'
 fi
fi
if $test $xxx = apollo -o -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
 dflt="$libc"
 cat <<EOM

If the guess above is wrong (which it might be if you're using a strange
compiler, or your machine supports multiple models), you can override it here.

EOM
else
 dflt="
 echo $libpth | $tr ' ' $trnl | $sort | $uniq > libpath
 cat >&4 <<EOM
I can't seem to find your C library.  I've looked in the following places:

EOM
 $sed 's/^/ /' libpath
 cat <<EOM

None of these seems to contain your C library. I need to get its name...

EOM
fi
fn=f
rp='Where is your C library?'
. ./getfile
libc="$ans"

echo " "
echo $libc $libnames | $tr ' ' $trnl | $sort | $uniq > libnames
```

```
set X `cat libnames`
shift
xxx=files
case $# in 1) xxx=file; esac
echo
 "Extracting names from the following $xxx for later perusal:" >&4
echo " "
$sed 's/^/ /' libnames >&4
echo " "
$echo $n "This may take a while...$c" >&4

?X:
?X: Linux may need the special Dynamic option to nm for shared libraries.
?X: In general, this is stored in the nm_so_opt variable.
?X: Unfortunately, that option may be fatal on non-shared libraries.
?X:
for file in $*; do
 case $file in
 *$so*) $nm $nm_so_opt $nm_opt $file 2>/dev/null;;
 *) $nm $nm_opt $file 2>/dev/null;;
 esac
done >libc.tmp

$echo $n ".$c"
?X:
?X: To accelerate processing, we look at the correct 'sed' command
?X: by using a small subset of libc.tmp, i.e. fprintf function.
?X: When we know which sed command to use, do the name extraction
?X:
$grep fprintf libc.tmp > libc.ptf
?X:
?X: In order to enhance readability and save some space, we define
?X: some variables that will be "eval"ed.
?X:
xscan='eval "<libc.ptf $com >libc.list"; $echo $n ".$c" >&4'
xrun='eval "<libc.tmp $com >libc.list"; echo "done." >&4'
?X:
 BSD-like output, I and W types added for Linux
?X: Some versions of Linux include a leading __IO in the symbol name.
?X: HP-UX 10 reportedly has trailing spaces, though I'm surprised it has
?X: BSD-like output.  (AD).
?X: GNU extension: i is "indirect function"
xxx='[ADTSIWi]'
if com="$sed -n -e 's/__IO//' -e 's/^.* $xxx  *//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: SYSV-like output
```

```
elif com="$sed -n -e 's/^__*//' -e 's/^\([a-zA-Z_0-9$]*\).*xtern.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e '/|UNDEF/d' -e '/FUNC..GL/s/^.*|__*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.* D __*//p' -e 's/^.* D //p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^_//' -e 's/^\([a-zA-Z_0-9]*\).*xtern.*text.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$'
 libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$grep '|' | $sed -n -e '/|COMMON/d' -e '/|DATA/d' \
    -e '/ file/d' -e 's/^\([^  ]*\).*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|//p' -e 's/^.*|FUNC |WEAK .*|//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: mips nm output (sysV)
elif com="$sed -n -e 's/^__//' -e '/|Undef/d' -e '/|Proc/s/ .*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|Proc .*|Text *| *//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e '/Def. Text/s/.* \([^ ]*\)\$/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: OS/2
 nm output
elif com="$sed -n -e 's/^[-0-9a-f ]*_\(.*\)=.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
```

```
  eval $xrun
elif com="$sed -n -e 's/.*\.text n\ \ \ \.//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: AIX nm output
elif com="sed -n -e 's/^__.*//' -e 's/[       ]*D[    ]*[0-9]*.*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
else
 $nm -p $* 2>/dev/null >libc.tmp
 $grep fprintf libc.tmp > libc.ptf
 if com="$sed -n -e 's/^.* [ADTSIW]  *_[_.]*//p' -e 's/^.* [ADTSIW] //p'";\
  eval $xscan; $contains '^fprintf$' libc.list >/dev/null 2>&1
 then
  nm_opt='-p'
  eval $xrun
 else
  echo " "
  echo "$nm didn't seem to work right. Trying $ar instead..." >&4
  com="
  if $ar t $libc > libc.tmp && \
   $contains '^fprintf$' libc.tmp >/dev/null 2>&1
  then
   for thisname in $libnames $libc; do
    $ar t $thisname >>libc.tmp
   done
   $sed -e "s/\\$_o\$//" < libc.tmp > libc.list
   echo
 "Ok." >&4
  elif test "X$osname" = "Xos2" && $ar tv $libc > libc.tmp; then
?X: Repeat libc to extract forwarders to DLL entries too
   for thisname in $libnames $libc; do
    $ar tv $thisname >>libc.tmp
?X: Revision 50 of EMX has bug in ar: it will not extract forwarders
?X: to DLL entries.  Use emximp which will extract exactly them.
    emximp -o tmp.imp $thisname \
        2>/dev/null && \
        $sed -e 's/^\([_a-zA-Z0-9]*\) .*$/\1/p' \
        < tmp.imp >>libc.tmp
    $rm -f tmp.imp
   done
   $sed -e "s/\\$_o\$//" -e 's/^ \+//' < libc.tmp > libc.list
   echo "Ok." >&4
  else
   echo "$ar didn't seem to work right." >&4
   echo "Maybe this is a Cray...trying bld instead..." >&4
```

```
   if  bld t $libc | \
    $sed -e 's/.*\///' -e "s/\\$_o:.*\$//" > libc.list &&
    $test -s libc.list
   then
    for thisname in $libnames; do
     bld t $libnames | \
     $sed -e 's/.*\///' -e "s/\\$_o:.*\$//" >>libc.list
     $ar t $thisname >>libc.tmp
    done
    echo "Ok." >&4
   else
    echo
 "That didn't work either.  Giving up." >&4
    exit 1
   fi
  fi
 fi
fi
nm_extract="$com"
case "$PASE" in
define)
   echo " "
   echo "Since you are compiling for PASE, extracting more symbols from libc.a ...">&4
   dump -Tv /lib/libc.a | awk '$7 == "/unix" {print $5 " " $8}' | grep "^SV" | awk '{print $2}' >> libc.list
   ;;
*)  if $test -f /lib/syscalls.exp; then
 echo " "
 echo "Also extracting names from /lib/syscalls.exp for good ole AIX..." >&4
 $sed -n 's/^\([^  ]*\)[  ]*syscall[0-9]*[  ]*$/\1/p' \
  /lib/syscalls.exp >>libc.list
   fi
   ;;
esac
;;
esac
$rm -f libnames libpath
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/libc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Configdir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Configdir.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  14:58:36  ram
?RCS: patch61: have README explicitly mention the package name
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:49  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:Configdir: package
?MAKE: -pick add $@ %<
: create .config dir to save info across Configure sessions
test -d ../.config || mkdir ../.config
cat >../.config/README <<EOF
This directory created by Configure to save
 information that should
persist across sessions for $package.

You may safely delete it if you wish.
EOF
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Configdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Obsol_sh.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Obsol_sh.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:11  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file is prepended to .MT/Obsol_sh if that file is not empty. That file
?X: contains the necessary mappings of new symbols to obsolete ones.
?X:
?MAKE:Obsol_sh:
?MAKE: -pick prepend $@ ./Obsol_sh
```

```
?LINT:nocomment
#
# The following symbols are obsolete. They are mapped to the new
# symbols only to ease the transition process. The
 sources should be
# updated so as to use the new symbols only, since supporting of those
# obsolete symbols may end without notice.
#
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Obsol_sh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:usemorebits: Setvar
?MAKE: -pick add $@ %<
?Y:TOP
?S:usemorebits:
?S: This variable conditionally defines the USE_MORE_BITS symbol,
?S: and indicates that explicit 64-bit interfaces and long doubles
?S: should be used when available.
?S:.
?C:USE_MORE_BITS:
?C: This symbol, if defined, indicates that 64-bit interfaces and
?C: long doubles should be used when available.
?C:.
?H:?%<:#ifndef USE_MORE_BITS
?H:?%<:#$usemorebits USE_MORE_BITS  /**/
?H:?%<:#endif
?H:.
?LINT:extern use64bitint
?LINT:change use64bitint
?LINT:extern uselongdouble
?LINT:change uselongdouble
: Check if morebits is requested
case "$usemorebits" in
"$define"|true|[yY]*)
 use64bitint="$define"
 uselongdouble="$define"
 usemorebits="$define"
 ;;
```

```
*) usemorebits="$undef"
 ;;
esac
```

Found
 in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/usemorebits.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Csym.U,v 3.0.1.4 1995/07/25 13:36:29 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Csym.U,v $
?RCS: Revision 3.0.1.4  1995/07/25  13:36:29  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS: patch56: added quotes for OS/2 support
?RCS:
?RCS: Revision 3.0.1.3  1995/05/12  12:00:33  ram
?RCS: patch54: fixed C test program to bypass gcc builtin type checks (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/10/31  09:34:13  ram
?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U
?RCS:
?RCS: Revision
 3.0.1.1  1993/08/25  14:00:05  ram
?RCS: patch6: added ldflags as a conditional dependency and to compile line
?RCS: patch6: a final double quote was missing in csym variable after eval
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:Csym mistrustnm extern_C: Options contains libc libs runnm test \
 +cc +optimize +ccflags +ldflags run rm_try _exe d_cplusplus
?MAKE: -pick add $@ %<
?LINT:define csym
?LINT:use libc
?LINT:extern mistrustnm
?LINT:set mistrustnm
?S:csym:
?S: This shell variable is used internally by Configure to check
```

```
?S: whether a given C symbol is defined or not. A typical use is:
?S:  set symbol result [-fva] [previous]
?S:  eval $csym
?S: That will set result to 'true' if the function [-f], variable [-v]
?S: or array [-a] is defined, 'false' otherwise. If a previous value is
?S: given and the -r flag was provided on the command line, that value
?S: is reused without questioning.
?S:.
?S:extern_C:
?S: ANSI C
 requires 'extern' where C++ requires 'extern "C"'. This
?S: variable can be used in Configure to do the right thing.
?S:.
?S:mistrustnm:
?S: This variable can be used to establish a fallthrough for the cases
?S: where nm fails to find a symbol.  If usenm is false or usenm is true
?S: and mistrustnm is false, this variable has no effect.  If usenm is true
?S: and mistrustnm is "compile", a test program will be compiled to try to
?S: find any symbol that can't be located via nm lookup.  If mistrustnm is
?S: "run", the test program will be run as well as being compiled.
?S:.
?V:csym
?T:tval tx tlook tf tdc
?F:!try
: is a C symbol defined?
csym='tlook=$1;
case "$3" in
-v) tf=libc.tmp; tdc="";;
-a) tf=libc.tmp; tdc="[]";;
*) tlook="^$1\$"; tf=libc.list; tdc="()";;
esac;
case "$d_cplusplus" in
   $define) extern_C="extern \"C\"" ;;
   *)  extern_C="extern" ;;
esac;
tx=yes;
case "$reuseval-$4" in
true-) ;;
true-*) tx=no; eval "tval=\$$4"; case "$tval" in "") tx=yes;; esac;;
esac;
case "$tx"
 in
yes)
?X:
?X: Put symbol inside a printf to fool optimizing compilers...
?X:
?X: We use 'short' instead of 'int' to try to circumvent overzealous
?X: optimizing compilers using built-in prototypes for commonly used
```

```
?X: routines to complain when seeing a different external declaration. For
?X: instance, gcc 2.6.3 fails if we use 'int' and we attempt a test against
?X: memcpy() on machines where sizeof(int) == sizeof(char *) (the usual return
?X: type), the compiler assuming it's a built-in declaration given that the
?X: returned size matches. At least with 'short' we are safe! -- RAM, for ADO
?X:
?X: Let's thank GNU cc for making our lives so easy! :-)
?X: (An alternative for the future would be to use our knowledge about gcc
?X: to force a -fno-builtin option in the compile test, in case the 'short'
?X: trick is obsoleted by future gcc releases). -- RAM
?X:
 tval=false;
 if $test "$runnm" = true; then
  if $contains $tlook $tf >/dev/null 2>&1; then
   tval=true;
  elif $test "$mistrustnm"
 = compile -o "$mistrustnm" = run; then
   echo "$extern_C void *$1$tdc; void *(*(p()))$tdc { return &$1; } int main(int argc, char **argv) { if(p() && p() !=
(void *)argv[0]) return(0); else return(1); }"> try.c;
   $cc -o try $optimize $ccflags $ldflags try.c >/dev/null 2>&1 $libs && tval=true;
   $test "$mistrustnm" = run -a -x try && { $run ./try$_exe >/dev/null 2>&1 || tval=false; };
   $rm_try;
  fi;
 else
  echo "$extern_C void *$1$tdc; void *(*(p()))$tdc { return &$1; } int main(int argc, char **argv) { if(p() && p() !=
(void *)argv[0]) return(0); else return(1); }"> try.c;
  $cc -o try $optimize $ccflags $ldflags try.c $libs >/dev/null 2>&1 && tval=true;
  $rm_try;
 fi;
 ;;
*)
 case "$tval" in
 $define) tval=true;;
 *) tval=false;;
 esac;
 ;;
esac;
eval "$2=$tval"'
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/Csym.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sitescript.U,v $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sitescript.U,v $
?RCS:
?MAKE:sitescript sitescriptexp installsitescript : Getfile Oldconfig test \
 Setprefixvar sitebin siteprefix
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitescript=''
?S:sitescript:
?S: This variable holds the name of the directory in which the user wants
?S: to put add-on publicly executable files for the package in question.  It
?S: is most often a local directory such as /usr/local/bin. Programs using
?S: this variable must be prepared to deal with ~name substitution.
?S: The standard
 distribution will put nothing in this directory.
?S: After perl has been installed, users may install their own local
?S: scripts in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitescriptexp=''
?S:sitescriptexp:
?S: This is the same as the sitescript variable, but is filename expanded at
?S: configuration time, for use in your makefiles.
?S:.
?D:installsitescript=''
?S:installsitescript:
?S: This variable is usually the same as sitescriptexp, unless you are on
?S: a system running AFS, in which case they may differ slightly. You
?S: should always use this variable within your makefiles for portability.
?S:.
?LINT:change prefixvar
?LINT:set installsitescript
?LINT:set sitescript
?LINT:set sitescriptexp
: determine where add-on public executable scripts go
case "$sitescript" in
'') dflt=$siteprefix/script
 $test -d $dflt || dflt=$sitebin ;;
*)  dflt="$sitescript" ;;
esac
fn=d~+
rp='Pathname where add-on public executable scripts
```

```
 should be installed?'
. ./getfile
prefixvar=sitescript
. ./setprefixvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/sitescript.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sfio.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sfio.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:48:27  ram
?RCS: patch61: created
?RCS:
?MAKE:i_sfio: Inhdr Setvar
?MAKE: -pick add $@ %<
?S:i_sfio:
?S: This variable conditionally defines the I_SFIO symbol,
?S: and indicates whether a C program should include <sfio.h>.
?S:.
?C:I_SFIO:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sfio.h>.
?C:.
?H:#$i_sfio I_SFIO  /**/
?H:.
?LINT:set
 i_sfio
: see if sfio.h is available
set sfio.h i_sfio
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sfio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2014-2014, Karl Williamson & H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_wcscmp: Compile cat rm_try run Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_wcscmp:
?S: This variable conditionally defines the HAS_WCSCMP symbol if the
?S: wcscmp() routine is available and can be used to compare wide
?S: character strings.
?S:.
?C:HAS_WCSCMP:
?C: This symbol, if defined, indicates that the wcscmp routine is
?C: available to compare two wide character strings.
?C:.
?H:#$d_wcscmp HAS_WCSCMP /**/
?H:.
?F:!try
?LINT: set d_wcscmp
: look for wcscmp
echo " "
$cat >try.c <<'EOCP'
#include <stdio.h>
#include
 <wchar.h>
int main ()
{
   wchar_t *s = L" ";
   return (wcscmp (s, s) ? 1 : 0);
   }
EOCP
set try
?X: if $cc $ccflags $ldflags -o try try.c $libs >/dev/null 2>&1 ; then
val="$undef"
if eval $compile; then
   `$run ./try`
   case "$?" in
 0)  echo "A working wcscmp() found." >&4
     val="$define" ;;
 *)  echo "wcscmp() found, but it doesn't work" >&4
     ;;
 esac
else
   echo "wcscmp() NOT found." >&4
```

```
   fi
set d_wcscmp
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_wcscmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: nis.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:17:38  ram
?RCS: patch61: ensure suitable defaults for hostcat and friends
?RCS:
?RCS: Revision 3.0.1.2  1995/03/21  08:48:34  ram
?RCS: patch52: continued fix for NeXT NIS/NetInfo handling
?RCS:
?RCS: Revision 3.0.1.1  1995/02/15  14:16:23  ram
?RCS: patch51: now correctly handles NeXT using NIS rather than NetInfo
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:passcat groupcat hostcat:
 Myread Oldconfig test contains
?MAKE: -pick add $@ %<
?S:passcat:
?S: This variable contains a command that produces the text of the
?S: /etc/passwd file.  This is normally "cat /etc/passwd", but can be
?S: "ypcat passwd" when NIS is used.
?S:.
?S:groupcat:
?S: This variable contains a command that produces the text of the
?S: /etc/group file.  This is normally "cat /etc/group", but can be
?S: "ypcat group" when NIS is used.
?S:.
?S:hostcat:
?S: This variable contains a command that produces the text of the
```

```
?S: /etc/hosts file.  This is normally "cat /etc/hosts", but can be
?S: "ypcat hosts" when NIS is used.
?S:.
: see if we have to deal with yellow pages, now NIS.
?X: NeXT gives us some fun here, as always, by having both NIS (former YP)
?X: and NetInfo. But since it has both, it's ok to put the test inside the if.
?X: Contributed by Thomas Neumann <tom@smart.bo.open.de>.
if $test -d /usr/etc/yp || $test -d /etc/yp || $test -d /usr/lib/yp; then
 if $test -f /usr/etc/nibindd; then
  echo
 " "
  echo "I'm fairly confident you're on a NeXT."
@if passcat || groupcat
  echo " "
  rp='Do you get the passwd file via NetInfo?'
  dflt=y
  case "$passcat" in
  nidump*) ;;
  ") ;;
  *) dflt=n;;
  esac
  . ./myread
  case "$ans" in
  y*) passcat='nidump passwd .'
@if groupcat
   echo "(Assuming /etc/group is also distributed.)"
   groupcat='nidump group .'
@end
   ;;
  *) echo "You told me, so don't blame me."
   case "$passcat" in
   nidump*) passcat="
@if groupcat
     groupcat=";;
@end
   esac
@if groupcat
   echo "(Assuming /etc/group is handled the same way.)"
@end
   ;;
  esac
@end
@if hostcat
  echo " "
  rp='Do you get the hosts file via NetInfo?'
  dflt=y
  case "$hostcat" in
  nidump*) ;;
```

```
  ") ;;
  *) dflt=n;;
  esac
  . ./myread
  case "$ans" in
  y*) hostcat='nidump hosts .';;
  *) case "$hostcat" in
   nidump*) hostcat="";;
   esac
   ;;
  esac
@end
 fi
@if passcat || groupcat
 case "$passcat" in
 nidump*) ;;
 *)
  case "$passcat" in
  *ypcat*) dflt=y;;
  ")
 if $contains '^\+' /etc/passwd >/dev/null 2>&1; then
    dflt=y
   else
    dflt=n
   fi;;
  *) dflt=n;;
  esac
  echo " "
  rp='Are you getting the passwd file via yellow pages?'
  . ./myread
  case "$ans" in
  y*) passcat='ypcat passwd'
@if groupcat
   echo "(Assuming /etc/group is also distributed.)"
   groupcat='ypcat group'
@end
   ;;
  *) passcat='cat /etc/passwd'
@if groupcat
   echo "(Assuming /etc/group is also local.)"
   groupcat='cat /etc/group'
@end
   ;;
  esac
  ;;
 esac
@end
@if hostcat
```

```
 case "$hostcat" in
 nidump*) ;;
 *)
  case "$hostcat" in
  *ypcat*) dflt=y;;
  ") if $contains '^\+' /etc/passwd >/dev/null 2>&1; then
    dflt=y
   else
    dflt=n
   fi;;
  *) dflt=n;;
  esac
  echo " "
  rp='Are you getting the hosts file via yellow pages?'
  . ./myread
  case "$ans" in
  y*) hostcat='ypcat hosts';;
  *) hostcat='cat /etc/hosts';;
  esac
  ;;
 esac
@end
fi
?X: Ensure suitable default -- Manoj Srivastava
case "$hostcat" in
") hostcat=':'
 $test -f /etc/hosts && hostcat='cat
 /etc/hosts';;
esac
case "$groupcat" in
") groupcat=':'
 $test -f /etc/group && groupcat='cat /etc/group';;
esac
case "$passcat" in
") passcat=':'
 $test -f /etc/passwd && passcat='cat /etc/passwd';;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/nis.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: randfunc.U,v 3.0 1993/08/18 12:09:39 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: randfunc.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This is the new unit that should be used when random
?X: functions are to be used. It thus makes randbits.U obsolete.
?X:
?X: This unit gives a simple #define for Drand01, which produces
?X: doubles in the range [0,1) using the "best" random number
?X: generator available.  The source should just call Drand01
?X: and not worry about the underlying
 implementation.
?X:     Andy Dougherty  July 1998
?X:
?MAKE:randfunc drand01 seedfunc randbits randseedtype: \
 Compile Myread Csym ccflags
?MAKE: -pick add $@ %<
?S:randfunc:
?S: Indicates the name of the random number function to use.
?S: Values include drand48, random, and rand. In C programs,
?S: the 'Drand01' macro is defined to generate uniformly distributed
?S: random numbers over the range [0., 1.[ (see drand01 and nrand).
?S:.
?S:drand01:
?S: Indicates the macro to be used to generate normalized
?S: random numbers.  Uses randfunc, often divided by
?S: (double) (((unsigned long) 1 << randbits)) in order to
?S: normalize the result.
?S: In C programs, the macro 'Drand01' is mapped to drand01.
?S:.
?S:randseedtype:
?S: Indicates the type of the argument of the seedfunc.
?S:.
?S:seedfunc:
?S: Indicates the random number generating seed function.
?S: Values include srand48, srandom, and srand.
?S:.
?S:randbits:
?S: Indicates how many bits are produced by the function used to
?S: generate
 normalized random numbers.
?S:.
```

```
?C:RANDFUNC:
?C: This symbol defines the random function used to define Drand01().
?C:.
?C:Drand01:
?C: This macro is to be used to generate uniformly distributed
?C: random numbers over the range [0., 1.[.  You may have to supply
?C: an 'extern double drand48();' in your program since SunOS 4.1.3
?C: doesn't provide you with anything relevant in its headers.
?C: See HAS_DRAND48_PROTO.
?C:.
?C:Rand_seed_t:
?C: This symbol defines the type of the argument of the
?C: random seed function.
?C:.
?C:seedDrand01:
?C: This symbol defines the macro to be used in seeding the
?C: random number generator (see Drand01).
?C:.
?C:RANDBITS:
?C: This symbol indicates how many bits are produced by the
?C: function used to generate normalized random numbers.
?C: Values include 15, 16, 31, and 48.
?C:.
?H:#define RANDFUNC  $randfunc  /**/
?H:#define Drand01()  $drand01  /**/
?H:#define Rand_seed_t  $randseedtype  /**/
?H:#define seedDrand01(x) $seedfunc((Rand_seed_t)x) /**/
?H:#define
 RANDBITS  $randbits  /**/
?H:.
?LINT:change ccflags
?LINT:unclosed $randbits))"
: How can we generate normalized random numbers ?
echo " "
echo "Using our internal random number implementation..." >&4

case "$ccflags" in
*-Dmy_rand=*|*-Dmy_srand=*)
 echo "Removing obsolete -Dmy_rand, -Dmy_srand, and -Drandbits from ccflags." >&4
 ccflags="`echo $ccflags | sed -e 's/-Dmy_rand=random/ /'`"
 ccflags="`echo $ccflags | sed -e 's/-Dmy_srand=srandom/ /'`"
 ccflags="`echo $ccflags | sed -e 's/-Drandbits=[0-9][0-9]*/ /'`"
 ;;
esac

randfunc=Perl_drand48
drand01="Perl_drand48()"
seedfunc="Perl_drand48_init"
```

```
randbits=48
randseedtype=U32
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/randfunc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_memrchr: Inlibc Hasproto d_gnulibc
?MAKE: -pick add $@ %<
?S:d_memrchr:
?S: This variable conditionally defines the HAS_MEMRCHR symbol, which
?S: indicates to the C program that the memrchr() routine is available
?S: to return a pointer to the last occurrence of a byte in a memory
?S: area (or NULL if not found).
?S:.
?C:HAS_MEMRCHR:
?C: This symbol, if defined, indicates that the memrchr routine is
?C: available to return a pointer to the last occurrence of a byte in
?C: a memory area (or NULL if not found).
?C:.
?H:#$d_memrchr HAS_MEMRCHR  /**/
?H:.
?T:d_memrchr_proto xx1 xx2 xx3 xx4
?LINT:set d_memrchr
: see if memrchr exists
: We need both a prototype in string.h and the symbol in libc.
echo " "
d_memrchr_proto="
xx1="#$d_gnulibc HAS_GNULIBC"
xx2='#if defined(HAS_GNULIBC)
 && !defined(_GNU_SOURCE)'
xx3='#   define _GNU_SOURCE'
xx4='#endif'
set d_memrchr_proto memrchr literal "$xx1" literal "$xx2" literal "$xx3" literal "$xx4" define string.h
eval $hasproto
case "$d_memrchr_proto" in
   define) # see if memrchr exists
 set memrchr d_memrchr
 eval $inlibc
 ;;
   *)  val=$undef
 set d_memrchr
 eval $setvar
 ;;
```

```
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_memrchr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strcspn.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strcspn.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:33  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strcspn: Inlibc
?MAKE: -pick add $@ %<
?S:d_strcspn:
?S: This variable conditionally defines the HAS_STRCSPN symbol, which
?S: indicates to the C program that the strcspn() routine is available
?S: to scan strings.
?S:.
?C:HAS_STRCSPN (STRCSPN):
?C: This symbol, if defined, indicates that the strcspn routine is
?C: available to scan
 strings.
?C:.
?H:#$d_strcspn HAS_STRCSPN  /**/
?H:.
?LINT:set d_strcspn
: see if strcspn exists
set strcspn d_strcspn
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strcspn.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sighold.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sighold.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:21  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sighold: Inlibc
?MAKE: -pick add $@ %<
?S:d_sighold:
?S: This variable conditionally defines HAS_SIGHOLD if sighold() is
?S: available to hold signals.
?S:.
?C:HAS_SIGHOLD:
?C: This symbol, if defined, indicates that the sighold routine is
?C: available to hold signals.
?C:.
?H:#$d_sighold HAS_SIGHOLD /**/
?H:.
?LINT:set d_sighold
:
 see if sighold exists
set sighold d_sighold
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sighold.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Extractall.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extractall.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:00:43  ram
?RCS: patch61: created
?RCS:
```

```
?X:
?X: If extraction has been requested, load the configuration file, perform
?X: the extraction and exit.
?X:
?X: This unit was originally a part of Options.U. It had to be removed from
?X: it to prevent a dependency cycle: Extract -> src -> Options -> Extract
?X: The Begin.U unit now requires us before beginning to do anything
?X: interesting, to ensure
 proper semantics. -- RAM, 15/03/96
?X:
?MAKE:Extractall: Extract Options
?MAKE: -pick wipe $@ %<
: extract files and exit if asked to do so
case "$extractsh" in
true)
?X: Undo the forced silent=true when -S was supplied, by probing realsilent
?X: which was set iff -s was also given. See Options.U for details.
 case "$realsilent" in
 true) ;;
 *) exec 1>&4;;
 esac
 case "$config_sh" in
 ") config_sh='config.sh';;
 esac
 echo " "
 echo "Fetching answers from $config_sh..."
 cd ..
 . $config_sh
?X: extract has to be run from the top directory, not within UU.
 . UU/optdef.sh
 echo " "
?X: extract has to be run from the top directory, not within UU.
 . UU/extract
 rm -rf UU
 echo "Extraction done."
 exit 0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Extractall.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X: This unit generates a $hasfield string that is used internally
?X: by Configure to check if this system has a field for a
?X: particular struct (of if this system has a particular struct!)
?X:
?X: To use it, say something like:
?X:  set d_statblocks stat st_blocks i_sysstat sys/stat.h
?X:  eval $hasfield
?X: Or, for more complicated sets of headers, do something like
?X: hdrs="$define sys/foo.h
?X:  $i_sysbar sys/bar.h
?X:  $i_syszot sys/zot.h
?X:  $i_zappa zappa.h"
?X: set d_statblocks stat st_blocks $hdrs
?X: eval $hasfield
?X:
?MAKE:Hasfield: Setvar rm_try test Compile
?MAKE: -pick add $@ %<
?T:varname struct field
?V:hasfield
: Define hasfield macro for Configure internal use
hasfield='varname=$1;
 struct=$2; field=$3; shift; shift; shift;
while $test $# -ge 2; do
 case "$1" in
 $define) echo "#include <$2>";;
 esac ;
   shift 2;
done > try.c;
echo "int main () { struct $struct foo; char* bar; bar = (char*)foo.$field; }" >> try.c;
set try;
if eval $compile; then
 val="$define";
else
 val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try'
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/Hasfield.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: i_netdb.U,v $

```
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_netdb: Inhdr
?MAKE: -pick add $@ %<
?S:i_netdb:
?S: This variable conditionally defines the I_NETDB symbol, and indicates
?S: whether a C program should include <netdb.h>.
?S:.
?C:I_NETDB:
?C: This symbol, if defined, indicates that <netdb.h> exists and
?C: should be included.
?C:.
?H:#$i_netdb I_NETDB  /**/
?H:.
?LINT:set i_netdb
: see if this is a netdb.h system
set netdb.h i_netdb
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_netdb.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: man3dir.U,v 3.1 1999/07/08 20:52:19 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1996-1999, Andy Dougherty
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: man3dir.U,v $
?RCS: Revision 3.1  1999/07/08 20:52:19  doughera
?RCS: Updated for perl5.005_5x
?RCS:
?RCS: Revision 3.0.1.1  1997/02/28  16:10:34  ram
?RCS: patch61: created
?RCS:
?X: This was originally specific to perl5.  Since perl5 has man pages that
?X: go in both man1/ and man3/ directories, we need both man1dir
```

```
?X: and man3dir.  This unit is basically dist's mansrc.U with
?X: man3 used instead
 of man everywhere.
?X: I then added various tests because perl5 has *lots* of man3
?X: pages with long file names. -- ADO
?X:
?MAKE:man3dir man3direxp man3ext installman3dir: cat nroff Loc Oldconfig \
 sed man1dir spackage package Getfile Setprefixvar Prefixit Prefixup \
 d_flexfnam privlib Myread test
?MAKE: -pick add $@ %<
?Y:TOP
?D:man3dir=''
?S:man3dir:
?S: This variable contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?D:man3direxp=''
?S:man3direxp:
?S: This variable is the same as the man3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installman3dir=''
?S:installman3dir:
?S: This variable is really the same as man3direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man3direxp only
 points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:man3ext:
?S: This variable contains the extension that the manual page should
?S: have: one of 'n', 'l', or '3'.  The Makefile must supply the '.'.
?S: See man3dir.
?S:.
?T:prog tdflt
?LINT:change prefixvar
?LINT:set man3direxp
: determine where library module manual pages go
set man3dir man3dir none
eval $prefixit
$cat <<EOM

$spackage has manual pages for many of the library modules.
EOM

case "$nroff" in
```

```
nroff)
 $cat <<'EOM'
However, you don't have nroff, so they're probably useless to you.
EOM
 case "$man3dir" in
 ") man3dir="none";;
 esac;;
esac

case "$d_flexfnam" in
undef)
 $cat <<'EOM'
However, your system can't handle the long file names like File::Basename.3.
EOM
 case "$man3dir" in
 ") man3dir="none";;
 esac;;
esac

echo "If you don't want the manual sources installed, answer 'none'."
?X: In 5.005_57 and earlier, I had the following notes:
?X:
 We do not use /usr/local/man/man3 because some man programs will
?X: only show the /usr/local/man/man3 contents, and not the system ones,
?X: thus man less will show the perl module less.pm, but not the system
?X: less command.  We might also conflict with Tcl man pages.
?X: However, something like /opt/perl/man/man3 is fine.
?X:
?X: However, opinion seems to be shifting such that 'man POSIX' ought
?X: to just work.  -- Andy Dougherty  July 8, 1999
?X:
?X: remove any trailing -3.0 or other version indication from $package
prog=`echo $package | $sed 's/-*[0-9.]*$//'`
case "$man3dir" in
") dflt=`echo "$man1dir" | $sed -e 's/man1/man3/g' -e 's/man\.1/man\.3/g'`
 if $test -d "$privlib/man/man3"; then
  cat <<EOM >&4

WARNING:  Previous versions of perl installed man3 pages into
$privlib/man/man3.  This version will suggest a
new default of $dflt.
EOM
  tdflt=$dflt
  dflt='n'
  rp='Do you wish to preserve the old behavior?(y/n)'
  . ./myread
  case "$ans" in
  y*) dflt="$privlib/man/man3"
```

```
 ;;
  *)  dflt=$tdflt ;;
  esac
   fi
 ;;
*) dflt="$man3dir" ;;
esac
case "$dflt" in
' ') dflt=none ;;
esac
echo " "
fn=dn+~
rp="Where do the $package library man pages (source) go?"
. ./getfile
prefixvar=man3dir
. ./setprefixvar

case "$man3dir" in
") man3dir=' '
 installman3dir=";;
esac

: What suffix to use on installed man pages
case "$man3dir" in
' ')
 man3ext='0'
 ;;
*)
 rp="What suffix should be used for the $package library man pages?"
 case "$man3ext" in
 ") case "$man3dir" in
  *3)  dflt=3 ;;
  *3p) dflt=3p ;;
  *3pm) dflt=3pm ;;
  *l) dflt=l;;
  *n) dflt=n;;
  *o) dflt=o;;
  *p) dflt=p;;
  *C) dflt=C;;
  *L) dflt=L;;
  *L3) dflt=L3;;
  *) dflt=3;;
  esac
  ;;
 *) dflt="$man3ext";;
 esac
 . ./myread
 man3ext="$ans"
```

```
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/man3dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: perlxv.U,v 1.1 2000/08/31 17:53:56 jhi Exp jhi $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:ivtype uvtype nvtype ivsize uvsize nvsize \
    i8type u8type i16type u16type i32type u32type i64type u64type \
    i8size u8size i16size u16size i32size u32size i64size u64size \
    d_nv_preserves_uv nv_preserves_uv_bits nv_overflows_integers_at \
    d_nv_zero_is_allbits_zero: \
 echo rm_try use64bitint d_quad quadtype uquadtype usequadmath \
 d_longdbl uselongdouble longdblsize doublesize i_quadmath \
 shortsize intsize longsize i_stdlib libs gccversion \
 cat Compile i_inttypes test signal_t run
?MAKE: -pick add $@ %<
?S:ivtype:
?S: This variable contains the C type used for Perl's IV.
?S:.
?S:uvtype:
?S: This variable contains the C type
 used for Perl's UV.
?S:.
?S:nvtype:
?S: This variable contains the C type used for Perl's NV.
?S:.
?S:i8type:
?S: This variable contains the C type used for Perl's I8.
?S:.
?S:u8type:
?S: This variable contains the C type used for Perl's U8.
?S:.
?S:i16type:
?S: This variable contains the C type used for Perl's I16.
?S:.
?S:u16type:
?S: This variable contains the C type used for Perl's U16.
?S:.
?S:i32type:
```

?S: This variable contains the C type used for Perl's I32.
?S:.
?S:u32type:
?S: This variable contains the C type used for Perl's U32.
?S:.
?S:i64type:
?S: This variable contains the C type used for Perl's I64.
?S:.
?S:u64type:
?S: This variable contains the C type used for Perl's U64.
?S:.
?S:ivsize:
?S: This variable is the size of an IV in bytes.
?S:.
?S:uvsize:
?S: This variable is the size of a UV in bytes.
?S:.
?S:i8size:
?S: This variable is the size of an I8 in bytes.
?S:.
?S:u8size:
?S: This variable is the size of an U8 in bytes.
?S:.
?S:i16size:
?S: This variable is the
 size of an I16 in bytes.
?S:.
?S:u16size:
?S: This variable is the size of an U16 in bytes.
?S:.
?S:i32size:
?S: This variable is the size of an I32 in bytes.
?S:.
?S:u32size:
?S: This variable is the size of an U32 in bytes.
?S:.
?S:i64size:
?S: This variable is the size of an I64 in bytes.
?S:.
?S:u64size:
?S: This variable is the size of an U64 in bytes.
?S:.
?S:nvsize:
?S: This variable is the size of a Perl NV in bytes.
?S: Note that some floating point formats have unused bytes.
?S:.
?S:d_nv_preserves_uv:
?S: This variable indicates whether a variable of type nvtype

```
?S: can preserve all the bits a variable of type uvtype.
?S:.
?S:nv_preserves_uv_bits:
?S: This variable indicates how many of bits type uvtype
?S: a variable nvtype can preserve.
?S:.
?S:nv_overflows_integers_at:
?S: This variable gives the largest integer value that NVs can hold
?S: as a constant floating point expression.
?S: If it could not be determined, it holds the value 0.
?S:.
?S:d_nv_zero_is_allbits_zero:
?S: This
 variable indicates whether a variable of type nvtype
?S: stores 0.0 in memory as all bits zero.
?S:.
?C:IVTYPE:
?C: This symbol defines the C type used for Perl's IV.
?C:.
?C:UVTYPE:
?C: This symbol defines the C type used for Perl's UV.
?C:.
?C:I8TYPE:
?C: This symbol defines the C type used for Perl's I8.
?C:.
?C:U8TYPE:
?C: This symbol defines the C type used for Perl's U8.
?C:.
?C:I16TYPE:
?C: This symbol defines the C type used for Perl's I16.
?C:.
?C:U16TYPE:
?C: This symbol defines the C type used for Perl's U16.
?C:.
?C:I32TYPE:
?C: This symbol defines the C type used for Perl's I32.
?C:.
?C:U32TYPE:
?C: This symbol defines the C type used for Perl's U32.
?C:.
?C:I64TYPE:
?C: This symbol defines the C type used for Perl's I64.
?C:.
?C:U64TYPE:
?C: This symbol defines the C type used for Perl's U64.
?C:.
?C:NVTYPE:
?C: This symbol defines the C type used for Perl's NV.
```

```
?C:.
?C:IVSIZE:
?C: This symbol contains the sizeof(IV).
?C:.
?C:UVSIZE:
?C: This symbol contains the
 sizeof(UV).
?C:.
?C:I8SIZE:
?C: This symbol contains the sizeof(I8).
?C:.
?C:U8SIZE:
?C: This symbol contains the sizeof(U8).
?C:.
?C:I16SIZE:
?C: This symbol contains the sizeof(I16).
?C:.
?C:U16SIZE:
?C: This symbol contains the sizeof(U16).
?C:.
?C:I32SIZE:
?C: This symbol contains the sizeof(I32).
?C:.
?C:U32SIZE:
?C: This symbol contains the sizeof(U32).
?C:.
?C:I64SIZE:
?C: This symbol contains the sizeof(I64).
?C:.
?C:U64SIZE:
?C: This symbol contains the sizeof(U64).
?C:.
?C:NVSIZE:
?C: This symbol contains the sizeof(NV).
?C: Note that some floating point formats have unused bytes.
?C: The most notable example is the x86* 80-bit extended precision
?C: which comes in byte sizes of 12 and 16 (for 32 and 64 bit
?C: platforms, respectively), but which only uses 10 bytes.
?C: Perl compiled with -Duselongdouble on x86* is like this.
?C:.
?C:NV_PRESERVES_UV:
?C: This symbol, if defined, indicates that a variable of type NVTYPE
?C: can preserve all the bits of a variable of type UVTYPE.
?C:.
?C:NV_PRESERVES_UV_BITS:
?C: This
 symbol contains the number of bits a variable of type NVTYPE
?C: can preserve of a variable of type UVTYPE.
```

```
?C:.
?C:NV_OVERFLOWS_INTEGERS_AT:
?C: This symbol gives the largest integer value that NVs can hold. This
?C: value + 1.0 cannot be stored accurately. It is expressed as constant
?C: floating point expression to reduce the chance of decimal/binary
?C: conversion issues. If it can not be determined, the value 0 is given.
?C:.
?C:NV_ZERO_IS_ALLBITS_ZERO:
?C: This symbol, if defined, indicates that a variable of type NVTYPE
?C: stores 0.0 in memory as all bits zero.
?C:.
?H:#define IVTYPE  $ivtype  /**/
?H:#define UVTYPE  $uvtype  /**/
?H:#define I8TYPE  $i8type  /**/
?H:#define U8TYPE  $u8type  /**/
?H:#define I16TYPE  $i16type /**/
?H:#define U16TYPE  $u16type /**/
?H:#define I32TYPE  $i32type /**/
?H:#define U32TYPE  $u32type /**/
?H:?%<:#ifdef HAS_QUAD
?H:?%<:#define I64TYPE  $i64type /**/
?H:?%<:#define U64TYPE  $u64type /**/
?H:?%<:#endif
?H:#define NVTYPE  $nvtype  /**/
?H:#define IVSIZE  $ivsize  /**/
?H:#define UVSIZE  $uvsize  /**/
?H:#define I8SIZE  $i8size  /**/
?H:#define U8SIZE  $u8size  /**/
?H:#define I16SIZE  $i16size /**/
?H:#define U16SIZE  $u16size /**/
?H:#define I32SIZE  $i32size /**/
?H:#define U32SIZE  $u32size /**/
?H:?%<:#ifdef
 HAS_QUAD
?H:?%<:#define I64SIZE  $i64size /**/
?H:?%<:#define U64SIZE  $u64size /**/
?H:?%<:#endif
?H:#define NVSIZE  $nvsize  /**/
?H:#$d_nv_preserves_uv NV_PRESERVES_UV
?H:#define NV_PRESERVES_UV_BITS $nv_preserves_uv_bits
?H:#define NV_OVERFLOWS_INTEGERS_AT ($nv_overflows_integers_at)
?H:#$d_nv_zero_is_allbits_zero NV_ZERO_IS_ALLBITS_ZERO
?H:?%<:#if UVSIZE == 8
?H:?%<:#   ifdef BYTEORDER
?H:?%<:#       if BYTEORDER == 0x1234
?H:?%<:#           undef BYTEORDER
?H:?%<:#           define BYTEORDER 0x12345678
?H:?%<:#       else
```

```
?H:?%<:#          if BYTEORDER == 0x4321
?H:?%<:#              undef BYTEORDER
?H:?%<:#              define BYTEORDER 0x87654321
?H:?%<:#
    endif
?H:?%<:#      endif
?H:?%<:#   endif
?H:?%<:#endif
?H:.
?T:xxx
?T:d
?F:!try
: Check basic sizes
echo " "
$echo "Choosing the C types to be used for Perl's internal types..." >&4

case "$use64bitint:$d_quad:$quadtype" in
define:define:?*)
 ivtype="$quadtype"
 uvtype="$uquadtype"
 ivsize=8
 uvsize=8
 ;;
*) ivtype="long"
 uvtype="unsigned long"
 ivsize=$longsize
 uvsize=$longsize
 ;;
esac

case "$uselongdouble:$d_longdbl" in
define:define)
 nvtype="long double"
 nvsize=$longdblsize
 ;;
*) nvtype=double
 nvsize=$doublesize
 ;;
esac

case "$usequadmath:$i_quadmath" in
define:define)
 nvtype="__float128"
 nvsize=16
 case "$libs" in
 *quadmath*) ;;
 *) $cat <<EOM >&4
```

```
*** You requested the use of the quadmath library, but you
*** do not seem to have the quadmath library installed.
*** Cannot continue, aborting.
EOM
   exit 1
   ;;
 esac
 ;;
define:*) $cat <<EOM >&4

*** You requested the use of the quadmath library, but you
*** do not seem to have the required header, <quadmath.h>.
EOM
  case "$gccversion" in
 [23].*|4.[0-5]*)
  $cat <<EOM >&4
*** Your gcc looks a bit old:
*** $gccversion
EOM
   ;;
 ")
  $cat <<EOM >&4
*** You are not running a gcc.
EOM
   ;;
 esac
 $cat <<EOM >&4
*** For the quadmath library you need at least gcc 4.6.
*** Cannot continue, aborting.
EOM
 exit 1
 ;;
esac

$echo "(IV will be "$ivtype", $ivsize bytes)"
$echo "(UV will be "$uvtype", $uvsize bytes)"
$echo "(NV will be "$nvtype", $nvsize bytes)"

$cat >try.c <<EOCP
#$i_inttypes I_INTTYPES
#ifdef I_INTTYPES
#include <inttypes.h>
#endif
#include <stdio.h>
int main() {
#ifdef INT8
  int8_t i =  INT8_MAX;
 uint8_t u = UINT8_MAX;
```

```
 printf("int8_t\n");
#endif
#ifdef INT16
  int16_t i =  INT16_MAX;
 uint16_t u = UINT16_MAX;
 printf("int16_t\n");
#endif
#ifdef INT32
  int32_t i =  INT32_MAX;
 uint32_t u = UINT32_MAX;
 printf("int32_t\n");
#endif
}
EOCP

i8type="signed char"
u8type="unsigned char"
i8size=1
u8size=1

case "$i16type" in
") case "$shortsize" in
 2) i16type=short
  u16type="unsigned
 short"
  i16size=$shortsize
  u16size=$shortsize
  ;;
 esac
 ;;
esac
case "$i16type" in
") set try -DINT16
 if eval $compile; then
  case "`$run ./try`" in
  int16_t)
   i16type=int16_t
   u16type=uint16_t
   i16size=2
   u16size=2
   ;;
  esac
 fi
 ;;
esac
case "$i16type" in
") if $test $shortsize -ge 2; then
  i16type=short
```

```
  u16type="unsigned short"
  i16size=$shortsize
  u16size=$shortsize
 fi
 ;;
esac

case "$i32type" in
") case "$longsize" in
 4) i32type=long
  u32type="unsigned long"
  i32size=$longsize
  u32size=$longsize
  ;;
 *) case "$intsize" in
  4) i32type=int
   u32type="unsigned int"
   i32size=$intsize
   u32size=$intsize
   ;;
  esac
  ;;
 esac
 ;;
esac
case "$i32type" in
") set try -DINT32
 if eval $compile; then
  case "`$run ./try`" in
  int32_t)
   i32type=int32_t
   u32type=uint32_t
   i32size=4
   u32size=4
   ;;
  esac
 fi
 ;;
esac
case "$i32type" in
") if $test $intsize -ge 4; then
  i32type=int
  u32type="unsigned int"
  i32size=$intsize
  u32size=$intsize
 fi
 ;;
esac
```

```
case
 "$i64type" in
") case "$d_quad:$quadtype" in
 define:?*)
  i64type="$quadtype"
  u64type="$uquadtype"
  i64size=8
  u64size=8
  ;;
 esac
 ;;
esac

$echo "Checking how many bits of your UVs your NVs can preserve..." >&4
$cat <<EOP >try.c
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <sys/types.h>
#include <signal.h>
#ifdef SIGFPE
/* volatile so that the compiler has to store it out to memory */
volatile int bletched = 0;
$signal_t blech(int s) { bletched = 1; }
#endif
int main() {
   $uvtype u = 0;
   $nvtype d;
   int     n = 8 * $uvsize;
   int     i;
#ifdef SIGFPE
   signal(SIGFPE, blech);
#endif

   for (i = 0; i < n; i++) {
     u = u << 1 | ($uvtype)1;
     d = ($nvtype)u;
     if (($uvtype)d != u)
       break;
     if (d <= 0)
 break;
     d = ($nvtype)(u - 1);
     if (($uvtype)d != (u - 1))
       break;
#ifdef SIGFPE
```

```
    if (bletched)
 break;
#endif
   }
   printf("%d\n",
 ((i == n) ? -n : i));
   exit(0);
}
EOP
set try

d_nv_preserves_uv="$undef"
if eval $compile; then
 nv_preserves_uv_bits="`$run ./try`"
fi
case "$nv_preserves_uv_bits" in
\-[1-9]*)
 nv_preserves_uv_bits=`expr 0 - $nv_preserves_uv_bits`
 $echo "Your NVs can preserve all $nv_preserves_uv_bits bits of your UVs."  2>&1
 d_nv_preserves_uv="$define"
 ;;
[1-9]*) $echo "Your NVs can preserve only $nv_preserves_uv_bits bits of your UVs."  2>&1
 d_nv_preserves_uv="$undef" ;;
*) $echo "Can't figure out how many bits your NVs preserve." 2>&1
 nv_preserves_uv_bits="0" ;;
esac
$rm_try

$echo "Checking to find the largest integer value your NVs can hold..." >&4
$cat <<EOP >try.c
#include <stdio.h>

typedef $nvtype NV;

int
main() {
 NV value = 2;
 int count = 1;

 while(count < 256) {
   /* volatile so that the compiler has to store it out to memory */
   volatile NV up = value + 1.0;
   volatile NV negated = -value;
   volatile NV down = negated - 1.0;
   volatile NV got_up = up
 - value;
   int up_good = got_up == 1.0;
   int got_down = down - negated;
```

```
  int down_good = got_down == -1.0;

  if (down_good != up_good) {
    fprintf(stderr,
      "Inconsistency - up %d %f; down %d %f; for 2**%d (%.20f)\n",
      up_good, (double) got_up, down_good, (double) got_down,
      count, (double) value);
    return 1;
  }
  if (!up_good) {
    while (1) {
 if (count > 8) {
  count -= 8;
  fputs("256.0", stdout);
 } else {
  count--;
  fputs("2.0", stdout);
 }
 if (!count) {
  puts("");
  return 0;
 }
 fputs("*", stdout);
    }
  }
  value *= 2;
  ++count;
 }
 fprintf(stderr, "Cannot overflow integer range, even at 2**%d (%.20f)\n",
  count, (double) value);
 return 1;
}
EOP
set try

nv_overflows_integers_at='0'
if eval $compile; then
  xxx="`$run ./try`"
  case "$?" in
 0)
    case "$xxx" in
  2*)  cat >&4 <<EOM
The largest integer your NVs can preserve is equal to $xxx
EOM
      nv_overflows_integers_at="$xxx"
      ;;
  *)  cat
```

```
 >&4 <<EOM
Cannot determine the largest integer value your NVs can hold, unexpected output
'$xxx'
EOM
      ;;
     esac
     ;;
 *)  cat >&4 <<EOM
Cannot determine the largest integer value your NVs can hold
EOM
     ;;
   esac
fi
$rm_try

$echo "Checking whether NV 0.0 is all bits zero in memory..." >&4
$cat <<EOP >try.c
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <string.h>
#include <sys/types.h>
#include <signal.h>
#ifdef SIGFPE
/* volatile so that the compiler has to store it out to memory */
volatile int bletched = 0;
$signal_t blech(int s) { bletched = 1; }
#endif

int checkit($nvtype d, const char *where) {
   void *v = &d;
   unsigned char *p = (unsigned char *)v;
   unsigned char *end = p + sizeof(d);
   int fail = 0;

   while (p < end)
 fail += *p++;

   if (!fail)
 return 0;

   p = (unsigned char *)v;
   printf("No - %s: 0x", where);
   while (p < end)
 printf ("%02X", *p++);
   printf("\n");
```

```
  return 1;
}

int
 main(int argc, char **argv) {
  $nvtype d = 0.0;
  int fail = 0;
  fail += checkit(d, "0.0");

  /* The compiler shouldn't be assuming that bletched is 0  */
  d = bletched;

  fail += checkit(d, "bleched");

#ifdef SIGFPE
  signal(SIGFPE, blech);
#endif

  /* Paranoia - the compiler should have no way of knowing that ANSI says
     that argv[argc] will always be NULL.  Actually, if it did assume this it
     would be buggy, as this is C and main() can be called from elsewhere in
     the program.  */
  d = argv[argc] ? 1 : 0;

  if (d) {
 printf("Odd argv[argc]=%p, d=%g\n", argv[argc], d);
  }

  fail += checkit(d, "ternary");

  memset(&d, sizeof(d), argv[argc] ? 1 : 0);

  if (d != 0.0) {
 printf("No - memset doesn't give 0.0\n");
 /* This might just blow up:  */
 printf("(gives %g)\n", d);
 return 1;
  }

#ifdef SIGFPE
  if (bletched) {
 printf("No - something bleched\n");
 return 1;
  }
#endif
  if (fail) {
    printf("No - %d fail(s)\n",
```

```
 fail);
     return 1;
   }
   printf("Yes\n");
   return 0;
}
EOP
set try

d_nv_zero_is_allbits_zero="$undef"
if eval $compile; then
   xxx="`$run ./try`"
   case "$?" in
 0)
     case "$xxx" in
  Yes)  cat >&4 <<EOM
0.0 is represented as all bits zero in memory
EOM
      d_nv_zero_is_allbits_zero="$define"
      ;;
  *)  cat >&4 <<EOM
0.0 is not represented as all bits zero in memory
EOM
      d_nv_zero_is_allbits_zero="$undef"
      ;;
     esac
     ;;
 *)  cat >&4 <<EOM
0.0 is not represented as all bits zero in memory
EOM
     d_nv_zero_is_allbits_zero="$undef"
     ;;
   esac
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/perlxv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pidcheck.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_pidcheck.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:37:55  ram
?RCS: patch61: replaced .o with $_o all over the place
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_pidcheck: cat rm +cc _o
?MAKE: -pick add $@ %<
?S:d_pidcheck:
?S: This variable conditionally defines the variable PIDCHECK
?S: which indicates that kill(pid, 0) will check for an
 active pid.
?S:.
?C:PIDCHECK:
?C: This symbol, if defined, means that the kill(pid, 0) will
?C: check for an active pid (i.e. the kernel will run all the
?C: necessary pid checks, but no signal is actually sent).
?C:.
?H:#$d_pidcheck PIDCHECK  /**/
?H:.
?F:!try
: check for "kill(pid, 0)"
echo " "
case "$d_pidcheck" in
"$define")
echo "I already know your system supports kill(pid, 0) for pid checks." >&4
 ;;
"$undef")
echo "We both know your system does not support signal #0 for pid checks." >&4
 ;;
*)
 echo "Checking to see if kill(pid, 0) works..." >&4
 $cat >try.c <<'EOCP'
int main()
 {
 int pid, status0, status9;

 if ((pid = fork()) == 0)
  {
  sleep(30);
  exit(1);
  }
 status0 = kill(pid, 0);
```

```
 status9 = kill(pid, 9);
 exit(status0 == status9);
 }
EOCP
 if $cc -o try try.c >/dev/null 2>&1 ; then
  if ./try >/dev/null 2>&1 ; then
   echo "Yes, it does marvels."
   d_pidcheck="$undef"
  else
   d_pidcheck="$define"
   echo "No, it doesn't."
  fi
 else
  echo "(I was unable to compile
 the test program.)"
  echo "Your system does not appear to support kill(pid, 0)."
  d_pidcheck="$undef"
 fi
 $rm -f try.c try$_o try
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_pidcheck.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_log2: Inlibc
?MAKE: -pick add $@ %<
?S:d_log2:
?S: This variable conditionally defines the HAS_LOG2 symbol, which
?S: indicates to the C program that the log2() routine is available
?S: to compute log base two.
?S:.
?C:HAS_LOG2:
?C: This symbol, if defined, indicates that the log2 routine is
?C: available to do the log2 function.
?C:.
?H:#$d_log2 HAS_LOG2  /**/
?H:.
?LINT:set d_log2
: see if log2 exists
set log2 d_log2
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_log2.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: usethreads.U,v $
?RCS:
?RCS: Copyright (c) 1998-2000 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: usethreads.U,v $
?RCS:
?MAKE:usethreads useithreads d_oldpthreads usereentrant: \
 Myread Oldconfig Setvar test cat
?MAKE: -pick add $@ %<
?Y:TOP
?S:usethreads:
?S: This variable conditionally defines the USE_THREADS symbol,
?S: and indicates that Perl should be built to use threads.
?S:.
?S:useithreads:
?S: This variable conditionally defines the USE_ITHREADS symbol,
?S: and indicates that Perl should be built to use the interpreter-based
?S: threading implementation.
?S:.
?X: I'm putting old_pthreads in this unit because it might eventually
?X: be part of an automatic determination to see if we can use threads
?X: at all.
?S:d_oldpthreads:
?S: This variable conditionally
 defines the OLD_PTHREADS_API symbol,
?S: and indicates that Perl should be built to use the old
?S: draft POSIX threads API.  This is only potentially meaningful if
?S: usethreads is set.
?S:.
?S:usereentrant:
?S: This variable conditionally defines the USE_REENTRANT_API symbol,
?S: which indicates that the thread code may try to use the various
?S: _r versions of library functions.  This is only potentially
?S: meaningful if usethreads is set and is very experimental, it is
?S: not even prompted for.
?S:.
?C:USE_ITHREADS:
?C: This symbol, if defined, indicates that Perl should be built to
?C: use the interpreter-based threading implementation.
?C:.
```

```
?C:USE_THREADS:
?C: This symbol, if defined, indicates that Perl should
?C: be built to use threads.  At present, it is a synonym for
?C: and USE_ITHREADS, but eventually the source ought to be
?C: changed to use this to mean _any_ threading implementation.
?C:.
?C:OLD_PTHREADS_API:
?C: This symbol, if defined, indicates that Perl should
?C: be
 built to use the old draft POSIX threads API.
?C:.
?C:USE_REENTRANT_API:
?C: This symbol, if defined, indicates that Perl should
?C: try to use the various _r versions of library functions.
?C: This is extremely experimental.
?C:.
?H:#$useithreads USE_ITHREADS  /**/
?H:#$usethreads  USE_THREADS  /**/
?H:#$d_oldpthreads OLD_PTHREADS_API  /**/
?H:#$usereentrant USE_REENTRANT_API /**/
?H:.
?LINT:set usethreads d_oldpthreads
?INIT:: set usethreads on the Configure command line to enable threads.
?INIT:usereentrant='undef'
?F:!usethreads.cbu
: Do we want threads support and if so, what type
?X: We should really have some explanatory text here, and some
?X: automatic setting of sensible defaults.
case "$usethreads" in
$define|true|[yY]*)     dflt='y';;
*)     # Catch case where user specified ithreads but
     # forgot -Dusethreads (A.D. 4/2002)
     case "$useithreads" in
     *$define*) dflt='y';;
     *)  dflt='n';;
     esac
     ;;
esac
cat <<EOM

Perl can be built to
 offer a form of threading support on some systems
To do so, Configure can be run with -Dusethreads.

Note that Perl built with threading support runs slightly slower
and uses slightly more memory than plain Perl.

If this doesn't make any sense to you, just accept the default '$dflt'.
```

```
EOM
rp='Build a threading Perl?'
. ./myread
case "$ans" in
y|Y)    val="$define" ;;
*)      val="$undef" ;;
esac
set usethreads
eval $setvar

useithreads="$usethreads"

?X: Check out what kind of threads API we have
case "$d_oldpthreads" in
") : Configure tests would be welcome here.  For now, assume undef.
 val="$undef" ;;
*) val="$d_oldpthreads" ;;
esac
set d_oldpthreads
eval $setvar

?X: In general, -lpthread needs to come before -lc but after other
?X: libraries such as -lgdbm and such like. We assume here that -lc
?X: is present in libswanted. If that fails to be true, then this
?X: can be changed to add pthread to the very end of libswanted.

: Look for a hint-file generated 'call-back-unit'.  If the
:
 user has specified that a threading perl is to be built,
: we may need to set or change some other defaults.
if $test -f usethreads.cbu; then
   echo "Your platform has some specific hints regarding threaded builds, using them..."
   . ./usethreads.cbu
else
   case "$usethreads" in
 "$define"|true|[yY]*)
  $cat <<EOM
(Your platform does not have any specific hints for threaded builds.
Assuming POSIX threads, then.)
EOM
 ;;
   esac
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/usethreads.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: inc_version_list.U,v $
?RCS:
?RCS: Copyright (c) 2000 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: inc_version_list.U,v $
?RCS:
?MAKE:inc_version_list inc_version_list_init d_inc_version_list: cat sed \
 Getfile perl5 version api_versionstring rm Myread archname \
 prefix sitelib_stem exe_ext
?MAKE: -pick add $@ %<
?Y:TOP
?S:inc_version_list:
?S: This variable specifies the list of subdirectories in over
?S: which perl.c:incpush() and lib/lib.pm will automatically
?S: search when adding directories to @INC.  The elements in
?S: the list are separated by spaces.  This is only useful
?S: if
 you have a perl library directory tree structured like the
?S: default one.  See INSTALL for how this works.  The versioned
?S: site_perl directory was introduced in 5.005, so that is the
?S: lowest possible value.
?S:
?S: This list includes architecture-dependent directories back to
?S: version $api_versionstring (e.g. 5.5.640) and
?S: architecture-independent directories all the way back to
?S: 5.005.
?S:.
?S:inc_version_list_init:
?S: This variable holds the same list as inc_version_list, but
?S: each item is enclosed in double quotes and separated by commas,
?S: suitable for use in the PERL_INC_VERSION_LIST initialization.
?S:.
?S:d_inc_version_list:
?S: This variable conditionally defines PERL_INC_VERSION_LIST.
?S: It is set to undef when PERL_INC_VERSION_LIST is empty.
?S:.
?C:PERL_INC_VERSION_LIST:
?C: This variable specifies the list of subdirectories in over
?C: which perl.c:incpush() and lib/lib.pm will automatically
?C: search when adding directories to @INC, in a format suitable
```

```
?C: for
 a C initialization string.  See the inc_version_list entry
?C: in Porting/Glossary for more details.
?C:.
?H:#$d_inc_version_list PERL_INC_VERSION_LIST $inc_version_list_init  /**/
?H:.
?T:stem
: Determine list of previous versions to include in @INC
$cat > getverlist <<EOPL
#!$perl5
use strict;
use warnings;
use File::Basename;
my \$api_versionstring = "$api_versionstring";
my \$version = "$version";
my \$stem = "$sitelib_stem";
my \$archname = "$archname";
EOPL
 $cat >> getverlist <<'EOPL'
# The list found is stored twice for each entry: the original name, and
# the binary broken down version into pack "s>s>s>", so sorting is easy
# and unambiguous.  This will work for all versions that have a maximum
# of three digit per group separate by '.'s or '_'s. Names are extended
# with ".0.0" to ensure at least three elements for the pack.
#                                -- H.Merijn Brand (m)'06 23-10-2006

my @inc_version_list;
my @candidates;
# XXX Redo to do opendir/readdir?
if
 (-d $stem) {
   chdir($stem);
   ;@candidates = map {
 [ $_, pack "s>s>s>", split m/[._]/, "$_.0.0" ] } glob("5.*");
   ;@candidates = sort { $a->[1] cmp $b->[1]} @candidates;
}
else {
   ;@candidates = ();
}

my ($pversion, $aversion, $vsn5005) = map {
   pack "s>s>s>", split m/[._]/, "$_.0.0" } $version, $api_versionstring, "5.005";
foreach my $d (@candidates) {
   if ($d->[1] lt $pversion) {
 if ($d->[1] ge $aversion) {
     unshift(@inc_version_list, grep { -d } $d->[0]."/$archname", $d->[0]);
 }
 elsif ($d->[1] ge $vsn5005) {
```

```
    unshift(@inc_version_list, grep { -d } $d->[0]);
 }
   }
   else {
 # Skip newer version.  I.e. don't look in
 # 5.7.0 if we're installing 5.6.1.
   }
}

if (@inc_version_list) {
   print join(' ', @inc_version_list);
}
else {
   # Blank space to preserve value for next Configure run.
   print " ";
}
EOPL
chmod +x getverlist
case "$inc_version_list" in
") if test -x "$perl5$exe_ext"; then
  dflt=`$perl5 getverlist`
 else
  dflt='none'
 fi
 ;;
$undef)
 dflt='none' ;;
?X:     Configure -Dinc_version_list='5.6.0/$archname 5.6.0' ...
*)  eval dflt=\"$inc_version_list\" ;;
esac
case "$dflt" in
"|' ') dflt=none ;;
esac
case "$dflt" in
5.005) dflt=none ;;
esac
$cat <<EOM

In order to ease the process of upgrading, this version of perl
can be configured to use modules built and installed with earlier
versions of perl that were installed under $prefix.  Specify here
the list of earlier versions that this version of perl should check.
If Configure detected no earlier versions of perl installed under
$prefix, then the list will be empty.  Answer 'none' to tell perl
to not search earlier versions.

The default should almost always be sensible, so if you're not sure,
just accept the default.
```

```
EOM

rp='List of earlier versions to include in @INC?'
. ./myread
case "$ans" in
[Nn]one|''|' '|$undef) inc_version_list=' ' ;;
*) inc_version_list="$ans" ;;
esac
case "$inc_version_list" in
''|' ')
 inc_version_list_init='0'
 d_inc_version_list="$undef"
 ;;
*) inc_version_list_init=`echo
 $inc_version_list |
  $sed -e 's/^/"/' -e 's/ /","/g' -e 's/$/",0/'`
 d_inc_version_list="$define"
 ;;
esac
$rm -f getverlist
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/inc_version_list.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sgndchr.U,v 3.0.1.2 1997/02/28 15:44:25 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_sgndchr.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:44:25  ram
?RCS: patch61: added a ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  14:00:24  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:16  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sgndchr: cat rm Compile Setvar run
?MAKE: -pick add $@ %<
```

```
?S:d_sgndchr:
?S: This variable conditionally defines the SIGNEDCHAR
 symbol, which
?S: indicates to the C program that signed characters are available.
?S:.
?C:SIGNEDCHAR:
?C: This symbol, if defined, indicates that characters are a signed type.
?C: If not defined, things declared as signed characters (and that make
?C: use of negative values) should probably be declared as shorts instead.
?C:.
?H:#$d_sgndchr SIGNEDCHAR /**/
?H:.
?F:!try
?LINT:set d_sgndchr
: check for signed chars
echo " "
echo "Checking to see if your C compiler can do signed chars..." >&4
$cat >try.c <<'EOCP'
int main()
{
 char c = 0;

 c--;
 exit(c >= 0);
}
EOCP
set try
if eval $compile && $run ./try; then
if $run ./try; then
 val="$define"
 echo "It certainly can."
else
 val="$undef"
 echo "It can't.  I'll have to make some things type short."
fi
set d_sgndchr
eval $setvar
$rm -f try*
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_sgndchr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_drand48_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_drand48_r drand48_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_stdlib extern_C
?MAKE: -pick add $@ %<
?S:d_drand48_r:
?S: This variable conditionally defines the HAS_DRAND48_R symbol,
?S: which indicates to the C program that the drand48_r()
?S: routine is available.
?S:.
?S:drand48_r_proto:
?S: This variable encodes the prototype of drand48_r.
?S: It is zero if d_drand48_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_drand48_r
?S: is defined.
?S:.
?C:HAS_DRAND48_R:
?C: This symbol, if defined, indicates that the drand48_r routine
?C: is available to drand48 re-entrantly.
?C:.
?C:DRAND48_R_PROTO:
?C: This
 symbol encodes the prototype of drand48_r.
?C: It is zero if d_drand48_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_drand48_r
?C: is defined.
?C:.
?H:#$d_drand48_r HAS_DRAND48_R /**/
?H:#define DRAND48_R_PROTO $drand48_r_proto /**/
?H:.
?T:try hdrs d_drand48_r_proto
: see if drand48_r exists
set drand48_r d_drand48_r
eval $inlibc
case "$d_drand48_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_stdlib stdlib.h"
 case "$d_drand48_r_proto:$usethreads" in
 ":define") d_drand48_r_proto=define
  set d_drand48_r_proto drand48_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_drand48_r_proto" in
 define)
 case "$drand48_r_proto" in
```

```
"|0) try='int drand48_r(struct drand48_data*, double*);'
./protochk "$extern_C $try" $hdrs && drand48_r_proto=I_ST ;;
esac
case "$drand48_r_proto" in
"|0) d_drand48_r=undef
 drand48_r_proto=0
 echo "Disabling drand48_r, cannot determine prototype." >&4 ;;
* ) case
"$drand48_r_proto" in
 REENTRANT_PROTO*) ;;
 *) drand48_r_proto="REENTRANT_PROTO_$drand48_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "drand48_r has no prototype, not using it." >&4 ;;
 esac
 d_drand48_r=undef
 drand48_r_proto=0
 ;;
esac
;;
*) drand48_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_drand48_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_htonl.U,v $
?RCS: Revision 3.0.1.2  1994/08/29  16:09:25  ram
?RCS: patch32: now properly handles htonl() and friends when macros (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:45:00  ram
?RCS: patch23: now also check for htonl() macro (ADO)
```

```
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:22  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_htonl: Inlibc Setvar i_niin i_sysin cat rm contains \
 cppstdin cppflags cppminus
?MAKE: -pick add $@ %<
?S:d_htonl:
?S: This variable conditionally
 defines HAS_HTONL if htonl() and its
?S: friends are available to do network order byte swapping.
?S:.
?C:HAS_HTONL (HTONL):
?C: This symbol, if defined, indicates that the htonl() routine (and
?C: friends htons() ntohl() ntohs()) are available to do network
?C: order byte swapping.
?C:.
?C:HAS_HTONS (HTONS):
?C: This symbol, if defined, indicates that the htons() routine (and
?C: friends htonl() ntohl() ntohs()) are available to do network
?C: order byte swapping.
?C:.
?C:HAS_NTOHL (NTOHL):
?C: This symbol, if defined, indicates that the ntohl() routine (and
?C: friends htonl() htons() ntohs()) are available to do network
?C: order byte swapping.
?C:.
?C:HAS_NTOHS (NTOHS):
?C: This symbol, if defined, indicates that the ntohs() routine (and
?C: friends htonl() htons() ntohl()) are available to do network
?C: order byte swapping.
?C:.
?H:#$d_htonl HAS_HTONL  /**/
?H:#$d_htonl HAS_HTONS  /**/
?H:#$d_htonl HAS_NTOHL  /**/
?H:#$d_htonl HAS_NTOHS  /**/
?H:.
?F:!htonl.c
?LINT:set d_htonl
:
 see if htonl --and friends-- exists
val="
set htonl val
eval $inlibc

: Maybe they are macros.
case "$val" in
$undef)
```

```
 $cat >htonl.c <<EOM
#include <stdio.h>
#include <sys/types.h>
#$i_niin I_NETINET_IN
#$i_sysin I_SYS_IN
#ifdef I_NETINET_IN
#include <netinet/in.h>
#endif
#ifdef I_SYS_IN
#include <sys/in.h>
#endif
#ifdef htonl
printf("Defined as a macro.");
#endif
EOM
 $cppstdin $cppflags $cppminus < htonl.c >htonl.E 2>/dev/null
 if $contains 'Defined as a macro' htonl.E >/dev/null 2>&1; then
  val="$define"
  echo "But it seems to be defined as a macro." >&4
 fi
 $rm -f htonl.?
 ;;
esac
set d_htonl
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_htonl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_internet.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_internet.U,v $
?RCS: Revision 3.0.1.1  1993/09/13  16:02:04  ram
?RCS: patch10: most mailers support Internet addresses nowadays (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:d_internet: Myread Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_internet:
?S: This variable conditionally defines the INTERNET symbol, which
?S: indicates to the C program that there is a mailer available
 which
?S: supports internet-style addresses (user@site.domain).
?S:.
?C:INTERNET:
?C: This symbol, if defined, indicates that there is a mailer available
?C: which supports internet-style addresses (user@site.domain).
?C:.
?H:#$d_internet INTERNET /**/
?H:.
?LINT:set d_internet
: check for internet mailer
dflt=y
case "$d_internet" in
"$undef") dflt=n;;
esac
cat <<EOM

Most mailers can deliver mail to addresses of the INTERNET persuasion,
such as user@host.edu.  Some older mailers, however, require the complete
path to the destination to be specified in the address.

EOM
rp="Does your mailer understand INTERNET addresses?"
. ./myread
case "$ans" in
y*) val="$define";;
*)  val="$undef";;
esac
set d_internet
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_internet.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Loc_sed.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?X: This is used in perl.c.
?MAKE:full_sed: sed
?MAKE: -pick add $@ %<
?S:full_sed:
?S: This variable contains the full pathname to 'sed', whether or
?S: not the user has specified 'portability'.  This is only used
?S: in the compiled C program, and we assume that all systems which
?S: can share this executable will have the same full pathname to
?S: 'sed.'
?S:.
?X: Yes, I know about the C symbol PORTABLE, but I think sed
?X: is
 unlikely to move, and I'm too lazy to add all the
?X: #ifdef PORTABLE sections to the perl source.
?X:
?C:LOC_SED:
?C: This symbol holds the complete pathname to the sed program.
?C:.
?H:#define LOC_SED  "$full_sed" /**/
?H:.
: Store the full pathname to the sed program for use in the C program
full_sed=$sed
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Loc_sed.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_msgget.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msgget.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_msgget: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_msgget:
?S: This variable conditionally defines the HAS_MSGGET symbol, which
?S: indicates to the C program that the msgget() routine is available.
?S:.
?C:HAS_MSGGET:
?C: This symbol, if defined, indicates that the msgget() routine is
?C: available to get a new message queue.
?C:.
?H:#$d_msgget
 HAS_MSGGET  /**/
?H:.
?LINT:set d_msgget
: see if msgget exists
set msgget d_msgget
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_msgget.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: contains.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 2020, Raphael Manfredi and Karl Williamson
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:compiler_warning: contains grep osname
?MAKE: -pick add $@ %<
?S:compiler_warning:
?S: This variable holds the command to check if the file specified as a
?S: parameter contains a compiler warning
?S:.
: See if a file contains compiler warnings
: See if a file contains compiler warnings
case "$osname" in
 'aix')
 cat >compiler_warning <<EOSS
# Sample for aix ('.5' indicates the column number in the line):
#    "op.h", line 203.5: 1506-159 (E) Bit field
 type specified for op_type
# Since the word 'warning' isn't present, use a fairly rigorous match of what
# warning messages look like
#          "    o       p       .  h   ", line    203      .   5       :   1506     -    159      (  E  )
```

```
$grep -E "^\\"[A-Za-z][A-Za-z0-9_]*\.[ch]\\", line [1-9][0-9]*[.][1-9][0-9]*: [1-9][0-9]*-[1-9][0-9]* \([EW][)] "
"\$1"
EOSS
      compiler_warning=./compiler_warning
      chmod +x $compiler_warning
   ;;
    # Maybe a colon after the 'warning' would be appropriate
 *) compiler_warning="$contains -i warning"
   ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/compiler_warning.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysdir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysdir.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:22:30  ram
?RCS: patch32: fixed typo in I_SYS_DIR symbol name
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:30  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_sysdir: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysdir:
?S: This variable conditionally defines the I_SYS_DIR symbol, and indicates
?S: whether a C program should include <sys/dir.h>.
?S:.
?C:I_SYS_DIR (I_SYSDIR):
?C: This symbol, if
 defined, indicates to the C program that it should
?C: include <sys/dir.h>.
?C:.
?H:#$i_sysdir I_SYS_DIR  /**/
?H:.
?LINT:set i_sysdir
: see if this is an sysdir system
```

```
set sys/dir.h i_sysdir
eval $inhdr

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sysdir.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: privlib.U,v 3.1 1999/07/08 18:32:29 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: privlib.U,v $
?RCS: Revision 3.1  1999/07/08 18:32:29  doughera
?RCS: Updated for perl5.005_5x
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:17:09  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:44:23  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:31:52  ram
?RCS:
 patch32: now uses installation prefix
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:12:34  ram
?RCS: patch10: added support for /local/lib (WED)
?RCS: patch10: prompt phrasing made more explicit (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:privlib privlibexp installprivlib: package cat Getfile Oldconfig \
 Setprefixvar Prefixit version installstyle binexp
?MAKE: -pick add $@ %<
?Y:TOP
?D:privlib=''
?S:privlib:
?S: This variable contains the eventual value of the PRIVLIB symbol,
?S: which is the name of the private library for this package.  It may
```

```
?S: have a ~ on the front. It is up to the makefile to eventually create
?S: this directory while performing installation (with ~ substitution).
?S:.
?D:privlibexp="
?S:privlibexp:
?S: This variable is the ~name expanded version of privlib, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installprivlib="
?S:installprivlib:
?S: This variable
 is really the same as privlibexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?C:PRIVLIB:
?C: This symbol contains the name of the private library for this package.
?C: The library is private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.  The program
?C: should be prepared to do ~ expansion.
?C:.
?C:PRIVLIB_EXP:
?C: This symbol contains the ~name expanded version of PRIVLIB, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#define PRIVLIB "$privlib"  /**/
?H:#define PRIVLIB_EXP "$privlibexp"  /**/
?H:.
?LINT:change prefixvar
?LINT:set installprivlib
?LINT:set privlib
?LINT:set privlibexp
: determine where private library files go
: Usual default is /usr/local/lib/perl5/$version.
: Also allow things like /opt/perl/lib/$version, since
: /opt/perl/lib/perl5... would be redundant.
: The default "style"
 setting is made in installstyle.U
case "$installstyle" in
*lib/perl5*) set dflt privlib lib/$package/$version ;;
*)  set dflt privlib lib/$version ;;
esac
eval $prefixit
$cat <<EOM

There are some auxiliary files for $package that need to be put into a
private library directory that is accessible by everyone.
```

```
EOM
?X: Force dependency on bin.U
fn=$binexp
fn=d~+
rp='Pathname where the private library files will reside?'
. ./getfile
prefixvar=privlib
. ./setprefixvar

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/privlib.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_setnetent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_setnetent_r setnetent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_setnetent_r:
?S: This variable conditionally defines the HAS_SETNETENT_R symbol,
?S: which indicates to the C program that the setnetent_r()
?S: routine is available.
?S:.
?S:setnetent_r_proto:
?S: This variable encodes the prototype of setnetent_r.
?S: It is zero if d_setnetent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setnetent_r
?S: is defined.
?S:.
?C:HAS_SETNETENT_R:
?C: This symbol, if defined, indicates that the setnetent_r routine
?C: is
 available to setnetent re-entrantly.
?C:.
?C:SETNETENT_R_PROTO:
?C: This symbol encodes the prototype of setnetent_r.
?C: It is zero if d_setnetent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setnetent_r
?C: is defined.
?C:.
?H:#$d_setnetent_r HAS_SETNETENT_R /**/
```

```
?H:#define SETNETENT_R_PROTO $setnetent_r_proto /**/
?H:.
?T:try hdrs d_setnetent_r_proto
: see if setnetent_r exists
set setnetent_r d_setnetent_r
eval $inlibc
case "$d_setnetent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_setnetent_r_proto:$usethreads" in
 ":define") d_setnetent_r_proto=define
  set d_setnetent_r_proto setnetent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_setnetent_r_proto" in
 define)
 case "$setnetent_r_proto" in
 "|0) try='int setnetent_r(int, struct netent_data*);'
 ./protochk "$extern_C $try" $hdrs && setnetent_r_proto=I_ID ;;
 esac
 case "$setnetent_r_proto" in
 "|0) try='void setnetent_r(int, struct netent_data*);'
 ./protochk
 "$extern_C $try" $hdrs && setnetent_r_proto=V_ID ;;
 esac
 case "$setnetent_r_proto" in
 "|0) d_setnetent_r=undef
  setnetent_r_proto=0
  echo "Disabling setnetent_r, cannot determine prototype." >&4 ;;
 * ) case "$setnetent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) setnetent_r_proto="REENTRANT_PROTO_$setnetent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "setnetent_r has no prototype, not using it." >&4 ;;
  esac
  d_setnetent_r=undef
  setnetent_r_proto=0
  ;;
 esac
 ;;
*) setnetent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_setnetent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endgrent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_endgrent_r endgrent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_grp extern_C
?MAKE: -pick add $@ %<
?S:d_endgrent_r:
?S: This variable conditionally defines the HAS_ENDGRENT_R symbol,
?S: which indicates to the C program that the endgrent_r()
?S: routine is available.
?S:.
?S:endgrent_r_proto:
?S: This variable encodes the prototype of endgrent_r.
?S: It is zero if d_endgrent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endgrent_r
?S: is defined.
?S:.
?C:HAS_ENDGRENT_R:
?C: This symbol, if defined, indicates that the endgrent_r routine
?C: is available to
 endgrent re-entrantly.
?C:.
?C:ENDGRENT_R_PROTO:
?C: This symbol encodes the prototype of endgrent_r.
?C: It is zero if d_endgrent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endgrent_r
?C: is defined.
?C:.
?H:#$d_endgrent_r HAS_ENDGRENT_R /**/
?H:#define ENDGRENT_R_PROTO $endgrent_r_proto /**/
?H:.
?T:try hdrs d_endgrent_r_proto
: see if endgrent_r exists
set endgrent_r d_endgrent_r
eval $inlibc
case "$d_endgrent_r" in
"$define")
```

```
hdrs="$i_systypes sys/types.h define stdio.h $i_grp grp.h"
case "$d_endgrent_r_proto:$usethreads" in
":define") d_endgrent_r_proto=define
 set d_endgrent_r_proto endgrent_r $hdrs
 eval $hasproto ;;
*) ;;
esac
case "$d_endgrent_r_proto" in
define)
case "$endgrent_r_proto" in
"|0) try='int endgrent_r(FILE**);'
./protochk "$extern_C $try" $hdrs && endgrent_r_proto=I_H ;;
esac
case "$endgrent_r_proto" in
"|0) try='void endgrent_r(FILE**);'
./protochk "$extern_C $try" $hdrs && endgrent_r_proto=V_H ;;
esac
case "$endgrent_r_proto"
in
"|0) d_endgrent_r=undef
 endgrent_r_proto=0
 echo "Disabling endgrent_r, cannot determine prototype." >&4 ;;
* ) case "$endgrent_r_proto" in
 REENTRANT_PROTO*) ;;
 *) endgrent_r_proto="REENTRANT_PROTO_$endgrent_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "endgrent_r has no prototype, not using it." >&4 ;;
 esac
 d_endgrent_r=undef
 endgrent_r_proto=0
 ;;
esac
;;
*) endgrent_r_proto=0
;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_endgrent_r.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: i_regex.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Sidney C. Smith <scsmith@cbda9.apgea.army.mil>
?RCS:
?RCS: $Log: i_regex.U,v $
?RCS: Revision 3.0.1.1  1995/01/30  14:35:45  ram
?RCS: patch49: created
?RCS:
?RCS:
?MAKE:i_regex: Inhdr
?MAKE: -pick add $@ %<
?S:i_regex:
?S: This variable conditionally defines the I_REGEX symbol, which
?S: indicates to the C program that <regex.h> exists and should
?S: be included.
?S:.
?C:I_REGEX:
?C: This symbol, if defined, indicates that <regex.h> exists
 and should
?C: be included.
?C:.
?H:#$i_regex I_REGEX /**/
?H:.
?LINT:set i_regex
: see if regex is available
set regex.h i_regex
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_regex.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setsid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: d_setsid.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:06:49  ram
?RCS: patch16: created
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setsid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setsid:
?S: This variable conditionally defines HAS_SETSID if setsid() is
?S: available to set the process group ID.
?S:.
?C:HAS_SETSID:
?C: This symbol, if defined, indicates that the setsid routine is
?C: available
 to set the process group ID.
?C:.
?H:#$d_setsid HAS_SETSID /**/
?H:.
?LINT:set d_setsid
: see if setsid exists
set setsid d_setsid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setsid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setpwent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_setpwent_r setpwent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_pwd extern_C
?MAKE: -pick add $@ %<
?S:d_setpwent_r:
?S: This variable conditionally defines the HAS_SETPWENT_R symbol,
?S: which indicates to the C program that the setpwent_r()
?S: routine is available.
?S:.
?S:setpwent_r_proto:
```

```
?S: This variable encodes the prototype of setpwent_r.
?S: It is zero if d_setpwent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setpwent_r
?S: is defined.
?S:.
?C:HAS_SETPWENT_R:
?C: This symbol, if defined, indicates that the setpwent_r routine
?C: is available to
 setpwent re-entrantly.
?C:.
?C:SETPWENT_R_PROTO:
?C: This symbol encodes the prototype of setpwent_r.
?C: It is zero if d_setpwent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setpwent_r
?C: is defined.
?C:.
?H:#$d_setpwent_r HAS_SETPWENT_R /**/
?H:#define SETPWENT_R_PROTO $setpwent_r_proto /**/
?H:.
?T:try hdrs d_setpwent_r_proto
: see if setpwent_r exists
set setpwent_r d_setpwent_r
eval $inlibc
case "$d_setpwent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_pwd pwd.h"
 case "$d_setpwent_r_proto:$usethreads" in
 ":define") d_setpwent_r_proto=define
  set d_setpwent_r_proto setpwent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_setpwent_r_proto" in
 define)
 case "$setpwent_r_proto" in
 "|0) try='int setpwent_r(FILE**);'
 ./protochk "$extern_C $try" $hdrs && setpwent_r_proto=I_H ;;
 esac
 case "$setpwent_r_proto" in
 "|0) try='void setpwent_r(FILE**);'
 ./protochk "$extern_C $try" $hdrs && setpwent_r_proto=V_H ;;
 esac
 case "$setpwent_r_proto"
 in
 "|0) d_setpwent_r=undef
  setpwent_r_proto=0
  echo "Disabling setpwent_r, cannot determine prototype." >&4 ;;
 * ) case "$setpwent_r_proto" in
```

```
  REENTRANT_PROTO*) ;;
  *) setpwent_r_proto="REENTRANT_PROTO_$setpwent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "setpwent_r has no prototype, not using it." >&4 ;;
  esac
  d_setpwent_r=undef
  setpwent_r_proto=0
  ;;
 esac
 ;;
*) setpwent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_setpwent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pipe.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_pipe.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:11:44  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_pipe: Inlibc
?MAKE: -pick add $@ %<
?S:d_pipe:
?S: This variable conditionally defines the HAS_PIPE symbol, which
?S: indicates to the C program that the pipe() routine is available
?S: to create an inter-process channel.
?S:.
?C:HAS_PIPE :
?C: This symbol, if defined, indicates
```

```
 that the pipe routine is
?C: available to create an inter-process channel.
?C:.
?H:#$d_pipe HAS_PIPE  /**/
?H:.
?LINT:set d_pipe
: see if pipe exists
set pipe d_pipe
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_pipe.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: cc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cc.U,v $
?RCS: Revision 3.0.1.4  1995/05/12  12:06:47  ram
?RCS: patch54: may now abort Configure when cc does not work
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:20:11  ram
?RCS: patch45: changed gcc checking message to a more explicit one (WED)
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:04:29  ram
?RCS: patch36: detect gcc even when not called as 'gcc' (ADO)
?RCS: patch36: simplified gcc version checking (ADO)
?RCS: patch36: added ?F: line for metalint
 file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:26:06  ram
?RCS: patch23: added support for gcc version (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:30  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:cc: Myread Oldconfig Checkcc test
?MAKE: -pick add $@ %<
?S:cc:
?S: This variable holds the name of a command to execute a C compiler which
```

```
?S: can resolve multiple global references that happen to have the same
?S: name.  Usual values are 'cc' and 'gcc'.
?S: Fervent ANSI compilers may be called 'c89'.  AIX has xlc.
?S:.
?F:!cc.cbu
?D:cc='cc'
: Determine the C compiler to be used
echo " "
case "$cc" in
") dflt=cc;;
*) dflt="$cc";;
esac
rp="Use which C compiler?"
. ./myread
cc="$ans"

: See whether they have no cc but they do have gcc
. ./trygcc
?X: Look for a hint-file generated 'call-back-unit'.  Now that the
?X: user has specified the compiler, we may need to set or change some
?X: other defaults.
if $test -f cc.cbu; then
   . ./cc.cbu
fi
. ./checkcc
```

Found
 in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/cc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysmode.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysmode: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysmode:
?S: This variable conditionally defines the I_SYSMODE symbol,
?S: and indicates whether a C program should include <sys/mode.h>.
?S:.
?C:I_SYSMODE:
?C: This symbol, if defined, indicates that <sys/mode.h> exists and
?C: should be included.
```

```
?C:.
?H:#$i_sysmode I_SYSMODE  /**/
?H:.
?LINT:set i_sysmode
: see if this is a sys/mode.h system
set sys/mode.h i_sysmode
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysmode.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_inetd.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_inetd.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:23  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_inetd: cat test package Myread Setvar
?MAKE: -pick add $@ %<
?S:d_inetd:
?S: This symbol conditionally defines USE_INETD which indicates to the C
?S: program that the initial socket connection will be done via inetd.
?S:.
?C:USE_INETD (INETD):
?C: This symbol if defined indicates to the C program that inetd will be
?C: in charge of the
 initial socket connection. The file descriptors 0 and
?C: 1 have been dup()ed from the original connected socket descriptor and
?C: are ready for send() and recv().
?C:.
?H:#$d_inetd USE_INETD  /**/
?H:.
?LINT:set d_inetd
: ask whether initial socket connection is to be done via inetd
echo " "
dflt=n
case "$d_inetd" in
") if $test -f /etc/inetd.conf; then
```

```
  $cat <<EOM
Your system provides a so called "Internet super-server", the inetd daemon.
Network services like ftp or rlogin are usually handled via ftpd and rlogind
daemons. Without inetd, these daemons must always be running for the service
to be on. On the contrary, inetd listens to specific ports defined in file
/etc/inetd.conf and will run the appropriate daemon upon request. This scheme
avoids eating up the process table and memory with useless daemons.

I can set up things so that internet connections for $package will be done
using inetd, in which case you will have to edit /etc/inetd.conf to add some
specific informations.

EOM
  dflt=y
 else
  $cat
 <<EOM
I do not see any trace of a configuration file for inetd, hence I assume your
system does not support the so called "Internet super-server". This means
$package will need to have a daemon process running on this machine to allow
network connections.

EOM
 fi;;
*) case "$d_inetd" in
 "$define") dflt=y;;
 esac;;
esac
rp='Do you wish to use inetd for network connections?'
. ./myread
val="$undef"
case "$ans" in
y*|Y*) val="$define";;
esac
set d_inetd
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_inetd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
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```

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:siteman3dir siteman3direxp installsiteman3dir: Getfile \
 Setprefixvar prefix siteprefix man3dir sed
?MAKE: -pick add $@ %<
?Y:TOP
?D:siteman3dir=''
?S:siteman3dir:
?S: This variable contains the name of the directory in which site-specific
?S: library man source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S: The standard distribution will put nothing in this directory.
?S: After
 perl has been installed, users may install their own local
?S: man3 pages in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:siteman3direxp=''
?S:siteman3direxp:
?S: This variable is the same as the siteman3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsiteman3dir=''
?S:installsiteman3dir:
?S: This variable is really the same as siteman3direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man3direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installsiteman3dir
?LINT:set siteman3dir
?LINT:set siteman3direxp
: determine where add-on library man pages go
case "$siteman3dir" in
'') dflt=`echo $man3dir | $sed "s#^$prefix#$siteprefix#"` ;;
*) dflt=$siteman3dir ;;
esac
case "$dflt" in
'|' ') dflt=none ;;
esac
fn=dn+~
rp='Pathname
```

```
 where the site-specific library manual pages should be installed?'
. ./getfile
prefixvar=siteman3dir
. ./setprefixvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/siteman3dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_hidnet.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_hidnet.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:20  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_hidnet hiddennet: cat sed myhostname mydomain Myread Oldconfig
?MAKE: -pick add $@ %<
?S:d_hidnet:
?S: This variable conditionally defines the symbol HIDDEN_NET, which
?S: tells the C program that it should pretend it is on a different
?S: host for purposes of advertising a mailing address.
?S:.
?S:hiddennet:
?S: This variable contains
 the value eventually given to the symbol
?S: HIDDEN_NET, if d_hidnet defines it.  If defined, it's the name
?S: of the host which serves as the mail server for a network that
?S: is invisible to the outside world.
?S:.
?C:HIDDEN_NET (HIDDENNET):
?C: This symbol, if defined, contains the host name that you want to
?C: advertise to the outside world.  This name can be different from
?C: your actual host name, as long as the machine you specify knows
?C: how to forward mail to you.
?C:.
?H:#$d_hidnet HIDDEN_NET "$hiddennet" /**/
?H:.
: now get the host name to advertise as our mailing address
case "$hiddennet" in
```

```
") dflt=n;;
*) dflt=y;;
esac
$cat <<EOM

Some sites are on "hidden" networks, in the sense that the network appears
to the outside world as a single machine.  The advertised name of any host
on this hidden network is the name of one machine on the local network which
knows how to forward mail to any other host on the hidden network.

Do you wish to advertise a different hostname
 to the world than the one your
own host ($myhostname$mydomain) has?

EOM
rp='Use "hidden" network?'
. ./myread
case "$ans" in
n*) d_hidnet="$undef" hiddennet="";;
*)
 d_hidnet="$define"
 echo " "
 case "$hiddennet" in
 ") dflt=`echo $mydomain | $sed -e 's/^\.//'`;;
 *) dflt="$hiddennet";;
 esac
 rp='What hostname do you wish to advertise?'
 . ./myread
 hiddennet="$ans"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_hidnet.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getpgrp.U,v $
```

```
?RCS: Revision 3.0.1.1  1997/02/28  15:34:28  ram
?RCS: patch61: new USE_BSD_GETPGRP to detect the getpgrp() flavour
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getpgrp d_bsdgetpgrp: Guess Inlibc Setvar cat rm \
 +cc +ccflags +ldflags +libs i_unistd
?MAKE: -pick add $@ %<
?S:d_getpgrp:
?S: This variable conditionally defines HAS_GETPGRP if getpgrp() is
?S: available to get the current process group.
?S:.
?S:d_bsdgetpgrp:
?S: This
 variable conditionally defines USE_BSD_GETPGRP if
?S: getpgrp needs one arguments whereas USG one needs none.
?S:.
?C:HAS_GETPGRP (GETPGRP):
?C: This symbol, if defined, indicates that the getpgrp routine is
?C: available to get the current process group.
?C:.
?C:USE_BSD_GETPGRP:
?C: This symbol, if defined, indicates that getpgrp needs one
?C: arguments whereas USG one needs none.
?C:.
?H:#$d_getpgrp HAS_GETPGRP  /**/
?H:#$d_bsdgetpgrp USE_BSD_GETPGRP /**/
?H:.
?F:!set !set.c
?T:xxx
?LINT:set d_getpgrp d_bsdgetpgrp
: see if getpgrp exists
set getpgrp d_getpgrp
eval $inlibc

@if USE_BSD_GETPGRP || d_bsdgetpgrp
case "$d_getpgrp" in
"$define")
 echo " "
 echo "Checking to see which flavor of getpgrp is in use..."
 $cat >set.c <<EOP
#$i_unistd I_UNISTD
#include <sys/types.h>
#ifdef I_UNISTD
#  include <unistd.h>
#endif
int main()
```

```
{
 if (getuid() == 0) {
  printf("(I see you are running Configure as super-user...)\n");
  setuid(1);
 }
#ifdef TRY_BSD_PGRP
 if (getpgrp(1) ==
 0)
  exit(0);
#else
 if (getpgrp() > 0)
  exit(0);
#endif
 exit(1);
}
EOP
 if $cc -DTRY_BSD_PGRP $ccflags $ldflags -o set set.c $libs >/dev/null 2>&1
  && ./set
 then
  echo "You have to use getpgrp(pid) instead of getpgrp()." >&4
  val="$define"
 elif $cc $ccflags $ldflags -o set set.c $libs >/dev/null 2>&1 && ./set; then
  echo "You have to use getpgrp() instead of getpgrp(pid)." >&4
  val="$undef"
 else
  echo "I can't seem to compile and run the test program."
  if ./usg; then
   xxx="a USG one, i.e. you use getpgrp()."
  else
   # SVR4 systems can appear rather BSD-ish.
   case "$i_unistd" in
   $undef)
    xxx="a BSD one, i.e. you use getpgrp(pid)."
    val="$define"
    ;;
   $define)
    xxx="probably a USG one, i.e. you use getpgrp()."
    val="$undef"
    ;;
   esac
  fi
  echo "Assuming your getpgrp is $xxx" >&4
 fi
 ;;
*) val="$undef";;
esac
set d_bsdgetpgrp
eval $setvar
```

```
$rm -f set set.c
@end
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getpgrp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getfsstat : Inlibc
?MAKE: -pick add $@ %<
?S:d_getfsstat:
?S: This variable conditionally defines the HAS_GETFSSTAT symbol, which
?S: indicates to the C program that the getfsstat() routine is available.
?S:.
?C:HAS_GETFSSTAT:
?C: This symbol, if defined, indicates that the getfsstat routine is
?C: available to stat filesystems in bulk.
?C:.
?H:#$d_getfsstat HAS_GETFSSTAT  /**/
?H:.
?LINT:set d_getfsstat
: see if getfsstat exists
set getfsstat d_getfsstat
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getfsstat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_syslog.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_syslog.U,v $
```

```
?RCS: Revision 3.0.1.1  1997/02/28  15:46:56  ram
?RCS: patch61: replaced .o with $_o all over the place
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:43  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_syslog: test Csym Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_syslog:
?S: This variable conditionally defines the HAS_SYSLOG symbol, which
?S: indicates to the C program that syslog() exists on this system.
?S:.
?C:HAS_SYSLOG
 (LIBSYSLOG):
?C: This symbol, if defined, indicates that the program can rely on the
?C: system providing syslog().  Otherwise, the syslog code provided by
?C: the package should be used.
?C:.
?H:#$d_syslog HAS_SYSLOG /**/
?H:.
?LINT:set d_syslog
: see if syslog is available
echo " "
if $test `./findhdr syslog.h` && \
 (set syslog val -f d_syslog; eval $csym; $val); then
 echo "syslog() found." >&4
 val="$define"
else
 echo "syslog() not found in your C library." >&4
 val="$undef"
fi
set d_syslog
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_syslog.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: usrinc.U,v 1.1 2000/06/27 00:20:28 jhi Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
?RCS: $Log: usrinc.U,v $
?RCS: Revision 1.1  2000/06/27 00:20:28  jhi
?RCS: Initial revision
?RCS:
?RCS: Revision 3.0.1.3  1997/02/28  16:27:12  ram
?RCS: patch61: don't ask for the include path unless they are on a MIPS
?RCS:
?RCS: Revision 3.0.1.2  1995/05/12  12:24:36  ram
?RCS: patch54: ensure that ./mips always exists (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:18:31  ram
?RCS: patch23: ensure usrinc value is preserved across sessions (WED)
?RCS:
?RCS: Revision
 3.0  1993/08/18  12:09:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:usrinc incpath mips_type: test cat echo n c Getfile Guess \
 Oldconfig eunicefix contains rm sysroot cc
?MAKE: -pick add $@ %<
?S:usrinc:
?S: This variable holds the path of the include files, which is
?S: usually /usr/include. It is mainly used by other Configure units.
?S:.
?S:incpath:
?S: This variable must precede the normal include path to get the
?S: right one, as in "$incpath/usr/include" or "$incpath/usr/lib".
?S: Value can be "" or "/bsd43" on mips.
?S:.
?S:mips_type:
?S: This variable holds the environment type for the mips system.
?S: Possible values are "BSD 4.3" and "System V".
?S:.
?D:usrinc='/usr/include'
?LINT:extern cppflags
?LINT:create mips
?T:xxx_prompt
?F:./mips
: What should the include directory be ?
: Use sysroot if set, so findhdr looks in the right place.
echo " "
$echo $n "Hmm...  $c"
dflt="$sysroot/usr/include"
incpath=''
?X: mips_type is used later, to add -DSYSTYPE_BSD43
 to cppflags if needed.
mips_type=''
```

```
?X:
?X: Cannot put the following in Guess, or we get a circular dependency.
?X:
if $test -f /bin/mips && /bin/mips; then
 echo "Looks like a MIPS system..."
 $cat >usr.c <<'EOCP'
#ifdef SYSTYPE_BSD43
/bsd43
#endif
EOCP
 if $cc $cppflags -E usr.c > usr.out && $contains / usr.out >/dev/null 2>&1; then
  dflt='/bsd43/usr/include'
  incpath='/bsd43'
  mips_type='BSD 4.3'
 else
  mips_type='System V'
 fi
 $rm -f usr.c usr.out
 echo "and you're compiling with the $mips_type compiler and libraries."
 xxx_prompt=y
 echo "exit 0" >mips
else
 echo "Doesn't look like a MIPS system."
 xxx_prompt=n
 echo "exit 1" >mips
fi
chmod +x mips
$eunicefix mips
case "$usrinc" in
") ;;
*) dflt="$usrinc";;
esac
case "$xxx_prompt" in
y) fn=d/
 echo " "
 rp='Where are the include files you want to use?'
 . ./getfile
 usrinc="$ans"
 ;;
*) usrinc="$dflt"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/usrinc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: man1dir.U,v 3.2 1999/07/08 20:57:21 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1996, 1999 Andy Dougherty
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: man1dir.U,v $
?RCS: Revision 3.2  1999/07/08 20:57:21  doughera
?RCS: Used installprefix.
?RCS:
?RCS: Revision 3.1  1999/07/08 20:52:19  doughera
?RCS: Updated for perl5.005_5x
?RCS:
?RCS: Revision 3.0.1.1  1997/02/28  16:10:29  ram
?RCS: patch61: created
?RCS:
?X: This was originally specific to perl5.  Since perl5 has man pages that
?X: go in both man1/ and man3/ directories, we need both man1dir
?X: and
 man3dir.  This unit is basically dist's mansrc.U with
?X: man1 used instead of man everywhere.
?X:
?MAKE:man1dir man1direxp man1ext installman1dir: cat nroff Loc Oldconfig \
 spackage test Getfile Setprefixvar Prefixit Prefixup sysman Myread \
 prefixexp
?MAKE: -pick add $@ %<
?Y:TOP
?D:man1dir=''
?S:man1dir:
?S: This variable contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?D:man1direxp=''
?S:man1direxp:
?S: This variable is the same as the man1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installman1dir=''
?S:installman1dir:
?S: This variable is really the same as man1direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
```

```
?S: man1direxp only points to the read-only access location.
 For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:man1ext:
?S: This variable contains the extension that the manual page should
?S: have: one of 'n', 'l', or '1'.  The Makefile must supply the '.'.
?S: See man1dir.
?S:.
?T:lookpath
?LINT:change prefixvar
?LINT:set man1direxp
: determine where manual pages go
set man1dir man1dir none
eval $prefixit
$cat <<EOM

$spackage has manual pages available in source form.
EOM
case "$nroff" in
nroff)
 echo "However, you don't have nroff, so they're probably useless to you."
 case "$man1dir" in
 ") man1dir="none";;
 esac;;
esac
echo "If you don't want the manual sources installed, answer 'none'."
case "$man1dir" in
' ') dflt=none
 ;;
")
 lookpath="$prefixexp/share/man/man1"
 lookpath="$lookpath $prefixexp/man/man1 $prefixexp/man/l_man/man1"
 lookpath="$lookpath $prefixexp/man/p_man/man1"
 lookpath="$lookpath $prefixexp/man/u_man/man1"
 lookpath="$lookpath $prefixexp/man/man.1"
?X: Experience has shown people
 expect man1dir to be under prefix,
?X: so we now always put it there.  Users who want other behavior
?X: can answer interactively or use a command line option.
?X: Does user have System V-style man paths.
 case "$sysman" in
 */?_man*) dflt=`./loc . $prefixexp/l_man/man1 $lookpath` ;;
 *) dflt=`./loc . $prefixexp/man/man1 $lookpath` ;;
 esac
 set dflt
 eval $prefixup
 ;;
```

```
*)  dflt="$man1dir"
 ;;
esac
echo " "
fn=dn+~
rp="Where do the main $spackage manual pages (source) go?"
. ./getfile
if $test "X$man1direxp" != "X$ansexp"; then
 installman1dir=''
fi
prefixvar=man1dir
. ./setprefixvar

case "$man1dir" in
'') man1dir=' '
 installman1dir='';;
esac

: What suffix to use on installed man pages

case "$man1dir" in
' ')
 man1ext='0'
 ;;
*)
 rp="What suffix should be used for the main $spackage man pages?"
 case "$man1ext" in
 '') case "$man1dir" in
  *1)  dflt=1 ;;
  *1p) dflt=1p ;;
  *1pm) dflt=1pm ;;
  *l) dflt=l;;
  *n) dflt=n;;
  *o) dflt=o;;
  *p) dflt=p;;
  *C) dflt=C;;
  *L) dflt=L;;
  *L1)
 dflt=L1;;
  *) dflt=1;;
  esac
  ;;
 *) dflt="$man1ext";;
 esac
 . ./myread
 man1ext="$ans"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/man1dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_difftime.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_difftime.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:31  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_difftime: Inlibc
?MAKE: -pick add $@ %<
?S:d_difftime:
?S: This variable conditionally defines the HAS_DIFFTIME symbol, which
?S: indicates to the C program that the difftime() routine is available.
?S:.
?C:HAS_DIFFTIME :
?C: This symbol, if defined, indicates that
 the difftime routine is
?C: available.
?C:.
?H:#$d_difftime HAS_DIFFTIME  /**/
?H:.
?LINT:set d_difftime
: see if difftime exists
set difftime d_difftime
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_difftime.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
```

```
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fpos64_t: \
 Inlibc Setvar Compile rm_try cat fpossize
?MAKE: -pick add $@ %<
?S:d_fpos64_t:
?S: This symbol will be defined if the C compiler supports fpos64_t.
?S:.
?C:HAS_FPOS64_T:
?C: This symbol will be defined if the C compiler supports fpos64_t.
?C:.
?H:#$d_fpos64_t HAS_FPOS64_T /**/
?H:.
?LINT:set d_fpos64_t
: check for fpos64_t
echo " "
echo "Checking to see if you have fpos64_t..." >&4
$cat >try.c <<EOCP
#include <stdio.h>
int main() { fpos64_t x = 7; }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have fpos64_t."
else
 val="$undef"
 echo "You do not have fpos64_t."
 case "$fpossize" in
 8) echo "(Your fpos_t is 64 bits, so you could use that.)" ;;
 esac
fi
$rm_try
set
 d_fpos64_t
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fpos64_t.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setlnbuf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_setlnbuf.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:11:57  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_setlinebuf: Inlibc
?MAKE: -pick add $@ %<
?S:d_setlinebuf:
?S: This variable conditionally defines the HAS_SETLINEBUF symbol, which
?S: indicates to the C program that the setlinebuf() routine is available
?S: to change stderr or stdout from block-buffered or unbuffered
 to a
?S: line-buffered mode.
?S:.
?C:HAS_SETLINEBUF :
?C: This symbol, if defined, indicates that the setlinebuf routine is
?C: available to change stderr or stdout from block-buffered or unbuffered
?C: to a line-buffered mode.
?C:.
?H:#$d_setlinebuf HAS_SETLINEBUF  /**/
?H:.
?LINT:set d_setlinebuf
: see if setlinebuf exists
set setlinebuf d_setlinebuf
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setlnbuf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fmod.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_fmod.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:12:46  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_fmod: Inlibc
?MAKE: -pick add $@ %<
?S:d_fmod:
?S: This variable conditionally defines the HAS_FMOD symbol, which
?S: indicates to the C program that the fmod() routine is available.
?S: See also d_drem for the drem() routine which does roughly the same.
?S:.
?C:HAS_FMOD
 :
?C: This symbol, if defined, indicates that the fmod routine is
?C: available to compute the remainder r=x-n*y where n=trunc(x/y).
?C:.
?H:#$d_fmod HAS_FMOD  /**/
?H:.
?LINT:set d_fmod
: see if fmod exists
set fmod d_fmod
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_fmod.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setprior.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setprior.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:11  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setprior: Inlibc
?MAKE: -pick add $@ %<
?S:d_setprior:
?S: This variable conditionally defines HAS_SETPRIORITY if setpriority()
```

```
?S: is available to set a process's priority.
?S:.
?C:HAS_SETPRIORITY (SETPRIORITY):
?C: This symbol, if defined, indicates that the setpriority routine is
?C: available to set a process's priority.
?C:.
?H:#$d_setprior
 HAS_SETPRIORITY  /**/
?H:.
?LINT:set d_setprior
: see if setpriority exists
set setpriority d_setprior
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setprior.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_msghdr_s: Hasstruct i_systypes d_socket i_sysuio Setvar
?MAKE: -pick add $@ %<
?S:d_msghdr_s:
?S: This variable conditionally defines the HAS_STRUCT_MSGHDR symbol,
?S: which indicates that the struct msghdr is supported.
?S:.
?C:HAS_STRUCT_MSGHDR:
?C: This symbol, if defined, indicates that the struct msghdr
?C: is supported.
?C:.
?H:#$d_msghdr_s HAS_STRUCT_MSGHDR /**/
?H:.
?LINT:set d_msghdr_s
: Check for msghdr_s
echo " "
echo "Checking to see if your system supports struct msghdr..." >&4
set d_msghdr_s msghdr $i_systypes sys/types.h $d_socket sys/socket.h $i_sysuio sys/uio.h
eval $hasstruct
case "$d_msghdr_s" in
"$define")      echo "Yes, it does."   ;;
*)              echo "No, it doesn't."
```

```
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_msghdr_s.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_memcpy.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memcpy.U,v $
?RCS: Revision 3.0.1.1  1993/09/13  16:02:58  ram
?RCS: patch10: removed text recommending bcopy over memcpy (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:34  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_memcpy: Inlibc
?MAKE: -pick add $@ %<
?S:d_memcpy:
?S: This variable conditionally defines the HAS_MEMCPY symbol, which
?S: indicates to the C program that the memcpy() routine is available
?S: to copy blocks of
 memory.
?S:.
?C:HAS_MEMCPY (MEMCPY):
?C: This symbol, if defined, indicates that the memcpy routine is available
?C: to copy blocks of memory.
?C:.
?H:#$d_memcpy HAS_MEMCPY /**/
?H:.
?LINT:set d_memcpy
: see if memcpy exists
set memcpy d_memcpy
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_memcpy.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endpwent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_endpwent_r endpwent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_pwd extern_C
?MAKE: -pick add $@ %<
?S:d_endpwent_r:
?S: This variable conditionally defines the HAS_ENDPWENT_R symbol,
?S: which indicates to the C program that the endpwent_r()
?S: routine is available.
?S:.
?S:endpwent_r_proto:
?S: This variable encodes the prototype of endpwent_r.
?S: It is zero if d_endpwent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endpwent_r
?S: is defined.
?S:.
?C:HAS_ENDPWENT_R:
?C: This symbol, if defined, indicates that the endpwent_r routine
?C: is available to
 endpwent re-entrantly.
?C:.
?C:ENDPWENT_R_PROTO:
?C: This symbol encodes the prototype of endpwent_r.
?C: It is zero if d_endpwent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endpwent_r
?C: is defined.
?C:.
?H:#$d_endpwent_r HAS_ENDPWENT_R /**/
?H:#define ENDPWENT_R_PROTO $endpwent_r_proto /**/
?H:.
?T:try hdrs d_endpwent_r_proto
: see if endpwent_r exists
set endpwent_r d_endpwent_r
eval $inlibc
case "$d_endpwent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_pwd pwd.h"
 case "$d_endpwent_r_proto:$usethreads" in
 ":define") d_endpwent_r_proto=define
  set d_endpwent_r_proto endpwent_r $hdrs
```

```
 eval $hasproto ;;
*) ;;
esac
case "$d_endpwent_r_proto" in
define)
case "$endpwent_r_proto" in
"|0) try='int endpwent_r(FILE**);'
./protochk "$extern_C $try" $hdrs && endpwent_r_proto=I_H ;;
esac
case "$endpwent_r_proto" in
"|0) try='void endpwent_r(FILE**);'
./protochk "$extern_C $try" $hdrs && endpwent_r_proto=V_H ;;
esac
case "$endpwent_r_proto"
in
"|0) d_endpwent_r=undef
 endpwent_r_proto=0
 echo "Disabling endpwent_r, cannot determine prototype." >&4 ;;
* ) case "$endpwent_r_proto" in
 REENTRANT_PROTO*) ;;
 *) endpwent_r_proto="REENTRANT_PROTO_$endpwent_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "endpwent_r has no prototype, not using it." >&4 ;;
 esac
 d_endpwent_r=undef
 endpwent_r_proto=0
 ;;
esac
;;
*) endpwent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_endpwent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysutsname.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
?MAKE:i_sysutsname: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysutsname:
?S: This variable conditionally defines the I_SYSUTSNAME symbol,
?S: and indicates whether a C program should include <sys/utsname.h>.
?S:.
?C:I_SYSUTSNAME:
?C: This symbol, if defined, indicates that <sys/utsname.h> exists and
?C: should be included.
?C:.
?H:#$i_sysutsname I_SYSUTSNAME  /**/
?H:.
?LINT:set i_sysutsname
: see if this is a sys/utsname.h system
set sys/utsname.h i_sysutsname
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysutsname.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2005-2007 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_cplusplus: Compile Setvar run cat rm_try
?MAKE: -pick add $@ %<
?S:d_cplusplus (d_cplusplus.U):
?S: This variable conditionally defines the USE_CPLUSPLUS symbol, which
?S: indicates that a C++ compiler was used to compiled Perl and will be
?S: used to compile extensions.
?S:.
?C:USE_CPLUSPLUS:
?C: This symbol, if defined, indicates that a C++ compiler was
?C: used to compiled Perl and will be used to compile extensions.
?C:.
?H:#$d_cplusplus USE_CPLUSPLUS  /**/
?H:.
?F:!try
?LINT:set d_cplusplus
: Check if we are using C++
echo " "
echo "Checking for C++..." >&4
$cat >try.c <<'EOCP'
#include <stdio.h>
```

```
int main(void)
{
#ifdef __cplusplus
   return 0;
#else
   return 1;
#endif
}
EOCP
set try
if eval $compile_ok
 && $run ./try; then
 val="$define"
 echo "You are using a C++ compiler."
else
 val="$undef"
 echo "You are not using a C++ compiler."
fi
$rm_try cplusplus$$
set d_cplusplus
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_cplusplus.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sockopt.U,v 3.0.1.1 1995/07/25 14:16:14 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sockopt.U,v $
?RCS: Revision 3.0.1.1  1995/07/25  14:16:14  ram
?RCS: patch56: obsoleted KEEPALIVE in favor of CAN_KEEPALIVE for consistency
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_keepalive: cat rm contains +cc +ccflags +ldflags socketlib sockethdr \
 d_oldsock libs Oldconfig Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_keepalive:
```

```
?S: This symbol conditionally defines CAN_KEEPALIVE which
 indicates to the C
?S: program that setsockopt SO_KEEPALIVE will work properly.
?S:.
?C:CAN_KEEPALIVE (KEEPALIVE):
?C: This symbol if defined indicates to the C program that the SO_KEEPALIVE
?C: option of setsockopt() will work as advertised in the manual.
?C:.
?H:#$d_keepalive CAN_KEEPALIVE  /**/
?H:.
?F:!socket
?LINT:set d_keepalive
: see if setsockopt with SO_KEEPALIVE works as advertised
echo " "
case "$d_oldsock" in
"$undef")
 if $contains SO_KEEPALIVE `./findhdr sys/socket.h` \
  /dev/null >/dev/null 2>&1
 then
  echo "OK, let's see if SO_KEEPALIVE works as advertised..." >&4
  $cat > socket.c <<EOP
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
#include <netdb.h>

int main()
{
 int s = socket(AF_INET, SOCK_STREAM, 0);
 if (s == -1)
  exit(1);
 if (-1 == setsockopt(s, SOL_SOCKET, SO_KEEPALIVE, 0, 0))
  exit(2);
 exit(0);
}
EOP
  if $cc $ccflags $sockethdr $ldflags -o socket socket.c $libs \
   $socketlib >/dev/null 2>&1; then
   ./socket >/dev/null 2>&1
   case
 $? in
   0) echo "Yes, it does!"
    val="$define";;
   1) $cat <<EOM
(Something went wrong -- Assuming SO_KEEPALIVE is broken)
EOM
    val="$undef";;
   2) echo "No, it doesn't.  Don't trust your manuals!!"
```

```
    val="$undef";;
   esac
  else
   cat <<EOM
(I can't compile the test program -- Assuming SO_KEEPALIVE is broken)
EOM
   val="$undef"
  fi
 else
  echo "Strange!! You have BSD 4.2 sockets but no SO_KEEPALIVE option."
  val="$undef"
 fi;;
*) cat <<EOM
As you have an old socket interface, you can't have heard of SO_KEEPALIVE.
EOM
 val="$undef";;
esac
set d_keepalive
eval $setvar
$rm -f socket socket.c
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/sockopt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_log1p: Inlibc
?MAKE: -pick add $@ %<
?S:d_log1p:
?S: This variable conditionally defines the HAS_LOG1P symbol, which
?S: indicates to the C program that the logp1() routine is available
?S: to compute log(1 + x) for values of x close to zero.
?S:.
?C:HAS_LOG1P:
?C: This symbol, if defined, indicates that the log1p routine is
?C: available to do the logarithm of 1 plus argument function.
?C:.
?H:#$d_log1p HAS_LOG1P  /**/
?H:.
?LINT:set d_log1p
: see if log1p exists
set log1p d_log1p
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_log1p.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_dup2.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_dup2.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_dup2: Inlibc
?MAKE: -pick add $@ %<
?S:d_dup2:
?S: This variable conditionally defines HAS_DUP2 if dup2() is
?S: available to duplicate file descriptors.
?S:.
?C:HAS_DUP2 (DUP2):
?C: This symbol, if defined, indicates that the dup2 routine is
?C: available to duplicate file descriptors.
?C:.
?H:#$d_dup2 HAS_DUP2 /**/
?H:.
?LINT:set d_dup2
:
 see if dup2 exists
set dup2 d_dup2
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_dup2.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_shmat.U,v $
?RCS: Revision 3.0.1.3  1995/07/25  14:04:23  ram
?RCS: patch56: use findhdr to find <sys/shm.h>, to get the right one (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:18:56  ram
?RCS: patch27: added new symbol HAS_SHMAT_PROTOTYPE (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:54:18  ram
?RCS: patch23: new Shmat_t symbol to declare return type of shmat()
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:18  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_shmat shmattype
 d_shmatprototype: Inlibc cat +cc +ccflags \
 rm cppstdin cppflags cppminus Findhdr Setvar contains
?MAKE: -pick add $@ %<
?S:d_shmat:
?S: This variable conditionally defines the HAS_SHMAT symbol, which
?S: indicates to the C program that the shmat() routine is available.
?S:.
?S:shmattype:
?S: This symbol contains the type of pointer returned by shmat().
?S: It can be 'void *' or 'char *'.
?S:.
?S:d_shmatprototype:
?S: This variable conditionally defines the HAS_SHMAT_PROTOTYPE
?S: symbol, which indicates that sys/shm.h has a prototype for
?S: shmat.
?S:.
?C:HAS_SHMAT:
?C: This symbol, if defined, indicates that the shmat() routine is
?C: available to attach a shared memory segment to the process space.
?C:.
?C:Shmat_t:
?C: This symbol holds the return type of the shmat() system call.
?C: Usually set to 'void *' or 'char *'.
?C:.
?C:HAS_SHMAT_PROTOTYPE:
?C: This symbol, if defined, indicates that the sys/shm.h includes
?C: a prototype for shmat().  Otherwise, it is up to the program
 to
?C: guess one.  Shmat_t shmat _((int, Shmat_t, int)) is a good guess,
?C: but not always right so it should be emitted by the program only
?C: when HAS_SHMAT_PROTOTYPE is not defined to avoid conflicting defs.
```

```
?C:.
?H:#$d_shmat HAS_SHMAT  /**/
?H:#define Shmat_t $shmattype /**/
?H:#$d_shmatprototype HAS_SHMAT_PROTOTYPE /**/
?H:.
?LINT:set d_shmat d_shmatprototype
?T:xxx
: see if shmat exists
set shmat d_shmat
eval $inlibc
: see what shmat returns
case "$d_shmat" in
"$define")
 $cat >shmat.c <<'END'
#include <sys/shm.h>
void *shmat();
END
 if $cc $ccflags -c shmat.c >/dev/null 2>&1; then
  shmattype='void *'
 else
  shmattype='char *'
 fi
 echo "and it returns ($shmattype)." >&4
 : see if a prototype for shmat is available
 xxx=`./findhdr sys/shm.h`
 $cppstdin $cppflags $cppminus < $xxx > shmat.c 2>/dev/null
 if $contains 'shmat.*(' shmat.c >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 $rm -f shmat.[co]
 ;;
*)
 val="$undef"
 ;;
esac
set d_shmatprototype
eval $setvar
```

Found
 in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_shmat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sigsetmk.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
```

```
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sigsetmk.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:23  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sigsetmk: Csym Setvar
?MAKE: -pick add $@ %<
?S:d_sigsetmk:
?S: This variable conditionally defines the HAS_SIGSETMASK symbol, which
?S: indicates to the C program that the sigsetmask() routine is available
?S: to set current signal mask.
?S:.
?C:HAS_SIGSETMASK (SIGSETMASK):
?C: This symbol, if defined, indicates that the sigsetmask()
 routine is
?C: available to set current signal mask. Otherwise, you should probably
?C: emulate this by using signal(), but fear race conditions...
?C:.
?H:#$d_sigsetmk HAS_SIGSETMASK  /**/
?H:.
?LINT:set d_sigsetmk
: see if sigsetmask exists
echo " "
if set sigsetmask val -f d_sigsetmk; eval $csym; $val; then
 echo 'sigsetmask() found.' >&4
 val="$define"
else
 echo "sigsetmask() not found -- We'll use signal()." >&4
 val="$undef"
fi
set d_sigsetmk
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sigsetmk.U
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```
?RCS: $Id: i_niin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_niin.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit looks wether <netinet/in.h> is available or not
?X:
?MAKE:i_niin i_sysin: Inhdr
?MAKE: -pick add $@ %<
?S:i_niin:
?S: This variable conditionally defines I_NETINET_IN, which indicates
?S: to the C program that it should include <netinet/in.h>. Otherwise,
?S: you may try <sys/in.h>.
?S:.
?S:i_sysin:
?S: This variable conditionally
 defines I_SYS_IN, which indicates
?S: to the C program that it should include <sys/in.h> instead of
?S: <netinet/in.h>.
?S:.
?C:I_NETINET_IN:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <netinet/in.h>. Otherwise, you may try <sys/in.h>.
?C:.
?C:I_SYS_IN (I_SYSIN):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/in.h> instead of <netinet/in.h>.
?C:.
?H:#$i_niin I_NETINET_IN /**/
?H:#$i_sysin I_SYS_IN  /**/
?H:.
?LINT:set i_niin i_sysin
: see if this is a netinet/in.h or sys/in.h system
set netinet/in.h i_niin sys/in.h i_sysin
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_niin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_pwd.U,v 3.0.1.2 1995/07/25 14:10:57 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: i_pwd.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:10:57  ram
?RCS: patch56: use setvar so hint file values can override our guesses (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:03:27  ram
?RCS: patch23: had forgotten cppminus in cppstdin test (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:25  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit checks whether there is a pwd system or not
?X:
?MAKE:i_pwd d_pwquota d_pwage d_pwchange
 d_pwclass d_pwexpire \
 d_pwgecos d_pwpasswd d_pwcomment: \
 contains rm cppstdin cppflags cppminus Inhdr Findhdr Setvar
?MAKE: -pick add $@ %<
?S:i_pwd:
?S: This variable conditionally defines I_PWD, which indicates
?S: to the C program that it should include <pwd.h>.
?S:.
?S:d_pwquota:
?S: This variable conditionally defines PWQUOTA, which indicates
?S: that struct passwd contains pw_quota.
?S:.
?S:d_pwage:
?S: This variable conditionally defines PWAGE, which indicates
?S: that struct passwd contains pw_age.
?S:.
?S:d_pwchange:
?S: This variable conditionally defines PWCHANGE, which indicates
?S: that struct passwd contains pw_change.
?S:.
?S:d_pwclass:
?S: This variable conditionally defines PWCLASS, which indicates
?S: that struct passwd contains pw_class.
?S:.
```

```
?S:d_pwexpire:
?S: This variable conditionally defines PWEXPIRE, which indicates
?S: that struct passwd contains pw_expire.
?S:.
?S:d_pwcomment:
?S: This variable conditionally defines PWCOMMENT, which indicates
?S: that
 struct passwd contains pw_comment.
?S:.
?S:d_pwgecos:
?S: This variable conditionally defines PWGECOS, which indicates
?S: that struct passwd contains pw_gecos.
?S:.
?S:d_pwpasswd:
?S: This variable conditionally defines PWPASSWD, which indicates
?S: that struct passwd contains pw_passwd.
?S:.
?C:I_PWD:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <pwd.h>.
?C:.
?C:PWQUOTA:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_quota.
?C:.
?C:PWAGE:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_age.
?C:.
?C:PWCHANGE:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_change.
?C:.
?C:PWCLASS:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_class.
?C:.
?C:PWEXPIRE:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_expire.
?C:.
?C:PWCOMMENT:
?C: This
 symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_comment.
?C:.
?C:PWGECOS:
?C: This symbol, if defined, indicates to the C program that struct passwd
```

```
?C: contains pw_gecos.
?C:.
?C:PWPASSWD:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_passwd.
?C:.
?H:#$i_pwd I_PWD  /**/
?H:#$d_pwquota PWQUOTA /**/
?H:#$d_pwage PWAGE /**/
?H:#$d_pwchange PWCHANGE /**/
?H:#$d_pwclass PWCLASS /**/
?H:#$d_pwexpire PWEXPIRE /**/
?H:#$d_pwcomment PWCOMMENT /**/
?H:#$d_pwgecos PWGECOS /**/
?H:#$d_pwpasswd PWPASSWD /**/
?H:.
?LINT: set i_pwd d_pwquota d_pwage d_pwchange d_pwclass d_pwexpire d_pwcomment
?LINT: set d_pwgecos d_pwpasswd
?T:xxx
: see if this is a pwd.h system
set pwd.h i_pwd
eval $inhdr

case "$i_pwd" in
$define)
 xxx=`./findhdr pwd.h`
 $cppstdin $cppflags $cppminus < $xxx >$$.h

 if $contains 'pw_quota' $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_pwquota
 eval $setvar

 if $contains 'pw_age'
 $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_pwage
 eval $setvar

 if $contains 'pw_change' $$.h >/dev/null 2>&1; then
  val="$define"
 else
```

```
 val="$undef"
fi
set d_pwchange
eval $setvar

if $contains 'pw_class' $$.h >/dev/null 2>&1; then
 val="$define"
else
 val="$undef"
fi
set d_pwclass
eval $setvar

if $contains 'pw_expire' $$.h >/dev/null 2>&1; then
 val="$define"
else
 val="$undef"
fi
set d_pwexpire
eval $setvar

if $contains 'pw_comment' $$.h >/dev/null 2>&1; then
 val="$define"
else
 val="$undef"
fi
set d_pwcomment
eval $setvar

if $contains 'pw_gecos' $$.h >/dev/null 2>&1; then
 val="$define"
else
 val="$undef"
fi
set d_pwgecos
eval $setvar

if $contains 'pw_passwd' $$.h >/dev/null 2>&1; then
 val="$define"
else
 val="$undef"
fi
set d_pwpasswd
eval $setvar

$rm -f $$.h
;;
*)
```

```
 val="$undef";
 set d_pwquota; eval $setvar
 set d_pwage; eval $setvar
 set d_pwchange; eval $setvar
 set d_pwclass; eval $setvar
 set
 d_pwexpire; eval $setvar
 set d_pwcomment; eval $setvar
 set d_pwgecos; eval $setvar
 set d_pwpasswd; eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_pwd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_srandom_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_srandom_r srandom_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_stdlib extern_C
?MAKE: -pick add $@ %<
?S:d_srandom_r:
?S: This variable conditionally defines the HAS_SRANDOM_R symbol,
?S: which indicates to the C program that the srandom_r()
?S: routine is available.
?S:.
?S:srandom_r_proto:
?S: This variable encodes the prototype of srandom_r.
?S: It is zero if d_srandom_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_srandom_r
?S: is defined.
?S:.
?C:HAS_SRANDOM_R:
?C: This symbol, if defined, indicates that the srandom_r routine
?C: is available to srandom re-entrantly.
?C:.
?C:SRANDOM_R_PROTO:
?C: This
 symbol encodes the prototype of srandom_r.
?C: It is zero if d_srandom_r is undef, and one of the
```

```
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_srandom_r
?C: is defined.
?C:.
?H:#$d_srandom_r HAS_SRANDOM_R /**/
?H:#define SRANDOM_R_PROTO $srandom_r_proto /**/
?H:.
?T:try hdrs d_srandom_r_proto
: see if srandom_r exists
set srandom_r d_srandom_r
eval $inlibc
case "$d_srandom_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_stdlib stdlib.h"
 case "$d_srandom_r_proto:$usethreads" in
 ":define") d_srandom_r_proto=define
  set d_srandom_r_proto srandom_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_srandom_r_proto" in
 define)
 case "$srandom_r_proto" in
 "|0) try='int srandom_r(unsigned int, struct random_data*);'
 ./protochk "$extern_C $try" $hdrs && srandom_r_proto=I_TS ;;
 esac
 case "$srandom_r_proto" in
 "|0) d_srandom_r=undef
  srandom_r_proto=0
  echo "Disabling srandom_r, cannot determine prototype." >&4 ;;
 *
 ) case "$srandom_r_proto" in
  REENTRANT_PROTO*) ;;
  *) srandom_r_proto="REENTRANT_PROTO_$srandom_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "srandom_r has no prototype, not using it." >&4 ;;
  esac
  d_srandom_r=undef
  srandom_r_proto=0
  ;;
 esac
 ;;
*) srandom_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_srandom_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: instubperl.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:installusrbinperl: installbin cat bin Myread Setvar test Devel
?MAKE: -pick add $@ %<
?LINT:set installusrbinperl
?Y:TOP
?S:installusrbinperl:
?S: This variable tells whether Perl should be installed also as
?S: /usr/bin/perl in addition to
?S: $installbin/perl
?S:.
?C:INSTALL_USR_BIN_PERL:
?C: This symbol, if defined, indicates that Perl is to be installed
?C: also as /usr/bin/perl.
?C:.
?H:#$installusrbinperl INSTALL_USR_BIN_PERL /**/
?H:.
: determine
 whether to install perl also as /usr/bin/perl

echo " "
if $test -d /usr/bin -a "X$installbin" != X/usr/bin; then
 $cat <<EOM
Many scripts expect perl to be installed as /usr/bin/perl.

If you want to, I can install the perl you are about to compile
as /usr/bin/perl (in addition to $bin/perl).
EOM
 if test -f /usr/bin/perl; then
    $cat <<EOM

However, please note that because you already have a /usr/bin/perl,
overwriting that with a new Perl would very probably cause problems.
Therefore I'm assuming you don't want to do that (unless you insist).
```

```
EOM
    case "$installusrbinperl" in
    "$define"|[yY]*) dflt='y';;
    *)   dflt='n';;
    esac
 else
    $cat <<EOM

Since you don't have a /usr/bin/perl I'm assuming creating one is okay.

EOM
    case "$installusrbinperl" in
    "$undef"|[nN]*) dflt='n';;
    *)   dflt='y';;
    esac
 fi
 rp="Do you want to install perl as /usr/bin/perl?"
 . ./myread
 case "$ans" in
 [yY]*) val="$define";;
 *) val="$undef" ;;
 esac
else
 val="$undef"
fi
set
 installusrbinperl
eval $setvar

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/instubperl.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_atoll: Inlibc
?MAKE: -pick add $@ %<
?S:d_atoll:
?S: This variable conditionally defines the HAS_ATOLL symbol, which
?S: indicates to the C program that the atoll() routine is available.
?S:.
```

```
?C:HAS_ATOLL:
?C: This symbol, if defined, indicates that the atoll routine is
?C: available to convert strings into long longs.
?C:.
?H:#$d_atoll HAS_ATOLL  /**/
?H:.
?LINT:set d_atoll
: see if atoll exists
set atoll d_atoll
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/atoll.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: randfunc.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This is the new unit that should be used when random
?X: functions are to be used. It thus makes randbits.U obsolete.
?X:
?MAKE:randfunc mrand seedfunc nrandbits: cat +cc rm test Myread Csym
?MAKE: -pick add $@ %<
?S:randfunc:
?S: Indicates the name of the random number function to use.
?S: Values include drand48, random, and rand. In C programs,
?S: the 'nrand' macro is defined
 to generate uniformly distributed
?S: random numbers over the range [0., 1.] (see mrand and nrand).
?S:.
?S:mrand:
?S: Indicates the macro to be used to generate normalized
?S: random numbers.  Uses randfunc, often divided by
?S: (double) ((1 << nrandbits) -1) in order to normalize the result.
?S: In C programs, the macro 'nrand' is maped on mrand.
```

```
?S:.
?S:seedfunc:
?S: Indicates the random number generating seed function.
?S: Values include srand48, srandom, and srand.
?S:.
?S:nrandbits:
?S: Indicates how many bits are produced by the function used to
?S: generate normalized random numbers.
?S:.
?C:nrand:
?C: This macro is to be used to generate uniformly distributed
?C: random numbers over the range [0., 1.].
?C:.
?C:seednrand:
?C: This symbol defines the macro to be used in seeding the
?C: random number generator (see nrand).
?C:.
?H:#define nrand()  $mrand  /**/
?H:#define seednrand(x) $seedfunc(x) /**/
?H:.
?T:cont val
?LINT:nothere $nrandbits)
: How can we generate normalized
 random numbers ?
echo " "
case "$randfunc" in
")
 if set drand48 val -f; eval $csym; $val; then
  dflt="drand48"
  echo "Good, found drand48()." >&4
 elif set random val -f; eval $csym; $val; then
  dflt="random"
  echo "OK, found random()." >&4
 else
  dflt="rand"
  echo "Yick, looks like I have to use rand()." >&4
 fi
 echo " "
 ;;
*)
 dflt="$randfunc"
 ;;
esac
cont=true
while $test "$cont"; do
 rp="Use which function to generate random numbers?"
 . ./myread
?X: Invalidates nrandbits if the answer is not the default so
```

```
?X: that the value stored in config.sh will not be used when
?X: we change our random function.
 if $test "$ans" = "$dflt"; then
  : null
 else
  nrandbits=''
 fi
 randfunc="$ans"
 if set $ans val -f; eval $csym; $val; then
  cont=''
 else
  dflt=n
  rp="Function $ans does not exists. Use that name anyway?"
  . ./myread
  dflt=rand
  case "$ans" in
   [yY]*) cont='';;
  esac
 fi
 case "$cont" in
 '')
  case "$randfunc" in
  drand48)
   mrand="drand48()"
   seedfunc="srand48"
   ;;
  rand*)
   case
 "$nrandbits" in
   '')
echo "Checking to see how many bits your $randfunc() function produces..." >&4
   $cat >try.c <<EOCP
#include <stdio.h>
int main()
{
 register int i;
 register unsigned long tmp;
 register unsigned long max = 0L;
 extern long random();

 for (i = 1000; i; i--) {
  tmp = (unsigned long)$randfunc();
  if (tmp > max) max = tmp;
 }
 for (i = 0; max; i++)
  max /= 2;
 printf("%d\n",i);
}
```

```
EOCP
   if $cc -o try try.c >/dev/null 2>&1 ; then
   dflt=`try`
   else
   dflt='?'
   echo "(I can't seem to compile the test program...)"
   fi
   ;;
   *)
    dflt="$nrandbits"
    ;;
   esac
   rp="How many bits does your $randfunc() function produce?"
   . ./myread
   nrandbits="$ans"
   $rm -f try.c try
   mrand="($randfunc() / (double) ((1 << $nrandbits) -1))"
   seedfunc="srand"
   ;;
?X: The following is provided just in case...
  *)
   dflt="31"
   rp="How many bits does your $randfunc() function produce?"
   . ./myread
   nrandbits="$ans"
   seedfunc="s$randfunc"
   mrand="($randfunc()
 / (double) ((1 << $nrandbits) -1))"
   if set $seedfunc val -f; eval $csym; $val; then
    echo "(Using $seedfunc() to seed random generator)"
   else
    echo "(Warning: no $seedfunc() to seed random generator)"
    seedfunc=rand
   fi
   ;;
  esac
  ;;
 esac
done
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/randfunc.U
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Oldsym.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:06:58  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit follows the creation of the config.sh file. It adds some
?X: special symbols: defines from patchlevel.h file if any and CONFIG,
?X: which is set to true. Then, we try to keep all the new symbols that
?X: may come from a hint file or a previous config.sh file.
?X:
?MAKE:Oldsym:
 Config_sh Options test hint src sed sort uniq
?MAKE: -pick add $@ %<
?T:CONFIG sym tmp
?F:!UU
: add special variables
$test -f $src/patchlevel.h && \
awk '/^#define/ {printf "%s=%s\n",$2,$3}' $src/patchlevel.h >>config.sh
echo "CONFIG=true" >>config.sh

: propagate old symbols
if $test -f UU/config.sh; then
?X: Make sure each symbol is unique in oldconfig.sh
 <UU/config.sh $sort | $uniq >UU/oldconfig.sh
?X:
?X: All the symbols that appear twice come only from config.sh (hence the
?X: two config.sh in the command line). These symbols will be removed by
?X: the uniq -u command. The oldsyms file thus contains all the symbols
?X: that did not appear in the produced config.sh (Larry Wall).
?X:
?X: Do not touch the -u flag of uniq.  This means you too, Jarkko.
?X:
 $sed -n 's/^\([a-zA-Z_0-9]*\)=.*/\1/p' \
  config.sh config.sh UU/oldconfig.sh |\
  $sort | $uniq -u >UU/oldsyms
 set X `cat UU/oldsyms`
 shift
 case $# in
```

```
 0) ;;
 *)
  cat <<EOM
Hmm...You had some extra variables I don't know about...I'll
 try to keep 'em...
EOM
  echo ": Variables propagated from previous config.sh file." >>config.sh
  for sym in `cat UU/oldsyms`; do
   echo "    Propagating $hint variable "'$'"$sym..."
   eval 'tmp="$'"${sym}"'"'
   echo "$tmp" | \
    sed -e "s/'/'\''\''/g" -e "s/^/$sym='/" -e "s/$/'/" >>config.sh
  done
  ;;
 esac
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Oldsym.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_trunc: Inlibc
?MAKE: -pick add $@ %<
?S:d_trunc:
?S: This variable conditionally defines the HAS_TRUNC symbol, which
?S: indicates to the C program that the trunc() routine is available
?S: to round doubles towards zero.
?S:.
?C:HAS_TRUNC:
?C: This symbol, if defined, indicates that the trunc routine is
?C: available to round doubles towards zero.
?C:.
?H:#$d_trunc HAS_TRUNC  /**/
?H:.
?LINT:set d_trunc
: see if trunc exists
set trunc d_trunc
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_trunc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fstatfs : Inlibc
?MAKE: -pick add $@ %<
?S:d_fstatfs:
?S: This variable conditionally defines the HAS_FSTATFS symbol, which
?S: indicates to the C program that the fstatfs() routine is available.
?S:.
?C:HAS_FSTATFS:
?C: This symbol, if defined, indicates that the fstatfs routine is
?C: available to stat filesystems by file descriptors.
?C:.
?H:#$d_fstatfs HAS_FSTATFS  /**/
?H:.
?LINT:set d_fstatfs
: see if fstatfs exists
set fstatfs d_fstatfs
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fstatfs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: packadmin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:packadmin: cf_email Oldconfig Myread cat spackage package
?MAKE: -pick add $@ %<
?Y:TOP
?S:packadmin:
?S: Electronic mail address of the package administrator.
?S:.
: check wehther they will act as local admin for the package
$cat <<EOM
```

```
If you or somebody else will be maintaining $package at your site, please
fill in the correct e-mail address here so that they may be contacted
if necessary.  You may enter "none"
 for no administrator.

EOM
case "$packadmin" in
") dflt="$cf_email";;
*) dflt="$packadmin";;
esac
rp="$spackage administrator e-mail address"
. ./myread
packadmin="$ans"
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/packadmin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_NOFILE.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:08:38  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:nofile d_gettblsz tablesize: Myread Guess cat +cc +ccflags +libs \
 test rm Csym
?MAKE: -pick add $@ %<
?S:nofile:
?S: This variable contains the number of file descriptors available to the
?S: process.
?S:.
?S:d_gettblsz:
?S: This variable conditionally handles remapping
 of the getdtablesize()
?S: subroutine to ulimit(4,0), or the NOFILE manifest constant.
```

```
?S:.
?S:tablesize:
?S: This variable contains either the 'NOFILE' constant or 'ulimit(4, 0L)'
?S: and is used as the remapped value for the getdtablesize() macro.
?S:.
?C:getdtablesize:
?C: This catches use of the getdtablesize() subroutine, and remaps it
?C: to either ulimit(4,0) or NOFILE, if getdtablesize() isn't available.
?C:.
?C:VAL_NOFILE:
?C: This symbol contains the number of file descriptors available to the
?C: process, as determined at configuration time. Unless a static constant
?C: is needed, you should rely on getdtablesize() to obtain that number.
?C:.
?H:#$d_gettblsz getdtablesize() $tablesize /**/
?H:#define VAL_NOFILE $nofile /* Number of file descriptors */
?H:.
?F:!nofile
?T:d_ulimit4 val
: see if getdtablesize exists
echo " "
?X: Revert logical value (d_gettblsz is undef iff getdtablesize is present)
case "$d_gettblsz" in
$define) d_gettblsz="$undef";;
$undef) d_gettblsz="$define";;
esac
if
 set getdtablesize val -f d_gettblsz; eval $csym; $val; then
 echo 'getdtablesize() found.' >&4
 d_gettblsz="$undef"
 tablesize="
@if VAL_NOFILE || nofile
 $cat >nofile.c <<'EOCP'
#include <stdio.h>
int main()
{
 printf("%d\n", getdtablesize());
}
EOCP
 nofile="
 if $cc $ccflags -o nofile nofile.c $libs >/dev/null 2>&1; then
  nofile=`./nofile 2>/dev/null`
 fi
 if $test "$nofile"; then
  echo "(You have $nofile file descriptors available per process.)"
 else
  nofile='20'
  if ./bsd; then
```

```
  nofile='64'
  fi
 echo "(Hmm... Let's say you have $nofile file descriptors available.)"
 fi
@end
else
 echo 'getdtablesize() NOT found...' >&4
 if set ulimit val -f; eval $csym; $val; then
  echo 'Maybe ulimit(4,0) will work...'
  $cat >nofile.c <<'EOCP'
#include <stdio.h>
#ifdef GETPARAM_H
#include <sys/param.h>
#endif
int main()
{
 printf("%d %d\n",
#ifdef NOFILE
  NOFILE,
#else
  0,
#endif
  ulimit(4,0));
  exit(0);
}
EOCP
  if $cc $ccflags -DGETPARAM_H -o nofile nofile.c $libs
 >/dev/null 2>&1 \
  || $cc $ccflags -o nofile nofile.c $libs >/dev/null 2>&1 ; then
  set `./nofile`
  d_gettblsz=$1
  d_ulimit4=$2
  if $test "$d_ulimit4" -lt 0; then
   echo "Your ulimit() call doesn't tell me what I want to know."
   echo "We'll just use NOFILE in this case."
   nofile=$d_gettblsz
   d_gettblsz="$define"
   tablesize='NOFILE'
  else
   if $test "$d_gettblsz" -gt 0; then
   echo "Your system defines NOFILE to be $d_gettblsz, and" >&4
   else
   echo "I had trouble getting NOFILE from your system, but" >&4
   fi
echo "ulimit returns $d_ulimit4 as the number of available file descriptors." >&4
   dflt='y';
   echo " "
 rp='Should I use ulimit to get the number of available file descriptors?'
```

```
    . ./myread
    case "$ans" in
    y*)
     nofile=$d_ulimit4
     d_gettblsz="$define"
     tablesize='ulimit(4, 0L)'
     echo "Using ulimit(4,0)."
     ;;
    *)
     nofile=$d_gettblsz
     d_gettblsz="$define"
     tablesize='NOFILE'
     echo "Using NOFILE."
     ;;
    esac
   fi
  else
   echo
 "Strange, I couldn't get my test program to compile."
   echo "We'll just use NOFILE in this case."
   d_gettblsz="$define"
   tablesize='NOFILE'
   nofile=''
  fi
 else
  echo 'Using NOFILE instead.'
  d_gettblsz="$define"
  tablesize='NOFILE'
  nofile=''
 fi
fi
@if VAL_NOFILE || nofile
case "$nofile" in
'')
 $cat >nofile.c <<'EOCP'
#include <stdio.h>
#ifdef GETPARAM_H
#include <sys/param.h>
#endif
int main()
{
 printf("%d\n",
#ifdef NOFILE
  NOFILE,
#else
  0,
#endif
  );
```

```
  exit(0);
}
EOCP
 if $cc $ccflags -DGETPARAM_H -o nofile nofile.c $libs >/dev/null 2>&1 \
  || $cc $ccflags -o nofile nofile.c $libs >/dev/null 2>&1 ; then
  nofile=`./nofile 2>/dev/null`
 fi
 if $test "$nofile"; then
  echo "(You have $nofile file descriptors available per process.)"
 else
  nofile='20'
  if ./bsd; then
   nofile='64'
  fi
 echo "(Hmm... Let's say you have $nofile file descriptors available.)"
 fi
 ;;
esac
@end
$rm -f nofile*
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_NOFILE.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:gidformat: gidsize gidsign ivsize uvsize longsize intsize shortsize \
 ivdformat uvuformat test echo
?MAKE: -pick add $@ %<
?S:gidformat:
?S: This variable contains the format string used for printing a Gid_t.
?S:.
?C:Gid_t_f:
?C: This symbol defines the format string used for printing a Gid_t.
?C:.
?H:#define Gid_t_f  $gidformat  /**/
?H:.
: Check format string for GID

echo " "
$echo "Checking the format string to be used for gids..." >&4
```

```
case "$gidsign" in
-1) if $test X"$gidsize" = X"$ivsize"; then
  gidformat="$ivdformat"
 else
  if $test X"$gidsize" = X"$longsize"; then
   gidformat="'ld'"
  else
   if $test X"$gidsize" = X"$intsize"; then
    gidformat="'d'"
   else
    if $test X"$gidsize"
 = X"$shortsize"; then
     gidformat="'hd'"
    fi
   fi
  fi
 fi
 ;;
*) if $test X"$gidsize" = X"$uvsize"; then
  gidformat="$uvuformat"
 else
  if $test X"$gidsize" = X"$longsize"; then
   gidformat="'lu'"
  else
   if $test X"$gidsize" = X"$intsize"; then
    gidformat="'u'"
   else
    if $test X"$gidsize" = X"$shortsize"; then
     gidformat="'hu'"
    fi
   fi
  fi
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/gidf.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_crypt.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_crypt.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:31:47  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_crypt cryptlib: Loc test xlibpth libpth Csym Setvar _a Inlibc
?MAKE: -pick add $@ %<
?S:d_crypt:
?S: This variable conditionally defines the CRYPT symbol, which
?S: indicates to the C program that the crypt() routine is available
?S: to
 encrypt passwords and the like.
?S:.
?S:cryptlib:
?S: This variable holds -lcrypt or the path to a libcrypt.a archive if
?S: the crypt() function is not defined in the standard C library. It is
?S: up to the Makefile to use this.
?S:.
?C:HAS_CRYPT (CRYPT):
?C: This symbol, if defined, indicates that the crypt routine is available
?C: to encrypt passwords and the like.
?C:.
?H:#$d_crypt HAS_CRYPT  /**/
?H:.
?LINT:set d_crypt
?T:val
: see if crypt exists
echo " "
set crypt d_crypt
eval $inlibc
case "$d_crypt" in
$define) cryptlib=" ;;
*) if set crypt val -f d_crypt; eval $csym; $val; then
  echo 'crypt() found.' >&4
  val="$define"
  cryptlib="
 else
  cryptlib=`./loc Slibcrypt$_a "" $xlibpth`
  if $test -z "$cryptlib"; then
   cryptlib=`./loc Mlibcrypt$_a "" $xlibpth`
  else
   cryptlib=-lcrypt
```

```
  fi
  if $test -z "$cryptlib"; then
   cryptlib=`./loc Llibcrypt$_a "" $xlibpth`
  else
   cryptlib=-lcrypt
  fi
  if $test -z "$cryptlib"; then
   cryptlib=`./loc libcrypt$_a ""
 $libpth`
  else
   cryptlib=-lcrypt
  fi
  if $test -z "$cryptlib"; then
   echo 'crypt() NOT found.' >&4
   val="$undef"
  else
   val="$define"
  fi
 fi
 set d_crypt
 eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_crypt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_voidsig.U,v $
?RCS: Revision 3.0.1.3  1995/05/12  12:12:46  ram
?RCS: patch54: made cppflags dependency optional
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:20:35  ram
?RCS: patch32: now sets signal_t only once d_voidsig is known (WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:59:54  ram
?RCS: patch30: now properly sets signal_t when re-using previous value
```

```
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_voidsig signal_t: rm contains
 cppstdin cppminus +cppflags test Myread \
 Oldconfig Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_voidsig:
?S: This variable conditionally defines VOIDSIG if this system
?S: declares "void (*signal(...))()" in signal.h.  The old way was to
?S: declare it as "int (*signal(...))()".
?S:.
?S:signal_t:
?S: This variable holds the type of the signal handler (void or int).
?S:.
?C:VOIDSIG:
?C: This symbol is defined if this system declares "void (*signal(...))()" in
?C: signal.h.  The old way was to declare it as "int (*signal(...))()".  It
?C: is up to the package author to declare things correctly based on the
?C: symbol.
?C:.
?C:Signal_t (SIGNAL_T):
?C: This symbol's value is either "void" or "int", corresponding to the
?C: appropriate return type of a signal handler.  Thus, you can declare
?C: a signal handler using "Signal_t (*handler)()", and define the
?C: handler using "Signal_t handler(sig)".
?C:.
?H:#$d_voidsig VOIDSIG  /**/
?H:#define Signal_t $signal_t /* Signal handler's return
 type */
?H:.
?T:xxx
?LINT:set d_voidsig
: see if signal is declared as pointer to function returning int or void
echo " "
xxx=`./findhdr signal.h`
$test "$xxx" && $cppstdin $cppminus $cppflags < $xxx >$$.tmp 2>/dev/null
if $contains 'int.*\*[  ]*signal' $$.tmp >/dev/null 2>&1 ; then
 echo "You have int (*signal())() instead of void." >&4
 val="$undef"
elif $contains 'void.*\*[  ]*signal' $$.tmp >/dev/null 2>&1 ; then
 echo "You have void (*signal())() instead of int." >&4
 val="$define"
elif $contains 'extern[  ]*[(\*]*signal' $$.tmp >/dev/null 2>&1 ; then
 echo "You have int (*signal())() instead of void." >&4
 val="$undef"
else
```

```
 case "$d_voidsig" in
 ")
 echo "I can't determine whether signal handler returns void or int..." >&4
  dflt=void
  rp="What type does your signal handler return?"
  . ./myread
  case "$ans" in
  v*) val="$define";;
  *) val="$undef";;
  esac;;
 "$define")
  echo "As you already told me, signal handler returns void." >&4;;
 *)
  echo "As you already told
 me, signal handler returns int." >&4;;
 esac
fi
set d_voidsig
eval $setvar
case "$d_voidsig" in
"$define") signal_t="void";;
*) signal_t="int";;
esac
$rm -f $$.tmp
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_voidsig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: install.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: install.U,v $
?RCS: Revision 3.0.1.2  1995/09/25  09:16:37  ram
?RCS: patch59: all possible install programs are now looked for
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:30:41  ram
?RCS: patch45: created
?RCS:
?MAKE:install installdir: Loc Oldconfig Getfile cat test startsh rm +cc \
```

```
 eunicefix package contains mkdir echo n c
?MAKE: -pick add $@ %<
?S:install:
?S: This variable contains the name of an install program that can accept
?S: BSD-style arguments.
 It must correctly support -c, -s, and -m at least.
?S: It is a fully qualified pathname when found. If you have a local
?S: install.SH file at the root directory of your package, it is assumed to
?S: be the default script emulating a BSD install and the variable will be
?S: set to ./install. Otherwise, it is set to plain 'install', relying on
?S: the user's PATH to perform miracles.
?S:.
?S:installdir:
?S: This variable contains the name of a program that can install nested
?S: directories. Often set to 'mkdir -p', it can also be 'install -d' if
?S: you have such a beast and lack the former. If you have an install.SH
?S: file at the root directory of your package, it will be used in last
?S: resort, setting the variable to './install -d'. Otherwise, it is set to
?S: plain 'mkdir', and cross your fingers!
?S:.
?T:dir file tryit prog creatdir either
?F:!tryinst
: locate a BSD compatible install program
echo " "
echo "Looking for a BSD-compatible install program..." >&4
@if installdir
creatdir="
@end
case
 "$install" in
")
 tryit="
 for dir in $pth; do
  for file in ginstall installbsd scoinst install; do
   if $test -f $dir/$file; then
    tryit="$tryit $dir/$file"
   fi
  done
 done
 $cat >try.c <<EOC
int main()
{
 printf("OK\n");
 exit(0);
}
EOC
 if $cc -o try try.c >/dev/null 2>&1; then
  cp try try.ns
```

```
 strip try >/dev/null 2>&1
 else
  echo "(I can't seem to compile a trivial C program -- bypassing.)"
  echo "try" >try
  cp try try.ns
 fi
 $cat >tryinst <<EOS
$startsh
$rm -rf foo d
@if installdir
\$1 -d foo/bar
@end
$mkdir d
\$1 -c -m 764 try.ns d
\$1 -c -s -m 642 try.ns d/try
EOS
 chmod +x tryinst
 $eunicefix tryinst
 dflt=''
 either=''
 for prog in $tryit; do
  $echo $n "Checking $prog... $c"
  ./tryinst $prog >/dev/null 2>&1
@if installdir
  if $test -d foo/bar; then
   creatdir="$prog -d"
  fi
@end
  (ls -l d/try >try.ls; ls -l d/try.ns >tryno.ls) 2>/dev/null
  if (cmp -s d/try try && cmp -s d/try.ns try.ns && \
   $contains 'rwxrw-r--' tryno.ls &&
 \
   $contains 'rw-r---w-' try.ls) >/dev/null 2>&1
  then
   dflt="$prog"
   echo "ok, that will do."
   break
  fi
  echo "not good$either."
  either=' either'
  $rm -f try*.ls
 done
 $rm -rf foo d tryinst try try*.ls try.*
 case "$dflt" in
 '')
@if {test -f ../install.SH}
  echo "Hopefully, $package comes with its own install script!"
  dflt='./install'
```

```
@else
  dflt='install'
@end
  ;;
 esac
 ;;
*) dflt="$install";;
esac
$cat <<EOM

I will be requiring a BSD-compatible install program (one that allows
options like -s to strip executables or -m to specify a file mode) to
install $package.

If the question below contains a fully qualified default path, then it
is probably ok. If it is an unqualified name such as 'install', then it
means I was unable to find out a good install program I could use. If
@if {test -f ../install.SH}
you know of one, please tell me about it. If the default is './install',
then I shall be using the install script supplied with $package.
@else
you know of one,
 please tell me about it.
@end

EOM
@if {test -f ../install.SH}
fn='/fe~(install,./install)'
@else
fn='/fe~(install)'
@end
rp='Which install program shall I use?'
. ./getfile
install="$ans"

@if installdir
: how can we create nested directories?
echo " "
echo "Ok, let's see how we can create nested directories..." >&4
case "$installdir" in
")
?X: First time, maybe we already found out a working one in $creatdir above...
?X: Prefer "mkdir -p" because of bugs in GNU install when not running as root
 $mkdir -p foo/bar >/dev/null 2>&1
 if $test -d foo/bar; then
  echo "Great, we can build them using 'mkdir -p'."
  creatdir='mkdir -p'
 else
```

```
  case "$creatdir" in
  ")
   if eval "$install -d foo/bar"; $test -d foo/bar; then
    creatdir="install -d"
    echo "It looks like '$creatdir' will do it for us."
   fi
   ;;
  *)
   eval "$creatdir foo/bar" >/dev/null 2>&1
   if $test -d foo/bar; then
    echo "Ah! We can use '$creatdir' to do just that."
   else
    creatdir="
   fi
   ;;
  esac
 fi
 $rm
 -rf foo
 case "$creatdir" in
 ")
  echo "Heck! Another ancient system lacking the comfort of modern ones!"
@if {test -f ../install.SH}
  echo "You can thank $package for bringing you its own install script!"
  installdir='./install -d'
@else
  echo "We have no choice but to use plain old 'mkdir' -- wish me luck!"
  installdir=mkdir
@end
  ;;
 *) installdir="$creatdir";;
 esac
 ;;
*) echo "As you already told me, '$installdir' should work.";;
esac

@end
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/install.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sig_name.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sig_name.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  16:21:25  ram
?RCS: patch61: brand new algorithm for sig_name and (new!) sig_num
?RCS:
?RCS: Revision 3.0.1.4  1995/07/25  14:14:54  ram
?RCS: patch56: added <asm/signal.h> lookup for Linux
?RCS:
?RCS: Revision 3.0.1.3  1995/05/12  12:24:11  ram
?RCS: patch54: now looks for <linux/signal.h> too (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20  07:06:57  ram
?RCS: patch30: final echo was missing to close
 awk-printed string
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:17:55  ram
?RCS: patch23: signal list now formatted to avoid scroll-ups (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:sig_name sig_name_init sig_num sig_num_init sig_count sig_size: \
 awk Signal Oldconfig rm
?MAKE: -pick add $@ %<
?S:sig_name:
?S: This variable holds the signal names, space separated. The leading
?S: SIG in signal name is removed.  A ZERO is prepended to the list.
?S: This is currently not used, sig_name_init is used instead.
?S:.
?S:sig_name_init:
?S: This variable holds the signal names, enclosed in double quotes and
?S: separated by commas, suitable for use in the SIG_NAME definition
?S: below.  A "ZERO" is prepended to the list, and the list is
?S: terminated with a plain 0.  The leading SIG in signal names
?S: is removed. See sig_num.
?S:.
?S:sig_num:
?S: This variable holds the signal numbers, space separated. A ZERO is
?S: prepended
 to the list (corresponding to the fake SIGZERO).
?S: Those numbers correspond to  the value of the signal listed
?S: in the same place within the sig_name list.
?S: This is currently not used, sig_num_init is used instead.
?S:.
```

```
?S:sig_num_init:
?S: This variable holds the signal numbers, enclosed in double quotes and
?S: separated by commas, suitable for use in the SIG_NUM definition
?S: below.  A "ZERO" is prepended to the list, and the list is
?S: terminated with a plain 0.
?S:.
?S:sig_count (sig_name.U):
?S: This variable holds a number larger than the largest valid
?S: signal number.  This is usually the same as the NSIG macro.
?S:.
?S:sig_size:
?S: This variable contains the number of elements of the sig_name
?S: and sig_num arrays.
?S:.
?C:SIG_NAME:
?C: This symbol contains a list of signal names in order of
?C: signal number. This is intended
?C: to be used as a static array initialization, like this:
?C:  char *sig_name[] = { SIG_NAME };
?C: The signals in the list are separated
 with commas, and each signal
?C: is surrounded by double quotes. There is no leading SIG in the signal
?C: name, i.e. SIGQUIT is known as "QUIT".
?C: Gaps in the signal numbers (up to NSIG) are filled in with NUMnn,
?C: etc., where nn is the actual signal number (e.g. NUM37).
?C: The signal number for sig_name[i] is stored in sig_num[i].
?C: The last element is 0 to terminate the list with a NULL.  This
?C: corresponds to the 0 at the end of the sig_name_init list.
?C: Note that this variable is initialized from the sig_name_init,
?C: not from sig_name (which is unused).
?C:.
?C:SIG_NUM:
?C: This symbol contains a list of signal numbers, in the same order as the
?C: SIG_NAME list. It is suitable for static array initialization, as in:
?C:  int sig_num[] = { SIG_NUM };
?C: The signals in the list are separated with commas, and the indices
?C: within that list and the SIG_NAME list match, so it's easy to compute
?C: the signal name from a number or vice versa at the price of a small
?C: dynamic
 linear lookup.
?C: Duplicates are allowed, but are moved to the end of the list.
?C: The signal number corresponding to sig_name[i] is sig_number[i].
?C: if (i < NSIG) then sig_number[i] == i.
?C: The last element is 0, corresponding to the 0 at the end of
?C: the sig_name_init list.
?C: Note that this variable is initialized from the sig_num_init,
?C: not from sig_num (which is unused).
?C:.
```

```
?C:SIG_COUNT:
?C: This variable contains a number larger than the largest
?C: signal number.  This is usually the same as the NSIG macro.
?C:.
?C:SIG_SIZE:
?C: This variable contains the number of elements of the SIG_NAME
?C: and SIG_NUM arrays, excluding the final NULL entry.
?C:.
?H:#define SIG_NAME $sig_name_init  /**/
?H:#define SIG_NUM  $sig_num_init  /**/
?H:#define SIG_COUNT $sig_count   /**/
?H:#define SIG_SIZE $sig_size   /**/
?H:.
?T:i doinit
?F:!= !signal_cmd
?X: signal.cmd creates a file  signal.lst which has two columns:
?X: NAME  number, e.g.
?X:  HUP 1
?X: The list is
 sorted on signal number, with duplicates moved to
?X: the end..
: generate list of signal names
case "$sig_num_init" in
")
echo " "
case "$sig_name_init" in
") doinit=yes ;;
*)  case "$sig_num_init" in
   "|*,*) doinit=yes ;;
   esac ;;
esac
case "$doinit" in
yes)
 echo "Generating a list of signal names and numbers..." >&4
 . ./signal_cmd
 sig_count=`$awk '/^NSIG/ { printf "%d", $2 }' signal.lst`
 sig_name=`$awk 'BEGIN { printf "ZERO " }
   !/^NSIG/ { printf "%s ", $1 }' signal.lst`
 sig_num=`$awk  'BEGIN { printf "0 " }
   !/^NSIG/ { printf "%d ", $2 }' signal.lst`
 sig_name_init=`$awk 'BEGIN { printf "\"ZERO\", " }
        !/^NSIG/ { printf "\"%s\", ", $1 }
        END { printf "0\n" }' signal.lst`
 sig_num_init=`$awk  'BEGIN { printf "0, " }
        !/^NSIG/ { printf "%d, ", $2}
        END { printf "0\n"}' signal.lst`
 ;;
esac
```

```
echo "The following $sig_count signals are available:"
echo " "
echo $sig_name | $awk \
'BEGIN { linelen = 0 }
{
 for (i = 1; i <= NF; i++) {
  name
 = "SIG" $i " "
  linelen = linelen + length(name)
  if (linelen > 70) {
   printf "\n"
   linelen = length(name)
  }
  printf "%s", name
 }
 printf "\n"
}'
sig_size=`echo $sig_name | awk '{print NF}'`
$rm -f signal signal.c signal.awk signal.lst signal_cmd
;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/sig_name.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: mkdep.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: mkdep.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  16:13:07  ram
?RCS: patch61: replaced .o with $_o all over the place
?RCS:
?RCS: Revision 3.0.1.3  1994/10/29  16:25:02  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:15:12  ram
?RCS: patch16: cppflags is now an optional dependency
?RCS:
?RCS: Revision 3.0.1.1  1993/12/15  08:22:39  ram
```

```
?RCS: patch15: force zero exit status in all mkdep scripts
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:09:16  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit generates the script 'mkdep' in the top-level directory.
?X: It is up to the makefile to use it for automatic dependencies
?X: generation (usage: 'mkdep [cppflags] -- *.c').
?X:
?MAKE:mkdep: spitshell startsh cpp +cppflags grep contains rm sed sort uniq \
 Getfile Oldconfig eunicefix cat +cc cppminus test pkgsrc _o
?MAKE: -pick add $@ %<
?S:mkdep:
?S: This variable holds the name of a command to generate makefile
?S: dependencies on the standard output. It is the pathname of the
?S: generated mkdep script.
?S:.
?F:mkdep
?T:IFS arg flags takeflags srcfile toplev filebase inc dir files file dep c
: find out how to generate dependencies
echo " "
echo "Checking how to generate makefile dependencies on your machine..." >&4
?X: We are in the UU directory
toplev=`cd ..;pwd`
$cat >dep.c <<'EOCP'
#include "dep.h"
EOCP
?X: Empty dep.h causes RIOS to barf
$cat >dep.h <<'EOCP'

EOCP
takeflags='flags=""
case
 "$@" in
*--*)
 for arg
 do
  shift
  case "$arg" in
  --) break;;
  *) flags="$flags $arg";;
  esac
 done;;
esac'
case "$mkdep" in
")
```

```
 ;;
*)
 if test -f "$mkdep" &&
  $mkdep dep.c >dep.out 2>/dev/null &&
  $contains "dep$_o:.*dep\.h" dep.out >/dev/null 2>&1
 then
  echo "$mkdep works."
?X: If they copied a config.sh from some other place, they'll have a working
?X: mkdep script probably, but not located at the top of the sources.  And
?X: the Makefiles generated by jmake expect an mkdep script in the top dir.
  case "$mkdep" in
  "$pkgsrc/mkdep");;
  *) echo "(copying it to $pkgsrc)"
   cp $mkdep $pkgsrc/mkdep 2>/dev/null
      if $pkgsrc/mkdep dep.c >dep.out 2>/dev/null &&
    $contains "dep$_o:.*dep\.h" dep.out >/dev/null 2>&1; then
    mkdep=$pkgsrc/mkdep
   else
    echo "Hmm... The copy failed or something... Guessing again..."
    mkdep=
   fi
   ;;
  esac
 else
  mkdep=
 fi
esac

case "$mkdep" in
")
?X: have to figure something out: Try cpp
?X: have
 to pass source names one by one to cpp...
 $spitshell > ../mkdep <<EOM
$startsh
$takeflags
for srcfile
do
 $cpp -M $cppflags \$flags \$srcfile 2>/dev/null
done
exit 0
EOM
 mkdep=$toplev/mkdep
 chmod +x $mkdep
 $eunicefix $mkdep
 if $mkdep dep.c >dep.out 2>/dev/null &&
  $contains "dep$_o:.*dep\.h" dep.out >/dev/null 2>&1
 then
```

```
  echo "Looks like we can use $cpp -M."
 else
  mkdep=
 fi
 ;;
esac

case "$mkdep" in
")
?X: have to figure something out: on NeXT, use cc -MM
?X: have to pass source names one by one to cc...
 $spitshell > ../mkdep <<EOM
$startsh
$takeflags
for srcfile
do
 $cc -MM $cppflags \$flags \$srcfile 2>/dev/null
done
exit 0
EOM
 mkdep=$toplev/mkdep
 chmod +x $mkdep
 $eunicefix $mkdep
 if $mkdep dep.c >dep.out 2>/dev/null &&
  $contains "dep$_o: dep.h" dep.out >/dev/null 2>&1
 then
  echo "Looks like we can use $cc -MM."
 else
  mkdep=
 fi
 ;;
esac

case "$mkdep" in
")
?X: still no luck -- try something fancier.
 $spitshell >../mkdep <<EOS
$startsh
$takeflags
for srcfile
do
 case
 "\$srcfile" in
 *.c) c='.c';;
 *.y) c='.y';;
 *.l) c='.l';;
 esac
 filebase=\`basename \$srcfile \$c\`
```

```
 <\$srcfile $cpp $cppminus $cppflags \$flags 2>/dev/null | \\
 $sed -e '/^# *[0-9]/!d' \\
  -e 's/^.*"\(.*\)".*\$/'\$filebase'$_o: \1/' \\
  -e 's|: \./|: |' \\
  -e 's|: *$|: '\$srcfile'|' | \\
 $grep -v '^#' | $sort | $uniq
done
exit 0
EOS
 mkdep=$toplev/mkdep
 chmod +x $mkdep
 $eunicefix $mkdep
 if $mkdep dep.c >dep.out 2>/dev/null &&
  $contains "dep$_o:.*dep\.h" dep.out >/dev/null 2>&1
 then
  echo "A shell script using $cpp does the trick."
 else
  echo "$cpp doesn't seem to be any use at all."
  $spitshell >../mkdep <<EOS
$startsh
$takeflags
files="\$@"
set X \$flags
shift
inc='.'
while test \$# -gt 0
do
 case "\$1" in
 -I)
  shift
  inc="\$inc:\$1"
  ;;
 -I*)
  dir=\`echo \$1 | sed -e 's/^-I//'\`
  inc="\$inc:\$dir"
  ;;
 esac
 shift
done
set X \$files
shift
trap "$rm -f /tmp/mkdep\$\$; exit 1" 1 2 3 15
for srcfile
do
 case "\$srcfile" in
 *.c) c='.c';;
 *.y) c='.y';;
 *.l)
```

```
 c='.l';;
 esac
 filebase=\`basename \$srcfile \$c\`
 echo \$filebase$_o: \$srcfile
 $grep '^#[  ]*include' \$srcfile /dev/null | \
 $sed -n -e 's/#[   ]*include[  ]*//' \\
  -e '/<\(.*\)>/ d' \\
  -e 's/:[^"]*"\([^"]*\)".*/: \1/' \\
  -e "s/\\.c:/$_o:/p" > /tmp/mkdep\$\$
?X: Deal with directories specified via -I requests to locate files
 IFS=': '
 while read file dep; do
  for dir in \$inc; do
   if $test -f "\$dir/\$dep"; then
    dep="\$dir/\$dep"
    break
   fi
  done
  echo "\$file: \$dep" | $sed -e 's,: \./,: ,'
 done </tmp/mkdep\$\$
 IFS=' '
 $rm -f /tmp/mkdep\$\$
done
exit 0
EOS
  mkdep=$toplev/mkdep
  chmod +x $mkdep
  $eunicefix $mkdep
  if $mkdep dep.c >dep.out 2>/dev/null &&
   $contains "dep$_o:.*dep\.h" dep.out >/dev/null 2>&1
  then
   cat << EOM

I can use a script with grep instead, but it will make some incorrect
dependencies, since it doesn't understand about conditional compilation.
Moreover, some dependencies may be missing, because scanning won't be
a
 recursive process.
If you have a program which generates makefile dependencies, you may want
to use it.  If not, you can use the script and edit the Makefile by hand
if you need to.
EOM
  else
   mkdep=
   cat << EOM

I can't seem to generate makefile dependencies at all!  Perhaps you have a
program that does?  If you don't, you might look at the mkdep script to
```

```
see if you can create one which works.
EOM
  fi
 fi
esac
echo " "
dflt="$mkdep"
fn=f~/
rp="Name of program to make makefile dependencies?"
. ./getfile
mkdep="$ans"
$rm -f dep.c dep.h dep$_o dep.out
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/mkdep.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_fp_class.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_fp_class: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_fp_class:
?S: This variable conditionally defines the I_FP_CLASS symbol, and indicates
?S: whether a C program should include <fp_class.h>.
?S:.
?C:I_FP_CLASS:
?C: This symbol, if defined, indicates that <fp_class.h> exists and
?C: should be included.
?C:.
?H:#$i_fp_class I_FP_CLASS  /**/
?H:.
?LINT:set i_fp_class
: see if this is a fp_class.h system
set fp_class.h i_fp_class
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_fp_class.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: lex.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Orginal Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: lex.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:22:50  ram
?RCS: patch36: spurious single quote could cause Configure to crash
?RCS: patch36: (reported by Xavier Le Vourch <xavierl@eiffel.com>.)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:27:09  ram
?RCS: patch32: added lexflags variable for lex flags setting
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:06:01  ram
?RCS: patch23: added
 trailing blank line for metalint
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lex lexflags: Guess Myread Oldconfig flex test
?MAKE: -pick add $@ %<
?S:lex:
?S: This variable holds the name of the lexical analyser generator we
?S: want to use in the Makefile. It can be lex or flex.
?S:.
?S:lexflags:
?S: This variable holds any flags that should be passed to the lexical
?S: analyzer.  It is up to the Makefile to use it.
?S:.
: determine lexical analyser generator
case "$lex" in
")
 dflt=lex;;
*)
 dflt="$lex";;
esac
echo " "
if $test -f "$flex"; then
 rp='Which lexical analyser generator (lex or flex) shall I use?'
else
 rp='Which lexical analyser generator shall I use?'
```

```
fi
. ./myread
lex="$ans"

@if lexflags
: if using lex this will normally be useless, but flex frequently takes args
echo " "
case "$lexflags" in
") dflt='none';;
*) dflt="$lexflags";;
esac
rp="What flags should be given to $lex?"
. ./myread
case "$ans"
 in
none) lexflags=";;
*) lexflags="$ans";;
esac

@end
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/lex.U
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```
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?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_pwd.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:10:57  ram
?RCS: patch56: use setvar so hint file values can override our guesses (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:03:27  ram
?RCS: patch23: had forgotten cppminus in cppstdin test (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:25  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit checks whether there is a pwd system or not
```

```
?X:
?MAKE:i_pwd d_pwquota d_pwage d_pwchange d_pwclass d_pwexpire d_pwcomment:
 \
 contains rm cppstdin cppflags cppminus Inhdr Findhdr Setvar
?MAKE: -pick add $@ %<
?S:i_pwd:
?S: This variable conditionally defines I_PWD, which indicates
?S: to the C program that it should include <pwd.h>.
?S:.
?S:d_pwquota:
?S: This varaible conditionally defines PWQUOTA, which indicates
?S: that struct passwd contains pw_quota.
?S:.
?S:d_pwage:
?S: This varaible conditionally defines PWAGE, which indicates
?S: that struct passwd contains pw_age.
?S:.
?S:d_pwchange:
?S: This varaible conditionally defines PWCHANGE, which indicates
?S: that struct passwd contains pw_change.
?S:.
?S:d_pwclass:
?S: This varaible conditionally defines PWCLASS, which indicates
?S: that struct passwd contains pw_class.
?S:.
?S:d_pwexpire:
?S: This varaible conditionally defines PWEXPIRE, which indicates
?S: that struct passwd contains pw_expire.
?S:.
?S:d_pwcomment:
?S: This varaible conditionally defines PWCOMMENT, which indicates
?S: that struct passwd contains pw_comment.
?S:.
?C:I_PWD:
?C: This symbol,
 if defined, indicates to the C program that it should
?C: include <pwd.h>.
?C:.
?C:PWQUOTA:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_quota.
?C:.
?C:PWAGE:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_age.
?C:.
?C:PWCHANGE:
?C: This symbol, if defined, indicates to the C program that struct passwd
```

```
?C: contains pw_change.
?C:.
?C:PWCLASS:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_class.
?C:.
?C:PWEXPIRE:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_expire.
?C:.
?C:PWCOMMENT:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_comment.
?C:.
?H:#$i_pwd I_PWD  /**/
?H:#$d_pwquota PWQUOTA /**/
?H:#$d_pwage PWAGE /**/
?H:#$d_pwchange PWCHANGE /**/
?H:#$d_pwclass PWCLASS /**/
?H:#$d_pwexpire PWEXPIRE /**/
?H:#$d_pwcomment PWCOMMENT /**/
?H:.
?LINT: set i_pwd d_pwquota
 d_pwage d_pwchange d_pwclass d_pwexpire d_pwcomment
?T:xxx
: see if this is a pwd.h system
set pwd.h i_pwd
eval $inhdr

case "$i_pwd" in
$define)
 xxx=`./findhdr pwd.h`
 $cppstdin $cppflags $cppminus < $xxx >$$.h

 if $contains 'pw_quota' $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_pwquota
 eval $setvar

 if $contains 'pw_age' $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_pwage
```

```
 eval $setvar

 if $contains 'pw_change' $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_pwchange
 eval $setvar

 if $contains 'pw_class' $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_pwclass
 eval $setvar

 if $contains 'pw_expire' $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_pwexpire
 eval $setvar

 if $contains 'pw_comment' $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_pwcomment
 eval $setvar

 $rm -f $$.h
 ;;
*)
 val="$undef";
 set
 d_pwquota; eval $setvar
 set d_pwage; eval $setvar
 set d_pwchange; eval $setvar
 set d_pwclass; eval $setvar
 set d_pwexpire; eval $setvar
 set d_pwcomment; eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_pwd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sem.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sem: test d_semctl d_semget d_semop Setvar Findhdr osname
?MAKE: -pick add $@ %<
?S:d_sem:
?S: This variable conditionally defines the HAS_SEM symbol, which
?S: indicates that the entire sem*(2) library is present.
?S:.
?C:HAS_SEM:
?C: This symbol, if defined, indicates that the entire sem*(2) library is
?C: supported.
?C:.
?H:#$d_sem HAS_SEM  /**/
?H:.
?T:h_sem
?LINT:set d_sem
:
 see how much of the 'sem*(2)' library is present.
h_sem=true
echo " "
case "$d_semctl$d_semget$d_semop" in
*"$undef"*) h_sem=false;;
esac
case "$osname" in
freebsd)
   case "`ipcs 2>&1`" in
   "SVID messages"*"not configured"*)
 echo "Your $osname does not have the sem*(2) configured." >&4
       h_sem=false
 val="$undef"
 set semctl d_semctl
```

```
 eval $setvar
 set semget d_semget
 eval $setvar
 set semop d_semop
 eval $setvar
 ;;
   esac
   ;;
esac
: we could also check for sys/ipc.h ...
if $h_sem && $test `./findhdr sys/sem.h`; then
 echo "You have the full sem*(2) library." >&4
 val="$define"
else
 echo "You don't have the full sem*(2) library." >&4
 val="$undef"
fi
set d_sem
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sem.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Loc.U 14 2006-08-28 16:51:14Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Loc.U,v $
?RCS: Revision 3.0.1.10  1997/02/28  15:04:16  ram
?RCS: patch61: allow users to specify paths on the command line
?RCS: patch61: will now substitute cp for ln if not supported
?RCS:
?RCS: Revision 3.0.1.9  1995/09/25  09:11:24  ram
?RCS: patch59: commented the purpose of the #un-def directive
?RCS: patch59: abort Configure run when mandatory command is missing
?RCS:
?RCS: Revision 3.0.1.8  1995/07/25  13:40:40  ram
?RCS: patch56: now knows about
 OS/2 platforms
?RCS:
```

```
?RCS: Revision 3.0.1.7  1995/01/11  15:13:37  ram
?RCS: patch45: protected "sh -c" within backquotes for Linux and SGI
?RCS: patch45: added path lookup for the 'comm' program
?RCS:
?RCS: Revision 3.0.1.6  1994/10/29  15:56:14  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: be careful and guard against wildcard searching (ADO)
?RCS:
?RCS: Revision 3.0.1.5  1994/06/20  06:54:55  ram
?RCS: patch30: now locates find
?RCS:
?RCS: Revision 3.0.1.4  1994/05/13  15:18:15  ram
?RCS: patch27: added byacc to the trylist (ADO)
?RCS: patch27: lint lines reformatted (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/01/24  14:01:44  ram
?RCS: patch16: added metalint hint on changed PATH variable
?RCS:
?RCS: Revision 3.0.1.2  1993/12/15  08:16:52  ram
?RCS: patch15: now set _test variable when test is built-in
?RCS: patch15: fixed rare cases where echo is not needed
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  15:47:13  ram
?RCS: patch10: test program not always
 in /bin/test (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script "loc" which can be used to find out
?X: where in a list of directories something is.  It then uses loc to
?X: determine the location of commonly used programs.  It leaves loc sitting
?X: around for other Configure units to use, but arranges for its demise
?X: at the end of Configure.
?X:
?X: To add a new program to find, add it both to the ?MAKE: line and to either
?X: the loclist or trylist variable.
?X:
?X: I put startsh at the end of the dependency list, in order to avoid the
?X: loading of the spitshell unit before the instructions.
?X:
?MAKE:Loc awk ar bash bison byacc cat chgrp chmod chown \
 comm compress cp cpio cpp csh date echo egrep emacs expr find flex \
 gmake gzip grep inews ksh less line lint ln lp lpr ls mail mailx \
 make mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \
 shar sleep smail sort
```

```
 submit tail tar tbl tee test touch tr troff \
 uname uniq uuname vi zcat zip: eunicefix n c startsh Instruct sysroot
?MAKE: -pick weed $@ %<
?LINT:describe awk ar bash bison byacc cat chgrp chmod chown \
 comm compress cp cpio cpp csh date echo egrep emacs expr find flex \
 gmake gzip grep inews ksh less line lint ln lp lpr ls mail mailx \
 make mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \
 shar sleep smail sort submit tail tar tbl tee test touch tr troff \
 uname uniq uuname vi zcat zip
?V::pth loclist trylist
?F:./loc test_h
?T:thisthing thing xxx dir file say _test DJGPP
?LINT:change PATH _egrep _ln _make _less
?LINT:extern _exe
: find out where common programs are
echo " "
echo "Locating common programs..." >&4
cat <<EOSC >loc
$startsh
case \$# in
0) exit 1;;
esac
thing=\$1
shift
dflt=\$1
shift
for dir in \$*; do
 case "\$thing" in
 .)
 if test -d \$dir/\$thing; then
  echo \$dir
  exit 0
 fi
 ;;
 *)
?X: Be careful in case thing includes wildcards that might expand
 to multiple
?X: files.  Choose the last one.  This happens when searching for shared
?X: libraries with version numbers.  How to choose which one we want is
?X: probably an insoluble problem, in general.
?X: Some folks leave things like libc.so.orig around w/o read
?X: permission.  A -r test would handle that, but since ./loc is
?X: also used to find executables (which are installed w/o read
?X: permission on SCO ODT 3.0, we can't include the -r test.
?X: If you need to use an _exe that is different from .exe
?X: you need to set it in Head.U.
 for thisthing in \$dir/\$thing; do
  : just loop through to pick last item
```

```
 done
 if test -f \$thisthing; then
  echo \$thisthing
  exit 0
 elif test "X$_exe" != X -a -f \$thisthing$_exe; then
  echo \$thisthing
  exit 0
 elif test -f \$dir/\$thing.exe; then
  if test -n "$DJGPP"; then
   echo \$dir/\$thing.exe
  elif test "$eunicefix" != ":"; then
   : on Eunice apparently
   echo \$dir/\$thing
  fi
  exit 0
 fi
 ;;
 esac
done
echo \$dflt
exit
 1
EOSC
chmod +x loc
$eunicefix loc
loclist="
?awk:awk
?cat:cat
?chgrp:chgrp
?chmod:chmod
?chown:chown
?comm:comm
?cp:cp
?echo:echo
?expr:expr
?find:find
?grep:grep
?ls:ls
?mkdir:mkdir
?mv:mv
?rm:rm
?sed:sed
?sleep:sleep
?sort:sort
?tail:tail
?touch:touch
?tr:tr
?uniq:uniq
```

"
trylist="
?Mcc:Mcc
?ar:ar
?bash:bash
?bison:bison
?byacc:byacc
?compress:compress
?cpio:cpio
?cpp:cpp
?csh:csh
?date:date
?egrep:egrep
?emacs:emacs
?flex:flex
?gmake:gmake
?gzip:gzip
?inews:inews
?ksh:ksh
?less:less
?line:line
?lint:lint
?ln:ln
?lp:lp
?lpr:lpr
?mail:mail
?mailx:mailx
?make:make
?more:more
?nm:nm
?nroff:nroff
?perl:perl
?pg:pg
?pmake:pmake
?pr:pr
?rmail:rmail
?sendmail:sendmail
?shar:shar
?smail:smail
?submit:submit
?tar:tar
?tbl:tbl
?tee:tee
?test:test
?troff:troff
?uname:uname
?uuname:uuname
?vi:vi

```
?zcat:zcat
?zip:zip
"
?LINT:set awk ar bash bison byacc cat chgrp chmod chown \
 comm compress cp cpio cpp csh date echo emacs expr find flex \
 gmake gzip grep inews ksh line lint lp lpr ls mail mailx
 \
 mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \
 shar sleep smail sort submit tail tar tbl tee touch tr troff \
 uname uniq uuname vi zcat zip
pth=`echo $PATH | sed -e "s/$p_/ /g"`
pth="$pth $sysroot/lib $sysroot/usr/lib"
for file in $loclist; do
?X:
?X: Allow them to -Dmake=pmake on the command line for instance...
?X: If the file is not fully qualified, as in -Dmake=pmake, then we
?X: look the for the specified command (pmake here). If they say
?X: -Dmake=/sbin/make for instance, then we make sure the file
?X: exists, or we die...
?X:
 eval xxx=\$$file
 case "$xxx" in
 /*|?:[\\/]*)
  if test -f "$xxx"; then
   : ok
  else
   echo "WARNING: no $xxx -- ignoring your setting for $file." >&4
   xxx=`./loc $file $file $pth`
  fi
  ;;
 ") xxx=`./loc $file $file $pth`;;
 *) xxx=`./loc $xxx $xxx $pth`;;
 esac
 eval $file=$xxx$_exe
 eval _$file=$xxx
 case "$xxx" in
 /*)
  echo $file is in $xxx.
  ;;
?X: Under OS/2, we have PC-like paths
 ?:[\\/]*)
  echo $file is in $xxx.
  ;;
 *)
  echo
 "I don't know where '$file' is, and my life depends on it." >&4
  echo "Go find a public domain implementation or fix your PATH setting!" >&4
  exit 1
```

```
  ;;
 esac
done
echo " "
echo "Don't worry if any of the following aren't found..."
say=offhand
for file in $trylist; do
?X: Allow them to -Dmake=pmake on the command line for instance (see above)
 eval xxx=\$$file
 case "$xxx" in
 /*|?:[\\/]*)
  if test -f "$xxx"; then
   : ok
  else
   echo "WARNING: no $xxx -- ignoring your setting for $file." >&4
   xxx=`./loc $file $file $pth`
  fi
  ;;
 ") xxx=`./loc $file $file $pth`;;
 *) xxx=`./loc $xxx $xxx $pth`;;
 esac
 eval $file=$xxx$_exe
 eval _$file=$xxx
 case "$xxx" in
 /*)
  echo $file is in $xxx.
  ;;
?X: Under OS/2, we have PC-like paths
 ?:[\\/]*)
  echo $file is in $xxx.
  ;;
 *)
  echo "I don't see $file out there, $say."
  say=either
  ;;
 esac
done
case "$egrep" in
egrep)
 echo "Substituting grep for egrep."
 egrep=$grep
 _egrep=$grep
 ;;
esac
@if less
case "$less"
 in
") ;;
```

```
*) if $less -R </dev/null >/dev/null 2>&1; then
        echo "Substituting less -R for less."
        less="$less -R"
        _less=$less
 fi
 ;;
esac
@end
@if ln
case "$ln" in
ln)
 echo "Substituting cp for ln."
 ln=$cp
 _ln=$cp
 ;;
esac
@end
@if make || gmake
case "$make" in
make)
 case "$gmake" in
 gmake)
 echo "I can't find make or gmake, and my life depends on it." >&4
 echo "Go find a public domain implementation or fix your PATH setting!" >&4
 exit 1
 ;;
 esac
 ;;
esac
case "$gmake" in
gmake) ;;
*) # We can't have osname yet.
 if test -f "/system/gnu_library/bin/ar.pm"; then # Stratus VOS
  # Assume that gmake, if found, is definitely GNU make
  # and prefer it over the system make.
  echo "Substituting gmake for make."
  make=$gmake
  _make=$gmake
 fi
 ;;
esac
@end
case "$test" in
test)
 echo "Hopefully test is built into your sh."
 ;;
*)
 if `sh -c "PATH= test true" >/dev/null 2>&1`; then
```

```
  echo "Using the test built into your sh."
?X:
?X: We need to set both test
 and _test, since Oldconfig.U will use the _test
?X: value to systematically restore computed paths, which may be wrong if
?X: we choose to load an old config.sh generated on another platform.
?X:
  test=test
  _test=test
 fi
 ;;
esac
?LINT:change n c
case "$echo" in
echo)
 echo "Hopefully echo is built into your sh."
 ;;
?X: For those rare cases where we don't need $echo...
") ;;
*)
 echo " "
echo "Checking compatibility between $echo and builtin echo (if any)..." >&4
 $echo $n "hi there$c" >foo1
 echo $n "hi there$c" >foo2
 if cmp foo1 foo2 >/dev/null 2>&1; then
  echo "They are compatible.  In fact, they may be identical."
 else
  case "$n" in
  '-n') n=" c='\c';;
  *) n='-n' c=";;
  esac
  cat <<FOO
They are not compatible!  You are probably running ksh on a non-USG system.
I'll have to use $echo instead of the builtin, since Bourne shell doesn't
have echo built in and we may have to run some Bourne shell scripts.  That
means I'll have to use '$n$c' to suppress newlines now.
  Life is ridiculous.

FOO
  $echo $n "The star should be here-->$c"
  $echo "*"
 fi
 $rm -f foo1 foo2
 ;;
esac

?X: The next part is irrelevant to the real process
# This question was auctioned at YAPC::Europe-2007 in Vienna
```

```
# I never promised you could answer it. I only auctioned the question.
cat <<FOO
The following message is sponsored by

 Dresden.pm<--The stars should be here.

Dear Perl user, system administrator or package
maintainer, the Perl community sends greetings to
you. Do you (emblematical) greet back [Y/n]? n

FOO
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Loc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: floatsize.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:17:09  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:floatsize: cat rm Myread +cc +ccflags
?MAKE: -pick add $@ %<
?S:floatsize:
?S: This variable contains the value of the FLOATSIZE symbol, which
?S: indicates to the C program how many bytes there are in a float.
?S:.
?C:FLOATSIZE:
?C: This symbol contains the size of
 a float, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define FLOATSIZE $floatsize  /**/
?H:.
?F:!try
```

```
: check for length of float
echo " "
case "$floatsize" in
")
 echo "Checking to see how big your floating point numbers are..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
 printf("%d\n", sizeof(float));
}
EOCP
 if $cc $ccflags -o try try.c >/dev/null 2>&1 ; then
  dflt=`./try`
 else
  dflt='4'
  echo "(I can't seem to compile the test program.  Guessing...)"
 fi
 ;;
*)
 dflt="$floatsize"
 ;;
esac
rp="What is the size of a floating point number (in bytes)?"
. ./myread
floatsize="$ans"
$rm -f try.c try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/floatsize.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cppstdin.U,v $
?RCS: Revision 3.0.1.4  1994/10/29  16:08:34  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.3  1994/01/24  14:05:38  ram
```

```
?RCS: patch16: comment for CPPLAST was missing
?RCS:
?RCS: Revision 3.0.1.2  1993/12/15  08:18:58  ram
?RCS: patch15: new variables cpprun and cpplast, guaranteed wrapper-free
?RCS: patch15: cppstdin now tries to use cc, even at the cost of a wrapper
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:00:53  ram
?RCS: patch6:
 remove wrapper when not actually used
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:38  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:cppstdin cppminus cpprun cpplast: contains test Myread Oldconfig Loc \
 cpp +cc rm hint osname gccversion startsh eunicefix
?MAKE: -pick add $@ %<
?S:cppstdin:
?S: This variable contains the command which will invoke the C
?S: preprocessor on standard input and put the output to stdout.
?S: It is primarily used by other Configure units that ask about
?S: preprocessor symbols.
?S:.
?S:cppminus:
?S: This variable contains the second part of the string which will invoke
?S: the C preprocessor on the standard input and produce to standard
?S: output.  This variable will have the value "-" if cppstdin needs
?S: a minus to specify standard input, otherwise the value is "".
?S:.
?S:cpprun:
?S: This variable contains the command which will invoke a C preprocessor
?S: on standard input and put the output to stdout. It is guaranteed not
?S: to be a wrapper
 and may be a null string if no preprocessor can be
?S: made directly available. This preprocessor might be different from the
?S: one used by the C compiler. Don't forget to append cpplast after the
?S: preprocessor options.
?S:.
?S:cpplast:
?S: This variable has the same functionality as cppminus, only it applies to
?S: cpprun and not cppstdin.
?S:.
?C:CPPSTDIN:
?C: This symbol contains the first part of the string which will invoke
?C: the C preprocessor on the standard input and produce to standard
?C: output.  Typical value of "cc -E" or "/lib/cpp", but it can also
?C: call a wrapper. See CPPRUN.
?C:.
?C:CPPMINUS:
```

```
?C: This symbol contains the second part of the string which will invoke
?C: the C preprocessor on the standard input and produce to standard
?C: output.  This symbol will have the value "-" if CPPSTDIN needs a minus
?C: to specify standard input, otherwise the value is "".
?C:.
?C:CPPRUN:
?C: This symbol contains the string which will invoke a C preprocessor on
?C: the
 standard input and produce to standard output. It needs to end
?C: with CPPLAST, after all other preprocessor flags have been specified.
?C: The main difference with CPPSTDIN is that this program will never be a
?C: pointer to a shell wrapper, i.e. it will be empty if no preprocessor is
?C: available directly to the user. Note that it may well be different from
?C: the preprocessor used to compile the C program.
?C:.
?C:CPPLAST:
?C: This symbol is intended to be used along with CPPRUN in the same manner
?C: symbol CPPMINUS is used with CPPSTDIN. It contains either "-" or "".
?C:.
?H:#define CPPSTDIN "$cppstdin"
?H:#define CPPMINUS "$cppminus"
?H:#define CPPRUN "$cpprun"
?H:#define CPPLAST "$cpplast"
?H:.
?F:cppstdin !testcpp.out !testcpp.c
?T:wrapper x_cpp x_minus ok
: see how we invoke the C preprocessor
echo " "
echo "Now, how can we feed standard input to your C preprocessor..." >&4
cat <<'EOT' >testcpp.c
#define ABC abc
#define XYZ xyz
ABC.XYZ
EOT
cd ..
if $test ! -f cppstdin;
 then
 echo "$startsh" >cppstdin
if $test "X$osname" = "Xaix" -a "X$gccversion" = X; then
?X: AIX cc -E doesn't show the absolute headerfile
?X: locations but we'll cheat by using the -M flag.
 echo 'cat >.$$.c; rm -f .$$.u; "$cc" ${1+"$@"} -M -c .$$.c 2>/dev/null; \
 test -s .$$.u && \
 awk """$2 ~ /\.h$/ { print "# 0 \""$2"\"" }""" .$$.u; \
 rm -f .$$.o .$$.u; "$cc" -E ${1+"$@"} .$$.c; rm .$$.c' >> cppstdin
else
 echo 'cat >.$$.c; "$cc" -E ${1+"$@"} .$$.c; rm .$$.c' >>cppstdin
fi; else
```

```
 echo "Keeping your $hint cppstdin wrapper."
fi
chmod 755 cppstdin
$eunicefix cppstdin
wrapper=`pwd`/cppstdin
ok='false'
cd UU

?X:
?X: We'll run the cpp tests again if we don't have any valid C preprocessor
?X: yet or don't know how to proceed without a wrapper (in which case cpprun
?X: is empty and that's really annoying...)
?X:
if $test "X$cppstdin" != "X" && \
 $cppstdin $cppminus <testcpp.c >testcpp.out 2>&1 && \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1
then
 echo "You used to use
 $cppstdin $cppminus so we'll use that again."
 case "$cpprun" in
 ") echo "But let's see if we can live without a wrapper..." ;;
 *)
  if $cpprun $cpplast <testcpp.c >testcpp.out 2>&1 && \
   $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1
  then
   echo "(And we'll use $cpprun $cpplast to preprocess directly.)"
   ok='true'
  else
   echo "(However, $cpprun $cpplast does not work, let's see...)"
  fi
  ;;
 esac
else
 case "$cppstdin" in
 ") ;;
 *)
  echo "Good old $cppstdin $cppminus does not seem to be of any help..."
  ;;
 esac
fi

if $ok; then
 : nothing
elif echo 'Maybe """$cc"' -E" will work...'; \
 $cc -E <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Yup, it does."
 x_cpp="$cc -E"
```

```
 x_minus='';
elif echo 'Nope...maybe "'"$cc"' -E -" will work...'; \
 $cc -E - <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Yup, it does."
 x_cpp="$cc -E"
 x_minus='-';
elif echo 'Nope...maybe "'"$cc"'
 -P" will work...'; \
 $cc -P <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Yipee, that works!"
 x_cpp="$cc -P"
 x_minus='';
elif echo 'Nope...maybe "'"$cc"' -P -" will work...'; \
 $cc -P - <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "At long last!"
 x_cpp="$cc -P"
 x_minus='-';
elif echo 'No such luck, maybe "'$cpp'" will work...'; \
 $cpp <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "It works!"
 x_cpp="$cpp"
 x_minus='';
elif echo 'Nixed again...maybe "'$cpp' -" will work...'; \
 $cpp - <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Hooray, it works!  I was beginning to wonder."
 x_cpp="$cpp"
 x_minus='-';
elif echo 'Uh-uh.  Time to get fancy.  Trying a wrapper...'; \
 $wrapper <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 x_cpp="$wrapper"
 x_minus=''
 echo
 "Eureka!"
else
 dflt=''
 rp="No dice.  I can't find a C preprocessor.  Name one:"
 . ./myread
 x_cpp="$ans"
 x_minus=''
 $x_cpp <testcpp.c >testcpp.out 2>&1
 if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
  echo "OK, that will do." >&4
```

```
 else
echo "Sorry, I can't get that to work.  Go find one and rerun Configure." >&4
  exit 1
 fi
fi

case "$ok" in
false)
 cppstdin="$x_cpp"
 cppminus="$x_minus"
 cpprun="$x_cpp"
 cpplast="$x_minus"
?X:
?X: If /lib/cpp is used, try using a wrapper to increase our chances to have
?X: the C compiler and our $cppstdin agree on the same symbols... However,
?X: since cpprun is guaranteed not to be a wrapper, we must clear it if the
?X: only preprocessor we found was a wrapper, with all our luck...
?X:
 set X $x_cpp
 shift
 case "$1" in
 "$cpp")
  echo "Perhaps can we force $cc -E using a wrapper..."
  if $wrapper <testcpp.c >testcpp.out 2>&1; \
   $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1
  then
   echo "Yup, we can."
   cppstdin="$wrapper"
   cppminus=";
  else
   echo
 "Nope, we'll have to live without it..."
  fi
  ;;
 esac
 case "$cpprun" in
 "$wrapper")
  cpprun="
  cpplast="
  ;;
 esac
 ;;
esac

case "$cppstdin" in
"$wrapper"|'cppstdin') ;;
*) $rm -f $wrapper;;
esac
```

```
$rm -f testcpp.c testcpp.out
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/cppstdin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_quadmath: Inhdr
?MAKE: -pick add $@ %<
?S:i_quadmath:
?S: This variable conditionally defines I_QUADMATH, which indicates
?S: to the C program that it should include <quadmath.h>.
?S:.
?C:I_QUADMATH:
?C: This symbol, if defined, indicates that <quadmath.h> exists and
?C: should be included.
?C:.
?H:#$i_quadmath I_QUADMATH  /**/
?H:.
?LINT:set i_quadmath
: see if this is a quadmath.h system
set quadmath.h i_quadmath
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_quadmath.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2009 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getnameinfo: Inlibc
?MAKE: -pick add $@ %<
?S:d_getnameinfo:
?S: This variable conditionally defines the HAS_GETNAMEINFO symbol,
?S: which indicates to the C program that the getnameinfo() function
?S: is available.
?S:.
?C:HAS_GETNAMEINFO:
?C: This symbol, if defined, indicates that the getnameinfo() function
```

```
?C: is available for use.
?C:.
?H:#$d_getnameinfo HAS_GETNAMEINFO  /**/
?H:.
?LINT:set d_getnameinfo
: see if getnameinfo exists
set getnameinfo d_getnameinfo
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getnameinfo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_waitpid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_waitpid.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_waitpid: Inlibc
?MAKE: -pick add $@ %<
?S:d_waitpid:
?S: This variable conditionally defines HAS_WAITPID if waitpid() is
?S: available to wait for child process.
?S:.
?C:HAS_WAITPID (WAITPID):
?C: This symbol, if defined, indicates that the waitpid routine is
?C: available to wait for child process.
?C:.
?H:#$d_waitpid HAS_WAITPID /**/
?H:.
?LINT:set
 d_waitpid
: see if waitpid exists
set waitpid d_waitpid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/dist/U/d_waitpid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: AAAAA.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: AAAAA.U,v $
?RCS: Revision 3.0.1.4  1994/06/20  06:50:26  ram
?RCS: patch30: changes from Jarkko Hietaniemi are tagged with JHI
?RCS:
?RCS: Revision 3.0.1.3  1994/05/06  14:01:39  ram
?RCS: patch23: initials for Wayne Davison are now WED
?RCS: patch23: added initials for new unit contributor Andy Dougherty
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:01:09  ram
?RCS: patch16: make metalint shut up on special unit definition for All target
?RCS:
?RCS: Revision
 3.0.1.1  1993/09/13  15:43:57  ram
?RCS: patch10: documents initials used for Wayne Davison's contributions
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this file is to supply the head of the Makefile created
?X: by metaconfig.  For this reason it must be first in alphabetical order.
?X: The leading '+' in front of the unit name is a hint for metalint, since
?X: the use of that special unit name as a "made" unit is legitimate here.
?X:
?MAKE:+All: Finish
?X:
?X: Throughout the units, the following initials are used to identify comments:
?X:
?X:  HMS: Harlan Stenn
?X:  RAM: Raphael Manfredi
?X:  WED: Wayne Davison (was WAD by mistake--RAM)
?X:  ADO: Andy Dougherty
?X:  JHI: Jarkko Hietaniemi
?X:
?X: Agreed, this is a weird place to document it, but I couldn't find a better
```

```
?X: place to do so. I've bet on the curiosity of users, who would probably
?X: want to know what's in this strangely-named file--RAM.

Found
 in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-
5.34.0/dist/U/AAAAA.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: vendorhtml1dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorhtml1dir.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorhtml1dir vendorhtml1direxp installvendorhtml1dir: html1dir Getfile \
 Setprefixvar Oldconfig Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorhtml1dir:
?S: This variable contains the name of the directory for html
?S: pages.  It may have a ~ on the front.
?S: The standard distribution will put nothing in this
 directory.
?S: Vendors who distribute perl may wish to place their own
?S: html pages in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorhtml1direxp:
?S: This variable is the ~name expanded version of vendorhtml1dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorhtml1dir="
?S:installvendorhtml1dir:
?S: This variable is really the same as vendorhtml1direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
```

```
?LINT:set installvendorhtml1dir
: Set the vendorhtml1dir variables
case "$vendorprefix" in
") vendorhtml1dir="
 vendorhtml1direxp="
 ;;
*) : determine where vendor-supplied html pages go.
 : There is no standard location, so try to copy the previously-selected
 : directory structure for the core html pages.
 : XXX Better default suggestions would be welcome.
 case "$vendorhtml1dir"
 in
 ") dflt=`echo "$html1dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
 *) dflt=$vendorhtml1dir ;;
 esac
 case "$dflt" in
 "|' ') dflt=none ;;
 esac
 fn=dn+~
 rp='Pathname for the vendor-supplied html pages?'
 . ./getfile
 vendorhtml1dir="$ans"
 vendorhtml1direxp="$ansexp"
 ;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorhtml1dir" = "X" && vendorhtml1dir=' '
prefixvar=vendorhtml1dir
. ./installprefix
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/vendorhtml1dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Thomas Neumann <tom@smart.bo.open.de>
?RCS:
?RCS: $Log: Findhdr.U,v $
```

```
?RCS: Revision 3.0.1.2  1994/10/29  15:53:08  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:03:56  ram
?RCS: patch23: cppminus must be after other cppflags, not before
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a findhdr script which is used to locate the header
?X: files
 in $usrinc or other stranger places using cpp capabilities. The
?X: script is given an include file base name, like 'stdio.h' or 'sys/file.h'
?X: and it returns the full path of the include file and a zero status or an
?X: empty string with an error status if the file could not be located.
?X:
?MAKE:Findhdr: grep test tr rm +usrinc awk cat startsh \
 cppstdin cppminus +cppflags eunicefix osname
?MAKE: -pick add $@ %<
?LINT:define fieldn
?S:fieldn:
?S: This variable is used internally by Configure. It contains the position
?S: of the included file name in cpp output. That is to say, when cpp
?S: pre-processes a #include <file> line, it replaces it by a # line which
?S: contains the original position in the input file and the full name of
?S: included file, between "quotes".
?S:.
?V:fieldn
?F:./findhdr !fieldn
?T:cline pos wanted name awkprg cppfilter testaccess status usrincdir
: determine filename position in cpp output
echo " "
echo "Computing filename position in cpp output for #include
 directives..." >&4
echo '#include <stdio.h>' > foo.c
case "$osname" in
vos)
 testaccess=-e
?X: VOS: path component separator is >
 cppfilter="tr '\\\\>' '/' |"
 ;;
*)
 testaccess=-r
 cppfilter="
 ;;
esac
$cat >fieldn <<EOF
```

```
$startsh
$cppstdin $cppflags $cppminus <foo.c 2>/dev/null | \
$grep '^[  ]*#.*stdio\.h' | \
while read cline; do
 pos=1
 set \$cline
 while $test \$# -gt 0; do
  if $test $testaccess \`echo \$1 | $tr -d ""\`; then
   echo "\$pos"
   exit 0
  fi
  shift
  pos=\`expr \$pos + 1\`
 done
done
EOF
chmod +x fieldn
fieldn=`./fieldn`
$rm -f foo.c fieldn
case $fieldn in
") pos='???';;
1) pos=first;;
2) pos=second;;
3) pos=third;;
*) pos="${fieldn}th";;
esac
echo "Your cpp writes the filename in the $pos field of the line."

?X: To locate a header file, we cannot simply check for $usrinc/file.h, since
?X: some machine have the headers in weird places and our only hope is that
?X: the C pre-processor will know how to find those headers. Thank you NexT!
: locate header file
$cat
 >findhdr <<EOF
$startsh
wanted=\$1
name=''
for usrincdir in $usrinc; do
 if test -f \$usrincdir/\$wanted; then
  echo "\$usrincdir/\$wanted"
  exit 0
 fi
done
awkprg='{ print \$$fieldn }'
echo "#include <\$wanted>" > foo\$\$.c
$cppstdin $cppminus $cppflags < foo\$\$.c 2>/dev/null | \
$cppfilter $grep "^[  ]*#.*\$wanted" | \
while read cline; do
```

```
 name=\`echo \$cline | $awk "\$awkprg" | $tr -d ""\`
 case "\$name" in
 *[/\\\\]\$wanted) echo "\$name"; exit 1;;
 *[\\\\/]\$wanted) echo "\$name"; exit 1;;
 *) exit 2;;
 esac
done
?X: status = 0: grep returned 0 lines, case statement not executed
?X: status = 1: headerfile found
?X: status = 2: while loop executed, no headerfile found
status=\$?
$rm -f foo\$\$.c
if test \$status -eq 1; then
 exit 0
fi
exit 1
EOF
chmod +x findhdr
$eunicefix findhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Findhdr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libnm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libnm.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:08:26  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libnm: test Loc libpth _a
?MAKE: -pick add $@ %<
?S:libnm:
?S: This variable contains the argument to pass to the loader in order
?S: to get the new math library routines.  If there is no new math
?S: library, it is null.
```

```
?S:.
?T:ans
?O:
 use libswanted='-lnm' instead (see libs.U).
: see if we should include -lnm
echo " "
if $test -r /usr/lib/libnm$_a || $test -r /usr/local/lib/libnm$_a ; then
 echo "New math library found." >&4
 libnm='-lnm'
else
 ans=`./loc libnm$_a x $libpth`
 case "$ans" in
 x)
  echo "No nm library found--the normal math library will have to do." >&4
  libnm=''
  ;;
 *)
  echo "New math library found in $ans." >&4
  libnm="$ans"
  ;;
 esac
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/libnm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Options.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Options.U,v $
?RCS: Revision 3.0.1.7  1997/02/28  15:08:15  ram
?RCS: patch61: optdef.sh now starts with a "startsh"
?RCS: patch61: moved some code from Head.U
?RCS:
?RCS: Revision 3.0.1.6  1995/09/25  09:14:46  ram
?RCS: patch59: protected option parsing code against 'echo -*' option failure
?RCS:
?RCS: Revision 3.0.1.5  1995/05/12  12:04:52  ram
?RCS: patch54: added -K option for experts
```

```
?RCS:
?RCS: Revision 3.0.1.4  1995/01/30  14:27:52  ram
?RCS:
 patch49: this unit now exports file optdef.sh, not a variable
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:19:00  ram
?RCS: patch45: new -O option allowing -D and -U to override config.sh settings
?RCS: patch45: file optdef.sh is no longer removed after sourcing
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  15:58:06  ram
?RCS: patch36: ensure option definition file is removed before appending
?RCS: patch36: protect variable definitions with spaces in them
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:55:44  ram
?RCS: patch30: now uses new me symbol to tag error messages
?RCS: patch30: new -D and -U options to define/undef symbols (JHI)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Command line parsing. It is really important that the variables used here
?X: be not listed in the MAKE line, or they will be saved in config.sh and
?X: loading this file to fetch default answers would clobber the values set
?X: herein.
?X:
?MAKE:Options:
 startsh
?MAKE: -pick wipe $@ %<
?V:reuseval alldone error realsilent silent extractsh fastread \
 knowitall: config_sh
?T:arg argn symbol config_arg0 config_args config_argc xxx yyy zzz uuu
?T:args_exp args_sep arg_exp ccflags
?F:!Configure
?F:./optdef.sh ./cmdline.opt ./posthint.sh ./cmdl.opt
: Save command line options in file UU/cmdline.opt for later use in
: generating config.sh.
?X: This temporary file will be read by Oldsym.U.  I used a temporary
?X: file to preserve all sorts of potential command line quotes and
?X: also because we don't know in advance how many variables we'll
?X: need, so I can't actually declare them on the MAKE line.
?X: The config_args variable won't be quite correct if Configure is
?X: fed something like    ./Configure -Dcc="gcc -B/usr/ccs/bin/"
?X: since the quotes are gone by the time we see them.  You'd have to
?X: reconstruct the command line from the config_arg? lines, but since
?X: I don't imagine anyone actually having to do that, I'm not going
?X:
```

```
 to worry too much.
cat > cmdline.opt <<EOSH
: Configure command line arguments.
config_arg0='$0'
config_args='$*'
config_argc=$#
EOSH
argn=1
args_exp=''
args_sep=''
for arg in "$@"; do
 cat >>cmdline.opt <<EOSH
config_arg$argn='$arg'
EOSH
?X: Extreme backslashitis: replace each ' by '''''
 cat <<EOC | sed -e "s/'/'''''''''''''/g" > cmdl.opt
$arg
EOC
 arg_exp=`cat cmdl.opt`
 args_exp="$args_exp$args_sep'$arg_exp'"
 argn=`expr $argn + 1`
 args_sep=' '
done
?X: args_exp is good for restarting self: eval "set X $args_exp"; shift; $0 "$@"
?X: used by hints/os2.sh in Perl, for instance
rm -f cmdl.opt

: produce awk script to parse command line options
cat >options.awk <<'EOF'
BEGIN {
 optstr = "A:dD:eEf:hKOrsSU:V"; # getopt-style specification

 len = length(optstr);
 for (i = 1; i <= len; i++) {
  c = substr(optstr, i, 1);
?X: some older awk's do not have the C ?: construct
  if (i < len) a = substr(optstr, i + 1, 1); else a = "";
  if (a == ":") {
   arg[c] = 1;
   i++;
  }
  opt[c]
 = 1;
 }
}
{
 expect = 0;
 str = $0;
```

```
 if (substr(str, 1, 1) != "-") {
  printf("'%s'\n", str);
  next;
 }
 len = length($0);
 for (i = 2; i <= len; i++) {
  c = substr(str, i, 1);
  if (!opt[c]) {
   printf("-%s\n", substr(str, i));
   next;
  }
  printf("-%s\n", c);
  if (arg[c]) {
   if (i < len)
    printf("'%s'\n", substr(str, i + 1));
   else
    expect = 1;
   next;
  }
 }
}
END {
 if (expect)
  print "?";
}
EOF

: process the command line options
?X: Use "$@" to keep arguments with spaces in them from being split apart.
?X: For the same reason, awk will output quoted arguments and the final eval
?X: removes them and sets a proper $* array. An 'X' is prepended to each
?X: argument before being fed to echo to guard against 'echo -x', where -x
?X: would be understood as an echo option! It is removed before feeding awk.
set X `for arg in "$@"; do echo "X$arg"; done |
 sed -e s/X// | awk -f options.awk`
eval "set $*"
shift
rm -f options.awk

: set up default values
fastread=''
reuseval=false
config_sh=''
alldone=''
error=''
silent=''
extractsh=''
knowitall=''
```

```
rm
 -f optdef.sh posthint.sh
cat >optdef.sh <<EOS
$startsh
EOS

?X:
?X: Given that we now have the possibility to execute Configure remotely
?X: thanks to the new src.U support, we have to face the possibility
?X: of having to ask where the source lie, which means we need the Myread.U
?X: stuff and possibly other things that might echo something on the
?X: screen...
?X:
?X: That's not pretty, and might be confusing in 99% of the time. So...
?X: We introduce a new realsilent variable which is set when -s is given,
?X: and we force silent=true if -S is supplied. The Extractall.U unit
?X: will then undo the >&4 redirection based on the value of the
?X: realsilent variable... -- RAM, 18/93/96
?X:

: option parsing
while test $# -gt 0; do
 case "$1" in
 -d) shift; fastread=yes;;
 -e) shift; alldone=cont;;
 -f)
  shift
  cd ..
  if test -r "$1"; then
   config_sh="$1"
  else
   echo "$me: cannot read config file $1."
 >&2
   error=true
  fi
  cd UU
  shift;;
 --help|\
 -h) shift; error=true;;
 -r) shift; reuseval=true;;
 -s) shift; silent=true; realsilent=true;;
 -E) shift; alldone=exit;;
 -K) shift; knowitall=true;;
 -O) shift;;
 -S) shift; silent=true; extractsh=true;;
 -D)
  shift
  case "$1" in
```

```
 *=)
  echo "$me: use '-U symbol=', not '-D symbol='." >&2
  echo "$me: ignoring -D $1" >&2
  ;;
 *=*) echo "$1" | \
   sed -e "s/'/'\''\''/g" -e "s/=\(.*\)/='\1'/" >> optdef.sh;;
 *) echo "$1='define'" >> optdef.sh;;
 esac
 shift
 ;;
-U)
 shift
 case "$1" in
 *=) echo "$1" >> optdef.sh;;
 *=*)
  echo "$me: use '-D symbol=val', not '-U symbol=val'." >&2
  echo "$me: ignoring -U $1" >&2
  ;;
 *) echo "$1='undef'" >> optdef.sh;;
 esac
 shift
 ;;
-A)
    shift
    xxx=''
    yyy="$1"
    zzz=''
    uuu=undef
    case "$yyy" in
          *=*) zzz=`echo "$yyy"|sed 's!=.*!!'`
               case "$zzz" in
               *:*) zzz='' ;;
               *)   xxx=append

               zzz=' '`echo "$yyy"|sed 's!^[^=]*=!!'`
                    yyy=`echo "$yyy"|sed 's!=.*!!'` ;;
               esac
               ;;
          esac
          case "$xxx" in
          '')  case "$yyy" in
               *:*) xxx=`echo "$yyy"|sed 's!:.*!!'`
                    yyy=`echo "$yyy"|sed 's!^[^:]*:!!'`
                    zzz=`echo "$yyy"|sed 's!^[^=]*=!!'`
                    yyy=`echo "$yyy"|sed 's!=.*!!'` ;;
               *)   xxx=`echo "$yyy"|sed 's!:.*!!'`
                    yyy=`echo "$yyy"|sed 's!^[^:]*:!!'` ;;
               esac
```

```
            ;;
        esac
    case "$xxx" in
    append)
  echo "$yyy=\"\${$yyy}$zzz\"" >> posthint.sh ;;
    clear)
  echo "$yyy=""   >> posthint.sh ;;
    define)
        case "$zzz" in
  ") zzz=define ;;
  esac
  echo "$yyy='$zzz'"  >> posthint.sh ;;
    eval)
  echo "eval \"$yyy=$zzz\"" >> posthint.sh ;;
    prepend)
  echo "$yyy=\"$zzz\${$yyy}\"" >> posthint.sh ;;
    undef)

      case "$zzz" in
  ") zzz="$uuu" ;;
  esac
  echo "$yyy=$zzz"  >> posthint.sh ;;
        *)  echo "$me: unknown -A command '$xxx', ignoring -A $1" >&2 ;;
    esac
    shift
    ;;
 -V) echo "$me generated by metaconfig <VERSION> PL<PATCHLEVEL>." >&2
    exit 0;;
 --) break;;
 -*) echo "$me: unknown option $1" >&2; shift; error=true;;
 *) break;;
 esac
done

case "$error" in
true)
 cat >&2 <<EOM
Usage: $me [-dehrsEKOSV] [-f config.sh] [-D symbol] [-D symbol=value]
            [-U symbol] [-U symbol=] [-A command:symbol...]
 -d : use defaults for all answers.
 -e : go on without questioning past the production of config.sh.
 -f : specify an alternate default configuration file.
 -h : print this help message and exit (with an error status).
 -r : reuse C symbols value if possible (skips costly nm extraction).
 -s : silent mode, only echoes questions and essential information.
 -D : define symbol to have some value:
      -D symbol            symbol gets the
```

```
 value 'define'
        -D symbol='some value'   symbol is set to 'some value'
      common used examples (see INSTALL for more info):
        -Duse64bitint            use 64bit integers
        -Duse64bitall            use 64bit integers and pointers
        -Dusethreads             use thread support
        -Dinc_version_list=none  do not include older perl trees in @INC
        -DEBUGGING=none          DEBUGGING options
        -Dcc=gcc                 choose your compiler
        -Dprefix=/opt/perl5      choose your destination
 -E : stop at the end of questions, after having produced config.sh.
 -K : do not use unless you know what you are doing.
 -O : ignored for backward compatibility
 -S : perform variable substitutions on all .SH files (can mix with -f)
 -U : undefine symbol:
        -U symbol    symbol gets the value 'undef'
        -U symbol=   symbol gets completely empty
      e.g.:  -Uversiononly
 -A : manipulate symbol after the platform specific hints
 have been applied:
        -A append:symbol=value   append value to symbol
        -A symbol=value          like append:, but with a separating space
        -A define:symbol=value   define symbol to have value
        -A clear:symbol          define symbol to be ''
        -A define:symbol         define symbol to be 'define'
        -A eval:symbol=value     define symbol to be eval of value
        -A prepend:symbol=value  prepend value to symbol
        -A undef:symbol          define symbol to be 'undef'
        -A undef:symbol=         define symbol to be ''
      e.g.:  -A prepend:libswanted='cl pthread '
             -A ccflags=-DSOME_MACRO
 -V : print version number and exit (with a zero status).
EOM
 exit 1
 ;;
esac

?X:
?X: Unless they specified either -S or both -d and -e/E, make sure we're
?X: running interactively, i.e. attached to a terminal. Moved from Head.U to
?X: be able to handle batch configurations...
?X:
?X: We have to hardwire the Configure name and
 cannot use $me, since if they
?X: said 'sh <Configure', then $me is 'sh'...
?X:
: Sanity checks
case "$fastread$alldone" in
```

```
yescont|yesexit) ;;
*)
 case "$extractsh" in
 true) ;;
 *)
  if test ! -t 0; then
   echo "Say 'sh Configure', not 'sh <Configure'"
   exit 1
  fi
  ;;
 esac
 ;;
esac

?X: In silent mode, the standard output is closed. Questions are asked by
?X: outputing on file descriptor #4, which is the original stdout descriptor.
?X: This filters out all the "junk", since all the needed information is written
?X: on #4. Note that ksh will not let us redirect output if the file descriptor
?X: has not be defined yet, unlike sh, hence the following line...--RAM.
exec 4>&1
case "$silent" in
true) exec 1>/dev/null;;
esac

: run the defines and the undefines, if any, but leave the file out there...
touch optdef.sh
?X: -q is POSIX
?X: It does not work in SysV (solaris) or old BSD greps.
grep '\\' optdef.sh >/dev/null 2>&1
if test $? = 0; then
   echo "Configure does not support \\
 in -D arguments"
   exit 1
fi
. ./optdef.sh
: create the posthint manipulation script and leave the file out there...
?X: this file will be perused by Oldconfig.U
touch posthint.sh
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Options.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getprotby.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getpbyname d_getpbynumber: Inlibc
?MAKE: -pick add $@ %<
?S:d_getpbyname:
?S: This variable conditionally defines the HAS_GETPROTOBYNAME
?S: symbol, which indicates to the C program that the
?S: getprotobyname() routine is available to look up protocols
?S: by their name.
?S:.
?S:d_getpbynumber:
?S: This variable conditionally defines the HAS_GETPROTOBYNUMBER
?S: symbol, which indicates to the C program that the
?S: getprotobynumber() routine is available to look up protocols
?S: by their number.
?S:.
?C:HAS_GETPROTOBYNAME:
?C: This symbol, if defined, indicates that the getprotobyname()
?C: routine is available to look up protocols by their name.
?C:.
?C:HAS_GETPROTOBYNUMBER:
?C: This
 symbol, if defined, indicates that the getprotobynumber()
?C: routine is available to look up protocols by their number.
?C:.
?H:#$d_getpbyname HAS_GETPROTOBYNAME  /**/
?H:#$d_getpbynumber HAS_GETPROTOBYNUMBER  /**/
?H:.
?LINT:set d_getpbyname d_getpbynumber
: Optional checks for getprotobyname and getprotobynumber

@if d_getpbyname || HAS_GETPROTOBYNAME
: see if getprotobyname exists
set getprotobyname d_getpbyname
eval $inlibc
@end

@if d_getpbynumber || HAS_GETPROTOBYNUMBER
: see if getprotobynumber exists
set getprotobynumber d_getpbynumber
eval $inlibc
@end
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_getprotby.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getservprotos.U,v $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_getservprotos : Hasproto i_netdb
?MAKE: -pick add $@ %<
?S:d_getservprotos:
?S: This variable conditionally defines the HAS_GETSERV_PROTOS symbol,
?S: which indicates to the C program that <netdb.h> supplies
?S: prototypes for the various getserv*() functions.
?S: See also netdbtype.U for probing for various netdb types.
?S:.
?C:HAS_GETSERV_PROTOS:
?C: This symbol, if defined, indicates that <netdb.h> includes
?C: prototypes for getservent(), getservbyname(), and
?C: getservbyaddr().  Otherwise,
 it is up to the program to guess
?C: them.  See netdbtype.U for probing for various Netdb_xxx_t types.
?C:.
?H:#$d_getservprotos HAS_GETSERV_PROTOS /**/
?H:.
?LINT:set d_getservprotos
: see if prototypes for various getservxxx netdb.h functions are available
echo " "
set d_getservprotos getservent $i_netdb netdb.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/d_getservprotos.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: installprefix.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: installprefix.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?RCS:
?MAKE:installprefix installprefixexp: Getfile Loc \
 Oldconfig afs cat package prefix
?MAKE: -pick add $@ %<
?S:installprefix:
?S: This variable holds the name of the directory below which
?S: "make install" will install the package.  For most users, this
?S: is the same
 as prefix.  However, it is useful for
?S: installing the software into a different (usually temporary)
?S: location after which it can be bundled up and moved somehow
?S: to the final location specified by prefix.
?S:.
?S:installprefixexp:
?S: This variable holds the full absolute path of installprefix
?S: with all ~-expansion done.
?S:.
: determine installation prefix for where package is to be installed.
if $afs; then
$cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
files will reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installprefix" in
 ") dflt=`echo $prefix | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installprefix";;
 esac
else
$cat <<EOM

In some special cases, particularly when building $package for distribution,
it is convenient to distinguish the directory in which files should be
installed from the directory ($prefix) in which they will
eventually
 reside.  For most users, these two directories are the same.

EOM
```

```
 case "$installprefix" in
 ") dflt=$prefix ;;
 *) dflt=$installprefix;;
 esac
fi
fn=d~
rp='What installation prefix should I use for installing files?'
. ./getfile
installprefix="$ans"
installprefixexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/installprefix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpwent.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_getpwent.U,v $
?RCS:
?MAKE:d_getpwent: Inlibc
?MAKE: -pick add $@ %<
?S:d_getpwent:
?S: This variable conditionally defines the HAS_GETPWENT symbol, which
?S: indicates to the C program that the getpwent() routine is available
?S: for sequential access of the passwd database.
?S:.
?C:HAS_GETPWENT:
?C: This symbol, if defined, indicates that the getpwent routine is
?C: available for sequential access of the passwd database.
?C: If this is not available, the older getpw() function may be available.
?C:.
?H:#$d_getpwent HAS_GETPWENT  /**/
?H:.
?LINT:set d_getpwent
: see if getpwent exists
set getpwent d_getpwent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_getpwent.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pthrattrj.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_old_pthread_create_joinable old_pthread_create_joinable: \
 cat Compile rm_try Setvar usethreads i_pthread
?MAKE: -pick add $@ %<
?S:d_old_pthread_create_joinable:
?S: This variable conditionally defines pthread_create_joinable.
?S: undef if pthread.h defines PTHREAD_CREATE_JOINABLE.
?S:.
?S:old_pthread_create_joinable:
?S: This variable defines the constant to use for creating joinable
?S: (aka undetached) pthreads.  Unused if pthread.h defines
?S: PTHREAD_CREATE_JOINABLE.  If used, possible values are
?S: PTHREAD_CREATE_UNDETACHED and __UNDETACHED.
?S:.
?C:OLD_PTHREAD_CREATE_JOINABLE:
?C: This symbol, if defined, indicates how to create pthread
?C: in joinable (aka undetached)
 state.  NOTE: not defined
?C: if pthread.h already has defined PTHREAD_CREATE_JOINABLE
?C: (the new version of the constant).
?C: If defined, known values are PTHREAD_CREATE_UNDETACHED
?C: and __UNDETACHED.
?C:.
?H:#$d_old_pthread_create_joinable OLD_PTHREAD_CREATE_JOINABLE $old_pthread_create_joinable /**/
?H:.
: how to create joinable pthreads
if test "X$usethreads" = "X$define" -a "X$i_pthread" = "X$define"; then
 echo " "
 echo "Checking what constant to use for creating joinable pthreads..." >&4
 $cat >try.c <<'EOCP'
#include <pthread.h>
int main() {
   int detachstate = JOINABLE;
}
EOCP
 set try -DJOINABLE=PTHREAD_CREATE_JOINABLE
 if eval $compile; then
  echo "You seem to use PTHREAD_CREATE_JOINABLE." >&4
  val="$undef" # Yes, undef.
  set d_old_pthread_create_joinable
```

```
  eval $setvar
  val=""
  set old_pthread_create_joinable
  eval $setvar
 else
  set try -DJOINABLE=PTHREAD_CREATE_UNDETACHED
  if eval $compile; then
   echo "You seem to use PTHREAD_CREATE_UNDETACHED." >&4
   val="$define"
   set
 d_old_pthread_create_joinable
   eval $setvar
   val=PTHREAD_CREATE_UNDETACHED
   set old_pthread_create_joinable
   eval $setvar
  else
   set try -DJOINABLE=__UNDETACHED
   if eval $compile; then
    echo "You seem to use __UNDETACHED." >&4
    val="$define"
    set d_old_pthread_create_joinable
    eval $setvar
    val=__UNDETACHED
    set old_pthread_create_joinable
    eval $setvar
   else
    echo "Egads, nothing obvious found.  Guessing that you use 0." >&4
    val="$define"
    set d_old_pthread_create_joinable
    eval $setvar
    val=0
    set old_pthread_create_joinable
    eval $setvar
   fi
  fi
 fi
 $rm_try
else
   d_old_pthread_create_joinable="$undef"
   old_pthread_create_joinable=""
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_pthrattrj.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: afs.U 1 2006-08-24 12:32:52Z rmanfredi $

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: afs.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:23:06  ram
?RCS: patch61: can now explicitly tell Configure whether AFS is running
?RCS:
?RCS: Revision 3.0.1.1  1993/08/24  12:24:43  ram
?RCS: patch3: created
?RCS:
?MAKE:afs afsroot: test
?MAKE: -pick add $@ %<
?S:afs:
?S: This variable is set to 'true' if AFS (Andrew File System) is used
?S: on the system, 'false' otherwise.  It is possible to override this
?S: with a hint value or command line option,
 but you'd better know
?S: what you are doing.
?S:.
?S:afsroot:
?S: This variable is by default set to '/afs'. In the unlikely case
?S: this is not the correct root, it is possible to override this with
?S: a hint value or command line option.  This will be used in subsequent
?S: tests for AFSness in the configure and test process.
?S:.
: allow them to override the AFS root
case "$afsroot" in
") afsroot=/afs ;;
*) afsroot=$afsroot ;;
esac

: is AFS running?
echo " "
case "$afs" in
$define|true) afs=true ;;
$undef|false) afs=false ;;
*) if $test -d $afsroot; then
  afs=true
 else
  afs=false
 fi
 ;;
```

```
esac
if $afs; then
 echo "AFS may be running... I'll be extra cautious then..." >&4
else
 echo "AFS does not seem to be running..." >&4
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/afs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Config_h.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  14:57:43  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:10:49  ram
?RCS: patch59: commented the purpose of the #un-def directive
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:25:39  ram
?RCS: patch49: typo fixes in leading config.h comment (WED)
?RCS:
?RCS: Revision 3.0.1.2  1993/08/24  12:13:20  ram
?RCS: patch3: added TOP as a local shell temporary variable
?RCS:
?RCS: Revision 3.0.1.1  1993/08/19  06:42:20
  ram
?RCS: patch1: leading config.sh searching was not aborting properly
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file ends up producing the config_h.SH script, which is run to produce
?X: the config.h file.  The file ./.Config_h below contains all the ?H: lines
?X: extracted out of all the units.  Metaconfig itself adds the !GROK!THIS!.
?X: Note that this code isn't included into Configure, but must be shipped with.
?X:
```

```
?X: For those who wish to know why the file is config_h.SH instead of the more
?X: natural config.h.SH, well... it is to support systems like MS-DOG. Only one
?X: 'dot' is allowed within the file name, as it is part of the "extension" of
?X: the file. MS-DOG will not let you have two 'dots' because that would mean
?X: two "extensions".
?X:
?MAKE:Config_h: Id End Config_sh Obsol_h myuname cf_time cf_by package src
?MAKE: -pick c_h_weed $@ %<
?MAKE: -pick c_h_weed $@ ./Config_h
?MAKE: -pick
 c_h_weed $@ ./Obsol_h
?T:CONFIG TOP
?LINT:unclosed !GROK!THIS!
?LINT:extern CONFIG_H CONFIG_SH
?LINT:change CONFIG_H CONFIG_SH
?LINT:nocomment
case "$CONFIG_SH" in
") CONFIG_SH=config.sh;;
esac
case "$CONFIG_H" in
") CONFIG_H=config.h;;
esac
case $CONFIG in
")
 if test -f $CONFIG_SH; then TOP=.;
 elif test -f ../$CONFIG_SH; then TOP=..;
 elif test -f ../../$CONFIG_SH; then TOP=../..;
 elif test -f ../../../$CONFIG_SH; then TOP=../../..;
 elif test -f ../../../../$CONFIG_SH; then TOP=../../../..;
 else
  echo "Can't find $CONFIG_SH."; exit 1
 fi
 . $TOP/$CONFIG_SH
 ;;
esac
?X: Make sure we are in the directory where the .SH file is located.
case "$0" in
*/*) cd `expr X$0 : 'X\(.*\)/'` ;;
esac
echo "Extracting $CONFIG_H (with variable substitutions)"
?X:
?X: Since we unconditionally translate leading #undef into /*#define, we're
?X: stuck when we really want to have a #undef in config.h. That's why there
?X: is provision here for #un-def, which is translated back into #undef after
?X:
 all original #undef have been processed.
?X:
?X: Previously, we changed all
```

```
?X:  #undef FOO /**/
?X: into
?X:  /*#define FOO /**/
?X: The xlc compiler (available on IBM's AIX) complains that this is
?X: an illegal attempt to write a nested comment, and warns against it.
?X: There's apparently no way to shut the compiler up, either.
?X: This sed command from Hallvard B Furuseth <h.b.furuseth@usit.uio.no>
?X: changes it to
?X:  /*#define FOO / **/
sed <<!GROK!THIS! >$CONFIG_H -e 's!^#undef\(.*/\)\*!/\*#define\1 \*!' -e 's!^#un-def!#undef!'
/*
* This file was produced by running the config_h.SH script, which
* gets its values from $CONFIG_SH, which is generally produced by
* running Configure.
*
* Feel free to modify any of this as the need arises.  Note, however,
* that running config_h.SH again will wipe out any changes you've made.
* For a more permanent change edit $CONFIG_SH and rerun config_h.SH.
*
* \$Id: Config_h.U 1 2006-08-24 12:32:52Z rmanfredi $
*/

/*
* Package name
     : $package
* Source directory  : $src
* Configuration time: $cf_time
* Configured by     : $cf_by
* Target system     : $myuname
*/

#ifndef _config_h_
#define _config_h_
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Config_h.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_isascii.U,v 3.0.1.2 1994/10/29 16:13:39 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_isascii.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:13:39  ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:09:32  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_isascii: Compile cat rm Setvar i_stdlib
?MAKE: -pick add $@ %<
?S:d_isascii:
?S: This variable conditionally defines the HAS_ISASCII constant,
?S: which indicates
 to the C program that isascii() is available.
?S:.
?C:HAS_ISASCII:
?C: This manifest constant lets the C program know that isascii
?C: is available.
?C:.
?H:#$d_isascii HAS_ISASCII  /**/
?H:.
?LINT:set d_isascii
?X: Can't use Inlibc because isascii() might be a macro.
: Look for isascii
echo " "
$cat >isascii.c <<EOCP
#include <stdio.h>
#include <ctype.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() {
 int c = 'A';
 if (isascii(c))
  exit(0);
 else
  exit(1);
}
EOCP
set isascii
if eval $compile; then
 echo "isascii() found." >&4
 val="$define"
else
 echo "isascii() NOT found." >&4
```

```
 val="$undef"
fi
set d_isascii
eval $setvar
$rm -f isascii*
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_isascii.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Inlibc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Inlibc.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  15:55:08  ram
?RCS: patch36: call ./whoa explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit checks for the definition of a given function.
?X:
?X: To use it, say:
?X: set function d_func
?X: eval $inlibc
?X:
?MAKE:Inlibc: Csym Whoa Oldconfig
?MAKE: -pick add $@ %<
?LINT:define inlibc
?V:inlibc
?S:inlibc:
?S: This
 shell variable is used internally by Configure to check
?S: wether a given function is defined or not. A typical use is:
?S:  set function d_func
?S:  eval $inlibc
?S: That will print a message, saying wether function was found or
?S: not and set d_func accordingly.
?S:.
```

```
?T:was tx sym tres td tu var
: define an is-in-libc? function
inlibc='echo " "; td=$define; tu=$undef;
sym=$1; var=$2; eval "was=\$$2";
tx=yes;
case "$reuseval$was" in
true) ;;
true*) tx=no;;
esac;
case "$tx" in
yes)
 set $sym tres -f;
 eval $csym;
 case "$tres" in
 true)
  echo "$sym() found." >&4;
  case "$was" in $undef) . ./whoa; esac; eval "$var=\$td";;
 *)
  echo "$sym() NOT found." >&4;
  case "$was" in $define) . ./whoa; esac; eval "$var=\$tu";;
 esac;;
*)
 case "$was" in
 $define) echo "$sym() found." >&4;;
 *) echo "$sym() NOT found." >&4;;
 esac;;
esac'
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Inlibc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Instruct.U,v 3.0.1.3 1997/02/28 15:02:55 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Instruct.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:02:55  ram
?RCS: patch61: logname / whoami sequence rewritten to use case
?RCS:
?RCS: Revision 3.0.1.2  1995/02/15  14:11:34  ram
```

```
?RCS: patch51: author name now appears at the end of the paragraph (WED)
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:12:05  ram
?RCS: patch45: now documents the & escape to turn -d on at the read prompt
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:04  ram
?RCS: Baseline for
 dist 3.0 netwide release.
?RCS:
?X:
?X: This unit spew out the directions that we want everyone to read.  I try to
?X: keep the first "pagefull" much less than a page since they don't know it
?X: isn't going to go shooting off the top of the screen, and we don't want
?X: to panic them yet.
?X:
?MAKE:Instruct: Myread Configdir Devel contains
?MAKE: -pick wipe $@ %<
?T:user needman firsttime
: general instructions
needman=true
firsttime=true
user=`(logname) 2>/dev/null`
case "$user" in
") user=`whoami 2>&1`;;
esac
if $contains "^$user\$" ../.config/instruct >/dev/null 2>&1; then
 firsttime=false
 echo " "
 rp='Would you like to see the instructions?'
 dflt=n
 . ./myread
 case "$ans" in
 [yY]*) ;;
 *) needman=false;;
 esac
fi
if $needman; then
 cat <<EOH

This installation shell script will examine your system and ask you questions
to determine how the <PACKAGENAME> package should be installed. If you get
stuck on a question, you may use a ! shell escape to start a subshell or
execute a
 command.  Many of the questions will have default answers in square
brackets; typing carriage return will give you the default.

On some of the questions which ask for file or directory names you are allowed
to use the ~name construct to specify the login directory belonging to "name",
```

```
even if you don't have a shell which knows about that.  Questions where this is
allowed will be marked "(~name ok)".

EOH
 rp=''
 dflt='Type carriage return to continue'
 . ./myread
 cat <<'EOH'

The prompter used in this script allows you to use shell variables and
backticks in your answers.  You may use $1, $2, etc...  to refer to the words
in the default answer, as if the default line was a set of arguments given to a
script shell.  This means you may also use $* to repeat the whole default line,
so you do not have to re-type everything to add something to the default.

Every time there is a substitution, you will have to confirm.  If there is an
error (e.g. an unmatched backtick), the default answer
 will remain unchanged
and you will be prompted again.

If you are in a hurry, you may run 'Configure -d'.  This will bypass nearly all
the questions and use the computed defaults (or the previous answers if there
was already a config.sh file). Type 'Configure -h' for a list of options.
You may also start interactively and then answer '& -d' at any prompt to turn
on the non-interactive behaviour for the remainder of the execution.

EOH
 . ./myread
 cat <<EOH

Much effort has been expended to ensure that this shell script will run on any
Unix system.  If despite that it blows up on yours, your best bet is to edit
Configure and run it again.  If you can't run Configure for some reason,
you'll have to generate a config.sh file by hand.  Whatever problems you
have, let me (<MAINTLOC>) know how I blew it.

This installation script affects things in two ways:

1) it may do direct variable substitutions on some of the files included
  in this kit.
2) it builds a config.h file for inclusion in
 C programs.  You may edit
  any of these files as the need arises after running this script.

If you make a mistake on a question, there is no easy way to back up to it
currently.  The easiest thing to do is to edit config.sh and rerun all the SH
files.  Configure will offer to let you do this before it runs the SH files.
```

```
EOH
?X: In case they played with the prompter...
 dflt='Type carriage return to continue'
 . ./myread
 case "$firsttime" in
 true) echo $user >>../.config/instruct;;
 esac
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Instruct.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpwnam_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getpwnam_r getpwnam_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_pwd extern_C
?MAKE: -pick add $@ %<
?S:d_getpwnam_r:
?S: This variable conditionally defines the HAS_GETPWNAM_R symbol,
?S: which indicates to the C program that the getpwnam_r()
?S: routine is available.
?S:.
?S:getpwnam_r_proto:
?S: This variable encodes the prototype of getpwnam_r.
?S: It is zero if d_getpwnam_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getpwnam_r
?S: is defined.
?S:.
?C:HAS_GETPWNAM_R:
?C: This symbol, if defined, indicates that the getpwnam_r routine
?C: is available to
 getpwnam re-entrantly.
?C:.
?C:GETPWNAM_R_PROTO:
?C: This symbol encodes the prototype of getpwnam_r.
?C: It is zero if d_getpwnam_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getpwnam_r
?C: is defined.
?C:.
?H:#$d_getpwnam_r HAS_GETPWNAM_R /**/
```

```
?H:#define GETPWNAM_R_PROTO $getpwnam_r_proto /**/
?H:.
?T:try hdrs d_getpwnam_r_proto
: see if getpwnam_r exists
set getpwnam_r d_getpwnam_r
eval $inlibc
case "$d_getpwnam_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_pwd pwd.h"
 case "$d_getpwnam_r_proto:$usethreads" in
 ":define") d_getpwnam_r_proto=define
  set d_getpwnam_r_proto getpwnam_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getpwnam_r_proto" in
 define)
 case "$getpwnam_r_proto" in
 "|0) try='int getpwnam_r(const char*, struct passwd*, char*, size_t, struct passwd**);'
 ./protochk "$extern_C $try" $hdrs && getpwnam_r_proto=I_CSBWR ;;
 esac
 case "$getpwnam_r_proto" in
 "|0) try='int getpwnam_r(const char*, struct passwd*,
 char*, int, struct passwd**);'
 ./protochk "$extern_C $try" $hdrs && getpwnam_r_proto=I_CSBIR ;;
 esac
 case "$getpwnam_r_proto" in
 "|0) try='struct passwd* getpwnam_r(const char*, struct passwd*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getpwnam_r_proto=S_CSBI ;;
 esac
 case "$getpwnam_r_proto" in
 "|0) try='int getpwnam_r(const char*, struct passwd*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getpwnam_r_proto=I_CSBI ;;
 esac
 case "$getpwnam_r_proto" in
 "|0) d_getpwnam_r=undef
  getpwnam_r_proto=0
  echo "Disabling getpwnam_r, cannot determine prototype." >&4 ;;
 * ) case "$getpwnam_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getpwnam_r_proto="REENTRANT_PROTO_$getpwnam_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getpwnam_r has no prototype, not using it." >&4 ;;
  esac
```

```
  d_getpwnam_r=undef
  getpwnam_r_proto=0
  ;;
 esac
 ;;
*) getpwnam_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getpwnam_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libpth.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libpth.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  16:08:49  ram
?RCS: patch61: new loclibpth variable
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:31:30  ram
?RCS: patch45: call ./mips instead of just mips (WED)
?RCS:
?RCS: Revision 3.0.1.4  1994/08/29  16:29:15  ram
?RCS: patch32: added /lib/pa1.1 for HP-UX specially tuned PA-RISC libs (ADO)
?RCS: patch32: fixed information message, making it clearer (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:03:54
  ram
?RCS: patch30: added /usr/shlib to glibpth for shared-only libraries
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:26:57  ram
?RCS: patch27: fixed a typo (libpth -> glibpth)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:07:53  ram
?RCS: patch23: now asks for library directories to be searched (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?X:
?X: This unit initializes the path for C library lookup.
?X:
?MAKE:libpth glibpth xlibpth plibpth loclibpth incpth: \
 usrinc incpath test cat Myread Oldconfig sysroot osname \
 ccname echo cppstdin awk grep sed rm usecrosscompile
?MAKE: -pick add $@ %<
?S:libpth:
?S: This variable holds the general path (space-separated) used to find
?S: libraries. It is intended to be used by other units.
?S:.
?S:glibpth:
?S: This variable holds the general path (space-separated) used to
?S: find libraries.  It may contain directories that do not exist on
?S: this platform, libpth is the cleaned-up
 version.
?S:.
?S:xlibpth:
?S: This variable holds extra path (space-separated) used to find
?S: libraries on this platform, for example CPU-specific libraries
?S: (on multi-CPU platforms) may be listed here.
?S:.
?S:loclibpth:
?S: This variable holds the paths (space-separated) used to find local
?S: libraries.  It is prepended to libpth, and is intended to be easily
?S: set from the command line.
?S:.
?S:plibpth:
?S: Holds the private path used by Configure to find out the libraries.
?S: Its value is prepend to libpth. This variable takes care of special
?S: machines, like the mips.  Usually, it should be empty.
?S:.
?S:incpth:
?S: This variable must precede the normal include path to get the
?S: right one, as in "$incpath/usr/include" or "$incpath/usr/lib".
?S: Value can be "" or "/bsd43" on mips.
?S:.
?T: xxx dlist i j croak
?LINT:extern incpth
?LINT:change usrinc
?INIT:: change the next line if compiling for Xenix/286 on Xenix/386
?INIT:xlibpth='/usr/lib/386 /lib/386'
?INIT::
 Possible local library directories to search.
?INIT:loclibpth="/usr/local/lib /opt/local/lib /usr/gnu/lib"
?INIT:loclibpth="$loclibpth /opt/gnu/lib /usr/GNU/lib /opt/GNU/lib"
?INIT:
?INIT:: general looking path for locating libraries
```

```
?INIT:glibpth="/lib /usr/lib $xlibpth"
?INIT:glibpth="$glibpth /usr/ccs/lib /usr/ucblib /usr/local/lib"
?X: /shlib is for Digital Unix 4.0
?X: /usr/shlib is for OSF/1 systems.
?INIT:test -f /usr/shlib/libc.so && glibpth="/usr/shlib $glibpth"
?INIT:test -f /shlib/libc.so     && glibpth="/shlib $glibpth"
?INIT:test -d /usr/lib64         && glibpth="$glibpth /lib64 /usr/lib64 /usr/local/lib64"
?INIT:
?INIT:: Private path used by Configure to find libraries.  Its value
?INIT:: is prepended to libpth. This variable takes care of special
?INIT:: machines, like the mips.  Usually, it should be empty.
?INIT:plibpth=''
?INIT:
?X:cppfilter is later used in Findhdr.U, but we not want to expose it to config.h
?T:cppfilter
: Adjust cppfilter for path component separator
case
 "$osname" in
vos) cppfilter="tr '\\\\>' '/' |" ;; # path component separator is >
os2) cppfilter="sed -e 's|\\\\\\\\\|/|g' |" ;; # path component separator is \
*)   cppfilter='' ;;
esac

: Use gcc to determine libpth and incpth
# If using gcc or clang, we can get better values for libpth, incpth
# and usrinc directly from the compiler.
# Note that ccname for clang is also gcc.
case "$ccname" in
   gcc)
 realpath=`which realpath 2>/dev/null | sed 's/no realpath in.*//'`
 $echo 'extern int foo;' > try.c
 set X `$cppstdin -v try.c 2>&1 | $awk '/^#include </,/^End of search /'|$cppfilter $grep '/include'`
 shift
 inclinpth=''
 if $test $# -gt 0; then
     for i in $*; do
  case $realpath in
      */realpath) i=`$realpath $i` ;;
  esac
  incpth="$incpth $i"
  j="`$echo $i | $sed 's,/include[^/]*,/lib,'`"
  if $test -d $j; then
      inclibpth="$inclibpth $j"
  fi
     done
     incpth="`$echo $incpth | $sed 's/^ //'`"
     for xxx in $inclibpth $loclibpth $plibpth $glibpth; do
  if
```

```
$test -d $xxx; then
     case $realpath in
  */realpath) xxx=`$realpath $xxx` ;;
     esac
     case " $libpth " in
     *" $xxx "*) ;;
     *) libpth="$libpth $xxx";;
     esac
 fi
    done
    libpth="`$echo $libpth | $sed 's/^ //'`"
fi
$rm -f try.c
case "$usrinc" in
") for i in $incpth; do
 if $test -f $i/errno.h -a -f $i/stdio.h -a -f $i/time.h; then
     usrinc="$i"
     break
 fi
    done
    ;;
esac

case "$usecrosscompile" in
$define|true|[yY]*)
    case "$incpth" in
 ") echo "Incpth not defined." >&4; croak=y ;;
 *)  echo "Using incpth '$incpth'." >&4 ;;
    esac
    case "$libpth" in
 ") echo "Libpth not defined." >&4; croak=y ;;
 *)  echo "Using libpth '$libpth'." >&4 ;;
    esac
    case "$usrinc" in
 ") echo "Usrinc not defined." >&4; croak=y ;;
 *)  echo "Using usrinc $usrinc." >&4 ;;
    esac
    case "$croak" in
 y)
 if test "X$sysroot" = X; then
     echo "Cannot continue, aborting." >&4; exit 1
 else
     echo "Cross-compiling
using sysroot $sysroot, failing to guess inc/lib paths is not fatal" >&4
 fi
 ;;
    esac
    ;;
```

```
 esac
   ;;
esac

: Default value for incpth is just usrinc
case "$incpth" in
") incpth="$usrinc";;
esac

: Set private lib path
case "$plibpth" in
") if ./mips; then
?X: on mips, we DO NOT want /lib, and we want $incpath/usr/lib
 plibpth="$incpath/usr/lib $sysroot/usr/local/lib $sysroot/usr/ccs/lib"
   fi;;
esac
case "$libpth" in
' ') dlist=";;
") dlist="$loclibpth $plibpth $glibpth";;
*) dlist="$libpth";;
esac

: Now check and see which directories actually exist, avoiding duplicates
for xxx in $dlist
do
   if $test -d $xxx; then
  case " $libpth " in
  *" $xxx "*) ;;
  *) libpth="$libpth $xxx";;
  esac
   fi
done
$cat <<'EOM'

Some systems have incompatible or broken versions of libraries.  Among
the directories listed in the question below, please remove any you
know not to be holding relevant libraries, and add any that are needed.
Say "none" for none.

EOM

if test "X$sysroot"
 != X; then
   $cat <<EOM
You have set sysroot to $sysroot, please supply the directories excluding sysroot

EOM
fi
```

```
case "$libpth" in
") dflt='none';;
*)
?X: strip leading space
 set X $libpth
 shift
 dflt=${1+"$@"}
 ;;
esac
rp="Directories to use for library searches?"
. ./myread
case "$ans" in
none) libpth=' ';;
*) libpth="$ans";;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/libpth.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: lns.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  07:05:52  ram
?RCS: patch30: created by ADO
?RCS:
?X:
?X: This unit checks whether symbolic links are really supported.
?X: We can't rely on d_symlink because that may be listed in the
?X: C library but unimplemented.
?X:
?MAKE:lns: ln rm touch test
?MAKE: -pick add $@ %<
?S:lns:
?S: This variable holds the name of the command to make
?S: symbolic links (if they are supported).
```

```
  It can be used
?S: in the Makefile. It is either 'ln -s' or 'ln'
?S:.
: determine whether symbolic links are supported
echo " "
$rm -f blurfl sym
$touch blurfl
if $ln -s blurfl sym > /dev/null 2>&1 && $test -f sym; then
 echo "Symbolic links are supported." >&4
 lns="$ln -s"
else
 echo "Symbolic links are NOT supported." >&4
 lns="$ln"
fi
$rm -f blurfl sym
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/lns.U
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```
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?RCS:
?MAKE:d_u32align: Compile cat rm_try Oldconfig run i_stdlib \
 byteorder u32type Myread Setvar u8type signal_t
?MAKE: -pick add $@ %<
?S:d_u32align:
?S: This variable tells whether you must access character data
?S: through U32-aligned pointers.
?S:.
?C:U32_ALIGNMENT_REQUIRED:
?C: This symbol, if defined, indicates that you must access
?C: character data through U32-aligned pointers.
?C:.
?H:?%<:#ifndef U32_ALIGNMENT_REQUIRED
?H:?%<:#$d_u32align U32_ALIGNMENT_REQUIRED /**/
?H:?%<:#endif
?H:.
?F:!try
: Checking 32bit alignedness
```

```
$cat
 <<EOM

Checking to see whether you can access character data unalignedly...
EOM
case "$d_u32align" in
")   $cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#define U32 $u32type
#define BYTEORDER 0x$byteorder
#define U8 $u8type
#include <signal.h>
#ifdef SIGBUS
$signal_t bletch(int s) { exit(4); }
#endif
int main() {
#if BYTEORDER == 0x1234 || BYTEORDER == 0x4321
   volatile U8 buf[8];
   volatile U32 *up;
   int i;

   if (sizeof(U32) != 4) {
 printf("sizeof(U32) is not 4, but %d\n", sizeof(U32));
 exit(1);
   }

   fflush(stdout);

#ifdef SIGBUS
   signal(SIGBUS, bletch);
#endif

   buf[0] = 0;
   buf[1] = 0;
   buf[2] = 0;
   buf[3] = 1;
   buf[4] = 0;
   buf[5] = 0;
   buf[6] = 0;
   buf[7] = 1;

   for (i = 0; i < 4; i++) {
 up = (U32*)(buf + i);
 if (! ((*up == 1 << (8*i)) ||   /* big-endian */
```

```
        (*up == 1 << (8*(3-i)))  /* little-endian */
       )
    )
 {
     printf("read failed (%x)\n", *up);

    exit(2);
 }
   }

   /* write test */
   for (i = 0; i < 4; i++) {
 up = (U32*)(buf + i);
 *up = 0xBeef;
 if (*up != 0xBeef) {
     printf("write failed (%x)\n", *up);
     exit(3);
 }
   }

   exit(0);
#else
   printf("1\n");
   exit(1);
#endif
   return 0;
}
EOCP
set try
if eval $compile_ok; then
 echo "(Testing for character data alignment may crash the test.  That's okay.)" >&4
 $run ./try 2>&1 >/dev/null
 case "$?" in
 0) cat >&4 <<EOM
You can access character data pretty unalignedly.
EOM
  d_u32align="$undef"
  ;;
 *) cat >&4 <<EOM
It seems that you must access character data in an aligned manner.
EOM
  d_u32align="$define"
  ;;
 esac
else
 rp='Can you access character data at unaligned addresses?'
 dflt='n'
 . ./myread
```

```
 case "$ans" in
 [yY]*) d_u32align="$undef"  ;;
 *) d_u32align="$define" ;;
 esac
fi
$rm_try
;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_u32align.U
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```
?RCS: $Id: i_syslog.U,v $
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?RCS:
?MAKE:i_syslog: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_syslog:
?S: This variable conditionally defines the I_SYSLOG symbol,
?S: and indicates whether a C program should include <syslog.h>.
?S:.
?C:I_SYSLOG:
?C: This symbol, if defined, indicates that <syslog.h> exists and
?C: should be included.
?C:.
?H:#$i_syslog I_SYSLOG  /**/
?H:.
?LINT:set i_syslog
: see if this is a syslog.h system
set syslog.h i_syslog
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_syslog.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rename.C,v 3.0.1.1 1994/01/24 13:58:42 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
```

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*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* $Log: rename.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:42  ram
* patch16: created
*
*/
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/rename.C
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setegid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
?RCS: $Log: d_setegid.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setegid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setegid:
?S: This variable conditionally defines the HAS_SETEGID symbol, which
?S: indicates to the C program that the setegid() routine is available
?S: to change the effective gid of the current program.
?S:.
?C:HAS_SETEGID (SETEGID):
?C: This symbol, if defined, indicates that the setegid
 routine is available
?C: to change the effective gid of the current program.
?C:.
?H:#$d_setegid HAS_SETEGID  /**/
?H:.
?LINT:set d_setegid
: see if setegid exists
set setegid d_setegid
```

```
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setegid.U
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```
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?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: Original author Jarkko Hietaniemi <jhi@iki.fi>
?RCS: Merged into dist by Andy Dougherty  July 13, 1998
?RCS:
?MAKE:trnl: Nothing
?MAKE: -pick add $@ %<
?S:trnl:
?S: This variable contains the value to be passed to the tr(1)
?S: command to transliterate a newline.  Typical values are
?S: '\012' and '\n'.  This is needed for EBCDIC systems where
?S: newline is not necessarily '\012'.
?S:.
?T: DJGPP
: Find the appropriate value for a newline for tr
?X: We can't
 use $tr since that would cause a circular dependency via Myread
?X: dos djgpp uses '\015\012', but reportedly is happy with '\012' in the
?X: tr command.  I don't know why it passes the '\n' test but later
?X: refuses to work correctly with it.  --AD  6/14/98
if test -n "$DJGPP"; then
    trnl='\012'
fi
if test X"$trnl" = X; then
 case "`echo foo | tr '\n' x 2>/dev/null`" in
 foox) trnl='\n' ;;
 esac
fi
if test X"$trnl" = X; then
 case "`echo foo | tr '\012' x 2>/dev/null`" in
 foox) trnl='\012' ;;
```

```
 esac
fi
if test X"$trnl" = X; then
	case "`echo foo | tr '\r\n' xy 2>/dev/null`" in
	fooxy) trnl='\n\r' ;;
	esac
fi
if test X"$trnl" = X; then
 cat <<EOM >&2

$me: Fatal Error: cannot figure out how to translate newlines with 'tr'.

EOM
 exit 1
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/trnl.U
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```
?RCS: $Id: d_fd_set.U,v 3.0.1.3 1997/02/28 15:33:16 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_fd_set.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:33:16  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20  06:57:23  ram
?RCS: patch30: extended scope for fd_set checks (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:06:27  ram
?RCS: patch16: comments for HAS_FD_* symbols were not consistent
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_fd_set d_fd_macros
 d_fds_bits: Compile cat rm_try Oldconfig \
 d_socket i_systime i_sysselct i_stdlib run
?MAKE: -pick add $@ %<
```

```
?S:d_fd_set:
?S: This variable contains the eventual value of the HAS_FD_SET symbol,
?S: which indicates if your C compiler knows about the fd_set typedef.
?S:.
?S:d_fd_macros:
?S: This variable contains the eventual value of the HAS_FD_MACROS symbol,
?S: which indicates if your C compiler knows about the macros which
?S: manipulate an fd_set.
?S:.
?S:d_fds_bits:
?S: This variable contains the eventual value of the HAS_FDS_BITS symbol,
?S: which indicates if your fd_set typedef contains the fds_bits member.
?S: If you have an fd_set typedef, but the dweebs who installed it did
?S: a half-fast job and neglected to provide the macros to manipulate
?S: an fd_set, HAS_FDS_BITS will let us know how to fix the gaffe.
?S:.
?C:HAS_FD_SET:
?C: This symbol, when defined, indicates presence of the fd_set typedef
?C: in <sys/types.h>
?C:.
?C:HAS_FD_MACROS:
?C: This symbol, when defined,
  indicates presence of the macros used to
?C: manipulate an fd_set.
?C:.
?C:HAS_FDS_BITS:
?C: This symbol, when defined, indicates presence of the fds_bits member in
?C: fd_set.  This knowledge is useful if fd_set is available but the macros
?C: aren't.
?C:.
?H:#$d_fd_set HAS_FD_SET /**/
?H:#$d_fd_macros HAS_FD_MACROS /**/
?H:#$d_fds_bits HAS_FDS_BITS /**/
?H:.
?F:!try
: check for fd_set items
$cat <<EOM

Checking to see how well your C compiler handles fd_set and friends ...
EOM
?X: The FD_SET macros can be in strange places.  On some SysV-based
?X: systems, they are in <sys/bsdtypes.h>, which is included (perhaps)
?X: by <sys/socket.h>.  We won't force people to include
?X: <sys/bsdtypes.h> because it might introduce other
?X: incompatibilities.
$cat >try.c <<EOCP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
```

```
#include <stdlib.h>
#endif
#$i_systime I_SYS_TIME
#$i_sysselct I_SYS_SELECT
#$d_socket HAS_SOCKET
#include <sys/types.h>
#ifdef HAS_SOCKET
#include <sys/socket.h> /* Might include <sys/bsdtypes.h>
 */
#endif
#ifdef I_SYS_TIME
#include <sys/time.h>
#endif
#ifdef I_SYS_SELECT
#include <sys/select.h>
#endif
int main() {
 fd_set fds;

#ifdef TRYBITS
 if(fds.fds_bits);
#endif

#if defined(FD_SET) && defined(FD_CLR) && defined(FD_ISSET) && defined(FD_ZERO)
 exit(0);
#else
 exit(1);
#endif
}
EOCP
set try -DTRYBITS
if eval $compile; then
 d_fds_bits="$define"
 d_fd_set="$define"
 echo "Well, your system knows about the normal fd_set typedef..." >&4
 if $run ./try; then
  echo "and you have the normal fd_set macros (just as I'd expect)." >&4
  d_fd_macros="$define"
 else
  $cat >&4 <<'EOM'
but not the normal fd_set macros!  Gaaack!  I'll have to cover for you.
EOM
  d_fd_macros="$undef"
 fi
else
 $cat <<'EOM'
Hmm, your compiler has some difficulty with fd_set.  Checking further...
EOM
```

```
 set try
 if eval $compile; then
  d_fds_bits="$undef"
  d_fd_set="$define"
  echo "Well, your system has some sort of fd_set available..." >&4
  if $run ./try; then
   echo "and you have the normal
 fd_set macros." >&4
   d_fd_macros="$define"
  else
   $cat <<'EOM'
but not the normal fd_set macros!  Gross!  More work for me...
EOM
   d_fd_macros="$undef"
  fi
 else
 echo "Well, you got zip.  That's OK, I can roll my own fd_set stuff." >&4
  d_fd_set="$undef"
  d_fds_bits="$undef"
  d_fd_macros="$undef"
 fi
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_fd_set.U
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?RCS:
?RCS: $Log: libc.U,v $
?RCS: Revision 3.0.1.10  1997/02/28  15:56:48  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: added support for HPUX-10 nm output
?RCS:
?RCS: Revision 3.0.1.9  1995/07/25  14:11:56  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.8  1995/05/12  12:20:47  ram
```

```
?RCS: patch54: made sure only most recent version of shared lib is picked
?RCS: patch54: final "nm -p" check now uses xscan and xrun like everybody
?RCS: patch54: can now grok
 linux nm output with lead __IO (ADO)
?RCS: patch54: added support for linux ELF output, using 'W' for alias (ADO)
?RCS:
?RCS: Revision 3.0.1.7  1994/10/29  16:23:40  ram
?RCS: patch36: now looks for shared libraries before anything else (ADO)
?RCS: patch36: added new nm output format (ADO)
?RCS:
?RCS: Revision 3.0.1.6  1994/08/29  16:28:10  ram
?RCS: patch32: added I-type symbols for nm output parsing on Linux
?RCS:
?RCS: Revision 3.0.1.5  1994/06/20  07:03:24  ram
?RCS: patch30: checks are now presented by succession of if/elif
?RCS: patch30: uniformized checks for shared objects with new so symbol
?RCS:
?RCS: Revision 3.0.1.4  1994/05/06  15:06:33  ram
?RCS: patch23: added shared library knowledge (ADO and WED)
?RCS:
?RCS: Revision 3.0.1.3  1994/01/24  14:12:17  ram
?RCS: patch16: can now export nm_extract as an internal-use only variable
?RCS:
?RCS: Revision 3.0.1.2  1993/09/13  16:09:03  ram
?RCS: patch10: added special handling for Apollo systems (WAD)
?RCS:
?RCS: Revision 3.0.1.1
  1993/08/27  14:40:03  ram
?RCS: patch7: added entry for /usr/shlib/libc.so (OSF/1 machines)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libc libnames +nm_extract: echo n c rm test grep Getfile Myread \
 Oldconfig Loc sed libs incpath libpth ar runnm nm nm_opt nm_so_opt \
 contains xlibpth so osname trnl tr sort uniq _o _a
?MAKE: -pick add $@ %<
?S:libc:
?S: This variable contains the location of the C library.
?S:.
?S:libnames:
?S: The constructed list of library names.  Normally empty, but hint files
?S: may set this for later perusal by Configure.
?S:.
?S:nm_extract:
?S: This variable holds the name of the extraction command used to process
?S: the output of nm and yield the list of defined symbols. It is used
?S: internally by Configure.
```

```
?S:.
?T:thislib try libnames xxx xscan xrun thisname com tans file
?F:!libnames !libc.tmp !tmp.imp
?LINT:change nm_opt runnm
?INIT:libnames=''
: Figure out where the libc is located
case
 "$runnm" in
true)
?X: indentation is wrong on purpose--RAM
: get list of predefined functions in a handy place
echo " "
case "$libc" in
'') libc=unknown
 case "$libs" in
 *-lc_s*) libc=`./loc libc_s$_a $libc $libpth`
 esac
 ;;
esac
case "$libs" in
'') ;;
*)  for thislib in $libs; do
 case "$thislib" in
 -lc|-lc_s)
  : Handle C library specially below.
  ;;
 -l*)
  thislib=`echo $thislib | $sed -e 's/^-l//'`
  if try=`./loc lib$thislib.$so.'*' X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib.$so X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib$_a X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc $thislib$_a X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc $thislib X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc Slib$thislib$_a X $xlibpth`; $test -f "$try"; then
   :
  else
   try=''
  fi
  libnames="$libnames $try"
  ;;
 *) libnames="$libnames $thislib"
```

```
 ;;
 esac
 done
 ;;
esac
?X:
?X: Some systems (e.g. DG/UX) use "environmental" links, which make the test
?X: -f fail. Ditto for symbolic links. So in order to reliably check the
?X: existence of a file, we use test -r. It will still fail with DG/UX links
?X: though, but at least it will detect symbolic links. At some strategic
?X: points, we make use of (test -h), using a sub-shell in case builtin test
?X: does not implement the -h check for symbolic links. This makes it
?X: possible to preset libc in a hint file for instance and have it show up
?X: as-is in the question.
?X:
xxx=normal
case "$libc" in
unknown)
?X:
?X: The sed below transforms .so.9 .so.12 into something like .so.0009 .so.0012,
?X: then sorts on it to allow keeping .so.12 instead of .so.9 as the latest
?X: up-to-date library. The initial filename (before sed munging, saved in hold
?X: space via 'h') is appended via 'G' before sorting, then the leading munged
?X: part is removed after sorting. Nice efficient work
 from Tye McQueen.
?X: The initial blurfl is here to prevent the trailing pipe from producing an
?X: empty string, causing Configure to output all its set variables!
?X:
 set /lib/libc.$so
 for xxx in $libpth; do
  $test -r $1 || set $xxx/libc.$so
  : The messy sed command sorts on library version numbers.
  $test -r $1 || \
   set `echo blurfl; echo $xxx/libc.$so.[0-9]* | \
   tr ' ' $trnl | egrep -v '\.[A-Za-z]*$' | $sed -e '
    h
    s/[0-9][0-9]*/0000&/g
    s/0*\([0-9][0-9][0-9][0-9][0-9]\)/\1/g
    G
    s/\n/ /' | \
    $sort | $sed -e 's/^.* //'`
  eval set \$$#
 done
 $test -r $1 || set /usr/ccs/lib/libc.$so
 $test -r $1 || set /lib/libsys_s$_a
 ;;
*)
?X: ensure the test below for the (shared) C library will fail
```

```
 set blurfl
 ;;
esac
if $test -r "$1"; then
 echo "Your (shared) C library seems to be in $1."
 libc="$1"
elif $test -r /lib/libc && $test -r /lib/clib; then
?X:
?X: Apollo has its C library in /lib/clib AND /lib/libc
?X: not to mention its math library in /lib/syslib...
?X:
 echo
 "Your C library seems to be in both /lib/clib and /lib/libc."
 xxx=apollo
 libc='/lib/clib /lib/libc'
 if $test -r /lib/syslib; then
  echo "(Your math library is in /lib/syslib.)"
?X: Put syslib in libc -- not quite right, but won't hurt
  libc="$libc /lib/syslib"
 fi
elif $test -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
 echo "Your C library seems to be in $libc, as you said before."
?X: For mips, and...
elif $test -r $incpath/usr/lib/libc$_a; then
 libc=$incpath/usr/lib/libc$_a;
 echo "Your C library seems to be in $libc.  That's fine."
elif $test -r /lib/libc$_a; then
 libc=/lib/libc$_a;
 echo "Your C library seems to be in $libc.  You're normal."
else
 if tans=`./loc libc$_a blurfl/dyick $libpth`; $test -r "$tans"; then
  :
 elif tans=`./loc libc blurfl/dyick $libpth`; $test -r "$tans"; then
  libnames="$libnames "`./loc clib blurfl/dyick $libpth`
 elif tans=`./loc clib blurfl/dyick $libpth`; $test -r "$tans"; then
  :
 elif tans=`./loc Slibc$_a blurfl/dyick
 $xlibpth`; $test -r "$tans"; then
  :
 elif tans=`./loc Mlibc$_a blurfl/dyick $xlibpth`; $test -r "$tans"; then
  :
 else
  tans=`./loc Llibc$_a blurfl/dyick $xlibpth`
 fi
 if $test -r "$tans"; then
  echo "Your C library seems to be in $tans, of all places."
  libc=$tans
 else
```

```
  libc='blurfl'
 fi
fi
if $test $xxx = apollo -o -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
 dflt="$libc"
 cat <<EOM

If the guess above is wrong (which it might be if you're using a strange
compiler, or your machine supports multiple models), you can override it here.

EOM
else
 dflt=''
 echo $libpth | $tr ' ' $trnl | $sort | $uniq > libpath
 cat >&4 <<EOM
I can't seem to find your C library.  I've looked in the following places:

EOM
 $sed 's/^/ /' libpath
 cat <<EOM

None of these seems to contain your C library. I need to get its name...

EOM
fi
fn=f
rp='Where is your C library?'
. ./getfile
libc="$ans"

echo " "
echo $libc $libnames | $tr ' ' $trnl | $sort | $uniq > libnames
set X `cat libnames`
shift
xxx=files
case
 $# in 1) xxx=file; esac
echo "Extracting names from the following $xxx for later perusal:" >&4
echo " "
$sed 's/^/ /' libnames >&4
echo " "
$echo $n "This may take a while...$c" >&4

?X:
?X: Linux may need the special Dynamic option to nm for shared libraries.
?X: In general, this is stored in the nm_so_opt variable.
?X: Unfortunately, that option may be fatal on non-shared libraries.
?X:
```

```
for file in $*; do
 case $file in
 *$so*) $nm $nm_so_opt $nm_opt $file 2>/dev/null;;
 *) $nm $nm_opt $file 2>/dev/null;;
 esac
done >libc.tmp

$echo $n ".$c"
?X:
?X: To accelerate processing, we look at the correct 'sed' command
?X: by using a small subset of libc.tmp, i.e. fprintf function.
?X: When we know which sed command to use, do the name extraction
?X:
$grep fprintf libc.tmp > libc.ptf
?X:
?X: In order to enhance readability and save some space, we define
?X: some variables that will be "eval"ed.
?X:
xscan='eval "<libc.ptf $com >libc.list"; $echo $n ".$c" >&4'
xrun='eval
 "<libc.tmp $com >libc.list"; echo "done." >&4'
?X: BSD-like output, I and W types added for Linux
?X: Some versions of Linux include a leading __IO in the symbol name.
?X: HPUX10 reportedly has trailing spaces, though I'm surprised it has
?X: BSD-like output.  (AD).
xxx='[ADTSIW]'
if com="$sed -n -e 's/__IO//' -e 's/^.* $xxx  *_[_.]*//p' -e 's/^.* $xxx  *//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: SYSV-like output
elif com="$sed -n -e 's/^__*//' -e 's/^\([a-zA-Z_0-9$]*\).*xtern.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e '/|UNDEF/d' -e '/FUNC..GL/s/^.*|__*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.* D __*//p' -e 's/^.* D //p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^_//' -e 's/^\([a-zA-Z_0-9]*\).*xtern.*text.*/\1/p'";\
 eval
 $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
```

```
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$grep '|' | $sed -n -e '/|COMMON/d' -e '/|DATA/d' \
    -e '/ file/d' -e 's/^\([^  ]*\).*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|//p' -e 's/^.*|FUNC |WEAK .*|//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: mips nm output (sysV)
elif com="$sed -n -e 's/^__//' -e '/|Undef/d' -e '/|Proc/s/ .*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|Proc .*|Text *| *//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e '/Def. Text/s/.* \([^ ]*\)\$/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null
 2>&1; then
  eval $xrun
?X: OS/2 nm output
elif com="$sed -n -e 's/^[-0-9a-f ]*_\(.*\)=.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/.*\.text n\ \ \ \.//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: AIX nm output
elif com="sed -n -e 's/^__.*//' -e 's/[       ]*D[    ]*[0-9]*.*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
else
 $nm -p $* 2>/dev/null >libc.tmp
 $grep fprintf libc.tmp > libc.ptf
 if com="$sed -n -e 's/^.* [ADTSIW]  *_[_.]*//p' -e 's/^.* [ADTSIW] //p'";\
  eval $xscan; $contains '^fprintf$' libc.list >/dev/null 2>&1
 then
  nm_opt='-p'
```

```
 eval $xrun
else
 echo " "
 echo "$nm didn't seem to work right. Trying $ar instead..." >&4
 com=''
 if $ar t $libc > libc.tmp && \
  $contains '^fprintf$' libc.tmp >/dev/null 2>&1
 then
  for thisname in $libnames $libc; do
   $ar t $thisname >>libc.tmp
  done
  $sed
-e "s/\\$_o\$//" < libc.tmp > libc.list
  echo "Ok." >&4
 elif test "X$osname" = "Xos2" && $ar tv $libc > libc.tmp; then
?X: Repeat libc to extract forwarders to DLL entries too
  for thisname in $libnames $libc; do
   $ar tv $thisname >>libc.tmp
?X: Revision 50 of EMX has bug in ar: it will not extract forwarders
?X: to DLL entries.  Use emximp which will extract exactly them.
   emximp -o tmp.imp $thisname \
       2>/dev/null && \
       $sed -e 's/^\([_a-zA-Z0-9]*\) .*$/\1/p' \
       < tmp.imp >>libc.tmp
   $rm -f tmp.imp
  done
  $sed -e "s/\\$_o\$//" -e 's/^ \+//' < libc.tmp > libc.list
  echo "Ok." >&4
 else
  echo "$ar didn't seem to work right." >&4
  echo "Maybe this is a Cray...trying bld instead..." >&4
  if
   bld t $libc | \
    $sed -e 's/.*\///' -e "s/\\$_o:.*\$//" > libc.list &&
   $test -s libc.list
  then
   for thisname in $libnames; do
    bld t $libnames | \
    $sed -e 's/.*\///' -e "s/\\$_o:.*\$//" >>libc.list
    $ar t $thisname >>libc.tmp
   done
   echo
"Ok." >&4
  else
   echo "That didn't work either." >&4
   echo "No problem, I'll be compiling test programs then..." >&4
   runnm=false
  fi
```

```
  fi
 fi
fi
nm_extract="$com"
if $test -f /lib/syscalls.exp; then
 echo " "
 echo "Also extracting names from /lib/syscalls.exp for good ole AIX..." >&4
 $sed -n 's/^\([^  ]*\)[  ]*syscall[0-9]*[  ]*$/\1/p' \
  /lib/syscalls.exp >>libc.list
fi
?X: remember, indentation is wrong on purpose--RAM
;;
esac
$rm -f libnames libpath
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/libc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pthread_y.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_pthread_yield sched_yield d_sched_yield: \
 Compile Setvar cat rm_try usethreads
?MAKE: -pick add $@ %<
?S:d_pthread_yield:
?S: This variable conditionally defines the HAS_PTHREAD_YIELD
?S: symbol if the pthread_yield routine is available to yield
?S: the execution of the current thread.
?S:.
?S:sched_yield:
?S: This variable defines the way to yield the execution
?S: of the current thread.
?S:.
?S:d_sched_yield:
?S: This variable conditionally defines the HAS_SCHED_YIELD
?S: symbol if the sched_yield routine is available to yield
?S: the execution of the current thread.
?S:.
?C:HAS_PTHREAD_YIELD:
?C: This symbol, if defined, indicates that the pthread_yield
?C: routine is available
```

```
 to yield the execution of the current
?C: thread.  sched_yield is preferable to pthread_yield.
?C:.
?C:SCHED_YIELD:
?C: This symbol defines the way to yield the execution of
?C: the current thread.  Known ways are sched_yield,
?C: pthread_yield, and pthread_yield with NULL.
?C:.
?C:HAS_SCHED_YIELD:
?C: This symbol, if defined, indicates that the sched_yield
?C: routine is available to yield the execution of the current
?C: thread.  sched_yield is preferable to pthread_yield.
?C:.
?H:#$d_pthread_yield HAS_PTHREAD_YIELD /**/
?H:#define SCHED_YIELD $sched_yield /**/
?H:#$d_sched_yield HAS_SCHED_YIELD /**/
?H:.
?LINT: set d_pthread_yield d_sched_yield
: see whether the various POSIXish _yields exist
$cat >try.c <<EOP
#include <pthread.h>
#include <stdio.h>
int main() {
#ifdef SCHED_YIELD
 sched_yield();
#else
#ifdef PTHREAD_YIELD
 pthread_yield();
#else
#ifdef PTHREAD_YIELD_NULL
 pthread_yield(NULL);
#endif
#endif
#endif
}
EOP
: see if sched_yield exists
set try -DSCHED_YIELD
if eval $compile;
 then
   val="$define"
   sched_yield='sched_yield()'
else
   val="$undef"
fi
case "$usethreads" in
$define)
 case "$val" in
```

```
 $define) echo 'sched_yield() found.' >&4 ;;
 *)  echo 'sched_yield() NOT found.' >&4 ;;
 esac
esac
set d_sched_yield
eval $setvar

: see if pthread_yield exists
set try -DPTHREAD_YIELD
if eval $compile; then
   val="$define"
   case "$sched_yield" in
   '') sched_yield='pthread_yield()' ;;
   esac
else
   set try -DPTHREAD_YIELD_NULL
   if eval $compile; then
 val="$define"
 case "$sched_yield" in
 '') sched_yield='pthread_yield(NULL)' ;;
 esac
   else
 val="$undef"
   fi
fi
case "$usethreads" in
$define)
 case "$val" in
 $define) echo 'pthread_yield() found.' >&4 ;;
 *)  echo 'pthread_yield() NOT found.' >&4 ;;
 esac
 ;;
esac
set d_pthread_yield
eval $setvar
case "$sched_yield" in
'') sched_yield=undef ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_pthread_y.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_link.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_link.U,v $
?RCS: Revision 3.0.1.1  1993/08/25  14:01:13  ram
?RCS: patch6: created for completeness
?RCS:
?MAKE:d_link: Inlibc
?MAKE: -pick add $@ %<
?S:d_link:
?S: This variable conditionally defines HAS_LINK if link() is
?S: available to create hard links.
?S:.
?C:HAS_LINK:
?C: This symbol, if defined, indicates that the link routine is
?C: available to create hard links.
?C:.
?H:#$d_link HAS_LINK /**/
?H:.
?LINT:set d_link
: see if link exists
set
 link d_link
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_link.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_brokstat.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_brokstat.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:30:53  ram
?RCS: patch61: created
?RCS:
```

```
?MAKE:d_brokstat: cat contains cppstdin cppminus +cppflags rm Setvar
?MAKE: -pick add $@ %<
?S:d_brokstat:
?S: This variable conditionally defines STAT_MACROS_BROKEN if some
?S: of the S_IS*() macros from <sys/stat.h> give false positive on
?S: regular files.
?S:.
?C:STAT_MACROS_BROKEN:
?C: This symbol, if defined, indicates that the S_IS*() stat macros
?C: such
 as S_ISBLK() give false positive and are thus unusable.
?C: Your best bet is then to supply your own set.
?C:.
?H:#$d_brokstat STAT_MACROS_BROKEN  /**/
?H:.
?F:!try.c !try
?LINT:set d_brokstat
?LINT:usefile try
?X: This test inspired by autoconf -- RAM, 28/02/97
: are stat macros sane?
echo " "
echo "Checking whether your stat() macros are broken..."
$cat >try.c <<'EOC'
#include <sys/types.h>
#include <sys/stat.h>

#if defined(S_ISBLK) && defined(S_IFDIR)
#if S_ISBLK(S_IFDIR)
Broken
#endif
#endif

#if defined(S_ISBLK) && defined(S_IFCHR)
#if S_ISBLK(S_IFCHR)
Broken
#endif
#endif

#if defined(S_ISLNK) && defined(S_IFREG)
#if S_ISLNK(S_IFREG)
Broken.
#endif
#endif

#if defined(S_ISSOCK) && defined(S_IFREG)
#if S_ISSOCK(S_IFREG)
Broken.
#endif
```

```
#endif
EOC
$cppstdin $cppflags $cppminus <try.c 2>/dev/null >try
if $contains Broken try >/dev/null 2>&1; then
 echo "Alas, they are.  I'll use my own macro set then." >&4
 val="$define"
else
 echo "Nope, working just fine." >&4
 val="$undef"
fi
$rm
 -f try try.c
set d_brokstat
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_brokstat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_mktime.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_mktime.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:09:44  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_mktime: Inlibc
?MAKE: -pick add $@ %<
?S:d_mktime:
?S: This variable conditionally defines the HAS_MKTIME symbol, which
?S: indicates to the C program that the mktime() routine is available.
?S:.
?C:HAS_MKTIME :
?C: This symbol, if defined, indicates that the mktime routine
 is
?C: available.
?C:.
?H:#$d_mktime HAS_MKTIME  /**/
```

```
?H:.
?LINT:set d_mktime
: see if mktime exists
set mktime d_mktime
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_mktime.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_flexfnam.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_flexfnam.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_flexfnam: cat rm test Setvar
?MAKE: -pick add $@ %<
?S:d_flexfnam:
?S: This variable conditionally defines the FLEXFILENAMES symbol, which
?S: indicates that the system supports filenames longer than 14 characters.
?S:.
?C:FLEXFILENAMES:
?C: This symbol, if defined, indicates that the system supports filenames
?C: longer than 14
 characters.
?C:.
?H:#$d_flexfnam FLEXFILENAMES  /**/
?H:.
?T:first
?LINT:set d_flexfnam
: see if we can have long filenames
echo " "
?X:
?X: We have to test in both /tmp and . because of NFS (remote server may allow
?X: long filenames while the local filesystem cannot support them). If at least
?X: one of those file systems cannot support long filenames, then we assume the
?X: whole system can't.
?X:
```

```
first=123456789abcdef
$rm -f $first
if (echo hi >$first) 2>/dev/null; then
 if $test -f 123456789abcde; then
  echo 'You cannot have filenames longer than 14 characters.  Sigh.' >&4
  val="$undef"
 else
  echo 'You can have filenames longer than 14 characters.'>&4
  val="$define"
 fi
else
 $cat <<'EOM'
You can't have filenames longer than 14 chars.
You can't even think about them!
EOM
 val="$undef"
fi
set d_flexfnam
eval $setvar
$rm -rf 123456789abcde*
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_flexfnam.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isinf: Inlibc cat Compile rm_try Setvar
?MAKE: -pick add $@ %<
?S:d_isinf:
?S: This variable conditionally defines the HAS_ISINF symbol, which
?S: indicates to the C program that the isinf() routine is available.
?S:.
?C:HAS_ISINF:
?C: This symbol, if defined, indicates that the isinf routine is
?C: available to check whether a double is an infinity.
?C:.
?H:#$d_isinf HAS_ISINF  /**/
?H:.
?LINT:set d_isinf
: check for isinf
echo "Checking to see if you have isinf..." >&4
```

```
$cat >try.c <<EOCP
#include <math.h>
int main() { return isinf(0.0); }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have isinf."
else
 val="$undef"
 echo "You do not have isinf."
fi
$rm_try
set d_isinf
eval $setvar
```

Found
 in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_isinf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_msgsnd.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msgsnd.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:41  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_msgsnd: Inlibc
?MAKE: -pick add $@ %<
?S:d_msgsnd:
?S: This variable conditionally defines the HAS_MSGSND symbol, which
?S: indicates to the C program that the msgsnd() routine is available.
?S:.
?C:HAS_MSGSND:
?C: This symbol, if defined, indicates that the msgsnd() routine is
?C: available to send a message into the message queue.
?C:.
?H:#$d_msgsnd
```

```
 HAS_MSGSND  /**/
?H:.
?LINT:set d_msgsnd
: see if msgsnd exists
set msgsnd d_msgsnd
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_msgsnd.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_llrintl: Inlibc
?MAKE: -pick add $@ %<
?S:d_llrintl:
?S: This variable conditionally defines the HAS_LLRINTL symbol, which
?S: indicates to the C program that the llrintl() routine is available
?S: to return the long long value closest to a long double (according
?S: to the current rounding mode).
?S:.
?C:HAS_LLRINTL:
?C: This symbol, if defined, indicates that the llrintl routine is
?C: available to return the long long value closest to a long double
?C: (according to the current rounding mode).
?C:.
?H:#$d_llrintl HAS_LLRINTL  /**/
?H:.
?LINT:set d_llrintl
: see if llrintl exists
set llrintl d_llrintl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_llrintl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Chk_MANI.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Chk_MANI.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  14:57:25  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/31  09:33:14  ram
?RCS: patch44: now lists Begin instead of Myinit in its dependencies
?RCS: patch44: leading comment now explains how this unit is included
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit checks the package by making sure
 every file listed in MANIFEST
?X: is present. It is systematically "included" via the Finish unit (which
?X: is always present in every Configure script), although it may result in
?X: an empty inclusion when no MANIFEST is present.
?X:
?MAKE:Chk_MANI: Begin c n rsrc
?MAKE: -pick wipe $@ %<
?T:filelist ans tmppwd
?X: This check happens at metaconfig-time, so it's ok to hard-code the path.
@if {test -f ../MANIFEST}
: Now test for existence of everything in MANIFEST
echo " "
if test -f "$rsrc/MANIFEST"; then
 echo "First let's make sure your kit is complete.  Checking..." >&4
?X:
?X: Files spelled uppercased and beginning with PACK are produced by the
?X: shell archive builder and may be removed by the user. Usually, they are
?X: not listed in the MANIFEST file, but you never know...
?X:
?X: "split -l" is the new way of running a split, but we also try the older way
?X:
 awk '$1 !~ /PACK[A-Z]+/ {print $1}' "$rsrc/MANIFEST" | \
  (split -l 50 2>/dev/null || split -50)
 rm -f missing
 tmppwd=`pwd`
 for
 filelist in x??; do
  (cd "$rsrc"; ls `cat "$tmppwd/$filelist"` \
   >/dev/null 2>>"$tmppwd/missing")
 done
 if test -s missing; then
  cat missing >&4
  cat >&4 <<'EOM'
```

```
THIS PACKAGE SEEMS TO BE INCOMPLETE.

You have the option of continuing the configuration process, despite the
distinct possibility that your kit is damaged, by typing 'y'es.  If you
do, don't blame me if something goes wrong.  I advise you to type 'n'o
and contact the author (<MAINTLOC>).

EOM
?X: Can't use $echo at this early stage
  echo $n "Continue? [n] $c" >&4
  read ans
  case "$ans" in
  y*)
   echo "Continuing..." >&4
   rm -f missing
   ;;
  *)
?X:
?X: Use kill and not exit, so that the trap gets executed to clean up
?X:
   echo "ABORTING..." >&4
   kill $$
   ;;
  esac
 else
  echo "Looks good..."
 fi
else
 echo "There is no MANIFEST file.  I hope your kit is complete !"
fi
rm -f missing x??

@end
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Chk_MANI.U
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```
?RCS: $Id$
?RCS:
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?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Tom Tromey <tromey@cygnus.com>
?RCS:
?RCS: $Log: src.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:23:54  ram
?RCS: patch61: created
?RCS:
?MAKE:src +rsrc: Options package contains
?MAKE: -pick add $@ %<
?Y:TOP
?S:src (srcdir):
?S: This variable holds the (possibly relative) path of the package source.
?S: It is up to the Makefile to use this variable and set VPATH accordingly
?S: to find the sources remotely.  Use $pkgsrc to have an absolute path.
?S:.
?S:rsrc
 (relsrcdir):
?S: This variable holds a potentially relative path to the package
?S: source.  The contents are correct for the configuration environment,
?S: i.e. there might be an extra .. prepended to get out of the UU dir.
?S: Configure units should use this, not the src variable.
?S:.
: Find the path to the source tree
case "$src" in
") case "$0" in
   */*) src=`echo $0 | sed -e 's%/[^/][^/]*$%%'`
        case "$src" in
  /*) ;;
  .) ;;
        *) src=`cd ../$src && pwd` ;;
  esac
        ;;
   *)   src='.';;
   esac;;
esac
case "$src" in
") src=/
 rsrc=/
 ;;
/*) rsrc="$src";;
*) rsrc="../$src";;
esac
?X:
?X: Now check whether we have found the right source tree (i.e. the one for the
?X: package we're about to configure). The original unit from Tom Tromey forced
?X: the user to pick a unique file from his distribution, and we were merely
```

```
?X: checking the existence of that file. I prefer to rely on Configure (which
?X: we know *is* present since this unit is
 part of it!) and look for the
?X: definition of the package variable, making sure it's the same as ours.
?X: If it matches, we know we found the right source tree. -- RAM, 15/03/96
?X:
if test -f $rsrc/Configure && \
 $contains "^package='$package'\$" $rsrc/Configure >/dev/null 2>&1
then
  : found it, so we are ok.
else
?X: Otherwise try "." and up to 4 parent directories...
?X: Note that we prepend a ".." to get out of the configuration environment.
 rsrc=''
 for src in . .. ../.. ../../.. ../../../..; do
  if test -f ../$src/Configure && \
   $contains "^package=$package$" ../$src/Configure >/dev/null 2>&1
  then
   rsrc=../$src
   break
  fi
 done
fi
case "$rsrc" in
'')
 cat <<EOM >&4

Sorry, I can't seem to locate the source dir for $package.  Please start
Configure with an explicit path -- i.e. /some/path/Configure.

EOM
 exit 1
 ;;
?X: Don't echo anything if the sources are in . -- they should know already ;-)
?X: In that case, rsrc is ../. since we lookup from within UU
../.) rsrc='..';;
*)
 echo
 " "
 echo "Sources for $package found in \"$src\"." >&4
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/src.U
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```
?RCS: $Id$
?RCS:
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?X:
?X: This unit allows the duplication of the source tree to the current
?X: directory via symbolic links.  This must be requested explicitly
?X: by them issuing a -Dmksymlinks on the command line.
?X:
?MAKE:Mksymlinks: Mkdirp lns issymlink src rsrc pkgsrc
?MAKE: -pick add $@ %<
?F:!UU
?T: dir filename tmppwd filelist
?LINT:extern mksymlinks
@if {test -f ../MANIFEST}
: Duplicate the tree with symbolic links if -Dmksymlinks was supplied
case "$mksymlinks"
 in
$define|true|[yY]*)
 echo " "
 case "$src" in
 "|'.') echo "Cannot create symlinks in the original directory." >&4
  exit 1
  ;;
 *) case "$lns:$issymlink" in
  *"ln"*" -s:"*"test -"?)
   echo "Creating the symbolic links..." >&4
   echo "(First creating the subdirectories...)" >&4
   cd ..
   awk '{print $1}' $src/MANIFEST | grep / | sed 's:/[^/]*$::' | \
    sort -u | while true
   do
    read dir
    test -z "$dir" && break
    ./UU/mkdirp $dir 2>/dev/null
    if test -d $dir; then
     : ok
    else
     echo "Failed to create '$dir'.  Aborting." >&4
     exit 1
```

```
    fi
   done
   echo "(Now creating the symlinks...)" >&4
   awk '{print $1}' $src/MANIFEST | while true; do
    read filename
    test -z "$filename" && break
    if test -f $filename; then
     if $issymlink $filename; then
      rm -f $filename
     fi
    fi
    if test -f $filename; then
     echo "$filename already exists, not symlinking."
    else
?X: Note that the following works because "$pkgsrc" is absolute
     ln
 -s $pkgsrc/$filename $filename
    fi
   done
?X: Check that everything was correctly copied
   echo "(Checking current directory...)" >&4
   cd UU
   awk '$1 !~ /PACK[A-Z]+/ {print $1}' "$rsrc/MANIFEST" | \
    (split -l 50 2>/dev/null || split -50)
   rm -f missing
   tmppwd=`pwd`
   for filelist in x??; do
    (cd ..; ls `cat "$tmppwd/$filelist"` \
     >/dev/null 2>>"$tmppwd/missing")
   done
   if test -s missing; then
    echo "Failed duplication of source tree.  Aborting." >&4
    exit 1
   fi
   ;;
  *) echo "(I cannot figure out how to do symbolic links, ignoring!)" >&4
   ;;
  esac
  ;;
 esac
 ;;
esac

@end
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Mksymlinks.U

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```
?RCS: $Id: modetype.U,v 3.0.1.1 1994/10/29 16:25:07 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: modetype.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:25:07  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:modetype: Myread Typedef
?MAKE: -pick add $@ %<
?S:modetype:
?S: This variable defines modetype to be something like mode_t,
?S: int, unsigned short, or whatever type is used to declare file
?S: modes for system calls.
?S:.
?C:Mode_t:
?C: This symbol holds the type used to declare
 file modes
?C: for systems calls.  It is usually mode_t, but may be
?C: int or unsigned short.  It may be necessary to include <sys/types.h>
?C: to get any typedef'ed information.
?C:.
?H:#define Mode_t $modetype  /* file mode parameter for system calls */
?H:.
?LINT:set modetype
: see what type is used for mode_t
rp="What is the type used for file modes for system calls (e.g. fchmod())?"
set mode_t modetype int stdio.h sys/types.h
eval $typedef_ask
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/modetype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_ustat.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
```

```
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_ustat: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_ustat:
?S: This variable conditionally defines the I_USTAT symbol, and indicates
?S: whether a C program should include <ustat.h>.
?S:.
?C:I_USTAT:
?C: This symbol, if defined, indicates that <ustat.h> exists and
?C: should be included.
?C:.
?H:#$i_ustat I_USTAT  /**/
?H:.
?LINT:set i_ustat
: see if this is a ustat.h system
set ustat.h i_ustat
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_ustat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_readlink.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_readlink.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:11:52  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_readlink: Inlibc
?MAKE: -pick add $@ %<
?S:d_readlink:
?S: This variable conditionally defines the HAS_READLINK symbol, which
?S: indicates to the C program that the readlink() routine is available
?S: to read the value of a symbolic link.
```

```
?S:.
?C:HAS_READLINK :
?C: This
 symbol, if defined, indicates that the readlink routine is
?C: available to read the value of a symbolic link.
?C:.
?H:#$d_readlink HAS_READLINK  /**/
?H:.
?LINT:set d_readlink
: see if readlink exists
set readlink d_readlink
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_readlink.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endsent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_endsent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_endsent: Inlibc
?MAKE: -pick add $@ %<
?S:d_endsent:
?S: This variable conditionally defines HAS_ENDSERVENT if endservent() is
?S: available to close whatever was being used for service queries.
?S:.
?C:HAS_ENDSERVENT:
?C: This symbol, if defined, indicates that the endservent() routine is
?C: available to close whatever was being used for
 service queries.
?C:.
?H:#$d_endsent HAS_ENDSERVENT  /**/
?H:.
?LINT:set d_endsent
: see if endservent exists
set endservent d_endsent
```

```
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_endsent.U
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```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: sizetype.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:32:10  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:sizetype: Myread Typedef
?MAKE: -pick add $@ %<
?S:sizetype:
?S: This variable defines sizetype to be something like size_t,
?S: unsigned long, or whatever type is used to declare length
?S: parameters for string functions.
?S:.
?C:Size_t:
?C: This symbol holds the type used to declare length parameters
?C: for string
 functions.  It is usually size_t, but may be
?C: unsigned long, int, etc.  It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Size_t $sizetype  /* length paramater for string functions */
?H:.
: see what type is used for size_t
set size_t sizetype 'unsigned int' stdio.h sys/types.h
eval $typedef
dflt="$sizetype"
echo " "
rp="What type is used for the length parameter for string functions?"
. ./myread
sizetype="$ans"
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/sizetype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sunscanf.U,v 3.0 1993/08/18 12:09:54 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sunscanf.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:sunscanf: cat rm Compile Myread test Setvar
?MAKE: -pick add $@ %<
?S:sunscanf:
?S: This variable is set if this system runs with the Sun version
?S: of scanf.
?S:.
?C:SUNSCANF:
?C: This variable is set if this system runs with the Sun version
?C: of scanf.
?C:.
?H:#$sunscanf SUNSCANF  /**/
?H:.
?LINT:set sunscanf
?F:!scanf
: check to see what
 kinda scanf your using.
echo " "
echo "Checking to see what flavor of scanf you have..." >&4
$cat >scanf.c <<'EOCP'
int main()
{
 float value;

 sscanf("4.5","%g",&value);
 printf("%d\n", value == 4.5);
}
EOCP
set scanf
if eval $compile_ok; then
```

```
 if $test `./scanf` = 0; then
  echo "Hmm.. seems you are not running the USG flavor.."
  val="$undef"
 else
  echo "Uh... you are running the USG flavor of scanf."
  val="$define"
 fi
else
 echo "(I can't seem to compile the test program... Guessing)"
 val="$undef"
fi
set sunscanf
eval $setvar
$rm -f scanf*
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/sunscanf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endprotoent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_endprotoent_r endprotoent_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_endprotoent_r:
?S: This variable conditionally defines the HAS_ENDPROTOENT_R symbol,
?S: which indicates to the C program that the endprotoent_r()
?S: routine is available.
?S:.
?S:endprotoent_r_proto:
?S: This variable encodes the prototype of endprotoent_r.
?S: It is zero if d_endprotoent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endprotoent_r
?S: is defined.
?S:.
?C:HAS_ENDPROTOENT_R:
?C: This symbol, if defined, indicates that the endprotoent_r
 routine
?C: is available to endprotoent re-entrantly.
?C:.
?C:ENDPROTOENT_R_PROTO:
```

```
?C: This symbol encodes the prototype of endprotoent_r.
?C: It is zero if d_endprotoent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endprotoent_r
?C: is defined.
?C:.
?H:#$d_endprotoent_r HAS_ENDPROTOENT_R /**/
?H:#define ENDPROTOENT_R_PROTO $endprotoent_r_proto /**/
?H:.
?T:try hdrs d_endprotoent_r_proto
: see if endprotoent_r exists
set endprotoent_r d_endprotoent_r
eval $inlibc
case "$d_endprotoent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_endprotoent_r_proto:$usethreads" in
 ":define") d_endprotoent_r_proto=define
  set d_endprotoent_r_proto endprotoent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_endprotoent_r_proto" in
 define)
 case "$endprotoent_r_proto" in
 "|0) try='int endprotoent_r(struct protoent_data*);'
 ./protochk "$extern_C $try" $hdrs && endprotoent_r_proto=I_D ;;
 esac
 case "$endprotoent_r_proto"
 in
 "|0) try='void endprotoent_r(struct protoent_data*);'
 ./protochk "$extern_C $try" $hdrs && endprotoent_r_proto=V_D ;;
 esac
 case "$endprotoent_r_proto" in
 "|0) d_endprotoent_r=undef
  endprotoent_r_proto=0
  echo "Disabling endprotoent_r, cannot determine prototype." >&4 ;;
 * ) case "$endprotoent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) endprotoent_r_proto="REENTRANT_PROTO_$endprotoent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "endprotoent_r has no prototype, not using it." >&4 ;;
  esac
  d_endprotoent_r=undef
  endprotoent_r_proto=0
```

```
  ;;
 esac
 ;;
*) endprotoent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_endprotoent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:uselongdouble: Myread Oldconfig Setvar cat test usemorebits
?MAKE: -pick add $@ %<
?Y:TOP
?S:uselongdouble:
?S: This variable conditionally defines the USE_LONG_DOUBLE symbol,
?S: and indicates that long doubles should be used when available.
?S:.
?C:USE_LONG_DOUBLE:
?C: This symbol, if defined, indicates that long doubles should
?C: be used when available.
?C:.
?H:?%<:#ifndef USE_LONG_DOUBLE
?H:?%<:#$uselongdouble USE_LONG_DOUBLE  /**/
?H:?%<:#endif
?H:.
?LINT:extern ccflags
?LINT:use usemorebits
?F:!uselongdouble.cbu
: Check for uselongdouble support
case "$ccflags" in
*-DUSE_LONG_DOUBLE*|*-DUSE_MORE_BITS*) uselongdouble="$define" ;;
esac

case "$uselongdouble" in
$define|true|[yY]*) dflt='y';;
*)
 dflt='n';;
esac
cat <<EOM
```

```
Perl can be built to take advantage of long doubles which
(if available) may give more accuracy and range for floating point numbers.

If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp='Try to use long doubles if available?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*)      val="$undef" ;;
esac
set uselongdouble
eval $setvar

case "$uselongdouble" in
true|[yY]*) uselongdouble="$define" ;;
esac

: Look for a hint-file generated 'call-back-unit'.  If the
: user has specified that long doubles should be used,
: we may need to set or change some other defaults.
if $test -f uselongdouble.cbu; then
   echo "Your platform has some specific hints regarding long doubles, using them..."
   . ./uselongdouble.cbu
else
   case "$uselongdouble" in
 $define)
  $cat <<EOM
(Your platform does not have any specific hints for long doubles.)
EOM
 ;;
   esac
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/uselongdbl.U
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```
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_lc_monetary_2008: cat Compile rm_try d_locconv
?MAKE: -pick add $@ %<
```

```
?S:d_lc_monetary_2008:
?S: This variable conditionally defines HAS_LC_MONETARY_2008 if libc
?S: has the international currency locale rules from POSIX
?S: 1003.1-2008.
?S:.
?C:HAS_LC_MONETARY_2008:
?C: This symbol, if defined, indicates that the localeconv routine is
?C: available and has the additional members added in POSIX 1003.1-2008.
?C:.
?H:#$d_lc_monetary_2008 HAS_LC_MONETARY_2008  /**/
?H:.
: see if libc has the POSIX.1-2008 currency locale rules
case "$d_locconv:$d_lc_monetary_2008" in
$define:)
 $cat
 >try.c <<EOCP
#include <locale.h>
int main() {
 struct lconv *lc = localeconv();
 char int_p_cs_precedes = lc->int_p_cs_precedes;
 return 0;
}
EOCP
 set try
 if eval $compile; then
  d_lc_monetary_2008="$define"
 else
  d_lc_monetary_2008="$undef"
 fi;
 $rm_try
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lc_monetary_2008.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: models.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: models.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:13:17  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:02:39  ram
?RCS: patch6: added default for large
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:models split small medium large huge: test cat Myread sysman Oldconfig \
 Loc contains rm
?MAKE: -pick add $@ %<
?S:models:
?S: This variable contains
 the list of memory models supported by this
?S: system.  Possible component values are none, split, unsplit, small,
?S: medium, large, and huge.  The component values are space separated.
?S:.
?S:split:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program that will run in separate I and D space, for those
?S: machines that support separation of instruction and data space.  It is
?S: up to the Makefile to use this.
?S:.
?S:small:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program running with a small memory model.  It is up to
?S: the Makefile to use this.
?S:.
?S:medium:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program running with a medium memory model.  If the
?S: medium model is not supported, contains the flag to produce large
?S: model programs.  It is up to the Makefile to use this.
?S:.
?S:large:
?S: This variable contains a flag
 which will tell the C compiler and loader
?S: to produce a program running with a large memory model.  It is up to
?S: the Makefile to use this.
?S:.
?S:huge:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program running with a huge memory model.  If the
?S: huge model is not supported, contains the flag to produce large
?S: model programs.  It is up to the Makefile to use this.
?S:.
```

```
?T:unsplit tans modelcc
?F:!pdp11
?D:large=''
?LINT:extern cc
: see what memory models we can support
case "$models" in
'')
?X: We may not use Cppsym or we get a circular dependency through cc.
?X: But this should work regardless of which cc we eventually use.
 $cat >pdp11.c <<'EOP'
int main() {
#ifdef pdp11
 exit(0);
#else
 exit(1);
#endif
}
EOP
?X: Run cc in a subshell in case they don't have a 'cc' command.
?X: Presumably they do have gcc or something.
 case "$cc" in
 '') modelcc="$cc" ;;
 *) modelcc="cc" ;;
 esac
 ( $modelcc -o pdp11 pdp11.c ) >/dev/null 2>&1
 if
 $test -f pdp11 && ./pdp11 2>/dev/null; then
  dflt='unsplit split'
 else
  tans=`./loc . X /lib/small /lib/large /usr/lib/small /usr/lib/large /lib/medium /usr/lib/medium /lib/huge`
  case "$tans" in
  X) dflt='none';;
  *) if $test -d /lib/small || $test -d /usr/lib/small; then
    dflt='small'
   else
    dflt=''
   fi
   if $test -d /lib/medium || $test -d /usr/lib/medium; then
    dflt="$dflt medium"
   fi
   if $test -d /lib/large || $test -d /usr/lib/large; then
    dflt="$dflt large"
   fi
   if $test -d /lib/huge || $test -d /usr/lib/huge; then
    dflt="$dflt huge"
   fi
  esac
 fi;;
```

```
*) dflt="$models";;
esac
$cat <<EOM

Some systems have different model sizes.  On most systems they are called
small, medium, large, and huge.  On the PDP11 they are called unsplit and
split.  If your system doesn't support different memory models, say "none".
If you wish to force everything to one memory model, say "none" here and
put the appropriate flags later when it asks you for other
 cc and ld flags.
Venix systems may wish to put "none" and let the compiler figure things out.
(In the following question multiple model names should be space separated.)

The default for most systems is "none".

EOM
rp="Which memory models are supported?"
. ./myread
models="$ans"

case "$models" in
none)
 small="
 medium="
 large="
 huge="
 unsplit="
 split="
 ;;
*split)
 case "$split" in
 ") if $contains '\-i' $sysman/ld.1 >/dev/null 2>&1 || \
    $contains '\-i' $sysman/cc.1 >/dev/null 2>&1; then
   dflt='-i'
  else
   dflt='none'
  fi;;
 *) dflt="$split";;
 esac
 rp="What flag indicates separate I and D space?"
 . ./myread
 tans="$ans"
 case "$tans" in
 none) tans=";;
 esac
 split="$tans"
 unsplit=";;
*large*|*small*|*medium*|*huge*)
```

```
case "$models" in
*large*)
 case "$large" in
 ") dflt='-Ml';;
 *) dflt="$large";;
 esac
rp="What flag indicates large model?"
. ./myread
tans="$ans"
case "$tans" in
none) tans=";
esac
large="$tans";;
*) large=";;
esac
case "$models"
in
*huge*) case "$huge" in
 ") dflt='-Mh';;
 *) dflt="$huge";;
 esac
 rp="What flag indicates huge model?"
 . ./myread
 tans="$ans"
 case "$tans" in
 none) tans=";
 esac
 huge="$tans";;
*) huge="$large";;
esac
case "$models" in
*medium*) case "$medium" in
 ") dflt='-Mm';;
 *) dflt="$medium";;
 esac
 rp="What flag indicates medium model?"
 . ./myread
 tans="$ans"
 case "$tans" in
 none) tans=";
 esac
 medium="$tans";;
*) medium="$large";;
esac
case "$models" in
*small*) case "$small" in
 ") dflt='none';;
 *) dflt="$small";;
```

```
  esac
  rp="What flag indicates small model?"
  . ./myread
  tans="$ans"
  case "$tans" in
  none) tans=";
  esac
  small="$tans";;
 *) small=";;
 esac
 ;;
*)
 echo "Unrecognized memory models--you may have to edit Makefile.SH" >&4
 ;;
esac
$rm -f pdp11.* pdp11
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/models.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setgrent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_setgrent_r setgrent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_grp extern_C
?MAKE: -pick add $@ %<
?S:d_setgrent_r:
?S: This variable conditionally defines the HAS_SETGRENT_R symbol,
?S: which indicates to the C program that the setgrent_r()
?S: routine is available.
?S:.
?S:setgrent_r_proto:
?S: This variable encodes the prototype of setgrent_r.
?S: It is zero if d_setgrent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setgrent_r
?S: is defined.
?S:.
?C:HAS_SETGRENT_R:
?C: This symbol, if defined, indicates that the setgrent_r routine
?C: is available to
```

```
 setgrent re-entrantly.
?C:.
?C:SETGRENT_R_PROTO:
?C: This symbol encodes the prototype of setgrent_r.
?C: It is zero if d_setgrent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setgrent_r
?C: is defined.
?C:.
?H:#$d_setgrent_r HAS_SETGRENT_R /**/
?H:#define SETGRENT_R_PROTO $setgrent_r_proto /**/
?H:.
?T:try hdrs d_setgrent_r_proto
: see if setgrent_r exists
set setgrent_r d_setgrent_r
eval $inlibc
case "$d_setgrent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_grp grp.h"
 case "$d_setgrent_r_proto:$usethreads" in
 ":define") d_setgrent_r_proto=define
  set d_setgrent_r_proto setgrent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_setgrent_r_proto" in
 define)
 case "$setgrent_r_proto" in
 "|0) try='int setgrent_r(FILE**);'
 ./protochk "$extern_C $try" $hdrs && setgrent_r_proto=I_H ;;
 esac
 case "$setgrent_r_proto" in
 "|0) try='void setgrent_r(FILE**);'
 ./protochk "$extern_C $try" $hdrs && setgrent_r_proto=V_H ;;
 esac
 case "$setgrent_r_proto"
 in
 "|0) d_setgrent_r=undef
  setgrent_r_proto=0
  echo "Disabling setgrent_r, cannot determine prototype." >&4 ;;
 * ) case "$setgrent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) setgrent_r_proto="REENTRANT_PROTO_$setgrent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "setgrent_r has no prototype, not using it." >&4 ;;
```

```
  esac
  d_setgrent_r=undef
  setgrent_r_proto=0
  ;;
 esac
 ;;
*) setgrent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_setgrent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isnormal: cat Compile Setvar rm_try
?MAKE: -pick add $@ %<
?S:d_isnormal:
?S: This variable conditionally defines the HAS_ISNORMAL symbol, which
?S: indicates to the C program that the isnormal() routine is available.
?S:.
?C:HAS_ISNORMAL:
?C: This symbol, if defined, indicates that the isnormal routine is
?C: available to check whether a double is normal (non-zero normalized).
?C:.
?H:#$d_isnormal HAS_ISNORMAL  /**/
?H:.
?LINT:set d_isnormal
: check for isnormal
echo "Checking to see if you have isnormal..." >&4
$cat >try.c <<EOCP
#include <math.h>
int main() { return isnormal(0.0); }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have isnormal."
else
 val="$undef"
 echo "You do not have isnormal."
fi
$rm_try
set d_isnormal
eval $setvar
```

Found
 in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_isnormal.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_acosh: Inlibc
?MAKE: -pick add $@ %<
?S:d_acosh:
?S: This variable conditionally defines the HAS_ACOSH symbol, which
?S: indicates to the C program that the acosh() routine is available.
?S:.
?C:HAS_ACOSH:
?C: This symbol, if defined, indicates that the acosh routine is
?C: available to do the inverse hyperbolic cosine function.
?C:.
?H:#$d_acosh HAS_ACOSH  /**/
?H:.
?LINT:set d_acosh
: see if acosh exists
set acosh d_acosh
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_acosh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_rename.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_rename.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_rename: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_rename:
?S: This variable conditionally defines the HAS_RENAME symbol, which
?S: indicates to the C program that the rename() routine is available
?S: to rename files.
?S:.
?C:HAS_RENAME (RENAME):
?C: This symbol, if defined, indicates that the rename routine is available
?C: to rename files.
  Otherwise you should do the unlink(), link(), unlink()
?C: trick.
?C:.
?H:#$d_rename HAS_RENAME /**/
?H:.
?LINT:set d_rename
: see if rename exists
set rename d_rename
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_rename.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_times.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:07:50  ram
?RCS: patch56: typo fix, sytem -> system
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:14:00  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: What is the type returned by times() ?
?X:
?X: Force inclusion of <sys/types.h>
?X:INC: i_systypes
```

```
?MAKE:d_times clocktype: Csym Myread Typedef i_systimes
?MAKE: -pick
 add $@ %<
?S:d_times:
?S: This variable conditionally defines the HAS_TIMES symbol, which indicates
?S: that the times() routine exists.  The times() routine is normally
?S: provided on UNIX systems. You may have to include <sys/times.h>.
?S:.
?S:clocktype:
?S: This variable holds the type returned by times(). It can be long,
?S: or clock_t on BSD sites (in which case <sys/types.h> should be
?S: included).
?S:.
?C:HAS_TIMES (TIMES):
?C: This symbol, if defined, indicates that the times() routine exists.
?C: Note that this became obsolete on some systems (SUNOS), which now
?C: use getrusage(). It may be necessary to include <sys/times.h>.
?C:.
?C:Clock_t (CLOCKTYPE):
?C: This symbol holds the type returned by times(). It can be long,
?C: or clock_t on BSD sites (in which case <sys/types.h> should be
?C: included).
?C:.
?H:#$d_times HAS_TIMES  /**/
?H:#define Clock_t $clocktype /* Clock time */
?H:.
?T:val inc
: see if times exists
echo " "
if set times val -f d_times; eval $csym;
 $val; then
 echo 'times() found.' >&4
 d_times="$define"
 inc=''
 case "$i_systimes" in
 "$define") inc='sys/times.h';;
 esac
 set clock_t clocktype long stdio.h sys/types.h $inc
 eval $typedef
 dflt="$clocktype"
 echo " "
 rp="What type is returned by times() on this system?"
 . ./myread
 clocktype="$ans"
else
 echo 'times() NOT found, hope that will do.' >&4
 d_times="$undef"
?X: The following is needed for typedef (won't like an empty variable)
```

```
 clocktype='int'
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_times.U
No license file was found, but licenses were detected in source scan.

```
*  You may redistribute only under the terms of the Artistic Licence,
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/files/Jmake.tmpl
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setnent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
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?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_setnent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setnent: Inlibc
?MAKE: -pick add $@ %<
?S:d_setnent:
?S: This variable conditionally defines HAS_SETNETENT if setnetent() is
?S: available.
?S:.
?C:HAS_SETNETENT:
?C: This symbol, if defined, indicates that the setnetent() routine is
?C: available.
?C:.
?H:#$d_setnent HAS_SETNETENT  /**/
?H:.
?LINT:set d_setnent
: see if setnetent exists
set
 setnetent d_setnent
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_setnent.U
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```
?RCS: $Id$
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: End.U,v $
?RCS: Revision 3.0  1993/08/18  12:04:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit serves as the goal which forces make to choose all the units that
?X: ask questions.  The $W on the ?MAKE: line is the list of all symbols wanted.
?X: To force any unit to be included, copy this unit to your private U directory
?X: and add the name of the unit desired to the ?MAKE: dependency line.
?X:
?MAKE:End: $W
?MAKE: -pick add $@ %<
?LINT:use $W
: end of configuration
 questions
echo " "
echo "End of configuration questions."
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/End.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2008 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:sGMTIME_max sGMTIME_min sLOCALTIME_max sLOCALTIME_min: cat rm_try \
 Setvar Compile run
?MAKE: -pick add $@ %<
?S:sGMTIME_max:
```

```
?S: This variable defines the maximum value of the time_t offset that
?S: the system function gmtime () accepts
?S:.
?S:sGMTIME_min:
?S: This variable defines the minimum value of the time_t offset that
?S: the system function gmtime () accepts
?S:.
?S:sLOCALTIME_max:
?S: This variable defines the maximum value of the time_t offset that
?S: the system function localtime () accepts
?S:.
?S:sLOCALTIME_min:
?S: This variable defines the minimum value of the time_t offset that
?S: the system function localtime () accepts
?S:.
?C:GMTIME_MAX:
?C: This symbol contains the maximum value
 for the time_t offset that
?C: the system function gmtime () accepts, and defaults to 0
?C:.
?C:GMTIME_MIN:
?C: This symbol contains the minimum value for the time_t offset that
?C: the system function gmtime () accepts, and defaults to 0
?C:.
?C:LOCALTIME_MAX:
?C: This symbol contains the maximum value for the time_t offset that
?C: the system function localtime () accepts, and defaults to 0
?C:.
?C:LOCALTIME_MIN:
?C: This symbol contains the minimum value for the time_t offset that
?C: the system function localtime () accepts, and defaults to 0
?C:.
?H:#define GMTIME_MAX  $sGMTIME_max /**/
?H:#define GMTIME_MIN  $sGMTIME_min /**/
?H:#define LOCALTIME_MAX $sLOCALTIME_max /**/
?H:#define LOCALTIME_MIN $sLOCALTIME_min /**/
?H:.
?D:sGMTIME_max=0
?D:sGMTIME_min=0
?D:sLOCALTIME_max=0
?D:sLOCALTIME_min=0
?F:!try
: Check the max offset that gmtime and localtime accept
echo "Checking max offsets that gmtime () accepts"

case "$sGMTIME_min/$sGMTIME_max" in
   0/0|/)
 $cat >try.c <<EOCP
```

```
#include
 <sys/types.h>
#include <stdio.h>
#include <time.h>

int i;
struct tm *tmp;
time_t pt;

void gm_check (time_t t, int min_year, int max_year)
{
   tmp = gmtime (&t);
   if ( tmp == NULL ||
 /* Check tm_year overflow */
  tmp->tm_year < min_year || tmp->tm_year > max_year)
 tmp = NULL;
   else
 pt = t;
   } /* gm_check */

int check_max ()
{
   tmp = NULL;
   pt  = 0;
#ifdef MAXLONG
   gm_check (MAXLONG, 69, 0x7fffffff);
#endif
   if (tmp == NULL || tmp->tm_year < 0) {
 for (i = 63; i >= 0; i--) {
     time_t x = pt | ((time_t)1 << i);
     if (x < 0 || x < pt) continue;
     gm_check (x, 69, 0x7fffffff);
     }
 }
   printf ("sGMTIME_max=%ld\n", pt);
   return (0);
   } /* check_max */

int check_min ()
{
   tmp = NULL;
   pt  = 0;
#ifdef MINLONG
   gm_check (MINLONG, -1900, 70);
#endif
   if (tmp == NULL) {
 for (i = 36; i >= 0; i--) {
     time_t x = pt - ((time_t)1 << i);
```

```
    if (x > 0) continue;
    gm_check (x, -1900, 70);
    }
 }
   printf ("sGMTIME_min=%ld\n",
 pt);
   return (0);
   } /* check_min */

int main (int argc, char *argv[])
{
   /* fprintf (stderr, "Sizeof time_t = %ld\n", sizeof (time_t)); */
   check_max ();
   check_min ();
   return (0);
   } /* main */
EOCP
 set try
 if eval $compile; then
    eval `$run ./try 2>/dev/null`
 else
    echo "Cannot determine sGMTIME_max and sGMTIME_min." >&4
    fi
 $rm_try
 ;;
   esac

echo "Checking max offsets that localtime () accepts"

case "$sLOCALTIME_min/$sLOCALTIME_max" in
   0/0|/)
 $cat >try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#include <time.h>

int i;
struct tm *tmp;
time_t pt;

void local_check (time_t t, int min_year, int max_year)
{
   if (sizeof (time_t) > 4 && t > 0x7fffffffffff000LL)
 tmp = NULL;
   else
 tmp = localtime (&t);
   if ( tmp == NULL ||
 /* Check tm_year overflow */
```

```
  tmp->tm_year < min_year || tmp->tm_year > max_year)
 tmp = NULL;
   else
 pt = t;
   } /* local_check */

int check_max ()
{
   tmp = NULL;
   pt  = 0;
#ifdef
 MAXLONG
   local_check (MAXLONG, 69, 0x7fffffff);
#endif
   if (tmp == NULL || tmp->tm_year < 0) {
 for (i = 63; i >= 0; i--) {
     time_t x = pt | ((time_t)1 << i);
     if (x < 0 || x < pt) continue;
     local_check (x, 69, 0x7fffffff);
     }
 }
   printf ("sLOCALTIME_max=%ld\n", pt);
   return (0);
  } /* check_max */

int check_min ()
{
   tmp = NULL;
   pt  = 0;
#ifdef MINLONG
   local_check (MINLONG, -1900, 70);
#endif
   if (tmp == NULL) {
 for (i = 36; i >= 0; i--) {
     time_t x = pt - ((time_t)1 << i);
     if (x > 0) continue;
     local_check (x, -1900, 70);
     }
 }
   printf ("sLOCALTIME_min=%ld\n", pt);
   return (0);
   } /* check_min */

int main (int argc, char *argv[])
{
   check_max ();
   check_min ();
   return (0);
```

```
  } /* main */
EOCP
 set try
 if eval $compile; then
    eval `$run ./try 2>/dev/null`
 else
    echo "Cannot determine sLOCALTIME_max and sLOCALTIME_min." >&4
    fi
 $rm_try
 ;;
  esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/time_size.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: intsize.U,v 3.0.1.2 1997/02/28 15:55:26 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: intsize.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:55:26  ram
?RCS: patch61: avoid prompting the user if the test runs ok
?RCS: patch61: moved code from longsize.U into there
?RCS: patch61: new tests for shortsize as well
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:21:06  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:intsize longsize
 shortsize: Compile Myread cat run i_stdlib rm_try
?MAKE: -pick add $@ %<
?S:intsize:
?S: This variable contains the value of the INTSIZE symbol, which
?S: indicates to the C program how many bytes there are in an int.
?S:.
?S:longsize:
?S: This variable contains the value of the LONGSIZE symbol, which
```

```
?S: indicates to the C program how many bytes there are in a long.
?S:.
?S:shortsize:
?S: This variable contains the value of the SHORTSIZE symbol which
?S: indicates to the C program how many bytes there are in a short.
?S:.
?C:INTSIZE:
?C: This symbol contains the value of sizeof(int) so that the C
?C: preprocessor can make decisions based on it.
?C:.
?C:LONGSIZE:
?C: This symbol contains the value of sizeof(long) so that the C
?C: preprocessor can make decisions based on it.
?C:.
?C:SHORTSIZE:
?C: This symbol contains the value of sizeof(short) so that the C
?C: preprocessor can make decisions based on it.
?C:.
?H:#define INTSIZE $intsize  /**/
?H:#define LONGSIZE $longsize  /**/
?H:#define
 SHORTSIZE $shortsize  /**/
?H:.
?F:!try
: check for lengths of integral types
echo " "
case "$intsize" in
")
 echo "Checking to see how big your integers are..." >&4
 $cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
{
@if INTSIZE || intsize
 printf("intsize=%d;\n", (int)sizeof(int));
@end
@if LONGSIZE || longsize
 printf("longsize=%d;\n", (int)sizeof(long));
@end
@if SHORTSIZE || shortsize
 printf("shortsize=%d;\n", (int)sizeof(short));
@end
 exit(0);
}
```

```
EOCP
 set try
 if eval $compile_ok && $run ./try > /dev/null; then
  eval `$run ./try`
@if INTSIZE || intsize
  echo "Your integers are $intsize bytes long."
@end
@if LONGSIZE || longsize
  echo "Your long integers are $longsize bytes long."
@end
@if SHORTSIZE || shortsize
  echo "Your short integers are $shortsize bytes long."
@end
 else
  $cat >&4 <<EOM
!
Help! I can't compile and run the intsize test program: please enlighten me!
(This is probably a misconfiguration
 in your system or libraries, and
you really ought to fix it.  Still, I'll try anyway.)
!
EOM
@if INTSIZE || intsize
  dflt=4
  rp="What is the size of an integer (in bytes)?"
  . ./myread
  intsize="$ans"
@end
@if LONGSIZE || longsize
  dflt=$intsize
  rp="What is the size of a long integer (in bytes)?"
  . ./myread
  longsize="$ans"
@end
@if SHORTSIZE || shortsize
  dflt=2
  rp="What is the size of a short integer (in bytes)?"
  . ./myread
  shortsize="$ans"
@end
 fi
 ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/a_dvisory/intsize.U

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```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_recvmsg: Inlibc
?MAKE: -pick add $@ %<
?S:d_recvmsg:
?S: This variable conditionally defines the HAS_RECVMSG symbol, which
?S: indicates to the C program that the recvmsg() routine is available.
?S:.
?C:HAS_RECVMSG:
?C: This symbol, if defined, indicates that the recvmsg routine is
?C: available to send structured socket messages.
?C:.
?H:#$d_recvmsg HAS_RECVMSG  /**/
?H:.
?LINT:set d_recvmsg
: see if recvmsg exists
set recvmsg d_recvmsg
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_recvmsg.U
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```
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_sigprocmask: Inlibc
?MAKE: -pick add $@ %<
?S:d_sigprocmask:
?S: This variable conditionally defines HAS_SIGPROCMASK
?S: if sigprocmask() is available to examine or change the signal mask
?S: of the calling process.
?S:.
```

```
?C:HAS_SIGPROCMASK:
?C: This symbol, if defined, indicates that the sigprocmask
?C: system call is available to examine or change the signal mask
?C: of the calling process.
?C:.
?H:#$d_sigprocmask HAS_SIGPROCMASK  /**/
?H:.
?LINT:set d_sigprocmask
: see if sigprocmask exists
set sigprocmask d_sigprocmask
eval
 $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sigprocmask.U
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```
?RCS: $Id: vendorlib.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorlib.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:d_vendorlib vendorlib vendorlibexp installvendorlib vendorlib_stem: \
 Getfile Setprefixvar Oldconfig Prefixit package vendorprefix sed \
 installstyle version
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorlib:
?S: This variable contains the eventual value of the VENDORLIB symbol,
?S: which is the name of the private library for this package.
?S: The standard
 distribution will put nothing in this directory.
?S: Vendors who distribute perl may wish to place their own
?S: modules in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorlibexp:
```

```
?S: This variable is the ~name expanded version of vendorlib, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorlib="
?S:installvendorlib:
?S: This variable is really the same as vendorlibexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?S:d_vendorlib:
?S: This variable conditionally defines PERL_VENDORLIB.
?S:.
?S:vendorlib_stem:
?S: This variable is $vendorlibexp with any trailing version-specific component
?S: removed.  The elements in inc_version_list (inc_version_list.U) can
?S: be tacked onto this variable to generate a list of directories to search.
?S:.
?C:PERL_VENDORLIB:
?C: If defined, this symbol contains
 the name of a private library.
?C: The library is private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.  The program
?C: should be prepared to do ~ expansion.
?C: The standard distribution will put nothing in this directory.
?C: Vendors who distribute perl may wish to place their own
?C: modules in this directory with
?C:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?C: or equivalent.  See INSTALL for details.
?C:.
?C:PERL_VENDORLIB_EXP:
?C: This symbol contains the ~name expanded version of VENDORLIB, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?C:PERL_VENDORLIB_STEM:
?C: This define is PERL_VENDORLIB_EXP with any trailing version-specific component
?C: removed.  The elements in inc_version_list (inc_version_list.U) can
?C: be tacked onto this variable to generate a list of directories to search.
?C:.
?H:#$d_vendorlib PERL_VENDORLIB "$vendorlib"  /**/
?H:#$d_vendorlib PERL_VENDORLIB_EXP
 "$vendorlibexp"  /**/
?H:#$d_vendorlib PERL_VENDORLIB_STEM "$vendorlib_stem"  /**/
?H:.
?T:prog
?LINT:change prefixvar
?LINT:set installvendorlib
: Set the vendorlib variables
case "$vendorprefix" in
```

```
") d_vendorlib="$undef"
 vendorlib="
 vendorlibexp="
 ;;
*) d_vendorlib="$define"
 : determine where vendor-supplied modules go.
 : Usual default is /usr/local/lib/perl5/vendor_perl/$version
 case "$vendorlib" in
 ")
?X:  remove any trailing -3.0 or other version identification
  prog=`echo $package | $sed 's/-*[0-9.]*$//'`
  case "$installstyle" in
  *lib/perl5*) dflt=$vendorprefix/lib/$package/vendor_$prog/$version ;;
  *)      dflt=$vendorprefix/lib/vendor_$prog/$version ;;
  esac
  ;;
 *) dflt="$vendorlib"
  ;;
 esac
 fn=d~+
 rp='Pathname for the vendor-supplied library files?'
 . ./getfile
 vendorlib="$ans"
 vendorlibexp="$ansexp"
 ;;
esac
vendorlib_stem=`echo "$vendorlibexp" | sed "s,/$version$,,"`
prefixvar=vendorlib
. ./installprefix
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/vendorlib.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_lgamma: Inlibc
?MAKE: -pick add $@ %<
?S:d_lgamma:
?S: This variable conditionally defines the HAS_LGAMMA symbol, which
?S: indicates to the C program that the lgamma() routine is available
?S: for the log gamma function.  See also d_tgamma and d_lgamma_r.
?S:.
?C:HAS_LGAMMA:
?C: This symbol, if defined, indicates that the lgamma routine is
?C: available to do the log gamma function.  See also HAS_TGAMMA and
```

```
?C: HAS_LGAMMA_R.
?C:.
?H:#$d_lgamma HAS_LGAMMA  /**/
?H:.
?LINT:set d_lgamma
: see if lgamma exists
set lgamma d_lgamma
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lgamma.U
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```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isnanl: Inlibc
?MAKE: -pick add $@ %<
?S:d_isnanl:
?S: This variable conditionally defines the HAS_ISNANL symbol, which
?S: indicates to the C program that the isnanl() routine is available.
?S:.
?C:HAS_ISNANL:
?C: This symbol, if defined, indicates that the isnanl routine is
?C: available to check whether a long double is a NaN.
?C:.
?H:#$d_isnanl HAS_ISNANL  /**/
?H:.
?LINT:set d_isnanl
: see if isnanl exists
set isnanl d_isnanl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_isnanl.U
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```
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?RCS:
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```

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_timegm: Inlibc
?MAKE: -pick add $@ %<
?S:d_timegm:
?S: This variable conditionally defines the HAS_TIMEGM symbol, which
?S: indicates to the C program that the timegm () routine is available.
?S:.
?C:HAS_TIMEGM:
?C: This symbol, if defined, indicates that the timegm routine is
?C: available to do the opposite of gmtime ()
?C:.
?H:#$d_timegm HAS_TIMEGM  /**/
?H:.
?LINT:set d_timegm
: see if timegm exists
set timegm d_timegm
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_timegm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Config_sh.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  14:57:53  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.2  1995/01/11  14:53:31  ram
?RCS: patch45: moved path stripping from d_portable.U to end of Configure
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:50:37  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
```

```
?X: This unit ends up producing the config.sh
 script, which contains all the
?X: definitions figured out by Configure.  The add.Config_sh command knows
?X: which variables need to be remembered.  It also adds the EOT (ends the
?X: here document redirection with variable substitution).
?X:
?MAKE:Config_sh: cf_time cf_by test spitshell startsh myuname Myread \
 End Obsol_sh Loc +d_portable package src cat sed
?MAKE: -pick add.Config_sh $@ %<
?MAKE: -pick add $@ ./Obsol_sh
?MAKE: -pick close.Config_sh $@ %<
?F:!config.over !config.arch
?T:file sfile xsed
?LINT:unclosed EOT
: back to where it started
if test -d ../UU; then
 cd ..
fi

: configuration may be unconditionally patched via a 'config.arch' file
if $test -f config.arch; then
 echo "I see a config.arch file, loading it." >&4
 . ./config.arch
fi

: configuration may be patched via a 'config.over' file
if $test -f config.over; then
 echo " "
 dflt=y
 rp='I see a config.over file.  Do you wish to load it?'
 . UU/myread
 case "$ans" in
 n*) echo "OK, I'll ignore it.";;
 *) . ./config.over
  echo
 "Configuration override changes have been loaded."
  ;;
 esac
fi

@if d_portable
: in case they want portability, strip down executable paths
?X:
?X: Strip down paths in located executables. For each file, e.g. vi, there
?X: is a $vi variable whose value is for instance '/usr/bin/vi'. By resetting
?X: $vi to 'vi', we rely on the PATH variable to locate the executable...
?X: In order to allow vi='/usr/bin/nvi' which will strip down to vi='nvi',
?X: we can't just say 'eval $file="'\$file'", we have to recourse to sed.
```

```
?X: We don't use basename since it is less portable than sed.
?X:
case "$d_portable" in
"$define")
 echo " "
 echo "Stripping down executable paths..." >&4
 xsed=$sed
 for file in $loclist $trylist; do
  eval sfile="\$$file"
  sfile=`echo $sfile | $xsed -e 's,.*/\(.*\),\1,'`
  eval $file="$sfile"
 done
 ;;
esac

@end
: create config.sh file
echo " "
echo "Creating config.sh..." >&4
$spitshell <<EOT >config.sh
$startsh
#
# This file was produced by running the
 Configure script. It holds all the
# definitions figured out by Configure. Should you modify one of these values,
# do not forget to propagate your changes by running "Configure -der". You may
# instead choose to run each of the .SH files by yourself, or "Configure -S".
#

# Package name      : $package
# Source directory  : $src
# Configuration time: $cf_time
# Configured by     : $cf_by
# Target system     : $myuname

EOT
?X: Command line options are saved by the Options.U unit in the
?X: temporary file UU/cmdline.opt
$test -f UU/cmdline.opt && $cat UU/cmdline.opt >> config.sh
$spitshell <<EOT >>config.sh
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Config_sh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_bcopy.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_bcopy.U,v $
?RCS: Revision 3.0.1.2  1993/10/16  13:48:04  ram
?RCS: patch12: added magic support for bcopy()
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:01:11  ram
?RCS: patch10: now only defines HAS_BCOPY, no macro remap on memcpy (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_bcopy: Inlibc
?MAKE: -pick add $@ %<
?S:d_bcopy:
?S: This variable conditionally defines the HAS_BCOPY
 symbol if
?S: the bcopy() routine is available to copy strings.
?S:.
?C:HAS_BCOPY:
?C: This symbol is defined if the bcopy() routine is available to
?C: copy blocks of memory.
?C:.
?H:#$d_bcopy HAS_BCOPY /**/
?H:.
?M:bcopy: HAS_BCOPY
?M:#ifndef HAS_BCOPY
?M:#ifndef bcopy
?M:#define bcopy(s,d,l) memcpy((d),(s),(l))
?M:#endif
?M:#endif
?M:.
?LINT:set d_bcopy
: see if bcopy exists
set bcopy d_bcopy
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_bcopy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_math.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_math.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:21:59  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:i_math: Inhdr
?MAKE: -pick add $@ %<
?X: Are there really systems that *DON'T* have math.h?
?S:i_math:
?S: This variable conditionally defines the I_MATH symbol, and indicates
?S: whether a C program may include <math.h>.
?S:.
?C:I_MATH:
?C: This symbol, if defined, indicates
 to the C program that it should
?C: include <math.h>.
?C:.
?H:#$i_math I_MATH  /**/
?H:.
?LINT:set i_math
: see if this is a math.h system
set math.h i_math
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_math.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endnent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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```

```
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_endnent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_endnent: Inlibc
?MAKE: -pick add $@ %<
?S:d_endnent:
?S: This variable conditionally defines HAS_ENDNETENT if endnetent() is
?S: available to close whatever was being used for network queries.
?S:.
?C:HAS_ENDNETENT:
?C: This symbol, if defined, indicates that the endnetent() routine is
?C: available to close whatever was being used for network
 queries.
?C:.
?H:#$d_endnent HAS_ENDNETENT  /**/
?H:.
?LINT:set d_endnent
: see if endnetent exists
set endnetent d_endnent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_endnent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_nan: Inlibc
?MAKE: -pick add $@ %<
?S:d_nan:
?S: This variable conditionally defines HAS_NAN if nan() is
?S: available to generate NaN.
?S:.
?C:HAS_NAN:
?C: This symbol, if defined, indicates that the nan routine is
?C: available to generate NaN.
?C:.
?H:#$d_nan HAS_NAN  /**/
?H:.
?LINT:set d_nan
: see if nan exists
set nan d_nan
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_nan.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strtoul.U,v 3.0.1.1 1997/02/28 15:46:43 ram Exp $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_strtoul.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:46:43  ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_strtoul: Inlibc cat longsize Compile run
?MAKE: -pick add $@ %<
?S:d_strtoul:
?S: This variable conditionally defines the HAS_STRTOUL symbol, which
?S: indicates to the C program that the strtoul() routine is available
?S: to provide conversion of strings to unsigned long.
?S:.
?C:HAS_STRTOUL (STRTOUL):
?C: This
 symbol, if defined, indicates that the strtoul routine is
?C: available to provide conversion of strings to unsigned long.
?C:.
?H:#$d_strtoul HAS_STRTOUL /**/
?H:.
?F:!try
: see if strtoul exists
set strtoul d_strtoul
eval $inlibc

case "$d_strtoul" in
"$define")
 $cat <<EOM
Checking whether your strtoul() works okay...
EOM
 $cat >try.c <<'EOCP'
#include <stdlib.h>
```

```
#include <errno.h>
#include <stdio.h>
static int bad = 0;
void check(const char *s, unsigned long eul, int een) {
 unsigned long gul;
 errno = 0;
 gul = strtoul(s, 0, 10);
 if (!((gul == eul) && (errno == een)))
  bad++;
}
int main() {
 check(" 1", 1L, 0);
 check(" 0", 0L, 0);
EOCP
 case "$longsize" in
 8)
    $cat >>try.c <<'EOCP'
 check("18446744073709551615", 18446744073709551615UL, 0);
 check("18446744073709551616", 18446744073709551615UL, ERANGE);
#if 0 /* strtoul() for /^-/ strings is undefined. */
 check("-1", 18446744073709551615UL, 0);
 check("-18446744073709551614", 2, 0);
 check("-18446744073709551615", 1,
 0);
 check("-18446744073709551616", 18446744073709551615UL, ERANGE);
 check("-18446744073709551617", 18446744073709551615UL, ERANGE);
#endif
EOCP
  ;;
 4)
     $cat >>try.c <<'EOCP'
 check("4294967295", 4294967295UL, 0);
 check("4294967296", 4294967295UL, ERANGE);
#if 0 /* strtoul() for /^-/ strings is undefined. */
 check("-1", 4294967295UL, 0);
 check("-4294967294", 2, 0);
 check("-4294967295", 1, 0);
 check("-4294967296", 4294967295UL, ERANGE);
 check("-4294967297", 4294967295UL, ERANGE);
#endif
EOCP
  ;;
 *)
: Should we write these tests to be more portable by sprintf-ing
: ~0 and then manipulating that char string as input for strtol?
  ;;
 esac
 $cat >>try.c <<'EOCP'
```

```
 if (!bad)
  printf("ok\n");
 return 0;
}
EOCP
 set try
 if eval $compile; then
  case "`$run ./try`" in
  ok) echo "Your strtoul() seems to be working okay." ;;
  *) cat <<EOM >&4
Your strtoul() doesn't seem to be working okay.
EOM
     d_strtoul="$undef"
     ;;
  esac
 else
  echo "(I can't seem to compile the test
 program--assuming it doesn't)"
  d_strtoul="$undef"
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_strtoul.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: ptrsize.U,v 3.0.1.1 1994/10/29 16:28:19 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: ptrsize.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:28:19  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:37  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:ptrsize: cat rm_try Myread Compile run use64bitall i_stdlib d_quad
?MAKE: -pick add $@ %<
?S:ptrsize:
```

```
?S: This variable contains the value of the PTRSIZE symbol, which
?S: indicates to the C program how many bytes there are in a pointer.
?S:.
?C:PTRSIZE:
?C: This
 symbol contains the size of a pointer, so that the C preprocessor
?C: can make decisions based on it.  It will be sizeof(void *) if
?C: the compiler supports (void *); otherwise it will be
?C: sizeof(char *).
?C:.
?H:#define PTRSIZE $ptrsize  /**/
?H:.
?F:!try
?LINT:extern use64bitint
: check for length of pointer
echo " "
case "$ptrsize" in
")
 echo "Checking to see how big your pointers are..." >&4
 $cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
{
   printf("%d\n", (int)sizeof(void *));
   exit(0);
}
EOCP
 set try
 if eval $compile_ok; then
  ptrsize=`$run ./try`
  echo "Your pointers are $ptrsize bytes long."
 else
  dflt='4'
  echo "(I can't seem to compile the test program.  Guessing...)" >&4
  rp="What is the size of a pointer (in bytes)?"
  . ./myread
  ptrsize="$ans"
 fi
 ;;
esac
$rm_try
case "$use64bitall" in
"$define"|true|[yY]*)
 case "$ptrsize" in
```

```
 4) cat <<EOM >&4

*** You
 have chosen a maximally 64-bit build,
*** but your pointers are only 4 bytes wide.
*** Please rerun Configure without -Duse64bitall.
EOM
  case "$d_quad" in
  define)
   cat <<EOM >&4
*** Since you have quads, you could possibly try with -Duse64bitint.
EOM
   ;;
  esac
  cat <<EOM >&4
*** Cannot continue, aborting.

EOM

  exit 1
  ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/ptrsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtoull: Inlibc d_longlong Compile cat run
?MAKE: -pick add $@ %<
?S:d_strtoull:
?S: This variable conditionally defines the HAS_STRTOULL symbol, which
?S: indicates to the C program that the strtoull() routine is available.
?S:.
?C:HAS_STRTOULL:
?C: This symbol, if defined, indicates that the strtoull routine is
?C: available to convert strings to unsigned long longs.
?C:.
?H:#$d_strtoull HAS_STRTOULL  /**/
```

```
?H:.
?F:!try
: see if strtoull exists
set strtoull d_strtoull
eval $inlibc

case "$d_longlong-$d_strtoull" in
"$define-$define")
 $cat <<EOM
Checking whether your strtoull() works okay...
EOM
 $cat >try.c <<'EOCP'
#include <stdlib.h>
#include <errno.h>
#ifdef __hpux
#define strtoull __strtoull
#endif
#include
 <stdio.h>
static int bad = 0;
void check(const char *s, long long eull, int een) {
 long long gull;
 errno = 0;
 gull = strtoull(s, 0, 10);
 if (!((gull == eull) && (errno == een)))
  bad++;
}
int main() {
 check(" 1",                                  1LL, 0);
 check(" 0",                                  0LL, 0);
 check("18446744073709551615",  18446744073709551615ULL, 0);
 check("18446744073709551616",  18446744073709551615ULL, ERANGE);
#if 0 /* strtoull() for /^-/ strings is undefined. */
 check("-1",                  18446744073709551615ULL, 0);
 check("-18446744073709551614",                    2LL, 0);
 check("-18446744073709551615",                    1LL, 0);
 check("-18446744073709551616", 18446744073709551615ULL, ERANGE);
 check("-18446744073709551617", 18446744073709551615ULL, ERANGE);
#endif
 if (!bad)
  printf("ok\n");
}
EOCP
 set try
 if eval $compile; then
  case "`$run ./try`" in
  ok) echo "Your strtoull() seems to be working okay."
```

```
 ;;
  *) cat <<EOM >&4
Your strtoull() doesn't seem to be working okay.
EOM
     d_strtoull="$undef"
     ;;
  esac
 else
  echo "(I can't seem to compile the test program--assuming it doesn't)"
  d_strtoull="$undef"
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strtoull.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_perror.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_perror.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:11:38  ram
?RCS: patch32: always define HAS_PERROR even when not used in C code
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_perror: Inlibc
?MAKE: -pick add $@ %<
?S:d_perror:
?S: This variable conditionally remaps perror to a null action and
?S: defines the symbol HAS_PERROR, which indicates to the C program
?S: that the perror()
 routine is not available to print system
?S: error messages.
?S:.
?C:HAS_PERROR ~ %<:
?C: This symbol, if defined, indicates that the perror() routine is
?C: available to print system error messages. If not defined, you should
```

```
?C: use your own diagnostic routine...
?C:.
?C:perror ~ %<:
?C: This symbol is maped to null if the  perror() routine is not
?C: available to print system error messages.
?C:.
?H:?%<:#$d_perror HAS_PERROR /**/
?H:?%<:#ifndef HAS_PERROR
?H:?%<:#define perror(s) ;  /* mapped to a null statement */
?H:?%<:#endif
?H:.
?LINT:set d_perror
: see if perror exists
set perror d_perror
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_perror.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_msync.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msync.U,v $
?RCS: Revision 3.0.1.1  1993/12/15  08:19:17  ram
?RCS: patch15: created
?RCS:
?MAKE:d_msync: Inlibc
?MAKE: -pick add $@ %<
?S:d_msync:
?S: This variable conditionally defines HAS_MSYNC if msync() is
?S: available to synchronize a mapped file.
?S:.
?C:HAS_MSYNC:
?C: This symbol, if defined, indicates that the msync system call is
?C: available to synchronize a mapped file.
?C:.
?H:#$d_msync HAS_MSYNC  /**/
?H:.
?LINT:set d_msync
```

```
: see if
 msync exists
set msync d_msync
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_msync.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_finite: Inlibc
?MAKE: -pick add $@ %<
?S:d_finite:
?S: This variable conditionally defines the HAS_FINITE symbol, which
?S: indicates to the C program that the finite() routine is available.
?S:.
?C:HAS_FINITE:
?C: This symbol, if defined, indicates that the finite routine is
?C: available to check whether a double is finite (non-infinity non-NaN).
?C:.
?H:#$d_finite HAS_FINITE  /**/
?H:.
?LINT:set d_finite
: see if finite exists
set finite d_finite
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_finite.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_modfl d_modflproto: Inlibc Compile Hasproto cat \
 test ccflags uselongdouble \
```

```
 d_sqrtl d_aintl d_copysignl d_ilogbl d_scalbnl d_frexpl d_ldexpl \
 d_truncl
?MAKE: -pick add $@ %<
?S:d_modfl:
?S: This variable conditionally defines the HAS_MODFL symbol, which
?S: indicates to the C program that the modfl() routine is available.
?S:.
?S:d_modflproto:
?S: This symbol, if defined, indicates that the system provides
?S: a prototype for the modfl() function.  Otherwise, it is up
?S: to the program to supply one.  C99 says it should be
?S:  long double modfl(long double, long double *);
?S:.
?C:HAS_MODFL:
?C: This symbol, if defined, indicates that the modfl routine is
?C: available to split a long double
 x into a fractional part f and
?C: an integer part i such that |f| < 1.0 and (f + i) = x.
?C:.
?C:HAS_MODFL_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the modfl() function.  Otherwise, it is up
?C: to the program to supply one.
?C:.
?H:#$d_modfl HAS_MODFL  /**/
?H:#$d_modflproto HAS_MODFL_PROTO  /**/
?H:.
?T:message
?LINT:set d_modfl
?LINT:set d_modflproto
?LINT:change ccflags
: see if modfl exists
set modfl d_modfl
eval $inlibc

: see if prototype for modfl is available
echo " "
set d_modflproto modfl define math.h
eval $hasproto

if $test "$uselongdouble" = "$define"; then
   message=""
   if $test "$d_sqrtl" != "$define"; then
 message="$message sqrtl"
   fi
   if $test "$d_modfl" != "$define"; then
 if $test "$d_truncl:$d_copysignl" = "$define:$define"; then
     echo "You have both truncl and copysignl, so I can emulate modfl."
```

```
 else
    if $test "$d_aintl:$d_copysignl" = "$define:$define"; then
  echo "You have both aintl
 and copysignl, so I can emulate modfl."
    else
  message="$message modfl"
    fi
 fi
   fi
   if $test "$d_frexpl" != "$define"; then
 if $test "$d_ilogbl:$d_scalbnl" = "$define:$define"; then
    echo "You have both ilogbl and scalbnl, so I can emulate frexpl."
 else
    message="$message frexpl"
 fi
   fi
   if $test "$d_ldexpl" != "$define"; then
 message="$message ldexpl"
   fi

   if $test "$message" != ""; then
 $cat <<EOM >&4

*** You requested the use of long doubles but you do not seem to have
*** the following mathematical functions needed for long double support:
***    $message
*** Please rerun Configure without -Duselongdouble and/or -Dusemorebits.
*** Cannot continue, aborting.

EOM

 exit 1
   fi
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_modfl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Unix.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:20:06  ram
?RCS: patch61: created
?RCS:
?X:
?X: The purpose of this unit is to define things that are common across all
?X: known UNIX platforms. If Configure is ported/used on a non-UNIX
?X: environment, then some of the following variables can be redefined in hint
?X: files.
?X:
?MAKE:Unix _a _o firstmakefile archobjs: Oldconfig
?MAKE: -pick add $@ %<
?S:_a (lib_ext):
?S: This variable defines the extension
 used for ordinary libraries.
?S: For unix, it is '.a'.  The '.' is included.  Other possible
?S: values include '.lib'.
?S:.
?S:_o (obj_ext):
?S: This variable defines the extension used for object files.
?S: For unix, it is '.o'.  The '.' is included.  Other possible
?S: values include '.obj'.
?S:.
?S:firstmakefile:
?S: This variable defines the first file searched by make.  On unix,
?S: it is makefile (then Makefile).  On case-insensitive systems,
?S: it might be something else.  This is only used to deal with
?S: convoluted make depend tricks.
?S:.
?S:archobjs:
?S: This variable defines any additional objects that must be linked
?S: in with the program on this architecture.  On unix, it is usually
?S: empty.  It is typically used to include emulations of unix calls
?S: or other facilities.  For perl on OS/2, for example, this would
?S: include os2/os2.obj.
?S:.
?INIT:: Extra object files, if any, needed on this platform.
?INIT:archobjs="
: Define several unixisms.
: Hints files
 or command line option can be used to override them.
case "$_a" in
") _a='.a';;
esac
case "$_o" in
```

```
") _o='.o';;
esac

@if firstmakefile
: Which makefile gets called first.  This is used by make depend.
case "$firstmakefile" in
") firstmakefile='makefile';;
esac

@end
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Unix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: newslib.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: newslib.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:23  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:newslib newslibexp: test inews Oldconfig Getfile
?MAKE: -pick add $@ %<
?S:newslib:
?S: This variable contains the eventual value of the NEWSLIB symbol,
?S: which holds the name of the directory serving as the news library.
?S: It may have a ~ on the front.  See newslibexp for expanded version.
?S:.
?S:newslibexp:
?S: This variable contains
 the ~ expanded name of the news library
?S: directory.  See newslib.
?S:.
?C:NEWSLIB:
?C: This symbol contains the name of the directory serving as the news
?C: library.  The program must be prepared to do ~ expansion on it.
?C:.
?C:NEWSLIB_EXP:
?C: This symbol is the ~ expanded version of NEWSLIB, for programs that
```

```
?C: do not wish to deal with it at run-time.
?C:.
?H:#define NEWSLIB "$newslib"  /**/
?H:#define NEWSLIB_EXP "$newslibexp" /**/
?H:.
?LINT:change inews
: figure out news library
case "$newslib" in
")
 dflt=/usr/lib/news
 ;;
*)  dflt=$newslib ;;
esac
echo " "
fn=d~
rp='Where is your news library?'
. ./getfile
newslib="$ans"
newslibexp="$ansexp"
if $test -f $newslibexp/inews; then
 echo "Aha!  Inews is really in $newslibexp!  Maybe this is 2.10.2..." >&4
 case "$inews" in
 inews)
  : null
  ;;
 *) echo "(Make sure $inews isn't an old version.)";;
 esac
 inews=$newslibexp/inews
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/newslib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isfinite: Inlibc cat Compile rm_try Setvar
?MAKE: -pick add $@ %<
?S:d_isfinite:
?S: This variable conditionally defines the HAS_ISFINITE symbol, which
?S: indicates to the C program that the isfinite() routine is available.
?S:.
```

```
?C:HAS_ISFINITE:
?C: This symbol, if defined, indicates that the isfinite routine is
?C: available to check whether a double is finite (non-infinity non-NaN).
?C:.
?LINT:set d_isfinite
?H:#$d_isfinite HAS_ISFINITE  /**/
?H:.
: check for isfinite
echo "Checking to see if you have isfinite..." >&4
$cat >try.c <<EOCP
#include <math.h>
int main() { return isfinite(0.0); }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have isfinite."
else
 val="$undef"
 echo
 "You do not have isfinite."
fi
$rm_try
set d_isfinite
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_isfinite.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpgid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getpgid.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:33:44  ram
?RCS: patch61: created
?RCS:
?MAKE:d_getpgid: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_getpgid:
?S: This variable conditionally defines the HAS_GETPGID symbol, which
?S: indicates to the C program that the getpgid(pid) function
?S: is available to get the process group id.
?S:.
?C:HAS_GETPGID:
?C: This symbol, if defined, indicates to the C program
 that
?C: the getpgid(pid) function is available to get the
?C: process group id.
?C:.
?H:#$d_getpgid HAS_GETPGID  /**/
?H:.
?LINT:set d_getpgid
: see if getpgid exists
set getpgid d_getpgid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getpgid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2006-2007, H.Merijn Brand
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_snprintf_l d_vsnprintf_l : Inlibc d_snprintf d_vsnprintf
?MAKE: -pick add $@ %<
?S:d_snprintf_l:
?S: This variable conditionally defines the HAS_SNPRINTF_L symbol, which
?S: indicates to the C program that the snprintf_l () library function
?S: is available.
?S:.
?S:d_vsnprintf_l:
?S: This variable conditionally defines the HAS_VSNPRINTF_L symbol, which
?S: indicates to the C program that the vsnprintf_l () library function
?S: is available.
?S:.
?C:HAS_SNPRINTF_L:
?C: This symbol, if defined, indicates that the snprintf_l () library
?C: function
 is available for use.
?C:.
```

```
?C:HAS_VSNPRINTF_L:
?C: This symbol, if defined, indicates that the vsnprintf_l () library
?C: function is available for use.
?C:.
?H:#$d_snprintf_l HAS_SNPRINTF_L /**/
?H:#$d_vsnprintf_l HAS_VSNPRINTF_L /**/
?H:.
: see if snprintf_l exists
set snprintf_l d_snprintf_l
eval $inlibc

: see if vsnprintf_l exists
set vsnprintf_l d_vsnprintf_l
eval $inlibc

case "$d_snprintf-$d_vsnprintf-$d_snprintf_l-$d_vsnprintf_l" in
"$define-$define-$define-$define")
   ;;
*) echo "(These require the basic snprintf and vsnprintf to also be available, which they aren't"
 d_snprintf_l="$undef"
 d_vsnprintf_l="$undef"
   ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_snprintf_l.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getlogin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_getlogin.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:41  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_getlogin: Inlibc
?MAKE: -pick add $@ %<
?S:d_getlogin:
```

```
?S: This variable conditionally defines the HAS_GETLOGIN symbol, which
?S: indicates to the C program that the getlogin() routine is available
?S: to get the login name.
?S:.
?C:HAS_GETLOGIN :
?C: This symbol,
 if defined, indicates that the getlogin routine is
?C: available to get the login name.
?C:.
?H:#$d_getlogin HAS_GETLOGIN  /**/
?H:.
?LINT:set d_getlogin
: see if getlogin exists
set getlogin d_getlogin
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getlogin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getprotoprotos.U,v $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_getprotoprotos : Hasproto i_netdb
?MAKE: -pick add $@ %<
?S:d_getprotoprotos:
?S: This variable conditionally defines the HAS_GETPROTO_PROTOS symbol,
?S: which indicates to the C program that <netdb.h> supplies
?S: prototypes for the various getproto*() functions.
?S: See also netdbtype.U for probing for various netdb types.
?S:.
?C:HAS_GETPROTO_PROTOS:
?C: This symbol, if defined, indicates that <netdb.h> includes
?C: prototypes for getprotoent(), getprotobyname(), and
?C: getprotobyaddr().
  Otherwise, it is up to the program to guess
?C: them.  See netdbtype.U for probing for various Netdb_xxx_t types.
?C:.
?H:#$d_getprotoprotos HAS_GETPROTO_PROTOS /**/
?H:.
```

```
?LINT:set d_getprotoprotos
: see if prototypes for various getprotoxxx netdb.h functions are available
echo " "
set d_getprotoprotos getprotoent $i_netdb netdb.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/d_getprotoprotos.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: nblock_io.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:17:14  ram
?RCS: patch61: simplify here document for shells that can't handle them well
?RCS: patch61: force use of "startsh" at the head of the generated script
?RCS: patch61: added new files to the ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  14:13:22  ram
?RCS: patch56: created
?RCS:
?X:
?X: Simplify here document for shells that can't handle them well.
?X: (Problem reported on FreeBSD; it's unclear if this helps.)  --AD
?X:
?MAKE:o_nonblock
 eagain rd_nodata d_eofnblk: cat rm_try +cc +ccflags +ldflags \
 d_open3 h_sysfile h_fcntl signal_t hint Oldconfig Setvar startsh Warn
?MAKE: -pick add $@ %<
?S:o_nonblock:
?S: This variable bears the symbol value to be used during open() or fcntl()
?S: to turn on non-blocking I/O for a file descriptor. If you wish to switch
?S: between blocking and non-blocking, you may try ioctl(FIOSNBIO) instead,
?S: but that is only supported by some devices.
?S:.
?S:eagain:
?S: This variable bears the symbolic errno code set by read() when no
?S: data is present on the file and non-blocking I/O was enabled (otherwise,
?S: read() blocks naturally).
```

```
?S:.
?S:rd_nodata:
?S: This variable holds the return code from read() when no data is
?S: present. It should be -1, but some systems return 0 when O_NDELAY is
?S: used, which is a shame because you cannot make the difference between
?S: no data and an EOF.. Sigh!
?S:.
?S:d_eofnblk:
?S: This variable conditionally defines EOF_NONBLOCK
 if EOF can be seen
?S: when reading from a non-blocking I/O source.
?S:.
?C:VAL_O_NONBLOCK:
?C: This symbol is to be used during open() or fcntl(F_SETFL) to turn on
?C: non-blocking I/O for the file descriptor. Note that there is no way
?C: back, i.e. you cannot turn it blocking again this way. If you wish to
?C: alternatively switch between blocking and non-blocking, use the
?C: ioctl(FIOSNBIO) call instead, but that is not supported by all devices.
?C:.
?C:VAL_EAGAIN:
?C: This symbol holds the errno error code set by read() when no data was
?C: present on the non-blocking file descriptor.
?C:.
?C:RD_NODATA:
?C: This symbol holds the return code from read() when no data is present
?C: on the non-blocking file descriptor. Be careful! If EOF_NONBLOCK is
?C: not defined, then you can't distinguish between no data and EOF by
?C: issuing a read(). You'll have to find another way to tell for sure!
?C:.
?C:EOF_NONBLOCK:
?C: This symbol, if defined, indicates to the C program that a read() on
?C: a
 non-blocking file descriptor will return 0 on EOF, and not the value
?C: held in RD_NODATA (-1 usually, in that case!).
?C:.
?H:#define VAL_O_NONBLOCK $o_nonblock
?H:#define VAL_EAGAIN $eagain
?H:#define RD_NODATA $rd_nodata
?H:#$d_eofnblk EOF_NONBLOCK
?H:.
?F:!try !try.out !try.ret !try.err !mtry
?T:status
?LINT:use d_open3
: check for non-blocking I/O stuff
case "$h_sysfile" in
true) echo "#include <sys/file.h>" > head.c;;
*)
 case "$h_fcntl" in
```

```
 true) echo "#include <fcntl.h>" > head.c;;
 *) echo "#include <sys/fcntl.h>" > head.c;;
 esac
 ;;
esac
echo " "
echo "Figuring out the flag used by open() for non-blocking I/O..." >&4
case "$o_nonblock" in
")
 $cat head.c > try.c
 $cat >>try.c <<'EOCP'
int main() {
#ifdef O_NONBLOCK
 printf("O_NONBLOCK\n");
 exit(0);
#endif
#ifdef O_NDELAY
 printf("O_NDELAY\n");
 exit(0);
#endif
?X: Stevens "Advanced Programming in the UNIX Environment" page 364 mentions
?X: the FNDELAY symbol, used in 4.33BSD (source: Paul Marquess).
#ifdef FNDELAY
 printf("FNDELAY\n");
 exit(0);
#endif
 exit(0);
}
EOCP
 if
 $cc $ccflags $ldflags -o try try.c >/dev/null 2>&1; then
  o_nonblock=`./try`
  case "$o_nonblock" in
  ") echo "I can't figure it out, assuming O_NONBLOCK will do.";;
  *) echo "Seems like we can use $o_nonblock.";;
  esac
 else
  echo "(I can't compile the test program; pray O_NONBLOCK is right!)"
 fi
 ;;
*) echo "Using $hint value $o_nonblock.";;
esac
$rm_try

echo " "
echo "Let's see what value errno gets from read() on a $o_nonblock file..." >&4
case "$eagain" in
")
```

```
 $cat head.c > try.c
 $cat >>try.c <<EOCP
#include <errno.h>
#include <sys/types.h>
#include <signal.h>
#define MY_O_NONBLOCK $o_nonblock
extern int errno;
$signal_t blech(x) int x; { exit(3); }
EOCP
 $cat >> try.c <<'EOCP'
int main()
{
 int pd[2];
 int pu[2];
 char buf[1];
 char string[100];

 pipe(pd); /* Down: child -> parent */
 pipe(pu); /* Up: parent -> child */
 if (0 != fork()) {
  int ret;
  close(pd[1]); /* Parent reads from pd[0] */
  close(pu[0]); /*
 Parent writes (blocking) to pu[1] */
  if (-1 == fcntl(pd[0], F_SETFL, MY_O_NONBLOCK))
   exit(1);
  signal(SIGALRM, blech);
  alarm(5);
  if ((ret = read(pd[0], buf, 1)) > 0) /* Nothing to read! */
   exit(2);
  sprintf(string, "%d\n", ret);
  write(2, string, strlen(string));
  alarm(0);
#ifdef EAGAIN
  if (errno == EAGAIN) {
   printf("EAGAIN\n");
   goto ok;
  }
#endif
#ifdef EWOULDBLOCK
  if (errno == EWOULDBLOCK)
   printf("EWOULDBLOCK\n");
#endif
 ok:
  write(pu[1], buf, 1); /* Unblocks child, tell it to close our pipe */
  sleep(2);    /* Give it time to close our pipe */
  alarm(5);
  ret = read(pd[0], buf, 1); /* Should read EOF */
```

```
 alarm(0);
 sprintf(string, "%d\n", ret);
 write(3, string, strlen(string));
 exit(0);
 }

 close(pd[0]);   /* We write to pd[1] */
 close(pu[1]);   /* We read from pu[0] */
 read(pu[0], buf, 1); /* Wait for parent to signal us we may continue */
 close(pd[1]);   /* Pipe pd is now fully closed! */
 exit(0);    /* Bye bye, thank you for playing!
 */
}
EOCP
 if $cc $ccflags $ldflags -o try try.c >/dev/null 2>&1; then
?X: Use script to avoid the possible 'alarm call' message
  echo "$startsh" >mtry
  echo "./try >try.out 2>try.ret 3>try.err || exit 4" >>mtry
  chmod +x mtry
  ./mtry >/dev/null 2>&1
  case $? in
  0) eagain=`$cat try.out`;;
  1) echo "Could not perform non-blocking setting!";;
  2) echo "I did a successful read() for something that was not there!";;
  3) echo "Hmm... non-blocking I/O does not seem to be working!";;
  *) echo "Something terribly wrong happened during testing.";;
  esac
  rd_nodata=`$cat try.ret`
  echo "A read() system call with no data present returns $rd_nodata."
  case "$rd_nodata" in
  0|-1) ;;
  *)
   echo "(That's peculiar, fixing that to be -1.)"
   rd_nodata=-1
   ;;
  esac
  case "$eagain" in
  ")
   echo "Forcing errno EAGAIN on read() with no data available."
   eagain=EAGAIN
   ;;
  *)
   echo "Your read() sets errno to $eagain when no data is available."
   ;;
  esac
  status=`$cat
 try.err`
  case "$status" in
```

```
  0) echo "And it correctly returns 0 to signal EOF.";;
  -1) echo "But it also returns -1 to signal EOF, so be careful!";;
  *) echo "However, your read() returns '$status' on EOF??";;
  esac
  val="$define"
  if test "$status" = "$rd_nodata"; then
   ./warn "your read() can't distinguish between EOF and no data!"
   val="$undef"
  fi
 else
  echo "I can't compile the test program--assuming errno EAGAIN will do."
  eagain=EAGAIN
 fi
 set d_eofnblk
 eval $setvar
 ;;
*)
 echo "Using $hint value $eagain."
 echo "Your read() returns $rd_nodata when no data is present."
 case "$d_eofnblk" in
 "$define") echo "And you can see EOF because read() returns 0.";;
 "$undef") echo "But you can't see EOF status from read() returned value.";;
 *)
?X: Should not happen, but if it does, assume the worst!
  echo "(Assuming you can't see EOF status from read anyway.)"
  d_eofnblk=$undef
  ;;
 esac
 ;;
esac
$rm_try head.c mtry
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/nblock_io.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_statfs_f_flags: \
 Hasfield i_sysparam i_sysmount i_systypes \
 i_sysvfs i_sysstatfs Setvar d_statfs_s
?MAKE: -pick add $@ %<
```

```
?S:d_statfs_f_flags:
?S: This variable conditionally defines the HAS_STRUCT_STATFS_F_FLAGS
?S: symbol, which indicates to struct statfs from has f_flags member.
?S: This kind of struct statfs is coming from sys/mount.h (BSD),
?S: not from sys/statfs.h (SYSV).
?S:.
?C:HAS_STRUCT_STATFS_F_FLAGS:
?C: This symbol, if defined, indicates that the struct statfs
?C: does have the f_flags member containing the mount flags of
?C: the filesystem containing the file.
?C: This kind of struct statfs is coming from <sys/mount.h> (BSD 4.3),
?C: not from <sys/statfs.h> (SYSV).  Older BSDs
 (like Ultrix) do not
?C: have statfs() and struct statfs, they have ustat() and getmnt()
?C: with struct ustat and struct fs_data.
?C:.
?H:#$d_statfs_f_flags HAS_STRUCT_STATFS_F_FLAGS  /**/
?H:.
?LINT:set d_statfs_f_flags
: see if struct statfs knows about f_flags
case "$d_statfs_s" in
define)
 echo " "
 echo "Checking to see if your struct statfs has f_flags field..." >&4
 set d_statfs_f_flags statfs f_flags $i_systypes sys/types.h $i_sysparam sys/param.h $i_sysmount sys/mount.h
$i_sysvfs sys/vfs.h $i_sysstatfs sys/statfs.h
 eval $hasfield
 ;;
*) val="$undef"
 set d_statfs_f_flags
 eval $setvar
 ;;
esac
case "$d_statfs_f_flags" in
"$define")      echo "Yes, it does."   ;;
*)              echo "No, it doesn't." ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_statfs_f_flags.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sigsetjmp.U,v 3.0.1.1 1997/02/28 15:44:33 ram Exp $
?RCS:
?RCS: Copyright (c) 1996,1998 Andy Dougherty
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_sigsetjmp.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:44:33  ram
?RCS: patch61: created
?RCS:
?MAKE:d_sigsetjmp: Compile Setvar cat rm_try run i_stdlib
?MAKE: -pick add $@ %<
?S:d_sigsetjmp:
?S: This variable conditionally defines the HAS_SIGSETJMP symbol,
?S: which
 indicates that the sigsetjmp() routine is available to
?S: call setjmp() and optionally save the process's signal mask.
?S:.
?C:HAS_SIGSETJMP:
?C: This variable indicates to the C program that the sigsetjmp()
?C: routine is available to save the calling process's registers
?C: and stack environment for later use by siglongjmp(), and
?C: to optionally save the process's signal mask.  See
?C: Sigjmp_buf, Sigsetjmp, and Siglongjmp.
?C:.
?C:Sigjmp_buf:
?C: This is the buffer type to be used with Sigsetjmp and Siglongjmp.
?C:.
?C:Sigsetjmp:
?C: This macro is used in the same way as sigsetjmp(), but will invoke
?C: traditional setjmp() if sigsetjmp isn't available.
?C: See HAS_SIGSETJMP.
?C:.
?C:Siglongjmp:
?C: This macro is used in the same way as siglongjmp(), but will invoke
?C: traditional longjmp() if siglongjmp isn't available.
?C: See HAS_SIGSETJMP.
?C:.
?H:?%<:#$d_sigsetjmp HAS_SIGSETJMP /**/
?H:?%<:#ifdef HAS_SIGSETJMP
?H:?%<:#define Sigjmp_buf sigjmp_buf
?H:?%<:#define Sigsetjmp(buf,save_mask)
 sigsetjmp((buf),(save_mask))
?H:?%<:#define Siglongjmp(buf,retval) siglongjmp((buf),(retval))
?H:?%<:#else
```

```
?H:?%<:#define Sigjmp_buf jmp_buf
?H:?%<:#define Sigsetjmp(buf,save_mask) setjmp((buf))
?H:?%<:#define Siglongjmp(buf,retval) longjmp((buf),(retval))
?H:?%<:#endif
?H:.
?W:%<:Sigjmp_buf Sigsetjmp Siglongjmp
?F:!try
?LINT:set d_sigsetjmp
: see if sigsetjmp exists
?X: We can't check for these symbols with Inlibc because sigsetjmp
?X: is (sometimes? always?) a macro under GCC
echo " "
case "$d_sigsetjmp" in
")
 $cat >try.c <<EOP
#include <setjmp.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
sigjmp_buf env;
int set = 1;
int main()
{
 if (sigsetjmp(env,1))
  exit(set);
 set = 0;
 siglongjmp(env, 1);
 exit(1);
}
EOP
 set try
 if eval $compile; then
  if $run ./try >/dev/null 2>&1; then
   echo "POSIX sigsetjmp found." >&4
   val="$define"
  else
   $cat >&4 <<EOM
Uh-Oh! You have POSIX sigsetjmp and siglongjmp, but they do not work properly!!
I'll
 ignore them.
EOM
   val="$undef"
  fi
 else
  echo "sigsetjmp not found." >&4
  val="$undef"
 fi
```

```
 ;;
*) val="$d_sigsetjmp"
 case "$d_sigsetjmp" in
 $define) echo "POSIX sigsetjmp found." >&4;;
 $undef) echo "sigsetjmp not found." >&4;;
 esac
 ;;
esac
set d_sigsetjmp
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_sigsetjmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sbrksmart.U,v $
?RCS: Revision 3.0.1.2  1995/01/11  15:35:41  ram
?RCS: patch45: now sets sbrksmart to undef explicitly when lacking sbrk()
?RCS: patch45: forgot a cast when using return value from sbrk()
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:16:45  ram
?RCS: patch16: created
?RCS:
?MAKE:sbrksmart: cat d_sbrk +cc +ccflags +libs rm
?MAKE: -pick add $@ %<
?S:sbrksmart:
?S: This variable conditionally defines HAS_SMART_SBRK if the sbrk()
?S: routine honors a negative argument to lower the break
 value.
?S:.
?C:HAS_SMART_SBRK:
?C: This symbol is defined when the sbrk() system call may be used with
?C: a negative argument to lower the break value, therefore releasing
?C: core to the system. If not, you'd probably be better off using the
?C: mmap() system call.
?C:.
```

```
?H:#$sbrksmart HAS_SMART_SBRK /**/
?H:.
?T:dumb
?F:!sbrk
: see whether sbrk can release core to the kernel
echo " "
case "$d_sbrk" in
"$define")
 echo "Let's see if your sbrk() is smart enough to release core..." >&4
 $cat > sbrk.c <<EOC
#define INC 256  /* Small enough to be less than a page size */

int main()
{
 char *obrk = (char *) sbrk(0);
 char *nbrk;

 nbrk = (char *) sbrk(INC);
 if (nbrk == (char *) -1)
  exit(1); /* Not enough memory */
 if (nbrk != obrk)
  exit(2); /* Unreliable sbrk() */
 nbrk = (char *) sbrk(-INC);
 if (nbrk == (char *) -1)
  exit(3); /* May have understood negative arg as huge positive */
 if (obrk != (char *) sbrk(0))
  exit(4); /* Not smart, definitely */

 exit(0);  /* Ok */
}
EOC
 sbrksmart="$undef"
 dumb='--
 assuming dumb sbrk().'
 if $cc $ccflags -o sbrk sbrk.c $libs >/dev/null 2>&1; then
  ./sbrk >/dev/null 2>&1
  case $? in
  0) sbrksmart="$define"
   echo "Yes, it can be used with negative values." ;;
  1) echo "Sorry, not enough memory $dumb" ;;
  2) echo "No it's not, and besides it seems to be buggy..." ;;
  3) echo "No, it fails with negative values." ;;
  4) echo "Nope, your sbrk() is too dumb." ;;
  *) echo "Err... Unexpected result $dumb" ;;
  esac
 else
  echo "(Could not compile test program $dumb)"
 fi
```

```
 ;;
*)
 echo "Since you don't have sbrk(), let's forget about the smart test!"
 sbrksmart="$undef"
 ;;
esac
$rm -f sbrk sbrk.* core
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/sbrksmart.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: archlib.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  15:23:38  ram
?RCS: patch61: skip existence checks for archlib
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:15:18  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/02/15  14:14:14  ram
?RCS: patch51: architecture name is now computed by a separate unit
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:32:22  ram
?RCS:
 patch49: archname is now systematically recomputed
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:02:36  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_archlib archlib archlibexp installarchlib: archname afs spackage \
 cat Getfile Loc Oldconfig prefixexp privlib test Prefixit Prefixup
?MAKE: -pick add $@ %<
?Y:TOP
?S:d_archlib:
```

```
?S: This variable conditionally defines ARCHLIB to hold the pathname
?S: of architecture-dependent library files for $package.  If
?S: $archlib is the same as $privlib, then this is set to undef.
?S:.
?S:archlib:
?S: This variable holds the name of the directory in which the user wants
?S: to put architecture-dependent public library files for $package.
?S: It is most often a local directory such as /usr/local/lib.
?S: Programs using this variable must be prepared to deal
?S: with filename expansion.
?S:.
?S:archlibexp:
?S: This variable is the same as the archlib variable, but is
?S: filename
 expanded at configuration time, for convenient use.
?S:.
?S:installarchlib:
?S: This variable is really the same as archlibexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?C:ARCHLIB:
?C: This variable, if defined, holds the name of the directory in
?C: which the user wants to put architecture-dependent public
?C: library files for $package.  It is most often a local directory
?C: such as /usr/local/lib.  Programs using this variable must be
?C: prepared to deal with filename expansion.  If ARCHLIB is the
?C: same as PRIVLIB, it is not defined, since presumably the
?C: program already searches PRIVLIB.
?C:.
?C:ARCHLIB_EXP:
?C: This symbol contains the ~name expanded version of ARCHLIB, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#$d_archlib ARCHLIB "$archlib"  /**/
?H:#$d_archlib ARCHLIB_EXP "$archlibexp"  /**/
?H:.
: determine where public architecture
 dependent libraries go
set archlib archlib
eval $prefixit
case "$archlib" in
")
 case "$privlib" in
 ")
  dflt=`./loc . "." $prefixexp/lib /usr/local/lib /usr/lib /lib`
  set dflt
  eval $prefixup
```

```
  ;;
 *)  dflt="$privlib/$archname";;
 esac
 ;;
*) dflt="$archlib";;
esac
cat <<EOM

$spackage contains architecture-dependent library files.  If you are
sharing libraries in a heterogeneous environment, you might store
these files in a separate location.  Otherwise, you can just include
them with the rest of the public library files.

EOM
fn=d+~
rp='Where do you want to put the public architecture-dependent libraries?'
. ./getfile
archlib="$ans"
archlibexp="$ansexp"

if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
private files reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installarchlib" in
 ") dflt=`echo $archlibexp | sed 's#^/afs/#/afs/.#'`;;
 *)
 dflt="$installarchlib";;
 esac
 fn=de~
 rp='Where will architecture-dependent library files be installed?'
 . ./getfile
 installarchlib="$ans"
else
 installarchlib="$archlibexp"
fi
if $test X"$archlib" = X"$privlib"; then
 d_archlib="$undef"
else
 d_archlib="$define"
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/dist/U/archlib.U
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```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_mkstemps: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkstemps:
?S: This variable conditionally defines the HAS_MKSTEMPS symbol, which
?S: indicates to the C program that the mkstemps() routine is available
?S: to exclusively create and open a uniquely named (with a suffix)
?S: temporary file.
?S:.
?C:HAS_MKSTEMPS :
?C: This symbol, if defined, indicates that the mkstemps routine is
?C: available to exclusively create and open a uniquely named
?C: (with a suffix) temporary file.
?C:.
?H:#$d_mkstemps HAS_MKSTEMPS  /**/
?H:.
?LINT:set d_mkstemps
: see if mkstemps exists
set mkstemps d_mkstemps
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_mkstemps.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Extensions.U,v$
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: Extensions.U,v $
?RCS:
?MAKE:known_extensions extensions dynamic_ext static_ext nonxs_ext \
 useposix useopcode uselanginfo : \
 Myread hint usedl d_sem d_socket i_db i_dbm i_rpcsvcdbm i_gdbm \
 d_ndbm package test cat rsrc \
```

```
 d_msg d_shm osname use64bitint \
 libs d_cplusplus sed ls rm contains trnl sort
?MAKE: -pick add $@ %<
?Y:BOTTOM
?S:known_extensions:
?S: This variable holds a list of all extensions (both XS and non-xs)
?S: included in the package source distribution.  This information is
?S: only really of use during the Perl build, as the list makes no
?S: distinction between extensions which were build and installed, and
?S: those which where not.  See "extensions"
 for the list of extensions
?S: actually built and available.
?S:.
?S:dynamic_ext:
?S: This variable holds a list of XS extension files we want to
?S: link dynamically into the package.  It is used by Makefile.
?S:.
?S:static_ext:
?S: This variable holds a list of XS extension files we want to
?S: link statically into the package.  It is used by Makefile.
?S:.
?S:nonxs_ext:
?S: This variable holds a list of all non-xs extensions built and
?S: installed by the package.  By default, all non-xs extensions
?S: distributed will be built, with the exception of platform-specific
?S: extensions (currently only one VMS specific extension).
?S:.
?S:extensions:
?S: This variable holds a list of all extension files (both XS and
?S: non-xs) installed with the package.  It is propagated to Config.pm
?S: and is typically used to test whether a particular extension
?S: is available.
?S:.
?S:useposix:
?S: This variable holds either 'true' or 'false' to indicate
?S: whether the POSIX extension should
 be used.  The sole
?S: use for this currently is to allow an easy mechanism
?S: for hints files to indicate that POSIX will not compile
?S: on a particular system.
?S:.
?S:useopcode:
?S: This variable holds either 'true' or 'false' to indicate
?S: whether the Opcode extension should be used.  The sole
?S: use for this currently is to allow an easy mechanism
?S: for users to skip the Opcode extension from the Configure
?S: command line.
?S:.
```

```
?S:uselanginfo:
?S: This variable holds either 'true' or 'false' to indicate
?S: whether the I18N::Langinfo extension should be used.  The sole
?S: use for this currently is to allow an easy mechanism for users to skip
?S: this extension from the Configure command line.
?S:.
?T:xxx avail_ext this_ext tdir xs_extensions nonxs_extensions find_extensions
?INIT:: set useposix=false in your hint file to disable the POSIX extension.
?INIT:useposix=true
?INIT:: set useopcode=false in your hint file to disable the Opcode extension.
?INIT:useopcode=true
?INIT::
 set uselanginfo=false in your hint file to disable the I18N::Langinfo extension.
?INIT:uselanginfo=true
?LINT:extern noextensions
?LINT:extern onlyextensions
?T:keepextensions i
: Check extensions
echo " "
echo "Looking for extensions..." >&4
: If we are using the old config.sh, nonxs_extensions and xs_extensions may
: contain old or inaccurate or duplicate values.
nonxs_extensions="
xs_extensions="
: We do not use find because it might not be available.
: We do not just use MANIFEST because the user may have dropped
: some additional extensions into the source tree and expect them
: to be built.

: Function to recursively find available extensions, ignoring DynaLoader
: NOTE: recursion limit of 10 to prevent runaway in case of symlink madness
: In 5.10.1 and later, extensions are stored in directories
: like File-Glob instead of the older File/Glob/.
find_extensions='
   for xxx in *; do
 case "$xxx" in
     DynaLoader|dynaload) ;;
     *)
     this_ext=`echo "$xxx" | $sed -e s/-/\\\/g`;

    case "$this_ext" in
  Scalar/List/Utils) this_ext="List/Util" ;;
  PathTools)         this_ext="Cwd" ;;
     esac;
     echo " $xs_extensions $nonxs_extensions" > "$tdir/$$.tmp";
     if $contains " $this_ext " "$tdir/$$.tmp"; then
  echo >&4;
  echo "Duplicate directories detected for extension $xxx" >&4;
```

```
  echo "Configure cannot correctly recover from this - shall I abort?" >&4;
  case "$knowitall" in
  "") dflt=y;;
  *) dflt=n;;
  esac;
  . ../UU/myread;
  case "$ans" in
  n*|N*) ;;
  *) echo >&4;
     echo "Ok.  Stopping Configure." >&4;
     echo "Please remove the duplicate directory (e.g. using git clean) and then re-run Configure" >&4;
     exit 1;;
  esac;
  echo "Ok.  You will need to correct config.sh before running make." >&4;
    fi;
    $ls -1 "$xxx" > "$tdir/$$.tmp";
    if   $contains "\.xs$" "$tdir/$$.tmp" > /dev/null 2>&1; then
  xs_extensions="$xs_extensions $this_ext";
    elif $contains "\.c$"  "$tdir/$$.tmp" > /dev/null 2>&1; then
  xs_extensions="$xs_extensions
 $this_ext";
    elif $test -d "$xxx"; then
  nonxs_extensions="$nonxs_extensions $this_ext";
    fi;
    $rm -f "$tdir/$$.tmp";
    ;;
 esac;
   done'
tdir=`pwd`
cd "$rsrc/cpan"
set X
shift
eval $find_extensions
cd "$rsrc/dist"
set X
shift
eval $find_extensions
cd "$rsrc/ext"
set X
shift
eval $find_extensions
set X $xs_extensions
shift
xs_extensions=`echo "$*" | tr ' ' $trnl | $sort | tr $trnl ' '`
set X $nonxs_extensions
shift
nonxs_extensions=`echo "$*" | tr ' ' $trnl | $sort | tr $trnl ' '`
cd "$tdir"
```

```
known_extensions=`echo $nonxs_extensions $xs_extensions  | tr ' ' $trnl | $sort | tr $trnl ' '`

: Now see which are supported on this system.
?X: avail_ext lists available XS extensions.
avail_ext="
for xxx in $xs_extensions ; do
 case "$xxx" in
?X: Handle possible DOS 8.3 filename and case alterations
 Amiga*)
  case "$osname" in
  amigaos) avail_ext="$avail_ext $xxx" ;;
  esac
  ;;
 DB_File|db_file)
  case "$i_db" in
  $define) avail_ext="$avail_ext $xxx"
 ;;
  esac
  ;;
 GDBM_File|gdbm_fil)
  case "$i_gdbm" in
  $define) avail_ext="$avail_ext $xxx" ;;
  esac
  ;;
 IPC/SysV|ipc/sysv)
  : XXX Do we need a useipcsysv variable here
  case "${d_msg}${d_sem}${d_shm}" in
  *"${define}"*) avail_ext="$avail_ext $xxx" ;;
  esac
  ;;
 NDBM_File|ndbm_fil)
  case "$d_ndbm" in
  $define)
      case "$osname-$use64bitint" in
      hpux-define)
   case "$libs" in
   *-lndbm*) avail_ext="$avail_ext $xxx" ;;
   esac
   ;;
      *) avail_ext="$avail_ext $xxx" ;;
      esac
      ;;
  esac
  ;;
 ODBM_File|odbm_fil)
  case "${i_dbm}${i_rpcsvcdbm}" in
  *"${define}"*)
      case "$d_cplusplus" in
```

```
    define) ;; # delete as a function name will not work
    *)  case "$osname-$use64bitint" in
  hpux-define)
      case "$libs" in
      *-ldbm*) avail_ext="$avail_ext $xxx" ;;
      esac
      ;;
  *) avail_ext="$avail_ext $xxx" ;;
  esac
  ;;
    esac
    ;;
 esac
 ;;
Opcode|opcode)
 case "$useopcode" in
 true|define|y) avail_ext="$avail_ext
$xxx" ;;
 esac
 ;;
POSIX|posix)
 case "$useposix" in
 true|define|y) avail_ext="$avail_ext $xxx" ;;
 esac
 ;;
Socket|socket)
 case "$d_socket" in
 true|$define|y) avail_ext="$avail_ext $xxx" ;;
 esac
 ;;
I18N/Langinfo|langinfo)
 case "$uselanginfo" in
 true|define|y) avail_ext="$avail_ext $xxx" ;;
 esac
 ;;
Sys/Syslog|sys/syslog)
 case $osname in
  amigaos) ;; # not really very useful on AmigaOS
  *)
  : XXX syslog requires socket
  case "$d_socket" in
  true|$define|y) avail_ext="$avail_ext $xxx" ;;
  esac
  ;;
 esac
 ;;
threads|threads/shared)
 # threads and threads::shared are special cases.
```

```
 # To stop people from asking "Perl 5.8.0 was supposed
 # to have this new fancy threads implementation but my
 # perl doesn't have it" and from people trying to
 # (re)install the threads module using CPAN.pm and
 # CPAN.pm then offering to reinstall Perl 5.8.0,
 # the threads.pm and threads/shared.pm will always be
 # there, croaking informatively ("you
need to rebuild
 # all of Perl with threads, sorry") when threads haven't
 # been compiled in.
 # --jhi
 avail_ext="$avail_ext $xxx"
 ;;
VMS*)
 ;;
Win32*)
 case "$osname" in
 cygwin) avail_ext="$avail_ext $xxx" ;;
 esac
 ;;
XS/APItest|xs/apitest)
 # This is just for testing.  Skip it unless we have dynamic loading.

 case "$usedl" in
 $define) avail_ext="$avail_ext $xxx" ;;
 esac
 ;;
XS/Typemap|xs/typemap)
 # This is just for testing.  Skip it unless we have dynamic loading.
 case "$usedl" in
 $define) avail_ext="$avail_ext $xxx" ;;
 esac
 ;;
*) avail_ext="$avail_ext $xxx"
 ;;
esac
done

set X $avail_ext
shift
avail_ext="$*"

case "$onlyextensions" in
") ;;
*)  keepextensions="
  echo "You have requested that only certain extensions be included..." >&4
  for i in $onlyextensions; do
      case " $avail_ext " in
```

```
      *" $i "*)
         echo "Keeping extension $i."
         keepextensions="$keepextensions $i"
         ;;
      *) echo "Ignoring
 extension $i." ;;
      esac
   done
   avail_ext="$keepextensions"
   ;;
esac

case "$noextensions" in
") ;;
*)  keepextensions="
   echo "You have requested that certain extensions be ignored..." >&4
   for i in $avail_ext; do
      case " $noextensions " in
      *" $i "*) echo "Ignoring extension $i." ;;
      *) echo "Keeping extension $i.";
         keepextensions="$keepextensions $i"
         ;;
      esac
   done
   avail_ext="$keepextensions"
   ;;
esac

: Now see which nonxs extensions are supported on this system.
: For now assume all are.
nonxs_ext="
for xxx in $nonxs_extensions ; do
 case "$xxx" in
 VMS*)
  ;;
 *) nonxs_ext="$nonxs_ext $xxx"
  ;;
 esac
done

set X $nonxs_ext
shift
nonxs_ext="$*"

case $usedl in
$define)
 $cat <<EOM
A number of extensions are supplied with $package.  You may choose to
```

```
compile these extensions for dynamic loading (the default), compile
them into the $package executable (static loading), or not include
them at all.
  Answer "none" to include no extensions.
Note that DynaLoader is always built and need not be mentioned here.

EOM
 case "$dynamic_ext" in
 ")
  : Exclude those listed in static_ext
  dflt="
  for xxx in $avail_ext; do
   case " $static_ext " in
   *" $xxx "*) ;;
   *) dflt="$dflt $xxx" ;;
   esac
  done
  set X $dflt
  shift
  dflt="$*"
  ;;
 *) dflt="$dynamic_ext"
  # Perhaps we are reusing an old out-of-date config.sh.
  case "$hint" in
  previous)
   if test X"$dynamic_ext" != X"$avail_ext"; then
    $cat <<EOM
NOTICE:  Your previous config.sh list may be incorrect.
The extensions now available to you are
 ${avail_ext}
but the default list from your previous config.sh is
 ${dynamic_ext}

EOM
   fi
   ;;
  esac
  ;;
 esac
 case "$dflt" in
 ") dflt=none;;
 esac
 rp="What extensions do you wish to load dynamically?"
 . ./myread
 case "$ans" in
?X: Use ' ' so a subsequent Configure will preserve that value.
 none) dynamic_ext=' ' ;;
 *) dynamic_ext="$ans" ;;
```

```
 esac

 case "$static_ext"
 in
 ")
  : Exclude those already listed in dynamic linking
  dflt="
  for xxx in $avail_ext; do
   case " $dynamic_ext " in
   *" $xxx "*) ;;
   *) dflt="$dflt $xxx" ;;
   esac
  done
  set X $dflt
  shift
  dflt="$*"
  ;;
 *)  dflt="$static_ext"
  ;;
 esac

 case "$dflt" in
 ") dflt=none;;
 esac
 rp="What extensions do you wish to load statically?"
 . ./myread
 case "$ans" in
?X: Use ' ' so a subsequent Configure will preserve that value.
 none) static_ext=' ' ;;
 *) static_ext="$ans" ;;
 esac
 ;;
*)
 $cat <<EOM
A number of extensions are supplied with $package.  Answer "none"
to include no extensions.
Note that DynaLoader is always built and need not be mentioned here.

EOM
 case "$static_ext" in
 ") dflt="$avail_ext" ;;
 *) dflt="$static_ext"
  # Perhaps we are reusing an old out-of-date config.sh.
  case "$hint" in
  previous)
   if test X"$static_ext" != X"$avail_ext"; then
    $cat <<EOM
NOTICE:  Your previous config.sh list may be incorrect.
```

```
The extensions now available
 to you are
 ${avail_ext}
but the default list from your previous config.sh is
 ${static_ext}

EOM
   fi
   ;;
  esac
  ;;
 esac
 : Exclude those that are not xs extensions
 case "$dflt" in
 ") dflt=none;;
 esac
 rp="What extensions do you wish to include?"
 . ./myread
 case "$ans" in
?X: Use ' ' so a subsequent Configure will preserve that value.
 none) static_ext=' ' ;;
 *) static_ext="$ans" ;;
 esac
 ;;
esac
#
# Encode is a special case.  If we are building Encode as a static
# extension, we need to explicitly list its subextensions as well.
# For other nested extensions, this is handled automatically by
# the appropriate Makefile.PL.
case " $static_ext " in
 *" Encode "*) # Add the subextensions of Encode
 cd "$rsrc/cpan"
 for xxx in `ls Encode/*/Makefile.PL|awk -F/ '{print $2}'`; do
  static_ext="$static_ext Encode/$xxx"
  known_extensions="$known_extensions Encode/$xxx"
 done
 cd "$tdir"
 ;;
esac

set X $dynamic_ext $static_ext $nonxs_ext
shift
extensions="$*"

# Sanity check:
  We require an extension suitable for use with
# AnyDBM_File, as well as Fcntl and IO.  (Failure to have these
```

```
# should show up as failures in the test suite, but it's helpful to
# catch them now.) The 'extensions' list is normally sorted
# alphabetically, so we need to accept either
#    DB_File ... Fcntl ... IO  ....
# or something like
#    Fcntl ... NDBM_File ... IO  ....
case " $extensions"  in
*"_File "*" Fcntl "*" IO "*) ;; # DB_File
*" Fcntl "*"_File "*" IO "*) ;; # GDBM_File
*" Fcntl "*" IO "*"_File "*) ;; # NDBM_File
*) echo "WARNING: Extensions DB_File or *DBM_File, Fcntl, and IO not configured." >&4
  echo "WARNING: The Perl you are building will be quite crippled." >& 4
  ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/Extensions.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sitebin.U,v $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sitebin.U,v $
?RCS:
?MAKE:sitebin sitebinexp installsitebin : Getfile Oldconfig \
 Setprefixvar siteprefix
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitebin="
?S:sitebin:
?S: This variable holds the name of the directory in which the user wants
?S: to put add-on publicly executable files for the package in question.  It
?S: is most often a local directory such as /usr/local/bin. Programs using
?S: this variable must be prepared to deal with ~name substitution.
?S: The standard distribution will put nothing
 in this directory.
?S: After perl has been installed, users may install their own local
?S: executables in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
```

```
?S:.
?D:sitebinexp=''
?S:sitebinexp:
?S: This is the same as the sitebin variable, but is filename expanded at
?S: configuration time, for use in your makefiles.
?S:.
?D:installsitebin=''
?S:installsitebin:
?S: This variable is usually the same as sitebinexp, unless you are on
?S: a system running AFS, in which case they may differ slightly. You
?S: should always use this variable within your makefiles for portability.
?S:.
?LINT:change prefixvar
?LINT:set installsitebin
?LINT:set sitebin
?LINT:set sitebinexp
: determine where add-on public executables go
case "$sitebin" in
'') dflt=$siteprefix/bin ;;
*) dflt=$sitebin ;;
esac
fn=d~
rp='Pathname where the add-on public executables should be installed?'
. ./getfile
prefixvar=sitebin
. ./setprefixvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/sitebin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_rusage.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_rusage.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X: We may need to include <sys/resource.h> and <sys/time.h> FIXME
?X:INC: i_sysresrc i_systime
```

```
?MAKE:d_rusage: Inlibc
?MAKE: -pick add $@ %<
?S:d_rusage (d_getrusg):
?S: This variable conditionally defines the HAS_GETRUSAGE symbol, which
?S: indicates that the getrusage() routine exists.  The getrusage() routine
?S: supports sub-second accuracy
 for process cpu accounting. You may need
?S: to include <sys/resource.h> and <sys/time.h>.
?S:.
?C:HAS_GETRUSAGE (RUSAGE GETRUSAGE):
?C: This symbol, if defined, indicates that the getrusage() routine is
?C: available to get process statistics with a sub-second accuracy.
?C: Inclusion of <sys/resource.h> and <sys/time.h> may be necessary.
?C:.
?H:#$d_rusage HAS_GETRUSAGE  /**/
?H:.
?LINT:set d_rusage
: see if getrusage exists
set getrusage d_rusage
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_rusage.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_wait3.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_wait3.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_wait3: Inlibc
?MAKE: -pick add $@ %<
?S:d_wait3:
?S: This variable conditionally defines the HAS_WAIT3 symbol, which
?S: indicates to the C program that the wait3() subroutine exists.
?S:.
?C:HAS_WAIT3:
?C: This symbol, if defined, indicates that the wait3() subroutine
```

```
?C: exists.
?C:.
?H:#$d_wait3 HAS_WAIT3 /**/
?H:.
?LINT:set d_wait3
:
 see if 'wait3()' exists
set wait3 d_wait3
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_wait3.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_systimeb.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_systimeb.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:37  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit looks wether <sys/timeb.h> should be included
?X: or not when using ftime() (for struct timeb definition).
?X:
?X: Force looking for <sys/time.h> for struct timeb.
?X:INC: i_systime
?MAKE:i_systimeb: test contains Loc Setvar Findhdr
?MAKE: -pick add $@ %<
?S:i_systimeb:
?S: This variable conditionally defines I_SYS_TIMEB,
 which indicates
?S: to the C program that it should include <sys/timeb.h>.
?S:.
?C:I_SYS_TIMEB (I_SYSTIMEB):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/timeb.h>, in order to define struct timeb (some systems
?C: define this in <sys/time.h>). This is useful when using ftime().
?C: You should include <sys/time.h> if I_SYS_TIMEB is not defined,
?C: nor is I_SYS_TIME.
```

```
?C:.
?H:#$i_systimeb I_SYS_TIMEB  /**/
?H:.
?T:xxx
?LINT:set i_systimeb
: see where struct timeb is defined
echo " "
xxx=`./findhdr sys/timeb.h`
if $test "$xxx"; then
 if $contains 'struct timeb' $xxx >/dev/null 2>&1; then
  val="$define"
  echo "You have struct timeb defined in <sys/timeb.h>." >&4
 else
  val="$undef"
  echo "Assuming struct timeb is defined in <sys/time.h>." >&4
 fi
else
 val="$undef"
echo "No <sys/timeb.h> -- Assuming struct timeb is defined in <sys/time.h>." >&4
fi
set i_systimeb
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_systimeb.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_msem_lck.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msem_lck.U,v $
?MAKE:d_msem_lck: Inlibc
?MAKE: -pick add $@ %<
?S:d_msem_lck:
?S: This variable conditionally defines HAS_MSEM_LOCK if msem_lock() is
?S: available, thereby indicating kernel support for memory semaphores.
?S:.
?C:HAS_MSEM_LOCK:
?C: This symbol, if defined, indicates that memory semaphores are
?C: available to protect mmap()'ed regions.
```

```
?C:.
?H:#$d_msem_lck HAS_MSEM_LOCK  /**/
?H:.
?LINT:set d_msem_lck
: see if msem_lock exists
set
 msem_lock d_msem_lck
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_msem_lck.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Init.U,v 3.0.1.1 1994/10/31 09:45:59 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Init.U,v $
?RCS: Revision 3.0.1.1  1994/10/31  09:45:59  ram
?RCS: patch44: removed Options from MAKE to prevent Init overrides
?RCS: patch44: option processing now done after Myinit thanks to new Begin.U
?RCS: patch44: moved "Beginning of configuration questions" to Begin.U
?RCS: patch44: moved signal trapping instruction to Begin.U as well
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file
 initializes certain default variables used by Configure.  They
?X: may be overridden or added to by definitions in Myinit.U.
?X:
?MAKE:Init eunicefix: Null
?MAKE: -pick add $@ %<
?MAKE: -pick weed $@ ./Init
?S:eunicefix:
?S: When running under Eunice this variable contains a command which will
?S: convert a shell script to the proper form of text file for it to be
?S: executable by the shell.  On other systems it is a no-op.
?S:.
?V:define undef smallmach:rmlist
```

```
?X:
?X: Throughout the units, one may make use of $define and $undef to reference
?X: a defined symbol or an undefined one. There is no need to add them in
?X: the dependency line since this unit makes them visible via ?V:, and
?X: everyone inherits from those symbols since by convention Init.U is the
?X: root dependency.
?X:
?LINT:extern DJGPP
?LINT:extern _exe
?LINT:change _exe
?LINT:extern is_os2
: Detect odd OSs
define='define'
undef='undef'
smallmach='pdp11 i8086 z8000 i80286 iAPX286'
rmlist=''

: We must find out about
 Eunice early
eunicefix=':'
if test -f /etc/unixtovms; then
 eunicefix=/etc/unixtovms
fi
if test -f /etc/unixtovms.exe; then
 eunicefix=/etc/unixtovms.exe
fi

: Set executable suffix now -- needed before hints available
if test -f "/libs/version.library"; then
: Amiga OS
   _exe=""
elif test -f "/system/gnu_library/bin/ar.pm"; then
: Stratus VOS
   _exe=".pm"
elif test -n "$DJGPP"; then
: DOS DJGPP
   _exe=".exe"
elif test -f /kern/cookiejar; then
: MiNT
   _exe=""
elif test -d c:/. -o -n "$is_os2" ; then
: OS/2 or cygwin
   _exe=".exe"
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Init.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_locconv.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_locconv.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:14:11  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_locconv: Inlibc
?MAKE: -pick add $@ %<
?S:d_locconv:
?S: This variable conditionally defines HAS_LOCALECONV if localeconv() is
?S: available for numeric and monetary formatting conventions.
?S:.
?C:HAS_LOCALECONV:
?C: This symbol, if defined, indicates that the localeconv
 routine is
?C: available for numeric and monetary formatting conventions.
?C:.
?H:#$d_locconv HAS_LOCALECONV /**/
?H:.
?LINT:set d_locconv
: see if localeconv exists
set localeconv d_locconv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_locconv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: man3dir.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:10:34  ram
?RCS: patch61: created
?RCS:
?X:
?X: This was originally specific to perl5.  Since perl5 has man pages that
?X: go in both man1/ and man3/ directories, we need both man1dir
?X: and man3dir.  This unit is basically dist's mansrc.U with
?X: man3 used instead of man everywhere.
?X: I then added various tests because perl5 has *lots* of man3
?X: pages with long file names. -- ADO
?X:
?MAKE:man3dir
 man3direxp man3ext installman3dir: afs cat nroff Loc Oldconfig \
 sed man1dir spackage package Getfile prefix Prefixit Prefixup \
 d_flexfnam privlib Myread
?MAKE: -pick add $@ %<
?Y:TOP
?S:man3dir:
?S: This variable contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?S:man3direxp:
?S: This variable is the same as the man3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?S:installman3dir:
?S: This variable is really the same as man3direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man3direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:man3ext:
?S: This variable contains the extension that the manual
 page should
?S: have: one of 'n', 'l', or '3'.  The Makefile must supply the '.'.
?S: See man3dir.
?S:.
: determine where library module manual pages go
set man3dir man3dir none
eval $prefixit
$cat <<EOM
```

```
$spackage has manual pages for many of the library modules.
EOM

case "$nroff" in
nroff)
 $cat <<'EOM'
However, you don't have nroff, so they're probably useless to you.
EOM
 case "$man3dir" in
 ") man3dir="none";;
 esac;;
esac

case "$d_flexfnam" in
undef)
 $cat <<'EOM'
However, your system can't handle the long file names like File::Basename.3.
EOM
 case "$man3dir" in
 ") man3dir="none";;
 esac;;
esac

echo "If you don't want the manual sources installed, answer 'none'."
?X: We dont use /usr/local/man/man3 because some man programs will
?X: only show the /usr/local/man/man3 contents, and not the system ones,
?X: thus man less will show the perl module less.pm, but not the system
?X: less command.  We might also conflict with TCL man pages.
?X: However, something like /opt/perl/man/man3
 is fine.
case "$man3dir" in
") case "$prefix" in
 *$package*) dflt=`echo $man1dir |
   $sed -e 's/man1/man3/g' -e 's/man\.1/man\.3/g'` ;;
 *) dflt="$privlib/man/man3" ;;
 esac
 ;;
' ') dflt=none;;
*) dflt="$man3dir" ;;
esac
echo " "

fn=dn+~
rp="Where do the $package library man pages (source) go?"
. ./getfile
if test "X$man3direxp" != "X$ansexp"; then
 installman3dir="
```

```
fi

man3dir="$ans"
man3direxp="$ansexp"
case "$man3dir" in
") man3dir=' '
 installman3dir=";;
esac
if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
manual pages reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installman3dir" in
 ") dflt=`echo $man3direxp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installman3dir";;
 esac
 fn=de~
 rp='Where will man pages be installed?'
 . ./getfile
 installman3dir="$ans"
else
 installman3dir="$man3direxp"
fi

: What suffix
 to use on installed man pages

case "$man3dir" in
' ')
 man3ext='0'
 ;;
*)
 rp="What suffix should be used for the $package library man pages?"
 case "$man3ext" in
 ") case "$man3dir" in
  *3)  dflt=3 ;;
  *3p) dflt=3p ;;
  *3pm) dflt=3pm ;;
  *l) dflt=l;;
  *n) dflt=n;;
  *o) dflt=o;;
  *p) dflt=p;;
  *C) dflt=C;;
  *L) dflt=L;;
```

```
  *L3) dflt=L3;;
  *) dflt=3;;
  esac
  ;;
 *) dflt="$man3ext";;
 esac
 . ./myread
 man3ext="$ans"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/man3dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libdbm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libdbm.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:56:57  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libdbm: test Loc libpth _a
?MAKE: -pick add $@ %<
?S:libdbm:
?S: This variable contains the argument to pass to the loader in order
?S: to get the dbm library routines.  If there is no dbm or ndbm
?S: library, it is null.
?S:.
?T:xxx
:
 see if we should include -ldbm
echo " "
if $test -r /usr/lib/libndbm$_a || $test -r /usr/local/lib/libndbm$_a ; then
 echo "-lndbm found." >&4
 libdbm='-lndbm'
elif $test -r /usr/lib/libdbm$_a || $test -r /usr/local/lib/libdbm$_a ; then
```

```
 echo "-ldbm found." >&4
 libdbm='-ldbm'
else
 xxx=`./loc libdbm$_a x $libpth`
 case "$xxx" in
 x)
  echo "No dbm library found." >&4
  libdbm=''
  ;;
 *)
  echo "DBM library found in $xxx." >&4
  libdbm="$xxx"
  ;;
 esac
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/libdbm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: dlsrc.U,v$
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: dlext.U,v $
?RCS:
?X:  hpux support thanks to Jeff Okamoto <okamoto@hpcc101.corp.hp.com>
?X:
?X:  To create a shared library, you must compile ALL source files in the
?X:  library with +z (or possibly +Z if the library is whopping huge),
?X:  then link the library with -b.  Example:
?X:   cc -c +z module_a.c
?X:   cc -c +z module_b.c
?X:   ld -b module_a.o module_b.o -o module.sl
?X:
?MAKE:dlext: \
 Getfile Myread cat usedl so
?MAKE: -pick add $@ %<
?Y:BOTTOM
?S:dlext:
?S: This variable contains the extension that is to be used for the
?S: dynamically loaded modules that perl generates.
?S:.
: Check what extension to use for shared libs
```

```
case "$usedl" in
$define|y|true)
 $cat <<
 EOM

On a few systems, the dynamically loaded modules that perl generates and uses
will need a different extension than shared libs. The default will probably
be appropriate.

EOM
 case "$dlext" in
 ") dflt="$so" ;;
 *) dflt="$dlext" ;;
 esac
 rp='What is the extension of dynamically loaded modules'
 . ./myread
 dlext="$ans"
 ;;
*)
 dlext="none"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/dlext.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2017, Karl Williamson
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_wchar: Inhdr
?MAKE: -pick add $@ %<
?S:i_wchar:
?S: This variable conditionally defines the I_WCHAR symbol,
?S: that indicates whether a C program may include <wchar.h>.
?S:.
?C:I_WCHAR:
?C: This symbol, if defined, indicates to the C program that <wchar.h>
?C: is available for inclusion
?C:.
```

```
?H:#$i_wchar   I_WCHAR /**/
?H:.
?LINT:set i_wchar
: see if wchar.h is present
set wchar.h i_wchar
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_wchar.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getmnt: Inlibc
?MAKE: -pick add $@ %<
?S:d_getmnt:
?S: This variable conditionally defines the HAS_GETMNT symbol, which
?S: indicates to the C program that the getmnt() routine is available
?S: to retrieve one or more mount info blocks by filename.
?S:.
?C:HAS_GETMNT:
?C: This symbol, if defined, indicates that the getmnt routine is
?C: available to get filesystem mount info by filename.
?C:.
?H:#$d_getmnt HAS_GETMNT  /**/
?H:.
?LINT:set d_getmnt
: see if getmnt exists
set getmnt d_getmnt
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getmnt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_asinh: Inlibc
?MAKE: -pick add $@ %<
?S:d_asinh:
```

```
?S: This variable conditionally defines the HAS_ASINH symbol, which
?S: indicates to the C program that the asinh() routine is available.
?S:.
?C:HAS_ASINH:
?C: This symbol, if defined, indicates that the asinh routine is
?C: available to do the inverse hyperbolic sine function.
?C:.
?H:#$d_asinh HAS_ASINH  /**/
?H:.
?LINT:set d_asinh
: see if asinh exists
set asinh d_asinh
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_asinh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_scannl.U,v 3.0.1.2 1997/02/28 15:41:27 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_scannl.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:41:27  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  13:59:12  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:00  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Does the scanf routine read "\n" correctly ? This is was not
?X: the case on AIX...
?X:
?MAKE:d_scannl: cat rm Setvar Compile run
?MAKE: -pick
 add $@ %<
?S:d_scannl:
?S: This variable conditionally defines SCAN_NL, which indicates
```

```
?S: whether the C library routines scanf() and friends can deal with
?S: a '\n' in the input correctly. They do most of the time.
?S:.
?C:SCAN_NL:
?C: This symbol is defined if the C library routines scanf() and friends
?C: can deal with a '\n' in the input correctly, so that you can say
?C: scanf("%d\n"); instead of scanf("%d"); getc(c); to handle the '\n'.
?C:.
?H:#$d_scannl SCAN_NL  /* scanf("%d\n") works */
?H:.
?F:!try
?LINT:set d_scannl
: does scanf handle "\n" correctly ?
echo " "
val="$define"
?X: I really want to say "\n" instead of '\n', because I am referring
?X: to the string given as argument to scanf().
echo 'Let""""s see if scanf() handles "\\n" correctly...' >&4
$cat >try.c <<'EOCP'
int main()
{
 int i = 0, j = 0;
 scanf("%d\n%d", &i, &j);
 if (j != 3)
  exit(1);
 exit(0);
}
EOCP
set try
if eval $compile_ok; then
 if $run ./try <<'EOD'
2
3
EOD
 then
  echo "Yes, it does."
 else
  echo
 "No, it doesn't."
  val="$undef"
 fi
else
 echo "(I can't seem to compile the test program. Assuming it does.)"
fi
set d_scannl
eval $setvar
$rm -f try.* try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_scannl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_wait4.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_wait4.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_wait4: Inlibc
?MAKE: -pick add $@ %<
?S:d_wait4:
?S: This variable conditionally defines the HAS_WAIT4 symbol, which
?S: indicates the wait4() routine is available.
?S:.
?C:HAS_WAIT4 (WAIT4):
?C: This symbol, if defined, indicates that wait4() exists.
?C:.
?H:#$d_wait4 HAS_WAIT4 /**/
?H:.
?LINT:set d_wait4
: see if there is a wait4
set
 wait4 d_wait4
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_wait4.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysmount.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
```

```
?MAKE:i_sysmount: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysmount:
?S: This variable conditionally defines the I_SYSMOUNT symbol,
?S: and indicates whether a C program should include <sys/mount.h>.
?S:.
?C:I_SYS_MOUNT:
?C: This symbol, if defined, indicates that <sys/mount.h> exists and
?C: should be included.
?C:.
?H:#$i_sysmount I_SYS_MOUNT  /**/
?H:.
?LINT:set i_sysmount
: see if this is a sys/mount.h system
set sys/mount.h i_sysmount
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysmount.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setpgrp.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:44:16  ram
?RCS: patch61: obsoleted USE_BSDGRP in favor of USE_BSD_SETPGRP
?RCS: patch61: another unit now also defines a USE_BSD_GETPGRP
?RCS: patch61: fallback for test program failure improved
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  13:59:30  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:15:37  ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
 patch36: call ./usg explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:09  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?MAKE:d_setpgrp d_bsdsetpgrp: cat rm +cc +libs +ccflags \
 +ldflags Inlibc Guess Setvar i_unistd
?MAKE: -pick add $@ %<
?S:d_setpgrp:
?S: This variable conditionally defines HAS_SETPGRP if setpgrp() is
?S: available to set the current process group.
?S:.
?S:d_bsdsetpgrp (d_bsdpgrp):
?S: This variable conditionally defines USE_BSD_SETPGRP if
?S: setpgrp needs two arguments whereas USG one needs none.
?S: See also d_setpgid for a POSIX interface.
?S:.
?C:HAS_SETPGRP (SETPGRP):
?C: This symbol, if defined, indicates that the setpgrp routine is
?C: available to set the current process group.
?C:.
?C:USE_BSD_SETPGRP (USE_BSDPGRP BSDPGRP):
?C: This symbol, if defined, indicates that setpgrp needs two
?C: arguments whereas USG one needs none.  See also HAS_SETPGID
?C: for a POSIX interface.
?C:.
?H:#$d_setpgrp HAS_SETPGRP  /**/
?H:#$d_bsdsetpgrp
 USE_BSD_SETPGRP /**/
?H:.
?F:!set.c !set
?T:xxx
?LINT:set d_setpgrp d_bsdsetpgrp
: see if setpgrp exists
set setpgrp d_setpgrp
eval $inlibc

@if USE_BSD_SETPGRP || d_bsdsetpgrp
case "$d_setpgrp" in
"$define")
 echo " "
 echo "Checking to see which flavor of setpgrp is in use..."
 $cat >set.c <<EOP
#$i_unistd I_UNISTD
#include <sys/types.h>
#ifdef I_UNISTD
#  include <unistd.h>
#endif
int main()
{
 if (getuid() == 0) {
  printf("(I see you are running Configure as super-user...)\n");
```

```
  setuid(1);
 }
#ifdef TRY_BSD_PGRP
 if (-1 == setpgrp(1, 1))
  exit(0);
#else
 if (setpgrp() != -1)
  exit(0);
#endif
 exit(1);
}
EOP
 if $cc -DTRY_BSD_PGRP $ccflags $ldflags -o set set.c $libs >/dev/null 2>&1 && ./set; then
  echo 'You have to use setpgrp(pid,pgrp) instead of setpgrp().' >&4
  val="$define"
 elif $cc $ccflags $ldflags -o set set.c $libs >/dev/null 2>&1 && ./set; then
  echo 'You have to use setpgrp() instead of setpgrp(pid,pgrp).' >&4
  val="$undef"
 else
  echo "(I can't
 seem to compile and run the test program.)"
  if ./usg; then
   xxx="a USG one, i.e. you use setpgrp()."
  else
   # SVR4 systems can appear rather BSD-ish.
   case "$i_unistd" in
   $undef)
    xxx="a BSD one, i.e. you use setpgrp(pid,pgrp)."
    val="$define"
    ;;
   $define)
    xxx="probably a USG one, i.e. you use setpgrp()."
    val="$undef"
    ;;
   esac
  fi
  echo "Assuming your setpgrp is $xxx" >&4
 fi
 ;;
*) val="$undef";;
esac
set d_bsdsetpgrp
eval $setvar
$rm -f set set.c
@end
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/dist/U/d_setpgrp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethostprotos.U,v $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_gethostprotos : Hasproto i_netdb
?MAKE: -pick add $@ %<
?S:d_gethostprotos:
?S: This variable conditionally defines the HAS_GETHOST_PROTOS symbol,
?S: which indicates to the C program that <netdb.h> supplies
?S: prototypes for the various gethost*() functions.
?S: See also netdbtype.U for probing for various netdb types.
?S:.
?C:HAS_GETHOST_PROTOS:
?C: This symbol, if defined, indicates that <netdb.h> includes
?C: prototypes for gethostent(), gethostbyname(), and
?C: gethostbyaddr().  Otherwise,
 it is up to the program to guess
?C: them.  See netdbtype.U for probing for various Netdb_xxx_t types.
?C:.
?H:#$d_gethostprotos HAS_GETHOST_PROTOS /**/
?H:.
?LINT:set d_gethostprotos
?X: This test actually only checks for gethostent() and assumes the
?X: others follow suit.  This test fails for ChorusOS, which has
?X: gethostbyname and gethostbyaddr, but not gethostent.
: see if prototypes for various gethostxxx netdb.h functions are available
echo " "
set d_gethostprotos gethostent $i_netdb netdb.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/d_gethostprotos.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: doublesize.U,v 3.0.1.1 1994/10/29 16:17:06 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
```

```
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: doublesize.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:17:06  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:06  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:doublesize: cat rm_try Myread Compile run i_stdlib
?MAKE: -pick add $@ %<
?S:doublesize:
?S: This variable contains the value of the DOUBLESIZE symbol, which
?S: indicates to the C program how many bytes there are in a double.
?S:.
?C:DOUBLESIZE:
?C: This
 symbol contains the size of a double, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define DOUBLESIZE $doublesize  /**/
?H:.
?F:!try
: check for length of double
echo " "
case "$doublesize" in
")
 echo "Checking to see how big your double precision numbers are..." >&4
 $cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
{
   printf("%d\n", (int)sizeof(double));
   exit(0);
}
EOCP
 set try
 if eval $compile_ok; then
  doublesize=`$run ./try`
  echo "Your double is $doublesize bytes long."
```

```
 else
  dflt='8'
  echo "(I can't seem to compile the test program.  Guessing...)"
  rp="What is the size of a double precision number (in bytes)?"
  . ./myread
  doublesize="$ans"
 fi
 ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/doublesize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_getespwnam: Inlibc
?MAKE: -pick add $@ %<
?S:d_getespwnam:
?S: This variable conditionally defines HAS_GETESPWNAM if getespwnam() is
?S: available to retrieve enhanced (shadow) password entries by name.
?S:.
?C:HAS_GETESPWNAM:
?C: This symbol, if defined, indicates that the getespwnam system call is
?C: available to retrieve enhanced (shadow) password entries by name.
?C:.
?H:#$d_getespwnam HAS_GETESPWNAM  /**/
?H:.
?LINT:set d_getespwnam
: see if getespwnam exists
set getespwnam d_getespwnam
eval $inlibc
```

Found in
 path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getespwnam.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998, Jarkko Hietaniemi
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_inttypes: Inhdr cat rm_try Setvar Compile
?MAKE: -pick add $@ %<
?S:i_inttypes:
?S: This variable conditionally defines the I_INTTYPES symbol,
?S: and indicates whether a C program should include <inttypes.h>.
?S:.
?C:I_INTTYPES:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <inttypes.h>.
?C:.
?H:#$i_inttypes   I_INTTYPES                /**/
?H:.
?LINT:set i_inttypes
: see if inttypes.h is available
: we want a real compile instead of Inhdr because some systems
: have an inttypes.h
 which includes non-existent headers
echo " "
$cat >try.c <<EOCP
#include <inttypes.h>
int main() {
 static int32_t foo32 = 0x12345678;
}
EOCP
set try
if eval $compile; then
 echo "<inttypes.h> found." >&4
 val="$define"
else
 echo "<inttypes.h> NOT found." >&4
 val="$undef"
fi
$rm_try
set i_inttypes
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_inttypes.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_lgamma_r: Inlibc
?MAKE: -pick add $@ %<
?S:d_lgamma_r:
?S: This variable conditionally defines the HAS_LGAMMA_R symbol, which
?S: indicates to the C program that the lgamma_r() routine is available
?S: for the log gamma function, without using the global signgam variable.
?S:.
?C:HAS_LGAMMA_R:
?C: This symbol, if defined, indicates that the lgamma_r routine is
?C: available to do the log gamma function without using the global
?C: signgam variable.
?C:.
?H:#$d_lgamma_r HAS_LGAMMA_R  /**/
?H:.
?LINT:set d_lgamma_r
: see if lgamma_r exists
set lgamma_r d_lgamma_r
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lgamma_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getprotobynumber_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getprotobynumber_r getprotobynumber_r_proto: Inlibc Protochk \
 Hasproto i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getprotobynumber_r:
?S: This variable conditionally defines the HAS_GETPROTOBYNUMBER_R symbol,
?S: which indicates to the C program that the getprotobynumber_r()
?S: routine is available.
?S:.
```

```
?S:getprotobynumber_r_proto:
?S: This variable encodes the prototype of getprotobynumber_r.
?S: It is zero if d_getprotobynumber_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getprotobynumber_r
?S: is defined.
?S:.
?C:HAS_GETPROTOBYNUMBER_R:
?C: This
 symbol, if defined, indicates that the getprotobynumber_r routine
?C: is available to getprotobynumber re-entrantly.
?C:.
?C:GETPROTOBYNUMBER_R_PROTO:
?C: This symbol encodes the prototype of getprotobynumber_r.
?C: It is zero if d_getprotobynumber_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getprotobynumber_r
?C: is defined.
?C:.
?H:#$d_getprotobynumber_r HAS_GETPROTOBYNUMBER_R /**/
?H:#define GETPROTOBYNUMBER_R_PROTO $getprotobynumber_r_proto /**/
?H:.
?T:try hdrs d_getprotobynumber_r_proto
: see if getprotobynumber_r exists
set getprotobynumber_r d_getprotobynumber_r
eval $inlibc
case "$d_getprotobynumber_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getprotobynumber_r_proto:$usethreads" in
 ":define") d_getprotobynumber_r_proto=define
  set d_getprotobynumber_r_proto getprotobynumber_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getprotobynumber_r_proto" in
 define)
 case "$getprotobynumber_r_proto"
 in
 "|0) try='int getprotobynumber_r(int, struct protoent*, char*, size_t, struct protoent**);'
 ./protochk "$extern_C $try" $hdrs && getprotobynumber_r_proto=I_ISBWR ;;
 esac
 case "$getprotobynumber_r_proto" in
 "|0) try='struct protoent* getprotobynumber_r(int, struct protoent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getprotobynumber_r_proto=S_ISBI ;;
 esac
 case "$getprotobynumber_r_proto" in
 "|0) try='int getprotobynumber_r(int, struct protoent*, struct protoent_data*);'
 ./protochk "$extern_C $try" $hdrs && getprotobynumber_r_proto=I_ISD ;;
 esac
```

```
 case "$getprotobynumber_r_proto" in
 "|0) d_getprotobynumber_r=undef
  getprotobynumber_r_proto=0
  echo "Disabling getprotobynumber_r, cannot determine prototype." >&4 ;;
 * ) case "$getprotobynumber_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getprotobynumber_r_proto="REENTRANT_PROTO_$getprotobynumber_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getprotobynumber_r
 has no prototype, not using it." >&4 ;;
  esac
  d_getprotobynumber_r=undef
  getprotobynumber_r_proto=0
  ;;
 esac
 ;;
*) getprotobynumber_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getprotobynumber_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_passwd.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_passwd.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:37:21  ram
?RCS: patch61: useless unit dropped.
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:09:51  ram
?RCS: patch32: created by ADO
?RCS:
```

```
?X:
?X: Useless unit dropped.
?X:
?LINT:empty
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_passwd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_semctl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_semctl.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_semctl: Inlibc
?MAKE: -pick add $@ %<
?S:d_semctl:
?S: This variable conditionally defines the HAS_SEMCTL symbol, which
?S: indicates to the C program that the semctl() routine is available.
?S:.
?C:HAS_SEMCTL:
?C: This symbol, if defined, indicates that the semctl() routine is
?C: available to perform semaphore control operations.
?C:.
?H:#$d_semctl
 HAS_SEMCTL /**/
?H:.
?LINT:set d_semctl
: see if semctl exists
set semctl d_semctl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_semctl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_j0 d_j0l: Inlibc
?MAKE: -pick add $@ %<
?S:d_j0:
?S: This variable conditionally defines the HAS_J0 symbol, which
?S: indicates to the C program that the j0() routine is available.
?S:.
?S:d_j0l:
?S: This variable conditionally defines the HAS_J0L symbol, which
?S: indicates to the C program that the j0l() routine is available.
?S:.
?C:HAS_J0:
?C: This symbol, if defined, indicates to the C program that the
?C: j0() function is available for Bessel functions of the first
?C: kind of the order zero, for doubles.
?C:.
?C:HAS_J0L:
?C: This symbol, if defined, indicates to the C program that the
?C: j0l() function is available for Bessel functions of the first
?C: kind of the order zero, for long doubles.
?C:.
?H:#$d_j0 HAS_J0  /**/
?H:#$d_j0l HAS_J0L  /**/
?H:.
?LINT:set
 d_j0
?LINT:set d_j0l
: see if j0 exists
set j0 d_j0
eval $inlibc

: see if j0l exists
set j0l d_j0l
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_j0.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_dirent.U,v 3.0.1.4 1994/10/29 16:20:01 ram Exp $
?RCS:
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```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: i_dirent.U,v $
?RCS: Revision 3.0.1.4  1994/10/29  16:20:01  ram
?RCS: patch36: failed scanning for 'd_namlen' with missing <dirent.h> (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:01:25  ram
?RCS: patch30: added direntrytype for hints, merely for NeXT (ADO)
?RCS: patch30: now checks for both struct dirent and direct (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:22:37  ram
?RCS: patch27: new variable direntrytype for proper type setting (ADO)
?RCS:
?RCS:
 Revision 3.0.1.1  1994/01/24  14:11:15  ram
?RCS: patch16: added new Direntry_t pseudo-type for directory entries
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit looks whether there is a dirent system or not
?X:
?MAKE:i_dirent d_dirnamlen direntrytype: test contains Setvar \
 Myread Findhdr cppstdin cppflags cppminus rm_try
?MAKE: -pick add $@ %<
?S:i_dirent:
?S: This variable conditionally defines I_DIRENT, which indicates
?S: to the C program that it should include <dirent.h>.
?S:.
?S:d_dirnamlen:
?S: This variable conditionally defines DIRNAMLEN, which indicates
?S: to the C program that the length of directory entry names is
?S: provided by a d_namelen field.
?S:.
?S:direntrytype:
?S: This symbol is set to 'struct direct' or 'struct dirent' depending on
?S: whether dirent is available or not. You should use this pseudo type to
?S: portably declare your directory entries.
?S:.
?C:I_DIRENT:
?C: This symbol,
 if defined, indicates to the C program that it should
?C: include <dirent.h>. Using this symbol also triggers the definition
?C: of the Direntry_t define which ends up being 'struct dirent' or
?C: 'struct direct' depending on the availability of <dirent.h>.
?C:.
```

```
?C:DIRNAMLEN:
?C: This symbol, if defined, indicates to the C program that the length
?C: of directory entry names is provided by a d_namlen field.  Otherwise
?C: you need to do strlen() on the d_name field.
?C:.
?C:Direntry_t:
?C: This symbol is set to 'struct direct' or 'struct dirent' depending on
?C: whether dirent is available or not. You should use this pseudo type to
?C: portably declare your directory entries.
?C:.
?H:#$i_dirent I_DIRENT  /**/
?H:#$d_dirnamlen DIRNAMLEN /**/
?H:?%<:@if I_DIRENT && Direntry_t
?H:?%<:#define Direntry_t $direntrytype
?H:?%<:@end
?H:.
?T:xinc guess1 guess2
?LINT:set i_dirent d_dirnamlen
: see if this is a dirent system
echo " "
if xinc=`./findhdr dirent.h`; $test "$xinc"; then
 val="$define"
 echo
 "<dirent.h> found." >&4
else
 val="$undef"
 if xinc=`./findhdr sys/dir.h`; $test "$xinc"; then
  echo "<sys/dir.h> found." >&4
  echo " "
 else
  xinc=`./findhdr sys/ndir.h`
 fi
 echo "<dirent.h> NOT found." >&4
fi
set i_dirent
eval $setvar

?X: Use struct dirent or struct direct?   If we're using dirent.h,
?X: it's probably struct dirent, but apparently not always.
?X: Assume $xinc still contains the name of the header file we're using.
@if direntrytype || Direntry_t
: Look for type of directory structure.
echo " "
$cppstdin $cppflags $cppminus < "$xinc" > try.c

case "$direntrytype" in
"|' ')
 case "$i_dirent" in
```

```
 $define) guess1='struct dirent' ;;
 *) guess1='struct direct'  ;;
 esac
 ;;
*) guess1="$direntrytype"
 ;;
esac

case "$guess1" in
'struct dirent') guess2='struct direct' ;;
*) guess2='struct dirent' ;;
esac

if $contains "$guess1" try.c >/dev/null 2>&1; then
 direntrytype="$guess1"
 echo "Your directory entries are $direntrytype." >&4
elif $contains "$guess2"
 try.c >/dev/null 2>&1; then
 direntrytype="$guess2"
 echo "Your directory entries seem to be $direntrytype." >&4
else
 echo "I don't recognize your system's directory entries." >&4
 rp="What type is used for directory entries on this system?"
 dflt="$guess1"
 . ./myread
 direntrytype="$ans"
fi
$rm_try

@end
@if d_dirnamlen || DIRNAMLEN
: see if the directory entry stores field length
echo " "
$cppstdin $cppflags $cppminus < "$xinc" > try.c
if $contains 'd_namlen' try.c >/dev/null 2>&1; then
 echo "Good, your directory entry keeps length information in d_namlen." >&4
 val="$define"
else
 echo "Your directory entry does not know about the d_namlen field." >&4
 val="$undef"
fi
set d_dirnamlen
eval $setvar
$rm_try

@end
```

Found in path(s):

* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_dirent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_arpainet.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_arpainet.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_arpainet: Inhdr
?MAKE: -pick add $@ %<
?S:i_arpainet:
?S: This variable conditionally defines the I_ARPA_INET symbol,
?S: and indicates whether a C program should include <arpa/inet.h>.
?S:.
?C:I_ARPA_INET:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <arpa/inet.h> to get inet_addr and friends
 declarations.
?C:.
?H:#$i_arpainet I_ARPA_INET  /**/
?H:.
?LINT:set i_arpainet
: see if arpa/inet.h has to be included
set arpa/inet.h i_arpainet
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_arpainet.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: nametype.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: nametype.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:26:09  ram
?RCS: patch36: call ./usg and ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:36:48  ram
?RCS: patch32: fixed typo: /etc/password -> /etc/passwd (WED)
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:10:09  ram
?RCS: patch10: made questions more explicit for 'Configure -s' prompting (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:20  ram
?RCS: Baseline
 for dist 3.0 netwide release.
?RCS:
?MAKE:nametype d_passnames d_berknames d_usgnames: Myread Guess Oldconfig cat
?MAKE: -pick add $@ %<
?S:nametype:
?S: This variable indicates how full names are stored on this system.
?S: Values are bsd, usg, and other.
?S:.
?S:d_passnames:
?S: This variable conditionally defines the PASSNAMES symbol,
?S: which indicates to the C program that full names are stored in
?S: the /etc/passwd file.
?S:.
?S:d_berknames:
?S: This variable conditionally defines the PASSNAMES symbol,
?S: which indicates to the C program that full names are stored in
?S: the /etc/passwd file in Berkeley format.
?S:.
?S:d_usgnames:
?S: This variable conditionally defines the PASSNAMES symbol,
?S: which indicates to the C program that full names are stored in
?S: the /etc/passwd file in USG format.
?S:.
?C:PASSNAMES:
?C: This symbol, if defined, indicates that full names are stored in
?C: the /etc/passwd file.
?C:.
?C:BERKNAMES:
?C: This symbol, if defined, indicates that full
 names are stored in
?C: the /etc/passwd file in Berkeley format (name first thing, everything
?C: up to first comma, with & replaced by capitalized login id, yuck).
?C:.
```

```
?C:USGNAMES:
?C: This symbol, if defined, indicates that full names are stored in
?C: the /etc/passwd file in USG format (everything after - and before ( is
?C: the name).
?C:.
?H:#$d_passnames PASSNAMES /*  (undef to take name from ~/.fullname) */
?H:#$d_berknames BERKNAMES /* (that is, ":name,stuff:") */
?H:#$d_usgnames USGNAMES  /* (that is, ":stuff-name(stuff):") */
?H:.
: find out how to find out full name
case "$d_berknames" in
"$define")
 dflt=y;;
"$undef")
 dflt=n;;
*)
 if ./bsd; then
  dflt=y
 elif ./xenix; then
  dflt=y
 else
  dflt=n
 fi
 ;;
esac
$cat <<'EOM'

Does your /etc/passwd file keep full names in Berkeley/V7 format (name first
thing after ':' in GCOS field)?  In that case, a typical entry in the password
file looks like this:

   guest:**paswword**:10:100:Mister Guest User:/usr/users:/bin/sh

                         ^^^^^^^^^^^^^^^^^^
EOM
rp="Berkeley/V7 format for full name in /etc/passwd?"
. ./myread
case "$ans" in
y*) d_passnames="$define"
 d_berknames="$define"
 d_usgnames="$undef"
 nametype=bsd
 ;;
*)
 case "$d_usgnames" in
 "$define") dflt=y;;
 "$undef") dflt=n;;
 *)
```

```
  if ./usg; then
   dflt=y
  else
   dflt=n
  fi
  ;;
 esac
$cat <<'EOM'

Does your passwd file keep full names in USG format (name sandwiched between a
'-' and a '(')?  In that case, a typical entry in the password file looks like
this:

   guest:**paswword**:10:100:000-Mister Guest User(000):/usr/users:/bin/sh
                              ^^^^^^^^^^^^^^^^^^
EOM
 rp="USG format for full name in /etc/passwd?"
 . ./myread
 case "$ans" in
 n*) echo "Full name will be taken from ~/.fullname"
  d_passnames="$undef"
  d_berknames="$undef"
  d_usgnames="$undef"
  nametype=other
  ;;
 *)
  d_passnames="$define"
  d_berknames="$undef"
  d_usgnames="$define"
  nametype=usg
  ;;
 esac;;
esac
```

Found in path(s):
*
 /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/nametype.U
No license file was found, but licenses were detected in source scan.

?RCS: Copyright (c) 2006-2007, H.Merijn Brand
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:

```
?MAKE:d_snprintf d_vsnprintf : Inlibc Compile cat run rm_try
?MAKE: -pick add $@ %<
?S:d_snprintf:
?S: This variable conditionally defines the HAS_SNPRINTF symbol, which
?S: indicates to the C program that the snprintf () library function
?S: is available.
?S:.
?S:d_vsnprintf:
?S: This variable conditionally defines the HAS_VSNPRINTF symbol, which
?S: indicates to the C program that the vsnprintf () library function
?S: is available.
?S:.
?C:HAS_SNPRINTF:
?C: This symbol, if defined, indicates that the snprintf () library
?C: function
 is available for use.
?C:.
?C:HAS_VSNPRINTF:
?C: This symbol, if defined, indicates that the vsnprintf () library
?C: function is available for use.
?C:.
?H:#$d_snprintf HAS_SNPRINTF /**/
?H:#$d_vsnprintf HAS_VSNPRINTF /**/
?H:.
?F:!try
: see if snprintf exists
set snprintf d_snprintf
eval $inlibc

: see if vsnprintf exists
set vsnprintf d_vsnprintf
eval $inlibc

case "$d_snprintf-$d_vsnprintf" in
"$define-$define")
   $cat <<EOM
Checking whether your snprintf() and vsnprintf() work okay...
EOM
   $cat >try.c <<'EOCP'
/* v?snprintf testing logic courtesy of Russ Allbery.
* According to C99:
* - if the buffer is too short it still must be \0-terminated
* - if the buffer is too short the potentially required length
*   must be returned and not -1
* - if the buffer is NULL the potentially required length
*   must be returned and not -1 or core dump
*/
#include <stdio.h>
```

```
#include <stdarg.h>

char buf[2];

int test (char *format, ...)
{
   va_list args;
   int count;

   va_start
 (args, format);
   count = vsnprintf (buf, sizeof buf, format, args);
   va_end (args);
   return count;
}

int main ()
{
   return ((test ("%s", "abcd") == 4 && buf[0] == 'a' && buf[1] == '\0'
           && snprintf (NULL, 0, "%s", "abcd") == 4) ? 0 : 1);
}
EOCP
   set try
   if eval $compile; then
 `$run ./try`
 case "$?" in
 0) echo "Your snprintf() and vsnprintf() seem to be working okay." ;;
 *) cat <<EOM >&4
Your snprintf() and snprintf() don't seem to be working okay.
EOM
    d_snprintf="$undef"
    d_vsnprintf="$undef"
    ;;
 esac
   else
 echo "(I can't seem to compile the test program--assuming they don't)"
 d_snprintf="$undef"
 d_vsnprintf="$undef"
   fi
   $rm_try
   ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_snprintf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_su_chown.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_su_chown.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:40  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_su_chown: Csym Setvar
?MAKE: -pick add $@ %<
?S:d_su_chown (d_rootchown):
?S: This variable conditionally defines the SU_CHOWN symbol, which
?S: indicates to the C program that only root can chown() the owner
?S: of a file.
?S:.
?C:SU_CHOWN (ROOT_CHOWN):
?C: This symbol, if defined, indicates that the system allows only root
?C: can
 change the owner of a file with chown().
?C:.
?H:#$d_su_chown SU_CHOWN /**/
?H:.
?LINT:set d_su_chown
: see if 'chown()' is restricted.
: but not too hard, as it is late and I am tired. -- HMS
echo " "
if set setreuid val -f d_su_chown; eval $csym; $val; then
 echo 'It looks like only root can chown() the owner of a file.' >&4
 val="$define"
else
 echo 'It looks like root or the owner can chown() a file away.' >&4
 val="$undef"
fi
set d_su_chown
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_su_chown.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: vendorman1dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $

```
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorman1dir.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorman1dir vendorman1direxp installvendorman1dir: man1dir Getfile \
 Oldconfig Setprefixvar Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorman1dir:
?S: This variable contains the name of the directory for man1
?S: pages.  It may have a ~ on the front.
?S: The standard distribution will put nothing in this directory.
?S: Vendors
 who distribute perl may wish to place their own
?S: man1 pages in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorman1direxp:
?S: This variable is the ~name expanded version of vendorman1dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorman1dir=''
?S:installvendorman1dir:
?S: This variable is really the same as vendorman1direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorman1dir
: Set the vendorman1dir variables
case "$vendorprefix" in
'') vendorman1dir=''
 vendorman1direxp=''
 ;;
*) : determine where vendor-supplied manual pages go.
 case "$vendorman1dir" in
 '') dflt=`echo "$man1dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
 *) dflt=$vendorman1dir ;;
```

```
 esac
 case "$dflt" in
 "|' ') dflt=none ;;
 esac
 fn=nd~+
 rp='Pathname for
 the vendor-supplied manual section 1 pages?'
 . ./getfile
 vendorman1dir="$ans"
 vendorman1direxp="$ansexp"
 ;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorman1dir" = "X" && vendorman1dir=' '
prefixvar=vendorman1dir
. ./installprefix
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/vendorman1dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: ebcdic.U,v 3.0.1.3 1994/05/06 15:11:49 doughera Exp $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Original author Jarkko Hietaniemi <jhi@iki.fi>
?RCS: Merged into dist by Andy Dougherty  July 13, 1998
?RCS:
?MAKE:ebcdic: Compile Setvar cat rm_try run
?MAKE: -pick add $@ %<
?S:ebcdic:
?S: This variable conditionally defines EBCDIC if this
?S: system uses EBCDIC encoding.
?S:.
?C:EBCDIC:
?C: This symbol, if defined, indicates that this system uses
?C: EBCDIC encoding.
?C:.
?H:#$ebcdic EBCDIC  /**/
?H:.
?F:!try
?LINT:set ebcdic
: Determine if this is an EBCDIC system
echo " "
```

```
echo "Determining whether or not we are on an EBCDIC system..." >&4
$cat >try.c <<'EOM'
int main()
{
 if ('M'==0xd4) return 0;
 return 1;
}
EOM

val=$undef
set try
if eval
 $compile_ok; then
 if $run ./try; then
  echo "You seem to speak EBCDIC." >&4
  val="$define"
 else
  echo "Nope, no EBCDIC, probably ASCII or some ISO Latin. Or UTF-8." >&4
 fi
else
 echo "I'm unable to compile the test program." >&4
 echo "I'll assume ASCII or some ISO Latin. Or UTF8." >&4
fi
$rm_try
set ebcdic
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/ebcdic/ebcdic.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2017, Karl Williamson
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_mbrlen: Inlibc
?MAKE: -pick add $@ %<
?S:d_mbrlen:
?S: This variable conditionally defines the HAS_MBRLEN symbol if the
?S: mbrlen() routine is available to be used to get the length of
?S: multi-byte character strings.
?S:.
?C:HAS_MBRLEN:
```

```
?C: This symbol, if defined, indicates that the mbrlen routine is
?C: available to get the length of multi-byte character strings.
?C:.
?H:#$d_mbrlen HAS_MBRLEN /**/
?H:.
?LINT: set d_mbrlen
: see if mbrlen exists
set mbrlen d_mbrlen
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_mbrlen.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: orgname.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: orgname.U,v $
?RCS: Revision 3.0.1.1  1993/09/13  16:10:25  ram
?RCS: patch10: added support for /local/src to the search (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:orgname: sed cat Myread Loc Oldconfig
?MAKE: -pick add $@ %<
?S:orgname:
?S: This variable contains the eventual value of the ORGNAME symbol,
?S: which contains either the organizaton name or the full pathname
?S: of
 a file containing the organization name.
?S:.
?C:ORGNAME:
?C: This symbol contains either the organizaton name or the full pathname
?C: of a file containing the organization name, which the program must
?C: be prepared to open and substitute the contents of.
?C:.
?H:#define ORGNAME "$orgname"  /**/
?H:.
?T:longshots xxx
```

```
: get organization name
longshots='/local/src /usr/src/new /usr/src/local /usr/local/src'
case "$orgname" in
") if xxx=`./loc news/src/defs.h x $longshots`; then
  dflt=`$sed -n 's/^.*MYORG[  ]*"\(.*\)".*$/\1/p' $xxx`
 else
  dflt=''
 fi
 ;;
*)  dflt="$orgname";;
esac
$cat << 'EOH'

Please type the name of your organization as you want it to appear on the
Organization line of outgoing articles.  (It's nice if this also specifies
your location.  Your city name is probably sufficient if well known.)
For example:

   University of Southern North Dakota, Hoople

You may also put the name of a file, as long as it begins with a slash.
For example:

   /etc/organization

EOH
orgname=""
while
 test "X$orgname" = "X"; do
 rp='Organization:'
 . ./myread
 orgname="$ans"
done
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/orgname.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: lns.U,v 3.0.1.1 1994/06/20 07:05:52 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: lns.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  07:05:52  ram
?RCS: patch30: created by ADO
?RCS:
?X:
?X: This unit checks whether symbolic links are really supported.
?X: We can't rely on d_symlink because that may be listed in the
?X: C library but unimplemented.
?X:
?MAKE:lns: ln rm touch
?MAKE: -pick add $@ %<
?S:lns:
?S: This variable holds the name of the command to make
?S: symbolic
 links (if they are supported).  It can be used
?S: in the Makefile. It is either 'ln -s' or 'ln'
?S:.
: determine whether symbolic links are supported
echo " "
$touch blurfl
if $ln -s blurfl sym > /dev/null 2>&1 ; then
 echo "Symbolic links are supported." >&4
 lns="$ln -s"
else
 echo "Symbolic links are NOT supported." >&4
 lns="$ln"
fi
$rm -f blurfl sym
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/lns.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:usemultiplicity: useithreads Myread Oldconfig Setvar
?MAKE: -pick add $@ %<
?Y:TOP
?S:usemultiplicity:
```

```
?S: This variable conditionally defines the MULTIPLICITY symbol,
?S: and indicates that Perl should be built to use multiplicity.
?S:.
?C:MULTIPLICITY:
?C: This symbol, if defined, indicates that Perl should
?C: be built to use multiplicity.
?C:.
?H:?%<:#ifndef MULTIPLICITY
?H:?%<:#$usemultiplicity MULTIPLICITY  /**/
?H:?%<:#endif
?H:.
?LINT:set usemultiplicity
?INIT:: set usemultiplicity on the Configure command line to enable multiplicity.
: Check if multiplicity is required
?X: We should really have some explanatory text here, and some
?X: automatic setting of sensible defaults.
cat <<EOM

Perl
 can be built so that multiple Perl interpreters can coexist
within the same Perl executable.
EOM

case "$useithreads" in
$define)
 cat <<EOM
This multiple interpreter support is required for interpreter-based threads.
EOM
 val="$define"
 ;;
*) case "$usemultiplicity" in
 $define|true|[yY]*) dflt='y';;
 *) dflt='n';;
 esac
 echo " "
 echo "If this doesn't make any sense to you, just accept the default '$dflt'."
 rp='Build Perl for multiplicity?'
 . ./myread
 case "$ans" in
 y|Y) val="$define" ;;
 *)      val="$undef" ;;
 esac
 ;;
esac
set usemultiplicity
eval $setvar

Found in path(s):
```

* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/usemultiplicity.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysstatvfs.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysstatvfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysstatvfs:
?S: This variable conditionally defines the I_SYSSTATVFS symbol,
?S: and indicates whether a C program should include <sys/statvfs.h>.
?S:.
?C:I_SYS_STATVFS:
?C: This symbol, if defined, indicates that <sys/statvfs.h> exists and
?C: should be included.
?C:.
?H:#$i_sysstatvfs I_SYS_STATVFS  /**/
?H:.
?LINT:set i_sysstatvfs
: see if this is a sys/statvfs.h system
set sys/statvfs.h i_sysstatvfs
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysstatvfs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getprotobyname_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getprotobyname_r getprotobyname_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getprotobyname_r:
?S: This variable conditionally defines the HAS_GETPROTOBYNAME_R symbol,
?S: which indicates to the C program that the getprotobyname_r()
?S: routine is available.
```

```
?S:.
?S:getprotobyname_r_proto:
?S: This variable encodes the prototype of getprotobyname_r.
?S: It is zero if d_getprotobyname_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getprotobyname_r
?S: is defined.
?S:.
?C:HAS_GETPROTOBYNAME_R:
?C: This symbol, if
 defined, indicates that the getprotobyname_r routine
?C: is available to getprotobyname re-entrantly.
?C:.
?C:GETPROTOBYNAME_R_PROTO:
?C: This symbol encodes the prototype of getprotobyname_r.
?C: It is zero if d_getprotobyname_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getprotobyname_r
?C: is defined.
?C:.
?H:#$d_getprotobyname_r HAS_GETPROTOBYNAME_R /**/
?H:#define GETPROTOBYNAME_R_PROTO $getprotobyname_r_proto /**/
?H:.
?T:try hdrs d_getprotobyname_r_proto
: see if getprotobyname_r exists
set getprotobyname_r d_getprotobyname_r
eval $inlibc
case "$d_getprotobyname_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getprotobyname_r_proto:$usethreads" in
 ":define") d_getprotobyname_r_proto=define
  set d_getprotobyname_r_proto getprotobyname_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getprotobyname_r_proto" in
 define)
 case "$getprotobyname_r_proto" in
 "|0) try='int getprotobyname_r(const char*, struct
 protoent*, char*, size_t, struct protoent**);'
 ./protochk "$extern_C $try" $hdrs && getprotobyname_r_proto=I_CSBWR ;;
 esac
 case "$getprotobyname_r_proto" in
 "|0) try='struct protoent* getprotobyname_r(const char*, struct protoent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getprotobyname_r_proto=S_CSBI ;;
 esac
 case "$getprotobyname_r_proto" in
 "|0) try='int getprotobyname_r(const char*, struct protoent*, struct protoent_data*);'
 ./protochk "$extern_C $try" $hdrs && getprotobyname_r_proto=I_CSD ;;
```

```
 esac
 case "$getprotobyname_r_proto" in
 "|0) d_getprotobyname_r=undef
  getprotobyname_r_proto=0
  echo "Disabling getprotobyname_r, cannot determine prototype." >&4 ;;
 * ) case "$getprotobyname_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getprotobyname_r_proto="REENTRANT_PROTO_$getprotobyname_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getprotobyname_r has no prototype, not using it." >&4 ;;
  esac
  d_getprotobyname_r=undef
  getprotobyname_r_proto=0
  ;;
 esac
 ;;
*) getprotobyname_r_proto=0
 ;;
esac
```

Found
 in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getprotobyname_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Head.U 6 2006-08-25 22:21:46Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Head.U,v $
?RCS: Revision 3.0.1.9  1997/02/28  15:02:09  ram
?RCS: patch61: make sure we unset CDPATH for shells that support this
?RCS: patch61: improved Korn shell detection and handling
?RCS:
?RCS: Revision 3.0.1.8  1995/07/25  13:40:02  ram
?RCS: patch56: added SVR4-ish /opt directories to path list (ADO)
?RCS: patch56: OS/2 platforms are using another path separator
```

```
?RCS:
?RCS: Revision 3.0.1.7  1995/03/21  08:46:15  ram
?RCS: patch52: definition of
 paths wrongly added spurious ':' chars
?RCS:
?RCS: Revision 3.0.1.6  1994/10/29  15:54:19  ram
?RCS: patch36: make sure ENV is unset before calling /bin/ksh
?RCS:
?RCS: Revision 3.0.1.5  1994/08/29  16:03:44  ram
?RCS: patch32: now sets PATH only using existing directories
?RCS:
?RCS: Revision 3.0.1.4  1994/06/20  06:54:28  ram
?RCS: patch30: now computes its invocation name into 'me'
?RCS: patch30: symbol me is made visible to all units read-only
?RCS:
?RCS: Revision 3.0.1.3  1993/12/15  08:15:07  ram
?RCS: patch15: added /sbin:/usr/sbin:/usr/libexec in PATH for BSD/386
?RCS:
?RCS: Revision 3.0.1.2  1993/11/10  17:32:35  ram
?RCS: patch14: ensure PATH is reset to '.' before testing for alias
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:38:07  ram
?RCS: patch7: not all 'test' programs support the -x option
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This is the very first unit in the Configure script.  It is mostly just
?X:
 things to keep people from getting into a tizzy right off the bat.
?X:
?MAKE:Head:
?MAKE: -pick wipe $@ %<
?V:PATH p_ _exe me newsh
?T:argv p paths OS2_SHELL DJGPP
?T:inksh needksh avoidksh newsh changesh reason
?F:!*
?LINT:extern ENV CDPATH SHELL MACHTYPE _exe is_os2
?LINT:change ENV CDPATH is_os2
?LINT:nocomment
#! /bin/sh
#
# If these # comments don't work, trim them. Don't worry about any other
# shell scripts, Configure will trim # comments from them for you.
#
# (If you are trying to port this package to a machine without sh,
# I would suggest you have a look at the prototypical config_h.SH file
```

```
# and edit it to reflect your system. Some packages may include samples
# of config.h for certain machines, so you might look for one of those.)
#
?X:
?X: NOTE THAT A CONFIGURE SCRIPT IS IN THE PUBLIC DOMAIN (whether or not
?X: the software which uses it is in the public domain).
?X:
# Yes, you may rip this off to use in other distribution packages. This
# script belongs to the public
 domain and cannot be copyrighted.
#
?X:
?X: WE ASK YOU NOT TO REMOVE OR ALTER THE FOLLOWING PARAGRAPH, PLEASE:
?X:
# Note: this Configure script was generated automatically by the tool
# called "metaconfig". Rather than working with this copy of Configure,
# you should use metaconfig. Perl uses a modified version of this
# tool, and this, together with the metaconfig units, are available
# in the git repository:
#    $ git clone https://github.com/Perl/metaconfig metaconfig
# The original dist package (including metaconfig) is available on github:
#    $ git clone https://github.com/rmanfredi/dist.git dist-git
#
?X: OK, I'll not alter, but I'll add to it then ...
# Though this script was generated by metaconfig from metaunits, it is
# OK to send patches against Configure itself (but not to commit them
# to blead). It's up to
# the Configure maintainers to backport the patch to the metaunits if it
# is accepted. Exceptions to this rule, and more information, is in
# Porting/pumpkin.pod.
?X:
?X:
 NOTA BENE:
?X: If you develop you own version of metaconfig based on this work,
?X: you have to add some comments telling that the script was generated
?X: by your version, not mine: It credits your work.
?X:

# Generated using [metaconfig <VERSION> PL<PATCHLEVEL>]
# with additional metaconfig patches from https://github.com/Perl/metaconfig

cat >c1$$ <<EOF
ARGGGHHHH!!!!!

SCO csh still thinks true is false.  Write to SCO today and tell them that next
year Configure ought to "rm /bin/csh" unless they fix their blasted shell. :-)

(Actually, Configure ought to just patch csh in place.  Hmm.  Hmmmmm.  All
```

```
we'd have to do is go in and swap the && and || tokens, wherever they are.)

[End of diatribe. We now return you to your regularly scheduled programming...]
EOF
cat >c2$$ <<EOF

OOPS!  You naughty creature!  You didn't run Configure with sh!
I will attempt to remedy the situation by running sh for you...
EOF

true || cat c1$$ c2$$
true || exec sh $0 $argv:q

(exit $?0) || cat
 c2$$
(exit $?0) || exec sh $0 $argv:q
rm -f c1$$ c2$$

if test -f /dev/cputype -a -f /dev/drivers -a -f /dev/osversion; then
 cat <<EOF
***
*** I'm sorry but this system looks like Plan 9 and Plan 9 doesn't do
*** Configure that well.  (Plan 9 is close to UNIX but not close enough.)
*** Please read the README.plan9 for further instructions.
*** Cannot continue, aborting.
***
EOF
 exit 1
fi

if test -f /sys/utilities/MultiView ; then
 # AmigaOS, test -c for /dev/null is not useful
 :
elif test ! -c /dev/null ; then
 cat <<EOF
***
*** I'm sorry, but /dev/null appears to be a file rather than a device.
*** Please consult your operating sytem's notes for making a device
*** in /dev.
*** Cannot continue, aborting.
***
EOF
 exit 1
fi

: compute my invocation name
me=$0
case "$0" in
```

```
*/*)
 me=`echo $0 | sed -e 's!.*/\(.*\)!\1!' 2>/dev/null`
 test "$me" || me=$0
 ;;
esac

?X:
?X: To be able to run under OS/2, we must detect that early enough to use
?X: the proper path separator, stored in $p_.
 It is : on UNIX and ; on
?X: DOS-ish systems such as OS/2.
?X:
: Proper separator for the PATH environment variable
p_=:
: On OS/2 this directory should exist if this is not floppy only system ":-]"
if test -d c:/. || ( uname -a | grep -i 'os\(/\|\)2' 2>&1 ) 2>&1 >/dev/null ; then
 if test -n "$OS2_SHELL"; then
  p_=\;
  PATH=`cmd /c "echo %PATH%" | tr '\\\\' / `
?X: That's a bug in ksh5.22
  OS2_SHELL=`cmd /c "echo %OS2_SHELL%" | tr '\\\\' / | tr '[A-Z]' '[a-z]'`
  is_os2=yes
 elif test -n "$DJGPP"; then
  case "X${MACHTYPE:-nonesuchmach}" in
  *cygwin|*msys) ;;
  *) p_=\; ;;
  esac
 fi
fi

?X:
?X: There are two schools of thoughts here. Some people correctly argue that
?X: the user has a better chance than we do of setting a reasonable PATH and
?X: others argue that Configure is the best place there is to set up a suitable
?X: PATH. Well, here we try to compromise by keeping the user's PATH and
?X: appending some directories which are known to work on some machine or the
?X: other.
 The rationale behind this being that a novice user might not have a
?X: proper environment variable set, and some directories like /etc (where
?X: chown is located on some BSD systems) may be missing--RAM.
?X:
?X: SVR4 adds an /opt directory for optional packages.  Some sites use
?X: various permutations on /opt as opposed to /usr or /usr/local.-- ADO
?X:
?X: We only add directories that are not already in the PATH of the
?X: user and the directories must exist also.
?X:
?X: 20040627, Merijn, HP-UX's ANSI compiler is in /opt/ansic/bin if present
```

```
?X:  and should be before /usr/ccs/bin, where the braindead bundled compiler
?X:  can be found. The /usr/ccs/bin compiler cannot be used to build perl.
?X:
: Proper PATH setting
paths='/bin /usr/bin /usr/local/bin /usr/ucb /usr/local /usr/lbin'
paths="$paths /opt/bin /opt/local/bin /opt/local /opt/lbin"
paths="$paths /usr/5bin /etc /usr/gnu/bin /usr/new /usr/new/bin /usr/nbin"
paths="$paths /opt/gnu/bin /opt/new /opt/new/bin /opt/nbin"
paths="$paths
 /sys5.3/bin /sys5.3/usr/bin /bsd4.3/bin /bsd4.3/usr/ucb"
paths="$paths /bsd4.3/usr/bin /usr/bsd /bsd43/bin /opt/ansic/bin /usr/ccs/bin"
paths="$paths /etc /usr/lib /usr/ucblib /lib /usr/ccs/lib"
paths="$paths /sbin /usr/sbin /usr/libexec"
paths="$paths /system/gnu_library/bin"

for p in $paths
do
 case "$p_$PATH$p_" in
 *$p_$p$p_*) ;;
 *) test -d $p && PATH=$PATH$p_$p ;;
 esac
done

PATH=.$p_$PATH
export PATH

: shall we be using ksh?
inksh=''
needksh=''
avoidksh=''
newsh=/bin/ksh
changesh=''
?X: Use (alias -x) and not (alias) since zsh and bash recognize the alias
?X: builtin but not the -x option which is typically ksh...
?X: We need to set up PATH before calling the "alias" built-in since some
?X: systems like HP-UX have a binary called /bin/alias.
if (PATH=.; alias -x) >/dev/null 2>&1; then
  inksh=true
fi
?X: On HP-UX, large Configure scripts may exercise a bug in /bin/sh, use ksh
if test -f /hp-ux -a -f /bin/ksh; then
 needksh='to avoid sh bug in "here document" expansion'
fi
?X:
 On AIX4, /bin/sh is really ksh and it causes problems, use sh
if test -d /usr/lpp -a -f /usr/bin/bsh -a -f /usr/bin/uname; then
 if test X`/usr/bin/uname -v` = X4; then
  avoidksh="to avoid AIX 4's /bin/sh"
```

```
  newsh=/usr/bin/bsh
 fi
fi
?X: On Digital UNIX, /bin/sh may start up buggy /bin/ksh, use sh
if test -f /osf_boot -a -f /usr/sbin/setld; then
 if test X`/usr/bin/uname -s` = XOSF1; then
  avoidksh="to avoid Digital UNIX' ksh"
  newsh=/bin/sh
?X: if BIN_SH is set to 'xpg4', sh will start up ksh
  unset BIN_SH
 fi
fi
?X: If we are not in ksh and need it, then feed us back to it
case "$inksh/$needksh" in
/[a-z]*)
?X: Clear ENV to avoid any ~/.kshrc that could alias cd or whatever...
?X: Don't use "unset ENV", that is not portable enough
  ENV=''
  changesh=true
  reason="$needksh"
 ;;
esac
?X: If we are in ksh and must avoid it, then feed us back to a new shell
case "$inksh/$avoidksh" in
true/[a-z]*)
 changesh=true
 reason="$avoidksh"
 ;;
esac
?X: Warn them if they use ksh on
 other systems, which are those where
?X: we don't need ksh nor want to avoid it explicitly, yet are using it.
case "$inksh/$needksh-$avoidksh-" in
true/--)
  cat <<EOM
(I see you are using the Korn shell.  Some ksh's blow up on $me,
mainly on older exotic systems.  If yours does, try the Bourne shell instead.)
EOM
 ;;
esac
case "$changesh" in
true)
 export newsh
 echo "(Feeding myself to $newsh $reason.)"
?X: Make sure they didn't say sh <Configure by checking whether $0 ends
?X: with Configure or not. If they did say sh <../../Configure, then too
?X: bad for them anyway, since we lost that path indication...
?X: Otherwise, execing $0 ensures we keep the full remote source dir
```

```
?X: indication for src.U.
 case "$0" in
 Configure|*/Configure) exec $newsh $0 "$@";;
 *) exec $newsh Configure "$@";;
 esac
 ;;
esac
?X: 2004.06.09 rac
?X: having $newsh persist as ksh here is bad news if ksh doesn't really
?X: exist. this causes us to toss away a perfectly good working test in
?X: bash in favor
 of more exotic external options. see bug 42665.
test -x "${newsh}" || unset newsh

?X: Unset CDPATH to avoid surprises when using cd under some shells
?X: Can't unset it because that's not portable to very old shells.
?X: Can't set it to '' because then bash 2.02 won't do "cd UU"  --AD  6/98.
?X: Don't want to set it to '.' because then ksh prints out the
?X: name of the directory every time you cd to it. --AD 6/98
?X: In order to inflict the least harm, change it only if it's set.
: if needed, set CDPATH to a harmless value that is not chatty
: avoid bash 2.02 problems with empty CDPATH.
case "$CDPATH" in
'') ;;
*) case "$SHELL" in
 *bash*) CDPATH='.' ;;
 *) CDPATH='' ;;
 esac
 ;;
esac

: Configure runs within the UU subdirectory
test -d UU || mkdir UU
?X: Use ./* to avoid any confirmation prompts from enhanced shells -- WED
cd UU && rm -f ./*
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Head.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
```

```
?MAKE:d_strtold: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtold:
?S: This variable conditionally defines the HAS_STRTOLD symbol, which
?S: indicates to the C program that the strtold() routine is available.
?S:.
?C:HAS_STRTOLD:
?C: This symbol, if defined, indicates that the strtold routine is
?C: available to convert strings to long doubles.
?C:.
?H:#$d_strtold HAS_STRTOLD  /**/
?H:.
?LINT:set d_strtold
: see if strtold exists
set strtold d_strtold
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strtold.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_finitel: Inlibc
?MAKE: -pick add $@ %<
?S:d_finitel:
?S: This variable conditionally defines the HAS_FINITEL symbol, which
?S: indicates to the C program that the finitel() routine is available.
?S:.
?C:HAS_FINITEL:
?C: This symbol, if defined, indicates that the finitel routine is
?C: available to check whether a long double is finite
?C: (non-infinity non-NaN).
?C:.
?H:#$d_finitel HAS_FINITEL  /**/
?H:.
?LINT:set d_finitel
: see if finitel exists
set finitel d_finitel
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_finitel.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_systwgcf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_systwgcf.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_systwgcf: Inhdr
?MAKE: -pick add $@ %<
?S:i_systwgcf:
?S: This variable conditionally defines the I_SYS_TWG_CF symbol, and
?S: indicates whether a C program should include sys/twg_config.h.
?S:.
?C:I_SYS_TWG_CF:
?C: This symbol, if defined, indicates to the C program that it should
?C: include sys/twg_config.h.
?C:.
?H:#$i_systwgcf
 I_SYS_TWG_CF /**/
?H:.
?LINT:set i_systwgcf
: see if this is a sys/twg_config.h system
set sys/twg_config.h i_systwgcf
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_systwgcf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sbrksmart.U,v 3.0.1.2 1995/01/11 15:35:41 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sbrksmart.U,v $
?RCS: Revision 3.0.1.2  1995/01/11  15:35:41  ram
?RCS: patch45: now sets sbrksmart to undef explicitly when lacking sbrk()
?RCS: patch45: forgot a cast when using return value from sbrk()
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:16:45  ram
?RCS: patch16: created
?RCS:
?MAKE:sbrksmart: cat d_sbrk Compile rm
?MAKE: -pick add $@ %<
?S:sbrksmart:
?S: This variable conditionally defines HAS_SMART_SBRK if the sbrk()
?S: routine honors a negative
 argument to lower the break value.
?S:.
?C:HAS_SMART_SBRK:
?C: This symbol is defined when the sbrk() system call may be used with
?C: a negative argument to lower the break value, therefore releasing
?C: core to the system. If not, you'd probably be better off using the
?C: mmap() system call.
?C:.
?H:#$sbrksmart HAS_SMART_SBRK /**/
?H:.
?T:dumb
?F:!sbrk
: see if sbrk can release core to the kernel
echo " "
case "$d_sbrk" in
"$define")
 echo "Let's see if your sbrk() is smart enough to release core..." >&4
 $cat > sbrk.c <<'EOC'
#define INC 256  /* Small enough to be less than a page size */

int main()
{
 char *obrk = (char *) sbrk(0);
 char *nbrk;

 nbrk = (char *) sbrk(INC);
 if (nbrk == (char *) -1)
  exit(1); /* Not enough memory */
 if (nbrk != obrk)
  exit(2); /* Unreliable sbrk() */
 nbrk = (char *) sbrk(-INC);
 if (nbrk == (char *) -1)
```

```
  exit(3); /* May have understood negative arg as huge positive */
 if (obrk != (char *) sbrk(0))
  exit(4); /* Not smart, definitely */

 exit(0);  /*
 Ok */
}
EOC
 sbrksmart="$undef"
 dumb='-- assuming dumb sbrk().'
 set sbrk
 if eval $compile_ok; then
  ./sbrk >/dev/null 2>&1
  case $? in
  0) sbrksmart="$define"
   echo "Yes, it can be used with negative values." ;;
  1) echo "Sorry, not enough memory $dumb" ;;
  2) echo "No it's not, and besides it seems to be buggy..." ;;
  3) echo "No, it fails with negative values." ;;
  4) echo "Nope, your sbrk() is too dumb." ;;
  *) echo "Err... Unexpected result $dumb" ;;
  esac
 else
  echo "(Could not compile test program $dumb)"
 fi
 ;;
*)
 echo "Since you don't have sbrk(), let's forget about the smart test!"
 sbrksmart="$undef"
 ;;
esac
$rm -f sbrk sbrk.* core
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/sbrksmart.U
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```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:longdblmantbits doublemantbits nvmantbits: Inlibc cat Compile run \
 rm_try Setvar echo i_sunmath usequadmath \
 d_longdbl longdblkind nvsize doublesize longdblsize
```

```
?MAKE: -pick add $@ %<
?S:doublemantbits:
?S: This symbol, if defined, tells how many mantissa bits
?S: there are in double precision floating point format.
?S: Note that this is usually DBL_MANT_DIG minus one, since
?S: with the standard IEEE 754 formats DBL_MANT_DIG includes
?S: the implicit bit which doesn't really exist.
?S:.
?S:longdblmantbits:
?S: This symbol, if defined, tells how many mantissa bits
?S: there are in long double precision floating point format.
?S: Note that this can be LDBL_MANT_DIG minus one,
?S: since
 LDBL_MANT_DIG can include the IEEE 754 implicit bit.
?S: The common x86-style 80-bit long double does not have
?S: an implicit bit.
?S:.
?S:nvmantbits:
?S: This variable tells how many bits the mantissa of a Perl NV has,
?S: not including the possible implicit bit.
?S:.
?C:DOUBLEMANTBITS:
?C: This symbol, if defined, tells how many mantissa bits
?C: there are in double precision floating point format.
?C: Note that this is usually DBL_MANT_DIG minus one, since
?C: with the standard IEEE 754 formats DBL_MANT_DIG includes
?C: the implicit bit, which doesn't really exist.
?C:.
?C:LONGDBLMANTBITS:
?C: This symbol, if defined, tells how many mantissa bits
?C: there are in long double precision floating point format.
?C: Note that this can be LDBL_MANT_DIG minus one,
?C: since LDBL_MANT_DIG can include the IEEE 754 implicit bit.
?C: The common x86-style 80-bit long double does not have
?C: an implicit bit.
?C:.
?C:NVMANTBITS:
?C: This symbol, if defined, tells how many mantissa bits
?C: (not
 including implicit bit) there are in a Perl NV.
?C: This depends on which floating point type was chosen.
?C:.
?H:#define DOUBLEMANTBITS  $doublemantbits
?H:#define LONGDBLMANTBITS $longdblmantbits
?H:#define NVMANTBITS      $nvmantbits
?H:.
?F:!try
: Check the length of the double mantissa
```

```
$echo "Checking how many mantissa bits your doubles have..." >&4
$cat >try.c <<EOP
#$i_sunmath I_SUNMATH
#include <float.h>
#ifdef I_SUNMATH
# include <sunmath.h>
#endif
#ifdef DBL_MANT_DIG
# define BITS (DBL_MANT_DIG - 1) /* the implicit bit does not count */
#endif
#include <stdio.h>
int main(int argc, char *argv[]) {
#ifdef BITS
 printf("%d\n", BITS);
#endif
 return 0;
}
EOP
set try
if eval $compile; then
   doublemantbits=`$run ./try`
else
   doublemantbits="$undef"
fi
$rm_try

: Check the length of the longdouble mantissa
$echo "Checking how many mantissa bits your long doubles have..." >&4
$cat >try.c <<EOP
#$i_sunmath I_SUNMATH
#include <float.h>
#ifdef I_SUNMATH
# include <sunmath.h>
#endif
#$d_longdbl
 HAS_LONG_DOUBLE
#if defined(HAS_LONG_DOUBLE) && defined(LDBL_MANT_DIG)
# if ($longdblkind == 3) || ($longdblkind == 4) /* 80-bit extended precision */
/* This format has no implicit bit.  Beware, however, that for
* this format the bare LDBL_MANT_DIG is misleading for inf/nan:
* the top three bits are used for inf (100) / qnan (11x) / snan (101),
* and the top bit must have been one since 387, zero is plain invalid.
* For normal fp values, the LDBL_MANT_DIG is fine, though. */
#  define BITS LDBL_MANT_DIG
# elif ($longdblkind == 5 || $longdblkind == 6 || $longdblkind == 7 || $longdblkind == 8) /* double double */
/* LDBL_MANT_DIG of 106 (twice 53) would be logical, but for some
* reason e.g. Irix thinks 107.  But in any case, we want only
* the number of real bits, the implicit bits are of no interest.  */
```

```
#  define BITS 2 * (DBL_MANT_DIG - 1)
# else
#  define BITS (LDBL_MANT_DIG - 1) /* the implicit bit does not count */
# endif
#endif
#include <stdio.h>
int
 main(int argc, char *argv[]) {
#ifdef BITS
 printf("%d\n", BITS);
#endif
 return 0;
}
EOP
set try
if eval $compile; then
   longdblmantbits=`$run ./try`
else
   longdblmantbits="$undef"
fi
$rm_try

: Check the length of the NV mantissa
$echo "Checking how many mantissa bits your NVs have..." >&4
if test "X$usequadmath" = "X$define"; then
 nvmantbits=112 # 128-1-15
else
 if test "X$nvsize" = "X$doublesize"; then
   nvmantbits="$doublemantbits"
 else
    if test "X$nvsize" = "X$longdblsize"; then
      nvmantbits="$longdblmantbits"
    else
      nvmantbits="$undef"
    fi
 fi
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/mantbits.U
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```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_safemcpy.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  15:41:12  ram
?RCS: patch61: improved overlapping copy check
?RCS: patch61: comfort them if they have memmove
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.4  1995/07/25  13:58:46  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.3  1995/03/21  08:47:26  ram
?RCS: patch52: swapped two first arguments of memcpy() calls
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:15:10
  ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:53:12  ram
?RCS: patch23: ensure string is not optimized in read-only memory (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_safemcpy: cat d_memcpy +cc +optimize +ccflags +libs +ldflags rm \
 d_memmove i_memory i_stdlib i_string i_unistd Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_safemcpy:
?S: This variable conditionally defines the HAS_SAFE_MEMCPY symbol if
?S: the memcpy() routine can do overlapping copies.
?S:.
?C:HAS_SAFE_MEMCPY (SAFE_MEMCPY):
?C: This symbol, if defined, indicates that the memcpy routine is available
?C: to copy potentially overlapping memory blocks. Otherwise you should
?C: probably use memmove() or memcpy(). If neither is defined, roll your
?C: own version.
?C:.
?H:#$d_safemcpy HAS_SAFE_MEMCPY /**/
?H:.
?F:!safemcpy
?LINT: set d_safemcpy
: can memcpy handle overlapping blocks?
?X:
 assume the worst
val="$undef"
```

```
case "$d_memcpy" in
"$define")
 echo " "
 echo "Checking to see if your memcpy() can do overlapping copies..." >&4
 $cat >foo.c <<EOCP
#$i_memory I_MEMORY
#$i_stdlib I_STDLIB
#$i_string I_STRING
#$i_unistd I_UNISTD
EOCP
 $cat >>foo.c <<'EOCP'
#include <stdio.h>
#ifdef I_MEMORY
#  include <memory.h>
#endif
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#ifdef I_STRING
#  include <string.h>
#else
#  include <strings.h>
#endif
#ifdef I_UNISTD
#  include <unistd.h>  /* Needed for NetBSD */
#endif
int main()
{
char buf[128], abc[128];
char *b;
int len;
int off;
int align;

/* Copy "abcde..." string to char abc[] so that gcc doesn't
  try to store the string in read-only memory. */
memcpy(abc, "abcdefghijklmnopqrstuvwxyz0123456789", 36);

for (align = 7; align >= 0; align--) {
 for (len = 36; len; len--) {
  b = buf+align;
  memcpy(b, abc, len);
  for (off = 1; off <= len; off++) {
   memcpy(b+off, b, len);
   memcpy(b, b+off, len);
   if (memcmp(b, abc, len))
    exit(1);
  }
```

```
 }
}
exit(0);
}
EOCP
 if
 $cc $optimize $ccflags $ldflags \
     -o safemcpy foo.c $libs >/dev/null 2>&1; then
  if ./safemcpy 2>/dev/null; then
   echo "Yes, it can."
   val="$define"
  else
   echo "It can't, sorry."
   case "$d_memmove" in
   "$define") echo "But that's Ok since you have memmove()." ;;
   esac
  fi
 else
  echo "(I can't compile the test program, so we'll assume not...)"
  case "$d_memmove" in
  "$define") echo "But that's Ok since you have memmove()." ;;
  esac
 fi
 ;;
esac
$rm -f foo.* safemcpy core
set d_safemcpy
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_safemcpy.U
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```
?RCS: $Id: archname.U,v 3.0.1.3 1997/02/28 15:24:32 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: archname.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:24:32  ram
?RCS: patch61: changed the way the archname is mangled from uname
?RCS:
```

```
?RCS: Revision 3.0.1.2  1995/05/12  12:05:24  ram
?RCS: patch54: protect against spaces in "uname -m" output (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1995/02/15  14:14:21  ram
?RCS: patch51: created
?RCS:
?MAKE:archname myarchname useversionedarchname: sed Loc Myread Oldconfig \
 osname test rm usethreads usemultiplicity use64bitint
 use64bitall \
 archname64 uselongdouble longdblsize doublesize targetarch Setvar \
 api_versionstring usequadmath
?MAKE: -pick add $@ %<
?S:archname:
?S: This variable is a short name to characterize the current
?S: architecture.  It is used mainly to construct the default archlib.
?S:.
?S:myarchname:
?S: This variable holds the architecture name computed by Configure in
?S: a previous run. It is not intended to be perused by any user and
?S: should never be set in a hint file.
?S:.
?S:useversionedarchname:
?S: This variable indicates whether to include the $api_versionstring
?S: as a component of the $archname.
?S:.
?C:ARCHNAME:
?C: This symbol holds a string representing the architecture name.
?C: It may be used to construct an architecture-dependant pathname
?C: where library files may be held under a private library, for
?C: instance.
?C:.
?H:#define ARCHNAME "$archname"  /**/
?H:.
?T:xxx tarch
?F:!archname.cbu
?INIT:archname="
: determine the architecture name
echo " "
?X:
 We always recompute archname in case osname changes. However, we need
?X: to be careful since, as ADO rightfully pointed out, some systems pick
?X: silly architecture names (0001307135000-aix on AIX or 9000/715-ux under
?X: HP-UX). Therefore, we allow hint files to superseed our guess and ask
?X: the user for confirmation.
if xxx=`./loc arch blurfl $pth`; $test -f "$xxx"; then
 tarch=`arch`"-$osname"
elif xxx=`./loc uname blurfl $pth`; $test -f "$xxx" ; then
 if uname -m > tmparch 2>&1 ; then
```

```
  tarch=`$sed -e 's/ *$//' -e 's/ /_/g' \
   -e 's/$/'"-$osname/" tmparch`
 else
  tarch="$osname"
 fi
 $rm -f tmparch
else
 tarch="$osname"
fi
case "$myarchname" in
"|"$tarch") ;;
*)
 echo "(Your architecture name used to be $myarchname.)"
 archname=''
 ;;
esac
case "$targetarch" in
'') ;;
?X: Very GCCian.
*)  archname=`echo $targetarch|sed 's,^[^-]*-,,'` ;;
esac
myarchname="$tarch"
case "$archname" in
'') dflt="$tarch";;
*) dflt="$archname";;
esac
rp='What is your architecture name'
. ./myread
archname="$ans"

:
 optionally add API version to the architecture for versioned archlibs
case "$useversionedarchname" in
$define|true|[yY]*) dflt='y';;
*)                  dflt='n';;
esac
rp='Add the Perl API version to your archname?'
. ./myread
case "$ans" in
y|Y) useversionedarchname="$define" ;;
*)      useversionedarchname="$undef" ;;
esac
case "$useversionedarchname" in
$define)
 case "$archname" in
 *-$api_versionstring)
  echo "...and architecture name already has -$api_versionstring" >&4
  ;;
```

```
 *)
  archname="$archname-$api_versionstring"
  echo "...setting architecture name to $archname." >&4
  ;;
 esac
 ;;
esac

@if usethreads
case "$usethreads" in
$define)
 echo "Threads selected." >&4
 case "$archname" in
 *-thread*) echo "...and architecture name already has -thread." >&4
  ;;
 *)      archname="$archname-thread"
  echo "...setting architecture name to $archname." >&4
  ;;
 esac
 ;;
esac
@end
@if usemultiplicity
case "$usemultiplicity" in
$define)
 echo "Multiplicity selected."
 >&4
 case "$archname" in
 *-multi*) echo "...and architecture name already has -multi." >&4
  ;;
 *)      archname="$archname-multi"
  echo "...setting architecture name to $archname." >&4
  ;;
 esac
 ;;
esac
@end
@if use64bitint
case "$use64bitint$use64bitall" in
*"$define"*)
 case "$archname64" in
 ")
  echo "This architecture is naturally 64-bit, not changing architecture name." >&4
  ;;
 *)
  case "$use64bitint" in
  "$define") echo "64 bit integers selected." >&4 ;;
  esac
```

```
  case "$use64bitall" in
  "$define") echo "Maximal 64 bitness selected." >&4 ;;
  esac
  case "$archname" in
  *-$archname64*) echo "...and architecture name already has $archname64." >&4
   ;;
  *)      archname="$archname-$archname64"
   echo "...setting architecture name to $archname." >&4
   ;;
  esac
  ;;
 esac
esac
@end
@if uselongdouble
case "$uselongdouble" in
$define)
 echo "Long doubles selected." >&4
 case "$longdblsize" in
 $doublesize)
  echo "...but long doubles are equal to doubles, not
 changing architecture name." >&4
  ;;
 *)
  case "$archname" in
  *-ld*) echo "...and architecture name already has -ld." >&4
   ;;
  *)      archname="$archname-ld"
   echo "...setting architecture name to $archname." >&4
   ;;
  esac
  ;;
 esac
 ;;
esac
@end
@if usequadmath
case "$usequadmath" in
$define)
 echo "quadmath selected." >&4
 case "$archname" in
 *-quadmath*) echo "...and architecture name already has -quadmath." >&4
  ;;
 *)      archname="$archname-quadmath"
  echo "...setting architecture name to $archname." >&4
  ;;
 esac
 ;;
```

```
esac
@end
if $test -f archname.cbu; then
 echo "Your platform has some specific hints for architecture name, using them..."
 . ./archname.cbu
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/archname.U
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```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_socks5_init: Inlibc
?MAKE: -pick add $@ %<
?S:d_socks5_init:
?S: This variable conditionally defines the HAS_SOCKS5_INIT symbol, which
?S: indicates to the C program that the socks5_init() routine is available.
?S:.
?C:HAS_SOCKS5_INIT:
?C: This symbol, if defined, indicates that the socks5_init routine is
?C: available to initialize SOCKS 5.
?C:.
?H:#$d_socks5_init HAS_SOCKS5_INIT  /**/
?H:.
?LINT:set d_socks5_init
: see if socks5_init exists
set socks5_init d_socks5_init
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_socks5_init.U
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```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:ptrsize: cat rm_try Myread +cc +ccflags
?MAKE: -pick add $@ %<
?S:ptrsize:
?S: This variable contains the value of the PTRSIZE symbol, which
?S: indicates to the C program how many bytes there are in a pointer.
?S:.
?C:PTRSIZE:
?C: This symbol contains the size of a pointer, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define PTRSIZE $ptrsize  /**/
?H:.
?F:!try
: check for length of pointer
echo " "
case "$ptrsize" in
")
 echo "Checking to see how big your pointers are..."
 >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
 printf("%d\n", sizeof(char *));
}
EOCP
 if $cc $ccflags -o try try.c >/dev/null 2>&1 ; then
  dflt=`./try`
 else
  dflt='4'
  echo "(I can't seem to compile the test program.  Guessing...)"
 fi
 ;;
*)
 dflt="$ptrsize"
 ;;
esac
rp="What is the size of a pointer (in bytes)?"
. ./myread
ptrsize="$ans"
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/ptrsize.U

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```
?RCS: $Id: perlpath.U,v 3.0.1.2 1995/09/25 09:17:04 ram Exp $
?RCS:
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?RCS:
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?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: perlpath.U,v $
?RCS:
?RCS: Special perl5 unit -- we haven't installed perl yet.
?RCS:
?RCS: Revision 3.0.1.2  1995/09/25  09:17:04  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:33:53  ram
?RCS: patch45: can now use Loc variables since path stripping is deferred
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:32  ram
?RCS: Baseline for dist
 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this unit is to locate perl good enough to construct a #!
?X:
?MAKE:perlpath: cat Getfile Loc Myread Oldconfig initialinstalllocation \
 startperl version versiononly
?MAKE: -pick add $@ %<
?Y:TOP
?S:perlpath:
?S: This variable contains the eventual value of the PERLPATH symbol,
?S: which contains the name of the perl interpreter to be used in
?S: shell scripts and in the "eval 'exec'" idiom.  This variable is
?S: not necessarily the pathname of the file containing the perl
?S: interpreter; you must append the executable extension (_exe) if
?S: it is not already present.  Note that Perl code that runs during
?S: the Perl build process cannot reference this variable, as Perl
?S: may not have been installed, or even if installed, may be a
?S: different version of Perl.
?S:.
?C:PERLPATH:
?C: This symbol contains the name of the perl interpreter to be
?C: used in shell scripts and in the "eval 'exec'" idiom.
```

```
?C:.
?H:#define PERLPATH "$perlpath"  /**/
?H:.
:
 figure best path for perl in scripts
case "$perlpath" in
")
 case "$versionony" in
 "$define") perlpath="$initialinstalllocation/perl$version";;
 *)  perlpath="$initialinstalllocation/perl";;
 esac
 case "$startperl" in
 *!*) ;;
 *)
  $cat <<EOH

I will use the "eval 'exec'" idiom to start Perl on your system.
I can use the full path of your Perl binary for this purpose, but
doing so may cause problems if you want to share those scripts and
Perl is not always in a standard place ($initialinstalllocation/perl).

EOH
  dflt="$initialinstalllocation/perl"
  rp="What path shall I use in \"eval 'exec'\"?"
  . ./myread
  perlpath="$ans"
  ;;
 esac
 ;;
esac
case "$startperl" in
*!*) ;;
*) echo "I'll use $perlpath in \"eval 'exec'\"" ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/perlpath.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X: This unit generates a $hasstruct string that is used internally
```

```
?X: by Configure to check if this system has a field for a
?X: particular struct (of if this system has a particular struct!)
?X:
?X: To use it, say something like:
?X:  set d_statblocks stat i_sysstat sys/stat.h
?X:  eval $hasstruct
?X: Or, for more complicated sets of headers, do something like
?X: hdrs="$define sys/foo.h
?X:  $i_sysbar sys/bar.h
?X:  $i_syszot sys/zot.h
?X:  $i_zappa zappa.h"
?X: set d_statblocks stat $hdrs
?X: eval $hasstruct
?X:
?MAKE:Hasstruct: Setvar rm_try test Compile
?MAKE: -pick add $@ %<
?T:varname struct
?V:hasstruct
: Define hasstruct macro for Configure internal use
hasstruct='varname=$1; struct=$2; shift;
 shift;
while $test $# -ge 2; do
 case "$1" in
 $define) echo "#include <$2>";;
 esac ;
   shift 2;
done > try.c;
echo "int main () { struct $struct foo; }" >> try.c;
set try;
if eval $compile; then
 val="$define";
else
 val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try'
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/Hasstruct.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_srand48_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_srand48_r srand48_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_stdlib extern_C
?MAKE: -pick add $@ %<
?S:d_srand48_r:
?S: This variable conditionally defines the HAS_SRAND48_R symbol,
?S: which indicates to the C program that the srand48_r()
?S: routine is available.
?S:.
?S:srand48_r_proto:
?S: This variable encodes the prototype of srand48_r.
?S: It is zero if d_srand48_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_srand48_r
?S: is defined.
?S:.
?C:HAS_SRAND48_R:
?C: This symbol, if defined, indicates that the srand48_r routine
?C: is available to srand48 re-entrantly.
?C:.
?C:SRAND48_R_PROTO:
?C: This
 symbol encodes the prototype of srand48_r.
?C: It is zero if d_srand48_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_srand48_r
?C: is defined.
?C:.
?H:#$d_srand48_r HAS_SRAND48_R /**/
?H:#define SRAND48_R_PROTO $srand48_r_proto /**/
?H:.
?T:try hdrs d_srand48_r_proto
: see if srand48_r exists
set srand48_r d_srand48_r
eval $inlibc
case "$d_srand48_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_stdlib stdlib.h"
 case "$d_srand48_r_proto:$usethreads" in
 ":define") d_srand48_r_proto=define
  set d_srand48_r_proto srand48_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_srand48_r_proto" in
 define)
 case "$srand48_r_proto" in
 "|0) try='int srand48_r(long, struct drand48_data*);'
```

```
 ./protochk "$extern_C $try" $hdrs && srand48_r_proto=I_LS ;;
 esac
 case "$srand48_r_proto" in
 "|0) d_srand48_r=undef
  srand48_r_proto=0
  echo "Disabling srand48_r, cannot determine prototype." >&4 ;;
 * ) case
 "$srand48_r_proto" in
  REENTRANT_PROTO*) ;;
  *) srand48_r_proto="REENTRANT_PROTO_$srand48_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "srand48_r has no prototype, not using it." >&4 ;;
  esac
  d_srand48_r=undef
  srand48_r_proto=0
  ;;
 esac
 ;;
*) srand48_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_srand48_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_db.U,v 3.0.1.3 1995/07/25 14:10:22 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_db.U,v $
?RCS: Revision 3.0.1.3  1995/07/25  14:10:22  ram
?RCS: patch56: conditionally use const in test programs (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1995/05/12  12:14:42  ram
```

```
?RCS: patch54: extended for more intimate DB probing (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:21:50  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:i_db db_hashtype db_prefixtype \
 db_version_major
 db_version_minor db_version_patch : \
 Inhdr +cc +ccflags rm_try compiler_warning cat \
 Compile libs sed run i_stdlib
?MAKE: -pick add $@ %<
?S:i_db:
?S: This variable conditionally defines the I_DB symbol, and indicates
?S: whether a C program may include Berkeley's DB include file <db.h>.
?S:.
?S:db_hashtype:
?S: This variable contains the type of the hash structure element
?S: in the <db.h> header file.  In older versions of DB, it was
?S: int, while in newer ones it is u_int32_t.
?S:.
?S:db_prefixtype:
?S: This variable contains the type of the prefix structure element
?S: in the <db.h> header file.  In older versions of DB, it was
?S: int, while in newer ones it is size_t.
?S:.
?S:db_version_major:
?S: This variable contains the major version number of
?S: Berkeley DB found in the <db.h> header file.
?S:.
?S:db_version_minor:
?S: This variable contains the minor version number of
?S: Berkeley DB found in the <db.h> header file.
?S: For DB version 1 this is always 0.
?S:.
?S:db_version_patch:
?S: This
 variable contains the patch version number of
?S: Berkeley DB found in the <db.h> header file.
?S: For DB version 1 this is always 0.
?S:.
?C:I_DB:
?C: This symbol, if defined, indicates to the C program that it should
?C: include Berkeley's DB include file <db.h>.
?C:.
?C:DB_Prefix_t:
?C: This symbol contains the type of the prefix structure element
?C: in the <db.h> header file.  In older versions of DB, it was
?C: int, while in newer ones it is u_int32_t.
```

```
?C:.
?C:DB_Hash_t:
?C: This symbol contains the type of the prefix structure element
?C: in the <db.h> header file.  In older versions of DB, it was
?C: int, while in newer ones it is size_t.
?C:.
?C:DB_VERSION_MAJOR_CFG:
?C: This symbol, if defined, defines the major version number of
?C: Berkeley DB found in the <db.h> header when Perl was configured.
?C:.
?C:DB_VERSION_MINOR_CFG:
?C: This symbol, if defined, defines the minor version number of
?C: Berkeley DB found in the <db.h> header when Perl was configured.
?C: For
 DB version 1 this is always 0.
?C:.
?C:DB_VERSION_PATCH_CFG:
?C: This symbol, if defined, defines the patch version number of
?C: Berkeley DB found in the <db.h> header when Perl was configured.
?C: For DB version 1 this is always 0.
?C:.
?H:#$i_db I_DB  /**/
?H:#define DB_Hash_t $db_hashtype  /**/
?H:#define DB_Prefix_t $db_prefixtype  /**/
?H:#define DB_VERSION_MAJOR_CFG $db_version_major /**/
?H:#define DB_VERSION_MINOR_CFG $db_version_minor /**/
?H:#define DB_VERSION_PATCH_CFG $db_version_patch /**/
?H:.
?F:!try
?LINT:change libs
: see if this is a db.h system
set db.h i_db
eval $inhdr

case "$i_db" in
$define)
 : Check db version.
 echo " "
 echo "Checking Berkeley DB version ..." >&4
 $cat >try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <db.h>
int main(int argc, char *argv[])
```

```
{
#ifdef DB_VERSION_MAJOR /* DB version >= 2 */
  int Major, Minor, Patch ;
  unsigned long Version ;
  (void)db_version(&Major,
 &Minor, &Patch) ;
  if (argc == 2) {
      printf("%d %d %d %d %d %d\n",
            DB_VERSION_MAJOR, DB_VERSION_MINOR, DB_VERSION_PATCH,
            Major, Minor, Patch);
      exit(0);
  }
  printf("You have Berkeley DB Version 2 or greater.\n");

  printf("db.h is from Berkeley DB Version %d.%d.%d\n",
 DB_VERSION_MAJOR, DB_VERSION_MINOR, DB_VERSION_PATCH);
  printf("libdb is from Berkeley DB Version %d.%d.%d\n",
 Major, Minor, Patch) ;

  /* check that db.h & libdb are compatible */
  if (DB_VERSION_MAJOR != Major || DB_VERSION_MINOR != Minor || DB_VERSION_PATCH != Patch) {
 printf("db.h and libdb are incompatible.\n") ;
      exit(3);
  }

  printf("db.h and libdb are compatible.\n") ;

  Version = DB_VERSION_MAJOR * 1000000 + DB_VERSION_MINOR * 1000
 + DB_VERSION_PATCH ;

  /* needs to be >= 2.3.4 */
  if (Version < 2003004) {
  /* if (DB_VERSION_MAJOR == 2 && DB_VERSION_MINOR == 0 && DB_VERSION_PATCH < 5) { */
 printf("Perl
 needs Berkeley DB 2.3.4 or greater.\n") ;
      exit(2);
  }

  exit(0);
#else
#if defined(_DB_H_) && defined(BTREEMAGIC) && defined(HASHMAGIC)
  if (argc == 2) {
      printf("1 0 0\n");
      exit(0);
  }
  printf("You have Berkeley DB Version 1.\n");
  exit(0); /* DB version < 2: the coast is clear. */
#else
```

```
   exit(1); /* <db.h> not Berkeley DB? */
#endif
#endif
}
EOCP
 set try
 if eval $compile_ok && $run ./try; then
  echo 'Looks OK.' >&4
  set `$run ./try 1`
  db_version_major=$1
  db_version_minor=$2
  db_version_patch=$3
 else
  echo "I can't use Berkeley DB with your <db.h>.  I'll disable Berkeley DB." >&4
  i_db=$undef
  case " $libs " in
  *"-ldb "*)
   : Remove db from list of libraries to use
   echo "Removing unusable -ldb from library list" >&4
   set `echo X $libs | $sed -e 's/-ldb / /' -e 's/-ldb$//'`
   shift
   libs="$*"
   echo "libs = $libs" >&4
   ;;
  esac
 fi
 $rm_try
 ;;
esac

@if DB_Hash_t
case "$i_db" in
define)
 : Check the return
 type needed for hash
 echo " "
 echo "Checking return type needed for hash for Berkeley DB ..." >&4
 $cat >try.c <<EOCP
#include <sys/types.h>
#include <db.h>

#ifndef DB_VERSION_MAJOR
u_int32_t hash_cb (const void* ptr, size_t size)
{
 return 0;
}
HASHINFO info;
int main()
```

```
{
 info.hash = hash_cb;
}
#endif
EOCP
 if $cc $ccflags -c try.c >try.out 2>&1 ; then
  if $compiler_warning try.out >>/dev/null 2>&1 ; then
   db_hashtype='int'
  else
   db_hashtype='u_int32_t'
  fi
 else
  : XXX Maybe we should just give up here.
  db_hashtype=u_int32_t
  $cat try.out >&4
  echo "Help:  I can't seem to compile the db test program." >&4
  echo "Something's wrong, but I'll assume you use $db_hashtype." >&4
 fi
 $rm_try
 echo "Your version of Berkeley DB uses $db_hashtype for hash."
 ;;
*) db_hashtype=u_int32_t
 ;;
esac
@end
@if DB_Prefix_t
case "$i_db" in
define)
 : Check the return type needed for prefix
 echo " "
 echo "Checking return type needed for prefix for Berkeley DB ..." >&4
 cat >try.c <<EOCP
#include
 <sys/types.h>
#include <db.h>

#ifndef DB_VERSION_MAJOR
size_t prefix_cb (const DBT *key1, const DBT *key2)
{
 return 0;
}
BTREEINFO info;
int main()
{
 info.prefix = prefix_cb;
}
#endif
EOCP
```

```
 if $cc $ccflags -c try.c  >try.out 2>&1 ; then
  if $compiler_warning try.out >>/dev/null 2>&1 ; then
   db_prefixtype='int'
  else
   db_prefixtype='size_t'
  fi
 else
  db_prefixtype='size_t'
  : XXX Maybe we should just give up here.
  $cat try.out >&4
  echo "Help:  I can't seem to compile the db test program." >&4
  echo "Something's wrong, but I'll assume you use $db_prefixtype." >&4
 fi
 $rm_try
 echo "Your version of Berkeley DB uses $db_prefixtype for prefix."
 ;;
*) db_prefixtype='size_t'
 ;;
esac
@end
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_db.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_values.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_values.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:48:34  ram
?RCS: patch61: created
?RCS:
?MAKE:i_values: Inhdr
?MAKE: -pick add $@ %<
?S:i_values:
?S: This variable conditionally defines the I_VALUES symbol, and indicates
?S: whether a C program may include <values.h> to get symbols like MAXLONG
?S: and friends.
?S:.
```

```
?C:I_VALUES:
?C: This symbol, if defined, indicates to the C program that it should
?C: include
 <values.h> to get definition of symbols like MINFLOAT or
?C: MAXLONG, i.e. machine dependant limitations.  Probably, you
?C: should use <limits.h> instead, if it is available.
?C:.
?H:#$i_values I_VALUES  /**/
?H:.
?LINT:set i_values
: see if this is a values.h system
set values.h i_values
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_values.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ftime.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_ftime.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:06  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_ftime d_gettimeod: Inlibc Setvar
?MAKE: -pick add $@ %<
?S:d_ftime:
?S: This variable conditionally defines the HAS_FTIME symbol, which indicates
?S: that the ftime() routine exists.  The ftime() routine is basically
?S: a sub-second accuracy clock.
?S:.
?S:d_gettimeod:
?S: This variable conditionally defines the HAS_GETTIMEOFDAY symbol,
 which
?S: indicates that the gettimeofday() system call exists (to obtain a
?S: sub-second accuracy clock). You should probably include <sys/resource.h>.
?S:.
?C:HAS_FTIME (FTIMER):
?C: This symbol, if defined, indicates that the ftime() routine exists.
```

```
?C: It is basically a sub-second accuracy clock, but is less accurate
?C: than gettimeofday(2) anyway. The type "Timeval" should be used to
?C: refer to "struct timeb".
?C:.
?C:HAS_GETTIMEOFDAY (GETTIMEOFDAY):
?C: This symbol, if defined, indicates that the gettimeofday() system
?C: call is available for a sub-second accuracy clock. Usually, the file
?C: <sys/resource.h> needs to be included (see I_SYS_RESOURCE).
?C: The type "Timeval" should be used to refer to "struct timeval".
?C:.
?H:#$d_ftime HAS_FTIME  /**/
?H:#$d_gettimeod HAS_GETTIMEOFDAY /**/
?H:?%<:@if HAS_FTIME
?H:?%<:#ifdef HAS_FTIME
?H:?%<:#define Timeval struct timeb  /* Structure used by ftime() */
?H:?%<:#endif
?H:?%<:@end
?H:?%<:@if HAS_GETTIMEOFDAY
?H:?%<:#ifdef HAS_GETTIMEOFDAY
?H:?%<:#define
 Timeval struct timeval /* Structure used by gettimeofday() */
?H:?%<:#endif
?H:?%<:@end
?H:.
?X:FIXME
?X:?I:?d_ftime:i_systimeb
?X:?I:?d_gettimeod:i_sysresrc
?LINT:set d_gettimeod d_ftime
?LINT:known Timeval
: see if gettimeofday or ftime exists
?X:
?X: Give priority to gettimeofday(2) because timing is more accurate
?X:
set gettimeofday d_gettimeod
eval $inlibc
case "$d_gettimeod" in
"$undef")
 set ftime d_ftime
 eval $inlibc
 ;;
*)
 val="$undef"; set d_ftime; eval $setvar
 ;;
esac
case "$d_gettimeod$d_ftime" in
"$undef$undef")
 echo " "
 echo 'No ftime() nor gettimeofday() -- timing may be less accurate.' >&4
```

```
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_ftime.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: ssizetype.U,v 3.0.1.3 1997/02/28 16:24:21 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: ssizetype.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:24:21  ram
?RCS: patch61: integrated perl5 concerns for mis-configured sfio
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:30:28  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:33:06  ram
?RCS: patch32: created
 by ADO
?RCS:
?MAKE:ssizetype: Myread Typedef sizetype cat rm_try Compile run i_stdlib
?MAKE: -pick add $@ %<
?S:ssizetype:
?S: This variable defines ssizetype to be something like ssize_t,
?S: long or int.  It is used by functions that return a count
?S: of bytes or an error condition.  It must be a signed type.
?S: We will pick a type such that sizeof(SSize_t) == sizeof(Size_t).
?S:.
?C:SSize_t:
?C: This symbol holds the type used by functions that return
?C: a count of bytes or an error condition.  It must be a signed type.
?C: It is usually ssize_t, but may be long or int, etc.
?C: It may be necessary to include <sys/types.h> or <unistd.h>
?C: to get any typedef'ed information.
?C: We will pick a type such that sizeof(SSize_t) == sizeof(Size_t).
?C:.
```

```
?H:#define SSize_t $ssizetype /* signed count of bytes */
?H:.
?F:!try
: see what type is used for signed size_t
set ssize_t ssizetype int stdio.h sys/types.h
eval $typedef
dflt="$ssizetype"
?X: Now check out whether sizeof(SSize_t)
 == sizeof(Size_t)
$cat > try.c <<EOM
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <sys/types.h>
#define Size_t $sizetype
#define SSize_t $dflt
int main()
{
 if (sizeof(Size_t) == sizeof(SSize_t))
  printf("$dflt\n");
 else if (sizeof(Size_t) == sizeof(int))
  printf("int\n");
 else
  printf("long\n");
 exit(0);
}
EOM
echo " "
set try
if eval $compile_ok && $run ./try > /dev/null; then
 ssizetype=`$run ./try`
 echo "I'll be using $ssizetype for functions returning a byte count." >&4
else
 $cat >&4 <<EOM
Help! I can't compile and run the ssize_t test program: please enlighten me!
(This is probably a misconfiguration in your system or libraries, and
you really ought to fix it.  Still, I'll try anyway.)

I need a type that is the same size as $sizetype, but is guaranteed to
be signed.  Common values are ssize_t, int and long.

EOM
 rp="What signed type is the same size as $sizetype?"
 . ./myread
 ssizetype="$ans"
fi
```

```
$rm_try

Found in path(s):
*
 /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/ssizetype.U
No license file was found, but licenses were detected in source scan.

?RCS: Copyright (c) 2006-2007, H.Merijn Brand
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS:
?MAKE:d_dir_dd_fd: Compile cat rm_try Setvar i_dirent i_stdlib
?MAKE: -pick add $@ %<
?S:d_dir_dd_fd (d_dir_dd_fd.U):
?S: This variable conditionally defines the HAS_DIR_DD_FD symbol, which
?S: indicates that the DIR directory stream type contains a member
?S: variable called dd_fd.
?S:.
?C:HAS_DIR_DD_FD:
?C: This symbol, if defined, indicates that the the DIR* dirstream
?C: structure contains a member variable named dd_fd.
?C:.
?H:#$d_dir_dd_fd HAS_DIR_DD_FD  /**/
?H:.
?LINT:set d_dir_dd_fd
: Look for DIR.dd_fd
case "$i_dirent"
 in
"$define")
   echo "Checking to see if DIR has a dd_fd member variable" >&4
   $cat >try.c <<EOCP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <dirent.h>

int main() {
   DIR dir;
   dir.dd_fd = 1;
   return 0;
}
```

```
EOCP
  val=$undef
  set try
  if eval $compile; then
     echo "Yes, it does."
     val="$define"
  else
     echo "No, it does not."
     val="$undef"
  fi
  ;;
*)
  echo "You don't have a <dirent.h>, so not checking for dd_fd." >&4
  val="$undef"
  ;;
esac
set d_dir_dd_fd
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_dir_dd_fd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_erf: Inlibc
?MAKE: -pick add $@ %<
?S:d_erf:
?S: This variable conditionally defines the HAS_ERF symbol, which
?S: indicates to the C program that the erf() routine is available.
?S:.
?C:HAS_ERF:
?C: This symbol, if defined, indicates that the erf routine is
?C: available to do the error function.
?C:.
?H:#$d_erf HAS_ERF  /**/
?H:.
?LINT:set d_erf
: see if erf exists
set erf d_erf
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_erf.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: charsize.U,v 3.0.1.1 1994/10/29 16:07:13 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: charsize.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:07:13  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:34  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:charsize charbits: cat rm_try Myread Compile run
?MAKE: -pick add $@ %<
?S:charsize:
?S: This variable contains the value of the CHARSIZE symbol, which
?S: indicates to the C program how many bytes there are in a character.
?S:.
?S:charbits:
?S: This
 variable contains the value of the CHARBITS symbol, which
?S: indicates to the C program how many bits there are in a character.
?S:.
?C:CHARSIZE:
?C: This symbol contains the size of a char, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?C:CHARBITS:
?C: This symbol contains the size of a char, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define CHARSIZE $charsize  /**/
?H:#define CHARBITS $charbits  /**/
?H:.
?F:!try
: length of character in bytes. Is always 1, otherwise it is not C
: This used to be a test using sizeof
charsize=1

: Check for the number of bits in a character
case "$charbits" in
```

```
") echo "Checking how long a character is (in bits)..." >&4
 $cat >try.c <<EOCP
#include <stdio.h>
int main ()
{
   int n;
   unsigned char c;
   for (c = 1, n = 0; c; c <<= 1, n++) ;
   printf ("%d\n", n);
   return (0);
   }
EOCP
 set try
 if eval $compile_ok; then
  dflt=`$run ./try`
 else
  dflt='8'
  echo "(I
 can't seem to compile the test program.  Guessing...)"
 fi
 ;;
*)
 dflt="$charbits"
 ;;
esac
rp="What is the length of a character (in bits)?"
. ./myread
charbits="$ans"
$rm_try
case "$charbits" in
8) ;;
*) cat >&4 << EOM
Your system has an unsigned character size of $charbits bits, which
is rather unusual (normally it is 8 bits).  Perl likely will not work
correctly on your system, with subtle bugs in various places.
EOM
 rp='Do you really want to continue?'
 dflt='n'
 . ./myread
 case "$ans" in
  [yY]) echo >&4 "Okay, continuing." ;;
  *) exit 1    ;;
 esac
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/charsize.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libflex.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libflex.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:57:48  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:07:02  ram
?RCS: patch23: now uses full library path instead of -l notation
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:13:25  ram
?RCS: patch16: un-obsoleted this unit to allow smooth lex/flex compilations
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:59  ram
?RCS: Baseline for dist 3.0 netwide
 release.
?RCS:
?MAKE:libflex: Loc lex libpth _a
?MAKE: -pick add $@ %<
?S:libflex:
?S: This variable contains the argument to pass to the loader in order
?S: to get the flex/lex library routines.  If there is no flex or flex
?S: library, it is null.
?S:.
?T:xxx
: see if we should include -lfl
echo " "
case "$lex" in
*flex)
 xxx=`./loc libfl$_a x $libpth`
 case "$xxx" in
 x)
  echo "No flex library found." >&4
  libflex=''
  ;;
 *)
  echo "flex library found in $xxx." >&4
  libflex="$xxx"
  ;;
```

```
 esac
 ;;
*lex)
 xxx=`./loc libl$_a x $libpth`
 case "$xxx" in
 x)
  echo "No lex library found." >&4
  libflex=''
  ;;
 *)
  echo "lex library found in $xxx." >&4
  libflex="$xxx"
  ;;
 esac
 ;;
*)
echo "You don't seem to have lex or flex, so I won't look for libraries." >&4
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/libflex.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: manfmt.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: manfmt.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  16:11:57  ram
?RCS: patch61: don't ask for AFS when they choose to not install pages
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:16:52  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:39:20  ram
?RCS: patch49: new installmanfmt and AFS-lookup for formatted man pages
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS:
```

```
 Revision 3.0.1.2  1994/08/29  16:30:31  ram
?RCS: patch32: now uses installation prefix for default setting
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:09:22  ram
?RCS: patch10: allows for L1 man page extension (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:manfmt manfmtexp installmanfmt: Getfile Loc Oldconfig cat manext \
 spackage Prefixit prefixexp Prefixup afs test
?MAKE: -pick add $@ %<
?Y:TOP
?S:manfmt:
?S: This variable contains the name of the directory in which formatted
?S: manual pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command. Note
?S: that you may have to do ~name substitution. Use manfmtexp otherwise.
?S:.
?S:manfmtexp:
?S: This is the same as the manfmt variable, but is filename expanded
?S: at configuration time, for programs not willing to deal with it at
?S: run-time.
?S:.
?S:installmanfmt:
?S: This variable is really
 the same as manfmtexp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: mansrcexp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change manext
?T:lookpath
: determine where manual pages go
set manfmt manfmt
eval $prefixit
$cat <<EOM

$spackage has pre-formatted manual pages.  If you don't want these installed,
answer 'none' to the next question.

EOM
case "$manfmt" in
")
 lookpath="$prefixexp/catman/man1 $prefixexp/man/cat1"
 lookpath="$lookpath $prefixexp/catman/u_man/man1"
 lookpath="$lookpath $prefixexp/catman/l_man/man1"
 lookpath="$lookpath $prefixexp/catman/cat1 /usr/catman/local/man1"
```

```
 lookpath="$lookpath /usr/catman/manl /usr/man/cat1"
 lookpath="$lookpath /usr/catman/mann /usr/catman/l_man/man1"
 lookpath="$lookpath /usr/catman/u_man/man1 /usr/catman/man1"
 dflt=`./loc . none $lookpath`
 set dflt
 eval $prefixup
 ;;
*)  dflt="$manfmt"
 ;;
esac
fn=dn~
rp='Where
 do pre-formatted manual pages go?'
. ./getfile
if test "X$manfmtexp" != "X$ansexp"; then
 installmanfmt=''
fi
manfmt="$ans"
manfmtexp="$ansexp"
if $afs && $test "$manfmt"; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
manual pages reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installmanfmt" in
 '') dflt=`echo $manfmtexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installmanfmt";;
 esac
 fn=de~
 rp='Where will pre-formatted man pages be installed?'
 . ./getfile
 installmanfmt="$ans"
else
 installmanfmt="$manfmtexp"
fi

case "$manfmt" in
'') manext='0';;
*l) manext=l;;
*n) manext=n;;
*o) manext=l;;
*p) manext=n;;
*C) manext=C;;
*L) manext=L;;
*L1) manext=L1;;
```

```
*) manext=1;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/manfmt.U
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```
?RCS: $Id: basicshell.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: basicshell.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:25  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:basicshell: Getfile Oldconfig bash csh ksh sh
?MAKE: -pick add $@ %<
?S:basicshell:
?S: This variable contains the eventual value of the BASICSHELL symbol,
?S: which contains the full name of the basic script shell on this
?S: system.  Usual values are /bin/sh, /bin/ksh, /bin/csh.
?S:.
?C:BASICSHELL:
?C: This symbol contains the
 full name of the basic script shell on this
?C: system.  Usual values are /bin/sh, /bin/ksh, /bin/csh.
?C:.
?H:#define BASICSHELL "$basicshell"  /**/
?H:.
: find the most basic shell for scripts
echo " "
case "$basicshell" in
")
 case "$sh $bash $csh $ksh" in
 */sh*) dflt="$sh" ;;
 */ksh*) dflt="$ksh" ;;
 */csh*) dflt="$csh" ;;
 */bash*) dflt="$bash" ;;
 *) dflt='/bin/sh' ;;
 esac
 ;;
```

```
*)
 dflt="$basicshell";;
esac
fn=f
rp="Give the full path name of the most basic shell used on your system"
. ./getfile
basicshell=$ans
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/basicshell.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysun.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysun.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit looks wether <sys/un.h> is available or not
?X:
?MAKE:i_sysun: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysun:
?S: This variable conditionally defines I_SYS_UN, which indicates
?S: to the C program that it should include <sys/un.h> to get UNIX
?S: domain socket definitions.
?S:.
?C:I_SYS_UN:
?C: This symbol, if defined, indicates
 to the C program that it should
?C: include <sys/un.h> to get UNIX domain socket definitions.
?C:.
?H:#$i_sysun I_SYS_UN  /**/
?H:.
?LINT:set i_sysun
: see if this is a sys/un.h system
set sys/un.h i_sysun
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sysun.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Whoa.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:21:21  ram
?RCS: patch61: whoa script now starts with leading "startsh"
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:02:01  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to warn the user in case a change into a variable is noticed.
?X:
?X: To use this
 unit, $was must hold the old value that has changed. Upon
?X: exit, the two variables $td and $tu are set to the correct value for
?X: respectively defining or undefining a variable. For instance, if $vas was
?X: $undef, but now $var is $define, after calling . whoa, you should use
?X: eval "$var=\$tu" to finally set $var to the correct value. See unit Inlibc.
?X:
?MAKE:Whoa: Myread startsh hint
?MAKE: -pick add $@ %<
?F:./whoa
?T:var was
?LINT:change td tu
: set up the script used to warn in case of inconsistency
cat <<EOS >whoa
$startsh
EOS
cat <<'EOSC' >>whoa
dflt=y
```

```
echo " "
echo "*** WHOA THERE!!! ***" >&4
echo "    The $hint value for \$$var on this machine was \"$was\"!" >&4
rp="    Keep the $hint value?"
. ./myread
case "$ans" in
y) td=$was; tu=$was;;
esac
EOSC
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Whoa.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: cppfilecom.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Orginal Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: cppfilecom.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:37  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:cppfilecom cppstdinflags d_cppignhdrs d_cppcanstdin: \
 contains package test Myread Oldconfig Loc Setvar cpp cc cat rm
?MAKE: -pick add $@ %<
?S:cppfilecom:
?S: This variable contains the first part of the string which will invoke
?S: the C preprocessor a file
 and produce to standard output, preserving
?S: comments. Typical value of "cc -E -C" or "/lib/cpp -C".
?S:.
?S:cppstdinflags:
?S: This variable contains any flags necessary to get cppfilecom to read
?S: from the standard input.
?S:.
?S:d_cppignhdrs:
?S: This symbol conditionally defines CPP_IGN_HDRS if CPP_FILE_COM ignores
?S: *.h files.
?S:.
```

```
?S:d_cppcanstdin:
?S: This symbol conditionally defines CPP_CAN_STDIN if CPP_FILE_COM can
?S: read standard input directly.
?S:.
?C:CPP_FILE_COM (CPPFILECOM):
?C: This symbol contains the first part of the string which will invoke
?C: the C preprocessor a file and produce to standard output, preserving
?C: comments. Typical value of "cc -E -C" or "/lib/cpp -C".
?C:.
?C:CPP_STDIN_FLAGS (CPPSTDINFLAGS):
?C: This variable contains any flags necessary to get CPP_FILE_COM to
?C: read from the standard input.
?C:.
?C:CPP_IGN_HDRS (CPPIGNHDRS):
?C: This symbol is defined if CPP_FILE_COM ignores *.h files.
?C:.
?C:CPP_CAN_STDIN (CPPCANSTDIN):
?C: This
 symbol is defined if CPP_FILE_COM can read standard input
?C: directly.
?C:.
?H:#define CPP_FILE_COM "$cppfilecom"
?H:#define CPP_STDIN_FLAGS "$cppstdinflags"
?H:#$d_cppignhdrs CPP_IGN_HDRS  /* does CPP ignore .h files? */
?H:#$d_cppcanstdin CPP_CAN_STDIN  /* can CPP read stdin directly? */
?H:.
?T:cont
?F:!testcpp.c !testcpp.h !testcpp.out
?LINT:set d_cppcanstdin d_cppignhdrs
?LINT:usefile testcpp.c testcpp.out
: see how we invoke the C preprocessor
$cat <<EOM

$package needs to be able to preprocess its input files in a mode which
preserves comments, which is often not the default behaviour.  It should run
the C preprocessor you will use when compiling your own source code, which
should be ISO/ANSI C compliant if you want $package to handle the latest
standard C.  I will try to guess, but I might guess wrongly because it is not
necessarily the same preprocessor used to build $package.

EOM
$cat <<'EOT' >testcpp.c
#define ABC abc
#define XYZ xyz
ABC.XYZ
/* comment */
EOT
:
```

```
if $test "X$cppfilecom"
 != "X" && \
 $cppfilecom testcpp.c </dev/null >testcpp.out 2>/dev/null && \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
 $contains comment testcpp.out >/dev/null 2>&1
then
 echo "You used to use $cppfilecom so we'll use that again."
elif echo 'Maybe "'$cc' -E -C" will work...' && \
 $cc -E -C testcpp.c </dev/null >testcpp.out 2>/dev/null && \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
 $contains comment testcpp.out >/dev/null 2>&1
then
 echo "It works!"
 cppfilecom="$cc -E -C"
elif echo 'Nope...maybe ""$cc"' -P -C" will work...' && \
 $cc -P -C testcpp.c </dev/null >testcpp.out 2>/dev/null && \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
 $contains comment testcpp.out >/dev/null 2>&1
then
 echo "Yup, that does."
 cppfilecom="$cc -P -C"
elif echo 'No such luck, maybe ""$cpp"' -C" will work...' && \
 $cpp -C testcpp.c </dev/null >testcpp.out 2>/dev/null && \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
 $contains comment testcpp.out
 >/dev/null 2>&1
then
 echo "Yup, it does."
 cppfilecom="$cpp -C"
else
 cppfilecom="
 $cat <<'EOM'
I can't find a C preprocessor that will preserve comments. Please name one.
EOM
fi
:
dflt="$cppfilecom"
cont=true
while $test "$cont" ; do
 echo " "
 rp="How should $package run your preprocessor preserving comments?"
 . ./myread
 cppfilecom="$ans"
 $cppfilecom testcpp.c >testcpp.out 2>&1
 if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
  $contains comment testcpp.out >/dev/null 2>&1
 then
  echo "OK, that will do."
```

```
  cont=''
 else
  echo "Sorry, I can't get that to work."
 fi
done

@if CPP_IGN_HDRS || d_cppignhdrs
: Now see if it ignores header files.
cp testcpp.c testcpp.h
$cppfilecom testcpp.h >testcpp.out 2>&1
if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
 $contains comment testcpp.out >/dev/null 2>&1
then
 echo "Terrific; it processes .h files passed on the command line too."
 val="$undef"
else
 echo "It ignores .h files on the command line; pity."
 val="$define"
fi
set
 d_cppignhdrs
eval $setvar

@end
@if CPP_STDIN_FLAGS || CPP_CAN_STDIN || cppstdinflags || d_cppcanstdin
: Now see how to send stdin to it.
echo " "
cp testcpp.c testcpp.h
$cppfilecom <testcpp.h >testcpp.out 2>&1
if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
 $contains comment testcpp.out >/dev/null 2>&1
then
 echo "Great; and it will read stdin if passed no arguments."
 val="$define"
 cppstdinflags=''
else
 $cppfilecom - <testcpp.h >testcpp.out 2>&1
 if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
  $contains comment testcpp.out >/dev/null 2>&1
 then
  echo "Great; and it can read stdin by passing it '-'."
  val="$define"
  cppstdinflags='-'
 else
  $cat <<FOO
Unfortunately, I can't find an easy way to get that preprocessor to read from
standard input. Do you know any flags I can pass it to get it to do so?
If that preprocessor can't read directly form standard input, answer 'none'.
```

```
FOO
 val='dunno'
 while $test "$val" = "dunno"; do
  rp='Flags to get preprocessor
 to read stdin?'
  dflt='none'
  . ./myread
  if $test $ans = 'none'; then
   echo "Oh well, if $package wants it done, it will do it for itself."
   val="$undef"
  else
   $cppfilecom $ans <testcpp.h >testcpp.out 2>&1
   if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
    $contains comment testcpp.out >/dev/null 2>&1
   then
    echo "Good; that works fine."
    val="$define"
    cppstdinflags="$ans"
   else
    echo "Sorry, I couldn't get that to work."
   fi
  fi
 done
 fi
fi
set d_cppcanstdin
eval $setvar

@end
: cleanup cpp test files anyway
$rm -f testcpp.*
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/cppfilecom.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2011, H.Merijn Brand & Tony Cook
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:st_ino_size st_ino_sign: cat echo i_stdlib Setvar Compile run rm_try
?MAKE: -pick add $@ %<
```

```
?S:st_ino_sign:
?S: This variable contains the signedness of struct stat's st_ino.
?S: 1 for unsigned, -1 for signed.
?S:.
?S:st_ino_size:
?S: This variable contains the size of struct stat's st_ino in bytes.
?S:.
?C:ST_INO_SIZE:
?C: This variable contains the size of struct stat's st_ino in bytes.
?C:.
?C:ST_INO_SIGN:
?C: This symbol holds the signedness of struct stat's st_ino.
?C: 1 for unsigned, -1 for signed.
?C:.
?H:#define ST_INO_SIGN
 $st_ino_sign /* st_ino sign */
?H:#define ST_INO_SIZE $st_ino_size /* st_ino size */
?H:.
?F:!try
: Check the size of st_ino
$echo " "
$echo "Checking the size of st_ino..." >&4
$cat > try.c <<EOCP
#include <sys/stat.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() {
   struct stat st;
   printf("%d\n", (int)sizeof(st.st_ino));
   exit(0);
}
EOCP
set try
if eval $compile_ok; then
 val=`$run ./try`
 case "$val" in
 ") st_ino_size=4
  $echo "(I can't execute the test program--guessing $st_ino_size.)" >&4
  ;;
 *) st_ino_size=$val
  $echo "Your st_ino is $st_ino_size bytes long."
  ;;
 esac
else
 st_ino_size=4
```

```
 $echo "(I can't compile the test program--guessing $st_ino_size.)" >&4
fi
$rm_try

: Check if st_ino is signed
$echo " "
$echo "Checking the sign of st_ino..." >&4
$cat > try.c <<EOCP
#include <sys/stat.h>
#include <stdio.h>
int main() {
 struct stat foo;
       foo.st_ino = -1;
 if (foo.st_ino < 0)
  printf("-1\n");
 else
  printf("1\n");
}
EOCP
set
 try
if eval $compile; then
 val=`$run ./try`
 case "$val" in
 ") st_ino_sign=1
  $echo "(I can't execute the test program--guessing unsigned.)" >&4
  ;;
 *) st_ino_sign=$val
  case "$st_ino_sign" in
   1) $echo "Your st_ino is unsigned." ;;
  -1) $echo "Your st_ino is signed."   ;;
  esac
  ;;
 esac
else
 st_ino_sign=1
 $echo "(I can't compile the test program--guessing unsigned.)" >&4
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/st_ino_def.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: floatsize.U,v 3.0.1.1 1994/10/29 16:17:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: floatsize.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:17:09  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:floatsize: cat rm Myread Compile run
?MAKE: -pick add $@ %<
?S:floatsize:
?S: This variable contains the value of the FLOATSIZE symbol, which
?S: indicates to the C program how many bytes there are in a float.
?S:.
?C:FLOATSIZE:
?C: This
 symbol contains the size of a float, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define FLOATSIZE $floatsize  /**/
?H:.
?F:!try
: check for length of float
echo " "
case "$floatsize" in
")
 echo "Checking to see how big your floating point numbers are..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
   printf("%d\n", (int)sizeof(float));
   exit(0);
}
EOCP
 set try
 if eval $compile_ok; then
  floatsize=`$run ./try`
 else
  dflt='4'
  echo "(I can't seem to compile the test program.  Guessing...)"
  rp="What is the size of a floating point number (in bytes)?"
```

```
  . ./myread
  floatsize="$ans"
 fi
 ;;
esac
$rm -f try.c try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/floatsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: errnolist.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:48:01  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: likewise for .o replaced by $_o
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:10:54  ram
?RCS: patch16: created
?RCS:
?MAKE:errnolist errnolist_SH errnolist_a errnolist_c errnolist_o: cat +cc \
 +ccflags +libs +d_sysernlst _a _o
?MAKE: -pick add $@ %<
?S:errnolist:
?S: This variable holds the base name of a file containing the
?S: definition of the sys_errnolist
 array, if the C library
?S: doesn't provide it already.  Otherwise, its value is empty.
?S: The following lines should be included in your Makefile.SH:
?S:
?S:  case "$errnolist" in
?S:  ") ;;
?S:  *)
?S:   $spitshell >>Makefile <<!GROK!THIS!
?S:  $errnolist_c: $errnolist_SH $errnolist_a
?S:   sh ./$errnolist_SH
?S:
?S:  !GROK!THIS!
```

```
?S:   ;;
?S:  esac
?S:
?S: You may define the 'errnolist' variable in your Myinit.U if you
?S: wish to override its default value "errnolist".
?S:.
?S:errnolist_SH:
?S: This is the name of a file which will generate errnolistc.
?S:.
?S:errnolist_a:
?S: This is the name of the awk script called by errnolist_SH.
?S:.
?S:errnolist_c:
?S: This is the name of a generated C file which provides the
?S: definition of the sys_errnolist array.
?S:.
?S:errnolist_o:
?S: This is the name of the object file which provides the
?S: definition of the sys_errnolist array, if the C library
?S: doesn't provide it already.  Otherwise, its value is empty.
?S:.
?INIT:errnolist=errnolist
:
 check for sys_errnolist
@if d_sysernlst || HAS_SYS_ERRNOLIST
case "$d_sysernlst" in
"$define")
   errnolist="
   errnolist_SH="
   errnolist_a="
   errnolist_c="
   errnolist_o="
 ;;
*)
 echo " "
 echo "I'll make sure your Makefile provides sys_errnolist in $errnolist.c"
   errnolist_SH=$errnolist.SH
   errnolist_a=$errnolist$_a
   errnolist_c=$errnolist.c
   errnolist_o=$errnolist$_o
 ;;
esac
@else
echo " "
$cat <<EOM
Checking to see if your C library provides us with sys_errnolist[]...
EOM
$cat >errnolist.c <<'EOCP'
```

```
extern char *sys_errnolist[];
int main() {
   char *p0 = sys_errnolist[0];
   char *p1 = sys_errnolist[1];

   return (p0 == p1); /* Make sure they're not optimized away */
}
EOCP
if $cc $ccflags -o errnolist errnolist.c $libs >/dev/null 2>&1 ; then
   echo "It does."
   errnolist=''
   errnolist_SH=''
   errnolist_a=''
   errnolist_c=''
   errnolist_o=''
else
 echo "I'll make sure your Makefile provides sys_errnolist in $errnolist.c"

   errnolist_SH=$errnolist.SH
   errnolist_a=$errnolist$_a
   errnolist_c=$errnolist.c
   errnolist_o=$errnolist$_o
fi
@end
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/errnolist.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:run to from targetarch targetdir targetmkdir targethost targetport \
 usecrosscompile hostperl hostgenerate hostosname targetenv: \
     src test rm echo sed mkdir cp chmod make touch
?MAKE: -pick add $@ %<
?Y:TOP
?S:usecrosscompile:
?S: This variable conditionally defines the USE_CROSS_COMPILE symbol,
?S: and indicates that Perl has been cross-compiled.
?S:.
?S:run:
?S: This variable contains the command used by Configure
```

```
?S: to copy and execute a cross-compiled executable in the
?S: target host.  Useful and available only during Perl build.
?S: Empty string '' if not cross-compiling.
?S:.
?S:from:
?S: This variable contains the command used by Configure
?S: to copy files from the target host.  Useful
 and available
?S: only during Perl build.
?S: The string ':' if not cross-compiling.
?S:.
?S:to:
?S: This variable contains the command used by Configure
?S: to copy to from the target host.  Useful and available
?S: only during Perl build.
?S: The string ':' if not cross-compiling.
?S:.
?S:targetarch:
?S: If cross-compiling, this variable contains the target architecture.
?S: If not, this will be empty.
?S:.
?S:targetdir:
?S: This variable contains a path that will be created on the target
?S: host using targetmkdir, and then used to copy the cross-compiled
?S: executables to. Defaults to '/tmp' if not set.
?S:.
?S:targetmkdir:
?S: This variable contains the command used by Configure to create a
?S: new directory on the target host.
?S:.
?S:targethost:
?S: This variable contains the name of a separate host machine that
?S: can be used to run compiled test programs and perl tests on.
?S: Set to empty string if not in use.
?S:.
?S:targetport:
?S: This variable contains the number
 of a network port to be used to
?S: connect to the host in targethost, if unset defaults to 22 for ssh.
?S:.
?S:hostperl:
?S: This variable contains the path to a miniperl binary that can be
?S: run on the host OS when cross-compiling.  Useful and available only
?S: during Perl build.
?S: Empty string '' if not cross-compiling.
?S:.
?S:hostgenerate:
?S: This variable contains the path to a generate_uudmap binary that
```

```
?S: can be run on the host OS when cross-compiling.  Useful and
?S: available only during Perl build.
?S: Empty string '' if not cross-compiling.
?S:.
?S:hostosname:
?S: This variable contains the original value of '$^O' for hostperl
?S: when cross-compiling.  This is useful to pick the proper tools
?S: when running build code in the host.
?S: Empty string '' if not cross-compiling.
?S:.
?S:targetenv:
?S: If cross-compiling, this variable can be used to modify the
?S: environment on the target system.
?S: However, how and where it's used, and even if it's used at all, is
?S: entirely
 dependent on both the transport mechanism (targetrun) and
?S: what the target system is.  Unless the relevant documentation says
?S: otherwise, it is genereally not useful.
?S:.
?C:USE_CROSS_COMPILE:
?C: This symbol, if defined, indicates that Perl is being cross-compiled.
?C:.
?C:PERL_TARGETARCH:
?C: This symbol, if defined, indicates the target architecture
?C: Perl has been cross-compiled to.  Undefined if not a cross-compile.
?C:.
?H:?%<:#ifndef USE_CROSS_COMPILE
?H:?%<:#$usecrosscompile USE_CROSS_COMPILE /**/
?H:?%<:#define PERL_TARGETARCH "$targetarch" /**/
?H:?%<:#endif
?H:.
?D:targetenv=''
?D:targethost=''
?D:targetmkdir=''
?T:croak pwd exe f q cwd file xxx env
?LINT:extern usecrosscompile
?LINT:extern cc
?LINT:extern usrinc
?LINT:change ar
?LINT:change nm
?LINT:change ranlib
?LINT:change src
?LINT:extern targetenv
?LINT:extern targetport
?LINT:extern targetdir
?LINT:extern targetuser
?LINT:change targetuser
?LINT:extern targetrun
```

```
?LINT:extern targetfrom
?LINT:extern
 targetto
?LINT:change targetrun
?LINT:change targetfrom
?LINT:change targetto
?LINT:extern incpth
?LINT:extern libpth
?LINT:extern locincpth
?LINT:extern loclibpth
?LINT:change locincpth
?LINT:change loclibpth
?LINT:extern hostperl
?LINT:extern hostgenerate
?LINT:extern before_host
?LINT:change before_host
?LINT:extern hostosname
?LINT:extern multiarch
: Check for Cross-Compilation
?X: targethost and targetenv mainly set to allow ?S: documentation
?X:otherwise it could have been declared extern
if $test "X$targethost" = "X"; then
   targethost=""
fi
if $test "X$targetenv" = "X"; then
   targetenv=""
fi
case "$usecrosscompile" in
$define|true|[yY]*)
 $echo "Cross-compiling..."
 croak="
 case "$cc" in
 *-gcc*|*-g++*) # A cross-compiling gcc, probably.
     # arm-linux-androideabi-gcc  -> arm-linux-androideabi
     # x86_64-w64-mingw32-gcc.exe -> x86_64-w64-mingw32
     targetarch=`$echo $cc|$sed 's/-g[c\+][c\+].*$//'`
     ar=`$echo $cc|$sed 's/-g[c\+][c\+]/-ar/'`
     # leave out ld,
 choosing it is more complex
     nm=`$echo $cc|$sed 's/-g[c\+][c\+]/-nm/'`
     ranlib=`$echo $cc|$sed 's/-g[c\+][c\+]/-ranlib/'`
     # We are in a weird spot. Just before us, some values
     # were 'saved', to be restored after the hints are
     # run.  This means that the changes we made to ar,
     # nm and ranlib will get reverted.
     # To avoid that, we hijack the saving mechanism and
     # have it save our new values.
     for file in ar nm ranlib; do
```

```
 eval xxx=\$$file
 eval $file=$xxx$_exe
 eval _$file=$xxx
    done
;;
esac
case "$targetarch" in
") echo "Targetarch not defined." >&4; croak=y ;;
*)  echo "Using targetarch $targetarch." >&4 ;;
esac
case "$targethost" in
") echo "Targethost not defined." >&4; croak=n ;;
*)  echo "Using targethost $targethost." >&4
esac
locincpth=' '
loclibpth=' '
case "$croak" in
y) echo "Cannot continue, aborting." >&4; exit 1 ;;
esac
  : compile a host miniperl and generate_uudmap, unless we got passed them
  if
$test "X$hostperl" = X; then
    echo "Building host miniperl and generate_uudmap binaries" >&4
    before_host=`pwd`
    cd ..
    cd $src
    src=`pwd`
    rm -rf $src/host
    mkdir $src/host
    cd $src/host
    $src/Configure -des -Dusedevel -Dmksymlinks
    $make miniperl
    case "$hostgenerate" in
    ") $make generate_uudmap
        hostgenerate=$src/host/generate_uudmap
        ;;
     "$undef") hostgenerate="
        ;;
    esac
    hostperl=$src/host/miniperl
    cd $before_host
  fi
  hostosname=`$hostperl -le 'print $^O'`
  ;;
*)
  usecrosscompile="$undef"
  ;;
esac
```

```
: Define -Dtargethost=somecomputer to run compiled tests on another machine
case "$targethost" in
   ") echo "Checking for cross-compile" >&4
   case "$usecrosscompile$multiarch" in
      *$define*) echo "Skipping the try tests in the rest of Configure as no targethost was defined when cross-
compiling" >&4
        if [ -f Makefile ]; then
          echo
 " "
          echo "Now you must ensure config.sh, config.h and the generated headers exist and run a $make."
        else
          echo "Configure done."
        fi
      exit 0
      ;;
    *) echo "No targethost for running compiler tests against defined, running locally" >&4
       run="
       to=:
       from=:
       ;;
   esac
   ;;
   *) echo "Using targethost $targethost." >&4
 case "$src" in
 /*) run=$src/Cross/run
     targetmkdir=$src/Cross/mkdir
     to=$src/Cross/to
     from=$src/Cross/from
     ;;
 *)  pwd=`$test -f ../Configure & cd ..; pwd`
     run=$pwd/Cross/run
     targetmkdir=$pwd/Cross/mkdir
     to=$pwd/Cross/to
     from=$pwd/Cross/from
     ;;
 esac
 case "$targetrun" in
 ") targetrun=ssh ;;
 esac
 case "$targetto" in
 ") targetto=scp ;;
 esac
 case "$targetfrom" in
 ") targetfrom=scp ;;
 esac
 run=$run-$targetrun
 to=$to-$targetto
```

```
 from=$from-$targetfrom
 case "$targetdir" in
 ")  targetdir=/tmp
     echo "Guessing targetdir $targetdir."
 >&4
     ;;
 esac
 case "$targetuser" in
 ")  targetuser=root
     echo "Guessing targetuser $targetuser." >&4
     ;;
 esac
 case "$targetport" in
 ")  targetport=22
     echo "Guessing targetport $targetport." >&4
     ;;
 esac
 case "$targetfrom" in
 scp) q=-q ;;
 *) q=" ;;
 esac
 case "$targetrun" in
 ssh|rsh)
    cat >$run <<EOF
#!/bin/sh
env="
case "\$1" in
-cwd)
 shift
 cwd=\$1
 shift
 ;;
esac
case "\$1" in
-env)
 shift
 env=\$1
 shift
 ;;
esac
case "\$cwd" in
") cwd=$targetdir ;;
esac
exe=\$1
shift
$to \$exe
$targetrun -p $targetport -l $targetuser $targethost "cd \$cwd && \$env \$exe \$@"
EOF
```

```
    ;;
 adb)
    $touch $run
    ;;
 *)  echo "Unknown targetrun '$targetrun'" >&4
    exit 1
    ;;
 esac
 case "$targetmkdir" in
 */Cross/mkdir)
    cat >$targetmkdir <<EOF
#!/bin/sh
$targetrun -p $targetport -l $targetuser $targethost "mkdir -p \$@"
EOF
    $chmod a+rx $targetmkdir
    ;;
 *)  echo "Unknown targetmkdir '$targetmkdir'" >&4
    exit 1
    ;;
 esac
 case
 "$targetto" in
 scp|rcp)
    cat >$to <<EOF
#!/bin/sh
for f in \$@
do
 case "\$f" in
 /*)
   $targetmkdir \`dirname \$f\`
   $targetto -P $targetport -r $q \$f $targetuser@$targethost:\$f          2>/dev/null  || exit 1
   ;;
 *)
   $targetmkdir $targetdir/\`dirname \$f\`
   $targetto -P $targetport -r $q \$f $targetuser@$targethost:$targetdir/\$f 2>/dev/null || exit 1
   ;;
 esac
done
exit 0
EOF
    ;;
 cp) cat >$to <<EOF
#!/bin/sh
for f in \$@
do
 case "\$f" in
 /*)
   $mkdir -p $targetdir/\`dirname \$f\`
```

```
   $cp \$f $targetdir/\$f || exit 1
   ;;
 *)
   $targetmkdir $targetdir/\`dirname \$f\`
   $cp \$f $targetdir/\$f || exit 1
   ;;
 esac
done
exit 0
EOF
     ;;
 *)  echo "Unknown targetto '$targetto'" >&4
     exit 1
     ;;
 esac
 case "$targetfrom" in
 scp|rcp)
   cat >$from <<EOF
#!/bin/sh
for f in \$@
do
 $rm -f \$f
 $targetfrom -P $targetport $q $targetuser@$targethost:$targetdir/\$f . || exit 1
done
exit 0
EOF
     ;;
 cp) cat >$from <<EOF
#!/bin/sh
for
 f in \$@
do
 $rm -f \$f
 cp $targetdir/\$f . || exit 1
done
exit 0
EOF
     ;;
 *)  echo "Unknown targetfrom '$targetfrom'" >&4
     exit 1
     ;;
 esac
 if $test ! -f $run; then
     echo "Target 'run' script '$run' not found." >&4
 else
     $chmod a+rx $run
 fi
 if $test ! -f $to; then
```

```
    echo "Target 'to' script '$to' not found." >&4
 else
    $chmod a+rx $to
 fi
 if $test ! -f $from; then
    echo "Target 'from' script '$from' not found." >&4
 else
    $chmod a+rx $from
 fi
 if $test ! -f $run -o ! -f $to -o ! -f $from; then
    exit 1
 fi
 cat >&4 <<EOF
Using '$run' for remote execution,
and '$from' and '$to'
for remote file transfer.
EOF
 ;;
*) run=''
 to=:
 from=:
 usecrosscompile="$undef"
 targetarch=''
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/Cross.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_sresgproto: Hasproto i_unistd
?MAKE: -pick add $@ %<
?S:d_sresgproto:
?S: This variable conditionally defines the HAS_SETRESGID_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the setresgid() function.  Otherwise, it is
?S: up to the program to supply one.
```

```
?S:.
?C:HAS_SETRESGID_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the setresgid() function.  Otherwise, it is up
?C: to the program to supply one.  Good guesses are
?C:  extern
 int setresgid(uid_t ruid, uid_t euid, uid_t suid);
?C:.
?H:#$d_sresgproto HAS_SETRESGID_PROTO /**/
?H:.
?LINT:set d_sresgproto
: see if prototype for setresgid is available
echo " "
set d_sresgproto setresgid $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sresgproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_backtrace.U,v $
?RCS:
?MAKE:d_backtrace: Inlibc
?MAKE: -pick add $@ %<
?S:d_backtrace:
?S: This variable conditionally defines the HAS_BACKTRACE symbol, which
?S: indicates to the C program that the backtrace() routine is available
?S: to get a stack trace.
?S:.
?C:HAS_BACKTRACE:
?C: This symbol, if defined, indicates that the backtrace() routine is
?C: available to get a stack trace.  The <execinfo.h> header must be
?C: included to use this routine.
?C:.
?H:#$d_backtrace HAS_BACKTRACE /**/
?H:.
?LINT:set d_backtrace
```

```
:
 see if backtrace exists
set backtrace d_backtrace
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_backtrace.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2017 Karl Williamson
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_thread_safe_nl_langinfo_l: Compile cat rm_try Oldconfig \
 i_pthread i_stdlib i_langinfo i_locale  \
 usethreads run
?MAKE: -pick add $@ %<
?S:d_thread_safe_nl_langinfo_l:
?S: This variable contains the eventual value of the
?S: HAS_THREAD_SAFE_NL_LANGINFO_L symbol, which indicates if the
?S: nl_langinfo_l() function exists and is thread-safe.
?S:.
?C:HAS_THREAD_SAFE_NL_LANGINFO_L:
?C: This symbol, when defined, indicates presence of the nl_langinfo_l()
?C: function, and that it is thread-safe.
?C:.
?H:#$d_thread_safe_nl_langinfo_l HAS_THREAD_SAFE_NL_LANGINFO_L /**/
?H:.
?F:!try
: check for thread_safe_nl_langinfo_l item
$cat <<EOM

Checking to see if you have nl_langinfo_l() and that it is thread-safe
EOM
?X:
 Despite claiming that nl_langinfo_l() is thread-safe, the POSIX 2008
?X: standard allows for a non-safe implementation:
?X:
?X:    "nl_langinfo_l() uses an internal per-thread buffer, and nl_langinfo()
?X: uses (in all threads) the same buffer that nl_langinfo_l() uses in the
?X: initial thread. There can be interactions, but only when
?X: nl_langinfo_l() is called in the initial thread"
?X:
?X: If nl_langinfo_l() isn't thread safe, might as well just use plain
```

```
?X: nl_langinfo().
?X:
?X: This program calls nl_langinfo_l(), then creates a thread, calling plain
?X: nl_langinfo() from within it, then sees if the buffer in the original
?X: thread was changed.
$cat >try.c <<EOCP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#include <string.h>
#$i_langinfo I_LANGINFO
#ifdef I_LANGINFO
#  include <langinfo.h>
#endif
#$i_pthread I_PTHREAD
#ifdef I_PTHREAD
#  include <pthread.h>
#endif
#$i_locale I_LOCALE
#ifdef I_LOCALE
#  include <locale.h>
#endif

void *
thread_start(void
 * arg)
{
   nl_langinfo(RADIXCHAR);
}

int main() {
   char * main_buffer;
   char save_main_buffer[1000];
   pthread_t subthread;
   pthread_attr_t attr;

   main_buffer = nl_langinfo_l(CODESET, newlocale(LC_ALL_MASK, "C", 0));

   /* If too large for our generous allowance, just assume we don't have
    * it. */
   if (strlen(main_buffer) >= sizeof(save_main_buffer)) {
       exit(1);
   }

   strcpy(save_main_buffer, main_buffer);

   if (pthread_attr_init(&attr) != 0) {
```

```
        exit(1);
    }

    if (pthread_create(&subthread, &attr, thread_start, NULL) != 0) {
        exit(1);
    }

    if (pthread_join(subthread, NULL) != 0) {
        exit(1);
    }

    exit(! (strcmp(main_buffer, save_main_buffer) == 0));
}
EOCP
case "$usethreads" in
  define)
      set try
      if eval $compile; then
          echo "Your system has nl_langinfo_l()..." >&4
          if $run ./try; then
              echo "and it is thread-safe (just as I'd hoped)." >&4
               d_thread_safe_nl_langinfo_l="$define"
              echo "$d_thread_safe_nl_langinfo_l" >&4
          else
              echo "but it isn't thread-safe, so we won't use it." >&4
          fi
      else
          echo "your system does not have nl_langinfo_l()" >&4
      fi
      ;;
  *) echo "Since threads aren't selected, we won't bother looking for nl_langinfo_l()" >&4
esac
if test X"$d_thread_safe_nl_langinfo_l" = X; then
 d_thread_safe_nl_langinfo_l="$undef"
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_nl_langinfo_l.U
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.

```
?RCS:
?MAKE:d_towlower: Inlibc
?MAKE: -pick add $@ %<
?S:d_towlower:
?S: This variable conditionally defines the HAS_TOWLOWER symbol, which
?S: indicates to the C program that the towlower() routine is available.
?S:.
?C:HAS_TOWLOWER:
?C: This symbol, if defined, indicates that the towlower () routine is
?C: available to do case conversion.
?C:.
?H:#$d_towlower HAS_TOWLOWER  /**/
?H:.
?LINT:set d_towlower
: see if towlower exists
set towlower d_towlower
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_towlower.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_charsprf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_charsprf.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:49  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_charsprf: cat rm +cc Setvar
?MAKE: -pick add $@ %<
?S:d_charsprf:
?S: This variable conditionally defines CHARSPRINTF if this system
?S: declares "char *sprintf()" in stdio.h.  The trend seems to be to
?S: declare it as "int sprintf()".
?S:.
?C:CHARSPRINTF:
?C: This symbol is defined if this system declares "char *sprintf()" in
?C: stdio.h.
```

```
  The trend seems to be to declare it as "int sprintf()".  It
?C: is up to the package author to declare sprintf correctly based on the
?C: symbol.
?C:.
?H:#$d_charsprf CHARSPRINTF  /**/
?H:.
?F:!ucbsprf.c !ucbsprf
?LINT:set d_charsprf
: see if sprintf is declared as int or pointer to char
echo " "
$cat >ucbsprf.c <<'EOF'
int main()
{
 int sprintf();
 char buf[10];
 exit((unsigned long)sprintf(buf,"%s","foo") > 10L);
}
EOF
if $cc -o ucbsprf ucbsprf.c >/dev/null 2>&1 && ./ucbsprf; then
 echo "Your sprintf() returns (int)." >&4
 val="$undef"
else
 echo "Your sprintf() returns (char*)." >&4
 val="$define"
fi
set d_charsprf
eval $setvar
$rm -f ucbsprf*
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_charsprf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Guess.U,v 3.0.1.5 1995/07/25 13:37:14 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Guess.U,v $
?RCS: Revision 3.0.1.5  1995/07/25  13:37:14  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
```

```
?RCS: Revision 3.0.1.4  1994/10/29  15:53:55  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: call ./xenix explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.3  1993/12/15  08:14:35  ram
?RCS: patch15: variable d_bsd was not always set properly
?RCS:
?RCS: Revision 3.0.1.2  1993/08/30  08:57:14  ram
?RCS:
 patch8: fixed comment which wrongly attributed the usrinc symbol
?RCS: patch8: no more ugly messages when no /usr/include/ctype.h
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:37:37  ram
?RCS: patch7: added support for OSF/1 machines
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit hazards some guesses as to what the general nature of the system
?X: is.  The information it collects here is used primarily to establish default
?X: answers to other questions.
?X:
?MAKE:Guess d_eunice d_xenix d_bsd: cat test echo n c contains \
 rm Loc eunicefix tr sysroot
?MAKE: -pick add $@ %<
?S:d_eunice:
?S: This variable conditionally defines the symbols EUNICE and VAX, which
?S: alerts the C program that it must deal with idiosyncrasies of VMS.
?S:.
?S:d_xenix:
?S: This variable conditionally defines the symbol XENIX, which alerts
?S: the C program that it runs under Xenix.
?S:.
?S:d_bsd:
?S: This symbol conditionally defines the
 symbol BSD when running on a
?S: BSD system.
?S:.
?C:EUNICE:
?C: This symbol, if defined, indicates that the program is being compiled
?C: under the EUNICE package under VMS.  The program will need to handle
?C: things like files that don't go away the first time you unlink them,
?C: due to version numbering.  It will also need to compensate for lack
?C: of a respectable link() command.
?C:.
?X: Should we define VMS here?  Is Eunice actually used anymore?
?X:?C:VMS:
```

```
?X:?C: This symbol, if defined, indicates that the program is running under
?X:?C: VMS.  It is currently only set in conjunction with the EUNICE symbol.
?X:?C:.
?C:XENIX:
?C: This symbol, if defined, indicates that the program is running under
?C: Xenix (at least 3.0 ?).
?C:.
?X:  We don't use BSD in the perl source.  It's too vague, and already
?X:  defined in some header files anyway (e.g. NetBSD).  This just gives
?X:  us a spurious redefinition error upon compilation.
?X: --Andy Dougherty  Feb 11, 1998
?X: ?C:BSD:
?X:
 ?C: This symbol, if defined, indicates that the program is running under
?X: ?C: a BSD system.
?X: ?C:.
?H:#$d_eunice EUNICE  /**/
?X:?H:#$d_eunice VMS  /**/
?H:#$d_xenix XENIX  /**/
?X: ?H:#$d_bsd BSD  /**/
?H:.
?F:./bsd ./usg ./v7 ./osf1 ./eunice ./xenix ./venix ./os2
?T:xxx
: make some quick guesses about what we are up against
echo " "
$echo $n "Hmm...  $c"
echo exit 1 >bsd
echo exit 1 >usg
echo exit 1 >v7
echo exit 1 >osf1
echo exit 1 >eunice
echo exit 1 >xenix
echo exit 1 >venix
echo exit 1 >os2
d_bsd="$undef"
?X:
?X: Do not use 'usrinc', or we get a circular dependency. because
?X: usrinc is defined in usrinc.U, which relies on us...
?X:
$cat $sysroot/usr/include/signal.h $sysroot/usr/include/sys/signal.h >foo 2>/dev/null
if test -f /osf_boot || $contains 'OSF/1' $sysroot/usr/include/ctype.h >/dev/null 2>&1
then
 echo "Looks kind of like an OSF/1 system, but we'll see..."
 echo exit 0 >osf1
elif test `echo abc | $tr a-z A-Z` = Abc ; then
 xxx=`./loc addbib blurfl $pth`
 if $test
```

```
 -f $xxx; then
 echo "Looks kind of like a USG system with BSD features, but we'll see..."
  echo exit 0 >bsd
  echo exit 0 >usg
 else
  if $contains SIGTSTP foo >/dev/null 2>&1 ; then
   echo "Looks kind of like an extended USG system, but we'll see..."
  else
   echo "Looks kind of like a USG system, but we'll see..."
  fi
  echo exit 0 >usg
 fi
elif $contains SIGTSTP foo >/dev/null 2>&1 ; then
 echo "Looks kind of like a BSD system, but we'll see..."
 d_bsd="$define"
 echo exit 0 >bsd
else
 echo "Looks kind of like a Version 7 system, but we'll see..."
 echo exit 0 >v7
fi
case "$eunicefix" in
*unixtovms*)
 $cat <<'EOI'
There is, however, a strange, musty smell in the air that reminds me of
something...hmm...yes...I've got it...there's a VMS nearby, or I'm a Blit.
EOI
 echo exit 0 >eunice
 d_eunice="$define"
: it so happens the Eunice I know will not run shell scripts in Unix format
 ;;
*)
 echo " "
 echo "Congratulations.  You aren't running Eunice."
 d_eunice="$undef"
 ;;
esac
: Detect
 OS2.  The p_ variable is set above in the Head.U unit.
: Note that this also -- wrongly -- detects e.g. dos-djgpp, which also uses
: semicolon as a patch separator
case "$p_" in
:) ;;
*)
 $cat <<'EOI'
I have the feeling something is not exactly right, however...don't tell me...
lemme think...does HAL ring a bell?...no, of course, you're only running OS/2!
(Or you may be running DOS with DJGPP.)
EOI
```

```
 echo exit 0 >os2
 ;;
esac
if test -f /xenix; then
 echo "Actually, this looks more like a XENIX system..."
 echo exit 0 >xenix
 d_xenix="$define"
else
 echo " "
 echo "It's not Xenix..."
 d_xenix="$undef"
fi
chmod +x xenix
$eunicefix xenix
if test -f /venix; then
 echo "Actually, this looks more like a VENIX system..."
 echo exit 0 >venix
else
 echo " "
 if ./xenix; then
  : null
 else
  echo "Nor is it Venix..."
 fi
fi
chmod +x bsd usg v7 osf1 eunice xenix venix os2
$eunicefix bsd usg v7 osf1 eunice xenix venix os2
$rm -f foo
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Guess.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Unix.U,v 3.0.1.1 1997/02/28 15:20:06 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Unix.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:20:06  ram
?RCS: patch61: created
?RCS:
```

```
?X:
?X: The purpose of this unit is to define things that are common across all
?X: known UNIX platforms. If Configure is ported/used on a non-UNIX
?X: environment, then some of the following variables can be redefined in hint
?X: files.
?X:
?MAKE:Unix _exe _a _o exe_ext lib_ext obj_ext path_sep \
 firstmakefile archobjs rm_try: Oldconfig rm
?MAKE: -pick add $@ %<
?S:_exe:
?S: This
 variable defines the extension used for executable files.
?S: DJGPP, Cygwin and OS/2 use '.exe'.  Stratus VOS uses '.pm'.
?S: On operating systems which do not require a specific extension
?S: for executable files, this variable is empty.
?S:.
?S:_a:
?S: This variable defines the extension used for ordinary library files.
?S: For unix, it is '.a'.  The '.' is included.  Other possible
?S: values include '.lib'.
?S:.
?S:_o:
?S: This variable defines the extension used for object files.
?S: For unix, it is '.o'.  The '.' is included.  Other possible
?S: values include '.obj'.
?S:.
?S:firstmakefile:
?S: This variable defines the first file searched by make.  On unix,
?S: it is makefile (then Makefile).  On case-insensitive systems,
?S: it might be something else.  This is only used to deal with
?S: convoluted make depend tricks.
?S:.
?S:archobjs:
?S: This variable defines any additional objects that must be linked
?S: in with the program on this architecture.  On unix, it is usually
?S: empty.
  It is typically used to include emulations of unix calls
?S: or other facilities.  For perl on OS/2, for example, this would
?S: include os2/os2.obj.
?S:.
?X: Metaconfig's Obsolete symbol stuff is too over-eager.  In the
?X: perl sources, it picks up things like "P" and "FLOCK" that are
?X: not used in the way Metaconfig thinks they are.  Thus I can't
?X: just declare these obsolete and then run metaconfig -o.
?X: Instead, I'll just handle them here.
?X: Sadly, history has conspired to give us a web of definitions;
?X: this could have been much simpler.
?S:lib_ext:
```

```
?S: This is an old synonym for _a.
?S:.
?S:exe_ext:
?S: This is an old synonym for _exe.
?S:.
?S:obj_ext:
?S: This is an old synonym for _o.
?S:.
?S:path_sep:
?S: This is an old synonym for p_ in Head.U, the character
?S: used to separate elements in the command shell search PATH.
?S:.
?S:rm_try:
?S: This is a cleanup variable for try test programs.
?S: Internal Configure use only.
?S:.
?LINT: change p_
?INIT::
 Trailing extension.  Override this in a hint file, if needed.
?INIT:: Extra object files, if any, needed on this platform.
?INIT:archobjs="
: Define several unixisms.
: Hints files or command line option can be used to override them.
: The convoluted testing is in case hints files set either the old
: or the new name.
case "$_exe" in
") case "$exe_ext" in
 ") ;;
 *) _exe="$exe_ext" ;;
 esac
 ;;
esac
case "$_a" in
") case "$lib_ext" in
   ") _a='.a';;
 *) _a="$lib_ext" ;;
 esac
 ;;
esac
case "$_o" in
") case "$obj_ext" in
 ") _o='.o';;
 *) _o="$obj_ext";;
 esac
 ;;
esac
case "$p_" in
") case "$path_sep" in
```

```
 ") p_=':';;
 *) p_="$path_sep";;
 esac
 ;;
esac
exe_ext=$_exe
lib_ext=$_a
obj_ext=$_o
path_sep=$p_

rm_try="$rm -f try try$_exe a.out .out try.[cho] try.$_o core core.try* try.core*"

@if firstmakefile
: Which makefile gets called first.  This is used by make depend.
case "$firstmakefile" in
") firstmakefile='makefile';;
esac

@end
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Unix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_bcmp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_bcmp.U,v $
?RCS: Revision 3.0.1.2  1993/10/16  13:47:52  ram
?RCS: patch12: added magic support for bcmp()
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:00:44  ram
?RCS: patch10: now only defines HAS_BCMP, no macro remap on memcmp (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_bcmp: Inlibc
?MAKE: -pick add $@ %<
?S:d_bcmp:
```

```
?S: This variable conditionally defines the HAS_BCMP symbol
 if
?S: the bcmp() routine is available to compare strings.
?S:.
?C:HAS_BCMP:
?C: This symbol is defined if the bcmp() routine is available to
?C: compare blocks of memory.
?C:.
?H:#$d_bcmp HAS_BCMP /**/
?H:.
?M:bcmp: HAS_BCMP
?M:#ifndef HAS_BCMP
?M:#ifndef bcmp
?M:#define bcmp(s,d,l) memcmp((s),(d),(l))
?M:#endif
?M:#endif
?M:.
?LINT:set d_bcmp
: see if bcmp exists
set bcmp d_bcmp
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_bcmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_nearbyint: Inlibc
?MAKE: -pick add $@ %<
?S:d_nearbyint:
?S: This variable conditionally defines HAS_NEARBYINT if nearbyint()
?S: is available to return the integral value closest to (according to
?S: the current rounding mode) to x.
?S:.
?C:HAS_NEARBYINT:
?C: This symbol, if defined, indicates that the nearbyint routine is
?C: available to return the integral value closest to (according to
?C: the current rounding mode) to x.
?C:.
?H:#$d_nearbyint HAS_NEARBYINT  /**/
?H:.
?LINT:set d_nearbyint
: see if nearbyint exists
set nearbyint d_nearbyint
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_nearbyint.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_attribut.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_attribut.U,v $
?RCS: Revision 3.0.1.3  1995/01/30  14:33:45  ram
?RCS: patch49: test C program now includes <stdio.h> (WED)
?RCS:
?RCS: Revision 3.0.1.2  1995/01/11  15:25:47  ram
?RCS: patch45: fixed typo in the d_attribut variable (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:08:55  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_attribute_deprecated d_attribute_format
 d_attribute_malloc \
 d_attribute_nonnull d_attribute_noreturn d_attribute_pure \
 d_attribute_unused d_attribute_warn_unused_result \
 d_printf_format_null d_attribute_always_inline: \
    Myread Oldconfig cat cc ccflags rm Setvar compiler_warning \
        i_stdlib run i_inttypes
?MAKE: -pick add $@ %<
?S:d_attribute_format:
?S: This variable conditionally defines HASATTRIBUTE_FORMAT, which
?S: indicates the C compiler can check for printf-like formats.
?S:.
?S:d_attribute_deprecated:
?S: This variable conditionally defines HASATTRIBUTE_DEPRECATED, which
?S: indicates that GCC can handle the attribute for marking deprecated
?S: APIs
?S:.
?S:d_printf_format_null:
?S: This variable conditionally defines PRINTF_FORMAT_NULL_OK, which
?S: indicates the C compiler allows printf-like formats to be null.
```

```
?S:.
?S:d_attribute_malloc:
?S: This variable conditionally defines HASATTRIBUTE_MALLOC, which
?S: indicates the C compiler can understand functions as having
?S: malloc-like semantics.
?S:.
?S:d_attribute_nonnull:
?S: This
 variable conditionally defines HASATTRIBUTE_NONNULL, which
?S: indicates that the C compiler can know that certain arguments
?S: must not be NULL, and will check accordingly at compile time.
?S:.
?S:d_attribute_noreturn:
?S: This variable conditionally defines HASATTRIBUTE_NORETURN, which
?S: indicates that the C compiler can know that certain functions
?S: are guaranteed never to return.
?S:.
?S:d_attribute_pure:
?S: This variable conditionally defines HASATTRIBUTE_PURE, which
?S: indicates that the C compiler can know that certain functions
?S: are "pure" functions, meaning that they have no side effects, and
?S: only rely on function input and/or global data for their results.
?S:.
?S:d_attribute_unused:
?S: This variable conditionally defines HASATTRIBUTE_UNUSED, which
?S: indicates that the C compiler can know that certain variables
?S: and arguments may not always be used, and to not throw warnings
?S: if they don't get used.
?S:.
?S:d_attribute_warn_unused_result:
?S: This
 variable conditionally defines
?S: HASATTRIBUTE_WARN_UNUSED_RESULT, which indicates that the C
?S: compiler can know that certain functions have a return values
?S: that must not be ignored, such as malloc() or open().
?S:.
?S:d_attribute_always_inline:
?S: This variable conditionally defines HASATTRIBUTE_ALWAYS_INLINE,
?S: which indicates that the C compiler can know that certain
?S: functions should always be inlined.
?S:.
?C:HASATTRIBUTE_FORMAT ~ %< (GNUC_ATTRIBUTE_CHECK):
?C: Can we handle GCC attribute for checking printf-style formats
?C:.
?C:PRINTF_FORMAT_NULL_OK:
?C: Allows __printf__ format to be null when checking printf-style
?C:.
?C:HASATTRIBUTE_MALLOC:
```

```
?C: Can we handle GCC attribute for malloc-style functions.
?C:.
?C:HASATTRIBUTE_NONNULL:
?C: Can we handle GCC attribute for nonnull function parms.
?C:.
?C:HASATTRIBUTE_NORETURN:
?C: Can we handle GCC attribute for functions that do not return
?C:.
?C:HASATTRIBUTE_PURE:
?C: Can we handle
 GCC attribute for pure functions
?C:.
?C:HASATTRIBUTE_UNUSED:
?C: Can we handle GCC attribute for unused variables and arguments
?C:.
?C:HASATTRIBUTE_DEPRECATED:
?C: Can we handle GCC attribute for marking deprecated APIs
?C:.
?C:HASATTRIBUTE_WARN_UNUSED_RESULT ~ %< (HASATTRIBUTE):
?C: Can we handle GCC attribute for warning on unused results
?C:.
?C:HASATTRIBUTE_ALWAYS_INLINE:
?C: Can we handle GCC attribute for functions that should always be
?C: inlined.
?C:.
?H:?%<:#$d_attribute_deprecated HASATTRIBUTE_DEPRECATED /**/
?H:?%<:#$d_attribute_format HASATTRIBUTE_FORMAT /**/
?H:?%<:#$d_printf_format_null PRINTF_FORMAT_NULL_OK /**/
?H:?%<:#$d_attribute_noreturn HASATTRIBUTE_NORETURN /**/
?H:?%<:#$d_attribute_malloc HASATTRIBUTE_MALLOC /**/
?H:?%<:#$d_attribute_nonnull HASATTRIBUTE_NONNULL /**/
?H:?%<:#$d_attribute_pure HASATTRIBUTE_PURE /**/
?H:?%<:#$d_attribute_unused HASATTRIBUTE_UNUSED /**/
?H:?%<:#$d_attribute_warn_unused_result HASATTRIBUTE_WARN_UNUSED_RESULT /**/
?H:?%<:#$d_attribute_always_inline
 HASATTRIBUTE_ALWAYS_INLINE /**/
?H:.
?F:!attrib !attrib.out !attrib.c
?LINT:set d_attribute_deprecated
?LINT:set d_attribute_format
?LINT:set d_printf_format_null
?LINT:set d_attribute_malloc
?LINT:set d_attribute_nonnull
?LINT:set d_attribute_noreturn
?LINT:set d_attribute_pure
?LINT:set d_attribute_unused
?LINT:set d_attribute_warn_unused_result
?LINT:set d_attribute_always_inline
```

```
: Look for GCC-style attribute format
case "$d_attribute_format" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((format)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
void my_special_printf(char* pat,...) __attribute__((__format__(__printf__,1,2)));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((format))."
  val="$undef"
 else
  echo "Your C compiler supports __attribute__((format))."
  val="$define"
 fi
else
 echo "Your C compiler
 doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_format" ;;
esac
set d_attribute_format
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute format with null format allowed
case "$d_printf_format_null" in
") case "$d_attribute_format" in
   $define)
 echo " "
 echo "Checking whether your compiler allows __printf__ format to be null ..." >&4
$cat >attrib.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_inttypes I_INTTYPES
#ifdef I_INTTYPES
#include <inttypes.h>
#endif
#ifndef INTPTR_MAX
#define intptr_t int
#endif
```

```
int null_printf (char* pat,...) __attribute__((__format__(__printf__,1,2)));
int null_printf (char* pat,...) { return (int)(intptr_t)pat; }
int main () { exit(null_printf(NULL)); }
EOCP
 if $cc $ccflags -o attrib attrib.c >attrib.out 2>&1 ; then
     : run the executable in case it produces a run-time warning
     if $run ./attrib >>attrib.out 2>&1; then
  if $compiler_warning attrib.out
 >/dev/null 2>&1; then
      echo "Your C compiler doesn't allow __printf__ format to be null."
      val="$undef"
  else
      echo "Your C compiler allows __printf__ format to be null."
      val="$define"
  fi
     else
     echo "Your C compiler executable failed with __printf__ format null."
     val="$undef"
 fi
   else
 echo "Your C compiler fails with __printf__ format null."
 val="$undef"
   fi
   ;;
   *)  val="$undef" ;;
   esac
;;
*)  val="$d_printf_format_null" ;;
esac
set d_printf_format_null
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute malloc
case "$d_attribute_malloc" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((malloc)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
char *go_get_some_memory( int how_many_bytes ) __attribute__((malloc));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((malloc))."
  val="$undef"
 else
  echo
```

```
 "Your C compiler supports __attribute__((malloc))."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_malloc" ;;
esac
set d_attribute_malloc
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute nonnull
case "$d_attribute_nonnull" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((nonnull(1))) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
void do_something (char *some_pointer,...) __attribute__((nonnull(1)));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((nonnull))."
  val="$undef"
 else
  echo "Your C compiler supports __attribute__((nonnull))."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_nonnull" ;;
esac
set d_attribute_nonnull
eval
 $setvar
$rm -f attrib*

: Look for GCC-style attribute noreturn
case "$d_attribute_noreturn" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((noreturn)) ..." >&4
```

```
$cat >attrib.c <<'EOCP'
#include <stdio.h>
void fall_over_dead( void ) __attribute__((noreturn));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((noreturn))."
  val="$undef"
 else
  echo "Your C compiler supports __attribute__((noreturn))."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_noreturn" ;;
esac
set d_attribute_noreturn
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute pure
case "$d_attribute_pure" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((pure)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
int square( int
 n ) __attribute__((pure));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((pure))."
  val="$undef"
 else
  echo "Your C compiler supports __attribute__((pure))."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_pure" ;;
esac
```

```
set d_attribute_pure
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute unused
case "$d_attribute_unused" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((unused)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
int do_something( int dummy __attribute__((unused)), int n );
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((unused))."
  val="$undef"
 else
  echo "Your C compiler supports __attribute__((unused))."
  val="$define"
 fi
else
 echo
 "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_unused" ;;
esac
set d_attribute_unused
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute deprecated
case "$d_attribute_deprecated" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((deprecated)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
int I_am_deprecated(void) __attribute__((deprecated));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((deprecated))."
  val="$undef"
 else
  echo "Your C compiler supports __attribute__((deprecated))."
```

```
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_deprecated" ;;
esac
set d_attribute_deprecated
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute
 warn_unused_result
case "$d_attribute_warn_unused_result" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((warn_unused_result)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
int I_will_not_be_ignored(void) __attribute__((warn_unused_result));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((warn_unused_result))."
  val="$undef"
 else
  echo "Your C compiler supports __attribute__((warn_unused_result))."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_warn_unused_result" ;;
esac
set d_attribute_warn_unused_result
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute always_inline
case "$d_attribute_always_inline" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((always_inline)) ..." >&4
$cat >attrib.c <<'EOCP'
```

```
#include
 <stdio.h>
static __inline__ __attribute__((always_inline)) int I_will_always_be_inlined(void);
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((always_inline))."
  val="$undef"
 else
  echo "Your C compiler supports __attribute__((always_inline))."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_always_inline" ;;
esac
set d_attribute_always_inline
eval $setvar
$rm -f attrib*
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_attribut.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pause.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_pause.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:09:54  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_pause: Inlibc
?MAKE: -pick add $@ %<
?S:d_pause:
?S: This variable conditionally defines the HAS_PAUSE symbol, which
```

```
?S: indicates to the C program that the pause() routine is available
?S: to suspend a process until a signal is received.
?S:.
?C:HAS_PAUSE :
?C: This symbol,
 if defined, indicates that the pause routine is
?C: available to suspend a process until a signal is received.
?C:.
?H:#$d_pause HAS_PAUSE  /**/
?H:.
?LINT:set d_pause
: see if pause exists
set pause d_pause
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_pause.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fmin: Inlibc
?MAKE: -pick add $@ %<
?S:d_fmin:
?S: This variable conditionally defines the HAS_FMIN symbol, which
?S: indicates to the C program that the fmin() routine is available.
?S:.
?C:HAS_FMIN:
?C: This symbol, if defined, indicates that the fmin routine is
?C: available to do the minimum function.
?C:.
?H:#$d_fmin HAS_FMIN  /**/
?H:.
?LINT:set d_fmin
: see if fmin exists
set fmin d_fmin
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fmin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_casti32.U,v 3.0.1.3 1995/05/12 12:10:45 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_casti32.U,v $
?RCS: Revision 3.0.1.3  1995/05/12  12:10:45  ram
?RCS: patch54: made sure cc and ccflags are conditional dependencies
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:09:37  ram
?RCS: patch36: declare signal handler correctly (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:06  ram
?RCS: patch32: created by ADO
?RCS:
?X:
?X: Can the compiler cast large floats to
 32-bit integers?
?X:
?MAKE:d_casti32: cat Compile rm_try intsize Setvar test signal_t run i_stdlib
?MAKE: -pick add $@ %<
?S:d_casti32:
?S: This variable conditionally defines CASTI32, which indicates
?S: whether the C compiler can cast large floats to 32-bit ints.
?S:.
?C:CASTI32:
?C: This symbol is defined if the C compiler can cast negative
?C: or large floating point numbers to 32-bit ints.
?C:.
?H:#$d_casti32 CASTI32  /**/
?H:.
?T:xxx yyy
?F:!try
?LINT:set d_casti32
: check for ability to cast large floats to 32-bit ints.
echo " "
echo 'Checking whether your C compiler can cast large floats to int32.' >&4
if $test "$intsize" -ge 4; then
 xxx=int
else
 xxx=long
fi
$cat >try.c <<EOCP
#include <stdio.h>
```

```
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <sys/types.h>
#include <signal.h>
$signal_t blech(int s) { exit(3); }
int main()
{
 $xxx i32;
 double f, g;
 int result = 0;
 char str[16];
 signal(SIGFPE, blech);

 /* Don't let compiler optimize the test away.
  Store the number
   in a writable string for gcc to pass to sscanf under HP-UX.
 */
 sprintf(str, "2147483647");
 sscanf(str, "%lf", &f); /* f = (double) 0x7fffffff; */
 g = 10 * f;
 i32  = ($xxx) g;

 /* x86 processors will probably give 0x8000 0000, which is a
   sign change.  We don't want that.  We want to mimic SPARC
   behavior here, which is to preserve the sign and give
   back 0x7fff ffff.
 */
 if (i32 != ($xxx) f)
  result |= 1;
 exit(result);
}
EOCP
set try
if eval $compile_ok; then
 $run ./try 2>/dev/null
 yyy=$?
else
 echo "(I can't seem to compile the test program--assuming it can't)"
 yyy=1
fi
case "$yyy" in
0) val="$define"
 echo "Yup, it can."
 ;;
*) val="$undef"
 echo "Nope, it can't."
```

```
 ;;
esac
set d_casti32
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_casti32.U
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```
?RCS: $Id: d_cuserid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_cuserid.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:25  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_cuserid: Inlibc
?MAKE: -pick add $@ %<
?S:d_cuserid:
?S: This variable conditionally defines the HAS_CUSERID symbol, which
?S: indicates to the C program that the cuserid() routine is available
?S: to get character login names.
?S:.
?C:HAS_CUSERID :
?C: This symbol,
 if defined, indicates that the cuserid routine is
?C: available to get character login names.
?C:.
?H:#$d_cuserid HAS_CUSERID  /**/
?H:.
?LINT:set d_cuserid
: see if cuserid exists
set cuserid d_cuserid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/dist/U/d_cuserid.U
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```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_socklen_t: Inhdr cat rm_try Setvar Compile d_socket sizetype
?MAKE: -pick add $@ %<
?S:d_socklen_t:
?S: This symbol will be defined if the C compiler supports socklen_t.
?S:.
?C:HAS_SOCKLEN_T:
?C: This symbol will defined if the C compiler supports socklen_t.
?C: Usually the <sys/socket.h> needs to be included.
?C:.
?H:#$d_socklen_t	HAS_SOCKLEN_T		/**/
?H:.
?LINT:set d_socklen_t
: check for socklen_t
echo " "
echo "Checking to see if you have socklen_t..." >&4
$cat >try.c <<EOCP
#include <sys/types.h>
#$d_socket
 HAS_SOCKET
#ifdef HAS_SOCKET
#include <sys/socket.h>
#endif
int main() { socklen_t x = 16; }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have socklen_t."
else
 val="$undef"
 echo "You do not have socklen_t."
 case "$sizetype" in
 size_t) echo "(You do have size_t, that might work. Some people are happy with just an int.)" ;;
 esac
fi
```

```
$rm_try
set d_socklen_t
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_socklen_t.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libs.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  16:09:11  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.5  1995/07/25  14:12:05  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  16:24:22  ram
?RCS: patch36: removed old broken thislib/thatlib processing (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:05:44  ram
?RCS: patch30: code cleanup with if/elif by ADO and RAM
?RCS: patch30: undone patch23 for libswanted default
 setting
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:08:45  ram
?RCS: patch23: now includes ordered default libswanted variable (ADO)
?RCS: patch23: major cleanup for library lookups (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:02:31  ram
?RCS: patch6: added default for libs
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libs libsfound libsfiles libsdirs libspath libscheck: \
 test cat Myread Oldconfig Loc libpth package xlibpth so _a \
 +usesocks sed +cc +ccflags +ldflags rm
?MAKE: -pick add $@ %<
```

```
?S:libs:
?S: This variable holds the additional libraries we want to use.
?S: It is up to the Makefile to deal with it.  The list can be empty.
?S:.
?S:libsfound:
?S: This variable holds the full pathnames of the libraries
?S: we found and accepted.
?S:.
?S:libsfiles:
?S: This variable holds the filenames aka basenames of the libraries
?S: we found and accepted.
?S:.
?S:libsdirs:
?S: This variable holds the directory
 names aka dirnames of the libraries
?S: we found and accepted, duplicates are removed.
?S:.
?S:libspath:
?S: This variable holds the directory names probed for libraries.
?S:.
?S:libscheck:
?S: This variable is intended to be set by hint files, if needed.
?S: It should contain shell code that will be eval'ed with $xxx holding
?S: some library file.  It may change $xxx if needed.
?S: For instance, on an Irix platform, you may make sure the right
?S: library file is used depending on the cc command line, so that the
?S: correct library is used depending on the selected ABI (for 32 and
?S: 64-bit compilations).
?S:
?S: Here is an example of code that could be found in a hint file on Irix
?S: when the selected compiler was for 32-bit -- that code is put in the
?S: cc.cbu call-back unit to be invoked AFTER the C compiler and its
?S: flags have been chosen:
?S:
?S:  libscheck='case "$xxx" in
?S:  *.a) /bin/ar p $xxx `/bin/ar t $xxx | sed q` >$$.o;
?S:   case "`/usr/bin/file $$.o`" in
?S:   *N32*)
 rm -f $$.o ;;
?S:   *) rm -f $$.o; xxx=/no/n32$xxx ;;
?S:   esac ;;
?S:  *) case "`/usr/bin/file $xxx`" in
?S:   *N32*) ;;
?S:   *) xxx=/no/n32$xxx ;;
?S:   esac ;;
?S:  esac'
?S:.
?D:libs="
```

```
?LINT:extern libswanted
?LINT:change libswanted
?INIT:: default library list
?INIT:libswanted="
?X: This order is chosen so that libraries  -lndir, -ldir, -lucb, -lbsd,
?X: -lBSD, -lPW, and -lx only get used if there are unresolved
?X: routines at link time.  Usually, these are backwards compatability
?X: libraries, and may not be as reliable as the standard c library.
?X:
?X: The -lsocket -linet -lnsl order has been reported to be necessary
?X: for at least one SVR4 implementation.
?X: -lc must proceed -lucb or -lbsd for most Solaris applications.
?X: -lc_s proceeds -lc so we pick up the shared library version, if
?X: it is available.
?X:
?X: The ordering of c, posix, and cposix is a guess and almost
?X: certainly wrong on about half of all systems.
?X:
?X: Set proper libswanted in your private
 Myinit.U if needed.
?X:
?X:: default ordered library list
?X:libswanted='net socket inet bind nsl nm sdbm gdbm ndbm dbm malloc dl'
?X:libswanted="$libswanted dld sun m c_s c posix cposix ndir dir ucb"
?X:libswanted="$libswanted bsd BSD PW x"
?X:
?INIT:: should be set by hint files if needed
?INIT:libscheck="
?T:xxx yyy thislib thisdir libstyle linkmsg
?F:lt.c lt
: Looking for optional libraries
echo " "
echo "Checking for optional libraries..." >&4
case "$libs" in
' '|'') dflt='';;
*) dflt="$libs";;
esac
case "$libswanted" in
'') libswanted='c_s';;
esac
?X: libsocks has nasty naming scheme.
?X: This does not work if somebody wants SOCKS 4.
case "$usesocks" in
"$define") libswanted="$libswanted socks5 socks5_sh" ;;
esac
?X: Used later for link checks
echo "extern char printf(); int main() { printf(); return 0; }" > lt.c
libsfound="
```

```
libsfiles="
libsdirs="
libspath="
for thisdir in $libpth $xlibpth; do
 test -d $thisdir && libspath="$libspath $thisdir"
done
for thislib in $libswanted;
 do
 for thisdir in $libspath; do
    xxx="
    if $test ! -f "$xxx" ; then
   xxx=`ls $thisdir/lib$thislib.$so.[0-9]* 2>/dev/null | $sed -n '1p'`
   $test -f "$xxx" && eval $libscheck
   $test -f "$xxx" && libstyle=shared
    fi
    if test ! -f "$xxx"; then
   xxx=$thisdir/lib$thislib.$so
   $test -f "$xxx" && eval $libscheck
   $test -f "$xxx" && libstyle=shared
    fi
    if test ! -f "$xxx"; then
   xxx=$thisdir/lib$thislib$_a
        $test -f "$xxx" && eval $libscheck
   $test -f "$xxx" && libstyle=static
    fi
    if test ! -f "$xxx"; then
   xxx=$thisdir/$thislib$_a
        $test -f "$xxx" && eval $libscheck
   $test -f "$xxx" && libstyle=static
    fi
    if test ! -f "$xxx"; then
   xxx=$thisdir/lib${thislib}_s$_a
        $test -f "$xxx" && eval $libscheck
   $test -f "$xxx" && libstyle=static
   $test -f "$xxx" && thislib=${thislib}_s
    fi
    if test ! -f "$xxx"; then
   xxx=$thisdir/Slib$thislib$_a
        $test -f "$xxx" && eval $libscheck
   $test
 -f "$xxx" && libstyle=static
    fi
    if $test -f "$xxx"; then
?X:
?X: It is not sufficient to find a .so on the disk.  We must make sure
?X: that we can indeed supply the -lfoo line on the cc line to link against
?X: that library.  On Linux for instance, a versionned .so will not be
?X: implicitly linked against, whereas it will work fine on Solaris 2.6.
```

```
?X:  --RAM, 10/10/2003
?X:
   if $cc -o lt $ccflags $ldflags lt.c -l$thislib >/dev/null 2>&1;
   then
    linkmsg=""
   else
    linkmsg=" but I can't link against it"
   fi
   case "$libstyle" in
   shared) echo "Found -l$thislib (shared)$linkmsg." ;;
   static) echo "Found -l$thislib$linkmsg." ;;
   *)      echo "Found -l$thislib ($libstyle)$linkmsg." ;;
   esac
   case " $dflt " in
   *"-l$thislib "*) ;;
   *)
    case "$linkmsg" in
    ")
     dflt="$dflt -l$thislib"
     libsfound="$libsfound $xxx"
     yyy=`basename $xxx`
     libsfiles="$libsfiles $yyy"
     yyy=`echo $xxx|$sed -e "s%/$yyy\\$%%"`
     case " $libsdirs
 " in
     *" $yyy "*) ;;
     *) libsdirs="$libsdirs $yyy" ;;
     esac
       ;;
    esac
    ;;
   esac
   break
     fi
 done
 if $test ! -f "$xxx"; then
     echo "No -l$thislib."
 fi
done
set X $dflt
shift
dflt="$*"
case "$libs" in
") dflt="$dflt";;
*) dflt="$libs";;
esac
case "$dflt" in
' '|") dflt='none';;
```

```
esac
$rm -f lt.c lt

$cat <<EOM

In order to compile $package on your machine, a number of libraries
are usually needed.  Include any other special libraries here as well.
Say "none" for none.  The default list is almost always right.
EOM

echo " "
rp="Which libraries to use?"
. ./myread
case "$ans" in
none) libs=' ';;
*) libs="$ans";;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/libs.U
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```
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?RCS:
?RCS:
?MAKE:d_dirfd: Compile cat rm Setvar i_dirent i_sysdir i_sysndir i_systypes i_stdlib
?MAKE: -pick add $@ %<
?S:d_dirfd:
?S: This variable conditionally defines the HAS_DIRFD constant,
?S: which indicates to the C program that dirfd() is available
?S: to return the file descriptor of a directory stream.
?S:.
?C:HAS_DIRFD:
?C: This manifest constant lets the C program know that dirfd
?C: is available.
?C:.
?H:#$d_dirfd HAS_DIRFD  /**/
?H:.
?LINT:set d_dirfd
```

```
?X: Can't use Inlibc because dirfd() might be a macro.
: Look
 for dirfd
echo " "
$cat >dirfd.c <<EOM
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_dirent I_DIRENT  /**/
#$i_sysdir I_SYS_DIR  /**/
#$i_sysndir I_SYS_NDIR  /**/
#$i_systypes I_SYS_TYPES /**/
#if defined(I_SYS_TYPES)
#include <sys/types.h>
#endif
#if defined(I_DIRENT)
#include <dirent.h>
#else
#ifdef I_SYS_NDIR
#include <sys/ndir.h>
#else
#ifdef I_SYS_DIR
#include <sys/dir.h>
#endif
#endif
#endif
int main() {
 DIR *dirp = opendir(".");
 if (dirfd(dirp) >= 0)
  exit(0);
 else
  exit(1);
}
EOM
val=$undef
set dirfd
if eval $compile; then
 val="$define"
fi
case "$val" in
$define) echo "dirfd() found." >&4 ;;
*)  echo "dirfd() NOT found." >&4 ;;
esac
set d_dirfd
eval $setvar
$rm -f dirfd*
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_dirfd.U
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```
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_netinettcp: Inhdr
?MAKE: -pick add $@ %<
?S:i_netinettcp:
?S: This variable conditionally defines the I_NETINET_TCP symbol,
?S: and indicates whether a C program should include <netinet/tcp.h>.
?S:.
?C:I_NETINET_TCP:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <netinet/tcp.h>.
?C:.
?H:#$i_netinettcp   I_NETINET_TCP               /**/
?H:.
?LINT:set i_netinettcp
: see if netinet/tcp.h is available
set netinet/tcp.h i_netinettcp
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_netinettcp.U
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```
?RCS: $Id: mallocsrc.U,v 3.0.1.2 1997/02/28 16:10:26 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
```

```
?RCS: $Log: mallocsrc.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:10:26  ram
?RCS: patch61: added support for Free_t, the type of free()
?RCS: patch61: replaced .o with $_o all over the place
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:10:46  ram
?RCS: patch23: added support for MYMALLOC, mainly  for perl5 (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:12  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:mallocsrc mallocobj usemallocwrap usemymalloc
 malloctype d_mymalloc \
 freetype: Myread \
 Oldconfig package Guess Setvar rm cat +cc +ccflags Findhdr \
 i_malloc i_stdlib sed libs _o ptrsize useithreads
?MAKE: -pick add $@ %<
?X: Put near top so that other tests don't erroneously include
?X: -lmalloc.  --AD  22 June 1998
?Y:TOP
?S:usemymalloc:
?S: This variable contains y if the malloc that comes with this package
?S: is desired over the system's version of malloc.  People often include
?S: special versions of malloc for efficiency, but such versions are often
?S: less portable.  See also mallocsrc and mallocobj.
?S: If this is 'y', then -lmalloc is removed from $libs.
?S:.
?S:usemallocwrap:
?S: This variable contains y if we are wrapping malloc to prevent
?S: integer overflow during size calculations.
?S:.
?S:mallocsrc:
?S: This variable contains the name of the malloc.c that comes with
?S: the package, if that malloc.c is preferred over the system malloc.
?S: Otherwise the value is null.  This variable is intended for generating
?S: Makefiles.
?S:.
?S:d_mymalloc:
?S: This
 variable conditionally defines MYMALLOC in case other parts
?S: of the source want to take special action if MYMALLOC is used.
?S: This may include different sorts of profiling or error detection.
?S:.
?S:mallocobj:
?S: This variable contains the name of the malloc.o that this package
?S: generates, if that malloc.o is preferred over the system malloc.
?S: Otherwise the value is null.  This variable is intended for generating
?S: Makefiles.  See mallocsrc.
```

```
?S:.
?S:freetype:
?S: This variable contains the return type of free().  It is usually
?S: void, but occasionally int.
?S:.
?S:malloctype:
?S: This variable contains the kind of ptr returned by malloc and realloc.
?S:.
?C:Free_t:
?C: This variable contains the return type of free().  It is usually
?C: void, but occasionally int.
?C:.
?C:Malloc_t (MALLOCPTRTYPE):
?C: This symbol is the type of pointer returned by malloc and realloc.
?C:.
?H:#define Malloc_t $malloctype   /**/
?H:#define Free_t
 $freetype   /**/
?H:.
?C:PERL_MALLOC_WRAP:
?C: This symbol, if defined, indicates that we'd like malloc wrap checks.
?C:.
?H:#$usemallocwrap PERL_MALLOC_WRAP  /**/
?H:.
?C:MYMALLOC:
?C: This symbol, if defined, indicates that we're using our own malloc.
?C:.
?H:#$d_mymalloc MYMALLOC   /**/
?H:.
?LINT:extern usedevel
?LINT:change libs
?X: Cannot test for mallocsrc; it is the unit's name and there is a bug in
?X: the interpreter which defines all the names, even though they are not used.
@if mallocobj
: determine whether to use malloc wrapping
echo " "
case "$usemallocwrap" in
[yY]*|true|$define) dflt='y' ;;
[nN]*|false|$undef) dflt='n' ;;
*) case "$usedevel" in
 [yY]*|true|$define) dflt='y' ;;
 *) dflt='n' ;;
 esac
 ;;
esac
rp="Do you wish to wrap malloc calls to protect against potential overflows?"
. ./myread
usemallocwrap="$ans"
```

```
case "$ans" in
y*|true)
 usemallocwrap="$define" ;;
*)
 usemallocwrap="$undef" ;;
esac

: determine which malloc to compile in
echo " "
case "$usemymalloc"
 in
[yY]*|true|$define) dflt='y' ;;
[nN]*|false|$undef) dflt='n' ;;
*) case "$ptrsize" in
 4) dflt='y' ;;
 *) dflt='n' ;;
 esac
 if test "$useithreads" = "$define"; then dflt='n'; fi
 ;;
esac
rp="Do you wish to attempt to use the malloc that comes with $package?"
. ./myread
usemymalloc="$ans"
case "$ans" in
y*|true)
 usemymalloc='y'
 mallocsrc='malloc.c'
 mallocobj="malloc$_o"
 d_mymalloc="$define"
?X: Maybe libs.U should be dependent on mallocsrc.U, but then
?X: most packages that use dist probably don't supply their own
?X: malloc, so this is probably an o.k. compromise
 case "$libs" in
 *-lmalloc*)
  : Remove malloc from list of libraries to use
  echo "Removing unneeded -lmalloc from library list" >&4
  set `echo X $libs | $sed -e 's/-lmalloc / /' -e 's/-lmalloc$//'`
  shift
  libs="$*"
  echo "libs = $libs" >&4
  ;;
 esac
 ;;
*)
 usemymalloc='n'
 mallocsrc=''
 mallocobj=''
 d_mymalloc="$undef"
```

```
 ;;
esac

@end
@if MALLOCPTRTYPE || Malloc_t || Free_t
: compute the return types of
 malloc and free
echo " "
$cat >malloc.c <<END
#$i_malloc I_MALLOC
#$i_stdlib I_STDLIB
#include <stdio.h>
#include <sys/types.h>
#ifdef I_MALLOC
#include <malloc.h>
#endif
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#ifdef TRY_MALLOC
void *malloc();
#endif
#ifdef TRY_FREE
void free();
#endif
END
@if MALLOCPTRTYPE || Malloc_t
case "$malloctype" in
")
 if $cc $ccflags -c -DTRY_MALLOC malloc.c >/dev/null 2>&1; then
  malloctype='void *'
 else
  malloctype='char *'
 fi
 ;;
esac
echo "Your system wants malloc to return '$malloctype', it would seem." >&4
@end

@if Free_t
case "$freetype" in
")
 if $cc $ccflags -c -DTRY_FREE malloc.c >/dev/null 2>&1; then
  freetype='void'
 else
  freetype='int'
 fi
 ;;
```

```
esac
echo "Your system uses $freetype free(), it would seem." >&4
@end
$rm -f malloc.[co]
@end
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/mallocsrc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_sendmsg: Inlibc
?MAKE: -pick add $@ %<
?S:d_sendmsg:
?S: This variable conditionally defines the HAS_SENDMSG symbol, which
?S: indicates to the C program that the sendmsg() routine is available.
?S:.
?C:HAS_SENDMSG:
?C: This symbol, if defined, indicates that the sendmsg routine is
?C: available to send structured socket messages.
?C:.
?H:#$d_sendmsg HAS_SENDMSG  /**/
?H:.
?LINT:set d_sendmsg
: see if sendmsg exists
set sendmsg d_sendmsg
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sendmsg.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sh.U,v 3.0.1.1 1997/02/28 16:20:13 ram Exp $
?RCS:
?RCS: Copyright (c) 1997, Chip Salzenberg
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sh.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:20:13  ram
?RCS: patch61: created
?RCS:
?MAKE:sh targetsh: Head
?MAKE: -pick wipe $@ %<
?S:sh:
?S: This variable contains the full pathname of the shell used
?S: on this system to execute Bourne shell scripts.  Usually, this will be
?S: /bin/sh, though it's possible that some systems will have /bin/ksh,
?S: /bin/pdksh, /bin/ash, /bin/bash, or even something such as
?S: D:/bin/sh.exe.
?S: This
 unit comes before Options.U, so you can't set sh with a -D
?S: option, though you can override this (and startsh)
?S: with -O -Dsh=/bin/whatever -Dstartsh=whatever
?S:.
?S:targetsh:
?S: If cross-compiling, this variable contains the location of sh on the
?S: target system.
?S: If not, this will be the same as $sh.
?S:.
?C:SH_PATH:
?C: This symbol contains the full pathname to the shell used on this
?C: on this system to execute Bourne shell scripts.  Usually, this will be
?C: /bin/sh, though it's possible that some systems will have /bin/ksh,
?C: /bin/pdksh, /bin/ash, /bin/bash, or even something such as
?C: D:/bin/sh.exe.
?C:.
?H:#define SH_PATH "$targetsh"  /**/
?H:.
?T:xxx try pth p SYSTYPE
?LINT:extern maintloc maintname _exe
?X:
?X: Be quiet unless something unusual happens because this gets
?X: loaded up even before options are processed.
?X: Can't use ./loc because that depends on startsh, which, in turn
?X: depends on this unit.
?X:
: Find the basic shell for
 Bourne shell scripts
case "$sh" in
")
?X: SYSTYPE is for some older MIPS systems.
?X: I do not know if it is still needed.
```

```
 case "$SYSTYPE" in
 *bsd*|sys5*) xxx="/$SYSTYPE/bin/sh";;
 *) xxx='/bin/sh';;
 esac
 if test -f "$xxx"; then
  sh="$xxx"
 else
  : Build up a list and do a single loop so we can 'break' out.
  pth=`echo $PATH | sed -e "s/$p_/ /g"`
  for xxx in sh bash ksh pdksh ash; do
   for p in $pth; do
    try="$try ${p}/${xxx}"
   done
  done
  for xxx in $try; do
   if test -f "$xxx"; then
    sh="$xxx";
    break
   elif test "X$_exe" != X -a -f "$xxx$_exe"; then
    sh="$xxx";
    break
   elif test -f "$xxx.exe"; then
    sh="$xxx";
    break
   fi
  done
 fi
 ;;
esac

?X: fd 4 isn't open yet...
case "$sh" in
") cat >&2 <<EOM
$me:  Fatal Error:  I can't find a Bourne Shell anywhere.

Usually it's in /bin/sh.  How did you even get this far?
Please report this issue at <$maintloc>
and we'll try to straighten this all out.
EOM
 exit 1
 ;;
esac

: When cross-compiling we
 need to separate the sh-to-run-Configure-with from the sh-to-use-in-Perl
: default both to the same thing, cross-compilers can then set targetsh differently if they like
targetsh=$sh
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/sh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_closedir.U,v 3.0.1.3 1997/02/28 15:31:26 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_closedir.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:31:26  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:11:18  ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:21  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_closedir d_void_closedir: Inlibc i_dirent i_sysdir i_sysndir
 \
 i_systypes Compile Setvar rm_try run
?MAKE: -pick add $@ %<
?S:d_closedir:
?S: This variable conditionally defines HAS_CLOSEDIR if closedir() is
?S: available.
?S:.
?C:HAS_CLOSEDIR:
?C: This symbol, if defined, indicates that the closedir() routine is
?C: available.
?C:.
?H:#$d_closedir HAS_CLOSEDIR  /**/
?H:.
?S:d_void_closedir:
?S: This variable conditionally defines VOID_CLOSEDIR if closedir()
?S: does not return a value.
?S:.
?C:VOID_CLOSEDIR:
?C: This symbol, if defined, indicates that the closedir() routine
?C: does not return a value.
```

```
?C:.
?H:#$d_void_closedir VOID_CLOSEDIR  /**/
?H:.
?F:!try
?LINT:set d_closedir d_void_closedir
: see if closedir exists
set closedir d_closedir
eval $inlibc

@if VOID_CLOSEDIR || d_void_closedir
?X: The following contortions are designed so we can call closedir()
?X: and check whether it returns a value.  The contortions are designed
?X: to portably pick up the correct directory header, for those
?X: systems that support various mutually incompatible
 directory functions.
?X: This is from perl5's perl.h
case "$d_closedir" in
"$define")
 echo " "
 echo "Checking whether closedir() returns a status..." >&4
 cat > try.c <<EOM
#$i_dirent I_DIRENT  /**/
#$i_sysdir I_SYS_DIR  /**/
#$i_sysndir I_SYS_NDIR  /**/
#$i_systypes I_SYS_TYPES /**/

#if defined(I_SYS_TYPES)
#include <sys/types.h>
#endif
#if defined(I_DIRENT)
#include <dirent.h>
#else
#ifdef I_SYS_NDIR
#include <sys/ndir.h>
#else
#ifdef I_SYS_DIR
#include <sys/dir.h>
#endif
#endif
#endif
int main() { return closedir(opendir(".")); }
EOM
 set try
 if eval $compile_ok; then
  if $run ./try > /dev/null 2>&1 ; then
   echo "Yes, it does."
   val="$undef"
  else
```

```
   echo "No, it doesn't."
   val="$define"
  fi
 else
  echo "(I can't seem to compile the test program--assuming it doesn't)"
  val="$define"
 fi
 ;;
*)
 val="$undef";
 ;;
esac
set d_void_closedir
eval $setvar
$rm_try
@end
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_closedir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strdup.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strdup.U,v $
?RCS: Revision 3.0.1.1  1993/12/15  08:21:41  ram
?RCS: patch15: created
?RCS:
?MAKE:d_strdup: Inlibc
?MAKE: -pick add $@ %<
?S:d_strdup:
?S: This variable conditionally defines HAS_STRDUP if strdup() is
?S: available to duplicate strings in memory.
?S:.
?C:HAS_STRDUP:
?C: This symbol, if defined, indicates that the strdup routine is
?C: available to duplicate strings in memory. Otherwise, roll up
?C: your own...
?C:.
?H:#$d_strdup HAS_STRDUP  /**/
```

```
?H:.
?LINT:set
 d_strdup
: see if strdup exists
set strdup d_strdup
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strdup.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_seteuid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_seteuid.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_seteuid: Inlibc
?MAKE: -pick add $@ %<
?S:d_seteuid:
?S: This variable conditionally defines the HAS_SETEUID symbol, which
?S: indicates to the C program that the seteuid() routine is available
?S: to change the effective uid of the current program.
?S:.
?C:HAS_SETEUID (SETEUID):
?C: This symbol, if defined, indicates that the seteuid
 routine is available
?C: to change the effective uid of the current program.
?C:.
?H:#$d_seteuid HAS_SETEUID  /**/
?H:.
?LINT:set d_seteuid
: see if seteuid exists
set seteuid d_seteuid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_seteuid.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_dbm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_dbm.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:48:20  ram
?RCS: patch61: added I_RPCSVC_DBM check
?RCS:
?RCS: Revision 3.0.1.1  1995/05/12  12:16:05  ram
?RCS: patch54: made more robust by checking both header and lib (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_dbm i_rpcsvcdbm: Inhdr Inlibc Setvar
?MAKE: -pick add $@ %<
?S:i_dbm (d_odbm):
?S: This variable conditionally defines
 the I_DBM symbol, which
?S: indicates to the C program that <dbm.h> exists and should
?S: be included.
?S:.
?S:i_rpcsvcdbm:
?S: This variable conditionally defines the I_RPCSVC_DBM symbol, which
?S: indicates to the C program that <rpcsvc/dbm.h> exists and should
?S: be included.  Some System V systems might need this instead of <dbm.h>.
?S:.
?C:I_DBM (HAS_ODBM ODBM):
?C: This symbol, if defined, indicates that <dbm.h> exists and should
?C: be included.
?C:.
?C:I_RPCSVC_DBM:
?C: This symbol, if defined, indicates that <rpcsvc/dbm.h> exists and
?C: should be included.
?C:.
?H:#$i_dbm I_DBM /**/
?H:#$i_rpcsvcdbm I_RPCSVC_DBM /**/
?H:.
?T:d_dbmclose
?LINT:set i_dbm i_rpcsvcdbm
```

```
: see if dbm.h is available
?X: We might just have the header, not the library.
?X: We look for dbmclose() rather than dbminit() because
?X: some versions of SCO Unix have -ldbm, but are missing dbmclose(). -- ADO
?X: Some System V systems have <rpcsvc/dbm.h> instead of <dbm.h>.
: see if dbmclose exists
set dbmclose
 d_dbmclose
eval $inlibc

case "$d_dbmclose" in
$define)
 set dbm.h i_dbm
 eval $inhdr
 case "$i_dbm" in
 $define)
  val="$undef"
  set i_rpcsvcdbm
  eval $setvar
  ;;
 *) set rpcsvc/dbm.h i_rpcsvcdbm
  eval $inhdr
  ;;
 esac
 ;;
*) echo "We won't be including <dbm.h>"
 val="$undef"
 set i_dbm
 eval $setvar
 val="$undef"
 set i_rpcsvcdbm
 eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_dbm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_speedopt.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_speedopt.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:15:51  ram
?RCS: patch36: call ./Cppsym explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_speedopt: Myread Cppsym Oldconfig cat models Setvar
?MAKE: -pick add $@ %<
?S:d_speedopt:
?S: This variable conditionally defines the SPEED_OVER_MEM symbol, which
?S: indicates to the C program that it can
 burn memory in order to save
?S: CPU time.
?S:.
?C:SPEED_OVER_MEM (SPEEDOVERMEM):
?C: This symbol, if defined, indicates that the program can use more
?C: memory in order to reduce CPU time.  The symbol doesn't say whether
?C: we are more interested in saving text space or data space.
?C:.
?H:#$d_speedopt SPEED_OVER_MEM /**/
?H:.
?LINT:set d_speedopt
: do we want speed at the expense of memory
$cat <<'EOM'

I can try to optimize this package for either speed or memory.  If you have
limited address space you may wish to optimize for memory.  Otherwise you
should probably optimize for speed.

EOM
case "$d_speedopt" in
") if ./Cppsym $smallmach; then
 case "$models" in
  *large*|*huge*) dflt=speed;;
  *) dflt=memory;;
  esac
 else
  dflt=speed
 fi
 ;;
*define*) dflt=speed;;
*) dflt=memory;;
esac
rp="What to optimize for?"
. ./myread
```

```
case "$ans" in
mem*) val="$undef";;
*) val="$define";;
esac
set d_speedopt
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_speedopt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sethent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_sethent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sethent: Inlibc
?MAKE: -pick add $@ %<
?S:d_sethent:
?S: This variable conditionally defines HAS_SETHOSTENT if sethostent() is
?S: available.
?S:.
?C:HAS_SETHOSTENT:
?C: This symbol, if defined, indicates that the sethostent() routine is
?C: available.
?C:.
?H:#$d_sethent HAS_SETHOSTENT  /**/
?H:.
?LINT:set d_sethent
: see if sethostent exists
set
 sethostent d_sethent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_sethent.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorscript.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorscript.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:d_vendorscript vendorscript vendorscriptexp installvendorscript: Getfile \
 vendorbin cat Setprefixvar Oldconfig Prefixit test vendorprefix
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorscript:
?S: This variable contains the eventual value of the VENDORSCRIPT symbol.
?S: It may have a ~ on the front.
?S: The standard distribution will put nothing in this
 directory.
?S: Vendors who distribute perl may wish to place additional
?S: executable scripts in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorscriptexp:
?S: This variable is the ~name expanded version of vendorscript, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorscript="
?S:installvendorscript:
?S: This variable is really the same as vendorscriptexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?S:d_vendorscript:
?S: This variable conditionally defines PERL_VENDORSCRIPT.
?S:.
?C:PERL_VENDORSCRIPT:
?C: If defined, this symbol contains the name of a directory
?C: for holding vendor-supplied executable scripts.
?C: It may have a ~ on the front.
?C: The standard distribution will put nothing in this directory.
```

```
?C: Vendors who distribute perl may wish to place additional
?C: executable
 scripts in this directory with
?C:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?C: or equivalent.  See INSTALL for details.
?C:.
?C:PERL_VENDORSCRIPT_EXP:
?C: This symbol contains the ~name expanded version of VENDORSCRIPT, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#$d_vendorscript PERL_VENDORSCRIPT "$vendorscript"  /**/
?H:#$d_vendorscript PERL_VENDORSCRIPT_EXP "$vendorscriptexp"  /**/
?H:.
?LINT:change prefixvar
?LINT:set installvendorscript
: Set the vendorscript variables
case "$vendorprefix" in
") d_vendorscript="$undef"
 vendorscript="
 vendorscriptexp="
 ;;
*) d_vendorscript="$define"
 : determine where vendor-supplied scripts go.
 case "$vendorscript" in
 ") dflt=$vendorprefix/script
  $test -d $dflt || dflt=$vendorbin ;;
 *)  dflt="$vendorscript" ;;
 esac
 $cat <<EOM

The installation process will create a directory for
vendor-supplied scripts.

EOM
 fn=d~+
 rp='Pathname for the vendor-supplied scripts directory?'
 . ./getfile
 vendorscript="$ans"
 vendorscriptexp="$ansexp"
 ;;
esac
prefixvar=vendorscript
.
 ./installprefix
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/vendorscript.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2017 Dagfinn Ilmari Mannsåker
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strnlen: Inlibc
?MAKE: -pick add $@ %<
?S:d_strnlen:
?S: This variable conditionally defines the HAS_STRNLEN symbol, which
?S: indicates to the C program that the strnlen () routine is available.
?S:.
?C:HAS_STRNLEN:
?C: This symbol, if defined, indicates that the strnlen () routine is
?C: available to check the length of a string up to a maximum.
?C:.
?H:#$d_strnlen HAS_STRNLEN  /**/
?H:.
?LINT:set d_strnlen
: see if strnlen exists
set strnlen d_strnlen
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strnlen.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Null.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Null.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:10  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit ends up producing shell code to set all variables to ".  This
?X: probably isn't necessary, but I'm paranoid.  About certain things.
```

```
?X:
?MAKE:Null: Head
?MAKE: -pick add.Null $@ %<

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Null.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_setservent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_setservent_r setservent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_setservent_r:
?S: This variable conditionally defines the HAS_SETSERVENT_R symbol,
?S: which indicates to the C program that the setservent_r()
?S: routine is available.
?S:.
?S:setservent_r_proto:
?S: This variable encodes the prototype of setservent_r.
?S: It is zero if d_setservent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setservent_r
?S: is defined.
?S:.
?C:HAS_SETSERVENT_R:
?C: This symbol, if defined, indicates that the setservent_r routine
?C: is
 available to setservent re-entrantly.
?C:.
?C:SETSERVENT_R_PROTO:
?C: This symbol encodes the prototype of setservent_r.
?C: It is zero if d_setservent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setservent_r
?C: is defined.
?C:.
?H:#$d_setservent_r HAS_SETSERVENT_R /**/
?H:#define SETSERVENT_R_PROTO $setservent_r_proto /**/
?H:.
?T:try hdrs d_setservent_r_proto
: see if setservent_r exists
set setservent_r d_setservent_r
```

```
eval $inlibc
case "$d_setservent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_setservent_r_proto:$usethreads" in
 ":define") d_setservent_r_proto=define
  set d_setservent_r_proto setservent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_setservent_r_proto" in
 define)
 case "$setservent_r_proto" in
 "|0) try='int setservent_r(int, struct servent_data*);'
 ./protochk "$extern_C $try" $hdrs && setservent_r_proto=I_ID ;;
 esac
 case "$setservent_r_proto" in
 "|0) try='void
 setservent_r(int, struct servent_data*);'
 ./protochk "$extern_C $try" $hdrs && setservent_r_proto=V_ID ;;
 esac
 case "$setservent_r_proto" in
 "|0) d_setservent_r=undef
  setservent_r_proto=0
  echo "Disabling setservent_r, cannot determine prototype." >&4 ;;
 * ) case "$setservent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) setservent_r_proto="REENTRANT_PROTO_$setservent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "setservent_r has no prototype, not using it." >&4 ;;
  esac
  d_setservent_r=undef
  setservent_r_proto=0
  ;;
 esac
 ;;
*) setservent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_setservent_r.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_psignal.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_psignal.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:49  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_psignal: Inlibc
?MAKE: -pick add $@ %<
?S:d_psignal:
?S: This variable conditionally defines the HAS_PSIGNAL symbol, which
?S: indicates that the psignal() routine exists.  The psignal() routine
?S: prints a description of a signal on the standard error output.
?S:.
?C:HAS_PSIGNAL (PSIGNAL):
?C: This symbol, if defined, indicates
 that the psignal() routine exists.
?C:.
?H:#$d_psignal HAS_PSIGNAL  /**/
?H:.
?LINT:set d_psignal
: see if psignal exists
set psignal d_psignal
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_psignal.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ttyname_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_ttyname_r ttyname_r_proto: Inlibc Protochk Hasproto i_systypes \
```

```
 usethreads i_unistd extern_C
?MAKE: -pick add $@ %<
?S:d_ttyname_r:
?S: This variable conditionally defines the HAS_TTYNAME_R symbol,
?S: which indicates to the C program that the ttyname_r()
?S: routine is available.
?S:.
?S:ttyname_r_proto:
?S: This variable encodes the prototype of ttyname_r.
?S: It is zero if d_ttyname_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_ttyname_r
?S: is defined.
?S:.
?C:HAS_TTYNAME_R:
?C: This symbol, if defined, indicates that the ttyname_r routine
?C: is available to ttyname re-entrantly.
?C:.
?C:TTYNAME_R_PROTO:
?C: This
 symbol encodes the prototype of ttyname_r.
?C: It is zero if d_ttyname_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_ttyname_r
?C: is defined.
?C:.
?H:#$d_ttyname_r HAS_TTYNAME_R /**/
?H:#define TTYNAME_R_PROTO $ttyname_r_proto /**/
?H:.
?T:try hdrs d_ttyname_r_proto
: see if ttyname_r exists
set ttyname_r d_ttyname_r
eval $inlibc
case "$d_ttyname_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_unistd unistd.h"
 case "$d_ttyname_r_proto:$usethreads" in
 ":define") d_ttyname_r_proto=define
  set d_ttyname_r_proto ttyname_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_ttyname_r_proto" in
 define)
 case "$ttyname_r_proto" in
 "|0) try='int ttyname_r(int, char*, size_t);'
 ./protochk "$extern_C $try" $hdrs && ttyname_r_proto=I_IBW ;;
 esac
 case "$ttyname_r_proto" in
 "|0) try='int ttyname_r(int, char*, int);'
```

```
 ./protochk "$extern_C $try" $hdrs && ttyname_r_proto=I_IBI ;;
 esac
 case "$ttyname_r_proto"
 in
"|0) try='char* ttyname_r(int, char*, int);'
 ./protochk "$extern_C $try" $hdrs && ttyname_r_proto=B_IBI ;;
 esac
 case "$ttyname_r_proto" in
"|0) d_ttyname_r=undef
  ttyname_r_proto=0
  echo "Disabling ttyname_r, cannot determine prototype." >&4 ;;
 * ) case "$ttyname_r_proto" in
  REENTRANT_PROTO*) ;;
  *) ttyname_r_proto="REENTRANT_PROTO_$ttyname_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "ttyname_r has no prototype, not using it." >&4 ;;
  esac
  d_ttyname_r=undef
  ttyname_r_proto=0
  ;;
 esac
 ;;
*) ttyname_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_ttyname_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Extract.U,v 3.0.1.2 1997/02/28 14:58:52 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Extract.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  14:58:52  ram
?RCS: patch61: added support for src.U
```

```
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:51:46  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which can be doted in order to extract
?X: .SH files with variable substitutions.
?X:
?X: When running
 Configure from a remote directory ($src is not '.'),
?X: then the files will be created in that directory, so beware!
?X:
?MAKE:Extract: src
?MAKE: -pick add $@ %<
?F:./extract
?T:PERL_CONFIG_SH dir file name create mkdir_p
: script used to extract .SH files with variable substitutions
cat >extract <<'EOS'
PERL_CONFIG_SH=true
echo "Doing variable substitutions on .SH files..."
if test -f MANIFEST; then
 set x `awk '{print $1}' < MANIFEST | grep '\.SH$'`
else
 echo "(Looking for .SH files under the source directory.)"
 set x `(cd "$src"; find . -name "*.SH" -print)`
fi
shift
case $# in
0) set x `(cd "$src"; echo *.SH)`; shift;;
esac
if test ! -f "$src/$1"; then
 shift
fi
?X: script to emulate mkdir -p
mkdir_p='
name=$1;
create="";
while test $name; do
 if test ! -d "$name"; then
  create="$name $create";
  name=`echo $name | sed -e "s|^[^/]*$||"`;
  name=`echo $name | sed -e "s|\(.*\)/.*|\1|"`;
 else
  name="";
 fi;
```

```
done;
for file in $create; do
 mkdir $file;
done
'
for file in $*;
 do
 case "$src" in
 ".")
  case "$file" in
  */*)
   dir=`expr X$file : 'X\(.*\)/'`
   file=`expr X$file : 'X.*/\(.*\)'`
   (cd "$dir" && . ./$file)
   ;;
  *)
   . ./$file
   ;;
  esac
  ;;
 *)
?X:
?X: When running Configure remotely ($src is not '.'), we cannot source
?X: the files directly, since that would wrongly cause the extraction
?X: where the source lie instead of withing the current directory. Therefore,
?X: we need to 'sh <file' then, which is okay since they will source the
?X: existing config.sh file. It's not possible to use:
?X:  ../src/Configure -S -O -Dsomething
?X: unfortunately since no new config.sh with the -Dsomething override
?X: will be created before running the .SH files. A minor buglet.
?X:
?X: Note that we must create the directory hierarchy ourselves if it does
?X: not exist already, and that is done through a shell emulation of the
?X: 'mkdir -p' command. We don't want to use the $installdir metaconfig
?X: symbol here since that would require too much to
 be configured for
?X: this simple extraction task that may happen quickly with 'Configure -S'.
?X:  -- RAM, 18/03/96
?X:
  case "$file" in
  */*)
   dir=`expr X$file : 'X\(.*\)/'`
   file=`expr X$file : 'X.*/\(.*\)'`
   (set x $dir; shift; eval $mkdir_p)
   sh <"$src/$dir/$file"
   ;;
  *)
   sh <"$src/$file"
```

```
   ;;
  esac
  ;;
 esac
done
if test -f "$src/config_h.SH"; then
 if test ! -f config.h; then
 : oops, they left it out of MANIFEST, probably, so do it anyway.
 . "$src/config_h.SH"
 fi
fi
EOS
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Extract.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fcntl_can_lock.U,v$
?RCS:
?RCS: Copyright (c) 2000, Andrew Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_fcntl_can_lock.U,v $
?RCS:
?MAKE:d_fcntl_can_lock: d_fcntl Compile Setvar cat rm_try run signal_t i_stdlib
?MAKE: -pick add $@ %<
?S:d_fcntl_can_lock:
?S: This variable conditionally defines the FCNTL_CAN_LOCK symbol
?S: and indicates whether file locking with fcntl() works.
?S:.
?C:FCNTL_CAN_LOCK:
?C: This symbol, if defined, indicates that fcntl() can be used
?C: for file locking.  Normally on Unix systems this is defined.
?C: It may be undefined on VMS.
?C:.
?H:#$d_fcntl_can_lock FCNTL_CAN_LOCK  /**/
?H:.
?F:!try
?LINT: set d_fcntl_can_lock
?X: fcntl may not be fully functional.  As of November 2000, on VMS and
?X: DOS/DJGPP, fctnl-based locking doesn't work.
?X: Thanks
 to Craig A. Berry <craig.berry@psinetcs.com> for this test.
: See if fcntl-based locking works.
echo " "
```

```
$cat >try.c <<EOCP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <unistd.h>
#include <fcntl.h>
#include <signal.h>
$signal_t blech(int x) { exit(3); }
int main() {
#if defined(F_SETLK) && defined(F_SETLKW)
    struct flock flock;
    int retval, fd;
    fd = open("try.c", O_RDONLY);
    flock.l_type = F_RDLCK;
    flock.l_whence = SEEK_SET;
    flock.l_start = flock.l_len = 0;
    signal(SIGALRM, blech);
    alarm(10);
    retval = fcntl(fd, F_SETLK, &flock);
    close(fd);
    (retval < 0 ? exit(2) : exit(0));
#else
    exit(2);
#endif
}
EOCP
echo "Checking if fcntl-based file locking works... "
case "$d_fcntl" in
"$define")
 set try
 if eval $compile_ok; then
  if $run ./try; then
   echo "Yes, it seems to work."
   val="$define"
  else
   echo "Nope, it didn't work."
   val="$undef"
   case "$?" in
   3) $cat >&4 <<EOM
***
*** I had to
 forcibly timeout from fcntl(..., F_SETLK, ...).
*** This is (almost) impossible.
*** If your NFS lock daemons are not feeling well, something like
*** this may happen, please investigate.  Cannot continue, aborting.
***
EOM
```

```
    exit 1
    ;;
   esac
  fi
 else
  echo "I'm unable to compile the test program, so I'll assume not."
  val="$undef"
 fi
 ;;
*) val="$undef";
 echo "Nope, since you don't even have fcntl()."
 ;;
esac
set d_fcntl_can_lock
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fcntl_can_lock.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?X:
?X: Useless unit dropped.  Use randfunc instead.
?X:
?LINT:empty
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/randbits.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Signal.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:20:01  ram
?RCS: patch61: created
?RCS:
?X:
?X: This unit produces three files:
?X:
?X: 1- A signal.c file, which, when compiled and run, produces an output like:
?X:
?X:   HUP 1
?X:   INT 2
?X:   QUIT 3
?X:   etc...
?X:
?X: 2- A signal.awk script to parse the output of signal.c, fill
?X: in gaps (up to NSIG) and move duplicates to the end.
?X:
?X: 3- A signal_cmd script to compile signal.c and run it
?X: through sort -n -k 2 | uniq | awk -f signal.awk.
?X:
 (we try also sort -n +1 since some old hosts don't grok sort -k)
?X: (This is called signal_cmd to avoid OS/2 confusion with
?X: signal.cmd vs. signal.
?X: The signal_cmd script also falls back on checking signals one at a
?X: time in case the signal.c program fails.  On at least one version of
?X: Linux 2.1.x, the header file #define'd SIGRTMAX to a symbol that
?X: is not defined by the compiler/linker. :-(.  Further, on that same
?X: version of Linux, the user had a defective C-shell that gave an
?X: incorrect list for kill -l, so the fall-back didn't work.
?X:
?X: This unit is then used by sig_name.U.
?X:
?MAKE:Signal: test tr rm awk cat grep startsh eunicefix sed sort uniq \
 Findhdr cppstdin +cppflags cppminus Compile trnl run
?MAKE: -pick add $@ %<
?X:all files declared as "public" since they're used from other units
?F:signal.c signal_cmd signal.lst signal signal.awk
?T: xx xxx xxxfiles
?LINT:use rm run
: Trace out the files included by signal.h, then look for SIGxxx
 names.
?X: Remove SIGARRAYSIZE used by HPUX.
?X: Remove SIGSTKSIZE used by Linux.
?X: Remove SIGSTKSZ used by Posix.
?X: Remove SIGTYP void lines used by OS2.
```

```
?X: Some cpps, like os390, dont give the file name anywhere
if [ "X$fieldn" = X ]; then
 : Just make some guesses.  We check them later.
 xxx='/usr/include/signal.h /usr/include/sys/signal.h'
else
 xxx=`echo '#include <signal.h>' |
 $cppstdin $cppminus $cppflags 2>/dev/null |
 $grep '^[  ]*#.*include' |
 $awk "{print \\$$fieldn}" | $sed 's!"!!g' |\
  $sed 's!\\\\\\\\!/!g' | $sort | $uniq`
fi
?X: Check this list of files to be sure we have parsed the cpp output ok.
?X: This will also avoid potentially non-existent files, such
?X: as ../foo/bar.h
xxxfiles=''
?X: Add /dev/null in case the $xxx list is empty.
for xx in $xxx /dev/null ; do
 $test -f "$xx" && xxxfiles="$xxxfiles $xx"
done
?X: If we have found no files, at least try signal.h
case "$xxxfiles" in
'') xxxfiles=`./findhdr signal.h` ;;
esac
xxx=`awk '
$1 ~ /^#define$/ &&
 $2 ~ /^SIG[A-Z0-9]*$/ && $2 !~ /SIGARRAYSIZE/ && $2 !~ /SIGSTKSIZE/ && $2 !~ /SIGSTKSZ/ && $3 !~
/void/ {
 print substr($2, 4, 20)
}
$1 == "#" && $2 ~ /^define$/ && $3 ~ /^SIG[A-Z0-9]*$/ && $3 !~ /SIGARRAYSIZE/ && $4 !~ /void/ {
 print substr($3, 4, 20)
}' $xxxfiles`
: Append some common names just in case the awk scan failed.
xxx="$xxx ABRT ALRM BUS CANCEL CHLD CLD CONT DIL EMT FPE"
xxx="$xxx FREEZE HUP ILL INT IO IOT KILL LOST LWP PHONE"
xxx="$xxx PIPE POLL PROF PWR QUIT RTMAX RTMIN SEGV STKFLT STOP"
xxx="$xxx SYS TERM THAW TRAP TSTP TTIN TTOU URG USR1 USR2"
xxx="$xxx USR3 USR4 VTALRM WAITING WINCH WIND WINDOW XCPU XFSZ"

: generate a few handy files for later
$cat > signal.c <<'EOCP'
#include <sys/types.h>
#include <signal.h>
#include <stdio.h>
int main() {

/* Strange style to avoid deeply-nested #if/#else/#endif */
#ifndef NSIG
```

```
#  ifdef _NSIG
#    define NSIG (_NSIG)
#  endif
#endif

#ifndef NSIG
#  ifdef SIGMAX
#    define NSIG (SIGMAX+1)
#  endif
#endif

#ifndef NSIG
#  ifdef SIG_MAX
#
   define NSIG (SIG_MAX+1)
#  endif
#endif

#ifndef NSIG
#  ifdef MAXSIG
#    define NSIG (MAXSIG+1)
#  endif
#endif

#ifndef NSIG
#  ifdef MAX_SIG
#    define NSIG (MAX_SIG+1)
#  endif
#endif

#ifndef NSIG
#  ifdef SIGARRAYSIZE
#    define NSIG (SIGARRAYSIZE+1) /* Not sure of the +1 */
#  endif
#endif

#ifndef NSIG
#  ifdef _sys_nsig
#    define NSIG (_sys_nsig) /* Solaris 2.5 */
#  endif
#endif

/* Default to some arbitrary number that's big enough to get most
  of the common signals.
*/
#ifndef NSIG
#    define NSIG 50
#endif
```

```
printf("NSIG %d\n", NSIG);

#ifndef JUST_NSIG

EOCP

echo $xxx | $tr ' ' $trnl | $sort | $uniq | $awk '
{
 printf "#ifdef SIG"; printf $1; printf "\n"
 printf "printf(\""; printf $1; printf " %%d\\n\",SIG";
 printf $1; printf ");\n"
 printf "#endif\n"
}
END {
 printf "#endif /* JUST_NSIG */\n";
 printf "exit(0);\n}\n";
}
' >>signal.c
$cat >signal.awk <<'EOP'
BEGIN { ndups = 0 }
$1 ~ /^NSIG$/ { nsig = $2 }
($1 !~ /^NSIG$/) && (NF == 2) {
   if ($2 >
 maxsig) { maxsig = $2 }
   if (sig_name[$2]) {
 dup_name[ndups] = $1
 dup_num[ndups] = $2
 ndups++
   }
   else {
 sig_name[$2] = $1
 sig_num[$2] = $2
   }
}
END {
   if (nsig == 0) {
    nsig = maxsig + 1
   }
   printf("NSIG %d\n", nsig);
   for (n = 1; n < nsig; n++) {
 if (sig_name[n]) {
     printf("%s %d\n", sig_name[n], sig_num[n])
 }
 else {
     printf("NUM%d %d\n", n, n)
 }
   }
```

```
   for (n = 0; n < ndups; n++) {
 printf("%s %d\n", dup_name[n], dup_num[n])
   }
}
EOP
$cat >signal_cmd <<EOS
$startsh
if $test -s signal.lst; then
   echo "Using your existing signal.lst file"
 exit 0
fi
xxx="$xxx"
EOS
?X: Avoid variable interpolation problems, especially with
?X: xxx, which contains newlines.
$cat >>signal_cmd <<'EOS'

set signal
if eval $compile_ok; then
 $run ./signal$_exe | ($sort -n -k 2 2>/dev/null || $sort -n +1) |\
  $uniq | $awk -f signal.awk >signal.lst
else
 echo "(I can't seem be able to compile the whole test program)" >&4
 echo "(I'll try it in little
 pieces.)" >&4
 set signal -DJUST_NSIG
 if eval $compile_ok; then
  $run ./signal$_exe > signal.nsg
  $cat signal.nsg
 else
  echo "I can't seem to figure out how many signals you have." >&4
  echo "Guessing 50." >&4
  echo 'NSIG 50' > signal.nsg
 fi
 : Now look at all the signal names, one at a time.
 for xx in `echo $xxx | $tr ' ' $trnl | $sort | $uniq`; do
  $cat > signal.c <<EOCP
#include <sys/types.h>
#include <signal.h>
#include <stdio.h>
int main() {
printf("$xx %d\n", SIG${xx});
return 0;
}
EOCP
  set signal
  if eval $compile; then
   echo "SIG${xx} found."
```

```
  $run ./signal$_exe  >> signal.ls1
 else
  echo "SIG${xx} NOT found."
 fi
done
if $test -s signal.ls1; then
 $cat signal.nsg signal.ls1 |
  $sort -n | $uniq | $awk -f signal.awk >signal.lst
fi

fi
if $test -s signal.lst; then
 :
else
 echo "(AAK! I can't compile the test programs -- Guessing)" >&4
 echo 'kill -l' >signal
 set X `csh -f <signal`
 $rm -f signal
 shift
 case $# in
 0) set HUP INT QUIT ILL TRAP ABRT
 EMT FPE KILL BUS SEGV SYS PIPE ALRM TERM;;
 esac
 echo $@ | $tr ' ' $trnl | \
    $awk '{ printf "%s %d\n", $1, ++s; }
   END { printf "NSIG %d\n", ++s }' >signal.lst
fi
$rm -f signal.c signal$_exe signal$_o signal.nsg signal.ls1
EOS
chmod a+x signal_cmd
$eunicefix signal_cmd
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Signal.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS:
?MAKE:i_fenv: Inhdr
?MAKE: -pick add $@ %<
?S:i_fenv:
?S: This variable conditionally defines the I_FENV symbol, which
?S: indicates to the C program that <fenv.h> exists and should
?S: be included.
?S:.
?C:I_FENV:
```

```
?C: This symbol, if defined, indicates to the C program that it should
?C: include <fenv.h> to get the floating point environment definitions.
?C:.
?H:#$i_fenv I_FENV  /**/
?H:.
?LINT:set i_fenv
: see if this is a fenv.h system
set fenv.h i_fenv
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_fenv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_socks.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_socks: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_socks:
?S: This variable conditionally defines the I_SOCKS symbol, and indicates
?S: whether a C program should include <socks.h>.
?S:.
?C:I_SOCKS:
?C: This symbol, if defined, indicates that <socks.h> exists and
?C: should be included.
?C:.
?H:#$i_socks I_SOCKS  /**/
?H:.
?LINT:set i_socks
: see if this is a socks.h system
set socks.h i_socks
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_socks.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: prefix.U,v $
?RCS: Revision 3.0.1.2  1995/01/30  14:44:05  ram
?RCS: patch49: new prefixexp variable holding a fully expanded prefix
?RCS: patch49: save off previous prefix value in oldprefix if changed (WED)
?RCS: patch49: added the INSTALLPREFIX define for C programs to use (WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:31:34  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:prefix prefixexp +oldprefix: Getfile Loc Oldconfig
 cat package
?MAKE: -pick add $@ %<
?S:prefix:
?S: This variable holds the name of the directory below which the
?S: user will install the package.  Usually, this is /usr/local, and
?S: executables go in /usr/local/bin, library stuff in /usr/local/lib,
?S: man pages in /usr/local/man, etc.  It is only used to set defaults
?S: for things in bin.U, mansrc.U, privlib.U, or scriptdir.U.
?S:.
?S:prefixexp:
?S: This variable holds the full absolute path of the directory below
?S: which the user will install the package.  Derived from prefix.
?S:.
?S:oldprefix:
?S: This variable is set non-null if the prefix was previously defined
?S: and gets set to a new value. Used internally by Configure only.
?S:.
?C:INSTALLPREFIX:
?C: This symbol contains the name of the install prefix for this package.
?C:.
?H:#define INSTALLPREFIX "$prefix"  /**/
?H:.
: determine root of directory hierarchy where package will be installed.
case "$prefix" in
")
 dflt=`./loc . /usr/local /usr/local /local /opt
 /usr`
 ;;
*)
 dflt="$prefix"
```

```
 ;;
esac
$cat <<EOM

By default, $package will be installed in $dflt/bin, manual
pages under $dflt/man, etc..., i.e. with $dflt as prefix for
all installation directories. Typically set to /usr/local, but you
may choose /usr if you wish to install $package among your system
binaries. If you wish to have binaries under /bin but manual pages
under /usr/local/man, that's ok: you will be prompted separately
for each of the installation directories, the prefix being only used
to set the defaults.

EOM
fn=d~
rp='Installation prefix to use?'
. ./getfile
oldprefix=''
case "$prefix" in
'') ;;
*)
 case "$ans" in
 "$prefix") ;;
 *) oldprefix="$prefix";;
 esac
 ;;
esac
prefix="$ans"
prefixexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/prefix.U
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```
?RCS: $Id: d_scorfl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_scorfl.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:01  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?MAKE:d_scorfl: cat Myread Oldconfig nametype Setvar
?MAKE: -pick add $@ %<
?S:d_scorfl:
?S: This variable conditionally defines the SCOREFULL symbol, which
?S: indicates to the C program that any scoreboard kept by the program
?S: should be kept on the basis of the user's full name as opposed to
?S: the user's login name.
?S:.
?C:SCOREFULL:
?C: This
 symbol, if defined, indicates that any scoreboard kept by the
?C: program should be kept on the basis of the user's full name as opposed
?C: to the user's login name.  If the user can change his full name he
?C: can enter multiple scores if this is defined.
?C:.
?H:#$d_scorfl SCOREFULL /**/
?H:.
?LINT:set d_scorfl
: see how they want the scoreboard kept
case "$d_scorfl" in
"$define") dflt=y ;;
*) dflt=n ;;
esac
case "$nametype" in
other) val="$undef" ;;
*)
 $cat <<'EOM'

The scoreboard can be kept with one score per login name, or one score per full
name.  If users can change their full name, or if there is more than one person
on your system with the same full name, you should keep the score by login name
(the full name is still printed).

EOM
 rp='Do you want the scoreboard kept by full name?'
 . ./myread
 case "$ans" in
 y*) val="$define" ;;
 *) val="$undef" ;;
 esac
 ;;
esac
set d_scorfl
eval $setvar

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-
```

5.34.0/dist/U/d_scorfl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtoll: Inlibc d_longlong Compile cat run
?MAKE: -pick add $@ %<
?S:d_strtoll:
?S: This variable conditionally defines the HAS_STRTOLL symbol, which
?S: indicates to the C program that the strtoll() routine is available.
?S:.
?C:HAS_STRTOLL:
?C: This symbol, if defined, indicates that the strtoll routine is
?C: available to convert strings to long longs.
?C:.
?H:#$d_strtoll HAS_STRTOLL  /**/
?H:.
?T:yyy
?F:!try
: see if strtoll exists
set strtoll d_strtoll
eval $inlibc

case "$d_longlong-$d_strtoll" in
"$define-$define")
 $cat <<EOM
Checking whether your strtoll() works okay...
EOM
 $cat >try.c <<'EOCP'
#include <errno.h>
#ifdef __hpux
#define strtoll __strtoll
#endif
#ifdef __EMX__
#define strtoll
 _strtoll
#endif
#include <stdio.h>
#include <stdlib.h>
static int bad = 0;
void check(const char *s, long long ell, int een) {
 long long gll;
 errno = 0;
```

```
 gll = strtoll(s, 0, 10);
 if (!((gll == ell) && (errno == een)))
  bad++;
}
int main() {
 check(" 1",                          1LL, 0);
 check(" 0",                          0LL, 0);
 check("-1",                         -1LL, 0);
 check("-9223372036854775808", -9223372036854775808LL, 0);
 check("-9223372036854775808", -9223372036854775808LL, 0);
 check(" 9223372036854775807",  9223372036854775807LL, 0);
 check("-9223372036854775808", -9223372036854775808LL, 0);
 check(" 9223372036854775808",  9223372036854775807LL, ERANGE);
 check("-9223372036854775809", -9223372036854775808LL, ERANGE);
 if (!bad)
  printf("ok\n");
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  ok) echo "Your strtoll() seems to be working okay." ;;
  *) cat <<EOM >&4
Your strtoll() doesn't seem
 to be working okay.
EOM
     d_strtoll="$undef"
     ;;
  esac
 else
  echo "(I can't seem to compile the test program--assuming it doesn't)"
  d_strtoll="$undef"
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strtoll.U
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```
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?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cf_email.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:05:06  ram
?RCS: patch16: created
?RCS:
?RCS:
?MAKE:cf_email: cat cf_by test myhostname mydomain Oldconfig Myread
?MAKE: -pick add $@ %<
?S:cf_email:
?S: Electronic mail address of the person who ran Configure. This can be
?S: used by units that require the user's e-mail, like MailList.U.
?S:.
?T:cont maildomain
?LINT:extern MAILDOMAIN
: determine the e-mail address of the user who is running us
$cat <<EOM

I need to get your e-mail address
 in Internet format if possible, i.e.
something like user@host.domain. Please answer accurately since I have
no easy means to double check it. The default value provided below
is most probably close to reality but may not be valid from outside
your organization...

EOM
cont=x
while test "$cont"; do
 case "$MAILDOMAIN" in
 ")
  if $test -s /etc/mailname; then
   maildomain=`$cat /etc/mailname`
  else
   maildomain="$myhostname$mydomain"
  fi
  ;;
 *)  maildomain="$MAILDOMAIN";;
 esac
 case "$cf_email" in
 ") dflt="$cf_by@$maildomain";;
 *)  dflt="$cf_email";;
 esac
 rp='What is your e-mail address?'
 . ./myread
 cf_email="$ans"
 case "$cf_email" in
```

```
 *@*.*) cont=" ;;
 *)
  rp='Address does not look like an Internet one.  Use it anyway?'
  case "$fastread" in
  yes) dflt=y ;;
  *) dflt=n ;;
  esac
  . ./myread
  case "$ans" in
  y*) cont=" ;;
  *) echo " " ;;
  esac
  ;;
 esac
done
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/cf_email.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_asctime_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_asctime_r asctime_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_time i_systime extern_C
?MAKE: -pick add $@ %<
?S:d_asctime_r:
?S: This variable conditionally defines the HAS_ASCTIME_R symbol,
?S: which indicates to the C program that the asctime_r()
?S: routine is available.
?S:.
?S:asctime_r_proto:
?S: This variable encodes the prototype of asctime_r.
?S: It is zero if d_asctime_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_asctime_r
?S: is defined.
?S:.
?C:HAS_ASCTIME_R:
?C: This symbol, if defined, indicates that the asctime_r routine
?C: is available to asctime
 re-entrantly.
?C:.
```

```
?C:ASCTIME_R_PROTO:
?C: This symbol encodes the prototype of asctime_r.
?C: It is zero if d_asctime_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_asctime_r
?C: is defined.
?C:.
?H:#$d_asctime_r HAS_ASCTIME_R /**/
?H:#define ASCTIME_R_PROTO $asctime_r_proto /**/
?H:.
?T:try hdrs d_asctime_r_proto
: see if asctime_r exists
set asctime_r d_asctime_r
eval $inlibc
case "$d_asctime_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_time time.h $i_systime sys/time.h"
 case "$d_asctime_r_proto:$usethreads" in
 ":define") d_asctime_r_proto=define
  set d_asctime_r_proto asctime_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_asctime_r_proto" in
 define)
 case "$asctime_r_proto" in
 "|0) try='char* asctime_r(const struct tm*, char*);'
 ./protochk "$extern_C $try" $hdrs && asctime_r_proto=B_SB ;;
 esac
 case "$asctime_r_proto" in
 "|0) try='char* asctime_r(const struct tm*, char*, int);'
 ./protochk "$extern_C $try" $hdrs
 && asctime_r_proto=B_SBI ;;
 esac
 case "$asctime_r_proto" in
 "|0) try='int asctime_r(const struct tm*, char*);'
 ./protochk "$extern_C $try" $hdrs && asctime_r_proto=I_SB ;;
 esac
 case "$asctime_r_proto" in
 "|0) try='int asctime_r(const struct tm*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && asctime_r_proto=I_SBI ;;
 esac
 case "$asctime_r_proto" in
 "|0) d_asctime_r=undef
  asctime_r_proto=0
  echo "Disabling asctime_r, cannot determine prototype." >&4 ;;
 * ) case "$asctime_r_proto" in
  REENTRANT_PROTO*) ;;
  *) asctime_r_proto="REENTRANT_PROTO_$asctime_r_proto" ;;
```

```
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "asctime_r has no prototype, not using it." >&4 ;;
  esac
  d_asctime_r=undef
  asctime_r_proto=0
  ;;
 esac
 ;;
*) asctime_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_asctime_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpagsz.U,v 3.0.1.1 1994/10/29 16:13:10 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_getpagsz.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:13:10  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getpagsz: Compile Oldconfig Myread Inlibc Findhdr
?MAKE: -pick add $@ %<
?S:d_getpagsz:
?S: This variable conditionally defines HAS_GETPAGESIZE if getpagesize()
?S: is available to get the system page size.
?S:.
?C:HAS_GETPAGESIZE
 (GETPAGESIZE):
?C: This symbol, if defined, indicates that the getpagesize system call
?C: is available to get system page size, which is the granularity of
```

```
?C: many memory management calls.
?C:.
?H:#$d_getpagsz HAS_GETPAGESIZE  /**/
?H:.
?LINT:set d_getpagsz
: see if getpagesize exists
set getpagesize d_getpagsz
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_getpagsz.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_nextafter: Inlibc
?MAKE: -pick add $@ %<
?S:d_nextafter:
?S: This variable conditionally defines HAS_NEXTAFTER if nextafter()
?S: is available to return the next machine representable double from
?S: x in direction y.
?S:.
?C:HAS_NEXTAFTER:
?C: This symbol, if defined, indicates that the nextafter routine is
?C: available to return the next machine representable double from
?C: x in direction y.
?C:.
?H:#$d_nextafter HAS_NEXTAFTER  /**/
?H:.
?LINT:set d_nextafter
: see if nextafter exists
set nextafter d_nextafter
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_nextafter.U
No license file was found, but licenses were detected in source scan.

```
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```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_setlocale d_setlocale_accepts_any_locale_name d_has_C_UTF8: \
 cat Compile run rm_try i_locale i_wctype d_towupper Setvar Myread
?MAKE: -pick add $@ %<
?S:d_has_C_UTF8:
?S: This variable is set to either "true" or "false" depending on
?S: whether the compilation system supports the C.UTF-8 locale.
?S:.
?S:d_setlocale:
?S: This variable conditionally defines HAS_SETLOCALE if setlocale() is
?S: available to handle locale-specific ctype implementations.
?S:.
?S:d_setlocale_accepts_any_locale_name:
?S: This
 variable conditionally defines SETLOCALE_ACCEPTS_ANY_LOCALE_NAME
?S: if setlocale() accepts any locale name.
?S:.
?C:HAS_SETLOCALE:
?C: This symbol, if defined, indicates that the setlocale routine is
?C: available to handle locale-specific ctype implementations.
?C:.
?C:SETLOCALE_ACCEPTS_ANY_LOCALE_NAME:
?C: This symbol, if defined, indicates that the setlocale routine is
?C: available and it accepts any input locale name as valid.
?C:.
?H:#$d_setlocale HAS_SETLOCALE /**/
?H:#$d_setlocale_accepts_any_locale_name SETLOCALE_ACCEPTS_ANY_LOCALE_NAME /**/
?H:.
?F:!try
?T:LC_CTYPE c_utf8_locale
: check for setlocale function and behavior
case "$d_setlocale" in
")
$cat >&4 <<EOM

Checking to see if you have setlocale() and its behavior
EOM
$cat >try.c <<EOCP
#include <stdlib.h>
#include <string.h>
#$i_locale I_LOCALE
#ifdef I_LOCALE
#  include <locale.h>
#endif
#$i_wctype I_WCTYPE
#ifdef I_WCTYPE
#  include <wctype.h>
```

```
#endif

int main() {
   const char * invalid_name
 = "\a";   /* This is really invalid! */
   int accepts_any_locale_name = 0;
   int has_C_UTF8 = 0;
   unsigned char bad_setlocale = 255;

   /* If LC_CTYPE isn't defined the compilation will fail, and locales will be
    * disabled.  It's hard to imagine an instance where meaningful locale
    * handling could be done without LC_CTYPE */
   const char *  name = setlocale(LC_CTYPE, "C");

   if (name == NULL || strcmp(name, "C") != 0) {
       exit(bad_setlocale);
   }

   name = setlocale(LC_CTYPE, invalid_name);
   if (name != NULL) {

       /* Let it pass if it accepts the name but gives back one of the C
        * locales */
       if (strcmp(name, "C") != 0 && strcmp(name, "C.UTF-8") != 0) {
           accepts_any_locale_name = 1;
       }
   }

   name = setlocale(LC_CTYPE, "C.UTF-8");
   if (name != NULL) {
       unsigned char y_with_diaeresis = ('A' == 193) ? 0xDF : 0xFF;

#$d_towupper HAS_TOWUPPER
#ifdef HAS_TOWUPPER

       /* We assume that if
 the machine doesn't have the C99 towupper, it
        * doesn't have C.UTF-8, even if we successfully changed locales to
        * include it.  This seems safer even on platforms that didn't accept
        * the really invalid name */

       if (towupper(y_with_diaeresis) == 0x178) {
           has_C_UTF8 = 1;
       }

#endif

   }
```

```
#if 0

   /* Currently unused code to determine if LC_ALL with disparate values uses
    * category = value pairs or positional, and to determine the separator
    * between the categories.  We could add code so that if the separator were
    * > '9', we subtract 10; similarly for 'Z' and 'z', and then just about
    * every possible ASCII separator would fit in the 5 bits available in the
    * exit code.  This would not be true in EBCDIC.  And then if LC_ALL is
    * positional, we probably would want to know the order of the categories.
    * Using a file between the C program and the shell script would really be
    * require to do that
 */
#ifdef LC_ALL

   unsigned char min_separator = ' ' - 1;
   unsigned char separator = min_separator;
   int uses_name_value_pair_names = 0;

   name = setlocale(LC_ALL, "C");
   if (name == NULL || strcmp(name, "C") != 0) {
      exit(bad_setlocale);
   }

   if (has_C_UTF8) {
      char * pos;

      name = setlocale(LC_CTYPE, "C.UTF-8");
      if (name == NULL) {
         exit(bad_setlocale);
      }
      name = setlocale(LC_ALL, NULL);
      if (name == NULL) {
         exit(bad_setlocale);
      }

      pos = strstr(name, "LC_CTYPE" "=C.UTF-8");
      if (pos != NULL) {
         uses_name_value_pair_names = 1;
         if (pos == name) {
            separator = name[sizeof("LC_CTYPE=C.UTF-8") - 1];
         }
         else {
            separator = *(pos - 1);
         }
      }
      else {
         pos = strstr(name, "C.UTF-8");
```

```
        if (pos == NULL) {
            /* bad */
        }

  else if (pos == name) {
            separator = name[sizeof("C.UTF-8") - 1];
        }
        else {
            separator = *(pos - 1);
        }
      }
   }

#endif
#endif

   exit( 0 /* (separator - min_separator) << 3
       | uses_name_value_pair_names      << 2
         */
       | has_C_UTF8                      << 1
       | accepts_any_locale_name);

}
EOCP
val=
set d_setlocale
eval $setvar
case $d_setlocale in
   $undef) d_setlocale_accepts_any_locale_name="$undef"
           d_has_C_UTF8="false"
           ;;
   *) set try
      if eval $compile; then
         echo "Your system has setlocale()..." >&4
         $run ./try
         case $? in
            0) echo "and it seems sane; you don't have a C.UTF8 locale" >&4
               d_setlocale="$define"
               d_setlocale_accepts_any_locale_name="$undef"
               d_has_C_UTF8="false"
               ;;
            1) echo "and it seems sane, but accepts any
 locale name as valid" >&4
               d_setlocale="$define"
               d_setlocale_accepts_any_locale_name="$define"
               d_has_C_UTF8="false"
               ;;
            2) echo "and it seems sane; you have a C.UTF8 locale" >&4
```

```
            d_setlocale="$define"
            d_setlocale_accepts_any_locale_name="$undef"
            d_has_C_UTF8="true"
            ;;
          3) echo "and it seems sane, but accepts any locale name as valid" >&4
            d_setlocale="$define"
            d_setlocale_accepts_any_locale_name="$define"
            d_has_C_UTF8="true"
            ;;
          *) echo "but it doesn't seem to work, so we won't use it." >&4
            d_setlocale="$undef"
            d_setlocale_accepts_any_locale_name="$undef"
            d_has_C_UTF8="false"
            ;;
        esac
      else
        echo "your system does not have setlocale()"
 >&4
        d_setlocale="$undef"
        d_setlocale_accepts_any_locale_name="$undef"
        d_has_C_UTF8="false"
      fi
esac
$rm_try
;;
*) val="$d_setlocale"
  set d_setlocale
  eval $setvar
  case "$d_setlocale" in
     $undef) echo "There may be other ways to set the locale on your system, so we need to ask:" >&4
     ;;
  esac
  rp="Does your system have the C.UTF8 locale?"
  dflt=n
  . ./myread
  case "$ans" in
     [Yy]*) d_has_C_UTF8="true"
          c_utf8_locale=" or C.UTF8"
          ;;
     *)    d_has_C_UTF8="false"
          c_utf8_locale=""
          ;;
  esac
  case "$d_setlocale" in
     $define)
        rp="When you set your locale to something besides C$c_utf8_locale, does it do so, or just pretend to?" >&4
        dflt=n
        . ./myread
```

```
        case "$ans" in
            true|[Yy]*)
    d_setlocale_accepts_any_locale_name="$undef"
    ;;
  *) d_setlocale_accepts_any_locale_name="$define"

  ;;
        esac
        ;;
      *) d_setlocale_accepts_any_locale_name="$undef"
   ;;
  esac
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_setlocale.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_sqrtl: Inlibc
?MAKE: -pick add $@ %<
?S:d_sqrtl:
?S: This variable conditionally defines the HAS_SQRTL symbol, which
?S: indicates to the C program that the sqrtl() routine is available.
?S:.
?C:HAS_SQRTL:
?C: This symbol, if defined, indicates that the sqrtl routine is
?C: available to do long double square roots.
?C:.
?H:#$d_sqrtl HAS_SQRTL  /**/
?H:.
?LINT:set d_sqrtl
: see if sqrtl exists
set sqrtl d_sqrtl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sqrtl.U
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_sbrkproto: Hasproto i_unistd
?MAKE: -pick add $@ %<
?S:d_sbrkproto:
?S: This variable conditionally defines the HAS_SBRK_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the sbrk() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_SBRK_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the sbrk() function.  Otherwise, it is up
?C: to the program to supply one.  Good guesses are
?C:  extern void* sbrk(int);
?C:  extern
 void* sbrk(size_t);
?C:.
?H:#$d_sbrkproto HAS_SBRK_PROTO /**/
?H:.
?LINT:set d_sbrkproto
: see if prototype for sbrk is available
echo " "
set d_sbrkproto sbrk $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sbrkproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: contains.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: contains.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:contains: Nothing
?MAKE: -pick add $@ %<
?S:contains:
?S: This variable holds the command to do a grep with a proper return
?S: status.  On most sane systems it is simply "grep".  On insane systems
?S: it is a grep followed by a cat followed by a test.  This variable
?S: is primarily for the use of other Configure units.
?S:.
: Some
 greps do not return status, grrr.
echo "grimblepritz" >grimble
if grep blurfldyick grimble >/dev/null 2>&1 ; then
 contains=contains
elif grep grimblepritz grimble >/dev/null 2>&1 ; then
 contains=grep
else
 contains=contains
fi
rm -f grimble
: the following should work in any shell
case "$contains" in
contains*)
 echo " "
 echo "AGH!  Grep doesn't return a status.  Attempting remedial action."
 cat >contains <<'EOSS'
grep "$1" "$2" >.greptmp && cat .greptmp && test -s .greptmp
EOSS
chmod +x contains
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/contains.U
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```
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```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strerror.U,v $
?RCS: Revision 3.0.1.3  1994/05/13  15:20:27  ram
?RCS: patch27: now uses new macro support for cleaner Strerror def
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  14:58:26  ram
?RCS: patch23: renamed strerror into Strerror to protect name space (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:08:56  ram
?RCS: patch16: protected code looking for sys_errnolist[] with @if
?RCS: patch16: added default value for d_sysernlst
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:35  ram
?RCS: Baseline
 for dist 3.0 netwide release.
?RCS:
?MAKE:d_strerror d_syserrlst d_sysernlst d_strerrm: contains Csym Findhdr
?MAKE: -pick add $@ %<
?S:d_strerror:
?S: This variable conditionally defines HAS_STRERROR if strerror() is
?S: available to translate error numbers to strings.
?S:.
?S:d_syserrlst:
?S: This variable conditionally defines HAS_SYS_ERRLIST if sys_errlist[] is
?S: available to translate error numbers to strings.
?S:.
?S:d_sysernlst:
?S: This variable conditionally defines HAS_SYS_ERRNOLIST if sys_errnolist[]
?S: is available to translate error numbers to the symbolic name.
?S:.
?S:d_strerrm:
?S: This variable holds what Strerr is defined as to translate an error
?S: code condition into an error message string. It could be 'strerror'
?S: or a more complex macro emulating strrror with sys_errlist[], or the
?S: "unknown" string when both strerror and sys_errlist are missing.
?S:.
?C:HAS_STRERROR (STRERROR):
?C: This symbol, if defined, indicates that the strerror routine is
?C: available
 to translate error numbers to strings. See the writeup
?C: of Strerror() in this file before you try to define your own.
?C:.
?C:HAS_SYS_ERRLIST (SYSERRLIST):
?C: This symbol, if defined, indicates that the sys_errlist array is
?C: available to translate error numbers to strings. The extern int
?C: sys_nerr gives the size of that table.
?C:.
```

```
?C:HAS_SYS_ERRNOLIST (SYSERRNOLIST):
?C: This symbol, if defined, indicates that the sys_errnolist array is
?C: available to translate an errno code into its symbolic name (e.g.
?C: ENOENT). The extern int sys_nerrno gives the size of that table.
?C:.
?C:Strerror:
?C: This preprocessor symbol is defined as a macro if strerror() is
?C: not available to translate error numbers to strings but sys_errlist[]
?C: array is there.
?C:.
?H:#$d_strerror HAS_STRERROR  /**/
?H:#$d_syserrlst HAS_SYS_ERRLIST /**/
?H:#$d_sysernlst HAS_SYS_ERRNOLIST /**/
?H:#define Strerror(e) $d_strerrm
?H:.
?D:d_sysernlst=''
?T:xxx val
: see if strerror and/or sys_errlist[]
 exist
echo " "
if set strerror val -f d_strerror; eval $csym; $val; then
 echo 'strerror() found.' >&4
 d_strerror="$define"
 d_strerrm='strerror(e)'
 if set sys_errlist val -a d_syserrlst; eval $csym; $val; then
  echo "(You also have sys_errlist[], so we could roll our own strerror.)"
  d_syserrlst="$define"
 else
 echo "(Since you don't have sys_errlist[], sterror() is welcome.)"
  d_syserrlst="$undef"
 fi
elif xxx=`./findhdr string.h`; test "$xxx" || xxx=`./findhdr strings.h`; \
 $contains '#[  ]*define.*strerror' "$xxx" >/dev/null 2>&1; then
 echo 'strerror() found in string header.' >&4
 d_strerror="$define"
 d_strerrm='strerror(e)'
 if set sys_errlist val -a d_syserrlst; eval $csym; $val; then
  echo "(Most probably, strerror() uses sys_errlist[] for descriptions.)"
  d_syserrlst="$define"
 else
  echo "(You don't appear to have any sys_errlist[], how can this be?)"
  d_syserrlst="$undef"
 fi
elif set sys_errlist val -a d_syserrlst; eval $csym; $val; then
echo "strerror()
 not found, but you have sys_errlist[] so we'll use that." >&4
 d_strerror="$undef"
 d_syserrlst="$define"
```

```
 d_strerrm='((e)<0||(e)>=sys_nerr?"unknown":sys_errlist[e])'
else
 echo 'strerror() and sys_errlist[] NOT found.' >&4
 d_strerror="$undef"
 d_syserrlst="$undef"
 d_strerrm="'unknown'"
fi
@if d_sysernlst || HAS_SYS_ERRNOLIST
if set sys_errnolist val -a d_sysernlst; eval $csym; $val; then
 echo "(Symbolic error codes can be fetched via the sys_errnolist[] array.)"
 d_sysernlst="$define"
else
 echo "(However, I can't extract the symbolic error code out of errno.)"
 d_sysernlst="$undef"
fi
@end
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strerror.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: so.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:30:04  ram
?RCS: patch36: now tells user how he can suppress shared lib lookup (ADO)
?RCS: patch36: removed echo at the top, since it's now in the here-doc (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:07:02  ram
?RCS: patch30: created
?RCS:
?X:
?X: This unit computes the shared-object / shared-lib extension
?X:
?MAKE:so: test libpth Loc Myread Oldconfig cat
?MAKE: -pick add $@ %<
?S:so:
?S: This variable holds the extension used to identify
```

```
 shared libraries
?S: (also known as shared objects) on the system. Usually set to 'so'.
?S:.
?T: xxx
: compute shared library extension
case "$so" in
")
 if xxx=`./loc libc.sl X $libpth`; $test -f "$xxx"; then
  dflt='sl'
 else
  dflt='so'
 fi
 ;;
*) dflt="$so";;
esac
$cat <<EOM

On some systems, shared libraries may be available.  Answer 'none' if
you want to suppress searching of shared libraries for the remainder
of this configuration.

EOM
rp='What is the file extension used for shared libraries?'
. ./myread
so="$ans"
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/so.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isinfl: Inlibc
?MAKE: -pick add $@ %<
?S:d_isinfl:
?S: This variable conditionally defines the HAS_ISINFL symbol, which
?S: indicates to the C program that the isinfl() routine is available.
?S:.
?C:HAS_ISINFL:
?C: This symbol, if defined, indicates that the isinfl routine is
?C: available to check whether a long double is an infinity.
?C:.
```

```
?H:#$d_isinfl HAS_ISINFL  /**/
?H:.
?LINT:set d_isinfl
: see if isinfl exists
set isinfl d_isinfl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_isinfl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: models.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:13:17  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:02:39  ram
?RCS: patch6: added default for large
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:models split small medium large huge: test cat Myread sysman Oldconfig \
 Loc Warn contains rm
?MAKE: -pick add $@ %<
?S:models:
?S: This variable contains the list of memory models supported by
 this
?S: system.  Possible component values are none, split, unsplit, small,
?S: medium, large, and huge.  The component values are space separated.
?S:.
?S:split:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program that will run in separate I and D space, for those
?S: machines that support separation of instruction and data space.  It is
?S: up to the Makefile to use this.
?S:.
?S:small:
```

```
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program running with a small memory model.  It is up to
?S: the Makefile to use this.
?S:.
?S:medium:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program running with a medium memory model.  If the
?S: medium model is not supported, contains the flag to produce large
?S: model programs.  It is up to the Makefile to use this.
?S:.
?S:large:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to
 produce a program running with a large memory model.  It is up to
?S: the Makefile to use this.
?S:.
?S:huge:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program running with a huge memory model.  If the
?S: huge model is not supported, contains the flag to produce large
?S: model programs.  It is up to the Makefile to use this.
?S:.
?T:unsplit tans modelcc
?F:!pdp11
?D:large=''
?LINT:extern cc
: see what memory models we can support
case "$models" in
'')
?X: We may not use Cppsym or we get a circular dependency through cc.
?X: But this should work regardless of which cc we eventually use.
 $cat >pdp11.c <<'EOP'
int main() {
#ifdef pdp11
 exit(0);
#else
 exit(1);
#endif
}
EOP
?X: Run cc in a subshell in case they don't have a 'cc' command.
?X: Presumably they do have gcc or something.
 case "$cc" in
 '') modelcc="$cc" ;;
 *) modelcc="cc" ;;
 esac
 ( $modelcc -o pdp11 pdp11.c ) >/dev/null 2>&1
 if $test -f pdp11 && ./pdp11 2>/dev/null;
```

```
 then
  dflt='unsplit split'
 else
  tans=`./loc . X /lib/small /lib/large /usr/lib/small /usr/lib/large /lib/medium /usr/lib/medium /lib/huge`
  case "$tans" in
  X) dflt='none';;
  *) if $test -d /lib/small || $test -d /usr/lib/small; then
    dflt='small'
   else
    dflt=''
   fi
   if $test -d /lib/medium || $test -d /usr/lib/medium; then
    dflt="$dflt medium"
   fi
   if $test -d /lib/large || $test -d /usr/lib/large; then
    dflt="$dflt large"
   fi
   if $test -d /lib/huge || $test -d /usr/lib/huge; then
    dflt="$dflt huge"
   fi
  esac
 fi;;
*) dflt="$models";;
esac
$cat <<EOM

Some systems have different model sizes.  On most systems they are called
small, medium, large, and huge.  On the PDP11 they are called unsplit and
split.  If your system doesn't support different memory models, say "none".
If you wish to force everything to one memory model, say "none" here and
put the appropriate flags later when it asks you for other cc and ld flags.
Venix systems may wish
 to put "none" and let the compiler figure things out.
(In the following question multiple model names should be space separated.)

The default for most systems is "none".

EOM
rp="Which memory models are supported?"
. ./myread
models="$ans"

case "$models" in
none)
 small=''
 medium=''
 large=''
 huge=''
```

```
 unsplit="
 split="
 ;;
*split)
 case "$split" in
 ") if $contains '\-i' $sysman/ld.1 >/dev/null 2>&1 || \
    $contains '\-i' $sysman/cc.1 >/dev/null 2>&1; then
   dflt='-i'
  else
   dflt='none'
  fi;;
 *) dflt="$split";;
 esac
 rp="What flag indicates separate I and D space?"
 . ./myread
 tans="$ans"
 case "$tans" in
 none) tans=";;
 esac
 split="$tans"
 unsplit=";;
*large*|*small*|*medium*|*huge*)
 case "$models" in
 *large*)
  case "$large" in
  ") dflt='-Ml';;
  *) dflt="$large";;
  esac
 rp="What flag indicates large model?"
 . ./myread
 tans="$ans"
 case "$tans" in
 none) tans=";
 esac
 large="$tans";;
 *) large=";;
 esac
 case "$models" in
 *huge*) case "$huge" in
  ")
 dflt='-Mh';;
  *) dflt="$huge";;
  esac
  rp="What flag indicates huge model?"
  . ./myread
  tans="$ans"
  case "$tans" in
  none) tans=";
```

```
 esac
 huge="$tans";;
*) huge="$large";;
esac
case "$models" in
*medium*) case "$medium" in
 ") dflt='-Mm';;
 *) dflt="$medium";;
 esac
 rp="What flag indicates medium model?"
 . ./myread
 tans="$ans"
 case "$tans" in
 none) tans=";
 esac
 medium="$tans";;
*) medium="$large";;
esac
case "$models" in
*small*) case "$small" in
 ") dflt='none';;
 *) dflt="$small";;
 esac
 rp="What flag indicates small model?"
 . ./myread
 tans="$ans"
 case "$tans" in
 none) tans=";
 esac
 small="$tans";;
*) small=";;
esac
;;
*)
 ./warn "Unrecognized memory models--you may have to edit Makefile.SH"
 ;;
esac
$rm -f pdp11.* pdp11
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/models.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_raster.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_raster.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_raster rasterlib: cat test Setvar Myread Oldconfig
?MAKE: -pick add $@ %<
?S:d_raster:
?S: Conditionally defines RASTER_TEK if this is a raster tech machine.
?S:.
?S:rasterlib (d_rasterlib):
?S: Set to the needed compile flag if this is a raster tech machine.
?S: It is up to the Makefile to use this variable.
?S:.
?C:RASTER_TEK:
?C: Defined
 if this is a rastertech machine.
?C:.
?H:#$d_raster RASTER_TEK /**/
?H:.
?LINT:set d_raster
: See if this is a raster tech machine.
val="$undef"
rasterlib="
if $test -r /dev/mirage; then
 $cat <<'EOM'

You seem to have a mirage device... this is normally associated with a raster
technologies graphics workstation. If this is right, you may want to use raster
tech in this program.

EOM
 dflt=y
 case "$d_raster" in
 "$undef") dflt=n;;
 esac
 rp='Use raster tech?'
 . ./myread
 case "$ans" in
 y*) val="$define";;
 esac
fi
set d_raster
```

```
eval $setvar

case "$d_raster" in
"$define") rasterlib='-lphigs';;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_raster.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: html1dir.U,v $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: html1dir.U,v $
?RCS:
?MAKE:html1dir html1direxp installhtml1dir: cat Loc Myread \
 spackage test Getfile Setprefixvar Prefixit Prefixup
?MAKE: -pick add $@ %<
?Y:TOP
?D:html1dir=''
?S:html1dir:
?S: This variable contains the name of the directory in which html
?S: source pages are to be put.  This directory is for pages
?S: that describe whole programs, not libraries or modules.  It
?S: is intended to correspond roughly to section 1 of the Unix
?S: manuals.
?S:.
?D:html1direxp=''
?S:html1direxp:
?S: This
 variable is the same as the html1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installhtml1dir=''
?S:installhtml1dir:
?S: This variable is really the same as html1direxp, unless you are
?S: using a different installprefix.  For extra portability, you
?S: should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
```

```
?LINT:set html1direxp
?LINT:set installhtml1dir
: determine where html pages for programs go
set html1dir html1dir none
eval $prefixit
$cat <<EOM

If you wish to install html files for programs in $spackage, indicate
the appropriate directory here.  To skip installing html files,
answer "none".
EOM
case "$html1dir" in
"|none|$undef|' ') dflt=none ;;
*) dflt=$html1dir ;;
esac
fn=dn+~
rp="Directory for the main $spackage html pages?"
. ./getfile
prefixvar=html1dir
. ./setprefixvar
: Use ' ' for none so value is preserved next time through Configure
$test X"$html1dir" = "X" && html1dir=' '
```

Found
 in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/html1dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_setitimer: Inlibc
?MAKE: -pick add $@ %<
?S:d_setitimer:
?S: This variable conditionally defines the HAS_SETITIMER symbol, which
?S: indicates to the C program that the setitimer() routine is available.
?S:.
?C:HAS_SETITIMER:
?C: This symbol, if defined, indicates that the setitimer routine is
?C: available to set interval timers.
?C:.
?H:#$d_setitimer HAS_SETITIMER  /**/
?H:.
```

```
?LINT:set d_setitimer
: see if setitimer exists
set setitimer d_setitimer
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_setitimer.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: usenm.U,v 3.0.1.1 1997/02/28 16:26:40 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: usenm.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:26:40  ram
?RCS: patch61: don't use nm with the GNU C library
?RCS: patch61: added support for Linux shared libs
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:usenm runnm nm_opt nm_so_opt: cat test Myread Oldconfig myuname grep \
 nm d_gnulibc osname egrep rsrc
?MAKE: -pick add $@ %<
?S:usenm:
?S: This variable contains 'true' or 'false' depending
 whether the
?S: nm extraction is wanted or not.
?S:.
?S:runnm:
?S: This variable contains 'true' or 'false' depending whether the
?S: nm extraction should be performed or not, according to the value
?S: of usenm and the flags on the Configure command line.
?S:.
?S:nm_opt:
?S: This variable holds the options that may be necessary for nm.
?S:.
?S:nm_so_opt:
?S: This variable holds the options that may be necessary for nm
?S: to work on a shared library but that can not be used on an
?S: archive library.  Currently, this is only used by Linux, where
```

```
?S: nm --dynamic is *required* to get symbols from an ELF library which
?S: has been stripped, but nm --dynamic is *fatal* on an archive library.
?S: Maybe Linux should just always set usenm=false.
?S:.
: see if nm is to be used to determine whether a symbol is defined or not
?X: If there is enough inquiries, it might be worth to wait for the nm
?X: extraction. Otherwise, the C compilations might be a better deal.
?X:
?X: Don't bother if we're
 using GNU libc -- skimo
?LINT:extern PASE
case "$usenm" in
")
 dflt="
 case "$d_gnulibc" in
 "$define")
  echo " "
  echo "nm probably won't work on the GNU C Library." >&4
  dflt=n
  ;;
 esac
 case "$dflt" in
 ")
  if $test "$osname" = aix -a "X$PASE" != "Xdefine" -a ! -f /lib/syscalls.exp; then
   echo " "
   echo "Whoops!  This is an AIX system without /lib/syscalls.exp!" >&4
   echo "'nm' won't be sufficient on this system." >&4
   dflt=n
  fi
  ;;
 esac
 case "$dflt" in
 ") dflt=`$egrep 'inlibc|csym' $rsrc/Configure | wc -l 2>/dev/null`
  if $test $dflt -gt 20; then
   dflt=y
  else
   dflt=n
  fi
  ;;
 esac
 ;;
*)
 case "$usenm" in
 true|$define) dflt=y;;
 *) dflt=n;;
 esac
 ;;
esac
```

```
$cat <<EOM

I can use $nm to extract the symbols from your C libraries. This
is a time consuming task which may generate huge output on the disk (up
to 3 megabytes) but that should make the symbols extraction faster. The
alternative is to skip the 'nm' extraction part and to compile a small
test
 program instead to determine whether each symbol is present. If
you have a fast C compiler and/or if your 'nm' output cannot be parsed,
this may be the best solution.

You probably shouldn't let me use 'nm' if you are using the GNU C Library.

EOM
rp="Shall I use $nm to extract C symbols from the libraries?"
. ./myread
case "$ans" in
[Nn]*) usenm=false;;
*) usenm=true;;
esac

?X: Name extraction is to be run if 'nm' usage is wanted and if no -r flag
?X: was provided to configure (in which case we simply re-use the previous
?X: values).
runnm=$usenm
case "$reuseval" in
true) runnm=false;;
esac

: nm options which may be necessary
case "$nm_opt" in
") if $test -f /mach_boot; then
  nm_opt=" # Mach
 elif $test -d /usr/ccs/lib; then
  nm_opt='-p' # Solaris (and SunOS?)
 elif $test -f /dgux; then
  nm_opt='-p' # DG-UX
 elif $test -f /lib64/rld; then
  nm_opt='-p' # 64-bit Irix
 else
  nm_opt="
 fi;;
esac

: nm options which may be necessary for shared libraries but illegal
: for archive
 libraries.  Thank you, Linux.
case "$nm_so_opt" in
```

```
") case "$myuname" in
 *linux*|gnu*)
  if $nm --help | $grep 'dynamic' > /dev/null 2>&1; then
   nm_so_opt='--dynamic'
  fi
  ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/usenm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_poll.U 15 2006-08-30 18:21:51Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_poll.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:38:17  ram
?RCS: patch61: mention that <poll.h> can be included if HAS_POLL defined
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:26:31  ram
?RCS: patch45: created
?RCS:
?MAKE:d_poll: Inlibc
?MAKE: -pick add $@ %<
?S:d_poll:
?S: This variable conditionally defines the HAS_POLL symbol, which
?S: indicates to the C program that the poll() routine is available
?S: to poll active file descriptors.
?S:.
?C:HAS_POLL
 :
?C: This symbol, if defined, indicates that the poll routine is
?C: available to poll active file descriptors.  Please check I_POLL and
?C: I_SYS_POLL to know which header should be included as well.
?C:.
?H:#$d_poll HAS_POLL  /**/
?H:.
?LINT:set d_poll
```

```
: see if poll exists
set poll d_poll
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_poll.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: scriptdir.U,v 3.1 1999/07/09 18:20:13 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: scriptdir.U,v $
?RCS: Revision 3.1  1999/07/09 18:20:13  doughera
?RCS: Updated for installprefix
?RCS:
?RCS: Revision 3.0.1.3  1995/09/25  09:17:15  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:46:13  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:32:04  ram
?RCS: patch32: now uses installation prefix
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:09:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:scriptdir scriptdirexp installscript: cat test Getfile Loc \
 Oldconfig +bin Prefixit Setprefixvar prefixexp Prefixup
?MAKE: -pick add $@ %<
?Y:TOP
?D:scriptdir=''
?S:scriptdir:
?S: This variable holds the name of the directory in which the user wants
?S: to put publicly scripts for the package in question.  It is either
?S: the same directory as for binaries, or a special one that can be
?S: mounted across different architectures, like /usr/share. Programs
?S: must be prepared to deal with ~name expansion.
?S:.
```

```
?D:scriptdirexp="
?S:scriptdirexp:
?S: This variable is the same as scriptdir, but is filename expanded
?S: at configuration time, for programs not wanting to bother with it.
?S:.
?S:installscript:
?S: This variable is usually the same as scriptdirexp, unless you are on
?S: a system running AFS, in which case they may differ slightly. You
?S: should always use this variable
 within your makefiles for portability.
?S:.
?C:SCRIPTDIR:
?C: This symbol holds the name of the directory in which the user wants
?C: to put publicly executable scripts for the package in question.  It
?C: is often a directory that is mounted across diverse architectures.
?C: Programs must be prepared to deal with ~name expansion.
?C:.
?C:SCRIPTDIR_EXP:
?C: This is the same as SCRIPTDIR, but is filename expanded at
?C: configuration time, for use in programs not prepared to do
?C: ~name substitutions at run-time.
?C:.
?H:#define SCRIPTDIR "$scriptdir" /**/
?H:#define SCRIPTDIR_EXP "$scriptdirexp" /**/
?H:.
?T:installscriptdir
?LINT:change prefixvar
?LINT:set scriptdir
?LINT:set scriptdirexp
: determine where public executable scripts go
set scriptdir scriptdir
eval $prefixit
case "$scriptdir" in
")
 dflt="$bin"
 : guess some guesses
 $test -d /usr/share/scripts && dflt=/usr/share/scripts
 $test -d /usr/share/bin     && dflt=/usr/share/bin
 $test -d /usr/local/script  && dflt=/usr/local/script
 $test
 -d /usr/local/scripts && dflt=/usr/local/scripts
 $test -d $prefixexp/script  && dflt=$prefixexp/script
 set dflt
 eval $prefixup
 ;;
*)  dflt="$scriptdir"
 ;;
esac
```

```
$cat <<EOM

Some installations have a separate directory just for executable scripts so
that they can mount it across multiple architectures but keep the scripts in
one spot.  You might, for example, have a subdirectory of /usr/share for this.
Or you might just lump your scripts in with all your other executables.

EOM
fn=d~
rp='Where do you keep publicly executable scripts?'
. ./getfile
if $test "X$ansexp" != "X$scriptdirexp"; then
 installscript=''
fi
installscriptdir=''
prefixvar=scriptdir
. ./setprefixvar
: A little fix up for an irregularly named variable.
installscript="$installscriptdir"
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/scriptdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_usleepproto: Hasproto i_unistd
?MAKE: -pick add $@ %<
?S:d_usleepproto:
?S: This variable conditionally defines the HAS_USLEEP_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the usleep() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_USLEEP_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the usleep() function.  Otherwise, it is up
?C: to the program to supply one.  A good guess is
?C:  extern int
```

```
 usleep(useconds_t);
?C:.
?H:#$d_usleepproto HAS_USLEEP_PROTO /**/
?H:.
?LINT:set d_usleepproto
: see if prototype for usleep is available
echo " "
set d_usleepproto usleep $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_usleepproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_erfc: Inlibc
?MAKE: -pick add $@ %<
?S:d_erfc:
?S: This variable conditionally defines the HAS_ERFC symbol, which
?S: indicates to the C program that the erfc() routine is available.
?S:.
?C:HAS_ERFC:
?C: This symbol, if defined, indicates that the erfc routine is
?C: available to do the complementary error function.
?C:.
?H:#$d_erfc HAS_ERFC  /**/
?H:.
?LINT:set d_erfc
: see if erfc exists
set erfc d_erfc
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_erfc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_memmove.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
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```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memmove.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_memmove: Inlibc
?MAKE: -pick add $@ %<
?S:d_memmove:
?S: This variable conditionally defines the HAS_MEMMOVE symbol, which
?S: indicates to the C program that the memmove() routine is available
?S: to copy potentially overlapping blocks of memory.
?S:.
?C:HAS_MEMMOVE:
?C: This symbol, if defined, indicates that the memmove routine
 is available
?C: to copy potentially overlapping blocks of memory. This should be used
?C: only when HAS_SAFE_BCOPY is not defined. If neither is there, roll your
?C: own version.
?C:.
?H:#$d_memmove HAS_MEMMOVE /**/
?H:.
?LINT:set d_memmove
: see if memmove exists
set memmove d_memmove
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_memmove.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d__fwalk: Inlibc
?MAKE: -pick add $@ %<
?S:d__fwalk:
?S: This variable conditionally defines HAS__FWALK if _fwalk() is
?S: available to apply a function to all the file handles.
?S:.
```

```
?C:HAS__FWALK:
?C: This symbol, if defined, indicates that the _fwalk system call is
?C: available to apply a function to all the file handles.
?C:.
?H:#$d__fwalk HAS__FWALK  /**/
?H:.
?LINT:set d__fwalk
: see if _fwalk exists
set fwalk d__fwalk
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d__fwalk.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2000,2014 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fpclassify d_fp_classify: Inlibc cat Compile rm_try Setvar
?MAKE: -pick add $@ %<
?X:the short story is that C99 says use fpclassify.  But the story is confused
?X:by systems "partially C99" (or fully "pre C99") which either user fpclassify
?X:but with different return values, or they use fp_classify (with the expected)
?X:return values, or they use some other spelling of *fp*class* (sometimes even
?X:without the *fp* part), with yet another set(s) of return values ...
?S:d_fpclassify:
?S: This variable conditionally defines the HAS_FPCLASSIFY symbol, which
?S: indicates to the C program that the fpclassify() routine is available.
?S:.
?S:d_fp_classify:
?S: This variable conditionally defines the HAS_FP_CLASSIFY
 symbol, which
?S: indicates to the C program that the fp_classify() routine is available.
?S:.
?C:HAS_FPCLASSIFY:
?C: This symbol, if defined, indicates that the fpclassify routine is
?C: available to classify doubles.  Available for example in HP-UX.
?C: The returned values are defined in <math.h> and are
?C:
?C:   FP_NORMAL     Normalized
?C:   FP_ZERO       Zero
?C:   FP_INFINITE   Infinity
?C:   FP_SUBNORMAL  Denormalized
?C:   FP_NAN        NaN
?C:
```

```
?C:.
?C:HAS_FP_CLASSIFY:
?C: This symbol, if defined, indicates that the fp_classify routine is
?C: available to classify doubles. The values are defined in <math.h>
?C:
?C:   FP_NORMAL     Normalized
?C:   FP_ZERO       Zero
?C:   FP_INFINITE   Infinity
?C:   FP_SUBNORMAL  Denormalized
?C:   FP_NAN        NaN
?C:
?C:.
?H:#$d_fpclassify HAS_FPCLASSIFY  /**/
?H:#$d_fp_classify HAS_FP_CLASSIFY  /**/
?H:.
?LINT:set d_fpclassify
?LINT:set d_fp_classify
: check for fpclassify
?X:classified (Comment by jhi)
?X:fpclassify i_math
?X:fp_classify i_math
?X:fpclass i_math
 i_ieeefp i_fp
?X:fp_class i_math i_fp_class
?X:  No i_fp_class yet. But the systems that have
?X:  this (Tru64 and IRIX) both had <fp_class.h>
?X:class i_math
echo "Checking to see if you have fpclassify..." >&4
$cat >try.c <<EOCP
#include <math.h>
int main() { return fpclassify(1.0) == FP_NORMAL ? 0 : 1; }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have fpclassify."
else
 val="$undef"
 echo "You do not have fpclassify."
fi
$rm_try
set d_fpclassify
eval $setvar

: see if fp_classify exists
set fp_classify d_fp_classify
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fpclassify.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_syssock.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_syssock.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:36  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_syssock: Inhdr
?MAKE: -pick add $@ %<
?S:i_syssock:
?S: This variable conditionally defines the I_SYS_SOCKET symbol, and indicates
?S: whether a C program should include <sys/socket.h> before performing socket
?S: operations.
?S:.
?C:I_SYS_SOCKET:
?C: This symbol, if defined, indicates to the C program that it should
?C: include
 <sys/socket.h> before performing socket calls.
?C:.
?H:#$i_syssock I_SYS_SOCKET  /**/
?H:.
?LINT:set i_syssock
: see if this is a sys/socket.h system
set sys/socket.h i_syssock
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_syssock.U
No license file was found, but licenses were detected in source scan.

```
#  You may redistribute only under the terms of the Artistic Licence,
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/errnolist.mk

* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/makegloss
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/bindex
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/files/fixcpp
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_dosuid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Tye McQueen <tye@metronet.com> added safe setuid script checks.
?RCS:
?RCS: $Log: d_dosuid.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:33:03  ram
?RCS: patch61: moved unit to TOP via a ?Y: layout directive
?RCS: patch61: tell them /dev/fd is not about floppy disks
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:12:08  ram
?RCS: patch36: added checks for secure setuid scripts (Tye McQueen)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:55  ram
?RCS: Baseline for
 dist 3.0 netwide release.
?RCS:
?MAKE:d_dosuid d_suidsafe: cat contains ls rm test Myread Setvar \
 Oldconfig Guess package hint patchlevel
?MAKE: -pick add $@ %<
?S:d_suidsafe:
?S: This variable conditionally defines SETUID_SCRIPTS_ARE_SECURE_NOW
?S: if setuid scripts can be secure.  This test looks in /dev/fd/.
?S:.
?S:d_dosuid:
?S: This variable conditionally defines the symbol DOSUID, which
?S: tells the C program that it should insert setuid emulation code
?S: on hosts which have setuid #! scripts disabled.
?S:.
?C:SETUID_SCRIPTS_ARE_SECURE_NOW:
?C: This symbol, if defined, indicates that the bug that prevents
?C: setuid scripts from being secure is not present in this kernel.
?C:.
```

```
?C:DOSUID:
?C: This symbol, if defined, indicates that the C program should
?C: check the script that it is executing for setuid/setgid bits, and
?C: attempt to emulate setuid/setgid on systems that have disabled
?C: setuid #! scripts because the kernel can't do it securely.
?C: It is up to the package
 designer to make sure that this emulation
?C: is done securely.  Among other things, it should do an fstat on
?C: the script it just opened to make sure it really is a setuid/setgid
?C: script, it should make sure the arguments passed correspond exactly
?C: to the argument on the #! line, and it should not trust any
?C: subprocesses to which it must pass the filename rather than the
?C: file descriptor of the script to be executed.
?C:.
?H:#$d_suidsafe SETUID_SCRIPTS_ARE_SECURE_NOW /**/
?H:#$d_dosuid DOSUID  /**/
?H:.
?Y:TOP
?F:!reflect
?LINT: set d_suidsafe
: see if setuid scripts can be secure
$cat <<EOM

Some kernels have a bug that prevents setuid #! scripts from being
secure.  Some sites have disabled setuid #! scripts because of this.

First let's decide if your kernel supports secure setuid #! scripts.
(If setuid #! scripts would be secure but have been disabled anyway,
don't say that they are secure if asked.)

EOM

val="$undef"
if $test -d /dev/fd; then
 echo "#!$ls" >reflect
 chmod
 +x,u+s reflect
 ./reflect >flect 2>&1
 if $contains "/dev/fd" flect >/dev/null; then
  echo "Congratulations, your kernel has secure setuid scripts!" >&4
  val="$define"
 else
  $cat <<EOM
If you are not sure if they are secure, I can check but I'll need a
username and password different from the one you are using right now.
If you don't have such a username or don't want me to test, simply
enter 'none'.
```

```
EOM
  rp='Other username to test security of setuid scripts with?'
  dflt='none'
  . ./myread
  case "$ans" in
  n|none)
   case "$d_suidsafe" in
   ") echo "I'll assume setuid scripts are *not* secure." >&4
    dflt=n;;
   "$undef")
    echo "Well, the $hint value is *not* secure." >&4
    dflt=n;;
   *) echo "Well, the $hint value *is* secure." >&4
    dflt=y;;
   esac
   ;;
  *)
   $rm -f reflect flect
   echo "#!$ls" >reflect
   chmod +x,u+s reflect
   echo >flect
   chmod a+w flect
   echo '"su" will (probably) prompt you for '"$ans's password."
   su $ans -c './reflect
 >flect'
   if $contains "/dev/fd" flect >/dev/null; then
    echo "Okay, it looks like setuid scripts are secure." >&4
    dflt=y
   else
    echo "I don't think setuid scripts are secure." >&4
    dflt=n
   fi
   ;;
  esac
  rp='Does your kernel have *secure* setuid scripts?'
  . ./myread
  case "$ans" in
  [yY]*) val="$define";;
  *) val="$undef";;
  esac
 fi
else
 echo "I don't think setuid scripts are secure (no /dev/fd directory)." >&4
 echo "(That's for file descriptors, not floppy disks.)"
 val="$undef"
fi
set d_suidsafe
eval $setvar
```

```
$rm -f reflect flect

: now see if they want to do setuid emulation
if $test $patchlevel -lt 11; then
echo " "
val="$undef"
case "$d_suidsafe" in
"$define")
 val="$undef"
 echo "No need to emulate SUID scripts since they are secure here." >&4
 ;;
*)
 $cat <<EOM
Some systems have disabled setuid scripts, especially systems where
setuid scripts cannot be secure.  On systems where setuid scripts have
been disabled, the setuid/setgid bits on scripts are
 currently
useless.  It is possible for $package to detect those bits and emulate
setuid/setgid in a secure fashion.  This emulation will only work if
setuid scripts have been disabled in your kernel.

EOM
 case "$d_dosuid" in
 "$define") dflt=y ;;
 *) dflt=n ;;
 esac
 rp="Do you want to do setuid/setgid emulation?"
 . ./myread
 case "$ans" in
 [yY]*) val="$define";;
 *) val="$undef";;
 esac
 ;;
esac
set d_dosuid
eval $setvar
else
   case "$d_dosuid" in
 "$define")
 cat >&4 <<EOH

SUID emulation has been removed for 5.12
Please re-run Configure without -Dd_dosuid

EOH
 exit 1;
 ;;
```

```
  esac
  d_dosuid=undef
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_dosuid.U
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```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: usrinc.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:27:12  ram
?RCS: patch61: don't ask for the include path unless they are on a MIPS
?RCS:
?RCS: Revision 3.0.1.2  1995/05/12  12:24:36  ram
?RCS: patch54: ensure that ./mips always exists (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:18:31  ram
?RCS: patch23: ensure usrinc value is preserved across sessions (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:usrinc incpath mips_type:
 test cat echo n c Getfile Guess \
 Oldconfig eunicefix contains rm
?MAKE: -pick add $@ %<
?S:usrinc:
?S: This variable holds the path of the include files, which is
?S: usually /usr/include. It is mainly used by other Configure units.
?S:.
?S:incpath:
?S: This variable must preceed the normal include path to get hte
?S: right one, as in "$incpath/usr/include" or "$incpath/usr/lib".
?S: Value can be "" or "/bsd43" on mips.
?S:.
?S:mips_type:
?S: This variable holds the environment type for the mips system.
?S: Possible values are "BSD 4.3" and "System V".
```

```
?S:.
?D:usrinc='/usr/include'
?LINT:create mips
?T:xxx_prompt
?F:./mips
: What should the include directory be ?
echo " "
$echo $n "Hmm...  $c"
dflt='/usr/include'
incpath=''
?X: mips_type is used later, to add -DSYSTYPE_BSD43 to cppflags if needed.
mips_type=''
?X:
?X: Cannot put the following in Guess, or we get a circular dependency.
?X:
if $test -f /bin/mips && /bin/mips; then
 echo "Looks like a MIPS system..."
 $cat >usr.c
 <<'EOCP'
#ifdef SYSTYPE_BSD43
/bsd43
#endif
EOCP
 if cc -E usr.c > usr.out && $contains / usr.out >/dev/null 2>&1; then
  dflt='/bsd43/usr/include'
  incpath='/bsd43'
  mips_type='BSD 4.3'
 else
  mips_type='System V'
 fi
 $rm -f usr.c usr.out
 echo "and you're compiling with the $mips_type compiler and libraries."
 xxx_prompt=y
 echo "exit 0" >mips
else
 echo "Doesn't look like a MIPS system."
 xxx_prompt=n
 echo "exit 1" >mips
fi
chmod +x mips
$eunicefix mips
case "$usrinc" in
'') ;;
*) dflt="$usrinc";;
esac
case "$xxx_prompt" in
y) fn=d/
 echo " "
```

```
 rp='Where are the include files you want to use?'
 . ./getfile
 usrinc="$ans"
 ;;
*) usrinc="$dflt"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/usrinc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Csym.U,v $
?RCS: Revision 3.0.1.4  1995/07/25  13:36:29  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS: patch56: added quotes for OS/2 support
?RCS:
?RCS: Revision 3.0.1.3  1995/05/12  12:00:33  ram
?RCS: patch54: fixed C test program to bypass gcc builtin type checks (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/10/31  09:34:13  ram
?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:00:05  ram
?RCS:
 patch6: added ldflags as a conditional dependency and to compile line
?RCS: patch6: a final double quote was missing in csym variable after eval
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:Csym: Options contains libc libs runnm +cc +ccflags +ldflags rm
?MAKE: -pick add $@ %<
?LINT:define csym
?LINT:use libc
?S:csym:
?S: This shell variable is used internally by Configure to check
```

```
?S: wether a given C symbol is defined or not. A typical use is:
?S:  set symbol result [-fva] [previous]
?S:  eval $csym
?S: That will set result to 'true' if the function [-f], variable [-v]
?S: or array [-a] is defined, 'false' otherwise. If a previous value is
?S: given and the -r flag was provided on the command line, that value
?S: is reused without questioning.
?S:.
?V:csym
?T:tval tx tlook tf tdc tc
: is a C symbol defined?
csym='tlook=$1;
case "$3" in
-v) tf=libc.tmp; tc=""; tdc="";;
-a) tf=libc.tmp; tc="[0]"; tdc="[]";;
*) tlook="^$1\$";
 tf=libc.list; tc=""; tdc="()";;
esac;
tx=yes;
case "$reuseval-$4" in
true-) ;;
true-*) tx=no; eval "tval=\$$4"; case "$tval" in "") tx=yes;; esac;;
esac;
case "$tx" in
yes)
 case "$runnm" in
 true)
  if $contains $tlook $tf >/dev/null 2>&1;
  then tval=true;
  else tval=false;
  fi;;
 *)
?X:
?X: We use 'char' instead of 'int' to try to circumvent overzealous
?X: optimizing compilers using built-in prototypes for commonly used
?X: routines to complain when seeing a different external declaration. For
?X: instance, gcc 2.6.3 fails if we use 'int' and we attempt a test against
?X: memcpy() on machines where sizeof(int) == sizeof(char *) (the usual return
?X: type), the compiler assuming it's a built-in declaration given that the
?X: returned size matches. At least with 'char' we are safe! -- RAM, for ADO
?X:
?X: Let's thank GNU cc for making our lifes so easy! :-)
?X: (An alternative for the future would be to use our knowledge about gcc
?X: to force a -fno-builtin option in the
 compile test, in case the 'char'
?X: trick is obsoleted by future gcc releases). -- RAM
?X:
?X: Lastly, gcc 3.4 otimizes &missing == 0 away, so we use + 2 instead now.
```

```
?X: The GNU folks like to do weird things, don't they? -- RAM, 2004-06-05
?X:
  echo "extern char $1$tdc; int main() { return &$1$tc + 2; }" > t.c;
  if $cc $ccflags $ldflags -o t t.c $libs >/dev/null 2>&1;
  then tval=true;
  else tval=false;
  fi;
  $rm -f t t.c;;
 esac;;
*)
 case "$tval" in
 $define) tval=true;;
 *) tval=false;;
 esac;;
esac;
eval "$2=$tval"'
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Csym.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_ndbm.U,v 3.0.1.1 1995/05/12 12:16:53 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: i_ndbm.U,v $
?RCS: Revision 3.0.1.1  1995/05/12  12:16:53  ram
?RCS: patch54: made more robust by checking both header and lib (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:23  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_ndbm i_gdbmndbm i_gdbm_ndbm d_ndbm d_ndbm_h_uses_prototypes \
 d_gdbmndbm_h_uses_prototypes d_gdbm_ndbm_h_uses_prototypes: \
    Inhdr Inlibc Setvar test d_cplusplus extern_C echo Protochk
?MAKE: -pick add $@ %<
?S:i_ndbm:
?S: This
 variable conditionally defines the I_NDBM symbol, which
?S: indicates to the C program that <ndbm.h> exists and should
?S: be included.
```

?S:.
?C:I_NDBM:
?C: This symbol, if defined, indicates that <ndbm.h> exists and should
?C: be included.
?C:.
?S:i_gdbmndbm:
?S: This variable conditionally defines the I_GDBMNDBM symbol, which
?S: indicates to the C program that <gdbm/ndbm.h> exists and should
?S: be included. This was the location of the ndbm.h compatibility file
?S: in RedHat 7.1.
?S:.
?C:I_GDBMNDBM:
?C: This symbol, if defined, indicates that <gdbm/ndbm.h> exists and should
?C: be included. This was the location of the ndbm.h compatibility file
?C: in RedHat 7.1.
?C:.
?S:i_gdbm_ndbm:
?S: This variable conditionally defines the I_GDBM_NDBM symbol, which
?S: indicates to the C program that <gdbm-ndbm.h> exists and should
?S: be included. This is the location of the ndbm.h compatibility file
?S: in Debian 4.0.
?S:.
?C:I_GDBM_NDBM:
?C: This symbol, if defined, indicates
 that <gdbm-ndbm.h> exists and should
?C: be included. This is the location of the ndbm.h compatibility file
?C: in Debian 4.0.
?C:.
?S:d_ndbm:
?S: This variable conditionally defines the HAS_NDBM symbol, which
?S: indicates that both the ndbm.h include file and an appropriate ndbm
?S: library exist. Consult the different i_*ndbm variables
?S: to find out the actual include location. Sometimes, a system has the
?S: header file but not the library. This variable will only be set if
?S: the system has both.
?S:.
?C:HAS_NDBM:
?C: This symbol, if defined, indicates that some form of ndbm.h or compatibility
?C: include exists, along with the appropriate library.
?C:.
?S:d_ndbm_h_uses_prototypes:
?S: This variable conditionally defines the NDBM_H_USES_PROTOTYPES symbol,
?S: which indicates that the ndbm.h include file uses real ANSI C
?S: prototypes instead of K&R style function declarations. K&R style
?S: declarations are unsupported in C++, so the include file requires
?S: special handling
 when using a C++ compiler and this variable is
?S: undefined. Consult the different d_*ndbm_h_uses_prototypes variables

```
?S: to get the same information for alternative ndbm.h include files.
?S:.
?C:NDBM_H_USES_PROTOTYPES:
?C: This symbol, if defined, indicates that <ndbm.h> uses real ANSI C
?C: prototypes instead of K&R style function declarations without any
?C: parameter information. While ANSI C prototypes are supported in C++,
?C: K&R style function declarations will yield errors.
?C:.
?S:d_gdbmndbm_h_uses_prototypes:
?S: This variable conditionally defines the NDBM_H_USES_PROTOTYPES symbol,
?S: which indicates that the gdbm/ndbm.h include file uses real ANSI C
?S: prototypes instead of K&R style function declarations. K&R style
?S: declarations are unsupported in C++, so the include file requires
?S: special handling when using a C++ compiler and this variable is
?S: undefined. Consult the different d_*ndbm_h_uses_prototypes variables
?S: to get the same information for alternative
 ndbm.h include files.
?S:.
?C:GDBMNDBM_H_USES_PROTOTYPES:
?C: This symbol, if defined, indicates that <gdbm/ndbm.h> uses real ANSI C
?C: prototypes instead of K&R style function declarations without any
?C: parameter information. While ANSI C prototypes are supported in C++,
?C: K&R style function declarations will yield errors.
?C:.
?S:d_gdbm_ndbm_h_uses_prototypes:
?S: This variable conditionally defines the NDBM_H_USES_PROTOTYPES symbol,
?S: which indicates that the gdbm-ndbm.h include file uses real ANSI C
?S: prototypes instead of K&R style function declarations. K&R style
?S: declarations are unsupported in C++, so the include file requires
?S: special handling when using a C++ compiler and this variable is
?S: undefined. Consult the different d_*ndbm_h_uses_prototypes variables
?S: to get the same information for alternative ndbm.h include files.
?S:.
?C:GDBM_NDBM_H_USES_PROTOTYPES:
?C: This symbol, if defined, indicates that <gdbm-ndbm.h> uses real ANSI C
?C: prototypes
 instead of K&R style function declarations without any
?C: parameter information. While ANSI C prototypes are supported in C++,
?C: K&R style function declarations will yield errors.
?C:.
?H:#$i_ndbm I_NDBM /**/
?H:#$i_gdbmndbm I_GDBMNDBM /**/
?H:#$i_gdbm_ndbm I_GDBM_NDBM /**/
?H:#$d_ndbm HAS_NDBM /**/
?H:#$d_ndbm_h_uses_prototypes NDBM_H_USES_PROTOTYPES /**/
?H:#$d_gdbmndbm_h_uses_prototypes GDBMNDBM_H_USES_PROTOTYPES /**/
?H:#$d_gdbm_ndbm_h_uses_prototypes GDBM_NDBM_H_USES_PROTOTYPES /**/
?H:.
```

```
?T:d_dbm_open name hdr ihdr ndbm_hdr_protochk
?LINT:set d_ndbm d_gdbmndbm_h_uses_prototypes d_gdbm_ndbm_h_uses_prototypes
d_ndbm_h_uses_prototypes
: see if ndbm.h is available
set ndbm.h i_ndbm
eval $inhdr
: Compatibility location for RedHat 7.1
set gdbm/ndbm.h i_gdbmndbm
eval $inhdr
: Compatibility location for Debian 4.0
set gdbm-ndbm.h i_gdbm_ndbm
eval $inhdr

val="$undef"
if $test "$i_ndbm" = "$define" -o "$i_gdbmndbm" = "$define" -o "$i_gdbm_ndbm" = "$define"; then
 : see if dbm_open exists
 set
 dbm_open d_dbm_open
 eval $inlibc
 case "$d_dbm_open" in
 $undef)
  i_ndbm="$undef"
  i_gdbmndbm="$undef"
  i_gdbm_ndbm="$undef"
  echo "We won't be including <ndbm.h>"
  val="$undef"
  ;;
 *) val="$define"
    ;;
 esac
fi
set d_ndbm
eval $setvar

ndbm_hdr_protochk='name=$1; hdr=$2;
eval "ihdr=\$""i_$name";
val="$undef";
if $test "$ihdr" = "$define"; then
 $echo "Checking if your <$hdr> uses prototypes..." >&4;
 case "$d_cplusplus" in
 $define) ./protochk "$extern_C void dbm_close(DBM *);" literal "extern \"C\" {" $ihdr $hdr literal "}" &&
val="$define" ;;
 *) ./protochk "$extern_C void dbm_close(int, int);" $ihdr $hdr || val="$define" ;;
 esac;
 case "$val" in
 $define) $echo "Your <$hdr> seems to have prototypes";;
 *) $echo "Your <$hdr> does not seem to have prototypes";;
 esac;
```

```
fi;
set "d_${name}_h_uses_prototypes";
eval $setvar'

set ndbm ndbm.h
eval $ndbm_hdr_protochk
set gdbmndbm gdbm/ndbm.h
eval $ndbm_hdr_protochk
set gdbm_ndbm gdbm-ndbm.h
eval $ndbm_hdr_protochk

Found
 in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_ndbm.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Tye McQueen <tye@metronet.com>
?RCS:
?RCS: $Log: d_stdstdio.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:46:32  ram
?RCS: patch61: merged with perl5's unit
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  14:06:54  ram
?RCS: patch56: typo fix on ?C: line for FILE_bufsiz
?RCS: patch56: fixed unbalanced parenthesis (ADO)
?RCS: patch56: check whether FILE_cnt and FILE_ptr can be assigned to (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1995/05/12  12:12:11  ram
?RCS: patch54: complete rewrite by Tye McQueen
 to fit modern systems
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_stdstdio d_stdiobase stdio_ptr stdio_cnt stdio_base \
 stdio_bufsiz d_stdio_cnt_lval d_stdio_ptr_lval stdio_filbuf: cat \
 +cc +ccflags contains +ldflags +libs rm_try \
```

```
 Setvar Findhdr Oldconfig
?MAKE: -pick add $@ %<
?S:d_stdstdio:
?S: This variable conditionally defines USE_STDIO_PTR if this system
?S: has a FILE structure declaring usable _ptr and _cnt fields (or
?S: equivalent) in stdio.h.
?S:.
?S:stdio_ptr:
?S: This variable defines how, given a FILE pointer, fp, to access the
?S: _ptr field (or equivalent) of stdio.h's FILE structure.  This will
?S: be used to define the macro FILE_ptr(fp).
?S:.
?S:d_stdio_ptr_lval:
?S: This variable conditionally defines STDIO_PTR_LVALUE if the
?S: FILE_ptr macro can be used as an lvalue.
?S:.
?S:stdio_cnt:
?S: This variable defines how, given a FILE pointer, fp, to access the
?S: _cnt field (or equivalent) of
 stdio.h's FILE structure.  This will
?S: be used to define the macro FILE_cnt(fp).
?S:.
?S:d_stdio_cnt_lval:
?S: This variable conditionally defines STDIO_CNT_LVALUE if the
?S: FILE_cnt macro can be used as an lvalue.
?S:.
?S:stdio_filbuf:
?S: This variable defines how, given a FILE pointer, fp, to tell
?S: stdio to refill it's internal buffers (?).  This will
?S: be used to define the macro FILE_filbuf(fp).
?S:.
?S:d_stdiobase:
?S: This variable conditionally defines USE_STDIO_BASE if this system
?S: has a FILE structure declaring a usable _base field (or equivalent)
?S: in stdio.h.
?S:.
?S:stdio_base:
?S: This variable defines how, given a FILE pointer, fp, to access the
?S: _base field (or equivalent) of stdio.h's FILE structure.  This will
?S: be used to define the macro FILE_base(fp).
?S:.
?S:stdio_bufsiz:
?S: This variable defines how, given a FILE pointer, fp, to determine
?S: the number of bytes store in the I/O buffer pointer to by the
?S: _base field (or equivalent) of stdio.h's
 FILE structure.  This will
?S: be used to define the macro FILE_bufsiz(fp).
?S:.
```

```
?C:USE_STDIO_PTR ~ d_stdstdio (USE_STD_STDIO STDSTDIO):
?C: This symbol is defined if the _ptr and _cnt fields (or similar)
?C: of the stdio FILE structure can be used to access the stdio buffer
?C: for a file handle.  If this is defined, then the FILE_ptr(fp)
?C: and FILE_cnt(fp) macros will also be defined and should be used
?C: to access these fields.
?C:.
?C:FILE_ptr:
?C: This macro is used to access the _ptr field (or equivalent) of the
?C: FILE structure pointed to by its argument. This macro will always be
?C: defined if USE_STDIO_PTR is defined.
?C:.
?C:STDIO_PTR_LVALUE:
?C: This symbol is defined if the FILE_ptr macro can be used as an
?C: lvalue.
?C:.
?C:FILE_cnt:
?C: This macro is used to access the _cnt field (or equivalent) of the
?C: FILE structure pointed to by its argument. This macro will always be
?C: defined if USE_STDIO_PTR is defined.
?C:.
?C:STDIO_CNT_LVALUE:
?C: This symbol is defined
 if the FILE_cnt macro can be used as an
?C: lvalue.
?C:.
?C:FILE_filbuf:
?C: This macro is used to access the internal stdio _filbuf function
?C: (or equivalent), if STDIO_CNT_LVALUE and STDIO_PTR_LVALUE
?C: are defined.  It is typically either _filbuf or __filbuf.
?C: This macro will only be defined if both STDIO_CNT_LVALUE and
?C: STDIO_PTR_LVALUE are defined.
?C:.
?H:?d_stdstdio:#$d_stdstdio USE_STDIO_PTR  /**/
?H:?d_stdstdio:#ifdef USE_STDIO_PTR
?H:#define FILE_ptr(fp) $stdio_ptr
?H:#$d_stdio_ptr_lval STDIO_PTR_LVALUE   /**/
?H:#define FILE_cnt(fp) $stdio_cnt
?H:#$d_stdio_cnt_lval STDIO_CNT_LVALUE   /**/
?H:?d_stdstdio:#if defined(STDIO_PTR_LVALUE) && defined(STDIO_CNT_LVALUE)
?H:#define FILE_filbuf(fp) $stdio_filbuf   /**/
?H:?d_stdstdio:#endif
?H:?d_stdstdio:#endif
?H:.
?W:d_stdstdio:FILE_ptr FILE_cnt FILE_filbuf
?C:USE_STDIO_BASE ~ d_stdiobase:
?C: This symbol is defined if the _base field (or similar) of the
?C: stdio FILE structure can be used to access the stdio buffer
```

```
 for
?C: a file handle.  If this is defined, then the FILE_base(fp) macro
?C: will also be defined and should be used to access this field.
?C: Also, the FILE_bufsiz(fp) macro will be defined and should be used
?C: to determine the number of bytes in the buffer.  USE_STDIO_BASE
?C: will never be defined unless USE_STDIO_PTR is.
?C:.
?C:FILE_base:
?C: This macro is used to access the _base field (or equivalent) of the
?C: FILE structure pointed to by its argument. This macro will always be
?C: defined if USE_STDIO_BASE is defined.
?C:.
?C:FILE_bufsiz:
?C: This macro is used to determine the number of bytes in the I/O
?C: buffer pointed to by _base field (or equivalent) of the FILE
?C: structure pointed to its argument. This macro will always be defined
?C: if USE_STDIO_BASE is defined.
?C:.
?H:?d_stdiobase:#$d_stdiobase USE_STDIO_BASE  /**/
?H:?d_stdiobase:#ifdef USE_STDIO_BASE
?H:#define FILE_base(fp) $stdio_base
?H:#define FILE_bufsiz(fp) $stdio_bufsiz
?H:?d_stdiobase:#endif
?H:.
?W:d_stdiobase:FILE_base
 FILE_bufsiz
?LINT:set d_stdstdio d_stdiobase
?T:ptr_lval cnt_lval filbuf xxx
?F:!try
: see if _ptr and _cnt from stdio act std
echo " "
if $contains '_IO_fpos_t' `./findhdr stdio.h` >/dev/null 2>&1 ; then
 echo "(Looks like you have stdio.h from Linux.)"
 case "$stdio_ptr" in
 ") stdio_ptr='((fp)->_IO_read_ptr)'
  ptr_lval=$define
  ;;
 *) ptr_lval=$d_stdio_ptr_lval;;
 esac
 case "$stdio_cnt" in
 ") stdio_cnt='((fp)->_IO_read_end - (fp)->_IO_read_ptr)'
  cnt_lval=$undef
  ;;
 *) cnt_lval=$d_stdio_cnt_lval;;
 esac
 case "$stdio_base" in
 ") stdio_base='((fp)->_IO_read_base)';;
 esac
```

```
 case "$stdio_bufsiz" in
 ") stdio_bufsiz='((fp)->_IO_read_end - (fp)->_IO_read_base)';;
 esac
else
 case "$stdio_ptr" in
 ") stdio_ptr='((fp)->_ptr)'
  ptr_lval=$define
  ;;
 *) ptr_lval=$d_stdio_ptr_lval;;
 esac
 case "$stdio_cnt" in
 ") stdio_cnt='((fp)->_cnt)'
  cnt_lval=$define
  ;;
 *) cnt_lval=$d_stdio_cnt_lval;;
 esac
 case "$stdio_base" in
 ") stdio_base='((fp)->_base)';;
 esac
 case
 "$stdio_bufsiz" in
 ") stdio_bufsiz='((fp)->_cnt + (fp)->_ptr - (fp)->_base)';;
 esac
fi
: test whether _ptr and _cnt really work
echo "Checking how std your stdio is..." >&4
$cat >try.c <<EOP
#include <stdio.h>
#define FILE_ptr(fp) $stdio_ptr
#define FILE_cnt(fp) $stdio_cnt
int main() {
 FILE *fp = fopen("try.c", "r");
 char c = getc(fp);
 if (
  18 <= FILE_cnt(fp) &&
  strncmp(FILE_ptr(fp), "include <stdio.h>\n", 18) == 0
 )
  exit(0);
 exit(1);
}
EOP
val="$undef"
if $cc $ccflags $ldflags -o try try.c $libs >/dev/null 2>&1; then
 if ./try; then
  echo "Your stdio acts pretty std."
  val="$define"
 else
  echo "Your stdio isn't very std."
```

```
 fi
else
 echo "Your stdio doesn't appear very std."
fi
$rm_try
set d_stdstdio
eval $setvar

@if STDIO_PTR_LVALUE || d_stdio_ptr_lval
: Can _ptr be used as an lvalue?
?X: Only makes sense if we have a known stdio implementation.
case "$d_stdstdio$ptr_lval" in
$define$define) val=$define ;;
*) val=$undef ;;
esac
set d_stdio_ptr_lval
eval
 $setvar

@end
@if STDIO_CNT_LVALUE || d_stdio_cnt_lval
: Can _cnt be used as an lvalue?
?X: Only makes sense if we have a known stdio implementation.
case "$d_stdstdio$cnt_lval" in
$define$define) val=$define ;;
*) val=$undef ;;
esac
set d_stdio_cnt_lval
eval $setvar

@end
@if FILE_filbuf
: How to access the stdio _filbuf or __filbuf function.
: If this fails, check how the getc macro in stdio.h works.
case "${d_stdio_ptr_lval}${d_stdio_cnt_lval}" in
${define}${define})
 : Try hint value, if any, then _filbuf, __filbuf, _fill, then punt.
 : _fill is for OS/2.
 xxx='notok'
 for filbuf in $stdio_filbuf '_filbuf(fp)' '__filbuf(fp) ' '_fill(fp)' ; do
  $cat >try.c <<EOP
#include <stdio.h>
#define FILE_ptr(fp) $stdio_ptr
#define FILE_cnt(fp) $stdio_cnt
#define FILE_filbuf(fp) $filbuf
int main() {
 FILE *fp = fopen("try.c", "r");
 int c;
```

```
 c = getc(fp);
 c = FILE_filbuf(fp);  /* Just looking for linker errors.*/
 exit(0);
}
EOP
  if $cc $ccflags $ldflags -o try try.c $libs >/dev/null 2>&1 &&
 ./try; then
   echo "Your stdio appears to use $filbuf"
   stdio_filbuf="$filbuf"
   xxx='ok'
   break
  else
   echo "Hmm.  $filbuf doesn't seem to work."
  fi
  $rm_try
 done
 case "$xxx" in
 notok) echo "I can't figure out how to access _filbuf"
   echo "I'll just have to work around it."
   d_stdio_ptr_lval="$undef"
   d_stdio_cnt_lval="$undef"
   ;;
 esac
 ;;
esac
@end
@if d_stdiobase || USE_STDIO_BASE || FILE_base || FILE_bufsiz
: see if _base is also standard
val="$undef"
case "$d_stdstdio" in
$define)
 $cat >try.c <<EOP
#include <stdio.h>
#define FILE_base(fp) $stdio_base
#define FILE_bufsiz(fp) $stdio_bufsiz
int main() {
 FILE *fp = fopen("try.c", "r");
 char c = getc(fp);
 if (
  19 <= FILE_bufsiz(fp) &&
  strncmp(FILE_base(fp), "#include <stdio.h>\n", 19) == 0
 )
  exit(0);
 exit(1);
}
EOP
 if $cc $ccflags $ldflags -o try try.c $libs > /dev/null 2>&1; then
  if ./try; then
```

```
   echo "And its _base field acts std."
   val="$define"
  else
   echo "But its _base field isn't std."
  fi
 else
  echo
 "However, it seems to be lacking the _base field."
 fi
 $rm_try
 ;;
esac
set d_stdiobase
eval $setvar

@end
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_stdstdio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2014, H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_dladdr.U,v $
?RCS:
?MAKE:d_dladdr: Inlibc
?MAKE: -pick add $@ %<
?S:d_dladdr:
?S: This variable conditionally defines the HAS_DLADDR symbol, which
?S: indicates to the C program that the dladdr() routine is available
?S: to get a stack trace.
?S:.
?C:HAS_DLADDR:
?C: This symbol, if defined, indicates that the dladdr() routine is
?C: available to query dynamic linker information for an address.
?C: The <dlfcn.h> header must be included to use this routine.
?C:.
?H:#$d_dladdr HAS_DLADDR /**/
?H:.
```

```
?LINT:set d_dladdr
:
 see if dladdr exists
set dladdr d_dladdr
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_dladdr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_munmap.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_munmap.U,v $
?RCS: Revision 3.0.1.1  1993/12/15  08:19:22  ram
?RCS: patch15: created
?RCS:
?MAKE:d_munmap: Inlibc
?MAKE: -pick add $@ %<
?S:d_munmap:
?S: This variable conditionally defines HAS_MUNMAP if munmap() is
?S: available to unmap a region mapped by mmap().
?S:.
?C:HAS_MUNMAP:
?C: This symbol, if defined, indicates that the munmap system call is
?C: available to unmap a region, usually mapped by mmap().
?C:.
?H:#$d_munmap HAS_MUNMAP  /**/
?H:.
?LINT:set
 d_munmap
: see if munmap exists
set munmap d_munmap
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_munmap.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999-2016 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_PRIfldbl sPRIfldbl d_PRIgldbl d_PRIFUldbl sPRIGUldbl d_PRIEUldbl \
 sPRIgldbl d_PRIeldbl sPRIeldbl sPRIFUldbl d_PRIGUldbl sPRIEUldbl \
 d_SCNfldbl  d_double_style_vax d_double_style_ieee \
 d_double_style_ibm d_double_style_cray d_double_has_subnormals \
 d_double_has_inf d_double_has_nan d_double_has_negative_zero \
 sSCNfldbl doublekind: \
 d_longdbl longdblsize doublesize uselongdouble test echo cat rm_try \
 Setvar Compile run i_stdlib osname gccversion ccflags
?MAKE: -pick add $@ %<
?S:doublekind:
?S: This variable, if defined, encodes the type of a double:
?S:  1 = IEEE 754 32-bit little endian,
?S:  2 = IEEE 754 32-bit big endian,
?S:  3 = IEEE 754 64-bit little endian,
?S:  4 = IEEE
 754 64-bit big endian,
?S:  5 = IEEE 754 128-bit little endian,
?S:  6 = IEEE 754 128-bit big endian,
?S:  7 = IEEE 754 64-bit mixed endian le-be,
?S:  8 = IEEE 754 64-bit mixed endian be-le,
?S:  9 = VAX 32bit little endian F float format
?S: 10 = VAX 64bit little endian D float format
?S: 11 = VAX 64bit little endian G float format
?S: 12 = IBM 32bit format
?S: 13 = IBM 64bit format
?S: 14 = Cray 64bit format
?S: -1 = unknown format.
?S:.
?S:d_PRIfldbl:
?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates that stdio has a symbol to print long doubles.
?S:.
?S:d_PRIgldbl:
?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates that stdio has a symbol to print long doubles.
?S:.
?S:d_PRIeldbl:
?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates that stdio has a symbol to print long doubles.
?S:.
?S:d_PRIFUldbl:
```

?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates
 that stdio has a symbol to print long doubles.
?S: The 'U' in the name is to separate this from d_PRIfldbl so that even
?S: case-blind systems can see the difference.
?S:.
?S:d_PRIGUldbl:
?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates that stdio has a symbol to print long doubles.
?S: The 'U' in the name is to separate this from d_PRIgldbl so that even
?S: case-blind systems can see the difference.
?S:.
?S:d_PRIEUldbl:
?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates that stdio has a symbol to print long doubles.
?S: The 'U' in the name is to separate this from d_PRIeldbl so that even
?S: case-blind systems can see the difference.
?S:.
?S:d_SCNfldbl:
?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates that stdio has a symbol to scan long doubles.
?S:.
?S:sPRIfldbl:
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'f') for
 output.
?S:.
?S:sPRIgldbl:
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'g') for output.
?S:.
?S:sPRIeldbl:
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'e') for output.
?S:.
?S:sPRIFUldbl:
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'F') for output.
?S: The 'U' in the name is to separate this from sPRIfldbl so that even
?S: case-blind systems can see the difference.
?S:.
?S:sPRIGUldbl:
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'G') for output.
?S: The 'U' in the name is to separate this from sPRIgldbl so that even
?S: case-blind systems can see the difference.
?S:.
?S:sPRIEUldbl:

```
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'E') for output.
?S: The 'U' in the name is to separate this from sPRIeldbl so that even
?S: case-blind
 systems can see the difference.
?S:.
?S:sSCNfldbl:
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'f') for input.
?S:.
?S:d_double_has_inf:
?S: This variable conditionally defines the symbol DOUBLE_HAS_INF
?S: which indicates that the double type has an infinity.
?S:.
?S:d_double_has_nan:
?S: This variable conditionally defines the symbol DOUBLE_HAS_NAN
?S: which indicates that the double type has a not-a-number.
?S:.
?S:d_double_has_negative_zero:
?S: This variable conditionally defines the symbol DOUBLE_HAS_NEGATIVE_ZERO
?S: which indicates that the double type has a negative zero.
?S:.
?S:d_double_has_subnormals:
?S: This variable conditionally defines the symbol DOUBLE_HAS_SUBNORMALS
?S: which indicates that the double type has subnormals (denormals).
?S:.
?S:d_double_style_cray:
?S: This variable conditionally defines the symbol DOUBLE_STYLE_CRAY
?S: which indicates that the double is the 64-bit CRAY mainframe
 format.
?S:.
?S:d_double_style_ibm:
?S: This variable conditionally defines the symbol DOUBLE_STYLE_IBM,
?S: which indicates that the double is the 64-bit IBM mainframe format.
?S:.
?S:d_double_style_ieee:
?S: This variable conditionally defines the symbol DOUBLE_STYLE_IEEE,
?S: which indicates that the double is the 64-bit IEEE 754.
?S:.
?S:d_double_style_vax:
?S: This variable conditionally defines the symbol DOUBLE_STYLE_VAX,
?S: which indicates that the double is the 64-bit VAX format D or G.
?S:.
?C:PERL_PRIfldbl:
?C: This symbol, if defined, contains the string used by stdio to
?C: format long doubles (format 'f') for output.
?C:.
?C:PERL_PRIgldbl:
```

?C: This symbol, if defined, contains the string used by stdio to
?C: format long doubles (format 'g') for output.
?C:.
?C:PERL_PRIeldbl:
?C: This symbol, if defined, contains the string used by stdio to
?C: format long doubles (format 'e') for output.
?C:.
?C:PERL_PRIFldbl:
?C: This symbol, if defined, contains the string used by stdio
to
?C: format long doubles (format 'f') for output.
?C:.
?C:PERL_PRIGldbl:
?C: This symbol, if defined, contains the string used by stdio to
?C: format long doubles (format 'g') for output.
?C:.
?C:PERL_PRIEldbl:
?C: This symbol, if defined, contains the string used by stdio to
?C: format long doubles (format 'e') for output.
?C:.
?C:PERL_SCNfldbl:
?C: This symbol, if defined, contains the string used by stdio to
?C: format long doubles (format 'f') for input.
?C:.
?C:DOUBLEKIND:
?C: DOUBLEKIND will be one of
?C: DOUBLE_IS_IEEE_754_32_BIT_LITTLE_ENDIAN
?C: DOUBLE_IS_IEEE_754_32_BIT_BIG_ENDIAN
?C: DOUBLE_IS_IEEE_754_64_BIT_LITTLE_ENDIAN
?C: DOUBLE_IS_IEEE_754_64_BIT_BIG_ENDIAN
?C: DOUBLE_IS_IEEE_754_128_BIT_LITTLE_ENDIAN
?C: DOUBLE_IS_IEEE_754_128_BIT_BIG_ENDIAN
?C: DOUBLE_IS_IEEE_754_64_BIT_MIXED_ENDIAN_LE_BE
?C: DOUBLE_IS_IEEE_754_64_BIT_MIXED_ENDIAN_BE_LE
?C: DOUBLE_IS_VAX_F_FLOAT
?C: DOUBLE_IS_VAX_D_FLOAT
?C: DOUBLE_IS_VAX_G_FLOAT
?C: DOUBLE_IS_IBM_SINGLE_32_BIT
?C: DOUBLE_IS_IBM_DOUBLE_64_BIT
?C: DOUBLE_IS_CRAY_SINGLE_64_BIT
?C: DOUBLE_IS_UNKNOWN_FORMAT
?C:.
?C:DOUBLE_HAS_INF:
?C: This
symbol, if defined, indicates that the double has
?C: the infinity.
?C:.
?C:DOUBLE_HAS_NAN:

```
?C: This symbol, if defined, indicates that the double has
?C: the not-a-number.
?C:.
?C:DOUBLE_HAS_NEGATIVE_ZERO:
?C: This symbol, if defined, indicates that the double has
?C: the negative_zero.
?C:.
?C:DOUBLE_HAS_SUBNORMALS:
?C: This symbol, if defined, indicates that the double has
?C: the subnormals (denormals).
?C:.
?C:DOUBLE_STYLE_CRAY:
?C: This symbol, if defined, indicates that the double is
?C: the 64-bit CRAY mainframe format.
?C:.
?C:DOUBLE_STYLE_IBM:
?C: This symbol, if defined, indicates that the double is
?C: the 64-bit IBM mainframe format.
?C:.
?C:DOUBLE_STYLE_IEEE:
?C: This symbol, if defined, indicates that the double is
?C: the 64-bit IEEE 754.
?C:.
?C:DOUBLE_STYLE_VAX:
?C: This symbol, if defined, indicates that the double is
?C: the 64-bit VAX format D or G.
?C:.
?LINT:known
 DOUBLE_IS_IEEE_754_32_BIT_LITTLE_ENDIAN
?LINT:known DOUBLE_IS_IEEE_754_32_BIT_BIG_ENDIAN
?LINT:known DOUBLE_IS_IEEE_754_64_BIT_LITTLE_ENDIAN
?LINT:known DOUBLE_IS_IEEE_754_64_BIT_BIG_ENDIAN
?LINT:known DOUBLE_IS_IEEE_754_128_BIT_LITTLE_ENDIAN
?LINT:known DOUBLE_IS_IEEE_754_128_BIT_BIG_ENDIAN
?LINT:known DOUBLE_IS_IEEE_754_64_BIT_MIXED_ENDIAN_LE_BE
?LINT:known DOUBLE_IS_IEEE_754_64_BIT_MIXED_ENDIAN_BE_LE
?LINT:known DOUBLE_IS_VAX_F_FLOAT
?LINT:known DOUBLE_IS_VAX_D_FLOAT
?LINT:known DOUBLE_IS_VAX_G_FLOAT
?LINT:known DOUBLE_IS_IBM_SINGLE_32_BIT
?LINT:known DOUBLE_IS_IBM_DOUBLE_64_BIT
?LINT:known DOUBLE_IS_CRAY_SINGLE_64_BIT
?LINT:known DOUBLE_IS_UNKNOWN_FORMAT
?H:#define DOUBLEKIND $doublekind  /**/
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_32_BIT_LITTLE_ENDIAN 1
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_32_BIT_BIG_ENDIAN 2
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_64_BIT_LITTLE_ENDIAN 3
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_64_BIT_BIG_ENDIAN 4
```

```
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_128_BIT_LITTLE_ENDIAN 5
?H:?DOUBLEKIND:#define
 DOUBLE_IS_IEEE_754_128_BIT_BIG_ENDIAN 6
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_64_BIT_MIXED_ENDIAN_LE_BE 7
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_64_BIT_MIXED_ENDIAN_BE_LE 8
?H:?DOUBLEKIND:#define DOUBLE_IS_VAX_F_FLOAT 9
?H:?DOUBLEKIND:#define DOUBLE_IS_VAX_D_FLOAT 10
?H:?DOUBLEKIND:#define DOUBLE_IS_VAX_G_FLOAT 11
?H:?DOUBLEKIND:#define DOUBLE_IS_IBM_SINGLE_32_BIT 12
?H:?DOUBLEKIND:#define DOUBLE_IS_IBM_DOUBLE_64_BIT 13
?H:?DOUBLEKIND:#define DOUBLE_IS_CRAY_SINGLE_64_BIT 14
?H:?DOUBLEKIND:#define DOUBLE_IS_UNKNOWN_FORMAT  -1
?H:#$d_PRIfldbl PERL_PRIfldbl $sPRIfldbl /**/
?H:#$d_PRIgldbl PERL_PRIgldbl $sPRIgldbl /**/
?H:#$d_PRIeldbl PERL_PRIeldbl $sPRIeldbl /**/
?H:#$d_PRIFUldbl PERL_PRIFldbl $sPRIFUldbl /**/
?H:#$d_PRIGUldbl PERL_PRIGldbl $sPRIGUldbl /**/
?H:#$d_PRIEUldbl PERL_PRIEldbl $sPRIEUldbl /**/
?H:#$d_SCNfldbl PERL_SCNfldbl $sSCNfldbl /**/
?H:#$d_double_has_inf DOUBLE_HAS_INF
?H:#$d_double_has_nan DOUBLE_HAS_NAN
?H:#$d_double_has_negative_zero
 DOUBLE_HAS_NEGATIVE_ZERO
?H:#$d_double_has_subnormals DOUBLE_HAS_SUBNORMALS
?H:#$d_double_style_cray DOUBLE_STYLE_CRAY
?H:#$d_double_style_ibm DOUBLE_STYLE_IBM
?H:#$d_double_style_ieee DOUBLE_STYLE_IEEE
?H:#$d_double_style_vax DOUBLE_STYLE_VAX
?H:.
?T:yyy message saveccflags
?F:!try
?LINT:change ccflags
?LINT:change uselongdouble
: Check what kind of doubles your system has
$echo "Checking the kind of doubles you have..." >&4
$cat >try.c <<EOP
#$i_stdlib I_STDLIB
#define DOUBLESIZE $doublesize
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <stdio.h>
static const double d = -0.1;
int main() {
 unsigned const char* b = (unsigned const char*)(&d);
#if DOUBLESIZE == 4
 if (b[0] == 0xCD && b[3] == 0xBD) {
   /* IEEE 754 32-bit little-endian */
```

```
  printf("1\n");
  exit(0);
 }
 if (b[0] == 0xBD && b[3] == 0xCD) {
  /* IEEE 754 32-bit big-endian */
  printf("2\n");
  exit(0);
 }
 if (b[0] == 0xCC && b[3] == 0xCC) {
  /* VAX format F, 32-bit
 PDP-style mixed endian. */
  printf("9\n");
  exit(0);
 }
 if (b[0] == 0xC0 && b[3] == 0x9A) {
  /* IBM single 32-bit */
  printf("12\n");
  exit(0);
 }
#endif
#if DOUBLESIZE == 8
 if (b[0] == 0x9A && b[7] == 0xBF) {
  /* IEEE 754 64-bit little-endian */
  printf("3\n");
  exit(0);
 }
 if (b[0] == 0xBF && b[7] == 0x9A) {
  /* IEEE 754 64-bit big-endian */
  printf("4\n");
  exit(0);
 }
 if (b[0] == 0x99 && b[3] == 0xBF && b[4] == 0x9A && b[7] == 0x99) {
  /* ARM mixed endian: two little-endian 32-bit floats, in big endian order:
   * 4 5 6 7 0 1 2 3 (MSB = 7, LSB = 0)
   * 99 99 b9 bf 9a 99 99 99 */
  printf("7\n");
  exit(0);
 }
 if (b[0] == 0x99 && b[3] == 0x9A && b[4] == 0xBF && b[7] == 0x99) {
  /* The opposite of case 7, mixed endian: two big-endian 32-bit floats,
   * in little endian order: 3 2 1 0 7 6 5 4 (MSB = 7, LSB = 0)
   * 99 99 99 9a bf b9 99 99 */
  printf("8\n");
  exit(0);
 }
 if (b[0] == 0xCC && b[7] == 0xCC) {
  /* VAX
```

```
 format D, 64-bit PDP-style mixed endian. */
   printf("10\n");
   exit(0);
 }
 if (b[0] == 0xD9 && b[7] == 0x99) {
  /* VAX format G, 64-bit PDP-style mixed endian. */
   printf("11\n");
   exit(0);
 }
 if (b[0] == 0xC0 && b[7] == 0x9A) {
   /* IBM double 64-bit */
   printf("13\n");
   exit(0);
 }
 if (b[0] == 0xBF && b[7] == 0xCD) {
   /* CRAY single 64-bit */
   printf("14\n");
   exit(0);
 }
#endif
#if DOUBLESIZE == 16
 if (b[0] == 0x9A && b[15] == 0xBF) {
   /* IEEE 754 128-bit little-endian */
   printf("5\n");
   exit(0);
 }
 if (b[0] == 0xBF && b[15] == 0x9A) {
   /* IEEE 754 128-bit big-endian */
   printf("6\n");
   exit(0);
 }
#endif
 /* Then there are old mainframe/miniframe formats like IBM and CRAY.
  * Whether those environments can still build Perl is debatable. */
 printf("-1\n"); /* unknown */
 exit(0);
}
EOP
set try
if eval $compile; then
   doublekind=`$run ./try`
else
   doublekind=-1
fi
case "$doublekind" in
1) echo "You have IEEE
 754 32-bit little endian doubles." >&4 ;;
2) echo "You have IEEE 754 32-bit big endian doubles." >&4 ;;
```

```
3) echo "You have IEEE 754 64-bit little endian doubles." >&4 ;;
4) echo "You have IEEE 754 64-bit big endian doubles." >&4 ;;
5) echo "You have IEEE 754 128-bit little endian doubles." >&4 ;;
6) echo "You have IEEE 754 128-bit big endian doubles." >&4 ;;
7) echo "You have IEEE 754 64-bit mixed endian doubles (32-bit LEs in BE)." >&4 ;;
8) echo "You have IEEE 754 64-bit mixed endian doubles (32-bit BEs in LE)." >&4 ;;
9) echo "You have VAX format F 32-bit PDP-style mixed endian doubles." >&4 ;;
10) echo "You have VAX format D 64-bit PDP-style mixed endian doubles." >&4 ;;
11) echo "You have VAX format G 64-bit PDP-style mixed endian doubles." >&4 ;;
12) echo "You have IBM short 32-bit doubles." >&4 ;;
13) echo "You have IBM long 64-bit doubles." >&4 ;;
14) echo "You have Cray single 64-bit doubles." >&4 ;;
*) echo "Cannot figure out your double.  You Cyber, or something?" >&4 ;;
esac
d_double_style_ieee=$undef
d_double_style_vax=$undef
d_double_style_ibm=$undef
d_double_style_cray=$undef
case
 "$doublekind" in
1|2|3|4|5|6|7|8) d_double_style_ieee=$define ;;
9|10|11) d_double_style_vax=$define ;;
12|13) d_double_style_ibm=$define ;;
14) d_double_style_cray=$define ;;
esac
case "$d_double_style_ieee" in
$define)
   d_double_has_inf=$define
   d_double_has_nan=$define
   d_double_has_negative_zero=$define
   d_double_has_subnormals=$define
   ;;
*)
   d_double_has_inf=$undef
   d_double_has_nan=$undef
   d_double_has_negative_zero=$undef
   d_double_has_subnormals=$undef
   ;;
esac
$rm_try

: Check print/scan long double stuff
echo " "

if $test X"$d_longdbl" = X"$define"; then

echo "Checking how to print long doubles..." >&4
```

```
if $test X"$sPRIfldbl" = X -a X"$doublesize" = X"$longdblsize"; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
 double d = 123.456;
 printf("%.3f\n", d);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run
 ./try`
  case "$yyy" in
  123.456)
   sPRIfldbl='"f"'; sPRIgldbl='"g"'; sPRIeldbl='"e"';
   sPRIFUldbl='"F"'; sPRIGUldbl='"G"'; sPRIEUldbl='"E"';
   echo "We will use %f."
   ;;
  esac
 fi
fi

if $test X"$sPRIfldbl" = X; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
 long double d = 123.456;
 printf("%.3Lf\n", d);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  123.456)
   sPRIfldbl='"Lf"'; sPRIgldbl='"Lg"'; sPRIeldbl='"Le"';
   sPRIFUldbl='"LF"'; sPRIGUldbl='"LG"'; sPRIEUldbl='"LE"';
   echo "We will use %Lf."
   ;;
  esac
 fi
fi

if $test X"$sPRIfldbl" = X; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
```

```
#include <stdio.h>
int main() {
 long double d = 123.456;
 printf("%.3llf\n", d);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  123.456)
   sPRIfldbl='"llf"'; sPRIgldbl='"llg"'; sPRIeldbl='"lle"';
   sPRIFUldbl='"llF"'; sPRIGUldbl='"llG"'; sPRIEUldbl='"llE"';
   echo "We
 will use %llf."
   ;;
  esac
 fi
fi

if $test X"$sPRIfldbl" = X; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
 long double d = 123.456;
 printf("%.3lf\n", d);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  123.456)
   sPRIfldbl='"lf"'; sPRIgldbl='"lg"'; sPRIeldbl='"le"';
   sPRIFUldbl='"lF"'; sPRIGUldbl='"lG"'; sPRIEUldbl='"lE"';
   echo "We will use %lf."
   ;;
  esac
 fi
fi

if $test X"$sPRIfldbl" = X; then
 echo "Cannot figure out how to print long doubles." >&4
else
 sSCNfldbl=$sPRIfldbl # expect consistency
fi
```

```
$rm_try

fi # d_longdbl

case "$sPRIfldbl" in
") d_PRIfldbl="$undef"; d_PRIgldbl="$undef"; d_PRIeldbl="$undef";
 d_PRIFUldbl="$undef"; d_PRIGUldbl="$undef"; d_PRIEUldbl="$undef";
 d_SCNfldbl="$undef";
 ;;
*) d_PRIfldbl="$define"; d_PRIgldbl="$define"; d_PRIeldbl="$define";
 d_PRIFUldbl="$define"; d_PRIGUldbl="$define"; d_PRIEUldbl="$define";
 d_SCNfldbl="$define";
 ;;
esac

: Before committing on uselongdouble,
 see whether that looks sane.
if $test "$uselongdouble" = "$define"; then
   message=""
   echo " "
   echo "Checking if your long double math functions work right..." >&4
   $cat > try.c <<EOF
#include <math.h>
#include <stdio.h>
int main() {
 printf("%"$sPRIgldbl"\n", sqrtl(logl(expl(cosl(sinl(0.0L))))+powl(2.0L, 3.0L)));
}
EOF
   case "$osname:$gccversion" in
   aix:) saveccflags="$ccflags"
  ccflags="$ccflags -qlongdouble" ;; # to avoid core dump
   esac
   set try
   if eval $compile_ok; then
     yyy=`$run ./try`
   fi
   case "$yyy" in
   3) echo "Your long double math functions are working correctly." >&4 ;;
   *) echo "Your long double math functions are broken, not using long doubles." >&4
      uselongdouble=$undef
      ;;
   esac
   $rm_try
   case "$osname:$gccversion" in
   aix:) ccflags="$saveccflags" ;; # restore
   esac
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/longdblfio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: baserev.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: baserev.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:baserev: Null
?MAKE: -pick wipe $@ %<
?S:baserev:
?S: The base revision level of this package, from the .package file.
?S:.
: set the base revision
baserev=<BASEREV>
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/baserev.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_memcmp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memcmp.U,v $
?RCS: Revision 3.0.1.1  1993/09/13  16:02:35  ram
?RCS: patch10: removed text recommending bcmp over memcmp (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:33  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?MAKE:d_memcmp: Inlibc
?MAKE: -pick add $@ %<
?S:d_memcmp:
?S: This variable conditionally defines the HAS_MEMCMP symbol, which
?S: indicates to the C program that the memcmp() routine is available
?S: to compare blocks of
 memory.
?S:.
?C:HAS_MEMCMP (MEMCMP):
?C: This symbol, if defined, indicates that the memcmp routine is available
?C: to compare blocks of memory.
?C:.
?H:#$d_memcmp HAS_MEMCMP /**/
?H:.
?LINT:set d_memcmp
: see if memcmp exists
set memcmp d_memcmp
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_memcmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: maildir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: maildir.U,v $
?RCS: Revision 3.0.1.1  1993/12/15  08:21:56  ram
?RCS: patch15: now also looks under /var/mail for BSD/386
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:maildir maildirexp: Getfile Loc Oldconfig
?MAKE: -pick add $@ %<
?S:maildir:
?S: This variable contains the name of the directory in which mail is
?S: spooled. Programs using this variable must be prepared to deal with
?S: ~name
```

```
 substitutions.
?S:.
?S:maildirexp:
?S: This is the same as the maildir variable, but is filename expanded
?S: at configuration time, for programs not willing to deal with it at
?S: run-time.
?S:.
: determine where mail is spooled
case "$maildir" in
") dflt=`./loc . /usr/spool/mail /usr/spool/mail /usr/mail /var/mail`;;
*) dflt="$maildir";;
esac
echo " "
fn=d~
rp='Where is yet-to-be-read mail spooled?'
. ./getfile
maildir="$ans"
maildirexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/maildir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:siteman1dir siteman1direxp installsiteman1dir: Getfile \
 Setprefixvar prefix siteprefix man1dir sed
?MAKE: -pick add $@ %<
?Y:TOP
?D:siteman1dir="
?S:siteman1dir:
?S: This variable contains the name of the directory in which site-specific
?S: manual source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S: The standard distribution will put nothing in this directory.
?S: After perl
 has been installed, users may install their own local
?S: man1 pages in this directory with
```

```
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:siteman1direxp="
?S:siteman1direxp:
?S: This variable is the same as the siteman1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsiteman1dir="
?S:installsiteman1dir:
?S: This variable is really the same as siteman1direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man1direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installsiteman1dir
?LINT:set siteman1dir
?LINT:set siteman1direxp
: determine where add-on manual pages go
case "$siteman1dir" in
") dflt=`echo $man1dir | $sed "s#^$prefix#$siteprefix#"` ;;
*) dflt=$siteman1dir ;;
esac
case "$dflt" in
"|' ') dflt=none ;;
esac
fn=dn+~
rp='Pathname
 where the site-specific manual pages should be installed?'
. ./getfile
prefixvar=siteman1dir
. ./setprefixvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/siteman1dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getnent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 3.0.
```

```
?RCS:
?RCS: $Log: d_getnent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getnent: Inlibc
?MAKE: -pick add $@ %<
?S:d_getnent:
?S: This variable conditionally defines HAS_GETNETENT if getnetent() is
?S: available to look up network names in some data base or another.
?S:.
?C:HAS_GETNETENT:
?C: This symbol, if defined, indicates that the getnetent() routine is
?C: available to look up network names in some data base
 or another.
?C:.
?H:#$d_getnent HAS_GETNETENT  /**/
?H:.
?LINT:set d_getnent
: see if getnetent exists
set getnetent d_getnent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_getnent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ctime_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_ctime_r ctime_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_time i_systime extern_C
?MAKE: -pick add $@ %<
?S:d_ctime_r:
?S: This variable conditionally defines the HAS_CTIME_R symbol,
?S: which indicates to the C program that the ctime_r()
?S: routine is available.
?S:.
?S:ctime_r_proto:
?S: This variable encodes the prototype of ctime_r.
?S: It is zero if d_ctime_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_ctime_r
```

```
?S: is defined.
?S:.
?C:HAS_CTIME_R:
?C: This symbol, if defined, indicates that the ctime_r routine
?C: is available to ctime re-entrantly.
?C:.
?C:CTIME_R_PROTO:
?C: This
 symbol encodes the prototype of ctime_r.
?C: It is zero if d_ctime_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_ctime_r
?C: is defined.
?C:.
?H:#$d_ctime_r HAS_CTIME_R /**/
?H:#define CTIME_R_PROTO $ctime_r_proto /**/
?H:.
?T:try hdrs d_ctime_r_proto
: see if ctime_r exists
set ctime_r d_ctime_r
eval $inlibc
case "$d_ctime_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_time time.h $i_systime sys/time.h"
 case "$d_ctime_r_proto:$usethreads" in
 ":define") d_ctime_r_proto=define
  set d_ctime_r_proto ctime_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_ctime_r_proto" in
 define)
 case "$ctime_r_proto" in
 "|0) try='char* ctime_r(const time_t*, char*);'
 ./protochk "$extern_C $try" $hdrs && ctime_r_proto=B_SB ;;
 esac
 case "$ctime_r_proto" in
 "|0) try='char* ctime_r(const time_t*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && ctime_r_proto=B_SBI ;;
 esac
 case "$ctime_r_proto" in
 "|0) try='int ctime_r(const
 time_t*, char*);'
 ./protochk "$extern_C $try" $hdrs && ctime_r_proto=I_SB ;;
 esac
 case "$ctime_r_proto" in
 "|0) try='int ctime_r(const time_t*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && ctime_r_proto=I_SBI ;;
 esac
```

```
 case "$ctime_r_proto" in
 "|0) d_ctime_r=undef
  ctime_r_proto=0
  echo "Disabling ctime_r, cannot determine prototype." >&4 ;;
 * ) case "$ctime_r_proto" in
  REENTRANT_PROTO*) ;;
  *) ctime_r_proto="REENTRANT_PROTO_$ctime_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "ctime_r has no prototype, not using it." >&4 ;;
  esac
  d_ctime_r=undef
  ctime_r_proto=0
  ;;
 esac
 ;;
*) ctime_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_ctime_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_gethbynm.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_gethbynm: Inlibc
?MAKE: -pick add $@ %<
?S:d_gethbynm (d_gethhstby):
?S: This variable conditionally defines the HAS_GETHOSTBYNAME symbol, which
?S: indicates to the C program that the gethostbyname() routine is available
?S: to lookup host names in some data base or other.
```

```
?S:.
?C:HAS_GETHOSTBYNAME (GETHOSTBYNAME):
?C: This symbol, if defined, indicates that the gethostbyname()
 routine is
?C: available to lookup host names in some data base or other.
?C:.
?H:#$d_gethbynm HAS_GETHOSTBYNAME  /**/
?H:.
?LINT:set d_gethbynm
: see if gethostbyname exists
set gethostbyname d_gethbynm
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_gethbynm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysstat.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysstat.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:48:30  ram
?RCS: patch61: created
?RCS:
?MAKE:i_sysstat: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysstat:
?S: This variable conditionally defines the I_SYS_STAT symbol,
?S: and indicates whether a C program should include <sys/stat.h>.
?S:.
?C:I_SYS_STAT (I_SYSSTAT):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/stat.h>.
?C:.
?H:#$i_sysstat I_SYS_STAT  /**/
?H:.
?LINT:set
 i_sysstat
: see if sys/stat.h is available
```

```
set sys/stat.h i_sysstat
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sysstat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: filexp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: filexp.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:filexp: privlib
?MAKE: -pick add $@ %<
?S:filexp:
?S: This symbol contains the full pathname of the filexp script, in case we
?S: are saving the script for posterity.
?S:.
: must not allow self reference
case "$privlib" in
 /*)
 filexp=$privlib/filexp
 ;;
 *)
 filexp=`pwd`/filexp
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/filexp_path.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_times.U,v 3.0.1.2 1995/07/25 14:07:50 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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```

```
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_times.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:07:50  ram
?RCS: patch56: typo fix, sytem -> system
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:14:00  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: What is the type returned by times() ?
?X:
?X: Force inclusion of <sys/types.h>
?X:INC: i_systypes
?MAKE:d_times clocktype:
 Csym Myread Typedef i_systimes
?MAKE: -pick add $@ %<
?S:d_times:
?S: This variable conditionally defines the HAS_TIMES symbol, which indicates
?S: that the times() routine exists.  The times() routine is normally
?S: provided on UNIX systems. You may have to include <sys/times.h>.
?S:.
?S:clocktype:
?S: This variable holds the type returned by times(). It can be long,
?S: or clock_t on BSD sites (in which case <sys/types.h> should be
?S: included).
?S:.
?C:HAS_TIMES (TIMES):
?C: This symbol, if defined, indicates that the times() routine exists.
?C: Note that this became obsolete on some systems (SUNOS), which now
?C: use getrusage(). It may be necessary to include <sys/times.h>.
?C:.
?C:Clock_t (CLOCKTYPE):
?C: This symbol holds the type returned by times(). It can be long,
?C: or clock_t on BSD sites (in which case <sys/types.h> should be
?C: included).
?C:.
?H:#$d_times HAS_TIMES  /**/
?H:#define Clock_t $clocktype /* Clock time */
?H:.
?T:val inc
: see if times exists
```

```
echo "
 "
if set times val -f d_times; eval $csym; $val; then
 echo 'times() found.' >&4
 d_times="$define"
 inc=''
 case "$i_systimes" in
 "$define") inc='sys/times.h';;
 esac
 rp="What is the type returned by times() on this system?"
 set clock_t clocktype long stdio.h sys/types.h $inc
 eval $typedef_ask
else
 echo 'times() NOT found, hope that will do.' >&4
 d_times="$undef"
?X: The following is needed for typedef (won't like an empty variable)
 clocktype='int'
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/d_times.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sitelib.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:21:35  ram
?RCS: patch61: created
?RCS:
?MAKE:sitelib sitelibexp installsitelib: afs cat Getfile \
 Oldconfig Prefixit test privlib package sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:sitelib:
?S: This variable contains the eventual value of the SITELIB symbol,
?S: which is the name of the private library for this package.  It may
?S: have a ~ on the front. It is up to the makefile to eventually create
?S: this
```

```
 directory while performing installation (with ~ substitution).
?S:.
?S:sitelibexp:
?S: This variable is the ~name expanded version of sitelib, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?S:installsitelib:
?S: This variable is really the same as sitelibexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?C:SITELIB:
?C: This symbol contains the name of the private library for this package.
?C: The library is private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.  The program
?C: should be prepared to do ~ expansion.
?C: The standard distribution will put nothing in this directory.
?C: Individual sites may place their own extensions and modules in
?C: this directory.
?C:.
?C:SITELIB_EXP:
?C: This symbol contains the ~name expanded version of SITELIB, to be used
?C: in programs that are not prepared to deal with ~ expansion
 at run-time.
?C:.
?H:#define SITELIB "$sitelib"  /**/
?H:#define SITELIB_EXP "$sitelibexp"  /**/
?H:.
?T:prog
: determine where site specific libraries go.
set sitelib sitelib
eval $prefixit
case "$sitelib" in
")
?X: remove any trailing -3.0 or other version indentification
 prog=`echo $package | $sed 's/-*[0-9.]*$//'`
 dflt="$privlib/site_$prog" ;;
*) dflt="$sitelib" ;;
esac
$cat <<EOM

The installation process will also create a directory for
site-specific extensions and modules.  Some users find it convenient
to place all local files in this directory rather than in the main
distribution directory.

EOM
fn=d~+
```

```
rp='Pathname for the site-specific library files?'
. ./getfile
if $test "X$sitelibexp" != "X$ansexp"; then
 installsitelib=''
fi
sitelib="$ans"
sitelibexp="$ansexp"
if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
private files reside from the directory in which they are installed (and from
which they are presumably copied to
 the former directory by occult means).

EOM
 case "$installsitelib" in
 '') dflt=`echo $sitelibexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installsitelib";;
 esac
 fn=de~
 rp='Where will private files be installed?'
 . ./getfile
 installsitelib="$ans"
else
 installsitelib="$sitelibexp"
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/sitelib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strcoll.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_strcoll.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:12:01  ram
?RCS: patch32: created by ADO
```

```
?RCS:
?MAKE:d_strcoll: Inlibc
?MAKE: -pick add $@ %<
?S:d_strcoll:
?S: This variable conditionally defines HAS_STRCOLL if strcoll() is
?S: available to compare strings using collating information.
?S:.
?C:HAS_STRCOLL:
?C: This symbol, if defined, indicates that the strcoll routine
 is
?C: available to compare strings using collating information.
?C:.
?H:#$d_strcoll HAS_STRCOLL /**/
?H:.
?LINT:set d_strcoll
: see if strcoll exists
set strcoll d_strcoll
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strcoll.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_closedir.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:31:26  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:11:18  ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:21  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_closedir d_void_closedir: Inlibc i_dirent i_sysdir i_sysndir \
 cc ccflags ldflags libs Setvar rm
```

```
?MAKE: -pick
 add $@ %<
?S:d_closedir:
?S: This variable conditionally defines HAS_CLOSEDIR if closedir() is
?S: available.
?S:.
?C:HAS_CLOSEDIR:
?C: This symbol, if defined, indicates that the closedir() routine is
?C: available.
?C:.
?H:#$d_closedir HAS_CLOSEDIR  /**/
?H:.
?S:d_void_closedir:
?S: This variable conditionally defines VOID_CLOSEDIR if closedir()
?S: does not return a value.
?S:.
?C:VOID_CLOSEDIR:
?C: This symbol, if defined, indicates that the closedir() routine
?C: does not return a value.
?C:.
?H:#$d_void_closedir VOID_CLOSEDIR  /**/
?H:.
?F:!closedir
?LINT:set d_closedir d_void_closedir
: see if closedir exists
set closedir d_closedir
eval $inlibc

@if VOID_CLOSEDIR || d_void_closedir
?X: The following contortions are designed so we can call closedir()
?X: and check whether it returns a value.  The contortions are designed
?X: to portably pick up the correct directory header, for those
?X: systems that support various mutually incompatible directory functions.
?X: This
 is from perl5's perl.h
case "$d_closedir" in
"$define")
 echo " "
 echo "Checking whether closedir() returns a status..." >&4
 cat > closedir.c <<EOM
#$i_dirent I_DIRENT  /**/
#$i_sysdir I_SYS_DIR  /**/
#$i_sysndir I_SYS_NDIR  /**/

#if defined(I_DIRENT)
#include <dirent.h>
#if defined(NeXT) && defined(I_SYS_DIR) /* NeXT needs dirent + sys/dir.h */
#include <sys/dir.h>
```

```
#endif
#else
#ifdef I_SYS_NDIR
#include <sys/ndir.h>
#else
#ifdef I_SYS_DIR
#ifdef hp9000s500
#include <ndir.h> /* may be wrong in the future */
#else
#include <sys/dir.h>
#endif
#endif
#endif
#endif
int main() { return closedir(opendir(".")); }
EOM
 if $cc $ccflags $ldflags -o closedir closedir.c $libs > /dev/null 2>&1; then
  if ./closedir > /dev/null 2>&1 ; then
   echo "Yes, it does."
   val="$undef"
  else
   echo "No, it doesn't."
   val="$define"
  fi
 else
  echo "(I can't seem to compile the test program--assuming it doesn't)"
  val="$define"
 fi
 ;;
*)
 val="$undef";
 ;;
esac
set d_void_closedir
eval $setvar
$rm
 -f closedir*
@end
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_closedir.U
No license file was found, but licenses were detected in source scan.

```
case $CONFIG in
")
 if test -f config.sh; then TOP=.;
 elif test -f ../config.sh; then TOP=..;
```

```
 elif test -f ../../config.sh; then TOP=../..;
 elif test -f ../../../config.sh; then TOP=../../..;
 elif test -f ../../../../config.sh; then TOP=../../../..;
 else
  echo "Can't find config.sh."; exit 1
 fi
 . $TOP/config.sh
 ;;
esac
case "$0" in
*/*) cd `expr X$0 : 'X\(.*\)/'` ;;
esac
echo "Extracting makedepend (with variable substitutions)"
$spitshell >makedepend <<!GROK!THIS!
$startsh
# $Id: makedepend.sh,v 3.0.1.1 1994/01/24 14:00:05 ram Exp ram $
#
#  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
#
#  You may redistribute only under the terms of the Artistic Licence,
#  as specified in the README file that comes with the distribution.
#  You may reuse parts of this distribution only within the terms of
#  that same Artistic Licence; a copy of which may be found at the root
#  of the source tree for dist 4.0.
#
#
 Original Author: Larry Wall <lwall@netlabs.com>
#
# $Log: makedepend.sh,v $
# Revision 3.0.1.1  1994/01/24  14:00:05  ram
# patch16: changed top ln-style config.sh lookup into test-style one
#
# Revision 3.0  1993/08/18  12:04:37  ram
# Baseline for dist 3.0 netwide release.
#

export PATH || (echo "OOPS, this isn't sh.  Desperation time.  I will feed myself to sh."; sh \$0; kill \$\$)

cat='$cat'
cppflags='$cppflags'
cp='$cp'
cpp='$cppstdin'
echo='$echo'
egrep='$egrep'
expr='$expr'
mv='$mv'
rm='$rm'
sed='$sed'
```

```
sort='$sort'
test='$test'
tr='$tr'
uniq='$uniq'
!GROK!THIS!

$spitshell >>makedepend <<'!NO!SUBS!'

$cat /dev/null >.deptmp
$rm -f *.c.c c/*.c.c
if test -f Makefile; then
   mf=Makefile
else
   mf=makefile
fi
if test -f $mf; then
   defrule=`<$mf sed -n  \
 -e '/^\.c\.o:.*;/{'  \
 -e    's/\$\*\.c//'  \
 -e    's/^[^;]*;[  ]*//p' \
 -e    q    \
 -e '}'    \
 -e '/^\.c\.o: *$/{'  \
 -e    N    \
 -e    's/\$\*\.c//'  \
 -e    's/^.*\n[  ]*//p'  \
 -e    q    \
 -e '}'`
fi
case
 "$defrule" in
") defrule='$(CC) -c $(CFLAGS)' ;;
esac

make clist || ($echo "Searching for .c files..."; \
 $echo *.c | $tr ' ' '\012' | $egrep -v '\*' >.clist)
gotnone=true
for file in `$cat .clist`; do
# for file in `cat /dev/null`; do
   case "$file" in
   *.c) filebase=`basename $file .c` ;;
   *.y) filebase=`basename $file .c` ;;
   ")  continue ;;
   esac
   gotnone=false
   $echo "Finding dependencies for $filebase.o."
   $sed -n <$file >$file.c \
 -e "/^${filebase}_init(/q" \
```

```
 -e '/^#/{' \
 -e 's|/\*.*$||' \
 -e 's|\\$||' \
 -e p \
 -e '}'
   $cpp -I/usr/local/include -I. $cppflags $file.c | \
   $sed \
 -e '/^# *[0-9]/!d' \
 -e 's/^.*"\(.*\)".*$/'$filebase'.o: \1/' \
 -e 's|: \./|: |' \
 -e 's|\.c\.c|.c|' | \
   $uniq | $sort | $uniq >> .deptmp
done

$sed <Makefile >Makefile.new -e '1,/^# AUTOMATICALLY/!d'

make shlist || ($echo "Searching for .SH files..."; \
 $echo *.SH | $tr ' ' '\012' | $egrep -v '\*' >.shlist)
if $gotnone || $test -s .deptmp; then

  for file in `cat .shlist`; do
 $echo `$expr X$file : 'X\(.*\).SH`: $file config.sh \; \
     /bin/sh $file >> .deptmp
   done
   $echo "Updating Makefile..."
   $echo "# If this runs make out of memory, delete /usr/include lines." \
 >> Makefile.new
   $sed 's|^\(.*\.o:\) *\(.*/.*\.c\) *$|\1 \2; "$defrule \2|" .deptmp \
      >>Makefile.new
else
   make hlist || ($echo "Searching for .h files..."; \
 $echo *.h | $tr ' ' '\012' | $egrep -v '\*' >.hlist)
   $echo "You don't seem to have a proper C preprocessor.  Using grep instead."
   $egrep '^#include ' `cat .clist` `cat .hlist`  >.deptmp
   $echo "Updating Makefile..."
   <.clist $sed -n       \
 -e '/\//{'       \
 -e   's|^\(.*\)/\(.*\)\.c|\2.o: \1/\2.c; "$defrule \1/\2.c|p" \
 -e   d        \
 -e '}'        \
 -e 's|^\(.*\)\.c|\1.o: \1.c|p' >> Makefile.new
   <.hlist $sed -n 's|\(.*/\)\(.*\)|s= \2= \1\2=|p' >.hsed
   <.deptmp $sed -n 's|c:#include "\(.*\)".*$|o: \1|p' | \
      $sed 's|^[^;]*/||' | \
      $sed -f
 .hsed >> Makefile.new
   <.deptmp $sed -n 's|c:#include <\(.*\)>.*$|o: /usr/include/\1|p' \
      >> Makefile.new
```

```
  <.deptmp $sed -n 's|h:#include "\(.*\)".*$|h: \1|p' | \
    $sed -f .hsed >> Makefile.new
  <.deptmp $sed -n 's|h:#include <\(.*\)>.*$|h: /usr/include/\1|p' \
    >> Makefile.new
  for file in `$cat .shlist`; do
 $echo `$expr X$file : 'X\(.*\).SH`: $file config.sh \; \
    /bin/sh $file >> Makefile.new
  done
fi
$rm -f Makefile.old
$cp Makefile Makefile.old
$cp Makefile.new Makefile
$rm Makefile.new
$echo "# WARNING: Put nothing here or make depend will gobble it up!" >> Makefile
$rm -f .deptmp `sed 's/\.c/.c.c/' .clist` .shlist .clist .hlist .hsed

!NO!SUBS!
$eunicefix makedepend
chmod +x makedepend
case `pwd` in
*SH)
  $rm -f ../makedepend
  ln makedepend ../makedepend
  ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/makedepend.SH
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2017-2018, H.Merijn Brand
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_accept4: Inlibc
?MAKE: -pick add $@ %<
?S:d_accept4:
?S: This variable conditionally defines HAS_ACCEPT4 if accept4() is
?S: available to accept socket connections.
?S:.
?C:HAS_ACCEPT4:
?C: This symbol, if defined, indicates that the accept4 routine is
?C: available to accept socket connections.
```

```
?C:.
?H:#$d_accept4 HAS_ACCEPT4 /**/
?H:.
?LINT:set d_accept4
: see if accept4 exists
set accept4 d_accept4
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_accept4.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?MAKE:run to from targetarch usecrosscompile: src awk cat grep test rm \
 echo sed mkdir cp touch chmod
?MAKE: -pick add $@ %<
?Y:TOP
?S:usecrosscompile:
?S: This variable conditionally defines the USE_CROSS_COMPILE symbol,
?S: and indicates that our package has been cross-compiled.
?S:.
?S:run:
?S: This variable contains the command used by Configure
?S: to copy and execute a cross-compiled executable in the
?S: target host.  Useful and available only during
 the build.
?S: Empty string '' if not cross-compiling.
?S:.
?S:from:
?S: This variable contains the command used by Configure
?S: to copy files from the target host.  Useful and available
?S: only during the build.
?S: The string ':' if not cross-compiling.
?S:.
?S:to:
?S: This variable contains the command used by Configure
```

```
?S: to copy to from the target host.  Useful and available
?S: only during the build.
?S: The string ':' if not cross-compiling.
?S:.
?S:targetarch:
?S: If cross-compiling, this variable contains the target architecture.
?S: If not, this will be empty.
?S:.
?C:USE_CROSS_COMPILE:
?C: This symbol, if defined, indicates that the package is being
?C: cross-compiled.
?C:.
?C:CROSS_TARGET_ARCH:
?C: This symbol, if defined, indicates the target architecture
?C: the package has been cross-compiled to.
?C: Undefined if not a cross-compile.
?C:.
?H:?usecrosscompile:#ifndef USE_CROSS_COMPILE
?H:?usecrosscompile:#$usecrosscompile USE_CROSS_COMPILE /**/
?H:?usecrosscompile:#define
 CROSS_TARGET_ARCH "$targetarch" /**/
?H:?usecrosscompile:#endif
?H:.
?T:croak pwd exe f q i j cwd
?LINT:extern usecrosscompile
?LINT:extern cc
?LINT:extern usrinc
?LINT:change usrinc
?LINT:change ar
?LINT:change nm
?LINT:change ranlib
?LINT:extern targethost
?LINT:extern targetdir
?LINT:change targetdir
?LINT:extern targetuser
?LINT:change targetuser
?LINT:extern targetrun
?LINT:extern targetfrom
?LINT:extern targetto
?LINT:extern targetmkdir
?LINT:change targetrun
?LINT:change targetfrom
?LINT:change targetto
?LINT:change targetmkdir
?LINT:extern incpth
?LINT:extern libpth
?LINT:change incpth
?LINT:change libpth
```

```
?LINT:extern locincpth
?LINT:extern loclibpth
?LINT:change locincpth
?LINT:change loclibpth
?LINT:extern TMPDIR
: setup for possible cross-compilation
run=''
to=:
from=:
usecrosscompile='undef'
targetarch=''
case "$usecrosscompile" in
$define|true|[yY]*)
@if { test -d ../Cross }
?X:
?X: Cross-compilation is enabled when there is a 'Cross' directory found
?X: at the root
 of the package.  This directory must contain the following
?X: entries for defining the cross-compilation process:
?X:
?X: FIXME FIXME
?X: WE MUST DISTINGUISH BETWEEN LOCAL cross-compiling AND REMOTE ONE
?X: ACTUALLY, REMOTE COMPILATION SHOULD BE CONFIGURED INTERACTIVELY
?X: IT WILL COPY ALL THE FILES FROM THE MANIFEST DOWN TO THE REMOTE DIR...
?X: (and copy things like 'mkdep', etc...)
?X:
 $echo "Cross-compiling..."
 croak=''
 case "$cc" in
 *-*-gcc)
?X: A cross-compiling gcc, probably.
    targetarch=`$echo $cc|$sed 's/-gcc$//'`
    ar=$targetarch-ar
?X: leave out ld, choosing it is more complex
    nm=$targetarch-nm
    ranlib=$targetarch-ranlib
    $echo 'extern int foo;' > try.c
    set X `$cc -v -E try.c 2>&1 | \
  $awk '/^#include </,/^End of search /'|$grep '/include'`
    shift
  if $test $# -gt 0; then
        incpth="$incpth $*"
  incpth="`$echo $incpth|$sed 's/^ //'`"
  echo "Guessing incpth '$incpth'." >&4
  for i in $*; do
   j="`$echo $i|$sed 's,/include$,/lib,'`"
   if
```

```
$test -d $j; then
    libpth="$libpth $j"
   fi
  done
  libpth="`$echo $libpth|$sed 's/^ //'`"
  echo "Guessing libpth '$libpth'." >&4
    fi
    $rm -f try.c
    ;;
esac
case "$targetarch" in
") echo "Targetarch not defined." >&4; croak=y ;;
*)  echo "Using targetarch $targetarch." >&4 ;;
esac
case "$incpth" in
") echo "Incpth not defined." >&4; croak=y ;;
*)  echo "Using incpth '$incpth'." >&4 ;;
esac
case "$libpth" in
") echo "Libpth not defined." >&4; croak=y ;;
*)  echo "Using libpth '$libpth'." >&4 ;;
esac
case "$usrinc" in
")
 for i in $incpth; do
  if $test -f $i/errno.h -a -f $i/stdio.h -a -f $i/time.h; then
   usrinc=$i
   echo "Guessing usrinc $usrinc." >&4
   break
  fi
    done
    case "$usrinc" in
    ") echo "Usrinc not defined." >&4; croak=y ;;
    esac
 ;;
*)  echo "Using usrinc $usrinc." >&4 ;;
esac
case "$targethost" in
") echo "Targethost not defined." >&4; croak=y ;;
*)  echo "Using targethost $targethost."
>&4
esac
locincpth=' '
loclibpth=' '
case "$croak" in
y) echo "Cannot continue, aborting." >&4; exit 1 ;;
esac
case "$src" in
```

```
 /*) run=$src/Cross/run
     targetmkdir=$src/Cross/mkdir
     to=$src/Cross/to
     from=$src/Cross/from
     ;;
 *)  pwd=`$test -f ../Configure & cd ..; pwd`
     run=$pwd/Cross/run
     targetmkdir=$pwd/Cross/mkdir
     to=$pwd/Cross/to
     from=$pwd/Cross/from
     ;;
 esac
 case "$targetrun" in
 ") targetrun=ssh ;;
 esac
 case "$targetto" in
 ") targetto=scp ;;
 esac
 case "$targetfrom" in
 ") targetfrom=scp ;;
 esac
 run=$run-$targetrun
 to=$to-$targetto
 from=$from-$targetfrom
 case "$targetdir" in
 ")
  targetdir="${TMPDIR:-/tmp}"
  echo "Guessing targetdir $targetdir." >&4
  ;;
 esac
 case "$targetuser" in
 ")
  targetuser=root
  echo "Guessing targetuser $targetuser." >&4
  ;;
 esac
 case "$targetfrom" in
 scp) q=-q ;;
 *) q=" ;;
 esac
 case "$targetrun" in
 ssh|rsh)
  $cat >$run <<EOF
#!/bin/sh
case "\$1" in
-cwd)
 shift
 cwd=\$1
```

```
  shift
 ;;
esac
case "\$cwd" in
") cwd=$targetdir ;;
esac
exe=\$1
shift
if $test ! -f \$exe.xok; then
 $to \$exe
 $touch \$exe.xok
fi
$targetrun -l $targetuser $targethost "cd \$cwd && ./\$exe \$@"
EOF
  ;;
 *)  echo "Unknown targetrun '$targetrun'" >&4
     exit 1
     ;;
 esac
 case "$targetmkdir" in
 */Cross/mkdir)
  $cat >$targetmkdir <<EOF
#!/bin/sh
$targetrun -l $targetuser $targethost "mkdir -p \$@"
EOF
     $chmod a+rx $targetmkdir
     ;;
 *)  echo "Unknown targetmkdir '$targetmkdir'" >&4
     exit 1
     ;;
 esac
 case "$targetto" in
 scp|rcp)
     $cat >$to <<EOF
#!/bin/sh
for f in \$@
do
 case "\$f" in
 /*)
   $targetmkdir \`dirname \$f\`
   $targetto $q \$f $targetuser@$targethost:\$f            || exit 1
   ;;
 *)
   $targetmkdir $targetdir/\`dirname \$f\`
   $targetto $q \$f $targetuser@$targethost:$targetdir/\$f || exit 1
   ;;
 esac
done
```

```
exit 0
EOF
     ;;
 cp) $cat >$to <<EOF
#!/bin/sh
for f in \$@
do
 case "\$f" in
 /*)
   $mkdir -p $targetdir/\`dirname
 \$f\`
   $cp \$f $targetdir/\$f || exit 1
   ;;
 *)
   $targetmkdir $targetdir/\`dirname \$f\`
   $cp \$f $targetdir/\$f || exit 1
   ;;
 esac
done
exit 0
EOF
     ;;
 *)  echo "Unknown targetto '$targetto'" >&4
     exit 1
     ;;
 esac
 case "$targetfrom" in
 scp|rcp)
   $cat >$from <<EOF
#!/bin/sh
for f in \$@
do
 $rm -f \$f
 $targetfrom $q $targetuser@$targethost:$targetdir/\$f . || exit 1
done
exit 0
EOF
     ;;
 cp) $cat >$from <<EOF
#!/bin/sh
for f in \$@
do
 $rm -f \$f
 cp $targetdir/\$f . || exit 1
done
exit 0
EOF
     ;;
```

```
 *)  echo "Unknown targetfrom '$targetfrom'" >&4
    exit 1
    ;;
 esac
 if $test ! -f $run; then
    echo "Target 'run' script '$run' not found." >&4
 else
    $chmod a+rx $run
 fi
 if $test ! -f $to; then
    echo "Target 'to' script '$to' not found." >&4
 else
    $chmod a+rx $to
 fi
 if $test ! -f $from; then
    echo "Target 'from' script '$from' not found." >&4
 else
    $chmod a+rx $from
 fi
 if $test ! -f $run -o ! -f $to -o !
 -f $from; then
    exit 1
 fi
 $cat >&4 <<EOF
Using '$run' for remote execution,
and '$from' and '$to'
for remote file transfer.
EOF
@else
 echo "Cross-compilation is not supported for this package." >&4
 exit 1
@end
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Cross.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_tcstpgrp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_tcstpgrp.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:12:11  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_tcsetpgrp: Inlibc
?MAKE: -pick add $@ %<
?S:d_tcsetpgrp:
?S: This variable conditionally defines the HAS_TCSETPGRP symbol, which
?S: indicates to the C program that the tcsetpgrp() routine is available
?S: to set foreground process group ID.
?S:.
?C:HAS_TCSETPGRP
 :
?C: This symbol, if defined, indicates that the tcsetpgrp routine is
?C: available to set foreground process group ID.
?C:.
?H:#$d_tcsetpgrp HAS_TCSETPGRP  /**/
?H:.
?LINT:set d_tcsetpgrp
: see if tcsetpgrp exists
set tcsetpgrp d_tcsetpgrp
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_tcstpgrp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libpth.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  16:08:49  ram
?RCS: patch61: new loclibpth variable
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:31:30  ram
?RCS: patch45: call ./mips instead of just mips (WED)
```

```
?RCS:
?RCS: Revision 3.0.1.4  1994/08/29  16:29:15  ram
?RCS: patch32: added /lib/pa1.1 for HP-UX specially tuned PA-RISC libs (ADO)
?RCS: patch32: fixed information message, making it clearer (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:03:54  ram
?RCS: patch30: added /usr/shlib to
 glibpth for shared-only libraries
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:26:57  ram
?RCS: patch27: fixed a typo (libpth -> glibpth)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:07:53  ram
?RCS: patch23: now asks for library directories to be searched (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit initializes the path for C library lookup.
?X:
?MAKE:libpth glibpth xlibpth plibpth loclibpth: \
 usrinc incpath test cat Myread Oldconfig
?MAKE: -pick add $@ %<
?S:libpth:
?S: This variable holds the general path (space-separated) used to find
?S: libraries. It is intended to be used by other units.
?S:.
?S:glibpth:
?S: This variable holds the general path (space-separated) used to
?S: find libraries.  It may contain directories that do not exist on
?S: this platform, libpth is the cleaned-up version.
?S:.
?S:xlibpth:
?S: This variable holds extra path (space-separated) used to find
?S: libraries on this platform,
 for example CPU-specific libraries
?S: (on multi-CPU platforms) may be listed here.
?S:.
?S:loclibpth:
?S: This variable holds the paths (space-separated) used to find local
?S: libraries.  It is prepended to libpth, and is intended to be easily
?S: set from the command line.
?S:.
?S:plibpth:
?S: Holds the private path used by Configure to find out the libraries.
?S: Its value is prepend to libpth. This variable takes care of special
?S: machines, like the mips.  Usually, it should be empty.
```

```
?S:.
?T: xxx dlist
?LINT:use usrinc
?INIT:: change the next line if compiling for Xenix/286 on Xenix/386
?INIT:xlibpth='/usr/lib/386 /lib/386'
?INIT:: Possible local library directories to search.
?INIT:loclibpth="/usr/local/lib /opt/local/lib /usr/gnu/lib"
?INIT:loclibpth="$loclibpth /opt/gnu/lib /usr/GNU/lib /opt/GNU/lib"
?INIT:
?INIT:: general looking path for locating libraries
?INIT:glibpth="/lib /usr/lib $xlibpth"
?INIT:glibpth="$glibpth /usr/ccs/lib /usr/ucblib /usr/local/lib"
?X: /shlib
 is for Digital Unix 4.0
?X: /usr/shlib is for OSF/1 systems.
?INIT:test -f /usr/shlib/libc.so && glibpth="/usr/shlib $glibpth"
?INIT:test -f /shlib/libc.so     && glibpth="/shlib $glibpth"
?INIT:
?INIT:: Private path used by Configure to find libraries.  Its value
?INIT:: is prepended to libpth. This variable takes care of special
?INIT:: machines, like the mips.  Usually, it should be empty.
?INIT:plibpth="
?INIT:
: Set private lib path
case "$plibpth" in
") if ./mips; then
?X: on mips, we DO NOT want /lib, and we want $incpath/usr/lib
  plibpth="$incpath/usr/lib /usr/local/lib /usr/ccs/lib"
 fi;;
esac
case "$libpth" in
' ') dlist=";;
") dlist="$loclibpth $plibpth $glibpth";;
*) dlist="$libpth";;
esac

: Now check and see which directories actually exist, avoiding duplicates
libpth="
for xxx in $dlist
do
   if $test -d $xxx; then
  case " $libpth " in
  *" $xxx "*) ;;
  *) libpth="$libpth $xxx";;
  esac
   fi
done
$cat <<'EOM'
```

```
Some systems have incompatible or broken versions
 of libraries.  Among
the directories listed in the question below, please remove any you
know not to be holding relevant libraries, and add any that are needed.
Say "none" for none.

EOM
case "$libpth" in
") dflt='none';;
*)
?X: strip leading space
 set X $libpth
 shift
 dflt=${1+"$@"}
 ;;
esac
rp="Directories to use for library searches?"
. ./myread
case "$ans" in
none) libpth=' ';;
*) libpth="$ans";;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/libpth.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2017, Lukas Mai
?RCS:
?RCS: You may distribute this file under the terms of either
?RCS:     a) the "Artistic License" which comes with Perl, or
?RCS:     b) the "Artistic License" which comes with dist, or
?RCS:     c) the GNU General Public License as published by the Free
?RCS:     Software Foundation; either version 1, or (at your option) any
?RCS:     later version (see the file "Copying" that comes with the
?RCS:     Perl distribution).
?RCS: Which one to use is your choice.
?RCS: See the U/README file.
?MAKE:d_builtin_add_overflow d_builtin_sub_overflow d_builtin_mul_overflow : Compile Setvar cat run rm_try
?MAKE: -pick add $@ %<
?S:d_builtin_add_overflow:
?S: This variable conditionally defines HAS_BUILTIN_ADD_OVERFLOW, which
?S: indicates that the compiler supports __builtin_add_overflow(x,y,&z)
?S: for safely adding x and y into z while checking for overflow.
?S:.
?S:d_builtin_sub_overflow:
```

```
?S: This
 variable conditionally defines HAS_BUILTIN_SUB_OVERFLOW, which
?S: indicates that the compiler supports __builtin_sub_overflow(x,y,&z)
?S: for safely subtracting y from x into z while checking for overflow.
?S:.
?S:d_builtin_mul_overflow:
?S: This variable conditionally defines HAS_BUILTIN_MUL_OVERFLOW, which
?S: indicates that the compiler supports __builtin_mul_overflow(x,y,&z)
?S: for safely multiplying x and y into z while checking for overflow.
?S:.
?C:HAS_BUILTIN_ADD_OVERFLOW:
?C: This symbol, if defined, indicates that the compiler supports
?C: __builtin_add_overflow for adding integers with overflow checks.
?C:.
?C:HAS_BUILTIN_SUB_OVERFLOW:
?C: This symbol, if defined, indicates that the compiler supports
?C: __builtin_sub_overflow for subtracting integers with overflow checks.
?C:.
?C:HAS_BUILTIN_MUL_OVERFLOW:
?C: This symbol, if defined, indicates that the compiler supports
?C: __builtin_mul_overflow for multiplying integers with overflow checks.
?C:.
?H:#$d_builtin_add_overflow
 HAS_BUILTIN_ADD_OVERFLOW /**/
?H:#$d_builtin_sub_overflow HAS_BUILTIN_SUB_OVERFLOW /**/
?H:#$d_builtin_mul_overflow HAS_BUILTIN_MUL_OVERFLOW /**/
?H:.
?F:!try
?LINT:set d_builtin_add_overflow d_builtin_sub_overflow d_builtin_mul_overflow
: Look for GCC-style __builtin_add_overflow
case "$d_builtin_add_overflow" in
")
   echo " "
   echo "Checking whether your compiler can handle __builtin_add_overflow ..." >&4
   $cat >try.c <<'EOCP'
int main(void) {
   const unsigned int uint_max = ~0u;
   int target_int = 0;
   if (__builtin_add_overflow(1, 2, &target_int) || target_int != 3) {
       return 1;
   }
   if (!__builtin_add_overflow((int)(uint_max >> 1), 1, &target_int)) {
       return 1;
   }
   if (!__builtin_add_overflow(uint_max, -1, &target_int)) {
       return 1;
   }
   return 0;
```

```
}
EOCP
  set try
  if eval $compile && $run ./try; then
      echo "Your C compiler supports __builtin_add_overflow."
      val="$define"
  else
      echo
 "Your C compiler doesn't seem to understand __builtin_add_overflow."
      val="$undef"
  fi
  ;;
*) val="$d_builtin_add_overflow" ;;
esac

set d_builtin_add_overflow
eval $setvar
$rm_try

: Look for GCC-style __builtin_sub_overflow
case "$d_builtin_sub_overflow" in
")
  echo " "
  echo "Checking whether your compiler can handle __builtin_sub_overflow ..." >&4
  $cat >try.c <<'EOCP'
int main(void) {
  const unsigned int uint_max = ~0u;
  int target_int = 0;
  if (__builtin_sub_overflow(1, -2, &target_int) || target_int != 3) {
      return 1;
  }
  if (!__builtin_sub_overflow(-(int)(uint_max >> 1), 2, &target_int)) {
      return 1;
  }
  if (!__builtin_sub_overflow(uint_max, 1, &target_int)) {
      return 1;
  }
  return 0;
}
EOCP
  set try
  if eval $compile && $run ./try; then
      echo "Your C compiler supports __builtin_sub_overflow."
      val="$define"
  else
      echo "Your C compiler doesn't seem to understand __builtin_sub_overflow."
       val="$undef"
  fi
```

```
  ;;
*) val="$d_builtin_sub_overflow" ;;
esac

set d_builtin_sub_overflow
eval $setvar
$rm_try

: Look for GCC-style __builtin_mul_overflow
case "$d_builtin_mul_overflow" in
")
  echo " "
  echo "Checking whether your compiler can handle __builtin_mul_overflow ..." >&4
  $cat >try.c <<'EOCP'
int main(void) {
  const unsigned int uint_max = ~0u;
  int target_int = 0;
  if (__builtin_mul_overflow(2, 3, &target_int) || target_int != 6) {
      return 1;
  }
  if (!__builtin_mul_overflow((int)(uint_max >> 1), 2, &target_int)) {
      return 1;
  }
  if (!__builtin_mul_overflow(uint_max, 1, &target_int)) {
      return 1;
  }
  return 0;
}
EOCP
  set try
  if eval $compile && $run ./try; then
      echo "Your C compiler supports __builtin_mul_overflow."
      val="$define"
  else
      echo "Your C compiler doesn't seem to understand __builtin_mul_overflow."
      val="$undef"
  fi
  ;;
*) val="$d_builtin_mul_overflow"
 ;;
esac

set d_builtin_mul_overflow
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/U/perl/d_builtin_overflow.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getgrent.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_getgrent.U,v $
?RCS:
?MAKE:d_getgrent: Inlibc
?MAKE: -pick add $@ %<
?S:d_getgrent:
?S: This variable conditionally defines the HAS_GETGRENT symbol, which
?S: indicates to the C program that the getgrent() routine is available
?S: for sequential access of the group database.
?S:.
?C:HAS_GETGRENT:
?C: This symbol, if defined, indicates that the getgrent routine is
?C: available for sequential access of the group database.
?C:.
?H:#$d_getgrent HAS_GETGRENT  /**/
?H:.
?LINT:set d_getgrent
: see if getgrent exists
set getgrent d_getgrent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_getgrent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_mprotect: Inlibc
?MAKE: -pick add $@ %<
?S:d_mprotect:
```

```
?S: This variable conditionally defines HAS_MPROTECT if mprotect() is
?S: available to modify the access protection of a memory mapped file.
?S:.
?C:HAS_MPROTECT:
?C: This symbol, if defined, indicates that the mprotect system call is
?C: available to modify the access protection of a memory mapped file.
?C:.
?H:#$d_mprotect HAS_MPROTECT  /**/
?H:.
?LINT:set d_mprotect
: see if mprotect exists
set mprotect d_mprotect
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_mprotect.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_newlocale d_freelocale d_uselocale d_duplocale d_querylocale i_xlocale: Inlibc Inhdr
?MAKE: -pick add $@ %<
?S:d_newlocale:
?S: This variable conditionally defines the HAS_NEWLOCALE symbol, which
?S: indicates to the C program that the newlocale() routine is available
?S: to return a new locale object or modify an existing locale object.
?S:.
?S:d_freelocale:
?S: This variable conditionally defines the HAS_FREELOCALE symbol, which
?S: indicates to the C program that the freelocale() routine is available
?S: to deallocates the resources associated with a locale object.
?S:.
?S:d_uselocale:
?S: This variable conditionally defines the HAS_USELOCALE symbol, which
?S: indicates to the C program that the uselocale() routine is available
?S: to set the current locale
 for the calling thread.
?S:.
?S:d_duplocale:
?S: This variable conditionally defines the HAS_DUPLOCALE symbol, which
?S: indicates to the C program that the duplocale() routine is available
?S: to duplicate a locale object.
?S:.
?S:d_querylocale:
?S: This variable conditionally defines the HAS_QUERYLOCALE symbol, which
?S: indicates to the C program that the querylocale() routine is available
```

```
?S: to return the name of the locale for a category mask.
?S:.
?S:i_xlocale:
?S: This symbol, if defined, indicates to the C program that it should
?S: include <xlocale.h> to get uselocale() and its friends
?S:.
?C:HAS_NEWLOCALE:
?C: This symbol, if defined, indicates that the newlocale routine is
?C: available to return a new locale object or modify an existing
?C: locale object.
?C:.
?C:HAS_FREELOCALE:
?C: This symbol, if defined, indicates that the freelocale routine is
?C: available to deallocates the resources associated with a locale object.
?C:.
?C:HAS_USELOCALE:
?C: This symbol, if defined,
 indicates that the uselocale routine is
?C: available to set the current locale for the calling thread.
?C:.
?C:HAS_DUPLOCALE:
?C: This symbol, if defined, indicates that the duplocale routine is
?C: available to duplicate a locale object.
?C:.
?C:HAS_QUERYLOCALE:
?C: This symbol, if defined, indicates that the querylocale routine is
?C: available to return the name of the locale for a category mask.
?C:.
?C:I_XLOCALE:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <xlocale.h> to get uselocale() and its friends.
?C:.
?H:#$d_newlocale HAS_NEWLOCALE /**/
?H:#$d_freelocale HAS_FREELOCALE /**/
?H:#$d_uselocale HAS_USELOCALE /**/
?H:#$d_duplocale HAS_DUPLOCALE /**/
?H:#$d_querylocale HAS_QUERYLOCALE /**/
?H:#$i_xlocale I_XLOCALE              /**/
?H:.
?LINT:set i_xlocale
?LINT:set d_newlocale
?LINT:set d_freelocale
?LINT:set d_uselocale
?LINT:set d_duplocale
?LINT:set d_querylocale
: see if this is an xlocale.h system
set xlocale.h i_xlocale
eval $inhdr
```

```
:
 see if newlocale exists
set newlocale d_newlocale
eval $inlibc

: see if freelocale exists
set freelocale d_freelocale
eval $inlibc

: see if uselocale exists
set uselocale d_uselocale
eval $inlibc

: see if duplocale exists
set duplocale d_duplocale
eval $inlibc

: see if querylocale exists
set querylocale d_querylocale
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_newlocale.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpwent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getpwent_r getpwent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_pwd extern_C
?MAKE: -pick add $@ %<
?S:d_getpwent_r:
?S: This variable conditionally defines the HAS_GETPWENT_R symbol,
?S: which indicates to the C program that the getpwent_r()
?S: routine is available.
?S:.
?S:getpwent_r_proto:
?S: This variable encodes the prototype of getpwent_r.
?S: It is zero if d_getpwent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getpwent_r
?S: is defined.
```

```
?S:.
?C:HAS_GETPWENT_R:
?C: This symbol, if defined, indicates that the getpwent_r routine
?C: is available to
 getpwent re-entrantly.
?C:.
?C:GETPWENT_R_PROTO:
?C: This symbol encodes the prototype of getpwent_r.
?C: It is zero if d_getpwent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getpwent_r
?C: is defined.
?C:.
?H:#$d_getpwent_r HAS_GETPWENT_R /**/
?H:#define GETPWENT_R_PROTO $getpwent_r_proto /**/
?H:.
?T:try hdrs d_getpwent_r_proto
: see if getpwent_r exists
set getpwent_r d_getpwent_r
eval $inlibc
case "$d_getpwent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_pwd pwd.h"
 case "$d_getpwent_r_proto:$usethreads" in
 ":define") d_getpwent_r_proto=define
  set d_getpwent_r_proto getpwent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getpwent_r_proto" in
 define)
 case "$getpwent_r_proto" in
 "|0) try='int getpwent_r(struct passwd*, char*, size_t, struct passwd**);'
 ./protochk "$extern_C $try" $hdrs && getpwent_r_proto=I_SBWR ;;
 esac
 case "$getpwent_r_proto" in
 "|0) try='int getpwent_r(struct passwd*, char*, int, struct passwd**);'
 ./protochk
 "$extern_C $try" $hdrs && getpwent_r_proto=I_SBIR ;;
 esac
 case "$getpwent_r_proto" in
 "|0) try='struct passwd* getpwent_r(struct passwd*, char*, size_t);'
 ./protochk "$extern_C $try" $hdrs && getpwent_r_proto=S_SBW ;;
 esac
 case "$getpwent_r_proto" in
 "|0) try='struct passwd* getpwent_r(struct passwd*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getpwent_r_proto=S_SBI ;;
 esac
 case "$getpwent_r_proto" in
```

```
"|0) try='int getpwent_r(struct passwd*, char*, int);'
./protochk "$extern_C $try" $hdrs && getpwent_r_proto=I_SBI ;;
esac
case "$getpwent_r_proto" in
"|0) try='int getpwent_r(struct passwd*, char*, int, FILE**);'
./protochk "$extern_C $try" $hdrs && getpwent_r_proto=I_SBIH ;;
esac
case "$getpwent_r_proto" in
"|0) d_getpwent_r=undef
 getpwent_r_proto=0
 echo "Disabling getpwent_r, cannot determine prototype." >&4 ;;
* ) case "$getpwent_r_proto" in
 REENTRANT_PROTO*) ;;
 *) getpwent_r_proto="REENTRANT_PROTO_$getpwent_r_proto" ;;
 esac
 echo
"Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "getpwent_r has no prototype, not using it." >&4 ;;
 esac
 d_getpwent_r=undef
 getpwent_r_proto=0
 ;;
esac
;;
*) getpwent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getpwent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: archlib.U,v 3.1 1999/07/08 18:32:29 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
```

```
?RCS:
?RCS: $Log: archlib.U,v $
?RCS: Revision 3.1  1999/07/08 18:32:29  doughera
?RCS: Updated for perl5.005_5x
?RCS:
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:15:18  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/02/15  14:14:14  ram
?RCS: patch51: architecture name is now
 computed by a separate unit
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:32:22  ram
?RCS: patch49: archname is now systematically recomputed
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:02:36  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_archlib archlib archlibexp installarchlib: \
 cat Getfile Setprefixvar Loc Oldconfig archname spackage  \
 privlib sed test Prefixit Prefixup binexp
?MAKE: -pick add $@ %<
?Y:TOP
?S:d_archlib:
?S: This variable conditionally defines ARCHLIB to hold the pathname
?S: of architecture-dependent library files for $package.  If
?S: $archlib is the same as $privlib, then this is set to undef.
?S:.
?D:archlib=''
?S:archlib:
?S: This variable holds the name of the directory in which the user wants
?S: to put architecture-dependent public library files for $package.
?S: It is most often a local directory such as /usr/local/lib.
?S: Programs using this variable must be prepared to deal
?S: with
 filename expansion.
?S:.
?D:archlibexp=''
?S:archlibexp:
?S: This variable is the same as the archlib variable, but is
?S: filename expanded at configuration time, for convenient use.
?S:.
?D:installarchlib=''
?S:installarchlib:
?S: This variable is really the same as archlibexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
```

```
?S: should be used in makefiles.
?S:.
?C:ARCHLIB:
?C: This variable, if defined, holds the name of the directory in
?C: which the user wants to put architecture-dependent public
?C: library files for $package.  It is most often a local directory
?C: such as /usr/local/lib.  Programs using this variable must be
?C: prepared to deal with filename expansion.  If ARCHLIB is the
?C: same as PRIVLIB, it is not defined, since presumably the
?C: program already searches PRIVLIB.
?C:.
?C:ARCHLIB_EXP:
?C: This symbol contains the ~name expanded version of ARCHLIB, to be used
?C: in programs that are not prepared to deal with ~ expansion
 at run-time.
?C:.
?H:#$d_archlib ARCHLIB "$archlib"  /**/
?H:#$d_archlib ARCHLIB_EXP "$archlibexp"  /**/
?H:.
?T: tdflt
?LINT:change prefixvar
?LINT:set archlib
?LINT:set archlibexp
?LINT:set installarchlib
: determine where public architecture dependent libraries go
set archlib archlib
eval $prefixit
: privlib default is /usr/local/lib/$package/$version
: archlib default is /usr/local/lib/$package/$version/$archname
: privlib may have an optional trailing /share.
tdflt=`echo $privlib | $sed 's,/share$,,'`
tdflt=$tdflt/$archname
case "$archlib" in
") dflt=$tdflt
 ;;
*) dflt="$archlib"
   ;;
esac
$cat <<EOM

$spackage contains architecture-dependent library files.  If you are
sharing libraries in a heterogeneous environment, you might store
these files in a separate location.  Otherwise, you can just include
them with the rest of the public library files.

EOM
?X: Force dependency on bin.U
fn=$binexp
```

```
fn=d+~
rp='Where do you want to put the public architecture-dependent libraries?'
.
 ./getfile
prefixvar=archlib
. ./setprefixvar
if $test X"$archlib" = X"$privlib"; then
 d_archlib="$undef"
else
 d_archlib="$define"
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/archlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_xdrs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_xdrs.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_xdrs: cat Csym Setvar
?MAKE: -pick add $@ %<
?S:d_xdrs:
?S: This symbol conditionally defines HAS_XDRS which indicates to the C
?S: program that XDR serialization routines are available.
?S:.
?C:HAS_XDRS (XDRS):
?C: This symbol if defined indicates to the C program that the XDR
?C: serialization routines are available to transfer data
 accross
?C: various architectures.
?C:.
?H:#$d_xdrs HAS_XDRS /**/
?H:.
?LINT:set d_xdrs
: see if XDR is available
echo " "
```

```
if set xdr_int val -f d_xdrs; eval $csym; $val; then
 echo "Ahh! You have XDR routines for network communications." >&4
 val="$define"
else
 $cat >&4 <<EOM
Sigh! You do not have XDR routines -- Network communications may be hazardous.
EOM
 val="$undef"
fi
set d_xdrs
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_xdrs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: lintlib.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: lintlib.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lintlib lintlibexp: Getfile Loc Oldconfig
?MAKE: -pick add $@ %<
?S:lintlib:
?S: This variable holds the name of the directory in which the user wants
?S: to put public lint-library files for the package in question.  It is
?S: most often a local directory such as /usr/local/lib/lint. Programs using
?S: this variable must be prepared to
 deal with ~name expansion.
?S:.
?S:lintlibexp:
?S: This variable is the same as the lintlib variable, but is filename
?S: expanded at configuration time, for convenient use in your makefiles.
?S:.
: determine where public lint libraries go
case "$lintlib" in
") dflt=`./loc . "." /usr/local/lib/lint /usr/lib/lint /usr/lib`;;
*) dflt="$lintlib" ;;
```

```
esac
echo " "
fn=d~
rp='Where do you want to put the public lint libraries?'
. ./getfile
lintlib="$ans"
lintlibexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/lintlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_shm.U,v 3.0 1993/08/18 12:07:17 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_shm.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_shm: test d_shmctl d_shmget d_shmat d_shmdt Setvar Findhdr osname
?MAKE: -pick add $@ %<
?S:d_shm:
?S: This variable conditionally defines the HAS_SHM symbol, which
?S: indicates that the entire shm*(2) library is present.
?S:.
?C:HAS_SHM:
?C: This symbol, if defined, indicates that the entire shm*(2) library is
?C: supported.
?C:.
?H:#$d_shm HAS_SHM  /**/
?H:.
?T:h_shm
?LINT:set
 d_shm
: see how much of the 'shm*(2)' library is present.
h_shm=true
echo " "
case "$d_shmctl$d_shmget$d_shmat$d_shmdt" in
*"$undef"*) h_shm=false;;
esac
```

```
case "$osname" in
freebsd)
   case "`ipcs 2>&1`" in
   "SVID shared memory"*"not configured"*)
 echo "Your $osname does not have the shm*(2) configured." >&4
       h_shm=false
 val="$undef"
 set shmctl d_shmctl
 eval $setvar
 set shmget d_shmget
 eval $setvar
 set shmat d_shmat
 eval $setvar
 set shmdt d_shmdt
 eval $setvar
 ;;
   esac
   ;;
esac
: we could also check for sys/ipc.h ...
if $h_shm && $test `./findhdr sys/shm.h`; then
 echo "You have the full shm*(2) library." >&4
 val="$define"
else
 echo "You don't have the full shm*(2) library." >&4
 val="$undef"
fi
set d_shm
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_shm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libperl.U,v $
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:libperl useshrplib shrpenv ldlibpthname: \
 Myread Oldconfig archlibexp awk cat libc \
 _a osname osvers so patchlevel subversion usedl ld \
 ccdlflags installarchlib userelocatableinc
?MAKE: -pick wipe $@ %<
?S:libperl:
```

```
?S: The perl executable is obtained by linking perlmain.c with
?S: libperl, any static extensions (usually just DynaLoader),
?S: and any other libraries needed on this system.  libperl
?S: is usually libperl.a, but can also be libperl.so.xxx if
?S: the user wishes to build a perl executable with a shared
?S: library.
?S:.
?S:useshrplib:
?S: This variable is set to 'true' if the user wishes
?S: to build a shared libperl, and 'false' otherwise.
?S:.
?S:shrpenv:
?S: If
 the user builds a shared libperl.so, then we need to tell the
?S: 'perl' executable where it will be able to find the installed libperl.so.
?S: One way to do this on some systems is to set the environment variable
?S: LD_RUN_PATH to the directory that will be the final location of the
?S: shared libperl.so.  The makefile can use this with something like
?S:  $shrpenv $(CC) -o perl perlmain.o $libperl $libs
?S: Typical values are
?S:  shrpenv="env LD_RUN_PATH=$archlibexp/CORE"
?S: or
?S:  shrpenv="
?S: See the main perl Makefile.SH for actual working usage.
?S:
?S: Alternatively, we might be able to use a command line option such
?S: as -R $archlibexp/CORE (Solaris) or -Wl,-rpath
?S: $archlibexp/CORE (Linux).
?S:.
?S:ldlibpthname:
?S: This variable holds the name of the shared library
?S: search path, often LD_LIBRARY_PATH.  To get an empty
?S: string, the hints file must set this to 'none'.
?S:.
?T:shrpdir majonly majmin also xxx tmp_shrpenv
?X: metalint gets confused and thinks we're
 actually setting LDOPTS
?X: and LD_RUN_PATH.
?LINT:extern LDOPTS
?LINT:change LDOPTS
?LINT:extern LD_RUN_PATH
?LINT:change LD_RUN_PATH
?LINT:change ccdlflags
?LINT:extern maintloc maintname
?Y:top
: Do we want a shared libperl?
also="
case "$usedl" in
```

```
$undef)
 # No dynamic loading being used, so don't bother even to prompt.
 useshrplib='false'
 ;;
*) case "$useshrplib" in
 ") case "$osname" in
  svr4*|nonstopux|dgux|dynixptx|esix|powerux|haiku|cygwin*)
   dflt=y
   also='Building a shared libperl is required for dynamic loading to work on your system.'
   ;;
  *) dflt=n
   ;;
  esac
  ;;
 $define|true|[Yy]*)
  dflt=y
  ;;
 *) dflt=n
  ;;
 esac
 $cat << EOM

The perl executable is normally obtained by linking perlmain.c with
libperl${_a}, any static extensions (usually just DynaLoader), and
any other libraries needed on this system (such as -lm, etc.).  Since
your system supports dynamic loading, it is probably possible to build
a shared libperl.$so.  If you will have more than one
 executable linked
to libperl.$so, this will significantly reduce the size of each
executable, but it may have a noticeable effect on performance.  The
default is probably sensible for your system.
$also

EOM
 rp="Build a shared libperl.$so (y/n)"
 . ./myread
 case "$ans" in
 true|$define|[Yy]*)
  useshrplib='true'  ;;
 *) useshrplib='false' ;;
 esac
 ;;
esac

case "$useshrplib" in
true)
 case "$userelocatableinc" in
 true|define)
```

```
 echo "Cannot build with both -Duserelocatableinc and -Duseshrplib" >&4
 echo "See INSTALL for an explanation why that won't work." >&4
 exit 4
 ;;
esac
case "$libperl" in
")
 # Figure out a good name for libperl.so.  Since it gets stored in
 # a version-specific architecture-dependent library, the version
 # number isn't really that important, except for making cc/ld happy.
 #
 # A name such as libperl.so.10.1
 majmin="libperl.$so.$patchlevel.$subversion"
 # A name such as libperl.so.100
 majonly=`echo $patchlevel $subversion |
  $awk '{printf
"%d%02d", $1, $2}'`
 majonly=libperl.$so.$majonly
 # I'd prefer to keep the os-specific stuff here to a minimum, and
 # rely on figuring it out from the naming of libc.
 case "${osname}${osvers}" in
 *linux*|gnu*)  # ld won't link with a bare -lperl otherwise.
  dflt=libperl.$so
  ;;
 cygwin*) # ld links now against the dll directly
  majmin="cygperl5_${patchlevel}_${subversion}.${so}"
  majonly=`echo $patchlevel $subversion |
   $awk '{printf "%03d%03d", $1, $2}'`
  majonly=cygperl5.$majonly.$so
  dflt=$majmin
  ;;
 *) # Try to guess based on whether libc has major.minor.
  case "$libc" in
  *libc.$so.[0-9]*.[0-9]*) dflt=$majmin ;;
  *libc.$so.[0-9]*) dflt=$majonly ;;
  *) dflt=libperl.$so ;;
  esac
  ;;
 esac
 ;;
*) dflt=$libperl
 ;;
esac
cat << EOM

I need to select a good name for the shared libperl.  If your system uses
library names with major and minor numbers, then you might want something
like $majmin.  Alternatively, if your system uses a single
```

```
 version
number for shared libraries, then you might want to use $majonly.
Or, your system might be quite happy with a simple libperl.$so.

Since the shared libperl will get installed into a version-specific
architecture-dependent directory, the version number of the shared perl
library probably isn't important, so the default should be o.k.

EOM
 rp='What name do you want to give to the shared libperl?'
 . ./myread
 libperl=$ans
 echo "Ok, I'll use $libperl"
 ;;
*)
 libperl="libperl${_a}"
 ;;
esac

# Detect old use of shrpdir via undocumented Configure -Dshrpdir
case "$shrpdir" in
") ;;
*) $cat >&4 <<EOM
WARNING:  Use of the shrpdir variable for the installation location of
the shared $libperl is not supported.  It was never documented and
will not work in this version.  Let me (<$maintloc>)
know of any problems this may cause.

EOM
 case "$shrpdir" in
 "$archlibexp/CORE")
  $cat >&4 <<EOM
But your current setting of $shrpdir is
the default anyway, so it's harmless.
EOM
  ;;
 *)
  $cat
 >&4 <<EOM
Further, your current attempted setting of $shrpdir
conflicts with the value of $archlibexp/CORE
that installperl will use.
EOM
  ;;
 esac
 ;;
esac
```

```
# How will the perl executable find the installed shared $libperl?
# Add $xxx to ccdlflags.
# If we can't figure out a command-line option, use $shrpenv to
# set env LD_RUN_PATH.  The main perl makefile uses this.
shrpdir=$archlibexp/CORE
xxx=''
tmp_shrpenv=''
if "$useshrplib"; then
   case "$osname" in
 aix)
  # We'll set it in Makefile.SH...
  ;;
 solaris)
  xxx="-R $shrpdir"
  ;;
 freebsd|minix|mirbsd|netbsd|openbsd|interix|dragonfly|bitrig)
  xxx="-Wl,-R$shrpdir"
  ;;
 bsdos|linux|irix*|dec_osf|gnu*|haiku)
  xxx="-Wl,-rpath,$shrpdir"
  ;;
 hpux*)
  # hpux doesn't like the default, either.
  tmp_shrpenv="env LDOPTS=\"+s +b${shrpdir}\""
  ;;
 cygwin)
  # cygwin needs only ldlibpth
  ;;
 *)
  tmp_shrpenv="env LD_RUN_PATH=$shrpdir"
  ;;
 esac
 case "$xxx" in
 '') ;;
 *)
  # Only add $xxx if it isn't already in ccdlflags.
  case
 " $ccdlflags " in
  *" $xxx "*) ;;
  *) ccdlflags="$ccdlflags $xxx"
   cat <<EOM >&4

Adding $xxx to the flags
passed to $ld so that the perl executable will find the
installed shared $libperl.

EOM
   ;;
```

```
  esac
  ;;
 esac
fi
# Fix ccdlflags in AIX for building external extensions.
# (For building Perl itself bare -bE:perl.exp is needed,
#  Makefile.SH takes care of this.)
case "$osname" in
aix) ccdlflags="$ccdlflags -bE:$installarchlib/CORE/perl.exp" ;;
esac
# Respect a hint or command-line value.
case "$shrpenv" in
") shrpenv="$tmp_shrpenv" ;;
esac
case "$ldlibpthname" in
") ldlibpthname=LD_LIBRARY_PATH ;;
none) ldlibpthname=" ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/libperl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: nlist_pfx.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: nlist_pfx.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:26:18  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:25  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:nlist_pfx nlist_fnd: cat test Myread Oldconfig libnlist \
 +cc +ccflags
?MAKE: -pick add $@ %<
?S:nlist_pfx:
?S: This variable holds any characters which precede the symbol name
?S: when doing an nlist search.
?S:.
```

```
?S:nlist_fnd:
?S: This
 variable holds the member of the nlist structure which is
?S: nonzero if an nlist search succeeds.  Presently, it is always "n_value".
?S:.
?C:NLIST_PREFIX:
?C: This manifest constant holds the string of characters which should
?C: precede the symbol name when doing an nlist search.
?C:.
?C:NLIST_FOUND:
?C: This manifest constant holds the member of the nlist structure which
?C: is nonzero if an nlist search succeeds.
?C:.
?H:#define NLIST_PREFIX $nlist_pfx /**/
?H:#define NLIST_FOUND $nlist_fnd /**/
?H:.
?F:!nlisttest
?T:nlist_loc
: Nose around for nlist stuff
echo " "
echo "Checking out nlist stuff..." >&4
$cat >nlisttest.c <<'EOCP'
#include <stdio.h>
#include <nlist.h>

main(argc, argv)
int argc;
char **argv;
{
 int (*loc)();
 extern int hereIam();
 static struct nlist nl[] = {
  { "IamNotFound", 0 },
  { "hereIam", 0 },
  { "_hereIam", 0 },
  { ".hereIam", 0 },
  { "", 0 }
 };

 loc = hereIam;

 if(argc == 1) {
  printf("%ld\n", loc);}
 else {
  int i;
  int rc;

  if(nlist("./nlisttest",
```

```
 nl) == -1) exit(-1);
  i = argv[1][0] - '0';
  printf("%d %d %d\n", nl[i].n_name, nl[i].n_type, nl[i].n_value);
  }
 exit(0);}

int hereIam() {

 return;}
EOCP
nlist_fnd=n_value
if $cc $ccflags -o nlisttest nlisttest.c $libnlist >/dev/null 2>&1 ; then
 set `./nlisttest`
 nlist_loc=$1

 set `./nlisttest 0`
 if $test "$3" = "0" ; then
  echo "$nlist_fnd is 0 if nlist() fails, as I expected."
 else
  $cat <<EOM
Hello, Jim.  We have just discovered that $nlist_fnd was nonzero on an
nlist() lookup failure!  Your mission, should you choose to accept it, is to
edit either config.sh (to provide a Good value for nlist_fnd) or The Code
(to find an alternative to NLIST_FOUND), and reporting the full details of
your success to the MetaConfig Police.  Of course, should you fail...
EOM
  nlist_fnd="/* Bletch! */ */"
 fi

 set `./nlisttest 1`
 if $test "$nlist_loc" = "$3" ; then
  echo "Symbols are stored with no initial characters."
  nlist_pfx=
 else
  set `./nlisttest 2`
  if
 $test "$nlist_loc" = "$3" ; then
   echo "Symbols are stored with an initial underscore."
   nlist_pfx=_
  else
   set `./nlisttest 3`
   if $test "$nlist_loc" = "$3" ; then
    echo "Symbols are stored with an initial dot."
    nlist_pfx=.
   else
    $cat <<EOM
I can't figure out the symbol prefix!
You get to edit config.sh and fix 'nlist_pfx' (Configure will let you do this
```

```
at the end of its configuration questions), or config.h and fix the value of
the NLIST_PREFIX symbol.
EOM
    nlist_pfx="/* Bletch! */ */"
   fi
  fi
 fi
else
 $cat <<EOM
I can't get the nlist test program working!
You get to edit config.sh and fix 'nlist_pfx' (Configure will let you do this
at the end of its configuration questions) and 'nlist_fnd', or config.h and
fix the value of the NLIST_PREFIX and NLIST_FOUND symbols.
EOM
 nlist_pfx="/* Bletch! */ */"
 nlist_fnd="/* Bletch! */ */"
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/nlist_pfx.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sigaction.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:44:29  ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_sigaction: Csym Setvar cat cc ccflags ldflags libs rm _o
?MAKE: -pick add $@ %<
?S:d_sigaction:
?S: This variable conditionally defines the HAS_SIGACTION symbol, which
?S: indicates that the Vr4 sigaction() routine is available.
?S:.
?C:HAS_SIGACTION:
?C: This symbol, if defined, indicates that Vr4's sigaction() routine
?C: is available.
?C:.
```

```
?H:#$d_sigaction HAS_SIGACTION /**/
?H:.
?T:val
?LINT:set
 d_sigaction
: see if we have sigaction
echo " "
if set sigaction val -f d_sigaction; eval $csym; $val; then
 echo 'sigaction() found.' >&4
 val="$define"
else
 echo 'sigaction NOT found.' >&4
 val="$undef"
fi
?X:
?X: Solaris 2.5_x86 with SunWorks Pro C 3.0.1 doesn't have a complete
?X: sigaction structure if compiled with cc -Xc.  This compile test
?X: will fail then.  <doughera@lafcol.lafayette.edu>
?X:
$cat > set.c <<'EOP'
#include <stdio.h>
#include <sys/types.h>
#include <signal.h>
int main()
{
   struct sigaction act, oact;
}
EOP
if $cc $ccflags $ldflags -o set set.c $libs >/dev/null 2>&1; then
 :
else
 echo "But you don't seem to have a useable struct sigaction." >&4
 val="$undef"
fi
set d_sigaction; eval $setvar
$rm -f set set$_o set.c
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sigaction.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getnetbyaddr_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
```

```
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getnetbyaddr_r getnetbyaddr_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getnetbyaddr_r:
?S: This variable conditionally defines the HAS_GETNETBYADDR_R symbol,
?S: which indicates to the C program that the getnetbyaddr_r()
?S: routine is available.
?S:.
?S:getnetbyaddr_r_proto:
?S: This variable encodes the prototype of getnetbyaddr_r.
?S: It is zero if d_getnetbyaddr_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getnetbyaddr_r
?S: is defined.
?S:.
?C:HAS_GETNETBYADDR_R:
?C: This symbol, if defined, indicates that
 the getnetbyaddr_r routine
?C: is available to getnetbyaddr re-entrantly.
?C:.
?C:GETNETBYADDR_R_PROTO:
?C: This symbol encodes the prototype of getnetbyaddr_r.
?C: It is zero if d_getnetbyaddr_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getnetbyaddr_r
?C: is defined.
?C:.
?H:#$d_getnetbyaddr_r HAS_GETNETBYADDR_R /**/
?H:#define GETNETBYADDR_R_PROTO $getnetbyaddr_r_proto /**/
?H:.
?T:try hdrs d_getnetbyaddr_r_proto
: see if getnetbyaddr_r exists
set getnetbyaddr_r d_getnetbyaddr_r
eval $inlibc
case "$d_getnetbyaddr_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getnetbyaddr_r_proto:$usethreads" in
 ":define") d_getnetbyaddr_r_proto=define
  set d_getnetbyaddr_r_proto getnetbyaddr_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getnetbyaddr_r_proto" in
 define)
 case "$getnetbyaddr_r_proto" in
 "|0) try='int getnetbyaddr_r(unsigned long, int, struct netent*, char*, size_t, struct netent**, int*);'
 ./protochk
```

```
"$extern_C $try" $hdrs && getnetbyaddr_r_proto=I_UISBWRE ;;
esac
case "$getnetbyaddr_r_proto" in
"|0) try='int getnetbyaddr_r(long, int, struct netent*, char*, int);'
./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=I_LISBI ;;
esac
case "$getnetbyaddr_r_proto" in
"|0) try='struct netent* getnetbyaddr_r(in_addr_t, int, struct netent*, char*, int);'
./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=S_TISBI ;;
esac
case "$getnetbyaddr_r_proto" in
"|0) try='struct netent* getnetbyaddr_r(long, int, struct netent*, char*, int);'
./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=S_LISBI ;;
esac
case "$getnetbyaddr_r_proto" in
"|0) try='int getnetbyaddr_r(in_addr_t, int, struct netent*, struct netent_data*);'
./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=I_TISD ;;
esac
case "$getnetbyaddr_r_proto" in
"|0) try='int getnetbyaddr_r(long, int, struct netent*, struct netent_data*);'
./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=I_LISD
;;
esac
case "$getnetbyaddr_r_proto" in
"|0) try='int getnetbyaddr_r(int, int, struct netent*, struct netent_data*);'
./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=I_IISD ;;
esac
case "$getnetbyaddr_r_proto" in
"|0) try='int getnetbyaddr_r(uint32_t, int, struct netent*, char*, size_t, struct netent**, int*);'
./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=I_uISBWRE ;;
esac
case "$getnetbyaddr_r_proto" in
"|0) d_getnetbyaddr_r=undef
 getnetbyaddr_r_proto=0
 echo "Disabling getnetbyaddr_r, cannot determine prototype." >&4 ;;
* ) case "$getnetbyaddr_r_proto" in
 REENTRANT_PROTO*) ;;
 *) getnetbyaddr_r_proto="REENTRANT_PROTO_$getnetbyaddr_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "getnetbyaddr_r has no prototype, not using it." >&4 ;;
 esac
 d_getnetbyaddr_r=undef
 getnetbyaddr_r_proto=0
 ;;
```

```
 esac
 ;;
*) getnetbyaddr_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getnetbyaddr_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fgetpos.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_fgetpos.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  06:57:33  ram
?RCS: patch30: created
?RCS:
?MAKE:d_fgetpos: Inlibc
?MAKE: -pick add $@ %<
?S:d_fgetpos:
?S: This variable conditionally defines HAS_FGETPOS if fgetpos() is
?S: available to get the file position indicator.
?S:.
?C:HAS_FGETPOS:
?C: This symbol, if defined, indicates that the fgetpos routine is
?C: available to get the file position indicator, similar to ftell().
?C:.
?H:#$d_fgetpos
 HAS_FGETPOS /**/
?H:.
?LINT:set d_fgetpos
: see if fgetpos exists
set fgetpos d_fgetpos
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_fgetpos.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_statblks.U,v 3.0 1993/08/18 12:07:29 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_statblks.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:29  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_statblks: Hasfield i_sysstat
?MAKE: -pick add $@ %<
?S:d_statblks:
?S: This variable conditionally defines USE_STAT_BLOCKS
?S: if this system has a stat structure declaring
?S: st_blksize and st_blocks.
?S:.
?C:USE_STAT_BLOCKS (STATBLOCKS):
?C: This symbol is defined if this system has a stat structure declaring
?C: st_blksize and st_blocks.
?C:.
?H:?%<:#ifndef
 USE_STAT_BLOCKS
?H:?%<:#$d_statblks USE_STAT_BLOCKS /**/
?H:?%<:#endif
?H:.
?LINT:set d_statblks
: see if stat knows about block sizes
echo " "
echo "Checking to see if your struct stat has st_blocks field..." >&4
set d_statblks stat st_blocks $i_sysstat sys/stat.h
eval $hasfield
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_statblks.U
No license file was found, but licenses were detected in source scan.

```
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```

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: scriptdir.U,v $
?RCS: Revision 3.0.1.3  1995/09/25  09:17:15  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:46:13  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:32:04  ram
?RCS: patch32: now uses installation prefix
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:scriptdir scriptdirexp installscript:
 afs cat test Getfile Loc \
 Oldconfig +bin Prefixit prefixexp Prefixup
?MAKE: -pick add $@ %<
?Y:TOP
?S:scriptdir:
?S: This variable holds the name of the directory in which the user wants
?S: to put publicly scripts for the package in question.  It is either
?S: the same directory as for binaries, or a special one that can be
?S: mounted across different architectures, like /usr/share. Programs
?S: must be prepared to deal with ~name expansion.
?S:.
?S:scriptdirexp:
?S: This variable is the same as scriptdir, but is filename expanded
?S: at configuration time, for programs not wanting to bother with it.
?S:.
?S:installscript:
?S: This variable is usually the same as scriptdirexp, unless you are on
?S: a system running AFS, in which case they may differ slightly. You
?S: should always use this variable within your makefiles for portability.
?S:.
?C:SCRIPTDIR:
?C: This symbol holds the name of the directory in which the user wants
?C: to put publicly executable scripts for the
 package in question.  It
?C: is often a directory that is mounted across diverse architectures.
?C: Programs must be prepared to deal with ~name expansion.
?C:.
?C:SCRIPTDIR_EXP:
?C: This is the same as SCRIPTDIR, but is filename expanded at
?C: configuration time, for use in programs not prepared to do
```

```
?C: ~name substitutions at run-time.
?C:.
?H:#define SCRIPTDIR "$scriptdir" /**/
?H:#define SCRIPTDIR_EXP "$scriptdirexp" /**/
?H:.
: determine where public executable scripts go
set scriptdir scriptdir
eval $prefixit
case "$scriptdir" in
")
 dflt="$bin"
 : guess some guesses
 $test -d /usr/share/scripts && dflt=/usr/share/scripts
 $test -d /usr/share/bin && dflt=/usr/share/bin
 $test -d /usr/local/script && dflt=/usr/local/script
 $test -d $prefixexp/script && dflt=$prefixexp/script
 set dflt
 eval $prefixup
 ;;
*)  dflt="$scriptdir"
 ;;
esac
$cat <<EOM

Some installations have a separate directory just for executable scripts so
that they can mount it across multiple architectures but
 keep the scripts in
one spot.  You might, for example, have a subdirectory of /usr/share for this.
Or you might just lump your scripts in with all your other executables.

EOM
fn=d~
rp='Where do you keep publicly executable scripts?'
. ./getfile
if $test "X$ansexp" != "X$scriptdirexp"; then
 installscript=''
fi
scriptdir="$ans"
scriptdirexp="$ansexp"
if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
scripts reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installscript" in
```

```
 ") dflt=`echo $scriptdirexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installscript";;
 esac
 fn=de~
 rp='Where will public scripts be installed?'
 . ./getfile
 installscript="$ans"
else
 installscript="$scriptdirexp"
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/scriptdir.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_eofpipe.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:12:40  ram
?RCS: patch36: call ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_eofpipe: cat +cc +ccflags +libs rm Oldconfig Guess echo n c
?MAKE: -pick add $@ %<
?S:d_eofpipe:
?S: This variable conditionally defines the EOFPIPE symbol, which
?S: indicates to the C program that select will correctly detect the EOF
?S: condition when pipe
 is closed from the other end.
?S:.
?C:EOFPIPE:
?C: This symbol, if defined, indicates that EOF condition will be detected
?C: by the reader of the pipe when it is closed by the writing process.
?C: That is, a select() call on that file descriptor will not block when
?C: only an EOF remains (typical behaviour for BSD systems).
?C:.
?H:#$d_eofpipe EOFPIPE  /**/
```

```
?H:.
?F:!mpipe
: see if pipe correctly gives the EOF condition
echo " "
case "$d_eofpipe" in
")
 echo "Let's see if your pipes return EOF to select() upon closing..." >&4
 $cat >pipe.c <<'EOP'
int main()
{
 int pd[2];
 int mask;

 pipe(pd);
 if (0 == fork()) {
  close(pd[0]);
  close(pd[1]);
  exit(0);
 }

 close(pd[1]);
 mask = 1 << pd[0];
 alarm(2);
 select(32, &mask, (int *) 0, (int *) 0, (char *) 0);
 if (0 == read(pd[0], &mask, 1))
  exit(0);

 exit(1);
}
EOP
 if $cc $ccflags -o pipe pipe.c $libs >/dev/null 2>&1; then
?X: Use a script to avoid the possible 'alarm call' message
  echo "./pipe || exit 1" > mpipe
  chmod +x
 mpipe
  ./mpipe >/dev/null 2>&1
  case $? in
  0) d_eofpipe="$define";;
  *) d_eofpipe="$undef";;
  esac
 else
  echo "(The test program did not compile correctly -- Guessing.)"
  if ./bsd; then
   d_eofpipe="$define"
  else
   d_eofpipe="$undef"
  fi
 fi
```

```
 case "$d_eofpipe" in
 "$define") echo "Yes, they do.";;
 *) echo "No, they don't! (sigh)";;
 esac
 ;;
*)
 $echo $n "Your pipes $c"
 case "$d_eofpipe" in
 "$define") echo "allow select() to see EOF upon closing.";;
 *) echo "won't let select() see EOF on closing.";;
 esac
 ;;
esac
$rm -f *pipe* core
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_eofpipe.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sitearch.U,v 3.1 1999/07/08 18:32:29 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sitearch.U,v $
?RCS: Revision 3.1  1999/07/08 18:32:29  doughera
?RCS: Updated for perl5.005_5x
?RCS:
?RCS: Revision 3.0.1.1  1997/02/28  16:21:30  ram
?RCS: patch61: created
?RCS:
?MAKE:sitearch sitearchexp installsitearch d_sitearch: cat sed Getfile \
 Oldconfig Setprefixvar Prefixit test archname sitelib
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitearch="
?S:sitearch:
?S: This variable contains the eventual
 value of the SITEARCH symbol,
?S: which is the name of the private library for this package.  It may
?S: have a ~ on the front. It is up to the makefile to eventually create
```

```
?S: this directory while performing installation (with ~ substitution).
?S: The standard distribution will put nothing in this directory.
?S: After perl has been installed, users may install their own local
?S: architecture-dependent modules in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitearchexp="
?S:sitearchexp:
?S: This variable is the ~name expanded version of sitearch, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installsitearch="
?S:installsitearch:
?S: This variable is really the same as sitearchexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?D:d_sitearch="
?S:d_sitearch:
?S: This variable conditionally defines SITEARCH to hold the
 pathname
?S: of architecture-dependent library files for $package.  If
?S: $sitearch is the same as $archlib, then this is set to undef.
?S:.
?C:SITEARCH:
?C: This symbol contains the name of the private library for this package.
?C: The library is private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.  The program
?C: should be prepared to do ~ expansion.
?C: The standard distribution will put nothing in this directory.
?C: After perl has been installed, users may install their own local
?C: architecture-dependent modules in this directory with
?C:  MakeMaker Makefile.PL
?C: or equivalent.  See INSTALL for details.
?C:.
?C:SITEARCH_EXP:
?C: This symbol contains the ~name expanded version of SITEARCH, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#$d_sitearch SITEARCH "$sitearch"  /**/
?H:#$d_sitearch SITEARCH_EXP "$sitearchexp"  /**/
?H:.
?LINT:change prefixvar
?LINT:set installsitearch
?LINT:set
 sitearch
?LINT:set sitearchexp
```

```
: determine where site specific architecture-dependent libraries go.
: sitelib  default is /usr/local/lib/perl5/site_perl/$version
: sitearch default is /usr/local/lib/perl5/site_perl/$version/$archname
: sitelib may have an optional trailing /share.
case "$sitearch" in
") dflt=`echo $sitelib | $sed 's,/share$,,'`
 dflt="$dflt/$archname"
 ;;
*) dflt="$sitearch"
 ;;
esac
set sitearch sitearch none
eval $prefixit
$cat <<EOM

The installation process will also create a directory for
architecture-dependent site-specific extensions and modules.

EOM
fn=d~+
rp='Pathname for the site-specific architecture-dependent library files?'
. ./getfile
prefixvar=sitearch
. ./setprefixvar
if $test X"$sitearch" = X"$sitelib"; then
 d_sitearch="$undef"
else
 d_sitearch="$define"
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/sitearch.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:usefaststdio: Myread Oldconfig Setvar rsrc
?MAKE: -pick add $@ %<
?Y:TOP
?S:usefaststdio:
?S: This variable conditionally defines the USE_FAST_STDIO symbol,
?S: and indicates that Perl should be built to use 'fast stdio'.
```

```
?S: Defaults to define in Perls 5.8 and earlier, to undef later.
?S:.
?C:USE_FAST_STDIO:
?C: This symbol, if defined, indicates that Perl should
?C: be built to use 'fast stdio'.
?C: Defaults to define in Perls 5.8 and earlier, to undef later.
?C:.
?H:?%<:#ifndef USE_FAST_STDIO
?H:?%<:#$usefaststdio USE_FAST_STDIO  /**/
?H:?%<:#endif
?H:.
?T:xversion
?LINT:set usefaststdio
: Check if faststdio is requested and available
case "$usefaststdio" in
$define|true|[yY]*|")
 xversion=`awk
 '/define[  ]+PERL_VERSION/ {print $3}' $rsrc/patchlevel.h`
 case "$xversion" in
 [68]) dflt='y' ;;
 *) dflt='n' ;;
 esac
 ;;
*) dflt='n';;
esac
cat <<EOM

Perl can be built to use 'fast stdio', which means using the stdio
library but also directly manipulating the stdio buffers to enable
faster I/O.  Using stdio is better for backward compatibility (especially
for Perl extensions), but on the other hand since Perl 5.8 the 'perlio'
interface has been preferred instead of stdio.

If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp='Use the "fast stdio" if available?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*)      val="$undef" ;;
esac
set usefaststdio
eval $setvar

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-
5.34.0/U/perl/usefaststdio.U
```

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```
?RCS: $Id: d_gethostbyname_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_gethostbyname_r gethostbyname_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_gethostbyname_r:
?S: This variable conditionally defines the HAS_GETHOSTBYNAME_R symbol,
?S: which indicates to the C program that the gethostbyname_r()
?S: routine is available.
?S:.
?S:gethostbyname_r_proto:
?S: This variable encodes the prototype of gethostbyname_r.
?S: It is zero if d_gethostbyname_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gethostbyname_r
?S: is defined.
?S:.
?C:HAS_GETHOSTBYNAME_R:
?C: This symbol, if defined, indicates
 that the gethostbyname_r routine
?C: is available to gethostbyname re-entrantly.
?C:.
?C:GETHOSTBYNAME_R_PROTO:
?C: This symbol encodes the prototype of gethostbyname_r.
?C: It is zero if d_gethostbyname_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gethostbyname_r
?C: is defined.
?C:.
?H:#$d_gethostbyname_r HAS_GETHOSTBYNAME_R /**/
?H:#define GETHOSTBYNAME_R_PROTO $gethostbyname_r_proto /**/
?H:.
?T:try hdrs d_gethostbyname_r_proto
: see if gethostbyname_r exists
set gethostbyname_r d_gethostbyname_r
eval $inlibc
case "$d_gethostbyname_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_gethostbyname_r_proto:$usethreads" in
 ":define") d_gethostbyname_r_proto=define
  set d_gethostbyname_r_proto gethostbyname_r $hdrs
```

```
 eval $hasproto ;;
*) ;;
esac
case "$d_gethostbyname_r_proto" in
define)
case "$gethostbyname_r_proto" in
"|0) try='int gethostbyname_r(const char*, struct hostent*, char*, size_t, struct
hostent**, int*);'
./protochk "$extern_C $try" $hdrs && gethostbyname_r_proto=I_CSBWRE ;;
esac
case "$gethostbyname_r_proto" in
"|0) try='struct hostent* gethostbyname_r(const char*, struct hostent*, char*, int, int*);'
./protochk "$extern_C $try" $hdrs && gethostbyname_r_proto=S_CSBIE ;;
esac
case "$gethostbyname_r_proto" in
"|0) try='int gethostbyname_r(const char*, struct hostent*, struct hostent_data*);'
./protochk "$extern_C $try" $hdrs && gethostbyname_r_proto=I_CSD ;;
esac
case "$gethostbyname_r_proto" in
"|0) d_gethostbyname_r=undef
 gethostbyname_r_proto=0
 echo "Disabling gethostbyname_r, cannot determine prototype." >&4 ;;
* ) case "$gethostbyname_r_proto" in
 REENTRANT_PROTO*) ;;
 *) gethostbyname_r_proto="REENTRANT_PROTO_$gethostbyname_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "gethostbyname_r has no prototype, not using it." >&4 ;;
 esac
 d_gethostbyname_r=undef
 gethostbyname_r_proto=0
 ;;
esac
;;
*) gethostbyname_r_proto=0
;;
esac
```

Found
 in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_gethostbyname_r.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: siteprefix.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $

```
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: siteprefix.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:siteprefix siteprefixexp +oldsiteprefix: Getfile Loc Oldconfig cat package prefix
?MAKE: -pick add $@ %<
?S:siteprefix:
?S: This variable holds the full absolute path of the directory below
?S: which the user will install add-on packages.
?S: See INSTALL for usage and examples.
?S:.
?S:siteprefixexp:
?S: This variable holds the full absolute path of the
 directory below
?S: which the user will install add-on packages.  Derived from siteprefix.
?S:.
?S:oldsiteprefix:
?S: This variable is set non-null if the siteprefix was previously defined
?S: and gets set to a new value. Used internally by Configure only.
?S:.
: Set the siteprefix variables
$cat <<EOM

After $package is installed, you may wish to install various
add-on modules and utilities.  Typically, these add-ons will
be installed under $prefix with the rest
of this package.  However, you may wish to install such add-ons
elsewhere under a different prefix.

If you do not wish to put everything under a single prefix, that's
ok.  You will be prompted for the individual locations; this siteprefix
is only used to suggest the defaults.

The default should be fine for most people.

EOM
fn=d~+
rp='Installation prefix to use for add-on modules and utilities?'
: XXX Here might be another good place for an installstyle setting.
```

```
case "$siteprefix" in
") dflt=$prefix ;;
*)  dflt=$siteprefix
 ;;
esac
. ./getfile
: XXX Prefixit unit does not yet support siteprefix and vendorprefix
oldsiteprefix=''
case "$siteprefix" in
") ;;
*) case "$ans" in
 "$prefix") ;;
 *) oldsiteprefix="$prefix";;
 esac
 ;;
esac
siteprefix="$ans"
siteprefixexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/siteprefix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_machcthr: Inhdr usethreads
?MAKE: -pick add $@ %<
?S:i_machcthr:
?S: This variable conditionally defines the I_MACH_CTHREADS symbol,
?S: and indicates whether a C program should include <mach/cthreads.h>.
?S:.
?C:I_MACH_CTHREADS:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <mach/cthreads.h>.
?C:.
?H:#$i_machcthr   I_MACH_CTHREADS /**/
?H:.
: see if mach cthreads are available
if test "X$usethreads" = "X$define"; then
```

```
 set mach/cthreads.h i_machcthr
 eval $inhdr
else
 i_machcthr="$undef"
fi
```

Found
 in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/i_machcthr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: package.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:27:21  ram
?RCS: patch36: beware of non-ascii character sets when translating case
?RCS:
?RCS: Revision 3.0.1.2  1993/11/10  17:37:02  ram
?RCS: patch14: skip definition of spackage if not otherwise used
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:11:10  ram
?RCS: patch10: added spackage, suitable for starting sentences
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:28  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:package spackage:
 Nothing
?MAKE: -pick wipe $@ %<
?S:package:
?S: This variable contains the name of the package being constructed.
?S: It is primarily intended for the use of later Configure units.
?S:.
?S:spackage:
?S: This variable contains the name of the package being constructed,
?S: with the first letter uppercased, i.e. suitable for starting
?S: sentences.
?S:.
?C:PACKAGE:
```

```
?C: This variable contains the name of the package being built.
?C:.
?H:#define PACKAGE "$package"
?H:.
?T:first last
: set package name
package='<PACKAGENAME>'
@if spackage
first=`echo $package | sed -e 's/^\(.\).*/\1/'`
last=`echo $package | sed -e 's/^.\(.*\)/\1/'`
?X:
?X: So early in the Configure script, we don't have ./tr set up and can't
?X: include Tr in our dependency or that would create a cycle. Therefore,
?X: we have to somehow duplicate the work done in Tr. That's life.
?X:
case "`echo AbyZ | tr '[:lower:]' '[:upper:]' 2>/dev/null`" in
ABYZ) spackage=`echo $first | tr '[:lower:]' '[:upper:]'`$last;;
*) spackage=`echo
 $first | tr '[a-z]' '[A-Z]'`$last;;
esac
@end
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/package.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_quad quadtype uquadtype quadkind: \
 longsize intsize d_longlong longlongsize d_int64_t \
 Inhdr Setvar
?MAKE: -pick add $@ %<
?S:d_quad:
?S: This variable, if defined, tells that there's a 64-bit integer type,
?S: quadtype.
?S:.
?S:quadtype:
?S: This variable defines Quad_t to be something like long, int,
?S: long long, int64_t, or whatever type is used for 64-bit integers.
?S:.
?S:quadkind:
?S: This variable, if defined, encodes the type of a quad:
```

```
?S: 1 = int, 2 = long, 3 = long long, 4 = int64_t.
?S:.
?S:uquadtype:
?S: This variable defines Uquad_t to be something like unsigned long,
?S: unsigned int, unsigned long long, uint64_t, or whatever type is
?S: used for 64-bit integers.
?S:.
?C:HAS_QUAD:
?C: This
 symbol, if defined, tells that there's a 64-bit integer type,
?C: Quad_t, and its unsigned counterpart, Uquad_t. QUADKIND will be one
?C: of QUAD_IS_INT, QUAD_IS_LONG, QUAD_IS_LONG_LONG, QUAD_IS_INT64_T,
?C: or QUAD_IS___INT64.
?C:.
?H:#$d_quad HAS_QUAD /**/
?H:?%<:#ifdef HAS_QUAD
?H:?%<:#   define Quad_t $quadtype /**/
?H:?%<:#   define Uquad_t $uquadtype /**/
?H:?%<:#   define QUADKIND $quadkind /**/
?H:?%<:#   define QUAD_IS_INT 1
?H:?%<:#   define QUAD_IS_LONG 2
?H:?%<:#   define QUAD_IS_LONG_LONG 3
?H:?%<:#   define QUAD_IS_INT64_T 4
?H:?%<:#   define QUAD_IS___INT64 5
?H:?%<:#endif
?H:.
?LINT:set quadtype
?LINT:set uquadtype
: Check if 64bit ints have a quad type
echo " "
echo "Checking which 64-bit integer type we could use..." >&4
?X: We prefer quad types in order of int, long, long long, int64_t.

case "$intsize" in
8) val=int
  set quadtype
  eval $setvar
  val='"unsigned int"'
  set uquadtype
  eval $setvar
  quadkind=1
  ;;
*) case "$longsize" in
  8)
 val=long
    set quadtype
    eval $setvar
    val='"unsigned long"'
```

```
    set uquadtype
    eval $setvar
    quadkind=2
    ;;
  *) case "$d_longlong:$longlongsize" in
    define:8)
      val="'long long'"
      set quadtype
      eval $setvar
      val="'unsigned long long'"
      set uquadtype
      eval $setvar
      quadkind=3
      ;;
    *) case "$d_int64_t" in
       define)
         val=int64_t
         set quadtype
         eval $setvar
         val=uint64_t
         set uquadtype
         eval $setvar
         quadkind=4
         ;;
       esac
       ;;
    esac
    ;;
  esac
  ;;
esac

case "$quadtype" in
") echo "Alas, no 64-bit integer types in sight." >&4
 d_quad="$undef"
 ;;
*) echo "We could use '$quadtype' for 64-bit integers." >&4
 d_quad="$define"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/a_dvisory/quadtype.U
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```
?RCS:
?MAKE:d_lround: Inlibc
?MAKE: -pick add $@ %<
?S:d_lround:
?S: This variable conditionally defines the HAS_LROUND symbol, which
?S: indicates to the C program that the lround() routine is available
?S: to return the integral value nearest to x.
?S:.
?C:HAS_LROUND:
?C: This symbol, if defined, indicates that the lround routine is
?C: available to return the nearest integral value.
?C:.
?H:#$d_lround HAS_LROUND  /**/
?H:.
?LINT:set d_lround
: see if lround exists
set lround d_lround
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lround.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:uidformat: uidsize uidsign ivsize uvsize longsize intsize shortsize \
 ivdformat uvuformat test echo
?MAKE: -pick add $@ %<
?S:uidformat:
?S: This variable contains the format string used for printing a Uid_t.
?S:.
?C:Uid_t_f:
?C: This symbol defines the format string used for printing a Uid_t.
?C:.
?H:#define Uid_t_f  $uidformat  /**/
?H:.
: Check format string for UID
echo " "
$echo "Checking the format string to be used for uids..." >&4

case "$uidsign" in
-1) if $test X"$uidsize" = X"$ivsize"; then
```

```
  uidformat="$ivdformat"
 else
  if $test X"$uidsize" = X"$longsize"; then
   uidformat="'ld'"
  else
   if $test X"$uidsize" = X"$intsize"; then
    uidformat="'d'"
   else
    if $test X"$uidsize"
 = X"$shortsize"; then
     uidformat="'hd'"
    fi
   fi
  fi
 fi
 ;;
*) if $test X"$uidsize" = X"$uvsize"; then
  uidformat="$uvuformat"
 else
  if $test X"$uidsize" = X"$longsize"; then
   uidformat="'lu'"
  else
   if $test X"$uidsize" = X"$intsize"; then
    uidformat="'u'"
   else
    if $test X"$uidsize" = X"$shortsize"; then
     uidformat="'hu'"
    fi
   fi
  fi
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/uidf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_dbl_dig.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_dbl_dig.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:28  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_dbl_dig: Myread contains cat rm Setvar i_limits i_float \
 cppstdin cppflags cppminus
?MAKE: -pick add $@ %<
?S:d_dbl_dig:
?S: This variable conditionally defines d_dbl_dig if this system's
?S: header files provide DBL_DIG, which is the number of significant
?S: digits
 in a double precision number.
?S:.
?C:HAS_DBL_DIG:
?C: This symbol, if defined, indicates that this system's <float.h>
?C: or <limits.h> defines the symbol DBL_DIG, which is the number
?C: of significant digits in a double precision number.  If this
?C: symbol is not defined, a guess of 15 is usually pretty good.
?C:.
?H:#$d_dbl_dig HAS_DBL_DIG  /**/
?H:.
?F:!dbl_dig.c
?LINT:set d_dbl_dig
: See if number of significant digits in a double precision number is known
echo " "
$cat >dbl_dig.c <<EOM
#$i_limits I_LIMITS
#$i_float I_FLOAT
#ifdef I_LIMITS
#include <limits.h>
#endif
#ifdef I_FLOAT
#include <float.h>
#endif
#ifdef DBL_DIG
printf("Contains DBL_DIG");
#endif
EOM
$cppstdin $cppflags $cppminus < dbl_dig.c >dbl_dig.E 2>/dev/null
if $contains 'DBL_DIG' dbl_dig.E >/dev/null 2>&1; then
 echo "DBL_DIG found." >&4
 val="$define"
else
 echo "DBL_DIG NOT found." >&4
 val="$undef"
```

```
fi
$rm -f dbl_dig.?
set d_dbl_dig
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_dbl_dig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_unordered: Inlibc
?MAKE: -pick add $@ %<
?S:d_unordered:
?S: This variable conditionally defines the HAS_UNORDERED symbol, which
?S: indicates to the C program that the unordered() routine is available.
?S:.
?C:HAS_UNORDERED:
?C: This symbol, if defined, indicates that the unordered routine is
?C: available to check whether two doubles are unordered
?C: (effectively: whether either of them is NaN)
?C:.
?H:#$d_unordered HAS_UNORDERED  /**/
?H:.
?LINT:set d_unordered
: see if unordered exists
set unordered d_unordered
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_unordered.U
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```
?RCS: $Id: d_mblen.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_mblen.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:09:40  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_mblen: Inlibc
?MAKE: -pick add $@ %<
?S:d_mblen:
?S: This variable conditionally defines the HAS_MBLEN symbol, which
?S: indicates to the C program that the mblen() routine is available
?S: to find the number of bytes in a multibyte character.
?S:.
?C:HAS_MBLEN:
?C: This
 symbol, if defined, indicates that the mblen routine is available
?C: to find the number of bytes in a multibyte character.
?C:.
?H:#$d_mblen HAS_MBLEN  /**/
?H:.
?LINT:set d_mblen
: see if mblen exists
set mblen d_mblen
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_mblen.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getmntent: Inlibc
?MAKE: -pick add $@ %<
?S:d_getmntent:
?S: This variable conditionally defines the HAS_GETMNTENT symbol, which
?S: indicates to the C program that the getmntent() routine is available
?S: to iterate through mounted files to get their mount info.
?S:.
?C:HAS_GETMNTENT:
?C: This symbol, if defined, indicates that the getmntent routine is
```

```
?C: available to iterate through mounted file systems to get their info.
?C:.
?H:#$d_getmntent HAS_GETMNTENT  /**/
?H:.
?LINT:set d_getmntent
: see if getmntent exists
set getmntent d_getmntent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getmntent.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: archname.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:24:32  ram
?RCS: patch61: changed the way the archname is mangled from uname
?RCS:
?RCS: Revision 3.0.1.2  1995/05/12  12:05:24  ram
?RCS: patch54: protect against spaces in "uname -m" output (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1995/02/15  14:14:21  ram
?RCS: patch51: created
?RCS:
?MAKE:archname myarchname: sed Loc Myread Oldconfig osname test rm
?MAKE: -pick add $@ %<
?S:archname:
?S: This variable is a short name to characterize the current
?S: architecture.
  It is used mainly to construct the default archlib.
?S:.
?S:myarchname:
?S: This variable holds the architecture name computed by Configure in
?S: a previous run. It is not intended to be perused by any user and
?S: should never be set in a hint file.
?S:.
?C:ARCHNAME:
?C: This symbol holds a string representing the architecture name.
```

```
?C: It may be used to construct an architecture-dependant pathname
?C: where library files may be held under a private library, for
?C: instance.
?C:.
?H:#define ARCHNAME "$archname"  /**/
?H:.
?T:xxx tarch
: determine the architecture name
echo " "
?X: We always recompute archname in case osname changes. However, we need
?X: to be careful since, as ADO rightfully pointed out, some systems pick
?X: silly architecture names (0001307135000-aix on AIX or 9000/715-ux under
?X: HP-UX). Therefore, we allow hint files to superseed our guess and ask
?X: the user for confirmation.
if xxx=`./loc arch blurfl $pth`; $test -f "$xxx"; then
 tarch=`arch`"-$osname"
elif
 xxx=`./loc uname blurfl $pth`; $test -f "$xxx" ; then
 if uname -m > tmparch 2>&1 ; then
  tarch=`$sed -e 's/ *$//' -e 's/ /_/g' \
   -e 's/$/"'-$osname/" tmparch`
 else
  tarch="$osname"
 fi
 $rm -f tmparch
else
 tarch="$osname"
fi
case "$myarchname" in
"|"$tarch") ;;
*)
 echo "(Your architecture name used to be $myarchname.)"
 archname=''
 ;;
esac
case "$archname" in
'') dflt="$tarch";;
*) dflt="$archname";;
esac
rp='What is your architecture name'
. ./myread
archname="$ans"
myarchname="$tarch"
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/archname.U

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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:versionony: cat Myread Setvar Devel
?MAKE: -pick add $@ %<
?LINT:set versionony
?Y:TOP
?S:versionony:
?S: If set, this symbol indicates that only the version-specific
?S: components of a perl installation should be installed.
?S: This may be useful for making a test installation of a new
?S: version without disturbing the existing installation.
?S: Setting versionony is equivalent to setting installperl's -v option.
?S: In particular, the non-versioned scripts and programs such as
?S: a2p, c2ph, h2xs, pod2*, and perldoc
 are not installed
?S: (see INSTALL for a more complete list).  Nor are the man
?S: pages installed.
?S: Usually, this is undef.
?S:.
?LINT:extern inc_version_list
?LINT:change inc_version_list
?LINT:extern inc_version_list_init
?LINT:change inc_version_list_init
?LINT:extern version
: determine whether to use a version number suffix for installed binaries
echo " "
$cat <<EOM
Do you want to use a version number suffix for installed binaries? This
will install 'perl$version' instead of 'perl', and likewise for other
binaries like 'perldoc' and 'cpan'. This allows many versions of perl
to be installed side-by-side. Unless you are a developer, you probably
do *not* want to do this.
EOM
case "$versionony" in
"$define"|[Yy]*|true) dflt='y' ;;
*) dflt='n';
esac
rp="Do you want to use a version number suffix for installed binaries?"
```

```
. ./myread
case "$ans" in
[yY]*) val="$define";;
*) val="$undef" ;;
esac
set versionononly
eval $setvar

case "$versionononly" in
"$define") inc_version_list="
          inc_version_list_init=0
         ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/versionononly.U
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```
?RCS: $Id: Whoa.U,v 3.0.1.2 1997/02/28 15:21:21 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Whoa.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:21:21  ram
?RCS: patch61: whoa script now starts with leading "startsh"
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:02:01  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to warn the user in case a change into a variable
 is noticed.
?X:
?X: To use this unit, $was must hold the old value that has changed. Upon
?X: exit, the two variables $td and $tu are set to the correct value for
?X: respectively defining or undefining a variable. For instance, if $vas was
?X: $undef, but now $var is $define, after calling . whoa, you should use
```

```
?X: eval "$var=\$tu" to finally set $var to the correct value. See unit Inlibc.
?X:
?MAKE:Whoa: Myread startsh hint
?MAKE: -pick add $@ %<
?F:./whoa
?T:var was td tu hintfile
: set up the script used to warn in case of inconsistency
cat <<EOS >whoa
$startsh
EOS
cat <<'EOSC' >>whoa
dflt=y
case "$hint" in
   recommended)
 case "$hintfile" in
 ") echo "The $hint value for \$$var on this machine was \"$was\"!" >&4
  ;;
 *) echo "Hmm.  Based on the hints in hints/$hintfile.sh, " >&4
  echo "the $hint value for \$$var on this machine was \"$was\"!" >&4
  ;;
 esac
 ;;
   *) echo " "
 echo "*** WHOA THERE!!! ***" >&4
 echo "    The $hint value for \$$var on this machine was
 \"$was\"!" >&4
 ;;
esac
rp="    Keep the $hint value?"
. ./myread
case "$ans" in
y) td=$was; tu=$was;;
esac
EOSC
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Whoa.U
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```
?RCS: $Id$
?RCS:
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```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: charsize.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:07:13  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:34  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:charsize: Assert Myread cat rm_try +cc +ccflags echo n c
?MAKE: -pick add $@ %<
?S:charsize:
?S: This variable contains the value of the CHARSIZE symbol, which
?S: indicates to the C program how many bytes there are in a character.
?S:.
?C:CHARSIZE:
?C: This symbol contains
 the size of a char, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define CHARSIZE $charsize
?H:.
?T:size s
: check for length of character
echo " "
$echo $n "Checking to see how big your characters are...$c" >&4
for size in 1 2 4 8 error; do
 $cat >try.c <<EOCP
#include "static_assert.h"
char foo;
int main()
{
 STATIC_ASSERT($size == sizeof(foo));
 return 0;
}
EOCP
 if $cc -c $ccflags try.c >/dev/null 2>&1; then break; fi
done
case "$size" in
error)
 echo " cannot compute it." >&4
 dflt=1
 rp="What is the size of a character (in bytes)?"
 . ./myread
 charsize="$ans"
 ;;
*)
 case "$size" in
```

```
 1) s="";;
 *) s='s';;
 esac
 echo " $size byte$s." >&4
 charsize=$size
 ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/charsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_termio.U,v $
?RCS: Revision 3.0.1.4  1994/10/29  16:20:54  ram
?RCS: patch36: call ./usg and ./Cppsym explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.3  1994/08/29  16:26:38  ram
?RCS: patch32: don't include all three I_* symbols in config.h
?RCS: patch32: (had forgotten to undo this part last time)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:25:03  ram
?RCS: patch27: undone ADO's fix in previous patch since it was useless
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:05:23
 ram
?RCS: patch23: now include all three defines in config.h (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_termio i_sgtty i_termios: test Inlibc Cppsym Guess Setvar Findhdr Warn
?MAKE: -pick add $@ %<
?S:i_termio:
?S: This variable conditionally defines the I_TERMIO symbol, which
?S: indicates to the C program that it should include <termio.h> rather
?S: than <sgtty.h>.
```

```
?S:.
?S:i_termios:
?S: This variable conditionally defines the I_TERMIOS symbol, which
?S: indicates to the C program that the POSIX <termios.h> file is
?S: to be included.
?S:.
?S:i_sgtty:
?S: This variable conditionally defines the I_SGTTY symbol, which
?S: indicates to the C program that it should include <sgtty.h> rather
?S: than <termio.h>.
?S:.
?C:I_TERMIO:
?C: This symbol, if defined, indicates that the program should include
?C: <termio.h> rather than <sgtty.h>.  There are also differences in
?C: the ioctl() calls that depend on the value of
 this symbol.
?C:.
?C:I_TERMIOS:
?C: This symbol, if defined, indicates that the program should include
?C: the POSIX termios.h rather than sgtty.h or termio.h.
?C: There are also differences in the ioctl() calls that depend on the
?C: value of this symbol.
?C:.
?C:I_SGTTY:
?C: This symbol, if defined, indicates that the program should include
?C: <sgtty.h> rather than <termio.h>.  There are also differences in
?C: the ioctl() calls that depend on the value of this symbol.
?C:.
?H:#$i_termio I_TERMIO  /**/
?H:#$i_termios I_TERMIOS  /**/
?H:#$i_sgtty I_SGTTY  /**/
?H:.
?T:val2 val3
?LINT:set i_termio i_sgtty i_termios
: see if this is a termio system
val="$undef"
val2="$undef"
val3="$undef"
?X: Prefer POSIX-approved termios.h over all else
if $test `./findhdr termios.h`; then
 set tcsetattr i_termios
 eval $inlibc
 val3="$i_termios"
fi
echo " "
case "$val3" in
"$define") echo "You have POSIX termios.h... good!" >&4;;
*) if ./Cppsym pyr; then
```

```
  case "`/bin/universe`" in
  ucb) if $test `./findhdr
 sgtty.h`; then
    val2="$define"
    echo "<sgtty.h> found." >&4
   else
    echo "System is pyramid with BSD universe."
    ./warn "<sgtty.h> not found--you could have problems."
   fi;;
  *) if $test `./findhdr termio.h`; then
    val="$define"
    echo "<termio.h> found." >&4
   else
    echo "System is pyramid with USG universe."
    ./warn "<termio.h> not found--you could have problems."
   fi;;
  esac
?X: Start with USG to avoid problems if both usg/bsd was guessed
 elif ./usg; then
  if $test `./findhdr termio.h`; then
   echo "<termio.h> found." >&4
   val="$define"
  elif $test `./findhdr sgtty.h`; then
   echo "<sgtty.h> found." >&4
   val2="$define"
  else
   ./warn "Neither <termio.h> nor <sgtty.h> found--cross fingers!"
  fi
 else
  if $test `./findhdr sgtty.h`; then
   echo "<sgtty.h> found." >&4
   val2="$define"
  elif $test `./findhdr termio.h`; then
   echo "<termio.h> found." >&4
   val="$define"
  else
   ./warn "Neither <sgtty.h> nor <termio.h> found--cross
 fingers!"
  fi
 fi;;
esac
set i_termio; eval $setvar
val=$val2; set i_sgtty; eval $setvar
val=$val3; set i_termios; eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_termio.U

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```
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?RCS:
?MAKE:d_lrintl: Inlibc
?MAKE: -pick add $@ %<
?S:d_lrintl:
?S: This variable conditionally defines the HAS_LRINTL symbol, which
?S: indicates to the C program that the lrintl() routine is available
?S: to return the integral value closest to a long double (according
?S: to the current rounding mode).
?S:.
?C:HAS_LRINTL:
?C: This symbol, if defined, indicates that the lrintl routine is
?C: available to return the integral value closest to a long double
?C: (according to the current rounding mode).
?C:.
?H:#$d_lrintl HAS_LRINTL  /**/
?H:.
?LINT:set d_lrintl
: see if lrintl exists
set lrintl d_lrintl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lrintl.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_logb: Inlibc
?MAKE: -pick add $@ %<
?S:d_logb:
?S: This variable conditionally defines the HAS_LOGB symbol, which
?S: indicates to the C program that the logb() routine is available
?S: to extract the exponent of x.
?S:.
?C:HAS_LOGB:
?C: This symbol, if defined, indicates that the logb routine is
?C: available to do the logb function.
?C:.
?H:#$d_logb HAS_LOGB  /**/
?H:.
?LINT:set d_logb
: see if logb exists
```

```
set logb d_logb
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_logb.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sitelib.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sitelib.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?RCS: Revision 3.0.1.1  1997/02/28  16:21:35  ram
?RCS: patch61: created
?RCS:
?MAKE:sitelib sitelibexp installsitelib sitelib_stem: cat Getfile Oldconfig \
 Setprefixvar Prefixit package version sed installstyle siteprefix
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitelib=''
?S:sitelib:
?S: This variable contains the
 eventual value of the SITELIB symbol,
?S: which is the name of the private library for this package.  It may
?S: have a ~ on the front. It is up to the makefile to eventually create
?S: this directory while performing installation (with ~ substitution).
?S: The standard distribution will put nothing in this directory.
?S: After perl has been installed, users may install their own local
?S: architecture-independent modules in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitelibexp=''
?S:sitelibexp:
?S: This variable is the ~name expanded version of sitelib, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
```

```
?D:installsitelib="
?S:installsitelib:
?S: This variable is really the same as sitelibexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?S:sitelib_stem:
?S: This variable is $sitelibexp with any trailing version-specific component
?S: removed.
  The elements in inc_version_list (inc_version_list.U) can
?S: be tacked onto this variable to generate a list of directories to search.
?S:.
?C:SITELIB:
?C: This symbol contains the name of the private library for this package.
?C: The library is private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.  The program
?C: should be prepared to do ~ expansion.
?C: The standard distribution will put nothing in this directory.
?C: After perl has been installed, users may install their own local
?C: architecture-independent modules in this directory with
?C:  MakeMaker Makefile.PL
?C: or equivalent.  See INSTALL for details.
?C:.
?C:SITELIB_EXP:
?C: This symbol contains the ~name expanded version of SITELIB, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?C:SITELIB_STEM:
?C: This define is SITELIB_EXP with any trailing version-specific component
?C: removed.  The elements in
 inc_version_list (inc_version_list.U) can
?C: be tacked onto this variable to generate a list of directories to search.
?C:.
?H:#define SITELIB "$sitelib"  /**/
?H:#define SITELIB_EXP "$sitelibexp"  /**/
?H:#define SITELIB_STEM "$sitelib_stem"  /**/
?H:.
?T:prog
?LINT:change prefixvar
?LINT:set installsitelib
?LINT:set sitelib
?LINT:set sitelibexp
: determine where site specific libraries go.
: Usual default is /usr/local/lib/perl5/site_perl/$version
: The default "style" setting is made in installstyle.U
: XXX No longer works with Prefixit stuff.
?X: remove any trailing -3.0 or other version identification
prog=`echo $package | $sed 's/-*[0-9.]*$//'`
```

```
case "$sitelib" in
") case "$installstyle" in
 *lib/perl5*) dflt=$siteprefix/lib/$package/site_$prog/$version ;;
 *)  dflt=$siteprefix/lib/site_$prog/$version ;;
 esac
 ;;
*) dflt="$sitelib"
 ;;
esac
$cat <<EOM

The installation process will create a directory for
site-specific extensions and modules.  Most users find it convenient
to place
 all site-specific files in this directory rather than in the
main distribution directory.

EOM
fn=d~+
rp='Pathname for the site-specific library files?'
. ./getfile
prefixvar=sitelib
. ./setprefixvar
sitelib_stem=`echo "$sitelibexp" | sed "s,/$version$,,"`
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/sitelib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2014 Jarkko Hietaniemi & H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_copysign: Inlibc
?MAKE: -pick add $@ %<
?S:d_copysign:
?S: This variable conditionally defines the HAS_COPYSIGN symbol, which
?S: indicates to the C program that the copysign() routine is available.
?S:.
?C:HAS_COPYSIGN:
?C: This symbol, if defined, indicates that the copysign routine is
?C: available to do the copysign function.
?C:.
?H:#$d_copysign HAS_COPYSIGN  /**/
```

```
?H:.
?LINT:set d_copysign
: see if copysign exists
set copysign d_copysign
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_copysign.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fp_classl: Inlibc
?MAKE: -pick add $@ %<
?S:d_fp_classl:
?S: This variable conditionally defines the HAS_FP_CLASSL symbol, which
?S: indicates to the C program that the fp_classl() routine is available.
?S:.
?C:HAS_FP_CLASSL:
?C: This symbol, if defined, indicates that the fp_classl routine is
?C: available to classify long doubles.  Available for example in
?C: Digital UNIX.  See for possible values HAS_FP_CLASS.
?C:.
?H:#$d_fp_classl HAS_FP_CLASSL  /**/
?H:.
?LINT:set d_fp_classl
: see if fp_classl exists
set fp_classl d_fp_classl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fp_classl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_grp.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:20  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_grp: Inhdr
?MAKE: -pick add $@ %<
?S:i_grp:
?S: This variable conditionally defines the I_GRP symbol, and indicates
?S: whether a C program should include <grp.h>.
?S:.
?C:I_GRP:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <grp.h>.
?C:.
?H:#$i_grp I_GRP  /**/
?H:.
?LINT:set i_grp
: see if this is an grp system
set grp.h i_grp
eval $inhdr
```

Found
 in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_grp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_shadow.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_prot: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_prot:
?S: This variable conditionally defines the I_PROT symbol, and indicates
?S: whether a C program should include <prot.h>.
?S:.
?C:I_PROT:
?C: This symbol, if defined, indicates that <prot.h> exists and
?C: should be included.
?C:.
?H:#$i_prot I_PROT  /**/
```

```
?H:.
?LINT:set i_prot
: see if this is a prot.h system
set prot.h i_prot
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_prot.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2005 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_unsetenv: Inlibc
?MAKE: -pick add $@ %<
?S:d_unsetenv:
?S: This variable conditionally defines the HAS_UNSETENV symbol, which
?S: indicates to the C program that the unsetenv () routine is available.
?S:.
?C:HAS_UNSETENV:
?C: This symbol, if defined, indicates that the unsetenv () routine is
?C: available for use.
?C:.
?H:#$d_unsetenv HAS_UNSETENV  /**/
?H:.
?LINT:set d_unsetenv
: see if unsetenv exists
set unsetenv d_unsetenv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_unsetenv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_select.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_select.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_select: Inlibc
?MAKE: -pick add $@ %<
?S:d_select:
?S: This variable conditionally defines HAS_SELECT if select() is
?S: available to select active file descriptors. A <sys/time.h>
?S: inclusion may be necessary for the timeout field.
?S:.
?C:HAS_SELECT:
?C: This symbol, if defined, indicates that the select routine is
?C: available
 to select active file descriptors. If the timeout field
?C: is used, <sys/time.h> may need to be included.
?C:.
?H:#$d_select HAS_SELECT /**/
?H:.
?LINT:set d_select
: see if select exists
set select d_select
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_select.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_volatile.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:08:49  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0.1.1  1993/09/09  11:49:51  ram
?RCS: patch9: volatile definition was swapped over with undef
?RCS:
```

```
?RCS: Revision 3.0  1993/08/18  12:07:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_volatile: cat +cc +ccflags rm_try Setvar
?MAKE: -pick add $@ %<
?S:d_volatile:
?S: This variable conditionally defines the HASVOLATILE symbol, which
?S: indicates
 to the C program that this C compiler knows about the
?S: volatile declaration.
?S:.
?C:HASVOLATILE ~ %<:
?C: This symbol, if defined, indicates that this C compiler knows about
?C: the volatile declaration.
?C:.
?H:?%<:#$d_volatile HASVOLATILE /**/
?H:?%<:#ifndef HASVOLATILE
?H:?%<:#define volatile
?H:?%<:#endif
?H:.
?W:%<:volatile
?LINT:set d_volatile
?LINT:known volatile
: check for volatile keyword
echo " "
echo 'Checking to see if your C compiler knows about "volatile"...' >&4
$cat >try.c <<'EOCP'
int main()
{
?X:
?X: The following seven lines added by Bill Campbell <billc@sierra.com>
?X: detect that MIPS compilers do not handle volatile in all situations.
?X:
 typedef struct _goo_struct goo_struct;
 goo_struct * volatile goo = ((goo_struct *)0);
 struct _goo_struct {
  long long_int;
  int reg_int;
  char char_var;
 };
 typedef unsigned short foo_t;
 char *volatile foo;
 volatile int bar;
 volatile foo_t blech;
 foo = foo;
}
EOCP
if $cc -c $ccflags try.c >/dev/null
```

```
 2>&1 ; then
 val="$define"
 echo "Yup, it does."
else
 val="$undef"
 echo "Nope, it doesn't."
fi
set d_volatile
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_volatile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setregid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setregid.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:12  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setregid d_setresgid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setregid:
?S: This variable conditionally defines HAS_SETREGID if setregid() is
?S: available to change the real and effective gid of the current
?S: process.
?S:.
?S:d_setresgid:
?S: This variable conditionally defines HAS_SETRESGID if setresgid() is
?S: available to change
 the real, effective and saved gid of the current
?S: process.
?S:.
?C:HAS_SETREGID (SETREGID):
?C: This symbol, if defined, indicates that the setregid routine is
?C: available to change the real and effective gid of the current
?C: process.
?C:.
```

```
?C:HAS_SETRESGID (SETRESGID):
?C: This symbol, if defined, indicates that the setresgid routine is
?C: available to change the real, effective and saved gid of the current
?C: process.
?C:.
?H:#$d_setregid HAS_SETREGID  /**/
?H:#$d_setresgid HAS_SETRESGID  /**/
?H:.
?LINT: set d_setregid d_setresgid
: see if setregid exists
set setregid d_setregid
eval $inlibc
set setresgid d_setresgid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setregid.U
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```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_flockproto: Hasproto i_sysfile
?MAKE: -pick add $@ %<
?S:d_flockproto:
?S: This variable conditionally defines the HAS_FLOCK_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the flock() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_FLOCK_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the flock() function.  Otherwise, it is up
?C: to the program to supply one.  A good guess is
?C:  extern int flock(int,
 int);
?C:.
?H:#$d_flockproto HAS_FLOCK_PROTO /**/
?H:.
?LINT:set d_flockproto
```

```
: see if prototype for flock is available
echo " "
set d_flockproto flock $i_sysfile sys/file.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_flockproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getprotoent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getprotoent_r getprotoent_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getprotoent_r:
?S: This variable conditionally defines the HAS_GETPROTOENT_R symbol,
?S: which indicates to the C program that the getprotoent_r()
?S: routine is available.
?S:.
?S:getprotoent_r_proto:
?S: This variable encodes the prototype of getprotoent_r.
?S: It is zero if d_getprotoent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getprotoent_r
?S: is defined.
?S:.
?C:HAS_GETPROTOENT_R:
?C: This symbol, if defined, indicates that the getprotoent_r
 routine
?C: is available to getprotoent re-entrantly.
?C:.
?C:GETPROTOENT_R_PROTO:
?C: This symbol encodes the prototype of getprotoent_r.
?C: It is zero if d_getprotoent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getprotoent_r
?C: is defined.
?C:.
?H:#$d_getprotoent_r HAS_GETPROTOENT_R /**/
?H:#define GETPROTOENT_R_PROTO $getprotoent_r_proto /**/
?H:.
?T:try hdrs d_getprotoent_r_proto
: see if getprotoent_r exists
```

```
set getprotoent_r d_getprotoent_r
eval $inlibc
case "$d_getprotoent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getprotoent_r_proto:$usethreads" in
 ":define") d_getprotoent_r_proto=define
  set d_getprotoent_r_proto getprotoent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getprotoent_r_proto" in
 define)
 case "$getprotoent_r_proto" in
 "|0) try='int getprotoent_r(struct protoent*, char*, size_t, struct protoent**);'
 ./protochk "$extern_C $try" $hdrs && getprotoent_r_proto=I_SBWR
 ;;
 esac
 case "$getprotoent_r_proto" in
 "|0) try='int getprotoent_r(struct protoent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getprotoent_r_proto=I_SBI ;;
 esac
 case "$getprotoent_r_proto" in
 "|0) try='struct protoent* getprotoent_r(struct protoent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getprotoent_r_proto=S_SBI ;;
 esac
 case "$getprotoent_r_proto" in
 "|0) try='int getprotoent_r(struct protoent*, struct protoent_data*);'
 ./protochk "$extern_C $try" $hdrs && getprotoent_r_proto=I_SD ;;
 esac
 case "$getprotoent_r_proto" in
 "|0) d_getprotoent_r=undef
  getprotoent_r_proto=0
  echo "Disabling getprotoent_r, cannot determine prototype." >&4 ;;
 * ) case "$getprotoent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getprotoent_r_proto="REENTRANT_PROTO_$getprotoent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getprotoent_r has no prototype, not using it." >&4 ;;
  esac
  d_getprotoent_r=undef
  getprotoent_r_proto=0
  ;;
 esac
```

```
 ;;
*) getprotoent_r_proto=0
 ;;
esac
```

Found
 in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getprotoent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endservent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_endservent_r endservent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_endservent_r:
?S: This variable conditionally defines the HAS_ENDSERVENT_R symbol,
?S: which indicates to the C program that the endservent_r()
?S: routine is available.
?S:.
?S:endservent_r_proto:
?S: This variable encodes the prototype of endservent_r.
?S: It is zero if d_endservent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endservent_r
?S: is defined.
?S:.
?C:HAS_ENDSERVENT_R:
?C: This symbol, if defined, indicates that the endservent_r routine
?C: is
 available to endservent re-entrantly.
?C:.
?C:ENDSERVENT_R_PROTO:
?C: This symbol encodes the prototype of endservent_r.
?C: It is zero if d_endservent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endservent_r
?C: is defined.
?C:.
?H:#$d_endservent_r HAS_ENDSERVENT_R /**/
?H:#define ENDSERVENT_R_PROTO $endservent_r_proto /**/
?H:.
?T:try hdrs d_endservent_r_proto
```

```
: see if endservent_r exists
set endservent_r d_endservent_r
eval $inlibc
case "$d_endservent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_endservent_r_proto:$usethreads" in
 ":define") d_endservent_r_proto=define
  set d_endservent_r_proto endservent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_endservent_r_proto" in
 define)
 case "$endservent_r_proto" in
 "|0) try='int endservent_r(struct servent_data*);'
 ./protochk "$extern_C $try" $hdrs && endservent_r_proto=I_D ;;
 esac
 case "$endservent_r_proto" in
 "|0) try='void endservent_r(struct
 servent_data*);'
 ./protochk "$extern_C $try" $hdrs && endservent_r_proto=V_D ;;
 esac
 case "$endservent_r_proto" in
 "|0) d_endservent_r=undef
  endservent_r_proto=0
  echo "Disabling endservent_r, cannot determine prototype." >&4 ;;
 * ) case "$endservent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) endservent_r_proto="REENTRANT_PROTO_$endservent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "endservent_r has no prototype, not using it." >&4 ;;
  esac
  d_endservent_r=undef
  endservent_r_proto=0
  ;;
 esac
 ;;
*) endservent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/U/threads/d_endservent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: randbits.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:19:29  ram
?RCS: patch61: added <unistd.h> and <stdlib.h> to the C program test
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:38  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit has been somewhat made obsolete with creation of the
?X: randfunc function (which finds out how to generate random
?X: numbers between 0 and 1.
?X:
?MAKE:randbits: cat rm Myread cc i_unistd i_stdlib
?MAKE: -pick add $@ %<
?S:randbits:
?S: This
 variable contains the eventual value of the RANDBITS symbol,
?S: which indicates to the C program how many bits of random number
?S: the rand() function produces.
?S:.
?C:RANDBITS:
?C: This symbol contains the number of bits of random number the rand()
?C: function produces.  Usual values are 15, 16, and 31.
?C:.
?H:#define RANDBITS $randbits  /**/
?H:.
: check for size of random number generator
echo " "
case "$randbits" in
")
 echo "Checking to see how many bits your rand function produces..." >&4
 $cat >try.c <<EOCP
#$i_unistd I_UNISTD
#$i_stdlib I_STDLIB
#include <stdio.h>
```

```
#ifdef I_UNISTD
#  include <unistd.h>
#endif
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
EOCP
 $cat >>try.c <<'EOCP'
int main()
{
 register int i;
 register unsigned long tmp;
 register unsigned long max = 0L;

 for (i = 1000; i; i--) {
  tmp = (unsigned long)rand();
  if (tmp > max) max = tmp;
 }
 for (i = 0; max; i++)
  max /= 2;
 printf("%d\n",i);
}
EOCP
 if $cc -o try try.c >/dev/null 2>&1 ; then
  dflt=`try`
 else
  dflt='?'
  echo
 "(I can't seem to compile the test program...)"
 fi
 ;;
*)
 dflt="$randbits"
 ;;
esac
rp='How many bits does your rand() function produce?'
. ./myread
randbits="$ans"
$rm -f try.c try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/randbits.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2003 Jarkko Hietaniemi
```

```
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_ilogbl: Inlibc
?MAKE: -pick add $@ %<
?S:d_ilogbl:
?S: This variable conditionally defines the HAS_ILOGBL symbol, which
?S: indicates to the C program that the ilogbl() routine is available
?S: for extracting the exponent of long double x as a signed integer.
?S: If scalbnl is also present we can emulate frexpl.
?S:.
?C:HAS_ILOGBL:
?C: This symbol, if defined, indicates that the ilogbl routine is
?C: available.  If scalbnl is also present we can emulate frexpl.
?C:.
?H:#$d_ilogbl HAS_ILOGBL  /**/
?H:.
?LINT:set d_ilogbl
: see if ilogbl exists
set ilogbl d_ilogbl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_ilogbl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_stdio_stream_array stdio_stream_array: run \
 Compile cat rm_try Oldconfig Myread Setvar
?MAKE: -pick add $@ %<
?S:d_stdio_stream_array:
?S: This variable tells whether there is an array holding
?S: the stdio streams.
?S:.
?S:stdio_stream_array:
?S: This variable tells the name of the array holding the stdio streams.
?S: Usual values include _iob, __iob, and __sF.
```

```
?S:.
?C:HAS_STDIO_STREAM_ARRAY:
?C: This symbol, if defined, tells that there is an array
?C: holding the stdio streams.
?C:.
?C:STDIO_STREAM_ARRAY:
?C: This
 symbol tells the name of the array holding the stdio streams.
?C: Usual values include _iob, __iob, and __sF.
?C:.
?H:#$d_stdio_stream_array HAS_STDIO_STREAM_ARRAY /**/
?H:?%<:#ifdef HAS_STDIO_STREAM_ARRAY
?H:?%<:#define STDIO_STREAM_ARRAY $stdio_stream_array
?H:?%<:#endif
?H:.
?T:s
?F:!try
: Check stream access
$cat >&4 <<EOM
Checking how to access stdio streams by file descriptor number...
EOM
case "$stdio_stream_array" in
") $cat >try.c <<EOCP
#include <stdio.h>
int main() {
 if (&STDIO_STREAM_ARRAY[fileno(stdin)] == stdin)
   printf("yes\n");
}
EOCP
 for s in _iob __iob __sF
 do
        set try -DSTDIO_STREAM_ARRAY=$s
  if eval $compile; then
   case "`$run ./try`" in
   yes) stdio_stream_array=$s; break ;;
   esac
  fi
 done
 $rm_try
esac
case "$stdio_stream_array" in
") $cat >&4 <<EOM
I can't figure out how to access stdio streams by file descriptor number.
EOM
 d_stdio_stream_array="$undef"
 ;;
*) $cat >&4 <<EOM
You can access stdio streams by file descriptor number
```

```
 by the $stdio_stream_array array.
EOM
 d_stdio_stream_array="$define"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/stdio_streams.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_cmsghdr_s: Hasstruct i_systypes d_socket i_sysuio Setvar
?MAKE: -pick add $@ %<
?S:d_cmsghdr_s:
?S: This variable conditionally defines the HAS_STRUCT_CMSGHDR symbol,
?S: which indicates that the struct cmsghdr is supported.
?S:.
?C:HAS_STRUCT_CMSGHDR:
?C: This symbol, if defined, indicates that the struct cmsghdr
?C: is supported.
?C:.
?H:#$d_cmsghdr_s HAS_STRUCT_CMSGHDR /**/
?H:.
?LINT:set d_cmsghdr_s
: Check for cmsghdr support
echo " "
echo "Checking to see if your system supports struct cmsghdr..." >&4
set d_cmsghdr_s cmsghdr $i_systypes sys/types.h $d_socket sys/socket.h $i_sysuio sys/uio.h
eval $hasstruct
case "$d_cmsghdr_s" in
"$define")      echo "Yes, it does."   ;;
*)              echo
 "No, it doesn't." ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_cmsghdr_s.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_statvfs d_fstatvfs: Inlibc
?MAKE: -pick add $@ %<
?S:d_statvfs:
?S: This variable conditionally defines the HAS_STATVFS symbol, which
?S: indicates to the C program that the statvfs() routine is available.
?S:.
?S:d_fstatvfs:
?S: This variable conditionally defines the HAS_FSTATVFS symbol, which
?S: indicates to the C program that the fstatvfs() routine is available.
?S:.
?C:HAS_STATVFS:
?C: This symbol, if defined, indicates that the statvfs routine is
?C: available to stat filesystems by filenames.
?C:.
?C:HAS_FSTATVFS:
?C: This symbol, if defined, indicates that the fstatvfs routine is
?C: available to stat filesystems by file descriptors.
?C:.
?H:#$d_statvfs HAS_STATVFS  /**/
?H:#$d_fstatvfs
 HAS_FSTATVFS  /**/
?H:.
?LINT:set d_statvfs
?LINT:set d_fstatvfs
: see if statvfs exists
set statvfs d_statvfs
eval $inlibc

: see if fstatvfs exists
set fstatvfs d_fstatvfs
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_statvfs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getspnam_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getspnam_r getspnam_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_shadow extern_C
?MAKE: -pick add $@ %<
?S:d_getspnam_r:
?S: This variable conditionally defines the HAS_GETSPNAM_R symbol,
?S: which indicates to the C program that the getspnam_r()
?S: routine is available.
?S:.
?S:getspnam_r_proto:
?S: This variable encodes the prototype of getspnam_r.
?S: It is zero if d_getspnam_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getspnam_r
?S: is defined.
?S:.
?C:HAS_GETSPNAM_R:
?C: This symbol, if defined, indicates that the getspnam_r routine
?C: is available
 to getspnam re-entrantly.
?C:.
?C:GETSPNAM_R_PROTO:
?C: This symbol encodes the prototype of getspnam_r.
?C: It is zero if d_getspnam_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getspnam_r
?C: is defined.
?C:.
?H:#$d_getspnam_r HAS_GETSPNAM_R /**/
?H:#define GETSPNAM_R_PROTO $getspnam_r_proto /**/
?H:.
?T:try hdrs d_getspnam_r_proto
: see if getspnam_r exists
set getspnam_r d_getspnam_r
eval $inlibc
case "$d_getspnam_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_shadow shadow.h"
 case "$d_getspnam_r_proto:$usethreads" in
 ":define") d_getspnam_r_proto=define
  set d_getspnam_r_proto getspnam_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getspnam_r_proto" in
 define)
 case "$getspnam_r_proto" in
 "|0) try='int getspnam_r(const char*, struct spwd*, char*, size_t, struct spwd**);'
```

```
 ./protochk "$extern_C $try" $hdrs && getspnam_r_proto=I_CSBWR ;;
 esac
 case "$getspnam_r_proto" in
 "|0) try='struct spwd* getspnam_r(const char*, struct
 spwd*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getspnam_r_proto=S_CSBI ;;
 esac
 case "$getspnam_r_proto" in
 "|0) d_getspnam_r=undef
  getspnam_r_proto=0
  echo "Disabling getspnam_r, cannot determine prototype." >&4 ;;
 * ) case "$getspnam_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getspnam_r_proto="REENTRANT_PROTO_$getspnam_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getspnam_r has no prototype, not using it." >&4 ;;
  esac
  d_getspnam_r=undef
  getspnam_r_proto=0
  ;;
 esac
 ;;
*) getspnam_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getspnam_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_crypt.U,v $
?RCS:
?RCS: Copyright (c) 2002 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_crypt: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_crypt:
?S: This variable conditionally defines the I_CRYPT symbol, and indicates
?S: whether a C program should include <crypt.h>.
?S:.
```

```
?C:I_CRYPT:
?C: This symbol, if defined, indicates that <crypt.h> exists and
?C: should be included.
?C:.
?H:#$i_crypt I_CRYPT  /**/
?H:.
?LINT:set i_crypt
: see if this is a crypt.h system
set crypt.h i_crypt
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_crypt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: inc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: inc.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:inc incexp: Loc Oldconfig Getfile usrinc
?MAKE: -pick add $@ %<
?S:inc:
?S: This variable holds the name of the directory in which the user wants
?S: to put public header files for the package in question.  It is most
?S: often a local directory such as /usr/local/include.
?S:.
?S:incexp:
?S: This is the same as the inc variable, but is filename
 expaned
?S: at configuration time for convenient use in your makefiles.
?S:.
: determine where public header files go
case "$inc" in
")
 dflt=`./loc . "." /usr/local/include /usr/include/local $usrinc`
 ;;
*)  dflt="$inc"
```

```
 ;;
esac
fn=d~
rp='Where do you want to put the public header files?'
. ./getfile
inc="$ans"
incexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/inc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_tminsys.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_tminsys.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_tminsys: contains Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_tminsys:
?S: This variable conditionally defines TM_IN_SYS if this system
?S: declares "struct tm" in <sys/time.h> rather than <time.h>.
?S:.
?C:TM_IN_SYS (TMINSYS):
?C: This symbol is defined if this system declares "struct tm" in
?C: <sys/time.h> rather than <time.h>.
  We can't just say
?C: -I/usr/include/sys because some systems have both time files, and
?C: the -I trick gets the wrong one.
?C:.
?H:#$d_tminsys TM_IN_SYS  /**/
?H:.
?LINT:set d_tminsys
: see if struct tm is defined in sys/time.h
echo " "
if $contains 'struct tm' `./findhdr time.h` >/dev/null 2>&1 ; then
 echo "You have struct tm defined in <time.h> rather than <sys/time.h>." >&4
 val="$undef"
```

```
else
 echo "You have struct tm defined in <sys/time.h> rather than <time.h>." >&4
 val="$define"
fi
set d_tminsys
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_tminsys.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_attribut.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 2020, Raphael Manfredi, Karl Williamson
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_non_int_bitfields: \
    Myread Oldconfig cat cc ccflags Setvar compiler_warning rm_try
?MAKE: -pick add $@ %<
?S:d_non_int_bitfields:
?S: This variable conditionally defines HAS_NON_INT_BITFIELDS
?S: which indicates that the C compiler accepts struct bitfields of sizes
?S: that aren't 'int' or 'unsigned int'
?S:.
?C:HAS_NON_INT_BITFIELDS:
?C: This symbol, if defined, indicates that the C compiler accepts, without
?C: error or warning, struct bitfields
 that are declared with sizes other
?C: than plain 'int'; for example 'unsigned char' is accepted.
?C:.
?H:?%<:#$d_non_int_bitfields HAS_NON_INT_BITFIELDS /**/
?H:.
?LINT:set d_non_int_bitfields
?F:!try.out !try.c
: Look for non 'int'-sized bitfields
case "$d_non_int_bitfields" in
")
echo " " >&4
echo "Checking whether your compiler can handle struct bitfields that aren't 'int' or 'unsigned int' ..." >&4
$cat >try.c <<'EOCP'
#include <stdio.h>
struct foo {
```

```
   unsigned char byte:1;
   unsigned short halfword:1;
} bar;
EOCP
if $cc $ccflags -c try.c >try.out 2>&1 ; then
 if $compiler_warning try.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support struct bitfields that aren't 'int' or 'unsigned int'." >&4
  val="$undef"
 else
  echo "Your C compiler supports struct bitfields besides 'int' and 'unsigned int'." >&4
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand struct bitfields that aren't 'int' or 'unsigned int' at all." >&4
 val="$undef"
fi
;;
*)
 val="$d_non_int_bitfields" ;;
esac
set d_non_int_bitfields
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_bitfield.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getnetent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getnetent_r getnetent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getnetent_r:
?S: This variable conditionally defines the HAS_GETNETENT_R symbol,
?S: which indicates to the C program that the getnetent_r()
?S: routine is available.
?S:.
?S:getnetent_r_proto:
?S: This variable encodes the prototype of getnetent_r.
?S: It is zero if d_getnetent_r is undef, and one of the
```

```
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getnetent_r
?S: is defined.
?S:.
?C:HAS_GETNETENT_R:
?C: This symbol, if defined, indicates that the getnetent_r routine
?C: is
 available to getnetent re-entrantly.
?C:.
?C:GETNETENT_R_PROTO:
?C: This symbol encodes the prototype of getnetent_r.
?C: It is zero if d_getnetent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getnetent_r
?C: is defined.
?C:.
?H:#$d_getnetent_r HAS_GETNETENT_R /**/
?H:#define GETNETENT_R_PROTO $getnetent_r_proto /**/
?H:.
?T:try hdrs d_getnetent_r_proto
: see if getnetent_r exists
set getnetent_r d_getnetent_r
eval $inlibc
case "$d_getnetent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getnetent_r_proto:$usethreads" in
 ":define") d_getnetent_r_proto=define
  set d_getnetent_r_proto getnetent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getnetent_r_proto" in
 define)
 case "$getnetent_r_proto" in
 "|0) try='int getnetent_r(struct netent*, char*, size_t, struct netent**, int*);'
 ./protochk "$extern_C $try" $hdrs && getnetent_r_proto=I_SBWRE ;;
 esac
 case "$getnetent_r_proto" in
 "|0) try='int getnetent_r(struct
 netent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && getnetent_r_proto=I_SBIE ;;
 esac
 case "$getnetent_r_proto" in
 "|0) try='struct netent* getnetent_r(struct netent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && getnetent_r_proto=S_SBIE ;;
 esac
 case "$getnetent_r_proto" in
 "|0) try='struct netent* getnetent_r(struct netent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getnetent_r_proto=S_SBI ;;
```

```
 esac
 case "$getnetent_r_proto" in
 "|0) try='int getnetent_r(struct netent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getnetent_r_proto=I_SBI ;;
 esac
 case "$getnetent_r_proto" in
 "|0) try='int getnetent_r(struct netent*, struct netent_data*);'
 ./protochk "$extern_C $try" $hdrs && getnetent_r_proto=I_SD ;;
 esac
 case "$getnetent_r_proto" in
 "|0) d_getnetent_r=undef
  getnetent_r_proto=0
  echo "Disabling getnetent_r, cannot determine prototype." >&4 ;;
 * ) case "$getnetent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getnetent_r_proto="REENTRANT_PROTO_$getnetent_r_proto"
 ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getnetent_r has no prototype, not using it." >&4 ;;
  esac
  d_getnetent_r=undef
  getnetent_r_proto=0
  ;;
 esac
 ;;
*) getnetent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getnetent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysuio.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysuio: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysuio:
```

```
?S: This variable conditionally defines the I_SYSUIO symbol, and indicates
?S: whether a C program should include <sys/uio.h>.
?S:.
?C:I_SYSUIO:
?C: This symbol, if defined, indicates that <sys/uio.h> exists and
?C: should be included.
?C:.
?H:#$i_sysuio I_SYSUIO  /**/
?H:.
?LINT:set i_sysuio
: see if this is a sys/uio.h system
set sys/uio.h i_sysuio
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_sysuio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: myhostname.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:15:55  ram
?RCS: patch61: improved hostname lookup by using ypmatch when NIS is used
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:25:43  ram
?RCS: patch36: call ./xenix explicitly instead of relying on PATH
?RCS: patch36: now uses new Tr unit to convert to/from lowercase
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:06:20  ram
?RCS: patch30: now a little more clever for domain name guessing
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:18  ram
?RCS:
 Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:myhostname phostname mydomain: contains sed test Myread Oldconfig \
 Guess Loc awk echo sort uniq +usrinc rm hostcat Tr osname
?MAKE: -pick add $@ %<
?S:myhostname (hostname):
```

```
?S: This variable contains the eventual value of the MYHOSTNAME symbol,
?S: which is the name of the host the program is going to run on.
?S: The domain is not kept with hostname, but must be gotten from mydomain.
?S: The dot comes with mydomain, and need not be supplied by the program.
?S:.
?S:mydomain:
?S: This variable contains the eventual value of the MYDOMAIN symbol,
?S: which is the domain of the host the program is going to run on.
?S: The domain must be appended to myhostname to form a complete host name.
?S: The dot comes with mydomain, and need not be supplied by the program.
?S:.
?S:phostname:
?S: This variable contains the eventual value of the PHOSTNAME symbol,
?S: which is a command that can be fed to popen() to get the host name.
?S: The program
 should probably not presume that the domain is or isn't
?S: there already.
?S:.
?C:MYHOSTNAME (HOSTNAME):
?C: This symbol contains name of the host the program is going to run on.
?C: The domain is not kept with hostname, but must be gotten from MYDOMAIN.
?C: The dot comes with MYDOMAIN, and need not be supplied by the program.
?C: If gethostname() or uname() exist, MYHOSTNAME may be ignored. If MYDOMAIN
?C: is not used, MYHOSTNAME will hold the name derived from PHOSTNAME.
?C:.
?C:MYDOMAIN:
?C: This symbol contains the domain of the host the program is going to
?C: run on.  The domain must be appended to HOSTNAME to form a complete
?C: host name.  The dot comes with MYDOMAIN, and need not be supplied by
?C: the program.  If the host name is derived from PHOSTNAME, the domain
?C: may or may not already be there, and the program should check.
?C:.
?H:#define MYHOSTNAME "$myhostname"  /**/
?H:#define MYDOMAIN "$mydomain"  /**/
?H:.
?T:cont i tans tmp_re file
: now get the host name
echo
 " "
echo "Figuring out host name..." >&4
case "$myhostname" in
") cont=true
 echo 'Maybe "hostname" will work...'
 if tans=`sh -c hostname 2>&1` ; then
  myhostname=$tans
  phostname=hostname
  cont="
 fi
```

```
 ;;
*) cont=";;
esac
if $test "$cont"; then
 if ./xenix; then
  echo 'Oh, dear.  Maybe "/etc/systemid" is the key...'
  if tans=`cat /etc/systemid 2>&1` ; then
   myhostname=$tans
   phostname='cat /etc/systemid'
   echo "Whadyaknow.  Xenix always was a bit strange..."
   cont=''
  fi
 elif $test -r /etc/systemid; then
  echo "(What is a non-Xenix system doing with /etc/systemid?)"
 fi
fi
if $test "$cont"; then
 echo 'No, maybe "uuname -l" will work...'
 if tans=`sh -c 'uuname -l' 2>&1` ; then
  myhostname=$tans
  phostname='uuname -l'
 else
  echo 'Strange.  Maybe "uname -n" will work...'
  if tans=`sh -c 'uname -n' 2>&1` ; then
   myhostname=$tans
   phostname='uname -n'
  else
   echo 'Oh well, maybe I can mine it out of whoami.h...'
   if tans=`sh -c $contains' sysname $usrinc/whoami.h'
 2>&1` ; then
    myhostname=`echo "$tans" | $sed 's/^.*"\(.*\)"/\1/'`
    phostname="sed -n -e ""/sysname/s/^.*\"\\(.*\\)\"/\1/{"" -e p -e q -e '}' <$usrinc/whoami.h"
   else
    case "$myhostname" in
    '') echo "Does this machine have an identity crisis or something?"
     phostname='';;
    *)
     echo "Well, you said $myhostname before..."
     phostname='echo $myhostname';;
    esac
   fi
  fi
 fi
fi
case "$myhostname" in
'') myhostname=noname ;;
esac
: you do not want to know about this
```

```
set $myhostname
myhostname=$1

: verify guess
if $test "$myhostname" ; then
 dflt=y
 rp='Your host name appears to be "'$myhostname'".' Right?"
 . ./myread
 case "$ans" in
 y*) ;;
 *) myhostname='';;
 esac
fi

: bad guess or no guess
while $test "X$myhostname" = X ; do
 dflt=''
 rp="Please type the (one word) name of your host:"
 . ./myread
 myhostname="$ans"
done

: translate upper to lower if necessary
case "$myhostname" in
*[A-Z]*)
 echo "(Normalizing case in your host name)"
 myhostname=`echo
 $myhostname | ./tr '[A-Z]' '[a-z]'`
 ;;
esac

?X: Do not ask for domain name if this is not used later on. In that
?X: case, the hostname may keep its domain name, but it doesn't matter.
@if MYDOMAIN || mydomain
case "$myhostname" in
*.*)
 dflt=`expr "X$myhostname" : "X[^.]*\(\..*\)"`
 myhostname=`expr "X$myhostname" : "X\([^.]*\)\."`
 echo "(Trimming domain name from host name--host name is now $myhostname)"
 ;;
*) case "$mydomain" in
 '')
?X:
?X: There is currently no way to say we do not want hostcat if mydomain is not
?X: used. One way to achieve that would be to put that code in a mydomain.U
?X: unit. However, we want to stick the sanity checks right after the domain
?X: name computation, or if none is done, right after the hostname computation.
?X:
```

```
  {
?X: If we use NIS, try ypmatch.
   test "X$hostcat" = "Xypcat hosts" &&
   ypmatch "$myhostname" hosts 2>/dev/null |\
    $sed -e 's/[  ]*#.*//; s/$/ /' > hosts && \
   $test -s hosts
  } || {
?X: Extract only
 the relevant hosts, reducing file size,
?X: remove comments, insert trailing space for later use.
        $hostcat | $sed -n -e "s/[  ]*#.*//; s/\$/ /
     /[  ]$myhostname[ . ]/p" > hosts
  }
  tmp_re="[ . ]"
  $test x`$awk "/[0-9].*[  ]$myhostname$tmp_re/ { sum++ }
        END { print sum }" hosts` = x1 || tmp_re="[  ]"
  dflt=.`$awk \
  "/[0-9].*[  ]$myhostname$tmp_re/ {for(i=2; i<=NF;i++) print \\\$i}" \
   hosts | $sort | $uniq | \
   $sed -n -e "s/$myhostname\.\([-a-zA-Z0-9_.]\)/\1/p"`
  case `$echo X$dflt` in
  X*\ *) echo "(Several hosts in /etc/hosts matched hostname)"
   dflt=.
   ;;
?X: There is no /etc/hosts on os390
  X.)
   if $test -f /etc/hosts; then
    echo "(You do not have fully-qualified names in /etc/hosts)"
   else
    echo "(I cannot locate a hosts database anywhere)"
   fi
   ;;
  esac
  case "$dflt" in
  .)
   tans=`./loc resolv.conf X /etc /usr/etc`
   if $test -f "$tans"; then
    echo "(Attempting domain name extraction from $tans)"
?X: Look for either a search
 or a domain directive.
    dflt=.`$sed -n -e 's/ / /g' \
      -e 's/^search  *\([^ ]*\).*/\1/p' $tans \
      | ./tr '[A-Z]' '[a-z]' 2>/dev/null`
    case "$dflt" in
    .) dflt=.`$sed -n -e 's/ / /g' \
         -e 's/^domain  *\([^ ]*\).*/\1/p' $tans \
         | ./tr '[A-Z]' '[a-z]' 2>/dev/null`
      ;;
```

```
    esac
   fi
   ;;
  esac
  case "$dflt" in
  .) echo "(No help from resolv.conf either -- attempting clever guess)"
   dflt=.`sh -c domainname 2>/dev/null`
   case "$dflt" in
   ") dflt='.';;
   .nis.*|.yp.*|.main.*) dflt=`echo $dflt | $sed -e 's/^\.[^.]*//'`;;
   esac
   ;;
  esac
  case "$dflt$osname" in
  .os390)
   file="//'SYS1.TCPPARMS(TCPDATA)'"
   echo "(Attempting domain name extraction from $file)"
   dflt=.`awk '/^DOMAINORIGIN/ {print $2}' "$file" 2>/dev/null`
   ;;
   esac
  case "$dflt" in
  .) echo "(Lost all hope -- silly guess then)"
   dflt='.nonet'
   ;;
  esac
  $rm -f hosts
  ;;
 *) dflt="$mydomain";;
 esac;;
esac
echo " "
rp="What is your domain name?"
.
 ./myread
tans="$ans"
case "$ans" in
") ;;
.*) ;;
*) tans=".$tans";;
esac
mydomain="$tans"

: translate upper to lower if necessary
case "$mydomain" in
*[A-Z]*)
 echo "(Normalizing case in your domain name)"
 mydomain=`echo $mydomain | ./tr '[A-Z]' '[a-z]'`
 ;;
```

```
esac

@end
: a little sanity check here
case "$phostname" in
") ;;
*)
 case `$phostname | ./tr '[A-Z]' '[a-z]'` in
 $myhostname$mydomain|$myhostname) ;;
 *)
  case "$phostname" in
  sed*)
   echo "(That doesn't agree with your whoami.h file, by the way.)"
   ;;
  *)
   echo "(That doesn't agree with your $phostname command, by the way.)"
   ;;
  esac
 ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/myhostname.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_remainder: Inlibc
?MAKE: -pick add $@ %<
?S:d_remainder:
?S: This variable conditionally defines the HAS_REMAINDER symbol, which
?S: indicates to the C program that the remainder() routine is available.
?S:.
?C:HAS_REMAINDER:
?C: This symbol, if defined, indicates that the remainder routine is
?C: available to return the floating-point remainder.
?C:.
?H:#$d_remainder HAS_REMAINDER  /**/
?H:.
?LINT:set d_remainder
: see if remainder exists
set remainder d_remainder
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_remainder.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: nis.U,v 3.0.1.3 1997/02/28 16:17:38 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: nis.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:17:38  ram
?RCS: patch61: ensure suitable defaults for hostcat and friends
?RCS:
?RCS: Revision 3.0.1.2  1995/03/21  08:48:34  ram
?RCS: patch52: continued fix for NeXT NIS/NetInfo handling
?RCS:
?RCS: Revision 3.0.1.1  1995/02/15  14:16:23  ram
?RCS: patch51: now correctly handles NeXT using NIS rather than NetInfo
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:passcat
 groupcat hostcat: Myread Oldconfig test contains
?MAKE: -pick add $@ %<
?S:passcat:
?S: This variable contains a command that produces the text of the
?S: /etc/passwd file.  This is normally "cat /etc/passwd", but can be
?S: "ypcat passwd" when NIS is used.
?S: On some systems, such as os390, there may be no equivalent
?S: command, in which case this variable is unset.
?S:.
?S:groupcat:
?S: This variable contains a command that produces the text of the
?S: /etc/group file.  This is normally "cat /etc/group", but can be
?S: "ypcat group" when NIS is used.
?S: On some systems, such as os390, there may be no equivalent
?S: command, in which case this variable is unset.
?S:.
?S:hostcat:
?S: This variable contains a command that produces the text of the
?S: /etc/hosts file.  This is normally "cat /etc/hosts", but can be
```

```
?S: "ypcat hosts" when NIS is used.
?S: On some systems, such as os390, there may be no equivalent
?S: command, in which case this variable is unset.
?S:.
:
 see if we have to deal with yellow pages, now NIS.
?X: NeXT gives us some fun here, as always, by having both NIS (former YP)
?X: and NetInfo. But since it has both, it's ok to put the test inside the if.
?X: Contributed by Thomas Neumann <tom@smart.bo.open.de>.
if $test -d /usr/etc/yp || $test -d /etc/yp || $test -d /usr/lib/yp; then
@if passcat || groupcat
 case "$passcat" in
 nidump*) ;;
 *)
  case "$passcat" in
  *ypcat*) dflt=y;;
  ") if $contains '^\+' /etc/passwd >/dev/null 2>&1; then
    dflt=y
   else
    dflt=n
   fi;;
  *) dflt=n;;
  esac
  echo " "
  rp='Are you getting the passwd file via yellow pages?'
  . ./myread
  case "$ans" in
  y*) passcat='ypcat passwd'
@if groupcat
   echo "(Assuming /etc/group is also distributed.)"
   groupcat='ypcat group'
@end
   ;;
  *) passcat='cat /etc/passwd'
@if groupcat
   echo "(Assuming /etc/group is also local.)"
   groupcat='cat /etc/group'
@end
   ;;
  esac
  ;;
 esac
@end
@if hostcat
 case "$hostcat" in
 nidump*) ;;
 *)
  case
```

```
 "$hostcat" in
  *ypcat*) dflt=y;;
  ") if $contains '^\+' /etc/passwd >/dev/null 2>&1; then
    dflt=y
   else
    dflt=n
   fi;;
  *) dflt=n;;
  esac
  echo " "
  rp='Are you getting the hosts file via yellow pages?'
  . ./myread
  case "$ans" in
  y*) hostcat='ypcat hosts';;
  *) hostcat='cat /etc/hosts';;
  esac
  ;;
 esac
@end
fi
?X: Ensure suitable default -- Manoj Srivastava
case "$hostcat" in
") test -f /etc/hosts && hostcat='cat /etc/hosts';;
esac
case "$groupcat" in
") test -f /etc/group && groupcat='cat /etc/group';;
esac
case "$passcat" in
") test -f /etc/passwd && passcat='cat /etc/passwd';;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/nis.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_int64_t: Inhdr cat rm_try Setvar Compile i_inttypes
?MAKE: -pick add $@ %<
```

```
?S:d_int64_t:
?S: This symbol will be defined if the C compiler supports int64_t.
?S:.
?C:HAS_INT64_T:
?C: This symbol will defined if the C compiler supports int64_t.
?C: Usually the <inttypes.h> needs to be included, but sometimes
?C: <sys/types.h> is enough.
?C:.
?H:#$d_int64_t     HAS_INT64_T              /**/
?H:.
?LINT:set d_int64_t
: check for int64_t
echo " "
echo "Checking to see if you have int64_t..." >&4
$cat >try.c <<EOCP
#include
 <sys/types.h>
#$i_inttypes I_INTTYPES
#ifdef I_INTTYPES
#include <inttypes.h>
#endif
int main() { int64_t x = 7; }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have int64_t."
else
 val="$undef"
 echo "You do not have int64_t."
fi
$rm_try
set d_int64_t
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_int64_t.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:usesocks: Myread Oldconfig Setvar
```

```
?MAKE: -pick add $@ %<
?Y:TOP
?S:usesocks:
?S: This variable conditionally defines the USE_SOCKS symbol,
?S: and indicates that Perl should be built to use SOCKS.
?S:.
?C:USE_SOCKS:
?C: This symbol, if defined, indicates that Perl should
?C: be built to use socks.
?C:.
?H:?%<:#ifndef USE_SOCKS
?H:?%<:#$usesocks USE_SOCKS  /**/
?H:?%<:#endif
?H:.
?LINT:set usesocks
?INIT:: set usesocks on the Configure command line to enable socks.
: Check is we will use socks
?X: We should really have some explanatory text here, and some
?X: automatic setting of sensible defaults.
case "$usesocks" in
$define|true|[yY]*) dflt='y';;
*) dflt='n';;
esac
cat <<EOM

Perl can be built to
 use the SOCKS proxy protocol library.  To do so,
Configure must be run with -Dusesocks.  If you use SOCKS you also need
to use the PerlIO abstraction layer, this will be implicitly selected.

If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp='Build Perl for SOCKS?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*)      val="$undef" ;;
esac
set usesocks
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/usesocks.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
```

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Typedef.U,v $
?RCS: Revision 3.0.1.3  1995/07/25  13:42:07  ram
?RCS: patch56: added backslash escapes within evals to prevent space problems
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:01:16  ram
?RCS: patch36: don't clobber visible 'val' variable, use 'varval' instead
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:05:14  ram
?RCS: patch32: created
?RCS:
?X:
?X: This unit checks for the definition of a given typedef.
?X:
?X: To use it, say:
?X: set typedef val_t default [includes]
?X: eval $typedef
?X:
?MAKE:Typedef:
 cppstdin cppminus cppflags rm contains Oldconfig
?MAKE: -pick add $@ %<
?F:!temp.c
?LINT:define typedef
?V:typedef
?S:typedef:
?S: This shell variable is used internally by Configure to check
?S: wether a given typedef is defined or not. A typical use is:
?S:  set typedef val_t default [includes]
?S:  eval $typedef
?S: That will return val_t set to default if the typedef was not found,
?S: to typedef otherwise. If no includes are specified, look in sys/types.h.
?S:.
?T:type var def inclist varval inc
: define an is-a-typedef? function
typedef='type=$1; var=$2; def=$3; shift; shift; shift; inclist=$@;
case "$inclist" in
"") inclist="sys/types.h";;
esac;
eval "varval=\$$var";
case "$varval" in
"")
```

```
 $rm -f temp.c;
 for inc in $inclist; do
  echo "#include <$inc>" >>temp.c;
 done;
 $cppstdin $cppflags $cppminus < temp.c >temp.E 2>/dev/null;
 if $contains $type temp.E >/dev/null 2>&1; then
  eval "$var=\$type";
 else
  eval "$var=\$def";
 fi;
 $rm -f temp.?;;
*) eval
 "$var=\$varval";;
esac'
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Typedef.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Oldsym.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Oldsym.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:06:58  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit follows the creation of the config.sh file. It adds some
?X: special symbols: defines from patchlevel.h file if any and PERL_CONFIG_SH,
?X: which is set to true. Then, we try to keep all the new symbols that
?X: may come from a hint
 file or a previous config.sh file.
?X:
?MAKE:Oldsym: Config_sh cat test hint src sed sort uniq perl_patchlevel
?MAKE: -pick add $@ %<
?T:PERL_CONFIG_SH PERL_PATCHLEVEL sym tmp
?F:!UU
```

```
: add special variables
$test -f $src/patchlevel.h && \
awk '/^#define[  ]+PERL_/ {printf "%s=%s\n",$2,$3}' $src/patchlevel.h >>config.sh
echo "PERL_PATCHLEVEL='$perl_patchlevel'" >>config.sh
echo "PERL_CONFIG_SH=true" >>config.sh

: propagate old symbols
if $test -f UU/config.sh; then
?X: Make sure each symbol is unique in oldconfig.sh
 <UU/config.sh $sort | $uniq >UU/oldconfig.sh
?X:
?X: All the symbols that appear twice come only from config.sh (hence the
?X: two config.sh in the command line). These symbols will be removed by
?X: the uniq -u command. The oldsyms file thus contains all the symbols
?X: that did not appear in the produced config.sh (Larry Wall).
?X:
?X: Do not touch the -u flag of uniq.  This means you too, Jarkko.
?X:
 $sed -n 's/^\([a-zA-Z_0-9]*\)=.*/\1/p' \
  config.sh config.sh UU/oldconfig.sh
 |\
  $sort | $uniq -u >UU/oldsyms
 set X `$cat UU/oldsyms`
 shift
 case $# in
 0) ;;
 *)
  $cat <<EOM
Hmm...You had some extra variables I don't know about...I'll try to keep 'em...
EOM
  echo ": Variables propagated from previous config.sh file." >>config.sh
  for sym in `$cat UU/oldsyms`; do
   echo "    Propagating $hint variable "'$'"$sym..."
   eval 'tmp="$'"${sym}"'"'
   echo "$tmp" | \
    sed -e "s/'/'\''\''/g" -e "s/^/$sym='/" -e "s/$/'/" >>config.sh
  done
  ;;
 esac
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Oldsym.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_lockf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_lockf.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:09:36  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_lockf: Inlibc
?MAKE: -pick add $@ %<
?S:d_lockf:
?S: This variable conditionally defines HAS_LOCKF if lockf() is
?S: available to do file locking.
?S:.
?C:HAS_LOCKF (LOCKF):
?C: This symbol, if defined, indicates that the lockf routine is
?C: available to do file locking.
?C:.
?H:#$d_lockf
 HAS_LOCKF  /**/
?H:.
?LINT:set d_lockf
: see if lockf exists
set lockf d_lockf
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_lockf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_getprpwnam: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_getprpwnam:
?S: This variable conditionally defines HAS_GETPRPWNAM if getprpwnam() is
?S: available to retrieve protected (shadow) password entries by name.
?S:.
?C:HAS_GETPRPWNAM:
?C: This symbol, if defined, indicates that the getprpwnam system call is
?C: available to retrieve protected (shadow) password entries by name.
?C:.
?H:#$d_getprpwnam HAS_GETPRPWNAM  /**/
?H:.
?LINT:set d_getprpwnam
: see if getprpwnam exists
set getprpwnam d_getprpwnam
eval $inlibc
```

Found
 in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getprpwnam.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strerror.U,v 3.0.1.3 1994/05/13 15:20:27 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_strerror.U,v $
?RCS: Revision 3.0.1.3  1994/05/13  15:20:27  ram
?RCS: patch27: now uses new macro support for cleaner Strerror def
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  14:58:26  ram
?RCS: patch23: renamed strerror into Strerror to protect name space (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:08:56  ram
?RCS: patch16: protected code looking for sys_errnolist[] with @if
?RCS: patch16: added default value for d_sysernlst
?RCS:
?RCS: Revision
 3.0  1993/08/18  12:07:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_syserrlst d_sysernlst: Csym Findhdr
```

```
?MAKE: -pick add $@ %<
?S:d_syserrlst:
?S: This variable conditionally defines HAS_SYS_ERRLIST if sys_errlist[] is
?S: available to translate error numbers to strings.
?S:.
?S:d_sysernlst:
?S: This variable conditionally defines HAS_SYS_ERRNOLIST if sys_errnolist[]
?S: is available to translate error numbers to the symbolic name.
?S:.
?C:HAS_SYS_ERRLIST (SYSERRLIST):
?C: This symbol, if defined, indicates that the sys_errlist array is
?C: available to translate error numbers to strings. The extern int
?C: sys_nerr gives the size of that table.
?C:.
?C:HAS_SYS_ERRNOLIST (SYSERRNOLIST):
?C: This symbol, if defined, indicates that the sys_errnolist array is
?C: available to translate an errno code into its symbolic name (e.g.
?C: ENOENT). The extern int sys_nerrno gives the size of that table.
?C:.
?H:#$d_syserrlst HAS_SYS_ERRLIST /**/
?H:#$d_sysernlst HAS_SYS_ERRNOLIST /**/
?H:.
?D:d_sysernlst=''
?T:val
:
 see if sys_errlist[] exists
echo " "
if test "X$d_syserrlst" = X; then
 if set sys_errlist val -a d_syserrlst; eval $csym; $val; then
  echo "You have sys_errlist[], so we could roll our own strerror."
  d_syserrlst="$define"
 else
  echo "You don't have sys_errlist[], so strerror() is welcome."
  d_syserrlst="$undef"
 fi
fi
@if d_sysernlst || HAS_SYS_ERRNOLIST
if set sys_errnolist val -a d_sysernlst; eval $csym; $val; then
 echo "(Symbolic error codes can be fetched via the sys_errnolist[] array.)"
 d_sysernlst="$define"
else
 echo "(However, I can't extract the symbolic error code out of errno.)"
 d_sysernlst="$undef"
fi
@end
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/U/modified/d_strerror.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_byacc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_byacc.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:31:14  ram
?RCS: patch61: created
?RCS:
?MAKE:d_byacc: byacc Setvar
?MAKE: -pick add $@ %<
?S:d_byacc:
?S: This variable indicates whether byacc is available.
?S: If the user has specified 'portability', then Makefile.SH
?S: sees $byacc='byacc' whether or not the user actually has
?S: byacc.  This variable allows us to determine in a makefile
?S: if we really
 have byacc.
?S:.
?LINT:set d_byacc
: Check if we really have byacc
case "$byacc" in
"|'byacc') val="$undef" ;;
*) val="$define" ;;
esac
set d_byacc
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_byacc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_htonl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_htonl.U,v $
?RCS: Revision 3.0.1.2  1994/08/29  16:09:25  ram
?RCS: patch32: now properly handles htonl() and friends when macros (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:45:00  ram
?RCS: patch23: now also check for htonl() macro (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:22  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_htonl: Inlibc Setvar i_niin i_sysin i_arpainet cat rm contains \
 cppstdin cppflags cppminus
?MAKE: -pick
 add $@ %<
?S:d_htonl:
?S: This variable conditionally defines HAS_HTONL if htonl() and its
?S: friends are available to do network order byte swapping.
?S:.
?C:HAS_HTONL (HTONL):
?C: This symbol, if defined, indicates that the htonl() routine (and
?C: friends htons() ntohl() ntohs()) are available to do network
?C: order byte swapping.
?C:.
?C:HAS_HTONS (HTONS):
?C: This symbol, if defined, indicates that the htons() routine (and
?C: friends htonl() ntohl() ntohs()) are available to do network
?C: order byte swapping.
?C:.
?C:HAS_NTOHL (NTOHL):
?C: This symbol, if defined, indicates that the ntohl() routine (and
?C: friends htonl() htons() ntohs()) are available to do network
?C: order byte swapping.
?C:.
?C:HAS_NTOHS (NTOHS):
?C: This symbol, if defined, indicates that the ntohs() routine (and
?C: friends htonl() htons() ntohl()) are available to do network
?C: order byte swapping.
?C:.
?H:#$d_htonl HAS_HTONL  /**/
?H:#$d_htonl HAS_HTONS  /**/
?H:#$d_htonl HAS_NTOHL  /**/
?H:#$d_htonl
 HAS_NTOHS  /**/
?H:.
```

```
?F:!htonl.c
?LINT:set d_htonl
: see if htonl --and friends-- exists
val=''
set htonl val
eval $inlibc

: Maybe they are macros.
case "$val" in
$undef)
 $cat >htonl.c <<EOM
#include <stdio.h>
#include <sys/types.h>
#$i_niin I_NETINET_IN
#$i_sysin I_SYS_IN
#$i_arpainet I_ARPA_INET
#ifdef I_NETINET_IN
#include <netinet/in.h>
#endif
#ifdef I_SYS_IN
#include <sys/in.h>
#endif
#ifdef I_ARPA_INET
#include <arpa/inet.h>
#endif
#ifdef htonl
printf("Defined as a macro.");
#endif
EOM
 $cppstdin $cppflags $cppminus < htonl.c >htonl.E 2>/dev/null
 if $contains 'Defined as a macro' htonl.E >/dev/null 2>&1; then
  val="$define"
  echo "But it seems to be defined as a macro." >&4
 fi
 $rm -f htonl.?
 ;;
esac
set d_htonl
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_htonl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: prefix.U,v 3.1 1999/07/08 18:27:51 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
```

```
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: prefix.U,v $
?RCS: Revision 3.1  1999/07/08 18:27:51  doughera
?RCS: 5.005_5x version -- Andy Dougherty
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:44:05  ram
?RCS: patch49: new prefixexp variable holding a fully expanded prefix
?RCS: patch49: save off previous prefix value in oldprefix if changed (WED)
?RCS: patch49: added the INSTALLPREFIX define for C programs to use (WED)
?RCS:
?RCS:
 Revision 3.0.1.1  1994/08/29  16:31:34  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:prefix prefixexp +oldprefix: Getfile Loc Oldconfig cat package
?MAKE: -pick add $@ %<
?S:prefix:
?S: This variable holds the name of the directory below which the
?S: user will install the package.  Usually, this is /usr/local, and
?S: executables go in /usr/local/bin, library stuff in /usr/local/lib,
?S: man pages in /usr/local/man, etc.  It is only used to set defaults
?S: for things in bin.U, mansrc.U, privlib.U, or scriptdir.U.
?S:.
?S:prefixexp:
?S: This variable holds the full absolute path of the directory below
?S: which the user will install the package.  Derived from prefix.
?S:.
?S:oldprefix:
?S: This variable is set non-null if the prefix was previously defined
?S: and gets set to a new value. Used internally by Configure only.
?S:.
?C:INSTALLPREFIX:
?C: This symbol contains the name of the install prefix for this package.
?C:.
?H:#define INSTALLPREFIX "$prefix"  /**/
?H:.
:
 determine root of directory hierarchy where package will be installed.
case "$prefix" in
") dflt=`./loc . /usr/local /usr/local /local /opt /usr`
```

```
 ;;
*) dflt="$prefix"
 ;;
esac
$cat <<EOM

By default, $package will be installed in $dflt/bin, manual pages
under $dflt/man, etc..., i.e. with $dflt as prefix for all
installation directories. Typically this is something like /usr/local.
If you wish to have binaries under /usr/bin but other parts of the
installation under /usr/local, that's ok: you will be prompted
separately for each of the installation directories, the prefix being
only used to set the defaults.

EOM
fn=d~
rp='Installation prefix to use?'
. ./getfile
oldprefix=''
case "$prefix" in
'') ;;
*) case "$ans" in
 "$prefix") ;;
 *) oldprefix="$prefix";;
 esac
 ;;
esac

case "$ans" in
*?/) prefix=`echo "$ans" | sed 's/.$//'`
 ;;
*) prefix="$ans"
esac

case "$ansexp" in
*?/) prefixexp=`echo "$ansexp" | sed 's/.$//'`
 ;;
*) prefixexp="$ansexp"
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/prefix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fsetpos.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_fsetpos.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  06:57:38  ram
?RCS: patch30: created
?RCS:
?MAKE:d_fsetpos: Inlibc
?MAKE: -pick add $@ %<
?S:d_fsetpos:
?S: This variable conditionally defines HAS_FSETPOS if fsetpos() is
?S: available to set the file position indicator.
?S:.
?C:HAS_FSETPOS:
?C: This symbol, if defined, indicates that the fsetpos routine is
?C: available to set the file position indicator, similar to fseek().
?C:.
?H:#$d_fsetpos
 HAS_FSETPOS /**/
?H:.
?LINT:set d_fsetpos
: see if fsetpos exists
set fsetpos d_fsetpos
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_fsetpos.U
No license file was found, but licenses were detected in source scan.

```
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:sizesize: Myread Typedef sizetype Compile run i_stdlib
?MAKE: -pick add $@ %<
?S:sizesize:
?S: This variable contains the size of a sizetype in bytes.
?S:.
```

```
?C:Size_t_size:
?C: This symbol holds the size of a Size_t in bytes.
?C:.
?H:#define Size_t_size $sizesize  /**/
?H:.
?T:yyy zzz
?F:!try
: Check size of size
echo " "
case "$sizetype" in
*_t) zzz="$sizetype" ;;
*)   zzz="filesize" ;;
esac
echo "Checking the size of $zzz..." >&4
cat > try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include
 <stdlib.h>
#endif
int main() {
   printf("%d\n", (int)sizeof($sizetype));
   exit(0);
}
EOCP
set try
if eval $compile_ok; then
 yyy=`$run ./try`
 case "$yyy" in
 ") sizesize=4
  echo "(I can't execute the test program--guessing $sizesize.)" >&4
  ;;
 *) sizesize=$yyy
  echo "Your $zzz size is $sizesize bytes."
  ;;
 esac
else
 sizesize=4
 echo "(I can't compile the test program--guessing $sizesize.)" >&4
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/sizesize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2005, H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_malloc_size d_malloc_good_size d_malloc_usable_size: Inlibc
?MAKE: -pick add $@ %<
?S:d_malloc_size:
?S: This symbol, if defined, indicates that the malloc_size
?S: routine is available for use.
?S:.
?S:d_malloc_good_size:
?S: This symbol, if defined, indicates that the malloc_good_size
?S: routine is available for use.
?S:.
?S:d_malloc_usable_size:
?S: This symbol, if defined, indicates that the malloc_usable_size
?S: routine is available for use.
?S:.
?C:HAS_MALLOC_SIZE:
?C: This symbol, if defined, indicates that
 the malloc_size
?C: routine is available for use.
?C:.
?H:#$d_malloc_size HAS_MALLOC_SIZE  /**/
?H:.
?C:HAS_MALLOC_GOOD_SIZE:
?C: This symbol, if defined, indicates that the malloc_good_size
?C: routine is available for use.
?C:.
?H:#$d_malloc_good_size HAS_MALLOC_GOOD_SIZE /**/
?H:.
?C:HAS_MALLOC_USABLE_SIZE:
?C: This symbol, if defined, indicates that the malloc_usable_size
?C: routine is available for use.
?C:.
?H:#$d_malloc_usable_size HAS_MALLOC_USABLE_SIZE  /**/
?H:.
?LINT:set d_malloc_size
?LINT:set d_malloc_good_size
?LINT:set d_malloc_usable_size
: see if malloc_size exists
set malloc_size d_malloc_size
```

```
eval $inlibc

: see if malloc_size_good exists
set malloc_good_size d_malloc_good_size
eval $inlibc

: see if malloc_usable_size exists
set malloc_usable_size d_malloc_usable_size
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_malloc_size.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_gethent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_gethent: Inlibc
?MAKE: -pick add $@ %<
?S:d_gethent:
?S: This variable conditionally defines HAS_GETHOSTENT if gethostent() is
?S: available to dup file descriptors.
?S:.
?C:HAS_GETHOSTENT (GETHOSTENT):
?C: This symbol, if defined, indicates that the gethostent routine is
?C: available to lookup host names in some data base or other.
?C:.
?H:#$d_gethent HAS_GETHOSTENT  /**/
?H:.
?LINT:set
 d_gethent
: see if gethostent exists
set gethostent d_gethent
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_gethent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getnbyad.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getnbyname: Inlibc
?MAKE: -pick add $@ %<
?S:d_getnbyname:
?S: This variable conditionally defines the HAS_GETNETBYNAME symbol, which
?S: indicates to the C program that the getnetbyname() routine is available
?S: to look up networks by their names.
?S:.
?C:HAS_GETNETBYNAME:
?C: This symbol, if defined, indicates that the getnetbyname() routine is
?C: available to look up networks by their names.
?C:.
?H:#$d_getnbyname HAS_GETNETBYNAME  /**/
?H:.
?LINT:set d_getnbyname
: see if getnetbyname exists
set getnetbyname d_getnbyname
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_getnbynm.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_csh.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:32:18  ram
?RCS: patch61: added full_csh to preserve the full path even when portable
?RCS:
```

```
?RCS: Revision 3.0  1993/08/18  12:05:53  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_csh full_csh: csh Setvar
?MAKE: -pick add $@ %<
?S:d_csh:
?S: This variable conditionally defines the CSH symbol, which
?S: indicates to the C program that the C-shell exists.
?S:.
?S:full_csh:
?S: This variable contains the full pathname to 'csh', whether
 or
?S: not the user has specified 'portability'.  This is only used
?S: in the compiled C program, and we assume that all systems which
?S: can share this executable will have the same full pathname to
?S: 'csh.'
?S:.
?C:HAS_CSH:
?C: This symbol, if defined, indicates that the C-shell exists.
?C:.
?C:CSH:
?C: This symbol, if defined, contains the full pathname of csh.
?C:.
?X: Previously, I just did $d_csh CSH "$full_csh", but that caused
?X: problems on VMS where the config.sh extraction program changes
?X: $undef to a real cpp undef, and they then had  #undef CSH ""
?X: which the compiler didn't like.  It's easy to work around this,
?X: so I did.  --AD  3/1998.
?X: And we don't want to define CSH if !HAS_CSH, but we don't want
?X: those lines in config.h if they don't need CSH, so protect with ?CSH
?X: and not ?%<. --RAM, 15/02/2004
?H:?%<:#$d_csh HAS_CSH  /**/
?H:?CSH:#ifdef HAS_CSH
?H:?CSH:#define CSH "$full_csh" /**/
?H:?CSH:#endif
?H:.
?LINT:set d_csh
: get csh whereabouts
case
 "$csh" in
'csh') val="$undef" ;;
*) val="$define" ;;
esac
set d_csh
eval $setvar
: Respect a hint or command line value for full_csh.
case "$full_csh" in
") full_csh=$csh ;;
```

esac

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_csh.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Oldconfig.U,v $
?RCS: Revision 3.0.1.10  1997/02/28  15:06:39  ram
?RCS: patch61: added support for src.U
?RCS: patch61: new OSNAME define
?RCS: patch61: can now sense new OSes
?RCS:
?RCS: Revision 3.0.1.9  1995/07/25  13:40:51  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.8  1995/05/12  12:04:18  ram
?RCS: patch54: config.sh reload logic now knows about new -K switch
?RCS: patch54: cleaned up and extended osvers for DEC OSF/1 (ADO)
?RCS: patch54: added MachTen detection
 (ADO)
?RCS:
?RCS: Revision 3.0.1.7  1995/02/15  14:13:41  ram
?RCS: patch51: adapted osvers computation for AIX (ADO)
?RCS:
?RCS: Revision 3.0.1.6  1995/01/30  14:27:15  ram
?RCS: patch49: unit Options.U now exports file optdef.sh, not a variable
?RCS: patch49: update code for myuname changed (WED)
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:15:36  ram
?RCS: patch45: added quotes around the INITPROG variable (ADO)
?RCS: patch45: allows variable overriding after config file loading
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  15:57:05  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: merged with the version used for perl5's Configure (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/05/06  14:24:17  ram
```

```
?RCS: patch23: added support for osf1 hints
?RCS: patch23: new support for solaris and i386 systems (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:05:02  ram
?RCS: patch16: added post-processing on myuname for Xenix targets
?RCS: patch16: message proposing config.sh
 defaults made consistent
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  15:56:32  ram
?RCS: patch10: force use of config.sh when -d option is used (WAD)
?RCS: patch10: complain about non-existent hint files (WAD)
?RCS: patch10: added Options dependency for fastread variable
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:12  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit tries to remember what we did last time we ran Configure, mostly
?X: for the sake of setting defaults.
?X:
?MAKE:Oldconfig hint myuname osname osvers: Instruct Myread Checkcc \
 Mksymlinks Loc Options Tr src trnl ln uname sh awk sed test cat grep \
 rm lns tr n c contains targetarch
?MAKE: -pick wipe $@ %<
?S:myuname:
?S: The output of 'uname -a' if available, otherwise the hostname. On Xenix,
?S: pseudo variables assignments in the output are stripped, thank you. The
?S: whole thing is then lower-cased.
?S:.
?S:hint:
?S: Gives the type of hints used for previous answers. May be one of
?S: "default",
 "recommended" or "previous".
?S:.
?S:osname:
?S: This variable contains the operating system name (e.g. sunos,
?S: solaris, hpux, etc.).  It can be useful later on for setting
?S: defaults.  Any spaces are replaced with underscores.  It is set
?S: to a null string if we can't figure it out.
?S:.
?S:osvers:
?S: This variable contains the operating system version (e.g.
?S: 4.1.3, 5.2, etc.).  It is primarily used for helping select
?S: an appropriate hints file, but might be useful elsewhere for
?S: setting defaults.  It is set to '' if we can't figure it out.
?S: We try to be flexible about how much of the version number
?S: to keep, e.g. if 4.1.1, 4.1.2, and 4.1.3 are essentially the
?S: same for this package, hints files might just be os_4.0 or
```

```
?S: os_4.1, etc., not keeping separate files for each little release.
?S:.
?C:OSNAME:
?C: This symbol contains the name of the operating system, as determined
?C: by Configure.  You shouldn't rely on it too much; the specific
?C: feature
 tests from Configure are generally more reliable.
?C:.
?C:OSVERS:
?C: This symbol contains the version of the operating system, as determined
?C: by Configure.  You shouldn't rely on it too much; the specific
?C: feature tests from Configure are generally more reliable.
?C:.
?H:#define OSNAME "$osname"  /**/
?H:#define OSVERS "$osvers"  /**/
?H:.
?F:!config.sh
?T:tmp tmp_n tmp_c tmp_sh file
?T:xxxxfile xxxfile xxfile xfile hintfile newmyuname
?T:tans _ isesix INITPROG DJGPP has_uname
?D:osname="
?LINT:change n c sh
?LINT:extern hostarch
?LINT:change hostarch
: Determine the name of the machine
myuname=`$uname -a 2>/dev/null`
$test -z "$myuname" && myuname=`hostname 2>/dev/null`
?X: Special mention for Xenix, whose 'uname -a' gives us output like this:
?X:  sysname=XENIX
?X:  nodename=whatever
?X:  release=2.3.2 .. etc...
?X: Therefore, we strip all this variable assignment junk and remove all the
?X: new lines to keep the myuname variable sane... --RAM
myuname=`echo $myuname | $sed -e
 's/^[^=]*=//' -e 's/\//g' | \
 ./tr '[A-Z]' '[a-z]' | $tr $trnl ' '`
?X: Save the value we just computed to reset myuname after we get done here.
newmyuname="$myuname"
$test -f "$uname$_exe" && has_uname=y

: Guessing of the OS name -- half the following guesses are probably wrong...
: If you have better tests or hints, please send them to the metaconfig
: authors and to <MAINTLOC>
$test -f /irix && osname=irix
$test -f /xenix && osname=sco_xenix
$test -f /dynix && osname=dynix
$test -f /dnix && osname=dnix
$test -f /lynx.os && osname=lynxos
```

```
$test -f /unicos && osname=unicos && osvers=`$uname -r`
$test -f /unicosmk && osname=unicosmk && osvers=`$uname -r`
$test -f /unicosmk.ar && osname=unicosmk && osvers=`$uname -r`
$test -f /bin/mips && /bin/mips && osname=mips
$test -d /NextApps && set X `hostinfo | $grep 'NeXT Mach.*:' | \
 $sed -e 's/://' -e 's/\./_/'` && osname=next && osvers=$4
$test -d /usr/apollo/bin && osname=apollo
$test -f /etc/saf/_sactab && osname=svr4
$test -d /usr/include/minix
 && osname=minix
$test -f /system/gnu_library/bin/ar.pm && osname=vos
if $test -d /MachTen -o -d /MachTen_Folder; then
?X:  MachTen uname -a output looks like
?X:  xxx 4 0.0 Macintosh
?X:  MachTen /sbin/version output looks like
?X:  MachTen 4.0 Mon Aug 28 10:18:00 1995
?X:  MachTen 3.x had the 'version' command in /usr/etc/version.
 osname=machten
 if $test -x /sbin/version; then
  osvers=`/sbin/version | $awk '{print $2}' |
  $sed -e 's/[A-Za-z]$//'`
 elif $test -x /usr/etc/version; then
  osvers=`/usr/etc/version | $awk '{print $2}' |
  $sed -e 's/[A-Za-z]$//'`
 else
  osvers="$2.$3"
 fi
fi
$test -f /sys/posix.dll &&
 $test -f /usr/bin/what &&
 set X `/usr/bin/what /sys/posix.dll` &&
 $test "$3" = UWIN &&
 osname=uwin &&
 osvers="$5"
?X: If we have uname, we already computed a suitable uname -a output, correctly
?X: formatted for Xenix, and it lies in $myuname.
if $test "X$has_uname" != X; then
 set X $myuname
 shift
 case "$5" in
 fps*) osname=fps ;;
 mips*)
  case "$4"
 in
  umips) osname=umips ;;
  *) osname=mips ;;
  esac;;
 [23]100) osname=mips ;;
```

```
 next*) osname=next ;;
?X: Interactive Unix.
 i386*)
  tmp=`/bin/uname -X 2>/dev/null|awk '/3\.2v[45]/{ print $(NF) }'`
  if $test "$tmp" != "" -a "$3" = "3.2" -a -f '/etc/systemid'; then
   osname='sco'
   osvers=$tmp
  elif $test -f /etc/kconfig; then
   osname=isc
   if $test "$lns" = "$ln -s"; then
    osvers=4
   elif $contains _SYSV3 /usr/include/stdio.h > /dev/null 2>&1 ; then
    osvers=3
   elif $contains _POSIX_SOURCE /usr/include/stdio.h > /dev/null 2>&1 ; then
    osvers=2
   fi
  fi
  tmp=''
  ;;
?X: MS-DOS djgpp uname -a output looks like:
?X: ms-dos xxx 6 22 pc
?X:  $1 is the "dos flavor" (need not be "ms-dos").
?X:  $2 is the node name
?X:  $3 and $4 are version/subversion
?X:  $5 is always "pc", but that might not be unique to DJGPP.
?X: (e.g. Solaris_x86 has $5 = i86pc, which doesn't actually conflict,
?X: but it's close enought that I can easily imagine other vendors also
?X: using variants
 of pc* in $5.)
?X:  The "DJGPP" environment variable is always set when djgpp is active.
 pc*)
  if $test -n "$DJGPP"; then
   osname=dos
   osvers=djgpp
  fi
  ;;
 esac
 case "$1" in
 aix) osname=aix
?X: aix 4.1 uname -a output looks like
?X:  AIX  foo  1 4 000123456789
?X: where $4 is the major release number and $3 is the (minor) version.
?X: More detail on the version is available with the oslevel command.
?X: in 3.2.x, it output a string (see case statements below).  In 4.1,
?X: it puts out something like  4.1.1.0
  tmp=`( (oslevel) 2>/dev/null || echo "not found") 2>&1`
  case "$tmp" in
  'not found') osvers="$4"."$3" ;;
```

```
 '<3240'|'<>3240') osvers=3.2.0 ;;
 '=3240'|'>3240'|'<3250'|'<>3250') osvers=3.2.4 ;;
 '=3250'|'>3250') osvers=3.2.5 ;;
 *) osvers=$tmp;;
 esac
 ;;
bsd386) osname=bsd386
 osvers=`$uname -r`
 ;;
cygwin*) osname=cygwin
 osvers="$3"
 ;;
*dc.osx) osname=dcosx
 osvers="$3"
 ;;
dnix) osname=dnix
 osvers="$3"
 ;;
domainos) osname=apollo
 osvers="$3"
 ;;
dgux)
osname=dgux
 osvers="$3"
 ;;
?X:  uname -a returns
?X:  DYNIX/ptx xxx 4.0 V4.1.2 i386
dynixptx*) osname=dynixptx
 osvers=`echo "$4"|sed 's/^v//'`
 ;;
freebsd) osname=freebsd
 osvers="$3" ;;
genix) osname=genix ;;
?X: HP-UX uname -a gives something like
?X: HP-UX foobar B.10.20 A 9000/735 2016483812 two-user license
?X: Preserve the full 10.20 string instead of the previous plain '10'.
?X:  Thanks to Graham Barr.    --AD 6/30/1998
hp*) osname=hpux
 osvers=`echo "$3" | $sed 's,.*\.\([0-9]*\.[0-9]*\),\1,'`
 ;;
irix*) osname=irix
 case "$3" in
 4*) osvers=4 ;;
 5*) osvers=5 ;;
 *) osvers="$3" ;;
 esac
 ;;
linux) osname=linux
```

```
 case "$3" in
 *) osvers="$3" ;;
 esac
 ;;
MiNT) osname=mint
 ;;
netbsd*) osname=netbsd
 osvers="$3"
 ;;
news-os) osvers="$3"
 case "$3" in
 4*) osname=newsos4 ;;
 *) osname=newsos ;;
 esac
 ;;
next*) osname=next ;;
nonstop-ux) osname=nonstopux ;;
openbsd) osname=openbsd
   osvers="$3"
   ;;
POSIX-BC | posix-bc
) osname=posix-bc
 osvers="$3"
 ;;
powerux | power_ux | powermax_os | powermaxos | \
powerunix | power_unix) osname=powerux
 osvers="$3"
 ;;
qnx) osname=qnx
 osvers="$4"
 ;;
solaris) osname=solaris
 case "$3" in
 5*) osvers=`echo $3 | $sed 's/^5/2/g'` ;;
 *) osvers="$3" ;;
 esac
 ;;
sunos) osname=sunos
 case "$3" in
 5*) osname=solaris
  osvers=`echo $3 | $sed 's/^5/2/g'` ;;
 *) osvers="$3" ;;
 esac
 ;;
titanos) osname=titanos
 case "$3" in
 1*) osvers=1 ;;
 2*) osvers=2 ;;
```

```
  3*) osvers=3 ;;
  4*) osvers=4 ;;
  *) osvers="$3" ;;
  esac
  ;;
 ultrix) osname=ultrix
  osvers="$3"
  ;;
 osf1|mls+) case "$5" in
  alpha)
?X: DEC OSF/1 myuname -a output looks like:  osf1 xxxx t3.2 123.4 alpha
?X: where the version number can be something like [xvt]n.n
   osname=dec_osf
?X: sizer knows the minor minor version: the letter
   osvers=`sizer -v | awk '{print $3}' | \
    ./tr '[A-Z]' '[a-z]' | sed 's/^[xvt]//'`
   case "$osvers" in
   [1-9].[0-9]*) ;;
   *) osvers=`echo
 "$3" | sed 's/^[xvt]//'` ;;
   esac
   ;;
  hp*) osname=hp_osf1 ;;
  mips) osname=mips_osf1 ;;
?X: hp and mips were unsupported Technology Releases -- ADO, 24/10/94
  esac
  ;;
 unixware) osname=svr5
  osvers="$4"
  ;;
 uts) osname=uts
  osvers="$3"
  ;;
 vos) osvers="$3"
  ;;
 $2) case "$osname" in
  *isc*) ;;
  *freebsd*) ;;
  svr*)
   : svr4.x or possibly later
   case "svr$3" in
   ${osname}*)
    osname=svr$3
    osvers=$4
    ;;
   esac
   case "$osname" in
   svr4.0)
```

```
    : Check for ESIX
    if $test -f /stand/boot ; then
     eval `$grep '^INITPROG=[a-z/0-9]*$' /stand/boot`
     if $test -n "$INITPROG" -a -f "$INITPROG"; then
      isesix=`strings -a $INITPROG | \
       $grep 'ESIX SYSTEM V/386 Release 4.0'`
      if $test -n "$isesix"; then
       osname=esix4
      fi
     fi
    fi
    ;;
   esac
   ;;
  *) if $test -f /etc/systemid; then
    osname=sco
    set `echo $3 | $sed 's/\./ /g'` $4
    if $test -f $src/hints/sco_$1_$2_$3.sh; then
     osvers=$1.$2.$3
    elif $test
 -f $src/hints/sco_$1_$2.sh; then
     osvers=$1.$2
    elif $test -f $src/hints/sco_$1.sh; then
     osvers=$1
    fi
   else
    case "$osname" in
    ") : Still unknown.  Probably a generic Sys V.
     osname="sysv"
     osvers="$3"
     ;;
    esac
   fi
   ;;
  esac
  ;;
 *) case "$osname" in
  ") : Still unknown.  Probably a generic BSD.
   osname="$1"
   osvers="$3"
   ;;
  esac
  ;;
 esac
else
?X: Try to identify sony's NEWS-OS (BSD unix)
 if $test -f /vmunix -a -f $src/hints/news_os.sh; then
  (what /vmunix | UU/tr '[A-Z]' '[a-z]') > UU/kernel.what 2>&1
```

```
  if $contains news-os UU/kernel.what >/dev/null 2>&1; then
   osname=news_os
  fi
  $rm -f UU/kernel.what
?X: Maybe it's OS/2 or DOS or something similar
 elif $test -d c:/.; then
  set X $myuname
  osname=os2
  osvers="$5"
 fi
fi

: Try to determine whether config.sh was made on this system
case "$config_sh" in
")
?X: indentation wrong on purpose--RAM
dflt=n
case "$knowitall" in
")
 if test -f ../config.sh; then
  if $contains
 myuname= ../config.sh >/dev/null 2>&1; then
   eval "`$grep myuname= ../config.sh`"
  fi
  if test "X$myuname" = "X$newmyuname"; then
   dflt=y
  fi
 fi
 ;;
*) dflt=y;;
esac

: Get old answers from config file if it was generated on the same system
hint=default
if $test -f ../config.sh; then
 echo " "
 rp="I see a config.sh file.  Shall I use it to set the defaults?"
 . ./myread
 case "$ans" in
 n*|N*) echo "OK, I'll ignore it."
  mv ../config.sh ../config.sh.old
  myuname="$newmyuname"
  ;;
 *)  echo "Fetching default answers from your old config.sh file..." >&4
  tmp_n="$n"
  tmp_c="$c"
  tmp_sh="$sh"
  . ../config.sh
```

```
  cp ../config.sh .
  n="$tmp_n"
  c="$tmp_c"
  hint=previous
  ;;
 esac
fi
?X: remember, case indentation is wrong--RAM
;;
*)
 echo " "
 echo "Fetching default answers from $config_sh..." >&4
 tmp_n="$n"
 tmp_c="$c"
 tmp_sh="$sh"
 cd ..
?X: preserve symbolic links, if any
 cp $config_sh config.sh 2>/dev/null
 chmod +w config.sh
 . ./config.sh
 cd UU
 cp ../config.sh
 .
 n="$tmp_n"
 c="$tmp_c"
 hint=previous
 ;;
esac
?X: Older versions did not always set $sh.
case "$sh" in
") sh="$tmp_sh" ;;
esac
$test "$override" && . ./optdef.sh

: Restore computed paths
for file in $loclist $trylist; do
 eval $file="\$_$file"
done

. ./checkcc
?X: Cross-compiling support
case "$targetarch" in
") ;;
*)  hostarch=$osname
 osname=`echo $targetarch|sed 's,^[^-]*-,,'`
 osvers="
 ;;
esac
```

```
@if {test -d ../hints}
: Offer them some hints based on their OS
cd ..
?X: Since we are now at the root of the source tree, we must use $src
?X: to access the sources and not $rsrc. See src.U for details...
if $test ! -f config.sh; then
 $cat <<EOM

First time through, eh?  I have some defaults handy for some systems
that need some extra help getting the Configure answers right:

EOM
 (cd $src/hints; ls -C *.sh) | $sed 's/\.sh/   /g' >&4
 dflt="

 : Now look for a hint file osname_osvers, unless one has been
 : specified already.
 case "$hintfile" in
 "|' ')
  file=`echo "${osname}_${osvers}"
 | $sed -e 's%\.%_%g' -e 's%_$%%'`
  : Also try without trailing minor version numbers.
  xfile=`echo $file | $sed -e 's%_[^_]*$%%'`
  xxfile=`echo $xfile | $sed -e 's%_[^_]*$%%'`
  xxxfile=`echo $xxfile | $sed -e 's%_[^_]*$%%'`
  xxxxfile=`echo $xxxfile | $sed -e 's%_[^_]*$%%'`
  case "$file" in
  ") dflt=none ;;
  *)  case "$osvers" in
   ") dflt=$file
    ;;
   *)  if $test -f $src/hints/$file.sh ; then
     dflt=$file
    elif $test -f $src/hints/$xfile.sh ; then
     dflt=$xfile
    elif $test -f $src/hints/$xxfile.sh ; then
     dflt=$xxfile
    elif $test -f $src/hints/$xxxfile.sh ; then
     dflt=$xxxfile
    elif $test -f $src/hints/$xxxxfile.sh ; then
     dflt=$xxxxfile
    elif $test -f "$src/hints/${osname}.sh" ; then
     dflt="${osname}"
    else
     dflt=none
    fi
    ;;
```

```
  esac
  ;;
 esac
 if $test -f Policy.sh ; then
  case "$dflt" in
  *Policy*) ;;
  none) dflt="Policy" ;;
  *) dflt="Policy $dflt" ;;
  esac
 fi
 ;;
*)
 dflt=`echo
$hintfile | $sed 's/\.sh$//'`
 ;;
esac

if $test -f Policy.sh ; then
 $cat <<EOM

There's also a Policy hint file available, which should make the
site-specific (policy) questions easier to answer.
EOM

 fi

 $cat <<EOM

You may give one or more space-separated answers, or "none" if appropriate.
A well-behaved OS will have no hints, so answering "none" or just "Policy"
is a good thing.  DO NOT give a wrong version or a wrong OS.

EOM

 rp="Which of these apply, if any?"
 . UU/myread
 tans=$ans
 for file in $tans; do
  if $test X$file = XPolicy -a -f Policy.sh; then
   . Policy.sh
   $cat Policy.sh >> UU/config.sh
  elif $test -f $src/hints/$file.sh; then
   . $src/hints/$file.sh
   $cat $src/hints/$file.sh >> UU/config.sh
  elif $test X"$tans" = X -o X"$tans" = Xnone ; then
   : nothing
  else
   : Give one chance to correct a possible typo.
```

```
  echo "$file.sh does not exist"
  dflt=$file
  rp="hint to use instead?"
  . UU/myread
  for file in $ans; do
   if $test -f "$src/hints/$file.sh";
 then
    . $src/hints/$file.sh
    $cat $src/hints/$file.sh >> UU/config.sh
   elif $test X$ans = X -o X$ans = Xnone ; then
    : nothing
   else
    echo "$file.sh does not exist -- ignored."
   fi
  done
 fi
done

hint=recommended
: Remember our hint file for later.
if $test -f "$src/hints/$file.sh" ; then
 hintfile="$file"
else
 hintfile=''
fi
fi
cd UU
?X: From here on, we must use $rsrc instead of $src

@end
: Process their -A options
. ./posthint.sh

@if osname || osvers
: Ask them to confirm the OS name
cat << EOM

Configure uses the operating system name and version to set some defaults.
The default value is probably right if the name rings a bell. Otherwise,
since spelling matters for me, either accept the default or answer "none"
to leave it blank.

EOM
@end
@if osname
case "$osname" in
 ''|' ')
  case "$hintfile" in
```

```
  "|' '|none) dflt=none ;;
  *)  dflt=`echo $hintfile | $sed -e 's/\.sh$//' -e 's/_.*$//'` ;;
  esac
  ;;
 *) dflt="$osname" ;;
esac
rp="Operating
 system name?"
. ./myread
case "$ans" in
none)  osname=" ;;
*) osname=`echo "$ans" | $sed -e 's/[  ][ ]*/_/g' | ./tr '[A-Z]' '[a-z]'`;;
esac
@end
@if osvers
@if osname
echo " "
@end
case "$osvers" in
 "|' ')
  case "$hintfile" in
  "|' '|none) dflt=none ;;
  *) dflt=`echo $hintfile | $sed -e 's/\.sh$//' -e 's/^[^_]*//'`
   dflt=`echo $dflt | $sed -e 's/^_//' -e 's/_/./g'`
   case "$dflt" in
   "|' ') dflt=none ;;
   esac
   ;;
  esac
  ;;
 *) dflt="$osvers" ;;
esac
rp="Operating system version?"
. ./myread
case "$ans" in
none)  osvers=" ;;
*) osvers="$ans" ;;
esac

@end
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Oldconfig.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_strstr.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strstr.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:37  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strstr: Inlibc
?MAKE: -pick add $@ %<
?S:d_strstr:
?S: This variable conditionally defines HAS_STRSTR if strstr() is
?S: available to find substrings.
?S:.
?C:HAS_STRSTR (STRSTR):
?C: This symbol, if defined, indicates that the strstr routine is
?C: available to find substrings.
?C:.
?H:#$d_strstr HAS_STRSTR /**/
?H:.
?LINT:set d_strstr
:
 see if strstr exists
set strstr d_strstr
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strstr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endnetent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_endnetent_r endnetent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_endnetent_r:
?S: This variable conditionally defines the HAS_ENDNETENT_R symbol,
```

```
?S: which indicates to the C program that the endnetent_r()
?S: routine is available.
?S:.
?S:endnetent_r_proto:
?S: This variable encodes the prototype of endnetent_r.
?S: It is zero if d_endnetent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endnetent_r
?S: is defined.
?S:.
?C:HAS_ENDNETENT_R:
?C: This symbol, if defined, indicates that the endnetent_r routine
?C: is
 available to endnetent re-entrantly.
?C:.
?C:ENDNETENT_R_PROTO:
?C: This symbol encodes the prototype of endnetent_r.
?C: It is zero if d_endnetent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endnetent_r
?C: is defined.
?C:.
?H:#$d_endnetent_r HAS_ENDNETENT_R /**/
?H:#define ENDNETENT_R_PROTO $endnetent_r_proto /**/
?H:.
?T:try hdrs d_endnetent_r_proto
: see if endnetent_r exists
set endnetent_r d_endnetent_r
eval $inlibc
case "$d_endnetent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_endnetent_r_proto:$usethreads" in
 ":define") d_endnetent_r_proto=define
  set d_endnetent_r_proto endnetent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_endnetent_r_proto" in
 define)
 case "$endnetent_r_proto" in
 "|0) try='int endnetent_r(struct netent_data*);'
 ./protochk "$extern_C $try" $hdrs && endnetent_r_proto=I_D ;;
 esac
 case "$endnetent_r_proto" in
 "|0) try='void endnetent_r(struct netent_data*);'
 ./protochk
 "$extern_C $try" $hdrs && endnetent_r_proto=V_D ;;
 esac
 case "$endnetent_r_proto" in
```

```
"|0) d_endnetent_r=undef
 endnetent_r_proto=0
 echo "Disabling endnetent_r, cannot determine prototype." >&4 ;;
* ) case "$endnetent_r_proto" in
 REENTRANT_PROTO*) ;;
 *) endnetent_r_proto="REENTRANT_PROTO_$endnetent_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "endnetent_r has no prototype, not using it." >&4 ;;
 esac
 d_endnetent_r=undef
 endnetent_r_proto=0
 ;;
esac
;;
*) endnetent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_endnetent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: startperl.U,v 3.0 1993/08/18 12:09:50 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: startperl.U,v $
?RCS: Perl5 version -- I always have d_portable=define.
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:startperl: cat Myread sharpbang initialinstalllocation test \
 versiononly version
?MAKE: -pick add $@ %<
?Y:TOP
```

```
?X: This is different from dist's standard startperl.U unit because
?X: we can't directly test #!/usr/local/bin/perl (or
 whatever) because
?X: we haven't built and installed perl yet.
?S:startperl:
?S: This variable contains the string to put on the front of a perl
?S: script to make sure (hopefully) that it runs with perl and not some
?S: shell. Of course, that leading line must be followed by the classical
?S: perl idiom:
?S:  eval 'exec perl -S $0 ${1+"$@"}'
?S:   if $running_under_some_shell;
?S: to guarantee perl startup should the shell execute the script. Note
?S: that this magic incantation is not understood by csh.
?S:.
?C:STARTPERL:
?C: This variable contains the string to put in front of a perl
?C: script to make sure (one hopes) that it runs with perl and not
?C: some shell.
?C:.
?H:#define STARTPERL "$startperl"  /**/
?H:.
: figure out how to guarantee perl startup
: XXX Note that this currently takes advantage of the bug that binexp ignores
:     the Configure -Dinstallprefix setting, which in turn means that under
:     relocatable @INC, initialinstalllocation is what binexp started as.
case
 "$startperl" in
")
 case "$sharpbang" in
 *!)
  $cat <<EOH

I can use the #! construct to start perl on your system. This will
make startup of perl scripts faster, but may cause problems if you
want to share those scripts and perl is not in a standard place
($initialinstalllocation/perl) on all your platforms. The alternative
is to force a shell by starting the script with a single ':' character.

EOH
  case "$versionONLY" in
  "$define")      dflt="$initialinstalllocation/perl$version";;
  *)              dflt="$initialinstalllocation/perl";;
  esac
  rp='What shall I put after the #! to start up perl ("none" to not use #!)?'
  . ./myread
  case "$ans" in
  none) startperl=": # use perl";;
  *) startperl="#!$ans"
```

```
   if $test 30 -lt `echo "$ans" | wc -c`; then
    $cat >&4 <<EOM

WARNING:  Some systems limit the #! command to 32 characters.
If you experience difficulty running Perl scripts with #!, try
installing Perl in a directory with a shorter pathname.

EOM
   fi ;;
  esac
  ;;
 *)
 startperl=": # use perl"
  ;;
 esac
 ;;
esac
echo "I'll use $startperl to start perl scripts."
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/startperl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getnbyad.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getnbyaddr: Inlibc
?MAKE: -pick add $@ %<
?S:d_getnbyaddr:
?S: This variable conditionally defines the HAS_GETNETBYADDR symbol, which
?S: indicates to the C program that the getnetbyaddr() routine is available
?S: to look up networks by their IP addresses.
?S:.
?C:HAS_GETNETBYADDR:
?C: This symbol, if defined, indicates that the getnetbyaddr() routine is
?C: available to look up networks by their IP addresses.
?C:.
?H:#$d_getnbyaddr HAS_GETNETBYADDR  /**/
?H:.
?LINT:set d_getnbyaddr
: see if getnetbyaddr exists
set getnetbyaddr d_getnbyaddr
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_getnbyad.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strtok.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strtok.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:38  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The strtok routine now appears to be a standard one, but it was
?X: missing in early BSD systems.
?X:
?MAKE:d_strtok: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtok:
?S: This variable conditionally defines HAS_STRTOK if strtok() is
?S: available to scan strings for tokens.
?S:.
?C:HAS_STRTOK (STRTOK):
?C: This symbol, if defined, indicates
 that the strtok routine is
?C: available to scan strings for tokens.
?C:.
?H:#$d_strtok HAS_STRTOK /**/
?H:.
?LINT:set d_strtok
: see if strtok exists
set strtok d_strtok
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strtok.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getpagsz.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:13:10  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getpagsz pagesize: Oldconfig Myread Inlibc cat contains +cc +ccflags \
 libs rm Findhdr
?MAKE: -pick add $@ %<
?S:d_getpagsz:
?S: This variable conditionally defines HAS_GETPAGESIZE if getpagesize()
?S: is available to get the system page size.
?S:.
?S:pagesize (pagsize):
?S: This
 variable holds the size in bytes of a system page.
?S:.
?C:HAS_GETPAGESIZE (GETPAGESIZE):
?C: This symbol, if defined, indicates that the getpagesize system call
?C: is available to get system page size, which is the granularity of
?C: many memory management calls.
?C:.
?X: Don't name it PAGESIZE, this is sometimes used by <sys/param.h>
?C:PAGESIZE_VALUE (PAGSIZE):
?C: This symbol holds the size in bytes of a system page (obtained via
?C: the getpagesize() system call at configuration time or asked to the
?C: user if the system call is not available).
?C:.
?H:#$d_getpagsz HAS_GETPAGESIZE  /**/
?H:#define PAGESIZE_VALUE $pagesize /* System page size, in bytes */
?H:.
?F:!page
?T:guess
?LINT:set d_getpagsz
: see if getpagesize exists
set getpagesize d_getpagsz
eval $inlibc
```

```
@if pagesize || PAGESIZE_VALUE
: determine the system page size
echo " "
guess=' (OK to guess)'
case "$pagesize" in
")
 $cat >page.c <<EOP
extern int getpagesize();
int main()
{
 printf("%d\n", getpagesize());
}
EOP
 echo
 "Computing the granularity of memory management calls..." >&4
 dflt='4096'
 case "$d_getpagsz" in
 "$define")
  if $cc $ccflags -o page page.c $libs >/dev/null 2>&1; then
   dflt=`./page`
   guess=''
  else
   echo "(I can't seem to compile the test program--guessing)"
  fi
  ;;
 *)
  if $cc $ccflags -o page page.c $libs -lPW >/dev/null 2>&1; then
   dflt=`./page`
   guess=''
   echo "(For your eyes only: I used the getpagesize() from -lPW.)"
  else
   if $contains PAGESIZE `./findhdr sys/param.h` >/dev/null 2>&1; then
    $cat >page.c <<EOP
#include <sys/param.h>
int main()
{
 printf("%d\n", PAGESIZE);
}
EOP
    if $cc $ccflags -o page page.c $libs >/dev/null 2>&1; then
     dflt=`./page`
     guess=''
     echo "(Using value of PAGESIZE found in <sys/param.h>.)"
    fi
   fi
  fi
  ;;
 esac
```

```
 ;;
*) dflt="$pagesize"; guess=";;
esac
rp="What is the system page size, in bytes$guess?"
. ./myread
pagesize=$ans
$rm -f page.c page

@end
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getpagsz.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1997, Chip Salzenberg
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sh.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:20:13  ram
?RCS: patch61: created
?RCS:
?MAKE:sh: Head
?MAKE: -pick wipe $@ %<
?S:sh:
?S: This variable contains the full pathname of the shell used
?S: on this system to execute Bourne shell scripts.  Usually, this will be
?S: /bin/sh, though it's possible that some systems will have /bin/ksh,
?S: /bin/pdksh, /bin/ash, /bin/bash, or even something such as
?S: D:/bin/sh.exe.
?S: This unit comes before Options.U,
 so you can't set sh with a -D
?S: option, though you can override this (and startsh)
?S: with -O -Dsh=/bin/whatever -Dstartsh=whatever
?S:.
?C:SH_PATH:
?C: This symbol contains the full pathname to the shell used on this
?C: on this system to execute Bourne shell scripts.  Usually, this will be
?C: /bin/sh, though it's possible that some systems will have /bin/ksh,
?C: /bin/pdksh, /bin/ash, /bin/bash, or even something such as
```

```
?C: D:/bin/sh.exe.
?C:.
?H:#define SH_PATH "$sh"  /**/
?H:.
?T:xxx try pth p SYSTYPE
?LINT:extern maintloc maintname
?X:
?X: Be quiet unless something unusual happens because this gets
?X: loaded up even before options are processed.
?X: Can't use ./loc because that depends on startsh, which, in turn
?X: depends on this unit.
?X:
: Find the basic shell for Bourne shell scripts
case "$sh" in
")
?X: SYSTYPE is for some older MIPS systems.
?X: I do not know if it is still needed.
 case "$SYSTYPE" in
 *bsd*|sys5*) xxx="/$SYSTYPE/bin/sh";;
 *) xxx='/bin/sh';;
 esac
 if
 test -f "$xxx"; then
  sh="$xxx"
 else
  : Build up a list and do a single loop so we can 'break' out.
  pth=`echo $PATH | sed -e "s/$p_/ /g"`
  for xxx in sh bash ksh pdksh ash; do
   for p in $pth; do
    try="$try ${p}/${xxx}"
   done
  done
  for xxx in $try; do
   if test -f "$xxx"; then
    sh="$xxx"
    break
   elif test -f "$xxx$_exe"; then
    sh="$xxx"
    break
   elif test -f "$xxx.exe"; then
    sh="$xxx"
    break
   fi
  done
 fi
 ;;
esac
```

```
?X: fd 4 isn't open yet...
case "$sh" in
") cat >&2 <<EOM
$me:  Fatal Error:  I can't find a Bourne Shell anywhere.

Usually it's in /bin/sh.  How did you even get this far?
Please contact me (<$maintname>) at <$maintloc> and
we'll try to straighten this all out.
EOM
 exit 1
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/sh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fcntl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_fcntl.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_fcntl: Inlibc
?MAKE: -pick add $@ %<
?S:d_fcntl:
?S: This variable conditionally defines the HAS_FCNTL symbol, and indicates
?S: whether the fcntl() function exists
?S:.
?C:HAS_FCNTL:
?C: This symbol, if defined, indicates to the C program that
?C: the fcntl() function exists.
?C:.
?H:#$d_fcntl HAS_FCNTL  /**/
?H:.
?LINT:set d_fcntl
:
 see if this is an fcntl system
set fcntl d_fcntl
```

```
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_fcntl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_open3.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:37:12  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  13:58:26  ram
?RCS: patch56: added knowledge of the O_NONBLOCK symbol
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_open3: test +cc cat +cppflags h_fcntl h_sysfile rm Setvar Findhdr Warn
?MAKE: -pick add $@ %<
?X: It would be easy to separate the h_O_stuff from this.
?X: Is there a reason
 to do so? -- HMS
?S:d_open3:
?S: This variable conditionally defines the HAS_OPEN3 manifest constant,
?S: which indicates to the C program that the 3 argument version of
?S: the open(2) function is available.
?S:.
?C:HAS_OPEN3 (OPEN3):
?C: This manifest constant lets the C program know that the three
?C: argument form of open(2) is available.
?C:.
?H:#$d_open3 HAS_OPEN3  /**/
?H:.
?W:%<:O_RDONLY O_WRONLY O_RDWR O_NDELAY O_APPEND O_SYNC O_CREAT O_TRUNC
?W:%<:O_EXCL O_NONBLOCK
?F:!open3
?LINT:set d_open3
?LINT:change h_fcntl h_sysfile
```

```
: Locate the flags for 'open()'
echo " "
$cat >open3.c <<'EOCP'
#include <sys/types.h>
#ifdef I_FCNTL
#include <fcntl.h>
#endif
#ifdef I_SYS_FILE
#include <sys/file.h>
#endif
int main() {
 if(O_RDONLY);
#ifdef O_TRUNC
 exit(0);
#else
 exit(1);
#endif
}
EOCP
: check sys/file.h first to get FREAD on Sun
if $test `./findhdr sys/file.h` && \
  $cc $cppflags "-DI_SYS_FILE" -o open3 open3.c >/dev/null 2>&1 ; then
 h_sysfile=true;
 echo "<sys/file.h> defines the
 O_* constants..." >&4
 if ./open3; then
  echo "and you have the 3 argument form of open()." >&4
  val="$define"
 else
  echo "but not the 3 argument form of open().  Oh, well." >&4
  val="$undef"
 fi
elif $test `./findhdr fcntl.h` && \
  $cc "-DI_FCNTL" -o open3 open3.c >/dev/null 2>&1 ; then
 h_fcntl=true;
 echo "<fcntl.h> defines the O_* constants..." >&4
 if ./open3; then
  echo "and you have the 3 argument form of open()." >&4
  val="$define"
 else
  echo "but not the 3 argument form of open().  Oh, well." >&4
  val="$undef"
 fi
else
 val="$undef"
 ./warn "I can't find the O_* constant definitions!  You got problems."
fi
set d_open3
```

```
eval $setvar
$rm -f open3*
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_open3.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: ipc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: ipc.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:53  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:ipc serve_shm serve_msg serve_inet_udp serve_inet_tcp serve_unix_udp \
 serve_unix_tcp: test Myread Oldconfig d_socket d_msg d_shm d_sem
?MAKE: -pick add $@ %<
?LINT:use d_msg d_sem
?S:ipc:
?S: This variable holds the type of IPC service we'll be using.  Values
?S: include "ip", "shm", "msg", "cms" and "os9".  We don't worry about
?S: cms or os9
 here, because Configure doesn't run in those places--HMS.
?S:.
?S:serve_shm:
?S: This variable controls the definition of SERVE_SHM, which tells the
?S: C program to use USG shared memory for IPC.
?S:.
?S:serve_msg:
?S: This variable controls the definition of SERVE_MSG, which tells the
?S: C program to use USG message queues for IPC.
?S:.
?S:serve_inet_udp:
?S: This variable controls the definition of SERVE_INET_UDP, which tells
?S: the C program to enable InterNet-domain UDP support for IPC.
?S:.
?S:serve_inet_tcp:
?S: This variable controls the definition of SERVE_INET_TCP, which tells
?S: the C program to enable InterNet-domain TCP support for IPC.
?S:.
```

```
?S:serve_unix_udp:
?S: This variable controls the definition of SERVE_UNIX_UDP, which tells
?S: the C program to enable Unix-domain UDP support for IPC.
?S:.
?S:serve_unix_tcp:
?S: This variable controls the definition of SERVE_UNIX_TCP, which tells
?S: the C program to enable Unix-domain TCP support for IPC.
?S:.
?C:SERVE_SHM:
?C: If
 defined, tells the C program to use USG shared memory for IPC.
?C:.
?C:SERVE_MSG:
?C: If defined, tells the C program to use USG message queues for IPC.
?C:.
?C:SERVE_INET_UDP:
?C: If defined, tells the C program to enable InterNet-domain UDP
?C: support for IPC.
?C:.
?C:SERVE_INET_TCP:
?C: If defined, tells the C program to enable InterNet-domain TCP
?C: support for IPC.
?C:.
?C:SERVE_UNIX_UDP:
?C: If defined, tells the C program to enable Unix-domain UDP
?C: support for IPC.
?C:.
?C:SERVE_UNIX_TCP:
?C: If defined, tells the C program to enable Unix-domain TCP
?C: support for IPC.
?C:.
?H:#$serve_shm SERVE_SHM /**/
?H:#$serve_msg SERVE_MSG /**/
?H:#$serve_inet_udp SERVE_INET_UDP /**/
?H:#$serve_inet_tcp SERVE_INET_TCP /**/
?H:#$serve_unix_udp SERVE_UNIX_UDP /**/
?H:#$serve_unix_tcp SERVE_UNIX_TCP /**/
?H:.
?X: FIXME -- RAM
?INIT:serve_shm="
?INIT:serve_msg="$undef"
?INIT:serve_inet_udp="
?INIT:serve_inet_tcp="
?INIT:serve_unix_udp="
?INIT:serve_unix_tcp="
: get IPC mechanism
echo
```

```
 " "
ipc="
while $test -z "$ipc"
do
 if $test "$ipc" != "shm" -a "$d_socket" = "$define"; then
  ipc="
  if $test "$serve_inet_udp" = "$undef"; then
   dflt=n
  else
   dflt=y
  fi
  rp='Provide InterNet-domain UDP service?'
  . ./myread
  dflt="
  case "$ans" in
  n*) serve_inet_udp="$undef";;
  *)
   serve_inet_udp="$define"
   ipc='ip'
   ;;
  esac

  if $test "$serve_inet_tcp" = "$define"; then
   dflt=y
  else
   dflt=n
  fi
  rp='Provide InterNet-domain TCP service?'
  . ./myread
  dflt="
  case "$ans" in
  n*) serve_inet_tcp="$undef";;
  *)
   serve_inet_tcp="$define"
   ipc='ip'
   ;;
  esac

  if $test "$serve_unix_udp" = "$define"; then
   dflt=y
  else
   dflt=n
  fi
  rp='Provide Unix-domain UDP service?'
  . ./myread
  dflt="
  case "$ans" in
  n*) serve_unix_udp="$undef";;
```

```
  *)
   serve_unix_udp="$define"
   ipc='ip'
   ;;
  esac

  if $test "$serve_unix_tcp" = "$define"; then
   dflt=y
  else
   dflt=n
  fi
  rp='Provide Unix-domain TCP service?'
  . ./myread
  dflt=''
  case
 "$ans" in
  n*) serve_unix_tcp="$undef";;
  *)
   serve_unix_tcp="$define"
   ipc='ip'
   ;;
  esac
 else
  serve_inet_udp="$undef"
  serve_inet_tcp="$undef"
  serve_unix_udp="$undef"
  serve_unix_tcp="$undef"
 fi
 if $test "$ipc" != "ip" -a "$d_shm" = "$define"; then
  echo "Providing USG shared memory IPC support." >&4
  serve_shm="$define"
  ipc='shm'
 else
  serve_shm="$undef"
 fi
 if $test -z "$ipc"; then
  echo "You must select an IPC mechanism." >&4
 fi
done
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/ipc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
```

```
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_nl_langinfo: Inlibc i_langinfo
?MAKE: -pick add $@ %<
?S:d_nl_langinfo:
?S: This variable conditionally defines the HAS_NL_LANGINFO symbol, which
?S: indicates to the C program that the nl_langinfo() routine is available.
?S:.
?C:HAS_NL_LANGINFO:
?C: This symbol, if defined, indicates that the nl_langinfo routine is
?C: available to return local data.  You will also need <langinfo.h>
?C: and therefore I_LANGINFO.
?C:.
?H:#$d_nl_langinfo HAS_NL_LANGINFO  /**/
?H:.
?LINT:set d_nl_langinfo
?LINT:use i_langinfo
: see if nl_langinfo exists
set nl_langinfo d_nl_langinfo
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_nl_langinfo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_ptrdiff_t: Inlibc Setvar Compile rm_try cat
?MAKE: -pick add $@ %<
?S:d_ptrdiff_t:
?S: This symbol will be defined if the C compiler supports ptrdiff_t.
?S:.
?C:HAS_PTRDIFF_T:
?C: This symbol will be defined if the C compiler supports ptrdiff_t.
?C:.
?H:#$d_ptrdiff_t HAS_PTRDIFF_T  /**/
?H:.
?LINT:set d_ptrdiff_t
: check for ptrdiff_t
echo " "
```

```
echo "Checking to see if you have ptrdiff_t..." >&4
$cat >try.c <<EOCP
#include <stddef.h>
int main() { ptrdiff_t x = 7; }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have ptrdiff_t."
else
 val="$undef"
 echo "You do not have ptrdiff_t."
fi
$rm_try
set d_ptrdiff_t
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_ptrdiff_t.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Inhdr.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Inhdr.U,v $
?RCS: Revision 3.0.1.2  1995/05/12  12:01:31  ram
?RCS: patch54: deleted tabs that caused some /bin/sh to core dump (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:55:01  ram
?RCS: patch36: call ./whoa explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit checks wether a set of header files exists or not.
?X: If the first header is not
 found, the function tries to locate
?X: the next header, and so on, until one is found or there is no
?X: more header in the list.
```

```
?X:
?X: To use it, say:
?X: set header i_header [ header2 i_header2 ... ]
?X: eval $inhdr
?X:
?MAKE:Inhdr: test Findhdr Whoa
?MAKE: -pick add $@ %<
?LINT:define inhdr
?V:inhdr
?S:inhdr:
?S: This shell variable is used internally by Configure to check
?S: wether a set of headers exist or not. A typical use is:
?S:  set header i_header [ header2 i_header2 ... ]
?S:  eval $inhdr
?S: That will print a message, saying wether header was found or not
?S: and set i_header* accordingly. If the first header is not found,
?S: we try the next one, until the list is empty or one is found.
?S:.
?T:xxx xxf var td xxnf tu yyy instead was cont
: define an alternate in-header-list? function
inhdr='echo " "; td=$define; tu=$undef; yyy=$@;
cont=true; xxf="echo \"<\$1> found.\" >&4";
case $# in 2) xxnf="echo \"<\$1> NOT found.\" >&4";;
*) xxnf="echo \"<\$1> NOT found, ...\" >&4";;
esac;
case
 $# in 4) instead=instead;; *) instead="at last";; esac;
while $test "$cont"; do
 xxx=`./findhdr $1`
 var=$2; eval "was=\$$2";
 if $test "$xxx" && $test -r "$xxx";
 then eval $xxf;
?X: Next line shifted left 1 tabstop to avoid sh core dump on MachTen 2.1.1.
 eval "case \"\$$var\" in $undef) . ./whoa; esac"; eval "$var=\$td";
  cont="";
 else eval $xxnf;
?X: Likewise, the next line has been shifted left 1 tabstop -- ADO, 08/03/95
 eval "case \"\$$var\" in $define) . ./whoa; esac"; eval "$var=\$tu"; fi;
 set $yyy; shift; shift; yyy=$@;
 case $# in 0) cont="";;
 2) xxf="echo \"but I found <\$1> $instead.\" >&4";
  xxnf="echo \"and I did not find <\$1> either.\" >&4";;
 *) xxf="echo \"but I found <\$1\> instead.\" >&4";
  xxnf="echo \"there is no <\$1>, ...\" >&4";;
 esac;
done;
?X: Remaining values are set to 'undef'
while $test "$yyy";
```

```
do set $yyy; var=$2; eval "was=\$$2";
 eval "case \"\$$var\" in $define) . ./whoa; esac"; eval "$var=\$tu";
 set $yyy; shift; shift; yyy=$@;
done'
```

Found
 in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Inhdr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_rdchk.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_rdchk.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_rdchk: Inlibc
?MAKE: -pick add $@ %<
?S:d_rdchk:
?S: This variable conditionally defines the HAS_RDCHK symbol, which
?S: indicates to the C program that the rdchk() routine is available
?S: to find out if there is input pending on an IO channel.
?S:.
?C:HAS_RDCHK (RDCHK):
?C: This symbol, if defined, indicates that the rdchk routine
 is available
?C: to find out if there is input pending on an IO channel.  Generally
?C: the routine is used only if FIONREAD and O_NDELAY aren't available.
?C:.
?H:#$d_rdchk HAS_RDCHK  /**/
?H:.
?LINT:set d_rdchk
: see if rdchk exists
set rdchk d_rdchk
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_rdchk.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Nothing.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Nothing.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this file is to supply an empty target for the private
?X: Makefile built by metaconfig to order the units.
?X:
?MAKE:Nothing: Head
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Nothing.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_shmat.U,v 3.0.1.3 1995/07/25 14:04:23 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_shmat.U,v $
?RCS: Revision 3.0.1.3  1995/07/25  14:04:23  ram
?RCS: patch56: use findhdr to find <sys/shm.h>, to get the right one (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:18:56  ram
?RCS: patch27: added new symbol HAS_SHMAT_PROTOTYPE (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:54:18  ram
?RCS: patch23: new Shmat_t symbol to declare return type of shmat()
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:18  ram
```

```
?RCS: Baseline for dist 3.0 netwide
 release.
?RCS:
?MAKE:d_shmat shmattype d_shmatprototype: Inlibc cat +cc +ccflags \
 rm cppstdin cppflags cppminus Findhdr Setvar contains
?MAKE: -pick add $@ %<
?S:d_shmat:
?S: This variable conditionally defines the HAS_SHMAT symbol, which
?S: indicates to the C program that the shmat() routine is available.
?S:.
?S:shmattype:
?S: This symbol contains the type of pointer returned by shmat().
?S: It can be 'void *' or 'char *'.
?S:.
?S:d_shmatprototype:
?S: This variable conditionally defines the HAS_SHMAT_PROTOTYPE
?S: symbol, which indicates that sys/shm.h has a prototype for
?S: shmat.
?S:.
?C:HAS_SHMAT:
?C: This symbol, if defined, indicates that the shmat() routine is
?C: available to attach a shared memory segment to the process space.
?C:.
?C:Shmat_t:
?C: This symbol holds the return type of the shmat() system call.
?C: Usually set to 'void *' or 'char *'.
?C:.
?C:HAS_SHMAT_PROTOTYPE:
?C: This symbol, if defined, indicates that the sys/shm.h includes
?C: a prototype for shmat().
  Otherwise, it is up to the program to
?C: guess one.  Shmat_t shmat(int, Shmat_t, int) is a good guess,
?C: but not always right so it should be emitted by the program only
?C: when HAS_SHMAT_PROTOTYPE is not defined to avoid conflicting defs.
?C:.
?H:#$d_shmat HAS_SHMAT  /**/
?H:#define Shmat_t $shmattype /**/
?H:#$d_shmatprototype HAS_SHMAT_PROTOTYPE /**/
?H:.
?LINT:set d_shmat d_shmatprototype
?T:xxx
: see if shmat exists
set shmat d_shmat
eval $inlibc
: see what shmat returns
case "$d_shmat" in
"$define")
 $cat >shmat.c <<'END'
```

```
#include <sys/shm.h>
void *shmat();
END
 if $cc $ccflags -c shmat.c >/dev/null 2>&1; then
  shmattype='void *'
 else
  shmattype='char *'
 fi
 echo "and it returns ($shmattype)." >&4
 : see if a prototype for shmat is available
 xxx=`./findhdr sys/shm.h`
 $cppstdin $cppflags $cppminus < $xxx > shmat.c 2>/dev/null
 if $contains 'shmat.*(' shmat.c >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 $rm -f shmat.[co]
 ;;
*)
 val="$undef"
 ;;
esac
set
 d_shmatprototype
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_shmat.U
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```
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_pthread_attr_setscope: Inlibc
?MAKE: -pick add $@ %<
?S:d_pthread_attr_setscope:
?S: This variable conditionally defines HAS_PTHREAD_ATTR_SETSCOPE if
?S: pthread_attr_setscope() is available to set the contention scope
?S: attribute of a thread attribute object.
```

```
?S:.
?C:HAS_PTHREAD_ATTR_SETSCOPE:
?C: This symbol, if defined, indicates that the pthread_attr_setscope
?C: system call is available to set the contention scope attribute of
?C: a thread attribute object.
?C:.
?H:#$d_pthread_attr_setscope HAS_PTHREAD_ATTR_SETSCOPE  /**/
?H:.
?LINT:set
 d_pthread_attr_setscope
: see if pthread_attr_setscope exists
set pthread_attr_setscope d_pthread_attr_setscope
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_pthread_attr_ss.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: modetype.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:25:07  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:modetype: Myread Typedef
?MAKE: -pick add $@ %<
?S:modetype:
?S: This variable defines modetype to be something like mode_t,
?S: int, unsigned short, or whatever type is used to declare file
?S: modes for system calls.
?S:.
?C:Mode_t:
?C: This symbol holds the type used to declare file modes
?C: for systems calls.
  It is usually mode_t, but may be
?C: int or unsigned short.  It may be necessary to include <sys/types.h>
?C: to get any typedef'ed information.
```

```
?C:.
?H:#define Mode_t $modetype  /* file mode parameter for system calls */
?H:.
: see what type is used for mode_t
set mode_t modetype int stdio.h sys/types.h
eval $typedef
dflt="$modetype"
echo " "
rp="What type is used for file modes?"
. ./myread
modetype="$ans"
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/modetype.U
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```
?RCS: $Id: d_getservbyport_r.U,v 0RCS:
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?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getservbyport_r getservbyport_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getservbyport_r:
?S: This variable conditionally defines the HAS_GETSERVBYPORT_R symbol,
?S: which indicates to the C program that the getservbyport_r()
?S: routine is available.
?S:.
?S:getservbyport_r_proto:
?S: This variable encodes the prototype of getservbyport_r.
?S: It is zero if d_getservbyport_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getservbyport_r
?S: is defined.
?S:.
?C:HAS_GETSERVBYPORT_R:
?C: This symbol, if defined, indicates
 that the getservbyport_r routine
?C: is available to getservbyport re-entrantly.
?C:.
?C:GETSERVBYPORT_R_PROTO:
?C: This symbol encodes the prototype of getservbyport_r.
?C: It is zero if d_getservbyport_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getservbyport_r
```

```
?C: is defined.
?C:.
?H:#$d_getservbyport_r HAS_GETSERVBYPORT_R /**/
?H:#define GETSERVBYPORT_R_PROTO $getservbyport_r_proto /**/
?H:.
?T:try hdrs d_getservbyport_r_proto
: see if getservbyport_r exists
set getservbyport_r d_getservbyport_r
eval $inlibc
case "$d_getservbyport_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getservbyport_r_proto:$usethreads" in
 ":define") d_getservbyport_r_proto=define
  set d_getservbyport_r_proto getservbyport_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getservbyport_r_proto" in
 define)
 case "$getservbyport_r_proto" in
 "|0) try='int getservbyport_r(int, const char*, struct servent*, char*, size_t,
 struct servent**);'
 ./protochk "$extern_C $try" $hdrs && getservbyport_r_proto=I_ICSBWR ;;
 esac
 case "$getservbyport_r_proto" in
 "|0) try='struct servent* getservbyport_r(int, const char*, struct servent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getservbyport_r_proto=S_ICSBI ;;
 esac
 case "$getservbyport_r_proto" in
 "|0) try='int getservbyport_r(int, const char*, struct servent*, struct servent_data*);'
 ./protochk "$extern_C $try" $hdrs && getservbyport_r_proto=I_ICSD ;;
 esac
 case "$getservbyport_r_proto" in
 "|0) d_getservbyport_r=undef
  getservbyport_r_proto=0
  echo "Disabling getservbyport_r, cannot determine prototype." >&4 ;;
 * ) case "$getservbyport_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getservbyport_r_proto="REENTRANT_PROTO_$getservbyport_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getservbyport_r has no prototype, not using it." >&4 ;;
  esac
  d_getservbyport_r=undef
```

```
  getservbyport_r_proto=0
  ;;
 esac
 ;;
*) getservbyport_r_proto=0
 ;;
esac
```

Found
 in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getservbyport_r.U
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```
?RCS: $Id: etc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: etc.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:etc etcexp: Getfile Loc Oldconfig
?MAKE: -pick add $@ %<
?S:etc:
?S: This variable holds the name of the directory in which the user wants
?S: to put "administrative" executable images for the package in question.
?S: It is most often a local directory such as /usr/local/etc. Programs
?S: relying on this variable must be prepared to deal with
 ~name
?S: substitutions.
?S:.
?S:etcexp:
?S: This is the same as the etc variable, but is filename expanded at
?S: configuration time, for convenient use in makefiles.
?S:.
: determine where administrative executables go
case "$etc" in
")
 dflt=`./loc . /local/etc /usr/local/etc /local/etc /usr/etc /etc`
 ;;
*)
```

```
 dflt="$etc"
 ;;
esac
fn=d~
rp='Where should the administrative executables go?'
. ./getfile
etc="$ans"
etcexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/etc.U
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```
?RCS: $Id$
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Finish.U,v $
?RCS: Revision 3.0.1.6  1995/02/15  14:09:30  ram
?RCS: patch51: now clearer about how to edit config.sh at the prompt (WED)
?RCS:
?RCS: Revision 3.0.1.5  1994/10/29  15:53:14  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.4  1994/05/06  14:19:37  ram
?RCS: patch23: added blank lines around 'End of Configure'
?RCS:
?RCS: Revision 3.0.1.3  1993/10/16  13:46:09  ram
?RCS: patch12: replaced Config_h by Magic_h in the dependency line
?RCS:
?RCS:
 Revision 3.0.1.2  1993/09/13  15:45:26  ram
?RCS: patch10: fixed shell evaluation w/o shell escape while in silent mode
?RCS:
?RCS: Revision 3.0.1.1  1993/08/30  08:55:59  ram
?RCS: patch8: prevents myread from blocking on empty answers, exceptionally
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
```

```
?X: This unit is the very last one in the Configure script.  It runs all the
?X: SH files, which among other things produce config.h and (usually) Makefile.
?X: It offers to do a make depend if the Makefile contains that target.
?X:
?MAKE:Finish: Chk_MANI Extract Myread Oldsym Magic_h cat rm contains \
 test package make
?MAKE: -pick add $@ %<
?F:!config.sh
?T:pwd
: Finish up by extracting the .SH files
case "$alldone" in
exit)
?X: They supplied the -E switch
 echo "Stopping at your request, leaving temporary files around."
 exit 0
 ;;
cont)
 ;;
")
 dflt=''
 nostick=true
 $cat <<EOM

If you'd like to make any changes to the config.sh
 file before I begin
to configure things, do it as a shell escape now (e.g. !vi config.sh).

EOM
 rp="Press return or use a shell escape to edit config.sh:"
 . UU/myread
 nostick=''
 case "$ans" in
 '') ;;
 *) : in case they cannot read
  sh 1>&4 -c "$ans";;
 esac
 ;;
esac

: if this fails, just run all the .SH files by hand
. ./config.sh

?X:
?X: Turn silent mode off from now on (we want a verbose file extraction).
?X: This means we have to explicitly test for '$silent' from now on to
?X: strip off any verbose messages.
?X:
echo " "
```

```
exec 1>&4
pwd=`pwd`
. ./UU/extract
cd "$pwd"

if $contains '^depend:' [Mm]akefile >/dev/null 2>&1; then
 dflt=y
 case "$silent" in
 true) ;;
 *)
  $cat <<EOM

Now you need to generate make dependencies by running "$make depend".
You might prefer to run it in background: "$make depend > makedepend.out &"
It can take a while, so you might not want to run it right now.

EOM
  ;;
 esac
 rp="Run $make depend now?"
 . UU/myread
 case "$ans" in
 y*)
  $make depend
 && echo "Now you must run '$make'."
  ;;
 *)
  echo "You must run '$make depend' then '$make'."
  ;;
 esac
elif test -f [Mm]akefile; then
 echo " "
 echo "Now you must run a $make."
else
 echo "Configure done."
fi

if $test -f Policy.sh; then
   $cat <<EOM

If you compile $package on a different machine or from a different object
directory, copy the Policy.sh file from this object directory to the
new one before you run Configure -- this will help you with most of
the policy defaults.

EOM
fi
if $test -f UU/config.msg; then
```

```
  echo "Hmm.  I also noted the following information while running:"
  echo " "
  $cat UU/config.msg >&4
fi
?X:
?X: kit*isdone files are left over by shell archives built using the makedist
?X: script which comes from dist, while ark*isdone files are left over by
?X: the cshar archive maker.
?X:
$rm -f kit*isdone ark*isdone
$rm -rf UU

: End of Configure
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Finish.U
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```
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:fpossize: Myread Typedef fpostype Compile longsize run i_stdlib
?MAKE: -pick add $@ %<
?S:fpossize:
?S: This variable contains the size of a fpostype in bytes.
?S:.
?C:Fpos_t_size:
?C: This symbol holds the size of a Fpos_t in bytes.
?C:.
?H:#define Fpos_t_size $fpossize  /* FPOS size */
?H:.
?T:yyy zzz
?F:!try
: Check size for Fpos_t
echo " "
case "$fpostype" in
*_t) zzz="$fpostype" ;;
*)   zzz="fpos_t" ;;
esac
echo "Checking the size of $zzz..." >&4
cat > try.c <<EOCP
```

```
#include <sys/types.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef
 I_STDLIB
#include <stdlib.h>
#endif
int main() {
   printf("%d\n", (int)sizeof($fpostype));
   exit(0);
}
EOCP
set try
if eval $compile_ok; then
 yyy=`$run ./try`
 case "$yyy" in
 ") fpossize=4
  echo "(I can't execute the test program--guessing $fpossize.)" >&4
  ;;
 *) fpossize=$yyy
  echo "Your $zzz is $fpossize bytes long."
  ;;
 esac
else
 dflt="$longsize"
 echo " " >&4
 echo "(I can't compile the test program.  Guessing...)" >&4
 rp="What is the size of your file positions (in bytes)?"
 . ./myread
 fpossize="$ans"
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/fpossize.U
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```
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?RCS:
?MAKE:d_qgcvt: Inlibc
?MAKE: -pick add $@ %<
?S:d_qgcvt:
?S: This variable conditionally defines the HAS_QGCVT symbol, which
```

```
?S: indicates to the C program that the qgcvt() routine is available.
?S:.
?C:HAS_QGCVT:
?C: This symbol, if defined, indicates that the qgcvt routine is
?C: available to convert long doubles ("quad doubles") to strings.
?C: This is a low-level routine hopefully faster than sprintf.
?C:.
?H:#$d_qgcvt HAS_QGCVT  /**/
?H:.
?LINT:set d_qgcvt
: see if qgcvt exists
set qgcvt d_qgcvt
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_qgcvt.U
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```
?RCS: $Id: Tr.U,v 3.0.1.2 1994/10/29 18:00:54 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Tr.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  18:00:54  ram
?RCS: patch43: forgot to quote $@ to protect against "evil" characters
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:58:35  ram
?RCS: patch36: created
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to do a character translation. It catches translations to uppercase or
?X: to lowercase, and then invokes the real tr to perform the job.
?X:
?X: This unit is necessary
 on HP machines (HP strikes again!) with non-ascii
?X: ROMAN8-charset, where normal letters are not arranged in a row, so a-z
?X: covers not the whole alphabet but lots of special chars. This was reported
?X: by Andreas Sahlbach <a.sahlbach@tu-bs.de>.
?X:
?X: Units performing a tr '[A-Z]' '[a-z]' or the other way round should include
```

```
?X: us in their dependency and use ./tr instead.
?X:
?MAKE:Tr: startsh tr eunicefix
?MAKE: -pick add $@ %<
?F:./tr
?T:up low
: see whether [:lower:] and [:upper:] are supported character classes
echo " "
case "`echo AbyZ | $tr '[:lower:]' '[:upper:]' 2>/dev/null`"-"`echo AbyZ | $tr '[:upper:]' '[:lower:]' 2>/dev/null`" in
ABYZ-abyz)
 echo "Good, your tr supports [:lower:] and [:upper:] to convert case." >&4
 up='[:upper:]'
 low='[:lower:]'
 ;;
*) # There is a discontinuity in EBCDIC between 'R' and 'S'
 # (0xd9 and 0xe2), therefore that is a nice testing point.
 if test "X$up" = X -o "X$low" = X; then
    case "`echo RS | $tr '[R-S]' '[r-s]' 2>/dev/null`"
 in
    rs) up='[A-Z]'
  low='[a-z]'
  ;;
    esac
 fi
 if test "X$up" = X -o "X$low" = X; then
    case "`echo RS | $tr R-S r-s 2>/dev/null`" in
    rs) up='A-Z'
  low='a-z'
  ;;
    esac
 fi
 if test "X$up" = X -o "X$low" = X; then
    case "`echo RS | od -x 2>/dev/null`" in
    *D9E2*|*d9e2*)
  echo "Hey, this might be EBCDIC." >&4
  if test "X$up" = X -o "X$low" = X; then
     case "`echo RS | $tr '[A-IJ-RS-Z]' '[a-ij-rs-z]' 2>/dev/null`" in
     rs) up='[A-IJ-RS-Z]'
   low='[a-ij-rs-z]'
   ;;
     esac
  fi
  if test "X$up" = X -o "X$low" = X; then
     case "`echo RS | $tr A-IJ-RS-Z a-ij-rs-z 2>/dev/null`" in
     rs) up='A-IJ-RS-Z'
   low='a-ij-rs-z'
   ;;
     esac
```

```
  fi
  ;;
     esac
 fi
esac
case "`echo RS | $tr \"$up\" \"$low\" 2>/dev/null`" in
rs)
   echo "Using $up and $low to convert case." >&4
   ;;
*)
   echo "I don't know how to translate letters from upper to lower case." >&4
   echo "Your tr is not acting any way I know of." >&4
   exit 1
   ;;
esac
:
 set up the translation script tr, must be called with ./tr of course
cat >tr <<EOSC
$startsh
case "\$1\$2" in
'[A-Z][a-z]') exec $tr '$up' '$low';;
'[a-z][A-Z]') exec $tr '$low' '$up';;
esac
exec $tr "\$@"
EOSC
chmod +x tr
$eunicefix tr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Tr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_fd_set.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:33:16  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20  06:57:23  ram
```

```
?RCS: patch30: extended scope for fd_set checks (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:06:27  ram
?RCS: patch16: comments for HAS_FD_* symbols were not consistent
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_fd_set d_fd_macros d_fds_bits: cat +cc +ccflags rm Oldconfig
 \
 d_socket i_systime i_sysselct i_syssock
?MAKE: -pick add $@ %<
?S:d_fd_set:
?S: This variable contains the eventual value of the HAS_FD_SET symbol,
?S: which indicates if your C compiler knows about the fd_set typedef.
?S:.
?S:d_fd_macros:
?S: This variable contains the eventual value of the HAS_FD_MACROS symbol,
?S: which indicates if your C compiler knows about the macros which
?S: manipulate an fd_set.
?S:.
?S:d_fds_bits:
?S: This variable contains the eventual value of the HAS_FDS_BITS symbol,
?S: which indicates if your fd_set typedef contains the fds_bits member.
?S: If you have an fd_set typedef, but the dweebs who installed it did
?S: a half-fast job and neglected to provide the macros to manipulate
?S: an fd_set, HAS_FDS_BITS will let us know how to fix the gaffe.
?S:.
?C:HAS_FD_SET:
?C: This symbol, when defined, indicates presence of the fd_set typedef
?C: in <sys/types.h>
?C:.
?C:HAS_FD_MACROS:
?C: This symbol, when defined,  indicates presence of the macros used
 to
?C: manipulate an fd_set.
?C:.
?C:HAS_FDS_BITS:
?C: This symbol, when defined, indicates presence of the fds_bits member in
?C: fd_set.  This knowledge is useful if fd_set is available but the macros
?C: aren't.
?C:.
?H:#$d_fd_set HAS_FD_SET /**/
?H:#$d_fd_macros HAS_FD_MACROS /**/
?H:#$d_fds_bits HAS_FDS_BITS /**/
?H:.
?F:!fd_set
: check for fd_set items
```

```
$cat <<EOM

Checking to see how well your C compiler handles fd_set and friends ...
EOM
?X: The FD_SET macros can be in strange places.  On some SysV-based
?X: systems, they are in <sys/bsdtypes.h>, which is included (perhaps)
?X: by <sys/socket.h>.  We won't force people to include
?X: <sys/bsdtypes.h> because it might introduce other
?X: incompatibilities.
$cat >fd_set.c <<EOCP
#$i_systime I_SYS_TIME
#$i_sysselct I_SYS_SELECT
#$d_socket HAS_SOCKET
#$i_syssock I_SYS_SOCKET
#include <sys/types.h>
#ifdef HAS_SOCKET
#ifdef I_SYS_SOCKET
#include <sys/socket.h> /* Might include <sys/bsdtypes.h> */
#endif
#endif
#ifdef I_SYS_TIME
#include
 <sys/time.h>
#endif
#ifdef I_SYS_SELECT
#include <sys/select.h>
#endif
int main() {
 fd_set fds;

#ifdef TRYBITS
 if(fds.fds_bits);
#endif

#if defined(FD_SET) && defined(FD_CLR) && defined(FD_ISSET) && defined(FD_ZERO)
 exit(0);
#else
 exit(1);
#endif
}
EOCP
if $cc $ccflags -DTRYBITS -o fd_set fd_set.c >fd_set.out 2>&1 ; then
 d_fds_bits="$define"
 d_fd_set="$define"
 echo "Well, your system knows about the normal fd_set typedef..." >&4
 if ./fd_set; then
  echo "and you have the normal fd_set macros (just as I'd expect)." >&4
  d_fd_macros="$define"
```

```
 else
  $cat >&4 <<'EOM'
but not the normal fd_set macros!  Gaaack!  I'll have to cover for you.
EOM
  d_fd_macros="$undef"
 fi
else
 $cat <<'EOM'
Hmm, your compiler has some difficulty with fd_set.  Checking further...
EOM
 if $cc $ccflags -o fd_set fd_set.c >fd_set.out 2>&1 ; then
  d_fds_bits="$undef"
  d_fd_set="$define"
  echo "Well, your system has some sort of fd_set available..." >&4
  if ./fd_set; then
   echo "and you have the
 normal fd_set macros." >&4
   d_fd_macros="$define"
  else
   $cat <<'EOM'
but not the normal fd_set macros!  Gross!  More work for me...
EOM
   d_fd_macros="$undef"
  fi
 else
 echo "Well, you got zip.  That's OK, I can roll my own fd_set stuff." >&4
  d_fd_set="$undef"
  d_fds_bits="$undef"
  d_fd_macros="$undef"
 fi
fi
$rm -f fd_set*
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_fd_set.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_umask.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_umask.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:14:50  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_umask: Inlibc
?MAKE: -pick add $@ %<
?S:d_umask:
?S: This variable conditionally defines the HAS_UMASK symbol, which
?S: indicates to the C program that the umask() routine is available.
?S: to set and get the value of the file creation mask.
?S:.
?C:HAS_UMASK :
?C: This
 symbol, if defined, indicates that the umask routine is
?C: available to set and get the value of the file creation mask.
?C:.
?H:#$d_umask HAS_UMASK  /**/
?H:.
?LINT:set d_umask
: see if umask exists
set umask d_umask
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_umask.U
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```
?RCS: $Id: d_endpwent.U,v $
?RCS:
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?RCS:
?RCS: $Log: d_endpwent.U,v $
?RCS:
?MAKE:d_endpwent: Inlibc
?MAKE: -pick add $@ %<
?S:d_endpwent:
?S: This variable conditionally defines the HAS_ENDPWENT symbol, which
?S: indicates to the C program that the endpwent() routine is available
?S: for sequential access of the passwd database.
?S:.
?C:HAS_ENDPWENT:
?C: This symbol, if defined, indicates that the getgrent routine is
```

```
?C: available for finalizing sequential access of the passwd database.
?C:.
?H:#$d_endpwent HAS_ENDPWENT  /**/
?H:.
?LINT:set d_endpwent
: see if endpwent exists
set endpwent d_endpwent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_endpwent.U
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```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strlcat: Inlibc Hasproto d_gnulibc
?MAKE: -pick add $@ %<
?S:d_strlcat:
?S: This variable conditionally defines the HAS_STRLCAT symbol, which
?S: indicates to the C program that the strlcat () routine is available.
?S:.
?C:HAS_STRLCAT:
?C: This symbol, if defined, indicates that the strlcat () routine is
?C: available to do string concatenation.
?C:.
?H:#$d_strlcat HAS_STRLCAT  /**/
?H:.
?T:d_strlcat_proto xx1 xx2 xx3 xx4
?LINT:set d_strlcat
: see if strlcat exists
: We need both a prototype in string.h and the symbol in libc.
echo " "
d_strlcat_proto="
xx1="#$d_gnulibc HAS_GNULIBC"
xx2='#if defined(HAS_GNULIBC) && !defined(_GNU_SOURCE)'
xx3='#   define _GNU_SOURCE'
xx4='#endif'
set d_strlcat_proto
 strlcat literal "$xx1" literal "$xx2" literal "$xx3" literal "$xx4" define string.h
eval $hasproto
case "$d_strlcat_proto" in
   define) # see if strlcat exists
```

```
 set strlcat d_strlcat
 eval $inlibc
 ;;
   *)  val=$undef
 set d_strlcat
 eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strlcat.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_csh.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:32:18  ram
?RCS: patch61: added full_csh to preserve the full path even when portable
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:53  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_csh full_csh: csh Setvar
?MAKE: -pick add $@ %<
?S:d_csh:
?S: This variable conditionally defines the CSH symbol, which
?S: indicates to the C program that the C-shell exists.
?S:.
?S:full_csh:
?S: This variable contains the full pathname to 'csh', whether
 or
?S: not the user has specified 'portability'.  This is only used
?S: in the compiled C program, and we assume that all systems which
?S: can share this executable will have the same full pathname to
?S: 'csh.'
?S:.
?X: Yes, I know about the C symbol PORTABLE, but I think csh
?X: is unlikely to move, and I'm too lazy to add all the
?X: #ifdef PORTABLE sections to the perl source.
```

```
?X:
?C:HAS_CSH:
?C: This symbol, if defined, indicates that the C-shell exists.
?C:.
?C:CSH:
?C: This symbol, if defined, contains the full pathname of csh.
?C:.
?X: Previously, I just did $d_csh CSH "$full_csh", but that caused
?X: problems on VMS where the config.sh extraction program changes
?X: $undef to a real cpp undef, and they then had  #undef CSH ""
?X: which the compiler didn't like.  It's easy to work around this,
?X: so I did.  --AD  3/1998.
?X: And we don't want to define CSH if !HAS_CSH, but we don't want
?X: those lines in config.h if they don't need CSH, so protect with ?CSH
?X: and not
 ?%<. --RAM, 15/02/2004
?H:?%<:#$d_csh HAS_CSH  /**/
?H:?CSH:#ifdef HAS_CSH
?H:?CSH:#define CSH "$full_csh" /**/
?H:?CSH:#endif
?H:.
?LINT:set d_csh
: get csh whereabouts
case "$csh" in
'csh') val="$undef" ;;
*) val="$define" ;;
esac
set d_csh
eval $setvar
: Respect a hint or command line value for full_csh.
case "$full_csh" in
'') full_csh=$csh ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_csh.U
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```
?RCS: $Id$
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
?MAKE:sitehtml1dir sitehtml1direxp installsitehtml1dir: Getfile \
 Setprefixvar prefix siteprefix html1dir sed
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitehtml1dir=''
?S:sitehtml1dir:
?S: This variable contains the name of the directory in which site-specific
?S: html source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S: The standard distribution will put nothing in this directory.
?S: After perl
 has been installed, users may install their own local
?S: html pages in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitehtml1direxp=''
?S:sitehtml1direxp:
?S: This variable is the same as the sitehtml1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsitehtml1dir=''
?S:installsitehtml1dir:
?S: This variable is really the same as sitehtml1direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: html1direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installsitehtml1dir
?LINT:set sitehtml1dir
?LINT:set sitehtml1direxp
: determine where add-on html pages go
: There is no standard location, so try to copy the previously-selected
: directory structure for the core html pages.
case "$sitehtml1dir" in
'')
   dflt=`echo "$html1dir" | $sed "s#^$prefix#$siteprefix#"` ;;
*)     dflt=$sitehtml1dir ;;
esac
case "$dflt" in
'|' ') dflt=none ;;
esac
fn=dn+~
rp='Pathname where the site-specific html pages should be installed?'
. ./getfile
```

```
prefixvar=sitehtml1dir
. ./setprefixvar

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/sitehtml1dir.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_uwait.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_uwait.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:10:49  ram
?RCS: patch16: added knowledge about wait3()
?RCS: patch16: revised 'union wait' look-up algorithm
?RCS: patch16: fixed make dependency line accordingly
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_uwait d_uwait3: cat contains cppstdin cppminus +cppflags rm \
 Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_uwait:
?S: This symbol
 conditionally defines UNION_WAIT which indicates to the C
?S: program that argument for the wait() system call should be declared as
?S: 'union wait status' instead of 'int status'.
?S:.
?S:d_uwait3:
?S: This symbol conditionally defines UNION_WAIT3 which indicates to the C
?S: program that the first argument for the wait3() system call should be
?S: declared as 'union wait status' instead of 'int status'.
?S:.
?C:UNION_WAIT:
?C: This symbol if defined indicates to the C program that the argument
?C: for the wait() system call should be declared as 'union wait status'
?C: instead of 'int status'. You probably need to include <sys/wait.h>
?C: in the former case (see I_SYSWAIT).
?C:.
?C:UNION_WAIT3:
```

```
?C: This symbol if defined indicates to the C program that the first argument
?C: for the wait3() system call should be declared as 'union wait status'
?C: instead of 'int status'. You probably need to include <sys/wait.h>
?C: in the former case (see I_SYSWAIT). It seems safe to assume that
 the
?C: same rule applies to the second parameter of wait4().
?C:.
?H:#$d_uwait UNION_WAIT  /**/
?H:#$d_uwait3 UNION_WAIT3 /**/
?H:.
?T:val2 flags f also
?LINT:set d_uwait d_uwait3
: see if union wait is available
echo " "
?X:
?X: Unfortunately, we can't just grep <sys/wait.h> for "union wait" because
?X: some weird systems (did I hear HP-UX?) define union wait only when _BSD
?X: is defined. The same thing happens on OSF/1, who is pushing weirdness to
?X: its limits by requiring wait() to use (int *) but wait3() to use
?X: (union wait *), unless _BSD is defined and -lbsd is used, in which case
?X: wait() also expects (union wait *). Aaargh!!--RAM
?X:
set X $cppflags
shift
flags=''
also=''
for f in $*; do
 case "$f" in
 *NO_PROTO*) ;;
 *) flags="$flags $f";;
 esac
done
$cat `./findhdr sys/wait.h` /dev/null | \
 $cppstdin $flags $cppminus >wait.out 2>/dev/null
if $contains 'union.*wait.*{' wait.out >/dev/null 2>&1 ; then
 echo "Looks like your <sys/wait.h> knows about 'union wait'..."
 >&4
 val="$define"
@if UNION_WAIT
 also='also '
 if $contains 'extern.*wait[  ]*([  ]*int' wait.out >/dev/null 2>&1
 then
  echo "But wait() seems to expect an 'int' pointer (POSIX way)." >&4
  val="$undef"
  also=''
 elif $contains 'extern.*wait[  ]*([  ]*union' wait.out >/dev/null 2>&1
 then
  echo "And indeed wait() expects an 'union wait' pointer (BSD way)." >&4
```

```
 else
  echo "So we'll use that for wait()." >&4
 fi
@end
@if UNION_WAIT3 || d_uwait3
 val2="$define"
@end
@if UNION_WAIT3
 if $contains 'extern.*wait3[  ]*([  ]*int' wait.out >/dev/null 2>&1
 then
  echo "However wait3() seems to expect an 'int' pointer, weird." >&4
  val2="$undef"
 elif $contains 'extern.*wait3[  ]*([  ]*union' wait.out >/dev/null 2>&1
 then
  echo "And wait3() ${also}expects an 'union wait' pointer, fine." >&4
 else
  echo "As expected, wait3() ${also}uses an 'union wait' pointer." >&4
 fi
@end
else
 echo "No trace of 'union wait' in <sys/wait.h>..." >&4
 val="$undef"
@if UNION_WAIT && UNION_WAIT3
 echo
 "Both wait() and wait3() will use a plain 'int' pointer then." >&4
@elsif UNION_WAIT
 echo "Your wait() should be happy with a plain 'int' pointer." >&4
@elsif UNION_WAIT3
 echo "Your wait3() should be happy with a plain 'int' pointer." >&4
@end
fi
set d_uwait
eval $setvar
@if UNION_WAIT3 || d_uwait3
val="$val2"; set d_uwait3
eval $setvar
@end
$rm -f wait.out
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_uwait.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_bfd.U,v $
?RCS:
?RCS: Copyright (c) 2014 H.Merijn Brand
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_bfd: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_bfd:
?S: This variable conditionally defines the I_BFD symbol, and
?S: indicates whether a C program can include <bfd.h>.
?S:.
?C:I_BFD:
?C: This symbol, if defined, indicates that <bfd.h> exists and
?C: can be included.
?C:.
?H:#$i_bfd I_BFD  /**/
?H:.
?LINT:set i_bfd
: see if this is a bfd.h system
set bfd.h i_bfd
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_bfd.U
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```
?RCS: $Id: d_gethbynm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_gethbynm.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_gethbyname: Inlibc
?MAKE: -pick add $@ %<
?S:d_gethbyname (d_gethbynm d_gethhstby):
?S: This variable conditionally defines the HAS_GETHOSTBYNAME symbol, which
?S: indicates to the C program that the gethostbyname() routine is available
?S: to look up host names in some data base or other.
?S:.
?C:HAS_GETHOSTBYNAME (GETHOSTBYNAME):
?C: This
```

```
 symbol, if defined, indicates that the gethostbyname() routine is
?C: available to look up host names in some data base or other.
?C:.
?H:#$d_gethbyname HAS_GETHOSTBYNAME  /**/
?H:.
?LINT:set d_gethbyname
: see if gethostbyname exists
set gethostbyname d_gethbyname
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_gethbynm.U
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```
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fp_class: Inlibc
?MAKE: -pick add $@ %<
?S:d_fp_class:
?S: This variable conditionally defines the HAS_FP_CLASS symbol, which
?S: indicates to the C program that the fp_class() routine is available.
?S:.
?C:HAS_FP_CLASS:
?C: This symbol, if defined, indicates that the fp_class routine is
?C: available to classify doubles.  Available for example in Digital UNIX.
?C: The returned values are defined in <math.h> and are:
?C:
?C: FP_SNAN           Signaling NaN (Not-a-Number)
?C: FP_QNAN           Quiet NaN (Not-a-Number)
?C: FP_POS_INF        +infinity
?C: FP_NEG_INF        -infinity
?C: FP_POS_NORM       Positive normalized
?C: FP_NEG_NORM       Negative normalized
?C: FP_POS_DENORM     Positive denormalized
?C: FP_NEG_DENORM
    Negative denormalized
?C: FP_POS_ZERO       +0.0 (positive zero)
?C: FP_NEG_ZERO       -0.0 (negative zero)
?C:.
?H:#$d_fp_class HAS_FP_CLASS  /**/
?H:.
?LINT:set d_fp_class
```

```
: see if fp_class exists
set fp_class d_fp_class
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fp_class.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_sysaccess: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysaccess:
?S: This variable conditionally defines the I_SYS_ACCESS symbol,
?S: and indicates whether a C program should include <sys/access.h>.
?S:.
?C:I_SYS_ACCESS:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/access.h>.
?C:.
?H:#$i_sysaccess   I_SYS_ACCESS              /**/
?H:.
?LINT:set i_sysaccess
: see if sys/access.h is available
set sys/access.h i_sysaccess
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/acl/i_sysaccess.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_truncate.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_truncate.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_truncate: Inlibc
?MAKE: -pick add $@ %<
?S:d_truncate:
?S: This variable conditionally defines HAS_TRUNCATE if truncate() is
?S: available to truncate files.
?S:.
?C:HAS_TRUNCATE (TRUNCATE):
?C: This symbol, if defined, indicates that the truncate routine is
?C: available to truncate files.
?C:.
?H:#$d_truncate HAS_TRUNCATE /**/
?H:.
?LINT:set
 d_truncate
: see if truncate exists
set truncate d_truncate
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_truncate.U
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```
?RCS: $Id: d_getnetprotos.U,v $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_getnetprotos : Hasproto i_netdb
?MAKE: -pick add $@ %<
?S:d_getnetprotos:
?S: This variable conditionally defines the HAS_GETNET_PROTOS symbol,
?S: which indicates to the C program that <netdb.h> supplies
?S: prototypes for the various getnet*() functions.
?S: See also netdbtype.U for probing for various netdb types.
?S:.
```

```
?C:HAS_GETNET_PROTOS:
?C: This symbol, if defined, indicates that <netdb.h> includes
?C: prototypes for getnetent(), getnetbyname(), and
?C: getnetbyaddr().  Otherwise,
 it is up to the program to guess
?C: them.  See netdbtype.U for probing for various Netdb_xxx_t types.
?C:.
?H:#$d_getnetprotos HAS_GETNET_PROTOS /**/
?H:.
?LINT:set d_getnetprotos
: see if prototypes for various getnetxxx netdb.h functions are available
echo " "
set d_getnetprotos getnetent $i_netdb netdb.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/d_getnetprotos.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_access.U,v 3.0 1993/08/18 12:05:42 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_access.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_access: test +cc cat +cppflags h_fcntl h_sysfile i_stdlib rm Inlibc Findhdr
?MAKE: -pick add $@ %<
?S:d_access:
?S: This variable conditionally defines HAS_ACCESS if the access() system
?S: call is available to check for access permissions using real IDs.
?S:.
?C:HAS_ACCESS:
?C: This manifest constant lets the C program know that the access()
?C: system
 call is available to check for accessibility using real UID/GID.
?C: (always present on UNIX.)
?C:.
?H:#$d_access HAS_ACCESS  /**/
?H:.
```

```
?W:%<:R_OK W_OK X_OK F_OK
?LINT:set d_access
?LINT:change h_fcntl h_sysfile
: access call always available on UNIX
set access d_access
eval $inlibc

: locate the flags for 'access()'
case "$d_access" in
"$define")
 echo " "
 $cat >access.c <<EOCP
#include <sys/types.h>
#ifdef I_FCNTL
#include <fcntl.h>
#endif
#ifdef I_SYS_FILE
#include <sys/file.h>
#endif
#ifdef I_UNISTD
#include <unistd.h>
#endif
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() {
 exit(R_OK);
}
EOCP
 : check sys/file.h first, no particular reason here
 if $test `./findhdr sys/file.h` && \
  $cc -o access $cppflags -DI_SYS_FILE access.c >/dev/null 2>&1 ; then
  h_sysfile=true;
  echo "<sys/file.h> defines the *_OK access constants." >&4
 elif $test `./findhdr fcntl.h` && \
  $cc -o access $cppflags -DI_FCNTL access.c >/dev/null 2>&1 ; then
  h_fcntl=true;
  echo
 "<fcntl.h> defines the *_OK access constants." >&4
@if I_UNISTD
 elif $test `./findhdr unistd.h` && \
  $cc -o access $cppflags -DI_UNISTD access.c >/dev/null 2>&1 ; then
  echo "<unistd.h> defines the *_OK access constants." >&4
@end
 else
  echo "I can't find the four *_OK access constants--I'll use mine." >&4
 fi
```

```
 ;;
esac
$rm -f access*
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_access.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Init.U,v $
?RCS: Revision 3.0.1.1  1994/10/31  09:45:59  ram
?RCS: patch44: removed Options from MAKE to prevent Init overrides
?RCS: patch44: option processing now done after Myinit thanks to new Begin.U
?RCS: patch44: moved "Beginning of configuration questions" to Begin.U
?RCS: patch44: moved signal trapping instruction to Begin.U as well
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file initializes certain default variables
 used by Configure.  They
?X: may be overridden or added to by definitions in Myinit.U.
?X:
?MAKE:Init eunicefix _exe: Null
?MAKE: -pick add $@ %<
?MAKE: -pick weed $@ ./Init
?S:eunicefix:
?S: When running under Eunice this variable contains a command which will
?S: convert a shell script to the proper form of text file for it to be
?S: executable by the shell.  On other systems it is a no-op.
?S:.
?S:_exe (exe_ext):
?S: This variable defines the extension used for executable files.
?S: For unix it is empty.  Other possible values include '.exe'.
?S: DJGPP, Cygwin and OS/2 use '.exe'.  Stratus VOS uses '.pm'.
?S: On operating systems which do not require a specific extension
?S: for executable files, this variable is empty.
```

```
?S:.
?V:define undef smallmach:rmlist
?X:
?X: Throughout the units, one may make use of $define and $undef to reference
?X: a defined symbol or an undefined one. There is no need to add them in
?X: the dependency line since this unit makes them visible via ?V:, and
?X:
 everyone inherits from those symbols since by convention Init.U is the
?X: root dependency.
?X:
?T: DJGPP
: Initialize wide constants
define='define'
undef='undef'
smallmach='pdp11 i8086 z8000 i80286 iAPX286'
rmlist=''

: We must find out about Eunice early
eunicefix=':'
if test -f /etc/unixtovms; then
 eunicefix=/etc/unixtovms
fi
if test -f /etc/unixtovms.exe; then
 eunicefix=/etc/unixtovms.exe
fi

: Set executable suffix now -- needed before hints available
if test -f "/libs/version.library"; then
 : Amiga OS
  _exe=""
elif test -f "/system/gnu_library/bin/ar.pm"; then
 : Stratus VOS
 _exe=".pm"
elif test -n "$DJGPP"; then
 : DOS DJGPP
  _exe=".exe"
elif test -d c:/. ; then
 : OS/2 or cygwin
 _exe=".exe"
else
 : All other UNIX systems
 _exe=""
fi
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Init.U

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```
?RCS: $Id: lib.U,v 3.0.1.3 1995/09/25 09:16:47 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: lib.U,v $
?RCS: Revision 3.0.1.3  1995/09/25  09:16:47  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:38:08  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:27:40  ram
?RCS: patch32: now uses installation prefix to set the default
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?LINT:
 empty
?X:?MAKE:lib libexp: Getfile Loc Oldconfig Prefixit Prefixup prefixexp
?X:?MAKE: -pick add $@ %<
?X:?Y:TOP
?X:?S:lib:
?X:?S: This variable holds the name of the directory in which the user wants
?X:?S: to put public library files for the package in question.  It is most
?X:?S: often a local directory such as /usr/local/lib. Programs using this
?X:?S: variable must be prepared to deal with filename expansion.
?X:?S:.
?X:?S:libexp:
?X:?S: This variable is the same as the lib variable, but is filename expanded
?X:?S: at configuration time, for convenient use in your makefiles.
?X:?S:.
?X:: determine where public libraries go
?X:set lib lib
?X:eval $prefixit
?X:case "$lib" in
?X:")
?X: dflt=`./loc . "." $prefixexp/lib /usr/local/lib /usr/lib /lib`
?X: set dflt
?X: eval $prefixup
```

```
?X: ;;
?X:*)  dflt="$lib";;
?X:esac
?X:echo " "
?X:fn=d~
?X:rp='Where do you want to put the public libraries?'
?X:. ./getfile
?X:lib="$ans"
?X:libexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/nullified/lib.U
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```
?RCS: $Id: d_dlsymun.U,v $
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_dlsymun.U,v $
?RCS:
?RCS:
?MAKE:d_dlsymun: cat cc ccflags ldflags ld rm Setvar dlsrc i_dlfcn i_stdlib \
 cccdlflags ccdlflags lddlflags libs dlext _o run to
?MAKE: -pick add $@ %<
?X: This is specific to perl5.
?S:d_dlsymun:
?S: This variable conditionally defines DLSYM_NEEDS_UNDERSCORE, which
?S: indicates that we need to prepend an underscore to the symbol
?S: name before calling dlsym().
?S:.
?C:DLSYM_NEEDS_UNDERSCORE:
?C: This symbol, if defined, indicates that we need to prepend an
?C: underscore to the symbol name before calling dlsym().  This only
?C: makes sense if you *have* dlsym, which we will presume is the
?C: case if you're using dl_dlopen.xs.
?C:.
?H:#$d_dlsymun DLSYM_NEEDS_UNDERSCORE /**/
?H:.
?LINT:set
 d_dlsymun
?T: xxx
?F:!fred
: Check if dlsym need a leading underscore
echo " "
```

```
val="$undef"

case "$dlsrc" in
dl_dlopen.xs)
 echo "Checking whether your dlsym() needs a leading underscore ..." >&4
 $cat >dyna.c <<'EOM'
fred () { }
EOM

$cat >fred.c<<EOM

#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_dlfcn I_DLFCN
#ifdef I_DLFCN
#include <dlfcn.h>      /* the dynamic linker include file for SunOS/Solaris */
#else
#include <sys/types.h>
#include <nlist.h>
#include <link.h>
#endif

extern int fred() ;

int main()
{
   void * handle ;
   void * symbol ;
#ifndef RTLD_LAZY
   int mode = 1 ;
#else
   int mode = RTLD_LAZY ;
#endif
   handle = dlopen("./dyna.$dlext", mode) ;
   if (handle == NULL) {
 printf ("1\n") ;
 fflush (stdout) ;
 exit(0);
   }
   symbol = dlsym(handle, "fred") ;
   if (symbol == NULL) {
 /* try putting a leading underscore */
 symbol = dlsym(handle, "_fred") ;
 if (symbol ==
```

```
 NULL) {
     printf ("2\n") ;
     fflush (stdout) ;
     exit(0);
 }
 printf ("3\n") ;
   }
   else
 printf ("4\n") ;
   fflush (stdout) ;
   exit(0);
}
EOM
 : Call the object file tmp-dyna.o in case dlext=o.
 if $cc $ccflags $cccdlflags -c dyna.c > /dev/null 2>&1 &&
  mv dyna${_o} tmp-dyna${_o} > /dev/null 2>&1 &&
  $ld -o dyna.$dlext $ldflags $lddlflags tmp-dyna${_o} > /dev/null 2>&1 &&
  $cc -o fred $ccflags $ldflags $cccdlflags $ccdlflags fred.c $libs > /dev/null 2>&1 && $to dyna.$dlext; then
  xxx=`$run ./fred`
  case $xxx in
  1) echo "Test program failed using dlopen." >&4
   echo "Perhaps you should not use dynamic loading." >&4;;
  2) echo "Test program failed using dlsym." >&4
   echo "Perhaps you should not use dynamic loading." >&4;;
  3) echo "dlsym needs a leading underscore" >&4
   val="$define" ;;
  4) echo "dlsym doesn't need a leading underscore." >&4;;
  esac
 else
  echo "I can't compile and run the test program." >&4
              echo "I'm guessing that dlsym
 doesn't need a leading underscore." >&4
 fi
 ;;
esac

$rm -f fred fred.* dyna.$dlext dyna.* tmp-dyna.*

set d_dlsymun
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_dlsymun.U
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?RCS: $Id: d_setprotoent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi

```
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_setprotoent_r setprotoent_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_setprotoent_r:
?S: This variable conditionally defines the HAS_SETPROTOENT_R symbol,
?S: which indicates to the C program that the setprotoent_r()
?S: routine is available.
?S:.
?S:setprotoent_r_proto:
?S: This variable encodes the prototype of setprotoent_r.
?S: It is zero if d_setprotoent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setprotoent_r
?S: is defined.
?S:.
?C:HAS_SETPROTOENT_R:
?C: This symbol, if defined, indicates that the setprotoent_r
 routine
?C: is available to setprotoent re-entrantly.
?C:.
?C:SETPROTOENT_R_PROTO:
?C: This symbol encodes the prototype of setprotoent_r.
?C: It is zero if d_setprotoent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setprotoent_r
?C: is defined.
?C:.
?H:#$d_setprotoent_r HAS_SETPROTOENT_R /**/
?H:#define SETPROTOENT_R_PROTO $setprotoent_r_proto /**/
?H:.
?T:try hdrs d_setprotoent_r_proto
: see if setprotoent_r exists
set setprotoent_r d_setprotoent_r
eval $inlibc
case "$d_setprotoent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_setprotoent_r_proto:$usethreads" in
 ":define") d_setprotoent_r_proto=define
  set d_setprotoent_r_proto setprotoent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_setprotoent_r_proto" in
```

```
 define)
 case "$setprotoent_r_proto" in
 "|0) try='int setprotoent_r(int, struct protoent_data*);'
 ./protochk "$extern_C $try" $hdrs && setprotoent_r_proto=I_ID ;;
 esac
 case "$setprotoent_r_proto"
 in
 "|0) try='void setprotoent_r(int, struct protoent_data*);'
 ./protochk "$extern_C $try" $hdrs && setprotoent_r_proto=V_ID ;;
 esac
 case "$setprotoent_r_proto" in
 "|0) d_setprotoent_r=undef
  setprotoent_r_proto=0
  echo "Disabling setprotoent_r, cannot determine prototype." >&4 ;;
 * ) case "$setprotoent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) setprotoent_r_proto="REENTRANT_PROTO_$setprotoent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "setprotoent_r has no prototype, not using it." >&4 ;;
  esac
  d_setprotoent_r=undef
  setprotoent_r_proto=0
  ;;
 esac
 ;;
*) setprotoent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_setprotoent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: d_time.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:07:43  ram
?RCS: patch56: typo fix, sytem -> system
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:16:38  ram
?RCS: patch36: now uses new Typedef unit to compute type information (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X: Maybe <sys/types.h> should be included?
?X:INC: i_systypes
?MAKE:d_time timetype: Csym Setvar Findhdr Myread Typedef
?MAKE: -pick add $@ %<
?S:d_time:
?S: This
 variable conditionally defines the HAS_TIME symbol, which indicates
?S: that the time() routine exists.  The time() routine is normally
?S: provided on UNIX systems.
?S:.
?S:timetype:
?S: This variable holds the type returned by time(). It can be long,
?S: or time_t on BSD sites (in which case <sys/types.h> should be
?S: included). Anyway, the type Time_t should be used.
?S:.
?C:HAS_TIME (TIMER):
?C: This symbol, if defined, indicates that the time() routine exists.
?C:.
?C:Time_t (TIMETYPE):
?C: This symbol holds the type returned by time(). It can be long,
?C: or time_t on BSD sites (in which case <sys/types.h> should be
?C: included).
?C:.
?H:#$d_time HAS_TIME  /**/
?H:#define Time_t $timetype  /* Time type */
?H:.
?LINT:set d_time
: see if time exists
echo " "
if set time val -f d_time; eval $csym; $val; then
 echo 'time() found.' >&4
 val="$define"
 set time_t timetype long stdio.h sys/types.h
 eval $typedef
 dflt="$timetype"
 echo " "
 rp="What type is returned by time() on this
```

```
 system?"
 . ./myread
 timetype="$ans"
else
 echo 'time() not found, hope that will do.' >&4
 val="$undef"
 timetype='int';
fi
set d_time
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_time.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_tzmin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_tzmin.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:16:58  ram
?RCS: patch36: call ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:49  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_tzmin: contains cppstdin cppminus timeincl rm Setvar Guess
?MAKE: -pick add $@ %<
?S:d_tzmin:
?S: This symbol conditionally defines TZ_MINUTESWEST if the system uses
?S: tz_minuteswest in time header instead of timezone.
?S:.
?C:TZ_MINUTESWEST:
?C: This
 symbol is defined if this system uses tz_minuteswest
?C: in time header instead of timezone.
?C: If not defined, you may have to use struct timeb and ftime() rather
?C: than the new gettimeofday() system call.
?C:.
?H:#$d_tzmin TZ_MINUTESWEST  /**/
?H:.
```

```
?LINT:set d_tzmin
: see if tz_minuteswest is defined in time header
echo " "
val="$undef"
$cppstdin $cppminus < $timeincl > try 2>&1
if $contains 'tz_minuteswest' try >/dev/null 2>&1; then
echo "You have tz_minuteswest defined in $timeincl rather than timezone." >&4
 val="$define"
elif $contains 'timezone' try >/dev/null 2>&1; then
echo "You have timezone defined in $timeincl rather than tz_minuteswest." >&4
else
 echo "Your $timeincl file looks strange." >&4
fi
if ./bsd; then
 case "$d_tzmin" in
 "$undef") echo "(Maybe your system is an USG one after all?)";;
 esac
fi
set d_tzmin
eval $setvar
$rm -f try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_tzmin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_symlink.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_symlink.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:41  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_symlink: Inlibc
?MAKE: -pick add $@ %<
?S:d_symlink:
?S: This variable conditionally defines the HAS_SYMLINK symbol, which
?S: indicates to the C program that the symlink() routine is available
?S: to create symbolic links.
?S:.
```

```
?C:HAS_SYMLINK (SYMLINK):
?C: This symbol, if defined, indicates that the symlink routine is available
?C: to
 create symbolic links.
?C:.
?H:#$d_symlink HAS_SYMLINK /**/
?H:.
?LINT:set d_symlink
: see if symlink exists
set symlink d_symlink
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_symlink.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_mkdir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_mkdir.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:37  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_mkdir: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkdir:
?S: This variable conditionally defines the HAS_MKDIR symbol, which
?S: indicates to the C program that the mkdir() routine is available
?S: to create directories..
?S:.
?C:HAS_MKDIR (MKDIR):
?C: This symbol, if defined, indicates that the mkdir routine is available
?C: to create directories.
  Otherwise you should fork off a new process to
?C: exec /bin/mkdir.
?C:.
?H:#$d_mkdir HAS_MKDIR  /**/
?H:.
?LINT:set d_mkdir
: see if mkdir exists
```

```
set mkdir d_mkdir
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_mkdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strtoul.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:46:43  ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_strtoul: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtoul:
?S: This variable conditionally defines the HAS_STRTOUL symbol, which
?S: indicates to the C program that the strtoul() routine is available
?S: to provide conversion of strings to unsigned long.
?S:.
?C:HAS_STRTOUL (STRTOUL):
?C: This symbol, if defined, indicates that the strtoul routine is
?C: available
 to provide conversion of strings to unsigned long.
?C:.
?H:#$d_strtoul HAS_STRTOUL /**/
?H:.
?LINT:set d_strtoul
: see if strtoul exists
set strtoul d_strtoul
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strtoul.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Getfile.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Getfile.U,v $
?RCS: Revision 3.0.1.7  1997/02/28  15:01:06  ram
?RCS: patch61: getfile script now begins with "startsh"
?RCS:
?RCS: Revision 3.0.1.6  1995/02/15  14:11:00  ram
?RCS: patch51: was not working if ~'s allowed with d_portable on (WED)
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:11:25  ram
?RCS: patch45: added support for escaping answers to skip various checks
?RCS: patch45: modified message issued after file expansion
?RCS:
?RCS: Revision
 3.0.1.4  1994/10/29  15:53:19  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.3  1994/05/06  14:23:36  ram
?RCS: patch23: getfile could be confused by file name in "locate" requests
?RCS: patch23: new 'p' directive to assume file is in people's path (WED)
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:01:31  ram
?RCS: patch16: added metalint hint on changed 'ans' variable
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  15:46:27  ram
?RCS: patch10: minor format problems and misspellings fixed
?RCS: patch10: now performs from package dir and not from UU subdir
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to get a file name and make some sanity checks. Optionally, a ~name
?X: expansion is performed.
?X:
?X: To use this unit, $rp and $dflt must hold the question and the
?X: default answer, which will be passed as-is
 to the myread script.
?X: The $fn variable must hold the file type (f or d, for file/directory).
```

```
?X: If $gfpth is set to a list of space-separated list of directories,
?X: those are prefixes for the filename.  Unless $gfpthkeep is set to 'y',
?X: gfpth is cleared on return from Getfile.
?X:
?X: If it is followed by a ~, then ~name substitution will occur. Upon return,
?X: $ans is set with the filename value. If a / is specified, then only a full
?X: path name is accepted (but ~ substitution occurs before, if needed). The
?X: expanded path name is returned in that case.
?X:
?X: If a + is specified, the existence checks are skipped. This usually means
?X: the file/directory is under the full control of the program.
?X:
?X: If the 'n' (none) type is used, then the user may answer none.
?X: The 'e' (expand) switch may be used to bypass d_portable, expanding ~name.
?X:
?X: If the 'l' (locate) type is used, then it must end with a ':' and then a
?X: file name. If the answer is a directory,
 the file name will be appended
?X: before testing for file existence. This is useful in locate-style
?X: questions like "where is the active file?". In that case, one should
?X: use:
?X:
?X:   dflt='~news/lib'
?X:   fn='l~:active'
?X:   rp='Where is the active file?'
?X:   . ./getfile
?X:   active="$ans"
?X:
?X: If the 'p' (path) letter is specified along with 'l', then an answer
?X: without a leading / will be expected to be found in everyone's path.
?X:
?X: It is also possible to include a comma-separated list of items within
?X: parentheses to specify which items should be accepted as-is with no
?X: further checks. This is useful when for instance a full path is expected
?X: but the user may escape out via "magical" answers.
?X:
?X: If the answer to the question is 'none', then the existence checks are
?X: skipped and the empty string is returned.
?X:
?MAKE:Getfile: d_portable contains startsh Myread Filexp tr trnl
?MAKE: -pick add $@ %<
?V:ansexp:fn gfpth gfpthkeep
?F:./getfile
?T:tilde
 type what orig_rp orig_dflt fullpath already redo skip none_ok \
 value exp_file nopath_ok loc_file fp pf dir direxp
?LINT:change ans
?LINT:change gfpth
```

```
: now set up to get a file name
cat <<EOS >getfile
$startsh
EOS
cat <<'EOSC' >>getfile
tilde=''
fullpath=''
already=''
skip=''
none_ok=''
exp_file=''
nopath_ok=''
orig_rp="$rp"
orig_dflt="$dflt"
case "$gfpth" in
'') gfpth='.' ;;
esac

?X: Begin by stripping out any (...) grouping.
case "$fn" in
*\(*)
 : getfile will accept an answer from the comma-separated list
 : enclosed in parentheses even if it does not meet other criteria.
 expr "$fn" : '.*(\(.*\)).*' | $tr ',' $trnl >getfile.ok
 fn=`echo $fn | sed 's/(.*)//'`
 ;;
esac

?X: Catch up 'locate' requests early, so that we may strip the file name
?X: before looking at the one-letter commands, in case the file name contains
?X: one of them. Reported by Wayne Davison <davison@borland.com>.
case "$fn" in
*:*)
 loc_file=`expr $fn : '.*:\(.*\)'`
 fn=`expr $fn : '\(.*\):.*'`
 ;;
esac

case
 "$fn" in
*~*) tilde=true;;
esac
case "$fn" in
*/*) fullpath=true;;
esac
case "$fn" in
*+*) skip=true;;
esac
```

```
case "$fn" in
*n*) none_ok=true;;
esac
case "$fn" in
*e*) exp_file=true;;
esac
case "$fn" in
*p*) nopath_ok=true;;
esac

case "$fn" in
*f*) type='File';;
*d*) type='Directory';;
*l*) type='Locate';;
esac

what="$type"
case "$what" in
Locate) what='File';;
esac

case "$exp_file" in
")
 case "$d_portable" in
 "$define") ;;
 *) exp_file=true;;
 esac
 ;;
esac

cd ..
while test "$type"; do
 redo=''
 rp="$orig_rp"
 dflt="$orig_dflt"
 case "$tilde" in
 true) rp="$rp (~name ok)";;
 esac
 . UU/myread
?X: check for allowed escape sequence which may be accepted verbatim.
 if test -f UU/getfile.ok && \
  $contains "^$ans\$" UU/getfile.ok >/dev/null 2>&1
 then
  value="$ans"
  ansexp="$ans"
  break
 fi
 case "$ans" in
```

```
 none)
  value=''
  ansexp=''
  case "$none_ok" in
  true) type='';;
  esac
  ;;
 *)
  case "$tilde" in
  '') value="$ans"
   ansexp="$ans";;
  *)
   value=`UU/filexp $ans`
   case
 $? in
   0)
    if test "$ans" != "$value"; then
     echo "(That expands to $value on this system.)"
    fi
    ;;
   *) value="$ans";;
   esac
   ansexp="$value"
   case "$exp_file" in
   '') value="$ans";;
   esac
   ;;
  esac
  case "$fullpath" in
  true)
?X: Perform all the checks on ansexp and not value since when d_portable
?X: is defined, the original un-expanded answer which is stored in value
?X: would lead to "non-existent" error messages whilst ansexp has been
?X: properly expanded. -- Fixed by Jan.Djarv@sa.erisoft.se (Jan Djarv)
?X: Always expand ~user if '/' was requested
   case "$ansexp" in
   /*) value="$ansexp" ;;
?X: Allow for c:/some/path
   [a-zA-Z]:/*) value="$ansexp" ;;
   *)
    redo=true
    case "$already" in
    true)
    echo "I shall only accept a full path name, as in /bin/ls." >&4
    echo "Use a ! shell escape if you wish to check pathnames." >&4
     ;;
    *)
    echo "Please give a full path name, starting with slash." >&4
```

```
    case "$tilde"
in
    true)
   echo "Note that using ~name is ok provided it expands well." >&4
     already=true
     ;;
    esac
   esac
   ;;
  esac
  ;;
 esac
 case "$redo" in
 ")
  case "$type" in
  File)
   for fp in $gfpth; do
    if test "X$fp" = X.; then
        pf="$ansexp"
    else
        pf="$fp/$ansexp"
    fi
    if test -f "$pf"; then
     type="
    elif test -r "$pf" || (test -h "$pf") >/dev/null 2>&1
    then
     echo "($value is not a plain file, but that's ok.)"
     type="
    fi
    if test X"$type" = X; then
        value="$pf"
        break
    fi
   done
   ;;
  Directory)
   for fp in $gfpth; do
    if test "X$fp" = X.; then
        dir="$ans"
        direxp="$ansexp"
    else
        dir="$fp/$ansexp"
        direxp="$fp/$ansexp"
    fi
    if test -d "$direxp"; then
     type="
     value="$dir"
     break
```

```
    fi
   done
   ;;
  Locate)
   if test -d "$ansexp"; then
    echo "(Looking for $loc_file in directory
$value.)"
    value="$value/$loc_file"
    ansexp="$ansexp/$loc_file"
   fi
   if test -f "$ansexp"; then
    type="
   fi
   case "$nopath_ok" in
   true) case "$value" in
    */*) ;;
    *) echo "Assuming $value will be in people's path."
     type="
     ;;
    esac
    ;;
   esac
   ;;
  esac

  case "$skip" in
  true) type=";
  esac

  case "$type" in
  ") ;;
  *)
   if test "$fastread" = yes; then
    dflt=y
   else
    dflt=n
   fi
   rp="$what $value doesn't exist.  Use that name anyway?"
   . UU/myread
   dflt="
   case "$ans" in
   y*) type=";;
   *) echo " ";;
   esac
   ;;
  esac
  ;;
 esac
```

```
  ;;
 esac
done
cd UU
ans="$value"
rp="$orig_rp"
dflt="$orig_dflt"
rm -f getfile.ok
test "X$gfpthkeep" != Xy && gfpth=""
EOSC
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Getfile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_shmctl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_shmctl.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:18  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_shmctl: Inlibc
?MAKE: -pick add $@ %<
?S:d_shmctl:
?S: This variable conditionally defines the HAS_SHMCTL symbol, which
?S: indicates to the C program that the shmctl() routine is available.
?S:.
?C:HAS_SHMCTL:
?C: This symbol, if defined, indicates that the shmctl() routine is
?C: available to perform shared memory control operations.
?C:.
?H:#$d_shmctl
 HAS_SHMCTL  /**/
?H:.
?LINT:set d_shmctl
: see if shmctl exists
set shmctl d_shmctl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_shmctl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_madvise: Inlibc
?MAKE: -pick add $@ %<
?S:d_madvise:
?S: This variable conditionally defines HAS_MADVISE if madvise() is
?S: available to map a file into memory.
?S:.
?C:HAS_MADVISE:
?C: This symbol, if defined, indicates that the madvise system call is
?C: available to map a file into memory.
?C:.
?H:#$d_madvise HAS_MADVISE  /**/
?H:.
?LINT:set d_madvise
: see if madvise exists
set madvise d_madvise
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_madvise.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_open3.U,v 3.0.1.2 1997/02/28 15:37:12 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_open3.U,v $
```

```
?RCS: Revision 3.0.1.2  1997/02/28  15:37:12  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  13:58:26  ram
?RCS: patch56: added knowledge of the O_NONBLOCK symbol
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_open3: Compile test cat h_fcntl h_sysfile rm_try Setvar Findhdr run i_stdlib
?MAKE: -pick add $@ %<
?X: It would be easy to separate the
 h_O_stuff from this.
?X: Is there a reason to do so? -- HMS
?S:d_open3:
?S: This variable conditionally defines the HAS_OPEN3 manifest constant,
?S: which indicates to the C program that the 3 argument version of
?S: the open(2) function is available.
?S:.
?C:HAS_OPEN3 (OPEN3):
?C: This manifest constant lets the C program know that the three
?C: argument form of open(2) is available.
?C:.
?H:#$d_open3 HAS_OPEN3  /**/
?H:.
?W:%<:O_RDONLY O_WRONLY O_RDWR O_NDELAY O_APPEND O_SYNC O_CREAT O_TRUNC
?W:%<:O_EXCL O_NONBLOCK
?F:!try
?LINT:set d_open3
?LINT:change h_fcntl h_sysfile
: Locate the flags for 'open()'
echo " "
$cat >try.c <<EOCP
#include <sys/types.h>
#ifdef I_FCNTL
#include <fcntl.h>
#endif
#ifdef I_SYS_FILE
#include <sys/file.h>
#endif
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() {
 if(O_RDONLY);
#ifdef O_TRUNC
 exit(0);
```

```
#else
 exit(1);
#endif
}
EOCP
: check sys/file.h first to get FREAD on Sun
if $test `./findhdr sys/file.h` && \
  set try -DI_SYS_FILE
 && eval $compile; then
 h_sysfile=true;
 echo "<sys/file.h> defines the O_* constants..." >&4
 if $run ./try; then
  echo "and you have the 3 argument form of open()." >&4
  val="$define"
 else
  echo "but not the 3 argument form of open().  Oh, well." >&4
  val="$undef"
 fi
elif $test `./findhdr fcntl.h` && \
  set try -DI_FCNTL && eval $compile; then
 h_fcntl=true;
 echo "<fcntl.h> defines the O_* constants..." >&4
 if $run ./try; then
  echo "and you have the 3 argument form of open()." >&4
  val="$define"
 else
  echo "but not the 3 argument form of open().  Oh, well." >&4
  val="$undef"
 fi
else
 val="$undef"
 echo "I can't find the O_* constant definitions!  You got problems." >&4
fi
set d_open3
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985125_1718366938.3031025/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_open3.U

1.2862 libperl5.34 5.34.0-3ubuntu1.3

1.2862.1 Available under license :

No license file was found, but licenses were detected in source scan.

?RCS: Id

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Finish.U,v $
?RCS: Revision 3.0.1.6  1995/02/15  14:09:30  ram
?RCS: patch51: now clearer about how to edit config.sh at the prompt (WED)
?RCS:
?RCS: Revision 3.0.1.5  1994/10/29  15:53:14  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.4  1994/05/06  14:19:37  ram
?RCS: patch23: added blank lines around 'End of Configure'
?RCS:
?RCS: Revision 3.0.1.3  1993/10/16  13:46:09  ram
?RCS: patch12: replaced Config_h by Magic_h in the dependency line
?RCS:
?RCS:
 Revision 3.0.1.2  1993/09/13  15:45:26  ram
?RCS: patch10: fixed shell evaluation w/o shell escape while in silent mode
?RCS:
?RCS: Revision 3.0.1.1  1993/08/30  08:55:59  ram
?RCS: patch8: prevents myread from blocking on empty answers, exceptionally
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit is the very last one in the Configure script.  It runs all the
?X: SH files, which among other things produce config.h and (usually) Makefile.
?X: It offers to do a make depend if the Makefile contains that target.
?X:
?MAKE:Finish: Chk_MANI Extract Myread Oldsym Magic_h cat rm contains \
 test package make
?MAKE: -pick add $@ %<
?F:!config.sh
?T:pwd
: Finish up by extracting the .SH files
case "$alldone" in
exit)
?X: They supplied the -E switch
 echo "Stopping at your request, leaving temporary files around."
 exit 0
```

```
 ;;
cont)
 ;;
")
 dflt=''
 nostick=true
 $cat <<EOM

If you'd like to make any changes to the config.sh
 file before I begin
to configure things, do it as a shell escape now (e.g. !vi config.sh).

EOM
 rp="Press return or use a shell escape to edit config.sh:"
 . UU/myread
 nostick=''
 case "$ans" in
 '') ;;
 *) : in case they cannot read
  sh 1>&4 -c "$ans";;
 esac
 ;;
esac

: if this fails, just run all the .SH files by hand
. ./config.sh

?X:
?X: Turn silent mode off from now on (we want a verbose file extraction).
?X: This means we have to explicitly test for '$silent' from now on to
?X: strip off any verbose messages.
?X:
echo " "
exec 1>&4
pwd=`pwd`
. ./UU/extract
cd "$pwd"

if $contains '^depend:' [Mm]akefile >/dev/null 2>&1; then
 dflt=y
 case "$silent" in
 true) ;;
 *)
  $cat <<EOM

Now you need to generate make dependencies by running "$make depend".
You might prefer to run it in background: "$make depend > makedepend.out &"
It can take a while, so you might not want to run it right now.
```

```
EOM
  ;;
 esac
 rp="Run $make depend now?"
 . UU/myread
 case "$ans" in
 y*)
  $make depend
 && echo "Now you must run '$make'."
  ;;
 *)
  echo "You must run '$make depend' then '$make'."
  ;;
 esac
elif test -f [Mm]akefile; then
 echo " "
 echo "Now you must run a $make."
else
 echo "Configure done."
fi

if $test -f Policy.sh; then
   $cat <<EOM

If you compile $package on a different machine or from a different object
directory, copy the Policy.sh file from this object directory to the
new one before you run Configure -- this will help you with most of
the policy defaults.

EOM
fi
if $test -f UU/config.msg; then
   echo "Hmm.  I also noted the following information while running:"
   echo " "
   $cat UU/config.msg >&4
fi
?X:
?X: kit*isdone files are left over by shell archives built using the makedist
?X: script which comes from dist, while ark*isdone files are left over by
?X: the cshar archive maker.
?X:
$rm -f kit*isdone ark*isdone
$rm -rf UU

: End of Configure

Found in path(s):
```

* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Finish.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Head.U 6 2006-08-25 22:21:46Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Head.U,v $
?RCS: Revision 3.0.1.9  1997/02/28  15:02:09  ram
?RCS: patch61: make sure we unset CDPATH for shells that support this
?RCS: patch61: improved Korn shell detection and handling
?RCS:
?RCS: Revision 3.0.1.8  1995/07/25  13:40:02  ram
?RCS: patch56: added SVR4-ish /opt directories to path list (ADO)
?RCS: patch56: OS/2 platforms are using another path separator
?RCS:
?RCS: Revision 3.0.1.7  1995/03/21  08:46:15  ram
?RCS: patch52: definition of
 paths wrongly added spurious ':' chars
?RCS:
?RCS: Revision 3.0.1.6  1994/10/29  15:54:19  ram
?RCS: patch36: make sure ENV is unset before calling /bin/ksh
?RCS:
?RCS: Revision 3.0.1.5  1994/08/29  16:03:44  ram
?RCS: patch32: now sets PATH only using existing directories
?RCS:
?RCS: Revision 3.0.1.4  1994/06/20  06:54:28  ram
?RCS: patch30: now computes its invocation name into 'me'
?RCS: patch30: symbol me is made visible to all units read-only
?RCS:
?RCS: Revision 3.0.1.3  1993/12/15  08:15:07  ram
?RCS: patch15: added /sbin:/usr/sbin:/usr/libexec in PATH for BSD/386
?RCS:
?RCS: Revision 3.0.1.2  1993/11/10  17:32:35  ram
?RCS: patch14: ensure PATH is reset to '.' before testing for alias
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:38:07  ram
?RCS: patch7: not all 'test' programs support the -x option
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:58  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?X:
?X: This is the very first unit in the Configure script.  It is mostly just
?X:
 things to keep people from getting into a tizzy right off the bat.
?X:
?MAKE:Head:
?MAKE: -pick wipe $@ %<
?V:PATH p_ _exe me newsh
?T:argv p paths OS2_SHELL DJGPP
?T:inksh needksh avoidksh newsh changesh reason
?F:!*
?LINT:extern ENV CDPATH SHELL MACHTYPE _exe is_os2
?LINT:change ENV CDPATH is_os2
?LINT:nocomment
#! /bin/sh
#
# If these # comments don't work, trim them. Don't worry about any other
# shell scripts, Configure will trim # comments from them for you.
#
# (If you are trying to port this package to a machine without sh,
# I would suggest you have a look at the prototypical config_h.SH file
# and edit it to reflect your system. Some packages may include samples
# of config.h for certain machines, so you might look for one of those.)
#
?X:
?X: NOTE THAT A CONFIGURE SCRIPT IS IN THE PUBLIC DOMAIN (whether or not
?X: the software which uses it is in the public domain).
?X:
# Yes, you may rip this off to use in other distribution packages. This
# script belongs to the public
 domain and cannot be copyrighted.
#
?X:
?X: WE ASK YOU NOT TO REMOVE OR ALTER THE FOLLOWING PARAGRAPH, PLEASE:
?X:
# Note: this Configure script was generated automatically by the tool
# called "metaconfig". Rather than working with this copy of Configure,
# you should use metaconfig. Perl uses a modified version of this
# tool, and this, together with the metaconfig units, are available
# in the git repository:
#    $ git clone https://github.com/Perl/metaconfig metaconfig
# The original dist package (including metaconfig) is available on github:
#    $ git clone https://github.com/rmanfredi/dist.git dist-git
#
?X: OK, I'll not alter, but I'll add to it then ...
# Though this script was generated by metaconfig from metaunits, it is
# OK to send patches against Configure itself (but not to commit them
```

```
# to blead). It's up to
# the Configure maintainers to backport the patch to the metaunits if it
# is accepted. Exceptions to this rule, and more information, is in
# Porting/pumpkin.pod.
?X:
?X:
 NOTA BENE:
?X: If you develop you own version of metaconfig based on this work,
?X: you have to add some comments telling that the script was generated
?X: by your version, not mine: It credits your work.
?X:

# Generated using [metaconfig <VERSION> PL<PATCHLEVEL>]
# with additional metaconfig patches from https://github.com/Perl/metaconfig

cat >c1$$ <<EOF
ARGGGHHHH!!!!!

SCO csh still thinks true is false.  Write to SCO today and tell them that next
year Configure ought to "rm /bin/csh" unless they fix their blasted shell. :-)

(Actually, Configure ought to just patch csh in place.  Hmm.  Hmmmmm.  All
we'd have to do is go in and swap the && and || tokens, wherever they are.)

[End of diatribe. We now return you to your regularly scheduled programming...]
EOF
cat >c2$$ <<EOF

OOPS!  You naughty creature!  You didn't run Configure with sh!
I will attempt to remedy the situation by running sh for you...
EOF

true || cat c1$$ c2$$
true || exec sh $0 $argv:q

(exit $?0) || cat
 c2$$
(exit $?0) || exec sh $0 $argv:q
rm -f c1$$ c2$$

if test -f /dev/cputype -a -f /dev/drivers -a -f /dev/osversion; then
 cat <<EOF
***
*** I'm sorry but this system looks like Plan 9 and Plan 9 doesn't do
*** Configure that well.  (Plan 9 is close to UNIX but not close enough.)
*** Please read the README.plan9 for further instructions.
*** Cannot continue, aborting.
***
```

```
EOF
 exit 1
fi

if test -f /sys/utilities/MultiView ; then
 # AmigaOS, test -c for /dev/null is not useful
 :
elif test ! -c /dev/null ; then
 cat <<EOF
***
*** I'm sorry, but /dev/null appears to be a file rather than a device.
*** Please consult your operating sytem's notes for making a device
*** in /dev.
*** Cannot continue, aborting.
***
EOF
 exit 1
fi

: compute my invocation name
me=$0
case "$0" in
*/*)
 me=`echo $0 | sed -e 's!.*/\(.*\)!\1!' 2>/dev/null`
 test "$me" || me=$0
 ;;
esac

?X:
?X: To be able to run under OS/2, we must detect that early enough to use
?X: the proper path separator, stored in $p_.
 It is : on UNIX and ; on
?X: DOS-ish systems such as OS/2.
?X:
: Proper separator for the PATH environment variable
p_=:
: On OS/2 this directory should exist if this is not floppy only system ":-]"
if test -d c:/. || ( uname -a | grep -i 'os\(/\|\)2' 2>&1 ) 2>&1 >/dev/null ; then
 if test -n "$OS2_SHELL"; then
  p_=\;
  PATH=`cmd /c "echo %PATH%" | tr '\\\\' / `
?X: That's a bug in ksh5.22
  OS2_SHELL=`cmd /c "echo %OS2_SHELL%" | tr '\\\\' / | tr '[A-Z]' '[a-z]'`
  is_os2=yes
 elif test -n "$DJGPP"; then
  case "X${MACHTYPE:-nonesuchmach}" in
  *cygwin|*msys) ;;
  *) p_=\; ;;
```

```
  esac
 fi
fi

?X:
?X: There are two schools of thoughts here. Some people correctly argue that
?X: the user has a better chance than we do of setting a reasonable PATH and
?X: others argue that Configure is the best place there is to set up a suitable
?X: PATH. Well, here we try to compromise by keeping the user's PATH and
?X: appending some directories which are known to work on some machine or the
?X: other.
 The rationale behind this being that a novice user might not have a
?X: proper environment variable set, and some directories like /etc (where
?X: chown is located on some BSD systems) may be missing--RAM.
?X:
?X: SVR4 adds an /opt directory for optional packages.  Some sites use
?X: various permutations on /opt as opposed to /usr or /usr/local.-- ADO
?X:
?X: We only add directories that are not already in the PATH of the
?X: user and the directories must exist also.
?X:
?X: 20040627, Merijn, HP-UX's ANSI compiler is in /opt/ansic/bin if present
?X:  and should be before /usr/ccs/bin, where the braindead bundled compiler
?X:  can be found. The /usr/ccs/bin compiler cannot be used to build perl.
?X:
: Proper PATH setting
paths='/bin /usr/bin /usr/local/bin /usr/ucb /usr/local /usr/lbin'
paths="$paths /opt/bin /opt/local/bin /opt/local /opt/lbin"
paths="$paths /usr/5bin /etc /usr/gnu/bin /usr/new /usr/new/bin /usr/nbin"
paths="$paths /opt/gnu/bin /opt/new /opt/new/bin /opt/nbin"
paths="$paths
 /sys5.3/bin /sys5.3/usr/bin /bsd4.3/bin /bsd4.3/usr/ucb"
paths="$paths /bsd4.3/usr/bin /usr/bsd /bsd43/bin /opt/ansic/bin /usr/ccs/bin"
paths="$paths /etc /usr/lib /usr/ucblib /lib /usr/ccs/lib"
paths="$paths /sbin /usr/sbin /usr/libexec"
paths="$paths /system/gnu_library/bin"

for p in $paths
do
 case "$p_$PATH$p_" in
 *$p_$p$p_*) ;;
 *) test -d $p && PATH=$PATH$p_$p ;;
 esac
done

PATH=.$p_$PATH
export PATH
```

```
: shall we be using ksh?
inksh=''
needksh=''
avoidksh=''
newsh=/bin/ksh
changesh=''
?X: Use (alias -x) and not (alias) since zsh and bash recognize the alias
?X: builtin but not the -x option which is typically ksh...
?X: We need to set up PATH before calling the "alias" built-in since some
?X: systems like HP-UX have a binary called /bin/alias.
if (PATH=.; alias -x) >/dev/null 2>&1; then
  inksh=true
fi
?X: On HP-UX, large Configure scripts may exercise a bug in /bin/sh, use ksh
if test -f /hp-ux -a -f /bin/ksh; then
 needksh='to avoid sh bug in "here document" expansion'
fi
?X:
 On AIX4, /bin/sh is really ksh and it causes problems, use sh
if test -d /usr/lpp -a -f /usr/bin/bsh -a -f /usr/bin/uname; then
 if test X`/usr/bin/uname -v` = X4; then
  avoidksh="to avoid AIX 4's /bin/sh"
  newsh=/usr/bin/bsh
 fi
fi
?X: On Digital UNIX, /bin/sh may start up buggy /bin/ksh, use sh
if test -f /osf_boot -a -f /usr/sbin/setld; then
 if test X`/usr/bin/uname -s` = XOSF1; then
  avoidksh="to avoid Digital UNIX' ksh"
  newsh=/bin/sh
?X: if BIN_SH is set to 'xpg4', sh will start up ksh
  unset BIN_SH
 fi
fi
?X: If we are not in ksh and need it, then feed us back to it
case "$inksh/$needksh" in
/[a-z]*)
?X: Clear ENV to avoid any ~/.kshrc that could alias cd or whatever...
?X: Don't use "unset ENV", that is not portable enough
  ENV=''
  changesh=true
  reason="$needksh"
 ;;
esac
?X: If we are in ksh and must avoid it, then feed us back to a new shell
case "$inksh/$avoidksh" in
true/[a-z]*)
 changesh=true
```

```
 reason="$avoidksh"
 ;;
esac
?X: Warn them if they use ksh on
 other systems, which are those where
?X: we don't need ksh nor want to avoid it explicitly, yet are using it.
case "$inksh/$needksh-$avoidksh-" in
true/--)
  cat <<EOM
(I see you are using the Korn shell.  Some ksh's blow up on $me,
mainly on older exotic systems.  If yours does, try the Bourne shell instead.)
EOM
 ;;
esac
case "$changesh" in
true)
 export newsh
 echo "(Feeding myself to $newsh $reason.)"
?X: Make sure they didn't say sh <Configure by checking whether $0 ends
?X: with Configure or not. If they did say sh <../../Configure, then too
?X: bad for them anyway, since we lost that path indication...
?X: Otherwise, execing $0 ensures we keep the full remote source dir
?X: indication for src.U.
 case "$0" in
 Configure|*/Configure) exec $newsh $0 "$@";;
 *) exec $newsh Configure "$@";;
 esac
 ;;
esac
?X: 2004.06.09 rac
?X: having $newsh persist as ksh here is bad news if ksh doesn't really
?X: exist. this causes us to toss away a perfectly good working test in
?X: bash in favor
 of more exotic external options. see bug 42665.
test -x "${newsh}" || unset newsh

?X: Unset CDPATH to avoid surprises when using cd under some shells
?X: Can't unset it because that's not portable to very old shells.
?X: Can't set it to '' because then bash 2.02 won't do "cd UU"  --AD  6/98.
?X: Don't want to set it to '.' because then ksh prints out the
?X: name of the directory every time you cd to it. --AD 6/98
?X: In order to inflict the least harm, change it only if it's set.
: if needed, set CDPATH to a harmless value that is not chatty
: avoid bash 2.02 problems with empty CDPATH.
case "$CDPATH" in
'') ;;
*) case "$SHELL" in
 *bash*) CDPATH='.' ;;
```

```
 *) CDPATH=" ;;
 esac
 ;;
esac

: Configure runs within the UU subdirectory
test -d UU || mkdir UU
?X: Use ./* to avoid any confirmation prompts from enhanced shells -- WED
cd UU && rm -f ./*
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Head.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_dld.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_dld.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:20:07  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:i_dld: Inhdr
?MAKE: -pick add $@ %<
?S:i_dld:
?S: This variable conditionally defines the I_DLD symbol, which
?S: indicates to the C program that <dld.h> (GNU dynamic loading)
?S: exists and should be included.
?S:.
?C:I_DLD:
?C: This symbol, if defined, indicates that <dld.h>
 exists and should
?C: be included before using GNU dynamic loading features.
?C:.
?H:#$i_dld I_DLD /**/
?H:.
?LINT:set i_dld
: see if dld is available
set dld.h i_dld
```

```
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_dld.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fpos64_t: \
 Inlibc Setvar Compile rm_try cat fpossize
?MAKE: -pick add $@ %<
?S:d_fpos64_t:
?S: This symbol will be defined if the C compiler supports fpos64_t.
?S:.
?C:HAS_FPOS64_T:
?C: This symbol will be defined if the C compiler supports fpos64_t.
?C:.
?H:#$d_fpos64_t HAS_FPOS64_T /**/
?H:.
?LINT:set d_fpos64_t
: check for fpos64_t
echo " "
echo "Checking to see if you have fpos64_t..." >&4
$cat >try.c <<EOCP
#include <stdio.h>
int main() { fpos64_t x = 7; }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have fpos64_t."
else
 val="$undef"
 echo "You do not have fpos64_t."
 case "$fpossize" in
 8) echo "(Your fpos_t is 64 bits, so you could use that.)" ;;
 esac
fi
$rm_try
set
 d_fpos64_t
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fpos64_t.U
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```
?RCS: $Id: Null.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Null.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:10  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit ends up producing shell code to set all variables to ".  This
?X: probably isn't necessary, but I'm paranoid.  About certain things.
?X:
?MAKE:Null: Head
?MAKE: -pick add.Null $@ %<
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Null.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_timegm: Inlibc
?MAKE: -pick add $@ %<
?S:d_timegm:
?S: This variable conditionally defines the HAS_TIMEGM symbol, which
?S: indicates to the C program that the timegm () routine is available.
?S:.
?C:HAS_TIMEGM:
?C: This symbol, if defined, indicates that the timegm routine is
?C: available to do the opposite of gmtime ()
```

```
?C:.
?H:#$d_timegm HAS_TIMEGM  /**/
?H:.
?LINT:set d_timegm
: see if timegm exists
set timegm d_timegm
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_timegm.U
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```
?RCS: $Id: d_ctermid_r.U,v 0RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_ctermid_r ctermid_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads extern_C
?MAKE: -pick add $@ %<
?S:d_ctermid_r:
?S: This variable conditionally defines the HAS_CTERMID_R symbol,
?S: which indicates to the C program that the ctermid_r()
?S: routine is available.
?S:.
?S:ctermid_r_proto:
?S: This variable encodes the prototype of ctermid_r.
?S: It is zero if d_ctermid_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_ctermid_r
?S: is defined.
?S:.
?C:HAS_CTERMID_R:
?C: This symbol, if defined, indicates that the ctermid_r routine
?C: is available to ctermid re-entrantly.
?C:.
?C:CTERMID_R_PROTO:
?C: This
 symbol encodes the prototype of ctermid_r.
?C: It is zero if d_ctermid_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_ctermid_r
?C: is defined.
?C:.
?H:#$d_ctermid_r HAS_CTERMID_R /**/
?H:#define CTERMID_R_PROTO $ctermid_r_proto /**/
```

```
?H:.
?T:try hdrs d_ctermid_r_proto
: see if ctermid_r exists
set ctermid_r d_ctermid_r
eval $inlibc
case "$d_ctermid_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h "
 case "$d_ctermid_r_proto:$usethreads" in
 ":define") d_ctermid_r_proto=define
  set d_ctermid_r_proto ctermid_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_ctermid_r_proto" in
 define)
 case "$ctermid_r_proto" in
 "|0) try='char* ctermid_r(char*);'
 ./protochk "$extern_C $try" $hdrs && ctermid_r_proto=B_B ;;
 esac
 case "$ctermid_r_proto" in
 "|0) d_ctermid_r=undef
  ctermid_r_proto=0
  echo "Disabling ctermid_r, cannot determine prototype." >&4 ;;
 * ) case "$ctermid_r_proto" in
  REENTRANT_PROTO*) ;;
  *)
 ctermid_r_proto="REENTRANT_PROTO_$ctermid_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "ctermid_r has no prototype, not using it." >&4 ;;
  esac
  d_ctermid_r=undef
  ctermid_r_proto=0
  ;;
 esac
 ;;
*) ctermid_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_ctermid_r.U

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```
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Signal.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:20:01  ram
?RCS: patch61: created
?RCS:
?X:
?X: This unit produces three files:
?X:
?X: 1- A signal.c file, which, when compiled and run, produces an output like:
?X:
?X:   HUP 1
?X:   INT 2
?X:   QUIT 3
?X:   etc...
?X:
?X: 2- A signal.awk script to parse the output of signal.c, fill
?X: in gaps (up to NSIG) and move duplicates to the end.
?X:
?X: 3- A signal_cmd script to compile signal.c and run it
?X: through sort -n -k 2 | uniq | awk -f signal.awk.
?X:
 (we try also sort -n +1 since some old hosts don't grok sort -k)
?X: (This is called signal_cmd to avoid OS/2 confusion with
?X: signal.cmd vs. signal.
?X: The signal_cmd script also falls back on checking signals one at a
?X: time in case the signal.c program fails.  On at least one version of
?X: Linux 2.1.x, the header file #define'd SIGRTMAX to a symbol that
?X: is not defined by the compiler/linker. :-(.  Further, on that same
?X: version of Linux, the user had a defective C-shell that gave an
?X: incorrect list for kill -l, so the fall-back didn't work.
?X:
?X: This unit is then used by sig_name.U.
?X:
?MAKE:Signal: test tr rm awk cat grep startsh eunicefix sed sort uniq \
 Findhdr cppstdin +cppflags cppminus Compile trnl run
?MAKE: -pick add $@ %<
?X:all files declared as "public" since they're used from other units
```

```
?F:signal.c signal_cmd signal.lst signal signal.awk
?T: xx xxx xxxfiles
?LINT:use rm run
: Trace out the files included by signal.h, then look for SIGxxx
 names.
?X: Remove SIGARRAYSIZE used by HPUX.
?X: Remove SIGSTKSIZE used by Linux.
?X: Remove SIGSTKSZ used by Posix.
?X: Remove SIGTYP void lines used by OS2.
?X: Some cpps, like os390, dont give the file name anywhere
if [ "X$fieldn" = X ]; then
 : Just make some guesses.  We check them later.
 xxx='/usr/include/signal.h /usr/include/sys/signal.h'
else
 xxx=`echo '#include <signal.h>' |
 $cppstdin $cppminus $cppflags 2>/dev/null |
 $grep '^[  ]*#.*include' |
 $awk "{print \\$$fieldn}" | $sed 's!"!!g' |\
  $sed 's!\\\\\\\\!/!g' | $sort | $uniq`
fi
?X: Check this list of files to be sure we have parsed the cpp output ok.
?X: This will also avoid potentially non-existent files, such
?X: as ../foo/bar.h
xxxfiles="
?X: Add /dev/null in case the $xxx list is empty.
for xx in $xxx /dev/null ; do
 $test -f "$xx" && xxxfiles="$xxxfiles $xx"
done
?X: If we have found no files, at least try signal.h
case "$xxxfiles" in
") xxxfiles=`./findhdr signal.h` ;;
esac
xxx=`awk '
$1 ~ /^#define$/ &&
 $2 ~ /^SIG[A-Z0-9]*$/ && $2 !~ /SIGARRAYSIZE/ && $2 !~ /SIGSTKSIZE/ && $2 !~ /SIGSTKSZ/ && $3 !~
/void/ {
 print substr($2, 4, 20)
}
$1 == "#" && $2 ~ /^define$/ && $3 ~ /^SIG[A-Z0-9]*$/ && $3 !~ /SIGARRAYSIZE/ && $4 !~ /void/ {
 print substr($3, 4, 20)
}' $xxxfiles`
: Append some common names just in case the awk scan failed.
xxx="$xxx ABRT ALRM BUS CANCEL CHLD CLD CONT DIL EMT FPE"
xxx="$xxx FREEZE HUP ILL INT IO IOT KILL LOST LWP PHONE"
xxx="$xxx PIPE POLL PROF PWR QUIT RTMAX RTMIN SEGV STKFLT STOP"
xxx="$xxx SYS TERM THAW TRAP TSTP TTIN TTOU URG USR1 USR2"
xxx="$xxx USR3 USR4 VTALRM WAITING WINCH WIND WINDOW XCPU XFSZ"
```

```
: generate a few handy files for later
$cat > signal.c <<'EOCP'
#include <sys/types.h>
#include <signal.h>
#include <stdio.h>
int main() {

/* Strange style to avoid deeply-nested #if/#else/#endif */
#ifndef NSIG
#  ifdef _NSIG
#    define NSIG (_NSIG)
#  endif
#endif

#ifndef NSIG
#  ifdef SIGMAX
#    define NSIG (SIGMAX+1)
#  endif
#endif

#ifndef NSIG
#  ifdef SIG_MAX
#
   define NSIG (SIG_MAX+1)
#  endif
#endif

#ifndef NSIG
#  ifdef MAXSIG
#    define NSIG (MAXSIG+1)
#  endif
#endif

#ifndef NSIG
#  ifdef MAX_SIG
#    define NSIG (MAX_SIG+1)
#  endif
#endif

#ifndef NSIG
#  ifdef SIGARRAYSIZE
#    define NSIG (SIGARRAYSIZE+1) /* Not sure of the +1 */
#  endif
#endif

#ifndef NSIG
#  ifdef _sys_nsig
#    define NSIG (_sys_nsig) /* Solaris 2.5 */
```

```
#  endif
#endif

/* Default to some arbitrary number that's big enough to get most
  of the common signals.
*/
#ifndef NSIG
#    define NSIG 50
#endif

printf("NSIG %d\n", NSIG);

#ifndef JUST_NSIG

EOCP

echo $xxx | $tr ' ' $trnl | $sort | $uniq | $awk '
{
 printf "#ifdef SIG"; printf $1; printf "\n"
 printf "printf(\""; printf $1; printf " %%d\\n\",SIG";
 printf $1; printf ");\n"
 printf "#endif\n"
}
END {
 printf "#endif /* JUST_NSIG */\n";
 printf "exit(0);\n}\n";
}
' >>signal.c
$cat >signal.awk <<'EOP'
BEGIN { ndups = 0 }
$1 ~ /^NSIG$/ { nsig = $2 }
($1 !~ /^NSIG$/) && (NF == 2) {
   if ($2 >
 maxsig) { maxsig = $2 }
   if (sig_name[$2]) {
 dup_name[ndups] = $1
 dup_num[ndups] = $2
 ndups++
   }
   else {
 sig_name[$2] = $1
 sig_num[$2] = $2
   }
}
END {
   if (nsig == 0) {
    nsig = maxsig + 1
   }
```

```
  printf("NSIG %d\n", nsig);
  for (n = 1; n < nsig; n++) {
 if (sig_name[n]) {
     printf("%s %d\n", sig_name[n], sig_num[n])
 }
 else {
     printf("NUM%d %d\n", n, n)
 }
  }
  for (n = 0; n < ndups; n++) {
 printf("%s %d\n", dup_name[n], dup_num[n])
  }
}
EOP
$cat >signal_cmd <<EOS
$startsh
if $test -s signal.lst; then
  echo "Using your existing signal.lst file"
 exit 0
fi
xxx="$xxx"
EOS
?X: Avoid variable interpolation problems, especially with
?X: xxx, which contains newlines.
$cat >>signal_cmd <<'EOS'

set signal
if eval $compile_ok; then
 $run ./signal$_exe | ($sort -n -k 2 2>/dev/null || $sort -n +1) |\
  $uniq | $awk -f signal.awk >signal.lst
else
 echo "(I can't seem be able to compile the whole test program)" >&4
 echo "(I'll try it in little
 pieces.)" >&4
 set signal -DJUST_NSIG
 if eval $compile_ok; then
  $run ./signal$_exe > signal.nsg
  $cat signal.nsg
 else
  echo "I can't seem to figure out how many signals you have." >&4
  echo "Guessing 50." >&4
  echo 'NSIG 50' > signal.nsg
 fi
 : Now look at all the signal names, one at a time.
 for xx in `echo $xxx | $tr ' ' $trnl | $sort | $uniq`; do
  $cat > signal.c <<EOCP
#include <sys/types.h>
#include <signal.h>
```

```
#include <stdio.h>
int main() {
printf("$xx %d\n", SIG${xx});
return 0;
}
EOCP
  set signal
  if eval $compile; then
   echo "SIG${xx} found."
   $run ./signal$_exe  >> signal.ls1
  else
   echo "SIG${xx} NOT found."
  fi
 done
 if $test -s signal.ls1; then
  $cat signal.nsg signal.ls1 |
   $sort -n | $uniq | $awk -f signal.awk >signal.lst
 fi

fi
if $test -s signal.lst; then
 :
else
 echo "(AAK! I can't compile the test programs -- Guessing)" >&4
 echo 'kill -l' >signal
 set X `csh -f <signal`
 $rm -f signal
 shift
 case $# in
 0) set HUP INT QUIT ILL TRAP ABRT
 EMT FPE KILL BUS SEGV SYS PIPE ALRM TERM;;
 esac
 echo $@ | $tr ' ' $trnl | \
     $awk '{ printf "%s %d\n", $1, ++s; }
    END { printf "NSIG %d\n", ++s }' >signal.lst
fi
$rm -f signal.c signal$_exe signal$_o signal.nsg signal.ls1
EOS
chmod a+x signal_cmd
$eunicefix signal_cmd
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Signal.U
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```
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:uidsign: Myread Typedef uidtype Compile run
?MAKE: -pick add $@ %<
?S:uidsign:
?S: This variable contains the signedness of a uidtype.
?S: 1 for unsigned, -1 for signed.
?S:.
?C:Uid_t_sign:
?C: This symbol holds the signedness of a Uid_t.
?C: 1 for unsigned, -1 for signed.
?C:.
?H:#define Uid_t_sign $uidsign  /* UID sign */
?H:.
?T:yyy zzz
?F:!try
: Check if UID is signed
echo " "
case "$uidtype" in
*_t) zzz="$uidtype" ;;
*)   zzz="uid"  ;;
esac
echo "Checking the sign of $zzz..." >&4
cat > try.c <<EOCP
#include <sys/types.h>
#include
 <stdio.h>
int main() {
 $uidtype foo = -1;
 if (foo < 0)
  printf("-1\n");
 else
  printf("1\n");
}
EOCP
set try
if eval $compile; then
 yyy=`$run ./try`
 case "$yyy" in
 ") uidsign=1
  echo "(I can't execute the test program--guessing unsigned.)" >&4
  ;;
 *) uidsign=$yyy
```

```
  case "$uidsign" in
   1) echo "Your $zzz is unsigned." ;;
  -1) echo "Your $zzz is signed."   ;;
  esac
  ;;
 esac
else
 uidsign=1
 echo "(I can't compile the test program--guessing unsigned.)" >&4
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/uidsign.U
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```
?RCS: $Id: inc_version_list.U,v $
?RCS:
?RCS: Copyright (c) 2000 Andy Dougherty
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: inc_version_list.U,v $
?RCS:
?MAKE:inc_version_list inc_version_list_init d_inc_version_list: cat sed \
 Getfile perl5 version api_versionstring rm Myread archname \
 prefix sitelib_stem exe_ext
?MAKE: -pick add $@ %<
?Y:TOP
?S:inc_version_list:
?S: This variable specifies the list of subdirectories in over
?S: which perl.c:incpush() and lib/lib.pm will automatically
?S: search when adding directories to @INC.  The elements in
?S: the list are separated by spaces.  This is only useful
?S: if
 you have a perl library directory tree structured like the
?S: default one.  See INSTALL for how this works.  The versioned
?S: site_perl directory was introduced in 5.005, so that is the
?S: lowest possible value.
?S:
?S: This list includes architecture-dependent directories back to
?S: version $api_versionstring (e.g. 5.5.640) and
?S: architecture-independent directories all the way back to
?S: 5.005.
```

```
?S:.
?S:inc_version_list_init:
?S: This variable holds the same list as inc_version_list, but
?S: each item is enclosed in double quotes and separated by commas,
?S: suitable for use in the PERL_INC_VERSION_LIST initialization.
?S:.
?S:d_inc_version_list:
?S: This variable conditionally defines PERL_INC_VERSION_LIST.
?S: It is set to undef when PERL_INC_VERSION_LIST is empty.
?S:.
?C:PERL_INC_VERSION_LIST:
?C: This variable specifies the list of subdirectories in over
?C: which perl.c:incpush() and lib/lib.pm will automatically
?C: search when adding directories to @INC, in a format suitable
?C: for
 a C initialization string.  See the inc_version_list entry
?C: in Porting/Glossary for more details.
?C:.
?H:#$d_inc_version_list PERL_INC_VERSION_LIST $inc_version_list_init  /**/
?H:.
?T:stem
: Determine list of previous versions to include in @INC
$cat > getverlist <<EOPL
#!$perl5
use strict;
use warnings;
use File::Basename;
my \$api_versionstring = "$api_versionstring";
my \$version = "$version";
my \$stem = "$sitelib_stem";
my \$archname = "$archname";
EOPL
 $cat >> getverlist <<'EOPL'
# The list found is stored twice for each entry: the original name, and
# the binary broken down version into pack "s>s>s>", so sorting is easy
# and unambiguous.  This will work for all versions that have a maximum
# of three digit per group separate by '.'s or '_'s. Names are extended
# with ".0.0" to ensure at least three elements for the pack.
#                                -- H.Merijn Brand (m)'06 23-10-2006

my @inc_version_list;
my @candidates;
# XXX Redo to do opendir/readdir?
if
 (-d $stem) {
   chdir($stem);
   ;@candidates = map {
 [ $_, pack "s>s>s>", split m/[._]/, "$_.0.0" ] } glob("5.*");
```

```
   ;@candidates = sort { $a->[1] cmp $b->[1]} @candidates;
}
else {
   ;@candidates = ();
}

my ($pversion, $aversion, $vsn5005) = map {
   pack "s>s>s>", split m/[._]/, "$_.0.0" } $version, $api_versionstring, "5.005";
foreach my $d (@candidates) {
   if ($d->[1] lt $pversion) {
 if ($d->[1] ge $aversion) {
     unshift(@inc_version_list, grep { -d } $d->[0]."/$archname", $d->[0]);
 }
 elsif ($d->[1] ge $vsn5005) {
     unshift(@inc_version_list, grep { -d } $d->[0]);
 }
   }
   else {
 # Skip newer version.  I.e. don't look in
 # 5.7.0 if we're installing 5.6.1.
   }
}

if (@inc_version_list) {
   print join(' ', @inc_version_list);
}
else {
   # Blank space to preserve value for next Configure run.
   print " ";
}
EOPL
chmod +x getverlist
case "$inc_version_list" in
") if test -x "$perl5$exe_ext"; then
  dflt=`$perl5 getverlist`
 else
  dflt='none'
 fi
 ;;
$undef)
 dflt='none' ;;
?X:     Configure -Dinc_version_list='5.6.0/$archname 5.6.0' ...
*)  eval dflt=\"$inc_version_list\" ;;
esac
case "$dflt" in
"|' ') dflt=none ;;
esac
case "$dflt" in
```

```
5.005) dflt=none ;;
esac
$cat <<EOM

In order to ease the process of upgrading, this version of perl
can be configured to use modules built and installed with earlier
versions of perl that were installed under $prefix.  Specify here
the list of earlier versions that this version of perl should check.
If Configure detected no earlier versions of perl installed under
$prefix, then the list will be empty.  Answer 'none' to tell perl
to not search earlier versions.

The default should almost always be sensible, so if you're not sure,
just accept the default.
EOM

rp='List of earlier versions to include in @INC?'
. ./myread
case "$ans" in
[Nn]one|''|' '|$undef) inc_version_list=' ' ;;
*) inc_version_list="$ans" ;;
esac
case "$inc_version_list" in
''|' ')
 inc_version_list_init='0'
 d_inc_version_list="$undef"
 ;;
*) inc_version_list_init=`echo
 $inc_version_list |
  $sed -e 's/^/"/' -e 's/ /","/g' -e 's/$/",0/'`
 d_inc_version_list="$define"
 ;;
esac
$rm -f getverlist
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/inc_version_list.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Instruct.U,v 3.0.1.3 1997/02/28 15:02:55 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Instruct.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:02:55  ram
?RCS: patch61: logname / whoami sequence rewritten to use case
?RCS:
?RCS: Revision 3.0.1.2  1995/02/15  14:11:34  ram
?RCS: patch51: author name now appears at the end of the paragraph (WED)
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:12:05  ram
?RCS: patch45: now documents the & escape to turn -d on at the read prompt
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:04  ram
?RCS: Baseline for
 dist 3.0 netwide release.
?RCS:
?X:
?X: This unit spew out the directions that we want everyone to read.  I try to
?X: keep the first "pagefull" much less than a page since they don't know it
?X: isn't going to go shooting off the top of the screen, and we don't want
?X: to panic them yet.
?X:
?MAKE:Instruct: Myread Configdir Devel contains
?MAKE: -pick wipe $@ %<
?T:user needman firsttime
: general instructions
needman=true
firsttime=true
user=`(logname) 2>/dev/null`
case "$user" in
") user=`whoami 2>&1`;;
esac
if $contains "^$user\$" ../.config/instruct >/dev/null 2>&1; then
 firsttime=false
 echo " "
 rp='Would you like to see the instructions?'
 dflt=n
 . ./myread
 case "$ans" in
 [yY]*) ;;
 *) needman=false;;
 esac
fi
if $needman; then
 cat <<EOH

This installation shell script will examine your system and ask you questions
to determine how the <PACKAGENAME> package should be installed. If you get
```

```
stuck on a question, you may use a ! shell escape to start a subshell or
execute a
 command.  Many of the questions will have default answers in square
brackets; typing carriage return will give you the default.

On some of the questions which ask for file or directory names you are allowed
to use the ~name construct to specify the login directory belonging to "name",
even if you don't have a shell which knows about that.  Questions where this is
allowed will be marked "(~name ok)".

EOH
 rp=''
 dflt='Type carriage return to continue'
 . ./myread
 cat <<'EOH'

The prompter used in this script allows you to use shell variables and
backticks in your answers.  You may use $1, $2, etc...  to refer to the words
in the default answer, as if the default line was a set of arguments given to a
script shell.  This means you may also use $* to repeat the whole default line,
so you do not have to re-type everything to add something to the default.

Every time there is a substitution, you will have to confirm.  If there is an
error (e.g. an unmatched backtick), the default answer
 will remain unchanged
and you will be prompted again.

If you are in a hurry, you may run 'Configure -d'.  This will bypass nearly all
the questions and use the computed defaults (or the previous answers if there
was already a config.sh file). Type 'Configure -h' for a list of options.
You may also start interactively and then answer '& -d' at any prompt to turn
on the non-interactive behaviour for the remainder of the execution.

EOH
 . ./myread
 cat <<EOH

Much effort has been expended to ensure that this shell script will run on any
Unix system.  If despite that it blows up on yours, your best bet is to edit
Configure and run it again.  If you can't run Configure for some reason,
you'll have to generate a config.sh file by hand.  Whatever problems you
have, let me (<MAINTLOC>) know how I blew it.

This installation script affects things in two ways:

1) it may do direct variable substitutions on some of the files included
  in this kit.
2) it builds a config.h file for inclusion in
```

```
 C programs.  You may edit
  any of these files as the need arises after running this script.

If you make a mistake on a question, there is no easy way to back up to it
currently.  The easiest thing to do is to edit config.sh and rerun all the SH
files.  Configure will offer to let you do this before it runs the SH files.

EOH
?X: In case they played with the prompter...
 dflt='Type carriage return to continue'
 . ./myread
 case "$firsttime" in
 true) echo $user >>../.config/instruct;;
 esac
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Instruct.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysparam.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysparam.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:22:43  ram
?RCS: patch32: created
?RCS:
?MAKE:i_sysparam: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysparam:
?S: This variable conditionally defines the I_SYS_PARAM symbol, and indicates
?S: whether a C program should include <sys/param.h>.
?S:.
?C:I_SYS_PARAM:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/param.h>.
?C:.
?H:#$i_sysparam I_SYS_PARAM  /**/
?H:.
?LINT:set
```

```
 i_sysparam
: see if this is a sys/param system
set sys/param.h i_sysparam
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sysparam.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2016 Dagfinn Ilmari Mannsker & H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_siginfo_si_errno d_siginfo_si_pid d_siginfo_si_uid d_siginfo_si_addr d_siginfo_si_status
d_siginfo_si_band d_siginfo_si_value d_siginfo_si_fd: d_sigaction pidtype uidtype Hasfield_t
?MAKE: -pick add $@ %<
?S:d_siginfo_si_errno:
?S: This variable conditionally defines the HAS_SIGINFO_SI_ERRNO symbol,
?S: which indicates that the siginfo_t struct has the si_errno member.
?S:.
?S:d_siginfo_si_pid:
?S: This variable conditionally defines the HAS_SIGINFO_SI_PID symbol,
?S: which indicates that the siginfo_t struct has the si_pid member.
?S:.
?S:d_siginfo_si_uid:
?S: This variable conditionally defines the HAS_SIGINFO_SI_UID symbol,
?S: which indicates that the siginfo_t struct has the si_uid member.
?S:.
?S:d_siginfo_si_addr:
?S: This
 variable conditionally defines the HAS_SIGINFO_SI_ADDR symbol,
?S: which indicates that the siginfo_t struct has the si_addr member.
?S:.
?S:d_siginfo_si_status:
?S: This variable conditionally defines the HAS_SIGINFO_SI_STATUS symbol,
?S: which indicates that the siginfo_t struct has the si_status member.
?S:.
?S:d_siginfo_si_band:
?S: This variable conditionally defines the HAS_SIGINFO_SI_BAND symbol,
?S: which indicates that the siginfo_t struct has the si_band member.
?S:.
?S:d_siginfo_si_value:
?S: This variable conditionally defines the HAS_SIGINFO_SI_VALUE symbol,
?S: which indicates that the siginfo_t struct has the si_value member.
?S:.
?S:d_siginfo_si_fd:
```

```
?S: This variable conditionally defines the HAS_SIGINFO_SI_FD symbol,
?S: which indicates that the siginfo_t struct has the si_fd member.
?S:.
?C:HAS_SIGINFO_SI_ERRNO:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_errno member
?C:.
?C:HAS_SIGINFO_SI_PID:
?C: This
 symbol, if defined, indicates that siginfo_t has the
?C: si_pid member
?C:.
?C:HAS_SIGINFO_SI_UID:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_uid member
?C:.
?C:HAS_SIGINFO_SI_ADDR:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_addr member
?C:.
?C:HAS_SIGINFO_SI_STATUS:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_status member
?C:.
?C:HAS_SIGINFO_SI_BAND:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_band member
?C:.
?C:HAS_SIGINFO_SI_VALUE:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_value member
?C:.
?C:HAS_SIGINFO_SI_FD:
?C: This symbol, if defined, indicates that siginfo_t has the
?C: si_fd member
?C:.
?H:#$d_siginfo_si_errno HAS_SIGINFO_SI_ERRNO /**/
?H:#$d_siginfo_si_pid HAS_SIGINFO_SI_PID /**/
?H:#$d_siginfo_si_uid HAS_SIGINFO_SI_UID /**/
?H:#$d_siginfo_si_addr HAS_SIGINFO_SI_ADDR /**/
?H:#$d_siginfo_si_status HAS_SIGINFO_SI_STATUS /**/
?H:#$d_siginfo_si_band HAS_SIGINFO_SI_BAND /**/
?H:#$d_siginfo_si_value HAS_SIGINFO_SI_VALUE /**/
?H:#$d_siginfo_si_fd HAS_SIGINFO_SI_FD /**/
?H:.
:
 see what siginfo fields we have
case "$d_sigaction" in
```

```
"$define")
 echo "Checking if your siginfo_t has si_errno field...">&4
 set d_siginfo_si_errno siginfo_t int si_errno $d_sigaction signal.h
 eval $hasfield_t;

 echo "Checking if your siginfo_t has si_pid field...">&4
 set d_siginfo_si_pid siginfo_t $pidtype si_pid $d_sigaction signal.h
 eval $hasfield_t;

 echo "Checking if your siginfo_t has si_uid field...">&4
 set d_siginfo_si_uid siginfo_t $uidtype si_uid $d_sigaction signal.h
 eval $hasfield_t;

 echo "Checking if your siginfo_t has si_addr field...">&4
 set d_siginfo_si_addr siginfo_t "void *" si_addr $d_sigaction signal.h
 eval $hasfield_t;

 echo "Checking if your siginfo_t has si_status field...">&4
 set d_siginfo_si_status siginfo_t int si_status $d_sigaction signal.h
 eval $hasfield_t;

 echo "Checking if your siginfo_t has si_band field...">&4
 set
 d_siginfo_si_band siginfo_t long si_band $d_sigaction signal.h
 eval $hasfield_t;

 echo "Checking if your siginfo_t has si_value field...">&4
 set d_siginfo_si_value siginfo_t "union sigval" si_value $d_sigaction signal.h
 eval $hasfield_t;

 echo "Checking if your siginfo_t has si_fd field...">&4
 set d_siginfo_si_fd siginfo_t int si_fd $d_sigaction signal.h
 eval $hasfield_t;

 ;;
*)
 d_siginfo_si_errno="$undef"
 d_siginfo_si_pid="$undef"
 d_siginfo_si_uid="$undef"
 d_siginfo_si_addr="$undef"
 d_siginfo_si_status="$undef"
 d_siginfo_si_band="$undef"
 d_siginfo_si_value="$undef"
 d_siginfo_si_fd="$undef"
 ;;
esac
```

Found in path(s):

* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_siginfo_si.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: shm_for.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: shm_for.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:28:37  ram
?RCS: patch36: call ./Cppsym explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:shm_for shm_att shm_lim: Cppsym Myread ipc uname
?MAKE: -pick add $@ %<
?S:shm_for:
?S: This variable tells us the type of machine we're expecting the
?S: shared memory code to run on.  The value is available to C
 programs
?S: in the C_SHM_FOR manifest.
?S:.
?S:shm_att:
?S: This variable tells us where a shared memory segment should be
?S: attached.  Good values are HIGH, LOW, and ZERO.
?S:.
?S:shm_lim:
?S: This variable tells us if shared memory attached HIGH should
?S: have an upper limit.
?S:.
?X: ----------------------------------------------------------
?X: It's a potential lose to define anything beginning with SHM...
?X: At least we can think that S_ stands for "String version of ..." -- HMS
?X: ----------------------------------------------------------
?C:S_SHM_FOR ~ %<:
?C: This symbol identifies what we chose for the target system's
?C: default shared memory configuration parameters.
?C:.
?C:S_SHM_ATT ~ %<:
?C: This symbol holds the default "place" to attach shared memory.
?C: Values are "HIGH", "ZERO", and "LOW".
```

```
?C:.
?C:S_SHM_LIM ~ %<:
?C: This symbol holds the default upper bound address limit if shared
?C: memory is attached HIGH.  If zero, there is no upper limit.
?C:.
?H:?%<:#ifdef
 SERVE_SHM
?H:?%<:#define S_SHM_FOR "$shm_for"
?H:?%<:#define S_SHM_ATT "$shm_att"
?H:?%<:#define S_SHM_LIM "$shm_lim"
?H:?%<:#endif
?H:.
?W:%<:S_SHM_FOR S_SHM_ATT S_SHM_LIM
: see how to attach shared memory
echo " "
echo "Deciding how to attach shared memory..." >&4

case "$ipc" in
shm)
 shm_for='Default case'
 shm_att='HIGH'
 shm_lim='0x0'
 if ./Cppsym tower32 tower32_600; then
  echo "NCR Towers are usually normal..."
  : echo "Oh, an NCR Tower."
  : This works for the 600
  shm_for='NCR Tower 32'
  shm_att='LOW'
 else
  case "$uname" in
  */uname)
   case "`uname -m`" in
   ACS??68*)
    echo "Oh, an Altos 3068."
    shm_for='Altos 3068:'
    shm_lim='0x800000'
    ;;
    esac
    ;;
  *)
   echo "Looks normal to me..."
   ;;
  esac
 fi

 dflt="$shm_for"
 rp='Description of shared memory configuration?'
 . ./myread
```

```
 shm_for="$ans"

 dflt="$shm_att"
 rp='Where should shared memory be attached?'
 . ./myread
 shm_att="$ans"

 case "$shm_att" in
 HIGH)
  dflt="$shm_lim"
  rp='What is
 the upper address limit for shared memory?'
  . ./myread
  shm_lim="$ans"
  ;;
 *)
  shm_lim=''
  ;;
 esac
 ;;

*)
 echo "but you aren't using shared memory so I won't bother." >&4
 shm_for='NOT CONFIGURED'
 shm_att='NONE'
 shm_lim='-1'
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/shm_for.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_safemcpy.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  15:41:12  ram
?RCS: patch61: improved overlapping copy check
?RCS: patch61: comfort them if they have memmove
```

```
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.4  1995/07/25  13:58:46  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.3  1995/03/21  08:47:26  ram
?RCS: patch52: swapped two first arguments of memcpy() calls
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:15:10
  ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:53:12  ram
?RCS: patch23: ensure string is not optimized in read-only memory (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_safemcpy: cat d_memcpy +cc +optimize +ccflags +libs +ldflags rm \
 d_memmove i_memory i_stdlib i_string i_unistd Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_safemcpy:
?S: This variable conditionally defines the HAS_SAFE_MEMCPY symbol if
?S: the memcpy() routine can do overlapping copies.
?S:.
?C:HAS_SAFE_MEMCPY (SAFE_MEMCPY):
?C: This symbol, if defined, indicates that the memcpy routine is available
?C: to copy potentially overlapping memory blocks. Otherwise you should
?C: probably use memmove() or memcpy(). If neither is defined, roll your
?C: own version.
?C:.
?H:#$d_safemcpy HAS_SAFE_MEMCPY /**/
?H:.
?F:!safemcpy
?LINT: set d_safemcpy
: can memcpy handle overlapping blocks?
?X:
 assume the worst
val="$undef"
case "$d_memcpy" in
"$define")
 echo " "
 echo "Checking to see if your memcpy() can do overlapping copies..." >&4
 $cat >foo.c <<EOCP
#$i_memory I_MEMORY
#$i_stdlib I_STDLIB
#$i_string I_STRING
#$i_unistd I_UNISTD
```

```
EOCP
 $cat >>foo.c <<'EOCP'
#include <stdio.h>
#ifdef I_MEMORY
#  include <memory.h>
#endif
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#ifdef I_STRING
#  include <string.h>
#else
#  include <strings.h>
#endif
#ifdef I_UNISTD
#  include <unistd.h>  /* Needed for NetBSD */
#endif
int main()
{
char buf[128], abc[128];
char *b;
int len;
int off;
int align;

/* Copy "abcde..." string to char abc[] so that gcc doesn't
  try to store the string in read-only memory. */
memcpy(abc, "abcdefghijklmnopqrstuvwxyz0123456789", 36);

for (align = 7; align >= 0; align--) {
 for (len = 36; len; len--) {
  b = buf+align;
  memcpy(b, abc, len);
  for (off = 1; off <= len; off++) {
   memcpy(b+off, b, len);
   memcpy(b, b+off, len);
   if (memcmp(b, abc, len))
    exit(1);
  }
 }
}
exit(0);
}
EOCP
 if
 $cc $optimize $ccflags $ldflags \
      -o safemcpy foo.c $libs >/dev/null 2>&1; then
  if ./safemcpy 2>/dev/null; then
```

```
  echo "Yes, it can."
  val="$define"
 else
  echo "It can't, sorry."
  case "$d_memmove" in
  "$define") echo "But that's Ok since you have memmove()." ;;
  esac
 fi
else
 echo "(I can't compile the test program, so we'll assume not...)"
 case "$d_memmove" in
 "$define") echo "But that's Ok since you have memmove()." ;;
 esac
fi
;;
esac
$rm -f foo.* safemcpy core
set d_safemcpy
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_safemcpy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: groupstype.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: groupstype.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:18:08  ram
?RCS: patch36: no longer uses Setvar to set 'groupstype' (ADO)
?RCS: patch36: typo fix in the word 'argument' (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:00:18  ram
?RCS: patch30: created by ADO
?RCS:
?MAKE:groupstype: gidtype d_getgrps Myread Oldconfig Findhdr cat d_setgrps
?MAKE: -pick add $@ %<
?INIT:groupstype="
```

```
?S:groupstype:
?S: This
 variable defines Groups_t to be something like gid_t, int,
?S: ushort, or whatever type is used for the second argument to
?S: getgroups() and setgroups().  Usually, this is the same as
?S: gidtype (gid_t), but sometimes it isn't.
?S:.
?C:Groups_t (GROUPSTYPE):
?C: This symbol holds the type used for the second argument to
?C: getgroups() and setgroups().  Usually, this is the same as
?C: gidtype (gid_t) , but sometimes it isn't.
?C: It can be int, ushort, gid_t, etc...
?C: It may be necessary to include <sys/types.h> to get any
?C: typedef'ed information.  This is only required if you have
?C: getgroups() or setgroups()..
?C:.
?H:?%<:#if defined(HAS_GETGROUPS) || defined(HAS_SETGROUPS)
?H:?%<:#define Groups_t $groupstype /* Type for 2nd arg to [sg]etgroups() */
?H:?%<:#endif
?H:.
?W:%<:getgroups HAS_GETGROUPS setgroups HAS_SETGROUPS
: Find type of 2nd arg to 'getgroups()' and 'setgroups()'
echo " "
case "$d_getgrps$d_setgrps" in
*define*)
 case
 "$groupstype" in
 ") dflt="$gidtype" ;;
 *)  dflt="$groupstype" ;;
 esac
 $cat <<EOM
What type of pointer is the second argument to getgroups() and setgroups()?
Usually this is the same as group ids, $gidtype, but not always.

EOM
 rp='What type pointer is the second argument to getgroups() and setgroups()?'
 . ./myread
 groupstype="$ans"
 ;;
*)  groupstype="$gidtype";;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/groupstype.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: yacc.U,v 3.0.1.1 1994/05/13 15:28:48 ram Exp $

```
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: yacc.U,v $
?RCS: Revision 3.0.1.1  1994/05/13  15:28:48  ram
?RCS: patch27: added byacc as another alternative (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:10:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:yacc yaccflags: Guess Myread Oldconfig byacc bison cat test _exe
?MAKE: -pick add $@ %<
?S:yacc:
?S: This variable holds the name of the compiler compiler we
?S: want to use in the Makefile. It can be yacc, byacc, or bison -y.
?S:.
?S:yaccflags:
?S: This
 variable contains any additional yacc flags desired by the
?S: user.  It is up to the Makefile to use this.
?S:.
?T:comp
: determine compiler compiler
case "$yacc" in
")
 dflt=yacc;;
*)
 dflt="$yacc";;
esac
echo " "
comp='yacc'
if $test -f "$byacc$_exe"; then
 dflt="$byacc"
 comp="byacc or $comp"
fi
if $test -f "$bison$_exe"; then
 comp="$comp or bison -y"
fi
rp="Which compiler compiler ($comp) shall I use?"
. ./myread
yacc="$ans"
case "$yacc" in
```

```
*bis*)
 case "$yacc" in
 *-y*) ;;
 *)
  yacc="$yacc -y"
  echo "(Adding -y option to bison to get yacc-compatible behavior.)"
  ;;
 esac
 ;;
esac

@if yaccflags
: see if we need extra yacc flags
dflt="$yaccflags"
case "$dflt" in
") dflt=none;;
esac
$cat <<EOH

Your yacc program may need extra flags to normally process the parser sources.
Do NOT specify any -d or -v flags here, since those are explicitly known
by the various Makefiles. However, if your machine has strange/undocumented
options (like -Sr# on SCO to specify the
 maximum number of grammar rules), then
please add them here.  To use no flags, specify the word "none".

EOH
rp="Any additional yacc flags?"
. ./myread
case "$ans" in
none) yaccflags=";;
*) yaccflags="$ans";;
esac

@end
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/yacc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
```

```
?MAKE:uselargefiles \
 ccflags_uselargefiles \
 ldflags_uselargefiles \
 libswanted_uselargefiles: \
 Myread Oldconfig Setvar test lseeksize fpossize \
 fpostype Compile echo n c cat lseektype rm_try run \
 use64bitint use64bitall i_stdlib
?MAKE: -pick add $@ %<
?Y:TOP
?S:uselargefiles:
?S: This variable conditionally defines the USE_LARGE_FILES symbol,
?S: and indicates that large file interfaces should be used when
?S: available.
?S:.
?S:ccflags_uselargefiles:
?S: This variable contains the compiler flags needed by large file builds
?S: and added to ccflags by hints files.
?S:.
?S:ldflags_uselargefiles:
?S: This variable contains the loader flags needed by large file builds
?S: and added to ldflags by
 hints files.
?S:.
?S:libswanted_uselargefiles:
?S: This variable contains the libraries needed by large file builds
?S: and added to ldflags by hints files.  It is a space separated list
?S: of the library names without the "lib" prefix or any suffix, just
?S: like libswanted..
?S:.
?C:USE_LARGE_FILES:
?C: This symbol, if defined, indicates that large file support
?C: should be used when available.
?C:.
?H:?%<:#ifndef USE_LARGE_FILES
?H:?%<:#$uselargefiles USE_LARGE_FILES  /**/
?H:?%<:#endif
?H:.
?INIT:ccflags_uselargefiles="
?INIT:ldflags_uselargefiles="
?INIT:libswanted_uselargefiles="
?T:yyy zzz
?F:!uselargefiles.cbu !try
?LINT:change lseeksize
?LINT:change fpossize
?LINT:extern uselfs
?LINT:use use64bitint
?LINT:use use64bitall
: Check for large file support
```

```
# Backward compatibility (uselfs is deprecated).
case "$uselfs" in
"$define"|true|[yY]*)
 cat <<EOM >&4

*** Configure -Duselfs is deprecated, using -Duselargefiles instead.
EOM
 uselargefiles="$define"
 ;;
esac

case "$lseeksize:$fpossize"
 in
8:8) cat <<EOM

You can have files larger than 2 gigabytes.
EOM
  val="$define" ;;
*)    case "$uselargefiles" in
  "$undef"|false|[nN]*) dflt='n' ;;
  *) dflt='y' ;;
  esac
  cat <<EOM

Perl can be built to understand large files (files larger than 2 gigabytes)
on some systems.  To do so, Configure can be run with -Duselargefiles.

If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
  rp='Try to understand large files, if available?'
  . ./myread
  case "$ans" in
  y|Y) val="$define" ;;
  *) val="$undef"  ;;
  esac
  ;;
esac
set uselargefiles
eval $setvar
: Look for a hint-file generated 'call-back-unit'.  If the
: user has specified that a large files perl is to be built,
: we may need to set or change some other defaults.
if $test -f uselargefiles.cbu; then
 echo "Your platform has some specific hints regarding large file builds, using them..."
 . ./uselargefiles.cbu
fi
case "$uselargefiles" in
"$define")
```

```
 if $test -f uselargefiles.cbu;
 then
  echo " "
  echo "Rechecking to see how big your file offsets are..." >&4
  $cat >try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
int main()
{
   printf("%d\n", (int)sizeof($lseektype));
   return(0);
}
EOCP
  set try
  if eval $compile_ok; then
   lseeksize=`$run ./try`
   $echo "Your file offsets are now $lseeksize bytes long."
  else
   dflt="$lseeksize"
   echo " "
   echo "(I can't seem to compile the test program.  Guessing...)"
   rp="What is the size of your file offsets (in bytes)?"
   . ./myread
   lseeksize="$ans"
  fi
  case "$fpostype" in
  *_t) zzz="$fpostype" ;;
  *)   zzz="fpos_t" ;;
  esac
  $echo $n "Rechecking the size of $zzz...$c" >&4
  $cat > try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() {
   printf("%d\n", (int)sizeof($fpostype));
   return(0);
}
EOCP
  set try
  if eval $compile_ok; then
   yyy=`$run ./try`
   dflt="$lseeksize"
   case "$yyy" in
   ") echo
```

```
 " "
    echo "(I can't execute the test program--guessing $fpossize.)" >&4
    ;;
   *) fpossize=$yyy
    echo " $fpossize bytes." >&4
    ;;
   esac
  else
   dflt="$fpossize"
   echo " "
   echo "(I can't compile the test program.  Guessing...)" >&4
   rp="What is the size of your file positions (in bytes)?"
   . ./myread
   fpossize="$ans"
  fi
  $rm_try
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/uselfs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_time.U,v 3.0.1.2 1995/07/25 14:07:43 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_time.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:07:43  ram
?RCS: patch56: typo fix, sytem -> system
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:16:38  ram
?RCS: patch36: now uses new Typedef unit to compute type information (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X: Maybe <sys/types.h> should be included?
?X:INC: i_systypes
?MAKE:d_time timetype: Csym Setvar Findhdr Myread Typedef
```

```
?MAKE: -pick
 add $@ %<
?S:d_time:
?S: This variable conditionally defines the HAS_TIME symbol, which indicates
?S: that the time() routine exists.  The time() routine is normally
?S: provided on UNIX systems.
?S:.
?S:timetype:
?S: This variable holds the type returned by time(). It can be long,
?S: or time_t on BSD sites (in which case <sys/types.h> should be
?S: included). Anyway, the type Time_t should be used.
?S:.
?C:HAS_TIME (TIMER):
?C: This symbol, if defined, indicates that the time() routine exists.
?C:.
?C:Time_t (TIMETYPE):
?C: This symbol holds the type returned by time(). It can be long,
?C: or time_t on BSD sites (in which case <sys/types.h> should be
?C: included).
?C:.
?H:#$d_time HAS_TIME  /**/
?H:#define Time_t $timetype  /* Time type */
?H:.
?LINT:set d_time
: see if time exists
echo " "
?X: MPE/iX needs this protection of hint values.
?X: See d_sterror.U for more explanation.
if test "X$d_time" = X -o X"$timetype" = X; then
   if set time val -f d_time; eval $csym; $val;
 then
  echo 'time() found.' >&4
  val="$define"
  rp="What is the type returned by time() on this system?"
  set time_t timetype long stdio.h sys/types.h
  eval $typedef_ask
   else
  echo 'time() not found, hope that will do.' >&4
  val="$undef"
  timetype='int';
   fi
   set d_time
   eval $setvar
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/d_time.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: MailAuthor.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: MailAuthor.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  15:04:41  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.4  1994/08/29  16:05:09  ram
?RCS: patch32: avoid message sending if they said no previously
?RCS:
?RCS: Revision 3.0.1.3  1993/10/16  13:47:30  ram
?RCS: patch12: now makes sure user-specified address is in Internet format
?RCS:
?RCS: Revision
 3.0.1.2  1993/09/13  15:48:49  ram
?RCS: patch10: reverted to original intent by the Author himself
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:38:38  ram
?RCS: patch7: now prompts user for its e-mail address
?RCS: patch7: no longer silent when mail has been sent
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:06  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?RCS:
?X:
?X: This unit asks the user to please send a message to the author.
?X: To force inclusion of this unit, you must add it's name to the
?X: dependancies on the MAKE line in your private copy of End.U.
?X: This allows a smart mailagent program to automatically let users know
?X: when their package is out of date, and to allow users to be notified of
?X: any future patches.
?X:
?MAKE:MailAuthor mailpatches notifypatches usermail: test cat mailer \
 package Myread patchlevel baserev rm rsrc Oldconfig Configdir
?MAKE: -pick wipe $@ %<
?S:mailpatches:
```

```
?S: Indicates whether the user would like future patches to be mailed
?S: directly
 to them.
?S:.
?S:notifypatches:
?S: Indicates whether the user would like notification of future patches
?S: mailed to them.
?S:.
?S:usermail:
?S: This variable is used internally by Configure to keep track of the
?S: user e-mail address, where notifications or patches should be sent.
?S: A '-' value means the return address will be extracted by parsing
?S: the mail headers.
?S:.
?T:opt mailpatches notifypatches atsh status
: notify author that his package is used
if $test -f ../.config/mailauthor &&
 cmp $rsrc/patchlevel.h ../.config/mailauthor >/dev/null 2>&1
then
 status="say that you're using $package";
 case "$mailpatches" in
 true) status='have patches mailed to you as they are issued';;
 esac
 case "$notifypatches" in
 true) status='be notified when new patches are issued';;
 esac
 $cat <<EOM

You have already sent the author of $package (<MAINTLOC>) mail to
$status. If you wish, you may modify
your previous request by sending a new mail with different options.

EOM
 rp='Should
 I send a status update to <MAINTLOC>?'
 dflt=n
else
 $cat <<EOM

If you are able to send mail to the Internet, the author of $package would
really appreciate you letting me send off a quick note, just to say that you've
tried it. The author is more likely to spend time maintaining $package if it's
known that many people are using it, and you can even ask to get sent new
patches automagically this way if you wish. To protect your privacy, all I'll
say in the mail is the version of $package that you're using.

EOM
 rp='Should I send mail to <MAINTLOC>?'
```

```
 dflt=y
?X: Ensure default is 'n' if question has been asked already, in case they
?X: run Configure -d next time and answered 'n' the first time. Therefore,
?X: an empty nomail will be created later on even if no mail is sent.
 $test -f ../.config/nomail && dflt=n
fi
. ./myread
case "$ans" in
[yY]*)
 echo " "
 echo "Great! Your cooperation is really appreciated."
 $cat <<EOM

Some braindead sites do not set a proper return
 address in the From: header of
their outgoing mail, making it impossible to reply to mail they generate.
If your site is broken in this way, write to your system administrator and get
it fixed!!! In the mean time, you can manually specify the Internet e-mail
address by which the author can get back to you, should there be a need to do
so. If manually specified, it should be something like "user@domain.top".
If your mail system generates addresses correctly, specify "none".

EOM
 case "$usermail" in
 '-'|'') dflt=none;;
 *) dflt="$usermail";;
 esac
 rp='Manually specify a return address to use:'
 . ./myread
 case "$ans" in
 none|*@*.*)
  case "$ans" in
  none) usermail='-';;
  *) usermail="$ans";;
  esac
  ;;
 *)
  echo "(Address does not look like an Internet one -- ignoring it.)"
?X:
?X: If we can't trust their mailer or their return address, it's highly
?X: suggested that they only register and don't ask to get anything from
?X: the author, since it's likely to bounce in null-land --
 RAM.
?X:
  usermail='-'
  mailpatches=false
  notifypatches=false
  ;;
```

```
 esac
 echo " "
 opt=''
 rp='Would you like to have new patches automatically mailed to you?'
 case "$mailpatches" in
 true) dflt=y;;
 *) dflt=n;;
 esac
 . ./myread
 case "$ans" in
 [yY]*) opt=' mailpatches'; mailpatches=true;;
 *)
  mailpatches=false
  echo " "
  rp='Ok, would you like to simply be notified of new patches?'
  case "$notifypatches" in
  false) dflt=n;;
  *) dflt=y;;
  esac
  . ./myread
  echo " "
  case "$ans" in
  [yY]*) opt=' notifypatches'; notifypatches=true;;
  *)
   echo "Fine, I'll simply say that you've tried it then."
   notifypatches=false
   ;;
  esac
  ;;
 esac
 echo "Sending mail to <MAINTLOC>..." >&4
?X: Bizarre hack here. We can't just put @SH in the hereis lines below, because
?X: metaconfig will interpret it as a command, and there's no quoting mechanism.
?X: Do it via a variable instead.
 atsh='@SH'
 $mailer <MAINTLOC> <<EOM >/dev/null 2>&1
Subject: Command
Precedence: junk
To: <MAINTLOC>

$atsh
 package $usermail $package $baserev $patchlevel$opt
EOM
 $rm -f ../.config/mailauthor ../.config/nomail
 cp $rsrc/patchlevel.h ../.config/mailauthor
 ;;
*)
 case "$dflt" in
```

```
 "y")
  echo "Oh well, maybe next time."
  cp /dev/null ../.config/nomail
  ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/MailAuthor.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_limits.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_limits.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:20  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_limits: Inhdr
?MAKE: -pick add $@ %<
?S:i_limits:
?S: This variable conditionally defines the I_LIMITS symbol, and indicates
?S: whether a C program may include <limits.h> to get symbols like WORD_BIT
?S: and friends.
?S:.
?C:I_LIMITS:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <limits.h> to
 get definition of symbols like WORD_BIT or
?C: LONG_MAX, i.e. machine dependant limitations.
?C:.
?H:#$i_limits I_LIMITS  /**/
?H:.
?LINT:set i_limits
: see if this is a limits.h system
set limits.h i_limits
eval $inhdr
```

Found in path(s):

* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_limits.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_ftello: Inlibc longsize
?MAKE: -pick add $@ %<
?S:d_ftello:
?S: This variable conditionally defines the HAS_FTELLO symbol, which
?S: indicates to the C program that the ftello() routine is available.
?S:.
?C:HAS_FTELLO:
?C: This symbol, if defined, indicates that the ftello routine is
?C: available to ftell beyond 32 bits (useful for ILP32 hosts).
?C:.
?H:#$d_ftello HAS_FTELLO  /**/
?H:.
?LINT:set d_ftello
: see if ftello exists
set ftello d_ftello
eval $inlibc
case "$longsize" in
8) echo "(Your long is 64 bits, so you could use ftell.)" ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_ftello.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS:
?X:
?X: This unit is just a quick shorthand for the compile command
?X: to be used in all the other metaconfig units.
?X:
?MAKE:Compile: +cc +optimize +ccflags +ldflags +libs
?MAKE: -pick add $@ %<
?LINT:define compile compile_ok
?V:compile compile_ok mc_file
?S:compile:
?S: This shell variable is used internally
 by Configure to provide
?S: a convenient shorthand for the typical compile command, namely
?S: $cc $optimize $ccflags $ldflags -o $1 $1.c $libs > /dev/null 2>&1
?S: Note that the output filename does _not_ include the _exe
?S: extension.  Instead we assume that the linker will be
?S: "helpful" and automatically appending the correct suffix.
?S: OS/2 users will apparently need to supply the -Zexe flag to
?S: get this behavior.
?S:
?S: To use this variable, say something like:
?S:  echo 'int main() { exit(0); }' > try.c
?S:  set try
?S:  if eval $compile; then
?S:   echo "success"   # and do whatever . . .
?S:  else
?S:   echo "failure"   # and do whatever . . .
?S:  fi
?S: To add extra flags cc flags (e.g. -DWHATEVER) just put them
?S: in $*, e.g.
?S:  set try -DTRY_THIS_FLAG
?S:.
?S:compile_ok:
?S: This shell variable is used internally by Configure to provide
?S: a convenient shorthand for the typical compile command that you
?S: expect to work ok.  It is the same as $compile,
 except we
?S: deliberately let the user see any error messages.
?S:.
: define a shorthand compile call
compile='
mc_file=$1;
shift;
$cc -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs > /dev/null 2>&1;'
: define a shorthand compile call for compilations that should be ok.
```

```
compile_ok='
mc_file=$1;
shift;
$cc -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs;'
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Compile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_scorfl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_scorfl.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_scorfl: cat Myread Oldconfig nametype Setvar
?MAKE: -pick add $@ %<
?S:d_scorfl:
?S: This variable conditionally defines the SCOREFULL symbol, which
?S: indicates to the C program that any scoreboard kept by the program
?S: should be kept on the basis of the user's full name as opposed to
?S: the user's login name.
?S:.
?C:SCOREFULL:
?C: This
 symbol, if defined, indicates that any scoreboard kept by the
?C: program should be kept on the basis of the user's full name as opposed
?C: to the user's login name.  If the user can change his full name he
?C: can enter multiple scores if this is defined.
?C:.
?H:#$d_scorfl SCOREFULL /**/
?H:.
?LINT:set d_scorfl
: see how they want the scoreboard kept
case "$d_scorfl" in
"$define") dflt=y ;;
*) dflt=n ;;
esac
case "$nametype" in
```

```
other) val="$undef" ;;
*)
 $cat <<'EOM'

The scoreboard can be kept with one score per login name, or one score per full
name.  If users can change their full name, or if there is more than one person
on your system with the same full name, you should keep the score by login name
(the full name is still printed).

EOM
 rp='Do you want the scoreboard kept by full name?'
 . ./myread
 case "$ans" in
 y*) val="$define" ;;
 *) val="$undef" ;;
 esac
 ;;
esac
set d_scorfl
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_scorfl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sysman.U,v 3.0.1.2 1994/06/20 07:08:43 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sysman.U,v $
?RCS: Revision 3.0.1.2  1994/06/20  07:08:43  ram
?RCS: patch30: now explicitly states that /usr/man/man1 is the default
?RCS: patch30: added /usr/local/man/man1 to the search list
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:13:50  ram
?RCS: patch10: added support for /local/man/man1 (WAD)
?RCS: patch10: added temporary syspath variable to cut down on line length
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:55  ram
?RCS: Baseline for dist 3.0 netwide
```

```
 release.
?RCS:
?MAKE:sysman: test Loc Oldconfig
?MAKE: -pick add $@ %<
?S:sysman:
?S: This variable holds the place where the manual is located on this
?S: system. It is not the place where the user wants to put his manual
?S: pages. Rather it is the place where Configure may look to find manual
?S: for unix commands (section 1 of the manual usually). See mansrc.
?S:.
?T:syspath
: determine where manual pages are on this system
echo " "
case "$sysman" in
")
 syspath='/usr/share/man/man1 /usr/man/man1'
 syspath="$syspath /usr/man/mann /usr/man/manl /usr/man/local/man1"
 syspath="$syspath /usr/man/u_man/man1"
 syspath="$syspath /usr/catman/u_man/man1 /usr/man/l_man/man1"
 syspath="$syspath /usr/local/man/u_man/man1 /usr/local/man/l_man/man1"
 syspath="$syspath /usr/man/man.L /local/man/man1 /usr/local/man/man1"
 sysman=`./loc . /usr/man/man1 $syspath`
 ;;
esac
if $test -d "$sysman"; then
 echo "System manual is in $sysman." >&4
else
 echo "Could not find manual pages in source form."
 >&4
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/sysman.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2016 Tony Cook
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:dtraceobject dtracexnolibs: usedtrace dtrace cc ccflags optimize \
  Compile cat rm_try
?MAKE: -pick add $@ %<
?S:dtraceobject:
?S: Whether we need to build an object file with the dtrace tool.
?S:.
?S:dtracexnolibs:
```

```
?S: Whether dtrace accepts -xnolibs.  If available we call dtrace -h
?S: and dtrace -G with -xnolibs to allow dtrace to run in a jail on
?S: FreeBSD.
?S:.
?F: !perldtrace.h
?T:xnolibs
: Probe whether dtrace builds an object, as newer Illumos requires an input
: object file that uses at least one of the probes defined in the .d file
case "$usedtrace" in
$define)
  case "$dtracexnolibs" in
  $define|true|[yY]*)
      dtracexnolibs=$define
 $dtrace -h -xnolibs -s ../perldtrace.d -o perldtrace.h
 ;;
  ' '|'')
       if $dtrace -h -xnolibs -s ../perldtrace.d -o perldtrace.h 2>&1 ; then
     dtracexnolibs=$define
     echo "Your dtrace accepts -xnolibs"
 elif $dtrace -h -s ../perldtrace.d -o perldtrace.h 2>&1 ; then
     dtracexnolibs=$undef
     echo "Your dtrace doesn't accept -xnolibs"
 else
          echo "Your dtrace doesn't work at all, try building without dtrace support" >&4
     exit 1
 fi
 ;;
  *)
      dtracexnolibs=$undef
 $dtrace -h -s ../perldtrace.d -o perldtrace.h
 ;;
  esac
  case $dtracexnolibs in
  $define) xnolibs=-xnolibs ;;
  *) xnolibs= ;;
  esac

  case "$dtraceobject" in
  $define|true|[yY]*)
      dtraceobject=$define
      ;;
  ' '|'')
      $cat >try.c <<EOM
#include "perldtrace.h"
int main(void) {
  PERL_LOADED_FILE("dummy");
  return 0;
}
```

```
EOM
	dtraceobject=$undef
	if $cc -c -o try.o $optimize $ccflags try.c \
		&& $dtrace -G $xnolibs -s ../perldtrace.d try.o >/dev/null 2>&1; then

	  dtraceobject=$define
	    echo "Your dtrace builds an object file"
	fi
	;;
    *) dtraceobject=$undef ;;
    esac
    $rm_try perldtrace.o perldtrace.h
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/dtraceobject.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2006-2007, H.Merijn Brand
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_snprintf d_vsnprintf : Inlibc Compile cat run rm_try
?MAKE: -pick add $@ %<
?S:d_snprintf:
?S: This variable conditionally defines the HAS_SNPRINTF symbol, which
?S: indicates to the C program that the snprintf () library function
?S: is available.
?S:.
?S:d_vsnprintf:
?S: This variable conditionally defines the HAS_VSNPRINTF symbol, which
?S: indicates to the C program that the vsnprintf () library function
?S: is available.
?S:.
?C:HAS_SNPRINTF:
?C: This symbol, if defined, indicates that the snprintf () library
?C: function
 is available for use.
?C:.
?C:HAS_VSNPRINTF:
?C: This symbol, if defined, indicates that the vsnprintf () library
?C: function is available for use.
?C:.
```

```
?H:#$d_snprintf HAS_SNPRINTF /**/
?H:#$d_vsnprintf HAS_VSNPRINTF /**/
?H:.
?F:!try
: see if snprintf exists
set snprintf d_snprintf
eval $inlibc

: see if vsnprintf exists
set vsnprintf d_vsnprintf
eval $inlibc

case "$d_snprintf-$d_vsnprintf" in
"$define-$define")
  $cat <<EOM
Checking whether your snprintf() and vsnprintf() work okay...
EOM
  $cat >try.c <<'EOCP'
/* v?snprintf testing logic courtesy of Russ Allbery.
* According to C99:
* - if the buffer is too short it still must be \0-terminated
* - if the buffer is too short the potentially required length
*   must be returned and not -1
* - if the buffer is NULL the potentially required length
*   must be returned and not -1 or core dump
*/
#include <stdio.h>
#include <stdarg.h>

char buf[2];

int test (char *format, ...)
{
  va_list args;
  int count;

  va_start
 (args, format);
  count = vsnprintf (buf, sizeof buf, format, args);
  va_end (args);
  return count;
}

int main ()
{
  return ((test ("%s", "abcd") == 4 && buf[0] == 'a' && buf[1] == '\0'
          && snprintf (NULL, 0, "%s", "abcd") == 4) ? 0 : 1);
}
```

```
EOCP
   set try
   if eval $compile; then
 `$run ./try`
 case "$?" in
 0) echo "Your snprintf() and vsnprintf() seem to be working okay." ;;
 *) cat <<EOM >&4
Your snprintf() and snprintf() don't seem to be working okay.
EOM
    d_snprintf="$undef"
    d_vsnprintf="$undef"
    ;;
 esac
   else
 echo "(I can't seem to compile the test program--assuming they don't)"
 d_snprintf="$undef"
 d_vsnprintf="$undef"
   fi
   $rm_try
   ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_snprintf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_newsadm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_newsadm.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:36:53  ram
?RCS: patch61: added Guess dependency
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:14:33  ram
?RCS: patch36: call ./eunice explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_newsadm newsadmin: cat contains Guess Setvar Myread Oldconfig
```

```
?MAKE: -pick add $@ %<
?S:d_newsadm:
?S: This variable
 conditionally defines the NEWS_ADMIN symbol, which
?S: indicates to the C program that there is a user who is in charge
?S: of news administration.
?S:.
?S:newsadmin:
?S: This variable holds the login name of the news administrator, if any.
?S:.
?C:NEWS_ADMIN (NEWSADMIN):
?C: This symbol, if defined, contains the login name of the news
?C: administrator.
?C:.
?H:#$d_newsadm NEWS_ADMIN "$newsadmin"  /**/
?H:.
?LINT:set d_newsadm
: get news administrator name
case "$newsadmin" in
")
 if $contains "^news:" /etc/passwd >/dev/null 2>&1 ; then
  dflt=news
 elif $contains "^usenet:" /etc/passwd >/dev/null 2>&1 ; then
  dflt=usenet
 elif ./eunice; then
  dflt=system
 else
  dflt=root
 fi
 ;;
*)
 dflt="$newsadmin"
 ;;
esac
$cat <<'EOM'

Many systems keep their news in a private directory, or have a non-superuser
in charge of administering news.  (If you don't have such a user, take the
default answer.)  I need the login name (not directory) which is used for
news administration.

EOM
rp="News
 admin login?"
. ./myread
newsadmin="$ans"
case "$newsadmin" in
root) val="$undef" ;;
```

```
*) val="$define" ;;
esac
set d_newsadm
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_newsadm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: fpostype.U,v 3.0.1.2 1994/08/29 16:20:52 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: fpostype.U,v $
?RCS: Revision 3.0.1.2  1994/08/29  16:20:52  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:59:59  ram
?RCS: patch30: created
?RCS:
?MAKE:fpostype: Myread Typedef
?MAKE: -pick add $@ %<
?S:fpostype:
?S: This variable defines Fpos_t to be something like fpos_t, long,
?S: uint, or whatever type is used to declare file positions in libc.
?S:.
?C:Fpos_t:
?C: This symbol holds
 the type used to declare file positions in libc.
?C: It can be fpos_t, long, uint, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Fpos_t $fpostype  /* File position type */
?H:.
?LINT:set fpostype
: see what type file positions are declared as in the library
rp="What is the type for file position used by fsetpos()?"
set fpos_t fpostype long stdio.h sys/types.h
eval $typedef_ask
```

Found in path(s):

* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/fpostype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_sendmsg: Inlibc
?MAKE: -pick add $@ %<
?S:d_sendmsg:
?S: This variable conditionally defines the HAS_SENDMSG symbol, which
?S: indicates to the C program that the sendmsg() routine is available.
?S:.
?C:HAS_SENDMSG:
?C: This symbol, if defined, indicates that the sendmsg routine is
?C: available to send structured socket messages.
?C:.
?H:#$d_sendmsg HAS_SENDMSG  /**/
?H:.
?LINT:set d_sendmsg
: see if sendmsg exists
set sendmsg d_sendmsg
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sendmsg.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setreuid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setreuid.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setreuid d_setresuid: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_setreuid:
?S: This variable conditionally defines HAS_SETREUID if setreuid() is
?S: available to change the real and effective uid of the current
?S: process.
?S:.
?S:d_setresuid:
?S: This variable conditionally defines HAS_SETREUID if setresuid() is
?S: available to change
 the real, effective and saved uid of the current
?S: process.
?S:.
?C:HAS_SETREUID (SETREUID):
?C: This symbol, if defined, indicates that the setreuid routine is
?C: available to change the real and effective uid of the current
?C: process.
?C:.
?C:HAS_SETRESUID (SETRESUID):
?C: This symbol, if defined, indicates that the setresuid routine is
?C: available to change the real, effective and saved uid of the current
?C: process.
?C:.
?H:#$d_setreuid HAS_SETREUID  /**/
?H:#$d_setresuid HAS_SETRESUID  /**/
?H:.
?LINT:set d_setreuid d_setresuid
: see if setreuid exists
set setreuid d_setreuid
eval $inlibc
set setresuid d_setresuid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setreuid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysun.U,v $
```

```
?RCS: Revision 3.0  1993/08/18  12:08:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit looks wether <inttypes.h> is available or not
?X:
?MAKE:i_inttypes: Inhdr
?MAKE: -pick add $@ %<
?S:i_inttypes:
?S: This variable conditionally defines I_INTTYPES, which indicates
?S: to the C program that it should include <inttypes.h> to get
?S: format conversions of integer types.
?S:.
?C:I_INTTYPES:
?C: This symbol, if defined, indicates to the C program that it should
?C: include
 <inttypes.h> to get format conversions of integer types.
?C:.
?H:#$i_inttypes I_INTTYPES  /**/
?H:.
?LINT:set i_inttypes
: see if this is a inttypes.h system
set inttypes.h i_inttypes
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_inttypes.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getgrent.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_getgrent.U,v $
?RCS:
?MAKE:d_getgrent: Inlibc
?MAKE: -pick add $@ %<
?S:d_getgrent:
?S: This variable conditionally defines the HAS_GETGRENT symbol, which
?S: indicates to the C program that the getgrent() routine is available
?S: for sequential access of the group database.
?S:.
?C:HAS_GETGRENT:
?C: This symbol, if defined, indicates that the getgrent routine is
```

```
?C: available for sequential access of the group database.
?C:.
?H:#$d_getgrent HAS_GETGRENT  /**/
?H:.
?LINT:set d_getgrent
: see if getgrent exists
set getgrent d_getgrent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_getgrent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ctime_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_ctime_r ctime_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_time i_systime extern_C
?MAKE: -pick add $@ %<
?S:d_ctime_r:
?S: This variable conditionally defines the HAS_CTIME_R symbol,
?S: which indicates to the C program that the ctime_r()
?S: routine is available.
?S:.
?S:ctime_r_proto:
?S: This variable encodes the prototype of ctime_r.
?S: It is zero if d_ctime_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_ctime_r
?S: is defined.
?S:.
?C:HAS_CTIME_R:
?C: This symbol, if defined, indicates that the ctime_r routine
?C: is available to ctime re-entrantly.
?C:.
?C:CTIME_R_PROTO:
?C: This
 symbol encodes the prototype of ctime_r.
?C: It is zero if d_ctime_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_ctime_r
?C: is defined.
?C:.
?H:#$d_ctime_r HAS_CTIME_R /**/
```

```
?H:#define CTIME_R_PROTO $ctime_r_proto /**/
?H:.
?T:try hdrs d_ctime_r_proto
: see if ctime_r exists
set ctime_r d_ctime_r
eval $inlibc
case "$d_ctime_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_time time.h $i_systime sys/time.h"
 case "$d_ctime_r_proto:$usethreads" in
 ":define") d_ctime_r_proto=define
  set d_ctime_r_proto ctime_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_ctime_r_proto" in
 define)
 case "$ctime_r_proto" in
 "|0) try='char* ctime_r(const time_t*, char*);'
 ./protochk "$extern_C $try" $hdrs && ctime_r_proto=B_SB ;;
 esac
 case "$ctime_r_proto" in
 "|0) try='char* ctime_r(const time_t*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && ctime_r_proto=B_SBI ;;
 esac
 case "$ctime_r_proto" in
 "|0) try='int ctime_r(const
 time_t*, char*);'
 ./protochk "$extern_C $try" $hdrs && ctime_r_proto=I_SB ;;
 esac
 case "$ctime_r_proto" in
 "|0) try='int ctime_r(const time_t*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && ctime_r_proto=I_SBI ;;
 esac
 case "$ctime_r_proto" in
 "|0) d_ctime_r=undef
  ctime_r_proto=0
  echo "Disabling ctime_r, cannot determine prototype." >&4 ;;
 * ) case "$ctime_r_proto" in
  REENTRANT_PROTO*) ;;
  *) ctime_r_proto="REENTRANT_PROTO_$ctime_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "ctime_r has no prototype, not using it." >&4 ;;
  esac
```

```
  d_ctime_r=undef
  ctime_r_proto=0
  ;;
 esac
 ;;
*) ctime_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_ctime_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getsent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_getsent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getsent: Inlibc
?MAKE: -pick add $@ %<
?S:d_getsent:
?S: This variable conditionally defines HAS_GETSERVENT if getservent() is
?S: available to look up network services in some data base or another.
?S:.
?C:HAS_GETSERVENT:
?C: This symbol, if defined, indicates that the getservent() routine is
?C: available to look up network services in some
 data base or another.
?C:.
?H:#$d_getsent HAS_GETSERVENT  /**/
?H:.
?LINT:set d_getsent
: see if getservent exists
set getservent d_getsent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/U/modified/d_getsent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vaproto.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Orginal Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: vaproto.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:17:16  ram
?RCS: patch16: definition of _V now appears only when needed
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:59  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:vaproto: prototype i_stdarg Setvar
?MAKE: -pick add $@ %<
?S:vaproto:
?S: This variable conditionally defines CAN_VAPROTO on systems supporting
?S: prototype
 declaration of functions with a variable number of
?S: arguments. See also prototype.
?S:.
?C:CAN_VAPROTO ~ %<:
?C: This variable is defined on systems supporting prototype declaration
?C: of functions with a variable number of arguments.
?C:.
?C:_V:
?C: This macro is used to declare function parameters in prototypes for
?C: functions with a variable number of parameters. Use double parentheses.
?C: For example:
?C:
?C:  int printf _V((char *fmt, ...));
?C:
?C: Remember to use the plain simple _() macro when declaring a function
?C: with no variable number of arguments, since it might be possible to
?C: have a non-effect _V() macro and still get prototypes via _().
?C:.
?H:?%<:#$vaproto CAN_VAPROTO /**/
?H:?_V:#ifdef CAN_VAPROTO
?H:?_V:#define _V(args) args
```

```
?H:?_V:#else
?H:?_V:#define _V(args) ()
?H:?_V:#endif
?H:.
?W:%<:_V
?LINT:set vaproto
: see if prototypes support variable argument declarations
echo " "
case "$prototype$i_stdarg" in
$define$define)
 echo "It appears we'll
 be able to prototype varargs functions." >&4
 val="$define"
 ;;
*)
 echo "Too bad... We won't be using prototyped varargs functions..." >&4
 val="$undef"
 ;;
esac
set vaproto
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/vaproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: gidtype.U,v 3.0.1.3 1994/08/29 16:21:44 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: gidtype.U,v $
?RCS: Revision 3.0.1.3  1994/08/29  16:21:44  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS: patch32: removed useless usage of Setvar (for now)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:21:07  ram
?RCS: patch27: added lint hint
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:01:51  ram
?RCS: patch23: protected gidtype setting via setvar (ADO)
?RCS: patch23: made Gid_t comment more explicit (ADO)
```

```
?RCS:
?RCS: Revision
 3.0  1993/08/18  12:08:11  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:gidtype: Myread Typedef Findhdr
?MAKE: -pick add $@ %<
?S:gidtype:
?S: This variable defines Gid_t to be something like gid_t, int,
?S: ushort, or whatever type is used to declare the return type
?S: of getgid().  Typically, it is the type of group ids in the kernel.
?S:.
?C:Gid_t (GIDTYPE):
?C: This symbol holds the return type of getgid() and the type of
?C: argument to setrgid() and related functions.  Typically,
?C: it is the type of group ids in the kernel. It can be int, ushort,
?C: gid_t, etc... It may be necessary to include <sys/types.h> to get
?C: any typedef'ed information.
?C:.
?H:#define Gid_t $gidtype  /* Type for getgid(), etc... */
?H:.
?T:xxx
: see what type gids are declared as in the kernel
echo " "
echo "Looking for the type for group ids returned by getgid()."
set gid_t gidtype xxx stdio.h sys/types.h
eval $typedef
case "$gidtype" in
xxx)
 xxx=`./findhdr sys/user.h`
 set `grep
 'groups\[NGROUPS\];' "$xxx" 2>/dev/null` unsigned short
 case $1 in
 unsigned) dflt="$1 $2" ;;
 *) dflt="$1" ;;
 esac
 ;;
*) dflt="$gidtype";;
esac
case "$gidtype" in
gid_t) echo "gid_t found." ;;
*) rp="What is the type for group ids returned by getgid()?"
 . ./myread
 gidtype="$ans"
 ;;
esac
```

Found in path(s):

* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/gidtype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_nextafter: Inlibc
?MAKE: -pick add $@ %<
?S:d_nextafter:
?S: This variable conditionally defines HAS_NEXTAFTER if nextafter()
?S: is available to return the next machine representable double from
?S: x in direction y.
?S:.
?C:HAS_NEXTAFTER:
?C: This symbol, if defined, indicates that the nextafter routine is
?C: available to return the next machine representable double from
?C: x in direction y.
?C:.
?H:#$d_nextafter HAS_NEXTAFTER  /**/
?H:.
?LINT:set d_nextafter
: see if nextafter exists
set nextafter d_nextafter
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_nextafter.U
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```
?RCS: $Id: floatsize.U,v 3.0.1.1 1994/10/29 16:17:09 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: floatsize.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:17:09  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:floatsize: cat rm Myread Compile run
?MAKE: -pick add $@ %<
?S:floatsize:
?S: This variable contains the value of the FLOATSIZE symbol, which
?S: indicates to the C program how many bytes there are in a float.
?S:.
?C:FLOATSIZE:
?C: This
 symbol contains the size of a float, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define FLOATSIZE $floatsize  /**/
?H:.
?F:!try
: check for length of float
echo " "
case "$floatsize" in
")
 echo "Checking to see how big your floating point numbers are..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
   printf("%d\n", (int)sizeof(float));
   exit(0);
}
EOCP
 set try
 if eval $compile_ok; then
  floatsize=`$run ./try`
 else
  dflt='4'
  echo "(I can't seem to compile the test program.  Guessing...)"
  rp="What is the size of a floating point number (in bytes)?"
  . ./myread
  floatsize="$ans"
 fi
 ;;
esac
$rm -f try.c try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/floatsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_dbm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_dbm.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:48:20  ram
?RCS: patch61: added I_RPCSVC_DBM check
?RCS:
?RCS: Revision 3.0.1.1  1995/05/12  12:16:05  ram
?RCS: patch54: made more robust by checking both header and lib (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_dbm i_rpcsvcdbm: Inhdr Inlibc Setvar
?MAKE: -pick add $@ %<
?S:i_dbm (d_odbm):
?S: This variable conditionally defines
 the I_DBM symbol, which
?S: indicates to the C program that <dbm.h> exists and should
?S: be included.
?S:.
?S:i_rpcsvcdbm:
?S: This variable conditionally defines the I_RPCSVC_DBM symbol, which
?S: indicates to the C program that <rpcsvc/dbm.h> exists and should
?S: be included.  Some System V systems might need this instead of <dbm.h>.
?S:.
?C:I_DBM (HAS_ODBM ODBM):
?C: This symbol, if defined, indicates that <dbm.h> exists and should
?C: be included.
?C:.
?C:I_RPCSVC_DBM:
?C: This symbol, if defined, indicates that <rpcsvc/dbm.h> exists and
?C: should be included.
?C:.
?H:#$i_dbm I_DBM /**/
?H:#$i_rpcsvcdbm I_RPCSVC_DBM /**/
?H:.
?T:d_dbmclose
?LINT:set i_dbm i_rpcsvcdbm
: see if dbm.h is available
?X: We might just have the header, not the library.
?X: We look for dbmclose() rather than dbminit() because
?X: some versions of SCO Unix have -ldbm, but are missing dbmclose(). -- ADO
```

```
?X: Some System V systems have <rpcsvc/dbm.h> instead of <dbm.h>.
: see if dbmclose exists
set dbmclose
 d_dbmclose
eval $inlibc

case "$d_dbmclose" in
$define)
 set dbm.h i_dbm
 eval $inhdr
 case "$i_dbm" in
 $define)
  val="$undef"
  set i_rpcsvcdbm
  eval $setvar
  ;;
 *) set rpcsvc/dbm.h i_rpcsvcdbm
  eval $inhdr
  ;;
 esac
 ;;
*) echo "We won't be including <dbm.h>"
 val="$undef"
 set i_dbm
 eval $setvar
 val="$undef"
 set i_rpcsvcdbm
 eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_dbm.U
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```
?RCS: $Id: d_wctomb.U 1 2006-08-24 12:32:52Z rmanfredi $
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
```

```
?RCS: $Log: d_wctomb.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:20:43  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_wctomb: Inlibc
?MAKE: -pick add $@ %<
?S:d_wctomb:
?S: This variable conditionally defines the HAS_WCTOMB symbol, which
?S: indicates to the C program that the wctomb() routine is available
?S: to convert a wide character to a multibyte.
?S:.
?C:HAS_WCTOMB (WCTOMB):
?C: This
 symbol, if defined, indicates that the wctomb routine is available
?C: to convert a wide character to a multibyte.
?C:.
?H:#$d_wctomb HAS_WCTOMB  /**/
?H:.
?LINT:set d_wctomb
: see if wctomb exists
set wctomb d_wctomb
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_wctomb.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:     b) the "Artistic License" which comes with dist, or
?RCS:     c) the GNU General Public License as published by the Free
?RCS:     Software Foundation; either version 1, or (at your option) any
?RCS:     later version (see the file "Copying" that comes with the
?RCS:     Perl distribution).
?RCS: Which one to use is your choice.
?RCS: See the U/README file.
?MAKE:d_builtin_add_overflow d_builtin_sub_overflow d_builtin_mul_overflow : Compile Setvar cat run rm_try
?MAKE: -pick add $@ %<
?S:d_builtin_add_overflow:
?S: This variable conditionally defines HAS_BUILTIN_ADD_OVERFLOW, which
?S: indicates that the compiler supports __builtin_add_overflow(x,y,&z)
?S: for safely adding x and y into z while checking for overflow.
?S:.
?S:d_builtin_sub_overflow:
?S: This
```

```
 variable conditionally defines HAS_BUILTIN_SUB_OVERFLOW, which
?S: indicates that the compiler supports __builtin_sub_overflow(x,y,&z)
?S: for safely subtracting y from x into z while checking for overflow.
?S:.
?S:d_builtin_mul_overflow:
?S: This variable conditionally defines HAS_BUILTIN_MUL_OVERFLOW, which
?S: indicates that the compiler supports __builtin_mul_overflow(x,y,&z)
?S: for safely multiplying x and y into z while checking for overflow.
?S:.
?C:HAS_BUILTIN_ADD_OVERFLOW:
?C: This symbol, if defined, indicates that the compiler supports
?C: __builtin_add_overflow for adding integers with overflow checks.
?C:.
?C:HAS_BUILTIN_SUB_OVERFLOW:
?C: This symbol, if defined, indicates that the compiler supports
?C: __builtin_sub_overflow for subtracting integers with overflow checks.
?C:.
?C:HAS_BUILTIN_MUL_OVERFLOW:
?C: This symbol, if defined, indicates that the compiler supports
?C: __builtin_mul_overflow for multiplying integers with overflow checks.
?C:.
?H:#$d_builtin_add_overflow
 HAS_BUILTIN_ADD_OVERFLOW /**/
?H:#$d_builtin_sub_overflow HAS_BUILTIN_SUB_OVERFLOW /**/
?H:#$d_builtin_mul_overflow HAS_BUILTIN_MUL_OVERFLOW /**/
?H:.
?F:!try
?LINT:set d_builtin_add_overflow d_builtin_sub_overflow d_builtin_mul_overflow
: Look for GCC-style __builtin_add_overflow
case "$d_builtin_add_overflow" in
")
  echo " "
  echo "Checking whether your compiler can handle __builtin_add_overflow ..." >&4
  $cat >try.c <<'EOCP'
int main(void) {
  const unsigned int uint_max = ~0u;
  int target_int = 0;
  if (__builtin_add_overflow(1, 2, &target_int) || target_int != 3) {
      return 1;
  }
  if (!__builtin_add_overflow((int)(uint_max >> 1), 1, &target_int)) {
      return 1;
  }
  if (!__builtin_add_overflow(uint_max, -1, &target_int)) {
      return 1;
  }
  return 0;
}
```

```
EOCP
  set try
  if eval $compile && $run ./try; then
      echo "Your C compiler supports __builtin_add_overflow."
      val="$define"
  else
      echo
 "Your C compiler doesn't seem to understand __builtin_add_overflow."
      val="$undef"
  fi
  ;;
*) val="$d_builtin_add_overflow" ;;
esac

set d_builtin_add_overflow
eval $setvar
$rm_try

: Look for GCC-style __builtin_sub_overflow
case "$d_builtin_sub_overflow" in
")
  echo " "
  echo "Checking whether your compiler can handle __builtin_sub_overflow ..." >&4
  $cat >try.c <<'EOCP'
int main(void) {
  const unsigned int uint_max = ~0u;
  int target_int = 0;
  if (__builtin_sub_overflow(1, -2, &target_int) || target_int != 3) {
      return 1;
  }
  if (!__builtin_sub_overflow(-(int)(uint_max >> 1), 2, &target_int)) {
      return 1;
  }
  if (!__builtin_sub_overflow(uint_max, 1, &target_int)) {
      return 1;
  }
  return 0;
}
EOCP
  set try
  if eval $compile && $run ./try; then
      echo "Your C compiler supports __builtin_sub_overflow."
      val="$define"
  else
      echo "Your C compiler doesn't seem to understand __builtin_sub_overflow."
       val="$undef"
  fi
  ;;
```

```
*) val="$d_builtin_sub_overflow" ;;
esac

set d_builtin_sub_overflow
eval $setvar
$rm_try

: Look for GCC-style __builtin_mul_overflow
case "$d_builtin_mul_overflow" in
")
  echo " "
  echo "Checking whether your compiler can handle __builtin_mul_overflow ..." >&4
  $cat >try.c <<'EOCP'
int main(void) {
  const unsigned int uint_max = ~0u;
  int target_int = 0;
  if (__builtin_mul_overflow(2, 3, &target_int) || target_int != 6) {
      return 1;
  }
  if (!__builtin_mul_overflow((int)(uint_max >> 1), 2, &target_int)) {
      return 1;
  }
  if (!__builtin_mul_overflow(uint_max, 1, &target_int)) {
      return 1;
  }
  return 0;
}
EOCP
  set try
  if eval $compile && $run ./try; then
      echo "Your C compiler supports __builtin_mul_overflow."
      val="$define"
  else
      echo "Your C compiler doesn't seem to understand __builtin_mul_overflow."
      val="$undef"
  fi
  ;;
*) val="$d_builtin_mul_overflow"
 ;;
esac

set d_builtin_mul_overflow
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_builtin_overflow.U

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```
?RCS: $Id: d_cbrt.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_cbrt.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_cbrt: Inlibc
?MAKE: -pick add $@ %<
?S:d_cbrt:
?S: This variable conditionally defines the HAS_CBRT symbol, which
?S: indicates to the C program that the cbrt() (cube root) function
?S: is available.
?S:.
?C:HAS_CBRT (CBRT):
?C: This symbol, if defined, indicates that the cbrt() (cube root)
?C: function is available.
?C:.
?H:#$d_cbrt HAS_CBRT /**/
?H:.
?LINT:set
 d_cbrt
: see if cbrt exists
set cbrt d_cbrt
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_cbrt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Oldconfig.U,v $
?RCS: Revision 3.0.1.10  1997/02/28  15:06:39  ram
?RCS: patch61: added support for src.U
?RCS: patch61: new OSNAME define
?RCS: patch61: can now sense new OSes
?RCS:
?RCS: Revision 3.0.1.9  1995/07/25  13:40:51  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.8  1995/05/12  12:04:18  ram
?RCS: patch54: config.sh reload logic now knows about new -K switch
?RCS: patch54: cleaned up and extended osvers for DEC OSF/1 (ADO)
?RCS: patch54: added MachTen detection
 (ADO)
?RCS:
?RCS: Revision 3.0.1.7  1995/02/15  14:13:41  ram
?RCS: patch51: adapted osvers computation for AIX (ADO)
?RCS:
?RCS: Revision 3.0.1.6  1995/01/30  14:27:15  ram
?RCS: patch49: unit Options.U now exports file optdef.sh, not a variable
?RCS: patch49: update code for myuname changed (WED)
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:15:36  ram
?RCS: patch45: added quotes around the INITPROG variable (ADO)
?RCS: patch45: allows variable overriding after config file loading
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  15:57:05  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: merged with the version used for perl5's Configure (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/05/06  14:24:17  ram
?RCS: patch23: added support for osf1 hints
?RCS: patch23: new support for solaris and i386 systems (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:05:02  ram
?RCS: patch16: added post-processing on myuname for Xenix targets
?RCS: patch16: message proposing config.sh
 defaults made consistent
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  15:56:32  ram
?RCS: patch10: force use of config.sh when -d option is used (WAD)
?RCS: patch10: complain about non-existent hint files (WAD)
?RCS: patch10: added Options dependency for fastread variable
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:12  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?X:
?X: This unit tries to remember what we did last time we ran Configure, mostly
?X: for the sake of setting defaults.
?X:
?MAKE:Oldconfig hint myuname osname osvers: Instruct Myread Checkcc \
 Mksymlinks Loc Options Tr src trnl ln uname sh awk sed test cat grep \
 rm lns tr n c contains targetarch
?MAKE: -pick wipe $@ %<
?S:myuname:
?S: The output of 'uname -a' if available, otherwise the hostname. On Xenix,
?S: pseudo variables assignments in the output are stripped, thank you. The
?S: whole thing is then lower-cased.
?S:.
?S:hint:
?S: Gives the type of hints used for previous answers. May be one of
?S: "default",
 "recommended" or "previous".
?S:.
?S:osname:
?S: This variable contains the operating system name (e.g. sunos,
?S: solaris, hpux, etc.).  It can be useful later on for setting
?S: defaults.  Any spaces are replaced with underscores.  It is set
?S: to a null string if we can't figure it out.
?S:.
?S:osvers:
?S: This variable contains the operating system version (e.g.
?S: 4.1.3, 5.2, etc.).  It is primarily used for helping select
?S: an appropriate hints file, but might be useful elsewhere for
?S: setting defaults.  It is set to " if we can't figure it out.
?S: We try to be flexible about how much of the version number
?S: to keep, e.g. if 4.1.1, 4.1.2, and 4.1.3 are essentially the
?S: same for this package, hints files might just be os_4.0 or
?S: os_4.1, etc., not keeping separate files for each little release.
?S:.
?C:OSNAME:
?C: This symbol contains the name of the operating system, as determined
?C: by Configure.  You shouldn't rely on it too much; the specific
?C: feature
 tests from Configure are generally more reliable.
?C:.
?C:OSVERS:
?C: This symbol contains the version of the operating system, as determined
?C: by Configure.  You shouldn't rely on it too much; the specific
?C: feature tests from Configure are generally more reliable.
?C:.
?H:#define OSNAME "$osname"  /**/
?H:#define OSVERS "$osvers"  /**/
```

```
?H:.
?F:!config.sh
?T:tmp tmp_n tmp_c tmp_sh file
?T:xxxxfile xxxfile xxfile xfile hintfile newmyuname
?T:tans _ isesix INITPROG DJGPP has_uname
?D:osname=''
?LINT:change n c sh
?LINT:extern hostarch
?LINT:change hostarch
: Determine the name of the machine
myuname=`$uname -a 2>/dev/null`
$test -z "$myuname" && myuname=`hostname 2>/dev/null`
?X: Special mention for Xenix, whose 'uname -a' gives us output like this:
?X:  sysname=XENIX
?X:  nodename=whatever
?X:  release=2.3.2 .. etc...
?X: Therefore, we strip all this variable assignment junk and remove all the
?X: new lines to keep the myuname variable sane... --RAM
myuname=`echo $myuname | $sed -e
 's/^[^=]*=//' -e 's/\//g' | \
 ./tr '[A-Z]' '[a-z]' | $tr $trnl ' '`
?X: Save the value we just computed to reset myuname after we get done here.
newmyuname="$myuname"
$test -f "$uname$_exe" && has_uname=y

: Guessing of the OS name -- half the following guesses are probably wrong...
: If you have better tests or hints, please send them to the metaconfig
: authors and to <MAINTLOC>
$test -f /irix && osname=irix
$test -f /xenix && osname=sco_xenix
$test -f /dynix && osname=dynix
$test -f /dnix && osname=dnix
$test -f /lynx.os && osname=lynxos
$test -f /unicos && osname=unicos && osvers=`$uname -r`
$test -f /unicosmk && osname=unicosmk && osvers=`$uname -r`
$test -f /unicosmk.ar && osname=unicosmk && osvers=`$uname -r`
$test -f /bin/mips && /bin/mips && osname=mips
$test -d /NextApps && set X `hostinfo | $grep 'NeXT Mach.*:' | \
 $sed -e 's/://' -e 's/\./_/'` && osname=next && osvers=$4
$test -d /usr/apollo/bin && osname=apollo
$test -f /etc/saf/_sactab && osname=svr4
$test -d /usr/include/minix
 && osname=minix
$test -f /system/gnu_library/bin/ar.pm && osname=vos
if $test -d /MachTen -o -d /MachTen_Folder; then
?X:  MachTen uname -a output looks like
?X:  xxx 4 0.0 Macintosh
?X:  MachTen /sbin/version output looks like
```

```
?X:  MachTen 4.0 Mon Aug 28 10:18:00 1995
?X:  MachTen 3.x had the 'version' command in /usr/etc/version.
 osname=machten
 if $test -x /sbin/version; then
  osvers=`/sbin/version | $awk '{print $2}' |
  $sed -e 's/[A-Za-z]$//'`
 elif $test -x /usr/etc/version; then
  osvers=`/usr/etc/version | $awk '{print $2}' |
  $sed -e 's/[A-Za-z]$//'`
 else
  osvers="$2.$3"
 fi
fi
$test -f /sys/posix.dll &&
 $test -f /usr/bin/what &&
 set X `/usr/bin/what /sys/posix.dll` &&
 $test "$3" = UWIN &&
 osname=uwin &&
 osvers="$5"
?X: If we have uname, we already computed a suitable uname -a output, correctly
?X: formatted for Xenix, and it lies in $myuname.
if $test "X$has_uname" != X; then
 set X $myuname
 shift
 case "$5" in
 fps*) osname=fps ;;
 mips*)
  case "$4"
 in
  umips) osname=umips ;;
  *) osname=mips ;;
  esac;;
 [23]100) osname=mips ;;
 next*) osname=next ;;
?X: Interactive Unix.
 i386*)
  tmp=`/bin/uname -X 2>/dev/null|awk '/3\.2v[45]/{ print $(NF) }'`
  if $test "$tmp" != "" -a "$3" = "3.2" -a -f '/etc/systemid'; then
   osname='sco'
   osvers=$tmp
  elif $test -f /etc/kconfig; then
   osname=isc
   if $test "$lns" = "$ln -s"; then
    osvers=4
   elif $contains _SYSV3 /usr/include/stdio.h > /dev/null 2>&1 ; then
    osvers=3
   elif $contains _POSIX_SOURCE /usr/include/stdio.h > /dev/null 2>&1 ; then
    osvers=2
```

```
  fi
 fi
 tmp=''
 ;;
?X: MS-DOS djgpp uname -a output looks like:
?X: ms-dos xxx 6 22 pc
?X:  $1 is the "dos flavor" (need not be "ms-dos").
?X:  $2 is the node name
?X:  $3 and $4 are version/subversion
?X:  $5 is always "pc", but that might not be unique to DJGPP.
?X: (e.g. Solaris_x86 has $5 = i86pc, which doesn't actually conflict,
?X: but it's close enought that I can easily imagine other vendors also
?X: using variants
 of pc* in $5.)
?X:  The "DJGPP" environment variable is always set when djgpp is active.
 pc*)
 if $test -n "$DJGPP"; then
  osname=dos
  osvers=djgpp
 fi
 ;;
 esac
 case "$1" in
 aix) osname=aix
?X: aix 4.1 uname -a output looks like
?X:  AIX  foo  1 4 000123456789
?X: where $4 is the major release number and $3 is the (minor) version.
?X: More detail on the version is available with the oslevel command.
?X: in 3.2.x, it output a string (see case statements below).  In 4.1,
?X: it puts out something like  4.1.1.0
 tmp=`( (oslevel) 2>/dev/null || echo "not found") 2>&1`
 case "$tmp" in
 'not found') osvers="$4"."$3" ;;
 '<3240'|'<>3240') osvers=3.2.0 ;;
 '=3240'|'>3240'|'<3250'|'<>3250') osvers=3.2.4 ;;
 '=3250'|'>3250') osvers=3.2.5 ;;
 *) osvers=$tmp;;
 esac
 ;;
 bsd386) osname=bsd386
 osvers=`$uname -r`
 ;;
 cygwin*) osname=cygwin
 osvers="$3"
 ;;
 *dc.osx) osname=dcosx
 osvers="$3"
 ;;
```

```
 dnix) osname=dnix
  osvers="$3"
  ;;
 domainos) osname=apollo
  osvers="$3"
  ;;
 dgux)
 osname=dgux
  osvers="$3"
  ;;
?X:  uname -a returns
?X:  DYNIX/ptx xxx 4.0 V4.1.2 i386
 dynixptx*) osname=dynixptx
  osvers=`echo "$4"|sed 's/^v//'`
  ;;
 freebsd) osname=freebsd
  osvers="$3" ;;
 genix) osname=genix ;;
?X: HP-UX uname -a gives something like
?X: HP-UX foobar B.10.20 A 9000/735 2016483812 two-user license
?X: Preserve the full 10.20 string instead of the previous plain '10'.
?X:  Thanks to Graham Barr.    --AD 6/30/1998
 hp*) osname=hpux
  osvers=`echo "$3" | $sed 's,.*\.\([0-9]*\.[0-9]*\),\1,'`
  ;;
 irix*) osname=irix
  case "$3" in
  4*) osvers=4 ;;
  5*) osvers=5 ;;
  *) osvers="$3" ;;
  esac
  ;;
 linux) osname=linux
  case "$3" in
  *) osvers="$3" ;;
  esac
  ;;
 MiNT) osname=mint
  ;;
 netbsd*) osname=netbsd
  osvers="$3"
  ;;
 news-os) osvers="$3"
  case "$3" in
  4*) osname=newsos4 ;;
  *) osname=newsos ;;
  esac
  ;;
```

```
next*) osname=next ;;
nonstop-ux) osname=nonstopux ;;
openbsd) osname=openbsd
   osvers="$3"
   ;;
POSIX-BC | posix-bc
) osname=posix-bc
 osvers="$3"
 ;;
powerux | power_ux | powermax_os | powermaxos | \
powerunix | power_unix) osname=powerux
 osvers="$3"
 ;;
qnx) osname=qnx
 osvers="$4"
 ;;
solaris) osname=solaris
 case "$3" in
 5*) osvers=`echo $3 | $sed 's/^5/2/g'` ;;
 *) osvers="$3" ;;
 esac
 ;;
sunos) osname=sunos
 case "$3" in
 5*) osname=solaris
  osvers=`echo $3 | $sed 's/^5/2/g'` ;;
 *) osvers="$3" ;;
 esac
 ;;
titanos) osname=titanos
 case "$3" in
 1*) osvers=1 ;;
 2*) osvers=2 ;;
 3*) osvers=3 ;;
 4*) osvers=4 ;;
 *) osvers="$3" ;;
 esac
 ;;
ultrix) osname=ultrix
 osvers="$3"
 ;;
osf1|mls+) case "$5" in
 alpha)
?X: DEC OSF/1 myuname -a output looks like:  osf1 xxxx t3.2 123.4 alpha
?X: where the version number can be something like [xvt]n.n
   osname=dec_osf
?X: sizer knows the minor minor version: the letter
   osvers=`sizer -v | awk '{print $3}' | \
```

```
   ./tr '[A-Z]' '[a-z]' | sed 's/^[xvt]//'`
  case "$osvers" in
  [1-9].[0-9]*) ;;
  *) osvers=`echo
"$3" | sed 's/^[xvt]//'` ;;
  esac
  ;;
 hp*) osname=hp_osf1 ;;
 mips) osname=mips_osf1 ;;
?X: hp and mips were unsupported Technology Releases -- ADO, 24/10/94
 esac
 ;;
unixware) osname=svr5
 osvers="$4"
 ;;
uts) osname=uts
 osvers="$3"
 ;;
vos) osvers="$3"
 ;;
$2) case "$osname" in
 *isc*) ;;
 *freebsd*) ;;
 svr*)
  : svr4.x or possibly later
  case "svr$3" in
  ${osname}*)
   osname=svr$3
   osvers=$4
   ;;
  esac
  case "$osname" in
  svr4.0)
   : Check for ESIX
   if $test -f /stand/boot ; then
    eval `$grep '^INITPROG=[a-z/0-9]*$' /stand/boot`
    if $test -n "$INITPROG" -a -f "$INITPROG"; then
     isesix=`strings -a $INITPROG | \
      $grep 'ESIX SYSTEM V/386 Release 4.0'`
     if $test -n "$isesix"; then
      osname=esix4
     fi
    fi
   fi
   ;;
  esac
  ;;
 *) if $test -f /etc/systemid; then
```

```
    osname=sco
    set `echo $3 | $sed 's/\./ /g'` $4
    if $test -f $src/hints/sco_$1_$2_$3.sh; then
     osvers=$1.$2.$3
    elif $test
 -f $src/hints/sco_$1_$2.sh; then
     osvers=$1.$2
    elif $test -f $src/hints/sco_$1.sh; then
     osvers=$1
    fi
   else
    case "$osname" in
    ") : Still unknown.  Probably a generic Sys V.
     osname="sysv"
     osvers="$3"
     ;;
    esac
   fi
   ;;
  esac
  ;;
 *) case "$osname" in
  ") : Still unknown.  Probably a generic BSD.
   osname="$1"
   osvers="$3"
   ;;
  esac
  ;;
 esac
else
?X: Try to identify sony's NEWS-OS (BSD unix)
 if $test -f /vmunix -a -f $src/hints/news_os.sh; then
  (what /vmunix | UU/tr '[A-Z]' '[a-z]') > UU/kernel.what 2>&1
  if $contains news-os UU/kernel.what >/dev/null 2>&1; then
   osname=news_os
  fi
  $rm -f UU/kernel.what
?X: Maybe it's OS/2 or DOS or something similar
 elif $test -d c:/.; then
  set X $myuname
  osname=os2
  osvers="$5"
 fi
fi

: Try to determine whether config.sh was made on this system
case "$config_sh" in
")
```

```
?X: indentation wrong on purpose--RAM
dflt=n
case "$knowitall" in
")
 if test -f ../config.sh; then
  if $contains
 myuname= ../config.sh >/dev/null 2>&1; then
   eval "`$grep myuname= ../config.sh`"
  fi
  if test "X$myuname" = "X$newmyuname"; then
   dflt=y
  fi
 fi
 ;;
*) dflt=y;;
esac

: Get old answers from config file if it was generated on the same system
hint=default
if $test -f ../config.sh; then
 echo " "
 rp="I see a config.sh file.  Shall I use it to set the defaults?"
 . ./myread
 case "$ans" in
 n*|N*) echo "OK, I'll ignore it."
  mv ../config.sh ../config.sh.old
  myuname="$newmyuname"
  ;;
 *)  echo "Fetching default answers from your old config.sh file..." >&4
  tmp_n="$n"
  tmp_c="$c"
  tmp_sh="$sh"
  . ../config.sh
  cp ../config.sh .
  n="$tmp_n"
  c="$tmp_c"
  hint=previous
  ;;
 esac
fi
?X: remember, case indentation is wrong--RAM
;;
*)
 echo " "
 echo "Fetching default answers from $config_sh..." >&4
 tmp_n="$n"
 tmp_c="$c"
 tmp_sh="$sh"
```

```
 cd ..
?X: preserve symbolic links, if any
 cp $config_sh config.sh 2>/dev/null
 chmod +w config.sh
 . ./config.sh
 cd UU
 cp ../config.sh
 .
 n="$tmp_n"
 c="$tmp_c"
 hint=previous
 ;;
esac
?X: Older versions did not always set $sh.
case "$sh" in
") sh="$tmp_sh" ;;
esac
$test "$override" && . ./optdef.sh

: Restore computed paths
for file in $loclist $trylist; do
 eval $file="\$_$file"
done

. ./checkcc
?X: Cross-compiling support
case "$targetarch" in
") ;;
*)  hostarch=$osname
 osname=`echo $targetarch|sed 's,^[^-]*-,,'`
 osvers=''
 ;;
esac

@if {test -d ../hints}
: Offer them some hints based on their OS
cd ..
?X: Since we are now at the root of the source tree, we must use $src
?X: to access the sources and not $rsrc. See src.U for details...
if $test ! -f config.sh; then
 $cat <<EOM

First time through, eh?  I have some defaults handy for some systems
that need some extra help getting the Configure answers right:

EOM
 (cd $src/hints; ls -C *.sh) | $sed 's/\.sh/   /g' >&4
 dflt=''
```

```
: Now look for a hint file osname_osvers, unless one has been
: specified already.
case "$hintfile" in
"|' ')
 file=`echo "${osname}_${osvers}"
| $sed -e 's%\.%_%g' -e 's%_$%%'`
 : Also try without trailing minor version numbers.
 xfile=`echo $file | $sed -e 's%_[^_]*$%%'`
 xxfile=`echo $xfile | $sed -e 's%_[^_]*$%%'`
 xxxfile=`echo $xxfile | $sed -e 's%_[^_]*$%%'`
 xxxxfile=`echo $xxxfile | $sed -e 's%_[^_]*$%%'`
 case "$file" in
 ") dflt=none ;;
 *)  case "$osvers" in
  ") dflt=$file
   ;;
  *)  if $test -f $src/hints/$file.sh ; then
    dflt=$file
   elif $test -f $src/hints/$xfile.sh ; then
    dflt=$xfile
   elif $test -f $src/hints/$xxfile.sh ; then
    dflt=$xxfile
   elif $test -f $src/hints/$xxxfile.sh ; then
    dflt=$xxxfile
   elif $test -f $src/hints/$xxxxfile.sh ; then
    dflt=$xxxxfile
   elif $test -f "$src/hints/${osname}.sh" ; then
    dflt="${osname}"
   else
    dflt=none
   fi
   ;;
  esac
  ;;
 esac
 if $test -f Policy.sh ; then
  case "$dflt" in
  *Policy*) ;;
  none) dflt="Policy" ;;
  *) dflt="Policy $dflt" ;;
  esac
 fi
 ;;
*)
 dflt=`echo
$hintfile | $sed 's/\.sh$//'`
 ;;
```

```
esac

if $test -f Policy.sh ; then
 $cat <<EOM

There's also a Policy hint file available, which should make the
site-specific (policy) questions easier to answer.
EOM

fi

$cat <<EOM

You may give one or more space-separated answers, or "none" if appropriate.
A well-behaved OS will have no hints, so answering "none" or just "Policy"
is a good thing.  DO NOT give a wrong version or a wrong OS.

EOM

rp="Which of these apply, if any?"
. UU/myread
tans=$ans
for file in $tans; do
 if $test X$file = XPolicy -a -f Policy.sh; then
  . Policy.sh
  $cat Policy.sh >> UU/config.sh
 elif $test -f $src/hints/$file.sh; then
  . $src/hints/$file.sh
  $cat $src/hints/$file.sh >> UU/config.sh
 elif $test X"$tans" = X -o X"$tans" = Xnone ; then
  : nothing
 else
  : Give one chance to correct a possible typo.
  echo "$file.sh does not exist"
  dflt=$file
  rp="hint to use instead?"
  . UU/myread
  for file in $ans; do
   if $test -f "$src/hints/$file.sh";
then
    . $src/hints/$file.sh
    $cat $src/hints/$file.sh >> UU/config.sh
   elif $test X$ans = X -o X$ans = Xnone ; then
    : nothing
   else
    echo "$file.sh does not exist -- ignored."
   fi
  done
```

```
  fi
 done

 hint=recommended
 : Remember our hint file for later.
 if $test -f "$src/hints/$file.sh" ; then
  hintfile="$file"
 else
  hintfile=''
 fi
fi
cd UU
?X: From here on, we must use $rsrc instead of $src

@end
: Process their -A options
. ./posthint.sh

@if osname || osvers
: Ask them to confirm the OS name
cat << EOM

Configure uses the operating system name and version to set some defaults.
The default value is probably right if the name rings a bell. Otherwise,
since spelling matters for me, either accept the default or answer "none"
to leave it blank.

EOM
@end
@if osname
case "$osname" in
 ''|' ')
  case "$hintfile" in
  ''|' '|none) dflt=none ;;
  *)  dflt=`echo $hintfile | $sed -e 's/\.sh$//' -e 's/_.*$//'` ;;
  esac
  ;;
 *) dflt="$osname" ;;
esac
rp="Operating
 system name?"
. ./myread
case "$ans" in
none)  osname='' ;;
*) osname=`echo "$ans" | $sed -e 's/[  ][ ]*/_/g' | ./tr '[A-Z]' '[a-z]'`;;
esac
@end
@if osvers
```

```
@if osname
echo " "
@end
case "$osvers" in
 "|' ')
  case "$hintfile" in
  "|' '|none) dflt=none ;;
  *) dflt=`echo $hintfile | $sed -e 's/\.sh$//' -e 's/^[^_]*//'`
   dflt=`echo $dflt | $sed -e 's/^_//' -e 's/_/./g'`
   case "$dflt" in
   "|' ') dflt=none ;;
   esac
   ;;
  esac
  ;;
 *) dflt="$osvers" ;;
esac
rp="Operating system version?"
. ./myread
case "$ans" in
none)  osvers=" ;;
*) osvers="$ans" ;;
esac

@end
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Oldconfig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: ccflags.U,v $
?RCS: Revision 3.0.1.9  1997/02/28  15:27:07  ram
?RCS: patch61: removed support for NO_PROTOTYPE detection on SCO
?RCS: patch61: new locincpth variable
?RCS: patch61: added info on the "additional ld flags" question
?RCS:
?RCS: Revision 3.0.1.8  1995/07/25  13:48:54  ram
```

```
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.7  1995/05/12  12:08:33  ram
?RCS: patch54: now checks for cc/ccflags/ldflags coherency
?RCS:
?RCS: Revision 3.0.1.6
  1994/10/29  16:07:02  ram
?RCS: patch36: gcc versioning no longer relies on the C compiler's name
?RCS: patch36: simplified check for gcc version checking (ADO)
?RCS:
?RCS: Revision 3.0.1.5  1994/08/29  16:06:35  ram
?RCS: patch32: propagate -posix flag from ccflags to ldflags
?RCS:
?RCS: Revision 3.0.1.4  1994/05/06  14:28:45  ram
?RCS: patch23: -fpcc-struct-return only needed in gcc 1.x (ADO)
?RCS: patch23: cppflags now computed on an option-by-option basis
?RCS: patch23: magically added cc flags now only done the first time
?RCS:
?RCS: Revision 3.0.1.3  1993/09/13  15:58:29  ram
?RCS: patch10: explicitly mention -DDEBUG just in case they need it (WAD)
?RCS: patch10: removed all the "tans" variable usage (WAD)
?RCS:
?RCS: Revision 3.0.1.2  1993/08/27  14:39:38  ram
?RCS: patch7: added support for OSF/1 machines
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:00:24  ram
?RCS: patch6: added defaults for cppflags, ccflags and ldflags
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:31  ram
?RCS:
 Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:ccflags ldflags lkflags cppflags optimize locincpth: test cat \
 Myread Guess Options Oldconfig gccversion mips_type +usrinc \
 package contains rm rm_try +cc cppstdin cppminus cpprun cpplast libpth \
 loclibpth hint
?MAKE: -pick add $@ %<
?S:ccflags:
?S: This variable contains any additional C compiler flags desired by
?S: the user.  It is up to the Makefile to use this.
?S:.
?S:cppflags:
?S: This variable holds the flags that will be passed to the C pre-
?S: processor. It is up to the Makefile to use it.
?S:.
?S:optimize:
?S: This variable contains any optimizer/debugger flag that should be used.
?S: It is up to the Makefile to use it.
```

```
?S:.
?S:ldflags:
?S: This variable contains any additional C loader flags desired by
?S: the user.  It is up to the Makefile to use this.
?S:.
?S:lkflags:
?S: This variable contains any additional C partial linker flags desired by
?S: the user.  It is up to the Makefile to use this.
?S:.
?S:locincpth:
?S: This
 variable contains a list of additional directories to be
?S: searched by the compiler.  The appropriate -I directives will
?S: be added to ccflags.  This is intended to simplify setting
?S: local directories from the Configure command line.
?S: It's not much, but it parallels the loclibpth stuff in libpth.U.
?S:.
?T:inctest thisincl xxx flag inclwanted ftry previous thislibdir
?F:!cpp.c
?D:cppflags=''
?D:ccflags=''
?D:ldflags=''
?D:optimize=''
?INIT:: Possible local include directories to search.
?INIT:: Set locincpth to "" in a hint file to defeat local include searches.
?INIT:locincpth="/usr/local/include /opt/local/include /usr/gnu/include"
?INIT:locincpth="$locincpth /opt/gnu/include /usr/GNU/include /opt/GNU/include"
?INIT::
?INIT:: no include file wanted by default
?INIT:inclwanted=''
?INIT:
: determine optimize, if desired, or use for debug flag also
case "$optimize" in
' '|$undef) dflt='none';;
'')
 case "$gccversion" in
 '') dflt='-O';;
 *) dflt='-O2 -g';;
 esac
 ;;
*)
 dflt="$optimize";;
esac
case "$gccversion" in
'') $cat <<EOH

Some C compilers have problems with their optimizers.  By default, $package
compiles with the -O flag to use the optimizer.  Alternately, you might want
```

```
to use the symbolic debugger, which uses the -g flag (on traditional Unix
systems).  Either flag can be specified here.  To use neither flag, specify
the word "none".

EOH
 ;;
*) $cat <<EOH

With the GNU C compiler, it is possible to supply both -O2 and -g flags, to
be able to reasonably optimize, whilst retaining the ability to use a
symbolic debugger.  Either flag can be specified here.  To use neither flag,
specify the word "none".

EOH
 ;;
esac
rp="What optimizer/debugger flag should be used?"
. ./myread
optimize="$ans"
case "$optimize" in
'none') optimize=" ";;
esac

dflt="
: We will not override a previous value, but we might want to
: augment a hint file
case "$hint" in
default|recommended)
 case "$gccversion" in
 1*) dflt='-fpcc-struct-return' ;;
 esac
?X:
 check for POSIXized ISC
 case "$gccversion" in
 2*) if test -d /etc/conf/kconfig.d &&
   $contains _POSIX_VERSION $usrinc/sys/unistd.h >/dev/null 2>&1
  then
   dflt="$dflt -posix"
  fi
  ;;
 esac
?X: turn warnings on if they're using gcc
 case "$gccversion" in
 1*|2*) dflt="$dflt -Wall";;
?X: starting with version 3, add "-W -Wall -Wformat=2 -Wshadow" by default
 *) dflt="$dflt -W -Wall -Wformat=2 -Wshadow";;
 esac
 ;;
```

```
esac

?X: In USG mode, a MIPS system may need some BSD includes
case "$mips_type" in
*BSD*|") inclwanted="$locincpth $usrinc";;
*) inclwanted="$locincpth $inclwanted $usrinc/bsd";;
esac
for thisincl in $inclwanted; do
 if $test -d $thisincl; then
  if $test x$thisincl != x$usrinc; then
   case "$dflt" in
   *$thisincl*);;
   *) dflt="$dflt -I$thisincl";;
   esac
  fi
 fi
done

?X: Include test function (header, symbol)
inctest='if $contains $2 $usrinc/$1 >/dev/null 2>&1; then
 xxx=true;
elif $contains $2 $usrinc/sys/$1 >/dev/null 2>&1; then
 xxx=true;
else
 xxx=false;
fi;
if
 $xxx; then
 case "$dflt" in
 *$2*);;
 *) dflt="$dflt -D$2";;
 esac;
fi'

?X:
?X: OSF/1 uses __LANGUAGE_C__ instead of LANGUAGE_C
?X:
if ./osf1; then
 set signal.h __LANGUAGE_C__; eval $inctest
else
 set signal.h LANGUAGE_C; eval $inctest
fi

case "$hint" in
default|recommended) dflt="$ccflags $dflt" ;;
*) dflt="$ccflags";;
esac
```

```
case "$dflt" in
"|' ') dflt=none;;
esac
$cat <<EOH

Your C compiler may want other flags.  For this question you should include
-I/whatever and -DWHATEVER flags and any other flags used by the C compiler,
but you should NOT include libraries or ld flags like -lwhatever.

To use no flags, specify the word "none".

EOH
?X: strip leading space
set X $dflt
shift
dflt=${1+"$@"}
rp="Any additional cc flags?"
. ./myread
case "$ans" in
none) ccflags=";;
*) ccflags="$ans";;
esac

: the following weeds options from ccflags that are of no interest to cpp
cppflags="$ccflags"
case "$gccversion" in
1*) cppflags="$cppflags -D__GNUC__"
esac
case "$mips_type" in
");;
*BSD*)
 cppflags="$cppflags -DSYSTYPE_BSD43";;
esac
case "$cppflags" in
");;
*)
 echo " "
 echo "Let me guess what the preprocessor flags are..." >&4
 set X $cppflags
 shift
 cppflags="
 $cat >cpp.c <<'EOM'
#define BLURFL foo

BLURFL xx LFRULB
EOM
?X:
?X: For each cc flag, try it out with both cppstdin and cpprun, since the
```

```
?X: first is almost surely a cc wrapper. We have to try both in case
?X: of cc flags like '-Olimit 2900' that are actually two words...
?X:
 previous=''
 for flag in $*
 do
  case "$flag" in
  -*) ftry="$flag";;
  *) ftry="$previous $flag";;
  esac
  if $cppstdin -DLFRULB=bar $ftry $cppminus <cpp.c \
   >cpp1.out 2>/dev/null && \
   $cpprun -DLFRULB=bar $ftry $cpplast <cpp.c \
   >cpp2.out 2>/dev/null && \
   $contains 'foo.*xx.*bar' cpp1.out >/dev/null 2>&1 && \
   $contains 'foo.*xx.*bar' cpp2.out >/dev/null 2>&1
  then
   cppflags="$cppflags $ftry"
   previous=''
  else
   previous="$flag"
  fi
 done
 set X $cppflags
 shift
 cppflags=${1+"$@"}
 case "$cppflags"
 in
 *-*)  echo "They appear to be: $cppflags";;
 esac
 $rm -f cpp.c cpp?.out
 ;;
esac

: flags used in final linking phase
case "$ldflags" in
'') if ./venix; then
  dflt='-i -z'
 else
  dflt=''
 fi
 case "$ccflags" in
 *-posix*) dflt="$dflt -posix" ;;
 esac
 ;;
*) dflt="$ldflags";;
esac
```

```
: Try to guess additional flags to pick up local libraries.
for thislibdir in $libpth; do
 case " $loclibpth " in
 *" $thislibdir "*)
  case "$dflt " in
  *"-L$thislibdir "*) ;;
  *)  dflt="$dflt -L$thislibdir" ;;
  esac
  ;;
 esac
done

case "$dflt" in
") dflt='none' ;;
*) set X $dflt; shift; dflt="$@";;
esac

$cat <<EOH

Your C linker may need flags.  For this question you should
include -L/whatever and any other flags used by the C linker, but you
should NOT include libraries like -lwhatever.

Make sure you include the appropriate -L/path flags if your C linker
does not normally search all of the directories you specified above,
namely
 $libpth
To use no flags, specify the word "none".

EOH

rp="Any
 additional ld flags (NOT including libraries)?"
. ./myread
case "$ans" in
none) ldflags=";;
*) ldflags="$ans";;
esac
rmlist="$rmlist pdp11"

@if lkflags
: partial linking may need other flags
case "$lkflags" in
") case "$ldflags" in
 ") dflt='none';;
 *) dflt="$ldflags";;
 esac;;
*) dflt="$lkflags";;
```

```
esac
echo " "
rp="Partial linking flags to be used (NOT including -r)?"
. ./myread
case "$ans" in
none) lkflags="";;
*) lkflags="$ans";;
esac

@end
?X:
?X: If the user changes compilers after selecting a hint file, it's
?X: possible that the suggested ccflags/ldflags will be wrong.  Try to
?X: compile and run a simple test program.  Let the user see all the
?X: error messages. -- ADO and RAM
?X:
: coherency check
echo " "
echo "Checking your choice of C compiler and flags for coherency..." >&4
?X: Strip extra blanks in case some of the following variables are empty
set X $cc $optimize $ccflags $ldflags -o try try.c
shift
$cat >try.msg <<EOM
I've tried to compile and run a simple program
 with:

 $*
 ./try

and I got the following output:

EOM
$cat > try.c <<'EOF'
#include <stdio.h>
int main() { exit(0); }
EOF
dflt=y
?X: Use "sh -c" to avoid error messages tagged with leading "Configure:".
?X: We need to try the resulting executable, because cc might yield a 0 status
?X: even when ld failed, in which case the executable will not run properly,
?X: if its x bit is set at all...
if sh -c "$cc $optimize $ccflags $ldflags -o try try.c" >>try.msg 2>&1; then
 if sh -c './try' >>try.msg 2>&1; then
  dflt=n
 else
  echo "The program compiled OK, but exited with status $?." >>try.msg
  rp="You have a problem.  Shall I abort Configure"
  dflt=y
```

```
 fi
else
 echo "I can't compile the test program." >>try.msg
 rp="You have a BIG problem.  Shall I abort Configure"
 dflt=y
fi
case "$dflt" in
y)
 $cat try.msg >&4
?X: using -K will prevent default aborting--maybe they're cross compiling?
 case "$knowitall" in
 ")
  echo "(The supplied flags might be incorrect with this C compiler.)"
  ;;
 *)
 dflt=n;;
 esac
 echo " "
 . ./myread
 case "$ans" in
 n*|N*) ;;
 *) echo "Ok.  Stopping Configure." >&4
  exit 1
  ;;
 esac
 ;;
n) echo "OK, that should do.";;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/ccflags.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_termio.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_termio.U,v $
?RCS: Revision 3.0.1.4  1994/10/29  16:20:54  ram
?RCS: patch36: call ./usg and ./Cppsym explicitly instead of relying on PATH
```

```
?RCS:
?RCS: Revision 3.0.1.3  1994/08/29  16:26:38  ram
?RCS: patch32: don't include all threee I_* symbols in config.h
?RCS: patch32: (had forgotten to undo this part last time)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:25:03  ram
?RCS: patch27: undone ADO's fix in previous patch since it was useless
?RCS:
?RCS:
 Revision 3.0.1.1  1994/05/06  15:05:23  ram
?RCS: patch23: now include all three defines in config.h (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_termio i_sgtty i_termios: test Inlibc Cppsym Guess Setvar Findhdr Warn run
?MAKE: -pick add $@ %<
?S:i_termio:
?S: This variable conditionally defines the I_TERMIO symbol, which
?S: indicates to the C program that it should include <termio.h> rather
?S: than <sgtty.h>.
?S:.
?S:i_termios:
?S: This variable conditionally defines the I_TERMIOS symbol, which
?S: indicates to the C program that the POSIX <termios.h> file is
?S: to be included.
?S:.
?S:i_sgtty:
?S: This variable conditionally defines the I_SGTTY symbol, which
?S: indicates to the C program that it should include <sgtty.h> rather
?S: than <termio.h>.
?S:.
?C:I_TERMIO:
?C: This symbol, if defined, indicates that the program should include
?C: <termio.h> rather than <sgtty.h>.  There are also differences in
?C: the
 ioctl() calls that depend on the value of this symbol.
?C:.
?C:I_TERMIOS:
?C: This symbol, if defined, indicates that the program should include
?C: the POSIX termios.h rather than sgtty.h or termio.h.
?C: There are also differences in the ioctl() calls that depend on the
?C: value of this symbol.
?C:.
?C:I_SGTTY:
?C: This symbol, if defined, indicates that the program should include
?C: <sgtty.h> rather than <termio.h>.  There are also differences in
?C: the ioctl() calls that depend on the value of this symbol.
```

```
?C:.
?H:#$i_termio I_TERMIO  /**/
?H:#$i_termios I_TERMIOS  /**/
?H:#$i_sgtty I_SGTTY  /**/
?H:.
?T:val2 val3
?LINT:set i_termio i_sgtty i_termios
: see if this is a termio system
val="$undef"
val2="$undef"
val3="$undef"
?X: Prefer POSIX-approved termios.h over all else
if $test `./findhdr termios.h`; then
   set tcsetattr i_termios
   eval $inlibc
   val3="$i_termios"
fi
echo " "
case "$val3" in
   "$define") echo "You have POSIX termios.h... good!" >&4;;
   *)
  if ./Cppsym pyr; then
     case "`$run /bin/universe`" in
  ucb) if $test `./findhdr sgtty.h`; then
   val2="$define"
   echo "<sgtty.h> found." >&4
      else
   echo "System is pyramid with BSD universe."
   ./warn "<sgtty.h> not found--you could have problems."
      fi;;
  *)  if $test `./findhdr termio.h`; then
   val="$define"
   echo "<termio.h> found." >&4
      else
   echo "System is pyramid with USG universe."
   ./warn "<termio.h> not found--you could have problems."
      fi;;
     esac
?X: Start with USG to avoid problems if both usg/bsd was guessed
 elif ./usg; then
     if $test `./findhdr termio.h`; then
  echo "<termio.h> found." >&4
  val="$define"
     elif $test `./findhdr sgtty.h`; then
  echo "<sgtty.h> found." >&4
  val2="$define"
     else
  ./warn "Neither <termio.h> nor <sgtty.h> found--cross fingers!"
```

```
    fi
 else
    if $test `./findhdr sgtty.h`; then
  echo "<sgtty.h> found." >&4
  val2="$define"
    elif $test `./findhdr termio.h`; then
  echo "<termio.h>
 found." >&4
  val="$define"
    else
  ./warn "Neither <sgtty.h> nor <termio.h> found--cross fingers!"
    fi
 fi;;
esac
set i_termio; eval $setvar
val=$val2; set i_sgtty; eval $setvar
val=$val3; set i_termios; eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_termio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: man3dir.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:10:34  ram
?RCS: patch61: created
?RCS:
?X:
?X: This was originally specific to perl5.  Since perl5 has man pages that
?X: go in both man1/ and man3/ directories, we need both man1dir
?X: and man3dir.  This unit is basically dist's mansrc.U with
?X: man3 used instead of man everywhere.
?X: I then added various tests because perl5 has *lots* of man3
?X: pages with long file names. -- ADO
?X:
?MAKE:man3dir
```

```
 man3direxp man3ext installman3dir: afs cat nroff Loc Oldconfig \
 sed man1dir spackage package Getfile prefix Prefixit Prefixup \
 d_flexfnam privlib Myread
?MAKE: -pick add $@ %<
?Y:TOP
?S:man3dir:
?S: This variable contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?S:man3direxp:
?S: This variable is the same as the man3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?S:installman3dir:
?S: This variable is really the same as man3direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man3direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:man3ext:
?S: This variable contains the extension that the manual
 page should
?S: have: one of 'n', 'l', or '3'.  The Makefile must supply the '.'.
?S: See man3dir.
?S:.
: determine where library module manual pages go
set man3dir man3dir none
eval $prefixit
$cat <<EOM

$spackage has manual pages for many of the library modules.
EOM

case "$nroff" in
nroff)
 $cat <<'EOM'
However, you don't have nroff, so they're probably useless to you.
EOM
 case "$man3dir" in
 ") man3dir="none";;
 esac;;
esac

case "$d_flexfnam" in
undef)
 $cat <<'EOM'
```

```
However, your system can't handle the long file names like File::Basename.3.
EOM
 case "$man3dir" in
 ") man3dir="none";;
 esac;;
esac

echo "If you don't want the manual sources installed, answer 'none'."
?X: We dont use /usr/local/man/man3 because some man programs will
?X: only show the /usr/local/man/man3 contents, and not the system ones,
?X: thus man less will show the perl module less.pm, but not the system
?X: less command.  We might also conflict with TCL man pages.
?X: However, something like /opt/perl/man/man3
 is fine.
case "$man3dir" in
") case "$prefix" in
 *$package*) dflt=`echo $man1dir |
   $sed -e 's/man1/man3/g' -e 's/man\.1/man\.3/g'` ;;
 *) dflt="$privlib/man/man3" ;;
 esac
 ;;
' ') dflt=none;;
*) dflt="$man3dir" ;;
esac
echo " "

fn=dn+~
rp="Where do the $package library man pages (source) go?"
. ./getfile
if test "X$man3direxp" != "X$ansexp"; then
 installman3dir="
fi

man3dir="$ans"
man3direxp="$ansexp"
case "$man3dir" in
") man3dir=' '
 installman3dir=";;
esac
if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
manual pages reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installman3dir" in
```

```
 ") dflt=`echo $man3direxp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installman3dir";;
 esac
 fn=de~
 rp='Where will man pages be installed?'
 . ./getfile
 installman3dir="$ans"
else
 installman3dir="$man3direxp"
fi

: What suffix
 to use on installed man pages

case "$man3dir" in
' ')
 man3ext='0'
 ;;
*)
 rp="What suffix should be used for the $package library man pages?"
 case "$man3ext" in
 ") case "$man3dir" in
  *3)  dflt=3 ;;
  *3p) dflt=3p ;;
  *3pm) dflt=3pm ;;
  *l) dflt=l;;
  *n) dflt=n;;
  *o) dflt=o;;
  *p) dflt=p;;
  *C) dflt=C;;
  *L) dflt=L;;
  *L3) dflt=L3;;
  *) dflt=3;;
  esac
  ;;
 *) dflt="$man3ext";;
 esac
 . ./myread
 man3ext="$ans"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/man3dir.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_setnetent_r.U,v 0RCS:

```
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_setnetent_r setnetent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_setnetent_r:
?S: This variable conditionally defines the HAS_SETNETENT_R symbol,
?S: which indicates to the C program that the setnetent_r()
?S: routine is available.
?S:.
?S:setnetent_r_proto:
?S: This variable encodes the prototype of setnetent_r.
?S: It is zero if d_setnetent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setnetent_r
?S: is defined.
?S:.
?C:HAS_SETNETENT_R:
?C: This symbol, if defined, indicates that the setnetent_r routine
?C: is
 available to setnetent re-entrantly.
?C:.
?C:SETNETENT_R_PROTO:
?C: This symbol encodes the prototype of setnetent_r.
?C: It is zero if d_setnetent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setnetent_r
?C: is defined.
?C:.
?H:#$d_setnetent_r HAS_SETNETENT_R /**/
?H:#define SETNETENT_R_PROTO $setnetent_r_proto /**/
?H:.
?T:try hdrs d_setnetent_r_proto
: see if setnetent_r exists
set setnetent_r d_setnetent_r
eval $inlibc
case "$d_setnetent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_setnetent_r_proto:$usethreads" in
 ":define") d_setnetent_r_proto=define
  set d_setnetent_r_proto setnetent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
```

```
 case "$d_setnetent_r_proto" in
 define)
 case "$setnetent_r_proto" in
 "|0) try='int setnetent_r(int, struct netent_data*);'
 ./protochk "$extern_C $try" $hdrs && setnetent_r_proto=I_ID ;;
 esac
 case "$setnetent_r_proto" in
 "|0) try='void setnetent_r(int, struct netent_data*);'
 ./protochk
 "$extern_C $try" $hdrs && setnetent_r_proto=V_ID ;;
 esac
 case "$setnetent_r_proto" in
 "|0) d_setnetent_r=undef
  setnetent_r_proto=0
  echo "Disabling setnetent_r, cannot determine prototype." >&4 ;;
 * ) case "$setnetent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) setnetent_r_proto="REENTRANT_PROTO_$setnetent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "setnetent_r has no prototype, not using it." >&4 ;;
  esac
  d_setnetent_r=undef
  setnetent_r_proto=0
  ;;
 esac
 ;;
*) setnetent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_setnetent_r.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_linuxstd.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.

```
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_linuxstd.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:14:05  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_linuxstd: d_stdstdio cppstdin cppflags cppminus \
 contains rm Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_linuxstd:
?S: This variable conditionally defines USE_LINUX_STDIO if this system
?S: has a FILE structure declaring _IO_read_base, _IO_read_ptr,
?S: and _IO_read_end
 in stdio.h.
?S:.
?C:USE_LINUX_STDIO:
?C: This symbol is defined if this system has a FILE structure declaring
?C: _IO_read_base, _IO_read_ptr, and _IO_read_end in stdio.h.
?C:.
?H:#$d_linuxstd USE_LINUX_STDIO  /**/
?H:.
?T:xxx
?LINT:set d_linuxstd
: see if stdio is like that in linux
case "$d_stdstdio" in
"$undef")
 echo " "
 xxx=`./findhdr stdio.h`
 $cppstdin $cppflags $cppminus < "$xxx" > stdio.E
 if $contains 'char.*_IO_read_base' stdio.E >/dev/null 2>&1 && \
  $contains '_IO_read_ptr' stdio.E >/dev/null 2>&1 && \
  $contains '_IO_read_end' stdio.E >/dev/null 2>&1 ; then
   echo "Your stdio looks like linux." >&4
   val="$define"
 else
  echo "You don't have linux stdio, either." >&4
  val="$undef"
 fi
 $rm -f stdio.E
 ;;
*) val="$undef" ;;
esac

set d_linuxstd
eval $setvar

Found in path(s):
```

* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_linuxstd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpwuid_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getpwuid_r getpwuid_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_pwd extern_C
?MAKE: -pick add $@ %<
?S:d_getpwuid_r:
?S: This variable conditionally defines the HAS_GETPWUID_R symbol,
?S: which indicates to the C program that the getpwuid_r()
?S: routine is available.
?S:.
?S:getpwuid_r_proto:
?S: This variable encodes the prototype of getpwuid_r.
?S: It is zero if d_getpwuid_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getpwuid_r
?S: is defined.
?S:.
?C:HAS_GETPWUID_R:
?C: This symbol, if defined, indicates that the getpwuid_r routine
?C: is available to
 getpwuid re-entrantly.
?C:.
?C:GETPWUID_R_PROTO:
?C: This symbol encodes the prototype of getpwuid_r.
?C: It is zero if d_getpwuid_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getpwuid_r
?C: is defined.
?C:.
?H:#$d_getpwuid_r HAS_GETPWUID_R /**/
?H:#define GETPWUID_R_PROTO $getpwuid_r_proto /**/
?H:.
?T:try hdrs d_getpwuid_r_proto
: see if getpwuid_r exists
set getpwuid_r d_getpwuid_r
eval $inlibc
case "$d_getpwuid_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_pwd pwd.h"
 case "$d_getpwuid_r_proto:$usethreads" in
```

```
":define") d_getpwuid_r_proto=define
 set d_getpwuid_r_proto getpwuid_r $hdrs
 eval $hasproto ;;
*) ;;
esac
case "$d_getpwuid_r_proto" in
define)
case "$getpwuid_r_proto" in
"|0) try='int getpwuid_r(uid_t, struct passwd*, char*, size_t, struct passwd**);'
./protochk "$extern_C $try" $hdrs && getpwuid_r_proto=I_TSBWR ;;
esac
case "$getpwuid_r_proto" in
"|0) try='int getpwuid_r(uid_t, struct passwd*, char*, int,
struct passwd**);'
./protochk "$extern_C $try" $hdrs && getpwuid_r_proto=I_TSBIR ;;
esac
case "$getpwuid_r_proto" in
"|0) try='int getpwuid_r(uid_t, struct passwd*, char*, int);'
./protochk "$extern_C $try" $hdrs && getpwuid_r_proto=I_TSBI ;;
esac
case "$getpwuid_r_proto" in
"|0) try='struct passwd* getpwuid_r(uid_t, struct passwd*, char*, int);'
./protochk "$extern_C $try" $hdrs && getpwuid_r_proto=S_TSBI ;;
esac
case "$getpwuid_r_proto" in
"|0) d_getpwuid_r=undef
 getpwuid_r_proto=0
 echo "Disabling getpwuid_r, cannot determine prototype." >&4 ;;
* ) case "$getpwuid_r_proto" in
 REENTRANT_PROTO*) ;;
 *) getpwuid_r_proto="REENTRANT_PROTO_$getpwuid_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "getpwuid_r has no prototype, not using it." >&4 ;;
 esac
 d_getpwuid_r=undef
 getpwuid_r_proto=0
 ;;
esac
;;
*) getpwuid_r_proto=0
 ;;
esac
```

Found in path(s):

* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getpwuid_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getpwent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getpwent: Csym Setvar
?MAKE: -pick add $@ %<
?S:d_getpwent:
?S: This variable conditionally defines the HAS_GETPWENT symbol, which
?S: indicates to the C program that it should use the getpwent()
?S: routine instead of the getpw() routine.
?S:.
?C:HAS_GETPWENT (GETPWENT):
?C: This symbol, if defined, indicates that the getpwent() routine
?C: should be used instead of the getpw()
 routine.
?C:.
?H:#$d_getpwent HAS_GETPWENT /**/
?H:.
?LINT:set d_getpwent
: see if there is a getpwent
echo " "
if set getpwent val -f d_getpwent; eval $csym; $val; then
 echo "getpwent() found." >&4
 val="$define"
else
 echo "No getpwent() found -- will use getpw() instead." >&4
 val="$undef"
fi
set d_getpwent
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getpwent.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Tr.U,v 3.0.1.2 1994/10/29 18:00:54 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Tr.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  18:00:54  ram
?RCS: patch43: forgot to quote $@ to protect against "evil" characters
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:58:35  ram
?RCS: patch36: created
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to do a character translation. It catches translations to uppercase or
?X: to lowercase, and then invokes the real tr to perform the job.
?X:
?X: This unit is necessary
 on HP machines (HP strikes again!) with non-ascii
?X: ROMAN8-charset, where normal letters are not arranged in a row, so a-z
?X: covers not the whole alphabet but lots of special chars. This was reported
?X: by Andreas Sahlbach <a.sahlbach@tu-bs.de>.
?X:
?X: Units performing a tr '[A-Z]' '[a-z]' or the other way round should include
?X: us in their dependency and use ./tr instead.
?X:
?MAKE:Tr: startsh tr eunicefix
?MAKE: -pick add $@ %<
?F:./tr
?T:up low
: see whether [:lower:] and [:upper:] are supported character classes
echo " "
case "`echo AbyZ | $tr '[:lower:]' '[:upper:]' 2>/dev/null`"-"`echo AbyZ | $tr '[:upper:]' '[:lower:]' 2>/dev/null`" in
ABYZ-abyz)
 echo "Good, your tr supports [:lower:] and [:upper:] to convert case." >&4
 up='[:upper:]'
 low='[:lower:]'
 ;;
*) # There is a discontinuity in EBCDIC between 'R' and 'S'
 # (0xd9 and 0xe2), therefore that is a nice testing point.
 if test "X$up" = X -o "X$low" = X; then
```

```
    case "`echo RS | $tr '[R-S]' '[r-s]' 2>/dev/null`"
 in
    rs) up='[A-Z]'
  low='[a-z]'
  ;;
    esac
 fi
 if test "X$up" = X -o "X$low" = X; then
    case "`echo RS | $tr R-S r-s 2>/dev/null`" in
    rs) up='A-Z'
  low='a-z'
  ;;
    esac
 fi
 if test "X$up" = X -o "X$low" = X; then
    case "`echo RS | od -x 2>/dev/null`" in
    *D9E2*|*d9e2*)
  echo "Hey, this might be EBCDIC." >&4
  if test "X$up" = X -o "X$low" = X; then
     case "`echo RS | $tr '[A-IJ-RS-Z]' '[a-ij-rs-z]' 2>/dev/null`" in
     rs) up='[A-IJ-RS-Z]'
   low='[a-ij-rs-z]'
   ;;
     esac
  fi
  if test "X$up" = X -o "X$low" = X; then
     case "`echo RS | $tr A-IJ-RS-Z a-ij-rs-z 2>/dev/null`" in
     rs) up='A-IJ-RS-Z'
   low='a-ij-rs-z'
   ;;
     esac
  fi
  ;;
    esac
 fi
esac
case "`echo RS | $tr \"$up\" \"$low\" 2>/dev/null`" in
rs)
   echo "Using $up and $low to convert case." >&4
   ;;
*)
   echo "I don't know how to translate letters from upper to lower case." >&4
   echo "Your tr is not acting any way I know of." >&4
   exit 1
   ;;
esac
:
```

```
 set up the translation script tr, must be called with ./tr of course
cat >tr <<EOSC
$startsh
case "\$1\$2" in
'[A-Z][a-z]') exec $tr '$up' '$low';;
'[a-z][A-Z]') exec $tr '$low' '$up';;
esac
exec $tr "\$@"
EOSC
chmod +x tr
$eunicefix tr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Tr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Rcs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Rcs.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This is a unit that helps people who write SH scripts and keep them under
?X: RCS, but don't think to protect the $Log and other $Id keywords from
?X: variable substitution (or people like me who do not like to).
?X:
?MAKE:Author Date Header Id Locker Log RCSfile Revision Source State: Oldconfig
?MAKE: -pick weed $@ %<
?LINT:describe Author
 Date Header Id Locker Log RCSfile Revision Source State
: preserve RCS keywords in files with variable substitution, grrr
?Author:Author='$Author'
?Date:Date='$Date'
?Header:Header='$Header'
?Id:Id='$Id'
?$Locker'
?Log:Log='$Log'
?RCSfile:RCSfile='$RCSfile'
```

```
?Revision:Revision='$Revision'
?Source:Source='$Source'
?State:State='$State'
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Rcs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethbynm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_gethbynm.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_gethbyname: Inlibc
?MAKE: -pick add $@ %<
?S:d_gethbyname (d_gethbynm d_gethhstby):
?S: This variable conditionally defines the HAS_GETHOSTBYNAME symbol, which
?S: indicates to the C program that the gethostbyname() routine is available
?S: to look up host names in some data base or other.
?S:.
?C:HAS_GETHOSTBYNAME (GETHOSTBYNAME):
?C: This
 symbol, if defined, indicates that the gethostbyname() routine is
?C: available to look up host names in some data base or other.
?C:.
?H:#$d_gethbyname HAS_GETHOSTBYNAME  /**/
?H:.
?LINT:set d_gethbyname
: see if gethostbyname exists
set gethostbyname d_gethbyname
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_gethbynm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_hypot: Inlibc
?MAKE: -pick add $@ %<
?S:d_hypot:
?S: This variable conditionally defines HAS_HYPOT if hypot is available
?S: for numerically stable hypotenuse function.
?S:.
?C:HAS_HYPOT:
?C: This symbol, if defined, indicates that the hypot routine is
?C: available to do the hypotenuse function.
?C:.
?H:#$d_hypot HAS_HYPOT  /**/
?H:.
?LINT:set d_hypot
: see if hypot exists
set hypot d_hypot
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_hypot.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_rint: Inlibc
?MAKE: -pick add $@ %<
?S:d_rint:
?S: This variable conditionally defines the HAS_RINT symbol, which
?S: indicates to the C program that the rint() routine is available.
?S:.
?C:HAS_RINT:
?C: This symbol, if defined, indicates that the rint routine is
?C: available to return the nearest integral value to x as double
?C: using the current rounding mode.
?C:.
?H:#$d_rint HAS_RINT  /**/
?H:.
?LINT:set d_rint
: see if rint exists
set rint d_rint
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_rint.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Inlibc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Inlibc.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  15:55:08  ram
?RCS: patch36: call ./whoa explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit checks for the definition of a given function.
?X:
?X: To use it, say:
?X: set function d_func
?X: eval $inlibc
?X:
?MAKE:Inlibc: Csym Whoa Oldconfig
?MAKE: -pick add $@ %<
?LINT:define inlibc
?V:inlibc
?S:inlibc:
?S: This
 shell variable is used internally by Configure to check
?S: wether a given function is defined or not. A typical use is:
?S:  set function d_func
?S:  eval $inlibc
?S: That will print a message, saying wether function was found or
?S: not and set d_func accordingly.
?S:.
?T:was tx sym tres td tu var
: define an is-in-libc? function
inlibc='echo " "; td=$define; tu=$undef;
sym=$1; var=$2; eval "was=\$$2";
tx=yes;
case "$reuseval$was" in
true) ;;
true*) tx=no;;
esac;
```

```
case "$tx" in
yes)
 set $sym tres -f;
 eval $csym;
 case "$tres" in
 true)
  echo "$sym() found." >&4;
  case "$was" in $undef) . ./whoa; esac; eval "$var=\$td";;
 *)
  echo "$sym() NOT found." >&4;
  case "$was" in $define) . ./whoa; esac; eval "$var=\$tu";;
 esac;;
*)
 case "$was" in
 $define) echo "$sym() found." >&4;;
 *) echo "$sym() NOT found." >&4;;
 esac;;
esac'
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Inlibc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: stdchar.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:stdchar: contains Findhdr cppstdin cppminus rm
?MAKE: -pick add $@ %<
?S:stdchar:
?S: This variable conditionally defines STDCHAR to be the type of char
?S: used in stdio.h.  It has the values "unsigned char" or "char".
?S:.
?C:STDCHAR:
?C: This symbol is defined to be the type of char used in stdio.h.
?C: It has the values "unsigned char" or "char".
?C:.
```

```
?H:#define STDCHAR $stdchar /**/
?H:.
?F:!stdioh
:
 see what type of char stdio uses.
echo " "
?X: untangle the #include nest
echo '#include <stdio.h>' | $cppstdin $cppminus > stdioh
if $contains 'unsigned.*char.*_ptr;' stdioh >/dev/null 2>&1 ; then
 echo "Your stdio uses unsigned chars." >&4
 stdchar="unsigned char"
else
 echo "Your stdio uses signed chars." >&4
 stdchar="char"
fi
$rm -f stdioh
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/stdchar.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: installprefix.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: installprefix.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?RCS:
?MAKE:installprefix installprefixexp: Getfile Loc \
 Oldconfig afs cat package prefix
?MAKE: -pick add $@ %<
?S:installprefix:
?S: This variable holds the name of the directory below which
?S: "make install" will install the package.  For most users, this
?S: is the same
 as prefix.  However, it is useful for
?S: installing the software into a different (usually temporary)
```

```
?S: location after which it can be bundled up and moved somehow
?S: to the final location specified by prefix.
?S:.
?S:installprefixexp:
?S: This variable holds the full absolute path of installprefix
?S: with all ~-expansion done.
?S:.
: determine installation prefix for where package is to be installed.
if $afs; then
$cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
files will reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installprefix" in
 '') dflt=`echo $prefix | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installprefix";;
 esac
else
$cat <<EOM

In some special cases, particularly when building $package for distribution,
it is convenient to distinguish the directory in which files should be
installed from the directory ($prefix) in which they will
eventually
 reside.  For most users, these two directories are the same.

EOM
 case "$installprefix" in
 '') dflt=$prefix ;;
 *) dflt=$installprefix;;
 esac
fi
fn=d~
rp='What installation prefix should I use for installing files?'
. ./getfile
installprefix="$ans"
installprefixexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/installprefix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_wait3.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_wait3.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_wait3: Inlibc
?MAKE: -pick add $@ %<
?S:d_wait3:
?S: This variable conditionally defines the HAS_WAIT3 symbol, which
?S: indicates to the C program that the wait3() subroutine exists.
?S:.
?C:HAS_WAIT3:
?C: This symbol, if defined, indicates that the wait3() subroutine
?C: exists.
?C:.
?H:#$d_wait3 HAS_WAIT3 /**/
?H:.
?LINT:set d_wait3
:
 see if 'wait3()' exists
set wait3 d_wait3
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_wait3.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fs_data_s: Hasstruct i_sysparam i_sysmount i_systypes Setvar
?MAKE: -pick add $@ %<
?S:d_fs_data_s:
?S: This variable conditionally defines the HAS_STRUCT_FS_DATA symbol,
?S: which indicates that the struct fs_data is supported.
?S:.
```

```
?C:HAS_STRUCT_FS_DATA:
?C: This symbol, if defined, indicates that the struct fs_data
?C: to do statfs() is supported.
?C:.
?H:#$d_fs_data_s HAS_STRUCT_FS_DATA /**/
?H:.
?LINT:set d_fs_data_s
: Check for fs_data_s
echo " "
echo "Checking to see if your system supports struct fs_data..." >&4
set d_fs_data_s fs_data $i_systypes sys/types.h $i_sysparam sys/param.h $i_sysmount sys/mount.h
eval $hasstruct
case "$d_fs_data_s" in
"$define")      echo "Yes, it does."   ;;
*)
            echo "No, it doesn't." ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fs_data_s.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysmount.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysmount: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysmount:
?S: This variable conditionally defines the I_SYSMOUNT symbol,
?S: and indicates whether a C program should include <sys/mount.h>.
?S:.
?C:I_SYS_MOUNT:
?C: This symbol, if defined, indicates that <sys/mount.h> exists and
?C: should be included.
?C:.
?H:#$i_sysmount I_SYS_MOUNT  /**/
?H:.
?LINT:set i_sysmount
: see if this is a sys/mount.h system
set sys/mount.h i_sysmount
eval $inhdr
```

Found in path(s):

* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysmount.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_ilogbl: Inlibc
?MAKE: -pick add $@ %<
?S:d_ilogbl:
?S: This variable conditionally defines the HAS_ILOGBL symbol, which
?S: indicates to the C program that the ilogbl() routine is available
?S: for extracting the exponent of long double x as a signed integer.
?S: If scalbnl is also present we can emulate frexpl.
?S:.
?C:HAS_ILOGBL:
?C: This symbol, if defined, indicates that the ilogbl routine is
?C: available.  If scalbnl is also present we can emulate frexpl.
?C:.
?H:#$d_ilogbl HAS_ILOGBL  /**/
?H:.
?LINT:set d_ilogbl
: see if ilogbl exists
set ilogbl d_ilogbl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_ilogbl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_lrint: Inlibc
?MAKE: -pick add $@ %<
?S:d_lrint:
?S: This variable conditionally defines the HAS_LRINT symbol, which
?S: indicates to the C program that the lrint() routine is available
?S: to return the integral value closest to a double (according
?S: to the current rounding mode).
?S:.
?C:HAS_LRINT:
?C: This symbol, if defined, indicates that the lrint routine is
```

```
?C: available to return the integral value closest to a double
?C: (according to the current rounding mode).
?C:.
?H:#$d_lrint HAS_LRINT  /**/
?H:.
?LINT:set d_lrint
: see if lrint exists
set lrint d_lrint
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lrint.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_htonl.U,v $
?RCS: Revision 3.0.1.2  1994/08/29  16:09:25  ram
?RCS: patch32: now properly handles htonl() and friends when macros (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:45:00  ram
?RCS: patch23: now also check for htonl() macro (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:22  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_htonl: Inlibc Setvar i_niin i_sysin cat rm contains \
 cppstdin cppflags cppminus
?MAKE: -pick add $@ %<
?S:d_htonl:
?S: This variable conditionally
 defines HAS_HTONL if htonl() and its
?S: friends are available to do network order byte swapping.
?S:.
?C:HAS_HTONL (HTONL):
?C: This symbol, if defined, indicates that the htonl() routine (and
?C: friends htons() ntohl() ntohs()) are available to do network
?C: order byte swapping.
?C:.
```

```
?C:HAS_HTONS (HTONS):
?C: This symbol, if defined, indicates that the htons() routine (and
?C: friends htonl() ntohl() ntohs()) are available to do network
?C: order byte swapping.
?C:.
?C:HAS_NTOHL (NTOHL):
?C: This symbol, if defined, indicates that the ntohl() routine (and
?C: friends htonl() htons() ntohs()) are available to do network
?C: order byte swapping.
?C:.
?C:HAS_NTOHS (NTOHS):
?C: This symbol, if defined, indicates that the ntohs() routine (and
?C: friends htonl() htons() ntohl()) are available to do network
?C: order byte swapping.
?C:.
?H:#$d_htonl HAS_HTONL  /**/
?H:#$d_htonl HAS_HTONS  /**/
?H:#$d_htonl HAS_NTOHL  /**/
?H:#$d_htonl HAS_NTOHS  /**/
?H:.
?F:!htonl.c
?LINT:set d_htonl
:
 see if htonl --and friends-- exists
val=''
set htonl val
eval $inlibc

: Maybe they are macros.
case "$val" in
$undef)
 $cat >htonl.c <<EOM
#include <stdio.h>
#include <sys/types.h>
#$i_niin I_NETINET_IN
#$i_sysin I_SYS_IN
#ifdef I_NETINET_IN
#include <netinet/in.h>
#endif
#ifdef I_SYS_IN
#include <sys/in.h>
#endif
#ifdef htonl
printf("Defined as a macro.");
#endif
EOM
 $cppstdin $cppflags $cppminus < htonl.c >htonl.E 2>/dev/null
 if $contains 'Defined as a macro' htonl.E >/dev/null 2>&1; then
```

```
  val="$define"
  echo "But it seems to be defined as a macro." >&4
 fi
 $rm -f htonl.?
 ;;
esac
set d_htonl
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_htonl.U
No license file was found, but licenses were detected in source scan.

Perl5 Metaconfig Units

Copyright (c) 1996-1998, Andy Dougherty
Copyright (c) 1999-2011, H.Merijn Brand
All rights reserved.

These units are the ones I used to build Configure and config_h.SH
in the Perl5 distribution.

The Configure script and config_h.SH file in the Perl distribution are
generated by a program called metaconfig. To run metaconfig, you will
need the full dist 3.0 distribution, maintained by Raphael Manfredi.
As of this writing, the current version is dist3.0, patchlevel 70.
Dist version dist-3.0@70.tar.gz is available on CPAN (the Comprehensive
Perl Archive Network) as
<http://www.perl.com/perl/CPAN/authors/id/RAM/dist-3.0@70.tar.gz>.

Instructions:

1. Unpack the full perl5 sources. Execute the following command

```
 chmod +w Configure config_h.SH Porting/Glossary Porting/config*
```

2. Unpack the archive containing this file in the perl5 source
   directory. This will create a directory
 'U' under the perl5
   sources. That directory will contain the metaconfig units for perl5.
   This will also create two files in the perl5 source tree:
   MANIFEST.new and .package.

3. Apply any patches to perl in the perl_patches/ directory.
   (This may well be empty.)

4. Obtain and install dist-3.0pl70.

4. Apply any patches to dist under the dist_patches subdirectory.

5. From your main perl5 source directory, run packinit to
   regenerate the .package file. IMPORTANT: Change the name and
   address of the maintainer to your own name and address. I don't
   want bug reports intended for you coming to me.

6. From your main perl5 source directory, run

 metalint (or mlint)

   and repair every failure it reports.

7. From your main perl5 source directory, run

 metaconfig -m (or mconfig -m)

8. Edit U/mkglossary and/or U/mkgloss.pl to point to your dist-3.0pl70
   location. (See comments at the top.)

9. Run the Porting/mksample script to update the contents
 of the Porting/
   subdirectory, or run all parts by hand. (see README)

   NB: this script used to be U/mksample replaced by Porting/mksample;
   see Porting/pumpkin.pod instead for current documentation on its
   use.

10. Let me know about any changes, corrections, or enhancements.

Things to watch out for:

1. Future support of better random number generators should probably
   start with the randfunc.U unit included here. It's currently
   broken, but well commented and probably a good place to start.

Descriptions:

The units and other related files have been broken up into the following
directories:

acl/
   This is an old patch to begin to detect and use ACL (access
   control list) file protection schemes.

compline/
   These are similar to the standard units, but I have modified them

to have a more uniform compile command line, usually using the new
Compile.U unit. I have submitted these for inclusion into the
regular dist distribution. (The ccflags.U
unit is actually
perl-specific since it mentions -DDEBUGGING and -DPOSIX_SOURCE,
but that's the only place it is perl-specific.)

dist_patches/
These are patches to dist that must be applied before it is built
and installed. I have submitted these for inclusion in the
regular dist distribution.

modified/
These are modified versions of the standard units. Also included in
this directory are new units that are clearly derived from existing
units. I have submitted these for inclusion in the regular dist
distribution.

perl/
These are specific to perl. Some are heavily derived from
original dist units, and are marked as such. Others are original.

perl_patches/
These are patches to the perl source. This directory
should ordinarily be empty, but there may have been drift between
the standard version of perl and the one associated with these
units.

protos/
These are units modified to use the new Hasproto.U or Protochk.U
units to check for prototypes. I have submitted these for inclusion
into the regular dist distribution.

target/
This is the very, very beginning of cross-compiler support.
It doesn't work yet, and many standard units will need
modification.

typedefs/
These are standard units modified to use the modified Typedef.U
unit to check for typedefs. (The modified Typdef.U includes a
function to avoid unnecessary prompts if the typdef being searched
for exists.) I have submitted these for inclusion into the
regular dist distribution.

threads/
These are specific to threading perl.

Copyright Information:

Unless otherwise indicated, the files contained in this
distribution are:

Copyright (c) 1996-1998, Andy Dougherty

The following licensing terms apply to all files contained in
this distribution:

You may distribute the files contained in this distribution
under the terms of either

a) the "Artistic License" which comes with Perl,
or

b) the "Artistic License" which comes with dist, or

c) the GNU General Public License as published by the Free
Software Foundation; either version 1, or (at your option) any
later version (see the file "Copying" that comes with the
Perl distribution).

Which one to use is your choice.

The units in the "modified" directory have been derived from units
associated with the metaconfig program of Raphael Manfredi's "dist"
distribution. These units list Raphael Manfredi as the Copyright holder.
dist is distributed under a modified version of the Perl Artistic License.
Clause 7 of this modified license as contained in dist-3.0-pl60 provides:

7. You may reuse parts of this Package in your own programs, provided
that you explicitly state where you got them from, in the source code
(and, left to your courtesy, in the documentation), duplicating
all the associated copyright notices and disclaimers. Besides
your changes, if any, must be clearly marked
as such. Parts reused
that way will no longer fall under this license if, and only if,
the name of your program(s) have no immediate connection with the
name of the Package itself or its associated programs. You may then
apply whatever restrictions you wish on the reused parts or choose
to place them in the Public Domain--this will apply only within the
context of your package.

In accordance with this clause, the versions of these units
contained here are made available under the same terms as the
rest of the units.

If you have any questions about the use of these units or about
the differences between these units and the standard versions, please
feel free to ask.

Andy Dougherty doughera@lafayette.edu
Dept. of Physics
Lafayette College
Easton, PA 18042-1782

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/README.dist
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: lns.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  07:05:52  ram
?RCS: patch30: created by ADO
?RCS:
?MAKE:issymlink: lns test rm
?MAKE: -pick add $@ %<
?S:issymlink:
?S: This variable holds the test command to test for a symbolic link
?S: (if they are supported).  Typical values include 'test -h' and
?S: 'test -L'.
?S:.
?T:pth p
?LINT:change PATH test
?LINT:extern newsh
: determine whether symbolic links are supported
echo
 " "
case "$lns" in
*"ln"*" -s")
 echo "Checking how to test for symbolic links..." >&4
 $lns blurfl sym
 if $test "X$issymlink" = X; then
```

```
?X:
?X: In some AIX 4 versions the (ksh) builtin test (-h) is broken.
?X:
  case "$newsh" in
  ") sh     -c "PATH= test -h sym" >/dev/null 2>&1 ;;
  *)  $newsh -c "PATH= test -h sym" >/dev/null 2>&1 ;;
  esac
  if test $? = 0; then
   issymlink="test -h"
  else
   echo "Your builtin 'test -h' may be broken." >&4
   case "$test" in
   /*) ;;
   *) pth=`echo $PATH | sed -e "s/$p_/ /g"`
    for p in $pth
    do
     if test -f "$p/$test"; then
      test="$p/$test"
      break
     fi
    done
    ;;
   esac
   case "$test" in
   /*)
    echo "Trying external '$test -h'." >&4
    issymlink="$test -h"
    if $test ! -h sym >/dev/null 2>&1; then
     echo "External '$test -h' is broken, too." >&4
     issymlink="
    fi
    ;;
   *) issymlink=" ;;
   esac
  fi
 fi
 if $test "X$issymlink" = X; then
  if $test -L sym 2>/dev/null; then
   issymlink="$test
 -L"
   echo "The builtin '$test -L' worked." >&4
  fi
 fi
 if $test "X$issymlink" != X; then
  echo "You can test for symbolic links with '$issymlink'." >&4
 else
  echo "I do not know how you can test for symbolic links." >&4
 fi
```

```
 $rm -f blurfl sym
 ;;
*) echo "No symbolic links, so not testing for their testing..." >&4
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/issymlink.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libnlist.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libnlist.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:08:02  ram
?RCS: patch61: added usrinc and mips on the dependency line
?RCS: patch61: make sure we call ./mips
?RCS: patch61: added a ?LINT: hint
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:00  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libnlist: Loc libpth Guess usrinc _a
?MAKE: -pick add $@ %<
?S:libnlist (libmld):
?S: This variable contains the name of the library required to
 get the
?S: definition of the nlist() function.  On a MIPS RISC/OS box, it is -lmld.
?S: Under Sys Vr4, it is -lelf.  Otherwise, its value is empty.
?S:.
?T:xxx
?LINT:use usrinc
: see if we need a special library for 'nlist()'
echo " "
: How about doing this if nlist is not in libc...
if ./mips ; then
 libnlist='-lmld'
else
 xxx=`./loc libelf$_a x $libpth`
 case "$xxx" in
```

```
 x)  ;;
 *)
  libnlist="$xxx"
  ;;
 esac
fi
case "$libnlist" in
") echo "No special library for nlist() seems necessary." >&4
 ;;
*)  echo "nlist() can be found in $libnlist." >&4
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/libnlist.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_hasmntopt: Inlibc
?MAKE: -pick add $@ %<
?S:d_hasmntopt:
?S: This variable conditionally defines the HAS_HASMNTOPT symbol, which
?S: indicates to the C program that the hasmntopt() routine is available
?S: to query the mount options of file systems.
?S:.
?C:HAS_HASMNTOPT:
?C: This symbol, if defined, indicates that the hasmntopt routine is
?C: available to query the mount options of file systems.
?C:.
?H:#$d_hasmntopt HAS_HASMNTOPT  /**/
?H:.
?LINT:set d_hasmntopt
: see if hasmntopt exists
set hasmntopt d_hasmntopt
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_hasmntopt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_perror.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_perror.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:11:38  ram
?RCS: patch32: always define HAS_PERROR even when not used in C code
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_perror: Inlibc
?MAKE: -pick add $@ %<
?S:d_perror:
?S: This variable conditionally remaps perror to a null action and
?S: defines the symbol HAS_PERROR, which indicates to the C program
?S: that the perror()
 routine is not available to print system
?S: error messages.
?S:.
?C:HAS_PERROR ~ %<:
?C: This symbol, if defined, indicates that the perror() routine is
?C: available to print system error messages. If not defined, you should
?C: use your own diagnostic routine...
?C:.
?C:perror ~ %<:
?C: This symbol is maped to null if the  perror() routine is not
?C: available to print system error messages.
?C:.
?H:?%<:#$d_perror HAS_PERROR /**/
?H:?%<:#ifndef HAS_PERROR
?H:?%<:#define perror(s) ;  /* mapped to a null statement */
?H:?%<:#endif
?H:.
?LINT:set d_perror
: see if perror exists
set perror d_perror
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_perror.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_internet.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_internet.U,v $
?RCS: Revision 3.0.1.1  1993/09/13  16:02:04  ram
?RCS: patch10: most mailers support Internet addresses nowadays (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_internet: Myread Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_internet:
?S: This variable conditionally defines the INTERNET symbol, which
?S: indicates to the C program that there is a mailer available
 which
?S: supports internet-style addresses (user@site.domain).
?S:.
?C:INTERNET:
?C: This symbol, if defined, indicates that there is a mailer available
?C: which supports internet-style addresses (user@site.domain).
?C:.
?H:#$d_internet INTERNET /**/
?H:.
?LINT:set d_internet
: check for internet mailer
dflt=y
case "$d_internet" in
"$undef") dflt=n;;
esac
cat <<EOM

Most mailers can deliver mail to addresses of the INTERNET persuasion,
such as user@host.edu.  Some older mailers, however, require the complete
path to the destination to be specified in the address.

EOM
rp="Does your mailer understand INTERNET addresses?"
. ./myread
```

```
case "$ans" in
y*) val="$define";;
*)  val="$undef";;
esac
set d_internet
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_internet.U
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```
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_pipe2: Inlibc
?MAKE: -pick add $@ %<
?S:d_pipe2:
?S: This variable conditionally defines the HAS_PIPE2 symbol, which
?S: indicates to the C program that the pipe2() routine is available
?S: to create an inter-process channel.
?S:.
?C:HAS_PIPE2:
?C: This symbol, if defined, indicates that the pipe2 routine is
?C: available to create an inter-process channel.
?C:.
?H:#$d_pipe2 HAS_PIPE2  /**/
?H:.
?LINT:set d_pipe2
: see if pipe2 exists
set pipe2 d_pipe2
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_pipe2.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endhent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
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```

```
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_endhent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_endhent: Inlibc
?MAKE: -pick add $@ %<
?S:d_endhent:
?S: This variable conditionally defines HAS_ENDHOSTENT if endhostent() is
?S: available to close whatever was being used for host queries.
?S:.
?C:HAS_ENDHOSTENT:
?C: This symbol, if defined, indicates that the endhostent() routine is
?C: available to close whatever was being used for host
 queries.
?C:.
?H:#$d_endhent HAS_ENDHOSTENT  /**/
?H:.
?LINT:set d_endhent
: see if endhostent exists
set endhostent d_endhent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_endhent.U
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```
?RCS: $Id$
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:usefaststdio: Myread Oldconfig Setvar rsrc
?MAKE: -pick add $@ %<
?Y:TOP
?S:usefaststdio:
?S: This variable conditionally defines the USE_FAST_STDIO symbol,
?S: and indicates that Perl should be built to use 'fast stdio'.
?S: Defaults to define in Perls 5.8 and earlier, to undef later.
?S:.
?C:USE_FAST_STDIO:
```

```
?C: This symbol, if defined, indicates that Perl should
?C: be built to use 'fast stdio'.
?C: Defaults to define in Perls 5.8 and earlier, to undef later.
?C:.
?H:?%<:#ifndef USE_FAST_STDIO
?H:?%<:#$usefaststdio USE_FAST_STDIO  /**/
?H:?%<:#endif
?H:.
?T:xversion
?LINT:set usefaststdio
: Check if faststdio is requested and available
case "$usefaststdio" in
$define|true|[yY]*|")
 xversion=`awk
 '/define[  ]+PERL_VERSION/ {print $3}' $rsrc/patchlevel.h`
 case "$xversion" in
 [68]) dflt='y' ;;
 *) dflt='n' ;;
 esac
 ;;
*) dflt='n';;
esac
cat <<EOM

Perl can be built to use 'fast stdio', which means using the stdio
library but also directly manipulating the stdio buffers to enable
faster I/O.  Using stdio is better for backward compatibility (especially
for Perl extensions), but on the other hand since Perl 5.8 the 'perlio'
interface has been preferred instead of stdio.

If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp='Use the "fast stdio" if available?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*)      val="$undef" ;;
esac
set usefaststdio
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/usefaststdio.U
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```
?RCS:
?MAKE:d_lrintl: Inlibc
?MAKE: -pick add $@ %<
?S:d_lrintl:
?S: This variable conditionally defines the HAS_LRINTL symbol, which
?S: indicates to the C program that the lrintl() routine is available
?S: to return the integral value closest to a long double (according
?S: to the current rounding mode).
?S:.
?C:HAS_LRINTL:
?C: This symbol, if defined, indicates that the lrintl routine is
?C: available to return the integral value closest to a long double
?C: (according to the current rounding mode).
?C:.
?H:#$d_lrintl HAS_LRINTL  /**/
?H:.
?LINT:set d_lrintl
: see if lrintl exists
set lrintl d_lrintl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lrintl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: cppfilecom.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Orginal Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: cppfilecom.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:37  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:cppfilecom cppstdinflags d_cppignhdrs d_cppcanstdin: \
 contains package test Myread Oldconfig Loc Setvar cpp cc cat rm
?MAKE: -pick add $@ %<
?S:cppfilecom:
?S: This variable contains the first part of the string which will invoke
?S: the C preprocessor a file
```

```
 and produce to standard output, preserving
?S: comments. Typical value of "cc -E -C" or "/lib/cpp -C".
?S:.
?S:cppstdinflags:
?S: This variable contains any flags necessary to get cppfilecom to read
?S: from the standard input.
?S:.
?S:d_cppignhdrs:
?S: This symbol conditionally defines CPP_IGN_HDRS if CPP_FILE_COM ignores
?S: *.h files.
?S:.
?S:d_cppcanstdin:
?S: This symbol conditionally defines CPP_CAN_STDIN if CPP_FILE_COM can
?S: read standard input directly.
?S:.
?C:CPP_FILE_COM (CPPFILECOM):
?C: This symbol contains the first part of the string which will invoke
?C: the C preprocessor a file and produce to standard output, preserving
?C: comments. Typical value of "cc -E -C" or "/lib/cpp -C".
?C:.
?C:CPP_STDIN_FLAGS (CPPSTDINFLAGS):
?C: This variable contains any flags necessary to get CPP_FILE_COM to
?C: read from the standard input.
?C:.
?C:CPP_IGN_HDRS (CPPIGNHDRS):
?C: This symbol is defined if CPP_FILE_COM ignores *.h files.
?C:.
?C:CPP_CAN_STDIN (CPPCANSTDIN):
?C: This
 symbol is defined if CPP_FILE_COM can read standard input
?C: directly.
?C:.
?H:#define CPP_FILE_COM "$cppfilecom"
?H:#define CPP_STDIN_FLAGS "$cppstdinflags"
?H:#$d_cppignhdrs CPP_IGN_HDRS  /* does CPP ignore .h files? */
?H:#$d_cppcanstdin CPP_CAN_STDIN  /* can CPP read stdin directly? */
?H:.
?T:cont
?F:!testcpp.c !testcpp.h !testcpp.out
?LINT:set d_cppcanstdin d_cppignhdrs
?LINT:usefile testcpp.c testcpp.out
: see how we invoke the C preprocessor
$cat <<EOM

$package needs to be able to preprocess its input files in a mode which
preserves comments, which is often not the default behaviour.  It should run
the C preprocessor you will use when compiling your own source code, which
should be ISO/ANSI C compliant if you want $package to handle the latest
```

```
standard C.  I will try to guess, but I might guess wrongly because it is not
necessarily the same preprocessor used to build $package.

EOM
$cat <<'EOT' >testcpp.c
#define ABC abc
#define XYZ xyz
ABC.XYZ
/* comment */
EOT
:
if $test "X$cppfilecom"
 != "X" && \
 $cppfilecom testcpp.c </dev/null >testcpp.out 2>/dev/null && \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
 $contains comment testcpp.out >/dev/null 2>&1
then
 echo "You used to use $cppfilecom so we'll use that again."
elif echo 'Maybe "'$cc' -E -C" will work...' && \
 $cc -E -C testcpp.c </dev/null >testcpp.out 2>/dev/null && \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
 $contains comment testcpp.out >/dev/null 2>&1
then
 echo "It works!"
 cppfilecom="$cc -E -C"
elif echo 'Nope...maybe """$cc"' -P -C" will work...' && \
 $cc -P -C testcpp.c </dev/null >testcpp.out 2>/dev/null && \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
 $contains comment testcpp.out >/dev/null 2>&1
then
 echo "Yup, that does."
 cppfilecom="$cc -P -C"
elif echo 'No such luck, maybe """$cpp"' -C" will work...' && \
 $cpp -C testcpp.c </dev/null >testcpp.out 2>/dev/null && \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
 $contains comment testcpp.out
 >/dev/null 2>&1
then
 echo "Yup, it does."
 cppfilecom="$cpp -C"
else
 cppfilecom="
 $cat <<'EOM'
I can't find a C preprocessor that will preserve comments. Please name one.
EOM
fi
:
dflt="$cppfilecom"
```

```
cont=true
while $test "$cont" ; do
 echo " "
 rp="How should $package run your preprocessor preserving comments?"
 . ./myread
 cppfilecom="$ans"
 $cppfilecom testcpp.c >testcpp.out 2>&1
 if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
  $contains comment testcpp.out >/dev/null 2>&1
 then
  echo "OK, that will do."
  cont=''
 else
  echo "Sorry, I can't get that to work."
 fi
done

@if CPP_IGN_HDRS || d_cppignhdrs
: Now see if it ignores header files.
cp testcpp.c testcpp.h
$cppfilecom testcpp.h >testcpp.out 2>&1
if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
 $contains comment testcpp.out >/dev/null 2>&1
then
 echo "Terrific; it processes .h files passed on the command line too."
 val="$undef"
else
 echo "It ignores .h files on the command line; pity."
 val="$define"
fi
set
 d_cppignhdrs
eval $setvar

@end
@if CPP_STDIN_FLAGS || CPP_CAN_STDIN || cppstdinflags || d_cppcanstdin
: Now see how to send stdin to it.
echo " "
cp testcpp.c testcpp.h
$cppfilecom <testcpp.h >testcpp.out 2>&1
if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
 $contains comment testcpp.out >/dev/null 2>&1
then
 echo "Great; and it will read stdin if passed no arguments."
 val="$define"
 cppstdinflags=''
else
 $cppfilecom - <testcpp.h >testcpp.out 2>&1
```

```
 if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
  $contains comment testcpp.out >/dev/null 2>&1
 then
  echo "Great; and it can read stdin by passing it '-'."
  val="$define"
  cppstdinflags='-'
 else
  $cat <<FOO
Unfortunately, I can't find an easy way to get that preprocessor to read from
standard input. Do you know any flags I can pass it to get it to do so?
If that preprocessor can't read directly form standard input, answer 'none'.

FOO
 val='dunno'
 while $test "$val" = "dunno"; do
  rp='Flags to get preprocessor
 to read stdin?'
  dflt='none'
  . ./myread
  if $test $ans = 'none'; then
   echo "Oh well, if $package wants it done, it will do it for itself."
   val="$undef"
  else
   $cppfilecom $ans <testcpp.h >testcpp.out 2>&1
   if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 && \
    $contains comment testcpp.out >/dev/null 2>&1
   then
    echo "Good; that works fine."
    val="$define"
    cppstdinflags="$ans"
   else
    echo "Sorry, I couldn't get that to work."
   fi
  fi
 done
 fi
fi
set d_cppcanstdin
eval $setvar

@end
: cleanup cpp test files anyway
$rm -f testcpp.*
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/cppfilecom.U

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```
?RCS: $Id: i_systimes.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_systimes.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_systimes: Inhdr
?MAKE: -pick add $@ %<
?S:i_systimes:
?S: This variable conditionally defines the I_SYS_TIMES symbol, and indicates
?S: whether a C program should include <sys/times.h>.
?S:.
?C:I_SYS_TIMES (I_SYSTIMES):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/times.h>.
?C:.
?H:#$i_systimes I_SYS_TIMES  /**/
?H:.
?LINT:set
 i_systimes
: see if this is a sys/times.h system
set sys/times.h i_systimes
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_systimes.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorarch.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
?RCS: $Log: vendorarch.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:d_vendorarch vendorarch vendorarchexp installvendorarch: sed Getfile \
 Setprefixvar Oldconfig Prefixit archname vendorlib vendorprefix test
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorarch:
?S: This variable contains the value of the PERL_VENDORARCH symbol.
?S: It may have a ~ on the front.
?S: The standard distribution will put nothing in this directory.
?S: Vendors
 who distribute perl may wish to place their own
?S: architecture-dependent modules and extensions in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorarchexp:
?S: This variable is the ~name expanded version of vendorarch, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorarch=''
?S:installvendorarch:
?S: This variable is really the same as vendorarchexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?S:d_vendorarch:
?S: This variable conditionally defined PERL_VENDORARCH.
?S:.
?C:PERL_VENDORARCH:
?C: If defined, this symbol contains the name of a private library.
?C: The library is private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.
?C: It may have a ~ on the front.
?C: The standard distribution will put nothing in this
 directory.
?C: Vendors who distribute perl may wish to place their own
?C: architecture-dependent modules and extensions in this directory with
?C:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?C: or equivalent.  See INSTALL for details.
?C:.
?C:PERL_VENDORARCH_EXP:
?C: This symbol contains the ~name expanded version of PERL_VENDORARCH, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
```

```
?H:#$d_vendorarch PERL_VENDORARCH "$vendorarch"  /**/
?H:#$d_vendorarch PERL_VENDORARCH_EXP "$vendorarchexp"  /**/
?H:.
?LINT:change prefixvar
?LINT:set installvendorarch
: Set the vendorarch variables
case "$vendorprefix" in
") d_vendorarch="$undef"
 vendorarch="
 vendorarchexp="
 ;;
*) d_vendorarch="$define"
 : determine where vendor-supplied architecture-dependent libraries go.
 : vendorlib  default is /usr/local/lib/perl5/vendor_perl/$version
 : vendorarch default is /usr/local/lib/perl5/vendor_perl/$version/$archname
 : vendorlib may have an optional trailing
 /share.
 case "$vendorarch" in
 ") dflt=`echo $vendorlib | $sed 's,/share$,,'`
  dflt="$dflt/$archname"
  ;;
 *) dflt="$vendorarch" ;;
 esac
 fn=d~+
 rp='Pathname for vendor-supplied architecture-dependent files?'
 . ./getfile
 vendorarch="$ans"
 vendorarchexp="$ansexp"
 ;;
esac
prefixvar=vendorarch
. ./installprefix
if $test X"$vendorarch" = X"$vendorlib"; then
 d_vendorarch="$undef"
else
 d_vendorarch="$define"
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/vendorarch.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: ebcdic.U,v 3.0.1.3 1994/05/06 15:11:49 doughera Exp $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Original author Jarkko Hietaniemi <jhi@iki.fi>
?RCS: Merged into dist by Andy Dougherty  July 13, 1998
?RCS:
?MAKE:ebcdic: Compile Setvar cat rm_try run
?MAKE: -pick add $@ %<
?S:ebcdic:
?S: This variable conditionally defines EBCDIC if this
?S: system uses EBCDIC encoding.
?S:.
?C:EBCDIC:
?C: This symbol, if defined, indicates that this system uses
?C: EBCDIC encoding.
?C:.
?H:#$ebcdic EBCDIC  /**/
?H:.
?F:!try
?LINT:set ebcdic
: Determine if this is an EBCDIC system
echo " "
echo "Determining whether or not we are on an EBCDIC system..." >&4
$cat >try.c <<'EOM'
int main()
{
 if ('M'==0xd4) return 0;
 return 1;
}
EOM

val=$undef
set try
if eval
 $compile_ok; then
 if $run ./try; then
  echo "You seem to speak EBCDIC." >&4
  val="$define"
 else
  echo "Nope, no EBCDIC, probably ASCII or some ISO Latin. Or UTF-8." >&4
 fi
else
 echo "I'm unable to compile the test program." >&4
 echo "I'll assume ASCII or some ISO Latin. Or UTF8." >&4
fi
$rm_try
set ebcdic
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/ebcdic/ebcdic.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: Original author Jarkko Hietaniemi <jhi@iki.fi>
?RCS: Merged into dist by Andy Dougherty  July 13, 1998
?RCS:
?MAKE:ebcdic: Compile Setvar cat rm_try run
?MAKE: -pick add $@ %<
?S:ebcdic:
?S: This variable conditionally defines EBCDIC if this
?S: system uses EBCDIC encoding.  Among other things, this
?S: means that the character ranges are not contiguous.
?S: See trnl.U
?S:.
?C:EBCDIC:
?C:     This symbol, if defined, indicates that this system uses
?C: EBCDIC
 encoding.
?C:.
?H:#$ebcdic EBCDIC   /**/
?H:.
?F:!try
?LINT:set ebcdic
: look whether system uses EBCDIC
echo " "
echo "Determining whether or not we are on an EBCDIC system..." >&4
$cat >try.c <<'EOM'
int main()
{
 if ('M'==0xd4) return 0;
 return 1;
}
EOM
val=$undef
```

```
set try
if eval $compile_ok; then
 if $run ./try; then
  echo "You seem to speak EBCDIC." >&4
  val="$define"
 else
  echo "Nope, no EBCDIC, probably ASCII or some ISO Latin. Or UTF-8." >&4
 fi
else
 echo "I'm unable to compile the test program." >&4
 echo "I'll assume ASCII or some ISO Latin. Or UTF8." >&4
fi
$rm_try
set ebcdic
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/ebcdic.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sgndchr.U,v 3.0.1.2 1997/02/28 15:44:25 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_sgndchr.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:44:25  ram
?RCS: patch61: added a ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  14:00:24  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:16  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sgndchr: cat rm Compile Setvar run
?MAKE: -pick add $@ %<
?S:d_sgndchr:
?S: This variable conditionally defines the SIGNEDCHAR
 symbol, which
?S: indicates to the C program that signed characters are available.
?S:.
```

```
?C:SIGNEDCHAR:
?C: This symbol, if defined, indicates that characters are a signed type.
?C: If not defined, things declared as signed characters (and that make
?C: use of negative values) should probably be declared as shorts instead.
?C:.
?H:#$d_sgndchr SIGNEDCHAR /**/
?H:.
?F:!try
?LINT:set d_sgndchr
: check for signed chars
echo " "
echo "Checking to see if your C compiler can do signed chars..." >&4
$cat >try.c <<'EOCP'
int main()
{
 char c = 0;

 c--;
 exit(c >= 0);
}
EOCP
set try
if eval $compile && $run ./try; then
if $run ./try; then
 val="$define"
 echo "It certainly can."
else
 val="$undef"
 echo "It can't.  I'll have to make some things type short."
fi
set d_sgndchr
eval $setvar
$rm -f try*
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_sgndchr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: abortsig.U,v 3.0.1.1 1994/10/29 16:02:19 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
?RCS: $Log: abortsig.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:02:19  ram
?RCS: patch36: call ./usg explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:20  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:abortsig: Myread Oldconfig Guess cat Compile rm
?MAKE: -pick add $@ %<
?S:abortsig:
?S: This variable holds the name of the signal used by the abort() call.
?S:.
?C:ABORTSIG:
?C: This symbol holds the signal number (symbol)
 used by the abort() call. To
?C: actually define the signal symbol, <signal.h> should be included.
?C:.
?H:#define ABORTSIG $abortsig  /**/
?H:.
?T:signal
: which signal is sent by abort ?
echo " "
case "$abortsig" in
")
 echo "Checking to see which signal is sent to the process by abort()..." >&4
 echo "abort" > abort.sh
 chmod +x abort.sh
?X: SIGABRT should replace SIGIOT on USG machines in a near future (1991).
 for signal in SIGIOT SIGILL SIGABRT; do
  case "$abortsig" in
  ") $cat >abort.c <<EOP
#include <signal.h>
caught() { exit(0); }
int main()
{
#ifdef $signal
 signal($signal, caught);
#endif
 if (-1 == abort())
  exit(1);
 exit(1);
}
EOP
?X: We have to use the abort.sh script otherwise sh behaves strangely on AIX.
   set abort
   if eval $compile; then
    (./abort.sh) >/dev/null 2>&1
```

```
    case $? in
    0) abortsig="$signal";;
    esac
   fi
   ;;
  esac
 done
 ;;
esac
case "$abortsig" in
") echo "(I wasn't able to compute the signal name--guessing)"
 if ./usg; then
  dflt="SIGIOT"
 else
  dflt="SIGILL"
 fi;;
*)
  dflt="$abortsig"
 ;;
esac
rp="Which signal does abort() send to the process (signal name)?"
. ./myread
abortsig="$ans"
$rm -f core abort.sh abort abort.c
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/abortsig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X: This unit generates a $hasstruct string that is used internally
?X: by Configure to check if this system has a field for a
?X: particular struct (of if this system has a particular struct!)
?X:
?X: To use it, say something like:
?X:  set d_statblocks stat i_sysstat sys/stat.h
?X:  eval $hasstruct
?X: Or, for more complicated sets of headers, do something like
?X: hdrs="$define sys/foo.h
?X:  $i_sysbar sys/bar.h
?X:  $i_syszot sys/zot.h
```

```
?X:  $i_zappa zappa.h"
?X: set d_statblocks stat $hdrs
?X: eval $hasstruct
?X:
?MAKE:Hasstruct: Setvar rm_try test Compile
?MAKE: -pick add $@ %<
?T:varname struct
?V:hasstruct
: Define hasstruct macro for Configure internal use
hasstruct='varname=$1; struct=$2; shift;
 shift;
while $test $# -ge 2; do
 case "$1" in
 $define) echo "#include <$2>";;
 esac ;
   shift 2;
done > try.c;
echo "int main () { struct $struct foo; }" >> try.c;
set try;
if eval $compile; then
 val="$define";
else
 val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try'
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/Hasstruct.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strftime: Inlibc
?MAKE: -pick add $@ %<
?S:d_strftime:
?S: This variable conditionally defines the HAS_STRFTIME symbol, which
?S: indicates to the C program that the strftime() routine is available.
?S:.
?C:HAS_STRFTIME:
?C: This symbol, if defined, indicates that the strftime routine is
```

```
?C: available to do time formatting.
?C:.
?H:#$d_strftime HAS_STRFTIME  /**/
?H:.
?LINT:set d_strftime
: see if strftime exists
set strftime d_strftime
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strftime.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_neterrno.U,v 3.0.1.3 1994/10/29 16:20:29 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_neterrno.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:20:29  ram
?RCS: patch36: forgot to initialize 'val' to an empty value (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:22:10  ram
?RCS: patch32: removed spurious echo
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:02:05  ram
?RCS: patch30: created by ADO
?RCS:
?MAKE:i_neterrno: Inhdr +cc +ccflags rm_try Setvar
?MAKE: -pick
 add $@ %<
?S:i_neterrno:
?S: This variable conditionally defines the I_NET_ERRNO symbol, which
?S: indicates to the C program that <net/errno.h> exists and should
?S: be included.
?S:.
?C:I_NET_ERRNO:
?C: This symbol, if defined, indicates that <net/errno.h> exists and
?C: should be included.
?C:.
```

```
?H:#$i_neterrno I_NET_ERRNO  /**/
?H:.
?LINT:set i_neterrno
: see if net/errno.h is available
val=''
set net/errno.h val
eval $inhdr

: Unfortunately, it causes problems on some systems.  Arrgh.
case "$val" in
$define)
 cat > try.c <<'EOM'
#include <stdio.h>
#include <errno.h>
#include <net/errno.h>
int func()
{
 return ENOTSOCK;
}
EOM
 if $cc $ccflags -c try.c >/dev/null 2>&1; then
  echo "We'll be including <net/errno.h>." >&4
 else
  echo "We won't be including <net/errno.h>." >&4
  val="$undef"
 fi
 $rm_try
 ;;
esac
set i_neterrno
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_neterrno.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: rootid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: rootid.U,v $
```

```
?RCS: Revision 3.0.1.1  1995/01/30  14:45:36  ram
?RCS: patch49: now only prints a single empty line when outputting something
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:rootid: sed
?MAKE: -pick add $@ %<
?S:rootid:
?S: This variable contains the eventual value of the ROOTID symbol,
?S: which is the uid of root.
?S:.
?C:ROOTID:
?C: This symbol contains the uid of root, normally
 0.
?C:.
?H:#define ROOTID $rootid  /**/
?H:.
: determine root id
rootid=`$sed -e "/^root:/{s/^[^:]*:[^:]*:\([^:]*\).*'''$'''/\1/" -e "q" -e "}" -e "d" </etc/passwd`
case "$rootid" in
") rootid=0 ;;
*) echo " "; echo "Root uid = $rootid" >&4 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/rootid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_string.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_string.U,v $
?RCS: Revision 3.0.1.2  1993/10/16  13:50:12  ram
?RCS: patch12: special units Loc and Guess were missing from dependencies
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:07:26  ram
?RCS: patch10: removed "(Actually, this looks more like...)" messages (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:28  ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: See if we should include <string.h> or <strings.h>
?X:
?MAKE:i_string strings:
 test Setvar Findhdr Warn
?MAKE: -pick add $@ %<
?S:i_string:
?S: This variable conditionally defines the I_STRING symbol, which
?S: indicates that <string.h> should be included rather than <strings.h>.
?S:.
?S:strings:
?S: This variable holds the full path of the string header that will be
?S: used. Typically /usr/include/string.h or /usr/include/strings.h.
?S:.
?C:I_STRING:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <string.h> (USG systems) instead of <strings.h> (BSD systems).
?C:.
?H:#$i_string I_STRING  /**/
?H:.
?LINT:set i_string
: see which of string.h or strings.h is needed
echo " "
strings=`./findhdr string.h`
if $test "$strings" && $test -r "$strings"; then
 echo "Using <string.h> instead of <strings.h>." >&4
 val="$define"
else
 val="$undef"
 strings=`./findhdr strings.h`
 if $test "$strings" && $test -r "$strings"; then
  echo "Using <strings.h> instead of <string.h>." >&4
 else
  ./warn "No string header found -- You'll surely
 have problems."
 fi
fi
set i_string
eval $setvar
case "$i_string" in
"$undef") strings=`./findhdr strings.h`;;
*)   strings=`./findhdr string.h`;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/dist/U/i_string.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysstatvfs.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysstatvfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysstatvfs:
?S: This variable conditionally defines the I_SYSSTATVFS symbol,
?S: and indicates whether a C program should include <sys/statvfs.h>.
?S:.
?C:I_SYS_STATVFS:
?C: This symbol, if defined, indicates that <sys/statvfs.h> exists and
?C: should be included.
?C:.
?H:#$i_sysstatvfs I_SYS_STATVFS  /**/
?H:.
?LINT:set i_sysstatvfs
: see if this is a sys/statvfs.h system
set sys/statvfs.h i_sysstatvfs
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysstatvfs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_fp.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_fp: Inhdr
?MAKE: -pick add $@ %<
?S:i_fp:
?S: This variable conditionally defines the I_FP symbol, and indicates
?S: whether a C program should include <fp.h>.
?S:.
?C:I_FP:
?C: This symbol, if defined, indicates that <fp.h> exists and
?C: should be included.
```

```
?C:.
?H:#$i_fp I_FP  /**/
?H:.
?LINT:set i_fp
: see if this is a fp.h system
set fp.h i_fp
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_fp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getservbyname_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getservbyname_r getservbyname_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getservbyname_r:
?S: This variable conditionally defines the HAS_GETSERVBYNAME_R symbol,
?S: which indicates to the C program that the getservbyname_r()
?S: routine is available.
?S:.
?S:getservbyname_r_proto:
?S: This variable encodes the prototype of getservbyname_r.
?S: It is zero if d_getservbyname_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getservbyname_r
?S: is defined.
?S:.
?C:HAS_GETSERVBYNAME_R:
?C: This symbol, if defined, indicates
 that the getservbyname_r routine
?C: is available to getservbyname re-entrantly.
?C:.
?C:GETSERVBYNAME_R_PROTO:
?C: This symbol encodes the prototype of getservbyname_r.
?C: It is zero if d_getservbyname_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getservbyname_r
?C: is defined.
?C:.
?H:#$d_getservbyname_r HAS_GETSERVBYNAME_R /**/
?H:#define GETSERVBYNAME_R_PROTO $getservbyname_r_proto /**/
```

```
?H:.
?T:try hdrs d_getservbyname_r_proto
: see if getservbyname_r exists
set getservbyname_r d_getservbyname_r
eval $inlibc
case "$d_getservbyname_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getservbyname_r_proto:$usethreads" in
 ":define") d_getservbyname_r_proto=define
  set d_getservbyname_r_proto getservbyname_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getservbyname_r_proto" in
 define)
 case "$getservbyname_r_proto" in
 "|0) try='int getservbyname_r(const char*, const char*, struct servent*, char*,
 size_t, struct servent**);'
 ./protochk "$extern_C $try" $hdrs && getservbyname_r_proto=I_CCSBWR ;;
 esac
 case "$getservbyname_r_proto" in
 "|0) try='struct servent* getservbyname_r(const char*, const char*, struct servent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getservbyname_r_proto=S_CCSBI ;;
 esac
 case "$getservbyname_r_proto" in
 "|0) try='int getservbyname_r(const char*, const char*, struct servent*, struct servent_data*);'
 ./protochk "$extern_C $try" $hdrs && getservbyname_r_proto=I_CCSD ;;
 esac
 case "$getservbyname_r_proto" in
 "|0) d_getservbyname_r=undef
  getservbyname_r_proto=0
  echo "Disabling getservbyname_r, cannot determine prototype." >&4 ;;
 * ) case "$getservbyname_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getservbyname_r_proto="REENTRANT_PROTO_$getservbyname_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getservbyname_r has no prototype, not using it." >&4 ;;
  esac
  d_getservbyname_r=undef
  getservbyname_r_proto=0
  ;;
 esac
 ;;
```

```
*) getservbyname_r_proto=0
 ;;
esac
```

Found
 in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getservbyname_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fmod.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_fmod.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:12:46  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_fmod: Inlibc
?MAKE: -pick add $@ %<
?S:d_fmod:
?S: This variable conditionally defines the HAS_FMOD symbol, which
?S: indicates to the C program that the fmod() routine is available.
?S: See also d_drem for the drem() routine which does roughly the same.
?S:.
?C:HAS_FMOD
 :
?C: This symbol, if defined, indicates that the fmod routine is
?C: available to compute the remainder r=x-n*y where n=trunc(x/y).
?C:.
?H:#$d_fmod HAS_FMOD  /**/
?H:.
?LINT:set d_fmod
: see if fmod exists
set fmod d_fmod
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_fmod.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pipe.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_pipe.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:11:44  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_pipe: Inlibc
?MAKE: -pick add $@ %<
?S:d_pipe:
?S: This variable conditionally defines the HAS_PIPE symbol, which
?S: indicates to the C program that the pipe() routine is available
?S: to create an inter-process channel.
?S:.
?C:HAS_PIPE :
?C: This symbol, if defined, indicates
 that the pipe routine is
?C: available to create an inter-process channel.
?C:.
?H:#$d_pipe HAS_PIPE  /**/
?H:.
?LINT:set d_pipe
: see if pipe exists
set pipe d_pipe
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_pipe.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
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```

```
?RCS:
?MAKE:d_off64_t: \
 Inlibc Setvar Compile rm_try cat lseeksize
?MAKE: -pick add $@ %<
?S:d_off64_t:
?S: This symbol will be defined if the C compiler supports off64_t.
?S:.
?C:HAS_OFF64_T:
?C: This symbol will be defined if the C compiler supports off64_t.
?C:.
?H:#$d_off64_t HAS_OFF64_T  /**/
?H:.
?LINT:set d_off64_t
: check for off64_t
echo " "
echo "Checking to see if you have off64_t..." >&4
$cat >try.c <<EOCP
#include <sys/types.h>
#include <unistd.h>
int main() { off64_t x = 7; }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have off64_t."
else
 val="$undef"
 echo "You do not have off64_t."
 case "$lseeksize" in
 8) echo "(Your off_t is 64 bits, so you could use that.)" ;;
 esac
fi
$rm_try
set
 d_off64_t
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_off64_t.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_eofpipe.U,v 3.0.1.1 1994/10/29 16:12:40 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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```

```
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_eofpipe.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:12:40  ram
?RCS: patch36: call ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_eofpipe: Compile cat rm Oldconfig Guess echo n c
?MAKE: -pick add $@ %<
?S:d_eofpipe:
?S: This variable conditionally defines the EOFPIPE symbol, which
?S: indicates to the C program that select will correctly detect
 the EOF
?S: condition when pipe is closed from the other end.
?S:.
?C:EOFPIPE:
?C: This symbol, if defined, indicates that EOF condition will be detected
?C: by the reader of the pipe when it is closed by the writing process.
?C: That is, a select() call on that file descriptor will not block when
?C: only an EOF remains (typical behavior for BSD systems).
?C:.
?H:#$d_eofpipe EOFPIPE  /**/
?H:.
?F:!mpipe
: see if pipe correctly gives the EOF condition
echo " "
case "$d_eofpipe" in
")
 echo "Let's see if your pipes return EOF to select() upon closing..." >&4
 $cat >pipe.c <<'EOP'
int main()
{
 int pd[2];
 int mask;

 pipe(pd);
 if (0 == fork()) {
  close(pd[0]);
  close(pd[1]);
  exit(0);
 }

 close(pd[1]);
 mask = 1 << pd[0];
```

```
 alarm(2);
 select(32, &mask, (int *) 0, (int *) 0, (char *) 0);
 if (0 == read(pd[0], &mask, 1))
  exit(0);

 exit(1);
}
EOP
 set pipe
 if eval $compile_ok; then
?X: Use a script to avoid the possible 'alarm call' message
  echo "./pipe || exit 1" > mpipe
  chmod
 +x mpipe
  ./mpipe >/dev/null 2>&1
  case $? in
  0) d_eofpipe="$define";;
  *) d_eofpipe="$undef";;
  esac
 else
  echo "(The test program did not compile correctly -- Guessing.)"
  if ./bsd; then
   d_eofpipe="$define"
  else
   d_eofpipe="$undef"
  fi
 fi
 case "$d_eofpipe" in
 "$define") echo "Yes, they do.";;
 *) echo "No, they don't! (sigh)";;
 esac
 ;;
*)
 $echo $n "Your pipes $c"
 case "$d_eofpipe" in
 "$define") echo "allow select() to see EOF upon closing.";;
 *) echo "won't let select() see EOF on closing.";;
 esac
 ;;
esac
$rm -f *pipe* core
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_eofpipe.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_dosuid.U 1 2006-08-24 12:32:52Z rmanfredi $

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Tye McQueen <tye@metronet.com> added safe setuid script checks.
?RCS:
?RCS: $Log: d_dosuid.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:33:03  ram
?RCS: patch61: moved unit to TOP via a ?Y: layout directive
?RCS: patch61: tell them /dev/fd is not about floppy disks
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:12:08  ram
?RCS: patch36: added checks for secure setuid scripts (Tye McQueen)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:55  ram
?RCS: Baseline for
 dist 3.0 netwide release.
?RCS:
?MAKE:d_dosuid d_suidsafe: cat contains ls rm test Myread Setvar \
 Oldconfig Guess package hint patchlevel
?MAKE: -pick add $@ %<
?S:d_suidsafe:
?S: This variable conditionally defines SETUID_SCRIPTS_ARE_SECURE_NOW
?S: if setuid scripts can be secure.  This test looks in /dev/fd/.
?S:.
?S:d_dosuid:
?S: This variable conditionally defines the symbol DOSUID, which
?S: tells the C program that it should insert setuid emulation code
?S: on hosts which have setuid #! scripts disabled.
?S:.
?C:SETUID_SCRIPTS_ARE_SECURE_NOW:
?C: This symbol, if defined, indicates that the bug that prevents
?C: setuid scripts from being secure is not present in this kernel.
?C:.
?C:DOSUID:
?C: This symbol, if defined, indicates that the C program should
?C: check the script that it is executing for setuid/setgid bits, and
?C: attempt to emulate setuid/setgid on systems that have disabled
?C: setuid #! scripts because the kernel can't do it securely.
?C: It is up to the package
 designer to make sure that this emulation
?C: is done securely.  Among other things, it should do an fstat on
?C: the script it just opened to make sure it really is a setuid/setgid
```

```
?C: script, it should make sure the arguments passed correspond exactly
?C: to the argument on the #! line, and it should not trust any
?C: subprocesses to which it must pass the filename rather than the
?C: file descriptor of the script to be executed.
?C:.
?H:#$d_suidsafe SETUID_SCRIPTS_ARE_SECURE_NOW /**/
?H:#$d_dosuid DOSUID  /**/
?H:.
?Y:TOP
?F:!reflect
?LINT: set d_suidsafe
: see if setuid scripts can be secure
$cat <<EOM

Some kernels have a bug that prevents setuid #! scripts from being
secure.  Some sites have disabled setuid #! scripts because of this.

First let's decide if your kernel supports secure setuid #! scripts.
(If setuid #! scripts would be secure but have been disabled anyway,
don't say that they are secure if asked.)

EOM

val="$undef"
if $test -d /dev/fd; then
 echo "#!$ls" >reflect
 chmod
 +x,u+s reflect
 ./reflect >flect 2>&1
 if $contains "/dev/fd" flect >/dev/null; then
  echo "Congratulations, your kernel has secure setuid scripts!" >&4
  val="$define"
 else
  $cat <<EOM
If you are not sure if they are secure, I can check but I'll need a
username and password different from the one you are using right now.
If you don't have such a username or don't want me to test, simply
enter 'none'.

EOM
  rp='Other username to test security of setuid scripts with?'
  dflt='none'
  . ./myread
  case "$ans" in
  n|none)
   case "$d_suidsafe" in
   ") echo "I'll assume setuid scripts are *not* secure." >&4
    dflt=n;;
```

```
   "$undef")
    echo "Well, the $hint value is *not* secure." >&4
    dflt=n;;
   *) echo "Well, the $hint value *is* secure." >&4
    dflt=y;;
   esac
   ;;
  *)
   $rm -f reflect flect
   echo "#!$ls" >reflect
   chmod +x,u+s reflect
   echo >flect
   chmod a+w flect
   echo '"su" will (probably) prompt you for '"$ans's password."
   su $ans -c './reflect
 >flect'
   if $contains "/dev/fd" flect >/dev/null; then
    echo "Okay, it looks like setuid scripts are secure." >&4
    dflt=y
   else
    echo "I don't think setuid scripts are secure." >&4
    dflt=n
   fi
   ;;
  esac
  rp='Does your kernel have *secure* setuid scripts?'
  . ./myread
  case "$ans" in
  [yY]*) val="$define";;
  *) val="$undef";;
  esac
 fi
else
 echo "I don't think setuid scripts are secure (no /dev/fd directory)." >&4
 echo "(That's for file descriptors, not floppy disks.)"
 val="$undef"
fi
set d_suidsafe
eval $setvar

$rm -f reflect flect

: now see if they want to do setuid emulation
if $test $patchlevel -lt 11; then
echo " "
val="$undef"
case "$d_suidsafe" in
"$define")
```

```
 val="$undef"
 echo "No need to emulate SUID scripts since they are secure here." >&4
 ;;
*)
 $cat <<EOM
Some systems have disabled setuid scripts, especially systems where
setuid scripts cannot be secure.  On systems where setuid scripts have
been disabled, the setuid/setgid bits on scripts are
 currently
useless.  It is possible for $package to detect those bits and emulate
setuid/setgid in a secure fashion.  This emulation will only work if
setuid scripts have been disabled in your kernel.

EOM
 case "$d_dosuid" in
 "$define") dflt=y ;;
 *) dflt=n ;;
 esac
 rp="Do you want to do setuid/setgid emulation?"
 . ./myread
 case "$ans" in
 [yY]*) val="$define";;
 *) val="$undef";;
 esac
 ;;
esac
set d_dosuid
eval $setvar
else
   case "$d_dosuid" in
 "$define")
 cat >&4 <<EOH

SUID emulation has been removed for 5.12
Please re-run Configure without -Dd_dosuid

EOH
 exit 1;
 ;;
   esac
   d_dosuid=undef
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_dosuid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: charorder.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:07:08  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:33  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:chorder_int chorder_short chorder_long: Myread cat +cc +ccflags rm
?MAKE: -pick add $@ %<
?S:chorder_short (d_cos d_bos):
?S: Holds the value describing the byte ordering of characters in a short.
?S: On a Big-Endian machine, that would be "c0c1".
?S:.
?S:chorder_int
 (charoder):
?S: Holds the value describing the byte ordering of characters in an int.
?S: For instance, on a Big-Endian machine, this would be: "c0c1c2c3".
?S:.
?S:chorder_long (d_col d_bol):
?S: Holds the value describing the byte ordering of characters in a long.
?S: On a 64 bits Big-Endian machine, that would yield: "c0c1c2c3c4c5c6c7".
?S:.
?C:CHAR_ORDER_SHORT:
?C: Holds the byte ordering of characters in a short. It's a string
?C: value like "c0c1" on a Big-Endian machine.
?C:.
?C:CHAR_ORDER_INT:
?C: Holds the byte ordering of characters in an int. It's a string
?C: value like "c0c1c2c3" on a Big-Endian machine.
?C:.
?C:CHAR_ORDER_LONG:
?C: Holds the byte ordering of characters in a long. It's a string
?C: value like "c0c1c2c3c4c5c6c7" on a 64 bits Big-Endian machine.
?C:.
?H:#define CHAR_ORDER_SHORT "$chorder_short" /* byte order in a short */
?H:#define CHAR_ORDER_INT "$chorder_int" /* byte order in an int */
?H:#define CHAR_ORDER_LONG "$chorder_long" /* byte order in a long */
?H:.
```

```
?F:!byteorder
:
 check for character ordering
echo " "
echo "Checking out byte order..." >&4
$cat >byteorder.c <<'EOCP'
#include <stdio.h>

main(argc, argv)
 int argc;
 char *argv[]; {
 int i;
 int max;
 union {
  short u_s;
  int u_i;
  long u_l;
  char u_c[sizeof(long)];
 } u;
 switch (argv[1][0]) {
 case 'l':
  u.u_l = 0L;
  /* HMS: ASSERT: sizeof(long) < 10. */
  for(i = 0; i < sizeof(long); ++i) {
   u.u_l *= 0x100L;
   u.u_l += (0xc0 + i);
  }
  max = sizeof(long);
  break;
 case 's':
  u.u_s = 0;
  /* HMS: ASSERT: sizeof(short) < 10. */
  for(i = 0; i < sizeof(short); ++i) {
   u.u_s *= 0x100L;
   u.u_s += (0xc0 + i);
  }
  max = sizeof(short);
  break;
 case 'i':
  u.u_i = 0;
  /* RAM: ASSERT: sizeof(int) < 10. */
  for(i = 0; i < sizeof(int); ++i) {
   u.u_l *= 0x100L;
   u.u_l += (0xc0 + i);
  }
  max = sizeof(int);
  break;
 default:
```

```
  max = 0;
  break;
 }
 for(i = 0; i < max; i++) {
  printf("%x", u.u_c[i] & 0x00FF);
 }
 printf("\n");
 exit(0);
}
EOCP
if $cc $ccflags -o
 byteorder byteorder.c >/dev/null 2>&1 ; then
 : null statement
@if chorder_short
   chorder_short=`./byteorder s`
@end
@if chorder_int
   chorder_int=`./byteorder i`
@end
@if chorder_long
   chorder_long=`./byteorder l`
@end
else
 $cat <<EOM
(I can't seem to get my test program to work.  Guessing 32 bits big-endian.)
EOM
   chorder_short="c0c1"
   chorder_int="c0c1c2c3"
   chorder_long="c0c1c2c3"
fi
@if chorder_short
dflt=$chorder_short
rp='What is the order of characters in a short?'
. ./myread
chorder_short="$ans"
@end
@if chorder_int
dflt=$chorder_int
rp='What is the order of characters in an int?'
. ./myread
chorder_int="$ans"
@end
@if chorder_long
dflt=$chorder_long
rp='What is the order of characters in a long?'
. ./myread
chorder_long="$ans"
@end
```

```
$rm -f byteorder* core
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/charorder.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: cc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cc.U,v $
?RCS: Revision 3.0.1.4  1995/05/12  12:06:47  ram
?RCS: patch54: may now abort Configure when cc does not work
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:20:11  ram
?RCS: patch45: changed gcc checking message to a more explicit one (WED)
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:04:29  ram
?RCS: patch36: detect gcc even when not called as 'gcc' (ADO)
?RCS: patch36: simplified gcc version checking (ADO)
?RCS: patch36: added ?F: line for metalint
 file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:26:06  ram
?RCS: patch23: added support for gcc version (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:30  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:cc: Myread Oldconfig Checkcc test
?MAKE: -pick add $@ %<
?S:cc:
?S: This variable holds the name of a command to execute a C compiler which
?S: can resolve multiple global references that happen to have the same
?S: name.  Usual values are 'cc' and 'gcc'.
?S: Fervent ANSI compilers may be called 'c89'.  AIX has xlc.
?S:.
?F:!cc.cbu
?D:cc='cc'
: Determine the C compiler to be used
echo " "
```

```
case "$cc" in
") dflt=cc;;
*) dflt="$cc";;
esac
rp="Use which C compiler?"
. ./myread
cc="$ans"

: See whether they have no cc but they do have gcc
. ./trygcc
?X: Look for a hint-file generated 'call-back-unit'.  Now that the
?X: user has specified the compiler, we may need to set or change some
?X: other defaults.
if $test -f cc.cbu; then
   . ./cc.cbu
fi
. ./checkcc
```

Found
 in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/cc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_mbtowc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_mbtowc.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:30  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_mbtowc: Inlibc
?MAKE: -pick add $@ %<
?S:d_mbtowc:
?S: This variable conditionally defines the HAS_MBTOWC symbol, which
?S: indicates to the C program that the mbtowc() routine is available
?S: to convert multibyte to a wide character.
?S:.
?C:HAS_MBTOWC (MBTOWC):
?C: This symbol, if defined, indicates that the mbtowc routine is available
?C: to
```

```
 convert a multibyte to a wide character.
?C:.
?H:#$d_mbtowc HAS_MBTOWC  /**/
?H:.
?LINT:set d_mbtowc
: see if mbtowc exists
set mbtowc d_mbtowc
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_mbtowc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: prefshell.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: prefshell.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:28:13  ram
?RCS: patch36: added SHELL temporary since metalint now sees ${SHELL}
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:11:47  ram
?RCS: patch10: non-portable var substitution was used (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:34  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:prefshell: cat package Getfile Oldconfig ksh csh bash
?MAKE: -pick add $@ %<
?S:prefshell:
?S: This
 variable contains the eventual value of the PREFSHELL symbol,
?S: which contains the full name of the preferred user shell on this
?S: system.  Usual values are /bin/csh, /bin/ksh, /bin/sh.
?S:.
?C:PREFSHELL:
?C: This symbol contains the full name of the preferred user shell on this
?C: system.  Usual values are /bin/csh, /bin/ksh, /bin/sh.
?C:.
?H:#define PREFSHELL "$prefshell"  /**/
?H:.
```

```
?T:SHELL
: find out which shell people like to use most
case "$prefshell" in
")
 case "$ksh $bash $csh" in
 */ksh*) dflt="$ksh" ;;
 */bash*) dflt="$bash" ;;
 */csh*) dflt="$csh" ;;
 *) dflt='/bin/sh' ;;
 esac
 ;;
*)  dflt="$prefshell";;
esac
?X: Some shells (Ultrix) do not understand ${SHELL:-/bin/sh}, sigh!
$cat <<EOM

Give the full path name of the shell most people like to use on your system.
This will be used by $package whenever the user wants to get a shell
escape (for instance) and is not necessarily the same as the shell you are
currently using (${SHELL-/bin/sh}).

EOM
fn=f/~
rp='Preferred
 shell to be used?'
. ./getfile
prefshell=$ans
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/prefshell.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Loc.U 14 2006-08-28 16:51:14Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Loc.U,v $
?RCS: Revision 3.0.1.10  1997/02/28  15:04:16  ram
?RCS: patch61: allow users to specify paths on the command line
?RCS: patch61: will now substitute cp for ln if not supported
?RCS:
```

```
?RCS: Revision 3.0.1.9  1995/09/25  09:11:24  ram
?RCS: patch59: commented the purpose of the #un-def directive
?RCS: patch59: abort Configure run when mandatory command is missing
?RCS:
?RCS: Revision 3.0.1.8  1995/07/25  13:40:40  ram
?RCS: patch56: now knows about
 OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.7  1995/01/11  15:13:37  ram
?RCS: patch45: protected "sh -c" within backquotes for Linux and SGI
?RCS: patch45: added path lookup for the 'comm' program
?RCS:
?RCS: Revision 3.0.1.6  1994/10/29  15:56:14  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: be careful and guard against wildcard searching (ADO)
?RCS:
?RCS: Revision 3.0.1.5  1994/06/20  06:54:55  ram
?RCS: patch30: now locates find
?RCS:
?RCS: Revision 3.0.1.4  1994/05/13  15:18:15  ram
?RCS: patch27: added byacc to the trylist (ADO)
?RCS: patch27: lint lines reformatted (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/01/24  14:01:44  ram
?RCS: patch16: added metalint hint on changed PATH variable
?RCS:
?RCS: Revision 3.0.1.2  1993/12/15  08:16:52  ram
?RCS: patch15: now set _test variable when test is built-in
?RCS: patch15: fixed rare cases where echo is not needed
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  15:47:13  ram
?RCS: patch10: test program not always
 in /bin/test (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script "loc" which can be used to find out
?X: where in a list of directories something is.  It then uses loc to
?X: determine the location of commonly used programs.  It leaves loc sitting
?X: around for other Configure units to use, but arranges for its demise
?X: at the end of Configure.
?X:
?X: To add a new program to find, add it both to the ?MAKE: line and to either
?X: the loclist or trylist variable.
?X:
?X: I put startsh at the end of the dependency list, in order to avoid the
```

```
?X: loading of the spitshell unit before the instructions.
?X:
?MAKE:Loc awk ar bash bison byacc cat chgrp chmod chown \
 comm compress cp cpio cpp csh date echo egrep emacs expr find flex \
 gmake gzip grep inews ksh less line lint ln lp lpr ls mail mailx \
 make mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \
 shar sleep smail sort
 submit tail tar tbl tee test touch tr troff \
 uname uniq uuname vi zcat zip: eunicefix n c startsh Instruct sysroot
?MAKE: -pick weed $@ %<
?LINT:describe awk ar bash bison byacc cat chgrp chmod chown \
 comm compress cp cpio cpp csh date echo egrep emacs expr find flex \
 gmake gzip grep inews ksh less line lint ln lp lpr ls mail mailx \
 make mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \
 shar sleep smail sort submit tail tar tbl tee test touch tr troff \
 uname uniq uuname vi zcat zip
?V::pth loclist trylist
?F:./loc test_h
?T:thisthing thing xxx dir file say _test DJGPP
?LINT:change PATH _egrep _ln _make _less
?LINT:extern _exe
: find out where common programs are
echo " "
echo "Locating common programs..." >&4
cat <<EOSC >loc
$startsh
case \$# in
0) exit 1;;
esac
thing=\$1
shift
dflt=\$1
shift
for dir in \$*; do
 case "\$thing" in
 .)
 if test -d \$dir/\$thing; then
  echo \$dir
  exit 0
 fi
 ;;
 *)
?X: Be careful in case thing includes wildcards that might expand
 to multiple
?X: files.  Choose the last one.  This happens when searching for shared
?X: libraries with version numbers.  How to choose which one we want is
?X: probably an insoluble problem, in general.
?X: Some folks leave things like libc.so.orig around w/o read
```

```
?X: permission.  A -r test would handle that, but since ./loc is
?X: also used to find executables (which are installed w/o read
?X: permission on SCO ODT 3.0, we can't include the -r test.
?X: If you need to use an _exe that is different from .exe
?X: you need to set it in Head.U.
 for thisthing in \$dir/\$thing; do
  : just loop through to pick last item
 done
 if test -f \$thisthing; then
  echo \$thisthing
  exit 0
 elif test "X$_exe" != X -a -f \$thisthing$_exe; then
  echo \$thisthing
  exit 0
 elif test -f \$dir/\$thing.exe; then
  if test -n "$DJGPP"; then
   echo \$dir/\$thing.exe
  elif test "$eunicefix" != ":"; then
   : on Eunice apparently
   echo \$dir/\$thing
  fi
  exit 0
 fi
 ;;
 esac
done
echo \$dflt
exit
 1
EOSC
chmod +x loc
$eunicefix loc
loclist="
?awk:awk
?cat:cat
?chgrp:chgrp
?chmod:chmod
?chown:chown
?comm:comm
?cp:cp
?echo:echo
?expr:expr
?find:find
?grep:grep
?ls:ls
?mkdir:mkdir
?mv:mv
?rm:rm
```

```
?sed:sed
?sleep:sleep
?sort:sort
?tail:tail
?touch:touch
?tr:tr
?uniq:uniq
"
trylist="
?Mcc:Mcc
?ar:ar
?bash:bash
?bison:bison
?byacc:byacc
?compress:compress
?cpio:cpio
?cpp:cpp
?csh:csh
?date:date
?egrep:egrep
?emacs:emacs
?flex:flex
?gmake:gmake
?gzip:gzip
?inews:inews
?ksh:ksh
?less:less
?line:line
?lint:lint
?ln:ln
?lp:lp
?lpr:lpr
?mail:mail
?mailx:mailx
?make:make
?more:more
?nm:nm
?nroff:nroff
?perl:perl
?pg:pg
?pmake:pmake
?pr:pr
?rmail:rmail
?sendmail:sendmail
?shar:shar
?smail:smail
?submit:submit
?tar:tar
```

```
?tbl:tbl
?tee:tee
?test:test
?troff:troff
?uname:uname
?uuname:uuname
?vi:vi
?zcat:zcat
?zip:zip
"
?LINT:set awk ar bash bison byacc cat chgrp chmod chown \
 comm compress cp cpio cpp csh date echo emacs expr find flex \
 gmake gzip grep inews ksh line lint lp lpr ls mail mailx
 \
 mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \
 shar sleep smail sort submit tail tar tbl tee touch tr troff \
 uname uniq uuname vi zcat zip
pth=`echo $PATH | sed -e "s/$p_/ /g"`
pth="$pth $sysroot/lib $sysroot/usr/lib"
for file in $loclist; do
?X:
?X: Allow them to -Dmake=pmake on the command line for instance...
?X: If the file is not fully qualified, as in -Dmake=pmake, then we
?X: look the for the specified command (pmake here). If they say
?X: -Dmake=/sbin/make for instance, then we make sure the file
?X: exists, or we die...
?X:
 eval xxx=\$$file
 case "$xxx" in
 /*|?:[\\/]*)
  if test -f "$xxx"; then
   : ok
  else
   echo "WARNING: no $xxx -- ignoring your setting for $file." >&4
   xxx=`./loc $file $file $pth`
  fi
  ;;
 ") xxx=`./loc $file $file $pth`;;
 *) xxx=`./loc $xxx $xxx $pth`;;
 esac
 eval $file=$xxx$_exe
 eval _$file=$xxx
 case "$xxx" in
 /*)
  echo $file is in $xxx.
  ;;
?X: Under OS/2, we have PC-like paths
 ?:[\\/]*)
```

```
  echo $file is in $xxx.
  ;;
 *)
  echo
 "I don't know where '$file' is, and my life depends on it." >&4
  echo "Go find a public domain implementation or fix your PATH setting!" >&4
  exit 1
  ;;
 esac
done
echo " "
echo "Don't worry if any of the following aren't found..."
say=offhand
for file in $trylist; do
?X: Allow them to -Dmake=pmake on the command line for instance (see above)
 eval xxx=\$$file
 case "$xxx" in
 /*|?:[\\/]*)
  if test -f "$xxx"; then
   : ok
  else
   echo "WARNING: no $xxx -- ignoring your setting for $file." >&4
   xxx=`./loc $file $file $pth`
  fi
  ;;
 ") xxx=`./loc $file $file $pth`;;
 *) xxx=`./loc $xxx $xxx $pth`;;
 esac
 eval $file=$xxx$_exe
 eval _$file=$xxx
 case "$xxx" in
 /*)
  echo $file is in $xxx.
  ;;
?X: Under OS/2, we have PC-like paths
 ?:[\\/]*)
  echo $file is in $xxx.
  ;;
 *)
  echo "I don't see $file out there, $say."
  say=either
  ;;
 esac
done
case "$egrep" in
egrep)
 echo "Substituting grep for egrep."
 egrep=$grep
```

```
 _egrep=$grep
 ;;
esac
@if less
case "$less"
 in
") ;;
*) if $less -R </dev/null >/dev/null 2>&1; then
        echo "Substituting less -R for less."
        less="$less -R"
        _less=$less
 fi
 ;;
esac
@end
@if ln
case "$ln" in
ln)
 echo "Substituting cp for ln."
 ln=$cp
 _ln=$cp
 ;;
esac
@end
@if make || gmake
case "$make" in
make)
 case "$gmake" in
 gmake)
 echo "I can't find make or gmake, and my life depends on it." >&4
 echo "Go find a public domain implementation or fix your PATH setting!" >&4
 exit 1
 ;;
 esac
 ;;
esac
case "$gmake" in
gmake) ;;
*) # We can't have osname yet.
 if test -f "/system/gnu_library/bin/ar.pm"; then # Stratus VOS
  # Assume that gmake, if found, is definitely GNU make
  # and prefer it over the system make.
  echo "Substituting gmake for make."
  make=$gmake
  _make=$gmake
 fi
 ;;
esac
```

```
@end
case "$test" in
test)
 echo "Hopefully test is built into your sh."
 ;;
*)
 if `sh -c "PATH= test true" >/dev/null 2>&1`; then
  echo "Using the test built into your sh."
?X:
?X: We need to set both test
 and _test, since Oldconfig.U will use the _test
?X: value to systematically restore computed paths, which may be wrong if
?X: we choose to load an old config.sh generated on another platform.
?X:
  test=test
  _test=test
 fi
 ;;
esac
?LINT:change n c
case "$echo" in
echo)
 echo "Hopefully echo is built into your sh."
 ;;
?X: For those rare cases where we don't need $echo...
") ;;
*)
 echo " "
echo "Checking compatibility between $echo and builtin echo (if any)..." >&4
 $echo $n "hi there$c" >foo1
 echo $n "hi there$c" >foo2
 if cmp foo1 foo2 >/dev/null 2>&1; then
  echo "They are compatible.  In fact, they may be identical."
 else
  case "$n" in
  '-n') n=" c='\c';;
  *) n='-n' c=";;
  esac
  cat <<FOO
They are not compatible!  You are probably running ksh on a non-USG system.
I'll have to use $echo instead of the builtin, since Bourne shell doesn't
have echo built in and we may have to run some Bourne shell scripts.  That
means I'll have to use '$n$c' to suppress newlines now.
  Life is ridiculous.

FOO
  $echo $n "The star should be here-->$c"
  $echo "*"
```

```
 fi
 $rm -f foo1 foo2
 ;;
esac

?X: The next part is irrelevant to the real process
# This question was auctioned at YAPC::Europe-2007 in Vienna
# I never promised you could answer it. I only auctioned the question.
cat <<FOO
The following message is sponsored by

 Dresden.pm<--The stars should be here.

Dear Perl user, system administrator or package
maintainer, the Perl community sends greetings to
you. Do you (emblematical) greet back [Y/n]? n

FOO
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Loc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setgrent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_setgrent_r setgrent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_grp extern_C
?MAKE: -pick add $@ %<
?S:d_setgrent_r:
?S: This variable conditionally defines the HAS_SETGRENT_R symbol,
?S: which indicates to the C program that the setgrent_r()
?S: routine is available.
?S:.
?S:setgrent_r_proto:
?S: This variable encodes the prototype of setgrent_r.
?S: It is zero if d_setgrent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setgrent_r
?S: is defined.
?S:.
?C:HAS_SETGRENT_R:
?C: This symbol, if defined, indicates that the setgrent_r routine
```

```
?C: is available to
 setgrent re-entrantly.
?C:.
?C:SETGRENT_R_PROTO:
?C: This symbol encodes the prototype of setgrent_r.
?C: It is zero if d_setgrent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setgrent_r
?C: is defined.
?C:.
?H:#$d_setgrent_r HAS_SETGRENT_R /**/
?H:#define SETGRENT_R_PROTO $setgrent_r_proto /**/
?H:.
?T:try hdrs d_setgrent_r_proto
: see if setgrent_r exists
set setgrent_r d_setgrent_r
eval $inlibc
case "$d_setgrent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_grp grp.h"
 case "$d_setgrent_r_proto:$usethreads" in
 ":define") d_setgrent_r_proto=define
  set d_setgrent_r_proto setgrent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_setgrent_r_proto" in
 define)
 case "$setgrent_r_proto" in
 "|0) try='int setgrent_r(FILE**);'
 ./protochk "$extern_C $try" $hdrs && setgrent_r_proto=I_H ;;
 esac
 case "$setgrent_r_proto" in
 "|0) try='void setgrent_r(FILE**);'
 ./protochk "$extern_C $try" $hdrs && setgrent_r_proto=V_H ;;
 esac
 case "$setgrent_r_proto"
 in
 "|0) d_setgrent_r=undef
  setgrent_r_proto=0
  echo "Disabling setgrent_r, cannot determine prototype." >&4 ;;
 * ) case "$setgrent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) setgrent_r_proto="REENTRANT_PROTO_$setgrent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
```

```
  define) echo "setgrent_r has no prototype, not using it." >&4 ;;
  esac
  d_setgrent_r=undef
  setgrent_r_proto=0
  ;;
 esac
 ;;
*) setgrent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_setgrent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sbrksmart.U,v $
?RCS: Revision 3.0.1.2  1995/01/11  15:35:41  ram
?RCS: patch45: now sets sbrksmart to undef explicitly when lacking sbrk()
?RCS: patch45: forgot a cast when using return value from sbrk()
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:16:45  ram
?RCS: patch16: created
?RCS:
?MAKE:sbrksmart: cat d_sbrk +cc +ccflags +libs rm
?MAKE: -pick add $@ %<
?S:sbrksmart:
?S: This variable conditionally defines HAS_SMART_SBRK if the sbrk()
?S: routine honors a negative argument to lower the break
 value.
?S:.
?C:HAS_SMART_SBRK:
?C: This symbol is defined when the sbrk() system call may be used with
?C: a negative argument to lower the break value, therefore releasing
?C: core to the system. If not, you'd probably be better off using the
?C: mmap() system call.
?C:.
?H:#$sbrksmart HAS_SMART_SBRK /**/
```

```
?H:.
?T:dumb
?F:!sbrk
: see whether sbrk can release core to the kernel
echo " "
case "$d_sbrk" in
"$define")
 echo "Let's see if your sbrk() is smart enough to release core..." >&4
 $cat > sbrk.c <<EOC
#define INC 256  /* Small enough to be less than a page size */

int main()
{
 char *obrk = (char *) sbrk(0);
 char *nbrk;

 nbrk = (char *) sbrk(INC);
 if (nbrk == (char *) -1)
  exit(1); /* Not enough memory */
 if (nbrk != obrk)
  exit(2); /* Unreliable sbrk() */
 nbrk = (char *) sbrk(-INC);
 if (nbrk == (char *) -1)
  exit(3); /* May have understood negative arg as huge positive */
 if (obrk != (char *) sbrk(0))
  exit(4); /* Not smart, definitely */

 exit(0);  /* Ok */
}
EOC
 sbrksmart="$undef"
 dumb='--
 assuming dumb sbrk().'
 if $cc $ccflags -o sbrk sbrk.c $libs >/dev/null 2>&1; then
  ./sbrk >/dev/null 2>&1
  case $? in
  0) sbrksmart="$define"
   echo "Yes, it can be used with negative values." ;;
  1) echo "Sorry, not enough memory $dumb" ;;
  2) echo "No it's not, and besides it seems to be buggy..." ;;
  3) echo "No, it fails with negative values." ;;
  4) echo "Nope, your sbrk() is too dumb." ;;
  *) echo "Err... Unexpected result $dumb" ;;
  esac
 else
  echo "(Could not compile test program $dumb)"
 fi
 ;;
```

```
*)
 echo "Since you don't have sbrk(), let's forget about the smart test!"
 sbrksmart="$undef"
 ;;
esac
$rm -f sbrk sbrk.* core
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/sbrksmart.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sockopt.U,v 3.0.1.1 1995/07/25 14:16:14 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sockopt.U,v $
?RCS: Revision 3.0.1.1  1995/07/25  14:16:14  ram
?RCS: patch56: obsoleted KEEPALIVE in favor of CAN_KEEPALIVE for consistency
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_keepalive: cat rm contains +cc +ccflags +ldflags socketlib sockethdr \
 d_oldsock libs Oldconfig Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_keepalive:
?S: This symbol conditionally defines CAN_KEEPALIVE which
 indicates to the C
?S: program that setsockopt SO_KEEPALIVE will work properly.
?S:.
?C:CAN_KEEPALIVE (KEEPALIVE):
?C: This symbol if defined indicates to the C program that the SO_KEEPALIVE
?C: option of setsockopt() will work as advertised in the manual.
?C:.
?H:#$d_keepalive CAN_KEEPALIVE  /**/
?H:.
?F:!socket
?LINT:set d_keepalive
: see if setsockopt with SO_KEEPALIVE works as advertised
echo " "
case "$d_oldsock" in
```

```
"$undef")
 if $contains SO_KEEPALIVE `./findhdr sys/socket.h` \
  /dev/null >/dev/null 2>&1
 then
  echo "OK, let's see if SO_KEEPALIVE works as advertised..." >&4
  $cat > socket.c <<EOP
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
#include <netdb.h>

int main()
{
 int s = socket(AF_INET, SOCK_STREAM, 0);
 if (s == -1)
  exit(1);
 if (-1 == setsockopt(s, SOL_SOCKET, SO_KEEPALIVE, 0, 0))
  exit(2);
 exit(0);
}
EOP
  if $cc $ccflags $sockethdr $ldflags -o socket socket.c $libs \
   $socketlib >/dev/null 2>&1; then
   ./socket >/dev/null 2>&1
   case
 $? in
   0) echo "Yes, it does!"
    val="$define";;
   1) $cat <<EOM
(Something went wrong -- Assuming SO_KEEPALIVE is broken)
EOM
    val="$undef";;
   2) echo "No, it doesn't.  Don't trust your manuals!!"
    val="$undef";;
   esac
  else
   cat <<EOM
(I can't compile the test program -- Assuming SO_KEEPALIVE is broken)
EOM
   val="$undef"
  fi
 else
  echo "Strange!! You have BSD 4.2 sockets but no SO_KEEPALIVE option."
  val="$undef"
 fi;;
*) cat <<EOM
As you have an old socket interface, you can't have heard of SO_KEEPALIVE.
EOM
```

```
 val="$undef";;
esac
set d_keepalive
eval $setvar
$rm -f socket socket.c
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/sockopt.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cf_email.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:05:06  ram
?RCS: patch16: created
?RCS:
?RCS:
?MAKE:cf_email: cat cf_by test myhostname mydomain Oldconfig Myread
?MAKE: -pick add $@ %<
?S:cf_email:
?S: Electronic mail address of the person who ran Configure. This can be
?S: used by units that require the user's e-mail, like MailList.U.
?S:.
?T:cont maildomain
?LINT:extern MAILDOMAIN
: determine the e-mail address of the user who is running us
$cat <<EOM

I need to get your e-mail address
 in Internet format if possible, i.e.
something like user@host.domain. Please answer accurately since I have
no easy means to double check it. The default value provided below
is most probably close to reality but may not be valid from outside
your organization...

EOM
cont=x
while test "$cont"; do
 case "$MAILDOMAIN" in
```

```
 ")
  if $test -s /etc/mailname; then
   maildomain=`$cat /etc/mailname`
  else
   maildomain="$myhostname$mydomain"
  fi
  ;;
 *)  maildomain="$MAILDOMAIN";;
 esac
 case "$cf_email" in
 ") dflt="$cf_by@$maildomain";;
 *)  dflt="$cf_email";;
 esac
 rp='What is your e-mail address?'
 . ./myread
 cf_email="$ans"
 case "$cf_email" in
 *@*.*) cont=" ;;
 *)
  rp='Address does not look like an Internet one.  Use it anyway?'
  case "$fastread" in
  yes) dflt=y ;;
  *) dflt=n ;;
  esac
  . ./myread
  case "$ans" in
  y*) cont=" ;;
  *) echo " " ;;
  esac
  ;;
 esac
done
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/cf_email.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_atanh: Inlibc
?MAKE: -pick add $@ %<
?S:d_atanh:
?S: This variable conditionally defines the HAS_ATANH symbol, which
?S: indicates to the C program that the atanh() routine is available.
?S:.
?C:HAS_ATANH:
```

```
?C: This symbol, if defined, indicates that the atanh routine is
?C: available to do the inverse hyperbolic tangent function.
?C:.
?H:#$d_atanh HAS_ATANH  /**/
?H:.
?LINT:set d_atanh
: see if atanh exists
set atanh d_atanh
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_atanh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:usesocks: Myread Oldconfig Setvar
?MAKE: -pick add $@ %<
?Y:TOP
?S:usesocks:
?S: This variable conditionally defines the USE_SOCKS symbol,
?S: and indicates that Perl should be built to use SOCKS.
?S:.
?C:USE_SOCKS:
?C: This symbol, if defined, indicates that Perl should
?C: be built to use socks.
?C:.
?H:?%<:#ifndef USE_SOCKS
?H:?%<:#$usesocks USE_SOCKS  /**/
?H:?%<:#endif
?H:.
?LINT:set usesocks
?INIT:: set usesocks on the Configure command line to enable socks.
: Check is we will use socks
?X: We should really have some explanatory text here, and some
?X: automatic setting of sensible defaults.
case "$usesocks" in
$define|true|[yY]*) dflt='y';;
*) dflt='n';;
esac
cat <<EOM
```

```
Perl can be built to
 use the SOCKS proxy protocol library.  To do so,
Configure must be run with -Dusesocks.  If you use SOCKS you also need
to use the PerlIO abstraction layer, this will be implicitly selected.

If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp='Build Perl for SOCKS?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*)      val="$undef" ;;
esac
set usesocks
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/usesocks.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_difftime.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_difftime.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:31  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_difftime: Inlibc
?MAKE: -pick add $@ %<
?S:d_difftime:
?S: This variable conditionally defines the HAS_DIFFTIME symbol, which
?S: indicates to the C program that the difftime() routine is available.
?S:.
?C:HAS_DIFFTIME :
?C: This symbol, if defined, indicates that
 the difftime routine is
?C: available.
?C:.
```

```
?H:#$d_difftime HAS_DIFFTIME  /**/
?H:.
?LINT:set d_difftime
: see if difftime exists
set difftime d_difftime
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_difftime.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libs.U,v 3.0.1.6 1997/02/28 16:09:11 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: libs.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  16:09:11  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.5  1995/07/25  14:12:05  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  16:24:22  ram
?RCS: patch36: removed old broken thislib/thatlib processing (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:05:44  ram
?RCS: patch30: code cleanup with if/elif by ADO and RAM
?RCS: patch30:
 undone patch23 for libswanted default setting
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:08:45  ram
?RCS: patch23: now includes ordered default libswanted variable (ADO)
?RCS: patch23: major cleanup for library lookups (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:02:31  ram
?RCS: patch6: added default for libs
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libs ignore_versioned_solibs libsfound libsfiles libsdirs libspath: \
```

```
 test cat Myread Oldconfig Loc libpth package xlibpth so _a \
 usesocks sed uselongdouble usequadmath
?MAKE: -pick add $@ %<
?S:libs:
?S: This variable holds the additional libraries we want to use.
?S: It is up to the Makefile to deal with it.  The list can be empty.
?S:.
?S:libsfound:
?S: This variable holds the full pathnames of the libraries
?S: we found and accepted.
?S:.
?S:libsfiles:
?S: This variable holds the filenames aka basenames of the libraries
?S: we found and accepted.
?S:.
?S:libsdirs:
?S: This
 variable holds the directory names aka dirnames of the libraries
?S: we found and accepted, duplicates are removed.
?S:.
?S:libspath:
?S: This variable holds the directory names probed for libraries.
?S:.
?S:ignore_versioned_solibs:
?S: This variable should be non-empty if non-versioned shared
?S: libraries (libfoo.so.x.y) are to be ignored (because they
?S: cannot be linked against).
?S:.
?T:xxx yyy thislib thisdir libswanted libstyle
?D:libs=''
?X:
?X: This order is chosen so that libraries  -lndir, -ldir, -lucb, -lbsd,
?X: -lBSD, -lPW, and -lx only get used if there are unresolved
?X: routines at link time.  Usually, these are backwards compatibility
?X: libraries, and may not be as reliable as the standard c library.
?X:
?X: The -lsocket -linet -lnsl order has been reported to be necessary
?X: for at least one SVR4 implementation.
?X: -lc must proceed -lucb or -lbsd for most Solaris applications.
?X: -lc_s proceeds -lc so we pick up the shared library version,
 if
?X: it is available.
?X:
?X: The ordering of c, posix, and cposix is a guess and almost
?X: certainly wrong on about half of all systems.
?X:
?X: Set proper libswanted in your private Myinit.U if needed.
?X:
```

```
?X:: default ordered library list
?X:libswanted='net socket inet bind nsl nm sdbm gdbm ndbm dbm malloc dl'
?X:libswanted="$libswanted dld sun m c_s c posix cposix ndir dir ucb"
?X:libswanted="$libswanted bsd BSD PW x"
?X:
?INIT:: default library list
?INIT:libswanted="
?INIT:: some systems want to use only the non-versioned libso:s
?INIT:ignore_versioned_solibs="
?LINT:extern usecbacktrace
?LINT:extern libscheck
?LINT:extern p
?LINT:use uselongdouble
: Looking for optional libraries
echo " "
echo "Checking for optional libraries..." >&4
case "$libs" in
' '|'') dflt='';;
*) dflt="$libs";;
esac
case "$libswanted" in
'') libswanted='c_s';;
esac
?X: libsocks has nasty naming scheme.
?X: This does not work if somebody wants SOCKS 4.
case "$usesocks" in
"$define") libswanted="$libswanted
 socks5 socks5_sh" ;;
esac
case "$usecbacktrace" in
"$define") libswanted="$libswanted bfd" ;;
esac
case "$usequadmath" in
"$define") libswanted="$libswanted quadmath" ;;
esac
libsfound="
libsfiles="
libsdirs="
libspath="
for thisdir in $libpth $xlibpth; do
 test -d $thisdir && libspath="$libspath $thisdir"
done
for thislib in $libswanted; do
 for thisdir in $libspath; do
    xxx=''
    if $test ! -f "$xxx" -a "X$ignore_versioned_solibs" = "X"; then
  xxx=`ls $thisdir/lib$thislib.$so.[0-9] 2>/dev/null|sed -n '$p'`
        $test -f "$xxx" && eval $libscheck
```

```
 $test -f "$xxx" && libstyle=shared
 xxx=`ls $thisdir/lib$thislib.[0-9].$so 2>/dev/null|sed -n '$p'`
       $test -f "$xxx" && eval $libscheck
 $test -f "$xxx" && libstyle=shared
    fi
    if test ! -f "$xxx"; then
 xxx=$thisdir/lib$thislib.$so
       $test -f "$xxx" && eval $libscheck
 $test -f "$xxx" && libstyle=shared
    fi
    if test ! -f "$xxx"; then
 xxx=$thisdir/lib$thislib$_a
       $test -f "$xxx"
&& eval $libscheck
 $test -f "$xxx" && libstyle=static
    fi
    if test ! -f "$xxx"; then
 xxx=$thisdir/$thislib$_a
       $test -f "$xxx" && eval $libscheck
 $test -f "$xxx" && libstyle=static
    fi
    if test ! -f "$xxx"; then
 xxx=$thisdir/lib${thislib}_s$_a
       $test -f "$xxx" && eval $libscheck
 $test -f "$xxx" && libstyle=static
 $test -f "$xxx" && thislib=${thislib}_s
    fi
    if test ! -f "$xxx"; then
 xxx=$thisdir/Slib$thislib$_a
       $test -f "$xxx" && eval $libscheck
 $test -f "$xxx" && libstyle=static
    fi
    if $test -f "$xxx"; then
 case "$libstyle" in
 shared) echo "Found -l$thislib (shared)." ;;
 static) echo "Found -l$thislib." ;;
 *)      echo "Found -l$thislib ($libstyle)." ;;
 esac
 case " $dflt " in
 *"-l$thislib "*);;
 *) dflt="$dflt -l$thislib"
               libsfound="$libsfound $xxx"
               yyy=`basename $xxx`
               libsfiles="$libsfiles $yyy"
               yyy=`echo $xxx|$sed -e
"s%/$yyy\\$%%"`
               case " $libsdirs " in
               *" $yyy "*) ;;
```

```
                *) libsdirs="$libsdirs $yyy" ;;
                esac
    ;;
  esac
  break
    fi
 done
 if $test ! -f "$xxx"; then
    echo "No -l$thislib."
 fi
done
set X $dflt
shift
dflt="$*"
case "$libs" in
") dflt="$dflt";;
*) dflt="$libs";;
esac
case "$dflt" in
' '|") dflt='none';;
esac

$cat <<EOM

In order to compile $package on your machine, a number of libraries
are usually needed.  Include any other special libraries here as well.
Say "none" for none.  The default list is almost always right.
EOM

echo " "
rp="What libraries to use?"
. ./myread
case "$ans" in
none) libs=' ';;
*) libs="$ans";;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/libs.U
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```
?RCS: $Id$
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```

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_wifstat.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:47:43  ram
?RCS: patch61: added a ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  14:09:10  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.1  1995/03/21  08:47:46  ram
?RCS: patch52: created
?RCS:
?MAKE:d_wifstat: d_uwait +cc +ccflags +ldflags +libs Oldconfig cat rm
?MAKE: -pick add $@ %<
?S:d_wifstat:
?S: This symbol conditionally defines USE_WIFSTAT if the C program can
?S: safely
 use the WIFxxx macros with the kind of wait() parameter
?S: declared in the program (see UNION_WAIT), or if it can't. Should
?S: only matter on HP-UX, where the macros are incorrectly written and
?S: therefore cause programs using them with an 'union wait' variable
?S: to not compile properly.
?S:.
?C:USE_WIFSTAT:
?C: This symbol, if defined, indicates to the C program that the argument
?C: for the WIFxxx set of macros such as WIFSIGNALED or WIFEXITED can
?C: be of the same kind as the one used to hold the wait() status. Should
?C: only matter on HP-UX, where the macros are incorrectly written and
?C: therefore cause programs using them with an 'union wait' variable
?C: to not compile properly. See also UNION_WAIT.
?C:.
?H:#$d_wifstat USE_WIFSTAT  /**/
?H:.
?T:type
?F:!foo
: see if we can use WIFxxx macros
echo " "
case "$d_wifstat" in
"$define") echo "As before, you can safely use WIFEXITED and friends!" >&4;;
"$undef") echo "You still can't use WIFEXITED and friends!" >&4;;
*)
 echo
 "Let's see whether you can use the WIFEXITED(status) macro and its"
 case "$d_uwait" in
 "$define") type='union wait';;
 *) type='int';;
```

```
 esac
 echo "friends with status declared as '$type status'..."
 $cat >foo.c <<EOCP
#include <sys/types.h>
#include <sys/wait.h>

int main()
{
 $type status;
 int e = 0;

#ifdef WIFEXITED
 if (WIFEXITED(status))
  printf("\n");
 exit(0);
#else
 exit(2);
#endif
}
EOCP
 d_wifstat="$undef"
 if $cc $ccflags $ldflags -o foo foo.c $libs >/dev/null 2>&1; then
  if ./foo >/dev/null; then
   echo "Great! Looks like we can use the WIFxxx macros." >&4
   d_wifstat="$define"
  else
   echo "You don't seem to have WIFxxx macros, but that's ok." >&4
  fi
 else
  echo "Apparently you can't use WIFxxx macros properly." >&4
 fi
 $rm -f foo.* foo core
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_wifstat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: lintlib.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: lintlib.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lintlib lintlibexp: Getfile Loc Oldconfig
?MAKE: -pick add $@ %<
?S:lintlib:
?S: This variable holds the name of the directory in which the user wants
?S: to put public lint-library files for the package in question.  It is
?S: most often a local directory such as /usr/local/lib/lint. Programs using
?S: this variable must be prepared to
 deal with ~name expansion.
?S:.
?S:lintlibexp:
?S: This variable is the same as the lintlib variable, but is filename
?S: expanded at configuration time, for convenient use in your makefiles.
?S:.
: determine where public lint libraries go
case "$lintlib" in
") dflt=`./loc . "." /usr/local/lib/lint /usr/lib/lint /usr/lib`;;
*) dflt="$lintlib" ;;
esac
echo " "
fn=d~
rp='Where do you want to put the public lint libraries?'
. ./getfile
lintlib="$ans"
lintlibexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/lintlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_group.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
```

```
?RCS: $Log: d_group.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:34:52  ram
?RCS: patch61: useless unit dropped.
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:48  ram
?RCS: patch32: created by ADO
?RCS:
?X:
?X: Useless unit dropped.
?X:
?LINT:empty
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_group.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sethostent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_sethostent_r sethostent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_sethostent_r:
?S: This variable conditionally defines the HAS_SETHOSTENT_R symbol,
?S: which indicates to the C program that the sethostent_r()
?S: routine is available.
?S:.
?S:sethostent_r_proto:
?S: This variable encodes the prototype of sethostent_r.
?S: It is zero if d_sethostent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_sethostent_r
?S: is defined.
?S:.
?C:HAS_SETHOSTENT_R:
?C: This symbol, if defined, indicates that the sethostent_r routine
?C: is
 available to sethostent re-entrantly.
?C:.
?C:SETHOSTENT_R_PROTO:
?C: This symbol encodes the prototype of sethostent_r.
?C: It is zero if d_sethostent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_sethostent_r
```

```
?C: is defined.
?C:.
?H:#$d_sethostent_r HAS_SETHOSTENT_R /**/
?H:#define SETHOSTENT_R_PROTO $sethostent_r_proto /**/
?H:.
?T:try hdrs d_sethostent_r_proto
: see if sethostent_r exists
set sethostent_r d_sethostent_r
eval $inlibc
case "$d_sethostent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_sethostent_r_proto:$usethreads" in
 ":define") d_sethostent_r_proto=define
  set d_sethostent_r_proto sethostent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_sethostent_r_proto" in
 define)
 case "$sethostent_r_proto" in
 "|0) try='int sethostent_r(int, struct hostent_data*);'
 ./protochk "$extern_C $try" $hdrs && sethostent_r_proto=I_ID ;;
 esac
 case "$sethostent_r_proto" in
 "|0) try='void
 sethostent_r(int, struct hostent_data*);'
 ./protochk "$extern_C $try" $hdrs && sethostent_r_proto=V_ID ;;
 esac
 case "$sethostent_r_proto" in
 "|0) d_sethostent_r=undef
  sethostent_r_proto=0
  echo "Disabling sethostent_r, cannot determine prototype." >&4 ;;
 * ) case "$sethostent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) sethostent_r_proto="REENTRANT_PROTO_$sethostent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "sethostent_r has no prototype, not using it." >&4 ;;
  esac
  d_sethostent_r=undef
  sethostent_r_proto=0
  ;;
 esac
 ;;
```

```
*) sethostent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_sethostent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Obsol_sh.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Obsol_sh.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:11  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file is prepended to .MT/Obsol_sh if that file is not empty. That file
?X: contains the necessary mappings of new symbols to obsolete ones.
?X:
?MAKE:Obsol_sh:
?MAKE: -pick prepend $@ ./Obsol_sh
?LINT:nocomment
#
# The following symbols are obsolete. They are mapped to the new
# symbols only to ease the transition process. The
 sources should be
# updated so as to use the new symbols only, since supporting of those
# obsolete symbols may end without notice.
#
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Obsol_sh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2006-2007, H.Merijn Brand
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```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS:
?MAKE:d_dir_dd_fd: Compile cat rm_try Setvar i_dirent i_stdlib
?MAKE: -pick add $@ %<
?S:d_dir_dd_fd (d_dir_dd_fd.U):
?S: This variable conditionally defines the HAS_DIR_DD_FD symbol, which
?S: indicates that the DIR directory stream type contains a member
?S: variable called dd_fd.
?S:.
?C:HAS_DIR_DD_FD:
?C: This symbol, if defined, indicates that the the DIR* dirstream
?C: structure contains a member variable named dd_fd.
?C:.
?H:#$d_dir_dd_fd HAS_DIR_DD_FD  /**/
?H:.
?LINT:set d_dir_dd_fd
: Look for DIR.dd_fd
case "$i_dirent"
 in
"$define")
   echo "Checking to see if DIR has a dd_fd member variable" >&4
   $cat >try.c <<EOCP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <dirent.h>

int main() {
   DIR dir;
   dir.dd_fd = 1;
   return 0;
}
EOCP
   val=$undef
   set try
   if eval $compile; then
       echo "Yes, it does."
       val="$define"
   else
       echo "No, it does not."
       val="$undef"
   fi
   ;;
*)
   echo "You don't have a <dirent.h>, so not checking for dd_fd." >&4
```

```
   val="$undef"
   ;;
esac
set d_dir_dd_fd
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_dir_dd_fd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_longdbl.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_longdbl.U,v $
?RCS:
?MAKE:d_longdbl longdblsize d_ldexpl longdblkind \
 d_long_double_style_ieee d_long_double_style_ieee_doubledouble \
 d_long_double_style_ieee_extended d_long_double_style_ieee_std \
 d_long_double_style_vax: Compile Setvar Myread \
 Inlibc run echo cat rm_try test doublesize i_stdlib
?MAKE: -pick add $@ %<
?S:d_longdbl:
?S: This variable conditionally defines HAS_LONG_DOUBLE if
?S: the long double type is supported.
?S:.
?S:d_ldexpl:
?S: This variable conditionally defines the HAS_LDEXPL symbol, which
?S: indicates to the C program that the ldexpl() routine is available.
?S:.
?S:longdblsize:
?S: This variable contains the value of the LONG_DOUBLESIZE symbol,
 which
?S: indicates to the C program how many bytes there are in a long double,
?S: if this system supports long doubles.  Note that this is
?S: sizeof(long double), which may include unused bytes.
?S:.
?S:longdblkind:
?S: This variable, if defined, encodes the type of a long double:
?S:  0 = double,
?S:  1 = IEEE 754 128-bit little endian,
?S:  2 = IEEE 754 128-bit big endian,
?S:  3 = x86 80-bit little endian,
```

```
?S:  4 = x86 80-bit big endian,
?S:  5 = double-double 128-bit little endian,
?S:  6 = double-double 128-bit big endian,
?S:  7 = 128-bit mixed-endian double-double (64-bit LEs in BE),
?S:  8 = 128-bit mixed-endian double-double (64-bit BEs in LE),
?S:  9 = 128-bit PDP-style mixed-endian long doubles,
?S: -1 = unknown format.
?S:.
?S:d_long_double_style_ieee:
?S: This variable conditionally defines LONG_DOUBLE_STYLE_IEEE
?S: if the long double is any of the IEEE 754 style long doubles:
?S: LONG_DOUBLE_STYLE_IEEE_STD, LONG_DOUBLE_STYLE_IEEE_EXTENDED,
?S: LONG_DOUBLE_STYLE_IEEE_DOUBLEDOUBLE.
?S:.
?S:d_long_double_style_ieee_doubledouble:
?S: This
 variable conditionally defines LONG_DOUBLE_STYLE_IEEE_DOUBLEDOUBLE
?S: if the long double is the 128-bit IEEE 754 double-double.
?S:.
?S:d_long_double_style_ieee_extended:
?S: This variable conditionally defines LONG_DOUBLE_STYLE_IEEE_EXTENDED
?S: if the long double is the 80-bit IEEE 754 extended precision.
?S: Note that despite the 'extended' this is less than the 'std',
?S: since this is an extension of the double precision.
?S:.
?S:d_long_double_style_ieee_std:
?S: This variable conditionally defines LONG_DOUBLE_STYLE_IEEE_STD
?S: if the long double is the 128-bit IEEE 754.
?S:.
?S:d_long_double_style_vax:
?S: This variable conditionally defines LONG_DOUBLE_STYLE_VAX
?S: if the long double is the 128-bit VAX format H.
?S:.
?C:HAS_LONG_DOUBLE:
?C: This symbol will be defined if the C compiler supports long
?C: doubles.
?C:.
?C:LONG_DOUBLESIZE:
?C: This symbol contains the size of a long double, so that the
?C: C
 preprocessor can make decisions based on it.  It is only
?C: defined if the system supports long doubles.  Note that this
?C: is sizeof(long double), which may include unused bytes.
?C:.
?C:HAS_LDEXPL:
?C: This symbol, if defined, indicates that the ldexpl routine is
?C: available to shift a long double floating-point number
?C: by an integral power of 2.
```

```
?C:.
?C:LONG_DOUBLEKIND:
?C: LONG_DOUBLEKIND will be one of
?C: LONG_DOUBLE_IS_DOUBLE
?C: LONG_DOUBLE_IS_IEEE_754_128_BIT_LITTLE_ENDIAN
?C: LONG_DOUBLE_IS_IEEE_754_128_BIT_BIG_ENDIAN
?C: LONG_DOUBLE_IS_X86_80_BIT_LITTLE_ENDIAN
?C: LONG_DOUBLE_IS_X86_80_BIT_BIG_ENDIAN
?C: LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_LE
?C: LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_BE
?C: LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_BE
?C: LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_LE
?C: LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LITTLE_ENDIAN
?C: LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BIG_ENDIAN
?C: LONG_DOUBLE_IS_VAX_H_FLOAT
?C: LONG_DOUBLE_IS_UNKNOWN_FORMAT
?C: It is only defined
 if the system supports long doubles.
?C:.
?C:LONG_DOUBLE_STYLE_IEEE:
?C: This symbol, if defined, indicates that the long double
?C: is any of the IEEE 754 style long doubles:
?C: LONG_DOUBLE_STYLE_IEEE_STD, LONG_DOUBLE_STYLE_IEEE_EXTENDED,
?C: LONG_DOUBLE_STYLE_IEEE_DOUBLEDOUBLE.
?C:.
?C:LONG_DOUBLE_STYLE_IEEE_DOUBLEDOUBLE:
?C: This symbol, if defined, indicates that the long double is
?C: the 128-bit double-double.
?C:.
?C:LONG_DOUBLE_STYLE_IEEE_EXTENDED:
?C: This symbol, if defined, indicates that the long double is
?C: the 80-bit IEEE 754. Note that despite the 'extended' this
?C: is less than the 'std', since this is an extension of
?C: the double precision.
?C:.
?C:LONG_DOUBLE_STYLE_IEEE_STD:
?C: This symbol, if defined, indicates that the long double is
?C: the 128-bit IEEE 754.
?C:.
?C:LONG_DOUBLE_STYLE_VAX:
?C: This symbol, if defined, indicates that the long double is
?C: the 128-bit VAX format H.
?C:.
?H:#$d_ldexpl  HAS_LDEXPL  /**/
?H:#$d_longdbl HAS_LONG_DOUBLE  /**/
?H:?LONG_DOUBLESIZE:#ifdef
 HAS_LONG_DOUBLE
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLESIZE $longdblsize  /**/
```

```
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLEKIND $longdblkind  /**/
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLE    0
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_IEEE_754_128_BIT_LITTLE_ENDIAN 1
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_IEEE_754_128_BIT_BIG_ENDIAN 2
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_X86_80_BIT_LITTLE_ENDIAN  3
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_X86_80_BIT_BIG_ENDIAN  4
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_LE 5
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_BE 6
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_BE 7
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_LE 8
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_VAX_H_FLOAT   9
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_UNKNOWN_FORMAT   -1
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LITTLE_ENDIAN
LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_LE
 /* back-compat */
?H:?LONG_DOUBLESIZE:#define LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BIG_ENDIAN
LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_BE /* back-compat */
?H:?LONG_DOUBLESIZE:#$d_long_double_style_ieee LONG_DOUBLE_STYLE_IEEE
?H:?LONG_DOUBLESIZE:#$d_long_double_style_ieee_doubledouble
LONG_DOUBLE_STYLE_IEEE_DOUBLEDOUBLE
?H:?LONG_DOUBLESIZE:#$d_long_double_style_ieee_extended
LONG_DOUBLE_STYLE_IEEE_EXTENDED
?H:?LONG_DOUBLESIZE:#$d_long_double_style_ieee_std LONG_DOUBLE_STYLE_IEEE_STD
?H:?LONG_DOUBLESIZE:#$d_long_double_style_vax LONG_DOUBLE_STYLE_VAX
?H:?LONG_DOUBLESIZE:#endif
?H:.
?F:!try
?LINT:known LONG_DOUBLE_IS_DOUBLE LONG_DOUBLE_IS_IEEE_754_128_BIT_LITTLE_ENDIAN
?LINT:known LONG_DOUBLE_IS_IEEE_754_128_BIT_BIG_ENDIAN
LONG_DOUBLE_IS_X86_80_BIT_LITTLE_ENDIAN
?LINT:known LONG_DOUBLE_IS_X86_80_BIT_BIG_ENDIAN
LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LITTLE_ENDIAN
?LINT:known LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BIG_ENDIAN
LONG_DOUBLE_IS_UNKNOWN_FORMAT
?LINT:known
 LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_LE
?LINT:known LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_BE
?LINT:known LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_LE_BE
?LINT:known LONG_DOUBLE_IS_DOUBLEDOUBLE_128_BIT_BE_LE
?LINT:known LONG_DOUBLE_IS_VAX_H_FLOAT
?LINT:set d_longdbl
?LINT:set d_ldexpl
: check for long doubles
echo " " >&4
echo "Checking to see if you have long double..." >&4
echo 'int main() { long double x = 7.0; }' > try.c
set try
if eval $compile; then
```

```
 val="$define"
 echo "You have long double." >&4
else
 val="$undef"
 echo "You do not have long double." >&4
fi
$rm_try
set d_longdbl
eval $setvar

: see if ldexpl exists
set ldexpl d_ldexpl
eval $inlibc

@if LONG_DOUBLESIZE || longdblsize
: check for length of long double
?X:  Check only if d_longdbl and if longdblsize is not already set.
case "${d_longdbl}${longdblsize}" in
$define)
 echo " " >&4
 echo "Checking to see how big your long doubles are..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
 printf("%d\n", sizeof(long
 double));
}
EOCP
 set try
?X: Don't use compile_ok because some compilers warn you that they have
?X: 'long double' as just 'double'.
 set try
 if eval $compile; then
  longdblsize=`$run ./try`
  echo "Your long doubles are $longdblsize bytes long." >&4
 else
  dflt='8'
  echo " " >&4
  echo "(I can't seem to compile the test program.  Guessing...)" >&4
  rp="What is the size of a long double (in bytes)?"
  . ./myread
  longdblsize="$ans"
 fi
 if $test "X$doublesize" = "X$longdblsize"; then
  echo "That isn't any different from an ordinary double." >&4
  echo "I'll keep your setting anyway, but you may see some" >&4
  echo "harmless compilation warnings." >&4
```

```
 fi
 ;;
esac
$rm_try
@end

$echo "Checking the kind of long doubles you have..." >&4
case "$d_longdbl" in
define)
$cat <<EOP >try.c
#$i_stdlib I_STDLIB
#define LONGDBLSIZE $longdblsize
#define DOUBLESIZE $doublesize
#include <float.h>
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <stdio.h>
static const long double
 d = -0.1L;
int main() {
 unsigned const char* b = (unsigned const char*)(&d);
#if DOUBLESIZE == LONGDBLSIZE
 printf("0\n"); /* if it floats like double */
 exit(0);
#endif
#if (LDBL_MANT_DIG == 113 || FLT128_MANT_DIG == 113) && LONGDBLSIZE == 16
 if (b[0] == 0x9A && b[1] == 0x99 && b[15] == 0xBF) {
   /* IEEE 754 128-bit little-endian */
   printf("1\n");
   exit(0);
 }
 if (b[0] == 0xBF && b[14] == 0x99 && b[15] == 0x9A) {
   /* IEEE 128-bit big-endian, e.g. solaris sparc */
   printf("2\n");
   exit(0);
 }
#endif
/* For alignment 32-bit platforms have the 80 bits in 12 bytes,
* while 64-bits platforms have it in 16 bytes.  The trailing bytes
* cannot be trusted. */
#if LDBL_MANT_DIG == 64 && (LONGDBLSIZE == 16 || LONGDBLSIZE == 12)
 if (b[0] == 0xCD && b[9] == 0xBF) {
   /* x86 80-bit little-endian, sizeof 12 (ILP32, Solaris x86)
    * or 16 (LP64, Linux and OS X), 4 or 6 bytes of padding.
    * Also known as "extended precision". */
   printf("3\n");
   exit(0);
```

```
 }
 if (b[0] == 0xBF && b[9] == 0xCD) {
  /* Is there ever big-endian 80-bit, really?
   *
   * The Motorola 68881 had another "extended precision" format:
   * sign:1 exp:15 zero:16 integer:1 mantissa:63
   * for total of 96 bits of bytes.  The zero bits were unused.
   * See "M68000 FAMILY PROGRAMMER'S REFERENCE MANUAL" for more details.
   * If it ever becomes relevant, this format should be allocated a
   * new doublekind code since it is quite different from the Intel x87.
   */
  printf("4\n");
  exit(0);
 }
#endif
#if (LDBL_MANT_DIG == 106 || LDBL_MANT_DIG == 107) && LONGDBLSIZE == 16
 /* software "double double", the 106 is 53+53.
  * but irix thinks it is 107. */
 if (b[0] == 0x9A && b[7] == 0x3C && b[8] == 0x9A && b[15] == 0xBF) {
  /* double double 128-bit fully little-endian,
   * little-endian doubles in little-endian order,
   * 9a 99 99 99 99 99 59 3c 9a 99 99 99 99 99 b9 bf */
  printf("5\n");
  exit(0);
 }
 if (b[0] == 0xBF && b[7]
 == 0x9A && b[8] == 0x3C && b[15] == 0x9A) {
  /* double double 128-bit fully big-endian,
   * big-endian doubles in big-endian order,
   * e.g. PPC/Power and MIPS:
   * bf b9 99 99 99 99 99 9a 3c 59 99 99 99 99 99 9a */
  printf("6\n");
  exit(0);
 }
 if (b[0] == 0x9A && b[7] == 0xBF && b[8] == 0x9A && b[15] == 0x3C) {
  /* double double 128-bit mixed endian.
   * little-endian doubles in big-endian order,
   * e.g. ppc64el,
   * 9a 99 99 99 99 99 b9 bf 9a 99 99 99 99 99 59 3c */
  printf("7\n");
  exit(0);
 }
 if (b[0] == 0x3C && b[7] == 0x9A && b[8] == 0xBF && b[15] == 0x9A) {
  /* double double 128-bit mixed endian,
   * big-endian doubles in little-endian order,
   * 3c 59 99 99 99 99 99 9a bf b9 99 99 99 99 99 9a */
  printf("8\n");
  exit(0);
```

```
 }
#endif
/* We are largely making this up because it may well be
* that the VAX format H was never made available to C,
* only to Fortran. */
#if LONGDBLSIZE == 16 && defined(__vax__)
 if (b[0]
 == 0xFD && b[15] == 0x99) {
   /* VAX format H, PDP-11 mixed endian. */
   printf("9\n");
   exit(0);
 }
#endif
 printf("-1\n"); /* unknown */
 exit(0);
}
EOP
set try
if eval $compile; then
   longdblkind=`$run ./try`
else
   longdblkind=-1
fi
;;
*) longdblkind=0 ;;
esac
case "$longdblkind" in
0) echo "Your long doubles are doubles." >&4 ;;
1) echo "You have IEEE 754 128-bit little endian long doubles." >&4 ;;
2) echo "You have IEEE 754 128-bit big endian long doubles." >&4 ;;
3) echo "You have x86 80-bit little endian long doubles." >&4 ;;
4) echo "You have x86 80-bit big endian long doubles." >&4 ;;
5) echo "You have 128-bit fully little-endian double-double long doubles (64-bit LEs in LE)." >&4 ;;
6) echo "You have 128-bit fully big-endian double-double long doubles (64-bit BEs in BE)." >&4 ;;
7) echo "You have 128-bit mixed-endian double-double long doubles (64-bit LEs in BE)." >&4 ;;
8) echo "You have 128-bit mixed-endian double-double long doubles (64-bit BEs in LE)." >&4
 ;;
9) echo "You have 128-bit PDP-style mixed-endian long doubles (VAX format H)." >&4 ;;
*) echo "Cannot figure out your long double." >&4 ;;
esac
d_long_double_style_ieee=$undef
d_long_double_style_ieee_std=$undef
d_long_double_style_ieee_extended=$undef
d_long_double_style_ieee_doubledouble=$undef
d_long_double_style_vax=$undef
case "$longdblkind" in
1|2|3|4|5|6|7|8) d_long_double_style_ieee=$define ;;
esac
```

```
case "$longdblkind" in
1|2) d_long_double_style_ieee_std=$define ;;
esac
case "$longdblkind" in
3|4) d_long_double_style_ieee_extended=$define ;;
esac
case "$longdblkind" in
5|6|7|8) d_long_double_style_ieee_doubledouble=$define ;;
esac
case "$longdblkind" in
9) d_long_double_style_vax=$define ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_longdbl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_semget.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_semget.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_semget: Inlibc
?MAKE: -pick add $@ %<
?S:d_semget:
?S: This variable conditionally defines the HAS_SEMGET symbol, which
?S: indicates to the C program that the semget() routine is available.
?S:.
?C:HAS_SEMGET:
?C: This symbol, if defined, indicates that the semget() routine is
?C: available to get a set of semaphores.
?C:.
?H:#$d_semget
 HAS_SEMGET /**/
?H:.
?LINT:set d_semget
: see if semget exists
```

```
set semget d_semget
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_semget.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_msgctl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msgctl.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:38  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_msgctl: Inlibc
?MAKE: -pick add $@ %<
?S:d_msgctl:
?S: This variable conditionally defines the HAS_MSGCTL symbol, which
?S: indicates to the C program that the msgctl() routine is available.
?S:.
?C:HAS_MSGCTL:
?C: This symbol, if defined, indicates that the msgctl() routine is
?C: available to perform message control operations.
?C:.
?H:#$d_msgctl
 HAS_MSGCTL  /**/
?H:.
?LINT:set d_msgctl
: see if msgctl exists
set msgctl d_msgctl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_msgctl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sbrk.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sbrk.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:06:31  ram
?RCS: patch16: created
?RCS:
?MAKE:d_sbrk: Inlibc
?MAKE: -pick add $@ %<
?S:d_sbrk:
?S: This variable conditionally defines HAS_SBRK if sbrk() is
?S: available to add more core to the process.
?S:.
?C:HAS_SBRK:
?C: This symbol, if defined, indicates that the sbrk system call is
?C: available to add/relase core. Always true on Unix.
?C:.
?H:#$d_sbrk HAS_SBRK /**/
?H:.
?LINT:set d_sbrk
: see
 if sbrk exists
set sbrk d_sbrk
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sbrk.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_rusage.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_rusage.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?X: We may need to include <sys/resource.h> and <sys/time.h> FIXME
?X:INC: i_sysresrc i_systime
?MAKE:d_rusage: Inlibc
?MAKE: -pick add $@ %<
?S:d_rusage (d_getrusg):
?S: This variable conditionally defines the HAS_GETRUSAGE symbol, which
?S: indicates that the getrusage() routine exists.  The getrusage() routine
?S: supports sub-second accuracy
 for process cpu accounting. You may need
?S: to include <sys/resource.h> and <sys/time.h>.
?S:.
?C:HAS_GETRUSAGE (RUSAGE GETRUSAGE):
?C: This symbol, if defined, indicates that the getrusage() routine is
?C: available to get process statistics with a sub-second accuracy.
?C: Inclusion of <sys/resource.h> and <sys/time.h> may be necessary.
?C:.
?H:#$d_rusage HAS_GETRUSAGE  /**/
?H:.
?LINT:set d_rusage
: see if getrusage exists
set getrusage d_rusage
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_rusage.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_socket.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:46:00  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:08:04  ram
?RCS: patch16: can now safely declare private nm_extract in dependencies
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:d_socket d_oldsock d_sockpair socketlib sockethdr: contains libc \
 echo n c nm_opt nm_extract Inlibc Csym _a
?MAKE: -pick add $@ %<
?S:d_socket:
?S: This
 variable conditionally defines HAS_SOCKET, which indicates
?S: that the BSD socket interface is supported.
?S:.
?S:d_sockpair:
?S: This variable conditionally defines the HAS_SOCKETPAIR symbol, which
?S: indicates that the BSD socketpair() is supported.
?S:.
?S:d_oldsock:
?S: This variable conditionally defines the OLDSOCKET symbol, which
?S: indicates that the BSD socket interface is based on 4.1c and not 4.2.
?S:.
?S:socketlib:
?S: This variable has the names of any libraries needed for socket support.
?S:.
?S:sockethdr:
?S: This variable has any cpp -I flags needed for socket support.
?S:.
?C:HAS_SOCKET (SOCKET):
?C: This symbol, if defined, indicates that the BSD socket interface is
?C: supported.
?C:.
?C:HAS_SOCKETPAIR (SOCKETPAIR):
?C: This symbol, if defined, indicates that the BSD socketpair() call is
?C: supported.
?C:.
?C:USE_OLDSOCKET (OLDSOCKET):
?C: This symbol, if defined, indicates that the 4.1c BSD socket interface
?C: is supported instead of the 4.2/4.3 BSD
 socket interface. For instance,
?C: there is no setsockopt() call.
?C:.
?H:#$d_socket HAS_SOCKET  /**/
?H:#$d_sockpair HAS_SOCKETPAIR /**/
?H:#$d_oldsock USE_OLDSOCKET /**/
?H:.
?T:val
?LINT:use libc
?LINT:set d_sockpair
: see whether socket exists
socketlib=''
sockethdr=''
echo " "
$echo $n "Hmm... $c" >&4
```

```
if set socket val -f d_socket; eval $csym; $val; then
 echo "Looks like you have Berkeley networking support." >&4
 d_socket="$define"
?X: now check for advanced features
 if set setsockopt val -f; eval $csym; $val; then
  d_oldsock="$undef"
 else
  echo "...but it uses the old 4.1c interface, rather than 4.2" >&4
  d_oldsock="$define"
 fi
else
?X: HP-UX, for one, puts all the socket stuff in socklib.o. Note that if we
?X: come here on HP-UX, then we must have used nm to get symbols, or we really
?X: don't have sockets anyway...
 if $contains socklib libc.list >/dev/null 2>&1; then
  echo "Looks like you have Berkeley networking support." >&4
  d_socket="$define"
  : we will have
 to assume that it supports the 4.2 BSD interface
  d_oldsock="$undef"
 else
  echo "You don't have Berkeley networking in libc$_a..." >&4
?X: look for an optional networking library
  if test -f /usr/lib/libnet$_a; then
?X: space between two  '(' needed for ksh
   ( (nm $nm_opt /usr/lib/libnet$_a | eval $nm_extract) ||  \
   ar t /usr/lib/libnet$_a) 2>/dev/null >> libc.list
   if $contains socket libc.list >/dev/null 2>&1; then
   echo "...but the Wollongong group seems to have hacked it in." >&4
    socketlib="-lnet"
    sockethdr="-I/usr/netinclude"
    d_socket="$define"
?X: now check for advanced features
    if $contains setsockopt libc.list >/dev/null 2>&1; then
     d_oldsock="$undef"
    else
     echo "...using the old 4.1c interface, rather than 4.2" >&4
     d_oldsock="$define"
    fi
   else
    echo "or even in libnet$_a, which is peculiar." >&4
    d_socket="$undef"
    d_oldsock="$undef"
   fi
  else
   echo "or anywhere else I see." >&4
   d_socket="$undef"
   d_oldsock="$undef"
```

```
  fi
 fi
fi

@if
 HAS_SOCKETPAIR || d_sockpair
: see if socketpair exists
set socketpair d_sockpair
eval $inlibc

@end
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_socket.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorman1dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorman1dir.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorman1dir vendorman1direxp installvendorman1dir: man1dir Getfile \
 Oldconfig Setprefixvar Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorman1dir:
?S: This variable contains the name of the directory for man1
?S: pages.  It may have a ~ on the front.
?S: The standard distribution will put nothing in this directory.
?S: Vendors
 who distribute perl may wish to place their own
?S: man1 pages in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorman1direxp:
?S: This variable is the ~name expanded version of vendorman1dir, so that you
?S: may use it directly in Makefiles or shell scripts.
```

```
?S:.
?D:installvendorman1dir="
?S:installvendorman1dir:
?S: This variable is really the same as vendorman1direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorman1dir
: Set the vendorman1dir variables
case "$vendorprefix" in
") vendorman1dir="
 vendorman1direxp="
 ;;
*) : determine where vendor-supplied manual pages go.
 case "$vendorman1dir" in
 ") dflt=`echo "$man1dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
 *) dflt=$vendorman1dir ;;
 esac
 case "$dflt" in
 "|' ') dflt=none ;;
 esac
 fn=nd~+
 rp='Pathname for
 the vendor-supplied manual section 1 pages?'
 . ./getfile
 vendorman1dir="$ans"
 vendorman1direxp="$ansexp"
 ;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorman1dir" = "X" && vendorman1dir=' '
prefixvar=vendorman1dir
. ./installprefix
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/vendorman1dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libc.U,v $
?RCS: Revision 3.0.1.10  1997/02/28  15:56:48  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: added support for HPUX-10 nm output
?RCS:
?RCS: Revision 3.0.1.9  1995/07/25  14:11:56  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.8  1995/05/12  12:20:47  ram
?RCS: patch54: made sure only most recent version of shared lib is picked
?RCS: patch54: final "nm -p" check now uses xscan and xrun like everybody
?RCS: patch54: can now grok
 linux nm output with lead __IO (ADO)
?RCS: patch54: added support for linux ELF output, using 'W' for alias (ADO)
?RCS:
?RCS: Revision 3.0.1.7  1994/10/29  16:23:40  ram
?RCS: patch36: now looks for shared libraries before anything else (ADO)
?RCS: patch36: added new nm output format (ADO)
?RCS:
?RCS: Revision 3.0.1.6  1994/08/29  16:28:10  ram
?RCS: patch32: added I-type symbols for nm output parsing on Linux
?RCS:
?RCS: Revision 3.0.1.5  1994/06/20  07:03:24  ram
?RCS: patch30: checks are now presented by succession of if/elif
?RCS: patch30: uniformized checks for shared objects with new so symbol
?RCS:
?RCS: Revision 3.0.1.4  1994/05/06  15:06:33  ram
?RCS: patch23: added shared library knowledge (ADO and WED)
?RCS:
?RCS: Revision 3.0.1.3  1994/01/24  14:12:17  ram
?RCS: patch16: can now export nm_extract as an internal-use only variable
?RCS:
?RCS: Revision 3.0.1.2  1993/09/13  16:09:03  ram
?RCS: patch10: added special handling for Apollo systems (WAD)
?RCS:
?RCS: Revision 3.0.1.1
  1993/08/27  14:40:03  ram
?RCS: patch7: added entry for /usr/shlib/libc.so (OSF/1 machines)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libc libnames +nm_extract: echo n c rm test grep Getfile Myread \
 Oldconfig Loc sed libs incpath libpth ar runnm nm nm_opt nm_so_opt \
 contains xlibpth so osname trnl tr sort uniq _o _a
?MAKE: -pick add $@ %<
```

```
?S:libc:
?S: This variable contains the location of the C library.
?S:.
?S:libnames:
?S: The constructed list of library names.  Normally empty, but hint files
?S: may set this for later perusal by Configure.
?S:.
?S:nm_extract:
?S: This variable holds the name of the extraction command used to process
?S: the output of nm and yield the list of defined symbols. It is used
?S: internally by Configure.
?S:.
?T:thislib try libnames xxx xscan xrun thisname com tans file
?F:!libnames !libc.tmp !tmp.imp
?LINT:change nm_opt runnm
?INIT:libnames=''
: Figure out where the libc is located
case
 "$runnm" in
true)
?X: indentation is wrong on purpose--RAM
: get list of predefined functions in a handy place
echo " "
case "$libc" in
'') libc=unknown
 case "$libs" in
 *-lc_s*) libc=`./loc libc_s$_a $libc $libpth`
 esac
 ;;
esac
case "$libs" in
'') ;;
*)  for thislib in $libs; do
 case "$thislib" in
 -lc|-lc_s)
  : Handle C library specially below.
  ;;
 -l*)
  thislib=`echo $thislib | $sed -e 's/^-l//'`
  if try=`./loc lib$thislib.$so.'*' X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib.$so X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib$_a X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc $thislib$_a X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib X $libpth`; $test -f "$try"; then
```

```
  :
  elif try=`./loc $thislib X $libpth`; $test -f "$try"; then
  :
  elif try=`./loc Slib$thislib$_a X $xlibpth`; $test -f "$try"; then
  :
  else
   try=''
  fi
  libnames="$libnames $try"
  ;;
 *) libnames="$libnames $thislib"
 ;;
 esac
 done
 ;;
esac
?X:
?X: Some systems (e.g. DG/UX) use "environmental" links, which make the test
?X: -f fail. Ditto for symbolic links. So in order to reliably check the
?X: existence of a file, we use test -r. It will still fail with DG/UX links
?X: though, but at least it will detect symbolic links. At some strategic
?X: points, we make use of (test -h), using a sub-shell in case builtin test
?X: does not implement the -h check for symbolic links. This makes it
?X: possible to preset libc in a hint file for instance and have it show up
?X: as-is in the question.
?X:
xxx=normal
case "$libc" in
unknown)
?X:
?X: The sed below transforms .so.9 .so.12 into something like .so.0009 .so.0012,
?X: then sorts on it to allow keeping .so.12 instead of .so.9 as the latest
?X: up-to-date library. The initial filename (before sed munging, saved in hold
?X: space via 'h') is appended via 'G' before sorting, then the leading munged
?X: part is removed after sorting. Nice efficient work
 from Tye McQueen.
?X: The initial blurfl is here to prevent the trailing pipe from producing an
?X: empty string, causing Configure to output all its set variables!
?X:
 set /lib/libc.$so
 for xxx in $libpth; do
  $test -r $1 || set $xxx/libc.$so
  : The messy sed command sorts on library version numbers.
  $test -r $1 || \
   set `echo blurfl; echo $xxx/libc.$so.[0-9]* | \
   tr ' ' $trnl | egrep -v '\.[A-Za-z]*$' | $sed -e '
    h
    s/[0-9][0-9]*/0000&/g
```

```
    s/0*\([0-9][0-9][0-9][0-9][0-9]\)/\1/g
    G
    s/\n/ /' | \
    $sort | $sed -e 's/^.* //'`
  eval set \$$#
 done
 $test -r $1 || set /usr/ccs/lib/libc.$so
 $test -r $1 || set /lib/libsys_s$_a
 ;;
*)
?X: ensure the test below for the (shared) C library will fail
 set blurfl
 ;;
esac
if $test -r "$1"; then
 echo "Your (shared) C library seems to be in $1."
 libc="$1"
elif $test -r /lib/libc && $test -r /lib/clib; then
?X:
?X: Apollo has its C library in /lib/clib AND /lib/libc
?X: not to mention its math library in /lib/syslib...
?X:
 echo
 "Your C library seems to be in both /lib/clib and /lib/libc."
 xxx=apollo
 libc='/lib/clib /lib/libc'
 if $test -r /lib/syslib; then
  echo "(Your math library is in /lib/syslib.)"
?X: Put syslib in libc -- not quite right, but won't hurt
  libc="$libc /lib/syslib"
 fi
elif $test -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
 echo "Your C library seems to be in $libc, as you said before."
?X: For mips, and...
elif $test -r $incpath/usr/lib/libc$_a; then
 libc=$incpath/usr/lib/libc$_a;
 echo "Your C library seems to be in $libc.  That's fine."
elif $test -r /lib/libc$_a; then
 libc=/lib/libc$_a;
 echo "Your C library seems to be in $libc.  You're normal."
else
 if tans=`./loc libc$_a blurfl/dyick $libpth`; $test -r "$tans"; then
  :
 elif tans=`./loc libc blurfl/dyick $libpth`; $test -r "$tans"; then
  libnames="$libnames "`./loc clib blurfl/dyick $libpth`
 elif tans=`./loc clib blurfl/dyick $libpth`; $test -r "$tans"; then
  :
 elif tans=`./loc Slibc$_a blurfl/dyick
```

```
 $xlibpth`; $test -r "$tans"; then
  :
 elif tans=`./loc Mlibc$_a blurfl/dyick $xlibpth`; $test -r "$tans"; then
  :
 else
  tans=`./loc Llibc$_a blurfl/dyick $xlibpth`
 fi
 if $test -r "$tans"; then
  echo "Your C library seems to be in $tans, of all places."
  libc=$tans
 else
  libc='blurfl'
 fi
fi
if $test $xxx = apollo -o -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
 dflt="$libc"
 cat <<EOM

If the guess above is wrong (which it might be if you're using a strange
compiler, or your machine supports multiple models), you can override it here.

EOM
else
 dflt=''
 echo $libpth | $tr ' ' $trnl | $sort | $uniq > libpath
 cat >&4 <<EOM
I can't seem to find your C library.  I've looked in the following places:

EOM
 $sed 's/^/ /' libpath
 cat <<EOM

None of these seems to contain your C library. I need to get its name...

EOM
fi
fn=f
rp='Where is your C library?'
. ./getfile
libc="$ans"

echo " "
echo $libc $libnames | $tr ' ' $trnl | $sort | $uniq > libnames
set X `cat libnames`
shift
xxx=files
case
```

```
 $# in 1) xxx=file; esac
echo "Extracting names from the following $xxx for later perusal:" >&4
echo " "
$sed 's/^/ /' libnames >&4
echo " "
$echo $n "This may take a while...$c" >&4

?X:
?X: Linux may need the special Dynamic option to nm for shared libraries.
?X: In general, this is stored in the nm_so_opt variable.
?X: Unfortunately, that option may be fatal on non-shared libraries.
?X:
for file in $*; do
 case $file in
 *$so*) $nm $nm_so_opt $nm_opt $file 2>/dev/null;;
 *) $nm $nm_opt $file 2>/dev/null;;
 esac
done >libc.tmp

$echo $n ".$c"
?X:
?X: To accelerate processing, we look at the correct 'sed' command
?X: by using a small subset of libc.tmp, i.e. fprintf function.
?X: When we know which sed command to use, do the name extraction
?X:
$grep fprintf libc.tmp > libc.ptf
?X:
?X: In order to enhance readability and save some space, we define
?X: some variables that will be "eval"ed.
?X:
xscan='eval "<libc.ptf $com >libc.list"; $echo $n ".$c" >&4'
xrun='eval
 "<libc.tmp $com >libc.list"; echo "done." >&4'
?X: BSD-like output, I and W types added for Linux
?X: Some versions of Linux include a leading __IO in the symbol name.
?X: HPUX10 reportedly has trailing spaces, though I'm surprised it has
?X: BSD-like output.  (AD).
xxx='[ADTSIW]'
if com="$sed -n -e 's/__IO//' -e 's/^.* $xxx  *_[_.]*//p' -e 's/^.* $xxx  *//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: SYSV-like output
elif com="$sed -n -e 's/^__*//' -e 's/^\([a-zA-Z_0-9$]*\).*xtern.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e '/|UNDEF/d' -e '/FUNC..GL/s/^.*|__*//p'";\
```

```
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.* D __*//p' -e 's/^.* D //p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^_//' -e 's/^\([a-zA-Z_0-9]*\).*xtern.*text.*/\1/p'";\
 eval
 $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$grep '|' | $sed -n -e '/|COMMON/d' -e '/|DATA/d' \
    -e '/ file/d' -e 's/^\([^  ]*\).*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|//p' -e 's/^.*|FUNC |WEAK .*|//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: mips nm output (sysV)
elif com="$sed -n -e 's/^__//' -e '/|Undef/d' -e '/|Proc/s/ .*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|Proc .*|Text *| *//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e '/Def. Text/s/.* \([^ ]*\)\$/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null
 2>&1; then
  eval $xrun
?X: OS/2 nm output
elif com="$sed -n -e 's/^[-0-9a-f ]*_\(.*\)=.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/.*\.text n\ \ \ \.//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
```

```
?X: AIX nm output
elif com="sed -n -e 's/^__.*//' -e 's/[       ]*D[    ]*[0-9]*.*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
else
 $nm -p $* 2>/dev/null >libc.tmp
 $grep fprintf libc.tmp > libc.ptf
 if com="$sed -n -e 's/^.* [ADTSIW]  *_[_.]*//p' -e 's/^.* [ADTSIW] //p'";\
  eval $xscan; $contains '^fprintf$' libc.list >/dev/null 2>&1
 then
  nm_opt='-p'
  eval $xrun
 else
  echo " "
  echo "$nm didn't seem to work right. Trying $ar instead..." >&4
  com="
  if $ar t $libc > libc.tmp && \
   $contains '^fprintf$' libc.tmp >/dev/null 2>&1
  then
   for thisname in $libnames $libc; do
    $ar t $thisname >>libc.tmp
   done
   $sed
 -e "s/\\$_o\$//" < libc.tmp > libc.list
   echo "Ok." >&4
  elif test "X$osname" = "Xos2" && $ar tv $libc > libc.tmp; then
?X: Repeat libc to extract forwarders to DLL entries too
   for thisname in $libnames $libc; do
    $ar tv $thisname >>libc.tmp
?X: Revision 50 of EMX has bug in ar: it will not extract forwarders
?X: to DLL entries.  Use emximp which will extract exactly them.
    emximp -o tmp.imp $thisname \
        2>/dev/null && \
        $sed -e 's/^\([_a-zA-Z0-9]*\) .*$/\1/p' \
        < tmp.imp >>libc.tmp
    $rm -f tmp.imp
   done
   $sed -e "s/\\$_o\$//" -e 's/^ \+//' < libc.tmp > libc.list
   echo "Ok." >&4
  else
   echo "$ar didn't seem to work right." >&4
   echo "Maybe this is a Cray...trying bld instead..." >&4
   if
    bld t $libc | \
     $sed -e 's/.*\///' -e "s/\\$_o:.*\$//" > libc.list &&
    $test -s libc.list
   then
```

```
    for thisname in $libnames; do
     bld t $libnames | \
     $sed -e 's/.*\///' -e "s/\\$_o:.*\$//" >>libc.list
     $ar t $thisname >>libc.tmp
    done
    echo
 "Ok." >&4
   else
    echo "That didn't work either." >&4
    echo "No problem, I'll be compiling test programs then..." >&4
    runnm=false
   fi
  fi
 fi
fi
nm_extract="$com"
if $test -f /lib/syscalls.exp; then
 echo " "
 echo "Also extracting names from /lib/syscalls.exp for good ole AIX..." >&4
 $sed -n 's/^\([^  ]*\)[  ]*syscall[0-9]*[  ]*$/\1/p' \
  /lib/syscalls.exp >>libc.list
fi
?X: remember, indentation is wrong on purpose--RAM
;;
esac
$rm -f libnames libpath
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/libc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Compile.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS:
?X:
?X: This unit is just a quick shorthand for the compile command
?X: to be used in all the other metaconfig units.
?X:
?MAKE:Compile: +cc +optimize +ccflags +ldflags +libs test
?MAKE: -pick wipe $@ %<
?LINT:extern usedevel maintloc
?LINT:define compile compile_ok
```

```
?V:compile compile_ok mc_file
?S:compile:
?S: This shell variable is used internally by Configure to provide
?S: a convenient shorthand for the typical compile command, namely
?S: $cc $optimize $ccflags $ldflags -o $1 $1.c $libs > /dev/null 2>&1
?S: Note that the output filename does _not_ include the _exe
?S: extension.  Instead we assume that the linker will be
?S: "helpful" and automatically appending the correct suffix.
?S: OS/2
 users will apparently need to supply the -Zexe flag to
?S: get this behavior.
?S:
?S: To use this variable, say something like:
?S:  echo 'int main() { exit(0); }' > try.c
?S:  set try
?S:  if eval $compile; then
?S:   echo "success"   # and do whatever . . .
?S:  else
?S:   echo "failure"   # and do whatever . . .
?S:  fi
?S: To add extra flags cc flags (e.g. -DWHATEVER) just put them
?S: in $*, e.g.
?S:  set try -DTRY_THIS_FLAG
?S:.
?S:compile_ok:
?S: This shell variable is used internally by Configure to provide
?S: a convenient shorthand for the typical compile command that you
?S: expect to work ok.  It is the same as $compile, except we
?S: deliberately let the user see any error messages.
?S:.
: define a shorthand compile call
compile='
mc_file=$1;
shift;
case "$usedevel" in $define|true|[yY]*) if $test ! -f "${mc_file}.c"; then
echo "Internal Configure script bug - compiler test file ${mc_file}.c is missing. Please report this to <$maintloc>"
>&4;
exit 1;
fi;
esac;
$cc
 -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs > /dev/null 2>&1;'
: define a shorthand compile call for compilations that should be ok.
compile_ok='
mc_file=$1;
shift;
$cc -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs > /dev/null 2>&1;'
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/Compile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Whoa.U,v 3.0.1.2 1997/02/28 15:21:21 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Whoa.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:21:21  ram
?RCS: patch61: whoa script now starts with leading "startsh"
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:02:01  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to warn the user in case a change into a variable
 is noticed.
?X:
?X: To use this unit, $was must hold the old value that has changed. Upon
?X: exit, the two variables $td and $tu are set to the correct value for
?X: respectively defining or undefining a variable. For instance, if $vas was
?X: $undef, but now $var is $define, after calling . whoa, you should use
?X: eval "$var=\$tu" to finally set $var to the correct value. See unit Inlibc.
?X:
?MAKE:Whoa: Myread startsh hint
?MAKE: -pick add $@ %<
?F:./whoa
?T:var was td tu hintfile
: set up the script used to warn in case of inconsistency
cat <<EOS >whoa
$startsh
EOS
cat <<'EOSC' >>whoa
dflt=y
case "$hint" in
  recommended)
```

```
 case "$hintfile" in
 ") echo "The $hint value for \$$var on this machine was \"$was\"!" >&4
  ;;
 *) echo "Hmm.  Based on the hints in hints/$hintfile.sh, " >&4
  echo "the $hint value for \$$var on this machine was \"$was\"!" >&4
  ;;
 esac
 ;;
   *) echo " "
 echo "*** WHOA THERE!!! ***" >&4
 echo "    The $hint value for \$$var on this machine was
 \"$was\"!" >&4
 ;;
esac
rp="    Keep the $hint value?"
. ./myread
case "$ans" in
y) td=$was; tu=$was;;
esac
EOSC
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Whoa.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2017-2018, H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_accept4: Inlibc
?MAKE: -pick add $@ %<
?S:d_accept4:
?S: This variable conditionally defines HAS_ACCEPT4 if accept4() is
?S: available to accept socket connections.
?S:.
?C:HAS_ACCEPT4:
?C: This symbol, if defined, indicates that the accept4 routine is
?C: available to accept socket connections.
?C:.
?H:#$d_accept4 HAS_ACCEPT4 /**/
?H:.
?LINT:set d_accept4
: see if accept4 exists
```

```
set accept4 d_accept4
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_accept4.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Filexp.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  15:52:53  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: added HOME to the ?T: line since metalint now checks ${HOME}
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:03:00  ram
?RCS: patch23: made sure error status from csh is propagated (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:53  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which will expand filenames beginning
?X:
 with tildes.  The script is deleted at the end of Configure.
?X:
?MAKE:Filexp: startsh sed test expr eunicefix
?MAKE: -pick add $@ %<
?F:./filexp
?T:HOME LOGDIR dir me name failed
: set up shell script to do ~ expansion
cat >filexp <<EOSS
$startsh
: expand filename
?X:
?X: The case entries below escape the ~ as some shells have shown expansion
?X: of the ~ during here-doc processing.
?X:
case "\$1" in
\~/*|\~)
```

```
 echo \$1 | $sed "s|~|\${HOME-\$LOGDIR}|"
 ;;
\~*)
 if $test -f /bin/csh; then
  /bin/csh -f -c "glob \$1"
  failed=\$?
  echo ""
  exit \$failed
 else
  name=\`$expr x\$1 : '..\([^/]*\)'\`
  dir=\`$sed -n -e "/^\${name}:/{s/^[^:]*:[^:]*:[^:]*:[^:]*:[^:]*:\([^:]*\).*'"\$'"/\1/" -e p -e q -e '}' </etc/passwd\`
  if $test ! -d "\$dir"; then
   me=\`basename \$0\`
   echo "\$me: can't locate home directory for: \$name" >&2
   exit 1
  fi
  case "\$1" in
  */*)
   echo \$dir/\`$expr x\$1 : '..[^/]*/\(.*\)'\`
   ;;
  *)
   echo \$dir
   ;;
  esac
 fi
 ;;
*)
 echo \$1
 ;;
esac
EOSS
chmod
 +x filexp
$eunicefix filexp
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Filexp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_ustat.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_ustat: Inhdr Hasfield
```

```
?MAKE: -pick add $@ %<
?S:i_ustat:
?S: This variable conditionally defines the I_USTAT symbol, and indicates
?S: whether a C program should include <ustat.h>.
?S:.
?C:I_USTAT:
?C: This symbol, if defined, indicates that <ustat.h> exists and
?C: should be included.
?C:.
?H:#$i_ustat I_USTAT  /**/
?H:.
?LINT:set i_ustat
: see if this is a ustat.h system
set ustat.h i_ustat
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_ustat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorbin.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorbin.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:d_vendorbin vendorbin vendorbinexp installvendorbin: Getfile \
 Setprefixvar Oldconfig Prefixit vendorprefix
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorbin:
?S: This variable contains the eventual value of the VENDORBIN symbol.
?S: It may have a ~ on the front.
?S: The standard distribution will put nothing in this directory.
?S: Vendors who distribute perl
 may wish to place additional
?S: binaries in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
```

```
?S:.
?S:vendorbinexp:
?S: This variable is the ~name expanded version of vendorbin, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorbin="
?S:installvendorbin:
?S: This variable is really the same as vendorbinexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?S:d_vendorbin:
?S: This variable conditionally defines PERL_VENDORBIN.
?S:.
?C:PERL_VENDORBIN:
?C: If defined, this symbol contains the name of a directory
?C: for holding vendor-supplied executables.
?C: It may have a ~ on the front.
?C: The standard distribution will put nothing in this directory.
?C: Vendors who distribute perl may wish to place additional
?C: binaries in this directory with
?C:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?C: or equivalent.
  See INSTALL for details.
?C:.
?C:PERL_VENDORBIN_EXP:
?C: This symbol contains the ~name expanded version of VENDORBIN, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#$d_vendorbin PERL_VENDORBIN "$vendorbin"  /**/
?H:#$d_vendorbin PERL_VENDORBIN_EXP "$vendorbinexp"  /**/
?H:.
?LINT:change prefixvar
?LINT:set installvendorbin
: Set the vendorbin variables
case "$vendorprefix" in
") d_vendorbin="$undef"
 vendorbin="
 vendorbinexp="
 ;;
*) d_vendorbin="$define"
 : determine where vendor-supplied executables go.
 case "$vendorbin" in
 ") dflt=$vendorprefix/bin ;;
 *) dflt="$vendorbin" ;;
 esac
 fn=d~+
 rp='Pathname for the vendor-supplied executables directory?'
```

```
 . ./getfile
 vendorbin="$ans"
 vendorbinexp="$ansexp"
 ;;
esac
prefixvar=vendorbin
. ./installprefix
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/vendorbin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Obsol_h.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Obsol_h.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:11  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file is prepended to .MT/Obsol_h if that file is not empty. That file
?X: contains the necessary mappings of new symbols to obsolete ones.
?X:
?MAKE:Obsol_h:
?MAKE: -pick prepend $@ ./Obsol_h
?LINT:nocomment
/*
* The following symbols are obsolete. They are mapped to the new
* symbols only to ease the transition process. The sources
 should be
* updated so as to use the new symbols only, as the support for these
* obsolete symbols may end without notice.
*/
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Obsol_h.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_bfd.U,v $
```

```
?RCS:
?RCS: Copyright (c) 2014 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_bfd: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_bfd:
?S: This variable conditionally defines the I_BFD symbol, and
?S: indicates whether a C program can include <bfd.h>.
?S:.
?C:I_BFD:
?C: This symbol, if defined, indicates that <bfd.h> exists and
?C: can be included.
?C:.
?H:#$i_bfd I_BFD  /**/
?H:.
?LINT:set i_bfd
: see if this is a bfd.h system
set bfd.h i_bfd
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_bfd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_nanosleep: Inlibc
?MAKE: -pick add $@ %<
?S:d_nanosleep:
?S: This variable conditionally defines HAS_NANOSLEEP
?S: if nanosleep() is available to sleep with 1E-9 sec accuracy.
?S:.
?C:HAS_NANOSLEEP:
?C: This symbol, if defined, indicates that the nanosleep
?C: system call is available to sleep with 1E-9 sec accuracy.
?C:.
```

```
?H:#$d_nanosleep HAS_NANOSLEEP  /**/
?H:.
?LINT:set d_nanosleep
: see if nanosleep exists
set nanosleep d_nanosleep
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_nanosleep.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Tr.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  18:00:54  ram
?RCS: patch43: forgot to quote $@ to protect against "evil" characters
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:58:35  ram
?RCS: patch36: created
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to do a character translation. It catches translations to uppercase or
?X: to lowercase, and then invokes the real tr to perform the job.
?X:
?X: This unit is necessary on HP machines (HP strikes again!)
 with non-ascii
?X: ROMAN8-charset, where normal letters are not arranged in a row, so a-z
?X: covers not the whole alphabet but lots of special chars. This was reported
?X: by Andreas Sahlbach <a.sahlbach@tu-bs.de>.
?X:
?X: Units performing a tr '[A-Z]' '[a-z]' or the other way round should include
?X: us in their dependency and use ./tr instead.
?X:
?MAKE:Tr: startsh tr eunicefix
?MAKE: -pick add $@ %<
?F:./tr
?T:up low LC_ALL
: see whether [:lower:] and [:upper:] are supported character classes
```

```
echo " "
case "`echo AbyZ | LC_ALL=C $tr '[:lower:]' '[:upper:]' 2>/dev/null`" in
ABYZ)
 echo "Good, your tr supports [:lower:] and [:upper:] to convert case." >&4
 up='[:upper:]'
 low='[:lower:]'
 ;;
*) # There is a discontinuity in EBCDIC between 'I' and 'J'
       # (0xc9 and 0xd1), therefore that is a nice testing point.
       if test "X$up" = X -o "X$low" = X; then
    case "`echo IJ | LC_ALL=C $tr '[I-J]' '[i-j]' 2>/dev/null`" in
    ij) up='[A-Z]'
        low='[a-z]'
  ;;

 esac
       fi
 if test "X$up" = X -o "X$low" = X; then
    case "`echo IJ | LC_ALL=C $tr I-J i-j 2>/dev/null`" in
    ij) up='A-Z'
  low='a-z'
  ;;
    esac
       fi
 if test "X$up" = X -o "X$low" = X; then
    case "`echo IJ | od -x 2>/dev/null`" in
    *C9D1*|*c9d1*)
  echo "Hey, this might be EBCDIC." >&4
  if test "X$up" = X -o "X$low" = X; then
     case "`echo IJ | \
   LC_ALL=C $tr '[A-IJ-RS-Z]' '[a-ij-rs-z]' 2>/dev/null`" in
     ij) up='[A-IJ-RS-Z]'
         low='[a-ij-rs-z]'
   ;;
     esac
  fi
  if test "X$up" = X -o "X$low" = X; then
     case "`echo IJ | LC_ALL=C $tr A-IJ-RS-Z a-ij-rs-z 2>/dev/null`" in
     ij) up='A-IJ-RS-Z'
         low='a-ij-rs-z'
   ;;
     esac
  fi
  ;;
    esac
 fi
esac
case "`echo IJ | LC_ALL=C $tr \"$up\" \"$low\" 2>/dev/null`" in
```

```
ij)
   echo "Using $up and $low to convert case." >&4
   ;;
*)
   echo "I don't know how to translate letters from upper to lower case." >&4
   echo "Your tr is not acting any way I know of." >&4
    exit 1
   ;;
esac
: set up the translation script tr, must be called with ./tr of course
cat >tr <<EOSC
$startsh
case "\$1\$2" in
'[A-Z][a-z]') LC_ALL=C exec $tr '$up' '$low';;
'[a-z][A-Z]') LC_ALL=C exec $tr '$low' '$up';;
esac
LC_ALL=C exec $tr "\$@"
EOSC
chmod +x tr
$eunicefix tr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Tr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996,1998 Andy Dougherty
?RCS: Copyright (c) 1996, Sven Verdoolaege
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_gnulibc gnulibc_version: Myread Oldconfig Setvar rm_try \
 cat Compile run
?MAKE: -pick add $@ %<
?S:d_gnulibc:
?S: Defined if we're dealing with the GNU C Library.
?S:.
?S:gnulibc_version:
?S: This variable contains the version number of the GNU C library.
?S: It is usually something like '2.2.5'.  It is a plain " if this
?S: is not the GNU C library, or if the version is unknown.
```

```
?S:.
?C:HAS_GNULIBC ~ %<:
?C: This
 symbol, if defined, indicates to the C program that
?C: the GNU C library is being used.  A better check is to use
?C: the __GLIBC__ and __GLIBC_MINOR__ symbols supplied with glibc.
?C:.
?H:?%<:#$d_gnulibc HAS_GNULIBC   /**/
?H:?%<:#if defined(HAS_GNULIBC) && !defined(_GNU_SOURCE)
?H:?%<:#define _GNU_SOURCE
?H:?%<:#endif
?H:.
?F:!glibc.ver !try.c !try
?LINT: set d_gnulibc
?LINT: usefile try.c
?LINT: known _GNU_SOURCE
?X: gnulibc can be executed by calling __libc_main().
?X: Ulrich Drepper doesn't think any other libc does that,
?X: but we check if it says 'GNU C Library' to be sure.
?X:
?X: Alas, as of 3/1998 glibc 2.0.7 reportedly isn't going to
?X: have __libc_main() anymore. :-(.  Fortunately, all released
?X: versions of glibc 2.x.x _do_ have CPP variables.  For 2.0.6,
?X: they are:
?X: #define __GLIBC__  2
?X: #define__GLIBC_MINOR__ 0.
?X: (The '6' isn't available :-(.
?X: glibc2.1 will also have
?X:  extern const char * __gnu_get_libc_release(void);
?X:  extern const char *
 __gnu_get_libc_version(void);
?X: functions.   --thanks to Andreas Jaeger.   --AD  6/1998.
?X: Although the exact format isn't documented, __gnu_get_libc_version()
?X: returns a simple string '2.1.3' in glibc 2.1.3.
?X:
: determine whether we are using a GNU C library
echo " "
echo "Checking for GNU C Library..." >&4
cat >try.c <<'EOCP'
/* Find out version of GNU C library.  __GLIBC__ and __GLIBC_MINOR__
  alone are insufficient to distinguish different versions, such as
  2.0.6 and 2.0.7.  The function gnu_get_libc_version() appeared in
  libc version 2.1.0.      A. Dougherty,  June 3, 2002.
*/
#include <stdio.h>
int main(void)
{
#ifdef __GLIBC__
```

```
#   ifdef __GLIBC_MINOR__
#       if __GLIBC__ >= 2 && __GLIBC_MINOR__ >= 1
#           include <gnu/libc-version.h>
     printf("%s\n",  gnu_get_libc_version());
#       else
     printf("%d.%d\n",  __GLIBC__, __GLIBC_MINOR__);
#       endif
#   else
 printf("%d\n",  __GLIBC__);
#   endif
   return 0;
#else
   return 1;
#endif
}
EOCP
set
 try
if eval $compile_ok && $run ./try > glibc.ver; then
 val="$define"
 gnulibc_version=`$cat glibc.ver`
 echo "You are using the GNU C Library version $gnulibc_version"
else
 val="$undef"
 gnulibc_version=''
 echo "You are not using the GNU C Library"
fi
$rm_try glibc.ver
set d_gnulibc
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_gnulibc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_recvmsg: Inlibc
?MAKE: -pick add $@ %<
?S:d_recvmsg:
?S: This variable conditionally defines the HAS_RECVMSG symbol, which
?S: indicates to the C program that the recvmsg() routine is available.
```

```
?S:.
?C:HAS_RECVMSG:
?C: This symbol, if defined, indicates that the recvmsg routine is
?C: available to send structured socket messages.
?C:.
?H:#$d_recvmsg HAS_RECVMSG  /**/
?H:.
?LINT:set d_recvmsg
: see if recvmsg exists
set recvmsg d_recvmsg
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_recvmsg.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_varhdr.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_varhdr.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:54:42  ram
?RCS: patch61: varargs script now starts with leading "startsh"
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:21:02  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/13  15:26:05  ram
?RCS: patch27: this unit now supersedes old i_stdarg.U and i_varargs.U
?RCS: patch27: modified to avoid spurious Whoa warnings (ADO)
?RCS:
?RCS: Revision 3.0
  1993/08/18  12:08:49  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_stdarg i_varargs i_varhdr: cat +cc +ccflags rm test Setvar \
 Findhdr startsh _o
?MAKE: -pick add $@ %<
?S:i_stdarg:
?S: This variable conditionally defines the I_STDARG symbol, which
?S: indicates to the C program that <stdarg.h> exists and should
```

```
?S: be included.
?S:.
?S:i_varargs:
?S: This variable conditionally defines I_VARARGS, which indicates
?S: to the C program that it should include <varargs.h>.
?S:.
?S:i_varhdr:
?S: Contains the name of the header to be included to get va_dcl definition.
?S: Typically one of varargs.h or stdarg.h.
?S:.
?C:I_STDARG:
?C: This symbol, if defined, indicates that <stdarg.h> exists and should
?C: be included.
?C:.
?C:I_VARARGS:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <varargs.h>.
?C:.
?H:#$i_stdarg I_STDARG  /**/
?H:#$i_varargs I_VARARGS /**/
?H:.
?W:%<:va_dcl
?F:!varargs
?T:valstd
?LINT:set i_stdarg i_varargs
?X:
?X:
 Don't use setvar because the varargs test below might override these.
?X: Actually, the messages here are just informative. We don't wish to set
?X: i_varargs or i_stdarg to their final value before knowing which of the
?X: two we'll include.
?X:
: see if stdarg is available
echo " "
if $test `./findhdr stdarg.h`; then
 echo "<stdarg.h> found." >&4
 valstd="$define"
else
 echo "<stdarg.h> NOT found." >&4
 valstd="$undef"
fi

: see if varargs is available
echo " "
if $test `./findhdr varargs.h`; then
 echo "<varargs.h> found." >&4
else
 echo "<varargs.h> NOT found, but that's ok (I hope)." >&4
```

```
fi

?X:
?X: if you have stdarg.h, you need to support prototypes to actually use it;
?X: but if stdarg.h exists and the compiler doesn't support prototypes (for some
?X: bizarre reason), we'll fall back to varargs.h anyway so it's not so bad.
?X:
: set up the varargs testing programs
$cat > varargs.c <<EOP
#ifdef I_STDARG
#include <stdarg.h>
#endif
#ifdef I_VARARGS
#include <varargs.h>
#endif

#ifdef
 I_STDARG
int f(char *p, ...)
#else
int f(va_alist)
va_dcl
#endif
{
 va_list ap;
#ifndef I_STDARG
 char *p;
#endif
#ifdef I_STDARG
 va_start(ap,p);
#else
 va_start(ap);
 p = va_arg(ap, char *);
#endif
 va_end(ap);
 return 0;
}
EOP
$cat > varargs <<EOP
$startsh
if $cc -c $ccflags -D\$1 varargs.c >/dev/null 2>&1; then
 echo "true"
else
 echo "false"
fi
$rm -f varargs$_o
EOP
chmod +x varargs
```

```
: now check which varargs header should be included
echo " "
i_varhdr=''
val=''
case "$valstd" in
"$define")
 if `./varargs I_STDARG`; then
  val='stdarg.h'
 elif `./varargs I_VARARGS`; then
  val='varargs.h'
 fi
 ;;
*)
 if `./varargs I_VARARGS`; then
  val='varargs.h'
 fi
 ;;
esac
case "$val" in
'')
 echo " "
 echo "*** WHOA THERE!!! ***" >&4
 echo "    Your C compiler \"$cc\" doesn't seem to support stdarg or varargs!" >&4
 case "$knowitall" in
 '')
 echo "    I'm giving up; maybe you can try again with a different compiler?" >&4
  exit 1
  ;;
 esac
echo "I could not find the definition for va_dcl...
 You have problems..." >&4
 val="$undef"; set i_stdarg; eval $setvar
 val="$undef"; set i_varargs; eval $setvar
 ;;
*)
 set i_varhdr
 eval $setvar
 case "$i_varhdr" in
 stdarg.h)
  val="$define"; set i_stdarg; eval $setvar
  val="$undef"; set i_varargs; eval $setvar
  ;;
 varargs.h)
  val="$undef"; set i_stdarg; eval $setvar
  val="$define"; set i_varargs; eval $setvar
  ;;
 esac
```

```
 echo "We'll include <$i_varhdr> to get va_dcl definition." >&4;;
esac
$rm -f varargs*
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_varhdr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strtok.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
?RCS: $Log: d_strtok.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:38  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The strtok routine now appears to be a standard one, but it was
?X: missing in early BSD systems.
?X:
?MAKE:d_strtok: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtok:
?S: This variable conditionally defines HAS_STRTOK if strtok() is
?S: available to scan strings for tokens.
?S:.
?C:HAS_STRTOK (STRTOK):
?C: This symbol, if defined, indicates
 that the strtok routine is
?C: available to scan strings for tokens.
?C:.
?H:#$d_strtok HAS_STRTOK /**/
?H:.
?LINT:set d_strtok
: see if strtok exists
set strtok d_strtok
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strtok.U

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```
?RCS: $Id: d_shmdt.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_shmdt.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_shmdt: Inlibc
?MAKE: -pick add $@ %<
?S:d_shmdt:
?S: This variable conditionally defines the HAS_SHMDT symbol, which
?S: indicates to the C program that the shmdt() routine is available.
?S:.
?C:HAS_SHMDT:
?C: This symbol, if defined, indicates that the shmdt() routine is
?C: available to detach a shared memory segment from the process
 space.
?C:.
?H:#$d_shmdt HAS_SHMDT  /**/
?H:.
?LINT:set d_shmdt
: see if shmdt exists
set shmdt d_shmdt
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_shmdt.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: fpostype.U,v $
?RCS: Revision 3.0.1.2  1994/08/29  16:20:52  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:59:59  ram
?RCS: patch30: created
?RCS:
?MAKE:fpostype: Myread Typedef
?MAKE: -pick add $@ %<
?S:fpostype:
?S: This variable defines Fpos_t to be something like fpost_t, long,
?S: uint, or whatever type is used to declare file positions in libc.
?S:.
?C:Fpos_t:
?C: This symbol holds the type used to declare file positions
 in libc.
?C: It can be fpos_t, long, uint, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Fpos_t $fpostype  /* File position type */
?H:.
: see what type file positions are declared as in the library
set fpos_t fpostype long stdio.h sys/types.h
eval $typedef
echo " "
dflt="$fpostype"
rp="What is the type for file position used by fsetpos()?"
. ./myread
fpostype="$ans"
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/fpostype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_db.U,v 3.0.1.3 1995/07/25 14:10:22 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
```

```
?RCS: $Log: i_db.U,v $
?RCS: Revision 3.0.1.3  1995/07/25  14:10:22  ram
?RCS: patch56: conditionally use const in test programs (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1995/05/12  12:14:42  ram
?RCS: patch54: extended for more intimate DB probing (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:21:50  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:i_db db_hashtype db_prefixtype \
 db_version_major
 db_version_minor db_version_patch : \
 Inhdr +cc +ccflags rm_try compiler_warning cat \
 Compile libs sed run i_stdlib
?MAKE: -pick add $@ %<
?S:i_db:
?S: This variable conditionally defines the I_DB symbol, and indicates
?S: whether a C program may include Berkeley's DB include file <db.h>.
?S:.
?S:db_hashtype:
?S: This variable contains the type of the hash structure element
?S: in the <db.h> header file.  In older versions of DB, it was
?S: int, while in newer ones it is u_int32_t.
?S:.
?S:db_prefixtype:
?S: This variable contains the type of the prefix structure element
?S: in the <db.h> header file.  In older versions of DB, it was
?S: int, while in newer ones it is size_t.
?S:.
?S:db_version_major:
?S: This variable contains the major version number of
?S: Berkeley DB found in the <db.h> header file.
?S:.
?S:db_version_minor:
?S: This variable contains the minor version number of
?S: Berkeley DB found in the <db.h> header file.
?S: For DB version 1 this is always 0.
?S:.
?S:db_version_patch:
?S: This
 variable contains the patch version number of
?S: Berkeley DB found in the <db.h> header file.
?S: For DB version 1 this is always 0.
?S:.
?C:I_DB:
?C: This symbol, if defined, indicates to the C program that it should
?C: include Berkeley's DB include file <db.h>.
```

```
?C:.
?C:DB_Prefix_t:
?C: This symbol contains the type of the prefix structure element
?C: in the <db.h> header file.  In older versions of DB, it was
?C: int, while in newer ones it is u_int32_t.
?C:.
?C:DB_Hash_t:
?C: This symbol contains the type of the prefix structure element
?C: in the <db.h> header file.  In older versions of DB, it was
?C: int, while in newer ones it is size_t.
?C:.
?C:DB_VERSION_MAJOR_CFG:
?C: This symbol, if defined, defines the major version number of
?C: Berkeley DB found in the <db.h> header when Perl was configured.
?C:.
?C:DB_VERSION_MINOR_CFG:
?C: This symbol, if defined, defines the minor version number of
?C: Berkeley DB found in the <db.h> header when Perl was configured.
?C: For
 DB version 1 this is always 0.
?C:.
?C:DB_VERSION_PATCH_CFG:
?C: This symbol, if defined, defines the patch version number of
?C: Berkeley DB found in the <db.h> header when Perl was configured.
?C: For DB version 1 this is always 0.
?C:.
?H:#$i_db I_DB  /**/
?H:#define DB_Hash_t $db_hashtype  /**/
?H:#define DB_Prefix_t $db_prefixtype  /**/
?H:#define DB_VERSION_MAJOR_CFG $db_version_major /**/
?H:#define DB_VERSION_MINOR_CFG $db_version_minor /**/
?H:#define DB_VERSION_PATCH_CFG $db_version_patch /**/
?H:.
?F:!try
?LINT:change libs
: see if this is a db.h system
set db.h i_db
eval $inhdr

case "$i_db" in
$define)
 : Check db version.
 echo " "
 echo "Checking Berkeley DB version ..." >&4
 $cat >try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
```

```
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <db.h>
int main(int argc, char *argv[])
{
#ifdef DB_VERSION_MAJOR /* DB version >= 2 */
   int Major, Minor, Patch ;
   unsigned long Version ;
   (void)db_version(&Major,
 &Minor, &Patch) ;
   if (argc == 2) {
       printf("%d %d %d %d %d %d\n",
             DB_VERSION_MAJOR, DB_VERSION_MINOR, DB_VERSION_PATCH,
             Major, Minor, Patch);
       exit(0);
   }
   printf("You have Berkeley DB Version 2 or greater.\n");

   printf("db.h is from Berkeley DB Version %d.%d.%d\n",
  DB_VERSION_MAJOR, DB_VERSION_MINOR, DB_VERSION_PATCH);
   printf("libdb is from Berkeley DB Version %d.%d.%d\n",
  Major, Minor, Patch) ;

   /* check that db.h & libdb are compatible */
   if (DB_VERSION_MAJOR != Major || DB_VERSION_MINOR != Minor || DB_VERSION_PATCH != Patch) {
 printf("db.h and libdb are incompatible.\n") ;
       exit(3);
   }

   printf("db.h and libdb are compatible.\n") ;

   Version = DB_VERSION_MAJOR * 1000000 + DB_VERSION_MINOR * 1000
  + DB_VERSION_PATCH ;

   /* needs to be >= 2.3.4 */
   if (Version < 2003004) {
   /* if (DB_VERSION_MAJOR == 2 && DB_VERSION_MINOR == 0 && DB_VERSION_PATCH < 5) { */
 printf("Perl
 needs Berkeley DB 2.3.4 or greater.\n") ;
       exit(2);
   }

   exit(0);
#else
#if defined(_DB_H_) && defined(BTREEMAGIC) && defined(HASHMAGIC)
   if (argc == 2) {
       printf("1 0 0\n");
```

```
      exit(0);
    }
    printf("You have Berkeley DB Version 1.\n");
    exit(0); /* DB version < 2: the coast is clear. */
#else
    exit(1); /* <db.h> not Berkeley DB? */
#endif
#endif
}
EOCP
 set try
 if eval $compile_ok && $run ./try; then
  echo 'Looks OK.' >&4
  set `$run ./try 1`
  db_version_major=$1
  db_version_minor=$2
  db_version_patch=$3
 else
  echo "I can't use Berkeley DB with your <db.h>.  I'll disable Berkeley DB." >&4
  i_db=$undef
  case " $libs " in
  *"-ldb "*)
   : Remove db from list of libraries to use
   echo "Removing unusable -ldb from library list" >&4
   set `echo X $libs | $sed -e 's/-ldb / /' -e 's/-ldb$//'`
   shift
   libs="$*"
   echo "libs = $libs" >&4
   ;;
  esac
 fi
 $rm_try
 ;;
esac

@if DB_Hash_t
case "$i_db" in
define)
 : Check the return
 type needed for hash
 echo " "
 echo "Checking return type needed for hash for Berkeley DB ..." >&4
 $cat >try.c <<EOCP
#include <sys/types.h>
#include <db.h>

#ifndef DB_VERSION_MAJOR
u_int32_t hash_cb (const void* ptr, size_t size)
```

```
{
 return 0;
}
HASHINFO info;
int main()
{
 info.hash = hash_cb;
}
#endif
EOCP
 if $cc $ccflags -c try.c >try.out 2>&1 ; then
  if $compiler_warning try.out >>/dev/null 2>&1 ; then
   db_hashtype='int'
  else
   db_hashtype='u_int32_t'
  fi
 else
  : XXX Maybe we should just give up here.
  db_hashtype=u_int32_t
  $cat try.out >&4
  echo "Help:  I can't seem to compile the db test program." >&4
  echo "Something's wrong, but I'll assume you use $db_hashtype." >&4
 fi
 $rm_try
 echo "Your version of Berkeley DB uses $db_hashtype for hash."
 ;;
*) db_hashtype=u_int32_t
 ;;
esac
@end
@if DB_Prefix_t
case "$i_db" in
define)
 : Check the return type needed for prefix
 echo " "
 echo "Checking return type needed for prefix for Berkeley DB ..." >&4
 cat >try.c <<EOCP
#include
 <sys/types.h>
#include <db.h>

#ifndef DB_VERSION_MAJOR
size_t prefix_cb (const DBT *key1, const DBT *key2)
{
 return 0;
}
BTREEINFO info;
int main()
```

```
{
 info.prefix = prefix_cb;
}
#endif
EOCP
 if $cc $ccflags -c try.c  >try.out 2>&1 ; then
  if $compiler_warning try.out >>/dev/null 2>&1 ; then
   db_prefixtype='int'
  else
   db_prefixtype='size_t'
  fi
 else
  db_prefixtype='size_t'
  : XXX Maybe we should just give up here.
  $cat try.out >&4
  echo "Help:  I can't seem to compile the db test program." >&4
  echo "Something's wrong, but I'll assume you use $db_prefixtype." >&4
 fi
 $rm_try
 echo "Your version of Berkeley DB uses $db_prefixtype for prefix."
 ;;
*) db_prefixtype='size_t'
 ;;
esac
@end
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_db.U
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```
?RCS: $Id: i_sysvfs.U,v $
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysvfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysvfs:
?S: This variable conditionally defines the I_SYSVFS symbol,
?S: and indicates whether a C program should include <sys/vfs.h>.
?S:.
?C:I_SYS_VFS:
?C: This symbol, if defined, indicates that <sys/vfs.h> exists and
?C: should be included.
?C:.
```

```
?H:#$i_sysvfs I_SYS_VFS  /**/
?H:.
?LINT:set i_sysvfs
: see if this is a sys/vfs.h system
set sys/vfs.h i_sysvfs
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysvfs.U
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```
?RCS: $Id$
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_u32align: Compile cat rm_try Oldconfig run i_stdlib \
 byteorder u32type Myread Setvar u8type signal_t
?MAKE: -pick add $@ %<
?S:d_u32align:
?S: This variable tells whether you must access character data
?S: through U32-aligned pointers.
?S:.
?C:U32_ALIGNMENT_REQUIRED:
?C: This symbol, if defined, indicates that you must access
?C: character data through U32-aligned pointers.
?C:.
?H:?%<:#ifndef U32_ALIGNMENT_REQUIRED
?H:?%<:#$d_u32align U32_ALIGNMENT_REQUIRED /**/
?H:?%<:#endif
?H:.
?F:!try
: Checking 32bit alignedness
$cat
 <<EOM

Checking to see whether you can access character data unalignedly...
EOM
case "$d_u32align" in
")   $cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
```

```
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#define U32 $u32type
#define BYTEORDER 0x$byteorder
#define U8 $u8type
#include <signal.h>
#ifdef SIGBUS
$signal_t bletch(int s) { exit(4); }
#endif
int main() {
#if BYTEORDER == 0x1234 || BYTEORDER == 0x4321
   volatile U8 buf[8];
   volatile U32 *up;
   int i;

   if (sizeof(U32) != 4) {
 printf("sizeof(U32) is not 4, but %d\n", sizeof(U32));
 exit(1);
   }

   fflush(stdout);

#ifdef SIGBUS
   signal(SIGBUS, bletch);
#endif

   buf[0] = 0;
   buf[1] = 0;
   buf[2] = 0;
   buf[3] = 1;
   buf[4] = 0;
   buf[5] = 0;
   buf[6] = 0;
   buf[7] = 1;

   for (i = 0; i < 4; i++) {
 up = (U32*)(buf + i);
 if (! ((*up == 1 << (8*i)) ||   /* big-endian */
        (*up == 1 << (8*(3-i)))  /* little-endian */
       )
    )
 {
     printf("read failed (%x)\n", *up);

    exit(2);
 }
   }
```

```
   /* write test */
   for (i = 0; i < 4; i++) {
 up = (U32*)(buf + i);
 *up = 0xBeef;
 if (*up != 0xBeef) {
     printf("write failed (%x)\n", *up);
     exit(3);
 }
   }

   exit(0);
#else
   printf("1\n");
   exit(1);
#endif
   return 0;
}
EOCP
set try
if eval $compile_ok; then
 echo "(Testing for character data alignment may crash the test.  That's okay.)" >&4
 $run ./try 2>&1 >/dev/null
 case "$?" in
 0) cat >&4 <<EOM
You can access character data pretty unalignedly.
EOM
  d_u32align="$undef"
  ;;
 *) cat >&4 <<EOM
It seems that you must access character data in an aligned manner.
EOM
  d_u32align="$define"
  ;;
 esac
else
 rp='Can you access character data at unaligned addresses?'
 dflt='n'
 . ./myread
 case "$ans" in
 [yY]*) d_u32align="$undef"  ;;
 *) d_u32align="$define" ;;
 esac
fi
$rm_try
;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_u32align.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: gidtype.U,v $
?RCS: Revision 3.0.1.3  1994/08/29  16:21:44  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS: patch32: removed useless usage of Setvar (for now)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:21:07  ram
?RCS: patch27: added lint hint
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:01:51  ram
?RCS: patch23: protected gidtype setting via setvar (ADO)
?RCS: patch23: made Gid_t comment more explicit (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:11  ram
?RCS:
 Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:gidtype: Myread Typedef Findhdr
?MAKE: -pick add $@ %<
?S:gidtype:
?S: This variable defines Gid_t to be something like gid_t, int,
?S: ushort, or whatever type is used to declare the return type
?S: of getgid().  Typically, it is the type of group ids in the kernel.
?S:.
?C:Gid_t (GIDTYPE):
?C: This symbol holds the return type of getgid() and the type of
?C: argument to setrgid() and related functions.  Typically,
?C: it is the type of group ids in the kernel. It can be int, ushort,
?C: uid_t, etc... It may be necessary to include <sys/types.h> to get
?C: any typedef'ed information.
?C:.
?H:#define Gid_t $gidtype  /* Type for getgid(), etc... */
?H:.
?T:xxx
```

```
: see what type gids are declared as in the kernel
set gid_t gidtype xxx stdio.h sys/types.h
eval $typedef
case "$gidtype" in
xxx)
 xxx=`./findhdr sys/user.h`
 set `grep 'groups\[NGROUPS\];' "$xxx" 2>/dev/null` unsigned short
 case $1 in
 unsigned) dflt="$1 $2" ;;
 *) dflt="$1"
 ;;
 esac
 ;;
*) dflt="$gidtype";;
esac
echo " "
rp="What is the type for group ids returned by getgid()?"
. ./myread
gidtype="$ans"
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/gidtype.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_safebcpy.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  15:40:58  ram
?RCS: patch61: improved overlapping copy check
?RCS: patch61: comfort them if they have memmove
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.3  1995/07/25  13:58:40  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.2  1995/01/11  15:29:23  ram
?RCS: patch45: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:49:03
```

```
  ram
?RCS: patch23: ensure string is not optimized in read-only memory (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_safebcpy: cat d_bcopy +cc +optimize +ccflags +ldflags +libs rm \
 d_memmove i_memory i_stdlib i_string i_unistd Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_safebcpy:
?S: This variable conditionally defines the HAS_SAFE_BCOPY symbol if
?S: the bcopy() routine can do overlapping copies.
?S:.
?C:HAS_SAFE_BCOPY (SAFE_BCOPY):
?C: This symbol, if defined, indicates that the bcopy routine is available
?C: to copy potentially overlapping memory blocks. Otherwise you should
?C: probably use memmove() or memcpy(). If neither is defined, roll your
?C: own version.
?C:.
?H:#$d_safebcpy HAS_SAFE_BCOPY /**/
?H:.
?F:!safebcpy
?LINT: set d_safebcpy
: can bcopy handle overlapping blocks?
?X: assume the worst
val="$undef"
case "$d_bcopy" in
"$define")
 echo " "
 echo "Checking to see if your bcopy() can do overlapping
 copies..." >&4
 $cat >foo.c <<EOCP
#$i_memory I_MEMORY
#$i_stdlib I_STDLIB
#$i_string I_STRING
#$i_unistd I_UNISTD
EOCP
 $cat >>foo.c <<'EOCP'
#include <stdio.h>
#ifdef I_MEMORY
#  include <memory.h>
#endif
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#ifdef I_STRING
#  include <string.h>
#else
```

```
#  include <strings.h>
#endif
#ifdef I_UNISTD
#  include <unistd.h>  /* Needed for NetBSD */
#endif
int main()
{
char buf[128], abc[128];
char *b;
int len;
int off;
int align;

?X: Copy "abcde..." string to char abc[] so that gcc doesn't
?X: try to store the string in read-only memory.
bcopy("abcdefghijklmnopqrstuvwxyz0123456789", abc, 36);

for (align = 7; align >= 0; align--) {
 for (len = 36; len; len--) {
  b = buf+align;
  bcopy(abc, b, len);
  for (off = 1; off <= len; off++) {
   bcopy(b, b+off, len);
   bcopy(b+off, b, len);
   if (bcmp(b, abc, len))
    exit(1);
  }
 }
}
exit(0);
}
EOCP
 if $cc $optimize $ccflags $ldflags \
      -o safebcpy foo.c $libs >/dev/null 2>&1; then
  if ./safebcpy
 2>/dev/null; then
   echo "Yes, it can."
   val="$define"
  else
   echo "It can't, sorry."
   case "$d_memmove" in
   "$define") echo "But that's Ok since you have memmove()." ;;
   esac
  fi
 else
  echo "(I can't compile the test program, so we'll assume not...)"
  case "$d_memmove" in
  "$define") echo "But that's Ok since you have memmove()." ;;
```

```
  esac
 fi
 ;;
esac
$rm -f foo.* safebcpy core
set d_safebcpy
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_safebcpy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: dlsrc.U,v$
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: dlext.U,v $
?RCS:
?X:  hpux support thanks to Jeff Okamoto <okamoto@hpcc101.corp.hp.com>
?X:
?X:  To create a shared library, you must compile ALL source files in the
?X:  library with +z (or possibly +Z if the library is whopping huge),
?X:  then link the library with -b.  Example:
?X:   cc -c +z module_a.c
?X:   cc -c +z module_b.c
?X:   ld -b module_a.o module_b.o -o module.sl
?X:
?MAKE:dlext: \
 Getfile Myread cat usedl so
?MAKE: -pick add $@ %<
?Y:BOTTOM
?S:dlext:
?S: This variable contains the extension that is to be used for the
?S: dynamically loaded modules that perl generates.
?S:.
: Check what extension to use for shared libs
case "$usedl" in
$define|y|true)
 $cat <<
 EOM

On a few systems, the dynamically loaded modules that perl generates and uses
will need a different extension than shared libs. The default will probably
be appropriate.
```

```
EOM
 case "$dlext" in
 ") dflt="$so" ;;
 *) dflt="$dlext" ;;
 esac
 rp='What is the extension of dynamically loaded modules'
 . ./myread
 dlext="$ans"
 ;;
*)
 dlext="none"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/dlext.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_copysignl: Inlibc
?MAKE: -pick add $@ %<
?S:d_copysignl:
?S: This variable conditionally defines the HAS_COPYSIGNL symbol, which
?S: indicates to the C program that the copysignl() routine is available.
?S: If aintl is also present we can emulate modfl.
?S:.
?C:HAS_COPYSIGNL:
?C: This symbol, if defined, indicates that the copysignl routine is
?C: available.  If aintl is also present we can emulate modfl.
?C:.
?H:#$d_copysignl HAS_COPYSIGNL  /**/
?H:.
?LINT:set d_copysignl
: see if copysignl exists
set copysignl d_copysignl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_copysignl.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: abortsig.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:02:19  ram
?RCS: patch36: call ./usg explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:20  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:abortsig: Myread Oldconfig Guess cat +cc ccflags rm
?MAKE: -pick add $@ %<
?S:abortsig:
?S: This variable holds the name of the signal used by the abort() call.
?S:.
?C:ABORTSIG:
?C: This symbol holds the signal number (symbol) used by the abort() call. To
?C: actually
 define the signal symbol, <signal.h> should be included.
?C:.
?H:#define ABORTSIG $abortsig  /**/
?H:.
?T:signal
: which signal is sent by abort ?
echo " "
case "$abortsig" in
")
 echo "Checking to see which signal is sent to the process by abort()..." >&4
 echo "abort" > abort.sh
 chmod +x abort.sh
?X: SIGABRT should replace SIGIOT on USG machines in a near future (1991).
 for signal in SIGIOT SIGILL SIGABRT; do
  case "$abortsig" in
  ") $cat >abort.c <<EOP
/* FIXME: Missing #include <stdlib.h>*/
#include <signal.h>
caught() { exit(0); } /* FIXME: Use _exit() or _Exit() in signal handler  */
int main()
{
```

```
#ifdef $signal
 signal($signal, caught);
#endif
 if (-1 == abort())
  exit(1);
 exit(1);
}
EOP
?X: We have to use the abort.sh script otherwise sh behaves strangely on AIX.
   if $cc $ccflags -o abort abort.c >/dev/null 2>&1; then
    (./abort.sh) >/dev/null 2>&1
    case $? in
    0) abortsig="$signal";;
    esac
   fi
   ;;
  esac
 done
 ;;
esac
case "$abortsig" in
") echo
 "(I wasn't able to compute the signal name--guessing)"
 if ./usg; then
  dflt="SIGIOT"
 else
  dflt="SIGILL"
 fi;;
*)  dflt="$abortsig"
 ;;
esac
rp="Which signal does abort() send to the process (signal name)?"
. ./myread
abortsig="$ans"
$rm -f core abort.sh abort abort.c
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/abortsig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
```

```
?MAKE:d_readv: Inlibc
?MAKE: -pick add $@ %<
?S:d_readv:
?S: This variable conditionally defines the HAS_READV symbol, which
?S: indicates to the C program that the readv() routine is available.
?S:.
?C:HAS_READV:
?C: This symbol, if defined, indicates that the readv routine is
?C: available to do gather reads.  You will also need <sys/uio.h>
?C: and there I_SYSUIO.
?C:.
?H:#$d_readv HAS_READV  /**/
?H:.
?LINT:set d_readv
: see if readv exists
set readv d_readv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_readv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: h_sysfile.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: h_sysfile.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:h_sysfile: Nothing
?MAKE: -pick add $@ %<
?S:h_sysfile:
?S: This is variable gets set in various places to tell i_sys_file that
?S: <sys/file.h> should be included.
?S:.
: Initialize h_sysfile
h_sysfile=false
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/dist/U/h_sysfile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: defeditor.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: defeditor.U,v $
?RCS: Revision 3.0.1.1  1995/01/11  15:30:16  ram
?RCS: patch45: can now use the 'vi' variable since path stripping is deferred
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:defeditor: Getfile Oldconfig Loc vi
?MAKE: -pick add $@ %<
?S:defeditor:
?S: This variable contains the eventual value of the DEFEDITOR symbol,
?S: which contains the name of the default editor.
?S:.
?C:DEFEDITOR:
?C: This
 symbol contains the full pathname of the default editor.
?C:.
?H:#define DEFEDITOR "$defeditor"  /**/
?H:.
: determine default editor
echo " "
case "$defeditor" in
")
 case "$vi" in
 */*) dflt="$vi";;
 *) dflt=/usr/ucb/vi;;
 esac
 ;;
*)  dflt="$defeditor"
 ;;
esac
fn=f/
rp="What is the default editor on your system?"
. ./getfile
defeditor="$ans"
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/defeditor.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: bitpbyte.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:02:54  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:bitpbyte: cat rm Myread +cc +ccflags
?MAKE: -pick add $@ %<
?S:bitpbyte:
?S: This variable contains the value of the BITS_PER_BYTE symbol, which
?S: indicates to the C program how many bits there are in a byte.
?S:.
?C:BITS_PER_BYTE:
?C: This symbol contains the number
 of bits in a byte, so that the C
?C: preprocessor can make decisions based on it.
?C:.
?H:#define BITS_PER_BYTE $bitpbyte  /**/
?H:.
?F:!try
: check for length of byte
echo " "
case "$bitpbyte" in
")
 echo "Checking to see how many bits there are in a byte..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
?X: Standard C requires a macro CHAR_BIT in <limits.h>
#ifdef __STDC__
#include <limits.h>
#ifndef CHAR_BIT
```

```
#define CHAR_BIT 8
#endif
#ifndef BITSPERBYTE
#define BITSPERBYTE CHAR_BIT
#endif
#else
?X: On non standard C, try with <values.h>
#include <values.h>
#ifndef BITSPERBYTE
#define BITSPERBYTE 8
#endif
#endif
int main()
{
 printf("%d\n", BITSPERBYTE);
}
EOCP
 if $cc $ccflags -o try try.c >/dev/null 2>&1 ; then
  dflt=`./try`
 else
  dflt='8'
  echo "(I can't seem to compile the test program.  Guessing...)"
 fi
 ;;
*)
 dflt="$bitpbyte"
 ;;
esac
rp="What is the length of a byte (in bits)?"
. ./myread
bitpbyte="$ans"
$rm -f try.c try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/bitpbyte.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_euc2jis.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: d_euc2jis.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_euc2jis: Inlibc
?MAKE: -pick add $@ %<
?S:d_euc2jis:
?S: This variable conditionally defines the HAS_EUC2JIS symbol, which
?S: indicates to the C program that the euc2jis() routine is available
?S: to convert EUC to JIS.
?S:.
?C:HAS_EUC2JIS:
?C: This symbol, if defined, indicates that the euc2jis routine is
?C: available to convert
 EUC to JIS.
?C:.
?H:#$d_euc2jis HAS_EUC2JIS  /**/
?H:.
?LINT:set d_euc2jis
: see if euc2jis exists
set euc2jis d_euc2jis
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_euc2jis.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_usleep.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_usleep.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:53  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_usleep: Inlibc
?MAKE: -pick add $@ %<
?S:d_usleep:
?S: This variable conditionally defines HAS_USLEEP if usleep() is
?S: available to do high granularity sleeps.
?S:.
```

```
?C:HAS_USLEEP (USLEEP):
?C: This symbol, if defined, indicates that the usleep routine is
?C: available to let the process sleep on a sub-second accuracy.
?C:.
?H:#$d_usleep
 HAS_USLEEP  /**/
?H:.
?LINT:set d_usleep
: see if usleep exists
set usleep d_usleep
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_usleep.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:perladmin: cf_email Oldconfig Myread cat
?MAKE: -pick add $@ %<
?Y:TOP
?S:perladmin:
?S: Electronic mail address of the perl5 administrator.
?S:.
: Ask e-mail of administrator
$cat <<EOM

If you or somebody else will be maintaining perl at your site, please
fill in the correct e-mail address here so that they may be contacted
if necessary. Currently, the "perlbug" program included with perl
will send mail to this address in addition to perlbug@perl.org. You may
enter "none" for no administrator.

EOM
case "$perladmin" in
") dflt="$cf_email";;
*) dflt="$perladmin";;
esac
rp='Perl administrator e-mail address'
. ./myread
perladmin="$ans"
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/U/perl/perladmin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getprior.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getprior.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:16  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getprior: Inlibc
?MAKE: -pick add $@ %<
?S:d_getprior:
?S: This variable conditionally defines HAS_GETPRIORITY if getpriority()
?S: is available to get a process's priority.
?S:.
?C:HAS_GETPRIORITY (GETPRIORITY):
?C: This symbol, if defined, indicates that the getpriority routine is
?C: available to get a process's priority.
?C:.
?H:#$d_getprior
 HAS_GETPRIORITY  /**/
?H:.
: see if getpriority exists
?LINT:set d_getprior
set getpriority d_getprior
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getprior.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_flexfnam.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
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```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_flexfnam.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_flexfnam: cat rm test Setvar
?MAKE: -pick add $@ %<
?S:d_flexfnam:
?S: This variable conditionally defines the FLEXFILENAMES symbol, which
?S: indicates that the system supports filenames longer than 14 characters.
?S:.
?C:FLEXFILENAMES:
?C: This symbol, if defined, indicates that the system supports filenames
?C: longer than 14
 characters.
?C:.
?H:#$d_flexfnam FLEXFILENAMES  /**/
?H:.
?T:first
?LINT:set d_flexfnam
: see if we can have long filenames
echo " "
?X:
?X: We have to test in both /tmp and . because of NFS (remote server may allow
?X: long filenames while the local filesystem cannot support them). If at least
?X: one of those file systems cannot support long filenames, then we assume the
?X: whole system can't.
?X:
first=123456789abcdef
$rm -f $first
if (echo hi >$first) 2>/dev/null; then
 if $test -f 123456789abcde; then
  echo 'You cannot have filenames longer than 14 characters.  Sigh.' >&4
  val="$undef"
 else
  echo 'You can have filenames longer than 14 characters.'>&4
  val="$define"
 fi
else
 $cat <<'EOM'
You can't have filenames longer than 14 chars.
You can't even think about them!
EOM
 val="$undef"
fi
set d_flexfnam
eval $setvar
```

$rm -rf 123456789abcde*

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_flexfnam.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: orderlib.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  16:18:18  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: likewise for .o replaced by $_o
?RCS: patch61: now uses the ar located by Loc.U
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:33:04  ram
?RCS: patch45: allows hint files to specify their own value for 'ranlib'
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:26:48  ram
?RCS: patch36: now performs a real small compile for accurate checks (ADO)
?RCS:
?RCS: Revision 3.0.1.1
  1994/08/29  16:31:17  ram
?RCS: patch32: use cc variable instead of hardwired 'cc' in 1st compile
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:orderlib ranlib: Loc ar cat test rm +cc +ccflags +ldflags +libs _a _o
?MAKE: -pick add $@ %<
?S:orderlib:
?S: This variable is "true" if the components of libraries must be ordered
?S: (with `lorder $* | tsort`) before placing them in an archive.  Set to
?S: "false" if ranlib or ar can generate random libraries.
?S:.
?S:ranlib:
?S: This variable is set to the pathname of the ranlib program, if it is
?S: needed to generate random libraries.  Set to ":" if ar can generate
?S: random libraries or if random libraries are not supported
?S:.
```

```
?F:!foobar
: see if ar generates random libraries by itself
echo " "
echo "Checking how to generate random libraries on your machine..." >&4
?X: Some systems (like MIPS) complain when running ar... Others like Ultrix
?X: need an explicit 'ar ts'
 to add the table of contents.
?X: Still others like Linux run ar ts successfully, but still need ranlib.
?X: This set of tests seems the minimum necessary to check out Linux.
?X: We need to explicitly put the entries in out-of-order so that Sun's ld
?X: will fail.  (Otherwise it complains, but gives an exit status of 0.)
echo 'int bar1() { return bar2(); }' > bar1.c
echo 'int bar2() { return 2; }' > bar2.c
$cat > foo.c <<'EOP'
int main() { printf("%d\n", bar1()); exit(0); }
EOP
$cc $ccflags -c bar1.c >/dev/null 2>&1
$cc $ccflags -c bar2.c >/dev/null 2>&1
$cc $ccflags -c foo.c >/dev/null 2>&1
$ar rc bar$_a bar2$_o bar1$_o >/dev/null 2>&1
if $cc $ccflags $ldflags -o foobar foo$_o bar$_a $libs > /dev/null 2>&1 &&
 ./foobar >/dev/null 2>&1; then
 echo "ar appears to generate random libraries itself."
 orderlib=false
 ranlib=":"
elif $ar ts bar$_a >/dev/null 2>&1 &&
 $cc $ccflags $ldflags -o foobar foo$_o bar$_a $libs > /dev/null 2>&1 &&
 ./foobar >/dev/null 2>&1; then
  echo "a table of contents
 needs to be added with 'ar ts'."
  orderlib=false
  ranlib="$ar ts"
else
?X: Allow hints to specify their own ranlib "script". For instance, on
?X: some NeXT machines, the timestamp put by ranlib is not correct, and this
?X: may raise tedious recompiles for nothing. Therefore, NeXT may add the
?X: ranlib='sleep 5; /bin/ranlib' line in their hints to "fix" that.
?X: (reported by Andreas Koenig <k@franz.ww.tu-berlin.de>)
 case "$ranlib" in
 :) ranlib=";;
 ")
  ranlib=`./loc ranlib X /usr/bin /bin /usr/local/bin`
  $test -f $ranlib || ranlib="
  ;;
 esac
 if $test -n "$ranlib"; then
  echo "your system has '$ranlib'; we'll use that."
  orderlib=false
```

```
 else
  echo "your system doesn't seem to support random libraries"
  echo "so we'll use lorder and tsort to order the libraries."
  orderlib=true
  ranlib=":"
 fi
fi
$rm -f foo* bar*
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/orderlib.U
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```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_setproctitle: Inlibc
?MAKE: -pick add $@ %<
?S:d_setproctitle:
?S: This variable conditionally defines the HAS_SETPROCTITLE symbol,
?S: which indicates to the C program that the setproctitle() routine
?S: is available.
?S:.
?C:HAS_SETPROCTITLE:
?C: This symbol, if defined, indicates that the setproctitle routine is
?C: available to set process title.
?C:.
?H:#$d_setproctitle HAS_SETPROCTITLE  /**/
?H:.
?LINT:set d_setproctitle
: see if setproctitle exists
set setproctitle d_setproctitle
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_setproctitle.U
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```
?RCS: $Id: d_access.U,v 3.0 1993/08/18 12:05:42 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
```

```
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_access.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_access: test +cc cat +cppflags h_fcntl h_sysfile i_stdlib rm Inlibc Findhdr
?MAKE: -pick add $@ %<
?S:d_access:
?S: This variable conditionally defines HAS_ACCESS if the access() system
?S: call is available to check for access permissions using real IDs.
?S:.
?C:HAS_ACCESS:
?C: This manifest constant lets the C program know that the access()
?C: system
 call is available to check for accessibility using real UID/GID.
?C: (always present on UNIX.)
?C:.
?H:#$d_access HAS_ACCESS  /**/
?H:.
?W:%<:R_OK W_OK X_OK F_OK
?LINT:set d_access
?LINT:change h_fcntl h_sysfile
: access call always available on UNIX
set access d_access
eval $inlibc

: locate the flags for 'access()'
case "$d_access" in
"$define")
 echo " "
 $cat >access.c <<EOCP
#include <sys/types.h>
#ifdef I_FCNTL
#include <fcntl.h>
#endif
#ifdef I_SYS_FILE
#include <sys/file.h>
#endif
#ifdef I_UNISTD
#include <unistd.h>
#endif
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
```

```
#include <stdlib.h>
#endif
int main() {
 exit(R_OK);
}
EOCP
 : check sys/file.h first, no particular reason here
 if $test `./findhdr sys/file.h` && \
  $cc -o access $cppflags -DI_SYS_FILE access.c >/dev/null 2>&1 ; then
  h_sysfile=true;
  echo "<sys/file.h> defines the *_OK access constants." >&4
 elif $test `./findhdr fcntl.h` && \
  $cc -o access $cppflags -DI_FCNTL access.c >/dev/null 2>&1 ; then
  h_fcntl=true;
  echo
 "<fcntl.h> defines the *_OK access constants." >&4
@if I_UNISTD
 elif $test `./findhdr unistd.h` && \
  $cc -o access $cppflags -DI_UNISTD access.c >/dev/null 2>&1 ; then
  echo "<unistd.h> defines the *_OK access constants." >&4
@end
 else
  echo "I can't find the four *_OK access constants--I'll use mine." >&4
 fi
 ;;
esac
$rm -f access*
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_access.U
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_pwd.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:10:57  ram
?RCS: patch56: use setvar so hint file values can override our guesses (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:03:27  ram
```

```
?RCS: patch23: had forgotten cppminus in cppstdin test (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:25  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit checks whether there is a pwd system or not
?X:
?MAKE:i_pwd d_pwquota d_pwage d_pwchange d_pwclass d_pwexpire d_pwcomment:
 \
 contains rm cppstdin cppflags cppminus Inhdr Findhdr Setvar
?MAKE: -pick add $@ %<
?S:i_pwd:
?S: This variable conditionally defines I_PWD, which indicates
?S: to the C program that it should include <pwd.h>.
?S:.
?S:d_pwquota:
?S: This varaible conditionally defines PWQUOTA, which indicates
?S: that struct passwd contains pw_quota.
?S:.
?S:d_pwage:
?S: This varaible conditionally defines PWAGE, which indicates
?S: that struct passwd contains pw_age.
?S:.
?S:d_pwchange:
?S: This varaible conditionally defines PWCHANGE, which indicates
?S: that struct passwd contains pw_change.
?S:.
?S:d_pwclass:
?S: This varaible conditionally defines PWCLASS, which indicates
?S: that struct passwd contains pw_class.
?S:.
?S:d_pwexpire:
?S: This varaible conditionally defines PWEXPIRE, which indicates
?S: that struct passwd contains pw_expire.
?S:.
?S:d_pwcomment:
?S: This varaible conditionally defines PWCOMMENT, which indicates
?S: that struct passwd contains pw_comment.
?S:.
?C:I_PWD:
?C: This symbol,
 if defined, indicates to the C program that it should
?C: include <pwd.h>.
?C:.
?C:PWQUOTA:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_quota.
```

```
?C:.
?C:PWAGE:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_age.
?C:.
?C:PWCHANGE:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_change.
?C:.
?C:PWCLASS:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_class.
?C:.
?C:PWEXPIRE:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_expire.
?C:.
?C:PWCOMMENT:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_comment.
?C:.
?H:#$i_pwd I_PWD  /**/
?H:#$d_pwquota PWQUOTA /**/
?H:#$d_pwage PWAGE /**/
?H:#$d_pwchange PWCHANGE /**/
?H:#$d_pwclass PWCLASS /**/
?H:#$d_pwexpire PWEXPIRE /**/
?H:#$d_pwcomment PWCOMMENT /**/
?H:.
?LINT: set i_pwd d_pwquota
 d_pwage d_pwchange d_pwclass d_pwexpire d_pwcomment
?T:xxx
: see if this is a pwd.h system
set pwd.h i_pwd
eval $inhdr

case "$i_pwd" in
$define)
 xxx=`./findhdr pwd.h`
 $cppstdin $cppflags $cppminus < $xxx >$$.h

 if $contains 'pw_quota' $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_pwquota
 eval $setvar
```

```
if $contains 'pw_age' $$.h >/dev/null 2>&1; then
 val="$define"
else
 val="$undef"
fi
set d_pwage
eval $setvar

if $contains 'pw_change' $$.h >/dev/null 2>&1; then
 val="$define"
else
 val="$undef"
fi
set d_pwchange
eval $setvar

if $contains 'pw_class' $$.h >/dev/null 2>&1; then
 val="$define"
else
 val="$undef"
fi
set d_pwclass
eval $setvar

if $contains 'pw_expire' $$.h >/dev/null 2>&1; then
 val="$define"
else
 val="$undef"
fi
set d_pwexpire
eval $setvar

if $contains 'pw_comment' $$.h >/dev/null 2>&1; then
 val="$define"
else
 val="$undef"
fi
set d_pwcomment
eval $setvar

$rm -f $$.h
;;
*)
val="$undef";
set
d_pwquota; eval $setvar
set d_pwage; eval $setvar
```

```
 set d_pwchange; eval $setvar
 set d_pwclass; eval $setvar
 set d_pwexpire; eval $setvar
 set d_pwcomment; eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_pwd.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_scannl.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:41:27  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  13:59:12  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:00  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Does the scanf routine read "\n" correctly ? This is was not
?X: the case on AIX...
?X:
?MAKE:d_scannl: cat +cc +ccflags rm Setvar
?MAKE: -pick add $@ %<
?S:d_scannl:
?S: This
 variable conditionally defines SCAN_NL, which indicates
?S: wether the C library routines scanf() and friends can deal with
?S: a '\n' in the input correctly. They do most of the time.
?S:.
?C:SCAN_NL:
?C: This symbol is defined if the C library routines scanf() and friends
?C: can deal with a '\n' in the input correctly, so that you can say
?C: scanf("%d\n"); instead of scanf("%d"); getc(c); to handle the '\n'.
```

```
?C:.
?H:#$d_scannl SCAN_NL  /* scanf("%d\n") works */
?H:.
?F:!try
?LINT:set d_scannl
: does scanf handle "\n" correctly ?
echo " "
val="$define"
?X: I really want to say "\n" instead of '\n', because I am referring
?X: to the string given as argument to scanf().
echo 'Let""""s see if scanf() handles "\\n" correctly...' >&4
$cat >try.c <<'EOCP'
int main()
{
 int i = 0, j = 0;
 scanf("%d\n%d", &i, &j);
 if (j != 3)
  exit(1);
 exit(0);
}
EOCP
if $cc $ccflags -o try try.c >/dev/null 2>&1; then
 if ./try <<'EOD'
2
3
EOD
 then
  echo "Yes, it does."
 else
  echo "No, it doesn't."
  val="$undef"
 fi
else
 echo
 "(I can't seem to compile the test program. Assuming it does.)"
fi
set d_scannl
eval $setvar
$rm -f try.* try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_scannl.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: lseektype.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:30:10  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lseektype: Myread Typedef
?MAKE: -pick add $@ %<
?S:lseektype:
?S: This variable defines lseektype to be something like off_t, long,
?S: or whatever type is used to declare lseek offset's type in the
?S: kernel (which also appears to be lseek's return type).
?S:.
?C:Off_t
 (LSEEKTYPE):
?C: This symbol holds the type used to declare offsets in the kernel.
?C: It can be int, long, off_t, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Off_t $lseektype  /* <offset> type */
?H:.
: see what type lseek is declared as in the kernel
set off_t lseektype long stdio.h sys/types.h
eval $typedef
echo " "
dflt="$lseektype"
rp="What type is lseek's offset on this system declared as?"
. ./myread
lseektype="$ans"
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/lseektype.U
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```
?RCS: $Id: libyacc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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```

```
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libyacc.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  16:09:19  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.3  1994/05/13  15:27:12  ram
?RCS: patch27: added byacc case (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:09:01  ram
?RCS: patch23: now uses full library path instead of -l notation
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:13:49  ram
?RCS: patch16: un-obsoleted this unit for smooth yacc compilations
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:09:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libyacc: Loc yacc libpth _a
?MAKE: -pick add $@ %<
?S:libyacc:
?S: This variable contains the argument to pass to the loader in order
?S: to get the yacc library routines.  If there is no yacc or yacc
?S: library, it is null.
?S:.
?T:xxx
: see if we should include -ly
echo " "
case "$yacc" in
*byacc*)
 echo "You are using byacc, so I won't look for a yacc library." >&4
 libyacc=''
 ;;
*yacc)
 xxx=`./loc liby$_a x $libpth`
 case "$xxx" in
 x)
  echo "No yacc library found." >&4
  libyacc=''
  ;;
 *)
  echo "yacc library found in $xxx." >&4
  libyacc="$xxx"
  ;;
```

```
 esac
 ;;
*bison*)
 echo "You are using bison, so I won't look for a yacc library." >&4
 libyacc=''
 ;;
*)
echo "You don't seem to have yacc, so I won't look for the yacc library." >&4
 libyacc=''
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/libyacc.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_asinh: Inlibc
?MAKE: -pick add $@ %<
?S:d_asinh:
?S: This variable conditionally defines the HAS_ASINH symbol, which
?S: indicates to the C program that the asinh() routine is available.
?S:.
?C:HAS_ASINH:
?C: This symbol, if defined, indicates that the asinh routine is
?C: available to do the inverse hyperbolic sine function.
?C:.
?H:#$d_asinh HAS_ASINH  /**/
?H:.
?LINT:set d_asinh
: see if asinh exists
set asinh d_asinh
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_asinh.U
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_NOFILE.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:08:38  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:nofile d_gettblsz tablesize: Myread Guess cat +cc +ccflags +libs \
 test rm Csym
?MAKE: -pick add $@ %<
?S:nofile:
?S: This variable contains the number of file descriptors available to the
?S: process.
?S:.
?S:d_gettblsz:
?S: This variable conditionally handles remapping
 of the getdtablesize()
?S: subroutine to ulimit(4,0), or the NOFILE manifest constant.
?S:.
?S:tablesize:
?S: This variable contains either the 'NOFILE' constant or 'ulimit(4, 0L)'
?S: and is used as the remapped value for the getdtablesize() macro.
?S:.
?C:getdtablesize:
?C: This catches use of the getdtablesize() subroutine, and remaps it
?C: to either ulimit(4,0) or NOFILE, if getdtablesize() isn't available.
?C:.
?C:VAL_NOFILE:
?C: This symbol contains the number of file descriptors available to the
?C: process, as determined at configuration time. Unless a static constant
?C: is needed, you should rely on getdtablesize() to obtain that number.
?C:.
?H:#$d_gettblsz getdtablesize() $tablesize /**/
?H:#define VAL_NOFILE $nofile /* Number of file descriptors */
?H:.
?F:!nofile
?T:d_ulimit4 val
: see if getdtablesize exists
echo " "
?X: Revert logical value (d_gettblsz is undef iff getdtablesize is present)
case "$d_gettblsz" in
$define) d_gettblsz="$undef";;
$undef) d_gettblsz="$define";;
esac
```

```
if
 set getdtablesize val -f d_gettblsz; eval $csym; $val; then
 echo 'getdtablesize() found.' >&4
 d_gettblsz="$undef"
 tablesize=''
@if VAL_NOFILE || nofile
 $cat >nofile.c <<'EOCP'
#include <stdio.h>
int main()
{
 printf("%d\n", getdtablesize());
}
EOCP
 nofile=''
 if $cc $ccflags -o nofile nofile.c $libs >/dev/null 2>&1; then
  nofile=`./nofile 2>/dev/null`
 fi
 if $test "$nofile"; then
  echo "(You have $nofile file descriptors available per process.)"
 else
  nofile='20'
  if ./bsd; then
   nofile='64'
  fi
 echo "(Hmm... Let's say you have $nofile file descriptors available.)"
 fi
@end
else
 echo 'getdtablesize() NOT found...' >&4
 if set ulimit val -f; eval $csym; $val; then
  echo 'Maybe ulimit(4,0) will work...'
  $cat >nofile.c <<'EOCP'
#include <stdio.h>
#ifdef GETPARAM_H
#include <sys/param.h>
#endif
int main()
{
 printf("%d %d\n",
#ifdef NOFILE
  NOFILE,
#else
  0,
#endif
  ulimit(4,0));
  exit(0);
}
EOCP
```

```
 if $cc $ccflags -DGETPARAM_H -o nofile nofile.c $libs
>/dev/null 2>&1 \
  || $cc $ccflags -o nofile nofile.c $libs >/dev/null 2>&1 ; then
  set `./nofile`
  d_gettblsz=$1
  d_ulimit4=$2
  if $test "$d_ulimit4" -lt 0; then
   echo "Your ulimit() call doesn't tell me what I want to know."
   echo "We'll just use NOFILE in this case."
   nofile=$d_gettblsz
   d_gettblsz="$define"
   tablesize='NOFILE'
  else
   if $test "$d_gettblsz" -gt 0; then
   echo "Your system defines NOFILE to be $d_gettblsz, and" >&4
   else
   echo "I had trouble getting NOFILE from your system, but" >&4
   fi
echo "ulimit returns $d_ulimit4 as the number of available file descriptors." >&4
   dflt='y';
   echo " "
 rp='Should I use ulimit to get the number of available file descriptors?'
   . ./myread
   case "$ans" in
   y*)
    nofile=$d_ulimit4
    d_gettblsz="$define"
    tablesize='ulimit(4, 0L)'
    echo "Using ulimit(4,0)."
    ;;
   *)
    nofile=$d_gettblsz
    d_gettblsz="$define"
    tablesize='NOFILE'
    echo "Using NOFILE."
    ;;
   esac
  fi
 else
  echo
"Strange, I couldn't get my test program to compile."
  echo "We'll just use NOFILE in this case."
  d_gettblsz="$define"
  tablesize='NOFILE'
  nofile=''
 fi
else
 echo 'Using NOFILE instead.'
```

```
  d_gettblsz="$define"
  tablesize='NOFILE'
  nofile=''
 fi
fi
@if VAL_NOFILE || nofile
case "$nofile" in
'')
 $cat >nofile.c <<'EOCP'
#include <stdio.h>
#ifdef GETPARAM_H
#include <sys/param.h>
#endif
int main()
{
 printf("%d\n",
#ifdef NOFILE
  NOFILE,
#else
  0,
#endif
  );
  exit(0);
}
EOCP
 if $cc $ccflags -DGETPARAM_H -o nofile nofile.c $libs >/dev/null 2>&1 \
  || $cc $ccflags -o nofile nofile.c $libs >/dev/null 2>&1 ; then
  nofile=`./nofile 2>/dev/null`
 fi
 if $test "$nofile"; then
  echo "(You have $nofile file descriptors available per process.)"
 else
  nofile='20'
  if ./bsd; then
   nofile='64'
  fi
 echo "(Hmm... Let's say you have $nofile file descriptors available.)"
 fi
 ;;
esac
@end
$rm -f nofile*
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_NOFILE.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2004 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strlcat: Inlibc Hasproto d_gnulibc
?MAKE: -pick add $@ %<
?S:d_strlcat:
?S: This variable conditionally defines the HAS_STRLCAT symbol, which
?S: indicates to the C program that the strlcat () routine is available.
?S:.
?C:HAS_STRLCAT:
?C: This symbol, if defined, indicates that the strlcat () routine is
?C: available to do string concatenation.
?C:.
?H:#$d_strlcat HAS_STRLCAT  /**/
?H:.
?T:d_strlcat_proto xx1 xx2 xx3 xx4
?LINT:set d_strlcat
: see if strlcat exists
: We need both a prototype in string.h and the symbol in libc.
echo " "
d_strlcat_proto=''
xx1='#$d_gnulibc HAS_GNULIBC'
xx2='#if defined(HAS_GNULIBC) && !defined(_GNU_SOURCE)'
xx3='#   define _GNU_SOURCE'
xx4='#endif'
set d_strlcat_proto
 strlcat literal "$xx1" literal "$xx2" literal "$xx3" literal "$xx4" define string.h
eval $hasproto
case "$d_strlcat_proto" in
   define) # see if strlcat exists
 set strlcat d_strlcat
 eval $inlibc
 ;;
   *)  val=$undef
 set d_strlcat
 eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strlcat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: warnflags.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Orginal Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: warnflags.U,v $
?RCS: Revision 3.0  1993/08/18  12:10:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:warnflags: cat cc contains Myread Guess Oldconfig Findhdr
?MAKE: -pick add $@ %<
?S:warnflags:
?S: This variable contains any additional C compiler flags to generate
?S: warnings from the compiler. It is up to the Makefile to use this.
?S:.
: offer additional
 warning flags for compilation
$cat <<EOH

You may wish to compile with extra compiler warnings enabled.
Note that doing so enhances your chance of receiving your free set of steak
knives, particularly if you find any bugs and report them.
If you don't want extra warnings, answer "none".

EOH
case "$warnflags" in
") case "$cc" in
 *gcc*)
  dflt="-Wall -Wno-comment"
  if $contains 'fprintf' `./findhdr stdio.h` >/dev/null 2>&1; then
   :
  else
   dflt="$dflt -Wno-implicit"
  fi
  ;;
 *) dflt="none";;
 esac
 ;;
' ') dflt="none";;
*) dflt="$warnflags";;
esac
```

```
rp="Any $cc flags to enable warnings?"
. ./myread
case "$ans" in
none) warnflags=' ';;
*) warnflags="$ans";;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/warnflags.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_flock.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_flock.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_flock: Inlibc
?MAKE: -pick add $@ %<
?S:d_flock:
?S: This variable conditionally defines HAS_FLOCK if flock() is
?S: available to do file locking.
?S:.
?C:HAS_FLOCK (FLOCK):
?C: This symbol, if defined, indicates that the flock routine is
?C: available to do file locking.
?C:.
?H:#$d_flock HAS_FLOCK  /**/
?H:.
?LINT:set d_flock
: see
 if flock exists
set flock d_flock
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_flock.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: otherlibdirs.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999-2000, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: otherlibdirs.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?RCS: Revision 1.1  1999/07/08 18:20:26  doughera
?RCS: Initial revision
?RCS:
?RCS:
?MAKE:otherlibdirs d_perl_otherlibdirs: Myread cat sitelib sitearch \
 vendorarch vendorlib Setvar
?MAKE: -pick add $@ %<
?Y:TOP
?S:otherlibdirs:
?S: This variable contains a colon-separated set of paths for the perl
?S: binary to search for additional library files
 or modules.
?S: These directories will be tacked to the end of @INC.
?S: Perl will automatically search below each path for version-
?S: and architecture-specific directories.  See inc_version_list
?S: for more details.
?S: A value of ' ' means 'none' and is used to preserve this value
?S: for the next run through Configure.
?S:.
?S:d_perl_otherlibdirs:
?S: This variable conditionally defines PERL_OTHERLIBDIRS, which
?S: contains a colon-separated set of paths for the perl binary to
?S: include in @INC.  See also otherlibdirs.
?S:.
?C:PERL_OTHERLIBDIRS:
?C: This variable contains a colon-separated set of paths for the perl
?C: binary to search for additional library files or modules.
?C: These directories will be tacked to the end of @INC.
?C: Perl will automatically search below each path for version-
?C: and architecture-specific directories.  See PERL_INC_VERSION_LIST
?C: for more details.
?C:.
```

```
?H:#$d_perl_otherlibdirs PERL_OTHERLIBDIRS "$otherlibdirs"  /**/
?H:.
?LINT: set d_perl_otherlibdirs
:
 Final catch-all directories to search
$cat <<EOM

Lastly, you can have perl look in other directories for extensions and
modules in addition to those already specified.
These directories will be searched after
 $sitearch
 $sitelib
EOM
test X"$vendorlib" != "X" && echo ' ' $vendorlib
test X"$vendorarch" != "X" && echo ' ' $vendorarch
echo ' '
case "$otherlibdirs" in
"|' ') dflt='none' ;;
*) dflt="$otherlibdirs" ;;
esac
$cat <<EOM
Enter a colon-separated set of extra paths to include in perl's @INC
search path, or enter 'none' for no extra paths.

EOM

rp='Colon-separated list of additional directories for perl to search?'
. ./myread
case "$ans" in
' '|''|none) otherlibdirs=' ' ;;
*) otherlibdirs="$ans" ;;
esac
case "$otherlibdirs" in
' ') val=$undef ;;
*) val=$define ;;
esac
set d_perl_otherlibdirs
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/otherlibdirs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: archlib.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  15:23:38  ram
?RCS: patch61: skip existence checks for archlib
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:15:18  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/02/15  14:14:14  ram
?RCS: patch51: architecture name is now computed by a separate unit
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:32:22  ram
?RCS:
 patch49: archname is now systematically recomputed
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:02:36  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_archlib archlib archlibexp installarchlib: archname afs spackage \
 cat Getfile Loc Oldconfig prefixexp privlib test Prefixit Prefixup
?MAKE: -pick add $@ %<
?Y:TOP
?S:d_archlib:
?S: This variable conditionally defines ARCHLIB to hold the pathname
?S: of architecture-dependent library files for $package.  If
?S: $archlib is the same as $privlib, then this is set to undef.
?S:.
?S:archlib:
?S: This variable holds the name of the directory in which the user wants
?S: to put architecture-dependent public library files for $package.
?S: It is most often a local directory such as /usr/local/lib.
?S: Programs using this variable must be prepared to deal
?S: with filename expansion.
?S:.
?S:archlibexp:
?S: This variable is the same as the archlib variable, but is
?S: filename
 expanded at configuration time, for convenient use.
?S:.
?S:installarchlib:
```

```
?S: This variable is really the same as archlibexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?C:ARCHLIB:
?C: This variable, if defined, holds the name of the directory in
?C: which the user wants to put architecture-dependent public
?C: library files for $package.  It is most often a local directory
?C: such as /usr/local/lib.  Programs using this variable must be
?C: prepared to deal with filename expansion.  If ARCHLIB is the
?C: same as PRIVLIB, it is not defined, since presumably the
?C: program already searches PRIVLIB.
?C:.
?C:ARCHLIB_EXP:
?C: This symbol contains the ~name expanded version of ARCHLIB, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#$d_archlib ARCHLIB "$archlib"  /**/
?H:#$d_archlib ARCHLIB_EXP "$archlibexp"  /**/
?H:.
: determine where public architecture
 dependent libraries go
set archlib archlib
eval $prefixit
case "$archlib" in
")
 case "$privlib" in
 ")
  dflt=`./loc . "." $prefixexp/lib /usr/local/lib /usr/lib /lib`
  set dflt
  eval $prefixup
  ;;
 *)  dflt="$privlib/$archname";;
 esac
 ;;
*) dflt="$archlib";;
esac
cat <<EOM

$spackage contains architecture-dependent library files.  If you are
sharing libraries in a heterogeneous environment, you might store
these files in a separate location.  Otherwise, you can just include
them with the rest of the public library files.

EOM
fn=d+~
rp='Where do you want to put the public architecture-dependent libraries?'
. ./getfile
```

```
archlib="$ans"
archlibexp="$ansexp"

if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
private files reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installarchlib" in
 ") dflt=`echo $archlibexp | sed 's#^/afs/#/afs/.#'`;;
 *)
 dflt="$installarchlib";;
 esac
 fn=de~
 rp='Where will architecture-dependent library files be installed?'
 . ./getfile
 installarchlib="$ans"
else
 installarchlib="$archlibexp"
fi
if $test X"$archlib" = X"$privlib"; then
 d_archlib="$undef"
else
 d_archlib="$define"
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/archlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_whoami.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_whoami.U,v $
?RCS: Revision 3.0.1.1  1993/08/25  14:02:21  ram
?RCS: patch6: added default for i_whoami
?RCS:
```

```
?RCS: Revision 3.0  1993/08/18  12:08:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_whoami: Inhdr
?MAKE: -pick add $@ %<
?S:i_whoami (d_whoami):
?S: This variable conditionally defines the I_WHOAMI symbol, which
?S: indicates to the C program that it should include <whoami.h>.
?S:.
?C:I_WHOAMI (WHOAMI):
?C: This symbol,
 if defined, indicates that the program may include
?C: <whoami.h>.
?C:.
?H:#$i_whoami I_WHOAMI /**/
?H:.
?D:i_whoami=''
?LINT:set i_whoami
: see if there is a whoami.h file
set whoami.h i_whoami
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_whoami.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpagsz.U,v 3.0.1.1 1994/10/29 16:13:10 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_getpagsz.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:13:10  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getpagsz: Compile Oldconfig Myread Inlibc Findhdr
?MAKE: -pick add $@ %<
?S:d_getpagsz:
?S: This variable conditionally defines HAS_GETPAGESIZE if getpagesize()
```

```
?S: is available to get the system page size.
?S:.
?C:HAS_GETPAGESIZE
 (GETPAGESIZE):
?C: This symbol, if defined, indicates that the getpagesize system call
?C: is available to get system page size, which is the granularity of
?C: many memory management calls.
?C:.
?H:#$d_getpagsz HAS_GETPAGESIZE  /**/
?H:.
?LINT:set d_getpagsz
: see if getpagesize exists
set getpagesize d_getpagsz
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_getpagsz.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: registers.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: registers.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:19:41  ram
?RCS: patch61: removed empty ?LINT lines
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:28:33  ram
?RCS: patch36: call ./Cppsym explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:41  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:registers reg1 reg2 reg3 reg4 reg5 reg6 reg7 reg8 reg9 reg10 reg11 \
 reg12 reg13 reg14 reg15 reg16: awk rm Cppsym
 Myread Oldconfig
?MAKE: -pick add $@ %<
?S:registers:
?S: This variable contains the number of register declarations paid
?S: attention to by the C compiler.
?S:.
```

```
?S:reg1:
?S: This variable, along with reg2, reg3, etc. contains the eventual
?S: value for the symbols register1, register2, register3, etc.  It has
?S: either the value "register" or is null.
?S:.
?C:register1:
?C: This symbol, along with register2, register3, etc. is either the word
?C: "register" or null, depending on whether the C compiler pays attention
?C: to this many register declarations.  The intent is that you don't have
?C: to order your register declarations in the order of importance, so you
?C: can freely declare register variables in sub-blocks of code and as
?C: function parameters.  Do not use register<n> more than once per routine.
?C:.
?LINT:describe reg2 reg3 reg4 reg5 reg6 reg7 reg8 reg9 reg10 reg11
?LINT:describe reg12 reg13 reg14 reg15 reg16
?LINT:known register2 register3 register4 register5 register6
 register7
?LINT:known register8 register9 register10 register11 register12 register13
?LINT:known register14 register15 register16
?H:#define register1 $reg1  /**/
?H:#define register2 $reg2  /**/
?H:#define register3 $reg3  /**/
?H:#define register4 $reg4  /**/
?H:#define register5 $reg5  /**/
?H:#define register6 $reg6  /**/
?H:#define register7 $reg7  /**/
?H:#define register8 $reg8  /**/
?H:#define register9 $reg9  /**/
?H:#define register10 $reg10 /**/
?H:#define register11 $reg11 /**/
?H:#define register12 $reg12 /**/
?H:#define register13 $reg13 /**/
?H:#define register14 $reg14 /**/
?H:#define register15 $reg15 /**/
?H:#define register16 $reg16 /**/
?H:.
?F:!.foo
: see how many register declarations we want to use
case "$registers" in
")
 if ./Cppsym vax; then
  dflt=6
 elif ./Cppsym sun mc68000 mips; then
  dflt=10
 elif ./Cppsym pyr; then
  dflt=14
 elif ./Cppsym ns32000 ns16000; then
  dflt=5
```

```
 elif ./Cppsym $smallmach; then
  dflt=3
 else
  : if you have any other numbers
 for me, please send them in
  dflt=6
 fi;;
*) dflt=$registers ;;
esac
?LINT:set reg2 reg3 reg4 reg5 reg6 reg7 reg8 reg9 reg10 reg11
?LINT:set reg12 reg13 reg14 reg15 reg16
cat <<EOM

Different C compilers on different machines pay attention to different numbers
of register declarations.  About how many register declarations in each routine
does your C compiler pay attention to?  (OK to guess)

EOM
rp="Maximum register declarations?"
. ./myread
registers=$ans
reg1="
$awk "BEGIN { for (i=1; i<=16; i++) printf \"reg%d="\n\", i}" \
 </dev/null >.foo
. ./.foo
$awk "BEGIN { for (i=1; i<=$registers; i++) printf \"reg%d=register\n\", i}" \
 </dev/null >.foo
. ./.foo
$rm -f .foo
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/registers.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_memset.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memset.U,v $
?RCS: Revision 3.0.1.1  1993/09/13  16:03:11  ram
?RCS: patch10: removed text recommending bzero over memset (WAD)
```

```
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:36  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_memset: Inlibc
?MAKE: -pick add $@ %<
?S:d_memset:
?S: This variable conditionally defines the HAS_MEMSET symbol, which
?S: indicates to the C program that the memset() routine is available
?S: to set blocks of memory.
?S:.
?C:HAS_MEMSET
 (MEMSET):
?C: This symbol, if defined, indicates that the memset routine is available
?C: to set blocks of memory.
?C:.
?H:#$d_memset HAS_MEMSET /**/
?H:.
?LINT:set d_memset
: see if memset exists
set memset d_memset
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_memset.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_niin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_niin.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit looks wether <netinet/in.h> is available or not
?X:
?MAKE:i_niin i_sysin: Inhdr
?MAKE: -pick add $@ %<
?S:i_niin:
```

```
?S: This variable conditionally defines I_NETINET_IN, which indicates
?S: to the C program that it should include <netinet/in.h>. Otherwise,
?S: you may try <sys/in.h>.
?S:.
?S:i_sysin:
?S: This variable conditionally
 defines I_SYS_IN, which indicates
?S: to the C program that it should include <sys/in.h> instead of
?S: <netinet/in.h>.
?S:.
?C:I_NETINET_IN:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <netinet/in.h>. Otherwise, you may try <sys/in.h>.
?C:.
?C:I_SYS_IN (I_SYSIN):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/in.h> instead of <netinet/in.h>.
?C:.
?H:#$i_niin I_NETINET_IN /**/
?H:#$i_sysin I_SYS_IN  /**/
?H:.
?LINT:set i_niin i_sysin
: see if this is a netinet/in.h or sys/in.h system
set netinet/in.h i_niin sys/in.h i_sysin
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_niin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: installstyle.U,v 1.2 1999/07/13 14:56:06 doughera Exp $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: installstyle.U,v $
?RCS: Revision 1.2  1999/07/13 14:56:06  doughera
?RCS: Fix dependencies.  Add more comments.
?RCS:
?RCS: Revision 1.1  1999/07/12 17:30:41  doughera
?RCS: Initial revision
?RCS:
```

```
?RCS:
?MAKE:installstyle: prefix Myread
?MAKE: -pick add $@ %<
?X: Myread dependence is for dflt.
?S:installstyle:
?S: This variable describes the "style" of the perl installation.
?S: This is intended to be useful for tools that need to
?S: manipulate entire perl
 distributions.  Perl itself doesn't use
?S: this to find its libraries -- the library directories are
?S: stored directly in Config.pm.  Currently, there are only two
?S: styles:  "lib" and "lib/perl5".  The default library locations
?S: (e.g. privlib, sitelib) are either $prefix/lib or
?S: $prefix/lib/perl5.  The former is useful if $prefix is a
?S: directory dedicated to perl (e.g. /opt/perl), while the latter
?S: is useful if $prefix is shared by many packages, e.g. if
?S: $prefix=/usr/local.
?S:
?S: Unfortunately, while this "style" variable is used to set
?S: defaults for all three directory hierarchies (core, vendor, and
?S: site), there is no guarantee that the same style is actually
?S: appropriate for all those directories.  For example, $prefix
?S: might be /opt/perl, but $siteprefix might be /usr/local.
?S: (Perhaps, in retrospect, the "lib" style should never have been
?S: supported, but it did seem like a nice idea at the time.)
?S:
?S: The situation is even less clear for
 tools such as MakeMaker
?S: that can be used to install additional modules into
?S: non-standard places.  For example, if a user intends to install
?S: a module into a private directory (perhaps by setting PREFIX on
?S: the Makefile.PL command line), then there is no reason to
?S: assume that the Configure-time $installstyle setting will be
?S: relevant for that PREFIX.
?S:
?S: This may later be extended to include other information, so
?S: be careful with pattern-matching on the results.
?S:
?S: For compatibility with perl5.005 and earlier, the default
?S: setting is based on whether or not $prefix contains the string
?S: "perl".
?S:.
: determine installation style
: For now, try to deduce it from prefix unless it is already set.
: Reproduce behavior of 5.005 and earlier, maybe drop that in 5.7.
case "$installstyle" in
") case "$prefix" in
  *perl*) dflt='lib';;
```

```
  *) dflt='lib/perl5' ;;
 esac
 ;;
*) dflt="$installstyle" ;;
esac
: Probably not worth prompting for this since we prompt
 for all
: the directories individually, and the prompt would be too long and
: confusing anyway.
installstyle=$dflt
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/installstyle.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_times.U,v 3.0.1.2 1995/07/25 14:07:50 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_times.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:07:50  ram
?RCS: patch56: typo fix, sytem -> system
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:14:00  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: What is the type returned by times() ?
?X:
?X: Force inclusion of <sys/types.h>
?X:INC: i_systypes
?MAKE:d_times clocktype:
 Csym Myread Typedef i_systimes
?MAKE: -pick add $@ %<
?S:d_times:
?S: This variable conditionally defines the HAS_TIMES symbol, which indicates
?S: that the times() routine exists.  The times() routine is normally
?S: provided on UNIX systems. You may have to include <sys/times.h>.
```

```
?S:.
?S:clocktype:
?S: This variable holds the type returned by times(). It can be long,
?S: or clock_t on BSD sites (in which case <sys/types.h> should be
?S: included).
?S:.
?C:HAS_TIMES (TIMES):
?C: This symbol, if defined, indicates that the times() routine exists.
?C: Note that this became obsolete on some systems (SUNOS), which now
?C: use getrusage(). It may be necessary to include <sys/times.h>.
?C:.
?C:Clock_t (CLOCKTYPE):
?C: This symbol holds the type returned by times(). It can be long,
?C: or clock_t on BSD sites (in which case <sys/types.h> should be
?C: included).
?C:.
?H:#$d_times HAS_TIMES  /**/
?H:#define Clock_t $clocktype /* Clock time */
?H:.
?T:val inc
: see if times exists
echo "
 "
if set times val -f d_times; eval $csym; $val; then
 echo 'times() found.' >&4
 d_times="$define"
 inc="
 case "$i_systimes" in
 "$define") inc='sys/times.h';;
 esac
 rp="What is the type returned by times() on this system?"
 set clock_t clocktype long stdio.h sys/types.h $inc
 eval $typedef_ask
else
 echo 'times() NOT found, hope that will do.' >&4
 d_times="$undef"
?X: The following is needed for typedef (won't like an empty variable)
 clocktype='int'
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/d_times.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_truncate.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_truncate.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_truncate: Inlibc
?MAKE: -pick add $@ %<
?S:d_truncate:
?S: This variable conditionally defines HAS_TRUNCATE if truncate() is
?S: available to truncate files.
?S:.
?C:HAS_TRUNCATE (TRUNCATE):
?C: This symbol, if defined, indicates that the truncate routine is
?C: available to truncate files.
?C:.
?H:#$d_truncate HAS_TRUNCATE /**/
?H:.
?LINT:set
 d_truncate
: see if truncate exists
set truncate d_truncate
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_truncate.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_netdb.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_netdb: Inhdr
?MAKE: -pick add $@ %<
?S:i_netdb:
?S: This variable conditionally defines the I_NETDB symbol, and indicates
?S: whether a C program should include <netdb.h>.
?S:.
?C:I_NETDB:
```

```
?C: This symbol, if defined, indicates that <netdb.h> exists and
?C: should be included.
?C:.
?H:#$i_netdb I_NETDB  /**/
?H:.
?LINT:set i_netdb
: see if this is a netdb.h system
set netdb.h i_netdb
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_netdb.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_dirent.U,v 3.0.1.4 1994/10/29 16:20:01 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: i_dirent.U,v $
?RCS: Revision 3.0.1.4  1994/10/29  16:20:01  ram
?RCS: patch36: failed scanning for 'd_namlen' with missing <dirent.h> (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:01:25  ram
?RCS: patch30: added direntrytype for hints, merely for NeXT (ADO)
?RCS: patch30: now checks for both struct dirent and direct (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:22:37  ram
?RCS: patch27: new variable direntrytype for proper type setting (ADO)
?RCS:
?RCS:
 Revision 3.0.1.1  1994/01/24  14:11:15  ram
?RCS: patch16: added new Direntry_t pseudo-type for directory entries
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit looks whether there is a dirent system or not
?X:
?MAKE:i_dirent d_dirnamlen direntrytype: test contains Setvar \
 Myread Findhdr cppstdin cppflags cppminus rm_try
```

```
?MAKE: -pick add $@ %<
?S:i_dirent:
?S: This variable conditionally defines I_DIRENT, which indicates
?S: to the C program that it should include <dirent.h>.
?S:.
?S:d_dirnamlen:
?S: This variable conditionally defines DIRNAMLEN, which indicates
?S: to the C program that the length of directory entry names is
?S: provided by a d_namelen field.
?S:.
?S:direntrytype:
?S: This symbol is set to 'struct direct' or 'struct dirent' depending on
?S: whether dirent is available or not. You should use this pseudo type to
?S: portably declare your directory entries.
?S:.
?C:I_DIRENT:
?C: This symbol,
 if defined, indicates to the C program that it should
?C: include <dirent.h>. Using this symbol also triggers the definition
?C: of the Direntry_t define which ends up being 'struct dirent' or
?C: 'struct direct' depending on the availability of <dirent.h>.
?C:.
?C:DIRNAMLEN:
?C: This symbol, if defined, indicates to the C program that the length
?C: of directory entry names is provided by a d_namlen field.  Otherwise
?C: you need to do strlen() on the d_name field.
?C:.
?C:Direntry_t:
?C: This symbol is set to 'struct direct' or 'struct dirent' depending on
?C: whether dirent is available or not. You should use this pseudo type to
?C: portably declare your directory entries.
?C:.
?H:#$i_dirent I_DIRENT  /**/
?H:#$d_dirnamlen DIRNAMLEN /**/
?H:?%<:@if I_DIRENT && Direntry_t
?H:?%<:#define Direntry_t $direntrytype
?H:?%<:@end
?H:.
?T:xinc guess1 guess2
?LINT:set i_dirent d_dirnamlen
: see if this is a dirent system
echo " "
if xinc=`./findhdr dirent.h`; $test "$xinc"; then
 val="$define"
 echo
 "<dirent.h> found." >&4
else
 val="$undef"
```

```
 if xinc=`./findhdr sys/dir.h`; $test "$xinc"; then
  echo "<sys/dir.h> found." >&4
  echo " "
 else
  xinc=`./findhdr sys/ndir.h`
 fi
 echo "<dirent.h> NOT found." >&4
fi
set i_dirent
eval $setvar

?X: Use struct dirent or struct direct?   If we're using dirent.h,
?X: it's probably struct dirent, but apparently not always.
?X: Assume $xinc still contains the name of the header file we're using.
@if direntrytype || Direntry_t
: Look for type of directory structure.
echo " "
$cppstdin $cppflags $cppminus < "$xinc" > try.c

case "$direntrytype" in
"|' ')
 case "$i_dirent" in
 $define) guess1='struct dirent' ;;
 *) guess1='struct direct'  ;;
 esac
 ;;
*) guess1="$direntrytype"
 ;;
esac

case "$guess1" in
'struct dirent') guess2='struct direct' ;;
*) guess2='struct dirent' ;;
esac

if $contains "$guess1" try.c >/dev/null 2>&1; then
 direntrytype="$guess1"
 echo "Your directory entries are $direntrytype." >&4
elif $contains "$guess2"
 try.c >/dev/null 2>&1; then
 direntrytype="$guess2"
 echo "Your directory entries seem to be $direntrytype." >&4
else
 echo "I don't recognize your system's directory entries." >&4
 rp="What type is used for directory entries on this system?"
 dflt="$guess1"
 . ./myread
 direntrytype="$ans"
```

```
fi
$rm_try

@end
@if d_dirnamlen || DIRNAMLEN
: see if the directory entry stores field length
echo " "
$cppstdin $cppflags $cppminus < "$xinc" > try.c
if $contains 'd_namlen' try.c >/dev/null 2>&1; then
 echo "Good, your directory entry keeps length information in d_namlen." >&4
 val="$define"
else
 echo "Your directory entry does not know about the d_namlen field." >&4
 val="$undef"
fi
set d_dirnamlen
eval $setvar
$rm_try

@end
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_dirent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_tzname.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_tzname.U,v $
?RCS: Revision 3.0.1.2  1994/08/29  16:14:43  ram
?RCS: patch32: forgot to set proper value in the val variable
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:57:55  ram
?RCS: patch30: created
?RCS:
?MAKE:d_tzname: Csym Setvar
?MAKE: -pick add $@ %<
?S:d_tzname:
?S: This variable conditionally defines HAS_TZNAME if tzname[] is
?S: available to access timezone names.
```

```
?S:.
?C:HAS_TZNAME:
?C: This symbol, if defined, indicates that the tzname[]
 array is
?C: available to access timezone names.
?C:.
?H:#$d_tzname HAS_TZNAME  /**/
?H:.
?LINT:set d_tzname
: see if tzname[] exists
echo " "
if set tzname val -a d_tzname; eval $csym; $val; then
 val="$define"
 echo 'tzname[] found.' >&4
else
 val="$undef"
 echo 'tzname[] NOT found.' >&4
fi
set d_tzname
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_tzname.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endsent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_endsent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_endsent: Inlibc
?MAKE: -pick add $@ %<
?S:d_endsent:
?S: This variable conditionally defines HAS_ENDSERVENT if endservent() is
?S: available to close whatever was being used for service queries.
?S:.
?C:HAS_ENDSERVENT:
?C: This symbol, if defined, indicates that the endservent() routine is
```

```
?C: available to close whatever was being used for
 service queries.
?C:.
?H:#$d_endsent HAS_ENDSERVENT  /**/
?H:.
?LINT:set d_endsent
: see if endservent exists
set endservent d_endsent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_endsent.U
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```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_volatile.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:08:49  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0.1.1  1993/09/09  11:49:51  ram
?RCS: patch9: volatile definition was swapped over with undef
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_volatile: cat +cc +ccflags rm_try Setvar
?MAKE: -pick add $@ %<
?S:d_volatile:
?S: This variable conditionally defines the HASVOLATILE symbol, which
?S: indicates
 to the C program that this C compiler knows about the
?S: volatile declaration.
?S:.
?C:HASVOLATILE ~ %<:
?C: This symbol, if defined, indicates that this C compiler knows about
?C: the volatile declaration.
?C:.
?H:?%<:#$d_volatile HASVOLATILE /**/
```

```
?H:?%<:#ifndef HASVOLATILE
?H:?%<:#define volatile
?H:?%<:#endif
?H:.
?W:%<:volatile
?LINT:set d_volatile
?LINT:known volatile
: check for volatile keyword
echo " "
echo 'Checking to see if your C compiler knows about "volatile"...' >&4
$cat >try.c <<'EOCP'
int main()
{
?X:
?X: The following seven lines added by Bill Campbell <billc@sierra.com>
?X: detect that MIPS compilers do not handle volatile in all situations.
?X:
 typedef struct _goo_struct goo_struct;
 goo_struct * volatile goo = ((goo_struct *)0);
 struct _goo_struct {
  long long_int;
  int reg_int;
  char char_var;
 };
 typedef unsigned short foo_t;
 char *volatile foo;
 volatile int bar;
 volatile foo_t blech;
 foo = foo;
}
EOCP
if $cc -c $ccflags try.c >/dev/null
 2>&1 ; then
 val="$define"
 echo "Yup, it does."
else
 val="$undef"
 echo "Nope, it doesn't."
fi
set d_volatile
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_volatile.U
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```
?RCS: $Id: man3dir.U,v 3.1 1999/07/08 20:52:19 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1996-1999, Andy Dougherty
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: man3dir.U,v $
?RCS: Revision 3.1  1999/07/08 20:52:19  doughera
?RCS: Updated for perl5.005_5x
?RCS:
?RCS: Revision 3.0.1.1  1997/02/28  16:10:34  ram
?RCS: patch61: created
?RCS:
?X: This was originally specific to perl5.  Since perl5 has man pages that
?X: go in both man1/ and man3/ directories, we need both man1dir
?X: and man3dir.  This unit is basically dist's mansrc.U with
?X: man3 used instead
 of man everywhere.
?X: I then added various tests because perl5 has *lots* of man3
?X: pages with long file names. -- ADO
?X:
?MAKE:man3dir man3direxp man3ext installman3dir: cat nroff Loc Oldconfig \
 sed man1dir spackage package Getfile Setprefixvar Prefixit Prefixup \
 d_flexfnam privlib Myread test
?MAKE: -pick add $@ %<
?Y:TOP
?D:man3dir=''
?S:man3dir:
?S: This variable contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?D:man3direxp=''
?S:man3direxp:
?S: This variable is the same as the man3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installman3dir=''
?S:installman3dir:
?S: This variable is really the same as man3direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man3direxp only
```

```
 points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:man3ext:
?S: This variable contains the extension that the manual page should
?S: have: one of 'n', 'l', or '3'.  The Makefile must supply the '.'.
?S: See man3dir.
?S:.
?T:prog tdflt
?LINT:change prefixvar
?LINT:set man3direxp
: determine where library module manual pages go
set man3dir man3dir none
eval $prefixit
$cat <<EOM

$spackage has manual pages for many of the library modules.
EOM

case "$nroff" in
nroff)
 $cat <<'EOM'
However, you don't have nroff, so they're probably useless to you.
EOM
 case "$man3dir" in
 ") man3dir="none";;
 esac;;
esac

case "$d_flexfnam" in
undef)
 $cat <<'EOM'
However, your system can't handle the long file names like File::Basename.3.
EOM
 case "$man3dir" in
 ") man3dir="none";;
 esac;;
esac

echo "If you don't want the manual sources installed, answer 'none'."
?X: In 5.005_57 and earlier, I had the following notes:
?X:
 We do not use /usr/local/man/man3 because some man programs will
?X: only show the /usr/local/man/man3 contents, and not the system ones,
?X: thus man less will show the perl module less.pm, but not the system
?X: less command.  We might also conflict with Tcl man pages.
?X: However, something like /opt/perl/man/man3 is fine.
?X:
```

```
?X: However, opinion seems to be shifting such that 'man POSIX' ought
?X: to just work.  -- Andy Dougherty  July 8, 1999
?X:
?X: remove any trailing -3.0 or other version indication from $package
prog=`echo $package | $sed 's/-*[0-9.]*$//'`
case "$man3dir" in
") dflt=`echo "$man1dir" | $sed -e 's/man1/man3/g' -e 's/man\.1/man\.3/g'`
 if $test -d "$privlib/man/man3"; then
  cat <<EOM >&4

WARNING:  Previous versions of perl installed man3 pages into
$privlib/man/man3.  This version will suggest a
new default of $dflt.
EOM
  tdflt=$dflt
  dflt='n'
  rp='Do you wish to preserve the old behavior?(y/n)'
  . ./myread
  case "$ans" in
  y*) dflt="$privlib/man/man3"
 ;;
  *)  dflt=$tdflt ;;
  esac
   fi
 ;;
*) dflt="$man3dir" ;;
esac
case "$dflt" in
' ') dflt=none ;;
esac
echo " "
fn=dn+~
rp="Where do the $package library man pages (source) go?"
. ./getfile
prefixvar=man3dir
. ./setprefixvar

case "$man3dir" in
") man3dir=' '
 installman3dir=";;
esac

: What suffix to use on installed man pages
case "$man3dir" in
' ')
 man3ext='0'
 ;;
*)
```

```
 rp="What suffix should be used for the $package library man pages?"
 case "$man3ext" in
 ") case "$man3dir" in
  *3)  dflt=3 ;;
  *3p) dflt=3p ;;
  *3pm) dflt=3pm ;;
  *l) dflt=l;;
  *n) dflt=n;;
  *o) dflt=o;;
  *p) dflt=p;;
  *C) dflt=C;;
  *L) dflt=L;;
  *L3) dflt=L3;;
  *) dflt=3;;
  esac
  ;;
 *) dflt="$man3ext";;
 esac
 . ./myread
 man3ext="$ans"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/man3dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: prototype.U,v 3.0.1.3 1994/05/06 15:11:49 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: prototype.U,v $
?RCS: Revision 3.0.1.3  1994/05/06  15:11:49  ram
?RCS: patch23: ensure cc flags used when looking for prototype support
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:15:36  ram
?RCS: patch16: prototype handling macros now appear only when needed
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:03:12  ram
?RCS: patch6: defines were referring to non-existent VOID symbol
?RCS:
```

```
?RCS: Revision 3.0  1993/08/18  12:09:36  ram
?RCS: Baseline for dist
 3.0 netwide release.
?RCS:
?MAKE:prototype: Nothing
?S:prototype:
?S: This variable holds the eventual value of CAN_PROTOTYPE, which
?S: indicates the C compiler can handle function prototypes.
?S:.
: stub, never used
prototype=nothing
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/prototype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sigaction.U,v 3.0.1.1 1997/02/28 15:44:29 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_sigaction.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:44:29  ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_sigaction: Csym Compile Setvar cat rm_try i_stdlib
?MAKE: -pick add $@ %<
?S:d_sigaction:
?S: This variable conditionally defines the HAS_SIGACTION symbol, which
?S: indicates that the Vr4 sigaction() routine is available.
?S:.
?C:HAS_SIGACTION:
?C: This symbol, if defined, indicates that Vr4's sigaction() routine
?C: is available.
?C:.
?H:#$d_sigaction
 HAS_SIGACTION /**/
?H:.
?T:val
?LINT:set d_sigaction
: see if we have sigaction
```

```
echo " "
if set sigaction val -f d_sigaction; eval $csym; $val; then
 echo 'sigaction() found.' >&4
?X:
?X: Solaris 2.5_x86 with SunWorks Pro C 3.0.1 doesn't have a complete
?X: sigaction structure if compiled with cc -Xc.  This compile test
?X: will fail then.  <doughera@lafcol.lafayette.edu>
?X:
 $cat > try.c <<EOP
#include <stdio.h>
#include <sys/types.h>
#include <signal.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
{
   struct sigaction act, oact;
   act.sa_flags = 0;
   oact.sa_handler = 0;
   /* so that act and oact are used */
   exit(act.sa_flags == 0 &&  oact.sa_handler == 0);
}
EOP
 set try
 if eval $compile_ok; then
  val="$define"
 else
  echo "But you don't seem to have a usable struct sigaction." >&4
  val="$undef"
 fi
else
 echo 'sigaction NOT found.' >&4
 val="$undef"
fi
set d_sigaction; eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_sigaction.U
No license file was found, but licenses were detected in source scan.

```
# $Id: errnolist.a,v 3.0 1993/08/18 12:04:35 ram Exp ram $
#
#  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
#
```

```
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#  that same Artistic Licence; a copy of which may be found at the root
#  of the source tree for dist 4.0.
#
# Original Author: Harlan Stenn <harlan@mumps.pfcs.com>
#
# $Log: errnolist.a,v $
# Revision 3.0  1993/08/18 12:04:35  ram
# Baseline for dist 3.0 netwide release.
#
#
# This is a simple-minded awk script to generate an initialization for
# sys_errnolist on systems that don't have it.
# This file now depends only on sys/errno.h error numbers under maxerr being
# in order.  It will complain and die if not.  NOTE: It will still produce
# a compilable output file, even with errors, so you
 must check the output.


BEGIN  {
   format = "\t\"%s\",\n"
   printf("/*\n** This is a generated file.  Do NOT edit it unless you really have to...\n*/\n\n")
   printf("char *sys_errnolist[] = {\n")
   maxerr = 89
  }

$1=="#define" {
   if(count > maxerr || substr($2,1,1) != "E")
    next   # we're not interested
   if($3 < count) { # this is bad
    printf("Fatal error: %s out of order at %s\n",\
    FILENAME, $2)>"/dev/tty"
    exit 1
   }
   # fill in the blanks
   while($3 > count) {
    dummy=sprintf("EDUMMY%d",count)
    printf(format,dummy)
    count++
   }
   printf(format,$2)
   count++
  }

END  {
   printf("\t0\n};\n")
```

```
  }
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/errnolist.a
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_mkfifo.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_mkfifo.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:14:17  ram
?RCS: patch36: created by ADO
?RCS:
?RCS:
?MAKE:d_mkfifo: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkfifo:
?S: This variable conditionally defines the HAS_MKFIFO symbol, which
?S: indicates to the C program that the mkfifo() routine is available.
?S:.
?C:HAS_MKFIFO :
?C: This symbol, if defined, indicates that the mkfifo
 routine is
?C: available to create FIFOs. Otherwise, mknod should be able to
?C: do it for you. However, if mkfifo is there, mknod might require
?C: super-user privileges which mkfifo will not.
?C:.
?H:#$d_mkfifo HAS_MKFIFO  /**/
?H:.
?LINT:set d_mkfifo
: see if mkfifo exists
set mkfifo d_mkfifo
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_mkfifo.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: ptrsize.U,v 3.0.1.1 1994/10/29 16:28:19 ram Exp $
?RCS:
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?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: ptrsize.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:28:19  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:37  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:ptrsize: cat rm_try Myread Compile run use64bitall i_stdlib d_quad
?MAKE: -pick add $@ %<
?S:ptrsize:
?S: This variable contains the value of the PTRSIZE symbol, which
?S: indicates to the C program how many bytes there are in a pointer.
?S:.
?C:PTRSIZE:
?C: This
 symbol contains the size of a pointer, so that the C preprocessor
?C: can make decisions based on it.  It will be sizeof(void *) if
?C: the compiler supports (void *); otherwise it will be
?C: sizeof(char *).
?C:.
?H:#define PTRSIZE $ptrsize  /**/
?H:.
?F:!try
?LINT:extern use64bitint
: check for length of pointer
echo " "
case "$ptrsize" in
")
 echo "Checking to see how big your pointers are..." >&4
 $cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
```

```
{
   printf("%d\n", (int)sizeof(void *));
   exit(0);
}
EOCP
 set try
 if eval $compile_ok; then
  ptrsize=`$run ./try`
  echo "Your pointers are $ptrsize bytes long."
 else
  dflt='4'
  echo "(I can't seem to compile the test program.  Guessing...)" >&4
  rp="What is the size of a pointer (in bytes)?"
  . ./myread
  ptrsize="$ans"
 fi
 ;;
esac
$rm_try
case "$use64bitall" in
"$define"|true|[yY]*)
 case "$ptrsize" in
 4) cat <<EOM >&4

*** You
 have chosen a maximally 64-bit build,
*** but your pointers are only 4 bytes wide.
*** Please rerun Configure without -Duse64bitall.
EOM
  case "$d_quad" in
  define)
   cat <<EOM >&4
*** Since you have quads, you could possibly try with -Duse64bitint.
EOM
   ;;
  esac
  cat <<EOM >&4
*** Cannot continue, aborting.

EOM

  exit 1
  ;;
 esac
 ;;
esac
```

Found in path(s):

* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/ptrsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_lockf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_lockf.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:09:36  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_lockf: Inlibc
?MAKE: -pick add $@ %<
?S:d_lockf:
?S: This variable conditionally defines HAS_LOCKF if lockf() is
?S: available to do file locking.
?S:.
?C:HAS_LOCKF (LOCKF):
?C: This symbol, if defined, indicates that the lockf routine is
?C: available to do file locking.
?C:.
?H:#$d_lockf
 HAS_LOCKF  /**/
?H:.
?LINT:set d_lockf
: see if lockf exists
set lockf d_lockf
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_lockf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_const.U,v $
?RCS: Revision 3.0.1.1  1993/11/10  17:33:41  ram
?RCS: patch14: stronger const check with added typedef for MIPS cc
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_const: cat rm cc ccflags Setvar
?MAKE: -pick add $@ %<
?S:d_const:
?S: This variable conditionally defines the HASCONST symbol, which
?S: indicates to the C program that this C compiler knows about the
?S: const type.
?S:.
?C:HASCONST ~ %<:
?C: This symbol,
 if defined, indicates that this C compiler knows about
?C: the const type. There is no need to actually test for that symbol
?C: within your programs. The mere use of the "const" keyword will
?C: trigger the necessary tests.
?C:.
?H:?%<:#$d_const HASCONST /**/
?H:?%<:#ifndef HASCONST
?H:?%<:#define const
?H:?%<:#endif
?H:.
?W:%<:const
?F:const.c const.o
?LINT:set d_const
?LINT:known const
: check for const keyword
echo " "
echo 'Checking to see if your C compiler knows about "const"...' >&4
$cat >const.c <<'EOCP'
?X: mmcg@bruce.cs.monash.edu.au reports that:
?X: The MIPS cc compiler (V2.10) on a dec 5000 running Ultrix 4.2A
?X: pretends to understand `const' but doesn't - it'll also fail to
?X: handle typedefs properly if they're declared const. To guard
?X: against this, boost up the test by using an explicit typedef...
typedef struct spug { int drokk; } spug;
int main()
{
 const char *foo;
```

```
 const spug y;
}
EOCP
if $cc -c $ccflags const.c >/dev/null 2>&1 ; then
 val="$define"
 echo "Yup,
 it does."
else
 val="$undef"
 echo "Nope, it doesn't."
fi
set d_const
eval $setvar
$rm -f const.c const.o
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_const.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getpagsz.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:13:10  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getpagsz pagesize: Oldconfig Myread Inlibc cat contains +cc +ccflags \
 libs rm Findhdr
?MAKE: -pick add $@ %<
?S:d_getpagsz:
?S: This variable conditionally defines HAS_GETPAGESIZE if getpagesize()
?S: is available to get the system page size.
?S:.
?S:pagesize (pagsize):
?S: This
 variable holds the size in bytes of a system page.
?S:.
```

```
?C:HAS_GETPAGESIZE (GETPAGESIZE):
?C: This symbol, if defined, indicates that the getpagesize system call
?C: is available to get system page size, which is the granularity of
?C: many memory management calls.
?C:.
?X: Don't name it PAGESIZE, this is sometimes used by <sys/param.h>
?C:PAGESIZE_VALUE (PAGSIZE):
?C: This symbol holds the size in bytes of a system page (obtained via
?C: the getpagesize() system call at configuration time or asked to the
?C: user if the system call is not available).
?C:.
?H:#$d_getpagsz HAS_GETPAGESIZE  /**/
?H:#define PAGESIZE_VALUE $pagesize /* System page size, in bytes */
?H:.
?F:!page
?T:guess
?LINT:set d_getpagsz
: see if getpagesize exists
set getpagesize d_getpagsz
eval $inlibc

@if pagesize || PAGESIZE_VALUE
: determine the system page size
echo " "
guess=' (OK to guess)'
case "$pagesize" in
")
 $cat >page.c <<EOP
extern int getpagesize();
int main()
{
 printf("%d\n", getpagesize());
}
EOP
 echo
 "Computing the granularity of memory management calls..." >&4
 dflt='4096'
 case "$d_getpagsz" in
 "$define")
  if $cc $ccflags -o page page.c $libs >/dev/null 2>&1; then
   dflt=`./page`
   guess=''
  else
   echo "(I can't seem to compile the test program--guessing)"
  fi
  ;;
 *)
  if $cc $ccflags -o page page.c $libs -lPW >/dev/null 2>&1; then
```

```
   dflt=`./page`
   guess=''
   echo "(For your eyes only: I used the getpagesize() from -lPW.)"
  else
   if $contains PAGESIZE `./findhdr sys/param.h` >/dev/null 2>&1; then
    $cat >page.c <<EOP
#include <sys/param.h>
int main()
{
 printf("%d\n", PAGESIZE);
}
EOP
    if $cc $ccflags -o page page.c $libs >/dev/null 2>&1; then
     dflt=`./page`
     guess=''
     echo "(Using value of PAGESIZE found in <sys/param.h>.)"
    fi
   fi
  fi
  ;;
 esac
 ;;
*) dflt="$pagesize"; guess='';;
esac
rp="What is the system page size, in bytes$guess?"
. ./myread
pagesize=$ans
$rm -f page.c page

@end
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getpagsz.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_readdir_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_readdir_r readdir_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_dirent extern_C
?MAKE: -pick add $@ %<
?S:d_readdir_r:
```

```
?S: This variable conditionally defines the HAS_READDIR_R symbol,
?S: which indicates to the C program that the readdir_r()
?S: routine is available.
?S:.
?S:readdir_r_proto:
?S: This variable encodes the prototype of readdir_r.
?S: It is zero if d_readdir_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_readdir_r
?S: is defined.
?S:.
?C:HAS_READDIR_R:
?C: This symbol, if defined, indicates that the readdir_r routine
?C: is available to readdir re-entrantly.
?C:.
?C:READDIR_R_PROTO:
?C: This
 symbol encodes the prototype of readdir_r.
?C: It is zero if d_readdir_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_readdir_r
?C: is defined.
?C:.
?H:#$d_readdir_r HAS_READDIR_R /**/
?H:#define READDIR_R_PROTO $readdir_r_proto /**/
?H:.
?T:try hdrs d_readdir_r_proto
: see if readdir_r exists
set readdir_r d_readdir_r
eval $inlibc
case "$d_readdir_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_dirent dirent.h"
 case "$d_readdir_r_proto:$usethreads" in
 ":define") d_readdir_r_proto=define
  set d_readdir_r_proto readdir_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_readdir_r_proto" in
 define)
 case "$readdir_r_proto" in
 "|0) try='int readdir_r(DIR*, struct dirent*, struct dirent**);'
 ./protochk "$extern_C $try" $hdrs && readdir_r_proto=I_TSR ;;
 esac
 case "$readdir_r_proto" in
 "|0) try='int readdir_r(DIR*, struct dirent*);'
 ./protochk "$extern_C $try" $hdrs && readdir_r_proto=I_TS
 ;;
 esac
```

```
 case "$readdir_r_proto" in
 "|0) d_readdir_r=undef
  readdir_r_proto=0
  echo "Disabling readdir_r, cannot determine prototype." >&4 ;;
 * ) case "$readdir_r_proto" in
  REENTRANT_PROTO*) ;;
  *) readdir_r_proto="REENTRANT_PROTO_$readdir_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "readdir_r has no prototype, not using it." >&4 ;;
  esac
  d_readdir_r=undef
  readdir_r_proto=0
  ;;
 esac
 ;;
*) readdir_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_readdir_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fchdir: Inlibc
?MAKE: -pick add $@ %<
?S:d_fchdir:
?S: This variable conditionally defines the HAS_FCHDIR symbol, which
?S: indicates to the C program that the fchdir() routine is available.
?S:.
?C:HAS_FCHDIR:
?C: This symbol, if defined, indicates that the fchdir routine is
?C: available to change directory using a file descriptor.
?C:.
?H:#$d_fchdir HAS_FCHDIR  /**/
?H:.
?LINT:set d_fchdir
```

```
: see if fchdir exists
set fchdir d_fchdir
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fchdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethostbyaddr_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_gethostbyaddr_r gethostbyaddr_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_gethostbyaddr_r:
?S: This variable conditionally defines the HAS_GETHOSTBYADDR_R symbol,
?S: which indicates to the C program that the gethostbyaddr_r()
?S: routine is available.
?S:.
?S:gethostbyaddr_r_proto:
?S: This variable encodes the prototype of gethostbyaddr_r.
?S: It is zero if d_gethostbyaddr_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gethostbyaddr_r
?S: is defined.
?S:.
?C:HAS_GETHOSTBYADDR_R:
?C: This symbol, if defined, indicates
 that the gethostbyaddr_r routine
?C: is available to gethostbyaddr re-entrantly.
?C:.
?C:GETHOSTBYADDR_R_PROTO:
?C: This symbol encodes the prototype of gethostbyaddr_r.
?C: It is zero if d_gethostbyaddr_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gethostbyaddr_r
?C: is defined.
?C:.
?H:#$d_gethostbyaddr_r HAS_GETHOSTBYADDR_R /**/
?H:#define GETHOSTBYADDR_R_PROTO $gethostbyaddr_r_proto /**/
?H:.
?T:try hdrs d_gethostbyaddr_r_proto
: see if gethostbyaddr_r exists
set gethostbyaddr_r d_gethostbyaddr_r
```

```
eval $inlibc
case "$d_gethostbyaddr_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_gethostbyaddr_r_proto:$usethreads" in
 ":define") d_gethostbyaddr_r_proto=define
  set d_gethostbyaddr_r_proto gethostbyaddr_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_gethostbyaddr_r_proto" in
 define)
 case "$gethostbyaddr_r_proto" in
 "|0) try='int gethostbyaddr_r(const char*, size_t, int, struct hostent*, char*,
 size_t, struct hostent**, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=I_CWISBWRE ;;
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) try='struct hostent* gethostbyaddr_r(const char*, size_t, int, struct hostent*, char*, size_t, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_CWISBWIE ;;
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) try='struct hostent* gethostbyaddr_r(const char*, size_t, int, struct hostent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_CWISBIE ;;
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) try='struct hostent* gethostbyaddr_r(const void*, size_t, int, struct hostent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_TWISBIE ;;
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) try='struct hostent* gethostbyaddr_r(const char*, int, int, struct hostent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_CIISBIE ;;
 esac
 case
 "$gethostbyaddr_r_proto" in
 "|0) try='struct hostent* gethostbyaddr_r(const char*, struct hostent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_CSBIE ;;
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) try='struct hostent* gethostbyaddr_r(const void*, struct hostent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=S_TSBIE ;;
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) try='int gethostbyaddr_r(const char*, size_t, int, struct hostent*, struct hostent_data*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=I_CWISD ;;
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) try='int gethostbyaddr_r(const char*, int, int, struct hostent*, struct hostent_data*);'
```

```
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=I_CIISD ;;
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) try='int gethostbyaddr_r(const char*, int, int);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=I_CII ;;
 esac
 case
 "$gethostbyaddr_r_proto" in
 "|0) try='int gethostbyaddr_r(const void*, socklen_t, int, struct hostent*, char*, size_t, struct hostent**, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyaddr_r_proto=I_TsISBWRE ;;
 esac
 case "$gethostbyaddr_r_proto" in
 "|0) d_gethostbyaddr_r=undef
  gethostbyaddr_r_proto=0
  echo "Disabling gethostbyaddr_r, cannot determine prototype." >&4 ;;
 * ) case "$gethostbyaddr_r_proto" in
  REENTRANT_PROTO*) ;;
  *) gethostbyaddr_r_proto="REENTRANT_PROTO_$gethostbyaddr_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "gethostbyaddr_r has no prototype, not using it." >&4 ;;
  esac
  d_gethostbyaddr_r=undef
  gethostbyaddr_r_proto=0
  ;;
 esac
 ;;
*) gethostbyaddr_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_gethostbyaddr_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: dlsrc.U,v$
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: dlsrc.U,v $
?RCS:
```

```
?X:  hpux support thanks to Jeff Okamoto <okamoto@hpcc101.corp.hp.com>
?X:
?X:  To create a shared library, you must compile ALL source files in the
?X:  library with +z (or possibly +Z if the library is whopping huge),
?X:  then link the library with -b.  Example:
?X:   cc -c +z module_a.c
?X:   cc -c +z module_b.c
?X:   ld -b module_a.o module_b.o -o module.sl
?X:
?MAKE:usedl ld dlsrc cccdlflags lddlflags ccdlflags bin_ELF ld_can_script: \
 rm_try Getfile Myread test osname sed d_dlopen Findhdr Setvar \
 src run cc ccflags ldflags optimize ls gccversion cat rsrc i_stdlib \
 i_unistd osvers sysroot
?MAKE: -pick add $@ %<
?Y:BOTTOM
?S:usedl:
?S: This variable
 indicates if the system supports dynamic
?S: loading of some sort.  See also dlsrc and dlobj.
?S:.
?S:ld:
?S: This variable indicates the program to be used to link
?S: libraries for dynamic loading.  On some systems, it is 'ld'.
?S: On ELF systems, it should be $cc.  Mostly, we'll try to respect
?S: the hint file setting.
?S:.
?S:dlsrc:
?S: This variable contains the name of the dynamic loading file that
?S: will be used with the package.
?S:.
?S:cccdlflags:
?S: This variable contains any special flags that might need to be
?S: passed with 'cc -c' to compile modules to be used to create a shared
?S: library that will be used for dynamic loading.  For hpux, this
?S: should be +z.  It is up to the makefile to use it.
?S:.
?S:lddlflags:
?S: This variable contains any special flags that might need to be
?S: passed to $ld to create a shared library suitable for dynamic
?S: loading.  It is up to the makefile to use it.  For hpux, it
?S: should be '-b'.  For sunos 4.1, it is empty.
?S:.
?S:ccdlflags:
?S: This
 variable contains any special flags that might need to be
?S: passed to cc to link with a shared library for dynamic loading.
?S: It is up to the makefile to use it.  For sunos 4.1, it should
?S: be empty.
```

```
?S:.
?S:bin_ELF:
?S: This variable saves the result from configure if generated binaries
?S: are in ELF format. Only set to defined when the test has actually
?S: been performed, and the result was positive.
?S:.
?S:ld_can_script:
?S: This variable shows if the loader accepts scripts in the form of
?S: -Wl,--version-script=ld.script. This is currently only supported
?S: for GNU ld on ELF in dynamic loading builds.
?S:.
?C:USE_DYNAMIC_LOADING ~ %<:
?C: This symbol, if defined, indicates that dynamic loading of
?C: some sort is available.
?C:.
?H:?%<:#$usedl USE_DYNAMIC_LOADING  /**/
?H:.
?W:%<:dlopen
?T:dldir thisflag tdir
?F:!a.out
: determine which dynamic loading, if any, to compile in
echo " "
dldir="ext/DynaLoader"
case "$usedl" in
   $define|y|true)
 dflt='y'
 usedl="$define"
 ;;
    $undef|n|false)
 dflt='n'
 usedl="$undef"
 ;;
   *)
 dflt='n'
 case "$d_dlopen" in
     $define) dflt='y' ;;
 esac
 : Does a dl_xxx.xs file exist for this operating system
 $test -f $rsrc/$dldir/dl_${osname}.xs && dflt='y'
 ;;
esac
rp="Do you wish to use dynamic loading?"
. ./myread
usedl="$ans"
bin_ELF="$undef"
case "$ans" in
   y*) usedl="$define"
 case "$dlsrc" in
```

```
    ") if $test -f $rsrc/$dldir/dl_${osname}.xs ; then
     dflt="$dldir/dl_${osname}.xs"
 elif $test "$d_dlopen" = "$define" ; then
     dflt="$dldir/dl_dlopen.xs"
 else
     dflt="
 fi
 ;;
    *)  dflt="$dldir/$dlsrc"
 ;;
esac
echo "The following dynamic loading files are available:"
: Can not go over to $dldir because getfile has path hard-coded in.
tdir=`pwd`; cd "$rsrc"; $ls -C $dldir/dl*.xs; cd "$tdir"
rp="Source file to use for dynamic loading"
fn="fne"
gfpth="$src"
. ./getfile
usedl="$define"
: emulate basename
dlsrc=`echo $ans | $sed -e 's%.*/\([^/]*\)$%\1%'`

$cat
<< EOM

Some systems may require passing special flags to $cc -c to
compile modules that will be used to create a shared library.
To use no flags, say "none".

EOM
 case "$cccdlflags" in
    ") case "$gccversion" in
 ") case "$osname" in
  hpux) dflt='+z' ;;
  irix*) dflt='-KPIC' ;;
  svr4*|esix*|solaris|nonstopux) dflt='-KPIC' ;;
  sunos) dflt='-pic' ;;
  *) dflt='none' ;;
     esac
     ;;
 *)  case "$osname" in
  darwin) dflt='none' ;;
  *linux*|svr4*|esix*|solaris|nonstopux) dflt='-fPIC' ;;
  *) dflt='-fpic' ;;
     esac ;;
 esac ;;
    ' ') dflt='none' ;;
    *)   dflt="$cccdlflags" ;;
```

```
esac

case "$dflt" in
    none) dflt=" ;;
esac

# If -Dsysroot was specified, now's the time to add it
# to cccdlflags
if test "X$sysroot" != X; then
    case "$gccversion" in
 ") ;;
 *)  case "$dflt" in
  *sysroot*) ;;
  'undef'|*)
      dflt="$dflt --sysroot=$sysroot" ;;
     esac
     ;;
    esac
fi

case "$dflt" in
    ") dflt='none';;
esac

rp="Any
special flags to pass to $cc -c to compile shared library modules?"
. ./myread
case "$ans" in
?X: Use ' ' so that a subsequent Configure run preserves the old state.
    none) cccdlflags=' ' ;;
    *)    cccdlflags="$ans" ;;
esac

cat << EOM

Some systems use ld to create libraries that can be dynamically loaded,
while other systems (such as those using ELF) use $cc.

EOM

: Determine if this is ELF
 $cat >try.c <<EOM
/* Test for whether ELF binaries are produced */
#include <fcntl.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
```

```
#$i_unistd I_UNISTD
#ifdef I_UNISTD
#include <unistd.h>
#endif
int main() {
   char b[4];
   int i = open("a.out",O_RDONLY);
   if(i == -1)
 exit(1); /* fail */
   if(read(i,b,4)==4 && b[0]==127 && b[1]=='E' && b[2]=='L' && b[3]=='F')
 exit(0); /* succeed (yes, it is ELF) */
   exit(1); /* fail */
}
EOM
 if $cc $ccflags $ldflags -o a.out try.c >/dev/null 2>&1 && $run ./a.out; then
     bin_ELF="$define"
 fi
 $rm_try

 case "$ld" in

    ") if $test $bin_ELF = "$define"; then
      cat <<EOM
You appear to have ELF support.  I'll use $cc to build dynamic libraries.
EOM
      dflt="$cc"
  else
      echo "I'll use ld to build dynamic libraries."
      dflt='ld'
  fi
  ;;
     *)  dflt="$ld"
  ;;
 esac

 rp="What command should be used to create dynamic libraries?"
 . ./myread
 ld="$ans"

 cat << EOM

Some systems may require passing special flags to $ld to create a
library that can be dynamically loaded.  If your ld flags include
-L/other/path options to locate libraries outside your loader's normal
search path, you may need to specify those -L options here as well.  To
use no flags, say "none".

EOM
```

```
case "$lddlflags" in
    ") case "$osname" in
     haiku) dflt='-shared' ;;
     hpux) dflt='-b';
    case "$gccversion" in
        ") dflt="$dflt +vnocompatwarnings" ;;
    esac
    ;;
     *linux*|irix*|gnu*)  dflt="-shared $optimize" ;;
     solaris) # See [perl #66604].
      # On Solaris 11, gcc -m64
on amd64
      # appears not to understand -G.  gcc versions at
      # least as old as 3.4.3 support -shared, so just
      # use that with Solaris 11 and later, but keep
      # the old behavior for older Solaris versions.
      case "$gccversion" in
   ") dflt='-G' ;;
   *)  case "$osvers" in
    2.?|2.10) dflt='-G' ;;
    *) dflt='-shared' ;;
       esac
       ;;
      esac
      ;;
     sunos) dflt='-assert nodefinitions' ;;
     svr4*|esix*|nonstopux) dflt="-G $ldflags" ;;
     *)     dflt='none' ;;
 esac
 ;;
    *) dflt="$lddlflags" ;;
esac

: Only do this for gcc, since, for example, qcc has no concept
: of --sysroot.
if $test "X$sysroot" != X; then
    case "$gccversion" in
 ") ;;
 *)  dflt="$dflt --sysroot=$sysroot" ;;
    esac
fi

: Try to guess additional flags to pick up local libraries.
: Be careful not to append to a plain 'none'
case "$dflt" in
    none) dflt=" ;;
esac
for thisflag in $ldflags; do
```

```
    case "$thisflag" in
 -L*|-R*|-Wl,-R*)

   case " $dflt " in
  *" $thisflag "*) ;;
  *) dflt="$dflt $thisflag" ;;
     esac
     ;;
    esac
done

case "$dflt" in
    "|' ') dflt='none' ;;
esac

case "$ldflags" in
    *-fstack-protector-strong*)
 case "$dflt" in
     *-fstack-protector-strong*) ;; # Don't add it again
     *) dflt="$dflt -fstack-protector-strong" ;;
 esac
 ;;
    *-fstack-protector*)
 case "$dflt" in
     *-fstack-protector*) ;; # Don't add it again
     *) dflt="$dflt -fstack-protector" ;;
 esac
 ;;
esac

rp="Any special flags to pass to $ld to create a dynamically loaded library?"
. ./myread
case "$ans" in
?X: Use ' ' so that a subsequent Configure run preserves the old state.
    none) lddlflags=' ' ;;
    *) lddlflags="$ans" ;;
esac

cat <<EOM

Some systems may require passing special flags to $cc to indicate that
the resulting executable will use dynamic linking.  To use no flags,
say "none".

EOM
 case "$ccdlflags" in
    ") case "$osname" in
     *linux*|hpux|gnu*)
```

```
 dflt='-Wl,-E' ;;
      sunos)             dflt='none'   ;;
      *)                 dflt='none'   ;;
  esac ;;
     ' ') dflt='none' ;;
     *)   dflt="$ccdlflags" ;;
 esac
 rp="Any special flags to pass to $cc to use dynamic linking?"
 . ./myread
 case "$ans" in
?X: Use ' ' so that a subsequent Configure run preserves the old state.
     none) ccdlflags=' ' ;;
     *)    ccdlflags="$ans" ;;
 esac
 ;;
?X: End of usedl=y section

   *)  usedl="$undef"
 ld='ld'
 dlsrc='dl_none.xs'
 lddlflags=''
 ccdlflags=''
 ;;
esac

ld_can_script="$undef"
case "$bin_ELF$usedl" in
   $define$define)
 # Abuse try.h and a.out names for neat cleanup
 $cat >try.c <<EOM
void foo() {}
void bar() {}
EOM
 $cat >try.h <<EOM
LIBTEST_42 {
global:
 foo;
local: *;
};
EOM
 if $cc $cccdlflags $ccdlflags $ccflags \
        $ldflags $lddlflags -o a.out try.c \
        -Wl,--version-script=try.h >/dev/null 2>&1 \
    &&  $test -s a.out ; then
     echo "ld supports scripting" >&4
     ld_can_script="$define"
 else
```

```
    echo "ld does not support scripting" >&4
 fi
 $rm_try
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/dlsrc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysfile.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysfile.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:11:36  ram
?RCS: patch56: removed <> characters from comment, per metalint suggestion
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:01:23  ram
?RCS: patch6: added default for i_sysfile
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_sysfile: h_sysfile Inhdr Setvar
?MAKE: -pick add $@ %<
?S:i_sysfile:
?S: This variable conditionally defines
 the I_SYS_FILE symbol, and indicates
?S: whether a C program should include <sys/file.h> to get R_OK and friends.
?S:.
?C:I_SYS_FILE (I_SYSFILE):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/file.h> to get definition of R_OK and friends.
?C:.
?H:#$i_sysfile I_SYS_FILE  /**/
?H:.
?T:val
?D:i_sysfile="
?LINT:change h_sysfile
?LINT:set i_sysfile
```

```
: see if this is a sys/file.h system
val=''
set sys/file.h val
eval $inhdr

: do we need to include sys/file.h ?
case "$val" in
"$define")
 echo " "
 if $h_sysfile; then
  val="$define"
  echo "We'll be including <sys/file.h>." >&4
 else
  val="$undef"
  echo "We won't be including <sys/file.h>." >&4
 fi
 ;;
*)
 h_sysfile=false
 ;;
esac
set i_sysfile
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sysfile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libdbm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libdbm.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:56:57  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libdbm: test Loc libpth _a
?MAKE: -pick add $@ %<
```

```
?S:libdbm:
?S: This variable contains the argument to pass to the loader in order
?S: to get the dbm library routines.  If there is no dbm or ndbm
?S: library, it is null.
?S:.
?T:xxx
:
 see if we should include -ldbm
echo " "
if $test -r /usr/lib/libndbm$_a || $test -r /usr/local/lib/libndbm$_a ; then
 echo "-lndbm found." >&4
 libdbm='-lndbm'
elif $test -r /usr/lib/libdbm$_a || $test -r /usr/local/lib/libdbm$_a ; then
 echo "-ldbm found." >&4
 libdbm='-ldbm'
else
 xxx=`./loc libdbm$_a x $libpth`
 case "$xxx" in
 x)
  echo "No dbm library found." >&4
  libdbm=''
  ;;
 *)
  echo "DBM library found in $xxx." >&4
  libdbm="$xxx"
  ;;
 esac
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/libdbm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_ilogb: Inlibc
?MAKE: -pick add $@ %<
?S:d_ilogb:
?S: This variable conditionally defines the HAS_ILOGB symbol, which
?S: indicates to the C program that the ilogb() routine is available
?S: for extracting the exponent of double x as a signed integer.
?S:.
?C:HAS_ILOGB:
?C: This symbol, if defined, indicates that the ilogb routine is
?C: available to get integer exponent of a floating-point value.
?C:.
```

```
?H:#$d_ilogb HAS_ILOGB  /**/
?H:.
?LINT:set d_ilogb
: see if ilogb exists
set ilogb d_ilogb
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_ilogb.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: rcs_branch.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: rcs_branch.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:40  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:rcs_branch: Myread contains Loc
?MAKE: -pick add $@ %<
?S:rcs_branch:
?S: This variable will hold "true" if rcs can take the -b<revision>
?S: option, which can make Life Easier on those folks who like to run
?S: rcsdiff manually.
?S:.
?T:xxx
: Tra la la la la
echo " "
echo "Checking to see if RCS understands the -b switch..." >&4
xxx=`./loc
 rcs " $pth`
case "$xxx" in
")
 rcs_branch=false
 echo "Oh.  You don't seem to have RCS here."
 ;;
*)
 rcs > rcsbranch.out 2>&1
 if $contains 'b\[rev\]' rcsbranch.out  >/dev/null 2>&1 ; then
  rcs_branch=true
```

```
  echo "Nice!  Your RCS is spiffy!"
 else
  rcs_branch=false
 echo "Well, at least you have RCS.  You know, a newer version is available."
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/rcs_branch.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Typedef.U,v 3.0.1.3 1995/07/25 13:42:07 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Typedef.U,v $
?RCS: Revision 3.0.1.3  1995/07/25  13:42:07  ram
?RCS: patch56: added backslash escapes within evals to prevent space problems
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:01:16  ram
?RCS: patch36: don't clobber visible 'val' variable, use 'varval' instead
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:05:14  ram
?RCS: patch32: created
?RCS:
?X:
?X: This unit checks for the definition of a given typedef.
?X:
?X: To use it, say:
?X: set typedef
 val_t default [includes]
?X: eval $typedef
?X:
?MAKE:Typedef: cppstdin cppminus cppflags rm sed contains Oldconfig Myread
?MAKE: -pick add $@ %<
?LINT:define typedef
?LINT:define typedef_ask
?V:typedef typedef_ask
?S:typedef:
?S: This shell variable is used internally by Configure to check
```

```
?S: whether a given typedef is defined or not. A typical use is:
?S:  set typedef val_t default [includes]
?S:  eval $typedef
?S: That will return val_t set to default if the typedef was not found,
?S: to typedef otherwise. If no includes are specified, look in sys/types.h.
?S:.
?S:typedef_ask:
?S: This shell variable is used internally by Configure to check
?S: whether a given typedef is defined or not.  If it is not defined,
?S: this will call the ./myread script to prompt for an answer.
?S: It is intended to be used to avoid unnecessary prompts.
?S: A typical use is
?S:  rp="What is the type for file position used by fsetpos()?"
?S:  set fpos_t fpostype long stdio.h sys/types.h
?S:  eval $typedef_ask
?S: This
 will set fpostype=fpos_t, if fpos_t is available.  Otherwise
?S: it will call myread with a default of 'long', and a prompt of $rp.
?S:.
?T:type var def inclist varval inc
?F:!temp.c
: define an is-a-typedef? function
typedef='type=$1; var=$2; def=$3; shift; shift; shift; inclist=$@;
case "$inclist" in
"") inclist="sys/types.h";;
esac;
eval "varval=\$$var";
case "$varval" in
"")
 $rm -f temp.c;
 for inc in $inclist; do
  echo "#include <$inc>" >>temp.c;
 done;
?X: Maybe it's a #define instead of a typedef.
 echo "#ifdef $type" >> temp.c;
 echo "printf(\"We have $type\");" >> temp.c;
 echo "#endif" >> temp.c;
 $cppstdin $cppflags $cppminus < temp.c >temp.E 2>/dev/null;
 if $contains $type temp.E >/dev/null 2>&1; then
  eval "$var=\$type";
 else
  eval "$var=\$def";
 fi;
 $rm -f temp.?;;
*) eval "$var=\$varval";;
esac'

?X: Originally, I eval'd $typedef and then checked the results against
```

```
?X: $type.  Unfortunately, it then became complicated to check
?X: whether you are re-using
 an old config.sh value, and the logic got
?X: so convoluted it became easier to just copy the function above
?X: and alter it slightly.  A.D.  3/1998
: define an is-a-typedef? function that prompts if the type is not available.
typedef_ask='type=$1; var=$2; def=$3; shift; shift; shift; inclist=$@;
case "$inclist" in
"") inclist="sys/types.h";;
esac;
eval "varval=\$$var";
case "$varval" in
"")
 $rm -f temp.c;
 for inc in $inclist; do
  echo "#include <$inc>" >>temp.c;
 done;
?X: Maybe it's a #define instead of a typedef.
 echo "#ifdef $type" >> temp.c;
 echo "printf(\"We have $type\");" >> temp.c;
 echo "#endif" >> temp.c;
 $cppstdin $cppflags $cppminus < temp.c >temp.E 2>/dev/null;
 echo " " ;
 echo "$rp" | $sed -e "s/What is/Looking for/" -e "s/?/./";
 if $contains $type temp.E >/dev/null 2>&1; then
  echo "$type found." >&4;
  eval "$var=\$type";
 else
  echo "$type NOT found." >&4;
  dflt="$def";
  . ./myread ;
  eval "$var=\$ans";
 fi;
 $rm -f temp.?;;
*) eval "$var=\$varval";;
esac'
```

Found
 in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/Typedef.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libc.U,v $
?RCS: Revision 3.0.1.10  1997/02/28  15:56:48  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: added support for HPUX-10 nm output
?RCS:
?RCS: Revision 3.0.1.9  1995/07/25  14:11:56  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.8  1995/05/12  12:20:47  ram
?RCS: patch54: made sure only most recent version of shared lib is picked
?RCS: patch54: final "nm -p" check now uses xscan and xrun
 like everybody
?RCS: patch54: can now grok Linux nm output with lead __IO (ADO)
?RCS: patch54: added support for Linux ELF output, using 'W' for alias (ADO)
?RCS:
?RCS: Revision 3.0.1.7  1994/10/29  16:23:40  ram
?RCS: patch36: now looks for shared libraries before anything else (ADO)
?RCS: patch36: added new nm output format (ADO)
?RCS:
?RCS: Revision 3.0.1.6  1994/08/29  16:28:10  ram
?RCS: patch32: added I-type symbols for nm output parsing on Linux
?RCS:
?RCS: Revision 3.0.1.5  1994/06/20  07:03:24  ram
?RCS: patch30: checks are now presented by succession of if/elif
?RCS: patch30: uniformized checks for shared objects with new so symbol
?RCS:
?RCS: Revision 3.0.1.4  1994/05/06  15:06:33  ram
?RCS: patch23: added shared library knowledge (ADO and WED)
?RCS:
?RCS: Revision 3.0.1.3  1994/01/24  14:12:17  ram
?RCS: patch16: can now export nm_extract as an internal-use only variable
?RCS:
?RCS: Revision 3.0.1.2  1993/09/13  16:09:03  ram
?RCS: patch10: added special handling for Apollo
 systems (WAD)
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:40:03  ram
?RCS: patch7: added entry for /usr/shlib/libc.so (OSF/1 machines)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libc +nm_extract: echo n c rm test grep Getfile Myread Oldconfig Loc \
```

```
 sed libs incpath libpth ar runnm nm nm_opt nm_so_opt contains xlibpth \
 so _a _o osname trnl tr sort uniq sysroot
?MAKE: -pick add $@ %<
?S:libc:
?S: This variable contains the location of the C library.
?S:.
?S:nm_extract:
?S: This variable holds the name of the extraction command used to process
?S: the output of nm and yield the list of defined symbols. It is used
?S: internally by Configure.
?S:.
?T:thislib try libnames xxx xscan xrun thisname com tans file
?F:!libnames !libc.tmp !tmp.imp
?LINT:extern PASE
?LINT:extern libnames
?LINT:change nm_opt
?INIT:libnames=''
: Figure out where the libc is located
case "$runnm" in
true)
?X: indentation is wrong on purpose--RAM
:
 get list of predefined functions in a handy place
echo " "
case "$libc" in
'') libc=unknown
 case "$libs" in
 *-lc_s*) libc=`./loc libc_s$_a $libc $libpth`
 esac
 ;;
esac
case "$libs" in
'') ;;
*)  for thislib in $libs; do
 case "$thislib" in
 -lc|-lc_s)
  : Handle C library specially below.
  ;;
 -l*)
  thislib=`echo $thislib | $sed -e 's/^-l//'`
  if try=`./loc lib$thislib.$so.'*' X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib.$so X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib$_a X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc $thislib$_a X $libpth`; $test -f "$try"; then
   :
```

```
  elif try=`./loc lib$thislib X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc $thislib X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc Slib$thislib$_a X $xlibpth`; $test -f "$try"; then
   :
  else
   try=''
  fi
  libnames="$libnames $try"
  ;;
 *) libnames="$libnames $thislib" ;;
 esac
 done
 ;;
esac
?X:
?X: Some systems (e.g. DG/UX) use
 "environmental" links, which make the test
?X: -f fail. Ditto for symbolic links. So in order to reliably check the
?X: existence of a file, we use test -r. It will still fail with DG/UX links
?X: though, but at least it will detect symbolic links. At some strategic
?X: points, we make use of (test -h), using a sub-shell in case builtin test
?X: does not implement the -h check for symbolic links. This makes it
?X: possible to preset libc in a hint file for instance and have it show up
?X: as-is in the question.
?X:
xxx=normal
case "$libc" in
unknown)
?X:
?X: The sed below transforms .so.9 .so.12 into something like .so.0009 .so.0012,
?X: then sorts on it to allow keeping .so.12 instead of .so.9 as the latest
?X: up-to-date library. The initial filename (before sed munging, saved in hold
?X: space via 'h') is appended via 'G' before sorting, then the leading munged
?X: part is removed after sorting. Nice efficient work from Tye McQueen.
?X: The initial blurfl is here to prevent the trailing
 pipe from producing an
?X: empty string, causing Configure to output all its set variables!
?X:
 set /lib/libc.$so
 for xxx in $libpth; do
  $test -r $1 || set $xxx/libc.$so
  : The messy sed command sorts on library version numbers.
  $test -r $1 || \
   set `echo blurfl; echo $xxx/libc.$so.[0-9]* | \
   tr ' ' $trnl | egrep -v '\.[A-Za-z]*$' | $sed -e '
    h
```

```
    s/[0-9][0-9]*/0000&/g
    s/0*\([0-9][0-9][0-9][0-9][0-9]\)/\1/g
    G
    s/\n/ /' | \
    $sort | $sed -e 's/^.* //'`
  eval set \$$#
 done
 $test -r $1 || set $sysroot/usr/ccs/lib/libc.$so
 $test -r $1 || set $sysroot/lib/libsys_s$_a
 ;;
*)
?X: ensure the test below for the (shared) C library will fail
 set blurfl
 ;;
esac
if $test -r "$1"; then
 echo "Your (shared) C library seems to be in $1."
 libc="$1"
elif $test -r /lib/libc && $test -r /lib/clib; then
?X:
?X: Apollo has its C library in /lib/clib AND /lib/libc
?X: not to mention its math library in /lib/syslib...
?X:
 echo "Your C library seems to be in both /lib/clib
 and /lib/libc."
 xxx=apollo
 libc='/lib/clib /lib/libc'
 if $test -r /lib/syslib; then
  echo "(Your math library is in /lib/syslib.)"
?X: Put syslib in libc -- not quite right, but won't hurt
  libc="$libc /lib/syslib"
 fi
elif $test -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
 echo "Your C library seems to be in $libc, as you said before."
?X: For mips, and...
elif $test -r $incpath/usr/lib/libc$_a; then
 libc=$incpath/usr/lib/libc$_a;
 echo "Your C library seems to be in $libc.  That's fine."
elif $test -r /lib/libc$_a; then
 libc=/lib/libc$_a;
 echo "Your C library seems to be in $libc.  You're normal."
else
 if tans=`./loc libc$_a blurfl/dyick $libpth`; $test -r "$tans"; then
  :
 elif tans=`./loc libc blurfl/dyick $libpth`; $test -r "$tans"; then
  libnames="$libnames "`./loc clib blurfl/dyick $libpth`
 elif tans=`./loc clib blurfl/dyick $libpth`; $test -r "$tans"; then
  :
```

```
 elif tans=`./loc Slibc$_a blurfl/dyick $xlibpth`; $test -r "$tans"; then
  :
 elif tans=`./loc
 Mlibc$_a blurfl/dyick $xlibpth`; $test -r "$tans"; then
  :
 else
  tans=`./loc Llibc$_a blurfl/dyick $xlibpth`
 fi
 if $test -r "$tans"; then
  echo "Your C library seems to be in $tans, of all places."
  libc=$tans
 else
  libc='blurfl'
 fi
fi
if $test $xxx = apollo -o -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
 dflt="$libc"
 cat <<EOM

If the guess above is wrong (which it might be if you're using a strange
compiler, or your machine supports multiple models), you can override it here.

EOM
else
 dflt=''
 echo $libpth | $tr ' ' $trnl | $sort | $uniq > libpath
 cat >&4 <<EOM
I can't seem to find your C library.  I've looked in the following places:

EOM
 $sed 's/^/ /' libpath
 cat <<EOM

None of these seems to contain your C library. I need to get its name...

EOM
fi
fn=f
rp='Where is your C library?'
. ./getfile
libc="$ans"

echo " "
echo $libc $libnames | $tr ' ' $trnl | $sort | $uniq > libnames
set X `cat libnames`
shift
xxx=files
case $# in 1) xxx=file; esac
```

```
echo
 "Extracting names from the following $xxx for later perusal:" >&4
echo " "
$sed 's/^/ /' libnames >&4
echo " "
$echo $n "This may take a while...$c" >&4

?X:
?X: Linux may need the special Dynamic option to nm for shared libraries.
?X: In general, this is stored in the nm_so_opt variable.
?X: Unfortunately, that option may be fatal on non-shared libraries.
?X:
for file in $*; do
 case $file in
 *$so*) $nm $nm_so_opt $nm_opt $file 2>/dev/null;;
 *) $nm $nm_opt $file 2>/dev/null;;
 esac
done >libc.tmp

$echo $n ".$c"
?X:
?X: To accelerate processing, we look at the correct 'sed' command
?X: by using a small subset of libc.tmp, i.e. fprintf function.
?X: When we know which sed command to use, do the name extraction
?X:
$grep fprintf libc.tmp > libc.ptf
?X:
?X: In order to enhance readability and save some space, we define
?X: some variables that will be "eval"ed.
?X:
xscan='eval "<libc.ptf $com >libc.list"; $echo $n ".$c" >&4'
xrun='eval "<libc.tmp $com >libc.list"; echo "done." >&4'
?X:
 BSD-like output, I and W types added for Linux
?X: Some versions of Linux include a leading __IO in the symbol name.
?X: HP-UX 10 reportedly has trailing spaces, though I'm surprised it has
?X: BSD-like output.  (AD).
?X: GNU extension: i is "indirect function"
xxx='[ADTSIWi]'
if com="$sed -n -e 's/__IO//' -e 's/^.* $xxx  *//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: SYSV-like output
elif com="$sed -n -e 's/^__*//' -e 's/^\([a-zA-Z_0-9$]*\).*xtern.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
```

```
elif com="$sed -n -e '/|UNDEF/d' -e '/FUNC..GL/s/^.*|__*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.* D __*//p' -e 's/^.* D //p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^_//' -e 's/^\([a-zA-Z_0-9]*\).*xtern.*text.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$'
 libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$grep '|' | $sed -n -e '/|COMMON/d' -e '/|DATA/d' \
    -e '/ file/d' -e 's/^\([^  ]*\).*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|//p' -e 's/^.*|FUNC |WEAK .*|//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: mips nm output (sysV)
elif com="$sed -n -e 's/^__//' -e '/|Undef/d' -e '/|Proc/s/ .*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|Proc .*|Text *| *//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e '/Def. Text/s/.* \([^ ]*\)\$/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: OS/2
 nm output
elif com="$sed -n -e 's/^[-0-9a-f ]*_\(.*\)=.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/.*\.text n\ \ \ \.//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
```

```
  eval $xrun
?X: AIX nm output
elif com="sed -n -e 's/^__.*//' -e 's/[       ]*D[    ]*[0-9]*.*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
else
 $nm -p $* 2>/dev/null >libc.tmp
 $grep fprintf libc.tmp > libc.ptf
 if com="$sed -n -e 's/^.* [ADTSIW]  *_[_.]*//p' -e 's/^.* [ADTSIW] //p'";\
  eval $xscan; $contains '^fprintf$' libc.list >/dev/null 2>&1
 then
  nm_opt='-p'
  eval $xrun
 else
  echo " "
  echo "$nm didn't seem to work right. Trying $ar instead..." >&4
  com="
  if $ar t $libc > libc.tmp && \
   $contains '^fprintf$' libc.tmp >/dev/null 2>&1
  then
   for thisname in $libnames $libc; do
    $ar t $thisname >>libc.tmp
   done
   $sed -e "s/\\$_o\$//" < libc.tmp > libc.list
   echo
 "Ok." >&4
  elif test "X$osname" = "Xos2" && $ar tv $libc > libc.tmp; then
?X: Repeat libc to extract forwarders to DLL entries too
   for thisname in $libnames $libc; do
    $ar tv $thisname >>libc.tmp
?X: Revision 50 of EMX has bug in ar: it will not extract forwarders
?X: to DLL entries.  Use emximp which will extract exactly them.
    emximp -o tmp.imp $thisname \
        2>/dev/null && \
        $sed -e 's/^\([_a-zA-Z0-9]*\) .*$/\1/p' \
        < tmp.imp >>libc.tmp
    $rm -f tmp.imp
   done
   $sed -e "s/\\$_o\$//" -e 's/^ \+//' < libc.tmp > libc.list
   echo "Ok." >&4
  else
   echo "$ar didn't seem to work right." >&4
   echo "Maybe this is a Cray...trying bld instead..." >&4
   if  bld t $libc | \
    $sed -e 's/.*\///' -e "s/\\$_o:.*\$//" > libc.list &&
    $test -s libc.list
   then
```

```
    for thisname in $libnames; do
     bld t $libnames | \
     $sed -e 's/.*\///' -e "s/\\$_o:.*\$//" >>libc.list
     $ar t $thisname >>libc.tmp
    done
    echo "Ok." >&4
   else
    echo
 "That didn't work either.  Giving up." >&4
    exit 1
   fi
  fi
 fi
fi
nm_extract="$com"
case "$PASE" in
define)
   echo " "
   echo "Since you are compiling for PASE, extracting more symbols from libc.a ...">&4
   dump -Tv /lib/libc.a | awk '$7 == "/unix" {print $5 " " $8}' | grep "^SV" | awk '{print $2}' >> libc.list
   ;;
*)  if $test -f /lib/syscalls.exp; then
 echo " "
 echo "Also extracting names from /lib/syscalls.exp for good ole AIX..." >&4
 $sed -n 's/^\([^  ]*\)[  ]*syscall[0-9]*[  ]*$/\1/p' \
  /lib/syscalls.exp >>libc.list
   fi
   ;;
esac
;;
esac
$rm -f libnames libpath
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/libc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sigblock.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: d_sigblock.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:21  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sigblock: Inlibc
?MAKE: -pick add $@ %<
?S:d_sigblock:
?S: This variable conditionally defines HAS_SIGBLOCK if sigblock() is
?S: available to block signal reception.
?S:.
?C:HAS_SIGBLOCK:
?C: This symbol, if defined, indicates that the sigblock routine is
?C: available to block signal reception.
?C:.
?H:#$d_sigblock HAS_SIGBLOCK /**/
?H:.
?LINT:set
 d_sigblock
: see if sigblock exists
set sigblock d_sigblock
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sigblock.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_umask.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_umask.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:14:50  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_umask: Inlibc
?MAKE: -pick add $@ %<
?S:d_umask:
?S: This variable conditionally defines the HAS_UMASK symbol, which
?S: indicates to the C program that the umask() routine is available.
```

```
?S: to set and get the value of the file creation mask.
?S:.
?C:HAS_UMASK :
?C: This
 symbol, if defined, indicates that the umask routine is
?C: available to set and get the value of the file creation mask.
?C:.
?H:#$d_umask HAS_UMASK  /**/
?H:.
?LINT:set d_umask
: see if umask exists
set umask d_umask
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_umask.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setpgid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setpgid.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:41:49  ram
?RCS: patch61: reworded symbol comments
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:06:40  ram
?RCS: patch16: created
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setpgid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setpgid:
?S: This variable conditionally defines the HAS_SETPGID symbol if the
?S: setpgid(pid, gpid) function is
 available to set process group ID.
?S:.
?C:HAS_SETPGID:
?C: This symbol, if defined, indicates that the setpgid(pid, gpid)
```

```
?C: routine is available to set process group ID.
?C:.
?H:#$d_setpgid HAS_SETPGID /**/
?H:.
?LINT:set d_setpgid
: see if setpgid exists
set setpgid d_setpgid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setpgid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Init.U,v $
?RCS: Revision 3.0.1.1  1994/10/31  09:45:59  ram
?RCS: patch44: removed Options from MAKE to prevent Init overrides
?RCS: patch44: option processing now done after Myinit thanks to new Begin.U
?RCS: patch44: moved "Beginning of configuration questions" to Begin.U
?RCS: patch44: moved signal trapping instruction to Begin.U as well
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file initializes certain default variables
 used by Configure.  They
?X: may be overridden or added to by definitions in Myinit.U.
?X:
?MAKE:Init eunicefix _exe: Null
?MAKE: -pick add $@ %<
?MAKE: -pick weed $@ ./Init
?S:eunicefix:
?S: When running under Eunice this variable contains a command which will
?S: convert a shell script to the proper form of text file for it to be
?S: executable by the shell.  On other systems it is a no-op.
?S:.
?S:_exe (exe_ext):
```

```
?S: This variable defines the extension used for executable files.
?S: For unix it is empty.  Other possible values include '.exe'.
?S: DJGPP, Cygwin and OS/2 use '.exe'.  Stratus VOS uses '.pm'.
?S: On operating systems which do not require a specific extension
?S: for executable files, this variable is empty.
?S:.
?V:define undef smallmach:rmlist
?X:
?X: Throughout the units, one may make use of $define and $undef to reference
?X: a defined symbol or an undefined one. There is no need to add them in
?X: the dependency line since this unit makes them visible via ?V:, and
?X:
 everyone inherits from those symbols since by convention Init.U is the
?X: root dependency.
?X:
?T: DJGPP
: Initialize wide constants
define='define'
undef='undef'
smallmach='pdp11 i8086 z8000 i80286 iAPX286'
rmlist=''

: We must find out about Eunice early
eunicefix=':'
if test -f /etc/unixtovms; then
 eunicefix=/etc/unixtovms
fi
if test -f /etc/unixtovms.exe; then
 eunicefix=/etc/unixtovms.exe
fi

: Set executable suffix now -- needed before hints available
if test -f "/libs/version.library"; then
 : Amiga OS
  _exe=""
elif test -f "/system/gnu_library/bin/ar.pm"; then
 : Stratus VOS
 _exe=".pm"
elif test -n "$DJGPP"; then
 : DOS DJGPP
  _exe=".exe"
elif test -d c:/. ; then
 : OS/2 or cygwin
 _exe=".exe"
else
 : All other UNIX systems
 _exe=""
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Init.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:run to from targetarch targetdir targetmkdir targethost targetport \
 usecrosscompile hostperl hostgenerate hostosname targetenv: \
    src test rm echo sed mkdir cp chmod make touch
?MAKE: -pick add $@ %<
?Y:TOP
?S:usecrosscompile:
?S: This variable conditionally defines the USE_CROSS_COMPILE symbol,
?S: and indicates that Perl has been cross-compiled.
?S:.
?S:run:
?S: This variable contains the command used by Configure
?S: to copy and execute a cross-compiled executable in the
?S: target host.  Useful and available only during Perl build.
?S: Empty string '' if not cross-compiling.
?S:.
?S:from:
?S: This variable contains the command used by Configure
?S: to copy files from the target host.  Useful
 and available
?S: only during Perl build.
?S: The string ':' if not cross-compiling.
?S:.
?S:to:
?S: This variable contains the command used by Configure
?S: to copy to from the target host.  Useful and available
?S: only during Perl build.
?S: The string ':' if not cross-compiling.
?S:.
?S:targetarch:
?S: If cross-compiling, this variable contains the target architecture.
?S: If not, this will be empty.
?S:.
?S:targetdir:
?S: This variable contains a path that will be created on the target
?S: host using targetmkdir, and then used to copy the cross-compiled
```

```
?S: executables to. Defaults to '/tmp' if not set.
?S:.
?S:targetmkdir:
?S: This variable contains the command used by Configure to create a
?S: new directory on the target host.
?S:.
?S:targethost:
?S: This variable contains the name of a separate host machine that
?S: can be used to run compiled test programs and perl tests on.
?S: Set to empty string if not in use.
?S:.
?S:targetport:
?S: This variable contains the number
 of a network port to be used to
?S: connect to the host in targethost, if unset defaults to 22 for ssh.
?S:.
?S:hostperl:
?S: This variable contains the path to a miniperl binary that can be
?S: run on the host OS when cross-compiling.  Useful and available only
?S: during Perl build.
?S: Empty string '' if not cross-compiling.
?S:.
?S:hostgenerate:
?S: This variable contains the path to a generate_uudmap binary that
?S: can be run on the host OS when cross-compiling.  Useful and
?S: available only during Perl build.
?S: Empty string '' if not cross-compiling.
?S:.
?S:hostosname:
?S: This variable contains the original value of '$^O' for hostperl
?S: when cross-compiling.  This is useful to pick the proper tools
?S: when running build code in the host.
?S: Empty string '' if not cross-compiling.
?S:.
?S:targetenv:
?S: If cross-compiling, this variable can be used to modify the
?S: environment on the target system.
?S: However, how and where it's used, and even if it's used at all, is
?S: entirely
 dependent on both the transport mechanism (targetrun) and
?S: what the target system is.  Unless the relevant documentation says
?S: otherwise, it is genereally not useful.
?S:.
?C:USE_CROSS_COMPILE:
?C: This symbol, if defined, indicates that Perl is being cross-compiled.
?C:.
?C:PERL_TARGETARCH:
?C: This symbol, if defined, indicates the target architecture
```

```
?C: Perl has been cross-compiled to.  Undefined if not a cross-compile.
?C:.
?H:?%<:#ifndef USE_CROSS_COMPILE
?H:?%<:#$usecrosscompile USE_CROSS_COMPILE /**/
?H:?%<:#define PERL_TARGETARCH "$targetarch" /**/
?H:?%<:#endif
?H:.
?D:targetenv=''
?D:targethost=''
?D:targetmkdir=''
?T:croak pwd exe f q cwd file xxx env
?LINT:extern usecrosscompile
?LINT:extern cc
?LINT:extern usrinc
?LINT:change ar
?LINT:change nm
?LINT:change ranlib
?LINT:change src
?LINT:extern targetenv
?LINT:extern targetport
?LINT:extern targetdir
?LINT:extern targetuser
?LINT:change targetuser
?LINT:extern targetrun
?LINT:extern targetfrom
?LINT:extern
 targetto
?LINT:change targetrun
?LINT:change targetfrom
?LINT:change targetto
?LINT:extern incpth
?LINT:extern libpth
?LINT:extern locincpth
?LINT:extern loclibpth
?LINT:change locincpth
?LINT:change loclibpth
?LINT:extern hostperl
?LINT:extern hostgenerate
?LINT:extern before_host
?LINT:change before_host
?LINT:extern hostosname
?LINT:extern multiarch
: Check for Cross-Compilation
?X: targethost and targetenv mainly set to allow ?S: documentation
?X:otherwise it could have been declared extern
if $test "X$targethost" = "X"; then
   targethost=""
fi
```

```
if $test "X$targetenv" = "X"; then
  targetenv=""
fi
case "$usecrosscompile" in
$define|true|[yY]*)
 $echo "Cross-compiling..."
 croak=''
 case "$cc" in
 *-gcc*|*-g++*) # A cross-compiling gcc, probably.
    # arm-linux-androideabi-gcc  -> arm-linux-androideabi
    # x86_64-w64-mingw32-gcc.exe -> x86_64-w64-mingw32
    targetarch=`$echo $cc|$sed 's/-g[c\+][c\+].*$//'`
    ar=`$echo $cc|$sed 's/-g[c\+][c\+]/-ar/'`
    # leave out ld,
 choosing it is more complex
    nm=`$echo $cc|$sed 's/-g[c\+][c\+]/-nm/'`
    ranlib=`$echo $cc|$sed 's/-g[c\+][c\+]/-ranlib/'`
    # We are in a weird spot. Just before us, some values
    # were 'saved', to be restored after the hints are
    # run.  This means that the changes we made to ar,
    # nm and ranlib will get reverted.
    # To avoid that, we hijack the saving mechanism and
    # have it save our new values.
    for file in ar nm ranlib; do
  eval xxx=\$$file
  eval $file=$xxx$_exe
  eval _$file=$xxx
    done
 ;;
 esac
 case "$targetarch" in
 '') echo "Targetarch not defined." >&4; croak=y ;;
 *)  echo "Using targetarch $targetarch." >&4 ;;
 esac
 case "$targethost" in
 '') echo "Targethost not defined." >&4; croak=n ;;
 *)  echo "Using targethost $targethost." >&4
 esac
 locincpth=' '
 loclibpth=' '
 case "$croak" in
 y) echo "Cannot continue, aborting." >&4; exit 1 ;;
 esac
  : compile a host miniperl and generate_uudmap, unless we got passed them
  if
 $test "X$hostperl" = X; then
    echo "Building host miniperl and generate_uudmap binaries" >&4
    before_host=`pwd`
```

```
    cd ..
    cd $src
    src=`pwd`
    rm -rf $src/host
    mkdir $src/host
    cd $src/host
    $src/Configure -des -Dusedevel -Dmksymlinks
    $make miniperl
    case "$hostgenerate" in
    ") $make generate_uudmap
        hostgenerate=$src/host/generate_uudmap
        ;;
     "$undef") hostgenerate="
        ;;
    esac
    hostperl=$src/host/miniperl
    cd $before_host
  fi
  hostosname=`$hostperl -le 'print $^O'`
  ;;
*)
  usecrosscompile="$undef"
  ;;
esac

: Define -Dtargethost=somecomputer to run compiled tests on another machine
case "$targethost" in
  ") echo "Checking for cross-compile" >&4
  case "$usecrosscompile$multiarch" in
     *$define*) echo "Skipping the try tests in the rest of Configure as no targethost was defined when cross-
compiling" >&4
       if [ -f Makefile ]; then
         echo
 " "
         echo "Now you must ensure config.sh, config.h and the generated headers exist and run a $make."
       else
         echo "Configure done."
       fi
     exit 0
     ;;
   *) echo "No targethost for running compiler tests against defined, running locally" >&4
      run="
      to=:
      from=:
      ;;
  esac
  ;;
  *) echo "Using targethost $targethost." >&4
```

```
case "$src" in
/*) run=$src/Cross/run
   targetmkdir=$src/Cross/mkdir
   to=$src/Cross/to
   from=$src/Cross/from
   ;;
*)  pwd=`$test -f ../Configure & cd ..; pwd`
   run=$pwd/Cross/run
   targetmkdir=$pwd/Cross/mkdir
   to=$pwd/Cross/to
   from=$pwd/Cross/from
   ;;
esac
case "$targetrun" in
") targetrun=ssh ;;
esac
case "$targetto" in
") targetto=scp ;;
esac
case "$targetfrom" in
") targetfrom=scp ;;
esac
run=$run-$targetrun
to=$to-$targetto
from=$from-$targetfrom
case "$targetdir" in
")  targetdir=/tmp
    echo "Guessing targetdir $targetdir."
>&4
    ;;
esac
case "$targetuser" in
")  targetuser=root
    echo "Guessing targetuser $targetuser." >&4
    ;;
esac
case "$targetport" in
")  targetport=22
    echo "Guessing targetport $targetport." >&4
    ;;
esac
case "$targetfrom" in
scp) q=-q ;;
*) q=" ;;
esac
case "$targetrun" in
ssh|rsh)
   cat >$run <<EOF
```

```
#!/bin/sh
env=''
case "\$1" in
-cwd)
 shift
 cwd=\$1
 shift
 ;;
esac
case "\$1" in
-env)
 shift
 env=\$1
 shift
 ;;
esac
case "\$cwd" in
'') cwd=$targetdir ;;
esac
exe=\$1
shift
$to \$exe
$targetrun -p $targetport -l $targetuser $targethost "cd \$cwd && \$env \$exe \$@"
EOF
    ;;
 adb)
    $touch $run
    ;;
 *)  echo "Unknown targetrun '$targetrun'" >&4
    exit 1
    ;;
 esac
 case "$targetmkdir" in
 */Cross/mkdir)
    cat >$targetmkdir <<EOF
#!/bin/sh
$targetrun -p $targetport -l $targetuser $targethost "mkdir -p \$@"
EOF
    $chmod a+rx $targetmkdir
    ;;
 *)  echo "Unknown targetmkdir '$targetmkdir'" >&4
    exit 1
    ;;
 esac
 case
 "$targetto" in
 scp|rcp)
    cat >$to <<EOF
```

```
#!/bin/sh
for f in \$@
do
 case "\$f" in
 /*)
   $targetmkdir \`dirname \$f\`
   $targetto -P $targetport -r $q \$f $targetuser@$targethost:\$f           2>/dev/null  || exit 1
   ;;
 *)
   $targetmkdir $targetdir/\`dirname \$f\`
   $targetto -P $targetport -r $q \$f $targetuser@$targethost:$targetdir/\$f 2>/dev/null || exit 1
   ;;
 esac
done
exit 0
EOF
     ;;
 cp) cat >$to <<EOF
#!/bin/sh
for f in \$@
do
 case "\$f" in
 /*)
   $mkdir -p $targetdir/\`dirname \$f\`
   $cp \$f $targetdir/\$f || exit 1
   ;;
 *)
   $targetmkdir $targetdir/\`dirname \$f\`
   $cp \$f $targetdir/\$f || exit 1
   ;;
 esac
done
exit 0
EOF
     ;;
 *)  echo "Unknown targetto '$targetto'" >&4
     exit 1
     ;;
 esac
 case "$targetfrom" in
 scp|rcp)
   cat >$from <<EOF
#!/bin/sh
for f in \$@
do
 $rm -f \$f
 $targetfrom -P $targetport $q $targetuser@$targethost:$targetdir/\$f . || exit 1
done
```

```
exit 0
EOF
    ;;
 cp) cat >$from <<EOF
#!/bin/sh
for
 f in \$@
do
 $rm -f \$f
 cp $targetdir/\$f . || exit 1
done
exit 0
EOF
    ;;
 *)  echo "Unknown targetfrom '$targetfrom'" >&4
    exit 1
    ;;
 esac
 if $test ! -f $run; then
    echo "Target 'run' script '$run' not found." >&4
 else
    $chmod a+rx $run
 fi
 if $test ! -f $to; then
    echo "Target 'to' script '$to' not found." >&4
 else
    $chmod a+rx $to
 fi
 if $test ! -f $from; then
    echo "Target 'from' script '$from' not found." >&4
 else
    $chmod a+rx $from
 fi
 if $test ! -f $run -o ! -f $to -o ! -f $from; then
    exit 1
 fi
 cat >&4 <<EOF
Using '$run' for remote execution,
and '$from' and '$to'
for remote file transfer.
EOF
 ;;
*) run="
 to=:
 from=:
 usecrosscompile="$undef"
 targetarch="
 ;;
```

```
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/Cross.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: yacc.U,v $
?RCS: Revision 3.0.1.1  1994/05/13  15:28:48  ram
?RCS: patch27: added byacc as another alternative (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:10:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:yacc yaccflags: Guess Myread Loc Oldconfig byacc bison cat test
?MAKE: -pick add $@ %<
?S:yacc:
?S: This variable holds the name of the compiler compiler we
?S: want to use in the Makefile. It can be yacc, byacc, or bison -y.
?S:.
?S:yaccflags:
?S: This variable contains any
 additional yacc flags desired by the
?S: user.  It is up to the Makefile to use this.
?S:.
?T:comp
: determine compiler compiler
echo " "
comp='yacc'
if $test -f "$byacc$_exe"; then
 comp="byacc or $comp"
fi
if $test -f "$bison$_exe"; then
 comp="$comp or bison -y"
fi
case "$yacc" in
")
 yacc=`./loc yacc yacc $pth`
```

```
 if $test -f "$yacc$_exe"; then
  dflt='yacc'
 elif $test -f "$byacc$_exe"; then
  dflt='byacc'
 elif $test -f "$bison$_exe"; then
  dflt='bison'
 else
  dflt=''
 fi
 ;;
*) dflt="$yacc";;
esac
rp="Which compiler compiler ($comp) shall I use?"
. ./myread
yacc="$ans"
case "$yacc" in
*bis*)
 case "$yacc" in
 *-y*) ;;
 *)
  yacc="$yacc -y"
  echo "(Adding -y option to bison to get yacc-compatible behaviour.)"
  ;;
 esac
 ;;
esac

@if yaccflags
: see if we need extra yacc flags
dflt="$yaccflags"
case "$dflt" in
'') dflt=none;;
esac
$cat <<EOH

Your yacc program may need extra flags to normally process the parser sources.
Do NOT specify any -d or -v flags here, since those are
 explicitly known
by the various Makefiles. However, if your machine has strange/undocumented
options (like -Sr# on SCO to specify the maximum number of grammar rules), then
please add them here.  To use no flags, specify the word "none".

EOH
rp="Any additional yacc flags?"
. ./myread
case "$ans" in
none) yaccflags='';;
*) yaccflags="$ans";;
```

```
esac

@end
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/yacc.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_casti32.U,v $
?RCS: Revision 3.0.1.3  1995/05/12  12:10:45  ram
?RCS: patch54: made sure cc and ccflags are conditional dependencies
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:09:37  ram
?RCS: patch36: declare signal handler correctly (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:06  ram
?RCS: patch32: created by ADO
?RCS:
?X:
?X: Can the compiler cast large floats to 32-bit integers?
?X:
?MAKE:d_casti32: cat
 +cc +ccflags rm_try intsize Setvar test signal_t
?MAKE: -pick add $@ %<
?S:d_casti32:
?S: This variable conditionally defines CASTI32, which indicates
?S: whether the C compiler can cast large floats to 32-bit ints.
?S:.
?C:CASTI32:
?C: This symbol is defined if the C compiler can cast negative
?C: or large floating point numbers to 32-bit ints.
?C:.
?T:xxx yyy
?H:#$d_casti32 CASTI32  /**/
?H:.
```

```
?F:!try
?LINT:set d_casti32
: check for ability to cast large floats to 32-bit ints.
echo " "
echo 'Checking whether your C compiler can cast large floats to int32.' >&4
if $test "$intsize" -eq 4; then
 xxx=int
else
 xxx=long
fi
$cat >try.c <<EOCP
#include <sys/types.h>
#include <signal.h>
$signal_t blech() { exit(3); }
int main()
{
 $xxx i32;
 double f;
 int result = 0;
 signal(SIGFPE, blech);

 f = (double) 0x7fffffff;
 f = 10 * f;
 i32  = ($xxx) f;

 if (i32 != ($xxx) f)
  result |= 1;
 exit(result);
}
EOCP
if $cc $ccflags -o try try.c >/dev/null 2>&1; then
 ./try
 yyy=$?
else
 echo "(I can't
 seem to compile the test program--assuming it can't)"
 yyy=1
fi
case "$yyy" in
0) val="$define"
 echo "Yup, it can."
 ;;
*) val="$undef"
 echo "Nope, it can't."
 ;;
esac
set d_casti32
eval $setvar
```

```
$rm_try

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_casti32.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: vendorscript.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorscript.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:d_vendorscript vendorscript vendorscriptexp installvendorscript: Getfile \
 vendorbin cat Setprefixvar Oldconfig Prefixit test vendorprefix
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorscript:
?S: This variable contains the eventual value of the VENDORSCRIPT symbol.
?S: It may have a ~ on the front.
?S: The standard distribution will put nothing in this
 directory.
?S: Vendors who distribute perl may wish to place additional
?S: executable scripts in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorscriptexp:
?S: This variable is the ~name expanded version of vendorscript, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorscript="
?S:installvendorscript:
?S: This variable is really the same as vendorscriptexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?S:d_vendorscript:
?S: This variable conditionally defines PERL_VENDORSCRIPT.
?S:.
```

```
?C:PERL_VENDORSCRIPT:
?C: If defined, this symbol contains the name of a directory
?C: for holding vendor-supplied executable scripts.
?C: It may have a ~ on the front.
?C: The standard distribution will put nothing in this directory.
?C: Vendors who distribute perl may wish to place additional
?C: executable
 scripts in this directory with
?C:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?C: or equivalent.  See INSTALL for details.
?C:.
?C:PERL_VENDORSCRIPT_EXP:
?C: This symbol contains the ~name expanded version of VENDORSCRIPT, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#$d_vendorscript PERL_VENDORSCRIPT "$vendorscript"  /**/
?H:#$d_vendorscript PERL_VENDORSCRIPT_EXP "$vendorscriptexp"  /**/
?H:.
?LINT:change prefixvar
?LINT:set installvendorscript
: Set the vendorscript variables
case "$vendorprefix" in
") d_vendorscript="$undef"
 vendorscript="
 vendorscriptexp="
 ;;
*) d_vendorscript="$define"
 : determine where vendor-supplied scripts go.
 case "$vendorscript" in
 ") dflt=$vendorprefix/script
  $test -d $dflt || dflt=$vendorbin ;;
 *)  dflt="$vendorscript" ;;
 esac
 $cat <<EOM

The installation process will create a directory for
vendor-supplied scripts.

EOM
 fn=d~+
 rp='Pathname for the vendor-supplied scripts directory?'
 . ./getfile
 vendorscript="$ans"
 vendorscriptexp="$ansexp"
 ;;
esac
prefixvar=vendorscript
.
```

./installprefix

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/vendorscript.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Csym.U,v $
?RCS: Revision 3.0.1.4  1995/07/25  13:36:29  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS: patch56: added quotes for OS/2 support
?RCS:
?RCS: Revision 3.0.1.3  1995/05/12  12:00:33  ram
?RCS: patch54: fixed C test program to bypass gcc builtin type checks (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/10/31  09:34:13  ram
?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:00:05  ram
?RCS:
 patch6: added ldflags as a conditional dependency and to compile line
?RCS: patch6: a final double quote was missing in csym variable after eval
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:Csym: Options contains libc libs runnm +cc +ccflags +ldflags rm
?MAKE: -pick add $@ %<
?LINT:define csym
?LINT:use libc
?S:csym:
?S: This shell variable is used internally by Configure to check
?S: wether a given C symbol is defined or not. A typical use is:
?S:  set symbol result [-fva] [previous]
?S:  eval $csym
?S: That will set result to 'true' if the function [-f], variable [-v]
?S: or array [-a] is defined, 'false' otherwise. If a previous value is
?S: given and the -r flag was provided on the command line, that value
```

```
?S: is reused without questioning.
?S:.
?V:csym
?T:tval tx tlook tf tdc tc
: is a C symbol defined?
csym='tlook=$1;
case "$3" in
-v) tf=libc.tmp; tc=""; tdc="";;
-a) tf=libc.tmp; tc="[0]"; tdc="[]";;
*) tlook="^$1\$";
 tf=libc.list; tc=""; tdc="()";;
esac;
tx=yes;
case "$reuseval-$4" in
true-) ;;
true-*) tx=no; eval "tval=\$$4"; case "$tval" in "") tx=yes;; esac;;
esac;
case "$tx" in
yes)
 case "$runnm" in
 true)
  if $contains $tlook $tf >/dev/null 2>&1;
  then tval=true;
  else tval=false;
  fi;;
 *)
?X:
?X: We use 'char' instead of 'int' to try to circumvent overzealous
?X: optimizing compilers using built-in prototypes for commonly used
?X: routines to complain when seeing a different external declaration. For
?X: instance, gcc 2.6.3 fails if we use 'int' and we attempt a test against
?X: memcpy() on machines where sizeof(int) == sizeof(char *) (the usual return
?X: type), the compiler assuming it's a built-in declaration given that the
?X: returned size matches. At least with 'char' we are safe! -- RAM, for ADO
?X:
?X: Let's thank GNU cc for making our lifes so easy! :-)
?X: (An alternative for the future would be to use our knowledge about gcc
?X: to force a -fno-builtin option in the
 compile test, in case the 'char'
?X: trick is obsoleted by future gcc releases). -- RAM
?X:
?X: Lastly, gcc 3.4 otimizes &missing == 0 away, so we use + 2 instead now.
?X: The GNU folks like to do weird things, don't they? -- RAM, 2004-06-05
?X:
  echo "extern char $1$tdc; int main() { return &$1$tc + 2; }" > t.c;
  if $cc $ccflags $ldflags -o t t.c $libs >/dev/null 2>&1;
  then tval=true;
  else tval=false;
```

```
  fi;
  $rm -f t t.c;;
 esac;;
*)
 case "$tval" in
 $define) tval=true;;
 *) tval=false;;
 esac;;
esac;
eval "$2=$tval"'
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Csym.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: archname.U,v 3.0.1.3 1997/02/28 15:24:32 ram Exp $
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: archname.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:24:32  ram
?RCS: patch61: changed the way the archname is mangled from uname
?RCS:
?RCS: Revision 3.0.1.2  1995/05/12  12:05:24  ram
?RCS: patch54: protect against spaces in "uname -m" output (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1995/02/15  14:14:21  ram
?RCS: patch51: created
?RCS:
?MAKE:archname myarchname useversionedarchname: sed Loc Myread Oldconfig \
 osname test rm usethreads usemultiplicity use64bitint
 use64bitall \
 archname64 uselongdouble longdblsize doublesize targetarch Setvar \
 api_versionstring usequadmath
?MAKE: -pick add $@ %<
?S:archname:
?S: This variable is a short name to characterize the current
?S: architecture.  It is used mainly to construct the default archlib.
?S:.
?S:myarchname:
?S: This variable holds the architecture name computed by Configure in
```

```
?S: a previous run. It is not intended to be perused by any user and
?S: should never be set in a hint file.
?S:.
?S:useversionedarchname:
?S: This variable indicates whether to include the $api_versionstring
?S: as a component of the $archname.
?S:.
?C:ARCHNAME:
?C: This symbol holds a string representing the architecture name.
?C: It may be used to construct an architecture-dependant pathname
?C: where library files may be held under a private library, for
?C: instance.
?C:.
?H:#define ARCHNAME "$archname"  /**/
?H:.
?T:xxx tarch
?F:!archname.cbu
?INIT:archname=''
: determine the architecture name
echo " "
?X:
 We always recompute archname in case osname changes. However, we need
?X: to be careful since, as ADO rightfully pointed out, some systems pick
?X: silly architecture names (0001307135000-aix on AIX or 9000/715-ux under
?X: HP-UX). Therefore, we allow hint files to superseed our guess and ask
?X: the user for confirmation.
if xxx=`./loc arch blurfl $pth`; $test -f "$xxx"; then
 tarch=`arch`"-$osname"
elif xxx=`./loc uname blurfl $pth`; $test -f "$xxx" ; then
 if uname -m > tmparch 2>&1 ; then
  tarch=`$sed -e 's/ *$//' -e 's/ /_/g' \
   -e 's/$/'"-$osname/" tmparch`
 else
  tarch="$osname"
 fi
 $rm -f tmparch
else
 tarch="$osname"
fi
case "$myarchname" in
"|"$tarch") ;;
*)
 echo "(Your architecture name used to be $myarchname.)"
 archname=''
 ;;
esac
case "$targetarch" in
'') ;;
```

```
?X: Very GCCian.
*)  archname=`echo $targetarch|sed 's,^[^-]*-,,'` ;;
esac
myarchname="$tarch"
case "$archname" in
") dflt="$tarch";;
*) dflt="$archname";;
esac
rp='What is your architecture name'
. ./myread
archname="$ans"

:
 optionally add API version to the architecture for versioned archlibs
case "$useversionedarchname" in
$define|true|[yY]*) dflt='y';;
*)                  dflt='n';;
esac
rp='Add the Perl API version to your archname?'
. ./myread
case "$ans" in
y|Y) useversionedarchname="$define" ;;
*)      useversionedarchname="$undef" ;;
esac
case "$useversionedarchname" in
$define)
 case "$archname" in
 *-$api_versionstring)
  echo "...and architecture name already has -$api_versionstring" >&4
  ;;
 *)
  archname="$archname-$api_versionstring"
  echo "...setting architecture name to $archname." >&4
  ;;
 esac
 ;;
esac

@if usethreads
case "$usethreads" in
$define)
 echo "Threads selected." >&4
 case "$archname" in
 *-thread*) echo "...and architecture name already has -thread." >&4
  ;;
 *)      archname="$archname-thread"
  echo "...setting architecture name to $archname." >&4
  ;;
```

```
 esac
 ;;
esac
@end
@if usemultiplicity
case "$usemultiplicity" in
$define)
 echo "Multiplicity selected."
 >&4
 case "$archname" in
 *-multi*) echo "...and architecture name already has -multi." >&4
  ;;
 *)      archname="$archname-multi"
  echo "...setting architecture name to $archname." >&4
  ;;
 esac
 ;;
esac
@end
@if use64bitint
case "$use64bitint$use64bitall" in
*"$define"*)
 case "$archname64" in
 ")
  echo "This architecture is naturally 64-bit, not changing architecture name." >&4
  ;;
 *)
  case "$use64bitint" in
  "$define") echo "64 bit integers selected." >&4 ;;
  esac
  case "$use64bitall" in
  "$define") echo "Maximal 64 bitness selected." >&4 ;;
  esac
  case "$archname" in
  *-$archname64*) echo "...and architecture name already has $archname64." >&4
   ;;
  *)      archname="$archname-$archname64"
   echo "...setting architecture name to $archname." >&4
   ;;
  esac
  ;;
 esac
esac
@end
@if uselongdouble
case "$uselongdouble" in
$define)
 echo "Long doubles selected." >&4
```

```
 case "$longdblsize" in
 $doublesize)
  echo "...but long doubles are equal to doubles, not
 changing architecture name." >&4
  ;;
 *)
  case "$archname" in
  *-ld*) echo "...and architecture name already has -ld." >&4
   ;;
  *)      archname="$archname-ld"
   echo "...setting architecture name to $archname." >&4
   ;;
  esac
  ;;
 esac
 ;;
esac
@end
@if usequadmath
case "$usequadmath" in
$define)
 echo "quadmath selected." >&4
 case "$archname" in
 *-quadmath*) echo "...and architecture name already has -quadmath." >&4
  ;;
 *)      archname="$archname-quadmath"
  echo "...setting architecture name to $archname." >&4
  ;;
 esac
 ;;
esac
@end
if $test -f archname.cbu; then
 echo "Your platform has some specific hints for architecture name, using them..."
 . ./archname.cbu
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/archname.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_tcstpgrp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_tcstpgrp.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:12:11  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_tcsetpgrp: Inlibc
?MAKE: -pick add $@ %<
?S:d_tcsetpgrp:
?S: This variable conditionally defines the HAS_TCSETPGRP symbol, which
?S: indicates to the C program that the tcsetpgrp() routine is available
?S: to set foreground process group ID.
?S:.
?C:HAS_TCSETPGRP
 :
?C: This symbol, if defined, indicates that the tcsetpgrp routine is
?C: available to set foreground process group ID.
?C:.
?H:#$d_tcsetpgrp HAS_TCSETPGRP  /**/
?H:.
?LINT:set d_tcsetpgrp
: see if tcsetpgrp exists
set tcsetpgrp d_tcsetpgrp
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_tcstpgrp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Chk_whoami.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Chk_whoami.U,v $
?RCS: Revision 3.0  1993/08/18  12:04:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?X:
?X: This unit makes sure we don't try to include whoami.h if uname() exists.
?X:
?MAKE:Chk_whoami: d_uname i_whoami
?MAKE: -pick add $@ %<
?LINT:change i_whoami
: weed out incompatibilities
case "$d_uname" in
 "$define") i_whoami="$undef" ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Chk_whoami.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: lns.U,v 3.0.1.1 1994/06/20 07:05:52 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: lns.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  07:05:52  ram
?RCS: patch30: created by ADO
?RCS:
?X:
?X: This unit checks whether symbolic links are really supported.
?X: We can't rely on d_symlink because that may be listed in the
?X: C library but unimplemented.
?X:
?MAKE:lns: ln rm touch
?MAKE: -pick add $@ %<
?S:lns:
?S: This variable holds the name of the command to make
?S: symbolic
 links (if they are supported).  It can be used
?S: in the Makefile. It is either 'ln -s' or 'ln'
?S:.
: determine whether symbolic links are supported
echo " "
$touch blurfl
```

```
if $ln -s blurfl sym > /dev/null 2>&1 ; then
 echo "Symbolic links are supported." >&4
 lns="$ln -s"
else
 echo "Symbolic links are NOT supported." >&4
 lns="$ln"
fi
$rm -f blurfl sym
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/lns.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_grp.U,v 3.0 1993/08/18 12:08:20 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: GRPASSWD detection added by Andy Dougherty  July 14, 1998.
?RCS:
?RCS: $Log: i_grp.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:20  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_grp d_grpasswd: \
 contains rm cppstdin cppflags cppminus Inhdr Findhdr Setvar
?MAKE: -pick add $@ %<
?S:i_grp:
?S: This variable conditionally defines the I_GRP symbol, and indicates
?S: whether a C program should include <grp.h>.
?S:.
?S:d_grpasswd:
?S: This variable conditionally
 defines GRPASSWD, which indicates
?S: that struct group in <grp.h> contains gr_passwd.
?S:.
?C:I_GRP:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <grp.h>.
?C:.
?C:GRPASSWD:
?C: This symbol, if defined, indicates to the C program that struct group
```

```
?C: in <grp.h> contains gr_passwd.
?C:.
?H:#$i_grp I_GRP  /**/
?H:#$d_grpasswd GRPASSWD /**/
?H:.
?LINT:set i_grp d_grpasswd
?T: xxx
: see if this is an grp system
set grp.h i_grp
eval $inhdr

case "$i_grp" in
$define)
 xxx=`./findhdr grp.h`
 $cppstdin $cppflags $cppminus < $xxx >$$.h

 if $contains 'gr_passwd' $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_grpasswd
 eval $setvar

 $rm -f $$.h
 ;;
*)
 val="$undef";
 set d_grpasswd; eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_grp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2008 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:sGMTIME_max sGMTIME_min sLOCALTIME_max sLOCALTIME_min: cat rm_try \
 Setvar Compile run
?MAKE: -pick add $@ %<
?S:sGMTIME_max:
```

```
?S: This variable defines the maximum value of the time_t offset that
?S: the system function gmtime () accepts
?S:.
?S:sGMTIME_min:
?S: This variable defines the minimum value of the time_t offset that
?S: the system function gmtime () accepts
?S:.
?S:sLOCALTIME_max:
?S: This variable defines the maximum value of the time_t offset that
?S: the system function localtime () accepts
?S:.
?S:sLOCALTIME_min:
?S: This variable defines the minimum value of the time_t offset that
?S: the system function localtime () accepts
?S:.
?C:GMTIME_MAX:
?C: This symbol contains the maximum value
 for the time_t offset that
?C: the system function gmtime () accepts, and defaults to 0
?C:.
?C:GMTIME_MIN:
?C: This symbol contains the minimum value for the time_t offset that
?C: the system function gmtime () accepts, and defaults to 0
?C:.
?C:LOCALTIME_MAX:
?C: This symbol contains the maximum value for the time_t offset that
?C: the system function localtime () accepts, and defaults to 0
?C:.
?C:LOCALTIME_MIN:
?C: This symbol contains the minimum value for the time_t offset that
?C: the system function localtime () accepts, and defaults to 0
?C:.
?H:#define GMTIME_MAX  $sGMTIME_max /**/
?H:#define GMTIME_MIN  $sGMTIME_min /**/
?H:#define LOCALTIME_MAX $sLOCALTIME_max /**/
?H:#define LOCALTIME_MIN $sLOCALTIME_min /**/
?H:.
?D:sGMTIME_max=0
?D:sGMTIME_min=0
?D:sLOCALTIME_max=0
?D:sLOCALTIME_min=0
?F:!try
: Check the max offset that gmtime and localtime accept
echo "Checking max offsets that gmtime () accepts"

case "$sGMTIME_min/$sGMTIME_max" in
   0/0|/)
 $cat >try.c <<EOCP
```

```
#include
 <sys/types.h>
#include <stdio.h>
#include <time.h>

int i;
struct tm *tmp;
time_t pt;

void gm_check (time_t t, int min_year, int max_year)
{
   tmp = gmtime (&t);
   if ( tmp == NULL ||
 /* Check tm_year overflow */
  tmp->tm_year < min_year || tmp->tm_year > max_year)
 tmp = NULL;
   else
 pt = t;
   } /* gm_check */

int check_max ()
{
   tmp = NULL;
   pt  = 0;
#ifdef MAXLONG
   gm_check (MAXLONG, 69, 0x7fffffff);
#endif
   if (tmp == NULL || tmp->tm_year < 0) {
 for (i = 63; i >= 0; i--) {
     time_t x = pt | ((time_t)1 << i);
     if (x < 0 || x < pt) continue;
     gm_check (x, 69, 0x7fffffff);
     }
 }
   printf ("sGMTIME_max=%ld\n", pt);
   return (0);
   } /* check_max */

int check_min ()
{
   tmp = NULL;
   pt  = 0;
#ifdef MINLONG
   gm_check (MINLONG, -1900, 70);
#endif
   if (tmp == NULL) {
 for (i = 36; i >= 0; i--) {
     time_t x = pt - ((time_t)1 << i);
```

```
    if (x > 0) continue;
    gm_check (x, -1900, 70);
    }
 }
  printf ("sGMTIME_min=%ld\n",
 pt);
  return (0);
  } /* check_min */

int main (int argc, char *argv[])
{
  /* fprintf (stderr, "Sizeof time_t = %ld\n", sizeof (time_t)); */
  check_max ();
  check_min ();
  return (0);
  } /* main */
EOCP
 set try
 if eval $compile; then
    eval `$run ./try 2>/dev/null`
 else
    echo "Cannot determine sGMTIME_max and sGMTIME_min." >&4
    fi
 $rm_try
 ;;
  esac

echo "Checking max offsets that localtime () accepts"

case "$sLOCALTIME_min/$sLOCALTIME_max" in
  0/0|/)
 $cat >try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#include <time.h>

int i;
struct tm *tmp;
time_t pt;

void local_check (time_t t, int min_year, int max_year)
{
  if (sizeof (time_t) > 4 && t > 0x7fffffffffff000LL)
 tmp = NULL;
  else
 tmp = localtime (&t);
  if ( tmp == NULL ||
 /* Check tm_year overflow */
```

```
  tmp->tm_year < min_year || tmp->tm_year > max_year)
 tmp = NULL;
   else
 pt = t;
   } /* local_check */

int check_max ()
{
   tmp = NULL;
   pt  = 0;
#ifdef
 MAXLONG
   local_check (MAXLONG, 69, 0x7fffffff);
#endif
   if (tmp == NULL || tmp->tm_year < 0) {
 for (i = 63; i >= 0; i--) {
     time_t x = pt | ((time_t)1 << i);
     if (x < 0 || x < pt) continue;
     local_check (x, 69, 0x7fffffff);
     }
 }
   printf ("sLOCALTIME_max=%ld\n", pt);
   return (0);
  } /* check_max */

int check_min ()
{
   tmp = NULL;
   pt  = 0;
#ifdef MINLONG
   local_check (MINLONG, -1900, 70);
#endif
   if (tmp == NULL) {
 for (i = 36; i >= 0; i--) {
     time_t x = pt - ((time_t)1 << i);
     if (x > 0) continue;
     local_check (x, -1900, 70);
     }
 }
   printf ("sLOCALTIME_min=%ld\n", pt);
   return (0);
   } /* check_min */

int main (int argc, char *argv[])
{
   check_max ();
   check_min ();
   return (0);
```

```
  } /* main */
EOCP
 set try
 if eval $compile; then
    eval `$run ./try 2>/dev/null`
 else
    echo "Cannot determine sLOCALTIME_max and sLOCALTIME_min." >&4
    fi
 $rm_try
 ;;
  esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/time_size.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setrgid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setrgid.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setrgid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setrgid:
?S: This variable conditionally defines the HAS_SETRGID symbol, which
?S: indicates to the C program that the setrgid() routine is available
?S: to change the real gid of the current program.
?S:.
?C:HAS_SETRGID (SETRGID):
?C: This symbol, if defined, indicates that the setrgid
 routine is available
?C: to change the real gid of the current program.
?C:.
?H:#$d_setrgid HAS_SETRGID  /**/
?H:.
?LINT:set d_setrgid
: see if setrgid exists
set setrgid d_setrgid
```

```
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setrgid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_mprotect: Inlibc
?MAKE: -pick add $@ %<
?S:d_mprotect:
?S: This variable conditionally defines HAS_MPROTECT if mprotect() is
?S: available to modify the access protection of a memory mapped file.
?S:.
?C:HAS_MPROTECT:
?C: This symbol, if defined, indicates that the mprotect system call is
?C: available to modify the access protection of a memory mapped file.
?C:.
?H:#$d_mprotect HAS_MPROTECT  /**/
?H:.
?LINT:set d_mprotect
: see if mprotect exists
set mprotect d_mprotect
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_mprotect.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: d_keepsig.U,v $
?RCS: Revision 3.0.1.4  1995/07/25  13:57:56  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:26:25  ram
?RCS: patch45: protected "sh -c" within backquotes for Linux and SGI
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:13:59  ram
?RCS: patch36: call ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.1  1993/10/16  13:48:47  ram
?RCS: patch12: comment for SIGNALS_KEPT was the other way round
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:06:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_keepsig: cat Compile rm Guess contains echo n c Setvar run
?MAKE: -pick add $@ %<
?S:d_keepsig:
?S: This variable contains the eventual value of the SIGNALS_KEPT symbol,
?S: which indicates to the C program if signal handlers need not reinstated
?S: after receipt of a signal.
?S:.
?C:SIGNALS_KEPT (PERSISTENT_SIGNAL):
?C: This symbol is defined if signal handlers needn't be reinstated after
?C: receipt of a signal.
?C:.
?H:#$d_keepsig SIGNALS_KEPT /**/
?H:.
?F:!try !try.out
?LINT:set d_keepsig
: see if signals are kept
val="$undef";
echo " "
echo "Checking to see if signal handlers stick around..." >&4
$cat >try.c <<'EOCP'
foo() {}

int main()
{
 signal(2, foo);
 kill(getpid(), 2);
 kill(getpid(), 2);
 printf("abc\n");
}
EOCP
```

```
set try
if eval $compile_ok; then
?X: On AIX a single ./try will not work (with ksh)
?X: Backquotes required on Linux and SGI (prevents "ambiguous output redirect")
?X:
 (reported by Xavier LeVourch <xavierl@eiffel.com>)
 `sh -c $run ./try >try.out 2>/dev/null`
 if $contains abc try.out >/dev/null 2>&1; then
  echo "Yes, they do."
  val="$define";
 else
  echo "No, they don't."
 fi
else
 $echo $n "(I can't seem to compile the test program. Assuming $c"
 if ./bsd; then
  echo "they do.)"
  val="$define"
 else
  echo "they don't.)"
 fi
fi
set d_keepsig
eval $setvar
$rm -f try*
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_keepsig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: pager.U,v $
?RCS: Revision 3.0.1.2  1995/01/30  14:41:26  ram
?RCS: patch49: ensure dflt gets initialized in case no pagers are found (WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:27:45  ram
?RCS: patch36: replaced Myread by Getfile in the dependency line
?RCS:
```

```
?RCS: Revision 3.0  1993/08/18  12:09:30  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:pager: pg more less Getfile Oldconfig
?MAKE: -pick add $@ %<
?S:pager:
?S: This variable contains the name of the preferred pager
 on the system.
?S: Usual values are (the full pathnames of) more, less, pg, or cat.
?S:.
: locate the preferred pager for this system
fn=f/
case "$pager" in
")
 dflt="
 case "$pg" in
 /*) dflt=$pg;;
 [a-zA-Z]:/*) dflt=$pg;;
 esac
 case "$more" in
 /*) dflt=$more;;
 [a-zA-Z]:/*) dflt=$more;;
 esac
 case "$less" in
 /*) dflt=$less;;
 [a-zA-Z]:/*) dflt=$less;;
 esac
 case "$dflt" in
 ") dflt=/usr/ucb/more;;
 esac
 ;;
*) dflt="$pager"
 ;;
esac
?X: Instruct ./getfile to trust the default pager value,
?X: even if it does not begin with a slash.  For example, on os2,
?X: pager might be cmd /c more.  Also, it might include some options,
?X: such as '/usr/bin/less -R'.  ./getfile would report that
?X: "/usr/bin/less -R" doesn't exist.
?X: See comments in Getfile.U.
fn="f/($dflt)"
echo " "
rp='What pager is used on your system?'
. ./getfile
pager="$ans"
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/dist/U/pager.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_shadow.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_shadow: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_shadow:
?S: This variable conditionally defines the I_SHADOW symbol, and indicates
?S: whether a C program should include <shadow.h>.
?S:.
?C:I_SHADOW:
?C: This symbol, if defined, indicates that <shadow.h> exists and
?C: should be included.
?C:.
?H:#$i_shadow I_SHADOW  /**/
?H:.
?LINT:set i_shadow
: see if this is a shadow.h system
set shadow.h i_shadow
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_shadow.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getnetent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getnetent_r getnetent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getnetent_r:
?S: This variable conditionally defines the HAS_GETNETENT_R symbol,
?S: which indicates to the C program that the getnetent_r()
?S: routine is available.
?S:.
```

```
?S:getnetent_r_proto:
?S: This variable encodes the prototype of getnetent_r.
?S: It is zero if d_getnetent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getnetent_r
?S: is defined.
?S:.
?C:HAS_GETNETENT_R:
?C: This symbol, if defined, indicates that the getnetent_r routine
?C: is
 available to getnetent re-entrantly.
?C:.
?C:GETNETENT_R_PROTO:
?C: This symbol encodes the prototype of getnetent_r.
?C: It is zero if d_getnetent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getnetent_r
?C: is defined.
?C:.
?H:#$d_getnetent_r HAS_GETNETENT_R /**/
?H:#define GETNETENT_R_PROTO $getnetent_r_proto /**/
?H:.
?T:try hdrs d_getnetent_r_proto
: see if getnetent_r exists
set getnetent_r d_getnetent_r
eval $inlibc
case "$d_getnetent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getnetent_r_proto:$usethreads" in
 ":define") d_getnetent_r_proto=define
  set d_getnetent_r_proto getnetent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getnetent_r_proto" in
 define)
 case "$getnetent_r_proto" in
 "|0) try='int getnetent_r(struct netent*, char*, size_t, struct netent**, int*);'
 ./protochk "$extern_C $try" $hdrs && getnetent_r_proto=I_SBWRE ;;
 esac
 case "$getnetent_r_proto" in
 "|0) try='int getnetent_r(struct
 netent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && getnetent_r_proto=I_SBIE ;;
 esac
 case "$getnetent_r_proto" in
 "|0) try='struct netent* getnetent_r(struct netent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && getnetent_r_proto=S_SBIE ;;
 esac
```

```
 case "$getnetent_r_proto" in
 "|0) try='struct netent* getnetent_r(struct netent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getnetent_r_proto=S_SBI ;;
 esac
 case "$getnetent_r_proto" in
 "|0) try='int getnetent_r(struct netent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getnetent_r_proto=I_SBI ;;
 esac
 case "$getnetent_r_proto" in
 "|0) try='int getnetent_r(struct netent*, struct netent_data*);'
 ./protochk "$extern_C $try" $hdrs && getnetent_r_proto=I_SD ;;
 esac
 case "$getnetent_r_proto" in
 "|0) d_getnetent_r=undef
  getnetent_r_proto=0
  echo "Disabling getnetent_r, cannot determine prototype." >&4 ;;
 * ) case "$getnetent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getnetent_r_proto="REENTRANT_PROTO_$getnetent_r_proto"
 ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getnetent_r has no prototype, not using it." >&4 ;;
  esac
  d_getnetent_r=undef
  getnetent_r_proto=0
  ;;
 esac
 ;;
*) getnetent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getnetent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_portable.U,v 3.0.1.2 1995/01/11 15:28:52 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
```

```
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_portable.U,v $
?RCS: Revision 3.0.1.2  1995/01/11  15:28:52  ram
?RCS: patch45: executable path stripping moved to the end in Config_sh.U
?RCS:
?RCS: Revision 3.0.1.1  1993/12/15  08:21:17  ram
?RCS: patch15: did not strip variables properly when needed
?RCS: patch15: now also strips down variables from trylist
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
   This is the same as the dist version, except I don't bother
?X:   prompting people since it makes no difference for perl5,
?X:   and only confuses people.
?X:
?X: The Loc unit is wanted to get the definition of all the locating variables.
?X:
?MAKE:d_portable: Loc Oldconfig
?MAKE: -pick add $@ %<
?S:d_portable:
?S: This variable conditionally defines the PORTABLE symbol, which
?S: indicates to the C program that it should not assume that it is
?S: running on the machine it was compiled on.
?S:.
?C:PORTABLE:
?C: This symbol, if defined, indicates to the C program that it should
?C: not assume that it is running on the machine it was compiled on.
?C: The program should be prepared to look up the host name, translate
?C: generic filenames, use PATH, etc.
?C:.
?H:#$d_portable PORTABLE /**/
?H:.
?D:d_portable="
: decide how portable to be.  Allow command line overrides.
case "$d_portable" in
"$undef") ;;
*) d_portable="$define" ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_portable.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_SHM_MAC.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_SHM_MAC.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:41  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_SHM_MAC d_SHM_PRM d_SHM_SEG d_SHM_IMMU: cat d_shm test rm +cc +ccflags
?MAKE: -pick add $@ %<
?S:d_SHM_MAC:
?S: Sometimes, the SHMLBA manifest needs sys/sysmacros.h, usually for
?S: the ctob() macro.
?S:.
?S:d_SHM_PRM:
?S: Sometimes, the SHMLBA manifest needs sys/param.h, usually for the
?S: NBPC constant.
?S:.
?S:d_SHM_SEG:
?S: Sometimes,
 the SHMLBA manifest needs sys/seg.h, usually for the
?S: SNUMSHFT constant.
?S:.
?S:d_SHM_IMMU:
?S: Sometimes, the SHMLBA manifest needs sys/immu.h, usually for the
?S: stob() macro.
?S:.
?C:SHMLBA_WANTS_SYSMACROS:
?C: This value tells us to include <sys/sysmacros.h> because SHMLBA
?C: needs something from there, probably the ctob() macro.
?C:.
?C:SHMLBA_WANTS_PARAM:
?C: This value tells us to include <sys/param.h> because SHMLBA needs
?C: something from there, probably the NBPC constant.
?C:.
?C:SHMLBA_WANTS_SEG:
?C: This value tells us to include <sys/seg.h> because SHMLBA needs
?C: something from there, probably the SNUMSHFT constant.
?C:.
?C:SHMLBA_WANTS_IMMU:
```

```
?C: This value tells us to include <sys/immu.h> because SHMLBA needs
?C: something from there, probably the stob() macro.  (tower_600 only?)
?C:.
?H:#$d_SHM_MAC SHMLBA_WANTS_SYSMACROS /* SHMLBA wants ctob()? */
?H:#$d_SHM_PRM SHMLBA_WANTS_PARAM /* SHMLBA wants NBPC? */
?H:#$d_SHM_SEG SHMLBA_WANTS_SEG /* SHMLBA wants
 SNUMSHFT? */
?H:#$d_SHM_IMMU SHMLBA_WANTS_IMMU /* SHMLBA wants stob()? */
?H:.
?T:flags D_sys_immu D_sys_seg D_sys_sysmacros D_sys_param
: check for SHMLBA braindamage
d_SHM_MAC="$undef"
d_SHM_PRM="$undef"
d_SHM_SEG="$undef"
d_SHM_IMMU="$undef"
if $test "$d_shm" = "$define" ; then
 echo " "
 $cat >&4 <<EOM
Checking to see if SHMLBA needs additional headers.
The headers I'll be checking are:

   sys/macros.h (for the ctob() macro)
   sys/param.h  (for NBPC)
   sys/seg.h    (for SNUMSHFT)
   sys/immu.h  (for the stob() macro)

EOM
 $cat >shm_mac.c <<'EOCP'
#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/shm.h>
#ifdef I_SYS_IMMU
#include <sys/immu.h>
#endif
#ifdef I_SYS_SYSMACROS
#include <sys/sysmacros.h>
#endif
#ifdef I_SYS_PARAM
#include <sys/param.h>
#endif
#ifdef I_SYS_SEG
#include <sys/seg.h>
#endif

int main() {
 int foo = SHMLBA ;
 }
EOCP
```

```
flags='xxx'
for D_sys_immu in " '-DI_SYS_IMMU'; do
for D_sys_seg in " '-DI_SYS_SEG'; do
for D_sys_sysmacros in " '-DI_SYS_SYSMACROS';
do
for D_sys_param in " '-DI_SYS_PARAM'; do
 case "$flags" in
 'xxx')
  case "$D_sys_immu$D_sys_param$D_sys_sysmacros$D_sys_seg" in
  ")
   echo "Trying it normally..."
   ;;
  *)
  echo "Trying $D_sys_immu $D_sys_param $D_sys_sysmacros $D_sys_seg"
  ;;
  esac
  if $cc $ccflags \
  $D_sys_immu $D_sys_param $D_sys_sysmacros $D_sys_seg \
  -o shm_mac shm_mac.c >/dev/null 2>&1 ; then
   set X $D_sys_immu $D_sys_param $D_sys_sysmacros $D_sys_seg
   shift
   flags="$*"
   echo "Succeeded with $flags"
  fi
  ;;
 esac
done
done
done
done
case "$flags" in
xxx)
 echo "I don't know how to keep SHMLBA happy.  Good luck!"
 ;;
esac
case "$flags" in
*I_SYS_PARAM*) d_SHM_PRM="$define";;
esac
case "$flags" in
*I_SYS_SYSMACROS*) d_SHM_MAC="$define";;
esac
case "$flags" in
*I_SYS_SEG*) d_SHM_SEG="$define";;
esac
case "$flags" in
*I_SYS_IMMU*) d_SHM_IMMU="$define";;
esac
fi
```

```
$rm -f shm_mac*
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_SHM_MAC.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:need_va_copy: rm_try cat Compile run
?MAKE: -pick add $@ %<
?S:need_va_copy:
?S: This symbol, if defined, indicates that the system stores
?S: the variable argument list datatype, va_list, in a format
?S: that cannot be copied by simple assignment, so that some
?S: other means must be used when copying is required.
?S: As such systems vary in their provision (or non-provision)
?S: of copying mechanisms, handy.h defines a platform-
?S: independent macro, Perl_va_copy(src, dst), to do the job.
?S:.
?C:NEED_VA_COPY:
?C: This
 symbol, if defined, indicates that the system stores
?C: the variable argument list datatype, va_list, in a format
?C: that cannot be copied by simple assignment, so that some
?C: other means must be used when copying is required.
?C: As such systems vary in their provision (or non-provision)
?C: of copying mechanisms, handy.h defines a platform-
?C: independent macro, Perl_va_copy(src, dst), to do the job.
?C:.
?H:#$need_va_copy NEED_VA_COPY  /**/
?H:.
?T:okay
?F:!try
: see if we need va_copy
echo " "
$cat >try.c <<EOCP
#include <stdarg.h>
#include <stdio.h>
#include <stdlib.h>
```

```
#include <signal.h>

int
ivfprintf(FILE *f, const char *fmt, va_list *valp)
{
 return vfprintf(f, fmt, *valp);
}

int
myvfprintf(FILE *f, const  char *fmt, va_list val)
{
 return ivfprintf(f, fmt, &val);
}

int
myprintf(char *fmt, ...)
{
 va_list val;
 va_start(val, fmt);
 return myvfprintf(stdout, fmt, val);
}

int
main(int ac, char **av)
{
 signal(SIGSEGV, exit);
#ifdef SIGBUS
 signal(SIGBUS,
 exit);
#endif

 myprintf("%s%cs all right, then\n", "that", '\');
 exit(0);
}
EOCP
set try
if eval $compile && $run ./try 2>&1 >/dev/null; then
 case "`$run ./try`" in
 "that's all right, then")
  okay=yes
  ;;
 esac
fi
case "$okay" in
yes) echo "It seems that you don't need va_copy()." >&4
 need_va_copy="$undef"
 ;;
*) echo "It seems that va_copy() or similar will be needed." >&4
```

```
 need_va_copy="$define"
 ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/need_va_copy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_ndbm.U,v 3.0.1.1 1995/05/12 12:16:53 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: i_ndbm.U,v $
?RCS: Revision 3.0.1.1  1995/05/12  12:16:53  ram
?RCS: patch54: made more robust by checking both header and lib (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:23  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_ndbm i_gdbmndbm i_gdbm_ndbm d_ndbm d_ndbm_h_uses_prototypes \
 d_gdbmndbm_h_uses_prototypes d_gdbm_ndbm_h_uses_prototypes: \
    Inhdr Inlibc Setvar test d_cplusplus extern_C echo Protochk
?MAKE: -pick add $@ %<
?S:i_ndbm:
?S: This
 variable conditionally defines the I_NDBM symbol, which
?S: indicates to the C program that <ndbm.h> exists and should
?S: be included.
?S:.
?C:I_NDBM:
?C: This symbol, if defined, indicates that <ndbm.h> exists and should
?C: be included.
?C:.
?S:i_gdbmndbm:
?S: This variable conditionally defines the I_GDBMNDBM symbol, which
?S: indicates to the C program that <gdbm/ndbm.h> exists and should
?S: be included.  This was the location of the ndbm.h compatibility file
?S: in RedHat 7.1.
?S:.
?C:I_GDBMNDBM:
```

```
?C: This symbol, if defined, indicates that <gdbm/ndbm.h> exists and should
?C: be included.  This was the location of the ndbm.h compatibility file
?C: in RedHat 7.1.
?C:.
?S:i_gdbm_ndbm:
?S: This variable conditionally defines the I_GDBM_NDBM symbol, which
?S: indicates to the C program that <gdbm-ndbm.h> exists and should
?S: be included.  This is the location of the ndbm.h compatibility file
?S: in Debian 4.0.
?S:.
?C:I_GDBM_NDBM:
?C: This symbol, if defined, indicates
 that <gdbm-ndbm.h> exists and should
?C: be included.  This is the location of the ndbm.h compatibility file
?C: in Debian 4.0.
?C:.
?S:d_ndbm:
?S: This variable conditionally defines the HAS_NDBM symbol, which
?S: indicates that both the ndbm.h include file and an appropriate ndbm
?S: library exist.  Consult the different i_*ndbm variables
?S: to find out the actual include location.  Sometimes, a system has the
?S: header file but not the library.  This variable will only be set if
?S: the system has both.
?S:.
?C:HAS_NDBM:
?C: This symbol, if defined, indicates that some form of ndbm.h or compatibility
?C: include exists, along with the appropriate library.
?C:.
?S:d_ndbm_h_uses_prototypes:
?S: This variable conditionally defines the NDBM_H_USES_PROTOTYPES symbol,
?S: which indicates that the ndbm.h include file uses real ANSI C
?S: prototypes instead of K&R style function declarations. K&R style
?S: declarations are unsupported in C++, so the include file requires
?S: special handling
 when using a C++ compiler and this variable is
?S: undefined. Consult the different d_*ndbm_h_uses_prototypes variables
?S: to get the same information for alternative ndbm.h include files.
?S:.
?C:NDBM_H_USES_PROTOTYPES:
?C: This symbol, if defined, indicates that <ndbm.h> uses real ANSI C
?C: prototypes instead of K&R style function declarations without any
?C: parameter information. While ANSI C prototypes are supported in C++,
?C: K&R style function declarations will yield errors.
?C:.
?S:d_gdbmndbm_h_uses_prototypes:
?S: This variable conditionally defines the NDBM_H_USES_PROTOTYPES symbol,
?S: which indicates that the gdbm/ndbm.h include file uses real ANSI C
?S: prototypes instead of K&R style function declarations. K&R style
```

```
?S: declarations are unsupported in C++, so the include file requires
?S: special handling when using a C++ compiler and this variable is
?S: undefined. Consult the different d_*ndbm_h_uses_prototypes variables
?S: to get the same information for alternative
 ndbm.h include files.
?S:.
?C:GDBMNDBM_H_USES_PROTOTYPES:
?C: This symbol, if defined, indicates that <gdbm/ndbm.h> uses real ANSI C
?C: prototypes instead of K&R style function declarations without any
?C: parameter information. While ANSI C prototypes are supported in C++,
?C: K&R style function declarations will yield errors.
?C:.
?S:d_gdbm_ndbm_h_uses_prototypes:
?S: This variable conditionally defines the NDBM_H_USES_PROTOTYPES symbol,
?S: which indicates that the gdbm-ndbm.h include file uses real ANSI C
?S: prototypes instead of K&R style function declarations. K&R style
?S: declarations are unsupported in C++, so the include file requires
?S: special handling when using a C++ compiler and this variable is
?S: undefined. Consult the different d_*ndbm_h_uses_prototypes variables
?S: to get the same information for alternative ndbm.h include files.
?S:.
?C:GDBM_NDBM_H_USES_PROTOTYPES:
?C: This symbol, if defined, indicates that <gdbm-ndbm.h> uses real ANSI C
?C: prototypes
 instead of K&R style function declarations without any
?C: parameter information. While ANSI C prototypes are supported in C++,
?C: K&R style function declarations will yield errors.
?C:.
?H:#$i_ndbm I_NDBM /**/
?H:#$i_gdbmndbm I_GDBMNDBM /**/
?H:#$i_gdbm_ndbm I_GDBM_NDBM /**/
?H:#$d_ndbm HAS_NDBM /**/
?H:#$d_ndbm_h_uses_prototypes NDBM_H_USES_PROTOTYPES /**/
?H:#$d_gdbmndbm_h_uses_prototypes GDBMNDBM_H_USES_PROTOTYPES /**/
?H:#$d_gdbm_ndbm_h_uses_prototypes GDBM_NDBM_H_USES_PROTOTYPES /**/
?H:.
?T:d_dbm_open name hdr ihdr ndbm_hdr_protochk
?LINT:set d_ndbm d_gdbmndbm_h_uses_prototypes d_gdbm_ndbm_h_uses_prototypes
d_ndbm_h_uses_prototypes
: see if ndbm.h is available
set ndbm.h i_ndbm
eval $inhdr
: Compatibility location for RedHat 7.1
set gdbm/ndbm.h i_gdbmndbm
eval $inhdr
: Compatibility location for Debian 4.0
set gdbm-ndbm.h i_gdbm_ndbm
eval $inhdr
```

```
val="$undef"
if $test "$i_ndbm" = "$define" -o "$i_gdbmndbm" = "$define" -o "$i_gdbm_ndbm" = "$define"; then
 : see if dbm_open exists
 set
 dbm_open d_dbm_open
 eval $inlibc
 case "$d_dbm_open" in
 $undef)
  i_ndbm="$undef"
  i_gdbmndbm="$undef"
  i_gdbm_ndbm="$undef"
  echo "We won't be including <ndbm.h>"
  val="$undef"
  ;;
 *) val="$define"
    ;;
 esac
fi
set d_ndbm
eval $setvar

ndbm_hdr_protochk='name=$1; hdr=$2;
eval "ihdr=\$""i_$name";
val="$undef";
if $test "$ihdr" = "$define"; then
 $echo "Checking if your <$hdr> uses prototypes..." >&4;
 case "$d_cplusplus" in
 $define) ./protochk "$extern_C void dbm_close(DBM *);" literal "extern \"C\" {" $ihdr $hdr literal "}" &&
val="$define" ;;
 *) ./protochk "$extern_C void dbm_close(int, int);" $ihdr $hdr || val="$define" ;;
 esac;
 case "$val" in
 $define) $echo "Your <$hdr> seems to have prototypes";;
 *) $echo "Your <$hdr> does not seem to have prototypes";;
 esac;
fi;
set "d_${name}_h_uses_prototypes";
eval $setvar'

set ndbm ndbm.h
eval $ndbm_hdr_protochk
set gdbmndbm gdbm/ndbm.h
eval $ndbm_hdr_protochk
set gdbm_ndbm gdbm-ndbm.h
eval $ndbm_hdr_protochk

Found
```

in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_ndbm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: AAAAA.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: AAAAA.U,v $
?RCS: Revision 3.0.1.4  1994/06/20  06:50:26  ram
?RCS: patch30: changes from Jarkko Hietaniemi are tagged with JHI
?RCS:
?RCS: Revision 3.0.1.3  1994/05/06  14:01:39  ram
?RCS: patch23: initials for Wayne Davison are now WED
?RCS: patch23: added initials for new unit contributor Andy Dougherty
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:01:09  ram
?RCS: patch16: make metalint shut up on special unit definition for All target
?RCS:
?RCS: Revision
 3.0.1.1  1993/09/13  15:43:57  ram
?RCS: patch10: documents initials used for Wayne Davison's contributions
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this file is to supply the head of the Makefile created
?X: by metaconfig.  For this reason it must be first in alphabetical order.
?X: The leading '+' in front of the unit name is a hint for metalint, since
?X: the use of that special unit name as a "made" unit is legitimate here.
?X:
?MAKE:+All: Finish
?X:
?X: Throughout the units, the following initials are used to identify comments:
?X:
?X:  HMS: Harlan Stenn
?X:  RAM: Raphael Manfredi
?X:  WED: Wayne Davison (was WAD by mistake--RAM)
?X:  ADO: Andy Dougherty
?X:  JHI: Jarkko Hietaniemi
```

```
?X:
?X: Agreed, this is a weird place to document it, but I couldn't find a better
?X: place to do so. I've bet on the curiosity of users, who would probably
?X: want to know what's in this strangely-named file--RAM.
```

Found
 in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/AAAAA.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_dlopen.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  13:52:56  ram
?RCS: patch56: force compile-link test since symbol might lie in crt0.o (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:34  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_dlopen: Inlibc runnm
?MAKE: -pick add $@ %<
?S:d_dlopen:
?S: This variable conditionally defines the HAS_DLOPEN symbol, which
?S: indicates to the C program that the dlopen() routine
 is available.
?S:.
?C:HAS_DLOPEN :
?C: This symbol, if defined, indicates that the dlopen routine is
?C: available.
?C:.
?H:#$d_dlopen HAS_DLOPEN  /**/
?H:.
?T: xxx_runnm
?LINT:set d_dlopen
?X: We don't permanently change runnm, but we do temporarily.
?LINT: change runnm
: see if dlopen exists
```

```
?X: On NetBSD and FreeBSD, dlopen is available, but it is in
?X: /usr/lib/crt0.o, not in any of the libraries.  Therefore, do not
?X: use the nm extraction, but use a real compile and link test instead.
xxx_runnm="$runnm"
runnm=false
set dlopen d_dlopen
eval $inlibc
runnm="$xxx_runnm"
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_dlopen.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:siteman1dir siteman1direxp installsiteman1dir: Getfile \
 Setprefixvar prefix siteprefix man1dir sed
?MAKE: -pick add $@ %<
?Y:TOP
?D:siteman1dir=''
?S:siteman1dir:
?S: This variable contains the name of the directory in which site-specific
?S: manual source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S: The standard distribution will put nothing in this directory.
?S: After perl
 has been installed, users may install their own local
?S: man1 pages in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:siteman1direxp=''
?S:siteman1direxp:
?S: This variable is the same as the siteman1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsiteman1dir=''
?S:installsiteman1dir:
```

```
?S: This variable is really the same as siteman1direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man1direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installsiteman1dir
?LINT:set siteman1dir
?LINT:set siteman1direxp
: determine where add-on manual pages go
case "$siteman1dir" in
") dflt=`echo $man1dir | $sed "s#^$prefix#$siteprefix#"` ;;
*) dflt=$siteman1dir ;;
esac
case "$dflt" in
"|' ') dflt=none ;;
esac
fn=dn+~
rp='Pathname
 where the site-specific manual pages should be installed?'
. ./getfile
prefixvar=siteman1dir
. ./setprefixvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/siteman1dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Config_h.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Config_h.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  14:57:43  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:10:49  ram
?RCS: patch59: commented the purpose of the #un-def directive
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:25:39  ram
?RCS: patch49: typo fixes in leading config.h comment (WED)
```

```
?RCS:
?RCS: Revision 3.0.1.2  1993/08/24  12:13:20  ram
?RCS: patch3: added TOP as a local shell temporary variable
?RCS:
?RCS:
 Revision 3.0.1.1  1993/08/19  06:42:20  ram
?RCS: patch1: leading config.sh searching was not aborting properly
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file ends up producing the config_h.SH script, which is run to produce
?X: the config.h file.  The file ./.Config_h below contains all the ?H: lines
?X: extracted out of all the units.  Metaconfig itself adds the !GROK!THIS!.
?X: Note that this code isn't included into Configure, but must be shipped with.
?X:
?X: For those who wish to know why the file is config_h.SH instead of the more
?X: natural config.h.SH, well... it is to support systems like MS-DOG. Only one
?X: 'dot' is allowed within the file name, as it is part of the "extension" of
?X: the file. MS-DOG will not let you have two 'dots' because that would mean
?X: two "extensions".
?X:
?MAKE:Config_h: Id End Config_sh Obsol_h myuname cf_time cf_by package src
?MAKE: -pick c_h_weed $@ %<
?MAKE: -pick
 c_h_weed $@ ./Config_h
?MAKE: -pick c_h_weed $@ ./Obsol_h
?T:PERL_CONFIG_SH TOP
?LINT:unclosed !GROK!THIS!
?LINT:extern CONFIG_H CONFIG_SH
?LINT:change CONFIG_H CONFIG_SH
?X:?LINT:nocomment
: Set up for generating config_h.SH
case "$CONFIG_SH" in
") CONFIG_SH=config.sh;;
esac
case "$CONFIG_H" in
") CONFIG_H=config.h;;
esac
case $PERL_CONFIG_SH in
")
 if test -f $CONFIG_SH; then TOP=.;
 elif test -f ../$CONFIG_SH; then TOP=..;
 elif test -f ../../$CONFIG_SH; then TOP=../..;
 elif test -f ../../../$CONFIG_SH; then TOP=../../..;
 elif test -f ../../../../$CONFIG_SH; then TOP=../../../..;
 else
```

```
  echo "Can't find $CONFIG_SH."; exit 1
 fi
 . $TOP/$CONFIG_SH
 ;;
esac
?X: Make sure we are in the directory where the .SH file is located.
case "$0" in
*/*) cd `expr X$0 : 'X\(.*\)/'` ;;
esac
echo "Extracting $CONFIG_H (with variable substitutions)"
?X:
?X: Since we unconditionally translate leading #undef into /*#define, we're
?X: stuck when we really want to have a #undef in $CONFIG_H.
 That's why there
?X: is provision here for #un-def, which is translated back into #undef after
?X: all original #undef have been processed.
?X:
?X: Previously, we changed all
?X:  #undef FOO /**/
?X: into
?X:  /*#define FOO /**/
?X: The xlc compiler (available on IBM's AIX) complains that this is
?X: an illegal attempt to write a nested comment, and warns against it.
?X: There's apparently no way to shut the compiler up, either.
?X: This sed command from Hallvard B Furuseth <h.b.furuseth@usit.uio.no>
?X: changes it to
?X:  /*#define FOO / **/
sed <<!GROK!THIS! >$CONFIG_H -e 's!^#undef\(.*/\)\*!/\*#define\1 \*!' -e 's!^#un-def!#undef!'
/* This file was produced by running the config_h.SH script, which
* gets its values from $CONFIG_SH, which is generally produced by
* running Configure.
*
* Feel free to modify any of this as the need arises.  Note, however,
* that running config_h.SH again will wipe out any changes you've made.
* For a more permanent change edit $CONFIG_SH and
 rerun config_h.SH.
*/

/* Package name      : $package
* Source directory  : $src
* Configuration time: $cf_time
* Configured by     : $cf_by
* Target system     : $myuname
*/

#ifndef _config_h_
#define _config_h_
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Config_h.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_sbrkproto: Hasproto i_unistd
?MAKE: -pick add $@ %<
?S:d_sbrkproto:
?S: This variable conditionally defines the HAS_SBRK_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the sbrk() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_SBRK_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the sbrk() function.  Otherwise, it is up
?C: to the program to supply one.  Good guesses are
?C:  extern void* sbrk(int);
?C:  extern
 void* sbrk(size_t);
?C:.
?H:#$d_sbrkproto HAS_SBRK_PROTO /**/
?H:.
?LINT:set d_sbrkproto
: see if prototype for sbrk is available
echo " "
set d_sbrkproto sbrk $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sbrkproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_gdbm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_gdbm.U,v $
?RCS: Revision 3.0.1.1  1995/05/12  12:16:39  ram
?RCS: patch54: made more robust by checking both header and lib (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_gdbm: Inhdr Inlibc Setvar
?MAKE: -pick add $@ %<
?S:i_gdbm (d_gdbm):
?S: This variable conditionally defines the I_GDBM symbol, which
?S: indicates to the C program that <gdbm.h> exists and should
?S: be included.
?S:.
?C:I_GDBM
 (HAS_GDBM):
?C: This symbol, if defined, indicates that <gdbm.h> exists and should
?C: be included.
?C:.
?H:#$i_gdbm I_GDBM /**/
?H:.
?T:t_gdbm d_gdbm_open
?LINT:set i_gdbm
: see if gdbm.h is available
?X: t_gdbm is a tentative check. We might just have the .h, not the lib -- ADO
set gdbm.h t_gdbm
eval $inhdr
case "$t_gdbm" in
$define)
 : see if gdbm_open exists
 set gdbm_open d_gdbm_open
 eval $inlibc
 case "$d_gdbm_open" in
 $undef)
  t_gdbm="$undef"
  echo "We won't be including <gdbm.h>"
  ;;
 esac
 ;;
esac
val="$t_gdbm"
set i_gdbm
```

```
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_gdbm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_lgamma: Inlibc
?MAKE: -pick add $@ %<
?S:d_lgamma:
?S: This variable conditionally defines the HAS_LGAMMA symbol, which
?S: indicates to the C program that the lgamma() routine is available
?S: for the log gamma function.  See also d_tgamma and d_lgamma_r.
?S:.
?C:HAS_LGAMMA:
?C: This symbol, if defined, indicates that the lgamma routine is
?C: available to do the log gamma function.  See also HAS_TGAMMA and
?C: HAS_LGAMMA_R.
?C:.
?H:#$d_lgamma HAS_LGAMMA  /**/
?H:.
?LINT:set d_lgamma
: see if lgamma exists
set lgamma d_lgamma
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lgamma.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: startperl.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:25:06  ram
?RCS: patch61: warn them if the #! line is too long for their OS
?RCS:
```

```
?RCS: Revision 3.0  1993/08/18  12:09:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:startperl: cat rm sharpbang perlpath d_portable Myread
?MAKE: -pick add $@ %<
?S:startperl:
?S: This variable contains the string to put on the front of a perl
?S: script to make sure (hopefully) that it runs with perl and not some
?S: shell. Of course, that
 leading line must be followed by the classical
?S: perl idiom:
?S:  eval 'exec perl -S $0 ${1+"$@"}'
?S:   if $running_under_some_shell;
?S: to guarantee perl startup should the shell execute the script. Note
?S: that this magic incantation is not understood by csh.
?S:.
?C:STARTPERL:
?C: This symbol is the string that should be put on the front of a
?C: perl script to make sure (hopefully) that it runs with perl and
?C: not under some shell. That line should be followed by the classical
?C: invocation magic:
?C:  eval 'exec perl -S $0 ${1+"$@"}'
?C:   if $running_under_some_shell;
?C: to guarantee perl startup should the shell execute the script at first.
?C:.
?H:#define STARTPERL "$startperl"
?H:.
?T:pdflt
?F:!xtry
: figure out how to guarantee perl startup
case "$sharpbang" in
*!)
?X:
?X: Make sure the #!$perlpath magic incantation indeed works on this
?X: system... It might not if the length of the #! hook is greater
?X: than some hardwired kernel limit. -- RAM, 15/03/96
?X:
 $cat
 >xtry <<EOP
#!$perlpath
system("exit 0");
EOP
 chmod a+x xtry
 if ./xtry >/dev/null 2>&1; then
  $cat <<EOH

I can use the #! construct to start perl on your system. This will make
startup of perl scripts faster, but may cause problems if you want to share
```

```
those scripts and perl is not in a standard place (/usr/bin/perl) on all your
platforms. The alternative is to force a shell by starting the script with a
single ':' character.

EOH
  pdflt=y
 else
  $cat <<EOH

I could use the #! construct to start perl on your system, but using
   #!$perlpath
would be too long for your kernel to grok. Indeed, most systems do
limit the size of the leading #! string to 32 characters.

EOH
  pdflt=n
 fi
 $rm -f xtry
 case "$startperl" in
 *!*) dflt=y;;
 ") case "$d_portable" in
  "$define") dflt=n;;
  *) dflt=$pdflt;;
  esac;;
 *) dflt=n;;
 esac
 rp='Shall I use #! to start up perl?'
 . ./myread
 case "$ans" in
 y*|Y*) startperl="#!$perlpath";;
 *) startperl=": # use perl";;
 esac;;
*) startperl=":
 # use perl";;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/startperl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sgndchr.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:44:25  ram
?RCS: patch61: added a ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  14:00:24  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:16  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sgndchr: cat rm +cc +ccflags Setvar
?MAKE: -pick add $@ %<
?S:d_sgndchr:
?S: This variable conditionally defines the SIGNEDCHAR symbol, which
?S: indicates to the C program
 that signed characters are available.
?S:.
?C:SIGNEDCHAR:
?C: This symbol, if defined, indicates that characters are a signed type.
?C: If not defined, things declared as signed characters (and that make
?C: use of negative values) should probably be declared as shorts instead.
?C:.
?H:#$d_sgndchr SIGNEDCHAR /**/
?H:.
?F:!try
?LINT:set d_sgndchr
: check for signed chars
echo " "
echo "Checking to see if your C compiler can do signed chars..." >&4
$cat >try.c <<'EOCP'
int main()
{
 char c = 0;

 c--;
 exit(c >= 0);
}
EOCP
$cc $ccflags -o try try.c
if ./try; then
 val="$define"
 echo "It certainly can."
else
 val="$undef"
 echo "It can't.  I'll have to make some things type short."
```

```
fi
set d_sgndchr
eval $setvar
$rm -f try*
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sgndchr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: usecbacktrace.U,v $
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: usecbacktrace.U,v $
?RCS:
?MAKE:usecbacktrace: Myread Oldconfig Setvar Getfile d_backtrace
?MAKE: -pick add $@ %<
?Y:TOP
?S:usecbacktrace:
?S: This variable indicates whether we are compiling with backtrace
?S: support.
?S:.
?C:USE_C_BACKTRACE:
?C: This symbol, if defined, indicates that Perl should
?C: be built with support for backtrace.
?C:.
?H:#$usecbacktrace USE_C_BACKTRACE  /**/
?H:.
: Check if C backtrace is actually supported.
case "$usecbacktrace" in
 "") usecbacktrace=$undef ;;
 [yY]*|true|$define)
   case "$d_backtrace" in
     [yY]*|true|$define)
       ;;
     *)
       echo "This system does not support backtrace" >&4
       usecbacktrace=$undef

  ;;
     esac
   ;;
 esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/usebacktrace.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fpclassl: Inlibc
?MAKE: -pick add $@ %<
?S:d_fpclassl:
?S: This variable conditionally defines the HAS_FPCLASSL symbol, which
?S: indicates to the C program that the fpclassl() routine is available.
?S:.
?C:HAS_FPCLASSL:
?C: This symbol, if defined, indicates that the fpclassl routine is
?C: available to classify long doubles.  Available for example in IRIX.
?C: The returned values are defined in <ieeefp.h> and are:
?C:
?C: FP_SNAN  signaling NaN
?C: FP_QNAN  quiet NaN
?C: FP_NINF  negative infinity
?C: FP_PINF  positive infinity
?C: FP_NDENORM negative denormalized non-zero
?C: FP_PDENORM positive denormalized non-zero
?C: FP_NZERO negative zero
?C: FP_PZERO positive zero
?C: FP_NNORM negative
 normalized non-zero
?C: FP_PNORM positive normalized non-zero
?C:.
?H:#$d_fpclassl HAS_FPCLASSL  /**/
?H:.
?LINT:set d_fpclassl
: see if fpclassl exists
set fpclassl d_fpclassl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fpclassl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: lseektype.U,v 3.0.1.1 1994/08/29 16:30:10 ram Exp $
```

```
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: lseektype.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:30:10  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lseektype lseeksize: Myread Typedef cat Compile rm_try longsize run
?MAKE: -pick add $@ %<
?S:lseektype:
?S: This variable defines lseektype to be something like off_t, long,
?S: or whatever type is used to declare
 lseek offset's type in the
?S: kernel (which also appears to be lseek's return type).
?S:.
?S:lseeksize:
?S: This variable defines lseektype to be something like off_t, long,
?S: or whatever type is used to declare lseek offset's type in the
?S: kernel (which also appears to be lseek's return type).
?S:.
?C:Off_t (LSEEKTYPE):
?C: This symbol holds the type used to declare offsets in the kernel.
?C: It can be int, long, off_t, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?C:LSEEKSIZE:
?C: This symbol holds the number of bytes used by the Off_t.
?C:.
?C:Off_t_size:
?C: This symbol holds the number of bytes used by the Off_t.
?C:.
?H:#define Off_t $lseektype  /* <offset> type */
?H:#define LSEEKSIZE $lseeksize  /* <offset> size */
?H:#define Off_t_size $lseeksize /* <offset> size */
?H:.
?F:!try
?LINT:set lseektype
: see what type lseek is declared as in the kernel
rp="What is the type used for lseek's offset on this system?"
```

```
set off_t lseektype
 long stdio.h sys/types.h
eval $typedef_ask

echo " "
echo "Checking to see how big your file offsets are..." >&4
$cat >try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
int main()
{
   printf("%d\n", (int)sizeof($lseektype));
   return(0);
}
EOCP
set try
if eval $compile_ok; then
 lseeksize=`$run ./try`
 echo "Your file offsets are $lseeksize bytes long."
else
 dflt=$longsize
 echo " "
 echo "(I can't seem to compile the test program.  Guessing...)"
 rp="What is the size of your file offsets (in bytes)?"
 . ./myread
 lseeksize="$ans"
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/lseektype.U
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```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isinf: Inlibc cat Compile rm_try Setvar
?MAKE: -pick add $@ %<
?S:d_isinf:
?S: This variable conditionally defines the HAS_ISINF symbol, which
?S: indicates to the C program that the isinf() routine is available.
?S:.
?C:HAS_ISINF:
```

```
?C: This symbol, if defined, indicates that the isinf routine is
?C: available to check whether a double is an infinity.
?C:.
?H:#$d_isinf HAS_ISINF  /**/
?H:.
?LINT:set d_isinf
: check for isinf
echo "Checking to see if you have isinf..." >&4
$cat >try.c <<EOCP
#include <math.h>
int main() { return isinf(0.0); }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have isinf."
else
 val="$undef"
 echo "You do not have isinf."
fi
$rm_try
set d_isinf
eval $setvar
```

Found
 in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_isinf.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Loc.U,v $
?RCS: Revision 3.0.1.10  1997/02/28  15:04:16  ram
?RCS: patch61: allow users to specify paths on the command line
?RCS: patch61: will now substitute cp for ln if not supported
?RCS:
?RCS: Revision 3.0.1.9  1995/09/25  09:11:24  ram
?RCS: patch59: commented the purpose of the #un-def directive
?RCS: patch59: abort Configure run when mandatory command is missing
```

```
?RCS:
?RCS: Revision 3.0.1.8  1995/07/25  13:40:40  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.7
  1995/01/11  15:13:37  ram
?RCS: patch45: protected "sh -c" within backquotes for Linux and SGI
?RCS: patch45: added path lookup for the 'comm' program
?RCS:
?RCS: Revision 3.0.1.6  1994/10/29  15:56:14  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: be careful and guard against wildcard searching (ADO)
?RCS:
?RCS: Revision 3.0.1.5  1994/06/20  06:54:55  ram
?RCS: patch30: now locates find
?RCS:
?RCS: Revision 3.0.1.4  1994/05/13  15:18:15  ram
?RCS: patch27: added byacc to the trylist (ADO)
?RCS: patch27: lint lines reformatted (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/01/24  14:01:44  ram
?RCS: patch16: added metalint hint on changed PATH variable
?RCS:
?RCS: Revision 3.0.1.2  1993/12/15  08:16:52  ram
?RCS: patch15: now set _test variable when test is built-in
?RCS: patch15: fixed rare cases where echo is not needed
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  15:47:13  ram
?RCS: patch10: test program not always in /bin/test (WAD)
?RCS:
?RCS: Revision
 3.0  1993/08/18  12:05:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script "loc" which can be used to find out
?X: where in a list of directories something is.  It then uses loc to
?X: determine the location of commonly used programs.  It leaves loc sitting
?X: around for other Configure units to use, but arranges for its demise
?X: at the end of Configure.
?X:
?X: To add a new program to find, add it both to the ?MAKE: line and to either
?X: the loclist or trylist variable.
?X:
?X: I put startsh at the end of the dependency list, in order to avoid the
?X: loading of the spitshell unit before the instructions.
?X:
?MAKE:Loc awk ar bash bison byacc cat chgrp chmod chown \
```

```
 comm compress cp cpio cpp csh date echo egrep emacs expr find flex \
 gmake gzip grep inews ksh less line lint ln lp lpr ls mail mailx \
 make mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \
 shar sleep smail sort submit tail tar tbl tee test touch tr troff
 \
 uname uniq uuname vi zcat zip:  eunicefix n c startsh Instruct Warn
?MAKE: -pick weed $@ %<
?LINT:describe awk ar bash bison byacc cat chgrp chmod chown \
 comm compress cp cpio cpp csh date echo egrep emacs expr find flex \
 gmake gzip grep inews ksh less line lint ln lp lpr ls mail mailx \
 make mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \
 shar sleep smail sort submit tail tar tbl tee test touch tr troff \
 uname uniq uuname vi zcat zip
?V::pth loclist trylist
?F:./loc
?T:thisthing thing xxx dir file say DJGPP
?T:_test _grep _cp _gmake _egrep _ln _make dflt
?LINT: change PATH
: find out where common programs are
echo " "
echo "Locating common programs..." >&4
cat <<EOSC >loc
$startsh
case \$# in
0) exit 1;;
esac
thing=\$1
shift
dflt=\$1
shift
for dir in \$*; do
 case "\$thing" in
 .)
 if test -d \$dir/\$thing; then
  echo \$dir
  exit 0
 fi
 ;;
 *)
?X: Be careful in case thing includes wildcards that might expand to multiple
?X: files.  Choose the last one.
  This happens when searching for shared
?X: libraries with version numbers.  How to choose which one we want is
?X: probably an insoluble problem, in general.
?X: Some folks leave things like libc.so.orig around w/o read
?X: permission.  A -r test would handle that, but since ./loc is
?X: also used to find executables (which are installed w/o read
?X: permission on SCO ODT 3.0, we can't include the -r test.
```

```
 for thisthing in \$dir/\$thing; do
  : just loop through to pick last item
 done
 if test -f \$thisthing; then
  echo \$thisthing
  exit 0
 elif test -f \$thisthing$_exe; then
  echo \$thisthing
  exit 0
 elif test -f \$dir/\$thing.exe; then
  if test -n "$DJGPP"; then
   echo \$dir/\$thing.exe
  else
   : on Eunice apparently
   echo \$dir/\$thing
  fi
  exit 0
 fi
 ;;
 esac
done
echo \$dflt
exit 1
EOSC
chmod +x loc
$eunicefix loc
loclist="
?awk:awk
?cat:cat
?chgrp:chgrp
?chmod:chmod
?chown:chown
?comm:comm
?cp:cp
?echo:echo
?expr:expr
?find:find
?grep:grep
?ls:ls
?mkdir:mkdir
?mv:mv
?rm:rm
?sed:sed
?sleep:sleep
?sort:sort
?tail:tail
?touch:touch
?tr:tr
```

```
?uniq:uniq
"
trylist="
?Mcc:Mcc
?ar:ar
?bash:bash
?bison:bison
?byacc:byacc
?compress:compress
?cpio:cpio
?cpp:cpp
?csh:csh
?date:date
?egrep:egrep
?emacs:emacs
?flex:flex
?gmake:gmake
?gzip:gzip
?inews:inews
?ksh:ksh
?less:less
?line:line
?lint:lint
?ln:ln
?lp:lp
?lpr:lpr
?mail:mail
?mailx:mailx
?make:make
?more:more
?nm:nm
?nroff:nroff
?perl:perl
?pg:pg
?pmake:pmake
?pr:pr
?rmail:rmail
?sendmail:sendmail
?shar:shar
?smail:smail
?submit:submit
?tar:tar
?tbl:tbl
?tee:tee
?test:test
?troff:troff
?uname:uname
?uuname:uuname
```

```
?vi:vi
?zcat:zcat
?zip:zip
"
?LINT:set
 awk ar bash bison byacc cat chgrp chmod chown \
 comm compress cp cpio cpp csh date echo emacs expr find flex \
 gmake gzip grep inews ksh less line lint lp lpr ls mail mailx \
 mkdir more mv nm nroff perl pg pmake pr rm rmail sed sendmail \
 shar sleep smail sort submit tail tar tbl tee touch tr troff \
 uname uniq uuname vi zcat zip
pth=`echo $PATH | sed
 -e "s/$p_/ /g"`
pth="$pth /lib /usr/lib"
for file in $loclist; do
?X:
?X: Allow them to -Dmake=pmake on the command line for instance...
?X: If the file is not fully qualified, as in -Dmake=pmake, then we
?X: look the for the specified command (pmake here). If they say
?X: -Dmake=/sbin/make for instance, then we make sure the file
?X: exists, or we die...
?X:
 eval xxx=\$$file
 case "$xxx" in
 /*|?:[\\/]*)
  if test -f "$xxx"; then
   : ok
  else
   ./warn "no $xxx -- ignoring your setting for $file."
   xxx=`./loc $file $file $pth`
  fi
  ;;
 ") xxx=`./loc $file $file $pth`;;
 *) xxx=`./loc $xxx $xxx $pth`;;
 esac
 eval $file=$xxx$_exe
 eval _$file=$xxx
 case "$xxx" in
 /*)
  echo $file is in $xxx.
  ;;
?X: Under OS/2, we have PC-like paths
 ?:[\\/]*)
  echo $file is in $xxx.
  ;;
 *)
  echo "I don't know where '$file' is, and my life depends on it." >&4
  echo "Go find a public domain implementation or fix your PATH setting!" >&4
```

```
  exit 1
  ;;
 esac
done
echo " "
echo "Don't worry
 if any of the following aren't found..."
say=offhand
for file in $trylist; do
?X: Allow them to -Dmake=pmake on the command line for instance (see above)
 eval xxx=\$$file
 case "$xxx" in
 /*|?:[\\/]*)
  if test -f "$xxx"; then
   : ok
  else
   ./warn "no $xxx -- ignoring your setting for $file."
   xxx=`./loc $file $file $pth`
  fi
  ;;
 ") xxx=`./loc $file $file $pth`;;
 *) xxx=`./loc $xxx $xxx $pth`;;
 esac
 eval $file=$xxx$_exe
 eval _$file=$xxx
 case "$xxx" in
 /*)
  echo $file is in $xxx.
  ;;
?X: Under OS/2, we have PC-like paths
 ?:[\\/]*)
  echo $file is in $xxx.
  ;;
 *)
  echo "I don't see $file out there, $say."
  say=either
  ;;
 esac
done
case "$egrep" in
egrep)
 echo "Substituting grep for egrep."
 egrep=$grep
 _egrep=$_grep
 ;;
esac
@if ln
case "$ln" in
```

```
ln)
 echo "Substituting cp for ln."
 ln=$cp
 _ln=$_cp
 ;;
esac
@end
@if make || gmake
case "$make" in
make)
 case "$gmake" in
 gmake)
 echo "I can't find make or gmake, and my life depends on it." >&4
 echo "Go find a
 public domain implementation or fix your PATH setting!" >&4
 exit 1
 ;;
 esac
 ;;
esac
case "$gmake" in
gmake) ;;
*) # We can't have osname yet.
 if test -f "/system/gnu_library/bin/ar.pm"; then # Stratus VOS
  # Assume that gmake, if found, is definitely GNU make
  # and prefer it over the system make.
  echo "Substituting gmake for make."
  make=$gmake
  _make=$_gmake
 fi
 ;;
esac
@end
case "$test" in
test)
 echo "Hopefully test is built into your sh."
 ;;
*)
 if `sh -c "PATH= test true" >/dev/null 2>&1`; then
  echo "Using the test built into your sh."
?X:
?X: We need to set both test and _test, since Oldconfig.U will use the _test
?X: value to systematically restore computed paths, which may be wrong if
?X: we choose to load an old config.sh generated on another platform.
?X:
  test=test
  _test=test
 fi
```

```
 ;;
esac
?LINT:change n c
case "$echo" in
echo)
 echo "Hopefully echo is built into your sh."
 ;;
?X: For those rare cases where we don't need $echo...
") ;;
*)
 echo " "
echo "Checking
 compatibility between $echo and builtin echo (if any)..." >&4
 $echo $n "hi there$c" >foo1
 echo $n "hi there$c" >foo2
 if cmp foo1 foo2 >/dev/null 2>&1; then
  echo "They are compatible.  In fact, they may be identical."
 else
  case "$n" in
  '-n') n=" c='\c';;
  *) n='-n' c=";;
  esac
  cat <<FOO
They are not compatible!  You are probably running ksh on a non-USG system.
I'll have to use $echo instead of the builtin, since Bourne shell doesn't
have echo built in and we may have to run some Bourne shell scripts.  That
means I'll have to use '$n$c' to suppress newlines now.  Life is ridiculous.

FOO
  $echo $n "The star should be here-->$c"
  $echo "*"
 fi
 $rm -f foo1 foo2
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Loc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sitecustomize.U,v $
?RCS:
?RCS: Copyright (c) 2005-2006 H.Merijn Brand
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?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
```

```
?RCS: $Log: d_sitecustomize.U,v $
?RCS:
?MAKE:usesitecustomize: Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:usesitecustomize:
?S: This variable is set to true when the user requires a mechanism that
?S: allows the sysadmin to add entries to @INC at runtime.  This variable
?S: being set, makes perl run '$sitelib/sitecustomize.pl' at startup.
?S:.
?C:USE_SITECUSTOMIZE:
?C: This symbol, if defined, indicates that sitecustomize should
?C: be used.
?C:.
?H:?%<:@if USE_SITECUSTOMIZE
?H:?%<:#ifndef USE_SITECUSTOMIZE
?H:?%<:#$usesitecustomize USE_SITECUSTOMIZE  /**/
?H:?%<:#endif
?H:?%<:@end
?H:.
: Check if site customization support was requested
case "$usesitecustomize" in
   $define|true|[Yy]*)
 usesitecustomize="$define"
 ;;
    *)
 usesitecustomize="$undef"
 ;;
   esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sitecustomize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethent.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_gethent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:d_gethent: Inlibc
?MAKE: -pick add $@ %<
?S:d_gethent:
?S: This variable conditionally defines HAS_GETHOSTENT if gethostent() is
?S: available to look up host names in some data base or another.
?S:.
?C:HAS_GETHOSTENT:
?C: This symbol, if defined, indicates that the gethostent() routine is
?C: available to look up host names in some
 data base or another.
?C:.
?H:#$d_gethent HAS_GETHOSTENT  /**/
?H:.
?LINT:set d_gethent
: see if gethostent exists
set gethostent d_gethent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_gethent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_poll.U,v $
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_langinfo: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_langinfo:
?S: This variable conditionally defines the I_LANGINFO symbol,
?S: and indicates whether a C program should include <langinfo.h>.
?S:.
?C:I_LANGINFO:
?C: This symbol, if defined, indicates that <langinfo.h> exists and
?C: should be included.
?C:.
?H:#$i_langinfo I_LANGINFO  /**/
?H:.
?LINT:set i_langinfo
: see if this is a langinfo.h system
set langinfo.h i_langinfo
eval $inhdr
```

Found in path(s):

* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_langinfo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_neterrno.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:20:29  ram
?RCS: patch36: forgot to initialize 'val' to an empty value (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:22:10  ram
?RCS: patch32: removed spurious echo
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:02:05  ram
?RCS: patch30: created by ADO
?RCS:
?MAKE:i_neterrno: Inhdr +cc +ccflags rm_try Setvar
?MAKE: -pick add $@ %<
?S:i_neterrno:
?S: This variable
 conditionally defines the I_NET_ERRNO symbol, which
?S: indicates to the C program that <net/errno.h> exists and should
?S: be included.
?S:.
?C:I_NET_ERRNO:
?C: This symbol, if defined, indicates that <net/errno.h> exists and
?C: should be included.
?C:.
?H:#$i_neterrno I_NET_ERRNO  /**/
?H:.
?LINT:set i_neterrno
: see if net/errno.h is available
val=''
set net/errno.h val
eval $inhdr

: Unfortunately, it causes problems on some systems.  Arrgh.
case "$val" in
```

```
$define)
 cat > try.c <<'EOM'
#include <stdio.h>
#include <errno.h>
#include <net/errno.h>
int func()
{
 return ENOTSOCK;
}
EOM
 if $cc $ccflags -c try.c >/dev/null 2>&1; then
  echo "We'll be including <net/errno.h>." >&4
 else
  echo "We won't be including <net/errno.h>." >&4
  val="$undef"
 fi
 $rm_try
 ;;
esac
set i_neterrno
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_neterrno.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: alignbytes.U,v 3.0.1.2 1994/10/29 16:02:28 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: alignbytes.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:02:28  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:25:20  ram
?RCS: patch23: avoid ALIGNBYTES, since it conflicts on NetBSD
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:23  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:alignbytes: Myread Compile cat rm_try multiarch run test nvtype
```

```
?MAKE: -pick add $@ %<
?S:alignbytes:
?S: This
 variable holds the number of bytes required to align a
?S: double-- or a long double when applicable. Usual values are
?S: 2, 4 and 8.  The default is eight, for safety.
?S:.
?X: This used to be called ALIGNBYTES, but that conflicts with
?X: <machines/param.h> in NetBSD.
?C:MEM_ALIGNBYTES (ALIGNBYTES):
?C: This symbol contains the number of bytes required to align a
?C: double, or a long double when applicable. Usual values are 2,
?C: 4 and 8. The default is eight, for safety.  For cross-compiling
?C: or multiarch support, Configure will set a minimum of 8.
?C:.
?H:?%<:#define MEM_ALIGNBYTES $alignbytes
?H:.
?F:!try
: check for alignment requirements
echo " "
case "$alignbytes" in
   ") echo "Checking alignment constraints..." >&4
 $cat >try.c <<EOCP
#include <stdio.h>
struct foobar {
   char foo;
   $nvtype bar;
} try_algn;
int main()
{
   printf("%d\n", (int)((char *)&try_algn.bar - (char *)&try_algn.foo));
   return(0);
}
EOCP
 set try
 if eval $compile_ok; then
     dflt=`$run
 ./try`
 else
     dflt='8'
     echo "(I can't seem to compile the test program...)"
 fi
 case "$multiarch" in
     *$define*)
  : The usual safe value is 8, but Darwin with -Duselongdouble
  : needs 16.  Hence, we will take 8 as a minimum, but allow
  : Configure to pick a larger value if needed.
  if $test "$dflt" -lt 8; then
```

```
    dflt='8'
    echo "Setting alignment to 8 for multiarch support.">&4
  fi
  ;;
 esac
 ;;
   *) dflt="$alignbytes"
 ;;
esac
rp="Doubles must be aligned on a how-many-byte boundary?"
. ./myread
alignbytes="$ans"
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/alignbytes.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Config_sh.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  14:57:53  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.2  1995/01/11  14:53:31  ram
?RCS: patch45: moved path stripping from d_portable.U to end of Configure
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:50:37  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit ends up producing the config.sh
 script, which contains all the
?X: definitions figured out by Configure.  The add.Config_sh command knows
?X: which variables need to be remembered.  It also adds the EOT (ends the
?X: here document redirection with variable substitution).
```

```
?X:
?MAKE:Config_sh: cf_time cf_by test spitshell startsh myuname Myread \
 End Obsol_sh Loc +d_portable package src cat sed
?MAKE: -pick add.Config_sh $@ %<
?MAKE: -pick add $@ ./Obsol_sh
?MAKE: -pick close.Config_sh $@ %<
?F:!config.over !config.arch
?T:file sfile xsed
?LINT:unclosed EOT
: back to where it started
if test -d ../UU; then
 cd ..
fi

: configuration may be unconditionally patched via a 'config.arch' file
if $test -f config.arch; then
 echo "I see a config.arch file, loading it." >&4
 . ./config.arch
fi

: configuration may be patched via a 'config.over' file
if $test -f config.over; then
 echo " "
 dflt=y
 rp='I see a config.over file.  Do you wish to load it?'
 . UU/myread
 case "$ans" in
 n*) echo "OK, I'll ignore it.";;
 *) . ./config.over
  echo
 "Configuration override changes have been loaded."
  ;;
 esac
fi

@if d_portable
: in case they want portability, strip down executable paths
?X:
?X: Strip down paths in located executables. For each file, e.g. vi, there
?X: is a $vi variable whose value is for instance '/usr/bin/vi'. By resetting
?X: $vi to 'vi', we rely on the PATH variable to locate the executable...
?X: In order to allow vi='/usr/bin/nvi' which will strip down to vi='nvi',
?X: we can't just say 'eval $file="\$file"', we have to recourse to sed.
?X: We don't use basename since it is less portable than sed.
?X:
case "$d_portable" in
"$define")
 echo " "
```

```
 echo "Stripping down executable paths..." >&4
 xsed=$sed
 for file in $loclist $trylist; do
  eval sfile="\$$file"
  sfile=`echo $sfile | $xsed -e 's,.*/\(.*\),\1,'`
  eval $file="$sfile"
 done
 ;;
esac

@end
: create config.sh file
echo " "
echo "Creating config.sh..." >&4
$spitshell <<EOT >config.sh
$startsh
#
# This file was produced by running the
 Configure script. It holds all the
# definitions figured out by Configure. Should you modify one of these values,
# do not forget to propagate your changes by running "Configure -der". You may
# instead choose to run each of the .SH files by yourself, or "Configure -S".
#

# Package name      : $package
# Source directory  : $src
# Configuration time: $cf_time
# Configured by     : $cf_by
# Target system     : $myuname

EOT
?X: Command line options are saved by the Options.U unit in the
?X: temporary file UU/cmdline.opt
$test -f UU/cmdline.opt && $cat UU/cmdline.opt >> config.sh
$spitshell <<EOT >>config.sh
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Config_sh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: man1dir.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:10:29  ram
?RCS: patch61: created
?RCS:
?X:
?X: This was originally specific to perl5.  Since perl5 has man pages that
?X: go in both man1/ and man3/ directories, we need both man1dir
?X: and man3dir.  This unit is basically dist's mansrc.U with
?X: man1 used instead of man everywhere.
?X:
?MAKE:man1dir man1direxp man1ext installman1dir: afs cat nroff Loc Oldconfig \
 spackage test Getfile Prefixit prefixexp
 Prefixup sysman Myread
?MAKE: -pick add $@ %<
?Y:TOP
?S:man1dir:
?S: This variable contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?S:man1direxp:
?S: This variable is the same as the man1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?S:installman1dir:
?S: This variable is really the same as man1direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man1direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:man1ext:
?S: This variable contains the extension that the manual page should
?S: have: one of 'n', 'l', or '1'.  The Makefile must supply the '.'.
?S: See man1dir.
?S:.
?T:lookpath
: determine
 where manual pages go
set man1dir man1dir none
eval $prefixit
$cat <<EOM

$spackage has manual pages available in source form.
```

```
EOM
case "$nroff" in
nroff)
 echo "However, you don't have nroff, so they're probably useless to you."
 case "$man1dir" in
 ") man1dir="none";;
 esac;;
esac
echo "If you don't want the manual sources installed, answer 'none'."
case "$man1dir" in
' ') dflt=none
 ;;
")
 lookpath="$prefixexp/man/man1 $prefixexp/man/l_man/man1"
 lookpath="$lookpath $prefixexp/man/p_man/man1"
 lookpath="$lookpath $prefixexp/man/u_man/man1"
 lookpath="$lookpath $prefixexp/man/man.1"
?X: Experience has shown people expect man1dir to be under prefix,
?X: so we now always put it there.  Users who want other behavior
?X: can answer interactively or use a command line option.
?X: Does user have System V-style man paths.
 case "$sysman" in
 */?_man*) dflt=`./loc . $prefixexp/l_man/man1 $lookpath` ;;
 *) dflt=`./loc . $prefixexp/man/man1 $lookpath` ;;
 esac
 set dflt
 eval $prefixup
 ;;
*)
  dflt="$man1dir"
 ;;
esac
echo " "
fn=dn+~
rp="Where do the main $spackage manual pages (source) go?"
. ./getfile
if $test "X$man1direxp" != "X$ansexp"; then
 installman1dir="
fi
man1dir="$ans"
man1direxp="$ansexp"
case "$man1dir" in
") man1dir=' '
 installman1dir=";;
esac
if $afs; then
 $cat <<EOM
```

```
Since you are running AFS, I need to distinguish the directory in which
manual pages reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installman1dir" in
 ") dflt=`echo $man1direxp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installman1dir";;
 esac
 fn=de~
 rp='Where will man pages be installed?'
 . ./getfile
 installman1dir="$ans"
else
 installman1dir="$man1direxp"
fi

: What suffix to use on installed man pages

case "$man1dir" in
' ')
 man1ext='0'
 ;;
*)
 rp="What suffix should be used for the main $spackage man pages?"
 case "$man1ext" in
 ") case "$man1dir" in
  *1)  dflt=1 ;;
  *1p)
 dflt=1p ;;
  *1pm) dflt=1pm ;;
  *l) dflt=l;;
  *n) dflt=n;;
  *o) dflt=o;;
  *p) dflt=p;;
  *C) dflt=C;;
  *L) dflt=L;;
  *L1) dflt=L1;;
  *) dflt=1;;
  esac
  ;;
 *) dflt="$man1ext";;
 esac
 . ./myread
 man1ext="$ans"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/man1dir.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: getopt.C,v 3.0.1.1 1994/01/24 13:58:40 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* Original Author: unknown, got this off net.sources
*
* $Log: getopt.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:40  ram
* patch16: created
*
*/
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/getopt.C
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Extensions.U,v$
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: Extensions.U,v $
?RCS:
?MAKE:known_extensions extensions dynamic_ext static_ext nonxs_ext \
 useposix useopcode uselanginfo : \
 Myread hint usedl d_sem d_socket i_db i_dbm i_rpcsvcdbm i_gdbm \
 d_ndbm package test cat rsrc \
 d_msg d_shm osname use64bitint \
 libs d_cplusplus sed ls rm contains trnl sort
?MAKE: -pick add $@ %<
?Y:BOTTOM
?S:known_extensions:
?S: This variable holds a list of all extensions (both XS and non-xs)
```

```
?S: included in the package source distribution.  This information is
?S: only really of use during the Perl build, as the list makes no
?S: distinction between extensions which were build and installed, and
?S: those which where not.  See "extensions"
 for the list of extensions
?S: actually built and available.
?S:.
?S:dynamic_ext:
?S: This variable holds a list of XS extension files we want to
?S: link dynamically into the package.  It is used by Makefile.
?S:.
?S:static_ext:
?S: This variable holds a list of XS extension files we want to
?S: link statically into the package.  It is used by Makefile.
?S:.
?S:nonxs_ext:
?S: This variable holds a list of all non-xs extensions built and
?S: installed by the package.  By default, all non-xs extensions
?S: distributed will be built, with the exception of platform-specific
?S: extensions (currently only one VMS specific extension).
?S:.
?S:extensions:
?S: This variable holds a list of all extension files (both XS and
?S: non-xs) installed with the package.  It is propagated to Config.pm
?S: and is typically used to test whether a particular extension
?S: is available.
?S:.
?S:useposix:
?S: This variable holds either 'true' or 'false' to indicate
?S: whether the POSIX extension should
 be used.  The sole
?S: use for this currently is to allow an easy mechanism
?S: for hints files to indicate that POSIX will not compile
?S: on a particular system.
?S:.
?S:useopcode:
?S: This variable holds either 'true' or 'false' to indicate
?S: whether the Opcode extension should be used.  The sole
?S: use for this currently is to allow an easy mechanism
?S: for users to skip the Opcode extension from the Configure
?S: command line.
?S:.
?S:uselanginfo:
?S: This variable holds either 'true' or 'false' to indicate
?S: whether the I18N::Langinfo extension should be used.  The sole
?S: use for this currently is to allow an easy mechanism for users to skip
?S: this extension from the Configure command line.
?S:.
```

```
?T:xxx avail_ext this_ext tdir xs_extensions nonxs_extensions find_extensions
?INIT:: set useposix=false in your hint file to disable the POSIX extension.
?INIT:useposix=true
?INIT:: set useopcode=false in your hint file to disable the Opcode extension.
?INIT:useopcode=true
?INIT::
 set uselanginfo=false in your hint file to disable the I18N::Langinfo extension.
?INIT:uselanginfo=true
?LINT:extern noextensions
?LINT:extern onlyextensions
?T:keepextensions i
: Check extensions
echo " "
echo "Looking for extensions..." >&4
: If we are using the old config.sh, nonxs_extensions and xs_extensions may
: contain old or inaccurate or duplicate values.
nonxs_extensions="
xs_extensions="
: We do not use find because it might not be available.
: We do not just use MANIFEST because the user may have dropped
: some additional extensions into the source tree and expect them
: to be built.

: Function to recursively find available extensions, ignoring DynaLoader
: NOTE: recursion limit of 10 to prevent runaway in case of symlink madness
: In 5.10.1 and later, extensions are stored in directories
: like File-Glob instead of the older File/Glob/.
find_extensions='
   for xxx in *; do
 case "$xxx" in
     DynaLoader|dynaload) ;;
     *)
     this_ext=`echo "$xxx" | $sed -e s/-/\\/g`;

    case "$this_ext" in
  Scalar/List/Utils) this_ext="List/Util" ;;
  PathTools)         this_ext="Cwd" ;;
     esac;
     echo " $xs_extensions $nonxs_extensions" > "$tdir/$$.tmp";
     if $contains " $this_ext " "$tdir/$$.tmp"; then
  echo >&4;
  echo "Duplicate directories detected for extension $xxx" >&4;
  echo "Configure cannot correctly recover from this - shall I abort?" >&4;
  case "$knowitall" in
  "") dflt=y;;
  *) dflt=n;;
  esac;
  . ../UU/myread;
```

```
  case "$ans" in
  n*|N*) ;;
  *) echo >&4;
      echo "Ok.  Stopping Configure." >&4;
      echo "Please remove the duplicate directory (e.g. using git clean) and then re-run Configure" >&4;
      exit 1;;
  esac;
  echo "Ok.  You will need to correct config.sh before running make." >&4;
     fi;
     $ls -1 "$xxx" > "$tdir/$$.tmp";
     if   $contains "\.xs$" "$tdir/$$.tmp" > /dev/null 2>&1; then
  xs_extensions="$xs_extensions $this_ext";
     elif $contains "\.c$"  "$tdir/$$.tmp" > /dev/null 2>&1; then
  xs_extensions="$xs_extensions
 $this_ext";
     elif $test -d "$xxx"; then
  nonxs_extensions="$nonxs_extensions $this_ext";
     fi;
     $rm -f "$tdir/$$.tmp";
     ;;
 esac;
   done'
tdir=`pwd`
cd "$rsrc/cpan"
set X
shift
eval $find_extensions
cd "$rsrc/dist"
set X
shift
eval $find_extensions
cd "$rsrc/ext"
set X
shift
eval $find_extensions
set X $xs_extensions
shift
xs_extensions=`echo "$*" | tr ' ' $trnl | $sort | tr $trnl ' '`
set X $nonxs_extensions
shift
nonxs_extensions=`echo "$*" | tr ' ' $trnl | $sort | tr $trnl ' '`
cd "$tdir"
known_extensions=`echo $nonxs_extensions $xs_extensions  | tr ' ' $trnl | $sort | tr $trnl ' '`

: Now see which are supported on this system.
?X: avail_ext lists available XS extensions.
avail_ext="
for xxx in $xs_extensions ; do
```

```
 case "$xxx" in
?X: Handle possible DOS 8.3 filename and case alterations
 Amiga*)
  case "$osname" in
  amigaos) avail_ext="$avail_ext $xxx" ;;
  esac
  ;;
 DB_File|db_file)
  case "$i_db" in
  $define) avail_ext="$avail_ext $xxx"
 ;;
  esac
  ;;
 GDBM_File|gdbm_fil)
  case "$i_gdbm" in
  $define) avail_ext="$avail_ext $xxx" ;;
  esac
  ;;
 IPC/SysV|ipc/sysv)
  : XXX Do we need a useipcsysv variable here
  case "${d_msg}${d_sem}${d_shm}" in
  *"${define}"*) avail_ext="$avail_ext $xxx" ;;
  esac
  ;;
 NDBM_File|ndbm_fil)
  case "$d_ndbm" in
  $define)
      case "$osname-$use64bitint" in
      hpux-define)
   case "$libs" in
   *-lndbm*) avail_ext="$avail_ext $xxx" ;;
   esac
   ;;
      *) avail_ext="$avail_ext $xxx" ;;
      esac
      ;;
  esac
  ;;
 ODBM_File|odbm_fil)
  case "${i_dbm}${i_rpcsvcdbm}" in
  *"${define}"*)
      case "$d_cplusplus" in
      define) ;; # delete as a function name will not work
      *)  case "$osname-$use64bitint" in
   hpux-define)
       case "$libs" in
       *-ldbm*) avail_ext="$avail_ext $xxx" ;;
       esac
```

```
      ;;
  *) avail_ext="$avail_ext $xxx" ;;
  esac
  ;;
     esac
     ;;
 esac
 ;;
Opcode|opcode)
 case "$useopcode" in
 true|define|y) avail_ext="$avail_ext
$xxx" ;;
 esac
 ;;
POSIX|posix)
 case "$useposix" in
 true|define|y) avail_ext="$avail_ext $xxx" ;;
 esac
 ;;
Socket|socket)
 case "$d_socket" in
 true|$define|y) avail_ext="$avail_ext $xxx" ;;
 esac
 ;;
I18N/Langinfo|langinfo)
 case "$uselanginfo" in
 true|define|y) avail_ext="$avail_ext $xxx" ;;
 esac
 ;;
Sys/Syslog|sys/syslog)
 case $osname in
  amigaos) ;; # not really very useful on AmigaOS
  *)
  : XXX syslog requires socket
  case "$d_socket" in
  true|$define|y) avail_ext="$avail_ext $xxx" ;;
  esac
  ;;
 esac
 ;;
threads|threads/shared)
 # threads and threads::shared are special cases.
 # To stop people from asking "Perl 5.8.0 was supposed
 # to have this new fancy threads implementation but my
 # perl doesn't have it" and from people trying to
 # (re)install the threads module using CPAN.pm and
 # CPAN.pm then offering to reinstall Perl 5.8.0,
 # the threads.pm and threads/shared.pm will always be
```

```
 # there, croaking informatively ("you
need to rebuild
 # all of Perl with threads, sorry") when threads haven't
 # been compiled in.
 # --jhi
 avail_ext="$avail_ext $xxx"
 ;;
VMS*)
 ;;
Win32*)
 case "$osname" in
 cygwin) avail_ext="$avail_ext $xxx" ;;
 esac
 ;;
XS/APItest|xs/apitest)
 # This is just for testing.  Skip it unless we have dynamic loading.

 case "$usedl" in
 $define) avail_ext="$avail_ext $xxx" ;;
 esac
 ;;
XS/Typemap|xs/typemap)
 # This is just for testing.  Skip it unless we have dynamic loading.
 case "$usedl" in
 $define) avail_ext="$avail_ext $xxx" ;;
 esac
 ;;
*) avail_ext="$avail_ext $xxx"
 ;;
esac
done

set X $avail_ext
shift
avail_ext="$*"

case "$onlyextensions" in
") ;;
*)  keepextensions="
  echo "You have requested that only certain extensions be included..." >&4
  for i in $onlyextensions; do
      case " $avail_ext " in
      *" $i "*)
          echo "Keeping extension $i."
          keepextensions="$keepextensions $i"
          ;;
      *) echo "Ignoring
```

```
 extension $i." ;;
      esac
   done
   avail_ext="$keepextensions"
   ;;
esac

case "$noextensions" in
") ;;
*)  keepextensions="
   echo "You have requested that certain extensions be ignored..." >&4
   for i in $avail_ext; do
      case " $noextensions " in
      *" $i "*) echo "Ignoring extension $i." ;;
      *) echo "Keeping extension $i.";
         keepextensions="$keepextensions $i"
         ;;
      esac
   done
   avail_ext="$keepextensions"
   ;;
esac

: Now see which nonxs extensions are supported on this system.
: For now assume all are.
nonxs_ext="
for xxx in $nonxs_extensions ; do
 case "$xxx" in
 VMS*)
  ;;
 *) nonxs_ext="$nonxs_ext $xxx"
  ;;
 esac
done

set X $nonxs_ext
shift
nonxs_ext="$*"

case $usedl in
$define)
 $cat <<EOM
A number of extensions are supplied with $package.  You may choose to
compile these extensions for dynamic loading (the default), compile
them into the $package executable (static loading), or not include
them at all.
  Answer "none" to include no extensions.
Note that DynaLoader is always built and need not be mentioned here.
```

```
EOM
 case "$dynamic_ext" in
 ")
  : Exclude those listed in static_ext
  dflt=''
  for xxx in $avail_ext; do
   case " $static_ext " in
   *" $xxx "*) ;;
   *) dflt="$dflt $xxx" ;;
   esac
  done
  set X $dflt
  shift
  dflt="$*"
  ;;
 *) dflt="$dynamic_ext"
  # Perhaps we are reusing an old out-of-date config.sh.
  case "$hint" in
  previous)
   if test X"$dynamic_ext" != X"$avail_ext"; then
    $cat <<EOM
NOTICE:  Your previous config.sh list may be incorrect.
The extensions now available to you are
 ${avail_ext}
but the default list from your previous config.sh is
 ${dynamic_ext}

EOM
   fi
   ;;
  esac
  ;;
 esac
 case "$dflt" in
 ") dflt=none;;
 esac
 rp="What extensions do you wish to load dynamically?"
 . ./myread
 case "$ans" in
?X: Use ' ' so a subsequent Configure will preserve that value.
 none) dynamic_ext=' ' ;;
 *) dynamic_ext="$ans" ;;
 esac

 case "$static_ext"
 in
 ")
```

```
  : Exclude those already listed in dynamic linking
  dflt=''
  for xxx in $avail_ext; do
   case " $dynamic_ext " in
   *" $xxx "*) ;;
   *) dflt="$dflt $xxx" ;;
   esac
  done
  set X $dflt
  shift
  dflt="$*"
  ;;
 *)  dflt="$static_ext"
  ;;
 esac

 case "$dflt" in
 '') dflt=none;;
 esac
 rp="What extensions do you wish to load statically?"
 . ./myread
 case "$ans" in
?X: Use ' ' so a subsequent Configure will preserve that value.
 none) static_ext=' ' ;;
 *) static_ext="$ans" ;;
 esac
 ;;
*)
 $cat <<EOM
A number of extensions are supplied with $package.  Answer "none"
to include no extensions.
Note that DynaLoader is always built and need not be mentioned here.

EOM
 case "$static_ext" in
 '') dflt="$avail_ext" ;;
 *) dflt="$static_ext"
  # Perhaps we are reusing an old out-of-date config.sh.
  case "$hint" in
  previous)
   if test X"$static_ext" != X"$avail_ext"; then
    $cat <<EOM
NOTICE:  Your previous config.sh list may be incorrect.
The extensions now available
 to you are
 ${avail_ext}
but the default list from your previous config.sh is
 ${static_ext}
```

```
EOM
   fi
   ;;
  esac
  ;;
 esac
 : Exclude those that are not xs extensions
 case "$dflt" in
 ") dflt=none;;
 esac
 rp="What extensions do you wish to include?"
 . ./myread
 case "$ans" in
?X: Use ' ' so a subsequent Configure will preserve that value.
 none) static_ext=' ' ;;
 *) static_ext="$ans" ;;
 esac
 ;;
esac
#
# Encode is a special case.  If we are building Encode as a static
# extension, we need to explicitly list its subextensions as well.
# For other nested extensions, this is handled automatically by
# the appropriate Makefile.PL.
case " $static_ext " in
 *" Encode "*) # Add the subextensions of Encode
 cd "$rsrc/cpan"
 for xxx in `ls Encode/*/Makefile.PL|awk -F/ '{print $2}'`; do
  static_ext="$static_ext Encode/$xxx"
  known_extensions="$known_extensions Encode/$xxx"
 done
 cd "$tdir"
 ;;
esac

set X $dynamic_ext $static_ext $nonxs_ext
shift
extensions="$*"

# Sanity check:
  We require an extension suitable for use with
# AnyDBM_File, as well as Fcntl and IO.  (Failure to have these
# should show up as failures in the test suite, but it's helpful to
# catch them now.) The 'extensions' list is normally sorted
# alphabetically, so we need to accept either
#    DB_File ... Fcntl ... IO  ....
# or something like
```

```
#    Fcntl ... NDBM_File ... IO  ....
case " $extensions"  in
*"_File "*" Fcntl "*" IO "*) ;; # DB_File
*" Fcntl "*"_File "*" IO "*) ;; # GDBM_File
*" Fcntl "*" IO "*"_File "*) ;; # NDBM_File
*) echo "WARNING: Extensions DB_File or *DBM_File, Fcntl, and IO not configured." >&4
  echo "WARNING: The Perl you are building will be quite crippled." >& 4
  ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/Extensions.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strerror.U,v 3.0.1.3 1994/05/13 15:20:27 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_strerror.U,v $
?RCS: Revision 3.0.1.3  1994/05/13  15:20:27  ram
?RCS: patch27: now uses new macro support for cleaner Strerror def
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  14:58:26  ram
?RCS: patch23: renamed strerror into Strerror to protect name space (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:08:56  ram
?RCS: patch16: protected code looking for sys_errnolist[] with @if
?RCS: patch16: added default value for d_sysernlst
?RCS:
?RCS: Revision
 3.0  1993/08/18  12:07:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_syserrlst d_sysernlst: Csym Findhdr
?MAKE: -pick add $@ %<
?S:d_syserrlst:
?S: This variable conditionally defines HAS_SYS_ERRLIST if sys_errlist[] is
?S: available to translate error numbers to strings.
?S:.
?S:d_sysernlst:
?S: This variable conditionally defines HAS_SYS_ERRNOLIST if sys_errnolist[]
```

```
?S: is available to translate error numbers to the symbolic name.
?S:.
?C:HAS_SYS_ERRLIST (SYSERRLIST):
?C: This symbol, if defined, indicates that the sys_errlist array is
?C: available to translate error numbers to strings. The extern int
?C: sys_nerr gives the size of that table.
?C:.
?C:HAS_SYS_ERRNOLIST (SYSERRNOLIST):
?C: This symbol, if defined, indicates that the sys_errnolist array is
?C: available to translate an errno code into its symbolic name (e.g.
?C: ENOENT). The extern int sys_nerrno gives the size of that table.
?C:.
?H:#$d_syserrlst HAS_SYS_ERRLIST /**/
?H:#$d_sysernlst HAS_SYS_ERRNOLIST /**/
?H:.
?D:d_sysernlst="
?T:val
:
 see if sys_errlist[] exists
echo " "
if test "X$d_syserrlst" = X; then
 if set sys_errlist val -a d_syserrlst; eval $csym; $val; then
  echo "You have sys_errlist[], so we could roll our own strerror."
  d_syserrlst="$define"
 else
  echo "You don't have sys_errlist[], so strerror() is welcome."
  d_syserrlst="$undef"
 fi
fi
@if d_sysernlst || HAS_SYS_ERRNOLIST
if set sys_errnolist val -a d_sysernlst; eval $csym; $val; then
 echo "(Symbolic error codes can be fetched via the sys_errnolist[] array.)"
 d_sysernlst="$define"
else
 echo "(However, I can't extract the symbolic error code out of errno.)"
 d_sysernlst="$undef"
fi
@end
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_strerror.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Csym.U,v 3.0.1.4 1995/07/25 13:36:29 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Csym.U,v $
?RCS: Revision 3.0.1.4  1995/07/25  13:36:29  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS: patch56: added quotes for OS/2 support
?RCS:
?RCS: Revision 3.0.1.3  1995/05/12  12:00:33  ram
?RCS: patch54: fixed C test program to bypass gcc builtin type checks (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/10/31  09:34:13  ram
?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U
?RCS:
?RCS: Revision
 3.0.1.1  1993/08/25  14:00:05  ram
?RCS: patch6: added ldflags as a conditional dependency and to compile line
?RCS: patch6: a final double quote was missing in csym variable after eval
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:Csym mistrustnm extern_C: Options contains libc libs runnm test \
 +cc +optimize +ccflags +ldflags run rm_try _exe d_cplusplus
?MAKE: -pick add $@ %<
?LINT:define csym
?LINT:use libc
?LINT:extern mistrustnm
?LINT:set mistrustnm
?S:csym:
?S: This shell variable is used internally by Configure to check
?S: whether a given C symbol is defined or not. A typical use is:
?S:  set symbol result [-fva] [previous]
?S:  eval $csym
?S: That will set result to 'true' if the function [-f], variable [-v]
?S: or array [-a] is defined, 'false' otherwise. If a previous value is
?S: given and the -r flag was provided on the command line, that value
?S: is reused without questioning.
?S:.
?S:extern_C:
?S: ANSI C
 requires 'extern' where C++ requires 'extern "C"'. This
?S: variable can be used in Configure to do the right thing.
?S:.
?S:mistrustnm:
```

```
?S: This variable can be used to establish a fallthrough for the cases
?S: where nm fails to find a symbol.  If usenm is false or usenm is true
?S: and mistrustnm is false, this variable has no effect.  If usenm is true
?S: and mistrustnm is "compile", a test program will be compiled to try to
?S: find any symbol that can't be located via nm lookup.  If mistrustnm is
?S: "run", the test program will be run as well as being compiled.
?S:.
?V:csym
?T:tval tx tlook tf tdc
?F:!try
: is a C symbol defined?
csym='tlook=$1;
case "$3" in
-v) tf=libc.tmp; tdc="";;
-a) tf=libc.tmp; tdc="[]";;
*) tlook="^$1\$"; tf=libc.list; tdc="()";;
esac;
case "$d_cplusplus" in
   $define) extern_C="extern \"C\"" ;;
   *)  extern_C="extern" ;;
esac;
tx=yes;
case "$reuseval-$4" in
true-) ;;
true-*) tx=no; eval "tval=\$$4"; case "$tval" in "") tx=yes;; esac;;
esac;
case "$tx"
 in
yes)
?X:
?X: Put symbol inside a printf to fool optimizing compilers...
?X:
?X: We use 'short' instead of 'int' to try to circumvent overzealous
?X: optimizing compilers using built-in prototypes for commonly used
?X: routines to complain when seeing a different external declaration. For
?X: instance, gcc 2.6.3 fails if we use 'int' and we attempt a test against
?X: memcpy() on machines where sizeof(int) == sizeof(char *) (the usual return
?X: type), the compiler assuming it's a built-in declaration given that the
?X: returned size matches. At least with 'short' we are safe! -- RAM, for ADO
?X:
?X: Let's thank GNU cc for making our lives so easy! :-)
?X: (An alternative for the future would be to use our knowledge about gcc
?X: to force a -fno-builtin option in the compile test, in case the 'short'
?X: trick is obsoleted by future gcc releases). -- RAM
?X:
 tval=false;
 if $test "$runnm" = true; then
  if $contains $tlook $tf >/dev/null 2>&1; then
```

```
   tval=true;
  elif $test "$mistrustnm"
 = compile -o "$mistrustnm" = run; then
   echo "$extern_C void *$1$tdc; void *(*(p()))$tdc { return &$1; } int main(int argc, char **argv) { if(p() && p() !=
(void *)argv[0]) return(0); else return(1); }"> try.c;
   $cc -o try $optimize $ccflags $ldflags try.c >/dev/null 2>&1 $libs && tval=true;
   $test "$mistrustnm" = run -a -x try && { $run ./try$_exe >/dev/null 2>&1 || tval=false; };
   $rm_try;
  fi;
 else
  echo "$extern_C void *$1$tdc; void *(*(p()))$tdc { return &$1; } int main(int argc, char **argv) { if(p() && p() !=
(void *)argv[0]) return(0); else return(1); }"> try.c;
  $cc -o try $optimize $ccflags $ldflags try.c $libs >/dev/null 2>&1 && tval=true;
  $rm_try;
 fi;
 ;;
*)
 case "$tval" in
 $define) tval=true;;
 *) tval=false;;
 esac;
 ;;
esac;
eval "$2=$tval"'
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/Csym.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Unix.U,v 3.0.1.1 1997/02/28 15:20:06 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Unix.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:20:06  ram
?RCS: patch61: created
?RCS:
?X:
?X: The purpose of this unit is to define things that are common across all
?X: known UNIX platforms. If Configure is ported/used on a non-UNIX
?X: environment, then some of the following variables can be redefined in hint
```

```
?X: files.
?X:
?MAKE:Unix _exe _a _o exe_ext lib_ext obj_ext path_sep \
 firstmakefile archobjs rm_try: Oldconfig rm
?MAKE: -pick add $@ %<
?S:_exe:
?S: This
 variable defines the extension used for executable files.
?S: DJGPP, Cygwin and OS/2 use '.exe'.  Stratus VOS uses '.pm'.
?S: On operating systems which do not require a specific extension
?S: for executable files, this variable is empty.
?S:.
?S:_a:
?S: This variable defines the extension used for ordinary library files.
?S: For unix, it is '.a'.  The '.' is included.  Other possible
?S: values include '.lib'.
?S:.
?S:_o:
?S: This variable defines the extension used for object files.
?S: For unix, it is '.o'.  The '.' is included.  Other possible
?S: values include '.obj'.
?S:.
?S:firstmakefile:
?S: This variable defines the first file searched by make.  On unix,
?S: it is makefile (then Makefile).  On case-insensitive systems,
?S: it might be something else.  This is only used to deal with
?S: convoluted make depend tricks.
?S:.
?S:archobjs:
?S: This variable defines any additional objects that must be linked
?S: in with the program on this architecture.  On unix, it is usually
?S: empty.
  It is typically used to include emulations of unix calls
?S: or other facilities.  For perl on OS/2, for example, this would
?S: include os2/os2.obj.
?S:.
?X: Metaconfig's Obsolete symbol stuff is too over-eager.  In the
?X: perl sources, it picks up things like "P" and "FLOCK" that are
?X: not used in the way Metaconfig thinks they are.  Thus I can't
?X: just declare these obsolete and then run metaconfig -o.
?X: Instead, I'll just handle them here.
?X: Sadly, history has conspired to give us a web of definitions;
?X: this could have been much simpler.
?S:lib_ext:
?S: This is an old synonym for _a.
?S:.
?S:exe_ext:
?S: This is an old synonym for _exe.
```

```
?S:.
?S:obj_ext:
?S: This is an old synonym for _o.
?S:.
?S:path_sep:
?S: This is an old synonym for p_ in Head.U, the character
?S: used to separate elements in the command shell search PATH.
?S:.
?S:rm_try:
?S: This is a cleanup variable for try test programs.
?S: Internal Configure use only.
?S:.
?LINT: change p_
?INIT::
 Trailing extension.  Override this in a hint file, if needed.
?INIT:: Extra object files, if any, needed on this platform.
?INIT:archobjs="
: Define several unixisms.
: Hints files or command line option can be used to override them.
: The convoluted testing is in case hints files set either the old
: or the new name.
case "$_exe" in
") case "$exe_ext" in
 ") ;;
 *) _exe="$exe_ext" ;;
 esac
 ;;
esac
case "$_a" in
") case "$lib_ext" in
   ") _a='.a';;
 *) _a="$lib_ext" ;;
 esac
 ;;
esac
case "$_o" in
") case "$obj_ext" in
 ") _o='.o';;
 *) _o="$obj_ext";;
 esac
 ;;
esac
case "$p_" in
") case "$path_sep" in
 ") p_=':';;
 *) p_="$path_sep";;
 esac
 ;;
```

```
esac
exe_ext=$_exe
lib_ext=$_a
obj_ext=$_o
path_sep=$p_

rm_try="$rm -f try try$_exe a.out .out try.[cho] try.$_o core core.try* try.core*"

@if firstmakefile
: Which makefile gets called first.  This is used by make depend.
case "$firstmakefile" in
") firstmakefile='makefile';;
esac

@end
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Unix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_usendir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_usendir.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:47:34  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: likewise for .o replaced by $_o
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_usendir i_ndir ndirlib: test Setvar Findhdr d_readdir _a
?MAKE: -pick add $@ %<
?S:d_usendir:
?S: This variable conditionally defines the EMULATE_NDIR symbol, which
?S: indicates
 to the C program that it should compile the ndir.c code
?S: provided with the package.
?S:.
?S:i_ndir (d_libndir):
```

```
?S: This variable conditionally defines the I_NDIR symbol, which
?S: indicates to the C program that it should include the system's
?S: version of ndir.h, rather than the one with this package.
?S:.
?S:ndirlib:
?S: The name of the library to include at linking stage to resolve ndir
?S: symbols. It is up to the makefile to use this value.
?S:.
?C:EMULATE_NDIR (USENDIR):
?C: This symbol, if defined, indicates that the program should compile
?C: the ndir.c code provided with the package.
?C:.
?C:I_NDIR (LIBNDIR):
?C: This symbol, if defined, indicates that the program should include the
?C: system's version of ndir.h, rather than the one with this package.
?C:.
?H:#$d_usendir EMULATE_NDIR  /**/
?H:#$i_ndir I_NDIR  /**/
?H:.
?T:val2
?LINT: set d_usendir i_ndir
: see if there are directory access routines out there
echo " "
if $test `./findhdr ndir.h` && \
 ( $test -r /usr/lib/libndir$_a
 || $test -r /usr/local/lib/libndir$_a ); then
 echo "Ndir library found." >&4
 if $test -r /usr/lib/libndir$_a; then
  ndirlib='-lndir'
 else
  ndirlib="/usr/local/lib/libndir$_a"
 fi
 val2="$define"
 val="$undef"
else
 ndirlib=''
 val2="$undef"
 case "$d_readdir" in
 "$define")
 echo "No ndir library found, but you have readdir() so we'll use that." >&4
  val="$undef";
  ;;
 *)
  echo "No ndir library found." >&4
  val="$define"
  ;;
 esac
fi
```

```
set d_usendir
eval $setvar
val="$val2"
set i_ndir
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_usendir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysselct.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysselct.U,v $
?RCS: Revision 3.0.1.1  1993/08/25  14:01:33  ram
?RCS: patch6: added default for i_sysselct
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Look wether <sys/select.h> exists
?X:
?MAKE:i_sysselct: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysselct:
?S: This variable conditionally defines I_SYS_SELECT, which indicates
?S: to the C program that it should include <sys/select.h> in
 order to
?S: get the definition of struct timeval.
?S:.
?C:I_SYS_SELECT (I_SYSSELECT):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/select.h> in order to get definition of struct timeval.
?C:.
?H:#$i_sysselct I_SYS_SELECT /**/
?H:.
?D:i_sysselct="
?LINT:set i_sysselct
: see if sys/select.h has to be included
```

```
set sys/select.h i_sysselct
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sysselct.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_gethent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_gethent: Inlibc
?MAKE: -pick add $@ %<
?S:d_gethent:
?S: This variable conditionally defines HAS_GETHOSTENT if gethostent() is
?S: available to dup file descriptors.
?S:.
?C:HAS_GETHOSTENT (GETHOSTENT):
?C: This symbol, if defined, indicates that the gethostent routine is
?C: available to lookup host names in some data base or other.
?C:.
?H:#$d_gethent HAS_GETHOSTENT  /**/
?H:.
?LINT:set
 d_gethent
: see if gethostent exists
set gethostent d_gethent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_gethent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_su_chown.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_su_chown.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:40  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_su_chown: Csym Setvar
?MAKE: -pick add $@ %<
?S:d_su_chown (d_rootchown):
?S: This variable conditionally defines the SU_CHOWN symbol, which
?S: indicates to the C program that only root can chown() the owner
?S: of a file.
?S:.
?C:SU_CHOWN (ROOT_CHOWN):
?C: This symbol, if defined, indicates that the system allows only root
?C: can
 change the owner of a file with chown().
?C:.
?H:#$d_su_chown SU_CHOWN /**/
?H:.
?LINT:set d_su_chown
: see if 'chown()' is restricted.
: but not too hard, as it is late and I am tired. -- HMS
echo " "
if set setreuid val -f d_su_chown; eval $csym; $val; then
 echo 'It looks like only root can chown() the owner of a file.' >&4
 val="$define"
else
 echo 'It looks like root or the owner can chown() a file away.' >&4
 val="$undef"
fi
set d_su_chown
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_su_chown.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2003 Jarkko Hietaniemi
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_aintl: Inlibc
?MAKE: -pick add $@ %<
?S:d_aintl:
?S: This variable conditionally defines the HAS_AINTL symbol, which
?S: indicates to the C program that the aintl() routine is available.
?S: If copysignl is also present we can emulate modfl.
?S:.
?C:HAS_AINTL:
?C: This symbol, if defined, indicates that the aintl routine is
?C: available.  If copysignl is also present we can emulate modfl.
?C:.
?H:#$d_aintl HAS_AINTL  /**/
?H:.
?LINT:set d_aintl
: see if aintl exists
set aintl d_aintl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_aintl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_mmap.U,v $
?RCS: Revision 3.0.1.1  1993/12/15  08:19:12  ram
?RCS: patch15: created
?RCS:
?MAKE:d_mmap: Inlibc
?MAKE: -pick add $@ %<
?S:d_mmap:
?S: This variable conditionally defines HAS_MMAP if mmap() is
?S: available to map a file into memory.
?S:.
?C:HAS_MMAP:
?C: This symbol, if defined, indicates that the mmap system call is
```

```
?C: available to map a file into memory.
?C:.
?H:#$d_mmap HAS_MMAP  /**/
?H:.
?LINT:set d_mmap
: see if mmap exists
set mmap d_mmap
eval $inlibc
```

Found in path(s):
*
/opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_mmap.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: myhostname.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:15:55  ram
?RCS: patch61: improved hostname lookup by using ypmatch when NIS is used
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:25:43  ram
?RCS: patch36: call ./xenix explicitly instead of relying on PATH
?RCS: patch36: now uses new Tr unit to convert to/from lowercase
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:06:20  ram
?RCS: patch30: now a little more clever for domain name guessing
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:18  ram
?RCS:
 Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:myhostname phostname mydomain: contains sed test Myread Oldconfig \
 Guess Loc awk echo sort uniq +usrinc rm hostcat Tr osname
?MAKE: -pick add $@ %<
?S:myhostname (hostname):
?S: This variable contains the eventual value of the MYHOSTNAME symbol,
?S: which is the name of the host the program is going to run on.
?S: The domain is not kept with hostname, but must be gotten from mydomain.
?S: The dot comes with mydomain, and need not be supplied by the program.
```

```
?S:.
?S:mydomain:
?S: This variable contains the eventual value of the MYDOMAIN symbol,
?S: which is the domain of the host the program is going to run on.
?S: The domain must be appended to myhostname to form a complete host name.
?S: The dot comes with mydomain, and need not be supplied by the program.
?S:.
?S:phostname:
?S: This variable contains the eventual value of the PHOSTNAME symbol,
?S: which is a command that can be fed to popen() to get the host name.
?S: The program
 should probably not presume that the domain is or isn't
?S: there already.
?S:.
?C:MYHOSTNAME (HOSTNAME):
?C: This symbol contains name of the host the program is going to run on.
?C: The domain is not kept with hostname, but must be gotten from MYDOMAIN.
?C: The dot comes with MYDOMAIN, and need not be supplied by the program.
?C: If gethostname() or uname() exist, MYHOSTNAME may be ignored. If MYDOMAIN
?C: is not used, MYHOSTNAME will hold the name derived from PHOSTNAME.
?C:.
?C:MYDOMAIN:
?C: This symbol contains the domain of the host the program is going to
?C: run on.  The domain must be appended to HOSTNAME to form a complete
?C: host name.  The dot comes with MYDOMAIN, and need not be supplied by
?C: the program.  If the host name is derived from PHOSTNAME, the domain
?C: may or may not already be there, and the program should check.
?C:.
?H:#define MYHOSTNAME "$myhostname"  /**/
?H:#define MYDOMAIN "$mydomain"  /**/
?H:.
?T:cont i tans tmp_re file
: now get the host name
echo
 " "
echo "Figuring out host name..." >&4
case "$myhostname" in
") cont=true
 echo 'Maybe "hostname" will work...'
 if tans=`sh -c hostname 2>&1` ; then
  myhostname=$tans
  phostname=hostname
  cont=''
 fi
 ;;
*) cont='';;
esac
if $test "$cont"; then
```

```
 if ./xenix; then
  echo 'Oh, dear.  Maybe "/etc/systemid" is the key...'
  if tans=`cat /etc/systemid 2>&1` ; then
   myhostname=$tans
   phostname='cat /etc/systemid'
   echo "Whadyaknow.  Xenix always was a bit strange..."
   cont=''
  fi
 elif $test -r /etc/systemid; then
  echo "(What is a non-Xenix system doing with /etc/systemid?)"
 fi
fi
if $test "$cont"; then
 echo 'No, maybe "uuname -l" will work...'
 if tans=`sh -c 'uuname -l' 2>&1` ; then
  myhostname=$tans
  phostname='uuname -l'
 else
  echo 'Strange.  Maybe "uname -n" will work...'
  if tans=`sh -c 'uname -n' 2>&1` ; then
   myhostname=$tans
   phostname='uname -n'
  else
   echo 'Oh well, maybe I can mine it out of whoami.h...'
   if tans=`sh -c $contains' sysname $usrinc/whoami.h'
 2>&1` ; then
    myhostname=`echo "$tans" | $sed 's/^.*"\(.*\)"/\1/'`
    phostname="sed -n -e ""/sysname/s/^.*\"\\(.*\\)\"/\1/{"" -e p -e q -e '}' <$usrinc/whoami.h"
   else
    case "$myhostname" in
    '') echo "Does this machine have an identity crisis or something?"
     phostname='';;
    *)
     echo "Well, you said $myhostname before..."
     phostname='echo $myhostname';;
    esac
   fi
  fi
 fi
fi
case "$myhostname" in
'') myhostname=noname ;;
esac
: you do not want to know about this
set $myhostname
myhostname=$1

: verify guess
```

```
if $test "$myhostname" ; then
 dflt=y
 rp='Your host name appears to be "'$myhostname'".' Right?"
 . ./myread
 case "$ans" in
 y*) ;;
 *) myhostname=";;
 esac
fi

: bad guess or no guess
while $test "X$myhostname" = X ; do
 dflt=''
 rp="Please type the (one word) name of your host:"
 . ./myread
 myhostname="$ans"
done

: translate upper to lower if necessary
case "$myhostname" in
*[A-Z]*)
 echo "(Normalizing case in your host name)"
 myhostname=`echo
 $myhostname | ./tr '[A-Z]' '[a-z]'`
 ;;
esac

?X: Do not ask for domain name if this is not used later on. In that
?X: case, the hostname may keep its domain name, but it doesn't matter.
@if MYDOMAIN || mydomain
case "$myhostname" in
*.*)
 dflt=`expr "X$myhostname" : "X[^.]*\(\..*\)"`
 myhostname=`expr "X$myhostname" : "X\([^.]*\)\."`
 echo "(Trimming domain name from host name--host name is now $myhostname)"
 ;;
*) case "$mydomain" in
 '')
?X:
?X: There is currently no way to say we do not want hostcat if mydomain is not
?X: used. One way to achieve that would be to put that code in a mydomain.U
?X: unit. However, we want to stick the sanity checks right after the domain
?X: name computation, or if none is done, right after the hostname computation.
?X:
  {
?X: If we use NIS, try ypmatch.
   test "X$hostcat" = "Xypcat hosts" &&
   ypmatch "$myhostname" hosts 2>/dev/null |\
```

```
   $sed -e 's/[  ]*#.*//; s/$/ /' > hosts && \
  $test -s hosts
 } || {
?X: Extract only
 the relevant hosts, reducing file size,
?X: remove comments, insert trailing space for later use.
       $hostcat | $sed -n -e "s/[  ]*#.*//; s/\$/ /
    /[  ]$myhostname[ . ]/p" > hosts
 }
 tmp_re="[ . ]"
 $test x`$awk "/[0-9].*[  ]$myhostname$tmp_re/ { sum++ }
       END { print sum }" hosts` = x1 || tmp_re="[  ]"
 dflt=.`$awk \
 "/[0-9].*[  ]$myhostname$tmp_re/ {for(i=2; i<=NF;i++) print \\\$i}" \
  hosts | $sort | $uniq | \
  $sed -n -e "s/$myhostname\.\([-a-zA-Z0-9_.]\)/\1/p"`
 case `$echo X$dflt` in
 X*\ *) echo "(Several hosts in /etc/hosts matched hostname)"
  dflt=.
  ;;
?X: There is no /etc/hosts on os390
 X.)
  if $test -f /etc/hosts; then
   echo "(You do not have fully-qualified names in /etc/hosts)"
  else
   echo "(I cannot locate a hosts database anywhere)"
  fi
  ;;
 esac
 case "$dflt" in
 .)
  tans=`./loc resolv.conf X /etc /usr/etc`
  if $test -f "$tans"; then
   echo "(Attempting domain name extraction from $tans)"
?X: Look for either a search
 or a domain directive.
   dflt=.`$sed -n -e 's/ / /g' \
     -e 's/^search  *\([^ ]*\).*/\1/p' $tans \
     | ./tr '[A-Z]' '[a-z]' 2>/dev/null`
   case "$dflt" in
   .) dflt=.`$sed -n -e 's/ / /g' \
        -e 's/^domain  *\([^ ]*\).*/\1/p' $tans \
        | ./tr '[A-Z]' '[a-z]' 2>/dev/null`
     ;;
   esac
  fi
  ;;
 esac
```

```
  case "$dflt" in
  .) echo "(No help from resolv.conf either -- attempting clever guess)"
   dflt=.`sh -c domainname 2>/dev/null`
   case "$dflt" in
   ") dflt='.';;
   .nis.*|.yp.*|.main.*) dflt=`echo $dflt | $sed -e 's/^\.[^.]*//'`;;
   esac
   ;;
  esac
  case "$dflt$osname" in
  .os390)
   file="//'SYS1.TCPPARMS(TCPDATA)'"
   echo "(Attempting domain name extraction from $file)"
   dflt=.`awk '/^DOMAINORIGIN/ {print $2}' "$file" 2>/dev/null`
   ;;
   esac
  case "$dflt" in
  .) echo "(Lost all hope -- silly guess then)"
   dflt='.nonet'
   ;;
  esac
  $rm -f hosts
  ;;
 *) dflt="$mydomain";;
 esac;;
esac
echo " "
rp="What is your domain name?"
.
 ./myread
tans="$ans"
case "$ans" in
") ;;
.*) ;;
*) tans=".$tans";;
esac
mydomain="$tans"

: translate upper to lower if necessary
case "$mydomain" in
*[A-Z]*)
 echo "(Normalizing case in your domain name)"
 mydomain=`echo $mydomain | ./tr '[A-Z]' '[a-z]'`
 ;;
esac

@end
: a little sanity check here
```

```
case "$phostname" in
") ;;
*)
 case `$phostname | ./tr '[A-Z]' '[a-z]'` in
 $myhostname$mydomain|$myhostname) ;;
 *)
  case "$phostname" in
  sed*)
   echo "(That doesn't agree with your whoami.h file, by the way.)"
   ;;
  *)
   echo "(That doesn't agree with your $phostname command, by the way.)"
   ;;
  esac
 ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/myhostname.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: prefix.U,v 3.1 1999/07/08 18:27:51 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: prefix.U,v $
?RCS: Revision 3.1  1999/07/08 18:27:51  doughera
?RCS: 5.005_5x version -- Andy Dougherty
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:44:05  ram
?RCS: patch49: new prefixexp variable holding a fully expanded prefix
?RCS: patch49: save off previous prefix value in oldprefix if changed (WED)
?RCS: patch49: added the INSTALLPREFIX define for C programs to use (WED)
?RCS:
?RCS:
 Revision 3.0.1.1  1994/08/29  16:31:34  ram
?RCS: patch32: created by ADO
```

```
?RCS:
?MAKE:prefix prefixexp +oldprefix: Getfile Loc Oldconfig cat package
?MAKE: -pick add $@ %<
?S:prefix:
?S: This variable holds the name of the directory below which the
?S: user will install the package.  Usually, this is /usr/local, and
?S: executables go in /usr/local/bin, library stuff in /usr/local/lib,
?S: man pages in /usr/local/man, etc.  It is only used to set defaults
?S: for things in bin.U, mansrc.U, privlib.U, or scriptdir.U.
?S:.
?S:prefixexp:
?S: This variable holds the full absolute path of the directory below
?S: which the user will install the package.  Derived from prefix.
?S:.
?S:oldprefix:
?S: This variable is set non-null if the prefix was previously defined
?S: and gets set to a new value. Used internally by Configure only.
?S:.
?C:INSTALLPREFIX:
?C: This symbol contains the name of the install prefix for this package.
?C:.
?H:#define INSTALLPREFIX "$prefix"  /**/
?H:.
:
 determine root of directory hierarchy where package will be installed.
case "$prefix" in
") dflt=`./loc . /usr/local /usr/local /local /opt /usr`
 ;;
*) dflt="$prefix"
 ;;
esac
$cat <<EOM

By default, $package will be installed in $dflt/bin, manual pages
under $dflt/man, etc..., i.e. with $dflt as prefix for all
installation directories. Typically this is something like /usr/local.
If you wish to have binaries under /usr/bin but other parts of the
installation under /usr/local, that's ok: you will be prompted
separately for each of the installation directories, the prefix being
only used to set the defaults.

EOM
fn=d~
rp='Installation prefix to use?'
. ./getfile
oldprefix="
case "$prefix" in
") ;;
```

```
*) case "$ans" in
 "$prefix") ;;
 *) oldprefix="$prefix";;
 esac
 ;;
esac

case "$ans" in
*?/) prefix=`echo "$ans" | sed 's/.$//'`
 ;;
*) prefix="$ans"
esac

case "$ansexp" in
*?/) prefixexp=`echo "$ansexp" | sed 's/.$//'`
 ;;
*) prefixexp="$ansexp"
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/prefix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libpth.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  16:08:49  ram
?RCS: patch61: new loclibpth variable
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:31:30  ram
?RCS: patch45: call ./mips instead of just mips (WED)
?RCS:
?RCS: Revision 3.0.1.4  1994/08/29  16:29:15  ram
?RCS: patch32: added /lib/pa1.1 for HP-UX specially tuned PA-RISC libs (ADO)
?RCS: patch32: fixed information message, making it clearer (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:03:54  ram
?RCS: patch30: added /usr/shlib to
```

```
 glibpth for shared-only libraries
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:26:57  ram
?RCS: patch27: fixed a typo (libpth -> glibpth)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:07:53  ram
?RCS: patch23: now asks for library directories to be searched (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit initializes the path for C library lookup.
?X:
?MAKE:libpth glibpth xlibpth plibpth loclibpth: \
 usrinc incpath test cat Myread Oldconfig
?MAKE: -pick add $@ %<
?S:libpth:
?S: This variable holds the general path (space-separated) used to find
?S: libraries. It is intended to be used by other units.
?S:.
?S:glibpth:
?S: This variable holds the general path (space-separated) used to
?S: find libraries.  It may contain directories that do not exist on
?S: this platform, libpth is the cleaned-up version.
?S:.
?S:xlibpth:
?S: This variable holds extra path (space-separated) used to find
?S: libraries on this platform,
 for example CPU-specific libraries
?S: (on multi-CPU platforms) may be listed here.
?S:.
?S:loclibpth:
?S: This variable holds the paths (space-separated) used to find local
?S: libraries.  It is prepended to libpth, and is intended to be easily
?S: set from the command line.
?S:.
?S:plibpth:
?S: Holds the private path used by Configure to find out the libraries.
?S: Its value is prepend to libpth. This variable takes care of special
?S: machines, like the mips.  Usually, it should be empty.
?S:.
?T: xxx dlist
?LINT:use usrinc
?INIT:: change the next line if compiling for Xenix/286 on Xenix/386
?INIT:xlibpth='/usr/lib/386 /lib/386'
?INIT:: Possible local library directories to search.
?INIT:loclibpth="/usr/local/lib /opt/local/lib /usr/gnu/lib"
```

```
?INIT:loclibpth="$loclibpth /opt/gnu/lib /usr/GNU/lib /opt/GNU/lib"
?INIT:
?INIT:: general looking path for locating libraries
?INIT:glibpth="/lib /usr/lib $xlibpth"
?INIT:glibpth="$glibpth /usr/ccs/lib /usr/ucblib /usr/local/lib"
?X: /shlib
 is for Digital Unix 4.0
?X: /usr/shlib is for OSF/1 systems.
?INIT:test -f /usr/shlib/libc.so && glibpth="/usr/shlib $glibpth"
?INIT:test -f /shlib/libc.so     && glibpth="/shlib $glibpth"
?INIT:
?INIT:: Private path used by Configure to find libraries.  Its value
?INIT:: is prepended to libpth. This variable takes care of special
?INIT:: machines, like the mips.  Usually, it should be empty.
?INIT:plibpth="
?INIT:
: Set private lib path
case "$plibpth" in
") if ./mips; then
?X: on mips, we DO NOT want /lib, and we want $incpath/usr/lib
  plibpth="$incpath/usr/lib /usr/local/lib /usr/ccs/lib"
 fi;;
esac
case "$libpth" in
' ') dlist=";;
") dlist="$loclibpth $plibpth $glibpth";;
*) dlist="$libpth";;
esac

: Now check and see which directories actually exist, avoiding duplicates
libpth="
for xxx in $dlist
do
   if $test -d $xxx; then
  case " $libpth " in
  *" $xxx "*) ;;
  *) libpth="$libpth $xxx";;
  esac
   fi
done
$cat <<'EOM'

Some systems have incompatible or broken versions
 of libraries.  Among
the directories listed in the question below, please remove any you
know not to be holding relevant libraries, and add any that are needed.
Say "none" for none.
```

```
EOM
case "$libpth" in
") dflt='none';;
*)
?X: strip leading space
 set X $libpth
 shift
 dflt=${1+"$@"}
 ;;
esac
rp="Directories to use for library searches?"
. ./myread
case "$ans" in
none) libpth=' ';;
*) libpth="$ans";;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/libpth.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:uselongdouble: Myread Oldconfig Setvar cat test usemorebits
?MAKE: -pick add $@ %<
?Y:TOP
?S:uselongdouble:
?S: This variable conditionally defines the USE_LONG_DOUBLE symbol,
?S: and indicates that long doubles should be used when available.
?S:.
?C:USE_LONG_DOUBLE:
?C: This symbol, if defined, indicates that long doubles should
?C: be used when available.
?C:.
?H:?%<:#ifndef USE_LONG_DOUBLE
?H:?%<:#$uselongdouble USE_LONG_DOUBLE  /**/
?H:?%<:#endif
?H:.
?LINT:extern ccflags
?LINT:use usemorebits
?F:!uselongdouble.cbu
: Check for uselongdouble support
```

```
case "$ccflags" in
*-DUSE_LONG_DOUBLE*|*-DUSE_MORE_BITS*) uselongdouble="$define" ;;
esac

case "$uselongdouble" in
$define|true|[yY]*) dflt='y';;
*)
 dflt='n';;
esac
cat <<EOM

Perl can be built to take advantage of long doubles which
(if available) may give more accuracy and range for floating point numbers.

If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp='Try to use long doubles if available?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*)      val="$undef" ;;
esac
set uselongdouble
eval $setvar

case "$uselongdouble" in
true|[yY]*) uselongdouble="$define" ;;
esac

: Look for a hint-file generated 'call-back-unit'.  If the
: user has specified that long doubles should be used,
: we may need to set or change some other defaults.
if $test -f uselongdouble.cbu; then
   echo "Your platform has some specific hints regarding long doubles, using them..."
   . ./uselongdouble.cbu
else
   case "$uselongdouble" in
 $define)
  $cat <<EOM
(Your platform does not have any specific hints for long doubles.)
EOM
 ;;
   esac
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/uselongdbl.U

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```
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_wcrtomb: Inlibc
?MAKE: -pick add $@ %<
?S:d_wcrtomb:
?S: This variable conditionally defines the HAS_WCRTOMB symbol if the
?S: wcrtomb() routine is available to be used to convert a wide character
?S: into a multi-byte character.
?S:.
?C:HAS_WCRTOMB:
?C: This symbol, if defined, indicates that the wcrtomb routine is
?C: available to convert a wide character into a multi-byte character.
?C:.
?H:#$d_wcrtomb HAS_WCRTOMB /**/
?H:.
?LINT: set d_wcrtomb
: see if wcrtomb exists
set wcrtomb d_wcrtomb
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_wcrtomb.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_varhdr.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:54:42  ram
?RCS: patch61: varargs script now starts with leading "startsh"
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:21:02  ram
```

```
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/13  15:26:05  ram
?RCS: patch27: this unit now supersedes old i_stdarg.U and i_varargs.U
?RCS: patch27: modified to avoid spurious Whoa warnings (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:49  ram
?RCS: Baseline for
 dist 3.0 netwide release.
?RCS:
?MAKE:i_stdarg i_varargs i_varhdr: cat +cc +ccflags rm test Setvar \
 Findhdr Warn startsh _o
?MAKE: -pick add $@ %<
?S:i_stdarg:
?S: This variable conditionally defines the I_STDARG symbol, which
?S: indicates to the C program that <stdarg.h> exists and should
?S: be included.
?S:.
?S:i_varargs:
?S: This variable conditionally defines I_VARARGS, which indicates
?S: to the C program that it should include <varargs.h>.
?S:.
?S:i_varhdr:
?S: Contains the name of the header to be included to get va_dcl definition.
?S: Typically one of varargs.h or stdarg.h.
?S:.
?C:I_STDARG:
?C: This symbol, if defined, indicates that <stdarg.h> exists and should
?C: be included.
?C:.
?C:I_VARARGS:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <varargs.h>.
?C:.
?H:#$i_stdarg I_STDARG  /**/
?H:#$i_varargs I_VARARGS /**/
?H:.
?W:%<:va_dcl
?F:!varargs
?T:valstd
?LINT:set i_stdarg i_varargs
?X:
?X: Don't use setvar because the varags test
 below might override these.
?X: Actually, the messages here are just informative. We don't wish to set
?X: i_varargs or i_stdarg to their final value before knowing which of the
?X: two we'll include.
?X:
```

```
: see if stdarg is available
echo " "
if $test `./findhdr stdarg.h`; then
 echo "<stdarg.h> found." >&4
 valstd="$define"
else
 echo "<stdarg.h> NOT found." >&4
 valstd="$undef"
fi

: see if varags is available
echo " "
if $test `./findhdr varargs.h`; then
 echo "<varargs.h> found." >&4
else
 echo "<varargs.h> NOT found, but that's ok (I hope)." >&4
fi

?X:
?X: if you have stdarg.h, you need to support prototypes to actually use it;
?X: but if stdarg.h exists and the compiler doesn't support prototypes (for some
?X: bizarre reason), we'll fall back to varargs.h anyway so it's not so bad.
?X:
: set up the varargs testing programs
$cat > varargs.c <<EOP
#ifdef I_STDARG
#include <stdarg.h>
#endif
#ifdef I_VARARGS
#include <varargs.h>
#endif

#ifdef I_STDARG
int f(char *p, ...)
#else
int
 f(va_alist)
va_dcl
#endif
{
 va_list ap;
#ifndef I_STDARG
 char *p;
#endif
#ifdef I_STDARG
 va_start(ap,p);
#else
 va_start(ap);
```

```
 p = va_arg(ap, char *);
#endif
 va_end(ap);
}
EOP
$cat > varargs <<EOP
$startsh
if $cc -c $ccflags -D\$1 varargs.c >/dev/null 2>&1; then
 echo "true"
else
 echo "false"
fi
$rm -f varargs$_o
EOP
chmod +x varargs

: now check which varargs header should be included
echo " "
i_varhdr=''
case "$valstd" in
"$define")
 if `./varargs I_STDARG`; then
  val='stdarg.h'
 elif `./varargs I_VARARGS`; then
  val='varargs.h'
 fi
 ;;
*)
 if `./varargs I_VARARGS`; then
  val='varargs.h'
 fi
 ;;
esac
case "$val" in
'')
 ./warn "I could not find the definition for va_dcl... You have problems..."
 val="$undef"; set i_stdarg; eval $setvar
 val="$undef"; set i_varargs; eval $setvar
 ;;
*)
 set i_varhdr
 eval $setvar
 case "$i_varhdr" in
 stdarg.h)
  val="$define"; set i_stdarg; eval $setvar
  val="$undef"; set i_varargs; eval $setvar
  ;;
 varargs.h)
```

```
  val="$undef"; set i_stdarg;
 eval $setvar
  val="$define"; set i_varargs; eval $setvar
  ;;
 esac
 echo "We'll include <$i_varhdr> to get va_dcl definition." >&4;;
esac
$rm -f varargs*
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_varhdr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getnetbyaddr_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getnetbyaddr_r getnetbyaddr_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getnetbyaddr_r:
?S: This variable conditionally defines the HAS_GETNETBYADDR_R symbol,
?S: which indicates to the C program that the getnetbyaddr_r()
?S: routine is available.
?S:.
?S:getnetbyaddr_r_proto:
?S: This variable encodes the prototype of getnetbyaddr_r.
?S: It is zero if d_getnetbyaddr_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getnetbyaddr_r
?S: is defined.
?S:.
?C:HAS_GETNETBYADDR_R:
?C: This symbol, if defined, indicates that
 the getnetbyaddr_r routine
?C: is available to getnetbyaddr re-entrantly.
?C:.
?C:GETNETBYADDR_R_PROTO:
?C: This symbol encodes the prototype of getnetbyaddr_r.
?C: It is zero if d_getnetbyaddr_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getnetbyaddr_r
?C: is defined.
?C:.
?H:#$d_getnetbyaddr_r HAS_GETNETBYADDR_R /**/
```

```
?H:#define GETNETBYADDR_R_PROTO $getnetbyaddr_r_proto /**/
?H:.
?T:try hdrs d_getnetbyaddr_r_proto
: see if getnetbyaddr_r exists
set getnetbyaddr_r d_getnetbyaddr_r
eval $inlibc
case "$d_getnetbyaddr_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getnetbyaddr_r_proto:$usethreads" in
 ":define") d_getnetbyaddr_r_proto=define
  set d_getnetbyaddr_r_proto getnetbyaddr_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getnetbyaddr_r_proto" in
 define)
 case "$getnetbyaddr_r_proto" in
 "|0) try='int getnetbyaddr_r(unsigned long, int, struct netent*, char*, size_t, struct netent**, int*);'
 ./protochk
 "$extern_C $try" $hdrs && getnetbyaddr_r_proto=I_UISBWRE ;;
 esac
 case "$getnetbyaddr_r_proto" in
 "|0) try='int getnetbyaddr_r(long, int, struct netent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=I_LISBI ;;
 esac
 case "$getnetbyaddr_r_proto" in
 "|0) try='struct netent* getnetbyaddr_r(in_addr_t, int, struct netent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=S_TISBI ;;
 esac
 case "$getnetbyaddr_r_proto" in
 "|0) try='struct netent* getnetbyaddr_r(long, int, struct netent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=S_LISBI ;;
 esac
 case "$getnetbyaddr_r_proto" in
 "|0) try='int getnetbyaddr_r(in_addr_t, int, struct netent*, struct netent_data*);'
 ./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=I_TISD ;;
 esac
 case "$getnetbyaddr_r_proto" in
 "|0) try='int getnetbyaddr_r(long, int, struct netent*, struct netent_data*);'
 ./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=I_LISD
 ;;
 esac
 case "$getnetbyaddr_r_proto" in
 "|0) try='int getnetbyaddr_r(int, int, struct netent*, struct netent_data*);'
 ./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=I_IISD ;;
 esac
 case "$getnetbyaddr_r_proto" in
```

```
"|0) try='int getnetbyaddr_r(uint32_t, int, struct netent*, char*, size_t, struct netent**, int*);'
./protochk "$extern_C $try" $hdrs && getnetbyaddr_r_proto=I_uISBWRE ;;
esac
case "$getnetbyaddr_r_proto" in
"|0) d_getnetbyaddr_r=undef
 getnetbyaddr_r_proto=0
 echo "Disabling getnetbyaddr_r, cannot determine prototype." >&4 ;;
* ) case "$getnetbyaddr_r_proto" in
 REENTRANT_PROTO*) ;;
 *) getnetbyaddr_r_proto="REENTRANT_PROTO_$getnetbyaddr_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "getnetbyaddr_r has no prototype, not using it." >&4 ;;
 esac
 d_getnetbyaddr_r=undef
 getnetbyaddr_r_proto=0
 ;;
esac
;;
*) getnetbyaddr_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getnetbyaddr_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setlocale.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_setlocale.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  06:57:51  ram
?RCS: patch30: created
?RCS:
?MAKE:d_setlocale: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_setlocale:
?S: This variable conditionally defines HAS_SETLOCALE if setlocale() is
?S: available to handle locale-specific ctype implementations.
?S:.
?C:HAS_SETLOCALE:
?C: This symbol, if defined, indicates that the setlocale
 routine is
?C: available to handle locale-specific ctype implementations.
?C:.
?H:#$d_setlocale HAS_SETLOCALE /**/
?H:.
?LINT:set d_setlocale
: see if setlocale exists
set setlocale d_setlocale
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setlocale.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_msgget.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msgget.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_msgget: Inlibc
?MAKE: -pick add $@ %<
?S:d_msgget:
?S: This variable conditionally defines the HAS_MSGGET symbol, which
?S: indicates to the C program that the msgget() routine is available.
?S:.
?C:HAS_MSGGET:
?C: This symbol, if defined, indicates that the msgget() routine is
?C: available to get a new message queue.
?C:.
?H:#$d_msgget
```

```
 HAS_MSGGET  /**/
?H:.
?LINT:set d_msgget
: see if msgget exists
set msgget d_msgget
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_msgget.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysutsname.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysutsname: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysutsname:
?S: This variable conditionally defines the I_SYSUTSNAME symbol,
?S: and indicates whether a C program should include <sys/utsname.h>.
?S:.
?C:I_SYSUTSNAME:
?C: This symbol, if defined, indicates that <sys/utsname.h> exists and
?C: should be included.
?C:.
?H:#$i_sysutsname I_SYSUTSNAME  /**/
?H:.
?LINT:set i_sysutsname
: see if this is a sys/utsname.h system
set sys/utsname.h i_sysutsname
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysutsname.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
```

```
?MAKE:d_isinfl: Inlibc
?MAKE: -pick add $@ %<
?S:d_isinfl:
?S: This variable conditionally defines the HAS_ISINFL symbol, which
?S: indicates to the C program that the isinfl() routine is available.
?S:.
?C:HAS_ISINFL:
?C: This symbol, if defined, indicates that the isinfl routine is
?C: available to check whether a long double is an infinity.
?C:.
?H:#$d_isinfl HAS_ISINFL  /**/
?H:.
?LINT:set d_isinfl
: see if isinfl exists
set isinfl d_isinfl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_isinfl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_PORTAR.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_PORTAR.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:08:42  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:40  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_PORTAR: cat +cc rm Setvar
?MAKE: -pick add $@ %<
?S:d_PORTAR:
?S: This variable conditionally handles definition of PORTAR,
?S: a creation of greater minds than I can imagine.
?S:.
?C:PORTAR:
?C: This manifest constant must
```

```
 be defined to 1 for some implementations
?C: of ar.h to get the portable ar most everybody uses.
?C:.
?L:ar_fmag:
?L:ARFMAG:
?L:SARMAG:
?H:#$d_PORTAR PORTAR 1 /**/
?H:.
?F:!portar
?LINT:set d_PORTAR
: see if we need to define PORTAR
echo " "
echo 'Checking to see if we need to define PORTAR for portable archives...' >&4
$cat >portar.c <<'EOCP'
#include <ar.h>
int main() {
 char *arfmag = ARFMAG;
 int sarmag = SARMAG;
 struct ar_hdr arh;

 strncpy(arh.ar_fmag, arfmag, 2);

#ifdef PORTAR
 printf("D\n");
#else
 printf("U\n");
#endif
 exit(0);}
EOCP
if $cc -o portar portar.c >/dev/null 2>&1 || \
 $cc -DPORTAR=1 -o portar portar.c >/dev/null 2>&1 ; then
 case "`./portar`" in
 D)
  val="$define"
  echo "We'll be defining PORTAR for you."
  ;;
 U)
  val="$undef"
  echo "We don't seem to need PORTAR defined here."
  ;;
 *)
  val="$define"
  echo "(My test program gave me an unexpected value!)"
  echo "I'll just define PORTAR to be sure."
  ;;
 esac
else
 echo "(Strange, I couldn't get my test
```

```
 program to compile.)"
 echo "We'll just define PORTAR in this case."
 val="$define"
fi
set d_PORTAR
eval $setvar
$rm -f portar*
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_PORTAR.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_mntent.U,v $
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_mntent: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_mntent:
?S: This variable conditionally defines the I_MNTENT symbol, and indicates
?S: whether a C program should include <mntent.h>.
?S:.
?C:I_MNTENT:
?C: This symbol, if defined, indicates that <mntent.h> exists and
?C: should be included.
?C:.
?H:#$i_mntent I_MNTENT  /**/
?H:.
?LINT:set i_mntent
: see if this is a mntent.h system
set mntent.h i_mntent
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_mntent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_open3.U,v 3.0.1.2 1997/02/28 15:37:12 ram Exp $
?RCS:
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```

```
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_open3.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:37:12  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  13:58:26  ram
?RCS: patch56: added knowledge of the O_NONBLOCK symbol
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_open3: Compile test cat h_fcntl h_sysfile rm_try Setvar Findhdr run i_stdlib
?MAKE: -pick add $@ %<
?X: It would be easy to separate the
 h_O_stuff from this.
?X: Is there a reason to do so? -- HMS
?S:d_open3:
?S: This variable conditionally defines the HAS_OPEN3 manifest constant,
?S: which indicates to the C program that the 3 argument version of
?S: the open(2) function is available.
?S:.
?C:HAS_OPEN3 (OPEN3):
?C: This manifest constant lets the C program know that the three
?C: argument form of open(2) is available.
?C:.
?H:#$d_open3 HAS_OPEN3  /**/
?H:.
?W:%<:O_RDONLY O_WRONLY O_RDWR O_NDELAY O_APPEND O_SYNC O_CREAT O_TRUNC
?W:%<:O_EXCL O_NONBLOCK
?F:!try
?LINT:set d_open3
?LINT:change h_fcntl h_sysfile
: Locate the flags for 'open()'
echo " "
$cat >try.c <<EOCP
#include <sys/types.h>
#ifdef I_FCNTL
#include <fcntl.h>
#endif
#ifdef I_SYS_FILE
#include <sys/file.h>
#endif
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
```

```
#endif
int main() {
 if(O_RDONLY);
#ifdef O_TRUNC
 exit(0);
#else
 exit(1);
#endif
}
EOCP
: check sys/file.h first to get FREAD on Sun
if $test `./findhdr sys/file.h` && \
  set try -DI_SYS_FILE
 && eval $compile; then
 h_sysfile=true;
 echo "<sys/file.h> defines the O_* constants..." >&4
 if $run ./try; then
  echo "and you have the 3 argument form of open()." >&4
  val="$define"
 else
  echo "but not the 3 argument form of open().  Oh, well." >&4
  val="$undef"
 fi
elif $test `./findhdr fcntl.h` && \
  set try -DI_FCNTL && eval $compile; then
 h_fcntl=true;
 echo "<fcntl.h> defines the O_* constants..." >&4
 if $run ./try; then
  echo "and you have the 3 argument form of open()." >&4
  val="$define"
 else
  echo "but not the 3 argument form of open().  Oh, well." >&4
  val="$undef"
 fi
else
 val="$undef"
 echo "I can't find the O_* constant definitions!  You got problems." >&4
fi
set d_open3
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_open3.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_memcpy.U 1 2006-08-24 12:32:52Z rmanfredi $

```
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memcpy.U,v $
?RCS: Revision 3.0.1.1  1993/09/13  16:02:58  ram
?RCS: patch10: removed text recommending bcopy over memcpy (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:34  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_memcpy: Inlibc
?MAKE: -pick add $@ %<
?S:d_memcpy:
?S: This variable conditionally defines the HAS_MEMCPY symbol, which
?S: indicates to the C program that the memcpy() routine is available
?S: to copy blocks of
 memory.
?S:.
?C:HAS_MEMCPY (MEMCPY):
?C: This symbol, if defined, indicates that the memcpy routine is available
?C: to copy blocks of memory.
?C:.
?H:#$d_memcpy HAS_MEMCPY /**/
?H:.
?LINT:set d_memcpy
: see if memcpy exists
set memcpy d_memcpy
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_memcpy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtoull: Inlibc d_longlong Compile cat run
```

```
?MAKE: -pick add $@ %<
?S:d_strtoull:
?S: This variable conditionally defines the HAS_STRTOULL symbol, which
?S: indicates to the C program that the strtoull() routine is available.
?S:.
?C:HAS_STRTOULL:
?C: This symbol, if defined, indicates that the strtoull routine is
?C: available to convert strings to unsigned long longs.
?C:.
?H:#$d_strtoull HAS_STRTOULL  /**/
?H:.
?F:!try
: see if strtoull exists
set strtoull d_strtoull
eval $inlibc

case "$d_longlong-$d_strtoull" in
"$define-$define")
 $cat <<EOM
Checking whether your strtoull() works okay...
EOM
 $cat >try.c <<'EOCP'
#include <stdlib.h>
#include <errno.h>
#ifdef __hpux
#define strtoull __strtoull
#endif
#include
 <stdio.h>
static int bad = 0;
void check(const char *s, long long eull, int een) {
 long long gull;
 errno = 0;
 gull = strtoull(s, 0, 10);
 if (!((gull == eull) && (errno == een)))
  bad++;
}
int main() {
 check(" 1",                                1LL, 0);
 check(" 0",                                0LL, 0);
 check("18446744073709551615",  18446744073709551615ULL, 0);
 check("18446744073709551616",  18446744073709551615ULL, ERANGE);
#if 0 /* strtoull() for /^-/ strings is undefined. */
 check("-1",                  18446744073709551615ULL, 0);
 check("-18446744073709551614",                  2LL, 0);
 check("-18446744073709551615",                  1LL, 0);
 check("-18446744073709551616", 18446744073709551615ULL, ERANGE);
 check("-18446744073709551617", 18446744073709551615ULL, ERANGE);
```

```
#endif
 if (!bad)
  printf("ok\n");
}
EOCP
 set try
 if eval $compile; then
  case "`$run ./try`" in
  ok) echo "Your strtoull() seems to be working okay."
 ;;
  *) cat <<EOM >&4
Your strtoull() doesn't seem to be working okay.
EOM
     d_strtoull="$undef"
     ;;
  esac
 else
  echo "(I can't seem to compile the test program--assuming it doesn't)"
  d_strtoull="$undef"
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strtoull.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpgrp.U,v 3.0.1.1 1997/02/28 15:34:28 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_getpgrp.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:34:28  ram
?RCS: patch61: new USE_BSD_GETPGRP to detect the getpgrp() flavor
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getpgrp d_bsdgetpgrp: Guess Inlibc Setvar cat rm_try \
 +cc +ccflags +ldflags +libs i_unistd i_stdlib run
?MAKE: -pick add $@ %<
```

```
?S:d_getpgrp:
?S: This variable conditionally defines HAS_GETPGRP if getpgrp() is
?S: available
 to get the current process group.
?S:.
?S:d_bsdgetpgrp:
?S: This variable conditionally defines USE_BSD_GETPGRP if
?S: getpgrp needs one arguments whereas USG one needs none.
?S:.
?C:HAS_GETPGRP (GETPGRP):
?C: This symbol, if defined, indicates that the getpgrp routine is
?C: available to get the current process group.
?C:.
?C:USE_BSD_GETPGRP:
?C: This symbol, if defined, indicates that getpgrp needs one
?C: arguments whereas USG one needs none.
?C:.
?H:#$d_getpgrp HAS_GETPGRP  /**/
?H:#$d_bsdgetpgrp USE_BSD_GETPGRP /**/
?H:.
?T:xxx
?F:!try
?LINT:set d_getpgrp d_bsdgetpgrp
: see if getpgrp exists
set getpgrp d_getpgrp
eval $inlibc

@if USE_BSD_GETPGRP || d_bsdgetpgrp
case "$d_getpgrp" in
"$define")
 echo " "
 echo "Checking to see which flavor of getpgrp is in use..."
 $cat >try.c <<EOP
#include <stdio.h>
#$i_unistd I_UNISTD
#include <sys/types.h>
#ifdef I_UNISTD
#  include <unistd.h>
#endif
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
{
 if (getuid()
 == 0) {
  printf("(I see you are running Configure as super-user...)\n");
```

```
  setuid(1);
 }
#ifdef TRY_BSD_PGRP
 if (getpgrp(1) == 0)
  exit(0);
#else
 if (getpgrp() > 0)
  exit(0);
#endif
 exit(1);
}
EOP
 if $cc -o try -DTRY_BSD_PGRP $ccflags $ldflags try.c $libs >/dev/null 2>&1 && $run ./try; then
  echo "You have to use getpgrp(pid) instead of getpgrp()." >&4
  val="$define"
 elif $cc -o try $ccflags $ldflags try.c $libs >/dev/null 2>&1 && $run ./try; then
  echo "You have to use getpgrp() instead of getpgrp(pid)." >&4
  val="$undef"
 else
  echo "I can't seem to compile and run the test program."
  if ./usg; then
   xxx="a USG one, i.e. you use getpgrp()."
  else
   # SVR4 systems can appear rather BSD-ish.
   case "$i_unistd" in
   $undef)
    xxx="a BSD one, i.e. you use getpgrp(pid)."
    val="$define"
    ;;
   $define)
    xxx="probably a USG one, i.e. you use getpgrp()."
    val="$undef"
    ;;
   esac
  fi
  echo "Assuming your getpgrp is $xxx" >&4
 fi
 ;;
*) val="$undef";;
esac
set
 d_bsdgetpgrp
eval $setvar
$rm_try
@end
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/U/modified/d_getpgrp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_memmove.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memmove.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_memmove: Inlibc
?MAKE: -pick add $@ %<
?S:d_memmove:
?S: This variable conditionally defines the HAS_MEMMOVE symbol, which
?S: indicates to the C program that the memmove() routine is available
?S: to copy potentially overlapping blocks of memory.
?S:.
?C:HAS_MEMMOVE:
?C: This symbol, if defined, indicates that the memmove routine
 is available
?C: to copy potentially overlapping blocks of memory. This should be used
?C: only when HAS_SAFE_BCOPY is not defined. If neither is there, roll your
?C: own version.
?C:.
?H:#$d_memmove HAS_MEMMOVE /**/
?H:.
?LINT:set d_memmove
: see if memmove exists
set memmove d_memmove
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_memmove.U
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```
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Head.U,v $
?RCS: Revision 3.0.1.9  1997/02/28  15:02:09  ram
?RCS: patch61: make sure we unset CDPATH for shells that support this
?RCS: patch61: improved Korn shell detection and handling
?RCS:
?RCS: Revision 3.0.1.8  1995/07/25  13:40:02  ram
?RCS: patch56: added SVR4-ish /opt directories to path list (ADO)
?RCS: patch56: OS/2 platforms are using another path separator
?RCS:
?RCS: Revision 3.0.1.7  1995/03/21  08:46:15  ram
?RCS: patch52: definition of paths wrongly added spurious ':' chars
?RCS:
?RCS:
 Revision 3.0.1.6  1994/10/29  15:54:19  ram
?RCS: patch36: make sure ENV is unset before calling /bin/ksh
?RCS:
?RCS: Revision 3.0.1.5  1994/08/29  16:03:44  ram
?RCS: patch32: now sets PATH only using existing directories
?RCS:
?RCS: Revision 3.0.1.4  1994/06/20  06:54:28  ram
?RCS: patch30: now computes its invocation name into 'me'
?RCS: patch30: symbol me is made visible to all units read-only
?RCS:
?RCS: Revision 3.0.1.3  1993/12/15  08:15:07  ram
?RCS: patch15: added /sbin:/usr/sbin:/usr/libexec in PATH for BSD/386
?RCS:
?RCS: Revision 3.0.1.2  1993/11/10  17:32:35  ram
?RCS: patch14: ensure PATH is reset to '.' before testing for alias
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:38:07  ram
?RCS: patch7: not all 'test' programs support the -x option
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This is the very first unit in the Configure script.  It is mostly just
?X: things to keep people from getting
 into a tizzy right off the bat.
?X:
?MAKE:Head:
?MAKE: -pick wipe $@ %<
?V:PATH p_ _exe me newsh
```

```
?T:argv Id p paths OS2_SHELL DJGPP
?T:inksh needksh avoidksh newsh changesh reason
?F:!*
?LINT:extern ENV CDPATH SHELL MACHTYPE
?LINT:change ENV CDPATH
?LINT:nocomment
#! /bin/sh
#
# If these # comments don't work, trim them. Don't worry about any other
# shell scripts, Configure will trim # comments from them for you.
#
# (If you are trying to port this package to a machine without sh,
# I would suggest you have a look at the prototypical config_h.SH file
# and edit it to reflect your system. Some packages may include samples
# of config.h for certain machines, so you might look for one of those.)
#
?X:
?X: NOTE THAT A CONFIGURE SCRIPT IS IN THE PUBLIC DOMAIN (whether or not
?X: the software which uses it is in the public domain).
?X:
# Yes, you may rip this off to use in other distribution packages. This
# script belongs to the public domain and cannot be copyrighted.
#
?X:
?X: WE ASK YOU
 NOT TO REMOVE OR ALTER THE FOLLOWING PARAGRAPH, PLEASE:
?X:
# Note: this Configure script was generated automatically. Rather than
# working with this copy of Configure, you may wish to get metaconfig.
# The dist package (which contains metaconfig) is available via SVN:
#     svn co https://svn.code.sf.net/p/dist/code/trunk/dist
?X:
?X: NOTA BENE:
?X: If you develop you own version of metaconfig based on this work,
?X: you have to add some comments telling that the script was generated
?X: by your version, not mine: It credits your work.
?X:

# $Id: Head.U 6 2006-08-25 22:21:46Z rmanfredi $
#
# Generated on <DATE> [metaconfig <VERSION> PL<PATCHLEVEL>]

cat >c1$$ <<EOF
ARGGGHHHH!!!!!

SCO csh still thinks true is false.  Write to SCO today and tell them that next
year Configure ought to "rm /bin/csh" unless they fix their blasted shell. :-)
```

```
(Actually, Configure ought to just patch csh in place.  Hmm.  Hmmmmm.  All
we'd have to do is go in and swap the && and || tokens, wherever they are.)

[End
 of diatribe. We now return you to your regularly scheduled programming...]
EOF
cat >c2$$ <<EOF

OOPS!  You naughty creature!  You didn't run Configure with sh!
I will attempt to remedy the situation by running sh for you...
EOF

true || cat c1$$ c2$$
true || exec sh $0 $argv:q

(exit $?0) || cat c2$$
(exit $?0) || exec sh $0 $argv:q
rm -f c1$$ c2$$

: compute my invocation name
me=$0
case "$0" in
*/*)
 me=`echo $0 | sed -e 's!.*/\(.*\)!\1!' 2>/dev/null`
 test "$me" || me=$0
 ;;
esac

?X:
?X: To be able to run under OS/2, we must detect that early enough to use
?X: the proper path separator, stored in $p_. It is : on UNIX and ; on
?X: DOSish systems such as OS/2.
?X:
: Proper separator for the PATH environment variable
p_=:
: On OS/2 this directory should exist if this is not floppy only system ":-]"
if test -d c:/. ; then
 if test -n "$OS2_SHELL"; then
  p_=\;
  PATH=`cmd /c "echo %PATH%" | tr '\\\\' / `
?X: That's a bug in ksh5.22
  OS2_SHELL=`cmd /c "echo %OS2_SHELL%" | tr
 '\\\\' / | tr '[A-Z]' '[a-z]'`
 elif test -n "$DJGPP"; then
  case "X${MACHTYPE:-nonesuchmach}" in
  *cygwin) ;;
  *) p_=\; ;;
  esac
```

```
 fi
fi

?X:
?X: There are two schools of thoughts here. Some people correctly argue that
?X: the user has a better chance than we do of setting a reasonable PATH and
?X: others argue that Configure is the best place there is to set up a suitable
?X: PATH. Well, here we try to compromize by keeping the user's PATH and
?X: appending some directories which are known to work on some machine or the
?X: other. The rationale behind this being that a novice user might not have a
?X: proper environment variable set, and some directories like /etc (where
?X: chown is located on some BSD systems) may be missing--RAM.
?X:
?X: SVR4 adds an /opt directory for optional packages.  Some sites use
?X: various permutations on /opt as opposed to /usr or /usr/local.-- ADO
?X:
?X: We only add directories that are not already in the PATH of the
?X: user and the directories must
 exist also.
?X:
: Proper PATH setting
paths='/bin /usr/bin /usr/local/bin /usr/ucb /usr/local /usr/lbin'
paths="$paths /opt/bin /opt/local/bin /opt/local /opt/lbin"
paths="$paths /usr/5bin /etc /usr/gnu/bin /usr/new /usr/new/bin /usr/nbin"
paths="$paths /opt/gnu/bin /opt/new /opt/new/bin /opt/nbin"
paths="$paths /sys5.3/bin /sys5.3/usr/bin /bsd4.3/bin /bsd4.3/usr/ucb"
paths="$paths /bsd4.3/usr/bin /usr/bsd /bsd43/bin /usr/ccs/bin"
paths="$paths /etc /usr/lib /usr/ucblib /lib /usr/ccs/lib"
paths="$paths /sbin /usr/sbin /usr/libexec"
paths="$paths /system/gnu_library/bin"

for p in $paths
do
 case "$p_$PATH$p_" in
 *$p_$p$p_*) ;;
 *) test -d $p && PATH=$PATH$p_$p ;;
 esac
done

PATH=.$p_$PATH
export PATH

: shall we be using ksh?
inksh=''
needksh=''
avoidksh=''
newsh=/bin/ksh
changesh=''
```

```
?X: Use (alias -x) and not (alias) since zsh and bash recognize the alias
?X: builtin but not the -x option which is typically ksh...
?X: We need to set up PATH before calling the "alias" built-in since
 some
?X: systems like HP-UX have a binary called /bin/alias.
if (PATH=.; alias -x) >/dev/null 2>&1; then
  inksh=true
fi
?X: On HP-UX, large Configure scripts may exercise a bug in /bin/sh, use ksh
if test -f /hp-ux -a -f /bin/ksh; then
 needksh='to avoid sh bug in "here document" expansion'
fi
?X: On AIX4, /bin/sh is really ksh and it causes problems, use sh
if test -d /usr/lpp -a -f /usr/bin/bsh -a -f /usr/bin/uname; then
 if test X`/usr/bin/uname -v` = X4; then
  avoidksh="to avoid AIX 4's /bin/sh"
  newsh=/usr/bin/bsh
 fi
fi
?X: On Digital UNIX, /bin/sh may start up buggy /bin/ksh, use sh
if test -f /osf_boot -a -f /usr/sbin/setld; then
 if test X`/usr/bin/uname -s` = XOSF1; then
  avoidksh="to avoid Digital UNIX' ksh"
  newsh=/bin/sh
?X: if BIN_SH is set to 'xpg4', sh will start up ksh
  unset BIN_SH
 fi
fi
?X: If we are not in ksh and need it, then feed us back to it
case "$inksh/$needksh" in
/[a-z]*)
?X: Clear ENV to avoid any ~/.kshrc that could alias cd or whatever...
?X: Don't
 use "unset ENV", that is not portable enough
  ENV=''
  changesh=true
  reason="$needksh"
 ;;
esac
?X: If we are in ksh and must avoid it, then feed us back to a new shell
case "$inksh/$avoidksh" in
true/[a-z]*)
 changesh=true
 reason="$avoidksh"
 ;;
esac
?X: Warn them if they use ksh on other systems, which are those where
?X: we don't need ksh nor want to avoid it explicitly, yet are using it.
```

```
case "$inksh/$needksh-$avoidksh-" in
true/--)
  cat <<EOM
(I see you are using the Korn shell.  Some ksh's blow up on $me,
mainly on older exotic systems.  If yours does, try the Bourne shell instead.)
EOM
 ;;
esac
case "$changesh" in
true)
 export newsh
 echo "(Feeding myself to $newsh $reason.)"
?X: Make sure they didn't say sh <Configure by checking whether $0 ends
?X: with Configure or not. If they did say sh <../../Configure, then too
?X: bad for them anyway, since we lost that path indication...
?X: Otherwise, execing $0 ensures we keep the full remote source dir
?X: indication for src.U.
 case
 "$0" in
 Configure|*/Configure) exec $newsh $0 "$@";;
 *) exec $newsh Configure "$@";;
 esac
 ;;
esac

?X: Unset CDPATH to avoid surprises when using cd under some shells
?X: Can't unset it because that's not portable to very old shells.
?X: Can't set it to '' because then bash 2.02 won't do "cd UU"  --AD  6/98.
?X: Don't want to set it to '.' because then ksh prints out the
?X: name of the directory every time you cd to it. --AD 6/98
?X: In order to inflict the least harm, change it only if it's set.
: if needed, set CDPATH to a harmless value that is not chatty
case "$CDPATH" in
'') ;;
*) case "$SHELL" in
 *bash*) CDPATH='.' ;;
 *) CDPATH='' ;;
 esac
 ;;
esac

: Configure runs within the UU subdirectory
test -d UU || mkdir UU
?X: Use ./* to avoid any confirmation prompts from enhanced shells -- WED
cd UU && rm -f ./*

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-
```

5.34.0/dist/U/Head.U
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```
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?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_mkdtemp: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkdtemp:
?S: This variable conditionally defines the HAS_MKDTEMP symbol, which
?S: indicates to the C program that the mkdtemp() routine is available
?S: to exclusively create a uniquely named temporary directory.
?S:.
?C:HAS_MKDTEMP :
?C: This symbol, if defined, indicates that the mkdtemp routine is
?C: available to exclusively create a uniquely named temporary directory.
?C:.
?H:#$d_mkdtemp HAS_MKDTEMP  /**/
?H:.
?LINT:set d_mkdtemp
: see if mkdtemp exists
set mkdtemp d_mkdtemp
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_mkdtemp.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_truncl: Inlibc
?MAKE: -pick add $@ %<
?S:d_truncl:
?S: This variable conditionally defines the HAS_TRUNCL symbol, which
?S: indicates to the C program that the truncl() routine is available
?S: to round long doubles towards zero. If copysignl is also present,
?S: we can emulate modfl.
?S:.
?C:HAS_TRUNCL :
?C: This symbol, if defined, indicates that the truncl routine is
?C: available. If copysignl is also present we can emulate modfl.
?C:.
```

```
?H:#$d_truncl HAS_TRUNCL  /**/
?H:.
?LINT:set d_truncl
: see if truncl exists
set truncl d_truncl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_truncl.U
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```
?RCS: $Id: d_setgrps.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setgrps.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setgrps: Inlibc
?MAKE: -pick add $@ %<
?S:d_setgrps:
?S: This variable conditionally defines the HAS_SETGROUPS symbol, which
?S: indicates to the C program that the setgroups() routine is available
?S: to set the list of process groups.
?S:.
?C:HAS_SETGROUPS:
?C: This symbol, if defined, indicates that the setgroups() routine is
?C: available
 to set the list of process groups.  If unavailable, multiple
?C: groups are probably not supported.
?C:.
?H:#$d_setgrps HAS_SETGROUPS  /**/
?H:.
?LINT:set d_setgrps
: see if setgroups exists
set setgroups d_setgrps
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/dist/U/d_setgrps.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fseeko: Inlibc longsize
?MAKE: -pick add $@ %<
?S:d_fseeko:
?S: This variable conditionally defines the HAS_FSEEKO symbol, which
?S: indicates to the C program that the fseeko() routine is available.
?S:.
?C:HAS_FSEEKO:
?C: This symbol, if defined, indicates that the fseeko routine is
?C: available to fseek beyond 32 bits (useful for ILP32 hosts).
?C:.
?H:#$d_fseeko HAS_FSEEKO  /**/
?H:.
?LINT:set d_fseeko
: see if fseeko exists
set fseeko d_fseeko
eval $inlibc
case "$longsize" in
8) echo "(Your long is 64 bits, so you could use fseek.)" ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fseeko.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_mbrtowc: Inlibc
?MAKE: -pick add $@ %<
?S:d_mbrtowc:
?S: This variable conditionally defines the HAS_MBRTOWC symbol if the
?S: mbrtowc() routine is available to be used to convert a multi-byte
```

```
?S: character into a wide character.
?S:.
?C:HAS_MBRTOWC:
?C: This symbol, if defined, indicates that the mbrtowc routine is
?C: available to convert a multi-byte character into a wide character.
?C:.
?H:#$d_mbrtowc HAS_MBRTOWC /**/
?H:.
?LINT: set d_mbrtowc
: see if mbrtowc exists
set mbrtowc d_mbrtowc
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_mbrtowc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_tminsys.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_tminsys.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_tminsys: contains Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_tminsys:
?S: This variable conditionally defines TM_IN_SYS if this system
?S: declares "struct tm" in <sys/time.h> rather than <time.h>.
?S:.
?C:TM_IN_SYS (TMINSYS):
?C: This symbol is defined if this system declares "struct tm" in
?C: <sys/time.h> rather than <time.h>.
  We can't just say
?C: -I/usr/include/sys because some systems have both time files, and
?C: the -I trick gets the wrong one.
?C:.
?H:#$d_tminsys TM_IN_SYS  /**/
?H:.
?LINT:set d_tminsys
```

```
: see if struct tm is defined in sys/time.h
echo " "
if $contains 'struct tm' `./findhdr time.h` >/dev/null 2>&1 ; then
 echo "You have struct tm defined in <time.h> rather than <sys/time.h>." >&4
 val="$undef"
else
 echo "You have struct tm defined in <sys/time.h> rather than <time.h>." >&4
 val="$define"
fi
set d_tminsys
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_tminsys.U
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```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000, Andy Dougherty
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:versionony: cat Myread Setvar Devel
?MAKE: -pick add $@ %<
?LINT:set versionony
?Y:TOP
?S:versionony:
?S: If set, this symbol indicates that only the version-specific
?S: components of a perl installation should be installed.
?S: This may be useful for making a test installation of a new
?S: version without disturbing the existing installation.
?S: Setting versionony is equivalent to setting installperl's -v option.
?S: In particular, the non-versioned scripts and programs such as
?S: a2p, c2ph, h2xs, pod2*, and perldoc
 are not installed
?S: (see INSTALL for a more complete list).  Nor are the man
?S: pages installed.
?S: Usually, this is undef.
?S:.
?LINT:extern inc_version_list
?LINT:change inc_version_list
?LINT:extern inc_version_list_init
?LINT:change inc_version_list_init
```

```
?LINT:extern version
: determine whether to use a version number suffix for installed binaries
echo " "
$cat <<EOM
Do you want to use a version number suffix for installed binaries? This
will install 'perl$version' instead of 'perl', and likewise for other
binaries like 'perldoc' and 'cpan'. This allows many versions of perl
to be installed side-by-side. Unless you are a developer, you probably
do *not* want to do this.
EOM
case "$versiononly" in
"$define"|[Yy]*|true) dflt='y' ;;
*) dflt='n';
esac
rp="Do you want to use a version number suffix for installed binaries?"
. ./myread
case "$ans" in
[yY]*) val="$define";;
*) val="$undef" ;;
esac
set versiononly
eval $setvar

case "$versiononly" in
"$define") inc_version_list="
        inc_version_list_init=0
        ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/versiononly.U
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```
?RCS: $Id$
?RCS:
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?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_getprpwnam: Inlibc
?MAKE: -pick add $@ %<
?S:d_getprpwnam:
?S: This variable conditionally defines HAS_GETPRPWNAM if getprpwnam() is
```

```
?S: available to retrieve protected (shadow) password entries by name.
?S:.
?C:HAS_GETPRPWNAM:
?C: This symbol, if defined, indicates that the getprpwnam system call is
?C: available to retrieve protected (shadow) password entries by name.
?C:.
?H:#$d_getprpwnam HAS_GETPRPWNAM  /**/
?H:.
?LINT:set d_getprpwnam
: see if getprpwnam exists
set getprpwnam d_getprpwnam
eval $inlibc
```

Found
 in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getprpwnam.U
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```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtold: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtold:
?S: This variable conditionally defines the HAS_STRTOLD symbol, which
?S: indicates to the C program that the strtold() routine is available.
?S:.
?C:HAS_STRTOLD:
?C: This symbol, if defined, indicates that the strtold routine is
?C: available to convert strings to long doubles.
?C:.
?H:#$d_strtold HAS_STRTOLD  /**/
?H:.
?LINT:set d_strtold
: see if strtold exists
set strtold d_strtold
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strtold.U
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```
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?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_backtrace.U,v $
?RCS:
?MAKE:d_backtrace: Inlibc
?MAKE: -pick add $@ %<
?S:d_backtrace:
?S: This variable conditionally defines the HAS_BACKTRACE symbol, which
?S: indicates to the C program that the backtrace() routine is available
?S: to get a stack trace.
?S:.
?C:HAS_BACKTRACE:
?C: This symbol, if defined, indicates that the backtrace() routine is
?C: available to get a stack trace.  The <execinfo.h> header must be
?C: included to use this routine.
?C:.
?H:#$d_backtrace HAS_BACKTRACE /**/
?H:.
?LINT:set d_backtrace
:
 see if backtrace exists
set backtrace d_backtrace
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_backtrace.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1997, Chip Salzenberg
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: sh.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:20:13  ram
?RCS: patch61: created
?RCS:
?MAKE:sh: Head
?MAKE: -pick wipe $@ %<
?S:sh:
?S: This variable contains the full pathname of the shell used
?S: on this system to execute Bourne shell scripts.  Usually, this will be
?S: /bin/sh, though it's possible that some systems will have /bin/ksh,
?S: /bin/pdksh, /bin/ash, /bin/bash, or even something such as
?S: D:/bin/sh.exe.
?S: This unit comes before Options.U,
 so you can't set sh with a -D
?S: option, though you can override this (and startsh)
?S: with -O -Dsh=/bin/whatever -Dstartsh=whatever
?S:.
?C:SH_PATH:
?C: This symbol contains the full pathname to the shell used on this
?C: on this system to execute Bourne shell scripts.  Usually, this will be
?C: /bin/sh, though it's possible that some systems will have /bin/ksh,
?C: /bin/pdksh, /bin/ash, /bin/bash, or even something such as
?C: D:/bin/sh.exe.
?C:.
?H:#define SH_PATH "$sh"  /**/
?H:.
?T:xxx try pth p SYSTYPE
?LINT:extern maintloc maintname
?X:
?X: Be quiet unless something unusual happens because this gets
?X: loaded up even before options are processed.
?X: Can't use ./loc because that depends on startsh, which, in turn
?X: depends on this unit.
?X:
: Find the basic shell for Bourne shell scripts
case "$sh" in
")
?X: SYSTYPE is for some older MIPS systems.
?X: I do not know if it is still needed.
 case "$SYSTYPE" in
 *bsd*|sys5*) xxx="/$SYSTYPE/bin/sh";;
 *) xxx='/bin/sh';;
 esac
 if
 test -f "$xxx"; then
  sh="$xxx"
 else
  : Build up a list and do a single loop so we can 'break' out.
```

```
  pth=`echo $PATH | sed -e "s/$p_/ /g"`
  for xxx in sh bash ksh pdksh ash; do
   for p in $pth; do
    try="$try ${p}/${xxx}"
   done
  done
  for xxx in $try; do
   if test -f "$xxx"; then
    sh="$xxx"
    break
   elif test -f "$xxx$_exe"; then
    sh="$xxx"
    break
   elif test -f "$xxx.exe"; then
    sh="$xxx"
    break
   fi
  done
 fi
 ;;
esac

?X: fd 4 isn't open yet...
case "$sh" in
") cat >&2 <<EOM
$me:  Fatal Error:  I can't find a Bourne Shell anywhere.

Usually it's in /bin/sh.  How did you even get this far?
Please contact me (<$maintname>) at <$maintloc> and
we'll try to straighten this all out.
EOM
 exit 1
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/sh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: startperl.U,v 3.0 1993/08/18 12:09:50 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
```

```
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: startperl.U,v $
?RCS: Perl5 version -- I always have d_portable=define.
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:startperl: cat Myread sharpbang initialinstalllocation test \
 versiononly version
?MAKE: -pick add $@ %<
?Y:TOP
?X: This is different from dist's standard startperl.U unit because
?X: we can't directly test #!/usr/local/bin/perl (or
 whatever) because
?X: we haven't built and installed perl yet.
?S:startperl:
?S: This variable contains the string to put on the front of a perl
?S: script to make sure (hopefully) that it runs with perl and not some
?S: shell. Of course, that leading line must be followed by the classical
?S: perl idiom:
?S:  eval 'exec perl -S $0 ${1+"$@"}'
?S:   if $running_under_some_shell;
?S: to guarantee perl startup should the shell execute the script. Note
?S: that this magic incantation is not understood by csh.
?S:.
?C:STARTPERL:
?C: This variable contains the string to put in front of a perl
?C: script to make sure (one hopes) that it runs with perl and not
?C: some shell.
?C:.
?H:#define STARTPERL "$startperl"  /**/
?H:.
: figure out how to guarantee perl startup
: XXX Note that this currently takes advantage of the bug that binexp ignores
:     the Configure -Dinstallprefix setting, which in turn means that under
:     relocatable @INC, initialinstalllocation is what binexp started as.
case
 "$startperl" in
")
 case "$sharpbang" in
 *!)
  $cat <<EOH

I can use the #! construct to start perl on your system. This will
make startup of perl scripts faster, but may cause problems if you
want to share those scripts and perl is not in a standard place
```

```
($initialinstalllocation/perl) on all your platforms. The alternative
is to force a shell by starting the script with a single ':' character.

EOH
  case "$versiononly" in
  "$define")      dflt="$initialinstalllocation/perl$version";;
  *)              dflt="$initialinstalllocation/perl";;
  esac
  rp='What shall I put after the #! to start up perl ("none" to not use #!)?'
  . ./myread
  case "$ans" in
  none) startperl=": # use perl";;
  *) startperl="#!$ans"
   if $test 30 -lt `echo "$ans" | wc -c`; then
    $cat >&4 <<EOM

WARNING:  Some systems limit the #! command to 32 characters.
If you experience difficulty running Perl scripts with #!, try
installing Perl in a directory with a shorter pathname.

EOM
   fi ;;
  esac
  ;;
 *)
 startperl=": # use perl"
  ;;
 esac
 ;;
esac
echo "I'll use $startperl to start perl scripts."
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/startperl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_srandom_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_srandom_r srandom_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_stdlib extern_C
?MAKE: -pick add $@ %<
```

```
?S:d_srandom_r:
?S: This variable conditionally defines the HAS_SRANDOM_R symbol,
?S: which indicates to the C program that the srandom_r()
?S: routine is available.
?S:.
?S:srandom_r_proto:
?S: This variable encodes the prototype of srandom_r.
?S: It is zero if d_srandom_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_srandom_r
?S: is defined.
?S:.
?C:HAS_SRANDOM_R:
?C: This symbol, if defined, indicates that the srandom_r routine
?C: is available to srandom re-entrantly.
?C:.
?C:SRANDOM_R_PROTO:
?C: This
 symbol encodes the prototype of srandom_r.
?C: It is zero if d_srandom_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_srandom_r
?C: is defined.
?C:.
?H:#$d_srandom_r HAS_SRANDOM_R /**/
?H:#define SRANDOM_R_PROTO $srandom_r_proto /**/
?H:.
?T:try hdrs d_srandom_r_proto
: see if srandom_r exists
set srandom_r d_srandom_r
eval $inlibc
case "$d_srandom_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_stdlib stdlib.h"
 case "$d_srandom_r_proto:$usethreads" in
 ":define") d_srandom_r_proto=define
  set d_srandom_r_proto srandom_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_srandom_r_proto" in
 define)
 case "$srandom_r_proto" in
 "|0) try='int srandom_r(unsigned int, struct random_data*);'
 ./protochk "$extern_C $try" $hdrs && srandom_r_proto=I_TS ;;
 esac
 case "$srandom_r_proto" in
 "|0) d_srandom_r=undef
  srandom_r_proto=0
  echo "Disabling srandom_r, cannot determine prototype." >&4 ;;
```

```
 *
 ) case "$srandom_r_proto" in
  REENTRANT_PROTO*) ;;
  *) srandom_r_proto="REENTRANT_PROTO_$srandom_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "srandom_r has no prototype, not using it." >&4 ;;
  esac
  d_srandom_r=undef
  srandom_r_proto=0
  ;;
 esac
 ;;
*) srandom_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_srandom_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: charsize.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:07:13  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:34  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:charsize: Assert Myread cat rm_try +cc +ccflags echo n c
?MAKE: -pick add $@ %<
?S:charsize:
?S: This variable contains the value of the CHARSIZE symbol, which
?S: indicates to the C program how many bytes there are in a character.
?S:.
```

```
?C:CHARSIZE:
?C: This symbol contains
 the size of a char, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define CHARSIZE $charsize
?H:.
?T:size s
: check for length of character
echo " "
$echo $n "Checking to see how big your characters are...$c" >&4
for size in 1 2 4 8 error; do
 $cat >try.c <<EOCP
#include "static_assert.h"
char foo;
int main()
{
 STATIC_ASSERT($size == sizeof(foo));
 return 0;
}
EOCP
 if $cc -c $ccflags try.c >/dev/null 2>&1; then break; fi
done
case "$size" in
error)
 echo " cannot compute it." >&4
 dflt=1
 rp="What is the size of a character (in bytes)?"
 . ./myread
 charsize="$ans"
 ;;
*)
 case "$size" in
 1) s="";;
 *) s='s';;
 esac
 echo " $size byte$s." >&4
 charsize=$size
 ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/charsize.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Config_sh.U 1 2006-08-24 12:32:52Z rmanfredi $

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Config_sh.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  14:57:53  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.2  1995/01/11  14:53:31  ram
?RCS: patch45: moved path stripping from d_portable.U to end of Configure
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:50:37  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X:
 This unit ends up producing the config.sh script, which contains all the
?X: definitions figured out by Configure.  The add.Config_sh command knows
?X: which variables need to be remembered.  It also adds the EOT (ends the
?X: here document redirection with variable substitution).
?X:
?MAKE:Config_sh: cf_time cf_by test spitshell startsh myuname Myread \
 End Obsol_sh Loc +d_portable package src cat
?MAKE: -pick add.Config_sh $@ %<
?MAKE: -pick add $@ ./Obsol_sh
?MAKE: -pick close.Config_sh $@ %<
?F:!config.over !config.arch
?T:file temp
?LINT:unclosed EOT
: back to where it started
if test -d ../UU; then
 cd ..
fi

: configuration may be unconditionally patched via a 'config.arch' file
if $test -f config.arch; then
 echo "I see a config.arch file, loading it." >&4
 . ./config.arch
fi
```

```
: configuration may be patched via a 'config.over' file
if $test -f config.over; then
 echo " "
 dflt=y
 rp='I see a config.over file.  Do you wish to load it?'
 . UU/myread
 case "$ans" in
 n*) echo
 "OK, I'll ignore it.";;
 *) . ./config.over
  echo "Configuration override changes have been loaded."
  ;;
 esac
fi

@if d_portable
: in case they want portability, strip down executable paths
?X:
?X: Strip down paths in located executables. For each file, e.g. vi, there
?X: is a $vi variable whose value is for instance '/usr/bin/vi'. By resetting
?X: $vi to 'vi', we rely on the PATH variable to locate the executable...
?X:
case "$d_portable" in
"$define")
 echo " "
 echo "Stripping down executable paths..." >&4
?X:
?X: Previously, we used to do    eval $file="\$file"  but in order
?X: to handle things like  sh Configure -Dmake=gmake, we can't do
?X: that.  What we *really* want is to strip away the absolute path
?X: and rely on the end user's $PATH to correctly find the executable.
?X: This method assumes there is a "basename" command available.  If
?X: not, replace it with the following expr-based command:
?X:   expr  $temp : '.*/\(.*\)' \| $temp
?X: Since this preserves the actual
 command name, we can now drop the
?X: OS/2 specific code.
?X:  --Andy Dougherty  August 1999
?X:
?X: On OS/2, a special $ar command not even named 'ar' is required,
?X: so we don't strip that name.
?X: Also, on DOS-ish systems, there might not be a ln command, but we
?X: might have ln='cp'.
?X: However, we can't set d_portable=undef on such systems since
?X: Unix-ish tools don't have standard locations there.  Thus we
?X: MUST rely on the user's $PATH.
?X: --Andy Dougherty  4/1998
?X:
```

```
 for file in $loclist $trylist; do
  eval temp=\$$file
  eval $file=`basename $temp`
 done
 ;;
esac

@end
: create config.sh file
echo " "
echo "Creating config.sh..." >&4
$spitshell <<EOT >config.sh
$startsh
#
# This file was produced by running the Configure script. It holds all the
# definitions figured out by Configure. Should you modify one of these values,
# do not forget to propagate your changes by running "Configure -der". You may
# instead choose to run each of the .SH files by yourself, or "Configure
 -S".
#

# Package name      : $package
# Source directory  : $src
# Configuration time: $cf_time
# Configured by     : $cf_by
# Target system     : $myuname

EOT
?X: Command line options are saved by the Options.U unit in the
?X: temporary file UU/cmdline.opt
: Add in command line options if available
$test -f UU/cmdline.opt && $cat UU/cmdline.opt >> config.sh

$spitshell <<EOT >>config.sh
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Config_sh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:sitehtml3dir sitehtml3direxp installsitehtml3dir: Getfile \
 Setprefixvar prefix siteprefix html3dir sed
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitehtml3dir=''
?S:sitehtml3dir:
?S: This variable contains the name of the directory in which site-specific
?S: library html source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S: The standard distribution will put nothing in this directory.
?S: After
 perl has been installed, users may install their own local
?S: library html pages in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitehtml3direxp=''
?S:sitehtml3direxp:
?S: This variable is the same as the sitehtml3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsitehtml3dir=''
?S:installsitehtml3dir:
?S: This variable is really the same as sitehtml3direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: html3direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installsitehtml3dir
?LINT:set sitehtml3dir
?LINT:set sitehtml3direxp
: determine where add-on library html pages go
: There is no standard location, so try to copy the previously-selected
: directory structure for the core html pages.
case
 "$sitehtml3dir" in
'')    dflt=`echo "$html3dir" | $sed "s#^$prefix#$siteprefix#"` ;;
*)     dflt=$sitehtml3dir ;;
esac
case "$dflt" in
'|' ') dflt=none ;;
esac
fn=dn+~
rp='Pathname where the site-specific library html pages should be installed?'
```

```
. ./getfile
prefixvar=sitehtml3dir
. ./setprefixvar

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/sitehtml3dir.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Findhdr.U,v 3.0.1.2 1994/10/29 15:53:08 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Thomas Neumann <tom@smart.bo.open.de>
?RCS:
?RCS: $Log: Findhdr.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  15:53:08  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:03:56  ram
?RCS: patch23: cppminus must be after other cppflags, not before
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a findhdr script which
 is used to locate the header
?X: files in $usrinc or other stranger places using cpp capabilities. The
?X: script is given an include file base name, like 'stdio.h' or 'sys/file.h'
?X: and it returns the full path of the include file and a zero status or an
?X: empty string with an error status if the file could not be located.
?X:
?MAKE:Findhdr: grep test tr rm incpth awk cat startsh \
 cppstdin cppminus +cppflags osname
?MAKE: -pick add $@ %<
?LINT:extern cppfilter
?LINT:define fieldn
?S:fieldn:
?S: This variable is used internally by Configure. It contains the position
?S: of the included file name in cpp output. That is to say, when cpp
?S: pre-processes a #include <file> line, it replaces it by a # line which
```

```
?S: contains the original position in the input file and the full name of
?S: included file, between "quotes".
?S:.
?V:fieldn
?F:./findhdr !fieldn
?T:cline pos wanted name awkprg usrincdir status testaccess
: determine filename position in cpp output
echo " "
echo "Computing
 filename position in cpp output for #include directives..." >&4
case "$osname" in
amigaos) fieldn=3 ;;  # Workaround for a bug in abc (pdksh).
esac
case "$fieldn" in
")
case "$osname" in
vos) testaccess=-e ;;
*)   testaccess=-r ;;
esac
echo '#include <stdio.h>' > foo.c
$cat >fieldn <<EOF
$startsh
$cppstdin $cppflags $cppminus <foo.c 2>/dev/null | \
$grep '^[  ]*#.*stdio\.h' | \
while read cline; do
 pos=1
 set \$cline
 while $test \$# -gt 0; do
  if $test $testaccess \`echo \$1 | $tr -d ""\`; then
   echo "\$pos"
   exit 0
  fi
  shift
  pos=\`expr \$pos + 1\`
 done
done
EOF
chmod +x fieldn
fieldn=`./fieldn`
$rm -f foo.c fieldn
;;
esac
case $fieldn in
") pos='???';;
1) pos=first;;
2) pos=second;;
3) pos=third;;
*) pos="${fieldn}th";;
```

```
esac
echo "Your cpp writes the filename in the $pos field of the line."

?X: To locate a header file, we cannot simply check for $usrinc/file.h, since
?X: some machine have the headers in weird places and our only hope is that
?X: the C pre-processor
 will know how to find those headers. Thank you NexT!
: locate header file
$cat >findhdr <<EOF
$startsh
wanted=\$1
name=''
for usrincdir in $incpth
do
 if test -f \$usrincdir/\$wanted; then
  echo "\$usrincdir/\$wanted"
  exit 0
 fi
done
awkprg='{ print \$$fieldn }'
echo "#include <\$wanted>" > foo\$\$.c
$cppstdin $cppminus $cppflags < foo\$\$.c 2>/dev/null | \
$cppfilter $grep "^[  ]*#.*\$wanted" | \
while read cline; do
 name=\`echo \$cline | $awk "\$awkprg" | $tr -d '"'\`
 case "\$name" in
 *[/\\\\]\$wanted) echo "\$name"; exit 1;;
 *[\\\\/]\$wanted) echo "\$name"; exit 1;;
 *) exit 2;;
 esac;
done;
#
# status = 0: grep returned 0 lines, case statement not executed
# status = 1: headerfile found
# status = 2: while loop executed, no headerfile found
#
status=\$?
$rm -f foo\$\$.c;
if test \$status -eq 1; then
 exit 0;
fi
exit 1
EOF
chmod +x findhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Findhdr.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_symlink.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_symlink.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:41  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_symlink: Inlibc
?MAKE: -pick add $@ %<
?S:d_symlink:
?S: This variable conditionally defines the HAS_SYMLINK symbol, which
?S: indicates to the C program that the symlink() routine is available
?S: to create symbolic links.
?S:.
?C:HAS_SYMLINK (SYMLINK):
?C: This symbol, if defined, indicates that the symlink routine is available
?C: to
 create symbolic links.
?C:.
?H:#$d_symlink HAS_SYMLINK /**/
?H:.
?LINT:set d_symlink
: see if symlink exists
set symlink d_symlink
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_symlink.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sitelib.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:21:35  ram
?RCS: patch61: created
?RCS:
?MAKE:sitelib sitelibexp installsitelib: afs cat Getfile \
 Oldconfig Prefixit test privlib package sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:sitelib:
?S: This variable contains the eventual value of the SITELIB symbol,
?S: which is the name of the private library for this package.  It may
?S: have a ~ on the front. It is up to the makefile to eventually create
?S: this
 directory while performing installation (with ~ substitution).
?S:.
?S:sitelibexp:
?S: This variable is the ~name expanded version of sitelib, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?S:installsitelib:
?S: This variable is really the same as sitelibexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?C:SITELIB:
?C: This symbol contains the name of the private library for this package.
?C: The library is private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.  The program
?C: should be prepared to do ~ expansion.
?C: The standard distribution will put nothing in this directory.
?C: Individual sites may place their own extensions and modules in
?C: this directory.
?C:.
?C:SITELIB_EXP:
?C: This symbol contains the ~name expanded version of SITELIB, to be used
?C: in programs that are not prepared to deal with ~ expansion
 at run-time.
?C:.
?H:#define SITELIB "$sitelib"  /**/
?H:#define SITELIB_EXP "$sitelibexp"  /**/
?H:.
?T:prog
: determine where site specific libraries go.
set sitelib sitelib
eval $prefixit
```

```
case "$sitelib" in
")
?X: remove any trailing -3.0 or other version indentification
 prog=`echo $package | $sed 's/-*[0-9.]*$//'`
 dflt="$privlib/site_$prog" ;;
*) dflt="$sitelib" ;;
esac
$cat <<EOM

The installation process will also create a directory for
site-specific extensions and modules.  Some users find it convenient
to place all local files in this directory rather than in the main
distribution directory.

EOM
fn=d~+
rp='Pathname for the site-specific library files?'
. ./getfile
if $test "X$sitelibexp" != "X$ansexp"; then
 installsitelib=''
fi
sitelib="$ans"
sitelibexp="$ansexp"
if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
private files reside from the directory in which they are installed (and from
which they are presumably copied to
 the former directory by occult means).

EOM
 case "$installsitelib" in
 ") dflt=`echo $sitelibexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installsitelib";;
 esac
 fn=de~
 rp='Where will private files be installed?'
 . ./getfile
 installsitelib="$ans"
else
 installsitelib="$sitelibexp"
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/sitelib.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fork.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_fork.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:38  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_fork: Inlibc
?MAKE: -pick add $@ %<
?S:d_fork:
?S: This variable conditionally defines the HAS_FORK symbol, which
?S: indicates to the C program that the fork() routine is available.
?S:.
?C:HAS_FORK :
?C: This symbol, if defined, indicates that the fork routine is
?C: available.
?C:.
?H:#$d_fork
 HAS_FORK  /**/
?H:.
?LINT:set d_fork
: see if fork exists
set fork d_fork
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_fork.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getprotobyname_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
```

```
?RCS:
?MAKE:d_getprotobyname_r getprotobyname_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getprotobyname_r:
?S: This variable conditionally defines the HAS_GETPROTOBYNAME_R symbol,
?S: which indicates to the C program that the getprotobyname_r()
?S: routine is available.
?S:.
?S:getprotobyname_r_proto:
?S: This variable encodes the prototype of getprotobyname_r.
?S: It is zero if d_getprotobyname_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getprotobyname_r
?S: is defined.
?S:.
?C:HAS_GETPROTOBYNAME_R:
?C: This symbol, if
 defined, indicates that the getprotobyname_r routine
?C: is available to getprotobyname re-entrantly.
?C:.
?C:GETPROTOBYNAME_R_PROTO:
?C: This symbol encodes the prototype of getprotobyname_r.
?C: It is zero if d_getprotobyname_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getprotobyname_r
?C: is defined.
?C:.
?H:#$d_getprotobyname_r HAS_GETPROTOBYNAME_R /**/
?H:#define GETPROTOBYNAME_R_PROTO $getprotobyname_r_proto /**/
?H:.
?T:try hdrs d_getprotobyname_r_proto
: see if getprotobyname_r exists
set getprotobyname_r d_getprotobyname_r
eval $inlibc
case "$d_getprotobyname_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getprotobyname_r_proto:$usethreads" in
 ":define") d_getprotobyname_r_proto=define
  set d_getprotobyname_r_proto getprotobyname_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getprotobyname_r_proto" in
 define)
 case "$getprotobyname_r_proto" in
 "|0) try='int getprotobyname_r(const char*, struct
 protoent*, char*, size_t, struct protoent**);'
 ./protochk "$extern_C $try" $hdrs && getprotobyname_r_proto=I_CSBWR ;;
```

```
 esac
 case "$getprotobyname_r_proto" in
 "|0) try='struct protoent* getprotobyname_r(const char*, struct protoent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getprotobyname_r_proto=S_CSBI ;;
 esac
 case "$getprotobyname_r_proto" in
 "|0) try='int getprotobyname_r(const char*, struct protoent*, struct protoent_data*);'
 ./protochk "$extern_C $try" $hdrs && getprotobyname_r_proto=I_CSD ;;
 esac
 case "$getprotobyname_r_proto" in
 "|0) d_getprotobyname_r=undef
  getprotobyname_r_proto=0
  echo "Disabling getprotobyname_r, cannot determine prototype." >&4 ;;
 * ) case "$getprotobyname_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getprotobyname_r_proto="REENTRANT_PROTO_$getprotobyname_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getprotobyname_r has no prototype, not using it." >&4 ;;
  esac
  d_getprotobyname_r=undef
  getprotobyname_r_proto=0
  ;;
 esac
 ;;
*) getprotobyname_r_proto=0
 ;;
esac
```

Found
 in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getprotobyname_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_rmdir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: d_rmdir.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_rmdir: Inlibc
?MAKE: -pick add $@ %<
?S:d_rmdir:
?S: This variable conditionally defines HAS_RMDIR if rmdir() is
?S: available to remove directories.
?S:.
?C:HAS_RMDIR (RMDIR):
?C: This symbol, if defined, indicates that the rmdir routine is
?C: available to remove directories. Otherwise you should fork off a
?C: new process to exec
 /bin/rmdir.
?C:.
?H:#$d_rmdir HAS_RMDIR  /**/
?H:.
?LINT:set d_rmdir
: see if rmdir exists
set rmdir d_rmdir
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_rmdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the WRITEME file.
?RCS:
?MAKE:d_writev: Inlibc
?MAKE: -pick add $@ %<
?S:d_writev:
?S: This variable conditionally defines the HAS_WRITEV symbol, which
?S: indicates to the C program that the writev() routine is available.
?S:.
?C:HAS_WRITEV:
?C: This symbol, if defined, indicates that the writev routine is
?C: available to do scatter writes.
?C:.
?H:#$d_writev HAS_WRITEV  /**/
?H:.
?LINT:set d_writev
```

```
: see if writev exists
set writev d_writev
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_writev.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: etc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: etc.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:etc etcexp: Getfile Loc Oldconfig
?MAKE: -pick add $@ %<
?S:etc:
?S: This variable holds the name of the directory in which the user wants
?S: to put "administrative" executable images for the package in question.
?S: It is most often a local directory such as /usr/local/etc. Programs
?S: relying on this variable must be prepared to deal with
 ~name
?S: substitutions.
?S:.
?S:etcexp:
?S: This is the same as the etc variable, but is filename expanded at
?S: configuration time, for convenient use in makefiles.
?S:.
: determine where administrative executables go
case "$etc" in
")
 dflt=`./loc . /local/etc /usr/local/etc /local/etc /usr/etc /etc`
 ;;
*)
 dflt="$etc"
 ;;
esac
fn=d~
rp='Where should the administrative executables go?'
```

```
. ./getfile
etc="$ans"
etcexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/etc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getgrnam_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getgrnam_r getgrnam_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_grp extern_C
?MAKE: -pick add $@ %<
?S:d_getgrnam_r:
?S: This variable conditionally defines the HAS_GETGRNAM_R symbol,
?S: which indicates to the C program that the getgrnam_r()
?S: routine is available.
?S:.
?S:getgrnam_r_proto:
?S: This variable encodes the prototype of getgrnam_r.
?S: It is zero if d_getgrnam_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getgrnam_r
?S: is defined.
?S:.
?C:HAS_GETGRNAM_R:
?C: This symbol, if defined, indicates that the getgrnam_r routine
?C: is available to
 getgrnam re-entrantly.
?C:.
?C:GETGRNAM_R_PROTO:
?C: This symbol encodes the prototype of getgrnam_r.
?C: It is zero if d_getgrnam_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getgrnam_r
?C: is defined.
?C:.
?H:#$d_getgrnam_r HAS_GETGRNAM_R /**/
?H:#define GETGRNAM_R_PROTO $getgrnam_r_proto /**/
?H:.
?T:try hdrs d_getgrnam_r_proto
: see if getgrnam_r exists
set getgrnam_r d_getgrnam_r
```

```
eval $inlibc
case "$d_getgrnam_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_grp grp.h"
 case "$d_getgrnam_r_proto:$usethreads" in
 ":define") d_getgrnam_r_proto=define
  set d_getgrnam_r_proto getgrnam_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getgrnam_r_proto" in
 define)
 case "$getgrnam_r_proto" in
 "|0) try='int getgrnam_r(const char*, struct group*, char*, size_t, struct group**);'
 ./protochk "$extern_C $try" $hdrs && getgrnam_r_proto=I_CSBWR ;;
 esac
 case "$getgrnam_r_proto" in
 "|0) try='int getgrnam_r(const char*, struct group*, char*,
 int, struct group**);'
 ./protochk "$extern_C $try" $hdrs && getgrnam_r_proto=I_CSBIR ;;
 esac
 case "$getgrnam_r_proto" in
 "|0) try='struct group* getgrnam_r(const char*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getgrnam_r_proto=S_CBI ;;
 esac
 case "$getgrnam_r_proto" in
 "|0) try='int getgrnam_r(const char*, struct group*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getgrnam_r_proto=I_CSBI ;;
 esac
 case "$getgrnam_r_proto" in
 "|0) try='struct group* getgrnam_r(const char*, struct group*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getgrnam_r_proto=S_CSBI ;;
 esac
 case "$getgrnam_r_proto" in
 "|0) d_getgrnam_r=undef
  getgrnam_r_proto=0
  echo "Disabling getgrnam_r, cannot determine prototype." >&4 ;;
 * ) case "$getgrnam_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getgrnam_r_proto="REENTRANT_PROTO_$getgrnam_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getgrnam_r has no prototype, not using it."
 >&4 ;;
  esac
```

```
  d_getgrnam_r=undef
  getgrnam_r_proto=0
  ;;
 esac
 ;;
*) getgrnam_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getgrnam_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pthread_y.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_pthread_yield sched_yield d_sched_yield: \
 Compile Setvar cat rm_try usethreads
?MAKE: -pick add $@ %<
?S:d_pthread_yield:
?S: This variable conditionally defines the HAS_PTHREAD_YIELD
?S: symbol if the pthread_yield routine is available to yield
?S: the execution of the current thread.
?S:.
?S:sched_yield:
?S: This variable defines the way to yield the execution
?S: of the current thread.
?S:.
?S:d_sched_yield:
?S: This variable conditionally defines the HAS_SCHED_YIELD
?S: symbol if the sched_yield routine is available to yield
?S: the execution of the current thread.
?S:.
?C:HAS_PTHREAD_YIELD:
?C: This symbol, if defined, indicates that the pthread_yield
?C: routine is available
 to yield the execution of the current
?C: thread.  sched_yield is preferable to pthread_yield.
?C:.
?C:SCHED_YIELD:
?C: This symbol defines the way to yield the execution of
?C: the current thread.  Known ways are sched_yield,
?C: pthread_yield, and pthread_yield with NULL.
```

```
?C:.
?C:HAS_SCHED_YIELD:
?C: This symbol, if defined, indicates that the sched_yield
?C: routine is available to yield the execution of the current
?C: thread.  sched_yield is preferable to pthread_yield.
?C:.
?H:#$d_pthread_yield HAS_PTHREAD_YIELD /**/
?H:#define SCHED_YIELD $sched_yield /**/
?H:#$d_sched_yield HAS_SCHED_YIELD /**/
?H:.
?LINT: set d_pthread_yield d_sched_yield
: see whether the various POSIXish _yields exist
$cat >try.c <<EOP
#include <pthread.h>
#include <stdio.h>
int main() {
#ifdef SCHED_YIELD
 sched_yield();
#else
#ifdef PTHREAD_YIELD
 pthread_yield();
#else
#ifdef PTHREAD_YIELD_NULL
 pthread_yield(NULL);
#endif
#endif
#endif
}
EOP
: see if sched_yield exists
set try -DSCHED_YIELD
if eval $compile;
 then
   val="$define"
   sched_yield='sched_yield()'
else
   val="$undef"
fi
case "$usethreads" in
$define)
 case "$val" in
 $define) echo 'sched_yield() found.' >&4 ;;
 *)  echo 'sched_yield() NOT found.' >&4 ;;
 esac
esac
set d_sched_yield
eval $setvar
```

```
: see if pthread_yield exists
set try -DPTHREAD_YIELD
if eval $compile; then
   val="$define"
   case "$sched_yield" in
   ") sched_yield='pthread_yield()' ;;
   esac
else
   set try -DPTHREAD_YIELD_NULL
   if eval $compile; then
 val="$define"
 case "$sched_yield" in
 ") sched_yield='pthread_yield(NULL)' ;;
 esac
   else
 val="$undef"
   fi
fi
case "$usethreads" in
$define)
 case "$val" in
 $define) echo 'pthread_yield() found.' >&4 ;;
 *)  echo 'pthread_yield() NOT found.' >&4 ;;
 esac
 ;;
esac
set d_pthread_yield
eval $setvar
case "$sched_yield" in
") sched_yield=undef ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_pthread_y.U
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```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?MAKE:gccversion gccosandvers: cat cpp rm +cc \
 Myread Guess Options Oldconfig Loc osname osvers grep run ccname
?MAKE: -pick add $@ %<
?S:gccversion:
?S: If GNU cc (gcc) is used, this variable holds '1' or '3' (for instance)
?S: to indicate whether the compiler is version 1 or 3.  This is used in
?S: setting some of the default cflags.  It is set to '' if not gcc.
?S:.
?S:gccosandvers:
?S: If GNU cc (gcc) is used, this variable the operating system and
?S: version
 used to compile the gcc.  It is set to '' if not gcc,
?S: or if nothing useful can be parsed as the os version.
?S:.
?T:gccshortvers incdir d
?F:!try.c !try
?LINT:extern locincpth ccflags ldflags
?LINT:change locincpth ccname cpp
: Check whether they have gcc in any guise.
echo " "
echo "Checking for GNU cc in disguise and/or its version number..." >&4
$cat >try.c <<EOM
#include <stdio.h>
int main() {
#ifdef __GNUC__
#ifdef __VERSION__
 printf("%s\n", __VERSION__);
#else
 printf("%s\n", "1");
#endif
#endif
 exit(0);
}
EOM
if $cc -o try $ccflags $ldflags try.c >/dev/null 2>&1; then
 gccversion=`$run ./try`
 case "$gccversion" in
 '') echo "You are not using GNU cc." ;;
 *)  echo "You are using GNU cc $gccversion."
     ccname=gcc
     ;;
 esac
else
 echo " "
 echo "*** WHOA THERE!!! ***" >&4
 echo "    Your C compiler \"$cc\" doesn't seem to be working!" >&4
```

```
?X: using -K will prevent aborting--maybe they're cross compiling?
 case "$knowitall" in
 ")
 echo "    You'd better
 start hunting for one and let me know about it." >&4
  exit 1
  ;;
 esac
fi
$rm -f try try.*
case "$gccversion" in
1*) cpp=`./loc gcc-cpp $cpp $pth` ;;
esac
case "$gccversion" in
") gccosandvers=" ;;
*) gccshortvers=`echo "$gccversion"|sed 's/ .*//'`
  gccosandvers=`$cc -v 2>&1 | \
 $grep '/specs$'|sed "s!.*/[^-/]*-[^-/]*-\([^-/]*\)/$gccshortvers/specs!\1!"`
  gccshortvers="
  case "$gccosandvers" in
  $osname) gccosandvers=" ;; # linux gccs seem to have no linux osvers, grr
  $osname$osvers) ;; # looking good
  $osname*) cat <<EOM >&4

*** WHOA THERE!!! ***

   Your gcc has not been compiled for the exact release of
   your operating system ($gccosandvers versus $osname$osvers).

   In general it is a good idea to keep gcc synchronized with
   the operating system because otherwise serious problems
   may ensue when trying to compile software, like Perl.

   I'm trying to be optimistic here, though, and will continue.
   If later during the configuration and build icky
 compilation
   problems appear (headerfile conflicts being the most common
   manifestation), I suggest reinstalling the gcc to match
   your operating system release.

EOM
     ;;
  *) gccosandvers=" ;; # failed to parse, better be silent
  esac
  ;;
esac
case "$ccname" in
") ccname="$cc" ;;
```

```
esac

: gcc 3.1 complains about adding -Idirectories that it already knows about,
: so we will take those off from locincpth.
case "$gccversion" in
3*)
   echo "main(){}">try.c
   for incdir in `$cc -v -c try.c 2>&1 | \
      sed '1,/^#include <\.\.\.>/d;/^End of search list/,$d;s/^ //'` ; do
      locincpth=`echo $locincpth | sed s!$incdir!!`
   done
   $rm -f try try.*
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/gccvers.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:usequadmath: Setvar cat uselongdouble
?MAKE: -pick add $@ %<
?S:usequadmath:
?S: This variable conditionally defines the USE_QUADMATH symbol,
?S: and indicates that the quadmath library __float128 long doubles
?S: should be used when available.
?S:.
?C:USE_QUADMATH:
?C: This symbol, if defined, indicates that the quadmath library should
?C: be used when available.
?C:.
?H:?%<:#ifndef USE_QUADMATH
?H:?%<:#$usequadmath USE_QUADMATH  /**/
?H:?%<:#endif
?H:.
: Check if quadmath is requested
case "$usequadmath" in
"$define"|true|[yY]*) usequadmath="$define" ;;
*)                    usequadmath="$undef"  ;;
esac

: Fail if both uselongdouble and usequadmath are requested
case "$usequadmath:$uselongdouble" in
define:define)
 $cat <<EOM >&4
```

```
*** You requested the use of
 the quadmath library and use
*** of long doubles.
***
*** Please select one or the other.
EOM
 exit 1
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/usequadmath.U
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```
?RCS: $Id: d_alarm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_alarm.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:06:58  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_alarm: Inlibc
?MAKE: -pick add $@ %<
?S:d_alarm:
?S: This variable conditionally defines the HAS_ALARM symbol, which
?S: indicates to the C program that the alarm() routine is available.
?S:.
?C:HAS_ALARM :
?C: This symbol, if defined, indicates that the alarm routine is
?C: available.
?C:.
?H:#$d_alarm
 HAS_ALARM  /**/
?H:.
?LINT:set d_alarm
: see if alarm exists
set alarm d_alarm
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_alarm.U
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```
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:ptrsize: cat rm_try Myread +cc +ccflags
?MAKE: -pick add $@ %<
?S:ptrsize:
?S: This variable contains the value of the PTRSIZE symbol, which
?S: indicates to the C program how many bytes there are in a pointer.
?S:.
?C:PTRSIZE:
?C: This symbol contains the size of a pointer, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define PTRSIZE $ptrsize  /**/
?H:.
?F:!try
: check for length of pointer
echo " "
case "$ptrsize" in
")
 echo "Checking to see how big your pointers are..."
 >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
 printf("%d\n", sizeof(char *));
}
EOCP
 if $cc $ccflags -o try try.c >/dev/null 2>&1 ; then
  dflt=`./try`
 else
  dflt='4'
  echo "(I can't seem to compile the test program.  Guessing...)"
 fi
```

```
 ;;
*)
 dflt="$ptrsize"
 ;;
esac
rp="What is the size of a pointer (in bytes)?"
. ./myread
ptrsize="$ans"
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/ptrsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: so.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: so.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:30:04  ram
?RCS: patch36: now tells user how he can suppress shared lib lookup (ADO)
?RCS: patch36: removed echo at the top, since it's now in the here-doc (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:07:02  ram
?RCS: patch30: created
?RCS:
?X:
?X: This unit computes the shared-object / shared-lib extension
?X:
?MAKE:so d_libname_unique: test libpth Loc Myread Oldconfig cat Setvar
?MAKE: -pick add $@ %<
?S:so:
?S: This
 variable holds the extension used to identify shared libraries
?S: (also known as shared objects) on the system. Usually set to 'so'.
?S:.
?S:d_libname_unique:
?S: This variable is defined if the target system insists on unique
?S: basenames for shared library files. This is currently true on Android,
?S: false everywhere else we know of.
?S: Defaults to 'undef'.
```

```
?S:.
?LINT:set d_libname_unique
?T: xxx
: compute shared library extension
case "$so" in
")
 if xxx=`./loc libc.sl X $libpth`; $test -f "$xxx"; then
  dflt='sl'
 else
  dflt='so'
 fi
 ;;
*) dflt="$so";;
esac
$cat <<EOM

On some systems, shared libraries may be available.  Answer 'none' if
you want to suppress searching of shared libraries for the remainder
of this configuration.

EOM
rp='What is the file extension used for shared libraries?'
. ./myread
so="$ans"

: Does target system insist that shared library basenames are unique
$cat << EOM

Some dynamic loaders assume that the *basename* of shared library
 filenames
are globally unique.  We'll default this to undef as we assume your system
is not this weird. Set to defined if you're on one of them.

EOM

dflt='n'
rp='Make shared library basenames unique?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*)   val="$undef"  ;;
esac
set d_libname_unique
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/so.U

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```
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?RCS:
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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_ctime64 d_localtime64 d_gmtime64 d_mktime64 d_difftime64 d_asctime64: Inlibc
?MAKE: -pick add $@ %<
?S:d_ctime64:
?S: This variable conditionally defines the HAS_CTIME64 symbol, which
?S: indicates to the C program that the ctime64 () routine is available.
?S:.
?S:d_localtime64:
?S: This variable conditionally defines the HAS_LOCALTIME64 symbol, which
?S: indicates to the C program that the localtime64 () routine is available.
?S:.
?S:d_gmtime64:
?S: This variable conditionally defines the HAS_GMTIME64 symbol, which
?S: indicates to the C program that the gmtime64 () routine is available.
?S:.
?S:d_mktime64:
?S: This variable conditionally defines the HAS_MKTIME64 symbol, which
?S: indicates to the
 C program that the mktime64 () routine is available.
?S:.
?S:d_difftime64:
?S: This variable conditionally defines the HAS_DIFFTIME64 symbol, which
?S: indicates to the C program that the difftime64 () routine is available.
?S:.
?S:d_asctime64:
?S: This variable conditionally defines the HAS_ASCTIME64 symbol, which
?S: indicates to the C program that the asctime64 () routine is available.
?S:.
?C:HAS_CTIME64:
?C: This symbol, if defined, indicates that the ctime64 () routine is
?C: available to do the 64bit variant of ctime ()
?C:.
?C:HAS_LOCALTIME64:
?C: This symbol, if defined, indicates that the localtime64 () routine is
?C: available to do the 64bit variant of localtime ()
?C:.
?C:HAS_GMTIME64:
?C: This symbol, if defined, indicates that the gmtime64 () routine is
?C: available to do the 64bit variant of gmtime ()
?C:.
```

```
?C:HAS_MKTIME64:
?C: This symbol, if defined, indicates that the mktime64 () routine is
?C: available to do the 64bit variant of mktime ()
?C:.
?C:HAS_DIFFTIME64:
?C: This
 symbol, if defined, indicates that the difftime64 () routine is
?C: available to do the 64bit variant of difftime ()
?C:.
?C:HAS_ASCTIME64:
?C: This symbol, if defined, indicates that the asctime64 () routine is
?C: available to do the 64bit variant of asctime ()
?C:.
?H:#$d_ctime64 HAS_CTIME64  /**/
?H:#$d_localtime64 HAS_LOCALTIME64  /**/
?H:#$d_gmtime64 HAS_GMTIME64  /**/
?H:#$d_mktime64 HAS_MKTIME64  /**/
?H:#$d_difftime64 HAS_DIFFTIME64  /**/
?H:#$d_asctime64 HAS_ASCTIME64  /**/
?H:.
?LINT:set d_ctime64 d_localtime64 d_gmtime64 d_mktime64 d_difftime64 d_asctime64
: see if 64bit time functions exists

set ctime64 d_ctime64
eval $inlibc

set localtime64 d_localtime64
eval $inlibc

set gmtime64 d_gmtime64
eval $inlibc

set mktime64 d_mktime64
eval $inlibc

set difftime64 d_difftime64
eval $inlibc

set asctime64 d_asctime64
eval $inlibc

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-
5.34.0/U/perl/d_timefuncs64.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_strtoul.U,v 3.0.1.1 1997/02/28 15:46:43 ram Exp $
?RCS:
```

```
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_strtoul.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:46:43  ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_strtoul: Inlibc cat longsize Compile run
?MAKE: -pick add $@ %<
?S:d_strtoul:
?S: This variable conditionally defines the HAS_STRTOUL symbol, which
?S: indicates to the C program that the strtoul() routine is available
?S: to provide conversion of strings to unsigned long.
?S:.
?C:HAS_STRTOUL (STRTOUL):
?C: This
 symbol, if defined, indicates that the strtoul routine is
?C: available to provide conversion of strings to unsigned long.
?C:.
?H:#$d_strtoul HAS_STRTOUL /**/
?H:.
?F:!try
: see if strtoul exists
set strtoul d_strtoul
eval $inlibc

case "$d_strtoul" in
"$define")
 $cat <<EOM
Checking whether your strtoul() works okay...
EOM
 $cat >try.c <<'EOCP'
#include <stdlib.h>
#include <errno.h>
#include <stdio.h>
static int bad = 0;
void check(const char *s, unsigned long eul, int een) {
 unsigned long gul;
 errno = 0;
 gul = strtoul(s, 0, 10);
 if (!((gul == eul) && (errno == een)))
```

```
  bad++;
}
int main() {
 check(" 1", 1L, 0);
 check(" 0", 0L, 0);
EOCP
 case "$longsize" in
 8)
     $cat >>try.c <<'EOCP'
 check("18446744073709551615", 18446744073709551615UL, 0);
 check("18446744073709551616", 18446744073709551615UL, ERANGE);
#if 0 /* strtoul() for /^-/ strings is undefined. */
 check("-1", 18446744073709551615UL, 0);
 check("-18446744073709551614", 2, 0);
 check("-18446744073709551615", 1,
 0);
 check("-18446744073709551616", 18446744073709551615UL, ERANGE);
 check("-18446744073709551617", 18446744073709551615UL, ERANGE);
#endif
EOCP
  ;;
 4)
      $cat >>try.c <<'EOCP'
 check("4294967295", 4294967295UL, 0);
 check("4294967296", 4294967295UL, ERANGE);
#if 0 /* strtoul() for /^-/ strings is undefined. */
 check("-1", 4294967295UL, 0);
 check("-4294967294", 2, 0);
 check("-4294967295", 1, 0);
 check("-4294967296", 4294967295UL, ERANGE);
 check("-4294967297", 4294967295UL, ERANGE);
#endif
EOCP
  ;;
 *)
: Should we write these tests to be more portable by sprintf-ing
: ~0 and then manipulating that char string as input for strtol?
  ;;
 esac
 $cat >>try.c <<'EOCP'
 if (!bad)
  printf("ok\n");
 return 0;
}
EOCP
 set try
 if eval $compile; then
  case "`$run ./try`" in
```

```
  ok) echo "Your strtoul() seems to be working okay." ;;
  *) cat <<EOM >&4
Your strtoul() doesn't seem to be working okay.
EOM
     d_strtoul="$undef"
     ;;
  esac
 else
  echo "(I can't seem to compile the test
 program--assuming it doesn't)"
  d_strtoul="$undef"
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_strtoul.U
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```
?RCS: $Id: Oldsym.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Oldsym.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:06:58  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit follows the creation of the config.sh file. It adds some
?X: special symbols: defines from patchlevel.h file if any and PERL_CONFIG_SH,
?X: which is set to true. Then, we try to keep all the new symbols that
?X: may come from a hint
 file or a previous config.sh file.
?X:
?MAKE:Oldsym: Config_sh cat test hint src sed sort uniq perl_patchlevel
?MAKE: -pick add $@ %<
?T:PERL_CONFIG_SH PERL_PATCHLEVEL sym tmp
?F:!UU
```

```
: add special variables
$test -f $src/patchlevel.h && \
awk '/^#define[  ]+PERL_/ {printf "%s=%s\n",$2,$3}' $src/patchlevel.h >>config.sh
echo "PERL_PATCHLEVEL='$perl_patchlevel'" >>config.sh
echo "PERL_CONFIG_SH=true" >>config.sh

: propagate old symbols
if $test -f UU/config.sh; then
?X: Make sure each symbol is unique in oldconfig.sh
 <UU/config.sh $sort | $uniq >UU/oldconfig.sh
?X:
?X: All the symbols that appear twice come only from config.sh (hence the
?X: two config.sh in the command line). These symbols will be removed by
?X: the uniq -u command. The oldsyms file thus contains all the symbols
?X: that did not appear in the produced config.sh (Larry Wall).
?X:
?X: Do not touch the -u flag of uniq.  This means you too, Jarkko.
?X:
 $sed -n 's/^\([a-zA-Z_0-9]*\)=.*/\1/p' \
  config.sh config.sh UU/oldconfig.sh
 |\
  $sort | $uniq -u >UU/oldsyms
 set X `$cat UU/oldsyms`
 shift
 case $# in
 0) ;;
 *)
  $cat <<EOM
Hmm...You had some extra variables I don't know about...I'll try to keep 'em...
EOM
  echo ": Variables propagated from previous config.sh file." >>config.sh
  for sym in `$cat UU/oldsyms`; do
   echo "    Propagating $hint variable "'$'"$sym..."
   eval 'tmp="$'"${sym}"'"'
   echo "$tmp" | \
    sed -e "s/'/'\''\''/g" -e "s/^/$sym='/" -e "s/$/'/" >>config.sh
  done
  ;;
 esac
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Oldsym.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: mansrc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
```

```
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: mansrc.U,v $
?RCS: Revision 3.0.1.9  1997/02/28  16:12:03  ram
?RCS: patch61: don't ask for AFS when they choose to not install pages
?RCS:
?RCS: Revision 3.0.1.8  1995/09/25  09:16:58  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.7  1995/02/15  14:15:31  ram
?RCS: patch51: was mistakenly duplicating /usr/local/man/man1 (ADO)
?RCS: patch51: added /opt/man/man1 to the lookpath (ADO)
?RCS:
?RCS: Revision
 3.0.1.6  1995/01/30  14:39:34  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:32:25  ram
?RCS: patch45: can now use Loc variables since path stripping is deferred
?RCS:
?RCS: Revision 3.0.1.4  1994/08/29  16:30:38  ram
?RCS: patch32: now uses installation prefix for default setting
?RCS:
?RCS: Revision 3.0.1.3  1994/05/06  15:11:10  ram
?RCS: patch23: added lint hint, assuring that nroff is used
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:14:39  ram
?RCS: patch16: now uses _nroff in case user asked for portability
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:09:31  ram
?RCS: patch10: allows for L1 man page extension (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:mansrc mansrcexp manext installmansrc: afs cat nroff Loc Oldconfig \
 sysman spackage test Getfile Prefixit prefixexp Prefixup
?MAKE: -pick add $@ %<
?Y:TOP
?S:mansrc:
?S: This variable
```

```
 contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?S:mansrcexp:
?S: This variable is the same as the mansrc variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?S:installmansrc:
?S: This variable is really the same as mansrcexp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: mansrcexp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:manext:
?S: This variable contains the extension that the manual page should
?S: have: one of 'n', 'l', or '1'.  The Makefile must supply the '.'.
?S: See mansrc.
?S:.
?T:lookpath
: determine where manual pages go
set mansrc mansrc none
eval $prefixit
$cat <<EOM

$spackage has manual
 pages available in source form.
EOM
case "$nroff" in
nroff)
 echo "However, you don't have nroff, so they're probably useless to you."
 case "$mansrc" in
 ") mansrc="none";;
 esac;;
esac
echo "If you don't want the manual sources installed, answer 'none'."
case "$mansrc" in
")
 lookpath="$prefixexp/share/man/man1 $prefixexp/man/man1"
 lookpath="$lookpath $prefixexp/man/u_man/man1 $prefixexp/man/l_man/man1"
 lookpath="$lookpath /usr/local/man/man1 /opt/man/man1 /usr/man/manl"
 lookpath="$lookpath /usr/share/man/man1 /usr/local/share/man/man1"
 lookpath="$lookpath /usr/man/local/man1 /usr/man/l_man/man1"
 lookpath="$lookpath /usr/local/man/u_man/man1 /usr/local/man/l_man/man1"
 lookpath="$lookpath /usr/man/man.L"
 mansrc=`./loc . $prefixexp/man/man1 $lookpath`
 if $test -d "$mansrc"; then
```

```
  dflt="$mansrc"
 else
  dflt="$sysman"
 fi
 set dflt
 eval $prefixup
 ;;
' ') dflt=none;;
*)  dflt="$mansrc"
 ;;
esac
echo " "
fn=dn~
rp='Where do the manual pages (source) go?'
. ./getfile
if test
 "X$mansrcexp" != "X$ansexp"; then
 installmansrc="
fi
mansrc="$ans"
mansrcexp="$ansexp"
case "$mansrc" in
") mansrc=' '
 installmansrc=";;
esac
if $afs && $test "$mansrc"; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
manual pages reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installmansrc" in
 ") dflt=`echo $mansrcexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installmansrc";;
 esac
 fn=de~
 rp='Where will man pages be installed?'
 . ./getfile
 installmansrc="$ans"
else
 installmansrc="$mansrcexp"
fi

case "$mansrc" in
' ') manext='0';;
*l) manext=l;;
```

```
*n) manext=n;;
*o) manext=l;;
*p) manext=n;;
*C) manext=C;;
*L) manext=L;;
*L1) manext=L1;;
*) manext=1;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/mansrc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getprotobynumber_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getprotobynumber_r getprotobynumber_r_proto: Inlibc Protochk \
 Hasproto i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getprotobynumber_r:
?S: This variable conditionally defines the HAS_GETPROTOBYNUMBER_R symbol,
?S: which indicates to the C program that the getprotobynumber_r()
?S: routine is available.
?S:.
?S:getprotobynumber_r_proto:
?S: This variable encodes the prototype of getprotobynumber_r.
?S: It is zero if d_getprotobynumber_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getprotobynumber_r
?S: is defined.
?S:.
?C:HAS_GETPROTOBYNUMBER_R:
?C: This
 symbol, if defined, indicates that the getprotobynumber_r routine
?C: is available to getprotobynumber re-entrantly.
?C:.
?C:GETPROTOBYNUMBER_R_PROTO:
?C: This symbol encodes the prototype of getprotobynumber_r.
?C: It is zero if d_getprotobynumber_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getprotobynumber_r
?C: is defined.
?C:.
?H:#$d_getprotobynumber_r HAS_GETPROTOBYNUMBER_R /**/
```

```
?H:#define GETPROTOBYNUMBER_R_PROTO $getprotobynumber_r_proto /**/
?H:.
?T:try hdrs d_getprotobynumber_r_proto
: see if getprotobynumber_r exists
set getprotobynumber_r d_getprotobynumber_r
eval $inlibc
case "$d_getprotobynumber_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getprotobynumber_r_proto:$usethreads" in
 ":define") d_getprotobynumber_r_proto=define
  set d_getprotobynumber_r_proto getprotobynumber_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getprotobynumber_r_proto" in
 define)
 case "$getprotobynumber_r_proto"
 in
 "|0) try='int getprotobynumber_r(int, struct protoent*, char*, size_t, struct protoent**);'
 ./protochk "$extern_C $try" $hdrs && getprotobynumber_r_proto=I_ISBWR ;;
 esac
 case "$getprotobynumber_r_proto" in
 "|0) try='struct protoent* getprotobynumber_r(int, struct protoent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getprotobynumber_r_proto=S_ISBI ;;
 esac
 case "$getprotobynumber_r_proto" in
 "|0) try='int getprotobynumber_r(int, struct protoent*, struct protoent_data*);'
 ./protochk "$extern_C $try" $hdrs && getprotobynumber_r_proto=I_ISD ;;
 esac
 case "$getprotobynumber_r_proto" in
 "|0) d_getprotobynumber_r=undef
  getprotobynumber_r_proto=0
  echo "Disabling getprotobynumber_r, cannot determine prototype." >&4 ;;
 * ) case "$getprotobynumber_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getprotobynumber_r_proto="REENTRANT_PROTO_$getprotobynumber_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getprotobynumber_r
 has no prototype, not using it." >&4 ;;
  esac
  d_getprotobynumber_r=undef
  getprotobynumber_r_proto=0
  ;;
```

```
 esac
 ;;
*) getprotobynumber_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getprotobynumber_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:usemultiplicity: useithreads Myread Oldconfig Setvar
?MAKE: -pick add $@ %<
?Y:TOP
?S:usemultiplicity:
?S: This variable conditionally defines the MULTIPLICITY symbol,
?S: and indicates that Perl should be built to use multiplicity.
?S:.
?C:MULTIPLICITY:
?C: This symbol, if defined, indicates that Perl should
?C: be built to use multiplicity.
?C:.
?H:?%<:#ifndef MULTIPLICITY
?H:?%<:#$usemultiplicity MULTIPLICITY  /**/
?H:?%<:#endif
?H:.
?LINT:set usemultiplicity
?INIT:: set usemultiplicity on the Configure command line to enable multiplicity.
: Check if multiplicity is required
?X: We should really have some explanatory text here, and some
?X: automatic setting of sensible defaults.
cat <<EOM

Perl
 can be built so that multiple Perl interpreters can coexist
within the same Perl executable.
EOM

case "$useithreads" in
$define)
 cat <<EOM
```

```
This multiple interpreter support is required for interpreter-based threads.
EOM
 val="$define"
 ;;
*) case "$usemultiplicity" in
 $define|true|[yY]*) dflt='y';;
 *) dflt='n';;
 esac
 echo " "
 echo "If this doesn't make any sense to you, just accept the default '$dflt'."
 rp='Build Perl for multiplicity?'
 . ./myread
 case "$ans" in
 y|Y) val="$define" ;;
 *)      val="$undef" ;;
 esac
 ;;
esac
set usemultiplicity
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/usemultiplicity.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Myinit.U,v $
?RCS: Revision 3.0.1.1  1994/10/31  09:47:29  ram
?RCS: patch44: leading comment states this unit comes before option processing
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: If you want to initialize any default values, copy this unit to your
?X: personal U directory and add the assignments to the end.  This file
?X: is included after variables are initialized but before any old
?X: config.sh file is read in and before
```

```
 any Configure switch processing.
?X:
?MAKE:Myinit: Init
?MAKE: -pick add $@ %<
?LINT: nocomment
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Myinit.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2017, Karl Williamson
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_wchar: Inhdr
?MAKE: -pick add $@ %<
?S:i_wchar:
?S: This variable conditionally defines the I_WCHAR symbol,
?S: that indicates whether a C program may include <wchar.h>.
?S:.
?C:I_WCHAR:
?C: This symbol, if defined, indicates to the C program that <wchar.h>
?C: is available for inclusion
?C:.
?H:#$i_wchar   I_WCHAR /**/
?H:.
?LINT:set i_wchar
: see if wchar.h is present
set wchar.h i_wchar
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_wchar.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_getespwnam: Inlibc
?MAKE: -pick add $@ %<
?S:d_getespwnam:
?S: This variable conditionally defines HAS_GETESPWNAM if getespwnam() is
?S: available to retrieve enhanced (shadow) password entries by name.
?S:.
?C:HAS_GETESPWNAM:
?C: This symbol, if defined, indicates that the getespwnam system call is
?C: available to retrieve enhanced (shadow) password entries by name.
?C:.
?H:#$d_getespwnam HAS_GETESPWNAM  /**/
?H:.
?LINT:set d_getespwnam
: see if getespwnam exists
set getespwnam d_getespwnam
eval $inlibc
```

Found in
 path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getespwnam.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpgid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getpgid.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:33:44  ram
?RCS: patch61: created
?RCS:
?MAKE:d_getpgid: Inlibc
?MAKE: -pick add $@ %<
?S:d_getpgid:
?S: This variable conditionally defines the HAS_GETPGID symbol, which
?S: indicates to the C program that the getpgid(pid) function
```

```
?S: is available to get the process group id.
?S:.
?C:HAS_GETPGID:
?C: This symbol, if defined, indicates to the C program
 that
?C: the getpgid(pid) function is available to get the
?C: process group id.
?C:.
?H:#$d_getpgid HAS_GETPGID  /**/
?H:.
?LINT:set d_getpgid
: see if getpgid exists
set getpgid d_getpgid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getpgid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_lroundl: Inlibc
?MAKE: -pick add $@ %<
?S:d_lroundl:
?S: This variable conditionally defines the HAS_LROUNDL symbol, which
?S: indicates to the C program that the lroundl() routine is available
?S: to return the integral value nearest to x away from zero.
?S:.
?C:HAS_LROUNDL:
?C: This symbol, if defined, indicates that the lroundl routine is
?C: available to return the nearest integral value away from zero of
?C: the long double argument value.
?C:.
?H:#$d_lroundl HAS_LROUNDL  /**/
?H:.
?LINT:set d_lroundl
: see if lroundl exists
set lroundl d_lroundl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lroundl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: uidtype.U,v 3.0.1.3 1994/08/29 16:33:25 ram Exp $
```

```
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: uidtype.U,v $
?RCS: Revision 3.0.1.3  1994/08/29  16:33:25  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20  07:09:36  ram
?RCS: patch30: comment for uidtype referred to the obsoleted symbol
?RCS:
?RCS: Revision 3.0.1.1  1994/05/13  15:28:27  ram
?RCS: patch27: made conformant to its gidtype.U companion
?RCS: patch27: question now explicitly mentions getuid()
?RCS:
?RCS: Revision 3.0  1993/08/18
  12:09:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:uidtype: Myread Typedef Findhdr
?MAKE: -pick add $@ %<
?S:uidtype:
?S: This variable defines Uid_t to be something like uid_t, int,
?S: ushort, or whatever type is used to declare user ids in the kernel.
?S:.
?C:Uid_t (UIDTYPE):
?C: This symbol holds the type used to declare user ids in the kernel.
?C: It can be int, ushort, uid_t, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Uid_t $uidtype  /* UID type */
?H:.
?T:xxx
: see what type uids are declared as in the kernel
echo " "
echo "Looking for the type for user ids returned by getuid()."
set uid_t uidtype xxx stdio.h sys/types.h
eval $typedef
case "$uidtype" in
xxx)
 xxx=`./findhdr sys/user.h`
 set `grep '_ruid;' "$xxx" 2>/dev/null` unsigned short
 case $1 in
```

```
 unsigned) dflt="$1 $2" ;;
 *) dflt="$1" ;;
 esac
 ;;
*) dflt="$uidtype";;
esac
case "$uidtype" in
uid_t) echo "uid_t found." ;;
*) rp="What
 is the type for user ids returned by getuid()?"
 . ./myread
 uidtype="$ans"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/uidtype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strerror.U,v $
?RCS: Revision 3.0.1.3  1994/05/13  15:20:27  ram
?RCS: patch27: now uses new macro support for cleaner Strerror def
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  14:58:26  ram
?RCS: patch23: renamed strerror into Strerror to protect name space (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:08:56  ram
?RCS: patch16: protected code looking for sys_errnolist[] with @if
?RCS: patch16: added default value for d_sysernlst
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:35  ram
?RCS: Baseline
 for dist 3.0 netwide release.
?RCS:
?MAKE:d_strerror d_syserrlst d_sysernlst d_strerrm: contains Csym Findhdr
?MAKE: -pick add $@ %<
?S:d_strerror:
```

```
?S: This variable conditionally defines HAS_STRERROR if strerror() is
?S: available to translate error numbers to strings.
?S:.
?S:d_syserrlst:
?S: This variable conditionally defines HAS_SYS_ERRLIST if sys_errlist[] is
?S: available to translate error numbers to strings.
?S:.
?S:d_sysernlst:
?S: This variable conditionally defines HAS_SYS_ERRNOLIST if sys_errnolist[]
?S: is available to translate error numbers to the symbolic name.
?S:.
?S:d_strerrm:
?S: This variable holds what Strerr is defined as to translate an error
?S: code condition into an error message string. It could be 'strerror'
?S: or a more complex macro emulating strrror with sys_errlist[], or the
?S: "unknown" string when both strerror and sys_errlist are missing.
?S:.
?C:HAS_STRERROR (STRERROR):
?C: This symbol, if defined, indicates that the strerror routine is
?C: available
 to translate error numbers to strings. See the writeup
?C: of Strerror() in this file before you try to define your own.
?C:.
?C:HAS_SYS_ERRLIST (SYSERRLIST):
?C: This symbol, if defined, indicates that the sys_errlist array is
?C: available to translate error numbers to strings. The extern int
?C: sys_nerr gives the size of that table.
?C:.
?C:HAS_SYS_ERRNOLIST (SYSERRNOLIST):
?C: This symbol, if defined, indicates that the sys_errnolist array is
?C: available to translate an errno code into its symbolic name (e.g.
?C: ENOENT). The extern int sys_nerrno gives the size of that table.
?C:.
?C:Strerror:
?C: This preprocessor symbol is defined as a macro if strerror() is
?C: not available to translate error numbers to strings but sys_errlist[]
?C: array is there.
?C:.
?H:#$d_strerror HAS_STRERROR  /**/
?H:#$d_syserrlst HAS_SYS_ERRLIST /**/
?H:#$d_sysernlst HAS_SYS_ERRNOLIST /**/
?H:#define Strerror(e) $d_strerrm
?H:.
?D:d_sysernlst=''
?T:xxx val
: see if strerror and/or sys_errlist[]
 exist
echo " "
```

```
if set strerror val -f d_strerror; eval $csym; $val; then
 echo 'strerror() found.' >&4
 d_strerror="$define"
 d_strerrm='strerror(e)'
 if set sys_errlist val -a d_syserrlst; eval $csym; $val; then
  echo "(You also have sys_errlist[], so we could roll our own strerror.)"
  d_syserrlst="$define"
 else
 echo "(Since you don't have sys_errlist[], sterror() is welcome.)"
  d_syserrlst="$undef"
 fi
elif xxx=`./findhdr string.h`; test "$xxx" || xxx=`./findhdr strings.h`; \
 $contains '#[  ]*define.*strerror' "$xxx" >/dev/null 2>&1; then
 echo 'strerror() found in string header.' >&4
 d_strerror="$define"
 d_strerrm='strerror(e)'
 if set sys_errlist val -a d_syserrlst; eval $csym; $val; then
  echo "(Most probably, strerror() uses sys_errlist[] for descriptions.)"
  d_syserrlst="$define"
 else
  echo "(You don't appear to have any sys_errlist[], how can this be?)"
  d_syserrlst="$undef"
 fi
elif set sys_errlist val -a d_syserrlst; eval $csym; $val; then
echo "strerror()
 not found, but you have sys_errlist[] so we'll use that." >&4
 d_strerror="$undef"
 d_syserrlst="$define"
 d_strerrm='((e)<0||(e)>=sys_nerr?"unknown":sys_errlist[e])'
else
 echo 'strerror() and sys_errlist[] NOT found.' >&4
 d_strerror="$undef"
 d_syserrlst="$undef"
 d_strerrm='"unknown"'
fi
@if d_sysernlst || HAS_SYS_ERRNOLIST
if set sys_errnolist val -a d_sysernlst; eval $csym; $val; then
 echo "(Symbolic error codes can be fetched via the sys_errnolist[] array.)"
 d_sysernlst="$define"
else
 echo "(However, I can't extract the symbolic error code out of errno.)"
 d_sysernlst="$undef"
fi
@end
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strerror.U

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```
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?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strlcpy: Inlibc Hasproto d_gnulibc
?MAKE: -pick add $@ %<
?S:d_strlcpy:
?S: This variable conditionally defines the HAS_STRLCPY symbol, which
?S: indicates to the C program that the strlcpy () routine is available.
?S:.
?C:HAS_STRLCPY:
?C: This symbol, if defined, indicates that the strlcpy () routine is
?C: available to do string copying.
?C:.
?H:#$d_strlcpy HAS_STRLCPY  /**/
?H:.
?T:d_strlcpy_proto xx1 xx2 xx3 xx4
?LINT:set d_strlcpy
: see if strlcpy exists
: We need both a prototype in string.h and the symbol in libc.
echo " "
d_strlcpy_proto=''
xx1="#$d_gnulibc HAS_GNULIBC"
xx2='#if defined(HAS_GNULIBC) && !defined(_GNU_SOURCE)'
xx3='#   define _GNU_SOURCE'
xx4='#endif'
set d_strlcpy_proto strlcpy
 literal "$xx1" literal "$xx2" literal "$xx3" literal "$xx4" define string.h
eval $hasproto
case "$d_strlcpy_proto" in
   define) # see if strlcpy exists
 set strlcpy d_strlcpy
 eval $inlibc
 ;;
   *)  val=$undef
 set d_strlcpy
 eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strlcpy.U

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```
?RCS: $Id: newslib.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: newslib.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:23  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:newslib newslibexp: test inews Oldconfig Getfile
?MAKE: -pick add $@ %<
?S:newslib:
?S: This variable contains the eventual value of the NEWSLIB symbol,
?S: which holds the name of the directory serving as the news library.
?S: It may have a ~ on the front.  See newslibexp for expanded version.
?S:.
?S:newslibexp:
?S: This variable contains
 the ~ expanded name of the news library
?S: directory.  See newslib.
?S:.
?C:NEWSLIB:
?C: This symbol contains the name of the directory serving as the news
?C: library.  The program must be prepared to do ~ expansion on it.
?C:.
?C:NEWSLIB_EXP:
?C: This symbol is the ~ expanded version of NEWSLIB, for programs that
?C: do not wish to deal with it at run-time.
?C:.
?H:#define NEWSLIB "$newslib"  /**/
?H:#define NEWSLIB_EXP "$newslibexp" /**/
?H:.
?LINT:change inews
: figure out news library
case "$newslib" in
")
 dflt=/usr/lib/news
 ;;
*)  dflt=$newslib ;;
esac
echo " "
```

```
fn=d~
rp='Where is your news library?'
. ./getfile
newslib="$ans"
newslibexp="$ansexp"
if $test -f $newslibexp/inews; then
 echo "Aha!  Inews is really in $newslibexp!  Maybe this is 2.10.2..." >&4
 case "$inews" in
 inews)
  : null
  ;;
 *) echo "(Make sure $inews isn't an old version.)";;
 esac
 inews=$newslibexp/inews
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/newslib.U
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```
?RCS: $Id: h_fcntl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: h_fcntl.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:12  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:h_fcntl: Nothing
?MAKE: -pick add $@ %<
?S:h_fcntl:
?S: This is variable gets set in various places to tell i_fcntl that
?S: <fcntl.h> should be included.
?S:.
: Initialize h_fcntl
h_fcntl=false
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/h_fcntl.U

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```
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: pidtype.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:31:27  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:33  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:pidtype: Myread Typedef
?MAKE: -pick add $@ %<
?S:pidtype:
?S: This variable defines PIDTYPE to be something like pid_t, int,
?S: ushort, or whatever type is used to declare process ids in the kernel.
?S:.
?C:Pid_t (PIDTYPE):
?C: This symbol holds the type
 used to declare process ids in the kernel.
?C: It can be int, uint, pid_t, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Pid_t $pidtype  /* PID type */
?H:.
: see what type pids are declared as in the kernel
set pid_t pidtype int stdio.h sys/types.h
eval $typedef
dflt="$pidtype"
echo " "
rp="What type are process ids on this system declared as?"
. ./myread
pidtype="$ans"
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/pidtype.U
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: scandir.C,v 3.0.1.1 1994/01/24 13:58:45 ram Exp ram $
*
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*
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*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* $Log: scandir.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:45  ram
* patch16: created
*
*/
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/scandir.C
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_accessx: Inlibc
?MAKE: -pick add $@ %<
?S:d_accessx:
?S: This variable conditionally defines the HAS_ACCESSX symbol, which
?S: indicates to the C program that the accessx() routine is available.
?S:.
?C:HAS_ACCESSX :
?C: This symbol, if defined, indicates that the accessx routine is
?C: available to do extended access checks.
?C:.
?H:#$d_accessx HAS_ACCESSX  /**/
?H:.
?LINT:set d_accessx
: see if accessx exists
set accessx d_accessx
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/acl/d_accessx.U

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```
?RCS: $Id: d_shmctl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_shmctl.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:18  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_shmctl: Inlibc
?MAKE: -pick add $@ %<
?S:d_shmctl:
?S: This variable conditionally defines the HAS_SHMCTL symbol, which
?S: indicates to the C program that the shmctl() routine is available.
?S:.
?C:HAS_SHMCTL:
?C: This symbol, if defined, indicates that the shmctl() routine is
?C: available to perform shared memory control operations.
?C:.
?H:#$d_shmctl
 HAS_SHMCTL  /**/
?H:.
?LINT:set d_shmctl
: see if shmctl exists
set shmctl d_shmctl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_shmctl.U
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```
?RCS: $Id: d_dlsymun.U,v $
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_dlsymun.U,v $
?RCS:
```

```
?RCS:
?MAKE:d_dlsymun: cat cc ccflags ldflags ld rm Setvar dlsrc i_dlfcn i_stdlib \
 cccdlflags ccdlflags lddlflags libs dlext _o run to
?MAKE: -pick add $@ %<
?X: This is specific to perl5.
?S:d_dlsymun:
?S: This variable conditionally defines DLSYM_NEEDS_UNDERSCORE, which
?S: indicates that we need to prepend an underscore to the symbol
?S: name before calling dlsym().
?S:.
?C:DLSYM_NEEDS_UNDERSCORE:
?C: This symbol, if defined, indicates that we need to prepend an
?C: underscore to the symbol name before calling dlsym().  This only
?C: makes sense if you *have* dlsym, which we will presume is the
?C: case if you're using dl_dlopen.xs.
?C:.
?H:#$d_dlsymun DLSYM_NEEDS_UNDERSCORE /**/
?H:.
?LINT:set
 d_dlsymun
?T: xxx
?F:!fred
: Check if dlsym need a leading underscore
echo " "
val="$undef"

case "$dlsrc" in
dl_dlopen.xs)
 echo "Checking whether your dlsym() needs a leading underscore ..." >&4
 $cat >dyna.c <<'EOM'
fred () { }
EOM

$cat >fred.c<<EOM

#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_dlfcn I_DLFCN
#ifdef I_DLFCN
#include <dlfcn.h>      /* the dynamic linker include file for SunOS/Solaris */
#else
#include <sys/types.h>
#include <nlist.h>
#include <link.h>
#endif
```

```
extern int fred() ;

int main()
{
   void * handle ;
   void * symbol ;
#ifndef RTLD_LAZY
   int mode = 1 ;
#else
   int mode = RTLD_LAZY ;
#endif
   handle = dlopen("./dyna.$dlext", mode) ;
   if (handle == NULL) {
 printf ("1\n") ;
 fflush (stdout) ;
 exit(0);
   }
   symbol = dlsym(handle, "fred") ;
   if (symbol == NULL) {
 /* try putting a leading underscore */
 symbol = dlsym(handle, "_fred") ;
 if (symbol ==
 NULL) {
     printf ("2\n") ;
     fflush (stdout) ;
     exit(0);
 }
 printf ("3\n") ;
   }
   else
 printf ("4\n") ;
   fflush (stdout) ;
   exit(0);
}
EOM
 : Call the object file tmp-dyna.o in case dlext=o.
 if $cc $ccflags $cccdlflags -c dyna.c > /dev/null 2>&1 &&
  mv dyna${_o} tmp-dyna${_o} > /dev/null 2>&1 &&
  $ld -o dyna.$dlext $ldflags $lddlflags tmp-dyna${_o} > /dev/null 2>&1 &&
  $cc -o fred $ccflags $ldflags $cccdlflags $ccdlflags fred.c $libs > /dev/null 2>&1 && $to dyna.$dlext; then
  xxx=`$run ./fred`
  case $xxx in
  1) echo "Test program failed using dlopen." >&4
   echo "Perhaps you should not use dynamic loading." >&4;;
  2) echo "Test program failed using dlsym." >&4
   echo "Perhaps you should not use dynamic loading." >&4;;
  3) echo "dlsym needs a leading underscore" >&4
```

```
  val="$define" ;;
  4) echo "dlsym doesn't need a leading underscore." >&4;;
  esac
 else
  echo "I can't compile and run the test program." >&4
            echo "I'm guessing that dlsym
 doesn't need a leading underscore." >&4
 fi
 ;;
esac

$rm -f fred fred.* dyna.$dlext dyna.* tmp-dyna.*

set d_dlsymun
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_dlsymun.U
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```
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_sockatmarkproto: Hasproto d_socket
?MAKE: -pick add $@ %<
?S:d_sockatmarkproto:
?S: This variable conditionally defines the HAS_SOCKATMARK_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the sockatmark() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_SOCKATMARK_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the sockatmark() function.  Otherwise, it is up
?C: to the program to supply one.  A good
 guess is
?C:  extern int sockatmark(int);
?C:.
?H:#$d_sockatmarkproto HAS_SOCKATMARK_PROTO /**/
?H:.
```

```
?LINT:set d_sockatmarkproto
: see if prototype for sockatmark is available
echo " "
set d_sockatmarkproto sockatmark $d_socket sys/socket.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sockatmarkproto.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: fpu.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:10  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:fpu: test cat cc Myread
?MAKE: -pick add $@ %<
?S:fpu (fpunit):
?S: Set to be the compile flag for the local floating point unit.
?S:.
?C:FPU (FPUNIT):
?C: String containing the flags for the local floating point unit.
?C:.
?H:#define FPU "$fpu" /**/
?H:.
: see what floating point compile flags should be used.
fpu=''
if $test -r /dev/fpa; then
 $cat>fpa.c << GOOP
 main(){return(1);}
GOOP
 $cc
 -ffpa -o fpa fpa.c
 fpa > fpa.out 2>&1
 if $test ! -s fpa.out; then
  dflt='y'
  $cat <<'EOM'
```

```
You seem to have a sun fpa...  I can compile the code to use the fpa but it will
mean that the code can ONLY run on a machine with a fpa...

EOM
  rp="Should I compile for fpa?"
  . ./myread
  if $test $ans = "n"; then
    fpu=''
  else
    fpu='-ffpa'
  fi
 else
  $cat <<'EOM'

You have the fpa device but I can't seem to use it.  Maybe you should talk to
your sysadmin about this.  For now, I am not going to compile it in.

EOM
 fi
fi
if $test "$fpu" = ''; then
 if $test -r /usr/etc/mc68881version; then
  dflt='y'
  $cat <<'EOM'

There also seems to be the pieces for a 68881.  If I compile this in, it will
work on almost all Sun 3's except for a few Sun-3/50s without a 68881...

EOM
  rp="Should I compile for a 68881?"
  . ./myread
  if $test $ans = "y"; then
    fpu='-f68881'
  fi
 fi
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/fpu.U
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?RCS: $Id: inc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
?RCS: $Log: inc.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:inc incexp: Loc Oldconfig Getfile usrinc
?MAKE: -pick add $@ %<
?S:inc:
?S: This variable holds the name of the directory in which the user wants
?S: to put public header files for the package in question.  It is most
?S: often a local directory such as /usr/local/include.
?S:.
?S:incexp:
?S: This is the same as the inc variable, but is filename
 expaned
?S: at configuration time for convenient use in your makefiles.
?S:.
: determine where public header files go
case "$inc" in
")
 dflt=`./loc . "." /usr/local/include /usr/include/local $usrinc`
 ;;
*)  dflt="$inc"
 ;;
esac
fn=d~
rp='Where do you want to put the public header files?'
. ./getfile
inc="$ans"
incexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/inc.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: Original Author: Thomas Neumann <tom@smart.bo.open.de>
?RCS:
?RCS: $Log: Findhdr.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  15:53:08  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:03:56  ram
?RCS: patch23: cppminus must be after other cppflags, not before
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a findhdr script which is used to locate the header
?X: files
 in $usrinc or other stranger places using cpp capabilities. The
?X: script is given an include file base name, like 'stdio.h' or 'sys/file.h'
?X: and it returns the full path of the include file and a zero status or an
?X: empty string with an error status if the file could not be located.
?X:
?MAKE:Findhdr: grep test tr rm +usrinc awk cat startsh \
 cppstdin cppminus +cppflags eunicefix osname
?MAKE: -pick add $@ %<
?LINT:define fieldn
?S:fieldn:
?S: This variable is used internally by Configure. It contains the position
?S: of the included file name in cpp output. That is to say, when cpp
?S: pre-processes a #include <file> line, it replaces it by a # line which
?S: contains the original position in the input file and the full name of
?S: included file, between "quotes".
?S:.
?V:fieldn
?F:./findhdr !fieldn
?T:cline pos wanted name awkprg cppfilter testaccess status usrincdir
: determine filename position in cpp output
echo " "
echo "Computing filename position in cpp output for #include
 directives..." >&4
echo '#include <stdio.h>' > foo.c
case "$osname" in
vos)
 testaccess=-e
?X: VOS: path component separator is >
 cppfilter="tr '\\\\>' '/' |"
 ;;
*)
 testaccess=-r
```

```
 cppfilter="
 ;;
esac
$cat >fieldn <<EOF
$startsh
$cppstdin $cppflags $cppminus <foo.c 2>/dev/null | \
$grep '^[  ]*#.*stdio\.h' | \
while read cline; do
 pos=1
 set \$cline
 while $test \$# -gt 0; do
  if $test $testaccess \`echo \$1 | $tr -d '"'\`; then
   echo "\$pos"
   exit 0
  fi
  shift
  pos=\`expr \$pos + 1\`
 done
done
EOF
chmod +x fieldn
fieldn=`./fieldn`
$rm -f foo.c fieldn
case $fieldn in
") pos='???';;
1) pos=first;;
2) pos=second;;
3) pos=third;;
*) pos="${fieldn}th";;
esac
echo "Your cpp writes the filename in the $pos field of the line."

?X: To locate a header file, we cannot simply check for $usrinc/file.h, since
?X: some machine have the headers in weird places and our only hope is that
?X: the C pre-processor will know how to find those headers. Thank you NexT!
: locate header file
$cat
 >findhdr <<EOF
$startsh
wanted=\$1
name="
for usrincdir in $usrinc; do
 if test -f \$usrincdir/\$wanted; then
  echo "\$usrincdir/\$wanted"
  exit 0
 fi
done
awkprg='{ print \$$fieldn }'
```

```
echo "#include <\$wanted>" > foo\$\$.c
$cppstdin $cppminus $cppflags < foo\$\$.c 2>/dev/null | \
$cppfilter $grep "^[  ]*#.*\$wanted" | \
while read cline; do
 name=\`echo \$cline | $awk "\$awkprg" | $tr -d '"'\`
 case "\$name" in
 *[/\\\\]\$wanted) echo "\$name"; exit 1;;
 *[\\\\/]\$wanted) echo "\$name"; exit 1;;
 *) exit 2;;
 esac
done
?X: status = 0: grep returned 0 lines, case statement not executed
?X: status = 1: headerfile found
?X: status = 2: while loop executed, no headerfile found
status=\$?
$rm -f foo\$\$.c
if test \$status -eq 1; then
 exit 0
fi
exit 1
EOF
chmod +x findhdr
$eunicefix findhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Findhdr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Signal.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Signal.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:20:01  ram
?RCS: patch61: created
?RCS:
?X:
?X: This unit produces three files:
?X: 1- A signal.c file, which, when compiled and run, produces an output like:
?X:
?X:   HUP 1
```

```
?X:   INT 2
?X:   QUIT 3
?X:   etc...
?X:
?X: 2- A signal.awk script to parse the output of signal.c, fill
?X: in gaps (up to NSIG) and move duplicates to the end.
?X: 3- A signal_cmd script to compile signal.c and run it
?X: through
 sort -n -k 2 | uniq | awk -f signal.awk.
?X: (we try also sort -n +1 since some old hosts don't grok sort -k)
?X: (This is called signal_cmd to avoid OS/2 confusion with
?X: signal.cmd vs. signal.
?X: The signal_cmd script also falls back on checking signals one at a
?X: time in case the signal.c program fails.  On at least one version of
?X: Linux 2.1.x, the header file #define'd SIGRTMAX to a symbol that
?X: is not defined by the compiler/linker. :-(.  Further, on that same
?X: version of Linux, the user had a defective C-shell that gave an
?X: incorrect list for kill -l, so the fall-back didn't work.
?X:
?X: This unit is then used by sig_name.U.
?X:
?MAKE:Signal: test tr rm awk cat grep startsh eunicefix sed sort uniq \
 Findhdr cppstdin +cppflags cppminus Compile _o _exe trnl run i_stdlib \
 sysroot
?MAKE: -pick add $@ %<
?X:all files declared as "public" since they're used from other units
?F:signal.c signal_cmd signal.lst signal signal.awk
?T: xx xxx xxxfiles
?LINT:use rm run
 _o _exe
?LINT:extern sig_num_init
: Trace out the files included by signal.h, then look for SIGxxx names.
?X: Remove SIGARRAYSIZE used by HPUX.
?X: Remove SIGSTKSIZE used by Linux.
?X: Remove SIGSTKSZ used by POSIX.
?X: Remove SIGTYP void lines used by OS2.
?X: Some cpps, like os390, do not give the file name anywhere
case "$sig_num_init" in
")
if [ "X$fieldn" = X ]; then
 : Just make some guesses.  We check them later.
 xxx="$sysroot/usr/include/signal.h $sysroot/usr/include/sys/signal.h"
else
 xxx=`echo '#include <signal.h>' |
 $cppstdin $cppminus $cppflags 2>/dev/null |
 $grep '^[  ]*#.*include' |
 $awk "{print \\$$fieldn}" | $sed 's!"!!g' |\
  $sed 's!\\\\\\\\!/!g' | $sort | $uniq`
```

```
fi
?X: Check this list of files to be sure we have parsed the cpp output ok.
?X: This will also avoid potentially non-existent files, such
?X: as ../foo/bar.h
xxxfiles="
?X: Add /dev/null in case the $xxx list is empty.
for xx in $xxx /dev/null ; do
 $test -f "$xx" && xxxfiles="$xxxfiles $xx"
done
?X:
 If we have found no files, at least try signal.h
case "$xxxfiles" in
") xxxfiles=`./findhdr signal.h` ;;
esac
xxx=`awk '
$1 ~ /^#define$/ && $2 ~ /^SIG[A-Z0-9]*$/ && $2 !~ /SIGARRAYSIZE/ && $2 !~ /SIGSTKSIZE/ && $2 !~
/SIGSTKSZ/ && $3 !~ /void/ {
 print substr($2, 4, 20)
}
$1 == "#" && $2 ~ /^define$/ && $3 ~ /^SIG[A-Z0-9]*$/ && $3 !~ /SIGARRAYSIZE/ && $4 !~ /void/ {
 print substr($3, 4, 20)
}' $xxxfiles`
: Append some common names just in case the awk scan failed.
xxx="$xxx ABRT ALRM BUS CANCEL CHLD CLD CONT DIL EMT FPE"
xxx="$xxx FREEZE HUP ILL INT IO IOT KILL LOST LWP PHONE"
xxx="$xxx PIPE POLL PROF PWR QUIT RTMAX RTMIN SEGV STKFLT STOP"
xxx="$xxx SYS TERM THAW TRAP TSTP TTIN TTOU URG USR1 USR2"
xxx="$xxx USR3 USR4 VTALRM WAITING WINCH WIND WINDOW XCPU XFSZ"

: generate a few handy files for later
$cat > signal.c <<EOCP
#include <sys/types.h>
#include <signal.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <stdio.h>
int main() {

/* Strange style to avoid
 deeply-nested #if/#else/#endif */
#ifndef NSIG
#  ifdef _NSIG
#    define NSIG (_NSIG)
#  endif
#endif
```

```
#ifndef NSIG
#  ifdef SIGMAX
#    define NSIG (SIGMAX+1)
#  endif
#endif

#ifndef NSIG
#  ifdef SIG_MAX
#    define NSIG (SIG_MAX+1)
#  endif
#endif

#ifndef NSIG
#  ifdef _SIG_MAX
#    define NSIG (_SIG_MAX+1)
#  endif
#endif

#ifndef NSIG
#  ifdef MAXSIG
#    define NSIG (MAXSIG+1)
#  endif
#endif

#ifndef NSIG
#  ifdef MAX_SIG
#    define NSIG (MAX_SIG+1)
#  endif
#endif

#ifndef NSIG
#  ifdef SIGARRAYSIZE
#    define NSIG SIGARRAYSIZE /* Assume ary[SIGARRAYSIZE] */
#  endif
#endif

#ifndef NSIG
#  ifdef _sys_nsig
#    define NSIG (_sys_nsig) /* Solaris 2.5 */
#  endif
#endif

/* Default to some arbitrary number that's big enough to get most
  of the common signals.
*/
#ifndef NSIG
#    define NSIG 50
#endif
```

```
printf("NSIG %d\n", NSIG);

#ifndef JUST_NSIG

EOCP

echo $xxx | $tr ' ' $trnl | $sort | $uniq | $awk '
{
 printf "#ifdef SIG"; printf $1; printf "\n"
 printf "printf(\"";
 printf $1; printf " %%d\\n\",SIG";
 printf $1; printf ");\n"
 printf "#endif\n"
}
END {
 printf "#endif /* JUST_NSIG */\n";
 printf "exit(0);\n}\n";
}
' >>signal.c
$cat >signal.awk <<'EOP'
BEGIN { ndups = 0 }
$1 ~ /^NSIG$/ { nsig = $2 }
($1 !~ /^NSIG$/) && (NF == 2) && ($2 ~ /^[0-9][0-9]*$/) {
   if ($2 > maxsig) { maxsig = $2 }
   if (sig_name[$2]) {
 dup_name[ndups] = $1
 dup_num[ndups] = $2
 ndups++
   }
   else {
 sig_name[$2] = $1
 sig_num[$2] = $2
   }
}
END {
   if (nsig == 0) {
    nsig = maxsig + 1
   }
   printf("NSIG %d\n", nsig);
   for (n = 1; n < nsig; n++) {
 if (sig_name[n]) {
     printf("%s %d\n", sig_name[n], sig_num[n])
 }
 else {
     printf("NUM%d %d\n", n, n)
 }
   }
```

```
   for (n = 0; n < ndups; n++) {
 printf("%s %d\n", dup_name[n], dup_num[n])
   }
}
EOP
$cat >signal_cmd <<EOS
$startsh
if $test -s signal.lst; then
   echo "Using your existing signal.lst file"
 exit 0
fi
xxx="$xxx"
EOS
?X: Avoid variable interpolation problems, especially with
?X:
 xxx, which contains newlines.
$cat >>signal_cmd <<'EOS'

set signal
if eval $compile_ok; then
 $run ./signal$_exe | ($sort -n -k 2 2>/dev/null || $sort -n +1) |\
  $uniq | $awk -f signal.awk >signal.lst
else
 echo "(I can't seem be able to compile the whole test program)" >&4
 echo "(I'll try it in little pieces.)" >&4
 set signal -DJUST_NSIG
 if eval $compile_ok; then
  $run ./signal$_exe > signal.nsg
  $cat signal.nsg
 else
  echo "I can't seem to figure out how many signals you have." >&4
  echo "Guessing 50." >&4
  echo 'NSIG 50' > signal.nsg
 fi
 : Now look at all the signal names, one at a time.
 for xx in `echo $xxx | $tr ' ' $trnl | $sort | $uniq`; do
  $cat > signal.c <<EOCP
#include <sys/types.h>
#include <signal.h>
#include <stdio.h>
int main() {
printf("$xx %d\n", SIG${xx});
return 0;
}
EOCP
  set signal
  if eval $compile; then
   echo "SIG${xx} found."
```

```
  $run ./signal$_exe  >> signal.ls1
 else
  echo "SIG${xx} NOT found."
 fi
done
if $test -s signal.ls1; then
 $cat
signal.nsg signal.ls1 |
  $sort -n | $uniq | $awk -f signal.awk >signal.lst
fi

fi
if $test -s signal.lst; then
 :
else
 echo "(AAK! I can't compile the test programs -- Guessing)" >&4
 echo 'kill -l' >signal
 set X `csh -f <signal`
 $rm -f signal
 shift
 case $# in
 0) set HUP INT QUIT ILL TRAP ABRT EMT FPE KILL BUS SEGV SYS PIPE ALRM TERM;;
 esac
 echo $@ | $tr ' ' $trnl | \
    $awk '{ printf "%s %d\n", $1, ++s; }
   END { printf "NSIG %d\n", ++s }' >signal.lst
fi
$rm -f signal.c signal$_exe signal$_o signal.nsg signal.ls1
EOS
chmod a+x signal_cmd
$eunicefix signal_cmd
;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Signal.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_llroundl: Inlibc
?MAKE: -pick add $@ %<
?S:d_llroundl:
?S: This variable conditionally defines the HAS_LLROUNDL symbol, which
?S: indicates to the C program that the llroundl() routine is available
?S: to return the long long value nearest to x away from zero.
```

```
?S:.
?C:HAS_LLROUNDL:
?C: This symbol, if defined, indicates that the llroundl routine is
?C: available to return the nearest long long value away from zero of
?C: the long double argument value.
?C:.
?H:#$d_llroundl HAS_LLROUNDL  /**/
?H:.
?LINT:set d_llroundl
: see if llroundl exists
set llroundl d_llroundl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_llroundl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_time.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:07:43  ram
?RCS: patch56: typo fix, sytem -> system
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:16:38  ram
?RCS: patch36: now uses new Typedef unit to compute type information (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X: Maybe <sys/types.h> should be included?
?X:INC: i_systypes
?MAKE:d_time timetype: Csym Setvar Findhdr Myread Typedef
?MAKE: -pick add $@ %<
?S:d_time:
?S: This
 variable conditionally defines the HAS_TIME symbol, which indicates
?S: that the time() routine exists.  The time() routine is normally
?S: provided on UNIX systems.
?S:.
```

```
?S:timetype:
?S: This variable holds the type returned by time(). It can be long,
?S: or time_t on BSD sites (in which case <sys/types.h> should be
?S: included). Anyway, the type Time_t should be used.
?S:.
?C:HAS_TIME (TIMER):
?C: This symbol, if defined, indicates that the time() routine exists.
?C:.
?C:Time_t (TIMETYPE):
?C: This symbol holds the type returned by time(). It can be long,
?C: or time_t on BSD sites (in which case <sys/types.h> should be
?C: included).
?C:.
?H:#$d_time HAS_TIME  /**/
?H:#define Time_t $timetype  /* Time type */
?H:.
?LINT:set d_time
: see if time exists
echo " "
if set time val -f d_time; eval $csym; $val; then
 echo 'time() found.' >&4
 val="$define"
 set time_t timetype long stdio.h sys/types.h
 eval $typedef
 dflt="$timetype"
 echo " "
 rp="What type is returned by time() on this
 system?"
 . ./myread
 timetype="$ans"
else
 echo 'time() not found, hope that will do.' >&4
 val="$undef"
 timetype='int';
fi
set d_time
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_time.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getnbyad.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getnbyaddr: Inlibc
?MAKE: -pick add $@ %<
?S:d_getnbyaddr:
?S: This variable conditionally defines the HAS_GETNETBYADDR symbol, which
?S: indicates to the C program that the getnetbyaddr() routine is available
?S: to look up networks by their IP addresses.
?S:.
?C:HAS_GETNETBYADDR:
?C: This symbol, if defined, indicates that the getnetbyaddr() routine is
?C: available to look up networks by their IP addresses.
?C:.
?H:#$d_getnbyaddr HAS_GETNETBYADDR  /**/
?H:.
?LINT:set d_getnbyaddr
: see if getnetbyaddr exists
set getnetbyaddr d_getnbyaddr
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_getnbyad.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: archname.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:24:32  ram
?RCS: patch61: changed the way the archname is mangled from uname
?RCS:
?RCS: Revision 3.0.1.2  1995/05/12  12:05:24  ram
?RCS: patch54: protect against spaces in "uname -m" output (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1995/02/15  14:14:21  ram
?RCS: patch51: created
?RCS:
?MAKE:archname myarchname: sed Loc Myread Oldconfig osname test rm
?MAKE: -pick add $@ %<
?S:archname:
```

```
?S: This variable is a short name to characterize the current
?S: architecture.
  It is used mainly to construct the default archlib.
?S:.
?S:myarchname:
?S: This variable holds the architecture name computed by Configure in
?S: a previous run. It is not intended to be perused by any user and
?S: should never be set in a hint file.
?S:.
?C:ARCHNAME:
?C: This symbol holds a string representing the architecture name.
?C: It may be used to construct an architecture-dependant pathname
?C: where library files may be held under a private library, for
?C: instance.
?C:.
?H:#define ARCHNAME "$archname"  /**/
?H:.
?T:xxx tarch
: determine the architecture name
echo " "
?X: We always recompute archname in case osname changes. However, we need
?X: to be careful since, as ADO rightfully pointed out, some systems pick
?X: silly architecture names (0001307135000-aix on AIX or 9000/715-ux under
?X: HP-UX). Therefore, we allow hint files to superseed our guess and ask
?X: the user for confirmation.
if xxx=`./loc arch blurfl $pth`; $test -f "$xxx"; then
 tarch=`arch`"-$osname"
elif
 xxx=`./loc uname blurfl $pth`; $test -f "$xxx" ; then
 if uname -m > tmparch 2>&1 ; then
  tarch=`$sed -e 's/ *$//' -e 's/ /_/g' \
   -e 's/$/"'-$osname/" tmparch`
 else
  tarch="$osname"
 fi
 $rm -f tmparch
else
 tarch="$osname"
fi
case "$myarchname" in
"|"$tarch") ;;
*)
 echo "(Your architecture name used to be $myarchname.)"
 archname="
 ;;
esac
case "$archname" in
") dflt="$tarch";;
```

```
*) dflt="$archname";;
esac
rp='What is your architecture name'
. ./myread
archname="$ans"
myarchname="$tarch"
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/archname.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Options.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Options.U,v $
?RCS: Revision 3.0.1.7  1997/02/28  15:08:15  ram
?RCS: patch61: optdef.sh now starts with a "startsh"
?RCS: patch61: moved some code from Head.U
?RCS:
?RCS: Revision 3.0.1.6  1995/09/25  09:14:46  ram
?RCS: patch59: protected option parsing code against 'echo -*' option failure
?RCS:
?RCS: Revision 3.0.1.5  1995/05/12  12:04:52  ram
?RCS: patch54: added -K option for experts
?RCS:
?RCS: Revision 3.0.1.4  1995/01/30  14:27:52  ram
?RCS:
 patch49: this unit now exports file optdef.sh, not a variable
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:19:00  ram
?RCS: patch45: new -O option allowing -D and -U to override config.sh settings
?RCS: patch45: file optdef.sh is no longer removed after sourcing
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  15:58:06  ram
?RCS: patch36: ensure option definition file is removed before appending
?RCS: patch36: protect variable definitions with spaces in them
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:55:44  ram
?RCS: patch30: now uses new me symbol to tag error messages
?RCS: patch30: new -D and -U options to define/undef symbols (JHI)
```

```
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Command line parsing. It is really important that the variables used here
?X: be not listed in the MAKE line, or they will be saved in config.sh and
?X: loading this file to fetch default answers would clobber the values set
?X: herein.
?X:
?MAKE:Options:
 startsh
?MAKE: -pick wipe $@ %<
?V:reuseval alldone error realsilent silent extractsh fastread \
 knowitall: config_sh
?T:arg argn symbol config_arg0 config_args config_argc xxx yyy zzz uuu
?T:args_exp args_sep arg_exp ccflags
?F:!Configure
?F:./optdef.sh ./cmdline.opt ./posthint.sh ./cmdl.opt
: Save command line options in file UU/cmdline.opt for later use in
: generating config.sh.
?X: This temporary file will be read by Oldsym.U.  I used a temporary
?X: file to preserve all sorts of potential command line quotes and
?X: also because we don't know in advance how many variables we'll
?X: need, so I can't actually declare them on the MAKE line.
?X: The config_args variable won't be quite correct if Configure is
?X: fed something like    ./Configure -Dcc="gcc -B/usr/ccs/bin/"
?X: since the quotes are gone by the time we see them.  You'd have to
?X: reconstruct the command line from the config_arg? lines, but since
?X: I don't imagine anyone actually having to do that, I'm not going
?X:
 to worry too much.
cat > cmdline.opt <<EOSH
: Configure command line arguments.
config_arg0='$0'
config_args='$*'
config_argc=$#
EOSH
argn=1
args_exp=''
args_sep=''
for arg in "$@"; do
 cat >>cmdline.opt <<EOSH
config_arg$argn='$arg'
EOSH
?X: Extreme backslashitis: replace each ' by '''''
 cat <<EOC | sed -e "s/'/'''''''''''''''/g" > cmdl.opt
$arg
```

```
EOC
 arg_exp=`cat cmdl.opt`
 args_exp="$args_exp$args_sep'$arg_exp'"
 argn=`expr $argn + 1`
 args_sep=' '
done
?X: args_exp is good for restarting self: eval "set X $args_exp"; shift; $0 "$@"
?X: used by hints/os2.sh in Perl, for instance
rm -f cmdl.opt

: produce awk script to parse command line options
cat >options.awk <<'EOF'
BEGIN {
 optstr = "A:dD:eEf:hKOrsSU:V"; # getopt-style specification

 len = length(optstr);
 for (i = 1; i <= len; i++) {
  c = substr(optstr, i, 1);
?X: some older awk's do not have the C ?: construct
  if (i < len) a = substr(optstr, i + 1, 1); else a = "";
  if (a == ":") {
   arg[c] = 1;
   i++;
  }
  opt[c]
 = 1;
 }
}
{
 expect = 0;
 str = $0;
 if (substr(str, 1, 1) != "-") {
  printf("'%s'\n", str);
  next;
 }
 len = length($0);
 for (i = 2; i <= len; i++) {
  c = substr(str, i, 1);
  if (!opt[c]) {
   printf("-%s\n", substr(str, i));
   next;
  }
  printf("-%s\n", c);
  if (arg[c]) {
   if (i < len)
    printf("'%s'\n", substr(str, i + 1));
   else
    expect = 1;
```

```
   next;
  }
 }
}
END {
 if (expect)
  print "?";
}
EOF

: process the command line options
?X: Use "$@" to keep arguments with spaces in them from being split apart.
?X: For the same reason, awk will output quoted arguments and the final eval
?X: removes them and sets a proper $* array. An 'X' is prepended to each
?X: argument before being fed to echo to guard against 'echo -x', where -x
?X: would be understood as an echo option! It is removed before feeding awk.
set X `for arg in "$@"; do echo "X$arg"; done |
 sed -e s/X// | awk -f options.awk`
eval "set $*"
shift
rm -f options.awk

: set up default values
fastread=''
reuseval=false
config_sh=''
alldone=''
error=''
silent=''
extractsh=''
knowitall=''
rm
 -f optdef.sh posthint.sh
cat >optdef.sh <<EOS
$startsh
EOS

?X:
?X: Given that we now have the possibility to execute Configure remotely
?X: thanks to the new src.U support, we have to face the possibility
?X: of having to ask where the source lie, which means we need the Myread.U
?X: stuff and possibly other things that might echo something on the
?X: screen...
?X:
?X: That's not pretty, and might be confusing in 99% of the time. So...
?X: We introduce a new realsilent variable which is set when -s is given,
?X: and we force silent=true if -S is supplied. The Extractall.U unit
?X: will then undo the >&4 redirection based on the value of the
```

```
?X: realsilent variable... -- RAM, 18/93/96
?X:

: option parsing
while test $# -gt 0; do
 case "$1" in
 -d) shift; fastread=yes;;
 -e) shift; alldone=cont;;
 -f)
  shift
  cd ..
  if test -r "$1"; then
   config_sh="$1"
  else
   echo "$me: cannot read config file $1."
 >&2
   error=true
  fi
  cd UU
  shift;;
 --help|\
 -h) shift; error=true;;
 -r) shift; reuseval=true;;
 -s) shift; silent=true; realsilent=true;;
 -E) shift; alldone=exit;;
 -K) shift; knowitall=true;;
 -O) shift;;
 -S) shift; silent=true; extractsh=true;;
 -D)
  shift
  case "$1" in
  *=)
   echo "$me: use '-U symbol=', not '-D symbol='." >&2
   echo "$me: ignoring -D $1" >&2
   ;;
  *=*) echo "$1" | \
    sed -e "s/'/'\''\''/g" -e "s/=\(.*\)/='\1'/" >> optdef.sh;;
  *) echo "$1='define'" >> optdef.sh;;
  esac
  shift
  ;;
 -U)
  shift
  case "$1" in
  *=) echo "$1" >> optdef.sh;;
  *=*)
   echo "$me: use '-D symbol=val', not '-U symbol=val'." >&2
   echo "$me: ignoring -U $1" >&2
```

```
 ;;
*) echo "$1='undef'" >> optdef.sh;;
esac
shift
;;
-A)
   shift
   xxx=''
   yyy="$1"
   zzz=''
   uuu=undef
   case "$yyy" in
        *=*) zzz=`echo "$yyy"|sed 's!=.*!!'`
             case "$zzz" in
             *:*) zzz='' ;;
             *)   xxx=append

             zzz=' '`echo "$yyy"|sed 's!^[^=]*=!!'`
                  yyy=`echo "$yyy"|sed 's!=.*!!'` ;;
             esac
             ;;
        esac
        case "$xxx" in
        '')  case "$yyy" in
             *:*) xxx=`echo "$yyy"|sed 's!:.*!!'`
                  yyy=`echo "$yyy"|sed 's!^[^:]*:!!'`
                  zzz=`echo "$yyy"|sed 's!^[^=]*=!!'`
                  yyy=`echo "$yyy"|sed 's!=.*!!'` ;;
             *)   xxx=`echo "$yyy"|sed 's!:.*!!'`
                  yyy=`echo "$yyy"|sed 's!^[^:]*:!!'` ;;
             esac
             ;;
        esac
   case "$xxx" in
   append)
echo "$yyy=\"\${$yyy}$zzz\"" >> posthint.sh ;;
   clear)
echo "$yyy=''   >> posthint.sh ;;
   define)
       case "$zzz" in
'') zzz=define ;;
esac
echo "$yyy='$zzz'"  >> posthint.sh ;;
   eval)
echo "eval \"$yyy=$zzz\"" >> posthint.sh ;;
   prepend)
echo "$yyy=\"$zzz\${$yyy}\"" >> posthint.sh ;;
   undef)
```

```
      case "$zzz" in
 ") zzz="$uuu" ;;
 esac
 echo "$yyy=$zzz"  >> posthint.sh ;;
         *)  echo "$me: unknown -A command '$xxx', ignoring -A $1" >&2 ;;
    esac
    shift
    ;;
 -V) echo "$me generated by metaconfig <VERSION> PL<PATCHLEVEL>." >&2
    exit 0;;
 --) break;;
 -*) echo "$me: unknown option $1" >&2; shift; error=true;;
 *) break;;
 esac
done

case "$error" in
true)
 cat >&2 <<EOM
Usage: $me [-dehrsEKOSV] [-f config.sh] [-D symbol] [-D symbol=value]
               [-U symbol] [-U symbol=] [-A command:symbol...]
 -d : use defaults for all answers.
 -e : go on without questioning past the production of config.sh.
 -f : specify an alternate default configuration file.
 -h : print this help message and exit (with an error status).
 -r : reuse C symbols value if possible (skips costly nm extraction).
 -s : silent mode, only echoes questions and essential information.
 -D : define symbol to have some value:
       -D symbol               symbol gets the
 value 'define'
       -D symbol='some value'   symbol is set to 'some value'
     common used examples (see INSTALL for more info):
       -Duse64bitint           use 64bit integers
       -Duse64bitall           use 64bit integers and pointers
       -Dusethreads            use thread support
       -Dinc_version_list=none  do not include older perl trees in @INC
       -DEBUGGING=none         DEBUGGING options
       -Dcc=gcc                choose your compiler
       -Dprefix=/opt/perl5      choose your destination
 -E : stop at the end of questions, after having produced config.sh.
 -K : do not use unless you know what you are doing.
 -O : ignored for backward compatibility
 -S : perform variable substitutions on all .SH files (can mix with -f)
 -U : undefine symbol:
       -U symbol    symbol gets the value 'undef'
       -U symbol=   symbol gets completely empty
     e.g.:  -Uversiononly
```

```
 -A : manipulate symbol after the platform specific hints
 have been applied:
        -A append:symbol=value   append value to symbol
        -A symbol=value          like append:, but with a separating space
        -A define:symbol=value   define symbol to have value
        -A clear:symbol          define symbol to be ''
        -A define:symbol         define symbol to be 'define'
        -A eval:symbol=value     define symbol to be eval of value
        -A prepend:symbol=value  prepend value to symbol
        -A undef:symbol          define symbol to be 'undef'
        -A undef:symbol=         define symbol to be ''
      e.g.:  -A prepend:libswanted='cl pthread '
             -A ccflags=-DSOME_MACRO
 -V : print version number and exit (with a zero status).
EOM
 exit 1
 ;;
esac

?X:
?X: Unless they specified either -S or both -d and -e/E, make sure we're
?X: running interactively, i.e. attached to a terminal. Moved from Head.U to
?X: be able to handle batch configurations...
?X:
?X: We have to hardwire the Configure name and
 cannot use $me, since if they
?X: said 'sh <Configure', then $me is 'sh'...
?X:
: Sanity checks
case "$fastread$alldone" in
yescont|yesexit) ;;
*)
 case "$extractsh" in
 true) ;;
 *)
  if test ! -t 0; then
   echo "Say 'sh Configure', not 'sh <Configure'"
   exit 1
  fi
  ;;
 esac
 ;;
esac

?X: In silent mode, the standard output is closed. Questions are asked by
?X: outputing on file descriptor #4, which is the original stdout descriptor.
?X: This filters out all the "junk", since all the needed information is written
?X: on #4. Note that ksh will not let us redirect output if the file descriptor
```

```
?X: has not be defined yet, unlike sh, hence the following line...--RAM.
exec 4>&1
case "$silent" in
true) exec 1>/dev/null;;
esac

: run the defines and the undefines, if any, but leave the file out there...
touch optdef.sh
?X: -q is POSIX
?X: It does not work in SysV (solaris) or old BSD greps.
grep '\\' optdef.sh >/dev/null 2>&1
if test $? = 0; then
   echo "Configure does not support \\
 in -D arguments"
   exit 1
fi
. ./optdef.sh
: create the posthint manipulation script and leave the file out there...
?X: this file will be perused by Oldconfig.U
touch posthint.sh
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Options.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: selecttype.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:20:09  ram
?RCS: patch61: always include <sys/select.h> when available for test
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  14:14:06  ram
?RCS: patch56: removed harmful spaces in assignment
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:06:31  ram
?RCS: patch30: created by ADO
?RCS:
```

```
?MAKE:selecttype: cat +cc +ccflags rm Oldconfig Myread \
 d_fd_set d_select d_socket i_systime
 i_sysselct
?MAKE: -pick add $@ %<
?S:selecttype:
?S: This variable holds the type used for the 2nd, 3rd, and 4th
?S: arguments to select.  Usually, this is 'fd_set *', if HAS_FD_SET
?S: is defined, and 'int *' otherwise.  This is only useful if you
?S: have select(), naturally.
?S:.
?C:Select_fd_set_t:
?C: This symbol holds the type used for the 2nd, 3rd, and 4th
?C: arguments to select.  Usually, this is 'fd_set *', if HAS_FD_SET
?C: is defined, and 'int *' otherwise.  This is only useful if you
?C: have select(), of course.
?C:.
?H:#define Select_fd_set_t  $selecttype /**/
?H:.
?T:xxx yyy
: check for type of arguments to select.  This will only really
: work if the system supports prototypes and provides one for
: select.
case "$d_select" in
$define)
 : Make initial guess
 case "$selecttype" in
 "|' ')
  case "$d_fd_set" in
  $define) xxx='fd_set *' ;;
  *) xxx='int *' ;;
  esac
  ;;
 *)  xxx="$selecttype"
  ;;
 esac
 : backup guess
 case "$xxx" in
 'fd_set *') yyy='int *'
 ;;
 'int *') yyy='fd_set *' ;;
 esac

 $cat <<EOM

Checking to see what type of arguments are expected by select().
EOM
 $cat >try.c <<EOCP
#$i_systime I_SYS_TIME
```

```
#$i_sysselct I_SYS_SELECT
#$d_socket HAS_SOCKET
#include <sys/types.h>
#ifdef HAS_SOCKET
#include <sys/socket.h> /* Might include <sys/bsdtypes.h> */
#endif
#ifdef I_SYS_TIME
#include <sys/time.h>
#endif
#ifdef I_SYS_SELECT
#include <sys/select.h>
#endif
int main()
{
 int width;
 Select_fd_set_t readfds;
 Select_fd_set_t writefds;
 Select_fd_set_t exceptfds;
 struct timeval timeout;
 select(width, readfds, writefds, exceptfds, &timeout);
 exit(0);
}
EOCP
 if $cc $ccflags -c -DSelect_fd_set_t="$xxx" try.c >/dev/null 2>&1 ; then
  selecttype="$xxx"
  echo "Your system uses $xxx for the arguments to select." >&4
 elif $cc $ccflags -c -DSelect_fd_set_t="$yyy" try.c >/dev/null 2>&1 ; then
  selecttype="$yyy"
  echo "Your system uses $yyy for the arguments to select." >&4
 else
  rp='What is the type for the 2nd, 3rd, and 4th arguments
 to select?'
  dflt="$xxx"
  . ./myread
  selecttype="$ans"
 fi
 $rm -f try.[co]
 ;;
*) selecttype='int *'
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/selecttype.U
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?RCS: $Id: d_wcstombs.U 1 2006-08-24 12:32:52Z rmanfredi $

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_wcstombs.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_wcstombs: Inlibc
?MAKE: -pick add $@ %<
?S:d_wcstombs:
?S: This variable conditionally defines the HAS_WCSTOMBS symbol, which
?S: indicates to the C program that the wcstombs() routine is available
?S: to convert wide character strings to multibyte strings.
?S:.
?C:HAS_WCSTOMBS:
?C: This symbol, if defined, indicates that the wcstombs
 routine is
?C: available to convert wide character strings to multibyte strings.
?C:.
?H:#$d_wcstombs HAS_WCSTOMBS /**/
?H:.
?LINT:set d_wcstombs
: see if wcstombs exists
set wcstombs d_wcstombs
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_wcstombs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strchr.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strchr.U,v $
```

```
?RCS: Revision 3.0.1.2  1993/10/16  13:49:20  ram
?RCS: patch12: added support for HAS_INDEX
?RCS: patch12: added magic for index() and rindex()
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:05:26  ram
?RCS: patch10: now only defines HAS_STRCHR, no macro remap of index (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:32  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strchr d_index: contains strings Setvar Myread Oldconfig
 Csym
?MAKE: -pick add $@ %<
?S:d_strchr:
?S: This variable conditionally defines HAS_STRCHR if strchr() and
?S: strrchr() are available for string searching.
?S:.
?S:d_index:
?S: This variable conditionally defines HAS_INDEX if index() and
?S: rindex() are available for string searching.
?S:.
?C:HAS_STRCHR:
?C: This symbol is defined to indicate that the strchr()/strrchr()
?C: functions are available for string searching. If not, try the
?C: index()/rindex() pair.
?C:.
?C:HAS_INDEX:
?C: This symbol is defined to indicate that the index()/rindex()
?C: functions are available for string searching.
?C:.
?H:#$d_strchr HAS_STRCHR /**/
?H:#$d_index HAS_INDEX /**/
?H:.
?M:index: HAS_INDEX
?M:#ifndef HAS_INDEX
?M:#ifndef index
?M:#define index strchr
?M:#endif
?M:#endif
?M:.
?M:rindex: HAS_INDEX
?M:#ifndef HAS_INDEX
?M:#ifndef rindex
?M:#define rindex strrchr
?M:#endif
?M:#endif
?M:.
?T:vali
```

```
?LINT:set d_strchr d_index
: index or strchr
echo " "
if set index val -f; eval $csym; $val; then
 if
 set strchr val -f d_strchr; eval $csym; $val; then
  if $contains strchr "$strings" >/dev/null 2>&1 ; then
?X: has index, strchr, and strchr in string header
   val="$define"
   vali="$undef"
   echo "strchr() found." >&4
  else
?X: has index, strchr, and no strchr in string header
   val="$undef"
   vali="$define"
   echo "index() found." >&4
  fi
 else
?X: has only index, no strchr, string header is a moot point
  val="$undef"
  vali="$define"
  echo "index() found." >&4
 fi
else
 if set strchr val -f d_strchr; eval $csym; $val; then
  val="$define"
  vali="$undef"
  echo "strchr() found." >&4
 else
  echo "No index() or strchr() found!" >&4
  val="$undef"
  vali="$undef"
 fi
fi
set d_strchr; eval $setvar
val="$vali"
set d_index; eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strchr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Cygnus Support
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Tom Tromey <tromey@cygnus.com>
?RCS:
?RCS: $Log: src.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:23:54  ram
?RCS: patch61: created
?RCS:
?MAKE:src +rsrc: Options package contains
?MAKE: -pick add $@ %<
?Y:TOP
?S:src (srcdir):
?S: This variable holds the (possibly relative) path of the package source.
?S: It is up to the Makefile to use this variable and set VPATH accordingly
?S: to find the sources remotely.  Use $pkgsrc to have an absolute path.
?S:.
?S:rsrc
 (relsrcdir):
?S: This variable holds a potentially relative path to the package
?S: source.  The contents are correct for the configuration environment,
?S: i.e. there might be an extra .. prepended to get out of the UU dir.
?S: Configure units should use this, not the src variable.
?S:.
: Find the path to the source tree
case "$src" in
") case "$0" in
   */*) src=`echo $0 | sed -e 's%/[^/][^/]*$%%'`
        case "$src" in
  /*) ;;
  .) ;;
        *) src=`cd ../$src && pwd` ;;
  esac
        ;;
   *)   src='.';;
   esac;;
esac
case "$src" in
") src=/
 rsrc=/
 ;;
/*) rsrc="$src";;
*) rsrc="../$src";;
esac
?X:
```

```
?X: Now check whether we have found the right source tree (i.e. the one for the
?X: package we're about to configure). The original unit from Tom Tromey forced
?X: the user to pick a unique file from his distribution, and we were merely
?X: checking the existence of that file. I prefer to rely on Configure (which
?X: we know *is* present since this unit is
 part of it!) and look for the
?X: definition of the package variable, making sure it's the same as ours.
?X: If it matches, we know we found the right source tree. -- RAM, 15/03/96
?X:
if test -f $rsrc/Configure && \
 $contains "^package='$package'\$" $rsrc/Configure >/dev/null 2>&1
then
  : found it, so we are ok.
else
?X: Otherwise try "." and up to 4 parent directories...
?X: Note that we prepend a ".." to get out of the configuration environment.
 rsrc=''
 for src in . .. ../.. ../../.. ../../../..; do
  if test -f ../$src/Configure && \
   $contains "^package=$package$" ../$src/Configure >/dev/null 2>&1
  then
   rsrc=../$src
   break
  fi
 done
fi
case "$rsrc" in
'')
 cat <<EOM >&4

Sorry, I can't seem to locate the source dir for $package.  Please start
Configure with an explicit path -- i.e. /some/path/Configure.

EOM
 exit 1
 ;;
?X: Don't echo anything if the sources are in . -- they should know already ;-)
?X: In that case, rsrc is ../. since we lookup from within UU
../.) rsrc='..';;
*)
 echo
 " "
 echo "Sources for $package found in \"$src\"." >&4
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/dist/U/src.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ttyname_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_ttyname_r ttyname_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_unistd extern_C
?MAKE: -pick add $@ %<
?S:d_ttyname_r:
?S: This variable conditionally defines the HAS_TTYNAME_R symbol,
?S: which indicates to the C program that the ttyname_r()
?S: routine is available.
?S:.
?S:ttyname_r_proto:
?S: This variable encodes the prototype of ttyname_r.
?S: It is zero if d_ttyname_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_ttyname_r
?S: is defined.
?S:.
?C:HAS_TTYNAME_R:
?C: This symbol, if defined, indicates that the ttyname_r routine
?C: is available to ttyname re-entrantly.
?C:.
?C:TTYNAME_R_PROTO:
?C: This
 symbol encodes the prototype of ttyname_r.
?C: It is zero if d_ttyname_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_ttyname_r
?C: is defined.
?C:.
?H:#$d_ttyname_r HAS_TTYNAME_R /**/
?H:#define TTYNAME_R_PROTO $ttyname_r_proto /**/
?H:.
?T:try hdrs d_ttyname_r_proto
: see if ttyname_r exists
set ttyname_r d_ttyname_r
eval $inlibc
case "$d_ttyname_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_unistd unistd.h"
 case "$d_ttyname_r_proto:$usethreads" in
 ":define") d_ttyname_r_proto=define
```

```
 set d_ttyname_r_proto ttyname_r $hdrs
 eval $hasproto ;;
*) ;;
esac
case "$d_ttyname_r_proto" in
define)
case "$ttyname_r_proto" in
"|0) try='int ttyname_r(int, char*, size_t);'
./protochk "$extern_C $try" $hdrs && ttyname_r_proto=I_IBW ;;
esac
case "$ttyname_r_proto" in
"|0) try='int ttyname_r(int, char*, int);'
./protochk "$extern_C $try" $hdrs && ttyname_r_proto=I_IBI ;;
esac
case "$ttyname_r_proto"
in
"|0) try='char* ttyname_r(int, char*, int);'
./protochk "$extern_C $try" $hdrs && ttyname_r_proto=B_IBI ;;
esac
case "$ttyname_r_proto" in
"|0) d_ttyname_r=undef
 ttyname_r_proto=0
 echo "Disabling ttyname_r, cannot determine prototype." >&4 ;;
* ) case "$ttyname_r_proto" in
 REENTRANT_PROTO*) ;;
 *) ttyname_r_proto="REENTRANT_PROTO_$ttyname_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "ttyname_r has no prototype, not using it." >&4 ;;
 esac
 d_ttyname_r=undef
 ttyname_r_proto=0
 ;;
esac
;;
*) ttyname_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_ttyname_r.U
No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fdclose: Inlibc
?MAKE: -pick add $@ %<
?S:d_fdclose:
?S: This variable conditionally defines the HAS_FDCLOSE symbol, which
?S: indicates to the C program that the fdclose() routine is available.
?S:.
?C:HAS_FDCLOSE:
?C: This symbol, if defined, indicates that the fdclose routine is
?C: available to free a FILE structure without closing the underlying
?C: file descriptor.  This function appeared in FreeBSD 10.2.
?C:.
?H:#$d_fdclose HAS_FDCLOSE  /**/
?H:.
?LINT:set d_fdclose
: see if fdclose exists
set fdclose d_fdclose
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fdclose.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sethent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_sethent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sethent: Inlibc
?MAKE: -pick add $@ %<
?S:d_sethent:
?S: This variable conditionally defines HAS_SETHOSTENT if sethostent() is
?S: available.
?S:.
?C:HAS_SETHOSTENT:
?C: This symbol, if defined, indicates that the sethostent() routine is
?C: available.
```

```
?C:.
?H:#$d_sethent HAS_SETHOSTENT  /**/
?H:.
?LINT:set d_sethent
: see if sethostent exists
set
 sethostent d_sethent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_sethent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fpclass: Inlibc
?MAKE: -pick add $@ %<
?S:d_fpclass:
?S: This variable conditionally defines the HAS_FPCLASS symbol, which
?S: indicates to the C program that the fpclass() routine is available.
?S:.
?C:HAS_FPCLASS:
?C: This symbol, if defined, indicates that the fpclass routine is
?C: available to classify doubles.  Available for example in Solaris/SVR4.
?C: The returned values are defined in <ieeefp.h> and are:
?C:
?C: FP_SNAN  signaling NaN
?C: FP_QNAN  quiet NaN
?C: FP_NINF  negative infinity
?C: FP_PINF  positive infinity
?C: FP_NDENORM negative denormalized non-zero
?C: FP_PDENORM positive denormalized non-zero
?C: FP_NZERO negative zero
?C: FP_PZERO positive zero
?C: FP_NNORM negative normalized
 non-zero
?C: FP_PNORM positive normalized non-zero
?C:.
?H:#$d_fpclass HAS_FPCLASS  /**/
?H:.
?LINT:set d_fpclass
: see if fpclass exists
```

```
set fpclass d_fpclass
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fpclass.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: instubperl.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:installusrbinperl: installbin cat bin Myread Setvar test Devel
?MAKE: -pick add $@ %<
?LINT:set installusrbinperl
?Y:TOP
?S:installusrbinperl:
?S: This variable tells whether Perl should be installed also as
?S: /usr/bin/perl in addition to
?S: $installbin/perl
?S:.
?C:INSTALL_USR_BIN_PERL:
?C: This symbol, if defined, indicates that Perl is to be installed
?C: also as /usr/bin/perl.
?C:.
?H:#$installusrbinperl INSTALL_USR_BIN_PERL /**/
?H:.
: determine
 whether to install perl also as /usr/bin/perl

echo " "
if $test -d /usr/bin -a "X$installbin" != X/usr/bin; then
 $cat <<EOM
Many scripts expect perl to be installed as /usr/bin/perl.

If you want to, I can install the perl you are about to compile
as /usr/bin/perl (in addition to $bin/perl).
EOM
 if test -f /usr/bin/perl; then
    $cat <<EOM

However, please note that because you already have a /usr/bin/perl,
```

```
overwriting that with a new Perl would very probably cause problems.
Therefore I'm assuming you don't want to do that (unless you insist).

EOM
    case "$installusrbinperl" in
    "$define"|[yY]*) dflt='y';;
    *)   dflt='n';;
    esac
 else
    $cat <<EOM

Since you don't have a /usr/bin/perl I'm assuming creating one is okay.

EOM
    case "$installusrbinperl" in
    "$undef"|[nN]*) dflt='n';;
    *)   dflt='y';;
    esac
 fi
 rp="Do you want to install perl as /usr/bin/perl?"
 . ./myread
 case "$ans" in
 [yY]*) val="$define";;
 *) val="$undef" ;;
 esac
else
 val="$undef"
fi
set
 installusrbinperl
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/instubperl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_stdlib.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_stdlib.U,v $
```

```
?RCS: Revision 3.0  1993/08/18  12:08:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_stdlib: Nothing
?MAKE: -pick add $@ %<
?S:i_stdlib:
?S: This variable unconditionally defines the I_STDLIB symbol.
?S:.
?C:I_STDLIB:
?C: This symbol is always defined, indicating that <stdlib.h> exists
?C: and should be included.
?C:.
?H:#define I_STDLIB  /**/
?H:.
: stub, used only to satisfy other units
i_stdlib='define'
```

Found in
 path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_stdlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_telldirproto: Hasproto i_systypes i_dirent
?MAKE: -pick add $@ %<
?S:d_telldirproto:
?S: This variable conditionally defines the HAS_TELLDIR_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the telldir() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_TELLDIR_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the telldir() function.  Otherwise, it is up
?C: to the program to supply one.  A good guess
 is
?C:  extern long telldir(DIR*);
?C:.
```

```
?H:#$d_telldirproto HAS_TELLDIR_PROTO /**/
?H:.
?LINT:set d_telldirproto
: see if prototype for telldir is available
echo " "
set d_telldirproto telldir $i_systypes sys/types.h $i_dirent dirent.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_telldirproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: models.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: models.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:13:17  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:02:39  ram
?RCS: patch6: added default for large
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:models split small medium large huge: test cat Myread sysman Oldconfig \
 Loc contains rm
?MAKE: -pick add $@ %<
?S:models:
?S: This variable contains
 the list of memory models supported by this
?S: system.  Possible component values are none, split, unsplit, small,
?S: medium, large, and huge.  The component values are space separated.
?S:.
?S:split:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program that will run in separate I and D space, for those
?S: machines that support separation of instruction and data space.  It is
?S: up to the Makefile to use this.
?S:.
```

```
?S:small:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program running with a small memory model.  It is up to
?S: the Makefile to use this.
?S:.
?S:medium:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program running with a medium memory model.  If the
?S: medium model is not supported, contains the flag to produce large
?S: model programs.  It is up to the Makefile to use this.
?S:.
?S:large:
?S: This variable contains a flag
 which will tell the C compiler and loader
?S: to produce a program running with a large memory model.  It is up to
?S: the Makefile to use this.
?S:.
?S:huge:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program running with a huge memory model.  If the
?S: huge model is not supported, contains the flag to produce large
?S: model programs.  It is up to the Makefile to use this.
?S:.
?T:unsplit tans modelcc
?F:!pdp11
?D:large=''
?LINT:extern cc
: see what memory models we can support
case "$models" in
'')
?X: We may not use Cppsym or we get a circular dependency through cc.
?X: But this should work regardless of which cc we eventually use.
 $cat >pdp11.c <<'EOP'
int main() {
#ifdef pdp11
 exit(0);
#else
 exit(1);
#endif
}
EOP
?X: Run cc in a subshell in case they don't have a 'cc' command.
?X: Presumably they do have gcc or something.
 case "$cc" in
 '') modelcc="$cc" ;;
 *) modelcc="cc" ;;
 esac
 ( $modelcc -o pdp11 pdp11.c ) >/dev/null 2>&1
```

```
 if
 $test -f pdp11 && ./pdp11 2>/dev/null; then
  dflt='unsplit split'
 else
  tans=`./loc . X /lib/small /lib/large /usr/lib/small /usr/lib/large /lib/medium /usr/lib/medium /lib/huge`
  case "$tans" in
  X) dflt='none';;
  *) if $test -d /lib/small || $test -d /usr/lib/small; then
    dflt='small'
   else
    dflt=''
   fi
   if $test -d /lib/medium || $test -d /usr/lib/medium; then
    dflt="$dflt medium"
   fi
   if $test -d /lib/large || $test -d /usr/lib/large; then
    dflt="$dflt large"
   fi
   if $test -d /lib/huge || $test -d /usr/lib/huge; then
    dflt="$dflt huge"
   fi
  esac
 fi;;
*) dflt="$models";;
esac
$cat <<EOM

Some systems have different model sizes.  On most systems they are called
small, medium, large, and huge.  On the PDP11 they are called unsplit and
split.  If your system doesn't support different memory models, say "none".
If you wish to force everything to one memory model, say "none" here and
put the appropriate flags later when it asks you for other
 cc and ld flags.
Venix systems may wish to put "none" and let the compiler figure things out.
(In the following question multiple model names should be space separated.)

The default for most systems is "none".

EOM
rp="Which memory models are supported?"
. ./myread
models="$ans"

case "$models" in
none)
 small=''
 medium=''
 large=''
```

```
 huge=''
 unsplit=''
 split=''
 ;;
*split)
 case "$split" in
 '') if $contains '\-i' $sysman/ld.1 >/dev/null 2>&1 || \
    $contains '\-i' $sysman/cc.1 >/dev/null 2>&1; then
   dflt='-i'
  else
   dflt='none'
  fi;;
 *) dflt="$split";;
 esac
 rp="What flag indicates separate I and D space?"
 . ./myread
 tans="$ans"
 case "$tans" in
 none) tans='';;
 esac
 split="$tans"
 unsplit='';;
*large*|*small*|*medium*|*huge*)
 case "$models" in
 *large*)
  case "$large" in
  '') dflt='-Ml';;
  *) dflt="$large";;
  esac
 rp="What flag indicates large model?"
 . ./myread
 tans="$ans"
 case "$tans" in
 none) tans='';
 esac
 large="$tans";;
 *) large='';;
 esac
 case "$models"
 in
 *huge*) case "$huge" in
  '') dflt='-Mh';;
  *) dflt="$huge";;
  esac
  rp="What flag indicates huge model?"
  . ./myread
  tans="$ans"
  case "$tans" in
```

```
 none) tans='';
 esac
 huge="$tans";;
*) huge="$large";;
esac
case "$models" in
*medium*) case "$medium" in
 '') dflt='-Mm';;
 *) dflt="$medium";;
 esac
 rp="What flag indicates medium model?"
 . ./myread
 tans="$ans"
 case "$tans" in
 none) tans='';
 esac
 medium="$tans";;
*) medium="$large";;
esac
case "$models" in
*small*) case "$small" in
 '') dflt='none';;
 *) dflt="$small";;
 esac
 rp="What flag indicates small model?"
 . ./myread
 tans="$ans"
 case "$tans" in
 none) tans='';
 esac
 small="$tans";;
*) small='';;
esac
;;
*)
 echo "Unrecognized memory models--you may have to edit Makefile.SH" >&4
 ;;
esac
$rm -f pdp11.* pdp11
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/models.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2009 H.Merijn Brand
```

```
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_inetpton: Inlibc
?MAKE: -pick add $@ %<
?S:d_inetpton:
?S: This variable conditionally defines the HAS_INETPTON symbol,
?S: which indicates to the C program that the inet_pton() function
?S: is available.
?S:.
?C:HAS_INETPTON:
?C: This symbol, if defined, indicates that the inet_pton() function
?C: is available to parse IPv4 and IPv6 strings.
?C:.
?H:#$d_inetpton HAS_INETPTON  /**/
?H:.
?LINT:set d_inetpton
: see if inet_pton exists
set inet_pton d_inetpton
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_inetpton.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getprotoent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getprotoent_r getprotoent_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getprotoent_r:
?S: This variable conditionally defines the HAS_GETPROTOENT_R symbol,
?S: which indicates to the C program that the getprotoent_r()
?S: routine is available.
?S:.
?S:getprotoent_r_proto:
?S: This variable encodes the prototype of getprotoent_r.
?S: It is zero if d_getprotoent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getprotoent_r
?S: is defined.
```

```
?S:.
?C:HAS_GETPROTOENT_R:
?C: This symbol, if defined, indicates that the getprotoent_r
 routine
?C: is available to getprotoent re-entrantly.
?C:.
?C:GETPROTOENT_R_PROTO:
?C: This symbol encodes the prototype of getprotoent_r.
?C: It is zero if d_getprotoent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getprotoent_r
?C: is defined.
?C:.
?H:#$d_getprotoent_r HAS_GETPROTOENT_R /**/
?H:#define GETPROTOENT_R_PROTO $getprotoent_r_proto /**/
?H:.
?T:try hdrs d_getprotoent_r_proto
: see if getprotoent_r exists
set getprotoent_r d_getprotoent_r
eval $inlibc
case "$d_getprotoent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getprotoent_r_proto:$usethreads" in
 ":define") d_getprotoent_r_proto=define
  set d_getprotoent_r_proto getprotoent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getprotoent_r_proto" in
 define)
 case "$getprotoent_r_proto" in
 "|0) try='int getprotoent_r(struct protoent*, char*, size_t, struct protoent**);'
 ./protochk "$extern_C $try" $hdrs && getprotoent_r_proto=I_SBWR
 ;;
 esac
 case "$getprotoent_r_proto" in
 "|0) try='int getprotoent_r(struct protoent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getprotoent_r_proto=I_SBI ;;
 esac
 case "$getprotoent_r_proto" in
 "|0) try='struct protoent* getprotoent_r(struct protoent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getprotoent_r_proto=S_SBI ;;
 esac
 case "$getprotoent_r_proto" in
 "|0) try='int getprotoent_r(struct protoent*, struct protoent_data*);'
 ./protochk "$extern_C $try" $hdrs && getprotoent_r_proto=I_SD ;;
 esac
 case "$getprotoent_r_proto" in
```

```
"|0) d_getprotoent_r=undef
 getprotoent_r_proto=0
 echo "Disabling getprotoent_r, cannot determine prototype." >&4 ;;
* ) case "$getprotoent_r_proto" in
 REENTRANT_PROTO*) ;;
 *) getprotoent_r_proto="REENTRANT_PROTO_$getprotoent_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "getprotoent_r has no prototype, not using it." >&4 ;;
 esac
 d_getprotoent_r=undef
 getprotoent_r_proto=0
 ;;
esac
;;
*) getprotoent_r_proto=0
 ;;
esac
```

Found
 in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getprotoent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2005-2007 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_libm_lib_version: Compile cat run rm_try
?MAKE: -pick add $@ %<
?S:d_libm_lib_version:
?S: This variable conditionally defines the LIBM_LIB_VERSION symbol,
?S: which indicates to the C program that math.h defines _LIB_VERSION
?S: being available in libm
?S:.
?C:LIBM_LIB_VERSION:
?C: This symbol, if defined, indicates that libm exports _LIB_VERSION
?C: and that math.h defines the enum to manipulate it.
?C:.
?H:#$d_libm_lib_version LIBM_LIB_VERSION  /**/
?H:.
?T:foo
?F:!try
```

```
: check to see if math.h defines _LIB_VERSION
d_libm_lib_version="$undef"
echo " "
echo "Checking to see if your libm supports _LIB_VERSION..." >&4
$cat >try.c <<EOCP
#include <unistd.h>
#include <math.h>
int main (int argc, char *argv[])
{
    printf ("%d\n", _LIB_VERSION);
   return (0);
   } /* main */
EOCP
set try
if eval $compile; then
   foo=`$run ./try`
   echo "Yes, it does ($foo)" >&4
   d_libm_lib_version="$define"
else
   echo "No, it does not (probably harmless)" >&4
   fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_libm_lib_version.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: html3dir.U,v $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: html3dir.U,v $
?RCS:
?MAKE:html3dir html3direxp installhtml3dir: cat sed Loc Myread \
 spackage test Getfile Setprefixvar Prefixit Prefixup html1dir
?MAKE: -pick add $@ %<
?Y:TOP
?D:html3dir="
?S:html3dir:
?S: This variable contains the name of the directory in which html
?S: source pages are to be put.  This directory is for pages
```

```
?S: that describe libraries or modules.  It is intended to
?S: correspond roughly to section 3 of the Unix manuals.
?S:.
?D:html3direxp=''
?S:html3direxp:
?S: This variable
 is the same as the html3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installhtml3dir=''
?S:installhtml3dir:
?S: This variable is really the same as html3direxp, unless you are
?S: using a different installprefix.  For extra portability, you
?S: should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set html3direxp
?LINT:set installhtml3dir
: determine where html pages for libraries and modules go
set html3dir html3dir none
eval $prefixit
$cat <<EOM

If you wish to install html files for modules associated with $spackage,
indicate the appropriate directory here.  To skip installing html files,
answer "none".
EOM
: There is no obvious default.  If they have specified html1dir, then
: try to key off that, possibly changing .../html1 into .../html3.
case "$html3dir" in
'') html3dir=`echo "$html1dir" | $sed 's/1$/3$/'` ;;
*) dflt=$html3dir ;;
esac
fn=dn+~
rp="Directory for the $spackage module
 html pages?"
. ./getfile
prefixvar=html3dir
. ./setprefixvar
: Use ' ' for none so value is preserved next time through Configure
$test X"$html3dir" = "X" && html3dir=' '
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/html3dir.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: contains.U 1 2006-08-24 12:32:52Z rmanfredi $

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: contains.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:contains: Nothing
?MAKE: -pick add $@ %<
?S:contains:
?S: This variable holds the command to do a grep with a proper return
?S: status.  On most sane systems it is simply "grep".  On insane systems
?S: it is a grep followed by a cat followed by a test.  This variable
?S: is primarily for the use of other Configure units.
?S:.
: Some
 greps do not return status, grrr.
echo "grimblepritz" >grimble
if grep blurfldyick grimble >/dev/null 2>&1 ; then
 contains=contains
elif grep grimblepritz grimble >/dev/null 2>&1 ; then
 contains=grep
else
 contains=contains
fi
rm -f grimble
: the following should work in any shell
case "$contains" in
contains*)
 echo " "
 echo "AGH!  Grep doesn't return a status.  Attempting remedial action."
 cat >contains <<'EOSS'
grep "$1" "$2" >.greptmp && cat .greptmp && test -s .greptmp
EOSS
chmod +x contains
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/contains.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_readdir64_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_readdir64_r readdir64_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_dirent extern_C
?MAKE: -pick add $@ %<
?S:d_readdir64_r:
?S: This variable conditionally defines the HAS_READDIR64_R symbol,
?S: which indicates to the C program that the readdir64_r()
?S: routine is available.
?S:.
?S:readdir64_r_proto:
?S: This variable encodes the prototype of readdir64_r.
?S: It is zero if d_readdir64_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_readdir64_r
?S: is defined.
?S:.
?C:HAS_READDIR64_R:
?C: This symbol, if defined, indicates that the readdir64_r routine
?C: is
 available to readdir64 re-entrantly.
?C:.
?C:READDIR64_R_PROTO:
?C: This symbol encodes the prototype of readdir64_r.
?C: It is zero if d_readdir64_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_readdir64_r
?C: is defined.
?C:.
?H:#$d_readdir64_r HAS_READDIR64_R /**/
?H:#define READDIR64_R_PROTO $readdir64_r_proto /**/
?H:.
?T:try hdrs d_readdir64_r_proto
: see if readdir64_r exists
set readdir64_r d_readdir64_r
eval $inlibc
case "$d_readdir64_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_dirent dirent.h"
 case "$d_readdir64_r_proto:$usethreads" in
 ":define") d_readdir64_r_proto=define
  set d_readdir64_r_proto readdir64_r $hdrs
  eval $hasproto ;;
 *) ;;
```

```
 esac
 case "$d_readdir64_r_proto" in
 define)
 case "$readdir64_r_proto" in
 "|0) try='int readdir64_r(DIR*, struct dirent64*, struct dirent64**);'
 ./protochk "$extern_C $try" $hdrs && readdir64_r_proto=I_TSR ;;
 esac
 case "$readdir64_r_proto" in
 "|0) try='int readdir64_r(DIR*,
 struct dirent64*);'
 ./protochk "$extern_C $try" $hdrs && readdir64_r_proto=I_TS ;;
 esac
 case "$readdir64_r_proto" in
 "|0) d_readdir64_r=undef
  readdir64_r_proto=0
  echo "Disabling readdir64_r, cannot determine prototype." >&4 ;;
 * ) case "$readdir64_r_proto" in
  REENTRANT_PROTO*) ;;
  *) readdir64_r_proto="REENTRANT_PROTO_$readdir64_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "readdir64_r has no prototype, not using it." >&4 ;;
  esac
  d_readdir64_r=undef
  readdir64_r_proto=0
  ;;
 esac
 ;;
*) readdir64_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_readdir64_r.U
No license file was found, but licenses were detected in source scan.

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?RCS: of the source tree for dist 3.0.
?RCS:

```
?MAKE:d_snprintf_l d_vsnprintf_l : Inlibc d_snprintf d_vsnprintf
?MAKE: -pick add $@ %<
?S:d_snprintf_l:
?S: This variable conditionally defines the HAS_SNPRINTF_L symbol, which
?S: indicates to the C program that the snprintf_l () library function
?S: is available.
?S:.
?S:d_vsnprintf_l:
?S: This variable conditionally defines the HAS_VSNPRINTF_L symbol, which
?S: indicates to the C program that the vsnprintf_l () library function
?S: is available.
?S:.
?C:HAS_SNPRINTF_L:
?C: This symbol, if defined, indicates that the snprintf_l () library
?C: function
 is available for use.
?C:.
?C:HAS_VSNPRINTF_L:
?C: This symbol, if defined, indicates that the vsnprintf_l () library
?C: function is available for use.
?C:.
?H:#$d_snprintf_l HAS_SNPRINTF_L /**/
?H:#$d_vsnprintf_l HAS_VSNPRINTF_L /**/
?H:.
: see if snprintf_l exists
set snprintf_l d_snprintf_l
eval $inlibc

: see if vsnprintf_l exists
set vsnprintf_l d_vsnprintf_l
eval $inlibc

case "$d_snprintf-$d_vsnprintf-$d_snprintf_l-$d_vsnprintf_l" in
"$define-$define-$define-$define")
   ;;
*) echo "(These require the basic snprintf and vsnprintf to also be available, which they aren't"
 d_snprintf_l="$undef"
 d_vsnprintf_l="$undef"
   ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_snprintf_l.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: man1dir.U,v 3.2 1999/07/08 20:57:21 doughera Exp doughera $
?RCS:
```

```
?RCS: Copyright (c) 1996, 1999 Andy Dougherty
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?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: man1dir.U,v $
?RCS: Revision 3.2  1999/07/08 20:57:21  doughera
?RCS: Used installprefix.
?RCS:
?RCS: Revision 3.1  1999/07/08 20:52:19  doughera
?RCS: Updated for perl5.005_5x
?RCS:
?RCS: Revision 3.0.1.1  1997/02/28  16:10:29  ram
?RCS: patch61: created
?RCS:
?X: This was originally specific to perl5.  Since perl5 has man pages that
?X: go in both man1/ and man3/ directories, we need both man1dir
?X: and
 man3dir.  This unit is basically dist's mansrc.U with
?X: man1 used instead of man everywhere.
?X:
?MAKE:man1dir man1direxp man1ext installman1dir: cat nroff Loc Oldconfig \
 spackage test Getfile Setprefixvar Prefixit Prefixup sysman Myread \
 prefixexp
?MAKE: -pick add $@ %<
?Y:TOP
?D:man1dir=''
?S:man1dir:
?S: This variable contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?D:man1direxp=''
?S:man1direxp:
?S: This variable is the same as the man1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installman1dir=''
?S:installman1dir:
?S: This variable is really the same as man1direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man1direxp only points to the read-only access location.
```

```
 For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:man1ext:
?S: This variable contains the extension that the manual page should
?S: have: one of 'n', 'l', or '1'.  The Makefile must supply the '.'.
?S: See man1dir.
?S:.
?T:lookpath
?LINT:change prefixvar
?LINT:set man1direxp
: determine where manual pages go
set man1dir man1dir none
eval $prefixit
$cat <<EOM

$spackage has manual pages available in source form.
EOM
case "$nroff" in
nroff)
 echo "However, you don't have nroff, so they're probably useless to you."
 case "$man1dir" in
 ") man1dir="none";;
 esac;;
esac
echo "If you don't want the manual sources installed, answer 'none'."
case "$man1dir" in
' ') dflt=none
 ;;
")
 lookpath="$prefixexp/share/man/man1"
 lookpath="$lookpath $prefixexp/man/man1 $prefixexp/man/l_man/man1"
 lookpath="$lookpath $prefixexp/man/p_man/man1"
 lookpath="$lookpath $prefixexp/man/u_man/man1"
 lookpath="$lookpath $prefixexp/man/man.1"
?X: Experience has shown people
 expect man1dir to be under prefix,
?X: so we now always put it there.  Users who want other behavior
?X: can answer interactively or use a command line option.
?X: Does user have System V-style man paths.
 case "$sysman" in
 */?_man*) dflt=`./loc . $prefixexp/l_man/man1 $lookpath` ;;
 *) dflt=`./loc . $prefixexp/man/man1 $lookpath` ;;
 esac
 set dflt
 eval $prefixup
 ;;
*)  dflt="$man1dir"
```

```
 ;;
esac
echo " "
fn=dn+~
rp="Where do the main $spackage manual pages (source) go?"
. ./getfile
if $test "X$man1direxp" != "X$ansexp"; then
 installman1dir=''
fi
prefixvar=man1dir
. ./setprefixvar

case "$man1dir" in
'') man1dir=' '
 installman1dir='';;
esac

: What suffix to use on installed man pages

case "$man1dir" in
' ')
 man1ext='0'
 ;;
*)
 rp="What suffix should be used for the main $spackage man pages?"
 case "$man1ext" in
 '') case "$man1dir" in
  *1)  dflt=1 ;;
  *1p) dflt=1p ;;
  *1pm) dflt=1pm ;;
  *l) dflt=l;;
  *n) dflt=n;;
  *o) dflt=o;;
  *p) dflt=p;;
  *C) dflt=C;;
  *L) dflt=L;;
  *L1)
 dflt=L1;;
  *) dflt=1;;
  esac
  ;;
 *) dflt="$man1ext";;
 esac
 . ./myread
 man1ext="$ans"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/man1dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: patchlevel.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:18:41  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:patchlevel: package baserev test rsrc
?MAKE: -pick add $@ %<
?T:Revision
?S:patchlevel:
?S: The patchlevel level of this package.
?S: The value of patchlevel comes from the patchlevel.h file.
?S:.
: get the patchlevel
echo " "
echo "Getting the current patchlevel..." >&4
if $test -r
 $rsrc/patchlevel.h;then
 patchlevel=`awk \
  '/^#[  ]*define[  ][  ]*PATCHLEVEL/ {print $3}' \
  < $rsrc/patchlevel.h`
else
 patchlevel=0
fi
echo "(You have $package $baserev PL$patchlevel.)"
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/patchlevel.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Nothing.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Nothing.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this file is to supply an empty target for the private
?X: Makefile built by metaconfig to order the units.
?X:
?MAKE:Nothing: Head
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Nothing.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_mbstowcs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_mbstowcs.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:29  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_mbstowcs: Inlibc
?MAKE: -pick add $@ %<
?S:d_mbstowcs:
?S: This variable conditionally defines the HAS_MBSTOWCS symbol, which
?S: indicates to the C program that the mbstowcs() routine is available
?S: to convert a multibyte string into a wide character string.
?S:.
?C:HAS_MBSTOWCS (MBSTOWCS):
?C: This symbol, if defined, indicates
```

```
 that the mbstowcs routine is
?C: available to convert a multibyte string into a wide character string.
?C:.
?H:#$d_mbstowcs HAS_MBSTOWCS  /**/
?H:.
?LINT:set d_mbstowcs
: see if mbstowcs exists
set mbstowcs d_mbstowcs
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_mbstowcs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_eaccess: Inlibc
?MAKE: -pick add $@ %<
?S:d_eaccess:
?S: This variable conditionally defines the HAS_EACCESS symbol, which
?S: indicates to the C program that the eaccess() routine is available.
?S:.
?C:HAS_EACCESS :
?C: This symbol, if defined, indicates that the eaccess routine is
?C: available to do extended access checks.
?C:.
?H:#$d_eaccess HAS_EACCESS  /**/
?H:.
?LINT:set d_eaccess
: see if eaccess exists
set eaccess d_eaccess
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/acl/d_eaccess.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setservent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_setservent_r setservent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_setservent_r:
?S: This variable conditionally defines the HAS_SETSERVENT_R symbol,
?S: which indicates to the C program that the setservent_r()
?S: routine is available.
?S:.
?S:setservent_r_proto:
?S: This variable encodes the prototype of setservent_r.
?S: It is zero if d_setservent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setservent_r
?S: is defined.
?S:.
?C:HAS_SETSERVENT_R:
?C: This symbol, if defined, indicates that the setservent_r routine
?C: is
 available to setservent re-entrantly.
?C:.
?C:SETSERVENT_R_PROTO:
?C: This symbol encodes the prototype of setservent_r.
?C: It is zero if d_setservent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setservent_r
?C: is defined.
?C:.
?H:#$d_setservent_r HAS_SETSERVENT_R /**/
?H:#define SETSERVENT_R_PROTO $setservent_r_proto /**/
?H:.
?T:try hdrs d_setservent_r_proto
: see if setservent_r exists
set setservent_r d_setservent_r
eval $inlibc
case "$d_setservent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_setservent_r_proto:$usethreads" in
 ":define") d_setservent_r_proto=define
  set d_setservent_r_proto setservent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_setservent_r_proto" in
 define)
 case "$setservent_r_proto" in
```

```
"|0) try='int setservent_r(int, struct servent_data*);'
./protochk "$extern_C $try" $hdrs && setservent_r_proto=I_ID ;;
esac
case "$setservent_r_proto" in
"|0) try='void
setservent_r(int, struct servent_data*);'
./protochk "$extern_C $try" $hdrs && setservent_r_proto=V_ID ;;
esac
case "$setservent_r_proto" in
"|0) d_setservent_r=undef
 setservent_r_proto=0
 echo "Disabling setservent_r, cannot determine prototype." >&4 ;;
* ) case "$setservent_r_proto" in
 REENTRANT_PROTO*) ;;
 *) setservent_r_proto="REENTRANT_PROTO_$setservent_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "setservent_r has no prototype, not using it." >&4 ;;
 esac
 d_setservent_r=undef
 setservent_r_proto=0
 ;;
esac
;;
*) setservent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_setservent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: mboxchar.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: mboxchar.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:13:12  ram
```

```
?RCS: patch56: ensure ctrl-A characters are visible in prompt (WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:11:22  ram
?RCS: patch23: added support for MMDF mailboxes (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:mboxchar: cat package shsharp Myread Oldconfig
?MAKE: -pick add $@ %<
?S:mboxchar:
?S: This variable
 contains the eventual value of the MBOXCHAR symbol,
?S: which is how a C program can identify a file as a mailbox.
?S:.
?C:MBOXCHAR:
?C: This symbol contains a character which will match the beginning
?C: of a mailbox file.
?C:.
?H:#define MBOXCHAR '$mboxchar'  /**/
?H:.
?T:CTRLA
?INIT:CTRLA=`echo a | tr a '\001'`
: determine how to determine when a file is a mailbox
case "$mboxchar" in
") dflt=F;;
?X: The following ^A is two-chars to ensure it will print out -- WED
"$CTRLA") dflt='^A';;
*)  dflt="$mboxchar";;
esac
$cat <<EOM

In saving articles, $package wants to differentiate between saving to
mailbox format files and normal files.  It does this by examining the
first character of the file in question.  On most systems the first line
starts with "From ...", so the first character is an F.  Other systems
use magic cookies like control codes between articles, so one of those
would be first.  For example, MMDF messages are separated with lines of
four control-A's (you may specify one
 as ^A, i.e. caret A).

EOM
rp="What's the first character of a mailbox file?"
. ./myread
mboxchar="$ans"
case "$mboxchar" in
'F') ;;
"$CTRLA") ;;
```

```
'^A'|'^a') mboxchar="$CTRLA";;
*)  cat <<'EOM'

You will need to edit the shell script mbox.saver to properly append an
article to a mailbox.  The arguments to the script are documented in
EOM
 case "$shsharp" in
 false) echo "comments in mbox.saver.std.";;
 true) echo "comments in the shell script itself.";;
 esac
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/mboxchar.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2015 Jarkko Hietaniemi, H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:longdblinfbytes longdblnanbytes doubleinfbytes doublenanbytes: Inlibc \
 cat Compile run rm_try Setvar echo d_longdbl \
 doublekind doublesize longdblkind longdblsize
?MAKE: -pick add $@ %<
?S:longdblinfbytes:
?S: This variable contains comma-separated list of hexadecimal bytes
?S: for the long double precision infinity.
?S:.
?S:longdblnanbytes:
?S: This variable contains comma-separated list of hexadecimal bytes
?S: for the long double precision not-a-number.
?S:.
?S:doubleinfbytes:
?S: This variable contains comma-separated list of hexadecimal bytes
?S: for the double precision infinity.
?S:.
?S:doublenanbytes:
?S: This variable contains comma-separated list of hexadecimal bytes
?S: for
 the double precision not-a-number.
?S:.
?C:DOUBLEINFBYTES:
?C: This symbol, if defined, is a comma-separated list of
?C: hexadecimal bytes for the double precision infinity.
```

```
?C:.
?C:DOUBLENANBYTES:
?C: This symbol, if defined, is a comma-separated list of
?C: hexadecimal bytes (0xHH) for the double precision not-a-number.
?C:.
?C:LONGDBLINFBYTES:
?C: This symbol, if defined, is a comma-separated list of
?C: hexadecimal bytes for the long double precision infinity.
?C:.
?C:LONGDBLNANBYTES:
?C: This symbol, if defined, is a comma-separated list of
?C: hexadecimal bytes (0xHH) for the long double precision not-a-number.
?C:.
?H:#define DOUBLEINFBYTES  $doubleinfbytes  /**/
?H:#define DOUBLENANBYTES  $doublenanbytes  /**/
?H:#define LONGDBLINFBYTES $longdblinfbytes  /**/
?H:#define LONGDBLNANBYTES $longdblnanbytes  /**/
?H:.
?F:!try
: Check what kind of inf/nan your system has
$echo "Checking the kind of infinities and nans you have..." >&4
$echo "(The following tests may crash.  That's
 okay.)" >&4
$cat >try.c <<EOP
#define DOUBLESIZE $doublesize
#$d_longdbl HAS_LONG_DOUBLE
#ifdef HAS_LONG_DOUBLE
#define LONG_DOUBLESIZE $longdblsize
#define LONG_DOUBLEKIND $longdblkind
#endif
#include <math.h>
#include <string.h>
#include <stdio.h>
/* Note that whether the sign bit is on or off
* for NaN depends on the CPU/FPU, and possibly
* can be affected by the build toolchain.
*
* For example for older MIPS and HP-PA 2.0 the quiet NaN is:
* 0x7f, 0xf7, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff
* 0x7f, 0xf4, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00
* (respectively) as opposed to the more usual
* 0x7f, 0xf8, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00
*
* Pre-IEEE-754 floating point format do not even have inf/nan support
* at all.  They might have a "max" value (DBL_MAX), which may be deadly
* to even mention, causing immediate SIGFPE or equivalent: this is
* the case with VAX floating point, for example.
*/
```

```
static void bytes(void *v, unsigned int n) {
 unsigned char *p = (unsigned
 char *)v;
 int i;
 for (i = 0; i < n; i++) {
   printf("0x%02x%s", p[i], i < n - 1 ? ", " : "\n");
 }
}
int main(int argc, char *argv[]) {
  /* We cannot use 1.0/0.0 and 0.0/0.0 (with L suffixes for long double)
   * because some compilers are 'smart' and not only warn but refuse to
   * compile such 'illegal' values. */
  double dinf = exp(1e9);
  double dnan = sqrt(-1.0);
#ifdef HAS_LONG_DOUBLE
  long double ldinf = (long double)exp(1e9);
  long double ldnan = (long double)sqrt(-1.0);
# if LONG_DOUBLEKIND == 3 || LONG_DOUBLEKIND == 4
/* the 80-bit long doubles might have garbage in their excess bytes */
   memset((char *)&ldinf + 10, '\0', LONG_DOUBLESIZE - 10);
   memset((char *)&ldnan + 10, '\0', LONG_DOUBLESIZE - 10);
# endif
 if (argc == 2) {
   switch (argv[1][0]) {
   case '1': bytes(&dinf, sizeof(dinf)); break;
   case '2': bytes(&dnan, sizeof(dnan)); break;
   case '3': bytes(&ldinf, sizeof(ldinf)); break;
   case '4': bytes(&ldnan, sizeof(ldnan)); break;
#endif
    }
 }
 return 0;
}
EOP
set try
if eval $compile; then
   doubleinfbytes=`$run ./try 1`
   doublenanbytes=`$run ./try 2`
   case "$d_longdbl" in
   $define)
     longdblinfbytes=`$run ./try 3`
     longdblnanbytes=`$run ./try 4`
     ;;
   esac
else
   # Defaults in case the above test program failed.
   case "$doublekind" in
   1) # IEEE 754 32-bit LE
```

```
    doubleinfbytes='0x00, 0x00, 0xf0, 0x7f'
    doublenanbytes='0x00, 0x00, 0xf8, 0x7f'
    ;;
  2) # IEEE 754 32-bit BE
    doubleinfbytes='0x7f, 0xf0, 0x00, 0x00'
    doublenanbytes='0x7f, 0xf8, 0x00, 0x00'
    ;;
  3) # IEEE 754 64-bit LE
    doubleinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf0, 0x7f'
    doublenanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf8, 0x7f'
    ;;
  4) # IEEE 754 64-bit BE
    doubleinfbytes='0x7f, 0xf0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00'
    doublenanbytes='0x7f, 0xf8, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00'
    ;;
  5) # IEEE 754 128-bit LE
     doubleinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf0,
0x7f'
    doublenanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf8,
0x7f'
    ;;
  6) # IEEE 754 128-bit BE
    doubleinfbytes='0x7f, 0xf0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
    doublenanbytes='0x7f, 0xf8, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
    ;;
  7) # IEEE 754 64-bit mixed: 32-bit LEs in BE
    doubleinfbytes='0x00, 0x00, 0xf0, 0x7f, 0x00, 0x00, 0x00, 0x00'
    doublenanbytes='0x00, 0x00, 0xf8, 0x7f, 0x00, 0x00, 0x00, 0x00'
    ;;
  8) # IEEE 754 64-bit mixed: 32-bit BEs in LE
    doubleinfbytes='0x00, 0x00, 0x00, 0x00, 0x7f, 0xf0, 0x00, 0x00'
    doublenanbytes='0x00, 0x00, 0x00, 0x00, 0x7f, 0xf8, 0x00, 0x00'
    ;;
  9|10|11|12|13|14) # VAX/Cray/IBM floating point formats, no inf/nan.
     doubleinfbytes=$undef
    doublenanbytes=$undef
    ;;
  *) # No idea.
    doubleinfbytes=$undef
    doublenanbytes=$undef
    ;;
  esac
  case "$longdblkind" in
  1) # IEEE 754 128-bit LE
    longdblinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xff,
0x7f'
```

```
    longdblnanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x80, 0xff,
0x7f'
    ;;
  2) # IEEE 754 128-bit BE
    longdblinfbytes='0x7f, 0xff, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
    longdblnanbytes='0x7f, 0xff, 0x80, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
    ;;
  3) # IEEE 754 80-bit LE, 12 or 16 bytes (x86)
    case "$longdblsize" in
    12) # x86 32-bit (96 bits, or 4 x 32, or 12 x 8)
      longdblinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x80, 0xff, 0x7f, 0x00, 0x00'
      longdblnanbytes='0x00,
 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xc0, 0xff, 0x7f, 0x00, 0x00'
      ;;
    16) # x86_64
      longdblinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x80, 0xff, 0x7f, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
      longdblnanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xc0, 0xff, 0x7f, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
      ;;
    *)  # No idea.
      longdblinfbytes=$undef
      longdblnanbytes=$undef
    ;;
    esac
    ;;
  4) # IEEE 754 80-bit BE, 12 or 16 bytes
    case "$longdblsize" in
    12) # 32-bit system
      longdblinfbytes='0x7f, 0xff, 0x80, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00'
      longdblnanbytes='0x7f, 0xff, 0xc0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00'
      ;;
    16) # 64-bit system
      longdblinfbytes='0x7f, 0xff, 0x80, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
      longdblnanbytes='0x7f,
 0xff, 0xc0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00'
      ;;
    *)  # No idea.
      longdblinfbytes=$undef
      longdblnanbytes=$undef
    ;;
    esac
    ;;
  5) # 128-bit LE-LE "double double"
    longdblinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf0,
```

```
0x7f'
    longdblnanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf8,
0x7f'
    ;;
  6) # 128-bit BE-BE "double double"
    longdblinfbytes='0x7f, 0xf0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
    longdblnanbytes='0x7f, 0xf8, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
    ;;
  7) # 128-bit LE-BE "double double"
    longdblinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xf0, 0x7f, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
    longdblnanbytes='0x00, 0x00,
 0x00, 0x00, 0x00, 0x00, 0xf8, 0x7f, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00'
    ;;
  8) # 128-bit BE-LE "double double"
    longdblinfbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x7f, 0xf0, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
    longdblnanbytes='0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x7f, 0xf8, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00'
    ;;
  9|10|11|12|13|14) # VAX/Cray/IBM floating point formats, no inf/nan.
    longdblinfbytes=$undef
    longdblnanbytes=$undef
    ;;
  *) # No idea.
    longdblinfbytes=$undef
    longdblnanbytes=$undef
    ;;
  esac
fi
# In case the program crashed the values are empty, turn them undef.
case "$doubleinfbytes" in
") doubleinfbytes=$undef ;;
esac
case "$doublenanbytes" in
") doublenanbytes=$undef ;;
esac
case "$longdblinfbytes" in
") longdblinfbytes=$undef ;;
esac
case "$longdblnanbytes" in
") longdblnanbytes=$undef ;;
esac
$rm_try
```

Found in path(s):

* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/infnan.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setpent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_setpent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setpent: Inlibc
?MAKE: -pick add $@ %<
?S:d_setpent:
?S: This variable conditionally defines HAS_SETPROTOENT if setprotoent() is
?S: available.
?S:.
?C:HAS_SETPROTOENT:
?C: This symbol, if defined, indicates that the setprotoent() routine is
?C: available.
?C:.
?H:#$d_setpent HAS_SETPROTOENT  /**/
?H:.
?LINT:set d_setpent
: see if setprotoent
 exists
set setprotoent d_setpent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_setpent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_tmpnam_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
```

```
?RCS:
?MAKE:d_tmpnam_r tmpnam_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads extern_C
?MAKE: -pick add $@ %<
?S:d_tmpnam_r:
?S: This variable conditionally defines the HAS_TMPNAM_R symbol,
?S: which indicates to the C program that the tmpnam_r()
?S: routine is available.
?S:.
?S:tmpnam_r_proto:
?S: This variable encodes the prototype of tmpnam_r.
?S: It is zero if d_tmpnam_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_tmpnam_r
?S: is defined.
?S:.
?C:HAS_TMPNAM_R:
?C: This symbol, if defined, indicates that the tmpnam_r routine
?C: is available to tmpnam re-entrantly.
?C:.
?C:TMPNAM_R_PROTO:
?C: This
 symbol encodes the prototype of tmpnam_r.
?C: It is zero if d_tmpnam_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_tmpnam_r
?C: is defined.
?C:.
?H:#$d_tmpnam_r HAS_TMPNAM_R /**/
?H:#define TMPNAM_R_PROTO $tmpnam_r_proto /**/
?H:.
?T:try hdrs d_tmpnam_r_proto
: see if tmpnam_r exists
set tmpnam_r d_tmpnam_r
eval $inlibc
case "$d_tmpnam_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h "
 case "$d_tmpnam_r_proto:$usethreads" in
 ":define") d_tmpnam_r_proto=define
  set d_tmpnam_r_proto tmpnam_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_tmpnam_r_proto" in
 define)
 case "$tmpnam_r_proto" in
 "|0) try='char* tmpnam_r(char*);'
 ./protochk "$extern_C $try" $hdrs && tmpnam_r_proto=B_B ;;
 esac
```

```
 case "$tmpnam_r_proto" in
 "|0) d_tmpnam_r=undef
  tmpnam_r_proto=0
  echo "Disabling tmpnam_r, cannot determine prototype." >&4 ;;
 * ) case "$tmpnam_r_proto" in
  REENTRANT_PROTO*) ;;
  *) tmpnam_r_proto="REENTRANT_PROTO_$tmpnam_r_proto"
 ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "tmpnam_r has no prototype, not using it." >&4 ;;
  esac
  d_tmpnam_r=undef
  tmpnam_r_proto=0
  ;;
 esac
 ;;
*) tmpnam_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_tmpnam_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_rename.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_rename.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_rename: Inlibc
?MAKE: -pick add $@ %<
?S:d_rename:
?S: This variable conditionally defines the HAS_RENAME symbol, which
?S: indicates to the C program that the rename() routine is available
```

```
?S: to rename files.
?S:.
?C:HAS_RENAME (RENAME):
?C: This symbol, if defined, indicates that the rename routine is available
?C: to rename files.
  Otherwise you should do the unlink(), link(), unlink()
?C: trick.
?C:.
?H:#$d_rename HAS_RENAME /**/
?H:.
?LINT:set d_rename
: see if rename exists
set rename d_rename
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_rename.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_futimes: Compile cat rm_try run
?MAKE: -pick add $@ %<
?S:d_futimes:
?S: This variable conditionally defines the HAS_FUTIMES symbol, which
?S: indicates to the C program that the futimes() routine is available.
?S:.
?C:HAS_FUTIMES:
?C: This symbol, if defined, indicates that the futimes routine is
?C: available to change file descriptor time stamps with struct timevals.
?C:.
?H:#$d_futimes HAS_FUTIMES  /**/
?H:.
?T:rc
?F:!try
: check for a working futimes
d_futimes="$undef"
echo " "
echo "Checking if you have a working futimes()" >&4
$cat >try.c <<EOCP
#include <stdio.h>
#include <stdlib.h>
```

```
#include <sys/time.h>
#include <errno.h>
#include <fcntl.h>
#include <stdlib.h>

int main ()
{
   int fd,
 rv;
   fd = open ("try.c", O_RDWR);
   if (-1 == fd) exit (1);
   rv = futimes (fd, NULL);
   exit (rv == -1 ? errno : 0);
}
EOCP
set try
if eval $compile; then
   `$run ./try`
   rc=$?
   case "$rc" in
 0)  echo "Yes, you have" >&4
     d_futimes="$define"
     ;;
 *)  echo "No, you have futimes, but it isn't working ($rc) (probably harmless)" >&4
     ;;
   esac
else
   echo "No, it does not (probably harmless)" >&4
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_futimes.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: myhostname.U,v 3.0.1.3 1997/02/28 16:15:55 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: myhostname.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:15:55  ram
```

```
?RCS: patch61: improved hostname lookup by using ypmatch when NIS is used
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:25:43  ram
?RCS: patch36: call ./xenix explicitly instead of relying on PATH
?RCS: patch36: now uses new Tr unit to convert to/from lowercase
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:06:20  ram
?RCS: patch30: now a little more clever for domain name guessing
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:09:18  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:myhostname phostname mydomain: contains sed test Myread Oldconfig \
 Guess Loc awk echo sort uniq +usrinc rm hostcat Tr
?MAKE: -pick add $@ %<
?S:myhostname (hostname):
?S: This variable contains the eventual value of the MYHOSTNAME symbol,
?S: which is the name of the host the program is going to run on.
?S: The domain is not kept with hostname, but must be gotten from mydomain.
?S: The dot comes with mydomain, and need not be supplied by the program.
?S:.
?S:mydomain:
?S: This variable contains the eventual value of the MYDOMAIN symbol,
?S: which is the domain of the host the program is going to run on.
?S: The domain must be appended to myhostname to form a complete host name.
?S: The dot comes with mydomain, and need not be supplied by the program.
?S:.
?S:phostname:
?S: This variable contains the eventual value of the PHOSTNAME symbol,
?S: which is a command that can be fed to popen()
 to get the host name.
?S: The program should probably not presume that the domain is or isn't
?S: there already.
?S:.
?C:MYHOSTNAME (HOSTNAME):
?C: This symbol contains name of the host the program is going to run on.
?C: The domain is not kept with hostname, but must be gotten from MYDOMAIN.
?C: The dot comes with MYDOMAIN, and need not be supplied by the program.
?C: If gethostname() or uname() exist, MYHOSTNAME may be ignored. If MYDOMAIN
?C: is not used, MYHOSTNAME will hold the name derived from PHOSTNAME.
?C:.
?C:MYDOMAIN:
?C: This symbol contains the domain of the host the program is going to
?C: run on.  The domain must be appended to HOSTNAME to form a complete
?C: host name.  The dot comes with MYDOMAIN, and need not be supplied by
?C: the program.  If the host name is derived from PHOSTNAME, the domain
?C: may or may not already be there, and the program should check.
```

```
?C:.
?H:#define MYHOSTNAME "$myhostname"  /**/
?H:#define MYDOMAIN "$mydomain"  /**/
?H:.
?LINT:extern osname
?T:cont
 i tans tmp_re
: now get the host name
echo " "
echo "Figuring out host name..." >&4
case "$myhostname" in
") cont=true
 echo 'Maybe "hostname" will work...'
 if tans=`sh -c hostname 2>&1` ; then
  myhostname=$tans
  phostname=hostname
  cont=""
 fi
 ;;
*) cont="";;
esac
if $test "$cont"; then
 if ./xenix; then
  echo 'Oh, dear.  Maybe "/etc/systemid" is the key...'
  if tans=`cat /etc/systemid 2>&1` ; then
   myhostname=$tans
   phostname='cat /etc/systemid'
   echo "Whadyaknow.  Xenix always was a bit strange..."
   cont=""
  fi
 elif $test -r /etc/systemid; then
  echo "(What is a non-Xenix system doing with /etc/systemid?)"
 fi
fi
if $test "$cont"; then
 echo 'No, maybe "uuname -l" will work...'
 if tans=`sh -c 'uuname -l' 2>&1` ; then
  myhostname=$tans
  phostname='uuname -l'
 else
  echo 'Strange.  Maybe "uname -n" will work...'
  if tans=`sh -c 'uname -n' 2>&1` ; then
   myhostname=$tans
   phostname='uname -n'
  else
   echo 'Oh well, maybe I can mine it out of whoami.h...'
   if
```

```
 tans=`sh -c $contains' sysname $usrinc/whoami.h' 2>&1` ; then
    myhostname=`echo "$tans" | $sed 's/^.*"\(.*\)"/\1/'`
    phostname="sed -n -e ""/sysname/s/^.*\"\\(.*\\)\"/\1/{"" -e p -e q -e '}' <$usrinc/whoami.h"
   else
    case "$myhostname" in
    ") echo "Does this machine have an identity crisis or something?"
     phostname=";;
    *)
     echo "Well, you said $myhostname before..."
     phostname='echo $myhostname';;
    esac
   fi
  fi
 fi
fi
case "$myhostname" in
") myhostname=noname ;;
esac
: you do not want to know about this
set $myhostname
myhostname=$1

: verify guess
if $test "$myhostname" ; then
 dflt=y
 rp='Your host name appears to be "'$myhostname'".' Right?"
 . ./myread
 case "$ans" in
 y*) ;;
 *) myhostname=";;
 esac
fi

: bad guess or no guess
while $test "X$myhostname" = X ; do
 dflt="
 rp="Please type the (one word) name of your host:"
 . ./myread
 myhostname="$ans"
done

: translate upper to lower if necessary
case "$myhostname" in
*[A-Z]*)
 echo
 "(Normalizing case in your host name)"
 myhostname=`echo $myhostname | ./tr '[A-Z]' '[a-z]'`
 ;;
```

```
esac

?X: Do not ask for domain name if this is not used later on. In that
?X: case, the hostname may keep its domain name, but it doesn't matter.
@if MYDOMAIN || mydomain
case "$myhostname" in
*.*)
 dflt=`expr "X$myhostname" : "X[^.]*\(\..*\)"`
 myhostname=`expr "X$myhostname" : "X\([^.]*\)\."`
 echo "(Trimming domain name from host name--host name is now $myhostname)"
 ;;
*) case "$mydomain" in
 ")
?X:
?X: There is currently no way to say we do not want hostcat if mydomain is not
?X: used. One way to achieve that would be to put that code in a mydomain.U
?X: unit. However, we want to stick the sanity checks right after the domain
?X: name computation, or if none is done, right after the hostname computation.
?X:
  {
?X: If we use NIS, try ypmatch.
   test "X$hostcat" = "Xypcat hosts" &&
   ypmatch "$myhostname" hosts 2>/dev/null |\
    $sed -e 's/[  ]*#.*//; s/$/ /' > hosts
 && \
   $test -s hosts
  } || {
?X: Extract only the relevant hosts, reducing file size,
?X: remove comments, insert trailing space for later use.
?X: Test to be sure we *have* a hostcat command.  os390 doesn't.
   test "X$hostcat" != "X" &&
   $hostcat | $sed -n -e "s/[  ]*#.*//; s/\$/ /
     /[  ]$myhostname[ . ]/p" > hosts
  }
  tmp_re="[ . ]"
  if $test -f hosts; then
   $test x`$awk "/[0-9].*[  ]$myhostname$tmp_re/ { sum++ }
        END { print sum }" hosts` = x1 || tmp_re="[  ]"
   dflt=.`$awk "/[0-9].*[  ]$myhostname$tmp_re/ {for(i=2; i<=NF;i++) print \\\$i}" \
    hosts | $sort | $uniq | \
    $sed -n -e "s/$myhostname\.\([-a-zA-Z0-9_.]\)/\1/p"`
   case `$echo X$dflt` in
   X*\ *) echo "(Several hosts in the database matched hostname)"
    dflt=.
    ;;
   X.) echo "(You do not have fully-qualified names in the hosts database)"
    ;;
   esac
```

```
  else
   echo "(I cannot locate a hosts database anywhere)"
   dflt=.
  fi
  case "$dflt" in
  .)
   tans=`./loc resolv.conf X /etc /usr/etc`
   if
 $test -f "$tans"; then
    echo "(Attempting domain name extraction from $tans)"
?X: Look for either a search or a domain directive.
    dflt=.`$sed -n -e 's/ / /g' \
      -e 's/^search  *\([^ ]*\).*/\1/p' $tans \
      -e 1q 2>/dev/null`
    case "$dflt" in
    .) dflt=.`$sed -n -e 's/ / /g' \
         -e 's/^domain  *\([^ ]*\).*/\1/p' $tans \
         -e 1q 2>/dev/null`
     ;;
    esac
   fi
   ;;
  esac
  case "$dflt" in
  .) echo "(No help from resolv.conf either -- attempting clever guess)"
   dflt=.`sh -c domainname 2>/dev/null`
   case "$dflt" in
   ") dflt='.';;
   .nis.*|.yp.*|.main.*) dflt=`echo $dflt | $sed -e 's/^\.[^.]*//'`;;
   esac
   ;;
  esac
  case "$dflt$osname" in
  .os390) echo "(Attempting domain name extraction from //'SYS1.TCPPARMS(TCPDATA)')"
   dflt=.`awk '/^DOMAINORIGIN/ {print $2}' "//'SYS1.TCPPARMS(TCPDATA)'" 2>/dev/null`
   ;;
  esac
  case "$dflt" in
  .) echo "(Lost all hope -- silly guess then)"
   dflt='.nonet'
   ;;
  esac
  $rm -f hosts
  ;;
 *)
 dflt="$mydomain";;
 esac;;
esac
```

```
echo " "
rp="What is your domain name?"
. ./myread
tans="$ans"
case "$ans" in
") ;;
.*) ;;
*) tans=".$tans";;
esac
mydomain="$tans"

: translate upper to lower if necessary
case "$mydomain" in
*[A-Z]*)
 echo "(Normalizing case in your domain name)"
 mydomain=`echo $mydomain | ./tr '[A-Z]' '[a-z]'`
 ;;
esac

@end
: a little sanity check here
case "$phostname" in
") ;;
*)
 case `$phostname | ./tr '[A-Z]' '[a-z]'` in
 $myhostname$mydomain|$myhostname) ;;
 *)
  case "$phostname" in
  sed*)
   echo "(That doesn't agree with your whoami.h file, by the way.)"
   ;;
  *)
   echo "(That doesn't agree with your $phostname command, by the way.)"
   ;;
  esac
 ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/myhostname.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_attribut.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_attribut.U,v $
?RCS: Revision 3.0.1.3  1995/01/30  14:33:45  ram
?RCS: patch49: test C program now includes <stdio.h> (WED)
?RCS:
?RCS: Revision 3.0.1.2  1995/01/11  15:25:47  ram
?RCS: patch45: fixed typo in the d_attribut variable (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:08:55  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_attribute_deprecated d_attribute_format
 d_attribute_malloc \
 d_attribute_nonnull d_attribute_noreturn d_attribute_pure \
 d_attribute_unused d_attribute_warn_unused_result \
 d_printf_format_null d_attribute_always_inline: \
    Myread Oldconfig cat cc ccflags rm Setvar compiler_warning \
        i_stdlib run i_inttypes
?MAKE: -pick add $@ %<
?S:d_attribute_format:
?S: This variable conditionally defines HASATTRIBUTE_FORMAT, which
?S: indicates the C compiler can check for printf-like formats.
?S:.
?S:d_attribute_deprecated:
?S: This variable conditionally defines HASATTRIBUTE_DEPRECATED, which
?S: indicates that GCC can handle the attribute for marking deprecated
?S: APIs
?S:.
?S:d_printf_format_null:
?S: This variable conditionally defines PRINTF_FORMAT_NULL_OK, which
?S: indicates the C compiler allows printf-like formats to be null.
?S:.
?S:d_attribute_malloc:
?S: This variable conditionally defines HASATTRIBUTE_MALLOC, which
?S: indicates the C compiler can understand functions as having
?S: malloc-like semantics.
?S:.
?S:d_attribute_nonnull:
?S: This
```

variable conditionally defines HASATTRIBUTE_NONNULL, which
?S: indicates that the C compiler can know that certain arguments
?S: must not be NULL, and will check accordingly at compile time.
?S:.
?S:d_attribute_noreturn:
?S: This variable conditionally defines HASATTRIBUTE_NORETURN, which
?S: indicates that the C compiler can know that certain functions
?S: are guaranteed never to return.
?S:.
?S:d_attribute_pure:
?S: This variable conditionally defines HASATTRIBUTE_PURE, which
?S: indicates that the C compiler can know that certain functions
?S: are "pure" functions, meaning that they have no side effects, and
?S: only rely on function input and/or global data for their results.
?S:.
?S:d_attribute_unused:
?S: This variable conditionally defines HASATTRIBUTE_UNUSED, which
?S: indicates that the C compiler can know that certain variables
?S: and arguments may not always be used, and to not throw warnings
?S: if they don't get used.
?S:.
?S:d_attribute_warn_unused_result:
?S: This
variable conditionally defines
?S: HASATTRIBUTE_WARN_UNUSED_RESULT, which indicates that the C
?S: compiler can know that certain functions have a return values
?S: that must not be ignored, such as malloc() or open().
?S:.
?S:d_attribute_always_inline:
?S: This variable conditionally defines HASATTRIBUTE_ALWAYS_INLINE,
?S: which indicates that the C compiler can know that certain
?S: functions should always be inlined.
?S:.
?C:HASATTRIBUTE_FORMAT ~ %< (GNUC_ATTRIBUTE_CHECK):
?C: Can we handle GCC attribute for checking printf-style formats
?C:.
?C:PRINTF_FORMAT_NULL_OK:
?C: Allows __printf__ format to be null when checking printf-style
?C:.
?C:HASATTRIBUTE_MALLOC:
?C: Can we handle GCC attribute for malloc-style functions.
?C:.
?C:HASATTRIBUTE_NONNULL:
?C: Can we handle GCC attribute for nonnull function parms.
?C:.
?C:HASATTRIBUTE_NORETURN:
?C: Can we handle GCC attribute for functions that do not return
?C:.

```
?C:HASATTRIBUTE_PURE:
?C: Can we handle
 GCC attribute for pure functions
?C:.
?C:HASATTRIBUTE_UNUSED:
?C: Can we handle GCC attribute for unused variables and arguments
?C:.
?C:HASATTRIBUTE_DEPRECATED:
?C: Can we handle GCC attribute for marking deprecated APIs
?C:.
?C:HASATTRIBUTE_WARN_UNUSED_RESULT ~ %< (HASATTRIBUTE):
?C: Can we handle GCC attribute for warning on unused results
?C:.
?C:HASATTRIBUTE_ALWAYS_INLINE:
?C: Can we handle GCC attribute for functions that should always be
?C: inlined.
?C:.
?H:?%<:#$d_attribute_deprecated HASATTRIBUTE_DEPRECATED /**/
?H:?%<:#$d_attribute_format HASATTRIBUTE_FORMAT /**/
?H:?%<:#$d_printf_format_null PRINTF_FORMAT_NULL_OK /**/
?H:?%<:#$d_attribute_noreturn HASATTRIBUTE_NORETURN /**/
?H:?%<:#$d_attribute_malloc HASATTRIBUTE_MALLOC /**/
?H:?%<:#$d_attribute_nonnull HASATTRIBUTE_NONNULL /**/
?H:?%<:#$d_attribute_pure HASATTRIBUTE_PURE /**/
?H:?%<:#$d_attribute_unused HASATTRIBUTE_UNUSED /**/
?H:?%<:#$d_attribute_warn_unused_result HASATTRIBUTE_WARN_UNUSED_RESULT /**/
?H:?%<:#$d_attribute_always_inline
 HASATTRIBUTE_ALWAYS_INLINE /**/
?H:.
?F:!attrib !attrib.out !attrib.c
?LINT:set d_attribute_deprecated
?LINT:set d_attribute_format
?LINT:set d_printf_format_null
?LINT:set d_attribute_malloc
?LINT:set d_attribute_nonnull
?LINT:set d_attribute_noreturn
?LINT:set d_attribute_pure
?LINT:set d_attribute_unused
?LINT:set d_attribute_warn_unused_result
?LINT:set d_attribute_always_inline
: Look for GCC-style attribute format
case "$d_attribute_format" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((format)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
void my_special_printf(char* pat,...) __attribute__((__format__(__printf__,1,2)));
```

```
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((format))."
  val="$undef"
 else
  echo "Your C compiler supports __attribute__((format))."
  val="$define"
 fi
else
 echo "Your C compiler
 doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_format" ;;
esac
set d_attribute_format
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute format with null format allowed
case "$d_printf_format_null" in
") case "$d_attribute_format" in
   $define)
 echo " "
 echo "Checking whether your compiler allows __printf__ format to be null ..." >&4
$cat >attrib.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_inttypes I_INTTYPES
#ifdef I_INTTYPES
#include <inttypes.h>
#endif
#ifndef INTPTR_MAX
#define intptr_t int
#endif
int null_printf (char* pat,...) __attribute__((__format__(__printf__,1,2)));
int null_printf (char* pat,...) { return (int)(intptr_t)pat; }
int main () { exit(null_printf(NULL)); }
EOCP
 if $cc $ccflags -o attrib attrib.c >attrib.out 2>&1 ; then
     : run the executable in case it produces a run-time warning
     if $run ./attrib >>attrib.out 2>&1; then
  if $compiler_warning attrib.out
```

```
 >/dev/null 2>&1; then
      echo "Your C compiler doesn't allow __printf__ format to be null."
      val="$undef"
  else
      echo "Your C compiler allows __printf__ format to be null."
      val="$define"
  fi
     else
     echo "Your C compiler executable failed with __printf__ format null."
     val="$undef"
 fi
   else
 echo "Your C compiler fails with __printf__ format null."
 val="$undef"
   fi
   ;;
   *)  val="$undef" ;;
   esac
;;
*)  val="$d_printf_format_null" ;;
esac
set d_printf_format_null
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute malloc
case "$d_attribute_malloc" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((malloc)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
char *go_get_some_memory( int how_many_bytes ) __attribute__((malloc));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((malloc))."
  val="$undef"
 else
  echo
 "Your C compiler supports __attribute__((malloc))."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
```

```
*) val="$d_attribute_malloc" ;;
esac
set d_attribute_malloc
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute nonnull
case "$d_attribute_nonnull" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((nonnull(1))) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
void do_something (char *some_pointer,...) __attribute__((nonnull(1)));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((nonnull))."
  val="$undef"
 else
  echo "Your C compiler supports __attribute__((nonnull))."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_nonnull" ;;
esac
set d_attribute_nonnull
eval
 $setvar
$rm -f attrib*

: Look for GCC-style attribute noreturn
case "$d_attribute_noreturn" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((noreturn)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
void fall_over_dead( void ) __attribute__((noreturn));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((noreturn))."
  val="$undef"
```

```
 else
  echo "Your C compiler supports __attribute__((noreturn))."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_noreturn" ;;
esac
set d_attribute_noreturn
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute pure
case "$d_attribute_pure" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((pure)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
int square( int
 n ) __attribute__((pure));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((pure))."
  val="$undef"
 else
  echo "Your C compiler supports __attribute__((pure))."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_pure" ;;
esac
set d_attribute_pure
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute unused
case "$d_attribute_unused" in
")
echo " "
```

```
echo "Checking whether your compiler can handle __attribute__((unused)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
int do_something( int dummy __attribute__((unused)), int n );
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((unused))."
  val="$undef"
 else
  echo "Your C compiler supports __attribute__((unused))."
  val="$define"
 fi
else
 echo
 "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_unused" ;;
esac
set d_attribute_unused
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute deprecated
case "$d_attribute_deprecated" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((deprecated)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
int I_am_deprecated(void) __attribute__((deprecated));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((deprecated))."
  val="$undef"
 else
  echo "Your C compiler supports __attribute__((deprecated))."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_deprecated" ;;
```

```
esac
set d_attribute_deprecated
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute
 warn_unused_result
case "$d_attribute_warn_unused_result" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((warn_unused_result)) ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
int I_will_not_be_ignored(void) __attribute__((warn_unused_result));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((warn_unused_result))."
  val="$undef"
 else
  echo "Your C compiler supports __attribute__((warn_unused_result))."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_warn_unused_result" ;;
esac
set d_attribute_warn_unused_result
eval $setvar
$rm -f attrib*

: Look for GCC-style attribute always_inline
case "$d_attribute_always_inline" in
")
echo " "
echo "Checking whether your compiler can handle __attribute__((always_inline)) ..." >&4
$cat >attrib.c <<'EOCP'
#include
 <stdio.h>
static __inline__ __attribute__((always_inline)) int I_will_always_be_inlined(void);
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $compiler_warning attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support __attribute__((always_inline))."
  val="$undef"
```

```
 else
  echo "Your C compiler supports __attribute__((always_inline))."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
;;
*) val="$d_attribute_always_inline" ;;
esac
set d_attribute_always_inline
eval $setvar
$rm -f attrib*
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_attribut.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: prototype.U,v $
?RCS: Revision 3.0.1.3  1994/05/06  15:11:49  ram
?RCS: patch23: ensure cc flags used when looking for prototype support
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:15:36  ram
?RCS: patch16: prototype handling macros now appear only when needed
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:03:12  ram
?RCS: patch6: defines were referring to non-existent VOID symbol
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:36  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:prototype:
 Myread Oldconfig cat +cc +ccflags rm Setvar
?MAKE: -pick add $@ %<
?S:prototype:
?S: This variable holds the eventual value of CAN_PROTOTYPE, which
```

```
?S: indicates the C compiler can handle funciton prototypes.
?S:.
?C:CAN_PROTOTYPE ~ %<:
?C: If defined, this macro indicates that the C compiler can handle
?C: function prototypes.
?C:.
?C:DOTS:
?C: This macro is used to specify the ... in function prototypes which
?C: have arbitrary additional arguments.
?C:.
?C:NXT_ARG:
?C: This macro is used to separate arguments in the declared argument list.
?C:.
?C:P_FUNC:
?C: This macro is used to declare "private" (static) functions.
?C: It takes three arguments: the function type and name, a parenthesized
?C: traditional (comma separated) argument list, and the declared argument
?C: list (in which arguments are separated with NXT_ARG, and additional
?C: arbitrary arguments are specified with DOTS).  For example:
?C:
?C:  P_FUNC(int foo, (bar, baz), int bar NXT_ARG char *baz[])
?C:.
?C:P_FUNC_VOID:
?C: This
 macro is used to declare "private" (static) functions that have
?C: no arguments.  The macro takes one argument: the function type and name.
?C: For example:
?C:
?C:  P_FUNC_VOID(int subr)
?C:.
?C:V_FUNC:
?C: This macro is used to declare "public" (non-static) functions.
?C: It takes three arguments: the function type and name, a parenthesized
?C: traditional (comma separated) argument list, and the declared argument
?C: list (in which arguments are separated with NXT_ARG, and additional
?C: arbitrary arguments are specified with DOTS).  For example:
?C:
?C:  V_FUNC(int main, (argc, argv), int argc NXT_ARG char *argv[])
?C:.
?C:V_FUNC_VOID:
?C: This macro is used to declare "public" (non-static) functions that have
?C: no arguments.  The macro takes one argument: the function type and name.
?C: For example:
?C:
?C:  V_FUNC_VOID(int fork)
?C:.
?C:_ (P):
?C: This macro is used to declare function parameters for folks who want
```

```
?C: to make declarations with prototypes using a
 different style than
?C: the above macros.  Use double parentheses.  For example:
?C:
?C:  int main _((int argc, char *argv[]));
?C:.
?H:?%<:#$prototype CAN_PROTOTYPE /**/
?H:?%<:#ifdef CAN_PROTOTYPE
?H:?NXT_ARG:#define NXT_ARG ,
?H:?DOTS:#define DOTS , ...
?H:?V_FUNC:#define V_FUNC(name, arglist, args)name(args)
?H:?P_FUNC:#define P_FUNC(name, arglist, args)static name(args)
?H:?V_FUNC_VOID:#define V_FUNC_VOID(name)name(void)
?H:?P_FUNC_VOID:#define P_FUNC_VOID(name)static name(void)
?H:?_:#define _(args) args
?H:?%<:#else
?H:?NXT_ARG:#define NXT_ARG ;
?H:?DOTS:#define DOTS
?H:?V_FUNC:#define V_FUNC(name, arglist, args)name arglist args;
?H:?P_FUNC:#define P_FUNC(name, arglist, args)static name arglist args;
?H:?V_FUNC_VOID:#define V_FUNC_VOID(name)name()
?H:?P_FUNC_VOID:#define P_FUNC_VOID(name)static name()
?H:?_:#define _(args) ()
?H:?%<:#endif
?H:.
?W:%<:NXT_ARG DOTS V_FUNC P_FUNC V_FUNC_VOID P_FUNC_VOID _
?LINT:set prototype
: Cruising for prototypes
echo " "
echo "Checking out
 function prototypes..." >&4
$cat >prototype.c <<'EOCP'
int main(int argc, char *argv[]) {
 exit(0);}
EOCP
if $cc $ccflags -c prototype.c >prototype.out 2>&1 ; then
 echo "Your C compiler appears to support function prototypes."
 val="$define"
else
 echo "Your C compiler doesn't seem to understand function prototypes."
 val="$undef"
fi
set prototype
eval $setvar
$rm -f prototype*
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/dist/U/prototype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_casti32.U,v 3.0.1.3 1995/05/12 12:10:45 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_casti32.U,v $
?RCS: Revision 3.0.1.3  1995/05/12  12:10:45  ram
?RCS: patch54: made sure cc and ccflags are conditional dependencies
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:09:37  ram
?RCS: patch36: declare signal handler correctly (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:06  ram
?RCS: patch32: created by ADO
?RCS:
?X:
?X: Can the compiler cast large floats to
 32-bit integers?
?X:
?MAKE:d_casti32: cat Compile rm_try intsize Setvar test signal_t run i_stdlib
?MAKE: -pick add $@ %<
?S:d_casti32:
?S: This variable conditionally defines CASTI32, which indicates
?S: whether the C compiler can cast large floats to 32-bit ints.
?S:.
?C:CASTI32:
?C: This symbol is defined if the C compiler can cast negative
?C: or large floating point numbers to 32-bit ints.
?C:.
?H:#$d_casti32 CASTI32  /**/
?H:.
?T:xxx yyy
?F:!try
?LINT:set d_casti32
: check for ability to cast large floats to 32-bit ints.
echo " "
echo 'Checking whether your C compiler can cast large floats to int32.' >&4
if $test "$intsize" -ge 4; then
```

```
 xxx=int
else
 xxx=long
fi
$cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <sys/types.h>
#include <signal.h>
$signal_t blech(int s) { exit(3); }
int main()
{
 $xxx i32;
 double f, g;
 int result = 0;
 char str[16];
 signal(SIGFPE, blech);

 /* Don't let compiler optimize the test away.
  Store the number
   in a writable string for gcc to pass to sscanf under HP-UX.
 */
 sprintf(str, "2147483647");
 sscanf(str, "%lf", &f); /* f = (double) 0x7fffffff; */
 g = 10 * f;
 i32  = ($xxx) g;

 /* x86 processors will probably give 0x8000 0000, which is a
   sign change.  We don't want that.  We want to mimic SPARC
   behavior here, which is to preserve the sign and give
   back 0x7fff ffff.
 */
 if (i32 != ($xxx) f)
  result |= 1;
 exit(result);
}
EOCP
set try
if eval $compile_ok; then
 $run ./try 2>/dev/null
 yyy=$?
else
 echo "(I can't seem to compile the test program--assuming it can't)"
 yyy=1
fi
```

```
case "$yyy" in
0) val="$define"
 echo "Yup, it can."
 ;;
*) val="$undef"
 echo "Nope, it can't."
 ;;
esac
set d_casti32
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_casti32.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_utime.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_utime.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_utime: Inhdr
?MAKE: -pick add $@ %<
?S:i_utime:
?S: This variable conditionally defines the I_UTIME symbol, and indicates
?S: whether a C program should include <utime.h>.
?S:.
?C:I_UTIME:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <utime.h>.
?C:.
?H:#$i_utime I_UTIME  /**/
?H:.
?LINT:set i_utime
:
 see if this is an utime system
set utime.h i_utime
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_utime.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getppid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_getppid.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:45  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_getppid: Inlibc
?MAKE: -pick add $@ %<
?S:d_getppid:
?S: This variable conditionally defines the HAS_GETPPID symbol, which
?S: indicates to the C program that the getppid() routine is available
?S: to get the parent process ID.
?S:.
?C:HAS_GETPPID :
?C: This symbol,
 if defined, indicates that the getppid routine is
?C: available to get the parent process ID.
?C:.
?H:#$d_getppid HAS_GETPPID  /**/
?H:.
?LINT:set d_getppid
: see if getppid exists
set getppid d_getppid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getppid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_readdir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_readdir.U,v $
?RCS: Revision 3.0.1.1  1994/05/06  14:46:37  ram
?RCS: patch23: added support for seekdir, telldir and rewinddir (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X: Force checking for <dirent.h> inclusion
?X:INC: i_dirent
?MAKE:d_readdir d_seekdir d_telldir d_rewinddir: Inlibc
?MAKE: -pick add $@ %<
?S:d_readdir:
?S: This variable conditionally defines HAS_READDIR if readdir()
 is
?S: available to read directory entries.
?S:.
?C:HAS_READDIR (READDIR):
?C: This symbol, if defined, indicates that the readdir routine is
?C: available to read directory entries. You may have to include
?C: <dirent.h>. See I_DIRENT.
?C:.
?H:#$d_readdir HAS_READDIR  /**/
?H:.
?S:d_seekdir:
?S: This variable conditionally defines HAS_SEEKDIR if seekdir() is
?S: available.
?S:.
?C:HAS_SEEKDIR:
?C: This symbol, if defined, indicates that the seekdir routine is
?C: available. You may have to include <dirent.h>. See I_DIRENT.
?C:.
?H:#$d_seekdir HAS_SEEKDIR  /**/
?H:.
?S:d_telldir:
?S: This variable conditionally defines HAS_TELLDIR if telldir() is
?S: available.
?S:.
?C:HAS_TELLDIR:
?C: This symbol, if defined, indicates that the telldir routine is
?C: available. You may have to include <dirent.h>. See I_DIRENT.
```

```
?C:.
?H:#$d_telldir HAS_TELLDIR  /**/
?H:.
?S:d_rewinddir:
?S: This variable conditionally defines HAS_REWINDDIR if rewinddir() is
?S: available.
?S:.
?C:HAS_REWINDDIR:
?C: This
 symbol, if defined, indicates that the rewinddir routine is
?C: available. You may have to include <dirent.h>. See I_DIRENT.
?C:.
?H:#$d_rewinddir HAS_REWINDDIR  /**/
?H:.
?LINT:set d_readdir d_seekdir d_telldir d_rewinddir
: see if readdir and friends exist
set readdir d_readdir
eval $inlibc
@if d_seekdir || HAS_SEEKDIR
set seekdir d_seekdir
eval $inlibc
@end
@if d_telldir || HAS_TELLDIR
set telldir d_telldir
eval $inlibc
@end
@if d_rewinddir || HAS_REWINDDIR
set rewinddir d_rewinddir
eval $inlibc
@end
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_readdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: intsize.U,v 3.0.1.2 1997/02/28 15:55:26 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: intsize.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:55:26  ram
```

```
?RCS: patch61: avoid prompting the user if the test runs ok
?RCS: patch61: moved code from longsize.U into there
?RCS: patch61: new tests for shortsize as well
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:21:06  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:intsize longsize
 shortsize: Compile Myread cat run i_stdlib rm_try
?MAKE: -pick add $@ %<
?S:intsize:
?S: This variable contains the value of the INTSIZE symbol, which
?S: indicates to the C program how many bytes there are in an int.
?S:.
?S:longsize:
?S: This variable contains the value of the LONGSIZE symbol, which
?S: indicates to the C program how many bytes there are in a long.
?S:.
?S:shortsize:
?S: This variable contains the value of the SHORTSIZE symbol which
?S: indicates to the C program how many bytes there are in a short.
?S:.
?C:INTSIZE:
?C: This symbol contains the value of sizeof(int) so that the C
?C: preprocessor can make decisions based on it.
?C:.
?C:LONGSIZE:
?C: This symbol contains the value of sizeof(long) so that the C
?C: preprocessor can make decisions based on it.
?C:.
?C:SHORTSIZE:
?C: This symbol contains the value of sizeof(short) so that the C
?C: preprocessor can make decisions based on it.
?C:.
?H:#define INTSIZE $intsize  /**/
?H:#define LONGSIZE $longsize  /**/
?H:#define
 SHORTSIZE $shortsize  /**/
?H:.
?F:!try
: check for lengths of integral types
echo " "
case "$intsize" in
")
 echo "Checking to see how big your integers are..." >&4
```

```
 $cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
{
@if INTSIZE || intsize
 printf("intsize=%d;\n", (int)sizeof(int));
@end
@if LONGSIZE || longsize
 printf("longsize=%d;\n", (int)sizeof(long));
@end
@if SHORTSIZE || shortsize
 printf("shortsize=%d;\n", (int)sizeof(short));
@end
 exit(0);
}
EOCP
 set try
 if eval $compile_ok && $run ./try > /dev/null; then
  eval `$run ./try`
@if INTSIZE || intsize
  echo "Your integers are $intsize bytes long."
@end
@if LONGSIZE || longsize
  echo "Your long integers are $longsize bytes long."
@end
@if SHORTSIZE || shortsize
  echo "Your short integers are $shortsize bytes long."
@end
 else
  $cat >&4 <<EOM
!
Help! I can't compile and run the intsize test program: please enlighten me!
(This is probably a misconfiguration
 in your system or libraries, and
you really ought to fix it.  Still, I'll try anyway.)
!
EOM
@if INTSIZE || intsize
  dflt=4
  rp="What is the size of an integer (in bytes)?"
  . ./myread
  intsize="$ans"
@end
@if LONGSIZE || longsize
```

```
  dflt=$intsize
  rp="What is the size of a long integer (in bytes)?"
  . ./myread
  longsize="$ans"
@end
@if SHORTSIZE || shortsize
  dflt=2
  rp="What is the size of a short integer (in bytes)?"
  . ./myread
  shortsize="$ans"
@end
 fi
 ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/a_dvisory/intsize.U
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```
?RCS: $Id: d_sigsetmk.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sigsetmk.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:23  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sigsetmk: Csym Setvar
?MAKE: -pick add $@ %<
?S:d_sigsetmk:
?S: This variable conditionally defines the HAS_SIGSETMASK symbol, which
?S: indicates to the C program that the sigsetmask() routine is available
?S: to set current signal mask.
?S:.
?C:HAS_SIGSETMASK (SIGSETMASK):
?C: This symbol, if defined, indicates that the sigsetmask()
 routine is
?C: available to set current signal mask. Otherwise, you should probably
?C: emulate this by using signal(), but fear race conditions...
?C:.
```

```
?H:#$d_sigsetmk HAS_SIGSETMASK  /**/
?H:.
?LINT:set d_sigsetmk
: see if sigsetmask exists
echo " "
if set sigsetmask val -f d_sigsetmk; eval $csym; $val; then
 echo 'sigsetmask() found.' >&4
 val="$define"
else
 echo "sigsetmask() not found -- We'll use signal()." >&4
 val="$undef"
fi
set d_sigsetmk
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sigsetmk.U
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```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_finite: Inlibc
?MAKE: -pick add $@ %<
?S:d_finite:
?S: This variable conditionally defines the HAS_FINITE symbol, which
?S: indicates to the C program that the finite() routine is available.
?S:.
?C:HAS_FINITE:
?C: This symbol, if defined, indicates that the finite routine is
?C: available to check whether a double is finite (non-infinity non-NaN).
?C:.
?H:#$d_finite HAS_FINITE  /**/
?H:.
?LINT:set d_finite
: see if finite exists
set finite d_finite
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_finite.U

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```
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_int64_t: Inhdr cat rm_try Setvar Compile i_inttypes
?MAKE: -pick add $@ %<
?S:d_int64_t:
?S: This symbol will be defined if the C compiler supports int64_t.
?S:.
?C:HAS_INT64_T:
?C: This symbol will defined if the C compiler supports int64_t.
?C: Usually the <inttypes.h> needs to be included, but sometimes
?C: <sys/types.h> is enough.
?C:.
?H:#$d_int64_t     HAS_INT64_T              /**/
?H:.
?LINT:set d_int64_t
: check for int64_t
echo " "
echo "Checking to see if you have int64_t..." >&4
$cat >try.c <<EOCP
#include
 <sys/types.h>
#$i_inttypes I_INTTYPES
#ifdef I_INTTYPES
#include <inttypes.h>
#endif
int main() { int64_t x = 7; }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have int64_t."
else
 val="$undef"
 echo "You do not have int64_t."
fi
$rm_try
set d_int64_t
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_int64_t.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sunscanf.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:sunscanf: cat rm Myread +cc +ccflags test Setvar
?MAKE: -pick add $@ %<
?S:sunscanf:
?S: This variable is set if this system runs with the Sun version
?S: of scanf.
?S:.
?C:SUNSCANF:
?C: This variable is set if this system runs with the Sun version
?C: of scanf.
?C:.
?H:#$sunscanf  SUNSCANF  /**/
?H:.
?LINT:set sunscanf
: check to see what kinda scanf your using.
echo " "
echo "Checking
 to see what flavor of scanf you have..." >&4
$cat >scanf.c <<'EOCP'
int main()
{
 float value;

 sscanf("4.5","%g",&value);
 printf("%d\n", value == 4.5);
}
EOCP
if $cc $ccflags -o scanf scanf.c >/dev/null 2>&1 ; then
 if $test `scanf` = 0; then
```

```
  echo "Hmm.. seems your not running the USG flavor.."
  val="$undef"
 else
  echo "Uh... your running the USG flavor of scanf."
  val="$define"
 fi
else
 echo "(I can't seem to compile the test program... Guessing)"
 val="$undef"
fi
set sunscanf
eval $setvar
$rm -f scanf*
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/sunscanf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_math.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_math.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:21:59  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:i_math: Inhdr
?MAKE: -pick add $@ %<
?X: Are there really systems that *DON'T* have math.h?
?S:i_math:
?S: This variable conditionally defines the I_MATH symbol, and indicates
?S: whether a C program may include <math.h>.
?S:.
?C:I_MATH:
?C: This symbol, if defined, indicates
 to the C program that it should
?C: include <math.h>.
?C:.
?H:#$i_math I_MATH  /**/
```

```
?H:.
?LINT:set i_math
: see if this is a math.h system
set math.h i_math
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_math.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_dlfcn.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_dlfcn.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:21:53  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:i_dlfcn: Inhdr
?MAKE: -pick add $@ %<
?S:i_dlfcn:
?S: This variable conditionally defines the I_DLFCN symbol, which
?S: indicates to the C program that <dlfcn.h> exists and should
?S: be included.
?S:.
?C:I_DLFCN:
?C: This symbol, if defined, indicates that <dlfcn.h> exists
 and should
?C: be included.
?C:.
?H:#$i_dlfcn I_DLFCN  /**/
?H:.
?LINT:set i_dlfcn
: see if dlfcn is available
set dlfcn.h i_dlfcn
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/dist/U/i_dlfcn.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_chown.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_chown.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:14  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_chown: Inlibc
?MAKE: -pick add $@ %<
?S:d_chown:
?S: This variable conditionally defines the HAS_CHOWN symbol, which
?S: indicates to the C program that the chown() routine is available.
?S:.
?C:HAS_CHOWN :
?C: This symbol, if defined, indicates that the chown routine is
?C: available.
?C:.
?H:#$d_chown
 HAS_CHOWN  /**/
?H:.
?LINT:set d_chown
: see if chown exists
set chown d_chown
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_chown.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
?MAKE:d_fma: Inlibc
?MAKE: -pick add $@ %<
?S:d_fma:
```

```
?S: This variable conditionally defines the HAS_FMA symbol, which
?S: indicates to the C program that the fma() routine is available.
?S:.
?C:HAS_FMA:
?C: This symbol, if defined, indicates that the fma routine is
?C: available to do the multiply-add function.
?C:.
?H:#$d_fma HAS_FMA  /**/
?H:.
?LINT:set d_fma
: see if fma exists
set fma d_fma
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fma.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_open3.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:37:12  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  13:58:26  ram
?RCS: patch56: added knowledge of the O_NONBLOCK symbol
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_open3: test +cc cat +cppflags h_fcntl h_sysfile rm Setvar Findhdr Warn
?MAKE: -pick add $@ %<
?X: It would be easy to separate the h_O_stuff from this.
?X: Is there a reason
 to do so? -- HMS
?S:d_open3:
?S: This variable conditionally defines the HAS_OPEN3 manifest constant,
?S: which indicates to the C program that the 3 argument version of
?S: the open(2) function is available.
```

```
?S:.
?C:HAS_OPEN3 (OPEN3):
?C: This manifest constant lets the C program know that the three
?C: argument form of open(2) is available.
?C:.
?H:#$d_open3 HAS_OPEN3  /**/
?H:.
?W:%<:O_RDONLY O_WRONLY O_RDWR O_NDELAY O_APPEND O_SYNC O_CREAT O_TRUNC
?W:%<:O_EXCL O_NONBLOCK
?F:!open3
?LINT:set d_open3
?LINT:change h_fcntl h_sysfile
: Locate the flags for 'open()'
echo " "
$cat >open3.c <<'EOCP'
#include <sys/types.h>
#ifdef I_FCNTL
#include <fcntl.h>
#endif
#ifdef I_SYS_FILE
#include <sys/file.h>
#endif
int main() {
 if(O_RDONLY);
#ifdef O_TRUNC
 exit(0);
#else
 exit(1);
#endif
}
EOCP
: check sys/file.h first to get FREAD on Sun
if $test `./findhdr sys/file.h` && \
  $cc $cppflags "-DI_SYS_FILE" -o open3 open3.c >/dev/null 2>&1 ; then
 h_sysfile=true;
 echo "<sys/file.h> defines the
 O_* constants..." >&4
 if ./open3; then
  echo "and you have the 3 argument form of open()." >&4
  val="$define"
 else
  echo "but not the 3 argument form of open().  Oh, well." >&4
  val="$undef"
 fi
elif $test `./findhdr fcntl.h` && \
  $cc "-DI_FCNTL" -o open3 open3.c >/dev/null 2>&1 ; then
 h_fcntl=true;
 echo "<fcntl.h> defines the O_* constants..." >&4
```

```
 if ./open3; then
  echo "and you have the 3 argument form of open()." >&4
  val="$define"
 else
  echo "but not the 3 argument form of open().  Oh, well." >&4
  val="$undef"
 fi
else
 val="$undef"
 ./warn "I can't find the O_* constant definitions!  You got problems."
fi
set d_open3
eval $setvar
$rm -f open3*
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_open3.U
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```
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?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: Original author Jarkko Hietaniemi <jhi@iki.fi>
?RCS: Merged into dist by Andy Dougherty  July 13, 1998
?RCS:
?MAKE:trnl: Nothing
?MAKE: -pick add $@ %<
?S:trnl:
?S: This variable contains the value to be passed to the tr(1)
?S: command to transliterate a newline.  Typical values are
?S: '\012' and '\n'.  This is needed for EBCDIC systems where
?S: newline is not necessarily '\012'.
?S:.
?T: DJGPP
: Find the appropriate value for a newline for tr
?X: We can't
 use $tr since that would cause a circular dependency via Myread
?X: dos djgpp uses '\015\012', but reportedly is happy with '\012' in the
```

```
?X: tr command.  I don't know why it passes the '\n' test but later
?X: refuses to work correctly with it.  --AD  6/14/98
if test -n "$DJGPP"; then
	trnl='\012'
fi
if test X"$trnl" = X; then
 case "`echo foo | tr '\n' x 2>/dev/null`" in
 foox) trnl='\n' ;;
 esac
fi
if test X"$trnl" = X; then
 case "`echo foo | tr '\012' x 2>/dev/null`" in
 foox) trnl='\012' ;;
 esac
fi
if test X"$trnl" = X; then
	case "`echo foo | tr '\r\n' xy 2>/dev/null`" in
	fooxy) trnl='\n\r' ;;
	esac
fi
if test X"$trnl" = X; then
 cat <<EOM >&2

$me: Fatal Error: cannot figure out how to translate newlines with 'tr'.

EOM
 exit 1
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/trnl.U
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```
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_isascii.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:13:39  ram
```

```
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:09:32  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_isascii: cc cat ccflags ldflags rm libs Setvar
?MAKE: -pick add $@ %<
?S:d_isascii:
?S: This variable conditionally defines the HAS_ISASCII constant,
?S: which indicates to the C program that isascii()
 is available.
?S:.
?C:HAS_ISASCII:
?C: This manifest constant lets the C program know that isascii
?C: is available.
?C:.
?H:#$d_isascii HAS_ISASCII  /**/
?H:.
?LINT:set d_isascii
?X: Can't use Inlibc because isascii() might be a macro.
: Look for isascii
echo " "
$cat >isascii.c <<'EOCP'
#include <stdio.h>
#include <ctype.h>
int main() {
 int c = 'A';
 if (isascii(c))
  exit(0);
 else
  exit(1);
}
EOCP
if $cc $ccflags $ldflags -o isascii isascii.c $libs >/dev/null 2>&1 ; then
 echo "isascii() found." >&4
 val="$define"
else
 echo "isascii() NOT found." >&4
 val="$undef"
fi
set d_isascii
eval $setvar
$rm -f isascii*
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_isascii.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sitelib.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sitelib.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?RCS: Revision 3.0.1.1  1997/02/28  16:21:35  ram
?RCS: patch61: created
?RCS:
?MAKE:sitelib sitelibexp installsitelib sitelib_stem: cat Getfile Oldconfig \
 Setprefixvar Prefixit package version sed installstyle siteprefix
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitelib=''
?S:sitelib:
?S: This variable contains the
 eventual value of the SITELIB symbol,
?S: which is the name of the private library for this package.  It may
?S: have a ~ on the front. It is up to the makefile to eventually create
?S: this directory while performing installation (with ~ substitution).
?S: The standard distribution will put nothing in this directory.
?S: After perl has been installed, users may install their own local
?S: architecture-independent modules in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitelibexp=''
?S:sitelibexp:
?S: This variable is the ~name expanded version of sitelib, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installsitelib=''
?S:installsitelib:
?S: This variable is really the same as sitelibexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
```

```
?S:sitelib_stem:
?S: This variable is $sitelibexp with any trailing version-specific component
?S: removed.
  The elements in inc_version_list (inc_version_list.U) can
?S: be tacked onto this variable to generate a list of directories to search.
?S:.
?C:SITELIB:
?C: This symbol contains the name of the private library for this package.
?C: The library is private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.  The program
?C: should be prepared to do ~ expansion.
?C: The standard distribution will put nothing in this directory.
?C: After perl has been installed, users may install their own local
?C: architecture-independent modules in this directory with
?C:  MakeMaker Makefile.PL
?C: or equivalent.  See INSTALL for details.
?C:.
?C:SITELIB_EXP:
?C: This symbol contains the ~name expanded version of SITELIB, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?C:SITELIB_STEM:
?C: This define is SITELIB_EXP with any trailing version-specific component
?C: removed.  The elements in
 inc_version_list (inc_version_list.U) can
?C: be tacked onto this variable to generate a list of directories to search.
?C:.
?H:#define SITELIB "$sitelib"  /**/
?H:#define SITELIB_EXP "$sitelibexp"  /**/
?H:#define SITELIB_STEM "$sitelib_stem"  /**/
?H:.
?T:prog
?LINT:change prefixvar
?LINT:set installsitelib
?LINT:set sitelib
?LINT:set sitelibexp
: determine where site specific libraries go.
: Usual default is /usr/local/lib/perl5/site_perl/$version
: The default "style" setting is made in installstyle.U
: XXX No longer works with Prefixit stuff.
?X: remove any trailing -3.0 or other version identification
prog=`echo $package | $sed 's/-*[0-9.]*$//'`
case "$sitelib" in
") case "$installstyle" in
 *lib/perl5*) dflt=$siteprefix/lib/$package/site_$prog/$version ;;
 *)  dflt=$siteprefix/lib/site_$prog/$version ;;
 esac
 ;;
```

```
*) dflt="$sitelib"
 ;;
esac
$cat <<EOM

The installation process will create a directory for
site-specific extensions and modules.  Most users find it convenient
to place
 all site-specific files in this directory rather than in the
main distribution directory.

EOM
fn=d~+
rp='Pathname for the site-specific library files?'
. ./getfile
prefixvar=sitelib
. ./setprefixvar
sitelib_stem=`echo "$sitelibexp" | sed "s,/$version$,,"`
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/sitelib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_stdio_stream_array stdio_stream_array: run \
 Compile cat rm_try Oldconfig Myread Setvar
?MAKE: -pick add $@ %<
?S:d_stdio_stream_array:
?S: This variable tells whether there is an array holding
?S: the stdio streams.
?S:.
?S:stdio_stream_array:
?S: This variable tells the name of the array holding the stdio streams.
?S: Usual values include _iob, __iob, and __sF.
?S:.
?C:HAS_STDIO_STREAM_ARRAY:
?C: This symbol, if defined, tells that there is an array
?C: holding the stdio streams.
```

```
?C:.
?C:STDIO_STREAM_ARRAY:
?C: This
 symbol tells the name of the array holding the stdio streams.
?C: Usual values include _iob, __iob, and __sF.
?C:.
?H:#$d_stdio_stream_array HAS_STDIO_STREAM_ARRAY /**/
?H:?%<:#ifdef HAS_STDIO_STREAM_ARRAY
?H:?%<:#define STDIO_STREAM_ARRAY $stdio_stream_array
?H:?%<:#endif
?H:.
?T:s
?F:!try
: Check stream access
$cat >&4 <<EOM
Checking how to access stdio streams by file descriptor number...
EOM
case "$stdio_stream_array" in
") $cat >try.c <<EOCP
#include <stdio.h>
int main() {
 if (&STDIO_STREAM_ARRAY[fileno(stdin)] == stdin)
   printf("yes\n");
}
EOCP
 for s in _iob __iob __sF
 do
        set try -DSTDIO_STREAM_ARRAY=$s
  if eval $compile; then
   case "`$run ./try`" in
   yes) stdio_stream_array=$s; break ;;
   esac
  fi
 done
 $rm_try
esac
case "$stdio_stream_array" in
") $cat >&4 <<EOM
I can't figure out how to access stdio streams by file descriptor number.
EOM
 d_stdio_stream_array="$undef"
 ;;
*) $cat >&4 <<EOM
You can access stdio streams by file descriptor number
 by the $stdio_stream_array array.
EOM
 d_stdio_stream_array="$define"
 ;;
```

```
esac

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/stdio_streams.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_crypt_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_crypt_r crypt_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_crypt extern_C
?MAKE: -pick add $@ %<
?S:d_crypt_r:
?S: This variable conditionally defines the HAS_CRYPT_R symbol,
?S: which indicates to the C program that the crypt_r()
?S: routine is available.
?S:.
?S:crypt_r_proto:
?S: This variable encodes the prototype of crypt_r.
?S: It is zero if d_crypt_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_crypt_r
?S: is defined.
?S:.
?C:HAS_CRYPT_R:
?C: This symbol, if defined, indicates that the crypt_r routine
?C: is available to crypt re-entrantly.
?C:.
?C:CRYPT_R_PROTO:
?C: This
 symbol encodes the prototype of crypt_r.
?C: It is zero if d_crypt_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_crypt_r
?C: is defined.
?C:.
?H:#$d_crypt_r HAS_CRYPT_R /**/
?H:#define CRYPT_R_PROTO $crypt_r_proto /**/
?H:.
?T:try hdrs d_crypt_r_proto
: see if crypt_r exists
set crypt_r d_crypt_r
eval $inlibc
case "$d_crypt_r" in
```

```
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_crypt crypt.h"
 case "$d_crypt_r_proto:$usethreads" in
 ":define") d_crypt_r_proto=define
  set d_crypt_r_proto crypt_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_crypt_r_proto" in
 define)
 case "$crypt_r_proto" in
 "|0) try='char* crypt_r(const char*, const char*, struct crypt_data*);'
 ./protochk "$extern_C $try" $hdrs && crypt_r_proto=B_CCS ;;
 esac
 case "$crypt_r_proto" in
 "|0) try='char* crypt_r(const char*, const char*, CRYPTD*);'
 ./protochk "$extern_C $try" $hdrs && crypt_r_proto=B_CCD ;;
 esac
 case "$crypt_r_proto" in
 "|0) d_crypt_r=undef
  crypt_r_proto=0
  echo
 "Disabling crypt_r, cannot determine prototype." >&4 ;;
 * ) case "$crypt_r_proto" in
  REENTRANT_PROTO*) ;;
  *) crypt_r_proto="REENTRANT_PROTO_$crypt_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "crypt_r has no prototype, not using it." >&4 ;;
  esac
  d_crypt_r=undef
  crypt_r_proto=0
  ;;
 esac
 ;;
*) crypt_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_crypt_r.U
No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_nexttoward: Inlibc
?MAKE: -pick add $@ %<
?S:d_nexttoward:
?S: This variable conditionally defines HAS_NEXTTOWARD if nexttoward()
?S: is available to return the next machine representable long double from
?S: x in direction y.
?S:.
?C:HAS_NEXTTOWARD:
?C: This symbol, if defined, indicates that the nexttoward routine is
?C: available to return the next machine representable long double from
?C: x in direction y.
?C:.
?H:#$d_nexttoward HAS_NEXTTOWARD  /**/
?H:.
?LINT:set d_nexttoward
: see if nexttoward exists
set nexttoward d_nexttoward
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_nexttoward.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Extract.U,v 3.0.1.2 1997/02/28 14:58:52 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Extract.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  14:58:52  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:51:46  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which can be doted in order to extract
```

```
?X: .SH files with variable substitutions.
?X:
?X: When running
 Configure from a remote directory ($src is not '.'),
?X: then the files will be created in that directory, so beware!
?X:
?MAKE:Extract: src
?MAKE: -pick add $@ %<
?F:./extract
?T:PERL_CONFIG_SH dir file name create mkdir_p
: script used to extract .SH files with variable substitutions
cat >extract <<'EOS'
PERL_CONFIG_SH=true
echo "Doing variable substitutions on .SH files..."
if test -f MANIFEST; then
 set x `awk '{print $1}' < MANIFEST | grep '\.SH$'`
else
 echo "(Looking for .SH files under the source directory.)"
 set x `(cd "$src"; find . -name "*.SH" -print)`
fi
shift
case $# in
0) set x `(cd "$src"; echo *.SH)`; shift;;
esac
if test ! -f "$src/$1"; then
 shift
fi
?X: script to emulate mkdir -p
mkdir_p='
name=$1;
create="";
while test $name; do
 if test ! -d "$name"; then
  create="$name $create";
  name=`echo $name | sed -e "s|^[^/]*$||"`;
  name=`echo $name | sed -e "s|\(.*\)/.*|\1|"`;
 else
  name="";
 fi;
done;
for file in $create; do
 mkdir $file;
done
'
for file in $*;
 do
 case "$src" in
 ".")
```

```
  case "$file" in
  */*)
   dir=`expr X$file : 'X\(.*\)/'`
   file=`expr X$file : 'X.*/\(.*\)'`
   (cd "$dir" && . ./$file)
   ;;
  *)
   . ./$file
   ;;
  esac
  ;;
 *)
?X:
?X: When running Configure remotely ($src is not '.'), we cannot source
?X: the files directly, since that would wrongly cause the extraction
?X: where the source lie instead of withing the current directory. Therefore,
?X: we need to 'sh <file' then, which is okay since they will source the
?X: existing config.sh file. It's not possible to use:
?X:  ../src/Configure -S -O -Dsomething
?X: unfortunately since no new config.sh with the -Dsomething override
?X: will be created before running the .SH files. A minor buglet.
?X:
?X: Note that we must create the directory hierarchy ourselves if it does
?X: not exist already, and that is done through a shell emulation of the
?X: 'mkdir -p' command. We don't want to use the $installdir metaconfig
?X: symbol here since that would require too much to
 be configured for
?X: this simple extraction task that may happen quickly with 'Configure -S'.
?X:  -- RAM, 18/03/96
?X:
  case "$file" in
  */*)
   dir=`expr X$file : 'X\(.*\)/'`
   file=`expr X$file : 'X.*/\(.*\)'`
   (set x $dir; shift; eval $mkdir_p)
   sh <"$src/$dir/$file"
   ;;
  *)
   sh <"$src/$file"
   ;;
  esac
  ;;
 esac
done
if test -f "$src/config_h.SH"; then
 if test ! -f config.h; then
 : oops, they left it out of MANIFEST, probably, so do it anyway.
 . "$src/config_h.SH"
```

```
 fi
fi
EOS
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Extract.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getprotoprotos.U,v $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_getprotoprotos : Hasproto i_netdb
?MAKE: -pick add $@ %<
?S:d_getprotoprotos:
?S: This variable conditionally defines the HAS_GETPROTO_PROTOS symbol,
?S: which indicates to the C program that <netdb.h> supplies
?S: prototypes for the various getproto*() functions.
?S: See also netdbtype.U for probing for various netdb types.
?S:.
?C:HAS_GETPROTO_PROTOS:
?C: This symbol, if defined, indicates that <netdb.h> includes
?C: prototypes for getprotoent(), getprotobyname(), and
?C: getprotobyaddr().
  Otherwise, it is up to the program to guess
?C: them.  See netdbtype.U for probing for various Netdb_xxx_t types.
?C:.
?H:#$d_getprotoprotos HAS_GETPROTO_PROTOS /**/
?H:.
?LINT:set d_getprotoprotos
: see if prototypes for various getprotoxxx netdb.h functions are available
echo " "
set d_getprotoprotos getprotoent $i_netdb netdb.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/d_getprotoprotos.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getservent_r.U,v 0RCS:
```

```
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getservent_r getservent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getservent_r:
?S: This variable conditionally defines the HAS_GETSERVENT_R symbol,
?S: which indicates to the C program that the getservent_r()
?S: routine is available.
?S:.
?S:getservent_r_proto:
?S: This variable encodes the prototype of getservent_r.
?S: It is zero if d_getservent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getservent_r
?S: is defined.
?S:.
?C:HAS_GETSERVENT_R:
?C: This symbol, if defined, indicates that the getservent_r routine
?C: is
 available to getservent re-entrantly.
?C:.
?C:GETSERVENT_R_PROTO:
?C: This symbol encodes the prototype of getservent_r.
?C: It is zero if d_getservent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getservent_r
?C: is defined.
?C:.
?H:#$d_getservent_r HAS_GETSERVENT_R /**/
?H:#define GETSERVENT_R_PROTO $getservent_r_proto /**/
?H:.
?T:try hdrs d_getservent_r_proto
: see if getservent_r exists
set getservent_r d_getservent_r
eval $inlibc
case "$d_getservent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getservent_r_proto:$usethreads" in
 ":define") d_getservent_r_proto=define
  set d_getservent_r_proto getservent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
```

```
 case "$d_getservent_r_proto" in
 define)
 case "$getservent_r_proto" in
 "|0) try='int getservent_r(struct servent*, char*, size_t, struct servent**);'
 ./protochk "$extern_C $try" $hdrs && getservent_r_proto=I_SBWR ;;
 esac
 case "$getservent_r_proto"
 in
 "|0) try='int getservent_r(struct servent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getservent_r_proto=I_SBI ;;
 esac
 case "$getservent_r_proto" in
 "|0) try='struct servent* getservent_r(struct servent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getservent_r_proto=S_SBI ;;
 esac
 case "$getservent_r_proto" in
 "|0) try='int getservent_r(struct servent*, struct servent_data*);'
 ./protochk "$extern_C $try" $hdrs && getservent_r_proto=I_SD ;;
 esac
 case "$getservent_r_proto" in
 "|0) d_getservent_r=undef
  getservent_r_proto=0
  echo "Disabling getservent_r, cannot determine prototype." >&4 ;;
 * ) case "$getservent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getservent_r_proto="REENTRANT_PROTO_$getservent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getservent_r has no prototype, not using it." >&4 ;;
  esac
  d_getservent_r=undef
  getservent_r_proto=0
  ;;
 esac
 ;;
*) getservent_r_proto=0
 ;;
esac
```

Found
 in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getservent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setsid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setsid.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:06:49  ram
?RCS: patch16: created
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setsid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setsid:
?S: This variable conditionally defines HAS_SETSID if setsid() is
?S: available to set the process group ID.
?S:.
?C:HAS_SETSID:
?C: This symbol, if defined, indicates that the setsid routine is
?C: available
 to set the process group ID.
?C:.
?H:#$d_setsid HAS_SETSID /**/
?H:.
?LINT:set d_setsid
: see if setsid exists
set setsid d_setsid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setsid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_systypes.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_systypes.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:41  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Look wether <sys/types.h> needs to be included.
?X:
?MAKE:i_systypes: Inhdr
?MAKE: -pick add $@ %<
?S:i_systypes:
?S: This variable conditionally defines the I_SYS_TYPES symbol,
?S: and indicates whether a C program should include <sys/types.h>.
?S:.
?C:I_SYS_TYPES (I_SYSTYPES):
?C: This symbol, if defined, indicates to the C program
 that it should
?C: include <sys/types.h>.
?C:.
?H:#$i_systypes I_SYS_TYPES  /**/
?H:.
?LINT:set i_systypes
: see if sys/types.h has to be included
set sys/types.h i_systypes
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_systypes.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_msghdr_s: Hasstruct i_systypes d_socket i_sysuio Setvar
?MAKE: -pick add $@ %<
?S:d_msghdr_s:
?S: This variable conditionally defines the HAS_STRUCT_MSGHDR symbol,
?S: which indicates that the struct msghdr is supported.
?S:.
?C:HAS_STRUCT_MSGHDR:
?C: This symbol, if defined, indicates that the struct msghdr
?C: is supported.
```

```
?C:.
?H:#$d_msghdr_s HAS_STRUCT_MSGHDR /**/
?H:.
?LINT:set d_msghdr_s
: Check for msghdr_s
echo " "
echo "Checking to see if your system supports struct msghdr..." >&4
set d_msghdr_s msghdr $i_systypes sys/types.h $d_socket sys/socket.h $i_sysuio sys/uio.h
eval $hasstruct
case "$d_msghdr_s" in
"$define")      echo "Yes, it does."   ;;
*)              echo "No, it doesn't."
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_msghdr_s.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_msgsnd.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msgsnd.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:41  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_msgsnd: Inlibc
?MAKE: -pick add $@ %<
?S:d_msgsnd:
?S: This variable conditionally defines the HAS_MSGSND symbol, which
?S: indicates to the C program that the msgsnd() routine is available.
?S:.
?C:HAS_MSGSND:
?C: This symbol, if defined, indicates that the msgsnd() routine is
?C: available to send a message into the message queue.
?C:.
?H:#$d_msgsnd
 HAS_MSGSND  /**/
?H:.
?LINT:set d_msgsnd
```

```
: see if msgsnd exists
set msgsnd d_msgsnd
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_msgsnd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setpgrp.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:44:16  ram
?RCS: patch61: obsoleted USE_BSDGRP in favor of USE_BSD_SETPGRP
?RCS: patch61: another unit now also defines a USE_BSD_GETPGRP
?RCS: patch61: fallback for test program failure improved
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  13:59:30  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:15:37  ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
 patch36: call ./usg explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setpgrp d_bsdsetpgrp: cat rm +cc +libs +ccflags \
 +ldflags Inlibc Guess Setvar i_unistd
?MAKE: -pick add $@ %<
?S:d_setpgrp:
?S: This variable conditionally defines HAS_SETPGRP if setpgrp() is
?S: available to set the current process group.
?S:.
?S:d_bsdsetpgrp (d_bsdpgrp):
?S: This variable conditionally defines USE_BSD_SETPGRP if
?S: setpgrp needs two arguments whereas USG one needs none.
?S: See also d_setpgid for a POSIX interface.
?S:.
```

```
?C:HAS_SETPGRP (SETPGRP):
?C: This symbol, if defined, indicates that the setpgrp routine is
?C: available to set the current process group.
?C:.
?C:USE_BSD_SETPGRP (USE_BSDPGRP BSDPGRP):
?C: This symbol, if defined, indicates that setpgrp needs two
?C: arguments whereas USG one needs none.  See also HAS_SETPGID
?C: for a POSIX interface.
?C:.
?H:#$d_setpgrp HAS_SETPGRP  /**/
?H:#$d_bsdsetpgrp
 USE_BSD_SETPGRP /**/
?H:.
?F:!set.c !set
?T:xxx
?LINT:set d_setpgrp d_bsdsetpgrp
: see if setpgrp exists
set setpgrp d_setpgrp
eval $inlibc

@if USE_BSD_SETPGRP || d_bsdsetpgrp
case "$d_setpgrp" in
"$define")
 echo " "
 echo "Checking to see which flavor of setpgrp is in use..."
 $cat >set.c <<EOP
#$i_unistd I_UNISTD
#include <sys/types.h>
#ifdef I_UNISTD
#  include <unistd.h>
#endif
int main()
{
 if (getuid() == 0) {
  printf("(I see you are running Configure as super-user...)\n");
  setuid(1);
 }
#ifdef TRY_BSD_PGRP
 if (-1 == setpgrp(1, 1))
  exit(0);
#else
 if (setpgrp() != -1)
  exit(0);
#endif
 exit(1);
}
EOP
 if $cc -DTRY_BSD_PGRP $ccflags $ldflags -o set set.c $libs >/dev/null 2>&1 && ./set; then
```

```
 echo 'You have to use setpgrp(pid,pgrp) instead of setpgrp().' >&4
 val="$define"
elif $cc $ccflags $ldflags -o set set.c $libs >/dev/null 2>&1 && ./set; then
 echo 'You have to use setpgrp() instead of setpgrp(pid,pgrp).' >&4
 val="$undef"
else
 echo "(I can't
seem to compile and run the test program.)"
 if ./usg; then
  xxx="a USG one, i.e. you use setpgrp()."
 else
  # SVR4 systems can appear rather BSD-ish.
  case "$i_unistd" in
  $undef)
   xxx="a BSD one, i.e. you use setpgrp(pid,pgrp)."
   val="$define"
   ;;
  $define)
   xxx="probably a USG one, i.e. you use setpgrp()."
   val="$undef"
   ;;
  esac
 fi
 echo "Assuming your setpgrp is $xxx" >&4
fi
;;
*) val="$undef";;
esac
set d_bsdsetpgrp
eval $setvar
$rm -f set set.c
@end
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setpgrp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_srand48_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_srand48_r srand48_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_stdlib extern_C
```

```
?MAKE: -pick add $@ %<
?S:d_srand48_r:
?S: This variable conditionally defines the HAS_SRAND48_R symbol,
?S: which indicates to the C program that the srand48_r()
?S: routine is available.
?S:.
?S:srand48_r_proto:
?S: This variable encodes the prototype of srand48_r.
?S: It is zero if d_srand48_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_srand48_r
?S: is defined.
?S:.
?C:HAS_SRAND48_R:
?C: This symbol, if defined, indicates that the srand48_r routine
?C: is available to srand48 re-entrantly.
?C:.
?C:SRAND48_R_PROTO:
?C: This
 symbol encodes the prototype of srand48_r.
?C: It is zero if d_srand48_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_srand48_r
?C: is defined.
?C:.
?H:#$d_srand48_r HAS_SRAND48_R /**/
?H:#define SRAND48_R_PROTO $srand48_r_proto /**/
?H:.
?T:try hdrs d_srand48_r_proto
: see if srand48_r exists
set srand48_r d_srand48_r
eval $inlibc
case "$d_srand48_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_stdlib stdlib.h"
 case "$d_srand48_r_proto:$usethreads" in
 ":define") d_srand48_r_proto=define
  set d_srand48_r_proto srand48_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_srand48_r_proto" in
 define)
 case "$srand48_r_proto" in
 "|0) try='int srand48_r(long, struct drand48_data*);'
 ./protochk "$extern_C $try" $hdrs && srand48_r_proto=I_LS ;;
 esac
 case "$srand48_r_proto" in
 "|0) d_srand48_r=undef
  srand48_r_proto=0
```

```
  echo "Disabling srand48_r, cannot determine prototype." >&4 ;;
 * ) case
 "$srand48_r_proto" in
  REENTRANT_PROTO*) ;;
  *) srand48_r_proto="REENTRANT_PROTO_$srand48_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "srand48_r has no prototype, not using it." >&4 ;;
  esac
  d_srand48_r=undef
  srand48_r_proto=0
  ;;
 esac
 ;;
*) srand48_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_srand48_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:sitehtml1dir sitehtml1direxp installsitehtml1dir: Getfile \
 Setprefixvar prefix siteprefix html1dir sed
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitehtml1dir=''
?S:sitehtml1dir:
?S: This variable contains the name of the directory in which site-specific
?S: html source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S: The standard distribution will put nothing in this directory.
?S: After perl
```

```
 has been installed, users may install their own local
?S: html pages in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitehtml1direxp="
?S:sitehtml1direxp:
?S: This variable is the same as the sitehtml1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsitehtml1dir="
?S:installsitehtml1dir:
?S: This variable is really the same as sitehtml1direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: html1direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installsitehtml1dir
?LINT:set sitehtml1dir
?LINT:set sitehtml1direxp
: determine where add-on html pages go
: There is no standard location, so try to copy the previously-selected
: directory structure for the core html pages.
case "$sitehtml1dir" in
")
   dflt=`echo "$html1dir" | $sed "s#^$prefix#$siteprefix#"` ;;
*)     dflt=$sitehtml1dir ;;
esac
case "$dflt" in
"|' ') dflt=none ;;
esac
fn=dn+~
rp='Pathname where the site-specific html pages should be installed?'
. ./getfile
prefixvar=sitehtml1dir
. ./setprefixvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/sitehtml1dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_dlopen.U,v 3.0.1.2 1995/07/25 13:52:56 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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```

```
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_dlopen.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  13:52:56  ram
?RCS: patch56: force compile-link test since symbol might lie in crt0.o (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:34  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_dlopen: Inlibc runnm d_cplusplus ccflags gccversion
?MAKE: -pick add $@ %<
?S:d_dlopen:
?S: This variable conditionally defines the HAS_DLOPEN
 symbol, which
?S: indicates to the C program that the dlopen() routine is available.
?S:.
?C:HAS_DLOPEN :
?C: This symbol, if defined, indicates that the dlopen routine is
?C: available.
?C:.
?H:#$d_dlopen HAS_DLOPEN  /**/
?H:.
?T: xxx_runnm
?T: xxx_ccflags
?LINT:set d_dlopen
?X: We don't permanently change runnm and ccflags, but we do temporarily.
?LINT: change runnm
?LINT: change ccflags
: see if dlopen exists
?X: On NetBSD and FreeBSD, dlopen is available, but it is in
?X: /usr/lib/crt0.o, not in any of the libraries.  Therefore, do not
?X: use the nm extraction, but use a real compile and link test instead.
xxx_runnm="$runnm"
xxx_ccflags="$ccflags"
runnm=false
: with g++ one needs -shared to get is-in-libc to work for dlopen
case "$gccversion" in
") ;;
*Clang*) ;;
*) case "$d_cplusplus" in
 "$define") ccflags="$ccflags -shared" ;;
 esac
 ;;
```

```
esac
set dlopen d_dlopen
eval $inlibc
runnm="$xxx_runnm"
ccflags="$xxx_ccflags"
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_dlopen.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setlocale_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_setlocale_r setlocale_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_locale extern_C
?MAKE: -pick add $@ %<
?S:d_setlocale_r:
?S: This variable conditionally defines the HAS_SETLOCALE_R symbol,
?S: which indicates to the C program that the setlocale_r()
?S: routine is available.
?S:.
?S:setlocale_r_proto:
?S: This variable encodes the prototype of setlocale_r.
?S: It is zero if d_setlocale_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setlocale_r
?S: is defined.
?S:.
?C:HAS_SETLOCALE_R:
?C: This symbol, if defined, indicates that the setlocale_r routine
?C: is
 available to setlocale re-entrantly.
?C:.
?C:SETLOCALE_R_PROTO:
?C: This symbol encodes the prototype of setlocale_r.
?C: It is zero if d_setlocale_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setlocale_r
?C: is defined.
?C:.
?H:#$d_setlocale_r HAS_SETLOCALE_R /**/
?H:#define SETLOCALE_R_PROTO $setlocale_r_proto /**/
?H:.
?T:try hdrs d_setlocale_r_proto
```

```
: see if setlocale_r exists
set setlocale_r d_setlocale_r
eval $inlibc
case "$d_setlocale_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_locale locale.h"
 case "$d_setlocale_r_proto:$usethreads" in
 ":define") d_setlocale_r_proto=define
  set d_setlocale_r_proto setlocale_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_setlocale_r_proto" in
 define)
 case "$setlocale_r_proto" in
 "|0) try='int setlocale_r(int, const char*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && setlocale_r_proto=I_ICBI ;;
 esac
 case "$setlocale_r_proto" in
 "|0) d_setlocale_r=undef
  setlocale_r_proto=0
  echo
 "Disabling setlocale_r, cannot determine prototype." >&4 ;;
 * ) case "$setlocale_r_proto" in
  REENTRANT_PROTO*) ;;
  *) setlocale_r_proto="REENTRANT_PROTO_$setlocale_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "setlocale_r has no prototype, not using it." >&4 ;;
  esac
  d_setlocale_r=undef
  setlocale_r_proto=0
  ;;
 esac
 ;;
*) setlocale_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_setlocale_r.U
No license file was found, but licenses were detected in source scan.

?RCS: Id

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: so.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:30:04  ram
?RCS: patch36: now tells user how he can suppress shared lib lookup (ADO)
?RCS: patch36: removed echo at the top, since it's now in the here-doc (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:07:02  ram
?RCS: patch30: created
?RCS:
?X:
?X: This unit computes the shared-object / shared-lib extension
?X:
?MAKE:so: test libpth Loc Myread Oldconfig cat
?MAKE: -pick add $@ %<
?S:so:
?S: This variable holds the extension used to identify
 shared libraries
?S: (also known as shared objects) on the system. Usually set to 'so'.
?S:.
?T: xxx
: compute shared library extension
case "$so" in
")
 if xxx=`./loc libc.sl X $libpth`; $test -f "$xxx"; then
  dflt='sl'
 else
  dflt='so'
 fi
 ;;
*) dflt="$so";;
esac
$cat <<EOM

On some systems, shared libraries may be available.  Answer 'none' if
you want to suppress searching of shared libraries for the remainder
of this configuration.

EOM
rp='What is the file extension used for shared libraries?'
. ./myread
```

```
so="$ans"
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/so.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS:
?RCS: $Log: d_sigsetjmp.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:44:33  ram
?RCS: patch61: created
?RCS:
?MAKE:d_sigsetjmp: Setvar cat +cc +ccflags +ldflags libs rm
?MAKE: -pick add $@ %<
?S:d_sigsetjmp:
?S: This variable conditionally defines the HAS_SIGSETJMP symbol,
?S: which indicates that the sigsetjmp() routine
 is available to
?S: call setjmp() and optionally save the process's signal mask.
?S:.
?C:HAS_SIGSETJMP:
?C: This variable indicates to the C program that the sigsetjmp()
?C: routine is available to save the calling process's registers
?C: and stack environment for later use by siglongjmp(), and
?C: to optionally save the process's signal mask.  See
?C: Sigjmp_buf, Sigsetjmp, and Siglongjmp.
?C:.
?C:Sigjmp_buf:
?C: This is the buffer type to be used with Sigsetjmp and Siglongjmp.
?C:.
?C:Sigsetjmp:
?C: This macro is used in the same way as sigsetjmp(), but will invoke
?C: traditional setjmp() if sigsetjmp isn't available.
?C: See HAS_SIGSETJMP.
?C:.
```

```
?C:Siglongjmp:
?C: This macro is used in the same way as siglongjmp(), but will invoke
?C: traditional longjmp() if siglongjmp isn't available.
?C: See HAS_SIGSETJMP.
?C:.
?H:?%<:#$d_sigsetjmp HAS_SIGSETJMP /**/
?H:?%<:#ifdef HAS_SIGSETJMP
?H:?%<:#define Sigjmp_buf sigjmp_buf
?H:?%<:#define Sigsetjmp(buf,save_mask) sigsetjmp((buf),(save_mask))
?H:?%<:#define
 Siglongjmp(buf,retval) siglongjmp((buf),(retval))
?H:?%<:#else
?H:?%<:#define Sigjmp_buf jmp_buf
?H:?%<:#define Sigsetjmp(buf,save_mask) setjmp((buf))
?H:?%<:#define Siglongjmp(buf,retval) longjmp((buf),(retval))
?H:?%<:#endif
?H:.
?W:%<:Sigjmp_buf Sigsetjmp Siglongjmp
?F:!set
?LINT:set d_sigsetjmp
: see if sigsetjmp exists
?X: We can't check for these symbols with Inlibc because sigsetjmp
?X: is (sometimes? always?) a macro under GCC
echo " "
case "$d_sigsetjmp" in
")
 $cat >set.c <<'EOP'
#include <setjmp.h>
sigjmp_buf env;
int set = 1;
int main()
{
 if (sigsetjmp(env,1))
  exit(set);
 set = 0;
 siglongjmp(env, 1);
 exit(1);
}
EOP
 if $cc $ccflags $ldflags -o set set.c $libs > /dev/null 2>&1 ; then
  if ./set >/dev/null 2>&1; then
   echo "POSIX sigsetjmp found." >&4
   val="$define"
  else
   $cat >&4 <<EOM
Uh-Oh! You have POSIX sigsetjmp and siglongjmp, but they do not work properly!!
I'll ignore them.
EOM
```

```
  val="$undef"
  fi
 else
  echo "sigsetjmp not found."
 >&4
  val="$undef"
 fi
 ;;
*) val="$d_sigsetjmp"
 case "$d_sigsetjmp" in
 $define) echo "POSIX sigsetjmp found." >&4;;
 $undef) echo "sigsetjmp not found." >&4;;
 esac
 ;;
esac
set d_sigsetjmp
eval $setvar
$rm -f set.c set
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sigsetjmp.U
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```
?RCS: $Id: byteorder.U,v 3.0.1.2 1997/02/28 15:24:55 ram Exp $
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?RCS:
?RCS: $Log: byteorder.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:24:55  ram
?RCS: patch61: no longer ask the user if the test runs ok
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:02:58  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:28  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:byteorder: cat Myread Oldconfig Loc Compile rm_try run \
 multiarch uvtype uvsize i_stdlib
?MAKE: -pick add $@ %<
?S:byteorder:
```

```
?S: This
 variable holds the byte order in a UV. In the following,
?S: larger digits indicate more significance.  The variable byteorder
?S: is either 4321 on a big-endian machine, or 1234 on a little-endian,
?S: or 87654321 on a Cray ... or 3412 with weird order !
?S:.
?C:BYTEORDER:
?C: This symbol holds the hexadecimal constant defined in byteorder,
?C: in a UV, i.e. 0x1234 or 0x4321 or 0x12345678, etc...
?C: If the compiler supports cross-compiling or multiple-architecture
?C: binaries, use compiler-defined macros to
?C: determine the byte order.
?C:.
?H:?%<:#if defined(MULTIARCH)
?H:?%<:#  ifdef __LITTLE_ENDIAN__
?H:?%<:#    if LONGSIZE == 4
?H:?%<:#      define BYTEORDER 0x1234
?H:?%<:#    else
?H:?%<:#      if LONGSIZE == 8
?H:?%<:#        define BYTEORDER 0x12345678
?H:?%<:#      endif
?H:?%<:#    endif
?H:?%<:#  else
?H:?%<:#    ifdef __BIG_ENDIAN__
?H:?%<:#      if LONGSIZE == 4
?H:?%<:#        define BYTEORDER 0x4321
?H:?%<:#      else
?H:?%<:#        if LONGSIZE
 == 8
?H:?%<:#          define BYTEORDER 0x87654321
?H:?%<:#        endif
?H:?%<:#      endif
?H:?%<:#    endif
?H:?%<:#  endif
?H:?%<:#else
?H:?%<:#define BYTEORDER 0x$byteorder /* large digits for MSB */
?H:?%<:#endif
?H:.
?T:xxx_prompt
?F:!try
: check for ordering of bytes in a UV
echo " "
case "$multiarch" in
*$define*)
 $cat <<EOM
You seem to be doing a multiarchitecture build,
skipping the byteorder check.
```

```
EOM
 byteorder='ffff'
 ;;
*)
 case "$byteorder" in
 ")
  $cat <<'EOM'
In the following, larger digits indicate more significance.  A big-endian
machine like a Pyramid or a Motorola 680?0 chip will come out to 4321. A
little-endian machine like a Vax or an Intel 80?86 chip would be 1234. Other
machines may have weird orders like 3412.  A Cray will report 87654321,
an Alpha will report 12345678. If the test program works the default is
probably right.
I'm now running the test program...
EOM
  $cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include
 <sys/types.h>
typedef $uvtype UV;
int main()
{
 int i;
 union {
  UV l;
  char c[$uvsize];
 } u;

 if ($uvsize > 4)
  u.l = (((UV)0x08070605) << 32) | (UV)0x04030201;
 else
  u.l = (UV)0x04030201;
 for (i = 0; i < $uvsize; i++)
  printf("%c", u.c[i]+'0');
 printf("\n");
 exit(0);
}
EOCP
  xxx_prompt=y
  set try
  if eval $compile && $run ./try > /dev/null; then
   dflt=`$run ./try`
   case "$dflt" in
   [1-4][1-4][1-4][1-4]|12345678|87654321)
```

```
    echo "(The test program ran ok.)"
    echo "byteorder=$dflt"
    xxx_prompt=n
   ;;
   ????|????????) echo "(The test program ran ok.)" ;;
   *) echo "(The test program didn't run right for some reason.)" ;;
   esac
  else
   dflt='4321'
   cat <<'EOM'
(I can't seem to compile the test program.  Guessing big-endian...)
EOM
  fi
  case "$xxx_prompt" in
  y)
   rp="What is the order of bytes in $uvtype?"
   . ./myread
   byteorder="$ans"
   ;;
  *) byteorder=$dflt
   ;;
  esac
  ;;
 esac
 $rm_try
 ;;
esac
```

Found in path(s):
*
 /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/byteorder.U
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```
?RCS: $Id: d_gethostprotos.U,v $
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_gethostprotos : Hasproto i_netdb
?MAKE: -pick add $@ %<
?S:d_gethostprotos:
?S: This variable conditionally defines the HAS_GETHOST_PROTOS symbol,
```

```
?S: which indicates to the C program that <netdb.h> supplies
?S: prototypes for the various gethost*() functions.
?S: See also netdbtype.U for probing for various netdb types.
?S:.
?C:HAS_GETHOST_PROTOS:
?C: This symbol, if defined, indicates that <netdb.h> includes
?C: prototypes for gethostent(), gethostbyname(), and
?C: gethostbyaddr().  Otherwise,
 it is up to the program to guess
?C: them.  See netdbtype.U for probing for various Netdb_xxx_t types.
?C:.
?H:#$d_gethostprotos HAS_GETHOST_PROTOS /**/
?H:.
?LINT:set d_gethostprotos
?X: This test actually only checks for gethostent() and assumes the
?X: others follow suit.  This test fails for ChorusOS, which has
?X: gethostbyname and gethostbyaddr, but not gethostent.
: see if prototypes for various gethostxxx netdb.h functions are available
echo " "
set d_gethostprotos gethostent $i_netdb netdb.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/d_gethostprotos.U
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```
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?RCS:
?MAKE:default_inc_excludes_dot: Myread cat
?MAKE: -pick add $@ %<
?S:default_inc_excludes_dot:
?S: When defined, remove the legacy '.' from @INC
?S:.
?C:DEFAULT_INC_EXCLUDES_DOT:
?C: This symbol, if defined, removes the legacy default behavior of
?C: including '.' at the end of @INC.
?C:.
?H:#$default_inc_excludes_dot DEFAULT_INC_EXCLUDES_DOT /**/
?H:.
: Include . in @INC
$cat <<EOM
```

```
Historically Perl has provided a final fallback of the current working
directory '.' when searching for a library. This, however, can lead to
problems when a Perl program which loads optional modules is called from
a shared directory. This can lead to executing unexpected code.

EOM

# When changing to exclude by
 default:
case "$default_inc_excludes_dot" in
   $undef|false|[nN]*) dflt="n" ;;
   *)                  dflt="y" ;;
esac
# To turn exclude off by default:
#case "$default_inc_excludes_dot" in
#    $define|true|[yY]*) dflt="y" ;;
#    *)                  dflt="n" ;;
#esac

rp='Exclude '.' from @INC by default? '
. ./myread
case "$ans" in
   [nN]|undef) default_inc_excludes_dot="$undef"  ;;
   *)         default_inc_excludes_dot="$define" ;;
esac

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-
5.34.0/U/perl/defaultincdot.U
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?RCS: $Id: cpp_trad.U 1 2006-08-24 12:32:52Z rmanfredi $
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?RCS:
?RCS: $Log: cpp_stuff.U,v $
?MAKE:cpp_trad: cpp cat contains rm
?MAKE: -pick add $@ %<
?S:cpp_trad:
?S: This variable contains the program to run to get traditional C
?S: preprocessor semantics and not ISO C semantics: we want something
?S: that knows as little about C as possible to use as a more general
```

```
?S: purpose preprocessor.
?S:.
?F:!foo.c !foo.cpp
: how do we get traditional cpp semantics?
echo " "
echo "Checking to see how to get traditional cpp semantics..."
 >&4
$cat >foo.c <<'EOF'
#define A(x) x
#define B(y) y
A(a)B(b)
EOF
if $cpp foo.c >foo.cpp; $contains ab foo.cpp >/dev/null 2>&1; then
 echo "Plain '$cpp' works just fine."
 cpp_trad="$cpp"
elif $cpp -traditional foo.c >foo.cpp; \
 $contains ab foo.cpp >/dev/null 2>&1; then
 echo "We'll use '$cpp -traditional' to get proper semantics."
 cpp_trad="$cpp -traditional"
else
 echo "I don't know how to get traditional semantics with '$cpp'." >&4
 cpp_trad="$cpp"
fi
$rm -f foo.c foo.cpp
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/cpp_trad.U
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```
?RCS: $Id: filexp.U 1 2006-08-24 12:32:52Z rmanfredi $
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?RCS:
?RCS: $Log: filexp.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:filexp: privlib
?MAKE: -pick add $@ %<
?S:filexp:
?S: This symbol contains the full pathname of the filexp script, in case we
```

```
?S: are saving the script for posterity.
?S:.
: must not allow self reference
case "$privlib" in
 /*)
 filexp=$privlib/filexp
 ;;
 *)
 filexp=`pwd`/filexp
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/filexp_path.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:ilp d_ilp32 d_ilp64 d_lp64 d_can64: Assert Myread Setvar \
 cat rm +cc +ccflags echo n c intsize longsize ptrsize
?MAKE: -pick add $@ %<
?S:ilp:
?S: This variable contains the largest amount of bits that the CPU supports,
?S: from the compiler's point of view.  Typically 32 or 64.
?S:.
?S:d_ilp32:
?S: This variable conditionally defines the CPU_IS_ILP32.
?S:.
?S:d_ilp64:
?S: This variable conditionally defines the CPU_IS_ILP64.
?S:.
?S:d_lp64:
?S: This variable conditionally defines the CPU_IS_LP64.
?S:.
?S:d_can64:
?S: This variable
 conditionally defines CAN_HANDLE_64BITS.
?S:.
?C:CPU_ILP_MAXBITS:
?C: This symbol contains the largest amount of bits that the CPU natively
```

```
?C: supports from the compiler's point of view.  Typically 32 or 64.
?C:.
?C:CPU_IS_ILP32:
?C: When defined, this indicates that the integer, long and pointer variables
?C: hold 32-bit values.
?C:.
?C:CPU_IS_ILP64:
?C: When defined, this indicates that the integer, long and pointer variables
?C: hold 64-bit values.
?C:.
?C:CPU_IS_LP64:
?C: When defined, this indicates that the long and pointer variables hold
?C: 64-bit values but integers are smaller (probably only 32-bit wide).
?C:.
?C:CAN_HANDLE_64BITS:
?C: When defined, this indicates that the compiler can handle 64-bit values
?C: despite the CPU having only 32-bit registers.  These are available using
?C: the "long long" C type.  It is only defined for ILP32 machines, since
?C: 64-bit support is naturally available on ILP64 and LP64 machines.
?C:.
?H:#define CPU_ILP_MAXBITS $ilp
?H:#$d_ilp32
 CPU_IS_ILP32 /**/
?H:#$d_ilp64 CPU_IS_ILP64 /**/
?H:#$d_lp64 CPU_IS_LP64  /**/
?H:#$d_can64 CAN_HANDLE_64BITS /**/
?H:.
?LINT: set d_ilp32 d_ilp64 d_lp64 d_can64
: check for architecture type
echo " "
$echo $n "Computing CPU architecture type...$c" >&4
ilp=`expr $longsize \* 8`
case "$ptrsize" in
8)
 val=$undef; set d_ilp32; eval $setvar
 case "$intsize" in
 8)
  echo " ILP64." >&4
  val=$define; set d_ilp64; eval $setvar
  val=$undef; set d_lp64; eval $setvar
  ;;
 *)
  echo " LP64." >&4
  val=$define; set d_lp64; eval $setvar
  val=$undef; set d_ilp64; eval $setvar
  ;;
 esac
 ;;
```

```
*)
 echo " ILP${ilp}." >&4
 case "$ilp" in
 32) val=$define;;
 *) val=$undef;;
 esac
 set d_ilp32; eval $setvar
 val=$undef; set d_ilp64; eval $setvar
 val=$undef; set d_lp64; eval $setvar
 ;;
esac

@if CAN_HANDLE_64BITS || d_can64
: see whether compiler supports 64-bit emulation
val=$undef
case "$ilp" in
64) val=$define;;
*)
 $cat >try.c <<EOCP
#include "static_assert.h"
long long foo;
int main()
{
 STATIC_ASSERT(8
 == sizeof(foo));
 return 0;
}
EOCP
 if $cc -c $ccflags try.c >/dev/null 2>&1; then
  echo " "
  echo "Your compiler also supports 64-bit emulation." >&4
  val=$define
 fi
 $rm -f try.*
 ;;
esac
set d_can64
eval $setvar

@end
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/ilp.U
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?RCS: $Id: d_fd_set.U,v 3.0.1.3 1997/02/28 15:33:16 ram Exp $
?RCS:

```
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?RCS:
?RCS: $Log: d_fd_set.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:33:16  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20  06:57:23  ram
?RCS: patch30: extended scope for fd_set checks (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:06:27  ram
?RCS: patch16: comments for HAS_FD_* symbols were not consistent
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_fd_set d_fd_macros
 d_fds_bits: Compile cat rm_try Oldconfig \
 d_socket i_systime i_sysselct i_stdlib run
?MAKE: -pick add $@ %<
?S:d_fd_set:
?S: This variable contains the eventual value of the HAS_FD_SET symbol,
?S: which indicates if your C compiler knows about the fd_set typedef.
?S:.
?S:d_fd_macros:
?S: This variable contains the eventual value of the HAS_FD_MACROS symbol,
?S: which indicates if your C compiler knows about the macros which
?S: manipulate an fd_set.
?S:.
?S:d_fds_bits:
?S: This variable contains the eventual value of the HAS_FDS_BITS symbol,
?S: which indicates if your fd_set typedef contains the fds_bits member.
?S: If you have an fd_set typedef, but the dweebs who installed it did
?S: a half-fast job and neglected to provide the macros to manipulate
?S: an fd_set, HAS_FDS_BITS will let us know how to fix the gaffe.
?S:.
?C:HAS_FD_SET:
?C: This symbol, when defined, indicates presence of the fd_set typedef
?C: in <sys/types.h>
?C:.
?C:HAS_FD_MACROS:
?C: This symbol, when defined,
```

```
  indicates presence of the macros used to
?C: manipulate an fd_set.
?C:.
?C:HAS_FDS_BITS:
?C: This symbol, when defined, indicates presence of the fds_bits member in
?C: fd_set.  This knowledge is useful if fd_set is available but the macros
?C: aren't.
?C:.
?H:#$d_fd_set HAS_FD_SET /**/
?H:#$d_fd_macros HAS_FD_MACROS /**/
?H:#$d_fds_bits HAS_FDS_BITS /**/
?H:.
?F:!try
: check for fd_set items
$cat <<EOM

Checking to see how well your C compiler handles fd_set and friends ...
EOM
?X: The FD_SET macros can be in strange places.  On some SysV-based
?X: systems, they are in <sys/bsdtypes.h>, which is included (perhaps)
?X: by <sys/socket.h>.  We won't force people to include
?X: <sys/bsdtypes.h> because it might introduce other
?X: incompatibilities.
$cat >try.c <<EOCP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_systime I_SYS_TIME
#$i_sysselct I_SYS_SELECT
#$d_socket HAS_SOCKET
#include <sys/types.h>
#ifdef HAS_SOCKET
#include <sys/socket.h> /* Might include <sys/bsdtypes.h>
 */
#endif
#ifdef I_SYS_TIME
#include <sys/time.h>
#endif
#ifdef I_SYS_SELECT
#include <sys/select.h>
#endif
int main() {
 fd_set fds;

#ifdef TRYBITS
 if(fds.fds_bits);
#endif
```

```
#if defined(FD_SET) && defined(FD_CLR) && defined(FD_ISSET) && defined(FD_ZERO)
 exit(0);
#else
 exit(1);
#endif
}
EOCP
set try -DTRYBITS
if eval $compile; then
 d_fds_bits="$define"
 d_fd_set="$define"
 echo "Well, your system knows about the normal fd_set typedef..." >&4
 if $run ./try; then
  echo "and you have the normal fd_set macros (just as I'd expect)." >&4
  d_fd_macros="$define"
 else
  $cat >&4 <<'EOM'
but not the normal fd_set macros!  Gaaack!  I'll have to cover for you.
EOM
  d_fd_macros="$undef"
 fi
else
 $cat <<'EOM'
Hmm, your compiler has some difficulty with fd_set.  Checking further...
EOM
 set try
 if eval $compile; then
  d_fds_bits="$undef"
  d_fd_set="$define"
  echo "Well, your system has some sort of fd_set available..." >&4
  if $run ./try; then
   echo "and you have the normal
 fd_set macros." >&4
   d_fd_macros="$define"
  else
   $cat <<'EOM'
but not the normal fd_set macros!  Gross!  More work for me...
EOM
   d_fd_macros="$undef"
  fi
 else
 echo "Well, you got zip.  That's OK, I can roll my own fd_set stuff." >&4
  d_fd_set="$undef"
  d_fds_bits="$undef"
  d_fd_macros="$undef"
 fi
fi
```

$rm_try

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_fd_set.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: spitshell.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: spitshell.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  16:22:12  ram
?RCS: patch61: removed useless chatter as this is now done very early
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:37:01  ram
?RCS: patch45: use 'test -f' instead of 'test -r' for exec-only cat progs (WED)
?RCS: patch45: protected "sh -c" within backquotes for Linux and SGI
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:33:00  ram
?RCS: patch32: don't create spitshell under the UU directory
?RCS:
 patch32: allow for cat in /bin or /usr/bin
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:12:58  ram
?RCS: patch10: made #!-failure message more friendly (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:49  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:spitshell shsharp sharpbang: eunicefix sh Head
?MAKE: -pick add $@ %<
?S:spitshell:
?S: This variable contains the command necessary to spit out a runnable
?S: shell on this system.  It is either cat or a grep -v for # comments.
?S:.
?S:shsharp:
?S: This variable tells further Configure units whether your sh can
?S: handle # comments.
?S:.
?S:sharpbang:
?S: This variable contains the string #! if this system supports that
```

```
?S: construct.
?S:.
?F:!sharp
?T:xcat p
?X: "paths" comes from Head
?LINT:extern paths _exe
: see if sh knows # comments
?X: This is loaded up early, so avoid being chatty.
?X: echo " "
?X: echo "Checking your $sh to see if it knows about # comments..." >&2
if `$sh -c '#' >/dev/null 2>&1`; then
?X: echo
 "Your $sh handles # comments correctly."
 shsharp=true
 spitshell=cat
?X: echo " "
?X: echo "Okay, let's see if #! works on this system..."
 xcat=/bin/cat
 test -f $xcat$_exe || xcat=/usr/bin/cat
 if test ! -f $xcat$_exe; then
  for p in `echo $PATH | sed -e "s/$p_/ /g"` $paths; do
   if test -f $p/cat$_exe; then
    xcat=$p/cat
    break
   fi
  done
  if test ! -f $xcat$_exe; then
   echo "Can't find cat anywhere!"
   exit 1
  fi
 fi
 echo "#!$xcat" >sharp
 $eunicefix sharp
 chmod +x sharp
 ./sharp > today 2>/dev/null
 if test -s today; then
?X:  echo "It does."
  sharpbang='#!'
 else
  echo "#! $xcat" > sharp
  $eunicefix sharp
  chmod +x sharp
  ./sharp > today 2>/dev/null
  if test -s today; then
?X:   echo "It does."
   sharpbang='#! '
  else
?X:   echo "Okay, let's see if #! works on this system..."
```

```
?X:   echo "It's just a comment."
   sharpbang=': use '
  fi
 fi
else
 echo " "
 echo "Your $sh doesn't grok # comments--I will strip them later on."
 shsharp=false
?X: The
 spitshell script will be perused, so leave it out the UU directory
 cd ..
 echo "exec grep -v '^[  ]*#'" >spitshell
 chmod +x spitshell
 $eunicefix spitshell
 spitshell=`pwd`/spitshell
 cd UU
 echo "I presume that if # doesn't work, #! won't work either!"
 sharpbang=': use '
fi
rm -f sharp today
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/spitshell.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_mkstemps: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkstemps:
?S: This variable conditionally defines the HAS_MKSTEMPS symbol, which
?S: indicates to the C program that the mkstemps() routine is available
?S: to exclusively create and open a uniquely named (with a suffix)
?S: temporary file.
?S:.
?C:HAS_MKSTEMPS :
?C: This symbol, if defined, indicates that the mkstemps routine is
?C: available to exclusively create and open a uniquely named
?C: (with a suffix) temporary file.
?C:.
?H:#$d_mkstemps HAS_MKSTEMPS  /**/
?H:.
```

```
?LINT:set d_mkstemps
: see if mkstemps exists
set mkstemps d_mkstemps
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_mkstemps.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Instruct.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:02:55  ram
?RCS: patch61: logname / whoami sequence rewritten to use case
?RCS:
?RCS: Revision 3.0.1.2  1995/02/15  14:11:34  ram
?RCS: patch51: author name now appears at the end of the paragraph (WED)
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:12:05  ram
?RCS: patch45: now documents the & escape to turn -d on at the read prompt
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X:
 This unit spew out the directions that we want everyone to read.  I try to
?X: keep the first "pagefull" much less than a page since they don't know it
?X: isn't going to go shooting off the top of the screen, and we don't want
?X: to panic them yet.
?X:
?MAKE:Instruct: Begin Myread Configdir contains
?MAKE: -pick wipe $@ %<
?T:user needman firsttime
: general instructions
needman=true
firsttime=true
user=`(logname) 2>/dev/null`
case "$user" in
```

```
") user=`whoami 2>&1`;;
esac
if $contains "^$user\$" ../.config/instruct >/dev/null 2>&1; then
 firsttime=false
 echo " "
 rp='Would you like to see the instructions?'
 dflt=n
 . ./myread
 case "$ans" in
 [yY]*) ;;
 *) needman=false;;
 esac
fi
if $needman; then
 cat <<EOH

This installation shell script will examine your system and ask you questions
to determine how the <PACKAGENAME> package should be installed. If you get
stuck on a question, you may use a ! shell escape to start a subshell or
execute a command.  Many of the questions will have
 default answers in square
brackets; typing carriage return will give you the default.

On some of the questions which ask for file or directory names you are allowed
to use the ~name construct to specify the login directory belonging to "name",
even if you don't have a shell which knows about that.  Questions where this is
allowed will be marked "(~name ok)".

EOH
 rp="
 dflt='Type carriage return to continue'
 . ./myread
 cat <<'EOH'

The prompter used in this script allows you to use shell variables and
backticks in your answers.  You may use $1, $2, etc...  to refer to the words
in the default answer, as if the default line was a set of arguments given to a
script shell.  This means you may also use $* to repeat the whole default line,
so you do not have to re-type everything to add something to the default.

Everytime there is a substitution, you will have to confirm.  If there is an
error (e.g. an unmatched backtick), the default answer will remain unchanged
and you will be prompted
 again.

If you are in a hurry, you may run 'Configure -d'.  This will bypass nearly all
the questions and use the computed defaults (or the previous answers if there
was already a config.sh file). Type 'Configure -h' for a list of options.
```

```
You may also start interactively and then answer '& -d' at any prompt to turn
on the non-interactive behaviour for the remainder of the execution.

EOH
 . ./myread
 cat <<EOH

Much effort has been expended to ensure that this shell script will run on any
Unix system.  If despite that it blows up on yours, your best bet is to edit
Configure and run it again.  If you can't run Configure for some reason,
you'll have to generate a config.sh file by hand.  Whatever problems you
have, let me (<MAINTLOC>) know how I blew it.

This installation script affects things in two ways:

1) it may do direct variable substitutions on some of the files included
  in this kit.
2) it builds a config.h file for inclusion in C programs.  You may edit
  any of these
 files as the need arises after running this script.

If you make a mistake on a question, there is no easy way to back up to it
currently.  The easiest thing to do is to edit config.sh and rerun all the SH
files.  Configure will offer to let you do this before it runs the SH files.

EOH
?X: In case they played with the prompter...
 dflt='Type carriage return to continue'
 . ./myread
 case "$firsttime" in
 true) echo $user >>../.config/instruct;;
 esac
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Instruct.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_preadv.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: d_preadv.U,v $
?RCS:
?MAKE:d_preadv: Inlibc
?MAKE: -pick add $@ %<
?S:d_preadv:
?S: This variable conditionally defines the HAS_PREADV symbol, which
?S: indicates to the C program that the preadv() routine is available.
?S:.
?C:HAS_PREADV :
?C: This symbol, if defined, indicates that the preadv routine is
?C: available to perform vectored reads on a file descriptor at a
?C: given offset.
?C:.
?H:#$d_preadv HAS_PREADV  /**/
?H:.
?LINT:set d_preadv
:
 see if preadv exists
set preadv d_preadv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_preadv.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: setsid.C,v 3.0.1.1 1994/01/24 13:58:47 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* $Log: setsid.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:47  ram
* patch16: created
*
*/
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/setsid.C

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorman3dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999-2000, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorman3dir.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorman3dir vendorman3direxp installvendorman3dir: man3dir Getfile \
 Oldconfig Setprefixvar Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorman3dir:
?S: This variable contains the name of the directory for man3
?S: pages.  It may have a ~ on the front.
?S: The standard distribution will put nothing in this directory.
?S: Vendors
 who distribute perl may wish to place their own
?S: man3 pages in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorman3direxp:
?S: This variable is the ~name expanded version of vendorman3dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorman3dir="
?S:installvendorman3dir:
?S: This variable is really the same as vendorman3direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorman3dir
: Set the vendorman3dir variables
case "$vendorprefix" in
") vendorman3dir="
 vendorman3direxp="
 ;;
*) : determine where vendor-supplied module manual pages go.
```

```
 case "$vendorman3dir" in
 ") dflt=`echo "$man3dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
 *) dflt=$vendorman3dir ;;
 esac
 case "$dflt" in
 "|' ') dflt=none ;;
 esac
 fn=nd~+
 rp='Pathname
 for the vendor-supplied manual section 3 pages?'
 . ./getfile
 vendorman3dir="$ans"
 vendorman3direxp="$ansexp"
 ;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorman3dir" = "X" && vendorman3dir=' '
prefixvar=vendorman3dir
. ./installprefix
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/vendorman3dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ctermid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_ctermid.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_ctermid: Inlibc
?MAKE: -pick add $@ %<
?S:d_ctermid:
?S: This variable conditionally defines CTERMID if ctermid() is
?S: available to generate filename for terminal.
?S:.
?C:HAS_CTERMID (CTERMID):
?C: This symbol, if defined, indicates that the ctermid routine is
?C: available to generate filename for terminal.
```

```
?C:.
?H:#$d_ctermid
 HAS_CTERMID  /**/
?H:.
?LINT:set d_ctermid
: see if ctermid exists
set ctermid d_ctermid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_ctermid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: randbits.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:19:29  ram
?RCS: patch61: added <unistd.h> and <stdlib.h> to the C program test
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:38  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit has been somewhat made obsolete with creation of the
?X: randfunc function (which finds out how to generate random
?X: numbers between 0 and 1.
?X:
?MAKE:randbits: cat rm Myread cc i_unistd i_stdlib
?MAKE: -pick add $@ %<
?S:randbits:
?S: This
 variable contains the eventual value of the RANDBITS symbol,
?S: which indicates to the C program how many bits of random number
?S: the rand() function produces.
?S:.
?C:RANDBITS:
?C: This symbol contains the number of bits of random number the rand()
?C: function produces.  Usual values are 15, 16, and 31.
?C:.
```

```
?H:#define RANDBITS $randbits  /**/
?H:.
: check for size of random number generator
echo " "
case "$randbits" in
")
 echo "Checking to see how many bits your rand function produces..." >&4
 $cat >try.c <<EOCP
#$i_unistd I_UNISTD
#$i_stdlib I_STDLIB
#include <stdio.h>
#ifdef I_UNISTD
#  include <unistd.h>
#endif
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
EOCP
 $cat >>try.c <<'EOCP'
int main()
{
 register int i;
 register unsigned long tmp;
 register unsigned long max = 0L;

 for (i = 1000; i; i--) {
  tmp = (unsigned long)rand();
  if (tmp > max) max = tmp;
 }
 for (i = 0; max; i++)
  max /= 2;
 printf("%d\n",i);
}
EOCP
 if $cc -o try try.c >/dev/null 2>&1 ; then
  dflt=`try`
 else
  dflt='?'
  echo
 "(I can't seem to compile the test program...)"
 fi
 ;;
*)
 dflt="$randbits"
 ;;
esac
rp='How many bits does your rand() function produce?'
. ./myread
```

```
randbits="$ans"
$rm -f try.c try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/randbits.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_longlong.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_longlong.U,v $
?RCS:
?MAKE:d_longlong longlongsize: Compile Setvar Myread run \
 cat rm_try test longsize
?MAKE: -pick add $@ %<
?S:d_longlong:
?S: This variable conditionally defines HAS_LONG_LONG if
?S: the long long type is supported.
?S:.
?S:longlongsize:
?S: This variable contains the value of the LONGLONGSIZE symbol, which
?S: indicates to the C program how many bytes there are in a long long,
?S: if this system supports long long.
?S:.
?C:HAS_LONG_LONG:
?C: This symbol will be defined if the C compiler supports long long.
?C:.
?C:LONGLONGSIZE:
?C: This symbol contains the size of a long long, so that the
?C: C preprocessor can make decisions based on it.  It is only
?C: defined
 if the system supports long long.
?C:.
?H:#$d_longlong HAS_LONG_LONG  /**/
?H:?LONGLONGSIZE:#ifdef HAS_LONG_LONG
?H:?LONGLONGSIZE:#define LONGLONGSIZE $longlongsize  /**/
?H:?LONGLONGSIZE:#endif
?H:.
?F:!try
?LINT:set d_longlong
: check for long long
echo " "
echo "Checking to see if you have long long..." >&4
```

```
echo 'int main() { long long x = 7; return 0; }' > try.c
set try
if eval $compile; then
 val="$define"
 echo "You have long long."
else
 val="$undef"
 echo "You do not have long long."
fi
$rm_try
set d_longlong
eval $setvar

@if LONGLONGSIZE || longlongsize
: check for length of long long
?X:  Check only if d_longlong and if longlongsize is not already set.
case "${d_longlong}${longlongsize}" in
$define)
 echo " "
 echo "Checking to see how big your long longs are..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
   printf("%d\n", (int)sizeof(long long));
   return(0);
}
EOCP
 set try
 if eval $compile_ok; then
  longlongsize=`$run ./try`
  echo "Your long
 longs are $longlongsize bytes long."
 else
  dflt='8'
  echo " "
  echo "(I can't seem to compile the test program.  Guessing...)"
  rp="What is the size of a long long (in bytes)?"
  . ./myread
  longlongsize="$ans"
 fi
 if $test "X$longsize" = "X$longlongsize"; then
  echo "(That isn't any different from an ordinary long.)"
 fi
 ;;
esac
$rm_try
@end
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_longlong.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_mkstemp.U,v 3.0.1.1 1994/08/29 16:11:57 ram Exp $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_mkstemp.U,v $
?RCS:
?MAKE:d_mkstemp: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkstemp:
?S: This variable conditionally defines the HAS_MKSTEMP symbol, which
?S: indicates to the C program that the mkstemp() routine is available
?S: to exclusively create and open a uniquely named temporary file.
?S:.
?C:HAS_MKSTEMP :
?C: This symbol, if defined, indicates that the mkstemp routine is
?C: available to exclusively create and open a uniquely named
?C: temporary file.
?C:.
?H:#$d_mkstemp HAS_MKSTEMP  /**/
?H:.
?LINT:set d_mkstemp
: see if mkstemp exists
set mkstemp d_mkstemp
eval
 $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_mkstemp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Inhdr.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Inhdr.U,v $
?RCS: Revision 3.0.1.2  1995/05/12  12:01:31  ram
?RCS: patch54: deleted tabs that caused some /bin/sh to core dump (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:55:01  ram
?RCS: patch36: call ./whoa explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit checks wether a set of header files exists or not.
?X: If the first header is not
 found, the function tries to locate
?X: the next header, and so on, until one is found or there is no
?X: more header in the list.
?X:
?X: To use it, say:
?X: set header i_header [ header2 i_header2 ... ]
?X: eval $inhdr
?X:
?MAKE:Inhdr: test Findhdr Whoa
?MAKE: -pick add $@ %<
?LINT:define inhdr
?V:inhdr
?S:inhdr:
?S: This shell variable is used internally by Configure to check
?S: wether a set of headers exist or not. A typical use is:
?S:  set header i_header [ header2 i_header2 ... ]
?S:  eval $inhdr
?S: That will print a message, saying wether header was found or not
?S: and set i_header* accordingly. If the first header is not found,
?S: we try the next one, until the list is empty or one is found.
?S:.
?T:xxx xxf var td xxnf tu yyy instead was cont
: define an alternate in-header-list? function
inhdr='echo " "; td=$define; tu=$undef; yyy=$@;
cont=true; xxf="echo \"<\$1> found.\" >&4";
case $# in 2) xxnf="echo \"<\$1> NOT found.\" >&4";;
*) xxnf="echo \"<\$1> NOT found, ...\" >&4";;
esac;
case
 $# in 4) instead=instead;; *) instead="at last";; esac;
while $test "$cont"; do
```

```
 xxx=`./findhdr $1`
 var=$2; eval "was=\$$2";
 if $test "$xxx" && $test -r "$xxx";
 then eval $xxf;
?X: Next line shifted left 1 tabstop to avoid sh core dump on MachTen 2.1.1.
 eval "case \"\$$var\" in $undef) . ./whoa; esac"; eval "$var=\$td";
  cont="";
 else eval $xxnf;
?X: Likewise, the next line has been shifted left 1 tabstop -- ADO, 08/03/95
 eval "case \"\$$var\" in $define) . ./whoa; esac"; eval "$var=\$tu"; fi;
 set $yyy; shift; shift; yyy=$@;
 case $# in 0) cont="";;
 2) xxf="echo \"but I found <\$1> $instead.\" >&4";
  xxnf="echo \"and I did not find <\$1> either.\" >&4";;
 *) xxf="echo \"but I found <\$1\> instead.\" >&4";
  xxnf="echo \"there is no <\$1>, ...\" >&4";;
 esac;
done;
?X: Remaining values are set to 'undef'
while $test "$yyy";
do set $yyy; var=$2; eval "was=\$$2";
 eval "case \"\$$var\" in $define) . ./whoa; esac"; eval "$var=\$tu";
 set $yyy; shift; shift; yyy=$@;
done'
```

Found
 in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Inhdr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strtol.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strtol.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strtol: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtol:
```

```
?S: This variable conditionally defines the HAS_STRTOL symbol, which
?S: indicates to the C program that the strtol() routine is available
?S: to provide better numeric string conversion than atoi() and friends.
?S:.
?C:HAS_STRTOL (STRTOL):
?C: This symbol, if defined, indicates that
 the strtol routine is available
?C: to provide better numeric string conversion than atoi() and friends.
?C:.
?H:#$d_strtol HAS_STRTOL /**/
?H:.
?LINT:set d_strtol
: see if strtol exists
set strtol d_strtol
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strtol.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: cppstdin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cppstdin.U,v $
?RCS: Revision 3.0.1.4  1994/10/29  16:08:34  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.3  1994/01/24  14:05:38  ram
?RCS: patch16: comment for CPPLAST was missing
?RCS:
?RCS: Revision 3.0.1.2  1993/12/15  08:18:58  ram
?RCS: patch15: new variables cpprun and cpplast, guaranteed wrapper-free
?RCS: patch15: cppstdin now tries to use cc, even at the cost of a wrapper
?RCS:
?RCS: Revision 3.0.1.1
  1993/08/25  14:00:53  ram
?RCS: patch6: remove wrapper when not actually used
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:38  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?MAKE:cppstdin cppminus cpprun cpplast: contains test \
 Myread Oldconfig Loc cpp +cc rm hint osname gccversion
?MAKE: -pick add $@ %<
?S:cppstdin:
?S: This variable contains the command which will invoke the C
?S: preprocessor on standard input and put the output to stdout.
?S: It is primarily used by other Configure units that ask about
?S: preprocessor symbols.
?S:.
?S:cppminus:
?S: This variable contains the second part of the string which will invoke
?S: the C preprocessor on the standard input and produce to standard
?S: output.  This variable will have the value "-" if cppstdin needs
?S: a minus to specify standard input, otherwise the value is "".
?S:.
?S:cpprun:
?S: This variable contains the command which will invoke a C preprocessor
?S: on standard input and put the output to stdout. It is guaranteed
 not
?S: to be a wrapper and may be a null string if no preprocessor can be
?S: made directly available. This preprocessor might be different from the
?S: one used by the C compiler. Don't forget to append cpplast after the
?S: preprocessor options.
?S:.
?S:cpplast:
?S: This variable has the same functionality as cppminus, only it applies
?S: to cpprun and not cppstdin.
?S:.
?C:CPPSTDIN:
?C: This symbol contains the first part of the string which will invoke
?C: the C preprocessor on the standard input and produce to standard
?C: output.  Typical value of "cc -E" or "/lib/cpp", but it can also
?C: call a wrapper. See CPPRUN.
?C:.
?C:CPPMINUS:
?C: This symbol contains the second part of the string which will invoke
?C: the C preprocessor on the standard input and produce to standard
?C: output.  This symbol will have the value "-" if CPPSTDIN needs a minus
?C: to specify standard input, otherwise the value is "".
?C:.
?C:CPPRUN:
?C: This symbol contains the string which will invoke
 a C preprocessor on
?C: the standard input and produce to standard output. It needs to end
?C: with CPPLAST, after all other preprocessor flags have been specified.
?C: The main difference with CPPSTDIN is that this program will never be a
?C: pointer to a shell wrapper, i.e. it will be empty if no preprocessor is
```

```
?C: available directly to the user. Note that it may well be different from
?C: the preprocessor used to compile the C program.
?C:.
?C:CPPLAST:
?C: This symbol is intended to be used along with CPPRUN in the same manner
?C: symbol CPPMINUS is used with CPPSTDIN. It contains either "-" or "".
?C:.
?H:#define CPPSTDIN "$cppstdin"
?H:#define CPPMINUS "$cppminus"
?H:#define CPPRUN "$cpprun"
?H:#define CPPLAST "$cpplast"
?H:.
?F:cppstdin !testcpp.out !testcpp.c
?T:wrapper x_cpp x_minus ok
?LINT:extern cppflags
: see how we invoke the C preprocessor
echo " "
echo "Now, how can we feed standard input to your C preprocessor..." >&4
cat <<'EOT' >testcpp.c
#define ABC abc
#define
 XYZ xyz
ABC.XYZ
EOT
cd ..
if test ! -f cppstdin; then
 if test "X$osname" = "Xaix" -a "X$gccversion" = X; then
  # AIX cc -E doesn't show the absolute headerfile
  # locations but we'll cheat by using the -M flag.
  echo 'cat >.$$.c; rm -f .$$.u; "'"$cc"' ${1+"$@"} -M -c .$$.c 2>/dev/null; test -s .$$.u && awk '"""$2 ~ /\.h$/ { print
"# 0 \""$2"\"" }"""' .$$.u; rm -f .$$.o .$$.u; "'"$cc"' -E ${1+"$@"} .$$.c; rm .$$.c' > cppstdin
 else
  echo 'cat >.$$.c; "'"$cc $cppflags"' -E ${1+"$@"} .$$.c; rm .$$.c' >cppstdin
 fi
else
 echo "Keeping your $hint cppstdin wrapper."
fi
chmod 755 cppstdin
wrapper=`pwd`/cppstdin
ok='false'
cd UU

?X:
?X: We'll run the cpp tests again if we don't have any valid C preprocessor
?X: yet or don't know how to proceed without a wrapper (in which case cpprun
?X: is empty and that's really annoying...)
?X:
if $test "X$cppstdin" != "X" && \
```

```
 $cppstdin $cppminus <testcpp.c >testcpp.out 2>&1 && \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1
then
 echo "You used
 to use $cppstdin $cppminus so we'll use that again."
 case "$cpprun" in
 ") echo "But let's see if we can live without a wrapper..." ;;
 *)
  if $cpprun $cpplast <testcpp.c >testcpp.out 2>&1 && \
   $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1
  then
   echo "(And we'll use $cpprun $cpplast to preprocess directly.)"
   ok='true'
  else
   echo "(However, $cpprun $cpplast does not work, let's see...)"
  fi
  ;;
 esac
else
 case "$cppstdin" in
 ") ;;
 *)
  echo "Good old $cppstdin $cppminus does not seem to be of any help..."
  ;;
 esac
fi

if $ok; then
 : nothing
elif echo 'Maybe """$cc"' -E" will work...'; \
 $cc -E <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Yup, it does."
 x_cpp="$cc $cppflags -E"
 x_minus=";
elif echo 'Nope...maybe """$cc"' -E -" will work...'; \
 $cc -E - <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Yup, it does."
 x_cpp="$cc $cppflags -E"
 x_minus='-';
elif
 echo 'Nope...maybe """$cc"' -P" will work...'; \
 $cc -P <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Yipee, that works!"
 x_cpp="$cc $cppflags -P"
 x_minus=";
```

```
elif echo 'Nope...maybe """$cc"' -P -" will work...'; \
 $cc -P - <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "At long last!"
 x_cpp="$cc $cppflags -P"
 x_minus='-';
elif echo 'No such luck, maybe "'$cpp"' will work...'; \
 $cpp <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "It works!"
 x_cpp="$cpp $cppflags"
 x_minus='';
elif echo 'Nixed again...maybe "'$cpp' -" will work...'; \
 $cpp - <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Hooray, it works!  I was beginning to wonder."
 x_cpp="$cpp $cppflags"
 x_minus='-';
elif echo 'Uh-uh.  Time to get fancy.  Trying a wrapper...'; \
 $wrapper <testcpp.c >testcpp.out 2>&1; \
 $contains
 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 x_cpp="$wrapper"
 x_minus=''
 echo "Eureka!"
else
 dflt=''
 rp="No dice.  I can't find a C preprocessor.  Name one:"
 . ./myread
 x_cpp="$ans"
 x_minus=''
 $x_cpp <testcpp.c >testcpp.out 2>&1
 if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
  echo "OK, that will do." >&4
 else
echo "Sorry, I can't get that to work.  Go find one and rerun Configure." >&4
  exit 1
 fi
fi

case "$ok" in
false)
 cppstdin="$x_cpp"
 cppminus="$x_minus"
 cpprun="$x_cpp"
 cpplast="$x_minus"
?X:
?X: If /lib/cpp is used, try using a wrapper to increase our chances to have
```

```
?X: the C compiler and our $cppstdin agree on the same symbols... However,
?X: since cpprun is guaranteed not to be a wrapper, we must clear it if the
?X: only preprocessor we found was a wrapper, with all our luck...
?X:
 set X $x_cpp
 shift
 case "$1" in
 "$cpp")
  echo "Perhaps can we force $cc -E using a wrapper..."
  if $wrapper <testcpp.c >testcpp.out 2>&1; \
   $contains 'abc.*xyz'
 testcpp.out >/dev/null 2>&1
  then
   echo "Yup, we can."
   cppstdin="$wrapper"
   cppminus=";
  else
   echo "Nope, we'll have to live without it..."
  fi
  ;;
 esac
 case "$cpprun" in
 "$wrapper")
  cpprun="
  cpplast="
  ;;
 esac
 ;;
esac

case "$cppstdin" in
"$wrapper"|'cppstdin') ;;
*) $rm -f $wrapper;;
esac
$rm -f testcpp.c testcpp.out
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/cppstdin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_sresgproto: Hasproto i_unistd
?MAKE: -pick add $@ %<
?S:d_sresgproto:
?S: This variable conditionally defines the HAS_SETRESGID_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the setresgid() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_SETRESGID_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the setresgid() function.  Otherwise, it is up
?C: to the program to supply one.  Good guesses are
?C:  extern
 int setresgid(uid_t ruid, uid_t euid, uid_t suid);
?C:.
?H:#$d_sresgproto HAS_SETRESGID_PROTO /**/
?H:.
?LINT:set d_sresgproto
: see if prototype for setresgid is available
echo " "
set d_sresgproto setresgid $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sresgproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_lround: Inlibc
?MAKE: -pick add $@ %<
?S:d_lround:
?S: This variable conditionally defines the HAS_LROUND symbol, which
?S: indicates to the C program that the lround() routine is available
?S: to return the integral value nearest to x.
?S:.
?C:HAS_LROUND:
?C: This symbol, if defined, indicates that the lround routine is
?C: available to return the nearest integral value.
?C:.
?H:#$d_lround HAS_LROUND  /**/
?H:.
?LINT:set d_lround
```

```
: see if lround exists
set lround d_lround
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lround.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: prefix.U,v $
?RCS: Revision 3.0.1.2  1995/01/30  14:44:05  ram
?RCS: patch49: new prefixexp variable holding a fully expanded prefix
?RCS: patch49: save off previous prefix value in oldprefix if changed (WED)
?RCS: patch49: added the INSTALLPREFIX define for C programs to use (WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:31:34  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:prefix prefixexp +oldprefix: Getfile Loc Oldconfig
 cat package
?MAKE: -pick add $@ %<
?S:prefix:
?S: This variable holds the name of the directory below which the
?S: user will install the package.  Usually, this is /usr/local, and
?S: executables go in /usr/local/bin, library stuff in /usr/local/lib,
?S: man pages in /usr/local/man, etc.  It is only used to set defaults
?S: for things in bin.U, mansrc.U, privlib.U, or scriptdir.U.
?S:.
?S:prefixexp:
?S: This variable holds the full absolute path of the directory below
?S: which the user will install the package.  Derived from prefix.
?S:.
?S:oldprefix:
?S: This variable is set non-null if the prefix was previously defined
?S: and gets set to a new value. Used internally by Configure only.
?S:.
```

```
?C:INSTALLPREFIX:
?C: This symbol contains the name of the install prefix for this package.
?C:.
?H:#define INSTALLPREFIX "$prefix"  /**/
?H:.
: determine root of directory hierarchy where package will be installed.
case "$prefix" in
")
 dflt=`./loc . /usr/local /usr/local /local /opt
 /usr`
 ;;
*)
 dflt="$prefix"
 ;;
esac
$cat <<EOM

By default, $package will be installed in $dflt/bin, manual
pages under $dflt/man, etc..., i.e. with $dflt as prefix for
all installation directories. Typically set to /usr/local, but you
may choose /usr if you wish to install $package among your system
binaries. If you wish to have binaries under /bin but manual pages
under /usr/local/man, that's ok: you will be prompted separately
for each of the installation directories, the prefix being only used
to set the defaults.

EOM
fn=d~
rp='Installation prefix to use?'
. ./getfile
oldprefix=''
case "$prefix" in
") ;;
*)
 case "$ans" in
 "$prefix") ;;
 *) oldprefix="$prefix";;
 esac
 ;;
esac
prefix="$ans"
prefixexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/prefix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_tgamma: Inlibc
?MAKE: -pick add $@ %<
?S:d_tgamma:
?S: This variable conditionally defines the HAS_TGAMMA symbol, which
?S: indicates to the C program that the tgamma() routine is available
?S: for the gamma function.  See also d_lgamma.
?S:.
?C:HAS_TGAMMA:
?C: This symbol, if defined, indicates that the tgamma routine is
?C: available to do the gamma function. See also HAS_LGAMMA.
?C:.
?H:#$d_tgamma HAS_TGAMMA  /**/
?H:.
?LINT:set d_tgamma
: see if tgamma exists
set tgamma d_tgamma
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_tgamma.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_vprintf.U,v 3.0 1993/08/18 12:07:59 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_vprintf.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:59  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_vprintf d_charvspr: Compile Guess cat Csym Setvar run rm_try \
 i_stdlib i_unistd i_stdarg i_varargs
?MAKE: -pick add $@ %<
?S:d_vprintf:
?S: This variable conditionally defines the HAS_VPRINTF symbol, which
?S: indicates to the C program that the vprintf() routine is available
?S: to printf with a pointer to an argument list.
?S:.
```

```
?S:d_charvspr:
?S: This
 variable conditionally defines CHARVSPRINTF if this system
?S: has vsprintf returning type (char*).  The trend seems to be to
?S: declare it as "int vsprintf()".
?S:.
?C:HAS_VPRINTF (VPRINTF):
?C: This symbol, if defined, indicates that the vprintf routine is available
?C: to printf with a pointer to an argument list.  If unavailable, you
?C: may need to write your own, probably in terms of _doprnt().
?C:.
?C:USE_CHAR_VSPRINTF (CHARVSPRINTF):
?C: This symbol is defined if this system has vsprintf() returning type
?C: (char*).  The trend seems to be to declare it as "int vsprintf()".  It
?C: is up to the package author to declare vsprintf correctly based on the
?C: symbol.
?C:.
?H:#$d_vprintf HAS_VPRINTF /**/
?H:#$d_charvspr USE_CHAR_VSPRINTF /**/
?H:.
?T:val2
?F:!try
?LINT:set d_vprintf d_charvspr
: see if vprintf exists
echo " "
if set vprintf val -f d_vprintf; eval $csym; $val; then
 echo 'vprintf() found.' >&4
 val="$define"
 $cat >try.c <<EOF
#$i_stdarg I_STDARG  /*
 Only one of these can be defined by i_varhrd */
#$i_varargs I_VARARGS

#$i_stdlib I_STDLIB
#$i_unistd I_UNISTD

#ifdef I_STDARG
#  include <stdarg.h>
#else /* I_VARARGS */
#  include <varargs.h>
#endif

#ifdef I_UNISTD
#  include <unistd.h>
#endif

#ifdef I_STDLIB
#  include <stdlib.h>
```

```
#endif

#include <stdio.h> /* vsprintf prototype */

#ifdef I_STDARG
void xxx(int n, ...)
{
   va_list args;
   char buf[10];
   va_start(args, n);
   exit((unsigned long)vsprintf(buf,"%s",args) > 10L);
}
int main() { xxx(1, "foo"); }

#else /* I_VARARGS */

xxx(va_alist)
va_dcl
{
   va_list args;
   char buf[10];
   va_start(args);
   exit((unsigned long)vsprintf(buf,"%s",args) > 10L);
}
int main() { xxx("foo"); }

#endif

EOF
 set try
 if eval $compile_ok; then
  if $run ./try; then
   echo "Your vsprintf() returns (int)." >&4
   val2="$undef"
  else
   echo "Your vsprintf() returns (char*)." >&4
   val2="$define"
  fi
 else
  echo 'I am unable to compile the vsprintf() test program.' >&4
  #
 We shouldn't get here.  If we do, assume the standard signature,
  # not the old BSD one.
  echo 'Guessing that vsprintf() returns (int).' >&4
  val2="$undef"
 fi
else
 echo 'vprintf() NOT found.' >&4
```

```
 val="$undef"
 val2="$undef"
fi
$rm_try
set d_vprintf
eval $setvar
val=$val2
set d_charvspr
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_vprintf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gconvert.U,v 3.0.1.3 1997/02/28 15:33:38 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_gconvert.U,v $
?RCS: Revision 3.0.1.3 1997/02/28  15:33:38  ram
?RCS: patch61: integrated new unit from perl5
?RCS:
?RCS: Revision 3.0.1.2 1995/07/25  13:55:59  ram
?RCS: patch56: improved comments about the Gconvert macro (ADO)
?RCS: patch56: force compile-link test since it may exist but be unusable (ADO)
?RCS:
?RCS: Revision 3.0.1.1 1994/10/29  16:12:51  ram
?RCS: patch36:
 created by ADO
?RCS:
?MAKE:d_Gconvert: \
 Compile cat Inlibc rm _o rm_try i_stdlib d_qgcvt run \
 uselongdouble d_longdbl d_PRIgldbl sPRIgldbl
?MAKE: -pick add $@ %<
?S:d_Gconvert:
?S: This variable holds what Gconvert is defined as to convert
?S: floating point numbers into strings.  By default, Configure
?S: sets this macro to use the first of gconvert, gcvt, or sprintf
?S: that pass sprintf-%g-like behavior tests.  If perl is using
```

```
?S: long doubles, the macro uses the first of the following
?S: functions that pass Configure's tests: qgcvt, sprintf (if
?S: Configure knows how to make sprintf format long doubles--see
?S: sPRIgldbl), gconvert, gcvt, and sprintf (casting to double).
?S: The gconvert_preference and gconvert_ld_preference variables
?S: can be used to alter Configure's preferences, for doubles and
?S: long doubles, respectively.  If present, they contain a
?S: space-separated list of one or more of the above function
?S: names in the order they should be tried.
?S:
?S: d_Gconvert
 may be set to override Configure with a platform-
?S: specific function.  If this function expects a double, a
?S: different value may need to be set by the uselongdouble.cbu
?S: call-back unit so that long doubles can be formatted without
?S: loss of precision.
?S:.
?C:Gconvert:
?C: This preprocessor macro is defined to convert a floating point
?C: number to a string without a trailing decimal point.  This
?C: emulates the behavior of sprintf("%g"), but is sometimes much more
?C: efficient.  If gconvert() is not available, but gcvt() drops the
?C: trailing decimal point, then gcvt() is used.  If all else fails,
?C: a macro using sprintf("%g") is used. Arguments for the Gconvert
?C: macro are: value, number of digits, whether trailing zeros should
?C: be retained, and the output buffer.
?C: The usual values are:
?C:  d_Gconvert='gconvert((x),(n),(t),(b))'
?C:  d_Gconvert='gcvt((x),(n),(b))'
?C:  d_Gconvert='sprintf((b),"%.*g",(n),(x))'
?C: The last two assume trailing zeros should
 not be kept.
?C:.
?H:#define Gconvert(x,n,t,b) $d_Gconvert
?H:.
?T: xxx_list xxx_convert xxx_ld_list
?F:!try
?LINT:extern gconvert_preference
?LINT:extern gconvert_ld_preference
: Check how to convert floats to strings.

if test "X$d_Gconvert" = X; then

echo " "
echo "Checking for an efficient way to convert floats to strings."
echo " " > try.c
case "$uselongdouble" in
"$define") echo "#define USE_LONG_DOUBLE" >>try.c ;;
```

```
esac
case "$d_longdbl" in
"$define") echo "#define HAS_LONG_DOUBLE" >>try.c ;;
esac
case "$d_PRIgldbl" in
"$define") echo "#define HAS_PRIgldbl"    >>try.c ;;
esac
$cat >>try.c <<EOP
#ifdef TRY_gconvert
#define Gconvert(x,n,t,b) gconvert((x),(n),(t),(b))
const char *myname = "gconvert";
#endif
#ifdef TRY_gcvt
#define Gconvert(x,n,t,b) gcvt((x),(n),(b))
const char *myname = "gcvt";
#endif
#ifdef TRY_qgcvt
#define Gconvert(x,n,t,b) qgcvt((x),(n),(b))
const char *myname = "qgcvt";
#define DOUBLETYPE long double
#endif
#ifdef TRY_sprintf
#if defined(USE_LONG_DOUBLE) &&
 defined(HAS_LONG_DOUBLE)
#ifdef HAS_PRIgldbl
#define Gconvert(x,n,t,b) sprintf((b),"%.*"$sPRIgldbl,(n),(x))
#else
#define Gconvert(x,n,t,b) sprintf((b),"%.*g",(n),(double)(x))
#endif
#else
#define Gconvert(x,n,t,b) sprintf((b),"%.*g",(n),(x))
#endif
const char *myname = "sprintf";
#endif

#ifndef DOUBLETYPE
#if defined(USE_LONG_DOUBLE) && defined(HAS_LONG_DOUBLE)
#define DOUBLETYPE long double
#else
#define DOUBLETYPE double
#endif
#endif

#include <stdio.h>

#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
```

```
#endif
#include <string.h>

void checkit(const char *expect, char *got)
{
   if (strcmp(expect, got)) {
  printf("%s oddity:  Expected %s, got %s\n",
   myname, expect, got);
  exit(1);
 }
}

void lencheck(int expect, int got)
{
   if (expect != got) {
  printf("%s length mismatch:  Expected %d, got %d\n",
   myname, expect, got);
  exit(1);
 }
}

int main()
{
 char buf[64];
 buf[63] = '\0';

 /* This must be 1st test on (which?) platform */
 /* Alan Burlison <AlanBurlsin@unn.unisys.com>
 */
 Gconvert((DOUBLETYPE)0.1, 8, 0, buf);
 checkit("0.1", buf);

 Gconvert((DOUBLETYPE)0.01, 8, 0, buf);
 checkit("0.01", buf);

 Gconvert((DOUBLETYPE)0.001, 8, 0, buf);
 checkit("0.001", buf);

 Gconvert((DOUBLETYPE)0.0001, 8, 0, buf);
 checkit("0.0001", buf);

 Gconvert((DOUBLETYPE)0.00009, 8, 0, buf);
 if (strlen(buf) > 5)
     checkit("9e-005", buf); /* for Microsoft ?? */
 else
     checkit("9e-05", buf);

 Gconvert((DOUBLETYPE)1.0, 8, 0, buf);
```

```
checkit("1", buf);

Gconvert((DOUBLETYPE)1.1, 8, 0, buf);
checkit("1.1", buf);

Gconvert((DOUBLETYPE)1.01, 8, 0, buf);
checkit("1.01", buf);

Gconvert((DOUBLETYPE)1.001, 8, 0, buf);
checkit("1.001", buf);

Gconvert((DOUBLETYPE)1.0001, 8, 0, buf);
checkit("1.0001", buf);

Gconvert((DOUBLETYPE)1.00001, 8, 0, buf);
checkit("1.00001", buf);

Gconvert((DOUBLETYPE)1.000001, 8, 0, buf);
checkit("1.000001", buf);

Gconvert((DOUBLETYPE)0.0, 8, 0, buf);
checkit("0", buf);

Gconvert((DOUBLETYPE)-1.0, 8, 0, buf);
checkit("-1",
buf);

/* Some Linux gcvt's give 1.e+5 here. */
Gconvert((DOUBLETYPE)100000.0, 8, 0, buf);
checkit("100000", buf);

/* Some Linux gcvt's give -1.e+5 here. */
Gconvert((DOUBLETYPE)-100000.0, 8, 0, buf);
checkit("-100000", buf);

Gconvert((DOUBLETYPE)123.456, 8, 0, buf);
checkit("123.456", buf);

/* Testing of 1e+129 in bigintpm.t must not get extra '.' here. */
Gconvert((DOUBLETYPE)1e34, 8, 0, buf);
/* 34 should be enough to scare even long double
 * places into using the e notation. */
if (strlen(buf) > 5)
   checkit("1e+034", buf); /* for Microsoft */
else
   checkit("1e+34", buf);

/* Test for an Ubuntu/Debian bug in gcvt and qgcvt. See:        *
```

```
 * https://bugs.launchpad.net/ubuntu/+source/glibc/+bug/1899553 */

 Gconvert((DOUBLETYPE)0.4, 53, 0, buf);
 lencheck(55, (int)strlen(buf));

 /* For Perl, if you add additional tests here, also add them to
  * t/base/num.t for benefit of platforms not using Configure or
  * overriding d_Gconvert */

 exit(0);
}
EOP
?X:
 List of order in which to search for functions.
?X: Usual order of efficiency is gconvert gcvt sprintf
?X: If a hint file sets a d_Gconvert="gconvert" or "gcvt" or "sprintf",
?X: then that is taken as a hint for which function to try first.
?X: (e.g. that function may be in a problematic /usr/ucblib library, and
?X: the user may or may not choose to use -lucb stuff.)
?X: Any other hint file (or previous config.sh) setting is left intact.
: first add preferred functions to our list
xxx_list=""
for xxx_convert in $gconvert_preference; do
   case $xxx_convert in
   gcvt|gconvert|sprintf) xxx_list="$xxx_list $xxx_convert" ;;
   *) echo "Discarding unrecognized gconvert_preference $xxx_convert" >&4 ;;
   esac
done
: then add any others
for xxx_convert in gconvert gcvt sprintf; do
   case "$xxx_list" in
   *$xxx_convert*) ;;
   *) xxx_list="$xxx_list $xxx_convert" ;;
   esac
done

case "$d_longdbl$uselongdouble" in
"$define$define")
   : again, add preferred functions to our
 list first
   xxx_ld_list=""
   for xxx_convert in $gconvert_ld_preference; do
       case $xxx_convert in
       qgcvt|gcvt|gconvert|sprintf) xxx_ld_list="$xxx_ld_list $xxx_convert" ;;
       *) echo "Discarding unrecognized gconvert_ld_preference $xxx_convert" ;;
       esac
   done
   : then add qgcvt, sprintf--then, in xxx_list order, gconvert and gcvt
```

```
   for xxx_convert in qgcvt sprintf $xxx_list; do
       case "$xxx_ld_list" in
       $xxx_convert*|*" $xxx_convert"*) ;;
       *) xxx_ld_list="$xxx_ld_list $xxx_convert" ;;
       esac
   done
   : if sprintf cannot do long doubles, move it to the end
   if test "$d_PRIgldbl" != "$define"; then
       xxx_ld_list="`echo $xxx_ld_list|sed s/sprintf//` sprintf"
   fi
   : if no qgcvt, remove it
   if test "$d_qgcvt" != "$define"; then
       xxx_ld_list="`echo $xxx_ld_list|sed s/qgcvt//`"
   fi
   : use the ld_list
   xxx_list="$xxx_ld_list"
   ;;
esac

for xxx_convert in $xxx_list; do
 echo "Trying $xxx_convert..."
?X:
 Do NOT use $rm_try here, as we need to keep try.c
 $rm -f try try$_o core
 set try -DTRY_$xxx_convert
 if eval $compile; then
  echo "$xxx_convert() found." >&4
  if $run ./try; then
   echo "I'll use $xxx_convert to convert floats into a string." >&4
   break;
  else
   echo "...But $xxx_convert didn't work as I expected."
   xxx_convert=''
  fi
 else
  echo "$xxx_convert NOT found." >&4
  xxx_convert=''
 fi
done

if test X$xxx_convert = X; then
   echo "*** WHOA THERE!!! ***" >&4
   echo "None of ($xxx_list)  seemed to work properly.  I'll use sprintf." >&4
   xxx_convert=sprintf
fi

case "$xxx_convert" in
gconvert) d_Gconvert='gconvert((x),(n),(t),(b))' ;;
```

```
gcvt) d_Gconvert='gcvt((x),(n),(b))' ;;
qgcvt) d_Gconvert='qgcvt((x),(n),(b))' ;;
*) case "$uselongdouble$d_longdbl$d_PRIgldbl" in
  "$define$define$define")
    d_Gconvert="sprintf((b),\"%.*\"$sPRIgldbl,(n),(x))" ;;
  "$define$define$undef")
    d_Gconvert='sprintf((b),"%.*g",(n),(double)(x))' ;;
  *) d_Gconvert='sprintf((b),"%.*g",(n),(x))'
 ;;
  esac
  ;;
esac

fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_gconvert.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strtoul.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:46:43  ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_strtoul: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtoul:
?S: This variable conditionally defines the HAS_STRTOUL symbol, which
?S: indicates to the C program that the strtoul() routine is available
?S: to provide conversion of strings to unsigned long.
?S:.
?C:HAS_STRTOUL (STRTOUL):
?C: This symbol, if defined, indicates that the strtoul routine is
?C: available
```

```
 to provide conversion of strings to unsigned long.
?C:.
?H:#$d_strtoul HAS_STRTOUL /**/
?H:.
?LINT:set d_strtoul
: see if strtoul exists
set strtoul d_strtoul
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strtoul.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: randfunc.U,v 3.0 1993/08/18 12:09:39 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: randfunc.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This is the new unit that should be used when random
?X: functions are to be used. It thus makes randbits.U obsolete.
?X:
?X: This unit gives a simple #define for Drand01, which produces
?X: doubles in the range [0,1) using the "best" random number
?X: generator available.  The source should just call Drand01
?X: and not worry about the underlying
 implementation.
?X:     Andy Dougherty  July 1998
?X:
?MAKE:randfunc drand01 seedfunc randbits randseedtype: \
 Compile Myread Csym ccflags
?MAKE: -pick add $@ %<
?S:randfunc:
?S: Indicates the name of the random number function to use.
?S: Values include drand48, random, and rand. In C programs,
?S: the 'Drand01' macro is defined to generate uniformly distributed
?S: random numbers over the range [0., 1.[ (see drand01 and nrand).
?S:.
```

```
?S:drand01:
?S: Indicates the macro to be used to generate normalized
?S: random numbers.  Uses randfunc, often divided by
?S: (double) (((unsigned long) 1 << randbits)) in order to
?S: normalize the result.
?S: In C programs, the macro 'Drand01' is mapped to drand01.
?S:.
?S:randseedtype:
?S: Indicates the type of the argument of the seedfunc.
?S:.
?S:seedfunc:
?S: Indicates the random number generating seed function.
?S: Values include srand48, srandom, and srand.
?S:.
?S:randbits:
?S: Indicates how many bits are produced by the function used to
?S: generate
 normalized random numbers.
?S:.
?C:RANDFUNC:
?C: This symbol defines the random function used to define Drand01().
?C:.
?C:Drand01:
?C: This macro is to be used to generate uniformly distributed
?C: random numbers over the range [0., 1.[.  You may have to supply
?C: an 'extern double drand48();' in your program since SunOS 4.1.3
?C: doesn't provide you with anything relevant in its headers.
?C: See HAS_DRAND48_PROTO.
?C:.
?C:Rand_seed_t:
?C: This symbol defines the type of the argument of the
?C: random seed function.
?C:.
?C:seedDrand01:
?C: This symbol defines the macro to be used in seeding the
?C: random number generator (see Drand01).
?C:.
?C:RANDBITS:
?C: This symbol indicates how many bits are produced by the
?C: function used to generate normalized random numbers.
?C: Values include 15, 16, 31, and 48.
?C:.
?H:#define RANDFUNC  $randfunc  /**/
?H:#define Drand01()  $drand01  /**/
?H:#define Rand_seed_t  $randseedtype  /**/
?H:#define seedDrand01(x) $seedfunc((Rand_seed_t)x) /**/
?H:#define
```

```
 RANDBITS  $randbits  /**/
?H:.
?LINT:change ccflags
?LINT:unclosed $randbits))"
: How can we generate normalized random numbers ?
echo " "
echo "Using our internal random number implementation..." >&4

case "$ccflags" in
*-Dmy_rand=*|*-Dmy_srand=*)
 echo "Removing obsolete -Dmy_rand, -Dmy_srand, and -Drandbits from ccflags." >&4
 ccflags="`echo $ccflags | sed -e 's/-Dmy_rand=random/ /'`"
 ccflags="`echo $ccflags | sed -e 's/-Dmy_srand=srandom/ /'`"
 ccflags="`echo $ccflags | sed -e 's/-Drandbits=[0-9][0-9]*/ /'`"
 ;;
esac

randfunc=Perl_drand48
drand01="Perl_drand48()"
seedfunc="Perl_drand48_init"
randbits=48
randseedtype=U32
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/randfunc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: randfunc.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This is the new unit that should be used when random
?X: functions are to be used. It thus makes randbits.U obsolete.
?X:
?MAKE:randfunc mrand seedfunc nrandbits: cat +cc rm test Myread Csym
?MAKE: -pick add $@ %<
```

```
?S:randfunc:
?S: Indicates the name of the random number function to use.
?S: Values include drand48, random, and rand. In C programs,
?S: the 'nrand' macro is defined
 to generate uniformly distributed
?S: random numbers over the range [0., 1.] (see mrand and nrand).
?S:.
?S:mrand:
?S: Indicates the macro to be used to generate normalized
?S: random numbers.  Uses randfunc, often divided by
?S: (double) ((1 << nrandbits) -1) in order to normalize the result.
?S: In C programs, the macro 'nrand' is maped on mrand.
?S:.
?S:seedfunc:
?S: Indicates the random number generating seed function.
?S: Values include srand48, srandom, and srand.
?S:.
?S:nrandbits:
?S: Indicates how many bits are produced by the function used to
?S: generate normalized random numbers.
?S:.
?C:nrand:
?C: This macro is to be used to generate uniformly distributed
?C: random numbers over the range [0., 1.].
?C:.
?C:seednrand:
?C: This symbol defines the macro to be used in seeding the
?C: random number generator (see nrand).
?C:.
?H:#define nrand()  $mrand  /**/
?H:#define seednrand(x) $seedfunc(x) /**/
?H:.
?T:cont val
?LINT:nothere $nrandbits)
: How can we generate normalized
 random numbers ?
echo " "
case "$randfunc" in
")
 if set drand48 val -f; eval $csym; $val; then
  dflt="drand48"
  echo "Good, found drand48()." >&4
 elif set random val -f; eval $csym; $val; then
  dflt="random"
  echo "OK, found random()." >&4
 else
  dflt="rand"
  echo "Yick, looks like I have to use rand()." >&4
```

```
 fi
 echo " "
 ;;
*)
 dflt="$randfunc"
 ;;
esac
cont=true
while $test "$cont"; do
 rp="Use which function to generate random numbers?"
 . ./myread
?X: Invalidates nrandbits if the answer is not the default so
?X: that the value stored in config.sh will not be used when
?X: we change our random function.
 if $test "$ans" = "$dflt"; then
  : null
 else
  nrandbits=''
 fi
 randfunc="$ans"
 if set $ans val -f; eval $csym; $val; then
  cont=''
 else
  dflt=n
  rp="Function $ans does not exists. Use that name anyway?"
  . ./myread
  dflt=rand
  case "$ans" in
   [yY]*) cont='';;
  esac
 fi
 case "$cont" in
 '')
  case "$randfunc" in
  drand48)
   mrand="drand48()"
   seedfunc="srand48"
   ;;
  rand*)
   case
 "$nrandbits" in
   '')
echo "Checking to see how many bits your $randfunc() function produces..." >&4
   $cat >try.c <<EOCP
#include <stdio.h>
int main()
{
 register int i;
```

```
 register unsigned long tmp;
 register unsigned long max = 0L;
 extern long random();

 for (i = 1000; i; i--) {
  tmp = (unsigned long)$randfunc();
  if (tmp > max) max = tmp;
 }
 for (i = 0; max; i++)
  max /= 2;
 printf("%d\n",i);
}
EOCP
   if $cc -o try try.c >/dev/null 2>&1 ; then
   dflt=`try`
   else
   dflt='?'
   echo "(I can't seem to compile the test program...)"
   fi
   ;;
   *)
    dflt="$nrandbits"
    ;;
   esac
   rp="How many bits does your $randfunc() function produce?"
   . ./myread
   nrandbits="$ans"
   $rm -f try.c try
   mrand="($randfunc() / (double) ((1 << $nrandbits) -1))"
   seedfunc="srand"
   ;;
?X: The following is provided just in case...
  *)
   dflt="31"
   rp="How many bits does your $randfunc() function produce?"
   . ./myread
   nrandbits="$ans"
   seedfunc="s$randfunc"
   mrand="($randfunc()
 / (double) ((1 << $nrandbits) -1))"
   if set $seedfunc val -f; eval $csym; $val; then
    echo "(Using $seedfunc() to seed random generator)"
   else
    echo "(Warning: no $seedfunc() to seed random generator)"
    seedfunc=rand
   fi
   ;;
  esac
```

```
  ;;
 esac
done
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/randfunc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_finitel: Inlibc
?MAKE: -pick add $@ %<
?S:d_finitel:
?S: This variable conditionally defines the HAS_FINITEL symbol, which
?S: indicates to the C program that the finitel() routine is available.
?S:.
?C:HAS_FINITEL:
?C: This symbol, if defined, indicates that the finitel routine is
?C: available to check whether a long double is finite
?C: (non-infinity non-NaN).
?C:.
?H:#$d_finitel HAS_FINITEL  /**/
?H:.
?LINT:set d_finitel
: see if finitel exists
set finitel d_finitel
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_finitel.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_cmsghdr_s: Hasstruct i_systypes d_socket i_sysuio Setvar
?MAKE: -pick add $@ %<
```

```
?S:d_cmsghdr_s:
?S: This variable conditionally defines the HAS_STRUCT_CMSGHDR symbol,
?S: which indicates that the struct cmsghdr is supported.
?S:.
?C:HAS_STRUCT_CMSGHDR:
?C: This symbol, if defined, indicates that the struct cmsghdr
?C: is supported.
?C:.
?H:#$d_cmsghdr_s HAS_STRUCT_CMSGHDR /**/
?H:.
?LINT:set d_cmsghdr_s
: Check for cmsghdr support
echo " "
echo "Checking to see if your system supports struct cmsghdr..." >&4
set d_cmsghdr_s cmsghdr $i_systypes sys/types.h $d_socket sys/socket.h $i_sysuio sys/uio.h
eval $hasstruct
case "$d_cmsghdr_s" in
"$define")      echo "Yes, it does."   ;;
*)              echo
 "No, it doesn't." ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_cmsghdr_s.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_statblks.U,v 3.0 1993/08/18 12:07:29 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_statblks.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:29  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_statblks: Hasfield i_sysstat
?MAKE: -pick add $@ %<
?S:d_statblks:
?S: This variable conditionally defines USE_STAT_BLOCKS
?S: if this system has a stat structure declaring
?S: st_blksize and st_blocks.
?S:.
```

```
?C:USE_STAT_BLOCKS (STATBLOCKS):
?C: This symbol is defined if this system has a stat structure declaring
?C: st_blksize and st_blocks.
?C:.
?H:?%<:#ifndef
 USE_STAT_BLOCKS
?H:?%<:#$d_statblks USE_STAT_BLOCKS /**/
?H:?%<:#endif
?H:.
?LINT:set d_statblks
: see if stat knows about block sizes
echo " "
echo "Checking to see if your struct stat has st_blocks field..." >&4
set d_statblks stat st_blocks $i_sysstat sys/stat.h
eval $hasfield
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_statblks.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:use64bitint use64bitall archname64: Myread Oldconfig Setvar test \
 usemorebits longsize ccflags d_quad uquadtype Compile rm_try run
?MAKE: -pick add $@ %<
?Y:TOP
?S:use64bitint:
?S: This variable conditionally defines the USE_64_BIT_INT symbol,
?S: and indicates that 64-bit integer types should be used
?S: when available.  The minimal possible 64-bitness
?S: is employed, just enough to get 64-bit integers into Perl.
?S: This may mean using for example "long longs", while your memory
?S: may still be limited to 2 gigabytes.
?S:.
?S:use64bitall:
?S: This variable conditionally defines the USE_64_BIT_ALL symbol,
?S: and indicates that 64-bit integer types should be used
?S: when available.  The maximal
 possible
?S: 64-bitness is employed: LP64 or ILP64, meaning that you will
?S: be able to use more than 2 gigabytes of memory.  This mode is
?S: even more binary incompatible than USE_64_BIT_INT. You may not
```

```
?S: be able to run the resulting executable in a 32-bit CPU at all or
?S: you may need at least to reboot your OS to 64-bit mode.
?S:.
?S:archname64:
?S: This variable is used for the 64-bitness part of $archname.
?S:.
?C:USE_64_BIT_INT:
?C: This symbol, if defined, indicates that 64-bit integers should
?C: be used when available.  If not defined, the native integers
?C: will be employed (be they 32 or 64 bits).  The minimal possible
?C: 64-bitness is used, just enough to get 64-bit integers into Perl.
?C: This may mean using for example "long longs", while your memory
?C: may still be limited to 2 gigabytes.
?C:.
?C:USE_64_BIT_ALL:
?C: This symbol, if defined, indicates that 64-bit integers should
?C: be used when available.  If not defined, the native integers
?C: will be used (be
 they 32 or 64 bits).  The maximal possible
?C: 64-bitness is employed: LP64 or ILP64, meaning that you will
?C: be able to use more than 2 gigabytes of memory.  This mode is
?C: even more binary incompatible than USE_64_BIT_INT. You may not
?C: be able to run the resulting executable in a 32-bit CPU at all or
?C: you may need at least to reboot your OS to 64-bit mode.
?C:.
?H:?%<:#ifndef USE_64_BIT_INT
?H:?%<:#$use64bitint USE_64_BIT_INT  /**/
?H:?%<:#endif
?H:?%<:#ifndef USE_64_BIT_ALL
?H:?%<:#$use64bitall USE_64_BIT_ALL  /**/
?H:?%<:#endif
?H:.
?INIT:archname64="
?LINT:extern ccflags
?LINT:use usemorebits
?LINT:extern use64bits
?LINT:extern uselonglong
?LINT:extern uselonglongs
?LINT:extern use64bitints
?LINT:extern use64bitsint
?LINT:extern use64bitsall
?T:libcquad
?F:!try
?F:!use64bitint.cbu
?F:!use64bitall.cbu
: Do we want 64bit support
case "$uselonglong" in
"$define"|true|[yY]*)
```

```
 cat <<EOM >&4

*** Configure -Duselonglong is deprecated, using -Duse64bitint instead.
EOM
 use64bitint="$define"
 ;;
esac
case
 "$use64bits" in
"$define"|true|[yY]*)
 cat <<EOM >&4

*** Configure -Duse64bits is deprecated, using -Duse64bitint instead.
EOM
 use64bitint="$define"
 ;;
esac
case "$use64bitints" in
"$define"|true|[yY]*)
 cat <<EOM >&4

*** There is no Configure -Duse64bitints, using -Duse64bitint instead.
EOM
 use64bitint="$define"
 ;;
esac
case "$use64bitsint" in
"$define"|true|[yY]*)
 cat <<EOM >&4

*** There is no Configure -Duse64bitsint, using -Duse64bitint instead.
EOM
 use64bitint="$define"
 ;;
esac
case "$uselonglongs" in
"$define"|true|[yY]*)
 cat <<EOM >&4

*** There is no Configure -Duselonglongs, using -Duse64bitint instead.
EOM
 use64bitint="$define"
 ;;
esac
case "$use64bitsall" in
"$define"|true|[yY]*)
 cat <<EOM >&4
```

```
*** There is no Configure -Duse64bitsall, using -Duse64bitall instead.
EOM
 use64bitall="$define"
 ;;
esac

case "$ccflags" in
*-DUSE_LONG_LONG*|*-DUSE_64_BIT_INT*|*-DUSE_64_BIT_ALL*) use64bitint="$define";;
esac
case "$use64bitall" in
"$define"|true|[yY]*)
 use64bitint="$define" ;;
esac

case "$longsize" in
8) cat <<EOM

You have natively 64-bit long integers.
EOM
  val="$define"
  ;;
*) case "$use64bitint" in
  "$define"|true|[yY]*) dflt='y';;
  *) dflt='n';;
  esac
  case "$d_quad" in
  "$define") ;;
  *) dflt='n' ;;
  esac
  cat <<EOM

Perl can be built to take advantage of 64-bit integer types
on some systems.  To do so, Configure can be run with -Duse64bitint.
Choosing this option will most probably introduce binary incompatibilities.

If this doesn't make any sense to you, just accept the default '$dflt'.
(The default has been chosen based on your configuration.)
EOM
  rp='Try to use 64-bit integers, if available?'
  . ./myread
  case "$ans" in
  [yY]*) val="$define" ;;
  *)     val="$undef"  ;;
  esac
  ;;
esac
set use64bitint
eval $setvar
```

```
case "$use64bitall" in
"$define"|true|[yY]*) dflt='y' ;;
*) case "$longsize" in
  8) dflt='y' ;;
  *) dflt='n' ;;
  esac
  ;;
esac
cat <<EOM

You may also
 choose to try maximal 64-bitness.  It means using as much
64-bitness as possible on the platform.  This in turn means even more
binary incompatibilities.  On the other hand, your platform may not
have any more 64-bitness available than what you already have chosen.

If this doesn't make any sense to you, just accept the default '$dflt'.
(The default has been chosen based on your configuration.)
EOM
rp='Try to use maximal 64-bit support, if available?'
. ./myread
case "$ans" in
[yY]*) val="$define" ;;
*)     val="$undef"  ;;
esac
set use64bitall
eval $setvar
case "$use64bitall" in
"$define")
 case "$use64bitint" in
 "$undef")
  cat <<EOM

Since you have chosen a maximally 64-bit build, I'm also turning on
the use of 64-bit integers.
EOM
  use64bitint="$define" ;;
 esac
 ;;
esac

: Look for a hint-file generated 'call-back-unit'.  If the
: user has specified that a 64-bit perl is to be built,
: we may need to set or change some other defaults.
if $test -f use64bitint.cbu; then
 echo "Your
```

```
 platform has some specific hints regarding 64-bit integers, using them..."
 . ./use64bitint.cbu
fi
case "$use64bitint" in
"$define"|true|[yY]*)
 : This test was common to all the OpenBSD forks, and seems harmless for
 : other platforms:
 echo " "
 echo "Checking if your C library has broken 64-bit functions..." >&4
 cat >try.c <<EOCP
#include <stdio.h>
typedef $uquadtype myULL;
int main (void)
{
   struct {
 double d;
 myULL  u;
   } *p, test[] = {
 {4294967303.15, 4294967303ULL},
 {4294967294.2,  4294967294ULL},
 {4294967295.7,  4294967295ULL},
 {0.0, 0ULL}
   };
   for (p = test; p->u; p++) {
 myULL x = (myULL)p->d;
 if (x != p->u) {
     printf("buggy\n");
     return 0;
 }
   }
   printf("ok\n");
   return 0;
}
EOCP
 set try
 if eval $compile_ok; then
     libcquad=`$run ./try`
     echo "Your C library's 64-bit functions are $libcquad."
 else
     echo "(I can't seem to compile the test program.)"
     echo "Assuming that your C library's 64-bit functions are ok."
     libcquad="ok"
 fi
 $rm_try

 case
 "$libcquad" in
     buggy*)
```

```
  cat >&4 <<EOM

*** You have a C library with broken 64-bit functions.
*** 64-bit support does not work reliably in this configuration.
*** Please rerun Configure without -Duse64bitint and/or -Dusemorebits.
*** Cannot continue, aborting.

EOM
  exit 1
  ;;
 esac
 case "$longsize" in
 4) case "$archname64" in
    ") archname64=64int ;;
    esac
    ;;
 esac
 ;;
esac

: Look for a hint-file generated 'call-back-unit'.  If the
: user has specified that a maximally 64-bit perl is to be built,
: we may need to set or change some other defaults.
if $test -f use64bitall.cbu; then
 echo "Your platform has some specific hints regarding 64-bit builds, using them..."
 . ./use64bitall.cbu
fi
case "$use64bitall" in
"$define"|true|[yY]*)
 case "$longsize" in
 4) case "$archname64" in
    "|64int) archname64=64all ;;
    esac
    ;;
 esac
 ;;
esac

case "$d_quad:$use64bitint" in
$undef:$define)
 cat >&4 <<EOF

*** You have chosen to use 64-bit
 integers,
*** but none can be found.
*** Please rerun Configure without -Duse64bitint and/or -Dusemorebits.
*** Cannot continue, aborting.
```

```
EOF
 exit 1
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/use64bits.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_time.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit finds which "time" include to use. If 'timezone' is used by the
?X: program, we also try to find which header should be included. Eventually,
?X: we look for <sys/select.h> if I_SYSSELECT is used, to get struct timeval.
?X:
?MAKE:i_time i_systime i_systimek timeincl: cat cc ccflags contains rm_try \
 echo n c +i_sysselct Findhdr
?MAKE: -pick add $@ %<
?S:i_time:
?S: This
 variable conditionally defines I_TIME, which indicates
?S: to the C program that it should include <time.h>.
?S:.
?S:i_systime:
?S: This variable conditionally defines I_SYS_TIME, which indicates
?S: to the C program that it should include <sys/time.h>.
?S:.
?S:i_systimek:
?S: This variable conditionally defines I_SYS_TIME_KERNEL, which
?S: indicates to the C program that it should include <sys/time.h>
?S: with KERNEL defined.
?S:.
?S:timeincl:
?S: This variable holds the full path of the included time header(s).
```

```
?S:.
?C:I_TIME (USE_TIME_H):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <time.h>.
?C:.
?C:I_SYS_TIME (I_SYSTIME USE_SYS_TIME_H NO_TIME_WITH_SYS_TIME):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/time.h>.
?C:.
?C:I_SYS_TIME_KERNEL (I_SYSTIMEKERNEL):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/time.h> with KERNEL defined.
?C:.
?H:#$i_time I_TIME  /**/
?H:#$i_systime
 I_SYS_TIME  /**/
?H:#$i_systimek I_SYS_TIME_KERNEL  /**/
?H:.
?W::timezone
?T:xselect flags sysselect s_timeval s_timezone
?LINT:change i_sysselct
: see if we should include time.h, sys/time.h, or both
echo " "
echo "Testing to see if we should include <time.h>, <sys/time.h> or both." >&4
$echo $n "I'm now running the test program...$c"
$cat >try.c <<'EOCP'
#include <sys/types.h>
#ifdef I_TIME
#include <time.h>
#endif
#ifdef I_SYSTIME
#ifdef SYSTIMEKERNEL
#define KERNEL
#endif
#include <sys/time.h>
#endif
#ifdef I_SYSSELECT
#include <sys/select.h>
#endif
int main()
{
 struct tm foo;
#ifdef S_TIMEVAL
 struct timeval bar;
#endif
#ifdef S_TIMEZONE
 struct timezone tzp;
#endif
```

```
 if (foo.tm_sec == foo.tm_sec)
  exit(0);
#ifdef S_TIMEVAL
 if (bar.tv_sec == bar.tv_sec)
  exit(0);
#endif
 exit(1);
}
EOCP
flags=''
@if I_SYSSELECT
if $contains 'timeval.*{' `./findhdr sys/select.h` >/dev/null 2>&1; then
 xselect='-DI_SYSSELECT'
else
 xselect=''
fi
@end
@if timezone
for s_timezone
 in '-DS_TIMEZONE' ''; do
@else
s_timezone=''
@end
?X: Every package is given a try with 'struct timeval'
@if I_SYSSELECT
for sysselect in $xselect ''; do
@else
sysselect=''
@end
for s_timeval in '-DS_TIMEVAL' ''; do
for i_systimek in '' '-DSYSTIMEKERNEL'; do
for i_time in '' '-DI_TIME'; do
for i_systime in '-DI_SYSTIME' ''; do
 case "$flags" in
 '') $echo $n ".$c"
  if $cc $ccflags \
  $i_time $i_systime $i_systimek $sysselect $s_timeval $s_timezone \
  -o try try.c >/dev/null 2>&1 ; then
   set X $i_time $i_systime $i_systimek $sysselect $s_timeval
   shift
   flags="$*"
   echo " "
   $echo $n "Succeeded with $flags$c"
  fi
  ;;
 esac
done
done
```

```
done
done
@if I_SYSSELECT
done
@end
@if timezone
done
@end
timeincl="
echo " "
case "$flags" in
*SYSTIMEKERNEL*) i_systimek="$define"
 timeincl=`./findhdr sys/time.h`
 echo "We'll include <sys/time.h> with KERNEL defined." >&4;;
*) i_systimek="$undef";;
esac
case "$flags" in
*I_TIME*) i_time="$define"
 timeincl=`./findhdr time.h`" $timeincl"
 echo
 "We'll include <time.h>." >&4;;
*) i_time="$undef";;
esac
case "$flags" in
*I_SYSTIME*) i_systime="$define"
 timeincl=`./findhdr sys/time.h`" $timeincl"
 echo "We'll include <sys/time.h>." >&4;;
*) i_systime="$undef";;
esac
@if I_SYSSELECT
case "$flags" in
*I_SYSSELECT*) i_sysselct="$define"
 timeincl=`./findhdr sys/select.h`" $timeincl"
 echo "We'll also include <sys/select.h> to get struct timeval." >&4;;
*) case "$i_sysselct" in
 ") i_sysselct="$undef";;
 esac
esac
@end
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_time.U
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?RCS: License or the Artistic License, as specified in the README file.

```
?RCS:
?MAKE:d_exp2: Inlibc
?MAKE: -pick add $@ %<
?S:d_exp2:
?S: This variable conditionally defines the HAS_EXP2 symbol, which
?S: indicates to the C program that the exp2() routine is available.
?S:.
?C:HAS_EXP2:
?C: This symbol, if defined, indicates that the exp2 routine is
?C: available to do the 2**x function.
?C:.
?H:#$d_exp2 HAS_EXP2  /**/
?H:.
?LINT:set d_exp2
: see if exp2 exists
set exp2 d_exp2
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_exp2.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_tzmin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_tzmin.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:16:58  ram
?RCS: patch36: call ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:49  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_tzmin: contains cppstdin cppminus timeincl rm Setvar Guess
?MAKE: -pick add $@ %<
?S:d_tzmin:
?S: This symbol conditionally defines TZ_MINUTESWEST if the system uses
?S: tz_minuteswest in time header instead of timezone.
?S:.
?C:TZ_MINUTESWEST:
?C: This
```

```
 symbol is defined if this system uses tz_minuteswest
?C: in time header instead of timezone.
?C: If not defined, you may have to use struct timeb and ftime() rather
?C: than the new gettimeofday() system call.
?C:.
?H:#$d_tzmin TZ_MINUTESWEST  /**/
?H:.
?LINT:set d_tzmin
: see if tz_minuteswest is defined in time header
echo " "
val="$undef"
$cppstdin $cppminus < $timeincl > try 2>&1
if $contains 'tz_minuteswest' try >/dev/null 2>&1; then
echo "You have tz_minuteswest defined in $timeincl rather than timezone." >&4
 val="$define"
elif $contains 'timezone' try >/dev/null 2>&1; then
echo "You have timezone defined in $timeincl rather than tz_minuteswest." >&4
else
 echo "Your $timeincl file looks strange." >&4
fi
if ./bsd; then
 case "$d_tzmin" in
 "$undef") echo "(Maybe your system is an USG one after all?)";;
 esac
fi
set d_tzmin
eval $setvar
$rm -f try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_tzmin.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtoll: Inlibc d_longlong Compile cat run
?MAKE: -pick add $@ %<
?S:d_strtoll:
?S: This variable conditionally defines the HAS_STRTOLL symbol, which
?S: indicates to the C program that the strtoll() routine is available.
?S:.
?C:HAS_STRTOLL:
```

```
?C: This symbol, if defined, indicates that the strtoll routine is
?C: available to convert strings to long longs.
?C:.
?H:#$d_strtoll HAS_STRTOLL  /**/
?H:.
?T:yyy
?F:!try
: see if strtoll exists
set strtoll d_strtoll
eval $inlibc

case "$d_longlong-$d_strtoll" in
"$define-$define")
 $cat <<EOM
Checking whether your strtoll() works okay...
EOM
 $cat >try.c <<'EOCP'
#include <errno.h>
#ifdef __hpux
#define strtoll __strtoll
#endif
#ifdef __EMX__
#define strtoll
 _strtoll
#endif
#include <stdio.h>
#include <stdlib.h>
static int bad = 0;
void check(const char *s, long long ell, int een) {
 long long gll;
 errno = 0;
 gll = strtoll(s, 0, 10);
 if (!((gll == ell) && (errno == een)))
  bad++;
}
int main() {
 check(" 1",                                1LL, 0);
 check(" 0",                                0LL, 0);
 check("-1",                               -1LL, 0);
 check("-9223372036854775808", -9223372036854775808LL, 0);
 check("-9223372036854775808", -9223372036854775808LL, 0);
 check(" 9223372036854775807",  9223372036854775807LL, 0);
 check("-9223372036854775808", -9223372036854775808LL, 0);
 check(" 9223372036854775808",  9223372036854775807LL, ERANGE);
 check("-9223372036854775809", -9223372036854775808LL, ERANGE);
 if (!bad)
  printf("ok\n");
}
```

```
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  ok) echo "Your strtoll() seems to be working okay." ;;
  *) cat <<EOM >&4
Your strtoll() doesn't seem
 to be working okay.
EOM
     d_strtoll="$undef"
     ;;
  esac
 else
  echo "(I can't seem to compile the test program--assuming it doesn't)"
  d_strtoll="$undef"
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strtoll.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_dup3: Inlibc
?MAKE: -pick add $@ %<
?S:d_dup3:
?S: This variable conditionally defines HAS_DUP3 if dup3() is
?S: available to duplicate file descriptors.
?S:.
?C:HAS_DUP3:
?C: This symbol, if defined, indicates that the dup3 routine is
?C: available to duplicate file descriptors.
?C:.
?H:#$d_dup3 HAS_DUP3 /**/
?H:.
?LINT:set d_dup3
: see if dup3 exists
set dup3 d_dup3
```

```
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_dup3.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_nolnbuf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_nolnbuf.U,v $
?RCS: Revision 3.0.1.1  1994/05/06  14:46:07  ram
?RCS: patch23: avoid looping in the "see that again?" prompt (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:43  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_nolnbuf: test +cc cat rm Setvar Myread
?MAKE: -pick add $@ %<
?S:d_nolnbuf:
?S: This variable conditionally defines the NOLINEBUF symbol, which
?S: indicates to the C program that stdout is not buffered, so that
?S: the
 program can call setbuf() or setlinebuf() for efficiency.
?S:.
?C:NOLINEBUF:
?C: This symbol, if defined, indicates that stdout is not buffered, so that
?C: the program can call setbuf() or setlinebuf() for efficiency.
?C:.
?H:#$d_nolnbuf NOLINEBUF /**/
?H:.
?T:xxx
?F:!blurfl
?LINT:set d_nolnbuf
: check for buffering of stdout
echo " "
case "$d_nolnbuf" in
")
 $cat <<'EOT' >blurfl.c
#include <stdio.h>
int main()
```

```
{
 int i;

 for (i = 0; i < 5; i++) {
  putchar(i+'a');
  sleep(1);
 }
 putchar('\n');
}
EOT
 $cc -o blurfl blurfl.c >/dev/null 2>&1;
 $rm -f blurfl.c
 $cat >&4 <<'EOM'
Checking for buffering of stdout to terminal.

Observe the following characters as they are printed out, to see whether they
print out all at once, or with a 1 second pause between each of them.  If they
print out one by one, you don't have buffering.  If they print together (after
about a 5 second pause), you do have buffering.

EOM
 dflt='Type return to start printing the test characters'
 rp="
 .
 ./myread
 xxx=y
 while $test "$xxx" = 'y'; do
  ./blurfl 1>&4
  dflt=n
  rp='Would you like to see that again?'
  . ./myread
  case "$ans" in
  [yY]*) xxx="y";;
  *) xxx="n";;
  esac
 done
 dflt=y
 rp="Do you have buffering (printed all at once)?"
 . ./myread
 case "$ans" in
 n*) val="$define";;
 *)  val="$undef";;
 esac
 ;;
*)
 case "$d_nolnbuf" in
 "$define") dflt=n;;
 *) dflt=y;;
```

```
 esac
 rp="Do you have buffering on stdout to terminals?"
 . ./myread
 case "$ans" in
 n*) val="$define";;
 *)  val="$undef";;
 esac
 ;;
esac
set d_nolnbuf
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_nolnbuf.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_quad quadtype uquadtype quadkind: \
 longsize intsize d_longlong longlongsize d_int64_t \
 Inhdr Setvar
?MAKE: -pick add $@ %<
?S:d_quad:
?S: This variable, if defined, tells that there's a 64-bit integer type,
?S: quadtype.
?S:.
?S:quadtype:
?S: This variable defines Quad_t to be something like long, int,
?S: long long, int64_t, or whatever type is used for 64-bit integers.
?S:.
?S:quadkind:
?S: This variable, if defined, encodes the type of a quad:
?S: 1 = int, 2 = long, 3 = long long, 4 = int64_t.
?S:.
?S:uquadtype:
?S: This variable defines Uquad_t to be something like unsigned long,
?S: unsigned int, unsigned long long, uint64_t, or whatever type is
?S: used for 64-bit integers.
?S:.
?C:HAS_QUAD:
?C: This
```

```
 symbol, if defined, tells that there's a 64-bit integer type,
?C: Quad_t, and its unsigned counterpart, Uquad_t. QUADKIND will be one
?C: of QUAD_IS_INT, QUAD_IS_LONG, QUAD_IS_LONG_LONG, QUAD_IS_INT64_T,
?C: or QUAD_IS___INT64.
?C:.
?H:#$d_quad HAS_QUAD /**/
?H:?%<:#ifdef HAS_QUAD
?H:?%<:#   define Quad_t $quadtype /**/
?H:?%<:#   define Uquad_t $uquadtype /**/
?H:?%<:#   define QUADKIND $quadkind /**/
?H:?%<:#   define QUAD_IS_INT 1
?H:?%<:#   define QUAD_IS_LONG 2
?H:?%<:#   define QUAD_IS_LONG_LONG 3
?H:?%<:#   define QUAD_IS_INT64_T 4
?H:?%<:#   define QUAD_IS___INT64 5
?H:?%<:#endif
?H:.
?LINT:set quadtype
?LINT:set uquadtype
: Check if 64bit ints have a quad type
echo " "
echo "Checking which 64-bit integer type we could use..." >&4
?X: We prefer quad types in order of int, long, long long, int64_t.

case "$intsize" in
8) val=int
  set quadtype
  eval $setvar
  val='"unsigned int"'
  set uquadtype
  eval $setvar
  quadkind=1
  ;;
*) case "$longsize" in
  8)
 val=long
    set quadtype
    eval $setvar
    val='"unsigned long"'
    set uquadtype
    eval $setvar
    quadkind=2
    ;;
  *) case "$d_longlong:$longlongsize" in
    define:8)
      val='"long long"'
      set quadtype
      eval $setvar
```

```
      val='"unsigned long long"'
      set uquadtype
      eval $setvar
      quadkind=3
      ;;
    *) case "$d_int64_t" in
       define)
         val=int64_t
         set quadtype
         eval $setvar
         val=uint64_t
         set uquadtype
         eval $setvar
         quadkind=4
         ;;
       esac
       ;;
    esac
    ;;
  esac
  ;;
esac

case "$quadtype" in
") echo "Alas, no 64-bit integer types in sight." >&4
 d_quad="$undef"
 ;;
*) echo "We could use '$quadtype' for 64-bit integers." >&4
 d_quad="$define"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/a_dvisory/quadtype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_shmat.U,v 3.0.1.3 1995/07/25 14:04:23 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_shmat.U,v $
```

```
?RCS: Revision 3.0.1.3  1995/07/25  14:04:23  ram
?RCS: patch56: use findhdr to find <sys/shm.h>, to get the right one (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:18:56  ram
?RCS: patch27: added new symbol HAS_SHMAT_PROTOTYPE (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:54:18  ram
?RCS: patch23: new Shmat_t symbol to declare return type of shmat()
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:18  ram
?RCS: Baseline for dist 3.0 netwide
 release.
?RCS:
?MAKE:d_shmat shmattype d_shmatprototype: Inlibc cat +cc +ccflags \
 rm cppstdin cppflags cppminus Findhdr Setvar contains
?MAKE: -pick add $@ %<
?S:d_shmat:
?S: This variable conditionally defines the HAS_SHMAT symbol, which
?S: indicates to the C program that the shmat() routine is available.
?S:.
?S:shmattype:
?S: This symbol contains the type of pointer returned by shmat().
?S: It can be 'void *' or 'char *'.
?S:.
?S:d_shmatprototype:
?S: This variable conditionally defines the HAS_SHMAT_PROTOTYPE
?S: symbol, which indicates that sys/shm.h has a prototype for
?S: shmat.
?S:.
?C:HAS_SHMAT:
?C: This symbol, if defined, indicates that the shmat() routine is
?C: available to attach a shared memory segment to the process space.
?C:.
?C:Shmat_t:
?C: This symbol holds the return type of the shmat() system call.
?C: Usually set to 'void *' or 'char *'.
?C:.
?C:HAS_SHMAT_PROTOTYPE:
?C: This symbol, if defined, indicates that the sys/shm.h includes
?C: a prototype for shmat().
  Otherwise, it is up to the program to
?C: guess one.  Shmat_t shmat(int, Shmat_t, int) is a good guess,
?C: but not always right so it should be emitted by the program only
?C: when HAS_SHMAT_PROTOTYPE is not defined to avoid conflicting defs.
?C:.
?H:#$d_shmat HAS_SHMAT  /**/
?H:#define Shmat_t $shmattype /**/
?H:#$d_shmatprototype HAS_SHMAT_PROTOTYPE /**/
```

```
?H:.
?LINT:set d_shmat d_shmatprototype
?T:xxx
: see if shmat exists
set shmat d_shmat
eval $inlibc
: see what shmat returns
case "$d_shmat" in
"$define")
 $cat >shmat.c <<'END'
#include <sys/shm.h>
void *shmat();
END
 if $cc $ccflags -c shmat.c >/dev/null 2>&1; then
  shmattype='void *'
 else
  shmattype='char *'
 fi
 echo "and it returns ($shmattype)." >&4
 : see if a prototype for shmat is available
 xxx=`./findhdr sys/shm.h`
 $cppstdin $cppflags $cppminus < $xxx > shmat.c 2>/dev/null
 if $contains 'shmat.*(' shmat.c >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 $rm -f shmat.[co]
 ;;
*)
 val="$undef"
 ;;
esac
set
 d_shmatprototype
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_shmat.U
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```
?RCS: $Id: d_setsent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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```

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_setsent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setsent: Inlibc
?MAKE: -pick add $@ %<
?S:d_setsent:
?S: This variable conditionally defines HAS_SETSERVENT if setservent() is
?S: available.
?S:.
?C:HAS_SETSERVENT:
?C: This symbol, if defined, indicates that the setservent() routine is
?C: available.
?C:.
?H:#$d_setsent HAS_SETSERVENT  /**/
?H:.
?LINT:set d_setsent
: see if setservent exists
set
 setservent d_setsent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_setsent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_lgamma_r: Inlibc
?MAKE: -pick add $@ %<
?S:d_lgamma_r:
?S: This variable conditionally defines the HAS_LGAMMA_R symbol, which
?S: indicates to the C program that the lgamma_r() routine is available
?S: for the log gamma function, without using the global signgam variable.
?S:.
?C:HAS_LGAMMA_R:
?C: This symbol, if defined, indicates that the lgamma_r routine is
?C: available to do the log gamma function without using the global
?C: signgam variable.
?C:.
?H:#$d_lgamma_r HAS_LGAMMA_R  /**/
?H:.
```

```
?LINT:set d_lgamma_r
: see if lgamma_r exists
set lgamma_r d_lgamma_r
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lgamma_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: patchlevel.U,v 3.0.1.1 1997/02/28 16:18:41 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: patchlevel.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:18:41  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:patchlevel revision version subversion \
 perl_patchlevel version_patchlevel_string \
 api_revision api_version api_subversion api_versionstring: \
 package test rsrc echo awk osname
?MAKE: -pick
 add $@ %<
?S:revision:
?S: The value of revision comes from the patchlevel.h file.
?S: In a version number such as 5.6.1, this is the "5".
?S: In patchlevel.h, this is referred to as "PERL_REVISION".
?S:.
?S:patchlevel:
?S: The patchlevel level of this package.
?S: The value of patchlevel comes from the patchlevel.h file.
?S: In a version number such as 5.6.1, this is the "6".
?S: In patchlevel.h, this is referred to as "PERL_VERSION".
?S:.
?S:subversion:
?S: The subversion level of this package.
?S: The value of subversion comes from the patchlevel.h file.
```

```
?S: In a version number such as 5.6.1, this is the "1".
?S: In patchlevel.h, this is referred to as "PERL_SUBVERSION".
?S: This is unique to perl.
?S:.
?S:version:
?S: The full version number of this package, such as 5.6.1 (or 5_6_1).
?S: This combines revision, patchlevel, and subversion to get the
?S: full version number, including any possible subversions.
?S: This is suitable for use as a directory name, and hence is
?S: filesystem
 dependent.
?S:.
?S:api_revision:
?S: The three variables, api_revision, api_version, and
?S: api_subversion, specify the version of the oldest perl binary
?S: compatible with the present perl.  In a full version string
?S: such as '5.6.1', api_revision is the '5'.
?S: Prior to 5.5.640, the format was a floating point number,
?S: like 5.00563.
?S:
?S: perl.c:incpush() and lib/lib.pm will automatically search in
?S: $sitelib/.. for older directories back to the limit specified
?S: by these api_ variables.  This is only useful if you have a
?S: perl library directory tree structured like the default one.
?S: See INSTALL for how this works.  The versioned site_perl
?S: directory was introduced in 5.005, so that is the lowest
?S: possible value.  The version list appropriate for the current
?S: system is determined in inc_version_list.U.
?S:
?S: XXX To do:  Since compatibility can depend on compile time
?S: options (such as bincompat, longlong, etc.) it should
?S: (perhaps) be set by
 Configure, but currently it isn't.
?S: Currently, we read a hard-wired value from patchlevel.h.
?S: Perhaps what we ought to do is take the hard-wired value from
?S: patchlevel.h but then modify it if the current Configure
?S: options warrant.  patchlevel.h then would use an #ifdef guard.
?S:.
?S:api_version:
?S: The three variables, api_revision, api_version, and
?S: api_subversion, specify the version of the oldest perl binary
?S: compatible with the present perl.  In a full version string
?S: such as '5.6.1', api_version is the '6'.  See api_revision for
?S: full details.  As a special case, 5.5.0 is rendered in the
?S: old-style as 5.005.  (In the 5.005_0x maintenance series,
?S: this was the only versioned directory in $sitelib.)
?S:.
?S:api_subversion:
```

```
?S: The three variables, api_revision, api_version, and
?S: api_subversion, specify the version of the oldest perl binary
?S: compatible with the present perl.  In a full version string
?S: such as '5.6.1', api_subversion is the
 '1'.  See api_revision for
?S: full details.
?S:.
?S:api_versionstring:
?S: This variable combines api_revision, api_version, and
?S: api_subversion in a format such as 5.6.1 (or 5_6_1) suitable
?S: for use as a directory name.  This is filesystem dependent.
?S:.
?S:perl_patchlevel:
?S: This is the Perl patch level, a numeric change identifier,
?S: as defined by whichever source code maintenance system
?S: is used to maintain the patches; currently Perforce.
?S: It does not correlate with the Perl version numbers or
?S: the maintenance versus development dichotomy except
?S: by also being increasing.
?S:.
?S:version_patchlevel_string:
?S: This is a string combining version, subversion and
?S: perl_patchlevel (if perl_patchlevel is non-zero).
?S: It is typically something like
?S: 'version 7 subversion 1'  or
?S: 'version 7 subversion 1 patchlevel 11224'
?S: It is computed here to avoid duplication of code in myconfig.SH
?S: and lib/Config.pm.
?S:.
?LINT:extern LC_ALL
?LINT:extern LANGUAGE
:
 get the patchlevel
echo " "
echo "Getting the current patchlevel..." >&4
if $test -r $rsrc/patchlevel.h;then
 revision=`awk '/define[  ]+PERL_REVISION/ {print $3}' $rsrc/patchlevel.h`
 patchlevel=`awk '/define[  ]+PERL_VERSION/ {print $3}' $rsrc/patchlevel.h`
 subversion=`awk '/define[  ]+PERL_SUBVERSION/ {print $3}' $rsrc/patchlevel.h`
 api_revision=`awk '/define[  ]+PERL_API_REVISION/ {print $3}' $rsrc/patchlevel.h`
 api_version=`awk '/define[  ]+PERL_API_VERSION/ {print $3}' $rsrc/patchlevel.h`
 api_subversion=`awk '/define[  ]+PERL_API_SUBVERSION/ {print $3}' $rsrc/patchlevel.h`
 perl_patchlevel=`egrep ',"(MAINT|SMOKE)[0-9][0-9]*"' $rsrc/patchlevel.h|tail -1|sed 's/[^0-9]//g'`
else
 revision=0
 patchlevel=0
 subversion=0
 api_revision=0
```

```
 api_version=0
 api_subversion=0
 perl_patchlevel=0
 $echo "(You do not have patchlevel.h.  Eek.)"
fi
: Define a handy string here to avoid duplication in myconfig.SH and configpm.
version_patchlevel_string="version $patchlevel subversion $subversion"
case
 "$perl_patchlevel" in
0|") ;;
*)  perl_patchlevel=`echo $perl_patchlevel | sed 's/.* //'`
   version_patchlevel_string="$version_patchlevel_string patch $perl_patchlevel"
   ;;
esac

$echo "(You have $package $version_patchlevel_string.)"

case "$osname" in
dos|vms)
 : XXX Should be a Configure test for double-dots in filenames.
 version=`echo $revision $patchlevel $subversion | \
   $awk '{ printf "%d_%d_%d", $1, $2, $3 }'`
 api_versionstring=`echo $api_revision $api_version $api_subversion | \
   $awk '{ printf "%d_%d_%d", $1, $2, $3 }'`
 ;;
*)
 version=`echo $revision $patchlevel $subversion | \
   $awk '{ printf "%d.%d.%d", $1, $2, $3 }'`
 api_versionstring=`echo $api_revision $api_version $api_subversion | \
   $awk '{ printf "%d.%d.%d", $1, $2, $3 }'`
 ;;
esac
: Special case the 5.005_xx maintenance series, which used 5.005
: without any subversion label as a subdirectory in $sitelib
if test "${api_revision}${api_version}${api_subversion}" = "550"; then
 api_versionstring='5.005'
fi
```

Found
 in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/patchlevel.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_lseekproto: Hasproto i_systypes i_unistd
?MAKE: -pick add $@ %<
?S:d_lseekproto:
?S: This variable conditionally defines the HAS_LSEEK_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the lseek() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_LSEEK_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the lseek() function.  Otherwise, it is up
?C: to the program to supply one.  A good guess is
?C:  extern
 off_t lseek(int, off_t, int);
?C:.
?H:#$d_lseekproto HAS_LSEEK_PROTO /**/
?H:.
?LINT:set d_lseekproto
: see if prototype for lseek is available
echo " "
set d_lseekproto lseek $i_systypes sys/types.h $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/d_lseekproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getnent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_getnent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:d_getnent: Inlibc
?MAKE: -pick add $@ %<
?S:d_getnent:
?S: This variable conditionally defines HAS_GETNETENT if getnetent() is
?S: available to look up network names in some data base or another.
?S:.
?C:HAS_GETNETENT:
?C: This symbol, if defined, indicates that the getnetent() routine is
?C: available to look up network names in some data base
 or another.
?C:.
?H:#$d_getnent HAS_GETNETENT  /**/
?H:.
?LINT:set d_getnent
: see if getnetent exists
set getnetent d_getnent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_getnent.U
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```
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```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/bindex
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/makegloss
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/files/fixcpp
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/errnolist.mk
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_scandir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_scandir.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:06:35  ram
```

```
?RCS: patch16: created
?RCS:
?MAKE:d_scandir: Inlibc
?MAKE: -pick add $@ %<
?S:d_scandir:
?S: This variable conditionally defines HAS_SCANDIR if scandir() is
?S: available to scan a directory.
?S:.
?C:HAS_SCANDIR:
?C: This symbol, if defined, indicates that the scandir routine is
?C: available to scan a directory.
?C:.
?H:#$d_scandir HAS_SCANDIR /**/
?H:.
?LINT:set d_scandir
: see if
 scandir exists
set scandir d_scandir
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_scandir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_getspnam: Inlibc
?MAKE: -pick add $@ %<
?S:d_getspnam:
?S: This variable conditionally defines HAS_GETSPNAM if getspnam() is
?S: available to retrieve SysV shadow password entries by name.
?S:.
?C:HAS_GETSPNAM:
?C: This symbol, if defined, indicates that the getspnam system call is
?C: available to retrieve SysV shadow password entries by name.
?C:.
?H:#$d_getspnam HAS_GETSPNAM  /**/
?H:.
?LINT:set d_getspnam
```

```
: see if getspnam exists
set getspnam d_getspnam
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getspnam.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_termio.U,v $
?RCS: Revision 3.0.1.4  1994/10/29  16:20:54  ram
?RCS: patch36: call ./usg and ./Cppsym explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.3  1994/08/29  16:26:38  ram
?RCS: patch32: don't include all three I_* symbols in config.h
?RCS: patch32: (had forgotten to undo this part last time)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:25:03  ram
?RCS: patch27: undone ADO's fix in previous patch since it was useless
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:05:23
 ram
?RCS: patch23: now include all three defines in config.h (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_termio i_sgtty i_termios: test Inlibc Cppsym Guess Setvar Findhdr Warn
?MAKE: -pick add $@ %<
?S:i_termio:
?S: This variable conditionally defines the I_TERMIO symbol, which
?S: indicates to the C program that it should include <termio.h> rather
?S: than <sgtty.h>.
?S:.
?S:i_termios:
?S: This variable conditionally defines the I_TERMIOS symbol, which
?S: indicates to the C program that the POSIX <termios.h> file is
?S: to be included.
```

```
?S:.
?S:i_sgtty:
?S: This variable conditionally defines the I_SGTTY symbol, which
?S: indicates to the C program that it should include <sgtty.h> rather
?S: than <termio.h>.
?S:.
?C:I_TERMIO:
?C: This symbol, if defined, indicates that the program should include
?C: <termio.h> rather than <sgtty.h>.  There are also differences in
?C: the ioctl() calls that depend on the value of
 this symbol.
?C:.
?C:I_TERMIOS:
?C: This symbol, if defined, indicates that the program should include
?C: the POSIX termios.h rather than sgtty.h or termio.h.
?C: There are also differences in the ioctl() calls that depend on the
?C: value of this symbol.
?C:.
?C:I_SGTTY:
?C: This symbol, if defined, indicates that the program should include
?C: <sgtty.h> rather than <termio.h>.  There are also differences in
?C: the ioctl() calls that depend on the value of this symbol.
?C:.
?H:#$i_termio I_TERMIO  /**/
?H:#$i_termios I_TERMIOS  /**/
?H:#$i_sgtty I_SGTTY  /**/
?H:.
?T:val2 val3
?LINT:set i_termio i_sgtty i_termios
: see if this is a termio system
val="$undef"
val2="$undef"
val3="$undef"
?X: Prefer POSIX-approved termios.h over all else
if $test `./findhdr termios.h`; then
 set tcsetattr i_termios
 eval $inlibc
 val3="$i_termios"
fi
echo " "
case "$val3" in
"$define") echo "You have POSIX termios.h... good!" >&4;;
*) if ./Cppsym pyr; then
  case "`/bin/universe`" in
  ucb) if $test `./findhdr
 sgtty.h`; then
    val2="$define"
    echo "<sgtty.h> found." >&4
```

```
  else
   echo "System is pyramid with BSD universe."
   ./warn "<sgtty.h> not found--you could have problems."
  fi;;
 *) if $test `./findhdr termio.h`; then
   val="$define"
   echo "<termio.h> found." >&4
  else
   echo "System is pyramid with USG universe."
   ./warn "<termio.h> not found--you could have problems."
  fi;;
 esac
?X: Start with USG to avoid problems if both usg/bsd was guessed
 elif ./usg; then
  if $test `./findhdr termio.h`; then
   echo "<termio.h> found." >&4
   val="$define"
  elif $test `./findhdr sgtty.h`; then
   echo "<sgtty.h> found." >&4
   val2="$define"
  else
   ./warn "Neither <termio.h> nor <sgtty.h> found--cross fingers!"
  fi
 else
  if $test `./findhdr sgtty.h`; then
   echo "<sgtty.h> found." >&4
   val2="$define"
  elif $test `./findhdr termio.h`; then
   echo "<termio.h> found." >&4
   val="$define"
  else
   ./warn "Neither <sgtty.h> nor <termio.h> found--cross
 fingers!"
  fi
 fi;;
esac
set i_termio; eval $setvar
val=$val2; set i_sgtty; eval $setvar
val=$val3; set i_termios; eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_termio.U
No license file was found, but licenses were detected in source scan.

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, 2012 Raphael Manfredi
?RCS:
```

```
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:byteorder: cat Myread Oldconfig Loc +cc +ccflags rm_try
?MAKE: -pick add $@ %<
?S:byteorder:
?S: This variable holds the byte order. In the following, larger digits
?S: indicate more significance.  The variable byteorder is either 4321
?S: on a big-endian machine, or 1234 on a little-endian, or 87654321
?S: on a Cray ... or 3412 with weird order !
?S:.
?C:BYTEORDER:
?C: This symbol hold the hexadecimal constant defined in byteorder,
?C: i.e. 0x1234 or 0x4321, etc...
?C:.
?H:#define BYTEORDER 0x$byteorder /*
 large digits for MSB */
?H:.
?T:xxx_prompt
?F:!try
: check for ordering of bytes in a long
case "$byteorder" in
")
 $cat <<'EOM'

In the following, larger digits indicate more significance.  A big-endian
machine like a Pyramid or a Motorola 680?0 chip will come out to 4321. A
little-endian machine like a Vax or an Intel 80?86 chip would be 1234. Other
machines may have weird orders like 3412.  A Cray will report 87654321. If
the test program works the default is probably right.
I'm now running the test program...
EOM
 $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
 int i;
 union {
  unsigned long l;
  char c[sizeof(long)];
 } u;

 if (sizeof(long) > 4)
  u.l = (0x08070605L << 32) | 0x04030201L;
 else
```

```
  u.l = 0x04030201L;
 for (i = 0; i < sizeof(long); i++)
  printf("%c", u.c[i]+'0');
 printf("\n");
 exit(0);
}
EOCP
 xxx_prompt=y
 if $cc $ccflags -o try try.c >/dev/null 2>&1 && ./try > /dev/null; then
  dflt=`./try`
  case "$dflt" in
  [1-4][1-4][1-4][1-4]|12345678|87654321)
   echo
 "(The test program ran ok.)"
   echo "byteorder=$dflt"
   xxx_prompt=n
   ;;
  ????|????????) echo "(The test program ran ok.)" ;;
  *) echo "(The test program didn't run right for some reason.)" ;;
  esac
 else
  dflt='4321'
  cat <<'EOM'
(I can't seem to compile the test program.  Guessing big-endian...)
EOM
 fi
 case "$xxx_prompt" in
 y)
  rp="What is the order of bytes in a long?"
  . ./myread
  byteorder="$ans"
  ;;
 *) byteorder=$dflt
  ;;
 esac
 ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/byteorder.U
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?RCS:
?MAKE:i_fenv: Inhdr

```
?MAKE: -pick add $@ %<
?S:i_fenv:
?S: This variable conditionally defines the I_FENV symbol, which
?S: indicates to the C program that <fenv.h> exists and should
?S: be included.
?S:.
?C:I_FENV:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <fenv.h> to get the floating point environment definitions.
?C:.
?H:#$i_fenv I_FENV  /**/
?H:.
?LINT:set i_fenv
: see if this is a fenv.h system
set fenv.h i_fenv
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_fenv.U
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```
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?RCS:
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?RCS:
?MAKE:d_sqrtl: Inlibc
?MAKE: -pick add $@ %<
?S:d_sqrtl:
?S: This variable conditionally defines the HAS_SQRTL symbol, which
?S: indicates to the C program that the sqrtl() routine is available.
?S:.
?C:HAS_SQRTL:
?C: This symbol, if defined, indicates that the sqrtl routine is
?C: available to do long double square roots.
?C:.
?H:#$d_sqrtl HAS_SQRTL  /**/
?H:.
?LINT:set d_sqrtl
: see if sqrtl exists
set sqrtl d_sqrtl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/U/perl/d_sqrtl.U
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```
?RCS: $Id: d_setlnbuf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_setlnbuf.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:11:57  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_setlinebuf: Inlibc
?MAKE: -pick add $@ %<
?S:d_setlinebuf:
?S: This variable conditionally defines the HAS_SETLINEBUF symbol, which
?S: indicates to the C program that the setlinebuf() routine is available
?S: to change stderr or stdout from block-buffered or unbuffered
 to a
?S: line-buffered mode.
?S:.
?C:HAS_SETLINEBUF :
?C: This symbol, if defined, indicates that the setlinebuf routine is
?C: available to change stderr or stdout from block-buffered or unbuffered
?C: to a line-buffered mode.
?C:.
?H:#$d_setlinebuf HAS_SETLINEBUF  /**/
?H:.
?LINT:set d_setlinebuf
: see if setlinebuf exists
set setlinebuf d_setlinebuf
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setlnbuf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getgrent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getgrent_r getgrent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_grp extern_C
?MAKE: -pick add $@ %<
?S:d_getgrent_r:
?S: This variable conditionally defines the HAS_GETGRENT_R symbol,
?S: which indicates to the C program that the getgrent_r()
?S: routine is available.
?S:.
?S:getgrent_r_proto:
?S: This variable encodes the prototype of getgrent_r.
?S: It is zero if d_getgrent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getgrent_r
?S: is defined.
?S:.
?C:HAS_GETGRENT_R:
?C: This symbol, if defined, indicates that the getgrent_r routine
?C: is available to
 getgrent re-entrantly.
?C:.
?C:GETGRENT_R_PROTO:
?C: This symbol encodes the prototype of getgrent_r.
?C: It is zero if d_getgrent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getgrent_r
?C: is defined.
?C:.
?H:#$d_getgrent_r HAS_GETGRENT_R /**/
?H:#define GETGRENT_R_PROTO $getgrent_r_proto /**/
?H:.
?T:try hdrs d_getgrent_r_proto
: see if getgrent_r exists
set getgrent_r d_getgrent_r
eval $inlibc
case "$d_getgrent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_grp grp.h"
 case "$d_getgrent_r_proto:$usethreads" in
 ":define") d_getgrent_r_proto=define
  set d_getgrent_r_proto getgrent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getgrent_r_proto" in
 define)
```

```
 case "$getgrent_r_proto" in
 "|0) try='int getgrent_r(struct group*, char*, size_t, struct group**);'
 ./protochk "$extern_C $try" $hdrs && getgrent_r_proto=I_SBWR ;;
 esac
 case "$getgrent_r_proto" in
 "|0) try='int getgrent_r(struct group*, char*, int, struct group**);'
 ./protochk
 "$extern_C $try" $hdrs && getgrent_r_proto=I_SBIR ;;
 esac
 case "$getgrent_r_proto" in
 "|0) try='struct group* getgrent_r(struct group*, char*, size_t);'
 ./protochk "$extern_C $try" $hdrs && getgrent_r_proto=S_SBW ;;
 esac
 case "$getgrent_r_proto" in
 "|0) try='struct group* getgrent_r(struct group*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getgrent_r_proto=S_SBI ;;
 esac
 case "$getgrent_r_proto" in
 "|0) try='int getgrent_r(struct group*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getgrent_r_proto=I_SBI ;;
 esac
 case "$getgrent_r_proto" in
 "|0) try='int getgrent_r(struct group*, char*, int, FILE**);'
 ./protochk "$extern_C $try" $hdrs && getgrent_r_proto=I_SBIH ;;
 esac
 case "$getgrent_r_proto" in
 "|0) d_getgrent_r=undef
  getgrent_r_proto=0
  echo "Disabling getgrent_r, cannot determine prototype." >&4 ;;
 * ) case "$getgrent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getgrent_r_proto="REENTRANT_PROTO_$getgrent_r_proto" ;;
  esac
  echo "Prototype:
 $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getgrent_r has no prototype, not using it." >&4 ;;
  esac
  d_getgrent_r=undef
  getgrent_r_proto=0
  ;;
 esac
 ;;
*) getgrent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getgrent_r.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_lc_monetary_2008: cat Compile rm_try d_locconv
?MAKE: -pick add $@ %<
?S:d_lc_monetary_2008:
?S: This variable conditionally defines HAS_LC_MONETARY_2008 if libc
?S: has the international currency locale rules from POSIX
?S: 1003.1-2008.
?S:.
?C:HAS_LC_MONETARY_2008:
?C: This symbol, if defined, indicates that the localeconv routine is
?C: available and has the additional members added in POSIX 1003.1-2008.
?C:.
?H:#$d_lc_monetary_2008 HAS_LC_MONETARY_2008  /**/
?H:.
: see if libc has the POSIX.1-2008 currency locale rules
case "$d_locconv:$d_lc_monetary_2008" in
$define:)
 $cat
 >try.c <<EOCP
#include <locale.h>
int main() {
 struct lconv *lc = localeconv();
 char int_p_cs_precedes = lc->int_p_cs_precedes;
 return 0;
}
EOCP
 set try
 if eval $compile; then
  d_lc_monetary_2008="$define"
 else
  d_lc_monetary_2008="$undef"
 fi;
 $rm_try
 ;;
esac
```

Found in path(s):

* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lc_monetary_2008.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_access.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_access: test +cc cat +cppflags h_fcntl h_sysfile rm Inlibc Findhdr
?MAKE: -pick add $@ %<
?S:d_access:
?S: This variable conditionally defines HAS_ACCESS if the access() system
?S: call is available to check for access permissions using real IDs.
?S:.
?C:HAS_ACCESS:
?C: This manifest constant lets the C program know that the access()
?C: system call is available to check for accessibility
 using real UID/GID.
?C: (always present on UNIX.)
?C:.
?H:#$d_access HAS_ACCESS  /**/
?H:.
?W:%<:R_OK W_OK X_OK F_OK
?LINT:set d_access
?LINT:change h_fcntl h_sysfile
: access call always available on UNIX
set access d_access
eval $inlibc

: locate the flags for 'access()'
case "$d_access" in
"$define")
 echo " "
 $cat >access.c <<'EOCP'
#include <sys/types.h>
#ifdef I_FCNTL
#include <fcntl.h>
#endif
```

```
#ifdef I_SYS_FILE
#include <sys/file.h>
#endif
#ifdef I_UNISTD
#include <unistd.h>
#endif
int main() {
 exit(R_OK);
}
EOCP
 : check sys/file.h first, no particular reason here
 if $test `./findhdr sys/file.h` && \
  $cc -o access $cppflags -DI_SYS_FILE access.c >/dev/null 2>&1 ; then
  h_sysfile=true;
  echo "<sys/file.h> defines the *_OK access constants." >&4
 elif $test `./findhdr fcntl.h` && \
  $cc -o access $cppflags -DI_FCNTL access.c >/dev/null 2>&1 ; then
  h_fcntl=true;
  echo "<fcntl.h> defines the *_OK access constants." >&4
@if I_UNISTD
 elif $test `./findhdr unistd.h`
 && \
  $cc -o access $cppflags -DI_UNISTD access.c >/dev/null 2>&1 ; then
  echo "<unistd.h> defines the *_OK access constants." >&4
@end
 else
  echo "I can't find the four *_OK access constants--I'll use mine." >&4
 fi
 ;;
esac
$rm -f access*
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_access.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysuio.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysuio: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysuio:
?S: This variable conditionally defines the I_SYSUIO symbol, and indicates
```

```
?S: whether a C program should include <sys/uio.h>.
?S:.
?C:I_SYSUIO:
?C: This symbol, if defined, indicates that <sys/uio.h> exists and
?C: should be included.
?C:.
?H:#$i_sysuio I_SYSUIO  /**/
?H:.
?LINT:set i_sysuio
: see if this is a sys/uio.h system
set sys/uio.h i_sysuio
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_sysuio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_syslog.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_syslog: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_syslog:
?S: This variable conditionally defines the I_SYSLOG symbol,
?S: and indicates whether a C program should include <syslog.h>.
?S:.
?C:I_SYSLOG:
?C: This symbol, if defined, indicates that <syslog.h> exists and
?C: should be included.
?C:.
?H:#$i_syslog I_SYSLOG  /**/
?H:.
?LINT:set i_syslog
: see if this is a syslog.h system
set syslog.h i_syslog
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_syslog.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_times.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:07:50  ram
?RCS: patch56: typo fix, sytem -> system
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:14:00  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: What is the type returned by times() ?
?X:
?X: Force inclusion of <sys/types.h>
?X:INC: i_systypes
?MAKE:d_times clocktype: Csym Myread Typedef i_systimes
?MAKE: -pick
 add $@ %<
?S:d_times:
?S: This variable conditionally defines the HAS_TIMES symbol, which indicates
?S: that the times() routine exists.  The times() routine is normally
?S: provided on UNIX systems. You may have to include <sys/times.h>.
?S:.
?S:clocktype:
?S: This variable holds the type returned by times(). It can be long,
?S: or clock_t on BSD sites (in which case <sys/types.h> should be
?S: included).
?S:.
?C:HAS_TIMES (TIMES):
?C: This symbol, if defined, indicates that the times() routine exists.
?C: Note that this became obsolete on some systems (SUNOS), which now
?C: use getrusage(). It may be necessary to include <sys/times.h>.
?C:.
?C:Clock_t (CLOCKTYPE):
?C: This symbol holds the type returned by times(). It can be long,
?C: or clock_t on BSD sites (in which case <sys/types.h> should be
?C: included).
?C:.
?H:#$d_times HAS_TIMES  /**/
```

```
?H:#define Clock_t $clocktype /* Clock time */
?H:.
?T:val inc
: see if times exists
echo " "
if set times val -f d_times; eval $csym;
 $val; then
 echo 'times() found.' >&4
 d_times="$define"
 inc=''
 case "$i_systimes" in
 "$define") inc='sys/times.h';;
 esac
 set clock_t clocktype long stdio.h sys/types.h $inc
 eval $typedef
 dflt="$clocktype"
 echo " "
 rp="What type is returned by times() on this system?"
 . ./myread
 clocktype="$ans"
else
 echo 'times() NOT found, hope that will do.' >&4
 d_times="$undef"
?X: The following is needed for typedef (won't like an empty variable)
 clocktype='int'
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_times.U
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```
?RCS: $Id: d_getopt.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getopt.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getopt: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_getopt:
?S: This variable conditionally defines the HAS_GETOPT symbol, which
?S: indicates that the getopt() routine exists.  The getopt() routine
?S: parses command line options in a standard fashion.
?S:.
?C:HAS_GETOPT (GETOPT):
?C: This symbol, if defined, indicates that the getopt() routine
 exists.
?C:.
?H:#$d_getopt HAS_GETOPT  /**/
?H:.
?LINT:set d_getopt
: see if getopt exists
set getopt d_getopt
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getopt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: siteprefix.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: siteprefix.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:siteprefix siteprefixexp +oldsiteprefix: Getfile Loc Oldconfig cat package prefix
?MAKE: -pick add $@ %<
?S:siteprefix:
?S: This variable holds the full absolute path of the directory below
?S: which the user will install add-on packages.
?S: See INSTALL for usage and examples.
?S:.
?S:siteprefixexp:
?S: This variable holds the full absolute path of the
 directory below
?S: which the user will install add-on packages.  Derived from siteprefix.
?S:.
?S:oldsiteprefix:
```

```
?S: This variable is set non-null if the siteprefix was previously defined
?S: and gets set to a new value. Used internally by Configure only.
?S:.
: Set the siteprefix variables
$cat <<EOM

After $package is installed, you may wish to install various
add-on modules and utilities.  Typically, these add-ons will
be installed under $prefix with the rest
of this package.  However, you may wish to install such add-ons
elsewhere under a different prefix.

If you do not wish to put everything under a single prefix, that's
ok.  You will be prompted for the individual locations; this siteprefix
is only used to suggest the defaults.

The default should be fine for most people.

EOM
fn=d~+
rp='Installation prefix to use for add-on modules and utilities?'
: XXX Here might be another good place for an installstyle setting.
case "$siteprefix" in
") dflt=$prefix ;;
*)  dflt=$siteprefix
 ;;
esac
. ./getfile
: XXX Prefixit unit does not yet support siteprefix and vendorprefix
oldsiteprefix="
case "$siteprefix" in
") ;;
*) case "$ans" in
 "$prefix") ;;
 *) oldsiteprefix="$prefix";;
 esac
 ;;
esac
siteprefix="$ans"
siteprefixexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/siteprefix.U
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```
?RCS: $Id$
?RCS:
```

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Guess.U,v $
?RCS: Revision 3.0.1.5  1995/07/25  13:37:14  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  15:53:55  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: call ./xenix explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.3  1993/12/15  08:14:35  ram
?RCS: patch15: variable d_bsd was not always set properly
?RCS:
?RCS: Revision 3.0.1.2  1993/08/30  08:57:14  ram
?RCS: patch8: fixed comment which wrongly
 attributed the usrinc symbol
?RCS: patch8: no more ugly messages when no /usr/include/ctype.h
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:37:37  ram
?RCS: patch7: added support for OSF/1 machines
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit hazards some guesses as to what the general nature of the system
?X: is.  The information it collects here is used primarily to establish default
?X: answers to other questions.
?X:
?MAKE:Guess d_eunice d_xenix d_bsd d_linux d_dos d_os2: cat test echo n c \
 contains rm tr Loc eunicefix
?MAKE: -pick add $@ %<
?S:d_eunice:
?S: This variable conditionally defines the symbols EUNICE_SYSTEM, which
?S: alerts the C program that it must deal with ideosyncracies of VMS.
?S:.
?S:d_xenix:
?S: This variable conditionally defines the symbol XENIX_SYSTEM, which alerts
?S: the C program that it runs under Xenix.
?S:.
?S:d_dos:
?S: This symbol conditionally defines the symbol DOS_SYSTEM
```

```
 when running on
?S: DOS with DJGPP or Cygwin.
?S:.
?S:d_os2:
?S: This symbol conditionally defines the symbol OS2_SYSTEM when running on
?S: an OS/2 system.
?S:.
?S:d_bsd:
?S: This symbol conditionally defines the symbol BSD_SYSTEM when running on a
?S: BSD system.
?S:.
?S:d_linux:
?S: This symbol conditionally defines the symbol LINUX_SYSTEM when running
?S: on a Linux system.
?S:.
?C:EUNICE_SYSTEM (EUNICE):
?C: This symbol, if defined, indicates that the program is being compiled
?C: under the EUNICE package under VMS.  The program will need to handle
?C: things like files that don't go away the first time you unlink them,
?C: due to version numbering.  It will also need to compensate for lack
?C: of a respectable link() command.
?C:.
?C:VMS_SYSTEM (VMS):
?C: This symbol, if defined, indicates that the program is running under
?C: VMS.  It is currently only set in conjunction with the EUNICE symbol.
?C:.
?C:XENIX_SYSTEM (XENIX):
?C: This symbol, if defined, indicates that the program
 is running under
?C: Xenix (at least 3.0 ?).
?C:.
?C:DOS_SYSTEM:
?C: This symbol, if defined, indicates that the program is running under
?C: DOS with DJGPP.
?C:.
?C:OS2_SYSTEM:
?C: This symbol, if defined, indicates that the program is running under
?C: an OS/2 system.
?C:.
?C:BSD_SYSTEM:
?C: This symbol, if defined, indicates that the program is running under
?C: a BSD system.
?C:.
?C:LINUX_SYSTEM:
?C: This symbol, if defined, indicates that the program is running under
?C: a Linux system.
?C:.
?H:#$d_eunice EUNICE_SYSTEM  /**/
```

```
?H:#$d_eunice VMS_SYSTEM  /**/
?H:#$d_xenix XENIX_SYSTEM  /**/
?H:#$d_dos DOS_SYSTEM  /**/
?H:#$d_os2 OS2_SYSTEM  /**/
?H:#$d_bsd BSD_SYSTEM  /**/
?H:#$d_linux LINUX_SYSTEM  /**/
?H:.
?F:./bsd ./usg ./v7 ./osf1 ./eunice ./xenix ./venix ./dos ./os2 ./gnu ./linux
?T:xxx DJGPP MACHTYPE
: make some quick guesses about what we are up against
echo " "
$echo $n "Hmm...  $c"
echo exit 1 >bsd
echo exit 1 >usg
echo exit 1 >v7
echo exit 1 >osf1
echo exit 1 >eunice
echo
 exit 1 >xenix
echo exit 1 >venix
echo exit 1 >os2
echo exit 1 >gnu
echo exit 1 >linux
echo exit 1 >dos
d_bsd="$undef"
d_linux="$undef"
d_dos="$undef"
d_os2="$undef"
?X:
?X: Do not use 'usrinc', or we get a circular dependency. because
?X: usrinc is defined in usrinc.U, which relies on us...
?X:
$cat /usr/include/signal.h /usr/include/sys/signal.h >foo 2>/dev/null
if test -f /osf_boot || $contains 'OSF/1' /usr/include/ctype.h >/dev/null 2>&1
then
 echo "Looks kind of like an OSF/1 system, but we'll see..."
 echo exit 0 >osf1
elif test `echo abc | $tr a-z A-Z` = Abc ; then
 xxx=`./loc addbib blurfl $pth`
 if $test -f $xxx; then
 echo "Looks kind of like a USG system with BSD features, but we'll see..."
  echo exit 0 >bsd
  echo exit 0 >usg
 else
  if $contains SIGTSTP foo >/dev/null 2>&1 ; then
   echo "Looks kind of like an extended USG system, but we'll see..."
  else
   echo "Looks kind of like a USG system, but we'll see..."
```

```
  fi
  echo exit 0 >usg
 fi
elif $contains SIGTSTP foo >/dev/null
 2>&1 ; then
 echo "Looks kind of like a BSD system, but we'll see..."
 d_bsd="$define"
 echo exit 0 >bsd
elif
 $rm --version 2>/dev/null >foo;
 $contains "Free Software Foundation" foo >/dev/null
then
 xxx=`uname`
 echo exit 0 >gnu
 echo "Looks kind of like a GNU/$xxx system, but we'll see..."
 if $test X$xxx = XLinux; then
  d_linux="$define"
  echo exit 0 >linux
 fi
else
 echo "Looks kind of like a Version 7 system, but we'll see..."
 echo exit 0 >v7
fi
case "$eunicefix" in
*unixtovms*)
 $cat <<'EOI'
There is, however, a strange, musty smell in the air that reminds me of
something...hmm...yes...I've got it...there's a VMS nearby, or I'm a Blit.
EOI
 echo exit 0 >eunice
 d_eunice="$define"
: it so happens the Eunice I know will not run shell scripts in Unix format
 ;;
*)
 echo " "
 echo "Congratulations.  You aren't running Eunice."
 d_eunice="$undef"
 ;;
esac
case "$p_" in
:) ;;
*)
 $cat <<'EOI'
I have the feeling something is not exactly right, however...don't tell me...
EOI
 if
 test -n "$DJGPP"; then
  case "X${MACHTYPE:-nonesuchmach}" in
```

```
  cygwin) echo "hah!... you're running under Cygwin!";;
  *) echo "got it... you're running DOS with DJGPP!";;
  esac
  echo exit 0 >dos
  d_dos="$define"
 else
  $cat <<'EOI'
lemme think...does HAL ring a bell?...no, of course, you're only running OS/2!
EOI
  echo exit 0 >os2
  d_os2="$define"
 fi
 ;;
esac
if test -f /xenix; then
 echo "Actually, this looks more like a XENIX system..."
 echo exit 0 >xenix
 d_xenix="$define"
else
 echo " "
 echo "It's not Xenix..."
 d_xenix="$undef"
fi
chmod +x xenix
$eunicefix xenix
if test -f /venix; then
 echo "Actually, this looks more like a VENIX system..."
 echo exit 0 >venix
else
 echo " "
 if ./xenix; then
  : null
 else
  echo "Nor is it Venix..."
 fi
fi
chmod +x bsd usg v7 osf1 eunice xenix venix dos os2 gnu linux
$eunicefix bsd usg v7 osf1 eunice xenix venix dos os2 gnu linux
$rm -f foo
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Guess.U
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:
?RCS: Copyright (c) 2009 H.Merijn Brand

```
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getnameinfo: Inlibc
?MAKE: -pick add $@ %<
?S:d_getnameinfo:
?S: This variable conditionally defines the HAS_GETNAMEINFO symbol,
?S: which indicates to the C program that the getnameinfo() function
?S: is available.
?S:.
?C:HAS_GETNAMEINFO:
?C: This symbol, if defined, indicates that the getnameinfo() function
?C: is available for use.
?C:.
?H:#$d_getnameinfo HAS_GETNAMEINFO  /**/
?H:.
?LINT:set d_getnameinfo
: see if getnameinfo exists
set getnameinfo d_getnameinfo
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getnameinfo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_bsdjmp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_bsdjmp.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:31:10  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:09:09  ram
?RCS: patch36: call ./usg explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_bsdjmp: Guess Setvar cat +cc libs rm
```

```
?MAKE: -pick add $@ %<
?S:d_bsdjmp:
?S: This variable conditionally defines USE_BSDJMP
 if BSD _setjmp and
?S: _longjmp routines are available to do non-local gotos without saving
?S: or restoring the signal mask flag.
?S:.
?C:USE_BSDJMP (BSDJMP):
?C: This symbol, if defined, indicates that the BSD _setjmp and _longjmp
?C: routines are available to do non-local gotos wihtout saving or restoring
?C: the signal mask flag.
?C:.
?H:#$d_bsdjmp USE_BSDJMP  /**/
?H:.
?F:!set
?LINT:set d_bsdjmp
: see if _setjmp and _longjmp exists
?X: We can't check for these symbols with Inlibc because of the leading "_"
echo " "
case "$d_bsdjmp" in
")
 $cat >set.c <<EOP
#include <setjmp.h>
jmp_buf env;
int set = 1;
int main()
{
 if (_setjmp(env))
  exit(set);
 set = 0;
 _longjmp(env, 1);
 exit(1);
}
EOP
 if $cc -o set set.c $libs >/dev/null 2>&1; then
  if ./set >/dev/null 2>&1; then
   echo "Good! You have BSD _setjmp and _longjmp routines." >&4
   val="$define"
  else
   $cat <<EOM
Uh-Oh! You have BSD _setjmp and _longjmp, but they do not work properly!!
EOM
   val="$undef"
  fi
 else
  if
 ./usg; then
   echo "You do not have _setjmp and _longjmp, but that's fine." >&4
```

```
  else
   cat <<EOM
It sounds strange for a BSD system to miss _setjmp and _longjmp, but that's ok.
EOM
  fi
  val="$undef"
 fi
 ;;
*) val="$d_bsdjmp"
 case "$d_bsdjmp" in
 $define) echo "Good! You have BSD _setjmp and _longjmp routines." >&4;;
 $undef) echo "You do not have _setjmp and _longjmp, but that's fine." >&4;;
 esac
 ;;
esac
set d_bsdjmp
eval $setvar
$rm -f set.c set
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_bsdjmp.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: doublesize.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:17:06  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:06  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:doublesize: cat rm_try Myread +cc +ccflags
?MAKE: -pick add $@ %<
?S:doublesize:
?S: This variable contains the value of the DOUBLESIZE symbol, which
?S: indicates to the C program how many bytes there are in a double.
?S:.
?C:DOUBLESIZE:
```

```
?C: This symbol contains the
 size of a double, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define DOUBLESIZE $doublesize  /**/
?H:.
?F:!try
: check for length of double
echo " "
case "$doublesize" in
")
 echo "Checking to see how big your double precision numbers are..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
 printf("%d\n", sizeof(double));
}
EOCP
 if $cc $ccflags -o try try.c >/dev/null 2>&1 ; then
  dflt=`./try`
 else
  dflt='8'
  echo "(I can't seem to compile the test program.  Guessing...)"
 fi
 ;;
*)
 dflt="$doublesize"
 ;;
esac
rp="What is the size of a double precision number (in bytes)?"
. ./myread
doublesize="$ans"
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/doublesize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sh.U,v 3.0.1.1 1997/02/28 16:20:13 ram Exp $
?RCS:
?RCS: Copyright (c) 1997, Chip Salzenberg
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```

```
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sh.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:20:13  ram
?RCS: patch61: created
?RCS:
?MAKE:sh targetsh: Head
?MAKE: -pick wipe $@ %<
?S:sh:
?S: This variable contains the full pathname of the shell used
?S: on this system to execute Bourne shell scripts.  Usually, this will be
?S: /bin/sh, though it's possible that some systems will have /bin/ksh,
?S: /bin/pdksh, /bin/ash, /bin/bash, or even something such as
?S: D:/bin/sh.exe.
?S: This
 unit comes before Options.U, so you can't set sh with a -D
?S: option, though you can override this (and startsh)
?S: with -O -Dsh=/bin/whatever -Dstartsh=whatever
?S:.
?S:targetsh:
?S: If cross-compiling, this variable contains the location of sh on the
?S: target system.
?S: If not, this will be the same as $sh.
?S:.
?C:SH_PATH:
?C: This symbol contains the full pathname to the shell used on this
?C: on this system to execute Bourne shell scripts.  Usually, this will be
?C: /bin/sh, though it's possible that some systems will have /bin/ksh,
?C: /bin/pdksh, /bin/ash, /bin/bash, or even something such as
?C: D:/bin/sh.exe.
?C:.
?H:#define SH_PATH "$targetsh"  /**/
?H:.
?T:xxx try pth p SYSTYPE
?LINT:extern maintloc maintname _exe
?X:
?X: Be quiet unless something unusual happens because this gets
?X: loaded up even before options are processed.
?X: Can't use ./loc because that depends on startsh, which, in turn
?X: depends on this unit.
?X:
: Find the basic shell for
 Bourne shell scripts
case "$sh" in
")
?X: SYSTYPE is for some older MIPS systems.
?X: I do not know if it is still needed.
```

```
 case "$SYSTYPE" in
 *bsd*|sys5*) xxx="/$SYSTYPE/bin/sh";;
 *) xxx='/bin/sh';;
 esac
 if test -f "$xxx"; then
  sh="$xxx"
 else
  : Build up a list and do a single loop so we can 'break' out.
  pth=`echo $PATH | sed -e "s/$p_/ /g"`
  for xxx in sh bash ksh pdksh ash; do
   for p in $pth; do
    try="$try ${p}/${xxx}"
   done
  done
  for xxx in $try; do
   if test -f "$xxx"; then
    sh="$xxx";
    break
   elif test "X$_exe" != X -a -f "$xxx$_exe"; then
    sh="$xxx";
    break
   elif test -f "$xxx.exe"; then
    sh="$xxx";
    break
   fi
  done
 fi
 ;;
esac

?X: fd 4 isn't open yet...
case "$sh" in
") cat >&2 <<EOM
$me:  Fatal Error:  I can't find a Bourne Shell anywhere.

Usually it's in /bin/sh.  How did you even get this far?
Please report this issue at <$maintloc>
and we'll try to straighten this all out.
EOM
 exit 1
 ;;
esac

: When cross-compiling we
 need to separate the sh-to-run-Configure-with from the sh-to-use-in-Perl
: default both to the same thing, cross-compilers can then set targetsh differently if they like
targetsh=$sh
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/sh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Myinit.U,v 3.0 1993/08/18 12:05:07 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
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?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: Myinit.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: If you want to initialize any default values, copy this unit to your
?X: personal U directory and add the assignments to the end.  This file
?X: is included after variables are initialized but before any old
?X: config.sh file is read in and before any Configure switch processing.
?X:
?MAKE:Myinit
 libswanted: Init
?MAKE: -pick add $@ %<
?S:libswanted:
?S: This variable holds a list of all the libraries we want to
?S: search.  The order is chosen to pick up the c library
?S: ahead of ucb or bsd libraries for SVR4.
?S:.
?LINT:extern usevfork glibpth
?LINT:change usevfork glibpth
: List of libraries we want.
?X: Put crypt here, even though I should really fix d_crypt.U to look
?X: for it correctly, including possible shared library versions.
: If anyone needs extra -lxxx, put those in a hint file.
libswanted="cl pthread socket bind inet nsl ndbm gdbm dbm db malloc dl ld"
libswanted="$libswanted sun m crypt sec util c cposix posix ucb bsd BSD"
: We probably want to search /usr/shlib before most other libraries.
: This is only used by the lib/ExtUtils/MakeMaker.pm routine extliblist.
glibpth=`echo " $glibpth " | sed -e 's! /usr/shlib ! !'`
glibpth="/usr/shlib $glibpth"
: Do not use vfork unless overridden by a hint file.
usevfork=false
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Myinit.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: errnolist.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:48:01  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: likewise for .o replaced by $_o
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:10:54  ram
?RCS: patch16: created
?RCS:
?MAKE:errnolist errnolist_SH errnolist_a errnolist_c errnolist_o: cat +cc \
 +ccflags +libs +d_sysernlst _a _o
?MAKE: -pick add $@ %<
?S:errnolist:
?S: This variable holds the base name of a file containing the
?S: definition of the sys_errnolist
 array, if the C library
?S: doesn't provide it already.  Otherwise, its value is empty.
?S: The following lines should be included in your Makefile.SH:
?S:
?S:  case "$errnolist" in
?S:  ") ;;
?S:  *)
?S:   $spitshell >>Makefile <<!GROK!THIS!
?S:  $errnolist_c: $errnolist_SH $errnolist_a
?S:   sh ./$errnolist_SH
?S:
?S:  !GROK!THIS!
?S:   ;;
?S:  esac
?S:
?S: You may define the 'errnolist' variable in your Myinit.U if you
?S: wish to override its default value "errnolist".
?S:.
```

```
?S:errnolist_SH:
?S: This is the name of a file which will generate errnolistc.
?S:.
?S:errnolist_a:
?S: This is the name of the awk script called by errnolist_SH.
?S:.
?S:errnolist_c:
?S: This is the name of a generated C file which provides the
?S: definition of the sys_errnolist array.
?S:.
?S:errnolist_o:
?S: This is the name of the object file which provides the
?S: definition of the sys_errnolist array, if the C library
?S: doesn't provide it already.  Otherwise, its value is empty.
?S:.
?INIT:errnolist=errnolist
:
 check for sys_errnolist
@if d_sysernlst || HAS_SYS_ERRNOLIST
case "$d_sysernlst" in
"$define")
   errnolist=''
   errnolist_SH=''
   errnolist_a=''
   errnolist_c=''
   errnolist_o=''
 ;;
*)
 echo " "
 echo "I'll make sure your Makefile provides sys_errnolist in $errnolist.c"
   errnolist_SH=$errnolist.SH
   errnolist_a=$errnolist$_a
   errnolist_c=$errnolist.c
   errnolist_o=$errnolist$_o
 ;;
esac
@else
echo " "
$cat <<EOM
Checking to see if your C library provides us with sys_errnolist[]...
EOM
$cat >errnolist.c <<'EOCP'
extern char *sys_errnolist[];
int main() {
   char *p0 = sys_errnolist[0];
   char *p1 = sys_errnolist[1];

   return (p0 == p1); /* Make sure they're not optimized away */
```

```
}
EOCP
if $cc $ccflags -o errnolist errnolist.c $libs >/dev/null 2>&1 ; then
   echo "It does."
   errnolist=''
   errnolist_SH=''
   errnolist_a=''
   errnolist_c=''
   errnolist_o=''
else
 echo "I'll make sure your Makefile provides sys_errnolist in $errnolist.c"

   errnolist_SH=$errnolist.SH
   errnolist_a=$errnolist$_a
   errnolist_c=$errnolist.c
   errnolist_o=$errnolist$_o
fi
@end
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/errnolist.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_db.U,v $
?RCS: Revision 3.0.1.3  1995/07/25  14:10:22  ram
?RCS: patch56: conditionally use const in test programs (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1995/05/12  12:14:42  ram
?RCS: patch54: extended for more intimate DB probing (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:21:50  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:i_db db_hashtype db_prefixtype: Inhdr +cc +ccflags rm_try contains cat \
  d_const
```

```
?MAKE: -pick
 add $@ %<
?S:i_db:
?S: This variable conditionally defines the I_DB symbol, and indicates
?S: whether a C program may include Berkeley's DB include file <db.h>.
?S:.
?S:db_hashtype:
?S: This variable contains the type of the hash structure element
?S: in the <db.h> header file.  In older versions of DB, it was
?S: int, while in newer ones it is u_int32_t.
?S:.
?S:db_prefixtype:
?S: This variable contains the type of the prefix structure element
?S: in the <db.h> header file.  In older versions of DB, it was
?S: int, while in newer ones it is size_t.
?S:.
?C:I_DB:
?C: This symbol, if defined, indicates to the C program that it should
?C: include Berkeley's DB include file <db.h>.
?C:.
?C:DB_Prefix_t:
?C: This symbol contains the type of the prefix structure element
?C: in the <db.h> header file.  In older versions of DB, it was
?C: int, while in newer ones it is u_int32_t.
?C:.
?C:DB_Hash_t:
?C: This symbol contains the type of the prefix structure element
?C: in the <db.h> header
 file.  In older versions of DB, it was
?C: int, while in newer ones it is size_t.
?C:.
?H:#$i_db I_DB  /**/
?H:#define DB_Hash_t $db_hashtype  /**/
?H:#define DB_Prefix_t $db_prefixtype   /**/
?H:.
?LINT:set i_db
: see if this is a db.h system
set db.h i_db
eval $inhdr

@if DB_Hash_t
case "$i_db" in
define)
 : Check the return type needed for hash
 echo " "
 echo "Checking return type needed for hash for Berkeley DB ..." >&4
 $cat >try.c <<EOCP
#$d_const HASCONST
```

```
#ifndef HASCONST
#define const
#endif
#include <sys/types.h>
#include <db.h>
u_int32_t hash_cb (ptr, size)
const void *ptr;
size_t size;
{
}
HASHINFO info;
int main()
{
 info.hash = hash_cb;
}
EOCP
 if $cc $ccflags -c try.c >try.out 2>&1 ; then
  if $contains warning try.out >>/dev/null 2>&1 ; then
   db_hashtype='int'
  else
   db_hashtype='u_int32_t'
  fi
 else
  echo "I can't seem to compile the test program." >&4
  db_hashtype=int
 fi
 $rm_try
 echo "Your version of Berkeley DB uses $db_hashtype for hash."
 ;;
*) db_hashtype=int
 ;;
esac

@end
@if
 DB_Prefix_t
case "$i_db" in
define)
 : Check the return type needed for prefix
 echo " "
 echo "Checking return type needed for prefix for Berkeley DB ..." >&4
 cat >try.c <<EOCP
#$d_const HASCONST
#ifndef HASCONST
#define const
#endif
#include <sys/types.h>
#include <db.h>
```

```
size_t prefix_cb (key1, key2)
const DBT *key1;
const DBT *key2;
{
}
BTREEINFO info;
int main()
{
 info.prefix = prefix_cb;
}
EOCP
 if $cc $ccflags -c try.c  >try.out 2>&1 ; then
  if $contains warning try.out >>/dev/null 2>&1 ; then
   db_prefixtype='int'
  else
   db_prefixtype='size_t'
  fi
 else
  echo "I can't seem to compile the test program." >&4
  db_prefixtype='int'
 fi
 $rm_try
 echo "Your version of Berkeley DB uses $db_prefixtype for prefix."
 ;;
*) db_prefixtype='int'
 ;;
esac

@end
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_db.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999-2016 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_PRIfldbl sPRIfldbl d_PRIgldbl d_PRIFUldbl sPRIGUldbl d_PRIEUldbl \
 sPRIgldbl d_PRIeldbl sPRIeldbl sPRIFUldbl d_PRIGUldbl sPRIEUldbl \
 d_SCNfldbl  d_double_style_vax d_double_style_ieee \
 d_double_style_ibm d_double_style_cray d_double_has_subnormals \
 d_double_has_inf d_double_has_nan d_double_has_negative_zero \
 sSCNfldbl doublekind: \
```

```
 d_longdbl longdblsize doublesize uselongdouble test echo cat rm_try \
 Setvar Compile run i_stdlib osname gccversion ccflags
?MAKE: -pick add $@ %<
?S:doublekind:
?S: This variable, if defined, encodes the type of a double:
?S:  1 = IEEE 754 32-bit little endian,
?S:  2 = IEEE 754 32-bit big endian,
?S:  3 = IEEE 754 64-bit little endian,
?S:  4 = IEEE
 754 64-bit big endian,
?S:  5 = IEEE 754 128-bit little endian,
?S:  6 = IEEE 754 128-bit big endian,
?S:  7 = IEEE 754 64-bit mixed endian le-be,
?S:  8 = IEEE 754 64-bit mixed endian be-le,
?S:  9 = VAX 32bit little endian F float format
?S: 10 = VAX 64bit little endian D float format
?S: 11 = VAX 64bit little endian G float format
?S: 12 = IBM 32bit format
?S: 13 = IBM 64bit format
?S: 14 = Cray 64bit format
?S: -1 = unknown format.
?S:.
?S:d_PRIfldbl:
?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates that stdio has a symbol to print long doubles.
?S:.
?S:d_PRIgldbl:
?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates that stdio has a symbol to print long doubles.
?S:.
?S:d_PRIeldbl:
?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates that stdio has a symbol to print long doubles.
?S:.
?S:d_PRIFUldbl:
?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates
 that stdio has a symbol to print long doubles.
?S: The 'U' in the name is to separate this from d_PRIfldbl so that even
?S: case-blind systems can see the difference.
?S:.
?S:d_PRIGUldbl:
?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates that stdio has a symbol to print long doubles.
?S: The 'U' in the name is to separate this from d_PRIgldbl so that even
?S: case-blind systems can see the difference.
?S:.
?S:d_PRIEUldbl:
```

```
?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates that stdio has a symbol to print long doubles.
?S: The 'U' in the name is to separate this from d_PRIeldbl so that even
?S: case-blind systems can see the difference.
?S:.
?S:d_SCNfldbl:
?S: This variable conditionally defines the PERL_PRIfldbl symbol, which
?S: indicates that stdio has a symbol to scan long doubles.
?S:.
?S:sPRIfldbl:
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'f') for
 output.
?S:.
?S:sPRIgldbl:
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'g') for output.
?S:.
?S:sPRIeldbl:
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'e') for output.
?S:.
?S:sPRIFUldbl:
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'F') for output.
?S: The 'U' in the name is to separate this from sPRIfldbl so that even
?S: case-blind systems can see the difference.
?S:.
?S:sPRIGUldbl:
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'G') for output.
?S: The 'U' in the name is to separate this from sPRIgldbl so that even
?S: case-blind systems can see the difference.
?S:.
?S:sPRIEUldbl:
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'E') for output.
?S: The 'U' in the name is to separate this from sPRIeldbl so that even
?S: case-blind
 systems can see the difference.
?S:.
?S:sSCNfldbl:
?S: This variable, if defined, contains the string used by stdio to
?S: format long doubles (format 'f') for input.
?S:.
?S:d_double_has_inf:
?S: This variable conditionally defines the symbol DOUBLE_HAS_INF
?S: which indicates that the double type has an infinity.
```

```
?S:.
?S:d_double_has_nan:
?S: This variable conditionally defines the symbol DOUBLE_HAS_NAN
?S: which indicates that the double type has a not-a-number.
?S:.
?S:d_double_has_negative_zero:
?S: This variable conditionally defines the symbol DOUBLE_HAS_NEGATIVE_ZERO
?S: which indicates that the double type has a negative zero.
?S:.
?S:d_double_has_subnormals:
?S: This variable conditionally defines the symbol DOUBLE_HAS_SUBNORMALS
?S: which indicates that the double type has subnormals (denormals).
?S:.
?S:d_double_style_cray:
?S: This variable conditionally defines the symbol DOUBLE_STYLE_CRAY
?S: which indicates that the double is the 64-bit CRAY mainframe
 format.
?S:.
?S:d_double_style_ibm:
?S: This variable conditionally defines the symbol DOUBLE_STYLE_IBM,
?S: which indicates that the double is the 64-bit IBM mainframe format.
?S:.
?S:d_double_style_ieee:
?S: This variable conditionally defines the symbol DOUBLE_STYLE_IEEE,
?S: which indicates that the double is the 64-bit IEEE 754.
?S:.
?S:d_double_style_vax:
?S: This variable conditionally defines the symbol DOUBLE_STYLE_VAX,
?S: which indicates that the double is the 64-bit VAX format D or G.
?S:.
?C:PERL_PRIfldbl:
?C: This symbol, if defined, contains the string used by stdio to
?C: format long doubles (format 'f') for output.
?C:.
?C:PERL_PRIgldbl:
?C: This symbol, if defined, contains the string used by stdio to
?C: format long doubles (format 'g') for output.
?C:.
?C:PERL_PRIeldbl:
?C: This symbol, if defined, contains the string used by stdio to
?C: format long doubles (format 'e') for output.
?C:.
?C:PERL_PRIFldbl:
?C: This symbol, if defined, contains the string used by stdio
 to
?C: format long doubles (format 'f') for output.
?C:.
?C:PERL_PRIGldbl:
```

```
?C: This symbol, if defined, contains the string used by stdio to
?C: format long doubles (format 'g') for output.
?C:.
?C:PERL_PRIEldbl:
?C: This symbol, if defined, contains the string used by stdio to
?C: format long doubles (format 'e') for output.
?C:.
?C:PERL_SCNfldbl:
?C: This symbol, if defined, contains the string used by stdio to
?C: format long doubles (format 'f') for input.
?C:.
?C:DOUBLEKIND:
?C: DOUBLEKIND will be one of
?C: DOUBLE_IS_IEEE_754_32_BIT_LITTLE_ENDIAN
?C: DOUBLE_IS_IEEE_754_32_BIT_BIG_ENDIAN
?C: DOUBLE_IS_IEEE_754_64_BIT_LITTLE_ENDIAN
?C: DOUBLE_IS_IEEE_754_64_BIT_BIG_ENDIAN
?C: DOUBLE_IS_IEEE_754_128_BIT_LITTLE_ENDIAN
?C: DOUBLE_IS_IEEE_754_128_BIT_BIG_ENDIAN
?C: DOUBLE_IS_IEEE_754_64_BIT_MIXED_ENDIAN_LE_BE
?C: DOUBLE_IS_IEEE_754_64_BIT_MIXED_ENDIAN_BE_LE
?C: DOUBLE_IS_VAX_F_FLOAT
?C: DOUBLE_IS_VAX_D_FLOAT
?C: DOUBLE_IS_VAX_G_FLOAT
?C: DOUBLE_IS_IBM_SINGLE_32_BIT
?C: DOUBLE_IS_IBM_DOUBLE_64_BIT
?C: DOUBLE_IS_CRAY_SINGLE_64_BIT
?C: DOUBLE_IS_UNKNOWN_FORMAT
?C:.
?C:DOUBLE_HAS_INF:
?C: This
 symbol, if defined, indicates that the double has
?C: the infinity.
?C:.
?C:DOUBLE_HAS_NAN:
?C: This symbol, if defined, indicates that the double has
?C: the not-a-number.
?C:.
?C:DOUBLE_HAS_NEGATIVE_ZERO:
?C: This symbol, if defined, indicates that the double has
?C: the negative_zero.
?C:.
?C:DOUBLE_HAS_SUBNORMALS:
?C: This symbol, if defined, indicates that the double has
?C: the subnormals (denormals).
?C:.
?C:DOUBLE_STYLE_CRAY:
?C: This symbol, if defined, indicates that the double is
```

```
?C: the 64-bit CRAY mainframe format.
?C:.
?C:DOUBLE_STYLE_IBM:
?C: This symbol, if defined, indicates that the double is
?C: the 64-bit IBM mainframe format.
?C:.
?C:DOUBLE_STYLE_IEEE:
?C: This symbol, if defined, indicates that the double is
?C: the 64-bit IEEE 754.
?C:.
?C:DOUBLE_STYLE_VAX:
?C: This symbol, if defined, indicates that the double is
?C: the 64-bit VAX format D or G.
?C:.
?LINT:known
 DOUBLE_IS_IEEE_754_32_BIT_LITTLE_ENDIAN
?LINT:known DOUBLE_IS_IEEE_754_32_BIT_BIG_ENDIAN
?LINT:known DOUBLE_IS_IEEE_754_64_BIT_LITTLE_ENDIAN
?LINT:known DOUBLE_IS_IEEE_754_64_BIT_BIG_ENDIAN
?LINT:known DOUBLE_IS_IEEE_754_128_BIT_LITTLE_ENDIAN
?LINT:known DOUBLE_IS_IEEE_754_128_BIT_BIG_ENDIAN
?LINT:known DOUBLE_IS_IEEE_754_64_BIT_MIXED_ENDIAN_LE_BE
?LINT:known DOUBLE_IS_IEEE_754_64_BIT_MIXED_ENDIAN_BE_LE
?LINT:known DOUBLE_IS_VAX_F_FLOAT
?LINT:known DOUBLE_IS_VAX_D_FLOAT
?LINT:known DOUBLE_IS_VAX_G_FLOAT
?LINT:known DOUBLE_IS_IBM_SINGLE_32_BIT
?LINT:known DOUBLE_IS_IBM_DOUBLE_64_BIT
?LINT:known DOUBLE_IS_CRAY_SINGLE_64_BIT
?LINT:known DOUBLE_IS_UNKNOWN_FORMAT
?H:#define DOUBLEKIND $doublekind  /**/
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_32_BIT_LITTLE_ENDIAN 1
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_32_BIT_BIG_ENDIAN 2
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_64_BIT_LITTLE_ENDIAN 3
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_64_BIT_BIG_ENDIAN 4
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_128_BIT_LITTLE_ENDIAN 5
?H:?DOUBLEKIND:#define
 DOUBLE_IS_IEEE_754_128_BIT_BIG_ENDIAN 6
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_64_BIT_MIXED_ENDIAN_LE_BE 7
?H:?DOUBLEKIND:#define DOUBLE_IS_IEEE_754_64_BIT_MIXED_ENDIAN_BE_LE 8
?H:?DOUBLEKIND:#define DOUBLE_IS_VAX_F_FLOAT 9
?H:?DOUBLEKIND:#define DOUBLE_IS_VAX_D_FLOAT 10
?H:?DOUBLEKIND:#define DOUBLE_IS_VAX_G_FLOAT 11
?H:?DOUBLEKIND:#define DOUBLE_IS_IBM_SINGLE_32_BIT 12
?H:?DOUBLEKIND:#define DOUBLE_IS_IBM_DOUBLE_64_BIT 13
?H:?DOUBLEKIND:#define DOUBLE_IS_CRAY_SINGLE_64_BIT 14
?H:?DOUBLEKIND:#define DOUBLE_IS_UNKNOWN_FORMAT  -1
?H:#$d_PRIfldbl PERL_PRIfldbl $sPRIfldbl /**/
```

```
?H:#$d_PRIgldbl PERL_PRIgldbl $sPRIgldbl /**/
?H:#$d_PRIeldbl PERL_PRIeldbl $sPRIeldbl /**/
?H:#$d_PRIFUldbl PERL_PRIFldbl $sPRIFUldbl /**/
?H:#$d_PRIGUldbl PERL_PRIGldbl $sPRIGUldbl /**/
?H:#$d_PRIEUldbl PERL_PRIEldbl $sPRIEUldbl /**/
?H:#$d_SCNfldbl PERL_SCNfldbl $sSCNfldbl /**/
?H:#$d_double_has_inf DOUBLE_HAS_INF
?H:#$d_double_has_nan DOUBLE_HAS_NAN
?H:#$d_double_has_negative_zero
 DOUBLE_HAS_NEGATIVE_ZERO
?H:#$d_double_has_subnormals DOUBLE_HAS_SUBNORMALS
?H:#$d_double_style_cray DOUBLE_STYLE_CRAY
?H:#$d_double_style_ibm DOUBLE_STYLE_IBM
?H:#$d_double_style_ieee DOUBLE_STYLE_IEEE
?H:#$d_double_style_vax DOUBLE_STYLE_VAX
?H:.
?T:yyy message saveccflags
?F:!try
?LINT:change ccflags
?LINT:change uselongdouble
: Check what kind of doubles your system has
$echo "Checking the kind of doubles you have..." >&4
$cat >try.c <<EOP
#$i_stdlib I_STDLIB
#define DOUBLESIZE $doublesize
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <stdio.h>
static const double d = -0.1;
int main() {
 unsigned const char* b = (unsigned const char*)(&d);
#if DOUBLESIZE == 4
 if (b[0] == 0xCD && b[3] == 0xBD) {
   /* IEEE 754 32-bit little-endian */
   printf("1\n");
   exit(0);
 }
 if (b[0] == 0xBD && b[3] == 0xCD) {
   /* IEEE 754 32-bit big-endian */
   printf("2\n");
   exit(0);
 }
 if (b[0] == 0xCC && b[3] == 0xCC) {
   /* VAX format F, 32-bit
 PDP-style mixed endian. */
   printf("9\n");
   exit(0);
```

```
 }
 if (b[0] == 0xC0 && b[3] == 0x9A) {
   /* IBM single 32-bit */
   printf("12\n");
   exit(0);
 }
#endif
#if DOUBLESIZE == 8
 if (b[0] == 0x9A && b[7] == 0xBF) {
   /* IEEE 754 64-bit little-endian */
   printf("3\n");
   exit(0);
 }
 if (b[0] == 0xBF && b[7] == 0x9A) {
   /* IEEE 754 64-bit big-endian */
   printf("4\n");
   exit(0);
 }
 if (b[0] == 0x99 && b[3] == 0xBF && b[4] == 0x9A && b[7] == 0x99) {
  /* ARM mixed endian: two little-endian 32-bit floats, in big endian order:
   * 4 5 6 7 0 1 2 3 (MSB = 7, LSB = 0)
   * 99 99 b9 bf 9a 99 99 99 */
   printf("7\n");
   exit(0);
 }
 if (b[0] == 0x99 && b[3] == 0x9A && b[4] == 0xBF && b[7] == 0x99) {
  /* The opposite of case 7, mixed endian: two big-endian 32-bit floats,
   * in little endian order: 3 2 1 0 7 6 5 4 (MSB = 7, LSB = 0)
   * 99 99 99 9a bf b9 99 99 */
   printf("8\n");
   exit(0);
 }
 if (b[0] == 0xCC && b[7] == 0xCC) {
  /* VAX
 format D, 64-bit PDP-style mixed endian. */
   printf("10\n");
   exit(0);
 }
 if (b[0] == 0xD9 && b[7] == 0x99) {
  /* VAX format G, 64-bit PDP-style mixed endian. */
   printf("11\n");
   exit(0);
 }
 if (b[0] == 0xC0 && b[7] == 0x9A) {
   /* IBM double 64-bit */
   printf("13\n");
   exit(0);
 }
```

```
 if (b[0] == 0xBF && b[7] == 0xCD) {
   /* CRAY single 64-bit */
   printf("14\n");
   exit(0);
 }
#endif
#if DOUBLESIZE == 16
 if (b[0] == 0x9A && b[15] == 0xBF) {
   /* IEEE 754 128-bit little-endian */
   printf("5\n");
   exit(0);
 }
 if (b[0] == 0xBF && b[15] == 0x9A) {
   /* IEEE 754 128-bit big-endian */
   printf("6\n");
   exit(0);
 }
#endif
 /* Then there are old mainframe/miniframe formats like IBM and CRAY.
  * Whether those environments can still build Perl is debatable. */
 printf("-1\n"); /* unknown */
 exit(0);
}
EOP
set try
if eval $compile; then
   doublekind=`$run ./try`
else
   doublekind=-1
fi
case "$doublekind" in
1) echo "You have IEEE
 754 32-bit little endian doubles." >&4 ;;
2) echo "You have IEEE 754 32-bit big endian doubles." >&4 ;;
3) echo "You have IEEE 754 64-bit little endian doubles." >&4 ;;
4) echo "You have IEEE 754 64-bit big endian doubles." >&4 ;;
5) echo "You have IEEE 754 128-bit little endian doubles." >&4 ;;
6) echo "You have IEEE 754 128-bit big endian doubles." >&4 ;;
7) echo "You have IEEE 754 64-bit mixed endian doubles (32-bit LEs in BE)." >&4 ;;
8) echo "You have IEEE 754 64-bit mixed endian doubles (32-bit BEs in LE)." >&4 ;;
9) echo "You have VAX format F 32-bit PDP-style mixed endian doubles." >&4 ;;
10) echo "You have VAX format D 64-bit PDP-style mixed endian doubles." >&4 ;;
11) echo "You have VAX format G 64-bit PDP-style mixed endian doubles." >&4 ;;
12) echo "You have IBM short 32-bit doubles." >&4 ;;
13) echo "You have IBM long 64-bit doubles." >&4 ;;
14) echo "You have Cray single 64-bit doubles." >&4 ;;
*) echo "Cannot figure out your double.  You Cyber, or something?" >&4 ;;
esac
```

```
d_double_style_ieee=$undef
d_double_style_vax=$undef
d_double_style_ibm=$undef
d_double_style_cray=$undef
case
 "$doublekind" in
1|2|3|4|5|6|7|8) d_double_style_ieee=$define ;;
9|10|11) d_double_style_vax=$define ;;
12|13) d_double_style_ibm=$define ;;
14) d_double_style_cray=$define ;;
esac
case "$d_double_style_ieee" in
$define)
   d_double_has_inf=$define
   d_double_has_nan=$define
   d_double_has_negative_zero=$define
   d_double_has_subnormals=$define
   ;;
*)
   d_double_has_inf=$undef
   d_double_has_nan=$undef
   d_double_has_negative_zero=$undef
   d_double_has_subnormals=$undef
   ;;
esac
$rm_try

: Check print/scan long double stuff
echo " "

if $test X"$d_longdbl" = X"$define"; then

echo "Checking how to print long doubles..." >&4

if $test X"$sPRIfldbl" = X -a X"$doublesize" = X"$longdblsize"; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
 double d = 123.456;
 printf("%.3f\n", d);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run
 ./try`
  case "$yyy" in
```

```
  123.456)
   sPRIfldbl='"f"'; sPRIgldbl='"g"'; sPRIeldbl='"e"';
   sPRIFUldbl='"F"'; sPRIGUldbl='"G"'; sPRIEUldbl='"E"';
   echo "We will use %f."
   ;;
  esac
 fi
fi

if $test X"$sPRIfldbl" = X; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
 long double d = 123.456;
 printf("%.3Lf\n", d);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  123.456)
   sPRIfldbl='"Lf"'; sPRIgldbl='"Lg"'; sPRIeldbl='"Le"';
   sPRIFUldbl='"LF"'; sPRIGUldbl='"LG"'; sPRIEUldbl='"LE"';
   echo "We will use %Lf."
   ;;
  esac
 fi
fi

if $test X"$sPRIfldbl" = X; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
 long double d = 123.456;
 printf("%.3llf\n", d);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  123.456)
   sPRIfldbl='"llf"'; sPRIgldbl='"llg"'; sPRIeldbl='"lle"';
   sPRIFUldbl='"llF"'; sPRIGUldbl='"llG"'; sPRIEUldbl='"llE"';
   echo "We
```

```
 will use %llf."
   ;;
  esac
 fi
fi

if $test X"$sPRIfldbl" = X; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
 long double d = 123.456;
 printf("%.3lf\n", d);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  123.456)
   sPRIfldbl='"lf"'; sPRIgldbl='"lg"'; sPRIeldbl='"le"';
   sPRIFUldbl='"lF"'; sPRIGUldbl='"lG"'; sPRIEUldbl='"lE"';
   echo "We will use %lf."
   ;;
  esac
 fi
fi

if $test X"$sPRIfldbl" = X; then
 echo "Cannot figure out how to print long doubles." >&4
else
 sSCNfldbl=$sPRIfldbl # expect consistency
fi

$rm_try

fi # d_longdbl

case "$sPRIfldbl" in
") d_PRIfldbl="$undef"; d_PRIgldbl="$undef"; d_PRIeldbl="$undef";
 d_PRIFUldbl="$undef"; d_PRIGUldbl="$undef"; d_PRIEUldbl="$undef";
 d_SCNfldbl="$undef";
 ;;
*) d_PRIfldbl="$define"; d_PRIgldbl="$define"; d_PRIeldbl="$define";
 d_PRIFUldbl="$define"; d_PRIGUldbl="$define"; d_PRIEUldbl="$define";
 d_SCNfldbl="$define";
 ;;
esac
```

```
: Before committing on uselongdouble,
 see whether that looks sane.
if $test "$uselongdouble" = "$define"; then
   message=""
   echo " "
   echo "Checking if your long double math functions work right..." >&4
   $cat > try.c <<EOF
#include <math.h>
#include <stdio.h>
int main() {
 printf("%"$sPRIgldbl"\n", sqrtl(logl(expl(cosl(sinl(0.0L))))+powl(2.0L, 3.0L)));
}
EOF
   case "$osname:$gccversion" in
   aix:) saveccflags="$ccflags"
  ccflags="$ccflags -qlongdouble" ;; # to avoid core dump
   esac
   set try
   if eval $compile_ok; then
     yyy=`$run ./try`
   fi
   case "$yyy" in
   3) echo "Your long double math functions are working correctly." >&4 ;;
   *) echo "Your long double math functions are broken, not using long doubles." >&4
      uselongdouble=$undef
      ;;
   esac
   $rm_try
   case "$osname:$gccversion" in
   aix:) ccflags="$saveccflags" ;; # restore
   esac
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/longdblfio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtoq: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_strtoq:
?S: This variable conditionally defines the HAS_STRTOQ symbol, which
?S: indicates to the C program that the strtoq() routine is available.
?S:.
?C:HAS_STRTOQ:
?C: This symbol, if defined, indicates that the strtoq routine is
?C: available to convert strings to long longs (quads).
?C:.
?H:#$d_strtoq HAS_STRTOQ  /**/
?H:.
?LINT:set d_strtoq
: see if strtoq exists
set strtoq d_strtoq
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strtoq.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: pkgsrc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:pkgsrc: src rsrc
?MAKE: -pick add $@ %<
?S:pkgsrc:
?S: This variable holds the absolute path of the package source.
?S:.
?C:PACKAGE_SOURCE_DIR:
?C: Holds the directory name holding the package source.
?C:.
?H:#define PACKAGE_SOURCE_DIR "$pkgsrc"
?H:.
: define absolute package source directory
case "$src" in
/*) pkgsrc=$src;;
*) pkgsrc=`cd $rsrc; pwd`;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/dist/U/pkgsrc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setprotoent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_setprotoent_r setprotoent_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_setprotoent_r:
?S: This variable conditionally defines the HAS_SETPROTOENT_R symbol,
?S: which indicates to the C program that the setprotoent_r()
?S: routine is available.
?S:.
?S:setprotoent_r_proto:
?S: This variable encodes the prototype of setprotoent_r.
?S: It is zero if d_setprotoent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setprotoent_r
?S: is defined.
?S:.
?C:HAS_SETPROTOENT_R:
?C: This symbol, if defined, indicates that the setprotoent_r
 routine
?C: is available to setprotoent re-entrantly.
?C:.
?C:SETPROTOENT_R_PROTO:
?C: This symbol encodes the prototype of setprotoent_r.
?C: It is zero if d_setprotoent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setprotoent_r
?C: is defined.
?C:.
?H:#$d_setprotoent_r HAS_SETPROTOENT_R /**/
?H:#define SETPROTOENT_R_PROTO $setprotoent_r_proto /**/
?H:.
?T:try hdrs d_setprotoent_r_proto
: see if setprotoent_r exists
set setprotoent_r d_setprotoent_r
eval $inlibc
case "$d_setprotoent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_setprotoent_r_proto:$usethreads" in
 ":define") d_setprotoent_r_proto=define
```

```
 set d_setprotoent_r_proto setprotoent_r $hdrs
 eval $hasproto ;;
*) ;;
esac
case "$d_setprotoent_r_proto" in
define)
case "$setprotoent_r_proto" in
"|0) try='int setprotoent_r(int, struct protoent_data*);'
./protochk "$extern_C $try" $hdrs && setprotoent_r_proto=I_ID ;;
esac
case "$setprotoent_r_proto"
in
"|0) try='void setprotoent_r(int, struct protoent_data*);'
./protochk "$extern_C $try" $hdrs && setprotoent_r_proto=V_ID ;;
esac
case "$setprotoent_r_proto" in
"|0) d_setprotoent_r=undef
 setprotoent_r_proto=0
 echo "Disabling setprotoent_r, cannot determine prototype." >&4 ;;
* ) case "$setprotoent_r_proto" in
 REENTRANT_PROTO*) ;;
 *) setprotoent_r_proto="REENTRANT_PROTO_$setprotoent_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "setprotoent_r has no prototype, not using it." >&4 ;;
 esac
 d_setprotoent_r=undef
 setprotoent_r_proto=0
 ;;
esac
;;
*) setprotoent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_setprotoent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
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?RCS: You may redistribute only under the terms of the Artistic License,
```

```
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_dbminitproto: Hasproto i_dbm
?MAKE: -pick add $@ %<
?S:d_dbminitproto:
?S: This variable conditionally defines the HAS_DBMINIT_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the dbminit() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_DBMINIT_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the dbminit() function.  Otherwise, it is up
?C: to the program to supply one.  A good guess is
?C:  extern
 int dbminit(char *);
?C:.
?H:#$d_dbminitproto HAS_DBMINIT_PROTO /**/
?H:.
?LINT:set d_dbminitproto
: see if prototype for dbminit is available
echo " "
set d_dbminitproto dbminit $i_dbm dbm.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_dbminitproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fchmod.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_fchmod.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:59  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_fchmod: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_fchmod:
?S: This variable conditionally defines the HAS_FCHMOD symbol, which
?S: indicates to the C program that the fchmod() routine is available
?S: to change mode of opened files.
?S:.
?C:HAS_FCHMOD (FCHMOD):
?C: This symbol, if defined, indicates that the fchmod routine is available
?C: to
 change mode of opened files.  If unavailable, use chmod().
?C:.
?H:#$d_fchmod HAS_FCHMOD  /**/
?H:.
?LINT:set d_fchmod
: see if fchmod exists
set fchmod d_fchmod
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_fchmod.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_attribut.U,v $
?RCS: Revision 3.0.1.3  1995/01/30  14:33:45  ram
?RCS: patch49: test C program now includes <stdio.h> (WED)
?RCS:
?RCS: Revision 3.0.1.2  1995/01/11  15:25:47  ram
?RCS: patch45: fixed typo in the d_attribut variable (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:08:55  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_attribut: Myread Oldconfig cat cc ccflags rm Setvar contains
?MAKE: -pick add $@ %<
?S:d_attribut
```

```
 (d_attrib):
?S: This variable conditionally defines HASATTRIBUTE, which
?S: indicates the C compiler can check for function attributes,
?S: such as printf formats.
?S:.
?C:HASATTRIBUTE ~ %< (GNUC_ATTRIBUTE_CHECK):
?C: This symbol indicates the C compiler can check for function attributes,
?C: such as printf formats. This is normally only supported by GNU cc.
?C:.
?H:?%<:#$d_attribut HASATTRIBUTE  /**/
?H:?%<:#ifndef HASATTRIBUTE
?H:?%<:#define __attribute__(_arg_)
?H:?%<:#endif
?H:.
?W:%<:__attribute__
?LINT:set d_attribut
?LINT:known __attribute__
: Look for GNU-cc style attribute checking
echo " "
echo "Checking whether your compiler can handle __attribute__ ..." >&4
$cat >attrib.c <<'EOCP'
#include <stdio.h>
void croak (char* pat,...) __attribute__((format(printf,1,2),noreturn));
EOCP
if $cc $ccflags -c attrib.c >attrib.out 2>&1 ; then
 if $contains 'warning' attrib.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't fully support __attribute__."
  val="$undef"
 else
  echo
 "Your C compiler supports __attribute__."
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand __attribute__ at all."
 val="$undef"
fi
set d_attribut
eval $setvar
$rm -f attrib*
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_attribut.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: newsspool.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: newsspool.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:newsspool newsspoolexp: Getfile Oldconfig
?MAKE: -pick add $@ %<
?S:newsspool:
?S: This variable contains the eventual value of the NEWSSPOOL symbol,
?S: which is the directory name where news articles are spooled.  It
?S: may have a ~ on the front of it.
?S:.
?S:newsspoolexp:
?S: This is the same as the newsspool variable, but is
 filename expanded
?S: at configuration time, for programs not wanting to deal with it at
?S: run-time.
?S:.
?C:NEWSSPOOL:
?C: This symbol contains the directory name where news articles are
?C: spooled.  The program must be prepared to do ~ expansion on it.
?C:.
?C:NEWSSPOOL_EXP:
?C: This is the same as NEWSSPOOL, but is filename expanded at
?C: configuration time, for use in programs not willing to do so
?C: at run-time.
?C:.
?H:#define NEWSSPOOL "$newsspool" /**/
?H:#define NEWSSPOOL_EXP "$newsspoolexp" /**/
?H:.
: locate news spool directory
case "$newsspool" in
")
 dflt=/usr/spool/news
 ;;
*) dflt="$newsspool";;
esac
echo " "
fn=d~
rp='Where are news spooled?'
. ./getfile
```

```
newsspool="$ans"
newsspoolexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/newsspool.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: privlib.U,v 3.1 1999/07/08 18:32:29 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: privlib.U,v $
?RCS: Revision 3.1  1999/07/08 18:32:29  doughera
?RCS: Updated for perl5.005_5x
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:17:09  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:44:23  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:31:52  ram
?RCS:
 patch32: now uses installation prefix
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:12:34  ram
?RCS: patch10: added support for /local/lib (WED)
?RCS: patch10: prompt phrasing made more explicit (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:privlib privlibexp installprivlib: package cat Getfile Oldconfig \
 Setprefixvar Prefixit version installstyle binexp
?MAKE: -pick add $@ %<
?Y:TOP
?D:privlib=''
?S:privlib:
?S: This variable contains the eventual value of the PRIVLIB symbol,
?S: which is the name of the private library for this package.  It may
```

```
?S: have a ~ on the front. It is up to the makefile to eventually create
?S: this directory while performing installation (with ~ substitution).
?S:.
?D:privlibexp="
?S:privlibexp:
?S: This variable is the ~name expanded version of privlib, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installprivlib="
?S:installprivlib:
?S: This variable
 is really the same as privlibexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?C:PRIVLIB:
?C: This symbol contains the name of the private library for this package.
?C: The library is private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.  The program
?C: should be prepared to do ~ expansion.
?C:.
?C:PRIVLIB_EXP:
?C: This symbol contains the ~name expanded version of PRIVLIB, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#define PRIVLIB "$privlib"  /**/
?H:#define PRIVLIB_EXP "$privlibexp"  /**/
?H:.
?LINT:change prefixvar
?LINT:set installprivlib
?LINT:set privlib
?LINT:set privlibexp
: determine where private library files go
: Usual default is /usr/local/lib/perl5/$version.
: Also allow things like /opt/perl/lib/$version, since
: /opt/perl/lib/perl5... would be redundant.
: The default "style"
 setting is made in installstyle.U
case "$installstyle" in
*lib/perl5*) set dflt privlib lib/$package/$version ;;
*)  set dflt privlib lib/$version ;;
esac
eval $prefixit
$cat <<EOM

There are some auxiliary files for $package that need to be put into a
private library directory that is accessible by everyone.
```

```
EOM
?X: Force dependency on bin.U
fn=$binexp
fn=d~+
rp='Pathname where the private library files will reside?'
. ./getfile
prefixvar=privlib
. ./setprefixvar

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-
5.34.0/U/installdirs/privlib.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: i_unistd.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_unistd.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_unistd: Inhdr
?MAKE: -pick add $@ %<
?S:i_unistd:
?S: This variable conditionally defines the I_UNISTD symbol, and indicates
?S: whether a C program should include <unistd.h>.
?S:.
?C:I_UNISTD:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <unistd.h>.
?C:.
?H:#$i_unistd I_UNISTD  /**/
?H:.
?LINT:set
 i_unistd
: see if this is a unistd.h system
set unistd.h i_unistd
eval $inhdr

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-
```

5.34.0/dist/U/i_unistd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ftime.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_ftime.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:06  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_ftime d_gettimeod: Inlibc Setvar
?MAKE: -pick add $@ %<
?S:d_ftime:
?S: This variable conditionally defines the HAS_FTIME symbol, which indicates
?S: that the ftime() routine exists.  The ftime() routine is basically
?S: a sub-second accuracy clock.
?S:.
?S:d_gettimeod:
?S: This variable conditionally defines the HAS_GETTIMEOFDAY symbol,
 which
?S: indicates that the gettimeofday() system call exists (to obtain a
?S: sub-second accuracy clock). You should probably include <sys/resource.h>.
?S:.
?C:HAS_FTIME (FTIMER):
?C: This symbol, if defined, indicates that the ftime() routine exists.
?C: It is basically a sub-second accuracy clock, but is less accurate
?C: than gettimeofday(2) anyway. The type "Timeval" should be used to
?C: refer to "struct timeb".
?C:.
?C:HAS_GETTIMEOFDAY (GETTIMEOFDAY):
?C: This symbol, if defined, indicates that the gettimeofday() system
?C: call is available for a sub-second accuracy clock. Usually, the file
?C: <sys/resource.h> needs to be included (see I_SYS_RESOURCE).
?C: The type "Timeval" should be used to refer to "struct timeval".
?C:.
?H:#$d_ftime HAS_FTIME  /**/
?H:#$d_gettimeod HAS_GETTIMEOFDAY /**/
?H:?%<:@if HAS_FTIME
?H:?%<:#ifdef HAS_FTIME
?H:?%<:#define Timeval struct timeb  /* Structure used by ftime() */
?H:?%<:#endif
```

```
?H:?%<:@end
?H:?%<:@if HAS_GETTIMEOFDAY
?H:?%<:#ifdef HAS_GETTIMEOFDAY
?H:?%<:#define
 Timeval struct timeval /* Structure used by gettimeofday() */
?H:?%<:#endif
?H:?%<:@end
?H:.
?X:FIXME
?X:?I:?d_ftime:i_systimeb
?X:?I:?d_gettimeod:i_sysresrc
?LINT:set d_gettimeod d_ftime
?LINT:known Timeval
: see if gettimeofday or ftime exists
?X:
?X: Give priority to gettimeofday(2) because timing is more accurate
?X:
set gettimeofday d_gettimeod
eval $inlibc
case "$d_gettimeod" in
"$undef")
 set ftime d_ftime
 eval $inlibc
 ;;
*)
 val="$undef"; set d_ftime; eval $setvar
 ;;
esac
case "$d_gettimeod$d_ftime" in
"$undef$undef")
 echo " "
 echo 'No ftime() nor gettimeofday() -- timing may be less accurate.' >&4
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_ftime.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_select.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_select.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_select: Inlibc
?MAKE: -pick add $@ %<
?S:d_select:
?S: This variable conditionally defines HAS_SELECT if select() is
?S: available to select active file descriptors. A <sys/time.h>
?S: inclusion may be necessary for the timeout field.
?S:.
?C:HAS_SELECT:
?C: This symbol, if defined, indicates that the select routine is
?C: available
 to select active file descriptors. If the timeout field
?C: is used, <sys/time.h> may need to be included.
?C:.
?H:#$d_select HAS_SELECT /**/
?H:.
?LINT:set d_select
: see if select exists
set select d_select
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_select.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_byacc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_byacc.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:31:14  ram
?RCS: patch61: created
?RCS:
?MAKE:d_byacc: byacc Setvar
?MAKE: -pick add $@ %<
```

```
?S:d_byacc:
?S: This variable indicates whether byacc is available.
?S: If the user has specified 'portability', then Makefile.SH
?S: sees $byacc='byacc' whether or not the user actually has
?S: byacc.  This variable allows us to determine in a makefile
?S: if we really
 have byacc.
?S:.
?LINT:set d_byacc
: Check if we really have byacc
case "$byacc" in
"|'byacc') val="$undef" ;;
*) val="$define" ;;
esac
set d_byacc
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_byacc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: contains.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: contains.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:contains: Nothing
?MAKE: -pick add $@ %<
?S:contains:
?S: This variable holds the command to do a grep with a proper return
?S: status.  On most sane systems it is simply "grep".  On insane systems
?S: it is a grep followed by a cat followed by a test.  This variable
?S: is primarily for the use of other Configure units.
?S:.
: Some
 greps do not return status, grrr.
echo "grimblepritz" >grimble
if grep blurfldyick grimble >/dev/null 2>&1 ; then
```

```
 contains=contains
elif grep grimblepritz grimble >/dev/null 2>&1 ; then
 contains=grep
else
 contains=contains
fi
rm -f grimble
: the following should work in any shell
case "$contains" in
contains*)
 echo " " >&4
 echo "AGH!  Grep doesn't return a status.  Attempting remedial action." >&4
 cat >contains <<'EOSS'
grep "$1" "$2" >.greptmp && cat .greptmp && test -s .greptmp
EOSS
contains=./contains
chmod +x $contains
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/contains.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sigaction.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:44:29  ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_sigaction: Csym Setvar cat cc ccflags ldflags libs rm _o
?MAKE: -pick add $@ %<
?S:d_sigaction:
?S: This variable conditionally defines the HAS_SIGACTION symbol, which
?S: indicates that the Vr4 sigaction() routine is available.
?S:.
?C:HAS_SIGACTION:
?C: This symbol, if defined, indicates that Vr4's sigaction() routine
?C: is available.
```

```
?C:.
?H:#$d_sigaction HAS_SIGACTION /**/
?H:.
?T:val
?LINT:set
 d_sigaction
: see if we have sigaction
echo " "
if set sigaction val -f d_sigaction; eval $csym; $val; then
 echo 'sigaction() found.' >&4
 val="$define"
else
 echo 'sigaction NOT found.' >&4
 val="$undef"
fi
?X:
?X: Solaris 2.5_x86 with SunWorks Pro C 3.0.1 doesn't have a complete
?X: sigaction structure if compiled with cc -Xc.  This compile test
?X: will fail then.  <doughera@lafcol.lafayette.edu>
?X:
$cat > set.c <<'EOP'
#include <stdio.h>
#include <sys/types.h>
#include <signal.h>
int main()
{
   struct sigaction act, oact;
}
EOP
if $cc $ccflags $ldflags -o set set.c $libs >/dev/null 2>&1; then
 :
else
 echo "But you don't seem to have a useable struct sigaction." >&4
 val="$undef"
fi
set d_sigaction; eval $setvar
$rm -f set set$_o set.c
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sigaction.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_ldbl_dig: Myread contains cat rm Setvar \
 cppstdin cppflags cppminus
?MAKE: -pick add $@ %<
?S:d_ldbl_dig:
?S: This variable conditionally defines d_ldbl_dig if this system's
?S: header files provide LDBL_DIG, which is the number of significant
?S: digits in a long double precision number.
?S:.
?C:HAS_LDBL_DIG:
?C: This symbol, if defined, indicates that this system's <float.h>
?C: or <limits.h> defines the symbol LDBL_DIG, which is the number
?C: of significant digits in a long double precision number. Unlike
?C: for
 DBL_DIG, there's no good guess for LDBL_DIG if it is undefined.
?C:.
?H:#$d_ldbl_dig HAS_LDBL_DIG /* */
?H:.
?F:!ldbl_dig.c
?LINT:set d_ldbl_dig
: See if number of significant digits in a double precision number is known
echo " "
$cat >ldbl_dig.c <<EOM
#include <limits.h>
#include <float.h>
#ifdef LDBL_DIG
printf("Contains LDBL_DIG");
#endif
EOM
$cppstdin $cppflags $cppminus < ldbl_dig.c >ldbl_dig.E 2>/dev/null
if $contains 'LDBL_DIG' ldbl_dig.E >/dev/null 2>&1; then
 echo "LDBL_DIG found." >&4
 val="$define"
else
 echo "LDBL_DIG NOT found." >&4
 val="$undef"
fi
$rm -f ldbl_dig.?
set d_ldbl_dig
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_ldbl_dig.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: mallocsrc.U,v 3.0.1.2 1997/02/28 16:10:26 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: mallocsrc.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:10:26  ram
?RCS: patch61: added support for Free_t, the type of free()
?RCS: patch61: replaced .o with $_o all over the place
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:10:46  ram
?RCS: patch23: added support for MYMALLOC, mainly  for perl5 (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:12  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:mallocsrc mallocobj usemallocwrap usemymalloc
 malloctype d_mymalloc \
 freetype: Myread \
 Oldconfig package Guess Setvar rm cat +cc +ccflags Findhdr \
 i_malloc i_stdlib sed libs _o ptrsize useithreads
?MAKE: -pick add $@ %<
?X: Put near top so that other tests don't erroneously include
?X: -lmalloc.  --AD  22 June 1998
?Y:TOP
?S:usemymalloc:
?S: This variable contains y if the malloc that comes with this package
?S: is desired over the system's version of malloc.  People often include
?S: special versions of malloc for efficiency, but such versions are often
?S: less portable.  See also mallocsrc and mallocobj.
?S: If this is 'y', then -lmalloc is removed from $libs.
?S:.
?S:usemallocwrap:
?S: This variable contains y if we are wrapping malloc to prevent
?S: integer overflow during size calculations.
?S:.
?S:mallocsrc:
?S: This variable contains the name of the malloc.c that comes with
?S: the package, if that malloc.c is preferred over the system malloc.
?S: Otherwise the value is null.  This variable is intended for generating
?S: Makefiles.
```

```
?S:.
?S:d_mymalloc:
?S: This
 variable conditionally defines MYMALLOC in case other parts
?S: of the source want to take special action if MYMALLOC is used.
?S: This may include different sorts of profiling or error detection.
?S:.
?S:mallocobj:
?S: This variable contains the name of the malloc.o that this package
?S: generates, if that malloc.o is preferred over the system malloc.
?S: Otherwise the value is null.  This variable is intended for generating
?S: Makefiles.  See mallocsrc.
?S:.
?S:freetype:
?S: This variable contains the return type of free().  It is usually
?S: void, but occasionally int.
?S:.
?S:malloctype:
?S: This variable contains the kind of ptr returned by malloc and realloc.
?S:.
?C:Free_t:
?C: This variable contains the return type of free().  It is usually
?C: void, but occasionally int.
?C:.
?C:Malloc_t (MALLOCPTRTYPE):
?C: This symbol is the type of pointer returned by malloc and realloc.
?C:.
?H:#define Malloc_t $malloctype   /**/
?H:#define Free_t
 $freetype   /**/
?H:.
?C:PERL_MALLOC_WRAP:
?C: This symbol, if defined, indicates that we'd like malloc wrap checks.
?C:.
?H:#$usemallocwrap PERL_MALLOC_WRAP  /**/
?H:.
?C:MYMALLOC:
?C: This symbol, if defined, indicates that we're using our own malloc.
?C:.
?H:#$d_mymalloc MYMALLOC   /**/
?H:.
?LINT:extern usedevel
?LINT:change libs
?X: Cannot test for mallocsrc; it is the unit's name and there is a bug in
?X: the interpreter which defines all the names, even though they are not used.
@if mallocobj
: determine whether to use malloc wrapping
echo " "
```

```
case "$usemallocwrap" in
[yY]*|true|$define) dflt='y' ;;
[nN]*|false|$undef) dflt='n' ;;
*) case "$usedevel" in
 [yY]*|true|$define) dflt='y' ;;
 *) dflt='n' ;;
 esac
 ;;
esac
rp="Do you wish to wrap malloc calls to protect against potential overflows?"
. ./myread
usemallocwrap="$ans"
case "$ans" in
y*|true)
 usemallocwrap="$define" ;;
*)
 usemallocwrap="$undef" ;;
esac

: determine which malloc to compile in
echo " "
case "$usemymalloc"
 in
[yY]*|true|$define) dflt='y' ;;
[nN]*|false|$undef) dflt='n' ;;
*) case "$ptrsize" in
 4) dflt='y' ;;
 *) dflt='n' ;;
 esac
 if test "$useithreads" = "$define"; then dflt='n'; fi
 ;;
esac
rp="Do you wish to attempt to use the malloc that comes with $package?"
. ./myread
usemymalloc="$ans"
case "$ans" in
y*|true)
 usemymalloc='y'
 mallocsrc='malloc.c'
 mallocobj="malloc$_o"
 d_mymalloc="$define"
?X: Maybe libs.U should be dependent on mallocsrc.U, but then
?X: most packages that use dist probably don't supply their own
?X: malloc, so this is probably an o.k. compromise
 case "$libs" in
 *-lmalloc*)
  : Remove malloc from list of libraries to use
  echo "Removing unneeded -lmalloc from library list" >&4
```

```
  set `echo X $libs | $sed -e 's/-lmalloc / /' -e 's/-lmalloc$//'`
  shift
  libs="$*"
  echo "libs = $libs" >&4
  ;;
 esac
 ;;
*)
 usemymalloc='n'
 mallocsrc=''
 mallocobj=''
 d_mymalloc="$undef"
 ;;
esac

@end
@if MALLOCPTRTYPE || Malloc_t || Free_t
: compute the return types of
 malloc and free
echo " "
$cat >malloc.c <<END
#$i_malloc I_MALLOC
#$i_stdlib I_STDLIB
#include <stdio.h>
#include <sys/types.h>
#ifdef I_MALLOC
#include <malloc.h>
#endif
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#ifdef TRY_MALLOC
void *malloc();
#endif
#ifdef TRY_FREE
void free();
#endif
END
@if MALLOCPTRTYPE || Malloc_t
case "$malloctype" in
'')
 if $cc $ccflags -c -DTRY_MALLOC malloc.c >/dev/null 2>&1; then
  malloctype='void *'
 else
  malloctype='char *'
 fi
 ;;
esac
```

```
echo "Your system wants malloc to return '$malloctype', it would seem." >&4
@end

@if Free_t
case "$freetype" in
")
 if $cc $ccflags -c -DTRY_FREE malloc.c >/dev/null 2>&1; then
  freetype='void'
 else
  freetype='int'
 fi
 ;;
esac
echo "Your system uses $freetype free(), it would seem." >&4
@end
$rm -f malloc.[co]
@end
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/mallocsrc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endhostent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_endhostent_r endhostent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_endhostent_r:
?S: This variable conditionally defines the HAS_ENDHOSTENT_R symbol,
?S: which indicates to the C program that the endhostent_r()
?S: routine is available.
?S:.
?S:endhostent_r_proto:
?S: This variable encodes the prototype of endhostent_r.
?S: It is zero if d_endhostent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endhostent_r
?S: is defined.
?S:.
?C:HAS_ENDHOSTENT_R:
?C: This symbol, if defined, indicates that the endhostent_r routine
?C: is
```

```
 available to endhostent re-entrantly.
?C:.
?C:ENDHOSTENT_R_PROTO:
?C: This symbol encodes the prototype of endhostent_r.
?C: It is zero if d_endhostent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endhostent_r
?C: is defined.
?C:.
?H:#$d_endhostent_r HAS_ENDHOSTENT_R /**/
?H:#define ENDHOSTENT_R_PROTO $endhostent_r_proto /**/
?H:.
?T:try hdrs d_endhostent_r_proto
: see if endhostent_r exists
set endhostent_r d_endhostent_r
eval $inlibc
case "$d_endhostent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_endhostent_r_proto:$usethreads" in
 ":define") d_endhostent_r_proto=define
  set d_endhostent_r_proto endhostent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_endhostent_r_proto" in
 define)
 case "$endhostent_r_proto" in
 "|0) try='int endhostent_r(struct hostent_data*);'
 ./protochk "$extern_C $try" $hdrs && endhostent_r_proto=I_D ;;
 esac
 case "$endhostent_r_proto" in
 "|0) try='void endhostent_r(struct
 hostent_data*);'
 ./protochk "$extern_C $try" $hdrs && endhostent_r_proto=V_D ;;
 esac
 case "$endhostent_r_proto" in
 "|0) d_endhostent_r=undef
  endhostent_r_proto=0
  echo "Disabling endhostent_r, cannot determine prototype." >&4 ;;
 * ) case "$endhostent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) endhostent_r_proto="REENTRANT_PROTO_$endhostent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "endhostent_r has no prototype, not using it." >&4 ;;
```

```
  esac
  d_endhostent_r=undef
  endhostent_r_proto=0
  ;;
 esac
 ;;
*) endhostent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_endhostent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: voidflags.U,v 3.0.1.2 1997/02/28 16:27:58 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: voidflags.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:27:58  ram
?RCS: patch61: don't prompt them if the void support is high enough for us
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:37:44  ram
?RCS: patch45: cosmetic change to avoid spurious blank lines when using -s
?RCS:
?RCS: Revision 3.0  1993/08/18  12:10:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:voidflags defvoidused: cat rm_try compiler_warning +cc +ccflags package \
 Oldconfig
 Myread i_stdlib
?MAKE: -pick add $@ %<
?S:voidflags:
?S: This variable contains the eventual value of the VOIDFLAGS symbol,
?S: which indicates how much support of the void type is given by this
?S: compiler.  See VOIDFLAGS for more info.
?S:.
?S:defvoidused:
?S: This variable contains the default value of the VOIDUSED symbol (15).
?S:.
?X: Exceptionally, we have to explicitly alias the symbol name for
```

```
?X: config_h.SH, otherwise the comment would not appear.
?C:VOIDFLAGS ~ %<:
?C: This symbol indicates how much support of the void type is given by this
?C: compiler.  What various bits mean:
?C:
?C:     1 = supports declaration of void
?C:     2 = supports arrays of pointers to functions returning void
?C:     4 = supports comparisons between pointers to void functions and
?C:      addresses of void functions
?C:     8 = supports declaration of generic void pointers
?C:
?C: The package designer should define VOIDUSED to indicate the requirements
?C: of the package.  This can be
 done either by #defining VOIDUSED before
?C: including config.h, or by defining defvoidused in Myinit.U.  If the
?C: latter approach is taken, only those flags will be tested.  If the
?C: level of void support necessary is not present, defines void to int.
?C:.
?H:?%<:#ifndef VOIDUSED
?H:?%<:#define VOIDUSED $defvoidused
?H:?%<:#endif
?H:?%<:#define VOIDFLAGS $voidflags
?H:?%<:#if (VOIDFLAGS & VOIDUSED) != VOIDUSED
?H:?%<:#define void int  /* is void to be avoided? */
?H:?%<:#define M_VOID   /* Xenix strikes again */
?H:?%<:#endif
?H:.
?INIT:: full support for void wanted by default
?INIT:defvoidused=15
?INIT:
?LINT:known void M_VOID VOIDUSED
: check for void type
echo " "
echo "Checking to see how well your C compiler groks the void type..." >&4
case "$voidflags" in
")
 $cat >try.c <<EOCP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#if TRY & 1
void sub() {
#else
sub() {
#endif
 extern void moo(); /* function returning void */
 void (*goo)();  /* ptr to func returning
```

```
 void */
#if TRY & 8
 void *hue;  /* generic ptr */
#endif
#if TRY & 2
 void (*foo[10])();
#endif

#if TRY & 4
 if(goo == moo) {
  exit(0);
 }
#endif
 exit(0);
}
int main() { sub(); }
EOCP
?X: This unit used to use cc -S in those tests to try to speed up things, but
?X: unfortunately, AIX 3.2 does not support this option.
 if $cc $ccflags -c -DTRY=$defvoidused try.c >.out 2>&1 ; then
  voidflags=$defvoidused
 echo "Good.  It appears to support void to the level $package wants.">&4
  if $compiler_warning .out >/dev/null 2>&1; then
   echo "However, you might get some warnings that look like this:"
   $cat .out
  fi
 else
echo "Hmm, your compiler has some difficulty with void. Checking further..." >&4
  if $cc $ccflags -c -DTRY=1 try.c >/dev/null 2>&1; then
   echo "It supports 1..."
   if $cc $ccflags -c -DTRY=3 try.c >/dev/null 2>&1; then
    echo "It also supports 2..."
    if $cc $ccflags -c -DTRY=7 try.c >/dev/null 2>&1; then
     voidflags=7
     echo "And it supports 4 but not 8
 definitely."
    else
     echo "It doesn't support 4..."
     if $cc $ccflags -c -DTRY=11 try.c >/dev/null 2>&1; then
      voidflags=11
      echo "But it supports 8."
     else
      voidflags=3
      echo "Neither does it support 8."
     fi
    fi
   else
    echo "It does not support 2..."
```

```
    if $cc $ccflags -c -DTRY=13 try.c >/dev/null 2>&1; then
     voidflags=13
     echo "But it supports 4 and 8."
    else
     if $cc $ccflags -c -DTRY=5 try.c >/dev/null 2>&1; then
      voidflags=5
      echo "And it supports 4 but has not heard about 8."
     else
      echo "However it supports 8 but not 4."
     fi
    fi
   fi
  else
   echo "There is no support at all for void."
   voidflags=0
  fi
 fi
esac
?X: Only prompt user if support does not match the level we want
case "$voidflags" in
"$defvoidused") ;;
*) $cat >&4 <<'EOM'
 Support flag bits are:
   1: basic void declarations.
   2: arrays of pointers to functions returning void.
   4: operations between pointers to and addresses
 of void functions.
   8: generic void pointers.
EOM
 dflt="$voidflags";
 rp="Your void support flags add up to what?"
 . ./myread
 voidflags="$ans"
 ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/voidflags.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: charsize.U,v 3.0.1.1 1994/10/29 16:07:13 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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```

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: charsize.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:07:13  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:34  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:charsize charbits: cat rm_try Myread Compile run
?MAKE: -pick add $@ %<
?S:charsize:
?S: This variable contains the value of the CHARSIZE symbol, which
?S: indicates to the C program how many bytes there are in a character.
?S:.
?S:charbits:
?S: This
 variable contains the value of the CHARBITS symbol, which
?S: indicates to the C program how many bits there are in a character.
?S:.
?C:CHARSIZE:
?C: This symbol contains the size of a char, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?C:CHARBITS:
?C: This symbol contains the size of a char, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define CHARSIZE $charsize  /**/
?H:#define CHARBITS $charbits  /**/
?H:.
?F:!try
: length of character in bytes. Is always 1, otherwise it is not C
: This used to be a test using sizeof
charsize=1

: Check for the number of bits in a character
case "$charbits" in
") echo "Checking how long a character is (in bits)..." >&4
 $cat >try.c <<EOCP
#include <stdio.h>
int main ()
{
   int n;
   unsigned char c;
   for (c = 1, n = 0; c; c <<= 1, n++) ;
```

```
   printf ("%d\n", n);
   return (0);
   }
EOCP
 set try
 if eval $compile_ok; then
  dflt=`$run ./try`
 else
  dflt='8'
  echo "(I
 can't seem to compile the test program.  Guessing...)"
 fi
 ;;
*)
 dflt="$charbits"
 ;;
esac
rp="What is the length of a character (in bits)?"
. ./myread
charbits="$ans"
$rm_try
case "$charbits" in
8) ;;
*) cat >&4 << EOM
Your system has an unsigned character size of $charbits bits, which
is rather unusual (normally it is 8 bits).  Perl likely will not work
correctly on your system, with subtle bugs in various places.
EOM
 rp='Do you really want to continue?'
 dflt='n'
 . ./myread
 case "$ans" in
  [yY]) echo >&4 "Okay, continuing." ;;
  *) exit 1    ;;
 esac
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/charsize.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_strxfrm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_strxfrm.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:12:04  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_strxfrm: Inlibc
?MAKE: -pick add $@ %<
?S:d_strxfrm:
?S: This variable conditionally defines HAS_STRXFRM if strxfrm() is
?S: available to transform strings.
?S:.
?C:HAS_STRXFRM:
?C: This symbol, if defined, indicates that the strxfrm() routine is
?C: available to transform
 strings.
?C:.
?H:#$d_strxfrm HAS_STRXFRM /**/
?H:.
?LINT:set d_strxfrm
: see if strxfrm exists
set strxfrm d_strxfrm
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strxfrm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2017, Karl Williamson
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_mbrlen: Inlibc
?MAKE: -pick add $@ %<
?S:d_mbrlen:
?S: This variable conditionally defines the HAS_MBRLEN symbol if the
?S: mbrlen() routine is available to be used to get the length of
?S: multi-byte character strings.
?S:.
```

```
?C:HAS_MBRLEN:
?C: This symbol, if defined, indicates that the mbrlen routine is
?C: available to get the length of multi-byte character strings.
?C:.
?H:#$d_mbrlen HAS_MBRLEN /**/
?H:.
?LINT: set d_mbrlen
: see if mbrlen exists
set mbrlen d_mbrlen
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_mbrlen.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: html1dir.U,v $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: html1dir.U,v $
?RCS:
?MAKE:html1dir html1direxp installhtml1dir: cat Loc Myread \
 spackage test Getfile Setprefixvar Prefixit Prefixup
?MAKE: -pick add $@ %<
?Y:TOP
?D:html1dir=''
?S:html1dir:
?S: This variable contains the name of the directory in which html
?S: source pages are to be put.  This directory is for pages
?S: that describe whole programs, not libraries or modules.  It
?S: is intended to correspond roughly to section 1 of the Unix
?S: manuals.
?S:.
?D:html1direxp=''
?S:html1direxp:
?S: This
 variable is the same as the html1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installhtml1dir=''
?S:installhtml1dir:
```

```
?S: This variable is really the same as html1direxp, unless you are
?S: using a different installprefix.  For extra portability, you
?S: should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set html1direxp
?LINT:set installhtml1dir
: determine where html pages for programs go
set html1dir html1dir none
eval $prefixit
$cat <<EOM

If you wish to install html files for programs in $spackage, indicate
the appropriate directory here.  To skip installing html files,
answer "none".
EOM
case "$html1dir" in
"|none|$undef|' ') dflt=none ;;
*) dflt=$html1dir ;;
esac
fn=dn+~
rp="Directory for the main $spackage html pages?"
. ./getfile
prefixvar=html1dir
. ./setprefixvar
: Use ' ' for none so value is preserved next time through Configure
$test X"$html1dir" = "X" && html1dir=' '

Found
 in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-
5.34.0/U/installdirs/html1dir.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_psignal.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_psignal.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:49  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:d_psignal: Inlibc
?MAKE: -pick add $@ %<
?S:d_psignal:
?S: This variable conditionally defines the HAS_PSIGNAL symbol, which
?S: indicates that the psignal() routine exists.  The psignal() routine
?S: prints a description of a signal on the standard error output.
?S:.
?C:HAS_PSIGNAL (PSIGNAL):
?C: This symbol, if defined, indicates
 that the psignal() routine exists.
?C:.
?H:#$d_psignal HAS_PSIGNAL  /**/
?H:.
?LINT:set d_psignal
: see if psignal exists
set psignal d_psignal
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_psignal.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: lex.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Orginal Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: lex.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:22:50  ram
?RCS: patch36: spurious single quote could cause Configure to crash
?RCS: patch36: (reported by Xavier Le Vourch <xavierl@eiffel.com>.)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:27:09  ram
?RCS: patch32: added lexflags variable for lex flags setting
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:06:01  ram
?RCS: patch23: added
 trailing blank line for metalint
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:55  ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lex lexflags: Guess Myread Oldconfig flex test
?MAKE: -pick add $@ %<
?S:lex:
?S: This variable holds the name of the lexical analyser generator we
?S: want to use in the Makefile. It can be lex or flex.
?S:.
?S:lexflags:
?S: This variable holds any flags that should be passed to the lexical
?S: analyzer.  It is up to the Makefile to use it.
?S:.
: determine lexical analyser generator
case "$lex" in
")
 dflt=lex;;
*)
 dflt="$lex";;
esac
echo " "
if $test -f "$flex"; then
 rp='Which lexical analyser generator (lex or flex) shall I use?'
else
 rp='Which lexical analyser generator shall I use?'
fi
. ./myread
lex="$ans"

@if lexflags
: if using lex this will normally be useless, but flex frequently takes args
echo " "
case "$lexflags" in
") dflt='none';;
*) dflt="$lexflags";;
esac
rp="What flags should be given to $lex?"
. ./myread
case "$ans"
 in
none) lexflags=";;
*) lexflags="$ans";;
esac

@end
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/lex.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_arpainet.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_arpainet.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_arpainet: Inhdr
?MAKE: -pick add $@ %<
?S:i_arpainet:
?S: This variable conditionally defines the I_ARPA_INET symbol,
?S: and indicates whether a C program should include <arpa/inet.h>.
?S:.
?C:I_ARPA_INET:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <arpa/inet.h> to get inet_addr and friends
 declarations.
?C:.
?H:#$i_arpainet I_ARPA_INET  /**/
?H:.
?LINT:set i_arpainet
: see if arpa/inet.h has to be included
set arpa/inet.h i_arpainet
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_arpainet.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_stdstdio.U,v 3.0.1.3 1997/02/28 15:46:32 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 3.0.
```

```
?RCS:
?RCS: Original Author: Tye McQueen <tye@metronet.com>
?RCS:
?RCS: $Log: d_stdstdio.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:46:32  ram
?RCS: patch61: merged with perl5's unit
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  14:06:54  ram
?RCS: patch56: typo fix on ?C: line for FILE_bufsiz
?RCS: patch56: fixed unbalanced parenthesis (ADO)
?RCS: patch56: check whether FILE_cnt and FILE_ptr can be assigned to (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1995/05/12  12:12:11  ram
?RCS:
 patch54: complete rewrite by Tye McQueen to fit modern systems
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_stdstdio d_stdiobase stdio_ptr stdio_cnt \
 d_stdio_ptr_lval_sets_cnt d_stdio_ptr_lval_nochange_cnt stdio_base \
 stdio_bufsiz d_stdio_cnt_lval d_stdio_ptr_lval stdio_filbuf: cat \
 Compile contains rm_try d_gnulibc gnulibc_version i_stdlib \
 Setvar Findhdr Oldconfig run to
?MAKE: -pick weed $@ %<
?S:d_stdstdio:
?S: This variable conditionally defines USE_STDIO_PTR if this system
?S: has a FILE structure declaring usable _ptr and _cnt fields (or
?S: equivalent) in stdio.h.
?S:.
?S:stdio_ptr:
?S: This variable defines how, given a FILE pointer, fp, to access the
?S: _ptr field (or equivalent) of stdio.h's FILE structure.  This will
?S: be used to define the macro FILE_ptr(fp).
?S:.
?S:d_stdio_ptr_lval:
?S: This variable conditionally defines STDIO_PTR_LVALUE if the
?S: FILE_ptr macro can be used as an lvalue.
?S:.
?S:stdio_cnt:
?S: This
 variable defines how, given a FILE pointer, fp, to access the
?S: _cnt field (or equivalent) of stdio.h's FILE structure.  This will
?S: be used to define the macro FILE_cnt(fp).
?S:.
?S:d_stdio_cnt_lval:
?S: This variable conditionally defines STDIO_CNT_LVALUE if the
?S: FILE_cnt macro can be used as an lvalue.
```

```
?S:.
?S:d_stdio_ptr_lval_sets_cnt:
?S: This symbol is defined if using the FILE_ptr macro as an lvalue
?S: to increase the pointer by n has the side effect of decreasing the
?S: value of File_cnt(fp) by n.
?S:.
?S:d_stdio_ptr_lval_nochange_cnt:
?S: This symbol is defined if using the FILE_ptr macro as an lvalue
?S: to increase the pointer by n leaves File_cnt(fp) unchanged.
?S:.
?S:stdio_filbuf:
?S: This variable defines how, given a FILE pointer, fp, to tell
?S: stdio to refill its internal buffers (?).  This will
?S: be used to define the macro FILE_filbuf(fp).
?S:.
?S:d_stdiobase:
?S: This variable conditionally defines USE_STDIO_BASE if this system
?S: has
 a FILE structure declaring a usable _base field (or equivalent)
?S: in stdio.h.
?S:.
?S:stdio_base:
?S: This variable defines how, given a FILE pointer, fp, to access the
?S: _base field (or equivalent) of stdio.h's FILE structure.  This will
?S: be used to define the macro FILE_base(fp).
?S:.
?S:stdio_bufsiz:
?S: This variable defines how, given a FILE pointer, fp, to determine
?S: the number of bytes store in the I/O buffer pointer to by the
?S: _base field (or equivalent) of stdio.h's FILE structure.  This will
?S: be used to define the macro FILE_bufsiz(fp).
?S:.
?C:USE_STDIO_PTR ~ d_stdstdio (USE_STD_STDIO STDSTDIO):
?C: This symbol is defined if the _ptr and _cnt fields (or similar)
?C: of the stdio FILE structure can be used to access the stdio buffer
?C: for a file handle.  If this is defined, then the FILE_ptr(fp)
?C: and FILE_cnt(fp) macros will also be defined and should be used
?C: to access these fields.
?C:.
?C:FILE_ptr:
?C: This macro is used to access the _ptr
 field (or equivalent) of the
?C: FILE structure pointed to by its argument. This macro will always be
?C: defined if USE_STDIO_PTR is defined.
?C:.
?C:STDIO_PTR_LVALUE:
?C: This symbol is defined if the FILE_ptr macro can be used as an
?C: lvalue.
```

```
?C:.
?C:FILE_cnt:
?C: This macro is used to access the _cnt field (or equivalent) of the
?C: FILE structure pointed to by its argument. This macro will always be
?C: defined if USE_STDIO_PTR is defined.
?C:.
?C:STDIO_CNT_LVALUE:
?C: This symbol is defined if the FILE_cnt macro can be used as an
?C: lvalue.
?C:.
?C:STDIO_PTR_LVAL_SETS_CNT:
?C: This symbol is defined if using the FILE_ptr macro as an lvalue
?C: to increase the pointer by n has the side effect of decreasing the
?C: value of File_cnt(fp) by n.
?C:.
?C:STDIO_PTR_LVAL_NOCHANGE_CNT:
?C: This symbol is defined if using the FILE_ptr macro as an lvalue
?C: to increase the pointer by n leaves File_cnt(fp) unchanged.
?C:.
?C:FILE_filbuf:
?C: This macro is used to access the internal stdio
 _filbuf function
?C: (or equivalent), if STDIO_CNT_LVALUE and STDIO_PTR_LVALUE
?C: are defined.  It is typically either _filbuf or __filbuf.
?C: This macro will only be defined if both STDIO_CNT_LVALUE and
?C: STDIO_PTR_LVALUE are defined.
?C:.
?H:?d_stdstdio:#$d_stdstdio USE_STDIO_PTR /**/
?H:?d_stdstdio:#ifdef USE_STDIO_PTR
?H:#define FILE_ptr(fp) $stdio_ptr
?H:#$d_stdio_ptr_lval STDIO_PTR_LVALUE  /**/
?H:#define FILE_cnt(fp) $stdio_cnt
?H:#$d_stdio_cnt_lval STDIO_CNT_LVALUE  /**/
?H:#$d_stdio_ptr_lval_sets_cnt STDIO_PTR_LVAL_SETS_CNT /**/
?H:#$d_stdio_ptr_lval_nochange_cnt STDIO_PTR_LVAL_NOCHANGE_CNT /**/
?H:?FILE_filbuf:#if defined(STDIO_PTR_LVALUE) && defined(STDIO_CNT_LVALUE)
?H:?FILE_filbuf:#define FILE_filbuf(fp) $stdio_filbuf  /**/
?H:?FILE_filbuf:#endif
?H:?d_stdstdio:#endif
?H:.
?W:d_stdstdio:FILE_ptr FILE_cnt FILE_filbuf
?C:USE_STDIO_BASE ~ d_stdiobase:
?C: This symbol is defined if the _base field (or similar) of the
?C: stdio FILE structure can be used to access the
 stdio buffer for
?C: a file handle.  If this is defined, then the FILE_base(fp) macro
?C: will also be defined and should be used to access this field.
?C: Also, the FILE_bufsiz(fp) macro will be defined and should be used
```

```
?C: to determine the number of bytes in the buffer.  USE_STDIO_BASE
?C: will never be defined unless USE_STDIO_PTR is.
?C:.
?C:FILE_base:
?C: This macro is used to access the _base field (or equivalent) of the
?C: FILE structure pointed to by its argument. This macro will always be
?C: defined if USE_STDIO_BASE is defined.
?C:.
?C:FILE_bufsiz:
?C: This macro is used to determine the number of bytes in the I/O
?C: buffer pointed to by _base field (or equivalent) of the FILE
?C: structure pointed to its argument. This macro will always be defined
?C: if USE_STDIO_BASE is defined.
?C:.
?H:?d_stdiobase:#$d_stdiobase USE_STDIO_BASE /**/
?H:?d_stdiobase:#ifdef USE_STDIO_BASE
?H:#define FILE_base(fp) $stdio_base
?H:#define FILE_bufsiz(fp) $stdio_bufsiz
?H:?d_stdiobase:#endif
?H:.
?W:d_stdiobase:FILE_base
 FILE_bufsiz
?T:ptr_lval cnt_lval filbuf xxx
?F:!try
?LINT:set d_stdstdio d_stdiobase
: see if _ptr and _cnt from stdio act std
echo " "

if $contains '_lbfsize' `./findhdr stdio.h` >/dev/null 2>&1 ; then
 echo "(Looks like you have stdio.h from BSD.)"
 case "$stdio_ptr" in
 '') stdio_ptr='((fp)->_p)'
  ptr_lval=$define
  ;;
 *) ptr_lval=$d_stdio_ptr_lval;;
 esac
 case "$stdio_cnt" in
 '') stdio_cnt='((fp)->_r)'
  cnt_lval=$define
  ;;
 *) cnt_lval=$d_stdio_cnt_lval;;
 esac
 case "$stdio_base" in
 '') stdio_base='((fp)->_ub._base ? (fp)->_ub._base : (fp)->_bf._base)';;
 esac
 case "$stdio_bufsiz" in
 '') stdio_bufsiz='((fp)->_ub._base ? (fp)->_ub._size : (fp)->_bf._size)';;
 esac
```

```
elif $contains '_IO_fpos_t' `./findhdr stdio.h` `./findhdr libio.h` >/dev/null 2>&1 ; then
 echo "(Looks like you have stdio.h from Linux.)"
 case "$stdio_ptr" in
 ") stdio_ptr='((fp)->_IO_read_ptr)'
  ptr_lval=$define
  ;;
 *) ptr_lval=$d_stdio_ptr_lval;;
 esac
 case "$stdio_cnt"
 in
 ") stdio_cnt='((fp)->_IO_read_end - (fp)->_IO_read_ptr)'
  cnt_lval=$undef
  ;;
 *) cnt_lval=$d_stdio_cnt_lval;;
 esac
 case "$stdio_base" in
 ") stdio_base='((fp)->_IO_read_base)';;
 esac
 case "$stdio_bufsiz" in
 ") stdio_bufsiz='((fp)->_IO_read_end - (fp)->_IO_read_base)';;
 esac
else
 case "$stdio_ptr" in
 ") stdio_ptr='((fp)->_ptr)'
  ptr_lval=$define
  ;;
 *) ptr_lval=$d_stdio_ptr_lval;;
 esac
 case "$stdio_cnt" in
 ") stdio_cnt='((fp)->_cnt)'
  cnt_lval=$define
  ;;
 *) cnt_lval=$d_stdio_cnt_lval;;
 esac
 case "$stdio_base" in
 ") stdio_base='((fp)->_base)';;
 esac
 case "$stdio_bufsiz" in
 ") stdio_bufsiz='((fp)->_cnt + (fp)->_ptr - (fp)->_base)';;
 esac
fi

: test whether _ptr and _cnt really work
echo "Checking how std your stdio is..." >&4
$cat >try.c <<EOP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
```

```
#include <stdlib.h>
#endif
#define FILE_ptr(fp) $stdio_ptr
#define FILE_cnt(fp) $stdio_cnt
int main() {
 FILE *fp = fopen("try.c", "r");
 char c = getc(fp);
 if
 (
  18 <= FILE_cnt(fp) &&
  strncmp(FILE_ptr(fp), "include <stdio.h>\n", 18) == 0
 )
  exit(0);
 exit(1);
}
EOP
val="$undef"
set try
if eval $compile && $to try.c; then
 if $run ./try; then
  echo "Your stdio acts pretty std."
  val="$define"
 else
  echo "Your stdio isn't very std."
 fi
else
 echo "Your stdio doesn't appear very std."
fi
$rm_try

# glibc 2.2.90 and above apparently change stdio streams so Perl's
# direct buffer manipulation no longer works.  The Configure tests
# should be changed to correctly detect this, but until then,
# the following check should at least let perl compile and run.
# (This quick fix should be updated before 5.8.1.)
# To be defensive, reject all unknown versions, and all versions  > 2.2.9.
# A. Dougherty, June 3, 2002.
case "$d_gnulibc" in
$define)
 case "$gnulibc_version" in
 2.[01]*)  ;;
 2.2) ;;
 2.2.[0-9]) ;;
 *)  echo "But I will not snoop inside glibc $gnulibc_version stdio buffers."
  val="$undef"
  ;;
 esac
 ;;
```

```
esac
set d_stdstdio
eval
 $setvar

@if STDIO_PTR_LVALUE || d_stdio_ptr_lval
: Can _ptr be used as an lvalue?
?X: Only makes sense if we have a known stdio implementation.
case "$d_stdstdio$ptr_lval" in
$define$define) val=$define ;;
*) val=$undef ;;
esac
set d_stdio_ptr_lval
eval $setvar
@end

@if STDIO_CNT_LVALUE || d_stdio_cnt_lval
: Can _cnt be used as an lvalue?
?X: Only makes sense if we have a known stdio implementation.
case "$d_stdstdio$cnt_lval" in
$define$define) val=$define ;;
*) val=$undef ;;
esac
set d_stdio_cnt_lval
eval $setvar
@end

@if FILE_filbuf
: How to access the stdio _filbuf or __filbuf function.
: If this fails, check how the getc macro in stdio.h works.
case "${d_stdio_ptr_lval}${d_stdio_cnt_lval}" in
${define}${define})
 : Try $hint value, if any, then _filbuf, __filbuf, _fill, then punt.
 : _fill is for os/2.
 xxx='notok'
 for filbuf in $stdio_filbuf '_filbuf(fp)' '__filbuf(fp) ' '_fill(fp)' ; do
  $cat >try.c <<EOP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#define
 FILE_ptr(fp) $stdio_ptr
#define FILE_cnt(fp) $stdio_cnt
#define FILE_filbuf(fp) $filbuf
int main() {
 FILE *fp = fopen("try.c", "r");
```

```
 int c;
 c = getc(fp);
 c = FILE_filbuf(fp);  /* Just looking for linker errors.*/
 exit(0);
}
EOP
  set try
  if eval $compile && $to try.c && $run ./try; then
   echo "Your stdio appears to use $filbuf"
   stdio_filbuf="$filbuf"
   xxx='ok'
   break
  else
   echo "Hmm.  $filbuf doesn't seem to work."
  fi
  $rm_try
 done
 case "$xxx" in
 notok) echo "I can't figure out how to access _filbuf"
   echo "I'll just have to work around it."
   d_stdio_ptr_lval="$undef"
   d_stdio_cnt_lval="$undef"
   ;;
 esac
 ;;
esac
@end

@if STDIO_PTR_LVALUE
: test whether setting _ptr sets _cnt as a side effect
d_stdio_ptr_lval_sets_cnt="$undef"
d_stdio_ptr_lval_nochange_cnt="$undef"
case "$d_stdio_ptr_lval$d_stdstdio" in
$define$define)
 echo "Checking to see what happens if we set the stdio ptr..." >&4
$cat >try.c <<EOP
#include <stdio.h>
/* Can
 we scream? */
/* Eat dust sed :-) */
/* In the buffer space, no one can hear you scream. */
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#define FILE_ptr(fp) $stdio_ptr
#define FILE_cnt(fp) $stdio_cnt
#include <sys/types.h>
```

```
int main() {
 FILE *fp = fopen("try.c", "r");
 int c;
 char *ptr;
 size_t cnt;
 if (!fp) {
     puts("Fail even to read");
     exit(1);
 }
 c = getc(fp); /* Read away the first # */
 if (c == EOF) {
     puts("Fail even to read");
     exit(1);
 }
 if (!(
  18 <= FILE_cnt(fp) &&
  strncmp(FILE_ptr(fp), "include <stdio.h>\n", 18) == 0
 )) {
  puts("Fail even to read");
  exit (1);
 }
 ptr = (char*) FILE_ptr(fp);
 cnt = (size_t)FILE_cnt(fp);

 FILE_ptr(fp) += 42;

 if ((char*)FILE_ptr(fp) != (ptr + 42)) {
  printf("Fail ptr check %p != %p", FILE_ptr(fp), (ptr + 42));
  exit (1);
 }
 if (FILE_cnt(fp) <= 20) {
  printf ("Fail (<20 chars to test)");
  exit (1);
 }
 if (strncmp(FILE_ptr(fp), "Eat dust sed :-) */\n", 20) != 0) {
  puts("Fail compare");
  exit
 (1);
 }
 if (cnt == FILE_cnt(fp)) {
  puts("Pass_unchanged");
  exit (0);
 }
 if (FILE_cnt(fp) == (cnt - 42)) {
  puts("Pass_changed");
  exit (0);
 }
 printf("Fail count was %d now %d\n", cnt, FILE_cnt(fp));
```

```
 return 1;

}
EOP
 set try
 if eval $compile && $to try.c; then
  case `$run ./try` in
  Pass_changed)
   echo "Increasing ptr in your stdio decreases cnt by the same amount.  Good." >&4
   d_stdio_ptr_lval_sets_cnt="$define" ;;
  Pass_unchanged)
   echo "Increasing ptr in your stdio leaves cnt unchanged.  Good." >&4
   d_stdio_ptr_lval_nochange_cnt="$define" ;;
  Fail*)
   echo "Increasing ptr in your stdio didn't do exactly what I expected.  We'll not be doing that then." >&4 ;;
  *)
   echo "It appears attempting to set ptr in your stdio is a bad plan." >&4 ;;
 esac
 else
  echo "It seems we can't set ptr in your stdio.  Nevermind." >&4
 fi
 $rm_try
 ;;
esac
@end

@if d_stdiobase || USE_STDIO_BASE || FILE_base || FILE_bufsiz
: see if _base is also standard
val="$undef"
case
 "$d_stdstdio" in
$define)
 $cat >try.c <<EOP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#define FILE_base(fp) $stdio_base
#define FILE_bufsiz(fp) $stdio_bufsiz
int main() {
 FILE *fp = fopen("try.c", "r");
 char c = getc(fp);
 if (
  19 <= FILE_bufsiz(fp) &&
  strncmp(FILE_base(fp), "#include <stdio.h>\n", 19) == 0
 )
  exit(0);
```

```
 exit(1);
}
EOP
 set try
 if eval $compile && $to try.c; then
  if $run ./try; then
   echo "And its _base field acts std."
   val="$define"
  else
   echo "But its _base field isn't std."
  fi
 else
  echo "However, it seems to be lacking the _base field."
 fi
 $rm_try
 ;;
esac
set d_stdiobase
eval $setvar

@end
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_stdstdio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sbrktype.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sbrktype.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:43  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:sbrktype: Myread Oldconfig Loc contains Findhdr
?MAKE: -pick add $@ %<
?S:sbrktype:
?S: This variable defines sbrktype to be something like caddr_t, char *,
?S: or whatever type is used to declare sbrk() in the kernel.
?S:.
?C:Caddr_t (SBRKTYPE):
```

```
?C: This symbol holds the type of a core address. It is inteded to be used
?C: to safely
 declare the return type of system calls like sbrk(). It might
?C: be necessary to include <sys/types.h> as well.
?C:.
?H:#define Caddr_t $sbrktype /* <core address> type */
?H:.
: see what type sbrk is declared as in the kernel
case "$sbrktype" in
")
 if $contains 'caddr_t;' `./findhdr sys/types.h` >/dev/null 2>&1 ; then
  dflt='caddr_t';
 else
  dflt='char *';
 fi
 ;;
*)  dflt="$sbrktype"
 ;;
esac
echo " "
rp="What is the return type of sbrk() on this system?"
. ./myread
sbrktype="$ans"
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/sbrktype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysdir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysdir.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:22:30  ram
?RCS: patch32: fixed typo in I_SYS_DIR symbol name
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:30  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_sysdir: Inhdr
?MAKE: -pick add $@ %<
```

```
?S:i_sysdir:
?S: This variable conditionally defines the I_SYS_DIR symbol, and indicates
?S: whether a C program should include <sys/dir.h>.
?S:.
?C:I_SYS_DIR (I_SYSDIR):
?C: This symbol, if
 defined, indicates to the C program that it should
?C: include <sys/dir.h>.
?C:.
?H:#$i_sysdir I_SYS_DIR  /**/
?H:.
?LINT:set i_sysdir
: see if this is an sysdir system
set sys/dir.h i_sysdir
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sysdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_siglist.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_siglist.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:22  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_siglist: Csym Setvar
?MAKE: -pick add $@ %<
?S:d_siglist:
?S: This variable conditionally defines HAS_SYS_SIGLIST if sys_siglist[] is
?S: available to translate signal numbers to strings.
?S:.
?C:HAS_SYS_SIGLIST (SYS_SIGLIST):
?C: This symbol, if defined, indicates that the sys_siglist array is
?C: available to translate signal numbers
 to strings.
?C:.
?H:#$d_siglist HAS_SYS_SIGLIST  /**/
?H:.
```

```
?LINT:set d_siglist
: see if sys_siglist[] exist
echo " "
if set sys_siglist val -a d_siglist; eval $csym; $val; then
 echo "You have sys_siglist[] for signal description." >&4
 val="$define"
else
 echo "You don't have sys_siglist[]." >&4
 val="$undef"
fi
set d_siglist
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_siglist.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: ccflags.U,v 3.0.1.9 1997/02/28 15:27:07 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: ccflags.U,v $
?RCS: Revision 3.0.1.9  1997/02/28  15:27:07  ram
?RCS: patch61: removed support for NO_PROTOTYPE detection on SCO
?RCS: patch61: new locincpth variable
?RCS: patch61: added info on the "additional ld flags" question
?RCS:
?RCS: Revision 3.0.1.8  1995/07/25  13:48:54  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.7  1995/05/12  12:08:33  ram
?RCS: patch54: now checks for cc/ccflags/ldflags
 coherency
?RCS:
?RCS: Revision 3.0.1.6  1994/10/29  16:07:02  ram
?RCS: patch36: gcc versioning no longer relies on the C compiler's name
?RCS: patch36: simplified check for gcc version checking (ADO)
?RCS:
?RCS: Revision 3.0.1.5  1994/08/29  16:06:35  ram
?RCS: patch32: propagate -posix flag from ccflags to ldflags
?RCS:
```

```
?RCS: Revision 3.0.1.4  1994/05/06  14:28:45  ram
?RCS: patch23: -fpcc-struct-return only needed in gcc 1.x (ADO)
?RCS: patch23: cppflags now computed on an option-by-option basis
?RCS: patch23: magically added cc flags now only done the first time
?RCS:
?RCS: Revision 3.0.1.3  1993/09/13  15:58:29  ram
?RCS: patch10: explicitly mention -DDEBUG just in case they need it (WAD)
?RCS: patch10: removed all the "tans" variable usage (WAD)
?RCS:
?RCS: Revision 3.0.1.2  1993/08/27  14:39:38  ram
?RCS: patch7: added support for OSF/1 machines
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:00:24  ram
?RCS: patch6: added defaults for cppflags, ccflags and ldflags
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:05:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:ccflags ldflags lkflags cppflags optimize locincpth: test cat \
 Myread Guess Options Oldconfig +gccversion mips_type +usrinc \
 package contains rm +cc cppstdin cppminus cpprun cpplast libpth \
 libs loclibpth hint usesocks sh run rm_try sysroot
?MAKE: -pick add $@ %<
?S:ccflags:
?S: This variable contains any additional C compiler flags desired by
?S: the user.  It is up to the Makefile to use this.
?S:.
?S:cppflags:
?S: This variable holds the flags that will be passed to the C pre-
?S: processor. It is up to the Makefile to use it.
?S:.
?S:optimize:
?S: This variable contains any optimizer/debugger flag that should be used.
?S: It is up to the Makefile to use it.
?S:.
?S:ldflags:
?S: This variable contains any additional C loader flags desired by
?S: the user.  It is up to the Makefile to use this.
?S:.
?S:lkflags:
?S: This variable contains any additional C partial linker flags desired
 by
?S: the user.  It is up to the Makefile to use this.
?S:.
?S:locincpth:
?S: This variable contains a list of additional directories to be
?S: searched by the compiler.  The appropriate '-I' directives will
```

```
?S: be added to ccflags.  This is intended to simplify setting
?S: local directories from the Configure command line.
?S: It's not much, but it parallels the loclibpth stuff in libpth.U.
?S:.
?T:inctest thisincl xxx inclwanted ftry previous thislibdir
?T:EBUGGING DEBUGGING
?T:check flag callback checkccflag
?F:!cpp.c !gcctest !try
?D:cppflags=''
?D:ccflags=''
?D:ldflags=''
?D:optimize=''
?LINT:extern _sysroot
?INIT:: Possible local include directories to search.
?INIT:: Set locincpth to "" in a hint file to defeat local include searches.
?INIT:locincpth="/usr/local/include /opt/local/include /usr/gnu/include"
?INIT:locincpth="$locincpth /opt/gnu/include /usr/GNU/include /opt/GNU/include"
?INIT::
?INIT:: no include file wanted by default
?INIT:inclwanted=''
?INIT:
?INIT:: Enable
 -DEBUGGING and -DDEBUGGING from the command line
?INIT:EBUGGING=''
?INIT:DEBUGGING=''
?INIT:
: determine optimization, if desired, or use for debug flag also
?X: Allow for Configure -Uoptimize -- it's not strictly sensible, but
?X: it has happened and we know what they mean.   AD  2/16/98
case "$optimize" in
' '|$undef) dflt='none';;
'') dflt='-O';;
*) dflt="$optimize";;
esac
$cat <<EOH

By default, $package compiles with the -O flag to use the optimizer.
Alternately, you might want to use the symbolic debugger, which uses
the -g flag (on traditional Unix systems).  Either flag can be
specified here.  To use neither flag, specify the word "none".

EOH
rp="What optimizer/debugger flag should be used?"
. ./myread
optimize="$ans"
case "$optimize" in
'none') optimize=" ";;
esac
```

```
: Check what DEBUGGING is required from the command line
: -DEBUGGING      or -DDEBUGGING or
: -DEBUGGING=both   = -g + -DDEBUGGING
: -DEBUGGING=-g   or -Doptimize=-g = -g
: -DEBUGGING=none or -UDEBUGGING =
: -DEBUGGING=old
  or -DEBUGGING=default = ? $optimize
case "$EBUGGING" in
") ;;
*) DEBUGGING=$EBUGGING ;;
esac

case "$DEBUGGING" in
-g|both|$define)
   case "$optimize" in
 *-g*) ;;
 *)    optimize="$optimize -g" ;;
   esac ;;
none|$undef)
   case "$optimize" in
 *-g*) set `echo "X $optimize " | sed 's/ -g / /'`
  shift
  optimize="$*"
  ;;
   esac ;;
esac

dflt="
case "$DEBUGGING" in
both|$define) dflt='-DDEBUGGING'
esac

: argument order is deliberate, as the flag will start with - which set could
: think is an option
checkccflag='check=$1; flag=$2; callback=$3;
echo " ";
echo "Checking if your compiler accepts $flag" 2>&1;
[ "X$sysroot" != "X" ] && echo "For sysroot = $sysroot";
echo "int main(void) { return 0; }" > gcctest.c;
if $cc $_sysroot -O2 $flag -o gcctest gcctest.c 2>gcctest.out && $run ./gcctest; then
   echo "Yes, it does." 2>&1;
   if $test -s gcctest.out ; then
       echo "But your platform does not like it:";
       cat gcctest.out;
   else
 case "$ccflags" in
 *$check*)
```

```
    echo "Leaving current flags $ccflags alone." 2>&1
     ;;
 *) dflt="$dflt $flag";
     eval $callback
     ;;
 esac
   fi
else
   echo "Nope, it does not, but that is ok." 2>&1;
fi
'

: We will not override a previous value, but we might want to
: augment a hint file
case "$hint" in
default|recommended)
 case "$gccversion" in
 1.*) dflt="$dflt -fpcc-struct-return" ;;
 esac
 case "$optimize:$DEBUGGING" in
 *-g*:old) dflt="$dflt -DDEBUGGING";;
 esac
?X: check for POSIXized ISC
 case "$gccversion" in
 2.*) if $test -d /etc/conf/kconfig.d &&
   $contains _POSIX_VERSION $usrinc/sys/unistd.h >/dev/null 2>&1
  then
   # Interactive Systems (ISC) POSIX mode.
   dflt="$dflt -posix"
  fi
  ;;
 esac
?X: If the user has gcc-2.95 or greater, try adding -fno-strict-alias.
?X: Since the gcc "version" can be non-numeric, e.g.
?X: "2.95.1 19990809 (prerelease)" , we'll do the test on any version
?X: greater than 2.8.
?X: --Andy Dougherty  27 Aug 1999
 case "$gccversion" in
 1.*) ;;
 2.[0-8]*)
 ;;
 ?*) set strict-aliasing -fno-strict-aliasing
  eval $checkccflag
  ;;
 esac
?X: HMB 200405
?X: -pipe has shown a compile time speedup of about 40% on Linux and HP-UX
```

```
?X: and also worked on cygwin-1.5.9
?X: If a system fails, disable it in the hints. 99% of gcc uses binutils
 # For gcc, adding -pipe speeds up compilations for some, but apparently
 # some assemblers can't read from stdin.  (It also slows down compilations
 # in other cases, but those are apparently rarer these days.)  AD 5/2004.
 case "$gccversion" in
 ?*) set pipe -pipe
  eval $checkccflag
  ;;
 esac

?X: NWC 200712
 # on x86_64 (at least) we require an extra library (libssp) in the
 # link command line. This library is not named, so I infer that it is
 # an implementation detail that may change. Hence the safest approach
 # is to add the flag to the flags passed to the compiler at link time,
 # as that way the compiler can do the right implementation dependant
 # thing. (NWC)
 case "$ccflags" in
 *-fno-stack-protector*)

    echo "Do not add -fstack-protector nor -fstack-protector-strong" 2>&1
     ;;
 *) case "$gccversion" in
    ?*) set stack-protector-strong -fstack-protector-strong
  eval $checkccflag
  case "$dflt" in
  *-fstack-protector-strong*) ;; # It got added.
  *) # Try the plain/older -fstack-protector.
     set stack-protector -fstack-protector
     eval $checkccflag
     ;;
  esac
  ;;
     esac
     ;;
 esac
esac

?X: In USG mode, a MIPS system may need some BSD includes
case "$mips_type" in
*BSD*|'') inclwanted="$locincpth $usrinc";;
*) inclwanted="$locincpth $inclwanted $usrinc/bsd";;
esac
for thisincl in $inclwanted; do
 if $test -d $thisincl; then
  if $test x$thisincl != x$usrinc; then
   case "$dflt" in
```

```
   *" -I$thisincl "*);;
   *) dflt="$dflt -I$thisincl ";;
   esac
  fi
 fi
done

?X: Include test function (header, symbol)
inctest='if $contains $2 $usrinc/$1 >/dev/null 2>&1; then
 xxx=true;
elif $contains $2 $usrinc/sys/$1 >/dev/null 2>&1; then
 xxx=true;
else
 xxx=false;
fi;
if
 $xxx; then
 case "$dflt" in
 *$2*);;
 *) dflt="$dflt -D$2";;
 esac;
fi'

set signal.h LANGUAGE_C; eval $inctest

case "$usesocks" in
$define)
 ccflags="$ccflags -DSOCKS"
 ;;
esac

case "$hint" in
default|recommended) dflt="$ccflags $dflt" ;;
*) dflt="$ccflags";;
esac

case "$dflt" in
"|' ') dflt=none;;
esac

$cat <<EOH

Your C compiler may want other flags.  For this question you should include
-I/whatever and -DWHATEVER flags and any other flags used by the C compiler,
but you should NOT include libraries or ld flags like -lwhatever.  If you
want $package to honor its debug switch, you should include -DDEBUGGING here.
Your C compiler might also need additional flags, such as -D_POSIX_SOURCE.
```

```
To use no flags, specify the word "none".

EOH
?X: strip leading space
set X $dflt
shift
dflt=${1+"$@"}
rp="Any additional cc flags?"
. ./myread
case "$ans" in
none) ccflags="";;
*) ccflags="$ans";;
esac

: the following weeds options from ccflags that are of no interest to cpp
case
 "$cppflags" in
") cppflags="$ccflags" ;;
*)  set X $ccflags; shift
   case " $cppflags " in
   *" $1 "*) ;;  # Try to avoid doubling the cppflags.
   *) cppflags="$cppflags $ccflags" ;;
   esac
   ;;
esac
case "$gccversion" in
1.*) cppflags="$cppflags -D__GNUC__"
esac
case "$mips_type" in
");;
*BSD*) cppflags="$cppflags -DSYSTYPE_BSD43";;
esac
case "$cppflags" in
");;
*)
 echo " "
 echo "Let me guess what the preprocessor flags are..." >&4
 set X $cppflags
 shift
 cppflags="
 $cat >cpp.c <<'EOM'
#define BLURFL foo

BLURFL xx LFRULB
EOM
?X:
?X: For each cc flag, try it out with both cppstdin and cpprun, since the
?X: first is almost surely a cc wrapper. We have to try both in case
```

```
?X: of cc flags like '-Olimit 2900' that are actually two words...
?X:
 previous=''
 for flag in $*
 do
  case "$flag" in
  -*) ftry="$flag";;
  *) ftry="$previous $flag";;
  esac
  if $cppstdin -DLFRULB=bar $cppflags $ftry $cppminus <cpp.c \
   >cpp1.out 2>/dev/null && \
   $cpprun -DLFRULB=bar $cppflags
 $ftry $cpplast <cpp.c \
   >cpp2.out 2>/dev/null && \
   $contains 'foo.*xx.*bar' cpp1.out >/dev/null 2>&1 && \
   $contains 'foo.*xx.*bar' cpp2.out >/dev/null 2>&1
  then
   cppflags="$cppflags $ftry"
   previous=''
  else
   previous="$flag"
  fi
 done
 set X $cppflags
 shift
 cppflags=${1+"$@"}
 case "$cppflags" in
 *-*)  echo "They appear to be: $cppflags";;
 esac
 $rm -f cpp.c cpp?.out
 ;;
esac

: flags used in final linking phase
case "$ldflags" in
'') if ./venix; then
  dflt='-i -z'
 else
  dflt=''
 fi
 case "$ccflags" in
 *-posix*) dflt="$dflt -posix" ;;
 esac
 ;;
*) dflt="$ldflags";;
esac
# See note above about -fstack-protector
case "$ccflags" in
```

```
*-fstack-protector-strong*)
 case "$dflt" in
 *-fstack-protector-strong*) ;; # Don't add it again
 *) dflt="$dflt -fstack-protector-strong" ;;
 esac
 ;;
*-fstack-protector*)
 case "$dflt" in
 *-fstack-protector*) ;; # Don't add it again
 *) dflt="$dflt -fstack-protector" ;;
 esac
 ;;
esac

: Try to guess additional flags to
 pick up local libraries.
for thislibdir in $libpth; do
 case " $loclibpth " in
 *" $thislibdir "*)
  case "$dflt " in
  *"-L$thislibdir "*) ;;
  *)  dflt="$dflt -L$thislibdir" ;;
  esac
  ;;
 esac
done

case "$dflt" in
") dflt='none' ;;
esac

$cat <<EOH

Your C linker may need flags.  For this question you should
include -L/whatever and any other flags used by the C linker, but you
should NOT include libraries like -lwhatever.

Make sure you include the appropriate -L/path flags if your C linker
does not normally search all of the directories you specified above,
namely
 $libpth
To use no flags, specify the word "none".

EOH

rp="Any additional ld flags (NOT including libraries)?"
. ./myread
case "$ans" in
```

```
none) ldflags="";;
*) ldflags="$ans";;
esac
rmlist="$rmlist pdp11"

@if lkflags
: partial linking may need other flags
case "$lkflags" in
") case "$ldflags" in
 ") dflt='none';;
 *) dflt="$ldflags";;
 esac;;
*) dflt="$lkflags";;
esac
echo " "
rp="Partial linking flags to be used (NOT
 including -r)?"
. ./myread
case "$ans" in
none) lkflags="";;
*) lkflags="$ans";;
esac

@end
?X:
?X: If the user changes compilers after selecting a hint file, it's
?X: possible that the suggested ccflags/ldflags will be wrong.  Try to
?X: compile and run a simple test program.  Let the user see all the
?X: error messages. -- ADO and RAM
?X: Sometimes, particularly on Linux systems, there is a bad library
?X: (e.g. a dangling symlink or incompatible library or a "run-time"
?X: version but not a "development" version of a library).  This test
?X: will catch those sorts of problems too, though how to fix them
?X: may not be obvious.
?X:
: coherency check
echo " "
echo "Checking your choice of C compiler and flags for coherency..." >&4
$cat > try.c <<'EOF'
#include <stdio.h>
int main() { printf("Ok\n"); return(0); }
EOF
?X: Strip extra blanks in case some of the following variables are empty
set X $cc -o try $optimize $ccflags $ldflags try.c $libs
shift
$cat >try.msg <<'EOM'
I've tried
```

```
 to compile and run the following simple program:

EOM
$cat try.c >> try.msg

$cat >> try.msg <<EOM

I used the command:

 $*
 $run ./try

and I got the following output:

EOM
dflt=y
?X: Use "sh -c" to avoid error messages tagged with leading "Configure:".
?X: We need to try the resulting executable, because cc might yield a 0 status
?X: even when ld failed, in which case the executable will not run properly,
?X: if its x bit is set at all...
if $sh -c "$cc -o try $optimize $ccflags $ldflags try.c $libs" >>try.msg 2>&1; then
 if $sh -c "$run ./try " >>try.msg 2>&1; then
  xxx=`$run ./try`
  case "$xxx" in
  "Ok") dflt=n ;;
  *)    echo 'The program compiled OK, but produced no output.' >> try.msg ;;
  esac
 else
  echo "The program compiled OK, but exited with status $?." >>try.msg
  rp="You have a problem.  Shall I abort Configure"
  dflt=y
 fi
else
 echo "I can't compile the test program." >>try.msg
 rp="You have a BIG problem.  Shall I abort Configure"
 dflt=y
fi
case "$dflt" in
y)
 $cat
 try.msg >&4
?X: using -K will prevent default aborting--maybe they're cross compiling?
 case "$knowitall" in
 ")
  echo "(The supplied flags or libraries might be incorrect.)"
  ;;
 *) dflt=n;;
 esac
```

```
 echo " "
 . ./myread
 case "$ans" in
 n*|N*) ;;
 *) echo "Ok.  Stopping Configure." >&4
  exit 1
  ;;
 esac
 ;;
n) echo "OK, that should do.";;
esac
$rm_try gcctest gcctest.out
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/ccflags.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_gethid.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:10  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_gethid: Inlibc
?MAKE: -pick add $@ %<
?S:d_gethid:
?S: This variable conditionally defines HAS_GETHOSTID if gethostid() is
?S: available to get the host id.
?S:.
?C:HAS_GETHOSTID (GETHOSTID):
?C: This symbol, if defined, indicates that the gethostid system call is
?C: available to get the host id.
?C:.
?H:#$d_gethid HAS_GETHOSTID  /**/
?H:.
?LINT:set
 d_gethid
: see if gethid exists
set gethostid d_gethid
```

```
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_gethid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: mallocsrc.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:10:26  ram
?RCS: patch61: added support for Free_t, the type of free()
?RCS: patch61: replaced .o with $_o all over the place
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:10:46  ram
?RCS: patch23: added support for MYMALLOC, mainly  for perl5 (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:12  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:mallocsrc mallocobj usemymalloc malloctype d_mymalloc \
 freetype: Myread \
 Oldconfig
 package Guess Setvar rm cat +cc +ccflags Findhdr \
 i_malloc i_stdlib sed libs _o ptrsize
?MAKE: -pick add $@ %<
?X: Put near top so that other tests don't erroneously include
?X: -lmalloc.  --AD  22 June 1998
?Y:TOP
?S:usemymalloc:
?S: This variable contains y if the malloc that comes with this package
?S: is desired over the system's version of malloc.  People often include
?S: special versions of malloc for effiency, but such versions are often
?S: less portable.  See also mallocsrc and mallocobj.
?S: If this is 'y', then -lmalloc is removed from $libs.
?S:.
?S:mallocsrc:
?S: This variable contains the name of the malloc.c that comes with
?S: the package, if that malloc.c is preferred over the system malloc.
?S: Otherwise the value is null.  This variable is intended for generating
```

```
?S: Makefiles.
?S:.
?S:d_mymalloc:
?S: This variable conditionally defines MYMALLOC in case other parts
?S: of the source want to take special action if MYMALLOC is used.
?S: This may include different sorts
 of profiling or error detection.
?S:.
?S:mallocobj:
?S: This variable contains the name of the malloc.o that this package
?S: generates, if that malloc.o is preferred over the system malloc.
?S: Otherwise the value is null.  This variable is intended for generating
?S: Makefiles.  See mallocsrc.
?S:.
?S:freetype:
?S: This variable contains the return type of free().  It is usually
?S: void, but occasionally int.
?S:.
?S:malloctype:
?S: This variable contains the kind of ptr returned by malloc and realloc.
?S:.
?C:Free_t:
?C: This variable contains the return type of free().  It is usually
?C: void, but occasionally int.
?C:.
?C:Malloc_t (MALLOCPTRTYPE):
?C: This symbol is the type of pointer returned by malloc and realloc.
?C:.
?H:#define Malloc_t $malloctype   /**/
?H:#define Free_t $freetype   /**/
?H:.
?C:MYMALLOC:
?C: This symbol, if defined, indicates that we're using our own malloc.
?C:.
?H:#$d_mymalloc MYMALLOC   /**/
?H:.
?LINT:change libs
?X: Cannot test for mallocsrc; it
 is the unit's name and there is a bug in
?X: the interpreter which defines all the names, even though they are not used.
@if mallocobj
: determine which malloc to compile in
echo " "
case "$usemymalloc" in
[yY]*|true|$define) dflt='y' ;;
[nN]*|false|$undef) dflt='n' ;;
*)
 case "$ptrsize" in
```

```
 4) dflt='y' ;;
 *) dflt='n' ;;
 esac
 ;;
esac
rp="Do you wish to attempt to use the malloc that comes with $package?"
. ./myread
usemymalloc="$ans"
case "$ans" in
y*|true)
 usemymalloc='y'
 mallocsrc='malloc.c'
 mallocobj="malloc$_o"
 d_mymalloc="$define"
?X: Maybe libs.U should be dependent on mallocsrc.U, but then
?X: most packages that use dist probably don't supply their own
?X: malloc, so this is probably an o.k. comprpomise
 case "$libs" in
 *-lmalloc*)
  : Remove malloc from list of libraries to use
  echo "Removing unneeded -lmalloc from library list" >&4
  set `echo X $libs | $sed -e 's/-lmalloc / /' -e 's/-lmalloc$//'`
  shift
  libs="$*"
  echo "libs = $libs" >&4
  ;;
 esac
 ;;
*)
 usemymalloc='n'
 mallocsrc=''
 mallocobj=''
 d_mymalloc="$undef"
 ;;
esac

@end
@if
 MALLOCPTRTYPE || Malloc_t || Free_t
: compute the return types of malloc and free
echo " "
$cat >malloc.c <<END
#$i_malloc I_MALLOC
#$i_stdlib I_STDLIB
#include <stdio.h>
#include <sys/types.h>
#ifdef I_MALLOC
#include <malloc.h>
```

```
#endif
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#ifdef TRY_MALLOC
void *malloc();
#endif
#ifdef TRY_FREE
void free();
#endif
END
@if MALLOCPTRTYPE || Malloc_t
case "$malloctype" in
")
 if $cc $ccflags -c -DTRY_MALLOC malloc.c >/dev/null 2>&1; then
  malloctype='void *'
 else
  malloctype='char *'
 fi
 ;;
esac
echo "Your system wants malloc to return '$malloctype', it would seem." >&4
@end

@if Free_t
case "$freetype" in
")
 if $cc $ccflags -c -DTRY_FREE malloc.c >/dev/null 2>&1; then
  freetype='void'
 else
  freetype='int'
 fi
 ;;
esac
echo "Your system uses $freetype free(), it would seem." >&4
@end
$rm -f malloc.[co]
@end
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/mallocsrc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: scriptdir.U,v $
?RCS: Revision 3.0.1.3  1995/09/25  09:17:15  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:46:13  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:32:04  ram
?RCS: patch32: now uses installation prefix
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:scriptdir scriptdirexp installscript:
 afs cat test Getfile Loc \
 Oldconfig +bin Prefixit prefixexp Prefixup
?MAKE: -pick add $@ %<
?Y:TOP
?S:scriptdir:
?S: This variable holds the name of the directory in which the user wants
?S: to put publicly scripts for the package in question.  It is either
?S: the same directory as for binaries, or a special one that can be
?S: mounted across different architectures, like /usr/share. Programs
?S: must be prepared to deal with ~name expansion.
?S:.
?S:scriptdirexp:
?S: This variable is the same as scriptdir, but is filename expanded
?S: at configuration time, for programs not wanting to bother with it.
?S:.
?S:installscript:
?S: This variable is usually the same as scriptdirexp, unless you are on
?S: a system running AFS, in which case they may differ slightly. You
?S: should always use this variable within your makefiles for portability.
?S:.
?C:SCRIPTDIR:
?C: This symbol holds the name of the directory in which the user wants
?C: to put publicly executable scripts for the
 package in question.  It
?C: is often a directory that is mounted across diverse architectures.
?C: Programs must be prepared to deal with ~name expansion.
?C:.
?C:SCRIPTDIR_EXP:
```

```
?C: This is the same as SCRIPTDIR, but is filename expanded at
?C: configuration time, for use in programs not prepared to do
?C: ~name substitutions at run-time.
?C:.
?H:#define SCRIPTDIR "$scriptdir" /**/
?H:#define SCRIPTDIR_EXP "$scriptdirexp" /**/
?H:.
: determine where public executable scripts go
set scriptdir scriptdir
eval $prefixit
case "$scriptdir" in
")
 dflt="$bin"
 : guess some guesses
 $test -d /usr/share/scripts && dflt=/usr/share/scripts
 $test -d /usr/share/bin && dflt=/usr/share/bin
 $test -d /usr/local/script && dflt=/usr/local/script
 $test -d $prefixexp/script && dflt=$prefixexp/script
 set dflt
 eval $prefixup
 ;;
*)  dflt="$scriptdir"
 ;;
esac
$cat <<EOM

Some installations have a separate directory just for executable scripts so
that they can mount it across multiple architectures but
 keep the scripts in
one spot.  You might, for example, have a subdirectory of /usr/share for this.
Or you might just lump your scripts in with all your other executables.

EOM
fn=d~
rp='Where do you keep publicly executable scripts?'
. ./getfile
if $test "X$ansexp" != "X$scriptdirexp"; then
 installscript=''
fi
scriptdir="$ans"
scriptdirexp="$ansexp"
if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
scripts reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).
```

```
EOM
 case "$installscript" in
 ") dflt=`echo $scriptdirexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installscript";;
 esac
 fn=de~
 rp='Where will public scripts be installed?'
 . ./getfile
 installscript="$ans"
else
 installscript="$scriptdirexp"
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/scriptdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_dup2.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_dup2.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_dup2: Inlibc
?MAKE: -pick add $@ %<
?S:d_dup2:
?S: This variable conditionally defines HAS_DUP2 if dup2() is
?S: available to duplicate file descriptors.
?S:.
?C:HAS_DUP2 (DUP2):
?C: This symbol, if defined, indicates that the dup2 routine is
?C: available to duplicate file descriptors.
?C:.
?H:#$d_dup2 HAS_DUP2 /**/
?H:.
?LINT:set d_dup2
:
 see if dup2 exists
set dup2 d_dup2
```

```
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_dup2.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ckeypad.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_ckeypad.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_ckeypad: cat cc termlib Setvar
?MAKE: -pick add $@ %<
?S:d_ckeypad:
?S: This variable controls the definition of HAS_CURSES_KEYPAD,
?S: which tells the application that the keypad() curses function
?S: is available.
?S:.
?C:HAS_CURSES_KEYPAD:
?C: This symbol indicates the availability of the keypad() function
?C: of the curses library.
?C:.
?H:#$d_ckeypad
 HAS_CURSES_KEYPAD /**/
?H:.
?LINT:set d_ckeypad
: check for the "keypad()" function in the curses library
echo " "
case "$termlib" in
")
 echo "You don't have a curses library, so I won't waste time looking" >&4
 echo "to see if has the keypad() function." >&4
*)
echo "Checking the curses library ($termlib) for the keypad() function..." >&4
 $cat >c_keypad.c <<'EOCP'
#include <curses.h>
int main() {
 keypad(stdscr, TRUE);
```

```
 exit(0);
}
EOCP
 if $cc c_keypad.c >c_keypad.out 2>&1 ; then
  val=$define
  echo "It appears to have the keypad() function."
 else
  val=$undef
  echo "Your curses library doesn't appear to have the keypad() function."
 fi
esac
set d_ckeypad
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_ckeypad.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: perl5.U,v $
?RCS:
?RCS: Copyright (c) 2000 Andrew Dougherty
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: perl5.U,v $
?RCS:
?X:
?X: The purpose of this unit is to locate a previously installed
?X: version of perl5 suitable for running inc_version_list.U.
?X: We check for 5.005 and later because inc_version_list is
?X: irrelevant for earlier versions.
?X:
?MAKE:perl5: path_sep binexp test sed exe_ext
?MAKE: -pick add $@ %<
?Y:TOP
?S:perl5:
?S: This variable contains the full path (if any) to a previously
?S: installed perl5.005 or later suitable for running the script
?S: to determine inc_version_list.
?S:.
?T: tdir
: Find perl5.005 or later.
echo "Looking for a previously installed perl5.005 or later... "
case "$perl5" in
") for tdir in `echo "$binexp$path_sep$PATH" | $sed "s/$path_sep/
```

```
 /g"`; do
  : Check if this perl is recent and can load a simple module
  if $test -x $tdir/perl$exe_ext && $tdir/perl -Mless -e 'use 5.005;' >/dev/null 2>&1; then
   perl5=$tdir/perl
   break;
  elif $test -x $tdir/perl5$exe_ext && $tdir/perl5 -Mless -e 'use 5.005;' >/dev/null 2>&1; then
   perl5=$tdir/perl5
   break;
  fi
 done
 ;;
*) perl5="$perl5"
 ;;
esac
case "$perl5" in
") echo "None found.  That's ok.";;
*) echo "Using $perl5." ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/perl5.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extract.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  14:58:52  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:51:46  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which can be doted in order to extract
?X: .SH files with variable substitutions.
?X:
```

```
?X: When running Configure from a remote directory ($src
 is not '.'),
?X: then the files will be created in that directory, so beware!
?X:
?MAKE:Extract: Mkdirp src
?MAKE: -pick add $@ %<
?F:./extract
?T:CONFIG SRC dir file
: script used to extract .SH files with variable substitutions
cat >extract <<EOS
CONFIG=true
SRC="$src"
EOS
cat >>extract <<'EOS'
echo "Doing variable substitutions on .SH files..."
if test -f "$SRC/MANIFEST"; then
 set x `awk '{print $1}' <$SRC/MANIFEST | grep '\.SH'`
else
 echo "(Looking for .SH files under the source directory.)"
 set x `(cd "$SRC"; find . -name "*.SH" -print)`
fi
shift
case $# in
0) set x `(cd "$SRC"; echo *.SH)`; shift;;
esac
if test ! -f "$SRC/$1"; then
 shift
fi
for file in $*; do
 case "$SRC" in
 ".")
  case "$file" in
  */*)
   dir=`expr X$file : 'X\(.*\)/'`
   file=`expr X$file : 'X.*/\(.*\)'`
   (cd $dir && . ./$file)
   ;;
  *)
   . ./$file
   ;;
  esac
  ;;
 *)
?X:
?X: When running Configure remotely ($src is not '.'), we cannot source
?X: the files directly, since that would wrongly cause
 the extraction
?X: where the source lie instead of withing the current directory. Therefore,
```

```
?X: we need to 'sh <file' then, which is okay since they will source the
?X: existing config.sh file. It's not possible to use:
?X:  ../src/Configure -S -O -Dsomething
?X: unfortunately since no new config.sh with the -Dsomething override
?X: will be created before running the .SH files. A minor buglet.
?X:
?X: Note that we must create the directory hierarchy ourselves if it does
?X: not exist already, and that is done through a shell emulation of the
?X: 'mkdir -p' command. We don't want to use the $installdir metaconfig
?X: symbol here since that would require too much to be configured for
?X: this simple extraction task that may happen quickly with 'Configure -S'.
?X:  -- RAM, 18/03/96
?X:
  case "$file" in
  */*)
   dir=`expr X$file : 'X\(.*\)/'`
   file=`expr X$file : 'X.*/\(.*\)'`
   ./mkdirp $dir
   sh <"$SRC/$dir/$file"
   ;;
  *)
   sh <"$SRC/$file"
   ;;
  esac
  ;;
 esac
done
if
 test -f "$SRC/config_h.SH"; then
 if test ! -f config.h; then
?X: oops, they left it out of MANIFEST, probably, so do it anyway.
  sh <"$SRC/config_h.SH"
 fi
fi
EOS
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Extract.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_statblks.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:29  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_statblks: contains Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_statblks:
?S: This variable conditionally defines USE_STAT_BLOCKS if this system
?S: has a stat structure declaring st_blksize and st_blocks.
?S:.
?C:USE_STAT_BLOCKS (STATBLOCKS):
?C: This symbol is defined if this system has a stat structure declaring
?C: st_blksize and st_blocks.
?C:.
?H:#$d_statblks USE_STAT_BLOCKS
  /**/
?H:.
?T:xxx
?LINT:set d_statblks
: see if stat knows about block sizes
echo " "
xxx=`./findhdr sys/stat.h`
if $contains 'st_blocks;' "$xxx" >/dev/null 2>&1 ; then
 if $contains 'st_blksize;' "$xxx" >/dev/null 2>&1 ; then
  echo "Your stat() knows about block sizes." >&4
  val="$define"
 else
  echo "Your stat() doesn't know about block sizes." >&4
  val="$undef"
 fi
else
 echo "Your stat() doesn't know about block sizes." >&4
 val="$undef"
fi
set d_statblks
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_statblks.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_mmap mmaptype: Inlibc i_sysmman cat cc ccflags
?MAKE: -pick add $@ %<
?S:d_mmap:
?S: This variable conditionally defines HAS_MMAP if mmap() is
?S: available to map a file into memory.
?S:.
?S:mmaptype:
?S: This symbol contains the type of pointer returned by mmap()
?S: (and simultaneously the type of the first argument).
?S: It can be 'void *' or 'caddr_t'.
?S:.
?C:HAS_MMAP:
?C: This symbol, if defined, indicates that the mmap system call is
?C: available to map a file into memory.
?C:.
?C:Mmap_t:
?C: This symbol
 holds the return type of the mmap() system call
?C: (and simultaneously the type of the first argument).
?C: Usually set to 'void *' or 'caddr_t'.
?C:.
?H:#$d_mmap HAS_MMAP  /**/
?H:#define Mmap_t $mmaptype /**/
?H:.
?LINT:set d_mmap
: see if mmap exists
set mmap d_mmap
eval $inlibc
: see what shmat returns
: default to something harmless
mmaptype='void *'
case "$i_sysmman$d_mmap" in
"$define$define")
 $cat >mmap.c <<'END'
#include <sys/mman.h>
void *mmap();
END
 if $cc $ccflags -c mmap.c >/dev/null 2>&1; then
  mmaptype='void *'
 else
  mmaptype='caddr_t'
```

```
 fi
 echo "and it returns ($mmaptype)." >&4
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_mmap.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strerror_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_strerror_r strerror_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads extern_C
?MAKE: -pick add $@ %<
?S:d_strerror_r:
?S: This variable conditionally defines the HAS_STRERROR_R symbol,
?S: which indicates to the C program that the strerror_r()
?S: routine is available.
?S:.
?S:strerror_r_proto:
?S: This variable encodes the prototype of strerror_r.
?S: It is zero if d_strerror_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_strerror_r
?S: is defined.
?S:.
?C:HAS_STRERROR_R:
?C: This symbol, if defined, indicates that the strerror_r routine
?C: is available to strerror
 re-entrantly.
?C:.
?C:STRERROR_R_PROTO:
?C: This symbol encodes the prototype of strerror_r.
?C: It is zero if d_strerror_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_strerror_r
?C: is defined.
?C:.
?H:#$d_strerror_r HAS_STRERROR_R /**/
?H:#define STRERROR_R_PROTO $strerror_r_proto /**/
?H:.
?T:try hdrs d_strerror_r_proto
: see if strerror_r exists
```

```
set strerror_r d_strerror_r
eval $inlibc
case "$d_strerror_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h define string.h"
 case "$d_strerror_r_proto:$usethreads" in
 ":define") d_strerror_r_proto=define
  set d_strerror_r_proto strerror_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_strerror_r_proto" in
 define)
 case "$strerror_r_proto" in
 "|0) try='int strerror_r(int, char*, size_t);'
 ./protochk "$extern_C $try" $hdrs && strerror_r_proto=I_IBW ;;
 esac
 case "$strerror_r_proto" in
 "|0) try='int strerror_r(int, char*, int);'
 ./protochk "$extern_C $try" $hdrs && strerror_r_proto=I_IBI
 ;;
 esac
 case "$strerror_r_proto" in
 "|0) try='char* strerror_r(int, char*, size_t);'
 ./protochk "$extern_C $try" $hdrs && strerror_r_proto=B_IBW ;;
 esac
 case "$strerror_r_proto" in
 "|0) d_strerror_r=undef
  strerror_r_proto=0
  echo "Disabling strerror_r, cannot determine prototype." >&4 ;;
 * ) case "$strerror_r_proto" in
  REENTRANT_PROTO*) ;;
  *) strerror_r_proto="REENTRANT_PROTO_$strerror_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "strerror_r has no prototype, not using it." >&4 ;;
  esac
  d_strerror_r=undef
  strerror_r_proto=0
  ;;
 esac
 ;;
*) strerror_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_strerror_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Tye McQueen <tye@metronet.com> added safe setuid script checks.
?RCS:
?RCS: $Log: d_dosuid.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:33:03  ram
?RCS: patch61: moved unit to TOP via a ?Y: layout directive
?RCS: patch61: tell them /dev/fd is not about floppy disks
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:12:08  ram
?RCS: patch36: added checks for secure setuid scripts (Tye McQueen)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_dosuid
 d_suidsafe: cat contains ls rm test Myread Setvar \
 Oldconfig Guess package hint
?MAKE: -pick add $@ %<
?S:d_suidsafe:
?S: This variable conditionally defines SETUID_SCRIPTS_ARE_SECURE_NOW
?S: if setuid scripts can be secure.  This test looks in /dev/fd/.
?S:.
?S:d_dosuid:
?S: This variable conditionally defines the symbol DOSUID, which
?S: tells the C program that it should insert setuid emulation code
?S: on hosts which have setuid #! scripts disabled.
?S:.
?C:SETUID_SCRIPTS_ARE_SECURE_NOW:
?C: This symbol, if defined, indicates that the bug that prevents
?C: setuid scripts from being secure is not present in this kernel.
?C:.
?C:DOSUID:
?C: This symbol, if defined, indicates that the C program should
```

```
?C: check the script that it is executing for setuid/setgid bits, and
?C: attempt to emulate setuid/setgid on systems that have disabled
?C: setuid #! scripts because the kernel can't do it securely.
?C: It is up to the package designer to make sure that this emulation
?C: is done securely.
  Among other things, it should do an fstat on
?C: the script it just opened to make sure it really is a setuid/setgid
?C: script, it should make sure the arguments passed correspond exactly
?C: to the argument on the #! line, and it should not trust any
?C: subprocesses to which it must pass the filename rather than the
?C: file descriptor of the script to be executed.
?C:.
?H:#$d_suidsafe SETUID_SCRIPTS_ARE_SECURE_NOW /**/
?H:#$d_dosuid DOSUID  /**/
?H:.
?Y:TOP
?F:!reflect
?LINT: set d_suidsafe
?LINT: set d_dosuid
: see if setuid scripts can be secure
$cat <<EOM

Some kernels have a bug that prevents setuid #! scripts from being
secure.  Some sites have disabled setuid #! scripts because of this.

First let's decide if your kernel supports secure setuid #! scripts.
(If setuid #! scripts would be secure but have been disabled anyway,
don't say that they are secure if asked.)

EOM

val="$undef"
if $test -d /dev/fd; then
 echo "#!$ls" >reflect
 chmod +x,u+s reflect
 ./reflect >flect
 2>&1
 if $contains "/dev/fd" flect >/dev/null; then
  echo "Congratulations, your kernel has secure setuid scripts!" >&4
  val="$define"
 else
  $cat <<EOM
If you are not sure if they are secure, I can check but I'll need a
username and password different from the one you are using right now.
If you don't have such a username or don't want me to test, simply
enter 'none'.

EOM
```

```
  rp='Other username to test security of setuid scripts with?'
  dflt='none'
  . ./myread
  case "$ans" in
  n|none)
   case "$d_suidsafe" in
   ") echo "I'll assume setuid scripts are *not* secure." >&4
    dflt=n;;
   "$undef")
    echo "Well, the $hint value is *not* secure." >&4
    dflt=n;;
   *) echo "Well, the $hint value *is* secure." >&4
    dflt=y;;
   esac
   ;;
  *)
   $rm -f reflect flect
   echo "#!$ls" >reflect
   chmod +x,u+s reflect
   echo >flect
   chmod a+w flect
   echo '"su" will (probably) prompt you for '"$ans's password."
   su $ans -c './reflect >flect'
   if $contains "/dev/fd" flect
 >/dev/null; then
    echo "Okay, it looks like setuid scripts are secure." >&4
    dflt=y
   else
    echo "I don't think setuid scripts are secure." >&4
    dflt=n
   fi
   ;;
  esac
  rp='Does your kernel have *secure* setuid scripts?'
  . ./myread
  case "$ans" in
  [yY]*) val="$define";;
  *) val="$undef";;
  esac
 fi
else
 echo "I don't think setuid scripts are secure (no /dev/fd directory)." >&4
 echo "(That's for file descriptors, not floppy disks.)"
 val="$undef"
fi
set d_suidsafe
eval $setvar
```

```
$rm -f reflect flect

: now see if they want to do setuid emulation
echo " "
val="$undef"
case "$d_suidsafe" in
"$define")
 val="$undef"
 echo "No need to emulate SUID scripts since they are secure here." >& 4
 ;;
*)
 $cat <<EOM
Some systems have disabled setuid scripts, especially systems where
setuid scripts cannot be secure.  On systems where setuid scripts have
been disabled, the setuid/setgid bits on scripts are currently
useless.  It is possible for $package to detect those bits
 and emulate
setuid/setgid in a secure fashion.  This emulation will only work if
setuid scripts have been disabled in your kernel.

EOM
 case "$d_dosuid" in
 "$define") dflt=y ;;
 *) dflt=n ;;
 esac
 rp="Do you want to do setuid/setgid emulation?"
 . ./myread
 case "$ans" in
 [yY]*) val="$define";;
 *) val="$undef";;
 esac
 ;;
esac
set d_dosuid
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_dosuid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_newlocale d_freelocale d_uselocale d_duplocale d_querylocale i_xlocale: Inlibc Inhdr
?MAKE: -pick add $@ %<
?S:d_newlocale:
?S: This variable conditionally defines the HAS_NEWLOCALE symbol, which
```

?S: indicates to the C program that the newlocale() routine is available
?S: to return a new locale object or modify an existing locale object.
?S:.
?S:d_freelocale:
?S: This variable conditionally defines the HAS_FREELOCALE symbol, which
?S: indicates to the C program that the freelocale() routine is available
?S: to deallocates the resources associated with a locale object.
?S:.
?S:d_uselocale:
?S: This variable conditionally defines the HAS_USELOCALE symbol, which
?S: indicates to the C program that the uselocale() routine is available
?S: to set the current locale
 for the calling thread.
?S:.
?S:d_duplocale:
?S: This variable conditionally defines the HAS_DUPLOCALE symbol, which
?S: indicates to the C program that the duplocale() routine is available
?S: to duplicate a locale object.
?S:.
?S:d_querylocale:
?S: This variable conditionally defines the HAS_QUERYLOCALE symbol, which
?S: indicates to the C program that the querylocale() routine is available
?S: to return the name of the locale for a category mask.
?S:.
?S:i_xlocale:
?S: This symbol, if defined, indicates to the C program that it should
?S: include <xlocale.h> to get uselocale() and its friends
?S:.
?C:HAS_NEWLOCALE:
?C: This symbol, if defined, indicates that the newlocale routine is
?C: available to return a new locale object or modify an existing
?C: locale object.
?C:.
?C:HAS_FREELOCALE:
?C: This symbol, if defined, indicates that the freelocale routine is
?C: available to deallocates the resources associated with a locale object.
?C:.
?C:HAS_USELOCALE:
?C: This symbol, if defined,
 indicates that the uselocale routine is
?C: available to set the current locale for the calling thread.
?C:.
?C:HAS_DUPLOCALE:
?C: This symbol, if defined, indicates that the duplocale routine is
?C: available to duplicate a locale object.
?C:.
?C:HAS_QUERYLOCALE:
?C: This symbol, if defined, indicates that the querylocale routine is

```
?C: available to return the name of the locale for a category mask.
?C:.
?C:I_XLOCALE:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <xlocale.h> to get uselocale() and its friends.
?C:.
?H:#$d_newlocale HAS_NEWLOCALE /**/
?H:#$d_freelocale HAS_FREELOCALE /**/
?H:#$d_uselocale HAS_USELOCALE /**/
?H:#$d_duplocale HAS_DUPLOCALE /**/
?H:#$d_querylocale HAS_QUERYLOCALE /**/
?H:#$i_xlocale I_XLOCALE		/**/
?H:.
?LINT:set i_xlocale
?LINT:set d_newlocale
?LINT:set d_freelocale
?LINT:set d_uselocale
?LINT:set d_duplocale
?LINT:set d_querylocale
: see if this is an xlocale.h system
set xlocale.h i_xlocale
eval $inhdr

:
 see if newlocale exists
set newlocale d_newlocale
eval $inlibc

: see if freelocale exists
set freelocale d_freelocale
eval $inlibc

: see if uselocale exists
set uselocale d_uselocale
eval $inlibc

: see if duplocale exists
set duplocale d_duplocale
eval $inlibc

: see if querylocale exists
set querylocale d_querylocale
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_newlocale.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sunscanf.U,v 3.0 1993/08/18 12:09:54 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sunscanf.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:sunscanf: cat rm Compile Myread test Setvar
?MAKE: -pick add $@ %<
?S:sunscanf:
?S: This variable is set if this system runs with the Sun version
?S: of scanf.
?S:.
?C:SUNSCANF:
?C: This variable is set if this system runs with the Sun version
?C: of scanf.
?C:.
?H:#$sunscanf SUNSCANF  /**/
?H:.
?LINT:set sunscanf
?F:!scanf
: check to see what
 kinda scanf your using.
echo " "
echo "Checking to see what flavor of scanf you have..." >&4
$cat >scanf.c <<'EOCP'
int main()
{
 float value;

 sscanf("4.5","%g",&value);
 printf("%d\n", value == 4.5);
}
EOCP
set scanf
if eval $compile_ok; then
 if $test `./scanf` = 0; then
  echo "Hmm.. seems you are not running the USG flavor.."
  val="$undef"
```

```
 else
  echo "Uh... you are running the USG flavor of scanf."
  val="$define"
 fi
else
 echo "(I can't seem to compile the test program... Guessing)"
 val="$undef"
fi
set sunscanf
eval $setvar
$rm -f scanf*
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/sunscanf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Tye McQueen <tye@metronet.com>
?RCS:
?RCS: $Log: d_stdstdio.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:46:32  ram
?RCS: patch61: merged with perl5's unit
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  14:06:54  ram
?RCS: patch56: typo fix on ?C: line for FILE_bufsiz
?RCS: patch56: fixed unbalanced parenthesis (ADO)
?RCS: patch56: check whether FILE_cnt and FILE_ptr can be assigned to (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1995/05/12  12:12:11  ram
?RCS: patch54: complete rewrite by Tye McQueen
 to fit modern systems
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_stdstdio d_stdiobase stdio_ptr stdio_cnt stdio_base \
 stdio_bufsiz d_stdio_cnt_lval d_stdio_ptr_lval stdio_filbuf: cat \
 +cc +ccflags contains +ldflags +libs rm_try \
```

```
 Setvar Findhdr Oldconfig
?MAKE: -pick add $@ %<
?S:d_stdstdio:
?S: This variable conditionally defines USE_STDIO_PTR if this system
?S: has a FILE structure declaring usable _ptr and _cnt fields (or
?S: equivalent) in stdio.h.
?S:.
?S:stdio_ptr:
?S: This variable defines how, given a FILE pointer, fp, to access the
?S: _ptr field (or equivalent) of stdio.h's FILE structure.  This will
?S: be used to define the macro FILE_ptr(fp).
?S:.
?S:d_stdio_ptr_lval:
?S: This variable conditionally defines STDIO_PTR_LVALUE if the
?S: FILE_ptr macro can be used as an lvalue.
?S:.
?S:stdio_cnt:
?S: This variable defines how, given a FILE pointer, fp, to access the
?S: _cnt field (or equivalent) of
 stdio.h's FILE structure.  This will
?S: be used to define the macro FILE_cnt(fp).
?S:.
?S:d_stdio_cnt_lval:
?S: This variable conditionally defines STDIO_CNT_LVALUE if the
?S: FILE_cnt macro can be used as an lvalue.
?S:.
?S:stdio_filbuf:
?S: This variable defines how, given a FILE pointer, fp, to tell
?S: stdio to refill it's internal buffers (?).  This will
?S: be used to define the macro FILE_filbuf(fp).
?S:.
?S:d_stdiobase:
?S: This variable conditionally defines USE_STDIO_BASE if this system
?S: has a FILE structure declaring a usable _base field (or equivalent)
?S: in stdio.h.
?S:.
?S:stdio_base:
?S: This variable defines how, given a FILE pointer, fp, to access the
?S: _base field (or equivalent) of stdio.h's FILE structure.  This will
?S: be used to define the macro FILE_base(fp).
?S:.
?S:stdio_bufsiz:
?S: This variable defines how, given a FILE pointer, fp, to determine
?S: the number of bytes store in the I/O buffer pointer to by the
?S: _base field (or equivalent) of stdio.h's
 FILE structure.  This will
?S: be used to define the macro FILE_bufsiz(fp).
?S:.
```

```
?C:USE_STDIO_PTR ~ d_stdstdio (USE_STD_STDIO STDSTDIO):
?C: This symbol is defined if the _ptr and _cnt fields (or similar)
?C: of the stdio FILE structure can be used to access the stdio buffer
?C: for a file handle.  If this is defined, then the FILE_ptr(fp)
?C: and FILE_cnt(fp) macros will also be defined and should be used
?C: to access these fields.
?C:.
?C:FILE_ptr:
?C: This macro is used to access the _ptr field (or equivalent) of the
?C: FILE structure pointed to by its argument. This macro will always be
?C: defined if USE_STDIO_PTR is defined.
?C:.
?C:STDIO_PTR_LVALUE:
?C: This symbol is defined if the FILE_ptr macro can be used as an
?C: lvalue.
?C:.
?C:FILE_cnt:
?C: This macro is used to access the _cnt field (or equivalent) of the
?C: FILE structure pointed to by its argument. This macro will always be
?C: defined if USE_STDIO_PTR is defined.
?C:.
?C:STDIO_CNT_LVALUE:
?C: This symbol is defined
 if the FILE_cnt macro can be used as an
?C: lvalue.
?C:.
?C:FILE_filbuf:
?C: This macro is used to access the internal stdio _filbuf function
?C: (or equivalent), if STDIO_CNT_LVALUE and STDIO_PTR_LVALUE
?C: are defined.  It is typically either _filbuf or __filbuf.
?C: This macro will only be defined if both STDIO_CNT_LVALUE and
?C: STDIO_PTR_LVALUE are defined.
?C:.
?H:?d_stdstdio:#$d_stdstdio USE_STDIO_PTR  /**/
?H:?d_stdstdio:#ifdef USE_STDIO_PTR
?H:#define FILE_ptr(fp) $stdio_ptr
?H:#$d_stdio_ptr_lval STDIO_PTR_LVALUE   /**/
?H:#define FILE_cnt(fp) $stdio_cnt
?H:#$d_stdio_cnt_lval STDIO_CNT_LVALUE   /**/
?H:?d_stdstdio:#if defined(STDIO_PTR_LVALUE) && defined(STDIO_CNT_LVALUE)
?H:#define FILE_filbuf(fp) $stdio_filbuf   /**/
?H:?d_stdstdio:#endif
?H:?d_stdstdio:#endif
?H:.
?W:d_stdstdio:FILE_ptr FILE_cnt FILE_filbuf
?C:USE_STDIO_BASE ~ d_stdiobase:
?C: This symbol is defined if the _base field (or similar) of the
?C: stdio FILE structure can be used to access the stdio buffer
```

```
 for
?C: a file handle.  If this is defined, then the FILE_base(fp) macro
?C: will also be defined and should be used to access this field.
?C: Also, the FILE_bufsiz(fp) macro will be defined and should be used
?C: to determine the number of bytes in the buffer.  USE_STDIO_BASE
?C: will never be defined unless USE_STDIO_PTR is.
?C:.
?C:FILE_base:
?C: This macro is used to access the _base field (or equivalent) of the
?C: FILE structure pointed to by its argument. This macro will always be
?C: defined if USE_STDIO_BASE is defined.
?C:.
?C:FILE_bufsiz:
?C: This macro is used to determine the number of bytes in the I/O
?C: buffer pointed to by _base field (or equivalent) of the FILE
?C: structure pointed to its argument. This macro will always be defined
?C: if USE_STDIO_BASE is defined.
?C:.
?H:?d_stdiobase:#$d_stdiobase USE_STDIO_BASE  /**/
?H:?d_stdiobase:#ifdef USE_STDIO_BASE
?H:#define FILE_base(fp) $stdio_base
?H:#define FILE_bufsiz(fp) $stdio_bufsiz
?H:?d_stdiobase:#endif
?H:.
?W:d_stdiobase:FILE_base
 FILE_bufsiz
?LINT:set d_stdstdio d_stdiobase
?T:ptr_lval cnt_lval filbuf xxx
?F:!try
: see if _ptr and _cnt from stdio act std
echo " "
if $contains '_IO_fpos_t' `./findhdr stdio.h` >/dev/null 2>&1 ; then
 echo "(Looks like you have stdio.h from Linux.)"
 case "$stdio_ptr" in
 ") stdio_ptr='((fp)->_IO_read_ptr)'
  ptr_lval=$define
  ;;
 *) ptr_lval=$d_stdio_ptr_lval;;
 esac
 case "$stdio_cnt" in
 ") stdio_cnt='((fp)->_IO_read_end - (fp)->_IO_read_ptr)'
  cnt_lval=$undef
  ;;
 *) cnt_lval=$d_stdio_cnt_lval;;
 esac
 case "$stdio_base" in
 ") stdio_base='((fp)->_IO_read_base)';;
 esac
```

```
 case "$stdio_bufsiz" in
 ") stdio_bufsiz='((fp)->_IO_read_end - (fp)->_IO_read_base)';;
 esac
else
 case "$stdio_ptr" in
 ") stdio_ptr='((fp)->_ptr)'
  ptr_lval=$define
  ;;
 *) ptr_lval=$d_stdio_ptr_lval;;
 esac
 case "$stdio_cnt" in
 ") stdio_cnt='((fp)->_cnt)'
  cnt_lval=$define
  ;;
 *) cnt_lval=$d_stdio_cnt_lval;;
 esac
 case "$stdio_base" in
 ") stdio_base='((fp)->_base)';;
 esac
 case
 "$stdio_bufsiz" in
 ") stdio_bufsiz='((fp)->_cnt + (fp)->_ptr - (fp)->_base)';;
 esac
fi
: test whether _ptr and _cnt really work
echo "Checking how std your stdio is..." >&4
$cat >try.c <<EOP
#include <stdio.h>
#define FILE_ptr(fp) $stdio_ptr
#define FILE_cnt(fp) $stdio_cnt
int main() {
 FILE *fp = fopen("try.c", "r");
 char c = getc(fp);
 if (
  18 <= FILE_cnt(fp) &&
  strncmp(FILE_ptr(fp), "include <stdio.h>\n", 18) == 0
 )
  exit(0);
 exit(1);
}
EOP
val="$undef"
if $cc $ccflags $ldflags -o try try.c $libs >/dev/null 2>&1; then
 if ./try; then
  echo "Your stdio acts pretty std."
  val="$define"
 else
  echo "Your stdio isn't very std."
```

```
 fi
else
 echo "Your stdio doesn't appear very std."
fi
$rm_try
set d_stdstdio
eval $setvar

@if STDIO_PTR_LVALUE || d_stdio_ptr_lval
: Can _ptr be used as an lvalue?
?X: Only makes sense if we have a known stdio implementation.
case "$d_stdstdio$ptr_lval" in
$define$define) val=$define ;;
*) val=$undef ;;
esac
set d_stdio_ptr_lval
eval
 $setvar

@end
@if STDIO_CNT_LVALUE || d_stdio_cnt_lval
: Can _cnt be used as an lvalue?
?X: Only makes sense if we have a known stdio implementation.
case "$d_stdstdio$cnt_lval" in
$define$define) val=$define ;;
*) val=$undef ;;
esac
set d_stdio_cnt_lval
eval $setvar

@end
@if FILE_filbuf
: How to access the stdio _filbuf or __filbuf function.
: If this fails, check how the getc macro in stdio.h works.
case "${d_stdio_ptr_lval}${d_stdio_cnt_lval}" in
${define}${define})
 : Try hint value, if any, then _filbuf, __filbuf, _fill, then punt.
 : _fill is for OS/2.
 xxx='notok'
 for filbuf in $stdio_filbuf '_filbuf(fp)' '__filbuf(fp) ' '_fill(fp)' ; do
  $cat >try.c <<EOP
#include <stdio.h>
#define FILE_ptr(fp) $stdio_ptr
#define FILE_cnt(fp) $stdio_cnt
#define FILE_filbuf(fp) $filbuf
int main() {
 FILE *fp = fopen("try.c", "r");
 int c;
```

```
 c = getc(fp);
 c = FILE_filbuf(fp);  /* Just looking for linker errors.*/
 exit(0);
}
EOP
  if $cc $ccflags $ldflags -o try try.c $libs >/dev/null 2>&1 &&
 ./try; then
   echo "Your stdio appears to use $filbuf"
   stdio_filbuf="$filbuf"
   xxx='ok'
   break
  else
   echo "Hmm.  $filbuf doesn't seem to work."
  fi
  $rm_try
 done
 case "$xxx" in
 notok) echo "I can't figure out how to access _filbuf"
   echo "I'll just have to work around it."
   d_stdio_ptr_lval="$undef"
   d_stdio_cnt_lval="$undef"
   ;;
 esac
 ;;
esac
@end
@if d_stdiobase || USE_STDIO_BASE || FILE_base || FILE_bufsiz
: see if _base is also standard
val="$undef"
case "$d_stdstdio" in
$define)
 $cat >try.c <<EOP
#include <stdio.h>
#define FILE_base(fp) $stdio_base
#define FILE_bufsiz(fp) $stdio_bufsiz
int main() {
 FILE *fp = fopen("try.c", "r");
 char c = getc(fp);
 if (
  19 <= FILE_bufsiz(fp) &&
  strncmp(FILE_base(fp), "#include <stdio.h>\n", 19) == 0
 )
  exit(0);
 exit(1);
}
EOP
 if $cc $ccflags $ldflags -o try try.c $libs > /dev/null 2>&1; then
  if ./try; then
```

```
   echo "And its _base field acts std."
   val="$define"
  else
   echo "But its _base field isn't std."
  fi
 else
  echo
 "However, it seems to be lacking the _base field."
 fi
 $rm_try
 ;;
esac
set d_stdiobase
eval $setvar

@end
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_stdstdio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_malloc.U,v 3.5 2008/03/29 14:06:51 merijn Exp $
?RCS:
?RCS: Copyright (c) 2008, H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.5.
?RCS:
?MAKE:i_mallocmalloc: Inhdr
?MAKE: -pick add $@ %<
?S:i_mallocmalloc:
?S: This variable conditionally defines the I_MALLOCMALLOC symbol,
?S: and indicates whether a C program should include <malloc/malloc.h>.
?S:.
?C:I_MALLOCMALLOC:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <malloc/malloc.h>.
?C:.
?H:#$i_mallocmalloc I_MALLOCMALLOC  /**/
?H:.
?LINT:set i_mallocmalloc
: see if malloc/malloc.h has to be included
set malloc/malloc.h i_mallocmalloc
eval
```

```
 $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_mallocmalloc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_memrchr: Inlibc Hasproto d_gnulibc
?MAKE: -pick add $@ %<
?S:d_memrchr:
?S: This variable conditionally defines the HAS_MEMRCHR symbol, which
?S: indicates to the C program that the memrchr() routine is available
?S: to return a pointer to the last occurrence of a byte in a memory
?S: area (or NULL if not found).
?S:.
?C:HAS_MEMRCHR:
?C: This symbol, if defined, indicates that the memrchr routine is
?C: available to return a pointer to the last occurrence of a byte in
?C: a memory area (or NULL if not found).
?C:.
?H:#$d_memrchr HAS_MEMRCHR  /**/
?H:.
?T:d_memrchr_proto xx1 xx2 xx3 xx4
?LINT:set d_memrchr
: see if memrchr exists
: We need both a prototype in string.h and the symbol in libc.
echo " "
d_memrchr_proto="
xx1="#$d_gnulibc HAS_GNULIBC"
xx2='#if defined(HAS_GNULIBC)
 && !defined(_GNU_SOURCE)'
xx3='#   define _GNU_SOURCE'
xx4='#endif'
set d_memrchr_proto memrchr literal "$xx1" literal "$xx2" literal "$xx3" literal "$xx4" define string.h
eval $hasproto
case "$d_memrchr_proto" in
   define) # see if memrchr exists
 set memrchr d_memrchr
 eval $inlibc
 ;;
   *)  val=$undef
 set d_memrchr
 eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_memrchr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getlogin_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getlogin_r getlogin_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_unistd extern_C
?MAKE: -pick add $@ %<
?S:d_getlogin_r:
?S: This variable conditionally defines the HAS_GETLOGIN_R symbol,
?S: which indicates to the C program that the getlogin_r()
?S: routine is available.
?S:.
?S:getlogin_r_proto:
?S: This variable encodes the prototype of getlogin_r.
?S: It is zero if d_getlogin_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getlogin_r
?S: is defined.
?S:.
?C:HAS_GETLOGIN_R:
?C: This symbol, if defined, indicates that the getlogin_r routine
?C: is available
 to getlogin re-entrantly.
?C:.
?C:GETLOGIN_R_PROTO:
?C: This symbol encodes the prototype of getlogin_r.
?C: It is zero if d_getlogin_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getlogin_r
?C: is defined.
?C:.
?H:#$d_getlogin_r HAS_GETLOGIN_R /**/
?H:#define GETLOGIN_R_PROTO $getlogin_r_proto /**/
?H:.
?T:try hdrs d_getlogin_r_proto
: see if getlogin_r exists
set getlogin_r d_getlogin_r
eval $inlibc
case "$d_getlogin_r" in
"$define")
```

```
hdrs="$i_systypes sys/types.h define stdio.h $i_unistd unistd.h"
case "$d_getlogin_r_proto:$usethreads" in
":define") d_getlogin_r_proto=define
 set d_getlogin_r_proto getlogin_r $hdrs
 eval $hasproto ;;
*) ;;
esac
case "$d_getlogin_r_proto" in
define)
case "$getlogin_r_proto" in
"|0) try='int getlogin_r(char*, size_t);'
./protochk "$extern_C $try" $hdrs && getlogin_r_proto=I_BW ;;
esac
case "$getlogin_r_proto" in
"|0) try='int getlogin_r(char*, int);'
./protochk "$extern_C $try" $hdrs && getlogin_r_proto=I_BI
;;
esac
case "$getlogin_r_proto" in
"|0) try='char* getlogin_r(char*, size_t);'
./protochk "$extern_C $try" $hdrs && getlogin_r_proto=B_BW ;;
esac
case "$getlogin_r_proto" in
"|0) try='char* getlogin_r(char*, int);'
./protochk "$extern_C $try" $hdrs && getlogin_r_proto=B_BI ;;
esac
case "$getlogin_r_proto" in
"|0) d_getlogin_r=undef
 getlogin_r_proto=0
 echo "Disabling getlogin_r, cannot determine prototype." >&4 ;;
* ) case "$getlogin_r_proto" in
 REENTRANT_PROTO*) ;;
 *) getlogin_r_proto="REENTRANT_PROTO_$getlogin_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "getlogin_r has no prototype, not using it." >&4 ;;
 esac
 d_getlogin_r=undef
 getlogin_r_proto=0
 ;;
esac
;;
*) getlogin_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getlogin_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_scannl.U,v 3.0.1.2 1997/02/28 15:41:27 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_scannl.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:41:27  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  13:59:12  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:00  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Does the scanf routine read "\n" correctly ? This is was not
?X: the case on AIX...
?X:
?MAKE:d_scannl: cat rm Setvar Compile run
?MAKE: -pick
 add $@ %<
?S:d_scannl:
?S: This variable conditionally defines SCAN_NL, which indicates
?S: whether the C library routines scanf() and friends can deal with
?S: a '\n' in the input correctly. They do most of the time.
?S:.
?C:SCAN_NL:
?C: This symbol is defined if the C library routines scanf() and friends
?C: can deal with a '\n' in the input correctly, so that you can say
?C: scanf("%d\n"); instead of scanf("%d"); getc(c); to handle the '\n'.
?C:.
?H:#$d_scannl SCAN_NL  /* scanf("%d\n") works */
?H:.
?F:!try
?LINT:set d_scannl
: does scanf handle "\n" correctly ?
```

```
echo " "
val="$define"
?X: I really want to say "\n" instead of '\n', because I am referring
?X: to the string given as argument to scanf().
echo 'Let""""s see if scanf() handles "\\n" correctly...' >&4
$cat >try.c <<'EOCP'
int main()
{
 int i = 0, j = 0;
 scanf("%d\n%d", &i, &j);
 if (j != 3)
  exit(1);
 exit(0);
}
EOCP
set try
if eval $compile_ok; then
 if $run ./try <<'EOD'
2
3
EOD
 then
  echo "Yes, it does."
 else
  echo
 "No, it doesn't."
  val="$undef"
 fi
else
 echo "(I can't seem to compile the test program. Assuming it does.)"
fi
set d_scannl
eval $setvar
$rm -f try.* try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_scannl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_semop.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_semop.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_semop: Inlibc
?MAKE: -pick add $@ %<
?S:d_semop:
?S: This variable conditionally defines the HAS_SEMOP symbol, which
?S: indicates to the C program that the semop() routine is available.
?S:.
?C:HAS_SEMOP:
?C: This symbol, if defined, indicates that the semop() routine is
?C: available to execute semaphore operations.
?C:.
?H:#$d_semop
 HAS_SEMOP  /**/
?H:.
?LINT:set d_semop
: see if semop exists
set semop d_semop
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_semop.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?MAKE:usesocks: Myread Oldconfig Setvar spackage package
?MAKE: -pick add $@ %<
?Y:TOP
?S:usesocks:
?S: This variable conditionally defines the USE_SOCKS symbol,
?S: and indicates that Perl should be built to use SOCKS.
?S:.
```

```
?C:USE_SOCKS:
?C: This symbol, if defined, indicates that Perl should
?C: be built to use socks.
?C:.
?H:?%<:#$usesocks USE_SOCKS  /**/
?H:.
?D:usesocks="
?LINT:set usesocks
: check for requested SOCKS support
case "$usesocks" in
$define|true|[yY]*) dflt='y';;
*)
 dflt='n';;
esac
cat <<EOM

$spackage can be built to use the SOCKS proxy protocol library.
If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp="Build $package for SOCKS?"
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*)     val="$undef" ;;
esac
set usesocks
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/usesocks.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_frexpl: Inlibc
?MAKE: -pick add $@ %<
?S:d_frexpl:
?S: This variable conditionally defines the HAS_FREXPL symbol, which
?S: indicates to the C program that the frexpl() routine is available.
?S:.
?C:HAS_FREXPL:
?C: This symbol, if defined, indicates that the frexpl routine is
```

```
?C: available to break a long double floating-point number into
?C: a normalized fraction and an integral power of 2.
?C:.
?H:#$d_frexpl HAS_FREXPL  /**/
?H:.
?LINT:set d_frexpl
: see if frexpl exists
set frexpl d_frexpl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_frexpl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_keepsig.U,v $
?RCS: Revision 3.0.1.4  1995/07/25  13:57:56  ram
?RCS: patch56: made cc and ccflags optional dependencies
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:26:25  ram
?RCS: patch45: protected "sh -c" within backquotes for Linux and SGI
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:13:59  ram
?RCS: patch36: call ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.1  1993/10/16  13:48:47  ram
?RCS: patch12: comment for SIGNALS_KEPT was the other way round
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:06:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_keepsig: cat Compile rm Guess contains echo n c Setvar run
?MAKE: -pick add $@ %<
?S:d_keepsig:
?S: This variable contains the eventual value of the SIGNALS_KEPT symbol,
?S: which indicates to the C program if signal handlers need not reinstated
?S: after receipt of a signal.
```

```
?S:.
?C:SIGNALS_KEPT (PERSISTENT_SIGNAL):
?C: This symbol is defined if signal handlers needn't be reinstated after
?C: receipt of a signal.
?C:.
?H:#$d_keepsig SIGNALS_KEPT /**/
?H:.
?F:!try !try.out
?LINT:set d_keepsig
: see if signals are kept
val="$undef";
echo " "
echo "Checking to see if signal handlers stick around..." >&4
$cat >try.c <<'EOCP'
foo() {}

int main()
{
 signal(2, foo);
 kill(getpid(), 2);
 kill(getpid(), 2);
 printf("abc\n");
}
EOCP
set try
if eval $compile; then
?X: On AIX a single ./try will not work (with ksh)
?X: Backquotes required on Linux and SGI (prevents "ambiguous output redirect")
?X:
 (reported by Xavier LeVourch <xavierl@eiffel.com>)
 echo `sh -c $run ./try >try.out 2>/dev/null` >/dev/null
 if $contains abc try.out >/dev/null 2>&1; then
  echo "Yes, they do."
  val="$define";
 else
  echo "No, they don't."
 fi
else
 $echo $n "(I can't seem to compile the test program. Assuming $c"
 if ./bsd; then
  echo "they do.)"
  val="$define"
 else
  echo "they don't.)"
 fi
fi
set d_keepsig
eval $setvar
```

```
$rm -f try*
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_keepsig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_logb: Inlibc
?MAKE: -pick add $@ %<
?S:d_logb:
?S: This variable conditionally defines the HAS_LOGB symbol, which
?S: indicates to the C program that the logb() routine is available
?S: to extract the exponent of x.
?S:.
?C:HAS_LOGB:
?C: This symbol, if defined, indicates that the logb routine is
?C: available to do the logb function.
?C:.
?H:#$d_logb HAS_LOGB  /**/
?H:.
?LINT:set d_logb
: see if logb exists
set logb d_logb
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_logb.U
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```
?RCS: $Id$
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fp_class: Inlibc
?MAKE: -pick add $@ %<
?S:d_fp_class:
?S: This variable conditionally defines the HAS_FP_CLASS symbol, which
?S: indicates to the C program that the fp_class() routine is available.
?S:.
?C:HAS_FP_CLASS:
?C: This symbol, if defined, indicates that the fp_class routine is
```

```
?C: available to classify doubles.  Available for example in Digital UNIX.
?C: The returned values are defined in <math.h> and are:
?C:
?C: FP_SNAN           Signaling NaN (Not-a-Number)
?C: FP_QNAN           Quiet NaN (Not-a-Number)
?C: FP_POS_INF        +infinity
?C: FP_NEG_INF        -infinity
?C: FP_POS_NORM       Positive normalized
?C: FP_NEG_NORM       Negative normalized
?C: FP_POS_DENORM     Positive denormalized
?C: FP_NEG_DENORM
    Negative denormalized
?C: FP_POS_ZERO       +0.0 (positive zero)
?C: FP_NEG_ZERO       -0.0 (negative zero)
?C:.
?H:#$d_fp_class HAS_FP_CLASS  /**/
?H:.
?LINT:set d_fp_class
: see if fp_class exists
set fp_class d_fp_class
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fp_class.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2015 Jarkko Hietaniemi, H.Merijn Brand
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?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:longdblmantbits doublemantbits nvmantbits: Inlibc cat Compile run \
 rm_try Setvar echo i_sunmath usequadmath \
 d_longdbl longdblkind nvsize doublesize longdblsize
?MAKE: -pick add $@ %<
?S:doublemantbits:
?S: This symbol, if defined, tells how many mantissa bits
?S: there are in double precision floating point format.
?S: Note that this is usually DBL_MANT_DIG minus one, since
?S: with the standard IEEE 754 formats DBL_MANT_DIG includes
?S: the implicit bit which doesn't really exist.
?S:.
?S:longdblmantbits:
?S: This symbol, if defined, tells how many mantissa bits
?S: there are in long double precision floating point format.
```

```
?S: Note that this can be LDBL_MANT_DIG minus one,
?S: since
 LDBL_MANT_DIG can include the IEEE 754 implicit bit.
?S: The common x86-style 80-bit long double does not have
?S: an implicit bit.
?S:.
?S:nvmantbits:
?S: This variable tells how many bits the mantissa of a Perl NV has,
?S: not including the possible implicit bit.
?S:.
?C:DOUBLEMANTBITS:
?C: This symbol, if defined, tells how many mantissa bits
?C: there are in double precision floating point format.
?C: Note that this is usually DBL_MANT_DIG minus one, since
?C: with the standard IEEE 754 formats DBL_MANT_DIG includes
?C: the implicit bit, which doesn't really exist.
?C:.
?C:LONGDBLMANTBITS:
?C: This symbol, if defined, tells how many mantissa bits
?C: there are in long double precision floating point format.
?C: Note that this can be LDBL_MANT_DIG minus one,
?C: since LDBL_MANT_DIG can include the IEEE 754 implicit bit.
?C: The common x86-style 80-bit long double does not have
?C: an implicit bit.
?C:.
?C:NVMANTBITS:
?C: This symbol, if defined, tells how many mantissa bits
?C: (not
 including implicit bit) there are in a Perl NV.
?C: This depends on which floating point type was chosen.
?C:.
?H:#define DOUBLEMANTBITS  $doublemantbits
?H:#define LONGDBLMANTBITS $longdblmantbits
?H:#define NVMANTBITS      $nvmantbits
?H:.
?F:!try
: Check the length of the double mantissa
$echo "Checking how many mantissa bits your doubles have..." >&4
$cat >try.c <<EOP
#$i_sunmath I_SUNMATH
#include <float.h>
#ifdef I_SUNMATH
# include <sunmath.h>
#endif
#ifdef DBL_MANT_DIG
# define BITS (DBL_MANT_DIG - 1) /* the implicit bit does not count */
#endif
#include <stdio.h>
```

```
int main(int argc, char *argv[]) {
#ifdef BITS
 printf("%d\n", BITS);
#endif
 return 0;
}
EOP
set try
if eval $compile; then
   doublemantbits=`$run ./try`
else
   doublemantbits="$undef"
fi
$rm_try

: Check the length of the longdouble mantissa
$echo "Checking how many mantissa bits your long doubles have..." >&4
$cat >try.c <<EOP
#$i_sunmath I_SUNMATH
#include <float.h>
#ifdef I_SUNMATH
# include <sunmath.h>
#endif
#$d_longdbl
 HAS_LONG_DOUBLE
#if defined(HAS_LONG_DOUBLE) && defined(LDBL_MANT_DIG)
# if ($longdblkind == 3) || ($longdblkind == 4) /* 80-bit extended precision */
/* This format has no implicit bit.  Beware, however, that for
* this format the bare LDBL_MANT_DIG is misleading for inf/nan:
* the top three bits are used for inf (100) / qnan (11x) / snan (101),
* and the top bit must have been one since 387, zero is plain invalid.
* For normal fp values, the LDBL_MANT_DIG is fine, though. */
#  define BITS LDBL_MANT_DIG
# elif ($longdblkind == 5 || $longdblkind == 6 || $longdblkind == 7 || $longdblkind == 8) /* double double */
/* LDBL_MANT_DIG of 106 (twice 53) would be logical, but for some
* reason e.g. Irix thinks 107.  But in any case, we want only
* the number of real bits, the implicit bits are of no interest.  */
#  define BITS 2 * (DBL_MANT_DIG - 1)
# else
#  define BITS (LDBL_MANT_DIG - 1) /* the implicit bit does not count */
# endif
#endif
#include <stdio.h>
int
 main(int argc, char *argv[]) {
#ifdef BITS
 printf("%d\n", BITS);
#endif
```

```
 return 0;
}
EOP
set try
if eval $compile; then
   longdblmantbits=`$run ./try`
else
   longdblmantbits="$undef"
fi
$rm_try

: Check the length of the NV mantissa
$echo "Checking how many mantissa bits your NVs have..." >&4
if test "X$usequadmath" = "X$define"; then
 nvmantbits=112 # 128-1-15
else
 if test "X$nvsize" = "X$doublesize"; then
   nvmantbits="$doublemantbits"
 else
    if test "X$nvsize" = "X$longdblsize"; then
      nvmantbits="$longdblmantbits"
    else
      nvmantbits="$undef"
    fi
 fi
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/mantbits.U
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```
?RCS: $Id: orderlib.U,v 3.0.1.4 1997/02/28 16:18:18 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: orderlib.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  16:18:18  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: likewise for .o replaced by $_o
?RCS: patch61: now uses the ar located by Loc.U
?RCS:
```

```
?RCS: Revision 3.0.1.3  1995/01/11  15:33:04  ram
?RCS: patch45: allows hint files to specify their own value for 'ranlib'
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:26:48  ram
?RCS: patch36: now performs a real small compile for accurate
 checks (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:31:17  ram
?RCS: patch32: use cc variable instead of hardwired 'cc' in 1st compile
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:orderlib ranlib: Loc ar cat test rm +cc +ccflags +ldflags +libs i_stdlib _a _o run
?MAKE: -pick add $@ %<
?S:orderlib:
?S: This variable is "true" if the components of libraries must be ordered
?S: (with `lorder $* | tsort`) before placing them in an archive.  Set to
?S: "false" if ranlib or ar can generate random libraries.
?S:.
?S:ranlib:
?S: This variable is set to the pathname of the ranlib program, if it is
?S: needed to generate random libraries.  Set to ":" if ar can generate
?S: random libraries or if random libraries are not supported
?S:.
?F:!foobar
: see if ar generates random libraries by itself
echo " "
echo "Checking how to generate random libraries on your machine..." >&4
?X: Some systems (like MIPS) complain when running
 ar... Others like Ultrix
?X: need an explicit 'ar ts' to add the table of contents.
?X: Still others like Linux run ar ts successfully, but still need ranlib.
?X: This set of tests seems the minimum necessary to check out Linux.
?X: We need to explicitly put the entries in out-of-order so that Sun's ld
?X: will fail.  (Otherwise it complains, but gives an exit status of 0.)
echo 'int bar1() { return bar2(); }' > bar1.c
echo 'int bar2() { return 2; }' > bar2.c
$cat > foo.c <<EOP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() { printf("%d\n", bar1()); exit(0); }
EOP
$cc $ccflags -c bar1.c >/dev/null 2>&1
$cc $ccflags -c bar2.c >/dev/null 2>&1
$cc $ccflags -c foo.c >/dev/null 2>&1
```

```
$ar rc bar$_a bar2$_o bar1$_o >/dev/null 2>&1
if $cc -o foobar $ccflags $ldflags foo$_o bar$_a $libs > /dev/null 2>&1 &&
 $run ./foobar >/dev/null 2>&1; then
 echo "$ar appears to generate random libraries itself."
 orderlib=false
 if [ "X$ranlib" = "X" ]; then
     ranlib=":"
 fi
elif
 $ar s bar$_a >/dev/null 2>&1 &&
 $cc -o foobar $ccflags $ldflags foo$_o bar$_a $libs > /dev/null 2>&1 &&
 $run ./foobar >/dev/null 2>&1; then
  echo "a table of contents needs to be added with '$ar s'."
  orderlib=false
  ranlib="$ar s"
elif $ar ts bar$_a >/dev/null 2>&1 &&
 $cc -o foobar $ccflags $ldflags foo$_o bar$_a $libs > /dev/null 2>&1 &&
 $run ./foobar >/dev/null 2>&1; then
  echo "a table of contents needs to be added with '$ar ts'."
  orderlib=false
  ranlib="$ar ts"
else
?X: Allow hints to specify their own ranlib "script". For instance, on
?X: some NeXT machines, the timestamp put by ranlib is not correct, and this
?X: may raise tedious recompiles for nothing. Therefore, NeXT may add the
?X: ranlib='sleep 5; /bin/ranlib' line in their hints to "fix" that.
?X: (reported by Andreas Koenig <k@franz.ww.tu-berlin.de>)
 case "$ranlib" in
 :) ranlib=";;
 ")
  ranlib=`./loc ranlib X /usr/bin /bin /usr/local/bin`
  $test -f $ranlib || ranlib="
  ;;
 esac
 if $test -n "$ranlib";
 then
  echo "your system has '$ranlib'; we'll use that."
  orderlib=false
 else
  echo "your system doesn't seem to support random libraries"
  echo "so we'll use lorder and tsort to order the libraries."
  orderlib=true
  ranlib=":"
 fi
fi
$rm -f foo* bar*
```

Found in path(s):

* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/orderlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sanemcmp.U,v 3.0.1.1 1997/02/28 15:41:19 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_sanemcmp.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:41:19  ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_sanemcmp: Compile cat d_memcmp rm_try run \
 i_memory i_stdlib i_string i_unistd Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_sanemcmp:
?S: This variable conditionally defines the HAS_SANE_MEMCMP symbol if
?S: the memcpy() routine is available and can be used to compare relative
?S: magnitudes of chars with their high bits set.
?S:.
?C:HAS_SANE_MEMCMP:
?C: This
 symbol, if defined, indicates that the memcmp routine is available
?C: and can be used to compare relative magnitudes of chars with their high
?C: bits set.  If it is not defined, roll your own version.
?C:.
?H:#$d_sanemcmp HAS_SANE_MEMCMP /**/
?H:.
?F:!try
?LINT: set d_sanemcmp
: can memcmp be trusted to compare relative magnitude?
?X: assume the worst
val="$undef"
case "$d_memcmp" in
"$define")
 echo " "
 echo "Checking if your memcmp() can compare relative magnitude..." >&4
 $cat >try.c <<EOCP
#$i_memory I_MEMORY
#$i_stdlib I_STDLIB
#$i_string I_STRING
```

```
#$i_unistd I_UNISTD
EOCP
 $cat >>try.c <<'EOCP'
#include <stdio.h>
#ifdef I_MEMORY
#  include <memory.h>
#endif
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#ifdef I_STRING
#  include <string.h>
#else
#  include <strings.h>
#endif
#ifdef I_UNISTD
#  include <unistd.h>  /* Needed for NetBSD */
#endif
int main()
{
char a = -1;
char b = 0;
if ((a < b) && memcmp(&a, &b, 1) < 0)
 exit(1);
exit(0);
}
EOCP
 set try
 if eval
 $compile_ok; then
  if $run ./try 2>/dev/null; then
   echo "Yes, it can."
   val="$define"
  else
   echo "No, it can't (it uses signed chars)."
  fi
 else
  echo "(I can't compile the test program, so we'll assume not...)"
 fi
 ;;
esac
$rm_try
set d_sanemcmp
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_sanemcmp.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_ustat: Inlibc
?MAKE: -pick add $@ %<
?S:d_ustat:
?S: This variable conditionally defines HAS_USTAT if ustat() is
?S: available to query file system statistics by dev_t.
?S:.
?C:HAS_USTAT:
?C: This symbol, if defined, indicates that the ustat system call is
?C: available to query file system statistics by dev_t.
?C:.
?H:#$d_ustat HAS_USTAT  /**/
?H:.
?LINT:set d_ustat
: see if ustat exists
set ustat d_ustat
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_ustat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pwrite.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_pwrite.U,v $
?RCS:
?MAKE:d_pwrite: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_pwrite:
?S: This variable conditionally defines the HAS_PWRITE symbol, which
?S: indicates to the C program that the pwrite() routine is available.
?S:.
?C:HAS_PWRITE :
?C: This symbol, if defined, indicates that the pwrite routine is
?C: available to perform writes on a file descriptor at a given offset.
?C:.
?H:#$d_pwrite HAS_PWRITE  /**/
?H:.
?LINT:set d_pwrite
: see if pwrite
 exists
set pwrite d_pwrite
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_pwrite.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: scriptdir.U,v 3.1 1999/07/09 18:20:13 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: scriptdir.U,v $
?RCS: Revision 3.1  1999/07/09 18:20:13  doughera
?RCS: Updated for installprefix
?RCS:
?RCS: Revision 3.0.1.3  1995/09/25  09:17:15  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:46:13  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:32:04  ram
?RCS: patch32: now uses installation prefix
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:09:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:scriptdir scriptdirexp installscript: cat test Getfile Loc \
 Oldconfig +bin Prefixit Setprefixvar prefixexp Prefixup
?MAKE: -pick add $@ %<
?Y:TOP
?D:scriptdir=''
?S:scriptdir:
?S: This variable holds the name of the directory in which the user wants
?S: to put publicly scripts for the package in question.  It is either
?S: the same directory as for binaries, or a special one that can be
?S: mounted across different architectures, like /usr/share. Programs
?S: must be prepared to deal with ~name expansion.
?S:.
?D:scriptdirexp=''
?S:scriptdirexp:
?S: This variable is the same as scriptdir, but is filename expanded
?S: at configuration time, for programs not wanting to bother with it.
?S:.
?S:installscript:
?S: This variable is usually the same as scriptdirexp, unless you are on
?S: a system running AFS, in which case they may differ slightly. You
?S: should always use this variable
 within your makefiles for portability.
?S:.
?C:SCRIPTDIR:
?C: This symbol holds the name of the directory in which the user wants
?C: to put publicly executable scripts for the package in question.  It
?C: is often a directory that is mounted across diverse architectures.
?C: Programs must be prepared to deal with ~name expansion.
?C:.
?C:SCRIPTDIR_EXP:
?C: This is the same as SCRIPTDIR, but is filename expanded at
?C: configuration time, for use in programs not prepared to do
?C: ~name substitutions at run-time.
?C:.
?H:#define SCRIPTDIR "$scriptdir" /**/
?H:#define SCRIPTDIR_EXP "$scriptdirexp" /**/
?H:.
?T:installscriptdir
?LINT:change prefixvar
?LINT:set scriptdir
?LINT:set scriptdirexp
: determine where public executable scripts go
set scriptdir scriptdir
eval $prefixit
case "$scriptdir" in
'')
 dflt="$bin"
 : guess some guesses
```

```
 $test -d /usr/share/scripts && dflt=/usr/share/scripts
 $test -d /usr/share/bin     && dflt=/usr/share/bin
 $test -d /usr/local/script  && dflt=/usr/local/script
 $test
 -d /usr/local/scripts && dflt=/usr/local/scripts
 $test -d $prefixexp/script  && dflt=$prefixexp/script
 set dflt
 eval $prefixup
 ;;
*)  dflt="$scriptdir"
 ;;
esac
$cat <<EOM

Some installations have a separate directory just for executable scripts so
that they can mount it across multiple architectures but keep the scripts in
one spot.  You might, for example, have a subdirectory of /usr/share for this.
Or you might just lump your scripts in with all your other executables.

EOM
fn=d~
rp='Where do you keep publicly executable scripts?'
. ./getfile
if $test "X$ansexp" != "X$scriptdirexp"; then
 installscript=''
fi
installscriptdir=''
prefixvar=scriptdir
. ./setprefixvar
: A little fix up for an irregularly named variable.
installscript="$installscriptdir"
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/scriptdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msg.U,v $
```

```
?RCS: Revision 3.0  1993/08/18  12:06:37  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_msg: test d_msgctl d_msgget d_msgsnd d_msgrcv Setvar Findhdr osname
?MAKE: -pick add $@ %<
?S:d_msg:
?S: This variable conditionally defines the HAS_MSG symbol, which
?S: indicates that the entire msg*(2) library is present.
?S:.
?C:HAS_MSG:
?C: This symbol, if defined, indicates that the entire msg*(2) library is
?C: supported (IPC mechanism based on message queues).
?C:.
?H:#$d_msg
 HAS_MSG  /**/
?H:.
?T:h_msg
?LINT:set d_msg
: see how much of the 'msg*(2)' library is present.
h_msg=true
echo " "
case "$d_msgctl$d_msgget$d_msgsnd$d_msgrcv" in
*"$undef"*) h_msg=false;;
esac
case "$osname" in
freebsd)
   case "`ipcs 2>&1`" in
   "SVID messages"*"not configured"*)
 echo "Your $osname does not have the msg*(2) configured." >&4
       h_msg=false
 val="$undef"
 set msgctl d_msgctl
 eval $setvar
 set msgget d_msgget
 eval $setvar
 set msgsnd d_msgsnd
 eval $setvar
 set msgrcv d_msgrcv
 eval $setvar
 ;;
   esac
   ;;
esac
: we could also check for sys/ipc.h ...
if $h_msg && $test `./findhdr sys/msg.h`; then
 echo "You have the full msg*(2) library." >&4
 val="$define"
else
```

```
 echo "You don't have the full msg*(2) library." >&4
 val="$undef"
fi
set d_msg
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_msg.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_attribut.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 2020, Raphael Manfredi, Karl Williamson
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_non_int_bitfields: \
    Myread Oldconfig cat cc ccflags Setvar compiler_warning rm_try
?MAKE: -pick add $@ %<
?S:d_non_int_bitfields:
?S: This variable conditionally defines HAS_NON_INT_BITFIELDS
?S: which indicates that the C compiler accepts struct bitfields of sizes
?S: that aren't 'int' or 'unsigned int'
?S:.
?C:HAS_NON_INT_BITFIELDS:
?C: This symbol, if defined, indicates that the C compiler accepts, without
?C: error or warning, struct bitfields
 that are declared with sizes other
?C: than plain 'int'; for example 'unsigned char' is accepted.
?C:.
?H:?%<:#$d_non_int_bitfields HAS_NON_INT_BITFIELDS /**/
?H:.
?LINT:set d_non_int_bitfields
?F:!try.out !try.c
: Look for non 'int'-sized bitfields
case "$d_non_int_bitfields" in
")
echo " " >&4
echo "Checking whether your compiler can handle struct bitfields that aren't 'int' or 'unsigned int' ..." >&4
$cat >try.c <<'EOCP'
#include <stdio.h>
struct foo {
   unsigned char byte:1;
```

```
   unsigned short halfword:1;
} bar;
EOCP
if $cc $ccflags -c try.c >try.out 2>&1 ; then
 if $compiler_warning try.out >/dev/null 2>&1; then
  echo "Your C compiler doesn't support struct bitfields that aren't 'int' or 'unsigned int'." >&4
  val="$undef"
 else
  echo "Your C compiler supports struct bitfields besides 'int' and 'unsigned int'." >&4
  val="$define"
 fi
else
 echo "Your C compiler doesn't seem to understand struct bitfields that aren't 'int' or 'unsigned int' at all." >&4
 val="$undef"
fi
;;
*)
 val="$d_non_int_bitfields" ;;
esac
set d_non_int_bitfields
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_bitfield.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_modfl d_modflproto: Inlibc Compile Hasproto cat \
 test ccflags uselongdouble \
 d_sqrtl d_aintl d_copysignl d_ilogbl d_scalbnl d_frexpl d_ldexpl \
 d_truncl
?MAKE: -pick add $@ %<
?S:d_modfl:
?S: This variable conditionally defines the HAS_MODFL symbol, which
?S: indicates to the C program that the modfl() routine is available.
?S:.
?S:d_modflproto:
?S: This symbol, if defined, indicates that the system provides
?S: a prototype for the modfl() function.  Otherwise, it is up
?S: to the program to supply one.  C99 says it should be
```

```
?S:  long double modfl(long double, long double *);
?S:.
?C:HAS_MODFL:
?C: This symbol, if defined, indicates that the modfl routine is
?C: available to split a long double
 x into a fractional part f and
?C: an integer part i such that |f| < 1.0 and (f + i) = x.
?C:.
?C:HAS_MODFL_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the modfl() function.  Otherwise, it is up
?C: to the program to supply one.
?C:.
?H:#$d_modfl HAS_MODFL  /**/
?H:#$d_modflproto HAS_MODFL_PROTO  /**/
?H:.
?T:message
?LINT:set d_modfl
?LINT:set d_modflproto
?LINT:change ccflags
: see if modfl exists
set modfl d_modfl
eval $inlibc

: see if prototype for modfl is available
echo " "
set d_modflproto modfl define math.h
eval $hasproto

if $test "$uselongdouble" = "$define"; then
   message=""
   if $test "$d_sqrtl" != "$define"; then
 message="$message sqrtl"
   fi
   if $test "$d_modfl" != "$define"; then
 if $test "$d_truncl:$d_copysignl" = "$define:$define"; then
     echo "You have both truncl and copysignl, so I can emulate modfl."
 else
     if $test "$d_aintl:$d_copysignl" = "$define:$define"; then
  echo "You have both aintl
 and copysignl, so I can emulate modfl."
     else
  message="$message modfl"
     fi
 fi
   fi
   if $test "$d_frexpl" != "$define"; then
 if $test "$d_ilogbl:$d_scalbnl" = "$define:$define"; then
```

```
    echo "You have both ilogbl and scalbnl, so I can emulate frexpl."
 else
    message="$message frexpl"
 fi
   fi
   if $test "$d_ldexpl" != "$define"; then
 message="$message ldexpl"
   fi

   if $test "$message" != ""; then
 $cat <<EOM >&4

*** You requested the use of long doubles but you do not seem to have
*** the following mathematical functions needed for long double support:
***    $message
*** Please rerun Configure without -Duselongdouble and/or -Dusemorebits.
*** Cannot continue, aborting.

EOM

 exit 1
   fi
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_modfl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethostent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_gethostent_r gethostent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_gethostent_r:
?S: This variable conditionally defines the HAS_GETHOSTENT_R symbol,
?S: which indicates to the C program that the gethostent_r()
?S: routine is available.
?S:.
?S:gethostent_r_proto:
?S: This variable encodes the prototype of gethostent_r.
?S: It is zero if d_gethostent_r is undef, and one of the
```

```
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gethostent_r
?S: is defined.
?S:.
?C:HAS_GETHOSTENT_R:
?C: This symbol, if defined, indicates that the gethostent_r routine
?C: is
 available to gethostent re-entrantly.
?C:.
?C:GETHOSTENT_R_PROTO:
?C: This symbol encodes the prototype of gethostent_r.
?C: It is zero if d_gethostent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gethostent_r
?C: is defined.
?C:.
?H:#$d_gethostent_r HAS_GETHOSTENT_R /**/
?H:#define GETHOSTENT_R_PROTO $gethostent_r_proto /**/
?H:.
?T:try hdrs d_gethostent_r_proto
: see if gethostent_r exists
set gethostent_r d_gethostent_r
eval $inlibc
case "$d_gethostent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_gethostent_r_proto:$usethreads" in
 ":define") d_gethostent_r_proto=define
  set d_gethostent_r_proto gethostent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_gethostent_r_proto" in
 define)
 case "$gethostent_r_proto" in
 "|0) try='int gethostent_r(struct hostent*, char*, size_t, struct hostent**, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostent_r_proto=I_SBWRE ;;
 esac
 case "$gethostent_r_proto"
 in
 "|0) try='int gethostent_r(struct hostent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostent_r_proto=I_SBIE ;;
 esac
 case "$gethostent_r_proto" in
 "|0) try='struct hostent* gethostent_r(struct hostent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostent_r_proto=S_SBIE ;;
 esac
 case "$gethostent_r_proto" in
 "|0) try='struct hostent* gethostent_r(struct hostent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && gethostent_r_proto=S_SBI ;;
```

```
 esac
 case "$gethostent_r_proto" in
 "|0) try='int gethostent_r(struct hostent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && gethostent_r_proto=I_SBI ;;
 esac
 case "$gethostent_r_proto" in
 "|0) try='int gethostent_r(struct hostent*, struct hostent_data*);'
 ./protochk "$extern_C $try" $hdrs && gethostent_r_proto=I_SD ;;
 esac
 case "$gethostent_r_proto" in
 "|0) d_gethostent_r=undef
  gethostent_r_proto=0
  echo "Disabling gethostent_r, cannot determine prototype." >&4 ;;
 * ) case
 "$gethostent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) gethostent_r_proto="REENTRANT_PROTO_$gethostent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "gethostent_r has no prototype, not using it." >&4 ;;
  esac
  d_gethostent_r=undef
  gethostent_r_proto=0
  ;;
 esac
 ;;
*) gethostent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_gethostent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_safemcpy.U,v 3.0.1.5 1997/02/28 15:41:12 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
```

```
?RCS: $Log: d_safemcpy.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  15:41:12  ram
?RCS: patch61: improved overlapping copy check
?RCS: patch61: comfort them if they have memmove
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.4  1995/07/25  13:58:46  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.3  1995/03/21  08:47:26  ram
?RCS: patch52: swapped two first arguments of memcpy() calls
?RCS:
?RCS:
 Revision 3.0.1.2  1994/10/29  16:15:10  ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:53:12  ram
?RCS: patch23: ensure string is not optimized in read-only memory (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_safemcpy: Compile cat d_memcpy rm_try run \
 d_memmove i_memory i_stdlib i_string i_unistd Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_safemcpy:
?S: This variable conditionally defines the HAS_SAFE_MEMCPY symbol if
?S: the memcpy() routine can do overlapping copies.
?S: For overlapping copies, memmove() should be used, if available.
?S:.
?C:HAS_SAFE_MEMCPY (SAFE_MEMCPY):
?C: This symbol, if defined, indicates that the memcpy routine is available
?C: to copy potentially overlapping memory blocks.  If you need to
?C: copy overlapping memory blocks, you should check HAS_MEMMOVE and
?C: use memmove() instead, if available.
?C:.
?H:#$d_safemcpy HAS_SAFE_MEMCPY /**/
?H:.
?F:!try
?LINT:
 set d_safemcpy
: can memcpy handle overlapping blocks?
echo " "
?X: assume the worst
val="$undef"
case "$d_memmove" in
"$define") echo "I'll use memmove() instead of memcpy() for overlapping copies." ;;
*) case "$d_memcpy" in
```

```
 "$define")
  echo "Checking to see if memcpy() can do overlapping copies..." >&4
  $cat >try.c <<EOCP
#$i_memory I_MEMORY
#$i_stdlib I_STDLIB
#$i_string I_STRING
#$i_unistd I_UNISTD
EOCP
 $cat >>try.c <<'EOCP'
#include <stdio.h>
#ifdef I_MEMORY
#  include <memory.h>
#endif
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#ifdef I_STRING
#  include <string.h>
#else
#  include <strings.h>
#endif
#ifdef I_UNISTD
#  include <unistd.h>  /* Needed for NetBSD */
#endif
int main()
{
char buf[128], abc[128];
char *b;
int len;
int off;
int align;

/* Copy "abcde..." string to char abc[] so that gcc doesn't
  try to store the string in read-only memory. */
memcpy(abc, "abcdefghijklmnopqrstuvwxyz0123456789", 36);

for (align = 7; align >=
 0; align--) {
 for (len = 36; len; len--) {
  b = buf+align;
  memcpy(b, abc, len);
  for (off = 1; off <= len; off++) {
   memcpy(b+off, b, len);
   memcpy(b, b+off, len);
   if (memcmp(b, abc, len))
    exit(1);
  }
 }
```

```
}
exit(0);
}
EOCP
  set try
  if eval $compile_ok; then
   if $run ./try 2>/dev/null; then
    echo "Yes, it can."
    val="$define"
   else
    echo "It can't, sorry."
   fi
  else
   echo "(I can't compile the test program, so we'll assume not...)"
  fi
  ;;
 esac
 $rm_try
 ;;
esac
set d_safemcpy
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_safemcpy.U
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```
?RCS: Copyright (c) 2006-2007, H.Merijn Brand
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_builtin_choose_expr d_builtin_expect : Compile Setvar cat run rm_try
?MAKE: -pick add $@ %<
?S:d_builtin_choose_expr:
?S: This conditionally defines HAS_BUILTIN_CHOOSE_EXPR, which
?S: indicates that the compiler supports __builtin_choose_expr(x,y,z).
?S: This built-in function is analogous to the "x?y:z" operator in C,
?S: except that the expression returned has its type unaltered by
?S: promotion rules. Also, the built-in function does not evaluate
?S: the expression that was not chosen.
?S:.
?S:d_builtin_expect:
?S: This conditionally
```

```
 defines HAS_BUILTIN_EXPECT, which indicates
?S: that the compiler supports __builtin_expect(exp,c).  You may use
?S: __builtin_expect to provide the compiler with branch prediction
?S: information.
?S:.
?C:HAS_BUILTIN_CHOOSE_EXPR:
?C: Can we handle GCC builtin for compile-time ternary-like expressions
?C:.
?C:HAS_BUILTIN_EXPECT:
?C: Can we handle GCC builtin for telling that certain values are more
?C: likely
?C:.
?H:#$d_builtin_expect HAS_BUILTIN_EXPECT /**/
?H:#$d_builtin_choose_expr HAS_BUILTIN_CHOOSE_EXPR /**/
?H:.
?F:!try
?LINT:set d_builtin_expect d_builtin_choose_expr
: Look for GCC-style __builtin_choose_expr
case "$d_builtin_choose_expr" in
")
   echo " "
   echo "Checking whether your compiler can handle __builtin_choose_expr ..." >&4
   $cat >try.c <<'EOCP'
#include <assert.h>
#include <stdlib.h>
#include <stdio.h>

#define SYRINX(x) __builtin_choose_expr( x, (1056*2), (103*50) )

int main(void) {
   assert( SYRINX(1) == 2112 );
   assert( SYRINX(1) != 5150 );
    assert( SYRINX(0) == 5150 );
   assert( SYRINX(0) != 2112 );
   puts( "All good!" );
   exit(0);
}

EOCP
   set try
   if eval $compile && $run ./try; then
 echo "Your C compiler supports __builtin_choose_expr."
 val="$define"
   else
 echo "Your C compiler doesn't seem to understand __builtin_choose_expr."
 val="$undef"
   fi
;;
```

```
*) val="$d_builtin_choose_expr" ;;
esac

set d_builtin_choose_expr
eval $setvar
$rm_try

: Look for GCC-style __builtin_expect
case "$d_builtin_expect" in
")
   echo " "
   echo "Checking whether your compiler can handle __builtin_expect ..." >&4
   $cat >try.c <<'EOCP'
int main(void) {
   int n = 50;
   if ( __builtin_expect(n, 0) ) n = 1;
   /* Remember shell exit code truth is 0, C truth is non-zero */
   return !(n == 1);
}
EOCP
   set try
   if eval $compile && $run ./try; then
 echo "Your C compiler supports __builtin_expect."
 val="$define"
   else
 echo "Your C compiler doesn't seem to understand __builtin_expect."
 val="$undef"
    fi
   ;;
*) val="$d_builtin_expect" ;;
esac

set d_builtin_expect
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_builtin.U
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```
?RCS: $Id: d_msgrcv.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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```
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?RCS:
?RCS: $Log: d_msgrcv.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:40  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_msgrcv: Inlibc
?MAKE: -pick add $@ %<
?S:d_msgrcv:
?S: This variable conditionally defines the HAS_MSGRCV symbol, which
?S: indicates to the C program that the msgrcv() routine is available.
?S:.
?C:HAS_MSGRCV:
?C: This symbol, if defined, indicates that the msgrcv() routine is
?C: available to extract a message from the message queue.
?C:.
?H:#$d_msgrcv
 HAS_MSGRCV  /**/
?H:.
?LINT:set d_msgrcv
: see if msgrcv exists
set msgrcv d_msgrcv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_msgrcv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorlib.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorlib.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:d_vendorlib vendorlib vendorlibexp installvendorlib vendorlib_stem: \
 Getfile Setprefixvar Oldconfig Prefixit package vendorprefix sed \
 installstyle version
?MAKE: -pick add $@ %<
```

```
?Y:TOP
?S:vendorlib:
?S: This variable contains the eventual value of the VENDORLIB symbol,
?S: which is the name of the private library for this package.
?S: The standard
 distribution will put nothing in this directory.
?S: Vendors who distribute perl may wish to place their own
?S: modules in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorlibexp:
?S: This variable is the ~name expanded version of vendorlib, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorlib=''
?S:installvendorlib:
?S: This variable is really the same as vendorlibexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?S:d_vendorlib:
?S: This variable conditionally defines PERL_VENDORLIB.
?S:.
?S:vendorlib_stem:
?S: This variable is $vendorlibexp with any trailing version-specific component
?S: removed.  The elements in inc_version_list (inc_version_list.U) can
?S: be tacked onto this variable to generate a list of directories to search.
?S:.
?C:PERL_VENDORLIB:
?C: If defined, this symbol contains
 the name of a private library.
?C: The library is private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.  The program
?C: should be prepared to do ~ expansion.
?C: The standard distribution will put nothing in this directory.
?C: Vendors who distribute perl may wish to place their own
?C: modules in this directory with
?C:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?C: or equivalent.  See INSTALL for details.
?C:.
?C:PERL_VENDORLIB_EXP:
?C: This symbol contains the ~name expanded version of VENDORLIB, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?C:PERL_VENDORLIB_STEM:
?C: This define is PERL_VENDORLIB_EXP with any trailing version-specific component
?C: removed.  The elements in inc_version_list (inc_version_list.U) can
```

```
?C: be tacked onto this variable to generate a list of directories to search.
?C:.
?H:#$d_vendorlib PERL_VENDORLIB "$vendorlib"  /**/
?H:#$d_vendorlib PERL_VENDORLIB_EXP
 "$vendorlibexp"  /**/
?H:#$d_vendorlib PERL_VENDORLIB_STEM "$vendorlib_stem"  /**/
?H:.
?T:prog
?LINT:change prefixvar
?LINT:set installvendorlib
: Set the vendorlib variables
case "$vendorprefix" in
") d_vendorlib="$undef"
 vendorlib="
 vendorlibexp="
 ;;
*) d_vendorlib="$define"
 : determine where vendor-supplied modules go.
 : Usual default is /usr/local/lib/perl5/vendor_perl/$version
 case "$vendorlib" in
 ")
?X:  remove any trailing -3.0 or other version identification
  prog=`echo $package | $sed 's/-*[0-9.]*$//'`
  case "$installstyle" in
  *lib/perl5*) dflt=$vendorprefix/lib/$package/vendor_$prog/$version ;;
  *)      dflt=$vendorprefix/lib/vendor_$prog/$version ;;
  esac
  ;;
 *) dflt="$vendorlib"
  ;;
 esac
 fn=d~+
 rp='Pathname for the vendor-supplied library files?'
 . ./getfile
 vendorlib="$ans"
 vendorlibexp="$ansexp"
 ;;
esac
vendorlib_stem=`echo "$vendorlibexp" | sed "s,/$version$,,"`
prefixvar=vendorlib
. ./installprefix
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/vendorlib.U
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?RCS: Id

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_fd_set.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:33:16  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20  06:57:23  ram
?RCS: patch30: extended scope for fd_set checks (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:06:27  ram
?RCS: patch16: comments for HAS_FD_* symbols were not consistent
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_fd_set d_fd_macros d_fds_bits: cat +cc +ccflags rm Oldconfig
 \
 d_socket i_systime i_sysselct i_syssock
?MAKE: -pick add $@ %<
?S:d_fd_set:
?S: This variable contains the eventual value of the HAS_FD_SET symbol,
?S: which indicates if your C compiler knows about the fd_set typedef.
?S:.
?S:d_fd_macros:
?S: This variable contains the eventual value of the HAS_FD_MACROS symbol,
?S: which indicates if your C compiler knows about the macros which
?S: manipulate an fd_set.
?S:.
?S:d_fds_bits:
?S: This variable contains the eventual value of the HAS_FDS_BITS symbol,
?S: which indicates if your fd_set typedef contains the fds_bits member.
?S: If you have an fd_set typedef, but the dweebs who installed it did
?S: a half-fast job and neglected to provide the macros to manipulate
?S: an fd_set, HAS_FDS_BITS will let us know how to fix the gaffe.
?S:.
?C:HAS_FD_SET:
?C: This symbol, when defined, indicates presence of the fd_set typedef
?C: in <sys/types.h>
?C:.
?C:HAS_FD_MACROS:
?C: This symbol, when defined,  indicates presence of the macros used
```

```
 to
?C: manipulate an fd_set.
?C:.
?C:HAS_FDS_BITS:
?C: This symbol, when defined, indicates presence of the fds_bits member in
?C: fd_set.  This knowledge is useful if fd_set is available but the macros
?C: aren't.
?C:.
?H:#$d_fd_set HAS_FD_SET /**/
?H:#$d_fd_macros HAS_FD_MACROS /**/
?H:#$d_fds_bits HAS_FDS_BITS /**/
?H:.
?F:!fd_set
: check for fd_set items
$cat <<EOM

Checking to see how well your C compiler handles fd_set and friends ...
EOM
?X: The FD_SET macros can be in strange places.  On some SysV-based
?X: systems, they are in <sys/bsdtypes.h>, which is included (perhaps)
?X: by <sys/socket.h>.  We won't force people to include
?X: <sys/bsdtypes.h> because it might introduce other
?X: incompatibilities.
$cat >fd_set.c <<EOCP
#$i_systime I_SYS_TIME
#$i_sysselct I_SYS_SELECT
#$d_socket HAS_SOCKET
#$i_syssock I_SYS_SOCKET
#include <sys/types.h>
#ifdef HAS_SOCKET
#ifdef I_SYS_SOCKET
#include <sys/socket.h> /* Might include <sys/bsdtypes.h> */
#endif
#endif
#ifdef I_SYS_TIME
#include
 <sys/time.h>
#endif
#ifdef I_SYS_SELECT
#include <sys/select.h>
#endif
int main() {
 fd_set fds;

#ifdef TRYBITS
 if(fds.fds_bits);
#endif
```

```
#if defined(FD_SET) && defined(FD_CLR) && defined(FD_ISSET) && defined(FD_ZERO)
 exit(0);
#else
 exit(1);
#endif
}
EOCP
if $cc $ccflags -DTRYBITS -o fd_set fd_set.c >fd_set.out 2>&1 ; then
 d_fds_bits="$define"
 d_fd_set="$define"
 echo "Well, your system knows about the normal fd_set typedef..." >&4
 if ./fd_set; then
  echo "and you have the normal fd_set macros (just as I'd expect)." >&4
  d_fd_macros="$define"
 else
  $cat >&4 <<'EOM'
but not the normal fd_set macros!  Gaaack!  I'll have to cover for you.
EOM
  d_fd_macros="$undef"
 fi
else
 $cat <<'EOM'
Hmm, your compiler has some difficulty with fd_set.  Checking further...
EOM
 if $cc $ccflags -o fd_set fd_set.c >fd_set.out 2>&1 ; then
  d_fds_bits="$undef"
  d_fd_set="$define"
  echo "Well, your system has some sort of fd_set available..." >&4
  if ./fd_set; then
   echo "and you have the
 normal fd_set macros." >&4
   d_fd_macros="$define"
  else
   $cat <<'EOM'
but not the normal fd_set macros!  Gross!  More work for me...
EOM
   d_fd_macros="$undef"
  fi
 else
 echo "Well, you got zip.  That's OK, I can roll my own fd_set stuff." >&4
  d_fd_set="$undef"
  d_fds_bits="$undef"
  d_fd_macros="$undef"
 fi
fi
$rm -f fd_set*
```

Found in path(s):

* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_fd_set.U
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```
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_pthread_attr_setscope: Inlibc
?MAKE: -pick add $@ %<
?S:d_pthread_attr_setscope:
?S: This variable conditionally defines HAS_PTHREAD_ATTR_SETSCOPE if
?S: pthread_attr_setscope() is available to set the contention scope
?S: attribute of a thread attribute object.
?S:.
?C:HAS_PTHREAD_ATTR_SETSCOPE:
?C: This symbol, if defined, indicates that the pthread_attr_setscope
?C: system call is available to set the contention scope attribute of
?C: a thread attribute object.
?C:.
?H:#$d_pthread_attr_setscope HAS_PTHREAD_ATTR_SETSCOPE  /**/
?H:.
?LINT:set
 d_pthread_attr_setscope
: see if pthread_attr_setscope exists
set pthread_attr_setscope d_pthread_attr_setscope
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_pthread_attr_ss.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
?MAKE:d_qgcvt: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_qgcvt:
?S: This variable conditionally defines the HAS_QGCVT symbol, which
?S: indicates to the C program that the qgcvt() routine is available.
?S:.
?C:HAS_QGCVT:
?C: This symbol, if defined, indicates that the qgcvt routine is
?C: available to convert long doubles ("quad doubles") to strings.
?C: This is a low-level routine hopefully faster than sprintf.
?C:.
?H:#$d_qgcvt HAS_QGCVT  /**/
?H:.
?LINT:set d_qgcvt
: see if qgcvt exists
set qgcvt d_qgcvt
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_qgcvt.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:uidsize: Myread Typedef uidtype Compile run i_stdlib
?MAKE: -pick add $@ %<
?S:uidsize:
?S: This variable contains the size of a uidtype in bytes.
?S:.
?C:Uid_t_size:
?C: This symbol holds the size of a Uid_t in bytes.
?C:.
?H:#define Uid_t_size $uidsize  /* UID size */
?H:.
?T:yyy zzz
?F:!try
: Check size of UID
echo " "
case "$uidtype" in
*_t) zzz="$uidtype" ;;
*)   zzz="uid"  ;;
esac
```

```
echo "Checking the size of $zzz..." >&4
cat > try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include
 <stdlib.h>
#endif
int main() {
   printf("%d\n", (int)sizeof($uidtype));
   exit(0);
}
EOCP
set try
if eval $compile_ok; then
 yyy=`$run ./try`
 case "$yyy" in
 ") uidsize=4
  echo "(I can't execute the test program--guessing $uidsize.)" >&4
  ;;
 *) uidsize=$yyy
  echo "Your $zzz is $uidsize bytes long."
  ;;
 esac
else
 uidsize=4
 echo "(I can't compile the test program--guessing $uidsize.)" >&4
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/uidsize.U
No license file was found, but licenses were detected in source scan.

```
;###########################################################################
;# Jmake rules for building libraries, programs, scripts, and data files
;# $Id: Jmake.rules 18 2006-12-27 10:35:09Z rmanfredi $

/*
*     MACHINE-INDEPENDENT RULES -- DO NOT MODIFY
*/

/* $Id: Jmake.rules 18 2006-12-27 10:35:09Z rmanfredi $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
```

```
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* $Log: Jmake.rules,v $
* Revision 3.0.1.7  2004/08/22 08:28:58  ram
* patch71: random cleanup
*
* Revision 3.0.1.6  1997/02/28  14:56:01  ram
* patch61: now handles USRINC for dependencies
* patch61: smarter about dependencies
 computation
*
* Revision 3.0.1.5  1995/09/25  09:07:19  ram
* patch59: smarter sed command to strip /usr/include dependencies
*
* Revision 3.0.1.4  1995/07/25  13:33:59  ram
* patch56: install of script man pages can now cope with missing files
* patch56: the clobber target now removes the .config directory as well
*
* Revision 3.0.1.3  1995/03/21  08:35:28  ram
* patch52: suppressed extra argument to NormalProgramTarget call
*
* Revision 3.0.1.2  1995/01/11  14:49:55  ram
* patch45: new macros ShellScriptTargetExt and SimpleShellScriptTargetExt
* patch45: directory installation is now made via INSTALLDIR (Configure)
*
* Revision 3.0.1.1  1994/10/29  15:46:30  ram
* patch36: added RemoteDependency rule
*
* Revision 3.0  1993/08/18  12:04:14  ram
* Baseline for dist 3.0 netwide release.
*
*/

/* Please, edit only with tabstops = 4 (":set ts=4" under vi) */

/*
* AddedByConfigure:
* Gives name of the files generated by Configure that can safely
* be removed
 when a "make clobber" is issued. Not that it is useless
* to name config.h or config.sh because these are already taken care
* of by jmake.
*/
#define AddedByConfigure(files) @!\
local_clobber::   @@\
```

```
 $(RM) files

/*
* AddSuffix:
* Adds a sufix to the .SUFFIXES: list.
*/
#define AddSuffix(ext) @!\
|suffix ext



/*
* AllTarget:
* Generate rules to build necessary things during make all.
*/
#define AllTarget(depends) @!\
all:: depends    @!\
       @!\
local_realclean::   @@\
 $(RM) depends

/*
* RemoveTargetProgram:
* This is used in some other macros in order to remove the target
* before starting its building (saves disk space).  There should be
* no '@!' at the end of the '#define' line, because this macro is
* used *inside* building rules.
*/
#define RemoveTargetProgram(program) \
 $(RM) program @@\
 if test -f program^^^$(_EXE); then \ @@\
  $(MV) program^^^$(_EXE) program^^~^^^$(_EXE); fi

/*
* NormalProgramTarget:
* Generate rules to compile and link the
 indicated program; since
* it does not use any default object files, it may be used for
* multiple programs in the same Jmakefile.
*/
#define NormalProgramTarget(program,sources,objects) @!\
++OBJECTS objects @!\
++SOURCES sources @!\
NormalObjectRule()    @!\
AllTarget(program)    @!\
       @!\
program: objects    @@\
 RemoveTargetProgram($@)  @@\
 $(CC) -o $@ objects $(JLDFLAGS) $(LIBS) @!\
```

```
/*
* SingleProgramTarget:
* Obsolete version of NormalProgramTarget that doesn't have
* deplibs.
*/
#define SingleProgramTarget(program,objects,libs)  \
NormalProgramTarget(program,objects,libs)

/*
* SimpleProgramTarget:
* Generate rules for compiling and linking programs that only have
* one C source file.  It should only be used in Jmakefiles that
* describe a single program.
*/
#define SimpleProgramTarget(program) @!\
NormalProgramTarget(program,program.c,program.o)



/*
* ComplexProgramTarget:
* Generate rules for compiling and linking the program specified by
* $(OBJS) and
 $(SRCS), installing the program and its man page, and
* generating dependencies.  It should only be used in Jmakefiles
* that describe a single program.
*/
#define ComplexProgramTarget(program) @!\
++OBJECTS $(OBJS) @!\
++SOURCES $(SRCS) @!\
NormalObjectRule()     @!\
AllTarget(program)     @!\
        @!\
program: $(OBJS)     @@\
 RemoveTargetProgram($@)   @@\
 $(CC) -o $@ $(OBJS) $(JLDFLAGS) $(LIBS) @!\
        @!\
InstallProgram(program,$(BINDIR)) @!\
InstallManPage(program,$(MANSRC)) @!\
DependTarget()      @!\
LintTarget()


/*
* ComplexProgramTarget_1:
* Generate rules for compiling and linking the program specified by
```

```
* $(OBJS1) and $(SRCS1), installing the program and its man page,
* and generating dependencies for it and any programs described by
* $(SRCS2) and $(SRCS3).  It should be used to build the primary
* program in Jmakefiles that describe multiple programs.
*/
#define ComplexProgramTarget_1(program) @!\
++OBJECTS $(OBJS1) @!\
++SOURCES $(SRCS1) @!\
NormalObjectRule()     @!\
AllTarget(program)     @!\
        @!\
program:
 $(OBJS1)     @@\
 RemoveTargetProgram($@)   @@\
 $(CC) -o $@ $(OBJS1) $(JLDFLAGS) $(LIBS) @!\
        @!\
InstallProgram(program,$(BINDIR)) @!\
InstallManPage(program,$(MANSRC)) @!\
        @!\
DependTarget()      @!\
LintTarget()


/*
* ComplexProgramTarget_2:
* Generate rules for compiling and linking the program specified by
* $(OBJS2) and $(SRCS2) and installing the program and man page.
* It should be used to build the second program in Jmakefiles
* describing more than one program.
*/
#define ComplexProgramTarget_2(program) @!\
++OBJECTS $(OBJS2) @!\
++SOURCES $(SRCS2) @!\
NormalObjectRule()     @!\
AllTarget(program)     @!\
        @!\
program: $(OBJS2)     @@\
 RemoveTargetProgram($@)   @@\
 $(CC) -o $@ $(OBJS2) $(JLDFLAGS) $(LIBS) @!\
        @!\
InstallProgram(program,$(BINDIR)) @!\
InstallManPage(program,$(MANSRC))


/*
* ComplexProgramTarget_3:
* Generate rules for compiling and linking the
```

```
 program specified by
* $(OBJS3) and $(SRCS3) and installing the program and man page.  It
* should be used to build the third program in Jmakefiles describing
* more than one program.
*/
#define ComplexProgramTarget_3(program) @!\
++OBJECTS $(OBJS3) @!\
++SOURCES $(SRCS3) @!\
NormalObjectRule()     @!\
AllTarget(program)     @!\
        @!\
program: $(OBJS3)     @@\
 RemoveTargetProgram($@)   @@\
 $(CC) -o $@ $(OBJS3) $(JLDFLAGS) $(LIBS) @!\
        @!\
InstallProgram(program,$(BINDIR)) @!\
InstallManPage(program,$(MANSRC))


/*
* ComplexShellManualTarget:
* Builds manual pages that are to be extracted from .SH files into
* .$manext files.
*/
#define ComplexShellManualTarget(manpages) @!\
++MANPAGE manpages @!\
|once _ShellManualRule_  @!\
|rule:.SH.$manext:   @!\
|rule: /bin/sh $<   @!\
|rule:      @!\
-once      @!\
AddSuffix(.SH)    @!\
AddSuffix(.$manext)   @!\
AllTarget(manpages)   @!\
       @!\
local_install.man::   @@\
 _MakeInstallDirIgnore($(MANSRC)) \     @@\
 for
 file in manpages; do \  @@\
  (set -x; $(INSTALL) -c -m 444 $$file \ @@\
   $(INSTALL_PREFIX)$(MANSRC)) || exit 1; \ @@\
 done     @!\
       @!\
local_deinstall.man::  @@\
 @case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
 for file in manpages; do \  @@\
  (set -x; $(RM) $(INSTALL_PREFIX)$(MANSRC)/$$file); \ @@\
 done
```

```
/*
* Initialize:
* Puts the line symbol = value in the initialization section of
* Makefile.SH (the one that is subject to parameter substitutions).
*/
#define Initialize(symbol,value) @!\
+symbol = value


/*
* InstallLibrary:
* Generate rules to install the indicated library.
*/
#define InstallLibrary(libname,dest) @!\
local_install:: lib^^libname.a  @@\
 _MakeInstallDirIgnore(dest) \ @@\
 $(INSTALL) -c -m 644 lib^^libname.a $(INSTALL_PREFIX)^^^dest  @@\
 $(RANLIB) dest/lib^^libname.a @@\
 chmod 444 dest/lib^^libnane.a @!\
        @!\
local_deinstall::     @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/lib^^libname.a


/*
* InstallSharedLibrary:
* Generate rules to install
 the shared library.
*/
#define InstallSharedLibrary(libname,rev,dest) @!\
local_install:: lib^^libname.so.rev  @@\
 _MakeInstallDirIgnore(dest) \  @@\
 $(INSTALL) -c -m 444 lib^^libname.so.rev $(INSTALL_PREFIX)^^^dest @!\
        @!\
local_deinstall::      @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/lib^^libname.so.rev


/*
* InstallSharedLibraryData:
* Generate rules to install the shared library data
*/
#define InstallSharedLibraryData(libname,rev,dest) @!\
local_install:: lib^^libname.sa.rev  @@\
 _MakeInstallDirIgnore(dest) \  @@\
 $(INSTALL) -c -m 444 lib^^libname.sa.rev $(INSTALL_PREFIX)^^^dest @!\
```

```
        @!\
local_deinstall::     @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/lib^^libname.sa.rev


/*
* InstallLibraryAlias:
* Generate rules to create a link from one library name to another
* for the purposes of aliasing.
*/
#define InstallLibraryAlias(libname,alias,dest) @!\
local_install:: lib^^libname.a @@\
 $(RM) lib^^alias.a  @@\
 -(cd dest; $(LN) lib^^libname.a lib^^alias.a)
 @!\
      @!\
local_deinstall::   @@\
 $(RM) dest/lib^^alias.a


/*
* InstallLintLibrary:
* Generate rules to install the indicated lint library.
*/
#define InstallLintLibrary(libname,dest) @!\
install.ln:: llib-l^^libname.ln   @@\
 _MakeInstallDirIgnore(dest) \  @@\
 $(INSTALL) -c -m 444 llib-l^^libname.ln $(INSTALL_PREFIX)^^^dest @!\
      @!\
deinstall.ln::    @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/llib-l^^libname.ln


/*
* InstallManPageLong:
* Generate rules to install the indicated manual page, giving it an
* alternate name.  This is used for installing man pages whose base
* name without the .man suffix would normally be longer than 8
* characters (the limit for using source code control systems on
* files systems with short file names).
*/
#define InstallManPageLong(file,destdir,dest) @!\
local_install.man:: file.man   @@\
 _MakeInstallDirIgnore(destdir) \ @@\
 $(INSTALL) -c -m 444 file.man $(INSTALL_PREFIX)^^^destdir/dest.$(L) @!\
        @!\
local_deinstall.man::     @@\
 $(RM)
```

```
 $(INSTALL_PREFIX)^^^destdir/dest.$(L)  @!\


/*
* InstallManPage:
* Generate rules to install the indicated manual page.
*/
#define InstallManPage(file,dest) @!\
InstallManPageLong(file,dest,file)


/*
* InstallNonExec:
* Generate rules to install a data file using any special
*  install flags.
*/
#define InstallNonExec(file,dest) @!\
local_install:: file    @@\
 _MakeInstallDirIgnore(dest) \ @@\
 $(INSTALL) -c -m 444 file $(INSTALL_PREFIX)^^^dest @!\
        @!\
local_deinstall::     @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/file


/*
* InstallProgramWithFlags:
* Generate rules to install an executable program using given
* install flags.
*/
#define InstallProgramWithFlags(program,dest,flags) @!\
local_install:: program    @@\
 _MakeInstallDirIgnore(dest) \ @@\
 $(INSTALL) -c -s -m 555 flags program^^^$(_EXE) $(INSTALL_PREFIX)^^^dest @!\
        @!\
local_deinstall::     @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/program^^^$(_EXE)


/*
* InstallProgramNoStripWithFlags:
 * Generate rules to install an executable program using given
* install flags.
*/
#define InstallProgramNoStripWithFlags(program,dest,flags) @!\
local_install:: program    @@\
 _MakeInstallDirIgnore(dest) \ @@\
 $(INSTALL) -c -m 555 flags program^^^$(_EXE) $(INSTALL_PREFIX)^^^dest @!\
```

```
        @!\
local_deinstall::     @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/program^^^$(_EXE)


/*
* InstallProgram:
* Generate rules to install an executable program using any special
* install flags set in $(INSTALLFLAGS).
*/
#define InstallProgram(program,dest) @!\
InstallProgramWithFlags(program,dest,^^)


/*
* InstallProgramNoStrip:
* Generate rules to install an executable program using any special
* install flags set in $(INSTALLFLAGS), but without stripping the
* executable from debugging symbols.
*/
#define InstallProgramNoStrip(program,dest) @!\
InstallProgramNoStripWithFlags(program,dest,^^)


/*
* InstallScriptWithFlags:
* Generate rules to install an executable script using given
* install
 flags.
*/
#define InstallScriptWithFlags(script,dest,flags) @!\
local_install:: script    @@\
 _MakeInstallDirIgnore(dest) \ @@\
 $(INSTALL) -c -m 555 flags script $(INSTALL_PREFIX)^^^dest @!\
        @!\
local_deinstall::     @@\
 $(RM) $(INSTALL_PREFIX)^^^dest/script


/*
* InstallScript:
* Generate rules to install an executable script using any special
* install flags set in $(INSTALLFLAGS).
*/
#define InstallScript(script,dest) @!\
InstallScriptWithFlags(script,dest,^^)
```

```
/*
* InstallScripts:
* Generate rules to install all the scripts listed in the generated
*  $(SCRIPTS) and $(LSCRIPTS) macros.
*/
#define InstallScripts() @!\
|once _InstallScripts_  @!\
local_install:: $(SCRIPTS) $(LSCRIPTS)    @@\
 _MakeInstallDirIgnore($(SCRIPTDIR)) \  @@\
 for file in $(SCRIPTS) $(LSCRIPTS); do \ @@\
  (set -x; \ @@\
  $(INSTALL) -c -m 555 $$file $(INSTALL_PREFIX)$(SCRIPTDIR)) || \ @@\
  exit 1; \ @@\
 done     @!\
      @!\
local_deinstall::   @@\
 @for file in $(SCRIPTS)
 $(LSCRIPTS); do \ @@\
  case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
  (set -x; $(RM) $(INSTALL_PREFIX)$(SCRIPTDIR)/$$file); \ @@\
 done     @!\
-once

/*
* InstallManScripts:
* Generate rule to install/deinstall manual pages for scripts listed
* in the automatically generated $(SCRIPTS) macro.
*/
#define InstallManScripts() @!\
|once _InstallManScripts_ @!\
?NOMAN:|skip    @!\
local_install.man::   @@\
 _MakeInstallDirIgnore($(MANSRC)) \  @@\
 for file in $(SCRIPTS); do \   @@\
  if test -f $$file.man; then \  @@\
   (set -x; \      @@\
   $(INSTALL) -c -m 444 $$file.man \ @@\
    $(INSTALL_PREFIX)$(MANSRC)/$$file.$(L)) || \ @@\
    exit 1; \ @@\
  fi; \    @@\
 done     @!\
      @!\
local_deinstall.man::  @@\
 case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
 for file in $(SCRIPTS); do \ @@\
  (set -x; $(RM) $(INSTALL_PREFIX)$(MANSRC)/$$file.$(L)); \ @@\
 done     @!\
      @!\
```

```
-skip      @!\
-once



/*
* LinkFileList:
* Link a list of list of files from one place to another
 */
#define LinkFileList(step,list,dir,sub) @!\
step:: list       @@\
 @case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
 echo " cd" dir; cd dir; for i in list; do (set -x; $(LN) sub/$$i .); done


/*
* InstallMultipleDestFlags:
* Generate rules to install multiple files at once during a particular
* step in the build using a specific set of install flags.
*/
#define InstallMultipleDestFlags(step,list,dest,flags) @!\
step:: list       @@\
 _MakeInstallDirIgnore(dest) \ @@\
 for i in list; do \    @@\
  (set -x; $(INSTALL) -c flags \ @@\
   $$i $(INSTALL_PREFIX)^^^dest) || exit 1;\ @@\
 done

/*
* DeinstallMultipleDest:
* Generate rules to deinstall multiple files at once during a particular
* step in the build.
*/
#define DeinstallMultipleDest(step,list,dest) @!\
step::        @@\
 @case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
 for i in list; do \    @@\
  (set -x; $(RM) $(INSTALL_PREFIX)^^^dest/$$i); \ @@\
 done

/*
* InstallMultiple:
* Generate rules to install multiple
 files at once during the install
* step of the build using any install flags set in $(INSTALLFLAGS)
* and deinstall them.
*/
#define InstallMultiple(list,dest) @!\
```

```
InstallMultipleDestFlags(local_install,list,dest,$(INSTALLFLAGS)) @!\
DeinstallMultipleDest(local_deinstall,list,dest)


/*
* InstallMultipleFlags:
* Generate rules to install multiple files at once during the
* install step of the build using the given install flags.
*/
#define InstallMultipleFlags(list,dest,flags) @!\
InstallMultipleDestFlags(local_install,list,dest,flags) @!\
DeinstallMultipleDest(local_deinstall,list,dest)


/*
* InstallMultipleMan:
* Generate rules to install a variety of manual pages
* during the install.man step of the build.
*/
#define InstallMultipleMan(list,dest) @!\
InstallMultipleDestFlags(local_install.man,list,dest,$(INSTALLFLAGS)) @!\
DeinstallMultipleDest(local_deinstall.man,list,dest)


/*
* DependDependency:
* Generate rules to build the makedepend program.
*/
#define DependDependency()
    @!\
depend:: TOPDIR/mkdep    @!\
        @!\
TOPDIR/mkdep:      @!\
?TOP: @echo "You have to run Configure first."; exit 1 @!\
%TOP: @echo "You have to run Configure in $(TOP) first."; exit 1


/*
* DependTarget:
* Generate rules to compute dependencies for all files listed
* in $(SOURCES) (automatically generated macro).
*/
#define DependTarget()    @!\
+USRINC = $usrinc @!\
|once _DependTarget_    @!\
DependDependency()     @!\
        @!\
depend::       @@\
```

```
 ($(SED) '/^# DO NOT DELETE/q' Makefile && \ @@\
 $(MKDEP) $(SOURCES) | \   @@\
 $(SED) -e 's:/usr/lib[^ ]*::g; s:$(USRINC)[^ ]*::g; ' \ @@\
  -e '/: / b print' -e '$$ b print' -e 'H; d; n; : print' \ @@\
  -e 'x; s/\\$$//; s/\\\n//g; s/ ^^ */ /g; s/ :/:/;' -e '/: *$$/d' \ @@\
 ) > Makefile.new    @@\
 cp Makefile Makefile.bak  @@\
 cp Makefile.new Makefile  @@\
 $(RM) Makefile.new    @!\
        @!\
-once


/*
* CleanTarget:
* Generate rules to remove any garbage files.
*/
#define CleanTarget()    @!\
?SUBDIRS:clean:
 sub_clean local_clean    @!\
%SUBDIRS:clean: local_clean       @!\
?SUBDIRS:realclean: sub_realclean local_realclean @!\
%SUBDIRS:realclean: local_realclean     @!\
?SUBDIRS:clobber: sub_clobber local_clobber   @!\
%SUBDIRS:clobber: local_clobber      @!\
        @!\
local_clean::       @@\
 if test -f core; then $(RM) core; fi @@\
 $(RM) *~ *.o     @!\
        @!\
local_realclean:: local_clean  @!\
?TOP: $(RM) -r UU     @!\
        @!\
local_clobber:: local_realclean  @!\
%TOP: $(RM) Makefile config.sh  @!\
?TOP: $(RM) config.sh config.h  @!\
?TOP: $(RM) -r .config    @!\
?TOP: $(RM) Makefile    @!\


/*
* InstallTarget:
* Generate rules to recursively install files
*/
#define InstallTarget()           @!\
?SUBDIRS:install:: local_install sub_install     @!\
%SUBDIRS:install:: local_install        @!\
?SUBDIRS:install.man:: maybe_install.man sub_install.man  @!\
```

```
%SUBDIRS:install.man:: maybe_install.man      @!\
?SUBDIRS:deinstall:: sub_deinstall local_deinstall    @!\
%SUBDIRS:deinstall::
 local_deinstall       @!\
?SUBDIRS:deinstall.man:: sub_deinstall.man maybe_deinstall.man @!\
%SUBDIRS:deinstall.man:: maybe_deinstall.man     @!\
               @!\
?MANSRC:install.man-yes: local_install.man      @!\
install.man-no:             @!\
?MANSRC:deinstall.man-yes: local_deinstall.man     @!\
deinstall.man-no:            @!\


/*
* TagsTarget:
* Generate rules to compute tags files for C source code.
*/
#define TagsTarget()    @!\
tags::        @@\
 $(CTAGS) -w *.[ch]    @@\
 $(CTAGS) -xw *.[ch] > tags  @!\
        @!\
local_clobber::      @@\
 $(RM) tags



/*
* BuildMakefileSH:
* Generate rules to build a Makefile.SH from an Jmakefile and any
* special jmake flags.  This is generally done automatically by the
* template or by any special Jmakefiles.
* This function will simply touch Makefile.SH if no $(TOP)/.package
* exists, assuming the Jmakefile is not in a production environment.
*/
#define BuildMakefileSH(jmakeflags) @!\
Makefile.SH:
 Jmakefile     @@\
 -@if test -f $(TOP)/.package; then \ @@\
  if test -f Makefile.SH; then \ @@\
   echo " $(RM) Makefile.SH~; $(MV) Makefile.SH Makefile.SH~"; \ @@\
   $(RM) Makefile.SH~; $(MV) Makefile.SH Makefile.SH~; \ @@\
  fi; \      @@\
  echo " $(JMAKE) -DTOPDIR=$(TOP) -DCURDIR=$(CURRENT)" jmakeflags; \ @@\
  $(JMAKE) -DTOPDIR=$(TOP) -DCURDIR=$(CURRENT) jmakeflags; \ @@\
 else touch $@; fi
```

```
/*
* BuildMakefile:
* Generate rules to build a Makefile from a Makefile.SH.
*/
#define BuildMakefile() @!\
Makefile: Makefile.SH    @@\
 /bin/sh Makefile.SH


/*
* MakefileTarget:
* Generate rules to build a normal Makefile.
*/
#define MakefileTarget()  @!\
BuildMakefileSH(^^)    @!\
BuildMakefile()


/*
* NormalObjectRule:
* Generate make rule to build usual object files.
*/
#define NormalObjectRule()   @!\
|once _ObjectRule_     @!\
|rule:.c.o:       @!\
|rule: $(CC) -c $(JCFLAGS) $<  @!\
|rule:        @!\
-once

/*
* NormalLibraryObjectRule:
* Generate make rules to build
 "normal" objects.
*/
#define NormalLibraryObjectRule() @!\
|once _ObjectRule_     @!\
|rule:.c.o:       @!\
|rule: $(RM) $@      @!\
|rule: $(CC) -c $(JCFLAGS) $<  @!\
|rule:        @!\
-once

/*
* ProfiledLibraryObjectRule:
* Generate make rules to build both profiled and "normal" objects.
*/
#define ProfiledLibraryObjectRule() @!\
all::        @@\
```

```
 @if [ ! -d profiled ]; then mkdir profiled; fi @!\
        @!\
|rule:.c.o:       @!\
|rule: $(RM) $@ profiled/$@   @!\
|rule: $(CC) -pg -c $(JCFLAGS) $*.c @!\
|rule: $(MV) $*.o profiled/$*.o  @!\
|rule: $(CC) -c $(JCFLAGS) $*.c  @!\
|rule:        @!\
local_clean::       @@\
 -@if [ -d profiled ]; then echo " $(RM) profiled/?*.o"; \ @@\
  $(RM) profiled/?*.o; fi


/*
* DebuggedLibraryObjectRule:
* Generate make rules to build both debuggable and "normal"
* objects.
*/
#define DebuggedLibraryObjectRule()     @!\
all::        @@\
 @if [ ! -d debugger ]; then mkdir debugger; fi @!\
        @!\
|rule:.c.o:       @!\
|rule: $(RM) $@
 debugger/$@   @!\
|rule: $(CC) -g -c $(JCFLAGS) $*.c @!\
|rule: $(MV) $*.o debugger/$*.o  @!\
|rule: $(CC) -c $(JCFLAGS) $*.c  @!\
|rule:        @!\
local_clean::      @@\
 -@if [ -d debugger ]; then echo " $(RM) debugger/?*.o"; \ @@\
  $(RM) debugger/?*.o; fi


/*
* DebuggedAndProfiledLibraryOjbectRule:
* Generate make rules to build debuggable, profiled, and "normal"
* objects.
*/
#define DebuggedAndProfiledLibraryObjectRule() @!\
all::        @@\
 @if [ ! -d profiled ]; then mkdir profiled; fi @@\
 @if [ ! -d debugger ]; then mkdir debugger; fi @!\
         @!\
|rule:.c.o:        @!\
|rule: $(RM) $@ profiled/$@ debugger/$@ @!\
|rule: $(CC) -pg -c $(JCFLAGS) $*.c  @!\
|rule: $(MV) $*.o profiled/$*.o   @!\
```

```
|rule: $(CC) -g -c $(JCFLAGS) $*.c  @!\
|rule: $(MV) $*.o debugger/$*.o   @!\
|rule: $(CC) -c $(JCFLAGS) $*.c   @!\
|rule:        @!\
local_clean::       @@\
 -@if [ -d profiled ]; then echo " $(RM) profiled/?*.o"; \ @@\
  $(RM) profiled/?*.o; fi   @@\
 -@if [ -d debugger ];
 then echo " $(RM) debugger/?*.o"; \ @@\
  $(RM) debugger/?*.o; fi


/*
* SharedLibraryObjectRule:
* Generate make rules to build shared and "normal" object files.
*/
#define SharedLibraryObjectRule()     @!\
all::       @@\
 @if [ ! -d shared ]; then mkdir shared; fi  @!\
        @!\
|rule:.c.o:       @!\
|rule: $(RM) $@ shared/$@   @!\
|rule: $(CC) -pic -c $(SHAREDCODEDEF) $(SHLIBDEF) $(JCFLAGS) $*.c @!\
|rule: $(MV) $*.o shared/$*.o  @!\
|rule: $(CC) -c $(SHLIBDEF) $(JCFLAGS) $*.c    @!\
|rule:       @!\
local_clean::      @@\
 -@if [ -d shared ]; then echo " $(RM) shared/?*.o"; \  @@\
  $(RM) shared/?*.o; fi

/*
* SharedAndDebuggedLibraryObjectRule:
* Generate make rules to build shared, debuggable, and "normal"
* object files.
*/
#define SharedAndDebuggedLibraryObjectRule() @!\
all::         @@\
 @if [ ! -d shared ]; then mkdir shared; fi  @@\
 @if [ ! -d debugger ]; then mkdir debugger; fi @!\
          @!\
|rule:.c.o:        @!\
|rule: $(RM) $@ shared/$@ debugger/$@  @!\
|rule:
 $(CC) -pic -c $(SHAREDCODEDEF) $(SHLIBDEF) $(JCFLAGS) $*.c @!\
|rule: $(MV) $*.o shared/$*.o    @!\
|rule: $(CC) -g -c $(SHLIBDEF) $(JCFLAGS) $*.c @!\
|rule: $(MV) $*.o debugger/$*.o    @!\
|rule: $(CC) -c $(SHLIBDEF) $(JCFLAGS) $*.c @!\
```

```
|rule:         @!\
local_clean::        @@\
 -@if [ -d shared ]; then echo " $(RM) shared/?*.o"; \  @@\
  $(RM) shared/?*.o; fi    @@\
 -@if [ -d debugger ]; then echo " $(RM) debugger/?*.o"; \ @@\
  $(RM) debugger/?*.o; fi

/*
* SpecialSharedAndDebuggedObjectRule:
* Generate rules to compile a file with special flags and to make
* shared and debuggable versions.
*/
#define SpecialSharedAndDebuggedObjectRule(objs,depends,options) @!\
all::        @@\
 @if [ ! -d shared ]; then mkdir shared; fi  @@\
 @if [ ! -d debugger ]; then mkdir debugger; fi @!\
        @!\
objs: depends       @@\
 $(RM) $@ shared/$@ debugger/$@  @@\
 $(CC) -pic -c $(SHAREDCODEDEF) $(SHLIBDEF) $(JCFLAGS) options $*.c @@\
 $(MV) $*.o shared/$*.o    @@\
 $(CC)
 -g -c $(SHLIBDEF) $(JCFLAGS) options $*.c   @@\
 $(MV) $*.o debugger/$*.o   @@\
 $(CC) -c $(SHLIBDEF) $(JCFLAGS) options $*.c

/*
* SpecialSharedObjectRule:
* Generate rules to compile a file with special flags and to make
* shared and debuggable versions.
*/
#define SpecialSharedObjectRule(objs,depends,options)  @!\
all::        @@\
 @if [ ! -d shared ]; then mkdir shared; fi  @!\
        @!\
objs: depends       @@\
 $(RM) $@ shared/$@      @@\
 $(CC) -pic -c $(SHAREDCODEDEF) $(SHLIBDEF) $(JCFLAGS) options $*.c @@\
 $(MV) $*.o shared/$*.o    @@\
 $(CC) -c $(SHLIBDEF) $(JCFLAGS) options $*.c


/*
* SpecialObjectRule:
* Generate rules to compile a file with special flags.
*/
#define SpecialObjectRule(objs,depends,options)  @!\
objs: depends       @@\
```

```
 $(RM) $@       @@\
 $(CC) -c $(JCFLAGS) options $*.c


/*
* SpecialProfiledObjectRule:
* Generate rules to compile a file with special flags and to make a
* profiled version.
*/
#define SpecialProfiledObjectRule(objs,depends,options)   @!\
all::        @@\
 @if
 [ ! -d profiled ]; then mkdir profiled; fi @!\
         @!\
objs: depends       @@\
 $(RM) $@ profiled/$@    @@\
 $(CC) -pg -c $(JCFLAGS) options $*.c @@\
 $(MV) $*.o profiled/$*.o   @@\
 $(CC) -c $(JCFLAGS) options $*.c


/*
* SpecialDebuggedObjectRule:
* Generate rules to compile a file with special flags and to make a
* debuggable version.
*/
#define SpecialDebuggedObjectRule(objs,depends,options) @!\
all::        @@\
 @if [ ! -d debugger ]; then mkdir debugger; fi @!\
         @!\
objs: depends       @@\
 $(RM) $@ debugger/$@    @@\
 $(CC) -g -c $(JCFLAGS) options $*.c @@\
 $(MV) $*.o debugger/$*.o   @@\
 $(CC) -c $(JCFLAGS) options $*.c


/*
* SpecialDebuggedAndProfiledObjectRule:
* Generate rules to compile a file with special flags and to make
* debuggable and profiled versions.
*/
#define SpecialDebuggedAndProfiledObjectRule(objs,depends,options) @!\
all::        @@\
 @if [ ! -d profiled ]; then mkdir profiled; fi @@\
 @if [ ! -d
 debugger ]; then mkdir debugger; fi @!\
         @!\
```

```
objs: depends       @@\
 $(RM) $@ profiled/$@ debugger/$@ @@\
 $(CC) -pg -c $(JCFLAGS) options $*.c @@\
 $(MV) $*.o profiled/$*.o   @@\
 $(CC) -g -c $(JCFLAGS) options $*.c @@\
 $(MV) $*.o debugger/$*.o   @@\
 $(CC) -c $(JCFLAGS) options $*.c


/*
* NormalLibraryTarget:
* Generate rules to create a library. The 'srclist' and 'objlist'
* parameters are added to SOURCES and OBJECTS macros. The 'srclist'
* is not otherwise used by this rule, but is necessary for make depend.
*/
#define NormalLibraryTarget(libname,srclist,objlist) @!\
++OBJECTS objlist @!\
++SOURCES srclist @!\
NormalLibraryObjectRule()  @!\
AllTarget(lib^^libname.a)  @!\
        @!\
lib^^libname.a: objlist   @@\
 $(RM) $@     @@\
 $(AR) $@ objlist   @@\
 $(RANLIB) $@


/*
* NormalSharedLibraryTarget:
* Generate rules to create a shared library; build it into a
* different name so that the we don't hose people by having the
* library gone for long periods.
*/
#define
 NormalSharedLibraryTarget(libname,rev,solist) @!\
AllTarget(lib^^libname.so.rev) @!\
        @!\
lib^^libname.so.rev:  solist  @@\
 $(RM) $@~      @@\
 (cd shared; $(LD) -o ../$@~ -assert pure-text solist)  @@\
 $(RM) $@       @@\
 $(MV) $@~ $@

/*
* NormalSharedLibraryDataTarget:
* Generate rules to create shlib data file; build it into a
* different name so that the we don't hose people by having the
* library gone for long periods.
```

```
*/
#define NormalSharedLibraryDataTarget(libname,rev,salist) @!\
AllTarget(lib^^libname.sa.rev) @!\
        @!\
lib^^libname.sa.rev:  salist  @@\
 $(RM) $@      @@\
 $(AR) $@ salist     @@\
 $(RANLIB) $@


/*
* NormalLibraryTarget2:
* Generate rules to create a library in two steps.  This is used to
* create libraries with large numbers of files.
*/
#define NormalLibraryTarget2(libname,srclist,objlist1,objlist2) @!\
++SOURCES srclist @!\
++OBJECTS objlist1 @!\
++OBJECTS objlist2 @!\
NormalLibraryObjectRule()   @!\
AllTarget(lib^^libname.a)   @!\
        @!\
lib^^libname.a:
 objlist1 objlist2 @@\
 $(RM) $@      @@\
 $(AR) $@ objlist1    @@\
 $(AR) $@ objlist2    @@\
 $(RANLIB) $@


/*
* ProfiledLibraryTarget:
* Generate rules to create a profiled library.
*/
#define ProfiledLibraryTarget(libname,srclist,objlist) @!\
++SOURCES srclist @!\
++OBJECTS objlist @!\
AllTarget(lib^^libname^^_p.a)  @!\
        @!\
lib^^libname^^_p.a: objlist   @@\
 $(RM) $@      @@\
 cd profiled; $(AR) ../$@ objlist @@\
 $(RANLIB) $@


/*
* DebuggedLibraryTarget:
* Generate rules to create a debuggable library.
```

```
*/
#define DebuggedLibraryTarget(libname,srclist,objlist) @!\
++SOURCES srclist @!\
++OBJECTS objlist @!\
AllTarget(lib^^libname^^_d.a)  @!\
        @!\
lib^^libname^^_d.a: objlist   @@\
 $(RM) $@       @@\
 cd debugger; $(AR) ../$@ objlist @@\
 $(RANLIB) $@


/*
* AliasedLibraryTarget:
* Generate rules to link one library to another.
*/
#define AliasedLibraryTarget(libname,alias) @!\
AllTarget(lib^^alias.a)   @!\
        @!\
lib^^alias.a:
 lib^^libname.a @@\
 $(RM) $@     @@\
 $(LN) lib^^libname.a $@


/*
* PrelinkedRelocatableTarget:
* Generate rules to produce a relocatable object file instead of a
* library.
*/
#define PrelinkedRelocatableTarget(objname,objlist,libs) @!\
AllTarget(objname.o)    @!\
        @!\
objname.o: objlist     @@\
 $(RM) $@      @@\
 $(LD) $(JLDFLAGS) -r objlist -o $@ libs


/*
* NormalObjectTarget:
* Generate rules to produce a single object file.o from a file.c.
*/
#define NormalObjectTarget(file) @!\
++SOURCES file^^.c     @!\
AllTarget(file^^.o)     @!\
NormalObjectRule()

/*
```

```
* NormalRelocatableTarget:
* Generate rules to produce a relocatable object file instead of a
* library.
*/
#define NormalRelocatableTarget(objname,objlist) @!\
AllTarget(objname.o)    @!\
        @!\
objname.o: objlist     @@\
 $(RM) $@      @@\
 $(LD) $(JLDFLAGS) -r objlist -o $@


/*
* ProfiledRelocatableTarget:
* Generate rules to produce a profiled relocatable object file
* instead
 of a library.
*/
#define ProfiledRelocatableTarget(objname,objlist) @!\
AllTarget(objname^^_p.o)  @!\
       @!\
objname^^_p.o: objlist   @@\
 $(RM) $@     @@\
 $(LD) -X -r objlist -o $@


/*
* DebuggedRelocatableTarget:
* Generate rules to produce a debuggable relocatable object file
* instead of a library.
*/
#define DebuggedRelocatableTarget(objname,objlist) @!\
AllTarget(objname^^_d.o)  @!\
       @!\
objname^^_d.o: objlist   @@\
 $(RM) $@     @@\
 $(LD) -X -r objlist -o $@

/*
* LintLibraryTarget:
* Generate rules to create a lint library.  Note that the lint
* library is always forced to be newer than the library itself.
*/
#define LintLibraryTarget(libname,srclist) @!\
lintlib:: llib-l^^libname.ln @!\
       @!\
llib-l^^libname.ln: srclist  @@\
 $(RM) $@     @@\
```

```
 $(LINT) $(LINTLIBFLAG)^^libname $(LINTFLAGS) srclist


/*
* NormalLintTarget:
* Generate rules to lint a set of sources.
*/
#define NormalLintTarget(srclist) @!\
lint:       @@\
 $(LINT) $(LINTFLAGS) srclist
 $(LINTLIBS)


/*
* LintTarget:
* Generate rules to lint $(SOURCES) (automatically generated)
*/
#define LintTarget()   @!\
|once _LintTarget_    @!\
NormalLintTarget($(SOURCES)) @!\
-once


/*
* LinkSourceFile:
* Snag source file from some other directory
*/
#define LinkSourceFile(src,dir)  @!\
src:  dir/src   @@\
 $(RM) $@   @@\
 $(LN) $? $@   @!\


/*
* MakeSubincludesForBuild:
* Make includes in sub directories.
*/
#define MakeSubincludesForBuild(step,dir,srclist) @!\
step::  dir srclist        @@\
 @-(list=`echo srclist | sed -e 's/[^ ]*\//g'`; \  @@\
  set -x; cd dir; $(RM) $$list)   @@\
 @for i in srclist; do \      @@\
  (set -x; cd dir; $(LN) ../$$i .) || exit 1; \  @@\
 done          @!\
           @!\
MakeDirectories(dir,dir)      @!\
           @!\
local_realclean::         @@\
```

```
 @-(if [ -d dir ]; then \     @@\
  list=`echo srclist | sed -e 's/[^ ]*\//g'`; \  @@\
  set -x; cd dir; $(RM) $$list; fi)


/*
* CommonSubdirsRule:
* Rule for making $(TARGET) in
 every subdirectory, with $(VERB) as
* verbose message and $(FLAGS) as additional flags.
*/
#define CommonSubdirsRule(dirs) @!\
subdirs:       @@\
 @case '${MFLAGS}' in *[ik]*) set +e;; esac; \   @@\
 for i in dirs ;\     @@\
 do \        @@\
  (cd $$i ; echo $(VERB) "in $(DIR)$$i..."; \  @@\
   $(MAKE) $(MFLAGS) $(FLAGS) $(TARGET)) || exit 1; \ @@\
 done


/*
* NamedTargetSubdirsRule:
* Recursively make a series of steps in the specified directories.
*/
#define NamedTargetSubdirsRule(dirs,name,verb,flags) @!\
name::         @@\
 @case '${MFLAGS}' in *[ik]*) set +e;; esac; \  @@\
 for i in dirs ;\     @@\
 do \        @@\
  (cd $$i ; echo verb "in $(DIR)$$i..."; \ @@\
   $(MAKE) $(MFLAGS) flags name) || exit 1; \ @@\
 done


/*
* NamedTargetSubdirs:
* Recursively make a series of steps.
*/
#define NamedTargetSubdirs(name,verb,flags)  @!\
name::          @@\
 @$(MAKE) subdirs TARGET=name VERB=verb FLAGS=flags


/*
* NamedSubTargetSubdirs:
* Recursively make a series of steps,
```

```
 like NamedTargetSubdirs.
* However, the supplied "name" has "sub_" prefixed to it.
*/
#define NamedSubTargetSubdirs(name,verb,flags) @!\
sub_^^^name::          @@\
 @$(MAKE) subdirs TARGET=name VERB=verb FLAGS=flags

/*
* NamedDepthTargetSubdirs:
* Recursively make a series of steps. We first enter the
* subdirectories, then perform the local entries.
* The supplied "name" has "sub_" prefixed to it.
*/
#define NamedDepthTargetSubdirs(name,verb,flags)  @!\
sub_^^^name::      @@\
 @$(MAKE) subdirs TARGET=name VERB=verb FLAGS=flags @@\
 @echo "Back to $(CURRENT) for "name^^...


/*
* MakeSubdirs:
* Generate rules to do makes in the given subdirectories.
*/
#define MakeSubdirs() \
NamedTargetSubdirs(all,"Making all",^^)


/*
* DependDirs:
* Generate rules to recursively compute dependencies as part of the
* make depend step.
*/
#define DependDirs(dirs) \
NamedTargetSubdirsRule(dirs,depend,"Depending",^^)


/*
* DependSubdirs:
* Generate rules to recursively compute dependencies
 as part of the
* make depend step.
*/
#define DependSubdirs() \
DependDirs($(SUBDIRS))


/*
* InstallSubdirs:
```

```
* Generate rules to recursively install and deinstall programs and
* files.
*/
#define InstallSubdirs() \
NamedSubTargetSubdirs(install,"Installing",^^) @!\
NamedDepthTargetSubdirs(deinstall,"Deinstalling",^^)


/*
* InstallManSubdirs:
* Generate rules to recursively install and deinstall manual pages.
*/
#define InstallManSubdirs() \
NamedSubTargetSubdirs(install.man,"Installing man pages",^^) @!\
NamedDepthTargetSubdirs(deinstall.man,"Deinstalling man pages",^^)


/*
* IncludesSubdirs:
* Generate rules to recursively put include files in build
*/
#define IncludesSubdirs() \
NamedTargetSubdirs(includes,including,^^)


/*
* CleanSubdirs:
* Generate rules to recursively clean out garbage files.
*/
#define CleanSubdirs() \
NamedDepthTargetSubdirs(clean,"Cleaning",^^) @!\
NamedDepthTargetSubdirs(realclean,"Real cleaning",^^) @!\
NamedDepthTargetSubdirs(clobber,"Clobbering",^^)


/*
 * TagSubdirs:
* Generate rules to recursively create tags files.
*/
#define TagSubdirs(dirs) \
NamedTargetSubdirsRule(dirs,tag,"Tagging",^^)

/*
* MakeLintSubdirs:
* Generate rules to recursively lint directories as part of the
* named step.
*/
#define MakeLintSubdirs(dirs,target) \
```

```
NamedTargetSubdirsRule(dirs,target,"Linting",^^)


/*
* LintDirs:
* Generate rules to recursively lint directories as part of the
* make lint step.
*/
#define LintDirs(dirs) \
MakeLintSubdirs(dirs,lint)


/*
* LintSubdirs:
* Generate rules to recursively lint directories as part of the
* make lint step.
*/
#define LintSubdirs() \
LintDirs($(SUBDIRS))


/*
* MakeDirs:
* Creates a set of directories, even if some directories in the path
* do not already exist. There should be no '@!' at the end of the
* '#define' line, because this macro is used *inside* building rules.
*/
#define MakeDirs(dirs) \
 @case '${MFLAGS}' in *[i]*) set +e;; esac; \   @@\
 for dir in dirs;
 do \         @@\
  (set -x; test -d $$dir || $(INSTALLDIR) $$dir) || \ @@\
  exit 1; \  @@\
 done

/*
* _MakeInstallDirs:
* Creates a set of intall directories, even if some directories in the path
* do not already exist. There should be no '@!' at the end of the
* '#define' line, because this macro is used *inside* building rules.
*/
#define _MakeInstallDirs(dirs) \
 @case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
 for dir in dirs; do \       @@\
  _MakeInstallDir($$dir) \     @@\
 done

/*
```

```
* _MakeInstallDir:
* Internal macro to create a missing install directory.
*/
#define _MakeInstallDir(dir) \
 (set -x; test -d $(INSTALL_PREFIX)^^^dir || \ @@\
  $(INSTALLDIR) $(INSTALL_PREFIX)^^^dir);

/*
* _MakeInstallDirIgnore:
* Same as _MakeInstallDir but handles "make -i" as well.
*/
#define _MakeInstallDirIgnore(dir) \
 @case '${MFLAGS}' in *[i]*) set +e;; esac;  \ @@\
 _MakeInstallDir(dir)

/*
* _RmInstallDirs:
* Removes a set of intall directories.
* There should be no '@!'
 at the end of the '#define' line, because this
* macro is used *inside* building rules.
*/
#define _RmInstallDirs(dirs) \
 @case '${MFLAGS}' in *[i]*) set +e;; esac; \ @@\
 for dir in dirs; do \       @@\
  (set -x; test -d $$dir && $(RM) -r $(INSTALL_PREFIX)$$dir); \ @@\
 done

/*
* MakeDirectories:
* Generate rules to create a hierarchy of directories.
*/
#define MakeDirectories(step,dirs)  @!\
step::         @@\
 MakeDirs(dirs)


/*
* MakeInstallDirectories:
* Generate a rule to create a set of directories at installation
* time (removed by deinstall).
*/
#define MakeInstallDirectories(dirs) @!\
local_install::    @@\
 _MakeInstallDirs(dirs) @!\
       @!\
local_deinstall::   @@\
 _RmInstallDirs(dirs)
```

```
/*
* MakeLintLibSubdirs:
* Generate rules to recursively create lint libraries.
*/
#define MakeLintLibSubdirs(dirs) @!\
MakeLintSubdirs(dirs,lintlib)


/*
* MakeMakeSubdirs:
* Generate rules to recursively recreate target as part of the
* specified step in the build.
  This assumes Makefile.SH has
* already been built (which is the case for a delivery), but does
* not rely on the existence of a Makefile.
*/
#define MakeMakeSubdirs(target) @!\
target::        @@\
 @case '${MFLAGS}' in *[ik]*) set +e;; esac; \ @@\
 for i in $(SUBDIRS);\    @@\
 do \        @@\
  echo "Making "target" in $(DIR)$$i..."; \ @@\
  (cd $$i || exit 1; \   @@\
  if test ! -f Makefile; then /bin/sh Makefile.SH; fi; \ @@\
  $(MAKE) $(MFLAGS) target) || exit 1;\ @@\
 done


/*
* MakeMakefilesSH:
* Generate rules to recursively recreate target as part of the
* specified step in the build.  If $(TOP) is set to an absolute
* path, don't prepend the ../ prefix.  This makes running things
* outside of the source tree to be much easier.
*/
#define MakeMakefilesSH()  @!\
Makefiles.SH:: Makefile.SH    @@\
 @case '${MFLAGS}' in *[ik]*) set +e;; esac; \ @@\
 for i in $(SUBDIRS);\     @@\
 do \        @@\
  case "$(DIR)$$i/" in \        @@\
  ^^*^^/^^*^^/^^*^^/^^*^^/) newtop=../../../..;;
 \ @@\
  ^^*^^/^^*^^/^^*^^/) newtop=../../..;; \    @@\
  ^^*^^/^^*^^/) newtop=../..;; \      @@\
  *^^/) newtop=..;; \         @@\
```

```
  esac; \            @@\
  case "$(TOP)" in \    @@\
  /^^*) newtop="$(TOP)" ;; \  @@\
  esac; \       @@\
  echo "Making Makefiles.SH in $(DIR)$$i..."; \ @@\
  (cd $$i || exit 1; \   @@\
   if test -f Jmakefile; then \ @@\
    $(MAKE) $(MFLAGS) -f ../Makefile \ @@\
     Makefile TOP=$$newtop CURRENT=$(DIR)$$i && \  @@\
    $(MAKE) $(MFLAGS) Makefiles.SH; \ @@\
   fi; \      @@\
  ) || exit 1; \ @@\
 done


/*
* MakefileSubdirs:
* Generate rules to create Makefiles.
*/
#define MakefileSubdirs()  @!\
MakeMakeSubdirs(Makefiles)  @!\
MakeMakefilesSH()


/*
* CppScriptTarget:
* Generate rules to create a shell script by running the input
* through cpp.
*/
#define CppScriptTarget(dst,src,defs,deplist) @!\
dst::  src deplist      @@\
 $(RM) $@       @@\
 $(CPP) defs <src | \    @@\
  sed -e '/^#  *[0-9][0-9]*  *.*$$/d' >$@  @@\
 chmod a+x $@


/*
 * MakeScriptFromCpp:
* Generate rules to create a script from a file with a
* .cpp suffix.
*/
#define MakeScriptFromCpp(name,defs) @!\
CppScriptTarget(name,name.cpp,defs,^^)


/*
* ShellScriptTargetExt:
```

```
* Generate rules to create and install a set of scripts from
* ext files (.sh and .SH are the most common examples). Man pages
* derived from the name of the scripts are also installed unless
* NoManPages() is specified.
*/
#define ShellScriptTargetExt(scripts,ext) @!\
++SCRIPTS scripts @!\
SimpleShellScriptTargetExt(scripts,ext)  @!\
InstallScripts()       @!\
InstallManScripts()


/*
* ShellScriptTarget:
* Generate rules to create and install a set of scripts from
* .SH files. Man pages derived from the name of the scripts are
* also installed unless NoManPages() is specified.
*/
#define ShellScriptTarget(scripts) @!\
ShellScriptTargetExt(scripts,.SH)


/*
* SimpleShellScriptTargetExt:
* Generate rules to create a set of scripts from ext files where
* ext is usually
 something like .sh or .SH, or whatever file
* extension you like..
*/
#define SimpleShellScriptTargetExt(scripts,ext) @!\
AllTarget(scripts)   @!\
       @!\
|expand s!scripts!   @!\
!s: !s^^ext     @@\
 /bin/sh !s^^ext   @!\
       @!\
-expand


/*
* SimpleShellScriptTarget:
* Generate rules to create a set of scripts from .SH files.
*/
#define SimpleShellScriptTarget(scripts) @!\
SimpleShellScriptTargetExt(scripts,.SH)


/*
```

```
* ShellScriptLongTarget:
* Generate rules to create a set of scripts from .SH files where
* the name of the generated file is different from the basename of
* the .SH file (when, for instance, the total length with the .SH
* extension would not leave enough space for RCS ,v extension).
*/
#define ShellScriptLongTarget(basename,scriptname) @!\
++LSCRIPTS scriptname @!\
AllTarget(scriptname)  @!\
	@!\
scriptname: basename^^.SH @@\
 /bin/sh basename^^.SH @!\
	@!\
InstallScripts()   @!\
?NOMAN:|skip    @!\
InstallManPageLong(basename,$(MANSRC),scriptname) @!\
-skip


/*
 * ForceTarget:
* The force target will force reconstruction of all the other
* targets which include .FORCE in their own dependencies.
*/
#define ForceTarget() @!\
|once _force_   @!\
.FORCE:     @!\
	@!\
-once


/*
* RemoteTargetDependency:
* A local target may rely on a remote dependency (e.g. a library)
* made in a separate directory. This rule explicits the dependency
* and forces a make of that dependency in the remote directory.
*/
#define RemoteTargetDependency(target,directory,dependency) @!\
RemoteDependency(directory,dependency) @!\
target: directory/^^^dependency @!\


/*
* RemoteDependency:
* Specify rules for making a remote dependency.
*/
#define RemoteDependency(directory,dependency) @!\
ForceTarget()       @!\
```

```
|once =directory/^^^dependency=   @!\
directory/^^^dependency: .FORCE   @@\
 @echo "Checking "^^^dependency" in "^^^directory"..." @@\
 cd ^^^directory; $(MAKE) ^^^dependency @@\
 @echo "Continuing in $(CURRENT)..." @!\
    @!\
-once

/*
 * SetSubdirs:
* Actually forces the definition of SUBDIRS, and lets the user
* specify what the sub-directories are.  This will be added to the
* customization part.
*/
#define SetSubdirs(subdirs) @!\
>SUBDIRS @!\
+SUBDIRS = subdirs


/*
* NoManPages:
* Actually forces the definition of NOMAN, which tells the jmake
* program to not generate rules for installing manual pages.
*/
#define NoManPages() @!\
>NOMAN


/*
* Expand:
* This powerful macro expands the `rule' given a `pattern'. It
* relies on a built-in command in jmake. The expansion is
* documented in the short notes file that comes with jmake and
* gives some insights on the internal syntax.
*/
#define Expand(rule, pattern) @!\
|expand pattern @!\
rule @!\
-expand


/*
* Lex and yacc stuff.
*/

/*
* YaccRule:
* This is the rule which is used to build a .c file from a .y file.
```

```
*/
#define YaccRule() @!\
AddSuffix(.y)     @!\
|once _YaccRule_    @!\
|rule:.y.c:      @!\
|rule: $(YACC) $(JYFLAGS)
 $< @!\
|rule: $(MV) y.tab.c $@   @!\
|rule:       @!\
-once

/*
* SimpleYaccTarget:
* Declare a yacc base.y file to be used in the building of the
* specified target program. The source file must be given without
* its final .y extension. The name of the .c and .o will be
* derived from the source file basename provided.
*/
#define SimpleYaccTarget(program,base) @!\
++SOURCES base.y @!\
++OBJECTS base.o @!\
YaccRule()    @!\
program: base.c   @!\
     @!\
local_realclean::  @@\
 $(RM) base.c  @!\


/*
* ComplexYaccTarget:
* Declare a yacc base.y file to be used in the building of the
* specified target program. The source file must be given without
* its final .y extension. The name of the .c and .o will be
* derived from the source file basename provided.
* The difference with SimpleYaccTarget is the identifying process
* where all the 'yy' are replaced by the specified prefix.
*/
#define ComplexYaccTarget(program,base,prefix) @!\
++SOURCES base.y @!\
++OBJECTS base.o
 @!\
program: base.c   @!\
     @!\
base.c: base.y     @@\
 $(YACC) $(JYFLAGS) base.y @@\
 $(SED) -e 's/yy\(.\)/prefix\1/g' < y.tab.c > base.c @@\
 $(SED) -e 's/yy\(.\)/prefix\1/g' < y.tab.h > base.h @@\
 $(RM) y.tab.c y.tab.h @!\
```

```
      @!\
local_realclean::  @@\
 $(RM) base.c  @!\


/*
* SimpleYaccInclude:
* Declare that program will need an include file produced by
* the output of yacc on base.y, which typically produces a file
* named y.tab.h, which will be renamed as base.h.
* The only problem is that the dependencies towards base.h have
* to be manually given in the Jmakefile.
*/
#define SimpleYaccInclude(base) @!\
base.h: base.c  @@\
 @if test -f y.tab.h; then \ @@\
  echo " $(MV) y.tab.h $@"; \ @@\
  $(MV) y.tab.h $@; \  @@\
 fi       @!\
       @!\
local_realclean::    @@\
 $(RM) base.h

/*
* ComplexYaccInclude:
* Declare that program will need an include file produced by
* the output of yacc on base.y, which typically produces a file
* named y.tab.h, which will
 be renamed as base.h.
* The difference with SimpleYaccInclude is the identifying process
* of the y.tab.h file where all 'yy' are renamed to prefix.
* The only problem is that the dependencies towards base.h have
* to be manually given in the Jmakefile.
*/
#define ComplexYaccInclude(base,prefix) @!\
base.h: base.c  @@\
 @if test -f y.tab.h; then \ @@\
  echo " $(SED) -e 's/yy\(.\)/prefix\1/g' < y.tab.h > base.h"; \ @@\
  $(SED) -e 's/yy\(.\)/prefix\1/g' < y.tab.h > base.h; \ @@\
  echo " $(RM) y.tab.h"; \ @@\
  $(RM) y.tab.h; \  @@\
 elif test -f base.h; then \ @@\
  echo " $(CP) base.h base.ht"; \ @@\
  $(CP) base.h base.ht; \ @@\
  echo " $(SED) -e 's/yy\(.\)/prefix\1/g' < base.ht > base.h"; \ @@\
  $(SED) -e 's/yy\(.\)/prefix\1/g' < base.ht > base.h; \ @@\
  echo " $(RM) base.ht"; \ @@\
  $(RM) base.ht; \  @@\
```

```
 fi       @!\
        @!\
local_realclean::    @@\
 $(RM) base.h


/*
* NormalYaccTarget:
* Declare a yacc base.y file which should produce a base.c and
* base.h file
 as derived from the output of yacc, to be used by
* the specified program.
*/
#define NormalYaccTarget(program,base) @!\
SimpleYaccTarget(program,base) @!\
SimpleYaccInclude(base)


/*
* IdentifiedYaccTarget:
* Declare a yacc base.y file which should produce a base.c and
* base.h file as derived from the output of yacc, to be used by
* the specified program. The specified prefix is used to remplace
* all the 'yy' in the generated file, for use when more than a
* single parser is needed in one executable.
*/
#define IdentifiedYaccTarget(program,base,prefix) @!\
ComplexYaccTarget(program,base,prefix) @!\
ComplexYaccInclude(base,prefix)


/*
* SimpleLexTarget:
* This declares a lex base.l file which is to be ran through
* lex to produce a base.c file.
*/
#define SimpleLexTarget(program,base) @!\
++SOURCES base.l @!\
++OBJECTS base.o @!\
|once _LexRule_     @!\
|rule:.l.c:      @!\
|rule: $(LEX) $(JLFLAGS) $<  @!\
|rule: $(MV) lex.yy.c $@  @!\
|rule:       @!\
-once       @!\
AddSuffix(.l)   @!\
program:
```

```
 base.c   @!\
     @!\
local_realclean::  @@\
 $(RM) base.c  @!\


/*
* IdentifiedLexTarget:
* This declares a lex base.l file which is to be ran through
* lex to produce a base.c file. The prefix is used to replace
* the 'yy', so that the lexical analyzer may be identified.
*/
#define IdentifiedLexTarget(program,base,prefix) @!\
++SOURCES base.l @!\
++OBJECTS base.o @!\
program: base.c   @!\
     @!\
base.c: base.l     @@\
 $(LEX) $(JLFLAGS) base.l @@\
 $(SED) -e 's/yy\(.\)/prefix\1/g' < lex.yy.c > base.c @@\
 $(RM) lex.yy.c    @!\
     @!\
local_realclean::  @@\
 $(RM) base.c  @!\


/*
* NormalLexDependTarget:
* Declare that program will need an include file produced by
* the output of lex on base.l, which typically produces a file
* named lex.yy.c which will be renamed as base.c. Besides, the
* lexical analyzer needs the file parser.h produced by running
* parser.y through yacc and renaming y.tab.h as parser.h.
*/
#define NormalLexDependTarget(program,base,parser)
 @!\
base.o: parser.h @!\
    @!\
SimpleLexTarget(program,base)


/*
* IdentifiedLexDependTarget:
* Declare that program will need an include file produced by
* the output of lex on base.l, which typically produces a file
* named lex.yy.c which will be renamed as base.c. Besides, the
* lexical analyzer needs the file parser.h produced by running
* parser.y through yacc and renaming y.tab.h as parser.h.
```

```
* The lexical analyzer is identified with the supplied prefix,
* which replaces the regular 'yy' prefix in the symbol names.
*/
#define IdentifiedLexDependTarget(program,base,parser,prefix) @!\
base.o: parser.h @!\
    @!\
IdentifiedLexTarget(program,base,prefix)


/*
* NormalParserTarget:
* Specify that program is using the lex/yacc combination to
* produce a parser. The lexic and parser parameters are the
* base name of the .l and .y file, respectively.
*/
#define NormalParserTarget(program,lexic,parser) @!\
NormalLexDependTarget(program,lexic,parser)
 @!\
NormalYaccTarget(program,parser)


/*
* IdentifiedParserTarget:
* Specify that program is using the lex/yacc combination to
* produce a parser. The lexic and parser parameters are the
* base name of the .l and .y file, respectively. The parser
* produced is identified via its prefix, which replaces all
* the normally supplied 'yy' prefix, hence making it possible
* to have multiple parsers in a single executable.
*/
#define IdentifiedParserTarget(program,lexic,parser,prefix) @!\
IdentifiedLexDependTarget(program,lexic,parser,prefix) @!\
IdentifiedYaccTarget(program,parser,prefix)
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/files/Jmake.rules
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_voidsig.U,v 3.0.1.3 1995/05/12 12:12:46 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
?RCS: $Log: d_voidsig.U,v $
?RCS: Revision 3.0.1.3  1995/05/12  12:12:46  ram
?RCS: patch54: made cppflags dependency optional
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:20:35  ram
?RCS: patch32: now sets signal_t only once d_voidsig is known (WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:59:54  ram
?RCS: patch30: now properly sets signal_t when re-using previous value
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_voidsig
 signal_t: rm contains cppstdin cppminus +cppflags test Myread \
 Oldconfig Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_voidsig:
?S: This variable conditionally defines VOIDSIG if this system
?S: declares "void (*signal(...))()" in signal.h.  The old way was to
?S: declare it as "int (*signal(...))()".
?S:.
?S:signal_t:
?S: This variable holds the type of the signal handler (void or int).
?S:.
?C:VOIDSIG:
?C: This symbol is defined if this system declares "void (*signal(...))()" in
?C: signal.h.  The old way was to declare it as "int (*signal(...))()".  It
?C: is up to the package author to declare things correctly based on the
?C: symbol.
?C:.
?C:Signal_t (SIGNAL_T):
?C: This symbol's value is either "void" or "int", corresponding to the
?C: appropriate return type of a signal handler.  Thus, you can declare
?C: a signal handler using "Signal_t (*handler)()", and define the
?C: handler using "Signal_t handler(sig)".
?C:.
?H:#$d_voidsig VOIDSIG /**/
?H:#define
 Signal_t $signal_t /* Signal handler's return type */
?H:.
?T:xxx
?LINT:set d_voidsig
: see if signal is declared as pointer to function returning int or void
echo " "
xxx=`./findhdr signal.h`
$test "$xxx" && $cppstdin $cppminus $cppflags < $xxx >$$.tmp 2>/dev/null
```

```
if $contains 'int.*\*[  ]*signal' $$.tmp >/dev/null 2>&1 ; then
 echo "You have int (*signal())() instead of void." >&4
 val="$undef"
elif $contains 'void.*\*[  ]*signal' $$.tmp >/dev/null 2>&1 ; then
 echo "You have void (*signal())()." >&4
 val="$define"
elif $contains 'extern[  ]*[(\*]*signal' $$.tmp >/dev/null 2>&1 ; then
 echo "You have int (*signal())() instead of void." >&4
 val="$undef"
?X: This next test is kind of sloppy, but it catches Linux
?X: which has a
?X:  typedef void (*__sighandler_t)  (int)  ;
?X: A better fix would be to compile a C program with the proper
?X: prototype, but since nearly everyone uses void, we'll just go with
?X: this.
elif $contains 'void.*\*.*sig' $$.tmp >/dev/null 2>&1 ; then
 echo "You
 have void (*signal())()." >&4
 val="$define"
else
 case "$d_voidsig" in
 ")
 echo "I can't determine whether signal handler returns void or int..." >&4
  dflt=void
  rp="What type does your signal handler return?"
  . ./myread
  case "$ans" in
  v*) val="$define";;
  *) val="$undef";;
  esac;;
 "$define")
  echo "As you already told me, signal handler returns void." >&4
  val="$define"
  ;;
 *) echo "As you already told me, signal handler returns int." >&4
  val="$undef"
  ;;
 esac
fi
set d_voidsig
eval $setvar
case "$d_voidsig" in
"$define") signal_t="void";;
*) signal_t="int";;
esac
$rm -f $$.tmp
```

Found in path(s):

* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_voidsig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Extras.U,v$
?RCS:
?RCS: Copyright (c) 2001, Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:extras: Myread Oldconfig Setvar rm
?MAKE: -pick add $@ %<
?Y:TOP
?S:extras:
?S: This variable holds a list of extra modules to install.
?S:.
: See if we want extra modules installed
echo " "
case "$extras" in
") dflt='n';;
*) dflt='y';;
esac
cat <<EOM
Perl can be built with extra modules or bundles of modules which
will be fetched from the CPAN and installed alongside Perl.

Notice that you will need access to the CPAN; either via the Internet,
or a local copy, for example a CD-ROM or a local CPAN mirror.  (You will
be asked later to configure the CPAN.pm module which will in turn do
the installation of the rest of the extra modules or bundles.)

Notice also that if the modules require
 any external software such as
libraries and headers (the libz library and the zlib.h header for the
Compress::Zlib module, for example) you MUST have any such software
already installed, this configuration process will NOT install such
things for you.

If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp='Install any extra modules (y or n)?'
. ./myread
case "$ans" in
y|Y)
 cat <<EOM

Please list any extra modules or bundles to be installed from CPAN,
```

```
with spaces between the names.  The names can be in any format the
'install' command of CPAN.pm will understand.  (Answer 'none',
without the quotes, to install no extra modules or bundles.)
EOM
 rp='Extras?'
 dflt="$extras"
 . ./myread
 extras="$ans"
esac
case "$extras" in
"|'none')
 val=''
 $rm -f ../extras.lst
 ;;
*) echo "(Saving the list of extras for later...)"
 echo "$extras" > ../extras.lst
 val="'$extras'"
 ;;
esac
set extras
eval $setvar
echo " "
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/Extras.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Options.U,v $
?RCS: Revision 3.0.1.7  1997/02/28  15:08:15  ram
?RCS: patch61: optdef.sh now starts with a "startsh"
?RCS: patch61: moved some code from Head.U
?RCS:
?RCS: Revision 3.0.1.6  1995/09/25  09:14:46  ram
?RCS: patch59: protected option parsing code against 'echo -*' option failure
?RCS:
?RCS: Revision 3.0.1.5  1995/05/12  12:04:52  ram
?RCS: patch54: added -K option for experts
```

```
?RCS:
?RCS: Revision 3.0.1.4  1995/01/30  14:27:52  ram
?RCS: patch49: this unit now exports file optdef.sh,
 not a variable
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:19:00  ram
?RCS: patch45: new -O option allowing -D and -U to override config.sh settings
?RCS: patch45: file optdef.sh is no longer removed after sourcing
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  15:58:06  ram
?RCS: patch36: ensure option definition file is removed before appending
?RCS: patch36: protect variable definitions with spaces in them
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:55:44  ram
?RCS: patch30: now uses new me symbol to tag error messages
?RCS: patch30: new -D and -U options to define/undef symbols (JHI)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Command line parsing. It is really important that the variables used here
?X: be not listed in the MAKE line, or they will be saved in config.sh and
?X: loading this file to fetch default answers would clobber the values set
?X: herein.
?X:
?MAKE:Options: startsh
?MAKE: -pick wipe $@ %<
?V:reuseval
 alldone error realsilent silent extractsh fastread \
 override knowitall: config_sh
?T:arg argn symbol config_arg0 config_args config_argc xxx yyy zzz uuu
?T:args_exp args_sep arg_exp
?F:!Configure
?F:./optdef.sh ./cmdline.opt ./posthint.sh ./cmdl.opt
: Save command line options in file UU/cmdline.opt for later use in
: generating config.sh.
?X: This temporary file will be read by Oldsym.U.  I used a temporary
?X: file to preserve all sorts of potential command line quotes and
?X: also because we don't know in advance how many variables we'll
?X: need, so I can't actually declare them on the MAKE line.
?X: The config_args variable won't be quite correct if Configure is
?X: fed something like    ./Configure -Dcc="gcc -B/usr/ccs/bin/"
?X: since the quotes are gone by the time we see them.  You'd have to
?X: reconstruct the command line from the config_arg? lines, but since
?X: I don't imagine anyone actually having to do that, I'm not going
?X: to worry too much.
cat > cmdline.opt
```

```
 <<EOSH
: Configure command line arguments.
config_arg0='$0'
config_args='$*'
config_argc=$#
EOSH
argn=1
args_exp=''
args_sep=''
for arg in "$@"; do
 cat >>cmdline.opt <<EOSH
config_arg$argn='$arg'
EOSH
?X: Extreme backslashitis: replace each ' by '''''
 cat <<EOC | sed -e "s/'/'''''''''''''/g" > cmdl.opt
$arg
EOC
 arg_exp=`cat cmdl.opt`
 args_exp="$args_exp$args_sep'$arg_exp'"
 argn=`expr $argn + 1`
 args_sep=' '
done
?X: args_exp is good for restarting self: eval "set X $args_exp"; shift; $0 "$@"
?X: used by hints/os2.sh in Perl, for instance
rm -f cmdl.opt

: produce awk script to parse command line options
cat >options.awk <<'EOF'
BEGIN {
 optstr = "A:dD:eEf:hKOrsSU:V"; # getopt-style specification

 len = length(optstr);
 for (i = 1; i <= len; i++) {
  c = substr(optstr, i, 1);
?X: some older awk's do not have the C ?: construct
  if (i < len) a = substr(optstr, i + 1, 1); else a = "";
  if (a == ":") {
   arg[c] = 1;
   i++;
  }
  opt[c] = 1;
 }
}
{
 expect = 0;
 str = $0;
 if (substr(str,
```

```
 1, 1) != "-") {
  printf("'%s'\n", str);
  next;
 }
 len = length($0);
 for (i = 2; i <= len; i++) {
  c = substr(str, i, 1);
  if (!opt[c]) {
   printf("-%s\n", substr(str, i));
   next;
  }
  printf("-%s\n", c);
  if (arg[c]) {
   if (i < len)
    printf("'%s'\n", substr(str, i + 1));
   else
    expect = 1;
   next;
  }
 }
}
END {
 if (expect)
  print "?";
}
EOF

: process the command line options
?X: Use "$@" to keep arguments with spaces in them from being split apart.
?X: For the same reason, awk will output quoted arguments and the final eval
?X: removes them and sets a proper $* array. An 'X' is prependend to each
?X: argument before being fed to echo to guard against 'echo -x', where -x
?X: would be understood as an echo option! It is removed before feeding awk.
set X `for arg in "$@"; do echo "X$arg"; done |
 sed -e s/X// | awk -f options.awk`
eval "set $*"
shift
rm -f options.awk

: set up default values
fastread=''
reuseval=false
config_sh=''
alldone=''
error=''
silent=''
extractsh=''
override=''
```

```
knowitall="
rm
 -f optdef.sh posthint.sh
cat >optdef.sh <<EOS
$startsh
EOS

?X:
?X: Given that we now have the possibility to execute Configure remotely
?X: thanks to the new src.U support, we have to face the possibility
?X: of having to ask where the source lie, which means we need the Myread.U
?X: stuff and possibly other things that might echo something on the
?X: screen...
?X:
?X: That's not pretty, and might be confusing in 99% of the time. So...
?X: We introduce a new realsilent variable which is set when -s is given,
?X: and we force silent=true if -S is supplied. The Extractall.U unit
?X: will then undo the >&4 redirection based on the value of the
?X: realsilent variable... -- RAM, 18/93/96
?X:

: option parsing
while test $# -gt 0; do
 case "$1" in
 -d) shift; fastread=yes;;
 -e) shift; alldone=cont;;
 -f)
  shift
  cd ..
  if test -r "$1"; then
   config_sh="$1"
  else
   echo "$me: cannot read config file $1." >&2
   error=true
  fi
  cd UU
  shift;;
 -h)
 shift; error=true;;
 -r) shift; reuseval=true;;
 -s) shift; silent=true; realsilent=true;;
 -E) shift; alldone=exit;;
 -K) shift; knowitall=true;;
 -O) shift; override=true;;
 -S) shift; silent=true; extractsh=true;;
 -D)
  shift
  case "$1" in
```

```
 *=)
  echo "$me: use '-U symbol=', not '-D symbol='." >&2
  echo "$me: ignoring -D $1" >&2
  ;;
 *=*) echo "$1" | \
   sed -e "s/'/'\''\''/g" -e "s/=\(.*\)/='\1'/" >> optdef.sh;;
 *) echo "$1='define'" >> optdef.sh;;
 esac
 shift
 ;;
-U)
 shift
 case "$1" in
 *=) echo "$1" >> optdef.sh;;
 *=*)
  echo "$me: use '-D symbol=val', not '-U symbol=val'." >&2
  echo "$me: ignoring -U $1" >&2
  ;;
 *) echo "$1='undef'" >> optdef.sh;;
 esac
 shift
 ;;
-A)
    shift
    xxx=''
    yyy="$1"
    zzz=''
    uuu=undef
    case "$yyy" in
          *=*) zzz=`echo "$yyy"|sed 's!=.*!!'`
               case "$zzz" in
               *:*) zzz='' ;;
               *)   xxx=append
                    zzz=" "`echo
"$yyy"|sed 's!^[^=]*=!!'`
                    yyy=`echo "$yyy"|sed 's!=.*!!'` ;;
               esac
               ;;
          esac
          case "$xxx" in
          '')  case "$yyy" in
               *:*) xxx=`echo "$yyy"|sed 's!:.*!!'`
                    yyy=`echo "$yyy"|sed 's!^[^:]*:!!'`
                    zzz=`echo "$yyy"|sed 's!^[^=]*=!!'`
                    yyy=`echo "$yyy"|sed 's!=.*!!'` ;;
               *)   xxx=`echo "$yyy"|sed 's!:.*!!'`
                    yyy=`echo "$yyy"|sed 's!^[^:]*:!!'` ;;
               esac
```

```
            ;;
        esac
    case "$xxx" in
    append)
 echo "$yyy=\"\${$yyy}$zzz\"" >> posthint.sh ;;
    clear)
 echo "$yyy=""   >> posthint.sh ;;
    define)
        case "$zzz" in
 ") zzz=define ;;
 esac
 echo "$yyy='$zzz'"  >> posthint.sh ;;
    eval)
 echo "eval \"$yyy=$zzz\"" >> posthint.sh ;;
    prepend)
 echo "$yyy=\"$zzz\${$yyy}\"" >> posthint.sh ;;
    undef)
        case "$zzz" in
 ")
zzz="$uuu" ;;
 esac
 echo "$yyy=$zzz"  >> posthint.sh ;;
         *)  echo "$me: unknown -A command '$xxx', ignoring -A $1" >&2 ;;
    esac
    shift
    ;;
-V) echo "$me generated by metaconfig <VERSION> PL<PATCHLEVEL>." >&2
    exit 0;;
--) break;;
-*) echo "$me: unknown option $1" >&2; shift; error=true;;
*) break;;
esac
done

case "$error" in
true)
 cat >&2 <<EOM
Usage: $me [-dehrsEKOSV] [-f config.sh] [-D symbol] [-D symbol=value]
            [-U symbol] [-U symbol=] [-A command:symbol...]
 -d : use defaults for all answers.
 -e : go on without questioning past the production of config.sh.
 -f : specify an alternate default configuration file.
 -h : print this help message and exit (with an error status).
 -r : reuse C symbols value if possible (skips costly nm extraction).
 -s : silent mode, only echoes questions and essential information.
 -D : define symbol to have some value:
        -D symbol         symbol gets the value 'define'
        -D symbol=value
```

```
  symbol gets the value 'value'
 -E : stop at the end of questions, after having produced config.sh.
 -K : do not use unless you know what you are doing.
 -O : let -D and -U override definitions from loaded configuration file.
 -S : perform variable substitutions on all .SH files (can mix with -f)
 -U : undefine symbol:
       -U symbol    symbol gets the value 'undef'
       -U symbol=   symbol gets completely empty
 -A : manipulate symbol after the platform specific hints have been applied:
  -A symbol=value  append " "value to symbol
  -A append:symbol=value  append value to symbol
  -A define:symbol=value  define symbol to have value
       -A clear:symbol  define symbol to be ''
  -A define:symbol  define symbol to be 'define'
  -A eval:symbol=value  define symbol to be eval of value
  -A prepend:symbol=value prepend value to symbol
  -A undef:symbol  define symbol to be 'undef'
  -A undef:symbol=  define symbol to be ''
 -V : print version number and exit (with
 a zero status).
EOM
 exit 1
 ;;
esac

?X:
?X: Unless they specified either -S or both -d and -e/E, make sure we're
?X: running interactively, i.e. attached to a terminal. Moved from Head.U to
?X: be able to handle batch configurations...
?X:
?X: We have to hardwire the Configure name and cannot use $me, since if they
?X: said 'sh <Configure', then $me is 'sh'...
?X:
: Sanity checks
case "$fastread$alldone" in
yescont|yesexit) ;;
*)
 case "$extractsh" in
 true) ;;
 *)
  if test ! -t 0; then
   echo "Say 'sh Configure', not 'sh <Configure'"
   exit 1
  fi
  ;;
 esac
 ;;
esac
```

```
?X: In silent mode, the standard output is closed. Questions are asked by
?X: outputing on file descriptor #4, which is the original stdout descriptor.
?X: This filters out all the "junk", since all the needed information is written
?X: on #4. Note that ksh will not let us redirect output if the file descriptor
?X: has not be defined yet, unlike sh, hence the following line...--RAM.
exec 4>&1
case "$silent" in
true)
 exec 1>/dev/null;;
esac

: run the defines and the undefines, if any, but leave the file out there...
touch optdef.sh
. ./optdef.sh
: create the posthint manipulation script and leave the file out there...
?X: this file will be perused by Oldconfig.U
touch posthint.sh
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Options.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_stdbool.U,v $
?RCS:
?RCS: Copyright (c) 2011 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_stdbool: cat Compile rm_try Setvar
?MAKE: -pick add $@ %<
?S:i_stdbool:
?S: This variable conditionally defines the I_STDBOOL symbol, which
?S: indicates to the C program that <stdbool.h> exists and should
?S: be included.
?S:.
?C:I_STDBOOL:
?C: This symbol, if defined, indicates that <stdbool.h> exists and
?C: can be included.
?C:.
?H:#$i_stdbool I_STDBOOL  /**/
?H:.
?LINT:set i_stdbool
: see if stdbool is available
: we want a real compile instead of Inhdr because some Solaris systems
: have stdbool.h, but it can only be used if the compiler indicates it
```

```
: is sufficiently c99-compliant.
echo " "
$cat >try.c <<EOCP
#include <stdio.h>
#include <stdbool.h>
int func(bool x)
{
   return
 x ? 1 : 0;
}
int main(int argc, char **argv)
{
   return func(0);
}
EOCP
set try
if eval $compile; then
 echo "<stdbool.h> found." >&4
 val="$define"
else
 echo "<stdbool.h> NOT found." >&4
 val="$undef"
fi
$rm_try
set i_stdbool
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_stdbool.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_munmap.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_munmap.U,v $
?RCS: Revision 3.0.1.1  1993/12/15  08:19:22  ram
?RCS: patch15: created
?RCS:
?MAKE:d_munmap: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_munmap:
?S: This variable conditionally defines HAS_MUNMAP if munmap() is
?S: available to unmap a region mapped by mmap().
?S:.
?C:HAS_MUNMAP:
?C: This symbol, if defined, indicates that the munmap system call is
?C: available to unmap a region, usually mapped by mmap().
?C:.
?H:#$d_munmap HAS_MUNMAP  /**/
?H:.
?LINT:set
 d_munmap
: see if munmap exists
set munmap d_munmap
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_munmap.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fmin: Inlibc
?MAKE: -pick add $@ %<
?S:d_fmin:
?S: This variable conditionally defines the HAS_FMIN symbol, which
?S: indicates to the C program that the fmin() routine is available.
?S:.
?C:HAS_FMIN:
?C: This symbol, if defined, indicates that the fmin routine is
?C: available to do the minimum function.
?C:.
?H:#$d_fmin HAS_FMIN  /**/
?H:.
?LINT:set d_fmin
: see if fmin exists
set fmin d_fmin
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fmin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: doublesize.U,v 3.0.1.1 1994/10/29 16:17:06 ram Exp $
?RCS:
```

```
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: doublesize.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:17:06  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:06  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:doublesize: cat rm_try Myread Compile run i_stdlib
?MAKE: -pick add $@ %<
?S:doublesize:
?S: This variable contains the value of the DOUBLESIZE symbol, which
?S: indicates to the C program how many bytes there are in a double.
?S:.
?C:DOUBLESIZE:
?C: This
 symbol contains the size of a double, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define DOUBLESIZE $doublesize  /**/
?H:.
?F:!try
: check for length of double
echo " "
case "$doublesize" in
")
 echo "Checking to see how big your double precision numbers are..." >&4
 $cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
{
   printf("%d\n", (int)sizeof(double));
   exit(0);
}
EOCP
 set try
 if eval $compile_ok; then
```

```
  doublesize=`$run ./try`
  echo "Your double is $doublesize bytes long."
 else
  dflt='8'
  echo "(I can't seem to compile the test program.  Guessing...)"
  rp="What is the size of a double precision number (in bytes)?"
  . ./myread
  doublesize="$ans"
 fi
 ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/doublesize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS: Copyright (c) 2019, Karl Williamson
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_setlocale d_setlocale_accepts_any_locale_name d_has_C_UTF8: \
 cat Compile run rm_try i_locale i_wctype d_towupper Setvar Myread
?MAKE: -pick add $@ %<
?S:d_has_C_UTF8:
?S: This variable is set to either "true" or "false" depending on
?S: whether the compilation system supports the C.UTF-8 locale.
?S:.
?S:d_setlocale:
?S: This variable conditionally defines HAS_SETLOCALE if setlocale() is
?S: available to handle locale-specific ctype implementations.
?S:.
?S:d_setlocale_accepts_any_locale_name:
?S: This
 variable conditionally defines SETLOCALE_ACCEPTS_ANY_LOCALE_NAME
?S: if setlocale() accepts any locale name.
?S:.
?C:HAS_SETLOCALE:
?C: This symbol, if defined, indicates that the setlocale routine is
?C: available to handle locale-specific ctype implementations.
?C:.
?C:SETLOCALE_ACCEPTS_ANY_LOCALE_NAME:
```

```
?C: This symbol, if defined, indicates that the setlocale routine is
?C: available and it accepts any input locale name as valid.
?C:.
?H:#$d_setlocale HAS_SETLOCALE /**/
?H:#$d_setlocale_accepts_any_locale_name SETLOCALE_ACCEPTS_ANY_LOCALE_NAME /**/
?H:.
?F:!try
?T:LC_CTYPE c_utf8_locale
: check for setlocale function and behavior
case "$d_setlocale" in
")
$cat >&4 <<EOM

Checking to see if you have setlocale() and its behavior
EOM
$cat >try.c <<EOCP
#include <stdlib.h>
#include <string.h>
#$i_locale I_LOCALE
#ifdef I_LOCALE
#  include <locale.h>
#endif
#$i_wctype I_WCTYPE
#ifdef I_WCTYPE
#  include <wctype.h>
#endif

int main() {
   const char * invalid_name
 = "\a";   /* This is really invalid! */
   int accepts_any_locale_name = 0;
   int has_C_UTF8 = 0;
   unsigned char bad_setlocale = 255;

   /* If LC_CTYPE isn't defined the compilation will fail, and locales will be
    * disabled.  It's hard to imagine an instance where meaningful locale
    * handling could be done without LC_CTYPE */
   const char *  name = setlocale(LC_CTYPE, "C");

   if (name == NULL || strcmp(name, "C") != 0) {
       exit(bad_setlocale);
   }

   name = setlocale(LC_CTYPE, invalid_name);
   if (name != NULL) {

       /* Let it pass if it accepts the name but gives back one of the C
        * locales */
```

```
        if (strcmp(name, "C") != 0 && strcmp(name, "C.UTF-8") != 0) {
            accepts_any_locale_name = 1;
        }
    }

    name = setlocale(LC_CTYPE, "C.UTF-8");
    if (name != NULL) {
        unsigned char y_with_diaeresis = ('A' == 193) ? 0xDF : 0xFF;

#$d_towupper HAS_TOWUPPER
#ifdef HAS_TOWUPPER

        /* We assume that if
 the machine doesn't have the C99 towupper, it
         * doesn't have C.UTF-8, even if we successfully changed locales to
         * include it.  This seems safer even on platforms that didn't accept
         * the really invalid name */

        if (towupper(y_with_diaeresis) == 0x178) {
            has_C_UTF8 = 1;
        }

#endif

    }

#if 0

    /* Currently unused code to determine if LC_ALL with disparate values uses
     * category = value pairs or positional, and to determine the separator
     * between the categories.  We could add code so that if the separator were
     * > '9', we subtract 10; similarly for 'Z' and 'z', and then just about
     * every possible ASCII separator would fit in the 5 bits available in the
     * exit code.  This would not be true in EBCDIC.  And then if LC_ALL is
     * positional, we probably would want to know the order of the categories.
     * Using a file between the C program and the shell script would really be
     * require to do that
 */
#ifdef LC_ALL

    unsigned char min_separator = ' ' - 1;
    unsigned char separator = min_separator;
    int uses_name_value_pair_names = 0;

    name = setlocale(LC_ALL, "C");
    if (name == NULL || strcmp(name, "C") != 0) {
        exit(bad_setlocale);
    }
```

```
  if (has_C_UTF8) {
      char * pos;

      name = setlocale(LC_CTYPE, "C.UTF-8");
      if (name == NULL) {
          exit(bad_setlocale);
      }
      name = setlocale(LC_ALL, NULL);
      if (name == NULL) {
          exit(bad_setlocale);
      }

      pos = strstr(name, "LC_CTYPE" "=C.UTF-8");
      if (pos != NULL) {
          uses_name_value_pair_names = 1;
          if (pos == name) {
              separator = name[sizeof("LC_CTYPE=C.UTF-8") - 1];
          }
          else {
              separator = *(pos - 1);
          }
      }
      else {
          pos = strstr(name, "C.UTF-8");
          if (pos == NULL) {
              /* bad */
          }

  else if (pos == name) {
              separator = name[sizeof("C.UTF-8") - 1];
          }
          else {
              separator = *(pos - 1);
          }
      }
  }

#endif
#endif

  exit( 0 /* (separator - min_separator) << 3
      | uses_name_value_pair_names      << 2
        */
      | has_C_UTF8                      << 1
      | accepts_any_locale_name);

}
```

```
EOCP
val=
set d_setlocale
eval $setvar
case $d_setlocale in
  $undef) d_setlocale_accepts_any_locale_name="$undef"
          d_has_C_UTF8="false"
          ;;
  *) set try
     if eval $compile; then
        echo "Your system has setlocale()..." >&4
        $run ./try
        case $? in
           0) echo "and it seems sane; you don't have a C.UTF8 locale" >&4
              d_setlocale="$define"
              d_setlocale_accepts_any_locale_name="$undef"
              d_has_C_UTF8="false"
              ;;
           1) echo "and it seems sane, but accepts any
 locale name as valid" >&4
              d_setlocale="$define"
              d_setlocale_accepts_any_locale_name="$define"
              d_has_C_UTF8="false"
              ;;
           2) echo "and it seems sane; you have a C.UTF8 locale" >&4
              d_setlocale="$define"
              d_setlocale_accepts_any_locale_name="$undef"
              d_has_C_UTF8="true"
              ;;
           3) echo "and it seems sane, but accepts any locale name as valid" >&4
              d_setlocale="$define"
              d_setlocale_accepts_any_locale_name="$define"
              d_has_C_UTF8="true"
              ;;
           *) echo "but it doesn't seem to work, so we won't use it." >&4
              d_setlocale="$undef"
              d_setlocale_accepts_any_locale_name="$undef"
              d_has_C_UTF8="false"
              ;;
        esac
     else
        echo "your system does not have setlocale()"
 >&4
        d_setlocale="$undef"
        d_setlocale_accepts_any_locale_name="$undef"
        d_has_C_UTF8="false"
     fi
esac
```

```
$rm_try
;;
*) val="$d_setlocale"
   set d_setlocale
   eval $setvar
   case "$d_setlocale" in
      $undef) echo "There may be other ways to set the locale on your system, so we need to ask:" >&4
      ;;
   esac
   rp="Does your system have the C.UTF8 locale?"
   dflt=n
   . ./myread
   case "$ans" in
      [Yy]*) d_has_C_UTF8="true"
             c_utf8_locale=" or C.UTF8"
             ;;
      *)     d_has_C_UTF8="false"
             c_utf8_locale=""
             ;;
   esac
   case "$d_setlocale" in
      $define)
         rp="When you set your locale to something besides C$c_utf8_locale, does it do so, or just pretend to?" >&4
         dflt=n
         . ./myread
         case "$ans" in
            true|[Yy]*)
    d_setlocale_accepts_any_locale_name="$undef"
    ;;
  *) d_setlocale_accepts_any_locale_name="$define"

   ;;
         esac
         ;;
      *) d_setlocale_accepts_any_locale_name="$undef"
    ;;
   esac
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_setlocale.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: i_float.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:

```
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: i_float.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:21:57  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:i_float: Inhdr
?MAKE: -pick add $@ %<
?S:i_float:
?S: This variable conditionally defines the I_FLOAT symbol, and indicates
?S: whether a C program may include <float.h> to get symbols like DBL_MAX
?S: or DBL_MIN, i.e. machine dependent floating point values.
?S:.
?C:I_FLOAT:
?C: This
 symbol, if defined, indicates to the C program that it should
?C: include <float.h> to get definition of symbols like DBL_MAX or
?C: DBL_MIN, i.e. machine dependent floating point values.
?C:.
?H:#$i_float I_FLOAT  /**/
?H:.
?LINT:set i_float
: see if this is a float.h system
set float.h i_float
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_float.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fgetpos.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_fgetpos.U,v $
```

```
?RCS: Revision 3.0.1.1  1994/06/20  06:57:33  ram
?RCS: patch30: created
?RCS:
?MAKE:d_fgetpos: Inlibc
?MAKE: -pick add $@ %<
?S:d_fgetpos:
?S: This variable conditionally defines HAS_FGETPOS if fgetpos() is
?S: available to get the file position indicator.
?S:.
?C:HAS_FGETPOS:
?C: This symbol, if defined, indicates that the fgetpos routine is
?C: available to get the file position indicator, similar to ftell().
?C:.
?H:#$d_fgetpos
 HAS_FGETPOS /**/
?H:.
?LINT:set d_fgetpos
: see if fgetpos exists
set fgetpos d_fgetpos
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_fgetpos.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_llrintl: Inlibc
?MAKE: -pick add $@ %<
?S:d_llrintl:
?S: This variable conditionally defines the HAS_LLRINTL symbol, which
?S: indicates to the C program that the llrintl() routine is available
?S: to return the long long value closest to a long double (according
?S: to the current rounding mode).
?S:.
?C:HAS_LLRINTL:
?C: This symbol, if defined, indicates that the llrintl routine is
?C: available to return the long long value closest to a long double
?C: (according to the current rounding mode).
?C:.
?H:#$d_llrintl HAS_LLRINTL  /**/
?H:.
?LINT:set d_llrintl
: see if llrintl exists
set llrintl d_llrintl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_llrintl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endnetent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_endnetent_r endnetent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_endnetent_r:
?S: This variable conditionally defines the HAS_ENDNETENT_R symbol,
?S: which indicates to the C program that the endnetent_r()
?S: routine is available.
?S:.
?S:endnetent_r_proto:
?S: This variable encodes the prototype of endnetent_r.
?S: It is zero if d_endnetent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endnetent_r
?S: is defined.
?S:.
?C:HAS_ENDNETENT_R:
?C: This symbol, if defined, indicates that the endnetent_r routine
?C: is
 available to endnetent re-entrantly.
?C:.
?C:ENDNETENT_R_PROTO:
?C: This symbol encodes the prototype of endnetent_r.
?C: It is zero if d_endnetent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endnetent_r
?C: is defined.
?C:.
?H:#$d_endnetent_r HAS_ENDNETENT_R /**/
?H:#define ENDNETENT_R_PROTO $endnetent_r_proto /**/
?H:.
?T:try hdrs d_endnetent_r_proto
: see if endnetent_r exists
set endnetent_r d_endnetent_r
eval $inlibc
case "$d_endnetent_r" in
"$define")
```

```
hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
case "$d_endnetent_r_proto:$usethreads" in
":define") d_endnetent_r_proto=define
 set d_endnetent_r_proto endnetent_r $hdrs
 eval $hasproto ;;
*) ;;
esac
case "$d_endnetent_r_proto" in
define)
case "$endnetent_r_proto" in
"|0) try='int endnetent_r(struct netent_data*);'
./protochk "$extern_C $try" $hdrs && endnetent_r_proto=I_D ;;
esac
case "$endnetent_r_proto" in
"|0) try='void endnetent_r(struct netent_data*);'
./protochk
"$extern_C $try" $hdrs && endnetent_r_proto=V_D ;;
esac
case "$endnetent_r_proto" in
"|0) d_endnetent_r=undef
 endnetent_r_proto=0
 echo "Disabling endnetent_r, cannot determine prototype." >&4 ;;
* ) case "$endnetent_r_proto" in
 REENTRANT_PROTO*) ;;
 *) endnetent_r_proto="REENTRANT_PROTO_$endnetent_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "endnetent_r has no prototype, not using it." >&4 ;;
 esac
 d_endnetent_r=undef
 endnetent_r_proto=0
 ;;
esac
;;
*) endnetent_r_proto=0
;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_endnetent_r.U
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Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/files/Jmake.tmpl
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_drand48proto: Hasproto i_stdlib i_unistd
?MAKE: -pick add $@ %<
?S:d_drand48proto:
?S: This variable conditionally defines the HAS_DRAND48_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the drand48() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_DRAND48_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the drand48() function.  Otherwise, it is up
?C: to the program to supply one.  A good guess
 is
?C:  extern double drand48(void);
?C:.
?H:#$d_drand48proto HAS_DRAND48_PROTO /**/
?H:.
?LINT:set d_drand48proto
: see if prototype for drand48 is available
echo " "
set d_drand48proto drand48 $i_stdlib stdlib.h $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/d_drand48proto.U
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```
?RCS: $Id: d_strtod.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strtod.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:46:36  ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_strtod: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtod:
?S: This variable conditionally defines the HAS_STRTOD symbol, which
?S: indicates to the C program that the strtod() routine is available
?S: to provide better numeric string conversion than atof().
?S:.
?C:HAS_STRTOD (STRTOD):
?C: This symbol, if defined,
 indicates that the strtod routine is
?C: available to provide better numeric string conversion than atof().
?C:.
?H:#$d_strtod HAS_STRTOD /**/
?H:.
?LINT:set d_strtod
: see if strtod exists
set strtod d_strtod
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strtod.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, 2012 Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:intsize longsize shortsize: Assert Myread cat rm_try +cc +ccflags echo n c
?MAKE: -pick add $@ %<
?S:intsize:
```

```
?S: This variable contains the value of the INTSIZE symbol, which
?S: indicates to the C program how many bytes there are in an int.
?S:.
?S:longsize:
?S: This variable contains the value of the LONGSIZE symbol, which
?S: indicates to the C program how many bytes there are in a long.
?S:.
?S:shortsize:
?S: This variable contains the value of the SHORTSIZE symbol which
?S: indicates to the
 C program how many bytes there are in a short.
?S:.
?C:INTSIZE:
?C: This symbol contains the value of sizeof(int) so that the C
?C: preprocessor can make decisions based on it.
?C:.
?C:LONGSIZE:
?C: This symbol contains the value of sizeof(long) so that the C
?C: preprocessor can make decisions based on it.
?C:.
?C:SHORTSIZE:
?C: This symbol contains the value of sizeof(short) so that the C
?C: preprocessor can make decisions based on it.
?C:.
?H:#define INTSIZE $intsize
?H:#define LONGSIZE $longsize
?H:#define SHORTSIZE $shortsize
?H:.
?T:types t size var
?LINT: set shortsize intsize longsize
: check for lengths of integral types
echo " "
types=''
@if SHORTSIZE || shortsize
types="$types short"
@end
@if INTSIZE || intsize
types="$types int"
@end
@if LONGSIZE || longsize
types="$types long"
@end
for t in $types; do
 $echo $n "Checking to see how big your ${t}s are...$c" >&4
 for size in 2 4 8 16 error; do
  $cat >try.c <<EOCP
#include "static_assert.h"
$t foo;
```

```
int main()
{
 STATIC_ASSERT($size
 == sizeof(foo));
 return 0;
}
EOCP
  if $cc -c $ccflags try.c >/dev/null 2>&1; then break; fi
 done
 var=${t}size
 case "$size" in
 error)
  echo " cannot compute it." >&4
  case $t in
  short) dflt=2;;
  int) dflt=4;;
  long) dflt=4;;
  esac
  rp="What is the size of the \"$t\" type (in bytes)?"
  . ./myread
  eval $var="$ans"
  ;;
 *)
  echo " $size bytes." >&4
  eval $var=$size
  ;;
 esac
done
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/intsize.U
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```
?RCS: $Id: d_pread.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_pread.U,v $
?RCS:
?MAKE:d_pread: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_pread:
?S: This variable conditionally defines the HAS_PREAD symbol, which
?S: indicates to the C program that the pread() routine is available.
?S:.
?C:HAS_PREAD :
?C: This symbol, if defined, indicates that the pread routine is
?C: available to perform reads on a file descriptor at a given offset.
?C:.
?H:#$d_pread HAS_PREAD  /**/
?H:.
?LINT:set d_pread
: see if pread exists
set
 pread d_pread
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_pread.U
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* Feel free to modify any of this as the need arises. Note, however,

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/metaconfig.html
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sem.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sem: test d_semctl d_semget d_semop Setvar Findhdr osname
?MAKE: -pick add $@ %<
?S:d_sem:
?S: This variable conditionally defines the HAS_SEM symbol, which
?S: indicates that the entire sem*(2) library is present.
```

```
?S:.
?C:HAS_SEM:
?C: This symbol, if defined, indicates that the entire sem*(2) library is
?C: supported.
?C:.
?H:#$d_sem HAS_SEM  /**/
?H:.
?T:h_sem
?LINT:set d_sem
:
 see how much of the 'sem*(2)' library is present.
h_sem=true
echo " "
case "$d_semctl$d_semget$d_semop" in
*"$undef"*) h_sem=false;;
esac
case "$osname" in
freebsd)
   case "`ipcs 2>&1`" in
   "SVID messages"*"not configured"*)
 echo "Your $osname does not have the sem*(2) configured." >&4
       h_sem=false
 val="$undef"
 set semctl d_semctl
 eval $setvar
 set semget d_semget
 eval $setvar
 set semop d_semop
 eval $setvar
 ;;
   esac
   ;;
esac
: we could also check for sys/ipc.h ...
if $h_sem && $test `./findhdr sys/sem.h`; then
 echo "You have the full sem*(2) library." >&4
 val="$define"
else
 echo "You don't have the full sem*(2) library." >&4
 val="$undef"
fi
set d_sem
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sem.U

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```
?RCS: $Id: mailer.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: mailer.U,v $
?RCS: Revision 3.0.1.3  1995/01/11  15:32:11  ram
?RCS: patch45: can now use Loc variables since path stripping is deferred
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:10:04  ram
?RCS: patch23: ensure full path value is used for rmail also
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:14:18  ram
?RCS: patch16: now use _sendmail vars and friends for portability issues
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:10  ram
?RCS: Baseline for dist
 3.0 netwide release.
?RCS:
?MAKE:mailer: test cat rmail mail smail sendmail Getfile Oldconfig
?MAKE: -pick add $@ %<
?S:mailer:
?S: This variable contains the full pathname of a reasonable mailer.
?S: By reasonable, we mean some program which can understand internet
?S: addresses or at least forward them to some internet router. This
?S: mailer should be invoked as "mailer [options] recipients <mail".
?S:.
: determine the name of a reasonable mailer
case "$mailer" in
")
 if $test -f "$sendmail"; then
  dflt="$sendmail"
 elif $test -f "$smail"; then
  dflt="$smail"
 elif $test -f "$rmail"; then
  dflt="$rmail"
 elif $test -f /bin/mail; then
  dflt=/bin/mail
 else
  dflt=$mail
 fi
```

```
 ;;
*)  dflt="$mailer";;
esac
$cat <<EOM

I need the full pathname of the program used to deliver mail on your system.
A typical answer would be /usr/lib/sendmail or /bin/rmail, but you may choose
any other program, as long as it can be fed from standard input and will
honour any user-supplied headers.

EOM
fn=f
rp='Mail
 transport agent to be used?'
. ./getfile
mailer="$ans"
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/mailer.U
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```
?RCS: $Id: startsh.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: startsh.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:25:31  ram
?RCS: patch61: avoid needless chatter since this is now done very early
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:startsh: sh sharpbang eunicefix
?MAKE: -pick add $@ %<
?S:startsh:
?S: This variable contains the string to put on the front of a shell
?S: script to make sure (hopefully) that it runs with sh and not some
?S: other
 shell.
?S:.
?F:!sharp
```

```
: figure out how to guarantee sh startup
?X: Avoid needless chatter since this is now done very early.
?X: echo " "
?X: echo "Checking out how to guarantee sh startup..." >&2
case "$startsh" in
") startsh=${sharpbang}${sh} ;;
*)
?X: echo "Let's see if '$startsh' works..." ;;
esac
cat >sharp <<EOSS
$startsh
set abc
test "$?abc" != 1
EOSS

chmod +x sharp
$eunicefix sharp
if ./sharp; then
 : echo "Yup, it does."
else
 echo "Hmm... '$startsh' does not guarantee sh startup..."
 echo "You may have to fix up the shell scripts to make sure $sh runs them."
fi
rm -f sharp
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/startsh.U
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```
?RCS: Copyright (c) 2017-2018, H.Merijn Brand
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_mkostemp: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkostemp:
?S: This variable conditionally defines HAS_MKOSTEMP if mkostemp() is
?S: available to exclusively create and open a uniquely named (with a
?S: suffix) temporary file.
?S:.
?C:HAS_MKOSTEMP:
?C: This symbol, if defined, indicates that the mkostemp routine is
?C: available to exclusively create and open a uniquely named (with a
```

```
?C: suffix) temporary file.
?C:.
?H:#$d_mkostemp HAS_MKOSTEMP /**/
?H:.
?LINT:set d_mkostemp
: see if mkostemp exists
set mkostemp d_mkostemp
eval $inlibc
```

Found
 in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_mkostemp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998, Jarkko Hietaniemi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:selectminbits: Compile cat rm_try Oldconfig d_select \
 i_time i_systime i_systimek i_sysselct selecttype d_socket \
 byteorder Myread Setvar run i_stdlib ptrsize
?MAKE: -pick add $@ %<
?S:selectminbits:
?S: This variable holds the minimum number of bits operated by select.
?S: That is, if you do select(n, ...), how many bits at least will be
?S: cleared in the masks if some activity is detected.  Usually this
?S: is either n or 32*ceil(n/32), especially many little-endians do
?S: the latter.  This is only useful if
 you have select(), naturally.
?S:.
?C:SELECT_MIN_BITS:
?C: This symbol holds the minimum number of bits operated by select.
?C: That is, if you do select(n, ...), how many bits at least will be
?C: cleared in the masks if some activity is detected.  Usually this
?C: is either n or 32*ceil(n/32), especially many little-endians do
?C: the latter.  This is only useful if you have select(), naturally.
?C:.
?H:#define SELECT_MIN_BITS $selectminbits /**/
?H:.
?T:bits
?T:safebits
```

```
?F:!try
: check for the select 'width'
case "$selectminbits" in
") safebits=`expr $ptrsize \* 8`
   case "$d_select" in
 $define)
  $cat <<EOM

Checking to see on how many bits at a time your select() operates...
EOM
  $cat >try.c <<EOCP
#include <sys/types.h>
#$i_time I_TIME
#$i_systime I_SYS_TIME
#$i_systimek I_SYS_TIME_KERNEL
#ifdef I_TIME
#   include <time.h>
#endif
#ifdef I_SYS_TIME
#   ifdef I_SYS_TIME_KERNEL
# define KERNEL
#   endif
#   include <sys/time.h>
#   ifdef I_SYS_TIME_KERNEL
# undef KERNEL
#   endif
#endif
#$i_sysselct
 I_SYS_SELECT
#ifdef I_SYS_SELECT
#include <sys/select.h>
#endif
#$d_socket HAS_SOCKET
#ifdef HAS_SOCKET
#   include <sys/socket.h> /* Might include <sys/bsdtypes.h> */
#endif
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
$selecttype b;
#define S sizeof(*(b))
#define MINBITS 64
#define NBYTES (S * 8 > MINBITS ? S : MINBITS/8)
#define NBITS  (NBYTES * 8)
int main() {
   char *s = (char *)malloc(NBYTES);
```

```
  struct timeval t;
  int i;
  FILE* fp;
  int fd;

  if (!s)
 exit(1);
  fclose(stdin);
  fp = fopen("try.c", "r");
  if (fp == 0)
    exit(2);
  fd = fileno(fp);
  if (fd < 0)
    exit(3);
  b = ($selecttype)s;
  for (i = 0; i < NBITS; i++)
 FD_SET(i, b);
  t.tv_sec  = 0;
  t.tv_usec = 0;
  select(fd + 1, b, 0, 0, &t);
  for (i = NBITS - 1; i > fd && FD_ISSET(i, b); i--);
  free(s);
  printf("%d\n", i + 1);
  return 0;
}
EOCP
  set try
  if eval $compile_ok; then
  selectminbits=`$run
 ./try 2>/dev/null`
  case "$selectminbits" in
  ") cat >&4 <<EOM
Cannot figure out on how many bits at a time your select() operates.
I'll play safe and guess it is $safebits bits.
EOM
    selectminbits=$safebits
    bits="$safebits bits"
    ;;
  1) bits="1 bit" ;;
  *) bits="$selectminbits bits" ;;
  esac
  echo "Your select() operates on $bits at a time." >&4
  else
  rp='What is the minimum number of bits your select() operates on?'
  case "$byteorder" in
  12345678) dflt=64 ;;
  1234)  dflt=32 ;;
  *)  dflt=1 ;;
```

```
  esac
  . ./myread
  val=$ans
  selectminbits="$val"
 fi
 $rm_try
 ;;
*) : no select, so pick a harmless default
 selectminbits=$safebits
 ;;
esac
;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/selectminbits.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_drem.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_drem.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:12:14  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_drem: Inlibc
?MAKE: -pick add $@ %<
?S:d_drem:
?S: This variable conditionally defines the HAS_DREM symbol, which
?S: indicates to the C program that the drem() routine is available.
?S:.
?C:HAS_DREM :
?C: This symbol, if defined, indicates that the drem routine is
?C: available.
  This routine is roughly the same as fmod, i.e. it
?C: computes the remainder r=x-n*y, where n=rint(x/y), whereas fmod
?C: uses n=trunc(x/y).
?C:.
```

```
?H:#$d_drem HAS_DREM  /**/
?H:.
?LINT:set d_drem
: see if drem exists
set drem d_drem
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_drem.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_scalbnl: Inlibc
?MAKE: -pick add $@ %<
?S:d_scalbnl:
?S: This variable conditionally defines the HAS_SCALBNL symbol, which
?S: indicates to the C program that the scalbnl() routine is available.
?S: If ilogbl is also present we can emulate frexpl.
?S:.
?C:HAS_SCALBNL:
?C: This symbol, if defined, indicates that the scalbnl routine is
?C: available.  If ilogbl is also present we can emulate frexpl.
?C:.
?H:#$d_scalbnl HAS_SCALBNL  /**/
?H:.
?LINT:set d_scalbnl
: see if scalbnl exists
set scalbnl d_scalbnl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_scalbnl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_memcmp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memcmp.U,v $
?RCS: Revision 3.0.1.1  1993/09/13  16:02:35  ram
?RCS: patch10: removed text recommending bcmp over memcmp (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:33  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_memcmp: Inlibc
?MAKE: -pick add $@ %<
?S:d_memcmp:
?S: This variable conditionally defines the HAS_MEMCMP symbol, which
?S: indicates to the C program that the memcmp() routine is available
?S: to compare blocks of
 memory.
?S:.
?C:HAS_MEMCMP (MEMCMP):
?C: This symbol, if defined, indicates that the memcmp routine is available
?C: to compare blocks of memory.
?C:.
?H:#$d_memcmp HAS_MEMCMP /**/
?H:.
?LINT:set d_memcmp
: see if memcmp exists
set memcmp d_memcmp
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_memcmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2014 Jarkko Hietaniemi & H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_copysign: Inlibc
?MAKE: -pick add $@ %<
?S:d_copysign:
?S: This variable conditionally defines the HAS_COPYSIGN symbol, which
?S: indicates to the C program that the copysign() routine is available.
?S:.
```

```
?C:HAS_COPYSIGN:
?C: This symbol, if defined, indicates that the copysign routine is
?C: available to do the copysign function.
?C:.
?H:#$d_copysign HAS_COPYSIGN  /**/
?H:.
?LINT:set d_copysign
: see if copysign exists
set copysign d_copysign
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_copysign.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_acosh: Inlibc
?MAKE: -pick add $@ %<
?S:d_acosh:
?S: This variable conditionally defines the HAS_ACOSH symbol, which
?S: indicates to the C program that the acosh() routine is available.
?S:.
?C:HAS_ACOSH:
?C: This symbol, if defined, indicates that the acosh routine is
?C: available to do the inverse hyperbolic cosine function.
?C:.
?H:#$d_acosh HAS_ACOSH  /**/
?H:.
?LINT:set d_acosh
: see if acosh exists
set acosh d_acosh
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_acosh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_gethname.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:13:00  ram
?RCS: patch36: call ./xenix explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:11  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_gethname d_uname d_phostname aphostname: phostname cat \
 myhostname package d_portable Loc echo n c +i_whoami +usrinc \
 Myread Guess Oldconfig Csym
?MAKE: -pick add $@ %<
?S:d_gethname:
?S: This variable conditionally defines the HAS_GETHOSTNAME symbol,
 which
?S: indicates to the C program that the gethostname() routine may be
?S: used to derive the host name.
?S:.
?S:d_uname:
?S: This variable conditionally defines the HAS_UNAME symbol, which
?S: indicates to the C program that the uname() routine may be
?S: used to derive the host name.
?S:.
?S:d_phostname:
?S: This variable conditionally defines the PHOSTNAME symbol, which
?S: contains the shell command which, when fed to popen(), may be
?S: used to derive the host name.
?S:.
?S:aphostname:
?S: Thie variable contains the command which can be used to compute the
?S: host name. The command is fully qualified by its absolute path, to make
?S: it safe when used by a process with super-user privileges.
?S:.
?C:HAS_GETHOSTNAME (GETHOSTNAME):
?C: This symbol, if defined, indicates that the C program may use the
?C: gethostname() routine to derive the host name.  See also HAS_UNAME
?C: and PHOSTNAME.
?C:.
?C:HAS_UNAME (UNAME):
?C: This symbol, if defined, indicates that the C program may
 use the
?C: uname() routine to derive the host name.  See also HAS_GETHOSTNAME
?C: and PHOSTNAME.
?C:.
?C:PHOSTNAME:
?C: This symbol, if defined, indicates that the C program may use the
```

```
?C: contents of PHOSTNAME as a command to feed to the popen() routine
?C: to derive the host name.  See also HAS_GETHOSTNAME and HAS_UNAME.
?C: Note that the command uses a fully qualified path, so that it is safe
?C: even if used by a process with super-user privileges.
?C:.
?H:#$d_gethname HAS_GETHOSTNAME /**/
?H:#$d_uname HAS_UNAME  /**/
?H:#$d_phostname PHOSTNAME "$aphostname" /* How to get the host name */
?H:.
?T:file val call
?LINT:change i_whoami
: see how we will look up host name
echo " "
if false; then
 : dummy stub to allow use of elif
@if HAS_GETHOSTNAME
elif set gethostname val -f d_gethname; eval $csym; $val; then
 echo 'gethostname() found.' >&4
 d_gethname="$define"
 call=gethostname
@end
@if HAS_UNAME
elif set uname val -f d_uname; eval $csym; $val; then
 if ./xenix; then
  $cat <<'EOM'
uname()
 was found, but you're running xenix, and older versions of xenix
have a broken uname(). If you don't really know whether your xenix is old
enough to have a broken system call, use the default answer.

EOM
  dflt=y
  case "$d_uname" in
  "$define") dflt=n;;
  esac
  rp='Is your uname() broken?'
  . ./myread
  case "$ans" in
  n*) d_uname="$define"; call=uname;;
  esac
 else
  echo 'uname() found.' >&4
  d_uname="$define"
  call=uname
 fi
@end
fi
case "$d_gethname" in
```

```
") d_gethname="$undef";;
esac
case "$d_uname" in
") d_uname="$undef";;
esac
@if PHOSTNAME || MYHOSTNAME
case "$d_uname$d_gethname" in
*define*)
 dflt=n
 cat <<EOM

Every now and then someone has a $call() that lies about the hostname
but can't be fixed for political or economic reasons.  If you wish, I can
@if MYHOSTNAME && PHOSTNAME
pretend $call() isn't there and maybe compile in the hostname or
compute it from the '$phostname' command at run-time.
@elsif MYHOSTNAME
pretend $call() isn't there and maybe compile
 in the hostname.
@elsif PHOSTNAME
pretend $call() isn't there and maybe compute hostname at run-time
thanks to the '$phostname' command.
@elsif WHOAMI
get the hostname from whomai.h (provided you have one).
@else
simply ignore your host name and use someting like "noname" instead.
@end

EOM
 rp="Shall I ignore $call() from now on?"
 . ./myread
 case "$ans" in
 y*) d_uname="$undef" d_gethname="$undef"; $echo $n "Okay...$c";;
 esac;;
esac
@end
@if PHOSTNAME || aphostname
?X: Compute the full path name for the command
case "$phostname" in
") aphostname=";;
*) case "$aphostname" in
 /*) ;;
 *) set X $phostname
  shift
  file=$1
  shift
  file=`./loc $file $file $pth`
  aphostname=`echo $file $*`
```

```
  ;;
 esac
 ;;
esac
@end
@if PHOSTNAME && MYHOSTNAME
case "$d_uname$d_gethname" in
*define*) ;;
*)
 case "$phostname" in
 ") ;;
 *)
  $cat <<EOT

There is no gethostname() or uname() on this system.  You have two
possibilities at this point:

1)  You can have your host name ($myhostname) compiled
 into $package, which
   lets $package start up faster, but makes your binaries non-portable, or
2)  you can have $package use a

 popen("$aphostname","r")

   which will start slower but be more portable.

@ if WHOAMI
Option 1 will give you the option of using whoami.h if you have one.
@ end
If you want option 2 but with a different command, you can edit config.sh at
the end of this shell script.

EOT
  case "$d_phostname" in
  "$define") dflt=n;;
  "$undef")  dflt=y;;
  ")
   case "$d_portable" in
   "$define") dflt=n ;;
   *) dflt=y ;;
   esac;;
  esac
  rp="Do you want your host name compiled in?"
  . ./myread
  case "$ans" in
  n*) d_phostname="$define" ;;
  *) aphostname="; d_phostname="$undef";;
  esac;;
```

```
 esac
 case "$aphostname" in
 ")
@ if WHOAMI
  case "$i_whoami" in
  "$define")
   dflt=y
   $cat <<EOM

No hostname function--you can either use the whoami.h file, which has this line:

 `grep sysname $usrinc/whoami.h`

or you can have the name we came up with earlier
 ($myhostname) hardwired in.
EOM
   rp="Use whoami.h to get hostname?"
   . ./myread
   case "$ans" in
   n*) i_whoami="$undef";;
   esac
   ;;
  "$undef")
   $cat <<EOM
No hostname function and no whoami.h -- hardwiring "$myhostname".
EOM
   ;;
  esac;;
@ else
  echo 'No hostname function -- hardwiring '"$myhostname"'.' >&4;;
@ end
 esac;;
esac
@elsif PHOSTNAME
case "$d_uname$d_gethname" in
*define*) ;;
*)
 case "$phostname" in
 ")
@ if WHOAMI
  case "$i_whoami" in
  "$define")
   $cat <<EOM

No hostname function--we'll use the whoami.h file, which has this line:

 `grep sysname $usrinc/whoami.h`
```

```
EOM
   ;;
  *) echo "There will be no way for $package to get your hostname." >&4;;
  esac;;
@ else
  echo "There will be no way for $package to get your hostname." >&4;;
@ end
 *)
 echo "I'll use 'popen("""$aphostname"', "r")"" to get your hostname." >&4
  ;;
 esac;;
esac
@elsif MYHOSTNAME
case "$d_uname$d_gethname" in
*define*) ;;
*)
@ if WHOAMI
 case "$i_whoami" in
 "$define")
  dflt=y
  $cat
 <<EOM

No hostname function--you can either use the whoami.h file, which has this line:

 `grep sysname $usrinc/whoami.h`

or you can have the name we came up with earlier ($myhostname) hardwired in.
EOM
  rp="Use whoami.h to get hostname?"
  . ./myread
  case "$ans" in
  n*) i_whoami="$undef";;
  esac
  ;;
 "$undef")
  echo 'No whoami.h--hardwiring "'$myhostname'".' >&4;;
 esac;;
@ else
 echo 'Hardwiring "'$myhostname'".' >&4;;
@ end
esac
@end
case "$d_phostname" in
") d_phostname="$undef";;
esac
```

Found in path(s):

* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_gethname.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_scalbn: Inlibc
?MAKE: -pick add $@ %<
?S:d_scalbn:
?S: This variable conditionally defines the HAS_SCALBN symbol, which
?S: indicates to the C program that the scalbn() routine is available.
?S:.
?C:HAS_SCALBN:
?C: This symbol, if defined, indicates that the scalbn routine is
?C: available to multiply floating-point number by integral power
?C: of radix.
?C:.
?H:#$d_scalbn HAS_SCALBN  /**/
?H:.
?LINT:set d_scalbn
: see if scalbn exists
set scalbn d_scalbn
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_scalbn.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Setprefixvar.U,v 3.0 2006/04/01 17:25:29 hmbrand $
?RCS:
?RCS: Copyright (c) 2006-2006, H.Merijn Brand & Nicholas Clark
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:   You may distribute under the terms of either the GNU General Public
?RCS:   License or the Artistic License, as specified in the README file.
?RCS:
?X:
?X: This unit sets up the scripts installprefix and setprefixvar, so code
?X: in other parts can be more simple and maintainable
?X:
?MAKE:Setprefixvar: Myread Getfile startsh eunicefix test \
 prefix prefixexp installprefix installprefixexp
?MAKE: -pick add $@ %<
```

```
?LINT:extern prefixvar
?X: metalint still sees "`\$${prefixvar}exp`" as variable :(
?T:prefixvarexp
?F:./setprefixvar
?F:./installprefix
: Perform
 the prefixexp/installprefixexp correction if necessary
cat <<EOS >installprefix
$startsh
EOS
cat <<'EOSC' >>installprefix
: Change installation prefix, if necessary.
if $test X"$prefix" != X"$installprefix"; then
   eval "install${prefixvar}=\`echo \$${prefixvar}exp | sed \"s#^\$prefixexp#\$installprefixexp#\"\`"
else
   eval "install${prefixvar}=\"\$${prefixvar}exp\""
fi
EOSC
chmod +x installprefix
$eunicefix installprefix

: Set variables such as privlib and privlibexp from the output of ./getfile
: performing the prefixexp/installprefixexp correction if necessary.
cat <<EOS >setprefixvar
$startsh
EOS
cat <<'EOSC' >>setprefixvar
eval "${prefixvar}=\"\$ans\""
eval "${prefixvar}exp=\"\$ansexp\""
. ./installprefix
EOSC
chmod +x setprefixvar
$eunicefix setprefixvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/Setprefixvar.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_llround: Inlibc
?MAKE: -pick add $@ %<
?S:d_llround:
?S: This variable conditionally defines the HAS_LLROUND symbol, which
?S: indicates to the C program that the llround() routine is available
?S: to return the long long value nearest to x.
```

```
?S:.
?C:HAS_LLROUND:
?C: This symbol, if defined, indicates that the llround routine is
?C: available to return the nearest long long value.
?C:.
?H:#$d_llround HAS_LLROUND  /**/
?H:.
?LINT:set d_llround
: see if llround exists
set llround d_llround
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_llround.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sockopt.U,v $
?RCS: Revision 3.0.1.1  1995/07/25  14:16:14  ram
?RCS: patch56: obsoleted KEEPALIVE in favor of CAN_KEEPALIVE for consistency
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_keepalive: cat rm contains +cc +ccflags socketlib sockethdr \
 d_oldsock libs Oldconfig Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_keepalive:
?S: This symbol conditionally defines CAN_KEEPALIVE which indicates to the C
?S: program that setsockopt
 SO_KEEPALIVE will work properly.
?S:.
?C:CAN_KEEPALIVE (KEEPALIVE):
?C: This symbol if defined indicates to the C program that the SO_KEEPALIVE
?C: option of setsockopt() will work as advertised in the manual.
?C:.
?H:#$d_keepalive CAN_KEEPALIVE  /**/
?H:.
```

```
?F:!socket
?LINT:set d_keepalive
: see if setsockopt with SO_KEEPALIVE works as advertised
echo " "
case "$d_oldsock" in
"$undef")
 if $contains SO_KEEPALIVE `./findhdr sys/socket.h` \
  /dev/null >/dev/null 2>&1
 then
  echo "OK, let's see if SO_KEEPALIVE works as advertised..." >&4
  $cat > socket.c <<EOP
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
#include <netdb.h>

int main()
{
 int s = socket(AF_INET, SOCK_STREAM, 0);
 if (s == -1)
  exit(1);
 if (-1 == setsockopt(s, SOL_SOCKET, SO_KEEPALIVE, 0, 0))
  exit(2);
 exit(0);
}
EOP
  if $cc $ccflags $sockethdr -o socket socket.c $libs \
   $socketlib >/dev/null 2>&1; then
   ./socket >/dev/null 2>&1
   case $? in
   0) echo "Yes, it does!"
    val="$define";;
   1)
 $cat <<EOM
(Something went wrong -- Assuming SO_KEEPALIVE is broken)
EOM
    val="$undef";;
   2) echo "No, it doesn't.  Don't trust your manuals!!"
    val="$undef";;
   esac
  else
   cat <<EOM
(I can't compile the test program -- Assuming SO_KEEPALIVE is broken)
EOM
   val="$undef"
  fi
 else
  echo "Strange!! You have BSD 4.2 sockets but no SO_KEEPALIVE option."
```

```
  val="$undef"
 fi;;
*) cat <<EOM
As you have an old socket interface, you can't have heard of SO_KEEPALIVE.
EOM
 val="$undef";;
esac
set d_keepalive
eval $setvar
$rm -f socket socket.c
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/sockopt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998, Jarkko Hietaniemi
?RCS:
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?RCS: of the source tree for dist 3.0.
?X:
?X: Useless unit dropped.  Use randfunc instead.
?X:
?LINT:empty
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/randbits.U
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```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: usenm.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:26:40  ram
?RCS: patch61: don't use nm with the GNU C library
```

```
?RCS: patch61: added support for Linux shared libs
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:usenm runnm nm_opt nm_so_opt: cat test Myread Oldconfig grep \
 d_gnulibc nm egrep rsrc osname Guess
?MAKE: -pick add $@ %<
?S:usenm:
?S: This variable contains 'true' or 'false' depending whether the
?S: nm extraction is wanted
 or not.
?S:.
?S:runnm:
?S: This variable contains 'true' or 'false' depending whether the
?S: nm extraction should be performed or not, according to the value
?S: of usenm and the flags on the Configure command line.
?S:.
?S:nm_opt:
?S: This variable holds the options that may be necessary for nm.
?S:.
?S:nm_so_opt:
?S: This variable holds the options that may be necessary for nm
?S: to work on a shared library but that can not be used on an
?S: archive library.  Currently, this is only used by Linux, where
?S: nm --dynamic is *required* to get symbols from an ELF library which
?S: has been stripped, but nm --dynamic is *fatal* on an archive library.
?S: Maybe Linux should just always set usenm=false.
?S:.
: see if nm is to be used to determine whether a symbol is defined or not
?X: If there is enough inquiries, it might be worth to wait for the nm
?X: extraction. Otherwise, the C compilations might be a better deal.
?X:
?X: Don't bother if we're using GNU libc -- skimo
case "$usenm"
 in
")
 dflt="
 case "$d_gnulibc" in
 "$define")
  echo " "
  echo "$nm probably won't work on the GNU C Library." >&4
  dflt=n
  ;;
 esac
 case "$dflt" in
 ")
  if $test "$osname" = aix -a ! -f /lib/syscalls.exp; then
```

```
  echo " "
  echo "Whoops!  This is an AIX system without /lib/syscalls.exp!" >&4
  echo "'nm' won't be sufficient on this system." >&4
  dflt=n
 fi
 ;;
esac
case "$dflt" in
")
 if ./gnu; then
  echo " "
  echo "Hmm...  A GNU system without a GNU C Library?  Weird..." >&4
  dflt=n
 else
  dflt=`$egrep 'inlibc|csym' $rsrc/Configure | wc -l 2>/dev/null`
  if $test $dflt -gt 20; then
   dflt=y
  else
   dflt=n
  fi
 fi
 ;;
esac
;;
*)
 case "$usenm" in
 true|$define) dflt=y;;
 *) dflt=n;;
 esac
 ;;
esac
$cat <<EOM

I can use $nm to extract the symbols from your C libraries. This
is a time consuming task which may generate huge output on the disk (up
to 3 megabytes) but that should make the symbols extraction faster. The
alternative is to skip the
 'nm' extraction part and to compile a small
test program instead to determine whether each symbol is present. If
you have a fast C compiler and/or if your 'nm' output cannot be parsed,
this may be the best solution.

EOM
rp='Shall I use nm to extract C symbols from the libraries?'
. ./myread
case "$ans" in
[Nn]*) usenm=false;;
*) usenm=true;;
```

```
esac

?X: Name extraction is to be run if 'nm' usage is wanted and if no -r flag
?X: was provided to configure (in which case we simply re-use the previous
?X: values).
runnm=$usenm
case "$reuseval" in
true) runnm=false;;
esac

: nm options which may be necessary
case "$nm_opt" in
") if $test -f /mach_boot; then
  nm_opt="  # Mach
 elif $test -d /usr/ccs/lib; then
  nm_opt='-p'  # Solaris (and SunOS?)
 elif $test -f /dgux; then
  nm_opt='-p'  # DG-UX
 elif $test -f /lib64/rld; then
  nm_opt='-p'  # 64-bit Irix
 else
  nm_opt="
 fi;;
esac

?X: nm options which may be necessary for shared libraries but illegal
?X: for archive libraries.  Thank you,
 Linux.
case "$nm_so_opt" in
") case "$osname" in
 *linux*)
  if $nm --help | $grep 'dynamic' > /dev/null 2>&1; then
   nm_so_opt='--dynamic'
  fi
  ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/usenm.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_log2: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_log2:
?S: This variable conditionally defines the HAS_LOG2 symbol, which
?S: indicates to the C program that the log2() routine is available
?S: to compute log base two.
?S:.
?C:HAS_LOG2:
?C: This symbol, if defined, indicates that the log2 routine is
?C: available to do the log2 function.
?C:.
?H:#$d_log2 HAS_LOG2  /**/
?H:.
?LINT:set d_log2
: see if log2 exists
set log2 d_log2
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_log2.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dup2.C,v 3.0.1.1 1994/01/24 13:58:37 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* Original Author: Larry Wall <lwall@netlabs.com>
*
* $Log: dup2.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:37  ram
* patch16: created
*
*/
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/dup2.C
No license file was found, but licenses were detected in source scan.

```
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```

```
?RCS:
?MAKE:d_log1p: Inlibc
?MAKE: -pick add $@ %<
?S:d_log1p:
?S: This variable conditionally defines the HAS_LOG1P symbol, which
?S: indicates to the C program that the logp1() routine is available
?S: to compute log(1 + x) for values of x close to zero.
?S:.
?C:HAS_LOG1P:
?C: This symbol, if defined, indicates that the log1p routine is
?C: available to do the logarithm of 1 plus argument function.
?C:.
?H:#$d_log1p HAS_LOG1P  /**/
?H:.
?LINT:set d_log1p
: see if log1p exists
set log1p d_log1p
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_log1p.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isnan: Inlibc cat Compile rm_try Setvar
?MAKE: -pick add $@ %<
?S:d_isnan:
?S: This variable conditionally defines the HAS_ISNAN symbol, which
?S: indicates to the C program that the isnan() routine is available.
?S:.
?C:HAS_ISNAN:
?C: This symbol, if defined, indicates that the isnan routine is
?C: available to check whether a double is a NaN.
?C:.
?H:#$d_isnan HAS_ISNAN  /**/
?H:.
?LINT:set d_isnan
: check for isnan
echo "Checking to see if you have isnan..." >&4
$cat >try.c <<EOCP
#include <math.h>
```

```
int main() { return isnan(0.0); }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have isnan."
else
 val="$undef"
 echo "You do not have isnan."
fi
$rm_try
set d_isnan
eval $setvar
```

Found
 in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_isnan.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cpp_stuff.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:30:48  ram
?RCS: patch61: added cute quoting trick for wild stringify support
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:08:24  ram
?RCS: patch36: now uses cppstdin instead of plain cpp for consistency (ADO)
?RCS: patch36: remove temporary files when done
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:36  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:cpp_stuff cpp_quote: cat contains cppstdin cppflags cppminus rm Warn \
 package
?MAKE: -pick
 add $@ %<
?S:cpp_stuff:
?S: This variable contains an identification of the catenation mechanism
?S: used by the C preprocessor.
```

```
?S:.
?S:cpp_quote:
?S: This variable is set to either "" or " depending on whether the
?S: pre-processor pre-dates ANSI or not.  It is used in the production of
?S: the SQuoTe() and EQuoTe() macros, and was introduced to overcome a bug
?S: in gcc 3.x whereby the pre-processor complained loudly about the
?S: unterminated strings.
?S:.
?C:CAT2:
?C: This macro catenates 2 tokens together.
?C:.
?C:CAT3:
?C: This macro catenates 3 tokens together.
?C:.
?C:CAT4:
?C: This macro catenates 4 tokens together.
?C:.
?C:CAT5:
?C: This macro catenates 5 tokens together.
?C:.
?C:STRINGIFY:
?C: This macro surrounds its token with double quotes.
?C:.
?C:SCAT2:
?C: This macro catenates 2 tokens together and stringifies the result.
?C:.
?C:SCAT3:
?C: This macro catenates 3 tokens together and stringifies the result.
?C:.
?C:SCAT4:
?C: This macro catenates 4 tokens
 together and stringifies the result.
?C:.
?C:SCAT5:
?C: This macro catenates 5 tokens together and stringifies the result.
?C:.
?H:?%<:#if $cpp_stuff == 1
?H:?CAT2:#define CAT2(a,b)a/**/b
?H:?CAT3:#define CAT3(a,b,c)a/**/b/**/c
?H:?CAT4:#define CAT4(a,b,c,d)a/**/b/**/c/**/d
?H:?CAT5:#define CAT5(a,b,c,d,e)a/**/b/**/c/**/d/**/e
?H:?STRINGIFY:#define STRINGIFY(a)"a"
?H:?%<:#define SQuoTe(a)${cpp_quote}a
?H:?%<:#define EQuoTe(a)a${cpp_quote}
?H:?SCAT2:#define SCAT2(a,b)EQuoTe(SQuoTe(a)b)
?H:?SCAT3:#define SCAT3(a,b,c)EQuoTe(SQuoTe(a)b/**/c)
?H:?SCAT4:#define SCAT4(a,b,c,d)EQuoTe(SQuoTe(a)b/**/c/**/d)
?H:?SCAT5:#define SCAT5(a,b,c,d,e)EQuoTe(SQuoTe(a)b/**/c/**/d/**/e)
```

```
?H:?%<:#endif
?H:?%<:#if $cpp_stuff == 42
?X: The additional level of indirection enables these macros to be
?X: used as arguments to other macros.  See K&R 2nd ed., page 231.
?H:?%<:#define CaTiFy(a,b) a ## b
?H:?%<:#define CAT2(a,b) CaTiFy(a,b)
?H:?CAT3:#define CAT3(a,b,c) CAT2(CaTiFy(a,b),c)
?H:?CAT4:#define CAT4(a,b,c,d)
 CAT2(CaTiFy(a,b), CaTiFy(c,d))
?H:?CAT5:#define CAT5(a,b,c,d,e) CAT2(CAT2(CaTiFy(a,b), CaTiFy(c,d)), e)
?H:?%<:#define StGiFy(a)# a
?H:?STRINGIFY:#define STRINGIFY(a)StGiFy(a)
?H:?SCAT2:#define SCAT2(a,b)StGiFy(a) StGiFy(b)
?H:?SCAT3:#define SCAT3(a,b,c)StGiFy(a) StGiFy(b) StGiFy(c)
?H:?SCAT4:#define SCAT4(a,b,c,d)StGiFy(a) StGiFy(b) StGiFy(c) StGiFy(d)
?H:?SCAT5:#define SCAT5(a,b,c,d,e)StGiFy(a) StGiFy(b) StGiFy(c) StGiFy(d) StGiFy(e)
?H:?%<:#endif
?H:?%<:#if $cpp_stuff != 1 && $cpp_stuff != 42
?H:?%<:#include "Bletch: How does this C preprocessor catenate tokens?"
?H:?%<:#endif
?H:.
?W:%<:CAT2 CAT3 CAT4 CAT5 STRINGIFY SCAT2 SCAT3 SCAT4 SCAT5
?F:!cpp_stuff.c
?LINT:known StGiFy EQuoTe SQuoTe CaTiFy
: how do we catenate cpp tokens here?
echo " "
echo "Checking to see how your cpp does stuff like catenate tokens..." >&4
cpp_quote="
$cat >cpp_stuff.c <<'EOCP'
#define RCAT(a,b)a/**/b
#define ACAT(a,b)a ## b
RCAT(Rei,ser)
ACAT(Cir,cus)
EOCP
$cppstdin $cppflags $cppminus <cpp_stuff.c >cpp_stuff.out
 2>&1
if $contains 'Circus' cpp_stuff.out >/dev/null 2>&1; then
 echo "Oh!  Smells like ANSI's been here."
 echo "We can catify or stringify, separately or together!"
 cpp_stuff=42
elif $contains 'Reiser' cpp_stuff.out >/dev/null 2>&1; then
 echo "Ah, yes!  The good old days!"
 cpp_stuff=1
 $cat >cpp_stuff.c <<'EOCP'
#define SQuoTe(a)"a
#define EQuoTe(a)a"
#define CAT2(a,b)EQuoTe(SQuoTe(a)b)
CAT2(Vic,tory)
```

```
EOCP
 $cppstdin $cppflags $cppminus <cpp_stuff.c >cpp_stuff.out 2>&1
 if $contains '"Victory"' cpp_stuff.out >/dev/null 2>&1; then
  echo "I'll resort to a cute trick to also be able to stringify."
  cpp_quote=""
 else
  $cat <<EOM
However, in the good old days we don't know how to stringify and
catify at the same time...
@if SCAT2 || SCAT3 || SCAT4 || SCAT5
You might have to edit the values of the SCAT[2-5] macros in config.h...
@else
Hopefully, $package does not need this feature.
@end
EOM
 fi
else
 ./warn <<EOM
I can't seem to be able to catenate tokens with your cpp.
@if
 CAT2 || CAT3 || CAT4 || CAT5 || SCAT2 || SCAT3 || SCAT4 || SCAT5
You're going to have to edit the values of the following
macros in config.h:

@if CAT2 || CAT3 || CAT4 || CAT5
 CAT[2-5]
@end
@if SCAT2 || SCAT3 || SCAT4 || SCAT5
 SCAT[2-5]
@end

in order to let me compile.
@end
EOM
 cpp_stuff="/* Help! How do we handle cpp_stuff? */*/"
fi
$rm -f cpp_stuff.*
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/cpp_stuff.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Loc_sed.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?X: This is used in perl.c.
?MAKE:full_sed: sed
?MAKE: -pick add $@ %<
?S:full_sed:
?S: This variable contains the full pathname to 'sed', whether or
?S: not the user has specified 'portability'.  This is only used
?S: in the compiled C program, and we assume that all systems which
?S: can share this executable will have the same full pathname to
?S: 'sed.'
?S:.
?X: Yes, I know about the C symbol PORTABLE, but I think sed
?X: is
 unlikely to move, and I'm too lazy to add all the
?X: #ifdef PORTABLE sections to the perl source.
?X:
?C:LOC_SED:
?C: This symbol holds the complete pathname to the sed program.
?C:.
?H:#define LOC_SED  "$full_sed" /**/
?H:.
: Store the full pathname to the sed program for use in the C program
full_sed=$sed
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Loc_sed.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fdim: Inlibc
?MAKE: -pick add $@ %<
?S:d_fdim:
?S: This variable conditionally defines the HAS_FDIM symbol, which
?S: indicates to the C program that the fdim() routine is available.
?S:.
?C:HAS_FDIM:
?C: This symbol, if defined, indicates that the fdim routine is
?C: available to do the positive difference function.
?C:.
?H:#$d_fdim HAS_FDIM  /**/
```

```
?H:.
?LINT:set d_fdim
: see if fdim exists
set fdim d_fdim
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fdim.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: errnolist.U,v 3.0.1.2 1997/02/28 15:48:01 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: errnolist.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:48:01  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: likewise for .o replaced by $_o
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:10:54  ram
?RCS: patch16: created
?RCS:
?MAKE:errnolist errnolist_SH errnolist_a errnolist_c errnolist_o: cat \
 Compile +d_sysernlst _a _o
?MAKE: -pick add $@ %<
?S:errnolist:
?S: This variable holds the base name of a file containing the
?S: definition
 of the sys_errnolist array, if the C library
?S: doesn't provide it already.  Otherwise, its value is empty.
?S: The following lines should be included in your Makefile.SH:
?S:
?S:  case "$errnolist" in
?S:  ") ;;
?S:  *)
?S:   $spitshell >>Makefile <<!GROK!THIS!
?S:  $errnolist_c: $errnolist_SH $errnolist_a
?S:   sh ./$errnolist_SH
?S:
?S:  !GROK!THIS!
?S:   ;;
```

```
?S:  esac
?S:
?S: You may define the 'errnolist' variable in your Myinit.U if you
?S: wish to override its default value "errnolist".
?S:.
?S:errnolist_SH:
?S: This is the name of a file which will generate errnolistc.
?S:.
?S:errnolist_a:
?S: This is the name of the awk script called by errnolist_SH.
?S:.
?S:errnolist_c:
?S: This is the name of a generated C file which provides the
?S: definition of the sys_errnolist array.
?S:.
?S:errnolist_o:
?S: This is the name of the object file which provides the
?S: definition of the sys_errnolist array, if the C library
?S: doesn't provide it already.  Otherwise, its value is
 empty.
?S:.
?INIT:errnolist=errnolist
: check for sys_errnolist
@if d_sysernlst || HAS_SYS_ERRNOLIST
case "$d_sysernlst" in
"$define")
   errnolist=''
   errnolist_SH=''
   errnolist_a=''
   errnolist_c=''
   errnolist_o=''
 ;;
*)
 echo " "
 echo "I'll make sure your Makefile provides sys_errnolist in $errnolist.c"
   errnolist_SH=$errnolist.SH
   errnolist_a=$errnolist$_a
   errnolist_c=$errnolist.c
   errnolist_o=$errnolist$_o
 ;;
esac
@else
echo " "
$cat <<EOM
Checking to see if your C library provides us with sys_errnolist[]...
EOM
$cat >errnolist.c <<'EOCP'
extern char *sys_errnolist[];
```

```
int main() {
   char *p0 = sys_errnolist[0];
   char *p1 = sys_errnolist[1];

   return (p0 == p1); /* Make sure they're not optimized away */
}
EOCP
set errnolist
if eval $compile; then
   echo "It does."
   errnolist=''
   errnolist_SH=''
   errnolist_a=''
   errnolist_c=''
   errnolist_o=''
else
 echo "I'll make sure your Makefile provides sys_errnolist in $errnolist.c"
   errnolist_SH=$errnolist.SH
    errnolist_a=$errnolist$_a
   errnolist_c=$errnolist.c
   errnolist_o=$errnolist$_o
fi
@end
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/errnolist.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setruid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setruid.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setruid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setruid:
?S: This variable conditionally defines the HAS_SETRUID symbol, which
?S: indicates to the C program that the setruid() routine is available
```

```
?S: to change the real uid of the current program.
?S:.
?C:HAS_SETRUID (SETRUID):
?C: This symbol, if defined, indicates that the setruid
 routine is available
?C: to change the real uid of the current program.
?C:.
?H:#$d_setruid HAS_SETRUID  /**/
?H:.
?LINT:set d_setruid
: see if setruid exists
set setruid d_setruid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setruid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_j0 d_j0l: Inlibc
?MAKE: -pick add $@ %<
?S:d_j0:
?S: This variable conditionally defines the HAS_J0 symbol, which
?S: indicates to the C program that the j0() routine is available.
?S:.
?S:d_j0l:
?S: This variable conditionally defines the HAS_J0L symbol, which
?S: indicates to the C program that the j0l() routine is available.
?S:.
?C:HAS_J0:
?C: This symbol, if defined, indicates to the C program that the
?C: j0() function is available for Bessel functions of the first
?C: kind of the order zero, for doubles.
?C:.
?C:HAS_J0L:
?C: This symbol, if defined, indicates to the C program that the
?C: j0l() function is available for Bessel functions of the first
?C: kind of the order zero, for long doubles.
?C:.
?H:#$d_j0 HAS_J0  /**/
?H:#$d_j0l HAS_J0L  /**/
?H:.
?LINT:set
 d_j0
?LINT:set d_j0l
```

```
: see if j0 exists
set j0 d_j0
eval $inlibc

: see if j0l exists
set j0l d_j0l
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_j0.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d__fwalk: Inlibc
?MAKE: -pick add $@ %<
?S:d__fwalk:
?S: This variable conditionally defines HAS__FWALK if _fwalk() is
?S: available to apply a function to all the file handles.
?S:.
?C:HAS__FWALK:
?C: This symbol, if defined, indicates that the _fwalk system call is
?C: available to apply a function to all the file handles.
?C:.
?H:#$d__fwalk HAS__FWALK  /**/
?H:.
?LINT:set d__fwalk
: see if _fwalk exists
set fwalk d__fwalk
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d__fwalk.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_ieeefp.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
```

```
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_ieeefp: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_ieeefp:
?S: This variable conditionally defines the I_IEEEFP symbol, and indicates
?S: whether a C program should include <ieeefp.h>.
?S:.
?C:I_IEEEFP:
?C: This symbol, if defined, indicates that <ieeefp.h> exists and
?C: should be included.
?C:.
?H:#$i_ieeefp I_IEEEFP  /**/
?H:.
?LINT:set i_ieeefp
: see if this is a ieeefp.h system
case "$i_ieeefp" in
" ) set ieeefp.h i_ieeefp
   eval $inhdr
   ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_ieeefp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2012-2012, H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: H.Merijn Brand
?RCS:
?MAKE:d_isblank: cc cat ccflags ldflags rm libs Setvar
?MAKE: -pick add $@ %<
?S:d_isblank:
?S: This variable conditionally defines the HAS_ISBLANK constant,
?S: which indicates to the C program that isblank() is available.
?S:.
?C:HAS_ISBLANK:
?C: This manifest constant lets the C program know that isblank
?C: is available.
```

```
?C:.
?H:#$d_isblank HAS_ISBLANK  /**/
?H:.
?LINT:set d_isblank
?X: Can't use Inlibc because isblank() might be a macro.
: Look for isblank
echo " "
$cat >isblank.c <<'EOCP'
#include
 <stdio.h>
#include <ctype.h>
int main() {
 int c = ' ';
 if (isblank(c))
  return 0 ;
 else
  return 1 ;
}
EOCP
if $cc $ccflags $ldflags -o isblank isblank.c $libs >/dev/null 2>&1 ; then
 echo "isblank() found." >&4
 val="$define"
else
 echo "isblank() NOT found." >&4
 val="$undef"
fi
set d_isblank
eval $setvar
$rm -f isblank*
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_isblank.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: baserev.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: baserev.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:24  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?MAKE:baserev: Null
?MAKE: -pick wipe $@ %<
?S:baserev:
?S: The base revision level of this package, from the .package file.
?S:.
: set the base revision
baserev=<BASEREV>
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/baserev.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_memalign.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memalign.U,v $
?RCS:
?MAKE:d_memalign: Inlibc
?MAKE: -pick add $@ %<
?S:d_memalign:
?S: This variable conditionally defines the HAS_MEMALIGN symbol, which
?S: indicates to the C program that the memalign() routine is available.
?S:.
?C:HAS_MEMALIGN :
?C: This symbol, if defined, indicates that the memalign routine is
?C: available to allocate aligned memory.
?C:.
?H:#$d_memalign HAS_MEMALIGN  /**/
?H:.
?LINT:set d_memalign
: see if memalign exists
set
 memalign d_memalign
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_memalign.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Protochk.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X: This unit generates a ./protochk script that is used internally
?X: by Configure to check if this system will accept a particular
?X: prototype.
?X:
?X: To use it, say something like:
?X: hdrs="$define sys/types.h
?X:  $i_systime sys/time.h
?X:  $i_sysselct sys/select.h
?X:  $d_socket sys/socket.h"
?X: $xxx='fd_set *'
?X: try='extern int select _((int, $xxx, $xxx, $xxx, struct timeval *'));'
?X: if ./protochk "$try" $hdrs; then
?X:  echo "Your system accepts $xxx for the arguments to select."
?X: fi
?X:  (Of course select is harder, since the first arg can be int,
?X: size_t, or unsigned long, and the last arg may or may not have a
?X: 'const' before the 'struct timeval' :-(.  Also SunOS
 4.1.3 doesn't
?X: provide a select prototype so the compiler accepts anything :-).
?X:
?X: The C compiler on QNX warns about invalid pointer types, but
?X: still exits with a 0 exit status, so it's not much help here.
?X: (It does correctly detect incorrect non-pointer arguments).
?X: Still, since QNX is a POSIX-ish system, just make your first
?X: a POSIX-ish one, and QNX will probably accept it.
?X:
?X: For determining argument types, your compiler must support
?X: prototypes, and the header files must use them.  Determining
?X: return types, however, is easier.  Just give an ridiculous
?X: return type, something like
?X: ./protochk 'extern int atof _((void));' $i_stdlib stdlib.h
?X: that should surely fail if atof() is defined in <stdlib.h>
?X:
?X: There is also an 'escape' hatch built in.  If you have a pair
?X: of args   'literal 'stuff' then 'stuff' gets included literally
?X: into the test program.  This could be useful for doing something
?X: like
?X: hdrs="$define stdio.h
?X:  $define
```

```
 sys/types.h"
?X: ./protochk 'extern int fsetpos(FILE *, Fpos_t);' $args \
?X:   'literal' '#define Fpos_t long long'
?X: but you have to be really careful about the spaces in "literal".
?X:
?X:  Andy Dougherty   Feb. 1998
?MAKE:Protochk: cat rm_try startsh eunicefix +cc +optimize +ccflags \
 i_pthread usethreads
?MAKE: -pick add $@ %<
?F:./protochk
?X: Comfort metalint.  All these are actually used in the protochk script.
?T:foo status pthread_h_done
?LINT: change cc optimize ccflags define rm_try
?LINT: extern pthread_h_first
?LINT: change pthread_h_first
?LINT: change usethreads
?LINT: change i_pthread
: define a function to check prototypes
$cat > protochk <<EOSH
$startsh
cc="$cc"
optimize="$optimize"
ccflags="$ccflags"
define="$define"
rm_try="$rm_try"
usethreads=$usethreads
i_pthread=$i_pthread
pthread_h_first=$pthread_h_first
EOSH

$cat >> protochk <<'EOSH'

$rm_try
foo="$1"
shift
while test $# -ge 2; do
 case "$1" in
  $define) echo "#include <$2>" >> try.c ;;
  literal)
 echo "$2" >> try.c ;;
 esac
   # Extra magic for the benefit of systems that need pthread.h
   # to be included early to correctly detect threadsafe functions.
   # Such functions must guarantee themselves, though, that the usethreads
   # and i_pthread have been defined, before calling protochk.
   if test "$usethreads" = "$define" -a "$i_pthread" = "$define" -a "$pthread_h_first" = "$define" -a
"$pthread_h_done" = ""; then
 echo "#include <pthread.h>" >> try.c
```

```
 pthread_h_done=yes
   fi
   shift 2
done
cat >> try.c <<'EOCP'
#define _(args) args
EOCP
echo "$foo" >> try.c
?X: Just so we have something to compile.
echo 'int no_real_function_has_this_name _((void)) { return 0; }' >> try.c
$cc $optimize $ccflags -c try.c > /dev/null 2>&1
status=$?
$rm_try
exit $status
EOSH
chmod +x protochk
$eunicefix protochk
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/Protochk.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Magic_h.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Magic_h.U,v $
?RCS: Revision 3.0.1.2  1993/11/10  17:32:58  ram
?RCS: patch14: forgot to mention Id in the dependencies
?RCS:
?RCS: Revision 3.0.1.1  1993/10/16  13:46:59  ram
?RCS: patch12: created for ?M: lines support (magic symbols)
?RCS:
?X:
?X: This file ends up producing the confmagic.h include, which is used to
?X: automagically remap some C symbols via cpp redefinitions.
?X:
?X: The file ./Magic_h below contains all the ?M: lines extracted out
 of all
?X: the units.  Metaconfig itself adds the final #endif statement.
?X: Note that this code isn't included into Configure, but must be shipped with.
```

```
?X:
?MAKE:Magic_h: Id Config_h
?MAKE: -pick cm_h_weed $@ %<
?MAKE: -pick cm_h_weed $@ ./Magic_h
?LINT:nocomment
/*
* This file was produced by running metaconfig and is intended to be included
* after config.h and after all the other needed includes have been dealt with.
*
* This file may be empty, and should not be edited. Rerun metaconfig instead.
* If you wish to get rid of this magic, remove this file and rerun metaconfig
* without the -M option.
*
*  $Id: Magic_h.U 1 2006-08-24 12:32:52Z rmanfredi $
*/

#ifndef _confmagic_h_
#define _confmagic_h_
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Magic_h.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_fcntl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_fcntl.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:18  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_fcntl: h_fcntl h_sysfile +i_sysfile Inhdr Setvar
?MAKE: -pick add $@ %<
?S:i_fcntl:
?S: This variable controls the value of I_FCNTL (which tells
?S: the C program to include <fcntl.h>).
?S:.
?C:I_FCNTL (HDR_O_STUFF FCNTL):
?C: This manifest constant tells the C program to include <fcntl.h>.
?C:.
?H:#$i_fcntl I_FCNTL /**/
```

```
?H:.
?T:val
?X:
 Make line lists +i_sysfile to ensure tests for <sys/file.h> will be
?X: conducted prior tests for <fcntl.h>, hece making sure the h_sysfile
?X: variable is correctly set when we reach that unit.
?LINT:set i_fcntl
?LINT:use i_sysfile
?LINT:change h_fcntl
: see if fcntl.h is there
val=''
set fcntl.h val
eval $inhdr

: see if we can include fcntl.h
case "$val" in
"$define")
 echo " "
 if $h_fcntl; then
  val="$define"
  echo "We'll be including <fcntl.h>." >&4
 else
  val="$undef"
  if $h_sysfile; then
 echo "We don't need to include <fcntl.h> if we include <sys/file.h>." >&4
  else
   echo "We won't be including <fcntl.h>." >&4
  fi
 fi
 ;;
*)
 h_fcntl=false
 val="$undef"
 ;;
esac
set i_fcntl
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_fcntl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fpgetround: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_fpgetround:
?S: This variable conditionally defines HAS_FPGETROUND if fpgetround()
?S: is available to get the floating point rounding mode.
?S:.
?C:HAS_FPGETROUND:
?C: This symbol, if defined, indicates that the fpgetround routine is
?C: available to get the floating point rounding mode.
?C:.
?H:#$d_fpgetround HAS_FPGETROUND  /**/
?H:.
?LINT:set d_fpgetround
: see if fpgetround exists
set fpgetround d_fpgetround
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fpgetround.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getfsstat : Inlibc
?MAKE: -pick add $@ %<
?S:d_getfsstat:
?S: This variable conditionally defines the HAS_GETFSSTAT symbol, which
?S: indicates to the C program that the getfsstat() routine is available.
?S:.
?C:HAS_GETFSSTAT:
?C: This symbol, if defined, indicates that the getfsstat routine is
?C: available to stat filesystems in bulk.
?C:.
?H:#$d_getfsstat HAS_GETFSSTAT  /**/
?H:.
?LINT:set d_getfsstat
: see if getfsstat exists
set getfsstat d_getfsstat
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getfsstat.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_fp_class.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_fp_class: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_fp_class:
?S: This variable conditionally defines the I_FP_CLASS symbol, and indicates
?S: whether a C program should include <fp_class.h>.
?S:.
?C:I_FP_CLASS:
?C: This symbol, if defined, indicates that <fp_class.h> exists and
?C: should be included.
?C:.
?H:#$i_fp_class I_FP_CLASS  /**/
?H:.
?LINT:set i_fp_class
: see if this is a fp_class.h system
set fp_class.h i_fp_class
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_fp_class.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_flockproto: Hasproto i_sysfile
?MAKE: -pick add $@ %<
?S:d_flockproto:
?S: This variable conditionally defines the HAS_FLOCK_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the flock() function.  Otherwise, it is
?S: up to the program to supply one.
```

```
?S:.
?C:HAS_FLOCK_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the flock() function.  Otherwise, it is up
?C: to the program to supply one.  A good guess is
?C:  extern int flock(int,
 int);
?C:.
?H:#$d_flockproto HAS_FLOCK_PROTO /**/
?H:.
?LINT:set d_flockproto
: see if prototype for flock is available
echo " "
set d_flockproto flock $i_sysfile sys/file.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_flockproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_castneg.U,v 3.0.1.2 1995/05/12 12:11:21 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_castneg.U,v $
?RCS: Revision 3.0.1.2  1995/05/12  12:11:21  ram
?RCS: patch54: made sure cc and ccflags are conditional dependencies
?RCS: patch54: added improved test case for Interactive Unix
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:10:50  ram
?RCS: patch36: don't forget to tell user about compilation failures (ADO)
?RCS: patch36: declare signal handler correctly using 'signal_t' (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:47  ram
?RCS: Baseline
 for dist 3.0 netwide release.
?RCS:
?X:
?X: Can the compiler cast negative / odd floats to unsigned values.
?X:
?MAKE:d_castneg castflags: cat Compile rm_try Setvar signal_t run i_stdlib
```

```
?MAKE: -pick add $@ %<
?S:d_castneg:
?S: This variable conditionally defines CASTNEG, which indicates
?S: whether the C compiler can cast negative float to unsigned.
?S:.
?S:castflags:
?S: This variable contains a flag that precise difficulties the
?S: compiler has casting odd floating values to unsigned long:
?S:  0 = ok
?S:  1 = couldn't cast < 0
?S:  2 = couldn't cast >= 0x80000000
?S:  4 = couldn't cast in argument expression list
?S:.
?C:CASTNEGFLOAT:
?C: This symbol is defined if the C compiler can cast negative
?C: numbers to unsigned longs, ints and shorts.
?C:.
?C:CASTFLAGS:
?C: This symbol contains flags that say what difficulties the compiler
?C: has casting odd floating values to unsigned long:
?C:  0 = ok
?C:  1 = couldn't cast < 0
?C:  2 = couldn't cast >= 0x80000000
?C:  4 = couldn't
 cast in argument expression list
?C:.
?H:#$d_castneg CASTNEGFLOAT  /**/
?H:#define CASTFLAGS $castflags  /**/
?H:.
?F:!try
?LINT:set d_castneg
: check for ability to cast negative floats to unsigned
echo " "
echo 'Checking whether your C compiler can cast negative float to unsigned.' >&4
$cat >try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <sys/types.h>
#include <signal.h>
$signal_t blech(int s) { exit(7); }
$signal_t blech_in_list(int s) { exit(4); }
unsigned long dummy_long(unsigned long p) { return p; }
unsigned int dummy_int(unsigned int p) { return p; }
unsigned short dummy_short(unsigned short p) { return p; }
int main()
```

```
{
 double f;
 unsigned long along;
 unsigned int aint;
 unsigned short ashort;
 int result = 0;
 char str[16];

 /* Frustrate gcc-2.7.2's optimizer which failed this test with
    a direct f = -123. assignment.  gcc-2.8.0 reportedly
    optimized the whole file away
 */
 /* Store the number in a writable
 string for gcc to pass to
    sscanf under HP-UX.
 */
 sprintf(str, "-123");
 sscanf(str, "%lf", &f);  /* f = -123.; */

 signal(SIGFPE, blech);
 along = (unsigned long)f;
 aint = (unsigned int)f;
 ashort = (unsigned short)f;
 if (along != (unsigned long)-123)
  result |= 1;
 if (aint != (unsigned int)-123)
  result |= 1;
 if (ashort != (unsigned short)-123)
  result |= 1;
 sprintf(str, "1073741824.");
 sscanf(str, "%lf", &f); /* f = (double)0x40000000; */
 f = f + f;
 along = 0;
 along = (unsigned long)f;
 if (along != 0x80000000)
  result |= 2;
 f -= 1.;
 along = 0;
 along = (unsigned long)f;
 if (along != 0x7fffffff)
  result |= 1;
 f += 2.;
 along = 0;
 along = (unsigned long)f;
 if (along != 0x80000001)
  result |= 2;
 if (result)
  exit(result);
```

```
?X:
?X: The following is a test for Interactive Unix Version 4.1, which
?X: has an 'improved' compiler which can correctly cast negative
?X: floats in expression lists, but apparently not in argument lists.
?X: Contributed by Winfried Koenig
 <win@incom.rhein-main.de>
?X:
 signal(SIGFPE, blech_in_list);
 sprintf(str, "123.");
 sscanf(str, "%lf", &f);  /* f = 123.; */
 along = dummy_long((unsigned long)f);
 aint = dummy_int((unsigned int)f);
 ashort = dummy_short((unsigned short)f);
 if (along != (unsigned long)123)
  result |= 4;
 if (aint != (unsigned int)123)
  result |= 4;
 if (ashort != (unsigned short)123)
  result |= 4;
 exit(result);

}
EOCP
set try
if eval $compile_ok; then
 $run ./try 2>/dev/null
 castflags=$?
else
 echo "(I can't seem to compile the test program--assuming it can't)"
 castflags=7
fi
case "$castflags" in
0) val="$define"
 echo "Yup, it can."
 ;;
*) val="$undef"
 echo "Nope, it can't."
 ;;
esac
set d_castneg
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_castneg.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fstatfs : Inlibc
?MAKE: -pick add $@ %<
?S:d_fstatfs:
?S: This variable conditionally defines the HAS_FSTATFS symbol, which
?S: indicates to the C program that the fstatfs() routine is available.
?S:.
?C:HAS_FSTATFS:
?C: This symbol, if defined, indicates that the fstatfs routine is
?C: available to stat filesystems by file descriptors.
?C:.
?H:#$d_fstatfs HAS_FSTATFS  /**/
?H:.
?LINT:set d_fstatfs
: see if fstatfs exists
set fstatfs d_fstatfs
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fstatfs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getitimer: Inlibc
?MAKE: -pick add $@ %<
?S:d_getitimer:
?S: This variable conditionally defines the HAS_GETITIMER symbol, which
?S: indicates to the C program that the getitimer() routine is available.
?S:.
?C:HAS_GETITIMER:
?C: This symbol, if defined, indicates that the getitimer routine is
?C: available to return interval timers.
?C:.
?H:#$d_getitimer HAS_GETITIMER  /**/
?H:.
```

```
?LINT:set d_getitimer
: see if getitimer exists
set getitimer d_getitimer
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getitimer.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorprefix.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorprefix.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:usevendorprefix vendorprefix vendorprefixexp +oldvendorprefix: \
 Getfile Loc Oldconfig cat prefix Myread
?MAKE: -pick add $@ %<
?S:usevendorprefix:
?S: This variable tells whether the vendorprefix
?S: and consequently other vendor* paths are in use.
?S:.
?S:vendorprefix:
?S: This variable holds the full absolute path of the directory below
?S: which
 the vendor will install add-on packages.
?S: See INSTALL for usage and examples.
?S:.
?S:vendorprefixexp:
?S: This variable holds the full absolute path of the directory below
?S: which the vendor will install add-on packages.  Derived from vendorprefix.
?S:.
?S:oldvendorprefix:
?S: This variable is set non-null if the vendorprefix was previously defined
?S: and gets set to a new value. Used internally by Configure only.
?S:.
: Set the vendorprefix variables
$cat <<EOM
```

```
The installation process will also create a directory for
vendor-supplied add-ons.  Vendors who supply perl with their system
may find it convenient to place all vendor-supplied files in this
directory rather than in the main distribution directory.  This will
ease upgrades between binary-compatible maintenance versions of perl.

Of course you may also use these directories in whatever way you see
fit.  For example, you might use them to access modules shared over a
company-wide network.

The default answer should be
 fine for most people.
This causes further questions about vendor add-ons to be skipped
and no vendor-specific directories will be configured for perl.

EOM
rp='Do you want to configure vendor-specific add-on directories?'
case "$usevendorprefix" in
define|true|[yY]*) dflt=y ;;
*) : User may have set vendorprefix directly on Configure command line.
 case "$vendorprefix" in
 "|' ') dflt=n ;;
 *) dflt=y ;;
 esac
 ;;
esac
. ./myread
case "$ans" in
[yY]*) fn=d~+
 rp='Installation prefix to use for vendor-supplied add-ons?'
 case "$vendorprefix" in
 ") dflt="$prefix" ;;
 *)  dflt=$vendorprefix ;;
 esac
 . ./getfile
 : XXX Prefixit unit does not yet support siteprefix and vendorprefix
 oldvendorprefix="
 case "$vendorprefix" in
 ") ;;
 *) case "$ans" in
  "$prefix") ;;
  *) oldvendorprefix="$prefix";;
  esac
  ;;
 esac
 usevendorprefix="$define"
 vendorprefix="$ans"
 vendorprefixexp="$ansexp"
```

```
 ;;
*) usevendorprefix="$undef"
 vendorprefix=''
 vendorprefixexp=''
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/vendorprefix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sighold.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sighold.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:21  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sighold: Inlibc
?MAKE: -pick add $@ %<
?S:d_sighold:
?S: This variable conditionally defines HAS_SIGHOLD if sighold() is
?S: available to hold signals.
?S:.
?C:HAS_SIGHOLD:
?C: This symbol, if defined, indicates that the sighold routine is
?C: available to hold signals.
?C:.
?H:#$d_sighold HAS_SIGHOLD /**/
?H:.
?LINT:set d_sighold
:
 see if sighold exists
set sighold d_sighold
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sighold.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Warn.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extract.U,v $
?X:
?X: This unit produces a shell script which can be run in order to emit
?X: an important warning to the user, which will be remembered and shown
?X: at the end of the Configure run as well.
?X:
?X: A typical use would be:
?X:
?X:  ./warn <<EOM
?X:  Problem with your C compiler: can't turn debugging on.
?X:  EOM
?X:
?X: or:
?X:
?X:  ./warn "Problem with your C compiler: can't turn debugging on."
?X:
?X: Which will both display to the user:
?X:
?X:  ***
 WARNING:
?X:  *** Problem with your C compiler: can't turn debugging on.
?X:  ***
?X:
?MAKE:Warn: startsh eunicefix
?MAKE: -pick add $@ %<
?F:./warn
: script used to emit important warnings
cat >warn <<EOS
$startsh
?X: Read the whole warning message from stdin into a temporary file
?X: when no argument was supplied.
if test \$# -gt 0; then
 echo "\$@" >msg
else
 cat >msg
fi
```

```
?X: Emit the warning, prefixing all lines with '*** '
echo "*** WARNING:" >&4
sed -e 's/^/*** /' <msg >&4
echo "*** " >&4
?X: Save the warning in the logs, which will be shown again at the end
cat msg >>config.msg
echo " " >>config.msg
rm -f msg
EOS
chmod +x warn
$eunicefix warn
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Warn.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setregid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setregid.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:12  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setregid d_setresgid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setregid:
?S: This variable conditionally defines HAS_SETREGID if setregid() is
?S: available to change the real and effective gid of the current
?S: process.
?S:.
?S:d_setresgid:
?S: This variable conditionally defines HAS_SETRESGID if setresgid() is
?S: available to change
 the real, effective and saved gid of the current
?S: process.
?S:.
?C:HAS_SETREGID (SETREGID):
?C: This symbol, if defined, indicates that the setregid routine is
?C: available to change the real and effective gid of the current
?C: process.
```

```
?C:.
?C:HAS_SETRESGID (SETRESGID):
?C: This symbol, if defined, indicates that the setresgid routine is
?C: available to change the real, effective and saved gid of the current
?C: process.
?C:.
?H:#$d_setregid HAS_SETREGID  /**/
?H:#$d_setresgid HAS_SETRESGID  /**/
?H:.
?LINT: set d_setregid d_setresgid
: see if setregid exists
set setregid d_setregid
eval $inlibc
set setresgid d_setresgid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setregid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:gidformat: gidsize gidsign ivsize uvsize longsize intsize shortsize \
 ivdformat uvuformat test echo
?MAKE: -pick add $@ %<
?S:gidformat:
?S: This variable contains the format string used for printing a Gid_t.
?S:.
?C:Gid_t_f:
?C: This symbol defines the format string used for printing a Gid_t.
?C:.
?H:#define Gid_t_f  $gidformat  /**/
?H:.
: Check format string for GID

echo " "
$echo "Checking the format string to be used for gids..." >&4

case "$gidsign" in
-1) if $test X"$gidsize" = X"$ivsize"; then
  gidformat="$ivdformat"
 else
```

```
  if $test X"$gidsize" = X"$longsize"; then
   gidformat="'ld'"
  else
   if $test X"$gidsize" = X"$intsize"; then
    gidformat="'d'"
   else
    if $test X"$gidsize"
 = X"$shortsize"; then
     gidformat="'hd'"
    fi
   fi
  fi
 fi
 ;;
*) if $test X"$gidsize" = X"$uvsize"; then
  gidformat="$uvuformat"
 else
  if $test X"$gidsize" = X"$longsize"; then
   gidformat="'lu'"
  else
   if $test X"$gidsize" = X"$intsize"; then
    gidformat="'u'"
   else
    if $test X"$gidsize" = X"$shortsize"; then
     gidformat="'hu'"
    fi
   fi
  fi
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/gidf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getmnt: Inlibc
?MAKE: -pick add $@ %<
?S:d_getmnt:
?S: This variable conditionally defines the HAS_GETMNT symbol, which
```

```
?S: indicates to the C program that the getmnt() routine is available
?S: to retrieve one or more mount info blocks by filename.
?S:.
?C:HAS_GETMNT:
?C: This symbol, if defined, indicates that the getmnt routine is
?C: available to get filesystem mount info by filename.
?C:.
?H:#$d_getmnt HAS_GETMNT  /**/
?H:.
?LINT:set d_getmnt
: see if getmnt exists
set getmnt d_getmnt
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getmnt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fsync: Inlibc
?MAKE: -pick add $@ %<
?S:d_fsync:
?S: This variable conditionally defines the HAS_FSYNC symbol, which
?S: indicates to the C program that the fsync() routine is available.
?S:.
?C:HAS_FSYNC:
?C: This symbol, if defined, indicates that the fsync routine is
?C: available to write a file's modified data and attributes to
?C: permanent storage.
?C:.
?H:#$d_fsync HAS_FSYNC  /**/
?H:.
?LINT:set d_fsync
: see if fsync exists
set fsync d_fsync
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fsync.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_pthread_atfork: Inlibc cat Compile usethreads Setvar
?MAKE: -pick add $@ %<
?S:d_pthread_atfork:
?S: This variable conditionally defines the HAS_PTHREAD_ATFORK symbol,
?S: which indicates to the C program that the pthread_atfork()
?S: routine is available.
?S:.
?C:HAS_PTHREAD_ATFORK:
?C: This symbol, if defined, indicates that the pthread_atfork routine
?C: is available to setup fork handlers.
?C:.
?H:#$d_pthread_atfork HAS_PTHREAD_ATFORK  /**/
?H:.
?LINT:set d_pthread_atfork
: see whether the pthread_atfork exists
$cat >try.c <<EOP
#include <pthread.h>
#include <stdio.h>
int main() {
#ifdef  PTHREAD_ATFORK
	pthread_atfork(NULL,NULL,NULL);
#endif
}
EOP

: see if pthread_atfork exists
set
 try -DPTHREAD_ATFORK
if eval $compile; then
   val="$define"
else
   val="$undef"
fi
case "$usethreads" in
$define)
	case "$val" in
	$define) echo 'pthread_atfork found.' >&4	;;
	*)	echo 'pthread_atfork NOT found.' >&4	;;
	esac
```

```
esac
set d_pthread_atfork
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_pthread_atfork.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2016 Dagfinn Ilmari Mannsker & H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X:
?X: This unit produces a variable that is intended to be eval'ed in
?X: order to define/undefine a symbol. A consistency check is made
?X: regarding any previous value and a warning is issued if there
?X: is any discrepancy.
?X:
?X: To use it, say:
?X: set d_siginfo_si_errno siginfo_t int si_errno $d_sigaction signal.h
?X: eval $hasfield_t;
?X:
?MAKE:Hasfield_t: test Compile rm_try Setvar
?MAKE: -pick add $@ %<
?LINT:define hasfield_t
?S:hasfield_t:
?S: Internal macro for Configure
?S:.
?V:hasfield_t:
?T:varname struct type field
: Define hasfield_t macro for Configure internal use
hasfield_t='varname=$1; struct=$2; type=$3; field=$4; shift; shift; shift; shift;
while $test $# -ge 2; do
   case
 "$1" in
 $define) echo "#include <$2>";;
   esac ;
   shift 2;
done > try.c;
echo "int main () { $struct foo; $type bar = foo.$field; }" >> try.c;
set try;
if eval $compile; then
 val="$define";
else
 val="$undef";
fi;
```

```
set $varname;
eval $setvar;
$rm_try'
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/Hasfield_t.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_usleepproto: Hasproto i_unistd
?MAKE: -pick add $@ %<
?S:d_usleepproto:
?S: This variable conditionally defines the HAS_USLEEP_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the usleep() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_USLEEP_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the usleep() function.  Otherwise, it is up
?C: to the program to supply one.  A good guess is
?C:  extern int
 usleep(useconds_t);
?C:.
?H:#$d_usleepproto HAS_USLEEP_PROTO /**/
?H:.
?LINT:set d_usleepproto
: see if prototype for usleep is available
echo " "
set d_usleepproto usleep $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_usleepproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getservbyport_r.U,v 0RCS:
```

```
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getservbyport_r getservbyport_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getservbyport_r:
?S: This variable conditionally defines the HAS_GETSERVBYPORT_R symbol,
?S: which indicates to the C program that the getservbyport_r()
?S: routine is available.
?S:.
?S:getservbyport_r_proto:
?S: This variable encodes the prototype of getservbyport_r.
?S: It is zero if d_getservbyport_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getservbyport_r
?S: is defined.
?S:.
?C:HAS_GETSERVBYPORT_R:
?C: This symbol, if defined, indicates
 that the getservbyport_r routine
?C: is available to getservbyport re-entrantly.
?C:.
?C:GETSERVBYPORT_R_PROTO:
?C: This symbol encodes the prototype of getservbyport_r.
?C: It is zero if d_getservbyport_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getservbyport_r
?C: is defined.
?C:.
?H:#$d_getservbyport_r HAS_GETSERVBYPORT_R /**/
?H:#define GETSERVBYPORT_R_PROTO $getservbyport_r_proto /**/
?H:.
?T:try hdrs d_getservbyport_r_proto
: see if getservbyport_r exists
set getservbyport_r d_getservbyport_r
eval $inlibc
case "$d_getservbyport_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getservbyport_r_proto:$usethreads" in
 ":define") d_getservbyport_r_proto=define
  set d_getservbyport_r_proto getservbyport_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
```

```
 case "$d_getservbyport_r_proto" in
 define)
 case "$getservbyport_r_proto" in
 "|0) try='int getservbyport_r(int, const char*, struct servent*, char*, size_t,
 struct servent**);'
 ./protochk "$extern_C $try" $hdrs && getservbyport_r_proto=I_ICSBWR ;;
 esac
 case "$getservbyport_r_proto" in
 "|0) try='struct servent* getservbyport_r(int, const char*, struct servent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getservbyport_r_proto=S_ICSBI ;;
 esac
 case "$getservbyport_r_proto" in
 "|0) try='int getservbyport_r(int, const char*, struct servent*, struct servent_data*);'
 ./protochk "$extern_C $try" $hdrs && getservbyport_r_proto=I_ICSD ;;
 esac
 case "$getservbyport_r_proto" in
 "|0) d_getservbyport_r=undef
  getservbyport_r_proto=0
  echo "Disabling getservbyport_r, cannot determine prototype." >&4 ;;
 * ) case "$getservbyport_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getservbyport_r_proto="REENTRANT_PROTO_$getservbyport_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getservbyport_r has no prototype, not using it." >&4 ;;
  esac
  d_getservbyport_r=undef
  getservbyport_r_proto=0
  ;;
 esac
 ;;
*) getservbyport_r_proto=0
 ;;
esac
```

Found
 in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getservbyport_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_inetd.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_inetd.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:23  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_inetd: cat test package Myread Setvar
?MAKE: -pick add $@ %<
?S:d_inetd:
?S: This symbol conditionally defines USE_INETD which indicates to the C
?S: program that the initial socket connection will be done via inetd.
?S:.
?C:USE_INETD (INETD):
?C: This symbol if defined indicates to the C program that inetd will be
?C: in charge of the
 initial socket connection. The file descriptors 0 and
?C: 1 have been dup()ed from the original connected socket descriptor and
?C: are ready for send() and recv().
?C:.
?H:#$d_inetd USE_INETD  /**/
?H:.
?LINT:set d_inetd
: ask whether initial socket connection is to be done via inetd
echo " "
dflt=n
case "$d_inetd" in
") if $test -f /etc/inetd.conf; then
  $cat <<EOM
Your system provides a so called "Internet super-server", the inetd daemon.
Network services like ftp or rlogin are usually handled via ftpd and rlogind
daemons. Without inetd, these daemons must always be running for the service
to be on. On the contrary, inetd listens to specific ports defined in file
/etc/inetd.conf and will run the appropriate daemon upon request. This scheme
avoids eating up the process table and memory with useless daemons.

I can set up things so that internet connections for $package will be done
using inetd, in which case you will have to edit /etc/inetd.conf to add some
specific informations.

EOM
  dflt=y
 else
  $cat
```

```
 <<EOM
I do not see any trace of a configuration file for inetd, hence I assume your
system does not support the so called "Internet super-server". This means
$package will need to have a daemon process running on this machine to allow
network connections.

EOM
 fi;;
*) case "$d_inetd" in
 "$define") dflt=y;;
 esac;;
esac
rp='Do you wish to use inetd for network connections?'
. ./myread
val="$undef"
case "$ans" in
y*|Y*) val="$define";;
esac
set d_inetd
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_inetd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_atoll: Inlibc
?MAKE: -pick add $@ %<
?S:d_atoll:
?S: This variable conditionally defines the HAS_ATOLL symbol, which
?S: indicates to the C program that the atoll() routine is available.
?S:.
?C:HAS_ATOLL:
?C: This symbol, if defined, indicates that the atoll routine is
?C: available to convert strings into long longs.
?C:.
?H:#$d_atoll HAS_ATOLL  /**/
?H:.
?LINT:set d_atoll
: see if atoll exists
set atoll d_atoll
```

```
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/atoll.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Chk_MANI.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Chk_MANI.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  14:57:25  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/31  09:33:14  ram
?RCS: patch44: now lists Begin instead of Myinit in its dependencies
?RCS: patch44: leading comment now explains how this unit is included
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit checks the package by making sure
 every file listed in MANIFEST
?X: is present. It is systematically "included" via the Finish unit (which
?X: is always present in every Configure script), although it may result in
?X: an empty inclusion when no MANIFEST is present.
?X:
?MAKE:Chk_MANI: Begin c n rsrc
?MAKE: -pick wipe $@ %<
?T:filelist ans tmppwd
?X: This check happens at metaconfig-time, so it's ok to hard-code the path.
@if {test -f ../MANIFEST}
: Now test for existence of everything in MANIFEST
echo " "
if test -f "$rsrc/MANIFEST"; then
 echo "First let's make sure your kit is complete.  Checking..." >&4
?X:
?X: Files spelled uppercased and beginning with PACK are produced by the
?X: shell archive builder and may be removed by the user. Usually, they are
?X: not listed in the MANIFEST file, but you never know...
```

```
?X:
?X: "split -l" is the new way of running a split, but we also try the older way
?X:
 awk '$1 !~ /PACK[A-Z]+/ {print $1}' "$rsrc/MANIFEST" | \
  (split -l 50 2>/dev/null || split -50)
 rm -f missing
 tmppwd=`pwd`
 for
 filelist in x??; do
  (cd "$rsrc"; ls `cat "$tmppwd/$filelist"` \
   >/dev/null 2>>"$tmppwd/missing")
 done
 if test -s missing; then
  cat missing >&4
  cat >&4 <<'EOM'

THIS PACKAGE SEEMS TO BE INCOMPLETE.

You have the option of continuing the configuration process, despite the
distinct possibility that your kit is damaged, by typing 'y'es.  If you
do, don't blame me if something goes wrong.  I advise you to type 'n'o
and contact the author (<MAINTLOC>).

EOM
?X: Can't use $echo at this early stage
  echo $n "Continue? [n] $c" >&4
  read ans
  case "$ans" in
  y*)
   echo "Continuing..." >&4
   rm -f missing
   ;;
  *)
?X:
?X: Use kill and not exit, so that the trap gets executed to clean up
?X:
   echo "ABORTING..." >&4
   kill $$
   ;;
  esac
 else
  echo "Looks good..."
 fi
else
 echo "There is no MANIFEST file.  I hope your kit is complete !"
fi
rm -f missing x??
```

@end

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Chk_MANI.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Myread.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Myread.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  15:05:39  ram
?RCS: patch61: myread script now starts with a "startsh"
?RCS: patch61: miscellaneous fixes
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:14:22  ram
?RCS: patch45: added & escape allowing user to turn on -d from the prompt
?RCS:
?RCS: Revision 3.0.1.4  1994/10/31  09:48:04  ram
?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U
?RCS:
?RCS: Revision 3.0.1.3  1994/10/29
  15:56:20  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.2  1993/08/30  08:57:59  ram
?RCS: patch8: added new visible 'nostick' symbol, mainly for Finish.U
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:39:20  ram
?RCS: patch7: now sticks to the question when no default and empty answer
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to do a read.  It allows for shell escapes, default assignment and
?X: parameter evaluation.
?X:
?X: To use this unit, $rp and $dflt must hold the question and the
?X: default answer. The question will be printed by the script itself.
```

```
?X: Neither $rp nor $dflt is altered by the script.
?X:
?X: The myread script will stick to the question if no default is proposed
?X: and the user answer is empty, which prevents mistakes. However, at the
?X: end of Configure, there is an exception
 to this rule (Finish.U) where we
?X: set nostick to a non-empty value to allow the Return key to play its role!
?X:
?MAKE:Myread: Options startsh n c trnl
?MAKE: -pick add $@ %<
?V:ans:dflt rp nostick
?F:./myread
?T:COLUMNS xxxm rp dflt answ aok myecho
?LINT:change fastread
?X: Some shells (Ultrix) do not understand ${COLUMNS:-80}, sigh!
: compute the number of columns on the terminal for proper question formatting
case "$COLUMNS" in
") COLUMNS='80';;
esac

: set up the echo used in my read
?X:
?X: This variable is intended to be eval'ed. It will echo the two
?X: variables $rp and $dflt (provided this latter has a non null value).
?X: It is mainly used by the myread script to echo the questions.
?X:
?X: The $n and $c below are substituted before Loc does its silly echo check
?X: so don't put a $ on the echo below so we get builtin, even if $echo is
?X: pointing to /bin/echo.
?X:
myecho="case \"\$xxxm\" in
") echo $n \"\$rp $c\" >&4;;
*) case \"\$rp\" in
 ") echo $n \"[\$xxxm] $c\";;
 *)
  if
 test \`echo \"\$rp [\$xxxm]  \" | wc -c\` -ge $COLUMNS; then
   echo \"\$rp\" >&4
   echo $n \"[\$xxxm] $c\" >&4
  else
   echo $n \"\$rp [\$xxxm] $c\" >&4
  fi
  ;;
 esac;;
esac"

: now set up to do reads with possible shell escape and default assignment
cat <<EOSC >myread
```

```
$startsh
?X:
?X: Save value of default -- do not alter original in case of eval
?X:
xxxm=\$dflt
$myecho
?X:
?X: If there is no default, then stop, regardless of the value in fastread.
?X: In silent mode, no new-line is to be echoed if the question is empty,
?X: since this is used to wait for the "return" key.
?X:
ans='!'
case "\$fastread" in
yes) case "\$dflt" in
 ") ;;
 *) ans=";
  case "\$silent-\$rp" in
  true-) ;;
  *) echo " " >&4;;
  esac;;
 esac;;
*) case "\$silent" in
 true) case "\$rp" in
  ") ans=";;
  esac;;
 esac;;
esac
while expr "X\$ans" : "X!" >/dev/null; do
 read answ
?X:
?X: Run 'eval' on the answer, in order to do variable substitution, in case
?X: the user types $HOME or $WHATEVER.
 Variables must be evaluated now.
?X: Typing '\$HOME' won't currently prevent from substitution -- use '\\$HOME'
?X: The $1 .. $9 and $*, as well as $@, are available to refer to the
?X: default value.
?X:
 set x \$xxxm
 shift
 aok=''; eval "ans=\\"\$answ\\"" && aok=y
 case  "\$answ" in
?X:
?X: Use "!" and not a plain ! because of a bug in BSD 4.4 shell
?X: (reported by Wayne Davison)
?X: We must handle the shell escapes before dealing with possible variable
?X: substitution, since the shell we're launching in that case will be able
?X: to do it as well as we can -- RAM, 15/03/96
?X
```

```
"!")
 sh 1>&4
 echo " "
 $myecho
 ;;
!*)
 set x \`expr "X\$ans" : "X!\(.*\)\$"\`
 shift
 sh 1>&4 -c "\$*"
 echo " "
 $myecho
 ;;
"\$ans")
 case "\$ans" in
?X:
?X: Answers starting with & are hooks allowing to dynamically turn on/off
?X: some Configure options. That's for the future. -- RAM, 09/01/95
?X: Today, we only recognize '& -d' to mean 'go on as if Configure -d, which
?X: is a hardwired
 behaviour compatible with our general scheme.
?X:
 \\&*)
  set x \`expr "X\$ans" : "X&\(.*\)\$"\`
  shift
  case "\$1" in
  -d)
   fastread=yes
   echo "(OK, I'll run with -d after this question.)" >&4
   ;;
  -*)
   echo "*** Sorry, \$1 not supported yet." >&4
   ;;
  esac
  $myecho
  ans=!
  ;;
 esac;;
*)
 case "\$aok" in
 y)
  echo "*** Substitution done -- please confirm."
  xxxm="\$ans"
  ans=\`echo $n "\$ans$c" | tr '$trnl' ' '\`
  xxxm="\$ans"
  ans=!
  ;;
 *)
  echo "*** Error -- try again."
```

```
  ans=!
  ;;
 esac
 $myecho
 ;;
esac
?X: Stick in myread if no default answer and nothing was answered
 case "\$ans\$xxxm\$nostick" in
 ")
  ans=!
  $myecho
  ;;
 esac
done
case "\$ans" in
") ans="\$xxxm";;
esac
EOSC
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Myread.U
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```
?RCS: $Id: afs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: afs.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:23:06  ram
?RCS: patch61: can now explicitly tell Configure whether AFS is running
?RCS:
?RCS: Revision 3.0.1.1  1993/08/24  12:24:43  ram
?RCS: patch3: created
?RCS:
?MAKE:afs afsroot: test
?MAKE: -pick add $@ %<
?S:afs:
?S: This variable is set to 'true' if AFS (Andrew File System) is used
?S: on the system, 'false' otherwise.  It is possible to override this
?S: with a hint value or command line option,
```

```
 but you'd better know
?S: what you are doing.
?S:.
?S:afsroot:
?S: This variable is by default set to '/afs'. In the unlikely case
?S: this is not the correct root, it is possible to override this with
?S: a hint value or command line option.  This will be used in subsequent
?S: tests for AFSness in the configure and test process.
?S:.
: allow them to override the AFS root
case "$afsroot" in
") afsroot=/afs ;;
*) afsroot=$afsroot ;;
esac

: is AFS running?
echo " "
case "$afs" in
$define|true) afs=true ;;
$undef|false) afs=false ;;
*) if $test -d $afsroot; then
  afs=true
 else
  afs=false
 fi
 ;;
esac
if $afs; then
 echo "AFS may be running... I'll be extra cautious then..." >&4
else
 echo "AFS does not seem to be running..." >&4
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/afs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endgrent.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_endgrent.U,v $
?RCS:
?MAKE:d_endgrent: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_endgrent:
?S: This variable conditionally defines the HAS_ENDGRENT symbol, which
?S: indicates to the C program that the endgrent() routine is available
?S: for sequential access of the group database.
?S:.
?C:HAS_ENDGRENT:
?C: This symbol, if defined, indicates that the getgrent routine is
?C: available for finalizing sequential access of the group database.
?C:.
?H:#$d_endgrent HAS_ENDGRENT  /**/
?H:.
?LINT:set d_endgrent
: see if endgrent exists
set endgrent d_endgrent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_endgrent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:gccversion gccosandvers gccansipedantic: cat cpp rm +cc \
 Myread Guess Options Oldconfig Loc osname osvers run
?MAKE: -pick add $@ %<
?S:gccversion:
?S: If GNU cc (gcc) is used, this variable holds '1' or '2' to
?S: indicate whether the compiler is version 1 or 2.  This is used in
?S: setting some of the default cflags.  It is set to '' if not gcc.
?S:.
?S:gccosandvers:
?S: If GNU cc (gcc) is used, this variable holds the operating system
?S: and version used to compile gcc.  It is set to '' if not gcc,
?S: or if
 nothing useful can be parsed as the os version.
?S:.
?S:gccansipedantic:
?S: If GNU cc (gcc) is used, this variable will enable (if set) the
```

```
?S: -ansi and -pedantic ccflags for building core files (through
?S: cflags script). (See Porting/pumpkin.pod for full description).
?S:.
?D:gccversion="
?D:gccansipedantic="
?T:gccshortvers
?T:incdir
?T:warn
?F:!try
?LINT:change cpp
?LINT:extern ccflags
?LINT:extern ldflags
?LINT:extern locincpth
?LINT:extern ccname
?LINT:change ccname
?LINT:change locincpth
?LINT:change ccflags
?LINT:set gccansipedantic
?X: Check if they have gcc in any guise.
: Check if we are using GNU gcc and what its version is
echo " "
echo "Checking for GNU cc in disguise and/or its version number..." >&4
$cat >try.c <<EOM
#include <stdio.h>
int main() {
#if defined(__GNUC__) && !defined(__INTEL_COMPILER)
#ifdef __VERSION__
 printf("%s\n", __VERSION__);
#else
 printf("%s\n", "1");
#endif
#endif
 return(0);
}
EOM
if $cc -o try $ccflags $ldflags try.c; then
 gccversion=`$run
 ./try`
 case "$gccversion" in
 ") echo "You are not using GNU cc." ;;
 *)  echo "You are using GNU cc $gccversion."
     ccname=gcc
     ;;
 esac
else
 echo " "
 echo "*** WHOA THERE!!! ***" >&4
 echo "    Your C compiler \"$cc\" doesn't seem to be working!" >&4
```

```
?X: using -K will prevent aborting--maybe they're cross compiling?
 case "$knowitall" in
 ")
 echo "    You'd better start hunting for one and let me know about it." >&4
  exit 1
  ;;
 esac
fi
$rm -f try try.*
case "$gccversion" in
1.*) cpp=`./loc gcc-cpp $cpp $pth` ;;
esac
case "$gccversion" in
") gccosandvers=" ;;
*) gccshortvers=`echo "$gccversion"|sed 's/ .*//'`
  gccosandvers=`$cc -v 2>&1|grep '/specs$'|sed "s!.*/[^-/]*-[^-/]*-\([^-/]*\)/$gccshortvers/specs!\1!"`
  gccshortvers="
  case "$gccosandvers" in
  $osname) gccosandvers=" ;; # linux gccs seem to have no linux osvers, grr
  $osname$osvers) ;; # looking good
  $osname*) cat <<EOM >&4

*** WHOA THERE!!! ***

   Your gcc has not been compiled for the exact
 release of
   your operating system ($gccosandvers versus $osname$osvers).

   In general it is a good idea to keep gcc synchronized with
   the operating system because otherwise serious problems
   may ensue when trying to compile software, like Perl.

   I'm trying to be optimistic here, though, and will continue.
   If later during the configuration and build icky compilation
   problems appear (headerfile conflicts being the most common
   manifestation), I suggest reinstalling the gcc to match
   your operating system release.

EOM
     ;;
  *) gccosandvers=" ;; # failed to parse, better be silent
  esac
  ;;
esac
case "$ccname" in
") ccname="$cc" ;;
esac
```

```
# gcc 3.* complain about adding -Idirectories that they already know about,
# so we will take those off from locincpth.
case "$gccversion" in
3.*)
   echo "main(){}">try.c
   for incdir in $locincpth; do
      warn=`$cc $ccflags -I$incdir -c try.c 2>&1 | \
      grep '^c[cp]p*[01]: warning: changing search
 order '`
      if test "X$warn" != X; then
    locincpth=`echo " $locincpth " | sed "s! $incdir ! !"`
      fi
   done
   $rm -f try try.*
esac

# gcc 4.9 by default does some optimizations that break perl.
# see ticket 121505.
#
# The -fwrapv disables those optimizations (and probably others,) so
# for gcc 4.9 (and later, since the optimizations probably won't go
# away), add -fwrapv unless the user requests -fno-wrapv, which
# disables -fwrapv, or if the user requests -fsanitize=undefined,
# which turns the overflows -fwrapv ignores into runtime errors.
case "$gccversion" in
4.[3-9].*|4.[1-9][0-9]*|[5-9].*|[1-9][0-9]*)
   case "$ccflags" in
   *-fno-wrapv*|*-fsanitize=undefined*|*-fwrapv*) ;;
   *) ccflags="$ccflags -fwrapv" ;;
   esac
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/gccvers.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_itimer.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_itimer.U,v $
```

```
?RCS: Revision 3.0  1993/08/18  12:06:25  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_itimer: Inlibc
?MAKE: -pick add $@ %<
?S:d_itimer:
?S: This variable conditionally defines the HAS_ITIMER symbol, which
?S: indicates that the setitimer() routine exists.  The setitimer()
?S: routine supports sub-second accuracy for one real-time and two
?S: cpu clocks.
?S:.
?C:HAS_ITIMER (ITIMER):
?C: This symbol, if defined, indicates
 that the setitimer() routine exists.
?C:.
?H:#$d_itimer HAS_ITIMER /**/
?H:.
?LINT:set d_itimer
: see if setitimer exists
set setitimer d_itimer
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_itimer.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_lstat.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_lstat.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:28  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_lstat: Inlibc
?MAKE: -pick add $@ %<
?S:d_lstat:
?S: This variable conditionally defines HAS_LSTAT if lstat() is
?S: available to do file stats on symbolic links.
?S:.
?C:HAS_LSTAT (LSTAT):
```

```
?C: This symbol, if defined, indicates that the lstat routine is
?C: available to do file stats on symbolic links.
?C:.
?H:#$d_lstat HAS_LSTAT  /**/
?H:.
?LINT:set
 d_lstat
: see if lstat exists
set lstat d_lstat
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_lstat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_msem_lck.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msem_lck.U,v $
?MAKE:d_msem_lck: Inlibc
?MAKE: -pick add $@ %<
?S:d_msem_lck:
?S: This variable conditionally defines HAS_MSEM_LOCK if msem_lock() is
?S: available, thereby indicating kernel support for memory semaphores.
?S:.
?C:HAS_MSEM_LOCK:
?C: This symbol, if defined, indicates that memory semaphores are
?C: available to protect mmap()'ed regions.
?C:.
?H:#$d_msem_lck HAS_MSEM_LOCK  /**/
?H:.
?LINT:set d_msem_lck
: see if msem_lock exists
set
 msem_lock d_msem_lck
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_msem_lck.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_mkdir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_mkdir.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:37  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_mkdir: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkdir:
?S: This variable conditionally defines the HAS_MKDIR symbol, which
?S: indicates to the C program that the mkdir() routine is available
?S: to create directories..
?S:.
?C:HAS_MKDIR (MKDIR):
?C: This symbol, if defined, indicates that the mkdir routine is available
?C: to create directories.
  Otherwise you should fork off a new process to
?C: exec /bin/mkdir.
?C:.
?H:#$d_mkdir HAS_MKDIR  /**/
?H:.
?LINT:set d_mkdir
: see if mkdir exists
set mkdir d_mkdir
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_mkdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2005, H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_malloc_size d_malloc_good_size d_malloc_usable_size: Inlibc
?MAKE: -pick add $@ %<
?S:d_malloc_size:
?S: This symbol, if defined, indicates that the malloc_size
?S: routine is available for use.
?S:.
?S:d_malloc_good_size:
?S: This symbol, if defined, indicates that the malloc_good_size
?S: routine is available for use.
?S:.
?S:d_malloc_usable_size:
?S: This symbol, if defined, indicates that the malloc_usable_size
?S: routine is available for use.
?S:.
?C:HAS_MALLOC_SIZE:
?C: This symbol, if defined, indicates that
 the malloc_size
?C: routine is available for use.
?C:.
?H:#$d_malloc_size HAS_MALLOC_SIZE  /**/
?H:.
?C:HAS_MALLOC_GOOD_SIZE:
?C: This symbol, if defined, indicates that the malloc_good_size
?C: routine is available for use.
?C:.
?H:#$d_malloc_good_size HAS_MALLOC_GOOD_SIZE /**/
?H:.
?C:HAS_MALLOC_USABLE_SIZE:
?C: This symbol, if defined, indicates that the malloc_usable_size
?C: routine is available for use.
?C:.
?H:#$d_malloc_usable_size HAS_MALLOC_USABLE_SIZE  /**/
?H:.
?LINT:set d_malloc_size
?LINT:set d_malloc_good_size
?LINT:set d_malloc_usable_size
: see if malloc_size exists
set malloc_size d_malloc_size
eval $inlibc

: see if malloc_size_good exists
set malloc_good_size d_malloc_good_size
eval $inlibc

: see if malloc_usable_size exists
```

```
set malloc_usable_size d_malloc_usable_size
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_malloc_size.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_ualarm: Inlibc
?MAKE: -pick add $@ %<
?S:d_ualarm:
?S: This variable conditionally defines the HAS_UALARM symbol, which
?S: indicates to the C program that the ualarm() routine is available.
?S:.
?C:HAS_UALARM:
?C: This symbol, if defined, indicates that the ualarm routine is
?C: available to do alarms with microsecond granularity.
?C:.
?H:#$d_ualarm HAS_UALARM  /**/
?H:.
?LINT:set d_ualarm
: see if ualarm exists
set ualarm d_ualarm
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_ualarm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Oldsym.U,v $
```

```
?RCS: Revision 3.0.1.1  1997/02/28  15:06:58  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit follows the creation of the config.sh file. It adds some
?X: special symbols: defines from patchlevel.h file if any and CONFIG,
?X: which is set to true. Then, we try to keep all the new symbols that
?X: may come from a hint file or a previous config.sh file.
?X:
?MAKE:Oldsym:
 Config_sh Options test hint src sed sort uniq
?MAKE: -pick add $@ %<
?T:CONFIG sym tmp
?F:!UU
: add special variables
$test -f $src/patchlevel.h && \
awk '/^#define/ {printf "%s=%s\n",$2,$3}' $src/patchlevel.h >>config.sh
echo "CONFIG=true" >>config.sh

: propagate old symbols
if $test -f UU/config.sh; then
?X: Make sure each symbol is unique in oldconfig.sh
 <UU/config.sh $sort | $uniq >UU/oldconfig.sh
?X:
?X: All the symbols that appear twice come only from config.sh (hence the
?X: two config.sh in the command line). These symbols will be removed by
?X: the uniq -u command. The oldsyms file thus contains all the symbols
?X: that did not appear in the produced config.sh (Larry Wall).
?X:
?X: Do not touch the -u flag of uniq.  This means you too, Jarkko.
?X:
 $sed -n 's/^\([a-zA-Z_0-9]*\)=.*/\1/p' \
  config.sh config.sh UU/oldconfig.sh |\
  $sort | $uniq -u >UU/oldsyms
 set X `cat UU/oldsyms`
 shift
 case $# in
 0) ;;
 *)
  cat <<EOM
Hmm...You had some extra variables I don't know about...I'll
 try to keep 'em...
EOM
  echo ": Variables propagated from previous config.sh file." >>config.sh
  for sym in `cat UU/oldsyms`; do
```

```
  echo "    Propagating $hint variable "'$"'$sym..."
  eval 'tmp="$"'${sym}"'"'
  echo "$tmp" | \
   sed -e "s/'/'\"'\"'/g" -e "s/^/$sym='/" -e "s/$/'/" >>config.sh
 done
 ;;
esac
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Oldsym.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_erfc: Inlibc
?MAKE: -pick add $@ %<
?S:d_erfc:
?S: This variable conditionally defines the HAS_ERFC symbol, which
?S: indicates to the C program that the erfc() routine is available.
?S:.
?C:HAS_ERFC:
?C: This symbol, if defined, indicates that the erfc routine is
?C: available to do the complementary error function.
?C:.
?H:#$d_erfc HAS_ERFC  /**/
?H:.
?LINT:set d_erfc
: see if erfc exists
set erfc d_erfc
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_erfc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_nice.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_nice.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:09:48  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_nice: Inlibc
?MAKE: -pick add $@ %<
?S:d_nice:
?S: This variable conditionally defines the HAS_NICE symbol, which
?S: indicates to the C program that the nice() routine is available.
?S:.
?C:HAS_NICE :
?C: This symbol, if defined, indicates that the nice routine is
?C: available.
?C:.
?H:#$d_nice
 HAS_NICE  /**/
?H:.
?LINT:set d_nice
: see if nice exists
set nice d_nice
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_nice.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: usedtrace.U,v $
?RCS:
?RCS: Copyright (c) 2008 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: usedtrace.U,v $
?RCS:
?MAKE:usedtrace dtrace: Myread Oldconfig Setvar Getfile test
?MAKE: -pick add $@ %<
?Y:TOP
?S:usedtrace:
?S: This variable indicates whether we are compiling with dtrace
?S: support. See also dtrace.
?S:.
?S:dtrace:
?S: This variable holds the location of the dtrace executable.
```

```
?S:.
?C:USE_DTRACE:
?C: This symbol, if defined, indicates that Perl should
?C: be built with support for DTrace.
?C:.
?H:#$usedtrace USE_DTRACE  /**/
?H:.
?T:dflt_dtrace
?LINT:set usedtrace
?LINT:set dtrace
: DTrace support
dflt_dtrace='/usr/sbin/dtrace'
$test -x /usr/bin/dtrace && dflt_dtrace='/usr/bin/dtrace'

cat <<EOM

Perl can be built to support DTrace on platforms that support
 it.
DTrace is a diagnosis and performance analysis tool from Sun.

If this doesn't make any sense to you, just accept the default.
EOM

while $test 1 ; do
 case "$usedtrace" in
 $define|true|[yY]*)
  dflt='y'
  ;;
 $undef|false|[nN]*)
  dflt='n'
  dflt_dtrace=""
  ;;
 ?*)
  dflt='y'
  dflt_dtrace=$usedtrace
  ;;
 *)
  dflt='n'
  ;;
 esac

 rp='Support DTrace if available?'
 . ./myread
 case "$ans" in
 y|Y) val="$define" ;;
 *)      val="$undef" ;;
 esac
 set usedtrace
```

```
 eval $setvar

 test "X$usedtrace" != "X$define" && break

 echo " "
 rp='Where is the dtrace executable?'
 dflt=$dflt_dtrace
 . ./getfile
 val="$ans"
 set dtrace
 eval $setvar

 if $test -f $dtrace
 then
  if $dtrace -h -s ../perldtrace.d \
   -o perldtrace.tmp >/dev/null 2>&1 \
   && rm -f perldtrace.tmp
  then
   echo " "
   echo "Good: your $dtrace knows about the -h flag."
  else
   cat >&2 <<EOM

*** $me:  Fatal Error:  $dtrace doesn't support -h flag
***
*** Your installed dtrace doesn't support the -h switch to
 compile a D
*** program into a C header. Can't continue.

EOM
   exit 1
  fi
  break;
 fi

 case "$fastread" in
 yes)
  cat >&2 <<EOM

*** $me:  Fatal Error:  $dtrace not found.
*** Can't continue.

EOM
  exit 1
  ;;
 *)
  echo "*** $dtrace was not found."
  echo " "
```

```
  ;;
 esac
done
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/usedtrace.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998, Jarkko Hietaniemi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_sysaccess: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysaccess:
?S: This variable conditionally defines the I_SYS_ACCESS symbol,
?S: and indicates whether a C program should include <sys/access.h>.
?S:.
?C:I_SYS_ACCESS:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/access.h>.
?C:.
?H:#$i_sysaccess   I_SYS_ACCESS                /**/
?H:.
?LINT:set i_sysaccess
: see if sys/access.h is available
set sys/access.h i_sysaccess
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/acl/i_sysaccess.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_safebcpy.U,v 3.0.1.4 1997/02/28 15:40:58 ram Exp $
?RCS:
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```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_safebcpy.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  15:40:58  ram
?RCS: patch61: improved overlapping copy check
?RCS: patch61: comfort them if they have memmove
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.3  1995/07/25  13:58:40  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.2  1995/01/11  15:29:23  ram
?RCS: patch45: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS:
 Revision 3.0.1.1  1994/05/06  14:49:03  ram
?RCS: patch23: ensure string is not optimized in read-only memory (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_safebcpy: cat d_bcopy Compile rm_try run \
 d_memmove i_memory i_stdlib i_string i_unistd Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_safebcpy:
?S: This variable conditionally defines the HAS_SAFE_BCOPY symbol if
?S: the bcopy() routine can do overlapping copies.  Normally, you
?S: should probably use memmove().
?S:.
?C:HAS_SAFE_BCOPY (SAFE_BCOPY):
?C: This symbol, if defined, indicates that the bcopy routine is available
?C: to copy potentially overlapping memory blocks. Normally, you should
?C: probably use memmove() or memcpy(). If neither is defined, roll your
?C: own version.
?C:.
?H:#$d_safebcpy HAS_SAFE_BCOPY /**/
?H:.
?F:!try
?LINT: set d_safebcpy
: can bcopy handle overlapping blocks?
echo " "
?X: assume the worst.
val="$undef"
case "$d_memmove" in
"$define")
 echo "I'll use memmove() instead of bcopy() for overlapping copies." ;;
*) case "$d_bcopy" in
```

```
 "$define")
  echo "Checking to see if bcopy() can do overlapping copies..." >&4
  $cat >try.c <<EOCP
#$i_memory I_MEMORY
#$i_stdlib I_STDLIB
#$i_string I_STRING
#$i_unistd I_UNISTD
EOCP
 $cat >>try.c <<'EOCP'
#include <stdio.h>
#ifdef I_MEMORY
#  include <memory.h>
#endif
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#ifdef I_STRING
#  include <string.h>
#else
#  include <strings.h>
#endif
#ifdef I_UNISTD
#  include <unistd.h>  /* Needed for NetBSD */
#endif
int main()
{
char buf[128], abc[128];
char *b;
int len;
int off;
int align;

/* Copy "abcde..." string to char abc[] so that gcc doesn't
  try to store the string in read-only memory. */
bcopy("abcdefghijklmnopqrstuvwxyz0123456789", abc, 36);

for (align = 7; align >= 0; align--) {
 for (len = 36; len; len--) {
  b = buf+align;
  bcopy(abc, b, len);
  for (off = 1; off <= len; off++) {
   bcopy(b, b+off, len);
   bcopy(b+off,
 b, len);
   if (bcmp(b, abc, len))
    exit(1);
  }
 }
```

```
}
exit(0);
}
EOCP
  set try
  if eval $compile_ok; then
   if $run ./try 2>/dev/null; then
    echo "Yes, it can."
    val="$define"
   else
    echo "It can't, sorry."
   fi
  else
   echo "(I can't compile the test program, so we'll assume not...)"
  fi
  ;;
 esac
 $rm_try
 ;;
esac
set d_safebcpy
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_safebcpy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getaddrinfo: Inlibc
?MAKE: -pick add $@ %<
?S:d_getaddrinfo:
?S: This variable conditionally defines the HAS_GETADDRINFO symbol,
?S: which indicates to the C program that the getaddrinfo() function
?S: is available.
?S:.
?C:HAS_GETADDRINFO:
?C: This symbol, if defined, indicates that the getaddrinfo() function
?C: is available for use.
?C:.
?H:#$d_getaddrinfo HAS_GETADDRINFO  /**/
?H:.
```

```
?LINT:set d_getaddrinfo
: see if getaddrinfo exists
set getaddrinfo d_getaddrinfo
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getaddrinfo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gmtime_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_gmtime_r gmtime_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_time i_systime extern_C
?MAKE: -pick add $@ %<
?S:d_gmtime_r:
?S: This variable conditionally defines the HAS_GMTIME_R symbol,
?S: which indicates to the C program that the gmtime_r()
?S: routine is available.
?S:.
?S:gmtime_r_proto:
?S: This variable encodes the prototype of gmtime_r.
?S: It is zero if d_gmtime_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gmtime_r
?S: is defined.
?S:.
?C:HAS_GMTIME_R:
?C: This symbol, if defined, indicates that the gmtime_r routine
?C: is available to gmtime re-entrantly.
?C:.
?C:GMTIME_R_PROTO:
?C: This
 symbol encodes the prototype of gmtime_r.
?C: It is zero if d_gmtime_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gmtime_r
?C: is defined.
?C:.
?H:#$d_gmtime_r HAS_GMTIME_R /**/
?H:#define GMTIME_R_PROTO $gmtime_r_proto /**/
?H:.
?T:try hdrs d_gmtime_r_proto
: see if gmtime_r exists
```

```
set gmtime_r d_gmtime_r
eval $inlibc
case "$d_gmtime_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_time time.h $i_systime sys/time.h"
 case "$d_gmtime_r_proto:$usethreads" in
 ":define") d_gmtime_r_proto=define
  set d_gmtime_r_proto gmtime_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_gmtime_r_proto" in
 define)
 case "$gmtime_r_proto" in
 "|0) try='struct tm* gmtime_r(const time_t*, struct tm*);'
 ./protochk "$extern_C $try" $hdrs && gmtime_r_proto=S_TS ;;
 esac
 case "$gmtime_r_proto" in
 "|0) try='int gmtime_r(const time_t*, struct tm*);'
 ./protochk "$extern_C $try" $hdrs && gmtime_r_proto=I_TS ;;
 esac
 case
 "$gmtime_r_proto" in
 "|0) d_gmtime_r=undef
  gmtime_r_proto=0
  echo "Disabling gmtime_r, cannot determine prototype." >&4 ;;
 * ) case "$gmtime_r_proto" in
  REENTRANT_PROTO*) ;;
  *) gmtime_r_proto="REENTRANT_PROTO_$gmtime_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "gmtime_r has no prototype, not using it." >&4 ;;
  esac
  d_gmtime_r=undef
  gmtime_r_proto=0
  ;;
 esac
 ;;
*) gmtime_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_gmtime_r.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: usrinc.U,v 1.1 2000/06/27 00:20:28 jhi Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: usrinc.U,v $
?RCS: Revision 1.1  2000/06/27 00:20:28  jhi
?RCS: Initial revision
?RCS:
?RCS: Revision 3.0.1.3  1997/02/28  16:27:12  ram
?RCS: patch61: don't ask for the include path unless they are on a MIPS
?RCS:
?RCS: Revision 3.0.1.2  1995/05/12  12:24:36  ram
?RCS: patch54: ensure that ./mips always exists (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:18:31  ram
?RCS: patch23: ensure usrinc value is preserved across sessions (WED)
?RCS:
?RCS: Revision
 3.0  1993/08/18  12:09:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:usrinc incpath mips_type: test cat echo n c Getfile Guess \
 Oldconfig eunicefix contains rm sysroot cc
?MAKE: -pick add $@ %<
?S:usrinc:
?S: This variable holds the path of the include files, which is
?S: usually /usr/include. It is mainly used by other Configure units.
?S:.
?S:incpath:
?S: This variable must precede the normal include path to get the
?S: right one, as in "$incpath/usr/include" or "$incpath/usr/lib".
?S: Value can be "" or "/bsd43" on mips.
?S:.
?S:mips_type:
?S: This variable holds the environment type for the mips system.
?S: Possible values are "BSD 4.3" and "System V".
?S:.
?D:usrinc='/usr/include'
?LINT:extern cppflags
?LINT:create mips
```

```
?T:xxx_prompt
?F:./mips
: What should the include directory be ?
: Use sysroot if set, so findhdr looks in the right place.
echo " "
$echo $n "Hmm...  $c"
dflt="$sysroot/usr/include"
incpath="
?X: mips_type is used later, to add -DSYSTYPE_BSD43
 to cppflags if needed.
mips_type="
?X:
?X: Cannot put the following in Guess, or we get a circular dependency.
?X:
if $test -f /bin/mips && /bin/mips; then
 echo "Looks like a MIPS system..."
 $cat >usr.c <<'EOCP'
#ifdef SYSTYPE_BSD43
/bsd43
#endif
EOCP
 if $cc $cppflags -E usr.c > usr.out && $contains / usr.out >/dev/null 2>&1; then
  dflt='/bsd43/usr/include'
  incpath='/bsd43'
  mips_type='BSD 4.3'
 else
  mips_type='System V'
 fi
 $rm -f usr.c usr.out
 echo "and you're compiling with the $mips_type compiler and libraries."
 xxx_prompt=y
 echo "exit 0" >mips
else
 echo "Doesn't look like a MIPS system."
 xxx_prompt=n
 echo "exit 1" >mips
fi
chmod +x mips
$eunicefix mips
case "$usrinc" in
") ;;
*) dflt="$usrinc";;
esac
case "$xxx_prompt" in
y) fn=d/
 echo " "
 rp='Where are the include files you want to use?'
 . ./getfile
```

```
 usrinc="$ans"
 ;;
*) usrinc="$dflt"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/usrinc.U
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```
?RCS: $Id: d_isascii.U,v 3.0.1.2 1994/10/29 16:13:39 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_isascii.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:13:39  ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:09:32  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_isascii: Compile cat rm Setvar i_stdlib
?MAKE: -pick add $@ %<
?S:d_isascii:
?S: This variable conditionally defines the HAS_ISASCII constant,
?S: which indicates
 to the C program that isascii() is available.
?S:.
?C:HAS_ISASCII:
?C: This manifest constant lets the C program know that isascii
?C: is available.
?C:.
?H:#$d_isascii HAS_ISASCII  /**/
?H:.
?LINT:set d_isascii
?X: Can't use Inlibc because isascii() might be a macro.
: Look for isascii
echo " "
$cat >isascii.c <<EOCP
```

```
#include <stdio.h>
#include <ctype.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() {
 int c = 'A';
 if (isascii(c))
  exit(0);
 else
  exit(1);
}
EOCP
set isascii
if eval $compile; then
 echo "isascii() found." >&4
 val="$define"
else
 echo "isascii() NOT found." >&4
 val="$undef"
fi
set d_isascii
eval $setvar
$rm -f isascii*
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_isascii.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: nblock_io.U,v 3.0.1.2 1997/02/28 16:17:14 ram Exp $
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: nblock_io.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:17:14  ram
?RCS: patch61: simplify here document for shells that can't handle them well
?RCS: patch61: force use of "startsh" at the head of the generated script
?RCS: patch61: added new files to the ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  14:13:22  ram
```

```
?RCS: patch56: created
?RCS:
?X:
?X: Simplify here document for shells that can't handle them well.
?X: (Problem reported on FreeBSD;
 it's unclear if this helps.)  --AD
?X:
?MAKE:o_nonblock eagain rd_nodata d_eofnblk: cat rm_try Compile run \
 d_open3 h_sysfile h_fcntl signal_t hint Oldconfig Setvar \
 startsh i_unistd i_fcntl i_stdlib d_fork d_pipe d_alarm
?MAKE: -pick add $@ %<
?S:o_nonblock:
?S: This variable bears the symbol value to be used during open() or fcntl()
?S: to turn on non-blocking I/O for a file descriptor. If you wish to switch
?S: between blocking and non-blocking, you may try ioctl(FIOSNBIO) instead,
?S: but that is only supported by some devices.
?S:.
?S:eagain:
?S: This variable bears the symbolic errno code set by read() when no
?S: data is present on the file and non-blocking I/O was enabled (otherwise,
?S: read() blocks naturally).
?S:.
?S:rd_nodata:
?S: This variable holds the return code from read() when no data is
?S: present. It should be -1, but some systems return 0 when O_NDELAY is
?S: used, which is a shame because you cannot make the difference between
?S: no data and an EOF.. Sigh!
?S:.
?S:d_eofnblk:
?S: This
 variable conditionally defines EOF_NONBLOCK if EOF can be seen
?S: when reading from a non-blocking I/O source.
?S:.
?C:VAL_O_NONBLOCK:
?C: This symbol is to be used during open() or fcntl(F_SETFL) to turn on
?C: non-blocking I/O for the file descriptor. Note that there is no way
?C: back, i.e. you cannot turn it blocking again this way. If you wish to
?C: alternatively switch between blocking and non-blocking, use the
?C: ioctl(FIOSNBIO) call instead, but that is not supported by all devices.
?C:.
?C:VAL_EAGAIN:
?C: This symbol holds the errno error code set by read() when no data was
?C: present on the non-blocking file descriptor.
?C:.
?C:RD_NODATA:
?C: This symbol holds the return code from read() when no data is present
?C: on the non-blocking file descriptor. Be careful! If EOF_NONBLOCK is
?C: not defined, then you can't distinguish between no data and EOF by
```

```
?C: issuing a read(). You'll have to find another way to tell for sure!
?C:.
?C:EOF_NONBLOCK:
?C: This
 symbol, if defined, indicates to the C program that a read() on
?C: a non-blocking file descriptor will return 0 on EOF, and not the value
?C: held in RD_NODATA (-1 usually, in that case!).
?C:.
?H:#define VAL_O_NONBLOCK $o_nonblock
?H:#define VAL_EAGAIN $eagain
?H:#define RD_NODATA $rd_nodata
?H:#$d_eofnblk EOF_NONBLOCK
?H:.
?T:status
?F:!try.out !try.ret !try.err !try !mtry
?LINT:use d_open3
: check for non-blocking I/O stuff
case "$h_sysfile" in
true) echo "#include <sys/file.h>" > head.c;;
*)
	case "$h_fcntl" in
	true) echo "#include <fcntl.h>" > head.c;;
	*) echo "#include <sys/fcntl.h>" > head.c;;
	esac
	;;
esac
echo " "
echo "Figuring out the flag used by open() for non-blocking I/O..." >&4
case "$o_nonblock" in
")
 $cat head.c > try.c
 $cat >>try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_fcntl I_FCNTL
#ifdef I_FCNTL
#include <fcntl.h>
#endif
int main() {
#ifdef O_NONBLOCK
 printf("O_NONBLOCK\n");
 exit(0);
#endif
#ifdef
```

```
 O_NDELAY
 printf("O_NDELAY\n");
 exit(0);
#endif
?X: Stevens "Advanced Programming in the UNIX Environment" page 364 mentions
?X: the FNDELAY symbol, used in 4.3BSD (source: Paul Marquess).
#ifdef FNDELAY
 printf("FNDELAY\n");
 exit(0);
#endif
 exit(0);
}
EOCP
 set try
 if eval $compile_ok; then
  o_nonblock=`$run ./try`
  case "$o_nonblock" in
  ") echo "I can't figure it out, assuming O_NONBLOCK will do.";;
  *) echo "Seems like we can use $o_nonblock.";;
  esac
 else
  echo "(I can't compile the test program; pray O_NONBLOCK is right!)"
 fi
 ;;
*) echo "Using $hint value $o_nonblock.";;
esac
$rm_try

echo " "
echo "Let's see what value errno gets from read() on a $o_nonblock file..." >&4
case "$eagain" in
")
 case "$d_fork:$d_pipe:$d_alarm" in
 define:define:define)
 $cat head.c > try.c
 $cat >>try.c <<EOCP
#include <errno.h>
#include <sys/types.h>
#include <signal.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_fcntl
 I_FCNTL
#ifdef I_FCNTL
#include <fcntl.h>
```

```
#endif
#define MY_O_NONBLOCK $o_nonblock
#ifndef errno  /* XXX need better Configure test */
extern int errno;
#endif
#$i_unistd I_UNISTD
#ifdef I_UNISTD
#include <unistd.h>
#endif
#include <string.h>
$signal_t blech(int x) { exit(3); }
EOCP
 $cat >> try.c <<'EOCP'
int main()
{
 int pd[2];
 int pu[2];
 char buf[1];
 char string[100];
 int ret;

 ret = pipe(pd); /* Down: child -> parent */
 if (ret != 0)
  exit(3);
 ret = pipe(pu); /* Up: parent -> child */
 if (ret != 0)
  exit(3);
 if (0 != fork()) {
  close(pd[1]); /* Parent reads from pd[0] */
  close(pu[0]); /* Parent writes (blocking) to pu[1] */
#ifdef F_SETFL
  if (-1 == fcntl(pd[0], F_SETFL, MY_O_NONBLOCK))
   exit(1);
#else
  exit(4);
#endif
  signal(SIGALRM, blech);
  alarm(5);
  if ((ret = read(pd[0], buf, 1)) > 0) /* Nothing to read! */
   exit(2);
  sprintf(string, "%d\n", ret);
  ret = write(2, string, strlen(string));
  if (ret != strlen(string))
   exit(3);
  alarm(0);
#ifdef
 EAGAIN
  if (errno == EAGAIN) {
```

```
   printf("EAGAIN\n");
   goto ok;
  }
#endif
#ifdef EWOULDBLOCK
  if (errno == EWOULDBLOCK)
   printf("EWOULDBLOCK\n");
#endif
 ok:
  ret = write(pu[1], buf, 1); /* Unblocks child, tell it to close our pipe */
  if (ret != 1)
   exit(3);
  sleep(2);    /* Give it time to close our pipe */
  alarm(5);
  ret = read(pd[0], buf, 1); /* Should read EOF */
  alarm(0);
  sprintf(string, "%d\n", ret);
  ret = write(4, string, strlen(string));
  if (ret != strlen(string))
   exit(3);
  exit(0);
 }

 close(pd[0]);   /* We write to pd[1] */
 close(pu[1]);   /* We read from pu[0] */
 ret = read(pu[0], buf, 1); /* Wait for parent to signal us we may continue */
 if (ret != 1)
  exit(3);
 close(pd[1]);   /* Pipe pd is now fully closed! */
 exit(0);    /* Bye bye, thank you for playing! */
}
EOCP
 set try
 if eval $compile_ok; then
?X: Use script to avoid the possible 'alarm call' message
  echo "$startsh" >mtry
  echo "$run ./try >try.out 2>try.ret 4>try.err
 || exit 4" >>mtry
  chmod +x mtry
  $run ./mtry >/dev/null 2>&1
  case $? in
  0) eagain=`$cat try.out`;;
  1) echo "Could not perform non-blocking setting!";;
  2) echo "I did a successful read() for something that was not there!";;
  3) echo "Hmm... non-blocking I/O does not seem to be working!";;
  4) echo "Could not find F_SETFL!";;
  *) echo "Something terribly wrong happened during testing.";;
  esac
```

```
 rd_nodata=`$cat try.ret`
 echo "A read() system call with no data present returns $rd_nodata."
 case "$rd_nodata" in
 0|-1) ;;
 *)
  echo "(That's peculiar, fixing that to be -1.)"
  rd_nodata=-1
  ;;
 esac
 case "$eagain" in
 ")
  echo "Forcing errno EAGAIN on read() with no data available."
  eagain=EAGAIN
  ;;
 *)
  echo "Your read() sets errno to $eagain when no data is available."
  ;;
 esac
 status=`$cat try.err`
 case "$status" in
 0) echo "And it correctly returns 0 to signal EOF.";;
 -1) echo "But it also returns -1 to signal EOF, so be careful!";;
 *)
echo "However, your read() returns '$status' on EOF??";;
 esac
 val="$define"
 if test "$status" = "$rd_nodata"; then
  echo "WARNING: you can't distinguish between EOF and no data!"
  val="$undef"
 fi
else
 echo "I can't compile the test program--assuming errno EAGAIN will do."
 eagain=EAGAIN
fi
;;
*) echo "Can't figure out how to test this--assuming errno EAGAIN will do."
 eagain=EAGAIN
 val="$define"
 ;;
esac
set d_eofnblk
eval $setvar
;;
*)
echo "Using $hint value $eagain."
echo "Your read() returns $rd_nodata when no data is present."
case "$d_eofnblk" in
"$define") echo "And you can see EOF because read() returns 0.";;
```

```
 "$undef") echo "But you can't see EOF status from read() returned value.";;
 *)
?X: Should not happen, but if it does, assume the worst!
  echo "(Assuming you can't see EOF status from read anyway.)"
  d_eofnblk=$undef
  ;;
 esac
 ;;
esac
$rm_try head.c mtry
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/nblock_io.U
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```
?RCS: $Id: d_endpent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_endpent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_endpent: Inlibc
?MAKE: -pick add $@ %<
?S:d_endpent:
?S: This variable conditionally defines HAS_ENDPROTOENT if endprotoent() is
?S: available to close whatever was being used for protocol queries.
?S:.
?C:HAS_ENDPROTOENT:
?C: This symbol, if defined, indicates that the endprotoent() routine is
?C: available to close whatever was being used
 for protocol queries.
?C:.
?H:#$d_endpent HAS_ENDPROTOENT  /**/
?H:.
?LINT:set d_endpent
: see if endprotoent exists
set endprotoent d_endpent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_endpent.U
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```
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?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_wctype: Inhdr
?MAKE: -pick add $@ %<
?S:i_wctype:
?S: This variable conditionally defines the I_WCTYPE symbol,
?S: that indicates whether a C program may include <wctype.h>.
?S:.
?C:I_WCTYPE:
?C: This symbol, if defined, indicates that <wctype.h> exists.
?C:.
?H:#$i_wctype I_WCTYPE  /**/
?H:.
?LINT:set i_wctype
: see if this system has wctype.h
set wctype.h i_wctype
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_wctype.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libs.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  16:09:11  ram
```

```
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.5  1995/07/25  14:12:05  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  16:24:22  ram
?RCS: patch36: removed old broken thislib/thatlib processing (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:05:44  ram
?RCS: patch30: code cleanup with if/elif by ADO and RAM
?RCS: patch30: undone patch23 for libswanted default
 setting
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:08:45  ram
?RCS: patch23: now includes ordered default libswanted variable (ADO)
?RCS: patch23: major cleanup for library lookups (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:02:31  ram
?RCS: patch6: added default for libs
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libs libsfound libsfiles libsdirs libspath libscheck: \
 test cat Myread Oldconfig Loc libpth package xlibpth so _a \
 +usesocks sed +cc +ccflags +ldflags rm
?MAKE: -pick add $@ %<
?S:libs:
?S: This variable holds the additional libraries we want to use.
?S: It is up to the Makefile to deal with it.  The list can be empty.
?S:.
?S:libsfound:
?S: This variable holds the full pathnames of the libraries
?S: we found and accepted.
?S:.
?S:libsfiles:
?S: This variable holds the filenames aka basenames of the libraries
?S: we found and accepted.
?S:.
?S:libsdirs:
?S: This variable holds the directory
 names aka dirnames of the libraries
?S: we found and accepted, duplicates are removed.
?S:.
?S:libspath:
?S: This variable holds the directory names probed for libraries.
?S:.
?S:libscheck:
```

```
?S: This variable is intended to be set by hint files, if needed.
?S: It should contain shell code that will be eval'ed with $xxx holding
?S: some library file.  It may change $xxx if needed.
?S: For instance, on an Irix platform, you may make sure the right
?S: library file is used depending on the cc command line, so that the
?S: correct library is used depending on the selected ABI (for 32 and
?S: 64-bit compilations).
?S:
?S: Here is an example of code that could be found in a hint file on Irix
?S: when the selected compiler was for 32-bit -- that code is put in the
?S: cc.cbu call-back unit to be invoked AFTER the C compiler and its
?S: flags have been chosen:
?S:
?S:  libscheck='case "$xxx" in
?S:  *.a) /bin/ar p $xxx `/bin/ar t $xxx | sed q` >$$.o;
?S:   case "`/usr/bin/file $$.o`" in
?S:   *N32*)
 rm -f $$.o ;;
?S:   *) rm -f $$.o; xxx=/no/n32$xxx ;;
?S:   esac ;;
?S:  *) case "`/usr/bin/file $xxx`" in
?S:   *N32*) ;;
?S:   *) xxx=/no/n32$xxx ;;
?S:   esac ;;
?S:  esac'
?S:.
?D:libs="
?LINT:extern libswanted
?LINT:change libswanted
?INIT:: default library list
?INIT:libswanted="
?X: This order is chosen so that libraries  -lndir, -ldir, -lucb, -lbsd,
?X: -lBSD, -lPW, and -lx only get used if there are unresolved
?X: routines at link time.  Usually, these are backwards compatability
?X: libraries, and may not be as reliable as the standard c library.
?X:
?X: The -lsocket -linet -lnsl order has been reported to be necessary
?X: for at least one SVR4 implementation.
?X: -lc must proceed -lucb or -lbsd for most Solaris applications.
?X: -lc_s proceeds -lc so we pick up the shared library version, if
?X: it is available.
?X:
?X: The ordering of c, posix, and cposix is a guess and almost
?X: certainly wrong on about half of all systems.
?X:
?X: Set proper libswanted in your private
 Myinit.U if needed.
?X:
```

```
?X:: default ordered library list
?X:libswanted='net socket inet bind nsl nm sdbm gdbm ndbm dbm malloc dl'
?X:libswanted="$libswanted dld sun m c_s c posix cposix ndir dir ucb"
?X:libswanted="$libswanted bsd BSD PW x"
?X:
?INIT:: should be set by hint files if needed
?INIT:libscheck="
?T:xxx yyy thislib thisdir libstyle linkmsg
?F:lt.c lt
: Looking for optional libraries
echo " "
echo "Checking for optional libraries..." >&4
case "$libs" in
' '|'') dflt='';;
*) dflt="$libs";;
esac
case "$libswanted" in
'') libswanted='c_s';;
esac
?X: libsocks has nasty naming scheme.
?X: This does not work if somebody wants SOCKS 4.
case "$usesocks" in
"$define") libswanted="$libswanted socks5 socks5_sh" ;;
esac
?X: Used later for link checks
echo "extern char printf(); int main() { printf(); return 0; }" > lt.c
libsfound="
libsfiles="
libsdirs="
libspath="
for thisdir in $libpth $xlibpth; do
 test -d $thisdir && libspath="$libspath $thisdir"
done
for thislib in $libswanted;
 do
 for thisdir in $libspath; do
    xxx=''
    if $test ! -f "$xxx" ; then
   xxx=`ls $thisdir/lib$thislib.$so.[0-9]* 2>/dev/null | $sed -n '1p'`
   $test -f "$xxx" && eval $libscheck
   $test -f "$xxx" && libstyle=shared
    fi
    if test ! -f "$xxx"; then
   xxx=$thisdir/lib$thislib.$so
   $test -f "$xxx" && eval $libscheck
   $test -f "$xxx" && libstyle=shared
    fi
    if test ! -f "$xxx"; then
```

```
  xxx=$thisdir/lib$thislib$_a
       $test -f "$xxx" && eval $libscheck
  $test -f "$xxx" && libstyle=static
    fi
    if test ! -f "$xxx"; then
  xxx=$thisdir/$thislib$_a
       $test -f "$xxx" && eval $libscheck
  $test -f "$xxx" && libstyle=static
    fi
    if test ! -f "$xxx"; then
  xxx=$thisdir/lib${thislib}_s$_a
       $test -f "$xxx" && eval $libscheck
  $test -f "$xxx" && libstyle=static
  $test -f "$xxx" && thislib=${thislib}_s
    fi
    if test ! -f "$xxx"; then
  xxx=$thisdir/Slib$thislib$_a
       $test -f "$xxx" && eval $libscheck
  $test
 -f "$xxx" && libstyle=static
    fi
    if $test -f "$xxx"; then
?X:
?X: It is not sufficient to find a .so on the disk.  We must make sure
?X: that we can indeed supply the -lfoo line on the cc line to link against
?X: that library.  On Linux for instance, a versionned .so will not be
?X: implicitly linked against, whereas it will work fine on Solaris 2.6.
?X:  --RAM, 10/10/2003
?X:
  if $cc -o lt $ccflags $ldflags lt.c -l$thislib >/dev/null 2>&1;
  then
   linkmsg=""
  else
   linkmsg=" but I can't link against it"
  fi
  case "$libstyle" in
  shared) echo "Found -l$thislib (shared)$linkmsg." ;;
  static) echo "Found -l$thislib$linkmsg." ;;
  *)      echo "Found -l$thislib ($libstyle)$linkmsg." ;;
  esac
  case " $dflt " in
  *"-l$thislib "*) ;;
  *)
   case "$linkmsg" in
   ")
    dflt="$dflt -l$thislib"
    libsfound="$libsfound $xxx"
    yyy=`basename $xxx`
```

```
    libsfiles="$libsfiles $yyy"
    yyy=`echo $xxx|$sed -e "s%/$yyy\\$%%"`
    case " $libsdirs
 " in
    *" $yyy "*) ;;
    *) libsdirs="$libsdirs $yyy" ;;
    esac
      ;;
   esac
   ;;
  esac
  break
    fi
 done
 if $test ! -f "$xxx"; then
    echo "No -l$thislib."
 fi
done
set X $dflt
shift
dflt="$*"
case "$libs" in
") dflt="$dflt";;
*) dflt="$libs";;
esac
case "$dflt" in
' '|") dflt='none';;
esac
$rm -f lt.c lt

$cat <<EOM

In order to compile $package on your machine, a number of libraries
are usually needed.  Include any other special libraries here as well.
Say "none" for none.  The default list is almost always right.
EOM

echo " "
rp="Which libraries to use?"
. ./myread
case "$ans" in
none) libs=' ';;
*) libs="$ans";;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/libs.U

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```
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_pthread: Inhdr
?MAKE: -pick add $@ %<
?S:i_pthread:
?S: This variable conditionally defines the I_PTHREAD symbol,
?S: and indicates whether a C program should include <pthread.h>.
?S:.
?C:I_PTHREAD:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <pthread.h>.
?C:.
?H:#$i_pthread   I_PTHREAD /**/
?H:.
?LINT:set i_pthread
: see if POSIX threads are available
set pthread.h i_pthread
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/i_pthread.U
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```
?RCS: $Id: Mkdirp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extract.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  14:58:52  ram
?RCS: patch61: added support for src.U
?RCS:
```

```
?RCS: Revision 3.0.1.1  1994/10/29  15:51:46  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which can launched to create a
?X: directory path like "mkdir -p" would do.
?X:
?MAKE:Mkdirp:
 eunicefix startsh
?MAKE: -pick add $@ %<
?F:./mkdirp
?T:name create file
: script used to emulate mkdir -p
cat >mkdirp <<EOS
$startsh
EOS
cat >>mkdirp <<'EOS'
name=$1;
create="";
while test $name; do
 if test ! -d "$name"; then
  create="$name $create"
  name=`echo $name | sed -e "s|^[^/]*$||"`
  name=`echo $name | sed -e "s|\(.*\)/.*|\1|"`
 else
  name=""
 fi
done
for file in $create; do
 mkdir $file
done
EOS
chmod +x mkdirp
$eunicefix mkdirp
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Mkdirp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strcoll.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_strcoll.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:12:01  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_strcoll: Inlibc
?MAKE: -pick add $@ %<
?S:d_strcoll:
?S: This variable conditionally defines HAS_STRCOLL if strcoll() is
?S: available to compare strings using collating information.
?S:.
?C:HAS_STRCOLL:
?C: This symbol, if defined, indicates that the strcoll routine
 is
?C: available to compare strings using collating information.
?C:.
?H:#$d_strcoll HAS_STRCOLL /**/
?H:.
?LINT:set d_strcoll
: see if strcoll exists
set strcoll d_strcoll
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strcoll.U
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```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_towlower: Inlibc
?MAKE: -pick add $@ %<
?S:d_towlower:
?S: This variable conditionally defines the HAS_TOWLOWER symbol, which
?S: indicates to the C program that the towlower() routine is available.
?S:.
?C:HAS_TOWLOWER:
```

```
?C: This symbol, if defined, indicates that the towlower () routine is
?C: available to do case conversion.
?C:.
?H:#$d_towlower HAS_TOWLOWER  /**/
?H:.
?LINT:set d_towlower
: see if towlower exists
set towlower d_towlower
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_towlower.U
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```
?RCS: $Id: d_getservprotos.U,v $
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_getservprotos : Hasproto i_netdb
?MAKE: -pick add $@ %<
?S:d_getservprotos:
?S: This variable conditionally defines the HAS_GETSERV_PROTOS symbol,
?S: which indicates to the C program that <netdb.h> supplies
?S: prototypes for the various getserv*() functions.
?S: See also netdbtype.U for probing for various netdb types.
?S:.
?C:HAS_GETSERV_PROTOS:
?C: This symbol, if defined, indicates that <netdb.h> includes
?C: prototypes for getservent(), getservbyname(), and
?C: getservbyaddr().  Otherwise,
 it is up to the program to guess
?C: them.  See netdbtype.U for probing for various Netdb_xxx_t types.
?C:.
?H:#$d_getservprotos HAS_GETSERV_PROTOS /**/
?H:.
?LINT:set d_getservprotos
: see if prototypes for various getservxxx netdb.h functions are available
echo " "
set d_getservprotos getservent $i_netdb netdb.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/d_getservprotos.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2005-2007 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_cplusplus: Compile Setvar run cat rm_try
?MAKE: -pick add $@ %<
?S:d_cplusplus (d_cplusplus.U):
?S: This variable conditionally defines the USE_CPLUSPLUS symbol, which
?S: indicates that a C++ compiler was used to compiled Perl and will be
?S: used to compile extensions.
?S:.
?C:USE_CPLUSPLUS:
?C: This symbol, if defined, indicates that a C++ compiler was
?C: used to compiled Perl and will be used to compile extensions.
?C:.
?H:#$d_cplusplus USE_CPLUSPLUS  /**/
?H:.
?F:!try
?LINT:set d_cplusplus
: Check if we are using C++
echo " "
echo "Checking for C++..." >&4
$cat >try.c <<'EOCP'
#include <stdio.h>
int main(void)
{
#ifdef __cplusplus
   return 0;
#else
   return 1;
#endif
}
EOCP
set try
if eval $compile_ok
 && $run ./try; then
 val="$define"
 echo "You are using a C++ compiler."
else
 val="$undef"
 echo "You are not using a C++ compiler."
fi
```

```
$rm_try cplusplus$$
set d_cplusplus
eval $setvar

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_cplusplus.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtouq: Inlibc cat Compile run
?MAKE: -pick add $@ %<
?S:d_strtouq:
?S: This variable conditionally defines the HAS_STRTOUQ symbol, which
?S: indicates to the C program that the strtouq() routine is available.
?S:.
?C:HAS_STRTOUQ:
?C: This symbol, if defined, indicates that the strtouq routine is
?C: available to convert strings to unsigned long longs (quads).
?C:.
?H:#$d_strtouq HAS_STRTOUQ  /**/
?H:.
?F:!try
: see if strtouq exists
set strtouq d_strtouq
eval $inlibc

case "$d_strtouq" in
"$define")
 $cat <<EOM
Checking whether your strtouq() works okay...
EOM
 $cat >try.c <<'EOCP'
#include <stdlib.h>
#include <errno.h>
#include <stdio.h>
static int bad = 0;
void check(const char *s, unsigned
 long long eull, int een) {
 unsigned long long gull;
 errno = 0;
 gull = strtouq(s, 0, 10);
```

```
 if (!((gull == eull) && (errno == een)))
  bad++;
}
int main() {
 check(" 1",                                1LL, 0);
 check(" 0",                                0LL, 0);
 check("18446744073709551615",  18446744073709551615ULL, 0);
 check("18446744073709551616",  18446744073709551615ULL, ERANGE);
#if 0 /* strtouq() for /^-/ strings is undefined. */
 check("-1",                  18446744073709551615ULL, 0);
 check("-18446744073709551614",                  2LL, 0);
 check("-18446744073709551615",                  1LL, 0);
 check("-18446744073709551616", 18446744073709551615ULL, ERANGE);
 check("-18446744073709551617", 18446744073709551615ULL, ERANGE);
#endif
 if (!bad)
  printf("ok\n");
 return 0;
}
EOCP
 set try
 if eval $compile; then
  case "`$run ./try`" in
  ok) echo "Your strtouq() seems to be working okay." ;;
  *) cat <<EOM >&4
Your strtouq() doesn't seem to be working
 okay.
EOM
     d_strtouq="$undef"
     ;;
  esac
 else
  echo "(I can't seem to compile the test program--assuming it doesn't)"
  d_strtouq="$undef"
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strtouq.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_systimeb.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_systimeb.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:37  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit looks wether <sys/timeb.h> should be included
?X: or not when using ftime() (for struct timeb definition).
?X:
?X: Force looking for <sys/time.h> for struct timeb.
?X:INC: i_systime
?MAKE:i_systimeb: test contains Loc Setvar Findhdr
?MAKE: -pick add $@ %<
?S:i_systimeb:
?S: This variable conditionally defines I_SYS_TIMEB,
 which indicates
?S: to the C program that it should include <sys/timeb.h>.
?S:.
?C:I_SYS_TIMEB (I_SYSTIMEB):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/timeb.h>, in order to define struct timeb (some systems
?C: define this in <sys/time.h>). This is useful when using ftime().
?C: You should include <sys/time.h> if I_SYS_TIMEB is not defined,
?C: nor is I_SYS_TIME.
?C:.
?H:#$i_systimeb I_SYS_TIMEB  /**/
?H:.
?T:xxx
?LINT:set i_systimeb
: see where struct timeb is defined
echo " "
xxx=`./findhdr sys/timeb.h`
if $test "$xxx"; then
 if $contains 'struct timeb' $xxx >/dev/null 2>&1; then
  val="$define"
  echo "You have struct timeb defined in <sys/timeb.h>." >&4
 else
  val="$undef"
  echo "Assuming struct timeb is defined in <sys/time.h>." >&4
 fi
else
 val="$undef"
echo "No <sys/timeb.h> -- Assuming struct timeb is defined in <sys/time.h>." >&4
fi
```

```
set i_systimeb
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_systimeb.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: packadmin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:packadmin: cf_email Oldconfig Myread cat spackage package
?MAKE: -pick add $@ %<
?Y:TOP
?S:packadmin:
?S: Electronic mail address of the package administrator.
?S:.
: check wehther they will act as local admin for the package
$cat <<EOM

If you or somebody else will be maintaining $package at your site, please
fill in the correct e-mail address here so that they may be contacted
if necessary.  You may enter "none"
 for no administrator.

EOM
case "$packadmin" in
") dflt="$cf_email";;
*) dflt="$packadmin";;
esac
rp="$spackage administrator e-mail address"
. ./myread
packadmin="$ans"
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/packadmin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_vfork.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_vfork.U,v $
?RCS: Revision 3.0.1.1  1994/05/06  15:05:44  ram
?RCS: patch23: avoid inclusion of <vfork.h> if no vfork() used (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_vfork: Inhdr d_vfork
?MAKE: -pick add $@ %<
?S:i_vfork:
?S: This variable conditionally defines the I_VFORK symbol, and indicates
?S: whether a C program should include vfork.h.
?S:.
?C:I_VFORK:
?C: This symbol,
 if defined, indicates to the C program that it should
?C: include vfork.h.
?C:.
?H:#$i_vfork I_VFORK /**/
?H:.
: see if this is a vfork system
case "$d_vfork" in
"$define")
 set vfork.h i_vfork
 eval $inhdr
 ;;
*)
 i_vfork="$undef"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_vfork.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
```

```
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_socks5_init: Inlibc
?MAKE: -pick add $@ %<
?S:d_socks5_init:
?S: This variable conditionally defines the HAS_SOCKS5_INIT symbol, which
?S: indicates to the C program that the socks5_init() routine is available.
?S:.
?C:HAS_SOCKS5_INIT:
?C: This symbol, if defined, indicates that the socks5_init routine is
?C: available to initialize SOCKS 5.
?C:.
?H:#$d_socks5_init HAS_SOCKS5_INIT  /**/
?H:.
?LINT:set d_socks5_init
: see if socks5_init exists
set socks5_init d_socks5_init
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_socks5_init.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getnetbyname_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getnetbyname_r getnetbyname_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_getnetbyname_r:
?S: This variable conditionally defines the HAS_GETNETBYNAME_R symbol,
?S: which indicates to the C program that the getnetbyname_r()
?S: routine is available.
?S:.
?S:getnetbyname_r_proto:
?S: This variable encodes the prototype of getnetbyname_r.
?S: It is zero if d_getnetbyname_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getnetbyname_r
?S: is defined.
?S:.
```

```
?C:HAS_GETNETBYNAME_R:
?C: This symbol, if defined, indicates that
 the getnetbyname_r routine
?C: is available to getnetbyname re-entrantly.
?C:.
?C:GETNETBYNAME_R_PROTO:
?C: This symbol encodes the prototype of getnetbyname_r.
?C: It is zero if d_getnetbyname_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getnetbyname_r
?C: is defined.
?C:.
?H:#$d_getnetbyname_r HAS_GETNETBYNAME_R /**/
?H:#define GETNETBYNAME_R_PROTO $getnetbyname_r_proto /**/
?H:.
?T:try hdrs d_getnetbyname_r_proto
: see if getnetbyname_r exists
set getnetbyname_r d_getnetbyname_r
eval $inlibc
case "$d_getnetbyname_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_getnetbyname_r_proto:$usethreads" in
 ":define") d_getnetbyname_r_proto=define
  set d_getnetbyname_r_proto getnetbyname_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getnetbyname_r_proto" in
 define)
 case "$getnetbyname_r_proto" in
 "|0) try='int getnetbyname_r(const char*, struct netent*, char*, size_t, struct netent**, int*);'
 ./protochk "$extern_C
 $try" $hdrs && getnetbyname_r_proto=I_CSBWRE ;;
 esac
 case "$getnetbyname_r_proto" in
 "|0) try='int getnetbyname_r(const char*, struct netent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getnetbyname_r_proto=I_CSBI ;;
 esac
 case "$getnetbyname_r_proto" in
 "|0) try='struct netent* getnetbyname_r(const char*, struct netent*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getnetbyname_r_proto=S_CSBI ;;
 esac
 case "$getnetbyname_r_proto" in
 "|0) try='int getnetbyname_r(const char*, struct netent*, struct netent_data*);'
 ./protochk "$extern_C $try" $hdrs && getnetbyname_r_proto=I_CSD ;;
 esac
 case "$getnetbyname_r_proto" in
 "|0) d_getnetbyname_r=undef
```

```
  getnetbyname_r_proto=0
  echo "Disabling getnetbyname_r, cannot determine prototype." >&4 ;;
 * ) case "$getnetbyname_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getnetbyname_r_proto="REENTRANT_PROTO_$getnetbyname_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo
 "getnetbyname_r has no prototype, not using it." >&4 ;;
  esac
  d_getnetbyname_r=undef
  getnetbyname_r_proto=0
  ;;
 esac
 ;;
*) getnetbyname_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getnetbyname_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Begin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Begin.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  14:56:35  ram
?RCS: patch61: added Extractall dependency
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:25:08  ram
?RCS: patch49: avoid an empty rmlist: systems might choke on it (WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/31  09:32:20  ram
?RCS: patch44: created
?RCS:
?X:
```

```
?X: This file comes after option processing had been done and after all
?X: the default values have been set up. It marks the beginning
 of questions.
?X: It is important that Options be listed *after* Myinit to ensure that the
?X: default initializations performed by Init and Myinit will not clobber
?X: any setting done on the command line via -D or -U.
?X:
?MAKE:Begin: Myinit Options package Extractall
?MAKE: -pick add $@ %<
: Eunice requires " " instead of "", can you believe it
echo " "
: Here we go...
echo "Beginning of configuration questions for $package."

?X: Make sure the rm below is given a non-empty list for some systems.
?X: This is run only when within the UU directory, hence we can safely
?X: attempt to rm a non-existent 'X' file...
trap 'echo " "; test -d ../UU && rm -rf X $rmlist; exit 1' 1 2 3 15
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Begin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_inetaton.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Spider Boardman
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_inetaton.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:36:35  ram
?RCS: patch61: created
?RCS:
?MAKE:d_inetaton: Inlibc
?MAKE: -pick add $@ %<
?S:d_inetaton:
?S: This variable conditionally defines the HAS_INET_ATON symbol, which
?S: indicates to the C program that the inet_aton() function is available
?S: to parse IP address "dotted-quad" strings.
?S:.
?C:HAS_INET_ATON:
?C: This symbol, if defined, indicates
```

```
 to the C program that the
?C: inet_aton() function is available to parse IP address "dotted-quad"
?C: strings.
?C:.
?H:#$d_inetaton HAS_INET_ATON  /**/
?H:.
?LINT:set d_inetaton
: check whether inet_aton exists
set inet_aton d_inetaton
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_inetaton.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_cuserid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_cuserid.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:25  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_cuserid: Inlibc
?MAKE: -pick add $@ %<
?S:d_cuserid:
?S: This variable conditionally defines the HAS_CUSERID symbol, which
?S: indicates to the C program that the cuserid() routine is available
?S: to get character login names.
?S:.
?C:HAS_CUSERID :
?C: This symbol,
 if defined, indicates that the cuserid routine is
?C: available to get character login names.
?C:.
?H:#$d_cuserid HAS_CUSERID  /**/
?H:.
?LINT:set d_cuserid
: see if cuserid exists
```

```
set cuserid d_cuserid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_cuserid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_remquo: Inlibc
?MAKE: -pick add $@ %<
?S:d_remquo:
?S: This variable conditionally defines the HAS_REMQUO symbol, which
?S: indicates to the C program that the remquo() routine is available.
?S:.
?C:HAS_REMQUO:
?C: This symbol, if defined, indicates that the remquo routine is
?C: available to return the remainder and part of quotient.
?C:.
?H:#$d_remquo HAS_REMQUO  /**/
?H:.
?LINT:set d_remquo
: see if remquo exists
set remquo d_remquo
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_remquo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_csh.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:32:18  ram
?RCS: patch61: added full_csh to preserve the full path even when portable
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:53  ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_csh full_csh: csh Setvar
?MAKE: -pick add $@ %<
?S:d_csh:
?S: This variable conditionally defines the CSH symbol, which
?S: indicates to the C program that the C-shell exists.
?S:.
?S:full_csh:
?S: This variable contains the full pathname to 'csh', whether
 or
?S: not the user has specified 'portability'.  This is only used
?S: in the compiled C program, and we assume that all systems which
?S: can share this executable will have the same full pathname to
?S: 'csh.'
?S:.
?C:HAS_CSH:
?C: This symbol, if defined, indicates that the C-shell exists.
?C:.
?C:CSH:
?C: This symbol, if defined, contains the full pathname of csh.
?C:.
?X: Previously, I just did $d_csh CSH "$full_csh", but that caused
?X: problems on VMS where the config.sh extraction program changes
?X: $undef to a real cpp undef, and they then had  #undef CSH ""
?X: which the compiler didn't like.  It's easy to work around this,
?X: so I did.  --AD  3/1998.
?X: And we don't want to define CSH if !HAS_CSH, but we don't want
?X: those lines in config.h if they don't need CSH, so protect with ?CSH
?X: and not ?%<. --RAM, 15/02/2004
?H:?%<:#$d_csh HAS_CSH  /**/
?H:?CSH:#ifdef HAS_CSH
?H:?CSH:#define CSH "$full_csh" /**/
?H:?CSH:#endif
?H:.
?LINT:set d_csh
: get csh whereabouts
case
 "$csh" in
'csh') val="$undef" ;;
*) val="$define" ;;
esac
set d_csh
eval $setvar
: Respect a hint or command line value for full_csh.
case "$full_csh" in
") full_csh=$csh ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_csh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_syssock.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_syssock.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:36  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_syssock: Inhdr
?MAKE: -pick add $@ %<
?S:i_syssock:
?S: This variable conditionally defines the I_SYS_SOCKET symbol, and indicates
?S: whether a C program should include <sys/socket.h> before performing socket
?S: operations.
?S:.
?C:I_SYS_SOCKET:
?C: This symbol, if defined, indicates to the C program that it should
?C: include
 <sys/socket.h> before performing socket calls.
?C:.
?H:#$i_syssock I_SYS_SOCKET  /**/
?H:.
?LINT:set i_syssock
: see if this is a sys/socket.h system
set sys/socket.h i_syssock
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_syssock.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: contains.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 2020, Raphael Manfredi and Karl Williamson
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:compiler_warning: contains grep osname
?MAKE: -pick add $@ %<
?S:compiler_warning:
?S: This variable holds the command to check if the file specified as a
?S: parameter contains a compiler warning
?S:.
: See if a file contains compiler warnings
: See if a file contains compiler warnings
case "$osname" in
 'aix')
 cat >compiler_warning <<EOSS
# Sample for aix ('.5' indicates the column number in the line):
#    "op.h", line 203.5: 1506-159 (E) Bit field
 type specified for op_type
# Since the word 'warning' isn't present, use a fairly rigorous match of what
# warning messages look like
#           "    o       p       .  h   ", line    203      .   5       :   1506     -    159      (  E  )
$grep -E "^\\"[A-Za-z][A-Za-z0-9_]*\.[ch]\\", line [1-9][0-9]*[.][1-9][0-9]*: [1-9][0-9]*-[1-9][0-9]* \([EW][)] "
"\$1"
EOSS
      compiler_warning=./compiler_warning
      chmod +x $compiler_warning
   ;;
    # Maybe a colon after the 'warning' would be appropriate
 *) compiler_warning="$contains -i warning"
   ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/compiler_warning.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isless: cat Compile rm_try Setvar
?MAKE: -pick add $@ %<
?S:d_isless:
?S: This variable conditionally defines the HAS_ISLESS symbol, which
?S: indicates to the C program that the isless() routine is available.
?S:.
```

```
?C:HAS_ISLESS:
?C: This symbol, if defined, indicates that the isless routine is
?C: available to do the isless function.
?C:.
?H:#$d_isless HAS_ISLESS  /**/
?H:.
?LINT:set d_isless
: check for isless
echo "Checking to see if you have isless..." >&4
$cat >try.c <<EOCP
#include <math.h>
int main() { return isless(2.0, 1.0); }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have isless."
else
 val="$undef"
 echo "You do not have isless."
fi
$rm_try
set d_isless
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_isless.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getsrvby.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getsbyname d_getsbyport: Inlibc
?MAKE: -pick add $@ %<
?S:d_getsbyname:
?S: This variable conditionally defines the HAS_GETSERVBYNAME
?S: symbol, which indicates to the C program that the
?S: getservbyname() routine is available to look up services
?S: by their name.
?S:.
?S:d_getsbyport:
?S: This variable conditionally defines the HAS_GETSERVBYPORT
?S: symbol, which indicates to the C program that the
```

```
?S: getservbyport() routine is available to look up services
?S: by their port.
?S:.
?C:HAS_GETSERVBYNAME:
?C: This symbol, if defined, indicates that the getservbyname()
?C: routine is available to look up services by their name.
?C:.
?C:HAS_GETSERVBYPORT:
?C: This symbol, if defined,
 indicates that the getservbyport()
?C: routine is available to look up services by their port.
?C:.
?H:#$d_getsbyname HAS_GETSERVBYNAME  /**/
?H:#$d_getsbyport HAS_GETSERVBYPORT  /**/
?H:.
?LINT:set d_getsbyname d_getsbyport
: Optional checks for getsbyname and getsbyport

@if d_getsbyname || HAS_GETSERVBYNAME
: see if getservbyname exists
set getservbyname d_getsbyname
eval $inlibc
@end

@if d_getsbyport || HAS_GETSERVBYPORT
: see if getservbyport exists
set getservbyport d_getsbyport
eval $inlibc
@end
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_getsrvby.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_volatile.U,v 3.0.1.2 1995/07/25 14:08:49 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_volatile.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:08:49  ram
?RCS: patch56: made cc and ccflags optional dependencies
```

```
?RCS:
?RCS: Revision 3.0.1.1  1993/09/09  11:49:51  ram
?RCS: patch9: volatile definition was swapped over with undef
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_volatile: cat +cc +ccflags rm_try Setvar
?MAKE: -pick add $@ %<
?S:d_volatile:
?S: This variable conditionally
 defines the HASVOLATILE symbol, which
?S: indicates to the C program that this C compiler knows about the
?S: volatile declaration.
?S:.
?C:HASVOLATILE ~ %<:
?C: This symbol, if defined, indicates that this C compiler knows about
?C: the volatile declaration.
?C:.
?H:?%<:#$d_volatile HASVOLATILE /**/
?H:?%<:#ifndef HASVOLATILE
?H:?%<:#define volatile
?H:?%<:#endif
?H:.
?LINT:set d_volatile
?LINT:known volatile
: check for volatile keyword
echo " "
echo 'Checking to see if your C compiler knows about "volatile"...' >&4
$cat >try.c <<'EOCP'
int main()
{
?X:
?X: The following seven lines added by Bill Campbell <billc@sierra.com>
?X: detect that MIPS compilers do not handle volatile in all situations.
?X:
 typedef struct _goo_struct goo_struct;
 goo_struct * volatile goo = ((goo_struct *)0);
 struct _goo_struct {
  long long_int;
  int reg_int;
  char char_var;
 };
 typedef unsigned short foo_t;
 char *volatile foo;
 volatile int bar;
 volatile foo_t blech;
 foo = foo;
```

```
}
EOCP
if $cc
 -c $ccflags try.c >/dev/null 2>&1 ; then
 val="$define"
 echo "Yup, it does."
else
 val="$undef"
 echo "Nope, it doesn't."
fi
set d_volatile
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_volatile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpwent.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_getpwent.U,v $
?RCS:
?MAKE:d_getpwent: Inlibc
?MAKE: -pick add $@ %<
?S:d_getpwent:
?S: This variable conditionally defines the HAS_GETPWENT symbol, which
?S: indicates to the C program that the getpwent() routine is available
?S: for sequential access of the passwd database.
?S:.
?C:HAS_GETPWENT:
?C: This symbol, if defined, indicates that the getpwent routine is
?C: available for sequential access of the passwd database.
?C: If this is not available, the older getpw() function may be available.
?C:.
?H:#$d_getpwent HAS_GETPWENT  /**/
?H:.
?LINT:set d_getpwent
: see if getpwent exists
set getpwent d_getpwent
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_getpwent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_bzero.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_bzero.U,v $
?RCS: Revision 3.0.1.2  1993/10/16  13:48:15  ram
?RCS: patch12: added magic support for bzero()
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:01:33  ram
?RCS: patch10: now only defines HAS_BZERO, no macro remap on memset (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_bzero: Inlibc
?MAKE: -pick add $@ %<
?S:d_bzero:
?S: This variable conditionally defines the HAS_BZERO
 symbol if
?S: the bzero() routine is available to set memory to 0.
?S:.
?C:HAS_BZERO:
?C: This symbol is defined if the bzero() routine is available to
?C: set a memory block to 0.
?C:.
?H:#$d_bzero HAS_BZERO /**/
?H:.
?M:bzero: HAS_BZERO
?M:#ifndef HAS_BZERO
?M:#ifndef bzero
?M:#define bzero(s,l) memset((s),0,(l))
?M:#endif
?M:#endif
?M:.
?LINT:set d_bzero
: see if bzero exists
set bzero d_bzero
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_bzero.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_castneg.U,v $
?RCS: Revision 3.0.1.2  1995/05/12  12:11:21  ram
?RCS: patch54: made sure cc and ccflags are conditional dependencies
?RCS: patch54: added improved test case for Interactive Unix
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:10:50  ram
?RCS: patch36: don't forget to tell user about compilation failures (ADO)
?RCS: patch36: declare signal handler correctly using 'signal_t' (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Can
 the compiler cast negative / odd floats to unsigned values.
?X:
?MAKE:d_castneg castflags: cat +cc +ccflags rm_try Setvar signal_t
?MAKE: -pick add $@ %<
?S:d_castneg:
?S: This variable conditionally defines CASTNEG, which indicates
?S: wether the C compiler can cast negative float to unsigned.
?S:.
?S:castflags:
?S: This variable contains a flag that precise difficulties the
?S: compiler has casting odd floating values to unsigned long:
?S:  0 = ok
?S:  1 = couldn't cast < 0
?S:  2 = couldn't cast >= 0x80000000
?S:  4 = couldn't cast in argument expression list
?S:.
?C:CASTNEGFLOAT:
?C: This symbol is defined if the C compiler can cast negative
```

```
?C: numbers to unsigned longs, ints and shorts.
?C:.
?C:CASTFLAGS:
?C: This symbol contains flags that say what difficulties the compiler
?C: has casting odd floating values to unsigned long:
?C:  0 = ok
?C:  1 = couldn't cast < 0
?C:  2 = couldn't cast >= 0x80000000
?C:  4 = couldn't cast in argument expression list
?C:.
?H:#$d_castneg CASTNEGFLOAT  /**/
?H:#define
 CASTFLAGS $castflags  /**/
?H:.
?F:!try
?LINT:set d_castneg
: check for ability to cast negative floats to unsigned
echo " "
echo 'Checking whether your C compiler can cast negative float to unsigned.' >&4
$cat >try.c <<EOCP
#include <sys/types.h>
#include <signal.h>
$signal_t blech() { exit(7); }
$signal_t blech_in_list() { exit(4); }
unsigned long dummy_long(p) unsigned long p; { return p; }
unsigned int dummy_int(p) unsigned int p; { return p; }
unsigned short dummy_short(p) unsigned short p; { return p; }
int main()
{
 double f = -123.;
 unsigned long along;
 unsigned int aint;
 unsigned short ashort;
 int result = 0;

 signal(SIGFPE, blech);
 along = (unsigned long)f;
 aint = (unsigned int)f;
 ashort = (unsigned short)f;
 if (along != (unsigned long)-123)
  result |= 1;
 if (aint != (unsigned int)-123)
  result |= 1;
 if (ashort != (unsigned short)-123)
  result |= 1;
 f = (double)0x40000000;
 f = f + f;
 along = 0;
```

```
along = (unsigned long)f;
if
(along != 0x80000000)
 result |= 2;
f -= 1.;
along = 0;
along = (unsigned long)f;
if (along != 0x7fffffff)
 result |= 1;
f += 2.;
along = 0;
along = (unsigned long)f;
if (along != 0x80000001)
 result |= 2;
if (result)
 exit(result);
?X:
?X: The following is a test for Interactive Unix Version 4.1, which
?X: has an 'improved' compiler which can correctly cast negative
?X: floats in expression lists, but apparently not in argument lists.
?X: Contributed by Winfried Koenig <win@incom.rhein-main.de>
?X:
signal(SIGFPE, blech_in_list);
f = 123.;
along = dummy_long((unsigned long)f);
aint = dummy_int((unsigned int)f);
ashort = dummy_short((unsigned short)f);
if (along != (unsigned long)123)
 result |= 4;
if (aint != (unsigned int)123)
 result |= 4;
if (ashort != (unsigned short)123)
 result |= 4;
exit(result);

}
EOCP
if $cc $ccflags -o try try.c >/dev/null 2>&1; then
 ./try
 castflags=$?
else
 echo "(I can't seem to compile the test program--assuming it can't)"
 castflags=7
fi
case
 "$castflags" in
0) val="$define"
 echo "Yup, it can."
```

```
 ;;
*) val="$undef"
 echo "Nope, it can't."
 ;;
esac
set d_castneg
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_castneg.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sysconf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_sysconf.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:15:57  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_sysconf: Inlibc
?MAKE: -pick add $@ %<
?S:d_sysconf:
?S: This variable conditionally defines the HAS_SYSCONF symbol, which
?S: indicates to the C program that the sysconf() routine is available
?S: to determine system related limits and options.
?S:.
?C:HAS_SYSCONF:
?C: This
 symbol, if defined, indicates that sysconf() is available
?C: to determine system related limits and options.
?C:.
?H:#$d_sysconf HAS_SYSCONF /**/
?H:.
?LINT:set d_sysconf
: see if sysconf exists
set sysconf d_sysconf
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sysconf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Warn_v7ND.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Warn_v7ND.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:01:46  ram
?RCS: patch36: call ./v7 explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:18  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit warns V7 sites that they may not have a non-blocking read.
?X: This unit needs to be mentioned in End.U to get included.
?X:
?MAKE:Warn_v7ND: package Guess
?MAKE: -pick add $@ %<
: Warnings
if ./v7; then
 cat
 <<EOM

NOTE: many V7 systems do not have a way to do a non-blocking read.  If you
don't have any of FIONREAD, O_NDELAY, or rdchk(), the $package package
may not work as well as it might.  It might not work at all.
EOM
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Warn_v7ND.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_normsig.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_normsig.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:37:03  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:14:48  ram
?RCS: patch36: call ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_normsig jobslib: test Setvar Guess _a
?MAKE: -pick add $@ %<
?S:d_normsig:
?S: This variable conditionally
 defines the NORMSIG symbol, which
?S: indicates to the C program that the normal signal handling routines
?S: should be used, as opposed to the ones in 4.1bsd (sigset, etc.).
?S:.
?S:jobslib:
?S: This variable holds the argument to be passed to the loader to include
?S: the strange signal handling routines from 4.1bsd.  On systems that
?S: have NORMSIG defined this variable is null.
?S:.
?C:NORMSIG:
?C: This symbol, if defined, indicates that normal signal handling routines
?C: should be used, as opposed to the ones in 4.1bsd (sigset, etc.).
?C:.
?H:#$d_normsig NORMSIG  /**/
?H:.
?LINT:set d_normsig
: see if we need -ljobs and if we have sigset, etc.
echo " "
if $test -r /usr/lib/libjobs$_a || $test -r /usr/local/lib/libjobs$_a ; then
 echo "Jobs library found." >&4
 val="$undef"
 jobslib='-ljobs'
else
 if ./bsd; then
  echo "No jobs library found. (I suppose this is at least 4.2...)" >&4
 else
  echo "No jobs library found. (That's okay, we all have our faults.)" >&4
```

```
 fi
 val="$define"
 jobslib="
fi
set
 d_normsig
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_normsig.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strerror_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_strerror_l:
?S: This variable conditionally defines the HAS_STRERROR_L symbol, which
?S: indicates to the C program that the strerror_l() routine is available
?S: to return the error message for a given errno value in a particular
?S: locale (identified by a locale_t object).
?S:.
?C:HAS_STRERROR_L:
?C: This symbol, if defined, indicates that the strerror_l routine is
?C: available to return the error message for a given errno value in
?C: a particular locale (identified by a locale_t object).
?C:.
?H:#$d_strerror_l HAS_STRERROR_L  /**/
?H:.
?LINT:set d_strerror_l
: see if strerror_l exists
set strerror_l d_strerror_l
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strerror_l.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Prefixit.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Prefixit.U,v $
?RCS: Revision 3.0.1.1  1995/01/30  14:29:22  ram
?RCS: patch49: created
?RCS:
?X:
?X: Used as: "set dflt var dir; eval $prefixit" to set $dflt to be
?X: $prefix/dir by default, or the previous $var depending on certain
?X: conditions:
?X: - If the $oldprefix variable is empty, then $prefix holds the same
?X:   value as on previous runs. Therefore, reuse $var if set, otherwise
?X:   set $dflt to $prefix/dir.
?X: - If $oldprefix is not
 empty, then set $dflt to $prefix/dir if $var
?X:   is empty (first run). Otherwise, if $var is $oldprefix/dir, then
?X:   change it to $prefix/dir. If none of the above, reuse the old $var.
?X:
?X: When dir is omitted, the dflt variable is set to $var if prefix did not
?X: change, to an empty value otherwise. If dir=none, then a single space
?X: in var is kept as-is, even if the prefix changes.
?X:
?MAKE:Prefixit: prefix oldprefix
?MAKE: -pick add $@ %<
?LINT:define prefixit
?S:prefixit:
?S: This shell variable is used internally by Configure to reset
?S: the leading installation prefix correctly when it is changed.
?S:  set dflt var [dir]
?S:  eval $prefixit
?S: That will set $dflt to $var or $prefix/dir depending on the
?S: value of $var and $oldprefix.
?S:.
?V:prefixit
?T:tp
: set the prefixit variable, to compute a suitable default value
prefixit='case "$3" in
""|none)
 case "$oldprefix" in
 "") eval "$1=\"\$$2\"";;
 *)
  case "$3" in
  "") eval "$1=";;
  none)
   eval "tp=\"\$$2\"";
   case
```

```
 "$tp" in
   ""|" "|none) eval "$1=\"\$$2\"";;
   *) eval "$1=";;
   esac;;
  esac;;
 esac;;
*)
 eval "tp=\"$oldprefix-\$$2-\""; eval "tp=\"$tp\"";
 case "$tp" in
 --|/*--|\~*--) eval "$1=\"$prefix/$3\"";;
 /*-$oldprefix/*|\~*-$oldprefix/*)
  eval "$1=\`echo \$$2 | sed \"s,^$oldprefix,$prefix,\"\`";;
 *) eval "$1=\"\$$2\"";;
 esac;;
esac'
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Prefixit.U
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```
?RCS: $Id: d_strdup.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strdup.U,v $
?RCS: Revision 3.0.1.1  1993/12/15  08:21:41  ram
?RCS: patch15: created
?RCS:
?MAKE:d_strdup: Inlibc
?MAKE: -pick add $@ %<
?S:d_strdup:
?S: This variable conditionally defines HAS_STRDUP if strdup() is
?S: available to duplicate strings in memory.
?S:.
?C:HAS_STRDUP:
?C: This symbol, if defined, indicates that the strdup routine is
?C: available to duplicate strings in memory. Otherwise, roll up
?C: your own...
?C:.
?H:#$d_strdup HAS_STRDUP  /**/
?H:.
```

```
?LINT:set
 d_strdup
: see if strdup exists
set strdup d_strdup
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strdup.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: alignbytes.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:02:28  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:25:20  ram
?RCS: patch23: avoid ALIGNBYTES, since it conflicts on NetBSD
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:23  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:alignbytes: Assert Myread Trylink cat i_inttypes i_limits i_math
?MAKE: -pick add $@ %<
?S:alignbytes:
?S: This variable holds the number of bytes required
 to align an
?S: arbitrary standard type. Usual values are 2, 4 and 8.
?S:.
?X: This used to be called ALIGNBYTES, but that conflicts with
?X: <machines/param.h> in NetBSD.
?C:MEM_ALIGNBYTES (ALIGNBYTES):
?C: This symbol contains the number of bytes required to align a
?C: double. Usual values are 2, 4 and 8.
?C:.
?H:#define MEM_ALIGNBYTES $alignbytes /**/
?H:.
?T:alignment result
: check for alignment requirements
```

```
echo " "
case "$alignbytes" in
")
 echo "Checking alignment constraints..." >&4

 for alignment in 8 4 2 1 16 32 error
 do
  $cat >try.c <<EOCP
#$i_inttypes I_INTTYPES
#ifdef I_INTTYPES
#include <inttypes.h>
#endif
#$i_limits I_LIMITS
#ifdef I_LIMITS
#include <limits.h>
#endif
#$i_math I_MATH
#ifdef I_MATH
#include <math.h>
#endif

union u {
 void *void_ptr;
 void (*func_ptr)(void);
 char c;
 short s;
 int i;
 long l;
 float f;
 double d;
#ifdef LLONG_MAX
 long long ll;
#else
#warning "LLONG_MAX undefined"
#endif
#if defined(HUGE_VALL)
 long double ld;
#else
#warning
 "HUGE_VALL undefined"
#endif
#ifdef UINT32_MAX
 uint32_t u32;
#else
#warning "UINT32_MAX undefined"
#endif
#ifdef UINT16_MAX
 uint16_t u16;
```

```
#else
#warning "UINT32_MAX undefined"
#endif
#ifdef UINT64_MAX
 uint64_t u64;
#else
#warning "UINT64_MAX undefined"
#endif
#ifdef UINTMAX_MAX
 uintmax_t m;
#else
#warning "UINTMAX_MAX undefined"
#endif
#ifdef UINTPTR_MAX
 uintptr_t up;
#else
#warning "UINTPTR_MAX undefined"
#endif
};

struct s {
 char a;
 union u b;
};

#include "static_assert.h"

int
main(void)
{
 STATIC_ASSERT($alignment == ((sizeof (struct s) - (sizeof (union u)))));
 return 0;
}
EOCP

  result="
  set result
  eval $trylink
  case "$result" in
  "$define") break;;
  esac
 done

 case "$alignment" in
 error) dflt='8'
  echo "(I can't seem to compile the test program...)" >&4
  ;;
 *) dflt=$alignment
```

```
  ;;
 esac
;;
*) dflt="$alignbytes"
 ;;
esac
rp="What is the maximum alignment in bytes required for a standard type?"
. ./myread
alignbytes="$ans"
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/alignbytes.U
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```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_class: Inlibc
?MAKE: -pick add $@ %<
?S:d_class:
?S: This variable conditionally defines the HAS_CLASS symbol, which
?S: indicates to the C program that the class() routine is available.
?S:.
?C:HAS_CLASS:
?C: This symbol, if defined, indicates that the class routine is
?C: available to classify doubles.  Available for example in AIX.
?C: The returned values are defined in <float.h> and are:
?C:
?C: FP_PLUS_NORM Positive normalized, nonzero
?C: FP_MINUS_NORM Negative normalized, nonzero
?C: FP_PLUS_DENORM Positive denormalized, nonzero
?C: FP_MINUS_DENORM Negative denormalized, nonzero
?C: FP_PLUS_ZERO +0.0
?C: FP_MINUS_ZERO -0.0
?C: FP_PLUS_INF +INF
?C: FP_MINUS_INF -INF
?C: FP_NANS  Signaling
 Not a Number (NaNS)
?C: FP_NANQ  Quiet Not a Number (NaNQ)
?C:.
?H:#$d_class HAS_CLASS  /**/
?H:.
?LINT:set d_class
```

```
: see if class exists
set class d_class
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_class.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Configdir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Configdir.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  14:58:36  ram
?RCS: patch61: have README explicitly mention the package name
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:49  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:Configdir: package
?MAKE: -pick add $@ %<
: create .config dir to save info across Configure sessions
test -d ../.config || mkdir ../.config
cat >../.config/README <<EOF
This directory created by Configure to save
 information that should
persist across sessions for $package.

You may safely delete it if you wish.
EOF
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Configdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_semctl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_semctl.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_semctl: Inlibc
?MAKE: -pick add $@ %<
?S:d_semctl:
?S: This variable conditionally defines the HAS_SEMCTL symbol, which
?S: indicates to the C program that the semctl() routine is available.
?S:.
?C:HAS_SEMCTL:
?C: This symbol, if defined, indicates that the semctl() routine is
?C: available to perform semaphore control operations.
?C:.
?H:#$d_semctl
 HAS_SEMCTL /**/
?H:.
?LINT:set d_semctl
: see if semctl exists
set semctl d_semctl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_semctl.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strftime.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:36  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strftime: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_strftime:
?S: This variable conditionally defines HAS_STRFTIME if strftime() is
?S: available to format locale-specific times.
?S:.
?C:HAS_STRFTIME:
?C: This symbol, if defined, indicates that the strftime routine is
?C: available to format locale-specific times.
?C:.
?H:#$d_strftime HAS_STRFTIME /**/
?H:.
?LINT:set d_strftime
: see
 if strftime exists
set strftime d_strftime
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strftime.U
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```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_sockatmark: Inlibc
?MAKE: -pick add $@ %<
?S:d_sockatmark:
?S: This variable conditionally defines the HAS_SOCKATMARK symbol, which
?S: indicates to the C program that the sockatmark() routine is available.
?S:.
?C:HAS_SOCKATMARK:
?C: This symbol, if defined, indicates that the sockatmark routine is
?C: available to test whether a socket is at the out-of-band mark.
?C:.
?H:#$d_sockatmark HAS_SOCKATMARK  /**/
?H:.
?LINT:set d_sockatmark
: see if sockatmark exists
set sockatmark d_sockatmark
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sockatmark.U

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```
?RCS: $Id: d_setnent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_setnent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setnent: Inlibc
?MAKE: -pick add $@ %<
?S:d_setnent:
?S: This variable conditionally defines HAS_SETNETENT if setnetent() is
?S: available.
?S:.
?C:HAS_SETNETENT:
?C: This symbol, if defined, indicates that the setnetent() routine is
?C: available.
?C:.
?H:#$d_setnent HAS_SETNETENT  /**/
?H:.
?LINT:set d_setnent
: see if setnetent exists
set
 setnetent d_setnent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_setnent.U
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```
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?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: ssizetype.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:24:21  ram
?RCS: patch61: integrated perl5 concerns for mis-configured sfio
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:30:28  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:33:06  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:ssizetype: Myread Typedef
 sizetype cat rm \
 +cc +optimize +ccflags +ldflags +libs _o
?MAKE: -pick add $@ %<
?S:ssizetype:
?S: This variable defines ssizetype to be something like ssize_t,
?S: long or int.  It is used by functions that return a count
?S: of bytes or an error condition.  It must be a signed type.
?S: We will pick a type such that sizeof(SSize_t) == sizeof(Size_t).
?S:.
?C:SSize_t:
?C: This symbol holds the type used by functions that return
?C: a count of bytes or an error condition.  It must be a signed type.
?C: It is usually ssize_t, but may be long or int, etc.
?C: It may be necessary to include <sys/types.h> or <unistd.h>
?C: to get any typedef'ed information.
?C: We will pick a type such that sizeof(SSize_t) == sizeof(Size_t).
?C:.
?H:#define SSize_t $ssizetype  /* signed count of bytes */
?H:.
?F:!ssize.out !ssize
: see what type is used for signed size_t
set ssize_t ssizetype int stdio.h sys/types.h
eval $typedef
dflt="$ssizetype"
?X: Now check out whether sizeof(SSize_t) == sizeof(Size_t)
$cat
 > ssize.c <<EOM
#include <stdio.h>
#include <sys/types.h>
#define Size_t $sizetype
#define SSize_t $dflt
int main()
{
```

```
 if (sizeof(Size_t) == sizeof(SSize_t))
  printf("$dflt\n");
 else if (sizeof(Size_t) == sizeof(int))
  printf("int\n");
 else
  printf("long\n");
 fflush(stdout);
 exit(0);
}
EOM
echo " "
?X: If $libs contains -lsfio, and sfio is mis-configured, then it
?X: sometimes (apparently) runs and exits with a 0 status, but with no
?X: output!.  Thus we check with test -s whether we actually got any
?X: output.  I think it has to do with sfio's use of _exit vs. exit,
?X: but I don't know for sure.  --Andy Dougherty  1/27/97.
if $cc $optimize $ccflags $ldflags -o ssize ssize.c $libs > /dev/null 2>&1  &&
  ./ssize > ssize.out 2>/dev/null && test -s ssize.out ; then
 ssizetype=`$cat ssize.out`
 echo "I'll be using $ssizetype for functions returning a byte count." >&4
else
 $cat >&4 <<EOM
Help! I can't compile and run the ssize_t test program: please enlighten me!
(This
 is probably a misconfiguration in your system or libraries, and
you really ought to fix it.  Still, I'll try anyway.)

I need a type that is the same size as $sizetype, but is guaranteed to
be signed.  Common values are ssize_t, int and long.

EOM
 rp="What signed type is the same size as $sizetype?"
 . ./myread
 ssizetype="$ans"
fi
$rm -f ssize ssize$_o ssize.*
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/ssizetype.U
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```
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
?MAKE:d_atolf: Inlibc
?MAKE: -pick add $@ %<
?S:d_atolf:
?S: This variable conditionally defines the HAS_ATOLF symbol, which
?S: indicates to the C program that the atolf() routine is available.
?S:.
?C:HAS_ATOLF:
?C: This symbol, if defined, indicates that the atolf routine is
?C: available to convert strings into long doubles.
?C:.
?H:#$d_atolf HAS_ATOLF  /**/
?H:.
?LINT:set d_atolf
: see if atolf exists
set atolf d_atolf
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/atolf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpwnam_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getpwnam_r getpwnam_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_pwd extern_C
?MAKE: -pick add $@ %<
?S:d_getpwnam_r:
?S: This variable conditionally defines the HAS_GETPWNAM_R symbol,
?S: which indicates to the C program that the getpwnam_r()
?S: routine is available.
?S:.
?S:getpwnam_r_proto:
?S: This variable encodes the prototype of getpwnam_r.
?S: It is zero if d_getpwnam_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getpwnam_r
?S: is defined.
?S:.
?C:HAS_GETPWNAM_R:
?C: This symbol, if defined, indicates that the getpwnam_r routine
?C: is available to
```

```
 getpwnam re-entrantly.
?C:.
?C:GETPWNAM_R_PROTO:
?C: This symbol encodes the prototype of getpwnam_r.
?C: It is zero if d_getpwnam_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getpwnam_r
?C: is defined.
?C:.
?H:#$d_getpwnam_r HAS_GETPWNAM_R /**/
?H:#define GETPWNAM_R_PROTO $getpwnam_r_proto /**/
?H:.
?T:try hdrs d_getpwnam_r_proto
: see if getpwnam_r exists
set getpwnam_r d_getpwnam_r
eval $inlibc
case "$d_getpwnam_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_pwd pwd.h"
 case "$d_getpwnam_r_proto:$usethreads" in
 ":define") d_getpwnam_r_proto=define
  set d_getpwnam_r_proto getpwnam_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getpwnam_r_proto" in
 define)
 case "$getpwnam_r_proto" in
 "|0) try='int getpwnam_r(const char*, struct passwd*, char*, size_t, struct passwd**);'
 ./protochk "$extern_C $try" $hdrs && getpwnam_r_proto=I_CSBWR ;;
 esac
 case "$getpwnam_r_proto" in
 "|0) try='int getpwnam_r(const char*, struct passwd*,
 char*, int, struct passwd**);'
 ./protochk "$extern_C $try" $hdrs && getpwnam_r_proto=I_CSBIR ;;
 esac
 case "$getpwnam_r_proto" in
 "|0) try='struct passwd* getpwnam_r(const char*, struct passwd*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getpwnam_r_proto=S_CSBI ;;
 esac
 case "$getpwnam_r_proto" in
 "|0) try='int getpwnam_r(const char*, struct passwd*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getpwnam_r_proto=I_CSBI ;;
 esac
 case "$getpwnam_r_proto" in
 "|0) d_getpwnam_r=undef
  getpwnam_r_proto=0
  echo "Disabling getpwnam_r, cannot determine prototype." >&4 ;;
 * ) case "$getpwnam_r_proto" in
```

```
  REENTRANT_PROTO*) ;;
  *) getpwnam_r_proto="REENTRANT_PROTO_$getpwnam_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getpwnam_r has no prototype, not using it." >&4 ;;
  esac
  d_getpwnam_r=undef
  getpwnam_r_proto=0
  ;;
 esac
 ;;
*) getpwnam_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getpwnam_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_bcmp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_bcmp.U,v $
?RCS: Revision 3.0.1.2  1993/10/16  13:47:52  ram
?RCS: patch12: added magic support for bcmp()
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:00:44  ram
?RCS: patch10: now only defines HAS_BCMP, no macro remap on memcmp (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_bcmp: Inlibc
?MAKE: -pick add $@ %<
?S:d_bcmp:
?S: This variable conditionally defines the HAS_BCMP symbol
```

```
 if
?S: the bcmp() routine is available to compare strings.
?S:.
?C:HAS_BCMP:
?C: This symbol is defined if the bcmp() routine is available to
?C: compare blocks of memory.
?C:.
?H:#$d_bcmp HAS_BCMP /**/
?H:.
?M:bcmp: HAS_BCMP
?M:#ifndef HAS_BCMP
?M:#ifndef bcmp
?M:#define bcmp(s,d,l) memcmp((s),(d),(l))
?M:#endif
?M:#endif
?M:.
?LINT:set d_bcmp
: see if bcmp exists
set bcmp d_bcmp
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_bcmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_poll.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_poll: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_poll:
?S: This variable conditionally defines the I_POLL symbol, and indicates
?S: whether a C program should include <poll.h>.
?S:.
?C:I_POLL:
?C: This symbol, if defined, indicates that <poll.h> exists and
?C: should be included. (see also HAS_POLL)
?C:.
?H:#$i_poll I_POLL  /**/
?H:.
?LINT:set i_poll
: see if this is a poll.h system
set poll.h i_poll
```

```
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_poll.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethostbyname_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_gethostbyname_r gethostbyname_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_gethostbyname_r:
?S: This variable conditionally defines the HAS_GETHOSTBYNAME_R symbol,
?S: which indicates to the C program that the gethostbyname_r()
?S: routine is available.
?S:.
?S:gethostbyname_r_proto:
?S: This variable encodes the prototype of gethostbyname_r.
?S: It is zero if d_gethostbyname_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gethostbyname_r
?S: is defined.
?S:.
?C:HAS_GETHOSTBYNAME_R:
?C: This symbol, if defined, indicates
 that the gethostbyname_r routine
?C: is available to gethostbyname re-entrantly.
?C:.
?C:GETHOSTBYNAME_R_PROTO:
?C: This symbol encodes the prototype of gethostbyname_r.
?C: It is zero if d_gethostbyname_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_gethostbyname_r
?C: is defined.
?C:.
?H:#$d_gethostbyname_r HAS_GETHOSTBYNAME_R /**/
?H:#define GETHOSTBYNAME_R_PROTO $gethostbyname_r_proto /**/
?H:.
?T:try hdrs d_gethostbyname_r_proto
: see if gethostbyname_r exists
set gethostbyname_r d_gethostbyname_r
eval $inlibc
case "$d_gethostbyname_r" in
```

```
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_gethostbyname_r_proto:$usethreads" in
 ":define") d_gethostbyname_r_proto=define
  set d_gethostbyname_r_proto gethostbyname_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_gethostbyname_r_proto" in
 define)
 case "$gethostbyname_r_proto" in
 "|0) try='int gethostbyname_r(const char*, struct hostent*, char*, size_t, struct
 hostent**, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyname_r_proto=I_CSBWRE ;;
 esac
 case "$gethostbyname_r_proto" in
 "|0) try='struct hostent* gethostbyname_r(const char*, struct hostent*, char*, int, int*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyname_r_proto=S_CSBIE ;;
 esac
 case "$gethostbyname_r_proto" in
 "|0) try='int gethostbyname_r(const char*, struct hostent*, struct hostent_data*);'
 ./protochk "$extern_C $try" $hdrs && gethostbyname_r_proto=I_CSD ;;
 esac
 case "$gethostbyname_r_proto" in
 "|0) d_gethostbyname_r=undef
  gethostbyname_r_proto=0
  echo "Disabling gethostbyname_r, cannot determine prototype." >&4 ;;
 * ) case "$gethostbyname_r_proto" in
  REENTRANT_PROTO*) ;;
  *) gethostbyname_r_proto="REENTRANT_PROTO_$gethostbyname_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "gethostbyname_r has no prototype, not using it." >&4 ;;
  esac
  d_gethostbyname_r=undef
  gethostbyname_r_proto=0
  ;;
 esac
 ;;
*) gethostbyname_r_proto=0
 ;;
esac
```

Found

in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_gethostbyname_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_dbl_dig.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_dbl_dig.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:28  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_dbl_dig: Myread contains cat rm Setvar i_limits i_float \
 cppstdin cppflags cppminus
?MAKE: -pick add $@ %<
?S:d_dbl_dig:
?S: This variable conditionally defines d_dbl_dig if this system's
?S: header files provide DBL_DIG, which is the number of significant
?S: digits
 in a double precision number.
?S:.
?C:HAS_DBL_DIG:
?C: This symbol, if defined, indicates that this system's <float.h>
?C: or <limits.h> defines the symbol DBL_DIG, which is the number
?C: of significant digits in a double precision number.  If this
?C: symbol is not defined, a guess of 15 is usually pretty good.
?C:.
?H:#$d_dbl_dig HAS_DBL_DIG  /**/
?H:.
?F:!dbl_dig.c
?LINT:set d_dbl_dig
: See if number of significant digits in a double precision number is known
echo " "
$cat >dbl_dig.c <<EOM
#$i_limits I_LIMITS
#$i_float I_FLOAT
#ifdef I_LIMITS
#include <limits.h>
#endif
```

```
#ifdef I_FLOAT
#include <float.h>
#endif
#ifdef DBL_DIG
printf("Contains DBL_DIG");
#endif
EOM
$cppstdin $cppflags $cppminus < dbl_dig.c >dbl_dig.E 2>/dev/null
if $contains 'DBL_DIG' dbl_dig.E >/dev/null 2>&1; then
 echo "DBL_DIG found." >&4
 val="$define"
else
 echo "DBL_DIG NOT found." >&4
 val="$undef"
fi
$rm -f dbl_dig.?
set d_dbl_dig
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_dbl_dig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libflex.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libflex.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:57:48  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:07:02  ram
?RCS: patch23: now uses full library path instead of -l notation
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:13:25  ram
?RCS: patch16: un-obsoleted this unit to allow smooth lex/flex compilations
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:59  ram
?RCS: Baseline for dist 3.0 netwide
 release.
?RCS:
```

```
?MAKE:libflex: Loc lex libpth _a
?MAKE: -pick add $@ %<
?S:libflex:
?S: This variable contains the argument to pass to the loader in order
?S: to get the flex/lex library routines.  If there is no flex or flex
?S: library, it is null.
?S:.
?T:xxx
: see if we should include -lfl
echo " "
case "$lex" in
*flex)
 xxx=`./loc libfl$_a x $libpth`
 case "$xxx" in
 x)
  echo "No flex library found." >&4
  libflex=''
  ;;
 *)
  echo "flex library found in $xxx." >&4
  libflex="$xxx"
  ;;
 esac
 ;;
*lex)
 xxx=`./loc libl$_a x $libpth`
 case "$xxx" in
 x)
  echo "No lex library found." >&4
  libflex=''
  ;;
 *)
  echo "lex library found in $xxx." >&4
  libflex="$xxx"
  ;;
 esac
 ;;
*)
echo "You don't seem to have lex or flex, so I won't look for libraries." >&4
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/libflex.U
No license file was found, but licenses were detected in source scan.

?RCS: Id

```
?RCS:
?RCS: Copyright (c) 2001, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_sigprocmask: Inlibc
?MAKE: -pick add $@ %<
?S:d_sigprocmask:
?S: This variable conditionally defines HAS_SIGPROCMASK
?S: if sigprocmask() is available to examine or change the signal mask
?S: of the calling process.
?S:.
?C:HAS_SIGPROCMASK:
?C: This symbol, if defined, indicates that the sigprocmask
?C: system call is available to examine or change the signal mask
?C: of the calling process.
?C:.
?H:#$d_sigprocmask HAS_SIGPROCMASK  /**/
?H:.
?LINT:set d_sigprocmask
: see if sigprocmask exists
set sigprocmask d_sigprocmask
eval
 $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sigprocmask.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_socks.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_socks: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_socks:
?S: This variable conditionally defines the I_SOCKS symbol, and indicates
?S: whether a C program should include <socks.h>.
?S:.
?C:I_SOCKS:
```

```
?C: This symbol, if defined, indicates that <socks.h> exists and
?C: should be included.
?C:.
?H:#$i_socks I_SOCKS  /**/
?H:.
?LINT:set i_socks
: see if this is a socks.h system
set socks.h i_socks
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_socks.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_vfork.U,v 3.0.1.6 1994/08/29 16:18:21 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_vfork.U,v $
?RCS: Revision 3.0.1.6  1994/08/29  16:18:21  ram
?RCS: patch32: set default to 'y' the first time
?RCS:
?RCS: Revision 3.0.1.5  1994/06/20  06:59:14  ram
?RCS: patch30: usevfork was not always properly set
?RCS:
?RCS: Revision 3.0.1.4  1994/05/13  15:20:56  ram
?RCS: patch27: modified to avoid spurious Whoa warnings (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/05/06  14:59:09  ram
?RCS: patch23: now explicitly ask whether vfork() should be used
 (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1993/10/16  13:49:39  ram
?RCS: patch12: added magic for vfork()
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:06:57  ram
?RCS: patch10: removed automatic remapping of vfork on fork (WAD)
?RCS: patch10: added compatibility code for older config.sh (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:55  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?MAKE:d_vfork usevfork d_pseudofork: Inlibc Myread Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_vfork:
?S: This variable conditionally defines the HAS_VFORK symbol, which
?S: indicates the vfork() routine is available.
?S:.
?S:usevfork:
?S: This variable is set to true when the user accepts to use vfork.
?S: It is set to false when no vfork is available or when the user
?S: explicitly requests not to use vfork.
?S:.
?S:d_pseudofork:
?S: This variable conditionally defines the HAS_PSEUDOFORK symbol,
?S: which indicates that an emulation of the fork routine is available.
?S:.
?C:HAS_VFORK (VFORK):
?C: This
 symbol, if defined, indicates that vfork() exists.
?C:.
?H:#$d_vfork HAS_VFORK /**/
?H:.
?C:HAS_PSEUDOFORK:
?C: This symbol, if defined, indicates that an emulation of the
?C: fork routine is available.
?C:.
?H:#$d_pseudofork HAS_PSEUDOFORK /**/
?H:.
?M:vfork: HAS_VFORK
?M:#ifndef HAS_VFORK
?M:#define vfork fork
?M:#endif
?M:.
?T:d_hvfork
: backward compatibility for d_hvfork
if test X$d_hvfork != X; then
 d_vfork="$d_hvfork"
 d_hvfork="
fi
?X:==========================
: see if there is a vfork
val="
set vfork val
eval $inlibc

d_pseudofork=$undef

: Ok, but do we want to use it. vfork is reportedly unreliable in
```

```
: perl on Solaris 2.x, and probably elsewhere.
case "$val" in
$define)
 echo " "
 case "$usevfork" in
 false) dflt='n';;
 *) dflt='y';;
 esac
 cat <<'EOM'

Perl can only use a vfork() that doesn't suffer from strict
restrictions on calling functions or modifying global data in
the child.  For example, glibc-2.1 contains such a vfork()
that is unsuitable.  If your system
 provides a proper fork()
call, chances are that you do NOT want perl to use vfork().

EOM
 rp="Do you still want to use vfork()?"
 . ./myread
 case "$ans" in
 y|Y) ;;
 *)
  echo "Ok, we won't use vfork()."
  val="$undef"
  ;;
 esac
 ;;
esac
?X:
?X: Only set it when final value is known to avoid spurious Whoa's
?X: Then set usevfork accordingly to the current value, for next run
?X:
set d_vfork
eval $setvar
case "$d_vfork" in
$define) usevfork='true';;
*) usevfork='false';;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_vfork.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_random_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_random_r random_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_stdlib extern_C
?MAKE: -pick add $@ %<
?S:d_random_r:
?S: This variable conditionally defines the HAS_RANDOM_R symbol,
?S: which indicates to the C program that the random_r()
?S: routine is available.
?S:.
?S:random_r_proto:
?S: This variable encodes the prototype of random_r.
?S: It is zero if d_random_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_random_r
?S: is defined.
?S:.
?C:HAS_RANDOM_R:
?C: This symbol, if defined, indicates that the random_r routine
?C: is available to random re-entrantly.
?C:.
?C:RANDOM_R_PROTO:
?C: This
 symbol encodes the prototype of random_r.
?C: It is zero if d_random_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_random_r
?C: is defined.
?C:.
?H:#$d_random_r HAS_RANDOM_R /**/
?H:#define RANDOM_R_PROTO $random_r_proto /**/
?H:.
?T:try hdrs d_random_r_proto
: see if random_r exists
set random_r d_random_r
eval $inlibc
case "$d_random_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_stdlib stdlib.h"
 case "$d_random_r_proto:$usethreads" in
 ":define") d_random_r_proto=define
  set d_random_r_proto random_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_random_r_proto" in
 define)
```

```
 case "$random_r_proto" in
 "|0) try='int random_r(int*, struct random_data*);'
 ./protochk "$extern_C $try" $hdrs && random_r_proto=I_iS ;;
 esac
 case "$random_r_proto" in
 "|0) try='int random_r(long*, struct random_data*);'
 ./protochk "$extern_C $try" $hdrs && random_r_proto=I_lS ;;
 esac
 case "$random_r_proto" in
 "|0)
 try='int random_r(struct random_data*, int32_t*);'
 ./protochk "$extern_C $try" $hdrs && random_r_proto=I_St ;;
 esac
 case "$random_r_proto" in
 "|0) d_random_r=undef
  random_r_proto=0
  echo "Disabling random_r, cannot determine prototype." >&4 ;;
 * ) case "$random_r_proto" in
  REENTRANT_PROTO*) ;;
  *) random_r_proto="REENTRANT_PROTO_$random_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "random_r has no prototype, not using it." >&4 ;;
  esac
  d_random_r=undef
  random_r_proto=0
  ;;
 esac
 ;;
*) random_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_random_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getpgrp.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:34:28  ram
?RCS: patch61: new USE_BSD_GETPGRP to detect the getpgrp() flavour
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getpgrp d_bsdgetpgrp: Guess Inlibc Setvar cat rm \
 +cc +ccflags +ldflags +libs i_unistd
?MAKE: -pick add $@ %<
?S:d_getpgrp:
?S: This variable conditionally defines HAS_GETPGRP if getpgrp() is
?S: available to get the current process group.
?S:.
?S:d_bsdgetpgrp:
?S: This
 variable conditionally defines USE_BSD_GETPGRP if
?S: getpgrp needs one arguments whereas USG one needs none.
?S:.
?C:HAS_GETPGRP (GETPGRP):
?C: This symbol, if defined, indicates that the getpgrp routine is
?C: available to get the current process group.
?C:.
?C:USE_BSD_GETPGRP:
?C: This symbol, if defined, indicates that getpgrp needs one
?C: arguments whereas USG one needs none.
?C:.
?H:#$d_getpgrp HAS_GETPGRP  /**/
?H:#$d_bsdgetpgrp USE_BSD_GETPGRP /**/
?H:.
?F:!set !set.c
?T:xxx
?LINT:set d_getpgrp d_bsdgetpgrp
: see if getpgrp exists
set getpgrp d_getpgrp
eval $inlibc

@if USE_BSD_GETPGRP || d_bsdgetpgrp
case "$d_getpgrp" in
"$define")
 echo " "
 echo "Checking to see which flavor of getpgrp is in use..."
 $cat >set.c <<EOP
#$i_unistd I_UNISTD
#include <sys/types.h>
```

```
#ifdef I_UNISTD
#  include <unistd.h>
#endif
int main()
{
 if (getuid() == 0) {
  printf("(I see you are running Configure as super-user...)\n");
  setuid(1);
 }
#ifdef TRY_BSD_PGRP
 if (getpgrp(1) ==
 0)
  exit(0);
#else
 if (getpgrp() > 0)
  exit(0);
#endif
 exit(1);
}
EOP
 if $cc -DTRY_BSD_PGRP $ccflags $ldflags -o set set.c $libs >/dev/null 2>&1
  && ./set
 then
  echo "You have to use getpgrp(pid) instead of getpgrp()." >&4
  val="$define"
 elif $cc $ccflags $ldflags -o set set.c $libs >/dev/null 2>&1 && ./set; then
  echo "You have to use getpgrp() instead of getpgrp(pid)." >&4
  val="$undef"
 else
  echo "I can't seem to compile and run the test program."
  if ./usg; then
   xxx="a USG one, i.e. you use getpgrp()."
  else
   # SVR4 systems can appear rather BSD-ish.
   case "$i_unistd" in
   $undef)
    xxx="a BSD one, i.e. you use getpgrp(pid)."
    val="$define"
    ;;
   $define)
    xxx="probably a USG one, i.e. you use getpgrp()."
    val="$undef"
    ;;
   esac
  fi
  echo "Assuming your getpgrp is $xxx" >&4
 fi
 ;;
```

```
*) val="$undef";;
esac
set d_bsdgetpgrp
eval $setvar
$rm -f set set.c
@end
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getpgrp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_madvise: Inlibc
?MAKE: -pick add $@ %<
?S:d_madvise:
?S: This variable conditionally defines HAS_MADVISE if madvise() is
?S: available to map a file into memory.
?S:.
?C:HAS_MADVISE:
?C: This symbol, if defined, indicates that the madvise system call is
?C: available to map a file into memory.
?C:.
?H:#$d_madvise HAS_MADVISE  /**/
?H:.
?LINT:set d_madvise
: see if madvise exists
set madvise d_madvise
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_madvise.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endprotoent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_endprotoent_r endprotoent_r_proto: Inlibc Protochk Hasproto \
 i_systypes usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_endprotoent_r:
?S: This variable conditionally defines the HAS_ENDPROTOENT_R symbol,
?S: which indicates to the C program that the endprotoent_r()
?S: routine is available.
?S:.
?S:endprotoent_r_proto:
?S: This variable encodes the prototype of endprotoent_r.
?S: It is zero if d_endprotoent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endprotoent_r
?S: is defined.
?S:.
?C:HAS_ENDPROTOENT_R:
?C: This symbol, if defined, indicates that the endprotoent_r
 routine
?C: is available to endprotoent re-entrantly.
?C:.
?C:ENDPROTOENT_R_PROTO:
?C: This symbol encodes the prototype of endprotoent_r.
?C: It is zero if d_endprotoent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endprotoent_r
?C: is defined.
?C:.
?H:#$d_endprotoent_r HAS_ENDPROTOENT_R /**/
?H:#define ENDPROTOENT_R_PROTO $endprotoent_r_proto /**/
?H:.
?T:try hdrs d_endprotoent_r_proto
: see if endprotoent_r exists
set endprotoent_r d_endprotoent_r
eval $inlibc
case "$d_endprotoent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_endprotoent_r_proto:$usethreads" in
 ":define") d_endprotoent_r_proto=define
  set d_endprotoent_r_proto endprotoent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_endprotoent_r_proto" in
 define)
 case "$endprotoent_r_proto" in
```

```
"|0) try='int endprotoent_r(struct protoent_data*);'
./protochk "$extern_C $try" $hdrs && endprotoent_r_proto=I_D ;;
esac
case "$endprotoent_r_proto"
in
"|0) try='void endprotoent_r(struct protoent_data*);'
./protochk "$extern_C $try" $hdrs && endprotoent_r_proto=V_D ;;
esac
case "$endprotoent_r_proto" in
"|0) d_endprotoent_r=undef
 endprotoent_r_proto=0
 echo "Disabling endprotoent_r, cannot determine prototype." >&4 ;;
* ) case "$endprotoent_r_proto" in
 REENTRANT_PROTO*) ;;
 *) endprotoent_r_proto="REENTRANT_PROTO_$endprotoent_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "endprotoent_r has no prototype, not using it." >&4 ;;
 esac
 d_endprotoent_r=undef
 endprotoent_r_proto=0
 ;;
esac
;;
*) endprotoent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_endprotoent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sitebin.U,v $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sitebin.U,v $
?RCS:
```

```
?MAKE:sitebin sitebinexp installsitebin : Getfile Oldconfig \
 Setprefixvar siteprefix
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitebin=''
?S:sitebin:
?S: This variable holds the name of the directory in which the user wants
?S: to put add-on publicly executable files for the package in question.  It
?S: is most often a local directory such as /usr/local/bin. Programs using
?S: this variable must be prepared to deal with ~name substitution.
?S: The standard distribution will put nothing
 in this directory.
?S: After perl has been installed, users may install their own local
?S: executables in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitebinexp=''
?S:sitebinexp:
?S: This is the same as the sitebin variable, but is filename expanded at
?S: configuration time, for use in your makefiles.
?S:.
?D:installsitebin=''
?S:installsitebin:
?S: This variable is usually the same as sitebinexp, unless you are on
?S: a system running AFS, in which case they may differ slightly. You
?S: should always use this variable within your makefiles for portability.
?S:.
?LINT:change prefixvar
?LINT:set installsitebin
?LINT:set sitebin
?LINT:set sitebinexp
: determine where add-on public executables go
case "$sitebin" in
'') dflt=$siteprefix/bin ;;
*) dflt=$sitebin ;;
esac
fn=d~
rp='Pathname where the add-on public executables should be installed?'
. ./getfile
prefixvar=sitebin
. ./setprefixvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/sitebin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: bitpbyte.U,v 3.0.1.1 1994/10/29 16:02:54 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: bitpbyte.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:02:54  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:bitpbyte: cat rm Myread Compile run
?MAKE: -pick add $@ %<
?S:bitpbyte:
?S: This variable contains the value of the BITS_PER_BYTE symbol, which
?S: indicates to the C program how many bits there are in a byte.
?S:.
?C:BITS_PER_BYTE:
?C: This
 symbol contains the number of bits in a byte, so that the C
?C: preprocessor can make decisions based on it.
?C:.
?H:#define BITS_PER_BYTE $bitpbyte  /**/
?H:.
?F:!try
: check for length of byte
echo " "
case "$bitpbyte" in
")
 echo "Checking to see how many bits there are in a byte..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
?X: Standard C requires a macro CHAR_BIT in <limits.h>
#ifdef __STDC__
#include <limits.h>
#ifndef CHAR_BIT
#define CHAR_BIT 8
#endif
#ifndef BITSPERBYTE
#define BITSPERBYTE CHAR_BIT
#endif
#else
```

```
?X: On non standard C, try with <values.h>
#include <values.h>
#ifndef BITSPERBYTE
#define BITSPERBYTE 8
#endif
#endif
int main()
{
 printf("%d\n", BITSPERBYTE);
}
EOCP
 set try
 if eval $compile_ok; then
  dflt=`$run ./try`
 else
  dflt='8'
  echo "(I can't seem to compile the test program.  Guessing...)"
 fi
 ;;
*)
 dflt="$bitpbyte"
 ;;
esac
rp="What is the length of a byte (in bits)?"
. ./myread
bitpbyte="$ans"
$rm -f try.c try
```

Found in path(s):
*
 /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/bitpbyte.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorhtml3dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorhtml3dir.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
```

```
?MAKE:vendorhtml3dir vendorhtml3direxp installvendorhtml3dir: html3dir Getfile \
 Oldconfig Setprefixvar Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorhtml3dir:
?S: This variable contains the name of the directory for html
?S: library pages.  It may have a ~ on the front.
?S: The standard distribution will put nothing
 in this directory.
?S: Vendors who distribute perl may wish to place their own
?S: html pages for modules and extensions in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorhtml3direxp:
?S: This variable is the ~name expanded version of vendorhtml3dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorhtml3dir="
?S:installvendorhtml3dir:
?S: This variable is really the same as vendorhtml3direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorhtml3dir
: Set the vendorhtml3dir variables
case "$vendorprefix" in
") vendorhtml3dir="
 vendorhtml3direxp="
 ;;
*) : determine where vendor-supplied module html pages go.
 : There is no standard location, so try to copy the previously-selected
 : directory structure for the core html pages.
 : XXX Better default
 suggestions would be welcome.
 case "$vendorhtml3dir" in
 ") dflt=`echo "$html3dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
 *) dflt=$vendorhtml3dir ;;
 esac
 case "$dflt" in
 "|' ') dflt=none ;;
 esac
 fn=dn+~
 rp='Pathname for the vendor-supplied html pages?'
 . ./getfile
 vendorhtml3dir="$ans"
 vendorhtml3direxp="$ansexp"
```

```
 ;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorhtml3dir" = "X" && vendorhtml3dir=' '
prefixvar=vendorhtml3dir
. ./installprefix
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/vendorhtml3dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_faststdio: Setvar \
 d_stdstdio d_stdio_ptr_lval d_stdio_cnt_lval d_stdio_ptr_lval_sets_cnt
?MAKE: -pick add $@ %<
?S:d_faststdio:
?S: This variable conditionally defines the HAS_FAST_STDIO symbol,
?S: which indicates to the C program that the "fast stdio" is available
?S: to manipulate the stdio buffers directly.
?S:.
?C:HAS_FAST_STDIO:
?C: This symbol, if defined, indicates that the "fast stdio"
?C: is available to manipulate the stdio buffers directly.
?C:.
?H:#$d_faststdio HAS_FAST_STDIO  /**/
?H:.
?LINT:set d_faststdio
: see if fast_stdio exists
val="$undef"
case "$d_stdstdio:$d_stdio_ptr_lval" in
"$define:$define")
 case "$d_stdio_cnt_lval$d_stdio_ptr_lval_sets_cnt" in
 *$define*)
  echo "You
 seem to have 'fast stdio' to directly manipulate the stdio buffers." >& 4
  val="$define"
  ;;
 esac
 ;;
esac
set d_faststdio
```

```
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_faststdio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_charsprf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_charsprf.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:49  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_charsprf: cat rm +cc Setvar
?MAKE: -pick add $@ %<
?S:d_charsprf:
?S: This variable conditionally defines CHARSPRINTF if this system
?S: declares "char *sprintf()" in stdio.h.  The trend seems to be to
?S: declare it as "int sprintf()".
?S:.
?C:CHARSPRINTF:
?C: This symbol is defined if this system declares "char *sprintf()" in
?C: stdio.h.
  The trend seems to be to declare it as "int sprintf()".  It
?C: is up to the package author to declare sprintf correctly based on the
?C: symbol.
?C:.
?H:#$d_charsprf CHARSPRINTF  /**/
?H:.
?F:!ucbsprf.c !ucbsprf
?LINT:set d_charsprf
: see if sprintf is declared as int or pointer to char
echo " "
$cat >ucbsprf.c <<'EOF'
int main()
{
 int sprintf();
 char buf[10];
 exit((unsigned long)sprintf(buf,"%s","foo") > 10L);
}
```

```
EOF
if $cc -o ucbsprf ucbsprf.c >/dev/null 2>&1 && ./ucbsprf; then
 echo "Your sprintf() returns (int)." >&4
 val="$undef"
else
 echo "Your sprintf() returns (char*)." >&4
 val="$define"
fi
set d_charsprf
eval $setvar
$rm -f ucbsprf*
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_charsprf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_socklen_t: Inhdr cat rm_try Setvar Compile d_socket sizetype
?MAKE: -pick add $@ %<
?S:d_socklen_t:
?S: This symbol will be defined if the C compiler supports socklen_t.
?S:.
?C:HAS_SOCKLEN_T:
?C: This symbol will defined if the C compiler supports socklen_t.
?C: Usually the <sys/socket.h> needs to be included.
?C:.
?H:#$d_socklen_t     HAS_SOCKLEN_T              /**/
?H:.
?LINT:set d_socklen_t
: check for socklen_t
echo " "
echo "Checking to see if you have socklen_t..." >&4
$cat >try.c <<EOCP
#include <sys/types.h>
#$d_socket
 HAS_SOCKET
#ifdef HAS_SOCKET
#include <sys/socket.h>
```

```
#endif
int main() { socklen_t x = 16; }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have socklen_t."
else
 val="$undef"
 echo "You do not have socklen_t."
 case "$sizetype" in
 size_t) echo "(You do have size_t, that might work. Some people are happy with just an int.)" ;;
 esac
fi
$rm_try
set d_socklen_t
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_socklen_t.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_poll.U 15 2006-08-30 18:21:51Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_poll.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:38:17  ram
?RCS: patch61: mention that <poll.h> can be included if HAS_POLL defined
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:26:31  ram
?RCS: patch45: created
?RCS:
?MAKE:d_poll: Inlibc
?MAKE: -pick add $@ %<
?S:d_poll:
?S: This variable conditionally defines the HAS_POLL symbol, which
?S: indicates to the C program that the poll() routine is available
?S: to poll active file descriptors.
?S:.
?C:HAS_POLL
```

```
 :
?C: This symbol, if defined, indicates that the poll routine is
?C: available to poll active file descriptors.  Please check I_POLL and
?C: I_SYS_POLL to know which header should be included as well.
?C:.
?H:#$d_poll HAS_POLL  /**/
?H:.
?LINT:set d_poll
: see if poll exists
set poll d_poll
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_poll.U
No license file was found, but licenses were detected in source scan.

Perl5 Metaconfig Units

Copyright (c) 1996-1998, Andy Dougherty
Copyright (c) 1999-2011, H.Merijn Brand
All rights reserved.

These units are the ones used to build Configure and config_h.SH
in the Perl5 distribution.

metaconfig will first look in its standard locations (specified when you
installed dist). It will then recurse through the 'U' subdirectory
and find any additional "private" units. Private units override
standard ones supplied with metaconfig.

Files in this directory:

README
  This file.

Glossary.patch
  The standard dist units contain some strings that make pod2man
  complain. This patch silences those warnings. As new units are
  added and Configure is regenerated, this patch may need more and more
  'fuzz' to be applied. It should be freshly regenerated every once
  in a while. See also mkgloss.pl

ln-all.pl
  Re-generate the all/ folder

mkglossary
  A script

to regenerate Porting/Glossary. You have to manually
edit the top of the script to point the location of your metaconfig
units. It is called automatically by 'mksample'. See also mkgloss.pl

mkgloss.pl
A perl script that calls U/mkglossary from the perl source tree, sorts
the list of symbols, and applies the patch mentioned in Glossary.patch.
When called on its own, redirect the output to a temporary file, and
compare that file to Porting/Glossary before applying.

mksample
A script to regenerate Porting/config.sh and Porting/config.H.
It also calls mkglossary, if necessary.

Subdirectories:

The units and other related files have been broken up into the following
directories.

a_dvisory/
These are units that have to go first in the generated config_h.SH.
A word of explanation: Configure and config_h.SH are generated from 'Units'
(the *.U files). Files indicate dependencies (using make(1)), and
Configure is built to follow those dependencies.
However, config_h.SH
is simply built by putting all the units in alphabetical order and
extracting the relevant lines. (This could be fixed, I suppose, but
it wasn't trivial the one time I looked.)
The a_dvisory/ directory, then, is a place to put units that need
to be early in config_h.SH. (Most units are self-contained
and ought to be able to go anywhere. However, some things, like
byteorder, need to have the #defines from multiarch available.)

acl/
This is an old patch to begin to detect and use ACL (access
control list) file protection schemes.

all/
A folder that conveniently holds symbolic links to all the modules
that are used to build the current Configure and config_h.SH.

compline/
These are similar to the standard units, but I have modified them
to have a more uniform compile command line, usually using the
new Compile.U unit. (The ccflags.U unit is perl-specific since it
mentions -DDEBUGGING and
-DPOSIX_SOURCE, but that's the only place
it is perl-specific.)

dist_patches/
These are patches to dist that must be applied before it is built and installed. I have submitted these for inclusion in the regular dist distribution. They have already been applied to the ../dist-3.0at70b directory.

ebcdic/
These are units that had to be specially modified to work under either EBCDIC or ASCII.

installdirs/
These are units to handle perl's installation directories and related issues.

modified/
These are modified versions of the standard units. Also included in this directory are new units that are clearly derived from existing units. I have submitted these for inclusion in the regular dist distribution.

nullified/
These are null units that replace units in the standard distribution. Typically they are there because some part of the perl source accidentally uses a symbol that metaconfig thinks means we want the corresponding
unit.

perl/
These are specific to perl. Some are heavily derived from original dist units, and are marked as such. Others are original.

perl_patches/
These are patches to the perl source. This directory should ordinarily be empty, but there may have been drift between the standard version of perl and the one associated with these units.

protos/
These are units modified to use the new Hasproto.U or Protochk.U units to check for prototypes.

threads/
These are specific to threading perl.

typedefs/
These are standard units modified to use the modified Typedef.U unit to check for typedefs. (The modified Typdef.U includes a

function to avoid unnecessary prompts if the typdef being searched
for exists.)

Where appropriate, I submitted these units for inclusion into the
regular dist distribution. However, since dist is no longer actively
maintained, and the alternative is for *me* to actively maintain it,
the units just
sit here.

Copyright Information:

Unless otherwise indicated, the files contained in this
distribution are:

Copyright (c) 1996-1998, Andy Dougherty

The following licensing terms apply to all files contained in
this distribution:

You may distribute the files contained in this distribution
under the terms of either

a) the "Artistic License" which comes with Perl, or

b) the "Artistic License" which comes with dist, or

c) the GNU General Public License as published by the Free
Software Foundation; either version 1, or (at your option) any
later version (see the file "Copying" that comes with the
Perl distribution).

Which one to use is your choice.

The units in the "modified" directory have been derived from units
associated with the metaconfig program of Raphael Manfredi's "dist"
distribution. These units list Raphael Manfredi as the Copyright holder.
dist is distributed under a modified version of the Perl Artistic License.
Clause 7 of this modified
license as contained in dist-3.0-pl60 provides:

7. You may reuse parts of this Package in your own programs, provided
that you explicitly state where you got them from, in the source code
(and, left to your courtesy, in the documentation), duplicating
all the associated copyright notices and disclaimers. Besides
your changes, if any, must be clearly marked as such. Parts reused
that way will no longer fall under this license if, and only if,
the name of your program(s) have no immediate connection with the

name of the Package itself or its associated programs. You may then
apply whatever restrictions you wish on the reused parts or choose
to place them in the Public Domain--this will apply only within the
context of your package.

In accordance with this clause, the versions of these units
contained here are made available under the same terms as the
rest of the units.

If you have any questions about the use of these units or about
the differences
between these units and the standard versions, please
feel free to ask.

Andy Dougherty doughera@lafayette.edu
Dept. of Physics
Lafayette College
Easton, PA 18042-1782

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/README
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setpwent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_setpwent_r setpwent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_pwd extern_C
?MAKE: -pick add $@ %<
?S:d_setpwent_r:
?S: This variable conditionally defines the HAS_SETPWENT_R symbol,
?S: which indicates to the C program that the setpwent_r()
?S: routine is available.
?S:.
?S:setpwent_r_proto:
?S: This variable encodes the prototype of setpwent_r.
?S: It is zero if d_setpwent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setpwent_r
?S: is defined.
?S:.
?C:HAS_SETPWENT_R:
?C: This symbol, if defined, indicates that the setpwent_r routine
```

```
?C: is available to
 setpwent re-entrantly.
?C:.
?C:SETPWENT_R_PROTO:
?C: This symbol encodes the prototype of setpwent_r.
?C: It is zero if d_setpwent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_setpwent_r
?C: is defined.
?C:.
?H:#$d_setpwent_r HAS_SETPWENT_R /**/
?H:#define SETPWENT_R_PROTO $setpwent_r_proto /**/
?H:.
?T:try hdrs d_setpwent_r_proto
: see if setpwent_r exists
set setpwent_r d_setpwent_r
eval $inlibc
case "$d_setpwent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_pwd pwd.h"
 case "$d_setpwent_r_proto:$usethreads" in
 ":define") d_setpwent_r_proto=define
  set d_setpwent_r_proto setpwent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_setpwent_r_proto" in
 define)
 case "$setpwent_r_proto" in
 "|0) try='int setpwent_r(FILE**);'
 ./protochk "$extern_C $try" $hdrs && setpwent_r_proto=I_H ;;
 esac
 case "$setpwent_r_proto" in
 "|0) try='void setpwent_r(FILE**);'
 ./protochk "$extern_C $try" $hdrs && setpwent_r_proto=V_H ;;
 esac
 case "$setpwent_r_proto"
 in
 "|0) d_setpwent_r=undef
  setpwent_r_proto=0
  echo "Disabling setpwent_r, cannot determine prototype." >&4 ;;
 * ) case "$setpwent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) setpwent_r_proto="REENTRANT_PROTO_$setpwent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
```

```
  define) echo "setpwent_r has no prototype, not using it." >&4 ;;
  esac
  d_setpwent_r=undef
  setpwent_r_proto=0
  ;;
 esac
 ;;
*) setpwent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_setpwent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pathconf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_pathconf.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:14:54  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_pathconf d_fpathconf: Inlibc
?MAKE: -pick add $@ %<
?S:d_pathconf:
?S: This variable conditionally defines the HAS_PATHCONF symbol, which
?S: indicates to the C program that the pathconf() routine is available
?S: to determine file-system related limits and options
 associated
?S: with a given filename.
?S:.
?S:d_fpathconf:
?S: This variable conditionally defines the HAS_FPATHCONF symbol, which
?S: indicates to the C program that the pathconf() routine is available
?S: to determine file-system related limits and options associated
?S: with a given open file descriptor.
?S:.
?C:HAS_PATHCONF:
```

```
?C: This symbol, if defined, indicates that pathconf() is available
?C: to determine file-system related limits and options associated
?C: with a given filename.
?C:.
?C:HAS_FPATHCONF:
?C: This symbol, if defined, indicates that pathconf() is available
?C: to determine file-system related limits and options associated
?C: with a given open file descriptor.
?C:.
?H:#$d_pathconf HAS_PATHCONF  /**/
?H:#$d_fpathconf HAS_FPATHCONF  /**/
?H:.
?LINT:set d_pathconf
?LINT:set d_fpathconf
: see if pathconf exists
set pathconf d_pathconf
eval $inlibc

@if d_fpathconf || HAS_FPATHCONF
: see if fpathconf exists
set fpathconf d_fpathconf
eval $inlibc

@end
```

Found in path(s):
*
/opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_pathconf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gnulibc.U,v 3.0.1.1 1997/02/28 15:34:33 ram Exp $
?RCS:
?RCS: Copyright (c) 1996,1998 Andy Dougherty
?RCS: Copyright (c) 1996, Sven Verdoolaege
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_gnulibc.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:34:33  ram
?RCS: patch61: created
?RCS:
?MAKE:d_gnulibc gnulibc_version: Myread Oldconfig Setvar rm_try \
```

```
 cat Compile run
?MAKE: -pick add $@ %<
?S:d_gnulibc:
?S: Defined if we're dealing with the GNU C Library.
?S:.
?S:gnulibc_version:
?S: This variable contains the version number of the GNU C library.
?S: It is
 usually something like '2.2.5'.  It is a plain " if this
?S: is not the GNU C library, or if the version is unknown.
?S:.
?C:HAS_GNULIBC:
?C: This symbol, if defined, indicates to the C program that
?C: the GNU C library is being used.  A better check is to use
?C: the __GLIBC__ and __GLIBC_MINOR__ symbols supplied with glibc.
?C:.
?H:#$d_gnulibc HAS_GNULIBC /**/
?H:?%<:#if defined(HAS_GNULIBC) && !defined(_GNU_SOURCE)
?H:?%<:#   define _GNU_SOURCE
?H:?%<:#endif
?H:.
?F:!glibc.ver !try
?LINT: set d_gnulibc
?X: gnulibc can be executed by calling __libc_main().
?X: Ulrich Drepper doesn't think any other libc does that,
?X: but we check if it says 'GNU C Library' to be sure.
?X:
?X: Alas, as of 3/1998 glibc 2.0.7 reportedly isn't going to
?X: have __libc_main() anymore. :-(.  Fortunately, all released
?X: versions of glibc 2.x.x _do_ have CPP variables.  For 2.0.6,
?X: they are:
?X: #define __GLIBC__  2
?X: #define__GLIBC_MINOR__ 0.
?X: (The '6' isn't available :-(.
?X: glibc2.1 will also
 have
?X:  extern const char * __gnu_get_libc_release(void);
?X:  extern const char * __gnu_get_libc_version(void);
?X: functions.   --thanks to Andreas Jaeger.   --AD  6/1998.
?X: Although the exact format isn't documented, __gnu_get_libc_version()
?X: returns a simple string '2.1.3' in glibc 2.1.3.
?X:
: Check if we are using the GNU C library
echo " "
echo "Checking for GNU C Library..." >&4
cat >try.c <<'EOCP'
/* Find out version of GNU C library.  __GLIBC__ and __GLIBC_MINOR__
  alone are insufficient to distinguish different versions, such as
```

```
  2.0.6 and 2.0.7.  The function gnu_get_libc_version() appeared in
  libc version 2.1.0.      A. Dougherty,  June 3, 2002.
*/
#include <stdio.h>
int main(void)
{
#ifdef __GLIBC__
#   ifdef __GLIBC_MINOR__
#       if __GLIBC__ >= 2 && __GLIBC_MINOR__ >= 1 && !defined(__cplusplus)
#           include <gnu/libc-version.h>
     printf("%s\n",  gnu_get_libc_version());
#       else
     printf("%d.%d\n",  __GLIBC__, __GLIBC_MINOR__);
#
   endif
#   else
 printf("%d\n",  __GLIBC__);
#   endif
   return 0;
#else
   return 1;
#endif
}
EOCP
set try
if eval $compile_ok && $run ./try > glibc.ver; then
 val="$define"
 gnulibc_version=`$cat glibc.ver`
 echo "You are using the GNU C Library version $gnulibc_version"
else
 val="$undef"
 gnulibc_version=''
 echo "You are not using the GNU C Library"
fi
$rm_try glibc.ver
set d_gnulibc
eval $setvar

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-
5.34.0/U/compline/d_gnulibc.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: i_regex.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Sidney C. Smith <scsmith@cbda9.apgea.army.mil>
?RCS:
?RCS: $Log: i_regex.U,v $
?RCS: Revision 3.0.1.1  1995/01/30  14:35:45  ram
?RCS: patch49: created
?RCS:
?RCS:
?MAKE:i_regex: Inhdr
?MAKE: -pick add $@ %<
?S:i_regex:
?S: This variable conditionally defines the I_REGEX symbol, which
?S: indicates to the C program that <regex.h> exists and should
?S: be included.
?S:.
?C:I_REGEX:
?C: This symbol, if defined, indicates that <regex.h> exists
 and should
?C: be included.
?C:.
?H:#$i_regex I_REGEX /**/
?H:.
?LINT:set i_regex
: see if regex is available
set regex.h i_regex
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_regex.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libpth.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libpth.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  16:08:49  ram
```

```
?RCS: patch61: new loclibpth variable
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:31:30  ram
?RCS: patch45: call ./mips instead of just mips (WED)
?RCS:
?RCS: Revision 3.0.1.4  1994/08/29  16:29:15  ram
?RCS: patch32: added /lib/pa1.1 for HP-UX specially tuned PA-RISC libs (ADO)
?RCS: patch32: fixed information message, making it clearer (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:03:54
  ram
?RCS: patch30: added /usr/shlib to glibpth for shared-only libraries
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:26:57  ram
?RCS: patch27: fixed a typo (libpth -> glibpth)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:07:53  ram
?RCS: patch23: now asks for library directories to be searched (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit initializes the path for C library lookup.
?X:
?MAKE:libpth glibpth xlibpth plibpth loclibpth incpth: \
 usrinc incpath test cat Myread Oldconfig sysroot osname \
 ccname echo cppstdin awk grep sed rm usecrosscompile
?MAKE: -pick add $@ %<
?S:libpth:
?S: This variable holds the general path (space-separated) used to find
?S: libraries. It is intended to be used by other units.
?S:.
?S:glibpth:
?S: This variable holds the general path (space-separated) used to
?S: find libraries.  It may contain directories that do not exist on
?S: this platform, libpth is the cleaned-up
 version.
?S:.
?S:xlibpth:
?S: This variable holds extra path (space-separated) used to find
?S: libraries on this platform, for example CPU-specific libraries
?S: (on multi-CPU platforms) may be listed here.
?S:.
?S:loclibpth:
?S: This variable holds the paths (space-separated) used to find local
?S: libraries.  It is prepended to libpth, and is intended to be easily
?S: set from the command line.
```

```
?S:.
?S:plibpth:
?S: Holds the private path used by Configure to find out the libraries.
?S: Its value is prepend to libpth. This variable takes care of special
?S: machines, like the mips.  Usually, it should be empty.
?S:.
?S:incpth:
?S: This variable must precede the normal include path to get the
?S: right one, as in "$incpath/usr/include" or "$incpath/usr/lib".
?S: Value can be "" or "/bsd43" on mips.
?S:.
?T: xxx dlist i j croak
?LINT:extern incpth
?LINT:change usrinc
?INIT:: change the next line if compiling for Xenix/286 on Xenix/386
?INIT:xlibpth='/usr/lib/386 /lib/386'
?INIT::
 Possible local library directories to search.
?INIT:loclibpth="/usr/local/lib /opt/local/lib /usr/gnu/lib"
?INIT:loclibpth="$loclibpth /opt/gnu/lib /usr/GNU/lib /opt/GNU/lib"
?INIT:
?INIT:: general looking path for locating libraries
?INIT:glibpth="/lib /usr/lib $xlibpth"
?INIT:glibpth="$glibpth /usr/ccs/lib /usr/ucblib /usr/local/lib"
?X: /shlib is for Digital Unix 4.0
?X: /usr/shlib is for OSF/1 systems.
?INIT:test -f /usr/shlib/libc.so && glibpth="/usr/shlib $glibpth"
?INIT:test -f /shlib/libc.so     && glibpth="/shlib $glibpth"
?INIT:test -d /usr/lib64         && glibpth="$glibpth /lib64 /usr/lib64 /usr/local/lib64"
?INIT:
?INIT:: Private path used by Configure to find libraries.  Its value
?INIT:: is prepended to libpth. This variable takes care of special
?INIT:: machines, like the mips.  Usually, it should be empty.
?INIT:plibpth=''
?INIT:
?X:cppfilter is later used in Findhdr.U, but we not want to expose it to config.h
?T:cppfilter
: Adjust cppfilter for path component separator
case
 "$osname" in
vos) cppfilter="tr '\\\>' '/' |" ;; # path component separator is >
os2) cppfilter="sed -e 's|\\\\\\\\|/|g' |" ;; # path component separator is \
*)   cppfilter='' ;;
esac

: Use gcc to determine libpth and incpth
# If using gcc or clang, we can get better values for libpth, incpth
# and usrinc directly from the compiler.
```

```
# Note that ccname for clang is also gcc.
case "$ccname" in
  gcc)
 realpath=`which realpath 2>/dev/null | sed 's/no realpath in.*//'`
 $echo 'extern int foo;' > try.c
 set X `$cppstdin -v try.c 2>&1 | $awk '/^#include </,/^End of search /'|$cppfilter $grep '/include'`
 shift
 inclinpth=""
 if $test $# -gt 0; then
     for i in $*; do
  case $realpath in
      */realpath) i=`$realpath $i` ;;
  esac
  incpth="$incpth $i"
  j="`$echo $i | $sed 's,/include[^/]*,/lib,'`"
  if $test -d $j; then
      inclibpth="$inclibpth $j"
  fi
     done
     incpth="`$echo $incpth | $sed 's/^ //'`"
     for xxx in $inclibpth $loclibpth $plibpth $glibpth; do
  if
 $test -d $xxx; then
      case $realpath in
   */realpath) xxx=`$realpath $xxx` ;;
      esac
      case " $libpth " in
      *" $xxx "*) ;;
      *) libpth="$libpth $xxx";;
      esac
  fi
     done
     libpth="`$echo $libpth | $sed 's/^ //'`"
 fi
 $rm -f try.c
 case "$usrinc" in
 ") for i in $incpth; do
  if $test -f $i/errno.h -a -f $i/stdio.h -a -f $i/time.h; then
      usrinc="$i"
      break
  fi
     done
     ;;
 esac

 case "$usecrosscompile" in
 $define|true|[yY]*)
     case "$incpth" in
```

```
  ") echo "Incpth not defined." >&4; croak=y ;;
  *)  echo "Using incpth '$incpth'." >&4 ;;
     esac
     case "$libpth" in
  ") echo "Libpth not defined." >&4; croak=y ;;
  *)  echo "Using libpth '$libpth'." >&4 ;;
     esac
     case "$usrinc" in
  ") echo "Usrinc not defined." >&4; croak=y ;;
  *)  echo "Using usrinc $usrinc." >&4 ;;
     esac
     case "$croak" in
  y)
  if test "X$sysroot" = X; then
      echo "Cannot continue, aborting." >&4; exit 1
  else
      echo "Cross-compiling
 using sysroot $sysroot, failing to guess inc/lib paths is not fatal" >&4
  fi
  ;;
     esac
     ;;
 esac
   ;;
esac

: Default value for incpth is just usrinc
case "$incpth" in
") incpth="$usrinc";;
esac

: Set private lib path
case "$plibpth" in
") if ./mips; then
?X: on mips, we DO NOT want /lib, and we want $incpath/usr/lib
 plibpth="$incpath/usr/lib $sysroot/usr/local/lib $sysroot/usr/ccs/lib"
   fi;;
esac
case "$libpth" in
' ') dlist=";;
") dlist="$loclibpth $plibpth $glibpth";;
*) dlist="$libpth";;
esac

: Now check and see which directories actually exist, avoiding duplicates
for xxx in $dlist
do
   if $test -d $xxx; then
```

```
  case " $libpth " in
  *" $xxx "*) ;;
  *) libpth="$libpth $xxx";;
  esac
   fi
done
$cat <<'EOM'

Some systems have incompatible or broken versions of libraries.  Among
the directories listed in the question below, please remove any you
know not to be holding relevant libraries, and add any that are needed.
Say "none" for none.

EOM

if test "X$sysroot"
 != X; then
   $cat <<EOM
You have set sysroot to $sysroot, please supply the directories excluding sysroot

EOM
fi

case "$libpth" in
") dflt='none';;
*)
?X: strip leading space
 set X $libpth
 shift
 dflt=${1+"$@"}
 ;;
esac
rp="Directories to use for library searches?"
. ./myread
case "$ans" in
none) libpth=' ';;
*) libpth="$ans";;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/libpth.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2005 H.Merijn Brand
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_clearenv: Inlibc
?MAKE: -pick add $@ %<
?S:d_clearenv:
?S: This variable conditionally defines the HAS_CLEARENV symbol, which
?S: indicates to the C program that the clearenv () routine is available.
?S:.
?C:HAS_CLEARENV:
?C: This symbol, if defined, indicates that the clearenv () routine is
?C: available for use.
?C:.
?H:#$d_clearenv HAS_CLEARENV  /**/
?H:.
?LINT:set d_clearenv
: see if clearenv exists
set clearenv d_clearenv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_clearenv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:usedefaultstrict: Setvar Myread
?MAKE: -pick add $@ %<
?LINT:set usedefaultstrict
?S:usedefaultstrict:
?S: This setting provides a mechanism for perl developers to enable
?S: strict by default. These defaults do not apply when perl is run
?S: via -e or -E.
?S:.
?C:USE_STRICT_BY_DEFAULT:
?C: This symbol, if defined, enables additional defaults.
?C: At this time it only enables implicit strict by default.
?C:.
?H:#$usedefaultstrict USE_STRICT_BY_DEFAULT /* use strict by default */
?H:.
: Ask about strict by default.
case "$usedefaultstrict" in
  $define|true|[Yy]*)
    dflt="y"
    ;;
  *)
```

```
    dflt="n"
    ;;
  esac

cat <<EOM

EXPERIMENTAL: Perl can now be built with strict on by default when not
invoked with -e or -E. This is a diagnostic tool
 for development.

Unless you are familiar with this feature, you should probably answer 'no'.

EOM

rp='Would you like to build perl with strict enabled by default?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*)   val="$undef"  ;;
esac
set usedefaultstrict
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/usedefaultstrict.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethbyad.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_gethbyaddr: Inlibc
?MAKE: -pick add $@ %<
?S:d_gethbyaddr:
?S: This variable conditionally defines the HAS_GETHOSTBYADDR symbol, which
?S: indicates to the C program that the gethostbyaddr() routine is available
?S: to look up hosts by their IP addresses.
?S:.
?C:HAS_GETHOSTBYADDR:
?C: This symbol, if defined, indicates that the gethostbyaddr() routine is
?C: available to look up hosts by their IP addresses.
?C:.
?H:#$d_gethbyaddr HAS_GETHOSTBYADDR  /**/
?H:.
```

```
?LINT:set d_gethbyaddr
: see if gethostbyaddr exists
set gethostbyaddr d_gethbyaddr
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_gethbyad.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sitearch.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:21:30  ram
?RCS: patch61: created
?RCS:
?MAKE:sitearch sitearchexp installsitearch: afs cat Getfile \
 Oldconfig Prefixit prefix test archname sitelib
?MAKE: -pick add $@ %<
?Y:TOP
?S:sitearch:
?S: This variable contains the eventual value of the SITEARCH symbol,
?S: which is the name of the private library for this package.  It may
?S: have a ~ on the front. It is up to the makefile to eventually create
?S: this
 directory while performing installation (with ~ substitution).
?S:.
?S:sitearchexp:
?S: This variable is the ~name expanded version of sitearch, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?S:installsitearch:
?S: This variable is really the same as sitearchexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?C:SITEARCH:
?C: This symbol contains the name of the private library for this package.
?C: The library is private in the sense that it needn't be in anyone's
```

```
?C: execution path, but it should be accessible by the world.  The program
?C: should be prepared to do ~ expansion.
?C: The standard distribution will put nothing in this directory.
?C: Individual sites may place their own extensions and modules in
?C: this directory.
?C:.
?C:SITEARCH_EXP:
?C: This symbol contains the ~name expanded version of SITEARCH, to be used
?C: in programs that are not prepared to deal
 with ~ expansion at run-time.
?C:.
?H:#define SITEARCH "$sitearch"  /**/
?H:#define SITEARCH_EXP "$sitearchexp"  /**/
?H:.
?T:xxx
: determine where site specific architecture-dependent libraries go.
xxx=`echo $sitelib/$archname | sed 's!^$prefix!!'`
: xxx is usually lib/site_perl/archname.
set sitearch sitearch none
eval $prefixit
case "$sitearch" in
") dflt="$sitelib/$archname" ;;
*) dflt="$sitearch" ;;
esac
$cat <<EOM

The installation process will also create a directory for
architecture-dependent site-specific extensions and modules.

EOM
fn=nd~+
rp='Pathname for the site-specific architecture-dependent library files?'
. ./getfile
if $test "X$sitearchexp" != "X$ansexp"; then
 installsitearch="
fi
sitearch="$ans"
sitearchexp="$ansexp"
if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
private files reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case
```

```
 "$installsitearch" in
 ") dflt=`echo $sitearchexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installsitearch";;
 esac
 fn=de~
 rp='Where will private files be installed?'
 . ./getfile
 installsitearch="$ans"
else
 installsitearch="$sitearchexp"
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/sitearch.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Init.U,v 3.0.1.1 1994/10/31 09:45:59 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Init.U,v $
?RCS: Revision 3.0.1.1  1994/10/31  09:45:59  ram
?RCS: patch44: removed Options from MAKE to prevent Init overrides
?RCS: patch44: option processing now done after Myinit thanks to new Begin.U
?RCS: patch44: moved "Beginning of configuration questions" to Begin.U
?RCS: patch44: moved signal trapping instruction to Begin.U as well
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file
 initializes certain default variables used by Configure.  They
?X: may be overridden or added to by definitions in Myinit.U.
?X:
?MAKE:Init eunicefix: Null
?MAKE: -pick add $@ %<
?MAKE: -pick weed $@ ./Init
?S:eunicefix:
?S: When running under Eunice this variable contains a command which will
?S: convert a shell script to the proper form of text file for it to be
```

```
?S: executable by the shell.  On other systems it is a no-op.
?S:.
?V:define undef smallmach:rmlist
?X:
?X: Throughout the units, one may make use of $define and $undef to reference
?X: a defined symbol or an undefined one. There is no need to add them in
?X: the dependency line since this unit makes them visible via ?V:, and
?X: everyone inherits from those symbols since by convention Init.U is the
?X: root dependency.
?X:
?LINT:extern DJGPP
?LINT:extern _exe
?LINT:change _exe
?LINT:extern is_os2
: Detect odd OSs
define='define'
undef='undef'
smallmach='pdp11 i8086 z8000 i80286 iAPX286'
rmlist=''

: We must find out about
 Eunice early
eunicefix=':'
if test -f /etc/unixtovms; then
 eunicefix=/etc/unixtovms
fi
if test -f /etc/unixtovms.exe; then
 eunicefix=/etc/unixtovms.exe
fi

: Set executable suffix now -- needed before hints available
if test -f "/libs/version.library"; then
: Amiga OS
   _exe=""
elif test -f "/system/gnu_library/bin/ar.pm"; then
: Stratus VOS
   _exe=".pm"
elif test -n "$DJGPP"; then
: DOS DJGPP
   _exe=".exe"
elif test -f /kern/cookiejar; then
: MiNT
   _exe=""
elif test -d c:/. -o -n "$is_os2" ; then
: OS/2 or cygwin
   _exe=".exe"
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Init.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_mktime.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_mktime.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:09:44  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_mktime: Inlibc
?MAKE: -pick add $@ %<
?S:d_mktime:
?S: This variable conditionally defines the HAS_MKTIME symbol, which
?S: indicates to the C program that the mktime() routine is available.
?S:.
?C:HAS_MKTIME :
?C: This symbol, if defined, indicates that the mktime routine
 is
?C: available.
?C:.
?H:#$d_mktime HAS_MKTIME  /**/
?H:.
?LINT:set d_mktime
: see if mktime exists
set mktime d_mktime
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_mktime.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2014-2014, Karl Williamson & H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_wcsxfrm: Compile cat rm_try run Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_wcsxfrm:
?S: This variable conditionally defines the HAS_WCSXFRM symbol if the
?S: wcsxfrm() routine is available and can be used to compare wide
?S: character strings.
?S:.
?C:HAS_WCSXFRM:
?C: This symbol, if defined, indicates that the wcsxfrm routine is
?C: available to tranform a wide character string for wcscmp().
?C:.
?H:#$d_wcsxfrm HAS_WCSXFRM /**/
?H:.
?F:!try
?LINT: set d_wcsxfrm
: look for wcsxfrm
echo " "
$cat >try.c <<'EOCP'
#include
 <errno.h>
#include <wchar.h>
int main ()
{
   wchar_t dst[4], *src = L" ";
   errno = 0;
   return (wcsxfrm (dst, src, 1) ? errno ? errno : 0 : 1);
   }
EOCP
set try
?X: if $cc $ccflags $ldflags -o try try.c $libs >/dev/null 2>&1 ; then
val="$undef"
if eval $compile; then
   `$run ./try`
   case "$?" in
 0)  echo "A working wcsxfrm() found." >&4
     val="$define" ;;
 *)  echo "wcsxfrm() found, but it doesn't work" >&4
     ;;
 esac
else
   echo "wcsxfrm() NOT found." >&4
   fi
set d_wcsxfrm
eval $setvar
```

```
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_wcsxfrm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sjis2jis.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sjis2jis.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:25  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_sjis2jis: Inlibc
?MAKE: -pick add $@ %<
?S:d_sjis2jis:
?S: This variable conditionally defines the HAS_SJIS2JIS symbol, which
?S: indicates to the C program that the sjis2jis() routine is available
?S: to convert SJIS to JIS.
?S:.
?C:HAS_SJIS2JIS:
?C: This symbol, if defined, indicates that the sjis2jis routine is
?C: available
 to convert SJIS to JIS.
?C:.
?H:#$d_sjis2jis HAS_SJIS2JIS  /**/
?H:.
?LINT:set d_sjis2jis
: see if sjis2jis exists
set sjis2jis d_sjis2jis
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sjis2jis.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_crypt.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_crypt.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:31:47  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_crypt cryptlib: Loc test xlibpth libpth Csym Setvar _a Inlibc
?MAKE: -pick add $@ %<
?S:d_crypt:
?S: This variable conditionally defines the CRYPT symbol, which
?S: indicates to the C program that the crypt() routine is available
?S: to
 encrypt passwords and the like.
?S:.
?S:cryptlib:
?S: This variable holds -lcrypt or the path to a libcrypt.a archive if
?S: the crypt() function is not defined in the standard C library. It is
?S: up to the Makefile to use this.
?S:.
?C:HAS_CRYPT (CRYPT):
?C: This symbol, if defined, indicates that the crypt routine is available
?C: to encrypt passwords and the like.
?C:.
?H:#$d_crypt HAS_CRYPT  /**/
?H:.
?LINT:set d_crypt
?T:val
: see if crypt exists
echo " "
set crypt d_crypt
eval $inlibc
case "$d_crypt" in
$define) cryptlib=" ;;
*) if set crypt val -f d_crypt; eval $csym; $val; then
  echo 'crypt() found.' >&4
  val="$define"
  cryptlib="
 else
  cryptlib=`./loc Slibcrypt$_a "" $xlibpth`
  if $test -z "$cryptlib"; then
```

```
  cryptlib=`./loc Mlibcrypt$_a "" $xlibpth`
 else
  cryptlib=-lcrypt
 fi
 if $test -z "$cryptlib"; then
  cryptlib=`./loc Llibcrypt$_a "" $xlibpth`
 else
  cryptlib=-lcrypt
 fi
 if $test -z "$cryptlib"; then
  cryptlib=`./loc libcrypt$_a ""
$libpth`
 else
  cryptlib=-lcrypt
 fi
 if $test -z "$cryptlib"; then
  echo 'crypt() NOT found.' >&4
  val="$undef"
 else
  val="$define"
 fi
fi
set d_crypt
eval $setvar
;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_crypt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vaproto.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Orginal Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: vaproto.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:17:16  ram
?RCS: patch16: definition of _V now appears only when needed
?RCS:
```

```
?RCS: Revision 3.0  1993/08/18  12:09:59  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:vaproto: prototype i_stdarg Setvar
?MAKE: -pick add $@ %<
?S:vaproto:
?S: This variable conditionally defines CAN_VAPROTO on systems supporting
?S: prototype
 declaration of functions with a variable number of
?S: arguments. See also prototype.
?S:.
?C:CAN_VAPROTO ~ %<:
?C: This variable is defined on systems supporting prototype declaration
?C: of functions with a variable number of arguments.
?C:.
?C:_V:
?C: This macro is used to declare function parameters in prototypes for
?C: functions with a variable number of parameters. Use double parentheses.
?C: For example:
?C:
?C:  int printf _V((char *fmt, ...));
?C:
?C: Remember to use the plain simple _() macro when declaring a function
?C: with no variable number of arguments, since it might be possible to
?C: have a non-effect _V() macro and still get prototypes via _().
?C:.
?H:?%<:#$vaproto CAN_VAPROTO /**/
?H:?_V:#ifdef CAN_VAPROTO
?H:?_V:#define _V(args) args
?H:?_V:#else
?H:?_V:#define _V(args) ()
?H:?_V:#endif
?H:.
?LINT:set vaproto
: see if prototypes support variable argument declarations
echo " "
case "$prototype$i_stdarg" in
$define$define)
 echo "It appears we'll be able
 to prototype varargs functions." >&4
 val="$define"
 ;;
*)
 echo "Too bad... We won't be using prototyped varargs functions..." >&4
 val="$undef"
 ;;
esac
set vaproto
```

```
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/vaproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2017 Dagfinn Ilmari Mannsåker
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strnlen: Inlibc
?MAKE: -pick add $@ %<
?S:d_strnlen:
?S: This variable conditionally defines the HAS_STRNLEN symbol, which
?S: indicates to the C program that the strnlen () routine is available.
?S:.
?C:HAS_STRNLEN:
?C: This symbol, if defined, indicates that the strnlen () routine is
?C: available to check the length of a string up to a maximum.
?C:.
?H:#$d_strnlen HAS_STRNLEN  /**/
?H:.
?LINT:set d_strnlen
: see if strnlen exists
set strnlen d_strnlen
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strnlen.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_inttypes: Inhdr cat rm_try Setvar Compile
?MAKE: -pick add $@ %<
```

```
?S:i_inttypes:
?S: This variable conditionally defines the I_INTTYPES symbol,
?S: and indicates whether a C program should include <inttypes.h>.
?S:.
?C:I_INTTYPES:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <inttypes.h>.
?C:.
?H:#$i_inttypes   I_INTTYPES                /**/
?H:.
?LINT:set i_inttypes
: see if inttypes.h is available
: we want a real compile instead of Inhdr because some systems
: have an inttypes.h
 which includes non-existent headers
echo " "
$cat >try.c <<EOCP
#include <inttypes.h>
int main() {
 static int32_t foo32 = 0x12345678;
}
EOCP
set try
if eval $compile; then
 echo "<inttypes.h> found." >&4
 val="$define"
else
 echo "<inttypes.h> NOT found." >&4
 val="$undef"
fi
$rm_try
set i_inttypes
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_inttypes.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_systwgcf.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: i_systwgcf.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_systwgcf: Inhdr
?MAKE: -pick add $@ %<
?S:i_systwgcf:
?S: This variable conditionally defines the I_SYS_TWG_CF symbol, and
?S: indicates whether a C program should include sys/twg_config.h.
?S:.
?C:I_SYS_TWG_CF:
?C: This symbol, if defined, indicates to the C program that it should
?C: include sys/twg_config.h.
?C:.
?H:#$i_systwgcf
 I_SYS_TWG_CF /**/
?H:.
?LINT:set i_systwgcf
: see if this is a sys/twg_config.h system
set sys/twg_config.h i_systwgcf
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_systwgcf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getwd.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getwd.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:18  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getwd: Csym Setvar
?MAKE: -pick add $@ %<
?S:d_getwd:
?S: This variable conditionally defines HAS_GETWD if getwd() is
?S: available to get working directory. If not, you should
?S: probably use getcwd().
```

```
?S:.
?C:HAS_GETWD (GETWD):
?C: This symbol, if defined, indicates that the getwd routine is
?C: available to get working directory.
 If not, you should
?C: probably use getcwd().
?C:.
?H:#$d_getwd HAS_GETWD  /**/
?H:.
?LINT:set d_getwd
: see if getwd exists
echo " "
if set getwd val -f d_getwd; eval $csym; $val; then
 echo 'getwd() found.' >&4
 val="$define"
else
 echo 'getwd() not found. Assuming getcwd() exists.' >&4
 val="$undef"
fi
set d_getwd
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getwd.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_statvfs d_fstatvfs: Inlibc
?MAKE: -pick add $@ %<
?S:d_statvfs:
?S: This variable conditionally defines the HAS_STATVFS symbol, which
?S: indicates to the C program that the statvfs() routine is available.
?S:.
?S:d_fstatvfs:
?S: This variable conditionally defines the HAS_FSTATVFS symbol, which
?S: indicates to the C program that the fstatvfs() routine is available.
?S:.
?C:HAS_STATVFS:
?C: This symbol, if defined, indicates that the statvfs routine is
?C: available to stat filesystems by filenames.
?C:.
```

```
?C:HAS_FSTATVFS:
?C: This symbol, if defined, indicates that the fstatvfs routine is
?C: available to stat filesystems by file descriptors.
?C:.
?H:#$d_statvfs HAS_STATVFS  /**/
?H:#$d_fstatvfs
 HAS_FSTATVFS  /**/
?H:.
?LINT:set d_statvfs
?LINT:set d_fstatvfs
: see if statvfs exists
set statvfs d_statvfs
eval $inlibc

: see if fstatvfs exists
set fstatvfs d_fstatvfs
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_statvfs.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getmntent: Inlibc
?MAKE: -pick add $@ %<
?S:d_getmntent:
?S: This variable conditionally defines the HAS_GETMNTENT symbol, which
?S: indicates to the C program that the getmntent() routine is available
?S: to iterate through mounted files to get their mount info.
?S:.
?C:HAS_GETMNTENT:
?C: This symbol, if defined, indicates that the getmntent routine is
?C: available to iterate through mounted file systems to get their info.
?C:.
?H:#$d_getmntent HAS_GETMNTENT  /**/
?H:.
?LINT:set d_getmntent
: see if getmntent exists
set getmntent d_getmntent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getmntent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_passwd.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_passwd.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:37:21  ram
?RCS: patch61: useless unit dropped.
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:09:51  ram
?RCS: patch32: created by ADO
?RCS:
?X:
?X: Useless unit dropped.
?X:
?LINT:empty
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_passwd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_malloc.U,v 3.1 2003/01/21 18:51:51 merijn Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: i_malloc.U,v $
?RCS: Revision 3.1  2003/01/21  18:51:51  merijn
?RCS: Moved to modified: Ihdr replaced with Compile
?RCS:
```

```
?RCS: $Log: i_malloc.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:21  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_malloc: cat rm_try Compile Setvar i_mallocmalloc
?MAKE: -pick add $@ %<
?S:i_malloc:
?S: This variable conditionally defines the I_MALLOC symbol, and indicates
?S: whether a C program should include <malloc.h>.
?S:.
?C:I_MALLOC:
?C: This
 symbol, if defined, indicates to the C program that it should
?C: include <malloc.h>.
?C:.
?H:#$i_malloc I_MALLOC  /**/
?H:.
?LINT:set i_malloc
: see if this is a malloc.h system
: we want a real compile instead of Inhdr because some systems have a
: malloc.h that just gives a compile error saying to use stdlib.h instead
echo " "
$cat >try.c <<EOCP
#include <stdlib.h>
#include <malloc.h>
#$i_mallocmalloc I_MALLOCMALLOC
#ifdef I_MALLOCMALLOC
# include <malloc/malloc.h>
#endif

int main () { return 0; }
EOCP
set try
if eval $compile; then
   echo "<malloc.h> found." >&4
   val="$define"
else
   echo "<malloc.h> NOT found." >&4
   val="$undef"
fi
$rm_try
set i_malloc
eval $setvar

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-
5.34.0/U/modified/i_malloc.U
```

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```
?RCS: $Id: d_localtime_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS: Copyright (c) 2006,2007 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_localtime_r d_localtime_r_needs_tzset localtime_r_proto: Inlibc \
 cat run Protochk Hasproto i_systypes usethreads i_time i_systime \
 rm_try Compile extern_C i_stdlib i_unistd i_malloc
?MAKE: -pick add $@ %<
?S:d_localtime_r:
?S: This variable conditionally defines the HAS_LOCALTIME_R symbol,
?S: which indicates to the C program that the localtime_r()
?S: routine is available.
?S:.
?S:d_localtime_r_needs_tzset:
?S: This variable conditionally defines the LOCALTIME_R_NEEDS_TZSET
?S: symbol, which makes us call tzset before localtime_r()
?S:.
?S:localtime_r_proto:
?S: This
 variable encodes the prototype of localtime_r.
?S: It is zero if d_localtime_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_localtime_r
?S: is defined.
?S:.
?C:HAS_LOCALTIME_R:
?C: This symbol, if defined, indicates that the localtime_r routine
?C: is available to localtime re-entrantly.
?C:.
?C:LOCALTIME_R_NEEDS_TZSET:
?C: Many libc's localtime_r implementations do not call tzset,
?C: making them differ from localtime(), and making timezone
?C: changes using \$ENV{TZ} without explicitly calling tzset
?C: impossible. This symbol makes us call tzset before localtime_r
?C:.
?H:?%<:#$d_localtime_r_needs_tzset LOCALTIME_R_NEEDS_TZSET /**/
?H:?%<:#ifdef LOCALTIME_R_NEEDS_TZSET
?H:?%<:#define L_R_TZSET tzset(),
?H:?%<:#else
?H:?%<:#define L_R_TZSET
?H:?%<:#endif
?H:.
```

```
?W:%<:L_R_TZSET
?C:L_R_TZSET:
?C: If localtime_r() needs tzset, it is defined in this define
?C:.
?C:LOCALTIME_R_PROTO:
?C: This symbol encodes the prototype of localtime_r.
?C: It is
 zero if d_localtime_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_localtime_r
?C: is defined.
?C:.
?H:#$d_localtime_r HAS_LOCALTIME_R /**/
?H:#define LOCALTIME_R_PROTO $localtime_r_proto /**/
?H:.
?T:try hdrs d_localtime_r_proto
?F:!try
: see if localtime_r exists
set localtime_r d_localtime_r
eval $inlibc
case "$d_localtime_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_time time.h $i_systime sys/time.h"
 case "$d_localtime_r_proto:$usethreads" in
 ":define") d_localtime_r_proto=define
  set d_localtime_r_proto localtime_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_localtime_r_proto" in
 define)
 case "$localtime_r_proto" in
 "|0) try='struct tm* localtime_r(const time_t*, struct tm*);'
 ./protochk "$extern_C $try" $hdrs && localtime_r_proto=S_TS ;;
 esac
 case "$localtime_r_proto" in
 "|0) try='int localtime_r(const time_t*, struct tm*);'
 ./protochk "$extern_C $try" $hdrs && localtime_r_proto=I_TS ;;
 esac
 case "$localtime_r_proto"
 in
 "|0) d_localtime_r=undef
  localtime_r_proto=0
  echo "Disabling localtime_r, cannot determine prototype." >&4 ;;
 * ) case "$localtime_r_proto" in
  REENTRANT_PROTO*) ;;
  *) localtime_r_proto="REENTRANT_PROTO_$localtime_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
```

```
 esac
 ;;
 *) case "$usethreads" in
  define) echo "localtime_r has no prototype, not using it." >&4 ;;
  esac
  d_localtime_r=undef
  localtime_r_proto=0
  ;;
 esac
 ;;
*) localtime_r_proto=0
 ;;
esac

: see if localtime_r calls tzset
case "$localtime_r_proto" in
REENTRANT_PROTO*)
 $cat >try.c <<EOCP
/*  Does our libc's localtime_r call tzset ?
*  return 0 if so, 1 otherwise.
*/
#$i_systypes I_SYS_TYPES
#$i_unistd I_UNISTD
#$i_time I_TIME
#$i_stdlib I_STDLIB
#$i_malloc I_MALLOC
#ifdef I_SYS_TYPES
#  include <sys/types.h>
#endif
#ifdef I_UNISTD
#  include <unistd.h>
#endif
#ifdef I_TIME
#  include <time.h>
#endif
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <string.h>
#ifdef I_MALLOC
#  include <malloc.h>
#endif
int
 main()
{
   int result = 0;
   time_t t = time(0L);
   char w_tz[]="TZ" "=GMT+5",
```

```
  e_tz[]="TZ" "=GMT-5",
 *tz_e = (char*)malloc(16),
 *tz_w = (char*)malloc(16);
   struct tm tm_e, tm_w;
   memset(&tm_e,'\0',sizeof(struct tm));
   memset(&tm_w,'\0',sizeof(struct tm));
   strcpy(tz_e,e_tz);
   strcpy(tz_w,w_tz);

   putenv(tz_e);
   localtime_r(&t, &tm_e);

   putenv(tz_w);
   localtime_r(&t, &tm_w);

   if( memcmp(&tm_e, &tm_w, sizeof(struct tm)) == 0 )
 result = 1;

   free(tz_e);free(tz_w);
   return result;
}
EOCP
 set try
 if eval $compile; then
     if $run ./try; then
  d_localtime_r_needs_tzset=undef;
     else
  d_localtime_r_needs_tzset=define;
     fi;
 else
     d_localtime_r_needs_tzset=undef;
 fi;
    ;;
 *)
    d_localtime_r_needs_tzset=undef;
    ;;
esac
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_localtime_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Cppsym.U,v $
?RCS: Revision 3.0.1.5  1995/05/12  11:59:11  ram
?RCS: patch54: split awk command onto two lines for older awks (ADO)
?RCS:
?RCS: Revision 3.0.1.4  1995/01/11  14:55:57  ram
?RCS: patch45: new cc vs. cpp symbol checking suggested by JHI
?RCS: patch45: added more cpp symbols (JHI)
?RCS:
?RCS: Revision 3.0.1.3  1994/10/29  15:51:32  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: new symbols ardent and titan (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20
  06:53:32  ram
?RCS: patch30: extended cpp symbol lookup list (JHI)
?RCS: patch30: renamed attrlist symbol into al for brevity
?RCS:
?RCS: Revision 3.0.1.1  1993/12/15  08:14:14  ram
?RCS: patch15: added new cpp symbols __bsdi__ and BSD_NET2
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script called Cppsym, which can be used to
?X: determine whether any in a list of symbols is defined by the C compilation
?X: chain (C preprocessor symbols plus C compiler native ones).
?X: It can determine the status of any symbol, though the symbols in $al
?X: are more easily determined.  If you want to add to $al you can do
?X: it in Myinit.U.
?X:
?MAKE:Cppsym ccsymbols cppsymbols cppccsymbols: run \
 eunicefix Guess awk cat tr sed sort rm startsh osname \
 +cc gccversion test comm uniq echo Options trnl \
 optimize ccflags ldflags libs
?MAKE: -pick add $@ %<
?S:ccsymbols:
?S: The variable contains the symbols
 defined by the C compiler alone.
?S: The symbols defined by cpp or by cc when it calls cpp are not in
?S: this list, see cppsymbols and cppccsymbols.
?S: The list is a space-separated list of symbol=value tokens.
```

```
?S:.
?S:cppsymbols:
?S: The variable contains the symbols defined by the C preprocessor
?S: alone.  The symbols defined by cc or by cc when it calls cpp are
?S: not in this list, see ccsymbols and cppccsymbols.
?S: The list is a space-separated list of symbol=value tokens.
?S:.
?S:cppccsymbols:
?S: The variable contains the symbols defined by the C compiler
?S: when it calls cpp.  The symbols defined by the cc alone or cpp
?S: alone are not in this list, see ccsymbols and cppsymbols.
?S: The list is a space-separated list of symbol=value tokens.
?S:.
?T:also symbols i postprocess_cc_v flags
?F:./Cppsym
?F:!Cppsym.true !Cppsym.know !ccsym.com !ccsym.cpp !ccsym.own
: determine known pre-processor and compiler symbols
echo " "
$echo "Guessing which symbols your C compiler and preprocessor
 define..." >&4
?X:
?X: The symbol list is in alpha order for ease of maintenance...
?X:
?X: Lots of new symbols (mostly rummaged from gcc), courtesy of
?X: Jarkko Hietaniemi <jhi@snakemail.hut.fi> -- RAM, 06/06/94
?X:
?X: If your symbol is mixed case, just add it as-is.
?X: All symbols will be transformed to both all-lower and all-upper.
?X: Also drop any leading/trailing underscores, the scan will try all those.
?X:
$cat <<'EOSH' > Cppsym.know
a29k ABI64 aegis AES_SOURCE AIX AIX32 AIX370
AIX41 AIX42 AIX43 AIX_SOURCE aixpc ALL_SOURCE
alliant alpha am29000 AM29000 AMD64 amiga AMIGAOS AMIX
ansi ANSI_C_SOURCE apollo ardent ARM32 atarist att386 att3b
BeOS BIG_ENDIAN BIT_MSF bsd BSD bsd43 bsd4_2 bsd4_3 BSD4_3 bsd4_4
BSD_4_3 BSD_4_4 BSD_NET2 BSD_TIME BSD_TYPES BSDCOMPAT bsdi
bull c cadmus clipper CMU COFF COMPILER_VERSION
concurrent convex cpu cray CRAY CRAYMPP ctix CX_UX
CYGWIN DGUX DGUX_SOURCE DJGPP dmert DOLPHIN DPX2 DSO
Dynix DynixPTX ELF encore EPI EXTENSIONS FAVOR_BSD
FILE_OFFSET_BITS
 FreeBSD GCC_NEW_VARARGS gcos gcx gimpel
GLIBC GLIBC_MINOR
GNU_SOURCE GNUC GNUC_MINOR GNU_LIBRARY GO32 gould GOULD_PN
H3050R H3050RX hbullx20 hcx host_mips
hp200 hp300 hp700 HP700 hp800 hp9000
hp9000s200 hp9000s300 hp9000s400 hp9000s500
```

hp9000s700 hp9000s800 hp9k8 hp_osf hppa hpux HPUX_SOURCE
i186 i286 i386 i486 i586 i686 i8086 i80960 i860 I960
IA64 iAPX286 ibm ibm032 ibmesa IBMR2 ibmrt ILP32 ILP64
INLINE_INTRINSICS INTRINSICS INT64 interdata is68k ksr1
LANGUAGE_C LARGE_FILE_API LARGEFILE64_SOURCE
LARGEFILE_SOURCE LFS64_LARGEFILE LFS_LARGEFILE
Linux LITTLE_ENDIAN LONG64 LONG_DOUBLE LONG_LONG
LONGDOUBLE LONGLONG LP64 luna luna88k Lynx
M68000 m68k m88100 m88k M88KBCS_TARGET M_COFF
M_I186 M_I286 M_I386 M_I8086 M_I86 M_I86SM M_SYS3
M_SYS5 M_SYSIII M_SYSV M_UNIX M_XENIX MACH machine MachTen
MATH_HAS_NO_SIDE_EFFECTS
mc300 mc500 mc68000 mc68010 mc68020 mc68030 mc68040
mc68060 mc68k mc68k32 mc700 mc88000 mc88100 merlin
mert MiNT mips MIPS_FPSET MIPS_ISA MIPS_SIM MIPS_SZINT
MIPS_SZLONG
MIPS_SZPTR MIPSEB MIPSEL MODERN_C motorola
mpeix MSDOS MTXINU MULTIMAX mvs MVS n16 ncl_el ncl_mr
NetBSD news1500 news1700 news1800 news1900 news3700
news700 news800 news900 NeXT NLS nonstopux ns16000 ns32000
ns32016 ns32332 ns32k nsc32000
OCS88 OEMVS OpenBSD os OS2 OS390 osf OSF1 OSF_SOURCE
pa_risc PA_RISC1_1 PA_RISC2_0 PARAGON parisc
pc532 pdp11 PGC PIC plexus PORTAR posix
POSIX1B_SOURCE POSIX2_SOURCE POSIX4_SOURCE
POSIX_C_SOURCE POSIX_SOURCE POWER
PROTOTYPES PWB pyr QNX R3000 REENTRANT RES Rhapsody RISC6000
riscix riscos RT S390 SA110 scs SCO sequent sgi SGI_SOURCE SH3 sinix
SIZE_INT SIZE_LONG SIZE_PTR SOCKET_SOURCE SOCKETS_SOURCE
sony sony_news sonyrisc sparc sparclite spectrum
stardent stdc STDC_EXT stratos sun sun3 sun386
Sun386i svr3 svr4 SVR4_2 SVR4_SOURCE svr5
SX system SYSTYPE_BSD SYSTYPE_BSD43 SYSTYPE_BSD44
SYSTYPE_SVR4 SYSTYPE_SVR5 SYSTYPE_SYSV SYSV SYSV3 SYSV4 SYSV5
sysV68 sysV88 Tek4132 Tek4300 titan
TM3200 TM5400 TM5600
tower tower32 tower32_200 tower32_600 tower32_700
tower32_800
tower32_850 tss
u370 u3b u3b2 u3b20 u3b200 u3b20d u3b5
ultrix UMAXV UnicomPBB UnicomPBD UNICOS UNICOSMK
unix UNIX95 UNIX99 unixpc unos
USE_BSD USE_FILE_OFFSET64 USE_GNU USE_ISOC9X USE_LARGEFILE USE_LARGEFILE64
USE_MISC USE_POSIX USE_POSIX199309 USE_POSIX199506 USE_POSIX2
USE_REENTRANT USE_SVID USE_UNIX98 USE_XOPEN USE_XOPEN_EXTENDED
USGr4 USGr4_2
Utek UTek UTS UWIN uxpm uxps vax venix VMESA vms xenix Xenix286
XOPEN_SOURCE XOPEN_SOURCE_EXTENDED XPG2 XPG2_EXTENDED

```
XPG3 XPG3_EXTENDED XPG4 XPG4_EXTENDED
z8000
EOSH
?X: Maybe put other stuff here too.
cat <<EOSH >>Cppsym.know
$osname
EOSH
./tr '[a-z]' '[A-Z]' < Cppsym.know > Cppsym.a
./tr '[A-Z]' '[a-z]' < Cppsym.know > Cppsym.b
$cat Cppsym.know > Cppsym.c
$cat Cppsym.a Cppsym.b Cppsym.c | $tr ' ' $trnl | $sort | $uniq > Cppsym.know
$rm -f Cppsym.a Cppsym.b Cppsym.c
cat <<EOSH > Cppsym
$startsh
if $test \$# -gt 0; then
   echo \$* | $tr " " "$trnl" | ./Cppsym.try > Cppsym.got
   if $test -s Cppsym.got; then
       $rm -f Cppsym.got
        exit 0
   fi
   $rm -f Cppsym.got
   exit 1
else
   $tr " " "$trnl" | ./Cppsym.try
   exit 0
fi
EOSH
chmod +x Cppsym
$eunicefix Cppsym
?X: The below awk script will die a horrible death if
?X: some of the tested symbols are not long ints.
?X: Also, we do not make difference between just defined and defined zero.
cat <<EOSH > Cppsym.try
$startsh
cat <<'EOCP' > try.c
#include <stdio.h>
int main() {
EOCP
?X: The length($1) command guards against possible empty entries.
?X: The awk snippet is know to give heartburn to UNICOS/mk awk.
$awk \\
EOSH
cat <<'EOSH' >> Cppsym.try
'length($1) > 0 {
   printf "#ifdef %s\n#if %s+0\nprintf(\"%s=%%ld\\n\", (long)%s);\n#else\nprintf(\"%s\\n\");\n#endif\n#endif\n", $1,
$1, $1, $1, $1
   printf "#ifdef _%s\n#if _%s+0\nprintf(\"_%s=%%ld\\n\",
(long)_%s);\n#else\nprintf(\"_%s\\n\");\n#endif\n#endif\n", $1, $1, $1, $1, $1
```

```
   printf "#ifdef __%s\n#if __%s+0\nprintf(\"__%s=%%ld\\n\",
(long)__%s);\n#else\nprintf(\"__%s\\n\");\n#endif\n#endif\n",
 $1, $1, $1, $1, $1
   printf "#ifdef __%s__\n#if __%s__+0\nprintf(\"__%s__=%%ld\\n\",
(long)__%s__);\n#else\nprintf(\"__%s__\\n\");\n#endif\n#endif\n", $1, $1, $1, $1, $1
}'  >> try.c
echo 'return 0;}' >> try.c
EOSH
cat <<EOSH >> Cppsym.try
flags="$ccflags"
case "$osname-$gccversion" in
irix-) flags="\$flags -woff 1178" ;;
os2-*) flags="\$flags -Zlinker /PM:VIO" ;;
esac
$cc -o try $optimize \$flags $ldflags try.c $libs && $run ./try
EOSH
chmod +x Cppsym.try
$eunicefix Cppsym.try
./Cppsym < Cppsym.know > Cppsym.true
: now check the C compiler for additional symbols
?X: suggested by Jarkko Hietaniemi <jhi@snakemail.hut.fi>, thanks!
postprocess_cc_v="
case "$osname" in
aix) postprocess_cc_v="|$tr , ' '" ;;
esac
$cat >ccsym <<EOS
$startsh
$cat >tmp.c <<EOF
extern int foo;
EOF
for i in \`$cc -v -c tmp.c 2>&1 $postprocess_cc_v\`
do
 case "\$i" in
 -D*) echo "\$i" | $sed 's/^-D//';;
 -A*) $test "$gccversion" && echo "\$i" | $sed 's/^-A//' | $sed 's/\(.*\)(\(.*\))/\1=\2/';;
 esac
done
$rm
 -f try.c
EOS
postprocess_cc_v="
chmod +x ccsym
$eunicefix ccsym
./ccsym > ccsym1.raw
?X: AIX complains if $uniq is passed an empty file.  ($sort apparently
?X: doesn't care.)  --AD  14 July 1998
if $test -s ccsym1.raw; then
     $sort ccsym1.raw | $uniq >ccsym.raw
```

```
else
      mv ccsym1.raw ccsym.raw
fi

?X: canonicalize symbols for easier sort/uniq/comm usage: append =1 if no = sign
?X: the awk script must be on two lines for older awk programs, sigh! -- ADO
$awk '/\=/ { print $0; next }
 { print $0"=1" }' ccsym.raw >ccsym.list
$awk '/\=/ { print $0; next }
 { print $0"=1" }' Cppsym.true >ccsym.true
$comm -13 ccsym.true ccsym.list >ccsym.own
$comm -12 ccsym.true ccsym.list >ccsym.com
$comm -23 ccsym.true ccsym.list >ccsym.cpp
also=''
if $test -z ccsym.raw; then
 echo "Your C compiler doesn't seem to define any symbols!" >&4
 echo " "
 echo "However, your C preprocessor defines the following symbols:"
 $cat Cppsym.true
    ccsymbols=''
 cppsymbols=`$cat Cppsym.true`
       cppsymbols=`echo
 $cppsymbols`
 cppccsymbols="$cppsymbols"
else
 if $test -s ccsym.com; then
  echo "Your C compiler and pre-processor define these symbols:"
  $sed -e 's/\(..*\)=.*/\1/' ccsym.com
  also='also '
  symbols='ones'
  cppccsymbols=`$cat ccsym.com`
  cppccsymbols=`echo $cppccsymbols`
  $test "$silent" || sleep 1
 fi
 if $test -s ccsym.cpp; then
  $test "$also" && echo " "
  echo "Your C pre-processor ${also}defines the following symbols:"
  $sed -e 's/\(..*\)=.*/\1/' ccsym.cpp
  also='further '
  cppsymbols=`$cat ccsym.cpp`
  cppsymbols=`echo $cppsymbols`
  $test "$silent" || sleep 1
 fi
 if $test -s ccsym.own; then
  $test "$also" && echo " "
  echo "Your C compiler ${also}defines the following cpp symbols:"
  $sed -e 's/\(..*\)=1/\1/' ccsym.own
  $sed -e 's/\(..*\)=.*/\1/' ccsym.own | $uniq >>Cppsym.true
```

```
        ccsymbols=`$cat ccsym.own`
        ccsymbols=`echo $ccsymbols`
  $test "$silent" || sleep 1
 fi
fi
$rm -f Cppsym.know Cppsym.true
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Cppsym.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2009 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_inetntop: Inlibc
?MAKE: -pick add $@ %<
?S:d_inetntop:
?S: This variable conditionally defines the HAS_INETNTOP symbol,
?S: which indicates to the C program that the inet_ntop() function
?S: is available.
?S:.
?C:HAS_INETNTOP:
?C: This symbol, if defined, indicates that the inet_ntop() function
?C: is available to parse IPv4 and IPv6 strings.
?C:.
?H:#$d_inetntop HAS_INETNTOP  /**/
?H:.
?LINT:set d_inetntop
: see if inet_ntop exists
set inet_ntop d_inetntop
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_inetntop.U
No license file was found, but licenses were detected in source scan.

```
?RCS:
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```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:Assert: cat
?MAKE: -pick add $@ %<
?F:./static_assert.h
: static assertion checking include file
?X:
?X: C programs can include this file to perform STATIC_ASSERT() checks
?X: which are done at compile-time and cause the compilation to fail when
?X: the expression is false.
?X:
?X: It is sufficient to compile with: $cc -c $ccflags try.c
?X: There is no need to link the file to spot the assertion failure.
?X:
$cat >static_assert.h <<'EOC'
#define STATIC_ASSERT(expr) \
 do { switch (0) { case ((expr) ? 1 : 0): case 0: break; } }
 while(0)
EOC
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Assert.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_raster.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_raster.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_raster rasterlib: cat test Setvar Myread Oldconfig
?MAKE: -pick add $@ %<
?S:d_raster:
?S: Conditionally defines RASTER_TEK if this is a raster tech machine.
?S:.
?S:rasterlib (d_rasterlib):
?S: Set to the needed compile flag if this is a raster tech machine.
?S: It is up to the Makefile to use this variable.
```

```
?S:.
?C:RASTER_TEK:
?C: Defined
 if this is a rastertech machine.
?C:.
?H:#$d_raster RASTER_TEK /**/
?H:.
?LINT:set d_raster
: See if this is a raster tech machine.
val="$undef"
rasterlib=''
if $test -r /dev/mirage; then
 $cat <<'EOM'

You seem to have a mirage device... this is normally associated with a raster
technologies graphics workstation. If this is right, you may want to use raster
tech in this program.

EOM
 dflt=y
 case "$d_raster" in
 "$undef") dflt=n;;
 esac
 rp='Use raster tech?'
 . ./myread
 case "$ans" in
 y*) val="$define";;
 esac
fi
set d_raster
eval $setvar

case "$d_raster" in
"$define") rasterlib='-lphigs';;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_raster.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_wifstat.U,v 3.0.1.3 1997/02/28 15:47:43 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_wifstat.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:47:43  ram
?RCS: patch61: added a ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  14:09:10  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.1  1995/03/21  08:47:46  ram
?RCS: patch52: created
?RCS:
?MAKE:d_wifstat: Compile d_uwait Oldconfig cat rm
?MAKE: -pick add $@ %<
?S:d_wifstat:
?S: This symbol conditionally defines USE_WIFSTAT
 if the C program can
?S: safely use the WIFxxx macros with the kind of wait() parameter
?S: declared in the program (see UNION_WAIT), or if it can't. Should
?S: only matter on HP-UX, where the macros are incorrectly written and
?S: therefore cause programs using them with an 'union wait' variable
?S: to not compile properly.
?S:.
?C:USE_WIFSTAT:
?C: This symbol, if defined, indicates to the C program that the argument
?C: for the WIFxxx set of macros such as WIFSIGNALED or WIFEXITED can
?C: be of the same kind as the one used to hold the wait() status. Should
?C: only matter on HP-UX, where the macros are incorrectly written and
?C: therefore cause programs using them with an 'union wait' variable
?C: to not compile properly. See also UNION_WAIT.
?C:.
?H:#$d_wifstat USE_WIFSTAT  /**/
?H:.
?T:type
?F:!foo
: see if we can use WIFxxx macros
echo " "
case "$d_wifstat" in
"$define") echo "As before, you can safely use WIFEXITED and friends!" >&4;;
"$undef") echo "You still can't use WIFEXITED
 and friends!" >&4;;
*)
 echo "Let's see whether you can use the WIFEXITED(status) macro and its"
 case "$d_uwait" in
 "$define") type='union wait';;
 *) type='int';;
 esac
```

```
 echo "friends with status declared as '$type status'..."
 $cat >foo.c <<EOCP
#include <sys/types.h>
#include <sys/wait.h>

int main()
{
 $type status;
 int e = 0;

#ifdef WIFEXITED
 if (WIFEXITED(status))
  printf("\n");
 exit(0);
#else
 exit(2);
#endif
}
EOCP
 d_wifstat="$undef"
 set foo
 if eval $compile; then
  if ./foo >/dev/null; then
   echo "Great! Looks like we can use the WIFxxx macros." >&4
   d_wifstat="$define"
  else
   echo "You don't seem to have WIFxxx macros, but that's ok." >&4
  fi
 else
  echo "Apparently you can't use WIFxxx macros properly." >&4
 fi
 $rm -f foo.* foo core
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_wifstat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fcntl_can_lock.U,v$
?RCS:
?RCS: Copyright (c) 2000, Andrew Dougherty
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_fcntl_can_lock.U,v $
```

```
?RCS:
?MAKE:d_fcntl_can_lock: d_fcntl Compile Setvar cat rm_try run signal_t i_stdlib
?MAKE: -pick add $@ %<
?S:d_fcntl_can_lock:
?S: This variable conditionally defines the FCNTL_CAN_LOCK symbol
?S: and indicates whether file locking with fcntl() works.
?S:.
?C:FCNTL_CAN_LOCK:
?C: This symbol, if defined, indicates that fcntl() can be used
?C: for file locking.  Normally on Unix systems this is defined.
?C: It may be undefined on VMS.
?C:.
?H:#$d_fcntl_can_lock FCNTL_CAN_LOCK  /**/
?H:.
?F:!try
?LINT: set d_fcntl_can_lock
?X: fcntl may not be fully functional.  As of November 2000, on VMS and
?X: DOS/DJGPP, fctnl-based locking doesn't work.
?X: Thanks
 to Craig A. Berry <craig.berry@psinetcs.com> for this test.
: See if fcntl-based locking works.
echo " "
$cat >try.c <<EOCP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <unistd.h>
#include <fcntl.h>
#include <signal.h>
$signal_t blech(int x) { exit(3); }
int main() {
#if defined(F_SETLK) && defined(F_SETLKW)
   struct flock flock;
   int retval, fd;
   fd = open("try.c", O_RDONLY);
   flock.l_type = F_RDLCK;
   flock.l_whence = SEEK_SET;
   flock.l_start = flock.l_len = 0;
   signal(SIGALRM, blech);
   alarm(10);
   retval = fcntl(fd, F_SETLK, &flock);
   close(fd);
   (retval < 0 ? exit(2) : exit(0));
#else
   exit(2);
#endif
}
```

```
EOCP
echo "Checking if fcntl-based file locking works... "
case "$d_fcntl" in
"$define")
 set try
 if eval $compile_ok; then
  if $run ./try; then
   echo "Yes, it seems to work."
   val="$define"
  else
   echo "Nope, it didn't work."
   val="$undef"
   case "$?" in
   3) $cat >&4 <<EOM
***
*** I had to
 forcibly timeout from fcntl(..., F_SETLK, ...).
*** This is (almost) impossible.
*** If your NFS lock daemons are not feeling well, something like
*** this may happen, please investigate.  Cannot continue, aborting.
***
EOM
    exit 1
    ;;
   esac
  fi
 else
  echo "I'm unable to compile the test program, so I'll assume not."
  val="$undef"
 fi
 ;;
*) val="$undef";
 echo "Nope, since you don't even have fcntl()."
 ;;
esac
set d_fcntl_can_lock
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fcntl_can_lock.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001, Jarkko Hietaniemi
?RCS:
```

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS:
?MAKE:d_dirfd: Compile cat rm Setvar i_dirent i_sysdir i_sysndir i_systypes i_stdlib
?MAKE: -pick add $@ %<
?S:d_dirfd:
?S: This variable conditionally defines the HAS_DIRFD constant,
?S: which indicates to the C program that dirfd() is available
?S: to return the file descriptor of a directory stream.
?S:.
?C:HAS_DIRFD:
?C: This manifest constant lets the C program know that dirfd
?C: is available.
?C:.
?H:#$d_dirfd HAS_DIRFD  /**/
?H:.
?LINT:set d_dirfd
?X: Can't use Inlibc because dirfd() might be a macro.
: Look
 for dirfd
echo " "
$cat >dirfd.c <<EOM
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_dirent I_DIRENT  /**/
#$i_sysdir I_SYS_DIR  /**/
#$i_sysndir I_SYS_NDIR  /**/
#$i_systypes I_SYS_TYPES /**/
#if defined(I_SYS_TYPES)
#include <sys/types.h>
#endif
#if defined(I_DIRENT)
#include <dirent.h>
#else
#ifdef I_SYS_NDIR
#include <sys/ndir.h>
#else
#ifdef I_SYS_DIR
#include <sys/dir.h>
#endif
#endif
```

```
#endif
int main() {
 DIR *dirp = opendir(".");
 if (dirfd(dirp) >= 0)
  exit(0);
 else
  exit(1);
}
EOM
val=$undef
set dirfd
if eval $compile; then
 val="$define"
fi
case "$val" in
$define) echo "dirfd() found." >&4 ;;
*)  echo "dirfd() NOT found." >&4 ;;
esac
set d_dirfd
eval $setvar
$rm -f dirfd*
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_dirfd.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_csh.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:32:18  ram
?RCS: patch61: added full_csh to preserve the full path even when portable
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:53  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_csh full_csh: csh Setvar
?MAKE: -pick add $@ %<
?S:d_csh:
?S: This variable conditionally defines the CSH symbol, which
```

```
?S: indicates to the C program that the C-shell exists.
?S:.
?S:full_csh:
?S: This variable contains the full pathname to 'csh', whether
 or
?S: not the user has specified 'portability'.  This is only used
?S: in the compiled C program, and we assume that all systems which
?S: can share this executable will have the same full pathname to
?S: 'csh.'
?S:.
?X: Yes, I know about the C symbol PORTABLE, but I think csh
?X: is unlikely to move, and I'm too lazy to add all the
?X: #ifdef PORTABLE sections to the perl source.
?X:
?C:HAS_CSH:
?C: This symbol, if defined, indicates that the C-shell exists.
?C:.
?C:CSH:
?C: This symbol, if defined, contains the full pathname of csh.
?C:.
?X: Previously, I just did $d_csh CSH "$full_csh", but that caused
?X: problems on VMS where the config.sh extraction program changes
?X: $undef to a real cpp undef, and they then had  #undef CSH ""
?X: which the compiler didn't like.  It's easy to work around this,
?X: so I did.  --AD  3/1998.
?X: And we don't want to define CSH if !HAS_CSH, but we don't want
?X: those lines in config.h if they don't need CSH, so protect with ?CSH
?X: and not
 ?%<. --RAM, 15/02/2004
?H:?%<:#$d_csh HAS_CSH  /**/
?H:?CSH:#ifdef HAS_CSH
?H:?CSH:#define CSH "$full_csh" /**/
?H:?CSH:#endif
?H:.
?LINT:set d_csh
: get csh whereabouts
case "$csh" in
'csh') val="$undef" ;;
*) val="$define" ;;
esac
set d_csh
eval $setvar
: Respect a hint or command line value for full_csh.
case "$full_csh" in
") full_csh=$csh ;;
esac
```

Found in path(s):

* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_csh.U
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```
?RCS: $Id: i_sysstat.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysstat.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:48:30  ram
?RCS: patch61: created
?RCS:
?MAKE:i_sysstat: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysstat:
?S: This variable conditionally defines the I_SYS_STAT symbol,
?S: and indicates whether a C program should include <sys/stat.h>.
?S:.
?C:I_SYS_STAT (I_SYSSTAT):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/stat.h>.
?C:.
?H:#$i_sysstat I_SYS_STAT  /**/
?H:.
?LINT:set
 i_sysstat
: see if sys/stat.h is available
set sys/stat.h i_sysstat
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sysstat.U
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```
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```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:gidsign: Myread Typedef gidtype Compile run
?MAKE: -pick add $@ %<
?S:gidsign:
?S: This variable contains the signedness of a gidtype.
?S: 1 for unsigned, -1 for signed.
?S:.
?C:Gid_t_sign:
?C: This symbol holds the signedness of a Gid_t.
?C: 1 for unsigned, -1 for signed.
?C:.
?H:#define Gid_t_sign $gidsign  /* GID sign */
?H:.
?T:yyy zzz
?F:!try
: Check if GID is signed
echo " "
case "$gidtype" in
*_t) zzz="$gidtype" ;;
*)   zzz="gid"  ;;
esac
echo "Checking the sign of $zzz..." >&4
cat > try.c <<EOCP
#include <sys/types.h>
#include
 <stdio.h>
int main() {
 $gidtype foo = -1;
 if (foo < 0)
  printf("-1\n");
 else
  printf("1\n");
}
EOCP
set try
if eval $compile; then
 yyy=`$run ./try`
 case "$yyy" in
 ") gidsign=1
  echo "(I can't execute the test program--guessing unsigned.)" >&4
  ;;
 *) gidsign=$yyy
  case "$gidsign" in
   1) echo "Your $zzz is unsigned." ;;
  -1) echo "Your $zzz is signed."   ;;
  esac
```

```
  ;;
 esac
else
 gidsign=1
 echo "(I can't compile the test program--guessing unsigned.)" >&4
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/gidsign.U
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```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_localeconv_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_localeconv_l:
?S: This variable conditionally defines the HAS_LOCALECONV_L symbol, which
?S: indicates to the C program that the localeconv_l() routine is available.
?S:.
?C:HAS_LOCALECONV_L:
?C: This symbol, if defined, indicates that the localeconv_l routine is
?C: available to query certain information about a locale.
?C:.
?H:#$d_localeconv_l HAS_LOCALECONV_L  /**/
?H:.
?LINT:set d_localeconv_l
: see if localeconv_l exists
set localeconv_l d_localeconv_l
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_localeconv_l.U
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```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
```

```
?MAKE:d_setitimer: Inlibc
?MAKE: -pick add $@ %<
?S:d_setitimer:
?S: This variable conditionally defines the HAS_SETITIMER symbol, which
?S: indicates to the C program that the setitimer() routine is available.
?S:.
?C:HAS_SETITIMER:
?C: This symbol, if defined, indicates that the setitimer routine is
?C: available to set interval timers.
?C:.
?H:#$d_setitimer HAS_SETITIMER  /**/
?H:.
?LINT:set d_setitimer
: see if setitimer exists
set setitimer d_setitimer
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_setitimer.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endgrent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_endgrent_r endgrent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_grp extern_C
?MAKE: -pick add $@ %<
?S:d_endgrent_r:
?S: This variable conditionally defines the HAS_ENDGRENT_R symbol,
?S: which indicates to the C program that the endgrent_r()
?S: routine is available.
?S:.
?S:endgrent_r_proto:
?S: This variable encodes the prototype of endgrent_r.
?S: It is zero if d_endgrent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endgrent_r
?S: is defined.
?S:.
?C:HAS_ENDGRENT_R:
?C: This symbol, if defined, indicates that the endgrent_r routine
?C: is available to
```

```
 endgrent re-entrantly.
?C:.
?C:ENDGRENT_R_PROTO:
?C: This symbol encodes the prototype of endgrent_r.
?C: It is zero if d_endgrent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endgrent_r
?C: is defined.
?C:.
?H:#$d_endgrent_r HAS_ENDGRENT_R /**/
?H:#define ENDGRENT_R_PROTO $endgrent_r_proto /**/
?H:.
?T:try hdrs d_endgrent_r_proto
: see if endgrent_r exists
set endgrent_r d_endgrent_r
eval $inlibc
case "$d_endgrent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_grp grp.h"
 case "$d_endgrent_r_proto:$usethreads" in
 ":define") d_endgrent_r_proto=define
  set d_endgrent_r_proto endgrent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_endgrent_r_proto" in
 define)
 case "$endgrent_r_proto" in
 "|0) try='int endgrent_r(FILE**);'
 ./protochk "$extern_C $try" $hdrs && endgrent_r_proto=I_H ;;
 esac
 case "$endgrent_r_proto" in
 "|0) try='void endgrent_r(FILE**);'
 ./protochk "$extern_C $try" $hdrs && endgrent_r_proto=V_H ;;
 esac
 case "$endgrent_r_proto"
 in
 "|0) d_endgrent_r=undef
  endgrent_r_proto=0
  echo "Disabling endgrent_r, cannot determine prototype." >&4 ;;
 * ) case "$endgrent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) endgrent_r_proto="REENTRANT_PROTO_$endgrent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "endgrent_r has no prototype, not using it." >&4 ;;
```

```
  esac
  d_endgrent_r=undef
  endgrent_r_proto=0
  ;;
 esac
 ;;
*) endgrent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_endgrent_r.U
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```
?RCS: $Id: d_getspnam_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
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?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getspnam_r getspnam_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_shadow extern_C
?MAKE: -pick add $@ %<
?S:d_getspnam_r:
?S: This variable conditionally defines the HAS_GETSPNAM_R symbol,
?S: which indicates to the C program that the getspnam_r()
?S: routine is available.
?S:.
?S:getspnam_r_proto:
?S: This variable encodes the prototype of getspnam_r.
?S: It is zero if d_getspnam_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getspnam_r
?S: is defined.
?S:.
?C:HAS_GETSPNAM_R:
?C: This symbol, if defined, indicates that the getspnam_r routine
?C: is available
 to getspnam re-entrantly.
?C:.
?C:GETSPNAM_R_PROTO:
?C: This symbol encodes the prototype of getspnam_r.
?C: It is zero if d_getspnam_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getspnam_r
?C: is defined.
?C:.
```

```
?H:#$d_getspnam_r HAS_GETSPNAM_R /**/
?H:#define GETSPNAM_R_PROTO $getspnam_r_proto /**/
?H:.
?T:try hdrs d_getspnam_r_proto
: see if getspnam_r exists
set getspnam_r d_getspnam_r
eval $inlibc
case "$d_getspnam_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_shadow shadow.h"
 case "$d_getspnam_r_proto:$usethreads" in
 ":define") d_getspnam_r_proto=define
  set d_getspnam_r_proto getspnam_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getspnam_r_proto" in
 define)
 case "$getspnam_r_proto" in
 "|0) try='int getspnam_r(const char*, struct spwd*, char*, size_t, struct spwd**);'
 ./protochk "$extern_C $try" $hdrs && getspnam_r_proto=I_CSBWR ;;
 esac
 case "$getspnam_r_proto" in
 "|0) try='struct spwd* getspnam_r(const char*, struct
 spwd*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getspnam_r_proto=S_CSBI ;;
 esac
 case "$getspnam_r_proto" in
 "|0) d_getspnam_r=undef
  getspnam_r_proto=0
  echo "Disabling getspnam_r, cannot determine prototype." >&4 ;;
 * ) case "$getspnam_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getspnam_r_proto="REENTRANT_PROTO_$getspnam_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getspnam_r has no prototype, not using it." >&4 ;;
  esac
  d_getspnam_r=undef
  getspnam_r_proto=0
  ;;
 esac
 ;;
*) getspnam_r_proto=0
 ;;
```

```
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getspnam_r.U
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```
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?RCS:
?MAKE:d_erf: Inlibc
?MAKE: -pick add $@ %<
?S:d_erf:
?S: This variable conditionally defines the HAS_ERF symbol, which
?S: indicates to the C program that the erf() routine is available.
?S:.
?C:HAS_ERF:
?C: This symbol, if defined, indicates that the erf routine is
?C: available to do the error function.
?C:.
?H:#$d_erf HAS_ERF  /**/
?H:.
?LINT:set d_erf
: see if erf exists
set erf d_erf
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_erf.U
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:full_ar: ar
?MAKE: -pick add $@ %<
?S:full_ar:
?S: This variable contains the full pathname to 'ar', whether or
?S: not the user has specified 'portability'.  This is only used
?S: in the Makefile.SH.
```

```
?S:.
: Store the full pathname to the ar program for use in the C program
: Respect a hint or command line value for full_ar.
case "$full_ar" in
") full_ar=$ar ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/Loc_ar.U
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_eofpipe.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:12:40  ram
?RCS: patch36: call ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_eofpipe: cat +cc +ccflags +libs rm Oldconfig Guess echo n c
?MAKE: -pick add $@ %<
?S:d_eofpipe:
?S: This variable conditionally defines the EOFPIPE symbol, which
?S: indicates to the C program that select will correctly detect the EOF
?S: condition when pipe
 is closed from the other end.
?S:.
?C:EOFPIPE:
?C: This symbol, if defined, indicates that EOF condition will be detected
?C: by the reader of the pipe when it is closed by the writing process.
?C: That is, a select() call on that file descriptor will not block when
?C: only an EOF remains (typical behaviour for BSD systems).
?C:.
?H:#$d_eofpipe EOFPIPE  /**/
?H:.
?F:!mpipe
: see if pipe correctly gives the EOF condition
echo " "
```

```
case "$d_eofpipe" in
")
 echo "Let's see if your pipes return EOF to select() upon closing..." >&4
 $cat >pipe.c <<'EOP'
int main()
{
 int pd[2];
 int mask;

 pipe(pd);
 if (0 == fork()) {
  close(pd[0]);
  close(pd[1]);
  exit(0);
 }

 close(pd[1]);
 mask = 1 << pd[0];
 alarm(2);
 select(32, &mask, (int *) 0, (int *) 0, (char *) 0);
 if (0 == read(pd[0], &mask, 1))
  exit(0);

 exit(1);
}
EOP
 if $cc $ccflags -o pipe pipe.c $libs >/dev/null 2>&1; then
?X: Use a script to avoid the possible 'alarm call' message
  echo "./pipe || exit 1" > mpipe
  chmod +x
 mpipe
  ./mpipe >/dev/null 2>&1
  case $? in
  0) d_eofpipe="$define";;
  *) d_eofpipe="$undef";;
  esac
 else
  echo "(The test program did not compile correctly -- Guessing.)"
  if ./bsd; then
   d_eofpipe="$define"
  else
   d_eofpipe="$undef"
  fi
 fi
 case "$d_eofpipe" in
 "$define") echo "Yes, they do.";;
 *) echo "No, they don't! (sigh)";;
 esac
```

```
 ;;
*)
 $echo $n "Your pipes $c"
 case "$d_eofpipe" in
 "$define") echo "allow select() to see EOF upon closing.";;
 *) echo "won't let select() see EOF on closing.";;
 esac
 ;;
esac
$rm -f *pipe* core
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_eofpipe.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sfio.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sfio.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:48:27  ram
?RCS: patch61: created
?RCS:
?MAKE:i_sfio: Inhdr Setvar
?MAKE: -pick add $@ %<
?S:i_sfio:
?S: This variable conditionally defines the I_SFIO symbol,
?S: and indicates whether a C program should include <sfio.h>.
?S:.
?C:I_SFIO:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sfio.h>.
?C:.
?H:#$i_sfio I_SFIO  /**/
?H:.
?LINT:set
 i_sfio
: see if sfio.h is available
set sfio.h i_sfio
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sfio.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setgrent.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_setgrent.U,v $
?RCS:
?MAKE:d_setgrent: Inlibc
?MAKE: -pick add $@ %<
?S:d_setgrent:
?S: This variable conditionally defines the HAS_SETGRENT symbol, which
?S: indicates to the C program that the setgrent() routine is available
?S: for initializing sequential access to the group database.
?S:.
?C:HAS_SETGRENT:
?C: This symbol, if defined, indicates that the setgrent routine is
?C: available for initializing sequential access of the group database.
?C:.
?H:#$d_setgrent HAS_SETGRENT  /**/
?H:.
?LINT:set d_setgrent
: see if setgrent exists
set setgrent d_setgrent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_setgrent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: mailfile.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: mailfile.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:24:57  ram
?RCS: patch36: the Loc unit was missing from the dependency line
?RCS:
?RCS: Revision 3.0.1.1  1993/12/15  08:22:08  ram
?RCS: patch15: now also looks under /var/mail for BSD/386
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:11  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:mailfile: Myread Oldconfig Filexp Loc
?MAKE: -pick add $@ %<
?S:mailfile:
?S: This variable contains
 the eventual value of the MAILFILE symbol,
?S: which contains an interpretable name of the mail spool file for the
?S: current user.
?S:.
?C:MAILFILE:
?C: This symbol contains the interpretable name of the mail spool file
?C: for the current user.  The program must be prepared to substitute
?C: the HOME directory for %~, and the login id for %L.
?C:.
?H:#define MAILFILE "$mailfile"  /**/
?H:.
: determine where mail is spooled
case "$mailfile" in
")
 dflt=`./loc . XXX /usr/spool/mail /usr/mail /var/mail`
 case "$dflt" in
 XXX) dflt='%~/mailbox';;
 *) dflt="$dflt/%L";;
 esac
 ;;
*)  dflt="$mailfile"
 ;;
esac
cat <<'EOM'

In the following question, you may use %~ to represent the user's home
directory, and %L to represent a users name.

EOM
rp='In which file is yet-to-be-read mail spooled? (~name ok)'
. ./myread
mailfile=`./filexp "$ans"`

Found in path(s):
```

* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/mailfile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sig_name.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sig_name.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  16:21:25  ram
?RCS: patch61: brand new algorithm for sig_name and (new!) sig_num
?RCS:
?RCS: Revision 3.0.1.4  1995/07/25  14:14:54  ram
?RCS: patch56: added <asm/signal.h> lookup for Linux
?RCS:
?RCS: Revision 3.0.1.3  1995/05/12  12:24:11  ram
?RCS: patch54: now looks for <linux/signal.h> too (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20  07:06:57  ram
?RCS: patch30: final echo was missing to close
 awk-printed string
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:17:55  ram
?RCS: patch23: signal list now formatted to avoid scroll-ups (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:sig_name sig_name_init sig_num sig_num_init sig_count sig_size: \
 awk Signal Oldconfig rm
?MAKE: -pick add $@ %<
?S:sig_name:
?S: This variable holds the signal names, space separated. The leading
?S: SIG in signal name is removed.  A ZERO is prepended to the list.
?S: This is currently not used, sig_name_init is used instead.
?S:.
?S:sig_name_init:
?S: This variable holds the signal names, enclosed in double quotes and
?S: separated by commas, suitable for use in the SIG_NAME definition
?S: below.  A "ZERO" is prepended to the list, and the list is
?S: terminated with a plain 0.  The leading SIG in signal names
?S: is removed. See sig_num.
```

```
?S:.
?S:sig_num:
?S: This variable holds the signal numbers, space separated. A ZERO is
?S: prepended
 to the list (corresponding to the fake SIGZERO).
?S: Those numbers correspond to  the value of the signal listed
?S: in the same place within the sig_name list.
?S: This is currently not used, sig_num_init is used instead.
?S:.
?S:sig_num_init:
?S: This variable holds the signal numbers, enclosed in double quotes and
?S: separated by commas, suitable for use in the SIG_NUM definition
?S: below.  A "ZERO" is prepended to the list, and the list is
?S: terminated with a plain 0.
?S:.
?S:sig_count (sig_name.U):
?S: This variable holds a number larger than the largest valid
?S: signal number.  This is usually the same as the NSIG macro.
?S:.
?S:sig_size:
?S: This variable contains the number of elements of the sig_name
?S: and sig_num arrays.
?S:.
?C:SIG_NAME:
?C: This symbol contains a list of signal names in order of
?C: signal number. This is intended
?C: to be used as a static array initialization, like this:
?C:  char *sig_name[] = { SIG_NAME };
?C: The signals in the list are separated
 with commas, and each signal
?C: is surrounded by double quotes. There is no leading SIG in the signal
?C: name, i.e. SIGQUIT is known as "QUIT".
?C: Gaps in the signal numbers (up to NSIG) are filled in with NUMnn,
?C: etc., where nn is the actual signal number (e.g. NUM37).
?C: The signal number for sig_name[i] is stored in sig_num[i].
?C: The last element is 0 to terminate the list with a NULL.  This
?C: corresponds to the 0 at the end of the sig_name_init list.
?C: Note that this variable is initialized from the sig_name_init,
?C: not from sig_name (which is unused).
?C:.
?C:SIG_NUM:
?C: This symbol contains a list of signal numbers, in the same order as the
?C: SIG_NAME list. It is suitable for static array initialization, as in:
?C:  int sig_num[] = { SIG_NUM };
?C: The signals in the list are separated with commas, and the indices
?C: within that list and the SIG_NAME list match, so it's easy to compute
?C: the signal name from a number or vice versa at the price of a small
?C: dynamic
```

```
 linear lookup.
?C: Duplicates are allowed, but are moved to the end of the list.
?C: The signal number corresponding to sig_name[i] is sig_number[i].
?C: if (i < NSIG) then sig_number[i] == i.
?C: The last element is 0, corresponding to the 0 at the end of
?C: the sig_name_init list.
?C: Note that this variable is initialized from the sig_num_init,
?C: not from sig_num (which is unused).
?C:.
?C:SIG_COUNT:
?C: This variable contains a number larger than the largest
?C: signal number.  This is usually the same as the NSIG macro.
?C:.
?C:SIG_SIZE:
?C: This variable contains the number of elements of the SIG_NAME
?C: and SIG_NUM arrays, excluding the final NULL entry.
?C:.
?H:#define SIG_NAME $sig_name_init  /**/
?H:#define SIG_NUM  $sig_num_init  /**/
?H:#define SIG_COUNT $sig_count   /**/
?H:#define SIG_SIZE $sig_size   /**/
?H:.
?T:i doinit
?F:!= !signal_cmd
?X: signal.cmd creates a file  signal.lst which has two columns:
?X: NAME  number, e.g.
?X:  HUP 1
?X: The list is
 sorted on signal number, with duplicates moved to
?X: the end..
: generate list of signal names
case "$sig_num_init" in
")
echo " "
case "$sig_name_init" in
") doinit=yes ;;
*)  case "$sig_num_init" in
   "|*,*) doinit=yes ;;
   esac ;;
esac
case "$doinit" in
yes)
 echo "Generating a list of signal names and numbers..." >&4
 . ./signal_cmd
 sig_count=`$awk '/^NSIG/ { printf "%d", $2 }' signal.lst`
 sig_name=`$awk 'BEGIN { printf "ZERO " }
   !/^NSIG/ { printf "%s ", $1 }' signal.lst`
 sig_num=`$awk  'BEGIN { printf "0 " }
```

```
  !/^NSIG/ { printf "%d ", $2 }' signal.lst`
 sig_name_init=`$awk 'BEGIN { printf "\"ZERO\", " }
       !/^NSIG/ { printf "\"%s\", ", $1 }
       END { printf "0\n" }' signal.lst`
 sig_num_init=`$awk  'BEGIN { printf "0, " }
       !/^NSIG/ { printf "%d, ", $2}
       END { printf "0\n"}' signal.lst`
 ;;
esac
echo "The following $sig_count signals are available:"
echo " "
echo $sig_name | $awk \
'BEGIN { linelen = 0 }
{
 for (i = 1; i <= NF; i++) {
  name
 = "SIG" $i " "
  linelen = linelen + length(name)
  if (linelen > 70) {
   printf "\n"
   linelen = length(name)
  }
  printf "%s", name
 }
 printf "\n"
}'
sig_size=`echo $sig_name | awk '{print NF}'`
$rm -f signal signal.c signal.awk signal.lst signal_cmd
;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/sig_name.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_drand48_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_drand48_r drand48_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_stdlib extern_C
?MAKE: -pick add $@ %<
?S:d_drand48_r:
```

```
?S: This variable conditionally defines the HAS_DRAND48_R symbol,
?S: which indicates to the C program that the drand48_r()
?S: routine is available.
?S:.
?S:drand48_r_proto:
?S: This variable encodes the prototype of drand48_r.
?S: It is zero if d_drand48_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_drand48_r
?S: is defined.
?S:.
?C:HAS_DRAND48_R:
?C: This symbol, if defined, indicates that the drand48_r routine
?C: is available to drand48 re-entrantly.
?C:.
?C:DRAND48_R_PROTO:
?C: This
 symbol encodes the prototype of drand48_r.
?C: It is zero if d_drand48_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_drand48_r
?C: is defined.
?C:.
?H:#$d_drand48_r HAS_DRAND48_R /**/
?H:#define DRAND48_R_PROTO $drand48_r_proto /**/
?H:.
?T:try hdrs d_drand48_r_proto
: see if drand48_r exists
set drand48_r d_drand48_r
eval $inlibc
case "$d_drand48_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_stdlib stdlib.h"
 case "$d_drand48_r_proto:$usethreads" in
 ":define") d_drand48_r_proto=define
  set d_drand48_r_proto drand48_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_drand48_r_proto" in
 define)
 case "$drand48_r_proto" in
 "|0) try='int drand48_r(struct drand48_data*, double*);'
 ./protochk "$extern_C $try" $hdrs && drand48_r_proto=I_ST ;;
 esac
 case "$drand48_r_proto" in
 "|0) d_drand48_r=undef
  drand48_r_proto=0
  echo "Disabling drand48_r, cannot determine prototype." >&4 ;;
 * ) case
```

```
 "$drand48_r_proto" in
  REENTRANT_PROTO*) ;;
  *) drand48_r_proto="REENTRANT_PROTO_$drand48_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "drand48_r has no prototype, not using it." >&4 ;;
  esac
  d_drand48_r=undef
  drand48_r_proto=0
  ;;
 esac
 ;;
*) drand48_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_drand48_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extractall.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:00:43  ram
?RCS: patch61: created
?RCS:
?X:
?X: If extraction has been requested, load the configuration file, perform
?X: the extraction and exit.
?X:
?X: This unit was originally a part of Options.U. It had to be removed from
?X: it to prevent a dependency cycle: Extract -> src -> Options -> Extract
?X: The Begin.U unit now requires us before beginning to do anything
?X: interesting, to ensure proper semantics. -- RAM, 15/03/96
?X:
?MAKE:Extractall:
```

```
 Extract Options
?MAKE: -pick wipe $@ %<
: extract files and exit if asked to do so
case "$extractsh" in
true)
?X: Undo the forced silent=true when -S was supplied, by probing realsilent
?X: which was set iff -s was also given. See Options.U for details.
 case "$realsilent" in
 true) ;;
 *) exec 1>&4;;
 esac
 case "$config_sh" in
 ") config_sh='config.sh';;
 esac
 echo " "
 echo "Fetching answers from $config_sh..."
 cd ..
 . $config_sh
 test "$override" && . ./optdef.sh
 echo " "
?X: extract has to be run from the top directory, not within UU.
 . UU/extract
 rm -rf UU
 echo "Extraction done."
 exit 0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Extractall.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: nis.U,v 3.0.1.3 1997/02/28 16:17:38 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: nis.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:17:38  ram
?RCS: patch61: ensure suitable defaults for hostcat and friends
?RCS:
?RCS: Revision 3.0.1.2  1995/03/21  08:48:34  ram
```

```
?RCS: patch52: continued fix for NeXT NIS/NetInfo handling
?RCS:
?RCS: Revision 3.0.1.1  1995/02/15  14:16:23  ram
?RCS: patch51: now correctly handles NeXT using NIS rather than NetInfo
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:passcat
 groupcat hostcat: Myread Oldconfig test contains
?MAKE: -pick add $@ %<
?S:passcat:
?S: This variable contains a command that produces the text of the
?S: /etc/passwd file.  This is normally "cat /etc/passwd", but can be
?S: "ypcat passwd" when NIS is used.
?S: On some systems, such as os390, there may be no equivalent
?S: command, in which case this variable is unset.
?S:.
?S:groupcat:
?S: This variable contains a command that produces the text of the
?S: /etc/group file.  This is normally "cat /etc/group", but can be
?S: "ypcat group" when NIS is used.
?S: On some systems, such as os390, there may be no equivalent
?S: command, in which case this variable is unset.
?S:.
?S:hostcat:
?S: This variable contains a command that produces the text of the
?S: /etc/hosts file.  This is normally "cat /etc/hosts", but can be
?S: "ypcat hosts" when NIS is used.
?S: On some systems, such as os390, there may be no equivalent
?S: command, in which case this variable is unset.
?S:.
:
 see if we have to deal with yellow pages, now NIS.
?X: NeXT gives us some fun here, as always, by having both NIS (former YP)
?X: and NetInfo. But since it has both, it's ok to put the test inside the if.
?X: Contributed by Thomas Neumann <tom@smart.bo.open.de>.
if $test -d /usr/etc/yp || $test -d /etc/yp || $test -d /usr/lib/yp; then
@if passcat || groupcat
 case "$passcat" in
 nidump*) ;;
 *)
  case "$passcat" in
  *ypcat*) dflt=y;;
  ") if $contains '^\+' /etc/passwd >/dev/null 2>&1; then
    dflt=y
   else
    dflt=n
```

```
  fi;;
  *) dflt=n;;
  esac
  echo " "
  rp='Are you getting the passwd file via yellow pages?'
  . ./myread
  case "$ans" in
  y*) passcat='ypcat passwd'
@if groupcat
   echo "(Assuming /etc/group is also distributed.)"
   groupcat='ypcat group'
@end
   ;;
  *) passcat='cat /etc/passwd'
@if groupcat
   echo "(Assuming /etc/group is also local.)"
   groupcat='cat /etc/group'
@end
   ;;
  esac
  ;;
 esac
@end
@if hostcat
 case "$hostcat" in
 nidump*) ;;
 *)
  case
 "$hostcat" in
  *ypcat*) dflt=y;;
  ") if $contains '^\+' /etc/passwd >/dev/null 2>&1; then
    dflt=y
   else
    dflt=n
   fi;;
  *) dflt=n;;
  esac
  echo " "
  rp='Are you getting the hosts file via yellow pages?'
  . ./myread
  case "$ans" in
  y*) hostcat='ypcat hosts';;
  *) hostcat='cat /etc/hosts';;
  esac
  ;;
 esac
@end
fi
```

```
?X: Ensure suitable default -- Manoj Srivastava
case "$hostcat" in
") test -f /etc/hosts && hostcat='cat /etc/hosts';;
esac
case "$groupcat" in
") test -f /etc/group && groupcat='cat /etc/group';;
esac
case "$passcat" in
") test -f /etc/passwd && passcat='cat /etc/passwd';;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/nis.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: End.U,v 3.0 1993/08/18 12:04:51 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: End.U,v $
?RCS: Revision 3.0  1993/08/18  12:04:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit serves as the goal which forces make to choose all the units that
?X: ask questions.  The $W on the ?MAKE: line is the list of all symbols wanted.
?X: To force any unit to be included, copy this unit to your private U directory
?X: and add the name of the unit desired to the ?MAKE: dependency line.
?X:
?MAKE:End perllibs: $W cppstdin gzip zip
 libs usedl osname osvers
?MAKE: -pick add $@ %<
?S:perllibs:
?S: The list of libraries needed by Perl only (any libraries needed
?S: by extensions only will by dropped, if using dynamic loading).
?S:.
?INIT:perllibs="
?LINT:use $W
?LINT:use gzip zip
?LINT:change cppstdin
: Remove libraries needed only for extensions
```

```
: The appropriate ext/Foo/Makefile.PL will add them back in, if necessary.
: The exception is SunOS 4.x, which needs them.
case "${osname}X${osvers}" in
sunos*X4*)
   perllibs="$libs"
   ;;
*) case "$usedl" in
   $define|true|[yY]*)
     set X `echo " $libs " | sed -e 's@ -lndbm @ @' -e 's@ -lgdbm @ @' -e 's@ -lgdbm_compat @ @' -e 's@ -ldbm @
@' -e 's@ -ldb @ @'`
     shift
     perllibs="$*"
     ;;
   *) perllibs="$libs"
     ;;
   esac
   ;;
esac

?X: If the user has the cppstdin wrapper, perl.c will try to call
?X: CPPSTDIN, but that will point to a location in the build
?X: directory, not the installed version!.  Here, we'll just strip the
?X: name down to 'cppstdin',
 and rely on the fact that perl.c will
?X: then call SCRIPTDIR/cppstdin, but local things like 'make depend'
?X: will continue to work.
: Remove build directory name from cppstdin so it can be used from
: either the present location or the final installed location.
echo " "
: Get out of the UU directory to get correct path name.
cd ..
case "$cppstdin" in
`pwd`/cppstdin)
 echo "Stripping down cppstdin path name"
 cppstdin=cppstdin
 ;;
esac
cd UU

: end of configuration questions
echo " "
echo "End of configuration questions."
echo " "
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/End.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: cf_name.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: cf_name.U,v $
?RCS: Revision 3.0.1.2  1994/05/06  14:29:36  ram
?RCS: patch23: fixed user name computation from /etc/passwd in bsd systems
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:05:11  ram
?RCS: patch16: created
?RCS:
?RCS:
?MAKE:+cf_name: cf_by passcat Filexp nametype cat test
?MAKE: -pick add $@ %<
?S:cf_name:
?S: Full name of the person who ran the Configure script and
 answered the
?S: questions. This can be used by units that require the user's full name.
?S: This variable is for internal use only.
?S:.
?T:xxx fn NAME
: figure out their full name
case "$NAME" in
") case "$nametype" in
 other)
  fn=`./filexp ~/.fullname`
  xxx=usg
  $test -f $fn && xxx=other
  ;;
 *)
  xxx="$nametype"
  ;;
 esac

 case "$xxx" in
 bsd)
  cf_name=`$passcat | grep "^$cf_by:" | \
   sed -e 's/^[^:]*:[^:]*:[^:]*:[^:]*:\([^:]*\):.*/\1/' \
```

```
  -e 's/,.*//'`
  ;;
  usg)
  cf_name=`$passcat | grep "^$cf_by:" | \
  sed -e 's/^[^:]*:[^:]*:[^:]*:[^:]*:\([^:]*\):.*/\1/' \
  -e 's/[^-]*-\(.*\)(.*)/\1/'`
  ;;
 *)
  cf_name=`$cat $fn`
  ;;
 esac
 ;;
*)
 cf_name="$NAME"
 ;;
esac
?X:
?X: In the original unit, Graham asked for the user name, in case the above
?X: code was unable to figure it out correctly. Since now cf_name has been
?X: made an internal variable only (i.e. it is not saved in config.sh), letting
?X: the user override the computed default each time would be a pain.
?X:
 Therefore, I have decided to trust the above code to get it right, and for
?X: those rare cases where it will fail, too bad :-) --RAM.
?X:
echo " "
echo "Pleased to meet you, $cf_name."
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/cf_name.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_wait4.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_wait4.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_wait4: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_wait4:
?S: This variable conditionally defines the HAS_WAIT4 symbol, which
?S: indicates the wait4() routine is available.
?S:.
?C:HAS_WAIT4 (WAIT4):
?C: This symbol, if defined, indicates that wait4() exists.
?C:.
?H:#$d_wait4 HAS_WAIT4 /**/
?H:.
?LINT:set d_wait4
: see if there is a wait4
set
 wait4 d_wait4
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_wait4.U
No license file was found, but licenses were detected in source scan.

```
case $CONFIG in
")
 if test -f config.sh; then TOP=.;
 elif test -f ../config.sh; then TOP=..;
 elif test -f ../../config.sh; then TOP=../..;
 elif test -f ../../../config.sh; then TOP=../../..;
 elif test -f ../../../../config.sh; then TOP=../../../..;
 else
  echo "Can't find config.sh."; exit 1
 fi
 . $TOP/config.sh
 ;;
esac
case "$0" in
*/*) cd `expr X$0 : 'X\(.*\)/'` ;;
esac
echo "Extracting makedepend (with variable substitutions)"
$spitshell >makedepend <<!GROK!THIS!
$startsh
# $Id: makedepend.sh,v 3.0.1.1 1994/01/24 14:00:05 ram Exp ram $
#
#  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
#
#  You may redistribute only under the terms of the Artistic Licence,
#  as specified in the README file that comes with the distribution.
#  You may reuse parts of this distribution only within the terms of
#  that same Artistic Licence; a copy of which may be found at the root
```

```
#  of the source tree for dist 4.0.
#
#
 Original Author: Larry Wall <lwall@netlabs.com>
#
# $Log: makedepend.sh,v $
# Revision 3.0.1.1  1994/01/24  14:00:05  ram
# patch16: changed top ln-style config.sh lookup into test-style one
#
# Revision 3.0  1993/08/18  12:04:37  ram
# Baseline for dist 3.0 netwide release.
#

export PATH || (echo "OOPS, this isn't sh.  Desperation time.  I will feed myself to sh."; sh \$0; kill \$\$)

cat='$cat'
cppflags='$cppflags'
cp='$cp'
cpp='$cppstdin'
echo='$echo'
egrep='$egrep'
expr='$expr'
mv='$mv'
rm='$rm'
sed='$sed'
sort='$sort'
test='$test'
tr='$tr'
uniq='$uniq'
!GROK!THIS!

$spitshell >>makedepend <<'!NO!SUBS!'

$cat /dev/null >.deptmp
$rm -f *.c.c c/*.c.c
if test -f Makefile; then
   mf=Makefile
else
   mf=makefile
fi
if test -f $mf; then
   defrule=`<$mf sed -n  \
 -e '/^\.c\.o:.*;/{'  \
 -e    's/\$\*\.c//'  \
 -e    's/^[^;]*;[  ]*//p' \
 -e    q    \
 -e '}'    \
 -e '/^\.c\.o: *$/{'  \
```

```
 -e    N    \
 -e    's/\$\*\.c//'  \
 -e    's/^.*\n[   ]*//p'  \
 -e    q    \
 -e '}'`
fi
case
 "$defrule" in
") defrule='$(CC) -c $(CFLAGS)' ;;
esac

make clist || ($echo "Searching for .c files..."; \
 $echo *.c | $tr ' ' '\012' | $egrep -v '\*' >.clist)
gotnone=true
for file in `$cat .clist`; do
# for file in `cat /dev/null`; do
   case "$file" in
   *.c) filebase=`basename $file .c` ;;
   *.y) filebase=`basename $file .c` ;;
   ")  continue ;;
   esac
   gotnone=false
   $echo "Finding dependencies for $filebase.o."
   $sed -n <$file >$file.c \
 -e "/^${filebase}_init(/q" \
 -e '/^#/{' \
 -e 's|/\*.*$||' \
 -e 's|\\$||' \
 -e p \
 -e '}'
   $cpp -I/usr/local/include -I. $cppflags $file.c | \
   $sed \
 -e '/^# *[0-9]/!d' \
 -e 's/^.*"\(.*\)".*$/'$filebase'.o: \1/' \
 -e 's|: \./|: |' \
 -e 's|\.c\.c|.c|' | \
   $uniq | $sort | $uniq >> .deptmp
done

$sed <Makefile >Makefile.new -e '1,/^# AUTOMATICALLY/!d'

make shlist || ($echo "Searching for .SH files..."; \
 $echo *.SH | $tr ' ' '\012' | $egrep -v '\*' >.shlist)
if $gotnone || $test -s .deptmp; then

  for file in `cat .shlist`; do
 $echo `$expr X$file : 'X\(.*\).SH`: $file config.sh \; \
     /bin/sh $file >> .deptmp
```

```
  done
  $echo "Updating Makefile..."
  $echo "# If this runs make out of memory, delete /usr/include lines." \
 >> Makefile.new
  $sed 's|^\(.*\.o:\) *\(.*/.*\.c\) *$|\1 \2; "'$defrule \2|" .deptmp \
    >>Makefile.new
else
  make hlist || ($echo "Searching for .h files..."; \
 $echo *.h | $tr ' ' '\012' | $egrep -v '\*' >.hlist)
  $echo "You don't seem to have a proper C preprocessor.  Using grep instead."
  $egrep '^#include ' `cat .clist` `cat .hlist`  >.deptmp
  $echo "Updating Makefile..."
  <.clist $sed -n       \
 -e '/\//{'       \
 -e   's|^\(.*\)/\(.*\)\.c|\2.o: \1/\2.c; "'$defrule \1/\2.c|p" \
 -e   d        \
 -e '}'        \
 -e 's|^\(.*\)\.c|\1.o: \1.c|p' >> Makefile.new
  <.hlist $sed -n 's|\(.*/\)\(.*\)|s= \2= \1\2=|p' >.hsed
  <.deptmp $sed -n 's|c:#include "\(.*\)".*$|o: \1|p' | \
    $sed 's|^[^;]*/||' | \
    $sed -f
 .hsed >> Makefile.new
  <.deptmp $sed -n 's|c:#include <\(.*\)>.*$|o: /usr/include/\1|p' \
    >> Makefile.new
  <.deptmp $sed -n 's|h:#include "\(.*\)".*$|h: \1|p' | \
    $sed -f .hsed >> Makefile.new
  <.deptmp $sed -n 's|h:#include <\(.*\)>.*$|h: /usr/include/\1|p' \
    >> Makefile.new
  for file in `$cat .shlist`; do
 $echo `$expr X$file : 'X\(.*\).SH`: $file config.sh \; \
   /bin/sh $file >> Makefile.new
  done
fi
$rm -f Makefile.old
$cp Makefile Makefile.old
$cp Makefile.new Makefile
$rm Makefile.new
$echo "# WARNING: Put nothing here or make depend will gobble it up!" >> Makefile
$rm -f .deptmp `sed 's/\.c/.c.c/' .clist` .shlist .clist .hlist .hsed

!NO!SUBS!
$eunicefix makedepend
chmod +x makedepend
case `pwd` in
*SH)
  $rm -f ../makedepend
  ln makedepend ../makedepend
```

```
  ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/makedepend.SH
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_expm1: Inlibc
?MAKE: -pick add $@ %<
?S:d_expm1:
?S: This variable conditionally defines the HAS_EXPM1 symbol, which
?S: indicates to the C program that the expm1() routine is available.
?S:.
?C:HAS_EXPM1:
?C: This symbol, if defined, indicates that the expm1 routine is
?C: available to do the exp(x) - 1 when x is near 1 function.
?C:.
?H:#$d_expm1 HAS_EXPM1  /**/
?H:.
?LINT:set d_expm1
: see if expm1 exists
set expm1 d_expm1
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_expm1.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_system.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_system.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_system: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_system:
?S: This variable conditionally defines HAS_SYSTEM if system() is
?S: available to issue a shell command.
?S:.
?C:HAS_SYSTEM (SYSTEM):
?C: This symbol, if defined, indicates that the system routine is
?C: available to issue a shell command.
?C:.
?H:#$d_system HAS_SYSTEM /**/
?H:.
?LINT:set
 d_system
: see if system exists
set system d_system
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_system.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: longsize.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: longsize.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:09:35  ram
?RCS: patch61: code moved to intsize.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:24:31  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: 'longsize' is now defined within intsize.U
?X:
?LINT: empty
```

Found in path(s):

* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/longsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:Devel usedevel: Myread rsrc package
?MAKE: -pick wipe $@ %<
?T:xversion
?X: waiver of rights
?S:usedevel:
?S: This variable indicates that Perl was configured with development
?S: features enabled.  This should not be done for production builds.
?S:.
?C:PERL_USE_DEVEL:
?C: This symbol, if defined, indicates that Perl was configured with
?C: -Dusedevel, to enable development features.  This should not be
?C: done for production builds.
?C:.
?H:#$usedevel PERL_USE_DEVEL  /**/
?H:.
?LINT:extern versionONLY
?LINT:extern
 installusrbinperl
?LINT:change versionONLY
?LINT:change installusrbinperl
: See if we are using a devel version and want that
xversion=`awk '/define[  ]+PERL_VERSION/ {print $3}' $rsrc/patchlevel.h`
case "$usedevel" in
$define|true|[yY]*)
   usedevel="$define" ;;
*) case "$xversion" in
  *[13579])
 cat >&4 <<EOH
*** WHOA THERE!!! ***

   This is an UNSTABLE DEVELOPMENT release.
   The version of this $package distribution is $xversion, that is, odd,
   (as opposed to even) and that signifies a development release.
   If you want a maintenance release, you want an even-numbered version.
```

```
   Do ***NOT*** install this into production use.
   Data corruption and crashes are possible.

   It is most seriously suggested that you do not continue any further
   unless you want to help in developing and debugging Perl.

   If you *still* want to build perl, you can answer 'y' now,
   or pass -Dusedevel to Configure.

EOH
 rp='Do you really want to continue?'
 dflt='n'
 . ./myread
 case
 "$ans" in
 [yY]) echo >&4 "Okay, continuing."
       usedevel="$define" ;;
 *) echo >&4 "Okay, bye."
    exit 1
    ;;
 esac
 ;;
   esac
   usedevel="$undef"
   ;;
esac
case "$usedevel" in
$define|true|[yY]*)
 case "$versiononly" in
 ") versiononly="$define" ;;
 esac
 case "$installusrbinperl" in
 ") installusrbinperl="$undef" ;;
 esac
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/Devel.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endnent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_endnent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_endnent: Inlibc
?MAKE: -pick add $@ %<
?S:d_endnent:
?S: This variable conditionally defines HAS_ENDNETENT if endnetent() is
?S: available to close whatever was being used for network queries.
?S:.
?C:HAS_ENDNETENT:
?C: This symbol, if defined, indicates that the endnetent() routine is
?C: available to close whatever was being used for network
 queries.
?C:.
?H:#$d_endnent HAS_ENDNETENT  /**/
?H:.
?LINT:set d_endnent
: see if endnetent exists
set endnetent d_endnent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_endnent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: locdist.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: locdist.U,v $
?RCS: Revision 3.0.1.1  1994/05/06  15:09:20  ram
?RCS: patch23: added support for multi-state regions (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:06  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?MAKE:locdist orgdist citydist statedist multistatedist cntrydist contdist: \
 test newslibexp cat Myread Oldconfig
?MAKE: -pick add $@ %<
?S:locdist:
?S: This variable contains the eventual value of the LOCDIST symbol,
?S: which
 is the local organization's distribution name for news.
?S:.
?S:orgdist:
?S: This variable contains the eventual value of the ORGDIST symbol,
?S: which is the organization's distribution name for news.
?S:.
?S:citydist:
?S: This variable contains the eventual value of the CITYDIST symbol,
?S: which is the city's distribution name for news.
?S:.
?S:statedist:
?S: This variable contains the eventual value of the STATEDIST symbol,
?S: which is the state's or province's distribution name for news.
?S:.
?S:multistatedist:
?S: This variable contains the eventual value of the MULTISTATEDIST symbol,
?S: which is the news distribution code for multi-state region.
?S:.
?S:cntrydist:
?S: This variable contains the eventual value of the CNTRYDIST symbol,
?S: which is the country's distribution name for news.
?S:.
?S:contdist:
?S: This variable contains the eventual value of the CONTDIST symbol,
?S: which is the continent's distribution name for news.
?S:.
?C:LOCDIST:
?C: This symbol contains the
 distribution name for the news system that
?C: restricts article distribution to the local organization.
?C:.
?C:ORGDIST:
?C: This symbol contains the distribution name for the news system that
?C: restricts article distribution to the organization.
?C:.
?C:CITYDIST:
?C: This symbol contains the distribution name for the news system that
?C: restricts article distribution to the city.
?C:.
?C:STATEDIST:
?C: This symbol contains the distribution name for the news system that
```

```
?C: restricts article distribution to the state or province.
?C:.
?C:MULTISTATEDIST:
?C: This symbol contains the distribution name for the news system that
?C: restricts article distribution to a multi-state region.
?C:.
?C:CNTRYDIST:
?C: This symbol contains the distribution name for the news system that
?C: restricts article distribution to the country.
?C:.
?C:CONTDIST:
?C: This symbol contains the distribution name for the news system that
?C: restricts article distribution to the continent.
?C:.
?H:#define LOCDIST
 "$locdist"  /**/
?H:#define ORGDIST "$orgdist"  /**/
?H:#define CITYDIST "$citydist"  /**/
?H:#define MULTISTATEDIST "$multistatedist" /**/
?H:#define STATEDIST "$statedist"  /**/
?H:#define CNTRYDIST "$cntrydist"  /**/
?H:#define CONTDIST "$contdist"  /**/
?H:.
: get the local distributions
$cat <<'EOH'

Distribution groups are the things you use on the Distribution line to limit
where an article will go to.  You are likely to be a member of several
distribution groups, such as organization, city, state, province, country,
continent, etc.  For example, Los Angeles has the distribution code "la",
New Jersey has the code "nj", and Europe has the code "eunet".

The categories you will be asked are:

local organization (Could be just one machine or a cluster or an office)
organization  att, dec, kgb, ...
city   la, ny, mosc, ...
state/province  ca, nj, bc, ...
multi-state region pnw, ne, ...
country   usa, can, rok, whatever
continent  na (North America), asia, etc.

EOH
if $test
 -f $newslibexp/distributions; then
 case "$silent" in
 true) ;;
 *) dflt='Hit return to continue'
```

```
  rp="
  . ./myread
  ;;
 esac
 echo "Here is your distributions file:" >&4
 echo " " >&4
 $cat >&4 $newslibexp/distributions
 echo " " >&4
fi
echo "Use 'none' for any distributions you don't have."
echo " "
case "$locdist" in
") dflt="none";;
*)  dflt="$locdist";;
esac
rp="What is the distribution code for your local organization?"
. ./myread
locdist="$ans"
case "$orgdist" in
") dflt="none";;
*)  dflt="$orgdist";;
esac
rp="What is the distribution code for your organization?"
. ./myread
orgdist="$ans"
case "$citydist" in
") dflt="none";;
*)  dflt="$citydist";;
esac
rp="What is the distribution code for your city?"
. ./myread
citydist="$ans"
case "$statedist" in
") dflt="none";;
*)  dflt="$statedist";;
esac
rp="What is the distribution code for your state/province?"
. ./myread
statedist="$ans"
case "$multistatedist" in
") dflt="none";;
*) dflt="$multistatedist";;
esac
rp="What is the
 distribution code for your multi-state region?"
. ./myread
multistatedist="$ans"
case "$cntrydist" in
```

```
") dflt="none";;
*)  dflt="$cntrydist";;
esac
rp="What is the distribution code for your country?"
. ./myread
cntrydist="$ans"
case "$contdist" in
") dflt="none";;
*)  dflt="$contdist";;
esac
rp="What is the distribution code for your continent?"
. ./myread
contdist="$ans"
$cat <<'EOM'

If you have any other distribution groups you will need to edit Pnews
and newsetup to add them.
EOM
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/locdist.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strstr.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strstr.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:37  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strstr: Inlibc
?MAKE: -pick add $@ %<
?S:d_strstr:
?S: This variable conditionally defines HAS_STRSTR if strstr() is
?S: available to find substrings.
?S:.
?C:HAS_STRSTR (STRSTR):
?C: This symbol, if defined, indicates that the strstr routine is
?C: available to find substrings.
?C:.
```

```
?H:#$d_strstr HAS_STRSTR /**/
?H:.
?LINT:set d_strstr
:
 see if strstr exists
set strstr d_strstr
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strstr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: MailList.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: MailList.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:01:49  ram
?RCS: patch16: created
?RCS:
?RCS:
?X:
?X: This unit offers the user the option of subscribing to the mailing
?X: list. To force inclusion of this unit, you must add it's name to the
?X: dependancies on the MAKE line in your private copy of End.U.
?X: The address of the mailing list server must be set via a "list_request=..."
?X:
 entry in the .package file. This is usually done by running packinit and
?X: answering the proper questions.
?X:
?MAKE:MailList: cat mailer package Myread cf_name cf_email
?MAKE: -pick wipe $@ %<
?T:list_request list_sub list_unsub list_name
?X:
?X: The cf_name dependency is used through list_sub when the mailing list
?X: manager happens to be listserv, whereas cf_email is used whith majordomo
?X: or when the mailing list request address is scanned by a human. Since
?X: they do not appear within the unit itself, we need a lint hint.
?X:
```

```
?LINT:use cf_name cf_email
: offer to join the mailing list
list_request='<$list_request>'
list_sub="<$list_sub>"
list_unsub="<$list_unsub>"
list_name="<$list_name>"
$cat <<EOM

There is a mailing list for discussion about $package and related issues.
This is the preferred place to ask questions about the program and discuss
modifications and additions with the author and other users.  If you are able
to send mail to the Internet, you
 are encouraged to subscribe.  You need only
ever subscribe once, and you can unsubscribe automatically at any time in the
future.  If you have already subscribed and you wish to unsubscribe now, you
may do so by answering "unsubscribe".  Answer "subscribe" to subscribe to the
list.

EOM
rp="Subscribe to or unsubscribe from the $list_name mailing list?"
dflt=neither
. ./myread
case "$ans" in
[sS]*) $cat <<EOM

You will be sent a message from the list server to let you know when your
subscription has been successful and telling you how to submit articles and
how to unsubscribe again when necessary. You may also unsubscribe by running
this script again and asking it to do so for you.

EOM
 echo "Sending mail to subscribe you to the $list_name list..." >&4
 $mailer $list_request <<EOM >/dev/null 2>&1
Precedence: junk
To: $list_request

$list_sub
EOM
 ;;
[uU]*) echo "Sending mail to unsubscribe you from the $list_name list..." >&4
 $mailer $list_request <<EOM >/dev/null 2>&1
Precedence: junk
To:
 $list_request

$list_unsub
EOM
 ;;
```

```
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/MailList.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_table.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_table.U,v $
?RCS: Revision 3.0.1.2  1993/11/10  17:34:14  ram
?RCS: patch14: wrongly mentionned an obsolete symbol
?RCS:
?RCS: Revision 3.0.1.1  1993/10/16  13:49:29  ram
?RCS: patch12: created
?RCS:
?MAKE:d_table: Inlibc
?MAKE: -pick add $@ %<
?S:d_table:
?S: This variable conditionally defines HAS_TABLE if table() is
?S: available to examine/update elements from a system table.
?S:.
?C:HAS_TABLE:
?C: This symbol, if defined, indicates that the OSF/1
 table() system
?C: call is available to examine/update items from a system table.
?C:.
?H:#$d_table HAS_TABLE /**/
?H:.
?LINT:set d_table
: see if table exists
set table d_table
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_table.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_stdlib.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_stdlib.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_stdlib: Inhdr
?MAKE: -pick add $@ %<
?S:i_stdlib:
?S: This variable conditionally defines the I_STDLIB symbol, which
?S: indicates to the C program that <stdlib.h> exists and should
?S: be included.
?S:.
?C:I_STDLIB:
?C: This symbol, if defined, indicates that <stdlib.h> exists and should
?C: be included.
?C:.
?H:#$i_stdlib I_STDLIB  /**/
?H:.
?LINT:set
 i_stdlib
: see if stdlib is available
set stdlib.h i_stdlib
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_stdlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sitearch.U,v 3.1 1999/07/08 18:32:29 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
```

```
?RCS: $Log: sitearch.U,v $
?RCS: Revision 3.1  1999/07/08 18:32:29  doughera
?RCS: Updated for perl5.005_5x
?RCS:
?RCS: Revision 3.0.1.1  1997/02/28  16:21:30  ram
?RCS: patch61: created
?RCS:
?MAKE:sitearch sitearchexp installsitearch d_sitearch: cat sed Getfile \
 Oldconfig Setprefixvar Prefixit test archname sitelib
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitearch=''
?S:sitearch:
?S: This variable contains the eventual
 value of the SITEARCH symbol,
?S: which is the name of the private library for this package.  It may
?S: have a ~ on the front. It is up to the makefile to eventually create
?S: this directory while performing installation (with ~ substitution).
?S: The standard distribution will put nothing in this directory.
?S: After perl has been installed, users may install their own local
?S: architecture-dependent modules in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitearchexp=''
?S:sitearchexp:
?S: This variable is the ~name expanded version of sitearch, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installsitearch=''
?S:installsitearch:
?S: This variable is really the same as sitearchexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?D:d_sitearch=''
?S:d_sitearch:
?S: This variable conditionally defines SITEARCH to hold the
 pathname
?S: of architecture-dependent library files for $package.  If
?S: $sitearch is the same as $archlib, then this is set to undef.
?S:.
?C:SITEARCH:
?C: This symbol contains the name of the private library for this package.
?C: The library is private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.  The program
?C: should be prepared to do ~ expansion.
?C: The standard distribution will put nothing in this directory.
```

```
?C: After perl has been installed, users may install their own local
?C: architecture-dependent modules in this directory with
?C:  MakeMaker Makefile.PL
?C: or equivalent.  See INSTALL for details.
?C:.
?C:SITEARCH_EXP:
?C: This symbol contains the ~name expanded version of SITEARCH, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#$d_sitearch SITEARCH "$sitearch"  /**/
?H:#$d_sitearch SITEARCH_EXP "$sitearchexp"  /**/
?H:.
?LINT:change prefixvar
?LINT:set installsitearch
?LINT:set
 sitearch
?LINT:set sitearchexp
: determine where site specific architecture-dependent libraries go.
: sitelib  default is /usr/local/lib/perl5/site_perl/$version
: sitearch default is /usr/local/lib/perl5/site_perl/$version/$archname
: sitelib may have an optional trailing /share.
case "$sitearch" in
") dflt=`echo $sitelib | $sed 's,/share$,,'`
 dflt="$dflt/$archname"
 ;;
*) dflt="$sitearch"
 ;;
esac
set sitearch sitearch none
eval $prefixit
$cat <<EOM

The installation process will also create a directory for
architecture-dependent site-specific extensions and modules.

EOM
fn=d~+
rp='Pathname for the site-specific architecture-dependent library files?'
. ./getfile
prefixvar=sitearch
. ./setprefixvar
if $test X"$sitearch" = X"$sitelib"; then
 d_sitearch="$undef"
else
 d_sitearch="$define"
fi

Found in path(s):
```

* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/sitearch.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_memccpy.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_memccpy.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_memccpy: Inlibc
?MAKE: -pick add $@ %<
?S:d_memccpy:
?S: This variable conditionally defines the HAS_MEMCCPY symbol, which
?S: indicates to the C program that the memccpy() routine is available
?S: to copy a character into a block of memory.
?S:.
?C:HAS_MEMCCPY (MEMCCPY):
?C: This symbol, if defined, indicates that the memccpy routine
 is available
?C: to copy a character into a block of memory.  Otherwise you should
?C: roll your own.
?C:.
?H:#$d_memccpy HAS_MEMCCPY  /**/
?H:.
?LINT:set d_memccpy
: see if memccpy exists
set memccpy d_memccpy
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_memccpy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_NeWS.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_NeWS.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:39  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_news d_news0 d_newshome d_textcan: test rm Myread Getfile
?MAKE: -pick add $@ %<
?S:d_news:
?S: Set if running NeWS 1.1
?S:.
?S:d_news0:
?S: Set if running NeWS 1.0
?S:.
?S:d_newshome:
?S: Path to the top directory of the NeWS structure.
?S:.
?S:d_textcan:
?S: Path to where the textcan.ps stuff is...
?S:.
?C:HAS_NEWS1_1 (NEWS1_1):
?C: This
 symbol defined if running NeWS 1.1.
?C:.
?C:HAS_NEWS1_0 (NEWS1_0):
?C: This symbol defined if running NeWS 1.0.
?C:.
?C:TEXTCAN:
?C: Tells path to where the textcan.ps stuff is...
?C:.
?H:#$d_news HAS_NEWS1_1     /**/
?H:#$d_news0 HAS_NEWS1_0     /**/
?H:#define TEXTCAN $d_textcan /**/
?H:.
?INIT:: default path for NeWS
?INIT:d_newshome="/usr/NeWS"
?INIT:
: Check to see what version of NeWS is being run?
cd ..
echo " "
echo "Now for the interesting stuff... Lets see what kind of NeWS"
echo "they grow round here...."
echo " "
dflt='y'
if $test -d $d_newshome; then
```

```
 d_newshome=`(cd $d_newshome ; /bin/pwd)`
 echo "Ah...found myself a NeWS in $d_newshome..."
 dflt='y'
 rp="Is this the NeWS you want your children to grow up with?"
 . UU/myread
fi
while $test $ans = "n"; do
dflt=$d_newshome
fn=d
rp="Path to NeWS you want:"
. UU/getfile
d_newshome=$ans

echo " "
if $test ! -d $d_newshome/lib; then
 echo "ARG!  No lib directory in $d_newshome!!!"
 : heavy medicine.  I wonder what the disease
 is...
 $rm -f kit*isdone
 $rm -rf UU
 : bye bye
 set -t; echo "Sorry... no NeWS is bad news..."
fi

if $test -r $d_newshome/lib/NeWS/colors.ps ; then
 echo 'Ahh... your running NeWS 1.1!  Boy... that makes stuff easy....'
 echo " "
 d_news="$define"
 d_news0="$undef"
 if $test -r $d_newshome/lib/NeWS/textcan.ps; then
  d_textcan=$d_newshome/lib/NeWS
  echo "The textcan.ps stuff seems to be in : $d_textcan"
 else
  d_textcan=$d_newshome/clientsrc/client/nterm
  if $test ! -r $d_textcan/textcan.ps; then
   d_news="$undef"
   d_news0="$define"
   echo 'Hmm... must have been fooled... gotta be NeWS 1.1 beta!'
  else
   echo "The textcan.ps stuff seems to be in : $d_textcan"
  fi
 fi
else
 echo 'snif... snif... I smell the dilapidated smell of NeWS 1.0..'
 echo 'Some things will not work under NeWS 1.0...'
 d_news="$undef"
 d_news0="$define"
fi
```

cd UU

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_NeWS.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sunmath.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sunmath: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sunmath:
?S: This variable conditionally defines the I_SUNMATH symbol, and indicates
?S: whether a C program should include <sunmath.h>.
?S:.
?C:I_SUNMATH:
?C: This symbol, if defined, indicates that <sunmath.h> exists and
?C: should be included.
?C:.
?H:#$i_sunmath I_SUNMATH  /**/
?H:.
?LINT:set i_sunmath
: see if this is a sunmath.h system
set sunmath.h i_sunmath
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sunmath.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pidcheck.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_pidcheck.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:37:55  ram
```

```
?RCS: patch61: replaced .o with $_o all over the place
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_pidcheck: cat rm +cc _o
?MAKE: -pick add $@ %<
?S:d_pidcheck:
?S: This variable conditionally defines the variable PIDCHECK
?S: which indicates that kill(pid, 0) will check for an
 active pid.
?S:.
?C:PIDCHECK:
?C: This symbol, if defined, means that the kill(pid, 0) will
?C: check for an active pid (i.e. the kernel will run all the
?C: necessary pid checks, but no signal is actually sent).
?C:.
?H:#$d_pidcheck PIDCHECK  /**/
?H:.
?F:!try
: check for "kill(pid, 0)"
echo " "
case "$d_pidcheck" in
"$define")
echo "I already know your system supports kill(pid, 0) for pid checks." >&4
 ;;
"$undef")
echo "We both know your system does not support signal #0 for pid checks." >&4
 ;;
*)
 echo "Checking to see if kill(pid, 0) works..." >&4
 $cat >try.c <<'EOCP'
int main()
 {
 int pid, status0, status9;

 if ((pid = fork()) == 0)
  {
  sleep(30);
  exit(1);
  }
 status0 = kill(pid, 0);
 status9 = kill(pid, 9);
 exit(status0 == status9);
 }
EOCP
 if $cc -o try try.c >/dev/null 2>&1 ; then
```

```
  if ./try >/dev/null 2>&1 ; then
   echo "Yes, it does marvels."
   d_pidcheck="$undef"
  else
   d_pidcheck="$define"
   echo "No, it doesn't."
  fi
 else
  echo "(I was unable to compile
 the test program.)"
  echo "Your system does not appear to support kill(pid, 0)."
  d_pidcheck="$undef"
 fi
 $rm -f try.c try$_o try
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_pidcheck.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_stat.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
?RCS: $Log: d_stat.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:28  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_stat: Inlibc
?MAKE: -pick add $@ %<
?S:d_stat:
?S: This variable conditionally defines HAS_STAT if stat() is
?S: available to get file status.
?S:.
?C:HAS_STAT (STAT):
?C: This symbol, if defined, indicates that the stat routine is
?C: available to get file status.
?C:.
?H:#$d_stat HAS_STAT /**/
?H:.
```

```
?LINT:set d_stat
: see if stat exists
set
 stat d_stat
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_stat.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_voidsig.U,v $
?RCS: Revision 3.0.1.3  1995/05/12  12:12:46  ram
?RCS: patch54: made cppflags dependency optional
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:20:35  ram
?RCS: patch32: now sets signal_t only once d_voidsig is known (WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:59:54  ram
?RCS: patch30: now properly sets signal_t when re-using previous value
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_voidsig signal_t: rm contains
 cppstdin cppminus +cppflags test Myread \
 Oldconfig Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_voidsig:
?S: This variable conditionally defines VOIDSIG if this system
?S: declares "void (*signal(...))()" in signal.h.  The old way was to
?S: declare it as "int (*signal(...))()".
?S:.
?S:signal_t:
?S: This variable holds the type of the signal handler (void or int).
?S:.
?C:VOIDSIG:
?C: This symbol is defined if this system declares "void (*signal(...))()" in
```

```
?C: signal.h.  The old way was to declare it as "int (*signal(...))()".  It
?C: is up to the package author to declare things correctly based on the
?C: symbol.
?C:.
?C:Signal_t (SIGNAL_T):
?C: This symbol's value is either "void" or "int", corresponding to the
?C: appropriate return type of a signal handler.  Thus, you can declare
?C: a signal handler using "Signal_t (*handler)()", and define the
?C: handler using "Signal_t handler(sig)".
?C:.
?H:#$d_voidsig VOIDSIG  /**/
?H:#define Signal_t $signal_t /* Signal handler's return
 type */
?H:.
?T:xxx
?LINT:set d_voidsig
: see if signal is declared as pointer to function returning int or void
echo " "
xxx=`./findhdr signal.h`
$test "$xxx" && $cppstdin $cppminus $cppflags < $xxx >$$.tmp 2>/dev/null
if $contains 'int.*\*[  ]*signal' $$.tmp >/dev/null 2>&1 ; then
 echo "You have int (*signal())() instead of void." >&4
 val="$undef"
elif $contains 'void.*\*[  ]*signal' $$.tmp >/dev/null 2>&1 ; then
 echo "You have void (*signal())() instead of int." >&4
 val="$define"
elif $contains 'extern[  ]*[(\*]*signal' $$.tmp >/dev/null 2>&1 ; then
 echo "You have int (*signal())() instead of void." >&4
 val="$undef"
else
 case "$d_voidsig" in
 ")
 echo "I can't determine whether signal handler returns void or int..." >&4
  dflt=void
  rp="What type does your signal handler return?"
  . ./myread
  case "$ans" in
  v*) val="$define";;
  *) val="$undef";;
  esac;;
 "$define")
  echo "As you already told me, signal handler returns void." >&4;;
 *)
  echo "As you already told
 me, signal handler returns int." >&4;;
 esac
fi
set d_voidsig
```

```
eval $setvar
case "$d_voidsig" in
"$define") signal_t="void";;
*) signal_t="int";;
esac
$rm -f $$.tmp
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_voidsig.U
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```
?RCS: $Id: modetype.U,v 3.0.1.1 1994/10/29 16:25:07 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: modetype.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:25:07  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:modetype: Myread Typedef
?MAKE: -pick add $@ %<
?S:modetype:
?S: This variable defines modetype to be something like mode_t,
?S: int, unsigned short, or whatever type is used to declare file
?S: modes for system calls.
?S:.
?C:Mode_t:
?C: This symbol holds the type used to declare
 file modes
?C: for systems calls.  It is usually mode_t, but may be
?C: int or unsigned short.  It may be necessary to include <sys/types.h>
?C: to get any typedef'ed information.
?C:.
?H:#define Mode_t $modetype  /* file mode parameter for system calls */
?H:.
?LINT:set modetype
: see what type is used for mode_t
rp="What is the type used for file modes for system calls (e.g. fchmod())?"
set mode_t modetype int stdio.h sys/types.h
```

```
eval $typedef_ask
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/modetype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setprior.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setprior.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:11  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setprior: Inlibc
?MAKE: -pick add $@ %<
?S:d_setprior:
?S: This variable conditionally defines HAS_SETPRIORITY if setpriority()
?S: is available to set a process's priority.
?S:.
?C:HAS_SETPRIORITY (SETPRIORITY):
?C: This symbol, if defined, indicates that the setpriority routine is
?C: available to set a process's priority.
?C:.
?H:#$d_setprior
 HAS_SETPRIORITY  /**/
?H:.
?LINT:set d_setprior
: see if setpriority exists
set setpriority d_setprior
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setprior.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: bin.U,v $
?RCS: Revision 3.0.1.4  1995/09/25  09:15:32  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:32:40  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:05:28  ram
?RCS: patch32: now uses installation prefix
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  15:56:51  ram
?RCS: patch10: made prompting more explicit (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18
  12:05:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:bin binexp installbin: Prefixit Getfile Oldconfig afs cat test
?MAKE: -pick add $@ %<
?Y:TOP
?S:bin:
?S: This variable holds the name of the directory in which the user wants
?S: to put publicly executable images for the package in question.  It
?S: is most often a local directory such as /usr/local/bin. Programs using
?S: this variable must be prepared to deal with ~name substitution.
?S:.
?S:binexp:
?S: This is the same as the bin variable, but is filename expanded at
?S: configuration time, for use in your makefiles.
?S:.
?S:installbin:
?S: This variable is the same as binexp unless AFS is running in which case
?S: the user is explicitly prompted for it. This variable should always
?S: be used in your makefiles for maximum portability.
?S:.
?C:BIN:
?C: This symbol holds the path of the bin directory where the package will
?C: be installed. Program must be prepared to deal with ~name substitution.
?C:.
?C:BIN_EXP:
?C: This
```

```
 symbol is the filename expanded version of the BIN symbol, for
?C: programs that do not want to deal with that at run-time.
?C:.
?H:#define BIN "$bin" /**/
?H:#define BIN_EXP "$binexp" /**/
?H:.
?D:bin='/usr/local/bin'
: determine where public executables go
echo " "
set dflt bin bin
eval $prefixit
fn=d~
rp='Pathname where the public executables will reside?'
. ./getfile
if $test "X$ansexp" != "X$binexp"; then
 installbin=''
fi
bin="$ans"
binexp="$ansexp"
if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
executables reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installbin" in
 '') dflt=`echo $binexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installbin";;
 esac
 fn=de~
 rp='Where will public executables be installed?'
 . ./getfile
 installbin="$ans"
else
 installbin="$binexp"
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/bin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2017 Karl Williamson
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_thread_safe_nl_langinfo_l: Compile cat rm_try Oldconfig \
 i_pthread i_stdlib i_langinfo i_locale  \
 usethreads run
?MAKE: -pick add $@ %<
?S:d_thread_safe_nl_langinfo_l:
?S: This variable contains the eventual value of the
?S: HAS_THREAD_SAFE_NL_LANGINFO_L symbol, which indicates if the
?S: nl_langinfo_l() function exists and is thread-safe.
?S:.
?C:HAS_THREAD_SAFE_NL_LANGINFO_L:
?C: This symbol, when defined, indicates presence of the nl_langinfo_l()
?C: function, and that it is thread-safe.
?C:.
?H:#$d_thread_safe_nl_langinfo_l HAS_THREAD_SAFE_NL_LANGINFO_L /**/
?H:.
?F:!try
: check for thread_safe_nl_langinfo_l item
$cat <<EOM

Checking to see if you have nl_langinfo_l() and that it is thread-safe
EOM
?X:
 Despite claiming that nl_langinfo_l() is thread-safe, the POSIX 2008
?X: standard allows for a non-safe implementation:
?X:
?X:    "nl_langinfo_l() uses an internal per-thread buffer, and nl_langinfo()
?X: uses (in all threads) the same buffer that nl_langinfo_l() uses in the
?X: initial thread. There can be interactions, but only when
?X: nl_langinfo_l() is called in the initial thread"
?X:
?X: If nl_langinfo_l() isn't thread safe, might as well just use plain
?X: nl_langinfo().
?X:
?X: This program calls nl_langinfo_l(), then creates a thread, calling plain
?X: nl_langinfo() from within it, then sees if the buffer in the original
?X: thread was changed.
$cat >try.c <<EOCP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#include <string.h>
#$i_langinfo I_LANGINFO
#ifdef I_LANGINFO
#  include <langinfo.h>
```

```
#endif
#$i_pthread I_PTHREAD
#ifdef I_PTHREAD
#  include <pthread.h>
#endif
#$i_locale I_LOCALE
#ifdef I_LOCALE
#  include <locale.h>
#endif

void *
thread_start(void
 * arg)
{
   nl_langinfo(RADIXCHAR);
}

int main() {
   char * main_buffer;
   char save_main_buffer[1000];
   pthread_t subthread;
   pthread_attr_t attr;

   main_buffer = nl_langinfo_l(CODESET, newlocale(LC_ALL_MASK, "C", 0));

   /* If too large for our generous allowance, just assume we don't have
    * it. */
   if (strlen(main_buffer) >= sizeof(save_main_buffer)) {
       exit(1);
   }

   strcpy(save_main_buffer, main_buffer);

   if (pthread_attr_init(&attr) != 0) {
       exit(1);
   }

   if (pthread_create(&subthread, &attr, thread_start, NULL) != 0) {
       exit(1);
   }

   if (pthread_join(subthread, NULL) != 0) {
       exit(1);
   }

   exit(! (strcmp(main_buffer, save_main_buffer) == 0));
}
EOCP
```

```
case "$usethreads" in
  define)
      set try
      if eval $compile; then
         echo "Your system has nl_langinfo_l()..." >&4
         if $run ./try; then
            echo "and it is thread-safe (just as I'd hoped)." >&4
             d_thread_safe_nl_langinfo_l="$define"
            echo "$d_thread_safe_nl_langinfo_l" >&4
         else
            echo "but it isn't thread-safe, so we won't use it." >&4
         fi
      else
         echo "your system does not have nl_langinfo_l()" >&4
      fi
      ;;
  *) echo "Since threads aren't selected, we won't bother looking for nl_langinfo_l()" >&4
esac
if test X"$d_thread_safe_nl_langinfo_l" = X; then
 d_thread_safe_nl_langinfo_l="$undef"
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_nl_langinfo_l.U
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```
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getcwd: Inlibc
?MAKE: -pick add $@ %<
?S:d_getcwd:
?S: This variable conditionally defines the HAS_GETCWD symbol, which
?S: indicates to the C program that the getcwd() routine is available
?S: to get the current working directory.
?S:.
?C:HAS_GETCWD :
?C: This symbol, if defined, indicates that the getcwd routine is
?C: available to get the current working directory.
?C:.
?H:#$d_getcwd HAS_GETCWD  /**/
?H:.
```

```
?LINT:set d_getcwd
: see if getcwd exists
set getcwd d_getcwd
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getcwd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:fflushNULL fflushall: Compile cat rm rm_try test osname run to from \
 Oldconfig Myread Setvar echo targethost \
 d_sysconf i_unistd d_stdio_stream_array stdio_stream_array i_stdlib
?MAKE: -pick add $@ %<
?S:fflushNULL:
?S: This symbol, if defined, tells that fflush(NULL) correctly
?S: flushes all pending stdio output without side effects. In
?S: particular, on some platforms calling fflush(NULL) *still*
?S: corrupts STDIN if it is a pipe.
?S:.
?S:fflushall:
?S: This symbol, if defined, tells that to flush
?S: all
 pending stdio output one must loop through all
?S: the stdio file handles stored in an array and fflush them.
?S: Note that if fflushNULL is defined, fflushall will not
?S: even be probed for and will be left undefined.
?S:.
?C:FFLUSH_NULL:
?C: This symbol, if defined, tells that fflush(NULL) correctly
?C: flushes all pending stdio output without side effects. In
?C: particular, on some platforms calling fflush(NULL) *still*
?C: corrupts STDIN if it is a pipe.
?C:.
?C:FFLUSH_ALL:
?C: This symbol, if defined, tells that to flush
?C: all pending stdio output one must loop through all
?C: the stdio file handles stored in an array and fflush them.
```

```
?C: Note that if fflushNULL is defined, fflushall will not
?C: even be probed for and will be left undefined.
?C:.
?H:#$fflushNULL FFLUSH_NULL  /**/
?H:#$fflushall FFLUSH_ALL  /**/
?H:.
?T:output code
?F:!try.out !try !tryp
: Check how to flush
echo " "
$cat >&4 <<EOM
Checking how to flush all pending stdio output...
EOM
# I only know how to find
 the first 32 possibly open files on SunOS.
# See also hints/sunos_4_1.sh and util.c  --AD
case "$osname" in
sunos) $echo '#define PERL_FFLUSH_ALL_FOPEN_MAX 32' > try.c ;;
esac
$cat >>try.c <<EOCP
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#$i_unistd I_UNISTD
#ifdef I_UNISTD
# include <unistd.h>
#endif
#$d_sysconf HAS_SYSCONF
#$d_stdio_stream_array HAS_STDIO_STREAM_ARRAY
#ifdef HAS_STDIO_STREAM_ARRAY
# define STDIO_STREAM_ARRAY $stdio_stream_array
#endif
int main() {
 FILE* p;
 unlink("try.out");
 p = fopen("try.out", "w");
#ifdef TRY_FPUTC
 fputc('x', p);
#else
# ifdef TRY_FPRINTF
 fprintf(p, "x");
# endif
#endif
#ifdef TRY_FFLUSH_NULL
 fflush(NULL);
#endif
```

```
#ifdef TRY_FFLUSH_ALL
 {
   long open_max = -1;
# ifdef PERL_FFLUSH_ALL_FOPEN_MAX
   open_max = PERL_FFLUSH_ALL_FOPEN_MAX;
# else
#  if defined(HAS_SYSCONF) && defined(_SC_OPEN_MAX)
   open_max = sysconf(_SC_OPEN_MAX);
#  else
#   ifdef FOPEN_MAX
   open_max = FOPEN_MAX;
#   else
#
    ifdef OPEN_MAX
   open_max = OPEN_MAX;
#    else
#     ifdef _NFILE
   open_max = _NFILE;
#     endif
#    endif
#   endif
#  endif
# endif
# ifdef HAS_STDIO_STREAM_ARRAY
   if (open_max > 0) {
     long i;
     for (i = 0; i < open_max; i++)
     if (STDIO_STREAM_ARRAY[i]._file >= 0 &&
  STDIO_STREAM_ARRAY[i]._file < open_max &&
  STDIO_STREAM_ARRAY[i]._flag)
  fflush(&STDIO_STREAM_ARRAY[i]);
   }
 }
# endif
#endif
 _exit(42);
}
EOCP
: first we have to find out how _not_ to flush
$to try.c
if $test "X$fflushNULL" = X -o "X$fflushall" = X; then
   output=''
   set try -DTRY_FPUTC
   if eval $compile; then
     $run ./try 2>/dev/null
     code="$?"
     $from try.out
     if $test ! -s try.out -a "X$code" = X42; then
```

```
  output=-DTRY_FPUTC
    fi
  fi
  case "$output" in
  ")
    set try -DTRY_FPRINTF
    if eval $compile; then
     $run ./try 2>/dev/null
     code="$?"
     $from try.out
     if $test ! -s try.out -a "X$code" = X42; then
  output=-DTRY_FPRINTF

    fi
    fi
 ;;
  esac
fi
: check for fflush NULL behavior
case "$fflushNULL" in
") set try -DTRY_FFLUSH_NULL $output
 if eval $compile; then
  $run ./try 2>/dev/null
  code="$?"
  $from try.out
  if $test -s try.out -a "X$code" = X42; then
   fflushNULL="`$cat try.out`"
  else
   if $test "X$code" != X42; then
    $cat >&4 <<EOM
(If this test failed, don't worry, we'll try another method shortly.)
EOM
   fi
  fi
 fi
 $rm -f core try.core core.try.*
 case "$fflushNULL" in
 x) $cat >&4 <<EOM
Your fflush(NULL) works okay for output streams.
Let's see if it clobbers input pipes...
EOM
# As of mid-March 2000 all versions of Solaris appear to have a stdio
# bug that improperly flushes the input end of pipes.  So we avoid the
# autoflush on fork/system/exec support for now. :-(
$cat >tryp.c <<EOCP
#include <stdio.h>
int
main(int argc, char **argv)
```

```
{
  char buf[1024];
  int i;
  char *bp = buf;
  while (1) {
 while ((i = getc(stdin)) != -1
       && (*bp++ = i) != '\n'

    && bp < &buf[1024])
 /* DO NOTHING */ ;
 *bp = '\0';
 fprintf(stdout, "%s", buf);
 fflush(NULL);
 if (i == -1)
    return 0;
 bp = buf;
  }
}
EOCP
  fflushNULL="$define"
  set tryp
  if eval $compile; then
     $rm -f tryp.out
     # Copy the .c file to the remote host ($to is an ssh-alike if targethost is set)
     if $test "X$targethost" != X; then
  $to tryp.c
  $to tryp
  $run "cat tryp.c | ./tryp " 2>/dev/null > tryp.out
     else
  $cat tryp.c | $run ./tryp   2>/dev/null > tryp.out
     fi
     if cmp tryp.c tryp.out >/dev/null 2>&1; then
        $cat >&4 <<EOM
fflush(NULL) seems to behave okay with input streams.
EOM
  fflushNULL="$define"
     else
  $cat >&4 <<EOM
Ouch, fflush(NULL) clobbers input pipes!  We will not use it.
EOM
  fflushNULL="$undef"
     fi
  fi
  $rm -f core tryp.c tryp.core core.tryp.*
  ;;
 ") $cat >&4 <<EOM
Your fflush(NULL) isn't working (contrary to ANSI C).
EOM
```

```
  fflushNULL="$undef"
  ;;
 *) $cat >&4 <<EOM
Cannot figure out whether
 your fflush(NULL) works or not.
I'm assuming it doesn't (contrary to ANSI C).
EOM
  fflushNULL="$undef"
  ;;
 esac
 ;;
$define|true|[yY]*)
 fflushNULL="$define"
 ;;
*)
 fflushNULL="$undef"
 ;;
esac
: check explicit looping only if NULL did not work, and if the pipe
: bug does not show up on an explicit flush too
case "$fflushNULL" in
"$undef")
 $cat >tryp.c <<EOCP
#include <stdio.h>
int
main(int argc, char **argv)
{
   char buf[1024];
   int i;
   char *bp = buf;
   while (1) {
 while ((i = getc(stdin)) != -1
        && (*bp++ = i) != '\n'
        && bp < &buf[1024])
 /* DO NOTHING */ ;
 *bp = '\0';
 fprintf(stdout, "%s", buf);
 fflush(stdin);
 if (i == -1)
     return 0;
 bp = buf;
   }
}
EOCP
 set tryp
 if eval $compile; then
     $rm -f tryp.out
     if $test "X$targethost" != X; then
```

```
  $to tryp.c
  $to tryp
  $run "cat tryp.c | ./tryp " 2>/dev/null > tryp.out
     else
  $cat tryp.c | $run ./tryp   2>/dev/null > tryp.out
     fi
     if cmp tryp.c tryp.out >/dev/null 2>&1;
 then
        $cat >&4 <<EOM
Good, at least fflush(stdin) seems to behave okay when stdin is a pipe.
EOM
  : now check for fflushall behaviour
  case "$fflushall" in
  ") set try -DTRY_FFLUSH_ALL $output
   if eval $compile; then
    $cat >&4 <<EOM
(Now testing the other method--but note that this also may fail.)
EOM
    $run ./try 2>/dev/null
    code=$?
    $from try.out
    if $test -s try.out -a "X$code" = X42; then
     fflushall="`$cat try.out`"
    fi
   fi
   $rm_try
   case "$fflushall" in
   x) $cat >&4 <<EOM
Whew. Flushing explicitly all the stdio streams works.
EOM
    fflushall="$define"
    ;;
   ") $cat >&4 <<EOM
Sigh. Flushing explicitly all the stdio streams doesn't work.
EOM
    fflushall="$undef"
    ;;
   *) $cat >&4 <<EOM
Cannot figure out whether flushing stdio streams explicitly works or not.
I'm assuming it doesn't.
EOM
    fflushall="$undef"
    ;;
   esac
   ;;
  "$define"|true|[yY]*)
   fflushall="$define"
   ;;
```

```
  *)
   fflushall="$undef"
   ;;
  esac

 else
  $cat >&4 <<EOM
All is futile.  Even fflush(stdin) clobbers input pipes!
EOM
  fflushall="$undef"
     fi
 else
     fflushall="$undef"
 fi
 $rm -f core tryp.c tryp.core core.tryp.*
 ;;
*) fflushall="$undef"
 ;;
esac

case "$fflushNULL$fflushall" in
undefundef)
 $cat <<EOM
OK, I give up.  I cannot figure out how to flush pending stdio output.
We won't be flushing handles at all before fork/exec/popen.
EOM
 ;;
esac
$rm_try tryp
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/fflushall.U
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```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isfinite: Inlibc cat Compile rm_try Setvar
?MAKE: -pick add $@ %<
?S:d_isfinite:
?S: This variable conditionally defines the HAS_ISFINITE symbol, which
?S: indicates to the C program that the isfinite() routine is available.
?S:.
```

```
?C:HAS_ISFINITE:
?C: This symbol, if defined, indicates that the isfinite routine is
?C: available to check whether a double is finite (non-infinity non-NaN).
?C:.
?LINT:set d_isfinite
?H:#$d_isfinite HAS_ISFINITE  /**/
?H:.
: check for isfinite
echo "Checking to see if you have isfinite..." >&4
$cat >try.c <<EOCP
#include <math.h>
int main() { return isfinite(0.0); }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have isfinite."
else
 val="$undef"
 echo
 "You do not have isfinite."
fi
$rm_try
set d_isfinite
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_isfinite.U
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```
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?RCS:
?MAKE:i_quadmath: Inhdr
?MAKE: -pick add $@ %<
?S:i_quadmath:
?S: This variable conditionally defines I_QUADMATH, which indicates
?S: to the C program that it should include <quadmath.h>.
?S:.
?C:I_QUADMATH:
?C: This symbol, if defined, indicates that <quadmath.h> exists and
?C: should be included.
?C:.
?H:#$i_quadmath I_QUADMATH  /**/
?H:.
?LINT:set i_quadmath
: see if this is a quadmath.h system
```

```
set quadmath.h i_quadmath
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_quadmath.U
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```
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?RCS:
?MAKE:d_ptrdiff_t: Inlibc Setvar Compile rm_try cat
?MAKE: -pick add $@ %<
?S:d_ptrdiff_t:
?S: This symbol will be defined if the C compiler supports ptrdiff_t.
?S:.
?C:HAS_PTRDIFF_T:
?C: This symbol will be defined if the C compiler supports ptrdiff_t.
?C:.
?H:#$d_ptrdiff_t HAS_PTRDIFF_T  /**/
?H:.
?LINT:set d_ptrdiff_t
: check for ptrdiff_t
echo " "
echo "Checking to see if you have ptrdiff_t..." >&4
$cat >try.c <<EOCP
#include <stddef.h>
int main() { ptrdiff_t x = 7; }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have ptrdiff_t."
else
 val="$undef"
 echo "You do not have ptrdiff_t."
fi
$rm_try
set d_ptrdiff_t
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_ptrdiff_t.U

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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: lib.U,v $
?RCS: Revision 3.0.1.3  1995/09/25  09:16:47  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:38:08  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:27:40  ram
?RCS: patch32: now uses installation prefix to set the default
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lib libexp: Getfile
 Loc Oldconfig Prefixit Prefixup prefixexp
?MAKE: -pick add $@ %<
?Y:TOP
?S:lib:
?S: This variable holds the name of the directory in which the user wants
?S: to put public library files for the package in question.  It is most
?S: often a local directory such as /usr/local/lib. Programs using this
?S: variable must be prepared to deal with filename expansion.
?S:.
?S:libexp:
?S: This variable is the same as the lib variable, but is filename expanded
?S: at configuration time, for convenient use in your makefiles.
?S:.
: determine where public libraries go
set lib lib
eval $prefixit
case "$lib" in
")
 dflt=`./loc . "." $prefixexp/lib /usr/local/lib /usr/lib /lib`
 set dflt
 eval $prefixup
 ;;
```

```
*)  dflt="$lib";;
esac
echo " "
fn=d~
rp='Where do you want to put the public libraries?'
. ./getfile
lib="$ans"
libexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/lib.U
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```
?RCS: $Id: d_msync.U 1 2006-08-24 12:32:52Z rmanfredi $
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_msync.U,v $
?RCS: Revision 3.0.1.1  1993/12/15  08:19:17  ram
?RCS: patch15: created
?RCS:
?MAKE:d_msync: Inlibc
?MAKE: -pick add $@ %<
?S:d_msync:
?S: This variable conditionally defines HAS_MSYNC if msync() is
?S: available to synchronize a mapped file.
?S:.
?C:HAS_MSYNC:
?C: This symbol, if defined, indicates that the msync system call is
?C: available to synchronize a mapped file.
?C:.
?H:#$d_msync HAS_MSYNC  /**/
?H:.
?LINT:set d_msync
: see if
 msync exists
set msync d_msync
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/dist/U/d_msync.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_shm.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_shm: test d_shmctl d_shmget d_shmat d_shmdt Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_shm:
?S: This variable conditionally defines the HAS_SHM symbol, which
?S: indicates that the entire shm*(2) library is present.
?S:.
?C:HAS_SHM:
?C: This symbol, if defined, indicates that the entire shm*(2) library is
?C: supported.
?C:.
?H:#$d_shm HAS_SHM  /**/
?H:.
?T:h_shm
?LINT:set d_shm
:
 see how much of the 'shm*(2)' library is present.
h_shm=true
echo " "
case "$d_shmctl$d_shmget$d_shmat$d_shmdt" in
*"$undef"*) h_shm=false;;
esac
: we could also check for sys/ipc.h ...
if $h_shm && $test `./findhdr sys/shm.h`; then
 echo "You have the full shm*(2) library." >&4
 val="$define"
else
 echo "You don't have the full shm*(2) library." >&4
 val="$undef"
fi
set d_shm
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_shm.U
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?RCS:
?MAKE:d_nl_langinfo: Inlibc i_langinfo
?MAKE: -pick add $@ %<
?S:d_nl_langinfo:
?S: This variable conditionally defines the HAS_NL_LANGINFO symbol, which
?S: indicates to the C program that the nl_langinfo() routine is available.
?S:.
?C:HAS_NL_LANGINFO:
?C: This symbol, if defined, indicates that the nl_langinfo routine is
?C: available to return local data.  You will also need <langinfo.h>
?C: and therefore I_LANGINFO.
?C:.
?H:#$d_nl_langinfo HAS_NL_LANGINFO  /**/
?H:.
?LINT:set d_nl_langinfo
?LINT:use i_langinfo
: see if nl_langinfo exists
set nl_langinfo d_nl_langinfo
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_nl_langinfo.U
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```
?RCS: $Id: socksizetype.U,v $
?RCS:
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?RCS:
?MAKE:socksizetype: \
 Protochk Oldconfig Myread cat d_socket d_socklen_t sizetype \
 usesocks i_socks i_systypes extern_C
?MAKE: -pick add $@ %<
```

```
?S:socksizetype:
?S: This variable holds the type used for the size argument
?S: for various socket calls like accept.  Usual values include
?S: socklen_t, size_t, and int.
?S:.
?C:Sock_size_t:
?C: This symbol holds the type used for the size argument of
?C: various socket calls (just the base type, not the pointer-to).
?C:.
?H:#define Sock_size_t  $socksizetype /**/
?H:.
?T:xxx yyy try
@if Sock_size_t
: check for type of the size argument to socket calls
case "$d_socket" in
"$define")
 $cat <<EOM

Checking to see what type is the last argument
 of accept().
EOM
 yyy=''
 case "$d_socklen_t" in
 "$define") yyy="$yyy socklen_t"
 esac
 yyy="$yyy $sizetype int long unsigned"
 for xxx in $yyy; do
  case "$socksizetype" in
  ") try="$extern_C int accept(int, struct sockaddr *, $xxx *);"
   case "$usesocks" in
   "$define")
    if ./protochk "$try" $i_systypes sys/types.h $d_socket sys/socket.h literal '#define INCLUDE_PROTOTYPES'
$i_socks socks.h.; then
     echo "Your system accepts '$xxx *' for the last argument of accept()."
     socksizetype="$xxx"
    fi
    ;;
   *) if ./protochk "$try"  $i_systypes sys/types.h $d_socket sys/socket.h; then
     echo "Your system accepts '$xxx *' for the last argument of accept()."
     socksizetype="$xxx"
    fi
    ;;
   esac
   ;;
  esac
 done
: In case none of those worked, prompt the user.
 case "$socksizetype" in
```

```
 ") rp='What is the type for socket address structure sizes?'
  dflt='int'
  . ./myread
  socksizetype=$ans
  ;;
 esac
 ;;
*) : no sockets, so pick relatively harmless default
 socksizetype='int'
 ;;
esac
@end
```

Found
 in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/socksizetype.U
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:st_ino_size st_ino_sign: cat echo i_stdlib Setvar Compile run rm_try
?MAKE: -pick add $@ %<
?S:st_ino_sign:
?S: This variable contains the signedness of struct stat's st_ino.
?S: 1 for unsigned, -1 for signed.
?S:.
?S:st_ino_size:
?S: This variable contains the size of struct stat's st_ino in bytes.
?S:.
?C:ST_INO_SIZE:
?C: This variable contains the size of struct stat's st_ino in bytes.
?C:.
?C:ST_INO_SIGN:
?C: This symbol holds the signedness of struct stat's st_ino.
?C: 1 for unsigned, -1 for signed.
?C:.
?H:#define ST_INO_SIGN
 $st_ino_sign /* st_ino sign */
?H:#define ST_INO_SIZE $st_ino_size /* st_ino size */
?H:.
?F:!try
```

```
: Check the size of st_ino
$echo " "
$echo "Checking the size of st_ino..." >&4
$cat > try.c <<EOCP
#include <sys/stat.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main() {
   struct stat st;
   printf("%d\n", (int)sizeof(st.st_ino));
   exit(0);
}
EOCP
set try
if eval $compile_ok; then
 val=`$run ./try`
 case "$val" in
 ") st_ino_size=4
  $echo "(I can't execute the test program--guessing $st_ino_size.)" >&4
  ;;
 *) st_ino_size=$val
  $echo "Your st_ino is $st_ino_size bytes long."
  ;;
 esac
else
 st_ino_size=4
 $echo "(I can't compile the test program--guessing $st_ino_size.)" >&4
fi
$rm_try

: Check if st_ino is signed
$echo " "
$echo "Checking the sign of st_ino..." >&4
$cat > try.c <<EOCP
#include <sys/stat.h>
#include <stdio.h>
int main() {
 struct stat foo;
       foo.st_ino = -1;
 if (foo.st_ino < 0)
  printf("-1\n");
 else
  printf("1\n");
}
EOCP
```

```
set
 try
if eval $compile; then
 val=`$run ./try`
 case "$val" in
 ") st_ino_sign=1
  $echo "(I can't execute the test program--guessing unsigned.)" >&4
  ;;
 *) st_ino_sign=$val
  case "$st_ino_sign" in
   1) $echo "Your st_ino is unsigned." ;;
  -1) $echo "Your st_ino is signed."   ;;
  esac
  ;;
 esac
else
 st_ino_sign=1
 $echo "(I can't compile the test program--guessing unsigned.)" >&4
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/st_ino_def.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pthrattrj.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_old_pthread_create_joinable old_pthread_create_joinable: \
 cat Compile rm_try Setvar usethreads i_pthread
?MAKE: -pick add $@ %<
?S:d_old_pthread_create_joinable:
?S: This variable conditionally defines pthread_create_joinable.
?S: undef if pthread.h defines PTHREAD_CREATE_JOINABLE.
?S:.
?S:old_pthread_create_joinable:
?S: This variable defines the constant to use for creating joinable
?S: (aka undetached) pthreads.  Unused if pthread.h defines
?S: PTHREAD_CREATE_JOINABLE.  If used, possible values are
?S: PTHREAD_CREATE_UNDETACHED and __UNDETACHED.
?S:.
?C:OLD_PTHREAD_CREATE_JOINABLE:
?C: This symbol, if defined, indicates how to create pthread
```

```
?C: in joinable (aka undetached)
 state.  NOTE: not defined
?C: if pthread.h already has defined PTHREAD_CREATE_JOINABLE
?C: (the new version of the constant).
?C: If defined, known values are PTHREAD_CREATE_UNDETACHED
?C: and __UNDETACHED.
?C:.
?H:#$d_old_pthread_create_joinable OLD_PTHREAD_CREATE_JOINABLE $old_pthread_create_joinable /**/
?H:.
: how to create joinable pthreads
if test "X$usethreads" = "X$define" -a "X$i_pthread" = "X$define"; then
 echo " "
 echo "Checking what constant to use for creating joinable pthreads..." >&4
 $cat >try.c <<'EOCP'
#include <pthread.h>
int main() {
   int detachstate = JOINABLE;
}
EOCP
 set try -DJOINABLE=PTHREAD_CREATE_JOINABLE
 if eval $compile; then
  echo "You seem to use PTHREAD_CREATE_JOINABLE." >&4
  val="$undef" # Yes, undef.
  set d_old_pthread_create_joinable
  eval $setvar
  val=""
  set old_pthread_create_joinable
  eval $setvar
 else
  set try -DJOINABLE=PTHREAD_CREATE_UNDETACHED
  if eval $compile; then
   echo "You seem to use PTHREAD_CREATE_UNDETACHED." >&4
   val="$define"
   set
 d_old_pthread_create_joinable
   eval $setvar
   val=PTHREAD_CREATE_UNDETACHED
   set old_pthread_create_joinable
   eval $setvar
  else
   set try -DJOINABLE=__UNDETACHED
   if eval $compile; then
    echo "You seem to use __UNDETACHED." >&4
    val="$define"
    set d_old_pthread_create_joinable
    eval $setvar
    val=__UNDETACHED
    set old_pthread_create_joinable
```

```
    eval $setvar
   else
    echo "Egads, nothing obvious found.  Guessing that you use 0." >&4
    val="$define"
    set d_old_pthread_create_joinable
    eval $setvar
    val=0
    set old_pthread_create_joinable
    eval $setvar
   fi
  fi
 fi
 $rm_try
else
   d_old_pthread_create_joinable="$undef"
   old_pthread_create_joinable=""
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_pthrattrj.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysioctl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysioctl.U,v $
?RCS: Revision 3.0.1.2  1994/05/06  15:04:57  ram
?RCS: patch23: added knowledge for <sys/filio.h> (WED)
?RCS: patch23: optimized amount of findhdr calls
?RCS:
?RCS: Revision 3.0.1.1  1993/11/10  17:36:09  ram
?RCS: patch14: now use a compiler check for TIOCNOTTY because of HP-UX 9.x
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:32  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_sysioctl i_bsdioctl i_sysfilio i_syssockio
 d_voidtty: test contains \
 cat i_termio i_termios i_sgtty Setvar Findhdr +cc rm Inhdr
?MAKE: -pick add $@ %<
```

```
?S:i_sysioctl:
?S: This variable conditionally defines the I_SYS_IOCTL symbol, which
?S: indicates to the C program that <sys/ioctl.h> exists and should
?S: be included.
?S:.
?S:i_sysfilio:
?S: This variable conditionally defines the I_SYS_FILIO symbol, which
?S: indicates to the C program that <sys/filio.h> exists and should
?S: be included in preference to <sys/ioctl.h>.
?S:.
?S:i_bsdioctl:
?S: This variable conditionally defines the I_SYS_BSDIOCTL symbol, which
?S: indicates to the C program that <sys/bsdioctl.h> exists and should
?S: be included.
?S:.
?S:i_syssockio:
?S: This variable conditionally defines I_SYS_SOCKIO to indicate to the
?S: C program that socket ioctl codes may be found in <sys/sockio.h>
?S: instead of <sys/ioctl.h>.
?S:.
?S:d_voidtty:
?S: This variable conditionally defines USE_IOCNOTTY to indicate that the
?S: ioctl() call with TIOCNOTTY should be used
 to void tty association.
?S: Otherwise (on USG probably), it is enough to close the standard file
?S: descriptors and do a setpgrp().
?S:.
?C:I_SYS_IOCTL (I_SYSIOCTL):
?C: This symbol, if defined, indicates that <sys/ioctl.h> exists and should
?C: be included. Otherwise, include <sgtty.h> or <termio.h>.
?C:.
?C:I_SYS_FILIO:
?C: This symbol, if defined, indicates that <sys/filio.h> exists and
?C: should be included instead of <sys/ioctl.h>.
?C:.
?C:I_SYS_BSDIOCTL (I_BSDIOCTL):
?C: This symbol, if defined, indicates that <sys/bsdioctl.h> exists and should
?C: be included. Otherwise, try <sys/ioctl.h>. This is primarly intended for
?C: definitions of sockets options, like SIOCATMARK.
?C:.
?C:I_SYS_SOCKIO (I_SYSSOCKIO):
?C: This symbol, if defined, indicates the <sys/sockio.h> should be included
?C: to get socket ioctl options, like SIOCATMARK.
?C:.
?C:USE_TIOCNOTTY (VOIDTTY):
?C: This symbol, if defined indicate to the C program that the ioctl()
?C: call with TIOCNOTTY should be used
```

```
 to void tty association.
?C: Otherwise (on USG probably), it is enough to close the standard file
?C: descriptors and do a setpgrp().
?C:.
?H:#$i_sysioctl I_SYS_IOCTL  /**/
?H:#$i_sysfilio I_SYS_FILIO  /**/
?H:#$i_bsdioctl I_SYS_BSDIOCTL  /**/
?H:#$i_syssockio I_SYS_SOCKIO /**/
?H:#$d_voidtty USE_TIOCNOTTY /**/
?H:.
?T:xxx
: see if ioctl defs are in sgtty, termio, sys/filio or sys/ioctl
?LINT:set i_sysfilio
set sys/filio.h i_sysfilio
eval $inhdr
echo " "
if $test `./findhdr sys/ioctl.h`; then
 val="$define"
 echo '<sys/ioctl.h> found.' >&4
else
 val="$undef"
 if $test $i_sysfilio = "$define"; then
     echo '<sys/ioctl.h> NOT found.' >&4
 else
  $test $i_sgtty = "$define" && xxx="sgtty.h"
  $test $i_termio = "$define" && xxx="termio.h"
  $test $i_termios = "$define" && xxx="termios.h"
echo "No <sys/ioctl.h> found, assuming ioctl args are defined in <$xxx>." >&4
 fi
fi
?LINT:set i_sysioctl
set i_sysioctl
eval $setvar

@if I_BSDIOCTL || i_bsdioctl
?X:
?X: The only machine I know where this
 inclusion was necessary is a
?X: BULL DPX 5000 (a French machine).
?X:
: see if socket ioctl defs are in sys/bsdioctl or sys/ioctl
echo " "
xxx=`./findhdr sys/bsdioctl.h`
if $test "$xxx"; then
 if $contains SIOCATMARK $xxx >/dev/null 2>&1; then
  val="$define"
  echo "You have socket ioctls defined in <sys/bsdioctl.h>." >&4
 else
```

```
  val="$undef"
  echo "No socket ioctls found in <sys/bsdioctl.h>." >&4
 fi
else
 val="$undef"
 echo "<sys/bsdioctl.h> not found, but that's ok." >&4
fi
?LINT:set i_bsdioctl
set i_bsdioctl
eval $setvar

@end
@if I_SYSSOCKIO || i_syssockio
: see if socket ioctl defs are in sys/sockio.h
echo " "
xxx=`./findhdr sys/sockio.h`
if $test "$xxx"; then
 if $contains SIOCATMARK $xxx >/dev/null 2>&1; then
  val="$define"
  echo "You have socket ioctls defined in <sys/sockio.h>." >&4
 else
  val="$undef"
  echo "No socket ioctls found in <sys/sockio.h>." >&4
 fi
else
 val="$undef"
@if I_BSDIOCTL
 case "$i_bsdioctl" in
 "$define") $cat <<EOM
<sys/sockio.h> not found, using
 ioctls from <sys/bsdioctl.h>.
EOM
 ;;
 *) $cat <<EOM
<sys/sockio.h> not found, assuming socket ioctls are in <sys/ioctl.h>.
EOM
 ;;
 esac
@else
 $cat <<EOM
<sys/sockio.h> not found, assuming socket ioctls are in <sys/ioctl.h>.
EOM
@end
fi
?LINT:set i_syssockio
set i_syssockio
eval $setvar
```

```
@end
@if VOIDTTY || d_voidtty
: check how to void tty association
echo " "
case "$i_sysioctl" in
"$define") xxx='sys/ioctl.h';;
?X: otherwise $xxx was set during the determination of i_sysioctl, above.
esac
?X:
?X: Can't use $contains here since HP-UX 9.x has TIOCNOTTY between a pair
?X: of #ifdef/#endif and is never actually defined. Oh well...
?X:
$cat > tcio.c <<EOM
#include <sys/types.h> /* Just in case */
#include <$xxx>

int main()
{
#ifdef TIOCNOTTY
 exit(0);
#else
 exit(1);
#endif
}
EOM
if ($cc -o tcio tcio.c && ./tcio) >/dev/null 2>&1; then
 val="$define"
 echo "TIOCNOTTY found in <$xxx>." >&4
 echo "Using ioctl() call on /dev/tty to void tty association." >&4
else
 val="$undef"
 echo "Closing
 standard file descriptors should void tty association." >&4
fi
?LINT:set d_voidtty
set d_voidtty
eval $setvar
$rm -f tcio tcio.? core

@end
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sysioctl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: lns.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  07:05:52  ram
?RCS: patch30: created by ADO
?RCS:
?X:
?X: This unit checks whether symbolic links are really supported.
?X: We can't rely on d_symlink because that may be listed in the
?X: C library but unimplemented.
?X:
?MAKE:lns: ln rm touch test
?MAKE: -pick add $@ %<
?S:lns:
?S: This variable holds the name of the command to make
?S: symbolic links (if they are supported).
  It can be used
?S: in the Makefile. It is either 'ln -s' or 'ln'
?S:.
: determine whether symbolic links are supported
echo " "
$rm -f blurfl sym
$touch blurfl
if $ln -s blurfl sym > /dev/null 2>&1 && $test -f sym; then
 echo "Symbolic links are supported." >&4
 lns="$ln -s"
else
 echo "Symbolic links are NOT supported." >&4
 lns="$ln"
fi
$rm -f blurfl sym
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/lns.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_locale.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_locale.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:48:23  ram
?RCS: patch61: created
?RCS:
?MAKE:i_locale: Inhdr
?MAKE: -pick add $@ %<
?S:i_locale:
?S: This variable conditionally defines the I_LOCALE symbol,
?S: and indicates whether a C program should include <locale.h>.
?S:.
?C:I_LOCALE:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <locale.h>.
?C:.
?H:#$i_locale I_LOCALE  /**/
?H:.
?LINT:set
 i_locale
: see if locale.h is available
set locale.h i_locale
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_locale.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: orgname.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: orgname.U,v $
?RCS: Revision 3.0.1.1  1993/09/13  16:10:25  ram
?RCS: patch10: added support for /local/src to the search (WAD)
```

```
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:orgname: sed cat Myread Loc Oldconfig
?MAKE: -pick add $@ %<
?S:orgname:
?S: This variable contains the eventual value of the ORGNAME symbol,
?S: which contains either the organizaton name or the full pathname
?S: of
 a file containing the organization name.
?S:.
?C:ORGNAME:
?C: This symbol contains either the organizaton name or the full pathname
?C: of a file containing the organization name, which the program must
?C: be prepared to open and substitute the contents of.
?C:.
?H:#define ORGNAME "$orgname"  /**/
?H:.
?T:longshots xxx
: get organization name
longshots='/local/src /usr/src/new /usr/src/local /usr/local/src'
case "$orgname" in
") if xxx=`./loc news/src/defs.h x $longshots`; then
  dflt=`$sed -n 's/^.*MYORG[  ]*"\(.*\)".*$/\1/p' $xxx`
 else
  dflt=''
 fi
 ;;
*)  dflt="$orgname";;
esac
$cat << 'EOH'

Please type the name of your organization as you want it to appear on the
Organization line of outgoing articles.  (It's nice if this also specifies
your location.  Your city name is probably sufficient if well known.)
For example:

   University of Southern North Dakota, Hoople

You may also put the name of a file, as long as it begins with a slash.
For example:

   /etc/organization

EOH
orgname=""
while
```

```
 test "X$orgname" = "X"; do
 rp='Organization:'
 . ./myread
 orgname="$ans"
done
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/orgname.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_asctime_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_asctime_r asctime_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_time i_systime extern_C
?MAKE: -pick add $@ %<
?S:d_asctime_r:
?S: This variable conditionally defines the HAS_ASCTIME_R symbol,
?S: which indicates to the C program that the asctime_r()
?S: routine is available.
?S:.
?S:asctime_r_proto:
?S: This variable encodes the prototype of asctime_r.
?S: It is zero if d_asctime_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_asctime_r
?S: is defined.
?S:.
?C:HAS_ASCTIME_R:
?C: This symbol, if defined, indicates that the asctime_r routine
?C: is available to asctime
 re-entrantly.
?C:.
?C:ASCTIME_R_PROTO:
?C: This symbol encodes the prototype of asctime_r.
?C: It is zero if d_asctime_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_asctime_r
?C: is defined.
?C:.
?H:#$d_asctime_r HAS_ASCTIME_R /**/
?H:#define ASCTIME_R_PROTO $asctime_r_proto /**/
?H:.
?T:try hdrs d_asctime_r_proto
```

```
: see if asctime_r exists
set asctime_r d_asctime_r
eval $inlibc
case "$d_asctime_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_time time.h $i_systime sys/time.h"
 case "$d_asctime_r_proto:$usethreads" in
 ":define") d_asctime_r_proto=define
  set d_asctime_r_proto asctime_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_asctime_r_proto" in
 define)
 case "$asctime_r_proto" in
 "|0) try='char* asctime_r(const struct tm*, char*);'
 ./protochk "$extern_C $try" $hdrs && asctime_r_proto=B_SB ;;
 esac
 case "$asctime_r_proto" in
 "|0) try='char* asctime_r(const struct tm*, char*, int);'
 ./protochk "$extern_C $try" $hdrs
 && asctime_r_proto=B_SBI ;;
 esac
 case "$asctime_r_proto" in
 "|0) try='int asctime_r(const struct tm*, char*);'
 ./protochk "$extern_C $try" $hdrs && asctime_r_proto=I_SB ;;
 esac
 case "$asctime_r_proto" in
 "|0) try='int asctime_r(const struct tm*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && asctime_r_proto=I_SBI ;;
 esac
 case "$asctime_r_proto" in
 "|0) d_asctime_r=undef
  asctime_r_proto=0
  echo "Disabling asctime_r, cannot determine prototype." >&4 ;;
 * ) case "$asctime_r_proto" in
  REENTRANT_PROTO*) ;;
  *) asctime_r_proto="REENTRANT_PROTO_$asctime_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "asctime_r has no prototype, not using it." >&4 ;;
  esac
  d_asctime_r=undef
  asctime_r_proto=0
  ;;
```

```
 esac
 ;;
*) asctime_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_asctime_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ftrncate.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_ftrncate.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_ftrncate: Inlibc
?MAKE: -pick add $@ %<
?S:d_ftrncate (d_ftruncate):
?S: This variable conditionally defines the HAS_FTRUNCATE symbol, which
?S: indicates to the C program that the ftruncate() subroutine exists.
?S:.
?C:HAS_FTRUNCATE:
?C: This symbol, if defined, indicates that the ftruncate() subroutine
?C: exists.
?C:.
?H:#$d_ftrncate
 HAS_FTRUNCATE /**/
?H:.
?LINT:set d_ftrncate
: see if ftruncate exists
set ftruncate d_ftrncate
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_ftrncate.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endpwent.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_endpwent.U,v $
?RCS:
?MAKE:d_endpwent: Inlibc
?MAKE: -pick add $@ %<
?S:d_endpwent:
?S: This variable conditionally defines the HAS_ENDPWENT symbol, which
?S: indicates to the C program that the endpwent() routine is available
?S: for sequential access of the passwd database.
?S:.
?C:HAS_ENDPWENT:
?C: This symbol, if defined, indicates that the getgrent routine is
?C: available for finalizing sequential access of the passwd database.
?C:.
?H:#$d_endpwent HAS_ENDPWENT  /**/
?H:.
?LINT:set d_endpwent
: see if endpwent exists
set endpwent d_endpwent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_endpwent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: nlist_pfx.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: nlist_pfx.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:26:18  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:25  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?MAKE:nlist_pfx nlist_fnd: cat test Myread Oldconfig libnlist \
 +cc +ccflags
?MAKE: -pick add $@ %<
?S:nlist_pfx:
?S: This variable holds any characters which precede the symbol name
?S: when doing an nlist search.
?S:.
?S:nlist_fnd:
?S: This
 variable holds the member of the nlist structure which is
?S: nonzero if an nlist search succeeds.  Presently, it is always "n_value".
?S:.
?C:NLIST_PREFIX:
?C: This manifest constant holds the string of characters which should
?C: precede the symbol name when doing an nlist search.
?C:.
?C:NLIST_FOUND:
?C: This manifest constant holds the member of the nlist structure which
?C: is nonzero if an nlist search succeeds.
?C:.
?H:#define NLIST_PREFIX $nlist_pfx /**/
?H:#define NLIST_FOUND $nlist_fnd /**/
?H:.
?F:!nlisttest
?T:nlist_loc
: Nose around for nlist stuff
echo " "
echo "Checking out nlist stuff..." >&4
$cat >nlisttest.c <<'EOCP'
#include <stdio.h>
#include <nlist.h>

main(argc, argv)
int argc;
char **argv;
{
 int (*loc)();
 extern int hereIam();
 static struct nlist nl[] = {
  { "IamNotFound", 0 },
  { "hereIam", 0 },
  { "_hereIam", 0 },
  { ".hereIam", 0 },
  { "", 0 }
 };

 loc = hereIam;
```

```
 if(argc == 1) {
  printf("%ld\n", loc);}
 else {
  int i;
  int rc;

  if(nlist("./nlisttest",
 nl) == -1) exit(-1);
  i = argv[1][0] - '0';
  printf("%d %d %d\n", nl[i].n_name, nl[i].n_type, nl[i].n_value);
  }
 exit(0);}

int hereIam() {

 return;}
EOCP
nlist_fnd=n_value
if $cc $ccflags -o nlisttest nlisttest.c $libnlist >/dev/null 2>&1 ; then
 set `./nlisttest`
 nlist_loc=$1

 set `./nlisttest 0`
 if $test "$3" = "0" ; then
  echo "$nlist_fnd is 0 if nlist() fails, as I expected."
 else
  $cat <<EOM
Hello, Jim.  We have just discovered that $nlist_fnd was nonzero on an
nlist() lookup failure!  Your mission, should you choose to accept it, is to
edit either config.sh (to provide a Good value for nlist_fnd) or The Code
(to find an alternative to NLIST_FOUND), and reporting the full details of
your success to the MetaConfig Police.  Of course, should you fail...
EOM
  nlist_fnd="/* Bletch! */ */"
 fi

 set `./nlisttest 1`
 if $test "$nlist_loc" = "$3" ; then
  echo "Symbols are stored with no initial characters."
  nlist_pfx=
 else
  set `./nlisttest 2`
  if
 $test "$nlist_loc" = "$3" ; then
   echo "Symbols are stored with an initial underscore."
   nlist_pfx=_
  else
```

```
   set `./nlisttest 3`
   if $test "$nlist_loc" = "$3" ; then
    echo "Symbols are stored with an initial dot."
    nlist_pfx=.
   else
    $cat <<EOM
I can't figure out the symbol prefix!
You get to edit config.sh and fix 'nlist_pfx' (Configure will let you do this
at the end of its configuration questions), or config.h and fix the value of
the NLIST_PREFIX symbol.
EOM
    nlist_pfx="/* Bletch! */ */"
   fi
  fi
 fi
else
 $cat <<EOM
I can't get the nlist test program working!
You get to edit config.sh and fix 'nlist_pfx' (Configure will let you do this
at the end of its configuration questions) and 'nlist_fnd', or config.h and
fix the value of the NLIST_PREFIX and NLIST_FOUND symbols.
EOM
 nlist_pfx="/* Bletch! */ */"
 nlist_fnd="/* Bletch! */ */"
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/nlist_pfx.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ffs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_ffs.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_ffs: Inlibc
?MAKE: -pick add $@ %<
?S:d_ffs:
```

```
?S: This variable conditionally defines the HAS_FFS symbol, which
?S: indicates to the C program that the ffs() routine is available
?S: to find the first bit which is set in its integer argument.
?S:.
?C:HAS_FFS:
?C: This symbol, if defined, indicates that the ffs routine is available
?C: to
 find the first bit set in its argument.  If it's not available,
?C: roll your own.
?C:.
?H:#$d_ffs HAS_FFS  /**/
?H:.
?LINT:set d_ffs
: see if ffs exists
set ffs d_ffs
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_ffs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: mkdep.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: mkdep.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  16:13:07  ram
?RCS: patch61: replaced .o with $_o all over the place
?RCS:
?RCS: Revision 3.0.1.3  1994/10/29  16:25:02  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:15:12  ram
?RCS: patch16: cppflags is now an optional dependency
?RCS:
?RCS: Revision 3.0.1.1  1993/12/15  08:22:39  ram
?RCS: patch15: force zero exit status in all mkdep scripts
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:09:16  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?X:
?X: This unit generates the script 'mkdep' in the top-level directory.
?X: It is up to the makefile to use it for automatic dependencies
?X: generation (usage: 'mkdep [cppflags] -- *.c').
?X:
?MAKE:mkdep: spitshell startsh cpp +cppflags grep contains rm sed sort uniq \
 Getfile Oldconfig eunicefix cat +cc cppminus test pkgsrc _o
?MAKE: -pick add $@ %<
?S:mkdep:
?S: This variable holds the name of a command to generate makefile
?S: dependencies on the standard output. It is the pathname of the
?S: generated mkdep script.
?S:.
?F:mkdep
?T:IFS arg flags takeflags srcfile toplev filebase inc dir files file dep c
: find out how to generate dependencies
echo " "
echo "Checking how to generate makefile dependencies on your machine..." >&4
?X: We are in the UU directory
toplev=`cd ..;pwd`
$cat >dep.c <<'EOCP'
#include "dep.h"
EOCP
?X: Empty dep.h causes RIOS to barf
$cat >dep.h <<'EOCP'

EOCP
takeflags='flags=""
case
 "$@" in
*--*)
 for arg
 do
  shift
  case "$arg" in
  --) break;;
  *) flags="$flags $arg";;
  esac
 done;;
esac'
case "$mkdep" in
")
 ;;
*)
 if test -f "$mkdep" &&
  $mkdep dep.c >dep.out 2>/dev/null &&
  $contains "dep$_o:.*dep\.h" dep.out >/dev/null 2>&1
```

```
 then
  echo "$mkdep works."
?X: If they copied a config.sh from some other place, they'll have a working
?X: mkdep script probably, but not located at the top of the sources.  And
?X: the Makefiles generated by jmake expect an mkdep script in the top dir.
  case "$mkdep" in
  "$pkgsrc/mkdep");;
  *) echo "(copying it to $pkgsrc)"
   cp $mkdep $pkgsrc/mkdep 2>/dev/null
      if $pkgsrc/mkdep dep.c >dep.out 2>/dev/null &&
    $contains "dep$_o:.*dep\.h" dep.out >/dev/null 2>&1; then
    mkdep=$pkgsrc/mkdep
   else
    echo "Hmm... The copy failed or something... Guessing again..."
    mkdep=
   fi
   ;;
  esac
 else
  mkdep=
 fi
esac

case "$mkdep" in
")
?X: have to figure something out: Try cpp
?X: have
 to pass source names one by one to cpp...
 $spitshell > ../mkdep <<EOM
$startsh
$takeflags
for srcfile
do
 $cpp -M $cppflags \$flags \$srcfile 2>/dev/null
done
exit 0
EOM
 mkdep=$toplev/mkdep
 chmod +x $mkdep
 $eunicefix $mkdep
 if $mkdep dep.c >dep.out 2>/dev/null &&
  $contains "dep$_o:.*dep\.h" dep.out >/dev/null 2>&1
 then
  echo "Looks like we can use $cpp -M."
 else
  mkdep=
 fi
 ;;
```

```
esac

case "$mkdep" in
")
?X: have to figure something out: on NeXT, use cc -MM
?X: have to pass source names one by one to cc...
 $spitshell > ../mkdep <<EOM
$startsh
$takeflags
for srcfile
do
 $cc -MM $cppflags \$flags \$srcfile 2>/dev/null
done
exit 0
EOM
 mkdep=$toplev/mkdep
 chmod +x $mkdep
 $eunicefix $mkdep
 if $mkdep dep.c >dep.out 2>/dev/null &&
  $contains "dep$_o: dep.h" dep.out >/dev/null 2>&1
 then
  echo "Looks like we can use $cc -MM."
 else
  mkdep=
 fi
 ;;
esac

case "$mkdep" in
")
?X: still no luck -- try something fancier.
 $spitshell >../mkdep <<EOS
$startsh
$takeflags
for srcfile
do
 case
 "\$srcfile" in
 *.c) c='.c';;
 *.y) c='.y';;
 *.l) c='.l';;
 esac
 filebase=\`basename \$srcfile \$c\`
 <\$srcfile $cpp $cppminus $cppflags \$flags 2>/dev/null | \\
 $sed -e '/^# *[0-9]/!d' \\
  -e 's/^.*"\(.*\)".*\$/'\$filebase'$_o: \1/' \\
  -e 's|: \./|: |' \\
  -e 's|: *$|: '\$srcfile'|' | \\
```

```
 $grep -v '^#' | $sort | $uniq
done
exit 0
EOS
 mkdep=$toplev/mkdep
 chmod +x $mkdep
 $eunicefix $mkdep
 if $mkdep dep.c >dep.out 2>/dev/null &&
  $contains "dep$_o:.*dep\.h" dep.out >/dev/null 2>&1
 then
  echo "A shell script using $cpp does the trick."
 else
  echo "$cpp doesn't seem to be any use at all."
  $spitshell >../mkdep <<EOS
$startsh
$takeflags
files="\$@"
set X \$flags
shift
inc='.'
while test \$# -gt 0
do
 case "\$1" in
 -I)
  shift
  inc="\$inc:\$1"
  ;;
 -I*)
  dir=\`echo \$1 | sed -e 's/^-I//'\`
  inc="\$inc:\$dir"
  ;;
 esac
 shift
done
set X \$files
shift
trap "$rm -f /tmp/mkdep\$\$; exit 1" 1 2 3 15
for srcfile
do
 case "\$srcfile" in
 *.c) c='.c';;
 *.y) c='.y';;
 *.l)
 c='.l';;
 esac
 filebase=\`basename \$srcfile \$c\`
 echo \$filebase$_o: \$srcfile
 $grep '^#[  ]*include' \$srcfile /dev/null | \
```

```
 $sed -n -e 's/#[    ]*include[   ]*//' \\
  -e '/<\(.*\)>/ d' \\
  -e 's/:[^"]*"\([^"]*\)".*/: \1/' \\
  -e "s/\\.c:/$_o:/p" > /tmp/mkdep\$\$
?X: Deal with directories specified via -I requests to locate files
 IFS=': '
 while read file dep; do
  for dir in \$inc; do
   if $test -f "\$dir/\$dep"; then
    dep="\$dir/\$dep"
    break
   fi
  done
  echo "\$file: \$dep" | $sed -e 's,: \./,: ,'
 done </tmp/mkdep\$\$
 IFS=' '
 $rm -f /tmp/mkdep\$\$
done
exit 0
EOS
  mkdep=$toplev/mkdep
  chmod +x $mkdep
  $eunicefix $mkdep
  if $mkdep dep.c >dep.out 2>/dev/null &&
   $contains "dep$_o:.*dep\.h" dep.out >/dev/null 2>&1
  then
   cat << EOM

I can use a script with grep instead, but it will make some incorrect
dependencies, since it doesn't understand about conditional compilation.
Moreover, some dependencies may be missing, because scanning won't be
a
 recursive process.
If you have a program which generates makefile dependencies, you may want
to use it.  If not, you can use the script and edit the Makefile by hand
if you need to.
EOM
  else
   mkdep=
   cat << EOM

I can't seem to generate makefile dependencies at all!  Perhaps you have a
program that does?  If you don't, you might look at the mkdep script to
see if you can create one which works.
EOM
  fi
 fi
esac
```

```
echo " "
dflt="$mkdep"
fn=f~/
rp="Name of program to make makefile dependencies?"
. ./getfile
mkdep="$ans"
$rm -f dep.c dep.h dep$_o dep.out
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/mkdep.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_rdchk.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_rdchk.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_rdchk: Inlibc
?MAKE: -pick add $@ %<
?S:d_rdchk:
?S: This variable conditionally defines the HAS_RDCHK symbol, which
?S: indicates to the C program that the rdchk() routine is available
?S: to find out if there is input pending on an IO channel.
?S:.
?C:HAS_RDCHK (RDCHK):
?C: This symbol, if defined, indicates that the rdchk routine
 is available
?C: to find out if there is input pending on an IO channel.  Generally
?C: the routine is used only if FIONREAD and O_NDELAY aren't available.
?C:.
?H:#$d_rdchk HAS_RDCHK  /**/
?H:.
?LINT:set d_rdchk
: see if rdchk exists
set rdchk d_rdchk
eval $inlibc
```

Found in path(s):

* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_rdchk.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_machcthr: Inhdr usethreads
?MAKE: -pick add $@ %<
?S:i_machcthr:
?S: This variable conditionally defines the I_MACH_CTHREADS symbol,
?S: and indicates whether a C program should include <mach/cthreads.h>.
?S:.
?C:I_MACH_CTHREADS:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <mach/cthreads.h>.
?C:.
?H:#$i_machcthr   I_MACH_CTHREADS /**/
?H:.
: see if mach cthreads are available
if test "X$usethreads" = "X$define"; then
 set mach/cthreads.h i_machcthr
 eval $inhdr
else
 i_machcthr="$undef"
fi
```

Found
 in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/i_machcthr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: pidtype.U,v 3.0.1.1 1994/08/29 16:31:27 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: pidtype.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:31:27  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:33  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:pidtype: Myread Typedef
?MAKE: -pick add $@ %<
?S:pidtype:
?S: This variable defines PIDTYPE to be something like pid_t, int,
?S: ushort, or whatever type is used to declare process ids in the kernel.
?S:.
?C:Pid_t (PIDTYPE):
?C: This
 symbol holds the type used to declare process ids in the kernel.
?C: It can be int, uint, pid_t, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Pid_t $pidtype  /* PID type */
?H:.
?LINT: set pidtype
: see what type pids are declared as in the kernel
rp="What is the type of process ids on this system?"
set pid_t pidtype int stdio.h sys/types.h
eval $typedef_ask
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/pidtype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: nis.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:17:38  ram
?RCS: patch61: ensure suitable defaults for hostcat and friends
?RCS:
```

```
?RCS: Revision 3.0.1.2  1995/03/21  08:48:34  ram
?RCS: patch52: continued fix for NeXT NIS/NetInfo handling
?RCS:
?RCS: Revision 3.0.1.1  1995/02/15  14:16:23  ram
?RCS: patch51: now correctly handles NeXT using NIS rather than NetInfo
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:passcat groupcat hostcat:
 Myread Oldconfig test contains
?MAKE: -pick add $@ %<
?S:passcat:
?S: This variable contains a command that produces the text of the
?S: /etc/passwd file.  This is normally "cat /etc/passwd", but can be
?S: "ypcat passwd" when NIS is used.
?S:.
?S:groupcat:
?S: This variable contains a command that produces the text of the
?S: /etc/group file.  This is normally "cat /etc/group", but can be
?S: "ypcat group" when NIS is used.
?S:.
?S:hostcat:
?S: This variable contains a command that produces the text of the
?S: /etc/hosts file.  This is normally "cat /etc/hosts", but can be
?S: "ypcat hosts" when NIS is used.
?S:.
: see if we have to deal with yellow pages, now NIS.
?X: NeXT gives us some fun here, as always, by having both NIS (former YP)
?X: and NetInfo. But since it has both, it's ok to put the test inside the if.
?X: Contributed by Thomas Neumann <tom@smart.bo.open.de>.
if $test -d /usr/etc/yp || $test -d /etc/yp || $test -d /usr/lib/yp; then
 if $test -f /usr/etc/nibindd; then
  echo
 " "
  echo "I'm fairly confident you're on a NeXT."
@if passcat || groupcat
  echo " "
  rp='Do you get the passwd file via NetInfo?'
  dflt=y
  case "$passcat" in
  nidump*) ;;
  ") ;;
  *) dflt=n;;
  esac
  . ./myread
  case "$ans" in
  y*) passcat='nidump passwd .'
```

```
@if groupcat
   echo "(Assuming /etc/group is also distributed.)"
   groupcat='nidump group .'
@end
   ;;
  *) echo "You told me, so don't blame me."
   case "$passcat" in
   nidump*) passcat="
@if groupcat
     groupcat=";;
@end
   esac
@if groupcat
   echo "(Assuming /etc/group is handled the same way.)"
@end
   ;;
  esac
@end
@if hostcat
  echo " "
  rp='Do you get the hosts file via NetInfo?'
  dflt=y
  case "$hostcat" in
  nidump*) ;;
  ") ;;
  *) dflt=n;;
  esac
  . ./myread
  case "$ans" in
  y*) hostcat='nidump hosts .';;
  *) case "$hostcat" in
   nidump*) hostcat=";;
   esac
   ;;
  esac
@end
 fi
@if passcat || groupcat
 case "$passcat" in
 nidump*) ;;
 *)
  case "$passcat" in
  *ypcat*) dflt=y;;
  ")
 if $contains '^\+' /etc/passwd >/dev/null 2>&1; then
    dflt=y
   else
    dflt=n
```

```
  fi;;
 *) dflt=n;;
 esac
 echo " "
 rp='Are you getting the passwd file via yellow pages?'
 . ./myread
 case "$ans" in
 y*) passcat='ypcat passwd'
@if groupcat
  echo "(Assuming /etc/group is also distributed.)"
  groupcat='ypcat group'
@end
  ;;
 *) passcat='cat /etc/passwd'
@if groupcat
  echo "(Assuming /etc/group is also local.)"
  groupcat='cat /etc/group'
@end
  ;;
 esac
 ;;
esac
@end
@if hostcat
case "$hostcat" in
nidump*) ;;
*)
 case "$hostcat" in
 *ypcat*) dflt=y;;
 ") if $contains '^\+' /etc/passwd >/dev/null 2>&1; then
   dflt=y
  else
   dflt=n
  fi;;
 *) dflt=n;;
 esac
 echo " "
 rp='Are you getting the hosts file via yellow pages?'
 . ./myread
 case "$ans" in
 y*) hostcat='ypcat hosts';;
 *) hostcat='cat /etc/hosts';;
 esac
 ;;
esac
@end
fi
?X: Ensure suitable default -- Manoj Srivastava
```

```
case "$hostcat" in
") hostcat=':'
 $test -f /etc/hosts && hostcat='cat
 /etc/hosts';;
esac
case "$groupcat" in
") groupcat=':'
 $test -f /etc/group && groupcat='cat /etc/group';;
esac
case "$passcat" in
") passcat=':'
 $test -f /etc/passwd && passcat='cat /etc/passwd';;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/nis.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_brokstat.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_brokstat.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:30:53  ram
?RCS: patch61: created
?RCS:
?MAKE:d_brokstat: cat contains cppstdin cppminus +cppflags rm Setvar
?MAKE: -pick add $@ %<
?S:d_brokstat:
?S: This variable conditionally defines STAT_MACROS_BROKEN if some
?S: of the S_IS*() macros from <sys/stat.h> give false positive on
?S: regular files.
?S:.
?C:STAT_MACROS_BROKEN:
?C: This symbol, if defined, indicates that the S_IS*() stat macros
?C: such
 as S_ISBLK() give false positive and are thus unusable.
?C: Your best bet is then to supply your own set.
?C:.
?H:#$d_brokstat STAT_MACROS_BROKEN  /**/
?H:.
```

```
?F:!try.c !try
?LINT:set d_brokstat
?LINT:usefile try
?X: This test inspired by autoconf -- RAM, 28/02/97
: are stat macros sane?
echo " "
echo "Checking whether your stat() macros are broken..."
$cat >try.c <<'EOC'
#include <sys/types.h>
#include <sys/stat.h>

#if defined(S_ISBLK) && defined(S_IFDIR)
#if S_ISBLK(S_IFDIR)
Broken
#endif
#endif

#if defined(S_ISBLK) && defined(S_IFCHR)
#if S_ISBLK(S_IFCHR)
Broken
#endif
#endif

#if defined(S_ISLNK) && defined(S_IFREG)
#if S_ISLNK(S_IFREG)
Broken.
#endif
#endif

#if defined(S_ISSOCK) && defined(S_IFREG)
#if S_ISSOCK(S_IFREG)
Broken.
#endif
#endif
EOC
$cppstdin $cppflags $cppminus <try.c 2>/dev/null >try
if $contains Broken try >/dev/null 2>&1; then
 echo "Alas, they are.  I'll use my own macro set then." >&4
 val="$define"
else
 echo "Nope, working just fine." >&4
 val="$undef"
fi
$rm
 -f try try.c
set d_brokstat
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_brokstat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_syspoll.U 15 2006-08-30 18:21:51Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:i_syspoll: Inhdr
?MAKE: -pick add $@ %<
?S:i_syspoll:
?S: This variable conditionally defines the I_SYS_POLL symbol, which
?S: indicates to the C program that it should include <sys/poll.h>.
?S:.
?C:I_SYS_POLL:
?C: This symbol, if defined, indicates that the program may include
?C: <sys/poll.h>.  When I_POLL is also defined, it's probably safest
?C: to only include <poll.h>.
?C:.
?H:#$i_syspoll I_SYS_POLL /**/
?H:.
?LINT:set i_syspoll
: see if there is
 a sys/poll.h file
set sys/poll.h i_syspoll
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_syspoll.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getprotby.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getpbyname d_getpbynumber: Inlibc
?MAKE: -pick add $@ %<
```

```
?S:d_getpbyname:
?S: This variable conditionally defines the HAS_GETPROTOBYNAME
?S: symbol, which indicates to the C program that the
?S: getprotobyname() routine is available to look up protocols
?S: by their name.
?S:.
?S:d_getpbynumber:
?S: This variable conditionally defines the HAS_GETPROTOBYNUMBER
?S: symbol, which indicates to the C program that the
?S: getprotobynumber() routine is available to look up protocols
?S: by their number.
?S:.
?C:HAS_GETPROTOBYNAME:
?C: This symbol, if defined, indicates that the getprotobyname()
?C: routine is available to look up protocols by their name.
?C:.
?C:HAS_GETPROTOBYNUMBER:
?C: This
 symbol, if defined, indicates that the getprotobynumber()
?C: routine is available to look up protocols by their number.
?C:.
?H:#$d_getpbyname HAS_GETPROTOBYNAME  /**/
?H:#$d_getpbynumber HAS_GETPROTOBYNUMBER  /**/
?H:.
?LINT:set d_getpbyname d_getpbynumber
: Optional checks for getprotobyname and getprotobynumber

@if d_getpbyname || HAS_GETPROTOBYNAME
: see if getprotobyname exists
set getprotobyname d_getpbyname
eval $inlibc
@end

@if d_getpbynumber || HAS_GETPROTOBYNUMBER
: see if getprotobynumber exists
set getprotobynumber d_getpbynumber
eval $inlibc
@end
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_getprotby.U
No license file was found, but licenses were detected in source scan.

```
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:sizesize: Myread Typedef sizetype Compile run i_stdlib
?MAKE: -pick add $@ %<
?S:sizesize:
?S: This variable contains the size of a sizetype in bytes.
?S:.
?C:Size_t_size:
?C: This symbol holds the size of a Size_t in bytes.
?C:.
?H:#define Size_t_size $sizesize  /**/
?H:.
?T:yyy zzz
?F:!try
: Check size of size
echo " "
case "$sizetype" in
*_t) zzz="$sizetype" ;;
*)   zzz="filesize" ;;
esac
echo "Checking the size of $zzz..." >&4
cat > try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include
 <stdlib.h>
#endif
int main() {
   printf("%d\n", (int)sizeof($sizetype));
   exit(0);
}
EOCP
set try
if eval $compile_ok; then
 yyy=`$run ./try`
 case "$yyy" in
 ") sizesize=4
  echo "(I can't execute the test program--guessing $sizesize.)" >&4
  ;;
 *) sizesize=$yyy
  echo "Your $zzz size is $sizesize bytes."
  ;;
 esac
```

```
else
 sizesize=4
 echo "(I can't compile the test program--guessing $sizesize.)" >&4
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/sizesize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: maildir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: maildir.U,v $
?RCS: Revision 3.0.1.1  1993/12/15  08:21:56  ram
?RCS: patch15: now also looks under /var/mail for BSD/386
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:maildir maildirexp: Getfile Loc Oldconfig
?MAKE: -pick add $@ %<
?S:maildir:
?S: This variable contains the name of the directory in which mail is
?S: spooled. Programs using this variable must be prepared to deal with
?S: ~name
 substitutions.
?S:.
?S:maildirexp:
?S: This is the same as the maildir variable, but is filename expanded
?S: at configuration time, for programs not willing to deal with it at
?S: run-time.
?S:.
: determine where mail is spooled
case "$maildir" in
") dflt=`./loc . /usr/spool/mail /usr/spool/mail /usr/mail /var/mail`;;
*) dflt="$maildir";;
esac
echo " "
fn=d~
rp='Where is yet-to-be-read mail spooled?'
```

```
. ./getfile
maildir="$ans"
maildirexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/maildir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pause.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_pause.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:09:54  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_pause: Inlibc
?MAKE: -pick add $@ %<
?S:d_pause:
?S: This variable conditionally defines the HAS_PAUSE symbol, which
?S: indicates to the C program that the pause() routine is available
?S: to suspend a process until a signal is received.
?S:.
?C:HAS_PAUSE :
?C: This symbol,
 if defined, indicates that the pause routine is
?C: available to suspend a process until a signal is received.
?C:.
?H:#$d_pause HAS_PAUSE  /**/
?H:.
?LINT:set d_pause
: see if pause exists
set pause d_pause
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_pause.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_havetlib.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_havetlib.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:36:31  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: likewise for .o replaced by $_o
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:44:06  ram
?RCS: patch23: added AIX support to accept shared lib stub as termlib (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_havetlib termlib: cat contains Myread Loc
 Filexp Oldconfig libpth \
 test uname _a _o
?MAKE: -pick add $@ %<
?S:d_havetlib:
?S: This variable conditionally defines the HAS_TERMLIB symbol, which
?S: indicates to the C program that termlib-style routines are available.
?S:.
?S:termlib:
?S: This variable contains the argument to pass to the loader to get
?S: termlib-style routines.  It is up to the Makefile.SH to make sure
?S: the value gets to the right command.  Note that on many systems the
?S: termlib routines are emulated by the curses or terminfo library.
?S:.
?C:HAS_TERMLIB (HAVETERMLIB):
?C: This symbol, when defined, indicates that termlib-style routines
?C: are available.  There is nothing to include.
?C:.
?H:#$d_havetlib HAS_TERMLIB /**/
?H:.
?T:xxx
: where do we get termlib routines from
echo " "
xxx=`./loc libcurses$_a x $libpth`
case "$xxx" in
```

```
/*)
 ar t $xxx >grimble
 if $contains tputs$_o grimble >/dev/null 2>&1; then
  termlib='-lcurses'
  d_havetlib="$define"
  echo "Terminfo library found." >&4
 elif $test "x`$uname
 2>/dev/null`" = xAIX; then
  # Ok, do the AIX shr.o fun thing
  /usr/ccs/bin/nm -en $xxx 2>/dev/null >grimble
  if $contains '^tputs .*|extern|' grimble >/dev/null 2>&1; then
   termlib='-lcurses'
   d_havetlib="$define"
   echo "AIX Terminfo library found." >&4
  else
   xxx=x
  fi
 else
  xxx=x
 fi
 rm -f grimble
 ;;
esac
case "$xxx" in
x)
 xxx=`./loc libtermlib$_a x $libpth`
 case "$xxx" in
 /usr/lib*|/lib*)
  termlib='-ltermlib'
  d_havetlib="$define"
  echo "Termlib library found." >&4
  ;;
 /*)
  termlib="$xxx"
  d_havetlib="$define"
  echo "Termlib library found." >&4
  ;;
 *)
  xxx=`./loc libtermcap$_a x $libpth`
  case "$xxx" in
  /usr/lib*|/lib*)
   termlib='-ltermcap'
   d_havetlib="$define"
   echo "Termcap library found." >&4
   ;;
  /*)
   termlib="$xxx"
   d_havetlib="$define"
```

```
   echo "Termcap library found." >&4
   ;;
  *)
   case "$termlib" in
   ")
    dflt=y
rp="Your system appears to NOT have termlib-style routines. Is this true?"
    . ./myread
    case "$ans"
 in
    n*|f*) d_havetlib="$define"
     $cat <<'EOM'
Then where are the termlib-style routines kept? Specify either -llibname
or a full pathname (~name ok).

EOM
     dflt="
     rp='Specify termlib path:'
     . ./myread
     termlib=`./filexp $ans`
     ;;
    *)
     d_havetlib="$undef"
     termlib="
     echo "You will have to play around with term.c then." >&4
     ;;
    esac
   echo " ";;
   *)  echo "You said termlib was $termlib before." >&4;;
   esac;;
  esac;;
 esac;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_havetlib.U
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_gai_strerror: Compile cat rm_try run Oldconfig Setvar

```
?MAKE: -pick add $@ %<
?S:d_gai_strerror:
?S: This variable conditionally defines the HAS_GAI_STRERROR symbol
?S: if the gai_strerror() routine is available and can be used to
?S: translate error codes returned by getaddrinfo() into human
?S: readable strings.
?S:.
?C:HAS_GAI_STRERROR:
?C: This symbol, if defined, indicates that the gai_strerror routine
?C: is available to translate error codes returned by getaddrinfo()
?C: into human readable strings.
?C:.
?H:#$d_gai_strerror
 HAS_GAI_STRERROR /**/
?H:.
?F:!try
?LINT: set d_gai_strerror
: look for gai_strerror
echo " "
$cat >try.c <<'EOCP'
#include <sys/types.h>
#include <sys/socket.h>
#include <netdb.h>
int main ()
{
   return (gai_strerror (0) ? 0 : 1);
   }
EOCP
set try
?X: if $cc $ccflags $ldflags -o try try.c $libs >/dev/null 2>&1 ; then
val="$undef"
if eval $compile; then
   `$run ./try`
   case "$?" in
 0)  echo "A working gai_strerror() found." >&4
     val="$define" ;;
 *)  echo "gai_strerror() found, but it doesn't work" >&4
     ;;
 esac
else
   echo "gai_strerror() NOT found." >&4
   fi
set d_gai_strerror
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/U/perl/d_gai_strerror.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: n.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: n.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:n c: contains
?MAKE: -pick add $@ %<
?S:n:
?S: This variable contains the -n flag if that is what causes the echo
?S: command to suppress newline.  Otherwise it is null.  Correct usage is
?S:     $echo $n "prompt for a question: $c".
?S:.
?S:c:
?S: This variable contains the \c string if that is what causes the echo
?S: command to suppress newline.
  Otherwise it is null.  Correct usage is
?S:     $echo $n "prompt for a question: $c".
?S:.
: first determine how to suppress newline on echo command
echo " "
echo "Checking echo to see how to suppress newlines..."
(echo "hi there\c" ; echo " ") >.echotmp
if $contains c .echotmp >/dev/null 2>&1 ; then
 echo "...using -n."
 n='-n'
 c=''
else
 cat <<'EOM'
...using \c
EOM
 n=''
 c='\c'
fi
echo $n "The star should be here-->$c"
echo '*'
rm -f .echotmp
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/n.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: privlib.U,v $
?RCS: Revision 3.0.1.4  1995/09/25  09:17:09  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:44:23  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:31:52  ram
?RCS: patch32: now uses installation prefix
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:12:34  ram
?RCS: patch10: added support for /local/lib (WED)
?RCS: patch10: prompt phrasing made
 more explicit (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:privlib privlibexp installprivlib: afs package cat Getfile \
 Oldconfig Prefixit test
?MAKE: -pick add $@ %<
?Y:TOP
?S:privlib:
?S: This variable contains the eventual value of the PRIVLIB symbol,
?S: which is the name of the private library for this package.  It may
?S: have a ~ on the front. It is up to the makefile to eventually create
?S: this directory while performing installation (with ~ substitution).
?S:.
?S:privlibexp:
?S: This variable is the ~name expanded version of privlib, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
```

```
?S:installprivlib:
?S: This variable is really the same as privlibexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?C:PRIVLIB:
?C: This symbol contains the name of the private library for this package.
?C: The library is
 private in the sense that it needn't be in anyone's
?C: execution path, but it should be accessible by the world.  The program
?C: should be prepared to do ~ expansion.
?C:.
?C:PRIVLIB_EXP:
?C: This symbol contains the ~name expanded version of PRIVLIB, to be used
?C: in programs that are not prepared to deal with ~ expansion at run-time.
?C:.
?H:#define PRIVLIB "$privlib"  /**/
?H:#define PRIVLIB_EXP "$privlibexp"  /**/
?H:.
: determine where private executables go
set dflt privlib lib/$package
eval $prefixit
$cat <<EOM

There are some auxiliary files for $package that need to be put into a
private library directory that is accessible by everyone.

EOM
fn=d~+
rp='Pathname where the private library files will reside?'
. ./getfile
if $test "X$privlibexp" != "X$ansexp"; then
 installprivlib=''
fi
privlib="$ans"
privlibexp="$ansexp"
if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
private files reside from the directory in which they are installed
 (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installprivlib" in
 '') dflt=`echo $privlibexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installprivlib";;
```

```
 esac
 fn=de~
 rp='Where will private files be installed?'
 . ./getfile
 installprivlib="$ans"
else
 installprivlib="$privlibexp"
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/privlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: usrinc.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:27:12  ram
?RCS: patch61: don't ask for the include path unless they are on a MIPS
?RCS:
?RCS: Revision 3.0.1.2  1995/05/12  12:24:36  ram
?RCS: patch54: ensure that ./mips always exists (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:18:31  ram
?RCS: patch23: ensure usrinc value is preserved across sessions (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:usrinc incpath mips_type:
 test cat echo n c Getfile Guess \
 Oldconfig eunicefix contains rm
?MAKE: -pick add $@ %<
?S:usrinc:
?S: This variable holds the path of the include files, which is
?S: usually /usr/include. It is mainly used by other Configure units.
?S:.
?S:incpath:
?S: This variable must preceed the normal include path to get hte
?S: right one, as in "$incpath/usr/include" or "$incpath/usr/lib".
```

```
?S: Value can be "" or "/bsd43" on mips.
?S:.
?S:mips_type:
?S: This variable holds the environment type for the mips system.
?S: Possible values are "BSD 4.3" and "System V".
?S:.
?D:usrinc='/usr/include'
?LINT:create mips
?T:xxx_prompt
?F:./mips
: What should the include directory be ?
echo " "
$echo $n "Hmm...  $c"
dflt='/usr/include'
incpath=''
?X: mips_type is used later, to add -DSYSTYPE_BSD43 to cppflags if needed.
mips_type=''
?X:
?X: Cannot put the following in Guess, or we get a circular dependency.
?X:
if $test -f /bin/mips && /bin/mips; then
 echo "Looks like a MIPS system..."
 $cat >usr.c
 <<'EOCP'
#ifdef SYSTYPE_BSD43
/bsd43
#endif
EOCP
 if cc -E usr.c > usr.out && $contains / usr.out >/dev/null 2>&1; then
  dflt='/bsd43/usr/include'
  incpath='/bsd43'
  mips_type='BSD 4.3'
 else
  mips_type='System V'
 fi
 $rm -f usr.c usr.out
 echo "and you're compiling with the $mips_type compiler and libraries."
 xxx_prompt=y
 echo "exit 0" >mips
else
 echo "Doesn't look like a MIPS system."
 xxx_prompt=n
 echo "exit 1" >mips
fi
chmod +x mips
$eunicefix mips
case "$usrinc" in
'') ;;
```

```
*) dflt="$usrinc";;
esac
case "$xxx_prompt" in
y) fn=d/
 echo " "
 rp='Where are the include files you want to use?'
 . ./getfile
 usrinc="$ans"
 ;;
*) usrinc="$dflt"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/usrinc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_libutil.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_libutil: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_libutil:
?S: This variable conditionally defines the I_LIBUTIL symbol, and indicates
?S: whether a C program should include <libutil.h>.
?S:.
?C:I_LIBUTIL:
?C: This symbol, if defined, indicates that <libutil.h> exists and
?C: should be included.
?C:.
?H:#$i_libutil I_LIBUTIL  /**/
?H:.
?LINT:set i_libutil
: see if this is a libutil.h system
set libutil.h i_libutil
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_libutil.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_pwd.U,v 3.0.1.2 1995/07/25 14:10:57 ram Exp $
```

```
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: i_pwd.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  14:10:57  ram
?RCS: patch56: use setvar so hint file values can override our guesses (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:03:27  ram
?RCS: patch23: had forgotten cppminus in cppstdin test (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:25  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit checks whether there is a pwd system or not
?X:
?MAKE:i_pwd d_pwquota d_pwage d_pwchange
 d_pwclass d_pwexpire \
 d_pwgecos d_pwpasswd d_pwcomment: \
 contains rm cppstdin cppflags cppminus Inhdr Findhdr Setvar
?MAKE: -pick add $@ %<
?S:i_pwd:
?S: This variable conditionally defines I_PWD, which indicates
?S: to the C program that it should include <pwd.h>.
?S:.
?S:d_pwquota:
?S: This variable conditionally defines PWQUOTA, which indicates
?S: that struct passwd contains pw_quota.
?S:.
?S:d_pwage:
?S: This variable conditionally defines PWAGE, which indicates
?S: that struct passwd contains pw_age.
?S:.
?S:d_pwchange:
?S: This variable conditionally defines PWCHANGE, which indicates
?S: that struct passwd contains pw_change.
?S:.
?S:d_pwclass:
?S: This variable conditionally defines PWCLASS, which indicates
?S: that struct passwd contains pw_class.
?S:.
?S:d_pwexpire:
```

```
?S: This variable conditionally defines PWEXPIRE, which indicates
?S: that struct passwd contains pw_expire.
?S:.
?S:d_pwcomment:
?S: This variable conditionally defines PWCOMMENT, which indicates
?S: that
 struct passwd contains pw_comment.
?S:.
?S:d_pwgecos:
?S: This variable conditionally defines PWGECOS, which indicates
?S: that struct passwd contains pw_gecos.
?S:.
?S:d_pwpasswd:
?S: This variable conditionally defines PWPASSWD, which indicates
?S: that struct passwd contains pw_passwd.
?S:.
?C:I_PWD:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <pwd.h>.
?C:.
?C:PWQUOTA:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_quota.
?C:.
?C:PWAGE:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_age.
?C:.
?C:PWCHANGE:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_change.
?C:.
?C:PWCLASS:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_class.
?C:.
?C:PWEXPIRE:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_expire.
?C:.
?C:PWCOMMENT:
?C: This
 symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_comment.
?C:.
?C:PWGECOS:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_gecos.
```

```
?C:.
?C:PWPASSWD:
?C: This symbol, if defined, indicates to the C program that struct passwd
?C: contains pw_passwd.
?C:.
?H:#$i_pwd I_PWD  /**/
?H:#$d_pwquota PWQUOTA /**/
?H:#$d_pwage PWAGE /**/
?H:#$d_pwchange PWCHANGE /**/
?H:#$d_pwclass PWCLASS /**/
?H:#$d_pwexpire PWEXPIRE /**/
?H:#$d_pwcomment PWCOMMENT /**/
?H:#$d_pwgecos PWGECOS /**/
?H:#$d_pwpasswd PWPASSWD /**/
?H:.
?LINT: set i_pwd d_pwquota d_pwage d_pwchange d_pwclass d_pwexpire d_pwcomment
?LINT: set d_pwgecos d_pwpasswd
?T:xxx
: see if this is a pwd.h system
set pwd.h i_pwd
eval $inhdr

case "$i_pwd" in
$define)
 xxx=`./findhdr pwd.h`
 $cppstdin $cppflags $cppminus < $xxx >$$.h

 if $contains 'pw_quota' $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_pwquota
 eval $setvar

 if $contains 'pw_age'
 $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 set d_pwage
 eval $setvar

 if $contains 'pw_change' $$.h >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
```

```
fi
set d_pwchange
eval $setvar

if $contains 'pw_class' $$.h >/dev/null 2>&1; then
 val="$define"
else
 val="$undef"
fi
set d_pwclass
eval $setvar

if $contains 'pw_expire' $$.h >/dev/null 2>&1; then
 val="$define"
else
 val="$undef"
fi
set d_pwexpire
eval $setvar

if $contains 'pw_comment' $$.h >/dev/null 2>&1; then
 val="$define"
else
 val="$undef"
fi
set d_pwcomment
eval $setvar

if $contains 'pw_gecos' $$.h >/dev/null 2>&1; then
 val="$define"
else
 val="$undef"
fi
set d_pwgecos
eval $setvar

if $contains 'pw_passwd' $$.h >/dev/null 2>&1; then
 val="$define"
else
 val="$undef"
fi
set d_pwpasswd
eval $setvar

$rm -f $$.h
;;
*)
val="$undef";
```

```
 set d_pwquota; eval $setvar
 set d_pwage; eval $setvar
 set d_pwchange; eval $setvar
 set d_pwclass; eval $setvar
 set
 d_pwexpire; eval $setvar
 set d_pwcomment; eval $setvar
 set d_pwgecos; eval $setvar
 set d_pwpasswd; eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_pwd.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sigvec.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sigvec.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:45:37  ram
?RCS: patch61: there is now a separate routine for sigaction()
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X: d_sigvec.U, from d_ftime.U 1.0
?X:
?MAKE:d_sigvec d_sigvectr d_sigintrp: Csym Inlibc Setvar
?MAKE: -pick add $@ %<
?S:d_sigvec:
?S: This variable conditionally defines the HAS_SIGVEC symbol, which indicates
?S: that BSD
 reliable signals are supported.
?S:.
?S:d_sigvectr:
?S: This variable conditionally defines the HAS_SIGVECTOR symbol, which
?S: indicates that the sigvec() routine is called sigvector() instead, for
?S: reasons known only to Hewlett-Packard.
?S:.
```

```
?S:d_sigintrp:
?S: This variable conditionally defines the HAS_SIGINTRP symbol, which
?S: indicates that the siginterrupt() routine is available.
?S:.
?C:HAS_SIGVEC (SIGVEC):
?C: This symbol, if defined, indicates that BSD reliable signals are
?C: supported.
?C:.
?C:HAS_SIGVECTOR (SIGVECTOR):
?C: This symbol, if defined, indicates that the sigvec() routine is called
?C: sigvector() instead, and that sigspace() is provided instead of
?C: sigstack().  This is probably only true for HP-UX.
?C:.
?C:HAS_SIGINTRP (SIGINTRP):
?C: This symbol, if defined, indicates that the siginterrupt() routine
?C: is available.
?C:.
?H:#$d_sigvec HAS_SIGVEC /**/
?H:#$d_sigvectr HAS_SIGVECTOR /**/
?H:#$d_sigintrp HAS_SIGINTRP /**/
?H:.
?T:val
?LINT:set d_sigvec d_sigintrp
@if
 d_sigvectr || d_sigvec || HAS_SIGVEC || HAS_SIGVECTOR
: see if sigvector exists -- since sigvec will match the substring
echo " "
if set sigvector val -f d_sigvectr; eval $csym; $val; then
 echo 'sigvector() found--you must be running HP-UX.' >&4
 val="$define"; set d_sigvectr; eval $setvar
 val="$define"; set d_sigvec; eval $setvar
else
: try the original name
 d_sigvectr="$undef"
 if set sigvec val -f d_sigvec; eval $csym; $val; then
  echo 'sigvec() found.' >&4
  val="$define"; set d_sigvec; eval $setvar
 else
  echo 'sigvec() not found--race conditions with signals may occur.' >&4
  val="$undef"; set d_sigvec; eval $setvar
 fi
fi

@end
@if d_sigintrp || HAS_SIGINTRP
: see if we have siginterrupt
set siginterrupt d_sigintrp
eval $inlibc
```

@end

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sigvec.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_link.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_link.U,v $
?RCS: Revision 3.0.1.1  1993/08/25  14:01:13  ram
?RCS: patch6: created for completeness
?RCS:
?MAKE:d_link: Inlibc
?MAKE: -pick add $@ %<
?S:d_link:
?S: This variable conditionally defines HAS_LINK if link() is
?S: available to create hard links.
?S:.
?C:HAS_LINK:
?C: This symbol, if defined, indicates that the link routine is
?C: available to create hard links.
?C:.
?H:#$d_link HAS_LINK /**/
?H:.
?LINT:set d_link
: see if link exists
set
 link d_link
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_link.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_gethname.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_gethname.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:13:00  ram
?RCS: patch36: call ./xenix explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:11  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_gethname d_uname d_phostname aphostname: phostname cat \
 myhostname package d_portable Loc echo n c +i_whoami +usrinc \
 Myread Guess Oldconfig Csym
?MAKE: -pick add $@ %<
?S:d_gethname:
?S: This variable conditionally
 defines the HAS_GETHOSTNAME symbol, which
?S: indicates to the C program that the gethostname() routine may be
?S: used to derive the host name.
?S:.
?S:d_uname:
?S: This variable conditionally defines the HAS_UNAME symbol, which
?S: indicates to the C program that the uname() routine may be
?S: used to derive the host name.
?S:.
?S:d_phostname:
?S: This variable conditionally defines the HAS_PHOSTNAME symbol, which
?S: contains the shell command which, when fed to popen(), may be
?S: used to derive the host name.
?S:.
?S:aphostname:
?S: This variable contains the command which can be used to compute the
?S: host name. The command is fully qualified by its absolute path, to make
?S: it safe when used by a process with super-user privileges.
?S:.
?C:HAS_GETHOSTNAME (GETHOSTNAME):
?C: This symbol, if defined, indicates that the C program may use the
?C: gethostname() routine to derive the host name.  See also HAS_UNAME
?C: and PHOSTNAME.
?C:.
?C:HAS_UNAME (UNAME):
?C: This symbol,
 if defined, indicates that the C program may use the
?C: uname() routine to derive the host name.  See also HAS_GETHOSTNAME
```

```
?C: and PHOSTNAME.
?C:.
?C:PHOSTNAME:
?C: This symbol, if defined, indicates the command to feed to the
?C: popen() routine to derive the host name.  See also HAS_GETHOSTNAME
?C: and HAS_UNAME. Note that the command uses a fully qualified path,
?C: so that it is safe even if used by a process with super-user
?C: privileges.
?C:.
?C:HAS_PHOSTNAME:
?C: This symbol, if defined, indicates that the C program may use the
?C: contents of PHOSTNAME as a command to feed to the popen() routine
?C: to derive the host name.
?C:.
?H:?%<:#$d_gethname HAS_GETHOSTNAME /**/
?H:?%<:#$d_uname HAS_UNAME  /**/
?H:?%<:#$d_phostname HAS_PHOSTNAME /**/
?H:?%<:#ifdef HAS_PHOSTNAME
?H:?%<:#define PHOSTNAME "$aphostname" /* How to get the host name */
?H:?%<:#endif
?H:.
?T:file val call
?LINT:change i_whoami
: see how we will look up host name
echo " "
call=''
@if HAS_GETHOSTNAME
if
 set gethostname val -f d_gethname; eval $csym; $val; then
 echo 'gethostname() found.' >&4
 d_gethname="$define"
 call=gethostname
fi
@end
@if HAS_UNAME
if set uname val -f d_uname; eval $csym; $val; then
 if ./xenix; then
  $cat <<'EOM'
uname() was found, but you're running xenix, and older versions of xenix
have a broken uname(). If you don't really know whether your xenix is old
enough to have a broken system call, use the default answer.

EOM
  dflt=y
  case "$d_uname" in
  "$define") dflt=n;;
  esac
  rp='Is your uname() broken?'
```

```
  . ./myread
  case "$ans" in
  n*) d_uname="$define"; call=uname;;
  esac
 else
  echo 'uname() found.' >&4
  d_uname="$define"
  case "$call" in
  ") call=uname ;;
  esac
 fi
fi
@end
case "$d_gethname" in
") d_gethname="$undef";;
esac
case "$d_uname" in
") d_uname="$undef";;
esac
@if PHOSTNAME || MYHOSTNAME
case "$d_uname$d_gethname" in
*define*)
 dflt=n
 cat <<EOM

Every now and then someone has a $call() that lies about the hostname
but can't be fixed
 for political or economic reasons.  If you wish, I can
@if MYHOSTNAME && PHOSTNAME
pretend $call() isn't there and maybe compile in the hostname or
compute it from the '$phostname' command at run-time.
@elsif MYHOSTNAME
pretend $call() isn't there and maybe compile in the hostname.
@elsif PHOSTNAME
pretend $call() isn't there and maybe compute hostname at run-time
thanks to the '$phostname' command.
@elsif WHOAMI
get the hostname from whomai.h (provided you have one).
@else
simply ignore your host name and use someting like "noname" instead.
@end

EOM
 rp="Shall I ignore $call() from now on?"
 . ./myread
 case "$ans" in
 y*) d_uname="$undef" d_gethname="$undef"; $echo $n "Okay...$c";;
 esac;;
```

```
esac
@end
@if PHOSTNAME || aphostname
?X: Compute the full path name for the command
case "$phostname" in
") aphostname=";;
*) case "$aphostname" in
 /*) ;;
 *) set X $phostname
  shift
  file=$1
  shift
  file=`./loc $file $file $pth`
  aphostname=`echo $file $*`
  ;;
 esac
 ;;
esac
@end
@if
 PHOSTNAME && MYHOSTNAME
case "$d_uname$d_gethname" in
*define*) ;;
*)
 case "$phostname" in
 ") ;;
 *)
  $cat <<EOT

There is no gethostname() or uname() on this system.  You have two
possibilities at this point:

1)  You can have your host name ($myhostname) compiled into $package, which
   lets $package start up faster, but makes your binaries non-portable, or
2)  you can have $package use a

 popen("$aphostname","r")

   which will start slower but be more portable.

@ if WHOAMI
Option 1 will give you the option of using whoami.h if you have one.
@ end
If you want option 2 but with a different command, you can edit config.sh at
the end of this shell script.

EOT
  case "$d_phostname" in
```

```
  "$define") dflt=n;;
  "$undef")  dflt=y;;
  ")
   case "$d_portable" in
   "$define") dflt=n ;;
   *) dflt=y ;;
   esac;;
  esac
  rp="Do you want your host name compiled in?"
  . ./myread
  case "$ans" in
  n*) d_phostname="$define" ;;
  *) aphostname=''; d_phostname="$undef";;
  esac;;
 esac
 case
 "$aphostname" in
 ")
@ if WHOAMI
  case "$i_whoami" in
  "$define")
   dflt=y
   $cat <<EOM

No hostname function--you can either use the whoami.h file, which has this line:

 `grep sysname $usrinc/whoami.h`

or you can have the name we came up with earlier ($myhostname) hardwired in.
EOM
   rp="Use whoami.h to get hostname?"
   . ./myread
   case "$ans" in
   n*) i_whoami="$undef";;
   esac
   ;;
  "$undef")
   $cat <<EOM
No hostname function and no whoami.h -- hardwiring "$myhostname".
EOM
   ;;
  esac;;
@ else
  echo 'No hostname function -- hardwiring "'$myhostname'".' >&4;;
@ end
 esac;;
esac
@elsif PHOSTNAME
```

```
case "$d_uname$d_gethname" in
*define*) ;;
*)
 case "$phostname" in
 ")
@ if WHOAMI
  case "$i_whoami" in
  "$define")
   $cat <<EOM

No hostname function--we'll use the whoami.h file, which has this line:

 `grep sysname $usrinc/whoami.h`

EOM
   ;;
  *) echo "There will be no way for $package to get your hostname." >&4;;
  esac;;
@ else
  echo "There will be no way
 for $package to get your hostname." >&4;;
@ end
 *)
 echo "I'll use 'popen("""$aphostname"", "r")"" to get your hostname." >&4
  ;;
 esac;;
esac
@elsif MYHOSTNAME
case "$d_uname$d_gethname" in
*define*) ;;
*)
@ if WHOAMI
 case "$i_whoami" in
 "$define")
  dflt=y
  $cat <<EOM

No hostname function--you can either use the whoami.h file, which has this line:

 `grep sysname $usrinc/whoami.h`

or you can have the name we came up with earlier ($myhostname) hardwired in.
EOM
  rp="Use whoami.h to get hostname?"
  . ./myread
  case "$ans" in
  n*) i_whoami="$undef";;
  esac
```

```
  ;;
 "$undef")
  echo 'No whoami.h--hardwiring "'$myhostname'".' >&4;;
 esac;;
@ else
 echo 'Hardwiring "'$myhostname'".' >&4;;
@ end
esac
@end
case "$d_phostname" in
") d_phostname="$undef";;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_gethname.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Extractall.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extractall.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:00:43  ram
?RCS: patch61: created
?RCS:
?X:
?X: If extraction has been requested, load the configuration file, perform
?X: the extraction and exit.
?X:
?X: This unit was originally a part of Options.U. It had to be removed from
?X: it to prevent a dependency cycle: Extract -> src -> Options -> Extract
?X: The Begin.U unit now requires us before beginning to do anything
?X: interesting, to ensure
 proper semantics. -- RAM, 15/03/96
?X:
?MAKE:Extractall: Extract Options
?MAKE: -pick wipe $@ %<
: extract files and exit if asked to do so
case "$extractsh" in
true)
?X: Undo the forced silent=true when -S was supplied, by probing realsilent
```

```
?X: which was set iff -s was also given. See Options.U for details.
 case "$realsilent" in
 true) ;;
 *) exec 1>&4;;
 esac
 case "$config_sh" in
 ") config_sh='config.sh';;
 esac
 echo " "
 echo "Fetching answers from $config_sh..."
 cd ..
 . $config_sh
?X: extract has to be run from the top directory, not within UU.
 . UU/optdef.sh
 echo " "
?X: extract has to be run from the top directory, not within UU.
 . UU/extract
 rm -rf UU
 echo "Extraction done."
 exit 0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Extractall.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Oldconfig.U,v 3.0.1.10 1997/02/28 15:06:39 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Oldconfig.U,v $
?RCS: Revision 3.0.1.10  1997/02/28  15:06:39  ram
?RCS: patch61: added support for src.U
?RCS: patch61: new OSNAME define
?RCS: patch61: can now sense new OSes
?RCS:
?RCS: Revision 3.0.1.9  1995/07/25  13:40:51  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.8  1995/05/12  12:04:18  ram
```

```
?RCS: patch54: config.sh reload logic now knows about new -K switch
?RCS: patch54: cleaned up and extended osvers for DEC
 OSF/1 (ADO)
?RCS: patch54: added MachTen detection (ADO)
?RCS:
?RCS: Revision 3.0.1.7  1995/02/15  14:13:41  ram
?RCS: patch51: adapted osvers computation for AIX (ADO)
?RCS:
?RCS: Revision 3.0.1.6  1995/01/30  14:27:15  ram
?RCS: patch49: unit Options.U now exports file optdef.sh, not a variable
?RCS: patch49: update code for myuname changed (WED)
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:15:36  ram
?RCS: patch45: added quotes around the INITPROG variable (ADO)
?RCS: patch45: allows variable overriding after config file loading
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  15:57:05  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: merged with the version used for perl5's Configure (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/05/06  14:24:17  ram
?RCS: patch23: added support for osf1 hints
?RCS: patch23: new support for solaris and i386 systems (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:05:02  ram
?RCS: patch16: added post-processing on myuname for Xenix targets
?RCS:
 patch16: message proposing config.sh defaults made consistent
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  15:56:32  ram
?RCS: patch10: force use of config.sh when -d option is used (WAD)
?RCS: patch10: complain about non-existent hint files (WAD)
?RCS: patch10: added Options dependency for fastread variable
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:12  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit tries to remember what we did last time we ran Configure, mostly
?X: for the sake of setting defaults.
?X:
?MAKE:Oldconfig hint myuname osname osvers: Instruct Myread uname \
 Checkcc Mksymlinks run \
 sh awk sed test cat rm lns tr n c contains Loc Options Tr src trnl ln
?MAKE: -pick wipe $@ %<
?S:myuname:
?S: The output of 'uname -a' if available, otherwise the hostname.
?S: The whole thing is then lower-cased and slashes and single quotes are
```

```
?S: removed.
?S:.
?S:hint:
?S: Gives the type of hints used for previous answers. May be one of
?S: "default",
 "recommended" or "previous".
?S:.
?S:osname:
?S: This variable contains the operating system name (e.g. sunos,
?S: solaris, hpux, etc.).  It can be useful later on for setting
?S: defaults.  Any spaces are replaced with underscores.  It is set
?S: to a null string if we can't figure it out.
?S:.
?S:osvers:
?S: This variable contains the operating system version (e.g.
?S: 4.1.3, 5.2, etc.).  It is primarily used for helping select
?S: an appropriate hints file, but might be useful elsewhere for
?S: setting defaults.  It is set to '' if we can't figure it out.
?S: We try to be flexible about how much of the version number
?S: to keep, e.g. if 4.1.1, 4.1.2, and 4.1.3 are essentially the
?S: same for this package, hints files might just be os_4.0 or
?S: os_4.1, etc., not keeping separate files for each little release.
?S:.
?C:OSNAME:
?C: This symbol contains the name of the operating system, as determined
?C: by Configure.  You shouldn't rely on it too much; the specific
?C: feature tests
 from Configure are generally more reliable.
?C:.
?C:OSVERS:
?C: This symbol contains the version of the operating system, as determined
?C: by Configure.  You shouldn't rely on it too much; the specific
?C: feature tests from Configure are generally more reliable.
?C:.
?H:#define OSNAME "$osname"  /**/
?H:#define OSVERS "$osvers"  /**/
?H:.
?F:!config.sh
?T:tmp tmp_n tmp_c tmp_sh file
?T:xxxxfile xxxfile xxfile xfile hintfile newmyuname
?T:tans _ isesix INITPROG DJGPP
?D:osname=''
?LINT:change n c sh
?LINT:extern targetarch
?LINT:extern hostarch
?LINT:change hostarch
?LINT:extern is_os2
: Try to determine whether config.sh was made on this system
```

```
case "$config_sh" in
")
?X: indentation wrong on purpose--RAM
?X: Leave a white space between first two '(' for ksh. The sub-shell is needed
?X: on some machines to avoid the error message when uname is not found; e.g.
?X: old SUN-OS 3.2 would not execute hostname in (uname -a || hostname). Sigh!
?X: Now not using a subshell but instead $test.
myuname=`$uname
 -a 2>/dev/null`
$test -z "$myuname" && myuname=`hostname 2>/dev/null`
# Downcase everything to avoid ambiguity.
# Remove slashes and single quotes so we can use parts of this in
# directory and file names.
# Remove newlines so myuname is sane to use elsewhere.
# tr '[A-Z]' '[a-z]' would not work in EBCDIC
# because the A-Z/a-z are not consecutive.
myuname=`echo $myuname | $sed -e "s,['/],,g" | \
 ./tr '[A-Z]' '[a-z]' | $tr $trnl ' '`
?X: Save the value we just computed to reset myuname after we get done here.
newmyuname="$myuname"
dflt=n
case "$knowitall" in
")
 if test -f ../config.sh; then
  if $contains myuname= ../config.sh >/dev/null 2>&1; then
   eval "`grep myuname= ../config.sh`"
  fi
  if test "X$myuname" = "X$newmyuname"; then
   dflt=y
  fi
 fi
 ;;
*) dflt=y;;
esac

@if {test -d ../hints}
: Get old answers from old config file if Configure was run on the
: same system, otherwise use the hints.
hint=default
cd ..
?X: Since we are now at the root of the source
 tree, we must use $src
?X: to access the sources and not $rsrc. See src.U for details...
if test -f config.sh; then
 echo " "
 rp="I see a config.sh file.  Shall I use it to set the defaults?"
 . UU/myread
 case "$ans" in
```

```
 n*|N*) echo "OK, I'll ignore it."
  mv config.sh config.sh.old
  myuname="$newmyuname"
  ;;
 *)  echo "Fetching default answers from your old config.sh file..." >&4
  tmp_n="$n"
  tmp_c="$c"
  tmp_sh="$sh"
  . ./config.sh
  cp config.sh UU
  n="$tmp_n"
  c="$tmp_c"
  : Older versions did not always set $sh.  Catch re-use of such
  : an old config.sh.
  case "$sh" in
  ") sh="$tmp_sh" ;;
  esac
  hint=previous
  ;;
 esac
fi
. ./UU/checkcc
if test ! -f config.sh; then
 $cat <<EOM

First time through, eh?  I have some defaults handy for some systems
that need some extra help getting the Configure answers right:

EOM
 (cd $src/hints; ls -C *.sh) | $sed 's/\.sh/   /g' >&4
 dflt="
 : Half the following guesses are probably wrong... If you have better
 : tests or hints,
 please send them to <MAINTLOC>
 : The metaconfig authors would also appreciate a copy...
 $test -f /irix && osname=irix
 $test -f /xenix && osname=sco_xenix
 $test -f /dynix && osname=dynix
 $test -f /dnix && osname=dnix
 $test -f /lynx.os && osname=lynxos
 $test -f /unicos && osname=unicos && osvers=`$uname -r`
 $test -f /unicosmk && osname=unicosmk && osvers=`$uname -r`
 $test -f /unicosmk.ar && osname=unicosmk && osvers=`$uname -r`
 $test -f /bin/mips && /bin/mips && osname=mips
 $test -d /usr/apollo/bin && osname=apollo
 $test -f /etc/saf/_sactab && osname=svr4
 $test -d /usr/include/minix && osname=minix && osvers=`$uname -r`
 $test -f /system/gnu_library/bin/ar.pm && osname=vos
```

```
 $test -f /sys/utilities/MultiView && osname=amigaos
 if $test -d /MachTen -o -d /MachTen_Folder; then
?X:  MachTen uname -a output looks like
?X:  xxx 4 0.0 Macintosh
?X:  MachTen /sbin/version output looks like
?X:  MachTen 4.0 Mon Aug 28 10:18:00 1995
?X:  MachTen 3.x had the 'version' command in /usr/etc/version.
  osname=machten
  if
 $test -x /sbin/version; then
   osvers=`/sbin/version | $awk '{print $2}' |
   $sed -e 's/[A-Za-z]$//'`
  elif $test -x /usr/etc/version; then
   osvers=`/usr/etc/version | $awk '{print $2}' |
   $sed -e 's/[A-Za-z]$//'`
  else
   osvers="$2.$3"
  fi
 fi

 $test -f /sys/posix.dll &&
  $test -f /usr/bin/what &&
  set X `/usr/bin/what /sys/posix.dll` &&
  $test "$3" = UWIN &&
  osname=uwin &&
  osvers="$5"

?X: If we have uname, we already computed a suitable uname -a output,
?X: and it lies in $myuname.
 if $test -f $uname; then
  set X $myuname
  shift

  case "$5" in
  fps*) osname=fps ;;
  mips*)
   case "$4" in
   umips) osname=umips ;;
   *) osname=mips ;;
   esac;;
  [23]100) osname=mips ;;
?X: Interactive Unix.
  i386*)
   tmp=`/bin/uname -X 2>/dev/null|awk '/3\.2v[45]/{ print $(NF) }'`
   if $test "$tmp" != "" -a "$3" = "3.2" -a -f '/etc/systemid'; then
    osname='sco'
    osvers=$tmp
   elif $test -f /etc/kconfig; then
```

```
    osname=isc
    if
 test "$lns" = "$ln -s"; then
     osvers=4
    elif $contains _SYSV3 /usr/include/stdio.h > /dev/null 2>&1 ; then
     osvers=3
    elif $contains _POSIX_SOURCE /usr/include/stdio.h > /dev/null 2>&1 ; then
     osvers=2
    fi
   fi
   tmp=''
   ;;
?X: MS-DOS djgpp uname -a output looks like:
?X: ms-dos xxx 6 22 pc
?X:  $1 is the "dos flavor" (need not be "ms-dos").
?X:  $2 is the node name
?X:  $3 and $4 are version/subversion
?X:  $5 is always "pc", but that might not be unique to DJGPP.
?X: (e.g. Solaris_x86 has $5 = i86pc, which doesn't actually conflict,
?X: but it's close enough that I can easily imagine other vendors also
?X: using variants of pc* in $5.)
?X:  The "DJGPP" environment variable is always set when djgpp is active.
  pc*)
   if test -n "$DJGPP"; then
    osname=dos
    osvers=djgpp
   fi
   ;;
  esac

  case "$1" in
  aix) osname=aix
?X: aix 4.1 uname -a output looks like
?X:  AIX  foo  1 4 000123456789
?X: where $4 is the major release number and $3 is the (minor)
 version.
?X: More detail on the version is available with the oslevel command.
?X: in 3.2.x, it output a string (see case statements below).  In 4.1,
?X: it puts out something like  4.1.1.0
   tmp=`( (oslevel) 2>/dev/null || echo "not found") 2>&1`
   case "$tmp" in
   # oslevel can fail with:
   # oslevel: Unable to acquire lock.
   *not\ found) osvers="$4"."$3" ;;
   '<3240'|'<>3240') osvers=3.2.0 ;;
   '=3240'|'>3240'|'<3250'|'<>3250') osvers=3.2.4 ;;
   '=3250'|'>3250') osvers=3.2.5 ;;
   *) osvers=$tmp;;
```

```
  esac
  ;;
 bitrig) osname=bitrig
  osvers="$3"
  ;;
 bsd386) osname=bsd386
  osvers=`$uname -r`
  ;;
 cygwin*) osname=cygwin
  osvers="$3"
  ;;
 *dc.osx) osname=dcosx
  osvers="$3"
  ;;
 dnix) osname=dnix
  osvers="$3"
  ;;
 domainos) osname=apollo
  osvers="$3"
  ;;
 dgux) osname=dgux
  osvers="$3"
  ;;
 dragonfly) osname=dragonfly
  osvers="$3"
  ;;
?X:  uname -a returns
?X:  DYNIX/ptx xxx 4.0 V4.1.2 i386
 dynixptx*) osname=dynixptx
  osvers=`echo
 "$4"|sed 's/^v//'`
  ;;
 freebsd) osname=freebsd
  osvers="$3" ;;
 genix) osname=genix ;;
?X: GNU/Hurd uname -a gives something like:
?X: GNU foo 0.3 GNU-Mach 1.4/Hurd-0.3 i386-AT386 GNU
?X: GNU gnu 0.3 GNUmach-1.2/Hurd-0.3 i386-AT386 GNU
?X: Note the hostname on the second one, which will fool Configure
?X: into using the SysV case!
 gnu) osname=gnu
  osvers="$3" ;;
?X: HP-UX uname -a gives something like
?X: HP-UX foobar B.10.20 A 9000/735 2016483812 two-user license
?X: Preserve the full 10.20 string instead of the previous plain '10'.
?X:  Thanks to Graham Barr.    --AD 6/30/1998
 hp*) osname=hpux
  osvers=`echo "$3" | $sed 's,.*\.\([0-9]*\.[0-9]*\),\1,'`
```

```
 ;;
irix*) osname=irix
 case "$3" in
 4*) osvers=4 ;;
 5*) osvers=5 ;;
 *) osvers="$3" ;;
 esac
 ;;
linux) osname=linux
 case "$3" in
 *) osvers="$3" ;;
 esac
 $test -f /system/lib/libandroid.so && osname=linux-android
 ;;
MiNT) osname=mint
 ;;
minix) osname=minix
 osvers=`$uname -r`
 ;;
netbsd*)
osname=netbsd
 osvers="$3"
 ;;
news-os) osvers="$3"
 case "$3" in
 4*) osname=newsos4 ;;
 *) osname=newsos ;;
 esac
 ;;
nonstop-ux) osname=nonstopux ;;
openbsd) osname=openbsd
 osvers="$3"
 ;;
os2) osname=os2
 osvers="$4"
 ;;
POSIX-BC | posix-bc ) osname=posix-bc
 osvers="$3"
 ;;
powerux | power_ux | powermax_os | powermaxos | \
powerunix | power_unix) osname=powerux
 osvers="$3"
 ;;
qnx) osname=qnx
 osvers="$4"
 ;;
solaris) osname=solaris
 case "$3" in
```

```
  5*) osvers=`echo $3 | $sed 's/^5/2/g'` ;;
  *) osvers="$3" ;;
  esac
  ;;
 sunos) osname=sunos
  case "$3" in
  5*) osname=solaris
   osvers=`echo $3 | $sed 's/^5/2/g'` ;;
  *) osvers="$3" ;;
  esac
  ;;
 titanos) osname=titanos
  case "$3" in
  1*) osvers=1 ;;
  2*) osvers=2 ;;
  3*) osvers=3 ;;
  4*) osvers=4 ;;
  *) osvers="$3" ;;
  esac
  ;;
 ultrix) osname=ultrix
  osvers="$3"
  ;;
 osf1|mls+) case "$5" in
   alpha)
?X: DEC OSF/1 myuname
 -a output looks like:  osf1 xxxx t3.2 123.4 alpha
?X: where the version number can be something like [xvt]n.n
    osname=dec_osf
?X: sizer knows the minor minor version: the letter
    osvers=`sizer -v | awk -FUNIX '{print $2}' | awk '{print $1}' |  tr '[A-Z]' '[a-z]' | sed 's/^[xvt]//'`
    case "$osvers" in
    [1-9].[0-9]*) ;;
    *) osvers=`echo "$3" | sed 's/^[xvt]//'` ;;
    esac
    ;;
  hp*) osname=hp_osf1 ;;
  mips) osname=mips_osf1 ;;
?X: hp and mips were unsupported Technology Releases -- ADO, 24/10/94
  esac
  ;;
 # UnixWare 7.1.2 is known as Open UNIX 8
 openunix|unixware) osname=svr5
  osvers="$4"
  ;;
 uts) osname=uts
  osvers="$3"
  ;;
```

```
 vos) osvers="$3"
  ;;
 $2) case "$osname" in
  *isc*) ;;
  *freebsd*) ;;
  svr*)
   : svr4.x or possibly later
   case "svr$3" in
   ${osname}*)
    osname=svr$3
    osvers=$4
    ;;
   esac
   case "$osname" in
   svr4.0)
    : Check for ESIX
    if test -f /stand/boot ; then
     eval `grep '^INITPROG=[a-z/0-9]*$'
/stand/boot`
     if test -n "$INITPROG" -a -f "$INITPROG"; then
  isesix=`strings -a $INITPROG|grep 'ESIX SYSTEM V/386 Release 4.0'`
      if test -n "$isesix"; then
       osname=esix4
      fi
     fi
    fi
    ;;
   esac
   ;;
  *) if test -f /etc/systemid; then
    osname=sco
    set `echo $3 | $sed 's/\./ /g'` $4
    if $test -f $src/hints/sco_$1_$2_$3.sh; then
     osvers=$1.$2.$3
    elif $test -f $src/hints/sco_$1_$2.sh; then
     osvers=$1.$2
    elif $test -f $src/hints/sco_$1.sh; then
     osvers=$1
    fi
   else
    case "$osname" in
    ") : Still unknown.  Probably a generic Sys V.
     osname="sysv"
     osvers="$3"
     ;;
    esac
   fi
   ;;
```

```
  esac
  ;;
 *) case "$osname" in
  ") : Still unknown.  Probably a generic BSD.
   osname="$1"
   osvers="$3"
   ;;
  esac
  ;;
 esac
else
?X: Try to identify sony's NEWS-OS (BSD unix)
 if test -f /vmunix -a -f $src/hints/news_os.sh; then
  (what /vmunix | UU/tr '[A-Z]'
'[a-z]') > UU/kernel.what 2>&1
  if $contains news-os UU/kernel.what >/dev/null 2>&1; then
   osname=news_os
  fi
  $rm -f UU/kernel.what
?X: Maybe it's OS/2 or DOS or something similar
 elif test -d c:/. -o -n "$is_os2" ; then
  set X $myuname
  osname=os2
  osvers="$5"
 fi
fi

    case "$targetarch" in
    ") ;;
    *)  hostarch=$osname
        case "$targetarch" in
            nto*|*-nto-*)
                # Will load qnx.sh, which should change osname to nto
                osname=qnx
                osvers="
                ;;
            *linux-android*)
                # Catch arm-linux-androideabi, mipsel-linux-android,
                # and i686-linux-android
                osname=linux-android
                osvers="
                ;;
            *linux*)
                # Something like arm-linux-gnueabihf is really just
                # plain linux.
                osname=linux
```

```
            osvers=''
            ;;
          *solaris*|*sunos*)
            osname=solaris
            # XXX perhaps we should just assume
            # osvers to be 2, or maybe take the value
            # from targetarch. Using $run before the
            # hints are run is somewhat icky.
            set X `$run $uname -a 2>/dev/null`
            shift
            case "$3" in
              5*) osvers=`echo $3 | $sed 's/^5/2/g'` ;;
              *)  osvers="$3" ;;
            esac
            ;;
          *)
    osname=`echo $targetarch|sed 's,^[^-]*-,,'`
    osvers=''
          ;;
        esac
        ;;
     esac

: Now look for a hint file osname_osvers, unless one has been
: specified already.
case "$hintfile" in
''|' ')
 file=`echo "${osname}_${osvers}" | $sed -e 's%\.%_%g' -e 's%_$%%'`
 : Also try without trailing minor version
numbers.
 xfile=`echo $file | $sed -e 's%_[^_]*$%%'`
 xxfile=`echo $xfile | $sed -e 's%_[^_]*$%%'`
 xxxfile=`echo $xxfile | $sed -e 's%_[^_]*$%%'`
 xxxxfile=`echo $xxxfile | $sed -e 's%_[^_]*$%%'`
 case "$file" in
 '') dflt=none ;;
 *)  case "$osvers" in
  '') dflt=$file
   ;;
  *)  if $test -f $src/hints/$file.sh ; then
    dflt=$file
   elif $test -f $src/hints/$xfile.sh ; then
    dflt=$xfile
   elif $test -f $src/hints/$xxfile.sh ; then
    dflt=$xxfile
   elif $test -f $src/hints/$xxxfile.sh ; then
    dflt=$xxxfile
   elif $test -f $src/hints/$xxxxfile.sh ; then
```

```
    dflt=$xxxxfile
   elif $test -f "$src/hints/${osname}.sh" ; then
    dflt="${osname}"
   else
    dflt=none
   fi
   ;;
  esac
  ;;
 esac
 if $test -f Policy.sh ; then
  case "$dflt" in
  *Policy*) ;;
  none) dflt="Policy" ;;
  *) dflt="Policy $dflt" ;;
  esac
 fi
 ;;
*)
 dflt=`echo $hintfile | $sed 's/\.sh$//'`
 ;;
esac

if $test -f Policy.sh ; then
 $cat <<EOM

There's also
 a Policy hint file available, which should make the
site-specific (policy) questions easier to answer.
EOM

 fi

 $cat <<EOM

You may give one or more space-separated answers, or "none" if appropriate.
If you have a handcrafted Policy.sh file or a Policy.sh file generated by a
previous run of Configure, you may specify it as well as or instead of
OS-specific hints.  If hints are provided for your OS, you should use them:
although Perl can probably be built without hints on many platforms, using
hints often improve performance and may enable features that Configure can't
set up on its own. If there are no hints that match your OS, specify "none";
DO NOT give a wrong version or a wrong OS.

EOM

 rp="Which of these apply, if any?"
 . UU/myread
```

```
 tans=$ans
 for file in $tans; do
  if $test X$file = XPolicy -a -f Policy.sh; then
   . Policy.sh
   $cat Policy.sh >> UU/config.sh
  elif $test -f $src/hints/$file.sh; then
   . $src/hints/$file.sh
   $cat $src/hints/$file.sh >> UU/config.sh
  elif
$test X"$tans" = X -o X"$tans" = Xnone ; then
   : nothing
  else
   : Give one chance to correct a possible typo.
   echo "$file.sh does not exist"
   dflt=$file
   rp="hint to use instead?"
   . UU/myread
   for file in $ans; do
    if $test -f "$src/hints/$file.sh"; then
     . $src/hints/$file.sh
     $cat $src/hints/$file.sh >> UU/config.sh
    elif $test X$ans = X -o X$ans = Xnone ; then
     : nothing
    else
     echo "$file.sh does not exist -- ignored."
    fi
   done
  fi
 done

 hint=recommended
 : Remember our hint file for later.
 if $test -f "$src/hints/$file.sh" ; then
  hintfile="$file"
 else
  hintfile=''
 fi
fi
cd UU
?X: From here on, we must use $rsrc instead of $src
@else
: Get old answers, if there is a config file out there
hint=default
hintfile=''
if test -f ../config.sh; then
 echo " "
 rp="I see a config.sh file.  Shall I use it to set the defaults?"
 . ./myread
```

```
 case "$ans" in
 n*|N*) echo "OK, I'll ignore it.";;
 *)  echo "Fetching default answers from
 your old config.sh file..." >&4
  tmp_n="$n"
  tmp_c="$c"
  . ../config.sh
  cp ../config.sh .
  n="$tmp_n"
  c="$tmp_c"
  hint=previous
  ;;
 esac
fi
@end
?X: remember, indentation is wrong--RAM
;;
*)
 echo " "
 echo "Fetching default answers from $config_sh..." >&4
 tmp_n="$n"
 tmp_c="$c"
 cd ..
?X: preserve symbolic links, if any
 cp $config_sh config.sh 2>/dev/null
 chmod +w config.sh
 . ./config.sh
 cd UU
 cp ../config.sh .
 n="$tmp_n"
 c="$tmp_c"
 hint=previous
 ;;
esac
. ./optdef.sh

: Restore computed paths
for file in $loclist $trylist; do
 eval $file="\$_$file"
done

@if osname || osvers
cat << EOM

Configure uses the operating system name and version to set some defaults.
The default value is probably right if the name rings a bell. Otherwise,
since spelling matters for me, either accept the default or answer "none"
to leave it blank.
```

```
EOM
@end
@if osname
case "$osname" in
 "|' ')
  case "$hintfile" in
  "|' '|none) dflt=none ;;
  *)  dflt=`echo $hintfile | $sed -e 's/\.sh$//'
 -e 's/_.*$//'` ;;
  esac
  ;;
 *) dflt="$osname" ;;
esac
rp="Operating system name?"
. ./myread
case "$ans" in
none)  osname=" ;;
*) osname=`echo "$ans" | $sed -e 's/[  ][ ]*/_/g' | ./tr '[A-Z]' '[a-z]'`;;
esac
@end
@if osvers
@if osname
echo " "
@end
case "$osvers" in
 "|' ')
  case "$hintfile" in
  "|' '|none) dflt=none ;;
  *) dflt=`echo $hintfile | $sed -e 's/\.sh$//' -e 's/^[^_]*//'`
   dflt=`echo $dflt | $sed -e 's/^_//' -e 's/_/./g'`
   case "$dflt" in
   "|' ') dflt=none ;;
   esac
   ;;
  esac
  ;;
 *) dflt="$osvers" ;;
esac
rp="Operating system version?"
. ./myread
case "$ans" in
none)  osvers=" ;;
*) osvers="$ans" ;;
esac

@end
```

. ./posthint.sh

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Oldconfig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cppstdin.U,v $
?RCS: Revision 3.0.1.4  1994/10/29  16:08:34  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.3  1994/01/24  14:05:38  ram
?RCS: patch16: comment for CPPLAST was missing
?RCS:
?RCS: Revision 3.0.1.2  1993/12/15  08:18:58  ram
?RCS: patch15: new variables cpprun and cpplast, guaranteed wrapper-free
?RCS: patch15: cppstdin now tries to use cc, even at the cost of a wrapper
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:00:53  ram
?RCS: patch6:
 remove wrapper when not actually used
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:38  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:cppstdin cppminus cpprun cpplast: contains test Myread Oldconfig Loc \
 cpp +cc rm hint osname gccversion startsh eunicefix
?MAKE: -pick add $@ %<
?S:cppstdin:
?S: This variable contains the command which will invoke the C
?S: preprocessor on standard input and put the output to stdout.
?S: It is primarily used by other Configure units that ask about
?S: preprocessor symbols.
?S:.
?S:cppminus:
?S: This variable contains the second part of the string which will invoke
?S: the C preprocessor on the standard input and produce to standard
?S: output.  This variable will have the value "-" if cppstdin needs
```

```
?S: a minus to specify standard input, otherwise the value is "".
?S:.
?S:cpprun:
?S: This variable contains the command which will invoke a C preprocessor
?S: on standard input and put the output to stdout. It is guaranteed not
?S: to be a wrapper
 and may be a null string if no preprocessor can be
?S: made directly available. This preprocessor might be different from the
?S: one used by the C compiler. Don't forget to append cpplast after the
?S: preprocessor options.
?S:.
?S:cpplast:
?S: This variable has the same functionality as cppminus, only it applies to
?S: cpprun and not cppstdin.
?S:.
?C:CPPSTDIN:
?C: This symbol contains the first part of the string which will invoke
?C: the C preprocessor on the standard input and produce to standard
?C: output.  Typical value of "cc -E" or "/lib/cpp", but it can also
?C: call a wrapper. See CPPRUN.
?C:.
?C:CPPMINUS:
?C: This symbol contains the second part of the string which will invoke
?C: the C preprocessor on the standard input and produce to standard
?C: output.  This symbol will have the value "-" if CPPSTDIN needs a minus
?C: to specify standard input, otherwise the value is "".
?C:.
?C:CPPRUN:
?C: This symbol contains the string which will invoke a C preprocessor on
?C: the
 standard input and produce to standard output. It needs to end
?C: with CPPLAST, after all other preprocessor flags have been specified.
?C: The main difference with CPPSTDIN is that this program will never be a
?C: pointer to a shell wrapper, i.e. it will be empty if no preprocessor is
?C: available directly to the user. Note that it may well be different from
?C: the preprocessor used to compile the C program.
?C:.
?C:CPPLAST:
?C: This symbol is intended to be used along with CPPRUN in the same manner
?C: symbol CPPMINUS is used with CPPSTDIN. It contains either "-" or "".
?C:.
?H:#define CPPSTDIN "$cppstdin"
?H:#define CPPMINUS "$cppminus"
?H:#define CPPRUN "$cpprun"
?H:#define CPPLAST "$cpplast"
?H:.
?F:cppstdin !testcpp.out !testcpp.c
?T:wrapper x_cpp x_minus ok
```

```
: see how we invoke the C preprocessor
echo " "
echo "Now, how can we feed standard input to your C preprocessor..." >&4
cat <<'EOT' >testcpp.c
#define ABC abc
#define XYZ xyz
ABC.XYZ
EOT
cd ..
if $test ! -f cppstdin;
 then
 echo "$startsh" >cppstdin
if $test "X$osname" = "Xaix" -a "X$gccversion" = X; then
?X: AIX cc -E doesn't show the absolute headerfile
?X: locations but we'll cheat by using the -M flag.
 echo 'cat >.$$.c; rm -f .$$.u; "$cc" ${1+"$@"} -M -c .$$.c 2>/dev/null; \
 test -s .$$.u && \
 awk """"$2 ~ /\.h$/ { print "# 0 \""$2"\"" }"""" .$$.u; \
 rm -f .$$.o .$$.u; "$cc" -E ${1+"$@"} .$$.c; rm .$$.c' >> cppstdin
else
 echo 'cat >.$$.c; "$cc" -E ${1+"$@"} .$$.c; rm .$$.c' >>cppstdin
fi; else
 echo "Keeping your $hint cppstdin wrapper."
fi
chmod 755 cppstdin
$eunicefix cppstdin
wrapper=`pwd`/cppstdin
ok='false'
cd UU

?X:
?X: We'll run the cpp tests again if we don't have any valid C preprocessor
?X: yet or don't know how to proceed without a wrapper (in which case cpprun
?X: is empty and that's really annoying...)
?X:
if $test "X$cppstdin" != "X" && \
 $cppstdin $cppminus <testcpp.c >testcpp.out 2>&1 && \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1
then
 echo "You used to use
 $cppstdin $cppminus so we'll use that again."
 case "$cpprun" in
 ") echo "But let's see if we can live without a wrapper..." ;;
 *)
  if $cpprun $cpplast <testcpp.c >testcpp.out 2>&1 && \
   $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1
  then
   echo "(And we'll use $cpprun $cpplast to preprocess directly.)"
```

```
   ok='true'
  else
   echo "(However, $cpprun $cpplast does not work, let's see...)"
  fi
  ;;
 esac
else
 case "$cppstdin" in
 '') ;;
 *)
  echo "Good old $cppstdin $cppminus does not seem to be of any help..."
  ;;
 esac
fi

if $ok; then
 : nothing
elif echo 'Maybe """$cc"' -E" will work...'; \
 $cc -E <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Yup, it does."
 x_cpp="$cc -E"
 x_minus='';
elif echo 'Nope...maybe """$cc"' -E -" will work...'; \
 $cc -E - <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Yup, it does."
 x_cpp="$cc -E"
 x_minus='-';
elif echo 'Nope...maybe """$cc"'
 -P" will work...'; \
 $cc -P <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Yipee, that works!"
 x_cpp="$cc -P"
 x_minus='';
elif echo 'Nope...maybe """$cc"' -P -" will work...'; \
 $cc -P - <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "At long last!"
 x_cpp="$cc -P"
 x_minus='-';
elif echo 'No such luck, maybe "$cpp" will work...'; \
 $cpp <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "It works!"
 x_cpp="$cpp"
 x_minus='';
```

```
elif echo 'Nixed again...maybe "'$cpp' -" will work...'; \
 $cpp - <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 echo "Hooray, it works!  I was beginning to wonder."
 x_cpp="$cpp"
 x_minus='-';
elif echo 'Uh-uh.  Time to get fancy.  Trying a wrapper...'; \
 $wrapper <testcpp.c >testcpp.out 2>&1; \
 $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
 x_cpp="$wrapper"
 x_minus=''
 echo
 "Eureka!"
else
 dflt=''
 rp="No dice.  I can't find a C preprocessor.  Name one:"
 . ./myread
 x_cpp="$ans"
 x_minus=''
 $x_cpp <testcpp.c >testcpp.out 2>&1
 if $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1 ; then
  echo "OK, that will do." >&4
 else
echo "Sorry, I can't get that to work.  Go find one and rerun Configure." >&4
  exit 1
 fi
fi

case "$ok" in
false)
 cppstdin="$x_cpp"
 cppminus="$x_minus"
 cpprun="$x_cpp"
 cpplast="$x_minus"
?X:
?X: If /lib/cpp is used, try using a wrapper to increase our chances to have
?X: the C compiler and our $cppstdin agree on the same symbols... However,
?X: since cpprun is guaranteed not to be a wrapper, we must clear it if the
?X: only preprocessor we found was a wrapper, with all our luck...
?X:
 set X $x_cpp
 shift
 case "$1" in
 "$cpp")
  echo "Perhaps can we force $cc -E using a wrapper..."
  if $wrapper <testcpp.c >testcpp.out 2>&1; \
   $contains 'abc.*xyz' testcpp.out >/dev/null 2>&1
  then
```

```
  echo "Yup, we can."
  cppstdin="$wrapper"
  cppminus=";
 else
  echo
"Nope, we'll have to live without it..."
 fi
 ;;
esac
case "$cpprun" in
"$wrapper")
 cpprun="
 cpplast="
 ;;
esac
;;
esac

case "$cppstdin" in
"$wrapper"|'cppstdin') ;;
*) $rm -f $wrapper;;
esac
$rm -f testcpp.c testcpp.out
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/cppstdin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: usethreads.U,v $
?RCS:
?RCS: Copyright (c) 1998-2000 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: usethreads.U,v $
?RCS:
?MAKE:usethreads useithreads d_oldpthreads usereentrant: \
 Myread Oldconfig Setvar test cat
?MAKE: -pick add $@ %<
?Y:TOP
?S:usethreads:
?S: This variable conditionally defines the USE_THREADS symbol,
?S: and indicates that Perl should be built to use threads.
?S:.
?S:useithreads:
?S: This variable conditionally defines the USE_ITHREADS symbol,
```

```
?S: and indicates that Perl should be built to use the interpreter-based
?S: threading implementation.
?S:.
?X: I'm putting old_pthreads in this unit because it might eventually
?X: be part of an automatic determination to see if we can use threads
?X: at all.
?S:d_oldpthreads:
?S: This variable conditionally
 defines the OLD_PTHREADS_API symbol,
?S: and indicates that Perl should be built to use the old
?S: draft POSIX threads API.  This is only potentially meaningful if
?S: usethreads is set.
?S:.
?S:usereentrant:
?S: This variable conditionally defines the USE_REENTRANT_API symbol,
?S: which indicates that the thread code may try to use the various
?S: _r versions of library functions.  This is only potentially
?S: meaningful if usethreads is set and is very experimental, it is
?S: not even prompted for.
?S:.
?C:USE_ITHREADS:
?C: This symbol, if defined, indicates that Perl should be built to
?C: use the interpreter-based threading implementation.
?C:.
?C:USE_THREADS:
?C: This symbol, if defined, indicates that Perl should
?C: be built to use threads.  At present, it is a synonym for
?C: and USE_ITHREADS, but eventually the source ought to be
?C: changed to use this to mean _any_ threading implementation.
?C:.
?C:OLD_PTHREADS_API:
?C: This symbol, if defined, indicates that Perl should
?C: be
 built to use the old draft POSIX threads API.
?C:.
?C:USE_REENTRANT_API:
?C: This symbol, if defined, indicates that Perl should
?C: try to use the various _r versions of library functions.
?C: This is extremely experimental.
?C:.
?H:#$useithreads USE_ITHREADS  /**/
?H:#$usethreads  USE_THREADS  /**/
?H:#$d_oldpthreads OLD_PTHREADS_API  /**/
?H:#$usereentrant USE_REENTRANT_API /**/
?H:.
?LINT:set usethreads d_oldpthreads
?INIT:: set usethreads on the Configure command line to enable threads.
?INIT:usereentrant='undef'
```

```
?F:!usethreads.cbu
: Do we want threads support and if so, what type
?X: We should really have some explanatory text here, and some
?X: automatic setting of sensible defaults.
case "$usethreads" in
$define|true|[yY]*)     dflt='y';;
*)     # Catch case where user specified ithreads but
      # forgot -Dusethreads (A.D. 4/2002)
      case "$useithreads" in
      *$define*) dflt='y';;
      *)  dflt='n';;
      esac
      ;;
esac
cat <<EOM

Perl can be built to
 offer a form of threading support on some systems
To do so, Configure can be run with -Dusethreads.

Note that Perl built with threading support runs slightly slower
and uses slightly more memory than plain Perl.

If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp='Build a threading Perl?'
. ./myread
case "$ans" in
y|Y)    val="$define" ;;
*)      val="$undef" ;;
esac
set usethreads
eval $setvar

useithreads="$usethreads"

?X: Check out what kind of threads API we have
case "$d_oldpthreads" in
") : Configure tests would be welcome here.  For now, assume undef.
 val="$undef" ;;
*) val="$d_oldpthreads" ;;
esac
set d_oldpthreads
eval $setvar

?X: In general, -lpthread needs to come before -lc but after other
?X: libraries such as -lgdbm and such like. We assume here that -lc
?X: is present in libswanted. If that fails to be true, then this
```

```
?X: can be changed to add pthread to the very end of libswanted.

: Look for a hint-file generated 'call-back-unit'.  If the
:
 user has specified that a threading perl is to be built,
: we may need to set or change some other defaults.
if $test -f usethreads.cbu; then
   echo "Your platform has some specific hints regarding threaded builds, using them..."
   . ./usethreads.cbu
else
   case "$usethreads" in
 "$define"|true|[yY]*)
  $cat <<EOM
(Your platform does not have any specific hints for threaded builds.
Assuming POSIX threads, then.)
EOM
 ;;
   esac
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/usethreads.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_bcopy.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_bcopy.U,v $
?RCS: Revision 3.0.1.2  1993/10/16  13:48:04  ram
?RCS: patch12: added magic support for bcopy()
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:01:11  ram
?RCS: patch10: now only defines HAS_BCOPY, no macro remap on memcpy (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_bcopy: Inlibc
?MAKE: -pick add $@ %<
?S:d_bcopy:
```

```
?S: This variable conditionally defines the HAS_BCOPY
 symbol if
?S: the bcopy() routine is available to copy strings.
?S:.
?C:HAS_BCOPY:
?C: This symbol is defined if the bcopy() routine is available to
?C: copy blocks of memory.
?C:.
?H:#$d_bcopy HAS_BCOPY /**/
?H:.
?M:bcopy: HAS_BCOPY
?M:#ifndef HAS_BCOPY
?M:#ifndef bcopy
?M:#define bcopy(s,d,l) memcpy((d),(s),(l))
?M:#endif
?M:#endif
?M:.
?LINT:set d_bcopy
: see if bcopy exists
set bcopy d_bcopy
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_bcopy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2014-2014, Karl Williamson & H.Merijn Brand
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_wcscmp: Compile cat rm_try run Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_wcscmp:
?S: This variable conditionally defines the HAS_WCSCMP symbol if the
?S: wcscmp() routine is available and can be used to compare wide
?S: character strings.
?S:.
?C:HAS_WCSCMP:
?C: This symbol, if defined, indicates that the wcscmp routine is
?C: available to compare two wide character strings.
?C:.
?H:#$d_wcscmp HAS_WCSCMP /**/
?H:.
```

```
?F:!try
?LINT: set d_wcscmp
: look for wcscmp
echo " "
$cat >try.c <<'EOCP'
#include <stdio.h>
#include
 <wchar.h>
int main ()
{
   wchar_t *s = L" ";
   return (wcscmp (s, s) ? 1 : 0);
   }
EOCP
set try
?X: if $cc $ccflags $ldflags -o try try.c $libs >/dev/null 2>&1 ; then
val="$undef"
if eval $compile; then
   `$run ./try`
   case "$?" in
 0)  echo "A working wcscmp() found." >&4
     val="$define" ;;
 *)  echo "wcscmp() found, but it doesn't work" >&4
     ;;
 esac
else
   echo "wcscmp() NOT found." >&4
   fi
set d_wcscmp
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_wcscmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_strcspn.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strcspn.U,v $
```

```
?RCS: Revision 3.0  1993/08/18  12:07:33  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strcspn: Inlibc
?MAKE: -pick add $@ %<
?S:d_strcspn:
?S: This variable conditionally defines the HAS_STRCSPN symbol, which
?S: indicates to the C program that the strcspn() routine is available
?S: to scan strings.
?S:.
?C:HAS_STRCSPN (STRCSPN):
?C: This symbol, if defined, indicates that the strcspn routine is
?C: available to scan
 strings.
?C:.
?H:#$d_strcspn HAS_STRCSPN  /**/
?H:.
?LINT:set d_strcspn
: see if strcspn exists
set strcspn d_strcspn
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strcspn.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysndir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysndir.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:33  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_sysndir: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysndir:
?S: This variable conditionally defines the I_SYS_NDIR symbol, and indicates
?S: whether a C program should include <sys/ndir.h>.
?S:.
?C:I_SYS_NDIR (I_SYSNDIR):
```

```
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/ndir.h>.
?C:.
?H:#$i_sysndir
 I_SYS_NDIR /**/
?H:.
?LINT:set i_sysndir
: see if this is an sysndir system
set sys/ndir.h i_sysndir
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sysndir.U
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```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sig_name.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  16:21:25  ram
?RCS: patch61: brand new algorithm for sig_name and (new!) sig_num
?RCS:
?RCS: Revision 3.0.1.4  1995/07/25  14:14:54  ram
?RCS: patch56: added <asm/signal.h> lookup for linux
?RCS:
?RCS: Revision 3.0.1.3  1995/05/12  12:24:11  ram
?RCS: patch54: now looks for <linux/signal.h> too (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20  07:06:57  ram
?RCS: patch30: final echo was missing to close awk-printed string
?RCS:
?RCS: Revision 3.0.1.1
  1994/05/06  15:17:55  ram
?RCS: patch23: signal list now formatted to avoid scroll-ups (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:sig_name sig_name_init sig_num sig_num_init sig_count sig_size: \
 awk Signal Oldconfig rm
```

```
?MAKE: -pick add $@ %<
?S:sig_name:
?S: This variable holds the signal names, space separated. The leading
?S: SIG in signal name is removed.  A ZERO is prepended to the
?S: list.  This is currently not used.
?S:.
?S:sig_name_init:
?S: This variable holds the signal names, enclosed in double quotes and
?S: separated by commas, suitable for use in the SIG_NAME definition
?S: below.  A "ZERO" is prepended to the list, and the list is
?S: terminated with a plain 0.  The leading SIG in signal names
?S: is removed. See sig_num.
?S:.
?S:sig_num:
?S: This variable holds the signal numbers, space separated. A ZERO is
?S: prepended to the list (corresponding to the fake SIGZERO), and
?S: the list is terminated
 with a 0.  Those numbers correspond to
?S: the value of the signal listed in the same place within the
?S: sig_name list.
?S:.
?S:sig_num_init:
?S: This variable holds the signal numbers, enclosed in double quotes and
?S: separated by commas, suitable for use in the SIG_NUM definition
?S: below.  A "ZERO" is prepended to the list, and the list is
?S: terminated with a plain 0.
?S:.
?S:sig_count (sig_name.U):
?S:  This variable holds a number larger than the largest valid
?S:  signal number.  This is usually the same as the NSIG macro.
?S:.
?S:sig_size:
?S:  This variable contains the number of elements of the sig_name
?S:  and sig_num arrays, excluding the final NULL entry.
?S:.
?C:SIG_NAME:
?C: This symbol contains a list of signal names in order of
?C: signal number. This is intended
?C: to be used as a static array initialization, like this:
?C:  char *sig_name[] = { SIG_NAME };
?C: The signals in the list are separated with commas, and each signal
?C: is surrounded by double
 quotes. There is no leading SIG in the signal
?C: name, i.e. SIGQUIT is known as "QUIT".
?C: Gaps in the signal numbers (up to NSIG) are filled in with NUMnn,
?C: etc., where nn is the actual signal number (e.g. NUM37).
?C: The signal number for sig_name[i] is stored in sig_num[i].
?C: The last element is 0 to terminate the list with a NULL.  This
```

```
?C: corresponds to the 0 at the end of the sig_num list.
?C:.
?C:SIG_NUM:
?C: This symbol contains a list of signal numbers, in the same order as the
?C: SIG_NAME list. It is suitable for static array initialization, as in:
?C:  int sig_num[] = { SIG_NUM };
?C: The signals in the list are separated with commas, and the indices
?C: within that list and the SIG_NAME list match, so it's easy to compute
?C: the signal name from a number or vice versa at the price of a small
?C: dynamic linear lookup.
?C: Duplicates are allowed, but are moved to the end of the list.
?C: The signal number corresponding to sig_name[i] is sig_number[i].
?C: if (i
 < NSIG) then sig_number[i] == i.
?C: The last element is 0, corresponding to the 0 at the end of
?C: the sig_name list.
?C:.
?C:SIG_COUNT:
?C: This variable contains a number larger than the largest
?C: signal number.  This is usually the same as the NSIG macro.
?C:.
?C:SIG_SIZE:
?C: This variable contains the number of elements of the sig_name
?C: and sig_num arrays, excluding the final NULL entry.
?C:.
?H:#define SIG_NAME $sig_name_init  /**/
?H:#define SIG_NUM  $sig_num_init  /**/
?H:#define SIG_COUNT $sig_count   /**/
?H:#define SIG_SIZE $sig_size   /**/
?H:.
?T:i doinit
?F:!= !signal_cmd
?X: signal.cmd creates a file  signal.lst which has two columns:
?X: NAME  number, e.g.
?X:  HUP 1
?X: The list is sorted on signal number, with duplicates moved to
?X: the end..
: generate list of signal names
echo " "
case "$sig_name_init" in
") doinit=yes ;;
*)  case "$sig_num_init" in
   "|*,*) doinit=yes ;;
   esac ;;
esac
case "$doinit" in
yes)
 echo "Generating a list of signal names and
```

```
 numbers..." >&4
 . ./signal_cmd
 sig_count=`$awk '/^NSIG/ { printf "%d", $2 }' signal.lst`
 sig_name=`$awk 'BEGIN { printf "ZERO " }
   !/^NSIG/ { printf "%s ", $1 }' signal.lst`
 sig_num=`$awk  'BEGIN { printf "0 " }
   !/^NSIG/ { printf "%d ", $2 }' signal.lst`
 sig_name_init=`$awk 'BEGIN { printf "\"ZERO\", " }
        !/^NSIG/ { printf "\"%s\", ", $1 }
        END { printf "0\n" }' signal.lst`
 sig_num_init=`$awk  'BEGIN { printf "0, " }
        !/^NSIG/ { printf "%d, ", $2}
        END { printf "0\n"}' signal.lst`
 ;;
esac
echo "The following $sig_count signals are available:"
echo " "
echo $sig_name | $awk \
'BEGIN { linelen = 0 }
{
 for (i = 1; i <= NF; i++) {
  name = "SIG" $i " "
  linelen = linelen + length(name)
  if (linelen > 70) {
   printf "\n"
   linelen = length(name)
  }
  printf "%s", name
 }
 printf "\n"
}'
sig_size=`echo $sig_name | awk '{print NF}'`
$rm -f signal signal.c signal.awk signal.lst signal_cmd
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/sig_name.U
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```
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?RCS:
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?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: i_ndbm.U,v $
?RCS: Revision 3.0.1.1  1995/05/12  12:16:53  ram
?RCS: patch54: made more robust by checking both header and lib (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:23  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_ndbm: Inhdr Inlibc Setvar
?MAKE: -pick add $@ %<
?S:i_ndbm (d_ndbm):
?S: This variable conditionally defines the I_NDBM symbol, which
?S: indicates to the C program that <ndbm.h> exists and should
?S: be included.
?S:.
?C:I_NDBM (HAS_NDBM NDBM):
?C: This
 symbol, if defined, indicates that <ndbm.h> exists and should
?C: be included.
?C:.
?H:#$i_ndbm I_NDBM /**/
?H:.
?T:t_ndbm d_dbm_open
?LINT:set i_ndbm
: see if ndbm.h is available
?X: t_ndbm is a tentative check.  We might just have the .h, not the lib -- ADO
set ndbm.h t_ndbm
eval $inhdr
case "$t_ndbm" in
$define)
 : see if dbm_open exists
 set dbm_open d_dbm_open
 eval $inlibc
 case "$d_dbm_open" in
 $undef)
  t_ndbm="$undef"
  echo "We won't be including <ndbm.h>"
  ;;
 esac
 ;;
esac
val="$t_ndbm"
set i_ndbm
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_ndbm.U

No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isnormal: cat Compile Setvar rm_try
?MAKE: -pick add $@ %<
?S:d_isnormal:
?S: This variable conditionally defines the HAS_ISNORMAL symbol, which
?S: indicates to the C program that the isnormal() routine is available.
?S:.
?C:HAS_ISNORMAL:
?C: This symbol, if defined, indicates that the isnormal routine is
?C: available to check whether a double is normal (non-zero normalized).
?C:.
?H:#$d_isnormal HAS_ISNORMAL  /**/
?H:.
?LINT:set d_isnormal
: check for isnormal
echo "Checking to see if you have isnormal..." >&4
$cat >try.c <<EOCP
#include <math.h>
int main() { return isnormal(0.0); }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have isnormal."
else
 val="$undef"
 echo "You do not have isnormal."
fi
$rm_try
set d_isnormal
eval $setvar
```

Found
 in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_isnormal.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libnm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libnm.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:08:26  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libnm: test Loc libpth _a
?MAKE: -pick add $@ %<
?S:libnm:
?S: This variable contains the argument to pass to the loader in order
?S: to get the new math library routines.  If there is no new math
?S: library, it is null.
?S:.
?T:ans
?O:
 use libswanted='-lnm' instead (see libs.U).
: see if we should include -lnm
echo " "
if $test -r /usr/lib/libnm$_a || $test -r /usr/local/lib/libnm$_a ; then
 echo "New math library found." >&4
 libnm='-lnm'
else
 ans=`./loc libnm$_a x $libpth`
 case "$ans" in
 x)
  echo "No nm library found--the normal math library will have to do." >&4
  libnm=''
  ;;
 *)
  echo "New math library found in $ans." >&4
  libnm="$ans"
  ;;
 esac
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/libnm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: package.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:27:21  ram
?RCS: patch36: beware of non-ascii character sets when translating case
?RCS:
?RCS: Revision 3.0.1.2  1993/11/10  17:37:02  ram
?RCS: patch14: skip definition of spackage if not otherwise used
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:11:10  ram
?RCS: patch10: added spackage, suitable for starting sentences
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:28  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:package spackage:
 Nothing
?MAKE: -pick wipe $@ %<
?S:package:
?S: This variable contains the name of the package being constructed.
?S: It is primarily intended for the use of later Configure units.
?S:.
?S:spackage:
?S: This variable contains the name of the package being constructed,
?S: with the first letter uppercased, i.e. suitable for starting
?S: sentences.
?S:.
?C:PACKAGE:
?C: This variable contains the name of the package being built.
?C:.
?H:#define PACKAGE "$package"
?H:.
?T:first last
: set package name
package='<PACKAGENAME>'
@if spackage
first=`echo $package | sed -e 's/^\(.\).*/\1/'`
last=`echo $package | sed -e 's/^.\(.*\)/\1/'`
?X:
?X: So early in the Configure script, we don't have ./tr set up and can't
?X: include Tr in our dependency or that would create a cycle. Therefore,
?X: we have to somehow duplicate the work done in Tr. That's life.
?X:
```

```
case "`echo AbyZ | tr '[:lower:]' '[:upper:]' 2>/dev/null`" in
ABYZ) spackage=`echo $first | tr '[:lower:]' '[:upper:]'`$last;;
*) spackage=`echo
 $first | tr '[a-z]' '[A-Z]'`$last;;
esac
@end
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/package.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fmax: Inlibc
?MAKE: -pick add $@ %<
?S:d_fmax:
?S: This variable conditionally defines the HAS_FMAX symbol, which
?S: indicates to the C program that the fmax() routine is available.
?S:.
?C:HAS_FMAX:
?C: This symbol, if defined, indicates that the fmax routine is
?C: available to do the maximum function.
?C:.
?H:#$d_fmax HAS_FMAX  /**/
?H:.
?LINT:set d_fmax
: see if fmax exists
set fmax d_fmax
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fmax.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_flexfnam.U,v $
```

```
?RCS: Revision 3.0  1993/08/18  12:06:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_flexfnam: cat rm test Setvar
?MAKE: -pick add $@ %<
?S:d_flexfnam:
?S: This variable conditionally defines the FLEXFILENAMES symbol, which
?S: indicates that the system supports filenames longer than 14 characters.
?S:.
?C:FLEXFILENAMES:
?C: This symbol, if defined, indicates that the system supports filenames
?C: longer than 14 characters.
?C:.
?H:#$d_flexfnam FLEXFILENAMES  /**/
?H:.
?T:first
 second
?LINT:set d_flexfnam
: see if we can have long filenames
echo " "
?X:
?X: We have to test in both /tmp and . because of NFS (remote server may allow
?X: long filenames while the local filesystem cannot support them). If at least
?X: one of those file systems cannot support long filenames, then we assume the
?X: whole system can't.
?X:
rmlist="$rmlist /tmp/cf$$"
$test -d /tmp/cf$$ || mkdir /tmp/cf$$
first=123456789abcdef
second=/tmp/cf$$/$first
$rm -f $first $second
if (echo hi >$first) 2>/dev/null; then
 if $test -f 123456789abcde; then
  echo 'You cannot have filenames longer than 14 characters.  Sigh.' >&4
  val="$undef"
 else
  if (echo hi >$second) 2>/dev/null; then
   if $test -f /tmp/cf$$/123456789abcde; then
    $cat <<'EOM'
That's peculiar... You can have filenames longer than 14 characters, but only
on some of the filesystems.  Maybe you are using NFS.  Anyway, to avoid problems
I shall consider your system cannot support long filenames at all.
EOM
    val="$undef"
   else
    echo
 'You can have filenames longer than 14 characters.' >&4
    val="$define"
```

```
   fi
  else
   $cat <<'EOM'
How confusing! Some of your filesystems are sane enough to allow filenames
longer than 14 characters but some others like /tmp can't even think about them.
So, for now on, I shall assume your kernel does not allow them at all.
EOM
   val="$undef"
  fi
 fi
else
 $cat <<'EOM'
You can't have filenames longer than 14 chars.  You can't even think about them!
EOM
 val="$undef"
fi
set d_flexfnam
eval $setvar
$rm -rf /tmp/cf$$ 123456789abcde*
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_flexfnam.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getnbyad.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getnbyname: Inlibc
?MAKE: -pick add $@ %<
?S:d_getnbyname:
?S: This variable conditionally defines the HAS_GETNETBYNAME symbol, which
?S: indicates to the C program that the getnetbyname() routine is available
?S: to look up networks by their names.
?S:.
?C:HAS_GETNETBYNAME:
?C: This symbol, if defined, indicates that the getnetbyname() routine is
?C: available to look up networks by their names.
?C:.
?H:#$d_getnbyname HAS_GETNETBYNAME  /**/
?H:.
?LINT:set d_getnbyname
: see if getnetbyname exists
set getnetbyname d_getnbyname
```

```
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_getnbynm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2019 Karl Williamson
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_towupper: Inlibc
?MAKE: -pick add $@ %<
?S:d_towupper:
?S: This variable conditionally defines the HAS_TOWUPPER symbol, which
?S: indicates to the C program that the towupper() routine is available.
?S:.
?C:HAS_TOWUPPER:
?C: This symbol, if defined, indicates that the towupper () routine is
?C: available to do case conversion.
?C:.
?H:#$d_towupper HAS_TOWUPPER  /**/
?H:.
?LINT:set d_towupper
: see if towupper exists
set towupper d_towupper
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_towupper.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysstatfs.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysstatfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysstatfs:
?S: This variable conditionally defines the I_SYSSTATFS symbol,
?S: and indicates whether a C program should include <sys/statfs.h>.
```

```
?S:.
?C:I_SYS_STATFS:
?C: This symbol, if defined, indicates that <sys/statfs.h> exists.
?C:.
?H:#$i_sysstatfs I_SYS_STATFS  /**/
?H:.
?LINT:set i_sysstatfs
: see if this is a sys/statfs.h system
set sys/statfs.h i_sysstatfs
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysstatfs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtod_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtod_l:
?S: This variable conditionally defines the HAS_STRTOD_L symbol, which
?S: indicates to the C program that the strtod_l() routine is available.
?S:.
?C:HAS_STRTOD_L:
?C: This symbol, if defined, indicates that the strtod_l routine is
?C: available to convert strings to long doubles.
?C:.
?H:#$d_strtod_l HAS_STRTOD_L  /**/
?H:.
?LINT:set d_strtod_l
: see if strtod_l exists
set strtod_l d_strtod_l
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_strtod_l.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysun.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysun.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit looks wether <sys/un.h> is available or not
?X:
?MAKE:i_sysun: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysun:
?S: This variable conditionally defines I_SYS_UN, which indicates
?S: to the C program that it should include <sys/un.h> to get UNIX
?S: domain socket definitions.
?S:.
?C:I_SYS_UN:
?C: This symbol, if defined, indicates
 to the C program that it should
?C: include <sys/un.h> to get UNIX domain socket definitions.
?C:.
?H:#$i_sysun I_SYS_UN  /**/
?H:.
?LINT:set i_sysun
: see if this is a sys/un.h system
set sys/un.h i_sysun
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sysun.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Getfile.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: Getfile.U,v $
?RCS: Revision 3.0.1.7  1997/02/28  15:01:06  ram
?RCS: patch61: getfile script now begins with "startsh"
?RCS:
?RCS: Revision 3.0.1.6  1995/02/15  14:11:00  ram
?RCS: patch51: was not working if ~'s allowed with d_portable on (WED)
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:11:25  ram
?RCS: patch45: added support for escaping answers to skip various checks
?RCS: patch45: modified message issued after file expansion
?RCS:
?RCS: Revision
 3.0.1.4  1994/10/29  15:53:19  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.3  1994/05/06  14:23:36  ram
?RCS: patch23: getfile could be confused by file name in "locate" requests
?RCS: patch23: new 'p' directive to assume file is in people's path (WED)
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:01:31  ram
?RCS: patch16: added metalint hint on changed 'ans' variable
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  15:46:27  ram
?RCS: patch10: minor format problems and misspellings fixed
?RCS: patch10: now performs from package dir and not from UU subdir
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to get a file name and make some sanity checks. Optionally, a ~name
?X: expansion is performed.
?X:
?X: To use this unit, $rp and $dflt must hold the question and the
?X: default answer, which will be passed as-is
 to the myread script.
?X: The $fn variable must hold the file type (f or d, for file/directory).
?X: If $gfpth is set to a list of space-separated list of directories,
?X: those are prefixes for the filename.  Unless $gfpthkeep is set to 'y',
?X: gfpth is cleared on return from Getfile.
?X:
?X: If it is followed by a ~, then ~name substitution will occur. Upon return,
?X: $ans is set with the filename value. If a / is specified, then only a full
?X: path name is accepted (but ~ substitution occurs before, if needed). The
?X: expanded path name is returned in that case.
?X:
?X: If a + is specified, the existence checks are skipped. This usually means
```

```
?X: the file/directory is under the full control of the program.
?X:
?X: If the 'n' (none) type is used, then the user may answer none.
?X: The 'e' (expand) switch may be used to bypass d_portable, expanding ~name.
?X:
?X: If the 'l' (locate) type is used, then it must end with a ':' and then a
?X: file name. If the answer is a directory,
 the file name will be appended
?X: before testing for file existence. This is useful in locate-style
?X: questions like "where is the active file?". In that case, one should
?X: use:
?X:
?X:   dflt='~news/lib'
?X:   fn='l~:active'
?X:   rp='Where is the active file?'
?X:   . ./getfile
?X:   active="$ans"
?X:
?X: If the 'p' (path) letter is specified along with 'l', then an answer
?X: without a leading / will be expected to be found in everyone's path.
?X:
?X: It is also possible to include a comma-separated list of items within
?X: parentheses to specify which items should be accepted as-is with no
?X: further checks. This is useful when for instance a full path is expected
?X: but the user may escape out via "magical" answers.
?X:
?X: If the answer to the question is 'none', then the existence checks are
?X: skipped and the empty string is returned.
?X:
?MAKE:Getfile: d_portable contains startsh Myread Filexp tr trnl
?MAKE: -pick add $@ %<
?V:ansexp:fn gfpth gfpthkeep
?F:./getfile
?T:tilde
 type what orig_rp orig_dflt fullpath already redo skip none_ok \
 value exp_file nopath_ok loc_file fp pf dir direxp
?LINT:change ans
?LINT:change gfpth
: now set up to get a file name
cat <<EOS >getfile
$startsh
EOS
cat <<'EOSC' >>getfile
tilde=''
fullpath=''
already=''
skip=''
none_ok=''
```

```
exp_file="
nopath_ok="
orig_rp="$rp"
orig_dflt="$dflt"
case "$gfpth" in
") gfpth='.' ;;
esac

?X: Begin by stripping out any (...) grouping.
case "$fn" in
*\(*)
 : getfile will accept an answer from the comma-separated list
 : enclosed in parentheses even if it does not meet other criteria.
 expr "$fn" : '.*(\(.*\)).*' | $tr ',' $trnl >getfile.ok
 fn=`echo $fn | sed 's/(.*)//'`
 ;;
esac

?X: Catch up 'locate' requests early, so that we may strip the file name
?X: before looking at the one-letter commands, in case the file name contains
?X: one of them. Reported by Wayne Davison <davison@borland.com>.
case "$fn" in
*:*)
 loc_file=`expr $fn : '.*:\(.*\)'`
 fn=`expr $fn : '\(.*\):.*'`
 ;;
esac

case
 "$fn" in
*~*) tilde=true;;
esac
case "$fn" in
*/*) fullpath=true;;
esac
case "$fn" in
*+*) skip=true;;
esac
case "$fn" in
*n*) none_ok=true;;
esac
case "$fn" in
*e*) exp_file=true;;
esac
case "$fn" in
*p*) nopath_ok=true;;
esac
```

```
case "$fn" in
*f*) type='File';;
*d*) type='Directory';;
*l*) type='Locate';;
esac

what="$type"
case "$what" in
Locate) what='File';;
esac

case "$exp_file" in
")
 case "$d_portable" in
 "$define") ;;
 *) exp_file=true;;
 esac
 ;;
esac

cd ..
while test "$type"; do
 redo=''
 rp="$orig_rp"
 dflt="$orig_dflt"
 case "$tilde" in
 true) rp="$rp (~name ok)";;
 esac
 . UU/myread
?X: check for allowed escape sequence which may be accepted verbatim.
 if test -f UU/getfile.ok && \
  $contains "^$ans\$" UU/getfile.ok >/dev/null 2>&1
 then
  value="$ans"
  ansexp="$ans"
  break
 fi
 case "$ans" in
 none)
  value=''
  ansexp=''
  case "$none_ok" in
  true) type='';;
  esac
  ;;
 *)
  case "$tilde" in
  '') value="$ans"
```

```
  ansexp="$ans";;
 *)
  value=`UU/filexp $ans`
  case
$? in
  0)
   if test "$ans" != "$value"; then
    echo "(That expands to $value on this system.)"
   fi
   ;;
  *) value="$ans";;
  esac
  ansexp="$value"
  case "$exp_file" in
  ") value="$ans";;
  esac
  ;;
 esac
 case "$fullpath" in
 true)
?X: Perform all the checks on ansexp and not value since when d_portable
?X: is defined, the original un-expanded answer which is stored in value
?X: would lead to "non-existent" error messages whilst ansexp has been
?X: properly expanded. -- Fixed by Jan.Djarv@sa.erisoft.se (Jan Djarv)
?X: Always expand ~user if '/' was requested
  case "$ansexp" in
  /*) value="$ansexp" ;;
?X: Allow for c:/some/path
  [a-zA-Z]:/*) value="$ansexp" ;;
  *)
   redo=true
   case "$already" in
   true)
   echo "I shall only accept a full path name, as in /bin/ls." >&4
   echo "Use a ! shell escape if you wish to check pathnames." >&4
    ;;
   *)
   echo "Please give a full path name, starting with slash." >&4
    case "$tilde"
in
    true)
   echo "Note that using ~name is ok provided it expands well." >&4
     already=true
     ;;
    esac
   esac
   ;;
  esac
```

```
 ;;
esac
case "$redo" in
")
 case "$type" in
 File)
  for fp in $gfpth; do
   if test "X$fp" = X.; then
       pf="$ansexp"
   else
       pf="$fp/$ansexp"
   fi
   if test -f "$pf"; then
    type="
   elif test -r "$pf" || (test -h "$pf") >/dev/null 2>&1
   then
    echo "($value is not a plain file, but that's ok.)"
    type="
   fi
   if test X"$type" = X; then
       value="$pf"
       break
   fi
  done
  ;;
 Directory)
  for fp in $gfpth; do
   if test "X$fp" = X.; then
       dir="$ans"
       direxp="$ansexp"
   else
       dir="$fp/$ansexp"
       direxp="$fp/$ansexp"
   fi
   if test -d "$direxp"; then
    type="
    value="$dir"
    break
   fi
  done
  ;;
 Locate)
  if test -d "$ansexp"; then
   echo "(Looking for $loc_file in directory
$value.)"
   value="$value/$loc_file"
   ansexp="$ansexp/$loc_file"
  fi
```

```
    if test -f "$ansexp"; then
     type="
    fi
    case "$nopath_ok" in
    true) case "$value" in
     */*) ;;
     *) echo "Assuming $value will be in people's path."
      type="
      ;;
     esac
     ;;
    esac
    ;;
   esac

   case "$skip" in
   true) type=";
   esac

   case "$type" in
   ") ;;
   *)
    if test "$fastread" = yes; then
     dflt=y
    else
     dflt=n
    fi
    rp="$what $value doesn't exist.  Use that name anyway?"
    . UU/myread
    dflt="
    case "$ans" in
    y*) type=";;
    *) echo " ";;
    esac
    ;;
   esac
   ;;
  esac
  ;;
 esac
done
cd UU
ans="$value"
rp="$orig_rp"
dflt="$orig_dflt"
rm -f getfile.ok
test "X$gfpthkeep" != Xy && gfpth=""
EOSC
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Getfile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_perlio.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_perlio.U,v $
?RCS:
?MAKE:useperlio: Myread Oldconfig Setvar
?MAKE: -pick add $@ %<
?Y:TOP
?S:useperlio:
?S: This variable conditionally defines the USE_PERLIO symbol,
?S: and indicates that the PerlIO abstraction should be
?S: used throughout.
?S:.
?C:USE_PERLIO:
?C: This symbol, if defined, indicates that the PerlIO abstraction should
?C: be used throughout.  If not defined, stdio should be
?C: used in a fully backward compatible manner.
?C:.
?H:?%<:#ifndef USE_PERLIO
?H:?%<:#$useperlio USE_PERLIO  /**/
?H:?%<:#endif
?H:.
: Check if we want perlio
useperlio="$define"
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/useperlio.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_netinettcp: Inhdr
?MAKE: -pick add $@ %<
?S:i_netinettcp:
?S: This variable conditionally defines the I_NETINET_TCP symbol,
?S: and indicates whether a C program should include <netinet/tcp.h>.
?S:.
?C:I_NETINET_TCP:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <netinet/tcp.h>.
?C:.
?H:#$i_netinettcp   I_NETINET_TCP               /**/
?H:.
?LINT:set i_netinettcp
: see if netinet/tcp.h is available
set netinet/tcp.h i_netinettcp
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_netinettcp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: uidtype.U,v $
?RCS: Revision 3.0.1.3  1994/08/29  16:33:25  ram
?RCS: patch32: now uses new Typedef unit to compute type information
?RCS:
?RCS: Revision 3.0.1.2  1994/06/20  07:09:36  ram
?RCS: patch30: comment for uidtype referred to the obsoleted symbol
?RCS:
?RCS: Revision 3.0.1.1  1994/05/13  15:28:27  ram
?RCS: patch27: made conform to its gidtype.U companion
?RCS: patch27: question now explicitly mentions getuid()
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:56  ram
?RCS: Baseline for dist
```

```
 3.0 netwide release.
?RCS:
?MAKE:uidtype: Myread Typedef Findhdr
?MAKE: -pick add $@ %<
?S:uidtype:
?S: This variable defines Uid_t to be something like uid_t, int,
?S: ushort, or whatever type is used to declare user ids in the kernel.
?S:.
?C:Uid_t (UIDTYPE):
?C: This symbol holds the type used to declare user ids in the kernel.
?C: It can be int, ushort, uid_t, etc... It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Uid_t $uidtype  /* UID type */
?H:.
?T:xxx
: see what type uids are declared as in the kernel
set uid_t uidtype xxx stdio.h sys/types.h
eval $typedef
case "$uidtype" in
xxx)
 xxx=`./findhdr sys/user.h`
 set `grep '_ruid;' "$xxx" 2>/dev/null` unsigned short
 case $1 in
 unsigned) dflt="$1 $2" ;;
 *) dflt="$1" ;;
 esac
 ;;
*) dflt="$uidtype";;
esac
echo " "
rp="What is the type for user ids returned by getuid()?"
. ./myread
uidtype="$ans"
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/uidtype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_pwritev.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_pwritev.U,v $
?RCS:
?MAKE:d_pwritev: Inlibc
?MAKE: -pick add $@ %<
?S:d_pwritev:
?S: This variable conditionally defines the HAS_PWRITEV symbol, which
?S: indicates to the C program that the pwritev() routine is available.
?S:.
?C:HAS_PWRITEV :
?C: This symbol, if defined, indicates that the pwritev routine is
?C: available to perform vectored writes on a file descriptor at a
?C: given offset.
?C:.
?H:#$d_pwritev HAS_PWRITEV  /**/
?H:.
?LINT:set
 d_pwritev
: see if pwritev exists
set pwritev d_pwritev
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_pwritev.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_vprintf.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:59  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_vprintf d_charvspr: Guess cat +cc +ccflags Csym Setvar
?MAKE: -pick add $@ %<
?S:d_vprintf:
?S: This variable conditionally defines the HAS_VPRINTF symbol, which
?S: indicates to the C program that the vprintf() routine is available
?S: to printf with a pointer to an argument list.
```

```
?S:.
?S:d_charvspr:
?S: This variable conditionally defines CHARVSPRINTF if this system
?S: has
 vsprintf returning type (char*).  The trend seems to be to
?S: declare it as "int vsprintf()".
?S:.
?C:HAS_VPRINTF (VPRINTF):
?C: This symbol, if defined, indicates that the vprintf routine is available
?C: to printf with a pointer to an argument list.  If unavailable, you
?C: may need to write your own, probably in terms of _doprnt().
?C:.
?C:USE_CHAR_VSPRINTF (CHARVSPRINTF):
?C: This symbol is defined if this system has vsprintf() returning type
?C: (char*).  The trend seems to be to declare it as "int vsprintf()".  It
?C: is up to the package author to declare vsprintf correctly based on the
?C: symbol.
?C:.
?H:#$d_vprintf HAS_VPRINTF /**/
?H:#$d_charvspr USE_CHAR_VSPRINTF  /**/
?H:.
?F:!vprintf !vprintf.c
?T:val2
?LINT:set d_vprintf d_charvspr
: see if vprintf exists
echo " "
if set vprintf val -f d_vprintf; eval $csym; $val; then
 echo 'vprintf() found.' >&4
 val="$define"
 $cat >vprintf.c <<'EOF'
#include <varargs.h>

int main() { xxx("foo"); }

xxx(va_alist)
va_dcl
{
 va_list args;
 char
 buf[10];

 va_start(args);
 exit((unsigned long)vsprintf(buf,"%s",args) > 10L);
}
EOF
 if $cc $ccflags -o vprintf vprintf.c >/dev/null 2>&1 && ./vprintf; then
  echo "Your vsprintf() returns (int)." >&4
  val2="$undef"
```

```
 else
  echo "Your vsprintf() returns (char*)." >&4
  val2="$define"
 fi
else
 echo 'vprintf() NOT found.' >&4
  val="$undef"
  val2="$undef"
fi
set d_vprintf
eval $setvar
val=$val2
set d_charvspr
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_vprintf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: cpp_stuff.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cpp_stuff.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:08:24  ram
?RCS: patch36: now uses cppstdin instead of plain cpp for consistency (ADO)
?RCS: patch36: remove temporary files when done
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:36  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:cpp_stuff: cat contains cppstdin cppflags cppminus rm
?MAKE: -pick add $@ %<
?S:cpp_stuff:
?S: This variable contains an identification of the concatenation
 mechanism
?S: used by the C preprocessor.
?S:.
?C:CAT2:
?C: This macro concatenates 2 tokens together.
?C:.
```

```
?C:CAT3:
?C: This macro concatenates 3 tokens together.
?C:.
?C:CAT4:
?C: This macro concatenates 4 tokens together.
?C:.
?C:CAT5:
?C: This macro concatenates 5 tokens together.
?C:.
?C:STRINGIFY:
?C: This macro surrounds its token with double quotes.
?C:.
?C:SCAT2:
?C: This macro concatenates 2 tokens together and stringifies the result.
?C: It might not exist, so #ifdef it in your code!
?C:.
?C:SCAT3:
?C: This macro concatenates 3 tokens together and stringifies the result.
?C: It might not exist, so #ifdef it in your code!
?C:.
?C:SCAT4:
?C: This macro concatenates 4 tokens together and stringifies the result.
?C: It might not exist, so #ifdef it in your code!
?C:.
?C:SCAT5:
?C: This macro concatenates 5 tokens together and stringifies the result.
?C: It might not exist, so #ifdef it in your code!
?C:.
?X: Dist pl70 included the following, but AIX's xlc compiler
?X: (which
 is ANSI-ish and has cpp_stuff == 42)) rejects
?X: The SQuoTe/EQuoTe stuff because the string literals are on
?X: separate lines.  Sigh.
?X:  Andy Dougherty   24 Feb 1998
?X: ?H:?%<:#if $cpp_stuff == 1
?X: ?H:?CAT2:#define CAT2(a,b)a/**/b
?X: ?H:?CAT3:#define CAT3(a,b,c)a/**/b/**/c
?X: ?H:?CAT4:#define CAT4(a,b,c,d)a/**/b/**/c/**/d
?X: ?H:?CAT5:#define CAT5(a,b,c,d,e)a/**/b/**/c/**/d/**/e
?X: ?H:?STRINGIFY:#define STRINGIFY(a)"a"
?X: ?H:?%<:#define SQuoTe(a)"a
?X: ?H:?%<:#define EQuoTe(a)a"
?X: ?H:?SCAT2:#define SCAT2(a,b)EQuoTe(SQuoTe(a)b)
?X: ?H:?SCAT3:#define SCAT3(a,b,c)EQuoTe(SQuoTe(a)b/**/c)
?X: ?H:?SCAT4:#define SCAT4(a,b,c,d)EQuoTe(SQuoTe(a)b/**/c/**/d)
?X: ?H:?SCAT5:#define SCAT5(a,b,c,d,e)EQuoTe(SQuoTe(a)b/**/c/**/d/**/e)
?X: ?H:?%<:#endif
?H:?%<:#if $cpp_stuff == 1
```

```
?H:?CAT2:#define CAT2(a,b) a/**/b
?H:?CAT3:#define CAT3(a,b,c) a/**/b/**/c
?H:?CAT4:#define CAT4(a,b,c,d) a/**/b/**/c/**/d
?H:?CAT5:#define CAT5(a,b,c,d,e) a/**/b/**/c/**/d/**/e
?H:?STRINGIFY:#define STRINGIFY(a) "a"
?X: If
 you can get stringification with catify, tell me how!
?H:?%<:#endif
?H:?%<:#if $cpp_stuff == 42
?H:?%<:#define PeRl_CaTiFy(a, b) a ## b
?H:?%<:#define PeRl_StGiFy(a) #a
?X: The additional level of indirection enables these macros to be
?X: used as arguments to other macros.  See K&R 2nd ed., page 231.
?H:?CAT2:#define CAT2(a,b) PeRl_CaTiFy(a,b)
?H:?CAT3:#define CAT3(a,b,c) CAT2(PeRl_CaTiFy(a,b),c)
?H:?CAT4:#define CAT4(a,b,c,d) CAT2(CAT3(a,b,c),d)
?H:?CAT5:#define CAT5(a,b,c,d,e) CAT2(CAT4(a,b,c,d),e)
?H:?%<:#define StGiFy(a) PeRl_StGiFy(a)
?H:?STRINGIFY:#define STRINGIFY(a) PeRl_StGiFy(a)
?H:?SCAT2:#define SCAT2(a,b) PeRl_StGiFy(a) PeRl_StGiFy(b)
?H:?SCAT3:#define SCAT3(a,b,c) PeRl_StGiFy(a) PeRl_StGiFy(b) PeRl_StGiFy(c)
?H:?SCAT4:#define SCAT4(a,b,c,d) PeRl_StGiFy(a) PeRl_StGiFy(b) PeRl_StGiFy(c) PeRl_StGiFy(d)
?H:?SCAT5:#define SCAT5(a,b,c,d,e) PeRl_StGiFy(a) PeRl_StGiFy(b) PeRl_StGiFy(c) PeRl_StGiFy(d)
PeRl_StGiFy(e)
?H:?%<:#endif
?H:?%<:#if $cpp_stuff != 1 && $cpp_stuff
 != 42
?H:?%<:#include "Bletch: How does this C preprocessor concatenate tokens?"
?H:?%<:#endif
?H:.
?W:%<:CAT2 CAT3 CAT4 CAT5 STRINGIFY SCAT2 SCAT3 SCAT4 SCAT5
?F:!cpp_stuff.c
?LINT:known StGiFy
?LINT:known PeRl_CaTiFy
?LINT:known PeRl_StGiFy
: how do we concatenate cpp tokens here?
echo " "
echo "Checking to see how your cpp does stuff like concatenate tokens..." >&4
$cat >cpp_stuff.c <<'EOCP'
#define RCAT(a,b)a/**/b
#define ACAT(a,b)a ## b
RCAT(Rei,ser)
ACAT(Cir,cus)
EOCP
$cppstdin $cppflags $cppminus <cpp_stuff.c >cpp_stuff.out 2>&1
if $contains 'Circus' cpp_stuff.out >/dev/null 2>&1; then
 echo "Oh!  Smells like ANSI's been here." >&4
 echo "We can catify or stringify, separately or together!"
```

```
 cpp_stuff=42
elif $contains 'Reiser' cpp_stuff.out >/dev/null 2>&1; then
 echo "Ah, yes!  The good old days!" >&4
 echo "However, in the good old days we don't know how to stringify and"
 echo "catify at the same time."
 cpp_stuff=1
else
 $cat >&4 <<EOM
Hmm, I don't seem to be able to concatenate
 tokens with your cpp.
You're going to have to edit the values of CAT[2-5] in config.h...
EOM
?X: It would be nice to have configure remind us at the end that some manual
?X: intervention is needed -- FIXME
 cpp_stuff="/* Help! How do we handle cpp_stuff? */*/"
fi
$rm -f cpp_stuff.*
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/cpp_stuff.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Warn_v7EXT.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Warn_v7EXT.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:01:42  ram
?RCS: patch36: call ./v7 explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit issues warnings to V7 sites that they are living dangerously.
?X: This unit needs to get mentioned in End.U to get included.
?X:
?MAKE:Warn_v7EXT: package Guess
?MAKE: -pick add $@ %<
: Warnings
if ./v7;
```

```
 then
 cat <<EOM

NOTE: the V7 compiler may ignore some #undefs that $package uses.  If so,
you may get messages about redefining EXT.  Some V7 compilers also have
difficulties with #defines near buffer boundaries, so beware.  You may have
to play with the spacing in some .h files, believe it or not.
EOM
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Warn_v7EXT.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2017 H.Merijn Brand (original change by Tony Cook)
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_openat d_unlinkat d_renameat d_linkat d_fchmodat: Inlibc
?MAKE: -pick add $@ %<
?S:d_fchmodat:
?S: This variable conditionally defines the HAS_FCHMODAT symbol, which
?S: indicates the POSIX fchmodat() function is available.
?S:.
?S:d_linkat:
?S: This variable conditionally defines the HAS_LINKAT symbol, which
?S: indicates the POSIX linkat() function is available.
?S:.
?S:d_openat:
?S: This variable conditionally defines the HAS_OPENAT symbol, which
?S: indicates the POSIX openat() function is available.
?S:.
?S:d_renameat:
?S: This variable conditionally defines the HAS_RENAMEAT symbol, which
?S: indicates the POSIX renameat() function is available.
?S:.
?S:d_unlinkat:
?S: This variable
 conditionally defines the HAS_UNLINKAT symbol, which
?S: indicates the POSIX unlinkat() function isavailable.
?S:.
?C:HAS_FCHMODAT:
?C: This symbol is defined if the fchmodat() routine is available.
?C:.
?C:HAS_LINKAT:
?C: This symbol is defined if the linkat() routine is available.
```

```
?C:.
?C:HAS_OPENAT:
?C: This symbol is defined if the openat() routine is available.
?C:.
?C:HAS_RENAMEAT:
?C: This symbol is defined if the renameat() routine is available.
?C:.
?C:HAS_UNLINKAT:
?C: This symbol is defined if the unlinkat() routine is available.
?C:.
?H:#$d_fchmodat HAS_FCHMODAT /**/
?H:#$d_linkat HAS_LINKAT /**/
?H:#$d_openat HAS_OPENAT /**/
?H:#$d_renameat HAS_RENAMEAT /**/
?H:#$d_unlinkat HAS_UNLINKAT /**/
?H:.
?LINT:set d_openat d_unlinkat d_renameat d_linkat d_fchmodat
: check for openat, unlinkat, renameat, linkat, fchmodat
set openat d_openat
eval $inlibc

set unlinkat d_unlinkat
eval $inlibc

set renameat d_renameat
eval $inlibc

set linkat d_linkat
eval $inlibc

set fchmodat d_fchmodat
eval
 $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fsat.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_syscall.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: d_syscall.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_syscall: Inlibc
?MAKE: -pick add $@ %<
?S:d_syscall:
?S: This variable conditionally defines HAS_SYSCALL if syscall() is
?S: available call arbitrary system calls.
?S:.
?C:HAS_SYSCALL (SYSCALL):
?C: This symbol, if defined, indicates that the syscall routine is
?C: available to call arbitrary system calls. If undefined, that's tough.
?C:.
?H:#$d_syscall
 HAS_SYSCALL /**/
?H:.
?LINT:set d_syscall
: see if syscall exists
set syscall d_syscall
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_syscall.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Guess.U,v 3.0.1.5 1995/07/25 13:37:14 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Guess.U,v $
?RCS: Revision 3.0.1.5  1995/07/25  13:37:14  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  15:53:55  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: call ./xenix explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.3  1993/12/15  08:14:35  ram
?RCS: patch15: variable d_bsd was not always set properly
```

```
?RCS:
?RCS: Revision 3.0.1.2  1993/08/30  08:57:14  ram
?RCS:
 patch8: fixed comment which wrongly attributed the usrinc symbol
?RCS: patch8: no more ugly messages when no /usr/include/ctype.h
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:37:37  ram
?RCS: patch7: added support for OSF/1 machines
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit hazards some guesses as to what the general nature of the system
?X: is.  The information it collects here is used primarily to establish default
?X: answers to other questions.
?X:
?MAKE:Guess d_eunice d_xenix d_bsd: cat test echo n c contains \
 rm Loc eunicefix tr sysroot
?MAKE: -pick add $@ %<
?S:d_eunice:
?S: This variable conditionally defines the symbols EUNICE and VAX, which
?S: alerts the C program that it must deal with idiosyncrasies of VMS.
?S:.
?S:d_xenix:
?S: This variable conditionally defines the symbol XENIX, which alerts
?S: the C program that it runs under Xenix.
?S:.
?S:d_bsd:
?S: This symbol conditionally defines the
 symbol BSD when running on a
?S: BSD system.
?S:.
?C:EUNICE:
?C: This symbol, if defined, indicates that the program is being compiled
?C: under the EUNICE package under VMS.  The program will need to handle
?C: things like files that don't go away the first time you unlink them,
?C: due to version numbering.  It will also need to compensate for lack
?C: of a respectable link() command.
?C:.
?X: Should we define VMS here?  Is Eunice actually used anymore?
?X:?C:VMS:
?X:?C: This symbol, if defined, indicates that the program is running under
?X:?C: VMS.  It is currently only set in conjunction with the EUNICE symbol.
?X:?C:.
?C:XENIX:
?C: This symbol, if defined, indicates that the program is running under
?C: Xenix (at least 3.0 ?).
```

```
?C:.
?X:  We don't use BSD in the perl source.  It's too vague, and already
?X:  defined in some header files anyway (e.g. NetBSD).  This just gives
?X:  us a spurious redefinition error upon compilation.
?X: --Andy Dougherty  Feb 11, 1998
?X: ?C:BSD:
?X:
 ?C: This symbol, if defined, indicates that the program is running under
?X: ?C: a BSD system.
?X: ?C:.
?H:#$d_eunice EUNICE  /**/
?X:?H:#$d_eunice VMS  /**/
?H:#$d_xenix XENIX  /**/
?X: ?H:#$d_bsd BSD  /**/
?H:.
?F:./bsd ./usg ./v7 ./osf1 ./eunice ./xenix ./venix ./os2
?T:xxx
: make some quick guesses about what we are up against
echo " "
$echo $n "Hmm...  $c"
echo exit 1 >bsd
echo exit 1 >usg
echo exit 1 >v7
echo exit 1 >osf1
echo exit 1 >eunice
echo exit 1 >xenix
echo exit 1 >venix
echo exit 1 >os2
d_bsd="$undef"
?X:
?X: Do not use 'usrinc', or we get a circular dependency. because
?X: usrinc is defined in usrinc.U, which relies on us...
?X:
$cat $sysroot/usr/include/signal.h $sysroot/usr/include/sys/signal.h >foo 2>/dev/null
if test -f /osf_boot || $contains 'OSF/1' $sysroot/usr/include/ctype.h >/dev/null 2>&1
then
 echo "Looks kind of like an OSF/1 system, but we'll see..."
 echo exit 0 >osf1
elif test `echo abc | $tr a-z A-Z` = Abc ; then
 xxx=`./loc addbib blurfl $pth`
 if $test
 -f $xxx; then
 echo "Looks kind of like a USG system with BSD features, but we'll see..."
  echo exit 0 >bsd
  echo exit 0 >usg
 else
  if $contains SIGTSTP foo >/dev/null 2>&1 ; then
   echo "Looks kind of like an extended USG system, but we'll see..."
```

```
  else
   echo "Looks kind of like a USG system, but we'll see..."
  fi
  echo exit 0 >usg
 fi
elif $contains SIGTSTP foo >/dev/null 2>&1 ; then
 echo "Looks kind of like a BSD system, but we'll see..."
 d_bsd="$define"
 echo exit 0 >bsd
else
 echo "Looks kind of like a Version 7 system, but we'll see..."
 echo exit 0 >v7
fi
case "$eunicefix" in
*unixtovms*)
 $cat <<'EOI'
There is, however, a strange, musty smell in the air that reminds me of
something...hmm...yes...I've got it...there's a VMS nearby, or I'm a Blit.
EOI
 echo exit 0 >eunice
 d_eunice="$define"
: it so happens the Eunice I know will not run shell scripts in Unix format
 ;;
*)
 echo " "
 echo "Congratulations.  You aren't running Eunice."
 d_eunice="$undef"
 ;;
esac
: Detect
 OS2.  The p_ variable is set above in the Head.U unit.
: Note that this also -- wrongly -- detects e.g. dos-djgpp, which also uses
: semicolon as a patch separator
case "$p_" in
:) ;;
*)
 $cat <<'EOI'
I have the feeling something is not exactly right, however...don't tell me...
lemme think...does HAL ring a bell?...no, of course, you're only running OS/2!
(Or you may be running DOS with DJGPP.)
EOI
 echo exit 0 >os2
 ;;
esac
if test -f /xenix; then
 echo "Actually, this looks more like a XENIX system..."
 echo exit 0 >xenix
 d_xenix="$define"
```

```
else
 echo " "
 echo "It's not Xenix..."
 d_xenix="$undef"
fi
chmod +x xenix
$eunicefix xenix
if test -f /venix; then
 echo "Actually, this looks more like a VENIX system..."
 echo exit 0 >venix
else
 echo " "
 if ./xenix; then
  : null
 else
  echo "Nor is it Venix..."
 fi
fi
chmod +x bsd usg v7 osf1 eunice xenix venix os2
$eunicefix bsd usg v7 osf1 eunice xenix venix os2
$rm -f foo
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Guess.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_sigsetjmp.U,v 3.0.1.1 1997/02/28 15:44:33 ram Exp $
?RCS:
?RCS: Copyright (c) 1996,1998 Andy Dougherty
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_sigsetjmp.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:44:33  ram
?RCS: patch61: created
?RCS:
?MAKE:d_sigsetjmp: Compile Setvar cat rm_try run i_stdlib
?MAKE: -pick add $@ %<
?S:d_sigsetjmp:
```

```
?S: This variable conditionally defines the HAS_SIGSETJMP symbol,
?S: which
 indicates that the sigsetjmp() routine is available to
?S: call setjmp() and optionally save the process's signal mask.
?S:.
?C:HAS_SIGSETJMP:
?C: This variable indicates to the C program that the sigsetjmp()
?C: routine is available to save the calling process's registers
?C: and stack environment for later use by siglongjmp(), and
?C: to optionally save the process's signal mask.  See
?C: Sigjmp_buf, Sigsetjmp, and Siglongjmp.
?C:.
?C:Sigjmp_buf:
?C: This is the buffer type to be used with Sigsetjmp and Siglongjmp.
?C:.
?C:Sigsetjmp:
?C: This macro is used in the same way as sigsetjmp(), but will invoke
?C: traditional setjmp() if sigsetjmp isn't available.
?C: See HAS_SIGSETJMP.
?C:.
?C:Siglongjmp:
?C: This macro is used in the same way as siglongjmp(), but will invoke
?C: traditional longjmp() if siglongjmp isn't available.
?C: See HAS_SIGSETJMP.
?C:.
?H:?%<:#$d_sigsetjmp HAS_SIGSETJMP /**/
?H:?%<:#ifdef HAS_SIGSETJMP
?H:?%<:#define Sigjmp_buf sigjmp_buf
?H:?%<:#define Sigsetjmp(buf,save_mask)
 sigsetjmp((buf),(save_mask))
?H:?%<:#define Siglongjmp(buf,retval) siglongjmp((buf),(retval))
?H:?%<:#else
?H:?%<:#define Sigjmp_buf jmp_buf
?H:?%<:#define Sigsetjmp(buf,save_mask) setjmp((buf))
?H:?%<:#define Siglongjmp(buf,retval) longjmp((buf),(retval))
?H:?%<:#endif
?H:.
?W:%<:Sigjmp_buf Sigsetjmp Siglongjmp
?F:!try
?LINT:set d_sigsetjmp
: see if sigsetjmp exists
?X: We can't check for these symbols with Inlibc because sigsetjmp
?X: is (sometimes? always?) a macro under GCC
echo " "
case "$d_sigsetjmp" in
")
 $cat >try.c <<EOP
#include <setjmp.h>
```

```
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
sigjmp_buf env;
int set = 1;
int main()
{
 if (sigsetjmp(env,1))
  exit(set);
 set = 0;
 siglongjmp(env, 1);
 exit(1);
}
EOP
 set try
 if eval $compile; then
  if $run ./try >/dev/null 2>&1; then
   echo "POSIX sigsetjmp found." >&4
   val="$define"
  else
   $cat >&4 <<EOM
Uh-Oh! You have POSIX sigsetjmp and siglongjmp, but they do not work properly!!
I'll
 ignore them.
EOM
   val="$undef"
  fi
 else
  echo "sigsetjmp not found." >&4
  val="$undef"
 fi
 ;;
*) val="$d_sigsetjmp"
 case "$d_sigsetjmp" in
 $define) echo "POSIX sigsetjmp found." >&4;;
 $undef) echo "sigsetjmp not found." >&4;;
 esac
 ;;
esac
set d_sigsetjmp
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_sigsetjmp.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getnetprotos.U,v $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_getnetprotos : Hasproto i_netdb
?MAKE: -pick add $@ %<
?S:d_getnetprotos:
?S: This variable conditionally defines the HAS_GETNET_PROTOS symbol,
?S: which indicates to the C program that <netdb.h> supplies
?S: prototypes for the various getnet*() functions.
?S: See also netdbtype.U for probing for various netdb types.
?S:.
?C:HAS_GETNET_PROTOS:
?C: This symbol, if defined, indicates that <netdb.h> includes
?C: prototypes for getnetent(), getnetbyname(), and
?C: getnetbyaddr().  Otherwise,
 it is up to the program to guess
?C: them.  See netdbtype.U for probing for various Netdb_xxx_t types.
?C:.
?H:#$d_getnetprotos HAS_GETNET_PROTOS /**/
?H:.
?LINT:set d_getnetprotos
: see if prototypes for various getnetxxx netdb.h functions are available
echo " "
set d_getnetprotos getnetent $i_netdb netdb.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/d_getnetprotos.U
No license file was found, but licenses were detected in source scan.

```
# $Id: errnolist.sh,v 3.0.1.1 1994/01/24 14:00:00 ram Exp ram $
#
#  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
#
#  You may redistribute only under the terms of the Artistic Licence,
#  as specified in the README file that comes with the distribution.
#  You may reuse parts of this distribution only within the terms of
#  that same Artistic Licence; a copy of which may be found at the root
```

```
#  of the source tree for dist 4.0.
#
# Original Author: Harlan Stenn <harlan@mumps.pfcs.com>
#
# $Log: errnolist.sh,v $
# Revision 3.0.1.1  1994/01/24  14:00:00  ram
# patch16: changed top ln-style config.sh lookup into test-style one
#
# Revision 3.0  1993/08/18  12:04:36  ram
# Baseline for dist 3.0 netwide release.
#

case $CONFIG in
")
 if test -f config.sh; then TOP=.;
 elif test -f ../config.sh; then TOP=..;
 elif test -f ../../config.sh; then TOP=../..;
 elif test -f ../../../config.sh; then TOP=../../..;
 elif
 test -f ../../../../config.sh; then TOP=../../../..;
 else
  echo "Can't find config.sh."; exit 1
 fi
 . $TOP/config.sh
 ;;
esac
case "$0" in
*/*) cd `expr X$0 : 'X\(.*\)/'` ;;
esac
case "$errnolistc" in
") ;;
*)
 echo "Making $errnolistc ..."
 awk -f errnolist.a < /usr/include/sys/errno.h > $errnolistc
 echo "It would be a good idea to make sure that $errnolistc is correct."
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/errnolist.SH
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: kernel.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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```

```
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: kernel.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:kernel: Getfile test
?MAKE: -pick add $@ %<
?S:kernel:
?S: This variable becomes the (fully rooted) path name of the kernel.
?S:.
: find the name of the kernel.
echo " "
case "$kernel" in
")
 if $test -r /unix; then
  dflt=/unix
 elif $test -r /vmunix; then
  dflt=/vmunix
 elif $test -r /xenix; then
  dflt=/xenix
 elif $test -r /mach; then
  dflt=/mach
 elif
 $test -r /dgux; then
  dflt=/dgux
 elif $test -r /hp-ux; then
  dflt=/hp-ux
 elif $test -r /syst; then
  dflt=/syst
 elif $test -r /arix; then
  dflt=/arix
 elif $test -r /irix; then
  dflt=/arix
 else
  dflt='unknown'
  set X /*x
  shift
  case $# in
  1)
   if $test -r "$1"; then
    dflt="$1"
   fi
   ;;
  esac
 fi
```

```
 ;;
*)
 dflt="$kernel"
 ;;
esac
fn=f
rp='What is the name of your kernel?'
. ./getfile
kernel="$ans"
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/kernel.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setegid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setegid.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setegid: Inlibc
?MAKE: -pick add $@ %<
?S:d_setegid:
?S: This variable conditionally defines the HAS_SETEGID symbol, which
?S: indicates to the C program that the setegid() routine is available
?S: to change the effective gid of the current program.
?S:.
?C:HAS_SETEGID (SETEGID):
?C: This symbol, if defined, indicates that the setegid
 routine is available
?C: to change the effective gid of the current program.
?C:.
?H:#$d_setegid HAS_SETEGID  /**/
?H:.
?LINT:set d_setegid
: see if setegid exists
set setegid d_setegid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setegid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endpwent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_endpwent_r endpwent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_pwd extern_C
?MAKE: -pick add $@ %<
?S:d_endpwent_r:
?S: This variable conditionally defines the HAS_ENDPWENT_R symbol,
?S: which indicates to the C program that the endpwent_r()
?S: routine is available.
?S:.
?S:endpwent_r_proto:
?S: This variable encodes the prototype of endpwent_r.
?S: It is zero if d_endpwent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endpwent_r
?S: is defined.
?S:.
?C:HAS_ENDPWENT_R:
?C: This symbol, if defined, indicates that the endpwent_r routine
?C: is available to
 endpwent re-entrantly.
?C:.
?C:ENDPWENT_R_PROTO:
?C: This symbol encodes the prototype of endpwent_r.
?C: It is zero if d_endpwent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endpwent_r
?C: is defined.
?C:.
?H:#$d_endpwent_r HAS_ENDPWENT_R /**/
?H:#define ENDPWENT_R_PROTO $endpwent_r_proto /**/
?H:.
?T:try hdrs d_endpwent_r_proto
: see if endpwent_r exists
set endpwent_r d_endpwent_r
eval $inlibc
case "$d_endpwent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_pwd pwd.h"
```

```
 case "$d_endpwent_r_proto:$usethreads" in
 ":define") d_endpwent_r_proto=define
  set d_endpwent_r_proto endpwent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_endpwent_r_proto" in
 define)
 case "$endpwent_r_proto" in
 "|0) try='int endpwent_r(FILE**);'
 ./protochk "$extern_C $try" $hdrs && endpwent_r_proto=I_H ;;
 esac
 case "$endpwent_r_proto" in
 "|0) try='void endpwent_r(FILE**);'
 ./protochk "$extern_C $try" $hdrs && endpwent_r_proto=V_H ;;
 esac
 case "$endpwent_r_proto"
 in
 "|0) d_endpwent_r=undef
  endpwent_r_proto=0
  echo "Disabling endpwent_r, cannot determine prototype." >&4 ;;
 * ) case "$endpwent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) endpwent_r_proto="REENTRANT_PROTO_$endpwent_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "endpwent_r has no prototype, not using it." >&4 ;;
  esac
  d_endpwent_r=undef
  endpwent_r_proto=0
  ;;
 esac
 ;;
*) endpwent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_endpwent_r.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
```

```
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:uidformat: uidsize uidsign ivsize uvsize longsize intsize shortsize \
 ivdformat uvuformat test echo
?MAKE: -pick add $@ %<
?S:uidformat:
?S: This variable contains the format string used for printing a Uid_t.
?S:.
?C:Uid_t_f:
?C: This symbol defines the format string used for printing a Uid_t.
?C:.
?H:#define Uid_t_f  $uidformat  /**/
?H:.
: Check format string for UID
echo " "
$echo "Checking the format string to be used for uids..." >&4

case "$uidsign" in
-1) if $test X"$uidsize" = X"$ivsize"; then
  uidformat="$ivdformat"
 else
  if $test X"$uidsize" = X"$longsize"; then
   uidformat="'ld'"
  else
   if $test X"$uidsize" = X"$intsize"; then
    uidformat="'d'"
   else
    if $test X"$uidsize"
 = X"$shortsize"; then
     uidformat="'hd'"
    fi
   fi
  fi
 fi
 ;;
*) if $test X"$uidsize" = X"$uvsize"; then
  uidformat="$uvuformat"
 else
  if $test X"$uidsize" = X"$longsize"; then
   uidformat="'lu'"
  else
   if $test X"$uidsize" = X"$intsize"; then
    uidformat="'u'"
   else
    if $test X"$uidsize" = X"$shortsize"; then
     uidformat="'hu'"
```

```
    fi
   fi
  fi
 fi
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/uidf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_remainder: Inlibc
?MAKE: -pick add $@ %<
?S:d_remainder:
?S: This variable conditionally defines the HAS_REMAINDER symbol, which
?S: indicates to the C program that the remainder() routine is available.
?S:.
?C:HAS_REMAINDER:
?C: This symbol, if defined, indicates that the remainder routine is
?C: available to return the floating-point remainder.
?C:.
?H:#$d_remainder HAS_REMAINDER  /**/
?H:.
?LINT:set d_remainder
: see if remainder exists
set remainder d_remainder
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_remainder.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_hidnet.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_hidnet.U,v $
```

```
?RCS: Revision 3.0  1993/08/18  12:06:20  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_hidnet hiddennet: cat sed myhostname mydomain Myread Oldconfig
?MAKE: -pick add $@ %<
?S:d_hidnet:
?S: This variable conditionally defines the symbol HIDDEN_NET, which
?S: tells the C program that it should pretend it is on a different
?S: host for purposes of advertising a mailing address.
?S:.
?S:hiddennet:
?S: This variable contains
 the value eventually given to the symbol
?S: HIDDEN_NET, if d_hidnet defines it.  If defined, it's the name
?S: of the host which serves as the mail server for a network that
?S: is invisible to the outside world.
?S:.
?C:HIDDEN_NET (HIDDENNET):
?C: This symbol, if defined, contains the host name that you want to
?C: advertise to the outside world.  This name can be different from
?C: your actual host name, as long as the machine you specify knows
?C: how to forward mail to you.
?C:.
?H:#$d_hidnet HIDDEN_NET "$hiddennet" /**/
?H:.
: now get the host name to advertise as our mailing address
case "$hiddennet" in
") dflt=n;;
*) dflt=y;;
esac
$cat <<EOM

Some sites are on "hidden" networks, in the sense that the network appears
to the outside world as a single machine.  The advertised name of any host
on this hidden network is the name of one machine on the local network which
knows how to forward mail to any other host on the hidden network.

Do you wish to advertise a different hostname
 to the world than the one your
own host ($myhostname$mydomain) has?

EOM
rp='Use "hidden" network?'
. ./myread
case "$ans" in
n*) d_hidnet="$undef" hiddennet=";;
*)
 d_hidnet="$define"
```

```
 echo " "
 case "$hiddennet" in
 ") dflt=`echo $mydomain | $sed -e 's/^\.//'`;;
 *) dflt="$hiddennet";;
 esac
 rp='What hostname do you wish to advertise?'
 . ./myread
 hiddennet="$ans"
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_hidnet.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_syswait.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_syswait.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:42  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit looks wether <sys/wait.h> is available or not
?X:
?MAKE:i_syswait: Inhdr
?MAKE: -pick add $@ %<
?S:i_syswait:
?S: This variable conditionally defines I_SYS_WAIT, which indicates
?S: to the C program that it should include <sys/wait.h>.
?S:.
?C:I_SYS_WAIT (I_SYSWAIT):
?C: This symbol, if defined, indicates to the C program
 that it should
?C: include <sys/wait.h>.
?C:.
?H:#$i_syswait I_SYS_WAIT /**/
?H:.
?LINT:set i_syswait
: see if this is a syswait system
```

```
set sys/wait.h i_syswait
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_syswait.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sbrksmart.U,v 3.0.1.2 1995/01/11 15:35:41 ram Exp $
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sbrksmart.U,v $
?RCS: Revision 3.0.1.2  1995/01/11  15:35:41  ram
?RCS: patch45: now sets sbrksmart to undef explicitly when lacking sbrk()
?RCS: patch45: forgot a cast when using return value from sbrk()
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:16:45  ram
?RCS: patch16: created
?RCS:
?MAKE:sbrksmart: cat d_sbrk Compile rm
?MAKE: -pick add $@ %<
?S:sbrksmart:
?S: This variable conditionally defines HAS_SMART_SBRK if the sbrk()
?S: routine honors a negative
 argument to lower the break value.
?S:.
?C:HAS_SMART_SBRK:
?C: This symbol is defined when the sbrk() system call may be used with
?C: a negative argument to lower the break value, therefore releasing
?C: core to the system. If not, you'd probably be better off using the
?C: mmap() system call.
?C:.
?H:#$sbrksmart HAS_SMART_SBRK /**/
?H:.
?T:dumb
?F:!sbrk
: see if sbrk can release core to the kernel
echo " "
case "$d_sbrk" in
"$define")
 echo "Let's see if your sbrk() is smart enough to release core..." >&4
```

```
 $cat > sbrk.c <<'EOC'
#define INC 256  /* Small enough to be less than a page size */

int main()
{
 char *obrk = (char *) sbrk(0);
 char *nbrk;

 nbrk = (char *) sbrk(INC);
 if (nbrk == (char *) -1)
  exit(1); /* Not enough memory */
 if (nbrk != obrk)
  exit(2); /* Unreliable sbrk() */
 nbrk = (char *) sbrk(-INC);
 if (nbrk == (char *) -1)
  exit(3); /* May have understood negative arg as huge positive */
 if (obrk != (char *) sbrk(0))
  exit(4); /* Not smart, definitely */

 exit(0);  /*
 Ok */
}
EOC
 sbrksmart="$undef"
 dumb='-- assuming dumb sbrk().'
 set sbrk
 if eval $compile_ok; then
  ./sbrk >/dev/null 2>&1
  case $? in
  0) sbrksmart="$define"
   echo "Yes, it can be used with negative values." ;;
  1) echo "Sorry, not enough memory $dumb" ;;
  2) echo "No it's not, and besides it seems to be buggy..." ;;
  3) echo "No, it fails with negative values." ;;
  4) echo "Nope, your sbrk() is too dumb." ;;
  *) echo "Err... Unexpected result $dumb" ;;
  esac
 else
  echo "(Could not compile test program $dumb)"
 fi
 ;;
*)
 echo "Since you don't have sbrk(), let's forget about the smart test!"
 sbrksmart="$undef"
 ;;
esac
$rm -f sbrk sbrk.* core
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/sbrksmart.U
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```
?RCS: $Id: Prefixup.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Prefixup.U,v $
?RCS: Revision 3.0.1.1  1995/01/30  14:30:40  ram
?RCS: patch49: created
?RCS:
?X:
?X: Used as: "set dflt; eval $prefixup" to set $dflt to be $prefix/dir
?X: instead of $prefixexp/dir, in case portability was involved somehow
?X: and $prefix uses ~name expansion.
?X:
?MAKE:Prefixup: prefix prefixexp
?MAKE: -pick add $@ %<
?LINT:define prefixup
?S:prefixup:
?S: This shell variable is used internally by Configure to reset
?S: the leading
 installation prefix correctly when $prefix uses
?S: ~name expansion.
?S:  set dflt
?S:  eval $prefixup
?S: That will set $dflt to $prefix/dir if it was $prefixexp/dir and
?S: $prefix differs from $prefixexp.
?S:.
?V:prefixup
: set the prefixup variable, to restore leading tilda escape
prefixup='case "$prefixexp" in
"$prefix") ;;
*) eval "$1=\`echo \$$1 | sed \"s,^$prefixexp,$prefix,\"\`";;
esac'
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Prefixup.U

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```
?RCS: $Id: d_strccmp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strccmp.U,v $
?RCS: Revision 3.0.1.2  1994/05/06  14:54:34  ram
?RCS: patch23: fixed a typo (WED)
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:04:39  ram
?RCS: patch10: created (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strccmp: Inlibc
?MAKE: -pick add $@ %<
?S:d_strccmp:
?S: This variable conditionally defines the HAS_STRCASECMP symbol, which
?S: indicates to the C program
 that the strcasecmp() routine is available
?S: for case-insensitive string compares.
?S:.
?C:HAS_STRCASECMP:
?C: This symbol, if defined, indicates that the strcasecmp() routine is
?C: available for case-insensitive string compares.
?C:.
?H:#$d_strccmp HAS_STRCASECMP /**/
?H:.
?LINT:set d_strccmp
: see if strcasecmp exists
set strcasecmp d_strccmp
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strccmp.U
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```
?RCS: $Id$
?RCS:
```

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_dladdr.U,v $
?RCS:
?MAKE:d_dladdr: Inlibc
?MAKE: -pick add $@ %<
?S:d_dladdr:
?S: This variable conditionally defines the HAS_DLADDR symbol, which
?S: indicates to the C program that the dladdr() routine is available
?S: to get a stack trace.
?S:.
?C:HAS_DLADDR:
?C: This symbol, if defined, indicates that the dladdr() routine is
?C: available to query dynamic linker information for an address.
?C: The <dlfcn.h> header must be included to use this routine.
?C:.
?H:#$d_dladdr HAS_DLADDR /**/
?H:.
?LINT:set d_dladdr
:
 see if dladdr exists
set dladdr d_dladdr
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_dladdr.U
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```
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?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: perlpath.U,v $
?RCS: Revision 3.0.1.2  1995/09/25  09:17:04  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
```

```
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:33:53  ram
?RCS: patch45: can now use Loc variables since path stripping is deferred
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:32  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this unit is to locate perl good enough to construct a #!
?X:
?MAKE:perlpath: Getfile Oldconfig Loc perl
?MAKE: -pick
 add $@ %<
?Y:TOP
?S:perlpath:
?S: This variable contains the eventual value of the PERLPATH symbol,
?S: which contains the absolute location of the perl interpreter.
?S:.
?C:PERLPATH:
?C: This symbol contains the absolute location of the perl interpreter.
?C:.
?H:#define PERLPATH "$perlpath"  /**/
?H:.
: determine perl absolute location
case "$perlpath" in
")
 if test -f /usr/bin/perl; then
  dflt=/usr/bin/perl
 else
  case "$perl" in
  */*) dflt="$perl";;
  *) dflt=/usr/bin/perl;;
  esac
 fi
 ;;
*)  dflt="$perlpath"
 ;;
esac
echo " "
fn=f~/
rp="Where is perl located on your system?"
. ./getfile
perlpath="$ans"
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/perlpath.U

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```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_statfs_f_flags: \
 Hasfield i_sysparam i_sysmount i_systypes \
 i_sysvfs i_sysstatfs Setvar d_statfs_s
?MAKE: -pick add $@ %<
?S:d_statfs_f_flags:
?S: This variable conditionally defines the HAS_STRUCT_STATFS_F_FLAGS
?S: symbol, which indicates to struct statfs from has f_flags member.
?S: This kind of struct statfs is coming from sys/mount.h (BSD),
?S: not from sys/statfs.h (SYSV).
?S:.
?C:HAS_STRUCT_STATFS_F_FLAGS:
?C: This symbol, if defined, indicates that the struct statfs
?C: does have the f_flags member containing the mount flags of
?C: the filesystem containing the file.
?C: This kind of struct statfs is coming from <sys/mount.h> (BSD 4.3),
?C: not from <sys/statfs.h> (SYSV).  Older BSDs
 (like Ultrix) do not
?C: have statfs() and struct statfs, they have ustat() and getmnt()
?C: with struct ustat and struct fs_data.
?C:.
?H:#$d_statfs_f_flags HAS_STRUCT_STATFS_F_FLAGS  /**/
?H:.
?LINT:set d_statfs_f_flags
: see if struct statfs knows about f_flags
case "$d_statfs_s" in
define)
 echo " "
 echo "Checking to see if your struct statfs has f_flags field..." >&4
 set d_statfs_f_flags statfs f_flags $i_systypes sys/types.h $i_sysparam sys/param.h $i_sysmount sys/mount.h
$i_sysvfs sys/vfs.h $i_sysstatfs sys/statfs.h
 eval $hasfield
 ;;
*) val="$undef"
 set d_statfs_f_flags
 eval $setvar
 ;;
esac
case "$d_statfs_f_flags" in
"$define")      echo "Yes, it does."   ;;
```

```
*)          echo "No, it doesn't." ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_statfs_f_flags.U
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```
?RCS: $Id$
?RCS:
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?RCS:
?MAKE:d_signbit: nvtype Compile Setvar cat run rm_try echo n c i_sunmath
?MAKE: -pick add $@ %<
?S:d_signbit:
?S: This variable conditionally defines the HAS_SIGNBIT symbol, which
?S: indicates to the C program that the signbit() routine is available
?S: and safe to use with perl's intern NV type.
?S:.
?C:HAS_SIGNBIT:
?C: This symbol, if defined, indicates that the signbit routine is
?C: available to check if the given number has the sign bit set.
?C: This should include correct testing of -0.0.  This will only be set
?C: if the signbit() routine is safe to use with the NV type used internally
?C: in perl.  Users should call Perl_signbit(), which will be #defined to
?C: the system's signbit() function or macro if this symbol is defined.
?C:.
?H:#$d_signbit
 HAS_SIGNBIT  /**/
?H:.
?F:!try
?LINT:set d_signbit
: see if signbit exists
$echo $n "Checking to see if you have signbit() available to work on $nvtype... $c" >&4
$cat >try.c <<EOCP
#$i_sunmath I_SUNMATH
#include <math.h>
#ifdef I_SUNMATH  /* Solaris special math library */
#  include <sunmath.h>
#endif
#define NV $nvtype
int main(int argc, char **argv)
{
   NV x = 0.0;
   NV y = -1.0;
   if ((signbit(x) == 0) && (signbit(y) != 0))
 return 0;
```

```
   else
 return 1;
}
EOCP
val="$undef"
set try
if eval $compile; then
   if $run ./try; then
       $echo "Yes." >&4
 val="$define"
   else
       $echo "Signbit seems to be available, but doesn't work as I expected."
       $echo "I won't use it." >&4
 val="$undef"
   fi
else
   $echo "Nope." >&4
   dflt="$undef"
fi
set d_signbit
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_signbit.U
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```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_prctl d_prctl_set_name: Inlibc cat Compile run rm_try
?MAKE: -pick add $@ %<
?S:d_prctl:
?S: This variable conditionally defines the HAS_PRCTL symbol, which
?S: indicates to the C program that the prctl() routine is available.
?S: Note that there are at least two prctl variants: Linux and Irix.
?S: While they are somewhat similar, they are incompatible.
?S:.
?S:d_prctl_set_name:
?S: This variable conditionally defines the HAS_PRCTL_SET_NAME symbol,
?S: which indicates to the C program that the prctl() routine supports
?S: the PR_SET_NAME option.
?S:.
```

```
?C:HAS_PRCTL:
?C: This symbol, if defined, indicates that the prctl routine is
?C: available to set process title.
?C: Note that there are at least two
 prctl variants: Linux and Irix.
?C: While they are somewhat similar, they are incompatible.
?C:.
?C:HAS_PRCTL_SET_NAME:
?C: This symbol, if defined, indicates that the prctl routine is
?C: available to set process title and supports PR_SET_NAME.
?C:.
?H:#$d_prctl HAS_PRCTL  /**/
?H:#$d_prctl_set_name HAS_PRCTL_SET_NAME  /**/
?H:.
?F:!try
?LINT:set d_prctl
: see if prctl exists
set prctl d_prctl
eval $inlibc

: see if prctl supports PR_SET_NAME
d_prctl_set_name=$undef
case $d_prctl in
   $define)
 $cat >try.c <<EOM
#ifdef __ANDROID__
#include <unistd.h>
#endif
#include <sys/prctl.h>

int main (int argc, char *argv[])
{
   return (prctl (PR_SET_NAME, "Test"));
   } /* main */
EOM
 set try
 if eval $compile_ok && $run ./try; then
     echo "Your prctl (PR_SET_NAME, ...) works"
     d_prctl_set_name=$define
     fi
 $rm_try
 ;;
   esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_prctl.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_xdrs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_xdrs.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_xdrs: cat Csym Setvar
?MAKE: -pick add $@ %<
?S:d_xdrs:
?S: This symbol conditionally defines HAS_XDRS which indicates to the C
?S: program that XDR serialization routines are available.
?S:.
?C:HAS_XDRS (XDRS):
?C: This symbol if defined indicates to the C program that the XDR
?C: serialization routines are available to transfer data
 accross
?C: various architectures.
?C:.
?H:#$d_xdrs HAS_XDRS /**/
?H:.
?LINT:set d_xdrs
: see if XDR is available
echo " "
if set xdr_int val -f d_xdrs; eval $csym; $val; then
 echo "Ahh! You have XDR routines for network communications." >&4
 val="$define"
else
 $cat >&4 <<EOM
Sigh! You do not have XDR routines -- Network communications may be hazardous.
EOM
 val="$undef"
fi
set d_xdrs
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_xdrs.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_union_semun.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_union_semun.U,v $
?RCS:
?MAKE:d_union_semun d_semctl_semun d_semctl_semid_ds: Compile Setvar Myread run \
 cat rm_try d_sem
?MAKE: -pick add $@ %<
?S:d_union_semun:
?S: This variable conditionally defines HAS_UNION_SEMUN if the
?S: union semun is defined by including <sys/sem.h>.
?S:.
?S:d_semctl_semun:
?S: This variable conditionally defines USE_SEMCTL_SEMUN, which
?S: indicates that union semun is to be used for semctl IPC_STAT.
?S:.
?S:d_semctl_semid_ds:
?S: This variable conditionally defines USE_SEMCTL_SEMID_DS, which
?S: indicates that struct semid_ds * is to be used for semctl IPC_STAT.
?S:.
?C:HAS_UNION_SEMUN:
?C: This symbol, if defined, indicates that the union semun
 is
?C: defined by including <sys/sem.h>.  If not, the user code
?C: probably needs to define it as:
?C:  union semun {
?C:     int val;
?C:     struct semid_ds *buf;
?C:     unsigned short *array;
?C:  }
?C:.
?C:USE_SEMCTL_SEMUN:
?C: This symbol, if defined, indicates that union semun is
?C: used for semctl IPC_STAT.
?C:.
?C:USE_SEMCTL_SEMID_DS:
?C: This symbol, if defined, indicates that struct semid_ds * is
?C: used for semctl IPC_STAT.
?C:.
?H:#$d_union_semun HAS_UNION_SEMUN /**/
?H:#$d_semctl_semun USE_SEMCTL_SEMUN /**/
?H:#$d_semctl_semid_ds USE_SEMCTL_SEMID_DS /**/
```

```
?H:.
?T:xxx also
?F:!try !tryh.h
?LINT: set d_union_semun d_semctl_semun d_semctl_semid_ds
: see whether sys/sem.h defines union semun
echo " "
$cat > try.c <<'END'
#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/sem.h>
int main () { union semun semun; semun.buf = 0; }
END
set try
if eval $compile; then
   echo "You have union semun in <sys/sem.h>." >&4
   val="$define"
else
   echo "You do not have union
 semun in <sys/sem.h>." >&4
   val="$undef"
fi
$rm_try
set d_union_semun
eval $setvar

: see how to do semctl IPC_STAT
case "$d_sem" in
$define)
   echo " "
?X: use tryh.h instead of try.h because $rm_try cleans up try.*
   $cat > tryh.h <<END
#ifndef S_IRUSR
#   ifdef S_IREAD
# define S_IRUSR S_IREAD
# define S_IWUSR S_IWRITE
# define S_IXUSR S_IEXEC
#   else
# define S_IRUSR 0400
# define S_IWUSR 0200
# define S_IXUSR 0100
#   endif
#   define S_IRGRP (S_IRUSR>>3)
#   define S_IWGRP (S_IWUSR>>3)
#   define S_IXGRP (S_IXUSR>>3)
#   define S_IROTH (S_IRUSR>>6)
#   define S_IWOTH (S_IWUSR>>6)
#   define S_IXOTH (S_IXUSR>>6)
#endif
```

```
#ifndef S_IRWXU
#   define S_IRWXU (S_IRUSR|S_IWUSR|S_IXUSR)
#   define S_IRWXG (S_IRGRP|S_IWGRP|S_IXGRP)
#   define S_IRWXO (S_IROTH|S_IWOTH|S_IXOTH)
#endif
END
   : see whether semctl IPC_STAT can use union semun
   case "$d_semctl_semun" in
   ")
     val="$undef"
     $cat > try.c <<END
#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/sem.h>
#include
 <sys/stat.h>
#include <stdio.h>
#include <errno.h>
#include "tryh.h"
#ifndef errno
extern int errno;
#endif
#$d_union_semun HAS_UNION_SEMUN
int main() {
   union semun
#ifndef HAS_UNION_SEMUN
   {
 int val;
 struct semid_ds *buf;
 unsigned short *array;
   }
#endif
   arg;
   int sem, st;

#if defined(IPC_PRIVATE) && defined(S_IRWXU) && defined(S_IRWXG) && defined(S_IRWXO) &&
defined(IPC_CREAT)
   sem = semget(IPC_PRIVATE, 1, S_IRWXU|S_IRWXG|S_IRWXO|IPC_CREAT);
   if (sem > -1) {
 struct semid_ds argbuf;
 arg.buf = &argbuf;
# ifdef IPC_STAT
 st = semctl(sem, 0, IPC_STAT, arg);
 if (st == 0)
     printf("semun\n");
 else
# endif /* IPC_STAT */
     printf("semctl IPC_STAT failed: errno = %d\n", errno);
```

```
# ifdef IPC_RMID
 if (semctl(sem, 0, IPC_RMID, arg) != 0)
# endif /* IPC_RMID */
     printf("semctl IPC_RMID failed: errno = %d\n", errno);
   } else
#endif /* IPC_PRIVATE && ... */
 printf("semget failed: errno = %d\n", errno);
 return 0;
}
END
     set try

     if eval $compile; then
   xxx=`$run ./try`
         case "$xxx" in
         semun) val="$define" ;;
         esac
     fi
     $rm_try
     set d_semctl_semun
     eval $setvar
     ;;
   esac
   case "$d_semctl_semun" in
   $define)
       echo "You can use union semun for semctl IPC_STAT." >&4
 also='also'
       ;;
   *)  echo "You cannot use union semun for semctl IPC_STAT." >&4
 also=''
       ;;
   esac

   : see whether semctl IPC_STAT can use struct semid_ds pointer
   case "$d_semctl_semid_ds" in
   '')
     val="$undef"
     $cat > try.c <<'END'
#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/sem.h>
#include <sys/stat.h>
#include "tryh.h"
#include <stdio.h>
#include <errno.h>
#ifndef errno
extern int errno;
#endif
```

```
int main() {
   union semun
#ifndef HAS_UNION_SEMUN
   {
 int val;
 struct semid_ds *buf;
 unsigned short *array;
   }
#endif
   arg;
   struct semid_ds argbuf;
   int sem, st;

#if defined(IPC_PRIVATE) && defined(S_IRWXU) &&
 defined(S_IRWXG) &&  defined(S_IRWXO) && defined(IPC_CREAT)
   sem = semget(IPC_PRIVATE, 1, S_IRWXU|S_IRWXG|S_IRWXO|IPC_CREAT);
   if (sem > -1) {
 arg.buf = &argbuf;
# ifdef IPC_STAT
 st = semctl(sem, 0, IPC_STAT, arg);
 if (st == 0)
     printf("semid_ds\n");
 else
# endif /* IPC_STAT */
     printf("semctl IPC_STAT failed: errno = %d\n", errno);
# ifdef IPC_RMID
 if (semctl(sem, 0, IPC_RMID, arg) != 0)
# endif /* IPC_RMID */
     printf("semctl IPC_RMID failed: errno = %d\n", errno);
   } else
#endif /* IPC_PRIVATE && ... */
 printf("semget failed: errno = %d\n", errno);

   return 0;
}
END
     set try
     if eval $compile; then
         xxx=`$run ./try`
         case "$xxx" in
         semid_ds) val="$define" ;;
         esac
     fi
     $rm_try
     set d_semctl_semid_ds
     eval $setvar
     ;;
   esac
```

```
  case "$d_semctl_semid_ds" in
  $define)
      echo "You can $also use struct semid_ds* for semctl IPC_STAT." >&4
      ;;
  *)  echo "You cannot use
 struct semid_ds* for semctl IPC_STAT." >&4
      ;;
  esac
  ;;
*)  val="$undef"

  # We do not have the full sem*(2) library, so assume we can not
  # use either.

  set d_semctl_semun
  eval $setvar

  set d_semctl_semid_ds
  eval $setvar
  ;;
esac
$rm_try tryh.h
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_union_semun.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: install.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: install.U,v $
?RCS: Revision 3.0.1.2  1995/09/25  09:16:37  ram
?RCS: patch59: all possible install programs are now looked for
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:30:41  ram
?RCS: patch45: created
?RCS:
?MAKE:install installdir: Loc Oldconfig Getfile cat test startsh rm +cc \
 eunicefix package contains mkdir echo n c
?MAKE: -pick add $@ %<
```

```
?S:install:
?S: This variable contains the name of an install program that can accept
?S: BSD-style arguments.
 It must correctly support -c, -s, and -m at least.
?S: It is a fully qualified pathname when found. If you have a local
?S: install.SH file at the root directory of your package, it is assumed to
?S: be the default script emulating a BSD install and the variable will be
?S: set to ./install. Otherwise, it is set to plain 'install', relying on
?S: the user's PATH to perform miracles.
?S:.
?S:installdir:
?S: This variable contains the name of a program that can install nested
?S: directories. Often set to 'mkdir -p', it can also be 'install -d' if
?S: you have such a beast and lack the former. If you have an install.SH
?S: file at the root directory of your package, it will be used in last
?S: resort, setting the variable to './install -d'. Otherwise, it is set to
?S: plain 'mkdir', and cross your fingers!
?S:.
?T:dir file tryit prog creatdir either
?F:!tryinst
: locate a BSD compatible install program
echo " "
echo "Looking for a BSD-compatible install program..." >&4
@if installdir
creatdir="
@end
case
 "$install" in
")
 tryit="
 for dir in $pth; do
  for file in ginstall installbsd scoinst install; do
   if $test -f $dir/$file; then
    tryit="$tryit $dir/$file"
   fi
  done
 done
 $cat >try.c <<EOC
int main()
{
 printf("OK\n");
 exit(0);
}
EOC
 if $cc -o try try.c >/dev/null 2>&1; then
  cp try try.ns
  strip try >/dev/null 2>&1
 else
```

```
  echo "(I can't seem to compile a trivial C program -- bypassing.)"
  echo "try" >try
  cp try try.ns
 fi
 $cat >tryinst <<EOS
$startsh
$rm -rf foo d
@if installdir
\$1 -d foo/bar
@end
$mkdir d
\$1 -c -m 764 try.ns d
\$1 -c -s -m 642 try.ns d/try
EOS
 chmod +x tryinst
 $eunicefix tryinst
 dflt=''
 either=''
 for prog in $tryit; do
  $echo $n "Checking $prog... $c"
  ./tryinst $prog >/dev/null 2>&1
@if installdir
  if $test -d foo/bar; then
   creatdir="$prog -d"
  fi
@end
  (ls -l d/try >try.ls; ls -l d/try.ns >tryno.ls) 2>/dev/null
  if (cmp -s d/try try && cmp -s d/try.ns try.ns && \
   $contains 'rwxrw-r--' tryno.ls &&
 \
   $contains 'rw-r---w-' try.ls) >/dev/null 2>&1
  then
   dflt="$prog"
   echo "ok, that will do."
   break
  fi
  echo "not good$either."
  either=' either'
  $rm -f try*.ls
 done
 $rm -rf foo d tryinst try try*.ls try.*
 case "$dflt" in
 '')
@if {test -f ../install.SH}
  echo "Hopefully, $package comes with its own install script!"
  dflt='./install'
@else
  dflt='install'
```

```
@end
  ;;
 esac
 ;;
*) dflt="$install";;
esac
$cat <<EOM

I will be requiring a BSD-compatible install program (one that allows
options like -s to strip executables or -m to specify a file mode) to
install $package.

If the question below contains a fully qualified default path, then it
is probably ok. If it is an unqualified name such as 'install', then it
means I was unable to find out a good install program I could use. If
@if {test -f ../install.SH}
you know of one, please tell me about it. If the default is './install',
then I shall be using the install script supplied with $package.
@else
you know of one,
 please tell me about it.
@end

EOM
@if {test -f ../install.SH}
fn='/fe~(install,./install)'
@else
fn='/fe~(install)'
@end
rp='Which install program shall I use?'
. ./getfile
install="$ans"

@if installdir
: how can we create nested directories?
echo " "
echo "Ok, let's see how we can create nested directories..." >&4
case "$installdir" in
")
?X: First time, maybe we already found out a working one in $creatdir above...
?X: Prefer "mkdir -p" because of bugs in GNU install when not running as root
 $mkdir -p foo/bar >/dev/null 2>&1
 if $test -d foo/bar; then
  echo "Great, we can build them using 'mkdir -p'."
  creatdir='mkdir -p'
 else
  case "$creatdir" in
  ")
```

```
   if eval "$install -d foo/bar"; $test -d foo/bar; then
    creatdir="install -d"
    echo "It looks like '$creatdir' will do it for us."
   fi
   ;;
  *)
   eval "$creatdir foo/bar" >/dev/null 2>&1
   if $test -d foo/bar; then
    echo "Ah! We can use '$creatdir' to do just that."
   else
    creatdir=''
   fi
   ;;
  esac
 fi
 $rm
 -rf foo
 case "$creatdir" in
 '')
  echo "Heck! Another ancient system lacking the comfort of modern ones!"
@if {test -f ../install.SH}
  echo "You can thank $package for bringing you its own install script!"
  installdir='./install -d'
@else
  echo "We have no choice but to use plain old 'mkdir' -- wish me luck!"
  installdir=mkdir
@end
  ;;
 *) installdir="$creatdir";;
 esac
 ;;
*) echo "As you already told me, '$installdir' should work.";;
esac

@end
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/install.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_killpg.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_killpg.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_killpg: Inlibc
?MAKE: -pick add $@ %<
?S:d_killpg:
?S: This variable conditionally defines the HAS_KILLPG symbol, which
?S: indicates to the C program that the killpg() routine is available
?S: to kill process groups.
?S:.
?C:HAS_KILLPG (KILLPG):
?C: This symbol, if defined, indicates that the killpg routine is available
?C: to kill
 process groups.  If unavailable, you probably should use kill
?C: with a negative process number.
?C:.
?H:#$d_killpg HAS_KILLPG /**/
?H:.
?LINT:set d_killpg
: see if killpg exists
set killpg d_killpg
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_killpg.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: lib.U,v 3.0.1.3 1995/09/25 09:16:47 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: lib.U,v $
?RCS: Revision 3.0.1.3  1995/09/25  09:16:47  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:38:08  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
```

```
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:27:40  ram
?RCS: patch32: now uses installation prefix to set the default
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?LINT:
 empty
?X:?MAKE:lib libexp: Getfile Loc Oldconfig Prefixit Prefixup prefixexp
?X:?MAKE: -pick add $@ %<
?X:?Y:TOP
?X:?S:lib:
?X:?S: This variable holds the name of the directory in which the user wants
?X:?S: to put public library files for the package in question.  It is most
?X:?S: often a local directory such as /usr/local/lib. Programs using this
?X:?S: variable must be prepared to deal with filename expansion.
?X:?S:.
?X:?S:libexp:
?X:?S: This variable is the same as the lib variable, but is filename expanded
?X:?S: at configuration time, for convenient use in your makefiles.
?X:?S:.
?X:: determine where public libraries go
?X:set lib lib
?X:eval $prefixit
?X:case "$lib" in
?X:")
?X: dflt=`./loc . "." $prefixexp/lib /usr/local/lib /usr/lib /lib`
?X: set dflt
?X: eval $prefixup
?X: ;;
?X:*)  dflt="$lib";;
?X:esac
?X:echo " "
?X:fn=d~
?X:rp='Where do you want to put the public libraries?'
?X:. ./getfile
?X:lib="$ans"
?X:libexp="$ansexp"
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/nullified/lib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_grp.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:20  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_grp: Inhdr
?MAKE: -pick add $@ %<
?S:i_grp:
?S: This variable conditionally defines the I_GRP symbol, and indicates
?S: whether a C program should include <grp.h>.
?S:.
?C:I_GRP:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <grp.h>.
?C:.
?H:#$i_grp I_GRP  /**/
?H:.
?LINT:set i_grp
: see if this is an grp system
set grp.h i_grp
eval $inhdr
```

Found
 in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_grp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_execinfo.U 34 2010-11-27 11:55:39Z rmanfredi $
?RCS:
?RCS: Copyright (c) 2011, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:i_execinfo: Inhdr
?MAKE: -pick add $@ %<
?S:i_execinfo:
?S: This variable conditionally defines the I_EXECINFO symbol, and indicates
```

```
?S: whether a C program may include <execinfo.h>, for backtrace() support.
?S:.
?C:I_EXECINFO:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <execinfo.h> for backtrace() support.
?C:.
?H:#$i_execinfo I_EXECINFO  /**/
?H:.
?LINT:set i_execinfo
: see if this is an execinfo.h system
set execinfo.h i_execinfo
eval
 $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_execinfo.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_waitpid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_waitpid.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_waitpid: Inlibc
?MAKE: -pick add $@ %<
?S:d_waitpid:
?S: This variable conditionally defines HAS_WAITPID if waitpid() is
?S: available to wait for child process.
?S:.
?C:HAS_WAITPID (WAITPID):
?C: This symbol, if defined, indicates that the waitpid routine is
?C: available to wait for child process.
?C:.
?H:#$d_waitpid HAS_WAITPID /**/
?H:.
?LINT:set
 d_waitpid
: see if waitpid exists
```

```
set waitpid d_waitpid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_waitpid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_sanemcmp.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:41:19  ram
?RCS: patch61: created
?RCS:
?RCS:
?MAKE:d_sanemcmp: cat d_memcmp +cc +optimize +ccflags +libs +ldflags rm \
 i_memory i_stdlib i_string i_unistd Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_sanemcmp:
?S: This variable conditionally defines the HAS_SANE_MEMCMP symbol if
?S: the memcpy() routine is available and can be used to compare relative
?S: magnitudes of chars with their high bits set.
?S:.
?C:HAS_SANE_MEMCMP:
?C: This symbol,
 if defined, indicates that the memcmp routine is available
?C: and can be used to compare relative magnitudes of chars with their high
?C: bits set.  If it is not defined, roll your own version.
?C:.
?H:#$d_sanemcmp HAS_SANE_MEMCMP /**/
?H:.
?F:!sanemcmp
?LINT: set d_sanemcmp
: can memcmp be trusted to compare relative magnitude?
?X: assume the worst
val="$undef"
case "$d_memcmp" in
"$define")
 echo " "
 echo \
```

```
   "Checking to see if your memcmp() can compare relative magnitude..." >&4
 $cat >foo.c <<EOCP
#$i_memory I_MEMORY
#$i_stdlib I_STDLIB
#$i_string I_STRING
#$i_unistd I_UNISTD
EOCP
 $cat >>foo.c <<'EOCP'
#include <stdio.h>
#ifdef I_MEMORY
#  include <memory.h>
#endif
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#ifdef I_STRING
#  include <string.h>
#else
#  include <strings.h>
#endif
#ifdef I_UNISTD
#  include <unistd.h>  /* Needed for NetBSD */
#endif
int main()
{
char a = -1;
char b = 0;
if ((a < b) && memcmp(&a, &b, 1) < 0)
 exit(1);
exit(0);
}
EOCP
 if $cc $optimize $ccflags
 $ldflags \
      -o sanemcmp foo.c $libs >/dev/null 2>&1; then
  if ./sanemcmp 2>/dev/null; then
   echo "Yes, it can."
   val="$define"
  else
   echo "No, it can't (it uses signed chars)."
  fi
 else
  echo "(I can't compile the test program, so we'll assume not...)"
 fi
 ;;
esac
$rm -f foo.* sanemcmp core
set d_sanemcmp
```

```
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sanemcmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isfinitel: Inlibc
?MAKE: -pick add $@ %<
?S:d_isfinitel:
?S: This variable conditionally defines the HAS_ISFINITEL symbol, which
?S: indicates to the C program that the isfinitel() routine is available.
?S:.
?C:HAS_ISFINITEL:
?C: This symbol, if defined, indicates that the isfinitel routine is
?C: available to check whether a long double is finite.
?C: (non-infinity non-NaN).
?C:.
?H:#$d_isfinitel HAS_ISFINITEL  /**/
?H:.
?LINT:set d_isfinitel
: see if isfinitel exists
set isfinitel d_isfinitel
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_isfinitel.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_shmat.U,v $
```

```
?RCS: Revision 3.0.1.3  1995/07/25  14:04:23  ram
?RCS: patch56: use findhdr to find <sys/shm.h>, to get the right one (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:18:56  ram
?RCS: patch27: added new symbol HAS_SHMAT_PROTOTYPE (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:54:18  ram
?RCS: patch23: new Shmat_t symbol to declare return type of shmat()
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:18  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_shmat shmattype
 d_shmatprototype: Inlibc cat +cc +ccflags \
 rm cppstdin cppflags cppminus Findhdr Setvar contains
?MAKE: -pick add $@ %<
?S:d_shmat:
?S: This variable conditionally defines the HAS_SHMAT symbol, which
?S: indicates to the C program that the shmat() routine is available.
?S:.
?S:shmattype:
?S: This symbol contains the type of pointer returned by shmat().
?S: It can be 'void *' or 'char *'.
?S:.
?S:d_shmatprototype:
?S: This variable conditionally defines the HAS_SHMAT_PROTOTYPE
?S: symbol, which indicates that sys/shm.h has a prototype for
?S: shmat.
?S:.
?C:HAS_SHMAT:
?C: This symbol, if defined, indicates that the shmat() routine is
?C: available to attach a shared memory segment to the process space.
?C:.
?C:Shmat_t:
?C: This symbol holds the return type of the shmat() system call.
?C: Usually set to 'void *' or 'char *'.
?C:.
?C:HAS_SHMAT_PROTOTYPE:
?C: This symbol, if defined, indicates that the sys/shm.h includes
?C: a prototype for shmat().  Otherwise, it is up to the program
 to
?C: guess one.  Shmat_t shmat _((int, Shmat_t, int)) is a good guess,
?C: but not always right so it should be emitted by the program only
?C: when HAS_SHMAT_PROTOTYPE is not defined to avoid conflicting defs.
?C:.
?H:#$d_shmat HAS_SHMAT  /**/
?H:#define Shmat_t $shmattype /**/
?H:#$d_shmatprototype HAS_SHMAT_PROTOTYPE /**/
```

```
?H:.
?LINT:set d_shmat d_shmatprototype
?T:xxx
: see if shmat exists
set shmat d_shmat
eval $inlibc
: see what shmat returns
case "$d_shmat" in
"$define")
 $cat >shmat.c <<'END'
#include <sys/shm.h>
void *shmat();
END
 if $cc $ccflags -c shmat.c >/dev/null 2>&1; then
  shmattype='void *'
 else
  shmattype='char *'
 fi
 echo "and it returns ($shmattype)." >&4
 : see if a prototype for shmat is available
 xxx=`./findhdr sys/shm.h`
 $cppstdin $cppflags $cppminus < $xxx > shmat.c 2>/dev/null
 if $contains 'shmat.*(' shmat.c >/dev/null 2>&1; then
  val="$define"
 else
  val="$undef"
 fi
 $rm -f shmat.[co]
 ;;
*)
 val="$undef"
 ;;
esac
set d_shmatprototype
eval $setvar
```

Found
 in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_shmat.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: floatsize.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:17:09  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:floatsize: cat rm Myread +cc +ccflags
?MAKE: -pick add $@ %<
?S:floatsize:
?S: This variable contains the value of the FLOATSIZE symbol, which
?S: indicates to the C program how many bytes there are in a float.
?S:.
?C:FLOATSIZE:
?C: This symbol contains the size of
 a float, so that the C preprocessor
?C: can make decisions based on it.
?C:.
?H:#define FLOATSIZE $floatsize  /**/
?H:.
?F:!try
: check for length of float
echo " "
case "$floatsize" in
")
 echo "Checking to see how big your floating point numbers are..." >&4
 $cat >try.c <<'EOCP'
#include <stdio.h>
int main()
{
 printf("%d\n", sizeof(float));
}
EOCP
 if $cc $ccflags -o try try.c >/dev/null 2>&1 ; then
  dflt=`./try`
 else
  dflt='4'
  echo "(I can't seem to compile the test program.  Guessing...)"
 fi
 ;;
*)
 dflt="$floatsize"
 ;;
esac
```

```
rp="What is the size of a floating point number (in bytes)?"
. ./myread
floatsize="$ans"
$rm -f try.c try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/floatsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: ipc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: ipc.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:53  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:ipc serve_shm serve_msg serve_inet_udp serve_inet_tcp serve_unix_udp \
 serve_unix_tcp: test Myread Oldconfig d_socket d_msg d_shm d_sem
?MAKE: -pick add $@ %<
?LINT:use d_msg d_sem
?S:ipc:
?S: This variable holds the type of IPC service we'll be using.  Values
?S: include "ip", "shm", "msg", "cms" and "os9".  We don't worry about
?S: cms or os9
 here, because Configure doesn't run in those places--HMS.
?S:.
?S:serve_shm:
?S: This variable controls the definition of SERVE_SHM, which tells the
?S: C program to use USG shared memory for IPC.
?S:.
?S:serve_msg:
?S: This variable controls the definition of SERVE_MSG, which tells the
?S: C program to use USG message queues for IPC.
?S:.
?S:serve_inet_udp:
?S: This variable controls the definition of SERVE_INET_UDP, which tells
?S: the C program to enable InterNet-domain UDP support for IPC.
?S:.
?S:serve_inet_tcp:
?S: This variable controls the definition of SERVE_INET_TCP, which tells
```

```
?S: the C program to enable InterNet-domain TCP support for IPC.
?S:.
?S:serve_unix_udp:
?S: This variable controls the definition of SERVE_UNIX_UDP, which tells
?S: the C program to enable Unix-domain UDP support for IPC.
?S:.
?S:serve_unix_tcp:
?S: This variable controls the definition of SERVE_UNIX_TCP, which tells
?S: the C program to enable Unix-domain TCP support for IPC.
?S:.
?C:SERVE_SHM:
?C: If
 defined, tells the C program to use USG shared memory for IPC.
?C:.
?C:SERVE_MSG:
?C: If defined, tells the C program to use USG message queues for IPC.
?C:.
?C:SERVE_INET_UDP:
?C: If defined, tells the C program to enable InterNet-domain UDP
?C: support for IPC.
?C:.
?C:SERVE_INET_TCP:
?C: If defined, tells the C program to enable InterNet-domain TCP
?C: support for IPC.
?C:.
?C:SERVE_UNIX_UDP:
?C: If defined, tells the C program to enable Unix-domain UDP
?C: support for IPC.
?C:.
?C:SERVE_UNIX_TCP:
?C: If defined, tells the C program to enable Unix-domain TCP
?C: support for IPC.
?C:.
?H:#$serve_shm SERVE_SHM /**/
?H:#$serve_msg SERVE_MSG /**/
?H:#$serve_inet_udp SERVE_INET_UDP /**/
?H:#$serve_inet_tcp SERVE_INET_TCP /**/
?H:#$serve_unix_udp SERVE_UNIX_UDP /**/
?H:#$serve_unix_tcp SERVE_UNIX_TCP /**/
?H:.
?X: FIXME -- RAM
?INIT:serve_shm="
?INIT:serve_msg="$undef"
?INIT:serve_inet_udp="
?INIT:serve_inet_tcp="
?INIT:serve_unix_udp="
?INIT:serve_unix_tcp="
: get IPC mechanism
```

```
echo
 " "
ipc=''
while $test -z "$ipc"
do
 if $test "$ipc" != "shm" -a "$d_socket" = "$define"; then
  ipc=''
  if $test "$serve_inet_udp" = "$undef"; then
   dflt=n
  else
   dflt=y
  fi
  rp='Provide InterNet-domain UDP service?'
  . ./myread
  dflt=''
  case "$ans" in
  n*) serve_inet_udp="$undef";;
  *)
   serve_inet_udp="$define"
   ipc='ip'
   ;;
  esac

  if $test "$serve_inet_tcp" = "$define"; then
   dflt=y
  else
   dflt=n
  fi
  rp='Provide InterNet-domain TCP service?'
  . ./myread
  dflt=''
  case "$ans" in
  n*) serve_inet_tcp="$undef";;
  *)
   serve_inet_tcp="$define"
   ipc='ip'
   ;;
  esac

  if $test "$serve_unix_udp" = "$define"; then
   dflt=y
  else
   dflt=n
  fi
  rp='Provide Unix-domain UDP service?'
  . ./myread
  dflt=''
  case "$ans" in
```

```
 n*) serve_unix_udp="$undef";;
 *)
  serve_unix_udp="$define"
  ipc='ip'
  ;;
 esac

 if $test "$serve_unix_tcp" = "$define"; then
  dflt=y
 else
  dflt=n
 fi
 rp='Provide Unix-domain TCP service?'
 . ./myread
 dflt=''
 case
"$ans" in
 n*) serve_unix_tcp="$undef";;
 *)
  serve_unix_tcp="$define"
  ipc='ip'
  ;;
 esac
else
 serve_inet_udp="$undef"
 serve_inet_tcp="$undef"
 serve_unix_udp="$undef"
 serve_unix_tcp="$undef"
fi
if $test "$ipc" != "ip" -a "$d_shm" = "$define"; then
 echo "Providing USG shared memory IPC support." >&4
 serve_shm="$define"
 ipc='shm'
else
 serve_shm="$undef"
fi
if $test -z "$ipc"; then
 echo "You must select an IPC mechanism." >&4
fi
done
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/ipc.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: perlxv.U,v 1.1 2000/08/31 17:53:56 jhi Exp jhi $
?RCS:

```
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:ivtype uvtype nvtype ivsize uvsize nvsize \
    i8type u8type i16type u16type i32type u32type i64type u64type \
    i8size u8size i16size u16size i32size u32size i64size u64size \
    d_nv_preserves_uv nv_preserves_uv_bits nv_overflows_integers_at \
    d_nv_zero_is_allbits_zero: \
 echo rm_try use64bitint d_quad quadtype uquadtype usequadmath \
 d_longdbl uselongdouble longdblsize doublesize i_quadmath \
 shortsize intsize longsize i_stdlib libs gccversion \
 cat Compile i_inttypes test signal_t run
?MAKE: -pick add $@ %<
?S:ivtype:
?S: This variable contains the C type used for Perl's IV.
?S:.
?S:uvtype:
?S: This variable contains the C type
 used for Perl's UV.
?S:.
?S:nvtype:
?S: This variable contains the C type used for Perl's NV.
?S:.
?S:i8type:
?S: This variable contains the C type used for Perl's I8.
?S:.
?S:u8type:
?S: This variable contains the C type used for Perl's U8.
?S:.
?S:i16type:
?S: This variable contains the C type used for Perl's I16.
?S:.
?S:u16type:
?S: This variable contains the C type used for Perl's U16.
?S:.
?S:i32type:
?S: This variable contains the C type used for Perl's I32.
?S:.
?S:u32type:
?S: This variable contains the C type used for Perl's U32.
?S:.
?S:i64type:
?S: This variable contains the C type used for Perl's I64.
?S:.
?S:u64type:
?S: This variable contains the C type used for Perl's U64.
```

?S:.
?S:ivsize:
?S: This variable is the size of an IV in bytes.
?S:.
?S:uvsize:
?S: This variable is the size of a UV in bytes.
?S:.
?S:i8size:
?S: This variable is the size of an I8 in bytes.
?S:.
?S:u8size:
?S: This variable is the size of an U8 in bytes.
?S:.
?S:i16size:
?S: This variable is the
size of an I16 in bytes.
?S:.
?S:u16size:
?S: This variable is the size of an U16 in bytes.
?S:.
?S:i32size:
?S: This variable is the size of an I32 in bytes.
?S:.
?S:u32size:
?S: This variable is the size of an U32 in bytes.
?S:.
?S:i64size:
?S: This variable is the size of an I64 in bytes.
?S:.
?S:u64size:
?S: This variable is the size of an U64 in bytes.
?S:.
?S:nvsize:
?S: This variable is the size of a Perl NV in bytes.
?S: Note that some floating point formats have unused bytes.
?S:.
?S:d_nv_preserves_uv:
?S: This variable indicates whether a variable of type nvtype
?S: can preserve all the bits a variable of type uvtype.
?S:.
?S:nv_preserves_uv_bits:
?S: This variable indicates how many of bits type uvtype
?S: a variable nvtype can preserve.
?S:.
?S:nv_overflows_integers_at:
?S: This variable gives the largest integer value that NVs can hold
?S: as a constant floating point expression.
?S: If it could not be determined, it holds the value 0.

```
?S:.
?S:d_nv_zero_is_allbits_zero:
?S: This
 variable indicates whether a variable of type nvtype
?S: stores 0.0 in memory as all bits zero.
?S:.
?C:IVTYPE:
?C: This symbol defines the C type used for Perl's IV.
?C:.
?C:UVTYPE:
?C: This symbol defines the C type used for Perl's UV.
?C:.
?C:I8TYPE:
?C: This symbol defines the C type used for Perl's I8.
?C:.
?C:U8TYPE:
?C: This symbol defines the C type used for Perl's U8.
?C:.
?C:I16TYPE:
?C: This symbol defines the C type used for Perl's I16.
?C:.
?C:U16TYPE:
?C: This symbol defines the C type used for Perl's U16.
?C:.
?C:I32TYPE:
?C: This symbol defines the C type used for Perl's I32.
?C:.
?C:U32TYPE:
?C: This symbol defines the C type used for Perl's U32.
?C:.
?C:I64TYPE:
?C: This symbol defines the C type used for Perl's I64.
?C:.
?C:U64TYPE:
?C: This symbol defines the C type used for Perl's U64.
?C:.
?C:NVTYPE:
?C: This symbol defines the C type used for Perl's NV.
?C:.
?C:IVSIZE:
?C: This symbol contains the sizeof(IV).
?C:.
?C:UVSIZE:
?C: This symbol contains the
 sizeof(UV).
?C:.
?C:I8SIZE:
?C: This symbol contains the sizeof(I8).
```

```
?C:.
?C:U8SIZE:
?C: This symbol contains the sizeof(U8).
?C:.
?C:I16SIZE:
?C: This symbol contains the sizeof(I16).
?C:.
?C:U16SIZE:
?C: This symbol contains the sizeof(U16).
?C:.
?C:I32SIZE:
?C: This symbol contains the sizeof(I32).
?C:.
?C:U32SIZE:
?C: This symbol contains the sizeof(U32).
?C:.
?C:I64SIZE:
?C: This symbol contains the sizeof(I64).
?C:.
?C:U64SIZE:
?C: This symbol contains the sizeof(U64).
?C:.
?C:NVSIZE:
?C: This symbol contains the sizeof(NV).
?C: Note that some floating point formats have unused bytes.
?C: The most notable example is the x86* 80-bit extended precision
?C: which comes in byte sizes of 12 and 16 (for 32 and 64 bit
?C: platforms, respectively), but which only uses 10 bytes.
?C: Perl compiled with -Duselongdouble on x86* is like this.
?C:.
?C:NV_PRESERVES_UV:
?C: This symbol, if defined, indicates that a variable of type NVTYPE
?C: can preserve all the bits of a variable of type UVTYPE.
?C:.
?C:NV_PRESERVES_UV_BITS:
?C: This
 symbol contains the number of bits a variable of type NVTYPE
?C: can preserve of a variable of type UVTYPE.
?C:.
?C:NV_OVERFLOWS_INTEGERS_AT:
?C: This symbol gives the largest integer value that NVs can hold. This
?C: value + 1.0 cannot be stored accurately. It is expressed as constant
?C: floating point expression to reduce the chance of decimal/binary
?C: conversion issues. If it can not be determined, the value 0 is given.
?C:.
?C:NV_ZERO_IS_ALLBITS_ZERO:
?C: This symbol, if defined, indicates that a variable of type NVTYPE
?C: stores 0.0 in memory as all bits zero.
```

```
?C:.
?H:#define IVTYPE  $ivtype  /**/
?H:#define UVTYPE  $uvtype  /**/
?H:#define I8TYPE  $i8type  /**/
?H:#define U8TYPE  $u8type  /**/
?H:#define I16TYPE  $i16type /**/
?H:#define U16TYPE  $u16type /**/
?H:#define I32TYPE  $i32type /**/
?H:#define U32TYPE  $u32type /**/
?H:?%<:#ifdef HAS_QUAD
?H:?%<:#define I64TYPE  $i64type /**/
?H:?%<:#define U64TYPE  $u64type /**/
?H:?%<:#endif
?H:#define NVTYPE  $nvtype  /**/
?H:#define IVSIZE  $ivsize  /**/
?H:#define UVSIZE  $uvsize  /**/
?H:#define I8SIZE  $i8size  /**/
?H:#define U8SIZE  $u8size  /**/
?H:#define I16SIZE  $i16size /**/
?H:#define U16SIZE  $u16size /**/
?H:#define I32SIZE  $i32size /**/
?H:#define U32SIZE  $u32size /**/
?H:?%<:#ifdef
 HAS_QUAD
?H:?%<:#define I64SIZE  $i64size /**/
?H:?%<:#define U64SIZE  $u64size /**/
?H:?%<:#endif
?H:#define NVSIZE  $nvsize  /**/
?H:#$d_nv_preserves_uv NV_PRESERVES_UV
?H:#define NV_PRESERVES_UV_BITS $nv_preserves_uv_bits
?H:#define NV_OVERFLOWS_INTEGERS_AT ($nv_overflows_integers_at)
?H:#$d_nv_zero_is_allbits_zero NV_ZERO_IS_ALLBITS_ZERO
?H:?%<:#if UVSIZE == 8
?H:?%<:#   ifdef BYTEORDER
?H:?%<:#       if BYTEORDER == 0x1234
?H:?%<:#           undef BYTEORDER
?H:?%<:#           define BYTEORDER 0x12345678
?H:?%<:#       else
?H:?%<:#           if BYTEORDER == 0x4321
?H:?%<:#               undef BYTEORDER
?H:?%<:#               define BYTEORDER 0x87654321
?H:?%<:#
    endif
?H:?%<:#       endif
?H:?%<:#   endif
?H:?%<:#endif
?H:.
?T:xxx
```

```
?T:d
?F:!try
: Check basic sizes
echo " "
$echo "Choosing the C types to be used for Perl's internal types..." >&4

case "$use64bitint:$d_quad:$quadtype" in
define:define:?*)
 ivtype="$quadtype"
 uvtype="$uquadtype"
 ivsize=8
 uvsize=8
 ;;
*) ivtype="long"
 uvtype="unsigned long"
 ivsize=$longsize
 uvsize=$longsize
 ;;
esac

case "$uselongdouble:$d_longdbl" in
define:define)
 nvtype="long double"
 nvsize=$longdblsize
 ;;
*) nvtype=double
 nvsize=$doublesize
 ;;
esac

case "$usequadmath:$i_quadmath" in
define:define)
 nvtype="__float128"
 nvsize=16
 case "$libs" in
 *quadmath*) ;;
 *) $cat <<EOM >&4

*** You requested the use of the quadmath library, but you
*** do not seem to have the quadmath library installed.
*** Cannot continue, aborting.
EOM
   exit 1
   ;;
 esac
 ;;
define:*) $cat <<EOM >&4
```

```
*** You requested the use of the quadmath library, but you
*** do not seem to have the required header, <quadmath.h>.
EOM
  case "$gccversion" in
 [23].*|4.[0-5]*)
  $cat <<EOM >&4
*** Your gcc looks a bit old:
*** $gccversion
EOM
   ;;
 ")
  $cat <<EOM >&4
*** You are not running a gcc.
EOM
   ;;
 esac
 $cat <<EOM >&4
*** For the quadmath library you need at least gcc 4.6.
*** Cannot continue, aborting.
EOM
 exit 1
 ;;
esac

$echo "(IV will be "$ivtype", $ivsize bytes)"
$echo "(UV will be "$uvtype", $uvsize bytes)"
$echo "(NV will be "$nvtype", $nvsize bytes)"

$cat >try.c <<EOCP
#$i_inttypes I_INTTYPES
#ifdef I_INTTYPES
#include <inttypes.h>
#endif
#include <stdio.h>
int main() {
#ifdef INT8
  int8_t i =  INT8_MAX;
 uint8_t u = UINT8_MAX;
 printf("int8_t\n");
#endif
#ifdef INT16
  int16_t i =  INT16_MAX;
 uint16_t u = UINT16_MAX;
 printf("int16_t\n");
#endif
#ifdef INT32
  int32_t i =  INT32_MAX;
 uint32_t u = UINT32_MAX;
```

```
 printf("int32_t\n");
#endif
}
EOCP

i8type="signed char"
u8type="unsigned char"
i8size=1
u8size=1

case "$i16type" in
") case "$shortsize" in
 2) i16type=short
  u16type="unsigned
 short"
  i16size=$shortsize
  u16size=$shortsize
  ;;
 esac
 ;;
esac
case "$i16type" in
") set try -DINT16
 if eval $compile; then
  case "`$run ./try`" in
  int16_t)
   i16type=int16_t
   u16type=uint16_t
   i16size=2
   u16size=2
   ;;
  esac
 fi
 ;;
esac
case "$i16type" in
") if $test $shortsize -ge 2; then
  i16type=short
  u16type="unsigned short"
  i16size=$shortsize
  u16size=$shortsize
 fi
 ;;
esac

case "$i32type" in
") case "$longsize" in
 4) i32type=long
```

```
  u32type="unsigned long"
  i32size=$longsize
  u32size=$longsize
  ;;
 *) case "$intsize" in
  4) i32type=int
   u32type="unsigned int"
   i32size=$intsize
   u32size=$intsize
   ;;
  esac
  ;;
 esac
 ;;
esac
case "$i32type" in
") set try -DINT32
 if eval $compile; then
  case "`$run ./try`" in
  int32_t)
   i32type=int32_t
   u32type=uint32_t
   i32size=4
   u32size=4
   ;;
  esac
 fi
 ;;
esac
case "$i32type" in
") if $test $intsize -ge 4; then
  i32type=int
  u32type="unsigned int"
  i32size=$intsize
  u32size=$intsize
 fi
 ;;
esac

case
 "$i64type" in
") case "$d_quad:$quadtype" in
 define:?*)
  i64type="$quadtype"
  u64type="$uquadtype"
  i64size=8
  u64size=8
  ;;
```

```
 esac
 ;;
esac

$echo "Checking how many bits of your UVs your NVs can preserve..." >&4
$cat <<EOP >try.c
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <sys/types.h>
#include <signal.h>
#ifdef SIGFPE
/* volatile so that the compiler has to store it out to memory */
volatile int bletched = 0;
$signal_t blech(int s) { bletched = 1; }
#endif
int main() {
   $uvtype u = 0;
   $nvtype d;
   int     n = 8 * $uvsize;
   int     i;
#ifdef SIGFPE
   signal(SIGFPE, blech);
#endif

   for (i = 0; i < n; i++) {
     u = u << 1 | ($uvtype)1;
     d = ($nvtype)u;
     if (($uvtype)d != u)
       break;
     if (d <= 0)
 break;
     d = ($nvtype)(u - 1);
     if (($uvtype)d != (u - 1))
       break;
#ifdef SIGFPE
     if (bletched)
 break;
#endif
   }
   printf("%d\n",
 ((i == n) ? -n : i));
   exit(0);
}
EOP
set try
```

```
d_nv_preserves_uv="$undef"
if eval $compile; then
 nv_preserves_uv_bits="`$run ./try`"
fi
case "$nv_preserves_uv_bits" in
\-[1-9]*)
 nv_preserves_uv_bits=`expr 0 - $nv_preserves_uv_bits`
 $echo "Your NVs can preserve all $nv_preserves_uv_bits bits of your UVs."  2>&1
 d_nv_preserves_uv="$define"
 ;;
[1-9]*) $echo "Your NVs can preserve only $nv_preserves_uv_bits bits of your UVs."  2>&1
 d_nv_preserves_uv="$undef" ;;
*) $echo "Can't figure out how many bits your NVs preserve." 2>&1
 nv_preserves_uv_bits="0" ;;
esac
$rm_try

$echo "Checking to find the largest integer value your NVs can hold..." >&4
$cat <<EOP >try.c
#include <stdio.h>

typedef $nvtype NV;

int
main() {
 NV value = 2;
 int count = 1;

 while(count < 256) {
   /* volatile so that the compiler has to store it out to memory */
   volatile NV up = value + 1.0;
   volatile NV negated = -value;
   volatile NV down = negated - 1.0;
   volatile NV got_up = up
 - value;
   int up_good = got_up == 1.0;
   int got_down = down - negated;
   int down_good = got_down == -1.0;

   if (down_good != up_good) {
     fprintf(stderr,
       "Inconsistency - up %d %f; down %d %f; for 2**%d (%.20f)\n",
       up_good, (double) got_up, down_good, (double) got_down,
       count, (double) value);
     return 1;
   }
   if (!up_good) {
```

```
    while (1) {
 if (count > 8) {
   count -= 8;
   fputs("256.0", stdout);
 } else {
   count--;
   fputs("2.0", stdout);
 }
 if (!count) {
   puts("");
   return 0;
 }
 fputs("*", stdout);
    }
   }
   value *= 2;
   ++count;
 }
 fprintf(stderr, "Cannot overflow integer range, even at 2**%d (%.20f)\n",
   count, (double) value);
 return 1;
}
EOP
set try

nv_overflows_integers_at='0'
if eval $compile; then
   xxx="`$run ./try`"
   case "$?" in
 0)
    case "$xxx" in
  2*)  cat >&4 <<EOM
The largest integer your NVs can preserve is equal to $xxx
EOM
      nv_overflows_integers_at="$xxx"
      ;;
  *)  cat
 >&4 <<EOM
Cannot determine the largest integer value your NVs can hold, unexpected output
'$xxx'
EOM
      ;;
    esac
    ;;
 *)  cat >&4 <<EOM
Cannot determine the largest integer value your NVs can hold
EOM
    ;;
```

```
   esac
fi
$rm_try

$echo "Checking whether NV 0.0 is all bits zero in memory..." >&4
$cat <<EOP >try.c
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <string.h>
#include <sys/types.h>
#include <signal.h>
#ifdef SIGFPE
/* volatile so that the compiler has to store it out to memory */
volatile int bletched = 0;
$signal_t blech(int s) { bletched = 1; }
#endif

int checkit($nvtype d, const char *where) {
   void *v = &d;
   unsigned char *p = (unsigned char *)v;
   unsigned char *end = p + sizeof(d);
   int fail = 0;

   while (p < end)
 fail += *p++;

   if (!fail)
 return 0;

   p = (unsigned char *)v;
   printf("No - %s: 0x", where);
   while (p < end)
 printf ("%02X", *p++);
   printf("\n");
   return 1;
}

int
 main(int argc, char **argv) {
   $nvtype d = 0.0;
   int fail = 0;
   fail += checkit(d, "0.0");

   /* The compiler shouldn't be assuming that bletched is 0  */
   d = bletched;
```

```
   fail += checkit(d, "bleched");

#ifdef SIGFPE
   signal(SIGFPE, blech);
#endif

   /* Paranoia - the compiler should have no way of knowing that ANSI says
      that argv[argc] will always be NULL.  Actually, if it did assume this it
      would be buggy, as this is C and main() can be called from elsewhere in
      the program.  */
   d = argv[argc] ? 1 : 0;

   if (d) {
 printf("Odd argv[argc]=%p, d=%g\n", argv[argc], d);
   }

   fail += checkit(d, "ternary");

   memset(&d, sizeof(d), argv[argc] ? 1 : 0);

   if (d != 0.0) {
 printf("No - memset doesn't give 0.0\n");
 /* This might just blow up:  */
 printf("(gives %g)\n", d);
 return 1;
   }

#ifdef SIGFPE
   if (bletched) {
 printf("No - something bleched\n");
 return 1;
   }
#endif
   if (fail) {
     printf("No - %d fail(s)\n",
 fail);
     return 1;
   }
   printf("Yes\n");
   return 0;
}
EOP
set try

d_nv_zero_is_allbits_zero="$undef"
if eval $compile; then
   xxx="`$run ./try`"
```

```
  case "$?" in
 0)
    case "$xxx" in
  Yes)  cat >&4 <<EOM
0.0 is represented as all bits zero in memory
EOM
     d_nv_zero_is_allbits_zero="$define"
     ;;
  *)  cat >&4 <<EOM
0.0 is not represented as all bits zero in memory
EOM
     d_nv_zero_is_allbits_zero="$undef"
     ;;
    esac
    ;;
 *)  cat >&4 <<EOM
0.0 is not represented as all bits zero in memory
EOM
    d_nv_zero_is_allbits_zero="$undef"
    ;;
  esac
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/perlxv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: manfmt.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: manfmt.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  16:11:57  ram
?RCS: patch61: don't ask for AFS when they choose to not install pages
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:16:52  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:39:20  ram
?RCS: patch49: new installmanfmt and AFS-lookup for formatted man pages
```

```
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS:
 Revision 3.0.1.2  1994/08/29  16:30:31  ram
?RCS: patch32: now uses installation prefix for default setting
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:09:22  ram
?RCS: patch10: allows for L1 man page extension (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:manfmt manfmtexp installmanfmt: Getfile Loc Oldconfig cat manext \
 spackage Prefixit prefixexp Prefixup afs test
?MAKE: -pick add $@ %<
?Y:TOP
?S:manfmt:
?S: This variable contains the name of the directory in which formatted
?S: manual pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command. Note
?S: that you may have to do ~name substitution. Use manfmtexp otherwise.
?S:.
?S:manfmtexp:
?S: This is the same as the manfmt variable, but is filename expanded
?S: at configuration time, for programs not willing to deal with it at
?S: run-time.
?S:.
?S:installmanfmt:
?S: This variable is really
 the same as manfmtexp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: mansrcexp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change manext
?T:lookpath
: determine where manual pages go
set manfmt manfmt
eval $prefixit
$cat <<EOM

$spackage has pre-formatted manual pages.  If you don't want these installed,
answer 'none' to the next question.

EOM
case "$manfmt" in
")
 lookpath="$prefixexp/catman/man1 $prefixexp/man/cat1"
```

```
 lookpath="$lookpath $prefixexp/catman/u_man/man1"
 lookpath="$lookpath $prefixexp/catman/l_man/man1"
 lookpath="$lookpath $prefixexp/catman/cat1 /usr/catman/local/man1"
 lookpath="$lookpath /usr/catman/manl /usr/man/cat1"
 lookpath="$lookpath /usr/catman/mann /usr/catman/l_man/man1"
 lookpath="$lookpath /usr/catman/u_man/man1 /usr/catman/man1"
 dflt=`./loc . none $lookpath`
 set dflt
 eval $prefixup
 ;;
*)  dflt="$manfmt"
 ;;
esac
fn=dn~
rp='Where
 do pre-formatted manual pages go?'
. ./getfile
if test "X$manfmtexp" != "X$ansexp"; then
 installmanfmt=''
fi
manfmt="$ans"
manfmtexp="$ansexp"
if $afs && $test "$manfmt"; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
manual pages reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installmanfmt" in
 '') dflt=`echo $manfmtexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installmanfmt";;
 esac
 fn=de~
 rp='Where will pre-formatted man pages be installed?'
 . ./getfile
 installmanfmt="$ans"
else
 installmanfmt="$manfmtexp"
fi

case "$manfmt" in
'') manext='0';;
*l) manext=l;;
*n) manext=n;;
*o) manext=l;;
*p) manext=n;;
```

```
*C) manext=C;;
*L) manext=L;;
*L1) manext=L1;;
*) manext=1;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/manfmt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_ulimit.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_ulimit.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_ulimit: Inlibc
?MAKE: -pick add $@ %<
?S:d_ulimit:
?S: This variable conditionally defines HAS_ULIMIT if ulimit() is
?S: available to get the user limits.
?S:.
?C:HAS_ULIMIT (ULIMIT):
?C: This symbol, if defined, indicates that the ulimit system call is
?C: available to get the user limits.
?C:.
?H:#$d_ulimit HAS_ULIMIT  /**/
?H:.
?LINT:set
 d_ulimit
: see if ulimit exists
set ulimit d_ulimit
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_ulimit.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in order
?X: to make quick check on whether the current C compiler is working.
?X:
?MAKE:Checkcc ccname ccversion: Myread Warn startsh cat contains test
?MAKE: -pick add $@ %<
?S:ccname:
?S: This can set either by hints files or by Configure.  If using
?S: gcc, this is gcc, and if not, usually equal to cc, unimpressive, no?
?S: Some platforms, however, make good use of this by storing the
?S: flavor
 of the C compiler being used here.  For example if using
?S: the Sun WorkShop suite, ccname will be 'workshop'.
?S:.
?S:ccversion:
?S: This can set either by hints files or by Configure.  If using
?S: a (non-gcc) vendor cc, this variable may contain a version for
?S: the compiler.
?S:.
?F:./checkcc ./trygcc !checktmp
?V:despair
?T:trygcc
?LINT:extern cc rm ccflags ldflags
?LINT:change cc ccflags
?LINT:usefile checktmp
?INIT:ccname=''
?INIT:ccversion=''
: generate the trygcc script for later perusal
cat <<EOS >trygcc
$startsh
EOS
cat <<'EOSC' >>trygcc
case "$cc" in
'') ;;
*)  $rm -f try try.*
   $cat >try.c <<EOM
```

```
int main(int argc, char *argv[]) {
 (void) argc;
 (void) argv;
 return 0;
}
EOM
  if $cc -o try $ccflags $ldflags try.c; then
    :
  else
      echo "Uh-oh, the C compiler '$cc' doesn't seem to be working." >&4
      despair=yes
      trygcc=yes
      case "$cc" in
      *gcc*) trygcc=no ;;
      esac
      case "`$cc -v -c try.c 2>&1`" in

     *gcc*) trygcc=no ;;
      esac
      if $test X"$trygcc" = Xyes; then
         if gcc -o try -c try.c; then
            echo " "
            echo "You seem to have a working gcc, though." >&4
            rp="Would you like to use it?"
            dflt=y
            if $test -f myread; then
               . ./myread
            else
               if $test -f UU/myread; then
                  . ./UU/myread
               else
                  echo "Cannot find myread, sorry.  Aborting." >&2
                  exit 1
               fi
            fi
            case "$ans" in
            [yY]*) cc=gcc; ccname=gcc; ccflags=''; despair=no;
?X: Look whether we have 'call-back units' generated by hints that would
?X: seemingly affect the compiling environment.
                  $cat *.cbu >checktmp 2>/dev/null
                  if $contains ccflags checktmp >/dev/null; then

      ./warn <<EOM
Any previous setting of the C compiler flags has been lost.
It may be necessary to pass -Dcc=gcc to Configure right away.
EOM
                  fi;;
            esac
```

```
        fi
      fi
    fi
    $rm -f try try.*
    ;;
esac
EOSC

: generate the checkcc script for later perusal
cat <<EOS >checkcc
$startsh
EOS
cat <<'EOSC' >>checkcc
case "$cc" in
") ;;
*)  $rm -f try try.*
    $cat >try.c <<EOM
int main(int argc, char *argv[]) {
 (void) argc;
 (void) argv;
 return 0;
}
EOM
    if $cc -o try $ccflags $ldflags try.c; then
      :
    else
      if $test X"$despair" = Xyes; then
        echo "Uh-oh, the C compiler '$cc' doesn't seem to be working." >&4
      fi
      $cat >&4 <<EOM
You need to find a working C compiler.
Either (purchase and) install the C compiler supplied by your OS vendor,
or for a free C compiler try http://gcc.gnu.org/
I cannot continue any further, aborting.
EOM
      exit 1
    fi

 $rm -f try try.*
    ;;
esac
EOSC
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Checkcc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_gethbynm.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_gethbynm: Inlibc
?MAKE: -pick add $@ %<
?S:d_gethbynm (d_gethhstby):
?S: This variable conditionally defines the HAS_GETHOSTBYNAME symbol, which
?S: indicates to the C program that the gethostbyname() routine is available
?S: to lookup host names in some data base or other.
?S:.
?C:HAS_GETHOSTBYNAME (GETHOSTBYNAME):
?C: This symbol, if defined, indicates that the gethostbyname()
 routine is
?C: available to lookup host names in some data base or other.
?C:.
?H:#$d_gethbynm HAS_GETHOSTBYNAME  /**/
?H:.
?LINT:set d_gethbynm
: see if gethostbyname exists
set gethostbyname d_gethbynm
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_gethbynm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_shm.U,v 3.0 1993/08/18 12:07:17 ram Exp $
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
```

```
?RCS: $Log: d_shm.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_shm: test d_shmctl d_shmget d_shmat d_shmdt Setvar Findhdr osname
?MAKE: -pick add $@ %<
?S:d_shm:
?S: This variable conditionally defines the HAS_SHM symbol, which
?S: indicates that the entire shm*(2) library is present.
?S:.
?C:HAS_SHM:
?C: This symbol, if defined, indicates that the entire shm*(2) library is
?C: supported.
?C:.
?H:#$d_shm HAS_SHM  /**/
?H:.
?T:h_shm
?LINT:set
 d_shm
: see how much of the 'shm*(2)' library is present.
h_shm=true
echo " "
case "$d_shmctl$d_shmget$d_shmat$d_shmdt" in
*"$undef"*) h_shm=false;;
esac
case "$osname" in
freebsd)
   case "`ipcs 2>&1`" in
   "SVID shared memory"*"not configured"*)
 echo "Your $osname does not have the shm*(2) configured." >&4
       h_shm=false
 val="$undef"
 set shmctl d_shmctl
 eval $setvar
 set shmget d_shmget
 eval $setvar
 set shmat d_shmat
 eval $setvar
 set shmdt d_shmdt
 eval $setvar
 ;;
   esac
   ;;
esac
: we could also check for sys/ipc.h ...
if $h_shm && $test `./findhdr sys/shm.h`; then
 echo "You have the full shm*(2) library." >&4
 val="$define"
```

```
else
 echo "You don't have the full shm*(2) library." >&4
 val="$undef"
fi
set d_shm
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_shm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: nametype.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: nametype.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:26:09  ram
?RCS: patch36: call ./usg and ./bsd explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:36:48  ram
?RCS: patch32: fixed typo: /etc/password -> /etc/passwd (WED)
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:10:09  ram
?RCS: patch10: made questions more explicit for 'Configure -s' prompting (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:20  ram
?RCS: Baseline
 for dist 3.0 netwide release.
?RCS:
?MAKE:nametype d_passnames d_berknames d_usgnames: Myread Guess Oldconfig cat
?MAKE: -pick add $@ %<
?S:nametype:
?S: This variable indicates how full names are stored on this system.
?S: Values are bsd, usg, and other.
?S:.
?S:d_passnames:
?S: This variable conditionally defines the PASSNAMES symbol,
?S: which indicates to the C program that full names are stored in
?S: the /etc/passwd file.
?S:.
?S:d_berknames:
```

```
?S: This variable conditionally defines the PASSNAMES symbol,
?S: which indicates to the C program that full names are stored in
?S: the /etc/passwd file in Berkeley format.
?S:.
?S:d_usgnames:
?S: This variable conditionally defines the PASSNAMES symbol,
?S: which indicates to the C program that full names are stored in
?S: the /etc/passwd file in USG format.
?S:.
?C:PASSNAMES:
?C: This symbol, if defined, indicates that full names are stored in
?C: the /etc/passwd file.
?C:.
?C:BERKNAMES:
?C: This symbol, if defined, indicates that full
 names are stored in
?C: the /etc/passwd file in Berkeley format (name first thing, everything
?C: up to first comma, with & replaced by capitalized login id, yuck).
?C:.
?C:USGNAMES:
?C: This symbol, if defined, indicates that full names are stored in
?C: the /etc/passwd file in USG format (everything after - and before ( is
?C: the name).
?C:.
?H:#$d_passnames PASSNAMES /*  (undef to take name from ~/.fullname) */
?H:#$d_berknames BERKNAMES /* (that is, ":name,stuff:") */
?H:#$d_usgnames USGNAMES  /* (that is, ":stuff-name(stuff):") */
?H:.
: find out how to find out full name
case "$d_berknames" in
"$define")
 dflt=y;;
"$undef")
 dflt=n;;
*)
 if ./bsd; then
  dflt=y
 elif ./xenix; then
  dflt=y
 else
  dflt=n
 fi
 ;;
esac
$cat <<'EOM'

Does your /etc/passwd file keep full names in Berkeley/V7 format (name first
thing after ':' in GCOS field)?  In that case, a typical entry in the password
```

file looks like this:

```
   guest:**paswword**:10:100:Mister Guest User:/usr/users:/bin/sh

                         ^^^^^^^^^^^^^^^^^^
EOM
rp="Berkeley/V7 format for full name in /etc/passwd?"
. ./myread
case "$ans" in
y*) d_passnames="$define"
 d_berknames="$define"
 d_usgnames="$undef"
 nametype=bsd
 ;;
*)
 case "$d_usgnames" in
 "$define") dflt=y;;
 "$undef") dflt=n;;
 *)
  if ./usg; then
   dflt=y
  else
   dflt=n
  fi
  ;;
 esac
$cat <<'EOM'
```

Does your passwd file keep full names in USG format (name sandwiched between a '-' and a '(')? In that case, a typical entry in the password file looks like this:

```
   guest:**paswword**:10:100:000-Mister Guest User(000):/usr/users:/bin/sh
                         ^^^^^^^^^^^^^^^^^^
EOM
 rp="USG format for full name in /etc/passwd?"
 . ./myread
 case "$ans" in
 n*) echo "Full name will be taken from ~/.fullname"
  d_passnames="$undef"
  d_berknames="$undef"
  d_usgnames="$undef"
  nametype=other
  ;;
 *)
  d_passnames="$define"
  d_berknames="$undef"
  d_usgnames="$define"
```

```
  nametype=usg
  ;;
 esac;;
esac
```

Found in path(s):
*
/opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/nametype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getgrgid_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getgrgid_r getgrgid_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_grp extern_C
?MAKE: -pick add $@ %<
?S:d_getgrgid_r:
?S: This variable conditionally defines the HAS_GETGRGID_R symbol,
?S: which indicates to the C program that the getgrgid_r()
?S: routine is available.
?S:.
?S:getgrgid_r_proto:
?S: This variable encodes the prototype of getgrgid_r.
?S: It is zero if d_getgrgid_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getgrgid_r
?S: is defined.
?S:.
?C:HAS_GETGRGID_R:
?C: This symbol, if defined, indicates that the getgrgid_r routine
?C: is available to
 getgrgid re-entrantly.
?C:.
?C:GETGRGID_R_PROTO:
?C: This symbol encodes the prototype of getgrgid_r.
?C: It is zero if d_getgrgid_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getgrgid_r
?C: is defined.
?C:.
?H:#$d_getgrgid_r HAS_GETGRGID_R /**/
?H:#define GETGRGID_R_PROTO $getgrgid_r_proto /**/
?H:.
?T:try hdrs d_getgrgid_r_proto
```

```
: see if getgrgid_r exists
set getgrgid_r d_getgrgid_r
eval $inlibc
case "$d_getgrgid_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_grp grp.h"
 case "$d_getgrgid_r_proto:$usethreads" in
 ":define") d_getgrgid_r_proto=define
  set d_getgrgid_r_proto getgrgid_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getgrgid_r_proto" in
 define)
 case "$getgrgid_r_proto" in
 "|0) try='int getgrgid_r(gid_t, struct group*, char*, size_t, struct group**);'
 ./protochk "$extern_C $try" $hdrs && getgrgid_r_proto=I_TSBWR ;;
 esac
 case "$getgrgid_r_proto" in
 "|0) try='int getgrgid_r(gid_t, struct group*, char*, int, struct
 group**);'
 ./protochk "$extern_C $try" $hdrs && getgrgid_r_proto=I_TSBIR ;;
 esac
 case "$getgrgid_r_proto" in
 "|0) try='int getgrgid_r(gid_t, struct group*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getgrgid_r_proto=I_TSBI ;;
 esac
 case "$getgrgid_r_proto" in
 "|0) try='struct group* getgrgid_r(gid_t, struct group*, char*, int);'
 ./protochk "$extern_C $try" $hdrs && getgrgid_r_proto=S_TSBI ;;
 esac
 case "$getgrgid_r_proto" in
 "|0) d_getgrgid_r=undef
  getgrgid_r_proto=0
  echo "Disabling getgrgid_r, cannot determine prototype." >&4 ;;
 * ) case "$getgrgid_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getgrgid_r_proto="REENTRANT_PROTO_$getgrgid_r_proto" ;;
  esac
  echo "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getgrgid_r has no prototype, not using it." >&4 ;;
  esac
  d_getgrgid_r=undef
  getgrgid_r_proto=0
  ;;
```

```
 esac
 ;;
*) getgrgid_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getgrgid_r.U
No license file was found, but licenses were detected in source scan.

```
case $CONFIG in
")
 if test -f config.sh; then TOP=.;
 elif test -f ../config.sh; then TOP=..;
 elif test -f ../../config.sh; then TOP=../..;
 elif test -f ../../../config.sh; then TOP=../../..;
 elif test -f ../../../../config.sh; then TOP=../../../..;
 else
  echo "Can't find config.sh."; exit 1
 fi
 . $TOP/config.sh
 ;;
esac
case "$0" in
*/*) cd `expr X$0 : 'X\(.*\)/'` ;;
esac
echo "Extracting makedir (with variable substitutions)"
$spitshell >makedir <<!GROK!THIS!
$startsh
# $Id: makedir.sh,v 3.0.1.1 1994/01/24 14:00:08 ram Exp ram $
#
#  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
#
#  You may redistribute only under the terms of the Artistic Licence,
#  as specified in the README file that comes with the distribution.
#  You may reuse parts of this distribution only within the terms of
#  that same Artistic Licence; a copy of which may be found at the root
#  of the source tree for dist 4.0.
#
# Original
 Author: Larry Wall <lwall@netlabs.com>
#
# $Log: makedir.sh,v $
# Revision 3.0.1.1  1994/01/24  14:00:08  ram
# patch16: changed top ln-style config.sh lookup into test-style one
#
# Revision 3.0  1993/08/18  12:04:38  ram
```

```
# Baseline for dist 3.0 netwide release.
#

export PATH || (echo "OOPS, this isn't sh.  Desperation time.  I will feed myself to sh."; sh \$0; kill \$\$)

case \$# in
 0)
   $echo "makedir pathname filenameflag"
   exit 1
   ;;
esac

: guarantee one slash before 1st component
case \$1 in
 /*) ;;
 *)  set ./\$1 \$2 ;;
esac

: strip last component if it is to be a filename
case X\$2 in
 X1) set \`$echo \$1 | $sed 's:\(.*\)/[^/]*\$:\1:'\` ;;
 *)  set \$1 ;;
esac

: return reasonable status if nothing to be created
if $test -d "\$1" ; then
   exit 0
fi

list=''
while true ; do
   case \$1 in
   */*)
 list="\$1 \$list"
 set \`echo \$1 | $sed 's:\(.*\)/:\1 :'\`
 ;;
   *)
 break
 ;;
   esac
done

set \$list

for dir do
   $mkdir \$dir >/dev/null 2>&1
done
!GROK!THIS!
```

```
$eunicefix
 makedir
chmod +x makedir
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/makedir.SH
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?X:
?X: This unit allows the duplication of the source tree to the current
?X: directory via symbolic links.  This must be requested explicitly
?X: by them issuing a -Dmksymlinks on the command line.
?X:
?MAKE:Mksymlinks: Mkdirp lns issymlink src rsrc pkgsrc
?MAKE: -pick add $@ %<
?F:!UU
?T: dir filename tmppwd filelist
?LINT:extern mksymlinks
@if {test -f ../MANIFEST}
: Duplicate the tree with symbolic links if -Dmksymlinks was supplied
case "$mksymlinks"
 in
$define|true|[yY]*)
 echo " "
 case "$src" in
 "|'.') echo "Cannot create symlinks in the original directory." >&4
  exit 1
  ;;
 *) case "$lns:$issymlink" in
  *"ln"*" -s:"*"test -"?)
   echo "Creating the symbolic links..." >&4
   echo "(First creating the subdirectories...)" >&4
   cd ..
   awk '{print $1}' $src/MANIFEST | grep / | sed 's:/[^/]*$::' | \
    sort -u | while true
```

```
  do
   read dir
   test -z "$dir" && break
   ./UU/mkdirp $dir 2>/dev/null
   if test -d $dir; then
    : ok
   else
    echo "Failed to create '$dir'.  Aborting." >&4
    exit 1
   fi
  done
  echo "(Now creating the symlinks...)" >&4
  awk '{print $1}' $src/MANIFEST | while true; do
   read filename
   test -z "$filename" && break
   if test -f $filename; then
    if $issymlink $filename; then
     rm -f $filename
    fi
   fi
   if test -f $filename; then
    echo "$filename already exists, not symlinking."
   else
?X: Note that the following works because "$pkgsrc" is absolute
    ln
 -s $pkgsrc/$filename $filename
   fi
  done
?X: Check that everything was correctly copied
  echo "(Checking current directory...)" >&4
  cd UU
  awk '$1 !~ /PACK[A-Z]+/ {print $1}' "$rsrc/MANIFEST" | \
   (split -l 50 2>/dev/null || split -50)
  rm -f missing
  tmppwd=`pwd`
  for filelist in x??; do
   (cd ..; ls `cat "$tmppwd/$filelist"` \
    >/dev/null 2>>"$tmppwd/missing")
  done
  if test -s missing; then
   echo "Failed duplication of source tree.  Aborting." >&4
   exit 1
  fi
  ;;
 *) echo "(I cannot figure out how to do symbolic links, ignoring!)" >&4
  ;;
 esac
 ;;
```

```
 esac
 ;;
esac

@end
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Mksymlinks.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS:
?MAKE:i_stdint: Inhdr
?MAKE: -pick add $@ %<
?S:i_stdint:
?S: This variable conditionally defines the I_STDINT symbol, which
?S: indicates to the C program that <stdint.h> exists and should
?S: be included.
?S:.
?C:I_STDINT:
?C: This symbol, if defined, indicates that <stdint.h> exists and
?C: should be included.
?C:.
?H:#$i_stdint I_STDINT  /**/
?H:.
?LINT:set i_stdint
: see if stdint is available
set stdint.h i_stdint
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_stdint.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fchown.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_fchown.U,v $
```

```
?RCS: Revision 3.0  1993/08/18  12:06:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_fchown: Inlibc
?MAKE: -pick add $@ %<
?S:d_fchown:
?S: This variable conditionally defines the HAS_FCHOWN symbol, which
?S: indicates to the C program that the fchown() routine is available
?S: to change ownership of opened files.
?S:.
?C:HAS_FCHOWN (FCHOWN):
?C: This symbol, if defined, indicates that the fchown routine is available
?C: to
 change ownership of opened files.  If unavailable, use chown().
?C:.
?H:#$d_fchown HAS_FCHOWN  /**/
?H:.
?LINT:set d_fchown
: see if fchown exists
set fchown d_fchown
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_fchown.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_strctcpy.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:34  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_strctcpy: cat rm_try cc Setvar
?MAKE: -pick add $@ %<
?S:d_strctcpy:
?S: This variable conditionally defines the USE_STRUCT_COPY symbol, which
?S: indicates to the C program that this C compiler knows how to copy
?S: structures.
?S:.
```

```
?C:USE_STRUCT_COPY (STRUCTCOPY):
?C: This symbol, if defined, indicates that this C compiler knows how
?C: to copy structures.  If undefined, you'll
 need to use a block copy
?C: routine of some sort instead.
?C:.
?H:#$d_strctcpy USE_STRUCT_COPY /**/
?H:.
?LINT:set d_strctcpy
: check for structure copying
echo " "
echo "Checking to see if your C compiler can copy structs..." >&4
$cat >try.c <<'EOCP'
int main()
{
 struct blurfl {
  int dyick;
 } foo, bar;

 foo = bar;
}
EOCP
if $cc -c try.c >/dev/null 2>&1 ; then
 val="$define"
 echo "Yup, it can."
else
 val="$undef"
 echo "Nope, it can't."
fi
set d_strctcpy
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strctcpy.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: sysman.U,v $
?RCS: Revision 3.0.1.2  1994/06/20  07:08:43  ram
?RCS: patch30: now explicitly states that /usr/man/man1 is the default
?RCS: patch30: added /usr/local/man/man1 to the search list
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:13:50  ram
?RCS: patch10: added support for /local/man/man1 (WAD)
?RCS: patch10: added temporary syspath variable to cut down on line length
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:sysman: test
 Loc Oldconfig
?MAKE: -pick add $@ %<
?S:sysman:
?S: This variable holds the place where the manual is located on this
?S: system. It is not the place where the user wants to put his manual
?S: pages. Rather it is the place where Configure may look to find manual
?S: for unix commands (section 1 of the manual usually). See mansrc.
?S:.
?T:syspath
: determine where manual pages are on this system
echo " "
case "$sysman" in
")
 syspath='/usr/share/man/man1 /usr/man/man1'
 syspath="$syspath /usr/man/mann /usr/man/manl /usr/man/local/man1"
 syspath="$syspath /usr/man/u_man/man1 /usr/share/man/man1"
 syspath="$syspath /usr/catman/u_man/man1 /usr/man/l_man/man1"
 syspath="$syspath /usr/local/man/u_man/man1 /usr/local/man/l_man/man1"
 syspath="$syspath /usr/man/man.L /local/man/man1 /usr/local/man/man1"
 sysman=`./loc . /usr/man/man1 $syspath`
 ;;
esac
if $test -d "$sysman"; then
 echo "System manual is in $sysman." >&4
else
 echo "Could not find manual pages in source form." >&4
fi

Found
 in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-
5.34.0/dist/U/sysman.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id$
```

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_dirent.U,v $
?RCS: Revision 3.0.1.4  1994/10/29  16:20:01  ram
?RCS: patch36: failed scanning for 'd_namlen' with missing <dirent.h> (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:01:25  ram
?RCS: patch30: added direntrytype for hints, merely for NeXT (ADO)
?RCS: patch30: now checks for both struct dirent and direct (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:22:37  ram
?RCS: patch27: new variable direntrytype for proper type setting (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24
 14:11:15  ram
?RCS: patch16: added new Direntry_t pseudo-type for directory entries
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit looks whether there is a dirent system or not
?X:
?MAKE:i_dirent d_dirnamlen direntrytype: test contains Setvar \
 Myread Findhdr cppstdin cppflags cppminus rm_try
?MAKE: -pick add $@ %<
?S:i_dirent:
?S: This variable conditionally defines I_DIRENT, which indicates
?S: to the C program that it should include <dirent.h>.
?S:.
?S:d_dirnamlen:
?S: This variable conditionally defines DIRNAMLEN, which indicates
?S: to the C program that the length of directory entry names is
?S: provided by a d_namelen field.
?S:.
?S:direntrytype:
?S: This symbol is set to 'struct direct' or 'struct dirent' depending on
?S: whether dirent is available or not. You should use this pseudo type to
?S: portably declare your directory entries.
?S:.
?C:I_DIRENT:
```

```
?C: This symbol, if defined, indicates to the C program
 that it should
?C: include <dirent.h>. Using this symbol also triggers the definition
?C: of the Direntry_t define which ends up being 'struct dirent' or
?C: 'struct direct' depending on the availability of <dirent.h>.
?C:.
?C:DIRNAMLEN:
?C: This symbol, if defined, indicates to the C program that the length
?C: of directory entry names is provided by a d_namlen field.  Otherwise
?C: you need to do strlen() on the d_name field.
?C:.
?C:Direntry_t:
?C: This symbol is set to 'struct direct' or 'struct dirent' depending on
?C: whether dirent is available or not. You should use this pseudo type to
?C: portably declare your directory entries.
?C:.
?H:#$i_dirent I_DIRENT  /**/
?H:#$d_dirnamlen DIRNAMLEN /**/
?H:?%<:@if I_DIRENT && Direntry_t
?H:?%<:#define Direntry_t $direntrytype
?H:?%<:@end
?H:.
?T:xinc guess1 guess2
?LINT:set i_dirent d_dirnamlen
: see if this is a dirent system
echo " "
if xinc=`./findhdr dirent.h`; $test "$xinc"; then
 val="$define"
 echo "<dirent.h> found." >&4
else
 val="$undef"
 if
 xinc=`./findhdr sys/dir.h`; $test "$xinc"; then
  echo "<sys/dir.h> found." >&4
  echo " "
 else
  xinc=`./findhdr sys/ndir.h`
 fi
 echo "<dirent.h> NOT found." >&4
fi
set i_dirent
eval $setvar

?X: Use struct dirent or struct direct?   If we're using dirent.h,
?X: it's probably struct dirent, but apparently not always.
?X: Assume $xinc still contains the name of the header file we're using.
@if direntrytype || Direntry_t
: Look for type of directory structure.
```

```
echo " "
$cppstdin $cppflags $cppminus < "$xinc" > try.c

case "$direntrytype" in
"|' ')
 case "$i_dirent" in
 $define) guess1='struct dirent' ;;
 *) guess1='struct direct'  ;;
 esac
 ;;
*) guess1="$direntrytype"
 ;;
esac

case "$guess1" in
'struct dirent') guess2='struct direct' ;;
*) guess2='struct dirent' ;;
esac

if $contains "$guess1" try.c >/dev/null 2>&1; then
 direntrytype="$guess1"
 echo "Your directory entries are $direntrytype." >&4
elif $contains "$guess2" try.c >/dev/null 2>&1; then
 direntrytype="$guess2"
 echo
 "Your directory entries seem to be $direntrytype." >&4
else
 echo "I don't recognize your system's directory entries." >&4
 rp="What type is used for directory entries on this system?"
 dflt="$guess1"
 . ./myread
 direntrytype="$ans"
fi
$rm_try

@end

@if d_dirnamlen || DIRNAMLEN
: see if the directory entry stores field length
echo " "
$cppstdin $cppflags $cppminus < "$xinc" > try.c
if $contains 'd_namlen' try.c >/dev/null 2>&1; then
 echo "Good, your directory entry keeps length information in d_namlen." >&4
 val="$define"
else
 echo "Your directory entry does not know about the d_namlen field." >&4
 val="$undef"
fi
```

```
set d_dirnamlen
eval $setvar
$rm_try

@end
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_dirent.U
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```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Unix.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:20:06  ram
?RCS: patch61: created
?RCS:
?X:
?X: The purpose of this unit is to define things that are common across all
?X: known UNIX platforms. If Configure is ported/used on a non-UNIX
?X: environment, then some of the following variables can be redefined in hint
?X: files.
?X:
?MAKE:Unix _a _o firstmakefile archobjs: Oldconfig
?MAKE: -pick add $@ %<
?S:_a (lib_ext):
?S: This variable defines the extension
 used for ordinary libraries.
?S: For unix, it is '.a'.  The '.' is included.  Other possible
?S: values include '.lib'.
?S:.
?S:_o (obj_ext):
?S: This variable defines the extension used for object files.
?S: For unix, it is '.o'.  The '.' is included.  Other possible
?S: values include '.obj'.
?S:.
?S:firstmakefile:
?S: This variable defines the first file searched by make.  On unix,
?S: it is makefile (then Makefile).  On case-insensitive systems,
```

```
?S: it might be something else.  This is only used to deal with
?S: convoluted make depend tricks.
?S:.
?S:archobjs:
?S: This variable defines any additional objects that must be linked
?S: in with the program on this architecture.  On unix, it is usually
?S: empty.  It is typically used to include emulations of unix calls
?S: or other facilities.  For perl on OS/2, for example, this would
?S: include os2/os2.obj.
?S:.
?INIT:: Extra object files, if any, needed on this platform.
?INIT:archobjs="
: Define several unixisms.
: Hints files
 or command line option can be used to override them.
case "$_a" in
") _a='.a';;
esac
case "$_o" in
") _o='.o';;
esac

@if firstmakefile
: Which makefile gets called first.  This is used by make depend.
case "$firstmakefile" in
") firstmakefile='makefile';;
esac

@end
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Unix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: models.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:13:17  ram
?RCS: patch61: added ?F: metalint hint
```

```
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:02:39  ram
?RCS: patch6: added default for large
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:models split small medium large huge: test cat Myread sysman Oldconfig \
 Loc Warn contains rm
?MAKE: -pick add $@ %<
?S:models:
?S: This variable contains the list of memory models supported by
 this
?S: system.  Possible component values are none, split, unsplit, small,
?S: medium, large, and huge.  The component values are space separated.
?S:.
?S:split:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program that will run in separate I and D space, for those
?S: machines that support separation of instruction and data space.  It is
?S: up to the Makefile to use this.
?S:.
?S:small:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program running with a small memory model.  It is up to
?S: the Makefile to use this.
?S:.
?S:medium:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program running with a medium memory model.  If the
?S: medium model is not supported, contains the flag to produce large
?S: model programs.  It is up to the Makefile to use this.
?S:.
?S:large:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to
 produce a program running with a large memory model.  It is up to
?S: the Makefile to use this.
?S:.
?S:huge:
?S: This variable contains a flag which will tell the C compiler and loader
?S: to produce a program running with a huge memory model.  If the
?S: huge model is not supported, contains the flag to produce large
?S: model programs.  It is up to the Makefile to use this.
?S:.
?T:unsplit tans modelcc
?F:!pdp11
?D:large="
```

```
?LINT:extern cc
: see what memory models we can support
case "$models" in
")
?X: We may not use Cppsym or we get a circular dependency through cc.
?X: But this should work regardless of which cc we eventually use.
 $cat >pdp11.c <<'EOP'
int main() {
#ifdef pdp11
 exit(0);
#else
 exit(1);
#endif
}
EOP
?X: Run cc in a subshell in case they don't have a 'cc' command.
?X: Presumably they do have gcc or something.
 case "$cc" in
 ") modelcc="$cc" ;;
 *) modelcc="cc" ;;
 esac
 ( $modelcc -o pdp11 pdp11.c ) >/dev/null 2>&1
 if $test -f pdp11 && ./pdp11 2>/dev/null;
 then
  dflt='unsplit split'
 else
  tans=`./loc . X /lib/small /lib/large /usr/lib/small /usr/lib/large /lib/medium /usr/lib/medium /lib/huge`
  case "$tans" in
  X) dflt='none';;
  *) if $test -d /lib/small || $test -d /usr/lib/small; then
   dflt='small'
   else
    dflt="
   fi
   if $test -d /lib/medium || $test -d /usr/lib/medium; then
    dflt="$dflt medium"
   fi
   if $test -d /lib/large || $test -d /usr/lib/large; then
    dflt="$dflt large"
   fi
   if $test -d /lib/huge || $test -d /usr/lib/huge; then
    dflt="$dflt huge"
   fi
  esac
 fi;;
*) dflt="$models";;
esac
$cat <<EOM
```

```
Some systems have different model sizes.  On most systems they are called
small, medium, large, and huge.  On the PDP11 they are called unsplit and
split.  If your system doesn't support different memory models, say "none".
If you wish to force everything to one memory model, say "none" here and
put the appropriate flags later when it asks you for other cc and ld flags.
Venix systems may wish
 to put "none" and let the compiler figure things out.
(In the following question multiple model names should be space separated.)

The default for most systems is "none".

EOM
rp="Which memory models are supported?"
. ./myread
models="$ans"

case "$models" in
none)
 small="
 medium="
 large="
 huge="
 unsplit="
 split="
 ;;
*split)
 case "$split" in
 ") if $contains '\-i' $sysman/ld.1 >/dev/null 2>&1 || \
    $contains '\-i' $sysman/cc.1 >/dev/null 2>&1; then
   dflt='-i'
  else
   dflt='none'
  fi;;
 *) dflt="$split";;
 esac
 rp="What flag indicates separate I and D space?"
 . ./myread
 tans="$ans"
 case "$tans" in
 none) tans=";;
 esac
 split="$tans"
 unsplit=";;
*large*|*small*|*medium*|*huge*)
 case "$models" in
 *large*)
  case "$large" in
```

```
 ") dflt='-Ml';;
 *) dflt="$large";;
 esac
rp="What flag indicates large model?"
. ./myread
tans="$ans"
case "$tans" in
none) tans=";
esac
large="$tans";;
*) large=";;
esac
case "$models" in
*huge*) case "$huge" in
 ")
dflt='-Mh';;
 *) dflt="$huge";;
 esac
 rp="What flag indicates huge model?"
 . ./myread
 tans="$ans"
 case "$tans" in
 none) tans=";
 esac
 huge="$tans";;
*) huge="$large";;
esac
case "$models" in
*medium*) case "$medium" in
 ") dflt='-Mm';;
 *) dflt="$medium";;
 esac
 rp="What flag indicates medium model?"
 . ./myread
 tans="$ans"
 case "$tans" in
 none) tans=";
 esac
 medium="$tans";;
*) medium="$large";;
esac
case "$models" in
*small*) case "$small" in
 ") dflt='none';;
 *) dflt="$small";;
 esac
 rp="What flag indicates small model?"
 . ./myread
```

```
  tans="$ans"
  case "$tans" in
  none) tans=";
  esac
  small="$tans";;
 *) small=";;
 esac
 ;;
*)
 ./warn "Unrecognized memory models--you may have to edit Makefile.SH"
 ;;
esac
$rm -f pdp11.* pdp11
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/models.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_htonl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_htonl.U,v $
?RCS: Revision 3.0.1.2  1994/08/29  16:09:25  ram
?RCS: patch32: now properly handles htonl() and friends when macros (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:45:00  ram
?RCS: patch23: now also check for htonl() macro (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:22  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_htonl: Inlibc Setvar i_niin i_sysin i_arpainet cat rm contains \
 cppstdin cppflags cppminus
?MAKE: -pick
 add $@ %<
?S:d_htonl:
?S: This variable conditionally defines HAS_HTONL if htonl() and its
?S: friends are available to do network order byte swapping.
?S:.
?C:HAS_HTONL (HTONL):
```

```
?C: This symbol, if defined, indicates that the htonl() routine (and
?C: friends htons() ntohl() ntohs()) are available to do network
?C: order byte swapping.
?C:.
?C:HAS_HTONS (HTONS):
?C: This symbol, if defined, indicates that the htons() routine (and
?C: friends htonl() ntohl() ntohs()) are available to do network
?C: order byte swapping.
?C:.
?C:HAS_NTOHL (NTOHL):
?C: This symbol, if defined, indicates that the ntohl() routine (and
?C: friends htonl() htons() ntohs()) are available to do network
?C: order byte swapping.
?C:.
?C:HAS_NTOHS (NTOHS):
?C: This symbol, if defined, indicates that the ntohs() routine (and
?C: friends htonl() htons() ntohl()) are available to do network
?C: order byte swapping.
?C:.
?H:#$d_htonl HAS_HTONL  /**/
?H:#$d_htonl HAS_HTONS  /**/
?H:#$d_htonl HAS_NTOHL  /**/
?H:#$d_htonl
 HAS_NTOHS  /**/
?H:.
?F:!htonl.c
?LINT:set d_htonl
: see if htonl --and friends-- exists
val=''
set htonl val
eval $inlibc

: Maybe they are macros.
case "$val" in
$undef)
 $cat >htonl.c <<EOM
#include <stdio.h>
#include <sys/types.h>
#$i_niin I_NETINET_IN
#$i_sysin I_SYS_IN
#$i_arpainet I_ARPA_INET
#ifdef I_NETINET_IN
#include <netinet/in.h>
#endif
#ifdef I_SYS_IN
#include <sys/in.h>
#endif
#ifdef I_ARPA_INET
```

```
#include <arpa/inet.h>
#endif
#ifdef htonl
printf("Defined as a macro.");
#endif
EOM
 $cppstdin $cppflags $cppminus < htonl.c >htonl.E 2>/dev/null
 if $contains 'Defined as a macro' htonl.E >/dev/null 2>&1; then
  val="$define"
  echo "But it seems to be defined as a macro." >&4
 fi
 $rm -f htonl.?
 ;;
esac
set d_htonl
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_htonl.U
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```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:usemorebits: Setvar
?MAKE: -pick add $@ %<
?Y:TOP
?S:usemorebits:
?S: This variable conditionally defines the USE_MORE_BITS symbol,
?S: and indicates that explicit 64-bit interfaces and long doubles
?S: should be used when available.
?S:.
?C:USE_MORE_BITS:
?C: This symbol, if defined, indicates that 64-bit interfaces and
?C: long doubles should be used when available.
?C:.
?H:?%<:#ifndef USE_MORE_BITS
?H:?%<:#$usemorebits USE_MORE_BITS  /**/
?H:?%<:#endif
?H:.
?LINT:extern use64bitint
?LINT:change use64bitint
?LINT:extern uselongdouble
```

```
?LINT:change uselongdouble
: Check if morebits is requested
case "$usemorebits" in
"$define"|true|[yY]*)
 use64bitint="$define"
 uselongdouble="$define"
 usemorebits="$define"
 ;;
*) usemorebits="$undef"
 ;;
esac
```

Found
 in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/usemorebits.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_trunc: Inlibc
?MAKE: -pick add $@ %<
?S:d_trunc:
?S: This variable conditionally defines the HAS_TRUNC symbol, which
?S: indicates to the C program that the trunc() routine is available
?S: to round doubles towards zero.
?S:.
?C:HAS_TRUNC:
?C: This symbol, if defined, indicates that the trunc routine is
?C: available to round doubles towards zero.
?C:.
?H:#$d_trunc HAS_TRUNC  /**/
?H:.
?LINT:set d_trunc
: see if trunc exists
set trunc d_trunc
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_trunc.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rename.C,v 3.0.1.1 1994/01/24 13:58:42 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* $Log: rename.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:42  ram
* patch16: created
*
*/
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/rename.C
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Whoa.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:21:21  ram
?RCS: patch61: whoa script now starts with leading "startsh"
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:02:01  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to warn the user in case a change into a variable is noticed.
?X:
?X: To use this
 unit, $was must hold the old value that has changed. Upon
?X: exit, the two variables $td and $tu are set to the correct value for
?X: respectively defining or undefining a variable. For instance, if $vas was
?X: $undef, but now $var is $define, after calling . whoa, you should use
?X: eval "$var=\$tu" to finally set $var to the correct value. See unit Inlibc.
```

```
?X:
?MAKE:Whoa: Myread startsh hint
?MAKE: -pick add $@ %<
?F:./whoa
?T:var was
?LINT:change td tu
: set up the script used to warn in case of inconsistency
cat <<EOS >whoa
$startsh
EOS
cat <<'EOSC' >>whoa
dflt=y
echo " "
echo "*** WHOA THERE!!! ***" >&4
echo "    The $hint value for \$$var on this machine was \"$was\"!" >&4
rp="    Keep the $hint value?"
. ./myread
case "$ans" in
y) td=$was; tu=$was;;
esac
EOSC
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Whoa.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_speedopt.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_speedopt.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:15:51  ram
?RCS: patch36: call ./Cppsym explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_speedopt: Myread Cppsym Oldconfig cat models Setvar
?MAKE: -pick add $@ %<
?S:d_speedopt:
?S: This variable conditionally defines the SPEED_OVER_MEM symbol, which
```

```
?S: indicates to the C program that it can
 burn memory in order to save
?S: CPU time.
?S:.
?C:SPEED_OVER_MEM (SPEEDOVERMEM):
?C: This symbol, if defined, indicates that the program can use more
?C: memory in order to reduce CPU time.  The symbol doesn't say whether
?C: we are more interested in saving text space or data space.
?C:.
?H:#$d_speedopt SPEED_OVER_MEM /**/
?H:.
?LINT:set d_speedopt
: do we want speed at the expense of memory
$cat <<'EOM'

I can try to optimize this package for either speed or memory.  If you have
limited address space you may wish to optimize for memory.  Otherwise you
should probably optimize for speed.

EOM
case "$d_speedopt" in
") if ./Cppsym $smallmach; then
 case "$models" in
  *large*|*huge*) dflt=speed;;
  *) dflt=memory;;
  esac
 else
  dflt=speed
 fi
 ;;
*define*) dflt=speed;;
*) dflt=memory;;
esac
rp="What to optimize for?"
. ./myread
case "$ans" in
mem*) val="$undef";;
*) val="$define";;
esac
set d_speedopt
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_speedopt.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: i_values.U 1 2006-08-24 12:32:52Z rmanfredi $

```
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_values.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:48:34  ram
?RCS: patch61: created
?RCS:
?MAKE:i_values: Inhdr
?MAKE: -pick add $@ %<
?S:i_values:
?S: This variable conditionally defines the I_VALUES symbol, and indicates
?S: whether a C program may include <values.h> to get symbols like MAXLONG
?S: and friends.
?S:.
?C:I_VALUES:
?C: This symbol, if defined, indicates to the C program that it should
?C: include
 <values.h> to get definition of symbols like MINFLOAT or
?C: MAXLONG, i.e. machine dependant limitations.  Probably, you
?C: should use <limits.h> instead, if it is available.
?C:.
?H:#$i_values I_VALUES  /**/
?H:.
?LINT:set i_values
: see if this is a values.h system
set values.h i_values
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_values.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_chroot.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_chroot.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:17  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_chroot: Inlibc
?MAKE: -pick add $@ %<
?S:d_chroot:
?S: This variable conditionally defines the HAS_CHROOT symbol, which
?S: indicates to the C program that the chroot() routine is available.
?S:.
?C:HAS_CHROOT :
?C: This symbol, if defined, indicates that the chroot routine
 is
?C: available.
?C:.
?H:#$d_chroot HAS_CHROOT  /**/
?H:.
?LINT:set d_chroot
: see if chroot exists
set chroot d_chroot
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_chroot.U
No license file was found, but licenses were detected in source scan.

```
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:fpossize: Myread Typedef fpostype Compile longsize run i_stdlib
?MAKE: -pick add $@ %<
?S:fpossize:
?S: This variable contains the size of a fpostype in bytes.
?S:.
?C:Fpos_t_size:
?C: This symbol holds the size of a Fpos_t in bytes.
?C:.
```

```
?H:#define Fpos_t_size $fpossize  /* FPOS size */
?H:.
?T:yyy zzz
?F:!try
: Check size for Fpos_t
echo " "
case "$fpostype" in
*_t) zzz="$fpostype" ;;
*)   zzz="fpos_t" ;;
esac
echo "Checking the size of $zzz..." >&4
cat > try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef
 I_STDLIB
#include <stdlib.h>
#endif
int main() {
   printf("%d\n", (int)sizeof($fpostype));
   exit(0);
}
EOCP
set try
if eval $compile_ok; then
 yyy=`$run ./try`
 case "$yyy" in
 ") fpossize=4
  echo "(I can't execute the test program--guessing $fpossize.)" >&4
  ;;
 *) fpossize=$yyy
  echo "Your $zzz is $fpossize bytes long."
  ;;
 esac
else
 dflt="$longsize"
 echo " " >&4
 echo "(I can't compile the test program.  Guessing...)" >&4
 rp="What is the size of your file positions (in bytes)?"
 . ./myread
 fpossize="$ans"
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/fpossize.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: sizetype.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:32:10  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:sizetype: Myread Typedef
?MAKE: -pick add $@ %<
?S:sizetype:
?S: This variable defines sizetype to be something like size_t,
?S: unsigned long, or whatever type is used to declare length
?S: parameters for string functions.
?S:.
?C:Size_t:
?C: This symbol holds the type used to declare length parameters
?C: for string
 functions.  It is usually size_t, but may be
?C: unsigned long, int, etc.  It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Size_t $sizetype  /* length paramater for string functions */
?H:.
: see what type is used for size_t
set size_t sizetype 'unsigned int' stdio.h sys/types.h
eval $typedef
dflt="$sizetype"
echo " "
rp="What type is used for the length parameter for string functions?"
. ./myread
sizetype="$ans"
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/sizetype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Config_h.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  14:57:43  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:10:49  ram
?RCS: patch59: commented the purpose of the #un-def directive
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:25:39  ram
?RCS: patch49: typo fixes in leading config.h comment (WED)
?RCS:
?RCS: Revision 3.0.1.2  1993/08/24  12:13:20  ram
?RCS: patch3: added TOP as a local shell temporary variable
?RCS:
?RCS: Revision 3.0.1.1  1993/08/19  06:42:20
  ram
?RCS: patch1: leading config.sh searching was not aborting properly
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file ends up producing the config_h.SH script, which is run to produce
?X: the config.h file.  The file ./.Config_h below contains all the ?H: lines
?X: extracted out of all the units.  Metaconfig itself adds the !GROK!THIS!.
?X: Note that this code isn't included into Configure, but must be shipped with.
?X:
?X: For those who wish to know why the file is config_h.SH instead of the more
?X: natural config.h.SH, well... it is to support systems like MS-DOG. Only one
?X: 'dot' is allowed within the file name, as it is part of the "extension" of
?X: the file. MS-DOG will not let you have two 'dots' because that would mean
?X: two "extensions".
?X:
?MAKE:Config_h: Id End Config_sh Obsol_h myuname cf_time cf_by package src
?MAKE: -pick c_h_weed $@ %<
?MAKE: -pick c_h_weed $@ ./Config_h
?MAKE: -pick
 c_h_weed $@ ./Obsol_h
?T:CONFIG TOP
```

```
?LINT:unclosed !GROK!THIS!
?LINT:extern CONFIG_H CONFIG_SH
?LINT:change CONFIG_H CONFIG_SH
?LINT:nocomment
case "$CONFIG_SH" in
") CONFIG_SH=config.sh;;
esac
case "$CONFIG_H" in
") CONFIG_H=config.h;;
esac
case $CONFIG in
")
 if test -f $CONFIG_SH; then TOP=.;
 elif test -f ../$CONFIG_SH; then TOP=..;
 elif test -f ../../$CONFIG_SH; then TOP=../..;
 elif test -f ../../../$CONFIG_SH; then TOP=../../..;
 elif test -f ../../../../$CONFIG_SH; then TOP=../../../..;
 else
  echo "Can't find $CONFIG_SH."; exit 1
 fi
 . $TOP/$CONFIG_SH
 ;;
esac
?X: Make sure we are in the directory where the .SH file is located.
case "$0" in
*/*) cd `expr X$0 : 'X\(.*\)/'` ;;
esac
echo "Extracting $CONFIG_H (with variable substitutions)"
?X:
?X: Since we unconditionally translate leading #undef into /*#define, we're
?X: stuck when we really want to have a #undef in config.h. That's why there
?X: is provision here for #un-def, which is translated back into #undef after
?X:
 all original #undef have been processed.
?X:
?X: Previously, we changed all
?X:  #undef FOO /**/
?X: into
?X:  /*#define FOO /**/
?X: The xlc compiler (available on IBM's AIX) complains that this is
?X: an illegal attempt to write a nested comment, and warns against it.
?X: There's apparently no way to shut the compiler up, either.
?X: This sed command from Hallvard B Furuseth <h.b.furuseth@usit.uio.no>
?X: changes it to
?X:  /*#define FOO / **/
sed <<!GROK!THIS! >$CONFIG_H -e 's!^#undef\(.*/\)\*!/\*#define\1 \*!' -e 's!^#un-def!#undef!'
/*
* This file was produced by running the config_h.SH script, which
```

```
* gets its values from $CONFIG_SH, which is generally produced by
* running Configure.
*
* Feel free to modify any of this as the need arises.  Note, however,
* that running config_h.SH again will wipe out any changes you've made.
* For a more permanent change edit $CONFIG_SH and rerun config_h.SH.
*
* \$Id: Config_h.U 1 2006-08-24 12:32:52Z rmanfredi $
*/

/*
* Package name
     : $package
* Source directory  : $src
* Configuration time: $cf_time
* Configured by     : $cf_by
* Target system     : $myuname
*/

#ifndef _config_h_
#define _config_h_
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Config_h.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_readlink.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_readlink.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:11:52  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_readlink: Inlibc
?MAKE: -pick add $@ %<
?S:d_readlink:
?S: This variable conditionally defines the HAS_READLINK symbol, which
?S: indicates to the C program that the readlink() routine is available
```

```
?S: to read the value of a symbolic link.
?S:.
?C:HAS_READLINK :
?C: This
 symbol, if defined, indicates that the readlink routine is
?C: available to read the value of a symbolic link.
?C:.
?H:#$d_readlink HAS_READLINK  /**/
?H:.
?LINT:set d_readlink
: see if readlink exists
set readlink d_readlink
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_readlink.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_tcgtpgrp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_tcgtpgrp.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:12:08  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_tcgetpgrp: Inlibc
?MAKE: -pick add $@ %<
?S:d_tcgetpgrp:
?S: This variable conditionally defines the HAS_TCGETPGRP symbol, which
?S: indicates to the C program that the tcgetpgrp() routine is available.
?S: to get foreground process group ID.
?S:.
?C:HAS_TCGETPGRP
 :
?C: This symbol, if defined, indicates that the tcgetpgrp routine is
?C: available to get foreground process group ID.
?C:.
?H:#$d_tcgetpgrp HAS_TCGETPGRP  /**/
```

```
?H:.
?LINT:set d_tcgetpgrp
: see if tcgetpgrp exists
set tcgetpgrp d_tcgetpgrp
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_tcgtpgrp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: package.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: package.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:27:21  ram
?RCS: patch36: beware of non-ascii character sets when translating case
?RCS:
?RCS: Revision 3.0.1.2  1993/11/10  17:37:02  ram
?RCS: patch14: skip definition of spackage if not otherwise used
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:11:10  ram
?RCS: patch10: added spackage, suitable for starting sentences
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:28  ram
?RCS: Baseline for dist 3.0
 netwide release.
?RCS:
?MAKE:package spackage: Nothing
?MAKE: -pick wipe $@ %<
?S:package:
?S: This variable contains the name of the package being constructed.
?S: It is primarily intended for the use of later Configure units.
?S:.
?S:spackage:
?S: This variable contains the name of the package being constructed,
?S: with the first letter uppercased, i.e. suitable for starting
?S: sentences.
?S:.
?X: dist-4 has defined PACKAGE: here, which clashes with perly.h
?X:  as package is a reserved keyword in perl
```

```
?T:first last
: set package name
package='<PACKAGENAME>'
@if spackage
first=`echo $package | sed -e 's/^\(.\).*/\1/'`
last=`echo $package | sed -e 's/^.\(.*\)/\1/'`
?X:
?X: So early in the Configure script, we don't have ./tr set up and can't
?X: include Tr in our dependency or that would create a cycle. Therefore,
?X: we have to somehow duplicate the work done in Tr. That's life.
?X:
case "`echo AbyZ | tr '[:lower:]' '[:upper:]' 2>/dev/null`"-"`echo AbyZ | tr '[:upper:]' '[:lower:]'
 2>/dev/null`" in
ABYZ-abyz) spackage=`echo $first | tr '[:lower:]' '[:upper:]'`$last;;
*) spackage=`echo $first | tr '[a-z]' '[A-Z]'`$last;;
esac
@end
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/package.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_c99_variadic_macros: Compile Setvar cat rm_try run
?MAKE: -pick add $@ %<
?S:d_c99_variadic_macros:
?S: This variable conditionally defines the HAS_C99_VARIADIC_MACROS
?S: symbol, which indicates to the C program that C99 variadic macros
?S: are available.
?S:.
?C:HAS_C99_VARIADIC_MACROS:
?C: If defined, the compiler supports C99 variadic macros.
?C:.
?H:#$d_c99_variadic_macros HAS_C99_VARIADIC_MACROS /**/
?H:.
?F:!try
: see if the Compiler supports C99 variadic macros
echo "Checking for C99 variadic macros." >&4
$cat >try.c <<EOCP
#include
```

```
 <stdio.h>
#include <stdarg.h>

#define foo(buffer, format, ...) sprintf(buffer, format, __VA_ARGS__)

int main() {
 char buf[20];
 foo(buf, "%d %g %.*s", 123, 456.0, (int)3, "789fail");
 puts(buf);
 return 0;
}
EOCP
set try
if eval $compile && $run ./try 2>&1 >/dev/null; then
   case "`$run ./try`" in
 "123 456 789")
 echo "You have C99 variadic macros." >&4
 d_c99_variadic_macros="$define"
 ;;
 *)
 echo "You don't have functional C99 variadic macros." >&4
 d_c99_variadic_macros="$undef"
 ;;
   esac
else
   echo "I couldn't compile and run the test program, so I assume that you don't have functional C99 variadic
macros." >&4
   d_c99_variadic_macros="$undef"
fi
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_c99_variadic.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setpgrp.U,v 3.0.1.3 1997/02/28 15:44:16 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_setpgrp.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:44:16  ram
```

```
?RCS: patch61: obsoleted USE_BSDGRP in favor of USE_BSD_SETPGRP
?RCS: patch61: another unit now also defines a USE_BSD_GETPGRP
?RCS: patch61: fallback for test program failure improved
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  13:59:30  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:15:37  ram
?RCS: patch36: added
 'ldflags' to the test compile line (ADO)
?RCS: patch36: call ./usg explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setpgrp d_bsdsetpgrp: cat rm_try +cc +libs +ccflags \
 +ldflags Inlibc Guess Setvar i_unistd i_stdlib run
?MAKE: -pick add $@ %<
?S:d_setpgrp:
?S: This variable conditionally defines HAS_SETPGRP if setpgrp() is
?S: available to set the current process group.
?S:.
?S:d_bsdsetpgrp (d_bsdpgrp):
?S: This variable conditionally defines USE_BSD_SETPGRP if
?S: setpgrp needs two arguments whereas USG one needs none.
?S: See also d_setpgid for a POSIX interface.
?S:.
?C:HAS_SETPGRP (SETPGRP):
?C: This symbol, if defined, indicates that the setpgrp routine is
?C: available to set the current process group.
?C:.
?C:USE_BSD_SETPGRP (USE_BSDPGRP BSDPGRP):
?C: This symbol, if defined, indicates that setpgrp needs two
?C: arguments whereas USG one needs none.  See also HAS_SETPGID
?C: for
 a POSIX interface.
?C:.
?H:#$d_setpgrp HAS_SETPGRP  /**/
?H:#$d_bsdsetpgrp USE_BSD_SETPGRP /**/
?H:.
?T:xxx
?F:!try
?LINT:set d_setpgrp d_bsdsetpgrp
: see if setpgrp exists
set setpgrp d_setpgrp
eval $inlibc

@if USE_BSD_SETPGRP || d_bsdsetpgrp
```

```
case "$d_setpgrp" in
"$define")
 echo " "
 echo "Checking to see which flavor of setpgrp is in use..."
 $cat >try.c <<EOP
#include <stdio.h>
#$i_unistd I_UNISTD
#include <sys/types.h>
#ifdef I_UNISTD
#  include <unistd.h>
#endif
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
int main()
{
 if (getuid() == 0) {
  printf("(I see you are running Configure as super-user...)\n");
  setuid(1);
 }
#ifdef TRY_BSD_PGRP
 if (-1 == setpgrp(1, 1))
  exit(0);
#else
 if (setpgrp() != -1)
  exit(0);
#endif
 exit(1);
}
EOP
 if $cc -o try -DTRY_BSD_PGRP $ccflags $ldflags try.c $libs >/dev/null 2>&1 && $run ./try; then
  echo 'You have to use setpgrp(pid,pgrp) instead of setpgrp().' >&4
  val="$define"
 elif $cc -o try $ccflags $ldflags try.c $libs
 >/dev/null 2>&1 && $run ./try; then
  echo 'You have to use setpgrp() instead of setpgrp(pid,pgrp).' >&4
  val="$undef"
 else
  echo "(I can't seem to compile and run the test program.)"
  if ./usg; then
   xxx="a USG one, i.e. you use setpgrp()."
  else
   # SVR4 systems can appear rather BSD-ish.
   case "$i_unistd" in
   $undef)
    xxx="a BSD one, i.e. you use setpgrp(pid,pgrp)."
    val="$define"
```

```
    ;;
   $define)
    xxx="probably a USG one, i.e. you use setpgrp()."
    val="$undef"
    ;;
   esac
  fi
  echo "Assuming your setpgrp is $xxx" >&4
 fi
 ;;
*) val="$undef";;
esac
set d_bsdsetpgrp
eval $setvar
$rm_try
@end
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_setpgrp.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:i_syssecrt: Inhdr
?MAKE: -pick add $@ %<
?S:i_syssecrt:
?S: This variable conditionally defines the I_SYS_SECURITY symbol,
?S: and indicates whether a C program should include <sys/security.h>.
?S:.
?C:I_SYS_SECURITY:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/security.h>.
?C:.
?H:#$i_syssecrt   I_SYS_SECURITY /**/
?H:.
?LINT:set i_syssecrt
: see if sys/security.h is available
set sys/security.h i_syssecrt
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/acl/i_syssecrt.U
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```
?RCS: $Id: selecttype.U,v 3.0.1.3 1997/02/28 16:20:09 ram Exp $
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: selecttype.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:20:09  ram
?RCS: patch61: always include <sys/select.h> when available for test
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  14:14:06  ram
?RCS: patch56: removed harmful spaces in assignment
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:06:31  ram
?RCS: patch30: created by ADO
?RCS:
?MAKE:selecttype: Protochk Oldconfig Myread cat
 \
 d_fd_set d_select d_socket i_systime i_sysselct extern_C
?MAKE: -pick add $@ %<
?S:selecttype:
?S: This variable holds the type used for the 2nd, 3rd, and 4th
?S: arguments to select.  Usually, this is 'fd_set *', if HAS_FD_SET
?S: is defined, and 'int *' otherwise.  This is only useful if you
?S: have select(), naturally.
?S:.
?C:Select_fd_set_t:
?C: This symbol holds the type used for the 2nd, 3rd, and 4th
?C: arguments to select.  Usually, this is 'fd_set *', if HAS_FD_SET
?C: is defined, and 'int *' otherwise.  This is only useful if you
?C: have select(), of course.
?C:.
?H:#define Select_fd_set_t $selecttype /**/
?H:.
?T:xxx nfd tmo try hdrs val
: check for type of arguments to select.
```

```
case "$selecttype" in
") case "$d_select" in
 $define)
  echo " "
  $cat <<EOM
Checking to see what type of arguments are accepted by select().
EOM
  hdrs="$define sys/types.h
   $i_systime sys/time.h
   $i_sysselct sys/select.h
   $d_socket sys/socket.h"
  : The first arg can be int, unsigned,
 or size_t
  : The last arg may or may not be 'const'
  val=''
  : void pointer has been seen but using that
  : breaks the selectminbits test
  for xxx in 'fd_set *' 'int *'; do
   for nfd in 'int' 'size_t' 'unsigned long' 'unsigned' ; do
    for tmo in 'struct timeval *' 'const struct timeval *'; do
     case "$val" in
     ") try="$extern_C select _(($nfd, $xxx, $xxx, $xxx, $tmo));"
      if ./protochk "$try" $hdrs; then
       echo "Your system accepts $xxx."
       val="$xxx"
      fi
      ;;
     esac
    done
   done
  done
?X: In the unlikely event that none of those worked, prompt the user.
  case "$val" in
  ") rp='What is the type for the 2nd, 3rd, and 4th arguments to select?'
   case "$d_fd_set" in
    $define) dflt="fd_set *" ;;
    *)  dflt="int *" ;;
   esac
   . ./myread
   val=$ans
   ;;
  esac
  selecttype="$val"
  ;;
 *) : no select, so pick a harmless default
  selecttype='int *'
  ;;
 esac
```

```
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/selecttype.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: End.U,v $
?RCS: Revision 3.0  1993/08/18  12:04:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit serves as the goal which forces make to choose all the units that
?X: ask questions.  The $W on the ?MAKE: line is the list of all symbols wanted.
?X: To force any unit to be included, copy this unit to your private U directory
?X: and add the name of the unit desired to the ?MAKE: dependency line.
?X:
?MAKE:End: $W
?MAKE: -pick add $@ %<
?LINT:use $W
: end of configuration
 questions
echo " "
echo "End of configuration questions."
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/End.U
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```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fpclassify d_fp_classify: Inlibc cat Compile rm_try Setvar
?MAKE: -pick add $@ %<
```

```
?X:the short story is that C99 says use fpclassify.  But the story is confused
?X:by systems "partially C99" (or fully "pre C99") which either user fpclassify
?X:but with different return values, or they use fp_classify (with the expected)
?X:return values, or they use some other spelling of *fp*class* (sometimes even
?X:without the *fp* part), with yet another set(s) of return values ...
?S:d_fpclassify:
?S: This variable conditionally defines the HAS_FPCLASSIFY symbol, which
?S: indicates to the C program that the fpclassify() routine is available.
?S:.
?S:d_fp_classify:
?S: This variable conditionally defines the HAS_FP_CLASSIFY
 symbol, which
?S: indicates to the C program that the fp_classify() routine is available.
?S:.
?C:HAS_FPCLASSIFY:
?C: This symbol, if defined, indicates that the fpclassify routine is
?C: available to classify doubles.  Available for example in HP-UX.
?C: The returned values are defined in <math.h> and are
?C:
?C:   FP_NORMAL     Normalized
?C:   FP_ZERO       Zero
?C:   FP_INFINITE   Infinity
?C:   FP_SUBNORMAL  Denormalized
?C:   FP_NAN        NaN
?C:
?C:.
?C:HAS_FP_CLASSIFY:
?C: This symbol, if defined, indicates that the fp_classify routine is
?C: available to classify doubles. The values are defined in <math.h>
?C:
?C:   FP_NORMAL     Normalized
?C:   FP_ZERO       Zero
?C:   FP_INFINITE   Infinity
?C:   FP_SUBNORMAL  Denormalized
?C:   FP_NAN        NaN
?C:
?C:.
?H:#$d_fpclassify HAS_FPCLASSIFY  /**/
?H:#$d_fp_classify HAS_FP_CLASSIFY  /**/
?H:.
?LINT:set d_fpclassify
?LINT:set d_fp_classify
: check for fpclassify
?X:classified (Comment by jhi)
?X:fpclassify i_math
?X:fp_classify i_math
?X:fpclass i_math
```

```
 i_ieeefp i_fp
?X:fp_class i_math i_fp_class
?X:  No i_fp_class yet. But the systems that have
?X:  this (Tru64 and IRIX) both had <fp_class.h>
?X:class i_math
echo "Checking to see if you have fpclassify..." >&4
$cat >try.c <<EOCP
#include <math.h>
int main() { return fpclassify(1.0) == FP_NORMAL ? 0 : 1; }
EOCP
set try
if eval $compile; then
 val="$define"
 echo "You have fpclassify."
else
 val="$undef"
 echo "You do not have fpclassify."
fi
$rm_try
set d_fpclassify
eval $setvar

: see if fp_classify exists
set fp_classify d_fp_classify
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fpclassify.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: voidflags.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:27:58  ram
?RCS: patch61: don't prompt them if the void support is high enough for us
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:37:44  ram
?RCS: patch45: cosmetic change to avoid spurious blank lines when using -s
?RCS:
```

```
?RCS: Revision 3.0  1993/08/18  12:10:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:voidflags defvoidused: cat sed rm rm_try contains +cc +ccflags package \
 Oldconfig Myread
?MAKE: -pick add $@ %<
?S:voidflags:
?S: This
 variable contains the eventual value of the VOIDFLAGS symbol,
?S: which indicates how much support of the void type is given by this
?S: compiler.  See VOIDFLAGS for more info.
?S:.
?S:defvoidused:
?S: This variable contains the default value of the VOIDUSED symbol (15).
?S:.
?X: Exceptionally, we have to explicitly alias the symbol name for
?X: config_h.SH, otherwise the comment would not appear.
?C:VOIDFLAGS ~ %<:
?C: This symbol indicates how much support of the void type is given by this
?C: compiler.  What various bits mean:
?C:
?C:     1 = supports declaration of void
?C:     2 = supports arrays of pointers to functions returning void
?C:     4 = supports comparisons between pointers to void functions and
?C:      addresses of void functions
?C:     8 = suports declaration of generic void pointers
?C:
?C: The package designer should define VOIDUSED to indicate the requirements
?C: of the package.  This can be done either by #defining VOIDUSED before
?C: including
 config.h, or by defining defvoidused in Myinit.U.  If the
?C: latter approach is taken, only those flags will be tested.  If the
?C: level of void support necessary is not present, defines void to int.
?C:.
?H:?%<:#ifndef VOIDUSED
?H:?%<:#define VOIDUSED $defvoidused
?H:?%<:#endif
?H:?%<:#define VOIDFLAGS $voidflags
?H:?%<:#if (VOIDFLAGS & VOIDUSED) != VOIDUSED
?H:?%<:#define void int  /* is void to be avoided? */
?H:?%<:#define M_VOID   /* Xenix strikes again */
?H:?%<:#endif
?H:.
?W:%<:void
?F:!.out !try.c !flags
?LINT:usefile .out flags try.c
?INIT:: full support for void wanted by default
?INIT:defvoidused=15
```

```
?INIT:
?LINT:known void M_VOID VOIDUSED
: check for void type
echo " "
echo "Checking to see how well your C compiler groks the void type..." >&4
$cat >flags <<EOM

 Support flag bits are:
   1: basic void declarations.
   2: arrays of pointers to functions returning void.
   4: operations between pointers to and addresses of void functions.
   8: generic void pointers.

EOM
case
 "$voidflags" in
")
 $cat >try.c <<'EOCP'
#if TRY & 1
void sub() {
#else
sub() {
#endif
 extern void moo(); /* function returning void */
 void (*goo)();  /* ptr to func returning void */
#if TRY & 8
 void *hue;  /* generic ptr */
#endif
#if TRY & 2
 void (*foo[10])();
#endif

#if TRY & 4
 if(goo == moo) {
  exit(0);
 }
#endif
 exit(0);
}
int main() { sub(); }
EOCP
?X: This unit used to use cc -S in those tests to try to speed up things, but
?X: unfortunately, AIX 3.2 does not support this option.
 if $cc $ccflags -c -DTRY=$defvoidused try.c >.out 2>&1 ; then
  voidflags=$defvoidused
  echo "Good.  It appears to support void to the level $package wants."
  if $contains warning .out >/dev/null 2>&1; then
   echo "However, you might get some warnings that look like this:"
```

```
  $sed -e 's/^/ /' .out
  fi
 else
echo "Hmm, your compiler has some difficulty with void. Checking further..." >&4
  $cat >&4 flags
  $rm -f flags
  if $cc $ccflags -c -DTRY=1 try.c >/dev/null 2>&1; then
   echo
 "It supports 1..."
   if $cc $ccflags -c -DTRY=3 try.c >/dev/null 2>&1; then
    echo "It also supports 2..."
    if $cc $ccflags -c -DTRY=7 try.c >/dev/null 2>&1; then
     voidflags=7
     echo "And it supports 4 but not 8 definitely."
    else
     echo "It doesn't support 4..."
     if $cc $ccflags -c -DTRY=11 try.c >/dev/null 2>&1; then
      voidflags=11
      echo "But it supports 8."
     else
      voidflags=3
      echo "Neither does it support 8."
     fi
    fi
   else
    echo "It does not support 2..."
    if $cc $ccflags -c -DTRY=13 try.c >/dev/null 2>&1; then
     voidflags=13
     echo "But it supports 4 and 8."
    else
     if $cc $ccflags -c -DTRY=5 try.c >/dev/null 2>&1; then
      voidflags=5
      echo "And it supports 4 but has not heard about 8."
     else
      echo "However it supports 8 but not 4."
     fi
    fi
   fi
  else
   echo "There is no support at all for void."
   voidflags=0
  fi
 fi
esac
?X: Only prompt user if support does not match the
 level we want
case "$voidflags" in
"$defvoidused")
```

```
 echo "Good.  I already know it supports void to the level $package wants."
 ;;
*)
 dflt="$voidflags";
 test -f flags && $cat flags
 rp="Your void support flags add up to what?"
 . ./myread
 voidflags="$ans"
 ;;
esac
$rm_try flags
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/voidflags.U
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```
?RCS: $Id: charorder.U,v 3.0.1.1 1994/10/29 16:07:08 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: charorder.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:07:08  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:33  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:chorder_int chorder_short chorder_long: Myread cat Compile rm
?MAKE: -pick add $@ %<
?S:chorder_short (d_cos d_bos):
?S: Holds the value describing the byte ordering of characters in a short.
?S: On a Big-Endian machine, that
 would be "c0c1".
?S:.
?S:chorder_int (charoder):
?S: Holds the value describing the byte ordering of characters in an int.
?S: For instance, on a Big-Endian machine, this would be: "c0c1c2c3".
?S:.
?S:chorder_long (d_col d_bol):
?S: Holds the value describing the byte ordering of characters in a long.
?S: On a 64 bits Big-Endian machine, that would yield: "c0c1c2c3c4c5c6c7".
```

```
?S:.
?C:CHAR_ORDER_SHORT:
?C: Holds the byte ordering of characters in a short. It's a string
?C: value like "c0c1" on a Big-Endian machine.
?C:.
?C:CHAR_ORDER_INT:
?C: Holds the byte ordering of characters in an int. It's a string
?C: value like "c0c1c2c3" on a Big-Endian machine.
?C:.
?C:CHAR_ORDER_LONG:
?C: Holds the byte ordering of characters in a long. It's a string
?C: value like "c0c1c2c3c4c5c6c7" on a 64 bits Big-Endian machine.
?C:.
?H:#define CHAR_ORDER_SHORT "$chorder_short" /* byte order in a short */
?H:#define CHAR_ORDER_INT "$chorder_int" /* byte order in an int */
?H:#define CHAR_ORDER_LONG "$chorder_long"
 /* byte order in a long */
?H:.
?F:!byteorder
: check for character ordering
echo " "
echo "Checking out byte order..." >&4
$cat >byteorder.c <<'EOCP'
#include <stdio.h>

int main(argc, argv)
 int argc;
 char *argv[]; {
 int i;
 int max;
 union {
  short u_s;
  int u_i;
  long u_l;
  char u_c[sizeof(long)];
 } u;
 switch (argv[1][0]) {
 case 'l':
  u.u_l = 0L;
  /* HMS: ASSERT: sizeof(long) < 10. */
  for(i = 0; i < sizeof(long); ++i) {
   u.u_l *= 0x100L;
   u.u_l += (0xc0 + i);
  }
  max = sizeof(long);
  break;
 case 's':
  u.u_s = 0;
```

```
  /* HMS: ASSERT: sizeof(short) < 10. */
  for(i = 0; i < sizeof(short); ++i) {
   u.u_s *= 0x100L;
   u.u_s += (0xc0 + i);
  }
  max = sizeof(short);
  break;
 case 'i':
  u.u_i = 0;
  /* RAM: ASSERT: sizeof(int) < 10. */
  for(i = 0; i < sizeof(int); ++i) {
   u.u_l *= 0x100L;
   u.u_l += (0xc0 + i);
  }
  max = sizeof(int);
  break;
 default:
  max = 0;
  break;
 }
 for(i = 0; i < max; i++) {
  printf("%x", u.u_c[i] & 0x00FF);
 }
 printf("\n");
 exit(0);
}
EOCP
set
 byteorder
if eval $compile_ok ; then
 : null statement
@if chorder_short
   chorder_short=`./byteorder s`
@end
@if chorder_int
   chorder_int=`./byteorder i`
@end
@if chorder_long
   chorder_long=`./byteorder l`
@end
else
 $cat <<EOM
(I can't seem to get my test program to work.  Guessing 32 bits big-endian.)
EOM
   chorder_short="c0c1"
   chorder_int="c0c1c2c3"
   chorder_long="c0c1c2c3"
fi
```

```
@if chorder_short
dflt=$chorder_short
rp='What is the order of characters in a short?'
. ./myread
chorder_short="$ans"
@end
@if chorder_int
dflt=$chorder_int
rp='What is the order of characters in an int?'
. ./myread
chorder_int="$ans"
@end
@if chorder_long
dflt=$chorder_long
rp='What is the order of characters in a long?'
. ./myread
chorder_long="$ans"
@end
$rm -f byteorder* core
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/charorder.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_popen.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_popen.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:47  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_popen: Inlibc
?MAKE: -pick add $@ %<
?S:d_popen:
?S: This variable conditionally defines HAS_POPEN if popen() is
?S: available to open a pipe from a process.
?S:.
?C:HAS_POPEN (POPEN):
?C: This symbol, if defined, indicates that the popen routine is
?C: available to open a pipe from a process.
```

```
?C:.
?H:#$d_popen HAS_POPEN  /**/
?H:.
?LINT:set
 d_popen
: see if popen exists
set popen d_popen
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_popen.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isnanl: Inlibc
?MAKE: -pick add $@ %<
?S:d_isnanl:
?S: This variable conditionally defines the HAS_ISNANL symbol, which
?S: indicates to the C program that the isnanl() routine is available.
?S:.
?C:HAS_ISNANL:
?C: This symbol, if defined, indicates that the isnanl routine is
?C: available to check whether a long double is a NaN.
?C:.
?H:#$d_isnanl HAS_ISNANL  /**/
?H:.
?LINT:set d_isnanl
: see if isnanl exists
set isnanl d_isnanl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_isnanl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_time.U,v 3.0 1993/08/18 12:08:45 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: i_time.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit finds which "time" include to use. If 'timezone' is used by the
?X: program, we also try to find which header should be included. Eventually,
?X: we look for <sys/select.h> if I_SYSSELECT is used, to get struct timeval.
?X:
?MAKE:i_time i_systime i_systimek timeincl d_tm_tm_zone d_tm_tm_gmtoff: \
 Compile cat \
 contains rm_try echo n
 c +i_sysselct Findhdr Hasfield i_stdlib
?MAKE: -pick add $@ %<
?S:i_time:
?S: This variable unconditionally defines I_TIME, which indicates
?S: to the C program that it should include <time.h>.
?S:.
?S:i_systime:
?S: This variable conditionally defines I_SYS_TIME, which indicates
?S: to the C program that it should include <sys/time.h>.
?S:.
?S:i_systimek:
?S: This variable conditionally defines I_SYS_TIME_KERNEL, which
?S: indicates to the C program that it should include <sys/time.h>
?S: with KERNEL defined.
?S:.
?S:timeincl:
?S: This variable holds the full path of the included time header(s).
?S:.
?S:d_tm_tm_zone:
?S: This variable conditionally defines HAS_TM_TM_ZONE, which indicates
?S: to the C program that the struct tm has the tm_zone field.
?S:.
?S:d_tm_tm_gmtoff:
?S: This variable conditionally defines HAS_TM_TM_GMTOFF, which indicates
?S: to the C program that the struct tm has the tm_gmtoff field.
?S:.
?C:I_TIME (USE_TIME_H):
?C: This symbol is always defined, and indicates
 to the C program that
?C: it should include <time.h>.
?C:.
```

```
?C:I_SYS_TIME (I_SYSTIME USE_SYS_TIME_H NO_TIME_WITH_SYS_TIME):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/time.h>.
?C:.
?C:I_SYS_TIME_KERNEL (I_SYSTIMEKERNEL):
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/time.h> with KERNEL defined.
?C:.
?C:HAS_TM_TM_ZONE:
?C: This symbol, if defined, indicates to the C program that
?C: the struct tm has a tm_zone field.
?C:.
?C:HAS_TM_TM_GMTOFF:
?C: This symbol, if defined, indicates to the C program that
?C: the struct tm has a tm_gmtoff field.
?C:.
?H:#$i_time I_TIME  /**/
?H:#$i_systime I_SYS_TIME  /**/
?H:#$i_systimek I_SYS_TIME_KERNEL  /**/
?H:#$d_tm_tm_zone HAS_TM_TM_ZONE  /**/
?H:#$d_tm_tm_gmtoff HAS_TM_TM_GMTOFF  /**/
?H:.
?W::timezone
?T:xselect flags sysselect s_timeval s_timezone
?LINT:change i_sysselct
?LINT:set d_tm_tm_zone
?LINT:set d_tm_tm_gmtoff
: see if we should include sys/time.h
echo
 " "
i_time='define'
if test "X$timeincl" = X; then
 echo "Testing to see if we should include <sys/time.h>." >&4
 $echo $n "I'm now running the test program...$c"
 $cat >try.c <<EOCP
#include <sys/types.h>
#include <time.h>
#ifdef I_SYSTIME
#ifdef SYSTIMEKERNEL
#define KERNEL
#endif
#include <sys/time.h>
#endif
#ifdef I_SYSSELECT
#include <sys/select.h>
#endif
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
```

```
#include <stdlib.h>
#endif
int main()
{
 struct tm foo;
#ifdef S_TIMEVAL
 struct timeval bar;
#endif
#ifdef S_TIMEZONE
 struct timezone tzp;
#endif
 if (foo.tm_sec == foo.tm_sec)
  exit(0);
#ifdef S_TIMEVAL
 if (bar.tv_sec == bar.tv_sec)
  exit(0);
#endif
 exit(1);
}
EOCP
 flags=''
@if I_SYSSELECT
 if $contains 'timeval.*{' `./findhdr sys/select.h` >/dev/null 2>&1; then
  xselect='-DI_SYSSELECT'
 else
  xselect=''
 fi
@end
@if timezone
 for s_timezone in '-DS_TIMEZONE' ''; do
@else
 s_timezone=''
@end
?X: Every package is given a try with 'struct timeval'
@if I_SYSSELECT
 for sysselect in $xselect
 ''; do
@else
 sysselect=''
@end
 for s_timeval in '-DS_TIMEVAL' ''; do
 for i_systimek in '' '-DSYSTIMEKERNEL'; do
 for i_systime in '-DI_SYSTIME' ''; do
  case "$flags" in
  '') $echo $n ".$c"
   set try $i_systime $i_systimek $sysselect $s_timeval $s_timezone
   if eval $compile; then
    set X $i_systime $i_systimek $sysselect $s_timeval
```

```
    shift
    flags="$*"
    echo " "
    $echo $n "Succeeded with $flags$c"
   fi
   ;;
  esac
 done
 done
 done
@if I_SYSSELECT
 done
@end
@if timezone
 done
@end
 timeincl=''
 echo " "
 case "$flags" in
 *SYSTIMEKERNEL*) i_systimek="$define"
  timeincl=`./findhdr sys/time.h`
  echo "We'll include <sys/time.h> with KERNEL defined." >&4;;
 *) i_systimek="$undef";;
 esac
 case "$flags" in
 *I_SYSTIME*) i_systime="$define"
  timeincl=`./findhdr sys/time.h`" $timeincl"
  echo "We'll include <sys/time.h>." >&4;;
 *) i_systime="$undef";;
 esac
@if I_SYSSELECT
 case "$flags" in
 *I_SYSSELECT*) i_sysselct="$define"
  timeincl=`./findhdr sys/select.h`"
 $timeincl"
  echo "We'll also include <sys/select.h> to get struct timeval." >&4;;
 *) case "$i_sysselct" in
  '') i_sysselct="$undef";;
  esac
 esac
@end
 $rm_try
fi
: see if struct tm knows about tm_zone
case "$i_systime$i_time" in
*$define*)
       echo " "
       echo "Checking to see if your struct tm has tm_zone field..." >&4
```

```
	set d_tm_tm_zone tm tm_zone $i_systime sys/time.h $i_time time.h
	eval $hasfield
	;;
*)	val="$undef"
	set d_tm_tm_zone
	eval $setvar
	;;
esac
case "$d_tm_tm_zone" in
"$define")	echo "Yes, it does."	;;
*)		echo "No, it doesn't." ;;
esac
: see if struct tm knows about tm_gmtoff
case "$i_systime$i_time" in
*$define*)
	echo " "
	echo "Checking to see if your struct tm has tm_gmtoff field..." >&4
	set d_tm_tm_gmtoff tm tm_gmtoff $i_systime sys/time.h $i_time time.h
	eval $hasfield
	;;
*)	val="$undef"
	set d_tm_tm_gmtoff
	eval $setvar

	;;
esac
case "$d_tm_tm_gmtoff" in
"$define")	echo "Yes, it does."	;;
*)		echo "No, it doesn't." ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/i_time.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setvbuf.U,v 3.0.1.1 1994/08/29 16:11:57 ram Exp $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_setvbuf.U,v $
?RCS:
?MAKE:d_setvbuf: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_setvbuf:
?S: This variable conditionally defines the HAS_SETVBUF symbol, which
?S: indicates to the C program that the setvbuf() routine is available
?S: to change buffering on an open stdio stream.
?S:.
?C:HAS_SETVBUF :
?C: This symbol, if defined, indicates that the setvbuf routine is
?C: available to change buffering on an open stdio stream.
?C: to a line-buffered mode.
?C:.
?H:#$d_setvbuf HAS_SETVBUF  /**/
?H:.
?LINT:set d_setvbuf
: see if setvbuf exists
set setvbuf d_setvbuf
eval $inlibc
```

Found
 in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_setvbuf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Hasproto.U $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X: This unit generates a $hasproto string that is used internally
?X: by Configure to check if this system has a prototype for a
?X: particular function
?X:
?X: To use it, say something like:
?X:  set d_getnetent_proto getnetent $i_netdb netdb.h
?X:  eval $hasproto
?X: Or, for more complicated sets of headers, do something like
?X: hdrs="$define sys/types.h
?X:  $i_systime sys/time.h
?X:  $i_sysselct sys/select.h
?X:  $i_netdb netdb.h"
?X: set d_getnetent_proto getnetent $hdrs
?X: eval $hasproto
?X:
?X: There is also an 'escape' hatch built in.  If you have a pair
?X: of args   'literal 'stuff' then 'stuff' gets included literally
```

```
?X: into the test program.  See Protochk.U for more details.
?X:
?MAKE:Hasproto:
 Setvar cppstdin cppflags cppminus contains rm_try test
?MAKE: -pick add $@ %<
?T:func varname
?F:!try.c
?V:hasproto
: Define hasproto macro for Configure internal use
hasproto='varname=$1; func=$2; shift; shift;
while $test $# -ge 2; do
 case "$1" in
 $define) echo "#include <$2>";;
 literal) echo "$2" ;;
 esac ;
   shift 2;
done > try.c;
$cppstdin $cppflags $cppminus < try.c > tryout.c 2>/dev/null;
if $contains "$func.*(" tryout.c >/dev/null 2>&1; then
 echo "$func() prototype found.";
 val="$define";
else
 echo "$func() prototype NOT found.";
 val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try tryout.c'
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/Hasproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: make.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: make.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:09:40  ram
?RCS: patch61: created
```

```
?RCS:
?MAKE:make_set_make : Loc rm sed make
?MAKE: -pick add $@ %<
?S:make_set_make:
?S: Some versions of 'make' set the variable MAKE.  Others do not.
?S: This variable contains the string to be included in Makefile.SH
?S: so that MAKE is set if needed, and not if not needed.
?S: Possible values are:
?S:
?S: make_set_make='#'  #
 If your make program handles this for you,
?S:
?S: make_set_make="MAKE=$make" # if it doesn't.
?S:
?S: This uses a comment character so that we can distinguish a
?S: 'set' value (from a previous config.sh or Configure -D option)
?S: from an uncomputed value.
?S:.
?LINT: extern MAKE
?LINT: change MAKE
?X: This test is based on one from an autoconf-generated configure
?X: script. Autoconf stole a lot from Configure, but now it's our
?X: turn to do so... ;-) -- RAM, 21/02/97
: check whether make sets MAKE
echo " "
echo "Checking if your $make program sets \$(MAKE)..." >&4
case "$make_set_make" in
")
?X: Use sed so we don't have a line begining with @echo.  Metaconfig
?X: will think that's a command like @if or @end.
 $sed 's/^X //' > testmake.mak << 'EOF'
Xall:
X  @echo 'maketemp="$(MAKE)"'
EOF
?X: GNU make sometimes prints "make[1]: Entering...", which would confuse us
 case "`$make -f testmake.mak 2>/dev/null`" in
 *maketemp=*) make_set_make='#' ;;
 *) make_set_make="MAKE=$make" ;;
 esac
 $rm
 -f testmake.mak
 ;;
esac
case "$make_set_make" in
'#') echo "Yup, it does.";;
*) echo "Nope, it doesn't.";;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/make.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: archlib.U,v 3.1 1999/07/08 18:32:29 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: archlib.U,v $
?RCS: Revision 3.1  1999/07/08 18:32:29  doughera
?RCS: Updated for perl5.005_5x
?RCS:
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:15:18  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/02/15  14:14:14  ram
?RCS: patch51: architecture name is now
 computed by a separate unit
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:32:22  ram
?RCS: patch49: archname is now systematically recomputed
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:02:36  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_archlib archlib archlibexp installarchlib: \
 cat Getfile Setprefixvar Loc Oldconfig archname spackage  \
 privlib sed test Prefixit Prefixup binexp
?MAKE: -pick add $@ %<
?Y:TOP
?S:d_archlib:
?S: This variable conditionally defines ARCHLIB to hold the pathname
?S: of architecture-dependent library files for $package.  If
?S: $archlib is the same as $privlib, then this is set to undef.
?S:.
?D:archlib="
```

```
?S:archlib:
?S: This variable holds the name of the directory in which the user wants
?S: to put architecture-dependent public library files for $package.
?S: It is most often a local directory such as /usr/local/lib.
?S: Programs using this variable must be prepared to deal
?S: with
 filename expansion.
?S:.
?D:archlibexp=''
?S:archlibexp:
?S: This variable is the same as the archlib variable, but is
?S: filename expanded at configuration time, for convenient use.
?S:.
?D:installarchlib=''
?S:installarchlib:
?S: This variable is really the same as archlibexp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?C:ARCHLIB:
?C: This variable, if defined, holds the name of the directory in
?C: which the user wants to put architecture-dependent public
?C: library files for $package.  It is most often a local directory
?C: such as /usr/local/lib.  Programs using this variable must be
?C: prepared to deal with filename expansion.  If ARCHLIB is the
?C: same as PRIVLIB, it is not defined, since presumably the
?C: program already searches PRIVLIB.
?C:.
?C:ARCHLIB_EXP:
?C: This symbol contains the ~name expanded version of ARCHLIB, to be used
?C: in programs that are not prepared to deal with ~ expansion
 at run-time.
?C:.
?H:#$d_archlib ARCHLIB "$archlib"  /**/
?H:#$d_archlib ARCHLIB_EXP "$archlibexp"  /**/
?H:.
?T: tdflt
?LINT:change prefixvar
?LINT:set archlib
?LINT:set archlibexp
?LINT:set installarchlib
: determine where public architecture dependent libraries go
set archlib archlib
eval $prefixit
: privlib default is /usr/local/lib/$package/$version
: archlib default is /usr/local/lib/$package/$version/$archname
: privlib may have an optional trailing /share.
tdflt=`echo $privlib | $sed 's,/share$,,'`
```

```
tdflt=$tdflt/$archname
case "$archlib" in
") dflt=$tdflt
 ;;
*) dflt="$archlib"
   ;;
esac
$cat <<EOM

$spackage contains architecture-dependent library files.  If you are
sharing libraries in a heterogeneous environment, you might store
these files in a separate location.  Otherwise, you can just include
them with the rest of the public library files.

EOM
?X: Force dependency on bin.U
fn=$binexp
fn=d+~
rp='Where do you want to put the public architecture-dependent libraries?'
.
 ./getfile
prefixvar=archlib
. ./setprefixvar
if $test X"$archlib" = X"$privlib"; then
 d_archlib="$undef"
else
 d_archlib="$define"
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/archlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: perlpath.U,v 3.0.1.2 1995/09/25 09:17:04 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: perlpath.U,v $
?RCS:
?RCS: Special perl5 unit -- we haven't installed perl yet.
```

```
?RCS:
?RCS: Revision 3.0.1.2  1995/09/25  09:17:04  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:33:53  ram
?RCS: patch45: can now use Loc variables since path stripping is deferred
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:32  ram
?RCS: Baseline for dist
 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this unit is to locate perl good enough to construct a #!
?X:
?MAKE:perlpath: cat Getfile Loc Myread Oldconfig initialinstalllocation \
 startperl version versionony
?MAKE: -pick add $@ %<
?Y:TOP
?S:perlpath:
?S: This variable contains the eventual value of the PERLPATH symbol,
?S: which contains the name of the perl interpreter to be used in
?S: shell scripts and in the "eval 'exec'" idiom.  This variable is
?S: not necessarily the pathname of the file containing the perl
?S: interpreter; you must append the executable extension (_exe) if
?S: it is not already present.  Note that Perl code that runs during
?S: the Perl build process cannot reference this variable, as Perl
?S: may not have been installed, or even if installed, may be a
?S: different version of Perl.
?S:.
?C:PERLPATH:
?C: This symbol contains the name of the perl interpreter to be
?C: used in shell scripts and in the "eval 'exec'" idiom.
?C:.
?H:#define PERLPATH "$perlpath"  /**/
?H:.
:
 figure best path for perl in scripts
case "$perlpath" in
")
 case "$versionony" in
 "$define") perlpath="$initialinstalllocation/perl$version";;
 *)  perlpath="$initialinstalllocation/perl";;
 esac
 case "$startperl" in
 *!*) ;;
 *)
  $cat <<EOH
```

```
I will use the "eval 'exec'" idiom to start Perl on your system.
I can use the full path of your Perl binary for this purpose, but
doing so may cause problems if you want to share those scripts and
Perl is not always in a standard place ($initialinstalllocation/perl).

EOH
  dflt="$initialinstalllocation/perl"
  rp="What path shall I use in \"eval 'exec'\"?"
  . ./myread
  perlpath="$ans"
  ;;
 esac
 ;;
esac
case "$startperl" in
*!*) ;;
*) echo "I'll use $perlpath in \"eval 'exec'\"" ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/perlpath.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_nearbyint: Inlibc
?MAKE: -pick add $@ %<
?S:d_nearbyint:
?S: This variable conditionally defines HAS_NEARBYINT if nearbyint()
?S: is available to return the integral value closest to (according to
?S: the current rounding mode) to x.
?S:.
?C:HAS_NEARBYINT:
?C: This symbol, if defined, indicates that the nearbyint routine is
?C: available to return the integral value closest to (according to
?C: the current rounding mode) to x.
?C:.
?H:#$d_nearbyint HAS_NEARBYINT  /**/
?H:.
?LINT:set d_nearbyint
: see if nearbyint exists
set nearbyint d_nearbyint
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/U/perl/d_nearbyint.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_syscallproto: Hasproto i_unistd
?MAKE: -pick add $@ %<
?S:d_syscallproto:
?S: This variable conditionally defines the HAS_SYSCALL_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the syscall() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_SYSCALL_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the syscall() function.  Otherwise, it is up
?C: to the program to supply one.  Good guesses are
?C:  extern
 int syscall(int,  ...);
?C:  extern int syscall(long, ...);
?C:.
?H:#$d_syscallproto HAS_SYSCALL_PROTO /**/
?H:.
?LINT:set d_syscallproto
: see if prototype for syscall is available
echo " "
set d_syscallproto syscall $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_syscallproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_memory.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_memory.U,v $
?RCS: Revision 3.0.1.3  1994/06/20  07:01:55  ram
?RCS: patch30: cosmetic changes
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:23:56  ram
?RCS: patch27: modified to avoid spurious Whoa warnings (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:02:25  ram
?RCS: patch23: avoid conflicts with <string.h>
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:22  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_memory: Inhdr strings cppstdin
 cppflags cppminus contains rm Setvar
?MAKE: -pick add $@ %<
?S:i_memory:
?S: This variable conditionally defines the I_MEMORY symbol, and indicates
?S: whether a C program should include <memory.h>.
?S:.
?C:I_MEMORY:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <memory.h>.
?C:.
?H:#$i_memory I_MEMORY  /**/
?H:.
?LINT:set i_memory
?X:
?X: Unfortunately, the definitions of memory functions sometimes
?X: conflict with those in <string.h>.  We'll assume that if
?X: <string.h> contains memcpy, then we don't need memory.h
?X:
: see if memory.h is available.
val=''
set memory.h val
eval $inhdr

: See if it conflicts with string.h
case "$val" in
$define)
 case "$strings" in
 '') ;;
 *)
  $cppstdin $cppflags $cppminus < $strings > mem.h
```

```
  if $contains 'memcpy' mem.h >/dev/null 2>&1; then
   echo " "
   echo "We won't be including <memory.h>."
   val="$undef"
  fi
  $rm -f mem.h
  ;;
 esac
esac
set i_memory
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_memory.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: fpu.U,v 3.0 1993/08/18 12:08:10 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: fpu.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:10  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?LINT: empty
?X:?MAKE:fpu: test cat cc Myread
?X:?MAKE: -pick add $@ %<
?X:?S:fpu (fpunit):
?X:?S: Set to be the compile flag for the local floating point unit.
?X:?S:.
?X:?C:FPU (FPUNIT):
?X:?C: String containing the flags for the local floating point unit.
?X:?C:.
?X:?H:#define FPU "$fpu" /**/
?X:?H:.
?X:: see what floating point compile flags should be used.
?X:fpu="
?X:if
 $test -r /dev/fpa; then
?X: $cat>fpa.c << GOOP
?X: main(){return(1);}
```

```
?X:GOOP
?X: $cc -ffpa -o fpa fpa.c
?X: fpa > fpa.out 2>&1
?X: if $test ! -s fpa.out; then
?X:  dflt='y'
?X:  $cat <<'EOM'
?X:
?X:You seem to have a sun fpa...  I can compile the code to use the fpa but it will
?X:mean that the code can ONLY run on a machine with a fpa...
?X:
?X:EOM
?X:  rp="Should I compile for fpa?"
?X:  . ./myread
?X:  if $test $ans = "n"; then
?X:   fpu=''
?X:  else
?X:   fpu='-ffpa'
?X:  fi
?X: else
?X:  $cat <<'EOM'
?X:
?X:You have the fpa device but I can't seem to use it.  Maybe you should talk to
?X:your sysadmin about this.  For now, I am not going to compile it in.
?X:
?X:EOM
?X: fi
?X:fi
?X:if $test "$fpu" = ''; then
?X: if $test -r /usr/etc/mc68881version; then
?X:  dflt='y'
?X:  $cat <<'EOM'
?X:
?X:There also seems to be the pieces for a 68881.  If I compile this in, it will
?X:work on almost all Sun 3's except for a few Sun-3/50s without a 68881...
?X:
?X:EOM
?X:  rp="Should
 I compile for a 68881?"
?X:  . ./myread
?X:  if $test $ans = "y"; then
?X:   fpu='-f68881'
?X:  fi
?X: fi
?X:fi
?X:
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/U/nullified/fpu.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
?MAKE:run to from targetarch usecrosscompile: src awk cat grep test rm \
 echo sed mkdir cp touch chmod
?MAKE: -pick add $@ %<
?Y:TOP
?S:usecrosscompile:
?S: This variable conditionally defines the USE_CROSS_COMPILE symbol,
?S: and indicates that our package has been cross-compiled.
?S:.
?S:run:
?S: This variable contains the command used by Configure
?S: to copy and execute a cross-compiled executable in the
?S: target host.  Useful and available only during
 the build.
?S: Empty string '' if not cross-compiling.
?S:.
?S:from:
?S: This variable contains the command used by Configure
?S: to copy files from the target host.  Useful and available
?S: only during the build.
?S: The string ':' if not cross-compiling.
?S:.
?S:to:
?S: This variable contains the command used by Configure
?S: to copy to from the target host.  Useful and available
?S: only during the build.
?S: The string ':' if not cross-compiling.
?S:.
?S:targetarch:
?S: If cross-compiling, this variable contains the target architecture.
?S: If not, this will be empty.
?S:.
?C:USE_CROSS_COMPILE:
?C: This symbol, if defined, indicates that the package is being
```

```
?C: cross-compiled.
?C:.
?C:CROSS_TARGET_ARCH:
?C: This symbol, if defined, indicates the target architecture
?C: the package has been cross-compiled to.
?C: Undefined if not a cross-compile.
?C:.
?H:?usecrosscompile:#ifndef USE_CROSS_COMPILE
?H:?usecrosscompile:#$usecrosscompile USE_CROSS_COMPILE /**/
?H:?usecrosscompile:#define
 CROSS_TARGET_ARCH "$targetarch" /**/
?H:?usecrosscompile:#endif
?H:.
?T:croak pwd exe f q i j cwd
?LINT:extern usecrosscompile
?LINT:extern cc
?LINT:extern usrinc
?LINT:change usrinc
?LINT:change ar
?LINT:change nm
?LINT:change ranlib
?LINT:extern targethost
?LINT:extern targetdir
?LINT:change targetdir
?LINT:extern targetuser
?LINT:change targetuser
?LINT:extern targetrun
?LINT:extern targetfrom
?LINT:extern targetto
?LINT:extern targetmkdir
?LINT:change targetrun
?LINT:change targetfrom
?LINT:change targetto
?LINT:change targetmkdir
?LINT:extern incpth
?LINT:extern libpth
?LINT:change incpth
?LINT:change libpth
?LINT:extern locincpth
?LINT:extern loclibpth
?LINT:change locincpth
?LINT:change loclibpth
?LINT:extern TMPDIR
: setup for possible cross-compilation
run=''
to=:
from=:
usecrosscompile='undef'
```

```
targetarch=''
case "$usecrosscompile" in
$define|true|[yY]*)
@if { test -d ../Cross }
?X:
?X: Cross-compilation is enabled when there is a 'Cross' directory found
?X: at the root
 of the package.  This directory must contain the following
?X: entries for defining the cross-compilation process:
?X:
?X: FIXME FIXME
?X: WE MUST DISTINGUISH BETWEEN LOCAL cross-compiling AND REMOTE ONE
?X: ACTUALLY, REMOTE COMPILATION SHOULD BE CONFIGURED INTERACTIVELY
?X: IT WILL COPY ALL THE FILES FROM THE MANIFEST DOWN TO THE REMOTE DIR...
?X: (and copy things like 'mkdep', etc...)
?X:
 $echo "Cross-compiling..."
 croak=''
 case "$cc" in
 *-*-gcc)
?X: A cross-compiling gcc, probably.
    targetarch=`$echo $cc|$sed 's/-gcc$//'`
    ar=$targetarch-ar
?X: leave out ld, choosing it is more complex
    nm=$targetarch-nm
    ranlib=$targetarch-ranlib
    $echo 'extern int foo;' > try.c
    set X `$cc -v -E try.c 2>&1 | \
  $awk '/^#include </,/^End of search /'|$grep '/include'`
    shift
  if $test $# -gt 0; then
        incpth="$incpth $*"
  incpth="`$echo $incpth|$sed 's/^ //'`"
  echo "Guessing incpth '$incpth'." >&4
  for i in $*; do
   j="`$echo $i|$sed 's,/include$,/lib,'`"
   if
 $test -d $j; then
    libpth="$libpth $j"
   fi
  done
  libpth="`$echo $libpth|$sed 's/^ //'`"
  echo "Guessing libpth '$libpth'." >&4
    fi
    $rm -f try.c
    ;;
 esac
 case "$targetarch" in
```

```
") echo "Targetarch not defined." >&4; croak=y ;;
*)  echo "Using targetarch $targetarch." >&4 ;;
esac
case "$incpth" in
") echo "Incpth not defined." >&4; croak=y ;;
*)  echo "Using incpth '$incpth'." >&4 ;;
esac
case "$libpth" in
") echo "Libpth not defined." >&4; croak=y ;;
*)  echo "Using libpth '$libpth'." >&4 ;;
esac
case "$usrinc" in
")
 for i in $incpth; do
  if $test -f $i/errno.h -a -f $i/stdio.h -a -f $i/time.h; then
   usrinc=$i
   echo "Guessing usrinc $usrinc." >&4
   break
  fi
    done
    case "$usrinc" in
    ") echo "Usrinc not defined." >&4; croak=y ;;
    esac
 ;;
*)  echo "Using usrinc $usrinc." >&4 ;;
esac
case "$targethost" in
") echo "Targethost not defined." >&4; croak=y ;;
*)  echo "Using targethost $targethost."
>&4
esac
locincpth=' '
loclibpth=' '
case "$croak" in
y) echo "Cannot continue, aborting." >&4; exit 1 ;;
esac
case "$src" in
/*) run=$src/Cross/run
    targetmkdir=$src/Cross/mkdir
    to=$src/Cross/to
    from=$src/Cross/from
    ;;
*)  pwd=`$test -f ../Configure & cd ..; pwd`
    run=$pwd/Cross/run
    targetmkdir=$pwd/Cross/mkdir
    to=$pwd/Cross/to
    from=$pwd/Cross/from
    ;;
```

```
 esac
 case "$targetrun" in
 ") targetrun=ssh ;;
 esac
 case "$targetto" in
 ") targetto=scp ;;
 esac
 case "$targetfrom" in
 ") targetfrom=scp ;;
 esac
 run=$run-$targetrun
 to=$to-$targetto
 from=$from-$targetfrom
 case "$targetdir" in
 ")
  targetdir="${TMPDIR:-/tmp}"
  echo "Guessing targetdir $targetdir." >&4
  ;;
 esac
 case "$targetuser" in
 ")
  targetuser=root
  echo "Guessing targetuser $targetuser." >&4
  ;;
 esac
 case "$targetfrom" in
 scp) q=-q ;;
 *) q=" ;;
 esac
 case "$targetrun" in
 ssh|rsh)
  $cat >$run <<EOF
#!/bin/sh
case "\$1" in
-cwd)
 shift
 cwd=\$1
  shift
 ;;
esac
case "\$cwd" in
") cwd=$targetdir ;;
esac
exe=\$1
shift
if $test ! -f \$exe.xok; then
 $to \$exe
 $touch \$exe.xok
```

```
fi
$targetrun -l $targetuser $targethost "cd \$cwd && ./\$exe \$@"
EOF
  ;;
 *)  echo "Unknown targetrun '$targetrun'" >&4
     exit 1
     ;;
 esac
 case "$targetmkdir" in
 */Cross/mkdir)
  $cat >$targetmkdir <<EOF
#!/bin/sh
$targetrun -l $targetuser $targethost "mkdir -p \$@"
EOF
     $chmod a+rx $targetmkdir
     ;;
 *)  echo "Unknown targetmkdir '$targetmkdir'" >&4
     exit 1
     ;;
 esac
 case "$targetto" in
 scp|rcp)
     $cat >$to <<EOF
#!/bin/sh
for f in \$@
do
 case "\$f" in
 /*)
   $targetmkdir \`dirname \$f\`
   $targetto $q \$f $targetuser@$targethost:\$f            || exit 1
   ;;
 *)
   $targetmkdir $targetdir/\`dirname \$f\`
   $targetto $q \$f $targetuser@$targethost:$targetdir/\$f || exit 1
   ;;
 esac
done
exit 0
EOF
     ;;
 cp) $cat >$to <<EOF
#!/bin/sh
for f in \$@
do
 case "\$f" in
 /*)
   $mkdir -p $targetdir/\`dirname
```

```
 \$f\`
   $cp \$f $targetdir/\$f || exit 1
   ;;
 *)
   $targetmkdir $targetdir/\`dirname \$f\`
   $cp \$f $targetdir/\$f || exit 1
   ;;
 esac
done
exit 0
EOF
     ;;
 *)  echo "Unknown targetto '$targetto'" >&4
     exit 1
     ;;
 esac
 case "$targetfrom" in
 scp|rcp)
   $cat >$from <<EOF
#!/bin/sh
for f in \$@
do
 $rm -f \$f
 $targetfrom $q $targetuser@$targethost:$targetdir/\$f . || exit 1
done
exit 0
EOF
     ;;
 cp) $cat >$from <<EOF
#!/bin/sh
for f in \$@
do
 $rm -f \$f
 cp $targetdir/\$f . || exit 1
done
exit 0
EOF
     ;;
 *)  echo "Unknown targetfrom '$targetfrom'" >&4
     exit 1
     ;;
 esac
 if $test ! -f $run; then
     echo "Target 'run' script '$run' not found." >&4
 else
     $chmod a+rx $run
 fi
 if $test ! -f $to; then
```

```
    echo "Target 'to' script '$to' not found." >&4
 else
    $chmod a+rx $to
 fi
 if $test ! -f $from; then
    echo "Target 'from' script '$from' not found." >&4
 else
    $chmod a+rx $from
 fi
 if $test ! -f $run -o ! -f $to -o !
 -f $from; then
    exit 1
 fi
 $cat >&4 <<EOF
Using '$run' for remote execution,
and '$from' and '$to'
for remote file transfer.
EOF
@else
 echo "Cross-compilation is not supported for this package." >&4
 exit 1
@end
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Cross.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_shadow.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_prot: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_prot:
?S: This variable conditionally defines the I_PROT symbol, and indicates
?S: whether a C program should include <prot.h>.
?S:.
?C:I_PROT:
?C: This symbol, if defined, indicates that <prot.h> exists and
?C: should be included.
?C:.
?H:#$i_prot I_PROT  /**/
```

```
?H:.
?LINT:set i_prot
: see if this is a prot.h system
set prot.h i_prot
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_prot.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fsetpos.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_fsetpos.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  06:57:38  ram
?RCS: patch30: created
?RCS:
?MAKE:d_fsetpos: Inlibc
?MAKE: -pick add $@ %<
?S:d_fsetpos:
?S: This variable conditionally defines HAS_FSETPOS if fsetpos() is
?S: available to set the file position indicator.
?S:.
?C:HAS_FSETPOS:
?C: This symbol, if defined, indicates that the fsetpos routine is
?C: available to set the file position indicator, similar to fseek().
?C:.
?H:#$d_fsetpos
 HAS_FSETPOS /**/
?H:.
?LINT:set d_fsetpos
: see if fsetpos exists
set fsetpos d_fsetpos
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_fsetpos.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_seteuid.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_seteuid.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_seteuid: Inlibc
?MAKE: -pick add $@ %<
?S:d_seteuid:
?S: This variable conditionally defines the HAS_SETEUID symbol, which
?S: indicates to the C program that the seteuid() routine is available
?S: to change the effective uid of the current program.
?S:.
?C:HAS_SETEUID (SETEUID):
?C: This symbol, if defined, indicates that the seteuid
 routine is available
?C: to change the effective uid of the current program.
?C:.
?H:#$d_seteuid HAS_SETEUID  /**/
?H:.
?LINT:set d_seteuid
: see if seteuid exists
set seteuid d_seteuid
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_seteuid.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpwent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_getpwent_r getpwent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_pwd extern_C
```

```
?MAKE: -pick add $@ %<
?S:d_getpwent_r:
?S: This variable conditionally defines the HAS_GETPWENT_R symbol,
?S: which indicates to the C program that the getpwent_r()
?S: routine is available.
?S:.
?S:getpwent_r_proto:
?S: This variable encodes the prototype of getpwent_r.
?S: It is zero if d_getpwent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getpwent_r
?S: is defined.
?S:.
?C:HAS_GETPWENT_R:
?C: This symbol, if defined, indicates that the getpwent_r routine
?C: is available to
 getpwent re-entrantly.
?C:.
?C:GETPWENT_R_PROTO:
?C: This symbol encodes the prototype of getpwent_r.
?C: It is zero if d_getpwent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_getpwent_r
?C: is defined.
?C:.
?H:#$d_getpwent_r HAS_GETPWENT_R /**/
?H:#define GETPWENT_R_PROTO $getpwent_r_proto /**/
?H:.
?T:try hdrs d_getpwent_r_proto
: see if getpwent_r exists
set getpwent_r d_getpwent_r
eval $inlibc
case "$d_getpwent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_pwd pwd.h"
 case "$d_getpwent_r_proto:$usethreads" in
 ":define") d_getpwent_r_proto=define
  set d_getpwent_r_proto getpwent_r $hdrs
  eval $hasproto ;;
 *) ;;
 esac
 case "$d_getpwent_r_proto" in
 define)
 case "$getpwent_r_proto" in
 "|0) try='int getpwent_r(struct passwd*, char*, size_t, struct passwd**);'
 ./protochk "$extern_C $try" $hdrs && getpwent_r_proto=I_SBWR ;;
 esac
 case "$getpwent_r_proto" in
 "|0) try='int getpwent_r(struct passwd*, char*, int, struct passwd**);'
 ./protochk
```

```
 "$extern_C $try" $hdrs && getpwent_r_proto=I_SBIR ;;
 esac
 case "$getpwent_r_proto" in
"|0) try='struct passwd* getpwent_r(struct passwd*, char*, size_t);'
./protochk "$extern_C $try" $hdrs && getpwent_r_proto=S_SBW ;;
 esac
 case "$getpwent_r_proto" in
"|0) try='struct passwd* getpwent_r(struct passwd*, char*, int);'
./protochk "$extern_C $try" $hdrs && getpwent_r_proto=S_SBI ;;
 esac
 case "$getpwent_r_proto" in
"|0) try='int getpwent_r(struct passwd*, char*, int);'
./protochk "$extern_C $try" $hdrs && getpwent_r_proto=I_SBI ;;
 esac
 case "$getpwent_r_proto" in
"|0) try='int getpwent_r(struct passwd*, char*, int, FILE**);'
./protochk "$extern_C $try" $hdrs && getpwent_r_proto=I_SBIH ;;
 esac
 case "$getpwent_r_proto" in
"|0) d_getpwent_r=undef
  getpwent_r_proto=0
  echo "Disabling getpwent_r, cannot determine prototype." >&4 ;;
* ) case "$getpwent_r_proto" in
  REENTRANT_PROTO*) ;;
  *) getpwent_r_proto="REENTRANT_PROTO_$getpwent_r_proto" ;;
  esac
  echo
 "Prototype: $try" ;;
 esac
 ;;
 *) case "$usethreads" in
  define) echo "getpwent_r has no prototype, not using it." >&4 ;;
  esac
  d_getpwent_r=undef
  getpwent_r_proto=0
  ;;
 esac
 ;;
*) getpwent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getpwent_r.U
No license file was found, but licenses were detected in source scan.

?RCS: Id

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cf_who.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:28:50  ram
?RCS: patch61: new computation method avoiding use of temporary file
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:42:34  ram
?RCS: patch23: login name now computed the hard way
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:32  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Oldconfig dependency is there to ensure computation occurs after old values
?X: from config.sh have been loaded, so that we can supersede them.
?X:
?MAKE:cf_time
 cf_by: date Oldconfig
?MAKE: -pick add $@ %<
?S:cf_time:
?S: Holds the output of the "date" command when the configuration file was
?S: produced. This is used to tag both config.sh and config_h.SH.
?S:.
?S:cf_by:
?S: Login name of the person who ran the Configure script and answered the
?S: questions. This is used to tag both config.sh and config_h.SH.
?S:.
?LINT:change LC_ALL LANGUAGE
: who configured the system
?X: Ensure English date -- Jarkko Hietaniemi
cf_time=`LC_ALL=C; LANGUAGE=C; export LC_ALL; export LANGUAGE; $date 2>&1`
?X:
?X: Leave a white space between first two '(' for ksh. The sub-shell is needed
?X: on some machines to avoid the error message when logname is not found; e.g.
?X: on SUN-OS 3.2, (logname || whoami) would not execute whoami if logname was
?X: not found. Sigh!
?X:
?X: Convex had a broken logname executable which returned a non-zero status,
?X: and that broke the previous:
?X:   cf_by=`( (logname) 2>/dev/null || whoami) 2>&1`
?X: Switch to emergency
```

```
 mode... -- RAM, 19/04/94
?X:
?X: Parentheses needed to avoid error message if the program does not exist.
?X: Uses case instead of $test so it can be put before $test is defined.
?X: Don't redirect to a file because on Ultrix (under script?) logname
?X: outputs a blank line first.  This method will apparently work.
case "$cf_by" in
"")
 cf_by=`(logname) 2>/dev/null`
 case "$cf_by" in
 "")
  cf_by=`(whoami) 2>/dev/null`
  case "$cf_by" in
  "") cf_by=unknown ;;
  esac ;;
 esac ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/cf_who.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_mblen.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_mblen.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:09:40  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_mblen: Inlibc
?MAKE: -pick add $@ %<
?S:d_mblen:
?S: This variable conditionally defines the HAS_MBLEN symbol, which
?S: indicates to the C program that the mblen() routine is available
?S: to find the number of bytes in a multibyte character.
?S:.
?C:HAS_MBLEN:
?C: This
```

```
 symbol, if defined, indicates that the mblen routine is available
?C: to find the number of bytes in a multibyte character.
?C:.
?H:#$d_mblen HAS_MBLEN  /**/
?H:.
?LINT:set d_mblen
: see if mblen exists
set mblen d_mblen
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_mblen.U
No license file was found, but licenses were detected in source scan.

```
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:gidsize: Myread Typedef gidtype Compile run i_stdlib
?MAKE: -pick add $@ %<
?S:gidsize:
?S: This variable contains the size of a gidtype in bytes.
?S:.
?C:Gid_t_size:
?C: This symbol holds the size of a Gid_t in bytes.
?C:.
?H:#define Gid_t_size $gidsize  /* GID size */
?H:.
?T:yyy zzz
?F:!try
: Check the size of GID
echo " "
case "$gidtype" in
*_t) zzz="$gidtype" ;;
*)   zzz="gid"  ;;
esac
echo "Checking the size of $zzz..." >&4
cat > try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
```

```
#include
 <stdlib.h>
#endif
int main() {
   printf("%d\n", (int)sizeof($gidtype));
   exit(0);
}
EOCP
set try
if eval $compile_ok; then
 yyy=`$run ./try`
 case "$yyy" in
 ") gidsize=4
  echo "(I can't execute the test program--guessing $gidsize.)" >&4
  ;;
 *) gidsize=$yyy
  echo "Your $zzz is $gidsize bytes long."
  ;;
 esac
else
 gidsize=4
 echo "(I can't compile the test program--guessing $gidsize.)" >&4
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/gidsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: netdbtype.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: netdbtype.U,v $
?RCS:
?MAKE:netdb_host_type netdb_hlen_type netdb_name_type netdb_net_type: \
 Protochk Oldconfig Myread cat \
 d_gethbyaddr d_gethbyname d_getnbyaddr \
 i_niin i_netdb i_unistd d_socket sizetype extern_C
?MAKE: -pick add $@ %<
?S:netdb_host_type:
?S: This variable holds the type used for the 1st argument to
?S: gethostbyaddr().  Usually, this is char * or void *,  possibly
```

```
?S: with or without a const prefix.
?S: This is only useful if you have gethostbyaddr(), naturally.
?S:.
?S:netdb_hlen_type:
?S: This variable holds the type used for the 2nd argument to
?S: gethostbyaddr().  Usually,
 this is int or size_t or unsigned.
?S: This is only useful if you have gethostbyaddr(), naturally.
?S:.
?S:netdb_name_type:
?S: This variable holds the type used for the argument to
?S: gethostbyname().  Usually, this is char * or const char *.
?S: This is only useful if you have gethostbyname(), naturally.
?S:.
?S:netdb_net_type:
?S: This variable holds the type used for the 1st argument to
?S: getnetbyaddr().  Usually, this is int or long.
?S: This is only useful if you have getnetbyaddr(), naturally.
?S:.
?C:Netdb_host_t:
?C: This symbol holds the type used for the 1st argument
?C: to gethostbyaddr().
?C:.
?C:Netdb_hlen_t:
?C: This symbol holds the type used for the 2nd argument
?C: to gethostbyaddr().
?C:.
?C:Netdb_name_t:
?C: This symbol holds the type used for the argument to
?C: gethostbyname().
?C:.
?C:Netdb_net_t:
?C: This symbol holds the type used for the 1st argument to
?C: getnetbyaddr().
?C:.
?H:#define Netdb_host_t  $netdb_host_type /**/
?H:#define Netdb_hlen_t  $netdb_hlen_type
 /**/
?H:#define Netdb_name_t  $netdb_name_type /**/
?H:#define Netdb_net_t  $netdb_net_type /**/
?H:.
?T:xxx yyy try hdrs
@if netdb_host_type || Netdb_host_t || netdb_hlen_type || Netdb_hlen_t
: check for type of arguments to gethostbyaddr.
if test "X$netdb_host_type" = X -o "X$netdb_hlen_type" = X; then
 case "$d_gethbyaddr" in
 $define)
  $cat <<EOM
```

```
Checking to see what type of arguments are accepted by gethostbyaddr().
EOM
  hdrs="$define sys/types.h
   $d_socket sys/socket.h
   $i_niin netinet/in.h
   $i_netdb netdb.h
   $i_unistd unistd.h"
  : The first arg can 'char *' or 'void *'
  : The second arg is some of integral type
  for xxx in in_addr_t 'const void *' 'const char *' 'void *' 'char *'; do
   for yyy in size_t long int; do
    case "$netdb_host_type" in
    ") try="$extern_C struct hostent *gethostbyaddr($xxx, $yyy, int);"
     if ./protochk "$try" $hdrs; then
      echo "Your system accepts $xxx for the first arg."
      echo "...and $yyy for the second arg."
      netdb_host_type="$xxx"
      netdb_hlen_type="$yyy"
     fi
     ;;
    esac
   done
  done
  :
 In case none of those worked, prompt the user.
  case "$netdb_host_type" in
  ") rp='What is the type for the 1st argument to gethostbyaddr?'
   dflt='char *'
   . ./myread
   netdb_host_type=$ans
   rp='What is the type for the 2nd argument to gethostbyaddr?'
   dflt="$sizetype"
   . ./myread
   netdb_hlen_type=$ans
   ;;
  esac
  ;;
 *) : no gethostbyaddr, so pick harmless defaults
  netdb_host_type='char *'
  netdb_hlen_type="$sizetype"
  ;;
 esac
 # Remove the "const" if needed. -- but then we'll have a
 # prototype clash!
 # netdb_host_type=`echo "$netdb_host_type" | sed 's/^const //'`
fi
@end
```

```
@if netdb_name_type || Netdb_name_t
: check for type of argument to gethostbyname.
if test "X$netdb_name_type" = X ; then
 case "$d_gethbyname" in
 $define)
  $cat <<EOM

Checking to see what type of argument is accepted by gethostbyname().
EOM
  hdrs="$define sys/types.h
   $d_socket sys/socket.h
   $i_niin
 netinet/in.h
   $i_netdb netdb.h
   $i_unistd unistd.h"
  for xxx in "const char *" "char *"; do
   case "$netdb_name_type" in
   ") try="$extern_C struct hostent *gethostbyname($xxx);"
    if ./protochk "$try" $hdrs; then
     echo "Your system accepts $xxx."
     netdb_name_type="$xxx"
    fi
    ;;
   esac
  done
  : In case none of those worked, prompt the user.
  case "$netdb_name_type" in
  ") rp='What is the type for the 1st argument to gethostbyname?'
   dflt='char *'
   . ./myread
   netdb_name_type=$ans
   ;;
  esac
  ;;
 *) : no gethostbyname, so pick harmless default
  netdb_name_type='char *'
  ;;
 esac
fi
@end

@if netdb_net_type || Netdb_net_t
: check for type of 1st argument to getnetbyaddr.
if test "X$netdb_net_type" = X ; then
 case "$d_getnbyaddr" in
 $define)
  $cat <<EOM
```

```
Checking to see what type of 1st argument is accepted by getnetbyaddr().
EOM
  hdrs="$define sys/types.h
   $d_socket sys/socket.h
   $i_niin netinet/in.h
   $i_netdb netdb.h
   $i_unistd
 unistd.h"
  for xxx in in_addr_t "unsigned long" long "unsigned int" int; do
   case "$netdb_net_type" in
   ") try="$extern_C struct netent *getnetbyaddr($xxx, int);"
    if ./protochk "$try" $hdrs; then
     echo "Your system accepts $xxx."
     netdb_net_type="$xxx"
    fi
    ;;
   esac
  done
  : In case none of those worked, prompt the user.
  case "$netdb_net_type" in
  ") rp='What is the type for the 1st argument to getnetbyaddr?'
   dflt='long'
   . ./myread
   netdb_net_type=$ans
   ;;
  esac
  ;;
 *) : no getnetbyaddr, so pick harmless default
  netdb_net_type='long'
  ;;
 esac
fi
@end
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/netdbtype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_crypt.U,v $
?RCS:
?RCS: Copyright (c) 2002 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_crypt: Inhdr Hasfield
```

```
?MAKE: -pick add $@ %<
?S:i_crypt:
?S: This variable conditionally defines the I_CRYPT symbol, and indicates
?S: whether a C program should include <crypt.h>.
?S:.
?C:I_CRYPT:
?C: This symbol, if defined, indicates that <crypt.h> exists and
?C: should be included.
?C:.
?H:#$i_crypt I_CRYPT  /**/
?H:.
?LINT:set i_crypt
: see if this is a crypt.h system
set crypt.h i_crypt
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_crypt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_setpwent.U,v $
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: d_setpwent.U,v $
?RCS:
?MAKE:d_setpwent: Inlibc
?MAKE: -pick add $@ %<
?S:d_setpwent:
?S: This variable conditionally defines the HAS_SETPWENT symbol, which
?S: indicates to the C program that the setpwent() routine is available
?S: for initializing sequential access to the passwd database.
?S:.
?C:HAS_SETPWENT:
?C: This symbol, if defined, indicates that the setpwent routine is
?C: available for initializing sequential access of the passwd database.
?C:.
?H:#$d_setpwent HAS_SETPWENT  /**/
?H:.
?LINT:set d_setpwent
: see if setpwent exists
set setpwent d_setpwent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_setpwent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:multiarch: osname
?MAKE: -pick add $@ %<
?S:multiarch:
?S: This variable conditionally defines the MULTIARCH symbol
?S: which signifies the presence of multiplatform files.
?S: This is normally set by hints files.
?S:.
?C:MULTIARCH:
?C: This symbol, if defined, signifies that the build
?C: process will produce some binary files that are going to be
?C: used in a cross-platform environment.  This is the case for
?C: example with the NeXT "fat" binaries that contain executables
?C: for
 several CPUs.
?C:.
?H:#$multiarch MULTIARCH  /**/
?H:.
: Check if is a multiplatform env
case "$osname" in
darwin) multiarch="$define" ;;
esac
case "$multiarch" in
"|[nN]*) multiarch="$undef" ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/a_dvisory/multiarch.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getlogin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
```

```
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?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_getlogin.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:41  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_getlogin: Inlibc
?MAKE: -pick add $@ %<
?S:d_getlogin:
?S: This variable conditionally defines the HAS_GETLOGIN symbol, which
?S: indicates to the C program that the getlogin() routine is available
?S: to get the login name.
?S:.
?C:HAS_GETLOGIN :
?C: This symbol,
 if defined, indicates that the getlogin routine is
?C: available to get the login name.
?C:.
?H:#$d_getlogin HAS_GETLOGIN  /**/
?H:.
?LINT:set d_getlogin
: see if getlogin exists
set getlogin d_getlogin
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getlogin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: d_memchr.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:32  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_memchr: Inlibc
?MAKE: -pick add $@ %<
?S:d_memchr:
?S: This variable conditionally defines the HAS_MEMCHR symbol, which
?S: indicates to the C program that the memchr() routine is available
?S: to scan a block of memory for a character.
?S:.
?C:HAS_MEMCHR:
?C: This symbol, if defined, indicates that the memchr routine is available
?C: to scan a block of memory for a character.
  If undefined, roll your own.
?C:.
?H:#$d_memchr HAS_MEMCHR  /**/
?H:.
?LINT:set d_memchr
: see if memchr exists
set memchr d_memchr
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_memchr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysmman.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:11:20  ram
?RCS: patch16: created
?RCS:
?X:
?X: Look wether <sys/mman.h> needs to be included.
?X:
?MAKE:i_sysmman: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysmman:
```

```
?S: This variable conditionally defines the I_SYS_MMAN symbol,
?S: and indicates whether a C program should include <sys/mman.h>.
?S:.
?C:I_SYS_MMAN:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/mman.h>.
?C:.
?H:#$i_sysmman I_SYS_MMAN  /**/
?H:.
?LINT:set
 i_sysmman
: see if sys/mman.h has to be included
set sys/mman.h i_sysmman
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sysmman.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_stddef.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_stddef.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:27  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_stddef: Inhdr
?MAKE: -pick add $@ %<
?S:i_stddef:
?S: This variable conditionally defines the I_STDDEF symbol, which
?S: indicates to the C program that <stddef.h> exists and should
?S: be included.
?S:.
?C:I_STDDEF:
?C: This symbol, if defined, indicates that <stddef.h> exists and should
?C: be included.
?C:.
?H:#$i_stddef I_STDDEF /**/
?H:.
?LINT:set
```

```
 i_stddef
: see if stddef is available
set stddef.h i_stddef
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_stddef.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_shmget.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_shmget.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:20  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_shmget: Inlibc
?MAKE: -pick add $@ %<
?S:d_shmget:
?S: This variable conditionally defines the HAS_SHMGET symbol, which
?S: indicates to the C program that the shmget() routine is available.
?S:.
?C:HAS_SHMGET:
?C: This symbol, if defined, indicates that the shmget() routine is
?C: available to request a shared memory segment from
 the kernel.
?C:.
?H:#$d_shmget HAS_SHMGET  /**/
?H:.
?LINT:set d_shmget
: see if shmget exists
set shmget d_shmget
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_shmget.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: usenm.U,v 3.0.1.1 1997/02/28 16:26:40 ram Exp $
```

```
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: usenm.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:26:40  ram
?RCS: patch61: don't use nm with the GNU C library
?RCS: patch61: added support for Linux shared libs
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:usenm runnm nm_opt nm_so_opt: cat test Myread Oldconfig myuname grep \
 nm d_gnulibc osname egrep rsrc
?MAKE: -pick add $@ %<
?S:usenm:
?S: This variable contains 'true' or 'false' depending
 whether the
?S: nm extraction is wanted or not.
?S:.
?S:runnm:
?S: This variable contains 'true' or 'false' depending whether the
?S: nm extraction should be performed or not, according to the value
?S: of usenm and the flags on the Configure command line.
?S:.
?S:nm_opt:
?S: This variable holds the options that may be necessary for nm.
?S:.
?S:nm_so_opt:
?S: This variable holds the options that may be necessary for nm
?S: to work on a shared library but that can not be used on an
?S: archive library.  Currently, this is only used by Linux, where
?S: nm --dynamic is *required* to get symbols from an ELF library which
?S: has been stripped, but nm --dynamic is *fatal* on an archive library.
?S: Maybe Linux should just always set usenm=false.
?S:.
: see if nm is to be used to determine whether a symbol is defined or not
?X: If there is enough inquiries, it might be worth to wait for the nm
?X: extraction. Otherwise, the C compilations might be a better deal.
?X:
?X: Don't bother if we're
 using GNU libc -- skimo
?LINT:extern PASE
```

```
case "$usenm" in
")
 dflt="
 case "$d_gnulibc" in
 "$define")
  echo " "
  echo "nm probably won't work on the GNU C Library." >&4
  dflt=n
  ;;
 esac
 case "$dflt" in
 ")
  if $test "$osname" = aix -a "X$PASE" != "Xdefine" -a ! -f /lib/syscalls.exp; then
   echo " "
   echo "Whoops!  This is an AIX system without /lib/syscalls.exp!" >&4
   echo "'nm' won't be sufficient on this system." >&4
   dflt=n
  fi
  ;;
 esac
 case "$dflt" in
 ") dflt=`$egrep 'inlibc|csym' $rsrc/Configure | wc -l 2>/dev/null`
  if $test $dflt -gt 20; then
   dflt=y
  else
   dflt=n
  fi
  ;;
 esac
 ;;
*)
 case "$usenm" in
 true|$define) dflt=y;;
 *) dflt=n;;
 esac
 ;;
esac
$cat <<EOM

I can use $nm to extract the symbols from your C libraries. This
is a time consuming task which may generate huge output on the disk (up
to 3 megabytes) but that should make the symbols extraction faster. The
alternative is to skip the 'nm' extraction part and to compile a small
test
 program instead to determine whether each symbol is present. If
you have a fast C compiler and/or if your 'nm' output cannot be parsed,
this may be the best solution.
```

```
You probably shouldn't let me use 'nm' if you are using the GNU C Library.

EOM
rp="Shall I use $nm to extract C symbols from the libraries?"
. ./myread
case "$ans" in
[Nn]*) usenm=false;;
*) usenm=true;;
esac

?X: Name extraction is to be run if 'nm' usage is wanted and if no -r flag
?X: was provided to configure (in which case we simply re-use the previous
?X: values).
runnm=$usenm
case "$reuseval" in
true) runnm=false;;
esac

: nm options which may be necessary
case "$nm_opt" in
") if $test -f /mach_boot; then
  nm_opt=" # Mach
 elif $test -d /usr/ccs/lib; then
  nm_opt='-p' # Solaris (and SunOS?)
 elif $test -f /dgux; then
  nm_opt='-p' # DG-UX
 elif $test -f /lib64/rld; then
  nm_opt='-p' # 64-bit Irix
 else
  nm_opt="
 fi;;
esac

: nm options which may be necessary for shared libraries but illegal
: for archive
 libraries.  Thank you, Linux.
case "$nm_so_opt" in
") case "$myuname" in
 *linux*|gnu*)
  if $nm --help | $grep 'dynamic' > /dev/null 2>&1; then
   nm_so_opt='--dynamic'
  fi
  ;;
 esac
 ;;
esac

Found in path(s):
```

* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/usenm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_locconv.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_locconv.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:14:11  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_locconv: Inlibc
?MAKE: -pick add $@ %<
?S:d_locconv:
?S: This variable conditionally defines HAS_LOCALECONV if localeconv() is
?S: available for numeric and monetary formatting conventions.
?S:.
?C:HAS_LOCALECONV:
?C: This symbol, if defined, indicates that the localeconv
 routine is
?C: available for numeric and monetary formatting conventions.
?C:.
?H:#$d_locconv HAS_LOCALECONV /**/
?H:.
?LINT:set d_locconv
: see if localeconv exists
set localeconv d_locconv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_locconv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysresrc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_sysresrc.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:34  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Look wether <sys/resource.h> needs to be included
?X:
?MAKE:i_sysresrc: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysresrc:
?S: This variable conditionally defines the I_SYS_RESOURCE symbol,
?S: and indicates whether a C program should include <sys/resource.h>.
?S:.
?C:I_SYS_RESOURCE (I_SYSRESOURCE):
?C: This symbol, if defined, indicates
 to the C program that it should
?C: include <sys/resource.h>.
?C:.
?H:#$i_sysresrc I_SYS_RESOURCE  /**/
?H:.
?LINT:set i_sysresrc
: see if sys/resource.h has to be included
set sys/resource.h i_sysresrc
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sysresrc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: bin.U,v 3.1 1999/07/09 18:20:13 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: bin.U,v $
?RCS: Revision 3.1  1999/07/09 18:20:13  doughera
?RCS: Updated for installprefix
```

```
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:15:32  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:32:40  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:05:28  ram
?RCS: patch32: now uses installation prefix
?RCS:
?RCS:
 Revision 3.0.1.1  1993/09/13  15:56:51  ram
?RCS: patch10: made prompting more explicit (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:bin binexp installbin userelocatableinc initialinstalllocation: \
 Myread Prefixit Getfile Setvar Setprefixvar Oldconfig \
 test prefix prefixexp
?MAKE: -pick add $@ %<
?Y:TOP
?D:bin=''
?S:bin:
?S: This variable holds the name of the directory in which the user wants
?S: to put publicly executable images for the package in question.  It
?S: is most often a local directory such as /usr/local/bin. Programs using
?S: this variable must be prepared to deal with ~name substitution.
?S:.
?D:binexp=''
?S:binexp:
?S: This is the same as the bin variable, but is filename expanded at
?S: configuration time, for use in your makefiles.
?S:.
?D:installbin=''
?S:installbin:
?S: This variable is the same as binexp unless AFS is running in which case
?S: the user is explicitly prompted for it. This variable
 should always
?S: be used in your makefiles for maximum portability.
?S:.
?D:userelocatableinc=''
?S:userelocatableinc:
?S: This variable is set to true to indicate that perl should relocate
?S: @INC entries at runtime based on the path to the perl binary.
?S: Any @INC paths starting "../" are relocated relative to the directory
?S: containing the perl binary, and a logical cleanup of the path is then
?S: made around the join point (removing "dir/../" pairs)
```

```
?S:.
?S:initialinstalllocation:
?S: When userelocatableinc is true, this variable holds the location
?S: that make install should copy the perl binary to, with all the
?S: run-time relocatable paths calculated from this at install time.
?S: When used, it is initialized to the original value of binexp, and
?S: then binexp is set to '.../', as the other binaries are found
?S: relative to the perl binary.
?S:.
?C:BIN:
?C: This symbol holds the path of the bin directory where the package will
?C: be installed. Program must be
 prepared to deal with ~name substitution.
?C:.
?C:BIN_EXP:
?C: This symbol is the filename expanded version of the BIN symbol, for
?C: programs that do not want to deal with that at run-time.
?C:.
?C:PERL_RELOCATABLE_INC:
?C: This symbol, if defined, indicates that we'd like to relocate entries
?C: in @INC at run time based on the location of the perl binary.
?C:.
?H:#define BIN "$bin" /**/
?H:#define BIN_EXP "$binexp" /**/
?H:#define PERL_RELOCATABLE_INC "$userelocatableinc"  /**/
?H:.
?D:bin='/usr/local/bin'
?LINT:change prefix
?LINT:change prefixexp
?LINT:change prefixvar
?LINT:change installprefixexp
?LINT:set userelocatableinc
: determine where public executables go
echo " "
set dflt bin bin
eval $prefixit
fn=d~
rp='Pathname where the public executables will reside?'
. ./getfile
if $test "X$ansexp" != "X$binexp"; then
 installbin=''
fi
prefixvar=bin
: XXX Bug? -- ignores Configure -Dinstallprefix setting.
: XXX If this is fixed, also fix the "start perl" hunk below, which relies on
:
    this via initialinstalllocation
. ./setprefixvar
```

```
case "$userelocatableinc" in
$define|true|[yY]*) dflt='y' ;;
*)   dflt='n' ;;
esac
cat <<EOM

Would you like to build Perl so that the installation is relocatable, so that
library paths in @INC are determined relative to the path of the perl binary?
This is not advised for system Perl installs, or if you need to run setid
scripts or scripts under taint mode.

If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp='Use relocatable @INC?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*) val="$undef"  ;;
esac
set userelocatableinc
eval $setvar

initialinstalllocation="$binexp"
: Default prefix is now "up one level from where the binaries are"
case "$userelocatableinc" in
$define|true|[yY]*)
   bin=".../"
   binexp=".../"
   prefix=".../.."
   prefixexp=".../.."
   installprefixexp=".../.."
   ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/bin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_uwait.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
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```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_uwait.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:10:49  ram
?RCS: patch16: added knowledge about wait3()
?RCS: patch16: revised 'union wait' look-up algorithm
?RCS: patch16: fixed make dependency line accordingly
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_uwait d_uwait3: cat contains cppstdin cppminus +cppflags rm \
 Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_uwait:
?S: This symbol
 conditionally defines UNION_WAIT which indicates to the C
?S: program that argument for the wait() system call should be declared as
?S: 'union wait status' instead of 'int status'.
?S:.
?S:d_uwait3:
?S: This symbol conditionally defines UNION_WAIT3 which indicates to the C
?S: program that the first argument for the wait3() system call should be
?S: declared as 'union wait status' instead of 'int status'.
?S:.
?C:UNION_WAIT:
?C: This symbol if defined indicates to the C program that the argument
?C: for the wait() system call should be declared as 'union wait status'
?C: instead of 'int status'. You probably need to include <sys/wait.h>
?C: in the former case (see I_SYSWAIT).
?C:.
?C:UNION_WAIT3:
?C: This symbol if defined indicates to the C program that the first argument
?C: for the wait3() system call should be declared as 'union wait status'
?C: instead of 'int status'. You probably need to include <sys/wait.h>
?C: in the former case (see I_SYSWAIT). It seems safe to assume that
 the
?C: same rule applies to the second parameter of wait4().
?C:.
?H:#$d_uwait UNION_WAIT  /**/
?H:#$d_uwait3 UNION_WAIT3 /**/
?H:.
?T:val2 flags f also
?LINT:set d_uwait d_uwait3
: see if union wait is available
echo " "
?X:
?X: Unfortunately, we can't just grep <sys/wait.h> for "union wait" because
```

```
?X: some weird systems (did I hear HP-UX?) define union wait only when _BSD
?X: is defined. The same thing happens on OSF/1, who is pushing weirdness to
?X: its limits by requiring wait() to use (int *) but wait3() to use
?X: (union wait *), unless _BSD is defined and -lbsd is used, in which case
?X: wait() also expects (union wait *). Aaargh!!--RAM
?X:
set X $cppflags
shift
flags=''
also=''
for f in $*; do
 case "$f" in
 *NO_PROTO*) ;;
 *) flags="$flags $f";;
 esac
done
$cat `./findhdr sys/wait.h` /dev/null | \
 $cppstdin $flags $cppminus >wait.out 2>/dev/null
if $contains 'union.*wait.*{' wait.out >/dev/null 2>&1 ; then
 echo "Looks like your <sys/wait.h> knows about 'union wait'..."
 >&4
 val="$define"
@if UNION_WAIT
 also='also '
 if $contains 'extern.*wait[  ]*([  ]*int' wait.out >/dev/null 2>&1
 then
  echo "But wait() seems to expect an 'int' pointer (POSIX way)." >&4
  val="$undef"
  also=''
 elif $contains 'extern.*wait[  ]*([  ]*union' wait.out >/dev/null 2>&1
 then
  echo "And indeed wait() expects an 'union wait' pointer (BSD way)." >&4
 else
  echo "So we'll use that for wait()." >&4
 fi
@end
@if UNION_WAIT3 || d_uwait3
 val2="$define"
@end
@if UNION_WAIT3
 if $contains 'extern.*wait3[  ]*([  ]*int' wait.out >/dev/null 2>&1
 then
  echo "However wait3() seems to expect an 'int' pointer, weird." >&4
  val2="$undef"
 elif $contains 'extern.*wait3[  ]*([  ]*union' wait.out >/dev/null 2>&1
 then
  echo "And wait3() ${also}expects an 'union wait' pointer, fine." >&4
 else
```

```
  echo "As expected, wait3() ${also}uses an 'union wait' pointer." >&4
 fi
@end
else
 echo "No trace of 'union wait' in <sys/wait.h>..." >&4
 val="$undef"
@if UNION_WAIT && UNION_WAIT3
 echo
 "Both wait() and wait3() will use a plain 'int' pointer then." >&4
@elsif UNION_WAIT
 echo "Your wait() should be happy with a plain 'int' pointer." >&4
@elsif UNION_WAIT3
 echo "Your wait3() should be happy with a plain 'int' pointer." >&4
@end
fi
set d_uwait
eval $setvar
@if UNION_WAIT3 || d_uwait3
val="$val2"; set d_uwait3
eval $setvar
@end
$rm -f wait.out
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_uwait.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sitescript.U,v $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sitescript.U,v $
?RCS:
?MAKE:sitescript sitescriptexp installsitescript : Getfile Oldconfig test \
 Setprefixvar sitebin siteprefix
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitescript="
?S:sitescript:
?S: This variable holds the name of the directory in which the user wants
?S: to put add-on publicly executable files for the package in question.  It
```

```
?S: is most often a local directory such as /usr/local/bin. Programs using
?S: this variable must be prepared to deal with ~name substitution.
?S: The standard
 distribution will put nothing in this directory.
?S: After perl has been installed, users may install their own local
?S: scripts in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitescriptexp="
?S:sitescriptexp:
?S: This is the same as the sitescript variable, but is filename expanded at
?S: configuration time, for use in your makefiles.
?S:.
?D:installsitescript="
?S:installsitescript:
?S: This variable is usually the same as sitescriptexp, unless you are on
?S: a system running AFS, in which case they may differ slightly. You
?S: should always use this variable within your makefiles for portability.
?S:.
?LINT:change prefixvar
?LINT:set installsitescript
?LINT:set sitescript
?LINT:set sitescriptexp
: determine where add-on public executable scripts go
case "$sitescript" in
") dflt=$siteprefix/script
 $test -d $dflt || dflt=$sitebin ;;
*)  dflt="$sitescript" ;;
esac
fn=d~+
rp='Pathname where add-on public executable scripts
 should be installed?'
. ./getfile
prefixvar=sitescript
. ./setprefixvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/sitescript.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_memmem: Hasproto Inlibc Setvar d_gnulibc
?MAKE: -pick add $@ %<
?S:d_memmem:
```

```
?S: This variable conditionally defines the HAS_MEMMEM symbol, which
?S: indicates to the C program that the memmem() routine is available
?S: to return a pointer to the start of the first occurrence of a
?S: substring in a memory area (or NULL if not found).
?S:.
?C:HAS_MEMMEM:
?C: This symbol, if defined, indicates that the memmem routine is
?C: available to return a pointer to the start of the first occurrence
?C: of a substring in a memory area (or NULL if not found).
?C: In glibc, memmem is a GNU extension.  The function is visible in
?C: libc, but the prototype is only visible if _GNU_SOURCE is #defined.
?C: Thus we only define this if both the prototype and symbol are found.
?C:.
?H:#$d_memmem
 HAS_MEMMEM  /**/
?H:.
?T:d_memmem_proto xx1 xx2 xx3 xx4
?LINT:set d_memmem
: see if memmem exists
: We need both a prototype in string.h and the symbol in libc.
echo " "
d_memmem_proto="
xx1="#$d_gnulibc HAS_GNULIBC"
xx2='#if defined(HAS_GNULIBC) && !defined(_GNU_SOURCE)'
xx3='#   define _GNU_SOURCE'
xx4='#endif'
set d_memmem_proto memmem literal "$xx1" literal "$xx2" literal "$xx3" literal "$xx4" define string.h
eval $hasproto
case "$d_memmem_proto" in
   define) # see if memmem exists
 set memmem d_memmem
 eval $inlibc
 ;;
   *)  val=$undef
 set d_memmem
 eval $setvar
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_memmem.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X: This unit generates a $hasfield string that is used internally
?X: by Configure to check if this system has a field for a
?X: particular struct (of if this system has a particular struct!)
?X:
?X: To use it, say something like:
?X:  set d_statblocks stat st_blocks i_sysstat sys/stat.h
?X:  eval $hasfield
?X: Or, for more complicated sets of headers, do something like
?X: hdrs="$define sys/foo.h
?X:  $i_sysbar sys/bar.h
?X:  $i_syszot sys/zot.h
?X:  $i_zappa zappa.h"
?X: set d_statblocks stat st_blocks $hdrs
?X: eval $hasfield
?X:
?MAKE:Hasfield: Setvar rm_try test Compile
?MAKE: -pick add $@ %<
?T:varname struct field
?V:hasfield
: Define hasfield macro for Configure internal use
hasfield='varname=$1;
 struct=$2; field=$3; shift; shift; shift;
while $test $# -ge 2; do
 case "$1" in
 $define) echo "#include <$2>";;
 esac ;
   shift 2;
done > try.c;
echo "int main () { struct $struct foo; char* bar; bar = (char*)foo.$field; }" >> try.c;
set try;
if eval $compile; then
 val="$define";
else
 val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try'
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/Hasfield.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Cppsym.U,v 3.0.1.5 1995/05/12 11:59:11 ram Exp $

```
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Cppsym.U,v $
?RCS: Revision 3.0.1.5  1995/05/12  11:59:11  ram
?RCS: patch54: split awk command onto two lines for older awk's (ADO)
?RCS:
?RCS: Revision 3.0.1.4  1995/01/11  14:55:57  ram
?RCS: patch45: new cc vs. cpp symbol checking suggested by JHI
?RCS: patch45: added more cpp symbols (JHI)
?RCS:
?RCS: Revision 3.0.1.3  1994/10/29  15:51:32  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: new symbols ardent and titan (ADO)
?RCS:
?RCS:
 Revision 3.0.1.2  1994/06/20  06:53:32  ram
?RCS: patch30: extended cpp symbol lookup list (JHI)
?RCS: patch30: renamed attrlist symbol into al for brevity
?RCS:
?RCS: Revision 3.0.1.1  1993/12/15  08:14:14  ram
?RCS: patch15: added new cpp symbols __bsdi__ and BSD_NET2
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X: This unit produces a shell script called Cppsym, which can be used to
?X: determine whether any in a list of symbols is defined by the C compilation
?X: chain (C preprocessor symbols plus C compiler native ones).
?X: It can determine the status of any symbol, though the symbols in $al
?X: are more easily determined.  If you want to add to $al you can do
?X: it in Myinit.U.
?MAKE:Cppsym ccsymbols cppsymbols cppccsymbols: run \
 eunicefix Guess awk cat tr sed sort rm rm_try startsh osname \
 +cc +gccversion test comm uniq echo Options trnl \
 optimize ccflags ldflags libs cpp_stuff cpp
?MAKE: -pick add $@ %<
?T:also
 symbols i postprocess_cc_v tHdrH
?X:
?X: The symbol list is in alpha order for ease of maintenance...
?X:
```

```
?X: Lots of new symbols (mostly rummaged from gcc), courtesy of
?X: Jarkko Hietaniemi <jhi@snakemail.hut.fi> -- RAM, 06/06/94
?X:
?S:ccsymbols:
?S: The variable contains the symbols defined by the C compiler alone.
?S: The symbols defined by cpp or by cc when it calls cpp are not in
?S: this list, see cppsymbols and cppccsymbols.
?S: The list is a space-separated list of symbol=value tokens.
?S:.
?S:cppsymbols:
?S: The variable contains the symbols defined by the C preprocessor
?S: alone.  The symbols defined by cc or by cc when it calls cpp are
?S: not in this list, see ccsymbols and cppccsymbols.
?S: The list is a space-separated list of symbol=value tokens.
?S:.
?S:cppccsymbols:
?S: The variable contains the symbols defined by the C compiler
?S: when it calls cpp.  The symbols defined by the cc alone or cpp
?S: alone are not in this list, see ccsymbols and cppsymbols.
?S: The
 list is a space-separated list of symbol=value tokens.
?S:.
?F:./Cppsym
?F:./Cppsym.know
?F:!Cppsym.true
?F:!ccsym.com
?F:!ccsym.cpp
?F:!ccsym.own
?X: fake LINT hints
?LINT:change ccflags
?LINT:extern s
?LINT:extern s__
: Preprocessor symbols
echo " "
$echo "Guessing which symbols your C compiler and preprocessor define..." >&4
?X: If your symbol is mixed case, just add it as-is.
?X: All symbols will be transformed to both all-lower and all-upper.
?X: Also drop any leading/trailing underscores, the scan will try all those.
$cat <<'EOSH' > Cppsym.know
a29k aarch64 ABI64 aegis AES_SOURCE AIX AIX32 AIX370 AIX41 AIX42
AIX43 aixpc AIX_SOURCE alliant ALL_SOURCE alpha AM29000 am29000
AMD64 amd64 amiga AMIGAOS AMIX ansi ANSI_C_SOURCE apollo arch_ppc
arch_pwr ardent ARM ARM32 atarist att386 att3b
BeOS BIG_ENDIAN BIT_MSF BSD bsd bsd43 bsd4_2 BSD4_3 bsd4_3 bsd4_4
BSDCOMPAT bsdi BSD_4_3 BSD_4_4 BSD_NET2 BSD_TIME BSD_TYPES bull
byteorder byte_order
c cadmus clang clipper CMU COFF COMPILER_VERSION
```

concurrent
convex cpu CRAY cray CRAYMPP ctix CX_UX CYGWIN
DECC DGUX DGUX_SOURCE DJGPP dmert DOLPHIN DPX2 DSO Dynix DynixPTX
ELF encore EPI EXTENSIONS
FAVOR_BSD FILE_OFFSET_BITS FORTIFY_SOURCE FreeBSD
GCC_NEW_VARARGS gcos gcx gimpel GLIBC GLIBC_MINOR GNUC GNUC_MINOR
GNU_LIBRARY GNU_SOURCE GO32 gould GOULD_PN
H3050R H3050RX hbullx20 hcx host_mips hp200 hp300 HP700 hp700
hp800 hp9000 hp9000s200 hp9000s300 hp9000s400
hp9000s700 hp9000s800 hp9k8 hppa hpux HPUX_SOURCE hp_osf
i186 i286 i386 i486 i586 i686 i8086 i80960 i860 I960 IA32 IA64
iAPX286 ibm ibm032 ibmesa IBMR2 ibmrt ILP32 ILP64
INLINE_INTRINSICS INT64 INTEL interdata INTRINSICS is68k itanium
ksr1
LANGUAGE_C LARGEFILE64_SOURCE LARGEFILE_SOURCE LARGE_FILE_API
LFS64_LARGEFILE LFS_LARGEFILE LIBCATAMOUNT Linux LITTLE_ENDIAN
LONG64 LONGDOUBLE LONGLONG LONG_DOUBLE LONG_LONG LP64 luna
luna88k Lynx
M68000 m68k m88100 m88k M88KBCS_TARGET MACH machine MachTen
MATH_HAS_NO_SIDE_EFFECTS mc300 mc500 mc68000 mc68010 mc68020
mc68030 mc68040 mc68060
mc68k mc68k32 mc700 mc88000 mc88100
merlin mert MiNT mips MIPSEB MIPSEL MIPS_FPSET MIPS_ISA MIPS_SIM
MIPS_SZINT MIPS_SZLONG MIPS_SZPTR MODERN_C motorola MSDOS
MTXINU MULTIMAX MVS mvs M_AMD64 M_ARM M_ARMT M_COFF M_I186 M_I286
M_I386 M_I8086 M_I86 M_I86SM M_IA64 M_IX86 M_PPC M_SYS3 M_SYS5
M_SYSIII M_SYSV M_UNIX M_X86 M_XENIX
n16 ncl_el ncl_mr NetBSD news1500 news1700 news1800 news1900
news3700 news700 news800 news900 NeXT NLS nonstopux ns16000
ns32000 ns32016 ns32332 ns32k nsc32000
OCS88 OEMVS OpenBSD os OS2 OS390 osf OSF1 OSF_SOURCE
PARAGON parisc pa_risc PA_RISC1_1 PA_RISC2_0 pc532 pdp11 PGC PIC
plexus PORTAR posix POSIX1B_SOURCE POSIX2_SOURCE POSIX4_SOURCE
POSIX_C_SOURCE POSIX_SOURCE POWER powerpc ppc PROTOTYPES PWB pyr
QK_USER QNX
R3000 REENTRANT RES Rhapsody RISC6000 riscix riscos RT
S390 S390x SA110 SCO scs sequent sgi SGI_SOURCE SH SH3 sinix
SIZE_INT SIZE_LONG SIZE_PTR SOCKETS_SOURCE SOCKET_SOURCE sony
sonyrisc sony_news sparc sparclite sparcv8 sparcv9 spectrum
stardent stdc
STDC_EXT stratos sun sun3 sun386 Sun386i svr3 svr4
SVR4_2 SVR4_SOURCE svr5 SX system SYSTYPE_BSD SYSTYPE_BSD43
SYSTYPE_BSD44 SYSTYPE_SVR4 SYSTYPE_SVR5 SYSTYPE_SYSV SYSV SYSV3
SYSV4 SYSV5 sysV68 sysV88
Tek4132 Tek4300 thumb thw_370 thw_intel thw_rs6000 titan TM3200
TM5400 TM5600 tower tower32 tower32_200 tower32_600 tower32_700
tower32_800 tower32_850 tss
u370 u3b u3b2 u3b20 u3b200 u3b20d u3b5 ultrix UMAXV UnicomPBB

```
UnicomPBD UNICOS UNICOSMK unix UNIX95 UNIX99 unixpc unos USE_BSD
USE_FILE_OFFSET64 USE_GNU USE_ISOC9X USE_LARGEFILE
USE_LARGEFILE64 USE_MISC USE_POSIX USE_POSIX199309
USE_POSIX199506 USE_POSIX2 USE_REENTRANT USE_SVID USE_UNIX98
USE_XOPEN USE_XOPEN_EXTENDED USGr4 USGr4_2 UTek Utek UTS UWIN
uxpm uxps
vax venix VMESA vms
x86_64 xenix Xenix286 XOPEN_SOURCE XOPEN_SOURCE_EXTENDED XPG2
XPG2_EXTENDED XPG3 XPG3_EXTENDED XPG4 XPG4_EXTENDED
z8000 zarch
EOSH
# Maybe put other stuff here too.
?X:Some OS's will have a dash in their $osname
?X:e.g. Android is known as linux-android
?X:The
 preprocessor will interpret the dash as a minus
./tr '-' '_' <<EOSH >>Cppsym.know
$osname
EOSH
./tr '[a-z]' '[A-Z]' < Cppsym.know > Cppsym.a
./tr '[A-Z]' '[a-z]' < Cppsym.know > Cppsym.b
$cat Cppsym.know > Cppsym.c
$cat Cppsym.a Cppsym.b Cppsym.c | $tr ' ' $trnl | $sort | $uniq > Cppsym.know
$rm -f Cppsym.a Cppsym.b Cppsym.c
cat <<EOSH > Cppsym
$startsh
if $test \$# -gt 0; then
   echo \$* | $tr " " "$trnl" | ./Cppsym.try > Cppsym.got
   if $test -s Cppsym.got; then
 $rm -f Cppsym.got
 exit 0
   fi
   $rm -f Cppsym.got
   exit 1
else
   $tr " " "$trnl" | ./Cppsym.try
   exit 0
fi
EOSH
chmod +x Cppsym
$eunicefix Cppsym
?X: The below awk script will die a horrible death if
?X: some of the tested symbols are not long ints.
?X: Also, we do not make difference between just defined and defined zero.
cat <<EOSH > Cppsym.try
$startsh
cat <<'EOCP' > try.c
#include <stdio.h>
```

```
#if cpp_stuff == 1
#define STRINGIFY(a)    "a"
#endif
#if cpp_stuff == 42
#define StGiFy(a)  #a
#define STRINGIFY(a)
    StGiFy(a)
#endif
#if $cpp_stuff != 1 && $cpp_stuff != 42
#   include "Bletch: How does this C preprocessor stringify macros?"
#endif
int main() {
EOCP
?X: The length($1) command guards against possible empty entries.
?X: The awk snippet is know to give heartburn to UNICOS/mk awk.
$awk \\
EOSH
cat <<'EOSH' >> Cppsym.try
'length($1) > 0 {
   printf "#ifdef %s\nprintf(\"%s=%%s\\n\", STRINGIFY(%s));\n#endif\n", $1, $1, $1
   printf "#ifdef _%s\nprintf(\"_%s=%%s\\n\", STRINGIFY(_%s));\n#endif\n", $1, $1, $1
   printf "#ifdef __%s\nprintf(\"__%s=%%s\\n\", STRINGIFY(__%s));\n#endif\n", $1, $1, $1
   printf "#ifdef __%s__\nprintf(\"__%s__=%%s\\n\", STRINGIFY(__%s__));\n#endif\n", $1, $1, $1
}' >> try.c
echo 'return 0;}' >> try.c
EOSH
cat <<EOSH >> Cppsym.try
ccflags="$ccflags"
case "$osname-$gccversion" in
irix-) ccflags="\$ccflags -woff 1178" ;;
os2-*) ccflags="\$ccflags -Zlinker /PM:VIO" ;;
esac
$cc -o try -Dcpp_stuff=$cpp_stuff $optimize \$ccflags $ldflags try.c $libs 2>/dev/null
 && $run ./try | $sed 's/ /\\\\ /g'
EOSH
chmod +x Cppsym.try
$eunicefix Cppsym.try
./Cppsym < Cppsym.know | $sort | $uniq > Cppsym.true
: Add in any Linux cpp "predefined macros":
case "$osname::$gccversion" in
 *linux*::*.*|*gnukfreebsd*::*.*|gnu::*.*)
   tHdrH=_tmpHdr
   rm -f $tHdrH'.h' $tHdrH
   touch $tHdrH'.h'
   # Filter out macro arguments, such as Linux's __INT8_C(c)
   if $cpp -dM $tHdrH'.h' > $tHdrH'_cppsym.h' && [ -s $tHdrH'_cppsym.h' ]; then
      sed -e 's/#define[\ \  ]*//;s/[\ \     ].*$//' -e 's/(.*//' <$tHdrH'_cppsym.h' >$tHdrH'_cppsym.real'
      if [ -s $tHdrH'_cppsym.real' ]; then
```

```
   cat $tHdrH'_cppsym.real' Cppsym.know | sort | uniq | ./Cppsym | sort | uniq > Cppsym.true
      fi
   fi
   rm -f $tHdrH'.h' $tHdrH'_cppsym.h' $tHdrH'_cppsym.real'
 ;;
esac
: now check the C compiler for additional symbols
?X: suggested by Jarkko Hietaniemi <jhi@snakemail.hut.fi>, thanks!
postprocess_cc_v="
case "$osname" in
aix) postprocess_cc_v="|$tr , ' '" ;;
esac
$cat >ccsym
 <<EOS
$startsh
$cat >tmp.c <<EOF
extern int foo;
EOF
for i in \`$cc -v -c tmp.c 2>&1 $postprocess_cc_v\`
do
 case "\$i" in
 -D*) echo "\$i" | $sed 's/^-D//';;
 -A*) $test "$gccversion" && echo "\$i" | $sed 's/^-A//' | $sed 's/\(.*\)(\(.*\))/\1=\2/';;
 esac
done
$rm_try
EOS
postprocess_cc_v="
chmod +x ccsym
$eunicefix ccsym
./ccsym > ccsym1.raw
?X: AIX complains if $uniq is passed an empty file.  ($sort apparently
?X: doesn't care.)  --AD  14 July 1998
if $test -s ccsym1.raw; then
   $sort ccsym1.raw | $uniq >ccsym.raw
else
   mv ccsym1.raw ccsym.raw
fi

?X: canonicalize symbols for easier sort/uniq/comm usage: append =1 if no = sign
?X: the awk script must be on two lines for older awk programs, sigh! -- ADO
$awk '/\=/ { print $0; next }
 { print $0"=1" }' ccsym.raw >ccsym.list
$comm -13 Cppsym.true ccsym.list >ccsym.own
$comm -12 Cppsym.true ccsym.list >ccsym.com
$comm -23 Cppsym.true ccsym.list >ccsym.cpp
also="
if $test -z ccsym.raw; then
```

```
 echo "Your C compiler doesn't seem
 to define any symbols!" >&4
 echo " "
 echo "However, your C preprocessor defines the following symbols:"
 $cat Cppsym.true
 ccsymbols=''
 cppsymbols=`$cat Cppsym.true`
 cppsymbols=`echo $cppsymbols`
 cppccsymbols="$cppsymbols"
else
 if $test -s ccsym.com; then
  echo "Your C compiler and pre-processor define these symbols:"
  $sed -e 's/\(..*\)=.*/\1/' ccsym.com
  also='also '
  symbols='ones'
  cppccsymbols=`$cat ccsym.com`
  cppccsymbols=`echo $cppccsymbols`
  $test "$silent" || sleep 1
 fi
 if $test -s ccsym.cpp; then
  $test "$also" && echo " "
  echo "Your C pre-processor ${also}defines the following symbols:"
  $sed -e 's/\(..*\)=.*/\1/' ccsym.cpp
  also='further '
  cppsymbols=`$cat ccsym.cpp`
  cppsymbols=`echo $cppsymbols`
  $test "$silent" || sleep 1
 fi
 if $test -s ccsym.own; then
  $test "$also" && echo " "
  echo "Your C compiler ${also}defines the following cpp symbols:"
  $sed -e 's/\(..*\)=1/\1/' ccsym.own
  $sed -e 's/\(..*\)=.*/\1/' ccsym.own | $uniq >>Cppsym.true
  ccsymbols=`$cat
 ccsym.own`
  ccsymbols=`echo $ccsymbols`
  $test "$silent" || sleep 1
 fi
fi

: add -D_FORTIFY_SOURCE if feasible and not already there
case "$gccversion" in
[456789].*|[1-9][0-9]*) case "$optimize$ccflags" in
 *-O*) case "$ccflags$cppsymbols" in
  *_FORTIFY_SOURCE=*) # Don't add it again.
   echo "You seem to have -D_FORTIFY_SOURCE already, not adding it." >&4
   ;;
  *) echo "Adding -D_FORTIFY_SOURCE=2 to ccflags..." >&4
```

```
  ccflags="$ccflags -D_FORTIFY_SOURCE=2"
  ;;
 esac
 ;;
 *) echo "You have gcc 4.* or later but not optimizing, not adding -D_FORTIFY_SOURCE." >&4
 ;;
 esac
 ;;
*) echo "You seem not to have gcc 4.* or later, not adding -D_FORTIFY_SOURCE." >&4
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Cppsym.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_PRId64 d_PRIi64 d_PRIu64 d_PRIo64 d_PRIx64 d_PRIXU64 \
 sPRId64 sPRIi64 sPRIu64 sPRIo64 sPRIx64 sPRIXU64: \
 quadtype i_inttypes test cat rm_try Setvar Compile run
?MAKE: -pick add $@ %<
?S:d_PRId64:
?S: This variable conditionally defines the PERL_PRId64 symbol, which
?S: indicates that stdio has a symbol to print 64-bit decimal numbers.
?S:.
?S:d_PRIi64:
?S: This variable conditionally defines the PERL_PRIi64 symbol, which
?S: indicates that stdio has a symbol to print 64-bit decimal numbers.
?S:.
?S:d_PRIu64:
?S: This variable conditionally defines the PERL_PRIu64 symbol, which
?S: indicates that stdio has a symbol to print 64-bit unsigned decimal
?S: numbers.
?S:.
?S:d_PRIo64:
?S: This variable
 conditionally defines the PERL_PRIo64 symbol, which
?S: indicates that stdio has a symbol to print 64-bit octal numbers.
?S:.
?S:d_PRIx64:
?S: This variable conditionally defines the PERL_PRIx64 symbol, which
```

```
?S: indicates that stdio has a symbol to print 64-bit hexadecimal numbers.
?S:.
?S:d_PRIXU64:
?S: This variable conditionally defines the PERL_PRIXU64 symbol, which
?S: indicates that stdio has a symbol to print 64-bit hExADECimAl numbers.
?S: The 'U' in the name is to separate this from d_PRIx64 so that even
?S: case-blind systems can see the difference.
?S:.
?S:sPRId64:
?S: This variable, if defined, contains the string used by stdio to
?S: format 64-bit decimal numbers (format 'd') for output.
?S:.
?S:sPRIi64:
?S: This variable, if defined, contains the string used by stdio to
?S: format 64-bit decimal numbers (format 'i') for output.
?S:.
?S:sPRIu64:
?S: This variable, if defined, contains the string used by stdio to
?S: format 64-bit unsigned decimal numbers (format 'u')
 for output.
?S:.
?S:sPRIo64:
?S: This variable, if defined, contains the string used by stdio to
?S: format 64-bit octal numbers (format 'o') for output.
?S:.
?S:sPRIx64:
?S: This variable, if defined, contains the string used by stdio to
?S: format 64-bit hexadecimal numbers (format 'x') for output.
?S:.
?S:sPRIXU64:
?S: This variable, if defined, contains the string used by stdio to
?S: format 64-bit hExADECimAl numbers (format 'X') for output.
?S: The 'U' in the name is to separate this from sPRIx64 so that even
?S: case-blind systems can see the difference.
?S:.
?C:PERL_PRId64:
?C: This symbol, if defined, contains the string used by stdio to
?C: format 64-bit decimal numbers (format 'd') for output.
?C:.
?C:PERL_PRIi64:
?C: This symbol, if defined, contains the string used by stdio to
?C: format 64-bit decimal numbers (format 'i') for output.
?C:.
?C:PERL_PRIu64:
?C: This symbol, if defined, contains the string used by stdio to
?C: format 64-bit unsigned decimal numbers (format 'u')
 for output.
?C:.
```

```
?C:PERL_PRIo64:
?C: This symbol, if defined, contains the string used by stdio to
?C: format 64-bit octal numbers (format 'o') for output.
?C:.
?C:PERL_PRIx64:
?C: This symbol, if defined, contains the string used by stdio to
?C: format 64-bit hexadecimal numbers (format 'x') for output.
?C:.
?C:PERL_PRIXU64:
?C: This symbol, if defined, contains the string used by stdio to
?C: format 64-bit hExADECimAl numbers (format 'X') for output.
?C:.
?H:#$d_PRId64 PERL_PRId64 $sPRId64 /**/
?H:#$d_PRIi64 PERL_PRIi64 $sPRIi64 /**/
?H:#$d_PRIu64 PERL_PRIu64 $sPRIu64 /**/
?H:#$d_PRIo64 PERL_PRIo64 $sPRIo64 /**/
?H:#$d_PRIx64 PERL_PRIx64 $sPRIx64 /**/
?H:#$d_PRIx64 PERL_PRIXU64 $sPRIXU64 /**/
?H:.
?T:yyy
?F:!try
: Check 64bit sizes
echo " "

if $test X"$quadtype" != X; then

echo "Checking how to print 64-bit integers..." >&4

if $test X"$sPRId64" = X -a X"$quadtype" = Xint; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
 int q = 12345678901;

 printf("%ld\n", q);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  12345678901)
   sPRId64="'d'"; sPRIi64="'i'"; sPRIu64="'u'";
   sPRIo64="'o'"; sPRIx64="'x'"; sPRIXU64="'X'";
   echo "We will use %d."
   ;;
  esac
```

```
 fi
fi

if $test X"$sPRId64" = X -a X"$quadtype" = Xlong; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
 long q = 12345678901;
 printf("%ld\n", q);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  12345678901)
   sPRId64='"ld"'; sPRIi64='"li"'; sPRIu64='"lu"';
   sPRIo64='"lo"'; sPRIx64='"lx"'; sPRIXU64='"lX"';
   echo "We will use %ld."
   ;;
  esac
 fi
fi

if $test X"$sPRId64" = X -a X"$i_inttypes" = X"$define" -a X"$quadtype" = Xint64_t; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <inttypes.h>
#include <stdio.h>
int main() {
 int64_t q = 12345678901;
 printf("%" PRId64 "\n", q);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  12345678901)
   sPRId64=PRId64;
 sPRIi64=PRIi64; sPRIu64=PRIu64;
   sPRIo64=PRIo64; sPRIx64=PRIx64; sPRIXU64=PRIXU64;
   echo "We will use the C9X style."
   ;;
  esac
 fi
fi
```

```
if $test X"$sPRId64" = X -a X"$quadtype" != X; then
 $cat >try.c <<EOCP
#include <sys/types.h>
#include <stdio.h>
int main() {
 $quadtype q = 12345678901;
 printf("%Ld\n", q);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  12345678901)
   sPRId64="'Ld'"; sPRIi64="'Li'"; sPRIu64="'Lu'";
   sPRIo64="'Lo'"; sPRIx64="'Lx'"; sPRIXU64="'LX'";
   echo "We will use %Ld."
   ;;
  esac
 fi
fi

if $test X"$sPRId64" = X -a X"$quadtype" = X"long long"; then
 $cat >try.c <<'EOCP'
#include <sys/types.h>
#include <stdio.h>
int main() {
 long long q = 12345678901LL; /* AIX cc requires the LL suffix. */
 printf("%lld\n", q);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  12345678901)
   sPRId64="'lld'"; sPRIi64="'lli'"; sPRIu64="'llu'";
   sPRIo64="'llo'"; sPRIx64="'llx'";
 sPRIXU64="'llX'";
   echo "We will use the %lld style."
   ;;
  esac
 fi
fi

if $test X"$sPRId64" = X -a X"$quadtype" != X; then
 $cat >try.c <<EOCP
```

```
#include <sys/types.h>
#include <stdio.h>
int main() {
 $quadtype q = 12345678901;
 printf("%qd\n", q);
}
EOCP
 set try
 if eval $compile; then
  yyy=`$run ./try`
  case "$yyy" in
  12345678901)
   sPRId64='"qd"'; sPRIi64='"qi"'; sPRIu64='"qu"';
   sPRIo64='"qo"'; sPRIx64='"qx"'; sPRIXU64='"qX"';
   echo "We will use %qd."
   ;;
  esac
 fi
fi

if $test X"$sPRId64" = X; then
 echo "Cannot figure out how to print 64-bit integers." >&4
fi
$rm_try

fi

case "$sPRId64" in
") d_PRId64="$undef"; d_PRIi64="$undef"; d_PRIu64="$undef";
 d_PRIo64="$undef"; d_PRIx64="$undef"; d_PRIXU64="$undef";
 ;;
*) d_PRId64="$define"; d_PRIi64="$define"; d_PRIu64="$define";
 d_PRIo64="$define"; d_PRIx64="$define"; d_PRIXU64="$define";
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/quadfio.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_setpgrp2.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_setpgrp2.U,v $
?RCS: Revision 3.0  1993/08/18  12:07:10  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_setpgrp2: Inlibc
?MAKE: -pick add $@ %<
?S:d_setpgrp2:
?S: This variable conditionally defines the HAS_SETPGRP2 symbol, which
?S: indicates to the C program that the setpgrp2() (as in DG/UX) routine
?S: is available to set the current process group.
?S:.
?C:HAS_SETPGRP2 (SETPGRP2):
?C: This symbol, if defined, indicates that the
 setpgrp2() (as in DG/UX)
?C: routine is available to set the current process group.
?C:.
?H:#$d_setpgrp2 HAS_SETPGRP2  /**/
?H:.
?LINT:set d_setpgrp2
: see if setpgrp2 exists
set setpgrp2 d_setpgrp2
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setpgrp2.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_systable.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_systable.U,v $
?RCS: Revision 3.0.1.1  1993/10/16  13:50:20  ram
?RCS: patch12: created
?RCS:
?RCS:
?MAKE:i_systable: Inhdr
?MAKE: -pick add $@ %<
```

```
?S:i_systable:
?S: This variable conditionally defines the I_SYS_TABLE symbol, and
?S: indicates whether a C program should include <sys/table.h>.
?S:.
?C:I_SYS_TABLE:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <sys/table.h> for the OSF/1 table() system call.
?C:.
?H:#$i_systable
 I_SYS_TABLE  /**/
?H:.
?LINT:set i_systable
: see if this is an OSF sys/table system
set sys/table.h i_systable
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_systable.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_dbl_dig.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_dbl_dig.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:28  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_dbl_dig: Myread contains cat rm Setvar \
 cppstdin cppflags cppminus
?MAKE: -pick add $@ %<
?S:d_dbl_dig:
?S: This variable conditionally defines d_dbl_dig if this system's
?S: header files provide DBL_DIG, which is the number of significant
?S: digits in a double precision
 number.
?S:.
?C:HAS_DBL_DIG:
?C: This symbol, if defined, indicates that this system's <float.h>
```

```
?C: or <limits.h> defines the symbol DBL_DIG, which is the number
?C: of significant digits in a double precision number.  If this
?C: symbol is not defined, a guess of 15 is usually pretty good.
?C:.
?H:#$d_dbl_dig HAS_DBL_DIG /**/
?H:.
?F:!dbl_dig.c
?LINT:set d_dbl_dig
: See if number of significant digits in a double precision number is known
echo " "
$cat >dbl_dig.c <<EOM
#include <limits.h>
#include <float.h>
#ifdef DBL_DIG
printf("Contains DBL_DIG");
#endif
EOM
$cppstdin $cppflags $cppminus < dbl_dig.c >dbl_dig.E 2>/dev/null
if $contains 'DBL_DIG' dbl_dig.E >/dev/null 2>&1; then
 echo "DBL_DIG found." >&4
 val="$define"
else
 echo "DBL_DIG NOT found." >&4
 val="$undef"
fi
$rm -f dbl_dig.?
set d_dbl_dig
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_dbl_dig.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:siteman3dir siteman3direxp installsiteman3dir: Getfile \
 Setprefixvar prefix siteprefix man3dir sed
?MAKE: -pick add $@ %<
?Y:TOP
```

```
?D:siteman3dir="
?S:siteman3dir:
?S: This variable contains the name of the directory in which site-specific
?S: library man source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S: The standard distribution will put nothing in this directory.
?S: After
 perl has been installed, users may install their own local
?S: man3 pages in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:siteman3direxp="
?S:siteman3direxp:
?S: This variable is the same as the siteman3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsiteman3dir="
?S:installsiteman3dir:
?S: This variable is really the same as siteman3direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man3direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installsiteman3dir
?LINT:set siteman3dir
?LINT:set siteman3direxp
: determine where add-on library man pages go
case "$siteman3dir" in
") dflt=`echo $man3dir | $sed "s#^$prefix#$siteprefix#"` ;;
*) dflt=$siteman3dir ;;
esac
case "$dflt" in
"|' ') dflt=none ;;
esac
fn=dn+~
rp='Pathname
 where the site-specific library manual pages should be installed?'
. ./getfile
prefixvar=siteman3dir
. ./setprefixvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/siteman3dir.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_endservent_r.U,v 0RCS:
?RCS: Copyright (c) 2002,2003 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: Generated by the reentr.pl from the Perl 5.8 distribution.
?RCS:
?MAKE:d_endservent_r endservent_r_proto: Inlibc Protochk Hasproto i_systypes \
 usethreads i_netdb extern_C
?MAKE: -pick add $@ %<
?S:d_endservent_r:
?S: This variable conditionally defines the HAS_ENDSERVENT_R symbol,
?S: which indicates to the C program that the endservent_r()
?S: routine is available.
?S:.
?S:endservent_r_proto:
?S: This variable encodes the prototype of endservent_r.
?S: It is zero if d_endservent_r is undef, and one of the
?S: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endservent_r
?S: is defined.
?S:.
?C:HAS_ENDSERVENT_R:
?C: This symbol, if defined, indicates that the endservent_r routine
?C: is
 available to endservent re-entrantly.
?C:.
?C:ENDSERVENT_R_PROTO:
?C: This symbol encodes the prototype of endservent_r.
?C: It is zero if d_endservent_r is undef, and one of the
?C: REENTRANT_PROTO_T_ABC macros of reentr.h if d_endservent_r
?C: is defined.
?C:.
?H:#$d_endservent_r HAS_ENDSERVENT_R /**/
?H:#define ENDSERVENT_R_PROTO $endservent_r_proto /**/
?H:.
?T:try hdrs d_endservent_r_proto
: see if endservent_r exists
set endservent_r d_endservent_r
eval $inlibc
case "$d_endservent_r" in
"$define")
 hdrs="$i_systypes sys/types.h define stdio.h $i_netdb netdb.h"
 case "$d_endservent_r_proto:$usethreads" in
 ":define") d_endservent_r_proto=define
  set d_endservent_r_proto endservent_r $hdrs
```

```
 eval $hasproto ;;
*) ;;
esac
case "$d_endservent_r_proto" in
define)
case "$endservent_r_proto" in
"|0) try='int endservent_r(struct servent_data*);'
./protochk "$extern_C $try" $hdrs && endservent_r_proto=I_D ;;
esac
case "$endservent_r_proto" in
"|0) try='void endservent_r(struct
servent_data*);'
./protochk "$extern_C $try" $hdrs && endservent_r_proto=V_D ;;
esac
case "$endservent_r_proto" in
"|0) d_endservent_r=undef
 endservent_r_proto=0
 echo "Disabling endservent_r, cannot determine prototype." >&4 ;;
* ) case "$endservent_r_proto" in
 REENTRANT_PROTO*) ;;
 *) endservent_r_proto="REENTRANT_PROTO_$endservent_r_proto" ;;
 esac
 echo "Prototype: $try" ;;
esac
;;
*) case "$usethreads" in
 define) echo "endservent_r has no prototype, not using it." >&4 ;;
 esac
 d_endservent_r=undef
 endservent_r_proto=0
 ;;
esac
;;
*) endservent_r_proto=0
 ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_endservent_r.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_getpent.U,v 3.0 1993/08/18 12:06:09 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_getpent.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getpent: Inlibc
?MAKE: -pick add $@ %<
?S:d_getpent:
?S: This variable conditionally defines HAS_GETPROTOENT if getprotoent() is
?S: available to look up protocols in some data base or another.
?S:.
?C:HAS_GETPROTOENT:
?C: This symbol, if defined, indicates that the getprotoent() routine is
?C: available to look up protocols in some data base
 or another.
?C:.
?H:#$d_getpent HAS_GETPROTOENT  /**/
?H:.
?LINT:set d_getpent
: see if getprotoent exists
set getprotoent d_getpent
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_getpent.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: modetype.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:25:07  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:modetype: Myread Typedef
```

```
?MAKE: -pick add $@ %<
?S:modetype:
?S: This variable defines modetype to be something like mode_t,
?S: int, unsigned short, or whatever type is used to declare file
?S: modes for system calls.
?S:.
?C:Mode_t:
?C: This symbol holds the type used to declare file modes
?C: for systems calls.
  It is usually mode_t, but may be
?C: int or unsigned short.  It may be necessary to include <sys/types.h>
?C: to get any typedef'ed information.
?C:.
?H:#define Mode_t $modetype  /* file mode parameter for system calls */
?H:.
: see what type is used for mode_t
set mode_t modetype int stdio.h sys/types.h
eval $typedef
dflt="$modetype"
echo " "
rp="What type is used for file modes?"
. ./myread
modetype="$ans"
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/modetype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fegetround: Inlibc
?MAKE: -pick add $@ %<
?S:d_fegetround:
?S: This variable conditionally defines HAS_FEGETROUND if fegetround() is
?S: available to get the floating point rounding mode.
?S:.
?C:HAS_FEGETROUND:
?C: This symbol, if defined, indicates that the fegetround routine is
?C: available to return the macro corresponding to the current rounding
?C: mode.
?C:.
?H:#$d_fegetround HAS_FEGETROUND /**/
?H:.
?LINT:set d_fegetround
: see if fegetround exists
set fegetround d_fegetround
```

```
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fegetround.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getenv_thread.U,v 0RCS:
?RCS: Copyright (c) 2021 H.Merijn Brand, Karl Williamson
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getenv_preserves_other_thread: echo cat i_stdlib i_pthread run rm_try \
 Compile Setvar
?MAKE: -pick add $@ %<
?S:d_getenv_preserves_other_thread:
?S: This variable conditionally defines the GETENV_PRESERVES_OTHER_THREAD
?S: symbol, which indicates to the C program that the getenv() system call
?S: does not zap the static buffer in a different thread.
?S:.
?C:GETENV_PRESERVES_OTHER_THREAD:
?C: This symbol, if defined, indicates that the getenv system call doesn't
?C: zap the static buffer of getenv() in a different thread.
?C:
?C: The typical getenv() implementation will return a pointer to the proper
?C: position in **environ.  But some may instead copy them to
 a static
?C: buffer in getenv().  If there is a per-thread instance of that buffer,
?C: or the return points to **environ, then a many-reader/1-writer mutex
?C: will work; otherwise an exclusive locking mutex is required to prevent
?C: races.
?C:.
?H:#$d_getenv_preserves_other_thread GETENV_PRESERVES_OTHER_THREAD /**/
?H:.
?T:rc
?F:!try
?LINT:set d_getenv_preserves_other_thread
: check for getenv behavior
case "$d_getenv_preserves_other_thread" in
")
$echo "Checking to see if getenv() preserves a different thread's results" >&4
$cat >try.c <<EOCP
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#  include <stdlib.h>
#endif
#include <stdio.h>
```

```
#include <string.h>
#$i_pthread I_PTHREAD
#ifdef I_PTHREAD
#  include <pthread.h>
#endif

void *
thread_start(void * arg)
{
   (void *) getenv("HOME");
}

int main() {
   char * main_buffer;
   char save_main_buffer[1000];
   pthread_t subthread;
   pthread_attr_t attr;

   main_buffer = getenv("PATH");

   /* If too large for our generous allowance, return
 we couldn't figure it
    * out. */
   if (strlen(main_buffer) >= sizeof(save_main_buffer)) {
       exit(2);
   }

   strcpy(save_main_buffer, main_buffer);

   if (pthread_attr_init(&attr) != 0) {
       exit(2);
   }

   if (pthread_create(&subthread, &attr, thread_start, NULL) != 0) {
       exit(2);
   }

   if (pthread_join(subthread, NULL) != 0) {
       exit(2);
   }

   exit(! strcmp(main_buffer, save_main_buffer) == 0);
}
EOCP
val=
set try
if eval $compile_ok; then
   $run ./try
```

```
  rc=$?
  case "$rc" in
 0) echo "getenv() didn't destroy another thread's buffer" >&4
   val=$define
   ;;
 1) echo "getenv() does destroy another thread's buffer" >&4
   val=$undef
   ;;
 *) echo "Couldn't determine if getenv() destroys another thread's return value (code=$rc); assuming it does" >&4
   val=$undef
   ;;
  esac
else
  echo "(I can't seem to compile the test program.)" >&4
  echo "Assuming that your C library's getenv destroys another thread's return
 value." >&4
  val=$undef
fi
set d_getenv_preserves_other_thread
eval $setvar
$rm_try
;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getenv_thread.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libperl.U,v $
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:libperl useshrplib shrpenv ldlibpthname: \
 Myread Oldconfig archlibexp awk cat libc \
 _a osname osvers so patchlevel subversion usedl ld \
 ccdlflags installarchlib userelocatableinc
?MAKE: -pick wipe $@ %<
?S:libperl:
?S: The perl executable is obtained by linking perlmain.c with
?S: libperl, any static extensions (usually just DynaLoader),
?S: and any other libraries needed on this system.  libperl
?S: is usually libperl.a, but can also be libperl.so.xxx if
?S: the user wishes to build a perl executable with a shared
?S: library.
```

```
?S:.
?S:useshrplib:
?S: This variable is set to 'true' if the user wishes
?S: to build a shared libperl, and 'false' otherwise.
?S:.
?S:shrpenv:
?S: If
 the user builds a shared libperl.so, then we need to tell the
?S: 'perl' executable where it will be able to find the installed libperl.so.
?S: One way to do this on some systems is to set the environment variable
?S: LD_RUN_PATH to the directory that will be the final location of the
?S: shared libperl.so.  The makefile can use this with something like
?S:  $shrpenv $(CC) -o perl perlmain.o $libperl $libs
?S: Typical values are
?S:  shrpenv="env LD_RUN_PATH=$archlibexp/CORE"
?S: or
?S:  shrpenv=''
?S: See the main perl Makefile.SH for actual working usage.
?S:
?S: Alternatively, we might be able to use a command line option such
?S: as -R $archlibexp/CORE (Solaris) or -Wl,-rpath
?S: $archlibexp/CORE (Linux).
?S:.
?S:ldlibpthname:
?S: This variable holds the name of the shared library
?S: search path, often LD_LIBRARY_PATH.  To get an empty
?S: string, the hints file must set this to 'none'.
?S:.
?T:shrpdir majonly majmin also xxx tmp_shrpenv
?X: metalint gets confused and thinks we're
 actually setting LDOPTS
?X: and LD_RUN_PATH.
?LINT:extern LDOPTS
?LINT:change LDOPTS
?LINT:extern LD_RUN_PATH
?LINT:change LD_RUN_PATH
?LINT:change ccdlflags
?LINT:extern maintloc maintname
?Y:top
: Do we want a shared libperl?
also=''
case "$usedl" in
$undef)
 # No dynamic loading being used, so don't bother even to prompt.
 useshrplib='false'
 ;;
*) case "$useshrplib" in
 '') case "$osname" in
```

```
  svr4*|nonstopux|dgux|dynixptx|esix|powerux|haiku|cygwin*)
   dflt=y
   also='Building a shared libperl is required for dynamic loading to work on your system.'
   ;;
  *) dflt=n
   ;;
  esac
  ;;
 $define|true|[Yy]*)
  dflt=y
  ;;
 *) dflt=n
  ;;
 esac
 $cat << EOM

The perl executable is normally obtained by linking perlmain.c with
libperl${_a}, any static extensions (usually just DynaLoader), and
any other libraries needed on this system (such as -lm, etc.).  Since
your system supports dynamic loading, it is probably possible to build
a shared libperl.$so.  If you will have more than one
 executable linked
to libperl.$so, this will significantly reduce the size of each
executable, but it may have a noticeable effect on performance.  The
default is probably sensible for your system.
$also

EOM
 rp="Build a shared libperl.$so (y/n)"
 . ./myread
 case "$ans" in
 true|$define|[Yy]*)
  useshrplib='true'  ;;
 *) useshrplib='false' ;;
 esac
 ;;
esac

case "$useshrplib" in
true)
 case "$userelocatableinc" in
 true|define)
  echo "Cannot build with both -Duserelocatableinc and -Duseshrplib" >&4
  echo "See INSTALL for an explanation why that won't work." >&4
  exit 4
  ;;
 esac
 case "$libperl" in
```

```
")
 # Figure out a good name for libperl.so.  Since it gets stored in
 # a version-specific architecture-dependent library, the version
 # number isn't really that important, except for making cc/ld happy.
 #
 # A name such as libperl.so.10.1
 majmin="libperl.$so.$patchlevel.$subversion"
 # A name such as libperl.so.100
 majonly=`echo $patchlevel $subversion |
  $awk '{printf
"%d%02d", $1, $2}'`
 majonly=libperl.$so.$majonly
 # I'd prefer to keep the os-specific stuff here to a minimum, and
 # rely on figuring it out from the naming of libc.
 case "${osname}${osvers}" in
 *linux*|gnu*)  # ld won't link with a bare -lperl otherwise.
  dflt=libperl.$so
  ;;
 cygwin*) # ld links now against the dll directly
  majmin="cygperl5_${patchlevel}_${subversion}.${so}"
  majonly=`echo $patchlevel $subversion |
   $awk '{printf "%03d%03d", $1, $2}'`
  majonly=cygperl5.$majonly.$so
  dflt=$majmin
  ;;
 *) # Try to guess based on whether libc has major.minor.
  case "$libc" in
  *libc.$so.[0-9]*.[0-9]*) dflt=$majmin ;;
  *libc.$so.[0-9]*) dflt=$majonly ;;
  *) dflt=libperl.$so ;;
  esac
  ;;
 esac
 ;;
*) dflt=$libperl
 ;;
esac
cat << EOM

I need to select a good name for the shared libperl.  If your system uses
library names with major and minor numbers, then you might want something
like $majmin.  Alternatively, if your system uses a single
 version
number for shared libraries, then you might want to use $majonly.
Or, your system might be quite happy with a simple libperl.$so.

Since the shared libperl will get installed into a version-specific
architecture-dependent directory, the version number of the shared perl
```

```
library probably isn't important, so the default should be o.k.

EOM
 rp='What name do you want to give to the shared libperl?'
 . ./myread
 libperl=$ans
 echo "Ok, I'll use $libperl"
 ;;
*)
 libperl="libperl${_a}"
 ;;
esac

# Detect old use of shrpdir via undocumented Configure -Dshrpdir
case "$shrpdir" in
") ;;
*) $cat >&4 <<EOM
WARNING:  Use of the shrpdir variable for the installation location of
the shared $libperl is not supported.  It was never documented and
will not work in this version.  Let me (<$maintloc>)
know of any problems this may cause.

EOM
 case "$shrpdir" in
 "$archlibexp/CORE")
  $cat >&4 <<EOM
But your current setting of $shrpdir is
the default anyway, so it's harmless.
EOM
  ;;
 *)
  $cat
 >&4 <<EOM
Further, your current attempted setting of $shrpdir
conflicts with the value of $archlibexp/CORE
that installperl will use.
EOM
  ;;
 esac
 ;;
esac

# How will the perl executable find the installed shared $libperl?
# Add $xxx to ccdlflags.
# If we can't figure out a command-line option, use $shrpenv to
# set env LD_RUN_PATH.  The main perl makefile uses this.
shrpdir=$archlibexp/CORE
xxx="
```

```
tmp_shrpenv="
if "$useshrplib"; then
   case "$osname" in
 aix)
  # We'll set it in Makefile.SH...
  ;;
 solaris)
  xxx="-R $shrpdir"
  ;;
 freebsd|minix|mirbsd|netbsd|openbsd|interix|dragonfly|bitrig)
  xxx="-Wl,-R$shrpdir"
  ;;
 bsdos|linux|irix*|dec_osf|gnu*|haiku)
  xxx="-Wl,-rpath,$shrpdir"
  ;;
 hpux*)
  # hpux doesn't like the default, either.
  tmp_shrpenv="env LDOPTS=\"+s +b${shrpdir}\""
  ;;
 cygwin)
  # cygwin needs only ldlibpth
  ;;
 *)
  tmp_shrpenv="env LD_RUN_PATH=$shrpdir"
  ;;
 esac
 case "$xxx" in
 ") ;;
 *)
  # Only add $xxx if it isn't already in ccdlflags.
  case
 " $ccdlflags " in
  *" $xxx "*) ;;
  *) ccdlflags="$ccdlflags $xxx"
   cat <<EOM >&4

Adding $xxx to the flags
passed to $ld so that the perl executable will find the
installed shared $libperl.

EOM
   ;;
  esac
  ;;
 esac
fi
# Fix ccdlflags in AIX for building external extensions.
# (For building Perl itself bare -bE:perl.exp is needed,
```

```
#  Makefile.SH takes care of this.)
case "$osname" in
aix) ccdlflags="$ccdlflags -bE:$installarchlib/CORE/perl.exp" ;;
esac
# Respect a hint or command-line value.
case "$shrpenv" in
") shrpenv="$tmp_shrpenv" ;;
esac
case "$ldlibpthname" in
") ldlibpthname=LD_LIBRARY_PATH ;;
none) ldlibpthname=" ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/libperl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2005 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_unsetenv: Inlibc
?MAKE: -pick add $@ %<
?S:d_unsetenv:
?S: This variable conditionally defines the HAS_UNSETENV symbol, which
?S: indicates to the C program that the unsetenv () routine is available.
?S:.
?C:HAS_UNSETENV:
?C: This symbol, if defined, indicates that the unsetenv () routine is
?C: available for use.
?C:.
?H:#$d_unsetenv HAS_UNSETENV  /**/
?H:.
?LINT:set d_unsetenv
: see if unsetenv exists
set unsetenv d_unsetenv
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_unsetenv.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_socket.U,v 3.0.1.2 1997/02/28 15:46:00 ram Exp $
```

```
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: d_socket.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:46:00  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:08:04  ram
?RCS: patch16: can now safely declare private nm_extract in dependencies
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_socket d_oldsock d_sockpair socketlib sockethdr \
 d_msg_ctrunc d_msg_dontroute d_msg_oob d_msg_peek
 d_msg_proxy \
 d_scm_rights d_sockaddr_sa_len d_sockaddr_in6 d_sin6_scope_id \
 d_ip_mreq d_ip_mreq_source d_ipv6_mreq d_ipv6_mreq_source \
 d_sockaddr_storage: \
 contains echo n c ar nm nm_opt nm_extract Inlibc Csym _a \
 Compile cat rm_try Setvar Hasfield sysroot
?MAKE: -pick add $@ %<
?S:d_socket:
?S: This variable conditionally defines HAS_SOCKET, which indicates
?S: that the BSD socket interface is supported.
?S:.
?S:d_sockpair:
?S: This variable conditionally defines the HAS_SOCKETPAIR symbol, which
?S: indicates that the BSD socketpair() is supported.
?S:.
?S:d_oldsock:
?S: This variable conditionally defines the OLDSOCKET symbol, which
?S: indicates that the BSD socket interface is based on 4.1c and not 4.2.
?S:.
?S:d_msg_ctrunc:
?S: This variable conditionally defines the HAS_MSG_CTRUNC symbol,
?S: which indicates that the MSG_CTRUNC is available.  #ifdef is
?S: not enough because it may be an enum, glibc has been known to do this.
?S:.
?S:d_msg_dontroute:
?S: This variable
```

```
 conditionally defines the HAS_MSG_DONTROUTE symbol,
?S: which indicates that the MSG_DONTROUTE is available.  #ifdef is
?S: not enough because it may be an enum, glibc has been known to do this.
?S:.
?S:d_msg_oob:
?S: This variable conditionally defines the HAS_MSG_OOB symbol,
?S: which indicates that the MSG_OOB is available.  #ifdef is
?S: not enough because it may be an enum, glibc has been known to do this.
?S:.
?S:d_msg_peek:
?S: This variable conditionally defines the HAS_MSG_PEEK symbol,
?S: which indicates that the MSG_PEEK is available.  #ifdef is
?S: not enough because it may be an enum, glibc has been known to do this.
?S:.
?S:d_msg_proxy:
?S: This variable conditionally defines the HAS_MSG_PROXY symbol,
?S: which indicates that the MSG_PROXY is available.  #ifdef is
?S: not enough because it may be an enum, glibc has been known to do this.
?S:.
?S:d_scm_rights:
?S: This variable conditionally defines the HAS_SCM_RIGHTS symbol,
?S: which indicates that the SCM_RIGHTS is available.
  #ifdef is
?S: not enough because it may be an enum, glibc has been known to do this.
?S:.
?S:d_sockaddr_sa_len:
?S: This variable conditionally defines the HAS_SOCKADDR_SA_LEN symbol,
?S: which indicates that a struct sockaddr structure has the sa_len
?S: member.
?S:.
?S:d_sockaddr_in6:
?S: This variable conditionally defines the HAS_SOCKADDR_IN6 symbol, which
?S: indicates the availability of a struct sockaddr_in6.
?S:.
?S:d_sockaddr_storage:
?S: This variable conditionally defines the HAS_SOCKADDR_STORAGE symbol,
?S: which indicates the availability of a struct sockaddr_storage.
?S:.
?S:d_sin6_scope_id:
?S: This variable conditionally defines the HAS_SIN6_SCOPE_ID symbol, which
?S: indicates that a struct sockaddr_in6 structure has the sin6_scope_id
?S: member.
?S:.
?S:d_ip_mreq:
?S: This variable conditionally defines the HAS_IP_MREQ symbol, which
?S: indicates the availability of a struct ip_mreq.
?S:.
?S:d_ip_mreq_source:
```

```
?S: This variable conditionally defines the HAS_IP_MREQ_SOURCE
 symbol,
?S: which indicates the availability of a struct ip_mreq_source.
?S:.
?S:d_ipv6_mreq:
?S: This variable conditionally defines the HAS_IPV6_MREQ symbol, which
?S: indicates the availability of a struct ipv6_mreq.
?S:.
?S:d_ipv6_mreq_source:
?S: This variable conditionally defines the HAS_IPV6_MREQ_SOURCE symbol,
?S: which indicates the availability of a struct ipv6_mreq_source.
?S:.
?S:socketlib:
?S: This variable has the names of any libraries needed for socket support.
?S:.
?S:sockethdr:
?S: This variable has any cpp '-I' flags needed for socket support.
?S:.
?C:HAS_SOCKET (SOCKET):
?C: This symbol, if defined, indicates that the BSD socket interface is
?C: supported.
?C:.
?C:HAS_SOCKETPAIR (SOCKETPAIR):
?C: This symbol, if defined, indicates that the BSD socketpair() call is
?C: supported.
?C:.
?C:USE_OLDSOCKET (OLDSOCKET):
?C: This symbol, if defined, indicates that the 4.1c BSD socket interface
?C: is supported instead of the 4.2/4.3 BSD socket interface. For instance,
?C: there
 is no setsockopt() call.
?C:.
?C:HAS_MSG_CTRUNC:
?C: This symbol, if defined, indicates that the MSG_CTRUNC is supported.
?C: Checking just with #ifdef might not be enough because this symbol
?C: has been known to be an enum.
?C:.
?C:HAS_MSG_DONTROUTE:
?C: This symbol, if defined, indicates that the MSG_DONTROUTE is supported.
?C: Checking just with #ifdef might not be enough because this symbol
?C: has been known to be an enum.
?C:.
?C:HAS_MSG_OOB:
?C: This symbol, if defined, indicates that the MSG_OOB is supported.
?C: Checking just with #ifdef might not be enough because this symbol
?C: has been known to be an enum.
?C:.
?C:HAS_MSG_PEEK:
```

```
?C: This symbol, if defined, indicates that the MSG_PEEK is supported.
?C: Checking just with #ifdef might not be enough because this symbol
?C: has been known to be an enum.
?C:.
?C:HAS_MSG_PROXY:
?C: This symbol, if defined, indicates that the MSG_PROXY is supported.
?C: Checking just with #ifdef might not be enough because this
 symbol
?C: has been known to be an enum.
?C:.
?C:HAS_SCM_RIGHTS:
?C: This symbol, if defined, indicates that the SCM_RIGHTS is supported.
?C: Checking just with #ifdef might not be enough because this symbol
?C: has been known to be an enum.
?C:.
?C:HAS_SOCKADDR_SA_LEN:
?C: This symbol, if defined, indicates that the struct sockaddr
?C: structure has a member called sa_len, indicating the length of
?C: the structure.
?C:.
?C:HAS_SOCKADDR_IN6:
?C: This symbol, if defined, indicates the availability of
?C: struct sockaddr_in6;
?C:.
?C:HAS_SOCKADDR_STORAGE:
?C: This symbol, if defined, indicates the availability of
?C: struct sockaddr_storage;
?C:.
?C:HAS_SIN6_SCOPE_ID:
?C: This symbol, if defined, indicates that the struct sockaddr_in6
?C: structure has a member called sin6_scope_id.
?C:.
?C:HAS_IP_MREQ:
?C: This symbol, if defined, indicates the availability of
?C: struct ip_mreq;
?C:.
?C:HAS_IP_MREQ_SOURCE:
?C: This symbol, if defined, indicates the availability of
?C: struct ip_mreq_source;
?C:.
?C:HAS_IPV6_MREQ:
?C: This
 symbol, if defined, indicates the availability of
?C: struct ipv6_mreq;
?C:.
?C:HAS_IPV6_MREQ_SOURCE:
?C: This symbol, if defined, indicates the availability of
?C: struct ipv6_mreq_source;
```

```
?C:.
?H:#$d_socket HAS_SOCKET  /**/
?H:#$d_sockpair HAS_SOCKETPAIR /**/
?H:#$d_sockaddr_sa_len HAS_SOCKADDR_SA_LEN /**/
?H:#$d_oldsock USE_OLDSOCKET /**/
?H:#$d_msg_ctrunc HAS_MSG_CTRUNC /**/
?H:#$d_msg_dontroute HAS_MSG_DONTROUTE /**/
?H:#$d_msg_oob HAS_MSG_OOB /**/
?H:#$d_msg_peek HAS_MSG_PEEK /**/
?H:#$d_msg_proxy HAS_MSG_PROXY /**/
?H:#$d_scm_rights HAS_SCM_RIGHTS /**/
?H:#$d_sockaddr_in6 HAS_SOCKADDR_IN6 /**/
?H:#$d_sockaddr_storage HAS_SOCKADDR_STORAGE /**/
?H:#$d_sin6_scope_id HAS_SIN6_SCOPE_ID /**/
?H:#$d_ip_mreq HAS_IP_MREQ /**/
?H:#$d_ip_mreq_source HAS_IP_MREQ_SOURCE /**/
?H:#$d_ipv6_mreq HAS_IPV6_MREQ /**/
?H:#$d_ipv6_mreq_source HAS_IPV6_MREQ_SOURCE /**/
?H:.
?T:val net ENUM enum
?LINT:set d_sockpair d_sockaddr_sa_len
?LINT:set d_msg_ctrunc d_msg_dontroute
 d_msg_oob d_msg_peek d_msg_proxy
?LINT:set d_scm_rights d_sockaddr_in6 d_sin6_scope_id d_ip_mreq
?LINT:set d_ip_mreq_source d_ipv6_mreq d_ipv6_mreq_source d_sockaddr_storage
: see whether socket exists
socketlib=''
sockethdr=''
echo " "
$echo $n "Hmm... $c" >&4
if set socket val -f d_socket; eval $csym; $val; then
   echo "Looks like you have Berkeley networking support." >&4
   d_socket="$define"
?X: now check for advanced features
   if set setsockopt val -f; eval $csym; $val; then
 d_oldsock="$undef"
   else
 echo "...but it uses the old BSD 4.1c interface, rather than 4.2." >&4
 d_oldsock="$define"
   fi
else
?X: HP-UX, for one, puts all the socket stuff in socklib.o. Note that if we
?X: come here on HP-UX, then we must have used nm to get symbols, or we really
?X: don't have sockets anyway...
   if $contains socklib libc.list >/dev/null 2>&1; then
 echo "Looks like you have Berkeley networking support." >&4
 d_socket="$define"
 : we will have to assume that it supports
```

```
 the 4.2 BSD interface
 d_oldsock="$undef"
   else
 echo "You don't have Berkeley networking in libc$_a..." >&4
?X: look for optional networking libraries
 if test "X$d_socket" = "X$define"; then
     echo "...but you seem to believe that you have sockets." >&4
 else
     for net in net socket
     do
  if test -f $sysroot/usr/lib/lib$net$_a; then
?X: space between two  '(' needed for ksh
      ( ($nm $nm_opt $sysroot/usr/lib/lib$net$_a | eval $nm_extract) ||  \
      $ar t $sysroot/usr/lib/lib$net$_a) 2>/dev/null >> libc.list
      if $contains socket libc.list >/dev/null 2>&1; then
   d_socket="$define"
   socketlib="-l$net"
   case "$net" in
   net)
       echo "...but the Wollongong group seems to have hacked it in." >&4
       sockethdr="-I$sysroot/usr/netinclude"
       ;;
   esac
   echo "Found Berkeley sockets interface in lib$net." >&4
?X: now check for advanced features
   if $contains setsockopt libc.list >/dev/null 2>&1; then
       d_oldsock="$undef"
   else
       echo
 "...using the old BSD 4.1c interface, rather than 4.2." >&4
       d_oldsock="$define"
   fi
   break
      fi
  fi
     done
     if test "X$d_socket" != "X$define"; then
        echo "or anywhere else I see." >&4
        d_socket="$undef"
        d_oldsock="$undef"
     fi
 fi
   fi
fi

@if HAS_SOCKETPAIR || d_sockpair
: see if socketpair exists
set socketpair d_sockpair
```

```
eval $inlibc

@end

echo "Checking the availability sa_len in the sock struct ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
int main() {
struct sockaddr sa;
return (sa.sa_len);
}
EOF
val="$undef"
set try; if eval $compile; then
   val="$define"
fi
set d_sockaddr_sa_len; eval $setvar
$rm_try

echo "Checking the availability struct sockaddr_in6 ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct sockaddr_in6 sin6;
return (sin6.sin6_family);
}
EOF
val="$undef"
set try; if eval $compile; then
   val="$define"
fi
set d_sockaddr_in6;
 eval $setvar
$rm_try

echo "Checking the availability struct sockaddr_storage ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct sockaddr_storage sastor;
return (sastor.ss_family);
}
EOF
```

```
val="$undef"
set try; if eval $compile; then
   val="$define"
fi
set d_sockaddr_storage; eval $setvar
$rm_try

echo "Checking the availability sin6_scope_id in struct sockaddr_in6 ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct sockaddr_in6 sin6;
return (sin6.sin6_scope_id);
}
EOF
val="$undef"
set try; if eval $compile; then
   val="$define"
fi
set d_sin6_scope_id; eval $setvar
$rm_try

echo "Checking the availability struct ip_mreq ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct ip_mreq mreq;
return (mreq.imr_multiaddr.s_addr);
}
EOF
val="$undef"
set try; if eval $compile; then

 val="$define"
fi
set d_ip_mreq; eval $setvar
$rm_try

echo "Checking the availability struct ip_mreq_source ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
```

```
struct ip_mreq_source mreq;
return (mreq.imr_multiaddr.s_addr);
}
EOF
val="$undef"
set try; if eval $compile; then
	val="$define"
fi
set d_ip_mreq_source; eval $setvar
$rm_try

echo "Checking the availability struct ipv6_mreq ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct ipv6_mreq mreq;
return (mreq.ipv6mr_interface);
}
EOF
val="$undef"
set try; if eval $compile; then
	val="$define"
fi
set d_ipv6_mreq; eval $setvar
$rm_try

echo "Checking the availability struct ipv6_mreq_source ..." >&4
$cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
int main() {
struct ipv6_mreq_source mreq;
return (mreq.imr_multiaddr.s_addr);
}
EOF
val="$undef"
set try; if eval $compile;
 then
	val="$define"
fi
set d_ipv6_mreq_source; eval $setvar
$rm_try

?X: these constants are known to be troublesomely defined as enums
?X: so that ifdef will not work for detecting their presence.
```

```
echo "Checking the availability of certain socket constants..." >&4
for ENUM in MSG_CTRUNC MSG_DONTROUTE MSG_OOB MSG_PEEK MSG_PROXY SCM_RIGHTS; do
   enum=`$echo $ENUM|./tr '[A-Z]' '[a-z]'`
   $cat >try.c <<EOF
#include <sys/types.h>
#include <sys/socket.h>
int main() {
   int i = $ENUM;
}
EOF
   val="$undef"
   set try; if eval $compile; then
 val="$define"
   fi
   set d_${enum}; eval $setvar
   $rm_try
done
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_socket.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:i_poll: Inhdr
?MAKE: -pick add $@ %<
?S:i_poll:
?S: This variable conditionally defines the I_POLL symbol, which
?S: indicates to the C program that it should include <poll.h>.
?S:.
?C:I_POLL:
?C: This symbol, if defined, indicates that the program may include
?C: <poll.h>.  If there is no <poll.h>, then you may check I_SYS_POLL
?C: instead to see whether there is a <sys/poll.h> to include.
?C:.
?H:#$i_poll I_POLL /**/
?H:.
?LINT:set i_poll
: see if there is a poll.h file
```

```
set poll.h i_poll
eval $inhdr

Found
 in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_poll.U
No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_nan: Inlibc
?MAKE: -pick add $@ %<
?S:d_nan:
?S: This variable conditionally defines HAS_NAN if nan() is
?S: available to generate NaN.
?S:.
?C:HAS_NAN:
?C: This symbol, if defined, indicates that the nan routine is
?C: available to generate NaN.
?C:.
?H:#$d_nan HAS_NAN  /**/
?H:.
?LINT:set d_nan
: see if nan exists
set nan d_nan
eval $inlibc

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_nan.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Setvar.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Setvar.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  15:58:28  ram
?RCS: patch36: call ./whoa explicitly instead of relying on PATH
?RCS:
```

```
?RCS: Revision 3.0  1993/08/18  12:05:16  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a variable that is intended to be eval'ed in
?X: order to define/undefine a symbol. A consistency check is made
?X: regarding any previous value and a warning is issued if there
?X: is any discrepancy.
?X:
?X:
 To use it, say:
?X: val=<value>
?X: set d_variable
?X: eval $setvar
?X:
?MAKE:Setvar: Whoa
?MAKE: -pick add $@ %<
?LINT:define setvar
?S:setvar:
?S: This shell variable is used internally by Configure to set a value
?S: to a given symbol that is defined or not. A typical use is:
?S: val=<value computed>
?S:  set d_variable
?S:  eval $setvar
?S: That will print a message in case the $val value is not the same
?S: as the previous value of $d_variable.
?S:.
?V:setvar:val
?T:var was td tu
: function used to set '$1' to '$val'
setvar='var=$1; eval "was=\$$1"; td=$define; tu=$undef;
case "$val$was" in
$define$undef) . ./whoa; eval "$var=\$td";;
$undef$define) . ./whoa; eval "$var=\$tu";;
*) eval "$var=$val";;
esac'
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Setvar.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: nblock_io.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:17:14  ram
?RCS: patch61: simplify here document for shells that can't handle them well
?RCS: patch61: force use of "startsh" at the head of the generated script
?RCS: patch61: added new files to the ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.1  1995/07/25  14:13:22  ram
?RCS: patch56: created
?RCS:
?X:
?X: Simplify here document for shells that can't handle them well.
?X: (Problem reported on FreeBSD; it's unclear if this helps.)  --AD
?X:
?MAKE:o_nonblock
 eagain rd_nodata d_eofnblk: cat rm_try +cc +ccflags +ldflags \
 d_open3 h_sysfile h_fcntl signal_t hint Oldconfig Setvar startsh Warn
?MAKE: -pick add $@ %<
?S:o_nonblock:
?S: This variable bears the symbol value to be used during open() or fcntl()
?S: to turn on non-blocking I/O for a file descriptor. If you wish to switch
?S: between blocking and non-blocking, you may try ioctl(FIOSNBIO) instead,
?S: but that is only supported by some devices.
?S:.
?S:eagain:
?S: This variable bears the symbolic errno code set by read() when no
?S: data is present on the file and non-blocking I/O was enabled (otherwise,
?S: read() blocks naturally).
?S:.
?S:rd_nodata:
?S: This variable holds the return code from read() when no data is
?S: present. It should be -1, but some systems return 0 when O_NDELAY is
?S: used, which is a shame because you cannot make the difference between
?S: no data and an EOF.. Sigh!
?S:.
?S:d_eofnblk:
?S: This variable conditionally defines EOF_NONBLOCK
 if EOF can be seen
?S: when reading from a non-blocking I/O source.
?S:.
?C:VAL_O_NONBLOCK:
?C: This symbol is to be used during open() or fcntl(F_SETFL) to turn on
?C: non-blocking I/O for the file descriptor. Note that there is no way
?C: back, i.e. you cannot turn it blocking again this way. If you wish to
?C: alternatively switch between blocking and non-blocking, use the
```

```
?C: ioctl(FIOSNBIO) call instead, but that is not supported by all devices.
?C:.
?C:VAL_EAGAIN:
?C: This symbol holds the errno error code set by read() when no data was
?C: present on the non-blocking file descriptor.
?C:.
?C:RD_NODATA:
?C: This symbol holds the return code from read() when no data is present
?C: on the non-blocking file descriptor. Be careful! If EOF_NONBLOCK is
?C: not defined, then you can't distinguish between no data and EOF by
?C: issuing a read(). You'll have to find another way to tell for sure!
?C:.
?C:EOF_NONBLOCK:
?C: This symbol, if defined, indicates to the C program that a read() on
?C: a
 non-blocking file descriptor will return 0 on EOF, and not the value
?C: held in RD_NODATA (-1 usually, in that case!).
?C:.
?H:#define VAL_O_NONBLOCK $o_nonblock
?H:#define VAL_EAGAIN $eagain
?H:#define RD_NODATA $rd_nodata
?H:#$d_eofnblk EOF_NONBLOCK
?H:.
?F:!try !try.out !try.ret !try.err !mtry
?T:status
?LINT:use d_open3
: check for non-blocking I/O stuff
case "$h_sysfile" in
true) echo "#include <sys/file.h>" > head.c;;
*)
 case "$h_fcntl" in
 true) echo "#include <fcntl.h>" > head.c;;
 *) echo "#include <sys/fcntl.h>" > head.c;;
 esac
 ;;
esac
echo " "
echo "Figuring out the flag used by open() for non-blocking I/O..." >&4
case "$o_nonblock" in
")
 $cat head.c > try.c
 $cat >>try.c <<'EOCP'
int main() {
#ifdef O_NONBLOCK
 printf("O_NONBLOCK\n");
 exit(0);
#endif
#ifdef O_NDELAY
```

```
 printf("O_NDELAY\n");
 exit(0);
#endif
?X: Stevens "Advanced Programming in the UNIX Environment" page 364 mentions
?X: the FNDELAY symbol, used in 4.33BSD (source: Paul Marquess).
#ifdef FNDELAY
 printf("FNDELAY\n");
 exit(0);
#endif
 exit(0);
}
EOCP
 if
 $cc $ccflags $ldflags -o try try.c >/dev/null 2>&1; then
  o_nonblock=`./try`
  case "$o_nonblock" in
  ") echo "I can't figure it out, assuming O_NONBLOCK will do.";;
  *) echo "Seems like we can use $o_nonblock.";;
  esac
 else
  echo "(I can't compile the test program; pray O_NONBLOCK is right!)"
 fi
 ;;
*) echo "Using $hint value $o_nonblock.";;
esac
$rm_try

echo " "
echo "Let's see what value errno gets from read() on a $o_nonblock file..." >&4
case "$eagain" in
")
 $cat head.c > try.c
 $cat >>try.c <<EOCP
#include <errno.h>
#include <sys/types.h>
#include <signal.h>
#define MY_O_NONBLOCK $o_nonblock
extern int errno;
$signal_t blech(x) int x; { exit(3); }
EOCP
 $cat >> try.c <<'EOCP'
int main()
{
 int pd[2];
 int pu[2];
 char buf[1];
 char string[100];
```

```
 pipe(pd); /* Down: child -> parent */
 pipe(pu); /* Up: parent -> child */
 if (0 != fork()) {
  int ret;
  close(pd[1]); /* Parent reads from pd[0] */
  close(pu[0]); /*
 Parent writes (blocking) to pu[1] */
  if (-1 == fcntl(pd[0], F_SETFL, MY_O_NONBLOCK))
   exit(1);
  signal(SIGALRM, blech);
  alarm(5);
  if ((ret = read(pd[0], buf, 1)) > 0) /* Nothing to read! */
   exit(2);
  sprintf(string, "%d\n", ret);
  write(2, string, strlen(string));
  alarm(0);
#ifdef EAGAIN
  if (errno == EAGAIN) {
   printf("EAGAIN\n");
   goto ok;
  }
#endif
#ifdef EWOULDBLOCK
  if (errno == EWOULDBLOCK)
   printf("EWOULDBLOCK\n");
#endif
 ok:
  write(pu[1], buf, 1); /* Unblocks child, tell it to close our pipe */
  sleep(2);    /* Give it time to close our pipe */
  alarm(5);
  ret = read(pd[0], buf, 1); /* Should read EOF */
  alarm(0);
  sprintf(string, "%d\n", ret);
  write(3, string, strlen(string));
  exit(0);
 }

 close(pd[0]);   /* We write to pd[1] */
 close(pu[1]);   /* We read from pu[0] */
 read(pu[0], buf, 1); /* Wait for parent to signal us we may continue */
 close(pd[1]);   /* Pipe pd is now fully closed! */
 exit(0);    /* Bye bye, thank you for playing!
 */
}
EOCP
 if $cc $ccflags $ldflags -o try try.c >/dev/null 2>&1; then
?X: Use script to avoid the possible 'alarm call' message
  echo "$startsh" >mtry
```

```
 echo "./try >try.out 2>try.ret 3>try.err || exit 4" >>mtry
 chmod +x mtry
 ./mtry >/dev/null 2>&1
 case $? in
 0) eagain=`$cat try.out`;;
 1) echo "Could not perform non-blocking setting!";;
 2) echo "I did a successful read() for something that was not there!";;
 3) echo "Hmm... non-blocking I/O does not seem to be working!";;
 *) echo "Something terribly wrong happened during testing.";;
 esac
 rd_nodata=`$cat try.ret`
 echo "A read() system call with no data present returns $rd_nodata."
 case "$rd_nodata" in
 0|-1) ;;
 *)
  echo "(That's peculiar, fixing that to be -1.)"
  rd_nodata=-1
  ;;
 esac
 case "$eagain" in
 ")
  echo "Forcing errno EAGAIN on read() with no data available."
  eagain=EAGAIN
  ;;
 *)
  echo "Your read() sets errno to $eagain when no data is available."
  ;;
 esac
 status=`$cat
try.err`
 case "$status" in
 0) echo "And it correctly returns 0 to signal EOF.";;
 -1) echo "But it also returns -1 to signal EOF, so be careful!";;
 *) echo "However, your read() returns '$status' on EOF??";;
 esac
 val="$define"
 if test "$status" = "$rd_nodata"; then
  ./warn "your read() can't distinguish between EOF and no data!"
  val="$undef"
 fi
else
 echo "I can't compile the test program--assuming errno EAGAIN will do."
 eagain=EAGAIN
fi
set d_eofnblk
eval $setvar
;;
*)
```

```
 echo "Using $hint value $eagain."
 echo "Your read() returns $rd_nodata when no data is present."
 case "$d_eofnblk" in
 "$define") echo "And you can see EOF because read() returns 0.";;
 "$undef") echo "But you can't see EOF status from read() returned value.";;
 *)
?X: Should not happen, but if it does, assume the worst!
  echo "(Assuming you can't see EOF status from read anyway.)"
  d_eofnblk=$undef
  ;;
 esac
 ;;
esac
$rm_try head.c mtry
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/nblock_io.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysmode.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysmode: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysmode:
?S: This variable conditionally defines the I_SYSMODE symbol,
?S: and indicates whether a C program should include <sys/mode.h>.
?S:.
?C:I_SYSMODE:
?C: This symbol, if defined, indicates that <sys/mode.h> exists and
?C: should be included.
?C:.
?H:#$i_sysmode I_SYSMODE  /**/
?H:.
?LINT:set i_sysmode
: see if this is a sys/mode.h system
set sys/mode.h i_sysmode
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysmode.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: basicshell.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: basicshell.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:25  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:basicshell: Getfile Oldconfig bash csh ksh sh
?MAKE: -pick add $@ %<
?S:basicshell:
?S: This variable contains the eventual value of the BASICSHELL symbol,
?S: which contains the full name of the basic script shell on this
?S: system.  Usual values are /bin/sh, /bin/ksh, /bin/csh.
?S:.
?C:BASICSHELL:
?C: This symbol contains the
 full name of the basic script shell on this
?C: system.  Usual values are /bin/sh, /bin/ksh, /bin/csh.
?C:.
?H:#define BASICSHELL "$basicshell"  /**/
?H:.
: find the most basic shell for scripts
echo " "
case "$basicshell" in
")
 case "$sh $bash $csh $ksh" in
 */sh*) dflt="$sh" ;;
 */ksh*) dflt="$ksh" ;;
 */csh*) dflt="$csh" ;;
 */bash*) dflt="$bash" ;;
 *) dflt='/bin/sh' ;;
 esac
 ;;
*)
 dflt="$basicshell";;
esac
fn=f
rp="Give the full path name of the most basic shell used on your system"
. ./getfile
```

basicshell=$ans

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/basicshell.U
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_vfork.U,v $
?RCS: Revision 3.0.1.6 1994/08/29 16:18:21 ram
?RCS: patch32: set default to 'y' the first time
?RCS:
?RCS: Revision 3.0.1.5 1994/06/20 06:59:14 ram
?RCS: patch30: usevfork was not always properly set
?RCS:
?RCS: Revision 3.0.1.4 1994/05/13 15:20:56 ram
?RCS: patch27: modified to avoid spurious Whoa warnings (ADO)
?RCS:
?RCS: Revision 3.0.1.3 1994/05/06 14:59:09 ram
?RCS: patch23: now explicitly ask whether vfork() should be used (ADO)
?RCS:
?RCS: Revision 3.0.1.2 1993/10/16
  13:49:39 ram
?RCS: patch12: added magic for vfork()
?RCS:
?RCS: Revision 3.0.1.1 1993/09/13 16:06:57 ram
?RCS: patch10: removed automatic remapping of vfork on fork (WAD)
?RCS: patch10: added compatibility code for older config.sh (WAD)
?RCS:
?RCS: Revision 3.0 1993/08/18 12:07:55 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_vfork usevfork: Inlibc Myread Oldconfig Setvar
?MAKE: -pick add $@ %<
?S:d_vfork:
?S: This variable conditionally defines the HAS_VFORK symbol, which
?S: indicates the vfork() routine is available.
?S:.
?S:usevfork:

```
?S: This variable is set to true when the user accepts to use vfork.
?S: It is set to false when no vfork is available or when the user
?S: explicitly requests not to use vfork.
?S:.
?C:HAS_VFORK (VFORK):
?C: This symbol, if defined, indicates that vfork() exists.
?C:.
?H:#$d_vfork HAS_VFORK /**/
?H:.
?M:vfork: HAS_VFORK
?M:#ifndef HAS_VFORK
?M:#define vfork fork
?M:#endif
?M:.
?LINT:set d_vfork
: see if there is a vfork
val=''
set
 vfork val
eval $inlibc

: Ok, but do we want to use it. vfork is reportedly unreliable in
: perl on Solaris 2.x, and probably elsewhere.
case "$val" in
$define)
 echo " "
 case "$usevfork" in
 false) dflt='n';;
 *) dflt='y';;
 esac
 rp="Some systems have problems with vfork().  Do you want to use it?"
 . ./myread
 case "$ans" in
 y|Y) ;;
 *)
  echo "Ok, we won't use vfork()."
  val="$undef"
  ;;
 esac
 ;;
esac
?X:
?X: Only set it when final value is known to avoid spurious Whoas
?X: Then set usevfork accordingly to the current value, for next run
?X:
set d_vfork
eval $setvar
case "$d_vfork" in
```

```
$define) usevfork='true';;
*) usevfork='false';;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_vfork.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorhtml1dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorhtml1dir.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorhtml1dir vendorhtml1direxp installvendorhtml1dir: html1dir Getfile \
 Setprefixvar Oldconfig Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorhtml1dir:
?S: This variable contains the name of the directory for html
?S: pages.  It may have a ~ on the front.
?S: The standard distribution will put nothing in this
 directory.
?S: Vendors who distribute perl may wish to place their own
?S: html pages in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorhtml1direxp:
?S: This variable is the ~name expanded version of vendorhtml1dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorhtml1dir="
?S:installvendorhtml1dir:
?S: This variable is really the same as vendorhtml1direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
```

```
?LINT:set installvendorhtml1dir
: Set the vendorhtml1dir variables
case "$vendorprefix" in
") vendorhtml1dir="
 vendorhtml1direxp="
 ;;
*) : determine where vendor-supplied html pages go.
 : There is no standard location, so try to copy the previously-selected
 : directory structure for the core html pages.
 : XXX Better default suggestions would be welcome.
 case "$vendorhtml1dir"
 in
 ") dflt=`echo "$html1dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
 *) dflt=$vendorhtml1dir ;;
 esac
 case "$dflt" in
 "|' ') dflt=none ;;
 esac
 fn=dn+~
 rp='Pathname for the vendor-supplied html pages?'
 . ./getfile
 vendorhtml1dir="$ans"
 vendorhtml1direxp="$ansexp"
 ;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorhtml1dir" = "X" && vendorhtml1dir=' '
prefixvar=vendorhtml1dir
. ./installprefix
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/vendorhtml1dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_static_inline.U,v $
?RCS:
?RCS: Copyright (c) 2010 Andrew Dougherty
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafayette.edu>
?RCS:
?MAKE:d_static_inline perl_static_inline: Compile Setvar gccversion \
```

```
 cat echo run hint rm rm_try
?MAKE: -pick add $@ %<
?S:d_static_inline:
?S: This variable conditionally defines the HAS_STATIC_INLINE symbol,
?S: which indicates that the C compiler supports C99-style static
?S: inline.  That is, the function can't be called from another
?S: translation unit.
?S:.
?S:perl_static_inline:
?S: This variable defines the PERL_STATIC_INLINE
 symbol to
?S: the best-guess incantation to use for static inline functions.
?S: Possibilities include
?S:  static inline       (c99)
?S:  static __inline__   (gcc -ansi)
?S:  static __inline     (MSVC)
?S:  static _inline      (older MSVC)
?S:  static              (c89 compilers)
?S:.
?C:HAS_STATIC_INLINE :
?C: This symbol, if defined, indicates that the C compiler supports
?C: C99-style static inline.  That is, the function can't be called
?C: from another translation unit.
?C:.
?C:PERL_STATIC_INLINE:
?C: This symbol gives the best-guess incantation to use for static
?C: inline functions.  If HAS_STATIC_INLINE is defined, this will
?C: give C99-style inline.  If HAS_STATIC_INLINE is not defined,
?C: this will give a plain 'static'.  It will always be defined
?C: to something that gives static linkage.
?C: Possibilities include
?C:  static inline       (c99)
?C:  static __inline__   (gcc -ansi)
?C:  static __inline     (MSVC)
?C:  static _inline      (older MSVC)
?C:  static
        (c89 compilers)
?C:.
?H:#$d_static_inline HAS_STATIC_INLINE    /**/
?H:#define PERL_STATIC_INLINE $perl_static_inline /**/
?H:.
?LINT:set d_static_inline
?T:inline xxx
?F:!try
: see what flavor, if any, of static inline is supported
echo " "
echo "Checking to see if your system supports static inline..."
?X: Build two programs.  The first uses static inline in file a.c and
```

```
?X: should work.  The second also includes b.c which tries to link against
?X: the static function in a.c.  This should fail.
?X:.
$cat > try.c <<'EOCP'
#include <stdlib.h>
extern int f_via_a(int x);
extern int f_via_b(int x);
int main(int argc, char **argv)
{
   int y;

   y = f_via_a(0);
#ifdef USE_B
   y = f_via_b(0);
#endif
   if (y == 42) {
       return EXIT_SUCCESS;
   }
   else {
       return EXIT_FAILURE;
   }
}
EOCP
$cat > a.c <<'EOCP'
static INLINE int f(int x) {
   int y;
   y = x + 42;
   return y;
}

int f_via_a(int x)
{
   return f(x);
}
EOCP
$cat > b.c <<'EOCP'
extern int f(int x);

int
 f_via_b(int x)
{
   return f(x);
}
EOCP

# Respect a hint (or previous) value for perl_static_inline, if there is one.
case "$perl_static_inline" in
") # Check the various possibilities, and break out on success.
```

```
 # For gcc, prefer __inline__, which will still permit
 # cflags.SH to add in -ansi.
 case "$gccversion" in
  ") xxx="inline __inline__ __inline _inline";;
  *)  xxx="__inline__ inline __inline _inline";;
 esac
 for inline in $xxx; do
  set try -DINLINE=$inline a.c
  if eval $compile && $run ./try; then
   # Now make sure there is no external linkage of static
   # functions
   set try -DINLINE=$inline -DUSE_B a.c b.c
   if eval $compile && $run ./try; then
    $echo "Your compiler supports static $inline, " >&4
    $echo "but it also creates an external definition," >&4
    $echo "so I won't use it." >&4
    val=$undef
   else
    $echo "Your compiler supports static $inline." >&4
    val=$define
    perl_static_inline="static $inline";
    break;
   fi
  else
   $echo
 "Your compiler does NOT support static $inline." >&4
   val="$undef"
  fi
 done
 ;;
*inline*) # Some variant of inline exists.
 echo "Keeping your $hint value of $perl_static_inline."
 val=$define
 ;;
static)  # No inline capabilities
 echo "Keeping your $hint value of $perl_static_inline."
 val=$undef
 ;;
*)  # Unrecognized previous value -- blindly trust the supplied
 # value and hope it makes sense.  Use old value for
 # d_static_inline, if there is one.
 echo "Keeping your $hint value of $perl_static_inline."
 case "$d_static_inline" in
  ") val=$define ;;
  *)  val=$d_static_inline ;;
 esac
 ;;
esac
```

```
# Fallback to plain 'static' if nothing worked.
case "$perl_static_inline" in
")
 perl_static_inline="static"
 val=$undef
 ;;
esac
set d_static_inline
eval $setvar
$rm -f a.[co] b.[co]
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_static_inline.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_syslog.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_syslog.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:46:56  ram
?RCS: patch61: replaced .o with $_o all over the place
?RCS:
?RCS: Revision 3.0  1993/08/18  12:07:43  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_syslog: test Csym Setvar Findhdr
?MAKE: -pick add $@ %<
?S:d_syslog:
?S: This variable conditionally defines the HAS_SYSLOG symbol, which
?S: indicates to the C program that syslog() exists on this system.
?S:.
?C:HAS_SYSLOG
 (LIBSYSLOG):
?C: This symbol, if defined, indicates that the program can rely on the
?C: system providing syslog().  Otherwise, the syslog code provided by
?C: the package should be used.
?C:.
?H:#$d_syslog HAS_SYSLOG /**/
?H:.
```

```
?LINT:set d_syslog
: see if syslog is available
echo " "
if $test `./findhdr syslog.h` && \
 (set syslog val -f d_syslog; eval $csym; $val); then
 echo "syslog() found." >&4
 val="$define"
else
 echo "syslog() not found in your C library." >&4
 val="$undef"
fi
set d_syslog
eval $setvar
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_syslog.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: i_malloc.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:21  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:i_malloc: Inhdr
?MAKE: -pick add $@ %<
?S:i_malloc:
?S: This variable conditionally defines the I_MALLOC symbol, and indicates
?S: whether a C program should include <malloc.h>.
?S:.
?C:I_MALLOC:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <malloc.h>.
?C:.
?H:#$i_malloc I_MALLOC  /**/
?H:.
?LINT:set i_malloc
: see if this is a malloc.h system
set
```

```
 malloc.h i_malloc
eval $inhdr
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_malloc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sizetype.U,v 3.0.1.1 1994/08/29 16:32:10 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: sizetype.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:32:10  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:sizetype: Myread Typedef
?MAKE: -pick add $@ %<
?S:sizetype:
?S: This variable defines sizetype to be something like size_t,
?S: unsigned long, or whatever type is used to declare length
?S: parameters for string functions.
?S:.
?C:Size_t:
?C: This symbol holds the type used
 to declare length parameters
?C: for string functions.  It is usually size_t, but may be
?C: unsigned long, int, etc.  It may be necessary to include
?C: <sys/types.h> to get any typedef'ed information.
?C:.
?H:#define Size_t $sizetype  /* length parameter for string functions */
?H:.
?LINT: set sizetype
: see what type is used for size_t
rp="What is the type used for the length parameter for string functions?"
set size_t sizetype 'unsigned int' stdio.h sys/types.h
eval $typedef_ask
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/U/typedefs/sizetype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_chsize.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_chsize.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_chsize: Inlibc
?MAKE: -pick add $@ %<
?S:d_chsize:
?S: This variable conditionally defines the CHSIZE symbol, which
?S: indicates to the C program that the chsize() routine is available
?S: to truncate files.  You might need a -lx to get this routine.
?S:.
?C:HAS_CHSIZE (CHSIZE):
?C: This symbol, if defined, indicates that the chsize
 routine is available
?C: to truncate files.  You might need a -lx to get this routine.
?C:.
?H:#$d_chsize HAS_CHSIZE  /**/
?H:.
?LINT:set d_chsize
: see if chsize exists
set chsize d_chsize
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_chsize.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
```

```
?MAKE:d_strtold_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtold_l:
?S: This variable conditionally defines the HAS_STRTOLD_L symbol, which
?S: indicates to the C program that the strtold_l() routine is available.
?S:.
?C:HAS_STRTOLD_L:
?C: This symbol, if defined, indicates that the strtold_l routine is
?C: available to convert strings to long doubles.
?C:.
?H:#$d_strtold_l HAS_STRTOLD_L  /**/
?H:.
?LINT:set d_strtold_l
: see if strtold_l exists
set strtold_l d_strtold_l
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_strtold_l.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getgrps.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getgrps.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getgrps: Inlibc
?MAKE: -pick add $@ %<
?S:d_getgrps:
?S: This variable conditionally defines the HAS_GETGROUPS symbol, which
?S: indicates to the C program that the getgroups() routine is available
?S: to get the list of process groups.
?S:.
?C:HAS_GETGROUPS (GETGROUPS):
?C: This symbol, if defined, indicates that the getgroups()
 routine is
?C: available to get the list of process groups.  If unavailable, multiple
?C: groups are probably not supported.
```

```
?C:.
?H:#$d_getgrps HAS_GETGROUPS  /**/
?H:.
?LINT:set d_getgrps
: see if getgroups exists
set getgroups d_getgrps
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getgrps.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_fcntl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_fcntl.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_fcntl: Inlibc
?MAKE: -pick add $@ %<
?S:d_fcntl:
?S: This variable conditionally defines the HAS_FCNTL symbol, and indicates
?S: whether the fcntl() function exists
?S:.
?C:HAS_FCNTL:
?C: This symbol, if defined, indicates to the C program that
?C: the fcntl() function exists.
?C:.
?H:#$d_fcntl HAS_FCNTL  /**/
?H:.
?LINT:set d_fcntl
:
 see if this is an fcntl system
set fcntl d_fcntl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_fcntl.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:sysroot: Head
?MAKE: -pick add $@ %<
?S:sysroot:
?S: This variable is empty unless supplied by the Configure user.
?S: It can contain a path to an alternative root directory, under which
?S: headers and libraries for the compilation target can be found. This
?S: is generally used when cross-compiling using a gcc-like compiler.
?S:.
?LINT:extern cc
?LINT:extern cppflags
?LINT:change cppflags
?LINT:extern ccflags
?LINT:change ccflags
?LINT:extern ldflags
?LINT:change ldflags
?LINT:extern cccdlflags
?X: _sysroot is later used in ccflags, but we do not want it in config.sh
?T:var xxx path _sysroot
: Set 'sysroot' to change the logical root directory to your headers and libraries see man gcc
: This is primarily meant for cross-compile environments, and
 may fail to be useful in other cases
if test "X$sysroot" = X; then
   sysroot=""
else
   case "$cc" in
 *gcc*|*g++*)
     echo "Using $sysroot to find your headers and libraries, adding to ccflags"
     # _sysroot is used in places where we need --sysroot=foo
     # but using the rest of the flags could cause issues.
     _sysroot="--sysroot=$sysroot";
     case "$ccflags" in
  *sysroot*) ;;
  'undef'|*)
  ccflags="$ccflags $_sysroot"
     esac
     case "$ldflags" in
  *sysroot*) ;;
  'undef'|*)
  ldflags="$ldflags $_sysroot"
     esac
     case "$cppflags" in
```

```
  *sysroot*) ;;
  'undef'|*)
  cppflags="$cppflags $_sysroot"
    esac
    # lddlflags updated below in lddlflags section;
    # same with cccdlflags
    ;;
  esac

  # Adjust some defaults to also use $sysroot
  for var in xlibpth loclibpth locincpth glibpth; do
 eval xxx=\$$var
 eval $var=''
 for path in $xxx; do
    eval $var=\"\$$var $sysroot$path\"
 done
  done

fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/Sysroot.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_llrint: Inlibc
?MAKE: -pick add $@ %<
?S:d_llrint:
?S: This variable conditionally defines the HAS_LLRINT symbol, which
?S: indicates to the C program that the llrint() routine is available
?S: to return the long long value closest to a double (according
?S: to the current rounding mode).
?S:.
?C:HAS_LLRINT:
?C: This symbol, if defined, indicates that the llrint routine is
?C: available to return the long long value closest to a double
?C: (according to the current rounding mode).
?C:.
?H:#$d_llrint HAS_LLRINT  /**/
?H:.
?LINT:set d_llrint
: see if llrint exists
set llrint d_llrint
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_llrint.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_closedir.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:31:26  ram
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:11:18  ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:21  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_closedir d_void_closedir: Inlibc i_dirent i_sysdir i_sysndir \
 cc ccflags ldflags libs Setvar rm
?MAKE: -pick
 add $@ %<
?S:d_closedir:
?S: This variable conditionally defines HAS_CLOSEDIR if closedir() is
?S: available.
?S:.
?C:HAS_CLOSEDIR:
?C: This symbol, if defined, indicates that the closedir() routine is
?C: available.
?C:.
?H:#$d_closedir HAS_CLOSEDIR  /**/
?H:.
?S:d_void_closedir:
?S: This variable conditionally defines VOID_CLOSEDIR if closedir()
?S: does not return a value.
?S:.
?C:VOID_CLOSEDIR:
?C: This symbol, if defined, indicates that the closedir() routine
?C: does not return a value.
```

```
?C:.
?H:#$d_void_closedir VOID_CLOSEDIR  /**/
?H:.
?F:!closedir
?LINT:set d_closedir d_void_closedir
: see if closedir exists
set closedir d_closedir
eval $inlibc

@if VOID_CLOSEDIR || d_void_closedir
?X: The following contortions are designed so we can call closedir()
?X: and check whether it returns a value.  The contortions are designed
?X: to portably pick up the correct directory header, for those
?X: systems that support various mutually incompatible directory functions.
?X: This
 is from perl5's perl.h
case "$d_closedir" in
"$define")
 echo " "
 echo "Checking whether closedir() returns a status..." >&4
 cat > closedir.c <<EOM
#$i_dirent I_DIRENT  /**/
#$i_sysdir I_SYS_DIR  /**/
#$i_sysndir I_SYS_NDIR  /**/

#if defined(I_DIRENT)
#include <dirent.h>
#if defined(NeXT) && defined(I_SYS_DIR) /* NeXT needs dirent + sys/dir.h */
#include <sys/dir.h>
#endif
#else
#ifdef I_SYS_NDIR
#include <sys/ndir.h>
#else
#ifdef I_SYS_DIR
#ifdef hp9000s500
#include <ndir.h> /* may be wrong in the future */
#else
#include <sys/dir.h>
#endif
#endif
#endif
#endif
int main() { return closedir(opendir(".")); }
EOM
 if $cc $ccflags $ldflags -o closedir closedir.c $libs > /dev/null 2>&1; then
  if ./closedir > /dev/null 2>&1 ; then
   echo "Yes, it does."
```

```
  val="$undef"
 else
  echo "No, it doesn't."
  val="$define"
 fi
else
 echo "(I can't seem to compile the test program--assuming it doesn't)"
 val="$define"
fi
;;
*)
 val="$undef";
 ;;
esac
set d_void_closedir
eval $setvar
$rm
 -f closedir*
@end
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_closedir.U
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```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:d_sresuproto: Hasproto i_unistd
?MAKE: -pick add $@ %<
?S:d_sresuproto:
?S: This variable conditionally defines the HAS_SETRESUID_PROTO symbol,
?S: which indicates to the C program that the system provides
?S: a prototype for the setresuid() function.  Otherwise, it is
?S: up to the program to supply one.
?S:.
?C:HAS_SETRESUID_PROTO:
?C: This symbol, if defined, indicates that the system provides
?C: a prototype for the setresuid() function.  Otherwise, it is up
?C: to the program to supply one.  Good guesses are
?C:  extern
```

```
 int setresuid(uid_t ruid, uid_t euid, uid_t suid);
?C:.
?H:#$d_sresuproto HAS_SETRESUID_PROTO /**/
?H:.
?LINT:set d_sresuproto
: see if prototype for setresuid is available
echo " "
set d_sresuproto setresuid $i_unistd unistd.h
eval $hasproto
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sresuproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_regcmp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_regcmp.U,v $
?RCS: Revision 3.0.1.1  1995/01/30  14:34:45  ram
?RCS: patch49: now looks for POSIX regcomp() routine
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:53  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_regcmp d_re_comp d_regcomp: Csym cat
?MAKE: -pick add $@ %<
?S:d_regcomp:
?S: This variable conditionally defines the HAS_REGCOMP symbol, which
?S: indicates to the C program that the regcomp() routine is available
?S: for regular
 pattern matching (usually on POSIX.2 conforming systems).
?S:.
?S:d_regcmp:
?S: This variable conditionally defines the HAS_REGCMP symbol, which
?S: indicates to the C program that the regcmp() routine is available
?S: for regular pattern matching (usually on System V).
?S:.
?S:d_re_comp:
?S: This variable conditionally defines the HAS_RECOMP symbol, which
?S: indicates to the C program that the re_comp() routine is available
```

```
?S: for regular pattern matching (usually on BSD). If so, it is likely that
?S: re_exec() exists.
?S:.
?C:HAS_REGCOMP (REGCOMP):
?C: This symbol, if defined, indicates that the regcomp() routine is
?C: available to do some regular pattern matching (usually on POSIX.2
?C: conforming systems).
?C:.
?C:HAS_REGCMP (REGCMP):
?C: This symbol, if defined, indicates that the regcmp() routine is
?C: available to do some regular pattern matching (usually on System V).
?C:.
?C:HAS_RECOMP (RECOMP):
?C: This symbol, if defined, indicates that the re_comp() routine is
?C: available
 to do some regular pattern matching (usually on BSD). If so,
?C: it is likely that re_exec() be available.
?C:.
?H:#$d_regcomp HAS_REGCOMP  /* POSIX.2 */
?H:#$d_regcmp HAS_REGCMP  /* sysV */
?H:#$d_re_comp HAS_RECOMP  /* BSD */
?H:.
?T:val
: see if regcomp, regcmp, or re_comp exist, for regular pattern matching
echo " "
if set regcomp val -f d_regcomp; eval $csym; $val; then
 echo 'regcomp() found.' >&4
 d_regcomp="$define"
 d_regcmp="$undef"
 d_re_comp="$undef"
elif set regcmp val -f d_regcmp; eval $csym; $val; then
 echo 'regcmp() found.' >&4
 d_regcmp="$define"
 d_regcomp="$undef"
 d_re_comp="$undef"
elif set re_comp val -f d_re_comp; eval $csym; $val; then
 echo 're_comp() found, assuming re_exec() also exists.' >&4
 d_re_comp="$define"
 d_regcomp="$undef"
 d_regcmp="$undef"
else
 $cat >&4 <<EOM
No regcomp(), regcmp() nor re_comp() found !! No regular pattern matching.
EOM
 d_regcmp="$undef"
 d_re_comp="$undef"
 d_regcomp="$undef"
fi
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_regcmp.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Typedef.U,v $
?RCS: Revision 3.0.1.3  1995/07/25  13:42:07  ram
?RCS: patch56: added backslash escapes within evals to prevent space problems
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:01:16  ram
?RCS: patch36: don't clobber visible 'val' variable, use 'varval' instead
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:05:14  ram
?RCS: patch32: created
?RCS:
?X:
?X: This unit checks for the definition of a given typedef.
?X:
?X: To use it, say:
?X: set typedef val_t default [includes]
?X: eval $typedef
?X:
?MAKE:Typedef:
 cppstdin cppminus cppflags rm contains Oldconfig
?MAKE: -pick add $@ %<
?F:!temp.c
?LINT:define typedef
?V:typedef
?S:typedef:
?S: This shell variable is used internally by Configure to check
?S: wether a given typedef is defined or not. A typical use is:
?S:  set typedef val_t default [includes]
?S:  eval $typedef
?S: That will return val_t set to default if the typedef was not found,
?S: to typedef otherwise. If no includes are specified, look in sys/types.h.
?S:.
?T:type var def inclist varval inc
```

```
: define an is-a-typedef? function
typedef='type=$1; var=$2; def=$3; shift; shift; shift; inclist=$@;
case "$inclist" in
"") inclist="sys/types.h";;
esac;
eval "varval=\$$var";
case "$varval" in
"")
 $rm -f temp.c;
 for inc in $inclist; do
  echo "#include <$inc>" >>temp.c;
 done;
 $cppstdin $cppflags $cppminus < temp.c >temp.E 2>/dev/null;
 if $contains $type temp.E >/dev/null 2>&1; then
  eval "$var=\$type";
 else
  eval "$var=\$def";
 fi;
 $rm -f temp.?;;
*) eval
 "$var=\$varval";;
esac'
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Typedef.U
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```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:ivdformat uvuformat uvoformat uvxformat uvXUformat \
 nvEUformat nvFUformat nvGUformat \
 nveformat nvfformat nvgformat: \
 ivsize longsize intsize shortsize \
 sPRId64 sPRIu64 sPRIo64 sPRIx64 sPRIXU64 \
 uselongdouble d_longdbl usequadmath d_PRIgldbl \
 sPRIEUldbl sPRIFUldbl sPRIGUldbl sPRIeldbl sPRIfldbl sPRIgldbl \
 test echo
?MAKE: -pick add $@ %<
?S:ivdformat:
?S: This variable contains the format string used for printing
?S: a Perl IV as a signed decimal integer.
?S:.
```

?S:uvuformat:
?S: This variable contains the format string used for printing
?S: a Perl UV as an unsigned decimal integer.
?S:.
?S:uvoformat:
?S: This variable contains the format string used for printing
?S: a Perl UV as an unsigned
octal integer.
?S:.
?S:uvxformat:
?S: This variable contains the format string used for printing
?S: a Perl UV as an unsigned hexadecimal integer in lowercase abcdef.
?S:.
?S:uvXUformat:
?S: This variable contains the format string used for printing
?S: a Perl UV as an unsigned hexadecimal integer in uppercase ABCDEF.
?S:.
?S:nveformat:
?S: This variable contains the format string used for printing
?S: a Perl NV using %e-ish floating point format.
?S:.
?S:nvfformat:
?S: This variable contains the format string used for printing
?S: a Perl NV using %f-ish floating point format.
?S:.
?S:nvgformat:
?S: This variable contains the format string used for printing
?S: a Perl NV using %g-ish floating point format.
?S:.
?S:nvEUformat:
?S: This variable contains the format string used for printing
?S: a Perl NV using %E-ish floating point format.
?S:.
?S:nvFUformat:
?S: This variable contains the format string used for printing
?S: a Perl NV using %F-ish floating point format.
?S:.
?S:nvGUformat:
?S: This
variable contains the format string used for printing
?S: a Perl NV using %G-ish floating point format.
?S:.
?C:IVdf:
?C: This symbol defines the format string used for printing a Perl IV
?C: as a signed decimal integer.
?C:.
?C:UVuf:
?C: This symbol defines the format string used for printing a Perl UV

```
?C: as an unsigned decimal integer.
?C:.
?C:UVof:
?C: This symbol defines the format string used for printing a Perl UV
?C: as an unsigned octal integer.
?C:.
?C:UVxf:
?C: This symbol defines the format string used for printing a Perl UV
?C: as an unsigned hexadecimal integer in lowercase abcdef.
?C:.
?C:UVXf:
?C: This symbol defines the format string used for printing a Perl UV
?C: as an unsigned hexadecimal integer in uppercase ABCDEF.
?C:.
?C:NVef:
?C: This symbol defines the format string used for printing a Perl NV
?C: using %e-ish floating point format.
?C:.
?C:NVff:
?C: This symbol defines the format string used for printing a Perl NV
?C: using %f-ish floating point
 format.
?C:.
?C:NVgf:
?C: This symbol defines the format string used for printing a Perl NV
?C: using %g-ish floating point format.
?C:.
?C:NVEf:
?C: This symbol defines the format string used for printing a Perl NV
?C: using %E-ish floating point format.
?C:.
?C:NVFf:
?C: This symbol defines the format string used for printing a Perl NV
?C: using %F-ish floating point format.
?C:.
?C:NVGf:
?C: This symbol defines the format string used for printing a Perl NV
?C: using %G-ish floating point format.
?C:.
?H:#define IVdf  $ivdformat  /**/
?H:#define UVuf  $uvuformat  /**/
?H:#define UVof  $uvoformat  /**/
?H:#define UVxf  $uvxformat  /**/
?H:#define UVXf  $uvXUformat  /**/
?H:#define NVef  $nveformat  /**/
?H:#define NVff  $nvfformat  /**/
?H:#define NVgf  $nvgformat  /**/
?H:#define NVEf  $nvEUformat  /**/
```

```
?H:#define NVFf  $nvFUformat  /**/
?H:#define NVGf  $nvGUformat  /**/
?H:.
: Check format strings for internal types
echo " "
$echo "Checking the format strings to be used for Perl's
 internal types..." >&4

if $test X"$ivsize" = X8; then
 ivdformat="$sPRId64"
 uvuformat="$sPRIu64"
 uvoformat="$sPRIo64"
 uvxformat="$sPRIx64"
 uvXUformat="$sPRIXU64"
else
 if $test X"$ivsize" = X"$longsize"; then
  ivdformat="'ld'"
  uvuformat="'lu'"
  uvoformat="'lo'"
  uvxformat="'lx'"
  uvXUformat="'lX'"
 else
  if $test X"$ivsize" = X"$intsize"; then
   ivdformat="'d'"
   uvuformat="'u'"
   uvoformat="'o'"
   uvxformat="'x'"
   uvXUformat="'X'"
  else
   : far out
   if $test X"$ivsize" = X"$shortsize"; then
    ivdformat="'hd'"
    uvuformat="'hu'"
    uvoformat="'ho'"
    uvxformat="'hx'"
    uvXUformat="'hX'"
   fi
  fi
 fi
fi

if $test X"$usequadmath" = X"$define"; then
   nveformat="'Qe'"
   nvfformat="'Qf'"
   nvgformat="'Qg'"
   nvEUformat="'QE'"
   nvFUformat="'QF'"
   nvGUformat="'QG'"
```

```
else
   if $test X"$uselongdouble" = X"$define" -a X"$d_longdbl" = X"$define" -a X"$d_PRIgldbl" = X"$define"; then
 nveformat="$sPRIeldbl"
 nvfformat="$sPRIfldbl"
 nvgformat="$sPRIgldbl"
 nvEUformat="$sPRIEUldbl"
 nvFUformat="$sPRIFUldbl"
 nvGUformat="$sPRIGUldbl"
    else
 nveformat="'e'"
 nvfformat="'f'"
 nvgformat="'g'"
 nvEUformat="'E'"
 nvFUformat="'F'"
 nvGUformat="'G'"
   fi
fi

case "$ivdformat" in
") echo "$0: Fatal: failed to find format strings, cannot continue." >&4
   exit 1
   ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/perlxvf.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_round: Inlibc
?MAKE: -pick add $@ %<
?S:d_round:
?S: This variable conditionally defines the HAS_ROUND symbol, which
?S: indicates to the C program that the round() routine is available.
?S:.
?C:HAS_ROUND:
?C: This symbol, if defined, indicates that the round routine is
?C: available to round to nearest integer, away from zero.
?C:.
?H:#$d_round HAS_ROUND  /**/
?H:.
?LINT:set d_round
: see if round exists
set round d_round
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_round.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_dlerror.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_dlerror.U,v $
?RCS: Revision 3.0.1.2  1995/07/25  13:52:49  ram
?RCS: patch56: force compile-link test since symbol might lie in crt0.o (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:11:23  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_dlerror: Inlibc runnm
?MAKE: -pick add $@ %<
?S:d_dlerror:
?S: This variable conditionally defines the HAS_DLERROR symbol, which
?S: indicates
 to the C program that the dlerror() routine is available.
?S:.
?C:HAS_DLERROR :
?C: This symbol, if defined, indicates that the dlerror routine is
?C: available to return a string describing the last error that
?C: occurred from a call to dlopen(), dlclose() or dlsym().
?C:.
?H:#$d_dlerror HAS_DLERROR /**/
?H:.
?T: xxx_runnm
?LINT:set d_dlerror
?X: We don't permanently change runnm, but we do temporarily.
?LINT: change runnm
: see if dlerror exists
?X: On NetBSD and FreeBSD, dlerror might be available, but it is in
?X: /usr/lib/crt0.o, not in any of the libraries.  Therefore, do not
?X: use the nm extraction, but use a real compile and link test instead.
xxx_runnm="$runnm"
```

```
runnm=false
set dlerror d_dlerror
eval $inlibc
runnm="$xxx_runnm"
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_dlerror.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_getpgrp2.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_getpgrp2.U,v $
?RCS: Revision 3.0  1993/08/18  12:06:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:d_getpgrp2: Inlibc
?MAKE: -pick add $@ %<
?S:d_getpgrp2:
?S: This variable conditionally defines the HAS_GETPGRP2 symbol, which
?S: indicates to the C program that the getpgrp2() (as in DG/UX) routine
?S: is available to get the current process group.
?S:.
?C:HAS_GETPGRP2 (GETPGRP2):
?C: This symbol, if defined, indicates that the
 getpgrp2() (as in DG/UX)
?C: routine is available to get the current process group.
?C:.
?H:#$d_getpgrp2 HAS_GETPGRP2  /**/
?H:.
?LINT:set d_getpgrp2
: see if getpgrp2 exists
set getpgrp2 d_getpgrp2
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getpgrp2.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_gconvert.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:33:38  ram
?RCS: patch61: integrated new unit from perl5
?RCS:
?RCS: Revision 3.0.1.2  1995/07/25  13:55:59  ram
?RCS: patch56: improved comments about the Gconvert macro (ADO)
?RCS: patch56: force compile-link test since it may exist but be unusable (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:12:51  ram
?RCS: patch36: created by ADO
?RCS:
?MAKE:d_Gconvert:
 cat cc ccflags ldflags libs rm_try _o
?MAKE: -pick add $@ %<
?S:d_Gconvert:
?S: This variable holds what Gconvert is defined as to convert
?S: floating point numbers into strings. It could be 'gconvert'
?S: or a more complex macro emulating gconvert with gcvt() or sprintf.
?S:.
?C:Gconvert:
?C: This preprocessor macro is defined to convert a floating point
?C: number to a string without a trailing decimal point.  This
?C: emulates the behavior of sprintf("%g"), but is sometimes much more
?C: efficient.  If gconvert() is not available, but gcvt() drops the
?C: trailing decimal point, then gcvt() is used.  If all else fails,
?C: a macro using sprintf("%g") is used. Arguments for the Gconvert
?C: macro are: value, number of digits, whether trailing zeros should
?C: be retained, and the output buffer.
?C: Possible values are:
?C:  d_Gconvert='gconvert((x),(n),(t),(b))'
?C:  d_Gconvert='gcvt((x),(n),(b))'
?C:  d_Gconvert='sprintf((b),"%.*g",(n),(x))'
?C: The last two assume trailing zeros should
 not be kept.
?C:.
?H:#define Gconvert(x,n,t,b) $d_Gconvert
```

```
?H:.
?T: xxx_list xxx_convert
?F:!try
?X:
: Check how to convert floats to strings.
echo " "
echo "Checking for an efficient way to convert floats to strings."
?X: We want to be sure to drop trailing decimal points (perl5
?X: needs this).
$cat >try.c <<'EOP'
#ifdef TRY_gconvert
#define Gconvert(x,n,t,b) gconvert((x),(n),(t),(b))
char *myname = "gconvert";
#endif
#ifdef TRY_gcvt
#define Gconvert(x,n,t,b) gcvt((x),(n),(b))
char *myname = "gcvt";
#endif
#ifdef TRY_sprintf
#define Gconvert(x,n,t,b) sprintf((b),"%.*g",(n),(x))
char *myname = "sprintf";
#endif

#include <stdio.h>

int
checkit(expect, got)
char *expect;
char *got;
{
   if (strcmp(expect, got)) {
  printf("%s oddity:  Expected %s, got %s\n",
   myname, expect, got);
  exit(1);
 }
}

int
int main()
{
 char buf[64];
 buf[63] = '\0';

 /* This must be 1st test on (which?) platform */
 /* Alan Burlison <AlanBurlsin@unn.unisys.com> */
 Gconvert(0.1, 8, 0, buf);
 checkit("0.1",
```

```
 buf);

 Gconvert(1.0, 8, 0, buf);
 checkit("1", buf);

 Gconvert(0.0, 8, 0, buf);
 checkit("0", buf);

 Gconvert(-1.0, 8, 0, buf);
 checkit("-1", buf);

 /* Some Linux gcvt's give 1.e+5 here. */
 Gconvert(100000.0, 8, 0, buf);
 checkit("100000", buf);

 /* Some Linux gcvt's give -1.e+5 here. */
 Gconvert(-100000.0, 8, 0, buf);
 checkit("-100000", buf);

 exit(0);
}
EOP
?X: List of order in which to search for functions.
?X: Usual order of efficiency is gconvert gcvt sprintf
?X: Respect a previous or hinted value.
case "$d_Gconvert" in
gconvert*) xxx_list='gconvert gcvt sprintf' ;;
gcvt*) xxx_list='gcvt gconvert sprintf' ;;
sprintf*) xxx_list='sprintf gconvert gcvt' ;;
*) xxx_list='gconvert gcvt sprintf' ;;
esac

for xxx_convert in $xxx_list; do
 echo "Trying $xxx_convert"
 $rm_try
 if $cc $ccflags -DTRY_$xxx_convert $ldflags -o try \
  try.c $libs > /dev/null 2>&1 ; then
  echo "$xxx_convert" found. >&4
  if ./try; then
   echo "I'll use $xxx_convert to convert floats
 into a string." >&4
   break;
  else
   echo "...But $xxx_convert didn't work as I expected."
  fi
 else
  echo "$xxx_convert NOT found." >&4
 fi
```

```
done

case "$xxx_convert" in
gconvert) d_Gconvert='gconvert((x),(n),(t),(b))' ;;
gcvt) d_Gconvert='gcvt((x),(n),(b))' ;;
*) d_Gconvert='sprintf((b),"%.*g",(n),(x))' ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_gconvert.U
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```
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_statfs_s: \
 Hasstruct i_sysparam i_sysmount i_systypes \
 i_sysvfs i_sysstatfs Setvar
?MAKE: -pick add $@ %<
?S:d_statfs_s:
?S: This variable conditionally defines the HAS_STRUCT_STATFS symbol,
?S: which indicates that the struct statfs is supported.
?S:.
?C:HAS_STRUCT_STATFS:
?C: This symbol, if defined, indicates that the struct statfs
?C: to do statfs() is supported.
?C:.
?H:#$d_statfs_s HAS_STRUCT_STATFS /**/
?H:.
?LINT:set d_statfs_s
: Check for statfs_s
echo " "
echo "Checking to see if your system supports struct statfs..." >&4
set d_statfs_s statfs $i_systypes sys/types.h $i_sysparam sys/param.h $i_sysmount sys/mount.h $i_sysvfs sys/vfs.h
$i_sysstatfs sys/statfs.h
eval $hasstruct
case "$d_statfs_s"
 in
"$define")      echo "Yes, it does."   ;;
*)              echo "No, it doesn't." ;;
esac
```

Found in path(s):

* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_statfs_s.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_portable.U,v $
?RCS: Revision 3.0.1.2  1995/01/11  15:28:52  ram
?RCS: patch45: executable path stripping moved to the end in Config_sh.U
?RCS:
?RCS: Revision 3.0.1.1  1993/12/15  08:21:17  ram
?RCS: patch15: did not strip variables properly when needed
?RCS: patch15: now also strips down variables from trylist
?RCS:
?RCS: Revision 3.0  1993/08/18  12:06:48  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The Loc unit is wanted to get the definition of all the locating variables.
?X:
?MAKE:d_portable:
 cat Loc Myread Oldconfig
?MAKE: -pick add $@ %<
?S:d_portable:
?S: This variable conditionally defines the PORTABLE symbol, which
?S: indicates to the C program that it should not assume that it is
?S: running on the machine it was compiled on.
?S:.
?C:PORTABLE:
?C: This symbol, if defined, indicates to the C program that it should
?C: not assume that it is running on the machine it was compiled on.
?C: The program should be prepared to look up the host name, translate
?C: generic filenames, use PATH, etc.
?C:.
?H:#$d_portable PORTABLE /**/
?H:.
?D:d_portable="
: decide how portable to be
case "$d_portable" in
"$define") dflt=y;;
```

```
*) dflt=n;;
esac
$cat <<'EOH'

I can set things up so that your shell scripts and binaries are more portable,
at what may be a noticable cost in performance.  In particular, if you
ask to be portable, the following happens:

    1) Shell scripts will rely on the PATH variable rather than using
 the paths derived above.
    2) ~username
 interpretations will be done at run time rather than
 by Configure.
@if PHOSTNAME
    3) The system name will be determined at run time, if at all possible.
@end

EOH
rp="Do you expect to run these scripts and binaries on multiple machines?"
. ./myread
case "$ans" in
 y*) d_portable="$define"
?X:
?X: Paths will be stripped down (/usr/bin/vi -> vi) in Config_sh.U if needed.
?X:
 ;;
 *)  d_portable="$undef" ;;
esac
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_portable.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_closedir.U,v 3.0.1.3 1997/02/28 15:31:26 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_closedir.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:31:26  ram
```

```
?RCS: patch61: added ?F: metalint hint
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:11:18  ram
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:21  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_closedir d_void_closedir: Inlibc i_dirent i_sysdir i_sysndir
 \
 i_systypes Compile Setvar rm_try run
?MAKE: -pick add $@ %<
?S:d_closedir:
?S: This variable conditionally defines HAS_CLOSEDIR if closedir() is
?S: available.
?S:.
?C:HAS_CLOSEDIR:
?C: This symbol, if defined, indicates that the closedir() routine is
?C: available.
?C:.
?H:#$d_closedir HAS_CLOSEDIR  /**/
?H:.
?S:d_void_closedir:
?S: This variable conditionally defines VOID_CLOSEDIR if closedir()
?S: does not return a value.
?S:.
?C:VOID_CLOSEDIR:
?C: This symbol, if defined, indicates that the closedir() routine
?C: does not return a value.
?C:.
?H:#$d_void_closedir VOID_CLOSEDIR  /**/
?H:.
?F:!try
?LINT:set d_closedir d_void_closedir
: see if closedir exists
set closedir d_closedir
eval $inlibc

@if VOID_CLOSEDIR || d_void_closedir
?X: The following contortions are designed so we can call closedir()
?X: and check whether it returns a value.  The contortions are designed
?X: to portably pick up the correct directory header, for those
?X: systems that support various mutually incompatible
 directory functions.
?X: This is from perl5's perl.h
case "$d_closedir" in
"$define")
 echo " "
```

```
 echo "Checking whether closedir() returns a status..." >&4
 cat > try.c <<EOM
#$i_dirent I_DIRENT  /**/
#$i_sysdir I_SYS_DIR  /**/
#$i_sysndir I_SYS_NDIR  /**/
#$i_systypes I_SYS_TYPES /**/

#if defined(I_SYS_TYPES)
#include <sys/types.h>
#endif
#if defined(I_DIRENT)
#include <dirent.h>
#else
#ifdef I_SYS_NDIR
#include <sys/ndir.h>
#else
#ifdef I_SYS_DIR
#include <sys/dir.h>
#endif
#endif
#endif
int main() { return closedir(opendir(".")); }
EOM
 set try
 if eval $compile_ok; then
  if $run ./try > /dev/null 2>&1 ; then
   echo "Yes, it does."
   val="$undef"
  else
   echo "No, it doesn't."
   val="$define"
  fi
 else
  echo "(I can't seem to compile the test program--assuming it doesn't)"
  val="$define"
 fi
 ;;
*)
 val="$undef";
 ;;
esac
set d_void_closedir
eval $setvar
$rm_try
@end
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/U/compline/d_closedir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_lchown.U,v 3.0.1.1 1994/08/29 16:07:14 ram Exp $
?RCS:
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?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_lchown.U,v $
?RCS: Revision 3.0.1.1  1994/08/29  16:07:14  ram
?RCS: patch32: created by ADO
?RCS:
?MAKE:d_lchown: Compile Setvar cat echo i_unistd rm_try
?MAKE: -pick add $@ %<
?S:d_lchown:
?S: This variable conditionally defines the HAS_LCHOWN symbol, which
?S: indicates to the C program that the lchown() routine is available
?S: to operate on a symbolic link (instead of following
 the link).
?S:.
?C:HAS_LCHOWN :
?C: This symbol, if defined, indicates that the lchown routine is
?C: available to operate on a symbolic link (instead of following the
?C: link).
?C:.
?H:#$d_lchown HAS_LCHOWN  /**/
?H:.
?F:!try
?LINT:set d_lchown
: see if lchown exists
echo " "
?X: Some functions (such as lchown()) are present in libc, but are
?X: unimplemented.  That is, they always fail and set errno=ENOSYS.
?X:
?X: Thomas Bushnell provided the following sample code and the explanation
?X: that follows.
?X:
?X: The choice of <assert.h> is essentially arbitrary.  The GNU libc
?X: macros are found in <gnu/stubs.h>.  You can include that file instead
?X: of <assert.h> (which itself includes <gnu/stubs.h>) if you test for
?X: its existence first.  <assert.h> is assumed to exist on every system,
```

```
?X: which is why it's used here.  Any GNU libc header file will include
?X: the stubs macros.  If either __stub_NAME or __stub___NAME is defined,
?X: then the function doesn't actually exist.
  Tests using <assert.h> work
?X: on every system around.
?X:
?X: The declaration of FOO is there to override builtin prototypes for
?X: ANSI C functions.
?X:
?X:  I really ought to enhance the inlibc test to check for this, but
?X:  I don't have time now.  --A.D.  5/1998
?X:
?X: Unfortunately, this trick fails under clang++-7.  Apparently to
?X: cover both the stub issue and clang's requirements, we need to do
?X: a compile and run test. -- A.D. 8/2019
?X:
$cat > try.c <<EOCP
#include <pwd.h>
#include <stdio.h>
#include <stdlib.h>
#$i_unistd I_UNISTD
#ifdef I_UNISTD
#  include <unistd.h>
#endif
int main(int argc, char *argv[])
{
  if (lchown("./try.c", -1, getgid()) == -1) {
      exit(EXIT_FAILURE);
  }
  exit(EXIT_SUCCESS);
}
EOCP
set try
if eval $compile && ./try; then
   $echo "lchown() found." >&4
   val="$define"
else
   $echo "lchown() NOT found." >&4
   val="$undef"
fi
set d_lchown
eval $setvar
$rm_try
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_lchown.U

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```
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?RCS:
?MAKE:d_fp_classl: Inlibc
?MAKE: -pick add $@ %<
?S:d_fp_classl:
?S: This variable conditionally defines the HAS_FP_CLASSL symbol, which
?S: indicates to the C program that the fp_classl() routine is available.
?S:.
?C:HAS_FP_CLASSL:
?C: This symbol, if defined, indicates that the fp_classl routine is
?C: available to classify long doubles.  Available for example in
?C: Digital UNIX.  See for possible values HAS_FP_CLASS.
?C:.
?H:#$d_fp_classl HAS_FP_CLASSL  /**/
?H:.
?LINT:set d_fp_classl
: see if fp_classl exists
set fp_classl d_fp_classl
eval $inlibc
```

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fp_classl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: ssizetype.U,v 3.0.1.3 1997/02/28 16:24:21 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: ssizetype.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:24:21  ram
?RCS: patch61: integrated perl5 concerns for mis-configured sfio
?RCS:
```

```
?RCS: Revision 3.0.1.2  1994/10/29  16:30:28  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: added 'ldflags' to the test compile line (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:33:06  ram
?RCS: patch32: created
 by ADO
?RCS:
?MAKE:ssizetype: Myread Typedef sizetype cat rm_try Compile run i_stdlib
?MAKE: -pick add $@ %<
?S:ssizetype:
?S: This variable defines ssizetype to be something like ssize_t,
?S: long or int.  It is used by functions that return a count
?S: of bytes or an error condition.  It must be a signed type.
?S: We will pick a type such that sizeof(SSize_t) == sizeof(Size_t).
?S:.
?C:SSize_t:
?C: This symbol holds the type used by functions that return
?C: a count of bytes or an error condition.  It must be a signed type.
?C: It is usually ssize_t, but may be long or int, etc.
?C: It may be necessary to include <sys/types.h> or <unistd.h>
?C: to get any typedef'ed information.
?C: We will pick a type such that sizeof(SSize_t) == sizeof(Size_t).
?C:.
?H:#define SSize_t $ssizetype /* signed count of bytes */
?H:.
?F:!try
: see what type is used for signed size_t
set ssize_t ssizetype int stdio.h sys/types.h
eval $typedef
dflt="$ssizetype"
?X: Now check out whether sizeof(SSize_t)
 == sizeof(Size_t)
$cat > try.c <<EOM
#include <stdio.h>
#$i_stdlib I_STDLIB
#ifdef I_STDLIB
#include <stdlib.h>
#endif
#include <sys/types.h>
#define Size_t $sizetype
#define SSize_t $dflt
int main()
{
 if (sizeof(Size_t) == sizeof(SSize_t))
  printf("$dflt\n");
 else if (sizeof(Size_t) == sizeof(int))
  printf("int\n");
```

```
 else
  printf("long\n");
 exit(0);
}
EOM
echo " "
set try
if eval $compile_ok && $run ./try > /dev/null; then
 ssizetype=`$run ./try`
 echo "I'll be using $ssizetype for functions returning a byte count." >&4
else
 $cat >&4 <<EOM
Help! I can't compile and run the ssize_t test program: please enlighten me!
(This is probably a misconfiguration in your system or libraries, and
you really ought to fix it.  Still, I'll try anyway.)

I need a type that is the same size as $sizetype, but is guaranteed to
be signed.  Common values are ssize_t, int and long.

EOM
 rp="What signed type is the same size as $sizetype?"
 . ./myread
 ssizetype="$ans"
fi
$rm_try
```

Found in path(s):
*
/opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/ssizetype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_unordered: Inlibc
?MAKE: -pick add $@ %<
?S:d_unordered:
?S: This variable conditionally defines the HAS_UNORDERED symbol, which
?S: indicates to the C program that the unordered() routine is available.
?S:.
?C:HAS_UNORDERED:
?C: This symbol, if defined, indicates that the unordered routine is
?C: available to check whether two doubles are unordered
```

?C: (effectively: whether either of them is NaN)
?C:.
?H:#$d_unordered HAS_UNORDERED /**/
?H:.
?LINT:set d_unordered
: see if unordered exists
set unordered d_unordered
eval $inlibc

Found in path(s):
* /opt/cola/permits/2054985096_1718366937.03543/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_unordered.U

1.2863 urfave-cli 1.22.15

1.2863.1 Available under license :

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1.2864 consul-api 1.28.2

1.2864.1 Available under license :

---
layout: api
page_title: License - Operator - HTTP API
description: |-

The /operator/license endpoint allows for retrieving the Consul
Enterprise License.

License - Operator HTTP API

<EnterpriseAlert />

The licensing functionality described here is available only in
[Consul Enterprise](https://www.hashicorp.com/products/consul/) version 1.1.0 and later.

Getting the Consul License

This endpoint gets information about the current license.

Method	Path	Produces
`GET`	`/operator/license`	`application/json`

The table below shows this endpoint's support for
[blocking queries](/consul/api-docs/features/blocking),
[consistency modes](/consul/api-docs/features/consistency),
[agent caching](/consul/api-docs/features/caching), and
[required ACLs](/consul/api-docs/api-structure#authentication).

Blocking Queries	Consistency Modes	Agent Caching	ACL Required
`NO`	`all`	`none`	`none`

The corresponding CLI command is [`consul license get`](/consul/commands/license#get).

Query Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be retrieved.
This will default to the datacenter of the agent serving the HTTP request.

Sample Request

```shell-session
$ curl \
  http://127.0.0.1:8500/v1/operator/license
```

Sample Response

```json
{
```

```
 "Valid": true,
 "License": {
   "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
   "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
   "installation_id": "*",
   "issue_time": "2018-05-21T20:03:35.911567355Z",
   "start_time": "2018-05-21T04:00:00Z",
   "expiration_time": "2019-05-22T03:59:59.999Z",
   "product": "consul",
   "flags": {
     "package": "premium"
   },
   "features": [
     "Automated Backups",
     "Automated Upgrades",

     "Enhanced Read Scalability",
     "Network Segments",
     "Redundancy Zone",
     "Advanced Network Federation"
   ],
   "temporary": false
 },
 "Warnings": []
}
```


Updating the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with the ability to manage the cluster's license via the API.

This endpoint updates the Consul license and returns some of the license contents as well as any warning messages regarding its validity.

Method	Path	Produces
`PUT`	`/operator/license`	`application/json`

The table below shows this endpoint's support for [blocking queries](/consul/api-docs/features/blocking), [consistency modes](/consul/api-docs/features/consistency), [agent caching](/consul/api-docs/features/caching), and [required ACLs](/consul/api-docs/api-structure#authentication).

Blocking Queries	Consistency Modes	Agent Caching	ACL Required

| `NO` | `none` | `none` | `operator:write` |

The corresponding CLI command is [`consul license put`](/consul/commands/license#put).

Query Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be updated.
 This will default to the datacenter of the agent serving the HTTP request.

Sample Payload

The payload is the raw license blob.

Sample Request

```shell-session
$ curl \
   --request PUT \
   --data @consul.license \
   http://127.0.0.1:8500/v1/operator/license
```

Sample Response

```json
{
 "Valid": true,
 "License": {
   "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
   "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
   "installation_id": "*",
   "issue_time": "2018-05-21T20:03:35.911567355Z",
   "start_time": "2018-05-21T04:00:00Z",
   "expiration_time": "2019-05-22T03:59:59.999Z",
   "product":
 "consul",
   "flags": {
     "package": "premium"
   },
   "features": [
     "Automated Backups",
     "Automated Upgrades",
     "Enhanced Read Scalability",
     "Network Segments",
     "Redundancy Zone",
     "Advanced Network Federation"
   ],
   "temporary": false
```

```
 },
 "Warnings": []
}
```

Resetting the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with
the ability to manage the cluster's license via the API.

This endpoint resets the Consul license to the license included in the Enterprise binary. If the included license is not valid, the replace will fail.

Method	Path	Produces
`DELETE`	`/operator/license`	`application/json`

The table below shows this endpoint's support for
[blocking queries](/consul/api-docs/features/blocking),
[consistency modes](/consul/api-docs/features/consistency),
[agent caching](/consul/api-docs/features/caching),
 and
[required ACLs](/consul/api-docs/api-structure#authentication).

Blocking Queries	Consistency Modes	Agent Caching	ACL Required
`NO`	`none`	`none`	`operator:write`

The corresponding CLI command is [`consul license reset`](/consul/commands/license#reset).

Query Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be updated.
 This will default to the datacenter of the agent serving the HTTP request.

Sample Request

```shell-session
$ curl \
   --request DELETE \
   http://127.0.0.1:8500/v1/operator/license
```

Sample Response

```json
{
 "Valid": true,
```

"License": {
  "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
  "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
  "installation_id": "*",
  "issue_time": "2018-05-21T20:03:35.911567355Z",
  "start_time": "2018-05-21T04:00:00Z",
  "expiration_time": "2019-05-22T03:59:59.999Z",
  "product": "consul",
  "flags": {
    "package": "premium"
  },
  "features": [
    "Automated Backups",
    "Automated Upgrades",
    "Enhanced Read Scalability",
    "Network Segments",
    "Redundancy Zone",
    "Advanced Network Federation"
  ],
  "temporary": false
},
"Warnings": []
}
```
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

@import './skin';
@import './layout';
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

.consul-intention-permission-form {
 h2 {
   padding-top: 1.4em;
   margin-top: 0.2em;
   margin-bottom: 0.6em;
 }
 .consul-intention-permission-header-form {
   margin-top: 10px;
 }
 fieldset:nth-child(2) > div,
 .consul-intention-permission-header-form fieldset > div {
   display: grid;
```

```
  grid-template-columns: repeat(auto-fit, minmax(160px, 1fr));
  grid-gap: 12px;
 }
 fieldset:nth-child(2) > div label:last-child {
  grid-column: span 2;
 }
 .ember-basic-dropdown-trigger {
  padding: 5px;
 }
 .checkbox-group {
  flex-direction: column;
 }
}
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

@import './skin';
@import './layout';
.consul-intention-permission-list > ul > li {
 @extend %list-row-200;
}
.consul-intention-permission-list:not(.readonly) > ul > li {
 @extend %with-composite-row-intent;
}
.consul-intention-permission-list strong {
 @extend %pill-500;
}
.consul-intention-permission-list .intent-allow {
 @extend %pill-allow;
}
.consul-intention-permission-list .intent-deny {
 @extend %pill-deny;
}
```

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OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
---
layout: docs
page_title: Enterprise License FAQ
description: >-
Review frequently asked questions (FAQs) about Consul Enterprise licenses to learn more about how licenses work, what happens when they expire, and how to get a trial license.

Frequently Asked Questions (FAQ)

This FAQ is for the license changes introduced in Consul Enterprise version 1.10.0.
Consul Enterprise automatically loads Consul licenses when the server agent starts.

Q: Can I get a quick summary of the Consul changes?

Starting with Consul Enterprise 1.10.0, the license enablement process is different.

HashiCorp Enterprise servers will no longer start without a license. Servers require licenses to be provided from either an environment variable or file.
If the license is missing, invalid, or expired, the server will immediately exit.
This check is part of the server boot-up process.

In previous versions of HashiCorp enterprise products, one server could distribute a license to other servers via the Raft protocol.
This will no longer work since each server must be able to find a valid license during the startup process.

Q: What are the upgrade requirements?

All customers on Consul Enterprise 1.8/1.9 must first upgrade their client and server agents to the latest patch release.
During the upgrade the license file must also be configured on client agents in an environment variable or file path, otherwise the Consul agents will fail to retrieve the license with a valid agent token.
The upgrade process varies if ACLs are enabled or disabled in the cluster.
Refer to the instructions on [upgrading to 1.10.x](/consul/docs/upgrading/instructions/upgrade-to-1-10-x) for details.

Q: Is there a tutorial available for the license configuration steps?

Please visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs).

Q: What resources are available?

The list below is a great starting point for learning more about the license changes introduced in Consul Enterprise 1.10.0+ent.

- [Consul Enterprise Upgrade Documentation](/consul/docs/enterprise/upgrades)

- [Consul License Documentation](/consul/docs/enterprise/license/overview)

- [License configuration values documentation](/consul/docs/enterprise/license/overview#binaries-without-built-in-licenses)

- [Install a HashiCorp Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs)

Q: Do these changes impact all customers/licenses?

The license changes introduced in 1.10.0 only affect Consul Enterprise.
This impacts customers that have an enterprise binary (trial or non-trial licenses) downloaded from https://releases.hashicorp.com.
The license changes do not impact customers with the baked-in licensed binaries. In a later release of Consul Enterprise, baked-in binaries will be deprecated.

Q: What is the product behavior change introduced by the licensing changes?

Starting with Consul Enterprise 1.10.0,
 a valid license is required on-disk (auto-loading) or as an environment variable for Consul Enterprise to successfully boot-up.
The in-storage license feature will not be supported starting with Consul Enterprise 1.10.0+ent. All Consul Enterprise clusters using 1.10.0+ent must ensure that there is a valid license on-disk (auto-loaded) or as an environment variable.

Q: What is the impact on trial licenses due to this change? ((#q-what-is-the-impact-on-evaluation-licenses-due-to-this-change))

Consul Enterprise 1.10.0+ server agents require a valid license to start.
The license can be provided on disk (auto-loaded) or as an environment variable.
There is no longer a 6-hour trial period in which Consul Enterprise server agents
can operate without a license.

Q: Is there a grace period when licenses expire?

YesConsul will continue normal operation and can be restarted after license *expiration* as defined in [`expiration_time`](/consul/api-docs/operator/license#getting-the-consul-license).
As
 license expiration is approached or passed, Consul will issue warnings in the system logs.

Consul will only cease operation after license *termination*, which occurs 10 years
after license expiration and is defined in
[`termination_time`](/consul/api-docs/operator/license#getting-the-consul-license).

~> **Starting with Consul 1.14, and patch releases 1.13.3 and 1.12.6, Consul will support non-terminating licenses**:
  Please contact your support representative for more details on non-terminating licenses.
  An expired license will not allow Consul versions released after the expiration date to run.
  It will not be possible to upgrade to a new version of Consul released after license expiration.

Q: Does this affect client agents?

There are upgrade requirements that affect Consul Enterprise clients.
Please review the [upgrade requirements](#q-what-are-the-upgrade-requirements) documentation.

Q: Does this affect snapshot agents?

Same behavior as Consul clients.
 See answer for [Does this affect client agents?](#q-does-this-affect-client-agents)

Q: What is the behavior if the license is missing?

Consul server agents will detect the absence of the license and immediately exit.

Consul client agents will attempt to retrieve the license from servers if certain conditions are met:

- ACLs are enabled.
- An ACL token is provided to the client agent.
- The client agents configuration contains `retry_join` addresses.
- The retry join addresses are addresses of the Consul servers.

Consul snapshot agents will attempt to retrieve the license from servers if certain conditions are met: ACLs are enabled, a ACL token is provided to the client agent, the client agents configuration contains `retry_join` addresses, the retry join addresses are addresses of the Consul servers.

Q: Where can users get a trial license for Consul Enterprise?

Contact your [HashiCorp Support contact](https://support.hashicorp.com/) for a development license.

~> **Trial
 install will cease operation 24 hours after 30-day license expiration**:
  Trial licenses are not meant to be used in production.
  This is unlike non-trial licenses which provide a 10 year grace period as described in
  the answer for [Q: Is there a grace period when licenses expire?](#q-is-there-a-grace-period-when-licenses-expire).

Q: How can I renew a license?

Contact your organization's [HashiCorp account team](https://support.hashicorp.com/hc/en-us) for information on how to renew your organization's enterprise license.

Q: I'm an existing enterprise customer but don't have my license, how can I get it?

Contact your organization's [HashiCorp account team](https://support.hashicorp.com/hc/en-us) for information on how to renew your organization's enterprise license.

Q: Are the license files locked to a specific cluster?

The license files are not locked to a specific cluster or cluster node. The above changes apply to all nodes in a cluster.

Q: Will this
 impact HCP Consul Dedicated?

This will not impact HCP Consul Dedicated.

Q: Does this need to happen every time a node restarts, or is this a one-time check?

Consul Enterprise binaries starting with 1.10.0+ent, will be subject to EULA check. Release 1.10.0+ent introduces the EULA check for trial licenses (non-trial licenses already go through EULA check during contractual agreement).

The agreement to a EULA happens only once (when the user gets their license), Consul Enterprise **will check for the presence of a valid license every time a node restarts**.

When a customer upgrades existing clusters to a 1.10.0+ent release, they need to have a valid license to successfully

upgrade. This valid license must be auto-loaded.

When a customer deploys new clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be on-disk (auto-loaded).

Q: What are the scenarios that a customer must plan for because of these changes?

New
 Consul cluster deployments using 1.10.0+ent will need to have a valid license on servers to successfully deploy. This valid license must be on-disk (auto-loaded) or as an environment variable.
Please see the [upgrade requirements](/consul/docs/enterprise/license/faq#q-what-are-the-upgrade-requirements).

Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?

VM

1. Run [`consul license get -signed`](/consul/commands/license#get) to extract the license from their running cluster. Store the license in a secure location on disk.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have access to the required license. This could be via the client agent configuration file or an environment variable.
1. Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license
 key.
1. Follow the Consul upgrade [documentation](/consul/docs/upgrading).

Kubernetes

NOTE: If you are not upgrading Consul or your Helm chart version then no action is required.

1. In order to use Consul Enterprise 1.10.0 or greater on Kubernetes you must use version 0.32.0 or greater of the Helm chart.
1. You should already have a Consul Enterprise license set as a Kubernetes secret. If you do not, refer to [how to obtain a copy of your license](/consul/docs/enterprise/license/faq#q-i-m-an-existing-enterprise-customer-but-don-t-have-my-license-how-can-i-get-it).
Once you have the license then create a Kubernetes secret containing the license as described in [Kubernetes - Consul Enterprise](/consul/docs/k8s/deployment-configurations/consul-enterprise).
1. Follow the [Kubernetes Upgrade Docs](/consul/docs/k8s/upgrade) to upgrade. No changes to your `values.yaml` file are needed to enable enterprise autoloading since this support is built in to consul-helm 0.32.0 and greater.

!>
 Warning: If you are upgrading the Helm chart but **not** upgrading the Consul version, you must set `server.enterpriseLicense.enableLicenseAutoload: false`. See [Kubernetes - Consul Enterprise](/consul/docs/k8s/deployment-configurations/consul-enterprise) for more details.

Q: What is the migration path for customers who want to migrate from their existing perpetually-licensed binaries to the license on disk flow?

VM

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's [customer success manager](https://support.hashicorp.com/hc/en-us) (CSM) for information on how to get your organization's enterprise license.
1. Store the license in a secure location on disk.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.
  Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license key.
1. Follow the Consul upgrade [documentation](/consul/docs/upgrading).

Kubernetes

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's [customer success manager](https://support.hashicorp.com/hc/en-us) (CSM) for information on how to get your organization's enterprise license.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.
  Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license key.
1. Proceed with the `helm` [upgrade instructions](/consul/docs/k8s/upgrade)

Q: Will Consul downgrades/rollbacks work?

When downgrading
 to a version of Consul before 1.10.0+ent, customers will need to follow the previous process for applying an enterprise licenses to Consul Enterprise.

Q: Are there potential pitfalls when downgrading or upgrading Consul server instances?

~> Verify that you meet the [upgrade requirements](/consul/docs/enterprise/license/faq#q-what-are-the-upgrade-requirements).

Assume a scenario where there are three Consul server nodes:

- Node A: v1.9.5
- Node B: v1.10.0 [Leader]
- Node C: v1.9.5

The command `consul license put` is issued from Node A. This will result in an error due to how Consul routes calls to the server node, Node B in this example.
Because Node A is a follower when the call `consul license put` is issued, the call will be redirected to Node B (leader).
The `consul license put` operation will fail due to being removed from 1.10.0.
This is a scenario that could occur if a customer downgrades from 1.10.0+ and the Consul leadership has not transferred back over to a node

not running 1.10.0+.
This also has the potential of occurring when upgrading if scheduled license updates or autoscaling groups recoveries are in place.

Q: Any impacts to Consul Kubernetes?

If you are using a Consul Enterprise version prior to 1.10.0 and decide to upgrade the Helm chart to version 0.32.0 or newer, but not the Consul version.
You will need to add the following configuration.

```
server:
 enterpriseLicense:
   enableLicenseAutoload: false
```

```
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

.consul-intention-permission-header-list {
 max-height: 200px;
 overflow: auto;
}
{{!
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 SPDX-License-Identifier: BUSL-1.1
}}

{{#if (gt items.length 0)}}
<ListCollection
 class="consul-intention-permission-header-list"
 @items={{items}}
 @scroll="native"
 @cellHeight={{42}}
as |item|>
 <BlockSlot @name="details">
   <dl>
     <dt>
       <Tooltip>
         Header
       </Tooltip>
     </dt>
     <dd>
       {{item.Name}} {{route-match item}}
     </dd>
   </dl>
 </BlockSlot>
```

```
<BlockSlot @name="actions" as |Actions|>
  <Actions as |Action|>
    <Action data-test-delete-action @onclick={{action ondelete item}} class="dangerous">
      <BlockSlot @name="label">
        Delete
      </BlockSlot>
      <BlockSlot @name="confirmation" as |Confirmation|>
        <Confirmation class="warning">
          <BlockSlot @name="header">
            Confirm delete
          </BlockSlot>
          <BlockSlot @name="body">
            <p>
              Are you sure you want to delete this header?

  </p>
          </BlockSlot>
          <BlockSlot @name="confirm" as |Confirm|>
            <Confirm>Delete</Confirm>
          </BlockSlot>
        </Confirmation>
      </BlockSlot>
    </Action>
  </Actions>
 </BlockSlot>
</ListCollection>
{{/if}}
{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
   "rules": {
     "policies": {
       "consul-intentions-layer7-0": {
         "permissions": [
           {
             "andRules": {
               "rules": [
                 {
                   "urlPath": {
                     "path": {
                       "exact": "/v1/secret"
                     }
                   }
                 },
                 {
                   "andRules": {
                     "rules": [
```

```
          {
            "metadata": {
              "filter": "envoy.filters.http.jwt_authn",
              "path": [
                {
                  "key": "jwt_payload_auth0"
                },
                {
                  "key": "iss"
                }
              ],
              "value": {
                "stringMatch": {
                  "exact": "mytest.auth0-issuer"
                }
              }
            }
          },
          {
            "metadata": {
              "filter": "envoy.filters.http.jwt_authn",
              "path": [
                {
                  "key": "jwt_payload_auth0"
                },
                {
                  "key": "perms"
                },
                {
                  "key": "role"
                }
              ],
              "value": {
                "stringMatch": {
                  "exact": "admin"

  }
              }
            }
          }
        ]
      }
    }
  ]
}
},
{
  "andRules": {
```

```
      "rules": [
        {
          "urlPath": {
            "path": {
              "exact": "/v1/admin"
            }
          }
        },
        {
          "notRule": {
            "urlPath": {
              "path": {
                "exact": "/v1/secret"
              }
            }
          }
        }
      ]
    }
  }
],
"principals": [
  {
    "andIds": {
      "ids": [
        {
          "authenticated": {
            "principalName": {

          "safeRegex": {
                "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
              }
            }
          }
        },
        {
          "andIds": {
            "ids": [
              {
                "metadata": {
                  "filter": "envoy.filters.http.jwt_authn",
                  "path": [
                    {
                      "key": "jwt_payload_okta"
                    },
                    {
                      "key": "iss"
                    }
```

```
                    ],
                    "value": {
                      "stringMatch": {
                        "exact": "mytest.okta-issuer"
                      }
                    }
                  }
                },

                {
                  "metadata": {
                    "filter": "envoy.filters.http.jwt_authn",
                    "path": [
                      {
                        "key": "jwt_payload_okta"
                      },
                      {
                        "key": "roles"
                      }
                    ],
                    "value": {
                      "stringMatch": {
                        "exact": "testing"
                      }
                    }
                  }
                }
              ]
            }
          }
        ]
      }
    }
  }
 }
}
{{!
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 SPDX-License-Identifier: BUSL-1.1
}}

<div
 ...attributes
 class="consul-intention-permission-header-form"
>
```

```
<FormGroup
  @name={{name}}
as |group|>

  {{yield (hash
    submit=(action 'submit' changeset)
    reset=(action 'reset' changeset)

    isDirty=(and changeset.isValid changeset.isDirty)
    changeset=changeset
  )}}

  <fieldset>
    <div>
      <group.Element
        @name="HeaderType"
        @type="select"
      as |el|>
        <el.Label>Header type</el.Label>
        <PowerSelect
          @options={{headerTypes}}
          @selected={{headerType}}
          @onChange={{action 'change' 'HeaderType' changeset}} as |Type|>
            {{get headerLabels Type}}
        </PowerSelect>
      </group.Element>


      <group.Element
        @name="Name"
        @error={{changeset-get changeset 'error.Name'}}
      as |el|>
        <el.Label>Header name</el.Label>
        <el.Text

         @value={{changeset-get changeset 'Name'}}
          oninput={{action 'change' 'Name' changeset}}
        />
        <State @state={{el.state}} @matches="error">
          <el.Error>
            {{changeset-get changeset 'error.Name.validation'}}
          </el.Error>
        </State>
      </group.Element>

{{#if shouldShowValueField}}
      <group.Element
        @name="Value"
```

```
        @error={{changeset-get changeset 'error.Value'}}
      as |el|>
        <el.Label>Header {{lowercase (get headerLabels headerType)}}</el.Label>
        <el.Text
          @value={{changeset-get changeset 'Value'}}
          oninput={{action 'change' 'Value' changeset}}
        />
        <State @state={{el.state}} @matches="error">
          <el.Error>
            {{changeset-get changeset 'error.Value.validation'}}
          </el.Error>
        </State>
      </group.Element>
 {{/if}}

    </div>
  </fieldset>
 </FormGroup>
</div>
{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
   "rules": {
     "policies": {
       "consul-intentions-layer7-0": {
         "permissions": [
           {
             "andRules": {
               "rules": [
                 {
                   "urlPath": {
                     "path": {
                       "prefix": "/v1"
                     }
                   }
                 },
                 {
                   "notRule": {
                     "urlPath": {
                       "path": {
                         "exact": "/v1/secret"
                       }
                     }
                   }
                 }
               ]
             }
```

```
    },
    {
      "andRules": {
        "rules": [
          {
            "andRules": {
              "rules": [
                {

            "urlPath": {
                  "path": {
                    "safeRegex": {
                      "regex": "/v[123]"
                    }
                  }
                }
              },
              {
                "header": {
                  "name": ":method",
                  "stringMatch": {
                    "safeRegex": {
                      "regex": "GET|HEAD|OPTIONS"
                    }
                  }
                }
              }
            ]
            }
          },
          {
            "notRule": {
              "urlPath": {
                "path": {
                  "exact": "/v1/secret"
                }
              }
            }
          },

  {
            "notRule": {
              "andRules": {
                "rules": [
                  {
                    "urlPath": {
                      "path": {
                        "exact": "/v1/admin"
```

```
                    }
                  }
                },
                {
                  "header": {
                    "name": ":method",
                    "stringMatch": {
                      "safeRegex": {
                        "regex": "GET"
                      }
                    }
                  }
                }
              ]
            }
          }
        }
      ]
    }
  },
  {
    "andRules": {
      "rules": [
        {

"andRules": {
                "rules": [
                  {
                    "header": {
                      "name": "x-foo",
                      "presentMatch": true
                    }
                  },
                  {
                    "header": {
                      "name": "x-bar",
                      "stringMatch": {
                        "exact": "xyz"
                      }
                    }
                  },
                  {
                    "header": {
                      "name": "x-dib",
                      "stringMatch": {
                        "prefix": "gaz"
                      }
                    }
```

```
        },
        {
          "header": {
            "name": "x-gir",
            "stringMatch": {

"suffix": "zim"
            }
          }
        },
        {
          "header": {
            "name": "x-zim",
            "stringMatch": {
              "safeRegex": {
                "regex": "gi[rR]"
              }
            }
          }
        },
        {
          "header": {
            "invertMatch": true,
            "name": "z-foo",
            "presentMatch": true
          }
        },
        {
          "header": {
            "invertMatch": true,
            "name": "z-bar",
            "stringMatch": {
              "exact": "xyz"

    }
          }
        },
        {
          "header": {
            "invertMatch": true,
            "name": "z-dib",
            "stringMatch": {
              "prefix": "gaz"
            }
          }
        },
        {
          "header": {
```

```
                "invertMatch": true,
                "name": "z-gir",
                "stringMatch": {
                  "suffix": "zim"
                }
              }
            },
            {
              "header": {
                "invertMatch": true,
                "name": "z-zim",
                "stringMatch": {
                  "safeRegex": {

             "regex": "gi[rR]"
                  }
                }
              }
            }
          ]
        }
      },
      {
        "notRule": {
          "urlPath": {
            "path": {
              "exact": "/v1/secret"
            }
          }
        }
      },
      {
        "notRule": {
          "header": {
            "name": "x-baz",
            "presentMatch": true
          }
        }
      }
    ]
  }
}
],
"principals": [
  {
    "authenticated": {
      "principalName": {
        "safeRegex": {
```

```
                "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
              }
            }
          }
        }
      ]
    }
  }
 }
}
{
 "name": "envoy.filters.network.rbac",
 "typedConfig": {
  "@type": "type.googleapis.com/envoy.extensions.filters.network.rbac.v3.RBAC",
  "rules": {},
  "statPrefix": "connect_authz"
 }
}
{
 "Valid": true,
 "License": {
  "license_id": "${fake.random.uuid()}",
  "customer_id": "${fake.random.uuid()}",
  "installation_id": "*",
  "issue_time": "2021-01-13T15:25:19.052900132Z",
  "start_time": "2021-01-13T00:00:00Z",
  "expiration_time": "${env('CONSUL_LICENSE_EXPIRATION', '2022-05-02T23:59:59.999Z')}",
  "termination_time": "${env('CONSUL_LICENSE_TERMINATION', '2022-01-13T23:59:59.999Z')}",
  "product": "consul",
  "flags": {
    "modules": [
      "global-visibility-routing-scale",
      "governance-policy"
    ]
  },
  "modules": [
    "Global Visibility, Routing and Scale",
    "Governance and Policy"
  ],
  "features": [
    "Automated Backups",
    "Automated Upgrades",
    "Enhanced Read Scalability",
    "Network Segments",
    "Redundancy Zone",
    "Advanced Network Federation",
    "Namespaces",
```

```
    "SSO",
    "Audit Logging",
    "Admin Partitions"
  ]
 },
 "Warnings": [
 ]
}
{
 "name": "envoy.filters.http.jwt_authn",
 "typedConfig": {
  "@type": "type.googleapis.com/envoy.extensions.filters.http.jwt_authn.v3.JwtAuthentication",
  "providers": {
    "okta": {
      "issuer": "test-issuer",
      "payloadInMetadata": "jwt_payload_okta",
      "remoteJwks": {
        "asyncFetch": {
          "fastListener": true
        },
        "httpUri": {
          "cluster": "jwks_cluster_okta",
          "timeout": "1s",
          "uri": "https://example-okta.com/.well-known/jwks.json"
        }
      }
    }
  },
  "rules": [
    {
      "match": {
        "prefix": "/"
      },
      "requires": {
        "requiresAny": {
          "requirements": [
            {
              "providerName": "okta"
            },
            {
              "allowMissingOrFailed": {}
            }
          ]
        }
      }
    }
  ]
 }
```

```
}
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

@import './skin';
@import './layout';
.consul-intention-permission-header-list {
 > ul > li {
   @extend %list-row-200;
 }
}
```

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this should make it clear:

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the design is owned solely by HashiCorp, Inc.

```
{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
   "rules": {
     "policies": {
       "consul-intentions-layer7-0": {
         "permissions": [
           {
             "andRules": {
               "rules": [
                 {
                   "andRules": {
                     "rules": [
                       {
                         "urlPath": {
                           "path": {
                             "prefix": "/v1"
                           }
                         }
                       },
                       {
                         "header": {
                           "name": "x-foo",
                           "presentMatch": true
```

```
            }
          }
        ]
      }
    },
    {
      "notRule": {
        "andRules": {

        "rules": [
          {
            "urlPath": {
              "path": {
                "exact": "/v1/secret"
              }
            }
          },
          {
            "header": {
              "name": "x-baz",
              "presentMatch": true
            }
          },
          {
            "header": {
              "name": "x-bar",
              "presentMatch": true
            }
          }
        ]
      }
    }
  },
  {
    "notRule": {
      "andRules": {
        "rules": [
          {

"urlPath": {
              "path": {
                "exact": "/v1/admin"
              }
            }
          },
          {
            "header": {
              "name": "x-baz",
```

```
                "presentMatch": true
              }
            },
            {
              "header": {
                "name": "x-bar",
                "presentMatch": true
              }
            }
          ]
        }
      }
    }
  ]
}
}
  }
  ],
  "principals": [
    {
      "authenticated": {
        "principalName": {
          "safeRegex": {
            "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
          }
        }
      }
    }
  ]
}
}
}
}
# License

```hbs preview-template
<figure>
 <figcaption>URI: <code>/:partition/:nspace/:dc/license</code></figcaption>
 <DataSource
   @src={{
     uri '/${partition}/${nspace}/${dc}/license'
     (hash
       partition='partition'
       nspace='ns'
       dc='dc-1'
     )
   }}
   @onchange={{action (mut data) value="data"}}
```
```

```
 />
 <pre><code>{{json-stringify data null 4}}</code></pre>
</figure>
```
---
page_title: Automated license utilization reporting
description: >-
 Learn what data HashiCorp collects to meter Enterprise license utilization. Enable or disable reporting. Review sample payloads and logs.

Automated license utilization reporting

This topic describes how to enable automated license utilization reporting in Consul Enterprise. This feature automatically sends license utilization data to HashiCorp so that you do not have to manually collect and report it. It also enables you to review your license usage with the monitoring solution you already use, such as Splunk and Datadog, as you optimize and manage your deployments.

Introduction

You can use automated license utilization report to understand how much additional networking infrastructure you can deploy under your current contract. This feature helps you protect against overutilization and budget for predicted consumption.

Automated reporting shares the minimum data required to validate license utilization
 as defined in our contracts. This data mostly consists of computed metrics, and it will never contain Personal Identifiable Information (PII) or other sensitive information. Automated reporting shares the data with HashiCorp using a secure unidirectional HTTPS API and makes an auditable record in the product logs each time it submits a report. This process is GDPR-compliant.

Requirements

Automated license utilization reporting does not support _air-gapped installations_, which are systems with no network interfaces.

The following versions of Consul Enterprise support automated license utilization reporting:

- Consul Enterprise v1.16.0 and newer.
- Patch releases of Consul Enterprise v1.15.4 and newer.
- Patch releases of Consul Enterprise v1.14.8 and newer.
- Patch releases of Consul Enterprise v1.13.9 and newer.

Download a supported release from the [Consul Versions](https://releases.hashicorp.com/consul/) page.

Enable automated reporting

Before you enable automated reporting,

make sure that outbound network traffic is configured correctly and upgrade your enterprise product to a version that supports it. If your installation is air-gapped or network settings are not in place, automated reporting will not work.

To enable automated reporting, complete the following steps:

1. [Allow outbound HTTPS traffic on port 443](#allow-outbound-https-traffic)
1. [Check product logs](#check-product-logs)

Allow outbound HTTPS traffic on port 443

Make sure that your network allows HTTPS egress on port 443 from `https://reporting.hashicorp.services` by adding the following IP addresses to your allow-list:

- `100.20.70.12`
- `35.166.5.222`
- `23.95.85.111`
- `44.215.244.1`

Check product logs

Automatic license utilization reporting starts sending data within roughly 24 hours. Check the product logs for records that the data sent successfully.

<CodeBlockConfig hideClipboard>

```
[DEBUG] beginning snapshot export
[DEBUG] creating payload
[DEBUG] marshalling
 payload to json
[DEBUG] generating authentication headers
[DEBUG] creating request
[DEBUG] sending request
[DEBUG] performing request: method=POST url=https://census.license.hashicorp.services
[DEBUG] recording audit record
[INFO]  reporting: Report sent: auditRecord={"payload":{"payload_version":"1","license_id":"d2cdd857-4202-5a45-70a6-e4b531050c34","product":"consul","product_version":"1.16.0-dev+ent","export_timestamp":"2023-05-26T20:09:13.753921087Z","snapshots":[{"snapshot_version":1,"snapshot_id":"0001J724F90F4XWQDSAA76ZQWA","process_id":"01H1CTJPC1S8H7Q45MKTJ689ZW","timestamp":"2023-05-26T20:09:13.753513962Z","schema_version":"1.0.0","service":"consul","metrics":{"consul.billable.nodes":{"key":"consul.billable.nodes","kind":"counter","mode":"write","value":2},"consul.billable.service_instances":{"key":"consul.billable.service_instances","kind":"counter","mode":"write","value":2}}}],"metadata":{}}}
[DEBUG] completed recording audit record
[DEBUG] export finished successfully"
```

</CodeBlockConfig>

If
 your installation is air-gapped or your network does not allow the correct egress, the logs show an error.

<CodeBlockConfig hideClipboard>

```
[DEBUG] reporting: beginning snapshot export
[DEBUG] reporting: creating payload
[DEBUG] reporting: marshalling payload to json
[DEBUG] reporting: generating authentication headers
[DEBUG] reporting: creating request
[DEBUG] reporting: sending request
[DEBUG] reporting: performing request: method=POST url=https://census.license.hashicorp.services
[DEBUG] reporting: error status code received: statusCode=403
```

</CodeBlockConfig>

In this case, reconfigure your network to allow egress and check the logs again in roughly 24 hours to confirm that automated reporting works correctly.

Opt out

If your installation is air-gapped or you want to manually collect and report on the same license utilization metrics, you can opt out of automated reporting.

Manually reporting these metrics can be time consuming. Opting
 out of automated reporting does not mean that you also opt out from sending license utilization metrics. Customers who opt out of automated reporting are still required to manually collect and send license utilization metrics to HashiCorp.

If you are considering opting out because you are worried about the data, we strongly recommend that you review the [example payloads](#example-payloads) before opting out. If you have concerns with any of the automatically reported data, raise these concerns with your account manager.

There are two methods for opting out of automated reporting:

- HCL configuration (recommended)
- Environment variable (requires restart)

We recommend opting out in your product's configuration file because it does not require a system restart. Add the following block to your `configuration.hcl` or `configuration.json` file.

```hcl
reporting {
 license {
  enabled = false
```

```
 }
}
```

When opting out using an environment variable, the system provides a startup message
 confirming that you have disabled automated reporting. Set the following environment variable to disable automated reporting:

<CodeBlockConfig>

```shell-session
$ export OPTOUT_LICENSE_REPORTING=true
```

</CodeBlockConfig>

After you set the environment variable, restart your system to complete the process for opting out.

```shell-session
$ consul reload
```

Check your product logs roughly 24 hours after opting out to make sure that the system is not trying to send reports. Keep in mind that if your configuration file and environment variable differ, the environment variable setting takes precedence.

Example payloads

HashiCorp collects the following utilization data as JSON payloads:
`exporter_version` - The version of the licensing exporter

<CodeBlockConfig hideClipboard>

```json
{
 "payload": {
   "payload_version": "1",
   "license_id": "d2cdd857-4202-5a45-70a6-e4b531050c34",
   "product": "consul",
   "product_version": "1.16.0-dev+ent",
   "export_timestamp":
 "2023-05-26T20:09:13.753921087Z",
   "snapshots": [
     {
       "snapshot_version": 1,
       "snapshot_id": "0001J724F90F4XWQDSAA76ZQWA",
       "process_id": "01H1CTJPC1S8H7Q45MKTJ689ZW",
```

```
      "timestamp": "2023-05-26T20:09:13.753513962Z",
      "schema_version": "1.0.0",
      "service": "consul",
      "metrics": {
        "consul.billable.nodes": {
          "key": "consul.billable.nodes",
          "kind": "counter",
          "mode": "write",
          "value": 2
        },
        "consul.billable.service_instances": {
          "key": "consul.billable.service_instances",
          "kind": "counter",
          "mode": "write",
          "value": 2
        }
      }
    }
  ],
  "metadata": {}
 }
}
```


</CodeBlockConfig>
---
layout: docs
page_title: Storing the Enterprise License in Vault
description: >-
 Configuring the Consul Helm chart to use an enterprise license stored in Vault.

Storing the Enterprise License in Vault

This topic describes how to configure the Consul Helm chart to use an enterprise license stored in Vault.
Overview
Complete the steps outlined in the [Data Integration](/consul/docs/k8s/deployment-configurations/vault/data-integration) section to use an enterprise license stored in Vault.

Complete the following steps once:
1. Store the secret in Vault.
1. Create a Vault policy that authorizes the desired level of access to the secret.

Repeat the following steps for each datacenter in the cluster:
1. Create Vault Kubernetes auth roles that link the policy to each Consul on Kubernetes service account that requires access.
1. Update the Consul on Kubernetes helm chart.

Prerequisites

Prior to setting up the data integration between Vault and Consul on Kubernetes,
 you will need to have:

1. Read and completed the steps in the [Systems Integration](/consul/docs/k8s/deployment-configurations/vault/systems-integration) section of [Vault as a Secrets Backend](/consul/docs/k8s/deployment-configurations/vault).
2. Read the [Data Integration Overview](/consul/docs/k8s/deployment-configurations/vault/data-integration) section of [Vault as a Secrets Backend](/consul/docs/k8s/deployment-configurations/vault).

Store the Secret in Vault

First, store the enterprise license in Vault:

```shell-session
$ vault kv put consul-kv/secret/enterpriselicense key="<enterprise license>"
```

Create Vault policy

Next, you will need to create a policy that allows read access to this secret.

The path to the secret referenced in the `path` resource is the same value that you will configure in the `global.enterpriseLicense.secretName` Helm configuration (refer to [Update Consul on Kubernetes Helm chart](#update-consul-on-kubernetes-helm-chart)).

<CodeBlockConfig
 filename="license-policy.hcl">

```HCL
path "consul-kv/data/secret/enterpriselicense" {
 capabilities = ["read"]
}
```

</CodeBlockConfig>

Apply the Vault policy by issuing the `vault policy write` CLI command:

```shell-session
$ vault policy write license-policy license-policy.hcl
```

Create Vault Authorization Roles for Consul

Next, you will create Kubernetes auth roles for the Consul server and client:

```shell-session
$ vault write auth/kubernetes/role/consul-server \
```

```
  bound_service_account_names=<Consul server service account> \
  bound_service_account_namespaces=<Consul installation namespace> \
  policies=license-policy \
  ttl=1h
```

```shell-session
$ vault write auth/kubernetes/role/consul-client \
  bound_service_account_names=<Consul client service account> \
  bound_service_account_namespaces=<Consul installation namespace> \
  policies=license-policy \
  ttl=1h
```

To find out the service account names of the Consul server and client,
you can
 run the following `helm template` commands with your Consul on Kubernetes values file:

- Generate Consul server service account name
 ```shell-session
 $ helm template --release-name ${RELEASE_NAME} -s templates/server-serviceaccount.yaml hashicorp/consul -f values.yaml
 ```

- Generate Consul client service account name
 ```shell-session
 $ helm template --release-name ${RELEASE_NAME} -s templates/client-serviceaccount.yaml hashicorp/consul -f values.yaml
 ```

Update Consul on Kubernetes Helm chart.

Now that you have configured Vault, you can configure the Consul Helm chart to
use the enterprise enterprise license in Vault:

<CodeBlockConfig filename="values.yaml">

```yaml
global:
 image: hashicorp/consul-enterprise:1.12.0-ent
 secretsBackend:
   vault:
     enabled: true
     consulServerRole: consul-server
     consulClientRole: consul-client
 enterpriseLicense:
   secretName: consul-kv/data/secret/enterpriselicense
   secretKey: key
```

```

</CodeBlockConfig>

Note
 that `global.enterpriseLicense.secretName` is the path of the secret in Vault.
This should be the same path as the one you included in your Vault policy.
`global.enterpriseLicense.secretKey` is the key inside the secret data. This should be the same
as the key you passed when creating the enterprise license secret in Vault.
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}}

<Hds::Alert @type='inline' @color={{or @type "neutral"}} class='mb-2 mt-2 consul-intention-notice-custom-resource' as |A|>
 <A.Title>Intention Custom Resource</A.Title>
 <A.Description>Some of your intentions are being managed through an Intention Custom Resource in your Kubernetes cluster. Those managed intentions will be view only in the UI. Any intentions created in the UI will work but will not be synced to the Custom Resource Definition (CRD) datastore.</A.Description>
 <A.Link::Standalone @href="{{env 'CONSUL_DOCS_URL'}}/k8s/crds"
                @text='Learn more about CRDs'
                @icon="docs-link"
                @iconPosition="trailing"
                @size="small" />
</Hds::Alert>
/**
* Copyright (c) HashiCorp, Inc.
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*/

.consul-intention-permission-form {
 h2 {
   border-top: 1px solid var(--token-color-foreground-action);
   @extend %display-400-semibold;
 }
 button.type-submit {
   @extend %frame-blue-300;
 }
 button.type-submit:hover:not(:disabled),
 button.type-submit:focus:not(:disabled) {
   @extend %frame-blue-500;
 }
 button.type-submit:disabled {
   @extend %frame-blue-200;
 }
}
```

```
.consul-intention-view {
 h2 {
   @extend %display-400-semibold;
 }
}
```

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---
layout: docs
page_title: Consul-Terraform-Sync Enterprise License
description: >-
 Consul-Terraform-Sync Enterprise License

Consul-Terraform-Sync Enterprise License

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 Licenses are only required for Consul-Terraform-Sync (CTS) Enterprise
</EnterpriseAlert>

CTS Enterprise binaries require a [Consul Enterprise license](/consul/docs/enterprise/license/overview) to run. There is no CTS Enterprise specific license. As a result, CTS Enterprise's licensing is very similar to Consul Enterprise.

All CTS Enterprise features are available with a valid Consul Enterprise license, regardless of your Consul Enterprise packaging or pricing model.

To get a trial license for CTS, you can sign-up for the [trial license for Consul Enterprise](/consul/docs/enterprise/license/faq#q-where-can-users-get-a-trial-license-for-consul-enterprise).

Automatic License Retrieval
CTS automatically retrieves a license from Consul on startup and then attempts to retrieve a new license once a day. If the current license is reaching its expiration date, CTS attempts to retrieve a license with increased frequency, as defined by the [License Expiration Date Handling](/consul/docs/nia/enterprise/license#license-expiration-handling).

~> Enabling automatic license retrieval is recommended when using HCP Consul Dedicated, as HCP Consul Dedicated licenses expire more frequently than Consul Enterprise licenses. Without auto-retrieval enabled, you have to restart CTS every time you load a new license.

Setting the License Manually

If a license needs to be manually set, choose one of the following methods (in order of precedence) to set the license:

1. Set the `CONSUL_LICENSE` environment variable to the license string.

  ```shell-session
  export CONSUL_LICENSE=<LICENSE_VALUE>
  ```

1. Set the `CONSUL_LICENSE_PATH` environment variable to the path of the file containing the license.

  ```shell-session
  export CONSUL_LICENSE_PATH=<PATH>/<TO>/<FILE>
  ```

```

1. To
 point to the file containing the license, in the configuration file, configure the
[`license`](/consul/docs/nia/configuration#license) path option.

  ```hcl
  license {
    path = "<PATH>/<TO>/<FILE>"
  }
  ```

1. To point to the file containing the license, in the configuration file, configure the
[`license_path`](/consul/docs/nia/configuration#license_path) option i. **Deprecated in CTS 0.6.0 and will be removed in a future release. Use [license block](/consul/docs/nia/configuration#license) instead.**

  ```hcl
  license_path = "<PATH>/<TO>/<FILE>"
  ```

~> **Note**: the [options to set the license and the order of
precedence](/consul/docs/enterprise/license/overview#binaries-without-built-in-licenses) are the same as Consul Enterprise server agents.
Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license key.

Updating the License Manually
To update the license
 when it expires or is near the expiration date and automatic license retrieval is disabled:

1. Update the license environment variable or configuration with the new license value or path to the new license file
1. Stop and restart CTS Enterprise

Once CTS Enterprise starts again, it will pick up the new license and run the tasks with any changes that may have occurred between the stop and restart period.

License Expiration Handling

Licenses have an expiration date and a termination date. The termination date is a time at or after the license expires. CTS Enterprise will cease to function once the termination date has passed.

The time between the expiration and termination dates is a grace period. Grace periods are generally 24-hours, but you should refer to your license agreement for complete terms of your grace period.

When approaching expiration and termination, by default, CTS Enterprise will attempt to retrieve a new license. If auto-retrieval is disabled, CTS Enterprise will
  ```

provide notifications in the system logs:

Time period	Behavior - auto-retrieval enabled (default)	Behavior - auto-retrieval disabled
30 days before expiration	License retrieval attempt every 24-hours	Warning-level log every 24-hours
7 days before expiration	License retrieval attempt every 1 hour	Warning-level log every 1 hour
1 day before expiration	License retrieval attempt every 5 minutes	Warning-level log every 5 minutes
1 hour before expiration	License retrieval attempt every 1 minute	Warning-level log every 1 minute
At or after expiration (before termination)	License retrieval attempt every 1 minute	Error-level log every 1 minute
At or after termination	Error-level log and exit	Error-level log and exit

~> **Note**: Notification frequency and [grace period](/consul/docs/enterprise/license/faq#q-is-there-a-grace-period-when-licenses-expire) behavior is the same as Consul Enterprise.

/*!
* clipboard.js v2.0.11
* https://clipboardjs.com/
*
* Licensed MIT Zeno Rocha
*/

/*!
* focus-trap 6.9.4
* @license MIT, https://github.com/focus-trap/focus-trap/blob/master/LICENSE
*/

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{{#if (gt items.length 0)}}
<ListCollection
 class="consul-intention-permission-list{{if (not onclick) ' readonly'}}"
 @scroll="native"
 @items={{items}}
 @partial={{5}}
as |item|>
 <BlockSlot @name="details">
   <div onclick={{action (optional onclick) item}}>
     <strong class={{concat 'intent-' item.Action}}>{{capitalize item.Action}}</strong>
{{#if (gt item.HTTP.Methods.length 0)}}
       <dl class="permission-methods">
         <dt>
           <Tooltip>
             Methods
           </Tooltip>
         </dt>
         <dd>
{{#each item.HTTP.Methods as |item|}}
           {{item}}
{{/each}}
         </dd>
       </dl>
{{/if}}
{{#if item.HTTP.Path}}
       <dl class="permission-path">
         <dt>
           <Tooltip>
             {{item.HTTP.PathType}}
           </Tooltip>
         </dt>
         <dd>
           {{item.HTTP.Path}}
         </dd>
```

```
      </dl>
{{/if}}
{{#each item.HTTP.Header
 as |item|}}
      <dl class="permission-header">
        <dt>
          <Tooltip>
            Header
          </Tooltip>
        </dt>
        <dd>
          {{item.Name}} {{route-match item}}
        </dd>
      </dl>
{{/each}}
  </div>
 </BlockSlot>
{{#if onclick}}
 <BlockSlot @name="actions" as |Actions|>
  <Actions as |Action|>
    <Action data-test-edit-action @onclick={{action (optional onclick) item}} @close={{true}}>
      <BlockSlot @name="label">
        Edit
      </BlockSlot>
    </Action>
    <Action data-test-delete-action @onclick={{action ondelete item}} class="dangerous">
      <BlockSlot @name="label">
        Delete
      </BlockSlot>
      <BlockSlot @name="confirmation" as |Confirmation|>
        <Confirmation class="warning">
          <BlockSlot @name="header">
            Confirm delete
          </BlockSlot>
          <BlockSlot @name="body">
            <p>
              Are you sure you
 want to delete this permission?
            </p>
          </BlockSlot>
          <BlockSlot @name="confirm" as |Confirm|>
            <Confirm>Delete</Confirm>
          </BlockSlot>
        </Confirmation>
      </BlockSlot>
    </Action>
  </Actions>
 </BlockSlot>
```

```
{{/if}}
</ListCollection>
{{/if}}
{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
   "rules": {
     "policies": {
       "consul-intentions-layer7-0": {
         "permissions": [
           {
             "andRules": {
               "rules": [
                 {
                   "andRules": {
                     "rules": [
                       {
                         "urlPath": {
                           "path": {
                             "prefix": "/v1"
                           }
                         }
                       },
                       {
                         "header": {
                           "name": "x-foo",
                           "presentMatch": true
                         }
                       }
                     ]
                   }
                 },
                 {
                   "notRule": {
                     "andRules": {

                     "rules": [
                       {
                         "urlPath": {
                           "path": {
                             "exact": "/v1/secret"
                           }
                         }
                       },
                       {
                         "header": {
                           "name": "x-baz",
```

```
                "presentMatch": true
              }
            },
            {
              "header": {
                "name": "x-bar",
                "presentMatch": true
              }
            }
          ]
        }
      }
    },
    {
      "notRule": {
        "andRules": {
          "rules": [
            {

"urlPath": {
                "path": {
                  "exact": "/v1/admin"
                }
              }
            },
            {
              "header": {
                "name": "x-baz",
                "presentMatch": true
              }
            },
            {
              "header": {
                "name": "x-bar",
                "presentMatch": true
              }
            }
          ]
        }
      }
    }
  ]
}
},
{
  "andRules": {
    "rules": [
      {
```

```
                "andRules": {
                  "rules": [
                    {

  "urlPath": {
                      "path": {
                        "prefix": "/v2"
                      }
                    }
                  },
                  {
                    "header": {
                      "name": "x-foo",
                      "presentMatch": true
                    }
                  }
                ]
              }
            },
            {
              "notRule": {
                "andRules": {
                  "rules": [
                    {
                      "urlPath": {
                        "path": {
                          "exact": "/v2/secret"
                        }
                      }
                    },
                    {
                      "header": {
                        "name": "x-baz",
                        "presentMatch":
true
                      }
                    },
                    {
                      "header": {
                        "name": "x-bar",
                        "presentMatch": true
                      }
                    }
                  ]
                }
              }
            },
            {
```

```
                "notRule": {
                  "andRules": {
                    "rules": [
                      {
                        "urlPath": {
                          "path": {
                            "exact": "/v2/admin"
                          }
                        }
                      },
                      {
                        "header": {
                          "name": "x-baz",
                          "presentMatch": true
                        }
                      },

            {
                        "header": {
                          "name": "x-bar",
                          "presentMatch": true
                        }
                      }
                    ]
                  }
                }
              }
            ]
          }
        }
      ],
      "principals": [
        {
          "authenticated": {
            "principalName": {
              "safeRegex": {
                "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
              }
            }
          }
        }
      ]
    }
  }
 }
}
```

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*/

.agentless-node-notice .hds-alert__title {
 display: flex;
 justify-content: space-between;
}
Mozilla Public License 2.0 (MPLv2.0)
---
layout: commands
page_title: 'Commands: License'
description: >
 The license command provides a datacenter-level view of the Consul
 Enterprise license.

Consul License

Command: `consul license`

<EnterpriseAlert />

The `license` command provides a list of all datacenters that use the Consul Enterprise license applied to the current datacenter.

~> **Warning**: Consul 1.10.0 removed the ability to set and reset the license using the CLI.
See the [licensing documentation](/consul/docs/enterprise/license/overview) for more information about
Consul Enterprise license management.

If ACLs are enabled then a token with operator privileges may be required in
order to use this command. Requests are forwarded internally to the leader
if required, so this can be run from any Consul node in a cluster. See the
[ACL Guide](/consul/tutorials/security/access-control-setup-production) for more information.

```text
Usage: consul license <subcommand> [options] [args]

 This command has subcommands
 for managing the Consul Enterprise license
 Here are some simple examples, and more detailed examples are
 available in the subcommands or the documentation.

 Install a new license from a file:

    $ consul license put @consul.license
```

Install a new license from stdin:

$ consul license put -

Install a new license from a string:

$ consul license put "<license blob>"

Retrieve the current license:

$ consul license get

Inspect a license:

$ consul license inspect "<path to license file>"

Reset the current license:

$ consul license reset

For more examples, ask for subcommand help or view the documentation.

Subcommands:
  get Get the active license
  inspect Inspect a signed license
  put Puts a new license in the datacenter
  reset Resets the license in the datacenter

```

## inspect

This command inspects and validates a license. Just like a Consul agent it
can load the license from a file
 on disk or from the `CONSUL_LICENSE` and
`CONSUL_LICENSE_PATH` environment variables.

Usage: `consul license inspect [<options>] [<license file>]`

Inspect a license contained in a file:

```
$ consul license inspect consul.hclic
```

Inspect a license loaded from the environment:

```

$ consul license inspect
```

This will look at the CONSUL_LICENSE environment variable first
and if not present then we will look for the file specified
by the CONSUL_LICENSE_PATH environment variable.

The output looks like this:

```
Source: /consul/config/consul.hclic (path from the CONSUL_LICENSE_PATH environment variable)
Product: consul
License ID: 6089174b-a713-74cf-4c8d-856b86f1ce50
Customer ID: 7c020610-60a2-7ccb-c210-20d899e5f3b4
Installation ID: *
Issue Time: 2020-09-14 19:45:56.212195875 +0000 UTC
Start Time: 2020-09-14 00:00:00 +0000 UTC
Expiration Time: 2021-09-14 23:59:59.999 +0000 UTC
Termination Time: 2021-09-14 23:59:59.999 +0000 UTC
Modules:
    Global Visibility, Routing and Scale
     Governance and Policy
Features:
    Automated Backups
    Automated Upgrades
    Enhanced Read Scalability
    Network Segments
    Redundancy Zone
    Advanced Network Federation
    Namespaces
    SSO
    Audit Logging
    Admin Partitions

License is valid

```

## put

-> **Deprecated** The ability to manage the cluster's license via the CLI
was removed in Consul 1.10. While the CLI command still exists it will
always return an error. This command will be fully removed in a future release.

Corresponding HTTP API Endpoint: [\[PUT\] /v1/operator/license](/consul/api-docs/operator/license#updating-the-consul-license)

This command sets the Consul Enterprise license.
```

The table below shows this command's [required ACLs](/consul/api-docs/api-structure#authentication). Configuration of
[blocking queries](/consul/api-docs/features/blocking) and [agent caching](/consul/api-docs/features/caching) are not supported from commands, but may be
 from the corresponding HTTP endpoint.

ACL Required
`operator:write`

Usage: `consul license put [options] LICENSE`

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
    Automated Backups
    Automated Upgrades
    Enhanced Read Scalability
    Network Segments
    Redundancy Zone
    Advanced Network Federation
```

API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

get

Corresponding HTTP API Endpoint: [\[GET\] /v1/operator/license](/consul/api-docs/operator/license#getting-the-consul-license)

This command gets the Consul Enterprise license. If the leader hasn't been updated with the newer license, the followers
will display the outdated license in their GET output.

The table below

shows this command's [required ACLs](/consul/api-docs/api-structure#authentication). Configuration of [blocking queries](/consul/api-docs/features/blocking) and [agent caching](/consul/api-docs/features/caching) are not supported from commands, but may be from the corresponding HTTP endpoint.

ACL Required
`none`

Usage: `consul license get [options]`

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
    Automated Backups
    Automated Upgrades
    Enhanced Read Scalability
    Network Segments
    Redundancy Zone
    Advanced Network Federation
```

API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

reset

-> **Deprecated** The ability to manage the cluster's license via the CLI
was
removed in Consul 1.10. While the CLI command still exists it will
always return an error. This command will be fully removed in a future release.

Corresponding HTTP API Endpoint: [\[DELETE\] /v1/operator/license](/consul/api-docs/operator/license#resetting-the-consul-license)

Resets license for the datacenter to the one builtin in Consul binary, if it is still valid.
If the builtin license is invalid, the current one stays active.

The table below shows this command's [required ACLs](/consul/api-docs/api-structure#authentication).

Configuration of
[blocking queries](/consul/api-docs/features/blocking) and [agent caching](/consul/api-docs/features/caching) are not supported from commands, but may be from the corresponding HTTP endpoint.

ACL Required
`operator:write`

Usage: `consul license reset [options]`

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires
 At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
      Automated Backups
      Automated Upgrades
      Enhanced Read Scalability
      Network Segments
      Redundancy Zone
      Advanced Network Federation
```

API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'
{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
   "rules": {
     "policies": {
       "consul-intentions-layer7-0": {
         "permissions": [
           {
             "andRules": {
               "rules": [
                 {
                   "urlPath": {
                     "path": {

```
            "prefix": "some-path"
          }
        }
      },
      {
        "andRules": {
          "rules": [
            {
              "metadata": {
                "filter": "envoy.filters.http.jwt_authn",
                "path": [
                  {
                    "key": "jwt_payload_okta"
                  },
                  {
                    "key": "iss"
                  }

                ],
                "value": {
                  "stringMatch": {
                    "exact": "mytest.okta-issuer"
                  }
                }
              }
            },
            {
              "metadata": {
                "filter": "envoy.filters.http.jwt_authn",
                "path": [
                  {
                    "key": "jwt_payload_okta"
                  },
                  {
                    "key": "roles"
                  }
                ],
                "value": {
                  "stringMatch": {
                    "exact": "testing"
                  }
                }
              }
            }

]
        }
      }
```

```
            ]
          }
        }
      ],
      "principals": [
        {
          "authenticated": {
            "principalName": {
              "safeRegex": {
                "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
              }
            }
          }
        }
      ]
    }
  }
 }
}
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

section[data-route='dc.show.license'] {
 @extend %license-route;
}
%license-route .validity {
 @extend %license-validity;
}
%license-route aside {
 @extend %license-route-learn-more;
}

%license-route h2 {
 @extend %display-400-semibold;
}

%license-validity p {
 color: var(--token-color-foreground-faint);
}
%license-validity dl {
 @extend %horizontal-kv-list;
 @extend %body-300-regular;
}
%license-validity dl .expired + dd {
 @extend %visually-hidden;
```

```
}
%license-validity dl dt::before {
 content: '';
 margin-right: 0.25rem; /* 4px */
}
%license-validity dl .expired::before {
 --icon-name: icon-x-circle;
 --icon-color: var(--token-color-foreground-critical);
}
%license-validity dl .warning::before {
 --icon-name: icon-alert-circle;
 --icon-color: var(--token-color-foreground-warning);
}
%license-validity dl .valid:not(.warning)::before {
 --icon-name: icon-check-circle;
 --icon-color: var(--token-color-foreground-success);
}

%license-route-learn-more
 {
 @extend %panel;
 box-shadow: none;
 padding: var(--padding-y) var(--padding-x);
 width: 40%;
 min-width: 413px;
 margin-top: 1rem; /* 16px */
}
%license-route-learn-more header > :first-child {
 @extend %display-300-semibold;
}
%license-route-learn-more header {
 margin-bottom: 1rem; /* 16px */
}
{{!
 Copyright (c) HashiCorp, Inc.
 SPDX-License-Identifier: BUSL-1.1
}}

<Route
 @name={{routeName}}
as |route|>
 <DataLoader
   @src={{
     uri '/${partition}/${nspace}/${dc}/license'
     (hash
       partition=route.params.partition
       nspace=route.params.nspace
       dc=route.params.dc
```

```
    )
  }}
 as |loader|>

{{#let
 loader.data
as |item|}}
  <BlockSlot @name="error">
    <ErrorState
      @error={{loader.error}}
      @login={{route.model.app.login.open}}
    />
  </BlockSlot>

  <BlockSlot @name="disconnected" as |after|>
    {{#if (eq loader.error.status "404")}}
      <Hds::Toast @color='warning'
        {{notification
          sticky=true
        }} as |T|>
        <T.Title>Warning!</T.Title>
        <T.Description>This service has been deregistered and no longer exists in the catalog.</T.Description>
      </Hds::Toast>
    {{else if (eq loader.error.status "403")}}
      <Hds::Toast @color='critical'
        {{notification
           sticky=true
        }} as |T|>
        <T.Title>Error!</T.Title>
        <T.Description>You no longer have access to this service.</T.Description>
      </Hds::Toast>
    {{else}}
      <Hds::Toast @color='warning'
        {{notification
          sticky=true
        }} as |T|>
        <T.Title>Warning!</T.Title>
        <T.Description>An error was returned whilst loading this data, refresh to try again.</T.Description>
      </Hds::Toast>
    {{/if}}
  </BlockSlot>

  <BlockSlot @name="loaded">
    <div class="tab-section">
      <section
        class={{class-map
          'validity'
          (array 'valid' item.Valid)
```

```
    }}
  >
    <header>
      <h2>
        {{compute (fn route.t 'expiry.header')}}
      </h2>
    </header>

    <p>
      {{compute (fn route.t 'expiry.${type}.body'
        (hash
          type=(if item.Valid 'valid' 'expired')

  date=(format-time item.License.expiration_time
            year='numeric'
            month='long'
            day='numeric'
          )
          time=(format-time item.License.expiration_time
            hour12=true
            hour='numeric'
            hourCycle='h12'
            minute='numeric'
            second='numeric'
            timeZoneName='short'
          )
          htmlSafe=true
        )
      )}}
    </p>

    <dl>
      <dt class={{class-map
          (array 'valid' item.Valid)
          (array 'expired' (not item.Valid))
          (array 'warning' (temporal-within item.License.expiration_time 2629800000))
        }}
      >
        {{compute (fn route.t 'expiry.${type}.header'
          (hash
            type=(if item.Valid 'valid' 'expired')
          )
        )}}
      </dt>

<dd>
        {{temporal-format item.License.expiration_time}}
      </dd>
```

```
        </dl>

        <aside>
          <header>
            <h3>
              {{compute (fn route.t 'documentation.title')}}
            </h3>
          </header>
          <div class="flex gap-1.5 flex-col">
            <Hds::Link::Standalone
              @text={{compute (fn route.t 'documentation.links.license-expiration.text')}}
              @href='{{concat (env 'CONSUL_DOCS_URL') (compute (fn route.t 'documentation.links.license-
expiration.link'))}}'
              @icon='docs-link'
              @iconPosition='trailing'
            />
            <Hds::Link::Standalone
              @text={{compute (fn route.t 'documentation.links.renewing-license.text')}}
              @href='{{concat (env 'CONSUL_DOCS_URL') (compute (fn route.t 'documentation.links.renewing-
license.link'))}}'
              @icon='docs-link'
              @iconPosition='trailing'

          />
            <Hds::Link::Standalone
              @text={{compute (fn route.t 'documentation.links.applying-new-license.text')}}
              @href='{{concat (env 'CONSUL_DOCS_URL') (compute (fn route.t 'documentation.links.applying-new-
license.link'))}}'
              @icon='docs-link'
              @iconPosition='trailing'
            />
          </div>
        </aside>

      </section>
    </div>
  </BlockSlot>
{{/let}}
 </DataLoader>
</Route>
// Copyright (c) HashiCorp, Inc.
// SPDX-License-Identifier: MPL-2.0

package api

import (
 "io"
 "strings"
```

```
 "time"
)

type License struct {
 // The unique identifier of the license
 LicenseID string `json:"license_id"`

 // The customer ID associated with the license
 CustomerID string `json:"customer_id"`

 // If set, an identifier that should be used to lock the license to a
 // particular site, cluster, etc.
 InstallationID string `json:"installation_id"`

 // The time at which the license was issued
 IssueTime time.Time `json:"issue_time"`

 // The time at which the license starts being valid
 StartTime time.Time `json:"start_time"`

 // The time after which the license expires
 ExpirationTime time.Time `json:"expiration_time"`

 // The time at which the license ceases to function and can
 // no longer be used in any capacity
 TerminationTime time.Time `json:"termination_time"`

 // Whether the license will ignore termination
 IgnoreTermination bool `json:"ignore_termination"`

 //
 The product the license is valid for
 Product string `json:"product"`

 // License Specific Flags
 Flags map[string]interface{} `json:"flags"`

 // Modules is a list of the licensed enterprise modules
 Modules []string `json:"modules"`

 // List of features enabled by the license
 Features []string `json:"features"`
}

type LicenseReply struct {
 Valid    bool
 License  *License
 Warnings []string
```

```
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
 var reply LicenseReply
 if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
  return nil, err
 } else {
  return &reply, nil
 }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
 r := op.c.newRequest("GET", "/v1/operator/license")
 r.params.Set("signed", "1")
 r.setQueryOptions(q)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return "", err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return "", err
 }

 data, err := io.ReadAll(resp.Body)
 if
 err != nil {
  return "", err
 }

 return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r := op.c.newRequest("DELETE", "/v1/operator/license")
 r.setWriteOptions(opts)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return nil, err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
```

```
 return nil, err
 }
 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
 }
 return &reply, nil
}

// LicensePut will configure the Consul Enterprise license for the target datacenter
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set
 via agent configuration instead of through the API
func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r := op.c.newRequest("PUT", "/v1/operator/license")
 r.setWriteOptions(opts)
 r.body = strings.NewReader(license)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return nil, err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return nil, err
 }

 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
 }

 return &reply, nil
}
---
layout: docs
page_title: Enterprise Licenses
description: >-
 Consul Enterprise server, client, and snapshot agents require a license on startup in order to use Enterprise features.
Learn how to apply licenses using environment variables or configuration files.
---

# Consul Enterprise License

## Licensing Overview

All Consul Enterprise agents must be licensed when they are started. Where that license comes from will depend
on which binary is in use, whether the agent is a server, client or snapshot agent, and whether ACLs have been
enabled for the cluster.
```

-> ** Consul Enterprise 1.10.0 removed temporary licensing.** Prior to 1.10.0, Consul Enterprise agents could start without a license and then have a license applied to them later on via the CLI or API. That functionality has been removed and replaced with the ability to load licenses from the agent's configuration or environment. Also, prior to 1.10.0, server agents would automatically propagate the license between themselves.
This no longer occurs and the license must be present on each server agent when it is started.

Consul Enterprise 1.14.0, when running on Kubernetes, removed client agents and replaced these with virtual agents.
Virtual agents are nodes that Consul service mesh services run on. HashiCorp uses virtual agents to determine license entitlements for customers on per-node licensing and pricing agreements.

-> Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license key.

Applying a License

For Consul Enterprise 1.10.0 or greater, a license must be available at the time the agent starts.
For server agents this means that they must either have the [`license_path`](/consul/docs/agent/config/config-files#license_path)
configuration set or have a license configured in the servers environment with the `CONSUL_LICENSE` or `CONSUL_LICENSE_PATH` environment variables. Both the configuration item and the `CONSUL_LICENSE_PATH`
environment variable point to a file containing the license whereas the `CONSUL_LICENSE` environment variable should contain the license as the value. If multiple variables are set,
the following order of precedence applies:

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

Client agents and [snapshot agents](/consul/docs/enterprise/backups)
may also be licensed in the very same manner.
However, to avoid the need to configure the license on many client agents and snapshot agents,
those agents have the capability to retrieve the license automatically under the conditions described below.

Virtual agents do not need the license to run.

Updating the license for an agent depends on the method you used to apply the license.
- **If you used the `CONSUL_LICENSE`
environment variable**: After updating the environment variable, restart the affected agents.
- **If you used the
`CONSUL_LICENSE_PATH`
environment variable**: Update the license file first. Then, restart the affected agents.
- **If you used the `license_path` configuration item**: Update the license file first. Then, run [`consul reload`](/consul/commands/reload) for the affected agents.

Client Agent License Retrieval

When a client agent starts without a license in its configuration or environment, it will try to retrieve the license from the servers via RPCs. That RPC always requires a valid non-anonymous ACL token to authorize the request but the token doesn't need any particular permissions. As the license is required before the client actually joins the cluster, where to make those RPC requests to is inferred from the [`retry_join`](/consul/docs/agent/config/config-files#retry_join) configuration. If `retry_join` is unset or no [`agent` token](/consul/docs/agent/config/config-files#acl_tokens_agent) is set then the client agent will immediately shut itself down.

If all preliminary checks
 pass the client agent will attempt to reach out to any server on its RPC port to
request the license. These requests will be retried for up to 5 minutes and if it is unable to retrieve a license within that time frame it will shut itself down.

If ACLs are disabled then the license must be provided to the client agent through one of the three methods listed below.
Failure in providing the client agent with a licence will prevent the client agent from joining the cluster.

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

Snapshot Agent License Retrieval

The snapshot agent has similar functionality to the client agent for automatically retrieving the license. However, instead of requiring a server agent to talk to, the snapshot agent can request the license from the server or client agent it would use for all other operations. It still requires an ACL token to authorize the request. Also like client agents,
 the snapshot agent will shut itself down after being unable to retrieve the license for 5
minutes.

```
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

.consul-intention-permission-header-list {
 dt::before {
   @extend %with-glyph-icon;
   content: 'H';
 }
}
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/
```

```
.consul-intention-permission-list {
 .detail > div {
   display: flex;
   width: 100%;
 }
 strong {
   margin-right: 8px;
 }
}
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

.consul-intention-permission-list {
 dt::before {
   @extend %with-glyph-icon;
 }
 dl.permission-methods dt::before {
   content: 'M';
 }
 dl.permission-path dt::before {
   content: 'P';
 }
 dl.permission-header dt::before {
   content: 'H';
 }
}
{{!
 Copyright (c) HashiCorp, Inc.
 SPDX-License-Identifier: BUSL-1.1
}}

{{#if isVisible}}
 <Hds::Alert @type="inline" class='mb-3 mt-2 agentless-node-notice' data-test-node-agentless-notice as |A|>
   <A.Title>
     <span>{{t 'routes.dc.nodes.index.agentless.notice.header'}}</span>
     <Hds::Button
       @color='secondary'
       @text='Dismiss notice'
       {{on 'click' this.dismissAgentlessNotice}}
       @icon='x'
       @size='small'
       @isIconOnly={{true}}
     />
   </A.Title>
   <A.Description>{{t 'routes.dc.nodes.index.agentless.notice.body'}}</A.Description>
   <A.Link::Standalone @href='{{env "CONSUL_DOCS_DEVELOPER_URL"}}/connect/dataplane'
```

```
                @text={{t 'routes.dc.nodes.index.agentless.notice.footer'}}
                @icon='docs-link'
                @iconPosition='trailing' />
 </Hds::Alert>
{{/if}}
/*!
* QUnit 2.19.4
* https://qunitjs.com/
*
* Copyright OpenJS Foundation and other contributors
* Released under the MIT license
* https://jquery.org/license
*/
{{!
 Copyright (c) HashiCorp, Inc.
 SPDX-License-Identifier: BUSL-1.1
}}

<Hds::Alert @type="inline" class="mb-3 mt-2" as |A|>
 <A.Description>{{t "components.consul.intention.notice.permissions.body"}}</A.Description>
 <A.Link::Standalone
   @text={{t "components.consul.intention.notice.permissions.footer"}}
   @href="{{env 'CONSUL_DOCS_URL'}}/connect/intentions"
   @icon="docs-link"
   @iconPosition="trailing"
   @size="small"
 />
</Hds::Alert>
```

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Parameters

Licensor: HashiCorp, Inc.
Licensed Work: Consul Version 1.17.0 or later. The Licensed Work is (c) 2024
HashiCorp, Inc.
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```
{
 "name": "envoy.filters.http.jwt_authn",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.jwt_authn.v3.JwtAuthentication",
   "providers": {
     "auth0": {
       "issuer": "another-issuer",
       "payloadInMetadata": "jwt_payload_auth0",
       "remoteJwks": {
         "asyncFetch": {
           "fastListener": true
         },
         "httpUri": {
           "cluster": "jwks_cluster_auth0",
           "timeout": "1s",
           "uri": "https://example-auth0.com/.well-known/jwks.json"
         }
       }
     },
     "okta": {
```

```
      "issuer": "test-issuer",
      "payloadInMetadata": "jwt_payload_okta",
      "remoteJwks": {
        "asyncFetch": {
          "fastListener": true
        },
        "httpUri": {
          "cluster": "jwks_cluster_okta",
          "timeout": "1s",
          "uri": "https://example-okta.com/.well-known/jwks.json"
        }
      }
    }
  },
  "rules": [
    {

"match": {
        "prefix": "/"
      },
      "requires": {
        "requiresAll": {
          "requirements": [
            {
              "requiresAny": {
                "requirements": [
                  {
                    "providerName": "okta"
                  },
                  {
                    "allowMissingOrFailed": {}
                  }
                ]
              }
            },
            {
              "requiresAny": {
                "requirements": [
                  {
                    "providerName": "auth0"
                  },
                  {
                    "allowMissingOrFailed": {}
                  }
                ]
              }
            }
          ]
```

```
        }
      }
    }
  ]
 }
}
{{!
 Copyright (c) HashiCorp, Inc.
 SPDX-License-Identifier: BUSL-1.1
}}

<div
 ...attributes
 class="consul-intention-permission-form"
>
<FormGroup
 @name={{name}}
as |group|>

 {{yield (hash
   submit=(action 'submit' changeset)
   reset=(action 'reset' changeset)

   isDirty=(and changeset.isValid)
   changeset=changeset
 )}}

 <fieldset>
   <div data-property="action">
     <span class="label">
       Should this permission allow the source connect to the destination?
     </span>
     <div role="radiogroup" class={{if changeset.error.Action ' has-error'}}>
       {{#each intents as |intent|}}
         <label>
           <span>{{capitalize intent}}</span>
           <input
             type="radio"
             name="Action"
             value={{intent}}
             checked={{if (eq changeset.Action intent) 'checked'}}
             onchange={{action (changeset-set changeset 'Action') value="target.value"}}
           />
         </label>
       {{/each}}
      </div>
   </div>
 </fieldset>
```

```
<fieldset>
  <header>
    <h2>Path</h2>
  </header>
  <div>
      <group.Element
        @name="PathType"
        @type="select"
      as |el|>
        <el.Label>
          Path type
        </el.Label>
        <PowerSelect
          @options={{pathTypes}}
          @selected={{pathType}}
          @onChange={{action 'change' 'HTTP.PathType' changeset}} as |Type|>
            {{get pathLabels Type}}
        </PowerSelect>
      </group.Element>

{{#if shouldShowPathField}}
      <group.Element
        @name="Path"
        @error={{changeset-get changeset 'error.HTTP.Path'}}
      as |el|>
        <el.Label>
          {{get pathLabels pathType}}
        </el.Label>
        <el.Text
          @value={{changeset-get changeset 'HTTP.Path'}}
          oninput={{action 'change' 'HTTP.Path' changeset}}
        />
        <State @state={{el.state}} @matches="error">
          <el.Error>

            {{#if (eq (changeset-get changeset 'HTTP.Path') 'Regex')}}
              Path Regex should not be blank
            {{else}}
              Path should begin with a '/'
            {{/if}}
          </el.Error>
        </State>
      </group.Element>
{{/if}}

  </div>
</fieldset>
```

```
<fieldset>
  <h2>Methods</h2>
  <div class="type-toggle">
    <span>All methods are applied by default unless specified</span>
    <group.Element
      @name="allMethods"
    as |el|>
      <el.Checkbox
        checked={{if allMethods 'checked'}}
        onchange={{action 'change' 'allMethods' changeset}}
      />
      <el.Label>
        All Methods
      </el.Label>
    </group.Element>
  </div>

{{#if shouldShowMethods}}
  <div class="checkbox-group" role="group">
    {{#each methods as |method|}}
      <label class="type-checkbox">
        <input
          type="checkbox"
          name="method"
          value={{method}}

  checked={{if (includes method changeset.HTTP.Methods) 'checked'}}
          onchange={{action 'change' 'method' changeset}}
        />
        <span>{{method}}</span>
      </label>
    {{/each}}
  </div>
{{/if}}
</fieldset>

<fieldset>
  <h2>Headers</h2>

  <Consul::Intention::Permission::Header::List
    @items={{changeset-get changeset 'HTTP.Header'}}
    @ondelete={{action 'delete' 'HTTP.Header' changeset}}
  as |headerList|>

  </Consul::Intention::Permission::Header::List>

  <Consul::Intention::Permission::Header::Form
```

```
    @onsubmit={{action 'add' 'HTTP.Header' changeset}}
  as |headerForm|>
    <Ref @target={{this}} @name="headerForm" @value={{headerForm}} />
  </Consul::Intention::Permission::Header::Form>

  <Hds::ButtonSet>
    <Hds::Button
      data-test-add-header
      @text='Add{{if (gt (get (changeset-get changeset 'HTTP.Header') 'length') 0) ' another' ''}} header'
      @color='primary'
      disabled={{if (not this.headerForm.isDirty)
 'disabled'}}
      onclick={{action this.headerForm.submit}}
    />
    <Hds::Button
      @text='Cancel'
      @color='secondary'
      onclick={{action this.headerForm.reset}}
    />
  </Hds::ButtonSet>
 </fieldset>
 </FormGroup>
</div>
```

1.2865 zlib 1.3.1

1.2865.1 Available under license :

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1.2866 consul-api 1.12.0

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---
layout: docs
page_title: Consul-Terraform-Sync Enterprise License
description: >-
Consul-Terraform-Sync Enterprise License

Consul-Terraform-Sync Enterprise License

<EnterpriseAlert>
Licenses are only required for Consul-Terraform-Sync Enterprise
</EnterpriseAlert>

Consul-Terraform-Sync Enterprise binaries require a [Consul Enterprise license](/docs/enterprise/license/overview) to run. There is no Consul-Terraform-Sync Enterprise specific license. As a result, Consul-Terraform-Sync Enterprise's licensing is very similar to Consul Enterprise.

All Consul-Terraform-Sync Enterprise features are available with a valid Consul Enterprise license, regardless of your Consul Enterprise packaging or pricing model.

To get a trial license for Consul-Terraform-Sync Enterprise, you can sign-up for the [trial license for Consul Enterprise](/docs/enterprise/license/faq#q-where-can-users-get-a-trial-license-for-consul-enterprise).

Setting the License

Choose one of the following methods
(in order of precedence) to set the license:

1. Set the `CONSUL_LICENSE` environment variable to the license string.

```shell-session
export CONSUL_LICENSE=<LICENSE_VALUE>
```

1. Set the `CONSUL_LICENSE_PATH` environment variable to the path of the file containing the license.

```shell-session
export CONSUL_LICENSE_PATH=<PATH>/<TO>/<FILE>
```

1. Configure the [`license_path`](/docs/nia/configuration#license_path) option in the configuration file to point to

the file containing the license.

```hcl
license_path = "<PATH>/<TO>/<FILE>"
```

~> **Note**: the [options to set the license and the order of precedence](/docs/enterprise/license/overview#binaries-without-built-in-licenses) are the same as Consul Enterprise server agents.
Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.

Updating the License

The previous section describes options for [setting the license](#setting-the-license) needed to start running Consul-Terraform-Sync Enterprise. Use the following procedure to update the license when it expires or is near the expiration date:

1. Update the license environment variable or configuration with the new license value or path to the new license file
1. Stop and restart Consul-Terraform-Sync Enterprise

Once Consul-Terraform-Sync Enterprise starts again, it will pick up the new license and run the tasks with any changes that may have occurred between the stop and restart period.

Notification and Termination Behavior

Licenses have an expiration date and a termination date. The termination date is a time at or after the license expires. Consul-Terraform-Sync Enterprise will cease to function once the termination date has passed.

The time between the expiration and termination dates is a grace period. Grace periods are generally 24-hours, but you should refer to your license agreement for complete terms of your grace period.

When approaching expiration and termination, Consul-Terraform-Sync Enterprise will provide notifications in the system logs:

Time period	Behavior
30 days before expiration	Warning-level log every 24-hours
7 days before expiration	Warning-level log every 1 hour
1 hour before expiration	Warning-level log every 1 minute
1 day before expiration	Warning-level log every 5 minutes
At or after expiration (before termination)	Error-level log every 1 minute
At or after termination	Error-level log and exit

~> **Note**: Notification frequency and [grace period](/docs/enterprise/license/faq#q-is-there-a-grace-period-when-licenses-expire) behavior is the same as

```
 Consul Enterprise.
<div
 ...attributes
 class="consul-intention-permission-header-form"
>
 <FormGroup
   @name={{name}}
 as |group|>

   {{yield (hash
     submit=(action 'submit' changeset)
     reset=(action 'reset' changeset)

     isDirty=(and changeset.isValid changeset.isDirty)
     changeset=changeset
   )}}

   <fieldset>
     <div>
       <group.Element
         @name="HeaderType"
         @type="select"
       as |el|>
         <el.Label>Header type</el.Label>
         <PowerSelect
           @options={{headerTypes}}
           @selected={{headerType}}
           @onChange={{action 'change' 'HeaderType' changeset}} as |Type|>
             {{get headerLabels Type}}
         </PowerSelect>
       </group.Element>


       <group.Element
         @name="Name"
         @error={{changeset-get changeset 'error.Name'}}
       as |el|>
         <el.Label>Header name</el.Label>
         <el.Text
           @value={{changeset-get changeset 'Name'}}
           oninput={{action
'change' 'Name' changeset}}
         />
         <State @state={{el.state}} @matches="error">
           <el.Error>
             {{changeset-get changeset 'error.Name.validation'}}
           </el.Error>
         </State>
```

```
      </group.Element>

 {{#if shouldShowValueField}}
      <group.Element
        @name="Value"
        @error={{changeset-get changeset 'error.Value'}}
      as |el|>
        <el.Label>Header {{lowercase (get headerLabels headerType)}}</el.Label>
        <el.Text
          @value={{changeset-get changeset 'Value'}}
          oninput={{action 'change' 'Value' changeset}}
        />
        <State @state={{el.state}} @matches="error">
          <el.Error>
            {{changeset-get changeset 'error.Value.validation'}}
          </el.Error>
        </State>
      </group.Element>
 {{/if}}

    </div>
  </fieldset>
 </FormGroup>
</div>
---
layout: api
page_title: License - Operator - HTTP API
description: |-
 The /operator/license endpoint allows for retrieving the Consul
 Enterprise License.
---

# License - Operator HTTP API

<EnterpriseAlert />

The licensing functionality described here is available only in
[Consul Enterprise](https://www.hashicorp.com/products/consul/) version 1.1.0 and later.

## Getting the Consul License

This endpoint gets information about the current license.

| Method | Path                | Produces           |
| ------ | ------------------- | ------------------ |
| `GET`  | `/operator/license` | `application/json` |

The table below shows this endpoint's support for
```

[blocking queries](/api/features/blocking),
[consistency modes](/api/features/consistency),
[agent caching](/api/features/caching), and
[required ACLs](/api#authentication).

Blocking Queries	Consistency Modes	Agent Caching	ACL Required
`NO`
`all`	`none`	`none`

Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be retrieved.
 This will default to the datacenter of the agent serving the HTTP request.
 This is specified as a URL query parameter.

Sample Request

```shell-session
$ curl \
  http://127.0.0.1:8500/v1/operator/license
```

Sample Response

```json
{
 "Valid": true,
 "License": {
  "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
  "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
  "installation_id": "*",
  "issue_time": "2018-05-21T20:03:35.911567355Z",
  "start_time": "2018-05-21T04:00:00Z",
  "expiration_time": "2019-05-22T03:59:59.999Z",
  "product": "consul",
  "flags": {
   "package": "premium"
  },
  "features": [
   "Automated Backups",
   "Automated Upgrades",
   "Enhanced Read Scalability",
   "Network Segments",
   "Redundancy Zone",
   "Advanced Network Federation"
  ],
  "temporary": false
```

```
 },
 "Warnings": []
}
```

Updating the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with the ability to manage the cluster's license via the API.

This endpoint updates the Consul license and returns some of the license contents as well as any warning messages regarding its validity.

Method	Path	Produces
`PUT`	`/operator/license`	`application/json`

The table below shows this endpoint's support for [blocking queries](/api/features/blocking), [consistency modes](/api/features/consistency), [agent caching](/api/features/caching), and [required ACLs](/api#authentication).

Blocking Queries	Consistency Modes	Agent Caching	ACL Required
`NO`	`none`	`none`	`operator:write`

Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be updated. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

Sample Payload

The payload is the raw license blob.

Sample Request

```shell-session
$ curl \
   --request PUT \
   --data @consul.license \
   http://127.0.0.1:8500/v1/operator/license
```

Sample Response

```json
{
 "Valid": true,
 "License": {
   "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
   "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
   "installation_id": "*",
   "issue_time": "2018-05-21T20:03:35.911567355Z",
   "start_time": "2018-05-21T04:00:00Z",
   "expiration_time": "2019-05-22T03:59:59.999Z",
   "product": "consul",
   "flags": {
     "package": "premium"
   },
   "features": [
     "Automated Backups",
     "Automated Upgrades",
     "Enhanced Read Scalability",
     "Network Segments",
     "Redundancy Zone",
      "Advanced Network Federation"
   ],
   "temporary": false
 },
 "Warnings": []
}
```

Resetting the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with
the ability to manage the cluster's license via the API.

This endpoint resets the Consul license to the license included in the Enterprise binary. If the included license is not valid, the replace will fail.

Method	Path	Produces
`DELETE`	`/operator/license`	`application/json`

The table below shows this endpoint's support for
[blocking queries](/api/features/blocking),
[consistency modes](/api/features/consistency),
[agent caching](/api/features/caching), and
[required ACLs](/api#authentication).

| Blocking Queries | Consistency Modes | Agent Caching | ACL Required |

| ---------- | ---------- | ---------- | ---------- |
| `NO` | `none` | `none` | `operator:write` |

Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be updated.
 This will default to the datacenter of the agent serving the HTTP request.
 This is specified as a URL query parameter.

Sample Request

```shell-session
$ curl \
   --request DELETE \
   http://127.0.0.1:8500/v1/operator/license
```

Sample Response

```json
{
 "Valid": true,
 "License": {
   "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
   "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
   "installation_id": "*",
   "issue_time": "2018-05-21T20:03:35.911567355Z",
   "start_time": "2018-05-21T04:00:00Z",
   "expiration_time": "2019-05-22T03:59:59.999Z",
   "product": "consul",
   "flags": {
     "package": "premium"
   },
   "features": [
     "Automated Backups",
     "Automated Upgrades",
     "Enhanced Read Scalability",
     "Network Segments",
     "Redundancy Zone",
     "Advanced Network Federation"

   ],
   "temporary": false
 },
 "Warnings": []
}
```

---
layout: docs
page_title: Consul Enterprise License
description: Consul Enterprise License Overview.

Consul Enterprise License

Licensing

All Consul Enterprise agents must be licensed when they are started. Where that license comes from will depend on which binary is in use, whether the agent is a server, client or snapshot agent and whether ACLs have been enabled for the cluster.

-> ** Consul Enterprise 1.10.0 removed temporary licensing.** In previous versions Consul Enterprise agents could start without a license and then have a license applied to them later on via the CLI or API. That functionality has been removed and replaced with the ability to load licenses from the agent's configuration or environment. Also prior to 1.10.0 server agents would automatically propagate the license between themselves. This no longer occurs and the license must be present on each server when they are started.

-> Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise)
 for detailed steps on how to install the license key.

Binaries with Built In Licenses

If you are downloading Consul from Amazon S3, then the license is included
in the binary and you do not need to take further action. This is the
most common use case.

In the S3 bucket you will find three Enterprise zip packages. The packages with `+pro` and
`+prem` in the name, are the binaries that include the license. The package
with `+ent` in the name does not include the license.

When using these binaries no further action is necessary to configure the license.

Binaries Without Built In Licenses

For Consul Enterprise 1.10.0 or greater, binaries that do not include built in licenses a license must be available at the time the agent starts.
For server agents this means that they must either have the [`license_path`](/docs/agent/options#license_path) configuration set or have a license configured in the servers environment
 with the `CONSUL_LICENSE` or
`CONSUL_LICENSE_PATH` environment variables. Both the configuration item and the
`CONSUL_LICENSE_PATH`
environment variable point to a file containing the license whereas the `CONSUL_LICENSE` environment variable should contain the license as the value. If multiple of these are set the order of precedence is:

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

Both client agents and the snapshot agent may also be licensed in the very same manner. However to prevent the need to configure the license on many client agents and snapshot agents those agents have the capability to retrieve the license automatically under specific circumstances.

Client Agent License Retrieval

When a client agent starts without a license in its configuration or environment, it will try to retrieve the license from the servers via RPCs. That RPC always requires a valid non-anonymous ACL token to authorize the
request but the token doesn't need any particular permissions. As the license is required before the client actually joins the cluster, where to make those RPC requests to is inferred from the
[`start_join`](/docs/agent/options#start_join)
or [`retry_join`](/docs/agent/options#retry_join) configurations. If those are both unset or no
[`agent` token](/docs/agent/options#acl_tokens_agent) is set then the client agent will immediately shut itself down.

If all preliminary checks pass the client agent will attempt to reach out to any server on its RPC port to request the license. These requests will be retried for up to 5 minutes and if it is unable to retrieve a license within that time frame it will shut itself down.

If ACLs are disabled then the license must be provided to the client agent through one of the three methods listed below.
Failure in providing the client agent with a licence will prevent the client agent from joining the cluster.

1. `CONSUL_LICENSE` environment variable
2.
`CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

Snapshot Agent License Retrieval

The snapshot agent has similar functionality to the client agent for automatically retrieving the license. However, instead of requiring a server agent to talk to, the snapshot agent can request the license from the server or client agent it would use for all other operations. It still requires an ACL token to authorize the request. Also like client agents, the snapshot agent will shut itself down after being unable to retrieve the license for 5 minutes.
<div
...attributes
class="consul-intention-permission-form"
>
<FormGroup
@name={{name}}
as |group|>

```
{{yield (hash
  submit=(action 'submit' changeset)
  reset=(action 'reset' changeset)

  isDirty=(and changeset.isValid)
  changeset=changeset
)}}

<fieldset>
  <div data-property="action">
    <span class="label">
      Should this permission allow the source connect to the destination?
    </span>
    <div role="radiogroup" class={{if changeset.error.Action ' has-error'}}>
      {{#each intents as |intent|}}
        <label>
          <span>{{capitalize intent}}</span>
          <input
            type="radio"
            name="Action"
            value={{intent}}
            checked={{if (eq changeset.Action intent) 'checked'}}
            onchange={{action (changeset-set changeset 'Action') value="target.value"}}
          />
        </label>
      {{/each}}
    </div>
  </div>
</fieldset>

<fieldset>
  <header>
    <h2>Path</h2>
   </header>
  <div>
      <group.Element
        @name="PathType"
        @type="select"
      as |el|>
        <el.Label>
          Path type
        </el.Label>
        <PowerSelect
          @options={{pathTypes}}
          @selected={{pathType}}
          @onChange={{action 'change' 'HTTP.PathType' changeset}} as |Type|>
            {{get pathLabels Type}}
        </PowerSelect>
```

```
      </group.Element>

{{#if shouldShowPathField}}
      <group.Element
        @name="Path"
        @error={{changeset-get changeset 'error.HTTP.Path'}}
      as |el|>
        <el.Label>
          {{get pathLabels pathType}}
        </el.Label>
        <el.Text
          @value={{changeset-get changeset 'HTTP.Path'}}
          oninput={{action 'change' 'HTTP.Path' changeset}}
        />
        <State @state={{el.state}} @matches="error">
          <el.Error>
            {{#if (eq (changeset-get changeset 'HTTP.Path') 'Regex')}}

          Path Regex should not be blank
            {{else}}
              Path should begin with a '/'
            {{/if}}
          </el.Error>
        </State>
      </group.Element>
{{/if}}

  </div>
 </fieldset>

 <fieldset>
  <h2>Methods</h2>
  <div class="type-toggle">
    <span>All methods are applied by default unless specified</span>
    <group.Element
      @name="allMethods"
    as |el|>
      <el.Checkbox
        checked={{if allMethods 'checked'}}
        onchange={{action 'change' 'allMethods' changeset}}
      />
      <el.Label>
        All Methods
      </el.Label>
    </group.Element>
  </div>

{{#if shouldShowMethods}}
```

```
  <div class="checkbox-group" role="group">
    {{#each methods as |method|}}
      <label class="type-checkbox">
        <input
          type="checkbox"
          name="method"
          value={{method}}
          checked={{if (contains method changeset.HTTP.Methods) 'checked'}}

    onchange={{action 'change' 'method' changeset}}
        />
        <span>{{method}}</span>
      </label>
    {{/each}}
  </div>
{{/if}}
 </fieldset>

 <fieldset>
  <h2>Headers</h2>

  <Consul::Intention::Permission::Header::List
    @items={{changeset-get changeset 'HTTP.Header'}}
    @ondelete={{action 'delete' 'HTTP.Header' changeset}}
  as |headerList|>

  </Consul::Intention::Permission::Header::List>

  <Consul::Intention::Permission::Header::Form
    @onsubmit={{action 'add' 'HTTP.Header' changeset}}
  as |headerForm|>
    <Ref @target={{this}} @name="headerForm" @value={{headerForm}} />
  </Consul::Intention::Permission::Header::Form>

  <button
    data-test-add-header
    type="button"
    class="type-submit"
    disabled={{if (not this.headerForm.isDirty) 'disabled'}}
    onclick={{action this.headerForm.submit}}
  >
    Add{{#if (gt (get (changeset-get changeset 'HTTP.Header') 'length') 0)}} another{{/if}} header
  </button>
   <button
    type="button"
    class="type-cancel"
    onclick={{action this.headerForm.reset}}
  >
```

```
    Cancel
   </button>

  </fieldset>
  </FormGroup>
 </div>
 .consul-intention-permission-form {
  h2 {
   padding-top: 1.4em;
   margin-top: 0.2em;
   margin-bottom: 0.6em;
  }
  .consul-intention-permission-header-form {
   margin-top: 10px;
  }
  fieldset:nth-child(2) > div,
  .consul-intention-permission-header-form fieldset > div {
   display: grid;
   grid-template-columns: repeat(auto-fit, minmax(160px, 1fr));
   grid-gap: 12px;
  }
  fieldset:nth-child(2) > div label:last-child {
   grid-column: span 2;
  }
  .ember-basic-dropdown-trigger {
   padding: 5px;
  }
  .checkbox-group {
   flex-direction: column;
  }
 }
 .consul-intention-permission-form {
  h2 {
   border-top: 1px solid rgb(var(--tone-blue-500));
   @extend %h200;
  }
  button.type-submit {
   @extend %frame-blue-300;
  }
  button.type-submit:hover:not(:disabled),
  button.type-submit:focus:not(:disabled) {
   @extend %frame-blue-500;
  }
  button.type-submit:disabled {
   @extend %frame-blue-200;
  }
 }
```

```
<Notice
 @type="info"
as |notice|>
 <notice.Body>
   <p>
     {{t "components.consul.intention.notice.permissions.body"}}
   </p>
 </notice.Body>
 <notice.Footer>
   <p>
     <a href="{{env 'CONSUL_DOCS_URL'}}/connect/intentions" target="_blank" rel="noopener noreferrer">
       {{t "components.consul.intention.notice.permissions.footer"}}
     </a>
   </p>
 </notice.Footer>
</Notice>
```

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```
.consul-intention-permission-header-list {
 max-height: 200px;
 overflow: auto;
}
@import './skin';
@import './layout';
.consul-intention-permission-header-list {
 > ul > li {
   @extend %list-row-200;
 }
}
@import './skin';
@import './layout';
.consul-intention-permission-list > ul > li {
 @extend %list-row-200;
}
.consul-intention-permission-list:not(.readonly) > ul > li {
 @extend %with-composite-row-intent;
}
.consul-intention-permission-list strong {
 @extend %pill-500;
}
.consul-intention-permission-list .intent-allow {
 @extend %pill-allow;
}
.consul-intention-permission-list .intent-deny {
 @extend %pill-deny;
}
<div
 class="notice {{or @type 'info'}}"
 ...attributes
>
{{yield (hash
 Header=(component 'anonymous' tagName="header")
 Body=(component 'anonymous')
 Footer=(component 'anonymous' tagName="footer")
```

)}}

---
layout: commands
page_title: 'Commands: License'
description: >
 The license command provides a datacenter-level view of the Consul
 Enterprise license.

Consul License

Command: `consul license`

<EnterpriseAlert />

The `license` command provides a datacenter-level view of the Consul Enterprise license. This was added in Consul 1.1.0 but Consul 1.10.0 removed the ability to set and reset the license using the CLI. See the [licensing documentation](/docs/enterprise/license/overview) for more information about Consul Enterprise license management.

If ACLs are enabled then a token with operator privileges may be required in order to use this command. Requests are forwarded internally to the leader if required, so this can be run from any Consul node in a cluster. See the [ACL Guide](https://learn.hashicorp.com/consul/security-networking/production-acls) for more information.

```text
Usage: consul license <subcommand> [options] [args]

 This command has subcommands for managing
 the Consul Enterprise license
 Here are some simple examples, and more detailed examples are
 available in the subcommands or the documentation.

 Install a new license from a file:

    $ consul license put @consul.license

 Install a new license from stdin:

    $ consul license put -

 Install a new license from a string:

    $ consul license put "<license blob>"

 Retrieve the current license:
```

$ consul license get

Inspect a license:

$ consul license inspect "<path to license file>"

Reset the current license:

$ consul license reset

For more examples, ask for subcommand help or view the documentation.

Subcommands:
  get Get the active license
  inspect Inspect a signed license
  put Puts a new license in the datacenter
  reset Resets the license in the datacenter

```

## inspect

This command inspects and validates a license. Just like a Consul agent it
can load the license from a file on disk or
from the `CONSUL_LICENSE` and
`CONSUL_LICENSE_PATH` environment variables.

Usage: `consul license inspect [<options>] [<license file>]`

Inspect a license contained in a file:

```
$ consul license inspect consul.hclic
```

Inspect a license loaded from the environment:

```
$ consul license inspect
```

This will look at the CONSUL_LICENSE environment variable first
and if not present then we will look for the file specified
by the CONSUL_LICENSE_PATH environment variable.

The output looks like this:

```

Source: /consul/config/consul.hclic (path from the CONSUL_LICENSE_PATH environment variable)
Product: consul
License ID: 6089174b-a713-74cf-4c8d-856b86f1ce50
Customer ID: 7c020610-60a2-7ccb-c210-20d899e5f3b4
Installation ID: *
Issue Time: 2020-09-14 19:45:56.212195875 +0000 UTC
Start Time: 2020-09-14 00:00:00 +0000 UTC
Expiration Time: 2021-09-14 23:59:59.999 +0000 UTC
Termination Time: 2021-09-14 23:59:59.999 +0000 UTC
Modules:
    Global Visibility, Routing and Scale

  Governance and Policy
Features:
    Automated Backups
    Automated Upgrades
    Enhanced Read Scalability
    Network Segments
    Redundancy Zone
    Advanced Network Federation
    Namespaces
    SSO
    Audit Logging
    Admin Partitions

License is valid

```
put

-> **Deprecated** The ability to manage the cluster's license via the CLI
was removed in Consul 1.10. While the CLI command still exists it will
always return an error. This command will be fully removed in a future release.

This command sets the Consul Enterprise license.

Usage: `consul license put [options] LICENSE`

API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

The output looks like this:

```text
License is valid

License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
    Automated
 Backups
    Automated Upgrades
    Enhanced Read Scalability
    Network Segments
    Redundancy Zone
    Advanced Network Federation
```

get

This command gets the Consul Enterprise license.

Usage: `consul license get [options]`

API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
    Automated Backups
    Automated Upgrades
    Enhanced Read Scalability
    Network Segments
    Redundancy Zone
    Advanced Network Federation
```

reset

-> **Deprecated** The ability to manage the cluster's license via the CLI
```

was removed in Consul 1.10. While the CLI command still exists it will
always return an error. This command will be fully removed in
 a future release.

Resets license for the datacenter to the one builtin in Consul binary, if it is still valid.
If the builtin license is invalid, the current one stays active.

Usage: `consul license reset [options]`

API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
	Automated Backups
	Automated Upgrades
	Enhanced Read Scalability
	Network Segments
	Redundancy Zone
	Advanced Network Federation
```

```
.consul-intention-permission-list {
 .detail > div {
   display: flex;
   width: 100%;
 }
 strong {
   margin-right: 8px;
 }
}
.consul-intention-permission-header-list {
 dt::before {
   @extend %with-glyph-icon;
   content: 'H';
 }
}
```

```
<Notice
 class="topology-metrics-notice"
 ...attributes
 @type={{@type}}
as |notice|>
   <notice.Header>
   <h3>
     {{t (concat "components.consul.topology-metrics.notice." @for ".header")}}
   </h3>
 </notice.Header>
 <notice.Body>
   <p>
    {{t (concat "components.consul.topology-metrics.notice." @for ".body")}}
   </p>
 </notice.Body>
{{#if @action}}
 <notice.Footer>
   <p>
     {{#if @internal}}
       <Action @href={{href-to (t (concat "components.consul.topology-metrics.notice." @for ".footer.URL"))}}>
         {{t (concat "components.consul.topology-metrics.notice." @for ".footer.name")}}
       </Action>
     {{else}}
       <Action @href={{@link}} @external={{true}}>
         {{t (concat "components.consul.topology-metrics.notice." @for ".footer")}}
       </Action>
     {{/if}}
   </p>
 </notice.Footer>
{{/if}}
</Notice>
```

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---
layout: docs
page_title: Consul Enterprise License FAQ
description: Frequently Asked Questions pertaining to Consul Enterprise Licensing.

Frequently Asked Questions (FAQ)

This FAQ is for the license changes introduced in Consul Enterprise version 1.10.0.
Consul Enterprise automatically loads Consul licenses when the server agent starts.

Q: Can I get a quick summary of the Consul changes?

Starting with Consul Enterprise 1.10.0, the license enablement process is different.

HashiCorp Enterprise servers will no longer start without a license. Servers require licenses to be provided from either an environment variable or file.
If the license is missing, invalid, or expired, the server will immediately exit.
This check is part of the server boot-up process.

In previous versions of HashiCorp enterprise products, one server could distribute a license to other servers via the Raft protocol.
This will no longer work since each server must be able to find a valid license during

the startup process.

Q: What are the upgrade requirements?

All customers on Consul Enterprise 1.8/1.9 must first upgrade their client and server agents to the latest patch release.
During the upgrade the license file must also be configured on client agents in an environment variable or file path, otherwise the Consul agents will fail to retrieve the license with a valid agent token.
The upgrade process varies if ACLs are enabled or disabled in the cluster.
Refer to the instructions on [upgrading to 1.10.x](/docs/upgrading/instructions/upgrade-to-1-10-x) for details.

Q: Is there a tutorial available for the license configuration steps?

Please visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise).

Q: What resources are available?

The list below is a great starting point for learning more about the license changes introduced in Consul Enterprise 1.10.0+ent.

- [Consul Enterprise Upgrade Documentation](https://www.consul.io/docs/enterprise/upgrades)

- [Consul License Documentation](/docs/enterprise/license)

- [License configuration values documentation](/docs/enterprise/license/overview#binaries-without-built-in-licenses)

- [Install a HashiCorp Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise)

Q: Do these changes impact all customers/licenses?

The license changes introduced in 1.10.0 only affect Consul Enterprise.
This impacts customers that have an enterprise binary (evaluation or non-evaluation licenses) downloaded from https://releases.hashicorp.com.
The license changes do not impact customers with the baked-in licensed binaries. In a later release of Consul Enterprise, baked-in binaries will be deprecated.

Q: What is the product behavior change introduced by the licensing changes?

Starting with Consul Enterprise 1.10.0, a valid license is required on-disk (auto-loading) or as an environment variable for Consul Enterprise to successfully boot-up.
The in-storage license feature will not be supported starting with Consul Enterprise 1.10.0+ent. All Consul Enterprise clusters using 1.10.0+ent must ensure that there is a valid license on-disk (auto-loaded) or as an environment variable.

Q: What is the impact on evaluation licenses due to this change?

The 6-hour trial period for evaluation licenses will be deprecated as of Consul Enterprise 1.10.0.
This means that any clusters deployed with Consul 1.10.0+ent binaries will need to have a valid license on the disk (auto-loaded) or as an environment variable.
Failure to provide a valid license key will result in the Consul server agent not starting.

Q: Is there a grace period when licenses expire?

A license includes an `expiration_date` and a `termination_date`. An enterprise binary will cease to function once the `termination_date` has passed.
Licenses will now have a 24 hrs grace period. The grace period is the time
between license expiry until the time it terminates.
As Consul Enterprise approaches the expiration date, warnings will be issued in the system logs.

Q: Does this affect client agents?

There are upgrade requirements that affect Consul Enterprise clients.
Please review the [upgrade requirements](faq#q-what-are-the-upgrade-requirements) documentation.

Q: Does this affect snapshot agents?

Same behavior as Consul clients. See answer for [Does this affect client agents?](faq#q-does-this-affect-client-agents)

Q: What is the behavior if the license is missing?

Consul server agents will detect the absence of the license and immediately exit.

Consul client agents will attempt to retrieve the license from servers if certain conditions are met:

- ACLs are enabled.
- An ACL token is provided to the client agent.
- The client agents configuration contains `start_join/retry_join` addresses.
- The start/retry join addresses are addresses of the Consul servers.

Consul snapshot agents
will attempt to retrieve the license from servers if certain conditions are met: ACLs are enabled, a ACL token is provided to the client agent, the client agents configuration contains `start_join/retry_join` addresses, the start/retry join addresses are addresses of the Consul servers.

Q: Where can users get a trial license for Consul Enterprise?

Visit https://www.consul.io/trial for a free 30-day trial license.

Q: Are the license files locked to a specific cluster?

The license files are not locked to a specific cluster or cluster node. The above changes apply to all nodes in a

cluster.

Q: Will this impact HCP Consul?

This will not impact HCP Consul.

Q: Does this need to happen every time a node restarts, or is this a one-time check?

Consul Enterprise binaries starting with 1.10.0+ent, will be subject to EULA check. Release 1.10.0+ent introduces the EULA check for evaluation licenses (non-evaluation licenses already go through EULA check during contractual agreement).

The
 agreement to a EULA happens only once (when the user gets their license), Consul Enterprise **will check for the presence of a valid license every time a node restarts**.

When a customer upgrades existing clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be auto-loaded.

When a customer deploys new clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be on-disk (auto-loaded).

Q: What are the scenarios that a customer must plan for because of these changes?

New Consul cluster deployments using 1.10.0+ent will need to have a valid license on servers to successfully deploy.
This valid license must be on-disk (auto-loaded) or as an environment variable.
Please see the [upgrade requirements](faq#q-what-are-the-upgrade-requirements).

Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI
 flow to the license on disk flow?

VM

1. Run [`consul license get -signed`](/commands/license#get) to extract the license from their running cluster. Store the license in a secure location on disk.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have access to the required license. This could be via the client agent configuration file or an environment variable.
1. Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.
1. Follow the Consul upgrade [documentation](/docs/upgrading).

Kubernetes

NOTE: If you are not upgrading Consul or your Helm chart version then no action is required.

1. In order to use Consul Enterprise 1.10.0 or greater on Kubernetes you must use version 0.32.0 or greater of the

Helm chart.
1. You should already have a Consul Enterprise license set as a Kubernetes secret. If you do not, then if you are an existing HashiCorp enterprise customer you may contact your organization's customer success manager (CSM) or email support-softwaredelivery@hashicorp.com for information on how to get your organization's enterprise license. Once you have the license then create a Kubernetes secret containing the license as described in [Kubernetes - Consul Enterprise](/docs/k8s/installation/deployment-configurations/consul-enterprise).
1. Follow the [Kubernetes Upgrade Docs](/docs/k8s/upgrade) to upgrade. No changes to your `values.yaml` file are needed to enable enterprise autoloading since this support is built in to consul-helm 0.32.0 and greater.

~> **WARNING:** If you are upgrading the Helm chart but **not** upgrading the Consul version, you must set `server.enterpriseLicense.enableLicenseAutoload: false`. See [Kubernetes - Consul Enterprise](/docs/k8s/installation/deployment-configurations/consul-enterprise) for more details.

Q: What is the migration path for customers who want to migrate from their existing perpetually-licensed binaries to the license on disk flow?

VM

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's customer success manager (CSM) or email support-softwaredelivery@hashicorp.com for information on how to get your organization's enterprise license.
1. Store the license in a secure location on disk.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.
  Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.
1. Follow the Consul upgrade [documentation](/docs/upgrading).

Kubernetes

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's customer success manager (CSM) or email support-softwaredelivery@hashicorp.com for information on how to get your organization's enterprise license.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.
  Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.
1. Proceed with the `helm` [upgrade instructions](/docs/k8s/upgrade)

Q: Will Consul downgrades/rollbacks work?

When downgrading to a version of Consul before 1.10.0+ent, customers will need to follow the previous process for applying an enterprise licenses to Consul Enterprise.

Q: Are there potential pitfalls when downgrading or upgrading Consul server instances?

~> Verify that you meet the [upgrade requirements](faq#q-what-are-the-upgrade-requirements).

Assume
 a scenario where there are three Consul server nodes:

- Node A: v1.9.5
- Node B: v1.10.0 [Leader]
- Node C: v1.9.5

The command `consul license put` is issued from Node A. This will result in an error due to how Consul routes calls to the server node, Node B in this example.
Because Node A is a follower when the call `consul license put` is issued, the call will be redirected to Node B (leader).
The `consul license put` operation will fail due to being removed from 1.10.0.
This is a scenario that could occur if a customer downgrades from 1.10.0+ and the Consul leadership has not transferred back over to a node not running 1.10.0+.
This also has the potential of occurring when upgrading if scheduled license updates or autoscaling groups recoveries are in place.

Q: Any impacts to Consul Kubernetes?

If you are using a Consul Enterprise version prior to 1.10.0 and decide to upgrade the Helm chart to version 0.32.0 or newer,
 but not the Consul version.
You will need to add the following configuration.

```
server:
 enterpriseLicense:
   enableLicenseAutoload: false
```
.consul-intention-permission-list {
 dt::before {
   @extend %with-glyph-icon;
 }
 dl.permission-methods dt::before {
   content: 'M';
 }
 dl.permission-path dt::before {
   content: 'P';
 }
 dl.permission-header dt::before {
   content: 'H';
 }
}
{{#if (gt items.length 0)}}
<ListCollection
 class="consul-intention-permission-header-list"
 @items={{items}}
 @scroll="native"

```
 @cellHeight={{42}}
as |item|>
 <BlockSlot @name="details">
   <dl>
     <dt>
       <Tooltip>
         Header
       </Tooltip>
     </dt>
     <dd>
       {{item.Name}} {{route-match item}}
     </dd>
   </dl>
 </BlockSlot>
 <BlockSlot @name="actions" as |Actions|>
   <Actions as |Action|>
     <Action data-test-delete-action @onclick={{action ondelete item}} class="dangerous">
       <BlockSlot @name="label">
         Delete
       </BlockSlot>
       <BlockSlot @name="confirmation" as |Confirmation|>
         <Confirmation class="warning">
           <BlockSlot @name="header">
             Confirm delete
           </BlockSlot>
           <BlockSlot @name="body">
             <p>
               Are you sure you want to delete this header?
             </p>
           </BlockSlot>
           <BlockSlot @name="confirm" as |Confirm|>
             <Confirm>Delete</Confirm>
           </BlockSlot>
         </Confirmation>
       </BlockSlot>
     </Action>
   </Actions>
 </BlockSlot>
</ListCollection>
{{/if}}
Mozilla Public License 2.0 (MPLv2.0)
package api

import (
 "io/ioutil"
 "strings"
 "time"
)
```

```
type License struct {
 // The unique identifier of the license
 LicenseID string `json:"license_id"`

 // The customer ID associated with the license
 CustomerID string `json:"customer_id"`

 // If set, an identifier that should be used to lock the license to a
 // particular site, cluster, etc.
 InstallationID string `json:"installation_id"`

 // The time at which the license was issued
 IssueTime time.Time `json:"issue_time"`

 // The time at which the license starts being valid
 StartTime time.Time `json:"start_time"`

 // The time after which the license expires
 ExpirationTime time.Time `json:"expiration_time"`

 // The time at which the license ceases to function and can
 // no longer be used in any capacity
 TerminationTime time.Time `json:"termination_time"`

 // The product the license is valid for
 Product string `json:"product"`

 // License Specific Flags
 Flags map[string]interface{} `json:"flags"`

 // Modules is a list
 of the licensed enterprise modules
 Modules []string `json:"modules"`

 // List of features enabled by the license
 Features []string `json:"features"`
}

type LicenseReply struct {
 Valid    bool
 License  *License
 Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
 var reply LicenseReply
 if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
```

```
 return nil, err
 } else {
  return &reply, nil
 }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
 r := op.c.newRequest("GET", "/v1/operator/license")
 r.params.Set("signed", "1")
 r.setQueryOptions(q)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return "", err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return "", err
 }

 data, err := ioutil.ReadAll(resp.Body)
 if err != nil {
  return "", err
 }

 return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If
 the builtin license is invalid, the current license stays active.
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r := op.c.newRequest("DELETE", "/v1/operator/license")
 r.setWriteOptions(opts)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return nil, err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return nil, err
 }
 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
 }
```

```
 return &reply, nil
}

// LicensePut will configure the Consul Enterprise license for the target datacenter
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r
 := op.c.newRequest("PUT", "/v1/operator/license")
 r.setWriteOptions(opts)
 r.body = strings.NewReader(license)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return nil, err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return nil, err
 }

 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
 }

 return &reply, nil
}
{{#if (gt items.length 0)}}
<ListCollection
 class="consul-intention-permission-list{{if (not onclick) ' readonly'}}"
 @scroll="native"
 @items={{items}}
 @partial={{5}}
as |item|>
 <BlockSlot @name="details">
   <div onclick={{action (optional onclick) item}}>
     <strong class={{concat 'intent-' item.Action}}>{{capitalize item.Action}}</strong>
{{#if (gt item.HTTP.Methods.length 0)}}
       <dl class="permission-methods">
         <dt>
           <Tooltip>
             Methods
           </Tooltip>
         </dt>
         <dd>
{{#each item.HTTP.Methods as |item|}}
           {{item}}
```

```
{{/each}}
        </dd>
      </dl>
{{/if}}
{{#if item.HTTP.Path}}
      <dl class="permission-path">
        <dt>
          <Tooltip>
            {{item.HTTP.PathType}}
          </Tooltip>
        </dt>
        <dd>
          {{item.HTTP.Path}}
        </dd>
      </dl>
{{/if}}
{{#each item.HTTP.Header as |item|}}
      <dl class="permission-header">
        <dt>
           <Tooltip>
            Header
          </Tooltip>
        </dt>
        <dd>
          {{item.Name}} {{route-match item}}
        </dd>
      </dl>
{{/each}}
  </div>
 </BlockSlot>
{{#if onclick}}
 <BlockSlot @name="actions" as |Actions|>
   <Actions as |Action|>
     <Action data-test-edit-action @onclick={{action (optional onclick) item}} @close={{true}}>
       <BlockSlot @name="label">
         Edit
       </BlockSlot>
     </Action>
     <Action data-test-delete-action @onclick={{action ondelete item}} class="dangerous">
       <BlockSlot @name="label">
         Delete
       </BlockSlot>
       <BlockSlot @name="confirmation" as |Confirmation|>
         <Confirmation class="warning">
           <BlockSlot @name="header">
             Confirm delete
           </BlockSlot>
           <BlockSlot @name="body">
```

```
            <p>
              Are you sure you want to delete this permission?
            </p>
          </BlockSlot>
           <BlockSlot @name="confirm" as |Confirm|>
            <Confirm>Delete</Confirm>
          </BlockSlot>
        </Confirmation>
      </BlockSlot>
    </Action>
  </Actions>
 </BlockSlot>
{{/if}}
</ListCollection>
{{/if}}
%notice {
 position: relative;
 padding: 0.8rem;
}
%notice header {
 margin-bottom: 0.1rem;
}
%notice header > * {
 margin-bottom: 0;
}
%notice p {
 margin-bottom: 0.3rem;
 line-height: 1.4;
}
/* this is probably skin */
%notice {
 padding-left: calc(0.8rem + 1.4rem);
}
%notice::before {
 position: absolute;
 top: 0.8rem;
 left: 0.6rem;
 font-size: 1rem;
}
# Notice

Presentational component for informational/warning/error banners/notices.


```hbs preview-template
<Notice
 @type={{this.type}}
as |notice|>
```
```

```
 <notice.Header>
   <h3>Header</h3>
 </notice.Header>
 <notice.Body>
   <p>
     Body
   </p>
 </notice.Body>
 <notice.Footer>
   <p>
     <a href="">Footer link</a>
   </p>
 </notice.Footer>
</Notice>

<figure>
 <figcaption>Provide a widget to change the <code>@type</code></figcaption>

 <select
   onchange={{action (mut this.type) value="target.value"}}
 >
   <option>info</option>
   <option>success</option>
   <option>warning</option>
   <option>error</option>
 </select>

</figure>
```

Arguments

Argument/Attribute	Type	Default	Description
`type`	`String`	`info`	Type of notice [info|warning|error]

See

- [Template Source Code](./index.hbs)

@import './skin';
@import './layout';
Copyright 2014-2018 HashiCorp, Inc.

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this project, you can obtain one at http://mozilla.org/MPL/2.0/.

```
<Notice
 class="consul-intention-notice-custom-resource crd"
 ...attributes
 @type={{or @type "info"}}
as |notice|>
 <notice.Header>
   <h3>
     Intention Custom Resource
   </h3>
 </notice.Header>
 <notice.Body>
   <p>
     Some of your intentions are being managed through an Intention Custom Resource in your Kubernetes cluster. Those managed intentions will be view only in the UI. Any intentions created in the UI will work but will not be synced to the Custom Resource Definition (CRD) datastore.
   </p>
 </notice.Body>
 <notice.Footer>
   <p>
     <a href="{{env 'CONSUL_DOCS_URL'}}/k8s/crds" target="_blank" rel="noopener noreferrer">Learn more about CRDs</a>
   </p>
 </notice.Footer>
</Notice>
@import './skin';
@import './layout';

%notice {
 margin: 1em 0;
}
/**/
.notice.success {
 @extend %notice-success;
}
.notice.warning {
 @extend %notice-warning;
}
.notice.error {
 @extend %notice-error;
}
.notice.info {
 @extend %notice-info;
}
.notice.highlight {
 @extend %notice-highlight;
}
.notice.policy-management {
 @extend %notice-highlight;
```

```
}
.notice.crd::before {
 -webkit-mask-image: none;
 mask-image: none;
 background-color: transparent;
 @extend %with-logo-kubernetes-color-icon;
}
%notice {
 border-radius: var(--decor-radius-100);
 border: var(--decor-border-100);
 color: rgb(var(--tone-gray-999));
}
%notice::before {
 @extend %as-pseudo;
}
%notice header > * {
 @extend %h300;
}
%notice footer * {
 @extend %p3;
 font-weight: var(--typo-weight-bold);
}
%notice-success,
%notice-info,
%notice-highlight,
%notice-error,
%notice-warning {
 @extend %notice;
}
%notice-success {
 background-color: rgb(var(--tone-green-050));
 border-color: rgb(var(--tone-green-500));
}
%notice-success header * {
 color: rgb(var(--tone-green-800));
}
%notice-info {
 border-color: rgb(var(--tone-blue-100));
 background-color: rgb(var(--tone-blue-010));
}
%notice-info header * {
 color: rgb(var(--tone-blue-700));
}
%notice-highlight {
 background-color: rgb(var(--tone-gray-050));
 border-color: rgb(var(--tone-gray-300));
}
%notice-info header * {
```

```
 color: rgb(var(--tone-blue-700));
}
%notice-warning {
 border-color: rgb(var(--tone-yellow-100));
 background-color: rgb(var(--tone-yellow-050));
}
%notice-warning
 header * {
 color: rgb(var(--tone-yellow-800));
}
%notice-error {
 background-color: rgb(var(--tone-red-050));
 border-color: rgb(var(--tone-red-500));
}
%notice-error header * {
 color: rgb(var(--tone-red-500));
}
%notice-success::before {
 @extend %with-check-circle-fill-mask;
 color: rgb(var(--tone-green-500));
}
%notice-info::before {
 @extend %with-info-circle-fill-mask;
 color: rgb(var(--tone-blue-500));
}
%notice-highlight::before {
 @extend %with-star-fill-mask;
 color: rgb(var(--tone-yellow-500));
}
%notice-warning::before {
 @extend %with-alert-triangle-mask;
 color: rgb(var(--tone-orange-500));
}
%notice-error::before {
 @extend %with-cancel-square-fill-mask;
 color: rgb(var(--tone-red-500));
}
```

1.2867 consul-api 1.18.0

1.2867.1 Available under license :

```
---
layout: api
page_title: License - Operator - HTTP API
description: |-
 The /operator/license endpoint allows for retrieving the Consul
 Enterprise License.
```

License - Operator HTTP API

<EnterpriseAlert />

The licensing functionality described here is available only in
[Consul Enterprise](https://www.hashicorp.com/products/consul/) version 1.1.0 and later.

Getting the Consul License

This endpoint gets information about the current license.

Method	Path	Produces
`GET`	`/operator/license`	`application/json`

The table below shows this endpoint's support for
[blocking queries](/consul/api-docs/features/blocking),
[consistency modes](/consul/api-docs/features/consistency),
[agent caching](/consul/api-docs/features/caching), and
[required ACLs](/consul/api-docs/api-structure#authentication).

| Blocking Queries | Consistency Modes | Agent Caching | ACL Required |
| ---
| ---
| ---
| ---
| `NO` | `all` | `none` | `none` |

The corresponding CLI command is [`consul license get`](/consul/commands/license#get).

Query Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be retrieved.
 This will default to the datacenter of the agent serving the HTTP request.

Sample Request

```shell-session
$ curl \
  http://127.0.0.1:8500/v1/operator/license
```

Sample Response

```json
{
 "Valid": true,
 "License": {
```

"license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
"customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
"installation_id": "*",
"issue_time": "2018-05-21T20:03:35.911567355Z",
"start_time": "2018-05-21T04:00:00Z",
"expiration_time": "2019-05-22T03:59:59.999Z",
"product": "consul",
"flags": {
"package": "premium"
},
"features": [
"Automated Backups",
"Automated Upgrades",

"Enhanced Read Scalability",
"Network Segments",
"Redundancy Zone",
"Advanced Network Federation"
],
"temporary": false
},
"Warnings": []
}
```

## Updating the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with the ability to manage the cluster's license via the API.

This endpoint updates the Consul license and returns some of the license contents as well as any warning messages regarding its validity.

| Method | Path | Produces |
| --- | --- | --- |
| `PUT` | `/operator/license` | `application/json` |

The table below shows this endpoint's support for [blocking queries](/consul/api-docs/features/blocking), [consistency modes](/consul/api-docs/features/consistency), [agent caching](/consul/api-docs/features/caching), and [required ACLs](/consul/api-docs/api-structure#authentication).

| Blocking Queries | Consistency Modes | Agent Caching | ACL Required |
| --- | --- | --- | --- |
| `NO` | `none` | `none` | `operator:write` |
```

The corresponding CLI command is [`consul license put`](/consul/commands/license#put).

Query Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be updated.
 This will default to the datacenter of the agent serving the HTTP request.

Sample Payload

The payload is the raw license blob.

Sample Request

```shell-session
$ curl \
  --request PUT \
  --data @consul.license \
  http://127.0.0.1:8500/v1/operator/license
```

Sample Response

```json
{
 "Valid": true,
 "License": {
  "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
  "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
  "installation_id": "*",
  "issue_time": "2018-05-21T20:03:35.911567355Z",
  "start_time": "2018-05-21T04:00:00Z",
  "expiration_time": "2019-05-22T03:59:59.999Z",
  "product":
 "consul",
  "flags": {
   "package": "premium"
  },
  "features": [
   "Automated Backups",
   "Automated Upgrades",
   "Enhanced Read Scalability",
   "Network Segments",
   "Redundancy Zone",
   "Advanced Network Federation"
  ],
  "temporary": false
 },
 "Warnings": []
```

}
```

## Resetting the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with
the ability to manage the cluster's license via the API.

This endpoint resets the Consul license to the license included in the Enterprise binary. If the included license is not valid, the replace will fail.

| Method | Path | Produces |
| --- | --- | --- |
| `DELETE` | `/operator/license` | `application/json` |

The table below shows this endpoint's support for
[blocking queries](/consul/api-docs/features/blocking),
[consistency modes](/consul/api-docs/features/consistency),
[agent caching](/consul/api-docs/features/caching),
 and
[required ACLs](/consul/api-docs/api-structure#authentication).

| Blocking Queries | Consistency Modes | Agent Caching | ACL Required |
| --- | --- | --- | --- |
| `NO` | `none` | `none` | `operator:write` |

The corresponding CLI command is [`consul license reset`](/consul/commands/license#reset).

### Query Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be updated.
 This will default to the datacenter of the agent serving the HTTP request.

### Sample Request

```shell-session
$ curl \
   --request DELETE \
   http://127.0.0.1:8500/v1/operator/license
```

Sample Response

```json
{
 "Valid": true,
 "License": {
   "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",

"customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
"installation_id": "*",
"issue_time": "2018-05-21T20:03:35.911567355Z",
"start_time": "2018-05-21T04:00:00Z",
"expiration_time": "2019-05-22T03:59:59.999Z",
"product": "consul",
"flags": {
"package": "premium"
},
"features": [
"Automated Backups",
"Automated Upgrades",
"Enhanced Read Scalability",
"Network Segments",
"Redundancy Zone",
"Advanced Network Federation"
],
"temporary": false
},
"Warnings": []
}
```
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

@import './skin';
@import './layout';
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

.consul-intention-permission-form {
 h2 {
  padding-top: 1.4em;
  margin-top: 0.2em;
  margin-bottom: 0.6em;
 }
 .consul-intention-permission-header-form {
  margin-top: 10px;
 }
 fieldset:nth-child(2) > div,
 .consul-intention-permission-header-form fieldset > div {
  display: grid;
  grid-template-columns: repeat(auto-fit, minmax(160px, 1fr));
  grid-gap: 12px;
```

```
 }
 fieldset:nth-child(2) > div label:last-child {
   grid-column: span 2;
 }
 .ember-basic-dropdown-trigger {
   padding: 5px;
 }
 .checkbox-group {
   flex-direction: column;
 }
}
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

@import './skin';
@import './layout';
.consul-intention-permission-list > ul > li {
 @extend %list-row-200;
}
.consul-intention-permission-list:not(.readonly) > ul > li {
 @extend %with-composite-row-intent;
}
.consul-intention-permission-list strong {
 @extend %pill-500;
}
.consul-intention-permission-list .intent-allow {
 @extend %pill-allow;
}
.consul-intention-permission-list .intent-deny {
 @extend %pill-deny;
}
```

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OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

.consul-intention-permission-header-list {
 max-height: 200px;
 overflow: auto;
}
{{!
 Copyright (c) HashiCorp, Inc.
 SPDX-License-Identifier: BUSL-1.1
}}

{{#if (gt items.length 0)}}
<ListCollection
 class="consul-intention-permission-header-list"
 @items={{items}}
 @scroll="native"

```
 @cellHeight={{42}}
as |item|>
 <BlockSlot @name="details">
   <dl>
     <dt>
       <Tooltip>
         Header
       </Tooltip>
     </dt>
     <dd>
       {{item.Name}} {{route-match item}}
     </dd>
   </dl>
 </BlockSlot>
 <BlockSlot @name="actions" as |Actions|>
   <Actions as |Action|>
     <Action data-test-delete-action @onclick={{action ondelete item}} class="dangerous">
       <BlockSlot @name="label">
         Delete
       </BlockSlot>
       <BlockSlot @name="confirmation" as |Confirmation|>
         <Confirmation class="warning">
           <BlockSlot @name="header">
             Confirm delete
           </BlockSlot>
           <BlockSlot @name="body">
             <p>
               Are you sure you want to delete this header?

  </p>
           </BlockSlot>
           <BlockSlot @name="confirm" as |Confirm|>
             <Confirm>Delete</Confirm>
           </BlockSlot>
         </Confirmation>
       </BlockSlot>
     </Action>
   </Actions>
 </BlockSlot>
</ListCollection>
{{/if}}
{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
   "rules": {
     "policies": {
       "consul-intentions-layer7-0": {
```

```
"permissions": [
  {
    "andRules": {
      "rules": [
        {
          "urlPath": {
            "path": {
              "exact": "/v1/secret"
            }
          }
        },
        {
          "andRules": {
            "rules": [
              {
                "metadata": {
                  "filter": "envoy.filters.http.jwt_authn",
                  "path": [
                    {
                      "key": "jwt_payload_auth0"
                    },
                    {
                      "key": "iss"
                    }
                  ],
                  "value": {
                    "stringMatch": {
                      "exact": "mytest.auth0-issuer"
                    }
                  }
                }
              },
              {
                "metadata": {
                  "filter": "envoy.filters.http.jwt_authn",
                  "path": [
                    {
                      "key": "jwt_payload_auth0"
                    },
                    {
                      "key": "perms"
                    },
                    {
                      "key": "role"
                    }
                  ],
                  "value": {
                    "stringMatch": {
```

```
                "exact": "admin"

        }
                }
              }
            }
          ]
        }
      }
    ]
  }
},
{
  "andRules": {
    "rules": [
      {
        "urlPath": {
          "path": {
            "exact": "/v1/admin"
          }
        }
      },
      {
        "notRule": {
          "urlPath": {
            "path": {
              "exact": "/v1/secret"
            }
          }
        }
      }
    ]
  }
}
],
"principals": [
  {
    "andIds": {
      "ids": [
        {
          "authenticated": {
            "principalName": {

          "safeRegex": {
                "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
              }
            }
          }
```

```
        },
        {
          "andIds": {
            "ids": [
              {
                "metadata": {
                  "filter": "envoy.filters.http.jwt_authn",
                  "path": [
                    {
                      "key": "jwt_payload_okta"
                    },
                    {
                      "key": "iss"
                    }
                  ],
                  "value": {
                    "stringMatch": {
                      "exact": "mytest.okta-issuer"
                    }
                  }
                }
              },

              {
                "metadata": {
                  "filter": "envoy.filters.http.jwt_authn",
                  "path": [
                    {
                      "key": "jwt_payload_okta"
                    },
                    {
                      "key": "roles"
                    }
                  ],
                  "value": {
                    "stringMatch": {
                      "exact": "testing"
                    }
                  }
                }
              }
            ]
          }
        }
      ]
    }
  }
]
```

```
      }
    }
  }
 }
}
```
---
layout: docs
page_title: Consul-Terraform-Sync Enterprise License
description: >-
 Consul-Terraform-Sync Enterprise License

Consul-Terraform-Sync Enterprise License

<EnterpriseAlert>
 Licenses are only required for Consul-Terraform-Sync (CTS) Enterprise
</EnterpriseAlert>

CTS Enterprise binaries require a [Consul Enterprise license](/consul/docs/enterprise/license/overview) to run. There is no CTS Enterprise specific license. As a result, CTS Enterprise's licensing is very similar to Consul Enterprise.

All CTS Enterprise features are available with a valid Consul Enterprise license, regardless of your Consul Enterprise packaging or pricing model.

To get a trial license for CTS, you can sign-up for the [trial license for Consul Enterprise](/consul/docs/enterprise/license/faq#q-where-can-users-get-a-trial-license-for-consul-enterprise).

Automatic License Retrieval
CTS automatically retrieves a license from Consul on startup and then attempts to retrieve a new license once a day. If the current license is reaching its expiration date, CTS attempts to retrieve a license with increased frequency, as defined by the [License Expiration Date Handling](/consul/docs/nia/enterprise/license#license-expiration-handling).

~> Enabling automatic license retrieval is recommended when using HCP Consul, as HCP Consul licenses expire more frequently than Consul Enterprise licenses. Without auto-retrieval enabled, you have to restart CTS every time you load a new license.

Setting the License Manually

If a license needs to be manually set, choose one of the following methods (in order of precedence) to set the license:

1. Set the `CONSUL_LICENSE` environment variable to the license string.

  ```shell-session
  export CONSUL_LICENSE=<LICENSE_VALUE>
  ```

1. Set the `CONSUL_LICENSE_PATH` environment variable to the path of the file containing the license.

```shell-session
export CONSUL_LICENSE_PATH=<PATH>/<TO>/<FILE>
```

1. To point to the file containing
 the license, in the configuration file, configure the [`license`](/consul/docs/nia/configuration#license) path option.

```hcl
license {
  path = "<PATH>/<TO>/<FILE>"
}
```

1. To point to the file containing the license, in the configuration file, configure the [`license_path`](/consul/docs/nia/configuration#license_path) option i. **Deprecated in CTS 0.6.0 and will be removed in a future release. Use [license block](/consul/docs/nia/configuration#license) instead.**

```hcl
license_path = "<PATH>/<TO>/<FILE>"
```

~> **Note**: the [options to set the license and the order of precedence](/consul/docs/enterprise/license/overview#binaries-without-built-in-licenses) are the same as Consul Enterprise server agents.
Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license key.

Updating the License Manually
To update the license when it expires or is
 near the expiration date and automatic license retrieval is disabled:

1. Update the license environment variable or configuration with the new license value or path to the new license file
1. Stop and restart CTS Enterprise

Once CTS Enterprise starts again, it will pick up the new license and run the tasks with any changes that may have occurred between the stop and restart period.

License Expiration Handling

Licenses have an expiration date and a termination date. The termination date is a time at or after the license expires. CTS Enterprise will cease to function once the termination date has passed.

The time between the expiration and termination dates is a grace period. Grace periods are generally 24-hours, but you should refer to your license agreement for complete terms of your grace period.

When approaching expiration and termination, by default, CTS Enterprise will attempt to retrieve a new license. If auto-retrieval is disabled, CTS Enterprise will provide notifications
 in the system logs:

Time period	Behavior - auto-retrieval enabled (default)	Behavior - auto-retrieval disabled
30 days before expiration	License retrieval attempt every 24-hours	Warning-level log every 24-hours
7 days before expiration	License retrieval attempt every 1 hour	Warning-level log every 1 hour
1 day before expiration	License retrieval attempt every 5 minutes	Warning-level log every 5 minutes
1 hour before expiration	License retrieval attempt every 1 minute	Warning-level log every 1 minute
At or after expiration (before termination)	License retrieval attempt every 1 minute	Error-level log every 1 minute
At or after termination	Error-level log
and exit	Error-level log and exit

~> **Note**: Notification frequency and [grace period](/consul/docs/enterprise/license/faq#q-is-there-a-grace-period-when-licenses-expire) behavior is the same as Consul Enterprise.

```
{{!
 Copyright (c) HashiCorp, Inc.
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}}

<div
 ...attributes
 class="consul-intention-permission-header-form"
>
 <FormGroup
   @name={{name}}
 as |group|>

   {{yield (hash
     submit=(action 'submit' changeset)
     reset=(action 'reset' changeset)

     isDirty=(and changeset.isValid changeset.isDirty)
     changeset=changeset
   )}}

   <fieldset>
     <div>
       <group.Element
         @name="HeaderType"
         @type="select"
       as |el|>
```

```
      <el.Label>Header type</el.Label>
      <PowerSelect
        @options={{headerTypes}}
        @selected={{headerType}}
        @onChange={{action 'change' 'HeaderType' changeset}} as |Type|>
          {{get headerLabels Type}}
      </PowerSelect>
    </group.Element>


    <group.Element
      @name="Name"
      @error={{changeset-get changeset 'error.Name'}}
    as |el|>
      <el.Label>Header name</el.Label>
      <el.Text

       @value={{changeset-get changeset 'Name'}}
        oninput={{action 'change' 'Name' changeset}}
      />
      <State @state={{el.state}} @matches="error">
        <el.Error>
          {{changeset-get changeset 'error.Name.validation'}}
        </el.Error>
      </State>
    </group.Element>

{{#if shouldShowValueField}}
    <group.Element
      @name="Value"
      @error={{changeset-get changeset 'error.Value'}}
    as |el|>
      <el.Label>Header {{lowercase (get headerLabels headerType)}}</el.Label>
      <el.Text
        @value={{changeset-get changeset 'Value'}}
        oninput={{action 'change' 'Value' changeset}}
      />
      <State @state={{el.state}} @matches="error">
        <el.Error>
          {{changeset-get changeset 'error.Value.validation'}}
        </el.Error>
      </State>
    </group.Element>
{{/if}}

   </div>
  </fieldset>
</FormGroup>
```

```
{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
   "rules": {
     "policies": {
       "consul-intentions-layer7-0": {
         "permissions": [
           {
             "andRules": {
               "rules": [
                 {
                   "urlPath": {
                     "path": {
                       "prefix": "/v1"
                     }
                   }
                 },
                 {
                   "notRule": {
                     "urlPath": {
                       "path": {
                         "exact": "/v1/secret"
                       }
                     }
                   }
                 }
               ]
             }
           },
           {
             "andRules": {
               "rules": [
                 {
                   "andRules": {
                     "rules": [
                       {

                   "urlPath": {
                         "path": {
                           "safeRegex": {
                             "regex": "/v[123]"
                           }
                         }
                       }
                     },
                     {
```

```
            "header": {
              "name": ":method",
              "stringMatch": {
                "safeRegex": {
                  "regex": "GET|HEAD|OPTIONS"
                }
              }
            }
          }
        ]
      }
    },
    {
      "notRule": {
        "urlPath": {
          "path": {
            "exact": "/v1/secret"
          }
        }
      }
    },

{
      "notRule": {
        "andRules": {
          "rules": [
            {
              "urlPath": {
                "path": {
                  "exact": "/v1/admin"
                }
              }
            },
            {
              "header": {
                "name": ":method",
                "stringMatch": {
                  "safeRegex": {
                    "regex": "GET"
                  }
                }
              }
            }
          ]
        }
      }
    }
  ]
```

```
          }
        },
        {
          "andRules": {
            "rules": [
              {

"andRules": {
                "rules": [
                  {
                    "header": {
                      "name": "x-foo",
                      "presentMatch": true
                    }
                  },
                  {
                    "header": {
                      "name": "x-bar",
                      "stringMatch": {
                        "exact": "xyz"
                      }
                    }
                  },
                  {
                    "header": {
                      "name": "x-dib",
                      "stringMatch": {
                        "prefix": "gaz"
                      }
                    }
                  },
                  {
                    "header": {
                      "name": "x-gir",
                      "stringMatch": {

            "suffix": "zim"
                      }
                    }
                  },
                  {
                    "header": {
                      "name": "x-zim",
                      "stringMatch": {
                        "safeRegex": {
                          "regex": "gi[rR]"
                        }
                      }
```

```
      }
    },
    {
      "header": {
        "invertMatch": true,
        "name": "z-foo",
        "presentMatch": true
      }
    },
    {
      "header": {
        "invertMatch": true,
        "name": "z-bar",
        "stringMatch": {
          "exact": "xyz"

}
      }
    },
    {
      "header": {
        "invertMatch": true,
        "name": "z-dib",
        "stringMatch": {
          "prefix": "gaz"
        }
      }
    },
    {
      "header": {
        "invertMatch": true,
        "name": "z-gir",
        "stringMatch": {
          "suffix": "zim"
        }
      }
    },
    {
      "header": {
        "invertMatch": true,
        "name": "z-zim",
        "stringMatch": {
          "safeRegex": {

     "regex": "gi[rR]"
          }
        }
      }
```

```
                }
              ]
            }
          },
          {
            "notRule": {
              "urlPath": {
                "path": {
                  "exact": "/v1/secret"
                }
              }
            }
          },
          {
            "notRule": {
              "header": {
                "name": "x-baz",
                "presentMatch": true
              }
            }
          }
        ]
      }
    }
  ],
  "principals": [
    {
      "authenticated": {
        "principalName": {
          "safeRegex": {
            "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
          }
        }
      }
    }
  ]
 }
}
}
{
 "name": "envoy.filters.network.rbac",
 "typedConfig": {
  "@type": "type.googleapis.com/envoy.extensions.filters.network.rbac.v3.RBAC",
  "rules": {},
  "statPrefix": "connect_authz"
 }
```

}
{
"Valid": true,
"License": {
"license_id": "${fake.random.uuid()}",
"customer_id": "${fake.random.uuid()}",
"installation_id": "*",
"issue_time": "2021-01-13T15:25:19.052900132Z",
"start_time": "2021-01-13T00:00:00Z",
"expiration_time": "${env('CONSUL_LICENSE_EXPIRATION', '2022-05-02T23:59:59.999Z')}",
"termination_time": "${env('CONSUL_LICENSE_TERMINATION', '2022-01-13T23:59:59.999Z')}",
"product": "consul",
"flags": {
"modules": [
"global-visibility-routing-scale",
"governance-policy"
]
},
"modules": [
"Global Visibility, Routing and Scale",
"Governance and Policy"
],
"features": [
"Automated Backups",
"Automated Upgrades",
"Enhanced Read Scalability",
"Network Segments",
"Redundancy Zone",
"Advanced Network Federation",
"Namespaces",
"SSO",
"Audit Logging",
"Admin Partitions"
]
},
"Warnings": [
]
}
{
"name": "envoy.filters.http.jwt_authn",
"typedConfig": {
"@type": "type.googleapis.com/envoy.extensions.filters.http.jwt_authn.v3.JwtAuthentication",
"providers": {
"okta": {
"issuer": "test-issuer",
"payloadInMetadata": "jwt_payload_okta",
"remoteJwks": {
"asyncFetch": {

```
          "fastListener": true
        },
        "httpUri": {
          "cluster": "jwks_cluster_okta",
          "timeout": "1s",
          "uri": "https://example-okta.com/.well-known/jwks.json"
        }
      }
    }
  },
  "rules": [
    {
      "match": {
        "prefix": "/"
      },
      "requires": {
        "requiresAny": {
          "requirements": [
            {
              "providerName": "okta"
            },
            {
              "allowMissingOrFailed": {}
            }
          ]
        }
      }
    }
  ]
 }
}
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

@import './skin';
@import './layout';
.consul-intention-permission-header-list {
 > ul > li {
   @extend %list-row-200;
 }
}
# Proprietary License

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```
{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
   "rules": {
     "policies": {
       "consul-intentions-layer7-0": {
         "permissions": [
           {
             "andRules": {
               "rules": [
                 {
                   "andRules": {
                     "rules": [
                       {
                         "urlPath": {
                           "path": {
                             "prefix": "/v1"
                           }
                         }
                       },
                       {
                         "header": {
                           "name": "x-foo",
                           "presentMatch": true
                         }
                       }
                     ]
                   }
                 },
                 {
                   "notRule": {
                     "andRules": {

                     "rules": [
                         {
                           "urlPath": {
                             "path": {
                               "exact": "/v1/secret"
                             }
                           }
                         },
                         {
```

```
                "header": {
                  "name": "x-baz",
                  "presentMatch": true
                }
              },
              {
                "header": {
                  "name": "x-bar",
                  "presentMatch": true
                }
              }
            ]
          }
        }
      },
      {
        "notRule": {
          "andRules": {
            "rules": [
              {

"urlPath": {
                  "path": {
                    "exact": "/v1/admin"
                  }
                }
              },
              {
                "header": {
                  "name": "x-baz",
                  "presentMatch": true
                }
              },
              {
                "header": {
                  "name": "x-bar",
                  "presentMatch": true
                }
              }
            ]
          }
        }
      }
    ]
  }
}
],
"principals": [
```

```
          {
            "authenticated": {
              "principalName": {
                "safeRegex": {
                  "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
                }
              }
            }
          }
        ]
      }
    }
  }
}
}
# License

```hbs preview-template
<figure>
 <figcaption>URI: <code>/:partition/:nspace/:dc/license</code></figcaption>
 <DataSource
   @src={{
     uri '/${partition}/${nspace}/${dc}/license'
     (hash
       partition='partition'
       nspace='ns'
       dc='dc-1'
     )
   }}
   @onchange={{action (mut data) value="data"}}
 />
 <pre><code>{{json-stringify data null 4}}</code></pre>
</figure>
```
---
page_title: Automated license utilization reporting
description: >-
 Learn what data HashiCorp collects to meter Enterprise license utilization. Enable or disable reporting. Review sample payloads and logs.

Automated license utilization reporting

This topic describes how to enable automated license utilization reporting in Consul Enterprise. This feature automatically sends license utilization data to HashiCorp so that you do not have to manually collect and report it. It also enables you to review your license usage with the monitoring solution you already use, such as Splunk and Datadog, as you optimize and manage your deployments.
```

Introduction

You can use automated license utilization report to understand how much additional networking infrastructure you can deploy under your current contract. This feature helps you protect against overutilization and budget for predicted consumption.

Automated reporting shares the minimum data required to validate license utilization as defined in our contracts. This data mostly consists of computed metrics, and it will never contain Personal Identifiable Information (PII) or other sensitive information. Automated reporting shares the data with HashiCorp using a secure unidirectional HTTPS API and makes an auditable record in the product logs each time it submits a report. This process is GDPR-compliant.

Requirements

Automated license utilization reporting does not support _air-gapped installations_, which are systems with no network interfaces.

The following versions of Consul Enterprise support automated license utilization reporting:

- Consul Enterprise v1.16.0 and newer.
- Patch releases of Consul Enterprise v1.15.4 and newer.
- Patch releases of Consul Enterprise v1.14.8 and newer.
- Patch releases of Consul Enterprise v1.13.9 and newer.

Download a supported release from the [Consul Versions](https://releases.hashicorp.com/consul/) page.

Enable automated reporting

Before you enable automated reporting, make sure that outbound network traffic is configured correctly and upgrade your enterprise product to a version that supports it. If your installation is air-gapped or network settings are not in place, automated reporting will not work.

To enable automated reporting, complete the following steps:

1. [Allow outbound HTTPS traffic on port 443](#allow-outbound-https-traffic)
1. [Check product logs](#check-product-logs)

Allow outbound HTTPS traffic on port 443

Make sure that your network allows HTTPS egress on port 443 from `https://reporting.hashicorp.services` by adding the following IP addresses to your allow-list:

- `100.20.70.12`
- `35.166.5.222`
- `23.95.85.111`
- `44.215.244.1`

Check product logs

Automatic license utilization reporting starts sending data within roughly 24 hours. Check the product logs for records that the data sent successfully.

<CodeBlockConfig hideClipboard>

```
[DEBUG] beginning snapshot export
[DEBUG] creating payload
[DEBUG] marshalling
 payload to json
[DEBUG] generating authentication headers
[DEBUG] creating request
[DEBUG] sending request
[DEBUG] performing request: method=POST url=https://census.license.hashicorp.services
[DEBUG] recording audit record
[INFO]  reporting: Report sent: auditRecord={"payload":{"payload_version":"1","license_id":"d2cdd857-4202-5a45-70a6-e4b531050c34","product":"consul","product_version":"1.16.0-dev+ent","export_timestamp":"2023-05-26T20:09:13.753921087Z","snapshots":[{"snapshot_version":1,"snapshot_id":"0001J724F90F4XWQDSAA76ZQWA","process_id":"01H1CTJPC1S8H7Q45MKTJ689ZW","timestamp":"2023-05-26T20:09:13.753513962Z","schema_version":"1.0.0","service":"consul","metrics":{"consul.billable.nodes":{"key":"consul.billable.nodes","kind":"counter","mode":"write","value":2},"consul.billable.service_instances":{"key":"consul.billable.service_instances","kind":"counter","mode":"write","value":2}}}],"metadata":{}}}
[DEBUG] completed recording audit record
[DEBUG] export finished successfully"
```

</CodeBlockConfig>

If
 your installation is air-gapped or your network does not allow the correct egress, the logs show an error.

<CodeBlockConfig hideClipboard>

```
[DEBUG] reporting: beginning snapshot export
[DEBUG] reporting: creating payload
[DEBUG] reporting: marshalling payload to json
[DEBUG] reporting: generating authentication headers
[DEBUG] reporting: creating request
[DEBUG] reporting: sending request
[DEBUG] reporting: performing request: method=POST url=https://census.license.hashicorp.services
[DEBUG] reporting: error status code received: statusCode=403
```

</CodeBlockConfig>

In this case, reconfigure your network to allow egress and check the logs again in roughly 24 hours to confirm that automated reporting works correctly.

Opt out

If your installation is air-gapped or you want to manually collect and report on the same license utilization metrics, you can opt out of automated reporting.

Manually reporting these metrics can be time consuming. Opting
 out of automated reporting does not mean that you also opt out from sending license utilization metrics. Customers who opt out of automated reporting are still required to manually collect and send license utilization metrics to HashiCorp.

If you are considering opting out because you are worried about the data, we strongly recommend that you review the [example payloads](#example-payloads) before opting out. If you have concerns with any of the automatically reported data, raise these concerns with your account manager.

There are two methods for opting out of automated reporting:

- HCL configuration (recommended)
- Environment variable (requires restart)

We recommend opting out in your product's configuration file because it does not require a system restart. Add the following block to your `configuration.hcl` or `configuration.json` file.

```hcl
reporting {
 license {
  enabled = false
 }
}
```

When opting out using an environment variable, the system provides a startup message
 confirming that you have disabled automated reporting. Set the following environment variable to disable automated reporting:

<CodeBlockConfig>

```shell-session
$ export OPTOUT_LICENSE_REPORTING=true
```

</CodeBlockConfig>

After you set the environment variable, restart your system to complete the process for opting out.

```shell-session
```

$ consul reload
```


Check your product logs roughly 24 hours after opting out to make sure that the system is not trying to send reports. Keep in mind that if your configuration file and environment variable differ, the environment variable setting takes precedence.

## Example payloads

HashiCorp collects the following utilization data as JSON payloads:
`exporter_version` - The version of the licensing exporter

<CodeBlockConfig hideClipboard>

```json
{
 "payload": {
   "payload_version": "1",
   "license_id": "d2cdd857-4202-5a45-70a6-e4b531050c34",
   "product": "consul",
   "product_version": "1.16.0-dev+ent",
   "export_timestamp":
 "2023-05-26T20:09:13.753921087Z",
   "snapshots": [
     {
       "snapshot_version": 1,
       "snapshot_id": "0001J724F90F4XWQDSAA76ZQWA",
       "process_id": "01H1CTJPC1S8H7Q45MKTJ689ZW",
       "timestamp": "2023-05-26T20:09:13.753513962Z",
       "schema_version": "1.0.0",
       "service": "consul",
       "metrics": {
         "consul.billable.nodes": {
           "key": "consul.billable.nodes",
           "kind": "counter",
           "mode": "write",
           "value": 2
         },
         "consul.billable.service_instances": {
           "key": "consul.billable.service_instances",
           "kind": "counter",
           "mode": "write",
           "value": 2
         }
       }
     }
   ],
```
```

```
  "metadata": {}
 }
}
```

</CodeBlockConfig>
---
layout: docs
page_title: Storing the Enterprise License in Vault
description: >-
 Configuring the Consul Helm chart to use an enterprise license stored in Vault.

Storing the Enterprise License in Vault

This topic describes how to configure the Consul Helm chart to use an enterprise license stored in Vault.
Overview
Complete the steps outlined in the [Data Integration](/consul/docs/k8s/deployment-configurations/vault/data-integration) section to use an enterprise license stored in Vault.

Complete the following steps once:
 1. Store the secret in Vault.
 1. Create a Vault policy that authorizes the desired level of access to the secret.

Repeat the following steps for each datacenter in the cluster:
 1. Create Vault Kubernetes auth roles that link the policy to each Consul on Kubernetes service account that requires access.
 1. Update the Consul on Kubernetes helm chart.

Prerequisites
Prior to setting up the data integration between Vault and Consul on Kubernetes,
 you will need to have:
1. Read and completed the steps in the [Systems Integration](/consul/docs/k8s/deployment-configurations/vault/systems-integration) section of [Vault as a Secrets Backend](/consul/docs/k8s/deployment-configurations/vault).
2. Read the [Data Integration Overview](/consul/docs/k8s/deployment-configurations/vault/data-integration) section of [Vault as a Secrets Backend](/consul/docs/k8s/deployment-configurations/vault).

Store the Secret in Vault

First, store the enterprise license in Vault:

```shell-session
$ vault kv put consul-kv/secret/enterpriselicense key="<enterprise license>"
```

Create Vault policy

Next, you will need to create a policy that allows read access to this secret.

The path to the secret referenced in the `path` resource is the same value that you will configure in the `global.enterpriseLicense.secretName` Helm configuration (refer to [Update Consul on Kubernetes Helm chart](#update-consul-on-kubernetes-helm-chart)).

<CodeBlockConfig
 filename="license-policy.hcl">

```HCL
path "consul-kv/data/secret/enterpriselicense" {
 capabilities = ["read"]
}
```

</CodeBlockConfig>

Apply the Vault policy by issuing the `vault policy write` CLI command:

```shell-session
$ vault policy write license-policy license-policy.hcl
```

Create Vault Authorization Roles for Consul

Next, you will create Kubernetes auth roles for the Consul server and client:

```shell-session
$ vault write auth/kubernetes/role/consul-server \
   bound_service_account_names=<Consul server service account> \
   bound_service_account_namespaces=<Consul installation namespace> \
   policies=license-policy \
   ttl=1h
```

```shell-session
$ vault write auth/kubernetes/role/consul-client \
   bound_service_account_names=<Consul client service account> \
   bound_service_account_namespaces=<Consul installation namespace> \
   policies=license-policy \
   ttl=1h
```

To find out the service account names of the Consul server and client,
you can
 run the following `helm template` commands with your Consul on Kubernetes values file:

- Generate Consul server service account name

```shell-session
$ helm template --release-name ${RELEASE_NAME} -s templates/server-serviceaccount.yaml hashicorp/consul -f values.yaml
```

- Generate Consul client service account name
```shell-session
$ helm template --release-name ${RELEASE_NAME} -s templates/client-serviceaccount.yaml hashicorp/consul -f values.yaml
```

Update Consul on Kubernetes Helm chart.

Now that you have configured Vault, you can configure the Consul Helm chart to
use the enterprise enterprise license in Vault:

<CodeBlockConfig filename="values.yaml">

```yaml
global:
 image: hashicorp/consul-enterprise:1.12.0-ent
 secretsBackend:
   vault:
     enabled: true
     consulServerRole: consul-server
     consulClientRole: consul-client
 enterpriseLicense:
   secretName: consul-kv/data/secret/enterpriselicense
   secretKey: key
```

</CodeBlockConfig>

Note
 that `global.enterpriseLicense.secretName` is the path of the secret in Vault.
This should be the same path as the one you included in your Vault policy.
`global.enterpriseLicense.secretKey` is the key inside the secret data. This should be the same
as the key you passed when creating the enterprise license secret in Vault.
{{!
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}}

<Hds::Alert @type='inline' @color={{or @type "neutral"}} class='mb-2 mt-2 consul-intention-notice-custom-resource' as |A|>
 <A.Title>Intention Custom Resource</A.Title>
 <A.Description>Some of your intentions are being managed through an Intention Custom Resource in your Kubernetes cluster. Those managed intentions will be view only in the UI. Any intentions created in the UI will

```
work but will not be synced to the Custom Resource Definition (CRD) datastore.</A.Description>
 <A.Link::Standalone @href="{{env 'CONSUL_DOCS_URL'}}/k8s/crds"
                @text='Learn more about CRDs'
                @icon="docs-link"
                @iconPosition="trailing"
                @size="small" />
</Hds::Alert>
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

.consul-intention-permission-form {
 h2 {
   border-top: 1px solid var(--token-color-foreground-action);
   @extend %display-400-semibold;
 }
 button.type-submit {
   @extend %frame-blue-300;
 }
 button.type-submit:hover:not(:disabled),
 button.type-submit:focus:not(:disabled) {
   @extend %frame-blue-500;
 }
 button.type-submit:disabled {
   @extend %frame-blue-200;
 }
}

.consul-intention-view {
 h2 {
   @extend %display-400-semibold;
 }
}
```

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*
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*/

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* focus-trap 6.9.4
* @license MIT, https://github.com/focus-trap/focus-trap/blob/master/LICENSE
*/

/*! ******************************************************************************
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{{#if (gt items.length 0)}}
<ListCollection
 class="consul-intention-permission-list{{if (not onclick) ' readonly'}}"
 @scroll="native"
 @items={{items}}
 @partial={{5}}
as |item|>
 <BlockSlot @name="details">
   <div onclick={{action (optional onclick) item}}>
     <strong class={{concat 'intent-' item.Action}}>{{capitalize item.Action}}</strong>
{{#if (gt item.HTTP.Methods.length 0)}}
       <dl class="permission-methods">
         <dt>
           <Tooltip>
             Methods
           </Tooltip>
         </dt>
         <dd>
{{#each item.HTTP.Methods as |item|}}
           {{item}}
{{/each}}
         </dd>
       </dl>
{{/if}}
{{#if item.HTTP.Path}}
```

```
      <dl class="permission-path">
        <dt>
          <Tooltip>
            {{item.HTTP.PathType}}
          </Tooltip>
        </dt>
        <dd>
          {{item.HTTP.Path}}
        </dd>
      </dl>
{{/if}}
{{#each item.HTTP.Header
 as |item|}}
      <dl class="permission-header">
        <dt>
          <Tooltip>
            Header
          </Tooltip>
        </dt>
        <dd>
          {{item.Name}} {{route-match item}}
        </dd>
      </dl>
{{/each}}
  </div>
 </BlockSlot>
{{#if onclick}}
 <BlockSlot @name="actions" as |Actions|>
  <Actions as |Action|>
    <Action data-test-edit-action @onclick={{action (optional onclick) item}} @close={{true}}>
      <BlockSlot @name="label">
        Edit
      </BlockSlot>
    </Action>
    <Action data-test-delete-action @onclick={{action ondelete item}} class="dangerous">
      <BlockSlot @name="label">
        Delete
      </BlockSlot>
      <BlockSlot @name="confirmation" as |Confirmation|>
        <Confirmation class="warning">
          <BlockSlot @name="header">
            Confirm delete
          </BlockSlot>
          <BlockSlot @name="body">
            <p>
              Are you sure you
 want to delete this permission?
            </p>
```

```
          </BlockSlot>
          <BlockSlot @name="confirm" as |Confirm|>
            <Confirm>Delete</Confirm>
          </BlockSlot>
        </Confirmation>
      </BlockSlot>
    </Action>
  </Actions>
 </BlockSlot>
{{/if}}
</ListCollection>
{{/if}}
{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
   "rules": {
     "policies": {
       "consul-intentions-layer7-0": {
         "permissions": [
           {
             "andRules": {
               "rules": [
                 {
                   "andRules": {
                     "rules": [
                       {
                         "urlPath": {
                           "path": {
                             "prefix": "/v1"
                           }
                         }
                       },
                       {
                         "header": {
                           "name": "x-foo",
                           "presentMatch": true
                         }
                       }
                     ]
                   }
                 },
                 {
                   "notRule": {
                     "andRules": {

                     "rules": [
                       {
```

```
                "urlPath": {
                  "path": {
                    "exact": "/v1/secret"
                  }
                }
              },
              {
                "header": {
                  "name": "x-baz",
                  "presentMatch": true
                }
              },
              {
                "header": {
                  "name": "x-bar",
                  "presentMatch": true
                }
              }
            ]
          }
        }
      },
      {
        "notRule": {
          "andRules": {
            "rules": [
              {

"urlPath": {
                  "path": {
                    "exact": "/v1/admin"
                  }
                }
              },
              {
                "header": {
                  "name": "x-baz",
                  "presentMatch": true
                }
              },
              {
                "header": {
                  "name": "x-bar",
                  "presentMatch": true
                }
              }
            ]
          }
```

```
                }
              }
            ]
          }
        },
        {
          "andRules": {
            "rules": [
              {
                "andRules": {
                  "rules": [
                    {

  "urlPath": {
                        "path": {
                          "prefix": "/v2"
                        }
                      }
                    },
                    {
                      "header": {
                        "name": "x-foo",
                        "presentMatch": true
                      }
                    }
                  ]
                }
              },
              {
                "notRule": {
                  "andRules": {
                    "rules": [
                      {
                        "urlPath": {
                          "path": {
                            "exact": "/v2/secret"
                          }
                        }
                      },
                      {
                        "header": {
                          "name": "x-baz",
                          "presentMatch":
true
                        }
                      },
                      {
                        "header": {
```

```
                "name": "x-bar",
                "presentMatch": true
              }
            }
          ]
        }
      }
    },
    {
      "notRule": {
        "andRules": {
          "rules": [
            {
              "urlPath": {
                "path": {
                  "exact": "/v2/admin"
                }
              }
            },
            {
              "header": {
                "name": "x-baz",
                "presentMatch": true
              }
            },

  {
              "header": {
                "name": "x-bar",
                "presentMatch": true
              }
            }
          ]
        }
      }
    }
  ]
  }
}
],
"principals": [
  {
    "authenticated": {
      "principalName": {
        "safeRegex": {
          "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
        }
      }
```

```
            }
          }
        ]
      }
    }
  }
 }
}
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

.agentless-node-notice .hds-alert__title {
 display: flex;
 justify-content: space-between;
}
Mozilla Public License 2.0 (MPLv2.0)
---
layout: commands
page_title: 'Commands: License'
description: >
 The license command provides a datacenter-level view of the Consul
 Enterprise license.
---

# Consul License

Command: `consul license`

<EnterpriseAlert />

The `license` command provides a list of all datacenters that use the Consul Enterprise license applied to the current datacenter.

~> **Warning**: Consul 1.10.0 removed the ability to set and reset the license using the CLI.
See the [licensing documentation](/consul/docs/enterprise/license/overview) for more information about
Consul Enterprise license management.

If ACLs are enabled then a token with operator privileges may be required in
order to use this command. Requests are forwarded internally to the leader
if required, so this can be run from any Consul node in a cluster. See the
[ACL Guide](/consul/tutorials/security/access-control-setup-production) for more information.

```text
Usage: consul license <subcommand> [options] [args]

 This command has subcommands
```
```

for managing the Consul Enterprise license
Here are some simple examples, and more detailed examples are
available in the subcommands or the documentation.

Install a new license from a file:

    $ consul license put @consul.license

Install a new license from stdin:

    $ consul license put -

Install a new license from a string:

    $ consul license put "<license blob>"

Retrieve the current license:

    $ consul license get

Inspect a license:

    $ consul license inspect "<path to license file>"

Reset the current license:

    $ consul license reset

For more examples, ask for subcommand help or view the documentation.

Subcommands:
  get Get the active license
  inspect Inspect a signed license
  put Puts a new license in the datacenter
  reset Resets the license in the datacenter

```

## inspect

This command inspects and validates a license. Just like a Consul agent it
can load the license from a file
 on disk or from the `CONSUL_LICENSE` and
`CONSUL_LICENSE_PATH` environment variables.

Usage: `consul license inspect [<options>] [<license file>]`

Inspect a license contained in a file:
```

```
$ consul license inspect consul.hclic
```

Inspect a license loaded from the environment:

```
$ consul license inspect
```

This will look at the CONSUL_LICENSE environment variable first
and if not present then we will look for the file specified
by the CONSUL_LICENSE_PATH environment variable.

The output looks like this:

```
Source: /consul/config/consul.hclic (path from the CONSUL_LICENSE_PATH environment variable)
Product: consul
License ID: 6089174b-a713-74cf-4c8d-856b86f1ce50
Customer ID: 7c020610-60a2-7ccb-c210-20d899e5f3b4
Installation ID: *
Issue Time: 2020-09-14 19:45:56.212195875 +0000 UTC
Start Time: 2020-09-14 00:00:00 +0000 UTC
Expiration Time: 2021-09-14 23:59:59.999 +0000 UTC
Termination Time: 2021-09-14 23:59:59.999 +0000 UTC
Modules:
    Global Visibility, Routing and Scale
     Governance and Policy
Features:
    Automated Backups
    Automated Upgrades
    Enhanced Read Scalability
    Network Segments
    Redundancy Zone
    Advanced Network Federation
    Namespaces
    SSO
    Audit Logging
    Admin Partitions

License is valid

```

put

-> **Deprecated** The ability to manage the cluster's license via the CLI
was removed in Consul 1.10. While the CLI command still exists it will
always return an error. This command will be fully removed in a future release.

Corresponding HTTP API Endpoint: [\[PUT\] /v1/operator/license](/consul/api-docs/operator/license#updating-the-consul-license)

This command sets the Consul Enterprise license.

The table below shows this command's [required ACLs](/consul/api-docs/api-structure#authentication). Configuration of
[blocking queries](/consul/api-docs/features/blocking) and [agent caching](/consul/api-docs/features/caching)
are not supported from commands, but may be
 from the corresponding HTTP endpoint.

ACL Required
`operator:write`

Usage: `consul license put [options] LICENSE`

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
	Automated Backups
	Automated Upgrades
	Enhanced Read Scalability
	Network Segments
	Redundancy Zone
	Advanced Network Federation
```

API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

get

Corresponding HTTP API Endpoint: [\[GET\] /v1/operator/license](/consul/api-docs/operator/license#getting-the-

consul-license)

This command gets the Consul Enterprise license. If the leader hasn't been updated with the newer license, the followers
will display the outdated license in their GET output.

The table below
 shows this command's [required ACLs](/consul/api-docs/api-structure#authentication). Configuration of [blocking queries](/consul/api-docs/features/blocking) and [agent caching](/consul/api-docs/features/caching) are not supported from commands, but may be from the corresponding HTTP endpoint.

ACL Required
`none`

Usage: `consul license get [options]`

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
    Automated Backups
    Automated Upgrades
    Enhanced Read Scalability
    Network Segments
    Redundancy Zone
    Advanced Network Federation
```

API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

reset

-> **Deprecated** The ability to manage the cluster's license via the CLI
was
 removed in Consul 1.10. While the CLI command still exists it will
always return an error. This command will be fully removed in a future release.

Corresponding HTTP API Endpoint: [\[DELETE\] /v1/operator/license](/consul/api-docs/operator/license#resetting-the-consul-license)

Resets license for the datacenter to the one builtin in Consul binary, if it is still valid.
If the builtin license is invalid, the current one stays active.

The table below shows this command's [required ACLs](/consul/api-docs/api-structure#authentication). Configuration of
[blocking queries](/consul/api-docs/features/blocking) and [agent caching](/consul/api-docs/features/caching) are not supported from commands, but may be from the corresponding HTTP endpoint.

ACL Required
`operator:write`

Usage: `consul license reset [options]`

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires
 At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
      Automated Backups
      Automated Upgrades
      Enhanced Read Scalability
      Network Segments
      Redundancy Zone
      Advanced Network Federation
```

API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'


```
{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
   "rules": {
     "policies": {
       "consul-intentions-layer7-0": {
```

```
"permissions": [
  {
    "andRules": {
      "rules": [
        {
          "urlPath": {
            "path": {
              "prefix": "some-path"
            }
          }
        },
        {
          "andRules": {
            "rules": [
              {
                "metadata": {
                  "filter": "envoy.filters.http.jwt_authn",
                  "path": [
                    {
                      "key": "jwt_payload_okta"
                    },
                    {
                      "key": "iss"
                    }

                  ],
                  "value": {
                    "stringMatch": {
                      "exact": "mytest.okta-issuer"
                    }
                  }
                }
              },
              {
                "metadata": {
                  "filter": "envoy.filters.http.jwt_authn",
                  "path": [
                    {
                      "key": "jwt_payload_okta"
                    },
                    {
                      "key": "roles"
                    }
                  ],
                  "value": {
                    "stringMatch": {
                      "exact": "testing"
                    }
```

```
                    }
                  }
                }

        ]
              }
            }
          ]
        }
      }
      ],
      "principals": [
        {
          "authenticated": {
            "principalName": {
              "safeRegex": {
                "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
              }
            }
          }
        }
      ]
    }
  }
 }
}
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

section[data-route='dc.show.license'] {
 @extend %license-route;
}
%license-route .validity {
 @extend %license-validity;
}
%license-route aside {
 @extend %license-route-learn-more;
}

%license-route h2 {
 @extend %display-400-semibold;
}

%license-validity p {
 color: var(--token-color-foreground-faint);
```

```
}
%license-validity dl {
 @extend %horizontal-kv-list;
 @extend %body-300-regular;
}
%license-validity dl .expired + dd {
 @extend %visually-hidden;
}
%license-validity dl dt::before {
 content: '';
 margin-right: 0.25rem; /* 4px */
}
%license-validity dl .expired::before {
 --icon-name: icon-x-circle;
 --icon-color: var(--token-color-foreground-critical);
}
%license-validity dl .warning::before {
 --icon-name: icon-alert-circle;
 --icon-color: var(--token-color-foreground-warning);
}
%license-validity dl .valid:not(.warning)::before {
 --icon-name: icon-check-circle;
 --icon-color: var(--token-color-foreground-success);
}

%license-route-learn-more
 {
 @extend %panel;
 box-shadow: none;
 padding: var(--padding-y) var(--padding-x);
 width: 40%;
 min-width: 413px;
 margin-top: 1rem; /* 16px */
}
%license-route-learn-more header > :first-child {
 @extend %display-300-semibold;
}
%license-route-learn-more header {
 margin-bottom: 1rem; /* 16px */
}
{{!
 Copyright (c) HashiCorp, Inc.
 SPDX-License-Identifier: BUSL-1.1
}}

<Route
 @name={{routeName}}
as |route|>
```

```
<DataLoader
  @src={{
    uri '/${partition}/${nspace}/${dc}/license'
    (hash
      partition=route.params.partition
      nspace=route.params.nspace
      dc=route.params.dc
    )
  }}
as |loader|>

{{#let
 loader.data
as |item|}}
  <BlockSlot @name="error">
    <ErrorState
      @error={{loader.error}}
      @login={{route.model.app.login.open}}
    />
  </BlockSlot>

  <BlockSlot @name="disconnected" as |after|>
    {{#if (eq loader.error.status "404")}}
      <Hds::Toast @color='warning'
        {{notification
          sticky=true
        }} as |T|>
        <T.Title>Warning!</T.Title>
        <T.Description>This service has been deregistered and no longer exists in the catalog.</T.Description>
      </Hds::Toast>
    {{else if (eq loader.error.status "403")}}
      <Hds::Toast @color='critical'
        {{notification
           sticky=true
        }} as |T|>
        <T.Title>Error!</T.Title>
        <T.Description>You no longer have access to this service.</T.Description>
      </Hds::Toast>
    {{else}}
      <Hds::Toast @color='warning'
        {{notification
          sticky=true
        }} as |T|>
        <T.Title>Warning!</T.Title>
        <T.Description>An error was returned whilst loading this data, refresh to try again.</T.Description>
      </Hds::Toast>
    {{/if}}
  </BlockSlot>
```

```
<BlockSlot @name="loaded">
  <div class="tab-section">
    <section
      class={{class-map
        'validity'
        (array 'valid' item.Valid)
      }}
    >
      <header>
        <h2>
          {{compute (fn route.t 'expiry.header')}}
        </h2>
      </header>

      <p>
        {{compute (fn route.t 'expiry.${type}.body'
          (hash
            type=(if item.Valid 'valid' 'expired')

   date=(format-time item.License.expiration_time
              year='numeric'
              month='long'
              day='numeric'
            )
            time=(format-time item.License.expiration_time
              hour12=true
              hour='numeric'
              hourCycle='h12'
              minute='numeric'
              second='numeric'
              timeZoneName='short'
            )
            htmlSafe=true
          )
        )}}
      </p>

      <dl>
        <dt class={{class-map
            (array 'valid' item.Valid)
            (array 'expired' (not item.Valid))
            (array 'warning' (temporal-within item.License.expiration_time 2629800000))
          }}
        >
          {{compute (fn route.t 'expiry.${type}.header'
            (hash
              type=(if item.Valid 'valid' 'expired')
```

```
            )
           )}}
          </dt>

   <dd>
           {{temporal-format item.License.expiration_time}}
          </dd>
        </dl>

        <aside>
          <header>
            <h3>
              {{compute (fn route.t 'documentation.title')}}
            </h3>
          </header>
          <div class="flex gap-1.5 flex-col">
            <Hds::Link::Standalone
              @text={{compute (fn route.t 'documentation.links.license-expiration.text')}}
              @href='{{concat (env 'CONSUL_DOCS_URL') (compute (fn route.t 'documentation.links.license-
expiration.link'))}}'
              @icon='docs-link'
              @iconPosition='trailing'
            />
            <Hds::Link::Standalone
              @text={{compute (fn route.t 'documentation.links.renewing-license.text')}}
              @href='{{concat (env 'CONSUL_DOCS_URL') (compute (fn route.t 'documentation.links.renewing-
license.link'))}}'
              @icon='docs-link'
              @iconPosition='trailing'

          />
            <Hds::Link::Standalone
              @text={{compute (fn route.t 'documentation.links.applying-new-license.text')}}
              @href='{{concat (env 'CONSUL_DOCS_URL') (compute (fn route.t 'documentation.links.applying-new-
license.link'))}}'
              @icon='docs-link'
              @iconPosition='trailing'
            />
          </div>
        </aside>

      </section>
    </div>
  </BlockSlot>
{{/let}}
 </DataLoader>
</Route>
```

```
// Copyright (c) HashiCorp, Inc.
// SPDX-License-Identifier: MPL-2.0

package api

import (
 "io"
 "strings"
 "time"
)

type License struct {
 // The unique identifier of the license
 LicenseID string `json:"license_id"`

 // The customer ID associated with the license
 CustomerID string `json:"customer_id"`

 // If set, an identifier that should be used to lock the license to a
 // particular site, cluster, etc.
 InstallationID string `json:"installation_id"`

 // The time at which the license was issued
 IssueTime time.Time `json:"issue_time"`

 // The time at which the license starts being valid
 StartTime time.Time `json:"start_time"`

 // The time after which the license expires
 ExpirationTime time.Time `json:"expiration_time"`

 // The time at which the license ceases to function and can
 // no longer be used in any capacity
 TerminationTime time.Time `json:"termination_time"`

 // Whether the license will ignore termination
 IgnoreTermination bool `json:"ignore_termination"`

 //
 The product the license is valid for
 Product string `json:"product"`

 // License Specific Flags
 Flags map[string]interface{} `json:"flags"`

 // Modules is a list of the licensed enterprise modules
 Modules []string `json:"modules"`
```

```
 // List of features enabled by the license
 Features []string `json:"features"`
}

type LicenseReply struct {
 Valid    bool
 License  *License
 Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
 var reply LicenseReply
 if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
  return nil, err
 } else {
  return &reply, nil
 }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
 r := op.c.newRequest("GET", "/v1/operator/license")
 r.params.Set("signed", "1")
 r.setQueryOptions(q)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return "", err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return "", err
 }

 data, err := io.ReadAll(resp.Body)
 if
 err != nil {
  return "", err
 }

 return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
```

```
 r := op.c.newRequest("DELETE", "/v1/operator/license")
 r.setWriteOptions(opts)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return nil, err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return nil, err
 }
 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
 }
 return &reply, nil
}

// LicensePut will configure the Consul Enterprise license for the target datacenter
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set
 via agent configuration instead of through the API
func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r := op.c.newRequest("PUT", "/v1/operator/license")
 r.setWriteOptions(opts)
 r.body = strings.NewReader(license)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return nil, err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return nil, err
 }

 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
 }

 return &reply, nil
}
---
layout: docs
page_title: Enterprise License FAQ
description: >-
 Review frequently asked questions (FAQs) about Consul Enterprise licenses to learn more about how licenses
work, what happens when they expire, and how to get a trial license.
---
```

Frequently Asked Questions (FAQ)

This FAQ is for the license changes introduced in Consul Enterprise version 1.10.0.
Consul Enterprise automatically loads Consul licenses when the server agent starts.

Q: Can I get a quick summary of the Consul changes?

Starting with Consul Enterprise 1.10.0, the license enablement process is different.

HashiCorp Enterprise servers will no longer start without a license. Servers require licenses to be provided from either an environment variable or file.
If the license is missing, invalid, or expired, the server will immediately exit.
This check is part of the server boot-up process.

In previous versions of HashiCorp enterprise products, one server could distribute a license to other servers via the Raft protocol.
This will no longer work since each server must be able to find a valid license during the startup process.

Q: What are the upgrade requirements?

All customers on Consul Enterprise 1.8/1.9 must first upgrade their client and server agents to the latest patch release.
During the upgrade the license file must also be configured on client agents in an environment variable or file path, otherwise the Consul agents will fail to retrieve the license with a valid agent token.
The upgrade process varies if ACLs are enabled or disabled in the cluster.
Refer to the instructions on [upgrading to 1.10.x](/consul/docs/upgrading/instructions/upgrade-to-1-10-x) for details.

Q: Is there a tutorial available for the license configuration steps?

Please visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs).

Q: What resources are available?

The list below is a great starting point for learning more about the license changes introduced in Consul Enterprise 1.10.0+ent.

- [Consul Enterprise Upgrade Documentation](/consul/docs/enterprise/upgrades)

- [Consul License Documentation](/consul/docs/enterprise/license/overview)

- [License configuration values documentation](/consul/docs/enterprise/license/overview#binaries-without-built-in-licenses)

- [Install a HashiCorp Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs)

Q: Do these changes impact all customers/licenses?

The license changes introduced in 1.10.0 only affect Consul Enterprise.
This impacts customers that have an enterprise binary (trial or non-trial licenses) downloaded from https://releases.hashicorp.com.
The license changes do not impact customers with the baked-in licensed binaries. In a later release of Consul Enterprise, baked-in binaries will be deprecated.

Q: What is the product behavior change introduced by the licensing changes?

Starting with Consul Enterprise 1.10.0,
 a valid license is required on-disk (auto-loading) or as an environment variable for Consul Enterprise to successfully boot-up.
The in-storage license feature will not be supported starting with Consul Enterprise 1.10.0+ent. All Consul Enterprise clusters using 1.10.0+ent must ensure that there is a valid license on-disk (auto-loaded) or as an environment variable.

Q: What is the impact on trial licenses due to this change? ((#q-what-is-the-impact-on-evaluation-licenses-due-to-this-change))

Consul Enterprise 1.10.0+ server agents require a valid license to start.
The license can be provided on disk (auto-loaded) or as an environment variable.
There is no longer a 6-hour trial period in which Consul Enterprise server agents
can operate without a license.

Q: Is there a grace period when licenses expire?

YesConsul will continue normal operation and can be restarted after license *expiration* as defined in [`expiration_time`](/consul/api-docs/operator/license#getting-the-consul-license).
As
 license expiration is approached or passed, Consul will issue warnings in the system logs.

Consul will only cease operation after license *termination*, which occurs 10 years
after license expiration and is defined in
[`termination_time`](/consul/api-docs/operator/license#getting-the-consul-license).

~> **Starting with Consul 1.14, and patch releases 1.13.3 and 1.12.6, Consul will support non-terminating licenses**:
  Please contact your support representative for more details on non-terminating licenses.
  An expired license will not allow Consul versions released after the expiration date to run.
  It will not be possible to upgrade to a new version of Consul released after license expiration.

Q: Does this affect client agents?

There are upgrade requirements that affect Consul Enterprise clients.
Please review the [upgrade requirements](#q-what-are-the-upgrade-requirements) documentation.

Q: Does this affect snapshot agents?

Same behavior as Consul clients.
See answer for [Does this affect client agents?](#q-does-this-affect-client-agents)

Q: What is the behavior if the license is missing?

Consul server agents will detect the absence of the license and immediately exit.

Consul client agents will attempt to retrieve the license from servers if certain conditions are met:

- ACLs are enabled.
- An ACL token is provided to the client agent.
- The client agents configuration contains `retry_join` addresses.
- The retry join addresses are addresses of the Consul servers.

Consul snapshot agents will attempt to retrieve the license from servers if certain conditions are met: ACLs are enabled, a ACL token is provided to the client agent, the client agents configuration contains `retry_join` addresses, the retry join addresses are addresses of the Consul servers.

Q: Where can users get a trial license for Consul Enterprise?

Contact your [HashiCorp Support contact](https://support.hashicorp.com/) for a development license.

~> **Trial
install will cease operation 24 hours after 30-day license expiration**:
Trial licenses are not meant to be used in production.
This is unlike non-trial licenses which provide a 10 year grace period as described in
the answer for [Q: Is there a grace period when licenses expire?](#q-is-there-a-grace-period-when-licenses-expire).

Q: How can I renew a license?

Contact your organization's [HashiCorp account team](https://support.hashicorp.com/hc/en-us) for information on how to renew your organization's enterprise license.

Q: I'm an existing enterprise customer but don't have my license, how can I get it?

Contact your organization's [HashiCorp account team](https://support.hashicorp.com/hc/en-us) for information on how to renew your organization's enterprise license.

Q: Are the license files locked to a specific cluster?

The license files are not locked to a specific cluster or cluster node. The above changes apply to all nodes in a cluster.

Q: Will this
impact HCP Consul?

This will not impact HCP Consul.

Q: Does this need to happen every time a node restarts, or is this a one-time check?

Consul Enterprise binaries starting with 1.10.0+ent, will be subject to EULA check. Release 1.10.0+ent introduces the EULA check for trial licenses (non-trial licenses already go through EULA check during contractual agreement).

The agreement to a EULA happens only once (when the user gets their license), Consul Enterprise **will check for the presence of a valid license every time a node restarts**.

When a customer upgrades existing clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be auto-loaded.

When a customer deploys new clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be on-disk (auto-loaded).

Q: What are the scenarios that a customer must plan for because of these changes?

New Consul cluster deployments
using 1.10.0+ent will need to have a valid license on servers to successfully deploy.
This valid license must be on-disk (auto-loaded) or as an environment variable.
Please see the [upgrade requirements](/consul/docs/enterprise/license/faq#q-what-are-the-upgrade-requirements).

Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?

VM

1. Run [`consul license get -signed`](/consul/commands/license#get) to extract the license from their running cluster. Store the license in a secure location on disk.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have access to the required license. This could be via the client agent configuration file or an environment variable.
1. Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license key.
1. Follow the
Consul upgrade [documentation](/consul/docs/upgrading).

Kubernetes

NOTE: If you are not upgrading Consul or your Helm chart version then no action is required.

1. In order to use Consul Enterprise 1.10.0 or greater on Kubernetes you must use version 0.32.0 or greater of the Helm chart.
1. You should already have a Consul Enterprise license set as a Kubernetes secret. If you do not, refer to [how to obtain a copy of your license](/consul/docs/enterprise/license/faq#q-i-m-an-existing-enterprise-customer-but-don-t-have-my-license-how-can-i-get-it).
Once you have the license then create a Kubernetes secret containing the license as described in [Kubernetes - Consul Enterprise](/consul/docs/k8s/deployment-configurations/consul-enterprise).
1. Follow the [Kubernetes Upgrade Docs](/consul/docs/k8s/upgrade) to upgrade. No changes to your `values.yaml`

file are needed to enable enterprise autoloading since this support is built in to consul-helm 0.32.0 and greater.

!> **Warning:**
 If you are upgrading the Helm chart but **not** upgrading the Consul version, you must set `server.enterpriseLicense.enableLicenseAutoload: false`. See [Kubernetes - Consul Enterprise](/consul/docs/k8s/deployment-configurations/consul-enterprise) for more details.

Q: What is the migration path for customers who want to migrate from their existing perpetually-licensed binaries to the license on disk flow?

VM

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's [customer success manager](https://support.hashicorp.com/hc/en-us) (CSM) for information on how to get your organization's enterprise license.
1. Store the license in a secure location on disk.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.
  Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license key.
1. Follow the Consul upgrade [documentation](/consul/docs/upgrading).

Kubernetes

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's [customer success manager](https://support.hashicorp.com/hc/en-us) (CSM) for information on how to get your organization's enterprise license.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.
  Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license key.
1. Proceed with the `helm` [upgrade instructions](/consul/docs/k8s/upgrade)

Q: Will Consul downgrades/rollbacks work?

When downgrading to a version
 of Consul before 1.10.0+ent, customers will need to follow the previous process for applying an enterprise licenses to Consul Enterprise.

Q: Are there potential pitfalls when downgrading or upgrading Consul server instances?

~> Verify that you meet the [upgrade requirements](/consul/docs/enterprise/license/faq#q-what-are-the-upgrade-requirements).

Assume a scenario where there are three Consul server nodes:

- Node A: v1.9.5
- Node B: v1.10.0 [Leader]

- Node C: v1.9.5

The command `consul license put` is issued from Node A. This will result in an error due to how Consul routes calls to the server node, Node B in this example.
Because Node A is a follower when the call `consul license put` is issued, the call will be redirected to Node B (leader).
The `consul license put` operation will fail due to being removed from 1.10.0.
This is a scenario that could occur if a customer downgrades from 1.10.0+ and the Consul leadership has not transferred back over to a node not running 1.10.0+.
This
 also has the potential of occurring when upgrading if scheduled license updates or autoscaling groups recoveries are in place.

Q: Any impacts to Consul Kubernetes?

If you are using a Consul Enterprise version prior to 1.10.0 and decide to upgrade the Helm chart to version 0.32.0 or newer, but not the Consul version.
You will need to add the following configuration.

```
server:
 enterpriseLicense:
   enableLicenseAutoload: false
```
---
layout: docs
page_title: Enterprise Licenses
description: >-
 Consul Enterprise server, client, and snapshot agents require a license on startup in order to use Enterprise features. Learn how to apply licenses using environment variables or configuration files.

Consul Enterprise License

Licensing Overview

All Consul Enterprise agents must be licensed when they are started. Where that license comes from will depend on which binary is in use, whether the agent is a server, client or snapshot agent, and whether ACLs have been enabled for the cluster.

-> ** Consul Enterprise 1.10.0 removed temporary licensing.** Prior to 1.10.0, Consul Enterprise agents could start without a license and then have a license applied to them later on via the CLI or API. That functionality has been removed and replaced with the ability to load licenses from the agent's configuration or environment. Also, prior to 1.10.0, server agents would automatically propagate the license between themselves.
 This no longer occurs and the license must be present on each server agent when it is started.

Consul Enterprise 1.14.0, when running on Kubernetes, removed client agents and replaced these with virtual agents.
Virtual agents are nodes that Consul service mesh services run on. HashiCorp uses virtual agents to determine license entitlements for customers on per-node licensing and pricing agreements.

-> Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license key.

Applying a License

For Consul Enterprise 1.10.0 or greater, a license must be available at the time the agent starts.
For server agents this means that they must either have the [`license_path`](/consul/docs/agent/config/config-files#license_path)
configuration set or have a license configured in the servers environment with the `CONSUL_LICENSE` or `CONSUL_LICENSE_PATH` environment variables. Both the configuration
item and the `CONSUL_LICENSE_PATH`
environment variable point to a file containing the license whereas the `CONSUL_LICENSE` environment variable should contain the license as the value. If multiple variables are set,
the following order of precedence applies:

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

Client agents and [snapshot agents](/consul/docs/enterprise/backups)
may also be licensed in the very same manner.
However, to avoid the need to configure the license on many client agents and snapshot agents,
those agents have the capability to retrieve the license automatically under the conditions described below.

Virtual agents do not need the license to run.

Updating the license for an agent depends on the method you used to apply the license.
- **If you used the `CONSUL_LICENSE`
environment variable**: After updating the environment variable, restart the affected agents.
- **If you used the
`CONSUL_LICENSE_PATH`
environment variable**: Update the license file first. Then, restart the affected agents.
- **If you used the `license_path` configuration item**: Update the license file first. Then, run [`consul reload`](/consul/commands/reload) for the affected agents.

Client Agent License Retrieval

When a client agent starts without a license in its configuration or environment, it will try to retrieve the license from the servers via RPCs. That RPC always requires a valid non-anonymous ACL token to authorize the request but the token doesn't need any particular permissions. As the license is required before the client actually joins the cluster, where to make those RPC requests to is inferred from the [`retry_join`](/consul/docs/agent/config/config-files#retry_join) configuration. If `retry_join` is unset or no [`agent` token](/consul/docs/agent/config/config-files#acl_tokens_agent) is set then the client agent will

immediately shut itself down.

If all preliminary checks
 pass the client agent will attempt to reach out to any server on its RPC port to
request the license. These requests will be retried for up to 5 minutes and if it is unable to retrieve a
license within that time frame it will shut itself down.

If ACLs are disabled then the license must be provided to the client agent through one of the three methods listed below.
Failure in providing the client agent with a licence will prevent the client agent from joining the cluster.

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

Snapshot Agent License Retrieval

The snapshot agent has similar functionality to the client agent for automatically retrieving the license. However, instead of requiring a server agent to talk to, the snapshot agent can request the license from the server or
client agent it would use for all other operations. It still requires an ACL token to authorize the request. Also
like client agents,
 the snapshot agent will shut itself down after being unable to retrieve the license for 5
minutes.

```
/**
* Copyright (c) HashiCorp, Inc.
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*/

.consul-intention-permission-header-list {
 dt::before {
   @extend %with-glyph-icon;
   content: 'H';
 }
}
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

.consul-intention-permission-list {
 .detail > div {
   display: flex;
   width: 100%;
 }
 strong {
   margin-right: 8px;
 }
}
```

```
/**
* Copyright (c) HashiCorp, Inc.
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*/

.consul-intention-permission-list {
 dt::before {
   @extend %with-glyph-icon;
 }
 dl.permission-methods dt::before {
   content: 'M';
 }
 dl.permission-path dt::before {
   content: 'P';
 }
 dl.permission-header dt::before {
   content: 'H';
 }
}
{{!
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}}

{{#if isVisible}}
 <Hds::Alert @type="inline" class='mb-3 mt-2 agentless-node-notice' data-test-node-agentless-notice as |A|>
   <A.Title>
     <span>{{t 'routes.dc.nodes.index.agentless.notice.header'}}</span>
     <Hds::Button
       @color='secondary'
       @text='Dismiss notice'
       {{on 'click' this.dismissAgentlessNotice}}
       @icon='x'
       @size='small'
       @isIconOnly={{true}}
     />
   </A.Title>
   <A.Description>{{t 'routes.dc.nodes.index.agentless.notice.body'}}</A.Description>
   <A.Link::Standalone @href='{{env "CONSUL_DOCS_DEVELOPER_URL"}}/connect/dataplane'
                       @text={{t 'routes.dc.nodes.index.agentless.notice.footer'}}
                       @icon='docs-link'
                       @iconPosition='trailing' />
 </Hds::Alert>
{{/if}}
/*!
* QUnit 2.19.4
* https://qunitjs.com/
*
```

```
* Copyright OpenJS Foundation and other contributors
* Released under the MIT license
* https://jquery.org/license
*/
{{!
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}}

<Hds::Alert @type="inline" class="mb-3 mt-2" as |A|>
 <A.Description>{{t "components.consul.intention.notice.permissions.body"}}</A.Description>
 <A.Link::Standalone
   @text={{t "components.consul.intention.notice.permissions.footer"}}
   @href="{{env 'CONSUL_DOCS_URL'}}/connect/intentions"
   @icon="docs-link"
   @iconPosition="trailing"
   @size="small"
 />
</Hds::Alert>
```

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Parameters

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```
{
 "name": "envoy.filters.http.jwt_authn",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.jwt_authn.v3.JwtAuthentication",
   "providers": {
     "auth0": {
       "issuer": "another-issuer",
       "payloadInMetadata": "jwt_payload_auth0",
       "remoteJwks": {
         "asyncFetch": {
           "fastListener": true
         },
         "httpUri": {
           "cluster": "jwks_cluster_auth0",
           "timeout": "1s",
           "uri": "https://example-auth0.com/.well-known/jwks.json"
         }
       }
     },
     "okta": {
       "issuer": "test-issuer",
       "payloadInMetadata": "jwt_payload_okta",
       "remoteJwks": {
         "asyncFetch": {
           "fastListener": true
         },
         "httpUri": {
           "cluster": "jwks_cluster_okta",
           "timeout": "1s",
```

```
          "uri": "https://example-okta.com/.well-known/jwks.json"
        }
      }
    }
  },
  "rules": [
    {

"match": {
        "prefix": "/"
      },
      "requires": {
        "requiresAll": {
          "requirements": [
            {
              "requiresAny": {
                "requirements": [
                  {
                    "providerName": "okta"
                  },
                  {
                    "allowMissingOrFailed": {}
                  }
                ]
              }
            },
            {
              "requiresAny": {
                "requirements": [
                  {
                    "providerName": "auth0"
                  },
                  {
                    "allowMissingOrFailed": {}
                  }
                ]
              }
            }
          ]
        }
      }
    }
  ]
}
}
{{!
Copyright (c) HashiCorp, Inc.
SPDX-License-Identifier: BUSL-1.1
```

```
}}

<div
 ...attributes
 class="consul-intention-permission-form"
>
<FormGroup
 @name={{name}}
as |group|>

 {{yield (hash
   submit=(action 'submit' changeset)
   reset=(action 'reset' changeset)

   isDirty=(and changeset.isValid)
   changeset=changeset
 )}}

 <fieldset>
   <div data-property="action">
     <span class="label">
       Should this permission allow the source connect to the destination?
     </span>
     <div role="radiogroup" class={{if changeset.error.Action ' has-error'}}>
       {{#each intents as |intent|}}
         <label>
           <span>{{capitalize intent}}</span>
           <input
             type="radio"
             name="Action"
             value={{intent}}
             checked={{if (eq changeset.Action intent) 'checked'}}
             onchange={{action (changeset-set changeset 'Action') value="target.value"}}
           />
         </label>
       {{/each}}
      </div>
   </div>
 </fieldset>

 <fieldset>
   <header>
     <h2>Path</h2>
   </header>
   <div>
       <group.Element
         @name="PathType"
         @type="select"
```

```
      as |el|>
        <el.Label>
          Path type
        </el.Label>
        <PowerSelect
          @options={{pathTypes}}
          @selected={{pathType}}
          @onChange={{action 'change' 'HTTP.PathType' changeset}} as |Type|>
            {{get pathLabels Type}}
        </PowerSelect>
      </group.Element>

{{#if shouldShowPathField}}
      <group.Element
        @name="Path"
        @error={{changeset-get changeset 'error.HTTP.Path'}}
      as |el|>
        <el.Label>
          {{get pathLabels pathType}}
        </el.Label>
        <el.Text
          @value={{changeset-get changeset 'HTTP.Path'}}
          oninput={{action 'change' 'HTTP.Path' changeset}}
        />
        <State @state={{el.state}} @matches="error">
          <el.Error>

            {{#if (eq (changeset-get changeset 'HTTP.Path') 'Regex')}}
              Path Regex should not be blank
            {{else}}
              Path should begin with a '/'
            {{/if}}
          </el.Error>
        </State>
      </group.Element>
{{/if}}

  </div>
 </fieldset>

 <fieldset>
  <h2>Methods</h2>
  <div class="type-toggle">
    <span>All methods are applied by default unless specified</span>
    <group.Element
      @name="allMethods"
    as |el|>
      <el.Checkbox
```

```
        checked={{if allMethods 'checked'}}
        onchange={{action 'change' 'allMethods' changeset}}
      />
      <el.Label>
        All Methods
      </el.Label>
    </group.Element>
  </div>

{{#if shouldShowMethods}}
  <div class="checkbox-group" role="group">
    {{#each methods as |method|}}
      <label class="type-checkbox">
        <input
          type="checkbox"
          name="method"
          value={{method}}

  checked={{if (includes method changeset.HTTP.Methods) 'checked'}}
          onchange={{action 'change' 'method' changeset}}
        />
        <span>{{method}}</span>
      </label>
    {{/each}}
  </div>
{{/if}}
 </fieldset>

 <fieldset>
  <h2>Headers</h2>

  <Consul::Intention::Permission::Header::List
    @items={{changeset-get changeset 'HTTP.Header'}}
    @ondelete={{action 'delete' 'HTTP.Header' changeset}}
  as |headerList|>

  </Consul::Intention::Permission::Header::List>

  <Consul::Intention::Permission::Header::Form
    @onsubmit={{action 'add' 'HTTP.Header' changeset}}
  as |headerForm|>
    <Ref @target={{this}} @name="headerForm" @value={{headerForm}} />
  </Consul::Intention::Permission::Header::Form>

  <Hds::ButtonSet>
    <Hds::Button
      data-test-add-header
      @text='Add{{if (gt (get (changeset-get changeset 'HTTP.Header') 'length') 0) ' another' ''}} header'
```

```
      @color='primary'
      disabled={{if (not this.headerForm.isDirty)
 'disabled'}}
      onclick={{action this.headerForm.submit}}
    />
    <Hds::Button
      @text='Cancel'
      @color='secondary'
      onclick={{action this.headerForm.reset}}
    />
  </Hds::ButtonSet>
 </fieldset>
 </FormGroup>
</div>
```

1.2868 lz4 1.7.2

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1.2869 kubernetes-klog 2.130.1

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1.2870 alexflint-go-filemutex 1.3.0

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1.2872 golang-org-x-exp 0.0.0-20231226003508-02704c960a9b

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1.2873 github.com/cert-manager/cert-manager 1.14.3

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1.2879 stdlib go1.22.4

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lib/erl/src/Makefile.am

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For the aclocal/ax_boost_base.m4 and contrib/fb303/aclocal/ax_boost_base.m4
components:

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#
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For the lib/nodejs/lib/thrift/json_parse.js:

/*

```
   json_parse.js
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*/
(By Douglas Crockford <douglas@crockford.com>)
```

For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
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*/
```

For lib/py/compat/win32/stdint.h

```
// ISO C9x  compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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//
//

Codegen template
 in t_html_generator.h

* Bootstrap v2.0.3
*
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*
* Designed and built with all the love in the world @twitter by @mdo and @fat.

For t_cl_generator.cc

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1.2887 googlecloudgo 0.115.0

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```
// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.34.1
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
```

```
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
```

```
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}
```

```
// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
```

```
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
```

```
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
 0x0b, 0x67,
 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
 0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
 0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
```

```
 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
 0x64,
 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
 0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}
```

```
var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []interface{}{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init()
 }
func file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v interface{}, i int)
interface{} {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []interface{}{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
```

```
  NumEnums:      2,
  NumMessages:   1,
  NumExtensions: 0,
  NumServices:   0,
 },
 GoTypes:          file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
 DependencyIndexes:
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
 EnumInfos:         file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
 MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}

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package compute_test
```

```
import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
```

```
 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
```

```
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
```

```
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.ListLicensesRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
 resp, err := it.Next()
 if err == iterator.Done {
  break
 }
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp

 // If you need to access the underlying RPC response,
 // you can do so by casting the `Response` as below.
 // Otherwise, remove this line. Only populated after
 // first call to Next(). Not safe for concurrent access.
 _ = it.Response.(*computepb.LicensesListResponse)
}
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
```

```
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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```

```
package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
```

```
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"

```
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
```

```
    http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  SetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000
 * time.Millisecond),
  },
 }
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
```

```
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}
```

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use

```
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
```

```
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close();
 err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
```

```
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v",
 "project", url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()
```

```
 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if
err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds
 = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
```

```
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return
 err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
```

```
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return
 err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
```

```
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery
 = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
```

```
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if
err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
  },
 }
 return op, nil
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
```

belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) List(ctx context.Context, req
 *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
  }
  if req != nil && req.MaxResults != nil {
   params.Add("maxResults", fmt.Sprintf("%v",
req.GetMaxResults()))
  }
  if req != nil && req.OrderBy != nil {
   params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
  }
  if req != nil && req.PageToken != nil {
   params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
  }
  if req != nil && req.ReturnPartialSuccess != nil {
   params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
  }

  baseUrl.RawQuery = params.Encode()

  // Build HTTP headers from client and context metadata.
  hds := append(c.xGoogHeaders, "Content-Type", "application/json")
  headers := gax.BuildHeaders(ctx, hds...)
```

```
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if
err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}
```

```
 it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
 it.pageInfo.MaxSize = int(req.GetMaxResults())
 it.pageInfo.Token = req.GetPageToken()

 return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating
 Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers
```

```
  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource
 is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
```

```
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx,
 hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return
 nil, e
 }
```

```
 return resp, nil
}
```

1.2888 gnutls 3.7.9-2+deb12u3

1.2888.1 Available under license :

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// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package fake

import (
 "context"
 "errors"
 "fmt"
 azfake "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake/server"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
 "net/http"
 "net/url"
 "regexp"
)
```

```
// LicensesServer is a fake server for instances of the armhybridcompute.LicensesClient type.
type LicensesServer struct {
 // BeginCreateOrUpdate is the fake for method LicensesClient.BeginCreateOrUpdate
 // HTTP status codes to indicate success:
 http.StatusOK
 BeginCreateOrUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
armhybridcompute.License, options *armhybridcompute.LicensesClientBeginCreateOrUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse], errResp
azfake.ErrorResponder)

 // BeginDelete is the fake for method LicensesClient.BeginDelete
 // HTTP status codes to indicate success: http.StatusOK, http.StatusNoContent
 BeginDelete func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientBeginDeleteOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse], errResp azfake.ErrorResponder)

 // Get is the fake for method LicensesClient.Get
 // HTTP status codes to indicate success: http.StatusOK
 Get func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientGetOptions) (resp
azfake.Responder[armhybridcompute.LicensesClientGetResponse],
 errResp azfake.ErrorResponder)

 // NewListByResourceGroupPager is the fake for method LicensesClient.NewListByResourceGroupPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListByResourceGroupPager func(resourceGroupName string, options
*armhybridcompute.LicensesClientListByResourceGroupOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse])

 // NewListBySubscriptionPager is the fake for method LicensesClient.NewListBySubscriptionPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListBySubscriptionPager func(options *armhybridcompute.LicensesClientListBySubscriptionOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse])

 // BeginUpdate is the fake for method LicensesClient.BeginUpdate
 // HTTP status codes to indicate success: http.StatusOK
 BeginUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
 armhybridcompute.LicenseUpdate, options *armhybridcompute.LicensesClientBeginUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse], errResp azfake.ErrorResponder)

 // BeginValidateLicense is the fake for method LicensesClient.BeginValidateLicense
 // HTTP status codes to indicate success: http.StatusOK
 BeginValidateLicense func(ctx context.Context, parameters armhybridcompute.License, options
*armhybridcompute.LicensesClientBeginValidateLicenseOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse], errResp
azfake.ErrorResponder)
}
```

```
// NewLicensesServerTransport creates a new instance of LicensesServerTransport with the provided
implementation.
// The returned LicensesServerTransport instance is connected to an instance of armhybridcompute.LicensesClient
via the
// azcore.ClientOptions.Transporter field in the client's constructor parameters.
func NewLicensesServerTransport(srv *LicensesServer) *LicensesServerTransport
 {
 return &LicensesServerTransport{
  srv:                    srv,
  beginCreateOrUpdate:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]](),
  beginDelete:              newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]](),
  newListByResourceGroupPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]](),
  newListBySubscriptionPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]](),
  beginUpdate:              newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]](),
  beginValidateLicense:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]](),
 }
}

// LicensesServerTransport connects instances of armhybridcompute.LicensesClient to instances of LicensesServer.
// Don't use this type directly, use NewLicensesServerTransport
 instead.
type LicensesServerTransport struct {
 srv                    *LicensesServer
 beginCreateOrUpdate
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]]
 beginDelete              *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]]
 newListByResourceGroupPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]]
 newListBySubscriptionPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]]
 beginUpdate              *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]]
 beginValidateLicense
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]]
}

// Do implements the policy.Transporter interface for LicensesServerTransport.
func (l *LicensesServerTransport) Do(req *http.Request) (*http.Response, error) {
 rawMethod := req.Context().Value(runtime.CtxAPINameKey{})
 method,
 ok := rawMethod.(string)
 if !ok {
  return nil, nonRetriableError{errors.New("unable to dispatch request, missing value for CtxAPINameKey")}
 }
```

```
 var resp *http.Response
 var err error

 switch method {
 case "LicensesClient.BeginCreateOrUpdate":
  resp, err = l.dispatchBeginCreateOrUpdate(req)
 case "LicensesClient.BeginDelete":
  resp, err = l.dispatchBeginDelete(req)
 case "LicensesClient.Get":
  resp, err = l.dispatchGet(req)
 case "LicensesClient.NewListByResourceGroupPager":
  resp, err = l.dispatchNewListByResourceGroupPager(req)
 case "LicensesClient.NewListBySubscriptionPager":
  resp, err = l.dispatchNewListBySubscriptionPager(req)
 case "LicensesClient.BeginUpdate":
  resp, err = l.dispatchBeginUpdate(req)
 case "LicensesClient.BeginValidateLicense":
  resp, err = l.dispatchBeginValidateLicense(req)
 default:
  err = fmt.Errorf("unhandled API %s", method)
 }

 if err != nil {
  return nil, err
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginCreateOrUpdate(req
 *http.Request) (*http.Response, error) {
 if l.srv.BeginCreateOrUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginCreateOrUpdate not implemented")}
 }
 beginCreateOrUpdate := l.beginCreateOrUpdate.get(req)
 if beginCreateOrUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
  if err != nil {
   return nil, err
```

```
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return
 nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginCreateOrUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body,
nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginCreateOrUpdate = &respr
  l.beginCreateOrUpdate.add(req, beginCreateOrUpdate)
 }

 resp, err := server.PollerResponderNext(beginCreateOrUpdate, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginCreateOrUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginCreateOrUpdate) {
  l.beginCreateOrUpdate.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginDelete(req *http.Request) (*http.Response, error) {
 if l.srv.BeginDelete
 == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginDelete not implemented")}
 }
 beginDelete := l.beginDelete.get(req)
 if beginDelete == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
```

```
 if matches == nil || len(matches) < 3 {
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
  return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.BeginDelete(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
 if
respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 beginDelete = &respr
 l.beginDelete.add(req, beginDelete)
}

resp, err := server.PollerResponderNext(beginDelete, req)
if err != nil {
 return nil, err
}

if !contains([]int{http.StatusOK, http.StatusNoContent}, resp.StatusCode) {
 l.beginDelete.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK,
http.StatusNoContent", resp.StatusCode)}
}
if !server.PollerResponderMore(beginDelete) {
 l.beginDelete.remove(req)
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchGet(req *http.Request) (*http.Response, error) {
if l.srv.Get == nil {
 return nil, &nonRetriableError{errors.New("fake for method Get not implemented")}
}
const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
regex
:= regexp.MustCompile(regexStr)
matches := regex.FindStringSubmatch(req.URL.EscapedPath())
if matches == nil || len(matches) < 3 {
```

```
 return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
  return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.Get(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 respContent := server.GetResponseContent(respr)
 if !contains([]int{http.StatusOK}, respContent.HTTPStatus) {
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
respContent.HTTPStatus)}
 }
 resp, err := server.MarshalResponseAsJSON(respContent,
 server.GetResponse(respr).License, req)
 if err != nil {
  return nil, err
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListByResourceGroupPager(req *http.Request) (*http.Response,
error) {
 if l.srv.NewListByResourceGroupPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListByResourceGroupPager not implemented")}
 }
 newListByResourceGroupPager := l.newListByResourceGroupPager.get(req)
 if newListByResourceGroupPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 2 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if
 err != nil {
   return nil, err
  }
  resp := l.srv.NewListByResourceGroupPager(resourceGroupNameParam, nil)
```

```
  newListByResourceGroupPager = &resp
  l.newListByResourceGroupPager.add(req, newListByResourceGroupPager)
  server.PagerResponderInjectNextLinks(newListByResourceGroupPager, req, func(page
*armhybridcompute.LicensesClientListByResourceGroupResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp, err := server.PagerResponderNext(newListByResourceGroupPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListByResourceGroupPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListByResourceGroupPager) {
  l.newListByResourceGroupPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListBySubscriptionPager(req *http.Request)
 (*http.Response, error) {
 if l.srv.NewListBySubscriptionPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListBySubscriptionPager not implemented")}
 }
 newListBySubscriptionPager := l.newListBySubscriptionPager.get(req)
 if newListBySubscriptionPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 1 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resp := l.srv.NewListBySubscriptionPager(nil)
  newListBySubscriptionPager = &resp
  l.newListBySubscriptionPager.add(req, newListBySubscriptionPager)
  server.PagerResponderInjectNextLinks(newListBySubscriptionPager, req, func(page
*armhybridcompute.LicensesClientListBySubscriptionResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp,
 err := server.PagerResponderNext(newListBySubscriptionPager, req)
 if err != nil {
  return nil, err
```

```
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListBySubscriptionPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListBySubscriptionPager) {
  l.newListBySubscriptionPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginUpdate(req *http.Request) (*http.Response, error) {
 if l.srv.BeginUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginUpdate not implemented")}
 }
 beginUpdate := l.beginUpdate.get(req)
 if beginUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex
 := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.LicenseUpdate](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body, nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginUpdate = &respr
  l.beginUpdate.add(req, beginUpdate)
 }

 resp, err := server.PollerResponderNext(beginUpdate, req)
```

```
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK},
 resp.StatusCode) {
  l.beginUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginUpdate) {
  l.beginUpdate.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginValidateLicense(req *http.Request) (*http.Response, error) {
 if l.srv.BeginValidateLicense == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginValidateLicense not implemented")}
 }
 beginValidateLicense := l.beginValidateLicense.get(req)
 if beginValidateLicense == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/validateLicense`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 1 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body,
 err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginValidateLicense(req.Context(), body, nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginValidateLicense = &respr
  l.beginValidateLicense.add(req, beginValidateLicense)
 }

 resp, err := server.PollerResponderNext(beginValidateLicense, req)
 if err != nil {
  return nil, err
 }
```

```
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginValidateLicense.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginValidateLicense) {
  l.beginValidateLicense.remove(req)
 }

 return resp, nil
}
```

azwebpubsub

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Redmond, WA 98052
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```
//go:build go1.18
// +build go1.18

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```

```
// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package armhybridcompute

import (
 "context"
 "errors"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/arm"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/policy"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "net/http"
 "net/url"
 "strings"
)

// LicensesClient contains the methods for the Licenses group.
// Don't use this type directly, use NewLicensesClient() instead.
type LicensesClient struct {
 internal       *arm.Client
 subscriptionID string
}

// NewLicensesClient creates a new instance of LicensesClient with the specified values.
//   - subscriptionID - The ID of the target
 subscription.
//   - credential - used to authorize requests. Usually a credential from azidentity.
//   - options - pass nil to accept the default values.
func NewLicensesClient(subscriptionID string, credential azcore.TokenCredential, options *arm.ClientOptions)
(*LicensesClient, error) {
 cl, err := arm.NewClient(moduleName, moduleVersion, credential, options)
 if err != nil {
  return nil, err
 }
 client := &LicensesClient{
  subscriptionID: subscriptionID,
  internal:       cl,
 }
 return client, nil
}

// BeginCreateOrUpdate - The operation to create or update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
```

```
//   - parameters - Parameters supplied to the Create license operation.
//   - options - LicensesClientBeginCreateOrUpdateOptions contains the optional parameters
 for the LicensesClient.BeginCreateOrUpdate
//     method.
func (client *LicensesClient) BeginCreateOrUpdate(ctx context.Context, resourceGroupName string, licenseName
string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions)
(*runtime.Poller[LicensesClientCreateOrUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.createOrUpdate(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// CreateOrUpdate - The operation to create or update a license.
// If the
 operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) createOrUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginCreateOrUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.createOrUpdateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
```

```
 }
 return httpResp, nil
}

// createOrUpdateCreateRequest creates
 the CreateOrUpdate request.
func (client *LicensesClient) createOrUpdateCreateRequest(ctx context.Context, resourceGroupName string,
licenseName string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*policy.Request,
error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx,
 http.MethodPut, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginDelete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientBeginDeleteOptions contains the optional parameters for the
LicensesClient.BeginDelete method.
func (client *LicensesClient) BeginDelete(ctx context.Context, resourceGroupName string, licenseName string,
```

```
options *LicensesClientBeginDeleteOptions) (*runtime.Poller[LicensesClientDeleteResponse],
 error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.deleteOperation(ctx, resourceGroupName, licenseName, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// Delete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) deleteOperation(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*http.Response, error) {
 var err error
 const
 operationName = "LicensesClient.BeginDelete"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.deleteCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK, http.StatusNoContent) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// deleteCreateRequest creates the Delete request.
```

```
func (client *LicensesClient) deleteCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientBeginDeleteOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodDelete, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// Get - Retrieves information about the view of a license.
//
 If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientGetOptions contains the optional parameters for the LicensesClient.Get method.
func (client *LicensesClient) Get(ctx context.Context, resourceGroupName string, licenseName string, options
*LicensesClientGetOptions) (LicensesClientGetResponse, error) {
 var err error
 const operationName = "LicensesClient.Get"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.getCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return LicensesClientGetResponse{}, err
 }
```

```
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil
 {
  return LicensesClientGetResponse{}, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return LicensesClientGetResponse{}, err
 }
 resp, err := client.getHandleResponse(httpResp)
 return resp, err
}

// getCreateRequest creates the Get request.
func (client *LicensesClient) getCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientGetOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
 licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// getHandleResponse handles the Get response.
func (client *LicensesClient) getHandleResponse(resp *http.Response) (LicensesClientGetResponse, error) {
 result := LicensesClientGetResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.License); err != nil {
  return LicensesClientGetResponse{}, err
```

```
 }
 return result, nil
}

// NewListByResourceGroupPager - The operation to get all licenses of a non-Azure machine
//
// Generated from
 API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - options - LicensesClientListByResourceGroupOptions contains the optional parameters for the
LicensesClient.NewListByResourceGroupPager
//     method.
func (client *LicensesClient) NewListByResourceGroupPager(resourceGroupName string, options
*LicensesClientListByResourceGroupOptions) *runtime.Pager[LicensesClientListByResourceGroupResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListByResourceGroupResponse]{
  More: func(page LicensesClientListByResourceGroupResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListByResourceGroupResponse)
(LicensesClientListByResourceGroupResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListByResourceGroupPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp,
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listByResourceGroupCreateRequest(ctx, resourceGroupName, options)
   }, nil)
   if err != nil {
    return LicensesClientListByResourceGroupResponse{}, err
   }
   return client.listByResourceGroupHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listByResourceGroupCreateRequest creates the ListByResourceGroup request.
func (client *LicensesClient) listByResourceGroupCreateRequest(ctx context.Context, resourceGroupName string,
options *LicensesClientListByResourceGroupOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es"
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
```

```
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listByResourceGroupHandleResponse handles the ListByResourceGroup response.
func (client *LicensesClient) listByResourceGroupHandleResponse(resp *http.Response)
(LicensesClientListByResourceGroupResponse, error) {
 result := LicensesClientListByResourceGroupResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListByResourceGroupResponse{}, err
 }
 return
 result, nil
}

// NewListBySubscriptionPager - The operation to get all licenses of a non-Azure machine
//
// Generated from API version 2023-06-20-preview
//   - options - LicensesClientListBySubscriptionOptions contains the optional parameters for the
LicensesClient.NewListBySubscriptionPager
//     method.
func (client *LicensesClient) NewListBySubscriptionPager(options *LicensesClientListBySubscriptionOptions)
*runtime.Pager[LicensesClientListBySubscriptionResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListBySubscriptionResponse]{
  More: func(page LicensesClientListBySubscriptionResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListBySubscriptionResponse)
(LicensesClientListBySubscriptionResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListBySubscriptionPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp,
```

```
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listBySubscriptionCreateRequest(ctx, options)
   }, nil)
   if err != nil {
    return LicensesClientListBySubscriptionResponse{}, err
   }
   return client.listBySubscriptionHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listBySubscriptionCreateRequest creates the ListBySubscription request.
func (client *LicensesClient) listBySubscriptionCreateRequest(ctx context.Context, options
*LicensesClientListBySubscriptionOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/licenses"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet,
 runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listBySubscriptionHandleResponse handles the ListBySubscription response.
func (client *LicensesClient) listBySubscriptionHandleResponse(resp *http.Response)
(LicensesClientListBySubscriptionResponse, error) {
 result := LicensesClientListBySubscriptionResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListBySubscriptionResponse{}, err
 }
 return result, nil
}

// BeginUpdate - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
```

```
//   - licenseName
 - The name of the license.
//   - parameters - Parameters supplied to the Update license operation.
//   - options - LicensesClientBeginUpdateOptions contains the optional parameters for the
LicensesClient.BeginUpdate method.
func (client *LicensesClient) BeginUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions)
(*runtime.Poller[LicensesClientUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.update(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientUpdateResponse]{
   Tracer:
 client.internal.Tracer(),
  })
 }
}

// Update - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) update(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.updateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
```

```
 return
 nil, err
 }
 return httpResp, nil
}

// updateCreateRequest creates the Update request.
func (client *LicensesClient) updateCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}",
 url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodPatch, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - parameters - Parameters supplied to the license validation operation.
//   - options - LicensesClientBeginValidateLicenseOptions contains the optional parameters for the
LicensesClient.BeginValidateLicense
//     method.
func (client *LicensesClient) BeginValidateLicense(ctx context.Context, parameters License, options
```

```
*LicensesClientBeginValidateLicenseOptions)
 (*runtime.Poller[LicensesClientValidateLicenseResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.validateLicense(ctx, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientValidateLicenseResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientValidateLicenseResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// ValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) validateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions)
 (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginValidateLicense"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.validateLicenseCreateRequest(ctx, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// validateLicenseCreateRequest creates the ValidateLicense request.
```

```
func (client *LicensesClient) validateLicenseCreateRequest(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/validateLicense"
 if client.subscriptionID
 == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodPost, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}
```

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   SOFTWARE
//go:build go1.18
// +build go1.18

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// Code generated by Microsoft (R) AutoRest Code Generator.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.
// DO NOT EDIT.

package armhybridcompute_test

import (
 "context"
 "log"

 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/azidentity"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
)

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_ValidateLicense.json
func ExampleLicensesClient_BeginValidateLicense() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err !=
 nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginValidateLicense(ctx, armhybridcompute.License{
  Location: to.Ptr("eastus2euap"),
  Properties: &armhybridcompute.LicenseProperties{
   LicenseDetails: &armhybridcompute.LicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
```

```
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err !=
 nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID: to.Ptr("/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/Licenses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](2),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //
    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_CreateOrUpdate.json
func ExampleLicensesClient_BeginCreateOrUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
```

```
clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
if err != nil {
 log.Fatalf("failed to create client: %v", err)
}
poller, err := clientFactory.NewLicensesClient().BeginCreateOrUpdate(ctx, "myResourceGroup",
"{licenseName}", armhybridcompute.License{
 Location: to.Ptr("eastus2euap"),
 Properties: &armhybridcompute.LicenseProperties{
  LicenseDetails: &armhybridcompute.LicenseDetails{
   Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
   Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
   Processors: to.Ptr[int32](6),
   State:      to.Ptr(armhybridcompute.LicenseStateActivated),
   Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
  },
  LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 },
}, nil)
if err != nil {
 log.Fatalf("failed to finish the request: %v", err)
}
res, err := poller.PollUntilDone(ctx, nil)
if err != nil {
 log.Fatalf("failed to pull the result: %v", err)
}
// You could use response here. We use blank identifier for just demo purposes.
_ = res
// If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values
in the output are fake values for just demo purposes.
// res.License = armhybridcompute.License{
//  Name: to.Ptr("{licenseName}"),
//  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
//  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
//  Location: to.Ptr("eastus2euap"),
//  Properties: &armhybridcompute.LicenseProperties{
//   LicenseDetails: &armhybridcompute.LicenseDetails{
//    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
//    AssignedLicenses: to.Ptr[int32](2),
//    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//    ImmutableID: to.Ptr("<generated Guid>"),
//    Processors: to.Ptr[int32](6),
//    State: to.Ptr(armhybridcompute.LicenseStateActivated),
//    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//   },
//   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
```

```
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated
 from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_Update.json
func ExampleLicensesClient_BeginUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginUpdate(ctx, "myResourceGroup", "{licenseName}",
armhybridcompute.LicenseUpdate{
  Properties: &armhybridcompute.LicenseUpdateProperties{
   LicenseDetails: &armhybridcompute.LicenseUpdatePropertiesLicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors:
 to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
```

```
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/licenses/{licenseName}"),
 //
  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_Get.json
func ExampleLicensesClient_Get() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if
 err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 res, err := clientFactory.NewLicensesClient().Get(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows. Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Licenses/{licenseName}"),
```

```
//
 Location: to.Ptr("eastus2euap"),
//  Properties: &armhybridcompute.LicenseProperties{
//   LicenseDetails: &armhybridcompute.LicenseDetails{
//    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
//    AssignedLicenses: to.Ptr[int32](8),
//    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//    ImmutableID: to.Ptr("<generated Guid>"),
//    Processors: to.Ptr[int32](6),
//    State: to.Ptr(armhybridcompute.LicenseStateActivated),
//    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//   },
//   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
//   TenantID: to.Ptr("{tenandId}"),
//  },
// }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_Delete.json
func ExampleLicensesClient_BeginDelete()
 {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginDelete(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 _, err = poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-
preview/examples/license/License_ListByResourceGroup.json
func ExampleLicensesClient_NewListByResourceGroupPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
```

```
 if
 err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListByResourceGroupPager("myResourceGroup", nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
   // You could use page here. We use blank identifier for just demo purposes.
   _ = v
  }
  // If the HTTP response code is 200 as defined in example definition, your page structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
  // page.LicensesListResult = armhybridcompute.LicensesListResult{
  //  Value: []*armhybridcompute.License{
  //   {
  //    Name: to.Ptr("{licenseName}"),
  //
   Type: to.Ptr("Microsoft.HybridCompute/licenses"),
  //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
  //    Location: to.Ptr("eastus2euap"),
  //    Properties: &armhybridcompute.LicenseProperties{
  //     LicenseDetails: &armhybridcompute.LicenseDetails{
  //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
  //      AssignedLicenses: to.Ptr[int32](8),
  //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
  //      ImmutableID: to.Ptr("<generated Guid>"),
  //      Processors: to.Ptr[int32](6),
  //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
  //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
  //     },
  //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  //     TenantID: to.Ptr("{tenandId}"),
  //    },
  //  }},
  // }
 }
}
```

```
// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-
preview/examples/license/License_ListBySubscription.json
func
 ExampleLicensesClient_NewListBySubscriptionPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListBySubscriptionPager(nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
   // You could use page here. We use blank identifier for just demo purposes.
   _ = v
  }
  // If the HTTP response code is 200 as defined in example definition, your page structure would look as
 follows. Please pay attention that all the values in the output are fake values for just demo purposes.
  // page.LicensesListResult = armhybridcompute.LicensesListResult{
  //  Value: []*armhybridcompute.License{
  //   {
  //    Name: to.Ptr("{licenseName}"),
  //    Type: to.Ptr("Microsoft.HybridCompute/licenses"),
  //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
  //    Location: to.Ptr("eastus2euap"),
  //    Properties: &armhybridcompute.LicenseProperties{
  //     LicenseDetails: &armhybridcompute.LicenseDetails{
  //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
  //      AssignedLicenses: to.Ptr[int32](8),
  //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
  //      ImmutableID: to.Ptr("<generated Guid>"),
  //      Processors: to.Ptr[int32](6),
  //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
  //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
  //
```

```
    },
  //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  //     TenantID: to.Ptr("{tenandId}"),
  //    },
  //  }},
  // }
 }
}
```

1.2895 github.com/code-hex/go-generics-cache 1.5.1

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1.2896 org.postgresql:pljava 1.6.7

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CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
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PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
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1.2901 pljava-examples 1.6.7

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1.2903 openssh 8.9p1-3ubuntu0.10

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 *
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 *
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 * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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lib/gssapi/generic/gssapi_err_generic.et

lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
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lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et

kprop/kpropd_rpc.c
kprop/kproplog.c

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c

lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
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lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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lib/libgss/g_export_name.c
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lib/libgss/gssd_pname_to_uid.c
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
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lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c

lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
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lib/libgss/gssd_pname_to_uid.c
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
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lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et

kprop/kpropd_rpc.c
kprop/kproplog.c

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lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
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lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c

lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
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lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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1.2923 cel-go 0.20.1

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==========
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1.2924 logr 1.4.2

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1.2934 github.com/klauspost/cpuid/v2 2.2.8

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1.2936 github.com/leodido/ragel-machinery 0.0.0-20190525184631-5f46317e436b

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1.2937 github.com/expr-lang/expr 1.16.9

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1.2939 luajit 2.1.1710398010

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1.2940 gofuzz 1.2.0

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1.2941 commons-lang3 3.12.0

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1.2942 object-inspect 1.13.2

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1.2943 toml 1.3.2

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1.2944 utils 0.0.0-20230726121419-3b25d923346b

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1.2947 google-golang-org-genproto-googleapis-api 0.0.0-20240701130421-f6361c86f094

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1.2952 tonistiigi-go-csvvalue 0.0.0-20240710180619-ddb21b71c0b4

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-- This SQL script creates the required tables by ch.qos.logback.access.db.DBAppender
--
-- It is intended for Oracle databases.


CREATE SEQUENCE access_event_id_seq MINVALUE 1 START WITH 1;


CREATE TABLE access_event
 (
   timestmp          NUMBER(20) NOT NULL,
   requestURI    VARCHAR(254),
   requestURL        VARCHAR(254),
   remoteHost        VARCHAR(254),
   remoteUser        VARCHAR(254),
   remoteAddr        VARCHAR(254),
   protocol          VARCHAR(254),
   method            VARCHAR(254),
   serverName        VARCHAR(254),
   postContent       VARCHAR(254),
   event_id          NUMBER(20) PRIMARY KEY
 );

-- the / suffix may or may not be needed depending on your SQL Client
--
 Some SQL Clients, e.g. SQuirrel SQL has trouble with the following
-- trigger creation command, while SQLPlus (the basic SQL Client which
-- ships with Oracle) has no trouble at all.

CREATE TRIGGER access_event_id_seq_trig
 BEFORE INSERT ON access_event
 FOR EACH ROW
 BEGIN
   SELECT access_event_id_seq.NEXTVAL
   INTO   :NEW.event_id
   FROM   DUAL;
 END access_event_id_seq_trig;
/

CREATE TABLE access_event_header
```

```
(
  event_id       NUMBER(20) NOT NULL,
  header_key        VARCHAR2(254) NOT NULL,
  header_value      VARCHAR2(1024),
  PRIMARY KEY(event_id, header_key),
  FOREIGN KEY (event_id) REFERENCES access_event(event_id)
);
```

Found in path(s):
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/db/script/oracle.sql
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```
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*
*   or (per the licensee's choosing)
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* under the terms of the GNU Lesser General Public License version 2.1
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*/
```

Found in path(s):
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/jetty/JettyModernServerAdapter.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/net/SSLSocketAppender.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/sift/AccessEventDiscriminator.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/LocalIPAddressConverter.java
*
 /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/spi/Util.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/jetty/RequestLogRegistry.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/net/SimpleSocketServer.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/sift/AppenderFactoryUsingJoran.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/filter/StatsByDay.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-

jar/ch/qos/logback/access/filter/StatsByHour.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/PatternLayoutEncoder.java
*
/opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/RequestURIConverter.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/spi/ServerAdapter.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/servlet/TeeServletOutputStream.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/FullResponseConverter.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/RemoteHostConverter.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/sift/SiftingAppender.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/html/HTMLLayout.java
*
/opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/net/AccessEventPreSerializationTransformer.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/ElapsedTimeConverter.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/net/SocketAppender.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/filter/PeriodicStats.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/filter/CountingFilter.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/spi/AccessEvent.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/sift/SiftAction.java
*
/opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/tomcat/TomcatServerAdapter.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/EnsureLineSeparation.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/NAConverter.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/RemoteUserConverter.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/spi/IAccessEvent.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/joran/action/EvaluatorAction.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/html/DefaultCssBuilder.java

*
/opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/jetty/RequestLogImpl.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/jetty/JettyServerAdapter.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/joran/JoranConfigurator.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/ContentLengthConverter.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/net/server/SSLServerSocketAppender.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/filter/StatisticalViewImpl.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/RemoteIPAddressConverter.java
*
/opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/RequestCookieConverter.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/RequestParameterConverter.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/html/UrlCssBuilder.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/servlet/TeeHttpServletResponse.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/ServerNameConverter.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/joran/action/ConfigurationAction.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/filter/StatsByWeek.java
*
/opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/net/URLEvaluator.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/ViewStatusMessagesServlet.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/net/SMTPAppender.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/StatusCodeConverter.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/RequestMethodConverter.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/RequestProtocolConverter.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/ResponseHeaderConverter.java
*
/opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/FullRequestConverter.java

* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/servlet/TeeServletInputStream.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/PatternLayout.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/filter/StatsByMonth.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/AccessConverter.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/AccessConstants.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/ResponseContentConverter.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/LineSeparatorConverter.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/filter/StatsByMinute.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/boolex/JaninoEventEvaluator.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/servlet/TeeHttpServletRequest.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/servlet/TeeFilter.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/net/SocketNode.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/DateConverter.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/servlet/Util.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/RequestContentConverter.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/RequestHeaderConverter.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/spi/AccessContext.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/tomcat/LogbackValve.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/RequestAttributeConverter.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/LocalPortConverter.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/filter/StatisticalView.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/net/server/ServerSocketAppender.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-

jar/ch/qos/logback/access/pattern/RequestURLConverter.java
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/sift/SiftingJoranConfigurator.java
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```
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--
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-- This SQL script creates the required tables by ch.qos.logback.access.db.DBAppender
--

DROP TABLE access_event_header
DROP TABLE access_event

CREATE TABLE access_event
 (
   timestmp         BIGINT NOT NULL,
   requestURI       VARCHAR(254),
   requestURL       VARCHAR(254),
   remoteHost       VARCHAR(254),
   remoteUser       VARCHAR(254),
   remoteAddr       VARCHAR(254),
   protocol         VARCHAR(254),
   method           VARCHAR(254),
   serverName       VARCHAR(254),
   postContent      VARCHAR(254),
   event_id         INT NOT NULL identity,
   PRIMARY KEY(event_id)
 )

CREATE TABLE access_event_header
 (
   event_id         INT NOT NULL,
   header_key
       VARCHAR(254) NOT NULL,
   header_value     VARCHAR(1024),
   PRIMARY KEY(event_id, header_key),
   FOREIGN KEY (event_id) REFERENCES access_event(event_id)
 )
```

Found in path(s):
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/db/script/msSQLServer.sql
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* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/db/script/mysql.sql
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/db/script/hsqldb.sql
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/db/script/postgresql.sql
* /opt/cola/permits/2110999842_1721704430.7715738/0/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/db/script/db2.sql

1.2955 go-retryablehttp 0.7.7

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1.2956 google.golang.org/genproto/googleapis/rpc 0.0.0-20240701130421-f6361c86f094

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1.2958 github.com/oneofone/xxhash 1.2.8

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1.2963 klog 2.130.1

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Go support for Protocol Buffers - Google's data interchange format

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1.2996 qs 6.13.0

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1.2998 go.opentelemetry.io/contrib/propagators/b3 1.28.0

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1.3002 jaraco-context 5.3.0

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1.3004 jaraco-text 3.12.1

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1.3005 pyyaml 6.0.2

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1.3006 x-oauth2 0.22.0

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1.3007 x-time-rate 0.6.0

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1.3008 typing-extensions 4.12.2

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All
Python releases are Open Source (see https://opensource.org for
the Open Source Definition). Historically, most, but not all, Python

releases have also been GPL-compatible; the table below summarizes
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
because its license has a choice of law clause. According to
CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
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Thanks to the many outside volunteers who have worked under Guido's
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1.3009 github.com/google/cel-go 0.20.1

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==========
The common/types/pb/equal.go modification of proto.Equal logic
==========
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1.3011 kerberos 1.19.2-2ubuntu0.4

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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
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lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
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lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c

lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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1.3012 libkcrypto 1.19.2-2ubuntu0.4

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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
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lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
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lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c

uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c

lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
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lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
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lib/gssapi/mechglue/g_sign.c
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lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c

lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
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lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et

kprop/kpropd_rpc.c
kprop/kproplog.c

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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mgluePP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c

lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
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lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c

lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
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lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c

lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c

lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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1.3019 github.com/google/s2a-go 0.1.8

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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
```

```
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.DeleteLicenseRequest{
 //
TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
}
op, err := c.Delete(ctx, req)
if err != nil {
 // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
 // TODO: Handle error.
}
}

func ExampleLicensesClient_Get() {
ctx := context.Background()
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// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
}
resp,
err := c.Get(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
```

```
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
```

```
 // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*computepb.LicensesListResponse)
 }
}

func
```

```
ExampleLicensesClient_SetIamPolicy() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.SetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
}
resp, err := c.SetIamPolicy(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
ctx := context.Background()
// This snippet has been automatically
generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
```

```
 _ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
```

```
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseCodeRequest{
 // TODO: Fill request
struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseCodeRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
}
resp,
err := c.TestIamPermissions(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.34.2
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
```

```
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}
```

```
// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
```

```
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
```

```
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
```

```
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
 0x0b, 0x67,
 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
```

```
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
0x64,
0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
```

```
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []any{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func
 file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
```

```
  }
 }
}
file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
type x struct{}
out := protoimpl.TypeBuilder{
 File: protoimpl.DescBuilder{
  GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
  RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
  NumEnums:      2,
  NumMessages:   1,
  NumExtensions: 0,
  NumServices:   0,
 },
 GoTypes:          file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
 DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
 EnumInfos:
       file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
 MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
```

```
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
```

```
 GetIamPolicy:
[]gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 Insert: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 List: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 SetIamPolicy: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 TestIamPermissions: []gax.CallOption{
  gax.WithTimeout(600000
* time.Millisecond),
 },
}
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
```

```
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
```

```
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
```

```
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
```

```
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient
 = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
```

```
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
```

```
  return err
 }

 buf,
err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()),
 "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
```

```
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err
 := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
```

```
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and
 context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp);
 err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
```

```
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId",
 fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
```

```
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err !=
 nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a

list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient)
 List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
  }
  if req != nil && req.MaxResults != nil {
   params.Add("maxResults",
fmt.Sprintf("%v", req.GetMaxResults()))
  }
  if req != nil && req.OrderBy != nil {
   params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
  }
  if req != nil && req.PageToken != nil {
   params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
  }
  if req != nil && req.ReturnPartialSuccess != nil {
   params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
  }

  baseUrl.RawQuery = params.Encode()

  // Build HTTP headers from client and context metadata.
  hds := append(c.xGoogHeaders, "Content-Type", "application/json")
  headers := gax.BuildHeaders(ctx, hds...)
  e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
```

```
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return
err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
```

```
 it.pageInfo.MaxSize = int(req.GetMaxResults())
 it.pageInfo.Token = req.GetPageToken()

 return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only
 by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers
```

```
  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on
 the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
```

```
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type",
 "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return
 nil
 }, opts...)
 if e != nil {
  return nil, e
 }
```

```
 return resp, nil
}
```

1.3021 libxml2 2.12.9

1.3021.1 Available under license :

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1.3022 mod 0.20.0

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1.3023 zlib 1.3.0.1

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1.3024 go-yaml v3.0.1

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1.3025 alpine-keys 2.5-r0

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```
# Automatically generated by apkbuild-cpan, template 1
# Contributor: Francesco Colista <francesco.colista@gmail.com>
# Maintainer: Francesco Colista <francesco.colista@gmail.com>
pkgname=perl-software-license
_pkgreal=Software-License
pkgver=0.103004
pkgrel=0
pkgdesc="packages that provide templated software licenses"
url="http://search.cpan.org/dist/Software-License/"
arch="noarch"
license="GPL PerlArtistic"
cpandepends="perl-text-template perl-data-section perl-sub-install"
cpanmakedepends="   "
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/R/RJ/RJBS/$_pkgreal-$pkgver.tar.gz"

_builddir="$srcdir/$_pkgreal-$pkgver"

prepare() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 make && make test
}

package() {
 cd "$_builddir"
 make
 DESTDIR="$pkgdir" install || return 1
 find "$pkgdir" \( -name perllocal.pod -o -name .packlist \) -delete
}

md5sums="0c5fd53d93818566234578b27d667b35  Software-License-0.103004.tar.gz"
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=5
pkgdesc="A library for high-performance 2D graphics"
url="http://www.levien.com/libart/"
arch="all"
```

```
license="LGPL"
depends=
makedepends=
subpackages="$pkgname-dev"
source="http://ftp.gnome.org/pub/GNOME/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
 "

_builddir="$srcdir"/libart_lgpl-$pkgver
build() {
 cd "$_builddir"
 ./configure --prefix=/usr || return 1
 make || return 1
}

package() {
 cd "$_builddir"
 make DESTDIR="$pkgdir" install || return 1
 rm "$pkgdir"/usr/lib/*.la
}

md5sums="08559ff3c67fd95d57b0c5e91a6b4302  libart_lgpl-2.3.21.tar.bz2"
```

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1.3026 prometheus 0.52.1

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Support for streaming Protocol Buffer messages for the Go language (golang).
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DNS library in Go
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1.3027 github.com/moby/sys/userns 0.1.0

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1.3030 masslessparticle-azure-storage-blob-go 0.14.1-0.20240322194317-344980fda573

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go 1.18

require github.com/efficientgo/tools/copyright v0.0.0-20220225185207-fe763185946b
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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
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1.3036 google-golang-org-genproto 0.0.0-20230410155749-daa745c078e1

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1.3042 apm-module-apmot 1.15.0

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1.3043 e2fsprogs 1.46.5-2ubuntu1.2

1.3043.1 Available under license :

This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
 @echo " MKDIR pic"
 @mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:  $(BSD_LIB)

$(BSD_LIB): $(OBJS)
 (cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
 $(MV) pic/$(BSD_LIB) .
 $(RM) -f ../$(BSD_LIB)
 (cd ..; $(LN) $(LINK_BUILD_FLAGS) \
  `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
 @echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
 @$(INSTALL_PROGRAM) $(BSD_LIB) \
  $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
 @-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
 $(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
clean::
 $(RM)
 -rf pic
 $(RM) -f $(BSD_LIB)
 $(RM) -f ../$(BSD_LIB)
```

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This is the Debian GNU/Linux prepackaged version of the translation
files of the EXT2 file system utilities. The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card
<card@masi.ibp.fr>.

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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DAMAGE.
Index: tdbsa/tdb.c
==========
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
 /*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
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    ** NOTE! The following LGPL license applies to the tdb
    ** library. This does NOT imply that all of Samba is released
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Gadi Oxman, August 1995

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Theodore Ts'o
23-June-2007

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system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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This package was put together by Yann Dirson <dirson@debian.org>,
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1.3044 logsave 1.46.5-2ubuntu1.2

1.3044.1 Available under license :

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This is the Debian GNU/Linux prepackaged version of the static EXT2
file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
<card@masi.ibp.fr>.

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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
 @echo " MKDIR pic"
 @mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:  $(BSD_LIB)

$(BSD_LIB): $(OBJS)
 (cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
 $(MV) pic/$(BSD_LIB) .
 $(RM) -f ../$(BSD_LIB)
 (cd ..; $(LN) $(LINK_BUILD_FLAGS) \
  `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
 @echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
 @$(INSTALL_PROGRAM) $(BSD_LIB) \
  $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
 @-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
 $(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
clean::
 $(RM)
 -rf pic
 $(RM) -f $(BSD_LIB)
 $(RM) -f ../$(BSD_LIB)
```

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This is the Debian GNU/Linux prepackaged version of the translation
files of the EXT2 file system utilities. The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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```
Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
 /*
-   Unix SMB/CIFS implementation.
+   trivial database library - standalone version

-   trivial database library - private includes
-
-   Copyright (C) Andrew Tridgell              2005
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Gadi Oxman, August 1995

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Theodore Ts'o
23-June-2007

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This is the Debian GNU/Linux prepackaged version of the EXT2 file
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This is the Debian GNU/Linux prepackaged version of the ss
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This package was put together by Yann Dirson <dirson@debian.org>,
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1.3045 libext2fs2 1.46.5-2ubuntu1.2

1.3045.1 Available under license :

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This is the Debian GNU/Linux prepackaged version of the static EXT2
file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
<card@masi.ibp.fr>.

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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
 @echo " MKDIR pic"
 @mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:  $(BSD_LIB)

$(BSD_LIB): $(OBJS)
 (cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
 $(MV) pic/$(BSD_LIB) .
 $(RM) -f ../$(BSD_LIB)
 (cd ..; $(LN) $(LINK_BUILD_FLAGS) \
  `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
 @echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
 @$(INSTALL_PROGRAM) $(BSD_LIB) \
  $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
 @-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
 $(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
clean::
 $(RM)
 -rf pic
 $(RM) -f $(BSD_LIB)
 $(RM) -f ../$(BSD_LIB)
```

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files of the EXT2 file system utilities. The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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```
Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
 /*
-   Unix SMB/CIFS implementation.
+   trivial database library - standalone version

-   trivial database library - private includes
-
-   Copyright (C) Andrew Tridgell              2005
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    ** library. This does NOT imply that all of Samba is released
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Gadi Oxman, August 1995

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Theodore Ts'o
23-June-2007

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That's all there is to it!
This is the Debian GNU/Linux prepackaged version of the EXT2 file
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This is the Debian GNU/Linux prepackaged version of the ss
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This package was put together by Yann Dirson <dirson@debian.org>,
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1.3046 libss 1.46.5-2ubuntu1.2

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This package was added to the e2fsprogs debian source package by
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This is the Debian GNU/Linux prepackaged version of the static EXT2
file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
<card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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```
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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
 @echo " MKDIR pic"
 @mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:  $(BSD_LIB)

$(BSD_LIB): $(OBJS)
 (cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
 $(MV) pic/$(BSD_LIB) .
 $(RM) -f ../$(BSD_LIB)
 (cd ..; $(LN) $(LINK_BUILD_FLAGS) \
  `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
 @echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
 @$(INSTALL_PROGRAM) $(BSD_LIB) \
  $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
 @-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
 $(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
clean::
 $(RM)
 -rf pic
 $(RM) -f $(BSD_LIB)
 $(RM) -f ../$(BSD_LIB)
```

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files of the EXT2 file system utilities. The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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```
Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
 /*
-   Unix SMB/CIFS implementation.
+   trivial database library - standalone version

-   trivial database library - private includes
-
-   Copyright (C) Andrew Tridgell              2005
+   Copyright (C) Andrew Tridgell              1999-2005
+   Copyright (C) Jeremy Allison               2000-2006
+   Copyright (C) Paul `Rusty' Russell         2000

    ** NOTE! The following LGPL license applies to the tdb
    ** library. This does NOT imply that all of Samba is released
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Gadi Oxman, August 1995

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Theodore Ts'o
23-June-2007

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That's all there is to it!
This is the Debian GNU/Linux prepackaged version of the EXT2 file
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This package was put together by Yann Dirson <dirson@debian.org>,
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This is the Debian GNU/Linux prepackaged version of the static EXT2
file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
<card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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```
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Public License can be found in `/usr/share/common-licenses/GPL-2'.
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
 @echo " MKDIR pic"
 @mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:  $(BSD_LIB)

$(BSD_LIB): $(OBJS)
 (cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
 $(MV) pic/$(BSD_LIB) .
 $(RM) -f ../$(BSD_LIB)
 (cd ..; $(LN) $(LINK_BUILD_FLAGS) \
  `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
 @echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
 @$(INSTALL_PROGRAM) $(BSD_LIB) \
  $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
 @-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
 $(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
clean::
 $(RM)
 -rf pic
 $(RM) -f $(BSD_LIB)
 $(RM) -f ../$(BSD_LIB)
```

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This is the Debian GNU/Linux prepackaged version of the translation
files of the EXT2 file system utilities. The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card
<card@masi.ibp.fr>.

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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Index: tdbsa/tdb.c
==========
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
 /*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
+ Copyright (C) Andrew Tridgell 1999-2005
+ Copyright (C) Jeremy Allison 2000-2006
+ Copyright (C) Paul `Rusty' Russell 2000

    ** NOTE! The following LGPL license applies to the tdb
    ** library. This does NOT imply that all of Samba is released
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Gadi Oxman, August 1995

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Theodore Ts'o
23-June-2007

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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes

2.2 and above 2.1.1 2001-now
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1.3050 kubernetes-client 0.31.0

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Support for streaming Protocol Buffer messages for the Go language (golang).
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1.3052 cpuid 2.2.5

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1.3059 logrus 1.9.3

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1.3062 xstrings 1.3.2

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1.3064 golang-snappy 0.0.4

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1.3065 go-rootcerts 1.0.2

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1.3073 grpc-go 1.65.0

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1.3074 gax-go 2.13.0

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1.3075 google-api-go-client 0.189.0

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 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 10.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //              License Identifier assigned
 ExtractedText string `json:"extractedText"`
```

```
// 10.3: License Name: single line of text or "NOASSERTION"
// Cardinality: conditional (mandatory, one) if license is not
//             on SPDX License List
LicenseName string `json:"name,omitempty"`

// 10.4: License Cross Reference
// Cardinality: conditional (optional, one or many) if license
//             is not on SPDX License List
LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

//
10.5: License Comment
// Cardinality: optional, one
LicenseComment string `json:"comment,omitempty"`
}
```

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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type OtherLicense struct {
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 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 6.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //              License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 6.3: License Name: single line of text or "NOASSERTION"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseName string `json:"name,omitempty"`

 // 6.4: License Cross Reference
 // Cardinality: conditional (optional, one or many) if license
 //              is not on SPDX License List
 LicenseCrossReferences []string `json:"seeAlsos,omitempty"`
```

// 6.5:
License Comment
// Cardinality: optional, one
LicenseComment string `json:"comment,omitempty"`
}
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 LicenseIdentifier string `json:"licenseId"`

 // 10.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //		License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 10.3: License Name: single line of text or "NOASSERTION"
 // Cardinality: conditional (mandatory, one) if license is not
 //		on SPDX License List
 LicenseName string `json:"name,omitempty"`

 // 10.4: License Cross Reference
 // Cardinality: conditional (optional, one or many) if license
 //		is not on SPDX License List

LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

// 10.5: License Comment
// Cardinality:
optional, one
LicenseComment string `json:"comment,omitempty"`
}
procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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parts of src/rdfnv1a.c: http://www.isthe.com/chongo/src/fnv/hash_32a.c

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* Version 1.1 1 Aug 2013 Mark Adler
*/

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Mark Adler
madler@alumni.caltech.edu
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```
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  include "stdint.h"
  include "stdbool.h"
  include "unistd.h"

  untrusted {
    int ocall_open([in, string]const char *pathname, int flags,
                   bool has_mode, unsigned mode);
    int ocall_openat(int dirfd,
                     [in, string]const char *pathname, int flags,
                     bool has_mode, unsigned mode);
    int ocall_close(int fd);
    ssize_t ocall_read(int fd, [out, size=read_size]void *buf,
                       size_t read_size);
    off_t ocall_lseek(int fd, off_t offset, int whence);
    int ocall_ftruncate(int fd, off_t length);
    int ocall_fsync(int fd);
    int ocall_fdatasync(int fd);
    int ocall_isatty(int fd);
    void ocall_fdopendir(int fd, [out]void **p_dirp);
    /* implementation related to multiple thread */
    void *ocall_readdir([user_check]void
 *dirp);
    void ocall_rewinddir([user_check]void *dirp);
    void ocall_seekdir([user_check]void *dirp, long loc);
    long ocall_telldir([user_check]void *dirp);
    int ocall_closedir([user_check]void *dirp);

    int ocall_stat([in, string]const char *pathname,
                   [out, size=buf_len]void *buf,
                   unsigned int buf_len);
    int ocall_fstat(int fd, [out, size=buf_len]void *buf,
                    unsigned int buf_len);
    int ocall_fstatat(int dirfd, [in, string]const char *pathname,
                      [out, size=buf_len]void *buf,
                      unsigned int buf_len, int flags);

    int ocall_mkdirat(int dirfd, [in, string]const char *pathname,
                      unsigned mode);
    int ocall_link([in, string] const char *oldpath,
```

```
                [in, string] const char *newpath);
    int ocall_linkat(int olddirfd, [in, string]const char
*oldpath,
                int newdirfd, [in, string]const char *newpath,
                int flags);
    int ocall_unlinkat(int dirfd, [in, string]const char *pathname,
                int flags);
    ssize_t ocall_readlink([in, string]const char *pathname,
                [out, size=bufsiz]char *buf,
                size_t bufsiz);
    ssize_t ocall_readlinkat(int dirfd,
                [in, string]const char *pathname,
                [out, size=bufsiz]char *buf,
                size_t bufsiz);
    int ocall_renameat(int olddirfd,
                [in, string]const char *oldpath,
                int newdirfd,
                [in, string]const char *newpath);
    int ocall_symlinkat([in ,string]const char *target,
                int newdirfd,
                [in, string]const char *linkpath);


   int ocall_ioctl(int fd, unsigned long request,
                [out, size=arg_len]void *arg,
                unsigned int arg_len);
    int ocall_fcntl(int fd, int cmd);
    int ocall_fcntl_long(int fd, int cmd, long arg);

    int ocall_realpath([in, string]const char *path,
                [out, size=buf_len]char *buf,
                unsigned int buf_len);
    int ocall_posix_fallocate(int fd, off_t offset, off_t len);
    int ocall_poll([in, out, size=fds_len]void *fds, unsigned nfds,
                int timeout, unsigned int fds_len);

    int ocall_getopt(int argc,
                [in, size=argv_buf_len]char *argv_buf,
                unsigned int argv_buf_len,
                [in, string]const char *optstring);
    ssize_t ocall_readv(int fd,
                [in, out, size=buf_size]char *iov_buf,
                unsigned int buf_size, int iovcnt,

                bool has_offset, off_t offset);
    ssize_t ocall_writev(int fd,
                [in, size=buf_size]char *iov_buf,
                unsigned int buf_size, int iovcnt,
```

```
                    bool has_offset, off_t offset);

    /* time clock */
    int ocall_clock_gettime(unsigned clock_id,
                     [out, size=tp_buf_size]void *tp_buf,
                     unsigned int tp_buf_size);
    int ocall_clock_getres(int clock_id,
                    [out, size=res_buf_size]void *res_buf,
                    unsigned int res_buf_size);
    int ocall_utimensat(int dirfd, [in, string]const char *pathname,
                   [in, size=times_buf_size]const void *times_buf,
                   unsigned int times_buf_size, int flags);
    int ocall_futimens(int fd, [in, size=times_buf_size]const void *times_buf,
                  unsigned int times_buf_size);
     int ocall_clock_nanosleep(unsigned clock_id, int flags,
                       [in, size=req_buf_size]const void *req_buf,
                       unsigned int req_buf_size,
                       [out, size=rem_buf_size]void *rem_buf,
                       unsigned int rem_buf_size);

    int ocall_raise(int sig);

    int ocall_sched_yield();

    int ocall_pthread_rwlock_init([out]void **rwlock, [user_check]void *attr);
    int ocall_pthread_rwlock_destroy([user_check]void *rwlock);
    int ocall_pthread_rwlock_rdlock([user_check]void *rwlock);
    int ocall_pthread_rwlock_wrlock([user_check]void *rwlock);
    int ocall_pthread_rwlock_unlock([user_check]void *rwlock);

    int ocall_get_errno();

    /* sockets */
    int ocall_accept(int sockfd, [in, size=addr_size]void *addr,
            [in, size=4] uint32_t *addrlen, uint32_t addr_size);
    int ocall_bind(int sockfd,
[in, size=addrlen]const void *addr,
            uint32_t addrlen);
    int ocall_connect(int sockfd, [in, size=addrlen]void *addr, uint32_t addrlen);
    int ocall_getsockname(int sockfd, [out, size=addr_size]void *addr,
                     [in, out, size=4]uint32_t *addrlen, uint32_t addr_size);
    int ocall_getpeername(int sockfd, [out, size=addr_size]void *addr,
                     [in, out, size=4]uint32_t *addrlen, uint32_t addr_size);
    int ocall_getsockopt(int sockfd, int level, int optname,
                    [out, size=val_buf_size]void *val_buf,
                    unsigned int val_buf_size,
                    [in, out, size=4]void *len_buf);
    int ocall_listen(int sockfd, int backlog);
```

```
    int ocall_recv(int sockfd, [out, size=len]void *buf, size_t len, int flags);
    ssize_t ocall_recvfrom(int sockfd, [out, size=len]void *buf, size_t len, int flags,
                           [out,
 size=addr_size]void *src_addr,
                           [in, out, size=4]uint32_t *addrlen, uint32_t addr_size);
    ssize_t ocall_recvmsg(int sockfd,
                          [in, out, size=msg_buf_size]void *msg_buf,
                          unsigned int msg_buf_size,
                          int flags);
    int ocall_send(int sockfd, [in, size=len]const void *buf, size_t len, int flags);
    ssize_t ocall_sendto(int sockfd, [in, size=len]const void *buf, size_t len, int flags,
                         [in, size=addrlen]void *dest_addr, uint32_t addrlen);
    ssize_t ocall_sendmsg(int sockfd,
                          [in, size=msg_buf_size]void *msg_buf,
                          unsigned int msg_buf_size,
                          int flags);
    int ocall_setsockopt(int sockfd, int level, int optname,
                         [in, size=optlen]void *optval,
                         unsigned int optlen);
    int
 ocall_shutdown(int sockfd, int how);
    int ocall_socket(int domain, int type, int protocol);
  };
};
##########################################################################
# LICENSE.snappy covers files: snappy.c, snappy.h, snappy_compat.h   #
# originally retrieved from http://github.com/andikleen/snappy-c     #
# git revision 8015f2d28739b9a6076ebaa6c53fe27bc238d219              #
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```

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parts of src/rdmurmur2.c: git@github.com:abrandoned/murmur2.git

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1.3094 google.golang.org/genproto/googleapis/rpc 0.0.0-20240814211410-ddb44dafa142

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1.3101 x-net 0.29.0

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1.3102 x-text 0.18.0

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1.3103 runc 1.1.14

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1.3108 apache-http-server 2.4.52-1ubuntu4.12

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var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
(function(w, d) {
  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
      d.write(' <\/div>');
      var s = d.createElement('script');
      s.type = 'text/javascript';
      s.async = true;
      s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' +
comments_identifier;
       (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
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/**
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

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1.3126 apt-utils 2.4.13

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1.3128 x-oauth2 0.23.0

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1.3129 grpc-go 1.66.0

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1.3130 scaleway-sdk-go 1.0.0-beta.30

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1.3136 python3.10 3.10.12-1~22.04.6

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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Mersenne Twister

The `_random' module includes code based on a download from
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following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
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Sockets

The `socket' module uses the functions, `getaddrinfo', and
`getnameinfo',
which are coded in separate source files from the WIDE
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
  between ascii and binary. This results in a 1000-fold speedup. The C
  version is still 5 times faster, though.
- Arguments more compliant with python standard

XML Remote Procedure Calls

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==========

A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called
ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
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2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
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Mersenne Twister

The `_random' module includes code based on a download from
`http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html'. The
following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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http://www.math.keio.ac.jp/matumoto/emt.html
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Sockets

The `socket' module uses the functions, `getaddrinfo', and
`getnameinfo',
which are coded in separate source files from the WIDE
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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with python standard

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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1.3147 libmemcached 1.0.18-4.2ubuntu4

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1.3149 sys-mount 0.3.4

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.3152 grpc-gateway 2.22.0

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03e4897d97c50595372db8edf19853f8

1.3153 metrics-logback 4.2.23

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.logback
Build-Jdk-Spec: 17
Bundle-Description: An instrumented appender for Logback.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Integration for Logback
Bundle-SymbolicName: io.dropwizard.metrics.logback
Bundle-Version: 4.2.23
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.logback;uses:="ch.qos.logback.cla
ssic.spi,ch.qos.logback.core,com.codahale.metrics";version="4.2.23"
Implementation-Title: Metrics Integration for Logback
Implementation-Version: 4.2.23
Import-Package: ch.qos.logback.classic;version="[1.2,2)",ch.qos.logbac
k.classic.spi;version="[1.2,2)",ch.qos.logback.core;version="[1.2,2)"
,com.codahale.metrics;version="[4.2,5)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
*
/opt/cola/permits/2193065741_1727077087.2843342/0/metrics-logback-4-2-23-jar/META-INF/MANIFEST.MF

1.3154 metrics-caffeine 4.2.23

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.caffeine
Build-Jdk-Spec: 17
Bundle-Description: Metrics Integration for Caffeine 2.x.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Integration for Caffeine 2.x
Bundle-SymbolicName: io.dropwizard.metrics.caffeine
Bundle-Version: 4.2.23
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.caffeine;uses:="com.codahale.metr

ics,com.github.benmanes.caffeine.cache,com.github.benmanes.caffeine.c
ache.stats,org.checkerframework.checker.index.qual";version="4.2.23"
Implementation-Title: Metrics Integration for Caffeine 2.x
Implementation-Version: 4.2.23
Import-Package: com.codahale.metrics;version="[4.2,5)",com.github.benm
anes.caffeine.cache;version="[2.9,3)",com.github.benmanes.caffeine.ca
che.stats;version="[2.9,3)",org.checkerframework.checker.index.qual;v
ersion="[3.41,4)"
Require-Capability:
 osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /opt/cola/permits/2193065734_1727077075.1891162/0/metrics-caffeine-4-2-23-jar/META-INF/MANIFEST.MF

1.3155 metrics-jetty 4.2.23

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.jetty9
Build-Jdk-Spec: 17
Bundle-Description: A set of extensions for Jetty 9.3 and higher which
 provide instrumentation of thread pools, connector metrics, a
nd application latency and utilization.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Integration for Jetty 9.3 and higher
Bundle-SymbolicName: io.dropwizard.metrics.jetty9
Bundle-Version: 4.2.23
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.jetty9;uses:="com.codahale.metric
s,com.codahale.metrics.annotation,javax.servlet,javax.servlet.http,or
g.eclipse.jetty.io,org.eclipse.jetty.server,org.eclipse.jetty.server.
handler,org.eclipse.jetty.util.annotation,org.eclipse.jetty.util.comp
onent,org.eclipse.jetty.util.thread";version="4.2.23"
Implementation-Title: Metrics Integration for Jetty
 9.3 and higher
Implementation-Version: 4.2.23
Import-Package: javax.servlet;version="[2.5.0,4.0.0)",javax.servlet.ht
tp;version="[2.5.0,4.0.0)",com.codahale.metrics;version="[4.2,5)",com
.codahale.metrics.annotation;version="[4.2,5)",org.eclipse.jetty.http
;version="[9.4,10)",org.eclipse.jetty.io;version="[9.4,10)",org.eclip
se.jetty.server;version="[9.4,10)",org.eclipse.jetty.server.handler;v
ersion="[9.4,10)",org.eclipse.jetty.util.annotation;version="[9.4,10)
",org.eclipse.jetty.util.component;version="[9.4,10)",org.eclipse.jet

ty.util.thread;version="[9.4,10)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /opt/cola/permits/2193065776_1727077073.3883557/0/metrics-jetty9-4-2-23-jar/META-INF/MANIFEST.MF

1.3156 metrics-jersey2 4.2.23

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.jersey2
Build-Jdk-Spec: 17
Bundle-Description: A set of class providing Metrics integration for J
ersey, the reference JAX-RS implementation.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Integration for Jersey 2.x
Bundle-SymbolicName: io.dropwizard.metrics.jersey2
Bundle-Version: 4.2.23
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.jersey2;uses:="com.codahale.metri
cs,javax.ws.rs.core,javax.ws.rs.ext,org.glassfish.jersey.server.model
,org.glassfish.jersey.server.monitoring";version="4.2.23"
Implementation-Title: Metrics Integration for Jersey 2.x
Implementation-Version: 4.2.23
Import-Package: com.codahale.metrics;version="[4.2,5)",com.codahale.me
trics.annotation;version="[4.2,5)",javax.ws.rs.core;version="[2.1,3)"
,javax.ws.rs.ext;version="[2.1,3)",org.glassfish.jersey.server;versio
n="[2.41,3)",org.glassfish.jersey.server.model;version="[2.41,3)",org
.glassfish.jersey.server.monitoring;version="[2.41,3)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /opt/cola/permits/2193065678_1727077097.4474654/0/metrics-jersey2-4-2-23-jar/META-INF/MANIFEST.MF

1.3157 metrics-servlets 4.2.23

1.3157.1 Available under license :

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.servlets

Build-Jdk-Spec: 17
Bundle-Description: A set of utility servlets for Metrics, allowing yo
u to expose valuable information about your production environ
ment.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Utility Servlets
Bundle-SymbolicName: io.dropwizard.metrics.servlets
Bundle-Version: 4.2.23
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.servlets;uses:="com.codahale.metr
ics,com.codahale.metrics.health,com.fasterxml.jackson.databind,javax.
servlet,javax.servlet.http";version="4.2.23"
Implementation-Title: Metrics Utility Servlets
Implementation-Version: 4.2.23
Import-Package: javax.servlet;version="[2.5.0,4.0.0)",javax.servlet.ht
tp;version="[2.5.0,4.0.0)",com.codahale.metrics;version="[4.2,5)",com
.codahale.metrics.health;version="[4.2,5)",com.codahale.metrics.json;
 version="[4.2,5)",com.codahale.metrics.jvm;version="[4.2,5)",com.fast
erxml.jackson.databind;version="[2.12,3)",com.fasterxml.jackson.datab
ind.util;version="[2.12,3)",com.papertrail.profiler;version="[1.1,2)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /opt/cola/permits/2193065790_1727077120.2397947/0/metrics-servlets-4-2-23-jar/META-INF/MANIFEST.MF

1.3158 body-parser 1.20.3

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1.3159 serve-static 1.16.2

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1.3160 google-api-go-client 0.155.0

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1.3161 libosinfo 1.8.0-1

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1.3167 x-sys 0.24.0

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1.3168 runc 1.1.14

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o MISC checker redesign
o Scheduler framework extension to support
child process handling.
o Daemon framework extension to block SIGCHLD
to only receive it when its unblocked in the
scheduling select loop.

Jeremy Rumpf, <rumpf.6@osu.edu> :
o Added SMTP checker

Chris Caputo, <ccaputo@alt.net> :
o Added dont_track_primary, nopreempt,
preempt_delay, and misc_dynamic.

Kevin Lindsay, <kevinl@netnation.com> :
o Fixed shadowed declaration reported by -Wshadow.
o Redesigned signal handling.

Nick Couchman, <nick.couchman at seakr.com> :

o Patch for u_threshold and l_threshold support.

Willy Tarreau, <w at 1wt.eu> :
o Extended VRRP framework to support floating
priority.

1.3170 libvirt-python 8.0.0-1build1

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```
module _ // Auto generated by https://github.com/bwplotka/bingo. DO NOT EDIT

go 1.19

require github.com/efficientgo/tools/copyright v0.0.0-20220817170617-6c25e3b627dd
```

1.3173 grafana-pyroscope-go-godeltaprof 0.1.8

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1.3174 libxml2 2.9.11-13.ph3

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package compute_test

import (
 "context"
```

```
 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
```

```
 // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
```

```
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
```

```
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*computepb.LicensesListResponse)
 }
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
```

```
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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package compute_test

import (
```

```
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
```

```
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
// protoc-gen-go v1.34.2
// protoc   v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (

```
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)
```

```
func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
```

```
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":           1,
  "WRITER":          2,
  "READER":          3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
```

```
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}
```

```
func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}
```

```
var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
 0x0b, 0x67,
 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
 0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
 0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
```

```
 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
 0x64,
 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
 0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []any{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
```

```
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func
 file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:           file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:
         file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
```

```
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
// Copyright 2024 Google LLC
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//     https://www.apache.org/licenses/LICENSE-2.0
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
```

```
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
```

```
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  SetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000
 * time.Millisecond),
  },
 }
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}
```

```
// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
```

```
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
```

```
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
```

```
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient
 = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
```

```
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf,
 err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
```

```
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()),
 "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
```

```
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err
 := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and
 context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
```

```
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp);
 err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
```

```
jsonReq, err := m.Marshal(body)
if err != nil {
 return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.RequestId != nil {
 params.Add("requestId",
fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err !=
nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
```

```
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient)
 List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
```

```
 return nil, "", err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.Filter != nil {
 params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
}
if req != nil && req.MaxResults != nil {
 params.Add("maxResults",
fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
 params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
 params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
 params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return
err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }
```

```
  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only
 by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
```

```
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
```

```
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on
 the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type",
 "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
```

```
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return
nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}
```

1.3179 google-golang-org-api 0.189.0

1.3179.1 Available under license :

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```

```
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#
# The CLA can be filled out on the web:
#
#     https://cla.developers.google.com/
#
# When adding J Random Contributor's name to this file,
# either J's name or J's organization's name should be
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 individual or corporate CLA was used.

# Names should be added to this file like so:
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#
# An entry with two email addresses specifies that the
# first address should be used in the submit logs and
# that the second address should be recognized as the
# same person when interacting with Rietveld.

# Please keep the list sorted.

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```

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1.3180 googlecloudgostorage 1.43.0

1.3180.1 Available under license :

```
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
```

```
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}
```

```
func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
```

```
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
```

```
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*computepb.LicensesListResponse)
 }
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

```
func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
```

```
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
```

```
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseCodeRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
}
resp,
err := c.TestIamPermissions(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

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```
// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.34.2
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"
```

```
 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
```

```
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
```

```
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
```

```
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
```

```
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor
```

```
var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
 0x0b, 0x67,
 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
 0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
 0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
```

```
 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
 0x64,
 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
 0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []any{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
```

```
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func
 file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:           file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:
         file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
```

```
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
// Copyright 2024 Google LLC
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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete          []gax.CallOption
```

```
 Get              []gax.CallOption
 GetIamPolicy       []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy       []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
[]gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
```

```
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  SetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000
 * time.Millisecond),
  },
 }
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.
```

```
// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
```

```
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}
```

```
// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
```

```
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient
 = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
url.QueryEscape(req.GetLicense()))}
```

```
hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf,
err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
```

```
  },
 }
 return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()),
 "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
```

```
  if err != nil {
   return err
  }

  if err
 := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and
 context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
```

```
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp);
 err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
```

```
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.RequestId != nil {
 params.Add("requestId",
fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err !=
nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
```

```
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient)
 List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())
```

```
 params := url.Values{}
 if req != nil && req.Filter != nil {
  params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
 }
 if req != nil && req.MaxResults != nil {
  params.Add("maxResults",
fmt.Sprintf("%v", req.GetMaxResults()))
 }
 if req != nil && req.OrderBy != nil {
  params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req != nil && req.PageToken != nil {
  params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return
err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
```

```
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only
 by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
```

```
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
```

```
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on
 the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type",
 "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers
```

```
 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return
nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}
```

1.3181 grpc-go v1.59.0

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1.3182 thanos v0.32.4

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
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1.6.1	1.6	2001	CNRI	yes (2)
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Mersenne Twister

The `_random' module includes code based on a download from
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following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
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Sockets

The `socket' module uses the functions, `getaddrinfo', and
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1.3187 easyjson 0.7.7

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1.3190 package-json-from-dist 1.0.1

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1.3192 gopd 1.0.1

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1.3195 apache2-data 2.4.52-1ubuntu4.12

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var comments_shortname = 'httpd';
var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';

```
(function(w, d) {
  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
      d.write('<div id="comments_thread"><\/div>');
      var s = d.createElement('script');
      s.type = 'text/javascript';
      s.async = true;
      s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' +
comments_identifier;
       (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
  }
  else {
      d.write('<div id="comments_thread">Comments are disabled for this page at the moment.<\/div>');
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  prettyPrint();
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```

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```
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* httpd@ncsa.uiuc.edu
*
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Mike Belshe (mbelshe@netscape.com)
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```
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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From dso/aix/dso.c:

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From strings/apr_strnatcmp.c,

include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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strings/apr_snprintf.c:

*
* cvt - IEEE floating point formatting routines.
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<script src="./style/scripts/prettify.min.js" type="text/javascript">
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var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
(function(w, d) {
  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
    d.write(' \/div>');
    var s = d.createElement('script');
    s.type = 'text/javascript';
    s.async = true;
    s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' +
comments_identifier;
     (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
  }
  else {
    d.write(' Comments are disabled for this page at the moment.<\/div>');
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href="./sitemap.html">Sitemap <script type="text/javascript"><!--//--><![CDATA[//><!--
if (typeof(prettyPrint) !== 'undefined') {
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```
/*****************************************************************************
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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 *
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

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Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)

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1.3199 xz 5.6.3-r0

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1.3200 bash 5.2.37-r0

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1.3206 protobuf 1.28.1

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1.3207 postcss-selector-parser 6.1.2

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1.3212 prometheus-common 0.60.0

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1.3214 github.com/rubenv/sql-migrate 1.7.0

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1.3215 fluxcd-flux2 v2.2.3

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1.3216 cert-manager-cmctl v2.0.0

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

1.3218 libpsl 0.21.5-r3

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1.3219 tar 7.4.3

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1.3220 ldap-utils 2.5.18+dfsg-0ubuntu0.22.04.2

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1.3223 x-sys 0.26.0

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1.3224 x-crypto 0.28.0

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1.3226 jsonschema-specifications 2024.10.1

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1.3227 protobuf 1.35.1

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1.3228 cookie 0.7.1

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1.3230 x-text 0.19.0

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package notify

import (

```
 "fmt"
 "strings"
)

// FilePermission is a bit-mask of apparmor permissions in relation to files.
// It is applicable to messages with the class of AA_CLASS_FILE.
type FilePermission uint32

const (
 // AA_MAY_EXEC implies that a process has a permission to execute another
 // program. The specific details of the program are not conveyed.
 AA_MAY_EXEC FilePermission = 1 << iota
 // AA_MAY_WRITE implies that a process may write to a file or socket, or
 // may modify directory contents.
 AA_MAY_WRITE
 // AA_MAY_READ implies that a process may read from a file or socket, or
 // may enumerate directory contents.
 AA_MAY_READ
 // AA_MAY_APPEND implies that a process may open a file in append mode.
 AA_MAY_APPEND
 // AA_MAY_CREATE implies that a process may create a new file.
 AA_MAY_CREATE
 // AA_MAY_DELETE implies that a process may delete a file, directory,
 // symbolic link or socket.
 AA_MAY_DELETE
 // AA_MAY_OPEN implies that a process may open a file or directory.
 The
 // additional presence of AA_MAY_WRITE or AA_MAY_READ grants specific type
 // of access.
 AA_MAY_OPEN
 // AA_MAY_RENAME implies that a process may rename a file.
 AA_MAY_RENAME
 // AA_MAY_SETATTR is not checked by the kernel.
 AA_MAY_SETATTR
 // AA_MAY_GETATTR is not checked by the kernel.
 AA_MAY_GETATTR
 // AA_MAY_SETCRED is not used in the kernel.
 AA_MAY_SETCRED
 // AA_MAY_GETCRED is not used in the kernel.
 AA_MAY_GETCRED
 // AA_MAY_CHMOD implies that a process may change UNIX file permissions.
 AA_MAY_CHMOD
 // AA_MAY_CHOWN implies that a process may change file ownership.
 AA_MAY_CHOWN
 // AA_MAY_CHGRP implies that a process may change the group ownership of a
 // file. The C-level macro is not defined in any userspace header but is
 // already supported and reported by the kernel.
 AA_MAY_CHGRP
```

```
 // AA_MAY_LOCK implies that a process may perform fcntl locking operations
 // on a file.
 AA_MAY_LOCK
 // AA_EXEC_MMAP implies that a process may execute code from an page
 //
 memory-mapped from a file.
 AA_EXEC_MMAP

 // There are additional permissions defined in the kernel but it seems some
 // of those are unused and their exact scope and meaning is unclear.

 // AA_MAY_LINK implies that a process may create a hard link. Their
 // associated file information describes the hard link name, not the
 // original file.
 AA_MAY_LINK FilePermission = 1 << 18
 // AA_MAY_ONEXEC implies that a process may change the apparmor profile on
 // the next exec call.
 AA_MAY_ONEXEC FilePermission = 1 << 29
 // AA_MAY_CHANGE_PROFILE implies that a process may change the apparmor
 // profile on demand.
 AA_MAY_CHANGE_PROFILE FilePermission = 1 << 30
)

const filePermissionMask = (AA_MAY_EXEC | AA_MAY_WRITE | AA_MAY_READ |
 AA_MAY_APPEND | AA_MAY_CREATE | AA_MAY_DELETE | AA_MAY_OPEN |
 AA_MAY_RENAME | AA_MAY_SETATTR | AA_MAY_GETATTR | AA_MAY_SETCRED |
 AA_MAY_GETCRED | AA_MAY_CHMOD | AA_MAY_CHOWN | AA_MAY_CHGRP |
 AA_MAY_LOCK | AA_EXEC_MMAP | AA_MAY_LINK | AA_MAY_ONEXEC |
 AA_MAY_CHANGE_PROFILE)

//
 String returns readable representation of the file permission value.
func (p FilePermission) String() string {
 frags := make([]string, 0, 21)
 if p&AA_MAY_EXEC != 0 {
  frags = append(frags, "execute")
 }
 if p&AA_MAY_WRITE != 0 {
  frags = append(frags, "write")
 }
 if p&AA_MAY_READ != 0 {
  frags = append(frags, "read")
 }
 if p&AA_MAY_APPEND != 0 {
  frags = append(frags, "append")
 }
 if p&AA_MAY_CREATE != 0 {
  frags = append(frags, "create")
```

```
}
if p&AA_MAY_DELETE != 0 {
 frags = append(frags, "delete")
}
if p&AA_MAY_OPEN != 0 {
 frags = append(frags, "open")
}
if p&AA_MAY_RENAME != 0 {
 frags = append(frags, "rename")
}
if p&AA_MAY_SETATTR != 0 {
 frags = append(frags, "set-attr")
}
if p&AA_MAY_GETATTR != 0 {
 frags = append(frags, "get-attr")
}
if p&AA_MAY_SETCRED != 0 {
 frags = append(frags, "set-cred")
}
if p&AA_MAY_GETCRED != 0 {
 frags = append(frags, "get-cred")
}
if p&AA_MAY_CHMOD != 0 {
 frags = append(frags, "change-mode")
}
if
p&AA_MAY_CHOWN != 0 {
 frags = append(frags, "change-owner")
}
if p&AA_MAY_CHGRP != 0 {
 frags = append(frags, "change-group")
}
if p&AA_MAY_LOCK != 0 {
 frags = append(frags, "lock")
}
if p&AA_EXEC_MMAP != 0 {
 frags = append(frags, "execute-map")
}
if p&AA_MAY_LINK != 0 {
 frags = append(frags, "link")
}
if p&AA_MAY_ONEXEC != 0 {
 frags = append(frags, "change-profile-on-exec")
}
if p&AA_MAY_CHANGE_PROFILE != 0 {
 frags = append(frags, "change-profile")
}
if residue := p &^ filePermissionMask; residue != 0 {
```

```
  frags = append(frags, fmt.Sprintf("%#x", uint(residue)))
 }
 if len(frags) == 0 {
  return "none"
 }
 return strings.Join(frags, "|")
}

// IsValid returns true if the given file permission contains only known bits set.
func (p FilePermission) IsValid() bool {
 return p & ^filePermissionMask == 0
}
```

Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: snappy
Source: https://github.com/snapcore/snapd

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*/

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// From https://spdx.org/licenses/
// data files: https://github.com/spdx/license-list-data
// Version: 3.11 2020-11-25
//
// jq < json/licenses.json '.licenses | .[] | select(.isOsiApproved == true) | .licenseId' | sort | sed -e 's/$/,/'
//
//nolint:unused
var osi = []string{
 "0BSD",
 "AAL",
 "AFL-1.1",
 "AFL-1.2",
 "AFL-2.0",
 "AFL-2.1",
 "AFL-3.0",
 "AGPL-3.0",
 "AGPL-3.0-only",
 "AGPL-3.0-or-later",
 "Apache-1.1",
 "Apache-2.0",
 "APL-1.0",
 "APSL-1.0",
 "APSL-1.1",
 "APSL-1.2",
 "APSL-2.0",
 "Artistic-1.0",
 "Artistic-1.0-cl8",
 "Artistic-1.0-Perl",
 "Artistic-2.0",
 "BSD-1-Clause",
 "BSD-2-Clause",
 "BSD-2-Clause-Patent",
 "BSD-3-Clause",
 "BSD-3-Clause-LBNL",
 "BSL-1.0",
 "CAL-1.0",
 "CAL-1.0-Combined-Work-Exception",
 "CATOSL-1.1",
 "CDDL-1.0",
 "CECILL-2.1",
 "CNRI-Python",
 "CPAL-1.0",
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"CPL-1.0",
"CUA-OPL-1.0",
"ECL-1.0",
"ECL-2.0",
"EFL-1.0",
"EFL-2.0",
"Entessa",
"EPL-1.0",
"EPL-2.0",
"EUDatagrid",
"EUPL-1.1",
"EUPL-1.2",
"Fair",
"Frameworx-1.0",
"GPL-2.0",
"GPL-2.0+",
"GPL-2.0-only",
"GPL-2.0-or-later",
"GPL-3.0",
"GPL-3.0+",
"GPL-3.0-only",
"GPL-3.0-or-later",
"GPL-3.0-with-GCC-exception",
"HPND",
"Intel",
"IPA",
"IPL-1.0",
"ISC",
"LGPL-2.0",
"LGPL-2.0+",
"LGPL-2.0-only",
"LGPL-2.0-or-later",
"LGPL-2.1",
"LGPL-2.1+",
"LGPL-2.1-only",
"LGPL-2.1-or-later",
"LGPL-3.0",
"LGPL-3.0+",
"LGPL-3.0-only",
"LGPL-3.0-or-later",
"LiLiQ-P-1.1",
"LiLiQ-R-1.1",
"LiLiQ-Rplus-1.1",
"LPL-1.0",
"LPL-1.02",
"LPPL-1.3c",
"MirOS",
"MIT",

"MIT-0",
"Motosoto",
"MPL-1.0",
"MPL-1.1",
"MPL-2.0",
"MPL-2.0-no-copyleft-exception",
"MS-PL",
"MS-RL",
"MulanPSL-2.0",
"Multics",
"NASA-1.3",
"Naumen",
"NCSA",
"NGPL",
"Nokia",
"NPOSL-3.0",
"NTP",
"OCLC-2.0",
"OFL-1.1",
"OFL-1.1-no-RFN",
"OFL-1.1-RFN",
"OGTSL",
"OLDAP-2.8",
"OSET-PL-2.1",
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"OSL-3.0",
"PHP-3.0",
"PHP-3.01",
"PostgreSQL",
"Python-2.0",
"QPL-1.0",
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"RPL-1.5",
"RPSL-1.0",
"RSCPL",
"SimPL-2.0",
"SISSL",
"Sleepycat",
"SPL-1.0",
"UCL-1.0",
"Unicode-DFS-2016",
"Unlicense",
"UPL-1.0",
"VSL-1.0",
"W3C",
"Watcom-1.0",

```
 "Xnet",
 "Zlib",
 "ZPL-2.0",
}

//
 using SPDX license data:
// jq < json/licenses.json '.licenses | .[] | .licenseId' | sort | sed -e 's/$/,/'
var allLicenses = []string{
 "0BSD",
 "AAL",
 "Abstyles",
 "Adobe-2006",
 "Adobe-Glyph",
 "ADSL",
 "AFL-1.1",
 "AFL-1.2",
 "AFL-2.0",
 "AFL-2.1",
 "AFL-3.0",
 "Afmparse",
 "AGPL-1.0",
 "AGPL-1.0-only",
 "AGPL-1.0-or-later",
 "AGPL-3.0",
 "AGPL-3.0-only",
 "AGPL-3.0-or-later",
 "Aladdin",
 "AMDPLPA",
 "AML",
 "AMPAS",
 "ANTLR-PD",
 "ANTLR-PD-fallback",
 "Apache-1.0",
 "Apache-1.1",
 "Apache-2.0",
 "APAFML",
 "APL-1.0",
 "APSL-1.0",
 "APSL-1.1",
 "APSL-1.2",
 "APSL-2.0",
 "Artistic-1.0",
 "Artistic-1.0-cl8",
 "Artistic-1.0-Perl",
 "Artistic-2.0",
 "Bahyph",
 "Barr",
```

"Beerware",
"BitTorrent-1.0",
"BitTorrent-1.1",
"blessing",
"BlueOak-1.0.0",
"Borceux",
"BSD-1-Clause",
"BSD-2-Clause",
"BSD-2-Clause-FreeBSD",
"BSD-2-Clause-NetBSD",
"BSD-2-Clause-Patent",
"BSD-2-Clause-Views",
"BSD-3-Clause",
"BSD-3-Clause-Attribution",
"BSD-3-Clause-Clear",
"BSD-3-Clause-LBNL",
"BSD-3-Clause-No-Nuclear-License",
"BSD-3-Clause-No-Nuclear-License-2014",
"BSD-3-Clause-No-Nuclear-Warranty",
"BSD-3-Clause-Open-MPI",
"BSD-4-Clause",
"BSD-4-Clause-UC",
"BSD-Protection",
"BSD-Source-Code",
"BSL-1.0",
"BUSL-1.1",
"bzip2-1.0.5",
"bzip2-1.0.6",
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Version 3, 29 June 2007

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Ty Coon, President of Vice

That's all there is to it!

1.3240 ubuntu-meta 1.481.4

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1.3241 configobj 5.0.6-5ubuntu0.1

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1.3242 normalize-package-data 7.0.0

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1.3243 @npmcli/node-gyp 4.0.0

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1.3244 write-file-atomic 6.0.0

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1.3247 unique-filename 4.0.0

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1.3248 minipass-fetch 4.0.0

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1.3250 proggy 3.0.0

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1.3251 @npmcli/fs 4.0.0

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1.3258 json-parse-even-better-errors 4.0.0

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1.3262 promzard 2.0.0

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1.3268 @npmcli/agent 3.0.0

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1.3269 validate-npm-package-name 6.0.0

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1.3270 bin-links 5.0.0

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1.3272 ssri 12.0.0

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1.3276 xmltodict 0.14.2

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1.3277 go-md2man 2.0.5

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parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
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may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first,
please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.3279 consul-api 1.30.0

1.3279.1 Available under license :

```
{{!
 Copyright (c) HashiCorp, Inc.
 SPDX-License-Identifier: BUSL-1.1
}}

<div
 ...attributes
 class="consul-intention-permission-header-form"
>
 <FormGroup
   @name={{name}}
 as |group|>

   {{yield (hash
     submit=(action 'submit' changeset)
     reset=(action 'reset' changeset)

     isDirty=(and changeset.isValid changeset.isDirty)
     changeset=changeset
   )}}

   <fieldset>
     <div>
       <group.Element
         @name="HeaderType"
         @type="select"
       as |el|>
         <el.Label>Header type</el.Label>
         <PowerSelect
           @options={{headerTypes}}
           @selected={{headerType}}
           @onChange={{action 'change' 'HeaderType' changeset}} as |Type|>
             {{get headerLabels Type}}
         </PowerSelect>
       </group.Element>



       <group.Element
         @name="Name"
         @error={{changeset-get changeset 'error.Name'}}
       as |el|>
         <el.Label>Header name</el.Label>
         <el.Text
```

```
        @value={{changeset-get changeset 'Name'}}
        oninput={{action 'change' 'Name' changeset}}
      />
      <State @state={{el.state}} @matches="error">
        <el.Error>
          {{changeset-get changeset 'error.Name.validation'}}
        </el.Error>
      </State>
    </group.Element>

{{#if shouldShowValueField}}
    <group.Element
      @name="Value"
      @error={{changeset-get changeset 'error.Value'}}
    as |el|>
      <el.Label>Header {{lowercase (get headerLabels headerType)}}</el.Label>
      <el.Text
        @value={{changeset-get changeset 'Value'}}
        oninput={{action 'change' 'Value' changeset}}
      />
      <State @state={{el.state}} @matches="error">
        <el.Error>
          {{changeset-get changeset 'error.Value.validation'}}
        </el.Error>
      </State>
    </group.Element>
{{/if}}

{{#if shouldShowIgnoreCaseField}}
    <group.Element

      @name="IgnoreCase"
      @error={{changeset-get changeset 'error.IgnoreCase'}}
    as |el|>
      <el.Label>Ignore Case</el.Label>
      <el.Checkbox
        checked={{if IgnoreCase 'checked'}}
        onchange={{action 'change' 'IgnoreCase' changeset}}
      />
    </group.Element>
{{/if}}

  </div>
 </fieldset>
</FormGroup>
</div>
```

---
layout: api
page_title: License - Operator - HTTP API
description: |-
 The /operator/license endpoint allows for retrieving the Consul
 Enterprise License.

License - Operator HTTP API

<EnterpriseAlert />

The licensing functionality described here is available only in
[Consul Enterprise](https://www.hashicorp.com/products/consul/) version 1.1.0 and later.

Getting the Consul License

This endpoint gets information about the current license.

Method	Path	Produces
`GET`	`/operator/license`	`application/json`

The table below shows this endpoint's support for
[blocking queries](/consul/api-docs/features/blocking),
[consistency modes](/consul/api-docs/features/consistency),
[agent caching](/consul/api-docs/features/caching), and
[required ACLs](/consul/api-docs/api-structure#authentication).

| Blocking Queries | Consistency Modes | Agent Caching | ACL Required |
| ----------
 | ---------- | ---------- | ---------- |
| `NO` | `all` | `none` | `none` |

The corresponding CLI command is [`consul license get`](/consul/commands/license#get).

Query Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be retrieved.
 This will default to the datacenter of the agent serving the HTTP request.

Sample Request

```shell-session
$ curl \
   http://127.0.0.1:8500/v1/operator/license
```

Sample Response

```json
{
 "Valid": true,
 "License": {
   "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
   "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
   "installation_id": "*",
   "issue_time": "2018-05-21T20:03:35.911567355Z",
   "start_time": "2018-05-21T04:00:00Z",
   "expiration_time": "2019-05-22T03:59:59.999Z",
   "product": "consul",
   "flags": {
     "package": "premium"
   },
   "features": [
     "Automated Backups",
     "Automated Upgrades",

     "Enhanced Read Scalability",
     "Network Segments",
     "Redundancy Zone",
     "Advanced Network Federation"
   ],
   "temporary": false
 },
 "Warnings": []
}
```

Updating the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with the ability to manage the cluster's license via the API.

This endpoint updates the Consul license and returns some of the license contents as well as any warning messages regarding its validity.

Method	Path	Produces
`PUT`	`/operator/license`	`application/json`

The table below shows this endpoint's support for [blocking queries](/consul/api-docs/features/blocking), [consistency modes](/consul/api-docs/features/consistency), [agent caching](/consul/api-docs/features/caching), and [required ACLs](/consul/api-docs/api-structure#authentication).

| Blocking Queries | Consistency Modes | Agent Caching | ACL Required
|
| ---------- | ---------- | ---------- | ---------- |
| `NO` | `none` | `none` | `operator:write` |

The corresponding CLI command is [`consul license put`](/consul/commands/license#put).

Query Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be updated.
 This will default to the datacenter of the agent serving the HTTP request.

Sample Payload

The payload is the raw license blob.

Sample Request

```shell-session
$ curl \
  --request PUT \
  --data @consul.license \
  http://127.0.0.1:8500/v1/operator/license
```

Sample Response

```json
{
 "Valid": true,
 "License": {
  "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
  "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
  "installation_id": "*",
  "issue_time": "2018-05-21T20:03:35.911567355Z",
  "start_time": "2018-05-21T04:00:00Z",
  "expiration_time": "2019-05-22T03:59:59.999Z",
  "product":
 "consul",
  "flags": {
    "package": "premium"
  },
  "features": [
    "Automated Backups",
    "Automated Upgrades",
    "Enhanced Read Scalability",
    "Network Segments",
```

```
    "Redundancy Zone",
    "Advanced Network Federation"
  ],
  "temporary": false
 },
 "Warnings": []
}
```

Resetting the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with
the ability to manage the cluster's license via the API.

This endpoint resets the Consul license to the license included in the Enterprise binary. If the included license is not valid, the replace will fail.

Method	Path	Produces
`DELETE`	`/operator/license`	`application/json`

The table below shows this endpoint's support for
[blocking queries](/consul/api-docs/features/blocking),
[consistency modes](/consul/api-docs/features/consistency),
[agent caching](/consul/api-docs/features/caching),
 and
[required ACLs](/consul/api-docs/api-structure#authentication).

Blocking Queries	Consistency Modes	Agent Caching	ACL Required
`NO`	`none`	`none`	`operator:write`

The corresponding CLI command is [`consul license reset`](/consul/commands/license#reset).

Query Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be updated.
 This will default to the datacenter of the agent serving the HTTP request.

Sample Request

```shell-session
$ curl \
  --request DELETE \
  http://127.0.0.1:8500/v1/operator/license
```

Sample Response

```json
{
 "Valid": true,
 "License": {
   "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
   "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
   "installation_id": "*",
   "issue_time": "2018-05-21T20:03:35.911567355Z",
   "start_time": "2018-05-21T04:00:00Z",
    "expiration_time": "2019-05-22T03:59:59.999Z",
   "product": "consul",
   "flags": {
     "package": "premium"
   },
   "features": [
     "Automated Backups",
     "Automated Upgrades",
     "Enhanced Read Scalability",
     "Network Segments",
     "Redundancy Zone",
     "Advanced Network Federation"
   ],
   "temporary": false
 },
 "Warnings": []
}
```
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

@import './skin';
@import './layout';
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

.consul-intention-permission-form {
 h2 {
   padding-top: 1.4em;
   margin-top: 0.2em;
   margin-bottom: 0.6em;
 }
 .consul-intention-permission-header-form {
   margin-top: 10px;

```
 }
 fieldset:nth-child(2) > div,
 .consul-intention-permission-header-form fieldset > div {
   display: grid;
   grid-template-columns: repeat(auto-fit, minmax(160px, 1fr));
   grid-gap: 12px;
 }
 fieldset:nth-child(2) > div label:last-child {
   grid-column: span 2;
 }
 .ember-basic-dropdown-trigger {
   padding: 5px;
 }
 .checkbox-group {
   flex-direction: column;
 }
}
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

@import './skin';
@import './layout';
.consul-intention-permission-list > ul > li {
 @extend %list-row-200;
}
.consul-intention-permission-list:not(.readonly) > ul > li {
 @extend %with-composite-row-intent;
}
.consul-intention-permission-list strong {
 @extend %pill-500;
}
.consul-intention-permission-list .intent-allow {
 @extend %pill-allow;
}
.consul-intention-permission-list .intent-deny {
 @extend %pill-deny;
}
```

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---
layout: docs
page_title: Enterprise License FAQ
description: >-
Review frequently asked questions (FAQs) about Consul Enterprise licenses to learn more about how licenses work, what happens when they expire, and how to get a trial license.

Frequently Asked Questions (FAQ)

This FAQ is for the license changes introduced in Consul Enterprise version 1.10.0.
Consul Enterprise automatically loads Consul licenses when the server agent starts.

Q: Can I get a quick summary of the Consul changes?

Starting with Consul Enterprise 1.10.0, the license enablement process is different.

HashiCorp Enterprise servers will no longer start without a license. Servers require licenses to be provided from either an environment variable or file.
If the license is missing, invalid, or expired, the server will immediately exit.
This check is part of the server boot-up process.

In previous versions of HashiCorp enterprise products, one server could distribute a license to other servers via the Raft protocol.
This will no longer work since each server must be able to find a valid license during the startup process.

Q: What are the upgrade requirements?

All customers on Consul Enterprise 1.8/1.9 must first upgrade their client and server agents to the latest patch release.
During the upgrade the license file must also be configured on client agents in an environment variable or file path, otherwise the Consul agents will fail to retrieve the license with a valid agent token.
The upgrade process varies if ACLs are enabled or disabled in the cluster.
Refer to the instructions on [upgrading to 1.10.x](/consul/docs/upgrading/instructions/upgrade-to-1-10-x) for details.

Q: Is there a tutorial available for the license configuration steps?

Please visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs).

Q: What resources are available?

The list below is a great starting point for learning more about the license changes introduced in Consul Enterprise 1.10.0+ent.

- [Consul Enterprise Upgrade Documentation](/consul/docs/enterprise/upgrades)

- [Consul License Documentation](/consul/docs/enterprise/license/overview)

- [License configuration values documentation](/consul/docs/enterprise/license/overview#binaries-without-built-in-licenses)

- [Install a HashiCorp Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs)

Q: Do these changes impact all customers/licenses?

The license changes introduced in 1.10.0 only affect Consul Enterprise.
This impacts customers that have an enterprise binary (trial or non-trial licenses) downloaded from https://releases.hashicorp.com.
The license changes do not impact customers with the baked-in licensed binaries. In a later release of Consul

Enterprise, baked-in binaries will be deprecated.

Q: What is the product behavior change introduced by the licensing changes?

Starting with Consul Enterprise 1.10.0,
 a valid license is required on-disk (auto-loading) or as an environment variable for Consul Enterprise to successfully boot-up.
The in-storage license feature will not be supported starting with Consul Enterprise 1.10.0+ent. All Consul Enterprise clusters using 1.10.0+ent must ensure that there is a valid license on-disk (auto-loaded) or as an environment variable.

Q: What is the impact on trial licenses due to this change? ((#q-what-is-the-impact-on-evaluation-licenses-due-to-this-change))

Consul Enterprise 1.10.0+ server agents require a valid license to start.
The license can be provided on disk (auto-loaded) or as an environment variable.
There is no longer a 6-hour trial period in which Consul Enterprise server agents
can operate without a license.

Q: Is there a grace period when licenses expire?

YesConsul will continue normal operation and can be restarted after license *expiration* as defined in [`expiration_time`](/consul/api-docs/operator/license#getting-the-consul-license).
As
 license expiration is approached or passed, Consul will issue warnings in the system logs.

Consul will only cease operation after license *termination*, which occurs 10 years
after license expiration and is defined in
[`termination_time`](/consul/api-docs/operator/license#getting-the-consul-license).

~> **Starting with Consul 1.14, and patch releases 1.13.3 and 1.12.6, Consul will support non-terminating licenses**:
  Please contact your support representative for more details on non-terminating licenses.
  An expired license will not allow Consul versions released after the expiration date to run.
  It will not be possible to upgrade to a new version of Consul released after license expiration.

Q: Does this affect client agents?

There are upgrade requirements that affect Consul Enterprise clients.
Please review the [upgrade requirements](#q-what-are-the-upgrade-requirements) documentation.

Q: Does this affect snapshot agents?

Same behavior as Consul clients.
 See answer for [Does this affect client agents?](#q-does-this-affect-client-agents)

Q: What is the behavior if the license is missing?

Consul server agents will detect the absence of the license and immediately exit.

Consul client agents will attempt to retrieve the license from servers if certain conditions are met:

- ACLs are enabled.
- An ACL token is provided to the client agent.
- The client agents configuration contains `retry_join` addresses.
- The retry join addresses are addresses of the Consul servers.

Consul snapshot agents will attempt to retrieve the license from servers if certain conditions are met: ACLs are enabled, a ACL token is provided to the client agent, the client agents configuration contains `retry_join` addresses, the retry join addresses are addresses of the Consul servers.

Q: Where can users get a trial license for Consul Enterprise?

Contact your [HashiCorp Support contact](https://support.hashicorp.com/) for a development license.

~> **Trial
 install will cease operation 24 hours after 30-day license expiration**:
  Trial licenses are not meant to be used in production.
  This is unlike non-trial licenses which provide a 10 year grace period as described in
  the answer for [Q: Is there a grace period when licenses expire?](#q-is-there-a-grace-period-when-licenses-expire).

Q: How can I renew a license?

Contact your organization's [HashiCorp account team](https://support.hashicorp.com/hc/en-us) for information on how to renew your organization's enterprise license.

Q: I'm an existing enterprise customer but don't have my license, how can I get it?

Contact your organization's [HashiCorp account team](https://support.hashicorp.com/hc/en-us) for information on how to renew your organization's enterprise license.

Q: Are the license files locked to a specific cluster?

The license files are not locked to a specific cluster or cluster node. The above changes apply to all nodes in a cluster.

Q: Will this
 impact HCP Consul Dedicated?

This will not impact HCP Consul Dedicated.

Q: Does this need to happen every time a node restarts, or is this a one-time check?

Consul Enterprise binaries starting with 1.10.0+ent, will be subject to EULA check. Release 1.10.0+ent introduces the EULA check for trial licenses (non-trial licenses already go through EULA check during contractual agreement).

The agreement to a EULA happens only once (when the user gets their license), Consul Enterprise **will check for the presence of a valid license every time a node restarts**.

When a customer upgrades existing clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be auto-loaded.

When a customer deploys new clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be on-disk (auto-loaded).

Q: What are the scenarios that a customer must plan for because of these changes?

New
 Consul cluster deployments using 1.10.0+ent will need to have a valid license on servers to successfully deploy. This valid license must be on-disk (auto-loaded) or as an environment variable.
Please see the [upgrade requirements](/consul/docs/enterprise/license/faq#q-what-are-the-upgrade-requirements).

Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?

VM

1. Run [`consul license get -signed`](/consul/commands/license#get) to extract the license from their running cluster. Store the license in a secure location on disk.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have access to the required license. This could be via the client agent configuration file or an environment variable.
1. Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license
 key.
1. Follow the Consul upgrade [documentation](/consul/docs/upgrading).

Kubernetes

NOTE: If you are not upgrading Consul or your Helm chart version then no action is required.

1. In order to use Consul Enterprise 1.10.0 or greater on Kubernetes you must use version 0.32.0 or greater of the Helm chart.
1. You should already have a Consul Enterprise license set as a Kubernetes secret. If you do not, refer to [how to obtain a copy of your license](/consul/docs/enterprise/license/faq#q-i-m-an-existing-enterprise-customer-but-don-t-have-my-license-how-can-i-get-it).
Once you have the license then create a Kubernetes secret containing the license as described in [Kubernetes - Consul Enterprise](/consul/docs/k8s/deployment-configurations/consul-enterprise).
1. Follow the [Kubernetes Upgrade Docs](/consul/docs/k8s/upgrade) to upgrade. No changes to your `values.yaml` file are needed to enable enterprise autoloading since this support is built in to consul-helm 0.32.0 and greater.

!>
 Warning: If you are upgrading the Helm chart but **not** upgrading the Consul version, you must set `server.enterpriseLicense.enableLicenseAutoload: false`. See [Kubernetes - Consul Enterprise](/consul/docs/k8s/deployment-configurations/consul-enterprise) for more details.

Q: What is the migration path for customers who want to migrate from their existing perpetually-licensed binaries to the license on disk flow?

VM

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's [customer success manager](https://support.hashicorp.com/hc/en-us) (CSM) for information on how to get your organization's enterprise license.
1. Store the license in a secure location on disk.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.
  Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license key.
1. Follow the Consul upgrade [documentation](/consul/docs/upgrading).

Kubernetes

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's [customer success manager](https://support.hashicorp.com/hc/en-us) (CSM) for information on how to get your organization's enterprise license.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.
  Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license key.
1. Proceed with the `helm` [upgrade instructions](/consul/docs/k8s/upgrade)

Q: Will Consul downgrades/rollbacks work?

When downgrading
 to a version of Consul before 1.10.0+ent, customers will need to follow the previous process for applying an enterprise licenses to Consul Enterprise.

Q: Are there potential pitfalls when downgrading or upgrading Consul server instances?

~> Verify that you meet the [upgrade requirements](/consul/docs/enterprise/license/faq#q-what-are-the-upgrade-requirements).

Assume a scenario where there are three Consul server nodes:

- Node A: v1.9.5
- Node B: v1.10.0 [Leader]
- Node C: v1.9.5

The command `consul license put` is issued from Node A. This will result in an error due to how Consul routes calls to the server node, Node B in this example.
Because Node A is a follower when the call `consul license put` is issued, the call will be redirected to Node B (leader).

The `consul license put` operation will fail due to being removed from 1.10.0.
This is a scenario that could occur if a customer downgrades from 1.10.0+ and the Consul leadership has not transferred back over to a node
 not running 1.10.0+.
This also has the potential of occurring when upgrading if scheduled license updates or autoscaling groups recoveries are in place.

Q: Any impacts to Consul Kubernetes?

If you are using a Consul Enterprise version prior to 1.10.0 and decide to upgrade the Helm chart to version 0.32.0 or newer, but not the Consul version.
You will need to add the following configuration.

```
server:
 enterpriseLicense:
   enableLicenseAutoload: false
```

```
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

.consul-intention-permission-header-list {
 max-height: 200px;
 overflow: auto;
}
{{!
 Copyright (c) HashiCorp, Inc.
 SPDX-License-Identifier: BUSL-1.1
}}

{{#if (gt items.length 0)}}
<ListCollection
 class="consul-intention-permission-header-list"
 @items={{items}}
 @scroll="native"
 @cellHeight={{42}}
as |item|>
 <BlockSlot @name="details">
   <dl>
     <dt>
       <Tooltip>
         Header
       </Tooltip>
     </dt>
     <dd>
       {{item.Name}} {{route-match item}}
```

```
    </dd>
  </dl>
</BlockSlot>
<BlockSlot @name="actions" as |Actions|>
  <Actions as |Action|>
    <Action data-test-delete-action @onclick={{action ondelete item}} class="dangerous">
      <BlockSlot @name="label">
        Delete
      </BlockSlot>
      <BlockSlot @name="confirmation" as |Confirmation|>
        <Confirmation class="warning">
          <BlockSlot @name="header">
            Confirm delete
          </BlockSlot>
          <BlockSlot @name="body">
            <p>
              Are you sure you want to delete this header?

 </p>
          </BlockSlot>
          <BlockSlot @name="confirm" as |Confirm|>
            <Confirm>Delete</Confirm>
          </BlockSlot>
        </Confirmation>
      </BlockSlot>
    </Action>
  </Actions>
</BlockSlot>
</ListCollection>
{{/if}}
{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
   "rules": {
     "policies": {
       "consul-intentions-layer7-0": {
         "permissions": [
           {
             "andRules": {
               "rules": [
                 {
                   "urlPath": {
                     "path": {
                       "exact": "/v1/secret"
                     }
                   }
                 },
```

```
    {
      "andRules": {
        "rules": [
          {
            "metadata": {
              "filter": "envoy.filters.http.jwt_authn",
              "path": [
                {
                  "key": "jwt_payload_auth0"
                },
                {
                  "key": "iss"
                }
              ],
              "value": {
                "stringMatch": {
                  "exact": "mytest.auth0-issuer"
                }
              }
            }
          },
          {
            "metadata": {
              "filter": "envoy.filters.http.jwt_authn",
              "path": [
                {
                  "key": "jwt_payload_auth0"
                },
                {
                  "key": "perms"
                },
                {
                  "key": "role"
                }
              ],
              "value": {
                "stringMatch": {
                  "exact": "admin"

}
              }
            }
          }
        ]
      }
    }
  ]
}
```

```
      },
      {
        "andRules": {
          "rules": [
            {
              "urlPath": {
                "path": {
                  "exact": "/v1/admin"
                }
              }
            },
            {
              "notRule": {
                "urlPath": {
                  "path": {
                    "exact": "/v1/secret"
                  }
                }
              }
            }
          ]
        }
      }
    ],
    "principals": [
      {
        "andIds": {
          "ids": [
            {
              "authenticated": {
                "principalName": {

              "safeRegex": {
                    "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
                  }
                }
              }
            },
            {
              "andIds": {
                "ids": [
                  {
                    "metadata": {
                      "filter": "envoy.filters.http.jwt_authn",
                      "path": [
                        {
                          "key": "jwt_payload_okta"
                        },
```

```
                    {
                      "key": "iss"
                    }
                  ],
                  "value": {
                    "stringMatch": {
                      "exact": "mytest.okta-issuer"
                    }
                  }
                }
              },

              {
                "metadata": {
                  "filter": "envoy.filters.http.jwt_authn",
                  "path": [
                    {
                      "key": "jwt_payload_okta"
                    },
                    {
                      "key": "roles"
                    }
                  ],
                  "value": {
                    "stringMatch": {
                      "exact": "testing"
                    }
                  }
                }
              }
            ]
          }
        }
      }
    ]
  }
 }
}
{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
   "rules": {
     "policies": {
```

```
"consul-intentions-layer7-0": {
  "permissions": [
    {
      "andRules": {
        "rules": [
          {
            "urlPath": {
              "path": {
                "prefix": "/v1"
              }
            }
          },
          {
            "notRule": {
              "urlPath": {
                "path": {
                  "exact": "/v1/secret"
                }
              }
            }
          }
        ]
      }
    },
    {
      "andRules": {
        "rules": [
          {
            "andRules": {
              "rules": [
                {

            "urlPath": {
                  "path": {
                    "safeRegex": {
                      "regex": "/v[123]"
                    }
                  }
                }
              },
              {
                "header": {
                  "name": ":method",
                  "stringMatch": {
                    "safeRegex": {
                      "regex": "GET|HEAD|OPTIONS"
                    }
                  }
```

```
            }
          }
        ]
      }
    },
    {
      "notRule": {
        "urlPath": {
          "path": {
            "exact": "/v1/secret"
          }
        }
      }
    },

{
      "notRule": {
        "andRules": {
          "rules": [
            {
              "urlPath": {
                "path": {
                  "exact": "/v1/admin"
                }
              }
            },
            {
              "header": {
                "name": ":method",
                "stringMatch": {
                  "safeRegex": {
                    "regex": "GET"
                  }
                }
              }
            }
          ]
        }
      }
    }
  ]
 }
},
{
 "andRules": {
  "rules": [
   {
```

```
"andRules": {
            "rules": [
              {
                "header": {
                  "name": "x-foo",
                  "presentMatch": true
                }
              },
              {
                "header": {
                  "name": "x-bar",
                  "stringMatch": {
                    "exact": "xyz"
                  }
                }
              },
              {
                "header": {
                  "name": "x-dib",
                  "stringMatch": {
                    "prefix": "gaz"
                  }
                }
              },
              {
                "header": {
                  "name": "x-gir",
                  "stringMatch": {

        "suffix": "zim"
                  }
                }
              },
              {
                "header": {
                  "name": "x-zim",
                  "stringMatch": {
                    "safeRegex": {
                      "regex": "gi[rR]"
                    }
                  }
                }
              },
              {
                "header": {
                  "invertMatch": true,
                  "name": "z-foo",
                  "presentMatch": true
```

```
        }
      },
      {
        "header": {
          "invertMatch": true,
          "name": "z-bar",
          "stringMatch": {
            "exact": "xyz"

  }
        }
      },
      {
        "header": {
          "invertMatch": true,
          "name": "z-dib",
          "stringMatch": {
            "prefix": "gaz"
          }
        }
      },
      {
        "header": {
          "invertMatch": true,
          "name": "z-gir",
          "stringMatch": {
            "suffix": "zim"
          }
        }
      },
      {
        "header": {
          "invertMatch": true,
          "name": "z-zim",
          "stringMatch": {
            "safeRegex": {

       "regex": "gi[rR]"
            }
          }
        }
      }
    ]
  }
},
{
  "notRule": {
    "urlPath": {
```

```
                "path": {
                  "exact": "/v1/secret"
                }
              }
            }
          },
          {
            "notRule": {
              "header": {
                "name": "x-baz",
                "presentMatch": true
              }
            }
          }
        ]
      }
    }
    ],
    "principals": [
      {
        "authenticated": {
          "principalName": {
            "safeRegex": {
              "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
            }
          }
        }
      }
    ]
  }
}
}
}
{
 "name": "envoy.filters.network.rbac",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.network.rbac.v3.RBAC",
   "rules": {},
   "statPrefix": "connect_authz"
 }
}
{
 "Valid": true,
 "License": {
   "license_id": "${fake.random.uuid()}",
   "customer_id": "${fake.random.uuid()}",
   "installation_id": "*",
```

"issue_time": "2021-01-13T15:25:19.052900132Z",
"start_time": "2021-01-13T00:00:00Z",
"expiration_time": "${env('CONSUL_LICENSE_EXPIRATION', '2022-05-02T23:59:59.999Z')}",
"termination_time": "${env('CONSUL_LICENSE_TERMINATION', '2022-01-13T23:59:59.999Z')}",
"product": "consul",
"flags": {
"modules": [
"global-visibility-routing-scale",
"governance-policy"
]
},
"modules": [
"Global Visibility, Routing and Scale",
"Governance and Policy"
],
"features": [
"Automated Backups",
"Automated Upgrades",
"Enhanced Read Scalability",
"Network Segments",
"Redundancy Zone",
"Advanced Network Federation",
"Namespaces",
"SSO",
"Audit Logging",
"Admin Partitions"
]
},
"Warnings": [
]
}
{
"name": "envoy.filters.http.jwt_authn",
"typedConfig": {
"@type": "type.googleapis.com/envoy.extensions.filters.http.jwt_authn.v3.JwtAuthentication",
"providers": {
"okta": {
"issuer": "test-issuer",
"payloadInMetadata": "jwt_payload_okta",
"remoteJwks": {
"asyncFetch": {
"fastListener": true
},
"httpUri": {
"cluster": "jwks_cluster_okta",
"timeout": "1s",
"uri": "https://example-okta.com/.well-known/jwks.json"
}

```
      }
    }
  },
  "rules": [
    {
      "match": {
        "prefix": "/"
      },
      "requires": {
        "requiresAny": {
          "requirements": [
            {
              "providerName": "okta"
            },
            {
              "allowMissingOrFailed": {}
            }
          ]
        }
      }
    }
  ]
 }
}
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

@import './skin';
@import './layout';
.consul-intention-permission-header-list {
 > ul > li {
   @extend %list-row-200;
 }
}
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{
 "name": "envoy.filters.http.rbac",
```

```
"typedConfig": {
  "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
  "rules": {
    "policies": {
      "consul-intentions-layer7-0": {
        "permissions": [
          {
            "andRules": {
              "rules": [
                {
                  "andRules": {
                    "rules": [
                      {
                        "urlPath": {
                          "path": {
                            "prefix": "/v1"
                          }
                        }
                      },
                      {
                        "header": {
                          "name": "x-foo",
                          "presentMatch": true
                        }
                      }
                    ]
                  }
                },
                {
                  "notRule": {
                    "andRules": {

                    "rules": [
                        {
                          "urlPath": {
                            "path": {
                              "exact": "/v1/secret"
                            }
                          }
                        },
                        {
                          "header": {
                            "name": "x-baz",
                            "presentMatch": true
                          }
                        },
                        {
                          "header": {
```

```
                "name": "x-bar",
                "presentMatch": true
              }
            }
          ]
        }
      }
    },
    {
      "notRule": {
        "andRules": {
          "rules": [
            {

"urlPath": {
                "path": {
                  "exact": "/v1/admin"
                }
              }
            },
            {
              "header": {
                "name": "x-baz",
                "presentMatch": true
              }
            },
            {
              "header": {
                "name": "x-bar",
                "presentMatch": true
              }
            }
          ]
        }
      }
    }
  ]
}
],
"principals": [
  {
    "authenticated": {
      "principalName": {
        "safeRegex": {
          "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
        }
      }
```

```
            }
          }
        ]
      }
    }
  }
}
}
```

License

```hbs preview-template
<figure>
 <figcaption>URI: <code>/:partition/:nspace/:dc/license</code></figcaption>
 <DataSource
   @src={{
     uri '/${partition}/${nspace}/${dc}/license'
     (hash
       partition='partition'
       nspace='ns'
       dc='dc-1'
     )
   }}
   @onchange={{action (mut data) value="data"}}
 />
 <pre><code>{{json-stringify data null 4}}</code></pre>
</figure>
```

---
page_title: Automated license utilization reporting
description: >-
 Learn what data HashiCorp collects to meter Enterprise license utilization. Enable or disable reporting. Review sample payloads and logs.

Automated license utilization reporting

This topic describes how to enable automated license utilization reporting in Consul Enterprise. This feature automatically sends license utilization data to HashiCorp so that you do not have to manually collect and report it. It also enables you to review your license usage with the monitoring solution you already use, such as Splunk and Datadog, as you optimize and manage your deployments.

Introduction

You can use automated license utilization report to understand how much additional networking infrastructure you can deploy under your current contract. This feature helps you protect against overutilization and budget for predicted consumption.

Automated reporting shares the minimum data required to validate license utilization

as defined in our contracts. This data mostly consists of computed metrics, and it will never contain Personal Identifiable Information (PII) or other sensitive information. Automated reporting shares the data with HashiCorp using a secure unidirectional HTTPS API and makes an auditable record in the product logs each time it submits a report. This process is GDPR-compliant.

Requirements

Automated license utilization reporting does not support _air-gapped installations_, which are systems with no network interfaces.

The following versions of Consul Enterprise support automated license utilization reporting:

- Consul Enterprise v1.16.0 and newer.
- Patch releases of Consul Enterprise v1.15.4 and newer.
- Patch releases of Consul Enterprise v1.14.8 and newer.
- Patch releases of Consul Enterprise v1.13.9 and newer.

Download a supported release from the [Consul Versions](https://releases.hashicorp.com/consul/) page.

Enable automated reporting

Before you enable automated reporting,
make sure that outbound network traffic is configured correctly and upgrade your enterprise product to a version that supports it. If your installation is air-gapped or network settings are not in place, automated reporting will not work.

To enable automated reporting, complete the following steps:

1. [Allow outbound HTTPS traffic on port 443](#allow-outbound-https-traffic)
1. [Check product logs](#check-product-logs)

Allow outbound HTTPS traffic on port 443

Make sure that your network allows HTTPS egress on port 443 from `https://reporting.hashicorp.services` by adding the following IP addresses to your allow-list:

- `100.20.70.12`
- `35.166.5.222`
- `23.95.85.111`
- `44.215.244.1`

Check product logs

Automatic license utilization reporting starts sending data within roughly 24 hours. Check the product logs for records that the data sent successfully.

<CodeBlockConfig hideClipboard>

```
[DEBUG] beginning snapshot export
[DEBUG] creating payload
[DEBUG] marshalling
 payload to json
[DEBUG] generating authentication headers
[DEBUG] creating request
[DEBUG] sending request
[DEBUG] performing request: method=POST url=https://census.license.hashicorp.services
[DEBUG] recording audit record
[INFO]  reporting: Report sent: auditRecord={"payload":{"payload_version":"1","license_id":"d2cdd857-4202-5a45-70a6-e4b531050c34","product":"consul","product_version":"1.16.0-dev+ent","export_timestamp":"2023-05-26T20:09:13.753921087Z","snapshots":[{"snapshot_version":1,"snapshot_id":"0001J724F90F4XWQDSAA76ZQWA","process_id":"01H1CTJPC1S8H7Q45MKTJ689ZW","timestamp":"2023-05-26T20:09:13.753513962Z","schema_version":"1.0.0","service":"consul","metrics":{"consul.billable.nodes":{"key":"consul.billable.nodes","kind":"counter","mode":"write","value":2},"consul.billable.service_instances":{"key":"consul.billable.service_instances","kind":"counter","mode":"write","value":2}}}],"metadata":{}}}
[DEBUG] completed recording audit record
[DEBUG] export finished successfully"
```

</CodeBlockConfig>

If
 your installation is air-gapped or your network does not allow the correct egress, the logs show an error.

<CodeBlockConfig hideClipboard>

```
[DEBUG] reporting: beginning snapshot export
[DEBUG] reporting: creating payload
[DEBUG] reporting: marshalling payload to json
[DEBUG] reporting: generating authentication headers
[DEBUG] reporting: creating request
[DEBUG] reporting: sending request
[DEBUG] reporting: performing request: method=POST url=https://census.license.hashicorp.services
[DEBUG] reporting: error status code received: statusCode=403
```

</CodeBlockConfig>

In this case, reconfigure your network to allow egress and check the logs again in roughly 24 hours to confirm that automated reporting works correctly.

Opt out

If your installation is air-gapped or you want to manually collect and report on the same license utilization metrics, you can opt out of automated reporting.

Manually reporting these metrics can be time consuming. Opting out of automated reporting does not mean that you also opt out from sending license utilization metrics. Customers who opt out of automated reporting are still required to manually collect and send license utilization metrics to HashiCorp.

If you are considering opting out because you are worried about the data, we strongly recommend that you review the [example payloads](#example-payloads) before opting out. If you have concerns with any of the automatically reported data, raise these concerns with your account manager.

There are two methods for opting out of automated reporting:

- HCL configuration (recommended)
- Environment variable (requires restart)

We recommend opting out in your product's configuration file because it does not require a system restart. Add the following block to your `configuration.hcl` or `configuration.json` file.

```hcl
reporting {
 license {
  enabled = false
 }
}
```

When opting out using an environment variable, the system provides a startup message confirming that you have disabled automated reporting. Set the following environment variable to disable automated reporting:

<CodeBlockConfig>

```shell-session
$ export OPTOUT_LICENSE_REPORTING=true
```

</CodeBlockConfig>

After you set the environment variable, restart your system to complete the process for opting out.

```shell-session
$ consul reload
```

Check your product logs roughly 24 hours after opting out to make sure that the system is not trying to send reports. Keep in mind that if your configuration file and environment variable differ, the environment variable setting takes precedence.

Example payloads

HashiCorp collects the following utilization data as JSON payloads:
`exporter_version` - The version of the licensing exporter

<CodeBlockConfig hideClipboard>

```json
{
 "payload": {
   "payload_version": "1",
   "license_id": "d2cdd857-4202-5a45-70a6-e4b531050c34",
   "product": "consul",
   "product_version": "1.16.0-dev+ent",
   "export_timestamp":
 "2023-05-26T20:09:13.753921087Z",
   "snapshots": [
     {
       "snapshot_version": 1,
       "snapshot_id": "0001J724F90F4XWQDSAA76ZQWA",
       "process_id": "01H1CTJPC1S8H7Q45MKTJ689ZW",
       "timestamp": "2023-05-26T20:09:13.753513962Z",
       "schema_version": "1.0.0",
       "service": "consul",
       "metrics": {
         "consul.billable.nodes": {
           "key": "consul.billable.nodes",
           "kind": "counter",
           "mode": "write",
           "value": 2
         },
         "consul.billable.service_instances": {
           "key": "consul.billable.service_instances",
           "kind": "counter",
           "mode": "write",
           "value": 2
         }
       }
     }
   ],
   "metadata": {}
 }
}
```

</CodeBlockConfig>

---
layout: docs
page_title: Storing the Enterprise License in Vault
description: >-
 Configuring the Consul Helm chart to use an enterprise license stored in Vault.

Storing the Enterprise License in Vault

This topic describes how to configure the Consul Helm chart to use an enterprise license stored in Vault.
Overview
Complete the steps outlined in the [Data Integration](/consul/docs/k8s/deployment-configurations/vault/data-integration) section to use an enterprise license stored in Vault.

Complete the following steps once:
 1. Store the secret in Vault.
 1. Create a Vault policy that authorizes the desired level of access to the secret.

Repeat the following steps for each datacenter in the cluster:
 1. Create Vault Kubernetes auth roles that link the policy to each Consul on Kubernetes service account that requires access.
 1. Update the Consul on Kubernetes helm chart.

Prerequisites
Prior to setting up the data integration between Vault and Consul on Kubernetes,
 you will need to have:
1. Read and completed the steps in the [Systems Integration](/consul/docs/k8s/deployment-configurations/vault/systems-integration) section of [Vault as a Secrets Backend](/consul/docs/k8s/deployment-configurations/vault).
2. Read the [Data Integration Overview](/consul/docs/k8s/deployment-configurations/vault/data-integration) section of [Vault as a Secrets Backend](/consul/docs/k8s/deployment-configurations/vault).

Store the Secret in Vault

First, store the enterprise license in Vault:

```shell-session
$ vault kv put consul-kv/secret/enterpriselicense key="<enterprise license>"
```

Create Vault policy

Next, you will need to create a policy that allows read access to this secret.

The path to the secret referenced in the `path` resource is the same value that you will configure in the `global.enterpriseLicense.secretName` Helm configuration (refer to [Update Consul on Kubernetes Helm chart](#update-consul-on-kubernetes-helm-chart)).

<CodeBlockConfig
 filename="license-policy.hcl">

```HCL
path "consul-kv/data/secret/enterpriselicense" {
 capabilities = ["read"]
}
```

</CodeBlockConfig>

Apply the Vault policy by issuing the `vault policy write` CLI command:

```shell-session
$ vault policy write license-policy license-policy.hcl
```

Create Vault Authorization Roles for Consul

Next, you will create Kubernetes auth roles for the Consul server and client:

```shell-session
$ vault write auth/kubernetes/role/consul-server \
   bound_service_account_names=<Consul server service account> \
   bound_service_account_namespaces=<Consul installation namespace> \
   policies=license-policy \
   ttl=1h
```

```shell-session
$ vault write auth/kubernetes/role/consul-client \
   bound_service_account_names=<Consul client service account> \
   bound_service_account_namespaces=<Consul installation namespace> \
   policies=license-policy \
   ttl=1h
```

To find out the service account names of the Consul server and client,
you can
 run the following `helm template` commands with your Consul on Kubernetes values file:

- Generate Consul server service account name
 ```shell-session
 $ helm template --release-name ${RELEASE_NAME} -s templates/server-serviceaccount.yaml hashicorp/consul -f values.yaml
 ```

- Generate Consul client service account name

```shell-session
$ helm template --release-name ${RELEASE_NAME} -s templates/client-serviceaccount.yaml hashicorp/consul -f values.yaml
```

Update Consul on Kubernetes Helm chart.

Now that you have configured Vault, you can configure the Consul Helm chart to
use the enterprise enterprise license in Vault:

<CodeBlockConfig filename="values.yaml">

```yaml
global:
 image: hashicorp/consul-enterprise:1.12.0-ent
 secretsBackend:
   vault:
     enabled: true
     consulServerRole: consul-server
     consulClientRole: consul-client
 enterpriseLicense:
   secretName: consul-kv/data/secret/enterpriselicense
   secretKey: key
```

</CodeBlockConfig>

Note
 that `global.enterpriseLicense.secretName` is the path of the secret in Vault.
This should be the same path as the one you included in your Vault policy.
`global.enterpriseLicense.secretKey` is the key inside the secret data. This should be the same
as the key you passed when creating the enterprise license secret in Vault.
{{!
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}}

<Hds::Alert @type='inline' @color={{or @type "neutral"}} class='mb-2 mt-2 consul-intention-notice-custom-resource' as |A|>
 <A.Title>Intention Custom Resource</A.Title>
 <A.Description>Some of your intentions are being managed through an Intention Custom Resource in your Kubernetes cluster. Those managed intentions will be view only in the UI. Any intentions created in the UI will work but will not be synced to the Custom Resource Definition (CRD) datastore.</A.Description>
 <A.Link::Standalone @href="{{env 'CONSUL_DOCS_URL'}}/k8s/crds"
                @text='Learn more about CRDs'
                @icon="docs-link"
                @iconPosition="trailing"
                @size="small" />

```
</Hds::Alert>
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

.consul-intention-permission-form {
 h2 {
   border-top: 1px solid var(--token-color-foreground-action);
   @extend %display-400-semibold;
 }
 button.type-submit {
   @extend %frame-blue-300;
 }
 button.type-submit:hover:not(:disabled),
 button.type-submit:focus:not(:disabled) {
   @extend %frame-blue-500;
 }
 button.type-submit:disabled {
   @extend %frame-blue-200;
 }
}

.consul-intention-view {
 h2 {
   @extend %display-400-semibold;
 }
}
```

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means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"

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---
layout: docs
page_title: Consul-Terraform-Sync Enterprise License
description: >-
Consul-Terraform-Sync Enterprise License

Consul-Terraform-Sync Enterprise License

<EnterpriseAlert>
Licenses are only required for Consul-Terraform-Sync (CTS) Enterprise
</EnterpriseAlert>

CTS Enterprise binaries require a [Consul Enterprise license](/consul/docs/enterprise/license/overview) to run. There is no CTS Enterprise specific license. As a result, CTS Enterprise's licensing is very similar to Consul Enterprise.

All CTS Enterprise features are available with a valid Consul Enterprise license, regardless of your Consul Enterprise packaging or pricing model.

To get a trial license for CTS, you can sign-up for the [trial license for Consul Enterprise](/consul/docs/enterprise/license/faq#q-where-can-users-get-a-trial-license-for-consul-enterprise).

Automatic License Retrieval

CTS automatically retrieves a license from Consul on startup and then attempts to retrieve a new license once a day. If the current license is reaching its expiration date, CTS attempts to retrieve a license with increased frequency, as defined by the [License Expiration Date Handling](/consul/docs/nia/enterprise/license#license-

expiration-handling).

~> Enabling automatic license retrieval is recommended when using HCP Consul Dedicated, as HCP Consul Dedicated licenses expire more frequently than Consul Enterprise licenses. Without auto-retrieval enabled, you have to restart CTS every time you load a new license.

Setting the License Manually

If a license needs to be manually set, choose one of the following methods (in order of precedence) to set the license:

1. Set the `CONSUL_LICENSE` environment variable to the license string.

  ```shell-session
  export CONSUL_LICENSE=<LICENSE_VALUE>
  ```

1. Set the `CONSUL_LICENSE_PATH` environment variable to the path of the file containing the license.

  ```shell-session
  export CONSUL_LICENSE_PATH=<PATH>/<TO>/<FILE>
  ```

1. To
 point to the file containing the license, in the configuration file, configure the
[`license`](/consul/docs/nia/configuration#license) path option.

  ```hcl
  license {
    path = "<PATH>/<TO>/<FILE>"
  }
  ```

1. To point to the file containing the license, in the configuration file, configure the
[`license_path`](/consul/docs/nia/configuration#license_path) option i. **Deprecated in CTS 0.6.0 and will be removed in a future release. Use [license block](/consul/docs/nia/configuration#license) instead.**

  ```hcl
  license_path = "<PATH>/<TO>/<FILE>"
  ```

~> **Note**: the [options to set the license and the order of precedence](/consul/docs/enterprise/license/overview#binaries-without-built-in-licenses) are the same as Consul Enterprise server agents.
Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license key.

Updating the License Manually

To update the license
when it expires or is near the expiration date and automatic license retrieval is disabled:

1. Update the license environment variable or configuration with the new license value or path to the new license file
1. Stop and restart CTS Enterprise

Once CTS Enterprise starts again, it will pick up the new license and run the tasks with any changes that may have occurred between the stop and restart period.

License Expiration Handling

Licenses have an expiration date and a termination date. The termination date is a time at or after the license expires. CTS Enterprise will cease to function once the termination date has passed.

The time between the expiration and termination dates is a grace period. Grace periods are generally 24-hours, but you should refer to your license agreement for complete terms of your grace period.

When approaching expiration and termination, by default, CTS Enterprise will attempt to retrieve a new license. If auto-retrieval is disabled, CTS Enterprise will
provide notifications in the system logs:

Time period	Behavior - auto-retrieval enabled (default)	Behavior - auto-retrieval disabled
30 days before expiration	License retrieval attempt every 24-hours	Warning-level log every 24-hours
7 days before expiration	License retrieval attempt every 1 hour	Warning-level log every 1 hour
1 day before expiration	License retrieval attempt every 5 minutes	Warning-level log every 5 minutes
1 hour before expiration	License retrieval attempt every 1 minute	Warning-level log every 1 minute
At or after expiration (before termination)	License retrieval attempt every 1 minute	Error-level log every 1 minute
At or after termination	Error-level log and exit	Error-level log and exit

~> **Note**: Notification frequency and [grace period](/consul/docs/enterprise/license/faq#q-is-there-a-grace-period-when-licenses-expire) behavior is the same as Consul Enterprise.

```
/*!
* clipboard.js v2.0.11
* https://clipboardjs.com/
*
* Licensed MIT  Zeno Rocha
*/

/*!
* focus-trap 6.9.4
* @license MIT, https://github.com/focus-trap/focus-trap/blob/master/LICENSE
```

```
*/

/*! ***************************************************************************
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LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.
***************************************************************************
 */

/**
* @license
* Copyright 2017 Google LLC
* SPDX-License-Identifier: BSD-3-Clause
*/

/**
* @license
* Copyright 2019 Google LLC
* SPDX-License-Identifier: BSD-3-Clause
*/
{{!
 Copyright (c) HashiCorp, Inc.
 SPDX-License-Identifier: BUSL-1.1
}}

{{#if (gt items.length 0)}}
<ListCollection
 class="consul-intention-permission-list{{if (not onclick) ' readonly'}}"
 @scroll="native"
 @items={{items}}
 @partial={{5}}
as |item|>
 <BlockSlot @name="details">
   <div onclick={{action (optional onclick) item}}>
     <strong class={{concat 'intent-' item.Action}}>{{capitalize item.Action}}</strong>
{{#if (gt item.HTTP.Methods.length 0)}}
       <dl class="permission-methods">
         <dt>
           <Tooltip>
```

```
            Methods
          </Tooltip>
        </dt>
        <dd>
{{#each item.HTTP.Methods as |item|}}
          {{item}}
{{/each}}
        </dd>
      </dl>
{{/if}}
{{#if item.HTTP.Path}}
      <dl class="permission-path">
        <dt>
          <Tooltip>
            {{item.HTTP.PathType}}
          </Tooltip>
        </dt>
        <dd>
          {{item.HTTP.Path}}
        </dd>
      </dl>
{{/if}}
{{#each item.HTTP.Header
 as |item|}}
      <dl class="permission-header">
        <dt>
          <Tooltip>
            Header
          </Tooltip>
        </dt>
        <dd>
          {{item.Name}} {{route-match item}}
        </dd>
      </dl>
{{/each}}
  </div>
 </BlockSlot>
{{#if onclick}}
 <BlockSlot @name="actions" as |Actions|>
   <Actions as |Action|>
     <Action data-test-edit-action @onclick={{action (optional onclick) item}} @close={{true}}>
       <BlockSlot @name="label">
         Edit
       </BlockSlot>
     </Action>
     <Action data-test-delete-action @onclick={{action ondelete item}} class="dangerous">
       <BlockSlot @name="label">
         Delete
```

```
      </BlockSlot>
      <BlockSlot @name="confirmation" as |Confirmation|>
        <Confirmation class="warning">
          <BlockSlot @name="header">
            Confirm delete
          </BlockSlot>
          <BlockSlot @name="body">
            <p>
              Are you sure you
 want to delete this permission?
            </p>
          </BlockSlot>
          <BlockSlot @name="confirm" as |Confirm|>
            <Confirm>Delete</Confirm>
          </BlockSlot>
        </Confirmation>
      </BlockSlot>
    </Action>
  </Actions>
 </BlockSlot>
{{/if}}
</ListCollection>
{{/if}}
{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
   "rules": {
     "policies": {
       "consul-intentions-layer7-0": {
         "permissions": [
           {
             "andRules": {
               "rules": [
                 {
                   "andRules": {
                     "rules": [
                       {
                         "urlPath": {
                           "path": {
                             "prefix": "/v1"
                           }
                         }
                       },
                       {
                         "header": {
                           "name": "x-foo",
                           "presentMatch": true
```

```
            }
          }
        ]
      }
    },
    {
      "notRule": {
        "andRules": {

        "rules": [
          {
            "urlPath": {
              "path": {
                "exact": "/v1/secret"
              }
            }
          },
          {
            "header": {
              "name": "x-baz",
              "presentMatch": true
            }
          },
          {
            "header": {
              "name": "x-bar",
              "presentMatch": true
            }
          }
        ]
      }
    }
  },
  {
    "notRule": {
      "andRules": {
        "rules": [
          {

"urlPath": {
              "path": {
                "exact": "/v1/admin"
              }
            }
          },
          {
            "header": {
              "name": "x-baz",
```

```
                "presentMatch": true
              }
            },
            {
              "header": {
                "name": "x-bar",
                "presentMatch": true
              }
            }
          ]
        }
      }
    }
  ]
}
},
{
  "andRules": {
    "rules": [
      {
        "andRules": {
          "rules": [
            {

"urlPath": {
              "path": {
                "prefix": "/v2"
              }
            }
          },
          {
            "header": {
              "name": "x-foo",
              "presentMatch": true
            }
          }
        ]
      }
    },
    {
      "notRule": {
        "andRules": {
          "rules": [
            {
              "urlPath": {
                "path": {
                  "exact": "/v2/secret"
                }
```

```
                }
              },
              {
                "header": {
                  "name": "x-baz",
                  "presentMatch":
true
                }
              },
              {
                "header": {
                  "name": "x-bar",
                  "presentMatch": true
                }
              }
            ]
          }
        }
      },
      {
        "notRule": {
          "andRules": {
            "rules": [
              {
                "urlPath": {
                  "path": {
                    "exact": "/v2/admin"
                  }
                }
              },
              {
                "header": {
                  "name": "x-baz",
                  "presentMatch": true
                }
              },

    {
                "header": {
                  "name": "x-bar",
                  "presentMatch": true
                }
              }
            ]
          }
        }
      }
    ]
```

```
          }
        }
      ],
      "principals": [
        {
          "authenticated": {
            "principalName": {
              "safeRegex": {
                "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
              }
            }
          }
        }
      ]
    }
  }
 }
}
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

.agentless-node-notice .hds-alert__title {
 display: flex;
 justify-content: space-between;
}
Mozilla Public License 2.0 (MPLv2.0)
---
layout: commands
page_title: 'Commands: License'
description: >
 The license command provides a datacenter-level view of the Consul
 Enterprise license.
---

# Consul License

Command: `consul license`

<EnterpriseAlert />

The `license` command provides a list of all datacenters that use the Consul Enterprise license applied to the current datacenter.

~> **Warning**: Consul 1.10.0 removed the ability to set and reset the license using the CLI.
See the [licensing documentation](/consul/docs/enterprise/license/overview) for more information about
```

Consul Enterprise license management.

If ACLs are enabled then a token with operator privileges may be required in
order to use this command. Requests are forwarded internally to the leader
if required, so this can be run from any Consul node in a cluster. See the
[ACL Guide](/consul/tutorials/security/access-control-setup-production) for more information.

```text
Usage: consul license <subcommand> [options] [args]

 This command has subcommands
 for managing the Consul Enterprise license
 Here are some simple examples, and more detailed examples are
 available in the subcommands or the documentation.

 Install a new license from a file:

    $ consul license put @consul.license

 Install a new license from stdin:

    $ consul license put -

 Install a new license from a string:

    $ consul license put "<license blob>"

 Retrieve the current license:

    $ consul license get

 Inspect a license:

    $ consul license inspect "<path to license file>"

 Reset the current license:

    $ consul license reset

 For more examples, ask for subcommand help or view the documentation.

Subcommands:
   get       Get the active license
   inspect   Inspect a signed license
   put       Puts a new license in the datacenter
   reset     Resets the license in the datacenter

```

inspect

This command inspects and validates a license. Just like a Consul agent it
can load the license from a file
 on disk or from the `CONSUL_LICENSE` and
`CONSUL_LICENSE_PATH` environment variables.

Usage: `consul license inspect [<options>] [<license file>]`

Inspect a license contained in a file:

```
$ consul license inspect consul.hclic
```

Inspect a license loaded from the environment:

```
$ consul license inspect
```

This will look at the CONSUL_LICENSE environment variable first
and if not present then we will look for the file specified
by the CONSUL_LICENSE_PATH environment variable.

The output looks like this:

```
Source: /consul/config/consul.hclic (path from the CONSUL_LICENSE_PATH environment variable)
Product: consul
License ID: 6089174b-a713-74cf-4c8d-856b86f1ce50
Customer ID: 7c020610-60a2-7ccb-c210-20d899e5f3b4
Installation ID: *
Issue Time: 2020-09-14 19:45:56.212195875 +0000 UTC
Start Time: 2020-09-14 00:00:00 +0000 UTC
Expiration Time: 2021-09-14 23:59:59.999 +0000 UTC
Termination Time: 2021-09-14 23:59:59.999 +0000 UTC
Modules:
    Global Visibility, Routing and Scale
     Governance and Policy
Features:
    Automated Backups
    Automated Upgrades
    Enhanced Read Scalability
    Network Segments
    Redundancy Zone
    Advanced Network Federation
```

Namespaces
SSO
Audit Logging
Admin Partitions

License is valid

```

## put

-> **Deprecated** The ability to manage the cluster's license via the CLI
was removed in Consul 1.10. While the CLI command still exists it will
always return an error. This command will be fully removed in a future release.

Corresponding HTTP API Endpoint: [\[PUT\] /v1/operator/license](/consul/api-docs/operator/license#updating-the-consul-license)

This command sets the Consul Enterprise license.

The table below shows this command's [required ACLs](/consul/api-docs/api-structure#authentication). Configuration of
[blocking queries](/consul/api-docs/features/blocking) and [agent caching](/consul/api-docs/features/caching)
are not supported from commands, but may be
 from the corresponding HTTP endpoint.

| ACL Required |
| --- |
| `operator:write` |

Usage: `consul license put [options] LICENSE`

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
    Automated Backups
    Automated Upgrades
    Enhanced Read Scalability
    Network Segments
    Redundancy Zone
    Advanced Network Federation

```

API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

get

Corresponding HTTP API Endpoint: [\[GET\] /v1/operator/license](/consul/api-docs/operator/license#getting-the-consul-license)

This command gets the Consul Enterprise license. If the leader hasn't been updated with the newer license, the followers
will display the outdated license in their GET output.

The table below
 shows this command's [required ACLs](/consul/api-docs/api-structure#authentication). Configuration of [blocking queries](/consul/api-docs/features/blocking) and [agent caching](/consul/api-docs/features/caching) are not supported from commands, but may be from the corresponding HTTP endpoint.

ACL Required
`none`

Usage: `consul license get [options]`

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
    Automated Backups
    Automated Upgrades
    Enhanced Read Scalability
    Network Segments
    Redundancy Zone
    Advanced Network Federation
```

API Options
```

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

reset

-> **Deprecated** The ability to manage the cluster's license via the CLI
was
 removed in Consul 1.10. While the CLI command still exists it will
always return an error. This command will be fully removed in a future release.

Corresponding HTTP API Endpoint: [\[DELETE\] /v1/operator/license](/consul/api-docs/operator/license#resetting-the-consul-license)

Resets license for the datacenter to the one builtin in Consul binary, if it is still valid.
If the builtin license is invalid, the current one stays active.

The table below shows this command's [required ACLs](/consul/api-docs/api-structure#authentication).
Configuration of
[blocking queries](/consul/api-docs/features/blocking) and [agent caching](/consul/api-docs/features/caching)
are not supported from commands, but may be from the corresponding HTTP endpoint.

ACL Required
`operator:write`

Usage: `consul license reset [options]`

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires
 At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
	Automated Backups
	Automated Upgrades
	Enhanced Read Scalability
	Network Segments
	Redundancy Zone
	Advanced Network Federation
```

API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'


```
{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
   "rules": {
     "policies": {
       "consul-intentions-layer7-0": {
         "permissions": [
           {
             "andRules": {
               "rules": [
                 {
                   "urlPath": {
                     "path": {
                       "prefix": "some-path"
                     }
                   }
                 },
                 {
                   "andRules": {
                     "rules": [
                       {
                         "metadata": {
                           "filter": "envoy.filters.http.jwt_authn",
                           "path": [
                             {
                               "key": "jwt_payload_okta"
                             },
                             {
                               "key": "iss"
                             }

                           ],
                           "value": {
                             "stringMatch": {
                               "exact": "mytest.okta-issuer"
                             }
                           }
                         }
                       },
                       {
                         "metadata": {
                           "filter": "envoy.filters.http.jwt_authn",
                           "path": [
```

```
                    {
                      "key": "jwt_payload_okta"
                    },
                    {
                      "key": "roles"
                    }
                  ],
                  "value": {
                    "stringMatch": {
                      "exact": "testing"
                    }
                  }
                }
              }

        ]
              }
            }
          ]
        }
      }
      ],
      "principals": [
        {
          "authenticated": {
            "principalName": {
              "safeRegex": {
                "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
              }
            }
          }
        }
      ]
    }
  }
 }
}
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

section[data-route='dc.show.license'] {
 @extend %license-route;
}
%license-route .validity {
 @extend %license-validity;
```

```
}
%license-route aside {
 @extend %license-route-learn-more;
}

%license-route h2 {
 @extend %display-400-semibold;
}

%license-validity p {
 color: var(--token-color-foreground-faint);
}
%license-validity dl {
 @extend %horizontal-kv-list;
 @extend %body-300-regular;
}
%license-validity dl .expired + dd {
 @extend %visually-hidden;
}
%license-validity dl dt::before {
 content: '';
 margin-right: 0.25rem; /* 4px */
}
%license-validity dl .expired::before {
 --icon-name: icon-x-circle;
 --icon-color: var(--token-color-foreground-critical);
}
%license-validity dl .warning::before {
 --icon-name: icon-alert-circle;
 --icon-color: var(--token-color-foreground-warning);
}
%license-validity dl .valid:not(.warning)::before {
 --icon-name: icon-check-circle;
 --icon-color: var(--token-color-foreground-success);
}

%license-route-learn-more
 {
 @extend %panel;
 box-shadow: none;
 padding: var(--padding-y) var(--padding-x);
 width: 40%;
 min-width: 413px;
 margin-top: 1rem; /* 16px */
}
%license-route-learn-more header > :first-child {
 @extend %display-300-semibold;
}
```

```
%license-route-learn-more header {
 margin-bottom: 1rem; /* 16px */
}
{{!
 Copyright (c) HashiCorp, Inc.
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}}

<Route
 @name={{routeName}}
as |route|>
 <DataLoader
   @src={{
     uri '/${partition}/${nspace}/${dc}/license'
     (hash
       partition=route.params.partition
       nspace=route.params.nspace
       dc=route.params.dc
     )
   }}
 as |loader|>

{{#let
 loader.data
as |item|}}
   <BlockSlot @name="error">
     <ErrorState
       @error={{loader.error}}
       @login={{route.model.app.login.open}}
     />
   </BlockSlot>

   <BlockSlot @name="disconnected" as |after|>
     {{#if (eq loader.error.status "404")}}
       <Hds::Toast @color='warning'
         {{notification
           sticky=true
         }} as |T|>
         <T.Title>Warning!</T.Title>
         <T.Description>This service has been deregistered and no longer exists in the catalog.</T.Description>
       </Hds::Toast>
     {{else if (eq loader.error.status "403")}}
       <Hds::Toast @color='critical'
         {{notification
            sticky=true
         }} as |T|>
         <T.Title>Error!</T.Title>
         <T.Description>You no longer have access to this service.</T.Description>
```

```
    </Hds::Toast>
  {{else}}
    <Hds::Toast @color='warning'
      {{notification
        sticky=true
      }} as |T|>
      <T.Title>Warning!</T.Title>
      <T.Description>An error was returned whilst loading this data, refresh to try again.</T.Description>
    </Hds::Toast>
  {{/if}}
</BlockSlot>

<BlockSlot @name="loaded">
  <div class="tab-section">
    <section
      class={{class-map
        'validity'
        (array 'valid' item.Valid)
      }}
    >
      <header>
        <h2>
          {{compute (fn route.t 'expiry.header')}}
        </h2>
      </header>

      <p>
        {{compute (fn route.t 'expiry.${type}.body'
          (hash
            type=(if item.Valid 'valid' 'expired')

   date=(format-time item.License.expiration_time
              year='numeric'
              month='long'
              day='numeric'
            )
            time=(format-time item.License.expiration_time
              hour12=true
              hour='numeric'
              hourCycle='h12'
              minute='numeric'
              second='numeric'
              timeZoneName='short'
            )
            htmlSafe=true
          )
        )}}
      </p>
```

```
      <dl>
        <dt class={{class-map
            (array 'valid' item.Valid)
            (array 'expired' (not item.Valid))
            (array 'warning' (temporal-within item.License.expiration_time 2629800000))
          }}
        >
          {{compute (fn route.t 'expiry.${type}.header'
            (hash
              type=(if item.Valid 'valid' 'expired')
            )
          )}}
        </dt>

  <dd>
          {{temporal-format item.License.expiration_time}}
        </dd>
      </dl>

      <aside>
        <header>
          <h3>
            {{compute (fn route.t 'documentation.title')}}
          </h3>
        </header>
        <div class="flex gap-1.5 flex-col">
          <Hds::Link::Standalone
            @text={{compute (fn route.t 'documentation.links.license-expiration.text')}}
            @href='{{concat (env 'CONSUL_DOCS_URL') (compute (fn route.t 'documentation.links.license-
expiration.link'))}}'
            @icon='docs-link'
            @iconPosition='trailing'
          />
          <Hds::Link::Standalone
            @text={{compute (fn route.t 'documentation.links.renewing-license.text')}}
            @href='{{concat (env 'CONSUL_DOCS_URL') (compute (fn route.t 'documentation.links.renewing-
license.link'))}}'
            @icon='docs-link'
            @iconPosition='trailing'

        />
          <Hds::Link::Standalone
            @text={{compute (fn route.t 'documentation.links.applying-new-license.text')}}
            @href='{{concat (env 'CONSUL_DOCS_URL') (compute (fn route.t 'documentation.links.applying-new-
license.link'))}}'
            @icon='docs-link'
            @iconPosition='trailing'
```

```
            />
          </div>
        </aside>

      </section>
    </div>
  </BlockSlot>
{{/let}}
 </DataLoader>
</Route>
// Copyright (c) HashiCorp, Inc.
// SPDX-License-Identifier: MPL-2.0

package api

import (
 "io"
 "strings"
 "time"
)

type License struct {
 // The unique identifier of the license
 LicenseID string `json:"license_id"`

 // The customer ID associated with the license
 CustomerID string `json:"customer_id"`

 // If set, an identifier that should be used to lock the license to a
 // particular site, cluster, etc.
 InstallationID string `json:"installation_id"`

 // The time at which the license was issued
 IssueTime time.Time `json:"issue_time"`

 // The time at which the license starts being valid
 StartTime time.Time `json:"start_time"`

 // The time after which the license expires
 ExpirationTime time.Time `json:"expiration_time"`

 // The time at which the license ceases to function and can
 // no longer be used in any capacity
 TerminationTime time.Time `json:"termination_time"`

 // Whether the license will ignore termination
 IgnoreTermination bool `json:"ignore_termination"`
```

```
 //
 The product the license is valid for
 Product string `json:"product"`

 // License Specific Flags
 Flags map[string]interface{} `json:"flags"`

 // Modules is a list of the licensed enterprise modules
 Modules []string `json:"modules"`

 // List of features enabled by the license
 Features []string `json:"features"`
}

type LicenseReply struct {
 Valid    bool
 License  *License
 Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
 var reply LicenseReply
 if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
  return nil, err
 } else {
  return &reply, nil
 }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
 r := op.c.newRequest("GET", "/v1/operator/license")
 r.params.Set("signed", "1")
 r.setQueryOptions(q)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return "", err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return "", err
 }

 data, err := io.ReadAll(resp.Body)
 if
 err != nil {
  return "", err
 }
```

```
 return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r := op.c.newRequest("DELETE", "/v1/operator/license")
 r.setWriteOptions(opts)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return nil, err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return nil, err
 }
 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
 }
 return &reply, nil
}

// LicensePut will configure the Consul Enterprise license for the target datacenter
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set
 via agent configuration instead of through the API
func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r := op.c.newRequest("PUT", "/v1/operator/license")
 r.setWriteOptions(opts)
 r.body = strings.NewReader(license)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return nil, err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return nil, err
 }

 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
 }
```

```
 return &reply, nil
}
---
layout: docs
page_title: Enterprise Licenses
description: >-
 Consul Enterprise server, client, and snapshot agents require a license on startup in order to use Enterprise features.
Learn how to apply licenses using environment variables or configuration files.
---

# Consul Enterprise License

## Licensing Overview

All Consul Enterprise agents must be licensed when they are started. Where that license comes from will depend
on which binary is in use, whether the agent is a server, client or snapshot agent, and whether ACLs have been
enabled for the cluster.

-> ** Consul Enterprise 1.10.0 removed temporary licensing.** Prior to 1.10.0, Consul Enterprise
agents could start without a license and then have a license applied to them later on via the CLI
or API. That functionality has been removed and replaced with the ability to load licenses from the
agent's configuration or environment. Also, prior to 1.10.0, server agents would automatically propagate
the license between themselves.
 This no longer occurs and the license must be present on each server agent
when it is started.

Consul Enterprise 1.14.0, when running on Kubernetes, removed client agents and replaced these with virtual
agents.
Virtual agents are nodes that Consul service mesh services run on. HashiCorp uses virtual agents to determine
license entitlements for customers on per-node licensing and pricing agreements.

-> Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-
license?utm_source=docs) for detailed steps on how to install the license key.

### Applying a License

For Consul Enterprise 1.10.0 or greater, a license must be available at the time the agent starts.
For server agents this means that they must either have the [`license_path`](/consul/docs/agent/config/config-
files#license_path)
configuration set or have a license configured in the servers environment with the `CONSUL_LICENSE` or
`CONSUL_LICENSE_PATH` environment variables. Both the configuration
 item and the `CONSUL_LICENSE_PATH`
environment variable point to a file containing the license whereas the `CONSUL_LICENSE` environment
variable should contain the license as the value. If multiple variables are set,
the following order of precedence applies:

1. `CONSUL_LICENSE` environment variable
```

2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

Client agents and [snapshot agents](/consul/docs/enterprise/backups)
may also be licensed in the very same manner.
However, to avoid the need to configure the license on many client agents and snapshot agents,
those agents have the capability to retrieve the license automatically under the conditions described below.

Virtual agents do not need the license to run.

Updating the license for an agent depends on the method you used to apply the license.
- **If you used the `CONSUL_LICENSE`
environment variable**: After updating the environment variable, restart the affected agents.
- **If you used the
`CONSUL_LICENSE_PATH`
environment variable**: Update the license file first. Then, restart the affected agents.
- **If you used the `license_path` configuration item**: Update the license file first. Then, run [`consul
reload`](/consul/commands/reload) for the affected agents.

Client Agent License Retrieval

When a client agent starts without a license in its configuration or environment, it will try to retrieve the
license from the servers via RPCs. That RPC always requires a valid non-anonymous ACL token to authorize the
request but the token doesn't need any particular permissions. As the license is required before the client
actually joins the cluster, where to make those RPC requests to is inferred from the
[`retry_join`](/consul/docs/agent/config/config-files#retry_join) configuration. If `retry_join` is unset or no
[`agent` token](/consul/docs/agent/config/config-files#acl_tokens_agent) is set then the client agent will
immediately shut itself down.

If all preliminary checks
pass the client agent will attempt to reach out to any server on its RPC port to
request the license. These requests will be retried for up to 5 minutes and if it is unable to retrieve a
license within that time frame it will shut itself down.

If ACLs are disabled then the license must be provided to the client agent through one of the three methods listed
below.
Failure in providing the client agent with a licence will prevent the client agent from joining the cluster.

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

Snapshot Agent License Retrieval

The snapshot agent has similar functionality to the client agent for automatically retrieving the license. However,
instead of requiring a server agent to talk to, the snapshot agent can request the license from the server or
client agent it would use for all other operations. It still requires an ACL token to authorize the request. Also
like client agents,

```
 the snapshot agent will shut itself down after being unable to retrieve the license for 5
minutes.
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

.consul-intention-permission-header-list {
 dt::before {
   @extend %with-glyph-icon;
   content: 'H';
 }
}
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

.consul-intention-permission-list {
 .detail > div {
   display: flex;
   width: 100%;
 }
 strong {
   margin-right: 8px;
 }
}
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

.consul-intention-permission-list {
 dt::before {
   @extend %with-glyph-icon;
 }
 dl.permission-methods dt::before {
   content: 'M';
 }
 dl.permission-path dt::before {
   content: 'P';
 }
 dl.permission-header dt::before {
   content: 'H';
 }
}
{{!
 Copyright (c) HashiCorp, Inc.
```

```
 SPDX-License-Identifier: BUSL-1.1
}}

{{#if isVisible}}
 <Hds::Alert @type="inline" class='mb-3 mt-2 agentless-node-notice' data-test-node-agentless-notice as |A|>
   <A.Title>
     <span>{{t 'routes.dc.nodes.index.agentless.notice.header'}}</span>
     <Hds::Button
       @color='secondary'
       @text='Dismiss notice'
       {{on 'click' this.dismissAgentlessNotice}}
       @icon='x'
       @size='small'
       @isIconOnly={{true}}
     />
   </A.Title>
   <A.Description>{{t 'routes.dc.nodes.index.agentless.notice.body'}}</A.Description>
   <A.Link::Standalone @href='{{env "CONSUL_DOCS_DEVELOPER_URL"}}/connect/dataplane'
                       @text={{t 'routes.dc.nodes.index.agentless.notice.footer'}}
                       @icon='docs-link'
                       @iconPosition='trailing' />
 </Hds::Alert>
{{/if}}
/*!
* QUnit 2.19.4
* https://qunitjs.com/
*
* Copyright OpenJS Foundation and other contributors
* Released under the MIT license
* https://jquery.org/license
*/
{{!
 Copyright (c) HashiCorp, Inc.
 SPDX-License-Identifier: BUSL-1.1
}}

<Hds::Alert @type="inline" class="mb-3 mt-2" as |A|>
 <A.Description>{{t "components.consul.intention.notice.permissions.body"}}</A.Description>
 <A.Link::Standalone
   @text={{t "components.consul.intention.notice.permissions.footer"}}
   @href="{{env 'CONSUL_DOCS_URL'}}/connect/intentions"
   @icon="docs-link"
   @iconPosition="trailing"
   @size="small"
 />
</Hds::Alert>
License text copyright (c) 2020 MariaDB Corporation Ab, All Rights Reserved.
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```

Parameters

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MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NON-INFRINGEMENT, AND
TITLE.
{
"name": "envoy.filters.http.jwt_authn",

```
"typedConfig": {
  "@type": "type.googleapis.com/envoy.extensions.filters.http.jwt_authn.v3.JwtAuthentication",
  "providers": {
    "auth0": {
      "issuer": "another-issuer",
      "payloadInMetadata": "jwt_payload_auth0",
      "remoteJwks": {
        "asyncFetch": {
          "fastListener": true
        },
        "httpUri": {
          "cluster": "jwks_cluster_auth0",
          "timeout": "1s",
          "uri": "https://example-auth0.com/.well-known/jwks.json"
        }
      }
    },
    "okta": {
      "issuer": "test-issuer",
      "payloadInMetadata": "jwt_payload_okta",
      "remoteJwks": {
        "asyncFetch": {
          "fastListener": true
        },
        "httpUri": {
          "cluster": "jwks_cluster_okta",
          "timeout": "1s",
          "uri": "https://example-okta.com/.well-known/jwks.json"
        }
      }
    }
  },
  "rules": [
    {

"match": {
        "prefix": "/"
      },
      "requires": {
        "requiresAll": {
          "requirements": [
            {
              "requiresAny": {
                "requirements": [
                  {
                    "providerName": "okta"
                  },
                  {
```

```
                "allowMissingOrFailed": {}
              }
            ]
          }
        },
        {
          "requiresAny": {
            "requirements": [
              {
                "providerName": "auth0"
              },
              {
                "allowMissingOrFailed": {}
              }
            ]
          }
        }
      ]
    }
  }
  ]
 }
}
{{!
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}}

<div
 ...attributes
 class="consul-intention-permission-form"
>
<FormGroup
 @name={{name}}
as |group|>

 {{yield (hash
   submit=(action 'submit' changeset)
   reset=(action 'reset' changeset)

   isDirty=(and changeset.isValid)
   changeset=changeset
 )}}

 <fieldset>
   <div data-property="action">
     <span class="label">
```

```
      Should this permission allow the source connect to the destination?
    </span>
    <div role="radiogroup" class={{if changeset.error.Action ' has-error'}}>
      {{#each intents as |intent|}}
        <label>
          <span>{{capitalize intent}}</span>
          <input
            type="radio"
            name="Action"
            value={{intent}}
            checked={{if (eq changeset.Action intent) 'checked'}}
            onchange={{action (changeset-set changeset 'Action') value="target.value"}}
          />
        </label>
      {{/each}}
    </div>
  </div>
</fieldset>

<fieldset>
  <header>
    <h2>Path</h2>
  </header>
  <div>
      <group.Element
        @name="PathType"
        @type="select"
      as |el|>
        <el.Label>
          Path type
        </el.Label>
        <PowerSelect
          @options={{pathTypes}}
          @selected={{pathType}}
          @onChange={{action 'change' 'HTTP.PathType' changeset}} as |Type|>
            {{get pathLabels Type}}
        </PowerSelect>
      </group.Element>

{{#if shouldShowPathField}}
      <group.Element
        @name="Path"
        @error={{changeset-get changeset 'error.HTTP.Path'}}
      as |el|>
        <el.Label>
          {{get pathLabels pathType}}
        </el.Label>
        <el.Text
```

```
          @value={{changeset-get changeset 'HTTP.Path'}}
          oninput={{action 'change' 'HTTP.Path' changeset}}
        />
        <State @state={{el.state}} @matches="error">
          <el.Error>

            {{#if (eq (changeset-get changeset 'HTTP.Path') 'Regex')}}
              Path Regex should not be blank
            {{else}}
              Path should begin with a '/'
            {{/if}}
          </el.Error>
        </State>
      </group.Element>
{{/if}}

  </div>
 </fieldset>

 <fieldset>
  <h2>Methods</h2>
  <div class="type-toggle">
    <span>All methods are applied by default unless specified</span>
    <group.Element
      @name="allMethods"
    as |el|>
      <el.Checkbox
        checked={{if allMethods 'checked'}}
        onchange={{action 'change' 'allMethods' changeset}}
      />
      <el.Label>
        All Methods
      </el.Label>
    </group.Element>
  </div>

{{#if shouldShowMethods}}
  <div class="checkbox-group" role="group">
    {{#each methods as |method|}}
      <label class="type-checkbox">
        <input
          type="checkbox"
          name="method"
          value={{method}}

  checked={{if (includes method changeset.HTTP.Methods) 'checked'}}
          onchange={{action 'change' 'method' changeset}}
        />
```

```
        <span>{{method}}</span>
      </label>
    {{/each}}
  </div>
{{/if}}
 </fieldset>

 <fieldset>
  <h2>Headers</h2>

  <Consul::Intention::Permission::Header::List
    @items={{changeset-get changeset 'HTTP.Header'}}
    @ondelete={{action 'delete' 'HTTP.Header' changeset}}
  as |headerList|>

  </Consul::Intention::Permission::Header::List>

  <Consul::Intention::Permission::Header::Form
    @onsubmit={{action 'add' 'HTTP.Header' changeset}}
  as |headerForm|>
    <Ref @target={{this}} @name="headerForm" @value={{headerForm}} />
  </Consul::Intention::Permission::Header::Form>

  <Hds::ButtonSet>
    <Hds::Button
      data-test-add-header
      @text='Add{{if (gt (get (changeset-get changeset 'HTTP.Header') 'length') 0) ' another' ''}} header'
      @color='primary'
      disabled={{if (not this.headerForm.isDirty)
 'disabled'}}
      onclick={{action this.headerForm.submit}}
    />
    <Hds::Button
      @text='Cancel'
      @color='secondary'
      onclick={{action this.headerForm.reset}}
    />
  </Hds::ButtonSet>
 </fieldset>
 </FormGroup>
</div>
```

1.3280 jaraco-collections 5.1.0

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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Version 3.1, 31 March 2009

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1.3283 x-time 0.7.0

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1.3284 googlecloudgoiam 1.1.13

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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
```

```
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
```

```
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
```

```
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*computepb.LicensesListResponse)
 }
```

```
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
```

```
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}
```

```
func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
```

```
// TODO: Use resp.
_ = resp
}
```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.34.2
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
```

```
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
```

```
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
```

```
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
```

```
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
```

```
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
```

0x0b, 0x67,
0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
0x64,
0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
0x72, 0x6f, 0x74, 0x6f, 0x33,

```
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []any{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func
 file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
```

```
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
type x struct{}
out := protoimpl.TypeBuilder{
 File: protoimpl.DescBuilder{
  GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
  RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
  NumEnums:      2,
  NumMessages:   1,
  NumExtensions: 0,
  NumServices:   0,
 },
 GoTypes:           file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
 DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
 EnumInfos:
        file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
 MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
// Copyright 2024 Google LLC
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//     https://www.apache.org/licenses/LICENSE-2.0
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// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute
```

```
import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete             []gax.CallOption
 Get                []gax.CallOption
 GetIamPolicy       []gax.CallOption
 Insert             []gax.CallOption
 List               []gax.CallOption
 SetIamPolicy       []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
```

```
    },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
   }),
  },
  SetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000
 * time.Millisecond),
  },
 }
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
```

```
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
```

```
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}
```

```
// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
```

```
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient
 = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}
```

```
// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
```

```
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf,
err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()),
 "license", url.QueryEscape(req.GetLicense()))}
```

```
 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err
 := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
```

```
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and
 context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp);
 err != nil {
   return err
```

```
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId",
 fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

 hds = append(c.xGoogHeaders, hds...)
```

```
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err !=
nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
```

```
 return op, nil
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient)
 List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
  }
  if req != nil && req.MaxResults != nil {
   params.Add("maxResults",
 fmt.Sprintf("%v", req.GetMaxResults()))
  }
  if req != nil && req.OrderBy != nil {
   params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
  }
  if req != nil && req.PageToken != nil {
   params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
  }
  if req != nil && req.ReturnPartialSuccess != nil {
   params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
  }

  baseUrl.RawQuery = params.Encode()
```

```
 // Build HTTP headers from client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return
err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
```

```
  it.items = append(it.items, items...)
  return nextPageToken, nil
 }

 it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
 it.pageInfo.MaxSize = int(req.GetMaxResults())
 it.pageInfo.Token = req.GetPageToken()

 return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only
 by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
```

```
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on
 the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
```

```
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type",
 "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return
```

```
 nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
```

1.3285 term 0.25.0

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1.3286 github.com/azure/azure-sdk-for-go/sdk/azcore 1.14.0

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1.3287 googlecloudgotrace 1.10.12

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
```

```
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
```

```
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_Insert()
{
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.InsertLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
}
op, err := c.Insert(ctx, req)
if err != nil {
 // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
 // TODO: Handle error.
}
```

```
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*computepb.LicensesListResponse)
 }
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
```

```
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package procurement_test

import (
 "context"

 procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
 procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
)

func ExampleLicenseManagementClient_EnumerateLicensedUsers_all() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.EnumerateLicensedUsersRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
dUsersRequest.
 }
 for resp, err := range c.EnumerateLicensedUsers(ctx, req).All() {
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
```

}
}
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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.34.2
//  protoc        v4.25.3
// source: google/cloud/commerce/consumer/procurement/v1/license_management_service.proto

package procurementpb

import (
 context "context"
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 grpc "google.golang.org/grpc"
 codes "google.golang.org/grpc/codes"
 status
 "google.golang.org/grpc/status"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
 durationpb "google.golang.org/protobuf/types/known/durationpb"
 fieldmaskpb "google.golang.org/protobuf/types/known/fieldmaskpb"
 timestamppb "google.golang.org/protobuf/types/known/timestamppb"
)

const (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Assignment protocol for a license pool.
type AssignmentProtocol struct {
```

```
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // The type of assignment protocol.
 //
 // Types that are assignable to AssignmentType:
 //
 // *AssignmentProtocol_ManualAssignmentType_
 // *AssignmentProtocol_AutoAssignmentType_
 AssignmentType
 isAssignmentProtocol_AssignmentType `protobuf_oneof:"assignment_type"`
}

func (x *AssignmentProtocol) Reset() {
 *x = AssignmentProtocol{}
 if protoimpl.UnsafeEnabled {
  mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *AssignmentProtocol) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol) ProtoMessage() {}

func (x *AssignmentProtocol) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol) Descriptor() ([]byte,
 []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
```

```
[]int{0}
}

func (m *AssignmentProtocol) GetAssignmentType() isAssignmentProtocol_AssignmentType {
 if m != nil {
  return m.AssignmentType
 }
 return nil
}

func (x *AssignmentProtocol) GetManualAssignmentType() *AssignmentProtocol_ManualAssignmentType {
 if x, ok := x.GetAssignmentType().(*AssignmentProtocol_ManualAssignmentType_); ok {
  return x.ManualAssignmentType
 }
 return nil
}

func (x *AssignmentProtocol) GetAutoAssignmentType() *AssignmentProtocol_AutoAssignmentType {
 if x, ok := x.GetAssignmentType().(*AssignmentProtocol_AutoAssignmentType_); ok {
  return x.AutoAssignmentType
 }
 return nil
}

type isAssignmentProtocol_AssignmentType interface {
 isAssignmentProtocol_AssignmentType()
}

type AssignmentProtocol_ManualAssignmentType_ struct {
 // Allow manual assignments triggered by administrative operations only.
 ManualAssignmentType *AssignmentProtocol_ManualAssignmentType
 `protobuf:"bytes,2,opt,name=manual_assignment_type,json=manualAssignmentType,proto3,oneof"`
}

type AssignmentProtocol_AutoAssignmentType_ struct {
 // Allow automatic assignments triggered by data plane operations.
 AutoAssignmentType *AssignmentProtocol_AutoAssignmentType
`protobuf:"bytes,3,opt,name=auto_assignment_type,json=autoAssignmentType,proto3,oneof"`
}

func (*AssignmentProtocol_ManualAssignmentType_) isAssignmentProtocol_AssignmentType() {}

func (*AssignmentProtocol_AutoAssignmentType_) isAssignmentProtocol_AssignmentType() {}

// A license pool represents a pool of licenses that can be assigned to users.
type LicensePool struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
```

```
 unknownFields protoimpl.UnknownFields

 // Identifier. Format:
 // `billingAccounts/{billing_account}/orders/{order}/licensePool`
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Required. Assignment protocol for the license
 pool.
 LicenseAssignmentProtocol *AssignmentProtocol
`protobuf:"bytes,2,opt,name=license_assignment_protocol,json=licenseAssignmentProtocol,proto3"
json:"license_assignment_protocol,omitempty"`
 // Output only. Licenses count that are available to be assigned.
 AvailableLicenseCount int32
`protobuf:"varint,3,opt,name=available_license_count,json=availableLicenseCount,proto3"
json:"available_license_count,omitempty"`
 // Output only. Total number of licenses in the pool.
 TotalLicenseCount int32 `protobuf:"varint,4,opt,name=total_license_count,json=totalLicenseCount,proto3"
json:"total_license_count,omitempty"`
}

func (x *LicensePool) Reset() {
 *x = LicensePool{}
 if protoimpl.UnsafeEnabled {
  mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *LicensePool) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*LicensePool)
 ProtoMessage() {}

func (x *LicensePool) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}
```

```
// Deprecated: Use LicensePool.ProtoReflect.Descriptor instead.
func (*LicensePool) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{1}
}

func (x *LicensePool) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *LicensePool) GetLicenseAssignmentProtocol() *AssignmentProtocol {
 if x != nil {
  return x.LicenseAssignmentProtocol
 }
 return nil
}

func (x *LicensePool) GetAvailableLicenseCount() int32 {
 if x != nil {
  return x.AvailableLicenseCount
 }
 return 0
}

func (x *LicensePool)
 GetTotalLicenseCount() int32 {
 if x != nil {
  return x.TotalLicenseCount
 }
 return 0
}

// Request message for getting a license pool.
type GetLicensePoolRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. The name of the license pool to get.
 // Format: `billingAccounts/{billing_account}/orders/{order}/licensePool`
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
}
```

```
func (x *GetLicensePoolRequest) Reset() {
 *x = GetLicensePoolRequest{}
 if protoimpl.UnsafeEnabled {
  mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *GetLicensePoolRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*GetLicensePoolRequest) ProtoMessage() {}

func (x *GetLicensePoolRequest) ProtoReflect() protoreflect.Message
 {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use GetLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*GetLicensePoolRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{2}
}

func (x *GetLicensePoolRequest) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

// Request message for updating a license pool.
type UpdateLicensePoolRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
```

```
 unknownFields protoimpl.UnknownFields

 // Required. The license pool to update.
 //
 // The license pool's name field is used to identify the license pool to
 // update. Format:
 //
 `billingAccounts/{billing_account}/orders/{order}/licensePool`.
 LicensePool *LicensePool `protobuf:"bytes,1,opt,name=license_pool,json=licensePool,proto3"
json:"license_pool,omitempty"`
 // Required. The list of fields to update.
 UpdateMask *fieldmaskpb.FieldMask `protobuf:"bytes,2,opt,name=update_mask,json=updateMask,proto3"
json:"update_mask,omitempty"`
}

func (x *UpdateLicensePoolRequest) Reset() {
 *x = UpdateLicensePoolRequest{}
 if protoimpl.UnsafeEnabled {
  mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *UpdateLicensePoolRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*UpdateLicensePoolRequest) ProtoMessage() {}

func (x *UpdateLicensePoolRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
 if
 protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use UpdateLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*UpdateLicensePoolRequest) Descriptor() ([]byte, []int) {
 return
```

```
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{3}
}

func (x *UpdateLicensePoolRequest) GetLicensePool() *LicensePool {
 if x != nil {
  return x.LicensePool
 }
 return nil
}

func (x *UpdateLicensePoolRequest) GetUpdateMask() *fieldmaskpb.FieldMask {
 if x != nil {
  return x.UpdateMask
 }
 return nil
}

// Request message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementServic
e.Assign].
type AssignRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 //
 Required. License pool name.
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Required. Username.
 // Format: `name@domain.com`.
 Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func (x *AssignRequest) Reset() {
 *x = AssignRequest{}
 if protoimpl.UnsafeEnabled {
  mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *AssignRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}
```

```
func (*AssignRequest) ProtoMessage() {}

func (x *AssignRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return
 ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignRequest.ProtoReflect.Descriptor instead.
func (*AssignRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{4}
}

func (x *AssignRequest) GetParent() string {
 if x != nil {
  return x.Parent
 }
 return ""
}

func (x *AssignRequest) GetUsernames() []string {
 if x != nil {
  return x.Usernames
 }
 return nil
}

// Response message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementServic
e.Assign].
type AssignResponse struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
}
```

```
func (x *AssignResponse) Reset() {
 *x = AssignResponse{}
 if protoimpl.UnsafeEnabled {
  mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func
 (x *AssignResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignResponse) ProtoMessage() {}

func (x *AssignResponse) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignResponse.ProtoReflect.Descriptor instead.
func (*AssignResponse) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{5}
}

// Request message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignRequest struct {
 state         protoimpl.MessageState
 sizeCache
     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. License pool name.
```

```
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Required. Username.
 // Format: `name@domain.com`.
 Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func (x *UnassignRequest) Reset() {
 *x = UnassignRequest{}
 if protoimpl.UnsafeEnabled {
  mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *UnassignRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*UnassignRequest) ProtoMessage() {}

func (x *UnassignRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if
 ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use UnassignRequest.ProtoReflect.Descriptor instead.
func (*UnassignRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{6}
}

func (x *UnassignRequest) GetParent() string {
 if x != nil {
  return x.Parent
 }
 return ""
```

```
}

func (x *UnassignRequest) GetUsernames() []string {
 if x != nil {
  return x.Usernames
 }
 return nil
}

// Response message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignResponse struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
}

func (x *UnassignResponse) Reset() {
 *x = UnassignResponse{}
 if protoimpl.UnsafeEnabled {
  mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
  ms
 := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *UnassignResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*UnassignResponse) ProtoMessage() {}

func (x *UnassignResponse) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}
```

```
// Deprecated: Use UnassignResponse.ProtoReflect.Descriptor instead.
func (*UnassignResponse) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{7}
}

// Request message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type
 EnumerateLicensedUsersRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. License pool name.
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Optional. The maximum number of users to return. The service may return
 // fewer than this value.
 PageSize int32 `protobuf:"varint,2,opt,name=page_size,json=pageSize,proto3" json:"page_size,omitempty"`
 // Optional. A page token, received from a previous `EnumerateLicensedUsers`
 // call. Provide this to retrieve the subsequent page.
 PageToken string `protobuf:"bytes,3,opt,name=page_token,json=pageToken,proto3" json:"page_token,omitempty"`
}

func (x *EnumerateLicensedUsersRequest) Reset() {
 *x = EnumerateLicensedUsersRequest{}
 if protoimpl.UnsafeEnabled {
  mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
  ms
 := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *EnumerateLicensedUsersRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersRequest) ProtoMessage() {}

func (x *EnumerateLicensedUsersRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
```

```
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersRequest.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{8}
}

func (x *EnumerateLicensedUsersRequest) GetParent() string {
 if
 x != nil {
  return x.Parent
 }
 return ""
}

func (x *EnumerateLicensedUsersRequest) GetPageSize() int32 {
 if x != nil {
  return x.PageSize
 }
 return 0
}

func (x *EnumerateLicensedUsersRequest) GetPageToken() string {
 if x != nil {
  return x.PageToken
 }
 return ""
}

// A licensed user.
type LicensedUser struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Username.
 // Format: `name@domain.com`.
 Username string `protobuf:"bytes,1,opt,name=username,proto3" json:"username,omitempty"`
```

```
 // Output only. Timestamp when the license was assigned.
 AssignTime *timestamppb.Timestamp `protobuf:"bytes,2,opt,name=assign_time,json=assignTime,proto3"
json:"assign_time,omitempty"`
 // Output only. Timestamp when the license was recently used. This may not be
 // the most recent usage time, and will be updated regularly (within 24
 // hours).
 RecentUsageTime *timestamppb.Timestamp
`protobuf:"bytes,3,opt,name=recent_usage_time,json=recentUsageTime,proto3"
 json:"recent_usage_time,omitempty"`
}

func (x *LicensedUser) Reset() {
 *x = LicensedUser{}
 if protoimpl.UnsafeEnabled {
  mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *LicensedUser) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*LicensedUser) ProtoMessage() {}

func (x *LicensedUser) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use LicensedUser.ProtoReflect.Descriptor instead.
func (*LicensedUser) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
 []int{9}
}

func (x *LicensedUser) GetUsername() string {
```

```
 if x != nil {
  return x.Username
 }
 return ""
}

func (x *LicensedUser) GetAssignTime() *timestamppb.Timestamp {
 if x != nil {
  return x.AssignTime
 }
 return nil
}

func (x *LicensedUser) GetRecentUsageTime() *timestamppb.Timestamp {
 if x != nil {
  return x.RecentUsageTime
 }
 return nil
}

// Response message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersResponse struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // The list of licensed users.
 LicensedUsers []*LicensedUser `protobuf:"bytes,1,rep,name=licensed_users,json=licensedUsers,proto3"
json:"licensed_users,omitempty"`
 // A token that can be sent as `page_token` to retrieve the next page.
 //
 If this field is omitted, there are no subsequent pages.
 NextPageToken string `protobuf:"bytes,2,opt,name=next_page_token,json=nextPageToken,proto3"
json:"next_page_token,omitempty"`
}

func (x *EnumerateLicensedUsersResponse) Reset() {
 *x = EnumerateLicensedUsersResponse{}
 if protoimpl.UnsafeEnabled {
  mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}
```

```
func (x *EnumerateLicensedUsersResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersResponse) ProtoMessage() {}

func (x *EnumerateLicensedUsersResponse) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return
 ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersResponse.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersResponse) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{10}
}

func (x *EnumerateLicensedUsersResponse) GetLicensedUsers() []*LicensedUser {
 if x != nil {
  return x.LicensedUsers
 }
 return nil
}

func (x *EnumerateLicensedUsersResponse) GetNextPageToken() string {
 if x != nil {
  return x.NextPageToken
 }
 return ""
}

// Allow manual assignments triggered by administrative operations only.
type AssignmentProtocol_ManualAssignmentType struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
}
```

```
func (x *AssignmentProtocol_ManualAssignmentType) Reset() {
 *x = AssignmentProtocol_ManualAssignmentType{}
 if protoimpl.UnsafeEnabled {
  mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
  ms
 := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *AssignmentProtocol_ManualAssignmentType) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_ManualAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_ManualAssignmentType) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol_ManualAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_ManualAssignmentType) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
 []int{0, 0}
}

// Configuration for automatic assignments handled by data plane operations.
type AssignmentProtocol_AutoAssignmentType struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Optional. The time to live for an inactive license. After this time has
 // passed, the license will be automatically unassigned from the user. Must
 // be at least 7 days, if set. If unset, the license will never expire.
 InactiveLicenseTtl *durationpb.Duration
```

```
`protobuf:"bytes,1,opt,name=inactive_license_ttl,json=inactiveLicenseTtl,proto3"
json:"inactive_license_ttl,omitempty"`
}

func (x *AssignmentProtocol_AutoAssignmentType) Reset() {
 *x = AssignmentProtocol_AutoAssignmentType{}
 if protoimpl.UnsafeEnabled {
  mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func
 (x *AssignmentProtocol_AutoAssignmentType) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_AutoAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_AutoAssignmentType) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol_AutoAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_AutoAssignmentType) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{0, 1}
}

func (x *AssignmentProtocol_AutoAssignmentType) GetInactiveLicenseTtl() *durationpb.Duration {
 if x != nil {
  return x.InactiveLicenseTtl
 }
 return
 nil
}
```

```
var File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto
protoreflect.FileDescriptor

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc =
[]byte{
 0x0a, 0x4e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2f, 0x63,
 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x76, 0x31, 0x2f,
 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x6d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65,
 0x6e, 0x74, 0x5f, 0x73, 0x65, 0x72, 0x76, 0x69, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f,
 0x12, 0x2d, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63,
 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76,
 0x31, 0x1a,
 0x1c, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x61, 0x6e, 0x6e, 0x6f,
 0x74, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x73, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x17, 0x67,
 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x63, 0x6c, 0x69, 0x65, 0x6e, 0x74,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61,
 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f,
 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f,
 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f,
 0x74, 0x6f, 0x1a, 0x1e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
 0x62, 0x75, 0x66, 0x2f, 0x64, 0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x2e, 0x70, 0x72, 0x6f,
 0x74, 0x6f, 0x1a, 0x20, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
 0x62, 0x75, 0x66,
 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x6d, 0x61, 0x73, 0x6b, 0x2e, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f,
 0x74, 0x6f, 0x62, 0x75, 0x66, 0x2f, 0x74, 0x69, 0x6d, 0x65, 0x73, 0x74, 0x61, 0x6d, 0x70, 0x2e,
 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0xc3, 0x03, 0x0a, 0x12, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e,
 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x8e, 0x01, 0x0a,
 0x16, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65,
 0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x56, 0x2e,
 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d,
 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70,
 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73,
 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74,
 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c,
 0x2e, 0x4d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e,
 0x74, 0x54, 0x79, 0x70, 0x65, 0x48, 0x00, 0x52, 0x14, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41,
 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x88, 0x01,
 0x0a, 0x14, 0x61, 0x75, 0x74, 0x6f, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e,
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 0x3a, 0x3a, 0x56, 0x31, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce
sync.Once
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc
)

func
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP()
[]byte {
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce.Do(f
unc() {
  file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_cloud_commerce_consumer_procurement_v1_license_management_servi
ce_proto_rawDescData)
```

```
 })
 return file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
}

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes =
make([]protoimpl.MessageInfo, 13)
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes =
[]any{
 (*AssignmentProtocol)(nil),                    // 0:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
 (*LicensePool)(nil),                           // 1: google.cloud.commerce.consumer.procurement.v1.LicensePool
 (*GetLicensePoolRequest)(nil),
                    // 2: google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
 (*UpdateLicensePoolRequest)(nil),              // 3:
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
 (*AssignRequest)(nil),                         // 4: google.cloud.commerce.consumer.procurement.v1.AssignRequest
 (*AssignResponse)(nil),                        // 5: google.cloud.commerce.consumer.procurement.v1.AssignResponse
 (*UnassignRequest)(nil),                       // 6: google.cloud.commerce.consumer.procurement.v1.UnassignRequest
 (*UnassignResponse)(nil),                      // 7: google.cloud.commerce.consumer.procurement.v1.UnassignResponse
 (*EnumerateLicensedUsersRequest)(nil),         // 8:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
 (*LicensedUser)(nil),                          // 9: google.cloud.commerce.consumer.procurement.v1.LicensedUser
 (*EnumerateLicensedUsersResponse)(nil),
         // 10: google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
 (*AssignmentProtocol_ManualAssignmentType)(nil), // 11:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
 (*AssignmentProtocol_AutoAssignmentType)(nil),   // 12:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
 (*fieldmaskpb.FieldMask)(nil),                 // 13: google.protobuf.FieldMask
 (*timestamppb.Timestamp)(nil),                 // 14: google.protobuf.Timestamp
 (*durationpb.Duration)(nil),                   // 15: google.protobuf.Duration
}
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs =
[]int32{
 11, // 0:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.manual_assignment_type:type_name ->
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
 12, // 1: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.auto_assignment_type:type_name
 -> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
 0,  // 2: google.cloud.commerce.consumer.procurement.v1.LicensePool.license_assignment_protocol:type_name ->
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
 1,  // 3: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.license_pool:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 13, // 4: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.update_mask:type_name ->
google.protobuf.FieldMask
 14, // 5: google.cloud.commerce.consumer.procurement.v1.LicensedUser.assign_time:type_name ->
google.protobuf.Timestamp
 14, // 6: google.cloud.commerce.consumer.procurement.v1.LicensedUser.recent_usage_time:type_name ->
```

```
google.protobuf.Timestamp
 9,  // 7:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse.licensed_users:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensedUser
 15,
 // 8:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType.inactive_license_ttl:t
ype_name -> google.protobuf.Duration
 2,  // 9: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:input_type -
> google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
 3,  // 10:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:input_type ->
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
 4,  // 11: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:input_type ->
google.cloud.commerce.consumer.procurement.v1.AssignRequest
 6,  // 12: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:input_type ->
google.cloud.commerce.consumer.procurement.v1.UnassignRequest
 8,  // 13:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:input_typ
e
 -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
 1,  // 14:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 1,  // 15:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 5,  // 16: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:output_type ->
google.cloud.commerce.consumer.procurement.v1.AssignResponse
 7,  // 17: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:output_type ->
google.cloud.commerce.consumer.procurement.v1.UnassignResponse
 10, // 18:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:output_ty
pe -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
 14, // [14:19] is
 the sub-list for method output_type
 9,  // [9:14] is the sub-list for method input_type
 9,  // [9:9] is the sub-list for extension type_name
 9,  // [9:9] is the sub-list for extension extendee
 0,  // [0:9] is the sub-list for field type_name
}

func init() {
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init()
}
func file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init() {
 if File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto != nil {
  return
```

```
 }
 if !protoimpl.UnsafeEnabled {
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].Exporter = func(v any, i int) any {
   switch v := v.(*AssignmentProtocol); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1].Exporter
 = func(v any, i int) any {
   switch v := v.(*LicensePool); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2].Exporter = func(v any, i int) any {
   switch v := v.(*GetLicensePoolRequest); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3].Exporter = func(v any, i int) any {
   switch v := v.(*UpdateLicensePoolRequest); i {
   case 0:
    return &v.state
   case 1:
```

```
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4].Expor
ter = func(v any, i int)
 any {
   switch v := v.(*AssignRequest); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5].Expor
ter = func(v any, i int) any {
   switch v := v.(*AssignResponse); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6].Expor
ter = func(v any, i int) any {
   switch v := v.(*UnassignRequest); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7].Expor
```

```
ter = func(v any, i int) any {
   switch v := v.(*UnassignResponse); i {
   case
 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8].Expor
ter = func(v any, i int) any {
   switch v := v.(*EnumerateLicensedUsersRequest); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9].Expor
ter = func(v any, i int) any {
   switch v := v.(*LicensedUser); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10].Exp
orter = func(v any, i int) any {
   switch v := v.(*EnumerateLicensedUsersResponse); i {
   case 0:
    return &v.state
   case
 1:
    return &v.sizeCache
   case 2:
```

```
    return &v.unknownFields
   default:
    return nil
   }
  }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11].Exp
orter = func(v any, i int) any {
   switch v := v.(*AssignmentProtocol_ManualAssignmentType); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12].Exp
orter = func(v any, i int) any {
   switch v := v.(*AssignmentProtocol_AutoAssignmentType); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].Oneof
Wrappers = []any{
  (*AssignmentProtocol_ManualAssignmentType_)(nil),
  (*AssignmentProtocol_AutoAssignmentType_)(nil),
 }
 type
 x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc,
   NumEnums:      0,
   NumMessages:   13,
   NumExtensions: 0,
   NumServices:   1,
```

```
  },
  GoTypes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes,
  DependencyIndexes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs,
  MessageInfos:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes,
 }.Build()
 File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto = out.File
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc = nil
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes = nil
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs
 = nil
}

// Reference imports to suppress errors if they are not otherwise used.
var _ context.Context
var _ grpc.ClientConnInterface

// This is a compile-time assertion to ensure that this generated file
// is compatible with the grpc package it is being compiled against.
const _ = grpc.SupportPackageIsVersion6

// LicenseManagementServiceClient is the client API for LicenseManagementService service.
//
// For semantics around ctx use and closing/ending streaming RPCs, please refer to
https://godoc.org/google.golang.org/grpc#ClientConn.NewStream.
type LicenseManagementServiceClient interface {
 // Gets the license pool.
 GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
 // Updates the license pool if one exists for this Order.
 UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool,
 error)
 // Assigns a license to a user.
 Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error)
 // Unassigns a license from a user.
 Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error)
 // Enumerates all users assigned a license.
 EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption)
(*EnumerateLicensedUsersResponse, error)
}

type licenseManagementServiceClient struct {
 cc grpc.ClientConnInterface
}

func NewLicenseManagementServiceClient(cc grpc.ClientConnInterface) LicenseManagementServiceClient {
 return &licenseManagementServiceClient{cc}
```

```
}

func (c *licenseManagementServiceClient) GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts
...grpc.CallOption) (*LicensePool, error) {
 out := new(LicensePool)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool", in, out,
 opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

func (c *licenseManagementServiceClient) UpdateLicensePool(ctx context.Context, in
*UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
 out := new(LicensePool)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool", in, out,
opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

func (c *licenseManagementServiceClient) Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption)
(*AssignResponse, error) {
 out := new(AssignResponse)
 err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign", in,
out, opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

func (c *licenseManagementServiceClient) Unassign(ctx context.Context, in *UnassignRequest, opts
...grpc.CallOption) (*UnassignResponse, error) {
 out := new(UnassignResponse)
 err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
 in, out, opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}
```

```
func (c *licenseManagementServiceClient) EnumerateLicensedUsers(ctx context.Context, in
*EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error) {
 out := new(EnumerateLicensedUsersResponse)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers", in, out,
opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

// LicenseManagementServiceServer is the server API for LicenseManagementService service.
type LicenseManagementServiceServer interface {
 // Gets the license pool.
 GetLicensePool(context.Context, *GetLicensePoolRequest) (*LicensePool, error)
 // Updates the license pool if one exists for this Order.
 UpdateLicensePool(context.Context, *UpdateLicensePoolRequest) (*LicensePool, error)
 // Assigns a license to
 a user.
 Assign(context.Context, *AssignRequest) (*AssignResponse, error)
 // Unassigns a license from a user.
 Unassign(context.Context, *UnassignRequest) (*UnassignResponse, error)
 // Enumerates all users assigned a license.
 EnumerateLicensedUsers(context.Context, *EnumerateLicensedUsersRequest)
(*EnumerateLicensedUsersResponse, error)
}

// UnimplementedLicenseManagementServiceServer can be embedded to have forward compatible
implementations.
type UnimplementedLicenseManagementServiceServer struct {
}

func (*UnimplementedLicenseManagementServiceServer) GetLicensePool(context.Context,
*GetLicensePoolRequest) (*LicensePool, error) {
 return nil, status.Errorf(codes.Unimplemented, "method GetLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) UpdateLicensePool(context.Context,
*UpdateLicensePoolRequest) (*LicensePool, error) {
 return nil, status.Errorf(codes.Unimplemented, "method UpdateLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer)
 Assign(context.Context, *AssignRequest) (*AssignResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method Assign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Unassign(context.Context, *UnassignRequest)
(*UnassignResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method Unassign not implemented")
```

```
}
func (*UnimplementedLicenseManagementServiceServer) EnumerateLicensedUsers(context.Context,
*EnumerateLicensedUsersRequest) (*EnumerateLicensedUsersResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method EnumerateLicensedUsers not implemented")
}

func RegisterLicenseManagementServiceServer(s *grpc.Server, srv LicenseManagementServiceServer) {
 s.RegisterService(&_LicenseManagementService_serviceDesc, srv)
}

func _LicenseManagementService_GetLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in
 := new(GetLicensePoolRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, req.(*GetLicensePoolRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_UpdateLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(UpdateLicensePoolRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod:
 "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, req.(*UpdateLicensePoolRequest))
 }
 return interceptor(ctx, in, info, handler)
```

```
}

func _LicenseManagementService_Assign_Handler(srv interface{}, ctx context.Context, dec func(interface{})
error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(AssignRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).Assign(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).Assign(ctx, req.(*AssignRequest))
 }
 return
 interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Unassign_Handler(srv interface{}, ctx context.Context, dec func(interface{})
error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(UnassignRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).Unassign(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).Unassign(ctx, req.(*UnassignRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_EnumerateLicensedUsers_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(EnumerateLicensedUsersRequest)
 if err
 := dec(in); err != nil {
  return nil, err
 }
```

```
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod:
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx,
req.(*EnumerateLicensedUsersRequest))
 }
 return interceptor(ctx, in, info, handler)
}

var _LicenseManagementService_serviceDesc = grpc.ServiceDesc{
 ServiceName: "google.cloud.commerce.consumer.procurement.v1.LicenseManagementService",
 HandlerType: (*LicenseManagementServiceServer)(nil),
 Methods: []grpc.MethodDesc{
  {
   MethodName: "GetLicensePool",
   Handler:    _LicenseManagementService_GetLicensePool_Handler,
  },
  {
   MethodName: "UpdateLicensePool",
   Handler:    _LicenseManagementService_UpdateLicensePool_Handler,
  },
  {
   MethodName:
 "Assign",
   Handler:    _LicenseManagementService_Assign_Handler,
  },
  {
   MethodName: "Unassign",
   Handler:    _LicenseManagementService_Unassign_Handler,
  },
  {
   MethodName: "EnumerateLicensedUsers",
   Handler:    _LicenseManagementService_EnumerateLicensedUsers_Handler,
  },
 },
 Streams:  []grpc.StreamDesc{},
 Metadata: "google/cloud/commerce/consumer/procurement/v1/license_management_service.proto",
}
// Copyright 2024 Google LLC
//
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// you may not use this file except in compliance with the License.
```

```
// You may obtain a copy of the License at
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// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
```

```
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  SetIamPolicy: []gax.CallOption{
```

```
   gax.WithTimeout(600000 * time.Millisecond),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000
 * time.Millisecond),
  },
 }
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}
```

```
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
```

```
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
```

```
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
```

```
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient
 = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
```

```
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf,
err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

```
// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()),
 "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }
```

```
  if err
 := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and
 context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
```

```
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp);
err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
```

```
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.RequestId != nil {
 params.Add("requestId",
fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err !=
nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }
```

```
 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient)
 List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(uint32(math.MaxInt32))
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
```

```
 }
 if req != nil && req.MaxResults !=
nil {
  params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
 }
 if req != nil && req.OrderBy != nil {
  params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req != nil && req.PageToken != nil {
  params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return
err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
```

```
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for
 use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
```

```
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
```

```
// TestIamPermissions returns permissions that a caller
 has on the specified resource. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type",
 "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
```

```
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return
 nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

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```

```
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test
// Copyright 2024 Google LLC
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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
```

```
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
```

```
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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package procurement_test

import (
 "context"

 procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
 procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
 longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicenseManagementClient() {
 ctx
 := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()
```

```
 // TODO: Use client.
 _ = c
}

func ExampleNewLicenseManagementRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c,
 err := procurement.NewLicenseManagementRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseManagementClient_Assign() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.AssignRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#AssignRequest.
 }
 resp, err := c.Assign(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 //
 TODO: Use resp.
 _ = resp
}
```

```
func ExampleLicenseManagementClient_EnumerateLicensedUsers() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.EnumerateLicensedUsersRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
dUsersRequest.
 }
 it := c.EnumerateLicensedUsers(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  //
 TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*procurementpb.EnumerateLicensedUsersResponse)
 }
}

func ExampleLicenseManagementClient_GetLicensePool() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
```

```
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.GetLicensePoolRequest{
  // TODO: Fill request struct fields.
  //
 See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#GetLicensePoolRe
quest.
 }
 resp, err := c.GetLicensePool(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_Unassign() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.UnassignRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UnassignRequest.
 }
 resp,
 err := c.Unassign(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

```
func ExampleLicenseManagementClient_UpdateLicensePool() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.UpdateLicensePoolRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UpdateLicensePoo
lRequest.
 }
 resp, err := c.UpdateLicensePool(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 //
 TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_GetOperation() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &longrunningpb.GetOperationRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/longrunning/autogen/longrunningpb#GetOperationRequest.
 }
 resp, err := c.GetOperation(ctx, req)
 if err != nil {
  // TODO: Handle error.
```

```
 }
 // TODO: Use resp.
 _ = resp
}
```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.34.2
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"
```

```
 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
```

```
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
```

```
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
```

```
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
```

```
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor
```

```
var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
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 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []any{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
```

```
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func
 file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:           file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:
         file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
```

```
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleLicensesClient_List_all() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications
 to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 for resp, err := range c.List(ctx, req).All() {
```

```
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
 }
}
```

1.3288 github.com/ovh/go-ovh 1.6.0

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1.3289 go.opentelemetry.io/otel/exporters/otlp/otlptr

ace 1.29.0

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1.3290 google-golang-org-api 0.195.0

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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
```

```
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
```

```
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
}
resp,
err := c.Get(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_Insert()
```

```
{
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.InsertLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
}
op, err := c.Insert(ctx, req)
if err != nil {
 // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
 // TODO: Handle error.
}
}

func ExampleLicensesClient_List() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template
only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.ListLicensesRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
```

```
 resp, err := it.Next()
 if err == iterator.Done {
  break
 }
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp

 // If you need to access the underlying RPC response,
 // you can do so by casting the `Response` as below.
 // Otherwise, remove this line. Only populated after
 // first call to Next(). Not safe for concurrent access.
 _ = it.Response.(*computepb.LicensesListResponse)
}
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically
```

```
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
```

```
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
```

```
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseCodeRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
}
resp,
err := c.TestIamPermissions(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
// protoc-gen-go v1.34.2
// protoc   v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

```
const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
```

```
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
```

```
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
```

```
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
```

```
  ms.StoreMessageInfo(mi)
 }
 return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
```

0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
0x19, 0x67, 0x6f,
0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
0x0b, 0x67,
0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,

```
 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
 0x64,
 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
 0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []any{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
```

```
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func
 file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:           file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:
         file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
// Copyright 2024 Google LLC
//
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```

```
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete          []gax.CallOption
 Get             []gax.CallOption
 GetIamPolicy    []gax.CallOption
 Insert          []gax.CallOption
 List            []gax.CallOption
 SetIamPolicy    []gax.CallOption
```

```
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
```

```
  SetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000
 * time.Millisecond),
  },
 }
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}
```

```
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
```

```
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
```

```
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
```

```
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient
 = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
```

```
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf,
err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

```
// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()),
 "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }
```

```
  if err
 := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and
 context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
```

```
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp);
err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
```

```
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.RequestId != nil {
 params.Add("requestId",
fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err !=
nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }
```

```
 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient)
 List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
```

```
 }
 if req != nil && req.MaxResults != nil {
  params.Add("maxResults",
fmt.Sprintf("%v", req.GetMaxResults()))
 }
 if req != nil && req.OrderBy != nil {
  params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req != nil && req.PageToken != nil {
  params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return
err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
```

```
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only
 by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
```

```
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
```

```
// TestIamPermissions returns permissions that a caller has on
 the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type",
 "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
```

```
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return
nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}
```

1.3292 go.opentelemetry.io/otel/sdk 1.29.0

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1.3293 go.opentelemetry.io/otel/exporters/otlp/otlptrace/otlptracehttp 1.29.0

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1.3294 githubcommiekgdns 1.1.62

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1.3295 github.com/grpc-ecosystem/grpc-gateway/v2 2.22.0

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1.3299 amd64-microcode 3.20191218.1ubuntu2.3

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It was downloaded from http://www.amd64.org/support/microcode.html up to
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1.3301 distro-info-data 0.52ubuntu0.8

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1.3302 debootstrap 1.0.126+nmu1ubuntu0.8

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1.3303 prometheus-client 1.20.5

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
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can be directly used with curl / libcurl / php_curl, or with
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@(#) $RCSfile: certdata.txt,v $
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A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes

2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
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2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
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All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
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2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
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2.4.3	2.4.2	2006	PSF	yes
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2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes

2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
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For details about the Python License, please see doc/Python-License.txt.

History

Before (and including) argparse 1.1, the argparse package was licensed under
Apache License v2.0.

After argparse 1.1, all project files from the argparse project were deleted
due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

The project repository then had a clean start with some files taken from
Python 2.7.1, so definitely all files are under Python License now.

A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member
of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no

2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above				
2.1.1	2001-now		PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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Files: gzhttp/*

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1.3307 pythonurllib 1.26.5-1~exp1ubuntu0.2

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Contributions to the urllib3 project

Creator & Maintainer

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Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
 * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
 * NTLM-authenticated HTTPSConnectionPool
 * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
 * Client-verified SSL certificates for HTTPSConnectionPool
 * Response gzip and deflate encoding support
 * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
 * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRlBZDhBFXQB6/>
 * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
 * Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
 * Bugfixes, Improvements and Test
 coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
 * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
 * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
 * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
 * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
 * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
 * Support for TLS SNI

* API unification of ssl_version/cert_reqs
* SSL fingerprint and alternative hostname verification
* Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
* Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
* Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
* Correct six.moves conflict
* Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
* Allowed to skip SSL hostname verification

* Cory Benfield
<https://lukasa.co.uk/about/>
* Stream method for Response objects.
* Return native strings in header values.
* Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
* Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
* Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
* Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
* Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
* Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
* Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
* HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
* Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>

* Disabled TLS compression by default on Python 3.2+
* Disabled TLS compression in pyopenssl contrib module
* Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
* Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
* Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
* HTTPHeaderDict and associated tests and docs
* Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
* Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
* source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
* PEP8 Compliance and Linting
* Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
* Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
* Google App Engine documentation

* Aaron Meurer
<asmeurer@gmail.com>
* Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
* Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
* Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
* Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
* Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
* Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
 * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
 * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
 * App Engine environment tests.
 * Documentation re-write.

* John Krauss <https://github.com/talos>
 * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
 * Fix pool-default headers not applying for url-encoded
 requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
 * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
 * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
 * Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
 * Bugfix for ``ConnectionPool.urlopen(release_conn=False)``.
 * Creation of ``HTTPConnectionPool.ResponseCls``.

* Predrag Gruevski <https://github.com/obi1kenobi>
 * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
 * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
 * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
 * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
 * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
 * Logging efficiency
 improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
 * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>
 * Various character-encoding fixes/tweaks
 * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
 * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
 * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
 * History list to Retry object.
 * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
 * Ensure timeouts are not booleans and greater than zero.
 * Fixed infinite loop in ``stream`` when amt=None.
 * Added length_remaining to determine remaining data to be read.
 * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
 * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
 * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
 * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
 * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
 * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
 * Bugfix to pyopenssl vendoring

* Wolfgang Richter <wolfgang.richter@gmail.com>
 * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>

* Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
* Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
* Update appveyor tox setup to use the 64bit python.

* Akamai
(through Jess Shapiro) <jshapiro@akamai.com>
* Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
* Minor fixes in the test suite

* Will Bond <will@wbond.net>
* Add Python 2.6 support to ``contrib.securetransport``

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
* using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
* Improve contribution guide
* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

* Bruce Merry <https://www.brucemerry.org.za>
* Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
* Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
* Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
* Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
* Remove Authorization header
regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
* Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
* Remove a spurious TypeError from the exception chain inside
HTTPConnectionPool._make_request(), also for BaseExceptions.

* Jorge Lopez Silva <https://github.com/jalopezsilva>
* Added support for forwarding requests through HTTPS proxies.

* Benno Rice <benno@jeamland.net>
 * Allow cadata parameter to be passed to underlying ``SSLContext.load_verify_locations()``.

* Keiichi Kobayashi <abok.1k@gmail.com>
 * Rename VerifiedHTTPSConnection to HTTPSConnection

* Himanshu Garg <garg_himanshu@outlook.com>
 * DOC & LICENSE Update

* Hod Bin Noon <bin.noon.hod@gmail.com>
 * Test improvements

* Chris Olufson <tycarac@gmail.com>
 * Fix for connection not being released on HTTP redirect and response not preloaded

* [Bastiaan Bakker] <https://github.com/bastiaanb>
 * Support for logging session keys
 via environment variable ``SSLKEYLOGFILE`` (Python 3.8+)

* [Ezzeri Esa] <https://github.com/savarin>
 * Ports and extends on types from typeshed

* [Your name or handle] <[email or website]>
 * [Brief summary of your changes]

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1.3313 otel-exporters-zipkin 1.28.0

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1.3314 ory-fosite 0.47.0

1.3314.1 Available under license :

name: Licenses

on:
pull_request:
push:
branches:

```
    - main
    - master

jobs:
 check:
   runs-on: ubuntu-latest
   steps:
     - uses: actions/checkout@v2
     - uses: actions/setup-go@v2
       with:
         go-version: "1.21"
     - uses: actions/setup-node@v2
       with:
         node-version: "18"
     - run: make licenses
```

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1.3315 ory-x 0.0.649

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```
name: Licenses

on:
 pull_request:
 push:
   branches:
     - main
     - master

jobs:
 check:
```

```
runs-on: ubuntu-latest
steps:
  - uses: actions/checkout@v2
  - uses: actions/setup-go@v2
    with:
      go-version: "1.22"
  - uses: actions/setup-node@v2
    with:
      node-version: "18"
  - run: make licenses
```

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```
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package configx

import (
 "os"
 "os/user"
 "strconv"
)

type UnixPermission struct {
 Owner string
 Group string
 Mode  os.FileMode
}

func (p *UnixPermission) SetPermission(file string) error {
 var e error
 e = os.Chmod(file, p.Mode)
 if e != nil {
```

```
 return e
}

gid := -1
uid := -1

if p.Owner != "" {
 var userObj *user.User
 userObj, e = user.Lookup(p.Owner)
 if e != nil {
  return e
 }
 uid, e = strconv.Atoi(userObj.Uid)
 if e != nil {
  return e
 }
}
if p.Group != "" {
 var group *user.Group
 group, e := user.LookupGroup(p.Group)
 if e != nil {
  return e
 }
 gid, e = strconv.Atoi(group.Gid)
 if e != nil {
  return e
 }
}

e = os.Chown(file, uid, gid)
if e != nil {
 return e
}
return nil
}
```

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1.3316 klauspost-compress 1.17.9

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1.3317 argparse 2.0.1

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1.3318 packaging 24.2

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1.3319 tomlkit 0.13.2

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1.3320 pyasn1 0.6.1

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ASN.1 library for Python

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This is a free and open source implementation of ASN.1 types and codecs
as a Python package. It has been first written to support particular
protocol (SNMP) but then generalized to be suitable for a wide range
of protocols based on
[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

NOTE:
The package is now maintained by *Christian Heimes* and
Simon Pichugin in project https://github.com/pyasn1/pyasn1.

Features
---

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Can operate on streams of serialized data
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 3.8+
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1

ASN.1 solves the data serialisation problem. This solution was
designed long ago by the wise Ancients. Back then, they did not
have the luxury of wasting bits. That is why ASN.1 is designed
to serialise data structures of unbounded complexity into
something compact and efficient when it comes to processing
the data.

That probably explains why many network protocols and file formats

still rely on the 30+ years old technology.
Including a number of
high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.
[Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html)
by Olivier Dubuisson is one of those high quality books freely
available on the Internet.

The pyasn1 package is designed to help Python programmers tackling
network protocols and file formats at the comfort of their Python
prompt. The tool struggles to capture all aspects of a rather
complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

With pyasn1 you can build Python objects from ASN.1 data structures.
For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
 id       INTEGER,
 room  [0] INTEGER OPTIONAL,
 house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
  componentType = NamedTypes(
      NamedType('id', Integer()),
      OptionalNamedType(
          'room', Integer().subtype(
              implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
          )
      ),
      DefaultedNamedType(
          'house', Integer(0).subtype(
              implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
          )
      )
  )
```

It is in the spirit of ASN.1 to take abstract data description

and turn it into a programming language specific form.
Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000:
 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321,
 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](https://pyasn1.readthedocs.io/en/latest/pyasn1/contents.html), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](https://github.com/pyasn1/pyasn1-modules).

How to get pyasn1

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](https://pyasn1.readthedocs.io/en/latest/license.html). Source code is freely available as a GitHub [repo](https://github.com/pyasn1/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If something does not work as expected,
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Name: pyasn1
Version: 0.6.1
Summary: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
Home-page: https://github.com/pyasn1/pyasn1
Author: Ilya Etingof
Author-email: etingof@gmail.com
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ASN.1 library for Python

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* Can operate on streams of serialized data
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 3.8+
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1

ASN.1 solves the data serialisation problem. This solution was
designed long ago by the wise Ancients. Back then, they did not
have the luxury of wasting bits. That is why ASN.1 is designed

to serialise data structures of unbounded complexity into
something compact and efficient when it comes to processing
the data.

That probably explains why many network protocols and file formats
still rely on the 30+ years old technology. Including a number of
high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.
[Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html)
by
 Olivier Dubuisson is one of those high quality books freely
available on the Internet.

The pyasn1 package is designed to help Python programmers tackling
network protocols and file formats at the comfort of their Python
prompt. The tool struggles to capture all aspects of a rather
complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

With pyasn1 you can build Python objects from ASN.1 data structures.
For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
 id       INTEGER,
 room  [0] INTEGER OPTIONAL,
 house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
  componentType = NamedTypes(
      NamedType('id', Integer()),
      OptionalNamedType(
         'room', Integer().subtype(
            implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
         )
      ),
      DefaultedNamedType(
         'house', Integer(0).subtype(
             implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
         )
```

```
    )
  )
```

It is in the spirit of ASN.1 to take abstract data description
and turn it into a programming language specific form.
Once you have your ASN.1 data structure expressed in Python, you
can use it along the lines of similar Python type (e.g. ASN.1
`SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
```

Part of the power of ASN.1 comes from its serialisation features. You
can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from
network or read from a file, into a Python object which you can
introspect, modify, encode and send
 back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
```

```
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room':
 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](https://pyasn1.readthedocs.io/en/latest/pyasn1/contents.html), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](https://github.com/pyasn1/pyasn1-modules).

How to get pyasn1

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](https://pyasn1.readthedocs.io/en/latest/license.html). Source code is freely

available as a GitHub [repo](https://github.com/pyasn1/pyasn1).

You could `pip install pyasn1`
 or download it from [PyPI](https://pypi.org/project/pyasn1).

If something does not work as expected,
[open an issue](https://github.com/epyasn1/pyasn1/issues) at GitHub or
post your question [on Stack Overflow](https://stackoverflow.com/questions/ask)
or try browsing pyasn1
[mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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[metadata]
name = pyasn1
version = attr: pyasn1.__version__
description = Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
long_description = file: README.md
long_description_content_type = text/markdown
license = BSD-2-Clause
license_files = LICENSE.rst
url = https://github.com/pyasn1/pyasn1
author = Ilya Etingof
author_email = etingof@gmail.com
maintainer = pyasn1 maintenance organization
maintainer_email = Christian Heimes <christian@python.org>
project_urls =
 Documentation=https://pyasn1.readthedocs.io
 Source=https://github.com/pyasn1/pyasn1
 Issues=https://github.com/pyasn1/pyasn1/issues
 Changelog=https://pyasn1.readthedocs.io/en/latest/changelog.html
platforms = any
classifiers =
 Development Status :: 5 - Production/Stable
 Environment :: Console
 Intended Audience :: Developers
 Intended Audience :: Education
 Intended Audience :: Information Technology
 Intended Audience :: System
 Administrators
 Intended Audience :: Telecommunications Industry

```
 License :: OSI Approved :: BSD License
 Natural Language :: English
 Operating System :: OS Independent
 Programming Language :: Python :: 3
 Programming Language :: Python :: 3.8
 Programming Language :: Python :: 3.9
 Programming Language :: Python :: 3.10
 Programming Language :: Python :: 3.11
 Programming Language :: Python :: 3.12
 Programming Language :: Python :: 3.13
 Programming Language :: Python :: Implementation :: CPython
 Programming Language :: Python :: Implementation :: PyPy
 Topic :: Communications
 Topic :: Software Development :: Libraries :: Python Modules

[options]
python_requires = >=3.8
zip_safe = True
setup_requires = setuptools
packages =
 pyasn1
 pyasn1.type
 pyasn1.compat
 pyasn1.codec
 pyasn1.codec.ber
 pyasn1.codec.cer
 pyasn1.codec.der
 pyasn1.codec.native

[egg_info]
tag_build =
tag_date = 0
```

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```
.. _license:

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=======

.. include:: ../../LICENSE.rst
```

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1.3321 ruamel-yaml-clib 0.2.12

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1.3322 pycparser 2.22

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1.3323 werkzeug 3.1.3

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1.3325 color 1.18.0

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1.3331 libcurl 7.88.1-10+deb12u8

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1.3333 gophercloud 1.14.1

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Step 5: Writing the Code
==========

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the [CONTRIBUTING](/.github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](/.github/CONTRIBUTING.md#getting-started) section will help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a _very_ rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

###
 A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull

Request for _each_ field.

Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* https://github.com/gophercloud/gophercloud/pull/584
* https://github.com/gophercloud/gophercloud/pull/586
* https://github.com/gophercloud/gophercloud/pull/587
* https://github.com/gophercloud/gophercloud/pull/594

You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple

commits is up to you. Use your preferred style.

Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're [testing](step-04-acceptance-testing.md) with.

Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details
 of your Pull Request, where appropriate.

Dealing with Related Pull Requests

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"
```

```
$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull
 Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of
 merge conflicts.

Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request.
Pull Requests will have to be merged in a specific order since there is a
defined relationship.

Use the following `git` workflow to implement this method:

```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase
 all child
 Pull Requests based off of the parent.

The choice of method is up to you.

Once you have your code written, submit a Pull Request to Gophercloud and
proceed to [Step 6](step-06-code-review.md).
Contributor Tutorial
==========

This tutorial is to help new contributors become familiar with the processes
used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful
that everyone is new to this in the beginning. Please reach out for help or ask
for clarification if needed. No question is ever "dumb" or not worth our time
answering.

To begin, go to [Step 1](step-01-introduction.md).
/*
Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE
*/
package RESOURCE
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Step 6: Code Review
==========

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:

a. Unit Tests

b. Code Formatting checks

c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

Coveralls

If Coveralls reports a decrease in test coverage,
check and make sure you have
provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a

core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used.

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).
package testing

```
import (
 "fmt"
 "net/http"
 "testing"
```

```
 "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
 th "github.com/gophercloud/gophercloud/testhelper"
 "github.com/gophercloud/gophercloud/testhelper/client"
)

// ListResult provides a single page of RESOURCE results.
const ListResult = `
{
}
`

// GetResult provides a Get result.
const GetResult = `
{
}
`

// CreateRequest provides the input to a Create request.
const CreateRequest = `
{
}
`

// UpdateRequest provides the input to as Update request.
const UpdateRequest = `
{
}
`

// UpdateResult provides an update result.
const UpdateResult = `
{
}
`

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{}

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{}

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{}

// ExpectedResourcesSlice is the
 slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}
```

```
// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
 th.Mux.HandleFunc("/resources", func(w http.ResponseWriter, r *http.Request) {
  th.TestMethod(t, r, "GET")
  th.TestHeader(t, r, "Accept", "application/json")
  th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

  w.Header().Set("Content-Type", "application/json")
  w.WriteHeader(http.StatusOK)
  fmt.Fprintf(w, ListResult)
 })
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
 th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
  th.TestMethod(t, r, "GET")
  th.TestHeader(t,
 r, "Accept", "application/json")
  th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

  w.Header().Set("Content-Type", "application/json")
  w.WriteHeader(http.StatusOK)
  fmt.Fprintf(w, GetResult)
 })
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
 th.Mux.HandleFunc("/resources", func(w http.ResponseWriter, r *http.Request) {
  th.TestMethod(t, r, "POST")
  th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
  th.TestJSONRequest(t, r, CreateRequest)

  w.WriteHeader(http.StatusCreated)
  fmt.Fprintf(w, GetResult)
 })
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
 th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
  th.TestMethod(t, r, "DELETE")
```

```
  th.TestHeader(t, r,
 "X-Auth-Token", client.TokenID)

  w.WriteHeader(http.StatusNoContent)
 })
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
 th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
  th.TestMethod(t, r, "PATCH")
  th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
  th.TestJSONRequest(t, r, UpdateRequest)

  w.WriteHeader(http.StatusOK)
  fmt.Fprintf(w, UpdateResult)
 })
}
package RESOURCE

import (
 "github.com/gophercloud/gophercloud"
 "github.com/gophercloud/gophercloud/pagination"
)

// RESOURCE represents...
type Resource struct {
}

type commonResult struct {
 gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method
// to interpret it as a RESOURCE.
type GetResult struct {
 commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.
type CreateResult struct {
 commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.
```

```
type DeleteResult struct {
 gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
 commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
 pagination.LinkedPageBase
}

// IsEmpty determines whether
 or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
 if r.StatusCode == 204 {
  return true, nil
 }

 resources, err := ExtractResources(r)
 return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
 var s struct {
  Links struct {
   Next     string `json:"next"`
   Previous string `json:"previous"`
  } `json:"links"`
 }
 err := r.ExtractInto(&s)
 if err != nil {
  return "", err
 }
 return s.Links.Next, err
}

// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
 var s struct {
  Resources []Resource `json:"resources"`
 }
 err := (r.(ResourcePage)).ExtractInto(&s)
```

```
 return s.Resources, err
}

// Extract interprets any commonResult as a Resource.
func (r commonResult) Extract() (*Resource, error) {
 var s struct {
  Resource *Resource
 `json:"resource"`
 }
 err := r.ExtractInto(&s)
 return s.Resource, err
}
package RESOURCE

import (
 "github.com/gophercloud/gophercloud"
 "github.com/gophercloud/gophercloud/pagination"
)

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
 ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
 q, err := gophercloud.BuildQueryString(opts)
 return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
 url := listURL(client)
 if opts != nil {
  query, err := opts.ToResourceListQuery()
  if err != nil {
   return pagination.Pager{Err: err}
  }
  url += query
 }
 return pagination.NewPager(client, url, func(r pagination.PageResult) pagination.Page {
  return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
 })
```

```
}

//
 Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
 resp, err := client.Get(getURL(client, id), &r.Body, nil)
 _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
 return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
 ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
 return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
 b, err := opts.ToResourceCreateMap()
 if err != nil {
  r.Err = err
  return
 }
 resp, err := client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
  OkCodes:
 []int{201},
 })
 _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
 return
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
 resp, err := client.Delete(deleteURL(client, id), nil)
 _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
 return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
```

```
// the Update request.
type UpdateOptsBuilder interface {
 ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
 return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
 b, err := opts.ToResourceUpdateMap()
 if
 err != nil {
  r.Err = err
  return
 }
 resp, err := client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
  OkCodes: []int{200},
 })
 _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
 return
}
package testing

import (
 "testing"

 "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
 "github.com/gophercloud/gophercloud/pagination"
 th "github.com/gophercloud/gophercloud/testhelper"
 "github.com/gophercloud/gophercloud/testhelper/client"
)

func TestListResources(t *testing.T) {
 th.SetupHTTP()
 defer th.TeardownHTTP()
 HandleListResourcesSuccessfully(t)

 count := 0
 err := resources.List(client.ServiceClient(), nil).EachPage(func(page pagination.Page) (bool, error) {
  count++
```

```
  actual, err := resources.ExtractResources(page)
  th.AssertNoErr(t, err)

  th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)

  return true, nil
 })
 th.AssertNoErr(t, err)
 th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
 th.SetupHTTP()
 defer th.TeardownHTTP()
 HandleListResourcesSuccessfully(t)

 allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
 th.AssertNoErr(t, err)
 actual, err := resources.ExtractResources(allPages)
 th.AssertNoErr(t,
 err)
 th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
 th.SetupHTTP()
 defer th.TeardownHTTP()
 HandleGetResourceSuccessfully(t)

 actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
 th.AssertNoErr(t, err)
 th.AssertDeepEquals(t, SecondResource, *actual)
}

func TestCreateResource(t *testing.T) {
 th.SetupHTTP()
 defer th.TeardownHTTP()
 HandleCreateResourceSuccessfully(t)

 createOpts := resources.CreateOpts{
  Name: "resource two",
 }

 actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
 th.AssertNoErr(t, err)
 th.AssertDeepEquals(t, SecondResource, *actual)
}
```

```
func TestDeleteResource(t *testing.T) {
 th.SetupHTTP()
 defer th.TeardownHTTP()
 HandleDeleteResourceSuccessfully(t)

 res := resources.Delete(client.ServiceClient(), "9fe1d3")
 th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
 th.SetupHTTP()
 defer th.TeardownHTTP()
 HandleUpdateResourceSuccessfully(t)

 updateOpts
 := resources.UpdateOpts{
  Description: "Staging Resource",
 }

 actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
 th.AssertNoErr(t, err)
 th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}
```

Step 4: Acceptance Testing
==========

If we haven't started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

Once you've confirmed you are able to test your code, proceed to

[Step 5](step-05-pull-requests.md) to (finally!)
 start working on a Pull
Request.
Step 7: Congratulations!
==========

At this point your code is merged and you've either fixed a bug or added a new
feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your
patience as well as the time you have taken for working on this. You've made
Gophercloud a better project with your work.
Step 3: Code Hunting
==========

If you plan to submit a feature or bug fix to Gophercloud, you must be
able to prove your code correctly works with the OpenStack service in
question.

Let's use the following issue as an example:
https://github.com/gophercloud/gophercloud/issues/621.
In this issue, there's a request being made to add support for
`availability_zone_hints` to the `networking/v2/networks` package.
Meaning, we want to change:

```go
type Network struct {
 ID          string   `json:"id"`
 Name        string   `json:"name"`
 AdminStateUp bool     `json:"admin_state_up"`
 Status      string   `json:"status"`
 Subnets     []string `json:"subnets"`
 TenantID    string   `json:"tenant_id"`
 Shared      bool     `json:"shared"`
}
```

to look like

```go
type Network struct {
 ID                  string   `json:"id"`
 Name                string   `json:"name"`
 AdminStateUp        bool     `json:"admin_state_up"`
 Status
             string   `json:"status"`
 Subnets             []string `json:"subnets"`
 TenantID            string   `json:"tenant_id"`
```

```
 Shared              bool     `json:"shared"`

 AavailabilityZoneHints []string `json:"availability_zone_hints"`
}
```

We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/). However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying
> that the API docs aren't
 useful or that the contributors who work on the API
> docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update
> documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[]string`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than
 writing the actual patch
for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539

* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Code Hunting Tips

OpenStack projects differ from one to another. Code is organized in different
ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located
 in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on.
 Review all results to gain a good understanding of everywhere the field is
 used.

* When adding a field, look for an
 object model or a schema of some sort.

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance
Testing.
Step 1: Read Our Guides
==========

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed
 document which describes the different ways you can contribute to Gophercloud
 and how to get started. This tutorial you're reading is very similar to that
 guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used
 in the Gophercloud project.

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).
Step 2: Create an Issue
==========

Every patch / Pull Request requires a corresponding issue. If you're fixing
a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* https://github.com/gophercloud/gophercloud/issues/108
* https://github.com/gophercloud/gophercloud/issues/212
* https://github.com/gophercloud/gophercloud/issues/424
* https://github.com/gophercloud/gophercloud/issues/588
* https://github.com/gophercloud/gophercloud/issues/629
* https://github.com/gophercloud/gophercloud/issues/647

Feature Request

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is to start a discussion about whether or not the feature should be included in Gophercloud. We don't want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues

are pretty easy to report
and resolve.

You should also provide a link to the actual service's Python code which
defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field
is part of an API extension rather than the base API itself. An example of this
can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749)
issue.

Here, a user reported fields missing in the `Get` function of
`networking/v2/networks`. The fields reported missing weren't missing at all,
they're just part of various Networking extensions located in
`networking/v2/extensions`.

Adding a Missing API Call

If you've found a missing API action, create an issue with details of
the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
*
https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project
and not an extension created by a third-party or vendor. Gophercloud only
supports the OpenStack projects proper.

Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull
Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required
 for _issues_, but it's usually a good idea to provide
them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* https://github.com/gophercloud/gophercloud/issues/723

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.
package RESOURCE

```
import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
 return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
 return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
 return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
 return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
 return client.ServiceURL("resource", id)
}
```

1.3334 c-ares 1.34.3-r0

1.3334.1 Available under license :

AUTOCONF CONFIGURE SCRIPT EXCEPTION

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copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in
the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source

may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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-- vile: txtmode file-encoding=utf-8

1.3339 flask 3.1.0

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1.3340 protobuf 1.35.2

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1.3341 github.com/containerd/errdefs 0.3.0

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1.3342 containerd 1.7.23

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1.3343 kube-openapi 0.0.0-20241105132330-32ad38e42d3f

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
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package spec
```

```
import "testing"

func TestIntegrationLicense(t *testing.T) {
 license := License{Name: "the name", URL: "the url"}
 const licenseJSON = `{"name":"the name","url":"the url"}`
 const licenseYAML = "name: the name\nurl: the url\n"

 assertSerializeJSON(t, license, licenseJSON)
 assertParsesJSON(t, licenseJSON, license)
}
```

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set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1

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file_io/unix/mktemp.c, strings/apr_strings.c:

```
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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From dso/aix/dso.c:

* Based on libdl (dlfcn.c/dlfcn.h) which is
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```

From strings/apr_strnatcmp.c,
include/apr_strings.h:

```
strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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```

From
strings/apr_snprintf.c:

```
*
* cvt - IEEE floating point formatting routines.
*       Derived from UNIX V7, Copyright(C) Caldera International Inc.
*

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Version 2.1, February 1999

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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1.3355 containers-common 0.60.4

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package spec

import (
 "encoding/json"

 "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 LicenseProps
 VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}

// UnmarshalJSON
 hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
 if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
  return err
 }
 return json.Unmarshal(data, &l.VendorExtensible)
```

```
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
 b1, err := json.Marshal(l.LicenseProps)
 if err != nil {
  return nil, err
 }
 b2, err := json.Marshal(l.VendorExtensible)
 if err != nil {
  return nil, err
 }
 return swag.ConcatJSON(b1, b2), nil
}
```

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Contributing

When contributing to this repository, please first discuss the change you wish
to make via an [issue](https://github.com/sigstore/rekor/issues).

Pull Request Process

1. Create an [issue](https://github.com/sigstore/rekor/issues)
  outlining the fix or feature.
2. Fork the rekor repository to your own github account and clone it locally.
3. Hack on your changes.
4. Update the README.md with details of changes to any interface, this includes new environment
  variables, exposed ports, useful file locations, CLI parameters and
  new or changed configuration values.
5. Correctly format your commit message see [Commit Messages](#Commit Message Guidelines)
  below.
6. Ensure that CI passes, if it fails, fix the failures.
7. Every pull request requires a review from the [core rekor
team](https://github.com/orgs/github.com/sigstore/teams/core-team)
  before merging.
8. If your pull request consists of more than one commit, please squash your
  commits as described in
 [Squash Commits](#Squash Commits)

Commit Message Guidelines

We follow the commit formatting recommendations found on [Chris Beams' How to Write a Git Commit Message article](((https://chris.beams.io/posts/git-commit/).

Well formed commit messages not only help reviewers understand the nature of
the Pull Request, but also assists the release process where commit messages
are used to generate release notes.

A good example of a commit message would be as follows:

```
Summarize changes in around 50 characters or less

More detailed explanatory text, if necessary. Wrap it to about 72
characters or so. In some contexts, the first line is treated as the
subject of the commit and the rest of the text as the body. The
blank line separating the summary from the body is critical (unless
you omit the body entirely); various tools like `log`, `shortlog`
and `rebase` can get confused if you run the two together.

Explain the problem that this commit is solving. Focus on why you
are making this
 change as opposed to how (the code explains that).
Are there side effects or other unintuitive consequences of this
change? Here's the place to explain them.

Further paragraphs come after blank lines.
```

- Bullet points are okay, too

- Typically a hyphen or asterisk is used for the bullet, preceded
  by a single space, with blank lines in between, but conventions
  vary here

If you use an issue tracker, put references to them at the bottom,
like this:

Resolves: #123
See also: #456, #789
```

Note the `Resolves #123` tag, this references the issue raised and allows us to
ensure issues are associated and closed when a pull request is merged.

Please refer to [the github help page on message types](https://help.github.com/articles/closing-issues-using-keywords/)
for a complete list of issue references.

## Squash Commits

Should your pull request consist of more than one commit (perhaps due to
a change being requested during the review cycle), please perform a git squash
once a reviewer
 has approved your pull request.

A squash can be performed as follows. Let's say you have the following commits:

```
initial commit
second commit
final commit
```

Run the command below with the number set to the total commits you wish to
squash (in our case 3 commits):

```
git rebase -i HEAD~3
```

You default text editor will then open up and you will see the following::

```
pick eb36612 initial commit
pick 9ac8968 second commit
pick a760569 final commit

# Rebase eb1429f..a760569 onto eb1429f (3 commands)
```

We want to rebase on top of our first commit, so we change the other two commits
```

to `squash`:

```
pick eb36612 initial commit
squash 9ac8968 second commit
squash a760569 final commit
```

After this, should you wish to update your commit message to better summarise
all of your pull request, run:

```
git commit --amend
```

You will then need to force push (assuming your initial commit(s) were posted
to github):

```
git push origin your-branch --force
```

Alternatively,
 a core member can squash your commits within Github.
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1.3357 gax-go 2.14.0

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1.3358 x-oauth2 0.24.0

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1.3363 python3-prometheus-client 0.9.0-1

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1.3366 testify 1.10.0

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1.3368 npm-install-checks 7.1.1

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1.3369 make-fetch-happen 14.0.3

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1.3370 tuf-js 3.0.1

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1.3371 npm-registry-fetch 18.0.2

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1.3372 promise-call-limit 3.0.2

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1.3373 npmcli-promise-spawn 8.0.2

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1.3374 ci-info 4.1.0

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1.3375 @sigstore/core 2.0.0

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1.3377 grpc-gateway 2.23.0

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1.3378 ansible-compat 24.10.0

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1.3379 python-prometheus-client 0.9.0-1

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1.3381 jdk-zulu 8.82.0.21-1

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1.3382 libteam-utils 1.31-1build2

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compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that
uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the
object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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1.3389 systemd-coredump 249.11-0ubuntu3.12

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1.3392 pwauth 2.3.11-5

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* /opt/cola/permits/2282236158_1732737348.222737/0/pwauth-2-3-11-orig-2-tar-gz/pwauth-2.3.11/fail_check.c
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* /opt/cola/permits/2282236158_1732737348.222737/0/pwauth-2-3-11-orig-2-tar-gz/pwauth-2.3.11/lastlog.c
*
/opt/cola/permits/2282236158_1732737348.222737/0/pwauth-2-3-11-orig-2-tar-gz/pwauth-2.3.11/nologin.c
* /opt/cola/permits/2282236158_1732737348.222737/0/pwauth-2-3-11-orig-2-tar-gz/pwauth-2.3.11/pwauth.h
* /opt/cola/permits/2282236158_1732737348.222737/0/pwauth-2-3-11-orig-2-tar-gz/pwauth-2.3.11/snooze.c

1.3393 httpparser 0.9.0

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1.3394 httpparser 0.9.0-1build4

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util.py - IOrderedDict

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1.3395 postgre-sql 13.16

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52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
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1.3410 python3-nose 1.3.7-8

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1.3415 libsoup 2.74.2-3ubuntu0.1

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1.3418 minio-go 7.0.80

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package minio

import (
 "bytes"
 "context"
 "encoding/xml"
 "fmt"
 "net/http"
 "net/url"

 "github.com/minio/minio-go/v7/pkg/s3utils"
)

// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html
type objectLegalHold struct {
 XMLNS   string          `xml:"xmlns,attr,omitempty"`
 XMLName
 xml.Name        `xml:"LegalHold"`
 Status  LegalHoldStatus `xml:"Status,omitempty"`
}

// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
type PutObjectLegalHoldOptions struct {
 VersionID string
 Status    *LegalHoldStatus
}

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
```

```
type GetObjectLegalHoldOptions struct {
 VersionID string
}

// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string

const (
 // LegalHoldEnabled indicates legal hold is enabled
 LegalHoldEnabled LegalHoldStatus = "ON"

 // LegalHoldDisabled indicates legal hold is disabled
 LegalHoldDisabled LegalHoldStatus = "OFF"
)

func (r LegalHoldStatus) String() string {
 return string(r)
}

// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {
 return r == LegalHoldEnabled || r == LegalHoldDisabled
}

func newObjectLegalHold(status *LegalHoldStatus)
 (*objectLegalHold, error) {
 if status == nil {
  return nil, fmt.Errorf("Status not set")
 }
 if !status.IsValid() {
  return nil, fmt.Errorf("invalid legal hold status `%v`", status)
 }
 legalHold := &objectLegalHold{
  Status: *status,
 }
 return legalHold, nil
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c *Client) PutObjectLegalHold(ctx context.Context, bucketName, objectName string, opts
PutObjectLegalHoldOptions) error {
 // Input validation.
 if err := s3utils.CheckValidBucketName(bucketName); err != nil {
  return err
 }

 if err := s3utils.CheckValidObjectName(objectName); err != nil {
  return err
```

```
 }

 // Get resources properly escaped and lined up before
 // using them in http request.
 urlValues := make(url.Values)
 urlValues.Set("legal-hold", "")

 if opts.VersionID != "" {
  urlValues.Set("versionId", opts.VersionID)
 }

 lh, err := newObjectLegalHold(opts.Status)
 if err != nil {
  return err
 }

 lhData, err := xml.Marshal(lh)
 if
 err != nil {
  return err
 }

 reqMetadata := requestMetadata{
  bucketName:       bucketName,
  objectName:       objectName,
  queryValues:      urlValues,
  contentBody:      bytes.NewReader(lhData),
  contentLength:    int64(len(lhData)),
  contentMD5Base64: sumMD5Base64(lhData),
  contentSHA256Hex: sum256Hex(lhData),
 }

 // Execute PUT Object Legal Hold.
 resp, err := c.executeMethod(ctx, http.MethodPut, reqMetadata)
 defer closeResponse(resp)
 if err != nil {
  return err
 }
 if resp != nil {
  if resp.StatusCode != http.StatusOK && resp.StatusCode != http.StatusNoContent {
   return httpRespToErrorResponse(resp, bucketName, objectName)
  }
 }
 return nil
}

// GetObjectLegalHold gets legal-hold status of given object.
func (c *Client) GetObjectLegalHold(ctx context.Context, bucketName, objectName string, opts
```

```
GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {
 // Input validation.
 if err := s3utils.CheckValidBucketName(bucketName); err != nil {
  return
 nil, err
 }

 if err := s3utils.CheckValidObjectName(objectName); err != nil {
  return nil, err
 }
 urlValues := make(url.Values)
 urlValues.Set("legal-hold", "")

 if opts.VersionID != "" {
  urlValues.Set("versionId", opts.VersionID)
 }

 // Execute GET on bucket to list objects.
 resp, err := c.executeMethod(ctx, http.MethodGet, requestMetadata{
  bucketName:       bucketName,
  objectName:       objectName,
  queryValues:      urlValues,
  contentSHA256Hex: emptySHA256Hex,
 })
 defer closeResponse(resp)
 if err != nil {
  return nil, err
 }
 if resp != nil {
  if resp.StatusCode != http.StatusOK {
   return nil, httpRespToErrorResponse(resp, bucketName, objectName)
  }
 }
 lh := &objectLegalHold{}
 if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
  return nil, err
 }

 return &lh.Status, nil
}
```

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module _ // Auto generated by https://github.com/bwplotka/bingo. DO NOT EDIT

go 1.20

require github.com/efficientgo/tools/copyright v0.0.0-20220225185207-fe763185946b
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1.3420 six 1.17.0

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If you think you belong on this list, please let me know! --Benjamin

1.3421 google-golang-org-genproto-googleapis-api 0.0.0-20240827150818-7e3bb234dfed

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1.3422 github.com/googleapis/enterprise-certificate-proxy 0.3.4

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1.3423 go-etcd-io-bbolt 1.3.11

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1.3424 github.com/masterminds/sprig/v3 3.3.0

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1.3426 golang-org-x-exp 0.0.0-20240909161429-701f63a606c0

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1.3427 path-to-regexp 0.1.12

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1.3428 x-sys 0.28.0

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1.3429 masterminds-semver 3.3.0

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1.3430 debug 4.4.0

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1.3432 socks-proxy-agent 8.0.5

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1.3433 agent-base 7.1.3

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1.3434 x-net 0.32.0

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1.3435 tonistiigi-go-actions-cache 0.0.0-20241108014124-394979b8119e

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1.3436 tonistiigi-dchapes-mode 0.0.0-20241001053921-ca0759fec205

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1.3437 resenje.org-singleflight 0.4.3

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1.3438 moby-swarmkit 2.0.0-20241017191044-e8ecf83ee08e

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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1.3447 https-proxy-agent 7.0.6

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1.3448 mesa 23.2.1-1ubuntu3.1~22.04.3

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# SOFTWARE.

libfreedreno_layout = static_library(
 'freedreno_layout',
 [
   'fd5_layout.c',
   'fd6_format_table.c',
   'fd6_layout.c',
   'fd6_view.c',
   'freedreno_layout.c',
   freedreno_xml_header_files,
 ],
 include_directories : [inc_freedreno, inc_include, inc_src, inc_mapi, inc_mesa, inc_gallium, inc_gallium_aux],
 c_args : [no_override_init_args],
 gnu_symbol_visibility : 'hidden',
 dependencies : [idep_nir_headers, idep_mesautil],
 build_by_default : false,
)

foreach major : ['5', '6']
 test(
   'fd' + major + '_layout',
   executable(
     'fd' + major + '_layout',
     [
       'fd_layout_test.c',
       'fd' + major + '_layout_test.c',
       freedreno_xml_header_files,
     ],
     link_with: libfreedreno_layout,
     dependencies : idep_mesautil,
     include_directories: [
       inc_include,
       inc_src,
       inc_mapi,
       inc_mesa,
       inc_gallium,

   inc_gallium_aux,
       inc_freedreno],
   ),
   suite : ['freedreno'],
 )
endforeach
```

1.3449 x-crypto 0.31.0

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1.3450 nanoid 3.3.8

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1.3451 controller-runtime 0.19.3

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1.3452 leodido-go-syslog 4.2.0

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1.3453 dmidecode 3.3-3ubuntu0.2

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1.3454 x-crypto 0.28.0

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1.3455 kr-pretty 0.3.1

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1.3459 curl 7.81.0-1ubuntu1.20

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1.3460 prometheus-common 0.61.0

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1.3461 protobuf 1.36.0

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1.3466 gstreamer 1.20.3-0ubuntu1.1

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# ncurses 6.5 - patch 20241006 - Thomas E. Dickey
#
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#
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#   https://invisible-island.net/archives/ncurses/
#   https://invisible-mirror.net/archives/ncurses/
#   https://ftp.gnu.org/gnu/ncurses/
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# Patches for ncurses 6.5 can be found at
#   https://invisible-island.net/archives/ncurses/6.5
#   https://invisible-mirror.net/archives/ncurses/6.5
#
# -------------------------------------------------------------------------------
# https://invisible-island.net/archives/ncurses/6.5/ncurses-6.5-20241006.patch.gz
# patch by Thomas E. Dickey <dickey@invisible-island.net>
# created  Sun Oct  6 23:44:01 UTC 2024
# -------------------------------------------------------------------------------
# NEWS                        |    6 +++
# VERSION                     |    2 -
# c++/cursesf.cc              |    6 +--
# c++/cursesf.h
                              |    6 +--
# c++/cursesm.cc              |    6 +--
# c++/cursesm.h               |    6 +--
# c++/cursesp.cc              |    6 +--
# c++/cursespad.cc            |    6 +--
```

```
# c++/cursslk.cc                  |   12 +++----
# c++/cursslk.h                   |    6 +--
# dist.mk                         |    4 +-
# misc/terminfo.src               |   23 ++++++++++--
# ncurses/base/lib_screen.c       |    4 +-
# ncurses/base/new_pair.c         |    4 +-
# ncurses/curses.priv.h           |    4 +-
# ncurses/new_pair.h              |    4 +-
# ncurses/tinfo/trim_sgr0.c       |    7 ++--
# ncurses/tty/lib_twait.c         |    6 +--
# package/debian-mingw/changelog  |    4 +-
# package/debian-mingw64/changelog |    4 +-
# package/debian/changelog        |    4 +-
# package/mingw-ncurses.nsi       |    4 +-
# package/mingw-ncurses.spec      |    2 -
# package/ncurses.spec            |    2 -
# package/ncursest.spec           |
    2 -
# test/blue.c                     |   10 +++---
# test/bs.c                       |    8 ++--
# test/cardfile.c                 |   12 +++----
# test/chgat.c                    |    6 +--
# test/clip_printw.c              |    8 ++--
# test/color_name.h               |    6 +--
# test/demo_defkey.c              |    4 +-
# test/demo_forms.c               |   22 ++++++-------
# test/demo_menus.c               |   32 ++++++++++---------
# test/demo_new_pair.c            |    4 +-
# test/demo_panels.c              |   16 ++++-----
# test/demo_termcap.c             |   18 +++++-----
# test/demo_terminfo.c            |   18 +++++-----
# test/dots.c                     |    6 +--
# test/dots_mvcur.c               |    6 +--
# test/dots_termcap.c             |    8 ++--
# test/dup_field.c                |   14 ++++----
# test/filter.c                   |    6 +--
# test/form_driver_w.c            |    6 +--
# test/gdc.c                      |   10 +++---
# test/inch_wide.c
                |    6 +--
# test/inchs.c                    |    6 +--
# test/ins_wide.c                 |    6 +--
# test/insdelln.c                 |    8 ++--
# test/inserts.c                  |    6 +--
# test/knight.c                   |    7 ++--
# test/list_keys.c                |    8 ++--
# test/move_field.c               |   18 +++++-----
# test/movewindow.c               |   16 ++++-----
```

```
# test/ncurses.c                 |  61 +++++++++++++++++++------------------
# test/padview.c                 |  12 +++----
# test/parse_rgb.h               |   6 +--
# test/picsmap.c                 |  14 ++++----
# test/popup_msg.c               |   8 ++--
# test/popup_msg.h               |   6 +--
# test/railroad.c                |   6 +--
# test/rain.c                    |  20 ++++++------
# test/redraw.c                  |   6 +--
# test/savescreen.c              |  14 ++++----
# test/tclock.c                  |   4 +-
# test/test.priv.h
                 |  10 +++---
# test/test_add_wchstr.c         |   6 +--
# test/test_addchstr.c           |   6 +--
# test/test_addstr.c             |   6 +--
# test/test_addwstr.c            |   6 +--
# test/test_endwin.c             |   6 +--
# test/test_get_wstr.c           |   8 ++--
# test/test_getstr.c             |   8 ++--
# test/test_instr.c              |   8 ++--
# test/test_inwstr.c             |   8 ++--
# test/test_mouse.c              |   4 +-
# test/test_opaque.c             |   8 ++--
# test/test_sgr.c                |  26 +++++++--------
# test/test_tparm.c              |  12 +++----
# test/test_vidputs.c            |   6 +--
# test/testcurs.c                |   8 ++--
# test/testscanw.c               |   6 +--
# test/view.c                    |  21 +++++-------
# 83 files changed, 392 insertions(+), 369 deletions(-)
# ------------------------------------------------------------------------------
Index: NEWS
Prereq:
  1.4185
--- ncurses-6.5-20240928+/NEWS 2024-09-28 20:27:44.000000000 +0000
+++ ncurses-6.5-20241006/NEWS 2024-10-06 08:53:45.000000000 +0000
@@ -26,7 +26,7 @@
-- sale, use or other dealings in this Software without prior written        --
-- authorization.                                                            --
------------------------------------------------------------------------------
--- $Id: NEWS,v 1.4185 2024/09/28 20:27:44 tom Exp $
+-- $Id: NEWS,v 1.4188 2024/10/06 08:53:45 tom Exp $
------------------------------------------------------------------------------

This is a log of changes that ncurses has gone through since Zeyd started
@@ -46,6 +46,10 @@
Changes through 1.9.9e did not credit all contributions;
```

```
it is not possible to add this information.

+20241006
+ + fixes for compiler warnings/cppcheck.
+ + use xterm+alt+title in wezterm -TD
+
20240928
 + improve error-message from infocmp when a terminal entry cannot be
   opened (patch by Branden Robinson).
Index:
 VERSION
--- ncurses-6.5-20240928+/VERSION 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/VERSION 2024-10-06 08:53:45.000000000 +0000
@@ -1 +1 @@
-5:0:10 6.5 20240928
+5:0:10 6.5 20241006
Index: c++/cursesf.cc
Prereq:  1.26
--- ncurses-6.5-20240928+/c++/cursesf.cc 2021-04-17 18:11:08.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesf.cc 2024-10-05 22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
// * this is for making emacs happy: -*-Mode: C++;-*-
/****************************************************************************
- * Copyright 2019-2020,2021 Thomas E. Dickey                                *
+ * Copyright 2019-2021,2024 Thomas E. Dickey                                *
 * Copyright 1998-2005,2011 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -36,7 +36,7 @@
#include "cursesf.h"
#include "cursesapp.h"

-MODULE_ID("$Id: cursesf.cc,v 1.26 2021/04/17 18:11:08 tom Exp $")
+MODULE_ID("$Id: cursesf.cc,v 1.27 2024/10/05 22:47:12 tom Exp $")

NCursesFormField::~NCursesFormField () THROWS(NCursesException)
{
@@ -76,7 +76,7 @@

void NCursesForm::setDefaultAttributes()
{
-  NCursesApplication* S = NCursesApplication::getApplication();
+  const NCursesApplication* S = NCursesApplication::getApplication();

  int n = count();
  if (n > 0) {
Index: c++/cursesf.h
Prereq:  1.39
```

```
--- ncurses-6.5-20240928+/c++/cursesf.h 2022-08-20 20:52:15.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesf.h 2024-10-05 22:47:12.000000000 +0000
@@ -1,7 +1,7 @@
// * This makes emacs happy -*-Mode: C++;-*-
// vile:cppmode
/******************************************************************************
- * Copyright 2019-2021,2022 Thomas E. Dickey                                  *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                  *
 * Copyright 1998-2012,2014 Free Software
 Foundation, Inc.                 *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -33,7 +33,7 @@
 *   Author: Juergen Pfeifer, 1997                                            *
 ******************************************************************************/

-// $Id: cursesf.h,v 1.39 2022/08/20 20:52:15 tom Exp $
+// $Id: cursesf.h,v 1.40 2024/10/05 22:47:12 tom Exp $

#ifndef NCURSES_CURSESF_H_incl
#define NCURSES_CURSESF_H_incl 1
@@ -384,7 +384,7 @@
  }

  inline void *get_user() {
-    UserHook* uptr = reinterpret_cast<UserHook*>(::form_userptr (form));
+    const UserHook* uptr = reinterpret_cast<UserHook*>(::form_userptr (form));
    assert (uptr != 0 && uptr->m_back==this && uptr->m_owner==form);
    return uptr->m_user;
  }
Index: c++/cursesm.cc
Prereq:  1.27
--- ncurses-6.5-20240928+/c++/cursesm.cc 2021-04-17 18:11:08.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesm.cc 2024-10-05
 22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
// * this is for making emacs happy: -*-Mode: C++;-*-
/******************************************************************************
- * Copyright 2019-2020,2021 Thomas E. Dickey                                  *
+ * Copyright 2019-2021,2024 Thomas E. Dickey                                  *
 * Copyright 1998-2011,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -36,7 +36,7 @@
#include "cursesm.h"
#include "cursesapp.h"

-MODULE_ID("$Id: cursesm.cc,v 1.27 2021/04/17 18:11:08 tom Exp $")
```

```
+MODULE_ID("$Id: cursesm.cc,v 1.28 2024/10/05 22:47:12 tom Exp $")

NCursesMenuItem::~NCursesMenuItem() THROWS(NCursesException)
{
@@ -168,7 +168,7 @@
void
NCursesMenu::setDefaultAttributes()
{
-  NCursesApplication* S = NCursesApplication::getApplication();
+
  const NCursesApplication* S = NCursesApplication::getApplication();
  if (S) {
    ::set_menu_fore(menu, S->foregrounds());
    ::set_menu_back(menu, S->backgrounds());
Index: c++/cursesm.h
Prereq:  1.35
--- ncurses-6.5-20240928+/c++/cursesm.h 2022-08-20 20:52:15.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesm.h 2024-10-05 22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
// * This makes emacs happy -*-Mode: C++;-*-
/****************************************************************************
- * Copyright 2019-2020,2022 Thomas E. Dickey                                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                *
 * Copyright 1998-2012,2014 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -32,7 +32,7 @@
 *   Author: Juergen Pfeifer, 1997                                          *
 ****************************************************************************/

-// $Id: cursesm.h,v 1.35 2022/08/20 20:52:15 tom Exp $
+// $Id: cursesm.h,v 1.36 2024/10/05 22:47:12 tom Exp $

#ifndef NCURSES_CURSESM_H_incl
#define NCURSES_CURSESM_H_incl 1
@@ -245,7 +245,7 @@
  }

  inline void *get_user() {
-    UserHook* uptr = STATIC_CAST(UserHook*)(::menu_userptr (menu));
+    const UserHook* uptr = STATIC_CAST(UserHook*)(::menu_userptr (menu));
    assert (uptr != 0 && uptr->m_back==this && uptr->m_owner==menu);
    return uptr->m_user;
  }
Index: c++/cursesp.cc
Prereq:  1.27
--- ncurses-6.5-20240928+/c++/cursesp.cc 2020-02-02 23:34:34.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesp.cc 2024-10-05 22:47:12.000000000 +0000
```

```
@@ -1,6 +1,6 @@
// * this is for making emacs happy: -*-Mode: C++;-*-
/******************************************************************************
- * Copyright 2019,2020 Thomas E. Dickey                                       *
+ * Copyright 2019-2020,2024
 Thomas E. Dickey                                                             *
 * Copyright 1998-2003,2005 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -35,7 +35,7 @@
#include "internal.h"
#include "cursesp.h"

-MODULE_ID("$Id: cursesp.cc,v 1.27 2020/02/02 23:34:34 tom Exp $")
+MODULE_ID("$Id: cursesp.cc,v 1.28 2024/10/05 22:47:12 tom Exp $")

NCursesPanel* NCursesPanel::dummy = static_cast<NCursesPanel*>(0);

@@ -64,7 +64,7 @@
void
NCursesPanel::redraw()
{
-  PANEL *pan;
+  const PANEL *pan;

  pan = ::panel_above(NULL);
  while (pan) {
Index: c++/cursespad.cc
Prereq:  1.18
--- ncurses-6.5-20240928+/c++/cursespad.cc 2020-02-02 23:34:34.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursespad.cc 2024-10-05 22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
// * this is for making emacs happy: -*-Mode: C++;-*-
/******************************************************************************
-
 * Copyright 2020 Thomas E. Dickey                                            *
+ * Copyright 2020,2024 Thomas E. Dickey                                       *
 * Copyright 1999-2012,2013 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -36,7 +36,7 @@

#include <cursesw.h>

-MODULE_ID("$Id: cursespad.cc,v 1.18 2020/02/02 23:34:34 tom Exp $")
+MODULE_ID("$Id: cursespad.cc,v 1.19 2024/10/05 22:47:12 tom Exp $")

NCursesPad::NCursesPad(int nlines, int ncols)
```

```
  : NCursesWindow(),
@@ -221,7 +221,7 @@
void NCursesFramedPad::OnOperation(int pad_req)
{
  (void) pad_req;
-  NCursesWindow* W = Win();
+  const NCursesWindow* W = Win();
  NCursesWindow* W2 = getWindow();

  if ((static_cast<NCursesWindow*>(0) != W) && (static_cast<NCursesWindow*>(0) != W2)) {
Index: c++/cursslk.cc
Prereq:
  1.22
--- ncurses-6.5-20240928+/c++/cursslk.cc 2024-06-15 21:07:30.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursslk.cc 2024-10-05 19:36:22.000000000 +0000
@@ -35,10 +35,10 @@
#include "internal.h"
#include "cursesapp.h"

-MODULE_ID("$Id: cursslk.cc,v 1.22 2024/06/15 21:07:30 tom Exp $")
+MODULE_ID("$Id: cursslk.cc,v 1.23 2024/10/05 19:36:22 tom Exp $")

Soft_Label_Key_Set::Soft_Label_Key&
-  Soft_Label_Key_Set::Soft_Label_Key::operator=(char *text)
+  Soft_Label_Key_Set::Soft_Label_Key::operator=(const char *text)
{
  delete[] label;
  size_t need = 1 + ::strlen(text);
@@ -111,11 +111,11 @@

void Soft_Label_Key_Set::activate_label(int i, bool bf) {
  if (!b_attrInit) {
-    NCursesApplication* A = NCursesApplication::getApplication();
+    const NCursesApplication* A = NCursesApplication::getApplication();
    if (A) attrset(A->labels());
    b_attrInit = TRUE;
  }
-  Soft_Label_Key& K = (*this)[i];
+  const Soft_Label_Key& K = (*this)[i];
  if (ERR==::slk_set(K.num,bf?K.label:"",K.format))
     Error("slk_set");
  noutrefresh();
@@ -124,12 +124,12 @@
void Soft_Label_Key_Set::activate_labels(bool bf)
{
  if (!b_attrInit) {
-    NCursesApplication* A = NCursesApplication::getApplication();
+    const NCursesApplication* A = NCursesApplication::getApplication();
```

```
    if (A) attrset(A->labels());
    b_attrInit = TRUE;
  }
  for(int i=1; i <= num_labels; i++) {
-    Soft_Label_Key& K = (*this)[i];
+    const Soft_Label_Key& K = (*this)[i];
    if (ERR==::slk_set(K.num,bf?K.label:"",K.format))
      Error("slk_set");
  }
Index: c++/cursslk.h
Prereq:  1.19
--- ncurses-6.5-20240928+/c++/cursslk.h 2021-04-17 18:11:08.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursslk.h 2024-10-05 22:47:12.000000000 +0000
@@ -1,7 +1,7 @@
// * this is for making emacs happy: -*-Mode: C++;-*-
// vile:cppmode
/******************************************************************************
- * Copyright 2019-2020,2021 Thomas E. Dickey
            *
+ * Copyright 2019-2021,2024 Thomas E. Dickey                              *
 * Copyright 1998-2003,2005 Free Software Foundation, Inc.                 *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -33,7 +33,7 @@
 *   Author: Juergen Pfeifer, 1997                                          *
 ******************************************************************************/

-// $Id: cursslk.h,v 1.19 2021/04/17 18:11:08 tom Exp $
+// $Id: cursslk.h,v 1.20 2024/10/05 22:47:12 tom Exp $

#ifndef NCURSES_CURSSLK_H_incl
#define NCURSES_CURSSLK_H_incl
@@ -62,7 +62,7 @@

  public:
    // Set the text of the Label
-    Soft_Label_Key& operator=(char *text);
+    Soft_Label_Key& operator=(const char *text);

    // Set the Justification of the Label
    Soft_Label_Key& operator=(Justification just) {
Index: dist.mk
Prereq:  1.1634
--- ncurses-6.5-20240928+/dist.mk 2024-09-28
 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/dist.mk 2024-10-06 08:53:45.000000000 +0000
@@ -26,7 +26,7 @@
# use or other dealings in this Software without prior written              #
```

```
# authorization.                                        #
##############################################################################
-# $Id: dist.mk,v 1.1634 2024/09/28 09:53:21 tom Exp $
+# $Id: dist.mk,v 1.1636 2024/10/06 08:53:45 tom Exp $
# Makefile for creating ncurses distributions.
#
# This only needs to be used directly as a makefile by developers, but
@@ -38,7 +38,7 @@
# These define the major/minor/patch versions of ncurses.
NCURSES_MAJOR = 6
NCURSES_MINOR = 5
-NCURSES_PATCH = 20240928
+NCURSES_PATCH = 20241006

# We don't append the patch to the version, since this only applies to releases
VERSION = $(NCURSES_MAJOR).$(NCURSES_MINOR)
Index: misc/terminfo.src
--- ncurses-6.5-20240928+/misc/terminfo.src 2024-09-07 16:23:31.000000000
 +0000
+++ ncurses-6.5-20241006/misc/terminfo.src 2024-10-05 16:04:17.000000000 +0000
@@ -6,8 +6,8 @@
# Report bugs and new terminal descriptions to
# bug-ncurses@gnu.org
#
-# $Revision: 1.1150 $
-# $Date: 2024/09/07 16:23:31 $
+# $Revision: 1.1153 $
+# $Date: 2024/10/05 16:04:17 $
#
# The original header is preserved below for reference.  It is noted that there
# is a "newer" version which differs in some cosmetic details (but actually
@@ -8060,6 +8060,17 @@
# "wezterm is a terminal emulator with support for modern features
#  such as fonts with ligatures, hyperlinks, tabs and multiple windows."
#
+# The documentation bears mention.  It refers to the "ANSI" standard and
+#  https://wezfurlong.org/wezterm/what-is-a-terminal.html#ansi-and-ecma-48
+# X3.64 (withdrawn long ago).  A related website
+# https://github.com/wez/ecma48
+# states that ECMA-48 was issued in 1979 and not revised since.  Actually that
+# was the second revision; the fifth revision in 1991 is current.  The source
+#
 code refers to the second revision in a half-dozen places.  Further, there
+# are three times as many references to Wikipedia as to xterm's documentation.
+# The git commit comments in several instances hint at an incomplete reading
+# of the relevant standards.
+#
# wezterm-20240203-110809-5046fc22 tested with MacOS
```

```
# General:
# + initial screensize is now 80x24
@@ -8094,7 +8105,7 @@
# + poor (doesn't copy anyone, most of the results are wrong)
# vttest:
# + DA is VT5xx with sixel, selective erase, user windows, color
-# + DA2 is VT220 version 277
+# + DA2 is VT220 version 277, perhaps a reference to xterm #277
# + only the VT100 character set works, contrary to DA/DA2.
# + no NRCS, either
# + double-sized character work, with some debris
@@ -8136,7 +8147,7 @@
 use=ansi+rep, use=ansi+sgrdim, use=bracketed+paste,
 use=ecma+index, use=ecma+italics, use=ecma+strikeout,
 use=report+version, use=vt220+cvis,
- use=xterm+256color2, use=xterm+alt1049,
+ use=xterm+256color2,
 use=xterm+alt+title,
 use=xterm+focus, use=xterm+pcc2, use=xterm+pce2,
 use=xterm+pcf2, use=xterm+sl-alt, use=xterm+sm+1006,
 use=xterm+tmux,
@@ -27644,4 +27655,8 @@
# 2024-09-07
# + update comments -TD
#
+# 2024-10-05
+# + use xterm+alt+title in wezterm -TD
+# + update comments -TD
+#
######## SHANTIH!  SHANTIH!  SHANTIH!
Index: ncurses/base/lib_screen.c
Prereq:  1.108
--- ncurses-6.5-20240928+/ncurses/base/lib_screen.c 2024-09-22 20:20:36.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/base/lib_screen.c 2024-10-05 20:47:44.000000000 +0000
@@ -42,7 +42,7 @@
#define CUR SP_TERMTYPE
#endif

-MODULE_ID("$Id: lib_screen.c,v 1.108 2024/09/22 20:20:36 tom Exp $")
+MODULE_ID("$Id: lib_screen.c,v 1.109 2024/10/05 20:47:44 tom Exp $")

#define MAX_SIZE 0x3fff  /* 16k is big enough for a window or pad */

@@ -943,7 +943,7 @@
 * Replace a window covering the whole screen, i.e., newscr or curscr.
 */
static WINDOW *
-replace_window(WINDOW *target, FILE *source)
```

```
+replace_window(const
 WINDOW *target, FILE *source)
{
   WINDOW *result = getwin(source);
#if NCURSES_EXT_FUNCS
Index: ncurses/base/new_pair.c
Prereq:  1.24
--- ncurses-6.5-20240928+/ncurses/base/new_pair.c 2024-07-27 19:22:23.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/base/new_pair.c 2024-10-05 20:51:29.000000000 +0000
@@ -61,7 +61,7 @@

#endif

-MODULE_ID("$Id: new_pair.c,v 1.24 2024/07/27 19:22:23 tom Exp $")
+MODULE_ID("$Id: new_pair.c,v 1.25 2024/10/05 20:51:29 tom Exp $")

#if NCURSES_EXT_COLORS

@@ -193,7 +193,7 @@
 * pair table.
 */
NCURSES_EXPORT(void)
-_nc_reset_color_pair(SCREEN *sp, int pair, colorpair_t * next)
+_nc_reset_color_pair(SCREEN *sp, int pair, const colorpair_t * next)
{
   colorpair_t *last;

Index: ncurses/curses.priv.h
Prereq:  1.691
--- ncurses-6.5-20240928+/ncurses/curses.priv.h 2024-09-28 15:35:01.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/curses.priv.h 2024-10-05 21:01:50.000000000 +0000
@@ -35,7 +35,7 @@
 ****************************************************************************/

/*
- * $Id: curses.priv.h,v 1.691 2024/09/28 15:35:01 tom Exp $
+ * $Id: curses.priv.h,v 1.692 2024/10/05 21:01:50 tom Exp $
 *
 * curses.priv.h
 *
@@ -2170,7 +2170,7 @@
extern NCURSES_EXPORT(int) _nc_read_termcap_entry (const char *const, TERMTYPE2 *const);
extern NCURSES_EXPORT(int) _nc_setup_tinfo(const char *, TERMTYPE2 *);
extern NCURSES_EXPORT(int) _nc_setupscreen (int, int, FILE *, int, int);
-extern NCURSES_EXPORT(int) _nc_timed_wait (SCREEN *, int, int, int * EVENTLIST_2nd(_nc_eventlist *));
+extern NCURSES_EXPORT(int) _nc_timed_wait (const SCREEN *, int, int, int *
EVENTLIST_2nd(_nc_eventlist *));
extern NCURSES_EXPORT(int) _nc_trans_string (char *, const char *);
```

```
extern NCURSES_EXPORT(void) _nc_init_termtype (TERMTYPE2 *const);
extern NCURSES_EXPORT(void) _nc_do_color (int, int, int, NCURSES_OUTC);
Index: ncurses/new_pair.h
Prereq:  1.14
--- ncurses-6.5-20240928+/ncurses/new_pair.h 2024-05-25 23:10:33.000000000 +0000
+++
 ncurses-6.5-20241006/ncurses/new_pair.h 2024-10-05 20:57:47.000000000 +0000
@@ -34,7 +34,7 @@
/*
 * Common type definitions and macros for new_pair.c, lib_color.c
 *
- * $Id: new_pair.h,v 1.14 2024/05/25 23:10:33 tom Exp $
+ * $Id: new_pair.h,v 1.15 2024/10/05 20:57:47 tom Exp $
 */

#ifndef NEW_PAIR_H
@@ -116,7 +116,7 @@
#if NCURSES_EXT_FUNCS && NCURSES_EXT_COLORS
extern NCURSES_EXPORT(void)     _nc_copy_pairs(SCREEN*, colorpair_t*, colorpair_t*, int);
extern NCURSES_EXPORT(void)     _nc_free_ordered_pairs(SCREEN*);
-extern NCURSES_EXPORT(void)     _nc_reset_color_pair(SCREEN*, int, colorpair_t*);
+extern NCURSES_EXPORT(void)     _nc_reset_color_pair(SCREEN*, int, const colorpair_t*);
extern NCURSES_EXPORT(void)     _nc_set_color_pair(SCREEN*, int, int);
#else
#define _nc_free_ordered_pairs(sp) /* nothing */
Index: ncurses/tinfo/trim_sgr0.c
Prereq:  1.23
--- ncurses-6.5-20240928+/ncurses/tinfo/trim_sgr0.c 2024-07-27 19:22:23.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/tinfo/trim_sgr0.c 2024-10-05
 20:53:48.000000000 +0000
@@ -37,7 +37,7 @@

#include <tic.h>

-MODULE_ID("$Id: trim_sgr0.c,v 1.23 2024/07/27 19:22:23 tom Exp $")
+MODULE_ID("$Id: trim_sgr0.c,v 1.24 2024/10/05 20:53:48 tom Exp $")

#undef CUR
#define CUR tp->
@@ -237,12 +237,10 @@

    if (PRESENT(exit_attribute_mode)
 && PRESENT(set_attributes)) {
- bool found = FALSE;
 char *on = set_attribute_9(tp, 1);
 char *off = set_attribute_9(tp, 0);
 char *end = strdup(exit_attribute_mode);
 char *tmp;
```

```
- size_t i, j, k;

 TR(TRACE_DATABASE, ("checking if we can trim sgr0 based on sgr"));
 TR(TRACE_DATABASE, ("sgr0       %s", _nc_visbuf(end)));
@@ -255,6 +253,9 @@
    FreeIfNeeded(off);
 } else if (similar_sgr(off, end)
    && !similar_sgr(off, on)) {
+    bool found = FALSE;
+    size_t i, j, k;
+
    TR(TRACE_DATABASE, ("adjusting sgr(9:off) : %s", _nc_visbuf(off)));
    result = off;
    /*
Index: ncurses/tty/lib_twait.c
Prereq:  1.81
--- ncurses-6.5-20240928+/ncurses/tty/lib_twait.c 2023-09-16
 16:30:40.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/tty/lib_twait.c 2024-10-05 22:47:12.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2018-2020,2023 Thomas E. Dickey                                  *
+ * Copyright 2018-2023,2024 Thomas E. Dickey                                  *
 * Copyright 1998-2015,2016 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -76,7 +76,7 @@
#endif
#undef CUR

-MODULE_ID("$Id: lib_twait.c,v 1.81 2023/09/16 16:30:40 tom Exp $")
+MODULE_ID("$Id: lib_twait.c,v 1.82 2024/10/05 22:47:12 tom Exp $")

/*
 * Returns an elapsed time, in milliseconds (if possible).
@@ -168,7 +168,7 @@
 * descriptors.
 */
NCURSES_EXPORT(int)
-_nc_timed_wait(SCREEN *sp MAYBE_UNUSED,
+_nc_timed_wait(const
 SCREEN *sp MAYBE_UNUSED,
        int mode MAYBE_UNUSED,
        int milliseconds,
        int *timeleft
Index: package/debian-mingw/changelog
--- ncurses-6.5-20240928+/package/debian-mingw/changelog 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/debian-mingw/changelog 2024-10-06 08:53:45.000000000 +0000
```

```
@@ -1,8 +1,8 @@
-ncurses6td (6.5+20240928) unstable; urgency=low
+ncurses6td (6.5+20241006) unstable; urgency=low

  * latest weekly patch

- -- Thomas E. Dickey <dickey@invisible-island.net>  Sat, 28 Sep 2024 05:53:21 -0400
+ -- Thomas E. Dickey <dickey@invisible-island.net>  Sun, 06 Oct 2024 04:53:45 -0400

ncurses6 (5.9+20131005) unstable; urgency=low

Index: package/debian-mingw64/changelog
--- ncurses-6.5-20240928+/package/debian-mingw64/changelog 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/debian-mingw64/changelog 2024-10-06 08:53:45.000000000 +0000
@@ -1,8 +1,8 @@
-ncurses6td (6.5+20240928) unstable; urgency=low
+ncurses6td
 (6.5+20241006) unstable; urgency=low

  * latest weekly patch

- -- Thomas E. Dickey <dickey@invisible-island.net>  Sat, 28 Sep 2024 05:53:21 -0400
+ -- Thomas E. Dickey <dickey@invisible-island.net>  Sun, 06 Oct 2024 04:53:45 -0400

ncurses6 (5.9+20131005) unstable; urgency=low

Index: package/debian/changelog
--- ncurses-6.5-20240928+/package/debian/changelog 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/debian/changelog 2024-10-06 08:53:45.000000000 +0000
@@ -1,8 +1,8 @@
-ncurses6td (6.5+20240928) unstable; urgency=low
+ncurses6td (6.5+20241006) unstable; urgency=low

  * latest weekly patch

- -- Thomas E. Dickey <dickey@invisible-island.net>  Sat, 28 Sep 2024 05:53:21 -0400
+ -- Thomas E. Dickey <dickey@invisible-island.net>  Sun, 06 Oct 2024 04:53:45 -0400

ncurses6 (5.9+20120608) unstable; urgency=low

Index: package/mingw-ncurses.nsi
Prereq:  1.669
--- ncurses-6.5-20240928+/package/mingw-ncurses.nsi 2024-09-28 09:53:21.000000000 +0000
+++
 ncurses-6.5-20241006/package/mingw-ncurses.nsi 2024-10-06 08:53:45.000000000 +0000
@@ -1,4 +1,4 @@
-; $Id: mingw-ncurses.nsi,v 1.669 2024/09/28 09:53:21 tom Exp $
+; $Id: mingw-ncurses.nsi,v 1.671 2024/10/06 08:53:45 tom Exp $
```

```
; TODO add examples
; TODO bump ABI to 6
@@ -10,7 +10,7 @@
!define VERSION_MAJOR "6"
!define VERSION_MINOR "5"
!define VERSION_YYYY  "2024"
-!define VERSION_MMDD  "0928"
+!define VERSION_MMDD  "1006"
!define VERSION_PATCH ${VERSION_YYYY}${VERSION_MMDD}

!define MY_ABI   "5"
Index: package/mingw-ncurses.spec
--- ncurses-6.5-20240928+/package/mingw-ncurses.spec 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/mingw-ncurses.spec 2024-10-06 08:53:45.000000000 +0000
@@ -3,7 +3,7 @@
Summary: shared libraries for terminal handling
Name: mingw32-ncurses6
Version: 6.5
-Release: 20240928
+Release: 20241006
License: X11
Group: Development/Libraries
URL: https://invisible-island.net/ncurses/
Index: package/ncurses.spec
--- ncurses-6.5-20240928+/package/ncurses.spec 2024-09-28
 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/ncurses.spec 2024-10-06 08:53:45.000000000 +0000
@@ -1,7 +1,7 @@
Summary: shared libraries for terminal handling
Name: ncurses6
Version: 6.5
-Release: 20240928
+Release: 20241006
License: X11
Group: Development/Libraries
URL: https://invisible-island.net/ncurses/
Index: package/ncursest.spec
--- ncurses-6.5-20240928+/package/ncursest.spec 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/ncursest.spec 2024-10-06 08:53:45.000000000 +0000
@@ -1,7 +1,7 @@
Summary: Curses library with POSIX thread support.
Name: ncursest6
Version: 6.5
-Release: 20240928
+Release: 20241006
License: X11
Group: Development/Libraries
```

```
Source: ncurses-%{version}-%{release}.tgz
Index: test/blue.c
Prereq:  1.55
--- ncurses-6.5-20240928+/test/blue.c 2022-12-10 23:31:31.000000000 +0000
+++ ncurses-6.5-20241006/test/blue.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
-
 * Copyright 2019-2021,2022 Thomas E. Dickey                                  *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                  *
 * Copyright 1998-2016,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -37,7 +37,7 @@
 ******************************************************************************/

/*
- * $Id: blue.c,v 1.55 2022/12/10 23:31:31 tom Exp $
+ * $Id: blue.c,v 1.56 2024/10/05 19:26:24 tom Exp $
 */

#include <test.priv.h>
@@ -437,7 +437,7 @@
static void
use_pc_display(void)
{
-    char *check = nl_langinfo(CODESET);
+    const char *check = nl_langinfo(CODESET);
    if (!strcmp(check, "UTF-8")) {
#if USE_WIDEC_SUPPORT
 suits = uglyphs;
@@ -448,8 +448,8 @@
     !strcmp(check, "CP437") ||
     !strcmp(check,
 "IBM850") ||
     !strcmp(check, "CP850")) {
-     char *smacs = tigetstr("smacs");
-     char *smpch = tigetstr("smpch");
+     const char *smacs = tigetstr("smacs");
+     const char *smpch = tigetstr("smpch");
     /*
      * The ncurses library makes this check to decide whether to allow
      * the alternate character set for the (normally) nonprinting codes.
Index: test/bs.c
Prereq:  1.79
--- ncurses-6.5-20240928+/test/bs.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/bs.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
```

```
/******************************************************************************
- * Copyright 2018-2022,2023 Thomas E. Dickey                                 *
+ * Copyright 2018-2023,2024 Thomas E. Dickey                                 *
 * Copyright 1998-2016,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge,
 to any person obtaining a  *
@@ -35,7 +35,7 @@
 * v2.0 featuring strict ANSI/POSIX conformance, November 1993.
 * v2.1 with ncurses mouse support, September 1995
 *
- * $Id: bs.c,v 1.79 2023/05/27 20:13:10 tom Exp $
+ * $Id: bs.c,v 1.80 2024/10/05 19:26:24 tom Exp $
 */

#include <test.priv.h>
@@ -147,7 +147,7 @@
   bool placed;  /* has it been placed on the board? */
} ship_t;

-static bool checkplace(int b, ship_t * ss, int vis);
+static bool checkplace(int b, const ship_t * ss, int vis);

#define SHIPIT(name, symbol, length) { name, 0, symbol, length, 0,0, 0, FALSE }

@@ -686,7 +686,7 @@
}

static bool
-checkplace(int b, ship_t * ss, int vis)
+checkplace(int b, const ship_t * ss, int vis)
{
   int l, xend, yend;

Index: test/cardfile.c
Prereq:  1.51
--- ncurses-6.5-20240928+/test/cardfile.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/cardfile.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
-
 * Copyright 2019-2021,2022 Thomas E. Dickey                                  *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                 *
 * Copyright 1999-2016,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -30,7 +30,7 @@
/*
```

```
 * Author: Thomas E. Dickey
 *
- * $Id: cardfile.c,v 1.51 2022/12/04 00:40:11 tom Exp $
+ * $Id: cardfile.c,v 1.52 2024/10/05 19:26:24 tom Exp $
 *
 * File format: text beginning in column 1 is a title; other text is content.
 */
@@ -161,7 +161,7 @@
}

static CARD *
-find_card(char *title)
+find_card(const char *title)
{
   CARD *card;

@@ -173,7 +173,7 @@
}

static void
-read_data(char *fname)
+read_data(const char *fname)
{
   FILE *fp;

@@ -341,7 +341,7 @@
}

static FIELD **
-make_fields(CARD * p, int form_high,
 int form_wide)
+make_fields(const CARD * p, int form_high, int form_wide)
{
   FIELD **f = typeCalloc(FIELD *, (size_t) 3);

@@ -385,7 +385,7 @@
/*******************************************************************************/

static void
-cardfile(char *fname)
+cardfile(const char *fname)
{
   WINDOW *win;
   CARD *p;
Index: test/chgat.c
Prereq:  1.21
--- ncurses-6.5-20240928+/test/chgat.c 2024-06-29 17:45:32.000000000 +0000
+++ ncurses-6.5-20241006/test/chgat.c 2024-10-06 22:35:55.000000000 +0000
```

```
@@ -27,7 +27,7 @@
 * authorization.                                       *
 ****************************************************************************/
/*
- * $Id: chgat.c,v 1.21 2024/06/29 17:45:32 tom Exp $
+ * $Id: chgat.c,v 1.23 2024/10/06 22:35:55 tom Exp $
 *
 * test-driver for chgat/wchgat/mvchgat/mvwchgat
 */
@@ -160,7 +160,7 @@
}

static void
-do_subwindow(WINDOW *win, STATUS * sp, void func(WINDOW *))
+do_subwindow(WINDOW *win, const STATUS
 * sp, void func(WINDOW *))
{
   WINDOW *win1 = newwin(sp->y_max - 2, sp->x_max - 2,
    sp->y_beg + 1, sp->x_beg + 1);
@@ -204,7 +204,7 @@
static void
show_help(WINDOW *win)
{
-    static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
   {
 "Basic commands:"
 ,"Use h/j/k/l or arrow keys to move the cursor."
Index: test/clip_printw.c
Prereq:  1.23
--- ncurses-6.5-20240928+/test/clip_printw.c 2023-09-30 19:57:44.000000000 +0000
+++ ncurses-6.5-20241006/test/clip_printw.c 2024-10-06 22:36:25.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                                *
 * Copyright 2008-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge,
 to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                       *
 ****************************************************************************/
/*
- * $Id: clip_printw.c,v 1.23 2023/09/30 19:57:44 tom Exp $
+ * $Id: clip_printw.c,v 1.25 2024/10/06 22:36:25 tom Exp $
 *
 * demonstrate how to use printw with/without wrapping.
```

```
 */
@@ -212,7 +212,7 @@
}

static void
-do_subwindow(WINDOW *win, STATUS * sp, void func(WINDOW *))
+do_subwindow(WINDOW *win, const STATUS * sp, void func(WINDOW *))
{
   WINDOW *win1 = newwin(sp->y_max - (2 * MARGIN),
    sp->x_max - (2 * MARGIN),
@@ -268,7 +268,7 @@
static void
show_help(WINDOW *win)
{
-   static const char *msgs[] =
+   static NCURSES_CONST char *msgs[] =
   {
 "Basic commands:"
 ,"Use h/j/k/l or arrow keys to move the cursor."
Index: test/color_name.h
Prereq:  1.9
--- ncurses-6.5-20240928+/test/color_name.h 2021-04-24 23:25:29.000000000 +0000
+++ ncurses-6.5-20241006/test/color_name.h 2024-10-05
 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2018-2020,2021 Thomas E. Dickey                                  *
+ * Copyright 2018-2021,2024 Thomas E. Dickey                                  *
 * Copyright 2011-2012,2016 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                             *
 ******************************************************************************/
/*
- * $Id: color_name.h,v 1.9 2021/04/24 23:25:29 tom Exp $
+ * $Id: color_name.h,v 1.10 2024/10/05 19:26:24 tom Exp $
 */

#ifndef __COLORNAME_H
@@ -63,7 +63,6 @@
{
   int result = 0;
   char *endp = 0;
-   size_t n;

   if ((result = (int) strtol(color,
```

```
 &endp, 0)) >= 0
 && (endp == 0 || *endp == 0)) {
@@ -71,6 +70,7 @@
    } else if (!strcmp(color, "default")) {
 result = -1;
    } else {
+ size_t n;
 for (n = 0; n < SIZEOF(the_color_names); ++n) {
     if (!strcmp(the_color_names[n], color)) {
  result = (int) n;
Index: test/demo_defkey.c
Prereq:  1.35
--- ncurses-6.5-20240928+/test/demo_defkey.c 2024-01-20 20:46:12.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_defkey.c 2024-10-05 18:20:04.000000000 +0000
@@ -27,7 +27,7 @@
 * authorization.                                             *
 ******************************************************************************/
/*
- * $Id: demo_defkey.c,v 1.35 2024/01/20 20:46:12 tom Exp $
+ * $Id: demo_defkey.c,v 1.36 2024/10/05 18:20:04 tom Exp $
 *
 * Demonstrate the define_key() function.
 * Thomas Dickey - 2002/11/23
@@ -199,7 +199,7 @@
}

static void
-redefine(WINDOW *win, char *string, int code)
+redefine(WINDOW *win, const char *string, int code)
{

   really_define_key(win, string, code);
}
Index: test/demo_forms.c
Prereq:  1.63
--- ncurses-6.5-20240928+/test/demo_forms.c 2023-11-11 00:29:53.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_forms.c 2024-10-06 21:15:12.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2018-2022,2023 Thomas E. Dickey                                  *
+ * Copyright 2018-2023,2024 Thomas E. Dickey                                  *
 * Copyright 2003-2016,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                             *
 ******************************************************************************/
/*
```

```
- * $Id: demo_forms.c,v 1.63 2023/11/11 00:29:53 tom Exp $
+ * $Id: demo_forms.c,v 1.67
 2024/10/06 21:15:12 tom Exp $
 *
 * Demonstrate a variety of functions from the form library.
 * Thomas Dickey - 2003/4/26
@@ -148,7 +148,7 @@
}

static FIELD *
-make_label(const char *label, int frow, int fcol)
+make_label(NCURSES_CONST char *label, int frow, int fcol)
{
   FIELD *f = new_field(1, (int) strlen(label), frow, fcol, 0, 0);

@@ -242,7 +242,7 @@
#define O_SELECTABLE (O_ACTIVE | O_VISIBLE)

static FIELD *
-another_field(FORM *form, const FIELD *const field)
+another_field(NCURSES_CONST FORM *form, NCURSES_CONST FIELD *const field)
{
   FIELD **f = form_fields(form);
   FIELD *result = 0;
@@ -306,9 +306,9 @@
}

static void
-show_current_field(WINDOW *win, FORM *form)
+show_current_field(WINDOW *win, NCURSES_CONST FORM *form)
{
-    FIELD *field;
+    NCURSES_CONST FIELD *field;
   int field_rows, field_cols, field_max;
   int currow, curcol;

@@ -325,7 +325,7 @@
   waddch(win, '\n');

   if ((field = current_field(form)) != 0) {
- FIELDTYPE *type;
+ NCURSES_CONST
 FIELDTYPE *type;
 int nbuf;

 wprintw(win, "Page %d%s, Field %d/%d%s:",
@@ -383,7 +383,7 @@
```

```
 waddstr(win, "\n");
 for (nbuf = 0; nbuf <= 2; ++nbuf) {
-     char *buffer;
+     NCURSES_CONST char *buffer;
     if ((buffer = field_buffer(field, nbuf)) != 0) {
  wprintw(win, "buffer %d:", nbuf);
  (void) wattrset(win, A_REVERSE);
@@ -408,8 +408,8 @@
    int c;
    unsigned n = 0;
    int pg;
-    const char *fname;
-    static const char *my_enum[] =
+    NCURSES_CONST char *fname;
+    static NCURSES_CONST char *my_enum[] =
    {"first", "second", "third", 0};

#ifdef NCURSES_MOUSE_VERSION
@@ -515,7 +515,7 @@
    f[n] = (FIELD *) 0;

    if ((form = new_form(f)) != 0) {
- WINDOW *w;
+ NCURSES_CONST WINDOW *w;
 WINDOW *also;
 int finished = 0;

Index: test/demo_menus.c
Prereq:  1.80
--- ncurses-6.5-20240928+/test/demo_menus.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_menus.c 2024-10-06 19:58:28.000000000 +0000
@@ -1,5
 +1,5 @@
/******************************************************************************
- * Copyright 2019-2022,2023 Thomas E. Dickey                                  *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                                  *
 * Copyright 2003-2016,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                             *
 ******************************************************************************/
/*
- * $Id: demo_menus.c,v 1.80 2023/05/27 20:13:10 tom Exp $
+ * $Id: demo_menus.c,v 1.82 2024/10/06 19:58:28 tom Exp $
 *
 * Demonstrate a variety of functions from the menu library.
 * Thomas Dickey - 2005/4/9
```

```
@@ -185,7 +185,7 @@
}

static int
-menu_getc(MENU * m)
+menu_getc(NCURSES_CONST MENU * m)
{
   return wGetchar(menu_win(m));
 }
@@ -214,7 +214,7 @@
my_menu_init(MENU * menu)
{
   Trace(("called MenuHook my_menu_init"));
-   mvwprintw(status, 2, 0, "menu_init %p", (void *) menu);
+   mvwprintw(status, 2, 0, "menu_init %p", (const void *) menu);
   wclrtoeol(status);
   wrefresh(status);
}
@@ -223,7 +223,7 @@
my_menu_term(MENU * menu)
{
   Trace(("called MenuHook my_menu_term"));
-   mvwprintw(status, 2, 0, "menu_term %p", (void *) menu);
+   mvwprintw(status, 2, 0, "menu_term %p", (const void *) menu);
   wclrtoeol(status);
   wrefresh(status);
}
@@ -231,7 +231,7 @@
static void
my_item_init(MENU * menu)
{
-   ITEM *item = current_item(menu);
+   NCURSES_CONST ITEM *item = current_item(menu);
   const char *name = item_name(item);

   Trace(("called MenuHook my_item_init (%s)", name));
@@ -243,7 +243,7 @@
static void
my_item_term(MENU * menu)
{
-   ITEM *item = current_item(menu);
+   NCURSES_CONST ITEM *item = current_item(menu);
   const char *name = item_name(item);

   Trace(("called MenuHook my_item_term (%s)", name));
@@ -348,7 +348,7 @@

/* force the given menu to appear */
```

```
static void
-menu_display(MENU * m)
+menu_display(NCURSES_CONST MENU * m)
{
   touchwin(menu_win(m));
   wrefresh(menu_win(m));
@@ -584,10 +584,10 @@
 * the others
 */
static bool
-update_trace_menu(MENU * m)
+update_trace_menu(NCURSES_CONST MENU * m)
{
   ITEM **items;
-   ITEM *i;
+   NCURSES_CONST ITEM *i;
   bool changed = FALSE;

   items = menu_items(m);
@@ -613,7 +613,7 @@
   int result;

   for (ip = menu_items(mpTrace); *ip; ip++) {
- MENU_DATA *td = (MENU_DATA *) item_userptr(*ip);
+ NCURSES_CONST MENU_DATA *td = (MENU_DATA *) item_userptr(*ip);
 unsigned mask = td->mask;
 if (mask == 0)
    set_item_value(*ip, _nc_tracing == 0);
@@ -628,7 +628,7 @@
    unsigned newtrace = 0;
    for (ip = menu_items(mpTrace); *ip; ip++) {
  if (item_value(*ip)) {
-     MENU_DATA *td = (MENU_DATA *) item_userptr(*ip);
+     NCURSES_CONST
 MENU_DATA *td = (MENU_DATA *) item_userptr(*ip);
     newtrace |= td->mask;
  }
    }
@@ -718,7 +718,9 @@
}

static int
-move_menu(MENU * menu, MENU * current, int by_y, int by_x)
+move_menu(NCURSES_CONST MENU * menu,
+   NCURSES_CONST MENU * current,
+   int by_y, int by_x)
{
   WINDOW *top_win = menu_win(menu);
```

```
   WINDOW *sub_win = menu_sub(menu);
@@ -798,7 +800,7 @@
#endif /* defined(KEY_RESIZE) && NCURSES_EXT_FUNCS */

static void
-show_status(int ch, MENU * menu)
+show_status(int ch, NCURSES_CONST MENU * menu)
{
   wmove(status, 0, 0);
   wprintw(status, "key %s, menu %d, mark %s, match %s",
@@ -919,7 +921,7 @@
 wrefresh(menu_win(last_menu));
 if (code == E_UNKNOWN_COMMAND
    || code == E_NOT_POSTED) {
-    ITEM *item = current_item(last_menu);
+    NCURSES_CONST ITEM *item = current_item(last_menu);
    MENU_DATA *td = (MENU_DATA *) item_userptr(item);
    td->func((int) td->mask);
 }
Index: test/demo_new_pair.c
Prereq:  1.28
--- ncurses-6.5-20240928+/test/demo_new_pair.c 2024-06-29
 19:30:26.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_new_pair.c 2024-10-05 18:21:44.000000000 +0000
@@ -27,7 +27,7 @@
 * authorization.                                           *
 ****************************************************************************/
/*
- * $Id: demo_new_pair.c,v 1.28 2024/06/29 19:30:26 tom Exp $
+ * $Id: demo_new_pair.c,v 1.29 2024/10/05 18:21:44 tom Exp $
 *
 * Demonstrate the alloc_pair() function.
 */
@@ -49,7 +49,7 @@
static bool
valid_cap(NCURSES_CONST char *name)
{
-   char *value = tigetstr(name);
+   const char *value = tigetstr(name);
   return (value != 0 && value != (char *) -1) ? TRUE : FALSE;
}

Index: test/demo_panels.c
Prereq:  1.48
--- ncurses-6.5-20240928+/test/demo_panels.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_panels.c 2024-10-06 20:01:21.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
```

```
-
 * Copyright 2018-2020,2022 Thomas E. Dickey                            *
+ * Copyright 2018-2022,2024 Thomas E. Dickey                            *
 * Copyright 2003-2016,2017 Free Software Foundation, Inc.              *
 *                                                                      *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                       *
 ****************************************************************************/
/*
- * $Id: demo_panels.c,v 1.48 2022/12/04 00:40:11 tom Exp $
+ * $Id: demo_panels.c,v 1.50 2024/10/06 20:01:21 tom Exp $
 *
 * Demonstrate a variety of functions from the panel library.
 */
@@ -42,7 +42,7 @@
#define TEMP_POS '>'

typedef void (*InitPanel) (void);
-typedef void (*FillPanel) (PANEL *);
+typedef void (*FillPanel) (NCURSES_CONST PANEL *);

static bool use_colors = FALSE;
static bool
 unboxed = FALSE;
@@ -301,7 +301,7 @@
 int code;
 int y0, x0;
 int y1, x1;
- WINDOW *win = panel_window(pans[which]);
+ NCURSES_CONST WINDOW *win = panel_window(pans[which]);
 char also[80];

 getbegyx(win, y0, x0);
@@ -368,7 +368,7 @@
}

static void
-fill_panel(PANEL *pan)
+fill_panel(NCURSES_CONST PANEL *pan)
{
   WINDOW *win = panel_window(pan);
   const char *userptr = (const char *) panel_userptr(pan);
@@ -388,7 +388,7 @@
}

static void
-fill_unboxed(PANEL *pan)
```

```
+fill_unboxed(NCURSES_CONST PANEL *pan)
{
   WINDOW *win = panel_window(pan);
   const char *userptr = (const char *) panel_userptr(pan);
@@ -431,7 +431,7 @@
}

static void
-fill_wide_panel(PANEL *pan)
+fill_wide_panel(NCURSES_CONST PANEL *pan)
{
   WINDOW *win = panel_window(pan);
   int num = ((const char *) panel_userptr(pan))[1];
@@ -453,7 +453,7 @@
#define MAX_PANELS 5

static int
-which_panel(PANEL *px[MAX_PANELS + 1], PANEL *pan)
+which_panel(PANEL *px[MAX_PANELS + 1], NCURSES_CONST
 PANEL *pan)
{
   int result = 0;
   int j;
Index: test/demo_termcap.c
Prereq:  1.65
--- ncurses-6.5-20240928+/test/demo_termcap.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_termcap.c 2024-10-06 20:05:09.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                                *
 * Copyright 2005-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: demo_termcap.c,v 1.65 2023/05/27 20:13:10 tom Exp $
+ * $Id: demo_termcap.c,v 1.70 2024/10/06 20:05:09 tom Exp $
 *
 * A simple demo of the termcap interface.
 */
@@ -256,7 +256,7 @@

   * to hold all of the strings extracted from the terminal entry.
    */
   char area[1024], *ap = area;
```

```
-    char *str;
+    NCURSES_CONST char *str;
    int num;

    if ((str = tgetstr(cap, &ap)) != 0) {
@@ -289,7 +289,7 @@
}

static void
-brute_force(const char *name)
+brute_force(NCURSES_CONST char *name)
{
    char buffer[1024];

@@ -369,7 +369,7 @@
#ifdef NCURSES_VERSION
 if (x_opt && (my_blob == 0) && y_opt) {
#if NCURSES_XNAMES
-     TERMTYPE *term = (TERMTYPE *) cur_term;
+     NCURSES_CONST TERMTYPE *term = (TERMTYPE *) cur_term;
     if (term != 0
  && ((NUM_BOOLEANS(term) != BOOLCOUNT)
      || (NUM_NUMBERS(term) != NUMCOUNT)
@@ -781,12 +781,12 @@
{
    int ch;
    int n;
-    char *name;
+    NCURSES_CONST char *name;
    bool a_opt = FALSE;
#if defined(NCURSES_VERSION) || defined(HAVE_CURSES_DATA_OSPEED)
    bool v_opt = FALSE;
#endif
-    char *input_name = 0;
+    NCURSES_CONST char *input_name = 0;

    int repeat;
    int r_opt = 1;
@@ -867,7
 +867,7 @@
     } else if ((name = getenv("TERM")) != 0) {
  brute_force(name);
     } else {
-  static char dumb[] = "dumb";
+  static NCURSES_CONST char dumb[] = "dumb";
  brute_force(dumb);
     }
 }
```

```
@@ -894,7 +894,7 @@
     } else if ((name = getenv("TERM")) != 0) {
  demo_termcap(name);
     } else {
-  static char dumb[] = "dumb";
+  static NCURSES_CONST char dumb[] = "dumb";
  demo_termcap(dumb);
     }
 }
Index: test/demo_terminfo.c
Prereq:  1.57
--- ncurses-6.5-20240928+/test/demo_terminfo.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_terminfo.c 2024-10-06 21:16:43.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2019-2022,2023 Thomas E. Dickey                                  *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                                  *
 * Copyright 2009-2016,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
                                                                              *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: demo_terminfo.c,v 1.57 2023/05/27 20:13:10 tom Exp $
+ * $Id: demo_terminfo.c,v 1.59 2024/10/06 21:16:43 tom Exp $
 *
 * A simple demo of the terminfo interface.
 */
@@ -253,7 +253,7 @@
#define LegalItem(c,n) (n)

static void
-brute_force(const char *name)
+brute_force(NCURSES_CONST char *name)
{
#define MAX_FORCE 5  /* omit "colors", since CPU-time is a problem */
   static const char legal[] = "\
@@ -324,7 +324,7 @@
#endif

static void
-demo_terminfo(char *name)
+demo_terminfo(NCURSES_CONST char *name)
{
   unsigned n;
   NCURSES_CONST char *cap;
```

```
@@ -366,7 +366,7 @@
    if (x_opt && (my_blob == 0)) {
 if (y_opt) {
#if NCURSES_XNAMES
-     TERMTYPE *term = (TERMTYPE *) cur_term;
+     const TERMTYPE *term = (TERMTYPE *) cur_term;
     if (term != 0
  && ((NUM_BOOLEANS(term)
 != BOOLCOUNT)
      || (NUM_NUMBERS(term) != NUMCOUNT)
@@ -813,9 +813,9 @@
    int ch;
    int n;
    int repeat;
-    char *name;
+    NCURSES_CONST char *name;
    int r_opt = 1;
-    char *input_name = 0;
+    const char *input_name = 0;

    while ((ch = getopt(argc, argv, OPTS_COMMON "abd:e:fi:nqr:sxy")) != -1) {
 switch (ch) {
@@ -891,7 +891,7 @@
     } else if ((name = getenv("TERM")) != 0) {
  brute_force(name);
     } else {
-  static char dumb[] = "dumb";
+  static NCURSES_CONST char dumb[] = "dumb";
  brute_force(dumb);
     }
 }
@@ -918,7 +918,7 @@
     } else if ((name = getenv("TERM")) != 0) {
  demo_terminfo(name);
     } else {
-  static char dumb[] = "dumb";
+  static NCURSES_CONST char dumb[] = "dumb";
  demo_terminfo(dumb);
     }
 }
Index: test/dots.c
Prereq:  1.45
--- ncurses-6.5-20240928+/test/dots.c 2023-01-07 17:21:48.000000000 +0000
+++ ncurses-6.5-20241006/test/dots.c 2024-10-06 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
-
```

```
 * Copyright 2019-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                                *
 * Copyright 1999-2013,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
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@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey <dickey@clark.net> 1999
 *
- * $Id: dots.c,v 1.45 2023/01/07 17:21:48 tom Exp $
+ * $Id: dots.c,v 1.46 2024/10/06 21:17:54 tom Exp $
 *
 * A simple demo of the terminfo interface.
 */
@@ -61,7 +61,7 @@
}

static bool
-outs(const char *s)
+outs(NCURSES_CONST char *s)
{
   if (VALID_STRING(s)) {
 tputs(s, 1, outc);
Index: test/dots_mvcur.c
Prereq:  1.31
--- ncurses-6.5-20240928+/test/dots_mvcur.c 2023-01-07 17:21:48.000000000 +0000
+++ ncurses-6.5-20241006/test/dots_mvcur.c 2024-10-06
 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2019-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                                *
 * Copyright 2007-2013,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey - 2007
 *
- * $Id: dots_mvcur.c,v 1.31 2023/01/07 17:21:48 tom Exp $
+ * $Id: dots_mvcur.c,v 1.32 2024/10/06 21:17:54 tom Exp $
 *
 * A simple demo of the terminfo interface, and mvcur.
 */
@@ -62,7 +62,7 @@
}

static bool
```

```
-outs(const char *s)
+outs(NCURSES_CONST char *s)
{
    if (VALID_STRING(s)) {
 tputs(s, 1, outc);
Index: test/dots_termcap.c
Prereq:  1.33
--- ncurses-6.5-20240928+/test/dots_termcap.c 2024-08-31
 15:55:46.000000000 +0000
+++ ncurses-6.5-20241006/test/dots_termcap.c 2024-10-06 21:18:35.000000000 +0000
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: dots_termcap.c,v 1.33 2024/08/31 15:55:46 tom Exp $
+ * $Id: dots_termcap.c,v 1.35 2024/10/06 21:18:35 tom Exp $
 *
 * A simple demo of the termcap interface.
 */
@@ -113,7 +113,7 @@
}

static bool
-outs(char *s)
+outs(NCURSES_CONST char *s)
{
    if (VALID_STRING(s)) {
 tputs(s, 1, outc);
@@ -178,7 +178,7 @@
get_number(NCURSES_CONST char *cap, const char *env)
{
    int result = tgetnum(cap);
-    char *value = env ? getenv(env) : 0;
+    const char *value = env ? getenv(env) : 0;
    if (value != 0 && *value != 0) {
 char *next = 0;
 long check = strtol(value, &next, 10);
@@ -229,7 +229,7 @@
    double c;
    char buffer[1024];
    char area[1024];
-    char *name;
+    NCURSES_CONST char *name;
    size_t need;
    char *my_env;

Index: test/dup_field.c
Prereq:  1.9
```

```
--- ncurses-6.5-20240928+/test/dup_field.c 2024-06-29
 17:45:32.000000000 +0000
+++ ncurses-6.5-20241006/test/dup_field.c 2024-10-06 20:07:19.000000000 +0000
@@ -26,7 +26,7 @@
 * authorization.                                       *
 ****************************************************************************/
/*
- * $Id: dup_field.c,v 1.9 2024/06/29 17:45:32 tom Exp $
+ * $Id: dup_field.c,v 1.11 2024/10/06 20:07:19 tom Exp $
 *
 * Demonstrate dup_field().
 */
@@ -146,27 +146,27 @@
}

static FieldAttrs *
-my_field_attrs(FIELD *f)
+my_field_attrs(NCURSES_CONST FIELD *f)
{
   return (FieldAttrs *) field_userptr(f);
}

static int
-buffer_length(FIELD *f)
+buffer_length(NCURSES_CONST FIELD *f)
{
   return my_field_attrs(f)->row_lengths[0];
}

static void
-set_buffer_length(FIELD *f, int length)
+set_buffer_length(NCURSES_CONST FIELD *f, int length)
{
   my_field_attrs(f)->row_lengths[0] = length;
}

static int
-offset_in_field(FORM *form)
+offset_in_field(NCURSES_CONST
 FORM *form)
{
-    FIELD *field = current_field(form);
+    NCURSES_CONST FIELD *field = current_field(form);
   int currow, curcol;

   form_getyx(form, currow, curcol);
@@ -245,7 +245,7 @@
```

```
 default:
     modified = (ch < MIN_FORM_COMMAND
-   && isprint(ch));
+   && isprint(UChar(ch)));
     break;
 }

Index: test/filter.c
Prereq:  1.38
--- ncurses-6.5-20240928+/test/filter.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/filter.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2019-2020,2022 Thomas E. Dickey                                  *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                  *
 * Copyright 1998-2016,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
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@@
 -30,7 +30,7 @@
/*
 * Author:  Thomas E. Dickey 1998
 *
- * $Id: filter.c,v 1.38 2022/12/04 00:40:11 tom Exp $
+ * $Id: filter.c,v 1.39 2024/10/05 19:26:24 tom Exp $
 *
 * An example of the 'filter()' function in ncurses, this program prompts
 * for commands and executes them (like a command shell).  It illustrates
@@ -65,7 +65,7 @@
   if (clocked) {
 if (limit >= 3) {
     time_t now = time((time_t *) 0);
-     struct tm *my = localtime(&now);
+     const struct tm *my = localtime(&now);
     char buffer[80];
     int skip, y, x;
     int margin;
Index: test/form_driver_w.c
Prereq:  1.17
--- ncurses-6.5-20240928+/test/form_driver_w.c 2022-12-10 23:31:31.000000000 +0000
+++ ncurses-6.5-20241006/test/form_driver_w.c 2024-10-06 23:13:40.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2020,2022 Thomas E. Dickey                                       *
+ * Copyright 2020-2022,2024 Thomas E. Dickey
                                                                              *
 * Copyright 2013-2014,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
```

```
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -32,7 +32,7 @@
 ****************************************************************************/

/*
- * $Id: form_driver_w.c,v 1.17 2022/12/10 23:31:31 tom Exp $
+ * $Id: form_driver_w.c,v 1.18 2024/10/06 23:13:40 tom Exp $
 *
 * Test form_driver_w (int, int, wchar_t), a wide char aware
 * replacement of form_driver.
@@ -68,7 +68,7 @@
int
main(int argc, char *argv[])
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
    {
 "Commands:",
 "  ^D,^Q,ESC           - quit program",
Index: test/gdc.c
Prereq:  1.60
--- ncurses-6.5-20240928+/test/gdc.c 2024-06-29 19:59:06.000000000 +0000
+++ ncurses-6.5-20241006/test/gdc.c 2024-10-06 20:08:59.000000000 +0000
@@ -34,7 +34,7 @@
 * modified 10-18-89
 for curses (jrl)
 * 10-18-89 added signal handling
 *
- * $Id: gdc.c,v 1.60 2024/06/29 19:59:06 tom Exp $
+ * $Id: gdc.c,v 1.62 2024/10/06 20:08:59 tom Exp $
 */

#include <test.priv.h>
@@ -181,7 +181,7 @@
    int check;
    time_t result;
    char c = 0;
-    struct tm *tm;
+    NCURSES_CONST struct tm *tm;

    switch (sscanf(value, "%d:%d:%d%c", &hh, &mm, &ss, &c)) {
    default:
@@ -243,7 +243,7 @@
main(int argc, char *argv[])
{
    time_t now;
-    struct tm *tm;
+    NCURSES_CONST struct tm *tm;
```

```
   long t, a;
   int i, j, s, k, ch;
   int count = 0;
@@ -293,7 +293,7 @@

   InitAndCatch({
 if (redirected) {
-     char *name = getenv("TERM");
+     NCURSES_CONST char *name = getenv("TERM");
     if (name == 0
  || newterm(name, ofp, ifp) == 0) {
  fprintf(stderr, "cannot open terminal\n");
@@ -431,7 +431,7 @@
     _nc_STRNCPY(buf, ctime(&now), (size_t) 30);
     {
  char *d2 = buf + 10;
-  char *s2 = buf + 19;
+  NCURSES_CONST char *s2 = buf + 19;
   while ((*d2++ = *s2++) != '\0') ;
     }
     MvAddStr(16, 30, buf);
Index: test/inch_wide.c
Prereq:  1.13
--- ncurses-6.5-20240928+/test/inch_wide.c 2022-12-10 23:55:34.000000000 +0000
+++ ncurses-6.5-20241006/test/inch_wide.c 2024-10-06 23:14:31.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2020,2022 Thomas E. Dickey                                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                *
 * Copyright 2007-2010,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: inch_wide.c,v 1.13 2022/12/10 23:55:34 tom Exp $
+
 * $Id: inch_wide.c,v 1.14 2024/10/06 23:14:31 tom Exp $
 */
/*
       int in_wch(cchar_t *wcval);
@@ -61,7 +61,7 @@
static int
test_inchs(int level, char **argv, WINDOW *chrwin, WINDOW *strwin)
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
```

```
    {
 "Test input from screen using inch(), etc., in a moveable viewport.",
 "",
Index: test/inchs.c
Prereq:  1.19
--- ncurses-6.5-20240928+/test/inchs.c 2022-12-11 00:01:39.000000000 +0000
+++ ncurses-6.5-20241006/test/inchs.c 2024-10-06 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2019-2020,2022 Thomas E. Dickey                                  *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                  *
 * Copyright 2007-2012,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of
 charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                             *
 ******************************************************************************/
/*
- * $Id: inchs.c,v 1.19 2022/12/11 00:01:39 tom Exp $
+ * $Id: inchs.c,v 1.20 2024/10/06 21:17:54 tom Exp $
 *
 * Author: Thomas E Dickey
 */
@@ -71,7 +71,7 @@
static int
test_inchs(int level, char **argv, WINDOW *chrwin, WINDOW *strwin)
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
    {
 "Test input from screen using inch(), etc., in a moveable viewport.",
 "",
Index: test/ins_wide.c
Prereq:  1.30
--- ncurses-6.5-20240928+/test/ins_wide.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/ins_wide.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2020,2022 Thomas E. Dickey                                       *
+ * Copyright
 2020-2022,2024 Thomas E. Dickey                                            *
 * Copyright 2002-2016,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                             *
 ******************************************************************************/
```

```
/*
- * $Id: ins_wide.c,v 1.30 2022/12/10 22:28:50 tom Exp $
+ * $Id: ins_wide.c,v 1.31 2024/10/05 19:26:24 tom Exp $
 *
 * Demonstrate the wins_wstr() and wins_wch functions.
 * Thomas Dickey - 2002/11/23
@@ -73,7 +73,7 @@
static int n_opt = -1;

static void
-legend(WINDOW *win, int level, Options state, wchar_t *buffer, int length)
+legend(WINDOW *win, int level, Options state, const wchar_t *buffer, int length)
{
   const char *showstate;

Index: test/insdelln.c
Prereq:  1.15
--- ncurses-6.5-20240928+/test/insdelln.c 2022-12-10
 23:31:31.000000000 +0000
+++ ncurses-6.5-20241006/test/insdelln.c 2024-10-06 21:08:52.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2019-2020,2022 Thomas E. Dickey                                  *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                  *
 * Copyright 2008-2014,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                             *
 ******************************************************************************/
/*
- * $Id: insdelln.c,v 1.15 2022/12/10 23:31:31 tom Exp $
+ * $Id: insdelln.c,v 1.17 2024/10/06 21:08:52 tom Exp $
 *
 * test-driver for deleteln, wdeleteln, insdelln, winsdelln, insertln, winsertln
  */
@@ -160,7 +160,7 @@
}

static void
-do_subwindow(WINDOW *win, STATUS * sp, void func(WINDOW *))
+do_subwindow(WINDOW *win, const STATUS * sp, void func(WINDOW *))
{
   WINDOW *win1 = newwin(sp->y_max - 2, sp->x_max - 2,
    sp->y_beg + 1, sp->x_beg + 1);
@@ -204,7 +204,7 @@
static void
show_help(WINDOW *win)
```

```
{
-    static const char *table[] =
+    static NCURSES_CONST char *table[] =
    {
 "Basic commands:"
 ,"Use h/j/k/l or arrow keys to move the cursor."
Index: test/inserts.c
Prereq:  1.34
--- ncurses-6.5-20240928+/test/inserts.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/inserts.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2020,2022 Thomas E. Dickey                                       *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                  *
 * Copyright 2002-2016,2017 Free Software Foundation, Inc.
      *
 *                                                                            *
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@@ -27,7 +27,7 @@
 * authorization.                                                             *
 ******************************************************************************/
/*
- * $Id: inserts.c,v 1.34 2022/12/10 22:28:50 tom Exp $
+ * $Id: inserts.c,v 1.35 2024/10/05 19:26:24 tom Exp $
 *
 * Demonstrate the winsstr() and winsch functions.
 * Thomas Dickey - 2002/10/19
@@ -98,7 +98,7 @@
}

static int
-ColOf(char *buffer, int length, int margin)
+ColOf(const char *buffer, int length, int margin)
{
    int n;
    int result;
Index: test/knight.c
Prereq:  1.52
--- ncurses-6.5-20240928+/test/knight.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/knight.c 2024-10-05 19:38:58.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright
 2018-2021,2022 Thomas E. Dickey                                            *
+ * Copyright 2018-2022,2024 Thomas E. Dickey                                  *
 * Copyright 1998-2013,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
```

```
@@ -34,7 +34,7 @@
 * Eric S. Raymond <esr@snark.thyrsus.com> July 22 1995.  Mouse support
 * added September 20th 1995.
 *
- * $Id: knight.c,v 1.52 2022/12/04 00:40:11 tom Exp $
+ * $Id: knight.c,v 1.53 2024/10/05 19:38:58 tom Exp $
 */

#include <test.priv.h>
@@ -450,7 +450,8 @@
}

static bool
-evaluate_move(SQUARES squares, HISTORY * doneData, int doneSize, int row, int column)
+evaluate_move(SQUARES squares, const HISTORY * doneData, int doneSize,
+       int row, int column)
{
    if (doneSize <= 1)
 return (TRUE);
Index: test/list_keys.c
Prereq:  1.33
--- ncurses-6.5-20240928+/test/list_keys.c 2023-11-11
 00:35:05.000000000 +0000
+++ ncurses-6.5-20241006/test/list_keys.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2018-2022,2023 Thomas E. Dickey                                  *
+ * Copyright 2018-2023,2024 Thomas E. Dickey                                  *
 * Copyright 2016,2017 Free Software Foundation, Inc.                         *
 *                                                                            *
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@@ -27,7 +27,7 @@
 * authorization.                                                             *
 ******************************************************************************/
/*
- * $Id: list_keys.c,v 1.33 2023/11/11 00:35:05 tom Exp $
+ * $Id: list_keys.c,v 1.34 2024/10/05 19:26:24 tom Exp $
 *
 * Author: Thomas E Dickey
 *
@@ -297,7 +297,7 @@
#if NCURSES_XNAMES
    if (x_opt) {
  for (k = 0; k < count; ++k) {
-     TERMTYPE *term;
+     const TERMTYPE *term;
     set_curterm(terms[k]);
     term = (TERMTYPE *) cur_term;
```

```
     total += (size_t) (NUM_STRINGS(term) - STRCOUNT);
@@ -348,7 +348,7 @@
 widths1 = (int) strlen(modifier);

    for (k = 0; k < count; ++k) {
- char *value;
+ const char *value;
 set_curterm(terms[k]);
 if ((value = termname()) == NULL)
     failed("termname");
Index: test/move_field.c
Prereq:  1.16
--- ncurses-6.5-20240928+/test/move_field.c 2024-06-29 17:45:02.000000000 +0000
+++ ncurses-6.5-20241006/test/move_field.c 2024-10-06 21:12:35.000000000 +0000
@@ -26,7 +26,7 @@
 * authorization.                                       *
 ****************************************************************************/
/*
- * $Id: move_field.c,v 1.16 2024/06/29 17:45:02 tom Exp $
+ * $Id: move_field.c,v 1.19 2024/10/06 21:12:35 tom Exp $
 *
 * Demonstrate move_field().
 */
@@ -146,27 +146,27 @@
}

static FieldAttrs
 *
-my_field_attrs(FIELD *f)
+my_field_attrs(NCURSES_CONST FIELD *f)
{
    return (FieldAttrs *) field_userptr(f);
}

static int
-buffer_length(FIELD *f)
+buffer_length(NCURSES_CONST FIELD *f)
{
    return my_field_attrs(f)->row_lengths[0];
}

static void
-set_buffer_length(FIELD *f, int length)
+set_buffer_length(NCURSES_CONST FIELD *f, int length)
{
    my_field_attrs(f)->row_lengths[0] = length;
}
```

```
static int
-offset_in_field(FORM *form)
+offset_in_field(NCURSES_CONST FORM *form)
{
-    FIELD *field = current_field(form);
+    NCURSES_CONST FIELD *field = current_field(form);
    int currow, curcol;

    form_getyx(form, currow, curcol);
@@ -245,7 +245,7 @@

 default:
     modified = (ch < MIN_FORM_COMMAND
-   && isprint(ch));
+   && isprint(UChar(ch)));
     break;
 }

@@ -275,9 +275,9 @@

/* display a status message to show what's happening */
static void
-show_status(FORM *form, FIELD *field)
+show_status(NCURSES_CONST FORM *form, NCURSES_CONST FIELD
 *field)
{
-    WINDOW *sub = form_sub(form);
+    NCURSES_CONST WINDOW *sub = form_sub(form);
    int currow, curcol;

    getyx(stdscr, currow, curcol);
Index: test/movewindow.c
Prereq:  1.54
--- ncurses-6.5-20240928+/test/movewindow.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/movewindow.c 2024-10-06 18:44:26.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018-2022,2023 Thomas E. Dickey                                *
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 *                                                                          *
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@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
 /*
- * $Id: movewindow.c,v 1.54 2023/05/27 20:13:10 tom Exp $
+ * $Id: movewindow.c,v 1.56 2024/10/06 18:44:26 tom Exp $
```

```
 *
 * Demonstrate move functions for windows and derived windows from the curses
 * library.
@@ -135,7 +135,7 @@
 */
static PAIR *
selectcell(WINDOW *parent,
-    WINDOW *child,
+    NCURSES_CONST WINDOW *child,
    int uli, int ulj,
    int lri, int lrj,
    bool relative,
@@ -252,7 +252,7 @@
    int max_col = (parent == stdscr) ? COL_MAX : getmaxx(parent);
    int min_line = (parent == stdscr) ? LINE_MIN : 0;
    int max_line = (parent == stdscr) ? LINE_MAX : getmaxy(parent);
-    PAIR *tmp;
+    NCURSES_CONST PAIR *tmp;
    bool result = FALSE;

    head_line("Use arrows to move cursor, anything else to mark corner 1");
@@ -346,7 +346,7 @@
}

static WINDOW *
-parent_of(WINDOW *win)
+parent_of(NCURSES_CONST WINDOW *win)
{
    WINDOW *result = 0;
    int n = window2num(win);
@@ -435,7 +435,7 @@
 int max_col = top ? COL_MAX
 : getmaxx(parent);
 int min_line = top ? LINE_MIN : 0;
 int max_line = top ? LINE_MAX : getmaxy(parent);
- PAIR *tmp;
+ NCURSES_CONST PAIR *tmp;
 bool more;

 head_line("Select new position for %swindow", top ? "" : "sub");
@@ -474,7 +474,7 @@
}

static void
-show_derwin(WINDOW *win)
+show_derwin(NCURSES_CONST WINDOW *win)
{
    int pary, parx, maxy, maxx;
```

```
@@ -500,7 +500,7 @@
 int max_col = top ? COL_MAX : getmaxx(parent);
 int min_line = top ? LINE_MIN : 0;
 int max_line = top ? LINE_MAX : getmaxy(parent);
- PAIR *tmp;
+ NCURSES_CONST PAIR *tmp;
 bool more;

 show_derwin(win);
Index: test/ncurses.c
Prereq:  1.538
--- ncurses-6.5-20240928+/test/ncurses.c 2023-11-11 01:23:59.000000000 +0000
+++ ncurses-6.5-20241006/test/ncurses.c 2024-10-06 20:18:59.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2018-2022,2023 Thomas E. Dickey                                  *
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 Thomas E. Dickey                                  *
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 *                                                                            *
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@@ -41,7 +41,7 @@
   Author: Eric S. Raymond <esr@snark.thyrsus.com> 1993
           Thomas E. Dickey (beginning revision 1.27 in 1996).

-$Id: ncurses.c,v 1.538 2023/11/11 01:23:59 tom Exp $
+$Id: ncurses.c,v 1.541 2024/10/06 20:18:59 tom Exp $

******************************************************************************/

@@ -273,7 +273,7 @@
     ++x;
     break;
 default:
-     if (!isprint(ch) || ch >= KEY_MIN) {
+     if (!isprint(UChar(ch)) || ch >= KEY_MIN) {
  beep();
     } else if ((int) strlen(buffer) < limit) {
  int j;
@@ -928,7 +928,7 @@
  /* at least Solaris SVR4 curses breaks unctrl(128), etc. */
  c2 &= 0x7f;
#endif
-  if (isprint(c))
+  if (isprint(UChar(c)))
      (void)
```

```
 wprintw(win, "%c", UChar(c));
  else if (c2 != UChar(c))
      (void) wprintw(win, "M-%s", unctrl(c2));
@@ -1693,7 +1693,7 @@
     chtype extras = (chtype) ac;

     if (UseColors) {
-  NCURSES_PAIRS_T pair = 0;
+  NCURSES_PAIRS_T pair;
  if ((fg != COLOR_BLACK) || (bg != COLOR_BLACK)) {
      pair = 1;
      if (init_pair(pair, fg, bg) == ERR) {
@@ -2345,7 +2345,6 @@
 for (i = (NCURSES_PAIRS_T) (base_row * per_row); i < pairs_max; i++) {
     int row = grid_top + (i / per_row) - base_row;
     int col = (i % per_row + 1) * width;
-     NCURSES_PAIRS_T pair = i;

     if ((i / per_row) > row_limit)
  break;
@@ -2355,6 +2354,7 @@
     if (row >= 0 && move(row, col) != ERR) {
  NCURSES_COLOR_T fg = (NCURSES_COLOR_T) InxToFG(i);
  NCURSES_COLOR_T bg = (NCURSES_COLOR_T) InxToBG(i);
+  NCURSES_PAIRS_T pair = i;

  init_pair(pair, fg, bg);
  attron(COLOR_PAIR(pair));
@@ -2517,7 +2517,7 @@
static int
x_color_test(bool recur GCC_UNUSED)
{
-    long i;
+    int i;

 int top = 0, width;
    int base_row = 0;
    int grid_top = top + 3;
@@ -2613,17 +2613,17 @@
 /* show color names/numbers across the top */
 for (i = 0; i < per_row; i++) {
     show_color_name(top + 2,
-       ((int) i + 1) * width,
-       (int) i * zoom_size + MinColors,
+       (i + 1) * width,
+       i * zoom_size + MinColors,
       opt_wide,
       opt_zoom);
```

```
 }

 /* show a grid of colors, with color names/ numbers on the left */
 for (i = (base_row * per_row); i < pairs_max; i++) {
-     int row = grid_top + ((int) i / per_row) - base_row;
-     int col = ((int) i % per_row + 1) * width;
-     int pair = (int) i;
+     int row = grid_top + (i / per_row) - base_row;
+     int col = (i % per_row + 1) * width;
+     int pair = i;

     if ((i / per_row) > row_limit)
  break;
@@ -2828,7 +2828,7 @@
#define DecodeRGB(n) (NCURSES_COLOR_T) ((n * 1000) / 0xffff)

static void
-init_all_colors(bool xterm_colors, char *palette_file)
+init_all_colors(bool xterm_colors, NCURSES_CONST
 char *palette_file)
{
    NCURSES_PAIRS_T cp;
    all_colors = typeMalloc(RGB_DATA, (unsigned) MaxColors);
@@ -3317,7 +3317,7 @@
{
    int c, fmt = 1;
    char buf[9];
-    char *s;
+    NCURSES_CONST char *s;
    attr_t attr = A_NORMAL;
    unsigned at_code = 0;
#if HAVE_SLK_COLOR
@@ -3938,8 +3938,7 @@

    *dst = *src;
    do {
- int count;
- TEST_CCHAR(src, count, {
+ TEST_CCHAR(src, {
     attr |= (test_attrs & A_ALTCHARSET);
     setcchar(dst, test_wch, attr, pair, NULL);
 }, {
@@ -4810,7 +4809,8 @@
/* Ask user for a window definition */
{
    WINDOW *rwindow;
-    pair ul, lr, *tmp;
+    pair ul, lr;
```

```
+    NCURSES_CONST pair *tmp;

    move(0, 0);
    clrtoeol();
@@ -5014,7 +5014,8 @@
#if HAVE_WRESIZE
 case CTRL('X'): /* resize window */
     if (current) {
-  pair *tmp, ul, lr;
+  NCURSES_CONST pair *tmp;
+  pair ul, lr;
  int mx, my;

  move(0, 0);
@@ -5249,7 +5250,7 @@
}

static void
-fill_panel(PANEL *pan)
+fill_panel(NCURSES_CONST PANEL
 *pan)
{
    WINDOW *win = panel_window(pan);
    const char *userptr = (const char *) panel_userptr(pan);
@@ -5286,7 +5287,7 @@
}

static void
-fill_wide_panel(PANEL *pan)
+fill_wide_panel(NCURSES_CONST PANEL *pan)
{
    WINDOW *win = panel_window(pan);
    const char *userptr = (const char *) panel_userptr(pan);
@@ -5336,7 +5337,7 @@
}

static int
-demo_panels(void (*InitPanel) (WINDOW *), void (*FillPanel) (PANEL *))
+demo_panels(void (*InitPanel) (WINDOW *), void (*FillPanel) (NCURSES_CONST PANEL *))
{
    int count;
    int itmp;
@@ -6246,7 +6247,8 @@
run_trace_menu(MENU * m)
{
    ITEM **items;
-    ITEM *i, **p;
+    NCURSES_CONST ITEM *i;
```

```
+    ITEM **p;

    for (;;) {
 bool changed = FALSE;
@@ -6424,7 +6426,7 @@

    if (field_info(me, &rows, &cols, &frow, &fcol, &nrow, &nbuf) == E_OK
 && nbuf > 0) {
- char *source = field_buffer(me, 1);
+ NCURSES_CONST char *source = field_buffer(me, 1);
 size_t have = (source ? strlen(source) : 0) + 1;
 size_t need
 = 80 + have;
 char *temp = malloc(need);
@@ -6434,7 +6436,7 @@
     _nc_STRNCPY(temp, source ? source : "", have + 1);
     len = (size_t) (char *) field_userptr(me);
     if (c <= KEY_MAX) {
-  if (isgraph(c) && (len + 1) < sizeof(temp)) {
+  if (isgraph(UChar(c)) && (len + 1) < sizeof(temp)) {
      temp[len++] = (char) c;
      temp[len] = 0;
      set_field_buffer(me, 1, temp);
@@ -6484,7 +6486,7 @@
}

static int
-form_virtualize(FORM *f, WINDOW *w)
+form_virtualize(NCURSES_CONST FORM *f, WINDOW *w)
{
    /* *INDENT-OFF* */
    static const struct {
@@ -6658,7 +6660,7 @@
static
FIELDCHECK_CB(pw_field_check)
{
-    char *s = field_buffer(fld, 0);
+    NCURSES_CONST char *s = field_buffer(fld, 0);
    int n;

    for (n = 0; s[n] != '\0'; ++n) {
@@ -6680,7 +6682,8 @@
form_test(bool recur GCC_UNUSED)
{
    FORM *form;
-    FIELD *f[12], *secure;
+    FIELD *f[12];
+    NCURSES_CONST FIELD *secure;
```

```
   FIELDTYPE *fty_middle = new_fieldtype(mi_field_check, mi_char_check);
    FIELDTYPE *fty_passwd = new_fieldtype(pw_field_check, pw_char_check);
   int c;
@@ -7176,7 +7179,7 @@
}

static void
-overlap_test_4(int flavor, WINDOW *a, WINDOW *b)
+overlap_test_4(int flavor, NCURSES_CONST WINDOW *a, WINDOW *b)
{
   switch ((otCOPY) flavor) {
   case otCOPY_overwrite:
@@ -7899,7 +7902,7 @@
   bool monochrome = FALSE;
#if HAVE_COLOR_CONTENT
   bool xterm_colors = FALSE;
-   char *palette_file = 0;
+   NCURSES_CONST char *palette_file = 0;
#endif

   setlocale(LC_ALL, "");
Index: test/padview.c
Prereq:  1.22
--- ncurses-6.5-20240928+/test/padview.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/padview.c 2024-10-06 21:08:25.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2021,2022 Thomas E. Dickey                                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                *
 * Copyright 2017 Free
 Software Foundation, Inc.                                                  *
 *                                                                          *
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@@ -29,7 +29,7 @@
/*
 * clone of view.c, using pads
 *
- * $Id: padview.c,v 1.22 2022/12/04 00:40:11 tom Exp $
+ * $Id: padview.c,v 1.24 2024/10/06 21:08:25 tom Exp $
 */

#include <test.priv.h>
@@ -182,7 +182,7 @@

#if USE_WIDEC_SUPPORT
   if (!memcmp("\357\273\277", my_blob, 3)) {
- char *s = my_blob + 3;
+ const char *s = my_blob + 3;
```

```
 char *d = my_blob;
 Trace(("trim BOM"));
 do {
@@ -213,7 +213,7 @@
    for (k = 0; my_vec[k]; ++k) {
 char *s;
#if USE_WIDEC_SUPPORT
- char *last = my_vec[k] + (int) strlen(my_vec[k]);
+ const char *last = my_vec[k] + (int) strlen(my_vec[k]);
 wchar_t wch[2];
 size_t rc;
#ifndef state_unused
@@ -279,7 +279,7 @@
int
main(int argc, char *argv[])
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =

    {
 "Commands:",
 "  q,^Q,ESC       - quit this program",
@@ -532,7 +532,7 @@
     beep();
     break;
 }
- if (c >= KEY_MIN || (c > 0 && !isdigit(c))) {
+ if (c >= KEY_MIN || (c > 0 && !isdigit(UChar(c)))) {
     got_number = FALSE;
     value = 0;
 }
Index: test/parse_rgb.h
Prereq:  1.5
--- ncurses-6.5-20240928+/test/parse_rgb.h 2020-02-02 23:34:34.000000000 +0000
+++ ncurses-6.5-20241006/test/parse_rgb.h 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2018,2020 Thomas E. Dickey                                       *
+ * Copyright 2018-2020,2024 Thomas E. Dickey                                  *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
 * copy of this software and associated documentation files (the            *
@@ -26,7 +26,7 @@
 * authorization.                                                             *
 ******************************************************************************/
/*
- * $Id: parse_rgb.h,v 1.5 2020/02/02 23:34:34 tom Exp $
```

```
+ * $Id: parse_rgb.h,v 1.6 2024/10/05 19:26:24 tom Exp $
 *
 * Sample implementation of ncurses RGB extension from user_caps(5).
 */
@@ -49,7 +49,7 @@
 int bits;
 int pwr2;
 int r = 0, g = 0, b = 0;
- char *data;
+ const char *data;
 char ch;

 for (max_bits = 0, pwr2 = 1;
Index: test/picsmap.c
Prereq:  1.149
--- ncurses-6.5-20240928+/test/picsmap.c 2023-04-23 23:20:37.000000000 +0000
+++ ncurses-6.5-20241006/test/picsmap.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2018-2022,2023 Thomas E. Dickey                                  *
+ * Copyright 2018-2023,2024 Thomas E. Dickey                                  *
 * Copyright 2017,2018 Free Software Foundation, Inc.                         *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                             *
 ******************************************************************************/
/*
- * $Id: picsmap.c,v 1.149 2023/04/23 23:20:37 tom Exp $
+ * $Id: picsmap.c,v 1.150 2024/10/05 19:26:24 tom Exp $
 *
 * Author: Thomas E. Dickey
 *
@@ -574,7 +574,7 @@
    _nc_STRCAT(full_name, filename, need);
    if (tries & 4) {
  char *t = s;
-  char *tc;
+  const char *tc;
  int num;
  char chr;
  int found = 0;
@@ -1374,8 +1374,8 @@
  int r, g, b, nocolor;
  float rf, gf, bf;
  unsigned check;
-  char *t;
```

```
-  char *s = t = strchr(buffer, '#');
+  char *s = strchr(buffer, '#');
+  const char *t = s;
  bool matched = FALSE;

  if (s != 0) {
@@ -1492,7 +1492,7 @@
#define fg_color(pics,n) (pics->fgcol[n].fgcol)

static void
-dump_picture(PICS_HEAD
 * pics)
+dump_picture(const PICS_HEAD * pics)
{
    int y, x;

@@ -1767,7 +1767,7 @@
#if USE_EXTENDED_COLORS
 case 'x':
     {
-  char *s = optarg;
+  const char *s = optarg;
  while (*s) {
      switch (*s++) {
      case 'p':
Index: test/popup_msg.c
Prereq:  1.12
--- ncurses-6.5-20240928+/test/popup_msg.c 2024-06-29 18:34:58.000000000 +0000
+++ ncurses-6.5-20241006/test/popup_msg.c 2024-10-06 21:07:01.000000000 +0000
@@ -27,7 +27,7 @@
 * authorization.                                             *
 ****************************************************************************/
/*
- * $Id: popup_msg.c,v 1.12 2024/06/29 18:34:58 tom Exp $
+ * $Id: popup_msg.c,v 1.13 2024/10/06 21:07:01 tom Exp $
 *
 * Show a multi-line message in a window which may extend beyond the screen.
 *
@@ -62,7 +62,7 @@
 * Display a temporary window, e.g., to display a help-message.
 */
void
-popup_msg(WINDOW *parent, const char *const *msg)
+popup_msg(WINDOW *parent, NCURSES_CONST
 char *const *msg)
{
    int x0 = 4;
    int y0 = 2;
```

```
@@ -171,12 +171,12 @@
void
popup_msg2(WINDOW *parent, char **msg)
{
-    popup_msg(parent, (const char *const *) msg);
+    popup_msg(parent, (NCURSES_CONST char *const *) msg);
}

#else
void
-popup_msg(WINDOW *parent, const char *const *msg)
+popup_msg(WINDOW *parent, NCURSES_CONST char *const *msg)
{
   (void) parent;
   (void) msg;
Index: test/popup_msg.h
Prereq:  1.5
--- ncurses-6.5-20240928+/test/popup_msg.h 2020-02-02 23:34:34.000000000 +0000
+++ ncurses-6.5-20241006/test/popup_msg.h 2024-10-06 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2018,2020 Thomas E. Dickey                                       *
+ * Copyright 2018-2020,2024 Thomas E. Dickey                                  *
 * Copyright 2017 Free Software Foundation, Inc.                              *
 *                                                                            *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a    *
@@ -27,7 +27,7 @@
 * authorization.                                                             *
 ******************************************************************************/
/*
- * $Id: popup_msg.h,v 1.5 2020/02/02 23:34:34 tom Exp $
+ * $Id: popup_msg.h,v 1.6 2024/10/06 21:17:54 tom Exp $
 *
 * Utility functions for a popup-message or help-screen.
 */
@@ -37,7 +37,7 @@

#include <test.priv.h>

-extern void popup_msg(WINDOW *parent, const char *const *msg);
+extern void popup_msg(WINDOW *parent, NCURSES_CONST char *const *msg);
extern void popup_msg2(WINDOW *parent, char **msg);

#endif /* POPUP_MSG_H_incl */
Index: test/railroad.c
Prereq:  1.26
--- ncurses-6.5-20240928+/test/railroad.c 2022-12-11 00:12:13.000000000 +0000
```

```
+++ ncurses-6.5-20241006/test/railroad.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
-
 * Copyright 2019-2020,2022 Thomas E. Dickey                                  *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                  *
 * Copyright 2000-2013,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey - 2000
 *
- * $Id: railroad.c,v 1.26 2022/12/11 00:12:13 tom Exp $
+ * $Id: railroad.c,v 1.27 2024/10/05 19:26:24 tom Exp $
 *
 * A simple demo of the termcap interface.
 */
@@ -113,7 +113,7 @@
static void
ShowSign(char *string)
{
-    char *base = string;
+    const char *base = string;
    int first, last;

    if (moveit != 0) {
Index: test/rain.c
Prereq:  1.58
--- ncurses-6.5-20240928+/test/rain.c 2024-08-31 15:56:10.000000000 +0000
+++ ncurses-6.5-20241006/test/rain.c 2024-10-06 21:09:00.000000000 +0000
@@ -27,7 +27,7
 @@
 * authorization.                                                             *
 ******************************************************************************/
/*
- * $Id: rain.c,v 1.58 2024/08/31 15:56:10 tom Exp $
+ * $Id: rain.c,v 1.62 2024/10/06 21:09:00 tom Exp $
 */
#include <test.priv.h>
#include <popup_msg.h>
@@ -45,7 +45,7 @@

struct DATA;

-typedef void (*DrawPart) (struct DATA *);
+typedef void (*DrawPart) (const struct DATA *);
```

```
typedef struct DATA {
   int y, x;
@@ -118,25 +118,25 @@
}

static void
-part1(DATA * drop)
+part1(const DATA * drop)
{
   MvAddCh(drop->y, drop->x, '.');
}

static void
-part2(DATA * drop)
+part2(const DATA * drop)
{
   MvAddCh(drop->y, drop->x, 'o');
}

static void
-part3(DATA * drop)
+part3(const DATA * drop)
{
   MvAddCh(drop->y, drop->x, 'O');
}

static void
-part4(DATA * drop)
+part4(const DATA * drop)
{
   MvAddCh(drop->y - 1, drop->x, '-');
   MvAddStr(drop->y, drop->x - 1, "|.|");
@@ -144,7 +144,7 @@
 }

static void
-part5(DATA * drop)
+part5(const DATA * drop)
{
   MvAddCh(drop->y - 2, drop->x, '-');
   MvAddStr(drop->y - 1, drop->x - 1, "/ \\");
@@ -154,7 +154,7 @@
}

static void
-part6(DATA * drop)
+part6(const DATA * drop)
{
```

```
    MvAddCh(drop->y - 2, drop->x, ' ');
    MvAddStr(drop->y - 1, drop->x - 1, "   ");
@@ -186,7 +186,7 @@
}

static void
-draw_part(void (*func) (DATA *), int state, DATA * data)
+draw_part(void (*func) (const DATA *), int state, DATA * data)
{
    data->func = func;
    data->state = state;
@@ -328,7 +328,7 @@
int
main(int argc, char *argv[])
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
    {
 "Commands:",
 " q/Q        exit the program",
Index: test/redraw.c
Prereq:  1.17
--- ncurses-6.5-20240928+/test/redraw.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/redraw.c 2024-10-06 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
-
 * Copyright 2020-2021,2022 Thomas E. Dickey                                  *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                  *
 * Copyright 2006-2012,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
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@@ -27,7 +27,7 @@
 * authorization.                                                             *
 ******************************************************************************/
/*
- * $Id: redraw.c,v 1.17 2022/12/10 22:28:50 tom Exp $
+ * $Id: redraw.c,v 1.18 2024/10/06 21:17:54 tom Exp $
 *
 * Demonstrate the redrawwin() and wredrawln() functions.
 * Thomas Dickey - 2006/11/4
@@ -61,7 +61,7 @@
static void
test_redraw(WINDOW *win)
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
    {
```

```
 "Commands:",
 "  ^Q/ESC/q   - quit",
Index: test/savescreen.c
Prereq:
  1.62
--- ncurses-6.5-20240928+/test/savescreen.c 2022-12-10 23:23:27.000000000 +0000
+++ ncurses-6.5-20241006/test/savescreen.c 2024-10-06 21:10:09.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2018-2021,2022 Thomas E. Dickey                                  *
+ * Copyright 2018-2022,2024 Thomas E. Dickey                                  *
 * Copyright 2006-2017,2018 Free Software Foundation, Inc.                    *
 *                                                                            *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                             *
 ******************************************************************************/
/*
- * $Id: savescreen.c,v 1.62 2022/12/10 23:23:27 tom Exp $
+ * $Id: savescreen.c,v 1.65 2024/10/06 21:10:09 tom Exp $
 *
 * Demonstrate save/restore functions
 from the curses library.
 * Thomas Dickey - 2007/7/14
@@ -96,7 +96,7 @@
}

static int
-load_screen(char *filename)
+load_screen(NCURSES_CONST char *filename)
{
   int result;

@@ -170,7 +170,7 @@
#if USE_WIDEC_SUPPORT
   cchar_t mycc;
#endif
-   char *filename = files[which];
+   NCURSES_CONST char *filename = files[which];
   bool dumped = FALSE;

   if (filename != 0) {
@@ -216,7 +216,7 @@
static void
editor_help(void)
{
-   static const char *msgs[] =
+   static NCURSES_CONST char *msgs[] =
```

```
    {
 "You are now in the screen-editor, which allows you to make some",
 "lines on the screen, as well as save copies of the screen to a",
@@ -238,7 +238,7 @@
static void
replay_help(void)
{
-    static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
    {
 "You are now in the screen-loader, which allows you to view",
 "the dumped/restored screens.",
@@ -286,7 +286,7 @@
    bool replaying = FALSE;
    bool done = FALSE;
    char **files;
-
    char *fill_by = 0;
+    NCURSES_CONST char *fill_by = 0;
#if USE_WIDEC_SUPPORT
    cchar_t mycc;
    static const wchar_t mywc[2] =
Index: test/tclock.c
Prereq:  1.48
--- ncurses-6.5-20240928+/test/tclock.c 2023-02-25 16:42:22.000000000 +0000
+++ ncurses-6.5-20241006/test/tclock.c 2024-10-05 18:47:56.000000000 +0000
@@ -1,4 +1,4 @@
-/* $Id: tclock.c,v 1.48 2023/02/25 16:42:22 tom Exp $ */
+/* $Id: tclock.c,v 1.49 2024/10/05 18:47:56 tom Exp $ */

#define NEED_TIME_H
#include <test.priv.h>
@@ -145,7 +145,7 @@
    int lastbeep = -1;
    bool odd = FALSE;
    time_t tim;
-    struct tm *t;
+    const struct tm *t;
    char szChar[20];
    char *text;
    short my_bg = COLOR_BLACK;
Index: test/test.priv.h
Prereq:  1.219
--- ncurses-6.5-20240928+/test/test.priv.h 2024-08-31 10:46:01.000000000 +0000
+++ ncurses-6.5-20241006/test/test.priv.h 2024-10-05 19:01:00.000000000 +0000
@@ -30,7 +30,7 @@
/******************************************************************************
```

```
  *  Author: Thomas E. Dickey                    1996-on                    *
 ******************************************************************************/
-/* $Id: test.priv.h,v 1.219 2024/08/31 10:46:01 Rafael.Kitover Exp $ */
+/* $Id: test.priv.h,v 1.220 2024/10/05 19:01:00 tom Exp $ */

#ifndef __TEST_PRIV_H
#define __TEST_PRIV_H 1
@@ -765,8 +765,8 @@

#define VERSION_COMMON() \
static char *version_common(char **argv) { \
- char *base = argv[0]; \
- char *part = strrchr(base, '/'); \
+ const char *base = argv[0]; \
+ const char *part = strrchr(base, '/'); \
 size_t need = strlen(base) + 80; \
 char *result = malloc(need); \
 if (result != NULL) { \
@@ -916,8 +916,8 @@
 * Workaround in case getcchar() returns a positive value when the source
 * string produces only a L'\0'.
 */
-#define TEST_CCHAR(s, count, then_stmt, else_stmt) \
- if ((count = getcchar(s, NULL, NULL, NULL, NULL)) > 0) { \
+#define TEST_CCHAR(s, then_stmt, else_stmt) \
+ if (getcchar(s, NULL, NULL,
 NULL, NULL) > 0) { \
     wchar_t test_wch[CCHARW_MAX + 2]; \
     attr_t test_attrs; \
     NCURSES_PAIRS_T test_pair; \
Index: test/test_add_wchstr.c
Prereq:  1.34
--- ncurses-6.5-20240928+/test/test_add_wchstr.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/test_add_wchstr.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2020-2021,2022 Thomas E. Dickey                                  *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                  *
 * Copyright 2009-2016,2017 Free Software Foundation, Inc.                    *
 *                                                                            *
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@@ -27,7 +27,7 @@
 * authorization.                                                             *
 ******************************************************************************/
 /*
- * $Id: test_add_wchstr.c,v 1.34 2022/12/10 22:28:50 tom Exp $
+ * $Id: test_add_wchstr.c,v 1.35 2024/10/05 19:26:24 tom Exp $
 *
```

```
 * Demonstrate the waddwchstr() and wadd_wch functions.
 * Thomas Dickey - 2009/9/12
@@ -158,7 +158,7 @@
}

static void
-legend(WINDOW *win, int level, Options state, wchar_t *buffer, int length)
+legend(WINDOW *win, int level, Options state, const wchar_t *buffer, int length)
{
   const char *showstate;

Index: test/test_addchstr.c
Prereq:  1.29
--- ncurses-6.5-20240928+/test/test_addchstr.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/test_addchstr.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2020,2022 Thomas E. Dickey                                     *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                *
 * Copyright 2009-2016,2017 Free Software Foundation, Inc.                  *
  *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ******************************************************************************/
/*
- * $Id: test_addchstr.c,v 1.29 2022/12/10 22:28:50 tom Exp $
+ * $Id: test_addchstr.c,v 1.30 2024/10/05 19:26:24 tom Exp $
 *
 * Demonstrate the waddchstr() and waddch functions.
 * Thomas Dickey - 2009/9/12
@@ -169,7 +169,7 @@
}

static int
-ColOf(char *buffer, int length, int margin)
+ColOf(const char *buffer, int length, int margin)
{
   int n;
   int result;
Index: test/test_addstr.c
Prereq:  1.20
--- ncurses-6.5-20240928+/test/test_addstr.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/test_addstr.c 2024-10-05 19:27:33.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
-
```

```
 * Copyright 2020,2022 Thomas E. Dickey                                 *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                            *
 * Copyright 2009-2016,2017 Free Software Foundation, Inc.                *
 *                                                                        *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                         *
 ****************************************************************************/
/*
- * $Id: test_addstr.c,v 1.20 2022/12/10 22:28:50 tom Exp $
+ * $Id: test_addstr.c,v 1.21 2024/10/05 19:27:33 tom Exp $
 *
 * Demonstrate the waddstr() and waddch functions.
 * Thomas Dickey - 2009/9/12
@@ -91,7 +91,7 @@
}

static int
-ColOf(char *buffer, int length, int margin)
+ColOf(const char *buffer, int length, int margin)
{
   int n;
   int result;
Index: test/test_addwstr.c
Prereq:  1.22
---
 ncurses-6.5-20240928+/test/test_addwstr.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/test_addwstr.c 2024-10-05 19:27:33.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2020-2022,2023 Thomas E. Dickey                            *
+ * Copyright 2020-2023,2024 Thomas E. Dickey                            *
 * Copyright 2009-2016,2017 Free Software Foundation, Inc.                *
 *                                                                        *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                         *
 ****************************************************************************/
/*
- * $Id: test_addwstr.c,v 1.22 2023/05/27 20:13:10 tom Exp $
+ * $Id: test_addwstr.c,v 1.23 2024/10/05 19:27:33 tom Exp $
 *
 * Demonstrate the waddwstr() and wadd_wch
 functions.
 * Thomas Dickey - 2009/9/12
@@ -82,7 +82,7 @@
static int n_opt = -1;
```

```
static void
-legend(WINDOW *win, int level, Options state, wchar_t *buffer, int length)
+legend(WINDOW *win, int level, Options state, const wchar_t *buffer, int length)
{
   const char *showstate;

Index: test/test_endwin.c
Prereq:  1.2
--- ncurses-6.5-20240928+/test/test_endwin.c 2023-11-10 15:17:19.000000000 +0000
+++ ncurses-6.5-20241006/test/test_endwin.c 2024-10-05 19:27:33.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2023 Thomas E. Dickey                                          *
+ * Copyright 2023,2024 Thomas E. Dickey                                     *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
 * copy of this software and associated documentation files (the            *
@@ -26,7 +26,7 @@
  * authorization.                                                           *
 ******************************************************************************/
/*
- * $Id: test_endwin.c,v 1.2 2023/11/10 15:17:19 tom Exp $
+ * $Id: test_endwin.c,v 1.3 2024/10/05 19:27:33 tom Exp $
 */
#include <test.priv.h>

@@ -67,7 +67,7 @@
   int rc_e1 = OK;
   int rc_e2 = OK;
   int rc_e3 = OK;
-   SCREEN *sp = NULL;
+   const SCREEN *sp = NULL;
   bool opt_e = FALSE;
   bool opt_i = FALSE;
   bool opt_n = FALSE;
Index: test/test_get_wstr.c
Prereq:  1.14
--- ncurses-6.5-20240928+/test/test_get_wstr.c 2022-12-10 23:59:13.000000000 +0000
+++ ncurses-6.5-20241006/test/test_get_wstr.c 2024-10-06 23:15:10.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
- * Copyright 2020,2022 Thomas E. Dickey                                     *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                *
 * Copyright 2007-2011,2017
 Free Software Foundation, Inc.                                             *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
```

```
 * authorization.                                          *
 ****************************************************************************/
/*
- * $Id: test_get_wstr.c,v 1.14 2022/12/10 23:59:13 tom Exp $
+ * $Id: test_get_wstr.c,v 1.16 2024/10/06 23:15:10 tom Exp $
 *
 * Author: Thomas E Dickey
 *
@@ -69,7 +69,7 @@
}

static int
-Remainder(WINDOW *txtwin)
+Remainder(const WINDOW *txtwin)
{
   int result = getmaxx(txtwin) - getcurx(txtwin);
   return (result > 0) ? result : 0;
@@ -138,7 +138,7 @@
static int
recursive_test(int level, char **argv, WINDOW *strwin)
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
    {
 "Commands:",
 "  q,^Q,ESC       - quit this program",
Index: test/test_getstr.c
Prereq:
  1.16
--- ncurses-6.5-20240928+/test/test_getstr.c 2022-12-10 23:58:37.000000000 +0000
+++ ncurses-6.5-20241006/test/test_getstr.c 2024-10-06 22:36:46.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2020,2022 Thomas E. Dickey                                     *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                *
 * Copyright 2007-2012,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                          *
 ****************************************************************************/
/*
- * $Id: test_getstr.c,v 1.16 2022/12/10 23:58:37 tom Exp $
+ * $Id: test_getstr.c,v 1.19 2024/10/06 22:36:46 tom Exp $
 *
 * Author: Thomas E Dickey
  *
@@ -76,7 +76,7 @@
```

```
}

static int
-Remainder(WINDOW *txtwin)
+Remainder(NCURSES_CONST WINDOW *txtwin)
{
   int result = getmaxx(txtwin) - getcurx(txtwin);
   return (result > 0) ? result : 0;
@@ -145,7 +145,7 @@
static int
recursive_test(int level, char **argv, WINDOW *strwin)
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
    {
 "Commands:",
 "  q,^Q,ESC       - quit this program",
Index: test/test_instr.c
Prereq:  1.13
--- ncurses-6.5-20240928+/test/test_instr.c 2024-06-29 18:42:53.000000000 +0000
+++ ncurses-6.5-20241006/test/test_instr.c 2024-10-06 21:11:54.000000000 +0000
@@ -27,7 +27,7 @@
 * authorization.                                               *
 ****************************************************************************/
/*
- * $Id: test_instr.c,v 1.13 2024/06/29 18:42:53 tom Exp $
+ * $Id: test_instr.c,v 1.15 2024/10/06 21:11:54 tom Exp $
 *
 * Author: Thomas E Dickey
 *
@@ -56,13 +56,13 @@
}

static
 void
-show_1st(WINDOW *win, int line, char *buffer)
+show_1st(WINDOW *win, int line, NCURSES_CONST char *buffer)
{
   MvWAddStr(win, line, 5, buffer);
}

static void
-showmore(WINDOW *win, int line, char *buffer)
+showmore(WINDOW *win, int line, NCURSES_CONST char *buffer)
{
   wmove(win, line, 0);
   wclrtoeol(win);
@@ -72,7 +72,7 @@
```

```
static void
show_help(WINDOW *win)
{
-    static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
     {
 "Show file contents and a viewport from the variants of winstr."
 ,"Use h/j/k/l or arrow keys to move the viewport."
Index: test/test_inwstr.c
Prereq:  1.9
--- ncurses-6.5-20240928+/test/test_inwstr.c 2024-06-29 18:40:02.000000000 +0000
+++ ncurses-6.5-20241006/test/test_inwstr.c 2024-10-06 23:15:38.000000000 +0000
@@ -27,7 +27,7 @@
 * authorization.                                               *
 ****************************************************************************/
/*
- * $Id: test_inwstr.c,v
 1.9 2024/06/29 18:40:02 tom Exp $
+ * $Id: test_inwstr.c,v 1.11 2024/10/06 23:15:38 tom Exp $
 *
 * Author: Thomas E Dickey
 *
@@ -59,13 +59,13 @@
}

static void
-show_1st(WINDOW *win, int line, wchar_t *buffer)
+show_1st(WINDOW *win, int line, const wchar_t *buffer)
{
    (void) mvwaddwstr(win, line, 5, buffer);
}

static void
-showmore(WINDOW *win, int line, wchar_t *buffer)
+showmore(WINDOW *win, int line, const wchar_t *buffer)
{
    wmove(win, line, 0);
    wclrtoeol(win);
@@ -75,7 +75,7 @@
static void
show_help(WINDOW *win)
{
-    static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
     {
 "Show file contents and a viewport from the variants of winwstr."
 ,"Use h/j/k/l or arrow keys to move the viewport."
Index: test/test_mouse.c
```

```
Prereq:  1.32
--- ncurses-6.5-20240928+/test/test_mouse.c 2024-08-31 10:46:01.000000000 +0000
+++ ncurses-6.5-20241006/test/test_mouse.c 2024-10-05 18:47:56.000000000 +0000
@@ -22,7 +22,7 @@
 * THE USE OR OTHER DEALINGS
 IN THE SOFTWARE.                          *
 ****************************************************************************/
/*
- * $Id: test_mouse.c,v 1.32 2024/08/31 10:46:01 Rafael.Kitover Exp $
+ * $Id: test_mouse.c,v 1.33 2024/10/05 18:47:56 tom Exp $
 *
 * Author: Leonid S Usov
 *
@@ -38,7 +38,7 @@
static void
raw_loop(void)
{
-    char *xtermcap;
+    const char *xtermcap;

    printf("Entering raw mode. Ctrl-c to quit.\n");

Index: test/test_opaque.c
Prereq:  1.15
--- ncurses-6.5-20240928+/test/test_opaque.c 2022-12-11 00:03:10.000000000 +0000
+++ ncurses-6.5-20241006/test/test_opaque.c 2024-10-05 19:27:33.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
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 *                                                                          *
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@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: test_opaque.c,v 1.15 2022/12/11 00:03:10 tom Exp $
+ * $Id: test_opaque.c,v 1.16 2024/10/05 19:27:33 tom Exp $
 *
 * Author: Thomas E Dickey
 *
@@ -157,13 +157,13 @@
}

static int
-status_y(WINDOW *stswin, int cell)
```

```
+status_y(const WINDOW *stswin, int cell)
{
   return (cell % getmaxy(stswin));
}

static int
-status_x(WINDOW *stswin, int cell)
+status_x(const WINDOW *stswin, int cell)
{
   return (15 * (cell / getmaxy(stswin)));
}
Index: test/test_sgr.c
Prereq:  1.22
--- ncurses-6.5-20240928+/test/test_sgr.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/test_sgr.c 2024-10-06 21:05:50.000000000 +0000
@@ -1,5 +1,5 @@
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@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: test_sgr.c,v 1.22 2023/05/27 20:13:10 tom Exp $
+ * $Id: test_sgr.c,v 1.25 2024/10/06 21:05:50 tom Exp $
 *
 * A simple demo of the sgr/sgr0 terminal capabilities.
 */
@@ -142,10 +142,10 @@
#define MASK_REV  (1 << 2)

static void
-dumpit(unsigned bits, unsigned ignore, const char *sgr, const char *sgr0)
+dumpit(unsigned bits, unsigned ignore, NCURSES_CONST char *sgr, NCURSES_CONST char *sgr0)
{
-    static const char sample[] = "abcdefghijklm";
-    static
 char params[] = "SURBDBIPA";
+    static NCURSES_CONST char sample[] = "abcdefghijklm";
+    static NCURSES_CONST char params[] = "SURBDBIPA";
   unsigned n;

   printf("%4u ", bits);
@@ -177,12 +177,11 @@
```

```
static void
brute_force(const char *name)
{
-    unsigned count;
-    char *my_sgr;
-    char *my_sgr0;
-    char *my_bold;
-    char *my_revs;
-    char *my_smso;
+    NCURSES_CONST char *my_sgr;
+    NCURSES_CONST char *my_sgr0;
+    NCURSES_CONST char *my_bold;
+    NCURSES_CONST char *my_revs;
+    NCURSES_CONST char *my_smso;
    char *my_name = strdup(name);

    if (db_list) {
@@ -219,6 +218,7 @@
 unsigned ignore = 0;
 unsigned reason = 0;
 unsigned repeat = 0;
+ unsigned count;
 for (count = 0; count < MAXSGR; ++count) {
     values[count] = tparm(my_sgr,
      BITS2P(1),
@@ -334,7 +334,7 @@
main(int argc, char *argv[])
{
    int ch;
-    char *name;
+    const char *name;

    while ((ch = getopt(argc, argv, OPTS_COMMON "d:e:nq")) != -1) {
 switch (ch)
 {
@@ -369,7 +369,7 @@
    } else if ((name = getenv("TERM")) != 0) {
 brute_force(name);
    } else {
- static char dumb[] = "dumb";
+ static const char dumb[] = "dumb";
 brute_force(dumb);
    }

Index: test/test_tparm.c
Prereq:  1.39
--- ncurses-6.5-20240928+/test/test_tparm.c 2023-11-11 01:00:03.000000000 +0000
+++ ncurses-6.5-20241006/test/test_tparm.c 2024-10-06 20:50:27.000000000 +0000
```

```
@@ -1,5 +1,5 @@
/******************************************************************************
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 * copy of this software and associated documentation files (the              *
@@ -29,7 +29,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: test_tparm.c,v 1.39 2023/11/11 01:00:03
 tom Exp $
+ * $Id: test_tparm.c,v 1.42 2024/10/06 20:50:27 tom Exp $
 *
 * Exercise tparm/tiparm, either for all possible capabilities with fixed
 * parameters, or one capability with specific combinations of parameters.
@@ -107,7 +107,7 @@
}

static int
-isNumeric(char *source)
+isNumeric(NCURSES_CONST char *source)
{
   char *next = 0;
   long value = strtol(source, &next, 0);
@@ -245,7 +245,7 @@
#define NS_9(fmt) NS_8(fmt), NumStr(8)

static void
-test_tparm(const char *name, const char *format, long *number, char **string)
+test_tparm(const char *name, NCURSES_CONST char *format, long *number, char **string)
{
   char *use_strings[MAX_PARM];
   char *result = NULL;
@@ -527,7 +527,7 @@
    }
 } else {
    char *s = t_opt;
-    char *t;
+    NCURSES_CONST char *t;
    while ((t = strtok(s, ",")) != 0) {
  s = 0;
  if (len_terms + 2 >= max_terms) {
@@ -603,7 +603,7 @@
#if NCURSES_XNAMES
    len_caps = std_caps;
    if (cur_term) {
```

```
-  TERMTYPE *term =
 (TERMTYPE *) cur_term;
+  NCURSES_CONST TERMTYPE *term = (TERMTYPE *) cur_term;
  for (n = STRCOUNT; n < NUM_STRINGS(term); ++n) {
      GrowArray(all_caps, max_caps, len_caps);
      GrowArray(cap_name, max_name, len_caps);
Index: test/test_vidputs.c
Prereq:  1.15
--- ncurses-6.5-20240928+/test/test_vidputs.c 2022-12-10 23:23:27.000000000 +0000
+++ ncurses-6.5-20241006/test/test_vidputs.c 2024-10-06 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
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 *                                                                            *
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@@ -27,7 +27,7 @@
 * authorization.                                                             *
 ******************************************************************************/
/*
- * $Id: test_vidputs.c,v 1.15 2022/12/10 23:23:27 tom Exp $
+ * $Id: test_vidputs.c,v 1.16 2024/10/06 21:17:54 tom Exp $
 *
 * Demonstrate the vidputs and vidattr functions.
 * Thomas Dickey - 2013/01/12
@@ -51,7 +51,7 @@
}

static bool
-outs(const char *s)
+outs(NCURSES_CONST char *s)
{
   if (VALID_STRING(s)) {
 tputs(s, 1, outc);
Index: test/testcurs.c
Prereq:  1.58
--- ncurses-6.5-20240928+/test/testcurs.c 2023-05-28 14:23:34.000000000 +0000
+++ ncurses-6.5-20241006/test/testcurs.c 2024-10-05 19:17:19.000000000 +0000
@@ -6,7 +6,7 @@
 *  wrs(5/28/93) -- modified to be consistent (perform identically) with either
 *                  PDCurses or under Unix System V, R4
 *
- * $Id: testcurs.c,v 1.58 2023/05/28 14:23:34 tom Exp $
+ * $Id: testcurs.c,v 1.59 2024/10/05 19:17:19 tom Exp $
 */
```

```
#include <test.priv.h>
@@ -245,7 +245,7 @@
 wclrtobot(win);
 if (c >= KEY_MIN)
      wprintw(win, "Key Pressed: %s", keyname(c));
- else if (isprint(c))
+ else if (isprint(UChar(c)))
     wprintw(win, "Key Pressed: %c", c);
 else
     wprintw(win, "Key Pressed: %s", unctrl(UChar(c)));
@@ -748,8 +748,8 @@
 keypad(stdscr, TRUE);
 raw();
 key = getch();
- if (key < KEY_MIN && key > 0 && isalpha(key)) {
-     if (islower(key))
+ if (key < KEY_MIN && key > 0 && isalpha(UChar(key))) {
+     if (islower(UChar(key)))
  key = toupper(key);
     for (n = 0; n < MAX_OPTIONS; ++n) {
  if (key == command[n].text[0]) {
Index: test/testscanw.c
Prereq:  1.15
--- ncurses-6.5-20240928+/test/testscanw.c 2022-12-11 00:10:29.000000000 +0000
+++ ncurses-6.5-20241006/test/testscanw.c 2024-10-05 19:27:33.000000000 +0000
@@ -1,5 +1,5 @@
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@@ -30,7 +30,7 @@
 * Date:  1997/03/17
 * From:  bayern@morpheus.cis.yale.edu
 *
- * $Id: testscanw.c,v 1.15 2022/12/11 00:10:29 tom Exp $
+ * $Id: testscanw.c,v 1.16 2024/10/05 19:27:33 tom Exp $
 */
#include <test.priv.h>

@@ -85,7 +85,7 @@
    curses_trace(TRACE_UPDATE | TRACE_CALLS);
#endif
    while (optind < argc) {
- char *token = argv[optind++];
+ const char *token = argv[optind++];
```

```
 if (isdigit(UChar(*token)))
     move(atoi(token), 0);
 else if (!strcmp(token, "k+"))
Index: test/view.c
Prereq:  1.145
--- ncurses-6.5-20240928+/test/view.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/view.c 2024-10-06 21:08:05.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
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@@ -52,7 +52,7 @@
 * scroll operation worked, and the refresh() code only had to do a
 * partial repaint.
 *
- * $Id: view.c,v 1.145 2022/12/04 00:40:11 tom Exp $
+ * $Id: view.c,v 1.147 2024/10/06 21:08:05 tom Exp $
 */

#include <test.priv.h>
@@ -93,8 +93,7 @@

#if USE_WIDEC_SUPPORT
    for (;;) {
- int count;
- TEST_CCHAR(src, count, {
+ TEST_CCHAR(src, {
     int len = wcwidth(test_wch[0]);
     result += (len > 0) ? len : 1;
     ++src;
@@ -186,12 +185,10 @@
      */
     {
  int j;
-  int width = 1;
+  int width;

  for (j = actual = 0; j < shift; ++j) {
-      int count;
-
-
    TEST_CCHAR(s + j, count, {
+      TEST_CCHAR(s + j, {
   width = wcwidth(test_wch[0]);
```

```
     }
     , {
@@ -294,7 +291,7 @@

#if USE_WIDEC_SUPPORT
   if (!memcmp("\357\273\277", my_blob, 3)) {
- char *s = my_blob + 3;
+ const char *s = my_blob + 3;
 char *d = my_blob;
 Trace(("trim BOM"));
 do {
@@ -329,7 +326,7 @@
 char *s;
 int y, x;
#if USE_WIDEC_SUPPORT
- char *last = my_vec[k] + (int) strlen(my_vec[k]);
+ const char *last = my_vec[k] + (int) strlen(my_vec[k]);
 wchar_t wch[2];
 size_t rc;
#ifndef state_unused
@@ -408,7 +405,7 @@
int
main(int argc, char *argv[])
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
   {
 "Commands:",
 "  q,^Q,ESC       - quit this program",
@@ -659,7 +656,7 @@
    beep();
    break;
 }
- if (c >= KEY_MIN || (c > 0 && !isdigit(c))) {
+ if (c >= KEY_MIN || (c > 0 && !isdigit(UChar(c)))) {
    got_number = FALSE;
    value = 0;
 }
```

Found in path(s):
* /opt/cola/permits/2303554631_1736345227.5550623/0/ncurses-6-5-20241006-patch-gz/ncurses-6.5-20241006.patch

1.3474 scanelf 1.3.8-r1

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1.3478 spf13-cast 1.7.0

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1.3479 rs-xid 1.6.0

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1.3480 k8s-io-kube-openapi 0.0.0-20241105132330-32ad38e42d3f

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1.3481 github.com/azure/azure-sdk-for-go/sdk/azcore 1.16.0

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```
// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
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package fake

import (
 "context"
 "errors"
 "fmt"
 azfake "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake/server"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
 "net/http"
 "net/url"
 "regexp"
)

// LicensesServer is a fake server for instances of the armhybridcompute.LicensesClient type.
type LicensesServer struct {
 // BeginCreateOrUpdate is the fake for method LicensesClient.BeginCreateOrUpdate
 // HTTP status codes to indicate success:
 http.StatusOK
 BeginCreateOrUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
armhybridcompute.License, options *armhybridcompute.LicensesClientBeginCreateOrUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse], errResp
azfake.ErrorResponder)

 // BeginDelete is the fake for method LicensesClient.BeginDelete
 // HTTP status codes to indicate success: http.StatusOK, http.StatusNoContent
 BeginDelete func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientBeginDeleteOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse], errResp azfake.ErrorResponder)

 // Get is the fake for method LicensesClient.Get
 // HTTP status codes to indicate success: http.StatusOK
 Get func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientGetOptions) (resp
azfake.Responder[armhybridcompute.LicensesClientGetResponse],
 errResp azfake.ErrorResponder)

 // NewListByResourceGroupPager is the fake for method LicensesClient.NewListByResourceGroupPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListByResourceGroupPager func(resourceGroupName string, options
*armhybridcompute.LicensesClientListByResourceGroupOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse])
```

```
 // NewListBySubscriptionPager is the fake for method LicensesClient.NewListBySubscriptionPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListBySubscriptionPager func(options *armhybridcompute.LicensesClientListBySubscriptionOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse])

 // BeginUpdate is the fake for method LicensesClient.BeginUpdate
 // HTTP status codes to indicate success: http.StatusOK
 BeginUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
 armhybridcompute.LicenseUpdate, options *armhybridcompute.LicensesClientBeginUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse], errResp azfake.ErrorResponder)

 // BeginValidateLicense is the fake for method LicensesClient.BeginValidateLicense
 // HTTP status codes to indicate success: http.StatusOK
 BeginValidateLicense func(ctx context.Context, parameters armhybridcompute.License, options
*armhybridcompute.LicensesClientBeginValidateLicenseOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse], errResp
azfake.ErrorResponder)
}

// NewLicensesServerTransport creates a new instance of LicensesServerTransport with the provided
implementation.
// The returned LicensesServerTransport instance is connected to an instance of armhybridcompute.LicensesClient
via the
// azcore.ClientOptions.Transporter field in the client's constructor parameters.
func NewLicensesServerTransport(srv *LicensesServer) *LicensesServerTransport
 {
 return &LicensesServerTransport{
  srv:                    srv,
  beginCreateOrUpdate:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]](),
  beginDelete:            newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]](),
  newListByResourceGroupPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]](),
  newListBySubscriptionPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]](),
  beginUpdate:            newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]](),
  beginValidateLicense:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]](),
 }
}

// LicensesServerTransport connects instances of armhybridcompute.LicensesClient to instances of LicensesServer.
// Don't use this type directly, use NewLicensesServerTransport
 instead.
type LicensesServerTransport struct {
 srv                    *LicensesServer
 beginCreateOrUpdate
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]]
```

```
 beginDelete                 *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]]
 newListByResourceGroupPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]]
 newListBySubscriptionPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]]
 beginUpdate                 *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]]
 beginValidateLicense
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]]
}

// Do implements the policy.Transporter interface for LicensesServerTransport.
func (l *LicensesServerTransport) Do(req *http.Request) (*http.Response, error) {
 rawMethod := req.Context().Value(runtime.CtxAPINameKey{})
 method,
 ok := rawMethod.(string)
 if !ok {
  return nil, nonRetriableError{errors.New("unable to dispatch request, missing value for CtxAPINameKey")}
 }

 var resp *http.Response
 var err error

 switch method {
 case "LicensesClient.BeginCreateOrUpdate":
  resp, err = l.dispatchBeginCreateOrUpdate(req)
 case "LicensesClient.BeginDelete":
  resp, err = l.dispatchBeginDelete(req)
 case "LicensesClient.Get":
  resp, err = l.dispatchGet(req)
 case "LicensesClient.NewListByResourceGroupPager":
  resp, err = l.dispatchNewListByResourceGroupPager(req)
 case "LicensesClient.NewListBySubscriptionPager":
  resp, err = l.dispatchNewListBySubscriptionPager(req)
 case "LicensesClient.BeginUpdate":
  resp, err = l.dispatchBeginUpdate(req)
 case "LicensesClient.BeginValidateLicense":
  resp, err = l.dispatchBeginValidateLicense(req)
 default:
  err = fmt.Errorf("unhandled API %s", method)
 }

 if err != nil {
  return nil, err
 }

 return resp, nil
}
```

```
func (l *LicensesServerTransport) dispatchBeginCreateOrUpdate(req
 *http.Request) (*http.Response, error) {
 if l.srv.BeginCreateOrUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginCreateOrUpdate not implemented")}
 }
 beginCreateOrUpdate := l.beginCreateOrUpdate.get(req)
 if beginCreateOrUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return
 nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginCreateOrUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body,
nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginCreateOrUpdate = &respr
  l.beginCreateOrUpdate.add(req, beginCreateOrUpdate)
 }

 resp, err := server.PollerResponderNext(beginCreateOrUpdate, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginCreateOrUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginCreateOrUpdate) {
```

```
 l.beginCreateOrUpdate.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginDelete(req *http.Request) (*http.Response, error) {
 if l.srv.BeginDelete
 == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginDelete not implemented")}
 }
 beginDelete := l.beginDelete.get(req)
 if beginDelete == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginDelete(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
  if
 respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginDelete = &respr
  l.beginDelete.add(req, beginDelete)
 }

 resp, err := server.PollerResponderNext(beginDelete, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK, http.StatusNoContent}, resp.StatusCode) {
  l.beginDelete.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK,
http.StatusNoContent", resp.StatusCode)}
 }
```

```
 if !server.PollerResponderMore(beginDelete) {
  l.beginDelete.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchGet(req *http.Request) (*http.Response, error) {
 if l.srv.Get == nil {
  return nil, &nonRetriableError{errors.New("fake for method Get not implemented")}
 }
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
 regex
 := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 3 {
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
  return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.Get(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 respContent := server.GetResponseContent(respr)
 if !contains([]int{http.StatusOK}, respContent.HTTPStatus) {
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
respContent.HTTPStatus)}
 }
 resp, err := server.MarshalResponseAsJSON(respContent,
 server.GetResponse(respr).License, req)
 if err != nil {
  return nil, err
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListByResourceGroupPager(req *http.Request) (*http.Response,
error) {
 if l.srv.NewListByResourceGroupPager == nil {
```

```
 return nil, &nonRetriableError{errors.New("fake for method NewListByResourceGroupPager not implemented")}
 }
 newListByResourceGroupPager := l.newListByResourceGroupPager.get(req)
 if newListByResourceGroupPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 2 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if
 err != nil {
   return nil, err
  }
  resp := l.srv.NewListByResourceGroupPager(resourceGroupNameParam, nil)
  newListByResourceGroupPager = &resp
  l.newListByResourceGroupPager.add(req, newListByResourceGroupPager)
  server.PagerResponderInjectNextLinks(newListByResourceGroupPager, req, func(page
*armhybridcompute.LicensesClientListByResourceGroupResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp, err := server.PagerResponderNext(newListByResourceGroupPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListByResourceGroupPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListByResourceGroupPager) {
  l.newListByResourceGroupPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListBySubscriptionPager(req *http.Request)
 (*http.Response, error) {
 if l.srv.NewListBySubscriptionPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListBySubscriptionPager not implemented")}
 }
 newListBySubscriptionPager := l.newListBySubscriptionPager.get(req)
 if newListBySubscriptionPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
```

```
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 1 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resp := l.srv.NewListBySubscriptionPager(nil)
  newListBySubscriptionPager = &resp
  l.newListBySubscriptionPager.add(req, newListBySubscriptionPager)
  server.PagerResponderInjectNextLinks(newListBySubscriptionPager, req, func(page
*armhybridcompute.LicensesClientListBySubscriptionResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp,
 err := server.PagerResponderNext(newListBySubscriptionPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListBySubscriptionPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListBySubscriptionPager) {
  l.newListBySubscriptionPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginUpdate(req *http.Request) (*http.Response, error) {
 if l.srv.BeginUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginUpdate not implemented")}
 }
 beginUpdate := l.beginUpdate.get(req)
 if beginUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex
 := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.LicenseUpdate](req)
  if err != nil {
   return nil, err
```

```
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body, nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginUpdate = &respr
  l.beginUpdate.add(req, beginUpdate)
 }

 resp, err := server.PollerResponderNext(beginUpdate, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK},
 resp.StatusCode) {
  l.beginUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginUpdate) {
  l.beginUpdate.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginValidateLicense(req *http.Request) (*http.Response, error) {
 if l.srv.BeginValidateLicense == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginValidateLicense not implemented")}
 }
 beginValidateLicense := l.beginValidateLicense.get(req)
 if beginValidateLicense == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/validateLicense`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 1 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
```

```
 body,
 err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.BeginValidateLicense(req.Context(), body, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 beginValidateLicense = &respr
 l.beginValidateLicense.add(req, beginValidateLicense)
}

resp, err := server.PollerResponderNext(beginValidateLicense, req)
if err != nil {
 return nil, err
}

if !contains([]int{http.StatusOK}, resp.StatusCode) {
 l.beginValidateLicense.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}
if !server.PollerResponderMore(beginValidateLicense) {
 l.beginValidateLicense.remove(req)
}

return resp, nil
}
```

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```
 IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
   OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
   SOFTWARE
{
 "main": "dist/src/index.js",
 "dependencies": {
   "@azure-tools/typespec-go": "0.3.0"
 },
 "devDependencies": {
   "@azure-tools/typespec-autorest": "0.44.1",
   "@azure-tools/typespec-azure-core": "0.44.0",
   "@azure-tools/typespec-azure-resource-manager": "0.44.0",
   "@azure-tools/typespec-azure-rulesets": "0.44.0",
   "@azure-tools/typespec-client-generator-core": "0.44.3",
   "@typespec/compiler": "0.58.1",
   "@typespec/http": "0.58.0",
   "@typespec/openapi": "0.58.0",
   "@typespec/rest": "0.58.0",
   "@typespec/versioning": "0.58.0"
 }
}
//go:build go1.18
// +build go1.18

// Copyright (c) Microsoft Corporation. All rights reserved.
// Licensed under the MIT License. See License.txt in the project root for license information.
// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package armhybridcompute

import (
 "context"
 "errors"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/arm"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/policy"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "net/http"
 "net/url"
 "strings"
)

// LicensesClient contains the methods for the Licenses group.
// Don't use this type directly, use NewLicensesClient() instead.
type LicensesClient struct {
 internal       *arm.Client
 subscriptionID string
```

```
}

// NewLicensesClient creates a new instance of LicensesClient with the specified values.
//   - subscriptionID - The ID of the target
 subscription.
//   - credential - used to authorize requests. Usually a credential from azidentity.
//   - options - pass nil to accept the default values.
func NewLicensesClient(subscriptionID string, credential azcore.TokenCredential, options *arm.ClientOptions)
(*LicensesClient, error) {
 cl, err := arm.NewClient(moduleName, moduleVersion, credential, options)
 if err != nil {
  return nil, err
 }
 client := &LicensesClient{
  subscriptionID: subscriptionID,
  internal:       cl,
 }
 return client, nil
}

// BeginCreateOrUpdate - The operation to create or update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-10
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - parameters - Parameters supplied to the Create license operation.
//   - options - LicensesClientBeginCreateOrUpdateOptions contains the optional parameters for
 the LicensesClient.BeginCreateOrUpdate
//     method.
func (client *LicensesClient) BeginCreateOrUpdate(ctx context.Context, resourceGroupName string, licenseName
string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions)
(*runtime.Poller[LicensesClientCreateOrUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.createOrUpdate(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
```

```
 }
}

// CreateOrUpdate - The operation to create or update a license.
// If the operation
 fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-10
func (client *LicensesClient) createOrUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginCreateOrUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.createOrUpdateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// createOrUpdateCreateRequest creates the CreateOrUpdate
 request.
func (client *LicensesClient) createOrUpdateCreateRequest(ctx context.Context, resourceGroupName string,
licenseName string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*policy.Request,
error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
```

```
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx,
 http.MethodPut, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-10")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginDelete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-10
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientBeginDeleteOptions contains the optional parameters for the
LicensesClient.BeginDelete method.
func (client *LicensesClient) BeginDelete(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*runtime.Poller[LicensesClientDeleteResponse],
 error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.deleteOperation(ctx, resourceGroupName, licenseName, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// Delete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
```

```
//
// Generated from API version 2024-07-10
func (client *LicensesClient) deleteOperation(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginDelete"
 ctx
 = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.deleteCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK, http.StatusNoContent) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// deleteCreateRequest creates the Delete request.
func (client *LicensesClient) deleteCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientBeginDeleteOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return
 nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodDelete, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
```

```
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-10")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// Get - Retrieves information about the view of a license.
// If the operation fails it returns an *azcore.ResponseError
 type.
//
// Generated from API version 2024-07-10
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientGetOptions contains the optional parameters for the LicensesClient.Get method.
func (client *LicensesClient) Get(ctx context.Context, resourceGroupName string, licenseName string, options
*LicensesClientGetOptions) (LicensesClientGetResponse, error) {
 var err error
 const operationName = "LicensesClient.Get"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.getCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return LicensesClientGetResponse{}, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return LicensesClientGetResponse{}, err
 }
 if !runtime.HasStatusCode(httpResp,
 http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return LicensesClientGetResponse{}, err
 }
 resp, err := client.getHandleResponse(httpResp)
 return resp, err
}

// getCreateRequest creates the Get request.
func (client *LicensesClient) getCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientGetOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
```

```
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return
 nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-10")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// getHandleResponse handles the Get response.
func (client *LicensesClient) getHandleResponse(resp *http.Response) (LicensesClientGetResponse, error) {
 result := LicensesClientGetResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.License); err != nil {
  return LicensesClientGetResponse{}, err
 }
 return result, nil
}

// NewListByResourceGroupPager - The operation to get all licenses of a non-Azure machine
//
// Generated from API version 2024-07-10
//   - resourceGroupName - The name of the
 resource group. The name is case insensitive.
//   - options - LicensesClientListByResourceGroupOptions contains the optional parameters for the
LicensesClient.NewListByResourceGroupPager
//     method.
func (client *LicensesClient) NewListByResourceGroupPager(resourceGroupName string, options
*LicensesClientListByResourceGroupOptions) *runtime.Pager[LicensesClientListByResourceGroupResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListByResourceGroupResponse]{
  More: func(page LicensesClientListByResourceGroupResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListByResourceGroupResponse)
(LicensesClientListByResourceGroupResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListByResourceGroupPager")
   nextLink := ""
```

```
  if page != nil {
   nextLink = *page.NextLink
  }
  resp, err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(),
 nextLink, func(ctx context.Context) (*policy.Request, error) {
   return client.listByResourceGroupCreateRequest(ctx, resourceGroupName, options)
  }, nil)
  if err != nil {
   return LicensesClientListByResourceGroupResponse{}, err
  }
  return client.listByResourceGroupHandleResponse(resp)
 },
 Tracer: client.internal.Tracer(),
})
}

// listByResourceGroupCreateRequest creates the ListByResourceGroup request.
func (client *LicensesClient) listByResourceGroupCreateRequest(ctx context.Context, resourceGroupName string,
options *LicensesClientListByResourceGroupOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es"
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if client.subscriptionID == "" {
  return nil,
 errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-10")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listByResourceGroupHandleResponse handles the ListByResourceGroup response.
func (client *LicensesClient) listByResourceGroupHandleResponse(resp *http.Response)
(LicensesClientListByResourceGroupResponse, error) {
 result := LicensesClientListByResourceGroupResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListByResourceGroupResponse{}, err
```

```
 }
 return result, nil
}

// NewListBySubscriptionPager - The operation to get all licenses
 of a non-Azure machine
//
// Generated from API version 2024-07-10
//   - options - LicensesClientListBySubscriptionOptions contains the optional parameters for the
LicensesClient.NewListBySubscriptionPager
//     method.
func (client *LicensesClient) NewListBySubscriptionPager(options *LicensesClientListBySubscriptionOptions)
*runtime.Pager[LicensesClientListBySubscriptionResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListBySubscriptionResponse]{
  More: func(page LicensesClientListBySubscriptionResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListBySubscriptionResponse)
(LicensesClientListBySubscriptionResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListBySubscriptionPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp, err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(),
 nextLink, func(ctx context.Context) (*policy.Request, error) {
    return client.listBySubscriptionCreateRequest(ctx, options)
   }, nil)
   if err != nil {
    return LicensesClientListBySubscriptionResponse{}, err
   }
   return client.listBySubscriptionHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listBySubscriptionCreateRequest creates the ListBySubscription request.
func (client *LicensesClient) listBySubscriptionCreateRequest(ctx context.Context, options
*LicensesClientListBySubscriptionOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/licenses"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil,
```

```
 err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-10")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listBySubscriptionHandleResponse handles the ListBySubscription response.
func (client *LicensesClient) listBySubscriptionHandleResponse(resp *http.Response)
(LicensesClientListBySubscriptionResponse, error) {
 result := LicensesClientListBySubscriptionResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListBySubscriptionResponse{}, err
 }
 return result, nil
}

// BeginUpdate - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-10
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - parameters - Parameters supplied to the Update license operation.
//
   - options - LicensesClientBeginUpdateOptions contains the optional parameters for the
LicensesClient.BeginUpdate method.
func (client *LicensesClient) BeginUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions)
(*runtime.Poller[LicensesClientUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.update(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
```

```
}

// Update - The operation to update a license.
//
 If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-10
func (client *LicensesClient) update(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.updateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// updateCreateRequest creates the Update request.
func (client
 *LicensesClient) updateCreateRequest(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
```

```
 req, err := runtime.NewRequest(ctx, http.MethodPatch, runtime.JoinPaths(client.internal.Endpoint(),
 urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-10")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-10
//   - parameters - Parameters supplied to the license validation operation.
//   - options - LicensesClientBeginValidateLicenseOptions contains the optional parameters for the
LicensesClient.BeginValidateLicense
//     method.
func (client *LicensesClient) BeginValidateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions) (*runtime.Poller[LicensesClientValidateLicenseResponse], error) {
 if options == nil || options.ResumeToken
 == "" {
  resp, err := client.validateLicense(ctx, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientValidateLicenseResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientValidateLicenseResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// ValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-10
```

```
func (client *LicensesClient) validateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginValidateLicense"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{},
 operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.validateLicenseCreateRequest(ctx, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// validateLicenseCreateRequest creates the ValidateLicense request.
func (client *LicensesClient) validateLicenseCreateRequest(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/validateLicense"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}",
 url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodPost, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-10")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}
```

azwebpubsub

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//go:build go1.18
// +build go1.18

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package armhybridcompute_test

import (
 "context"
 "log"

 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/azidentity"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
)

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/f41d0c9332078cb2ef07b749081d94915255ada5/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/stable/2024-07-10/examples/license/License_ValidateLicense.json
func ExampleLicensesClient_BeginValidateLicense() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed
 to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginValidateLicense(ctx, armhybridcompute.License{
  Location: to.Ptr("eastus2euap"),
  Properties: &armhybridcompute.LicenseProperties{
   LicenseDetails: &armhybridcompute.LicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
```

```
  },
  LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 },
}, nil)
if err != nil {
 log.Fatalf("failed to finish the request: %v", err)
}
res, err := poller.PollUntilDone(ctx, nil)
if err != nil {
 log.Fatalf("failed
to pull the result: %v", err)
}
// You could use response here. We use blank identifier for just demo purposes.
_ = res
// If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
// res.License = armhybridcompute.License{
//  Name: to.Ptr("{licenseName}"),
//  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
//  ID: to.Ptr("/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/Licenses/{licenseName}"),
//  Location: to.Ptr("eastus2euap"),
//  Properties: &armhybridcompute.LicenseProperties{
//   LicenseDetails: &armhybridcompute.LicenseDetails{
//    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
//    AssignedLicenses: to.Ptr[int32](2),
//    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//    ImmutableID: to.Ptr("<generated Guid>"),
//    Processors: to.Ptr[int32](6),
//
   State: to.Ptr(armhybridcompute.LicenseStateActivated),
//    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//   },
//   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
//   TenantID: to.Ptr("{tenandId}"),
//  },
// }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/f41d0c9332078cb2ef07b749081d94915255ada5/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/stable/2024-07-10/examples/license/License_CreateOrUpdate.json
func ExampleLicensesClient_BeginCreateOrUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
```

```
if err != nil {
 log.Fatalf("failed to create client: %v", err)
}
poller, err := clientFactory.NewLicensesClient().BeginCreateOrUpdate(ctx, "myResourceGroup", "{licenseName}",
armhybridcompute.License{
 Location: to.Ptr("eastus2euap"),
 Properties: &armhybridcompute.LicenseProperties{
  LicenseDetails: &armhybridcompute.LicenseDetails{
   Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
   Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
   Processors: to.Ptr[int32](6),
   State:      to.Ptr(armhybridcompute.LicenseStateActivated),
   Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
  },
  LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 },
}, nil)
if err != nil {
 log.Fatalf("failed to finish the request: %v", err)
}
res, err := poller.PollUntilDone(ctx, nil)
if err != nil {
 log.Fatalf("failed to pull the result: %v", err)
}
// You could use response here. We use blank identifier for just demo purposes.
_ = res
// If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are
 fake values for just demo purposes.
// res.License = armhybridcompute.License{
//  Name: to.Ptr("{licenseName}"),
//  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
//  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
//  Location: to.Ptr("eastus2euap"),
//  Properties: &armhybridcompute.LicenseProperties{
//   LicenseDetails: &armhybridcompute.LicenseDetails{
//    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
//    AssignedLicenses: to.Ptr[int32](2),
//    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//    ImmutableID: to.Ptr("<generated Guid>"),
//    Processors: to.Ptr[int32](6),
//    State: to.Ptr(armhybridcompute.LicenseStateActivated),
//    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//   },
//   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
//   TenantID: to.Ptr("{tenandId}"),
```

```
 //  },
 // }
}

// Generated from example definition:
 https://github.com/Azure/azure-rest-api-
specs/blob/f41d0c9332078cb2ef07b749081d94915255ada5/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/stable/2024-07-10/examples/license/License_Update.json
func ExampleLicensesClient_BeginUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginUpdate(ctx, "myResourceGroup", "{licenseName}",
armhybridcompute.LicenseUpdate{
  Properties: &armhybridcompute.LicenseUpdateProperties{
   LicenseDetails: &armhybridcompute.LicenseUpdatePropertiesLicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors:
 to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/lice
```

```
nses/{licenseName}"),
 //
  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

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specs/blob/f41d0c9332078cb2ef07b749081d94915255ada5/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/stable/2024-07-10/examples/license/License_Get.json
func ExampleLicensesClient_Get() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if
 err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 res, err := clientFactory.NewLicensesClient().Get(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //
```

```
 Location: to.Ptr("eastus2euap"),
// Properties: &armhybridcompute.LicenseProperties{
//   LicenseDetails: &armhybridcompute.LicenseDetails{
//    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
//    AssignedLicenses: to.Ptr[int32](8),
//    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//    ImmutableID: to.Ptr("<generated Guid>"),
//    Processors: to.Ptr[int32](6),
//    State: to.Ptr(armhybridcompute.LicenseStateActivated),
//    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//   },
//   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
//   TenantID: to.Ptr("{tenandId}"),
//  },
// }
}

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specs/blob/f41d0c9332078cb2ef07b749081d94915255ada5/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/stable/2024-07-10/examples/license/License_Delete.json
func ExampleLicensesClient_BeginDelete() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if
 err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginDelete(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 _, err = poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/f41d0c9332078cb2ef07b749081d94915255ada5/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/stable/2024-07-10/examples/license/License_ListByResourceGroup.json
func ExampleLicensesClient_NewListByResourceGroupPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed
```

```
 to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListByResourceGroupPager("myResourceGroup", nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
   // You could use page here. We use blank identifier for just demo purposes.
   _ = v
  }
  // If the HTTP response code is 200 as defined in example definition, your page structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
  // page.LicensesListResult = armhybridcompute.LicensesListResult{
  //  Value: []*armhybridcompute.License{
  //   {
  //    Name: to.Ptr("{licenseName}"),
  //    Type: to.Ptr("Microsoft.HybridCompute/licenses"),
  //
    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
  //    Location: to.Ptr("eastus2euap"),
  //    Properties: &armhybridcompute.LicenseProperties{
  //     LicenseDetails: &armhybridcompute.LicenseDetails{
  //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
  //      AssignedLicenses: to.Ptr[int32](8),
  //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
  //      ImmutableID: to.Ptr("<generated Guid>"),
  //      Processors: to.Ptr[int32](6),
  //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
  //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
  //     },
  //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  //     TenantID: to.Ptr("{tenandId}"),
  //    },
  //  }},
  // }
 }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
```

```
specs/blob/f41d0c9332078cb2ef07b749081d94915255ada5/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/stable/2024-07-10/examples/license/License_ListBySubscription.json
func
 ExampleLicensesClient_NewListBySubscriptionPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListBySubscriptionPager(nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
   // You could use page here. We use blank identifier for just demo purposes.
   _ = v
  }
  // If the HTTP response code is 200 as defined in example definition, your page structure would look as follows.
Please pay attention that all the values in the output
 are fake values for just demo purposes.
  // page.LicensesListResult = armhybridcompute.LicensesListResult{
  //  Value: []*armhybridcompute.License{
  //   {
  //    Name: to.Ptr("{licenseName}"),
  //    Type: to.Ptr("Microsoft.HybridCompute/licenses"),
  //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
  //    Location: to.Ptr("eastus2euap"),
  //    Properties: &armhybridcompute.LicenseProperties{
  //     LicenseDetails: &armhybridcompute.LicenseDetails{
  //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
  //      AssignedLicenses: to.Ptr[int32](8),
  //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
  //      ImmutableID: to.Ptr("<generated Guid>"),
  //      Processors: to.Ptr[int32](6),
  //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
  //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
  //     },
  //     LicenseType:
 to.Ptr(armhybridcompute.LicenseTypeESU),
  //     TenantID: to.Ptr("{tenandId}"),
```

```
  //    },
  //  }},
  // }
 }
}
```

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1.3482 github.com/azure/azure-sdk-for-go/sdk/azidentity 1.8.0

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```
{
 "main": "dist/src/index.js",
 "dependencies": {
```

"@azure-tools/typespec-go": "0.3.0"
},
"devDependencies": {
"@azure-tools/typespec-autorest": "0.44.1",
"@azure-tools/typespec-azure-core": "0.44.0",
"@azure-tools/typespec-azure-resource-manager": "0.44.0",
"@azure-tools/typespec-azure-rulesets": "0.44.0",
"@azure-tools/typespec-client-generator-core": "0.44.3",
"@typespec/compiler": "0.58.1",
"@typespec/http": "0.58.0",
"@typespec/openapi": "0.58.0",
"@typespec/rest": "0.58.0",
"@typespec/versioning": "0.58.0"
}
}
azwebpubsub

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```
//go:build go1.18
// +build go1.18

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// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package fake

import (
 "context"
```

```
 "errors"
 "fmt"
 azfake "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake/server"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
 "net/http"
 "net/url"
 "regexp"
)

// LicensesServer is a fake server for instances of the armhybridcompute.LicensesClient type.
type LicensesServer struct {
 // BeginCreateOrUpdate is the fake for method LicensesClient.BeginCreateOrUpdate
 // HTTP status codes to indicate success:
 http.StatusOK
 BeginCreateOrUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
armhybridcompute.License, options *armhybridcompute.LicensesClientBeginCreateOrUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse], errResp
azfake.ErrorResponder)

 // BeginDelete is the fake for method LicensesClient.BeginDelete
 // HTTP status codes to indicate success: http.StatusOK, http.StatusNoContent
 BeginDelete func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientBeginDeleteOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse], errResp azfake.ErrorResponder)

 // Get is the fake for method LicensesClient.Get
 // HTTP status codes to indicate success: http.StatusOK
 Get func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientGetOptions) (resp
azfake.Responder[armhybridcompute.LicensesClientGetResponse],
 errResp azfake.ErrorResponder)

 // NewListByResourceGroupPager is the fake for method LicensesClient.NewListByResourceGroupPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListByResourceGroupPager func(resourceGroupName string, options
*armhybridcompute.LicensesClientListByResourceGroupOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse])

 // NewListBySubscriptionPager is the fake for method LicensesClient.NewListBySubscriptionPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListBySubscriptionPager func(options *armhybridcompute.LicensesClientListBySubscriptionOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse])

 // BeginUpdate is the fake for method LicensesClient.BeginUpdate
 // HTTP status codes to indicate success: http.StatusOK
```

```
 BeginUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
 armhybridcompute.LicenseUpdate, options *armhybridcompute.LicensesClientBeginUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse], errResp azfake.ErrorResponder)
}

// NewLicensesServerTransport creates a new instance of LicensesServerTransport with the provided
implementation.
// The returned LicensesServerTransport instance is connected to an instance of armhybridcompute.LicensesClient
via the
// azcore.ClientOptions.Transporter field in the client's constructor parameters.
func NewLicensesServerTransport(srv *LicensesServer) *LicensesServerTransport {
 return &LicensesServerTransport{
  srv:                      srv,
  beginCreateOrUpdate:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]](),
  beginDelete:                newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]](),
  newListByResourceGroupPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]](),
  newListBySubscriptionPager:
  newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]](),
  beginUpdate:                newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]](),
 }
}

// LicensesServerTransport connects instances of armhybridcompute.LicensesClient to instances of LicensesServer.
// Don't use this type directly, use NewLicensesServerTransport instead.
type LicensesServerTransport struct {
 srv                      *LicensesServer
 beginCreateOrUpdate
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]]
 beginDelete                *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]]
 newListByResourceGroupPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]]
 newListBySubscriptionPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]]
 beginUpdate
                *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]]
}

// Do implements the policy.Transporter interface for LicensesServerTransport.
func (l *LicensesServerTransport) Do(req *http.Request) (*http.Response, error) {
 rawMethod := req.Context().Value(runtime.CtxAPINameKey{})
 method, ok := rawMethod.(string)
 if !ok {
  return nil, nonRetriableError{errors.New("unable to dispatch request, missing value for CtxAPINameKey")}
 }

 var resp *http.Response
```

```
 var err error

 switch method {
 case "LicensesClient.BeginCreateOrUpdate":
  resp, err = l.dispatchBeginCreateOrUpdate(req)
 case "LicensesClient.BeginDelete":
  resp, err = l.dispatchBeginDelete(req)
 case "LicensesClient.Get":
  resp, err = l.dispatchGet(req)
 case "LicensesClient.NewListByResourceGroupPager":
  resp, err = l.dispatchNewListByResourceGroupPager(req)
 case "LicensesClient.NewListBySubscriptionPager":
  resp, err = l.dispatchNewListBySubscriptionPager(req)
 case
 "LicensesClient.BeginUpdate":
  resp, err = l.dispatchBeginUpdate(req)
 default:
  err = fmt.Errorf("unhandled API %s", method)
 }

 if err != nil {
  return nil, err
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginCreateOrUpdate(req *http.Request) (*http.Response, error) {
 if l.srv.BeginCreateOrUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginCreateOrUpdate not implemented")}
 }
 beginCreateOrUpdate := l.beginCreateOrUpdate.get(req)
 if beginCreateOrUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body,
 err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
```

```
  return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.BeginCreateOrUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body,
nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 beginCreateOrUpdate = &respr
 l.beginCreateOrUpdate.add(req, beginCreateOrUpdate)
}

resp, err := server.PollerResponderNext(beginCreateOrUpdate, req)
if err != nil {
 return nil, err
}

if !contains([]int{http.StatusOK}, resp.StatusCode) {
 l.beginCreateOrUpdate.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}
if
!server.PollerResponderMore(beginCreateOrUpdate) {
 l.beginCreateOrUpdate.remove(req)
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginDelete(req *http.Request) (*http.Response, error) {
if l.srv.BeginDelete == nil {
 return nil, &nonRetriableError{errors.New("fake for method BeginDelete not implemented")}
}
beginDelete := l.beginDelete.get(req)
if beginDelete == nil {
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
 regex := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 3 {
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
```

```
 if err != nil {
  return
nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.BeginDelete(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 beginDelete = &respr
 l.beginDelete.add(req, beginDelete)
}

resp, err := server.PollerResponderNext(beginDelete, req)
if err != nil {
 return nil, err
}

if !contains([]int{http.StatusOK, http.StatusNoContent}, resp.StatusCode) {
 l.beginDelete.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK,
http.StatusNoContent", resp.StatusCode)}
}
if !server.PollerResponderMore(beginDelete) {
 l.beginDelete.remove(req)
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchGet(req *http.Request) (*http.Response, error) {
 if l.srv.Get == nil {
  return nil, &nonRetriableError{errors.New("fake
 for method Get not implemented")}
 }
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
 regex := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 3 {
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
```

```
 return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.Get(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 respContent := server.GetResponseContent(respr)
 if
 !contains([]int{http.StatusOK}, respContent.HTTPStatus) {
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
respContent.HTTPStatus)}
 }
 resp, err := server.MarshalResponseAsJSON(respContent, server.GetResponse(respr).License, req)
 if err != nil {
  return nil, err
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListByResourceGroupPager(req *http.Request) (*http.Response,
error) {
 if l.srv.NewListByResourceGroupPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListByResourceGroupPager not implemented")}
 }
 newListByResourceGroupPager := l.newListByResourceGroupPager.get(req)
 if newListByResourceGroupPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches :=
 regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 2 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  resp := l.srv.NewListByResourceGroupPager(resourceGroupNameParam, nil)
  newListByResourceGroupPager = &resp
  l.newListByResourceGroupPager.add(req, newListByResourceGroupPager)
  server.PagerResponderInjectNextLinks(newListByResourceGroupPager, req, func(page
*armhybridcompute.LicensesClientListByResourceGroupResponse, createLink func() string) {
```

```
  page.NextLink = to.Ptr(createLink())
 })
 }
 resp, err := server.PagerResponderNext(newListByResourceGroupPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListByResourceGroupPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values
 are http.StatusOK", resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListByResourceGroupPager) {
  l.newListByResourceGroupPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListBySubscriptionPager(req *http.Request) (*http.Response, error)
{
 if l.srv.NewListBySubscriptionPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListBySubscriptionPager not implemented")}
 }
 newListBySubscriptionPager := l.newListBySubscriptionPager.get(req)
 if newListBySubscriptionPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 1 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resp := l.srv.NewListBySubscriptionPager(nil)
  newListBySubscriptionPager = &resp
  l.newListBySubscriptionPager.add(req,
 newListBySubscriptionPager)
  server.PagerResponderInjectNextLinks(newListBySubscriptionPager, req, func(page
*armhybridcompute.LicensesClientListBySubscriptionResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp, err := server.PagerResponderNext(newListBySubscriptionPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListBySubscriptionPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
```

```
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListBySubscriptionPager) {
  l.newListBySubscriptionPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginUpdate(req *http.Request) (*http.Response, error) {
 if l.srv.BeginUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginUpdate not implemented")}
 }
 beginUpdate := l.beginUpdate.get(req)
 if
 beginUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.LicenseUpdate](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body, nil)
  if respErr := server.GetError(errRespr,
 req); respErr != nil {
   return nil, respErr
  }
  beginUpdate = &respr
  l.beginUpdate.add(req, beginUpdate)
 }

 resp, err := server.PollerResponderNext(beginUpdate, req)
 if err != nil {
  return nil, err
 }
```

```
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginUpdate) {
  l.beginUpdate.remove(req)
 }

 return resp, nil
}
//go:build go1.18
// +build go1.18

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// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package armhybridcompute

import (
 "context"
 "errors"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/arm"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/policy"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "net/http"
 "net/url"
 "strings"
)

// LicensesClient contains the methods for the Licenses group.
// Don't use this type directly, use NewLicensesClient() instead.
type LicensesClient struct {
 internal       *arm.Client
 subscriptionID string
}

// NewLicensesClient creates a new instance of LicensesClient with the specified values.
//   - subscriptionID - The ID of the target
 subscription.
//   - credential - used to authorize requests. Usually a credential from azidentity.
//   - options - pass nil to accept the default values.
func NewLicensesClient(subscriptionID string, credential azcore.TokenCredential, options *arm.ClientOptions)
(*LicensesClient, error) {
```

```
 cl, err := arm.NewClient(moduleName, moduleVersion, credential, options)
 if err != nil {
  return nil, err
 }
 client := &LicensesClient{
  subscriptionID: subscriptionID,
  internal:       cl,
 }
 return client, nil
}

// BeginCreateOrUpdate - The operation to create or update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-05-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - parameters - Parameters supplied to the Create license operation.
//   - options - LicensesClientBeginCreateOrUpdateOptions contains the optional parameters
 for the LicensesClient.BeginCreateOrUpdate
//     method.
func (client *LicensesClient) BeginCreateOrUpdate(ctx context.Context, resourceGroupName string, licenseName
string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions)
(*runtime.Poller[LicensesClientCreateOrUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.createOrUpdate(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// CreateOrUpdate - The operation to create or update a license.
// If the
 operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-05-20-preview
func (client *LicensesClient) createOrUpdate(ctx context.Context, resourceGroupName string, licenseName string,
```

```
parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginCreateOrUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.createOrUpdateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// createOrUpdateCreateRequest creates
 the CreateOrUpdate request.
func (client *LicensesClient) createOrUpdateCreateRequest(ctx context.Context, resourceGroupName string,
licenseName string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*policy.Request,
error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx,
 http.MethodPut, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-05-20-preview")
```

```
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginDelete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-05-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientBeginDeleteOptions contains the optional parameters for the
LicensesClient.BeginDelete method.
func (client *LicensesClient) BeginDelete(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*runtime.Poller[LicensesClientDeleteResponse],
 error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.deleteOperation(ctx, resourceGroupName, licenseName, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// Delete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-05-20-preview
func (client *LicensesClient) deleteOperation(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*http.Response, error) {
 var err error
 const
 operationName = "LicensesClient.BeginDelete"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
```

```
 defer func() { endSpan(err) }()
 req, err := client.deleteCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK, http.StatusNoContent) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// deleteCreateRequest creates the Delete request.
func (client *LicensesClient) deleteCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientBeginDeleteOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodDelete, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-05-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// Get - Retrieves information about the view of a license.
//
```

```
 If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-05-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientGetOptions contains the optional parameters for the LicensesClient.Get method.
func (client *LicensesClient) Get(ctx context.Context, resourceGroupName string, licenseName string, options
*LicensesClientGetOptions) (LicensesClientGetResponse, error) {
 var err error
 const operationName = "LicensesClient.Get"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.getCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return LicensesClientGetResponse{}, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil
 {
  return LicensesClientGetResponse{}, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return LicensesClientGetResponse{}, err
 }
 resp, err := client.getHandleResponse(httpResp)
 return resp, err
}

// getCreateRequest creates the Get request.
func (client *LicensesClient) getCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientGetOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
 licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
```

```
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-05-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// getHandleResponse handles the Get response.
func (client *LicensesClient) getHandleResponse(resp *http.Response) (LicensesClientGetResponse, error) {
 result := LicensesClientGetResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.License); err != nil {
  return LicensesClientGetResponse{}, err
 }
 return result, nil
}

// NewListByResourceGroupPager - The operation to get all licenses of a non-Azure machine
//
// Generated from
 API version 2024-05-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - options - LicensesClientListByResourceGroupOptions contains the optional parameters for the
LicensesClient.NewListByResourceGroupPager
//     method.
func (client *LicensesClient) NewListByResourceGroupPager(resourceGroupName string, options
*LicensesClientListByResourceGroupOptions) *runtime.Pager[LicensesClientListByResourceGroupResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListByResourceGroupResponse]{
  More: func(page LicensesClientListByResourceGroupResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListByResourceGroupResponse)
(LicensesClientListByResourceGroupResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListByResourceGroupPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp,
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listByResourceGroupCreateRequest(ctx, resourceGroupName, options)
   }, nil)
   if err != nil {
```

```
    return LicensesClientListByResourceGroupResponse{}, err
   }
   return client.listByResourceGroupHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listByResourceGroupCreateRequest creates the ListByResourceGroup request.
func (client *LicensesClient) listByResourceGroupCreateRequest(ctx context.Context, resourceGroupName string,
options *LicensesClientListByResourceGroupOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es"
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-05-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listByResourceGroupHandleResponse handles the ListByResourceGroup response.
func (client *LicensesClient) listByResourceGroupHandleResponse(resp *http.Response)
(LicensesClientListByResourceGroupResponse, error) {
 result := LicensesClientListByResourceGroupResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListByResourceGroupResponse{}, err
 }
 return
 result, nil
}

// NewListBySubscriptionPager - The operation to get all licenses of a non-Azure machine
//
// Generated from API version 2024-05-20-preview
```

```
//   - options - LicensesClientListBySubscriptionOptions contains the optional parameters for the
LicensesClient.NewListBySubscriptionPager
//     method.
func (client *LicensesClient) NewListBySubscriptionPager(options *LicensesClientListBySubscriptionOptions)
*runtime.Pager[LicensesClientListBySubscriptionResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListBySubscriptionResponse]{
  More: func(page LicensesClientListBySubscriptionResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListBySubscriptionResponse)
(LicensesClientListBySubscriptionResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListBySubscriptionPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp,
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listBySubscriptionCreateRequest(ctx, options)
   }, nil)
   if err != nil {
    return LicensesClientListBySubscriptionResponse{}, err
   }
   return client.listBySubscriptionHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listBySubscriptionCreateRequest creates the ListBySubscription request.
func (client *LicensesClient) listBySubscriptionCreateRequest(ctx context.Context, options
*LicensesClientListBySubscriptionOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/licenses"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet,
 runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-05-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
```

```
}

// listBySubscriptionHandleResponse handles the ListBySubscription response.
func (client *LicensesClient) listBySubscriptionHandleResponse(resp *http.Response)
(LicensesClientListBySubscriptionResponse, error) {
 result := LicensesClientListBySubscriptionResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListBySubscriptionResponse{}, err
 }
 return result, nil
}

// BeginUpdate - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-05-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName
 - The name of the license.
//   - parameters - Parameters supplied to the Update license operation.
//   - options - LicensesClientBeginUpdateOptions contains the optional parameters for the
LicensesClient.BeginUpdate method.
func (client *LicensesClient) BeginUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions)
(*runtime.Poller[LicensesClientUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.update(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientUpdateResponse]{
   Tracer:
 client.internal.Tracer(),
  })
 }
}

// Update - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-05-20-preview
```

```
func (client *LicensesClient) update(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.updateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return
 nil, err
 }
 return httpResp, nil
}

// updateCreateRequest creates the Update request.
func (client *LicensesClient) updateCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}",
 url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodPatch, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-05-20-preview")
```

```
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}
```

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```
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// +build go1.18

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package armhybridcompute_test

import (
 "context"
 "log"

 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/azidentity"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
)

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/b574e2a41acda14a90ef237006e8bbdda2b63c63/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-05-20-preview/examples/license/License_CreateOrUpdate.json
func ExampleLicensesClient_BeginCreateOrUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil
 {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginCreateOrUpdate(ctx, "myResourceGroup", "{licenseName}",
armhybridcompute.License{
  Location: to.Ptr("eastus2euap"),
  Properties: &armhybridcompute.LicenseProperties{
   LicenseDetails: &armhybridcompute.LicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
```

```
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx,
 nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](2),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID:
 to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/b574e2a41acda14a90ef237006e8bbdda2b63c63/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-05-20-preview/examples/license/License_Update.json
func ExampleLicensesClient_BeginUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
```

```
 }
 poller, err := clientFactory.NewLicensesClient().BeginUpdate(ctx,
 "myResourceGroup", "{licenseName}", armhybridcompute.LicenseUpdate{
  Properties: &armhybridcompute.LicenseUpdateProperties{
   LicenseDetails: &armhybridcompute.LicenseUpdatePropertiesLicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please
 pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/lice
nses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //
  },
 // }
```

```
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/b574e2a41acda14a90ef237006e8bbdda2b63c63/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-05-20-preview/examples/license/License_Get.json
func ExampleLicensesClient_Get() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 res, err := clientFactory.NewLicensesClient().Get(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would
 look as follows. Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //
   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
```

specs/blob/b574e2a41acda14a90ef237006e8bbdda2b63c63/specification/hybridcompute/resource-manager/Microsoft.HybridCompute/preview/2024-05-20-preview/examples/license/License_Delete.json

```
func ExampleLicensesClient_BeginDelete() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginDelete(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 _, err = poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
}

// Generated from example
 definition: https://github.com/Azure/azure-rest-api-
specs/blob/b574e2a41acda14a90ef237006e8bbdda2b63c63/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-05-20-
preview/examples/license/License_ListByResourceGroup.json
func ExampleLicensesClient_NewListByResourceGroupPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListByResourceGroupPager("myResourceGroup", nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
   // You could use page here. We use blank identifier for just demo purposes.
   _ = v
  }
  // If the HTTP response
```

code is 200 as defined in example definition, your page structure would look as follows. Please pay attention that all the values in the output are fake values for just demo purposes.

```
 // page.LicensesListResult = armhybridcompute.LicensesListResult{
 //  Value: []*armhybridcompute.License{
 //   {
 //    Name: to.Ptr("{licenseName}"),
 //    Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Licenses/{licenseName}"),
 //    Location: to.Ptr("eastus2euap"),
 //    Properties: &armhybridcompute.LicenseProperties{
 //     LicenseDetails: &armhybridcompute.LicenseDetails{
 //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //      AssignedLicenses: to.Ptr[int32](8),
 //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //      ImmutableID: to.Ptr("<generated Guid>"),
 //      Processors: to.Ptr[int32](6),
 //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //
     Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //     },
 //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //     TenantID: to.Ptr("{tenandId}"),
 //    },
 //  }},
 // }
 }
}

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func ExampleLicensesClient_NewListBySubscriptionPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListBySubscriptionPager(nil)
 for pager.More()
 {
  page, err := pager.NextPage(ctx)
```

```
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
   // You could use page here. We use blank identifier for just demo purposes.
   _ = v
  }
  // If the HTTP response code is 200 as defined in example definition, your page structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
  // page.LicensesListResult = armhybridcompute.LicensesListResult{
  //  Value: []*armhybridcompute.License{
  //   {
  //    Name: to.Ptr("{licenseName}"),
  //    Type: to.Ptr("Microsoft.HybridCompute/licenses"),
  //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
  //    Location: to.Ptr("eastus2euap"),
  //    Properties: &armhybridcompute.LicenseProperties{
  //     LicenseDetails: &armhybridcompute.LicenseDetails{
  //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
  //
     AssignedLicenses: to.Ptr[int32](8),
  //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
  //      ImmutableID: to.Ptr("<generated Guid>"),
  //      Processors: to.Ptr[int32](6),
  //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
  //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
  //     },
  //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  //     TenantID: to.Ptr("{tenandId}"),
  //    },
  //  }},
  // }
 }
}
```

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1.3483 githubcomfsnotifyfsnotify 1.8.0

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1.3484 go.opentelemetry.io/otel/trace 1.32.0

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1.3487 x-time 0.8.0

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1.3488 common 0.60.0

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1.3489 github.com/thoas/go-funk 0.9.3

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1.3490 gonum 0.15.1

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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This software package is based on the paper
I. Bogaert, "Iteration-Free Computation of Gauss-Legendre Quadrature Nodes and Weights",
to be published in the SIAM Journal of Scientific Computing.

The main features of this software are:
- Speed: due to the simple formulas and the O(1) complexity computation of individual Gauss-Legendre quadrature nodes and weights. This makes it compatible with parallel computing paradigms.
- Accuracy: the error on the nodes and weights is within a few ulps (see the paper for details).

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THE POSSIBILITY OF SUCH DAMAGE.
A C-program for MT19937-64 (2004/9/29 version).
Coded by Takuji Nishimura and Makoto Matsumoto.

This is a 64-bit version of Mersenne Twister pseudorandom number
generator.

Before using, initialize the state by using init_genrand64(seed)
or init_by_array64(init_key, key_length).

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1.3497 github.com/go-viper/mapstructure/v2 2.2.1

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1.3500 github.com/moby/spdystream 0.5.0

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1.3505 xz-libs 5.6.3-r0

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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If such an object file uses only numerical parameters, data
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Version 3.1, 31 March 2009

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mach_override	lib/interception/mach_override

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1.3507 libstdc++ 14.2.0-r4

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Version 3.1, 31 March 2009

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Version 3.1, 31 March 2009

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1.3508 google-api-go-client 0.213.0

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1.3509 godo 1.132.0

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Portions of the client are based on code at:
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1.3510 auto-sdk 1.1.0

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```
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package version

// Collection is a type that implements the sort.Interface interface
// so that versions can be sorted.
type Collection []*Version

func (v Collection) Len() int {
 return len(v)
}

func (v Collection) Less(i, j int) bool {
 return v[i].LessThan(v[j])
}
```

```
func (v Collection) Swap(i, j int) {
 v[i], v[j] = v[j], v[i]
}
```

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```
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package version

import (
 "reflect"
 "sort"
 "testing"
)

func TestCollection(t *testing.T) {
 versionsRaw := []string{
  "1.1.1",
  "1.0",
  "1.2",
  "2",
  "0.7.1",
 }

 versions := make([]*Version, len(versionsRaw))
 for i, raw := range versionsRaw {
  v, err := NewVersion(raw)
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  versions[i] = v
 }

 sort.Sort(Collection(versions))

 actual := make([]string, len(versions))
 for i, v := range versions {
  actual[i] = v.String()
 }
```

```
 expected := []string{
  "0.7.1",
  "1.0.0",
  "1.1.1",
  "1.2.0",
  "2.0.0",
 }

 if !reflect.DeepEqual(actual, expected) {
  t.Fatalf("bad: %#v", actual)
 }
}
name: go-tests

on: [push]

env:
 TEST_RESULTS: /tmp/test-results

jobs:

 go-tests:
   runs-on: ubuntu-latest
   strategy:
     matrix:
       go-version: [ 1.15.3, 1.19 ]

   steps:
     - name: Setup go
       uses: actions/setup-go@41dfa10bad2bb2ae585af6ee5bb4d7d973ad74ed # v5.1.0
       with:
         go-version: ${{ matrix.go-version }}

     - name: Checkout code
       uses: actions/checkout@11bd71901bbe5b1630ceea73d27597364c9af683 # v4.2.2

     - name: Create test directory
       run: |
         mkdir -p ${{ env.TEST_RESULTS }}

     - name: Download go modules
       run: go mod download

     - name: Cache / restore go modules
       uses: actions/cache@1bd1e32a3bdc45362d1e726936510720a7c30a57 # v4.2.0
       with:
         path: |
```

```
        ~/go/pkg/mod
      key: ${{ runner.os }}-go-${{ hashFiles('**/go.sum') }}
      restore-keys: |
        ${{ runner.os }}-go-

  # Check go fmt output because it does not report
non-zero when there are fmt changes
  - name: Run gofmt
    run: |
      go fmt ./...
      files=$(go fmt ./...)
        if [ -n "$files" ]; then
          echo "The following file(s) do not conform to go fmt:"
          echo "$files"
          exit 1
        fi

  # Install gotestsum with go get for 1.15.3; otherwise default to go install
  - name: Install gotestsum
    run: |
      GTS="gotest.tools/gotestsum@v1.8.2"
      # We use the same error message prefix in either failure case, so just define it once here.
      ERROR="Failed to install $GTS"
      # First try to 'go install', if that fails try 'go get'...
      go install "$GTS" || go get "$GTS" || { echo "$ERROR: both 'go install' and 'go get' failed"; exit 1; }
      # Check that the gotestsum command was actually installed in the path...
      command -v gotestsum > /dev/null 2>&1 || { echo "$ERROR: gotestsum command not installed"; exit
1; }
      echo "OK: Command 'gotestsum' installed ($GTS)"

  - name: Run go tests
    run: |
      PACKAGE_NAMES=$(go list ./...)
      gotestsum --format=short-verbose --junitfile $TEST_RESULTS/gotestsum-report.xml --
$PACKAGE_NAMES

  # Save coverage report parts
  - name: Upload and save artifacts
    uses: actions/upload-artifact@b4b15b8c7c6ac21ea08fcf65892d2ee8f75cf882 # v4.4.3
    with:
      name: Test Results
      path: ${{ env.TEST_RESULTS }}
```

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Versioning Library for Go

![Build Status](https://github.com/hashicorp/go-version/actions/workflows/go-tests.yml/badge.svg)
[![GoDoc](https://godoc.org/github.com/hashicorp/go-version?status.svg)](https://godoc.org/github.com/hashicorp/go-version)

go-version is a library for parsing versions and version constraints,
and verifying versions against a set of constraints. go-version
can sort a collection of versions properly, handles prerelease/beta
versions, can increment versions, etc.

Versions used with go-version must follow [SemVer](http://semver.org/).

Installation and Usage

Package documentation can be found on
[GoDoc](http://godoc.org/github.com/hashicorp/go-version).

Installation can be done with a normal `go get`:

```
$ go get github.com/hashicorp/go-version
```

Version Parsing and Comparison

```go
v1, err := version.NewVersion("1.2")
v2, err := version.NewVersion("1.5+metadata")

// Comparison example. There is also GreaterThan, Equal, and just
// a simple Compare
 that returns an int allowing easy >=, <=, etc.
if v1.LessThan(v2) {
   fmt.Printf("%s is less than %s", v1, v2)
}
```

Version Constraints

```go
v1, err := version.NewVersion("1.2")

// Constraints example.
constraints, err := version.NewConstraint(">= 1.0, < 1.4")
if constraints.Check(v1) {
 fmt.Printf("%s satisfies constraints %s", v1, constraints)
}
```

Version Sorting

```go
versionsRaw := []string{"1.1", "0.7.1", "1.4-beta", "1.4", "2"}
versions := make([]*version.Version, len(versionsRaw))
for i, raw := range versionsRaw {
   v, _ := version.NewVersion(raw)
   versions[i] = v
}

// After this, the versions are properly sorted
sort.Sort(version.Collection(versions))
```

Issues and Contributing

If you find an issue with this library, please report an issue. If you'd like, we welcome any contributions. Fork this library and submit a pull request.

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```
package version

import (
 "encoding/json"
 "fmt"
 "reflect"
 "testing"
)

func TestNewVersion(t *testing.T) {
 cases := []struct {
  version string
  err     bool
 }{
  {"", true},
  {"1.2.3", false},
  {"1.0", false},
  {"1", false},
  {"1.2.beta", true},
  {"1.21.beta", true},
  {"foo", true},
  {"1.2-5", false},
  {"1.2-beta.5", false},
  {"\n1.2", true},
  {"1.2.0-x.Y.0+metadata", false},
  {"1.2.0-x.Y.0+metadata-width-hyphen", false},
  {"1.2.3-rc1-with-hyphen", false},
  {"1.2.3.4", false},
  {"1.2.0.4-x.Y.0+metadata", false},
```

```
 {"1.2.0.4-x.Y.0+metadata-width-hyphen", false},
 {"1.2.0-X-1.2.0+metadata~dist", false},
 {"1.2.3.4-rc1-with-hyphen", false},
 {"1.2.3.4", false},
 {"v1.2.3", false},
 {"foo1.2.3", true},
 {"1.7rc2", false},
 {"v1.7rc2", false},
 {"1.0-", false},
 }

 for _, tc := range cases {
  _, err := NewVersion(tc.version)
  if tc.err && err == nil {
   t.Fatalf("expected error for version:
 %q", tc.version)
  } else if !tc.err && err != nil {
   t.Fatalf("error for version %q: %s", tc.version, err)
  }
 }
}

func TestNewSemver(t *testing.T) {
 cases := []struct {
  version string
  err     bool
 }{
  {"", true},
  {"1.2.3", false},
  {"1.0", false},
  {"1", false},
  {"1.2.beta", true},
  {"1.21.beta", true},
  {"foo", true},
  {"1.2-5", false},
  {"1.2-beta.5", false},
  {"\n1.2", true},
  {"1.2.0-x.Y.0+metadata", false},
  {"1.2.0-x.Y.0+metadata-width-hyphen", false},
  {"1.2.3-rc1-with-hyphen", false},
  {"1.2.3.4", false},
  {"1.2.0.4-x.Y.0+metadata", false},
  {"1.2.0.4-x.Y.0+metadata-width-hyphen", false},
  {"1.2.0-X-1.2.0+metadata~dist", false},
  {"1.2.3.4-rc1-with-hyphen", false},
  {"1.2.3.4", false},
  {"v1.2.3", false},
  {"foo1.2.3", true},
```

```
 {"1.7rc2", true},
 {"v1.7rc2", true},
 {"1.0-", true},
}

for _, tc := range cases {
 _, err := NewSemver(tc.version)
 if tc.err && err == nil {
  t.Fatalf("expected error for version: %q", tc.version)
 } else
if !tc.err && err != nil {
  t.Fatalf("error for version %q: %s", tc.version, err)
 }
}
}

func TestCore(t *testing.T) {
cases := []struct {
 v1 string
 v2 string
}{
 {"1.2.3", "1.2.3"},
 {"2.3.4-alpha1", "2.3.4"},
 {"3.4.5alpha1", "3.4.5"},
 {"1.2.3-2", "1.2.3"},
 {"4.5.6-beta1+meta", "4.5.6"},
 {"5.6.7.1.2.3", "5.6.7"},
}

for _, tc := range cases {
 v1, err := NewVersion(tc.v1)
 if err != nil {
  t.Fatalf("error for version %q: %s", tc.v1, err)
 }
 v2, err := NewVersion(tc.v2)
 if err != nil {
  t.Fatalf("error for version %q: %s", tc.v2, err)
 }

 actual := v1.Core()
 expected := v2

 if !reflect.DeepEqual(actual, expected) {
  t.Fatalf("expected: %s\nactual: %s", expected, actual)
 }
}
}
```

```
func TestVersionCompare(t *testing.T) {
 cases := []struct {
  v1       string
  v2       string
  expected int
 }{
  {"1.2.3", "1.4.5", -1},
  {"1.2-beta", "1.2-beta", 0},
  {"1.2", "1.1.4", 1},
  {"1.2", "1.2-beta", 1},
  {"1.2+foo", "1.2+beta", 0},
  {"v1.2", "v1.2-beta",
 1},
  {"v1.2+foo", "v1.2+beta", 0},
  {"v1.2.3.4", "v1.2.3.4", 0},
  {"v1.2.0.0", "v1.2", 0},
  {"v1.2.0.0.1", "v1.2", 1},
  {"v1.2", "v1.2.0.0", 0},
  {"v1.2", "v1.2.0.0.1", -1},
  {"v1.2.0.0", "v1.2.0.0.1", -1},
  {"v1.2.3.0", "v1.2.3.4", -1},
  {"1.7rc2", "1.7rc1", 1},
  {"1.7rc2", "1.7", -1},
  {"1.2.0", "1.2.0-X-1.2.0+metadata~dist", 1},
 }

 for _, tc := range cases {
  v1, err := NewVersion(tc.v1)
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  v2, err := NewVersion(tc.v2)
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  actual := v1.Compare(v2)
  expected := tc.expected
  if actual != expected {
   t.Fatalf(
    "%s <=> %s\nexpected: %d\nactual: %d",
    tc.v1, tc.v2,
    expected, actual)
  }
 }
}
```

```
func TestVersionCompare_versionAndSemver(t *testing.T) {
 cases := []struct {
  versionRaw string
  semverRaw  string
  expected   int
 }{
  {"0.0.2", "0.0.2", 0},
  {"1.0.2alpha", "1.0.2-alpha", 0},
  {"v1.2+foo", "v1.2+beta", 0},
  {"v1.2", "v1.2+meta", 0},
  {"1.2",
 "1.2-beta", 1},
  {"v1.2", "v1.2-beta", 1},
  {"1.2.3", "1.4.5", -1},
  {"v1.2", "v1.2.0.0.1", -1},
  {"v1.0.3-", "v1.0.3", -1},
 }

 for _, tc := range cases {
  ver, err := NewVersion(tc.versionRaw)
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  semver, err := NewSemver(tc.semverRaw)
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  actual := ver.Compare(semver)
  if actual != tc.expected {
   t.Fatalf(
    "%s <=> %s\nexpected: %d\n actual: %d",
    tc.versionRaw, tc.semverRaw, tc.expected, actual,
   )
  }
 }
}

func TestVersionEqual_nil(t *testing.T) {
 mustVersion := func(v string) *Version {
  ver, err := NewVersion(v)
  if err != nil {
   t.Fatal(err)
  }
  return ver
 }
 cases := []struct {
```

```
 leftVersion  *Version
 rightVersion *Version
 expected     bool
}{
 {mustVersion("1.0.0"), nil, false},
 {nil, mustVersion("1.0.0"), false},
 {nil, nil, true},
}

for _, tc := range cases {
 given := tc.leftVersion.Equal(tc.rightVersion)
 if given != tc.expected {
  t.Fatalf("expected
Equal to nil to be %t", tc.expected)
 }
}
}

func TestComparePreReleases(t *testing.T) {
 cases := []struct {
  v1       string
  v2       string
  expected int
 }{
  {"1.2-beta.2", "1.2-beta.2", 0},
  {"1.2-beta.1", "1.2-beta.2", -1},
  {"1.2-beta.2", "1.2-beta.11", -1},
  {"3.2-alpha.1", "3.2-alpha", 1},
  {"1.2-beta.2", "1.2-beta.1", 1},
  {"1.2-beta.11", "1.2-beta.2", 1},
  {"1.2-beta", "1.2-beta.3", -1},
  {"1.2-alpha", "1.2-beta.3", -1},
  {"1.2-beta", "1.2-alpha.3", 1},
  {"3.0-alpha.3", "3.0-rc.1", -1},
  {"3.0-alpha3", "3.0-rc1", -1},
  {"3.0-alpha.1", "3.0-alpha.beta", -1},
  {"5.4-alpha", "5.4-alpha.beta", 1},
  {"v1.2-beta.2", "v1.2-beta.2", 0},
  {"v1.2-beta.1", "v1.2-beta.2", -1},
  {"v3.2-alpha.1", "v3.2-alpha", 1},
  {"v3.2-rc.1-1-g123", "v3.2-rc.2", 1},
 }

 for _, tc := range cases {
  v1, err := NewVersion(tc.v1)
  if err != nil {
   t.Fatalf("err: %s", err)
  }
```

```
 v2, err := NewVersion(tc.v2)
 if err != nil {
  t.Fatalf("err: %s", err)
 }

 actual
:= v1.Compare(v2)
 expected := tc.expected
 if actual != expected {
  t.Fatalf(
   "%s <=> %s\nexpected: %d\nactual: %d",
   tc.v1, tc.v2,
   expected, actual)
 }
}
}

func TestVersionMetadata(t *testing.T) {
 cases := []struct {
  version  string
  expected string
 }{
  {"1.2.3", ""},
  {"1.2-beta", ""},
  {"1.2.0-x.Y.0", ""},
  {"1.2.0-x.Y.0+metadata", "metadata"},
  {"1.2.0-metadata-1.2.0+metadata~dist", "metadata~dist"},
 }

 for _, tc := range cases {
  v, err := NewVersion(tc.version)
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  actual := v.Metadata()
  expected := tc.expected
  if actual != expected {
   t.Fatalf("expected: %s\nactual: %s", expected, actual)
  }
 }
}

func TestVersionPrerelease(t *testing.T) {
 cases := []struct {
  version  string
  expected string
```

```
 }{
  {"1.2.3", ""},
  {"1.2-beta", "beta"},
  {"1.2.0-x.Y.0", "x.Y.0"},
  {"1.2.0-7.Y.0", "7.Y.0"},
  {"1.2.0-x.Y.0+metadata", "x.Y.0"},
  {"1.2.0-metadata-1.2.0+metadata~dist", "metadata-1.2.0"},
  {"17.03.0-ce",
 "ce"}, // zero-padded fields
 }

 for _, tc := range cases {
  v, err := NewVersion(tc.version)
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  actual := v.Prerelease()
  expected := tc.expected
  if actual != expected {
   t.Fatalf("expected: %s\nactual: %s", expected, actual)
  }
 }
}

func TestVersionSegments(t *testing.T) {
 cases := []struct {
  version  string
  expected []int
 }{
  {"1.2.3", []int{1, 2, 3}},
  {"1.2-beta", []int{1, 2, 0}},
  {"1-x.Y.0", []int{1, 0, 0}},
  {"1.2.0-x.Y.0+metadata", []int{1, 2, 0}},
  {"1.2.0-metadata-1.2.0+metadata~dist", []int{1, 2, 0}},
  {"17.03.0-ce", []int{17, 3, 0}}, // zero-padded fields
 }

 for _, tc := range cases {
  v, err := NewVersion(tc.version)
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  actual := v.Segments()
  expected := tc.expected
  if !reflect.DeepEqual(actual, expected) {
   t.Fatalf("expected: %#v\nactual: %#v", expected, actual)
```

```
  }
 }
}

func TestVersionSegments64(t *testing.T) {
 cases
 := []struct {
  version  string
  expected []int64
 }{
  {"1.2.3", []int64{1, 2, 3}},
  {"1.2-beta", []int64{1, 2, 0}},
  {"1-x.Y.0", []int64{1, 0, 0}},
  {"1.2.0-x.Y.0+metadata", []int64{1, 2, 0}},
  {"1.4.9223372036854775807", []int64{1, 4, 9223372036854775807}},
 }

 for _, tc := range cases {
  v, err := NewVersion(tc.version)
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  actual := v.Segments64()
  expected := tc.expected
  if !reflect.DeepEqual(actual, expected) {
   t.Fatalf("expected: %#v\nactual: %#v", expected, actual)
  }

  {
   expected := actual[0]
   actual[0]++
   actual = v.Segments64()
   if actual[0] != expected {
    t.Fatalf("Segments64 is mutable")
   }
  }
 }
}

func TestJsonMarshal(t *testing.T) {
 cases := []struct {
  version string
  err     bool
 }{
  {"1.2.3", false},
  {"1.2.0-x.Y.0+metadata", false},
  {"1.2.0-x.Y.0+metadata-width-hyphen", false},
```

```
 {"1.2.3-rc1-with-hyphen", false},
 {"1.2.3.4", false},
 {"1.2.0.4-x.Y.0+metadata", false},
 {"1.2.0.4-x.Y.0+metadata-width-hyphen",
false},
 {"1.2.0-X-1.2.0+metadata~dist", false},
 {"1.2.3.4-rc1-with-hyphen", false},
 {"1.2.3.4", false},
}

for _, tc := range cases {
 v, err1 := NewVersion(tc.version)
 if err1 != nil {
  t.Fatalf("error for version %q: %s", tc.version, err1)
 }

 parsed, err2 := json.Marshal(v)
 if err2 != nil {
  t.Fatalf("error marshaling version %q: %s", tc.version, err2)
 }
 result := string(parsed)
 expected := fmt.Sprintf("%q", tc.version)
 if result != expected && !tc.err {
  t.Fatalf("Error marshaling unexpected marshaled content: result=%q expected=%q", result, expected)
 }
}
}

func TestJsonUnmarshal(t *testing.T) {
 cases := []struct {
  version string
  err     bool
 }{
  {"1.2.3", false},
  {"1.2.0-x.Y.0+metadata", false},
  {"1.2.0-x.Y.0+metadata-width-hyphen", false},
  {"1.2.3-rc1-with-hyphen", false},
  {"1.2.3.4", false},
  {"1.2.0.4-x.Y.0+metadata", false},
  {"1.2.0.4-x.Y.0+metadata-width-hyphen", false},
  {"1.2.0-X-1.2.0+metadata~dist",
false},
  {"1.2.3.4-rc1-with-hyphen", false},
  {"1.2.3.4", false},
 }

 for _, tc := range cases {
  expected, err1 := NewVersion(tc.version)
```

```
 if err1 != nil {
  t.Fatalf("err: %s", err1)
 }

 actual := &Version{}
 err2 := json.Unmarshal([]byte(fmt.Sprintf("%q", tc.version)), actual)
 if err2 != nil {
  t.Fatalf("error unmarshaling version: %s", err2)
 }
 if !reflect.DeepEqual(actual, expected) {
  t.Fatalf("error unmarshaling, unexpected object content: actual=%q expected=%q", actual, expected)
 }
}
}

func TestVersionString(t *testing.T) {
 cases := [][]string{
  {"1.2.3", "1.2.3"},
  {"1.2-beta", "1.2.0-beta"},
  {"1.2.0-x.Y.0", "1.2.0-x.Y.0"},
  {"1.2.0-x.Y.0+metadata", "1.2.0-x.Y.0+metadata"},
  {"1.2.0-metadata-1.2.0+metadata~dist", "1.2.0-metadata-1.2.0+metadata~dist"},
  {"17.03.0-ce", "17.3.0-ce"}, // zero-padded fields
 }

 for _, tc := range cases {
  v, err := NewVersion(tc[0])
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  actual := v.String()
  expected
 := tc[1]
  if actual != expected {
   t.Fatalf("expected: %s\nactual: %s", expected, actual)
  }
  if actual := v.Original(); actual != tc[0] {
   t.Fatalf("expected original: %q\nactual: %q", tc[0], actual)
  }
 }
}

func TestEqual(t *testing.T) {
 cases := []struct {
  v1       string
  v2       string
  expected bool
```

```
}{
 {"1.2.3", "1.4.5", false},
 {"1.2-beta", "1.2-beta", true},
 {"1.2", "1.1.4", false},
 {"1.2", "1.2-beta", false},
 {"1.2+foo", "1.2+beta", true},
 {"v1.2", "v1.2-beta", false},
 {"v1.2+foo", "v1.2+beta", true},
 {"v1.2.3.4", "v1.2.3.4", true},
 {"v1.2.0.0", "v1.2", true},
 {"v1.2.0.0.1", "v1.2", false},
 {"v1.2", "v1.2.0.0", true},
 {"v1.2", "v1.2.0.0.1", false},
 {"v1.2.0.0", "v1.2.0.0.1", false},
 {"v1.2.3.0", "v1.2.3.4", false},
 {"1.7rc2", "1.7rc1", false},
 {"1.7rc2", "1.7", false},
 {"1.2.0", "1.2.0-X-1.2.0+metadata~dist", false},
}

for _, tc := range cases {
 v1, err := NewVersion(tc.v1)
 if err != nil {
  t.Fatalf("err:
%s", err)
 }

 v2, err := NewVersion(tc.v2)
 if err != nil {
  t.Fatalf("err: %s", err)
 }

 actual := v1.Equal(v2)
 expected := tc.expected
 if actual != expected {
  t.Fatalf(
   "%s <=> %s\nexpected: %t\nactual: %t",
   tc.v1, tc.v2,
   expected, actual)
 }
}
}

func TestGreaterThan(t *testing.T) {
 cases := []struct {
  v1       string
  v2       string
  expected bool
```

```
 }{
  {"1.2.3", "1.4.5", false},
  {"1.2-beta", "1.2-beta", false},
  {"1.2", "1.1.4", true},
  {"1.2", "1.2-beta", true},
  {"1.2+foo", "1.2+beta", false},
  {"v1.2", "v1.2-beta", true},
  {"v1.2+foo", "v1.2+beta", false},
  {"v1.2.3.4", "v1.2.3.4", false},
  {"v1.2.0.0", "v1.2", false},
  {"v1.2.0.0.1", "v1.2", true},
  {"v1.2", "v1.2.0.0", false},
  {"v1.2", "v1.2.0.0.1", false},
  {"v1.2.0.0", "v1.2.0.0.1", false},
  {"v1.2.3.0", "v1.2.3.4", false},
  {"1.7rc2", "1.7rc1", true},
  {"1.7rc2", "1.7", false},
  {"1.2.0", "1.2.0-X-1.2.0+metadata~dist", true},
 }

 for _, tc := range cases {
  v1,
 err := NewVersion(tc.v1)
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  v2, err := NewVersion(tc.v2)
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  actual := v1.GreaterThan(v2)
  expected := tc.expected
  if actual != expected {
   t.Fatalf(
    "%s > %s\nexpected: %t\nactual: %t",
    tc.v1, tc.v2,
    expected, actual)
  }
 }
}

func TestLessThan(t *testing.T) {
 cases := []struct {
  v1       string
  v2       string
  expected bool
```

```
 }{
  {"1.2.3", "1.4.5", true},
  {"1.2-beta", "1.2-beta", false},
  {"1.2", "1.1.4", false},
  {"1.2", "1.2-beta", false},
  {"1.2+foo", "1.2+beta", false},
  {"v1.2", "v1.2-beta", false},
  {"v1.2+foo", "v1.2+beta", false},
  {"v1.2.3.4", "v1.2.3.4", false},
  {"v1.2.0.0", "v1.2", false},
  {"v1.2.0.0.1", "v1.2", false},
  {"v1.2", "v1.2.0.0", false},
  {"v1.2", "v1.2.0.0.1", true},
  {"v1.2.0.0", "v1.2.0.0.1", true},
  {"v1.2.3.0", "v1.2.3.4", true},
  {"1.7rc2", "1.7rc1", false},
  {"1.7rc2", "1.7", true},
  {"1.2.0", "1.2.0-X-1.2.0+metadata~dist",
 false},
 }

 for _, tc := range cases {
  v1, err := NewVersion(tc.v1)
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  v2, err := NewVersion(tc.v2)
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  actual := v1.LessThan(v2)
  expected := tc.expected
  if actual != expected {
   t.Fatalf(
    "%s < %s\nexpected: %t\nactual: %t",
    tc.v1, tc.v2,
    expected, actual)
  }
 }
}

func TestGreaterThanOrEqual(t *testing.T) {
 cases := []struct {
  v1       string
  v2       string
  expected bool
```

```
 }{
  {"1.2.3", "1.4.5", false},
  {"1.2-beta", "1.2-beta", true},
  {"1.2", "1.1.4", true},
  {"1.2", "1.2-beta", true},
  {"1.2+foo", "1.2+beta", true},
  {"v1.2", "v1.2-beta", true},
  {"v1.2+foo", "v1.2+beta", true},
  {"v1.2.3.4", "v1.2.3.4", true},
  {"v1.2.0.0", "v1.2", true},
  {"v1.2.0.0.1", "v1.2", true},
  {"v1.2", "v1.2.0.0", true},
  {"v1.2", "v1.2.0.0.1", false},
  {"v1.2.0.0", "v1.2.0.0.1", false},
  {"v1.2.3.0", "v1.2.3.4", false},
  {"1.7rc2", "1.7rc1", true},
  {"1.7rc2",
 "1.7", false},
  {"1.2.0", "1.2.0-X-1.2.0+metadata~dist", true},
 }

 for _, tc := range cases {
  v1, err := NewVersion(tc.v1)
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  v2, err := NewVersion(tc.v2)
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  actual := v1.GreaterThanOrEqual(v2)
  expected := tc.expected
  if actual != expected {
   t.Fatalf(
    "%s >= %s\nexpected: %t\nactual: %t",
    tc.v1, tc.v2,
    expected, actual)
  }
 }
}

func TestLessThanOrEqual(t *testing.T) {
 cases := []struct {
  v1       string
  v2       string
  expected bool
```

```
 }{
  {"1.2.3", "1.4.5", true},
  {"1.2-beta", "1.2-beta", true},
  {"1.2", "1.1.4", false},
  {"1.2", "1.2-beta", false},
  {"1.2+foo", "1.2+beta", true},
  {"v1.2", "v1.2-beta", false},
  {"v1.2+foo", "v1.2+beta", true},
  {"v1.2.3.4", "v1.2.3.4", true},
  {"v1.2.0.0", "v1.2", true},
  {"v1.2.0.0.1", "v1.2", false},
  {"v1.2", "v1.2.0.0", true},
  {"v1.2", "v1.2.0.0.1", true},
  {"v1.2.0.0", "v1.2.0.0.1", true},
  {"v1.2.3.0",
"v1.2.3.4", true},
  {"1.7rc2", "1.7rc1", false},
  {"1.7rc2", "1.7", true},
  {"1.2.0", "1.2.0-X-1.2.0+metadata~dist", false},
 }

 for _, tc := range cases {
  v1, err := NewVersion(tc.v1)
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  v2, err := NewVersion(tc.v2)
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  actual := v1.LessThanOrEqual(v2)
  expected := tc.expected
  if actual != expected {
   t.Fatalf(
    "%s <= %s\nexpected: %t\nactual: %t",
    tc.v1, tc.v2,
    expected, actual)
  }
 }
}
```

Data model artifacts for Prometheus.
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1.7.0 (May 24, 2024)

ENHANCEMENTS:

- Remove `reflect` dependency ([#91](https://github.com/hashicorp/go-version/pull/91))
- Implement the `database/sql.Scanner` and `database/sql/driver.Value` interfaces for `Version` ([#133](https://github.com/hashicorp/go-version/pull/133))

INTERNAL:

- [COMPLIANCE] Add Copyright and License Headers ([#115](https://github.com/hashicorp/go-version/pull/115))
- [COMPLIANCE] Update MPL-2.0 LICENSE ([#105](https://github.com/hashicorp/go-version/pull/105))
- Bump actions/cache from 3.0.11 to 3.2.5 ([#116](https://github.com/hashicorp/go-version/pull/116))
- Bump actions/checkout from 3.2.0 to 3.3.0 ([#111](https://github.com/hashicorp/go-version/pull/111))
- Bump actions/upload-artifact from 3.1.1 to 3.1.2 ([#112](https://github.com/hashicorp/go-version/pull/112))
- GHA Migration ([#103](https://github.com/hashicorp/go-version/pull/103))
- github: Pin external GitHub Actions to hashes ([#107](https://github.com/hashicorp/go-version/pull/107))
- SEC-090:
  Automated trusted workflow pinning (2023-04-05) ([#124](https://github.com/hashicorp/go-version/pull/124))
- update readme ([#104](https://github.com/hashicorp/go-version/pull/104))

1.6.0 (June 28, 2022)

FEATURES:

- Add `Prerelease` function to `Constraint` to return true if the version includes a prerelease field ([#100](https://github.com/hashicorp/go-version/pull/100))

1.5.0 (May 18, 2022)

FEATURES:

- Use `encoding` `TextMarshaler` & `TextUnmarshaler` instead of JSON equivalents ([#95](https://github.com/hashicorp/go-version/pull/95))
- Add JSON handlers to allow parsing from/to JSON ([#93](https://github.com/hashicorp/go-version/pull/93))

1.4.0 (January 5, 2022)

FEATURES:

- Introduce `MustConstraints()` ([#87](https://github.com/hashicorp/go-version/pull/87))

- `Constraints`: Introduce `Equals()` and `sort.Interface` methods ([#88](https://github.com/hashicorp/go-version/pull/88))

1.3.0 (March 31, 2021)

Please note that CHANGELOG.md does not exist in the source
code prior to this release.

FEATURES:
- Add `Core` function to return a version without prerelease or metadata ([#85](https://github.com/hashicorp/go-version/pull/85))

1.2.1 (June 17, 2020)

BUG FIXES:
- Prevent `Version.Equal` method from panicking on `nil` encounter ([#73](https://github.com/hashicorp/go-version/pull/73))

1.2.0 (April 23, 2019)

FEATURES:
- Add `GreaterThanOrEqual` and `LessThanOrEqual` helper methods ([#53](https://github.com/hashicorp/go-version/pull/53))

1.1.0 (Jan 07, 2019)

FEATURES:
- Add `NewSemver` constructor ([#45](https://github.com/hashicorp/go-version/pull/45))

1.0.0 (August 24, 2018)

Initial release.
procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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```
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package version

import (
 "fmt"
 "regexp"
 "sort"
 "strings"
)

// Constraint represents a single constraint for a version, such as
// ">= 1.0".
type Constraint struct {
 f       constraintFunc
 op      operator
 check   *Version
 original string
}
```

```
func (c *Constraint) Equals(con *Constraint) bool {
 return c.op == con.op && c.check.Equal(con.check)
}

// Constraints is a slice of constraints. We make a custom type so that
// we can add methods to it.
type Constraints []*Constraint

type constraintFunc func(v, c *Version) bool

var constraintOperators map[string]constraintOperation

type constraintOperation struct {
 op operator
 f  constraintFunc
}

var constraintRegexp *regexp.Regexp

func init() {
 constraintOperators = map[string]constraintOperation{
  "":   {op: equal, f: constraintEqual},
  "=":  {op: equal, f: constraintEqual},
  "!=": {op: notEqual, f: constraintNotEqual},
  ">":  {op: greaterThan, f: constraintGreaterThan},
  "<":
  {op: lessThan, f: constraintLessThan},
  ">=": {op: greaterThanEqual, f: constraintGreaterThanEqual},
  "<=": {op: lessThanEqual, f: constraintLessThanEqual},
  "~>": {op: pessimistic, f: constraintPessimistic},
 }

 ops := make([]string, 0, len(constraintOperators))
 for k := range constraintOperators {
  ops = append(ops, regexp.QuoteMeta(k))
 }

 constraintRegexp = regexp.MustCompile(fmt.Sprintf(
  `^\s*(%s)\s*(%s)\s*$`,
  strings.Join(ops, "|"),
  VersionRegexpRaw))
}

// NewConstraint will parse one or more constraints from the given
// constraint string. The string must be a comma-separated list of
// constraints.
func NewConstraint(v string) (Constraints, error) {
```

```
 vs := strings.Split(v, ",")
 result := make([]*Constraint, len(vs))
 for i, single := range vs {
  c, err := parseSingle(single)
  if err != nil {
   return nil, err
  }

  result[i] = c
 }

 return Constraints(result), nil
}

// MustConstraints is a helper that wraps a call to a function
//
 returning (Constraints, error) and panics if error is non-nil.
func MustConstraints(c Constraints, err error) Constraints {
 if err != nil {
  panic(err)
 }

 return c
}

// Check tests if a version satisfies all the constraints.
func (cs Constraints) Check(v *Version) bool {
 for _, c := range cs {
  if !c.Check(v) {
   return false
  }
 }

 return true
}

// Equals compares Constraints with other Constraints
// for equality. This may not represent logical equivalence
// of compared constraints.
// e.g. even though '>0.1,>0.2' is logically equivalent
// to '>0.2' it is *NOT* treated as equal.
//
// Missing operator is treated as equal to '=', whitespaces
// are ignored and constraints are sorted before comaparison.
func (cs Constraints) Equals(c Constraints) bool {
 if len(cs) != len(c) {
  return false
 }
```

```
 // make copies to retain order of the original slices
 left := make(Constraints, len(cs))
 copy(left, cs)
 sort.Stable(left)
 right := make(Constraints, len(c))
 copy(right, c)
 sort.Stable(right)

 //
 compare sorted slices
 for i, con := range left {
  if !con.Equals(right[i]) {
   return false
  }
 }

 return true
}

func (cs Constraints) Len() int {
 return len(cs)
}

func (cs Constraints) Less(i, j int) bool {
 if cs[i].op < cs[j].op {
  return true
 }
 if cs[i].op > cs[j].op {
  return false
 }

 return cs[i].check.LessThan(cs[j].check)
}

func (cs Constraints) Swap(i, j int) {
 cs[i], cs[j] = cs[j], cs[i]
}

// Returns the string format of the constraints
func (cs Constraints) String() string {
 csStr := make([]string, len(cs))
 for i, c := range cs {
  csStr[i] = c.String()
 }

 return strings.Join(csStr, ",")
}
```

```
// Check tests if a constraint is validated by the given version.
func (c *Constraint) Check(v *Version) bool {
 return c.f(v, c.check)
}

// Prerelease returns true if the version underlying this constraint
// contains a prerelease field.
func (c *Constraint) Prerelease() bool {
 return len(c.check.Prerelease()) > 0
}

func (c *Constraint) String()
 string {
 return c.original
}

func parseSingle(v string) (*Constraint, error) {
 matches := constraintRegexp.FindStringSubmatch(v)
 if matches == nil {
  return nil, fmt.Errorf("Malformed constraint: %s", v)
 }

 check, err := NewVersion(matches[2])
 if err != nil {
  return nil, err
 }

 cop := constraintOperators[matches[1]]

 return &Constraint{
  f:        cop.f,
  op:       cop.op,
  check:    check,
  original: v,
 }, nil
}

func prereleaseCheck(v, c *Version) bool {
 switch vPre, cPre := v.Prerelease() != "", c.Prerelease() != ""; {
 case cPre && vPre:
  // A constraint with a pre-release can only match a pre-release version
  // with the same base segments.
  return v.equalSegments(c)

 case !cPre && vPre:
  // A constraint without a pre-release can only match a version without a
  // pre-release.
```

```
  return false

 case cPre && !vPre:
  // OK, except with the pessimistic operator
 case !cPre && !vPre:
  // OK
 }
 return true
}

//-----------------------------------------------------------------
//
 Constraint functions
//-----------------------------------------------------------------

type operator rune

const (
 equal            operator = '='
 notEqual         operator = ''
 greaterThan      operator = '>'
 lessThan         operator = '<'
 greaterThanEqual operator = ''
 lessThanEqual    operator = ''
 pessimistic      operator = '~'
)

func constraintEqual(v, c *Version) bool {
 return v.Equal(c)
}

func constraintNotEqual(v, c *Version) bool {
 return !v.Equal(c)
}

func constraintGreaterThan(v, c *Version) bool {
 return prereleaseCheck(v, c) && v.Compare(c) == 1
}

func constraintLessThan(v, c *Version) bool {
 return prereleaseCheck(v, c) && v.Compare(c) == -1
}

func constraintGreaterThanEqual(v, c *Version) bool {
 return prereleaseCheck(v, c) && v.Compare(c) >= 0
}

func constraintLessThanEqual(v, c *Version) bool {
```

```
 return prereleaseCheck(v, c) && v.Compare(c) <= 0
}

func constraintPessimistic(v, c *Version) bool {
 // Using a pessimistic
 constraint with a pre-release, restricts versions to pre-releases
 if !prereleaseCheck(v, c) || (c.Prerelease() != "" && v.Prerelease() == "") {
  return false
 }

 // If the version being checked is naturally less than the constraint, then there
 // is no way for the version to be valid against the constraint
 if v.LessThan(c) {
  return false
 }
 // We'll use this more than once, so grab the length now so it's a little cleaner
 // to write the later checks
 cs := len(c.segments)

 // If the version being checked has less specificity than the constraint, then there
 // is no way for the version to be valid against the constraint
 if cs > len(v.segments) {
  return false
 }

 // Check the segments in the constraint against those in the version. If the version
 // being checked, at any point, does not have the same values in each index of the
 // constraints segments, then it cannot be valid against the constraint.
 for i := 0; i < c.si-1; i++ {
  if v.segments[i] != c.segments[i]
  {
   return false
  }
 }

 // Check the last part of the segment in the constraint. If the version segment at
 // this index is less than the constraints segment at this index, then it cannot
 // be valid against the constraint
 if c.segments[cs-1] > v.segments[cs-1] {
  return false
 }

 // If nothing has rejected the version by now, it's valid
 return true
}
version: 2
updates:
 - package-ecosystem: "gomod"
```

```
  directory: "/"
  schedule:
    interval: "daily"
  labels: ["dependencies"]

- package-ecosystem: github-actions
  directory: /
  schedule:
    interval: monthly
  labels:
    - dependencies
  # only update HashiCorp actions, external actions managed by TSCCR
  allow:
    - dependency-name: hashicorp/*
  groups:
    github-actions-breaking:
      update-types:
        - major
    github-actions-backward-compatible:
      update-types:
        - minor
        - patch
```

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```
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package version

import (
 "fmt"
 "reflect"
 "sort"
 "testing"
)

func TestNewConstraint(t *testing.T) {
 cases := []struct {
  input string
  count int
  err   bool
 }{
  {">= 1.2", 1, false},
  {"1.0", 1, false},
  {">= 1.x", 0, true},
  {">= 1.2, < 1.0", 2, false},
```

```
 // Out of bounds
 {"113877787807814456755295000000000000000", 0, true},
 }

 for _, tc := range cases {
  v, err := NewConstraint(tc.input)
  if tc.err && err == nil {
   t.Fatalf("expected error for input: %s", tc.input)
  } else if !tc.err && err != nil {
   t.Fatalf("error for input %s: %s", tc.input, err)
  }

  if len(v) != tc.count {
   t.Fatalf("input: %s\nexpected len: %d\nactual: %d",
    tc.input, tc.count, len(v))
  }
 }
}

func TestConstraintCheck(t *testing.T) {
 cases := []struct {
  constraint string
  version    string
  check      bool
 }{
  {">= 1.0, < 1.2", "1.1.5", true},
  {"< 1.0, < 1.2", "1.1.5", false},
  {"= 1.0", "1.1.5",
 false},
  {"= 1.0", "1.0.0", true},
  {"1.0", "1.0.0", true},
  {"~> 1.0", "2.0", false},
  {"~> 1.0", "1.1", true},
  {"~> 1.0", "1.2.3", true},
  {"~> 1.0.0", "1.2.3", false},
  {"~> 1.0.0", "1.0.7", true},
  {"~> 1.0.0", "1.1.0", false},
  {"~> 1.0.7", "1.0.4", false},
  {"~> 1.0.7", "1.0.7", true},
  {"~> 1.0.7", "1.0.8", true},
  {"~> 1.0.7", "1.0.7.5", true},
  {"~> 1.0.7", "1.0.6.99", false},
  {"~> 1.0.7", "1.0.8.0", true},
  {"~> 1.0.9.5", "1.0.9.5", true},
  {"~> 1.0.9.5", "1.0.9.4", false},
  {"~> 1.0.9.5", "1.0.9.6", true},
  {"~> 1.0.9.5", "1.0.9.5.0", true},
  {"~> 1.0.9.5", "1.0.9.5.1", true},
```

```
 {"~> 2.0", "2.1.0-beta", false},
 {"~> 2.1.0-a", "2.2.0", false},
 {"~> 2.1.0-a", "2.1.0", false},
 {"~> 2.1.0-a", "2.1.0-beta", true},
 {"~> 2.1.0-a", "2.2.0-alpha", false},
 {"> 2.0", "2.1.0-beta", false},
 {">= 2.1.0-a", "2.1.0-beta", true},
 {">= 2.1.0-a", "2.1.1-beta", false},
 {">= 2.0.0", "2.1.0-beta", false},
 {">= 2.1.0-a", "2.1.1", true},
 {">= 2.1.0-a", "2.1.1-beta",
false},
 {">= 2.1.0-a", "2.1.0", true},
 {"<= 2.1.0-a", "2.0.0", true},
}

for _, tc := range cases {
 c, err := NewConstraint(tc.constraint)
 if err != nil {
  t.Fatalf("err: %s", err)
 }

 v, err := NewVersion(tc.version)
 if err != nil {
  t.Fatalf("err: %s", err)
 }

 actual := c.Check(v)
 expected := tc.check
 if actual != expected {
  t.Fatalf("Version: %s\nConstraint: %s\nExpected: %#v",
   tc.version, tc.constraint, expected)
 }
}
}

func TestConstraintPrerelease(t *testing.T) {
 cases := []struct {
  constraint string
  prerelease bool
 }{
  {"= 1.0", false},
  {"= 1.0-beta", true},
  {"~> 2.1.0", false},
  {"~> 2.1.0-dev", true},
  {"> 2.0", false},
  {">= 2.1.0-a", true},
 }
```

```
 for _, tc := range cases {
  c, err := parseSingle(tc.constraint)
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  actual := c.Prerelease()
  expected := tc.prerelease
  if actual != expected {
   t.Fatalf("Constraint: %s\nExpected: %#v",
    tc.constraint, expected)
  }
 }
}

func
 TestConstraintEqual(t *testing.T) {
 cases := []struct {
  leftConstraint  string
  rightConstraint string
  expectedEqual   bool
 }{
  {
   "0.0.1",
   "0.0.1",
   true,
  },
  { // whitespaces
   " 0.0.1 ",
   "0.0.1",
   true,
  },
  { // equal op implied
   "=0.0.1 ",
   "0.0.1",
   true,
  },
  { // version difference
   "=0.0.1",
   "=0.0.2",
   false,
  },
  { // operator difference
   ">0.0.1",
   "=0.0.1",
   false,
  },
```

```
 { // different order
  ">0.1.0, <=1.0.0",
  "<=1.0.0, >0.1.0",
  true,
 },
}

for _, tc := range cases {
 leftCon, err := NewConstraint(tc.leftConstraint)
 if err != nil {
  t.Fatalf("err: %s", err)
 }
 rightCon, err := NewConstraint(tc.rightConstraint)
 if err != nil {
  t.Fatalf("err: %s", err)
 }

 actual := leftCon.Equals(rightCon)
 if actual != tc.expectedEqual {
  t.Fatalf("Constraints: %s vs %s\nExpected: %t\nActual: %t",
   tc.leftConstraint, tc.rightConstraint, tc.expectedEqual, actual)
 }
}
}

func TestConstraint_sort(t
 *testing.T) {
 cases := []struct {
  constraint          string
  expectedConstraints string
 }{
  {
   ">= 0.1.0,< 1.12",
   "< 1.12,>= 0.1.0",
  },
  {
   "< 1.12,>= 0.1.0",
   "< 1.12,>= 0.1.0",
  },
  {
   "< 1.12,>= 0.1.0,0.2.0",
   "< 1.12,0.2.0,>= 0.1.0",
  },
  {
   ">1.0,>0.1.0,>0.3.0,>0.2.0",
   ">0.1.0,>0.2.0,>0.3.0,>1.0",
  },
 }
```

```
 for i, tc := range cases {
  t.Run(fmt.Sprintf("%d", i), func(t *testing.T) {
   c, err := NewConstraint(tc.constraint)
   if err != nil {
    t.Fatalf("err: %s", err)
   }

   sort.Sort(c)

   actual := c.String()

   if !reflect.DeepEqual(actual, tc.expectedConstraints) {
    t.Fatalf("unexpected order\nexpected: %#v\nactual: %#v",
     tc.expectedConstraints, actual)
   }
  })
 }
}

func TestConstraintsString(t *testing.T) {
 cases := []struct {
  constraint string
  result     string
 }{
  {">= 1.0, < 1.2", ""},
  {"~> 1.0.7", ""},
 }

 for _, tc := range cases {
  c, err := NewConstraint(tc.constraint)
  if err != nil {
   t.Fatalf("err:
%s", err)
  }

  actual := c.String()
  expected := tc.result
  if expected == "" {
   expected = tc.constraint
  }

  if actual != expected {
   t.Fatalf("Constraint: %s\nExpected: %#v\nActual: %s",
    tc.constraint, expected, actual)
  }
 }
}
```

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```
package version

import (
 "bytes"
 "database/sql/driver"
 "fmt"
 "regexp"
 "strconv"
 "strings"
)

// The compiled regular expression used to test the validity of a version.
var (
 versionRegexp *regexp.Regexp
```

```
 semverRegexp  *regexp.Regexp
)

// The raw regular expression string used for testing the validity
// of a version.
const (
 VersionRegexpRaw string = `v?([0-9]+(\.[0-9]+)*?)` +
  `(-([0-9]+[0-9A-Za-z\-~]*(\.[0-9A-Za-z\-~]+)*)|(-?([A-Za-z\-~]+[0-9A-Za-z\-~]*(\.[0-9A-Za-z\-~]+)*)))?` +
  `(\+([0-9A-Za-z\-~]+(\.[0-9A-Za-z\-~]+)*))?` +
  `?`

 // SemverRegexpRaw requires a separator between version and prerelease
 SemverRegexpRaw string = `v?([0-9]+(\.[0-9]+)*?)` +
  `(-([0-9]+[0-9A-Za-z\-~]*(\.[0-9A-Za-z\-~]+)*)|(-([A-Za-z\-~]+[0-9A-Za-z\-~]*(\.[0-9A-Za-z\-~]+)*)))?` +
  `(\+([0-9A-Za-z\-~]+(\.[0-9A-Za-z\-~]+)*))?` +
  `?`
)

// Version represents a single version.
type Version struct {
 metadata string
 pre
   string
 segments []int64
 si       int
 original string
}

func init() {
 versionRegexp = regexp.MustCompile("^" + VersionRegexpRaw + "$")
 semverRegexp = regexp.MustCompile("^" + SemverRegexpRaw + "$")
}

// NewVersion parses the given version and returns a new
// Version.
func NewVersion(v string) (*Version, error) {
 return newVersion(v, versionRegexp)
}

// NewSemver parses the given version and returns a new
// Version that adheres strictly to SemVer specs
// https://semver.org/
func NewSemver(v string) (*Version, error) {
 return newVersion(v, semverRegexp)
}

func newVersion(v string, pattern *regexp.Regexp) (*Version, error) {
 matches := pattern.FindStringSubmatch(v)
```

```
 if matches == nil {
  return nil, fmt.Errorf("Malformed version: %s", v)
 }
 segmentsStr := strings.Split(matches[1], ".")
 segments := make([]int64, len(segmentsStr))
 for i, str := range segmentsStr {
  val, err := strconv.ParseInt(str, 10, 64)
  if err != nil {
   return nil, fmt.Errorf(
    "Error parsing version:
%s", err)
  }

  segments[i] = val
 }

 // Even though we could support more than three segments, if we
 // got less than three, pad it with 0s. This is to cover the basic
 // default usecase of semver, which is MAJOR.MINOR.PATCH at the minimum
 for i := len(segments); i < 3; i++ {
  segments = append(segments, 0)
 }

 pre := matches[7]
 if pre == "" {
  pre = matches[4]
 }

 return &Version{
  metadata: matches[10],
  pre:      pre,
  segments: segments,
  si:       len(segmentsStr),
  original: v,
 }, nil
}

// Must is a helper that wraps a call to a function returning (*Version, error)
// and panics if error is non-nil.
func Must(v *Version, err error) *Version {
 if err != nil {
  panic(err)
 }

 return v
}

// Compare compares this version to another version. This
```

```
// returns -1, 0, or 1 if this version is smaller, equal,
// or larger than the other version, respectively.
//
// If you want boolean results, use the LessThan, Equal,
// GreaterThan, GreaterThanOrEqual or LessThanOrEqual
 methods.
func (v *Version) Compare(other *Version) int {
 // A quick, efficient equality check
 if v.String() == other.String() {
  return 0
 }

 // If the segments are the same, we must compare on prerelease info
 if v.equalSegments(other) {
  preSelf := v.Prerelease()
  preOther := other.Prerelease()
  if preSelf == "" && preOther == "" {
   return 0
  }
  if preSelf == "" {
   return 1
  }
  if preOther == "" {
   return -1
  }

  return comparePrereleases(preSelf, preOther)
 }

 segmentsSelf := v.Segments64()
 segmentsOther := other.Segments64()
 // Get the highest specificity (hS), or if they're equal, just use segmentSelf length
 lenSelf := len(segmentsSelf)
 lenOther := len(segmentsOther)
 hS := lenSelf
 if lenSelf < lenOther {
  hS = lenOther
 }
 // Compare the segments
 // Because a constraint could have more/less specificity than the version it's
 // checking, we need to account for a lopsided or jagged comparison
 for i := 0; i < hS; i++ {
  if i > lenSelf-1 {
   //
 This means Self had the lower specificity
   // Check to see if the remaining segments in Other are all zeros
   if !allZero(segmentsOther[i:]) {
    // if not, it means that Other has to be greater than Self
```

```
    return -1
   }
   break
  } else if i > lenOther-1 {
   // this means Other had the lower specificity
   // Check to see if the remaining segments in Self are all zeros -
   if !allZero(segmentsSelf[i:]) {
    // if not, it means that Self has to be greater than Other
    return 1
   }
   break
  }
  lhs := segmentsSelf[i]
  rhs := segmentsOther[i]
  if lhs == rhs {
   continue
  } else if lhs < rhs {
   return -1
  }
  // Otherwis, rhs was > lhs, they're not equal
  return 1
 }

 // if we got this far, they're equal
 return 0
}

func (v *Version) equalSegments(other *Version) bool {
 segmentsSelf := v.Segments64()
 segmentsOther := other.Segments64()

 if len(segmentsSelf) != len(segmentsOther) {
  return false
 }
 for i, v := range segmentsSelf {
  if v != segmentsOther[i]
  {
   return false
  }
 }
 return true
}

func allZero(segs []int64) bool {
 for _, s := range segs {
  if s != 0 {
   return false
  }
```

```
 }
 return true
}

func comparePart(preSelf string, preOther string) int {
 if preSelf == preOther {
  return 0
 }

 var selfInt int64
 selfNumeric := true
 selfInt, err := strconv.ParseInt(preSelf, 10, 64)
 if err != nil {
  selfNumeric = false
 }

 var otherInt int64
 otherNumeric := true
 otherInt, err = strconv.ParseInt(preOther, 10, 64)
 if err != nil {
  otherNumeric = false
 }

 // if a part is empty, we use the other to decide
 if preSelf == "" {
  if otherNumeric {
   return -1
  }
  return 1
 }

 if preOther == "" {
  if selfNumeric {
   return 1
  }
  return -1
 }

 if selfNumeric && !otherNumeric {
  return -1
 } else if !selfNumeric && otherNumeric {
  return 1
 } else if !selfNumeric && !otherNumeric && preSelf > preOther {
  return 1
 } else if selfInt > otherInt {
  return 1
 }
```

```
 return -1
}

func comparePrereleases(v string, other string)
 int {
 // the same pre release!
 if v == other {
  return 0
 }

 // split both pre releases for analyse their parts
 selfPreReleaseMeta := strings.Split(v, ".")
 otherPreReleaseMeta := strings.Split(other, ".")

 selfPreReleaseLen := len(selfPreReleaseMeta)
 otherPreReleaseLen := len(otherPreReleaseMeta)

 biggestLen := otherPreReleaseLen
 if selfPreReleaseLen > otherPreReleaseLen {
  biggestLen = selfPreReleaseLen
 }

 // loop for parts to find the first difference
 for i := 0; i < biggestLen; i = i + 1 {
  partSelfPre := ""
  if i < selfPreReleaseLen {
   partSelfPre = selfPreReleaseMeta[i]
  }

  partOtherPre := ""
  if i < otherPreReleaseLen {
   partOtherPre = otherPreReleaseMeta[i]
  }

  compare := comparePart(partSelfPre, partOtherPre)
  // if parts are equals, continue the loop
  if compare != 0 {
   return compare
  }
 }

 return 0
}

// Core returns a new version constructed from only the MAJOR.MINOR.PATCH
// segments of the version, without prerelease or metadata.
func
```

```
 (v *Version) Core() *Version {
 segments := v.Segments64()
 segmentsOnly := fmt.Sprintf("%d.%d.%d", segments[0], segments[1], segments[2])
 return Must(NewVersion(segmentsOnly))
}

// Equal tests if two versions are equal.
func (v *Version) Equal(o *Version) bool {
 if v == nil || o == nil {
  return v == o
 }

 return v.Compare(o) == 0
}

// GreaterThan tests if this version is greater than another version.
func (v *Version) GreaterThan(o *Version) bool {
 return v.Compare(o) > 0
}

// GreaterThanOrEqual tests if this version is greater than or equal to another version.
func (v *Version) GreaterThanOrEqual(o *Version) bool {
 return v.Compare(o) >= 0
}

// LessThan tests if this version is less than another version.
func (v *Version) LessThan(o *Version) bool {
 return v.Compare(o) < 0
}

// LessThanOrEqual tests if this version is less than or equal to another version.
func (v *Version) LessThanOrEqual(o *Version) bool {
 return v.Compare(o) <= 0
}

// Metadata returns any metadata
 that was part of the version
// string.
//
// Metadata is anything that comes after the "+" in the version.
// For example, with "1.2.3+beta", the metadata is "beta".
func (v *Version) Metadata() string {
 return v.metadata
}

// Prerelease returns any prerelease data that is part of the version,
// or blank if there is no prerelease data.
//
```

```
// Prerelease information is anything that comes after the "-" in the
// version (but before any metadata). For example, with "1.2.3-beta",
// the prerelease information is "beta".
func (v *Version) Prerelease() string {
 return v.pre
}

// Segments returns the numeric segments of the version as a slice of ints.
//
// This excludes any metadata or pre-release information. For example,
// for a version "1.2.3-beta", segments will return a slice of
// 1, 2, 3.
func (v *Version) Segments() []int {
 segmentSlice := make([]int, len(v.segments))
 for i, v := range v.segments {
  segmentSlice[i] = int(v)
 }
 return segmentSlice
}

// Segments64 returns the
 numeric segments of the version as a slice of int64s.
//
// This excludes any metadata or pre-release information. For example,
// for a version "1.2.3-beta", segments will return a slice of
// 1, 2, 3.
func (v *Version) Segments64() []int64 {
 result := make([]int64, len(v.segments))
 copy(result, v.segments)
 return result
}

// String returns the full version string included pre-release
// and metadata information.
//
// This value is rebuilt according to the parsed segments and other
// information. Therefore, ambiguities in the version string such as
// prefixed zeroes (1.04.0 => 1.4.0), `v` prefix (v1.0.0 => 1.0.0), and
// missing parts (1.0 => 1.0.0) will be made into a canonicalized form
// as shown in the parenthesized examples.
func (v *Version) String() string {
 var buf bytes.Buffer
 fmtParts := make([]string, len(v.segments))
 for i, s := range v.segments {
  // We can ignore err here since we've pre-parsed the values in segments
  str := strconv.FormatInt(s, 10)
  fmtParts[i]
```

```
 = str
 }
 fmt.Fprintf(&buf, strings.Join(fmtParts, "."))
 if v.pre != "" {
  fmt.Fprintf(&buf, "-%s", v.pre)
 }
 if v.metadata != "" {
  fmt.Fprintf(&buf, "+%s", v.metadata)
 }

 return buf.String()
}

// Original returns the original parsed version as-is, including any
// potential whitespace, `v` prefix, etc.
func (v *Version) Original() string {
 return v.original
}

// UnmarshalText implements encoding.TextUnmarshaler interface.
func (v *Version) UnmarshalText(b []byte) error {
 temp, err := NewVersion(string(b))
 if err != nil {
  return err
 }

 *v = *temp

 return nil
}

// MarshalText implements encoding.TextMarshaler interface.
func (v *Version) MarshalText() ([]byte, error) {
 return []byte(v.String()), nil
}

// Scan implements the sql.Scanner interface.
func (v *Version) Scan(src interface{}) error {
 switch src := src.(type) {
 case string:
  return v.UnmarshalText([]byte(src))
 case nil:
  return nil
 default:
  return fmt.Errorf("cannot scan %T as Version", src)
 }
}
```

```
//
 Value implements the driver.Valuer interface.
func (v *Version) Value() (driver.Value, error) {
 return v.String(), nil
}
```

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1.3511 cast 1.7.1

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1.3512 charset-normalizer 3.4.1

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1.3513 structured-merge-diff 4.5.0

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1.3514 utils 0.0.0-20241210054802-24370beab758

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1.3515 easyjson 0.9.0

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1.3518 common 0.61.0

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1.3540 go-compute-metadata 0.2.3

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}
```

```
func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
```

```
 // TODO: Use resp.
 _ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
```

```
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
```

```
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
```

```
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
 }
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
```

```
// - It may require correct/in-range
values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.SetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
}
resp, err := c.SetIamPolicy(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown
in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

```
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package compute

import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "math"
 "net/http"
 "net/url"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete          []gax.CallOption
 Get             []gax.CallOption
 GetIamPolicy    []gax.CallOption
```

```
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete:            []gax.CallOption{},
  Get:               []gax.CallOption{},
  GetIamPolicy:      []gax.CallOption{},
  Insert:            []gax.CallOption{},
  List:              []gax.CallOption{},
  SetIamPolicy:      []gax.CallOption{},
  TestIamPermissions: []gax.CallOption{},
 }
}

//
 internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicensesClient
 is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
```

```
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
//
 Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
 exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}
```

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method
 to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud
 Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

```
 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption)
 (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
```

```
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", versionGo()}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection()
 *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type",
```

```
"application/json"))
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:
     c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
```

```
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
```

```
  return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
 exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type",
 "application/json"))
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
```

```
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return
nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())
```

```
params := url.Values{}
if req != nil && req.RequestId != nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v", "project",
url.QueryEscape(req.GetProject())))

headers
:= buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return
```

```
 nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true,
 DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
  }
  if req != nil && req.MaxResults != nil {
   params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
```

```
 }
 if req != nil && req.OrderBy != nil {
  params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req != nil && req.PageToken != nil {
  params.Add("pageToken", fmt.Sprintf("%v",
req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return
maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
```

```
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial:
 true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
```

```
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings)
 error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest,
```

```
 opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown:
 true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
```

```
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
 items    []*computepb.License
 pageInfo *iterator.PageInfo
 nextFunc func() error

 //
 Response is the raw response for the current page.
 // It must be cast to the RPC response type.
 // Calling Next() or InternalFetch() updates this value.
 Response interface{}

 // InternalFetch is for use by the Google Cloud Libraries only.
 // It is not part of the stable interface of this package.
 //
 // InternalFetch returns results from a single call to the underlying RPC.
 // The number of results is no greater than pageSize.
 // If there are no more results, nextPageToken is empty and err is nil.
 InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
 return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator)
 Next() (*computepb.License, error) {
 var item *computepb.License
 if err := it.nextFunc(); err != nil {
```

```
 return item, err
 }
 item = it.items[0]
 it.items = it.items[1:]
 return item, nil
}

func (it *LicenseIterator) bufLen() int {
 return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
 b := it.items
 it.items = nil
 return b
}
```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "net/http"
 "net/url"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
```

```
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get              []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
 return &LicenseCodesCallOptions{
  Get:              []gax.CallOption{},
  TestIamPermissions: []gax.CallOption{},
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
 (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
 return c.internalClient.Close()
```

```
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context,
 req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions
```

```
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx,
 clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go",
 versionGo()}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
```

```
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption)
 (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err
 != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()
```

```
  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq,
 err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
```

```
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path
 != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
```

1.3541 x-xerrors 0.0.0-20220907171357-04be3eba64a2

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1.3542 markupsafe 3.0.2

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1.3543 x-sync 0.1.0

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* /opt/cola/permits/2308625768_1736175281.7391634/0/sailfishos-mirror-markupsafe-2-0-1-0-g7666dff-1-tar-gz/sailfishos-mirror-markupsafe-dfb5bc1/LICENSE.rst
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1.3545 swag 0.22.3

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1.3546 structured-merge-diff 4.2.3

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1.3552 protobuf-go 1.30.0

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1.3553 dario-mergo 0.3.12

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

1.3554 kube-openapi 0.0.0-20230501164219-8b0f38b5fd1f

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
# This source code was written by the Go contributors.
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# visible at https://tip.golang.org/CONTRIBUTORS.
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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
 license := License{Name: "the name", URL: "the url"}
 const licenseJSON = `{"name":"the name","url":"the url"}`
 const licenseYAML = "name: the name\nurl: the url\n"

 assertSerializeJSON(t, license, licenseJSON)
 assertParsesJSON(t, licenseJSON, license)
}
```

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1.3555 kubernetes-yaml 1.3.0

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1.3557 x-sync 0.8.0

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1.3558 x-sync 0.7.0

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---
name: github.com/cloudflare/circl/internal/conv
version: v1.3.7
type: go
summary:
homepage: https://pkg.go.dev/github.com/cloudflare/circl/internal/conv
license: other
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name: github.com/go-git/go-git/v5/config
version: v5.12.0
type: go
summary: Package config contains the abstraction of multiple config files
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---
name: github.com/go-git/gcfg/token
version: v1.5.1-0.20230307220236-3a3c6141e376
type: go
summary: Package token defines constants representing the lexical tokens of the gcfg
 configuration syntax and basic operations on tokens (printing, predicates).
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name: github.com/cloudflare/circl/sign/ed25519
version: v1.3.7
type: go
summary: Package ed25519 implements Ed25519 signature scheme as described in RFC-8032.
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notices: []

---

name: github.com/ProtonMail/go-crypto/ocb

version: v1.0.0

type: go

summary: 'Package ocb provides an implementation of the OCB (offset codebook) mode
 of operation, as described in RFC-7253 of the IRTF and in Rogaway, Bellare, Black
 and Krovetz - OCB: A BLOCK-CIPHER MODE OF OPERATION FOR EFFICIENT AUTHENTICATED
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name: golang.org/x/crypto/ssh/knownhosts
version: v0.21.0
type: go
summary: Package knownhosts implements a parser for the OpenSSH known_hosts host key
database, and provides utility functions for writing OpenSSH compliant known_hosts
files.
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version: v43.0.0
type: go
summary: Package github provides a client for using the GitHub API.
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name: github.com/emirpasic/gods/lists
version: v1.18.1
type: go
summary: Package lists provides an abstract List interface.
homepage: https://pkg.go.dev/github.com/emirpasic/gods/lists
license: other
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name: github.com/ProtonMail/go-crypto/openpgp/ecdh
version: v1.0.0
type: go
summary: Package ecdh implements ECDH encryption, suitable for OpenPGP, as specified
in RFC 6637, section 8.
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name: golang.org/x/crypto/openpgp/elgamal
version: v0.21.0
type: go
summary: Package elgamal implements ElGamal encryption, suitable for OpenPGP, as specified
 in "A Public-Key Cryptosystem and a Signature Scheme Based on Discrete Logarithms,"
 IEEE Transactions on Information Theory, v.
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version: v5.12.0
type: go
summary: Package index implements encoding and decoding of index format files.
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notices: []
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version: v1.0.0
type: go
summary: Package errors contains common error types for the OpenPGP packages.
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version: v5.12.0
type: go
summary:
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---
name: github.com/go-git/go-git/v5/plumbing/format/pktline
version: v5.12.0
type: go
summary: Package pktline implements reading payloads form pkt-lines and encoding pkt-lines
from payloads.
homepage: https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/format/pktline
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version: v0.21.0
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summary: Package cobra is a commander providing a simple interface to create powerful
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---
name: github.com/go-git/go-git/v5/plumbing/format/objfile
version: v5.12.0
type: go
summary: Package objfile implements encoding and decoding of object files.
homepage: https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/format/objfile
license: apache-2.0
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summary:
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//

```
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package github

import (
 "context"
 "fmt"
)

// LicensesService handles communication with the license related
// methods of the GitHub API.
//
// GitHub API docs: https://docs.github.com/en/free-pro-team@latest/rest/reference/licenses/
type LicensesService service

// RepositoryLicense represents the license for a repository.
type RepositoryLicense struct {
 Name *string `json:"name,omitempty"`
 Path *string `json:"path,omitempty"`

 SHA         *string  `json:"sha,omitempty"`
 Size        *int     `json:"size,omitempty"`
 URL         *string  `json:"url,omitempty"`
 HTMLURL     *string  `json:"html_url,omitempty"`
 GitURL      *string  `json:"git_url,omitempty"`
 DownloadURL *string  `json:"download_url,omitempty"`
 Type        *string  `json:"type,omitempty"`
 Content     *string  `json:"content,omitempty"`
 Encoding
    *string  `json:"encoding,omitempty"`
 License     *License `json:"license,omitempty"`
}

func (l RepositoryLicense) String() string {
 return Stringify(l)
}

// License represents an open source license.
type License struct {
 Key  *string `json:"key,omitempty"`
 Name *string `json:"name,omitempty"`
 URL  *string `json:"url,omitempty"`

 SPDXID         *string   `json:"spdx_id,omitempty"`
 HTMLURL        *string   `json:"html_url,omitempty"`
 Featured       *bool     `json:"featured,omitempty"`
 Description    *string   `json:"description,omitempty"`
```

```
 Implementation *string   `json:"implementation,omitempty"`
 Permissions    *[]string `json:"permissions,omitempty"`
 Conditions     *[]string `json:"conditions,omitempty"`
 Limitations    *[]string `json:"limitations,omitempty"`
 Body           *string   `json:"body,omitempty"`
}

func (l License) String() string {
 return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://docs.github.com/en/free-pro-team@latest/rest/reference/licenses/#list-all-licenses
func
 (s *LicensesService) List(ctx context.Context) ([]*License, *Response, error) {
 req, err := s.client.NewRequest("GET", "licenses", nil)
 if err != nil {
  return nil, nil, err
 }

 var licenses []*License
 resp, err := s.client.Do(ctx, req, &licenses)
 if err != nil {
  return nil, resp, err
 }

 return licenses, resp, nil
}

// Get extended metadata for one license.
//
// GitHub API docs: https://docs.github.com/en/free-pro-team@latest/rest/reference/licenses/#get-a-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
 u := fmt.Sprintf("licenses/%s", licenseName)

 req, err := s.client.NewRequest("GET", u, nil)
 if err != nil {
  return nil, nil, err
 }

 license := new(License)
 resp, err := s.client.Do(ctx, req, license)
 if err != nil {
  return nil, resp, err
 }

 return license, resp, nil
```

}
---
name: github.com/go-git/go-git/v5/plumbing/cache
version: v5.12.0
type: go
summary:
homepage: https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/cache
license: apache-2.0
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version: v1.0.0
type: go
summary: Package keywrap is an implementation of the RFC 3394 AES key wrapping algorithm.
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name: github.com/cloudflare/circl/dh/x25519
version: v1.3.7
type: go
summary: Package x25519 provides Diffie-Hellman functions as specified in RFC-7748.
homepage: https://pkg.go.dev/github.com/cloudflare/circl/dh/x25519
license: other
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version: v1.3.7
type: go
summary: Package sign provides unified interfaces for signature schemes.
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name: github.com/ProtonMail/go-crypto/openpgp/elgamal
version: v1.0.0
type: go
summary: Package elgamal implements ElGamal encryption, suitable for OpenPGP, as specified
in "A Public-Key Cryptosystem and a Signature Scheme Based on Discrete Logarithms,"
IEEE Transactions on Information Theory, v.
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---
name: github.com/go-git/go-git/v5/plumbing/protocol/packp/sideband
version: v5.12.0
type: go
summary: Package sideband implements a sideband mutiplex/demultiplexer
homepage: https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/protocol/packp/sideband
license: apache-2.0
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name: github.com/go-git/go-git/v5/plumbing/revlist
version: v5.12.0
type: go
summary: Package revlist provides support to access the ancestors of commits, in a
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version: v5.12.0
type: go
summary: Package diff implements line oriented diffs, similar to the ancient Unix
 diff command.
homepage: https://pkg.go.dev/github.com/go-git/go-git/v5/utils/diff
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version: v5.12.0
type: go
summary: Package client contains helper function to deal with the different client
protocols.
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version: v0.19.0
type: go
summary: Package internal contains support packages for oauth2 package.
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name: github.com/ProtonMail/go-crypto/openpgp/eddsa
version: v1.0.0
type: go
summary: Package eddsa implements EdDSA signature, suitable for OpenPGP, as specified
in https://datatracker.ietf.org/doc/html/draft-ietf-openpgp-crypto-refresh-06#section-13.7
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name: github.com/ProtonMail/go-crypto/openpgp/internal/ecc

version: v1.0.0
type: go
summary: Package ecc implements a generic interface for ECDH, ECDSA, and EdDSA.
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name: github.com/go-git/go-git/v5/plumbing/format/config
version: v5.12.0
type: go
summary: Package config implements encoding and decoding of git config files.
homepage: https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/format/config
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name: github.com/go-git/go-git/v5/storage/filesystem
version: v5.12.0
type: go
summary: Package filesystem is a storage backend base on filesystems
homepage: https://pkg.go.dev/github.com/go-git/go-git/v5/storage/filesystem
license: apache-2.0
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notices: []
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name: github.com/go-git/go-git/v5/utils/binary
version: v5.12.0
type: go
summary: Package binary implements syntax-sugar functions on top of the standard library
binary package
homepage: https://pkg.go.dev/github.com/go-git/go-git/v5/utils/binary
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name: golang.org/x/crypto/openpgp/packet
version: v0.21.0
type: go
summary: Package packet implements parsing and serialization of OpenPGP packets, as
specified in RFC 4880.
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name: github.com/ProtonMail/go-crypto/openpgp/internal/encoding
version: v1.0.0
type: go
summary: Package encoding implements openpgp packet field encodings as specified in
RFC 4880 and 6637.
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name: github.com/emirpasic/gods/trees
version: v1.18.1
type: go
summary: Package trees provides an abstract Tree interface.
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notices: []
---
name: github.com/emirpasic/gods/containers
version: v1.18.1
type: go
summary: Package containers provides core interfaces and functions for data structures.
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name: golang.org/x/crypto/ssh/agent
version: v0.21.0
type: go
summary: Package agent implements the ssh-agent protocol, and provides both a client
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version: v5.12.0
type: go
summary: Package common implements the git pack protocol with a pluggable transport.
homepage: https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/transport/internal/common
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name: github.com/cloudflare/circl/sign/ed448
version: v1.3.7
type: go
summary: Package ed448 implements Ed448 signature scheme as described in RFC-8032.
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notices: []
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name: github.com/go-git/go-git/v5/utils/merkletrie

version: v5.12.0
type: go
summary: Package merkletrie provides support for n-ary trees that are at the same
 time Merkle trees and Radix trees (tries).
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 text: Apache License Version 2.0, see LICENSE
notices: []
---
name: golang.org/x/sys/execabs
version: v0.18.0
type: go
summary: Package execabs is a drop-in replacement for os/exec that requires PATH lookups
 to find absolute paths.
homepage: https://pkg.go.dev/golang.org/x/sys/execabs
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name: golang.org/x/net/context
version: v0.23.0
type: go
summary: Package context defines the Context type, which carries deadlines, cancelation
 signals, and other request-scoped values across API boundaries and between processes.
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name: golang.org/x/crypto/openpgp/s2k
version: v0.21.0
type: go
summary: Package s2k implements the various OpenPGP string-to-key transforms as specified
in RFC 4800 section 3.7.1.
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name: github.com/go-git/gcfg/scanner
version: v1.5.1-0.20230307220236-3a3c6141e376
type: go
summary: Package scanner implements a scanner for gcfg configuration text.
homepage: https://pkg.go.dev/github.com/go-git/gcfg/scanner
license: other
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 text: |
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name: github.com/golang/groupcache/lru
version: v0.0.0-20210331224755-41bb18bfe9da
type: go
summary: Package lru implements an LRU cache.
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---
name: github.com/go-git/go-git/v5/plumbing/storer
version: v5.12.0
type: go
summary: Package storer defines the interfaces to store objects, references, etc.
homepage: https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/storer
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---
name: dario.cat/mergo
version: v1.0.0
type: go
summary: A helper to merge structs and maps in Golang.
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notices: []
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version: v5.12.0
type: go
summary:
homepage: https://pkg.go.dev/github.com/go-git/go-git/v5/utils/merkletrie/internal/frame
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version: v1.3.7
type: go
summary: Package sha3 implements the SHA-3 fixed-output-length hash functions and
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version: v1.5.1-0.20230307220236-3a3c6141e376
type: go
summary: Package types defines helpers for type conversions.
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name: golang.org/x/crypto/argon2
version: v0.21.0
type: go
summary: Package argon2 implements the key derivation function Argon2.
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version: v0.21.0
type: go
summary: Package blake2b implements the BLAKE2b hash algorithm defined by RFC 7693
 and the extendable output function (XOF) BLAKE2Xb.
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---
name: github.com/pjbgf/sha1cd/ubc
version: v0.3.0
type: go
summary: ubc package provides ways for SHA1 blocks to be checked for Unavoidable Bit
Conditions that arise from crypto analysis attacks.
homepage: https://pkg.go.dev/github.com/pjbgf/sha1cd/ubc
license: apache-2.0
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- sources: sha1cd/LICENSE
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Tor Arvid Lund <torarvid@gmail.com>
Zac Bergquist <zbergquist99@gmail.com>
---
name: github.com/ProtonMail/go-crypto/eax
version: v1.0.0
type: go
summary: 'Package eax provides an implementation of the EAX (encrypt-authenticate-translate)
mode of operation, as described in Bellare, Rogaway, and Wagner "THE EAX MODE OF
OPERATION: A TWO-PASS AUTHENTICATED-ENCRYPTION SCHEME OPTIMIZED FOR SIMPLICITY
AND

EFFICIENCY." In FSE"04, volume 3017 of LNCS, 2004'
homepage: https://pkg.go.dev/github.com/ProtonMail/go-crypto/eax
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name: github.com/go-git/go-git/v5/plumbing/hash
version: v5.12.0
type: go
summary: package hash provides a way for managing the underlying hash implementations
used across go-git.
homepage: https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/hash
license: apache-2.0
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notices: []
---
name: github.com/emirpasic/gods/utils
version: v1.18.1

type: go
summary: Package utils provides common utility functions.
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name: gopkg.in/warnings.v0
version: v0.1.2
type: go
summary: Package warnings implements error handling with non-fatal errors (warnings).
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name: github.com/google/go-querystring/query
version: v1.1.0
type: go
summary: Package query implements encoding of structs into URL query parameters.
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name: github.com/pkg/errors
version: v0.9.1
type: go
summary: Package errors provides simple error handling primitives.
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name: golang.org/x/oauth2
version: v0.19.0
type: go
summary: Package oauth2 provides support for making OAuth2 authorized and authenticated
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type: go
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name: golang.org/x/net/internal/socks
version: v0.23.0
type: go
summary: Package socks provides a SOCKS version 5 client implementation.
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version: v0.0.0-20150711004518-d14ea06fba99
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summary: Package ctxio provides io.Reader and io.Writer wrappers that respect context.Contexts.
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type: go
summary: Package object contains implementations of all Git objects and utility functions
 to work with them.
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version: v0.21.0
type: go
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name: github.com/ProtonMail/go-crypto/openpgp
version: v1.0.0
type: go
summary: Package openpgp implements high level operations on OpenPGP messages.
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---
name: golang.org/x/crypto/curve25519
version: v0.21.0
type: go
summary: Package curve25519 provides an implementation of the X25519 function, which
 performs scalar multiplication on the elliptic curve known as Curve25519.
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---

name: github.com/ProtonMail/go-crypto/openpgp/s2k
version: v1.0.0
type: go
summary: Package s2k implements the various OpenPGP string-to-key transforms as specified
 in RFC 4800 section 3.7.1, and Argon2 specified in draft-ietf-openpgp-crypto-refresh-08
 section 3.7.1.4.
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summary: package plumbing implement the core interfaces and structs used by go-git
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summary: Package armor implements OpenPGP ASCII Armor, see RFC 4880.
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version: v1.2.0
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summary: Package ssh_config provides tools for manipulating SSH config files.
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version: v0.21.0
type: go
summary: Package cast5 implements CAST5, as defined in RFC 2144.
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name: github.com/ProtonMail/go-crypto/openpgp/packet
version: v1.0.0
type: go
summary: Package packet implements parsing and serialization of OpenPGP packets, as
specified in RFC 4880.
homepage: https://pkg.go.dev/github.com/ProtonMail/go-crypto/openpgp/packet
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name: github.com/cloudflare/circl/dh/x448
version: v1.3.7
type: go
summary: Package x448 provides Diffie-Hellman functions as specified in RFC-7748.
homepage: https://pkg.go.dev/github.com/cloudflare/circl/dh/x448
license: other
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notices: []
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name: github.com/pjbgf/sha1cd/internal
version: v0.3.0
type: go
summary:
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notices: []
---
name: golang.org/x/net/proxy
version: v0.23.0

type: go
summary: Package proxy provides support for a variety of protocols to proxy network
 data.
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---
name: github.com/cloudflare/circl/math
version: v1.3.7
type: go
summary: Package math provides some utility functions for big integers.
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name: github.com/skeema/knownhosts
version: v1.2.2
type: go
summary: Package knownhosts is a thin wrapper around golang.org/x/crypto/ssh/knownhosts,
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name: github.com/emirpasic/gods/trees/binaryheap
version: v1.18.1
type: go
summary: Package binaryheap implements a binary heap backed by array list.
homepage: https://pkg.go.dev/github.com/emirpasic/gods/trees/binaryheap
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name: github.com/go-git/gcfg
version: v1.5.1-0.20230307220236-3a3c6141e376
type: go
summary: Package gcfg reads "INI-style" text-based configuration files with "name=value"
pairs grouped into sections (gcfg files).
homepage: https://pkg.go.dev/github.com/go-git/gcfg
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---
name: github.com/pjbgf/sha1cd
version: v0.3.0
type: go
summary: Package sha1cd implements collision detection based on the whitepaper Counter-cryptanalysis
from Marc Stevens.
homepage: https://pkg.go.dev/github.com/pjbgf/sha1cd
license: apache-2.0
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version: v1.3.7
type: go
summary: Package mlsbset provides a constant-time exponentiation method with precomputation.
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version: v5.12.0
type: go
summary: Package packfile implements encoding and decoding of packfile format.
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---
name: golang.org/x/crypto/sha3
version: v0.21.0

type: go
summary: Package sha3 implements the SHA-3 fixed-output-length hash functions and
 the SHAKE variable-output-length hash functions defined by FIPS-202.
homepage: https://pkg.go.dev/golang.org/x/crypto/sha3
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name: github.com/ProtonMail/go-crypto/bitcurves
version: v1.0.0
type: go
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name: github.com/cyphar/filepath-securejoin
version: v0.2.4
type: go
summary: Package securejoin is an implementation of the hopefully-soon-to-be-included
SecureJoin helper that is meant to be part of the "path/filepath" package.
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name: github.com/go-git/go-git/v5/plumbing/protocol/packp/capability
version: v5.12.0
type: go
summary: Package capability defines the server and client capabilities.
homepage: https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/protocol/packp/capability
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---
name: github.com/cloudflare/circl/ecc/goldilocks
version: v1.3.7
type: go
summary: Package goldilocks provides elliptic curve operations over the goldilocks
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version: v5.12.0
type: go
summary: Package http implements the HTTP transport protocol.
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name: github.com/spf13/pflag
version: v1.0.5
type: go
summary: Package pflag is a drop-in replacement for Go's flag package, implementing
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notices: []
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name: github.com/go-git/go-git/v5/plumbing/transport/git
version: v5.12.0
type: go
summary: Package git implements the git transport protocol.
homepage: https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/transport/git
license: apache-2.0
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version: v1.0.0
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summary: Package armor implements OpenPGP ASCII Armor, see RFC 4880.
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name: github.com/go-git/go-git/v5/plumbing/format/gitignore
version: v5.12.0
type: go
summary: Package gitignore implements matching file system paths to gitignore patterns
 that can be automatically read from a git repository tree in the order of definition
 priorities.
homepage: https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/format/gitignore
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name: github.com/sergi/go-diff/diffmatchpatch
version: v1.3.2-0.20230802210424-5b0b94c5c0d3
type: go
summary: Package diffmatchpatch offers robust algorithms to perform the operations
 required for synchronizing plain text.
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1.3560 dario-mergo 1.0.1

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

1.3561 otel-exporters-otlp-otlptrace 1.19.0

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1.3562 go-crypto 1.0.0

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1.3563 filepath-securejoin 0.3.4

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1.3564 kubernetes-utils 0.0.0-20230726121419-3b25d923346b

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1.3566 heredoc 1.0.0

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1.3569 jsonreference 0.20.2

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1.3571 kubernetes-yaml 1.4.0

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```
package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
 SevNewDefault  = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not
present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool
```

// The following statuses are used for selecting/filtering notifications
SevAll = "all" // show all statuses
)
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==========
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//
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 URL string `json:"url,omitempty"`
}
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==========
The common/types/pb/equal.go modification of proto.Equal logic
==========
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1.3576 otel-metric 1.24.0

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1.3578 protobuf-go 1.34.2

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1.3581 dario-mergo 0.3.6

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

1.3582 cbor 2.7.0

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1.3583 contrib-instrumentation-net-http-otelhttp 0.53.0

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1.3584 kustomize-api 0.17.2

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```
package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
```

```
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
 SevNewDefault  = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not
present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

 // The following statuses are used for selecting/filtering notifications
 SevAll = "all" // show all statuses
)
```

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==========
The common/types/pb/equal.go modification of proto.Equal logic
==========
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//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
}
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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==========
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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

1.3588 swag 0.22.4

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1.3591 kubernetes-yaml 1.2.0

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1.3592 jsonpatch 4.12.0

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1.3593 filepath-securejoin 0.2.4

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1.3594 proto-otlp 1.0.0

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1.3595 otel-metric 1.28.0

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1.3596 dario-mergo 0.3.13

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

1.3597 otel-exporters-otlp-otlptrace-otlptracegrpc 1.19.0

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1.3598 genproto-googleapis-rpc 0.0.0-20240701130421-f6361c86f094

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1.3599 otel-trace 1.24.0

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1.3601 contrib-instrumentation-google.golang.org-grpc-otelgrpc 0.46.0

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1.3602 otel-trace 1.28.0

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package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete          []gax.CallOption
 Get             []gax.CallOption
 GetIamPolicy    []gax.CallOption
 Insert          []gax.CallOption
 List            []gax.CallOption
```

```
 SetIamPolicy       []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier:
 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
```

```
  },
  SetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  TestIamPermissions:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
 }
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest,
 ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}
```

```
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy
 gets the access control policy for a resource. May be empty if no such policy or resource exists. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like
```

Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution
 This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
//
 The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
```

```
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
```

```
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
//
 Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers
 := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
```

```
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if
e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
```

```
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts
 = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
```

```
// GetIamPolicy gets the access control policy for a resource.
 May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party
partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers
 := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()
```

```
 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if
e != nil {
 return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v", "project",
```

```
url.QueryEscape(req.GetProject())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err !=
nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
```

```
 }
 return op, nil
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true,
 DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
  }
  if req != nil && req.MaxResults != nil {
   params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
  }
  if req != nil && req.OrderBy != nil {
   params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
  }
  if req != nil && req.PageToken != nil {
   params.Add("pageToken", fmt.Sprintf("%v",
req.GetPageToken()))
  }
  if req != nil && req.ReturnPartialSuccess != nil {
   params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
  }
```

```
 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return
err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
```

```
  }
  it.items = append(it.items, items...)
  return nextPageToken, nil
 }

 it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
 it.pageInfo.MaxSize = int(req.GetMaxResults())
 it.pageInfo.Token = req.GetPageToken()

 return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial:
 true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path
 != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
```

```
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
 error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
```

```
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e
 := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
```

```
 }
 return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
 items    []*computepb.License
 pageInfo *iterator.PageInfo
 nextFunc func() error

 // Response is the raw response for the current page.
 // It
 must be cast to the RPC response type.
 // Calling Next() or InternalFetch() updates this value.
 Response interface{}

 // InternalFetch is for use by the Google Cloud Libraries only.
 // It is not part of the stable interface of this package.
 //
 // InternalFetch returns results from a single call to the underlying RPC.
 // The number of results is no greater than pageSize.
 // If there are no more results, nextPageToken is empty and err is nil.
 InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
 return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
 var item *computepb.License
 if
 err := it.nextFunc(); err != nil {
  return item, err
 }
 item = it.items[0]
 it.items = it.items[1:]
 return item, nil
}

func (it *LicenseIterator) bufLen() int {
 return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
```

```
 b := it.items
 it.items = nil
 return b
}
```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
```

```
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.DeleteLicenseRequest{
 //
TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
}
op, err := c.Delete(ctx, req)
if err != nil {
 // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
 // TODO: Handle error.
}
}

func ExampleLicensesClient_Get() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
}
resp,
err := c.Get(ctx, req)
if err != nil {
 // TODO: Handle error.
```

```
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
```

```
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
 }
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range
```

```
 values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown
 in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
// Copyright 2023 Google LLC
//
```

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package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get              []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
 return &LicenseCodesCallOptions{
  Get: []gax.CallOption{
```

```
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google
 Compute Engine API.
type internalLicenseCodesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func
 (c *LicenseCodesClient) Close() error {
 return c.internalClient.Close()
```

```
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption)
 (*computepb.LicenseCode, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions
```

```
}

//
 NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
```

```
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return
 a specified license code. License codes are mirrored across all projects that have permissions to read the License
Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()
```

```
  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by
 third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
```

```
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
```

```
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

1.3604 kubernetes-utils 0.0.0-20240711033017-18e509b52bc8

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1.3605 protobuf 1.5.4

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1.3606 otel-trace 1.19.0

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1.3607 contrib-instrumentation-net-http-otelhttp 0.45.0

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1.3608 google-cloud-go-storage 1.30.1

1.3608.1 Available under license :

```
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "math"
 "net/http"
 "net/url"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)
```

```
var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete:            []gax.CallOption{},
  Get:               []gax.CallOption{},
  GetIamPolicy:      []gax.CallOption{},
  Insert:            []gax.CallOption{},
  List:              []gax.CallOption{},
  SetIamPolicy:      []gax.CallOption{},
  TestIamPermissions: []gax.CallOption{},
 }
}

//
 internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicensesClient
 is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
```

```
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
//
 Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
```

exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method
 to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud
 Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

```
 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption)
 (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
```

```
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", versionGo()}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection()
 *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }
```

```
 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type",
 "application/json"))
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
```

```
  c:
      c.operationClient,
  proto:   resp,
  project: req.GetProject(),
  },
 }
 return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }
```

```
  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
 exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type",
 "application/json"))
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
```

```
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return
 nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
```

```
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v", "project",
url.QueryEscape(req.GetProject())))

 headers
 := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
```

```
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return
nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true,
 DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())
```

```
 params := url.Values{}
 if req != nil && req.Filter != nil {
  params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
 }
 if req != nil && req.MaxResults != nil {
  params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
 }
 if req != nil && req.OrderBy != nil {
  params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req != nil && req.PageToken != nil {
  params.Add("pageToken", fmt.Sprintf("%v",
req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }
```

```
  if err := unm.Unmarshal(buf, resp); err != nil {
   return
maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial:
 true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())
```

```
 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings)
 error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
```

```
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest,
 opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown:
 true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()
```

```
  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
 items    []*computepb.License
 pageInfo *iterator.PageInfo
 nextFunc func() error

 //
 Response is the raw response for the current page.
 // It must be cast to the RPC response type.
 // Calling Next() or InternalFetch() updates this value.
 Response interface{}

 // InternalFetch is for use by the Google Cloud Libraries only.
 // It is not part of the stable interface of this package.
 //
 // InternalFetch returns results from a single call to the underlying RPC.
 // The number of results is no greater than pageSize.
 // If there are no more results, nextPageToken is empty and err is nil.
 InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
 return it.pageInfo
}
```

```
// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator)
 Next() (*computepb.License, error) {
 var item *computepb.License
 if err := it.nextFunc(); err != nil {
  return item, err
 }
 item = it.items[0]
 it.items = it.items[1:]
 return item, nil
}

func (it *LicenseIterator) bufLen() int {
 return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
 b := it.items
 it.items = nil
 return b
}
```

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```
// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "net/http"
 "net/url"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
```

```
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get              []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
 return &LicenseCodesCallOptions{
  Get:              []gax.CallOption{},
  TestIamPermissions: []gax.CallOption{},
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
 (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}
```

```
// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context,
 req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client
```

```
 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx,
 clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go",
 versionGo()}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}
```

```
// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption)
 (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err
 != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers
```

```
  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq,
 err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())
```

```
 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path
 != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
```

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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
```

```
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.DeleteLicenseRequest{
 //
TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
}
op, err := c.Delete(ctx, req)
if err != nil {
 // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
 // TODO: Handle error.
}
}

func ExampleLicensesClient_Get() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
}
resp,
err := c.Get(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
```

```
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
```

```
 // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
 }
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range
 values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
```

```
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown
 in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
```

```
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

1.3609 camelcase 1.0.0

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1.3610 json 0.0.0-20220713155537-f223a00ba0e2

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1.3611 appengine 1.6.7

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1.3612 reference 0.5.0

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1.3613 s2a-go 0.1.4

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1.3625 send/node_modules/ms 2.1.3

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1.3628 knownhosts 1.2.1

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

1.3631 multierr 1.11.0

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1.3638 pynacl 1.3.0

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1.3656 bbolt 1.3.10

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1.3657 otel-metric 1.20.0

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1.3658 channels 1.1.0

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1.3659 kubernetes-client 6.5.1

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1.3661 kubernetes-component-base 0.30.0

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* /opt/cola/permits/2308723816_1736184592.9495058/0/camel-ldap-3-4-6-sources-jar/org/apache/camel/component/ldap/LdapEndpoint.java
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1.3668 spdystream 0.2.0

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module _ // Auto generated by https://github.com/bwplotka/bingo. DO NOT EDIT

go 1.16

require github.com/efficientgo/tools/copyright v0.0.0-20210326193628-425a09c04e05
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1.3675 dropwizard-metrics-graphite 2.1.11

1.3675.1 Available under license :

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1.3676 go-grpc-middleware 1.3.0

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Manifest-Version: 1.0
Bundle-Description: The RabbitMQ Java client library allows Java appli
cations to interface with RabbitMQ.
Implementation-Title: RabbitMQ Java Client
Automatic-Module-Name: com.rabbitmq.client
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html, http
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PL/2.0/
Bundle-SymbolicName: com.rabbitmq.client
Implementation-Version: 5.20.0
Bnd-LastModified: 1698243701289
Bundle-ManifestVersion: 2
Specification-Vendor: AMQP Working Group (www.amqp.org)
Specification-Title: AMQP
Bundle-DocURL: https://www.rabbitmq.com
Bundle-Vendor: VMware, Inc. or its affiliates.
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Tool: Bnd-6.3.1.202206071316
Implementation-Vendor: VMware, Inc. or its affiliates.
Export-Package: com.rabbitmq.client;uses:="com.rabbitmq.client.impl,co
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om.rabbitmq.client";version="5.20.0",com.rabbitmq.utility;version="5.
20.0"
Bundle-Name: RabbitMQ Java Client
Bundle-Version: 5.20.0
Build-Jdk-Spec: 1.8
Created-By: Apache Maven Bundle Plugin 5.1.9
Implementation-URL: https://www.rabbitmq.com
Specification-Version: 0.9.1
```

Found in path(s):
* /opt/cola/permits/2308723640_1736184302.609947/0/amqp-client-5-20-0-3-jar/META-INF/MANIFEST.MF

1.3683 zap-exp 1.21.0

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1.3684 otel-exporters-otlp-otlptrace-otlptracegrpc 1.20.0

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1.3685 dropwizard-validation 2.1.11

1.3685.1 Available under license :

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1.3686 procfs 0.11.1

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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1.3687 codegangsta-cli 1.22.4

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1.3688 pyasn1 0.4.8

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ASN.1 library for Python
==========

.. toctree::
  :maxdepth: 1

Abstract Syntax Notation One (`ASN.1
<http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x>`_) is a
technology for exchanging structured data in a universally understood,
hardware agnostic way. Many industrial, security and telephony
applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.org/project/pyasn1/>`_ library implements
ASN.1 support in pure-Python.

What is ASN.1

ASN.1 is a large, arguably over-engineered and extremely old data modelling and
serialisation tool. It is probably among the first serialisation protocols in
the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first
electronic mail (known as X.400). Later on if was split off the e-mail application
and become a stand-alone tech still being actively supported by its designers
and
 widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the
first, unsuccessful, version of the Internet. You can read many interesting
`discussions <https://news.ycombinator.com/item?id=8871453>`_ on that topic.

In the following years, generations of software engineers tackled the serialisation
problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protocol-buffers/>`_
or `FlatBuffers <https://google.github.io/flatbuffers/>`_, for example.
Interestingly, many new takes on binary protocol design do not depart
far from ASN.1 from technical perspective. It's more of a matter of striking
a balance between processing overhead, wire format overhead and human
readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the `statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_ on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

Documentation

.. toctree::
  :maxdepth: 2

  /pyasn1/contents

Use case

.. toctree::
  :maxdepth: 2

  /example-use-case

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  /download

Changes

All changes and release history is maintained in changelog. There you
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..
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  :maxdepth: 1

  /changelog

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Getting help

Please, file your `issues <https://github.com/etingof/pyasn1/issues>`_

and `PRs <https://github.com/etingof/pyasn1/pulls>`_ at GitHub.
Alternatively, you could ask for help at
`Stack Overflow <http://stackoverflow.com/questions/tagged/pyasn1>`_
or search
`pyasn1-users <https://lists.sourceforge.net/lists/listinfo/pyasn1-users>`_
mailing list archive.

Books on ASN.1

The pyasn1 implementation is largely based on reading up the following awesome
books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson
* `ASN.1 Complete <http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>`_ by Prof John Larmouth

Here you can get the official standards which is hard to read:

* `ITU standards
 <http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>`_

On the other end of the readability spectrum, here is a quick and sweet write up:

* `A Layman's Guide to a Subset of ASN.1, BER, and DER <ftp://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>`_ by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper
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* /opt/cola/permits/2308723715_1736184137.6761692/0/pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/codec/native/decoder.py
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* /opt/cola/permits/2308723715_1736184137.6761692/0/pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/type/tag.py
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No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.2
Name: pyasn1

Version: 0.4.8
Summary: ASN.1 types and codecs
Home-page: https://github.com/etingof/pyasn1
Author: Ilya Etingof
Author-email: etingof@gmail.com
Maintainer: Ilya Etingof <etingof@gmail.com>
License: BSD
Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
Platform: any
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Education
Classifier: Intended Audience :: Information Technology
Classifier: Intended Audience :: System Administrators
Classifier: Intended Audience :: Telecommunications Industry
Classifier: License :: OSI Approved :: BSD License
Classifier: Natural Language :: English
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.4
Classifier:
Programming Language :: Python :: 2.5
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.2
Classifier: Programming Language :: Python :: 3.3
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Classifier: Programming Language :: Python :: 3.7
Classifier: Topic :: Communications
Classifier: Topic :: Software Development :: Libraries :: Python Modules

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ASN.1 library for Python

[![PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)](https://pypi.org/project/pyasn1)
[![Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)](https://pypi.org/project/pyasn1/)
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Status](https://img.shields.io/codecov/c/github/etingof/pyasn1.svg)](https://codecov.io/github/etingof/pyasn1)

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This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on [ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features
---

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.7
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

With pyasn1 you can build Python objects from ASN.1 data structures.
For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
 id        INTEGER,
 room  [0] INTEGER OPTIONAL,
 house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
   componentType = NamedTypes(
       NamedType('id', Integer()),
       OptionalNamedType(
           'room', Integer().subtype(
               implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
           )
       ),
       DefaultedNamedType(
           'house',
 Integer(0).subtype(
               implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
           )
       )
   )
```

It is in the spirit of ASN.1 to take abstract data description
and turn it into a programming language specific form.
Once you have your ASN.1 data structure expressed in Python, you
can use it along the lines of similar Python type (e.g. ASN.1
`SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify,
 encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id':
 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
```

With ASN.1 design, serialisation codecs are decoupled from data objects,
so you could turn every single ASN.1 object into many different
serialised forms. As of this moment, pyasn1 supports BER, DER, CER and
Python built-ins codecs. The extremely compact PER encoding is expected
to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the
[documentation](http://snmplabs.com/pyasn1/),
compiled ASN.1 modules for different protocols and file formats
could be found in the pyasn1-modules
[repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1

The pyasn1 package is distributed under terms and conditions of 2-clause
BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely
available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If
 something does not work as expected,
[open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or
post your question [on Stack Overflow](https://stackoverflow.com/questions/ask)
or try browsing pyasn1
[mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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1.3689 kubernetes-apiserver-extensions 0.30.0

1.3689.1 Available under license :

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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1.3700 bbolt 1.3.11

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1.3703 pygments 2.19.1

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```
---input---
!%$^*__--__._+++===-crazy-symbol

---tokens---
'!%$^*__--__._+++===-crazy-symbol' Name.Variable
'\n'        Text.Whitespace
'# Step 1 of 3: from Hakaru to Maple LO (linear operator)\n' Comment.Single

'\n'        Text.Whitespace

'toLO'      Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'module'    Keyword
'()'        Punctuation
'\n  '      Text.Whitespace
'export'    Keyword
```

```
'\n  '        Text.Whitespace
'ModuleApply' Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'proc'        Keyword
'('           Punctuation
'm'           Name
','           Operator
' '           Text.Whitespace
'$'           Operator
')'           Punctuation
'\n    '      Text.Whitespace
'local'       Keyword
' '           Text.Whitespace
'h'           Name
';'           Punctuation
'\n    '      Text.Whitespace
'h'           Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'gensym'      Name
'('           Punctuation
'"'           Punctuation
'h'           Name
'"'           Punctuation
');'          Punctuation
'\n
    '      Text.Whitespace
'_Env_HakaruSolve' Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'false'       Name
';'           Punctuation
'\n    '      Text.Whitespace
'LO'          Name
'('           Punctuation
'h'           Name
','           Operator
' '           Text.Whitespace
'integrate'   Name
'('           Punctuation
'm'           Name
','           Operator
' '           Text.Whitespace
'h'           Name
```

```
','          Operator
' '          Text.Whitespace
'[]))'       Punctuation
'\n  '       Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
';'          Punctuation
'\n\n  '     Text.Whitespace
'export'     Keyword
'\n  '       Text.Whitespace
'integrate'  Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'proc'       Keyword
'('          Punctuation
'm'          Name
','          Operator
' '          Text.Whitespace
'h'
   Name
','          Operator
' '          Text.Whitespace
'loops'      Name
' '          Text.Whitespace
'::'         Operator
' '          Text.Whitespace
'list'       Name
'('          Punctuation
'name'       Name
' '          Text.Whitespace
'='          Operator
' '          Text.Whitespace
'range'      Name
')'          Punctuation
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'[]'         Punctuation
','          Operator
' '          Text.Whitespace
'$'          Operator
')'          Punctuation
'\n    '     Text.Whitespace
'local'      Keyword
' '          Text.Whitespace
'x'          Name
```

```
','         Operator
' '         Text.Whitespace
'n'         Name
','         Operator
' '         Text.Whitespace
'i'         Name
','         Operator
' '         Text.Whitespace
'res'       Name
','         Operator
' '         Text.Whitespace
'l'         Name
','         Operator
' '         Text.Whitespace
'br'
        Name
','         Operator
' '         Text.Whitespace
'm0'        Name
';'         Punctuation
'\n\n    '    Text.Whitespace
'if'        Keyword
' '         Text.Whitespace
'm'         Name
' '         Text.Whitespace
'::'        Operator
' '         Text.Whitespace
'known_continuous' Name
' '         Text.Whitespace
'then'      Keyword
'\n      '    Text.Whitespace
'integrate_known' Name
'('         Punctuation
'Int'       Name
','         Operator
' '         Text.Whitespace
'Ints'      Name
','         Operator
' '         Text.Whitespace
'"'         Punctuation
'xx'        Name
'"'         Punctuation
','         Operator
' '         Text.Whitespace
'm'         Name
','         Operator
' '         Text.Whitespace
'h'         Name
```

```
','         Operator
' '         Text.Whitespace
'loops'     Name
')'         Punctuation
'\n    '    Text.Whitespace
'elif'      Keyword
' '         Text.Whitespace
'm'
         Name
' '         Text.Whitespace
'::'        Operator
' '         Text.Whitespace
'known_discrete' Name
' '         Text.Whitespace
'then'      Keyword
'\n     '   Text.Whitespace
'integrate_known' Name
'('         Punctuation
'Sum'       Name
','         Operator
' '         Text.Whitespace
'Sums'      Name
','         Operator
' '         Text.Whitespace
'"'         Punctuation
'kk'        Name
'"'         Punctuation
','         Operator
' '         Text.Whitespace
'm'         Name
','         Operator
' '         Text.Whitespace
'h'         Name
','         Operator
' '         Text.Whitespace
'loops'     Name
')'         Punctuation
'\n    '    Text.Whitespace
'elif'      Keyword
' '         Text.Whitespace
'm'         Name
' '         Text.Whitespace
'::'        Operator
' '         Text.Whitespace
'"'         Punctuation
'Ret'       Name
'('         Punctuation
'anything'  Name
```

```
')'
    Punctuation
"""         Punctuation
' '         Text.Whitespace
'then'      Keyword
'\n     '   Text.Whitespace
'applyintegrand' Name
'('         Punctuation
'h'         Name
','         Operator
' '         Text.Whitespace
'mk_ary'    Name
'('         Punctuation
'op'        Name.Builtin
'('         Punctuation
'1'         Literal.Number.Integer
','         Operator
'm'         Name
')'         Punctuation
','         Operator
' '         Text.Whitespace
'loops'     Name
'))'        Punctuation
'\n    '    Text.Whitespace
'elif'      Keyword
' '         Text.Whitespace
'm'         Name
' '         Text.Whitespace
'::'        Operator
' '         Text.Whitespace
"""         Punctuation
'Bind'      Name
'('         Punctuation
'anything'  Name
','         Operator
' '         Text.Whitespace
'name'      Name
','         Operator
' '         Text.Whitespace
'anything'  Name
')'         Punctuation
"""
   Punctuation
' '         Text.Whitespace
'then'      Keyword
'\n     '   Text.Whitespace
'res'       Name
' '         Text.Whitespace
```

```
':='        Operator
' '         Text.Whitespace
'eval'      Name.Builtin
'('         Punctuation
'op'        Name.Builtin
'('         Punctuation
'3'         Literal.Number.Integer
','         Operator
'm'         Name
')'         Punctuation
','         Operator
' '         Text.Whitespace
'op'        Name.Builtin
'('         Punctuation
'2'         Literal.Number.Integer
','         Operator
'm'         Name
')'         Punctuation
' '         Text.Whitespace
'='         Operator
' '         Text.Whitespace
'mk_idx'    Name
'('         Punctuation
'op'        Name.Builtin
'('         Punctuation
'2'         Literal.Number.Integer
','         Operator
'm'         Name
')'         Punctuation
','         Operator
' '         Text.Whitespace
'loops'     Name
'));'       Punctuation
'\n
    '       Text.Whitespace
'res'       Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'eval'      Name.Builtin
'('         Punctuation
'Integrand' Name
'('         Punctuation
'op'        Name.Builtin
'('         Punctuation
'2'         Literal.Number.Integer
','         Operator
'm'         Name
```

```
')'         Punctuation
','         Operator
' '         Text.Whitespace
"""         Punctuation
'integrate'   Name
"""         Punctuation
'('         Punctuation
'res'       Name
','         Operator
' '         Text.Whitespace
'x'         Name
','         Operator
' '         Text.Whitespace
'loops'     Name
'))'        Punctuation
','         Operator
' '         Text.Whitespace
'x'         Name
'='         Operator
'h'         Name
');'        Punctuation
'\n    '    Text.Whitespace
'integrate'   Name
'('         Punctuation
'op'        Name.Builtin
'('         Punctuation
'1'
        Literal.Number.Integer
','         Operator
'm'         Name
')'         Punctuation
','         Operator
' '         Text.Whitespace
'res'       Name
','         Operator
' '         Text.Whitespace
'loops'     Name
');'        Punctuation
'\n    '    Text.Whitespace
'elif'      Keyword
' '         Text.Whitespace
'm'         Name
' '         Text.Whitespace
'::'        Operator
' '         Text.Whitespace
"""         Punctuation
'specfunc'    Name
'('         Punctuation
```

```
'Msum'        Name
')'           Punctuation
'"'           Punctuation
' '           Text.Whitespace
'and'         Keyword
' '           Text.Whitespace
'('           Punctuation
'nops'        Name.Builtin
'('           Punctuation
'loops'       Name
')'           Punctuation
' '           Text.Whitespace
'='           Operator
' '           Text.Whitespace
'0'           Literal.Number.Integer
' '           Text.Whitespace
'or'          Keyword
' '           Text.Whitespace
'nops'
        Name.Builtin
'('           Punctuation
'm'           Name
')'           Punctuation
' '           Text.Whitespace
'='           Operator
' '           Text.Whitespace
'1'           Literal.Number.Integer
')'           Punctuation
' '           Text.Whitespace
'then'        Keyword
'\n     '     Text.Whitespace
'`+`'         Name
'('           Punctuation
'op'          Name.Builtin
'('           Punctuation
'map'         Name.Builtin
'('           Punctuation
'integrate'   Name
','           Operator
' '           Text.Whitespace
'['           Punctuation
'op'          Name.Builtin
'('           Punctuation
'm'           Name
')]'          Punctuation
','           Operator
' '           Text.Whitespace
'h'           Name
```

```
','         Operator
' '         Text.Whitespace
'loops'     Name
')))'       Punctuation
'\n    '    Text.Whitespace
'elif'      Keyword
' '         Text.Whitespace
'm'         Name
' '         Text.Whitespace
'::'        Operator
'
 '          Text.Whitespace
'''         Punctuation
'Weight'    Name
'('         Punctuation
'anything'  Name
','         Operator
' '         Text.Whitespace
'anything'  Name
')'         Punctuation
'''         Punctuation
' '         Text.Whitespace
'then'      Keyword
'\n     '   Text.Whitespace
'foldl'     Name
'('         Punctuation
'product'   Name
','         Operator
' '         Text.Whitespace
'op'        Name.Builtin
'('         Punctuation
'1'         Literal.Number.Integer
','         Operator
'm'         Name
')'         Punctuation
','         Operator
' '         Text.Whitespace
'op'        Name.Builtin
'('         Punctuation
'loops'     Name
'))'        Punctuation
' '         Text.Whitespace
'*'         Operator
' '         Text.Whitespace
'integrate' Name
'('         Punctuation
'op'        Name.Builtin
'('         Punctuation
```

```
'2'          Literal.Number.Integer
','          Operator
'm'
          Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'h'          Name
','          Operator
' '          Text.Whitespace
'loops'      Name
')'          Punctuation
'\n    '     Text.Whitespace
'elif'       Keyword
' '          Text.Whitespace
'm'          Name
' '          Text.Whitespace
'::'         Operator
' '          Text.Whitespace
't_pw_or_part' Name
' '          Text.Whitespace
'then'       Keyword
'\n      '   Text.Whitespace
'Partition'  Name
':'          Operator
'-'          Operator
'AppPartOrPw' Name
'\n                ' Text.Whitespace
'('          Punctuation
' '          Text.Whitespace
'proc'       Keyword
'('          Punctuation
'p'          Name
')'          Punctuation
'\n                    ' Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'not'        Keyword
' '          Text.Whitespace
'Partition'  Name
':'          Operator
'-'          Operator
'ConditionsDepend'
 Name
'('          Punctuation
'p'          Name
','          Operator
' '          Text.Whitespace
```

```
'lhs'        Name.Builtin
'~'          Operator
'('          Punctuation
'loops'      Name
'))'         Punctuation
' '          Text.Whitespace
'then'       Keyword
'\n                        ' Text.Whitespace
'Partition'  Name
':'          Operator
'-'          Operator
'Pmap'       Name
'('          Punctuation
'z'          Name
'->'         Operator
'integrate'  Name
'('          Punctuation
'z'          Name
','          Operator
'h'          Name
','          Operator
'loops'      Name
')'          Punctuation
','          Operator
'p'          Name
')'          Punctuation
'\n                      ' Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n                  ' Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
'\n                '
 Text.Whitespace
','          Operator
' '          Text.Whitespace
'm'          Name
','          Operator
' '          Text.Whitespace
'['          Punctuation
'"""         Punctuation
'no_split_disj' Name
'"""         Punctuation
']);'        Punctuation
'\n    '     Text.Whitespace
```

```
'elif'        Keyword
' '           Text.Whitespace
'm'           Name
' '           Text.Whitespace
'::'          Operator
' '           Text.Whitespace
't_case'      Name
' '           Text.Whitespace
'and'         Keyword
' '           Text.Whitespace
'not'         Keyword
' '           Text.Whitespace
'depends'     Name
'('           Punctuation
'op'          Name.Builtin
'('           Punctuation
'1'           Literal.Number.Integer
','           Operator
'm'           Name
')'           Punctuation
','           Operator
' '           Text.Whitespace
'map'         Name.Builtin
'('           Punctuation
'lhs'         Name.Builtin
','           Operator
' '           Text.Whitespace
'loops'
      Name
'))'          Punctuation
' '           Text.Whitespace
'then'        Keyword
'\n     '     Text.Whitespace
'subsop'      Name.Builtin
'('           Punctuation
'2'           Literal.Number.Integer
'='           Operator
'map'         Name.Builtin
'('           Punctuation
'proc'        Keyword
'('           Punctuation
'b'           Name
' '           Text.Whitespace
'::'          Operator
' '           Text.Whitespace
'Branch'      Name
'('           Punctuation
'anything'    Name
```

```
','          Operator
' '          Text.Whitespace
'anything'    Name
'))'         Punctuation
'\n                  ' Text.Whitespace
'eval'        Name.Builtin
'('          Punctuation
'subsop'      Name.Builtin
'('          Punctuation
'2'           Literal.Number.Integer
'='           Operator
'"'           Punctuation
'integrate'   Name
'"'           Punctuation
'('          Punctuation
'op'          Name.Builtin
'('          Punctuation
'2'           Literal.Number.Integer
','
      Operator
'b'           Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'x'           Name
','          Operator
' '          Text.Whitespace
'loops'       Name
')'          Punctuation
','          Operator
'b'           Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'x'           Name
'='           Operator
'h'           Name
')'          Punctuation
'\n                 ' Text.Whitespace
'end'         Keyword
' '          Text.Whitespace
'proc'        Keyword
','          Operator
'\n                 ' Text.Whitespace
'op'          Name.Builtin
'('          Punctuation
'2'           Literal.Number.Integer
','          Operator
```

```
'm'          Name
'))'         Punctuation
','          Operator
'\n            ' Text.Whitespace
'm'          Name
');'         Punctuation
'\n    '     Text.Whitespace
'elif'       Keyword
' '          Text.Whitespace
'm'          Name
' '          Text.Whitespace
'::'
         Operator
' '          Text.Whitespace
"""          Punctuation
'LO'         Name
'('          Punctuation
'name'       Name
','          Operator
' '          Text.Whitespace
'anything'   Name
')'          Punctuation
"""          Punctuation
' '          Text.Whitespace
'then'       Keyword
'\n     '    Text.Whitespace
'eval'       Name.Builtin
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'2'          Literal.Number.Integer
','          Operator
'm'          Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'1'          Literal.Number.Integer
','          Operator
'm'          Name
')'          Punctuation
' '          Text.Whitespace
'='          Operator
' '          Text.Whitespace
'h'          Name
')'          Punctuation
'\n    '     Text.Whitespace
```

'elif' Keyword
' ' Text.Whitespace
'm'
  Name
' ' Text.Whitespace
'::' Operator
' ' Text.Whitespace
'"' Punctuation
'Plate' Name
'(' Punctuation
'nonnegint' Name
',' Operator
' ' Text.Whitespace
'name' Name
',' Operator
' ' Text.Whitespace
'anything' Name
')' Punctuation
'"' Punctuation
' ' Text.Whitespace
'then' Keyword
'\n ' Text.Whitespace
'# Unroll Plate when the bound is known. We unroll Plate here (instead\n' Comment.Single

' ' Text.Whitespace
'# of unrolling Ints in reduce, for example) because we have no other\n' Comment.Single

' ' Text.Whitespace
"# way to integrate certain Plates, namely those whose bodies' control\n" Comment.Single

' ' Text.Whitespace
'# flows depend on the index.\n' Comment.Single

' ' Text.Whitespace
'x' Name
' ' Text.Whitespace
':=' Operator
' ' Text.Whitespace
'mk_sym'
  Name
'(' Punctuation
'"' Punctuation
'pp' Name
'"' Punctuation
',' Operator
' ' Text.Whitespace
'h' Name
');' Punctuation

```
'\n      '    Text.Whitespace
'x'           Name
' '          Text.Whitespace
':='          Operator
' '          Text.Whitespace
'['          Punctuation
'seq'         Name.Builtin
'('          Punctuation
'cat'         Name.Builtin
'('          Punctuation
'x'           Name
','          Operator
'i'          Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'i'          Name
'='           Operator
'0'           Literal.Number.Integer
'..'         Punctuation
'op'          Name.Builtin
'('          Punctuation
'1'           Literal.Number.Integer
','          Operator
'm'           Name
')'          Punctuation
'-'          Operator
'1'           Literal.Number.Integer
')];'         Punctuation
'\n      '    Text.Whitespace
'if'
        Keyword
' '          Text.Whitespace
'op'          Name.Builtin
'('          Punctuation
'1'           Literal.Number.Integer
','          Operator
'm'           Name
')'          Punctuation
' '          Text.Whitespace
'='           Operator
' '          Text.Whitespace
'0'           Literal.Number.Integer
' '          Text.Whitespace
'then'        Keyword
'\n        '  Text.Whitespace
'res'         Name
' '          Text.Whitespace
```

```
':='        Operator
' '         Text.Whitespace
'undefined'   Name
';'         Punctuation
'\n     '   Text.Whitespace
'else'       Keyword
'\n       '  Text.Whitespace
'if'        Keyword
' '         Text.Whitespace
'op'         Name.Builtin
'('         Punctuation
'1'          Literal.Number.Integer
','         Operator
'm'          Name
')'         Punctuation
' '         Text.Whitespace
'='          Operator
' '         Text.Whitespace
'1'          Literal.Number.Integer
' '         Text.Whitespace
'then'
      Keyword
'\n         ' Text.Whitespace
'res'        Name
' '         Text.Whitespace
':='         Operator
' '         Text.Whitespace
'op'         Name.Builtin
'('         Punctuation
'1'          Literal.Number.Integer
','         Operator
'x'          Name
');'        Punctuation
'\n       '  Text.Whitespace
'else'       Keyword
'\n         ' Text.Whitespace
'res'        Name
' '         Text.Whitespace
':='         Operator
' '         Text.Whitespace
'idx'        Name
'('         Punctuation
'x'          Name
','         Operator
'op'         Name.Builtin
'('         Punctuation
'2'          Literal.Number.Integer
','         Operator
```

```
'm'          Name
'));'        Punctuation
'\n'         Text.Whitespace

'#         res := piecewise(seq(op([op(2,m)=i-1, op(i,x)]), i=2..op(1,m)),\n' Comment.Single

'#                    op(1,x));\n' Comment.Single

'       '    Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'
         Keyword
';'          Punctuation
'\n       '  Text.Whitespace
'res'        Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'mk_idx'     Name
'('          Punctuation
'res'        Name
','          Operator
' '          Text.Whitespace
'loops'      Name
');'         Punctuation
'\n      '   Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n      '   Text.Whitespace
'res'        Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'applyintegrand' Name
'('          Punctuation
'h'          Name
','          Operator
' '          Text.Whitespace
'mk_ary'     Name
'('          Punctuation
"""          Punctuation
'ary'        Name
"""          Punctuation
'('          Punctuation
'op'         Name.Builtin
```

```
'('          Punctuation
'1'          Literal.Number.Integer
','          Operator
'm'          Name
')'
          Punctuation
','          Operator
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'2'          Literal.Number.Integer
','          Operator
'm'          Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'res'        Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'loops'      Name
'));'        Punctuation
'\n     '    Text.Whitespace
'for'        Keyword
' '          Text.Whitespace
'i'          Name
' '          Text.Whitespace
'from'       Keyword
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'1'          Literal.Number.Integer
','          Operator
'm'          Name
')'          Punctuation
' '          Text.Whitespace
'to'         Keyword
' '          Text.Whitespace
'1'          Literal.Number.Integer
' '          Text.Whitespace
'by'         Keyword
' '          Text.Whitespace
'-'          Operator
'1'
          Literal.Number.Integer
' '          Text.Whitespace
'do'         Keyword
'\n       '  Text.Whitespace
```

```
'res'         Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'integrate'   Name
'('           Punctuation
'eval'        Name.Builtin
'('           Punctuation
'op'          Name.Builtin
'('           Punctuation
'3'           Literal.Number.Integer
','           Operator
'm'           Name
')'           Punctuation
','           Operator
' '           Text.Whitespace
'op'          Name.Builtin
'('           Punctuation
'2'           Literal.Number.Integer
','           Operator
'm'           Name
')'           Punctuation
'='           Operator
'i'           Name
'-'           Operator
'1'           Literal.Number.Integer
')'           Punctuation
','           Operator
'\n                    ' Text.Whitespace
'Integrand'   Name
'('           Punctuation
'op'          Name.Builtin
'('           Punctuation
'i'           Name
','
          Operator
'x'           Name
')'           Punctuation
','           Operator
' '           Text.Whitespace
'res'         Name
')'           Punctuation
','           Operator
' '           Text.Whitespace
'loops'       Name
');'          Punctuation
'\n     '     Text.Whitespace
'end'         Keyword
```

```
' '          Text.Whitespace
'do'         Keyword
';'          Punctuation
'\n     '    Text.Whitespace
'res'        Name
'\n    '     Text.Whitespace
'elif'       Keyword
' '          Text.Whitespace
'm'          Name
' '          Text.Whitespace
'::'         Operator
' '          Text.Whitespace
'"'          Punctuation
'Plate'      Name
'('          Punctuation
'anything'   Name
','          Operator
' '          Text.Whitespace
'name'       Name
','          Operator
' '          Text.Whitespace
'anything'   Name
')'          Punctuation
'"'          Punctuation
' '          Text.Whitespace
'then'       Keyword
'\n     '    Text.Whitespace
'integrate'
  Name
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'3'          Literal.Number.Integer
','          Operator
'm'          Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'h'          Name
','          Operator
' '          Text.Whitespace
'['          Punctuation
'op'         Name.Builtin
'('          Punctuation
'2'          Literal.Number.Integer
','          Operator
'm'          Name
')'          Punctuation
```

```
'='          Operator
'0'          Literal.Number.Integer
'..'         Punctuation
'op'         Name.Builtin
'('          Punctuation
'1'          Literal.Number.Integer
','          Operator
'm'          Name
')'          Punctuation
'-'          Operator
'1'          Literal.Number.Integer
','          Operator
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'loops'      Name
')])'        Punctuation
'\n    '     Text.Whitespace
'elif'
       Keyword
' '          Text.Whitespace
'm'          Name
' '          Text.Whitespace
'::'         Operator
' '          Text.Whitespace
'"""'        Punctuation
'Context'    Name
'('          Punctuation
'anything'   Name
','          Operator
' '          Text.Whitespace
'anything'   Name
')'          Punctuation
'"""'        Punctuation
' '          Text.Whitespace
'then'       Keyword
'\n      '   Text.Whitespace
'applyop'    Name
'('          Punctuation
'integrate'  Name
','          Operator
' '          Text.Whitespace
'2'          Literal.Number.Integer
','          Operator
' '          Text.Whitespace
'm'          Name
','          Operator
' '          Text.Whitespace
```

```
'h'          Name
','          Operator
' '          Text.Whitespace
'loops'      Name
')'          Punctuation
'\n    '     Text.Whitespace
'elif'       Keyword
' '          Text.Whitespace
'h'          Name
' '          Text.Whitespace
'::'         Operator
' '
        Text.Whitespace
'appliable'   Name
' '          Text.Whitespace
'then'       Keyword
'\n      '   Text.Whitespace
'x'          Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'gensym'     Name
'('          Punctuation
'"'          Punctuation
'xa'         Name
'"'          Punctuation
');'         Punctuation
'\n      '   Text.Whitespace
'"'          Punctuation
'integrate'   Name
'"'          Punctuation
'('          Punctuation
'm'          Name
','          Operator
' '          Text.Whitespace
'Integrand'   Name
'('          Punctuation
'x'          Name
','          Operator
' '          Text.Whitespace
'h'          Name
'('          Punctuation
'x'          Name
'))'         Punctuation
','          Operator
' '          Text.Whitespace
'loops'      Name
')'          Punctuation
```

```
'\n    '      Text.Whitespace
'else'        Keyword
'\n      '    Text.Whitespace
'''           Punctuation
'procname'    Name
'(_'
          Punctuation
'passed'      Name
')'           Punctuation
'''           Punctuation
'\n    '      Text.Whitespace
'end'         Keyword
' '           Text.Whitespace
'if'          Keyword
'\n  '        Text.Whitespace
'end'         Keyword
' '           Text.Whitespace
'proc'        Keyword
';'           Punctuation
'\n\n\n  '    Text.Whitespace
'local'       Keyword
'\n  '        Text.Whitespace
'integrate_known' Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'proc'        Keyword
'('           Punctuation
'make'        Name
','           Operator
' '           Text.Whitespace
'makes'       Name
','           Operator
' '           Text.Whitespace
'var'         Name
','           Operator
' '           Text.Whitespace
'm'           Name
','           Operator
' '           Text.Whitespace
'h'           Name
','           Operator
' '           Text.Whitespace
'loops'       Name
' '           Text.Whitespace
'::'          Operator
'
```

```
 '          Text.Whitespace
'list'       Name
'('          Punctuation
'name'       Name
'='          Operator
'range'      Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'$'          Operator
')'          Punctuation
'\n    '     Text.Whitespace
'local'      Keyword
' '          Text.Whitespace
'x'          Name
','          Operator
' '          Text.Whitespace
'dens'       Name
','          Operator
' '          Text.Whitespace
'bds'        Name
';'          Punctuation
'\n    '     Text.Whitespace
'x'          Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'mk_sym'     Name
'('          Punctuation
'var'        Name
','          Operator
' '          Text.Whitespace
'h'          Name
');'         Punctuation
'\n    '     Text.Whitespace
'dens'       Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'density'    Name
'['          Punctuation
'op'
         Name.Builtin
'('          Punctuation
'0'          Literal.Number.Integer
','          Operator
'm'          Name
')]('        Punctuation
```

```
'op'          Name.Builtin
'('           Punctuation
'm'           Name
'));'         Punctuation
'\n    '      Text.Whitespace
'bds'         Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'bounds'      Name
'['           Punctuation
'op'          Name.Builtin
'('           Punctuation
'0'           Literal.Number.Integer
','           Operator
'm'           Name
')]('         Punctuation
'op'          Name.Builtin
'('           Punctuation
'm'           Name
'));'         Punctuation
'\n    '      Text.Whitespace
'if'          Keyword
' '           Text.Whitespace
'loops'       Name
' '           Text.Whitespace
'='           Operator
' '           Text.Whitespace
'[]'          Punctuation
' '           Text.Whitespace
'then'        Keyword
'\n      '    Text.Whitespace
'make'        Name
'('
          Punctuation
'dens'        Name
'('           Punctuation
'x'           Name
')'           Punctuation
' '           Text.Whitespace
'*'           Operator
' '           Text.Whitespace
'applyintegrand' Name
'('           Punctuation
'h'           Name
','           Operator
' '           Text.Whitespace
'x'           Name
```

```
')'          Punctuation
','          Operator
' '          Text.Whitespace
'x'          Name
' '          Text.Whitespace
'='          Operator
' '          Text.Whitespace
'bds'        Name
');'         Punctuation
'\n    '     Text.Whitespace
'else'       Keyword
'\n     '    Text.Whitespace
'makes'      Name
'('          Punctuation
'foldl'      Name
'('          Punctuation
'product'    Name
','          Operator
' '          Text.Whitespace
'dens'       Name
'('          Punctuation
'mk_idx'     Name
'('          Punctuation
'x'          Name
','          Operator
'loops'      Name
'))'         Punctuation
','
    Operator
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'loops'      Name
'))'         Punctuation
'\n            ' Text.Whitespace
'*'          Operator
' '          Text.Whitespace
'applyintegrand' Name
'('          Punctuation
'h'          Name
','          Operator
' '          Text.Whitespace
'x'          Name
')'          Punctuation
','          Operator
'\n           ' Text.Whitespace
'x'          Name
','          Operator
```

```
' '          Text.Whitespace
'bds'        Name
','          Operator
' '          Text.Whitespace
'loops'      Name
')'          Punctuation
'\n    '     Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n  '       Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
';'          Punctuation
'\n'         Text.Whitespace

'end'        Keyword
' '          Text.Whitespace
'module'     Keyword
';'
          Punctuation
' '          Text.Whitespace
'#toLO\n'    Comment.Single
# Teach Maple (through depends and eval) about our new binding forms.
# forall bind from 1st arg to 2nd arg.
# Ints,Sums,ints,sums bind from 2nd arg to 1st arg, and also from each element
#   of the 4th arg to the other elements on the left and to the 3rd arg.

`depends/forall` := proc(bvar, pred, x, $)
 depends(pred, x minus convert(bvar, 'set'))
end proc:

`depends/Ints` := proc(body, bvar, rng, loops, x, y, $)
 local xx, i;
 if nargs = 5 then
   xx := x; # y is ununsed and x lists the variables to look for
 else
   xx := y; # x is some KB and y lists the variables to look for
   if depends(x, y) then return true end if;
 end if;
 # don't remove bvar from xx!
 if depends(body, xx minus {bvar}) then return true end if;
 for i from nops(loops) to 1 by -1 do
   if depends(op([i,2],loops), xx) then return true end if;
   xx := xx minus {op([i,1],loops)};
 end do;
```

```
 depends(rng, xx)
end proc:
`depends/Sums` := eval(`depends/Ints`):
`depends/ints` := eval(`depends/Ints`):
`depends/sums`
 := eval(`depends/Ints`):

`eval/forall` := proc(e, eqs, $)
 local bvar, pred;
 bvar, pred := op(e);
 eval(op(0,e), eqs)(BindingTools:-generic_evalat(bvar, pred, eqs))
end proc:

`eval/Ints` := proc(e, eqs, $)
 local body, bvar, rng, loops, n, i;
 body, bvar, rng, loops := op(1..4, e);
 bvar, body := BindingTools:-generic_evalat(bvar, body, eqs);
 eval(op(0,e), eqs)(body, bvar,
                 BindingTools:-generic_evalatstar(rng, loops, eqs),
                 op(5..-1,e))
end proc:
`eval/Sums` := eval(`eval/Ints`):
`eval/ints` := eval(`eval/Ints`):
`eval/sums` := eval(`eval/Ints`):

`eval/Int` := proc(e, eqs, $)
 local body, bound, bvar;
 body, bound := op(1..2, e);
 if bound :: name then
   bound, body := BindingTools:-generic_evalat(bound, body, eqs);
 elif bound :: `=` then
   bvar := lhs(bound);
   bvar, body := BindingTools:-generic_evalat(bvar, body, eqs);
   bound := bvar = eval(rhs(bound), eqs);
 else
   body, bound := BindingTools:-generic_evalatstar(body,
 bound, eqs);
 end if;
 eval(op(0,e), eqs)(body, bound, op(eval([op(3..-1,e)], eqs)))
end proc:
`eval/Sum`     := eval(`eval/Int`):
`eval/Product` := eval(`eval/Int`):
`eval/int`     := eval(`eval/Int`):
`eval/sum`     := eval(`eval/Int`):
`eval/product` := eval(`eval/Int`):

################################################################################
```

```
Loop := module ()
 option package;
 local intssums, enter_piecewise, wrap,
       t_peel, do_peel, do_split, do_graft, do_rebase_lower, do_rebase_upper,
       Binder, Stmt, t_binder, t_stmt, t_exp,
       ModuleLoad;
 export
    # These first few are smart constructors (for themselves):
        ints, sums,
    # while these are "proper functions"
        mk_HArray, genLoop, unproducts, unproduct,
        peel, split, graft, rebase_lower, rebase_upper, Print;
 # these names are not assigned (and should not be).  But they are
 # used as global names, so document that here.
 global Ints, Sums, csgn, sum, signum;
  uses Hakaru, KB, Utilities;

 t_binder := 'Binder(identical(product, Product, sum, Sum), t_kb)';
 t_stmt   := 'Stmt(anything, list, list)';
 t_exp    := '{Stmt(identical(exp), [], []),
              Stmt(identical(`^`), [anything], [])}';

 ints := proc() intssums('ints', 'int', _passed) end proc;
 sums := proc() intssums('sums', 'sum', _passed) end proc;

 Print := proc(kind::identical(Ints,Sums,ints,sums),e,v::name,r0::range,rs::list(name=range),$)
   local k;
   k := StringTools[Capitalize](StringTools[Chop](convert(kind,string)));
   k := parse(cat("`print/",eval(k),"`"));
   eval(k)(e,v[op(rs)]=r0);
 end proc;

 intssums := proc(makes::name, make::name,
                 e::anything, x::name, rr::range, ll::list(name=range),
                 kb::t_kb:=empty, $)
   local t, r, l, kb2, w0, pp, i;
   t := `if`(make=int, HReal(open_bounds(rr)), HInt(closed_bounds(rr)));
   r, l, kb2 := genLoop(rr, ll, kb, 'Integrand'(x,e));
   w0, pp := unproducts(e, x, l,
 kb2);
   if depends(w0, x) then
     'makes(e, x, rr, ll)'
   else
     pp := 'make'(pp, x=r);
     for i in l do pp := 'product'(pp, i) end do;
     NewSLO:-simplify_factor_assuming(w0 * pp, kb);
   end if
 end proc;
```

```
mk_HArray := proc(t::t_type, loops::list(name=range), $)
  local res, i;
  res := t;
  for i in loops do res := HArray(res) end do;
  res
end proc;

genLoop := proc(e, loops::list(name=range), kb::t_kb)
  local kb1, rng, ind, do_subst, i;
  kb1 := kb;
  rng := table();
  ind := table();
  do_subst := e -> foldl(((e,eq) -> eval(e, op([lhs(eq),1],loops)=rhs(eq))),
                         e, entries(ind, 'pairs'));
  for i from nops(loops) to 1 by -1 do
    rng[i] := do_subst(op([i,2],loops));
    ind[i], kb1 := genType(op([i,1],loops), HInt(closed_bounds(rng[i])),
                           kb1, _rest);
  end do;
  do_subst(e), zip(`=`, [entries(ind, 'nolist')],
                       [entries(rng, 'nolist')]), kb1
end
proc;

unproducts := proc(w, x::name, loops::list(name=range), kb::t_kb, $)
  local w0, pp, j, w1, w2, loop;
  w0 := 1;
  pp := w;
  for j from nops(loops) to 1 by -1 do
    w1, pp := op(unproduct(pp, x, op(j,loops), [], `*`, kb, kb));
    # separate out each of the factors in w1, as they might have different
    # variable dependencies, which can be exploited by other routines
    w2 := convert(w1, 'list', '`*`');
    for loop in [op(j+1..-1, loops)] do
      w2 := map((w -> product(eval(w, x=idx(x,lhs(loop))), loop)), w2);
    end do;
    w0 := w0 * `*`(op(w2));
    # w0 := w0 * foldl(product, w1, op(j+1..-1, loops));
  end do;
  # Rewrite ... * piecewise(i<=kk-1, xs^2, 1)
  #      to ... * xs ^ (2*piecewise(i<=kk-1, 1))
  # because the latter is easier to integrate and recognize with respect to xs
  pp := for_poly(pp, # TODO: move this rewrite into eval_factor (then remove for_poly?)?
    proc (p)
      local n, s, r;
      if p :: 'And(specfunc(piecewise),
```

```
anyfunc(freeof(x), anything, 1))' then
        n := indets(op(1,p),name);
        if op(2,p) :: {'exp(anything)', '`^`('freeof'(n),'anything')} then
          s, r := selectremove(depends, convert(op([2,-1],p),'list','`*`'), n);
          subsop(-1 = `*`(piecewise(op(1,p), `*`(op(s))), op(r)), op(2,p))
        else
          s, r := selectremove(depends, convert(op(2,p),'list','`*`'), n);
          `*`(op(r)) ^ piecewise(op(1,p), 1)
            * `if`(nops(s) > 0, piecewise(op(1,p), `*`(op(s)), 1), 1)
        end if
      else
        p
      end if
    end proc);
  w0, pp
end proc;

# Find [w1,pp] so that
#   wrap(heap,w,mode,kb1,kb0)
#   = w1*product(eval(pp,var=idx(var,lhs(loop))),loop)
# making w1 depend on var as little as possible.
# The flag "mode" should be `+` if "heap" contains an entry of the form
# t_exp, or `*` otherwise.
unproduct := proc(w, var::name, loop::(name=range),
                  heap::list, mode::identical(`*`,`+`),
                   kb1::t_kb, kb0::t_kb, $)
  local ind, res, dummy, kb, kbThen, i, w1, pp, s, r, x;
  if not depends(w, var) then
    return [wrap(heap, w, mode, kb1, kb0), 1]
  end if;
  # The `..' (indices) of all occurences of `idx(var,..)'
  ind := map2(op, 2, indets(w, 'idx(identical(var), anything)'));
  if nops(ind) = 1 then
    ind := op(ind);
    # Make sure ind contains no bound variables before lifting it!
    # So, check that "extract using indets" and "rename using eval" commute.
    s := indets(ind, 'name');
    s := map(proc(x,$) local y; `if`(depends(ind,x), x=y, NULL) end proc, s);
    if indets(eval(w, s), 'idx(identical(var), anything)')
            = {idx(var, eval(ind, s))} then
      # use kb as a local context, and 'solve' for the innermost bound var
      #   used in ind.
      kb  := assert(lhs(loop)=ind, kb1); # BUG! bijectivity assumed!
      # if the assertion makes the KB false, it isn't needed(?)
       ASSERT(type(kb, t_kb),
        sprintf("assert(%a,%a) produced a false KB!\n", lhs(loop)=ind,kb1)):
      res := subs(idx(var,ind) = idx(var,lhs(loop)), w);
      res := wrap(heap, res, mode, kb, kb0);
```

```
      res := subs(idx(var,lhs(loop))=dummy, res);
      if not depends(res, var) then
        return [1, subs(dummy=var, res)]
      end if
    end if
  end if;
  # distribute the unproduct over each part
  if w :: mode then
    res := map(unproduct, `if`(mode=`*`, list_of_mul(w), [op(w)]),
              var, loop, heap, mode, kb1, kb0);
    return [`*`(op(map2(op,1,res))), `*`(op(map2(op,2,res)))]
  end if;
  # for piecewise, just map right in (using KB for context tracking)
  if w :: 'specfunc(piecewise)' then
    kb := kb1;
    for i from 1 to nops(w) do
      if i :: even then
        kbThen := assert(    op(i-1,w) , kb);
        # accumulate the rest, regardless
        kb     := assert(Not(op(i-1,w)), kb);

        # if kbThen
is invalid, deal appropriately
        if not type(kbThen,t_kb) then next end if;

        w1[i], pp[i] := op(unproduct(op(i,w),var,loop,heap,mode,kbThen,kb0));
        # if kb is inconsistent, we're done
        if not type(kb,t_kb) then break end if;
      elif i = nops(w) then
        if not type(kb,t_kb) then next end if;
        w1[i], pp[i] := op(unproduct(op(i,w),var,loop,heap,mode,kb    ,kb0))
      end if
    end do;
    return [`*`(entries(w1,'nolist')), `*`(entries(pp,'nolist'))]
  end if;
  if mode = `*` then
    if w :: (anything^freeof(var)) then
      return unproduct(op(1,w), var, loop,
                    [op(heap), Stmt(`^`, [], [op(2,w)])], `*`, kb1, kb0)
    elif w :: exp(anything) then
      return unproduct(op(1,w), var, loop,
                    [op(heap), Stmt(exp, [], [])], `+`, kb1, kb0)
    elif w :: (freeof(var)^anything) then
      return unproduct(op(2,w), var, loop,
                    [op(heap), Stmt(`^`,
[op(1,w)], [])], `+`, kb1, kb0)
    end if
  end if;
```

```
  if mode = `+` and w :: `*` then
    s, r := selectremove(depends, w, var);
    if s :: `*` then
      # Nonlinear %1 (time to reread kiselyov-lifted?)
    else
      return unproduct(s, var, loop,
                       [op(heap), Stmt(`*`, [], [r])], `+`, kb1, kb0)
    end if
  end if;
  if w :: And(specfunc(`if`(mode = `*`, {product, Product}, {sum, Sum})),
              anyfunc(anything, name=range(freeof(var)))) then
    x, kb := genType(op([2,1],w), HInt(closed_bounds(op([2,2],w))), kb1,
                     w, var, loop, heap);
    return unproduct(eval(op(1,w), op([2,1],w)=x), var, loop,
                     [op(heap), Binder(op(0,w), kb1)], mode, kb, kb0)
  end if;
  if mode = `*` and w :: '{`+`, specfunc({sum, Sum})}' then
    # Maybe this w is one of those big sums involving products that are
    # always equal to 1, left behind by the density of Categorical
    w1 := graft(split(peel(w)));
     w1 := combine(rebase_upper(w1));
    w1 := combine(rebase_lower(w1));
    return [wrap(heap, w1, mode, kb1, kb0), 1]
  end if;
  return [wrap(heap, w, mode, kb1, kb0), 1]
end proc;

enter_piecewise := proc(ee, kb0::t_kb, mode::identical(`*`,`+`), $)
  local e, kb, mo;
  e  := ee;
  kb := kb0;
  mo := mode();
  while e :: 'specfunc(piecewise)' and nops(e) = 3 do
    if op(3,e) = mo then
      kb := assert(op(1,e), kb);
      e := op(2,e);
    elif op(2,e) = mo then
      kb := assert(Not(op(1,e)), kb);
      e := op(3,e);
    else
      break;
    end if;
  end do;
  ASSERT(type(kb,t_kb), "enter_piecewise: KB of piecewise conditions is not valid, so the input piecewise must
not be valid.");
  e, kb
end proc;
```

```
# heap is a list of t_binder and t_stmt
# one invariant to maintain:
#  wrap(heap, mode(a,b)) = wrap(heap,a) * wrap(heap,b)

# Also, a t_binder is a Product/product/Sum/sum.
# And, a t_stmt is a 1-hole
context of a (multiplicative) AST,
#   used for [a ^ hole, hole ^ b, exp(hole), c * hole].

wrap := proc(heap::list, e1, mode1::identical(`*`,`+`),
            kb1::t_kb, kb0::t_kb, $)
  local e, kb, mode, i, entry, rest, var, new_rng, make, logmake,
     dom_spec, w, wPow, wExp, arrrgs;
  e    := e1;
  kb   := kb1;
  mode := mode1;
  for i from nops(heap) to 1 by -1 do
    entry := op(i,heap);
    if entry :: t_binder then
      if not (op(1,entry) in `if`(mode=`+`, {sum,Sum},
                                  {product,Product})) then
        print("Warning: heap mode inconsistency", heap, mode1)
      end if;
      e, kb := enter_piecewise(e, kb, mode);
      rest := kb_subtract(kb, op(2,entry));
      new_rng, rest := selectremove(type, rest,
        {[identical(genType), name, specfunc(HInt)],
         [identical(genLet), name, anything]});
      if not (new_rng :: [list]) then
        error "kb_subtract should return exactly
one gen*"
      end if;
      new_rng := op(new_rng);
      var     := op(2,new_rng);
      if op(1,new_rng) = genType then
        make    := op(1,entry);
        new_rng := range_of_HInt(op(3,new_rng));
      else # op(1,new_rng) = genLet
        make    := eval;
        new_rng := op(3,new_rng);
      end if;
      dom_spec, rest := selectremove(depends,
        map(proc(a::[identical(assert),anything],$) op(2,a) end proc, rest),
        var);

      # Like e := make(piecewise(And(op(dom_spec)), e, mode()), var=new_rng);
      # but try to simplify by pushing the make and the piecewise into e
      (e, w) := selectremove(depends, convert(e, 'list', `*`), var);
```

```
      w := `*`(op(w));
      if mode = `*` then
        (wPow, e) := selectremove(type, e, '`^`('freeof'(var), 'anything'));
        (wExp, e) := selectremove(type, e, 'exp(anything)');
        wExp := `+`(op(map2(op, 1, wExp)));
        wExp := expand(wExp, op(indets(wExp, function)));
         logmake := proc(t)
          local s, r;
          s, r := selectremove(depends, convert(t, 'list', `*`), var);
          `*`(op(r),
              `if`(make=eval,eval,Sum)
                 (piecewise_And(dom_spec, `*`(op(s)), 0), var=new_rng));
        end proc;
        w := `*`( `if`(w = 1, 1, w ^ logmake(1))
                , op(map((f -> op(1,f) ^ logmake(op(2,f))), wPow))
                , `if`(wExp = 0, 1, exp(maptype(`+`,logmake,wExp))) );
      end if;
      e := w * make(piecewise_And(dom_spec, `*`(op(e)), mode()), var=new_rng);

      # `rest' originally comes from `entry', and this reinserts it after some
      # processing. The original KB was valid, so this one should also be valid.
      kb := foldr(assert, op(2,entry), op(rest));
      ASSERT(type(kb,t_kb), "Loop/wrap{t_binder}: rebuilding kb produced contradiction");

    elif entry :: t_stmt then
      # We evaluate arrrgs first, in case op(1,stmt) is an operation (such
as
      # piecewise) that looks ahead at how many arguments it is passed before
      # they are evaluated.
      arrrgs := op(op(2,entry)), e, op(op(3,entry));
      e      := op(1,entry)(arrrgs);
      if entry :: t_exp then
        if mode <> `+` then
          print("Warning: heap mode inconsistency?", heap, mode1)
        end if;
        mode := `*`;
      end if
    else error "Malformed heap entry %1", entry end if
  end do;
  if mode <> `*` then
    print("Warning: heap mode inconsistency??", heap, mode1)
  end if;
  e, kb := enter_piecewise(e, kb, mode);
  rest := kb_subtract(kb, kb0);
  rest := map(proc(a::[identical(assert),anything],$) op(2,a) end proc, rest);
  (wExp, e) := selectremove(type, convert(e, 'list', `*`), 'exp(anything)');
  wExp := `+`(op(map2(op, 1, wExp)));
  wExp := expand(wExp, op(indets(wExp, function)));
```

```
  logmake := (t -> t * piecewise_And(rest,1,0));
  `if`(wExp = 0, 1, exp(maptype(`+`,logmake,wExp)))

    * piecewise_And(rest,`*`(op(e)),1);
end proc;

# Rewrite product(...piecewise(i+42=lo+42,th,el)...,i=lo..hi)
# to eval(...th...,i=lo)*product(...el...,i=lo+1..hi)
t_peel := 'And(specfunc({sum,Sum,product,Product}),
              anyfunc(anything, name=range))';
peel := proc(e, $)
  subsindets(e, t_peel, do_peel);
end proc;
do_peel := proc(e, $)
  local make, body, x, r, cond, line, test, x0, r0, cond0, here, rest;
  if not (e :: t_peel) then return e end if;
  if   op(0,e) in '{sum    ,Sum    }' then make := `+`;
  elif op(0,e) in '{product,Product}' then make := `*`; end if;
  body, r := op(e);
  x, r    := op(r);
  for cond in indets(body, '{`=`(algebraic),`<`,`<=`}') do
    line := `-`(op(cond));
    if 1 <> degree(line, x) then next end if;
    if cond :: `=` then
      cond0 := true;
      if Testzero(eval(line, x=lhs(r))) then
        x0 := lhs(r); r0 := applyop(`+`, 1, r, 1);
      elif Testzero(eval(line, x=rhs(r))) then

    x0 := rhs(r); r0 := applyop(`-`, 2, r, 1);
      else next end if;
    else
      test := proc(x0, x1, $)
        local res;
        res := evalb(not op(0,cond)(eval(line, x=x1), 0));
        `if`(res in '{true,false}'
              and evalb(op(0,cond)(eval(line, x=x0), 0)) = res,
            res,
            FAIL)
      end proc;
      cond0 := test(lhs(r), lhs(r)+1);
      if cond0 <> FAIL then
        x0 := lhs(r); r0 := applyop(`+`, 1, r, 1);
      else
        cond0 := test(rhs(r), rhs(r)-1);
        if cond0 <> FAIL then
          x0 := rhs(r); r0 := applyop(`-`, 2, r, 1);
        else next end if;
```

```
      end if;
    end if;
    here := subs(cond =           cond0 , body);
    rest := subs(cond = evalb(not cond0), body);
    return make(eval(here, x=x0), do_peel(eval(subsop(1=rest, [2,2]=r0, e))));
  end do;
  return e;
end proc;

# Expand sum(a*(b-c),q) to sum(a*b,q)-sum(a*c,q)
split := proc(e, $)
  subsindets(e, 'And(specfunc({sum,Sum}),
                    anyfunc(And(`*`,Not(`*`(Not(`+`)))),name=anything))',
               do_split);
end proc;
do_split := proc(e, $)
  local terms, x;
  terms := convert(expand(op(1,e), op(indets(op(1,e), function))),
                 'list', `+`);
  x := op([2,1],e);
  `+`(op(map(proc(term, $)
    local s, r;
    s, r := selectremove(depends, convert(term, 'list', `*`), x);
    `*`(op(r), subsop(1=`*`(op(s)),e))
  end proc, terms)))
end proc;

# Simplify f(lo-1)*product(f(i),i=lo..hi) to product(f(i),i=lo-1..hi)
graft := proc(e, $)
  subsindets(e, 'Or(And(`*`,Not(`*`(Not(specfunc({product,Product}))))),
                  And(`+`,Not(`+`(Not(specfunc({sum    ,Sum    }))))))',
               do_graft);
end proc;
do_graft := proc(e, $)
  local produce, factors, i, j;
  produce := `if`(e::`*`, '{product,Product}',
                        '{sum    ,Sum    }');
  factors := sort(convert(e,'list'),

          key = (factor -> -numboccur(factor,produce)));
  for i from nops(factors) to 2 by -1 do
    for j from i-1 to 1 by -1 do
      if op(j,factors) :: 'And'('specfunc'(produce),
                              'anyfunc(anything,name=range)') then
        if Testzero(op(i,factors) - eval(op([j,1],factors),
            op([j,2,1],factors)=op([j,2,2,1],factors)-1)) then
          factors := subsop(i=NULL,applyop(`-`,[j,2,2,1],factors,1));
          break
```

```
        elif Testzero(op(i,factors) - eval(op([j,1],factors),
              op([j,2,1],factors)=op([j,2,2,2],factors)+1)) then
          factors := subsop(i=NULL,applyop(`+`,[j,2,2,2],factors,1));
          break
        end if
      end if
    end do
  end do;
  op(0,e)(op(factors))
end proc;

# Normalize sum(f(i),i=2..hi) to sum(f(i+2),i=0..hi-2)
rebase_lower := proc(e, $)
  subsindets(e, 'And(specfunc({sum,Sum,product,Product}),
                  anyfunc(anything,

        name=Not({0,SymbolicInfinity,undefined})..anything))',
              do_rebase_lower);
end proc;
do_rebase_lower := proc(e, $)
  subsop([2,2,1]=0,
        applyop(`-`,
              [2,2,2],
              applyop(eval, 1, e, op([2,1],e)=op([2,1],e)+op([2,2,1],e)),
              op([2,2,1],e)))
end proc;

# Normalize sum(f(i),i=lo..2) to sum(f(i+2),i=lo-2..0)
rebase_upper := proc(e, $)
  subsindets(e, 'And(specfunc({sum,Sum,product,Product}),
                  anyfunc(anything,
                    name=anything..Not({0,SymbolicInfinity,undefined})))',
              do_rebase_upper);
end proc;
do_rebase_upper := proc(e, $)
  subsop([2,2,2]=0,
        applyop(`-`,
              [2,2,1],
              applyop(eval, 1, e, op([2,1],e)=op([2,1],e)+op([2,2,2],e)),
              op([2,2,2],e)))
end proc;

ModuleLoad := proc($)
  # Override csgn to work a little bit harder on piecewise and sum
  # (to get rid
of csgn(1/2+1/2*sum(piecewise(...,1,0),...))
  #  produced by int on a Gaussian mixture model)
  unprotect(csgn);
```

```
  csgn := overload([
    # Handle if the csgn of a piecewise doesn't depend on which branch
    proc(a :: specfunc(piecewise), $)
      option overload;
      local r, i;
      r := {seq(`if`(i::even or i=nops(a), csgn(op(i,a)), NULL),
              i=1..nops(a))};
      if nops(r)=1 then return op(r) end if;
      if not assigned(_Envsignum0) then
        r := r minus {0};
        if nops(r)=1 then return op(r) end if;
      end if;
      error "invalid input: cannot csgn %1", a;
    end proc,
    # Handle if the csgn of a sum doesn't depend on the bound variable
    proc(a :: And(specfunc({sum, Sum}), anyfunc(anything, name=range)), $)
      option overload;
      local r;
      r := csgn(op(1,a));
      if not depends(r,op([2,1],a)) then
        return signum(op([2,2,2],a)+1-op([2,2,1],a)) * r
      end if;
      error
"invalid input: cannot csgn %1", a;
    end proc,
    csgn]);
  protect(csgn);

  # Do the same to signum.
  unprotect(signum);
  signum := overload([
    # Handle if the signum of a piecewise doesn't depend on which branch
    proc(a :: specfunc(piecewise), $)
      option overload;
      local r, i;
      r := {seq(`if`(i::even or i=nops(a), signum(op(i,a)), NULL),
              i=1..nops(a))};
      if nops(r)=1 then return op(r) end if;
      if not assigned(_Envsignum0) then
        r := r minus {0};
        if nops(r)=1 then return op(r) end if;
      end if;
      error "invalid input: cannot signum %1", a;
    end proc,
    # Handle if the signum of a sum doesn't depend on the bound variable
    proc(a :: And(specfunc({sum, Sum}), anyfunc(anything, name=range)), $)
      option overload;
      local r;
```

```
      r := signum(op(1,a));
      if not depends(r,op([2,1],a)) then
        return signum(op([2,2,2],a)+1-op([2,2,1],a))
 * r
      end if;
      error "invalid input: cannot signum %1", a;
    end proc,
    signum]);
  protect(signum);

  # Override sum to fail faster
  unprotect(sum);
  sum := overload([
    proc(f :: Not({`+`,`+`^integer}),
         k :: name=And(range,Not(range(rational))), $)
      option overload;
      if not (`-`(op(rhs(k))) :: 'rational')
         and not (subsindets(f, 'anything^integer', f->op(1,f))
                 :: '{`+`,And(`*`,Not(`*`(Not(`+`))))}')
         and depends(indets(f, '{specfunc(idx), specindex(idx)}'), op(1,k))
      then
        'procname(_passed)'
      else
        error "invalid input: cannot fast-fail sum(%1, %2)", _passed
      end if
    end proc,
    sum]);
  protect(sum);

  :-`print/Ints` := curry(thismodule:-Print,Ints);
  :-`print/Sums` := curry(thismodule:-Print,Sums);
  :-`print/ints` := curry(thismodule:-Print,ints);
  :-`print/sums` := curry(thismodule:-Print,sums);

 end proc;
 ModuleLoad():
end
 module; # Loop
'# New ports collection makefile for:    python25\n' Comment

'# Date created:         3 July 2003\n' Comment

'# Whom:                 Hye-Shik Chang <perky@FreeBSD.org>\n' Comment

'#\n'         Comment

'# $FreeBSD: ports/lang/python25/Makefile,v 1.145 2007/10/03 23:22:04 edwin Exp $\n' Comment
```

```
'\n'        Text.Whitespace

'PORTNAME'    Name.Variable
'='         Operator
'\t'        Text.Whitespace
'python25'    Text
'\n'        Text.Whitespace

'PORTVERSION' Name.Variable
'='         Operator
'\t'        Text.Whitespace
'2'         Literal.Number
'.5.1'      Text
'\n'        Text.Whitespace

'CATEGORIES'  Name.Variable
'='         Operator
'\t'        Text.Whitespace
'lang'      Text
' '         Text.Whitespace
'python'    Text
' '         Text.Whitespace
'ipv6'      Text
'\n'        Text.Whitespace

'MASTER_SITES' Name.Variable
'='         Operator
'\t'        Text.Whitespace
'${'        Literal.String.Interpol
'PYTHON_MASTER_SITES' Name.Variable
'}'
        Literal.String.Interpol
'\n'        Text.Whitespace

'MASTER_SITE_SUBDIR' Name.Variable
'='         Operator
'\t'        Text.Whitespace
'${'        Literal.String.Interpol
'PYTHON_MASTER_SITE_SUBDIR' Name.Variable
'}'         Literal.String.Interpol
'\n'        Text.Whitespace

'DISTFILES'   Name.Variable
'='         Operator
'\t'        Text.Whitespace
'${'        Literal.String.Interpol
'PYTHON_DISTFILE' Name.Variable
'}'         Literal.String.Interpol
```

```
'\n'        Text.Whitespace

'\n'        Text.Whitespace

'MAINTAINER'  Name.Variable
'='         Operator
'\t'        Text.Whitespace
'python@FreeBSD.org' Text
'\n'        Text.Whitespace

'COMMENT'     Name.Variable
'?='        Operator
'\t'        Text.Whitespace
'An'        Text
' '         Text.Whitespace
'interpreted' Text
' '         Text.Whitespace
'object-oriented' Text
' '         Text.Whitespace
'programming' Text
' '         Text.Whitespace
'language'    Text
'\n'
        Text.Whitespace

'\n'        Text.Whitespace

'DIST_SUBDIR' Name.Variable
'='         Operator
'\t'        Text.Whitespace
'python'      Text
'\n'        Text.Whitespace

'WRKSRC'      Name.Variable
'='         Operator
'\t\t'      Text.Whitespace
'${'        Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}'         Literal.String.Interpol
'/portbld.static' Text
'\n'        Text.Whitespace

'PATCH_WRKSRC' Name.Variable
'='         Operator
'\t'        Text.Whitespace
'${'        Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}'         Literal.String.Interpol
```

```
'\n'          Text.Whitespace

'GNU_CONFIGURE' Name.Variable
'='           Operator
'\t'          Text.Whitespace
'yes'         Text
'\n'          Text.Whitespace

'CONFIGURE_TARGET' Name.Variable
'='           Operator
'\t'          Text.Whitespace
'--build'     Text
'='           Operator
'${'          Literal.String.Interpol
'MACHINE_ARCH' Name.Variable
'}'           Literal.String.Interpol
'-portbld-freebsd'
 Text
'${'          Literal.String.Interpol
'OSREL'       Name.Variable
'}'           Literal.String.Interpol
'\n'          Text.Whitespace

'CONFIGURE_SCRIPT' Name.Variable
'='           Operator
'\t'          Text.Whitespace
'../configure' Text
' '           Text.Whitespace
'# must be relative\n' Comment.Single

'CONFIGURE_ENV' Name.Variable
'='           Operator
'\t'          Text.Whitespace
'OPT'         Name.Variable
'='           Operator
'"'           Literal.String.Double
'${'          Literal.String.Interpol
'CFLAGS'      Name.Variable
'}'           Literal.String.Interpol
'"'           Literal.String.Double
' '           Text.Whitespace
'SVNVERSION'  Name.Variable
'='           Operator
'"echo freebsd"' Literal.String.Double
'\n'          Text.Whitespace

'MAKE_ENV'    Name.Variable
'='           Operator
```

```
'\t'        Text.Whitespace
'VPATH'     Name.Variable
'='         Operator
''''        Literal.String.Double
'${'        Literal.String.Interpol
'PYTHON_WRKSRC'
 Name.Variable
'}'         Literal.String.Interpol
''''        Literal.String.Double
'\n'        Text.Whitespace

'INSTALLS_SHLIB' Name.Variable
'='         Operator
'\t'        Text.Whitespace
'yes'       Text
'\n'        Text.Whitespace

'INSTALL_TARGET' Name.Variable
'='         Operator
'\t'        Text.Whitespace
'altinstall'  Text
'\n'        Text.Whitespace

'MAN1'      Name.Variable
'='         Operator
'\t\t'      Text.Whitespace
'${'        Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'         Literal.String.Interpol
'.1'        Text
'\n'        Text.Whitespace

'\n'        Text.Whitespace

'USE_PYTHON'  Name.Variable
'='         Operator
'\t'        Text.Whitespace
'yes'       Text
'\n'        Text.Whitespace

'PYTHON_VERSION' Name.Variable
'='         Operator
'\t'        Text.Whitespace
'python2.5'   Text
'\n'        Text.Whitespace

'PYTHON_NO_DEPENDS' Name.Variable
'='
```

```
      Operator
'\t'        Text.Whitespace
'yes'        Text
'\n'        Text.Whitespace

'\n'        Text.Whitespace

'SHARED_WRKSRC' Name.Variable
'='         Operator
'\t'        Text.Whitespace
'${'        Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}'         Literal.String.Interpol
'/portbld.shared' Text
'\n'        Text.Whitespace

'PLIST'     Name.Variable
'='         Operator
'\t\t'      Text.Whitespace
'${'        Literal.String.Interpol
'WRKDIR'    Name.Variable
'}'         Literal.String.Interpol
'/PLIST'    Text
'\n'        Text.Whitespace

'PLIST_TEMPLATE' Name.Variable
'?='        Operator
'${'        Literal.String.Interpol
'PKGDIR'    Name.Variable
'}'         Literal.String.Interpol
'/pkg-plist'  Text
'\n'        Text.Whitespace

'PLIST_SUB'   Name.Variable
'='         Operator
'\t'        Text.Whitespace
'PYVER'     Name.Variable
'='         Operator
'${'        Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':'
        Punctuation
'S'         Name.Variable
'/python//'   Punctuation
'}'         Literal.String.Interpol
' '         Text.Whitespace
'\\\n'      Literal.String.Escape
```

```
'\t\t'        Text.Whitespace
'PYVER_WITHPAT' Name.Variable
'='           Operator
'${'          Literal.String.Interpol
'PORTVERSION' Name.Variable
':'           Punctuation
'S'           Name.Variable
'/.c/c/'      Punctuation
'}'           Literal.String.Interpol
'\n'          Text.Whitespace

'DEMODIR'     Name.Variable
'='           Operator
'\t'          Text.Whitespace
'${'          Literal.String.Interpol
'PREFIX'      Name.Variable
'}'           Literal.String.Interpol
'/share/examples/' Text
'${'          Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'           Literal.String.Interpol
'\n'          Text.Whitespace

'TOOLSDIR'    Name.Variable
'='           Operator
'\t'          Text.Whitespace
'${'          Literal.String.Interpol
'PREFIX'      Name.Variable
'}'
    Literal.String.Interpol
'/share/'     Text
'${'          Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'           Literal.String.Interpol
'\n'          Text.Whitespace

'\n'          Text.Whitespace

'BIN_SCRIPTS' Name.Variable
'='           Operator
'\t'          Text.Whitespace
'idle'        Text
' '           Text.Whitespace
'pydoc'       Text
' '           Text.Whitespace
'python'      Text
' '           Text.Whitespace
'python-shared' Text
```

```
' '          Text.Whitespace
'smtpd.py'    Text
' '          Text.Whitespace
'python-config' Text
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'python-shared-config' Text
'\n'         Text.Whitespace

'BINLINKS_SUB' Name.Variable
'='          Operator
'\t'         Text.Whitespace
'-e'         Text
' '          Text.Whitespace
'''s,smtpd,smtpd${PYTHON_VER},''' Literal.String.Single
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'-e'
         Text
' '          Text.Whitespace
'''s,(idle|pydoc|python-shared|python),\\1${PYTHON_VER},''' Literal.String.Single
'\n\n'       Text.Whitespace

'OPTIONS'     Name.Variable
'='          Operator
'\t'         Text.Whitespace
'THREADS'     Text
' '          Text.Whitespace
'''Enable thread support''' Literal.String.Double
' '          Text.Whitespace
'on'         Text
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'HUGE_STACK_SIZE' Text
' '          Text.Whitespace
'''Use a larger thread stack''' Literal.String.Double
' '          Text.Whitespace
'off'        Text
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
```

```
'UCS4'       Text
' '          Text.Whitespace
'"Use UCS4 for unicode support"' Literal.String.Double
' '          Text.Whitespace
'on'         Text
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'PYMALLOC'
   Text
' '          Text.Whitespace
'"Use python\'s internal malloc"' Literal.String.Double
' '          Text.Whitespace
'on'         Text
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'IPV6'       Text
' '          Text.Whitespace
'"Enable IPv6 support"' Literal.String.Double
' '          Text.Whitespace
'on'         Text
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'FPECTL'     Text
' '          Text.Whitespace
'"Enable floating point exception handling"' Literal.String.Double
' '          Text.Whitespace
'off'        Text
'\n\n'       Text.Whitespace

'.include <bsd.port.pre.mk>\n' Comment.Preproc

'\n'         Text.Whitespace

'.if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}\n' Comment.Preproc

'MLINKS'     Name.Variable
'='          Operator
'\t\t'       Text.Whitespace
'${'         Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'          Literal.String.Interpol
'.1'
```

Text
' ' Text.Whitespace
'python.1' Text
'\n' Text.Whitespace

'PLIST_SUB' Name.Variable
'+=' Operator
'\t' Text.Whitespace
'IF_DEFAULT' Name.Variable
'=' Operator
'"' Literal.String.Double
'\n' Text.Whitespace

'.else\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+=' Operator
'\t' Text.Whitespace
'IF_DEFAULT' Name.Variable
'=' Operator
'"@comment "' Literal.String.Double
'\n' Text.Whitespace

'.endif\n' Comment.Preproc

'\n' Text.Whitespace

'# workaround for a bug in base curses.h.\n' Comment

'CFLAGS' Name.Variable
'+=' Operator
'\t' Text.Whitespace
'-D__wchar_t' Text
'=' Operator
'wchar_t' Text
'\n' Text.Whitespace

'\n' Text.Whitespace

'.if !defined(WITHOUT_THREADS)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+=' Operator
'\t' Text.Whitespace
'--with-threads'
Text
'\n' Text.Whitespace

```
'CFLAGS'      Name.Variable
'+='          Operator
'\t\t'        Text.Whitespace
'${'          Literal.String.Interpol
'PTHREAD_CFLAGS' Name.Variable
'}'           Literal.String.Interpol
'\n'          Text.Whitespace

'.if defined(WITHOUT_HUGE_STACK_SIZE)\n' Comment.Preproc

'CFLAGS'      Name.Variable
'+='          Operator
'\t\t'        Text.Whitespace
'-DTHREAD_STACK_SIZE' Text
'='           Operator
'0x20000'     Text
'\n'          Text.Whitespace

'.else\n'     Comment.Preproc

'CFLAGS'      Name.Variable
'+='          Operator
'\t\t'        Text.Whitespace
'-DTHREAD_STACK_SIZE' Text
'='           Operator
'0x100000'    Text
'\n'          Text.Whitespace

'.endif # defined(WITHOUT_HUGE_STACK_SIZE)\n' Comment.Preproc

'CONFIGURE_ENV' Name.Variable
'+='          Operator
'\t\t'        Text.Whitespace
'LDFLAGS'     Name.Variable
'='           Operator
''''          Literal.String.Double
'${'          Literal.String.Interpol
'PTHREAD_LIBS'
 Name.Variable
'}'           Literal.String.Interpol
' '           Literal.String.Double
'${'          Literal.String.Interpol
'LDFLAGS'     Name.Variable
'}'           Literal.String.Interpol
''''          Literal.String.Double
'\n'          Text.Whitespace

'.else\n'     Comment.Preproc
```

```
'CONFIGURE_ARGS' Name.Variable
'+='          Operator
'\t'          Text.Whitespace
'--without-threads' Text
'\n'          Text.Whitespace

'.if defined(LDFLAGS)\n' Comment.Preproc

'CONFIGURE_ENV' Name.Variable
'+='          Operator
'\t\t'        Text.Whitespace
'LDFLAGS'     Name.Variable
'='           Operator
'"'           Literal.String.Double
'${'          Literal.String.Interpol
'LDFLAGS'     Name.Variable
'}'           Literal.String.Interpol
'"'           Literal.String.Double
'\n'          Text.Whitespace

'.endif # defined(LDFLAGS)\n' Comment.Preproc

'.endif # !defined(WITHOUT_THREADS)\n' Comment.Preproc

'\n'          Text.Whitespace

'.if !defined(WITHOUT_UCS4) && !defined(WITH_UCS2)\n'
 Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='          Operator
'\t'          Text.Whitespace
'--enable-unicode' Text
'='           Operator
'ucs4'        Text
'\n'          Text.Whitespace

'.endif\n'    Comment.Preproc

'\n'          Text.Whitespace

'.if defined(WITHOUT_PYMALLOC)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='          Operator
'       '     Text.Whitespace
'--without-pymalloc' Text
```

```
'\n'          Text.Whitespace

'.endif\n'    Comment.Preproc

'\n'          Text.Whitespace

'.if ${ARCH} == i386\n' Comment.Preproc

'PLIST_SUB'   Name.Variable
'+='          Operator
'\t'          Text.Whitespace
'X86_ONLY'    Name.Variable
'='           Operator
'"'           Literal.String.Double
'\n'          Text.Whitespace

'.else\n'     Comment.Preproc

'PLIST_SUB'   Name.Variable
'+='          Operator
'\t'          Text.Whitespace
'X86_ONLY'    Name.Variable
'='           Operator
'"@comment " Literal.String.Double
'\n'          Text.Whitespace

'.endif\n'
    Comment.Preproc

'.if ${ARCH} == amd64 || ${ARCH} == ia64 || ${ARCH} == sparc64 || ${ARCH} == alpha\n' Comment.Preproc

'PLIST_SUB'   Name.Variable
'+='          Operator
'    '        Text.Whitespace
'32BIT_ONLY'  Name.Variable
'='           Operator
'"@comment " Literal.String.Double
'\n'          Text.Whitespace

'.else\n'     Comment.Preproc

'PLIST_SUB'   Name.Variable
'+='          Operator
'    '        Text.Whitespace
'32BIT_ONLY'  Name.Variable
'='           Operator
'"'           Literal.String.Double
'\n'          Text.Whitespace
```

```
'.endif\n'    Comment.Preproc

'.if ${ARCH} == sparc64\n' Comment.Preproc

'CFLAGS'      Name.Variable
'+='          Operator
'       '     Text.Whitespace
'-DPYTHON_DEFAULT_RECURSION_LIMIT' Text
'='           Operator
'900'         Literal.Number
'\n'          Text.Whitespace

'.endif\n'    Comment.Preproc

'\n'          Text.Whitespace

'.if !exists(/usr/bin/ypcat) # the world with NO_NIS\n' Comment.Preproc

'PLIST_SUB'   Name.Variable
'+='
          Operator
'\t'          Text.Whitespace
'NO_NIS'      Name.Variable
'='           Operator
'"@comment " Literal.String.Double
'\n'          Text.Whitespace

'.else\n'     Comment.Preproc

'PLIST_SUB'   Name.Variable
'+='          Operator
'\t'          Text.Whitespace
'NO_NIS'      Name.Variable
'='           Operator
'"""          Literal.String.Double
'\n'          Text.Whitespace

'.endif\n'    Comment.Preproc

'\n'          Text.Whitespace

'.if !defined(WITHOUT_IPV6)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='          Operator
' '           Text.Whitespace
'--enable-ipv6' Text
```

```
'\n'          Text.Whitespace

'.else\n'     Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='          Operator
' '           Text.Whitespace
'--disable-ipv6' Text
'\n'          Text.Whitespace

'.endif\n'    Comment.Preproc

'\n'          Text.Whitespace

'.if defined(WITH_FPECTL)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='          Operator
' '           Text.Whitespace
'--with-fpectl'
 Text
'\n'          Text.Whitespace

'.endif\n'    Comment.Preproc

'\n'          Text.Whitespace

'.if ${OSVERSION} >= 700000\n' Comment.Preproc

'PLATFORMS'   Name.Variable
'='           Operator
'plat-freebsd4' Text
' '           Text.Whitespace
'plat-freebsd5' Text
' '           Text.Whitespace
'plat-freebsd6' Text
'\n'          Text.Whitespace

'.elif ${OSVERSION} >= 600000\n' Comment.Preproc

'PLATFORMS'   Name.Variable
'='           Operator
'plat-freebsd4' Text
' '           Text.Whitespace
'plat-freebsd5' Text
' '           Text.Whitespace
'plat-freebsd7' Text
'\n'          Text.Whitespace
```

```
'.else\n'     Comment.Preproc

'PLATFORMS'   Name.Variable
'='           Operator
'plat-freebsd4' Text
' '           Text.Whitespace
'plat-freebsd6' Text
' '           Text.Whitespace
'plat-freebsd7' Text
'\n'          Text.Whitespace

'.endif\n'    Comment.Preproc

'\n'          Text.Whitespace

'pre-patch'   Name.Function
':'           Operator
'\n'          Text.Whitespace

'\t'
          Text.Whitespace
'${'          Literal.String.Interpol
'MKDIR'       Name.Variable
'}'           Literal.String.Interpol
' '           Text.Whitespace
'${'          Literal.String.Interpol
'WRKSRC'      Name.Variable
'}'           Literal.String.Interpol
' '           Text.Whitespace
'${'          Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}'           Literal.String.Interpol
'/Modules'    Text
'\n\t'        Text.Whitespace
'${'          Literal.String.Interpol
'SED'         Name.Variable
'}'           Literal.String.Interpol
' '           Text.Whitespace
'-e'          Text
' '           Text.Whitespace
"'1s,^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION},'" Literal.String.Single
' '           Text.Whitespace
'\\\n'        Literal.String.Escape

'\t\t'        Text.Whitespace
'${'          Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
```

```
'}'          Literal.String.Interpol
'/Tools/scripts/pydoc' Text
' '          Text.Whitespace
'>'          Text
' '
     Text.Whitespace
'${'         Literal.String.Interpol
'WRKDIR'     Name.Variable
'}'          Literal.String.Interpol
'/pydoc2.5'  Text
'\n\t'       Text.Whitespace
'${'         Literal.String.Interpol
'SED'        Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'-e'         Text
' '          Text.Whitespace
'"1s,^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION},"' Literal.String.Single
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'${'         Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'          Literal.String.Interpol
'/Tools/scripts/idle' Text
' '          Text.Whitespace
'>'          Text
' '          Text.Whitespace
'${'         Literal.String.Interpol
'WRKDIR'     Name.Variable
'}'          Literal.String.Interpol
'/idle2.5'   Text
'\n\t'       Text.Whitespace
'${'         Literal.String.Interpol
'SED'        Name.Variable
'}'          Literal.String.Interpol
' '
     Text.Whitespace
'-e'         Text
' '          Text.Whitespace
'"1s,^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION},"' Literal.String.Single
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'${'         Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
```

```
'}'          Literal.String.Interpol
'/Lib/smtpd.py' Text
' '          Text.Whitespace
'>'          Text
' '          Text.Whitespace
'${'         Literal.String.Interpol
'WRKDIR'     Name.Variable
'}'          Literal.String.Interpol
'/smtpd2.5.py' Text
'\n\t'       Text.Whitespace
'${'         Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'-e'         Text
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'"s,/usr/doc/python-docs-,${PREFIX}/share/doc/python,g"' Literal.String.Single
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'
       Text.Whitespace
'${'         Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'          Literal.String.Interpol
'/Lib/pydoc.py' Text
'\n\t'       Text.Whitespace
'${'         Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'-e'         Text
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'\'s|^\\( *prefixes = .*\\)\\]$$|\\1, "${X11BASE}"]|g\'' Literal.String.Single
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'${'         Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'          Literal.String.Interpol
'/Lib/site.py' Text
```

```
'\n\t'       Text.Whitespace
'${'         Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'-e'         Text
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'
 Text.Whitespace
'"s|^\t\\(..ASDLGEN.*\\)$$|\t${TRUE}|g"' Literal.String.Single
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'${'         Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'          Literal.String.Interpol
'/Makefile.pre.in' Text
'\n\n\t'     Text.Whitespace
'${'         Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'-e'         Text
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'"s|*\\(..INSTALL_SCRIPT.*\\)python-config$$|#port \\1|"' Literal.String.Single
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'${'         Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'          Literal.String.Interpol
'/Makefile.pre.in' Text
'\n\n\t'     Text.Whitespace
'${'         Literal.String.Interpol
'SED'        Name.Variable
'}'
   Literal.String.Interpol
' '          Text.Whitespace
'-e'         Text
' '          Text.Whitespace
'"s|^#!.*|#!${PREFIX}/bin/${PYTHON_VERSION}|"' Literal.String.Single
```

```
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'${'         Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'          Literal.String.Interpol
'/Misc/python-config.in' Text
' '          Text.Whitespace
'>'          Text
' '          Text.Whitespace
'${'         Literal.String.Interpol
'WRKDIR'     Name.Variable
'}'          Literal.String.Interpol
'/'          Text
'${'         Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'          Literal.String.Interpol
'-config'    Text
'\n\t'       Text.Whitespace
'${'         Literal.String.Interpol
'SED'        Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'-e'         Text
' '          Text.Whitespace
'"s|^#!.*|#!${PREFIX}/bin/${PYTHON_VERSION:S/thon/thon-shared/}|"'
 Literal.String.Single
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'${'         Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'          Literal.String.Interpol
'/Misc/python-config.in' Text
' '          Text.Whitespace
'>'          Text
' '          Text.Whitespace
'${'         Literal.String.Interpol
'WRKDIR'     Name.Variable
'}'          Literal.String.Interpol
'/'          Text
'${'         Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':'          Punctuation
'S'          Name.Variable
'/thon/thon-shared/' Punctuation
```

```
'}'          Literal.String.Interpol
'-config'     Text
'\n\n'        Text.Whitespace

'.if defined(WITH_FPECTL) && ${ARCH} == i386\n' Comment.Preproc

'\t'          Text.Whitespace
'${'          Literal.String.Interpol
'MKDIR'       Name.Variable
'}'           Literal.String.Interpol
' '           Text.Whitespace
'${'          Literal.String.Interpol
'WRKSRC'      Name.Variable
'}'
          Literal.String.Interpol
'/Modules'    Text
'\n\t'        Text.Whitespace
'${'          Literal.String.Interpol
'ECHO'        Name.Variable
'}'           Literal.String.Interpol
' '           Text.Whitespace
'"fpectl fpectlmodule.c"' Literal.String.Double
' '           Text.Whitespace
'>>'          Text
' '           Text.Whitespace
'${'          Literal.String.Interpol
'WRKSRC'      Name.Variable
'}'           Literal.String.Interpol
'/Modules/Setup.dist' Text
'\n'          Text.Whitespace

'.endif\n'    Comment.Preproc

'\n'          Text.Whitespace

'post-configure' Name.Function
':'           Operator
'\n'          Text.Whitespace

'\t'          Text.Whitespace
'${'          Literal.String.Interpol
'TAR'         Name.Variable
'}'           Literal.String.Interpol
' '           Text.Whitespace
'-C'          Text
' '           Text.Whitespace
'${'          Literal.String.Interpol
'WRKSRC'      Name.Variable
```

```
'}'         Literal.String.Interpol
' '         Text.Whitespace
'-cf'
        Text
' '         Text.Whitespace
'-'         Text
' '         Text.Whitespace
'.'         Text
' '         Text.Whitespace
'|'         Punctuation
' '         Text.Whitespace
'${'        Literal.String.Interpol
'TAR'       Name.Variable
'}'         Literal.String.Interpol
' '         Text.Whitespace
'-C'        Text
' '         Text.Whitespace
'${'        Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}'         Literal.String.Interpol
' '         Text.Whitespace
'-xf'       Text
' '         Text.Whitespace
'-'         Text
'\n\t'      Text.Whitespace
'${'        Literal.String.Interpol
'LN'        Name.Variable
'}'         Literal.String.Interpol
' '         Text.Whitespace
'-sf'       Text
' '         Text.Whitespace
'${'        Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}'         Literal.String.Interpol
'/Lib'      Text
' '         Text.Whitespace
'${'        Literal.String.Interpol
'WRKSRC'
    Name.Variable
'}'         Literal.String.Interpol
'/Lib'      Text
'\n\t'      Text.Whitespace
'${'        Literal.String.Interpol
'SED'       Name.Variable
'}'         Literal.String.Interpol
' '         Text.Whitespace
'-e'        Text
' '         Text.Whitespace
```

```
'"s,^\\(LDLIBRARY=\\).*$$,\\1libpython$$(VERSION).so,'" Literal.String.Single
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'-e'         Text
' '          Text.Whitespace
'"s,^\\(BLDLIBRARY=\\).*$$,\\1-L. -lpython$$(VERSION),'" Literal.String.Single
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'-e'         Text
' '          Text.Whitespace
'"s,^\\(CFLAGSFORSHARED=\\).*$$,\\1$$(CCSHARED),'" Literal.String.Single
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'-e'         Text
' '          Text.Whitespace
'"s,^\\(Makefile Modules/config.c:.*\\)Makefile.pre,\\1,'"
 Literal.String.Single
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'-e'         Text
' '          Text.Whitespace
'"s,^\\(.(BUILDPYTHON)\\: .*\\).(LIBRARY),\\1,'" Literal.String.Single
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'-e'         Text
' '          Text.Whitespace
'"s,^\\(.(BUILDPYTHON):.*\\).(LIBRARY),\\1,'" Literal.String.Single
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'${'         Literal.String.Interpol
'WRKSRC'     Name.Variable
'}'          Literal.String.Interpol
'/Makefile'  Text
' '          Text.Whitespace
'>'          Text
' '          Text.Whitespace
```

```
'${'          Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}'           Literal.String.Interpol
'/Makefile'   Text
'\n\n'        Text.Whitespace

'pre-build'   Name.Function
':'           Operator
'\n'
        Text.Whitespace

'\t'          Text.Whitespace
'cd'          Name.Builtin
' '           Text.Whitespace
'${'          Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}'           Literal.String.Interpol
';'           Punctuation
' '           Text.Whitespace
'\\\n'        Literal.String.Escape

'\t'          Text.Whitespace
'${'          Literal.String.Interpol
'SETENV'      Name.Variable
'}'           Literal.String.Interpol
' '           Text.Whitespace
'${'          Literal.String.Interpol
'MAKE_ENV'    Name.Variable
'}'           Literal.String.Interpol
' '           Text.Whitespace
'${'          Literal.String.Interpol
'MAKE'        Name.Variable
'}'           Literal.String.Interpol
' '           Text.Whitespace
'lib'         Text
'${'          Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'           Literal.String.Interpol
'.so'         Text
' '           Text.Whitespace
'python'      Text
';'           Punctuation
' '           Text.Whitespace
'\\\n'
        Literal.String.Escape

'\t'          Text.Whitespace
'${'          Literal.String.Interpol
```

```
'LN'          Name.Variable
'}'           Literal.String.Interpol
' '           Text.Whitespace
'-f'          Text
' '           Text.Whitespace
'lib'         Text
'${'          Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'           Literal.String.Interpol
'.so'         Text
' '           Text.Whitespace
'lib'         Text
'${'          Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'           Literal.String.Interpol
'.so.1'       Text
';'           Punctuation
' '           Text.Whitespace
'\\\n'        Literal.String.Escape

'\t'          Text.Whitespace
'${'          Literal.String.Interpol
'LN'          Name.Variable
'}'           Literal.String.Interpol
' '           Text.Whitespace
'-f'          Text
' '           Text.Whitespace
'python'      Text
' '           Text.Whitespace
'${'          Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':'
  Punctuation
'S'           Name.Variable
'/thon/thon-shared/' Punctuation
'}'           Literal.String.Interpol
'\n\n'        Text.Whitespace

'pre-su-install' Name.Function
':'           Operator
'\n'          Text.Whitespace

'.for platform in ${PLATFORMS}\n' Comment.Preproc

'\t'          Text.Whitespace
'${'          Literal.String.Interpol
'MKDIR'       Name.Variable
'}'           Literal.String.Interpol
```

```
' '          Text.Whitespace
'${'         Literal.String.Interpol
'PYTHONPREFIX_LIBDIR' Name.Variable
'}'          Literal.String.Interpol
'/'          Text
'${'         Literal.String.Interpol
'platform'   Name.Variable
'}'          Literal.String.Interpol
'\n'         Text.Whitespace

'.for file in IN.py regen\n' Comment.Preproc

'\t'         Text.Whitespace
'${'         Literal.String.Interpol
'INSTALL_DATA' Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'${'         Literal.String.Interpol
'WRKSRC'     Name.Variable
'}'
 Literal.String.Interpol
'/Lib/'      Text
'${'         Literal.String.Interpol
'platform'   Name.Variable
'}'          Literal.String.Interpol
'/'          Text
'${'         Literal.String.Interpol
'file'       Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'${'         Literal.String.Interpol
'PYTHONPREFIX_LIBDIR' Name.Variable
'}'          Literal.String.Interpol
'/'          Text
'${'         Literal.String.Interpol
'platform'   Name.Variable
'}'          Literal.String.Interpol
'/'          Text
'\n'         Text.Whitespace

'.endfor\n'  Comment.Preproc

'.endfor\n'  Comment.Preproc

'\n'         Text.Whitespace
```

```
'pre-install' Name.Function
':'          Operator
'\n'         Text.Whitespace

'\t'         Text.Whitespace
'${'         Literal.String.Interpol
'CAT'        Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'${'
     Literal.String.Interpol
'PLIST_TEMPLATE' Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'|'          Punctuation
' '          Text.Whitespace
'${'         Literal.String.Interpol
'AWK'        Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'\'{ print $$0; } \\\n\t/LIBDIR.*\\.py$$/ && !/\\/bad/ { print $$0 "o"; print $$0 "c"; }\" Literal.String.Single
'\t'         Text.Whitespace
'>'          Text
' '          Text.Whitespace
'${'         Literal.String.Interpol
'PLIST'      Name.Variable
'}'          Literal.String.Interpol
'\n\n'       Text.Whitespace

"\t@# if openssl 0.9.8 is detected, _sha{256,512} module won't be installed\n" Comment

'\t'         Text.Whitespace
'('          Operator
'['          Operator
' '          Text.Whitespace
'-f'         Text
' '          Text.Whitespace
'${'         Literal.String.Interpol
'WRKSRC'     Name.Variable
'}'          Literal.String.Interpol
'/.without_own_sha'
 Text
' '          Text.Whitespace
']'          Operator
' '          Text.Whitespace
'&&'         Operator
' '          Text.Whitespace
```

```
'\\\n'        Literal.String.Escape

'\t\t'        Text.Whitespace
'${'          Literal.String.Interpol
'GREP'        Name.Variable
'}'           Literal.String.Interpol
' '           Text.Whitespace
'-v'          Text
' '           Text.Whitespace
'''lib-dynload/_sha''' Literal.String.Single
' '           Text.Whitespace
'${'          Literal.String.Interpol
'PLIST'       Name.Variable
'}'           Literal.String.Interpol
' '           Text.Whitespace
'>'           Text
' '           Text.Whitespace
'${'          Literal.String.Interpol
'PLIST'       Name.Variable
'}'           Literal.String.Interpol
'.tmp'        Text
' '           Text.Whitespace
'&&'          Operator
' '           Text.Whitespace
'\\\n'        Literal.String.Escape

'\t\t'        Text.Whitespace
'${'          Literal.String.Interpol
'CAT'         Name.Variable
'}'
          Literal.String.Interpol
' '           Text.Whitespace
'${'          Literal.String.Interpol
'PLIST'       Name.Variable
'}'           Literal.String.Interpol
'.tmp'        Text
' '           Text.Whitespace
'>'           Text
' '           Text.Whitespace
'${'          Literal.String.Interpol
'PLIST'       Name.Variable
'}'           Literal.String.Interpol
')'           Operator
' '           Text.Whitespace
'||'          Operator
' '           Text.Whitespace
'${'          Literal.String.Interpol
'TRUE'        Name.Variable
```

'}' Literal.String.Interpol
'\n\n' Text.Whitespace

'post-install' Name.Function
':' Operator
'\n' Text.Whitespace

'\t@# install config providers\n' Comment

'\t' Text.Whitespace
'${' Literal.String.Interpol
'INSTALL_SCRIPT' Name.Variable
'}' Literal.String.Interpol
' ' Text.Whitespace
'${' Literal.String.Interpol
'WRKDIR' Name.Variable
'}' Literal.String.Interpol
'/'
Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'-config' Text
' ' Text.Whitespace
'${' Literal.String.Interpol
'PREFIX' Name.Variable
'}' Literal.String.Interpol
'/bin' Text
'\n\t' Text.Whitespace
'${' Literal.String.Interpol
'INSTALL_SCRIPT' Name.Variable
'}' Literal.String.Interpol
' ' Text.Whitespace
'${' Literal.String.Interpol
'WRKDIR' Name.Variable
'}' Literal.String.Interpol
'/' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':' Punctuation
'S' Name.Variable
'/thon/thon-shared/' Punctuation
'}' Literal.String.Interpol
'-config' Text
' ' Text.Whitespace
'${' Literal.String.Interpol
'PREFIX' Name.Variable
'}' Literal.String.Interpol

```
'/bin'        Text
'\n\n'        Text.Whitespace

'\t@#
 shared version of executable and library\n' Comment

'\t'          Text.Whitespace
'${'          Literal.String.Interpol
'INSTALL_PROGRAM' Name.Variable
'}'           Literal.String.Interpol
' '           Text.Whitespace
'${'          Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}'           Literal.String.Interpol
'/lib'        Text
'${'          Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'           Literal.String.Interpol
'.so.1'       Text
' '           Text.Whitespace
'\\\n'        Literal.String.Escape

'\t\t'        Text.Whitespace
'${'          Literal.String.Interpol
'PREFIX'      Name.Variable
'}'           Literal.String.Interpol
'/lib'        Text
'\n\t'        Text.Whitespace
'cd'          Name.Builtin
' '           Text.Whitespace
'${'          Literal.String.Interpol
'PREFIX'      Name.Variable
'}'           Literal.String.Interpol
'/lib'        Text
';'           Punctuation
' '           Text.Whitespace
'${'          Literal.String.Interpol
'LN'
          Name.Variable
'}'           Literal.String.Interpol
' '           Text.Whitespace
'-sf'         Text
' '           Text.Whitespace
'lib'         Text
'${'          Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'           Literal.String.Interpol
'.so.1'       Text
```

```
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'lib'        Text
'${'         Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'          Literal.String.Interpol
'.so'        Text
'\n\t'       Text.Whitespace
'${'         Literal.String.Interpol
'LN'         Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'-sf'        Text
' '          Text.Whitespace
'${'         Literal.String.Interpol
'PREFIX'     Name.Variable
'}'          Literal.String.Interpol
'/lib/lib'   Text
'${'         Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'          Literal.String.Interpol
'.so'        Text
' '
      Text.Whitespace
'${'         Literal.String.Interpol
'PYTHONPREFIX_LIBDIR' Name.Variable
'}'          Literal.String.Interpol
'/config'    Text
'\n\t'       Text.Whitespace
'${'         Literal.String.Interpol
'INSTALL_PROGRAM' Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'${'         Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'}'          Literal.String.Interpol
'/'          Text
'${'         Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':'          Punctuation
'S'          Name.Variable
'/thon/thon-shared/' Punctuation
'}'          Literal.String.Interpol
```

```
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'${'         Literal.String.Interpol
'PREFIX'     Name.Variable
'}'          Literal.String.Interpol
'/bin'       Text
'\n\n'       Text.Whitespace

'\t@# additional files installing by ports\n'
 Comment

'\t'         Text.Whitespace
'${'         Literal.String.Interpol
'INSTALL_SCRIPT' Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'${'         Literal.String.Interpol
'WRKDIR'     Name.Variable
'}'          Literal.String.Interpol
'/pydoc2.5'   Text
' '          Text.Whitespace
'${'         Literal.String.Interpol
'WRKDIR'     Name.Variable
'}'          Literal.String.Interpol
'/idle2.5'    Text
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'${'         Literal.String.Interpol
'WRKDIR'     Name.Variable
'}'          Literal.String.Interpol
'/smtpd2.5.py' Text
' '          Text.Whitespace
'${'         Literal.String.Interpol
'PREFIX'     Name.Variable
'}'          Literal.String.Interpol
'/bin'       Text
'\n\t'       Text.Whitespace
'@'          Text
'${'         Literal.String.Interpol
'MKDIR'      Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'${'
```

Literal.String.Interpol
'MANPREFIX' Name.Variable
'}' Literal.String.Interpol
'/man/man1' Text
'\n\t' Text.Whitespace
'${' Literal.String.Interpol
'INSTALL_MAN' Name.Variable
'}' Literal.String.Interpol
' ' Text.Whitespace
'${' Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Misc/python.man' Text
' ' Text.Whitespace
'\\\n' Literal.String.Escape

'\t\t' Text.Whitespace
'${' Literal.String.Interpol
'MANPREFIX' Name.Variable
'}' Literal.String.Interpol
'/man/man1/' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}' Literal.String.Interpol
'.1' Text
'\n\n' Text.Whitespace

'.if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}\n' Comment.Preproc

'\t' Text.Whitespace
'for' Keyword
' ' Text.Whitespace
'f' Text
' ' Text.Whitespace
'in'
Keyword
' ' Text.Whitespace
'${' Literal.String.Interpol
'BIN_SCRIPTS' Name.Variable
'}' Literal.String.Interpol
';' Punctuation
' ' Text.Whitespace
'do' Keyword
' ' Text.Whitespace
'\\\n' Literal.String.Escape

'\t\t' Text.Whitespace
'TARGET' Name.Variable

```
'='          Operator
'`'          Literal.String.Backtick
'${'         Literal.String.Interpol
'ECHO_CMD'   Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'$$'         Name.Variable
'f'          Text
' '          Text.Whitespace
'|'          Punctuation
' '          Text.Whitespace
'${'         Literal.String.Interpol
'SED'        Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'-E'         Text
' '          Text.Whitespace
'${'         Literal.String.Interpol
'BINLINKS_SUB' Name.Variable
'}'          Literal.String.Interpol
'`'          Literal.String.Backtick
';'
          Punctuation
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'cd'         Name.Builtin
' '          Text.Whitespace
'${'         Literal.String.Interpol
'PREFIX'     Name.Variable
'}'          Literal.String.Interpol
'/bin'       Text
' '          Text.Whitespace
'&&'         Operator
' '          Text.Whitespace
'${'         Literal.String.Interpol
'LN'         Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'-f'         Text
' '          Text.Whitespace
'$$'         Name.Variable
'TARGET'     Text
' '          Text.Whitespace
'$$'         Name.Variable
'f'          Text
';'          Punctuation
```

```
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t'         Text.Whitespace
'done'       Keyword
'\n'         Text.Whitespace

'.endif\n'   Comment.Preproc

'\n'         Text.Whitespace

'.if !defined(NOPORTDOCS)\n' Comment.Preproc

'\t'
        Text.Whitespace
'@'          Text
'${'         Literal.String.Interpol
'MKDIR'      Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'${'         Literal.String.Interpol
'TOOLSDIR'   Name.Variable
'}'          Literal.String.Interpol
'\n\t'       Text.Whitespace
'@cd'        Text
' '          Text.Whitespace
'${'         Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}'          Literal.String.Interpol
';'          Punctuation
' '          Text.Whitespace
'${'         Literal.String.Interpol
'TAR'        Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'-cf'        Text
' '          Text.Whitespace
'-'          Text
' '          Text.Whitespace
'Tools'      Text
' '          Text.Whitespace
'|'          Punctuation
' '          Text.Whitespace
'\\\n'       Literal.String.Escape

'\t\t'       Text.Whitespace
'('          Operator
'cd'         Name.Builtin
```

```
' '          Text.Whitespace
'${'
         Literal.String.Interpol
'TOOLSDIR'    Name.Variable
'}'          Literal.String.Interpol
';'          Punctuation
' '          Text.Whitespace
'${'         Literal.String.Interpol
'TAR'        Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'-xf'        Text
' '          Text.Whitespace
'-'          Text
')'          Operator
'\n\t'       Text.Whitespace
'@'          Text
'${'         Literal.String.Interpol
'MKDIR'      Name.Variable
'}'          Literal.String.Interpol
' '          Text.Whitespace
'${'         Literal.String.Interpol
'DEMODIR'    Name.Variable
'}'          Literal.String.Interpol
'\n\t'       Text.Whitespace
'@cd'        Text
' '          Text.Whitespace
'${'         Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}'          Literal.String.Interpol
'/Demo'      Text
';'          Punctuation
' '          Text.Whitespace
'${'         Literal.String.Interpol
'TAR'        Name.Variable
'}'
         Literal.String.Interpol
' '          Text.Whitespace
'-cf'        Text
' '          Text.Whitespace
'-'          Text
' '          Text.Whitespace
'*'          Text
' '          Text.Whitespace
'|'          Punctuation
' '          Text.Whitespace
'\\\n'       Literal.String.Escape
```

```
'\t\t'        Text.Whitespace
'('           Operator
'cd'          Name.Builtin
' '           Text.Whitespace
'${'          Literal.String.Interpol
'DEMODIR'     Name.Variable
'}'           Literal.String.Interpol
';'           Punctuation
' '           Text.Whitespace
'${'          Literal.String.Interpol
'TAR'         Name.Variable
'}'           Literal.String.Interpol
' '           Text.Whitespace
'-xf'         Text
' '           Text.Whitespace
'-'           Text
')'           Operator
'\n'          Text.Whitespace

'.endif\n'    Comment.Preproc

'\n\t'        Text.Whitespace
'@'           Text
'${'          Literal.String.Interpol
'CAT'         Name.Variable
'}'
     Literal.String.Interpol
' '           Text.Whitespace
'${'          Literal.String.Interpol
'PKGMESSAGE'  Name.Variable
'}'           Literal.String.Interpol
'\n\n'        Text.Whitespace

'.include <bsd.port.post.mk>\n' Comment.Preproc
# Step 1 of 3: from Hakaru to Maple LO (linear operator)

toLO := module()
 export
 ModuleApply := proc(m, $)
   local h;
   h := gensym('h');
   _Env_HakaruSolve := false;
   LO(h, integrate(m, h, []))
 end proc;

 export
 integrate := proc(m, h, loops :: list(name = range) := [], $)
   local x, n, i, res, l, br, m0;
```

```
  if m :: known_continuous then
    integrate_known(Int, Ints, 'xx', m, h, loops)
  elif m :: known_discrete then
    integrate_known(Sum, Sums, 'kk', m, h, loops)
  elif m :: 'Ret(anything)' then
    applyintegrand(h, mk_ary(op(1,m), loops))
  elif m :: 'Bind(anything, name, anything)' then
    res := eval(op(3,m), op(2,m) = mk_idx(op(2,m), loops));
    res := eval(Integrand(op(2,m), 'integrate'(res, x, loops)), x=h);
    integrate(op(1,m), res, loops);
  elif m :: 'specfunc(Msum)' and (nops(loops) = 0 or nops(m) = 1) then
    `+`(op(map(integrate, [op(m)], h, loops)))
  elif m :: 'Weight(anything, anything)' then
    foldl(product,
 op(1,m), op(loops)) * integrate(op(2,m), h, loops)
  elif m :: t_pw_or_part then
    Partition:-AppPartOrPw
              ( proc(p)
                  if not Partition:-ConditionsDepend(p, lhs~(loops)) then
                      Partition:-Pmap(z->integrate(z,h,loops),p)
                  end if;
                end proc
              , m, ['no_split_disj']);
  elif m :: t_case and not depends(op(1,m), map(lhs, loops)) then
    subsop(2=map(proc(b :: Branch(anything, anything))
                eval(subsop(2='integrate'(op(2,b), x, loops),b), x=h)
              end proc,
              op(2,m)),
          m);
  elif m :: 'LO(name, anything)' then
    eval(op(2,m), op(1,m) = h)
  elif m :: 'Plate(nonnegint, name, anything)' then
    # Unroll Plate when the bound is known. We unroll Plate here (instead
    # of unrolling Ints in reduce, for example) because we have no other
    # way to integrate certain Plates, namely those whose
 bodies' control
    # flows depend on the index.
    x := mk_sym('pp', h);
    x := [seq(cat(x,i), i=0..op(1,m)-1)];
    if op(1,m) = 0 then
      res := undefined;
    else
      if op(1,m) = 1 then
        res := op(1,x);
      else
         res := idx(x,op(2,m));
#         res := piecewise(seq(op([op(2,m)=i-1, op(i,x)]), i=2..op(1,m)),
```

```
#                       op(1,x));
      end if;
      res := mk_idx(res, loops);
    end if;
    res := applyintegrand(h, mk_ary('ary'(op(1,m), op(2,m), res), loops));
    for i from op(1,m) to 1 by -1 do
      res := integrate(eval(op(3,m), op(2,m)=i-1),
                    Integrand(op(i,x), res), loops);
    end do;
    res
  elif m :: 'Plate(anything, name, anything)' then
    integrate(op(3,m), h, [op(2,m)=0..op(1,m)-1, op(loops)])
  elif m :: 'Context(anything, anything)' then
    applyop(integrate, 2, m, h, loops)
  elif h :: appliable then
    x := gensym('xa');
    'integrate'(m, Integrand(x,
 h(x)), loops)
  else
    'procname(_passed)'
  end if
 end proc;



 local
 integrate_known := proc(make, makes, var, m, h, loops :: list(name=range), $)
  local x, dens, bds;
  x := mk_sym(var, h);
  dens := density[op(0,m)](op(m));
  bds := bounds[op(0,m)](op(m));
  if loops = [] then
    make(dens(x) * applyintegrand(h, x), x = bds);
  else
    makes(foldl(product, dens(mk_idx(x,loops)), op(loops))
          * applyintegrand(h, x),
         x, bds, loops)
  end if;
 end proc;
end module; #toLO
'# Teach Maple (through depends and eval) about our new binding forms.\n' Comment.Single

'# forall bind from 1st arg to 2nd arg.\n' Comment.Single

'# Ints,Sums,ints,sums bind from 2nd arg to 1st arg, and also from each element\n' Comment.Single

'#   of the 4th arg to the other elements on the left and to the 3rd arg.\n' Comment.Single

'\n'         Text.Whitespace
```

```
'`depends/forall`' Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'proc'       Keyword
'('          Punctuation
'bvar'       Name
','          Operator
' '          Text.Whitespace
'pred'       Name
','          Operator
' '          Text.Whitespace
'x'          Name
','          Operator
' '          Text.Whitespace
'$'          Operator
')'          Punctuation
'\n  '       Text.Whitespace
'depends'    Name
'('          Punctuation
'pred'       Name
','          Operator
' '          Text.Whitespace
'x'          Name
' '          Text.Whitespace
'minus'
  Keyword
' '          Text.Whitespace
'convert'    Name.Builtin
'('          Punctuation
'bvar'       Name
','          Operator
' '          Text.Whitespace
'"'          Punctuation
'set'        Name
'"'          Punctuation
'))'         Punctuation
'\n'         Text.Whitespace

'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
':'          Operator
'\n\n'       Text.Whitespace

'`depends/Ints`' Name
' '          Text.Whitespace
```

```
':='        Operator
' '         Text.Whitespace
'proc'      Keyword
'('         Punctuation
'body'      Name
','         Operator
' '         Text.Whitespace
'bvar'      Name
','         Operator
' '         Text.Whitespace
'rng'       Name
','         Operator
' '         Text.Whitespace
'loops'     Name
','         Operator
' '         Text.Whitespace
'x'         Name
','         Operator
' '         Text.Whitespace
'y'         Name
','         Operator
' '         Text.Whitespace
'$'
         Operator
')'         Punctuation
'\n  '      Text.Whitespace
'local'     Keyword
' '         Text.Whitespace
'xx'        Name
','         Operator
' '         Text.Whitespace
'i'         Name
';'         Punctuation
'\n  '      Text.Whitespace
'if'        Keyword
' '         Text.Whitespace
'nargs'     Name
' '         Text.Whitespace
'='         Operator
' '         Text.Whitespace
'5'         Literal.Number.Integer
' '         Text.Whitespace
'then'      Keyword
'\n    '    Text.Whitespace
'xx'        Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
```

```
'x'          Name
';'          Punctuation
' '          Text.Whitespace
'# y is ununsed and x lists the variables to look for\n' Comment.Single

'  '         Text.Whitespace
'else'       Keyword
'\n    '     Text.Whitespace
'xx'         Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'y'
     Name
';'          Punctuation
' '          Text.Whitespace
'# x is some KB and y lists the variables to look for\n' Comment.Single

'    '       Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'depends'    Name
'('          Punctuation
'x'          Name
','          Operator
' '          Text.Whitespace
'y'          Name
')'          Punctuation
' '          Text.Whitespace
'then'       Keyword
' '          Text.Whitespace
'return'     Keyword
' '          Text.Whitespace
'true'       Name
' '          Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n  '       Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n  '       Text.Whitespace
"# don't remove bvar from xx!\n" Comment.Single

'  '         Text.Whitespace
```

```
'if'          Keyword
' '          Text.Whitespace
'depends'     Name
'('          Punctuation
'body'
        Name
','          Operator
' '          Text.Whitespace
'xx'          Name
' '          Text.Whitespace
'minus'       Keyword
' '          Text.Whitespace
'{'          Punctuation
'bvar'        Name
'})'         Punctuation
' '          Text.Whitespace
'then'        Keyword
' '          Text.Whitespace
'return'      Keyword
' '          Text.Whitespace
'true'        Name
' '          Text.Whitespace
'end'         Keyword
' '          Text.Whitespace
'if'          Keyword
';'          Punctuation
'\n  '        Text.Whitespace
'for'         Keyword
' '          Text.Whitespace
'i'          Name
' '          Text.Whitespace
'from'        Keyword
' '          Text.Whitespace
'nops'        Name.Builtin
'('          Punctuation
'loops'       Name
')'          Punctuation
' '          Text.Whitespace
'to'          Keyword
' '          Text.Whitespace
'1'          Literal.Number.Integer
' '          Text.Whitespace
'by'          Keyword
' '          Text.Whitespace
'-'
          Operator
'1'          Literal.Number.Integer
' '          Text.Whitespace
```

```
'do'          Keyword
'\n    '      Text.Whitespace
'if'          Keyword
' '           Text.Whitespace
'depends'     Name
'('           Punctuation
'op'          Name.Builtin
'(['          Punctuation
'i'           Name
','           Operator
'2'           Literal.Number.Integer
']'           Punctuation
','           Operator
'loops'       Name
')'           Punctuation
','           Operator
' '           Text.Whitespace
'xx'          Name
')'           Punctuation
' '           Text.Whitespace
'then'        Keyword
' '           Text.Whitespace
'return'      Keyword
' '           Text.Whitespace
'true'        Name
' '           Text.Whitespace
'end'         Keyword
' '           Text.Whitespace
'if'          Keyword
';'           Punctuation
'\n    '      Text.Whitespace
'xx'          Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'xx'
   Name
' '           Text.Whitespace
'minus'       Keyword
' '           Text.Whitespace
'{'           Punctuation
'op'          Name.Builtin
'(['          Punctuation
'i'           Name
','           Operator
'1'           Literal.Number.Integer
']'           Punctuation
','           Operator
```

```
'loops'       Name
')};'         Punctuation
'\n  '        Text.Whitespace
'end'         Keyword
' '           Text.Whitespace
'do'          Keyword
';'           Punctuation
'\n  '        Text.Whitespace
'depends'     Name
'('           Punctuation
'rng'         Name
','           Operator
' '           Text.Whitespace
'xx'          Name
')'           Punctuation
'\n'          Text.Whitespace

'end'         Keyword
' '           Text.Whitespace
'proc'        Keyword
':'           Operator
'\n'          Text.Whitespace

'`depends/Sums`' Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'eval'        Name.Builtin
'('           Punctuation
'`depends/Ints`' Name
')'
          Punctuation
':'           Operator
'\n'          Text.Whitespace

'`depends/ints`' Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'eval'        Name.Builtin
'('           Punctuation
'`depends/Ints`' Name
')'           Punctuation
':'           Operator
'\n'          Text.Whitespace

'`depends/sums`' Name
' '           Text.Whitespace
```

```
':='          Operator
' '           Text.Whitespace
'eval'        Name.Builtin
'('           Punctuation
'`depends/Ints`' Name
')'           Punctuation
':'           Operator
'\n\n'        Text.Whitespace

'`eval/forall`' Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'proc'        Keyword
'('           Punctuation
'e'           Name
','           Operator
' '           Text.Whitespace
'eqs'         Name
','           Operator
' '           Text.Whitespace
'$'           Operator
')'           Punctuation
'\n  '        Text.Whitespace
'local'       Keyword
'
 '            Text.Whitespace
'bvar'        Name
','           Operator
' '           Text.Whitespace
'pred'        Name
';'           Punctuation
'\n  '        Text.Whitespace
'bvar'        Name
','           Operator
' '           Text.Whitespace
'pred'        Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'op'          Name.Builtin
'('           Punctuation
'e'           Name
');'          Punctuation
'\n  '        Text.Whitespace
'eval'        Name.Builtin
'('           Punctuation
'op'          Name.Builtin
```

```
'('          Punctuation
'0'          Literal.Number.Integer
','          Operator
'e'          Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'eqs'        Name
')('         Punctuation
'BindingTools' Name
':'          Operator
'-'          Operator
'generic_evalat' Name
'('          Punctuation
'bvar'       Name
','          Operator
' '          Text.Whitespace
'pred'       Name
','
      Operator
' '          Text.Whitespace
'eqs'        Name
'))'         Punctuation
'\n'         Text.Whitespace

'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
':'          Operator
'\n\n'       Text.Whitespace

'`eval/Ints`' Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'proc'       Keyword
'('          Punctuation
'e'          Name
','          Operator
' '          Text.Whitespace
'eqs'        Name
','          Operator
' '          Text.Whitespace
'$'          Operator
')'          Punctuation
'\n  '       Text.Whitespace
'local'      Keyword
' '          Text.Whitespace
```

```
'body'      Name
','         Operator
' '         Text.Whitespace
'bvar'      Name
','         Operator
' '         Text.Whitespace
'rng'       Name
','         Operator
' '         Text.Whitespace
'loops'     Name
','         Operator
' '         Text.Whitespace
'n'         Name
','         Operator
'
 '          Text.Whitespace
'i'         Name
';'         Punctuation
'\n  '      Text.Whitespace
'body'      Name
','         Operator
' '         Text.Whitespace
'bvar'      Name
','         Operator
' '         Text.Whitespace
'rng'       Name
','         Operator
' '         Text.Whitespace
'loops'     Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'op'        Name.Builtin
'('         Punctuation
'1'         Literal.Number.Integer
'..'        Punctuation
'4'         Literal.Number.Integer
','         Operator
' '         Text.Whitespace
'e'         Name
');'        Punctuation
'\n  '      Text.Whitespace
'bvar'      Name
','         Operator
' '         Text.Whitespace
'body'      Name
' '         Text.Whitespace
':='        Operator
```

```
' '          Text.Whitespace
'BindingTools' Name
':'          Operator
'-'          Operator
'generic_evalat' Name
'('          Punctuation
'bvar'
       Name
','          Operator
' '          Text.Whitespace
'body'       Name
','          Operator
' '          Text.Whitespace
'eqs'        Name
');'         Punctuation
'\n  '       Text.Whitespace
'eval'       Name.Builtin
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'0'          Literal.Number.Integer
','          Operator
'e'          Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'eqs'        Name
')('         Punctuation
'body'       Name
','          Operator
' '          Text.Whitespace
'bvar'       Name
','          Operator
'\n                  ' Text.Whitespace
'BindingTools' Name
':'          Operator
'-'          Operator
'generic_evalatstar' Name
'('          Punctuation
'rng'        Name
','          Operator
' '          Text.Whitespace
'loops'      Name
','          Operator
' '          Text.Whitespace
'eqs'        Name
')'          Punctuation
','
```

```
  Operator
'\n                    ' Text.Whitespace
'op'          Name.Builtin
'('           Punctuation
'5'           Literal.Number.Integer
'..'          Punctuation
'-'           Operator
'1'           Literal.Number.Integer
','           Operator
'e'           Name
'))'          Punctuation
'\n'          Text.Whitespace

'end'         Keyword
' '           Text.Whitespace
'proc'        Keyword
':'           Operator
'\n'          Text.Whitespace

'`eval/Sums`' Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'eval'        Name.Builtin
'('           Punctuation
'`eval/Ints`' Name
')'           Punctuation
':'           Operator
'\n'          Text.Whitespace

'`eval/ints`' Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'eval'        Name.Builtin
'('           Punctuation
'`eval/Ints`' Name
')'           Punctuation
':'           Operator
'\n'          Text.Whitespace

'`eval/sums`' Name
' '           Text.Whitespace
':='
          Operator
' '           Text.Whitespace
'eval'        Name.Builtin
'('           Punctuation
```

```
'`eval/Ints`' Name
')'          Punctuation
':'          Operator
'\n\n'       Text.Whitespace

'`eval/Int`'  Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'proc'       Keyword
'('          Punctuation
'e'          Name
','          Operator
' '          Text.Whitespace
'eqs'        Name
','          Operator
' '          Text.Whitespace
'$'          Operator
')'          Punctuation
'\n  '       Text.Whitespace
'local'      Keyword
' '          Text.Whitespace
'body'       Name
','          Operator
' '          Text.Whitespace
'bound'      Name
','          Operator
' '          Text.Whitespace
'bvar'       Name
';'          Punctuation
'\n  '       Text.Whitespace
'body'       Name
','          Operator
' '          Text.Whitespace
'bound'      Name
' '          Text.Whitespace
':='         Operator
'
 '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'1'          Literal.Number.Integer
'..'         Punctuation
'2'          Literal.Number.Integer
','          Operator
' '          Text.Whitespace
'e'          Name
');'         Punctuation
```

```
'\n  '        Text.Whitespace
'if'          Keyword
' '           Text.Whitespace
'bound'       Name
' '           Text.Whitespace
'::'          Operator
' '           Text.Whitespace
'name'        Name
' '           Text.Whitespace
'then'        Keyword
'\n    '      Text.Whitespace
'bound'       Name
','           Operator
' '           Text.Whitespace
'body'        Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'BindingTools' Name
':'           Operator
'-'           Operator
'generic_evalat' Name
'('           Punctuation
'bound'       Name
','           Operator
' '           Text.Whitespace
'body'        Name
','           Operator
' '           Text.Whitespace
'eqs'
         Name
');'          Punctuation
'\n  '        Text.Whitespace
'elif'        Keyword
' '           Text.Whitespace
'bound'       Name
' '           Text.Whitespace
'::'          Operator
' '           Text.Whitespace
'`=`'         Name
' '           Text.Whitespace
'then'        Keyword
'\n    '      Text.Whitespace
'bvar'        Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'lhs'         Name.Builtin
```

```
'('          Punctuation
'bound'      Name
');'         Punctuation
'\n    '     Text.Whitespace
'bvar'       Name
','          Operator
' '          Text.Whitespace
'body'       Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'BindingTools' Name
':'          Operator
'-'          Operator
'generic_evalat' Name
'('          Punctuation
'bvar'       Name
','          Operator
' '          Text.Whitespace
'body'       Name
','          Operator
' '          Text.Whitespace
'eqs'
        Name
');'         Punctuation
'\n    '     Text.Whitespace
'bound'      Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'bvar'       Name
' '          Text.Whitespace
'='          Operator
' '          Text.Whitespace
'eval'       Name.Builtin
'('          Punctuation
'rhs'        Name.Builtin
'('          Punctuation
'bound'      Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'eqs'        Name
');'         Punctuation
'\n  '       Text.Whitespace
'else'       Keyword
'\n    '     Text.Whitespace
'body'       Name
```

```
','         Operator
' '         Text.Whitespace
'bound'     Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'BindingTools' Name
':'         Operator
'-'         Operator
'generic_evalatstar' Name
'('         Punctuation
'body'      Name
','         Operator
' '         Text.Whitespace
'bound'     Name
','
  Operator
' '         Text.Whitespace
'eqs'       Name
');'        Punctuation
'\n  '      Text.Whitespace
'end'       Keyword
' '         Text.Whitespace
'if'        Keyword
';'         Punctuation
'\n  '      Text.Whitespace
'eval'      Name.Builtin
'('         Punctuation
'op'        Name.Builtin
'('         Punctuation
'0'         Literal.Number.Integer
','         Operator
'e'         Name
')'         Punctuation
','         Operator
' '         Text.Whitespace
'eqs'       Name
')('        Punctuation
'body'      Name
','         Operator
' '         Text.Whitespace
'bound'     Name
','         Operator
' '         Text.Whitespace
'op'        Name.Builtin
'('         Punctuation
'eval'      Name.Builtin
'(['        Punctuation
```

```
'op'        Name.Builtin
'('         Punctuation
'3'         Literal.Number.Integer
'..'        Punctuation
'-'         Operator
'1'         Literal.Number.Integer
','         Operator
'e'
         Name
')]'        Punctuation
','         Operator
' '         Text.Whitespace
'eqs'       Name
')))'       Punctuation
'\n'        Text.Whitespace

'end'       Keyword
' '         Text.Whitespace
'proc'      Keyword
':'         Operator
'\n'        Text.Whitespace

'`eval/Sum`'  Name
'    '      Text.Whitespace
':='        Operator
' '         Text.Whitespace
'eval'      Name.Builtin
'('         Punctuation
'`eval/Int`'  Name
')'         Punctuation
':'         Operator
'\n'        Text.Whitespace

'`eval/Product`' Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'eval'      Name.Builtin
'('         Punctuation
'`eval/Int`'  Name
')'         Punctuation
':'         Operator
'\n'        Text.Whitespace

'`eval/int`'  Name
'    '      Text.Whitespace
':='        Operator
' '         Text.Whitespace
```

```
'eval'        Name.Builtin
'('           Punctuation
'`eval/Int`'  Name
')'
      Punctuation
':'           Operator
'\n'          Text.Whitespace

'`eval/sum`'  Name
'    '        Text.Whitespace
':='          Operator
' '           Text.Whitespace
'eval'        Name.Builtin
'('           Punctuation
'`eval/Int`'  Name
')'           Punctuation
':'           Operator
'\n'          Text.Whitespace

'`eval/product`' Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'eval'        Name.Builtin
'('           Punctuation
'`eval/Int`'  Name
')'           Punctuation
':'           Operator
'\n\n'        Text.Whitespace

'##############################################################################\n' Comment.Single

'\n'          Text.Whitespace

'Loop'        Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'module'      Keyword
' '           Text.Whitespace
'()'          Punctuation
'\n  '        Text.Whitespace
'option'      Keyword
' '           Text.Whitespace
'package'     Name
';'
      Punctuation
'\n  '        Text.Whitespace
```

```
'local'       Keyword
' '           Text.Whitespace
'intssums'    Name
','           Operator
' '           Text.Whitespace
'enter_piecewise' Name
','           Operator
' '           Text.Whitespace
'wrap'        Name
','           Operator
'\n        '  Text.Whitespace
't_peel'      Name
','           Operator
' '           Text.Whitespace
'do_peel'     Name
','           Operator
' '           Text.Whitespace
'do_split'    Name
','           Operator
' '           Text.Whitespace
'do_graft'    Name
','           Operator
' '           Text.Whitespace
'do_rebase_lower' Name
','           Operator
' '           Text.Whitespace
'do_rebase_upper' Name
','           Operator
'\n        '  Text.Whitespace
'Binder'      Name
','           Operator
' '           Text.Whitespace
'Stmt'        Name
','           Operator
' '           Text.Whitespace
't_binder'    Name
','           Operator
' '           Text.Whitespace
't_stmt'      Name
','
          Operator
' '           Text.Whitespace
't_exp'       Name
','           Operator
'\n        '  Text.Whitespace
'ModuleLoad'  Name
';'           Punctuation
'\n  '        Text.Whitespace
```

```
'export'      Keyword
'\n     '     Text.Whitespace
'# These first few are smart constructors (for themselves):\n' Comment.Single

'        '   Text.Whitespace
'ints'        Name
','           Operator
' '           Text.Whitespace
'sums'        Name
','           Operator
'\n     '     Text.Whitespace
'# while these are "proper functions"\n' Comment.Single

'        '   Text.Whitespace
'mk_HArray'   Name
','           Operator
' '           Text.Whitespace
'genLoop'     Name
','           Operator
' '           Text.Whitespace
'unproducts'  Name
','           Operator
' '           Text.Whitespace
'unproduct'   Name
','           Operator
'\n         ' Text.Whitespace
'peel'        Name
','           Operator
' '           Text.Whitespace
'split'       Name
','           Operator
' '
    Text.Whitespace
'graft'       Name
','           Operator
' '           Text.Whitespace
'rebase_lower' Name
','           Operator
' '           Text.Whitespace
'rebase_upper' Name
','           Operator
' '           Text.Whitespace
'Print'       Name
';'           Punctuation
'\n  '        Text.Whitespace
'# these names are not assigned (and should not be).  But they are\n' Comment.Single

' '           Text.Whitespace
```

'# used as global names, so document that here.\n' Comment.Single

' ' Text.Whitespace
'global' Keyword
' ' Text.Whitespace
'Ints' Name
',' Operator
' ' Text.Whitespace
'Sums' Name
',' Operator
' ' Text.Whitespace
'csgn' Name
',' Operator
' ' Text.Whitespace
'sum' Name
',' Operator
' ' Text.Whitespace
'signum' Name
';' Punctuation
'\n ' Text.Whitespace
'uses' Keyword
' ' Text.Whitespace
'Hakaru'
Name
',' Operator
' ' Text.Whitespace
'KB' Name
',' Operator
' ' Text.Whitespace
'Utilities' Name
';' Punctuation
'\n\n ' Text.Whitespace
't_binder' Name
' ' Text.Whitespace
':=' Operator
' ' Text.Whitespace
'"" Punctuation
'Binder' Name
'(' Punctuation
'identical' Name
'(' Punctuation
'product' Name
',' Operator
' ' Text.Whitespace
'Product' Name
',' Operator
' ' Text.Whitespace
'sum' Name

```
','         Operator
' '         Text.Whitespace
'Sum'       Name
')'         Punctuation
','         Operator
' '         Text.Whitespace
't_kb'      Name
')'         Punctuation
"""         Punctuation
';'         Punctuation
'\n  '      Text.Whitespace
't_stmt'    Name
'   '       Text.Whitespace
':='        Operator
' '         Text.Whitespace
"""         Punctuation
'Stmt'
      Name
'('         Punctuation
'anything'  Name
','         Operator
' '         Text.Whitespace
'list'      Name
','         Operator
' '         Text.Whitespace
'list'      Name
')'         Punctuation
"""         Punctuation
';'         Punctuation
'\n  '      Text.Whitespace
't_exp'     Name
'    '      Text.Whitespace
':='        Operator
' '         Text.Whitespace
"""         Punctuation
'{'         Punctuation
'Stmt'      Name
'('         Punctuation
'identical' Name
'('         Punctuation
'exp'       Name
')'         Punctuation
','         Operator
' '         Text.Whitespace
'[]'        Punctuation
','         Operator
' '         Text.Whitespace
'[])'       Punctuation
```

```
','          Operator
'\n              ' Text.Whitespace
'Stmt'        Name
'('          Punctuation
'identical'   Name
'('          Punctuation
'`^`'         Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'['
          Punctuation
'anything'    Name
']'          Punctuation
','          Operator
' '          Text.Whitespace
'[])}'        Punctuation
'"'          Punctuation
';'          Punctuation
'\n\n  '      Text.Whitespace
'ints'        Name
' '          Text.Whitespace
':='          Operator
' '          Text.Whitespace
'proc'        Keyword
'()'         Punctuation
' '          Text.Whitespace
'intssums'    Name
'('          Punctuation
'"'          Punctuation
'ints'        Name
'"'          Punctuation
','          Operator
' '          Text.Whitespace
'"'          Punctuation
'int'         Name
'"'          Punctuation
','          Operator
' '          Text.Whitespace
'_passed'     Name
')'          Punctuation
' '          Text.Whitespace
'end'         Keyword
' '          Text.Whitespace
'proc'        Keyword
';'          Punctuation
'\n  '        Text.Whitespace
'sums'        Name
```

```
' '          Text.Whitespace
':='         Operator
' '
     Text.Whitespace
'proc'       Keyword
'()'         Punctuation
' '          Text.Whitespace
'intssums'   Name
'('          Punctuation
'"'          Punctuation
'sums'       Name
'"'          Punctuation
','          Operator
' '          Text.Whitespace
'"'          Punctuation
'sum'        Name
'"'          Punctuation
','          Operator
' '          Text.Whitespace
'_passed'    Name
')'          Punctuation
' '          Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
';'          Punctuation
'\n\n  '     Text.Whitespace
'Print'      Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'proc'       Keyword
'('          Punctuation
'kind'       Name
'::'         Operator
'identical'  Name
'('          Punctuation
'Ints'       Name
','          Operator
'Sums'       Name
','          Operator
'ints'       Name
','          Operator
'sums'       Name
')'          Punctuation
','
          Operator
'e'          Name
```

```
','         Operator
'v'         Name
'::'        Operator
'name'      Name
','         Operator
'r0'        Name
'::'        Operator
'range'     Name
','         Operator
'rs'        Name
'::'        Operator
'list'      Name
'('         Punctuation
'name'      Name
'='         Operator
'range'     Name
')'         Punctuation
','         Operator
'$'         Operator
')'         Punctuation
'\n    '    Text.Whitespace
'local'     Keyword
' '         Text.Whitespace
'k'         Name
';'         Punctuation
'\n    '    Text.Whitespace
'k'         Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'StringTools' Name
'['         Punctuation
'Capitalize'  Name
']('        Punctuation
'StringTools' Name
'['         Punctuation
'Chop'      Name
']('        Punctuation
'convert'   Name.Builtin
'('         Punctuation
'kind'      Name
','
        Operator
'string'    Name
')));'      Punctuation
'\n    '    Text.Whitespace
'k'         Name
' '         Text.Whitespace
```

```
':='          Operator
' '           Text.Whitespace
'parse'       Name.Builtin
'('           Punctuation
'cat'         Name.Builtin
'('           Punctuation
'"`print/"'   Literal.String
','           Operator
'eval'        Name.Builtin
'('           Punctuation
'k'           Name
')'           Punctuation
','           Operator
'"`"'         Literal.String
'));'         Punctuation
'\n    '      Text.Whitespace
'eval'        Name.Builtin
'('           Punctuation
'k'           Name
')('          Punctuation
'e'           Name
','           Operator
'v'           Name
'['           Punctuation
'op'          Name.Builtin
'('           Punctuation
'rs'          Name
')]'          Punctuation
'='           Operator
'r0'          Name
');'          Punctuation
'\n  '        Text.Whitespace
'end'         Keyword
' '           Text.Whitespace
'proc'
      Keyword
';'           Punctuation
'\n\n  '      Text.Whitespace
'intssums'    Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'proc'        Keyword
'('           Punctuation
'makes'       Name
'::'          Operator
'name'        Name
','           Operator
```

```
' '          Text.Whitespace
'make'       Name
'::'         Operator
'name'       Name
','          Operator
'\n                ' Text.Whitespace
'e'          Name
'::'         Operator
'anything'   Name
','          Operator
' '          Text.Whitespace
'x'          Name
'::'         Operator
'name'       Name
','          Operator
' '          Text.Whitespace
'rr'         Name
'::'         Operator
'range'      Name
','          Operator
' '          Text.Whitespace
'll'         Name
'::'         Operator
'list'       Name
'('          Punctuation
'name'       Name
'='          Operator
'range'      Name
')'          Punctuation
','          Operator
'\n
                  ' Text.Whitespace
'kb'         Name
'::'         Operator
't_kb'       Name
':='         Operator
'empty'      Name
','          Operator
' '          Text.Whitespace
'$'          Operator
')'          Punctuation
'\n    '     Text.Whitespace
'local'      Keyword
' '          Text.Whitespace
't'          Name
','          Operator
' '          Text.Whitespace
'r'          Name
```

```
','         Operator
' '         Text.Whitespace
'l'         Name
','         Operator
' '         Text.Whitespace
'kb2'       Name
','         Operator
' '         Text.Whitespace
'w0'        Name
','         Operator
' '         Text.Whitespace
'pp'        Name
','         Operator
' '         Text.Whitespace
'i'         Name
';'         Punctuation
'\n    '    Text.Whitespace
't'         Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'`if`'      Name
'('         Punctuation
'make'      Name
'='
        Operator
'int'       Name
','         Operator
' '         Text.Whitespace
'HReal'     Name
'('         Punctuation
'open_bounds' Name
'('         Punctuation
'rr'        Name
'))'        Punctuation
','         Operator
' '         Text.Whitespace
'HInt'      Name
'('         Punctuation
'closed_bounds' Name
'('         Punctuation
'rr'        Name
')));'      Punctuation
'\n    '    Text.Whitespace
'r'         Name
','         Operator
' '         Text.Whitespace
'l'         Name
```

```
','         Operator
' '         Text.Whitespace
'kb2'       Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'genLoop'   Name
'('         Punctuation
'rr'        Name
','         Operator
' '         Text.Whitespace
'll'        Name
','         Operator
' '         Text.Whitespace
'kb'        Name
','         Operator
' '         Text.Whitespace
'"'         Punctuation
'Integrand' Name
'"'
        Punctuation
'('         Punctuation
'x'         Name
','         Operator
'e'         Name
'));'       Punctuation
'\n    '    Text.Whitespace
'w0'        Name
','         Operator
' '         Text.Whitespace
'pp'        Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'unproducts' Name
'('         Punctuation
'e'         Name
','         Operator
' '         Text.Whitespace
'x'         Name
','         Operator
' '         Text.Whitespace
'l'         Name
','         Operator
' '         Text.Whitespace
'kb2'       Name
');'        Punctuation
'\n    '    Text.Whitespace
```

```
'if'        Keyword
' '         Text.Whitespace
'depends'   Name
'('         Punctuation
'w0'        Name
','         Operator
' '         Text.Whitespace
'x'         Name
')'         Punctuation
' '         Text.Whitespace
'then'      Keyword
'\n    '    Text.Whitespace
'"'         Punctuation
'makes'
      Name
'('         Punctuation
'e'         Name
','         Operator
' '         Text.Whitespace
'x'         Name
','         Operator
' '         Text.Whitespace
'rr'        Name
','         Operator
' '         Text.Whitespace
'll'        Name
')'         Punctuation
'"'         Punctuation
'\n    '    Text.Whitespace
'else'      Keyword
'\n    '    Text.Whitespace
'pp'        Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'"'         Punctuation
'make'      Name
'"'         Punctuation
'('         Punctuation
'pp'        Name
','         Operator
' '         Text.Whitespace
'x'         Name
'='         Operator
'r'         Name
');'        Punctuation
'\n    '    Text.Whitespace
'for'       Keyword
```

```
' '          Text.Whitespace
'i'          Name
' '          Text.Whitespace
'in'         Keyword
' '          Text.Whitespace
'l'          Name
' '          Text.Whitespace
'do'
         Keyword
' '          Text.Whitespace
'pp'         Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
"""          Punctuation
'product'    Name
"""          Punctuation
'('          Punctuation
'pp'         Name
','          Operator
' '          Text.Whitespace
'i'          Name
')'          Punctuation
' '          Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'do'         Keyword
';'          Punctuation
'\n    '     Text.Whitespace
'NewSLO'     Name
':'          Operator
'-'          Operator
'simplify_factor_assuming' Name
'('          Punctuation
'w0'         Name
' '          Text.Whitespace
'*'          Operator
' '          Text.Whitespace
'pp'         Name
','          Operator
' '          Text.Whitespace
'kb'         Name
');'         Punctuation
'\n    '     Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
'\n  '       Text.Whitespace
```

```
'end'
        Keyword
' '         Text.Whitespace
'proc'      Keyword
';'         Punctuation
'\n\n  '    Text.Whitespace
'mk_HArray'   Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'proc'      Keyword
'('         Punctuation
't'         Name
'::'        Operator
't_type'    Name
','         Operator
' '         Text.Whitespace
'loops'     Name
'::'        Operator
'list'      Name
'('         Punctuation
'name'      Name
'='         Operator
'range'     Name
')'         Punctuation
','         Operator
' '         Text.Whitespace
'$'         Operator
')'         Punctuation
'\n    '    Text.Whitespace
'local'     Keyword
' '         Text.Whitespace
'res'       Name
','         Operator
' '         Text.Whitespace
'i'         Name
';'         Punctuation
'\n    '    Text.Whitespace
'res'       Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
't'
        Name
';'         Punctuation
'\n    '    Text.Whitespace
'for'       Keyword
' '         Text.Whitespace
```

```
'i'          Name
' '          Text.Whitespace
'in'         Keyword
' '          Text.Whitespace
'loops'      Name
' '          Text.Whitespace
'do'         Keyword
' '          Text.Whitespace
'res'        Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'HArray'     Name
'('          Punctuation
'res'        Name
')'          Punctuation
' '          Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'do'         Keyword
';'          Punctuation
'\n    '     Text.Whitespace
'res'        Name
'\n  '       Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
';'          Punctuation
'\n\n  '     Text.Whitespace
'genLoop'    Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'proc'       Keyword
'('
       Punctuation
'e'          Name
','          Operator
' '          Text.Whitespace
'loops'      Name
'::'         Operator
'list'       Name
'('          Punctuation
'name'       Name
'='          Operator
'range'      Name
')'          Punctuation
','          Operator
```

```
' '          Text.Whitespace
'kb'         Name
'::'         Operator
't_kb'       Name
')'          Punctuation
'\n    '     Text.Whitespace
'local'      Keyword
' '          Text.Whitespace
'kb1'        Name
','          Operator
' '          Text.Whitespace
'rng'        Name
','          Operator
' '          Text.Whitespace
'ind'        Name
','          Operator
' '          Text.Whitespace
'do_subst'   Name
','          Operator
' '          Text.Whitespace
'i'          Name
';'          Punctuation
'\n    '     Text.Whitespace
'kb1'        Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'kb'         Name
';'          Punctuation
'\n
    '     Text.Whitespace
'rng'        Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'table'      Name.Builtin
'();'        Punctuation
'\n    '     Text.Whitespace
'ind'        Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'table'      Name.Builtin
'();'        Punctuation
'\n    '     Text.Whitespace
'do_subst'   Name
' '          Text.Whitespace
':='         Operator
```

```
' '          Text.Whitespace
'e'          Name
' '          Text.Whitespace
'->'         Operator
' '          Text.Whitespace
'foldl'      Name
'((('        Punctuation
'e'          Name
','          Operator
'eq'         Name
')'          Punctuation
' '          Text.Whitespace
'->'         Operator
' '          Text.Whitespace
'eval'       Name.Builtin
'('          Punctuation
'e'          Name
','          Operator
' '          Text.Whitespace
'op'         Name.Builtin
'(['         Punctuation
'lhs'
        Name.Builtin
'('          Punctuation
'eq'         Name
')'          Punctuation
','          Operator
'1'          Literal.Number.Integer
']'          Punctuation
','          Operator
'loops'      Name
')'          Punctuation
'='          Operator
'rhs'        Name.Builtin
'('          Punctuation
'eq'         Name
')))'        Punctuation
','          Operator
'\n                        ' Text.Whitespace
'e'          Name
','          Operator
' '          Text.Whitespace
'entries'    Name.Builtin
'('          Punctuation
'ind'        Name
','          Operator
' '          Text.Whitespace
'"'          Punctuation
```

```
'pairs'       Name
'"'           Punctuation
'));'         Punctuation
'\n    '      Text.Whitespace
'for'         Keyword
' '           Text.Whitespace
'i'           Name
' '           Text.Whitespace
'from'        Keyword
' '           Text.Whitespace
'nops'        Name.Builtin
'('           Punctuation
'loops'       Name
')'
  Punctuation
' '           Text.Whitespace
'to'          Keyword
' '           Text.Whitespace
'1'           Literal.Number.Integer
' '           Text.Whitespace
'by'          Keyword
' '           Text.Whitespace
'-'           Operator
'1'           Literal.Number.Integer
' '           Text.Whitespace
'do'          Keyword
'\n      '    Text.Whitespace
'rng'         Name
'['           Punctuation
'i'           Name
']'           Punctuation
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'do_subst'    Name
'('           Punctuation
'op'          Name.Builtin
'(['          Punctuation
'i'           Name
','           Operator
'2'           Literal.Number.Integer
']'           Punctuation
','           Operator
'loops'       Name
'));'         Punctuation
'\n      '    Text.Whitespace
'ind'         Name
'['           Punctuation
```

```
'i'          Name
']'          Punctuation
','          Operator
' '          Text.Whitespace
'kb1'        Name
' '
       Text.Whitespace
':='         Operator
' '          Text.Whitespace
'genType'    Name
'('          Punctuation
'op'         Name.Builtin
'(['         Punctuation
'i'          Name
','          Operator
'1'          Literal.Number.Integer
']'          Punctuation
','          Operator
'loops'      Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'HInt'       Name
'('          Punctuation
'closed_bounds' Name
'('          Punctuation
'rng'        Name
'['          Punctuation
'i'          Name
']))'        Punctuation
','          Operator
'\n                          ' Text.Whitespace
'kb1'        Name
','          Operator
' '          Text.Whitespace
'_rest'      Name
');'         Punctuation
'\n    '     Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'do'         Keyword
';'          Punctuation
'\n    '     Text.Whitespace
'do_subst'   Name
'('          Punctuation
'e'          Name
')'
```

```
            Punctuation
','         Operator
' '         Text.Whitespace
'zip'       Name
'('         Punctuation
'`=`'       Name
','         Operator
' '         Text.Whitespace
'['         Punctuation
'entries'   Name.Builtin
'('         Punctuation
'ind'       Name
','         Operator
' '         Text.Whitespace
'"'         Punctuation
'nolist'    Name
'"'         Punctuation
')]'        Punctuation
','         Operator
'\n                    ' Text.Whitespace
'['         Punctuation
'entries'   Name.Builtin
'('         Punctuation
'rng'       Name
','         Operator
' '         Text.Whitespace
'"'         Punctuation
'nolist'    Name
'"'         Punctuation
')])'       Punctuation
','         Operator
' '         Text.Whitespace
'kb1'       Name
'\n  '      Text.Whitespace
'end'       Keyword
' '         Text.Whitespace
'proc'      Keyword
';'         Punctuation
'\n\n  '    Text.Whitespace
'unproducts'
  Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'proc'      Keyword
'('         Punctuation
'w'         Name
','         Operator
```

```
' '          Text.Whitespace
'x'          Name
'::'         Operator
'name'       Name
','          Operator
' '          Text.Whitespace
'loops'      Name
'::'         Operator
'list'       Name
'('          Punctuation
'name'       Name
'='          Operator
'range'      Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'kb'         Name
'::'         Operator
't_kb'       Name
','          Operator
' '          Text.Whitespace
'$'          Operator
')'          Punctuation
'\n    '     Text.Whitespace
'local'      Keyword
' '          Text.Whitespace
'w0'         Name
','          Operator
' '          Text.Whitespace
'pp'         Name
','          Operator
' '          Text.Whitespace
'j'          Name
','          Operator
' '          Text.Whitespace
'w1'
         Name
','          Operator
' '          Text.Whitespace
'w2'         Name
','          Operator
' '          Text.Whitespace
'loop'       Name
';'          Punctuation
'\n    '     Text.Whitespace
'w0'         Name
' '          Text.Whitespace
':='         Operator
```

```
' '          Text.Whitespace
'1'          Literal.Number.Integer
';'          Punctuation
'\n    '     Text.Whitespace
'pp'         Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'w'          Name
';'          Punctuation
'\n    '     Text.Whitespace
'for'        Keyword
' '          Text.Whitespace
'j'          Name
' '          Text.Whitespace
'from'       Keyword
' '          Text.Whitespace
'nops'       Name.Builtin
'('          Punctuation
'loops'      Name
')'          Punctuation
' '          Text.Whitespace
'to'         Keyword
' '          Text.Whitespace
'1'          Literal.Number.Integer
' '          Text.Whitespace
'by'
         Keyword
' '          Text.Whitespace
'-'          Operator
'1'          Literal.Number.Integer
' '          Text.Whitespace
'do'         Keyword
'\n     '    Text.Whitespace
'w1'         Name
','          Operator
' '          Text.Whitespace
'pp'         Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'unproduct'   Name
'('          Punctuation
'pp'         Name
','          Operator
' '          Text.Whitespace
```

```
'x'          Name
','          Operator
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'j'          Name
','          Operator
'loops'      Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'[]'         Punctuation
','          Operator
' '          Text.Whitespace
'`*`'        Name
','          Operator
' '          Text.Whitespace
'kb'         Name
','          Operator
'
 '          Text.Whitespace
'kb'         Name
'));'        Punctuation
'\n     '    Text.Whitespace
'# separate out each of the factors in w1, as they might have different\n' Comment.Single

'     '      Text.Whitespace
'# variable dependencies, which can be exploited by other routines\n' Comment.Single

'     '      Text.Whitespace
'w2'         Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'convert'    Name.Builtin
'('          Punctuation
'w1'         Name
','          Operator
' '          Text.Whitespace
'"'          Punctuation
'list'       Name
'"'          Punctuation
','          Operator
' '          Text.Whitespace
'"'          Punctuation
'`*`'        Name
'"'          Punctuation
');'         Punctuation
```

```
'\n      '    Text.Whitespace
'for'         Keyword
' '           Text.Whitespace
'loop'        Name
' '           Text.Whitespace
'in'          Keyword
' '           Text.Whitespace
'['           Punctuation
'op'
          Name.Builtin
'('           Punctuation
'j'           Name
'+'           Operator
'1'           Literal.Number.Integer
'..'          Punctuation
'-'           Operator
'1'           Literal.Number.Integer
','           Operator
' '           Text.Whitespace
'loops'       Name
')]'          Punctuation
' '           Text.Whitespace
'do'          Keyword
'\n        '  Text.Whitespace
'w2'          Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'map'         Name.Builtin
'(('          Punctuation
'w'           Name
' '           Text.Whitespace
'->'          Operator
' '           Text.Whitespace
'product'     Name
'('           Punctuation
'eval'        Name.Builtin
'('           Punctuation
'w'           Name
','           Operator
' '           Text.Whitespace
'x'           Name
'='           Operator
'idx'         Name
'('           Punctuation
'x'           Name
','           Operator
'lhs'         Name.Builtin
```

```
'('         Punctuation
'loop'
      Name
')))'       Punctuation
','         Operator
' '         Text.Whitespace
'loop'      Name
'))'        Punctuation
','         Operator
' '         Text.Whitespace
'w2'        Name
');'        Punctuation
'\n    '    Text.Whitespace
'end'       Keyword
' '         Text.Whitespace
'do'        Keyword
';'         Punctuation
'\n    '    Text.Whitespace
'w0'        Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'w0'        Name
' '         Text.Whitespace
'*'         Operator
' '         Text.Whitespace
'`*`'       Name
'('         Punctuation
'op'        Name.Builtin
'('         Punctuation
'w2'        Name
'));'       Punctuation
'\n    '    Text.Whitespace
'# w0 := w0 * foldl(product, w1, op(j+1..-1, loops));\n' Comment.Single

'    '      Text.Whitespace
'end'       Keyword
' '         Text.Whitespace
'do'        Keyword
';'         Punctuation
'\n    '
    Text.Whitespace
'# Rewrite ... * piecewise(i<=kk-1, xs^2, 1)\n' Comment.Single

'    '      Text.Whitespace
'#     to ... * xs ^ (2*piecewise(i<=kk-1, 1))\n' Comment.Single

'    '      Text.Whitespace
```

'# because the latter is easier to integrate and recognize with respect to xs\n' Comment.Single

' ' Text.Whitespace
'pp' Name
' ' Text.Whitespace
':=' Operator
' ' Text.Whitespace
'for_poly' Name
'(' Punctuation
'pp' Name
',' Operator
' ' Text.Whitespace
'# TODO: move this rewrite into eval_factor (then remove for_poly?)?\n' Comment.Single

' ' Text.Whitespace
'proc' Keyword
' ' Text.Whitespace
'(' Punctuation
'p' Name
')' Punctuation
'\n ' Text.Whitespace
'local' Keyword
' ' Text.Whitespace
'n' Name
',' Operator
' ' Text.Whitespace
's' Name
',' Operator
' ' Text.Whitespace
'r' Name
';' Punctuation
'\n ' Text.Whitespace
'if' Keyword
' ' Text.Whitespace
'p' Name
' ' Text.Whitespace
'::' Operator
' ' Text.Whitespace
'"' Punctuation
'And' Name
'(' Punctuation
'specfunc' Name
'(' Punctuation
'piecewise' Name.Builtin
')' Punctuation
',' Operator
' ' Text.Whitespace

```
'anyfunc'     Name
'('           Punctuation
'freeof'      Name
'('           Punctuation
'x'           Name
')'           Punctuation
','           Operator
' '           Text.Whitespace
'anything'    Name
','           Operator
' '           Text.Whitespace
'1'           Literal.Number.Integer
'))'          Punctuation
"""           Punctuation
' '           Text.Whitespace
'then'        Keyword
'\n           ' Text.Whitespace
'n'           Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'indets'
      Name.Builtin
'('           Punctuation
'op'          Name.Builtin
'('           Punctuation
'1'           Literal.Number.Integer
','           Operator
'p'           Name
')'           Punctuation
','           Operator
'name'        Name
');'          Punctuation
'\n           ' Text.Whitespace
'if'          Keyword
' '           Text.Whitespace
'op'          Name.Builtin
'('           Punctuation
'2'           Literal.Number.Integer
','           Operator
'p'           Name
')'           Punctuation
' '           Text.Whitespace
'::'          Operator
' '           Text.Whitespace
'{'           Punctuation
"""           Punctuation
'exp'         Name
```

```
'('          Punctuation
'anything'    Name
')'          Punctuation
'"'          Punctuation
','          Operator
' '          Text.Whitespace
'"'          Punctuation
'`^`'        Name
'"'          Punctuation
'('          Punctuation
'"'          Punctuation
'freeof'      Name
'"'          Punctuation
'('
          Punctuation
'n'          Name
')'          Punctuation
','          Operator
'"'          Punctuation
'anything'    Name
'"'          Punctuation
')}'         Punctuation
' '          Text.Whitespace
'then'        Keyword
'\n           ' Text.Whitespace
's'          Name
','          Operator
' '          Text.Whitespace
'r'          Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'selectremove' Name.Builtin
'('          Punctuation
'depends'     Name
','          Operator
' '          Text.Whitespace
'convert'     Name.Builtin
'('          Punctuation
'op'         Name.Builtin
'(['         Punctuation
'2'          Literal.Number.Integer
','          Operator
'-'          Operator
'1'          Literal.Number.Integer
']'          Punctuation
','          Operator
'p'          Name
```

```
')'          Punctuation
','          Operator
"""          Punctuation
'list'       Name
"""          Punctuation
','
    Operator
"""          Punctuation
'`*`'        Name
"""          Punctuation
')'          Punctuation
','          Operator
' '          Text.Whitespace
'n'          Name
');'         Punctuation
'\n          ' Text.Whitespace
'subsop'     Name.Builtin
'('          Punctuation
'-'          Operator
'1'          Literal.Number.Integer
' '          Text.Whitespace
'='          Operator
' '          Text.Whitespace
'`*`'        Name
'('          Punctuation
'piecewise'  Name.Builtin
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'1'          Literal.Number.Integer
','          Operator
'p'          Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'`*`'        Name
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
's'          Name
')))'        Punctuation
','          Operator
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'r'
         Name
'))'         Punctuation
```

```
','         Operator
' '         Text.Whitespace
'op'        Name.Builtin
'('         Punctuation
'2'         Literal.Number.Integer
','         Operator
'p'         Name
'))'        Punctuation
'\n         ' Text.Whitespace
'else'      Keyword
'\n         ' Text.Whitespace
's'         Name
','         Operator
' '         Text.Whitespace
'r'         Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'selectremove' Name.Builtin
'('         Punctuation
'depends'   Name
','         Operator
' '         Text.Whitespace
'convert'   Name.Builtin
'('         Punctuation
'op'        Name.Builtin
'('         Punctuation
'2'         Literal.Number.Integer
','         Operator
'p'         Name
')'         Punctuation
','         Operator
'"'         Punctuation
'list'      Name
'"'         Punctuation
','         Operator
'"'         Punctuation
'`*`'
    Name
'"'         Punctuation
')'         Punctuation
','         Operator
' '         Text.Whitespace
'n'         Name
');'        Punctuation
'\n         ' Text.Whitespace
'`*`'       Name
'('         Punctuation
```

```
'op'          Name.Builtin
'('           Punctuation
'r'           Name
'))'          Punctuation
' '           Text.Whitespace
'^'           Operator
' '           Text.Whitespace
'piecewise'   Name.Builtin
'('           Punctuation
'op'          Name.Builtin
'('           Punctuation
'1'           Literal.Number.Integer
','           Operator
'p'           Name
')'           Punctuation
','           Operator
' '           Text.Whitespace
'1'           Literal.Number.Integer
')'           Punctuation
'\n           ' Text.Whitespace
'*'           Operator
' '           Text.Whitespace
'`if`'        Name
'('           Punctuation
'nops'        Name.Builtin
'('           Punctuation
's'           Name
')'           Punctuation
' '           Text.Whitespace
'>'
          Operator
' '           Text.Whitespace
'0'           Literal.Number.Integer
','           Operator
' '           Text.Whitespace
'piecewise'   Name.Builtin
'('           Punctuation
'op'          Name.Builtin
'('           Punctuation
'1'           Literal.Number.Integer
','           Operator
'p'           Name
')'           Punctuation
','           Operator
' '           Text.Whitespace
'`*`'         Name
'('           Punctuation
'op'          Name.Builtin
```

```
'('          Punctuation
's'          Name
'))'         Punctuation
','          Operator
' '          Text.Whitespace
'1'          Literal.Number.Integer
')'          Punctuation
','          Operator
' '          Text.Whitespace
'1'          Literal.Number.Integer
')'          Punctuation
'\n          ' Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
'\n        '  Text.Whitespace
'else'       Keyword
'\n          ' Text.Whitespace
'p'          Name
'\n
        '  Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
'\n      '   Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
');'         Punctuation
'\n    '     Text.Whitespace
'w0'         Name
','          Operator
' '          Text.Whitespace
'pp'         Name
'\n  '       Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
';'          Punctuation
'\n\n  '     Text.Whitespace
'# Find [w1,pp] so that\n' Comment.Single

'  '         Text.Whitespace
'#   wrap(heap,w,mode,kb1,kb0)\n' Comment.Single

'  '         Text.Whitespace
'#   = w1*product(eval(pp,var=idx(var,lhs(loop))),loop)\n' Comment.Single
```

```
' '          Text.Whitespace
'# making w1 depend on var as little as possible.\n' Comment.Single

' '          Text.Whitespace
'# The flag "mode" should be `+` if "heap" contains an entry of the form\n' Comment.Single

' '          Text.Whitespace
'# t_exp,
 or `*` otherwise.\n' Comment.Single

' '          Text.Whitespace
'unproduct'   Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'proc'       Keyword
'('          Punctuation
'w'          Name
','          Operator
' '          Text.Whitespace
'var'        Name
'::'         Operator
'name'       Name
','          Operator
' '          Text.Whitespace
'loop'       Name
'::'         Operator
'('          Punctuation
'name'       Name
'='          Operator
'range'      Name
')'          Punctuation
','          Operator
'\n                  ' Text.Whitespace
'heap'       Name
'::'         Operator
'list'       Name
','          Operator
' '          Text.Whitespace
'mode'       Name
'::'         Operator
'identical'   Name
'('          Punctuation
'`*`'        Name
','          Operator
'`+`'        Name
')'          Punctuation
','          Operator
```

'\n ' Text.Whitespace
'kb1' Name
'::'
Operator
't_kb' Name
',' Operator
' ' Text.Whitespace
'kb0' Name
'::' Operator
't_kb' Name
',' Operator
' ' Text.Whitespace
'$' Operator
')' Punctuation
'\n ' Text.Whitespace
'local' Keyword
' ' Text.Whitespace
'ind' Name
',' Operator
' ' Text.Whitespace
'res' Name
',' Operator
' ' Text.Whitespace
'dummy' Name
',' Operator
' ' Text.Whitespace
'kb' Name
',' Operator
' ' Text.Whitespace
'kbThen' Name
',' Operator
' ' Text.Whitespace
'i' Name
',' Operator
' ' Text.Whitespace
'w1' Name
',' Operator
' ' Text.Whitespace
'pp' Name
',' Operator
' ' Text.Whitespace
's' Name
',' Operator
' ' Text.Whitespace
'r' Name
','
Operator
' ' Text.Whitespace

'x' Name
';' Punctuation
'\n ' Text.Whitespace
'if' Keyword
' ' Text.Whitespace
'not' Keyword
' ' Text.Whitespace
'depends' Name
'(' Punctuation
'w' Name
',' Operator
' ' Text.Whitespace
'var' Name
')' Punctuation
' ' Text.Whitespace
'then' Keyword
'\n ' Text.Whitespace
'return' Keyword
' ' Text.Whitespace
'[' Punctuation
'wrap' Name
'(' Punctuation
'heap' Name
',' Operator
' ' Text.Whitespace
'w' Name
',' Operator
' ' Text.Whitespace
'mode' Name
',' Operator
' ' Text.Whitespace
'kb1' Name
',' Operator
' ' Text.Whitespace
'kb0' Name
')' Punctuation
',' Operator
' ' Text.Whitespace
'1' Literal.Number.Integer
']'
Punctuation
'\n ' Text.Whitespace
'end' Keyword
' ' Text.Whitespace
'if' Keyword
';' Punctuation
'\n ' Text.Whitespace
"# The `..' (indices) of all occurences of `idx(var,..)'\n" Comment.Single

```
'    '        Text.Whitespace
'ind'         Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'map2'        Name
'('           Punctuation
'op'          Name.Builtin
','           Operator
' '           Text.Whitespace
'2'           Literal.Number.Integer
','           Operator
' '           Text.Whitespace
'indets'      Name.Builtin
'('           Punctuation
'w'           Name
','           Operator
' '           Text.Whitespace
'"'           Punctuation
'idx'         Name
'('           Punctuation
'identical'   Name
'('           Punctuation
'var'         Name
')'           Punctuation
','           Operator
' '           Text.Whitespace
'anything'    Name
')'
    Punctuation
'"'           Punctuation
'));'         Punctuation
'\n    '      Text.Whitespace
'if'          Keyword
' '           Text.Whitespace
'nops'        Name.Builtin
'('           Punctuation
'ind'         Name
')'           Punctuation
' '           Text.Whitespace
'='           Operator
' '           Text.Whitespace
'1'           Literal.Number.Integer
' '           Text.Whitespace
'then'        Keyword
'\n      '    Text.Whitespace
'ind'         Name
```

' ' Text.Whitespace
':=' Operator
' ' Text.Whitespace
'op' Name.Builtin
'(' Punctuation
'ind' Name
');' Punctuation
'\n ' Text.Whitespace
'# Make sure ind contains no bound variables before lifting it!\n' Comment.Single

' ' Text.Whitespace
'# So, check that "extract using indets" and "rename using eval" commute.\n' Comment.Single

' ' Text.Whitespace
's' Name
' ' Text.Whitespace
':=' Operator
' '
  Text.Whitespace
'indets' Name.Builtin
'(' Punctuation
'ind' Name
',' Operator
' ' Text.Whitespace
'"' Punctuation
'name' Name
'"' Punctuation
');' Punctuation
'\n ' Text.Whitespace
's' Name
' ' Text.Whitespace
':=' Operator
' ' Text.Whitespace
'map' Name.Builtin
'(' Punctuation
'proc' Keyword
'(' Punctuation
'x' Name
',' Operator
'$' Operator
')' Punctuation
' ' Text.Whitespace
'local' Keyword
' ' Text.Whitespace
'y' Name
';' Punctuation
' ' Text.Whitespace
'`if`' Name

```
'('          Punctuation
'depends'    Name
'('          Punctuation
'ind'        Name
','          Operator
'x'          Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'x'          Name
'='          Operator
'y'
      Name
','          Operator
' '          Text.Whitespace
'NULL'       Name
')'          Punctuation
' '          Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
','          Operator
' '          Text.Whitespace
's'          Name
');'         Punctuation
'\n     '    Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'indets'     Name.Builtin
'('          Punctuation
'eval'       Name.Builtin
'('          Punctuation
'w'          Name
','          Operator
' '          Text.Whitespace
's'          Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'"'          Punctuation
'idx'        Name
'('          Punctuation
'identical'  Name
'('          Punctuation
'var'        Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
```

'anything' Name
')' Punctuation
"""" Punctuation
')' Punctuation
'\n '
Text.Whitespace
'=' Operator
' ' Text.Whitespace
'{' Punctuation
'idx' Name
'(' Punctuation
'var' Name
',' Operator
' ' Text.Whitespace
'eval' Name.Builtin
'(' Punctuation
'ind' Name
',' Operator
' ' Text.Whitespace
's' Name
'))}' Punctuation
' ' Text.Whitespace
'then' Keyword
'\n ' Text.Whitespace
"# use kb as a local context, and 'solve' for the innermost bound var\n" Comment.Single

' ' Text.Whitespace
'# used in ind.\n' Comment.Single

' ' Text.Whitespace
'kb' Name
' ' Text.Whitespace
':=' Operator
' ' Text.Whitespace
'assert' Name
'(' Punctuation
'lhs' Name.Builtin
'(' Punctuation
'loop' Name
')' Punctuation
'=' Operator
'ind' Name
',' Operator
' ' Text.Whitespace
'kb1'
Name
');' Punctuation
' ' Text.Whitespace

'# BUG! bijectivity assumed!\n' Comment.Single

' ' Text.Whitespace
"# if the assertion makes the KB false, it isn't needed(?)\n" Comment.Single

' ' Text.Whitespace
'ASSERT' Name.Builtin
'(' Punctuation
'type' Name.Builtin
'(' Punctuation
'kb' Name
',' Operator
' ' Text.Whitespace
't_kb' Name
')' Punctuation
',' Operator
'\n ' Text.Whitespace
'sprintf' Name
'(' Punctuation
'"assert(%a,%a) produced a false KB!\\n"' Literal.String
',' Operator
' ' Text.Whitespace
'lhs' Name.Builtin
'(' Punctuation
'loop' Name
')' Punctuation
'=' Operator
'ind' Name
',' Operator
'kb1' Name
'))' Punctuation
':' Operator
'\n ' Text.Whitespace
'res' Name
' ' Text.Whitespace
':='
  Operator
' ' Text.Whitespace
'subs' Name.Builtin
'(' Punctuation
'idx' Name
'(' Punctuation
'var' Name
',' Operator
'ind' Name
')' Punctuation
' ' Text.Whitespace
'=' Operator

```
' '          Text.Whitespace
'idx'        Name
'('          Punctuation
'var'        Name
','          Operator
'lhs'        Name.Builtin
'('          Punctuation
'loop'       Name
'))'         Punctuation
','          Operator
' '          Text.Whitespace
'w'          Name
');'         Punctuation
'\n        '  Text.Whitespace
'res'        Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'wrap'       Name
'('          Punctuation
'heap'       Name
','          Operator
' '          Text.Whitespace
'res'        Name
','          Operator
' '          Text.Whitespace
'mode'       Name
','          Operator
' '          Text.Whitespace
'kb'
     Name
','          Operator
' '          Text.Whitespace
'kb0'        Name
');'         Punctuation
'\n        '  Text.Whitespace
'res'        Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'subs'       Name.Builtin
'('          Punctuation
'idx'        Name
'('          Punctuation
'var'        Name
','          Operator
'lhs'        Name.Builtin
'('          Punctuation
```

```
'loop'        Name
'))'          Punctuation
'='           Operator
'dummy'       Name
','           Operator
' '           Text.Whitespace
'res'         Name
');'          Punctuation
'\n       '   Text.Whitespace
'if'          Keyword
' '           Text.Whitespace
'not'         Keyword
' '           Text.Whitespace
'depends'     Name
'('           Punctuation
'res'         Name
','           Operator
' '           Text.Whitespace
'var'         Name
')'           Punctuation
' '           Text.Whitespace
'then'        Keyword
'\n         ' Text.Whitespace
'return'
      Keyword
' '           Text.Whitespace
'['           Punctuation
'1'           Literal.Number.Integer
','           Operator
' '           Text.Whitespace
'subs'        Name.Builtin
'('           Punctuation
'dummy'       Name
'='           Operator
'var'         Name
','           Operator
' '           Text.Whitespace
'res'         Name
')]'          Punctuation
'\n       '   Text.Whitespace
'end'         Keyword
' '           Text.Whitespace
'if'          Keyword
'\n     '     Text.Whitespace
'end'         Keyword
' '           Text.Whitespace
'if'          Keyword
'\n    '      Text.Whitespace
```

```
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n    '     Text.Whitespace
'# distribute the unproduct over each part\n' Comment.Single

'    '       Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'w'          Name
' '          Text.Whitespace
'::'         Operator
' '          Text.Whitespace
'mode'
     Name
' '          Text.Whitespace
'then'       Keyword
'\n     '    Text.Whitespace
'res'        Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'map'        Name.Builtin
'('          Punctuation
'unproduct'   Name
','          Operator
' '          Text.Whitespace
'`if`'       Name
'('          Punctuation
'mode'       Name
'='          Operator
'`*`'        Name
','          Operator
' '          Text.Whitespace
'list_of_mul' Name
'('          Punctuation
'w'          Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'['          Punctuation
'op'         Name.Builtin
'('          Punctuation
'w'          Name
')])'        Punctuation
','          Operator
'\n              ' Text.Whitespace
```

```
'var'        Name
','          Operator
' '          Text.Whitespace
'loop'       Name
','          Operator
' '          Text.Whitespace
'heap'       Name
','          Operator
' '
       Text.Whitespace
'mode'       Name
','          Operator
' '          Text.Whitespace
'kb1'        Name
','          Operator
' '          Text.Whitespace
'kb0'        Name
');'         Punctuation
'\n     '    Text.Whitespace
'return'     Keyword
' '          Text.Whitespace
'['          Punctuation
'`*`'        Name
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'map2'       Name
'('          Punctuation
'op'         Name.Builtin
','          Operator
'1'          Literal.Number.Integer
','          Operator
'res'        Name
')))'        Punctuation
','          Operator
' '          Text.Whitespace
'`*`'        Name
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'map2'       Name
'('          Punctuation
'op'         Name.Builtin
','          Operator
'2'          Literal.Number.Integer
','          Operator
'res'        Name
')))]'       Punctuation
```

```
'\n    '      Text.Whitespace
'end'
        Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n    '      Text.Whitespace
'# for piecewise, just map right in (using KB for context tracking)\n' Comment.Single

'    '       Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'w'          Name
' '          Text.Whitespace
'::'         Operator
' '          Text.Whitespace
'"'          Punctuation
'specfunc'    Name
'('          Punctuation
'piecewise'   Name.Builtin
')'          Punctuation
'"'          Punctuation
' '          Text.Whitespace
'then'       Keyword
'\n      '    Text.Whitespace
'kb'         Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'kb1'        Name
';'          Punctuation
'\n      '    Text.Whitespace
'for'        Keyword
' '          Text.Whitespace
'i'          Name
' '          Text.Whitespace
'from'       Keyword
' '          Text.Whitespace
'1'          Literal.Number.Integer
'
 '          Text.Whitespace
'to'         Keyword
' '          Text.Whitespace
'nops'       Name.Builtin
'('          Punctuation
'w'          Name
')'          Punctuation
' '          Text.Whitespace
```

```
'do'          Keyword
'\n        '  Text.Whitespace
'if'          Keyword
' '           Text.Whitespace
'i'           Name
' '           Text.Whitespace
'::'          Operator
' '           Text.Whitespace
'even'        Name
' '           Text.Whitespace
'then'        Keyword
'\n          ' Text.Whitespace
'kbThen'      Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'assert'      Name
'('           Punctuation
'    '        Text.Whitespace
'op'          Name.Builtin
'('           Punctuation
'i'           Name
'-'           Operator
'1'           Literal.Number.Integer
','           Operator
'w'           Name
')'           Punctuation
' '           Text.Whitespace
','           Operator
' '           Text.Whitespace
'kb'          Name
');'
          Punctuation
'\n          ' Text.Whitespace
'# accumulate the rest, regardless\n' Comment.Single

'          '  Text.Whitespace
'kb'          Name
'     '       Text.Whitespace
':='          Operator
' '           Text.Whitespace
'assert'      Name
'('           Punctuation
'Not'         Name
'('           Punctuation
'op'          Name.Builtin
'('           Punctuation
'i'           Name
```

```
'-'          Operator
'1'          Literal.Number.Integer
','          Operator
'w'          Name
'))'         Punctuation
','          Operator
' '          Text.Whitespace
'kb'         Name
');'         Punctuation
'\n\n        ' Text.Whitespace
'# if kbThen is invalid, deal appropriately\n' Comment.Single

'        '  Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'not'        Keyword
' '          Text.Whitespace
'type'       Name.Builtin
'('          Punctuation
'kbThen'     Name
','          Operator
't_kb'       Name
')'          Punctuation
' '
          Text.Whitespace
'then'       Keyword
' '          Text.Whitespace
'next'       Keyword
' '          Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n\n        ' Text.Whitespace
'w1'         Name
'['          Punctuation
'i'          Name
']'          Punctuation
','          Operator
' '          Text.Whitespace
'pp'         Name
'['          Punctuation
'i'          Name
']'          Punctuation
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'op'         Name.Builtin
```

```
'('          Punctuation
'unproduct'   Name
'('          Punctuation
'op'          Name.Builtin
'('          Punctuation
'i'          Name
','          Operator
'w'           Name
')'          Punctuation
','          Operator
'var'         Name
','          Operator
'loop'        Name
','          Operator
'heap'        Name
','          Operator
'mode'        Name
','          Operator
'kbThen'
      Name
','          Operator
'kb0'         Name
'));'         Punctuation
'\n          ' Text.Whitespace
"# if kb is inconsistent, we're done\n" Comment.Single

'          '  Text.Whitespace
'if'          Keyword
' '          Text.Whitespace
'not'         Keyword
' '          Text.Whitespace
'type'        Name.Builtin
'('          Punctuation
'kb'          Name
','          Operator
't_kb'        Name
')'          Punctuation
' '          Text.Whitespace
'then'        Keyword
' '          Text.Whitespace
'break'       Keyword
' '          Text.Whitespace
'end'         Keyword
' '          Text.Whitespace
'if'          Keyword
';'          Punctuation
'\n        '  Text.Whitespace
'elif'        Keyword
```

```
' '         Text.Whitespace
'i'         Name
' '         Text.Whitespace
'='         Operator
' '         Text.Whitespace
'nops'      Name.Builtin
'('         Punctuation
'w'         Name
')'         Punctuation
' '         Text.Whitespace
'then'
      Keyword
'\n         ' Text.Whitespace
'if'        Keyword
' '         Text.Whitespace
'not'       Keyword
' '         Text.Whitespace
'type'      Name.Builtin
'('         Punctuation
'kb'        Name
','         Operator
't_kb'      Name
')'         Punctuation
' '         Text.Whitespace
'then'      Keyword
' '         Text.Whitespace
'next'      Keyword
' '         Text.Whitespace
'end'       Keyword
' '         Text.Whitespace
'if'        Keyword
';'         Punctuation
'\n         ' Text.Whitespace
'w1'        Name
'['         Punctuation
'i'         Name
']'         Punctuation
','         Operator
' '         Text.Whitespace
'pp'        Name
'['         Punctuation
'i'         Name
']'         Punctuation
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'op'        Name.Builtin
'('         Punctuation
```

```
'unproduct'   Name
'('           Punctuation
'op'          Name.Builtin
'('
          Punctuation
'i'           Name
','           Operator
'w'           Name
')'           Punctuation
','           Operator
'var'         Name
','           Operator
'loop'        Name
','           Operator
'heap'        Name
','           Operator
'mode'        Name
','           Operator
'kb'          Name
'    '        Text.Whitespace
','           Operator
'kb0'         Name
'))'          Punctuation
'\n       '   Text.Whitespace
'end'         Keyword
' '           Text.Whitespace
'if'          Keyword
'\n      '    Text.Whitespace
'end'         Keyword
' '           Text.Whitespace
'do'          Keyword
';'           Punctuation
'\n      '    Text.Whitespace
'return'      Keyword
' '           Text.Whitespace
'['           Punctuation
'`*`'         Name
'('           Punctuation
'entries'     Name.Builtin
'('           Punctuation
'w1'          Name
','           Operator
'"'           Punctuation
'nolist'      Name
'"'           Punctuation
'))'          Punctuation
','
```

```
        Operator
' '         Text.Whitespace
'`*`'       Name
'('         Punctuation
'entries'   Name.Builtin
'('         Punctuation
'pp'        Name
','         Operator
'"'         Punctuation
'nolist'    Name
'"'         Punctuation
'))]'       Punctuation
'\n    '    Text.Whitespace
'end'       Keyword
' '         Text.Whitespace
'if'        Keyword
';'         Punctuation
'\n    '    Text.Whitespace
'if'        Keyword
' '         Text.Whitespace
'mode'      Name
' '         Text.Whitespace
'='         Operator
' '         Text.Whitespace
'`*`'       Name
' '         Text.Whitespace
'then'      Keyword
'\n      '  Text.Whitespace
'if'        Keyword
' '         Text.Whitespace
'w'         Name
' '         Text.Whitespace
'::'        Operator
' '         Text.Whitespace
'('         Punctuation
'anything'  Name
'^'         Operator
'freeof'    Name
'('         Punctuation
'var'       Name
'))'
        Punctuation
' '         Text.Whitespace
'then'      Keyword
'\n        ' Text.Whitespace
'return'    Keyword
' '         Text.Whitespace
'unproduct' Name
```

```
'('         Punctuation
'op'        Name.Builtin
'('         Punctuation
'1'         Literal.Number.Integer
','         Operator
'w'         Name
')'         Punctuation
','         Operator
' '         Text.Whitespace
'var'       Name
','         Operator
' '         Text.Whitespace
'loop'      Name
','         Operator
'\n                    ' Text.Whitespace
'['         Punctuation
'op'        Name.Builtin
'('         Punctuation
'heap'      Name
')'         Punctuation
','         Operator
' '         Text.Whitespace
'Stmt'      Name
'('         Punctuation
'`^`'       Name
','         Operator
' '         Text.Whitespace
'[]'        Punctuation
','         Operator
' '         Text.Whitespace
'['         Punctuation
'op'        Name.Builtin
'('
        Punctuation
'2'         Literal.Number.Integer
','         Operator
'w'         Name
')])]'      Punctuation
','         Operator
' '         Text.Whitespace
'`*`'       Name
','         Operator
' '         Text.Whitespace
'kb1'       Name
','         Operator
' '         Text.Whitespace
'kb0'       Name
')'         Punctuation
```

```
'\n      '    Text.Whitespace
'elif'        Keyword
' '           Text.Whitespace
'w'           Name
' '           Text.Whitespace
'::'          Operator
' '           Text.Whitespace
'exp'         Name
'('           Punctuation
'anything'    Name
')'           Punctuation
' '           Text.Whitespace
'then'        Keyword
'\n        '  Text.Whitespace
'return'      Keyword
' '           Text.Whitespace
'unproduct'   Name
'('           Punctuation
'op'          Name.Builtin
'('           Punctuation
'1'           Literal.Number.Integer
','           Operator
'w'           Name
')'           Punctuation
','           Operator
'
 '           Text.Whitespace
'var'         Name
','           Operator
' '           Text.Whitespace
'loop'        Name
','           Operator
'\n                        ' Text.Whitespace
'['           Punctuation
'op'          Name.Builtin
'('           Punctuation
'heap'        Name
')'           Punctuation
','           Operator
' '           Text.Whitespace
'Stmt'        Name
'('           Punctuation
'exp'         Name
','           Operator
' '           Text.Whitespace
'[]'          Punctuation
','           Operator
' '           Text.Whitespace
```

```
'[])]'        Punctuation
','           Operator
' '           Text.Whitespace
'`+`'         Name
','           Operator
' '           Text.Whitespace
'kb1'         Name
','           Operator
' '           Text.Whitespace
'kb0'         Name
')'           Punctuation
'\n      '    Text.Whitespace
'elif'        Keyword
' '           Text.Whitespace
'w'           Name
' '           Text.Whitespace
'::'          Operator
' '
     Text.Whitespace
'('           Punctuation
'freeof'      Name
'('           Punctuation
'var'         Name
')^'          Punctuation
'anything'    Name
')'           Punctuation
' '           Text.Whitespace
'then'        Keyword
'\n        '  Text.Whitespace
'return'      Keyword
' '           Text.Whitespace
'unproduct'   Name
'('           Punctuation
'op'          Name.Builtin
'('           Punctuation
'2'           Literal.Number.Integer
','           Operator
'w'           Name
')'           Punctuation
','           Operator
' '           Text.Whitespace
'var'         Name
','           Operator
' '           Text.Whitespace
'loop'        Name
','           Operator
'\n                        ' Text.Whitespace
'['           Punctuation
```

```
'op'        Name.Builtin
'('         Punctuation
'heap'      Name
')'         Punctuation
','         Operator
' '         Text.Whitespace
'Stmt'      Name
'('         Punctuation
'`^`'       Name
','         Operator
' '
        Text.Whitespace
'['         Punctuation
'op'        Name.Builtin
'('         Punctuation
'1'         Literal.Number.Integer
','         Operator
'w'         Name
')]'        Punctuation
','         Operator
' '         Text.Whitespace
'[])]'      Punctuation
','         Operator
' '         Text.Whitespace
'`+`'       Name
','         Operator
' '         Text.Whitespace
'kb1'       Name
','         Operator
' '         Text.Whitespace
'kb0'       Name
')'         Punctuation
'\n    '    Text.Whitespace
'end'       Keyword
' '         Text.Whitespace
'if'        Keyword
'\n    '    Text.Whitespace
'end'       Keyword
' '         Text.Whitespace
'if'        Keyword
';'         Punctuation
'\n    '    Text.Whitespace
'if'        Keyword
' '         Text.Whitespace
'mode'      Name
' '         Text.Whitespace
'='         Operator
' '         Text.Whitespace
```

'`+`' Name
' ' Text.Whitespace
'and'
  Keyword
' ' Text.Whitespace
'w' Name
' ' Text.Whitespace
'::' Operator
' ' Text.Whitespace
'`*`' Name
' ' Text.Whitespace
'then' Keyword
'\n ' Text.Whitespace
's' Name
',' Operator
' ' Text.Whitespace
'r' Name
' ' Text.Whitespace
':=' Operator
' ' Text.Whitespace
'selectremove' Name.Builtin
'(' Punctuation
'depends' Name
',' Operator
' ' Text.Whitespace
'w' Name
',' Operator
' ' Text.Whitespace
'var' Name
');' Punctuation
'\n ' Text.Whitespace
'if' Keyword
' ' Text.Whitespace
's' Name
' ' Text.Whitespace
'::' Operator
' ' Text.Whitespace
'`*`' Name
' ' Text.Whitespace
'then' Keyword
'\n ' Text.Whitespace
'# Nonlinear %1 (time to reread kiselyov-lifted?)\n'
 Comment.Single

' ' Text.Whitespace
'else' Keyword
'\n ' Text.Whitespace
'return' Keyword

```
' '          Text.Whitespace
'unproduct'   Name
'('          Punctuation
's'          Name
','          Operator
' '          Text.Whitespace
'var'        Name
','          Operator
' '          Text.Whitespace
'loop'       Name
','          Operator
'\n                    ' Text.Whitespace
'['          Punctuation
'op'         Name.Builtin
'('          Punctuation
'heap'       Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'Stmt'       Name
'('          Punctuation
'`*`'        Name
','          Operator
' '          Text.Whitespace
'[]'         Punctuation
','          Operator
' '          Text.Whitespace
'['          Punctuation
'r'          Name
'])]'        Punctuation
','          Operator
' '          Text.Whitespace
'`+`'        Name
','          Operator
' '          Text.Whitespace
'kb1'
        Name
','          Operator
' '          Text.Whitespace
'kb0'        Name
')'          Punctuation
'\n     '    Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
'\n    '     Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
```

```
'if'          Keyword
';'           Punctuation
'\n    '      Text.Whitespace
'if'          Keyword
' '           Text.Whitespace
'w'           Name
' '           Text.Whitespace
'::'          Operator
' '           Text.Whitespace
'And'         Name
'('           Punctuation
'specfunc'    Name
'('           Punctuation
'`if`'        Name
'('           Punctuation
'mode'        Name
' '           Text.Whitespace
'='           Operator
' '           Text.Whitespace
'`*`'         Name
','           Operator
' '           Text.Whitespace
'{'           Punctuation
'product'     Name
','           Operator
' '           Text.Whitespace
'Product'     Name
'}'           Punctuation
','
    Operator
' '           Text.Whitespace
'{'           Punctuation
'sum'         Name
','           Operator
' '           Text.Whitespace
'Sum'         Name
'}))'         Punctuation
','           Operator
'\n                ' Text.Whitespace
'anyfunc'     Name
'('           Punctuation
'anything'    Name
','           Operator
' '           Text.Whitespace
'name'        Name
'='           Operator
'range'       Name
'('           Punctuation
```

```
'freeof'      Name
'('           Punctuation
'var'         Name
'))))'        Punctuation
' '           Text.Whitespace
'then'        Keyword
'\n      '    Text.Whitespace
'x'           Name
','           Operator
' '           Text.Whitespace
'kb'          Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'genType'     Name
'('           Punctuation
'op'          Name.Builtin
'(['          Punctuation
'2'           Literal.Number.Integer
','           Operator
'1'           Literal.Number.Integer
']'
      Punctuation
','           Operator
'w'           Name
')'           Punctuation
','           Operator
' '           Text.Whitespace
'HInt'        Name
'('           Punctuation
'closed_bounds' Name
'('           Punctuation
'op'          Name.Builtin
'(['          Punctuation
'2'           Literal.Number.Integer
','           Operator
'2'           Literal.Number.Integer
']'           Punctuation
','           Operator
'w'           Name
')))'         Punctuation
','           Operator
' '           Text.Whitespace
'kb1'         Name
','           Operator
'\n                    ' Text.Whitespace
'w'           Name
','           Operator
```

```
' '          Text.Whitespace
'var'        Name
','          Operator
' '          Text.Whitespace
'loop'       Name
','          Operator
' '          Text.Whitespace
'heap'       Name
');'         Punctuation
'\n     '    Text.Whitespace
'return'     Keyword
' '          Text.Whitespace
'unproduct'  Name
'('          Punctuation
'eval'
       Name.Builtin
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'1'          Literal.Number.Integer
','          Operator
'w'          Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'op'         Name.Builtin
'(['         Punctuation
'2'          Literal.Number.Integer
','          Operator
'1'          Literal.Number.Integer
']'          Punctuation
','          Operator
'w'          Name
')'          Punctuation
'='          Operator
'x'          Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'var'        Name
','          Operator
' '          Text.Whitespace
'loop'       Name
','          Operator
'\n                    ' Text.Whitespace
'['          Punctuation
'op'         Name.Builtin
'('          Punctuation
```

```
'heap'        Name
')'           Punctuation
','           Operator
' '           Text.Whitespace
'Binder'      Name
'('           Punctuation
'op'
          Name.Builtin
'('           Punctuation
'0'           Literal.Number.Integer
','           Operator
'w'           Name
')'           Punctuation
','           Operator
' '           Text.Whitespace
'kb1'         Name
')]'          Punctuation
','           Operator
' '           Text.Whitespace
'mode'        Name
','           Operator
' '           Text.Whitespace
'kb'          Name
','           Operator
' '           Text.Whitespace
'kb0'         Name
')'           Punctuation
'\n    '      Text.Whitespace
'end'         Keyword
' '           Text.Whitespace
'if'          Keyword
';'           Punctuation
'\n    '      Text.Whitespace
'if'          Keyword
' '           Text.Whitespace
'mode'        Name
' '           Text.Whitespace
'='           Operator
' '           Text.Whitespace
'`*`'         Name
' '           Text.Whitespace
'and'         Keyword
' '           Text.Whitespace
'w'           Name
' '           Text.Whitespace
'::'          Operator
' '
```

Text.Whitespace
""" Punctuation
'{' Punctuation
'`+`' Name
',' Operator
' ' Text.Whitespace
'specfunc' Name
'({' Punctuation
'sum' Name
',' Operator
' ' Text.Whitespace
'Sum' Name
'})}' Punctuation
""" Punctuation
' ' Text.Whitespace
'then' Keyword
'\n ' Text.Whitespace
'# Maybe this w is one of those big sums involving products that are\n' Comment.Single

' ' Text.Whitespace
'# always equal to 1, left behind by the density of Categorical\n' Comment.Single

' ' Text.Whitespace
'w1' Name
' ' Text.Whitespace
':=' Operator
' ' Text.Whitespace
'graft' Name
'(' Punctuation
'split' Name
'(' Punctuation
'peel' Name
'(' Punctuation
'w' Name
')));' Punctuation
'\n ' Text.Whitespace
'w1' Name
' ' Text.Whitespace
':='
Operator
' ' Text.Whitespace
'combine' Name
'(' Punctuation
'rebase_upper' Name
'(' Punctuation
'w1' Name
'));' Punctuation
'\n ' Text.Whitespace

```
'w1'          Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'combine'     Name
'('           Punctuation
'rebase_lower' Name
'('           Punctuation
'w1'          Name
'));'         Punctuation
'\n     '     Text.Whitespace
'return'      Keyword
' '           Text.Whitespace
'['           Punctuation
'wrap'        Name
'('           Punctuation
'heap'        Name
','           Operator
' '           Text.Whitespace
'w1'          Name
','           Operator
' '           Text.Whitespace
'mode'        Name
','           Operator
' '           Text.Whitespace
'kb1'         Name
','           Operator
' '           Text.Whitespace
'kb0'         Name
')'           Punctuation
','           Operator
' '           Text.Whitespace
'1'
            Literal.Number.Integer
']'           Punctuation
'\n    '      Text.Whitespace
'end'         Keyword
' '           Text.Whitespace
'if'          Keyword
';'           Punctuation
'\n    '      Text.Whitespace
'return'      Keyword
' '           Text.Whitespace
'['           Punctuation
'wrap'        Name
'('           Punctuation
'heap'        Name
','           Operator
```

```
' '          Text.Whitespace
'w'          Name
','          Operator
' '          Text.Whitespace
'mode'       Name
','          Operator
' '          Text.Whitespace
'kb1'        Name
','          Operator
' '          Text.Whitespace
'kb0'        Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'1'          Literal.Number.Integer
']'          Punctuation
'\n  '       Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
';'          Punctuation
'\n\n  '     Text.Whitespace
'enter_piecewise' Name
' '          Text.Whitespace
':='
         Operator
' '          Text.Whitespace
'proc'       Keyword
'('          Punctuation
'ee'         Name
','          Operator
' '          Text.Whitespace
'kb0'        Name
'::'         Operator
't_kb'       Name
','          Operator
' '          Text.Whitespace
'mode'       Name
'::'         Operator
'identical'  Name
'('          Punctuation
'`*`'        Name
','          Operator
'`+`'        Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'$'          Operator
```

```
')'          Punctuation
'\n    '      Text.Whitespace
'local'       Keyword
' '           Text.Whitespace
'e'           Name
','           Operator
' '           Text.Whitespace
'kb'          Name
','           Operator
' '           Text.Whitespace
'mo'          Name
';'           Punctuation
'\n    '      Text.Whitespace
'e'           Name
'  '          Text.Whitespace
':='          Operator
' '           Text.Whitespace
'ee'          Name
';'
          Punctuation
'\n    '      Text.Whitespace
'kb'          Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'kb0'         Name
';'           Punctuation
'\n    '      Text.Whitespace
'mo'          Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'mode'        Name
'();'         Punctuation
'\n    '      Text.Whitespace
'while'       Keyword
' '           Text.Whitespace
'e'           Name
' '           Text.Whitespace
'::'          Operator
' '           Text.Whitespace
'"'           Punctuation
'specfunc'    Name
'('           Punctuation
'piecewise'   Name.Builtin
')'           Punctuation
'"'           Punctuation
' '           Text.Whitespace
```

```
'and'        Keyword
' '          Text.Whitespace
'nops'       Name.Builtin
'('          Punctuation
'e'          Name
')'          Punctuation
' '          Text.Whitespace
'='          Operator
' '          Text.Whitespace
'3'          Literal.Number.Integer
'
 '           Text.Whitespace
'do'         Keyword
'\n     '    Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'3'          Literal.Number.Integer
','          Operator
'e'          Name
')'          Punctuation
' '          Text.Whitespace
'='          Operator
' '          Text.Whitespace
'mo'         Name
' '          Text.Whitespace
'then'       Keyword
'\n       '  Text.Whitespace
'kb'         Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'assert'     Name
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'1'          Literal.Number.Integer
','          Operator
'e'          Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'kb'         Name
');'         Punctuation
'\n       '  Text.Whitespace
'e'          Name
' '          Text.Whitespace
```

```
':='        Operator
' '
        Text.Whitespace
'op'        Name.Builtin
'('         Punctuation
'2'         Literal.Number.Integer
','         Operator
'e'         Name
');'        Punctuation
'\n     '   Text.Whitespace
'elif'      Keyword
' '         Text.Whitespace
'op'        Name.Builtin
'('         Punctuation
'2'         Literal.Number.Integer
','         Operator
'e'         Name
')'         Punctuation
' '         Text.Whitespace
'='         Operator
' '         Text.Whitespace
'mo'        Name
' '         Text.Whitespace
'then'      Keyword
'\n       ' Text.Whitespace
'kb'        Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'assert'    Name
'('         Punctuation
'Not'       Name
'('         Punctuation
'op'        Name.Builtin
'('         Punctuation
'1'         Literal.Number.Integer
','         Operator
'e'         Name
'))'        Punctuation
','         Operator
' '         Text.Whitespace
'kb'
        Name
');'        Punctuation
'\n       ' Text.Whitespace
'e'         Name
' '         Text.Whitespace
':='        Operator
```

' ' Text.Whitespace
'op' Name.Builtin
'(' Punctuation
'3' Literal.Number.Integer
',' Operator
'e' Name
');' Punctuation
'\n ' Text.Whitespace
'else' Keyword
'\n ' Text.Whitespace
'break' Keyword
';' Punctuation
'\n ' Text.Whitespace
'end' Keyword
' ' Text.Whitespace
'if' Keyword
';' Punctuation
'\n ' Text.Whitespace
'end' Keyword
' ' Text.Whitespace
'do' Keyword
';' Punctuation
'\n ' Text.Whitespace
'ASSERT' Name.Builtin
'(' Punctuation
'type' Name.Builtin
'(' Punctuation
'kb' Name
',' Operator
't_kb' Name
')' Punctuation
',' Operator
' ' Text.Whitespace
'"enter_piecewise:
 KB of piecewise conditions is not valid, so the input piecewise must not be valid.'" Literal.String
');' Punctuation
'\n ' Text.Whitespace
'e' Name
',' Operator
' ' Text.Whitespace
'kb' Name
'\n ' Text.Whitespace
'end' Keyword
' ' Text.Whitespace
'proc' Keyword
';' Punctuation
'\n\n ' Text.Whitespace
'# heap is a list of t_binder and t_stmt\n' Comment.Single

```
' '          Text.Whitespace
'# one invariant to maintain:\n' Comment.Single

' '          Text.Whitespace
'#  wrap(heap, mode(a,b)) = wrap(heap,a) * wrap(heap,b)\n' Comment.Single

'\n  '        Text.Whitespace
'# Also, a t_binder is a Product/product/Sum/sum.\n' Comment.Single

' '          Text.Whitespace
'# And, a t_stmt is a 1-hole context of a (multiplicative) AST,\n' Comment.Single

' '          Text.Whitespace
'#   used for [a ^ hole, hole ^ b, exp(hole), c * hole].\n' Comment.Single

'\n
  '        Text.Whitespace
'wrap'        Name
' '          Text.Whitespace
':='          Operator
' '          Text.Whitespace
'proc'        Keyword
'('           Punctuation
'heap'        Name
'::'          Operator
'list'        Name
','           Operator
' '          Text.Whitespace
'e1'          Name
','           Operator
' '          Text.Whitespace
'mode1'       Name
'::'          Operator
'identical'   Name
'('           Punctuation
'`*`'         Name
','           Operator
'`+`'         Name
')'           Punctuation
','           Operator
'\n              ' Text.Whitespace
'kb1'         Name
'::'          Operator
't_kb'        Name
','           Operator
' '          Text.Whitespace
'kb0'         Name
```

```
'::'        Operator
't_kb'      Name
','         Operator
' '         Text.Whitespace
'$'         Operator
')'         Punctuation
'\n    '    Text.Whitespace
'local'     Keyword
' '         Text.Whitespace
'e'         Name
','         Operator
'
 '          Text.Whitespace
'kb'        Name
','         Operator
' '         Text.Whitespace
'mode'      Name
','         Operator
' '         Text.Whitespace
'i'         Name
','         Operator
' '         Text.Whitespace
'entry'     Name
','         Operator
' '         Text.Whitespace
'rest'      Name
','         Operator
' '         Text.Whitespace
'var'       Name
','         Operator
' '         Text.Whitespace
'new_rng'   Name
','         Operator
' '         Text.Whitespace
'make'      Name
','         Operator
' '         Text.Whitespace
'logmake'   Name
','         Operator
'\n       '  Text.Whitespace
'dom_spec'  Name
','         Operator
' '         Text.Whitespace
'w'         Name
','         Operator
' '         Text.Whitespace
'wPow'      Name
','         Operator
```

```
' '          Text.Whitespace
'wExp'       Name
','          Operator
' '          Text.Whitespace
'arrrgs'     Name
';'          Punctuation
'\n
    '     Text.Whitespace
'e'          Name
'    '       Text.Whitespace
':='         Operator
' '          Text.Whitespace
'e1'         Name
';'          Punctuation
'\n    '     Text.Whitespace
'kb'         Name
'   '        Text.Whitespace
':='         Operator
' '          Text.Whitespace
'kb1'        Name
';'          Punctuation
'\n    '     Text.Whitespace
'mode'       Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'mode1'      Name
';'          Punctuation
'\n    '     Text.Whitespace
'for'        Keyword
' '          Text.Whitespace
'i'          Name
' '          Text.Whitespace
'from'       Keyword
' '          Text.Whitespace
'nops'       Name.Builtin
'('          Punctuation
'heap'       Name
')'          Punctuation
' '          Text.Whitespace
'to'         Keyword
' '          Text.Whitespace
'1'          Literal.Number.Integer
' '          Text.Whitespace
'by'         Keyword
' '
        Text.Whitespace
'-'          Operator
```

```
'1'          Literal.Number.Integer
' '          Text.Whitespace
'do'         Keyword
'\n      '   Text.Whitespace
'entry'      Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'i'          Name
','          Operator
'heap'       Name
');'         Punctuation
'\n      '   Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'entry'      Name
' '          Text.Whitespace
'::'         Operator
' '          Text.Whitespace
't_binder'   Name
' '          Text.Whitespace
'then'       Keyword
'\n        ' Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'not'        Keyword
' '          Text.Whitespace
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'1'          Literal.Number.Integer
','          Operator
'entry'      Name
')'          Punctuation
' '          Text.Whitespace
'in'
         Keyword
' '          Text.Whitespace
'`if`'       Name
'('          Punctuation
'mode'       Name
'='          Operator
'`+`'        Name
','          Operator
' '          Text.Whitespace
'{'          Punctuation
```

```
'sum'          Name
','            Operator
'Sum'          Name
'}'            Punctuation
','            Operator
'\n                                    ' Text.Whitespace
'{'            Punctuation
'product'      Name
','            Operator
'Product'      Name
'}))'          Punctuation
' '            Text.Whitespace
'then'         Keyword
'\n            ' Text.Whitespace
'print'        Name.Builtin
'('            Punctuation
'"Warning: heap mode inconsistency"' Literal.String
','            Operator
' '            Text.Whitespace
'heap'         Name
','            Operator
' '            Text.Whitespace
'mode1'        Name
')'            Punctuation
'\n        '  Text.Whitespace
'end'          Keyword
' '            Text.Whitespace
'if'           Keyword
';'
           Punctuation
'\n        '  Text.Whitespace
'e'            Name
','            Operator
' '            Text.Whitespace
'kb'           Name
' '            Text.Whitespace
':='           Operator
' '            Text.Whitespace
'enter_piecewise' Name
'('            Punctuation
'e'            Name
','            Operator
' '            Text.Whitespace
'kb'           Name
','            Operator
' '            Text.Whitespace
'mode'         Name
');'           Punctuation
```

```
'\n        '  Text.Whitespace
'rest'        Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'kb_subtract' Name
'('           Punctuation
'kb'          Name
','           Operator
' '           Text.Whitespace
'op'          Name.Builtin
'('           Punctuation
'2'           Literal.Number.Integer
','           Operator
'entry'       Name
'));'         Punctuation
'\n        '  Text.Whitespace
'new_rng'     Name
','           Operator
' '           Text.Whitespace
'rest'        Name
' '
          Text.Whitespace
':='          Operator
' '           Text.Whitespace
'selectremove' Name.Builtin
'('           Punctuation
'type'        Name.Builtin
','           Operator
' '           Text.Whitespace
'rest'        Name
','           Operator
'\n          ' Text.Whitespace
'{['          Punctuation
'identical'   Name
'('           Punctuation
'genType'     Name
')'           Punctuation
','           Operator
' '           Text.Whitespace
'name'        Name
','           Operator
' '           Text.Whitespace
'specfunc'    Name
'('           Punctuation
'HInt'        Name
')]'          Punctuation
','           Operator
```

```
'\n          ' Text.Whitespace
'['          Punctuation
'identical'   Name
'('          Punctuation
'genLet'      Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'name'        Name
','          Operator
' '          Text.Whitespace
'anything'    Name
']});'        Punctuation
'\n        '  Text.Whitespace
'if'
  Keyword
' '          Text.Whitespace
'not'         Keyword
' '          Text.Whitespace
'('          Punctuation
'new_rng'     Name
' '          Text.Whitespace
'::'         Operator
' '          Text.Whitespace
'['          Punctuation
'list'        Name
'])'         Punctuation
' '          Text.Whitespace
'then'        Keyword
'\n          ' Text.Whitespace
'error'       Keyword
' '          Text.Whitespace
'"kb_subtract should return exactly one gen*"' Literal.String
'\n        '  Text.Whitespace
'end'         Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n        '  Text.Whitespace
'new_rng'     Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'new_rng'     Name
');'         Punctuation
'\n        '  Text.Whitespace
```

```
'var'         Name
'    '        Text.Whitespace
':='          Operator
' '           Text.Whitespace
'op'          Name.Builtin
'('
            Punctuation
'2'           Literal.Number.Integer
','           Operator
'new_rng'     Name
');'          Punctuation
'\n        '  Text.Whitespace
'if'          Keyword
' '           Text.Whitespace
'op'          Name.Builtin
'('           Punctuation
'1'           Literal.Number.Integer
','           Operator
'new_rng'     Name
')'           Punctuation
' '           Text.Whitespace
'='           Operator
' '           Text.Whitespace
'genType'     Name
' '           Text.Whitespace
'then'        Keyword
'\n          ' Text.Whitespace
'make'        Name
'    '        Text.Whitespace
':='          Operator
' '           Text.Whitespace
'op'          Name.Builtin
'('           Punctuation
'1'           Literal.Number.Integer
','           Operator
'entry'       Name
');'          Punctuation
'\n          ' Text.Whitespace
'new_rng'     Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'range_of_HInt' Name
'('           Punctuation
'op'
          Name.Builtin
'('           Punctuation
'3'           Literal.Number.Integer
```

```
','          Operator
'new_rng'     Name
'));'         Punctuation
'\n        '  Text.Whitespace
'else'        Keyword
' '           Text.Whitespace
'# op(1,new_rng) = genLet\n' Comment.Single

'          '  Text.Whitespace
'make'        Name
'    '        Text.Whitespace
':='          Operator
' '           Text.Whitespace
'eval'        Name.Builtin
';'           Punctuation
'\n          ' Text.Whitespace
'new_rng'     Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'op'          Name.Builtin
'('           Punctuation
'3'           Literal.Number.Integer
','           Operator
'new_rng'     Name
');'          Punctuation
'\n        '  Text.Whitespace
'end'         Keyword
' '           Text.Whitespace
'if'          Keyword
';'           Punctuation
'\n        '  Text.Whitespace
'dom_spec'    Name
','           Operator
' '           Text.Whitespace
'rest'
        Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'selectremove' Name.Builtin
'('           Punctuation
'depends'     Name
','           Operator
'\n          ' Text.Whitespace
'map'         Name.Builtin
'('           Punctuation
'proc'        Keyword
```

```
'('          Punctuation
'a'          Name
'::'         Operator
'['          Punctuation
'identical'  Name
'('          Punctuation
'assert'     Name
')'          Punctuation
','          Operator
'anything'   Name
']'          Punctuation
','          Operator
'$'          Operator
')'          Punctuation
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'2'          Literal.Number.Integer
','          Operator
'a'          Name
')'          Punctuation
' '          Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
','          Operator
' '          Text.Whitespace
'rest'       Name
')'
  Punctuation
','          Operator
'\n          ' Text.Whitespace
'var'        Name
');'         Punctuation
'\n\n        ' Text.Whitespace
'# Like e := make(piecewise(And(op(dom_spec)), e, mode()), var=new_rng);\n' Comment.Single

'        '   Text.Whitespace
'# but try to simplify by pushing the make and the piecewise into e\n' Comment.Single

'        '   Text.Whitespace
'('          Punctuation
'e'          Name
','          Operator
' '          Text.Whitespace
'w'          Name
')'          Punctuation
' '          Text.Whitespace
```

```
':='          Operator
' '           Text.Whitespace
'selectremove' Name.Builtin
'('           Punctuation
'depends'     Name
','           Operator
' '           Text.Whitespace
'convert'     Name.Builtin
'('           Punctuation
'e'           Name
','           Operator
' '           Text.Whitespace
"""           Punctuation
'list'        Name
"""           Punctuation
','           Operator
' '           Text.Whitespace
'`*`'         Name
')'
           Punctuation
','           Operator
' '           Text.Whitespace
'var'         Name
');'          Punctuation
'\n        '  Text.Whitespace
'w'           Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'`*`'         Name
'('           Punctuation
'op'          Name.Builtin
'('           Punctuation
'w'           Name
'));'         Punctuation
'\n        '  Text.Whitespace
'if'          Keyword
' '           Text.Whitespace
'mode'        Name
' '           Text.Whitespace
'='           Operator
' '           Text.Whitespace
'`*`'         Name
' '           Text.Whitespace
'then'        Keyword
'\n          ' Text.Whitespace
'('           Punctuation
'wPow'        Name
```

```
','         Operator
' '         Text.Whitespace
'e'         Name
')'         Punctuation
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'selectremove' Name.Builtin
'('         Punctuation
'type'      Name.Builtin
','
        Operator
' '         Text.Whitespace
'e'         Name
','         Operator
' '         Text.Whitespace
'''         Punctuation
'`^`'       Name
'''         Punctuation
'('         Punctuation
'''         Punctuation
'freeof'    Name
'''         Punctuation
'('         Punctuation
'var'       Name
')'         Punctuation
','         Operator
' '         Text.Whitespace
'''         Punctuation
'anything'  Name
'''         Punctuation
'));'       Punctuation
'\n         ' Text.Whitespace
'('         Punctuation
'wExp'      Name
','         Operator
' '         Text.Whitespace
'e'         Name
')'         Punctuation
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'selectremove' Name.Builtin
'('         Punctuation
'type'      Name.Builtin
','         Operator
' '         Text.Whitespace
'e'         Name
```

```
','          Operator
' '          Text.Whitespace
"""          Punctuation
'exp'
        Name
'('          Punctuation
'anything'    Name
')'          Punctuation
"""          Punctuation
');'         Punctuation
'\n          ' Text.Whitespace
'wExp'       Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'`+`'        Name
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'map2'       Name
'('          Punctuation
'op'         Name.Builtin
','          Operator
' '          Text.Whitespace
'1'          Literal.Number.Integer
','          Operator
' '          Text.Whitespace
'wExp'       Name
')));'       Punctuation
'\n          ' Text.Whitespace
'wExp'       Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'expand'     Name.Builtin
'('          Punctuation
'wExp'       Name
','          Operator
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'indets'     Name.Builtin
'('          Punctuation
'wExp'
        Name
','          Operator
' '          Text.Whitespace
'function'    Name
```

```
')));'        Punctuation
'\n           ' Text.Whitespace
'logmake'     Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'proc'        Keyword
'('           Punctuation
't'           Name
')'           Punctuation
'\n           ' Text.Whitespace
'local'       Keyword
' '           Text.Whitespace
's'           Name
','           Operator
' '           Text.Whitespace
'r'           Name
';'           Punctuation
'\n           ' Text.Whitespace
's'           Name
','           Operator
' '           Text.Whitespace
'r'           Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'selectremove' Name.Builtin
'('           Punctuation
'depends'     Name
','           Operator
' '           Text.Whitespace
'convert'     Name.Builtin
'('           Punctuation
't'           Name
','           Operator
' '           Text.Whitespace
"""
          Punctuation
'list'        Name
"""           Punctuation
','           Operator
' '           Text.Whitespace
'`*`'         Name
')'           Punctuation
','           Operator
' '           Text.Whitespace
'var'         Name
');'          Punctuation
```

```
'\n            ' Text.Whitespace
'`*`'        Name
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'r'          Name
')'          Punctuation
','          Operator
'\n               ' Text.Whitespace
'`if`'       Name
'('          Punctuation
'make'       Name
'='          Operator
'eval'       Name.Builtin
','          Operator
'eval'       Name.Builtin
','          Operator
'Sum'        Name
')'          Punctuation
'\n                   ' Text.Whitespace
'('          Punctuation
'piecewise_And' Name
'('          Punctuation
'dom_spec'    Name
','          Operator
' '          Text.Whitespace
'`*`'        Name
'('          Punctuation
'op'         Name.Builtin
'('
    Punctuation
's'          Name
'))'         Punctuation
','          Operator
' '          Text.Whitespace
'0'          Literal.Number.Integer
')'          Punctuation
','          Operator
' '          Text.Whitespace
'var'        Name
'='          Operator
'new_rng'     Name
'));'        Punctuation
'\n          ' Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
';'          Punctuation
```

```
'\n          ' Text.Whitespace
'w'          Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'`*`'        Name
'('          Punctuation
' '          Text.Whitespace
'`if`'       Name
'('          Punctuation
'w'          Name
' '          Text.Whitespace
'='          Operator
' '          Text.Whitespace
'1'          Literal.Number.Integer
','          Operator
' '          Text.Whitespace
'1'          Literal.Number.Integer
','          Operator
' '          Text.Whitespace
'w'          Name
'
 '          Text.Whitespace
'^'          Operator
' '          Text.Whitespace
'logmake'    Name
'('          Punctuation
'1'          Literal.Number.Integer
'))'         Punctuation
'\n                ' Text.Whitespace
','          Operator
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'map'        Name.Builtin
'((('        Punctuation
'f'          Name
' '          Text.Whitespace
'->'         Operator
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'1'          Literal.Number.Integer
','          Operator
'f'          Name
')'          Punctuation
' '          Text.Whitespace
'^'          Operator
```

```
' '          Text.Whitespace
'logmake'    Name
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'2'          Literal.Number.Integer
','          Operator
'f'          Name
')))'        Punctuation
','          Operator
' '          Text.Whitespace
'wPow'
    Name
'))'         Punctuation
'\n                ' Text.Whitespace
','          Operator
' '          Text.Whitespace
'`if`'       Name
'('          Punctuation
'wExp'       Name
' '          Text.Whitespace
'='          Operator
' '          Text.Whitespace
'0'          Literal.Number.Integer
','          Operator
' '          Text.Whitespace
'1'          Literal.Number.Integer
','          Operator
' '          Text.Whitespace
'exp'        Name
'('          Punctuation
'maptype'    Name
'('          Punctuation
'`+`'        Name
','          Operator
'logmake'    Name
','          Operator
'wExp'       Name
')))'        Punctuation
' '          Text.Whitespace
');'         Punctuation
'\n       '  Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n       '  Text.Whitespace
'e'          Name
```

' ' Text.Whitespace
':=' Operator
' ' Text.Whitespace
'w'
  Name
' ' Text.Whitespace
'*' Operator
' ' Text.Whitespace
'make' Name
'(' Punctuation
'piecewise_And' Name
'(' Punctuation
'dom_spec' Name
',' Operator
' ' Text.Whitespace
'`*`' Name
'(' Punctuation
'op' Name.Builtin
'(' Punctuation
'e' Name
'))' Punctuation
',' Operator
' ' Text.Whitespace
'mode' Name
'())' Punctuation
',' Operator
' ' Text.Whitespace
'var' Name
'=' Operator
'new_rng' Name
');' Punctuation
'\n\n' Text.Whitespace
"# `rest' originally comes from `entry', and this reinserts it after some\n" Comment.Single

' ' Text.Whitespace
'# processing. The original KB was valid, so this one should also be valid.\n' Comment.Single

' ' Text.Whitespace
'kb' Name
' ' Text.Whitespace
':=' Operator
' '
  Text.Whitespace
'foldr' Name
'(' Punctuation
'assert' Name
',' Operator
' ' Text.Whitespace

```
'op'          Name.Builtin
'('           Punctuation
'2'           Literal.Number.Integer
','           Operator
'entry'       Name
')'           Punctuation
','           Operator
' '           Text.Whitespace
'op'          Name.Builtin
'('           Punctuation
'rest'        Name
'));'         Punctuation
'\n        '  Text.Whitespace
'ASSERT'      Name.Builtin
'('           Punctuation
'type'        Name.Builtin
'('           Punctuation
'kb'          Name
','           Operator
't_kb'        Name
')'           Punctuation
','           Operator
' '           Text.Whitespace
'"Loop/wrap{t_binder}: rebuilding kb produced contradiction"' Literal.String
');'          Punctuation
'\n\n      '  Text.Whitespace
'elif'        Keyword
' '           Text.Whitespace
'entry'       Name
' '           Text.Whitespace
'::'          Operator
' '           Text.Whitespace
't_stmt'
      Name
' '           Text.Whitespace
'then'        Keyword
'\n        '  Text.Whitespace
'# We evaluate arrrgs first, in case op(1,stmt) is an operation (such as\n' Comment.Single

'        '    Text.Whitespace
'# piecewise) that looks ahead at how many arguments it is passed before\n' Comment.Single

'        '    Text.Whitespace
'# they are evaluated.\n' Comment.Single

'        '    Text.Whitespace
'arrrgs'      Name
' '           Text.Whitespace
```

```
':='        Operator
' '         Text.Whitespace
'op'        Name.Builtin
'('         Punctuation
'op'        Name.Builtin
'('         Punctuation
'2'         Literal.Number.Integer
','         Operator
'entry'     Name
'))'        Punctuation
','         Operator
' '         Text.Whitespace
'e'         Name
','         Operator
' '         Text.Whitespace
'op'        Name.Builtin
'('         Punctuation
'op'        Name.Builtin
'('         Punctuation
'3'         Literal.Number.Integer
','
         Operator
'entry'     Name
'));'       Punctuation
'\n       '  Text.Whitespace
'e'         Name
'     '     Text.Whitespace
':='        Operator
' '         Text.Whitespace
'op'        Name.Builtin
'('         Punctuation
'1'         Literal.Number.Integer
','         Operator
'entry'     Name
')('        Punctuation
'arrrgs'    Name
');'        Punctuation
'\n       '  Text.Whitespace
'if'        Keyword
' '         Text.Whitespace
'entry'     Name
' '         Text.Whitespace
'::'        Operator
' '         Text.Whitespace
't_exp'     Name
' '         Text.Whitespace
'then'      Keyword
'\n        ' Text.Whitespace
```

```
'if'          Keyword
' '          Text.Whitespace
'mode'        Name
' '          Text.Whitespace
'<>'          Operator
' '          Text.Whitespace
'`+`'         Name
' '          Text.Whitespace
'then'        Keyword
'\n           ' Text.Whitespace
'print'       Name.Builtin
'('          Punctuation
'"Warning:
 heap mode inconsistency?"' Literal.String
','          Operator
' '          Text.Whitespace
'heap'        Name
','          Operator
' '          Text.Whitespace
'mode1'       Name
')'          Punctuation
'\n          ' Text.Whitespace
'end'         Keyword
' '          Text.Whitespace
'if'          Keyword
';'          Punctuation
'\n          ' Text.Whitespace
'mode'        Name
' '          Text.Whitespace
':='          Operator
' '          Text.Whitespace
'`*`'         Name
';'          Punctuation
'\n        '  Text.Whitespace
'end'         Keyword
' '          Text.Whitespace
'if'          Keyword
'\n      '    Text.Whitespace
'else'        Keyword
' '          Text.Whitespace
'error'       Keyword
' '          Text.Whitespace
'"Malformed heap entry %1"' Literal.String
','          Operator
' '          Text.Whitespace
'entry'       Name
' '          Text.Whitespace
'end'         Keyword
```

```
' '          Text.Whitespace
'if'         Keyword
'\n
   '      Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'do'         Keyword
';'          Punctuation
'\n    '     Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'mode'       Name
' '          Text.Whitespace
'<>'         Operator
' '          Text.Whitespace
'`*`'        Name
' '          Text.Whitespace
'then'       Keyword
'\n      '   Text.Whitespace
'print'      Name.Builtin
'('          Punctuation
'"Warning: heap mode inconsistency??"' Literal.String
','          Operator
' '          Text.Whitespace
'heap'       Name
','          Operator
' '          Text.Whitespace
'mode1'      Name
')'          Punctuation
'\n    '     Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n    '     Text.Whitespace
'e'          Name
','          Operator
' '          Text.Whitespace
'kb'         Name
' '          Text.Whitespace
':='         Operator
' '
     Text.Whitespace
'enter_piecewise' Name
'('          Punctuation
'e'          Name
','          Operator
' '          Text.Whitespace
```

```
'kb'          Name
','           Operator
' '           Text.Whitespace
'mode'        Name
');'          Punctuation
'\n    '      Text.Whitespace
'rest'        Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'kb_subtract' Name
'('           Punctuation
'kb'          Name
','           Operator
' '           Text.Whitespace
'kb0'         Name
');'          Punctuation
'\n    '      Text.Whitespace
'rest'        Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'map'         Name.Builtin
'('           Punctuation
'proc'        Keyword
'('           Punctuation
'a'           Name
'::'          Operator
'['           Punctuation
'identical'   Name
'('           Punctuation
'assert'      Name
')'           Punctuation
','           Operator
'anything'    Name
']'
 Punctuation
','           Operator
'$'           Operator
')'           Punctuation
' '           Text.Whitespace
'op'          Name.Builtin
'('           Punctuation
'2'           Literal.Number.Integer
','           Operator
'a'           Name
')'           Punctuation
' '           Text.Whitespace
```

```
'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
','          Operator
' '          Text.Whitespace
'rest'       Name
');'         Punctuation
'\n    '     Text.Whitespace
'('          Punctuation
'wExp'       Name
','          Operator
' '          Text.Whitespace
'e'          Name
')'          Punctuation
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'selectremove' Name.Builtin
'('          Punctuation
'type'       Name.Builtin
','          Operator
' '          Text.Whitespace
'convert'    Name.Builtin
'('          Punctuation
'e'          Name
','          Operator
' '          Text.Whitespace
"""
    Punctuation
'list'       Name
"""          Punctuation
','          Operator
' '          Text.Whitespace
'`*`'        Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
"""          Punctuation
'exp'        Name
'('          Punctuation
'anything'   Name
')'          Punctuation
"""          Punctuation
');'         Punctuation
'\n    '     Text.Whitespace
'wExp'       Name
' '          Text.Whitespace
':='         Operator
```

```
' '          Text.Whitespace
'`+`'        Name
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'map2'       Name
'('          Punctuation
'op'         Name.Builtin
','          Operator
' '          Text.Whitespace
'1'          Literal.Number.Integer
','          Operator
' '          Text.Whitespace
'wExp'       Name
')));'       Punctuation
'\n    '     Text.Whitespace
'wExp'       Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'expand'
     Name.Builtin
'('          Punctuation
'wExp'       Name
','          Operator
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'indets'     Name.Builtin
'('          Punctuation
'wExp'       Name
','          Operator
' '          Text.Whitespace
'function'   Name
')));'       Punctuation
'\n    '     Text.Whitespace
'logmake'    Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'('          Punctuation
't'          Name
' '          Text.Whitespace
'->'         Operator
' '          Text.Whitespace
't'          Name
' '          Text.Whitespace
'*'          Operator
```

```
' '          Text.Whitespace
'piecewise_And' Name
'('          Punctuation
'rest'       Name
','          Operator
'1'          Literal.Number.Integer
','          Operator
'0'          Literal.Number.Integer
'));'        Punctuation
'\n    '     Text.Whitespace
'`if`'       Name
'('          Punctuation
'wExp'
       Name
' '          Text.Whitespace
'='          Operator
' '          Text.Whitespace
'0'          Literal.Number.Integer
','          Operator
' '          Text.Whitespace
'1'          Literal.Number.Integer
','          Operator
' '          Text.Whitespace
'exp'        Name
'('          Punctuation
'maptype'    Name
'('          Punctuation
'`+`'        Name
','          Operator
'logmake'    Name
','          Operator
'wExp'       Name
')))'        Punctuation
'\n     '    Text.Whitespace
'*'          Operator
' '          Text.Whitespace
'piecewise_And' Name
'('          Punctuation
'rest'       Name
','          Operator
'`*`'        Name
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'e'          Name
'))'         Punctuation
','          Operator
'1'          Literal.Number.Integer
```

```
');'          Punctuation
'\n  '        Text.Whitespace
'end'         Keyword
' '           Text.Whitespace
'proc'        Keyword
';'
           Punctuation
'\n\n  '      Text.Whitespace
'# Rewrite product(...piecewise(i+42=lo+42,th,el)...,i=lo..hi)\n' Comment.Single

'  '          Text.Whitespace
'# to eval(...th...,i=lo)*product(...el...,i=lo+1..hi)\n' Comment.Single

'  '          Text.Whitespace
't_peel'      Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'"'           Punctuation
'And'         Name
'('           Punctuation
'specfunc'    Name
'({'          Punctuation
'sum'         Name
','           Operator
'Sum'         Name
','           Operator
'product'     Name
','           Operator
'Product'     Name
'})'          Punctuation
','           Operator
'\n                ' Text.Whitespace
'anyfunc'     Name
'('           Punctuation
'anything'    Name
','           Operator
' '           Text.Whitespace
'name'        Name
'='           Operator
'range'       Name
'))'          Punctuation
'"'           Punctuation
';'           Punctuation
'\n  '        Text.Whitespace
'peel'
        Name
' '           Text.Whitespace
```

```
':='          Operator
' '           Text.Whitespace
'proc'        Keyword
'('           Punctuation
'e'           Name
','           Operator
' '           Text.Whitespace
'$'           Operator
')'           Punctuation
'\n    '      Text.Whitespace
'subsindets'  Name.Builtin
'('           Punctuation
'e'           Name
','           Operator
' '           Text.Whitespace
't_peel'      Name
','           Operator
' '           Text.Whitespace
'do_peel'     Name
');'          Punctuation
'\n  '        Text.Whitespace
'end'         Keyword
' '           Text.Whitespace
'proc'        Keyword
';'           Punctuation
'\n  '        Text.Whitespace
'do_peel'     Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'proc'        Keyword
'('           Punctuation
'e'           Name
','           Operator
' '           Text.Whitespace
'$'           Operator
')'           Punctuation
'\n    '
 Text.Whitespace
'local'       Keyword
' '           Text.Whitespace
'make'        Name
','           Operator
' '           Text.Whitespace
'body'        Name
','           Operator
' '           Text.Whitespace
'x'           Name
```

```
','         Operator
' '         Text.Whitespace
'r'         Name
','         Operator
' '         Text.Whitespace
'cond'      Name
','         Operator
' '         Text.Whitespace
'line'      Name
','         Operator
' '         Text.Whitespace
'test'      Name
','         Operator
' '         Text.Whitespace
'x0'        Name
','         Operator
' '         Text.Whitespace
'r0'        Name
','         Operator
' '         Text.Whitespace
'cond0'     Name
','         Operator
' '         Text.Whitespace
'here'      Name
','         Operator
' '         Text.Whitespace
'rest'      Name
';'         Punctuation
'\n    '    Text.Whitespace
'if'        Keyword
' '         Text.Whitespace
'not'
  Keyword
' '         Text.Whitespace
'('         Punctuation
'e'         Name
' '         Text.Whitespace
'::'        Operator
' '         Text.Whitespace
't_peel'    Name
')'         Punctuation
' '         Text.Whitespace
'then'      Keyword
' '         Text.Whitespace
'return'    Keyword
' '         Text.Whitespace
'e'         Name
' '         Text.Whitespace
```

```
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n    '     Text.Whitespace
'if'         Keyword
'   '        Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'0'          Literal.Number.Integer
','          Operator
'e'          Name
')'          Punctuation
' '          Text.Whitespace
'in'         Keyword
' '          Text.Whitespace
'"'          Punctuation
'{'          Punctuation
'sum'        Name
'    '       Text.Whitespace
','          Operator
'Sum'        Name
'    '       Text.Whitespace
'}'
    Punctuation
'"'          Punctuation
' '          Text.Whitespace
'then'       Keyword
' '          Text.Whitespace
'make'       Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'`+`'        Name
';'          Punctuation
'\n    '     Text.Whitespace
'elif'       Keyword
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'0'          Literal.Number.Integer
','          Operator
'e'          Name
')'          Punctuation
' '          Text.Whitespace
'in'         Keyword
' '          Text.Whitespace
'"'          Punctuation
```

```
'{'          Punctuation
'product'    Name
','          Operator
'Product'    Name
'}'          Punctuation
"""          Punctuation
' '          Text.Whitespace
'then'       Keyword
' '          Text.Whitespace
'make'       Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'`*`'        Name
';'          Punctuation
' '
  Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n    '     Text.Whitespace
'body'       Name
','          Operator
' '          Text.Whitespace
'r'          Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'e'          Name
');'         Punctuation
'\n    '     Text.Whitespace
'x'          Name
','          Operator
' '          Text.Whitespace
'r'          Name
'    '       Text.Whitespace
':='         Operator
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'r'          Name
');'         Punctuation
'\n    '     Text.Whitespace
'for'        Keyword
' '          Text.Whitespace
```

```
'cond'        Name
' '           Text.Whitespace
'in'          Keyword
' '           Text.Whitespace
'indets'      Name.Builtin
'('           Punctuation
'body'        Name
','           Operator
'
 '            Text.Whitespace
"""           Punctuation
'{'           Punctuation
'`=`'         Name
'('           Punctuation
'algebraic'   Name
')'           Punctuation
','           Operator
'`<`'         Name
','           Operator
'`<=`'        Name
'}'           Punctuation
"""           Punctuation
')'           Punctuation
' '           Text.Whitespace
'do'          Keyword
'\n     '     Text.Whitespace
'line'        Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'`-`'         Name
'('           Punctuation
'op'          Name.Builtin
'('           Punctuation
'cond'        Name
'));'         Punctuation
'\n     '     Text.Whitespace
'if'          Keyword
' '           Text.Whitespace
'1'           Literal.Number.Integer
' '           Text.Whitespace
'<>'          Operator
' '           Text.Whitespace
'degree'      Name.Builtin
'('           Punctuation
'line'        Name
','           Operator
' '           Text.Whitespace
```

```
'x'
  Name
')'         Punctuation
' '         Text.Whitespace
'then'      Keyword
' '         Text.Whitespace
'next'      Keyword
' '         Text.Whitespace
'end'       Keyword
' '         Text.Whitespace
'if'        Keyword
';'         Punctuation
'\n     '   Text.Whitespace
'if'        Keyword
' '         Text.Whitespace
'cond'      Name
' '         Text.Whitespace
'::'        Operator
' '         Text.Whitespace
'`=`'       Name
' '         Text.Whitespace
'then'      Keyword
'\n       ' Text.Whitespace
'cond0'     Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'true'      Name
';'         Punctuation
'\n       ' Text.Whitespace
'if'        Keyword
' '         Text.Whitespace
'Testzero'  Name
'('         Punctuation
'eval'      Name.Builtin
'('         Punctuation
'line'      Name
','         Operator
' '         Text.Whitespace
'x'         Name
'='         Operator
'lhs'
      Name.Builtin
'('         Punctuation
'r'         Name
')))'       Punctuation
' '         Text.Whitespace
'then'      Keyword
```

```
'\n          ' Text.Whitespace
'x0'          Name
' '          Text.Whitespace
':='          Operator
' '          Text.Whitespace
'lhs'         Name.Builtin
'('          Punctuation
'r'          Name
');'         Punctuation
' '          Text.Whitespace
'r0'          Name
' '          Text.Whitespace
':='          Operator
' '          Text.Whitespace
'applyop'     Name
'('          Punctuation
'`+`'         Name
','          Operator
' '          Text.Whitespace
'1'           Literal.Number.Integer
','          Operator
' '          Text.Whitespace
'r'          Name
','          Operator
' '          Text.Whitespace
'1'           Literal.Number.Integer
');'         Punctuation
'\n        '  Text.Whitespace
'elif'        Keyword
' '          Text.Whitespace
'Testzero'    Name
'('          Punctuation
'eval'        Name.Builtin
'('
          Punctuation
'line'        Name
','          Operator
' '          Text.Whitespace
'x'           Name
'='           Operator
'rhs'         Name.Builtin
'('          Punctuation
'r'          Name
')))'         Punctuation
' '          Text.Whitespace
'then'        Keyword
'\n          ' Text.Whitespace
'x0'          Name
```

```
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'rhs'        Name.Builtin
'('          Punctuation
'r'          Name
');'         Punctuation
' '          Text.Whitespace
'r0'         Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'applyop'    Name
'('          Punctuation
'`-`'        Name
','          Operator
' '          Text.Whitespace
'2'          Literal.Number.Integer
','          Operator
' '          Text.Whitespace
'r'          Name
','          Operator
' '          Text.Whitespace
'1'          Literal.Number.Integer
');'         Punctuation
'\n
        '  Text.Whitespace
'else'       Keyword
' '          Text.Whitespace
'next'       Keyword
' '          Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n     '    Text.Whitespace
'else'       Keyword
'\n       '  Text.Whitespace
'test'       Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'proc'       Keyword
'('          Punctuation
'x0'         Name
','          Operator
' '          Text.Whitespace
'x1'         Name
```

```
','         Operator
' '         Text.Whitespace
'$'         Operator
')'         Punctuation
'\n         ' Text.Whitespace
'local'     Keyword
' '         Text.Whitespace
'res'       Name
';'         Punctuation
'\n         ' Text.Whitespace
'res'       Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'evalb'     Name.Builtin
'('         Punctuation
'not'       Keyword
' '
    Text.Whitespace
'op'        Name.Builtin
'('         Punctuation
'0'         Literal.Number.Integer
','         Operator
'cond'      Name
')('        Punctuation
'eval'      Name.Builtin
'('         Punctuation
'line'      Name
','         Operator
' '         Text.Whitespace
'x'         Name
'='         Operator
'x1'        Name
')'         Punctuation
','         Operator
' '         Text.Whitespace
'0'         Literal.Number.Integer
'));'       Punctuation
'\n         ' Text.Whitespace
'`if`'      Name
'('         Punctuation
'res'       Name
' '         Text.Whitespace
'in'        Keyword
' '         Text.Whitespace
'"'         Punctuation
'{'         Punctuation
'true'      Name
```

```
','          Operator
'false'      Name
'}'          Punctuation
"""          Punctuation
'\n              ' Text.Whitespace
'and'        Keyword
' '          Text.Whitespace
'evalb'      Name.Builtin
'('          Punctuation
'op'
      Name.Builtin
'('          Punctuation
'0'          Literal.Number.Integer
','          Operator
'cond'       Name
')('         Punctuation
'eval'       Name.Builtin
'('          Punctuation
'line'       Name
','          Operator
' '          Text.Whitespace
'x'          Name
'='          Operator
'x0'         Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'0'          Literal.Number.Integer
'))'         Punctuation
' '          Text.Whitespace
'='          Operator
' '          Text.Whitespace
'res'        Name
','          Operator
'\n              ' Text.Whitespace
'res'        Name
','          Operator
'\n              ' Text.Whitespace
'FAIL'       Name
')'          Punctuation
'\n        '  Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
';'          Punctuation
'\n        '  Text.Whitespace
'cond0'      Name
' '          Text.Whitespace
```

```
':='        Operator
' '
        Text.Whitespace
'test'      Name
'('         Punctuation
'lhs'       Name.Builtin
'('         Punctuation
'r'         Name
')'         Punctuation
','         Operator
' '         Text.Whitespace
'lhs'       Name.Builtin
'('         Punctuation
'r'         Name
')'         Punctuation
'+'         Operator
'1'         Literal.Number.Integer
');'        Punctuation
'\n       '  Text.Whitespace
'if'        Keyword
' '         Text.Whitespace
'cond0'     Name
' '         Text.Whitespace
'<>'        Operator
' '         Text.Whitespace
'FAIL'      Name
' '         Text.Whitespace
'then'      Keyword
'\n         ' Text.Whitespace
'x0'        Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'lhs'       Name.Builtin
'('         Punctuation
'r'         Name
');'        Punctuation
' '         Text.Whitespace
'r0'        Name
' '         Text.Whitespace
':='        Operator
' '
      Text.Whitespace
'applyop'   Name
'('         Punctuation
'`+`'       Name
','         Operator
' '         Text.Whitespace
```

```
'1'          Literal.Number.Integer
','          Operator
' '          Text.Whitespace
'r'          Name
','          Operator
' '          Text.Whitespace
'1'          Literal.Number.Integer
');'         Punctuation
'\n        '  Text.Whitespace
'else'       Keyword
'\n          ' Text.Whitespace
'cond0'      Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'test'       Name
'('          Punctuation
'rhs'        Name.Builtin
'('          Punctuation
'r'          Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'rhs'        Name.Builtin
'('          Punctuation
'r'          Name
')'          Punctuation
'-'          Operator
'1'          Literal.Number.Integer
');'         Punctuation
'\n          ' Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'cond0'
      Name
' '          Text.Whitespace
'<>'         Operator
' '          Text.Whitespace
'FAIL'       Name
' '          Text.Whitespace
'then'       Keyword
'\n            ' Text.Whitespace
'x0'         Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'rhs'        Name.Builtin
'('          Punctuation
```

```
'r'          Name
');'         Punctuation
' '          Text.Whitespace
'r0'         Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'applyop'    Name
'('          Punctuation
'`-`'        Name
','          Operator
' '          Text.Whitespace
'2'          Literal.Number.Integer
','          Operator
' '          Text.Whitespace
'r'          Name
','          Operator
' '          Text.Whitespace
'1'          Literal.Number.Integer
');'         Punctuation
'\n          ' Text.Whitespace
'else'       Keyword
' '          Text.Whitespace
'next'       Keyword
' '
          Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n       '  Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n     '    Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n     '    Text.Whitespace
'here'       Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'subs'       Name.Builtin
'('          Punctuation
'cond'       Name
```

```
' '          Text.Whitespace
'='          Operator
'          ' Text.Whitespace
'cond0'      Name
' '          Text.Whitespace
','          Operator
' '          Text.Whitespace
'body'       Name
');'         Punctuation
'\n     '    Text.Whitespace
'rest'       Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'subs'       Name.Builtin
'('          Punctuation
'cond'
       Name
' '          Text.Whitespace
'='          Operator
' '          Text.Whitespace
'evalb'      Name.Builtin
'('          Punctuation
'not'        Keyword
' '          Text.Whitespace
'cond0'      Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'body'       Name
');'         Punctuation
'\n     '    Text.Whitespace
'return'     Keyword
' '          Text.Whitespace
'make'       Name
'('          Punctuation
'eval'       Name.Builtin
'('          Punctuation
'here'       Name
','          Operator
' '          Text.Whitespace
'x'          Name
'='          Operator
'x0'         Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'do_peel'    Name
```

```
'('          Punctuation
'eval'       Name.Builtin
'('          Punctuation
'subsop'     Name.Builtin
'('          Punctuation
'1'          Literal.Number.Integer
'='          Operator
'rest'       Name
','          Operator
'
 '           Text.Whitespace
'['          Punctuation
'2'          Literal.Number.Integer
','          Operator
'2'          Literal.Number.Integer
']'          Punctuation
'='          Operator
'r0'         Name
','          Operator
' '          Text.Whitespace
'e'          Name
'))));'      Punctuation
'\n    '     Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'do'         Keyword
';'          Punctuation
'\n    '     Text.Whitespace
'return'     Keyword
' '          Text.Whitespace
'e'          Name
';'          Punctuation
'\n  '       Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
';'          Punctuation
'\n\n  '     Text.Whitespace
'# Expand sum(a*(b-c),q) to sum(a*b,q)-sum(a*c,q)\n' Comment.Single

'  '         Text.Whitespace
'split'      Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'proc'       Keyword
'('          Punctuation
'e'
```

```
 Name
','         Operator
' '         Text.Whitespace
'$'         Operator
')'         Punctuation
'\n    '    Text.Whitespace
'subsindets'  Name.Builtin
'('         Punctuation
'e'         Name
','         Operator
' '         Text.Whitespace
'''         Punctuation
'And'       Name
'('         Punctuation
'specfunc'    Name
'({'        Punctuation
'sum'       Name
','         Operator
'Sum'       Name
'})'        Punctuation
','         Operator
'\n                    ' Text.Whitespace
'anyfunc'     Name
'('         Punctuation
'And'       Name
'('         Punctuation
'`*`'       Name
','         Operator
'Not'       Name
'('         Punctuation
'`*`'       Name
'('         Punctuation
'Not'       Name
'('         Punctuation
'`+`'       Name
'))))'      Punctuation
','         Operator
'name'      Name
'='         Operator
'anything'    Name
'))'        Punctuation
'''         Punctuation
','         Operator
'\n
                ' Text.Whitespace
'do_split'    Name
');'        Punctuation
'\n  '      Text.Whitespace
```

```
'end'         Keyword
' '           Text.Whitespace
'proc'        Keyword
';'           Punctuation
'\n  '        Text.Whitespace
'do_split'    Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'proc'        Keyword
'('           Punctuation
'e'           Name
','           Operator
' '           Text.Whitespace
'$'           Operator
')'           Punctuation
'\n    '      Text.Whitespace
'local'       Keyword
' '           Text.Whitespace
'terms'       Name
','           Operator
' '           Text.Whitespace
'x'           Name
';'           Punctuation
'\n    '      Text.Whitespace
'terms'       Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'convert'     Name.Builtin
'('           Punctuation
'expand'      Name.Builtin
'('           Punctuation
'op'          Name.Builtin
'('           Punctuation
'1'
          Literal.Number.Integer
','           Operator
'e'           Name
')'           Punctuation
','           Operator
' '           Text.Whitespace
'op'          Name.Builtin
'('           Punctuation
'indets'      Name.Builtin
'('           Punctuation
'op'          Name.Builtin
'('           Punctuation
```

```
'1'          Literal.Number.Integer
','          Operator
'e'          Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'function'   Name
')))'        Punctuation
','          Operator
'\n                ' Text.Whitespace
'"'          Punctuation
'list'       Name
'"'          Punctuation
','          Operator
' '          Text.Whitespace
'`+`'        Name
');'         Punctuation
'\n    '     Text.Whitespace
'x'          Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'op'         Name.Builtin
'(['         Punctuation
'2'          Literal.Number.Integer
','          Operator
'1'
          Literal.Number.Integer
']'          Punctuation
','          Operator
'e'          Name
');'         Punctuation
'\n    '     Text.Whitespace
'`+`'        Name
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'map'        Name.Builtin
'('          Punctuation
'proc'       Keyword
'('          Punctuation
'term'       Name
','          Operator
' '          Text.Whitespace
'$'          Operator
')'          Punctuation
'\n     '    Text.Whitespace
'local'      Keyword
```

```
' '          Text.Whitespace
's'          Name
','          Operator
' '          Text.Whitespace
'r'          Name
';'          Punctuation
'\n     '    Text.Whitespace
's'          Name
','          Operator
' '          Text.Whitespace
'r'          Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'selectremove' Name.Builtin
'('          Punctuation
'depends'    Name
','          Operator
' '
  Text.Whitespace
'convert'    Name.Builtin
'('          Punctuation
'term'       Name
','          Operator
' '          Text.Whitespace
'"'          Punctuation
'list'       Name
'"'          Punctuation
','          Operator
' '          Text.Whitespace
'`*`'        Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'x'          Name
');'         Punctuation
'\n     '    Text.Whitespace
'`*`'        Name
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'r'          Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'subsop'     Name.Builtin
'('          Punctuation
'1'          Literal.Number.Integer
```

```
'='          Operator
'`*`'        Name
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
's'          Name
'))'         Punctuation
','          Operator
'e'          Name
'))'         Punctuation
'\n    '     Text.Whitespace
'end'
    Keyword
' '          Text.Whitespace
'proc'       Keyword
','          Operator
' '          Text.Whitespace
'terms'      Name
')))'        Punctuation
'\n  '       Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
';'          Punctuation
'\n\n  '     Text.Whitespace
'# Simplify f(lo-1)*product(f(i),i=lo..hi) to product(f(i),i=lo-1..hi)\n' Comment.Single

'  '         Text.Whitespace
'graft'      Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'proc'       Keyword
'('          Punctuation
'e'          Name
','          Operator
' '          Text.Whitespace
'$'          Operator
')'          Punctuation
'\n    '     Text.Whitespace
'subsindets'  Name.Builtin
'('          Punctuation
'e'          Name
','          Operator
' '          Text.Whitespace
'"'          Punctuation
'Or'         Name
'('          Punctuation
```

```
'And'        Name
'('          Punctuation
'`*`'        Name
','
          Operator
'Not'        Name
'('          Punctuation
'`*`'        Name
'('          Punctuation
'Not'        Name
'('          Punctuation
'specfunc'   Name
'({'         Punctuation
'product'    Name
','          Operator
'Product'    Name
'})))))'     Punctuation
','          Operator
'\n                    ' Text.Whitespace
'And'        Name
'('          Punctuation
'`+`'        Name
','          Operator
'Not'        Name
'('          Punctuation
'`+`'        Name
'('          Punctuation
'Not'        Name
'('          Punctuation
'specfunc'   Name
'({'         Punctuation
'sum'        Name
'   '        Text.Whitespace
','          Operator
'Sum'        Name
'   '        Text.Whitespace
'})))))'     Punctuation
"""          Punctuation
','          Operator
'\n                ' Text.Whitespace
'do_graft'   Name
');'         Punctuation
'\n  '       Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'proc'
  Keyword
';'          Punctuation
```

```
'\n  '        Text.Whitespace
'do_graft'    Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'proc'        Keyword
'('           Punctuation
'e'           Name
','           Operator
' '           Text.Whitespace
'$'           Operator
')'           Punctuation
'\n    '      Text.Whitespace
'local'       Keyword
' '           Text.Whitespace
'produce'     Name
','           Operator
' '           Text.Whitespace
'factors'     Name
','           Operator
' '           Text.Whitespace
'i'           Name
','           Operator
' '           Text.Whitespace
'j'           Name
';'           Punctuation
'\n    '      Text.Whitespace
'produce'     Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'`if`'        Name
'('           Punctuation
'e'           Name
'::'          Operator
'`*`'         Name
','           Operator
' '           Text.Whitespace
'"'           Punctuation
'{'
          Punctuation
'product'     Name
','           Operator
'Product'     Name
'}'           Punctuation
'"'           Punctuation
','           Operator
'\n                          ' Text.Whitespace
```

```
"""         Punctuation
'{'         Punctuation
'sum'       Name
'   '       Text.Whitespace
','         Operator
'Sum'       Name
'   '       Text.Whitespace
'}'         Punctuation
"""         Punctuation
');'        Punctuation
'\n   '     Text.Whitespace
'factors'   Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'sort'      Name.Builtin
'('         Punctuation
'convert'   Name.Builtin
'('         Punctuation
'e'         Name
','         Operator
"""         Punctuation
'list'      Name
"""         Punctuation
')'         Punctuation
','         Operator
'\n                 ' Text.Whitespace
'key'       Name
' '         Text.Whitespace
'='         Operator
' '         Text.Whitespace
'('
        Punctuation
'factor'    Name
' '         Text.Whitespace
'->'        Operator
' '         Text.Whitespace
'-'         Operator
'numboccur' Name.Builtin
'('         Punctuation
'factor'    Name
','         Operator
'produce'   Name
')));'      Punctuation
'\n   '     Text.Whitespace
'for'       Keyword
' '         Text.Whitespace
'i'         Name
```

```
' '          Text.Whitespace
'from'       Keyword
' '          Text.Whitespace
'nops'       Name.Builtin
'('          Punctuation
'factors'    Name
')'          Punctuation
' '          Text.Whitespace
'to'         Keyword
' '          Text.Whitespace
'2'          Literal.Number.Integer
' '          Text.Whitespace
'by'         Keyword
' '          Text.Whitespace
'-'          Operator
'1'          Literal.Number.Integer
' '          Text.Whitespace
'do'         Keyword
'\n    '     Text.Whitespace
'for'        Keyword
' '          Text.Whitespace
'j'          Name
' '
  Text.Whitespace
'from'       Keyword
' '          Text.Whitespace
'i'          Name
'-'          Operator
'1'          Literal.Number.Integer
' '          Text.Whitespace
'to'         Keyword
' '          Text.Whitespace
'1'          Literal.Number.Integer
' '          Text.Whitespace
'by'         Keyword
' '          Text.Whitespace
'-'          Operator
'1'          Literal.Number.Integer
' '          Text.Whitespace
'do'         Keyword
'\n        '  Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'j'          Name
','          Operator
'factors'    Name
```

```
')'          Punctuation
' '          Text.Whitespace
'::'         Operator
' '          Text.Whitespace
'"'          Punctuation
'And'        Name
'"'          Punctuation
'('          Punctuation
'"'          Punctuation
'specfunc'   Name
'"'          Punctuation
'('          Punctuation
'produce'    Name
')'          Punctuation
','
          Operator
'\n                          ' Text.Whitespace
'"'          Punctuation
'anyfunc'    Name
'('          Punctuation
'anything'   Name
','          Operator
'name'       Name
'='          Operator
'range'      Name
')'          Punctuation
'"'          Punctuation
')'          Punctuation
' '          Text.Whitespace
'then'       Keyword
'\n          ' Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'Testzero'   Name
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'i'          Name
','          Operator
'factors'    Name
')'          Punctuation
' '          Text.Whitespace
'-'          Operator
' '          Text.Whitespace
'eval'       Name.Builtin
'('          Punctuation
'op'         Name.Builtin
'(['         Punctuation
```

```
'j'          Name
','          Operator
'1'          Literal.Number.Integer
']'          Punctuation
','          Operator
'factors'    Name
')'
     Punctuation
','          Operator
'\n              ' Text.Whitespace
'op'         Name.Builtin
'([']        Punctuation
'j'          Name
','          Operator
'2'          Literal.Number.Integer
','          Operator
'1'          Literal.Number.Integer
']'          Punctuation
','          Operator
'factors'    Name
')'          Punctuation
'='          Operator
'op'         Name.Builtin
'([']        Punctuation
'j'          Name
','          Operator
'2'          Literal.Number.Integer
','          Operator
'2'          Literal.Number.Integer
','          Operator
'1'          Literal.Number.Integer
']'          Punctuation
','          Operator
'factors'    Name
')'          Punctuation
'-'          Operator
'1'          Literal.Number.Integer
'))'         Punctuation
' '          Text.Whitespace
'then'       Keyword
'\n            ' Text.Whitespace
'factors'    Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'subsop'
     Name.Builtin
'('          Punctuation
```

```
'i'          Name
'='          Operator
'NULL'       Name
','          Operator
'applyop'    Name
'('          Punctuation
'`-`'        Name
','          Operator
'['          Punctuation
'j'          Name
','          Operator
'2'          Literal.Number.Integer
','          Operator
'2'          Literal.Number.Integer
','          Operator
'1'          Literal.Number.Integer
']'          Punctuation
','          Operator
'factors'    Name
','          Operator
'1'          Literal.Number.Integer
'));'        Punctuation
'\n          ' Text.Whitespace
'break'      Keyword
'\n          ' Text.Whitespace
'elif'       Keyword
' '          Text.Whitespace
'Testzero'   Name
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'i'          Name
','          Operator
'factors'    Name
')'          Punctuation
' '          Text.Whitespace
'-'          Operator
' '          Text.Whitespace
'eval'
       Name.Builtin
'('          Punctuation
'op'         Name.Builtin
'(['         Punctuation
'j'          Name
','          Operator
'1'          Literal.Number.Integer
']'          Punctuation
','          Operator
```

```
'factors'     Name
')'           Punctuation
','           Operator
'\n                ' Text.Whitespace
'op'          Name.Builtin
'(['          Punctuation
'j'           Name
','           Operator
'2'           Literal.Number.Integer
','           Operator
'1'           Literal.Number.Integer
']'           Punctuation
','           Operator
'factors'     Name
')'           Punctuation
'='           Operator
'op'          Name.Builtin
'(['          Punctuation
'j'           Name
','           Operator
'2'           Literal.Number.Integer
','           Operator
'2'           Literal.Number.Integer
','           Operator
'2'           Literal.Number.Integer
']'           Punctuation
','           Operator
'factors'     Name
')'           Punctuation
'+'
           Operator
'1'           Literal.Number.Integer
'))'          Punctuation
' '           Text.Whitespace
'then'        Keyword
'\n            ' Text.Whitespace
'factors'     Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'subsop'      Name.Builtin
'('           Punctuation
'i'           Name
'='           Operator
'NULL'        Name
','           Operator
'applyop'     Name
'('           Punctuation
```

```
'`+`'        Name
','          Operator
'['          Punctuation
'j'          Name
','          Operator
'2'          Literal.Number.Integer
','          Operator
'2'          Literal.Number.Integer
','          Operator
'2'          Literal.Number.Integer
']'          Punctuation
','          Operator
'factors'    Name
','          Operator
'1'          Literal.Number.Integer
'));'        Punctuation
'\n          ' Text.Whitespace
'break'      Keyword
'\n         ' Text.Whitespace
'end'        Keyword
' '
      Text.Whitespace
'if'         Keyword
'\n       '  Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
'\n     '    Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'do'         Keyword
'\n    '     Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'do'         Keyword
';'          Punctuation
'\n    '     Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'0'          Literal.Number.Integer
','          Operator
'e'          Name
')('         Punctuation
'op'         Name.Builtin
'('          Punctuation
'factors'    Name
'))'         Punctuation
'\n  '       Text.Whitespace
```

```
'end'         Keyword
' '           Text.Whitespace
'proc'        Keyword
';'           Punctuation
'\n\n  '      Text.Whitespace
'# Normalize sum(f(i),i=2..hi) to sum(f(i+2),i=0..hi-2)\n' Comment.Single

'  '          Text.Whitespace
'rebase_lower' Name
' '           Text.Whitespace
':='          Operator
'
 '           Text.Whitespace
'proc'        Keyword
'('           Punctuation
'e'           Name
','           Operator
' '           Text.Whitespace
'$'           Operator
')'           Punctuation
'\n    '      Text.Whitespace
'subsindets'  Name.Builtin
'('           Punctuation
'e'           Name
','           Operator
' '           Text.Whitespace
"""           Punctuation
'And'         Name
'('           Punctuation
'specfunc'    Name
'({'          Punctuation
'sum'         Name
','           Operator
'Sum'         Name
','           Operator
'product'     Name
','           Operator
'Product'     Name
'})'          Punctuation
','           Operator
'\n                    ' Text.Whitespace
'anyfunc'     Name
'('           Punctuation
'anything'    Name
','           Operator
'\n                      ' Text.Whitespace
'name'        Name
'='           Operator
```

```
'Not'         Name
'({'          Punctuation
'0'           Literal.Number.Integer
','           Operator
'SymbolicInfinity'
 Name
','           Operator
'undefined'   Name
'})'          Punctuation
'..'          Operator
'anything'    Name
'))'          Punctuation
'"'           Punctuation
','           Operator
'\n                ' Text.Whitespace
'do_rebase_lower' Name
');'          Punctuation
'\n  '        Text.Whitespace
'end'         Keyword
' '           Text.Whitespace
'proc'        Keyword
';'           Punctuation
'\n  '        Text.Whitespace
'do_rebase_lower' Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'proc'        Keyword
'('           Punctuation
'e'           Name
','           Operator
' '           Text.Whitespace
'$'           Operator
')'           Punctuation
'\n    '      Text.Whitespace
'subsop'      Name.Builtin
'(['          Punctuation
'2'           Literal.Number.Integer
','           Operator
'2'           Literal.Number.Integer
','           Operator
'1'           Literal.Number.Integer
']'           Punctuation
'='
      Operator
'0'           Literal.Number.Integer
','           Operator
'\n           ' Text.Whitespace
```

```
'applyop'     Name
'('           Punctuation
'`-`'         Name
','           Operator
'\n                 ' Text.Whitespace
'['           Punctuation
'2'           Literal.Number.Integer
','           Operator
'2'           Literal.Number.Integer
','           Operator
'2'           Literal.Number.Integer
']'           Punctuation
','           Operator
'\n                 ' Text.Whitespace
'applyop'     Name
'('           Punctuation
'eval'        Name.Builtin
','           Operator
' '           Text.Whitespace
'1'           Literal.Number.Integer
','           Operator
' '           Text.Whitespace
'e'           Name
','           Operator
' '           Text.Whitespace
'op'          Name.Builtin
'(['          Punctuation
'2'           Literal.Number.Integer
','           Operator
'1'           Literal.Number.Integer
']'           Punctuation
','           Operator
'e'
      Name
')'           Punctuation
'='           Operator
'op'          Name.Builtin
'(['          Punctuation
'2'           Literal.Number.Integer
','           Operator
'1'           Literal.Number.Integer
']'           Punctuation
','           Operator
'e'           Name
')'           Punctuation
'+'           Operator
'op'          Name.Builtin
'(['          Punctuation
```

```
'2'          Literal.Number.Integer
','          Operator
'2'          Literal.Number.Integer
','          Operator
'1'          Literal.Number.Integer
']'          Punctuation
','          Operator
'e'          Name
'))'         Punctuation
','          Operator
'\n                ' Text.Whitespace
'op'         Name.Builtin
'(['         Punctuation
'2'          Literal.Number.Integer
','          Operator
'2'          Literal.Number.Integer
','          Operator
'1'          Literal.Number.Integer
']'          Punctuation
','          Operator
'e'          Name
')))'        Punctuation
'\n
  '       Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
';'          Punctuation
'\n\n  '     Text.Whitespace
'# Normalize sum(f(i),i=lo..2) to sum(f(i+2),i=lo-2..0)\n' Comment.Single

'  '         Text.Whitespace
'rebase_upper' Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'proc'       Keyword
'('          Punctuation
'e'          Name
','          Operator
' '          Text.Whitespace
'$'          Operator
')'          Punctuation
'\n    '     Text.Whitespace
'subsindets'  Name.Builtin
'('          Punctuation
'e'          Name
','          Operator
```

```
' '          Text.Whitespace
"""          Punctuation
'And'        Name
'('          Punctuation
'specfunc'   Name
'({'         Punctuation
'sum'        Name
','          Operator
'Sum'        Name
','          Operator
'product'    Name
','          Operator
'Product'    Name
'})'         Punctuation
','          Operator
'\n                    ' Text.Whitespace
'anyfunc'    Name
'('          Punctuation
'anything'   Name
','          Operator
'\n                    ' Text.Whitespace
'name'       Name
'='          Operator
'anything'   Name
'..'         Operator
'Not'        Name
'({'         Punctuation
'0'          Literal.Number.Integer
','          Operator
'SymbolicInfinity' Name
','          Operator
'undefined'  Name
'})))'       Punctuation
"""          Punctuation
','          Operator
'\n                ' Text.Whitespace
'do_rebase_upper' Name
');'         Punctuation
'\n  '       Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
';'          Punctuation
'\n  '       Text.Whitespace
'do_rebase_upper' Name
' '          Text.Whitespace
':='         Operator
```

```
' '          Text.Whitespace
'proc'       Keyword
'('          Punctuation
'e'          Name
','          Operator
' '          Text.Whitespace
'$'          Operator
')'
          Punctuation
'\n    '     Text.Whitespace
'subsop'     Name.Builtin
'(['         Punctuation
'2'          Literal.Number.Integer
','          Operator
'2'          Literal.Number.Integer
','          Operator
'2'          Literal.Number.Integer
']'          Punctuation
'='          Operator
'0'          Literal.Number.Integer
','          Operator
'\n          ' Text.Whitespace
'applyop'    Name
'('          Punctuation
'`-`'        Name
','          Operator
'\n                ' Text.Whitespace
'['          Punctuation
'2'          Literal.Number.Integer
','          Operator
'2'          Literal.Number.Integer
','          Operator
'1'          Literal.Number.Integer
']'          Punctuation
','          Operator
'\n                ' Text.Whitespace
'applyop'    Name
'('          Punctuation
'eval'       Name.Builtin
','          Operator
' '          Text.Whitespace
'1'          Literal.Number.Integer
','          Operator
' '
         Text.Whitespace
'e'          Name
','          Operator
' '          Text.Whitespace
```

```
'op'        Name.Builtin
'(['        Punctuation
'2'         Literal.Number.Integer
','         Operator
'1'         Literal.Number.Integer
']'         Punctuation
','         Operator
'e'         Name
')'         Punctuation
'='         Operator
'op'        Name.Builtin
'(['        Punctuation
'2'         Literal.Number.Integer
','         Operator
'1'         Literal.Number.Integer
']'         Punctuation
','         Operator
'e'         Name
')'         Punctuation
'+'         Operator
'op'        Name.Builtin
'(['        Punctuation
'2'         Literal.Number.Integer
','         Operator
'2'         Literal.Number.Integer
','         Operator
'2'         Literal.Number.Integer
']'         Punctuation
','         Operator
'e'         Name
'))'        Punctuation
','         Operator
'\n                 ' Text.Whitespace
'op'
        Name.Builtin
'(['        Punctuation
'2'         Literal.Number.Integer
','         Operator
'2'         Literal.Number.Integer
','         Operator
'2'         Literal.Number.Integer
']'         Punctuation
','         Operator
'e'         Name
')))'       Punctuation
'\n  '      Text.Whitespace
'end'       Keyword
' '         Text.Whitespace
```

```
'proc'        Keyword
';'           Punctuation
'\n\n  '      Text.Whitespace
'ModuleLoad'  Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'proc'        Keyword
'($)'         Punctuation
'\n    '      Text.Whitespace
'# Override csgn to work a little bit harder on piecewise and sum\n' Comment.Single

'    '        Text.Whitespace
'# (to get rid of csgn(1/2+1/2*sum(piecewise(...,1,0),...))\n' Comment.Single

'    '        Text.Whitespace
'#  produced by int on a Gaussian mixture model)\n' Comment.Single

'    '        Text.Whitespace
'unprotect'   Name
'('           Punctuation
'csgn'
        Name
');'          Punctuation
'\n    '      Text.Whitespace
'csgn'        Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'overload'    Name
'(['          Punctuation
'\n      '    Text.Whitespace
"# Handle if the csgn of a piecewise doesn't depend on which branch\n" Comment.Single

'      '      Text.Whitespace
'proc'        Keyword
'('           Punctuation
'a'           Name
' '           Text.Whitespace
'::'          Operator
' '           Text.Whitespace
'specfunc'    Name
'('           Punctuation
'piecewise'   Name.Builtin
')'           Punctuation
','           Operator
' '           Text.Whitespace
'$'           Operator
```

```
')'          Punctuation
'\n        '  Text.Whitespace
'option'      Keyword
' '          Text.Whitespace
'overload'    Name
';'          Punctuation
'\n        '  Text.Whitespace
'local'       Keyword
' '          Text.Whitespace
'r'          Name
','          Operator
' '          Text.Whitespace
'i'
          Name
';'          Punctuation
'\n        '  Text.Whitespace
'r'          Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'{'          Punctuation
'seq'        Name.Builtin
'('          Punctuation
'`if`'       Name
'('          Punctuation
'i'          Name
'::'         Operator
'even'       Name
' '          Text.Whitespace
'or'         Keyword
' '          Text.Whitespace
'i'          Name
'='          Operator
'nops'       Name.Builtin
'('          Punctuation
'a'          Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'csgn'       Name
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'i'          Name
','          Operator
'a'          Name
'))'         Punctuation
','          Operator
```

```
' '          Text.Whitespace
'NULL'       Name
')'          Punctuation
','          Operator
'\n                ' Text.Whitespace
'i'
     Name
'='          Operator
'1'          Literal.Number.Integer
'..'         Punctuation
'nops'       Name.Builtin
'('          Punctuation
'a'          Name
'))};'       Punctuation
'\n       '  Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'nops'       Name.Builtin
'('          Punctuation
'r'          Name
')'          Punctuation
'='          Operator
'1'          Literal.Number.Integer
' '          Text.Whitespace
'then'       Keyword
' '          Text.Whitespace
'return'     Keyword
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'r'          Name
')'          Punctuation
' '          Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n       '  Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'not'        Keyword
' '          Text.Whitespace
'assigned'   Name.Builtin
'(_'         Punctuation
'Envsignum0' Name
')'
         Punctuation
' '          Text.Whitespace
```

```
'then'      Keyword
'\n         ' Text.Whitespace
'r'         Name
' '         Text.Whitespace
':='        Operator
' '         Text.Whitespace
'r'         Name
' '         Text.Whitespace
'minus'     Keyword
' '         Text.Whitespace
'{'         Punctuation
'0'         Literal.Number.Integer
'};'        Punctuation
'\n         ' Text.Whitespace
'if'        Keyword
' '         Text.Whitespace
'nops'      Name.Builtin
'('         Punctuation
'r'         Name
')'         Punctuation
'='         Operator
'1'         Literal.Number.Integer
' '         Text.Whitespace
'then'      Keyword
' '         Text.Whitespace
'return'    Keyword
' '         Text.Whitespace
'op'        Name.Builtin
'('         Punctuation
'r'         Name
')'         Punctuation
' '         Text.Whitespace
'end'       Keyword
' '         Text.Whitespace
'if'        Keyword
';'         Punctuation
'\n
        '  Text.Whitespace
'end'       Keyword
' '         Text.Whitespace
'if'        Keyword
';'         Punctuation
'\n       '  Text.Whitespace
'error'     Keyword
' '         Text.Whitespace
'"invalid input: cannot csgn %1"' Literal.String
','         Operator
' '         Text.Whitespace
```

'a' Name
';' Punctuation
'\n ' Text.Whitespace
'end' Keyword
' ' Text.Whitespace
'proc' Keyword
',' Operator
'\n ' Text.Whitespace
"# Handle if the csgn of a sum doesn't depend on the bound variable\n" Comment.Single

' ' Text.Whitespace
'proc' Keyword
'(' Punctuation
'a' Name
' ' Text.Whitespace
'::' Operator
' ' Text.Whitespace
'And' Name
'(' Punctuation
'specfunc' Name
'({' Punctuation
'sum' Name
',' Operator
' ' Text.Whitespace
'Sum' Name
'})' Punctuation
','
Operator
' ' Text.Whitespace
'anyfunc' Name
'(' Punctuation
'anything' Name
',' Operator
' ' Text.Whitespace
'name' Name
'=' Operator
'range' Name
'))' Punctuation
',' Operator
' ' Text.Whitespace
'$' Operator
')' Punctuation
'\n ' Text.Whitespace
'option' Keyword
' ' Text.Whitespace
'overload' Name
';' Punctuation
'\n ' Text.Whitespace

```
'local'       Keyword
' '           Text.Whitespace
'r'           Name
';'           Punctuation
'\n        '  Text.Whitespace
'r'           Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'csgn'        Name
'('           Punctuation
'op'          Name.Builtin
'('           Punctuation
'1'           Literal.Number.Integer
','           Operator
'a'           Name
'));'         Punctuation
'\n        '  Text.Whitespace
'if'          Keyword
' '
            Text.Whitespace
'not'         Keyword
' '           Text.Whitespace
'depends'     Name
'('           Punctuation
'r'           Name
','           Operator
'op'          Name.Builtin
'(['          Punctuation
'2'           Literal.Number.Integer
','           Operator
'1'           Literal.Number.Integer
']'           Punctuation
','           Operator
'a'           Name
'))'          Punctuation
' '           Text.Whitespace
'then'        Keyword
'\n          ' Text.Whitespace
'return'      Keyword
' '           Text.Whitespace
'signum'      Name
'('           Punctuation
'op'          Name.Builtin
'(['          Punctuation
'2'           Literal.Number.Integer
','           Operator
'2'           Literal.Number.Integer
```

```
','         Operator
'2'         Literal.Number.Integer
']'         Punctuation
','         Operator
'a'         Name
')'         Punctuation
'+'         Operator
'1'         Literal.Number.Integer
'-'         Operator
'op'        Name.Builtin
'([']
        Punctuation
'2'         Literal.Number.Integer
','         Operator
'2'         Literal.Number.Integer
','         Operator
'1'         Literal.Number.Integer
']'         Punctuation
','         Operator
'a'         Name
'))'        Punctuation
' '         Text.Whitespace
'*'         Operator
' '         Text.Whitespace
'r'         Name
'\n     '   Text.Whitespace
'end'       Keyword
' '         Text.Whitespace
'if'        Keyword
';'         Punctuation
'\n     '   Text.Whitespace
'error'     Keyword
' '         Text.Whitespace
'"invalid input: cannot csgn %1"' Literal.String
','         Operator
' '         Text.Whitespace
'a'         Name
';'         Punctuation
'\n     '   Text.Whitespace
'end'       Keyword
' '         Text.Whitespace
'proc'      Keyword
','         Operator
'\n     '   Text.Whitespace
'csgn'      Name
']);'       Punctuation
'\n     '   Text.Whitespace
'protect'   Name
```

```
'('
        Punctuation
'csgn'        Name
');'          Punctuation
'\n\n    '    Text.Whitespace
'# Do the same to signum.\n' Comment.Single

'    '        Text.Whitespace
'unprotect'   Name
'('           Punctuation
'signum'      Name
');'          Punctuation
'\n    '      Text.Whitespace
'signum'      Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'overload'    Name
'(['          Punctuation
'\n      '    Text.Whitespace
"# Handle if the signum of a piecewise doesn't depend on which branch\n" Comment.Single

'      '      Text.Whitespace
'proc'        Keyword
'('           Punctuation
'a'           Name
' '           Text.Whitespace
'::'          Operator
' '           Text.Whitespace
'specfunc'    Name
'('           Punctuation
'piecewise'   Name.Builtin
')'           Punctuation
','           Operator
' '           Text.Whitespace
'$'           Operator
')'           Punctuation
'\n        '  Text.Whitespace
'option'      Keyword
' '
 Text.Whitespace
'overload'    Name
';'           Punctuation
'\n        '  Text.Whitespace
'local'       Keyword
' '           Text.Whitespace
'r'           Name
','           Operator
```

```
' '          Text.Whitespace
'i'          Name
';'          Punctuation
'\n        '  Text.Whitespace
'r'          Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'{'          Punctuation
'seq'        Name.Builtin
'('          Punctuation
'`if`'       Name
'('          Punctuation
'i'          Name
'::'         Operator
'even'       Name
' '          Text.Whitespace
'or'         Keyword
' '          Text.Whitespace
'i'          Name
'='          Operator
'nops'       Name.Builtin
'('          Punctuation
'a'          Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'signum'     Name
'('          Punctuation
'op'         Name.Builtin
'('          Punctuation
'i'          Name
','          Operator
'a'
      Name
'))'         Punctuation
','          Operator
' '          Text.Whitespace
'NULL'       Name
')'          Punctuation
','          Operator
'\n                ' Text.Whitespace
'i'          Name
'='          Operator
'1'          Literal.Number.Integer
'..'         Punctuation
'nops'       Name.Builtin
'('          Punctuation
```

```
'a'          Name
'))};'       Punctuation
'\n        '  Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'nops'       Name.Builtin
'('          Punctuation
'r'          Name
')'          Punctuation
'='          Operator
'1'          Literal.Number.Integer
' '          Text.Whitespace
'then'       Keyword
' '          Text.Whitespace
'return'     Keyword
' '          Text.Whitespace
'op'         Name.Builtin
'('          Punctuation
'r'          Name
')'          Punctuation
' '          Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n
        '  Text.Whitespace
'if'         Keyword
' '          Text.Whitespace
'not'        Keyword
' '          Text.Whitespace
'assigned'   Name.Builtin
'(_'         Punctuation
'Envsignum0'  Name
')'          Punctuation
' '          Text.Whitespace
'then'       Keyword
'\n        ' Text.Whitespace
'r'          Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'r'          Name
' '          Text.Whitespace
'minus'      Keyword
' '          Text.Whitespace
'{'          Punctuation
'0'          Literal.Number.Integer
```

```
'};'        Punctuation
'\n         ' Text.Whitespace
'if'        Keyword
' '         Text.Whitespace
'nops'      Name.Builtin
'('         Punctuation
'r'         Name
')'         Punctuation
'='         Operator
'1'         Literal.Number.Integer
' '         Text.Whitespace
'then'      Keyword
' '         Text.Whitespace
'return'    Keyword
' '         Text.Whitespace
'op'        Name.Builtin
'('
        Punctuation
'r'         Name
')'         Punctuation
' '         Text.Whitespace
'end'       Keyword
' '         Text.Whitespace
'if'        Keyword
';'         Punctuation
'\n       '  Text.Whitespace
'end'       Keyword
' '         Text.Whitespace
'if'        Keyword
';'         Punctuation
'\n       '  Text.Whitespace
'error'     Keyword
' '         Text.Whitespace
'"invalid input: cannot signum %1"' Literal.String
','         Operator
' '         Text.Whitespace
'a'         Name
';'         Punctuation
'\n     '   Text.Whitespace
'end'       Keyword
' '         Text.Whitespace
'proc'      Keyword
','         Operator
'\n     '   Text.Whitespace
"# Handle if the signum of a sum doesn't depend on the bound variable\n" Comment.Single

'     '     Text.Whitespace
'proc'      Keyword
```

```
'('          Punctuation
'a'          Name
' '          Text.Whitespace
'::'         Operator
' '          Text.Whitespace
'And'
        Name
'('          Punctuation
'specfunc'   Name
'({'         Punctuation
'sum'        Name
','          Operator
' '          Text.Whitespace
'Sum'        Name
'})'         Punctuation
','          Operator
' '          Text.Whitespace
'anyfunc'    Name
'('          Punctuation
'anything'   Name
','          Operator
' '          Text.Whitespace
'name'       Name
'='          Operator
'range'      Name
'))'         Punctuation
','          Operator
' '          Text.Whitespace
'$'          Operator
')'          Punctuation
'\n       '  Text.Whitespace
'option'     Keyword
' '          Text.Whitespace
'overload'   Name
';'          Punctuation
'\n       '  Text.Whitespace
'local'      Keyword
' '          Text.Whitespace
'r'          Name
';'          Punctuation
'\n       '  Text.Whitespace
'r'          Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'signum'     Name
'('          Punctuation
'op'
```

```
        Name.Builtin
'('         Punctuation
'1'         Literal.Number.Integer
','         Operator
'a'         Name
'));'       Punctuation
'\n       '  Text.Whitespace
'if'        Keyword
' '         Text.Whitespace
'not'       Keyword
' '         Text.Whitespace
'depends'   Name
'('         Punctuation
'r'         Name
','         Operator
'op'        Name.Builtin
'(['        Punctuation
'2'         Literal.Number.Integer
','         Operator
'1'         Literal.Number.Integer
']'         Punctuation
','         Operator
'a'         Name
'))'        Punctuation
' '         Text.Whitespace
'then'      Keyword
'\n        ' Text.Whitespace
'return'    Keyword
' '         Text.Whitespace
'signum'    Name
'('         Punctuation
'op'        Name.Builtin
'(['        Punctuation
'2'         Literal.Number.Integer
','         Operator
'2'         Literal.Number.Integer
','         Operator
'2'         Literal.Number.Integer
']'
        Punctuation
','         Operator
'a'         Name
')'         Punctuation
'+'         Operator
'1'         Literal.Number.Integer
'-'         Operator
'op'        Name.Builtin
'(['        Punctuation
```

```
'2'          Literal.Number.Integer
','          Operator
'2'          Literal.Number.Integer
','          Operator
'1'          Literal.Number.Integer
']'          Punctuation
','          Operator
'a'          Name
'))'         Punctuation
' '          Text.Whitespace
'*'          Operator
' '          Text.Whitespace
'r'          Name
'\n       '  Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
';'          Punctuation
'\n       '  Text.Whitespace
'error'      Keyword
' '          Text.Whitespace
'"invalid input: cannot signum %1"' Literal.String
','          Operator
' '          Text.Whitespace
'a'          Name
';'          Punctuation
'\n     '    Text.Whitespace
'end'        Keyword
'
 '          Text.Whitespace
'proc'       Keyword
','          Operator
'\n     '    Text.Whitespace
'signum'     Name
']);'        Punctuation
'\n   '      Text.Whitespace
'protect'    Name
'('          Punctuation
'signum'     Name
');'         Punctuation
'\n\n   '    Text.Whitespace
'# Override sum to fail faster\n' Comment.Single

'   '        Text.Whitespace
'unprotect'  Name
'('          Punctuation
'sum'        Name
');'         Punctuation
```

```
'\n    '      Text.Whitespace
'sum'         Name
' '           Text.Whitespace
':='          Operator
' '           Text.Whitespace
'overload'    Name
'(['          Punctuation
'\n      '    Text.Whitespace
'proc'        Keyword
'('           Punctuation
'f'           Name
' '           Text.Whitespace
'::'          Operator
' '           Text.Whitespace
'Not'         Name
'({'          Punctuation
'`+`'         Name
','           Operator
'`+`'         Name
'^'           Operator
'integer'     Name
'})'          Punctuation
','
           Operator
'\n           ' Text.Whitespace
'k'           Name
' '           Text.Whitespace
'::'          Operator
' '           Text.Whitespace
'name'        Name
'='           Operator
'And'         Name
'('           Punctuation
'range'       Name
','           Operator
'Not'         Name
'('           Punctuation
'range'       Name
'('           Punctuation
'rational'    Name
')))'         Punctuation
','           Operator
' '           Text.Whitespace
'$'           Operator
')'           Punctuation
'\n        '  Text.Whitespace
'option'      Keyword
' '           Text.Whitespace
```

```
'overload'    Name
';'           Punctuation
'\n        '  Text.Whitespace
'if'          Keyword
' '           Text.Whitespace
'not'         Keyword
' '           Text.Whitespace
'('           Punctuation
'`-`'         Name
'('           Punctuation
'op'          Name.Builtin
'('           Punctuation
'rhs'         Name.Builtin
'('           Punctuation
'k'           Name
')))'
 Punctuation
' '           Text.Whitespace
'::'          Operator
' '           Text.Whitespace
'"'           Punctuation
'rational'    Name
'"'           Punctuation
')'           Punctuation
'\n           ' Text.Whitespace
'and'         Keyword
' '           Text.Whitespace
'not'         Keyword
' '           Text.Whitespace
'('           Punctuation
'subsindets'  Name.Builtin
'('           Punctuation
'f'           Name
','           Operator
' '           Text.Whitespace
'"'           Punctuation
'anything'    Name
'^'           Operator
'integer'     Name
'"'           Punctuation
','           Operator
' '           Text.Whitespace
'f'           Name
'->'          Operator
'op'          Name.Builtin
'('           Punctuation
'1'           Literal.Number.Integer
','           Operator
```

```
'f'          Name
'))'         Punctuation
'\n                  ' Text.Whitespace
'::'         Operator
' '          Text.Whitespace
"""          Punctuation
'{'          Punctuation
'`+`'
     Name
','          Operator
'And'        Name
'('          Punctuation
'`*`'        Name
','          Operator
'Not'        Name
'('          Punctuation
'`*`'        Name
'('          Punctuation
'Not'        Name
'('          Punctuation
'`+`'        Name
'))))}'      Punctuation
"""          Punctuation
')'          Punctuation
'\n          ' Text.Whitespace
'and'        Keyword
' '          Text.Whitespace
'depends'    Name
'('          Punctuation
'indets'     Name.Builtin
'('          Punctuation
'f'          Name
','          Operator
' '          Text.Whitespace
"""          Punctuation
'{'          Punctuation
'specfunc'   Name
'('          Punctuation
'idx'        Name
')'          Punctuation
','          Operator
' '          Text.Whitespace
'specindex'  Name
'('          Punctuation
'idx'        Name
')}'         Punctuation
"""          Punctuation
')'          Punctuation
```

```
','          Operator
' '          Text.Whitespace
'op'
          Name.Builtin
'('          Punctuation
'1'          Literal.Number.Integer
','          Operator
'k'          Name
'))'         Punctuation
'\n       '  Text.Whitespace
'then'       Keyword
'\n          ' Text.Whitespace
'"'          Punctuation
'procname'   Name
'(_'         Punctuation
'passed'     Name
')'          Punctuation
'"'          Punctuation
'\n       '  Text.Whitespace
'else'       Keyword
'\n          ' Text.Whitespace
'error'      Keyword
' '          Text.Whitespace
'"invalid input: cannot fast-fail sum(%1, %2)"' Literal.String
','          Operator
' '          Text.Whitespace
'_passed'    Name
'\n       '  Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'if'         Keyword
'\n      '   Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
','          Operator
'\n      '   Text.Whitespace
'sum'        Name
']);'        Punctuation
'\n    '     Text.Whitespace
'protect'    Name
'('
          Punctuation
'sum'        Name
');'         Punctuation
'\n\n    '   Text.Whitespace
':'          Operator
'-'          Operator
```

```
'`print/Ints`' Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'curry'      Name
'('          Punctuation
'thismodule'  Name
':'          Operator
'-'          Operator
'Print'      Name
','          Operator
'Ints'       Name
');'         Punctuation
'\n    '     Text.Whitespace
':'          Operator
'-'          Operator
'`print/Sums`' Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'curry'      Name
'('          Punctuation
'thismodule'  Name
':'          Operator
'-'          Operator
'Print'      Name
','          Operator
'Sums'       Name
');'         Punctuation
'\n    '     Text.Whitespace
':'          Operator
'-'          Operator
'`print/ints`' Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'curry'
      Name
'('          Punctuation
'thismodule'  Name
':'          Operator
'-'          Operator
'Print'      Name
','          Operator
'ints'       Name
');'         Punctuation
'\n    '     Text.Whitespace
':'          Operator
```

```
'-'          Operator
'`print/sums`' Name
' '          Text.Whitespace
':='         Operator
' '          Text.Whitespace
'curry'      Name
'('          Punctuation
'thismodule'  Name
':'          Operator
'-'          Operator
'Print'      Name
','          Operator
'sums'       Name
');'         Punctuation
'\n\n  '     Text.Whitespace
'end'        Keyword
' '          Text.Whitespace
'proc'       Keyword
';'          Punctuation
'\n  '       Text.Whitespace
'ModuleLoad'  Name
'()'         Punctuation
':'          Operator
'\n'         Text.Whitespace

'end'        Keyword
' '          Text.Whitespace
'module'     Keyword
';'          Punctuation
' '          Text.Whitespace
'# Loop\n'    Comment.Single
```

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1.3704 structured-merge-diff 4.2.1

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1.3710 asn1-ber 1.5.4

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1.3711 console 1.0.3

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1.3712 jsonreference 0.20.0

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1.3713 sqlexp 0.1.0

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1.3714 go-metro 0.0.0-20180109044635-280f6062b5bc

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1.3715 go-internal 1.10.0

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1.3716 otel-metric 1.16.0

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1.3717 kubernetes-utils 0.0.0-20230220204549-a5ecb0141aa5

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1.3721 otel-trace 1.16.0

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```

(By Douglas Crockford <douglas@crockford.com>)

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*/
```

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```
// ISO C9x  compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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1.3729 bbolt 1.3.6

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1.3730 contrib-instrumentation-net-http-otelhttp 0.46.1

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1.3736 x-xerrors 0.0.0-20231012003039-104605ab7028

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1.3737 jsonreference 0.21.0

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1.3738 go-internal 1.12.0

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1.3739 x-term 0.16.0

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1.3740 go-compute-metadata 0.3.0

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.32.0
//  protoc        v4.25.2
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
```

```
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}
```

```
func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
```

```
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
```

```
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
```

```
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
```

0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
0x0b, 0x67,
0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
0x64,
0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,

```
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []interface{}{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init()
 }
func file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
```

```
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v interface{}, i int)
interface{} {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []interface{}{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:          file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes:
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:         file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
```

```
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.DeleteLicenseRequest{
 //
TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
}
op, err := c.Delete(ctx, req)
if err != nil {
 // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
 // TODO: Handle error.
}
}

func ExampleLicensesClient_Get() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
}
resp,
err := c.Get(ctx, req)
if err != nil {
 // TODO: Handle error.
```

```
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
```

```
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*computepb.LicensesListResponse)
 }
}
```

```
func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
```

```
 }
 // TODO: Use resp.
 _ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
```

```
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
```

```
 _ = resp
}
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package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
```

```
 Get              []gax.CallOption
 GetIamPolicy       []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy       []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
[]gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
```

```
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  SetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000
 * time.Millisecond),
  },
 }
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.
```

```
// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
```

```
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}
```

```
// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
```

```
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{"x-goog-api-client", gax.XGoogHeader(kv...)}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close();
 err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v",
 "project", url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
```

```
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if
err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

```
// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds
 = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }
```

```
  if err := unm.Unmarshal(buf, resp); err != nil {
   return
 err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
```

```
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf,
err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
```

```
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.RequestId != nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery
= params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if
err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }
```

```
 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest,
 opts ...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
```

```
 }
 if req != nil && req.MaxResults != nil {
  params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
 }
 if
req != nil && req.OrderBy != nil {
  params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req != nil && req.PageToken != nil {
  params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err
= googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
```

```
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud
 Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
```

```
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
```

```
// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource
 is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx,
 hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()
```

```
 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return
nil, e
 }
return resp, nil
}
```

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1.3749 otel-trace 1.21.0

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1.3755 genproto-googleapis-rpc 0.0.0-20240823204242-4ba0660f739c

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1.3756 go-json 0.10.3

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1.3757 blackmagic 1.0.2

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1.3758 httpcc 1.0.1

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1.3760 option 1.0.1

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1.3761 etcd-client-pkg 3.5.16

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1.3763 defusedxml 0.7.1

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1.3764 regexp 0.0.0-20221122212121-6b5c0a4cb7fd

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1.3765 xds-go 0.0.0-20231109132714-523115ebc101

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1.3766 koanf-providers-confmap 0.1.0

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1.3767 asm 1.2.0

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```

```
*/

Found in path(s):
* /opt/cola/permits/2308901920_1736189294.966043/0/asm-1-0-2-sources-zip/net/minidev/asm/Accessor.java
* /opt/cola/permits/2308901920_1736189294.966043/0/asm-1-0-2-sources-zip/net/minidev/asm/ASMUtil.java
* /opt/cola/permits/2308901920_1736189294.966043/0/asm-1-0-2-sources-zip/net/minidev/asm/BeansAccess.java
*
 /opt/cola/permits/2308901920_1736189294.966043/0/asm-1-0-2-sources-
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```

1.3768 google-cloud-go-iam 1.1.6

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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
```

```
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
```

```
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
```

```
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.InsertLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
}
op, err := c.Insert(ctx, req)
if err != nil {
 // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
 // TODO: Handle error.
}
}

func ExampleLicensesClient_List() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template
only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.ListLicensesRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
 resp, err := it.Next()
 if err == iterator.Done {
  break
 }
 if err != nil {
```

```
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range
 values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
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 // - It may require correct/in-range values for request initialization.
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 in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
```

```
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.32.0
//  protoc        v4.23.2
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)
```

```
// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
```

```
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}
```

```
func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
```

```
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
```

```
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
```

0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52, 0x0b, 0x67,
0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01, 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01, 0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05, 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59, 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a, 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a, 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45, 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f, 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12, 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64,
0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,

```
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []interface{}{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init()
 }
func file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
```

```
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v interface{}, i int)
interface{} {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []interface{}{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:           file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes:
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:         file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
// Copyright 2024 Google LLC
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
```

```
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
// Copyright 2024 Google LLC
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//     https://www.apache.org/licenses/LICENSE-2.0
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```

```
// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
```

```
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 GetIamPolicy:
[]gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 Insert: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 List: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 SetIamPolicy: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 TestIamPermissions: []gax.CallOption{
  gax.WithTimeout(600000
* time.Millisecond),
 },
 }
}
```

```
// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
```

```
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
```

```
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
```

```
 httpClient:  httpClient,
 CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{"x-goog-api-client", gax.XGoogHeader(kv...)}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close();
 err != nil {
  return err
 }
```

```
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v",
 "project", url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers
```

```
 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if
err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}
```

```
hds
= append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.License{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return
err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
```

Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
```

```
  return err
 }

 buf,
err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery
 = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}
```

```
hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if
err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
```

```
  },
 }
 return op, nil
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest,
 opts ...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
  }
  if req != nil && req.MaxResults != nil {
   params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
  }
  if
 req != nil && req.OrderBy != nil {
   params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
  }
  if req != nil && req.PageToken != nil {
   params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
  }
  if req != nil && req.ReturnPartialSuccess != nil {
   params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
  }
```

```
 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err
= googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
```

```
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud
 Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
```

```
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource
 is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
```

```
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx,
 hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }
```

```
 return nil
}, opts...)
if e != nil {
 return
nil, e
}
return resp, nil
}
```

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1.3769 xml-rpc 0.0.0-20220921171641-a4b6fa1dd06b

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1.3770 cgroups 3.0.2

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1.3771 fastjson 1.6.4

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1.3773 google-cloud-go-longrunning 0.5.5

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```
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
```

```
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
```

```
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
```

```
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.InsertLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
}
op, err := c.Insert(ctx, req)
if err != nil {
 // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
 // TODO: Handle error.
}
}

func ExampleLicensesClient_List() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template
only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.ListLicensesRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
 resp, err := it.Next()
 if err == iterator.Done {
  break
 }
 if err != nil {
```

```
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range
 values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown
 in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
```

```
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.32.0
//  protoc        v4.23.2
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)
```

```
// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
```

```
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}
```

```
func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
```

```
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
```

```
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
```

0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52, 0x0b, 0x67,
0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01, 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01, 0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05, 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59, 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a, 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a, 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45, 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f, 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12, 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64,
0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,

```
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []interface{}{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init()
 }
func file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
```

```
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v interface{}, i int)
interface{} {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []interface{}{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:           file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes:
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:         file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
```

```
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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```

```
// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
```

```
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 GetIamPolicy:
[]gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 Insert: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 List: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 SetIamPolicy: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 TestIamPermissions: []gax.CallOption{
  gax.WithTimeout(600000
* time.Millisecond),
 },
 }
}
```

```
// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
```

```
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
```

```
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
```

```
 httpClient:  httpClient,
 CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{"x-goog-api-client", gax.XGoogHeader(kv...)}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close();
 err != nil {
  return err
 }
```

```
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v",
 "project", url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers
```

```
 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if
err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}
```

```
hds
= append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.License{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return
err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
```

Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
```

```
  return err
 }

 buf,
err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery
 = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}
```

```
hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if
err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
```

```
  },
 }
 return op, nil
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest,
 opts ...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
  }
  if req != nil && req.MaxResults != nil {
   params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
  }
  if
 req != nil && req.OrderBy != nil {
   params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
  }
  if req != nil && req.PageToken != nil {
   params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
  }
  if req != nil && req.ReturnPartialSuccess != nil {
   params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
  }
```

```
 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err
= googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
```

```
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud
 Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
```

```
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource
 is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
```

```
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx,
 hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }
```

```
 return nil
}, opts...)
if e != nil {
 return
nil, e
}
return resp, nil
}
```

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1.3774 google-cloud-go-logging 1.9.0

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```
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
```

```
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
```

```
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  SetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000
 * time.Millisecond),
  },
 }
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
```

```
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
```

for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

```
 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
```

```
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{"x-goog-api-client", gax.XGoogHeader(kv...)}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns
 nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }
```

```
baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

hds = append(c.xGoogHeaders, hds...)
hds
= append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil
{
 return nil, e
```

```
 }
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx,
 hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()
```

```
  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for
 a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds
 = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
```

```
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return
 nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
```

```
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v",
 "project", url.QueryEscape(req.GetProject()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()
```

```
 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return
err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm
 := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
```

```
 req.MaxResults = proto.Uint32(uint32(pageSize))
}
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, "", err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.Filter != nil {
 params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
}
if req != nil && req.MaxResults != nil {
 params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
 params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req !=
nil && req.PageToken != nil {
 params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
 params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
```

```
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return
err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption)
 (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
```

```
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e
 := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }
```

```
  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx
 context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
```

```
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.
```

```
package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get                 []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
 return &LicenseCodesCallOptions{
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
```

```
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient
 interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient)
 Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
```

```
 return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption) (*computepb.LicenseCode,
 error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions
}

// NewLicenseCodesRESTClient
 creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicenseCodesRESTCallOptions()
```

```
 c := &licenseCodesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{"x-goog-api-client", gax.XGoogHeader(kv...)}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return a specified license code. License codes are
 mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for
use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
```

```
...gax.CallOption) (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm
 := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }
```

```
  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners
 who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
```

```
 return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
}

buf, err := io.ReadAll(httpRsp.Body)
if err != nil {
 return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
 return err
}

return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}
```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (

```
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
```

```
 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
```

```
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
```

```
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
 }
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range
 values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

```
func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown
 in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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//     https://www.apache.org/licenses/LICENSE-2.0
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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
```

```
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
```

```
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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//     http://www.apache.org/licenses/LICENSE-2.0
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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.31.0
//  protoc        v4.23.2
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"
```

```
 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
```

```
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
```

```
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
```

```
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //     tunedModels/{tuned_model}/permissions/{permission}
 //     corpora/{corpus}/permissions/{permission}
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
```

```
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
```

0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
0x19, 0x67, 0x6f,
0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
0x0b, 0x67,
0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,

```
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
 0x64,
 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
 0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []interface{}{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
```

```
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init()
 }
func file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v interface{}, i int)
interface{} {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []interface{}{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:           file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes:
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:         file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
```

}

1.3775 image-spec 1.1.0-rc5

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1.3778 grpc-opentracing 0.0.0-20180507213350-8e809c8a8645

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1.3779 line-protocol 2.2.1

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1.3780 kubernetes-utils 0.0.0-20240102154912-e7106e64919e

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1.3781 protobuf-go 1.28.1

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1.3782 go-securesystemslib 0.4.0

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1.3783 strcase 0.3.0

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1.3784 ebpf 0.9.1

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1.3785 govultr 2.17.2

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1.3786 ristretto 0.1.1

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1.3787 smithy-go 1.19.0

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1.3788 aws-sdk-go-v2-internal-configsources 1.2.10

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```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil,
 err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
```

```
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err !=
 nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
```

```
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack);
err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addDisableHTTPSMiddleware(stack,
```

```
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
```

AWS SDK for Go

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```
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
```

```
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
      uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
```

```
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
```

```
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return
err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckInLicense",
 }
}
{
  "smithy": "2.0",
  "shapes": {
     "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
        "type": "integer"
     },
     "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
        "type": "long"
     },
     "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
        "type": "structure",
        "members": {
           "Name": {
              "target": "smithy.api#String",
              "traits": {
                 "smithy.api#documentation": "<p>The type of name to filter by.</p>"
              }
           },
           "Values": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
              "traits": {
                 "smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
              }
           },
           "Operator": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
               "traits": {
                 "smithy.api#documentation": "<p>An operator for filtering results.</p>"
              }
```

```
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A filter object that is used to return more specific results from a describe
operation.\n      Filters can be used to match a set of resources by specific criteria.</p>"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
        },
        "output": {

          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the Linux subscriptions service settings.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/GetServiceSettings"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest":
{
        "type": "structure",
        "members": {}
    },
```

"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " Lists the settings defined for Linux subscriptions discovery. The settings include if\n Organizations integration has been enabled, and
which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays
the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
"type": "structure",
"members": {
"AmiId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The AMI ID used to launch the instance. "
}

```
            },
            "InstanceID": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The instance ID of the resource.</p>"
                }
            },
            "InstanceType": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The instance type of the resource.</p>"
                }

        },
            "AccountID": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The account ID which owns the instance.</p>"
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status of the instance.</p>"
                }
            },
            "Region": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Region the instance is running in.</p>"
                }
            },
            "UsageOperation": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The usage operation of the instance. For more information, see For
 more information, see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-
subscriptions-usage-operation.html\">Usage\n        operation values</a> in the <i>License Manager User
Guide</i>.</p>"
                }
            },
            "ProductCode": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
                "traits": {
                    "smithy.api#documentation": "<p>The product code for the instance. For more information, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-
operation.html\">Usage\n        operation values</a> in the <i>License Manager User Guide</i> .</p>"
                }
```

```
            },
            "LastUpdatedTime": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The time in which the last discovery
 updated the instance details.</p>"
                }
            },
            "SubscriptionName": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the subscription being used by the instance.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details discovered information about a running instance using Linux
subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
             }
        },
        "traits": {
            "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
            "smithy.api#error": "server"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
        "type": "service",
        "version": "2018-05-10",
        "operations": [
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                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
            },
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            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
            }
        ],

    "traits": {
            "aws.api#service": {
                "sdkId": "License Manager Linux Subscriptions",
                "arnNamespace": "license-manager-linux-subscriptions",
                "cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
            },
            "aws.auth#sigv4": {
                "name": "license-manager-linux-subscriptions"
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            "aws.protocols#restJson1": {},
            "smithy.api#cors": {
                "additionalAllowedHeaders": [
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                    "content-type",
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                    "x-amz-user-agent",
                    "x-amzn-platform-id",
                    "x-amzn-trace-id",
                    "content-length",
                    "x-api-key",
                    "authorization",
                    "x-amz-date",

  "x-amz-security-token",
                    "Access-Control-Allow-Headers",
                    "Access-Control-Allow-Methods",
                    "Access-Control-Allow-Origin"
                ],
                "additionalExposedHeaders": [
                    "x-amzn-errortype",
                    "x-amzn-requestid",
                    "x-amzn-trace-id"
                ]
            },
            "smithy.api#documentation": "<p>With License Manager, you can discover and track your commercial
Linux subscriptions on running\n      Amazon EC2 instances.</p>",
            "smithy.api#title": "AWS License Manager Linux Subscriptions",
            "smithy.rules#endpointRuleSet": {
                "version": "1.0",
                "parameters": {
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"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The
AWS region used to dispatch the request.",
"type": "String"
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"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
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"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

"type": "Boolean"
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"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
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"fn": "isSet",
"argv": [
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"ref": "Endpoint"
}
]
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"type": "tree",
"rules": [
{

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"conditions": [
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            "argv": [
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                    "ref": "UseFIPS"
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    "type": "error"
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    "rules": [
        {

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                    ]
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            "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
            "type": "error"
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            "conditions": [],

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                    "ref": "Endpoint"
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            "type": "endpoint"
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```

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"assign": "PartitionResult"
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                                                "ref": "PartitionResult"
                                            },
                                            "supportsFIPS"
                                        ]

}
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"properties": {},
"headers": {}
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"type": "endpoint"
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"error": "FIPS and DualStack are enabled, but this partition does not support one or both",
"type": "error"
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"ref": "UseFIPS"
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                                "type": "error"
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                                        "argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },
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                                        ]
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                                "conditions": [],
                                "type": "tree",
                                "rules": [
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                                        "conditions": [],

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subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
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                                            "headers": {}
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                            "type": "error"
                        }
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                    "type": "tree",
                    "rules": [
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"https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                                "properties": {},
                                "headers": {}
                            },
                            "type": "endpoint"
                        }
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    "error": "Invalid Configuration: Missing Region",
    "type": "error"
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"smithy.rules#endpointTests": {
    "testCases": [
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            "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
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```
            }
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        "params": {
            "Region": "us-east-1",
            "UseFIPS": true,
            "UseDualStack": true
        }
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    {
        "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
        "expect": {

"endpoint": {
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            }
        },
        "params": {
            "Region": "us-east-1",
            "UseFIPS": true,
            "UseDualStack": false
        }
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        "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
            }
        },
        "params": {
            "Region": "us-east-1",
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        "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
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            }
        },
        "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
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          "expect": {
            "endpoint": {

          "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
            }
          },
          "params": {
            "Region": "cn-north-1",
            "UseFIPS": true,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
            }
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          "params": {
            "Region": "cn-north-1",
            "UseFIPS": true,
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        },
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          "expect": {
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
            }
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          "params": {
            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": true
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          "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint":
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              "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
            }
          },
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"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
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{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
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"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
}
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{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
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"expect": {
"endpoint":
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"url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
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"params": {
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"UseFIPS": false,
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"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",

"expect": {
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"params": {
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"UseDualStack": false
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"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
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"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect": {
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"url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
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"params": {
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"UseFIPS": false,
"UseDualStack": true
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"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
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"url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
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"params": {
"Region": "us-iso-east-1",
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"UseDualStack": false
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
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"params": {

"Region": "us-isob-east-1",
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
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"url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
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"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}
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{
"documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
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"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
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              "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
              "expect": {
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                  "url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
                }
              },
              "params": {
                "Region": "us-isob-east-1",

        "UseFIPS": false,
                "UseDualStack": false
              }
            },
            {
              "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://example.com"
                }
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",

          "expect": {
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                }
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              "params": {
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "For custom endpoint with fips enabled and dualstack disabled",
              "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
```

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                },
                "params": {
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                    "UseFIPS": true,
                    "UseDualStack": false,

        "Endpoint": "https://example.com"
                }
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                "documentation": "For custom endpoint with fips disabled and dualstack enabled",
                "expect": {
                    "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
                },
                "params": {
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                    "UseFIPS": false,
                    "UseDualStack": true,
                    "Endpoint": "https://example.com"
                }
            },
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                "documentation": "Missing region",
                "expect": {
                    "error": "Invalid Configuration: Missing Region"
                }

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          ],
          "version": "1.0"
        }
    }
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"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "name": "Enabled",
                "value": "Enabled",
                "documentation": "Enabled LinuxSubscriptionsDiscovery"
            },
            {
                "name": "Disabled",
                "value": "Disabled",
                "documentation": "Disabled LinuxSubscriptionsDiscovery"
            }
        ]
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        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
        "type": "structure",
        "members": {
            "SourceRegions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                 "traits": {
                    "smithy.api#documentation": "<p>The Regions in which to discover data for Linux
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "OrganizationIntegration": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
                "traits": {
                    "smithy.api#documentation": "<p>Details if you have enabled resource discovery across your
accounts in Organizations.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Lists the settings defined for discovering Linux subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
        "type":
 "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the running Amazon EC2 instances that were discovered with
```

commercial Linux\n subscriptions. ",
"smithy.api#http": {

"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptionInstances"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Instances"
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n match, or don't match a certain Amazon Machine Image (AMI) ID. \n The valid names for this filter are: \n \n \n \n <code>AmiID</code>\n \n \n \n \n <code>InstanceID</code>\n \n \n \n \n <code>AccountID</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Region</code>\n \n \n \n \n <code>UsageOperation</code>\n \n \n \n \n <code>ProductCode</code>\n \n \n \n \n <code>InstanceType</code>\n \n \n \n The valid Operators for this filter are: \n \n \n \n <code>contains</code>\n \n \n \n \n <code>equals</code>\n \n \n \n \n <code>Notequal</code>\n \n \n "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "

}
},
"NextToken": {
"target": "smithy.api#String",

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            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>",
                "smithy.api#length": {
                    "min": 1,
                    "max": 16384
                }
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
    }
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"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
    "type": "structure",
    "members": {
        "Instances": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
            "traits": {
                "smithy.api#documentation":
 "<p>An array that contains instance objects.</p>"
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
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    "input": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
         },
        {
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"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions that have been discovered. If you have linked your\n organization, the returned results will include data aggregated across your accounts in\n Organizations. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptions"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Subscriptions"
}

}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>Subscription</code> with an optional operator to see subscriptions that match,\n partially match, or don't match a certain subscription's name. \n The valid names for this filter are: \n \n \n \n <code>Subscription</code>\n \n \n \n The valid Operators for this filter are: \n \n \n \n <code>contains</code>\n \n \n \n \n <code>equals</code>\n \n \n \n \n <code>Notequal</code>\n \n \n "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. ",
"smithy.api#length": {

"min": 1,
"max": 16384
}
}
}
},
"traits": {
"smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
"type": "structure",
"members": {
"Subscriptions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
"traits": {
"smithy.api#documentation": " An array that contains subscription objects. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "EQUAL",
"value": "Equal",
"documentation": "Equal operator"
},
{
"name": "NOT_EQUAL",
"value": "NotEqual",
"documentation": "Not equal operator"
},
{
"name": "CONTAINS",

```
                "value": "Contains",
                "documentation": "Contains operator"
            }
        ],
        "smithy.api#length": {
            "min": 1,
            "max": 20
        }
    }
},

"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "name": "Enabled",
                "value": "Enabled",
                "documentation": "Enabled OrganizationIntegration"
            },
            {
                "name": "Disabled",
                "value": "Disabled",
                "documentation": "Disabled OrganizationIntegration"
            }
        ]
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
    "type": "list",
    "member": {
        "target": "smithy.api#String"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [

{
                "name": "InProgress",
                "value": "InProgress",
                "documentation": "InProgress status"
            },
            {
                "name": "Completed",
                "value": "Completed",
                "documentation": "Completed status"
```

```
            },
            {
                "name": "Successful",
                "value": "Successful",
                "documentation": "Successful status"
            },
            {
                "name": "Failed",
                "value": "Failed",
                "documentation": "Failed status"
            }
        ]
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
    "type": "list",
    "member": {
        "target": "smithy.api#String",
        "traits":
{
            "smithy.api#length": {
                "min": 1,
                "max": 100
            }
        }
    },
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 100
        },
        "smithy.api#uniqueItems": {}
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
    "type": "map",
    "key": {
        "target": "smithy.api#String"
    },
    "value": {
        "target": "smithy.api#String"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "smithy.api#String",
```

"traits": {
"smithy.api#documentation": " The name of the subscription. "

}
},
"Type": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own\n Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the\n Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS. "
}
},
"InstanceCount": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
"traits": {
"smithy.api#documentation": " The total amount of running instances using this subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " An object which details a discovered Linux subscription. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request was denied due to request throttling. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"

```
        },

    "output": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates the service settings for Linux subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/UpdateServiceSettings"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest":
{
        "type": "structure",
        "members": {
            "LinuxSubscriptionsDiscovery": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
                "traits": {
                    "smithy.api#documentation": "<p>Describes if the discovery of Linux subscriptions is enabled.</p>",
                    "smithy.api#required": {}
                }
            },
            "LinuxSubscriptionsDiscoverySettings": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
                "traits": {
                    "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The
settings include if Organizations\n      integration has been enabled, and which Regions data will be aggregated
from.</p>",

  "smithy.api#required": {}
                }
            },
            "AllowUpdate": {
```

"target": "smithy.api#Boolean",
"traits": {
"smithy.api#documentation": " Describes if updates are allowed to the service settings for Linux subscriptions. If you\n allow updates, you can aggregate Linux subscription data in more than one home Region. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},

"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation":
" A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays the aggregated data for Linux\n subscriptions. "
}
}

```
            }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
            "type": "structure",
            "members": {
                "message": {
                    "target": "smithy.api#String"
                }
            },
            "traits": {
                "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
                "smithy.api#error": "client"
            }
        }
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - Beneficiary
 //   - ProductSKU
 //   - Fingerprint
 //
   - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
```

```
if
err := addProtocolFinalizerMiddlewares(stack, options, "ListLicenses"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
```

```
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
     ServiceID,
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 //
 This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
```

```
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack,
options, "DisassociateLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
```

```
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
```

```
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource
 Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
```

```
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil
{
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier
 that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
```

```
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
```

```
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
if err != nil {
 return
err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return
err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
```

```
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide
 to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement
```

```
 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity
 *types.DatetimeRange

 // Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string
```

```
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
  return fmt.Errorf("add
 protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName:
 "CreateLicense",
 }
```

```
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {
```

```
 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return
 err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack);
 err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
```

```
  OperationName: "GetLicense",
 }
}
```

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```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
```

```
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
   - ProductSKU
 //   - Status
 //   - Fingerprint
 //   - IssuerName
 //   - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
```

```
 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
 middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
```

```
 err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
 }
}
```

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```
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
        "smithy.api#error": "client"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
      "type": "structure",
      "members": {
        "DirectoryId": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation":
"<p>Details about an Active Directory identity provider.</p>"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
      "type": "operation",
      "input": {
```

"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Associates the user to an EC2 instance to utilize user-based subscriptions. \n <note>\n Your estimated bill for charges on the number of users and related costs will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more information, see Viewing your\n monthly charges in the Amazon Web Services Billing User Guide. \n </note>",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/AssociateUser"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",

"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the
EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " The identity provider of the user. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
"type": "integer"
},
"com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"

```
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request couldn't be completed because it conflicted with the current
state of the\n      resource.</p>",
            "smithy.api#error": "server"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider":
 {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deregisters the identity provider from providing user-based
subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/DeregisterIdentityProvider"
            },
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"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation":
" Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{

"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Disassociates the user from an EC2 instance providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/DisassociateUser"
},
"smithy.api#idempotent": {}
}

},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},

"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation":
" An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
}
},

"com.amazonaws.licensemanagerusersubscriptions#Filter": {
"type": "structure",
"members": {
"Attribute": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of an attribute to use as a filter. "
}
},
"Operation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of search (For example, eq, geq, leq) "
}
},
"Value": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Value of the filter. "

```
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A filter name and value pair that is used
 to return more specific results from a describe\n      operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n      attributes, or IDs.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#FilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
        "type": "union",
        "members": {
            "ActiveDirectoryIdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that details an Active Directory identity provider.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
 "<p>Details about an identity provider.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Settings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
                "traits": {
                    "smithy.api#documentation": "<p>An object that details the registered identity providers product
related configuration\n      settings such as the subnets to provision VPC endpoints.</p>",
                    "smithy.api#required":
 {}
                }
```

```
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status of an identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "FailureMessage": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The failure message associated with an identity provider.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
 "<p>Describes an identity provider.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status
```

of an EC2 instance resource. ",
"smithy.api#required": {}
}
},
"Products": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
"traits": {
"smithy.api#documentation": " A list of provided user-based subscription products. ",
"smithy.api#required": {}
}
},
"LastStatusCheckDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date of the last status check. "
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for an EC2 instance. "
}

}
},
"traits": {
"smithy.api#documentation": " Describes an EC2 instance providing user-based subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits":

{
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a user associated with an EC2 instance. ",
"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for users of an EC2 instance. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"AssociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was associated with an EC2 instance. "
}
},
"DisassociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was disassociated from an EC2 instance. "
}
}

},
"traits": {
"smithy.api#documentation": " Describes users of an EC2 instance providing user-based

subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " An exception occurred with the service. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
"type": "service",

"version": "2018-05-10",
"operations": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
}
],
"traits": {
"aws.api#service": {
"sdkId": "License Manager User Subscriptions",
"arnNamespace": "license-manager-user-subscriptions",
"cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
},
"aws.auth#sigv4": {
"name": "license-manager-user-subscriptions"
},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",
"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"

]
},

"smithy.api#documentation": " With License Manager, you can create user-based subscriptions to utilize licensed software with\n a per user subscription fee on Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager User Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}

},
"rules": [
{
"conditions": [
{
"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
]
}
],

```
        "type": "tree",
        "rules": [
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseFIPS"
                  },

                true
                ]
              }
            ],
            "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
            "type": "error"
          },
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseDualStack"
                  },
                  true
                ]
              }
            ],

"error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
            "type": "error"
          },
          {
            "conditions": [],
            "endpoint": {
              "url": {
                "ref": "Endpoint"
              },
              "properties": {},
              "headers": {}
            },
            "type": "endpoint"
          }
        ]
      },
      {
```

```
            "conditions": [
              {
                "fn": "isSet",
                "argv": [

    {
                    "ref": "Region"
                }
                ]
              }
            ],
            "type": "tree",
            "rules": [
              {
                "conditions": [
                  {
                    "fn": "aws.partition",
                    "argv": [
                      {
                        "ref": "Region"
                      }
                    ],
                    "assign": "PartitionResult"
                  }
                ],
                "type": "tree",

  "rules": [
                  {
                    "conditions": [
                      {
                        "fn": "booleanEquals",
                        "argv": [
                          {
                            "ref": "UseFIPS"
                          },
                          true
                        ]
                      },
                      {
                        "fn": "booleanEquals",
                        "argv": [
                          {
                            "ref": "UseDualStack"

                          },
                          true
                        ]
```

```
                    }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    true,
                                    {
                                        "fn": "getAttr",

 "argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },
                                            "supportsFIPS"
                                        ]
                                    }
                                ]
                            },
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    true,
                                    {

                "fn": "getAttr",
                                        "argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },
                                            "supportsDualStack"
                                        ]
                                    }
                                ]
                            }
                        ],
                        "type": "tree",
                        "rules": [
                            {

                "conditions": [],
                                "endpoint": {
                                    "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                    "properties": {},
```

```
                "headers": {}
            },
            "type": "endpoint"
        }
    ]
  },
  {
    "conditions": [],
    "error": "FIPS and DualStack are enabled, but this partition does not support one or both",
     "type": "error"
  }
]
},
{
  "conditions": [
    {
      "fn": "booleanEquals",
      "argv": [
        {
          "ref": "UseFIPS"
        },
        true
      ]
    }
  ],
  "type": "tree",

"rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            true,
            {
              "fn": "getAttr",
              "argv": [
                {
                  "ref": "PartitionResult"
                },
                "supportsFIPS"

            ]
            }
          ]
        }
      ],
```

```
                "type": "tree",
                "rules": [
                  {
                    "conditions": [],
                    "endpoint": {
                      "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                      "properties": {},
                      "headers": {}

        },
                    "type": "endpoint"
                  }
                ]
              },
              {
                "conditions": [],
                "error": "FIPS is enabled but this partition does not support FIPS",
                "type": "error"
              }
            ]
          },
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseDualStack"
                  },
                  true
                ]
              }
            ],
            "type": "tree",
            "rules": [
              {
                "conditions": [
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      true,
                      {

                        "fn": "getAttr",
                          "argv": [
                            {
                              "ref": "PartitionResult"
```

```
                                        },
                                        "supportsDualStack"
                                    ]
                                }
                            ]
                        }
                    ],
                    "type": "tree",
                    "rules": [
                        {

                            "conditions": [],
                            "endpoint": {
                                "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                "properties": {},
                                "headers": {}
                            },
                            "type": "endpoint"
                        }
                    ]
                },
                {
                    "conditions": [],
                    "error": "DualStack is enabled but this partition does
 not support DualStack",
                    "type": "error"
                }
            ]
        },
        {
            "conditions": [],
            "endpoint": {
                "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                "properties": {},
                "headers": {}
            },
            "type": "endpoint"
        }
    ]
}
]
},
{
    "conditions":
 [],
    "error": "Invalid Configuration: Missing Region",
```

```
                "type": "error"
            }
        ]
    },
    "smithy.rules#endpointTests": {
        "testCases": [
            {
                "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
                "expect": {
                    "endpoint": {
                        "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
                    }
                },
                "params": {
                    "Region": "us-east-1",
                    "UseFIPS": true,
                    "UseDualStack": true
                }
            },
            {
                "documentation":
"For region us-east-1 with FIPS enabled and DualStack disabled",
                "expect": {
                    "endpoint": {
                        "url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
                    }
                },
                "params": {
                    "Region": "us-east-1",
                    "UseFIPS": true,
                    "UseDualStack": false
                }
            },
            {
                "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
                "expect": {
                    "endpoint": {
                        "url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
                    }
                },

            "params": {
                    "Region": "us-east-1",
                    "UseFIPS": false,
                    "UseDualStack": true
                }
            },
            {
```

"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with
FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},

"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},

"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1
with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{

"documentation": "For region us-gov-east-1
with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect":
{
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",

"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack":
true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but
this partition does not support one or both"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},

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            "params": {
              "Region": "us-isob-east-1",
              "UseFIPS": true,
              "UseDualStack": false
            }

    },
            {
            "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
              "error": "DualStack is enabled but this partition does not support DualStack"
            },
            "params": {
              "Region": "us-isob-east-1",
              "UseFIPS": false,
              "UseDualStack": true
            }
            },
            {
            "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
              }
            },
             "params": {
              "Region": "us-isob-east-1",
              "UseFIPS": false,
              "UseDualStack": false
            }
            },
            {
            "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
            "expect": {
              "endpoint": {
                "url": "https://example.com"
              }
            },
            "params": {
              "Region": "us-east-1",
              "UseFIPS": false,
              "UseDualStack": false,
              "Endpoint": "https://example.com"
            }
            },
            {
```

"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true,
"Endpoint": "https://example.com"
}
},
{
"documentation": "Missing region",
"expect": {
"error": "Invalid Configuration: Missing Region"
}
}
],
"version": "1.0"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the identity providers for user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/ListIdentityProviders"
},
"smithy.api#paginated":
{
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "IdentityProviderSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
"type": "structure",

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        "members": {
          "MaxResults": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
{
        "type": "structure",
        "members": {
          "IdentityProviderSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
              "smithy.api#required": {}
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
         },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/instance/ListInstances"
            },
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
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"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
"type": "structure",
"members": {
"InstanceSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list instances operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{

"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the user-based subscription products available from an identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/ListProductSubscriptions"
},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "ProductUserSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
"type": "structure",
"members": {
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}

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            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {

  "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match
one or\n      more sets of key-value pairs that you specify.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
        "type": "structure",
        "members": {
            "ProductUserSummaries": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the list product subscriptions
operation.</p>"
                }
            },

     "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target":
 "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists user associations for an identity provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListUserAssociations"
            },
            "smithy.api#paginated":
{
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
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"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
"type": "structure",
"members": {
"InstanceUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list user association operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
"type": "structure",

"members": {

"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider of the user. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}

},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a product for a user. ",
"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for a product for a user. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"SubscriptionStartDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The

start date of a subscription. "
}
},
"SubscriptionEndDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The end date of a subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " The summary of the user-based subscription products for a user. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{

"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Registers an identity provider for user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/RegisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings such as the\n subnets to provision VPC endpoints. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the results of an identity provider

operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The resource couldn't be found. ",
"smithy.api#error": "client",
"smithy.api#httpError": 404
}
},
"com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
"type": "string",

"traits": {
"smithy.api#length": {
"min": 5,
"max": 200
},
"smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request failed because a service quota is exceeded. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Settings": {
"type": "structure",
"members": {
"Subnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {

"smithy.api#documentation":
" The subnets defined for the registered identity provider. ",
"smithy.api#length": {
"min": 1
},
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID that allows inbound TCP port 1688
communication between resources in\n your VPC and the VPC endpoint for activation servers. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings
such as the\n subnets to provision VPC endpoints, and the security group ID that
is associated with the VPC\n endpoints. The security group should permit inbound TCP port 1688
communication from resources\n in the VPC. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},

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            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Starts a product subscription for a user with the specified identity
provider.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related costs
will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status)
in Amazon Web Services Billing.
 For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n        monthly
charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/StartProductSubscription"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                 "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
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"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
"type": "structure",
"members": {
"ProductUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the start product subscription operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{

"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Stops a product subscription for a user with the specified identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/StopProductSubscription"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
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"smithy.api#required":
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"Product": {
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"traits": {
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"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
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"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
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"members": {
"ProductUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
"traits": {
"smithy.api#documentation":
" Metadata that describes the start product subscription operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StringList": {
"type": "list",
"member": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Subnet": {
"type": "string",
"traits": {
"smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
}
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"com.amazonaws.licensemanagerusersubscriptions#Subnets": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
"type": "structure",
"members": {
"message": {

"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request was denied because of request throttling. Retry the
request. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
},

"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
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"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
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"traits": {
"smithy.api#documentation": " Updates additional product configuration settings for the registered identity\n provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/UpdateIdentityProviderSettings"
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"smithy.api#idempotent": {}
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"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
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"members": {
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"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
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"UpdateSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related

configuration settings. You can\n update any combination of settings in a single operation such as the: \n \n \n Subnets which you want to add to provision VPC endpoints. \n \n \n Subnets which you want to remove the VPC endpoints from. \n \n \n Security group ID which permits traffic to the VPC endpoints. \n \n ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#required": {}
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"com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
"type": "structure",
"members": {
"AddSubnets": {

"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets in which License Manager will create a VPC endpoint for products that\n require connectivity to activation servers. ",
"smithy.api#required": {}
}
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"RemoveSubnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets to remove. ",
"smithy.api#required": {}
}
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"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID that allows inbound TCP port 1688 communication between resources in\n your VPC and the VPC endpoints for activation servers. "
}
}
},

"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings such as\n the subnets to provision VPC endpoints. "
}
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"com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " A parameter is not valid. ",
"smithy.api#error": "client"
}
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"smithy": "2.0",
"metadata": {
"suppressions": [
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"namespace": "*"
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"id": "HttpResponseCodeSemantics",
"namespace": "*"
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"id": "PaginatedTrait",
"namespace": "*"
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"id": "HttpHeaderTrait",
"namespace": "*"
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"id": "HttpUriConflict",
"namespace": "*"
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"id": "Service",
"namespace": "*"
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},
"shapes": {
  "com.amazonaws.licensemanager#AWSLicenseManager": {
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    "version": "2018-08-01",
    "operations": [
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        "target": "com.amazonaws.licensemanager#CheckInLicense"
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        "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
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        "target": "com.amazonaws.licensemanager#CheckoutLicense"
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        "target": "com.amazonaws.licensemanager#CreateGrant"
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        "target": "com.amazonaws.licensemanager#CreateGrantVersion"
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        "target": "com.amazonaws.licensemanager#CreateLicense"
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        "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
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        "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
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        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
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        "target": "com.amazonaws.licensemanager#CreateLicenseVersion"
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        "target": "com.amazonaws.licensemanager#CreateToken"
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        "target": "com.amazonaws.licensemanager#DeleteGrant"
      },
      {
        "target": "com.amazonaws.licensemanager#DeleteLicense"
```

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      "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
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      "target": "com.amazonaws.licensemanager#DeleteToken"
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      "target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

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      "target": "com.amazonaws.licensemanager#GetAccessToken"
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      "target": "com.amazonaws.licensemanager#GetGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicense"
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      "target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
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    {
      "target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
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      "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
    },
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      "target": "com.amazonaws.licensemanager#GetLicenseUsage"
    },
    {
      "target": "com.amazonaws.licensemanager#GetServiceSettings"
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      "target": "com.amazonaws.licensemanager#ListDistributedGrants"
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    {
      "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
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    {
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"target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
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"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
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"target": "com.amazonaws.licensemanager#ListLicenses"
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"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
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"target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
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"target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
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"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization"
},
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"target": "com.amazonaws.licensemanager#ListResourceInventory"
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"target": "com.amazonaws.licensemanager#ListTagsForResource"
},
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"target": "com.amazonaws.licensemanager#ListTokens"
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"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
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"target": "com.amazonaws.licensemanager#RejectGrant"
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"target": "com.amazonaws.licensemanager#TagResource"
},

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"target": "com.amazonaws.licensemanager#UntagResource"
},
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"target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateServiceSettings"
}
],
"traits": {
"aws.api#service": {
"sdkId": "License Manager",
"arnNamespace": "license-manager",
"cloudFormationName": "LicenseManager",
"cloudTrailEventSource": "licensemanager.amazonaws.com",
"endpointPrefix": "license-manager"
},
"aws.auth#sigv4": {
"name": "license-manager"
},
"aws.protocols#awsJson1_1": {},
"smithy.api#documentation": " License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers. ",
"smithy.api#title": "AWS License Manager",
"smithy.api#xmlNamespace": {
"uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
},
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not

support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send
this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}
},
"rules": [
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"conditions": [
{
"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
]

}
],
"type": "tree",
"rules": [
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
},
true
]
}
],
"error": "Invalid Configuration: FIPS and custom endpoint are not supported",
"type": "error"

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"conditions": [
                {
                  "fn": "booleanEquals",
                  "argv": [
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                    },
                    true
                  ]
                }
              ],
              "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
              "type": "error"
            },
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              "conditions": [],
              "endpoint": {
                "url": {
                  "ref": "Endpoint"
                 },
                "properties": {},
                "headers": {}
              },
              "type": "endpoint"
            }
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          "conditions": [
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              "argv": [
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                  "ref": "Region"
                }
              ]
            }
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          "type": "tree",
          "rules": [
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              "conditions": [
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                  "argv": [
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                {
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            "assign": "PartitionResult"
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                    "argv": [
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"UseFIPS"
                        },
                        true
                    ]
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                {
                    "fn": "booleanEquals",
                    "argv": [
                        {
                            "ref": "UseDualStack"
                        },
                        true
                    ]
                }
            ],
            "type": "tree",
            "rules": [
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                    "conditions": [
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                            "fn": "booleanEquals",
                            "argv": [
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                                    "fn": "getAttr",
                                    "argv": [
                                        {
                                            "ref": "PartitionResult"
                                        },
                                        "supportsFIPS"
                                    ]
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                    }
                        ]
                    },
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                        "fn": "booleanEquals",
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                            true,
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                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
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"supportsDualStack"

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                                ]
                            }
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                    }
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                "type": "tree",
                "rules": [
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                        "conditions": [],
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                            "url": "https://license-manager-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                            "properties": {},
                            "headers": {}
```

```
                    },
                        "type": "endpoint"
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                ]
            },
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                "conditions": [],
                "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
                "type": "error"
            }
        ]
    },
    {
        "conditions": [
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                "fn": "booleanEquals",
```

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                "argv": [
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                    },
                    true
                ]
            }
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        "rules": [
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                        "argv": [
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{
                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsFIPS"
                                ]
                            }
                        ]
                    }
                ],
                "type": "tree",
                "rules": [

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                        "conditions": [],
                        "endpoint": {
                            "url": "https://license-manager-fips.{Region}.{PartitionResult#dnsSuffix}",
                            "properties": {},
                            "headers": {}
                        },
                        "type": "endpoint"
                    }
                ]
            },
            {
                "conditions": [],
                "error": "FIPS is enabled but this
partition does not support FIPS",
                "type": "error"
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                    }
                ]
            },
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseDualStack"
                            },
                            true
                        ]
                    }
                ],
                "type": "tree",
                 "rules": [
                    {
                        "conditions": [
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    true,
                                    {
                                        "fn": "getAttr",
                                        "argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },

"supportsDualStack"
                                        ]
                                    }
                                ]
                            }
                        ],
                        "type": "tree",
                        "rules": [
                            {
                                "conditions": [],
                                "endpoint": {
                                    "url": "https://license-
manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                    "properties": {},
                                    "headers": {}

                },
                            "type": "endpoint"
```

```
                    }
                ]
            },
            {
                "conditions": [],
                "error": "DualStack is enabled but this partition does not support DualStack",
                "type": "error"
            }
        ]
    },
    {
        "conditions": [],
        "endpoint": {
            "url": "https://license-manager.{Region}.{PartitionResult#dnsSuffix}",
            "properties": {},
            "headers": {}
        },
        "type": "endpoint"
    }
  ]
}
]
},
{
"conditions": [],
"error": "Invalid Configuration: Missing Region",
"type": "error"
}
]
},
"smithy.rules#endpointTests": {
"testCases": [
{
"documentation": "For region af-south-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint":
{
"url": "https://license-manager.af-south-1.amazonaws.com"
}
},
"params": {
"Region": "af-south-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
```

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    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-east-1.amazonaws.com"
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    },
    "params": {
      "Region": "ap-east-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-northeast-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "ap-northeast-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-northeast-2.amazonaws.com"
      }
    },
    "params": {
      "Region": "ap-northeast-2",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-northeast-3.amazonaws.com"
      }
    },
    "params": {
      "Region": "ap-northeast-3",
      "UseFIPS": false,
      "UseDualStack": false
```

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            }

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                "expect": {
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                    }
                },
                "params": {
                    "Region": "ap-south-1",
                    "UseFIPS": false,
                    "UseDualStack": false
                }
            },
            {
                "documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
                "expect": {
                    "endpoint": {
                        "url": "https://license-manager.ap-southeast-1.amazonaws.com"

        }
                },
                "params": {
                    "Region": "ap-southeast-1",
                    "UseFIPS": false,
                    "UseDualStack": false
                }
            },
            {
                "documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
                "expect": {
                    "endpoint": {
                        "url": "https://license-manager.ap-southeast-2.amazonaws.com"
                    }
                },
                "params": {
                    "Region": "ap-southeast-2",
                    "UseFIPS": false,
                    "UseDualStack": false
                }
            },
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        "documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
                "expect": {
                    "endpoint": {
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"url": "https://license-manager.ap-southeast-3.amazonaws.com"
}
},
"params": {
"Region": "ap-southeast-3",
"UseFIPS": false,
"UseDualStack": false
}
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{
"documentation": "For region ca-central-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ca-central-1.amazonaws.com"
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"params": {
"Region": "ca-central-1",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-central-1.amazonaws.com"
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"params": {
"Region": "eu-central-1",
"UseFIPS": false,
"UseDualStack": false
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{
"documentation": "For region eu-north-1 with FIPS
disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-north-1.amazonaws.com"
}
},
"params": {
"Region": "eu-north-1",
"UseFIPS": false,
"UseDualStack": false

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            }
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        {
            "documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.eu-south-1.amazonaws.com"
                }
            },
            "params": {
                "Region":
"eu-south-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
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        {
            "documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.eu-west-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "eu-west-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
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            "documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
            "expect": {

            "endpoint": {
                    "url": "https://license-manager.eu-west-2.amazonaws.com"
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            },
            "params": {
                "Region": "eu-west-2",
                "UseFIPS": false,
                "UseDualStack": false
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            "documentation": "For region eu-west-3 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.eu-west-3.amazonaws.com"
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        "params": {
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            "UseFIPS": false,

"UseDualStack": false
        }
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        "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.me-south-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "me-south-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
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        "documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.sa-east-1.amazonaws.com"
             }
        },
        "params": {
            "Region": "sa-east-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.us-east-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": false
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},
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"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
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}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-east-2.amazonaws.com"
}

},
"params": {
"Region": "us-east-2",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-east-2.amazonaws.com"
}
},
"params": {
"Region": "us-east-2",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region
us-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-west-1.amazonaws.com"
}

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            "params": {
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              "UseFIPS": false,
              "UseDualStack": false
            }
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            "documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
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              "endpoint": {
                "url": "https://license-manager-fips.us-west-1.amazonaws.com"
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            "params": {

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              "UseDualStack": false
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              "UseDualStack": false
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            "documentation": "For region us-west-2 with FIPS enabled and DualStack disabled",

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            "params": {
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              "UseFIPS": true,
              "UseDualStack": false
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                }
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": true,

                "UseDualStack": true
              }
            },
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              "expect": {
                "endpoint": {
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                }
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true
              }
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              "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
              "expect": {
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"https://license-manager.cn-north-1.amazonaws.com.cn"
                }
              },
              "params": {
                "Region": "cn-north-1",
                "UseFIPS": false,
                "UseDualStack": false
              }
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              "documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
                }
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"UseFIPS": false,
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"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
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"url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
}
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"params": {
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"UseFIPS": true,
"UseDualStack": true
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}
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"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},

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        {
            "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager.us-gov-east-1.amazonaws.com"
              }
            },
            "params": {
              "Region": "us-gov-east-1",
              "UseFIPS": false,
              "UseDualStack": false
            }
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            "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
              }
             },
            "params": {
              "Region": "us-gov-east-1",
              "UseFIPS": true,
              "UseDualStack": false
            }
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            "documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
            "expect": {
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                "url": "https://license-manager.us-gov-west-1.amazonaws.com"
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              "Region": "us-gov-west-1",
              "UseFIPS": false,
              "UseDualStack": false
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            "params": {
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"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-gov-east-1.api.aws"
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"params": {
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"UseFIPS": false,
"UseDualStack": true
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"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack
disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
}
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"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
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"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",

"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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"params": {
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"UseFIPS": true,
"UseDualStack": true
}
},
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"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled
but this partition does not support DualStack"
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"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
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"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},

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                    "UseDualStack": true
                }
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                "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
                "expect": {
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                        "url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
                    }
                },

        "params": {
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                    "UseFIPS": true,
                    "UseDualStack": false
                }
            },
            {
                "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
                "expect": {
                    "error": "DualStack is enabled but this partition does not support DualStack"
                },
                "params": {
                    "Region": "us-isob-east-1",
                    "UseFIPS": false,
                    "UseDualStack": true
                }
            },
            {
                "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

    "expect": {
                    "endpoint": {
                        "url": "https://example.com"
                    }
                },
                "params": {
                    "Region": "us-east-1",
                    "UseFIPS": false,
                    "UseDualStack": false,
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"Endpoint": "https://example.com"
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{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,

"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
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"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
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"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true,
"Endpoint": "https://example.com"
}
},
{
"documentation": "Missing region",
"expect": {
"error": "Invalid Configuration: Missing Region"
}

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                }
            ],
            "version": "1.0"
        }
    }
  },
  "com.amazonaws.licensemanager#AcceptGrant": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#AcceptGrantRequest"

},
    "output": {
      "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      },
      {
        "target": "com.amazonaws.licensemanager#ValidationException"

  }
    ],
    "traits": {
      "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
    }
  },
  "com.amazonaws.licensemanager#AcceptGrantRequest": {
    "type": "structure",
    "members": {
      "GrantArn": {
        "target": "com.amazonaws.licensemanager#Arn",
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            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#AcceptGrantResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant
ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#AccessDeniedException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
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"code": "ServiceAccessDenied",
"httpResponseCode": 401
},
"smithy.api#documentation": " Access to resource denied. ",
"smithy.api#error": "client",
"smithy.api#httpError": 401
}
},
"com.amazonaws.licensemanager#ActivationOverrideBehavior": {
"type": "enum",
"members": {
"DISTRIBUTED_GRANTS_ONLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
}
},
"ALL_GRANTS_PERMITTED_BY_ISSUER": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
}
}
}
},
"com.amazonaws.licensemanager#AllowedOperation": {

"type": "enum",
"members": {
"CREATE_GRANT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CreateGrant"
}
},
"CHECKOUT_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckoutLicense"
}
},
"CHECKOUT_BORROW_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckoutBorrowLicense"
}
},
"CHECK_IN_LICENSE": {

"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckInLicense"
}
},
"EXTEND_CONSUMPTION_LICENSE":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ExtendConsumptionLicense"
}
},
"LIST_PURCHASED_LICENSES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ListPurchasedLicenses"
}
},
"CREATE_TOKEN": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CreateToken"
}
}
}
},
"com.amazonaws.licensemanager#AllowedOperationList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#AllowedOperation"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max":
7
}
}
},
"com.amazonaws.licensemanager#Arn": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"

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        }
    },
    "com.amazonaws.licensemanager#ArnList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Arn"
        }
    },
    "com.amazonaws.licensemanager#AuthorizationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError":
 {
                "code": "AuthorizationFailure",
                "httpResponseCode": 403
            },
            "smithy.api#documentation": "<p>The Amazon Web Services user account does not have permission to
perform the action. Check the IAM\n        policy associated with this account.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 403
        }
    },
    "com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
        "type": "structure",
        "members": {
            "LastRunTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes automated discovery.</p>"
        }
    },

  "com.amazonaws.licensemanager#Boolean": {
        "type": "boolean",
        "traits": {
            "smithy.api#default": false
        }
    },
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    "com.amazonaws.licensemanager#BorrowConfiguration": {
        "type": "structure",
        "members": {
            "AllowEarlyCheckIn": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether early check-ins are allowed.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxTimeToLiveInMinutes": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
                    "smithy.api#required": {}
                }
            }

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        "traits": {
            "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#BoxBoolean": {
        "type": "boolean"
    },
    "com.amazonaws.licensemanager#BoxInteger": {
        "type": "integer"
    },
    "com.amazonaws.licensemanager#BoxLong": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#CheckInLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
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        },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseRequest":
 {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
```

"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicense":
{
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{
"target":
"com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks out the specified license for offline use. "
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
"type": "structure",
"members":
{
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The license must use the borrow consumption configuration. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. Partial checkouts are not supported. ",
"smithy.api#required": {}
}
},
"DigitalSignatureMethod": {
"target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
"traits": {
"smithy.api#documentation": " Digital signature method. The possible value is JSON Web Signature (JWS) algorithm PS384.\n For more information, see RFC 7518 Digital Signature with RSASSA-PSS. ",
"smithy.api#required": {}
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
},
"ClientToken": {

"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation":
" Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed":
{
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " Allowed license entitlements. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"SignedToken": {
"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",

"traits": {
"smithy.api#documentation": " Date and time at which the license checkout is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"

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            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license.</p>\n        <note>\n            <p>If the
account that created the license is the same that is performing the check out, you must\n            specify the account
as the beneficiary.</p>\n        </note>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutLicenseRequest": {
        "type": "structure",
        "members": {
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product
 SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "CheckoutType": {
                "target": "com.amazonaws.licensemanager#CheckoutType",
                "traits": {
                    "smithy.api#documentation": "<p>Checkout type.</p>",
                    "smithy.api#required": {}
                }
            },
            "KeyFingerprint": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Key fingerprint identifying the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
```

"traits": {
"smithy.api#documentation": " License entitlements. ",

"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
"type": "structure",
"members": {
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed": {

"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " Allowed license entitlements. "
}
},
"SignedToken": {
"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and
time at which the license checkout expires. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the checkout license. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutType": {
"type": "enum",
"members": {
"PROVISIONAL": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PROVISIONAL"

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                }
            },
            "PERPETUAL": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PERPETUAL"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ClientRequestToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max": 36
            }
        }
    },
    "com.amazonaws.licensemanager#ClientToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 2048
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
    "com.amazonaws.licensemanager#ConflictException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ConflictException",
                "httpResponseCode":
409
            },
            "smithy.api#documentation": "<p>There was a conflict processing the request. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 409
        }
    },
```

```
    "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
      "type": "structure",
      "members": {
        "ResourceType": {
          "target": "com.amazonaws.licensemanager#ResourceType",
          "traits": {
            "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
          }
        },
        "ConsumedLicenses": {
          "target": "com.amazonaws.licensemanager#BoxLong",
          "traits": {
            "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
          }
        }
      },

"traits": {
        "smithy.api#documentation": "<p>Details about license consumption.</p>"
      }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
      }
    },
    "com.amazonaws.licensemanager#ConsumptionConfiguration": {
      "type": "structure",
      "members": {
        "RenewType": {
          "target": "com.amazonaws.licensemanager#RenewType",
          "traits": {
            "smithy.api#documentation": "<p>Renewal frequency.</p>"
          }
        },
        "ProvisionalConfiguration": {
          "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
          "traits": {
            "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
           }
        },
        "BorrowConfiguration": {
          "target": "com.amazonaws.licensemanager#BorrowConfiguration",
          "traits": {
            "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
          }
        }
```

```
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of
license\n        entitlements with a specific Amazon Web Services account, an organization, or an\n
organizational unit (OU). For more
 information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantRequest": {
        "type": "structure",
        "members": {
```

"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}

}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Principals": {
"target": "com.amazonaws.licensemanager#PrincipalArnList",
"traits": {
"smithy.api#documentation": " The grant principals. You can specify one of the following as an Amazon Resource Name\n (ARN): \n \n \n An Amazon Web Services account, which includes only the account specified. \n \n \n \n \n An organizational unit (OU), which includes all accounts in the OU. \n \n \n \n
\n An organization, which will include all accounts across your organization. \n \n ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. ",
"smithy.api#required": {}

```
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },

      "com.amazonaws.licensemanager#CreateGrantResponse": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Grant version.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CreateGrantVersion":
{
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
```

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a new version of the specified grant. For more information, see\n Granted licenses in License Manager in the License Manager User Guide. "
}
},
"com.amazonaws.licensemanager#CreateGrantVersionRequest": {
"type": "structure",
"members": {
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",

"smithy.api#required": {}
}
},
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. "
}

```
        },
        "AllowedOperations": {
            "target": "com.amazonaws.licensemanager#AllowedOperationList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
             "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "StatusReason": {
            "target": "com.amazonaws.licensemanager#StatusReasonMessage",
            "traits": {
                "smithy.api#documentation": "<p>Grant status reason.</p>"
            }
        },
        "SourceVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Current version of the grant.</p>"
            }
        },
        "Options": {
            "target": "com.amazonaws.licensemanager#Options",
            "traits": {
                "smithy.api#documentation": "<p>The options specified for the grant.</p>"
            }
        }
    },
     "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
```

```
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>New version of the grant.</p>"
            }
        }
    },
    "traits":
{
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
         },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a license.</p>"
```

```
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license configuration.</p>\n        <p>A license configuration is an abstraction of a customer license agreement that can be\n        consumed and enforced by License Manager. Components include specifications for the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n        Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a \n        license must be associated with a host), and the number of licenses purchased and used.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>",
                    "smithy.api#required": {}
                }
```

```
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the license configuration.</p>"
                }
            },
            "LicenseCountingType": {
                "target": "com.amazonaws.licensemanager#LicenseCountingType",
                 "traits": {
                    "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
                }
            },
            "LicenseCountHardLimit": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether hard or soft license enforcement is used.
Exceeding a hard limit\n        blocks the launch of new instances.</p>"
                }
            },
            "LicenseRules": {
                "target":
 "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>License rules. The syntax is #name=value (for example,
#allowedTenancy=EC2-DedicatedHost). The available rules \n        vary by dimension, as follows.</p>\n
<ul>\n            <li>\n                <p>\n                    <code>Cores</code> dimension: <code>allowedTenancy</code> |\n
            <code>licenseAffinityToHost</code> |\n                <code>maximumCores</code> |
<code>minimumCores</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>Instances</code> dimension: <code>allowedTenancy</code> | \n                <code>maximumCores</code> |
<code>minimumCores</code> |\n                <code>maximumSockets</code> | <code>minimumSockets</code> |\n
            <code>maximumVcpus</code> | <code>minimumVcpus</code>\n                </p>\n            </li>\n
<li>\n
  <p>\n                    <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n
<code>licenseAffinityToHost</code> |\n                <code>maximumSockets</code> |
<code>minimumSockets</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n
<code>honorVcpuOptimization</code> | \n                <code>maximumVcpus</code> |
<code>minimumVcpus</code>\n                </p>\n            </li>\n        </ul>\n        <p>The unit for
<code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n        values for
<code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n
```

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<code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n
<code>True</code> and <code>False</code>.</p>"
                }
            },

  "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Tags to add to the license configuration.</p>"
                }
            },
            "DisassociateWhenNotFound": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
                }
            },
            "ProductInformationList": {
                "target": "com.amazonaws.licensemanager#ProductInformationList",
                "traits": {
                    "smithy.api#documentation": "<p>Product information.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse":
 {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
```

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {

                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting
from. \n\n        For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
```

```
            }
          },
          "DestinationLicenseContext":
{
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
              "smithy.api#documentation": "<p>Information that identifies the license type you are converting to.
For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
        "type": "structure",
        "members": {
          "LicenseConversionTaskId": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

       "traits": {
              "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
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{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a report generator. "
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"ReportGeneratorName":
{
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types an be generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}

}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",

"traits": {
"smithy.api#documentation": " Defines the type of license configuration the report generator tracks. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the new report generator. "

```
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product
name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "Issuer": {
                "target": "com.amazonaws.licensemanager#Issuer",
                "traits": {
                    "smithy.api#documentation": "<p>License issuer.</p>",
                    "smithy.api#required": {}
                }
            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Home Region for the license.</p>",
                    "smithy.api#required": {}

  }
            },
            "Validity": {
```

"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}

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},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        },
        "Version": {
             "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
         },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
```

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            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target":
"com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product name.</p>",
                    "smithy.api#required": {}
                }
            },
            "Issuer": {
                "target": "com.amazonaws.licensemanager#Issuer",
                "traits":
{
                    "smithy.api#documentation": "<p>License issuer.</p>",
                    "smithy.api#required": {}
```

```
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "Validity": {
            "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {
                "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
                "smithy.api#required": {}
            }
        },
        "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
                 "smithy.api#documentation": "<p>Information about the license.</p>"
            }
        },
        "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
            "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>",
                "smithy.api#required": {}
            }
        },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n         running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n         usage.</p>",
                "smithy.api#required": {}
            }
        },

  "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>",
                "smithy.api#required": {}
            }
        },
        "ClientToken": {
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"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New version of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
}
},
"traits": {
"smithy.api#output":
{}
}
},
"com.amazonaws.licensemanager#CreateToken": {
"type": "operation",

"input": {
"target": "com.amazonaws.licensemanager#CreateTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},

{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a long-lived token. \n A refresh token is a JWT token used to get an access token. With an access token,\n you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n call License Manager to manage the specified license. "
}
},
"com.amazonaws.licensemanager#CreateTokenRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits":
{
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n JWT token. ",

"smithy.api#required": {}
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n License Manager does not check whether the roles are in use. "
}
},
"ExpirationInDays": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Token expiration, in days, counted from token creation. The default is 365 days. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller to be included in the JWT token. The data is mapped\n to the amr claim of the JWT token. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Idempotency token, valid for 10 minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateTokenResponse": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Token ID. "
}
},
"TokenType": {
"target": "com.amazonaws.licensemanager#TokenType",

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            "traits": {
                "smithy.api#documentation": "<p>Token type.</p>"
            }
        },
        "Token": {
            "target": "com.amazonaws.licensemanager#TokenString",
            "traits": {
                "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#DateTime": {
    "type": "timestamp"
},
"com.amazonaws.licensemanager#DatetimeRange": {
    "type": "structure",
    "members": {
        "Begin": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Start of the time range.</p>",
                "smithy.api#required": {}
            }
        },
        "End": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>End of the time range.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
    }
},
"com.amazonaws.licensemanager#DeleteGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
    },
    "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes
the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the
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grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation":
" Grant version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

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            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
        },

    "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license configuration.</p>\n        <p>You cannot delete a license configuration that is in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
```

{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified report generator. \n This action deletes the report generator, which stops it from generating future reports.\n The action cannot be reversed. It has no effect on the previous reports from this generator. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to be deleted. ",
"smithy.api#required": {}
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}

```
    },
    "com.amazonaws.licensemanager#DeleteLicenseRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "SourceVersion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Current version of the license.</p>",
            "smithy.api#required":
{}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseResponse": {
      "type": "structure",
      "members": {
        "Status": {
          "target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
          "traits": {
            "smithy.api#documentation": "<p>License status.</p>"
          }
        },
        "DeletionDate": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
          "traits": {
            "smithy.api#documentation": "<p>Date when the license is deleted.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteToken": {
      "type": "operation",
       "input": {
        "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
```

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },

    {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
```

"com.amazonaws.licensemanager#DeleteTokenResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}

}
},
"com.amazonaws.licensemanager#DigitalSignatureMethod": {
"type": "enum",
"members": {
"JWT_PS384": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "JWT_PS384"
}
}
}
},
"com.amazonaws.licensemanager#Entitlement": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement resource. Use only
if the unit is None. "
}
},
"MaxCount": {
"target": "com.amazonaws.licensemanager#Long",
"traits": {
"smithy.api#documentation": " Maximum entitlement count. Use if the unit is not None. "
}
},
"Overage": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether overages are allowed. "
}
},

```
            "Unit": {
                "target": "com.amazonaws.licensemanager#EntitlementUnit",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement unit.</p>",
                    "smithy.api#required": {}
                }
            },
            "AllowCheckIn": {
                "target":
"com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether check-ins are allowed.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes a resource entitled for use with a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementData": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement data name.</p>",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement
data value.</p>"
                }
            },
            "Unit": {
                "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement data unit.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Data associated with an entitlement resource.</p>"
        }
    },
```

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    "com.amazonaws.licensemanager#EntitlementDataList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementData"
        }
    },
    "com.amazonaws.licensemanager#EntitlementDataUnit": {
        "type": "enum",
        "members": {
            "COUNT": {
                "target": "smithy.api#Unit",
                "traits": {

"smithy.api#enumValue": "Count"
                }
            },
            "NONE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "None"
                }
            },
            "SECONDS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Seconds"
                }
            },
            "MICROSECONDS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Microseconds"
                }
            },
            "MILLISECONDS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Milliseconds"
                }
            },
            "BYTES": {
                "target": "smithy.api#Unit",
                 "traits": {
                    "smithy.api#enumValue": "Bytes"
                }
            },
            "KILOBYTES": {
                "target": "smithy.api#Unit",
```

"traits": {
"smithy.api#enumValue": "Kilobytes"
}
},
"MEGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes"
}
},
"GIGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes"
}
},
"TERABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {

"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"

}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"
}
},
"KILOBYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes/Second"
}
},
"MEGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes/Second"
}
},
"GIGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes/Second"
}
},
"TERABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes/Second"
}
},
"BITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits/Second"
}
},

"KILOBITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits/Second"
}
},
"MEGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue":
"Megabits/Second"
}
},
"GIGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits/Second"
}
},
"TERABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits/Second"
}
},
"COUNT_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count/Second"
}
}
}
},
"com.amazonaws.licensemanager#EntitlementList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Entitlement"
}
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {

```
            "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#EntitlementUnit": {
        "type": "enum",
        "members": {
            "COUNT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Count"
                }
            },
            "NONE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "None"
                }
            },
            "SECONDS":
{
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Seconds"
                }
            },
            "MICROSECONDS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Microseconds"
                }
            },
            "MILLISECONDS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Milliseconds"
                }
            },
            "BYTES": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Bytes"
                }
            },
            "KILOBYTES": {
                "target": "smithy.api#Unit",
                "traits": {
```

"smithy.api#enumValue": "Kilobytes"
}
},
"MEGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes"
}
},
"GIGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes"
}
},
"TERABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "Terabits"
}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target":
"smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"
}
},
"KILOBYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes/Second"
}
},
"MEGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes/Second"
}
},
"GIGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes/Second"
}
},
"TERABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Terabytes/Second"
}
},
"BITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits/Second"
}
},

```
        "KILOBITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobits/Second"
            }
        },
        "MEGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabits/Second"
            }
        },
        "GIGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabits/Second"
            }
        },

    "TERABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits/Second"
            }
        },
        "COUNT_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Count/Second"
            }
        }
    }
},
"com.amazonaws.licensemanager#EntitlementUsage": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                "smithy.api#required": {}
            }
        },
        "ConsumedValue": {
            "target": "com.amazonaws.licensemanager#String",

        "traits": {
                "smithy.api#documentation": "<p>Resource usage consumed.</p>",
```

"smithy.api#required": {}
}
},
"MaxCount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Maximum entitlement usage count. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {
"smithy.api#documentation": " Entitlement usage unit. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Usage associated with an entitlement resource. "
}
},
"com.amazonaws.licensemanager#EntitlementUsageList":
{
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#EntitlementUsage"
}
},
"com.amazonaws.licensemanager#ExtendLicenseConsumption": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}

      }
            },
            "DryRun": {
                "target": "com.amazonaws.licensemanager#Boolean",
                "traits": {
                    "smithy.api#default": false,
                    "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>"
                }
            },
```

"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license consumption expires. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#FailedDependencyException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
},
"ErrorCode": {
"target": "com.amazonaws.licensemanager#String"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FailedDependency",
"httpResponseCode": 424
},
"smithy.api#documentation":
" A dependency required to run the API is missing. ",
"smithy.api#error": "client",
"smithy.api#httpError": 424
}
},
"com.amazonaws.licensemanager#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#FilterName",
"traits": {
"smithy.api#documentation": " Name of the filter. Filter names are case-sensitive. "
}
},
"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " The value of the filter, which is case-sensitive. You can only
specify one value for the filter. "
}

```
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A filter
 name and value pair that is used to return more specific results from a\n          describe operation. Filters can be used
to match a set of resources by specific criteria,\n          such as tags, attributes, or IDs.</p>"
        }
    },
    "com.amazonaws.licensemanager#FilterLimitExceededException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "FilterLimitExceeded",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#FilterList": {
        "type": "list",
         "member": {
            "target": "com.amazonaws.licensemanager#Filter"
        }
    },
    "com.amazonaws.licensemanager#FilterName": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#FilterValue": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#FilterValues": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#FilterValue",
            "traits": {
                "smithy.api#xmlName": "item"
            }
        }
    },
    "com.amazonaws.licensemanager#Filters": {
        "type": "list",
```

"member": {
"target": "com.amazonaws.licensemanager#Filter",
"traits": {
"smithy.api#xmlName": "item"
}
}
},
"com.amazonaws.licensemanager#GetAccessToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access tokens\n are valid for one hour. "
}
},
"com.amazonaws.licensemanager#GetAccessTokenRequest": {
"type": "structure",
"members": {
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token, encoded as a JWT token. ",
"smithy.api#required": {}
}
},

"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Token properties to validate against those present in the JWT token. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetAccessTokenResponse": {
"type": "structure",
"members": {
"AccessToken": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Temporary access token. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"

},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"

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        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
                "smithy.api#documentation": "<p>Grant details.</p>"
            }
        }
    },
    "traits": {
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"smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"

 },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": " Gets detailed information about the specified license. "
    }
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },

```
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license
configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits":
 {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
```

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    }
},
"Name": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
        "smithy.api#documentation": "<p>Name of the license configuration.</p>"
     }
},
"Description": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
        "smithy.api#documentation": "<p>Description of the license configuration.</p>"
    }
},
"LicenseCountingType": {
    "target": "com.amazonaws.licensemanager#LicenseCountingType",
    "traits": {
        "smithy.api#documentation": "<p>Dimension for which the licenses are counted.</p>"
    }
},
"LicenseRules": {
    "target": "com.amazonaws.licensemanager#StringList",
    "traits": {
        "smithy.api#documentation": "<p>License rules.</p>"
    }
},
"LicenseCount": {
    "target": "com.amazonaws.licensemanager#BoxLong",

   "traits": {
        "smithy.api#documentation": "<p>Number of available licenses.</p>"
    }
},
"LicenseCountHardLimit": {
    "target": "com.amazonaws.licensemanager#BoxBoolean",
    "traits": {
        "smithy.api#documentation": "<p>Sets the number of available licenses as a hard limit.</p>"
    }
},
"ConsumedLicenses": {
    "target": "com.amazonaws.licensemanager#BoxLong",
    "traits": {
        "smithy.api#documentation": "<p>Number of licenses assigned to resources.</p>"
    }
},
"Status": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
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"smithy.api#documentation": " License configuration status. "
}

},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When
true, disassociates a resource when software is uninstalled. "
}
}
},

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified license type conversion task. "
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}

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        }
      },
      "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
        "type": "structure",
        "members": {
          "LicenseConversionTaskId": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
            "traits": {
              "smithy.api#documentation": "<p>ID of the license type conversion task.</p>"
            }
          },
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the resources the license
conversion task is associated with.</p>"
            }
          },
          "SourceLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
              "smithy.api#documentation": "<p>Information
 about the license type converted from.</p>"
            }
          },
          "DestinationLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
              "smithy.api#documentation": "<p>Information about the license type converted to.</p>"
            }
          },
          "StatusMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
            "traits": {
              "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
            }
          },

  "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
```

```
            }
        },
        "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
            }
        },
        "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGenerator":
{
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

    },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
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            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
                    "smithy.api#required":
 {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {
            "ReportGenerator": {
                "target": "com.amazonaws.licensemanager#ReportGenerator",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
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"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseResponse": {
"type": "structure",
"members": {
"License": {
"target": "com.amazonaws.licensemanager#License",
"traits": {
"smithy.api#documentation": " License details. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},

"com.amazonaws.licensemanager#GetLicenseUsage": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{

"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the usage of the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseUsageRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseUsageResponse": {
"type": "structure",
"members": {
"LicenseUsage": {
"target":
"com.amazonaws.licensemanager#LicenseUsage",
"traits": {
"smithy.api#documentation": " License usage details. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetServiceSettings": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets the License Manager settings for the current Region. "
}
},
"com.amazonaws.licensemanager#GetServiceSettingsRequest": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Regional S3 bucket path for storing reports, license trail event data, discovery data,\n and so on. "

}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " SNS topic configured to receive notifications from License Manager. "

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            }
        },
        "OrganizationConfiguration": {
            "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Indicates whether Organizations is integrated with License
Manager for\n        cross-account discovery.</p>"
            }
        },
        "EnableCrossAccountsDiscovery": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Indicates whether cross-account discovery is enabled.</p>"
            }

      },
        "LicenseManagerResourceShareArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
Manager management account \n        provides member accounts with access to this share.</p>"
            }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#Grant": {
      "type": "structure",
      "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "GrantName": {

  "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant name.</p>",
                "smithy.api#required": {}
            }
        },
        "ParentArn": {
            "target": "com.amazonaws.licensemanager#Arn",
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"traits": {
"smithy.api#documentation": " Parent ARN. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. ",
"smithy.api#required": {}
}
},
"GranteePrincipalArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {

"smithy.api#documentation": " The grantee principal ARN. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. ",
"smithy.api#required": {}
}
},
"GrantedOperations": {

"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Granted operations. ",
"smithy.api#required": {}
}
},
"Options": {
"target": "com.amazonaws.licensemanager#Options",
"traits": {
"smithy.api#documentation": " The options specified for the grant. "
}
}
},
"traits": {
"smithy.api#documentation":
" Describes a grant. "
}
},
"com.amazonaws.licensemanager#GrantList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Grant"
}
},
"com.amazonaws.licensemanager#GrantStatus": {
"type": "enum",
"members": {
"PENDING_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_WORKFLOW"
}
},
"PENDING_ACCEPT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_ACCEPT"
}
},
"REJECTED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REJECTED"

}
},
"ACTIVE": {
"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "ACTIVE"
}
},
"FAILED_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "FAILED_WORKFLOW"
}
},
"DELETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DELETED"
}
},
"PENDING_DELETE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_DELETE"
}
},
"DISABLED": {
"target": "smithy.api#Unit",
"traits":
{
"smithy.api#enumValue": "DISABLED"
}
},
"WORKFLOW_COMPLETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "WORKFLOW_COMPLETED"
}
}
}
},
"com.amazonaws.licensemanager#GrantedLicense": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " License name. "
}

},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " Granted license issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the granted license. "

}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " Granted license status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the granted license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Granted license beneficiary. "
}

```
        },
        "Entitlements": {
          "target": "com.amazonaws.licensemanager#EntitlementList",
           "traits": {
            "smithy.api#documentation": "<p>License entitlements.</p>"
          }
        },
        "ConsumptionConfiguration": {
          "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
          "traits": {
            "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
          }
        },
        "LicenseMetadata": {
          "target": "com.amazonaws.licensemanager#MetadataList",
          "traits": {
            "smithy.api#documentation": "<p>Granted license metadata.</p>"
          }
        },
        "CreateTime": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
          "traits": {
            "smithy.api#documentation": "<p>Creation time of the granted license.</p>"

}
        },
        "Version": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Version of the granted license.</p>"
          }
        },
        "ReceivedMetadata": {
          "target": "com.amazonaws.licensemanager#ReceivedMetadata",
          "traits": {
            "smithy.api#documentation": "<p>Granted license received metadata.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Describes a license that is granted to a grantee.</p>"
      }
    },
    "com.amazonaws.licensemanager#GrantedLicenseList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#GrantedLicense"
      }
```

```
    },
    "com.amazonaws.licensemanager#ISO8601DateTime":
{
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            },
            "smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-
1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[ 0-3]|[0-1][0-9]):[0-5][0-9])+$"
        }
    },
    "com.amazonaws.licensemanager#Integer": {
        "type": "integer"
    },
    "com.amazonaws.licensemanager#InvalidParameterValueException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidParameterValueProvided",
                "httpResponseCode": 400
            },
            "smithy.api#documentation":
"<p>One or more parameter values are not valid.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InvalidResourceStateException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidResourceState",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n        <p>For example, you cannot allocate a license to an instance in the process of shutting\n
```

down. ",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },

    "com.amazonaws.licensemanager#InventoryFilter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " Name of the filter. ",
                    "smithy.api#required": {}
                }
            },
            "Condition": {
                "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
                "traits": {
                    "smithy.api#documentation": " Condition of the filter. ",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " Value of the filter. "
                }
            }

    },
        "traits": {
            "smithy.api#documentation": " An inventory filter. "
        }
    },
    "com.amazonaws.licensemanager#InventoryFilterCondition": {
        "type": "enum",
        "members": {
            "EQUALS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "EQUALS"
                }
            },
            "NOT_EQUALS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "NOT_EQUALS"

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                }
            },
            "BEGINS_WITH": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "BEGINS_WITH"
                }
            },
            "CONTAINS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "CONTAINS"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#InventoryFilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#InventoryFilter"
        }
    },
    "com.amazonaws.licensemanager#Issuer": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>",
                    "smithy.api#required": {}
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage
 of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about the issuer of a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#IssuerDetails": {
        "type": "structure",
        "members": {
```

"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. "
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer key fingerprint. "
}
}
},
"traits": {
"smithy.api#documentation": " Details associated with the issuer of a license. "
}
},
"com.amazonaws.licensemanager#License": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " License name. "
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " License issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Home Region of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"Entitlements": {

"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "

```
                }
            },
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>License metadata.</p>"
                }
            },
            "CreateTime": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>License
creation time.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfiguration": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            },
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>"
                }
            },
            "Description": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension to use to track the license inventory. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Number of available licenses as a hard limit. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the license configuration. "
}
},

"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the license configuration's owner. "

}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for licenses consumed by various resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {

"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource consuming licenses. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " Time when the license configuration was associated with the resource. "
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an association with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
}
},
"com.amazonaws.licensemanager#LicenseConfigurationStatus": {
"type": "enum",
"members":
{
"AVAILABLE": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "AVAILABLE"
}
},
"DISABLED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DISABLED"
}
}
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsage": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits":
{
"smithy.api#documentation": " Type of resource. "
}
},
"ResourceStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was initially associated with
the resource. "
}
},

"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
}
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfiguration"
}
},
"com.amazonaws.licensemanager#LicenseConversionContext": {

"type": "structure",
"members": {
"UsageOperation": {
"target": "com.amazonaws.licensemanager#UsageOperation",
"traits": {
"smithy.api#documentation": " The Usage operation value that corresponds to the license type you are converting your resource from. For more information about which platforms correspond to which usage operation values see Sample data: usage operation by platform\n \n "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTask": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {

"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource associated with the license type\n conversion task. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted to. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " The status of the conversion task. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was started at. "
}
},
"LicenseConversionTime": {
"target": "com.amazonaws.licensemanager#DateTime",

"traits": {
"smithy.api#documentation": " The time the usage operation value of the resource was changed. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was completed. "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTaskId": {
"type": "string",
"traits": {

"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
}
},
"com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
"type": "enum",
"members": {
"IN_PROGRESS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "IN_PROGRESS"
}
},
"SUCCEEDED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SUCCEEDED"
}
},
"FAILED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "FAILED"
}
}

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        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTasks":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTask"
        }
    },
    "com.amazonaws.licensemanager#LicenseCountingType": {
        "type": "enum",
        "members": {
            "VCPU": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "vCPU"
                }
            },
            "INSTANCE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Instance"
                }
            },
            "CORE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Core"
                }
            },
            "SOCKET": {
                "target": "smithy.api#Unit",
                 "traits": {
                    "smithy.api#enumValue": "Socket"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#LicenseDeletionStatus": {
        "type": "enum",
        "members": {
            "PENDING_DELETE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_DELETE"
                }
            },
            "DELETED": {
```

"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DELETED"
}
}
}
},
"com.amazonaws.licensemanager#LicenseList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#License"
}
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {

"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Resource type. "
}
},
"ErrorMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Error message. "
}
},
"FailureTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " Failure time. "
}
},
"OperationName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the operation. "
}
},

"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource. "
}
},
"OperationRequestedBy": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The requester is \"License Manager Automated Discovery\". "
}
},
"MetadataList": {

"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Reserved. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the failure of a license operation. "
}
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailure"
}
},
"com.amazonaws.licensemanager#LicenseSpecification": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",

"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "

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            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details for associating a license configuration with a resource.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#LicenseSpecification"
    }
},
"com.amazonaws.licensemanager#LicenseStatus": {
    "type": "enum",
    "members": {
        "AVAILABLE": {
            "target": "smithy.api#Unit",

        "traits": {
                "smithy.api#enumValue": "AVAILABLE"
            }
        },
        "PENDING_AVAILABLE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_AVAILABLE"
            }
        },
        "DEACTIVATED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DEACTIVATED"
            }
        },
        "SUSPENDED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "SUSPENDED"
            }
        },
        "EXPIRED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EXPIRED"
            }
        },
```

"PENDING_DELETE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_DELETE"
}
},
"DELETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DELETED"
}
}
}
},
"com.amazonaws.licensemanager#LicenseUsage": {
"type": "structure",
"members": {
"EntitlementUsages": {
"target": "com.amazonaws.licensemanager#EntitlementUsageList",
"traits": {
"smithy.api#documentation": " License entitlement usages. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the entitlement usage associated with a license. "

}
},
"com.amazonaws.licensemanager#LicenseUsageException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "LicenseUsageFailure",
"httpResponseCode": 412
},
"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the resource associations for the
specified license configuration. \n Resource associations need not consume licenses from a license
configuration. \n For example, an AMI or a stopped instance might not consume a license (depending on \n
the license rules). "
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {

"smithy.api#documentation": " Maximum number of results
to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationAssociations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license
configuration. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"

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            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants distributed for the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
        "type": "structure",
        "members": {
            "GrantArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {

            "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>LicenseArn</code>\n            </p>\n
        </li>\n            <li>\n                <p>\n                <code>GrantStatus</code>\n            </p>\n            </li>\n
    <li>\n            <p>\n                <code>GranteePrincipalARN</code>\n            </p>\n            </li>\n
<li>\n            <p>\n                <code>ProductSKU</code>\n            </p>\n            </li>\n            <li>\n
<p>\n                <code>LicenseIssuerName</code>\n
        </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
    "type": "structure",
    "members": {
        "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",

"traits": {
                "smithy.api#documentation": "<p>Distributed grant details.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
    },
    "errors": [
        {
```

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configuration operations that failed. "
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name of the license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse":

```
{
        "type": "structure",
        "members": {
           "LicenseOperationFailureList": {
              "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
              "traits": {
                 "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
              }
           },
           "NextToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
           }
        },
        "traits": {
           "smithy.api#output": {}
        }
     },
     "com.amazonaws.licensemanager#ListLicenseConfigurations": {
        "type": "operation",
        "input": {
           "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },

    "output": {
           "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
           {
              "target": "com.amazonaws.licensemanager#AccessDeniedException"
           },
           {
              "target": "com.amazonaws.licensemanager#AuthorizationException"
           },
           {
              "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
           },
           {
              "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
           },
           {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
           },
           {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
           }
```

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations
 for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next
 set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n                Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n                Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n                <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n                Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n
    </li>\n            <li>\n                <p>\n                <code>usagelimitExceeded</code> - A Boolean value that
indicates whether the available licenses have been exceeded. \n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
```

```
    }
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
    "type": "structure",
    "members": {
        "LicenseConfigurations": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurations",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license configurations.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",

      "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasks": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
         },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
```

"traits": {
"smithy.api#documentation": " Lists the license type conversion tasks for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
"type": "structure",
"members": {
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " \n Filters to scope the results. Valid filters are <code>ResourceArns</code> and <code>Status</code>.\n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
"type": "structure",
"members": {
"LicenseConversionTasks": {
"target": "com.amazonaws.licensemanager#LicenseConversionTasks",
"traits": {
"smithy.api#documentation": " Information about the license configuration tasks for your account. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}

```
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the report generators for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest":
{
        "type": "structure",
        "members": {
```

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported:
\n \n \n \n <code>LicenseConfigurationArn</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits":
{
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
"type": "structure",
"members": {
"ReportGenerators": {
"target": "com.amazonaws.licensemanager#ReportGeneratorList",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic reports about your license
configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}

}
},
"traits": {
"smithy.api#output": {}
}
},

"com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Describes the license configurations for the specified resource. "
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a resource that has an associated license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {

```
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {
        "LicenseSpecifications": {
            "target": "com.amazonaws.licensemanager#LicenseSpecifications",
            "traits": {
                "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
            }
        },
        "NextToken": {
             "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

```
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
    "type": "structure",
    "members": {
        "Licenses": {
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
                "smithy.api#documentation": "<p>License details.</p>"
            }
        },
```

"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenses": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicensesRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicensesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses for your account. "
}
},
"com.amazonaws.licensemanager#ListLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {

"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>Status</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#LicenseList",
"traits": {
"smithy.api#documentation": " License details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists grants that are received. Received grants are grants created while specifying the\n recipient as this Amazon Web Services account, your organization, or an organizational unit\n (OU) to which this member account belongs. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
"type": "operation",
"input": {

"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target":
"com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants received for all accounts in the organization. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the received license. ",
"smithy.api#required": {}
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are
supported: \n

```
<ul>\n <li>\n <p>\n <code>ParentArn</code>\n </p>\n </li>\n
<li>\n <p>\n <code>GranteePrincipalArn</code>\n </p>\n </li>\n </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse":
{
        "type": "structure",
        "members": {
          "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
            "traits": {
              "smithy.api#documentation": "<p>Lists the grants the organization has received.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
        "type": "structure",
        "members": {
          "GrantArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
```

"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranterAccountId</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Received grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}

```
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicenses": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists received licenses.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
```

```
            },
            "errors": [
                {
                    "target": "com.amazonaws.licensemanager#AccessDeniedException"
                },
                {
                    "target": "com.amazonaws.licensemanager#AuthorizationException"
                },
                {
                    "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
                },
                {
                    "target": "com.amazonaws.licensemanager#RateLimitExceededException"
                },
                {
                    "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
                },
                {

        "target": "com.amazonaws.licensemanager#ServerInternalException"
                },
                {
                    "target": "com.amazonaws.licensemanager#ValidationException"
                }
            ],
            "traits": {
                "smithy.api#documentation": "<p>Lists the licenses received for all accounts in the organization.</p>"
            }
        },
        "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
            "type": "structure",
            "members": {
                "Filters": {
                    "target": "com.amazonaws.licensemanager#FilterList",
                    "traits": {
                        "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>Beneficiary</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                <code>ProductSKU</code>\n
                </p>\n            </li>\n        </ul>"
                    }
                },
                "NextToken": {
                    "target": "com.amazonaws.licensemanager#String",
                    "traits": {
                        "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                    }
                },
                "MaxResults": {
```

"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#GrantedLicenseList",
"traits": {
"smithy.api#documentation": " Lists the licenses the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>IssuerName</code>\n \n \n \n \n

```
<code>Beneficiary</code>\n            </p>\n          </li>\n        </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#GrantedLicenseList",
            "traits": {
                "smithy.api#documentation": "<p>Received license details.</p>"
            }
          },

         "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListResourceInventory": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
```

```
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#FailedDependencyException"
          },
          {
            "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListResourceInventoryRequest": {
        "type": "structure",
        "members": {
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "Filters": {
            "target": "com.amazonaws.licensemanager#InventoryFilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n are supported:</p>\n <ul>\n <li>\n <p>\n <code>account_id</code>
```

- The ID of the Amazon Web Services account that owns the resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n
\n \n \n <code>application_name</code> - The name of the application. \n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n
\n \n \n <code>license_included</code> - The type of license included. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n Possible values are <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n
\n <code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n \n \n \n
<code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n
<code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account). \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListResourceInventoryResponse": {
"type": "structure",
"members": {
"ResourceInventoryList": {
"target": "com.amazonaws.licensemanager#ResourceInventoryList",
"traits": {
"smithy.api#documentation": " Information about the resources. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListTagsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
},

"output": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the tags for the specified license configuration. "
}
},
"com.amazonaws.licensemanager#ListTagsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",

"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListTagsForResourceResponse": {
"type": "structure",
"members": {
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Information about the tags. "

```
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors":
[
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
          "TokenIds": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {

              "smithy.api#documentation": "<p>Token IDs.</p>"
            }
          },
          "Filters": {
```

"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filter is supported: \n
\n \n \n <code>LicenseArns</code>\n \n \n
"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation":
" Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListTokensResponse": {
"type": "structure",
"members": {
"Tokens": {
"target": "com.amazonaws.licensemanager#TokenList",
"traits": {
"smithy.api#documentation": " Received token details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
"type": "operation",

"input": {
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists all license usage records for a license configuration, displaying license\n consumption details by resource at a selected point in time. Use this action to audit the\n current license consumption for any license inventory and configuration. "
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}

```
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>resourceArn</code> - The ARN of the license configuration resource.\n
            Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n
 <li>\n                <p>\n                <code>resourceType</code> - The resource type
(<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> |
<code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n
    <code>resourceAccount</code> - The ID of the account that owns the resource. \n                Logical operators
are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
        "type": "structure",
        "members": {

 "LicenseConfigurationUsageList": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
```

"com.amazonaws.licensemanager#Location": {
"type": "string"
},
"com.amazonaws.licensemanager#Long": {
"type": "long"
},
"com.amazonaws.licensemanager#ManagedResourceSummary": {
"type": "structure",
"members": {
"ResourceType":
{
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of resource associated with a license. "
}
},
"AssociationCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of resources associated with licenses. "
}
}
},
"traits": {
"smithy.api#documentation": " Summary information about a managed resource. "
}
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummary"
}
},
"com.amazonaws.licensemanager#MaxSize100": {

"type": "integer",
"traits": {
"smithy.api#range": {
"min": 1,
"max": 100
}
}
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#String"
},

"traits": {
"smithy.api#length": {
"min": 0,
"max": 3
}
}
},
"com.amazonaws.licensemanager#Message": {
"type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The key name. "
}
},

"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The value. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes key/value pairs. "
}
},
"com.amazonaws.licensemanager#MetadataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Metadata"
}
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",

"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#Options": {
"type": "structure",
"members": {
"ActivationOverrideBehavior": {
"target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
"traits": {
"smithy.api#documentation": " An activation option for your grant that determines the behavior of activating a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter. \n \n \n As a license administrator, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant. \n \n \n As a grantor, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your organization. \n \n \n As a grantee, if the grantor creating the distributed grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n are activating the grant. \n \n \n <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n Use this value to activate a grant without replacing any member accounts\n active grants for the same product. \n </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n Use this value to activate a grant and disable other active grants in any\n member accounts
for the same product. This action will also replace their\n previously activated grants with this activated grant. \n </dd>\n </dl>"
}
}
},
"traits": {
"smithy.api#documentation": " The options you can specify when you create a new version of a grant, such as activation\n override behavior. For more information, see Granted licenses in License Manager in the License Manager User Guide. "
}
},
"com.amazonaws.licensemanager#OrganizationConfiguration": {
"type": "structure",
"members": {
"EnableIntegration": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#default": false,
"smithy.api#documentation": " Enables Organizations integration. ",
"smithy.api#required": {}
}
}

```
        },
        "traits": {
            "smithy.api#documentation": "<p>Configuration information for Organizations.</p>"
        }
    },
    "com.amazonaws.licensemanager#PrincipalArnList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Arn"
        },
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max": 1
            }
        }
    },
    "com.amazonaws.licensemanager#ProductInformation": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type. The
 possible values are <code>SSM_MANAGED</code> | <code>RDS</code>.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductInformationFilterList": {
                "target": "com.amazonaws.licensemanager#ProductInformationFilterList",
                "traits": {
                    "smithy.api#documentation": "<p>A Product information filter consists of a
<code>ProductInformationFilterComparator</code> which is a logical operator, a
<code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a
<code>ProductInformationFilterValue</code> that specifies the value to filter on. </p>\n        <p>Accepted values
for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for
<code>ProductInformationFilterComparator</code>. </p>\n        <p>The following filters and are supported when
the resource type \n        is <code>SSM_MANAGED</code>:</p>\n
        <ul>\n            <li>\n                <p>\n                    <code>Application Name</code> - The name of the
application.\n                Logical operator is <code>EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n                <code>Application Publisher</code> - The publisher of the application.\n                Logical
operator is <code>EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n
<code>Application Version</code> - The version of the application.\n                Logical operator is
<code>EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                    <code>Platform
Name</code> - The name of the platform.\n                Logical operator is <code>EQUALS</code>.</p>\n
</li>\n            <li>\n                <p>\n                    <code>Platform Type</code> - The platform type.\n
Logical operator is <code>EQUALS</code>.</p>\n
```

```
</li>\n <li>\n <p>\n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>.  The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n </p>\n </li>\n <li>\n <p>\n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>.</p>\n </li>\n <li>\n <p>\n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> |  \n <code>windows-server-datacenter</code>.</p>\n </li>\n </ul>\n <p>The following filters and logical operators are supported when the resource type\n is <code>RDS</code>:</p>\n <ul>\n <li>\n <p>\n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>.</p>\n </li>\n <li>\n <p>\n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n <code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>.</p>\n </li>\n </ul>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes product information for a license configuration.</p>"
    }
  },
  "com.amazonaws.licensemanager#ProductInformationFilter": {
    "type": "structure",
    "members": {
        "ProductInformationFilterName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Filter name.</p>",
                "smithy.api#required": {}
            }
        },
        "ProductInformationFilterValue": {
            "target": "com.amazonaws.licensemanager#StringList",

      "traits": {
                "smithy.api#documentation": "<p>Filter value.</p>"
            }
        },
        "ProductInformationFilterComparator": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

```
                "smithy.api#documentation": "<p>Logical operator.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes product information filters.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformationFilter"
    }
},
"com.amazonaws.licensemanager#ProductInformationList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformation"
     }
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
    "type": "structure",
    "members": {
        "MaxTimeToLiveInMinutes": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
    }
},
"com.amazonaws.licensemanager#RateLimitExceededException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
         "aws.protocols#awsQueryError": {
            "code": "RateLimitExceeded",
            "httpResponseCode": 429
        },
```

"smithy.api#documentation": " Too many requests have been submitted. Try again after a brief wait. ",
"smithy.api#error": "client",
"smithy.api#httpError": 429
}
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
"type": "structure",
"members": {
"ReceivedStatus": {
"target": "com.amazonaws.licensemanager#ReceivedStatus",
"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Received status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations. "
}
}
},
"traits": {
"smithy.api#documentation": " Metadata associated with received licenses and grants. "
}
},
"com.amazonaws.licensemanager#ReceivedStatus": {
"type": "enum",
"members": {
"PENDING_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_WORKFLOW"
}
},
"PENDING_ACCEPT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_ACCEPT"
}

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        },
        "REJECTED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "REJECTED"
            }
        },
        "ACTIVE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "ACTIVE"
            }
        },
        "FAILED_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        },
        "DISABLED": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "DISABLED"
            }
        },
        "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#RedirectException": {
    "type": "structure",
    "members": {
        "Location": {
            "target": "com.amazonaws.licensemanager#Location",
            "traits": {
                "smithy.api#httpHeader": "Location"
            }
        },
```

```
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
             "smithy.api#error": "client",
            "smithy.api#httpError": 308
        }
    },
    "com.amazonaws.licensemanager#RejectGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#RejectGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#RejectGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest": {
        "type": "structure",
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        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}

  }
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Grant version.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#RenewType":
{
        "type": "enum",
        "members": {
          "NONE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "None"
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            }
        },
        "WEEKLY": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Weekly"
            }
        },
        "MONTHLY": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Monthly"
            }
        }
    }
},
"com.amazonaws.licensemanager#ReportContext": {
    "type": "structure",
    "members": {
        "licenseConfigurationArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {

        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration that this
generator reports on.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details of the license configuration that this generator reports on.</p>"
    }
},
"com.amazonaws.licensemanager#ReportFrequency": {
    "type": "structure",
    "members": {
        "value": {
            "target": "com.amazonaws.licensemanager#Integer",
            "traits": {
                "smithy.api#documentation": "<p>Number of times within the frequency period that a report is
generated.  \n        The only supported value is <code>1</code>.</p>"
            }
        },
        "period": {
            "target": "com.amazonaws.licensemanager#ReportFrequencyType",

            "traits": {
                "smithy.api#documentation": "<p>Time period between each report. The period can be daily, weekly,
```

or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"com.amazonaws.licensemanager#ReportFrequencyType": {
"type": "enum",
"members": {
"DAY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DAY"
}
},
"WEEK": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "WEEK"
}
},
"MONTH": {
"target": "smithy.api#Unit",
"traits":
{
"smithy.api#enumValue": "MONTH"
}
}
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the report generator. "
}
},
"ReportType": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports that are generated. "
}
},
"ReportContext": {

"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " License configuration type for this generator. "
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. "
}
},
"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}
},
"LastRunFailureReason": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Failure message for the last report generation attempt. "
}
},
"LastReportGenerationTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the last report was generated at. "
}
},
"ReportCreatorAccount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Web Services account ID used to create the report generator. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the report was created. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags associated with the report generator. "
}

}
},
"traits": {
"smithy.api#documentation": " Describe the details of a report generator. "
}
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportGenerator"
}
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
}
}
},
"com.amazonaws.licensemanager#ReportType": {
"type": "enum",
"members": {
"LICENSE_CONFIGURATION_SUMMARY_REPORT": {

"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "LicenseConfigurationSummaryReport"
}

},
"LICENSE_CONFIGURATION_USAGE_REPORT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "LicenseConfigurationUsageReport"
}
}
}
},
"com.amazonaws.licensemanager#ReportTypeList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportType"
}
},
"com.amazonaws.licensemanager#ResourceInventory": {
"type": "structure",
"members": {
"ResourceId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits":
{
"smithy.api#documentation": " Type of resource. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"Platform": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Platform of the resource. "
}
},

"PlatformVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Platform version of the resource in the inventory. "
}
},
"ResourceOwningAccountId":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a resource. "
}
},
"com.amazonaws.licensemanager#ResourceInventoryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ResourceInventory"
}
},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ResourceLimitExceeded",

"httpResponseCode": 400
},
"smithy.api#documentation": " Your resource limits have been exceeded. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}

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    },
    "traits": {
      "aws.protocols#awsQueryError": {
        "code": "InvalidResource.NotFound",
        "httpResponseCode": 400
      },
      "smithy.api#documentation": "<p>The resource cannot be found.</p>",
      "smithy.api#error": "client",
      "smithy.api#httpError": 400
    }
  },
  "com.amazonaws.licensemanager#ResourceType": {
    "type": "enum",
    "members": {
      "EC2_INSTANCE": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "EC2_INSTANCE"
        }
      },
      "EC2_HOST": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "EC2_HOST"
        }
      },
      "EC2_AMI": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "EC2_AMI"
        }
      },
      "RDS": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "RDS"
        }
      },
      "SYSTEMS_MANAGER_MANAGED_INSTANCE": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
        }
      }
    }
  },
  "com.amazonaws.licensemanager#S3Location": {
    "type": "structure",
```

"members": {
"bucket": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the S3 bucket reports are published to. "
}
},
"keyPrefix": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Prefix of the S3 bucket reports are published to. "
}
}
},
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InternalError",
"httpResponseCode": 500
},
"smithy.api#documentation": " The server experienced an internal error. Try again. ",
"smithy.api#error": "server",
"smithy.api#httpError": 500
}
},
"com.amazonaws.licensemanager#SignedToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 4096
}
}
},
"com.amazonaws.licensemanager#StatusReasonMessage": {
"type": "string",
"traits":

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{
            "smithy.api#length": {
                "min": 0,
                "max": 400
            },
            "smithy.api#pattern": "^[\\s\\S]+$"
        }
    },
    "com.amazonaws.licensemanager#String": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#Tag": {
        "type": "structure",
        "members": {
            "Key": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag key.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Tag value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#TagList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Tag"
```

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        }
    },
    "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
            {
                "target":
 "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits":
 {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>One or more tags.</p>",
```

"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#TagResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#TokenData": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. "
}
},
"TokenType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"ExpirationTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Token expiration time, in ISO8601-UTC
format. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller. "

```
                }
            },
            "RoleArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the roles included in the
token.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token status. The possible values are
<code>AVAILABLE</code> and <code>DELETED</code>.</p>"
                }
            }
        },
        "traits": {

            "smithy.api#documentation": "<p>Describes a token.</p>"
        }
    },
    "com.amazonaws.licensemanager#TokenList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#TokenData"
        }
    },
    "com.amazonaws.licensemanager#TokenString": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 4096
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
    "com.amazonaws.licensemanager#TokenType": {
        "type": "enum",
        "members": {
            "REFRESH_TOKEN": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "REFRESH_TOKEN"
                }
            }
        }
```

```
    },
    "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException":
 {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The digital signature method is unsupported. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#UntagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UntagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UntagResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Removes the specified tags from the specified license
configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#UntagResourceRequest": {
        "type": "structure",
```

"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",
"traits": {
"smithy.api#documentation": " Keys identifying the tags to remove. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Modifies the attributes of an existing license configuration. "
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"LicenseConfigurationStatus": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
"traits": {
"smithy.api#documentation": " New status of the license configuration. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " New license rule. The only rule that you can add after you create a license\n configuration is licenseAffinityToHost. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " New number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {

"smithy.api#documentation": " New hard limit of the number of available licenses. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name
of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is
uninstalled. "
}
}
},
"traits":
{
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates a report generator. \n After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated. "
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to update. ",
"smithy.api#required": {}
}
},
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {

"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation":
" Type of reports to generate. The following report types are supported: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " The report context. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits":
{
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}

```
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },

            {
                "target": "com.amazonaws.licensemanager#InvalidResourceStateException"
            },
            {
                "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p>\n        <p>You can update the license specifications of AMIs, instances, and
hosts.\n        You cannot update the license specifications for launch templates and CloudFormation templates, \n
  as they send license configurations to the operation that creates the resource.</p>"
        }
    },
```

"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon Web Services resource. ",
"smithy.api#required": {}
}
},
"AddLicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " ARNs of the license configurations to add. "
}
},
"RemoveLicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " ARNs of the license configurations to remove. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where the License
 Manager information is stored.</p>"
                }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Enables integration with Organizations for cross-account discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Activates cross-account discovery.</p>"
```

```
        }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#UsageOperation": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            }
        }
    },
    "com.amazonaws.licensemanager#ValidationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",

     "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    }
  }
}
```


```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version
 of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
```

```
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack,
 options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
```

```
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if
 err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
```

1.3789 aws-sdk-go-v2-internal-endpoints 2.5.10

1.3789.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil,
 err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
```

```
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err !=
 nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
```

AWS SDK for Go

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```
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
```

```
      run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
       uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
```

```
 return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
```

```
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return
err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
```

```
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CheckInLicense",
 }
}
{
   "smithy": "2.0",
   "shapes": {
       "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
           "type": "integer"
       },
       "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
           "type": "long"
       },
       "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
           "type": "structure",
           "members": {
               "Name": {
                   "target": "smithy.api#String",
                   "traits": {
                       "smithy.api#documentation": "<p>The type of name to filter by.</p>"
                   }
               },
               "Values": {
                   "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                   "traits": {
                       "smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
                   }
               },
               "Operator": {
```

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
"traits": {
"smithy.api#documentation": " An operator for filtering results. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter object that is used to return more specific results from a describe operation.\n Filters can be used to match a set of resources by specific criteria. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
},
"output": {

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions service settings. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/GetServiceSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest":

{
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " Lists the settings defined for Linux subscriptions discovery. The settings include if\n Organizations integration has been enabled, and
which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays
the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
"type": "structure",
"members": {
"AmiId": {

"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The AMI ID used to launch the instance. "
}
},
"InstanceID": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The instance ID of the resource. "
}
},
"InstanceType": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The instance type of the resource. "
}

},
"AccountID": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The account ID which owns the instance. "
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of the instance. "
}
},
"Region": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The Region the instance is running in. "
}
},
"UsageOperation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The usage operation of the instance. For more information, see For more information, see\n Usage\n operation values in the License Manager User Guide. "
}
},
"ProductCode": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
"traits": {

"smithy.api#documentation": " The product code for the instance. For more information, see Usage\n operation values in the License Manager User Guide . "
}
},
"LastUpdatedTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The time in which the last discovery updated the instance details. "
}
},
"SubscriptionName": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription being used by the instance. "
}
}
},
"traits": {
"smithy.api#documentation": " Details discovered information about a running instance using Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " An exception occurred with the service. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
"type": "service",
"version": "2018-05-10",
"operations": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"

```
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
            }
        ],

    "traits": {
            "aws.api#service": {
                "sdkId": "License Manager Linux Subscriptions",
                "arnNamespace": "license-manager-linux-subscriptions",
                "cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
            },
            "aws.auth#sigv4": {
                "name": "license-manager-linux-subscriptions"
            },
            "aws.protocols#restJson1": {},
            "smithy.api#cors": {
                "additionalAllowedHeaders": [
                    "*",
                    "content-type",
                    "x-amz-content-sha256",
                    "x-amz-user-agent",
                    "x-amzn-platform-id",
                    "x-amzn-trace-id",
                    "content-length",
                    "x-api-key",
                    "authorization",
                    "x-amz-date",

 "x-amz-security-token",
                    "Access-Control-Allow-Headers",
                    "Access-Control-Allow-Methods",
                    "Access-Control-Allow-Origin"
                ],
                "additionalExposedHeaders": [
                    "x-amzn-errortype",
                    "x-amzn-requestid",
                    "x-amzn-trace-id"
                ]
            },
            "smithy.api#documentation": "<p>With License Manager, you can discover and track your commercial
Linux subscriptions on running\n      Amazon EC2 instances.</p>",
```

"smithy.api#title": "AWS License Manager Linux Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The
AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}
},
"rules": [
{
"conditions": [
{
"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
]
}
],
"type": "tree",

```
"rules": [
    {

  "conditions": [
          {
            "fn": "booleanEquals",
            "argv": [
              {
                "ref": "UseFIPS"
              },
              true
            ]
          }
        ],
        "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
        "type": "error"
    },
    {
        "conditions": [],
        "type": "tree",
        "rules": [
          {

     "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseDualStack"
                  },
                  true
                ]
              }
            ],
            "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
            "type": "error"
          },
          {
            "conditions": [],

"endpoint": {
              "url": {
                "ref": "Endpoint"
              },
              "properties": {},
              "headers": {}
            },
            "type": "endpoint"
```

```
                    }
                ]
            }
        ]
    },
    {
        "conditions": [],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "isSet",

"argv": [
                            {
                                "ref": "Region"
                            }
                        ]
                    }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [
                            {
                                "fn": "aws.partition",
                                "argv": [
                                    {
                                        "ref": "Region"
                                    }
                                ],

"assign": "PartitionResult"
                            }
                        ],
                        "type": "tree",
                        "rules": [
                            {
                                "conditions": [
                                    {
                                        "fn": "booleanEquals",
                                        "argv": [
                                            {
                                                "ref": "UseFIPS"
                                            },
                                            true
                                        ]
```

```
                    },

                {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseDualStack"
                            },
                            true
                        ]
                    }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [
                            {

                       "fn": "booleanEquals",
                                "argv": [
                                    true,
                                    {
                                        "fn": "getAttr",
                                        "argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },
                                            "supportsFIPS"
                                        ]

}
                                ]
                            },
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    true,
                                    {
                                        "fn": "getAttr",
                                        "argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },

                                 "supportsDualStack"
                                        ]
                                    }
                                ]
```

```
                    }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [],
                        "type": "tree",
                        "rules": [
                            {

                "conditions": [],
                                "endpoint": {
                                    "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                    "properties": {},
                                    "headers": {}
                                },
                                "type": "endpoint"
                            }
                        ]
                    }
                ]

            },
                {
                    "conditions": [],
                    "error": "FIPS and DualStack are enabled, but this partition does not support
one or both",
                    "type": "error"
                }
            ]
        },
        {
            "conditions": [
                {
                    "fn": "booleanEquals",
                    "argv": [
                        {

        "ref": "UseFIPS"
                        },
                        true
                    ]
                }
            ],
            "type": "tree",
            "rules": [
                {
```

```
                    "conditions": [
                        {
                            "fn": "booleanEquals",
                            "argv": [
                                true,

{
                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsFIPS"
                                ]
                            }
                        ]
                    }
                ],
                "type": "tree",

            "rules": [
                    {
                        "conditions": [],
                        "type": "tree",
                        "rules": [
                            {
                                "conditions": [],
                                "endpoint": {
                                    "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                                    "properties": {},
                                    "headers": {}

                                },
                                "type": "endpoint"
                            }
                        ]
                    }
                ]
            },
            {
                "conditions": [],
                "error": "FIPS is enabled but this partition does not support FIPS",
                "type": "error"
            }
        ]
```

```
},
                                    {
                                      "conditions": [
                                        {
                                          "fn": "booleanEquals",
                                          "argv": [
                                            {
                                              "ref": "UseDualStack"
                                            },
                                            true
                                          ]
                                        }
                                      ],
                                      "type": "tree",
                                      "rules": [
                                        {

                                       "conditions": [
                                            {
                                              "fn": "booleanEquals",
                                              "argv": [
                                                true,
                                                {
                                                  "fn": "getAttr",
                                                  "argv": [
                                                    {
                                                      "ref": "PartitionResult"
                                                    },
                                                    "supportsDualStack"
                                                  ]
                                                }
                                              ]
                                            }
                                          ],
                                          "type": "tree",
                                          "rules": [
                                            {
                                              "conditions": [],
                                              "type": "tree",
                                              "rules": [
                                                {
                                                  "conditions": [],

                                             "endpoint": {
                                                    "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                                    "properties": {},
                                                    "headers": {}
```

```
                                        },
                                        "type": "endpoint"
                                    }
                                ]
                            }
                        ]
                    },

        {
                        "conditions": [],
                        "error": "DualStack is enabled but this partition does not support DualStack",
                        "type": "error"
                    }
                ]
            },
            {
                "conditions": [],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [],
                        "endpoint": {
                            "url":
"https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                            "properties": {},
                            "headers": {}
                        },
                        "type": "endpoint"
                    }
                ]
            }
        ]
    }
]
},
{
    "conditions": [],
    "error": "Invalid Configuration: Missing Region",
    "type": "error"
}
]
}
]
},
"smithy.rules#endpointTests": {
    "testCases": [
        {
            "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
```

"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {

"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,

"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {

"url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint":

{
"url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint":
{
"url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true

```
    }
  },
  {
    "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "us-gov-east-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": true,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
      }
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": true,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
      "error": "DualStack is enabled but this partition does not support DualStack"
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": false,
      "UseDualStack": true
```

}
},
{

"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {

"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {

"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",

"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",

"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},

```
            {
              "documentation": "For custom endpoint with fips enabled and dualstack disabled",
              "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false,

        "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "For custom endpoint with fips disabled and dualstack enabled",
              "expect": {
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true,
                "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "Missing region",
              "expect": {
                "error": "Invalid Configuration: Missing Region"
              }

      }
          ],
          "version": "1.0"
        }
    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
    "type": "string",
    "traits": {
      "smithy.api#enum": [
        {
          "name": "Enabled",
          "value": "Enabled",
          "documentation": "Enabled LinuxSubscriptionsDiscovery"
        },
        {
          "name": "Disabled",
```

"value": "Disabled",
"documentation": "Disabled LinuxSubscriptionsDiscovery"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
"type": "structure",
"members": {
"SourceRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Regions in which to discover data for Linux subscriptions. ",
"smithy.api#required": {}
}
},
"OrganizationIntegration": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
"traits": {
"smithy.api#documentation": " Details if you have enabled resource discovery across your accounts in Organizations. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Lists the settings defined for discovering Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the running Amazon EC2 instances that were discovered with
commercial Linux\n      subscriptions.</p>",
            "smithy.api#http": {

      "code": 200,
                "method": "POST",
                "uri": "/subscription/ListLinuxSubscriptionInstances"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "Instances"
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by
 the name of\n        <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n
match, or don't match a certain Amazon Machine Image (AMI) ID.</p>\n        <p>The valid names for this filter
are:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>AmiID</code>\n                </p>\n
</li>\n            <li>\n                <p>\n                    <code>InstanceID</code>\n                </p>\n            </li>\n
<li>\n                <p>\n                    <code>AccountID</code>\n                </p>\n            </li>\n            <li>\n
<p>\n                    <code>Status</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>Region</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>UsageOperation</code>\n                </p>\n            </li>\n            <li>\n
    <p>\n                    <code>ProductCode</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
     <code>InstanceType</code>\n                </p>\n            </li>\n        </ul>\n        <p>The valid Operators for this
filter are:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>contains</code>\n                </p>\n
</li>\n            <li>\n                <p>\n                    <code>equals</code>\n                </p>\n            </li>\n            <li>\n
        <p>\n                    <code>Notequal</code>\n                </p>\n            </li>\n        </ul>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
```

```
}
        },
        "NextToken": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>",
            "smithy.api#length": {
              "min": 1,
              "max": 16384
            }
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
      "type": "structure",
      "members": {
        "Instances": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
          "traits": {
            "smithy.api#documentation":
 "<p>An array that contains instance objects.</p>"
          }
        },
        "NextToken": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
        },
```

{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions that have been discovered. If you have linked your\n organization, the returned results will include data aggregated across your accounts in\n Organizations. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptions"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Subscriptions"
}

}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>Subscription</code> with an optional operator to see subscriptions that match,\n partially match, or don't match a certain subscription's name. \n The valid names for this filter are: \n \n \n \n <code>Subscription</code>\n \n \n \n The valid Operators for this filter are: \n \n \n \n <code>contains</code>\n \n \n \n \n <code>equals</code>\n \n \n \n \n <code>Notequal</code>\n \n \n "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}

```
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>",
                    "smithy.api#length": {

                     "min": 1,
                        "max": 16384
                    }
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
        "type": "structure",
        "members": {
            "Subscriptions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
                "traits": {
                    "smithy.api#documentation": "<p>An array that contains subscription objects.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for
 the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "name": "EQUAL",
                    "value": "Equal",
                    "documentation": "Equal operator"
                },
                {
                    "name": "NOT_EQUAL",
                    "value": "NotEqual",
```

"documentation": "Not equal operator"
},
{
"name": "CONTAINS",
"value": "Contains",
"documentation": "Contains operator"
}
],
"smithy.api#length": {
"min": 1,
"max": 20
}
}
},

"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "Enabled",
"value": "Enabled",
"documentation": "Enabled OrganizationIntegration"
},
{
"name": "Disabled",
"value": "Disabled",
"documentation": "Disabled OrganizationIntegration"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
"type": "list",
"member": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
"type": "string",
"traits": {
"smithy.api#enum": [

{
"name": "InProgress",
"value": "InProgress",
"documentation": "InProgress status"
},

```
            {
                "name": "Completed",
                "value": "Completed",
                "documentation": "Completed status"
            },
            {
                "name": "Successful",
                "value": "Successful",
                "documentation": "Successful status"
            },
            {
                "name": "Failed",
                "value": "Failed",
                "documentation": "Failed status"
            }
        ]
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
    "type": "list",
    "member": {
        "target": "smithy.api#String",
        "traits":
{
            "smithy.api#length": {
                "min": 1,
                "max": 100
            }
        }
    },
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 100
        },
        "smithy.api#uniqueItems": {}
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
    "type": "map",
    "key": {
        "target": "smithy.api#String"
    },
    "value": {
        "target": "smithy.api#String"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
```

"type": "structure",
"members": {
"Name": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription. "

}
},
"Type": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own\n Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the\n Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS. "
}
},
"InstanceCount": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
"traits": {
"smithy.api#documentation": " The total amount of running instances using this subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " An object which details a discovered Linux subscription. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request was denied due to request throttling. ",
"smithy.api#error": "client"
}
},

"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
},

"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates the service settings for Linux subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/UpdateServiceSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest":
{
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Describes if the discovery of Linux subscriptions is enabled. ",
"smithy.api#required": {}
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The
settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated
from. ",

"smithy.api#required": {}
}
},
"AllowUpdate": {
"target": "smithy.api#Boolean",
"traits": {
"smithy.api#documentation": " Describes if updates are allowed to the service settings for Linux subscriptions. If you\n allow updates, you can aggregate Linux subscription data in more than one home Region. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},

"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation":
" A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {

"smithy.api#documentation": " The Region in which License Manager displays the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The provided input is not valid. Try your request again. ",
"smithy.api#error": "client"
}
}
}
}

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
```

```
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - Beneficiary
 //   - ProductSKU
 //   - Fingerprint
 //
   - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
```

```
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
if err != nil {
 return err
}
if
err := addProtocolFinalizerMiddlewares(stack, options, "ListLicenses"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
     ServiceID,
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
```

```
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 //
 This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
```

```
}
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack,
options, "DisassociateLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
```

```
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
```

```
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource
 Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil
 {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
```

```
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier
 that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData
```

```
 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return
```

```
 err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
```

```
import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide
 to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration
```

```
 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity
 *types.DatetimeRange

 // Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string
```

```
 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
  return fmt.Errorf("add
 protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
```

```
  Region:       region,
  ServiceID:     ServiceID,
  OperationName:
 "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
```

```
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return
 err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
```

```
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack);
err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
```

```
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "GetLicense",
 }
}
```

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THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
```

```
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
   - ProductSKU
 //   - Status
 //   - Fingerprint
 //   - IssuerName
 //   - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense
```

```
 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
 middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
```

}
}

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```
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
        "smithy.api#error": "client"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
      "type": "structure",
      "members": {
        "DirectoryId": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation":
```

" Details about an Active Directory identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Associates the user to an EC2 instance to utilize user-based subscriptions. \n <note>\n Your estimated bill for charges on the number of users and related costs will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more information, see Viewing your\n monthly charges in the Amazon Web Services Billing User Guide. \n </note>",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/AssociateUser"
},
"smithy.api#idempotent": {}
}

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the
EC2 instance, which provides user-based subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>The identity provider of the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
        "type": "structure",
        "members": {
            "InstanceUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
                 "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
        "type": "integer"
```

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request couldn't be completed because it conflicted with the current
state of the\n      resource.</p>",
            "smithy.api#error": "server"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider":
 {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deregisters the identity provider from providing user-based
```

subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/DeregisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation":
" Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"

```
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Disassociates the user from an EC2 instance providing user-based
subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/DisassociateUser"
            },
            "smithy.api#idempotent": {}
        }

    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
```

"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
}
},

"com.amazonaws.licensemanagerusersubscriptions#Filter": {
"type": "structure",
"members": {
"Attribute": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of an attribute to use as a filter. "
}
},
"Operation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of search (For example, eq, geq, leq) "

```
            }
        },
        "Value": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Value of the filter.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>A filter name and value pair that is used
 to return more specific results from a describe\n      operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n      attributes, or IDs.</p>"
    }
},
"com.amazonaws.licensemanagerusersubscriptions#FilterList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
    }
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
    "type": "union",
    "members": {
        "ActiveDirectoryIdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
            "traits": {
                "smithy.api#documentation": "<p>An object that details an Active Directory identity provider.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation":
 "<p>Details about an identity provider.</p>"
    }
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
    "type": "structure",
    "members": {
        "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
                "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                "smithy.api#required": {}
            }
        },
        "Settings": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
```

"traits": {
"smithy.api#documentation": " An object that details the registered identity providers product related configuration\n settings such as the subnets to provision VPC endpoints. ",
"smithy.api#required":
{}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of an identity provider. ",
"smithy.api#required": {}
}
},
"FailureMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The failure message associated with an identity provider. "
}
}
},
"traits": {
"smithy.api#documentation":
" Describes an identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
"type": "structure",
"members": {
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}

```
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status
of an EC2 instance resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "Products": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>A list of provided user-based subscription products.</p>",
                    "smithy.api#required": {}
                }
            },
            "LastStatusCheckDate": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The date of the last status check.</p>"
                }
            },
            "StatusMessage": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status message for an EC2 instance.</p>"
                }

        }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes an EC2 instance providing user-based subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
```

"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits":
{
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a user associated with an EC2 instance. ",
"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for users of an EC2 instance. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"AssociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was associated with an EC2 instance. "
}
},
"DisassociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was disassociated from an EC2 instance. "

```
            }
          }

  },
        "traits": {
          "smithy.api#documentation": "<p>Describes users of an EC2 instance providing user-based
subscriptions.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
          "smithy.api#error": "server"
        }
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      "com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
        "type": "service",

       "version": "2018-05-10",
        "operations": [
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            "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
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          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
          },
          {
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"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
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{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

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"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
},
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"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
}
],
"traits": {
"aws.api#service": {
"sdkId": "License Manager User Subscriptions",
"arnNamespace": "license-manager-user-subscriptions",
"cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
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"aws.auth#sigv4": {
"name": "license-manager-user-subscriptions"
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"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",
"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",

"x-amzn-requestid",
"x-amzn-trace-id"

]
},
"smithy.api#documentation": " With License Manager, you can create user-based subscriptions to utilize licensed software with\n a per user subscription fee on Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager User Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
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"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
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"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}

},
"rules": [
{
"conditions": [
{
"fn": "isSet",
"argv": [
{

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                "ref": "Endpoint"
            }
        ]
    }
],
"type": "tree",
"rules": [
    {
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            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseFIPS"
                    },

                true
                ]
            }
        ],
        "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
        "type": "error"
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                "fn": "booleanEquals",
                "argv": [
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                        "ref": "UseDualStack"
                    },
                    true
                ]
            }
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"error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
        "type": "error"
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        "conditions": [],
        "endpoint": {
            "url": {
                "ref": "Endpoint"
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                "type": "endpoint"
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                    "ref": "Region"
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            }
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                        "fn": "aws.partition",
                        "argv": [
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                                "ref": "Region"
                            }
                        ],
                        "assign": "PartitionResult"
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                "type": "tree",

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                                "fn": "booleanEquals",
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                                        "ref": "UseFIPS"
                                    },
                                    true
                                ]
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                                "argv": [
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"ref": "UseDualStack"

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"type": "tree",
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"argv": [
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{
"fn": "getAttr",

"argv": [
{
"ref": "PartitionResult"
},
"supportsFIPS"
]
}
]
},
{
"fn": "booleanEquals",
"argv": [
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{

"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsDualStack"
]
}
]
}
],
"type": "tree",
"rules": [
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"conditions": [],
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"url": "https://license-manager-user-subscriptions-fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
},
{
"conditions": [],
"error": "FIPS and DualStack are enabled, but this partition does not support one or both",
"type": "error"
}
]
},
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
},
true
]
}
],
"type": "tree",

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"fn": "booleanEquals",
"argv": [
true,
{
"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsFIPS"

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                    ]
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                    ]
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            "type": "tree",
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fips.{Region}.{PartitionResult#dnsSuffix}",
                        "properties": {},
                        "headers": {}

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                    "type": "endpoint"
                }
            ]
        },
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            "conditions": [],
            "error": "FIPS is enabled but this partition does not support FIPS",
            "type": "error"
        }
    ]
},
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    "conditions": [
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            "fn": "booleanEquals",
            "argv": [
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                    "ref": "UseDualStack"
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                true
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                    "argv": [
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                  },
                  "supportsDualStack"
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            ]
          }
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subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
              "properties": {},
              "headers": {}
            },
            "type": "endpoint"
          }
        ]
      },
      {
        "conditions": [],
        "error": "DualStack is enabled but this partition does
 not support DualStack",
        "type": "error"
      }
    ]
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    "conditions": [],
    "endpoint": {
      "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
      "properties": {},
      "headers": {}
    },
    "type": "endpoint"
  }
]
}
]
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                },
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                    "conditions":
[],
                    "error": "Invalid Configuration: Missing Region",
                    "type": "error"
                }
            ]
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        "smithy.rules#endpointTests": {
            "testCases": [
                {
                    "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
                    "expect": {
                        "endpoint": {
                            "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
                        }
                    },
                    "params": {
                        "Region": "us-east-1",
                        "UseFIPS": true,
                        "UseDualStack": true
                    }
                },
                {
                    "documentation":
"For region us-east-1 with FIPS enabled and DualStack disabled",
                    "expect": {
                        "endpoint": {
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                        }
                    },
                    "params": {
                        "Region": "us-east-1",
                        "UseFIPS": true,
                        "UseDualStack": false
                    }
                },
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                    "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
                    "expect": {
                        "endpoint": {
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                        }
                    },

                "params": {
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"UseFIPS": false,
"UseDualStack": true
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"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with
FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},

"params": {
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"UseFIPS": true,
"UseDualStack": false
}
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"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",

"expect": {
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}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1
with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
}
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"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
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}
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"params": {
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"documentation": "For region us-gov-east-1
with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
}
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"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
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"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
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{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect":
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"endpoint": {

"url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
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"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
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"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
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"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack":
true
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"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
}
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"params": {
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"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but
this partition does not support one or both"
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"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
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{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",

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            "expect": {
              "endpoint": {
                "url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
              }
            },
            "params": {
              "Region": "us-isob-east-1",
              "UseFIPS": true,
              "UseDualStack": false
            }

        },
        {
            "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
              "error": "DualStack is enabled but this partition does not support DualStack"
            },
            "params": {
              "Region": "us-isob-east-1",
              "UseFIPS": false,
              "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
              }
            },
             "params": {
              "Region": "us-isob-east-1",
              "UseFIPS": false,
              "UseDualStack": false
            }
        },
        {
            "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
            "expect": {
              "endpoint": {
                "url": "https://example.com"
              }
            },
            "params": {
              "Region": "us-east-1",
              "UseFIPS": false,
              "UseDualStack": false,
              "Endpoint": "https://example.com"
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            }
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"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
            "expect": {
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            "params": {
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                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips enabled and dualstack disabled",
            "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
            },
            "params": {
                "Region": "us-east-1",
                 "UseFIPS": true,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips disabled and dualstack enabled",
            "expect": {
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "Missing region",
            "expect": {
                 "error": "Invalid Configuration: Missing Region"
            }
        }
    ],
    "version": "1.0"
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            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the identity providers for user-based subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/ListIdentityProviders"
            },
            "smithy.api#paginated":
{
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "IdentityProviderSummaries"
            }
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        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
{
        "type": "structure",
        "members": {
            "IdentityProviderSummaries": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
                    "smithy.api#required": {}
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
         },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
        },
        "errors": [
            {
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"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the EC2 instances providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/instance/ListInstances"
},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "InstanceSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
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"NextToken": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
"type": "structure",
"members": {
"InstanceSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list instances operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},

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            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
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                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the user-based subscription products available from an identity
provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListProductSubscriptions"
            },
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "ProductUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name
 of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
```

"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {

"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
"type": "structure",
"members": {
"ProductUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list product subscriptions operation. "
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target":
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists user associations for an identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/ListUserAssociations"
},
"smithy.api#paginated":
{
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "InstanceUserSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
"type": "structure",
"members": {
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based
subscriptions. ",

"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
"type": "structure",
"members": {
"InstanceUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list user association operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}

```
    }
  },
  "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
    "type": "structure",
    "members": {

    "Username": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
          "smithy.api#required": {}
        }
      },
      "Product": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
          "smithy.api#required": {}
        }
      },
      "IdentityProvider": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
        "traits": {
          "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
          "smithy.api#required": {}
        }

},
      "Status": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>The status of a product for a user.</p>",
          "smithy.api#required": {}
        }
      },
      "StatusMessage": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>The status message for a product for a user.</p>"
        }
      },
      "Domain": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>The domain name of the user.</p>"
        }
      },
      "SubscriptionStartDate": {
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"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The
start date of a subscription. "
}
},
"SubscriptionEndDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The end date of a subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " The summary of the user-based subscription products for a user. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{

"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Registers an identity provider for user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/RegisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings such as the\n subnets to provision VPC endpoints. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary":

{
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The resource couldn't be found. ",
"smithy.api#error": "client",
"smithy.api#httpError": 404
}
},
"com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
"type": "string",

"traits": {
"smithy.api#length": {
"min": 5,
"max": 200
},
"smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request failed because a service quota is exceeded. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Settings": {
"type": "structure",

"members": {
"Subnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation":
" The subnets defined for the registered identity provider. ",
"smithy.api#length": {
"min": 1
},
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID that allows inbound TCP port 1688
communication between resources in\n your VPC and the VPC endpoint for activation servers. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings
such as the\n subnets to provision VPC endpoints, and the security group ID that
is associated with the VPC\n endpoints. The security group should permit inbound TCP port 1688
communication from resources\n in the VPC. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"

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            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Starts a product subscription for a user with the specified identity
provider.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related costs
will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status)
in Amazon Web Services Billing.
 For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n        monthly
charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/StartProductSubscription"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                 "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
```

```
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
        "type": "structure",
         "members": {
            "ProductUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the start product subscription
operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

  },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Stops a product subscription for a user with the specified identity
provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/StopProductSubscription"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required":
 {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
```

```
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
        "type": "structure",
        "members": {
            "ProductUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
                "traits": {
                    "smithy.api#documentation":
 "<p>Metadata that describes the start product subscription operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StringList": {
        "type": "list",
        "member": {
            "target": "smithy.api#String"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Subnet": {
        "type": "string",
        "traits": {
            "smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Subnets": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
            "message": {

             "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request was denied because of request throttling. Retry the
request.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
```

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates additional product configuration settings for the registered identity\n provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/UpdateIdentityProviderSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},

"UpdateSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings. You can\n update any combination of settings in a single operation such as the: \n \n \n Subnets which you want to add to provision VPC endpoints. \n \n \n Subnets which you want to remove the VPC endpoints from. \n \n \n Security group ID which permits traffic to the VPC endpoints. \n \n ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
"type": "structure",
"members": {
"AddSubnets": {

"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets in which License Manager will create a VPC endpoint for products that\n require connectivity to activation servers. ",
"smithy.api#required": {}
}
},
"RemoveSubnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets to remove. ",
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID

that allows inbound TCP port 1688 communication between resources in\n your VPC and the VPC endpoints for activation servers. "
}
}
},
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings such as\n the subnets to provision VPC endpoints. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " A parameter is not valid. ",
"smithy.api#error": "client"
}
}
}
}
{
"smithy": "2.0",
"metadata": {
"suppressions": [
{
"id": "HttpMethodSemantics",
"namespace": "*"
},
{
"id": "HttpResponseCodeSemantics",
"namespace": "*"
},
{
"id": "PaginatedTrait",
"namespace": "*"
},
{
"id": "HttpHeaderTrait",
"namespace": "*"
},
{
"id": "HttpUriConflict",
"namespace": "*"
},

```
        {
          "id": "Service",
          "namespace": "*"
        }
      ]
    },
    "shapes": {
      "com.amazonaws.licensemanager#AWSLicenseManager": {
        "type": "service",
        "version": "2018-08-01",
        "operations": [
          {
            "target": "com.amazonaws.licensemanager#AcceptGrant"
          },

 {
            "target": "com.amazonaws.licensemanager#CheckInLicense"
          },
          {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
          },
          {
            "target": "com.amazonaws.licensemanager#CheckoutLicense"
          },
          {
            "target": "com.amazonaws.licensemanager#CreateGrant"
          },
          {
            "target": "com.amazonaws.licensemanager#CreateGrantVersion"
          },
          {
            "target": "com.amazonaws.licensemanager#CreateLicense"
          },
          {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
          },
          {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
          },
          {
            "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
           },
          {
            "target": "com.amazonaws.licensemanager#CreateLicenseVersion"
          },
          {
            "target": "com.amazonaws.licensemanager#CreateToken"
          },
```

```
    {
      "target": "com.amazonaws.licensemanager#DeleteGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteToken"
    },
    {
      "target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

  },
    {
      "target": "com.amazonaws.licensemanager#GetAccessToken"
    },
    {
      "target": "com.amazonaws.licensemanager#GetGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseUsage"
    },
    {
      "target": "com.amazonaws.licensemanager#GetServiceSettings"
    },
    {
      "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#ListDistributedGrants"
```

},
{
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
"target": "com.amazonaws.licensemanager#ListLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

"target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{
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"target": "com.amazonaws.licensemanager#ListReceivedLicenses"
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"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
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"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
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"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
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"target": "com.amazonaws.licensemanager#UpdateServiceSettings"
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"traits": {
"aws.api#service": {
"sdkId": "License Manager",
"arnNamespace": "license-manager",
"cloudFormationName": "LicenseManager",
"cloudTrailEventSource": "licensemanager.amazonaws.com",
"endpointPrefix": "license-manager"
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"aws.auth#sigv4": {
"name": "license-manager"
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"aws.protocols#awsJson1_1": {},
"smithy.api#documentation": " License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers. ",
"smithy.api#title": "AWS License Manager",
"smithy.api#xmlNamespace": {
"uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
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"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
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"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
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"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
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"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
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"Endpoint": {
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"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
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"argv": [
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"ref": "Endpoint"
}
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"fn": "booleanEquals",
"argv": [
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"ref": "UseFIPS"
},
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        "type": "error"
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        "type": "error"
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        "conditions": [],
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                "ref": "Endpoint"
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        },
        "type": "endpoint"
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        "argv": [
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            }
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  "rules": [
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"argv": [
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"type": "endpoint"
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"error": "FIPS and DualStack are enabled, but this partition does not support one or both",
"type": "error"
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              "argv": [
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          ]
        }
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            "properties": {},
            "headers": {}
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          "type": "endpoint"
        }
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partition does not support FIPS",
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                                                "ref": "PartitionResult"
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        "type": "error"
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        "headers": {}
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    "type": "endpoint"
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    "type": "error"
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                }
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            "params": {
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                "UseFIPS": false,
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      "params": {
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        "UseFIPS": false,
        "UseDualStack": false
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      "params": {
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        "UseFIPS": false,
        "UseDualStack": false
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      "documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-northeast-2.amazonaws.com"
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      "params": {
        "Region": "ap-northeast-2",
        "UseFIPS": false,
        "UseDualStack": false
      }
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      "documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-northeast-3.amazonaws.com"
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                "UseDualStack": false
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            "expect": {
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            "params": {
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                "UseFIPS": false,
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"expect": {
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"params": {
"Region": "ap-southeast-3",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region ca-central-1 with FIPS disabled and DualStack disabled",
"expect": {
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"url": "https://license-manager.ca-central-1.amazonaws.com"
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"params": {
"Region": "ca-central-1",
"UseFIPS": false,
"UseDualStack": false
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"params": {
"Region": "eu-central-1",
"UseFIPS": false,
"UseDualStack": false
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disabled and DualStack disabled",
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              "UseDualStack": false
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            "documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
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            "params": {
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              "UseDualStack": false
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          "params": {
            "Region": "eu-west-3",
            "UseFIPS": false,

"UseDualStack": false
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          "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
          "expect": {
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            }
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          "params": {
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            "UseFIPS": false,
            "UseDualStack": false
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          "expect": {
            "endpoint": {
              "url": "https://license-manager.sa-east-1.amazonaws.com"
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          "params": {
            "Region": "sa-east-1",
            "UseFIPS": false,
            "UseDualStack": false
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          "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.us-east-1.amazonaws.com"
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          "params": {
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"UseDualStack": false
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"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
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"UseFIPS": false,
"UseDualStack": false
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"params": {
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"UseDualStack": false
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"documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
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"params": {

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            }
        },
        "params": {
            "Region": "us-east-1",
            "UseFIPS": true,

            "UseDualStack": true
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            }
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            "Region": "us-east-1",
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            "UseDualStack": true
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"https://license-manager.cn-north-1.amazonaws.com.cn"
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            "UseDualStack": false
        }
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    {
        "documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
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"params": {
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"UseFIPS": false,
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{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
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"params": {
"Region": "cn-north-1",
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{
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"UseDualStack": false
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"params": {
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"UseDualStack": true
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{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
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"url": "https://license-manager.us-gov-east-1.amazonaws.com"
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"params": {
"Region": "us-gov-east-1",
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"UseDualStack": false
}
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"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
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"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false
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"documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
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"endpoint": {
"url": "https://license-manager.us-gov-west-1.amazonaws.com"
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"params": {
"Region": "us-gov-west-1",
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"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
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"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
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},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false

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            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": true,
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            }
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            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
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                    "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
                }
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": true,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
                "error": "DualStack is enabled
but this partition does not support DualStack"
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
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            "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
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                }
            },
            "params": {
                "Region": "us-isob-east-1",
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"UseDualStack": false
}
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
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"url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
}
},

"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

"expect": {
"endpoint": {
"url": "https://example.com"
}
},

"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,

"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error":
"Invalid Configuration: Dualstack and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true,
"Endpoint": "https://example.com"
}
},
{

"documentation": "Missing region",
"expect": {
"error": "Invalid Configuration: Missing Region"
}
}
],
"version": "1.0"
}
}
},
"com.amazonaws.licensemanager#AcceptGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#AcceptGrantRequest"

},
"output": {
"target": "com.amazonaws.licensemanager#AcceptGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"

}
],
"traits": {
"smithy.api#documentation": " Accepts the specified grant. "
}
},
"com.amazonaws.licensemanager#AcceptGrantRequest": {

"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#AcceptGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant
ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#AccessDeniedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},

"traits": {
"aws.protocols#awsQueryError": {

"code": "ServiceAccessDenied",
"httpResponseCode": 401
},
"smithy.api#documentation": " Access to resource denied. ",
"smithy.api#error": "client",
"smithy.api#httpError": 401
}
},
"com.amazonaws.licensemanager#ActivationOverrideBehavior": {
"type": "enum",
"members": {
"DISTRIBUTED_GRANTS_ONLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
}
},
"ALL_GRANTS_PERMITTED_BY_ISSUER": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
}
}
}
},
"com.amazonaws.licensemanager#AllowedOperation": {

"type": "enum",
"members": {
"CREATE_GRANT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CreateGrant"
}
},
"CHECKOUT_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckoutLicense"
}
},
"CHECKOUT_BORROW_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckoutBorrowLicense"

```
            }
          },
          "CHECK_IN_LICENSE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CheckInLicense"
            }
          },
          "EXTEND_CONSUMPTION_LICENSE":
{
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ExtendConsumptionLicense"
            }
          },
          "LIST_PURCHASED_LICENSES": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ListPurchasedLicenses"
            }
          },
          "CREATE_TOKEN": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CreateToken"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#AllowedOperationList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#AllowedOperation"
        },
        "traits": {
          "smithy.api#length": {
            "min": 1,
            "max":
7
          }
        }
      },
      "com.amazonaws.licensemanager#Arn": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 0,
            "max": 2048
```

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            },
            "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
        }
    },
    "com.amazonaws.licensemanager#ArnList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Arn"
        }
    },
    "com.amazonaws.licensemanager#AuthorizationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError":
 {
                "code": "AuthorizationFailure",
                "httpResponseCode": 403
            },
            "smithy.api#documentation": "<p>The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n        policy associated with this account.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 403
        }
    },
    "com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
        "type": "structure",
        "members": {
            "LastRunTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes automated discovery.</p>"
        }
    },

  "com.amazonaws.licensemanager#Boolean": {
        "type": "boolean",
        "traits": {
```

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            "smithy.api#default": false
        }
    },
    "com.amazonaws.licensemanager#BorrowConfiguration": {
        "type": "structure",
        "members": {
            "AllowEarlyCheckIn": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether early check-ins are allowed.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxTimeToLiveInMinutes": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
                    "smithy.api#required": {}
                }
            }

},
        "traits": {
            "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#BoxBoolean": {
        "type": "boolean"
    },
    "com.amazonaws.licensemanager#BoxInteger": {
        "type": "integer"
    },
    "com.amazonaws.licensemanager#BoxLong": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#CheckInLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
```

"target": "com.amazonaws.licensemanager#AuthorizationException"

},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks in the specified license. Check in a license when it is no longer in use. "
}
},
"com.amazonaws.licensemanager#CheckInLicenseRequest":
{
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
}
},
"traits": {
"smithy.api#input": {}
}

```
    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicense":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members":
 {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
                    "smithy.api#required": {}
                }
            },
            "DigitalSignatureMethod": {
                "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
                "traits": {
                    "smithy.api#documentation": "<p>Digital signature method. The possible
 value is JSON Web Signature (JWS) algorithm PS384.\n        For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>",
                    "smithy.api#required": {}
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
```

```
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation":
"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>"
                }
            },
            "EntitlementsAllowed":
{
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "SignedToken": {
                "target": "com.amazonaws.licensemanager#SignedToken",
                "traits": {
                    "smithy.api#documentation": "<p>Signed token.</p>"
                }
            },
```

"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},

```
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license.</p>\n        <note>\n            <p>If the
account that created the license is the same that is performing the check out, you must\n            specify the account
as the beneficiary.</p>\n        </note>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutLicenseRequest": {
        "type": "structure",
        "members": {
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product
 SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "CheckoutType": {
                "target": "com.amazonaws.licensemanager#CheckoutType",
                "traits": {
                    "smithy.api#documentation": "<p>Checkout type.</p>",
                    "smithy.api#required": {}
                }
            },
            "KeyFingerprint": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Key fingerprint identifying the license.</p>",
                    "smithy.api#required": {}
                }
            },
```

"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. ",

"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
"type": "structure",
"members": {
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}

```
            },
            "EntitlementsAllowed": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
                }
            },
             "SignedToken": {
                "target": "com.amazonaws.licensemanager#SignedToken",
                "traits": {
                    "smithy.api#documentation": "<p>Signed token.</p>"
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "IssuedAt": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
                }
            },
            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and
time at which the license checkout expires.</p>"
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutType": {
        "type": "enum",
        "members": {
            "PROVISIONAL": {
                "target": "smithy.api#Unit",
```

"traits": {
"smithy.api#enumValue": "PROVISIONAL"
}
},
"PERPETUAL": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PERPETUAL"
}
}
}
},
"com.amazonaws.licensemanager#ClientRequestToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 36
}
}
},
"com.amazonaws.licensemanager#ClientToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#ConflictException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ConflictException",
"httpResponseCode":
409
},
"smithy.api#documentation": " There was a conflict processing the request. Try your request again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 409

```
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
                }
            },
            "ConsumedLicenses": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
                }
            }
        },

"traits": {
            "smithy.api#documentation": "<p>Details about license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
        }
    },
    "com.amazonaws.licensemanager#ConsumptionConfiguration": {
        "type": "structure",
        "members": {
            "RenewType": {
                "target": "com.amazonaws.licensemanager#RenewType",
                "traits": {
                    "smithy.api#documentation": "<p>Renewal frequency.</p>"
                }
            },
            "ProvisionalConfiguration": {
                "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
                 }
            },
            "BorrowConfiguration": {
                "target": "com.amazonaws.licensemanager#BorrowConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
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```
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of
license\n        entitlements with a specific Amazon Web Services account, an organization, or an\n
organizational unit (OU). For more
 information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantRequest": {
```

"type": "structure",
"members": {
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}

}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Principals": {
"target": "com.amazonaws.licensemanager#PrincipalArnList",
"traits": {
"smithy.api#documentation": " The grant principals. You can specify one of the following as an Amazon Resource Name\n (ARN): \n \n \n An Amazon Web Services account, which includes only the account specified. \n \n \n \n \n An organizational unit (OU), which includes all accounts in the OU. \n \n \n \n
\n An organization, which will include all accounts across your organization. \n \n ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {

```
                "smithy.api#documentation": "<p>Allowed operations for the grant.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},

"com.amazonaws.licensemanager#CreateGrantResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateGrantVersion":
{
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information, see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",

    "smithy.api#required": {}
                }
            },
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

"smithy.api#documentation": " Grant name. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the grant. "
}
},
"Options": {
"target": "com.amazonaws.licensemanager#Options",
"traits": {
"smithy.api#documentation": " The options specified for the grant. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {

"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New version of the grant. "
}
}
},
"traits":
{
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],

"traits": {
"smithy.api#documentation": " Creates a license. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Creates a license configuration. \n A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a \n license must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. ",

"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension used to track the license inventory. ",
"smithy.api#required": {}
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows. \n \n \n \n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n <code>licenseAffinityToHost</code> |\n <code>maximumCores</code> | <code>minimumCores</code>\n \n \n \n \n <code>Instances</code> dimension: <code>allowedTenancy</code> | \n <code>maximumCores</code> | <code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n \n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n <code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code>\n \n \n \n \n <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n <code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n The unit for

<code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>. "
}
},

"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the license configuration. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
"type": "operation",

"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a new license conversion task. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {

"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource you are converting the license type for. ",
"smithy.api#required": {}
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting from. \n\n For the structure of the source license, see Convert a license type using the CLI in

the License Manager User Guide. ",
"smithy.api#required": {}
}
},
"DestinationLicenseContext":
{
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting to. For the structure of the destination license, see Convert a license type using the CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

"traits": {
"smithy.api#documentation": " The ID of the created license type conversion task. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a report generator. "
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"ReportGeneratorName":
{
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types an be generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}

}
},

"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " Defines the type of license configuration the report generator tracks. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " The Amazon Resource Name (ARN) of the new report generator. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseRequest": {
"type": "structure",
"members": {
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. ",
"smithy.api#required": {}
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits": {
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region for the license. ",
"smithy.api#required": {}

}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
},

```
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        },
        "Version": {
             "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target":
"com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product name.</p>",
                    "smithy.api#required": {}
                }
            },
            "Issuer": {
                "target": "com.amazonaws.licensemanager#Issuer",
```

"traits":
{
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},

"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. ",

"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New version of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
}
},
"traits": {
"smithy.api#output":

{}
}
},
"com.amazonaws.licensemanager#CreateToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},

{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a long-lived token. \n A refresh token is a JWT token used to get an access token. With an access token,\n you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n call License Manager to manage the specified license. "
}
},
"com.amazonaws.licensemanager#CreateTokenRequest": {
"type": "structure",
"members": {
"LicenseArn": {

"target": "com.amazonaws.licensemanager#Arn",
"traits":
{
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n JWT token. ",
"smithy.api#required": {}
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n License Manager does not check whether the roles are in use. "
}
},
"ExpirationInDays": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Token expiration, in days, counted from token creation. The default is 365 days. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller to be included in the JWT token. The data is mapped\n to the amr claim of the JWT token. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Idempotency token, valid for 10 minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateTokenResponse": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",

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        "traits": {
            "smithy.api#documentation": "<p>Token ID.</p>"
        }
    },
    "TokenType": {
        "target": "com.amazonaws.licensemanager#TokenType",
        "traits": {
            "smithy.api#documentation": "<p>Token type.</p>"
        }
    },
    "Token": {
        "target": "com.amazonaws.licensemanager#TokenString",
        "traits": {
            "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
        }
    }
  },
  "traits": {
    "smithy.api#output": {}
  }
},
"com.amazonaws.licensemanager#DateTime": {
  "type": "timestamp"
},
"com.amazonaws.licensemanager#DatetimeRange": {
  "type": "structure",
  "members": {
    "Begin": {
        "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
            "smithy.api#documentation": "<p>Start of the time range.</p>",
            "smithy.api#required": {}
        }
    },
    "End": {
        "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
            "smithy.api#documentation": "<p>End of the time range.</p>"
        }
    }
  },
  "traits": {
    "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
  }
},
"com.amazonaws.licensemanager#DeleteGrant": {
  "type": "operation",
  "input": {
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"target": "com.amazonaws.licensemanager#DeleteGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes
the specified grant. "
}
},
"com.amazonaws.licensemanager#DeleteGrantRequest": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " The Status reason for the delete request. "
}

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            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the
grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
```

```
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#RedirectException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Deletes the specified license.</p>"
        }
      },
      "com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
        },

      "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
```

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            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license configuration.</p>\n        <p>You cannot
delete a license configuration that is in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
        "type": "structure",
        "members":
{
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
         },
        "errors": [
            {
```

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified report generator. \n This action deletes the report generator, which stops it from generating future reports.\n The action cannot be reversed. It has no effect on the previous reports from this generator. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to be deleted. ",
"smithy.api#required": {}
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {

"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. ",
"smithy.api#required":
{}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseResponse": {
"type": "structure",
"members": {
"Status": {
"target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"DeletionDate": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date when the license is deleted. "
}
}
},
"traits": {
"smithy.api#output": {}
}

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    },
    "com.amazonaws.licensemanager#DeleteToken": {
      "type": "operation",
       "input": {
        "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },

    {
          "target": "com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
      }
    },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
      "type": "structure",
      "members": {
        "TokenId": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token ID.</p>",
            "smithy.api#required": {}
          }
        }
```

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        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}

      }
    },
    "com.amazonaws.licensemanager#DigitalSignatureMethod": {
        "type": "enum",
        "members": {
            "JWT_PS384": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "JWT_PS384"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#Entitlement": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement name.</p>",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement resource. Use only
if the unit is None.</p>"
                }
            },
            "MaxCount": {
                "target": "com.amazonaws.licensemanager#Long",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
                }
            },
            "Overage": {
```

"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether overages are allowed. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementUnit",
"traits": {
"smithy.api#documentation": " Entitlement unit. ",
"smithy.api#required": {}
}
},
"AllowCheckIn": {
"target":
"com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether check-ins are allowed. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a resource entitled for use with a license. "
}
},
"com.amazonaws.licensemanager#EntitlementData": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement
data value. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {
"smithy.api#documentation": " Entitlement data unit. ",
"smithy.api#required": {}
}
}

```
        },
        "traits": {
            "smithy.api#documentation": "<p>Data associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementDataList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementData"
        }
    },
    "com.amazonaws.licensemanager#EntitlementDataUnit": {
        "type": "enum",
        "members": {
            "COUNT": {
                "target": "smithy.api#Unit",
                "traits": {

"smithy.api#enumValue": "Count"
                }
            },
            "NONE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "None"
                }
            },
            "SECONDS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Seconds"
                }
            },
            "MICROSECONDS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Microseconds"
                }
            },
            "MILLISECONDS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Milliseconds"
                }
            },
            "BYTES": {
                "target": "smithy.api#Unit",
```

```
            "traits": {
                "smithy.api#enumValue": "Bytes"
            }
        },
        "KILOBYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes"
            }
        },
        "MEGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes"
            }
        },
        "GIGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabytes"
            }
        },
        "TERABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabytes"
            }
        },
        "BITS":
{
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bits"
            }
        },
        "KILOBITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobits"
            }
        },
        "MEGABITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabits"
            }
        },
        "GIGABITS": {
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"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"

}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"
}
},
"KILOBYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes/Second"
}
},
"MEGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes/Second"
}
},
"GIGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes/Second"
}
},
"TERABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes/Second"
}
},

"BITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits/Second"
}
},
"KILOBITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits/Second"
}
},
"MEGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue":
"Megabits/Second"
}
},
"GIGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits/Second"
}
},
"TERABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits/Second"
}
},
"COUNT_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count/Second"
}
}
}
},
"com.amazonaws.licensemanager#EntitlementList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Entitlement"
}
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
"type": "structure",

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        "members": {
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 400
        }
      },
      "com.amazonaws.licensemanager#EntitlementUnit": {
        "type": "enum",
        "members": {
          "COUNT": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Count"
            }
          },
          "NONE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "None"
            }
          },
          "SECONDS":
{
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Seconds"
            }
          },
          "MICROSECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Microseconds"
            }
          },
          "MILLISECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Milliseconds"
            }
          },
          "BYTES": {
            "target": "smithy.api#Unit",
            "traits": {
```

"smithy.api#enumValue": "Bytes"
}
},
"KILOBYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes"
}
},
"MEGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes"
}
},
"GIGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes"
}
},
"TERABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"
}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target":
"smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"
}
},
"KILOBYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes/Second"
}
},
"MEGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes/Second"
}
},
"GIGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes/Second"
}
},
"TERABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Terabytes/Second"
}
},

```
        "BITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bits/Second"
            }
        },
        "KILOBITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobits/Second"
            }
        },
        "MEGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabits/Second"
            }
        },
        "GIGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabits/Second"
            }
        },

    "TERABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits/Second"
            }
        },
        "COUNT_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Count/Second"
            }
        }
    }
},
"com.amazonaws.licensemanager#EntitlementUsage": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                "smithy.api#required": {}
            }
```

```
            },
            "ConsumedValue": {
                "target": "com.amazonaws.licensemanager#String",

            "traits": {
                    "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxCount": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
                }
            },
            "Unit": {
                "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementUsageList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}

      }
            },
            "DryRun": {
                "target": "com.amazonaws.licensemanager#Boolean",
                "traits": {
                    "smithy.api#default": false,
                    "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
        "type": "structure",
        "members": {
```

```
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>"
                }
            },

            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#FailedDependencyException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            },
            "ErrorCode": {
                "target": "com.amazonaws.licensemanager#String"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "FailedDependency",
                "httpResponseCode": 424
            },
            "smithy.api#documentation":
"<p>A dependency required to run the API is missing.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 424
        }
    },
    "com.amazonaws.licensemanager#Filter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#FilterName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the filter. Filter names are case-sensitive.</p>"
                }
            },
```

"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " The value of the filter, which is case-sensitive. You can only specify one value for the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter name and value pair that is used to return more specific results from a\n describe operation. Filters can be used to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FilterLimitExceeded",
"httpResponseCode": 400
},
"smithy.api#documentation": " The request uses too many filters or too many filter values. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter"
}
},
"com.amazonaws.licensemanager#FilterName": {
"type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
"type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#FilterValue",
"traits": {

"smithy.api#xmlName": "item"
}
}
},
"com.amazonaws.licensemanager#Filters": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter",
"traits": {
"smithy.api#xmlName": "item"
}
}
},
"com.amazonaws.licensemanager#GetAccessToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access
tokens\n are valid for one hour. "
}
},
"com.amazonaws.licensemanager#GetAccessTokenRequest": {
"type": "structure",
"members": {
"Token": {

"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token, encoded as a JWT token. ",
"smithy.api#required": {}
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Token properties to validate against those present in the JWT token. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetAccessTokenResponse": {
"type": "structure",
"members": {
"AccessToken": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Temporary access token. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"

```
    },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
```

"smithy.api#documentation": " Grant details. "
}
}
},
"traits": {

"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"

},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license configuration. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
}
},
"traits":
{
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Unique ID for the license configuration. "

```
    }
},
"LicenseConfigurationArn": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    }
},
"Name": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
        "smithy.api#documentation": "<p>Name of the license configuration.</p>"
     }
},
"Description": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
        "smithy.api#documentation": "<p>Description of the license configuration.</p>"
    }
},
"LicenseCountingType": {
    "target": "com.amazonaws.licensemanager#LicenseCountingType",
    "traits": {
        "smithy.api#documentation": "<p>Dimension for which the licenses are counted.</p>"
    }
},
"LicenseRules": {
    "target": "com.amazonaws.licensemanager#StringList",
    "traits": {
        "smithy.api#documentation": "<p>License rules.</p>"
    }
},
"LicenseCount": {
    "target": "com.amazonaws.licensemanager#BoxLong",

   "traits": {
        "smithy.api#documentation": "<p>Number of available licenses.</p>"
    }
},
"LicenseCountHardLimit": {
    "target": "com.amazonaws.licensemanager#BoxBoolean",
    "traits": {
        "smithy.api#documentation": "<p>Sets the number of available licenses as a hard limit.</p>"
    }
},
"ConsumedLicenses": {
    "target": "com.amazonaws.licensemanager#BoxLong",
    "traits": {
```

"smithy.api#documentation": " Number of licenses assigned to resources. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License configuration status. "
}

},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",

"traits": {
"smithy.api#documentation": " When
true, disassociates a resource when software is uninstalled. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified license type conversion task. "
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information
on. ",

"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted to. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " Status of the license type conversion task. "
}

```
            },

  "StartTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
                }
            },
            "LicenseConversionTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
                }
            },
            "EndTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator":
 {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
                    "smithy.api#required":
 {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {
            "ReportGenerator": {
                "target": "com.amazonaws.licensemanager#ReportGenerator",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
```

```
    },
    "com.amazonaws.licensemanager#GetLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {

"smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseResponse": {
        "type": "structure",
        "members": {
            "License": {
                "target": "com.amazonaws.licensemanager#License",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },

  "com.amazonaws.licensemanager#GetLicenseUsage": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
        },
        "errors": [
            {
```

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the usage of the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseUsageRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseUsageResponse": {
"type": "structure",
"members": {
"LicenseUsage": {
"target":
"com.amazonaws.licensemanager#LicenseUsage",
"traits": {
"smithy.api#documentation": " License usage details. "
}
}

```
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
discovery data,\n         and so on.</p>"
```

}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " SNS topic configured to receive notifications from License Manager. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Indicates whether Organizations is integrated with License Manager for\n cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether cross-account discovery is enabled. "
}

},
"LicenseManagerResourceShareArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource share. The License Manager management account \n provides member accounts with access to this share. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#Grant": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"ParentArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Parent ARN. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. ",
"smithy.api#required": {}
}
},
"GranteePrincipalArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {

"smithy.api#documentation": " The grantee principal ARN. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},

```
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Granted operations.</p>",
                    "smithy.api#required": {}
                }
            },
            "Options": {
                "target": "com.amazonaws.licensemanager#Options",
                "traits": {
                    "smithy.api#documentation": "<p>The options specified for the grant.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
"<p>Describes a grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#GrantList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Grant"
        }
    },
    "com.amazonaws.licensemanager#GrantStatus": {
        "type": "enum",
        "members": {
            "PENDING_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_WORKFLOW"
                }
            },
            "PENDING_ACCEPT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_ACCEPT"
                }
            },
            "REJECTED": {
```

"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REJECTED"

}
},
"ACTIVE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ACTIVE"
}
},
"FAILED_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "FAILED_WORKFLOW"
}
},
"DELETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DELETED"
}
},
"PENDING_DELETE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_DELETE"
}
},
"DISABLED": {
"target": "smithy.api#Unit",
"traits":
{
"smithy.api#enumValue": "DISABLED"
}
},
"WORKFLOW_COMPLETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "WORKFLOW_COMPLETED"
}
}
}
},
"com.amazonaws.licensemanager#GrantedLicense": {
"type": "structure",
"members": {

"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. "
}

},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " Granted license issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the granted license. "

}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " Granted license status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the granted license is valid, in

ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Granted license beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Granted license metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Creation time of the granted license. "

}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Version of the granted license. "
}
},
"ReceivedMetadata": {
"target": "com.amazonaws.licensemanager#ReceivedMetadata",
"traits": {
"smithy.api#documentation": " Granted license received metadata. "
}
}
},
"traits": {

"smithy.api#documentation": " Describes a license that is granted to a grantee. "
}
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#GrantedLicense"
}
},
"com.amazonaws.licensemanager#ISO8601DateTime":
{
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
}
},
"com.amazonaws.licensemanager#Integer": {
"type": "integer"
},
"com.amazonaws.licensemanager#InvalidParameterValueException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidParameterValueProvided",
"httpResponseCode": 400
},
"smithy.api#documentation":
" One or more parameter values are not valid. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#InvalidResourceStateException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}

```
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidResourceState",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n        <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },

    "com.amazonaws.licensemanager#InventoryFilter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the filter.</p>",
                    "smithy.api#required": {}
                }
            },
            "Condition": {
                "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
                "traits": {
                    "smithy.api#documentation": "<p>Condition of the filter.</p>",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Value of the filter.</p>"
                }
            }

    },
        "traits": {
            "smithy.api#documentation": "<p>An inventory filter.</p>"
        }
    },
    "com.amazonaws.licensemanager#InventoryFilterCondition": {
        "type": "enum",
        "members": {
            "EQUALS": {
                "target": "smithy.api#Unit",
```

"traits": {
"smithy.api#enumValue": "EQUALS"
}
},
"NOT_EQUALS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "NOT_EQUALS"
}
},
"BEGINS_WITH": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "BEGINS_WITH"
}
},
"CONTAINS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CONTAINS"
}
}
}
},
"com.amazonaws.licensemanager#InventoryFilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#InventoryFilter"
}
},
"com.amazonaws.licensemanager#Issuer": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. ",
"smithy.api#required": {}
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage
of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
}

```
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about the issuer of a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#IssuerDetails": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>"
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS
key must have a key usage of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing
algorithm.</p>"
                }
            },
            "KeyFingerprint": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#License": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {

            "smithy.api#documentation": "<p>License name.</p>"
                }
```

},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " License issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Home Region of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"Entitlements": {

"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " License metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License
creation time. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#documentation": " Software license that is managed in License Manager. "
}
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
"type": "structure",
"members": {
"LicenseConfigurationId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Unique ID of the license configuration. "
}
},
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "

```
            }
        },
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the license configuration.</p>"
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
                "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
            }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules.</p>"
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Number of available licenses as a hard limit.</p>"
            }
        },
        "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
```

"smithy.api#documentation": " Number of licenses consumed. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the license configuration. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the license configuration's owner. "

}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for licenses consumed by various resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {

"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "

```
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
        "type": "structure",
        "members": {
            "ResourceArn":
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of server resource.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the resource
consuming licenses.</p>"
                }
            },
            "AssociationTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {

    "smithy.api#documentation": "<p>Time when the license configuration was associated with the resource.</p>"
                }
            },
            "AmiAssociationScope": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes an association with a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
```

```
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
        "type": "enum",
        "members":
{
            "AVAILABLE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "AVAILABLE"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DISABLED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits":
{
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceStatus": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Status of the resource.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
                }
            },
```

"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was initially associated with the resource. "
}
},

"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
}
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfiguration"
}
},
"com.amazonaws.licensemanager#LicenseConversionContext": {

"type": "structure",
"members": {
"UsageOperation": {
"target": "com.amazonaws.licensemanager#UsageOperation",
"traits": {
"smithy.api#documentation": " The Usage operation value that corresponds to the license type you are converting your resource from. For more information about which platforms correspond to which usage operation values see Sample data: usage operation by platform\n \n "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "

```
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTask": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {

     "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the license type conversion task.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource associated
with the license type\n        conversion task.</p>"
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license type this conversion task converted
from.</p>"
                }
            },
            "DestinationLicenseContext": {
                "target":
 "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license type this conversion task converted
to.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
                "traits": {
                    "smithy.api#documentation": "<p>The status of the conversion task.</p>"
                }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
                }
            },
            "StartTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
```

```
                "traits": {
                    "smithy.api#documentation":
 "<p>The time the conversion task was started at.</p>"
                }
            },
            "LicenseConversionTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>The time the usage operation value of the resource was
changed.</p>"
                }
            },
            "EndTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTaskId": {
        "type": "string",
        "traits": {

          "smithy.api#length": {
                "min": 0,
                "max": 50
            },
            "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
        "type": "enum",
        "members": {
            "IN_PROGRESS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "IN_PROGRESS"
                }
            },
            "SUCCEEDED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "SUCCEEDED"
                }
```

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            },
            "FAILED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "FAILED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTasks":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTask"
        }
    },
    "com.amazonaws.licensemanager#LicenseCountingType": {
        "type": "enum",
        "members": {
            "VCPU": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "vCPU"
                }
            },
            "INSTANCE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Instance"
                }
            },
            "CORE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Core"
                }
            },
            "SOCKET": {
                "target": "smithy.api#Unit",
                 "traits": {
                    "smithy.api#enumValue": "Socket"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#LicenseDeletionStatus": {
        "type": "enum",
        "members": {
```

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        "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {

    "type": "structure",
    "members": {
        "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
        },
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Resource type.</p>"
            }
        },
        "ErrorMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Error message.</p>"
            }
        },
        "FailureTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {

"smithy.api#documentation": "<p>Failure time.</p>"
            }
```

```
            },
            "OperationName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the operation.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the
resource.</p>"
                }
            },
            "OperationRequestedBy": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The requester is \"License Manager Automated Discovery\".</p>"
                }
            },
            "MetadataList": {

                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Reserved.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes the failure of a license operation.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseOperationFailureList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailure"
        }
    },
    "com.amazonaws.licensemanager#LicenseSpecification": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
```

"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseSpecification"
}
},
"com.amazonaws.licensemanager#LicenseStatus": {
"type": "enum",
"members": {
"AVAILABLE": {
"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "AVAILABLE"
}
},
"PENDING_AVAILABLE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_AVAILABLE"
}
},
"DEACTIVATED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DEACTIVATED"
}
},
"SUSPENDED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SUSPENDED"
}

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        },
        "EXPIRED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EXPIRED"
            }
        },

     "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseUsage": {
    "type": "structure",
    "members": {
        "EntitlementUsages": {
            "target": "com.amazonaws.licensemanager#EntitlementUsageList",
            "traits": {
                "smithy.api#documentation": "<p>License entitlement usages.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes the entitlement usage associated with a license.</p>"

    }
},
"com.amazonaws.licensemanager#LicenseUsageException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "LicenseUsageFailure",
            "httpResponseCode": 412
```

```
            },
            "smithy.api#documentation": "<p>You do not have enough licenses available to support a new resource
launch.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 412
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
        },
        "output": {

    "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the resource associations for the
 specified license configuration.</p>\n        <p>Resource associations need not consume licenses from a license
configuration. \n        For example, an AMI or a stopped instance might not consume a license (depending on \n
the license rules).</p>"
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results
to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationAssociations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license
configuration. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {

"target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants distributed for the specified license. "
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n

```
<li>\n <p>\n <code>GranteePrincipalARN</code>\n </p>\n </li>\n
<li>\n <p>\n <code>ProductSKU</code>\n </p>\n </li>\n <li>\n
<p>\n <code>LicenseIssuerName</code>\n
</p>\n </li>\n </ul>"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": "<p>Token for the next set of results.</p>"
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",

"traits": {
"smithy.api#documentation": "<p>Distributed grant details.</p>"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": "<p>Token for the next set of results.</p>"
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
```

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
        },
        "errors": [
            {

"target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configuration operations that failed.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
```

```
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse":
{
        "type": "structure",
        "members": {
            "LicenseOperationFailureList": {
                "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
                "traits": {
                    "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurations": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },

    "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
```

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            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations
 for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next
 set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n                Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n                Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n                <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n                Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n
    </li>\n            <li>\n                <p>\n                <code>usagelimitExceeded</code> - A Boolean value that
indicates whether the available licenses have been exceeded. \n                Logical operators are
```

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<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n         </ul>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurations": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurations",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",

         "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasks": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
```

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license type conversion tasks for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
"type": "structure",
"members": {
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " \n Filters to scope the results. Valid filters are <code>ResourceArns</code> and <code>Status</code>.\n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
"type": "structure",
"members": {
"LicenseConversionTasks": {
"target": "com.amazonaws.licensemanager#LicenseConversionTasks",
"traits": {
"smithy.api#documentation": " Information about the license configuration tasks for your account. "
}
},

```
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the report generators for your account.</p>"
```

```
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest":
{
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:
</p>\n        <ul>\n            <li>\n                <p>\n                <code>LicenseConfigurationArn</code>\n
</p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits":
{
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
            "ReportGenerators": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorList",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
```

```
            }
            },
            "traits": {
                "smithy.api#output": {}
            }
        },
        "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
            "type": "operation",
            "input": {
                "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
            },
            "output": {
                "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
            },
            "errors": [
                {
                    "target": "com.amazonaws.licensemanager#AccessDeniedException"
                },
                {
                    "target": "com.amazonaws.licensemanager#AuthorizationException"
                },
                {
                    "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
                },
                {
                    "target": "com.amazonaws.licensemanager#RateLimitExceededException"
                 },
                {
                    "target": "com.amazonaws.licensemanager#ServerInternalException"
                }
            ],
            "traits": {
                "smithy.api#documentation": "<p>Describes the license configurations for the specified resource.</p>"
            }
        },
        "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
            "type": "structure",
            "members": {
                "ResourceArn": {
                    "target": "com.amazonaws.licensemanager#String",
                    "traits": {
                        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a resource that has an
associated license configuration.</p>",
                        "smithy.api#required": {}
                    }
                },
                "MaxResults": {
                    "target": "com.amazonaws.licensemanager#BoxInteger",
```

"traits": {

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {
"LicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " License configurations associated with a resource. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

```
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
        "type": "structure",
        "members": {
            "Licenses": {
```

```
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
                "smithy.api#documentation": "<p>License details.</p>"
            }
        },

"NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
         },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the licenses for your account.</p>"
    }
```

```
    },
    "com.amazonaws.licensemanager#ListLicensesRequest": {
      "type": "structure",
      "members": {
        "LicenseArns": {
          "target": "com.amazonaws.licensemanager#ArnList",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
          }
        },

     "Filters": {
          "target": "com.amazonaws.licensemanager#FilterList",
          "traits": {
            "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n<ul>\n<li>\n<p>\n<code>Beneficiary</code>\n</p>\n
</li>\n<li>\n<p>\n<code>ProductSKU</code>\n</p>\n</li>\n
<li>\n<p>\n<code>Fingerprint</code>\n</p>\n</li>\n<li>\n
<p>\n<code>Status</code>\n</p>\n</li>\n</ul>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token
 for the next set of results.</p>"
          }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#MaxSize100",
          "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListLicensesResponse": {
      "type": "structure",
      "members": {
        "Licenses": {
          "target": "com.amazonaws.licensemanager#LicenseList",
          "traits": {
            "smithy.api#documentation": "<p>License details.</p>"
          }
        },
```

"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists grants that are received. Received grants are grants created while specifying the\n recipient as this Amazon Web Services account, your organization, or an organizational unit\n (OU) to which this member account belongs. "
}

```
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target":
"com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants received for all accounts in the organization.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the received license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Filters": {
```

"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n
\n \n \n <code>ParentArn</code>\n \n \n
\n \n <code>GranteePrincipalArn</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Lists the grants the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
"type": "structure",

"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranterAccountId</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Received grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists received licenses. "
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
{
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"

```
            },
            "output": {
                "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
            },
            "errors": [
                {
                    "target": "com.amazonaws.licensemanager#AccessDeniedException"
                },
                {
                    "target": "com.amazonaws.licensemanager#AuthorizationException"
                },
                {
                    "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
                },
                {
                    "target": "com.amazonaws.licensemanager#RateLimitExceededException"
                },
                {
                    "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
                },
                {

        "target": "com.amazonaws.licensemanager#ServerInternalException"
                },
                {
                    "target": "com.amazonaws.licensemanager#ValidationException"
                }
            ],
            "traits": {
                "smithy.api#documentation": "<p>Lists the licenses received for all accounts in the organization.</p>"
            }
        },
        "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
            "type": "structure",
            "members": {
                "Filters": {
                    "target": "com.amazonaws.licensemanager#FilterList",
                    "traits": {
                        "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>Beneficiary</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                <code>ProductSKU</code>\n
                </p>\n            </li>\n        </ul>"
                    }
                },
                "NextToken": {
                    "target": "com.amazonaws.licensemanager#String",
                    "traits": {
                        "smithy.api#documentation": "<p>Token for the next set of results.</p>"
```

```
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
        "type": "structure",
        "members": {
            "Licenses": {
                "target": "com.amazonaws.licensemanager#GrantedLicenseList",
                 "traits": {
                    "smithy.api#documentation": "<p>Lists the licenses the organization has received.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
        "type": "structure",
        "members": {
            "LicenseArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
                }
            },

             "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n    <ul>\n    <li>\n    <p>\n    <code>ProductSKU</code>\n    </p>\n
```

```
</li>\n <li>\n <p>\n <code>Status</code>\n </p>\n </li>\n
<li>\n <p>\n <code>Fingerprint</code>\n </p>\n </li>\n <li>\n
<p>\n <code>IssuerName</code>\n </p>\n </li>\n <li>\n <p>\n
<code>Beneficiary</code>\n </p>\n </li>\n </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#GrantedLicenseList",
            "traits": {
              "smithy.api#documentation": "<p>Received license details.</p>"
            }
          },

         "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListResourceInventory": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
```

```
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#FailedDependencyException"
        },
        {
            "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
    }
},
"com.amazonaws.licensemanager#ListResourceInventoryRequest": {
    "type": "structure",
    "members": {
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "Filters": {
            "target": "com.amazonaws.licensemanager#InventoryFilterList",
```

"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n
\n \n \n <code>application_name</code> - The name of the application. \n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n
\n \n \n <code>license_included</code> - The type of license included. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n Possible values are <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n
\n <code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n \n \n \n
<code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n
<code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account). \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListResourceInventoryResponse": {
"type": "structure",
"members": {
"ResourceInventoryList": {
"target": "com.amazonaws.licensemanager#ResourceInventoryList",
"traits": {
"smithy.api#documentation": " Information about the resources. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListTagsForResource": {
"type": "operation",

"input": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the tags for the specified license configuration. "
}
},
"com.amazonaws.licensemanager#ListTagsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",

"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListTagsForResourceResponse": {
"type": "structure",
"members": {
"Tags": {

"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Information about the tags. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListTokens": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListTokensRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListTokensResponse"
},
"errors":
[
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists your tokens. "
}
},
"com.amazonaws.licensemanager#ListTokensRequest": {
"type": "structure",
"members": {
"TokenIds": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " Token IDs. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filter is supported: \n
\n \n \n <code>LicenseArns</code>\n \n \n
"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation":
" Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListTokensResponse": {
"type": "structure",
"members": {
"Tokens": {
"target": "com.amazonaws.licensemanager#TokenList",
"traits": {
"smithy.api#documentation": " Received token details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}

```
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
             {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying
license\n        consumption details by resource at a selected point in time. Use this action to audit the\n        current
license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
```

"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>resourceArn</code> - The ARN of the license configuration resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceAccount</code> - The ID of the account that owns the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
"type": "structure",
"members": {

"LicenseConfigurationUsageList": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}

```
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Location": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#Long": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#ManagedResourceSummary": {
        "type": "structure",
        "members": {
            "ResourceType":
{
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
                }
            },
            "AssociationCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ManagedResourceSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
        }
    },
    "com.amazonaws.licensemanager#MaxSize100": {

    "type": "integer",
        "traits": {
            "smithy.api#range": {
                "min": 1,
                "max": 100
            }
        }
    },
```

"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": " The key name. "
            }
        },

"Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": " The value. "
            }
        }
    },
    "traits": {
        "smithy.api#documentation": " Describes key/value pairs. "
    }
},
"com.amazonaws.licensemanager#MetadataList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Metadata"
    }
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }

```
        },
        "traits": {
            "smithy.api#documentation": "<p>There are no entitlements found for this license, or the entitlement maximum count is reached.</p>",
             "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#Options": {
        "type": "structure",
        "members": {
            "ActivationOverrideBehavior": {
                "target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
                "traits": {
                    "smithy.api#documentation": "<p>An activation option for your grant that determines the behavior of activating a grant.\n        Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter.</p>\n        <ul>\n            <li>\n                <p>As a license administrator, you can optionally specify an\n                <code>ActivationOverrideBehavior</code> when activating a grant.</p>\n  </li>\n            <li>\n                <p>As a grantor, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n                account in your organization.</p>\n            </li>\n            <li>\n                <p>As a grantee, if the grantor creating the distributed grant doesnt specify an\n                <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n                are activating the grant.</p>\n            </li>\n        </ul>\n        <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n            <dd>\n                <p>Use this value to activate a grant without replacing any member accounts\n                active grants for the same product.</p>\n            </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n            <dd>\n                <p>Use this value to activate a grant and disable other active grants in any\n                member accounts
 for the same product. This action will also replace their\n                previously activated grants with this activated grant.</p>\n            </dd>\n        </dl>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The options you can specify when you create a new version of a grant, such as activation\n        override behavior. For more information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#OrganizationConfiguration": {
        "type": "structure",
        "members": {
            "EnableIntegration": {
                "target": "com.amazonaws.licensemanager#Boolean",
                "traits": {
                    "smithy.api#default": false,
                    "smithy.api#documentation":
```

" Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform

Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n
\n \n \n <code>Platform Type</code> - The platform type.\n
Logical operator is <code>EQUALS</code>. \n
\n \n \n <code>Tag:key</code> - The key of a tag attached to an
Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is
<code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the
example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you
are not using values for the key.\n \n \n \n \n
<code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from
automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n
\n \n <code>License Included</code> - The type of license included.\n Logical
operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are:
<code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-
web</code> | \n <code>windows-server-datacenter</code>. \n \n \n
The following filters and logical operators are supported when the resource type\n is
<code>RDS</code>: \n \n \n \n <code>Engine Edition</code> -
The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible
values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-
se2</code>. \n \n \n \n <code>License Pack</code> - The license
pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data
guard</code> | \n <code>diagnostic pack sqlt</code> | \n
<code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n
\n ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information for a license configuration. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
"type": "structure",
"members": {
"ProductInformationFilterName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Filter name. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterValue": {
"target": "com.amazonaws.licensemanager#StringList",

"traits": {
"smithy.api#documentation": " Filter value. "
}
},

```
        "ProductInformationFilterComparator": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Logical operator.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes product information filters.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformationFilter"
    }
},
"com.amazonaws.licensemanager#ProductInformationList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformation"
     }
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
    "type": "structure",
    "members": {
        "MaxTimeToLiveInMinutes": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
    }
},
"com.amazonaws.licensemanager#RateLimitExceededException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
```

"aws.protocols#awsQueryError": {
"code": "RateLimitExceeded",
"httpResponseCode": 429
},
"smithy.api#documentation": " Too many requests have been submitted. Try again after a brief wait. ",
"smithy.api#error": "client",
"smithy.api#httpError": 429
}
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
"type": "structure",
"members": {
"ReceivedStatus": {
"target": "com.amazonaws.licensemanager#ReceivedStatus",
"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Received status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations. "
}
}
},
"traits": {
"smithy.api#documentation": " Metadata associated with received licenses and grants. "
}
},
"com.amazonaws.licensemanager#ReceivedStatus": {
"type": "enum",
"members": {
"PENDING_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_WORKFLOW"
}
},
"PENDING_ACCEPT": {
"target": "smithy.api#Unit",

```
            "traits": {
                "smithy.api#enumValue":
"PENDING_ACCEPT"
            }
        },
        "REJECTED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "REJECTED"
            }
        },
        "ACTIVE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "ACTIVE"
            }
        },
        "FAILED_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        },
        "DISABLED": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "DISABLED"
            }
        },
        "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#RedirectException": {
    "type": "structure",
    "members": {
        "Location": {
            "target": "com.amazonaws.licensemanager#Location",
```

```
                "traits": {
                    "smithy.api#httpHeader": "Location"
                }
            },
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
             "smithy.api#error": "client",
            "smithy.api#httpError": 308
        }
    },
    "com.amazonaws.licensemanager#RejectGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#RejectGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#RejectGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
```

```
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}

  }
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#RenewType":
  {
        "type": "enum",
        "members": {
```

"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"WEEKLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Weekly"
}
},
"MONTHLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Monthly"
}
}
}
},
"com.amazonaws.licensemanager#ReportContext": {
"type": "structure",
"members": {
"licenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details of the license configuration that this generator reports on. "
}
},
"com.amazonaws.licensemanager#ReportFrequency": {
"type": "structure",
"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "
}
},
"period": {

"target": "com.amazonaws.licensemanager#ReportFrequencyType",

"traits": {
"smithy.api#documentation": " Time period between each report. The period can be daily, weekly, or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"com.amazonaws.licensemanager#ReportFrequencyType": {
"type": "enum",
"members": {
"DAY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DAY"
}
},
"WEEK": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "WEEK"
}
},
"MONTH": {
"target": "smithy.api#Unit",
"traits":
{
"smithy.api#enumValue": "MONTH"
}
}
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the report generator. "
}
},
"ReportType": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {

"smithy.api#documentation": " Type of reports that are generated. "
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " License configuration type for this generator. "
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. "
}
},
"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}
},
"LastRunFailureReason": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Failure message for the last report generation attempt. "
}
},
"LastReportGenerationTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the last report was generated at. "
}
},
"ReportCreatorAccount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Web Services account ID used to create the report generator. "
}
},

"Description": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the report was created. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags associated with the report generator. "
}

}
},
"traits": {
"smithy.api#documentation": " Describe the details of a report generator. "
}
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportGenerator"
}
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
}
}
},
"com.amazonaws.licensemanager#ReportType": {

"type": "enum",
"members": {
"LICENSE_CONFIGURATION_SUMMARY_REPORT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "LicenseConfigurationSummaryReport"
}

},
"LICENSE_CONFIGURATION_USAGE_REPORT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "LicenseConfigurationUsageReport"
}
}
}
},
"com.amazonaws.licensemanager#ReportTypeList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportType"
}
},
"com.amazonaws.licensemanager#ResourceInventory": {
"type": "structure",
"members": {
"ResourceId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits":
{
"smithy.api#documentation": " Type of resource. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"Platform": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Platform of the resource. "
}
},
"PlatformVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Platform version of the resource in the inventory. "
}
},
"ResourceOwningAccountId":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a resource. "
}
},
"com.amazonaws.licensemanager#ResourceInventoryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ResourceInventory"
}
},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ResourceLimitExceeded",

"httpResponseCode": 400
},
"smithy.api#documentation": " Your resource limits have been exceeded. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
"type": "structure",
"members": {

```
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "InvalidResource.NotFound",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The resource cannot be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceType": {
    "type": "enum",
    "members": {
        "EC2_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_INSTANCE"
            }
        },
        "EC2_HOST": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_HOST"
            }
        },
        "EC2_AMI": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_AMI"
            }
        },
        "RDS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "RDS"
            }
        },
        "SYSTEMS_MANAGER_MANAGED_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
            }
        }
    }
```

```
    },
    "com.amazonaws.licensemanager#S3Location": {
        "type": "structure",
        "members": {
            "bucket": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the S3 bucket reports are published to.</p>"
                }
            },
            "keyPrefix": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Prefix of the S3 bucket reports are published to.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
        }
    },
    "com.amazonaws.licensemanager#ServerInternalException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InternalError",
                "httpResponseCode": 500
            },
            "smithy.api#documentation": "<p>The server experienced an internal error. Try again.</p>",
            "smithy.api#error": "server",
            "smithy.api#httpError": 500
        }
    },
    "com.amazonaws.licensemanager#SignedToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 4096
            }
        }
    },
    "com.amazonaws.licensemanager#StatusReasonMessage": {
```

"type": "string",
"traits":
{
"smithy.api#length": {
"min": 0,
"max": 400
},
"smithy.api#pattern": "^[\\s\\S]+$"
}
},
"com.amazonaws.licensemanager#String": {
"type": "string"
},
"com.amazonaws.licensemanager#StringList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#String"
}
},
"com.amazonaws.licensemanager#Tag": {
"type": "structure",
"members": {
"Key": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Tag key. "
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation":
" Tag value. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a tag for a license configuration. "
}
},
"com.amazonaws.licensemanager#TagKeyList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#String"
}
},
"com.amazonaws.licensemanager#TagList": {
"type": "list",

"member": {
"target": "com.amazonaws.licensemanager#Tag"
}
},
"com.amazonaws.licensemanager#TagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#TagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#TagResourceResponse"
},
"errors": [
{
"target":
"com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Adds the specified tags to the specified license configuration. "
}
},
"com.amazonaws.licensemanager#TagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits":
{
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license
configuration. ",
"smithy.api#required": {}
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",

"traits": {
"smithy.api#documentation": " One or more tags. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#TagResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#TokenData": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. "
}
},
"TokenType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"ExpirationTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Token expiration time, in ISO8601-UTC
format. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",

"traits": {
"smithy.api#documentation": " Data specified by the caller. "
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the roles included in the token. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. "
}
}
},
"traits": {

"smithy.api#documentation": " Describes a token. "
}
},
"com.amazonaws.licensemanager#TokenList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#TokenData"
}
},
"com.amazonaws.licensemanager#TokenString": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 4096
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#TokenType": {
"type": "enum",
"members": {
"REFRESH_TOKEN": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REFRESH_TOKEN"
}

```
            }
        }
    },
    "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException":
 {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The digital signature method is unsupported. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#UntagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UntagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UntagResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Removes the specified tags from the specified license
configuration.</p>"
        }
    },
```

"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",
"traits": {
"smithy.api#documentation": " Keys identifying the tags to remove. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseConfigurationStatus": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
                "traits": {
                    "smithy.api#documentation": "<p>New status of the license configuration.</p>"
                }
            },
            "LicenseRules": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {

    "smithy.api#documentation": "<p>New license rule. The only rule that you can add after you create a license\n
    configuration is licenseAffinityToHost.</p>"
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>New number of licenses managed by the license
configuration.</p>"
                }
            },
            "LicenseCountHardLimit": {
```

"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name
of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is
uninstalled. "
}
}
},
"traits":
{
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates a report generator.</p>\n        <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to update.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportGeneratorName": {
```

"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation":
" Type of reports to generate. The following report types are supported: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " The report context. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits":
{
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},

{
"target": "com.amazonaws.licensemanager#InvalidResourceStateException"
},
{
"target": "com.amazonaws.licensemanager#LicenseUsageException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Adds or removes the specified license configurations for the specified Amazon Web Services resource. \n You can update the license specifications of AMIs, instances, and hosts.\n You cannot update the license specifications for launch templates and CloudFormation templates, \n as they send license configurations to the operation that creates the resource. "

```
        }
    },

    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "AddLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
                }
            },
            "RemoveLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation":
 "<p>ARNs of the license configurations to remove.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
        },
        "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where the License
 Manager information is stored.</p>"
                }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Enables integration with Organizations for cross-account discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
```

"smithy.api#documentation": " Activates cross-account discovery. "

}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UsageOperation": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
}
}
},
"com.amazonaws.licensemanager#ValidationException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The provided input is not valid. Try your request again. ",

"smithy.api#error": "client",
"smithy.api#httpError": 400
}
}
}
}

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version
 of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus
```

```
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack,
 options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if
 err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
```

1.3790 proto-otlp 1.3.1

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1.3791 pkcs7 0.0.0-20200128120323-432b2356ecb1

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1.3792 cgroups 3.0.3

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1.3793 codegangsta-cli 1.20.0

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1.3794 go-metrics 0.3.10

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1.3796 strfmt 0.21.3

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1.3797 image-spec 1.0.2

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1.3798 generic-list-go 0.2.0

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1.3799 otel-sdk-metric 0.39.0

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```
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*/
(By Douglas Crockford <douglas@crockford.com>)
```

For lib/cpp/src/thrift/windows/SocketPair.cpp

```
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*/
```

For lib/py/compat/win32/stdint.h

```
// ISO C9x  compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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in t_html_generator.h

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1.3802 contrib-instrumentation-net-http-otelhttp 0.49.0

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1.3805 otel-exporters-otlp-otlptrace-otlptracegrpc 1.28.0

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1.3806 ruamel.yaml 0.18.10

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1.3807 x-exp 0.0.0-20230713183714-613f0c0eb8a1

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1.3808 go-ordered-map 2.1.8

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1.3809 procfs 0.14.0

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metrics from the pseudo-filesystem proc.

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1.3810 ntp 1.3.1

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1.3811 swag 0.22.9

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1.3812 src-go-pkcs12 0.2.0

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1.3813 go-str2duration 2.1.0

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1.3814 socket 0.5.1

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1.3816 x-mod 0.17.0

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1.3818 ebpf 0.12.3

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1.3819 otel-sdk 1.28.0

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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This software package is based on the paper
I. Bogaert, "Iteration-Free Computation of Gauss-Legendre Quadrature Nodes and Weights",

to be published in the SIAM Journal of Scientific Computing.

The main features of this software are:
- Speed: due to the simple formulas and the O(1) complexity computation of individual Gauss-Legendre quadrature nodes and weights. This makes it compatible with parallel computing paradigms.
- Accuracy: the error on the nodes and weights is within a few ulps (see the paper for details).

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OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
A C-program for MT19937-64 (2004/9/29 version).
Coded by Takuji Nishimura and Makoto Matsumoto.

This is a 64-bit version of Mersenne Twister pseudorandom number
generator.

Before using, initialize the state by using init_genrand64(seed)
or init_by_array64(init_key, key_length).

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M. Matsumoto and T. Nishimura,
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1.3821 kubernetes-yaml 1.1.0

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1.3822 ntp 1.4.3

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1.3823 go-envparse 0.1.0

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1.3825 x-term 0.25.0

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1.3826 kustomize-kyaml 0.16.0

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1.3827 runtime-spec 1.2.0

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1.3828 pkcs11 1.1.1

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1.3829 genproto-googleapis-rpc 0.0.0-20230410155749-daa745c078e1

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1.3830 socket 0.4.1

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1.3831 genproto-googleapis-api 0.0.0-20240701130421-f6361c86f094

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1.3834 x-sync 0.2.0

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1.3835 jsonreference 0.20.4

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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This software package is based on the paper
I. Bogaert, "Iteration-Free Computation of Gauss-Legendre Quadrature Nodes and Weights",
to be published in the SIAM Journal of Scientific Computing.

The main features of this software are:
- Speed: due to the simple formulas and the O(1) complexity computation of individual Gauss-Legendre quadrature nodes and weights. This makes it compatible with parallel computing paradigms.
- Accuracy: the error on the nodes and weights is within a few ulps (see the paper for details).

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A C-program for MT19937-64 (2004/9/29 version).
Coded by Takuji Nishimura and Makoto Matsumoto.

This is a 64-bit version of Mersenne Twister pseudorandom number
generator.

Before using, initialize the state by using init_genrand64(seed)
or init_by_array64(init_key, key_length).

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Category: Standards Track

Simple Mail Transfer Protocol

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Abstract

This document is a self-contained specification of the basic protocol for the Internet electronic mail transport. It consolidates, updates and clarifies, but doesn't add new or change existing functionality of the following:

- the original SMTP (Simple Mail Transfer Protocol) specification of RFC 821 [30],

- domain name system requirements and implications for mail transport from RFC 1035 [22] and RFC 974 [27],

- the clarifications and applicability statements in RFC 1123 [2], and

- material drawn from the SMTP Extension mechanisms [19].

It obsoletes RFC 821, RFC 974, and updates RFC 1123 (replaces the mail transport materials of RFC 1123). However, RFC 821 specifies some features that were not in significant use in the Internet by the mid-1990s and (in appendices) some additional transport models. Those sections are omitted here in the interest of clarity and brevity; readers needing them should refer to RFC 821.

It also includes some additional material from RFC 1123 that required amplification. This material has been identified in multiple ways,

mostly by tracking flaming on various lists and newsgroups and problems of unusual readings or interpretations that have appeared as the SMTP extensions have been deployed. Where this specification moves beyond consolidation and actually differs from earlier

documents, it supersedes them technically as well as textually.

Although SMTP was designed as a mail transport and delivery protocol, this specification also contains information that is important to its use as a 'mail submission' protocol, as recommended for POP [3, 26] and IMAP [6]. Additional submission issues are discussed in RFC 2476 [15].

Section 2.3 provides definitions of terms specific to this document. Except when the historical terminology is necessary for clarity, this document uses the current 'client' and 'server' terminology to identify the sending and receiving SMTP processes, respectively.

A companion document [32] discusses message headers, message bodies and formats
and structures for them, and their relationship.

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1. Introduction

The objective of the Simple Mail Transfer Protocol (SMTP) is to transfer mail reliably and efficiently.

SMTP is independent of the particular transmission subsystem and requires only a reliable ordered data stream channel. While this document specifically discusses transport over TCP, other transports are possible. Appendices to RFC 821 describe some of them.

An

important feature of SMTP is its capability to transport mail across networks, usually referred to as "SMTP mail relaying" (see section 3.8). A network consists of the mutually-TCP-accessible hosts on the public Internet, the mutually-TCP-accessible hosts on a firewall-isolated TCP/IP Intranet, or hosts in some other LAN or WAN environment utilizing a non-TCP transport-level protocol. Using

SMTP, a process can transfer mail to another process on the same network or to some other network via a relay or gateway process accessible to both networks.

In this way, a mail message may pass through a number of intermediate relay or gateway hosts on its path from sender to ultimate recipient. The Mail eXchanger mechanisms of the domain name system [22, 27] (and section 5 of this document) are used to identify the appropriate next-hop destination for a message being transported.

2. The SMTP Model

2.1 Basic Structure

The SMTP design can be pictured as:

```
            +----------+                +----------+
+------+    |          |                |          |
| User |<-->|          |     SMTP       |          |
+------+    |  Client- |Commands/Replies| Server-  |
+------+    |   SMTP   |<--------------->|   SMTP   |    +------+
| File |<-->|          |   and Mail     |          |<-->| File |
|System|    |          |                |          |    |System|
+------+    +----------+                +----------+    +------+
            SMTP client                 SMTP server
```

When an SMTP client has a message to transmit, it establishes a two-way transmission channel to an SMTP server. The responsibility of an SMTP client is to transfer mail messages to one or more SMTP servers, or report its failure to do so.

The means by which a mail message is presented to an SMTP client, and how that client determines the domain name(s) to which mail messages are to be transferred is a local matter, and is not addressed by this document. In some cases, the domain name(s) transferred to, or determined by, an SMTP client will identify the final destination(s) of the mail message. In other cases, common with SMTP clients associated with implementations of the POP [3, 26] or IMAP [6] protocols, or when the SMTP client is inside an isolated transport

service environment, the domain name determined will identify an intermediate destination through which all mail messages are to be relayed. SMTP clients that transfer all traffic, regardless of the target domain names associated with the individual messages, or that do not maintain queues for retrying message transmissions that initially cannot be completed, may otherwise conform to this specification but are not considered fully-capable. Fully-capable SMTP implementations, including the relays used by these less capable

ones, and their destinations, are expected to support all of the queuing,
retrying, and alternate address functions discussed in this specification.

The means by which an SMTP client, once it has determined a target domain name, determines the identity of an SMTP server to which a copy of a message is to be transferred, and then performs that transfer, is covered by this document. To effect a mail transfer to an SMTP server, an SMTP client establishes a two-way transmission channel to that SMTP server. An SMTP client determines the address of an appropriate host running an SMTP server by resolving a destination domain name to either an intermediate Mail eXchanger host or a final target host.

An SMTP server may be either the ultimate destination or an intermediate "relay" (that is, it may assume the role of an SMTP client after receiving the message) or "gateway" (that is, it may transport the message further using some protocol other than SMTP). SMTP commands are generated by the SMTP client and sent to the SMTP
server. SMTP replies are sent from the SMTP server to the SMTP client in response to the commands.

In other words, message transfer can occur in a single connection between the original SMTP-sender and the final SMTP-recipient, or can occur in a series of hops through intermediary systems. In either case, a formal handoff of responsibility for the message occurs: the protocol requires that a server accept responsibility for either delivering a message or properly reporting the failure to do so.

Once the transmission channel is established and initial handshaking completed, the SMTP client normally initiates a mail transaction. Such a transaction consists of a series of commands to specify the originator and destination of the mail and transmission of the message content (including any headers or other structure) itself. When the same message is sent to multiple recipients, this protocol encourages the transmission of only one copy

of the data for all
recipients at the same destination (or intermediate relay) host.

The server responds to each command with a reply; replies may indicate that the command was accepted, that additional commands are expected, or that a temporary or permanent error condition exists. Commands specifying the sender or recipients may include server-permitted SMTP service extension requests as discussed in section 2.2. The dialog is purposely lock-step, one-at-a-time, although this can be modified by mutually-agreed extension requests such as command pipelining [13].

Once a given mail message has been transmitted, the client may either request that the connection be shut down or may initiate other mail transactions. In addition, an SMTP client may use a connection to an SMTP server for ancillary services such as verification of email addresses or retrieval of mailing list subscriber addresses.

As suggested above, this protocol provides
mechanisms for the
transmission of mail. This transmission normally occurs directly from the sending user's host to the receiving user's host when the two hosts are connected to the same transport service. When they are not connected to the same transport service, transmission occurs via one or more relay SMTP servers. An intermediate host that acts as either an SMTP relay or as a gateway into some other transmission environment is usually selected through the use of the domain name service (DNS) Mail eXchanger mechanism.

Usually, intermediate hosts are determined via the DNS MX record, not by explicit "source" routing (see section 5 and appendices C and F.2).

2.2 The Extension Model

2.2.1 Background

In an effort that started in 1990, approximately a decade after RFC 821 was completed, the protocol was modified with a "service extensions" model that permits the client and server to agree to utilize shared functionality beyond the original
SMTP requirements.
The SMTP extension mechanism defines a means whereby an extended SMTP client and server may recognize each other, and the server can inform the client as to the service extensions that it supports.

Contemporary SMTP implementations MUST support the basic extension mechanisms. For instance, servers MUST support the EHLO command even

if they do not implement any specific extensions and clients SHOULD preferentially utilize EHLO rather than HELO. (However, for compatibility with older conforming implementations, SMTP clients and servers MUST support the original HELO mechanisms as a fallback.) Unless the different characteristics of HELO must be identified for interoperability purposes, this document discusses only EHLO.

SMTP is widely deployed and high-quality implementations have proven to be very robust. However, the Internet community now considers some services to be important that were not anticipated when the

protocol was first designed. If support for those services is to be added, it must be done in a way that permits older implementations to continue working acceptably. The extension framework consists of:

- The SMTP command EHLO, superseding the earlier HELO,

- a registry of SMTP service extensions,

- additional parameters to the SMTP MAIL and RCPT commands, and

- optional replacements for commands defined in this protocol, such as for DATA in non-ASCII transmissions [33].

SMTP's strength comes primarily from its simplicity. Experience with many protocols has shown that protocols with few options tend towards ubiquity, whereas protocols with many options tend towards obscurity.

Each and every extension, regardless of its benefits, must be carefully scrutinized with respect to its implementation, deployment, and interoperability costs. In many cases, the cost of extending the SMTP service will likely outweigh the benefit.

2.2.2 Definition and Registration of Extensions

The IANA maintains a registry of SMTP service extensions. A corresponding EHLO keyword value is associated with each extension. Each service extension registered with the IANA must be defined in a formal standards-track or IESG-approved experimental protocol document. The definition must include:

- the textual name of the SMTP service extension;

- the EHLO keyword value associated with the extension;

- the syntax and possible values of parameters associated with the EHLO keyword value;

- any additional SMTP verbs associated with the extension (additional verbs will usually be, but are not required to be, the same as the EHLO keyword value);

- any new parameters the extension associates with the MAIL or RCPT verbs;

- a description of how support for the extension affects the behavior of a server and client SMTP; and,

- the increment by which the extension is increasing the maximum length of the commands MAIL and/or RCPT, over that specified in this standard.

In addition, any EHLO keyword value starting with an upper or lower case "X" refers to a local SMTP service extension used exclusively through bilateral agreement. Keywords beginning with "X" MUST NOT be used in a registered service extension. Conversely, keyword values presented in the EHLO response that do not begin with "X" MUST correspond to a standard, standards-track, or IESG-approved experimental SMTP service extension registered with IANA. A conforming server MUST NOT offer non-"X"-prefixed keyword values that are not described in a registered extension.

Additional verbs and parameter names are bound by the same rules as EHLO keywords; specifically, verbs beginning with "X" are local extensions that may not be registered or standardized. Conversely, verbs not beginning with "X" must always be registered.

2.3 Terminology

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described below.

1. MUST This word, or the terms "REQUIRED" or "SHALL", mean that the definition is an absolute requirement of the specification.

2. MUST NOT This phrase, or the phrase "SHALL NOT", mean that the definition is an absolute prohibition of the specification.

3. SHOULD This word, or the adjective "RECOMMENDED", mean that there may exist valid reasons in particular circumstances to ignore a particular item, but the full implications must be understood and carefully weighed before choosing a different

course.

4. SHOULD NOT This phrase, or the phrase "NOT RECOMMENDED" mean that there may exist valid reasons in particular circumstances when the particular behavior is acceptable or even useful, but the full implications should be understood and the case carefully weighed before implementing any behavior described with this label.

5. MAY This word, or the adjective "OPTIONAL", mean that an item is truly optional. One vendor may choose to include the item because a particular marketplace requires it or because the vendor feels that it enhances the product while another vendor may omit the same item. An implementation which does not include a particular option MUST be prepared to interoperate with another implementation which does include the option, though perhaps with reduced functionality. In the same vein an implementation which

does include a particular option MUST be prepared to interoperate with another implementation which does not include the option (except, of course, for the feature the option provides.)

2.3.1 Mail Objects

SMTP transports a mail object. A mail object contains an envelope and content.

The SMTP envelope is sent as a series of SMTP protocol units (described in section 3). It consists of an originator address (to which error reports should be directed); one or more recipient addresses; and optional protocol extension material. Historically, variations on the recipient address specification command (RCPT TO) could be used to specify alternate delivery modes, such as immediate display; those variations have now been deprecated (see appendix F, section F.6).

The SMTP content is sent in the SMTP DATA protocol unit and has two parts: the headers and the body. If the content conforms to other contemporary standards, the headers form a collection of field/value pairs structured as in the message format specification [32]; the body, if structured, is defined according to MIME [12]. The content is textual in nature, expressed using the US-ASCII repertoire [1]. Although SMTP extensions (such as "8BITMIME" [20]) may relax this restriction for the content body, the content headers are always encoded using the US-ASCII repertoire. A MIME extension [23] defines

an algorithm for representing header values outside the US-ASCII repertoire, while still encoding them using the US-ASCII repertoire.

2.3.2 Senders and Receivers

In RFC 821, the two hosts participating in an SMTP transaction were described as the "SMTP-sender" and "SMTP-receiver". This document has been changed to reflect current industry terminology and hence refers to them as the "SMTP client" (or sometimes just "the client") and "SMTP server" (or just "the server"), respectively. Since a given host may act both as server and client in a relay situation, "receiver" and "sender" terminology is still used where needed for clarity.

2.3.3 Mail Agents and Message Stores

Additional mail system terminology became common after RFC 821 was published and, where convenient, is used in this specification. In particular, SMTP servers and clients provide a mail transport service and therefore act as "Mail Transfer Agents" (MTAs). "Mail User Agents" (MUAs or UAs) are normally thought of as the sources and

targets of mail. At the source, an MUA might collect mail to be transmitted from a user and hand it off to an MTA; the final ("delivery") MTA would be thought of as handing the mail off to an MUA (or at least transferring responsibility to it, e.g., by depositing the message in a "message store"). However, while these terms are used with at least the appearance of great precision in other environments, the implied boundaries between MUAs and MTAs often do not accurately match common, and conforming, practices with Internet mail. Hence, the reader should be cautious about inferring the strong relationships and responsibilities that might be implied if these terms were used elsewhere.

2.3.4 Host

For the purposes of this specification, a host is a computer system attached to the Internet (or, in some cases, to a private TCP/IP network) and supporting the SMTP protocol. Hosts are known by names (see "domain"); identifying them by numerical address is discouraged.

2.3.5 Domain

A domain (or domain name) consists of one or more dot-separated components. These components ("labels" in DNS terminology [22]) are restricted for SMTP purposes to consist of a sequence of letters, digits, and hyphens drawn from the ASCII character set [1]. Domain

names are used as names of hosts and of other entities in the domain name hierarchy. For example, a domain may refer to an alias (label of a CNAME RR) or the label of Mail eXchanger records to be used to deliver mail instead of representing a host name. See [22] and section 5 of this specification.

The domain name, as described in this document and in [22], is the entire, fully-qualified name (often referred to as an "FQDN"). A domain name that is not in FQDN form is no more than a local alias. Local aliases MUST NOT appear in any SMTP transaction.

2.3.6 Buffer and State Table

SMTP sessions are stateful, with both parties carefully maintaining a common view of the current state. In this document we model this state by a virtual "buffer" and a "state table" on the server which may be used by the client to, for example, "clear the buffer" or "reset the state table," causing the information in the buffer to be discarded and the state to be returned to some previous state.

2.3.7 Lines

SMTP commands and, unless altered by a service extension, message data, are transmitted in "lines". Lines consist of zero or more data characters terminated by the sequence ASCII character "CR" (hex value 0D) followed immediately by ASCII character "LF" (hex value 0A). This termination sequence is denoted as <CRLF> in this document. Conforming implementations MUST NOT recognize or generate any other character or character sequence as a line terminator. Limits MAY be imposed on line lengths by servers (see section 4.5.3).

In addition, the appearance of "bare" "CR" or "LF" characters in text (i.e., either without the other) has a long history of causing problems in mail implementations and applications that use the mail system as a tool. SMTP client implementations MUST NOT transmit these characters except when they are intended as line terminators and then MUST, as indicated above, transmit them only as a <CRLF> sequence.

2.3.8 Originator, Delivery, Relay, and Gateway Systems

This specification makes a distinction among four types of SMTP systems, based on the role those systems play in transmitting electronic mail. An "originating" system (sometimes called an SMTP originator) introduces mail into the Internet or, more generally, into a transport service environment. A "delivery" SMTP system is

one that receives mail from a transport service environment and passes it to a mail user agent or deposits it in a message store which a mail user agent is expected to subsequently access. A "relay" SMTP system (usually referred to just as a "relay") receives mail from an SMTP client and transmits it, without modification to the message data other than adding trace information, to another SMTP server for further relaying or for delivery.

A "gateway" SMTP system (usually referred to just as a "gateway") receives mail from a client system in one transport environment and transmits it to a server system in another transport environment. Differences in protocols or message semantics between the transport environments on either side of a gateway may require that the gateway system perform transformations to the message that are not permitted to SMTP relay systems. For the purposes of this specification, firewalls that rewrite addresses should be considered as gateways, even if SMTP is used on both sides of them (see [11]).

2.3.9 Message Content and Mail Data

The terms "message content" and "mail data" are used interchangeably in this document to describe the material transmitted after the DATA command is accepted and before the end of data indication is transmitted. Message content includes message headers and the possibly-structured message body. The MIME specification [12] provides the standard mechanisms for structured message bodies.

2.3.10 Mailbox and Address

As used in this specification, an "address" is a character string that identifies a user to whom mail will be sent or a location into which mail will be deposited. The term "mailbox" refers to that depository. The two terms are typically used interchangeably unless the distinction between the location in which mail is placed (the mailbox) and a reference to it (the address) is important. An address normally consists of user and domain specifications. The standard mailbox naming convention is defined to be "local-part@domain": contemporary usage permits a much broader set of applications than simple "user names". Consequently, and due to a long history of problems when intermediate hosts have attempted to optimize transport by modifying them, the local-part MUST be interpreted and assigned semantics only by the host specified in the domain part of the address.

2.3.11 Reply

An SMTP reply is an acknowledgment (positive or negative) sent from receiver to sender via the transmission channel in response to a command. The general form of a reply is a numeric completion code (indicating failure or success) usually followed by a text string. The codes are for use by programs and the text is usually intended for human users. Recent work [34] has specified further structuring of the reply strings, including the use of supplemental and more specific completion codes.

2.4 General Syntax Principles and Transaction Model

SMTP commands and replies have a rigid syntax. All commands begin with a command verb. All Replies begin with a three digit numeric code. In some commands and replies, arguments MUST follow the verb or reply code. Some commands do not accept arguments (after the verb), and some reply codes are followed, sometimes optionally, by free form text. In both cases, where text appears, it is separated from the verb or reply code by a space character. Complete definitions of commands and replies appear in section 4.

Verbs and argument values (e.g., "TO:" or "to:" in the RCPT command and extension name keywords) are not case sensitive, with the sole exception in this specification of a mailbox local-part (SMTP Extensions may explicitly specify case-sensitive elements). That is, a command verb, an argument value other than a mailbox local-part, and free form text MAY be encoded in upper case, lower case, or any mixture of upper and lower
case with no impact on its meaning. This
is NOT true of a mailbox local-part. The local-part of a mailbox MUST BE treated as case sensitive. Therefore, SMTP implementations MUST take care to preserve the case of mailbox local-parts. Mailbox domains are not case sensitive. In particular, for some hosts the user "smith" is different from the user "Smith". However, exploiting the case sensitivity of mailbox local-parts impedes interoperability and is discouraged.

A few SMTP servers, in violation of this specification (and RFC 821) require that command verbs be encoded by clients in upper case. Implementations MAY wish to employ this encoding to accommodate those servers.

The argument field consists of a variable length character string ending with the end of the line, i.e., with the character sequence <CRLF>. The receiver will take no action until this sequence is received.

The syntax for each command is shown with the discussion of that command. Common elements and parameters are shown in section 4.1.2.

Commands and replies are composed of characters from the ASCII character set [1]. When the transport service provides an 8-bit byte (octet) transmission channel, each 7-bit character is transmitted right justified in an octet with the high order bit cleared to zero. More specifically, the unextended SMTP service provides seven bit transport only. An originating SMTP client which has not successfully negotiated an appropriate extension with a particular server MUST NOT transmit messages with information in the high-order bit of octets. If such messages are transmitted in violation of this rule, receiving SMTP servers MAY clear the high-order bit or reject the message as invalid. In general, a relay SMTP SHOULD assume that the message content it has received is valid and, assuming that the envelope permits doing so, relay it without inspecting that content. Of course, if the content is mislabeled and the data path cannot accept the actual content, this may result in ultimate delivery of a severely garbled message to the recipient. Delivery SMTP systems MAY reject ("bounce") such messages rather than deliver them. No sending SMTP system is permitted to send envelope commands in any character

set other than US-ASCII; receiving systems SHOULD reject such commands, normally using "500 syntax error - invalid character" replies.

Eight-bit message content transmission MAY be requested of the server by a client using extended SMTP facilities, notably the "8BITMIME" extension [20]. 8BITMIME SHOULD be supported by SMTP servers. However, it MUST not be construed as authorization to transmit unrestricted eight bit material. 8BITMIME MUST NOT be requested by senders for material with the high bit on that is not in MIME format with an appropriate content-transfer encoding; servers MAY reject such messages.

The metalinguistic notation used in this document corresponds to the "Augmented BNF" used in other Internet mail system documents. The reader who is not familiar with that syntax should consult the ABNF specification [8]. Metalanguage terms used in running text are surrounded by pointed brackets (e.g., <CRLF>) for clarity.

3. The SMTP Procedures: An Overview

This section contains descriptions of the procedures used in SMTP: session initiation, the mail transaction, forwarding mail, verifying mailbox names and expanding mailing lists, and the opening and

closing exchanges. Comments on relaying, a note on mail domains, and a discussion of changing roles are included at the end of this section. Several complete scenarios are presented in appendix D.

3.1 Session Initiation

An SMTP session is initiated when a client opens a connection to a server and the server responds with an opening message.

SMTP server implementations MAY include identification of their software and version information in the connection greeting reply after the 220 code, a practice that permits more efficient isolation and repair of any problems. Implementations MAY make provision for SMTP servers to disable the software and version announcement where it causes security concerns. While some systems also identify their contact point for mail problems, this is not a substitute for maintaining the required "postmaster" address (see section 4.5.1).

The SMTP protocol allows a server to formally reject a transaction while still allowing the initial connection as follows: a 554 response MAY be given in the initial connection opening message instead of the 220. A server taking this approach MUST still wait for the client to send a QUIT (see section 4.1.1.10) before closing the connection and SHOULD respond to any intervening commands with

"503 bad sequence of commands". Since an attempt to make an SMTP connection to such a system is probably in error, a server returning a 554 response on connection opening SHOULD provide enough information in the reply text to facilitate debugging of the sending system.

3.2 Client Initiation

Once the server has sent the welcoming message and the client has received it, the client normally sends the EHLO command to the server, indicating the client's identity. In addition to opening the session, use of EHLO indicates that the client is able to process service extensions and requests that the server provide a list of the extensions it supports. Older SMTP systems which are unable to support service extensions and contemporary clients which do not require service extensions in the mail session being initiated, MAY use HELO instead of EHLO. Servers MUST NOT return the extended EHLO-style response to a HELO command. For a particular connection attempt, if the server returns a "command not recognized" response to EHLO, the client SHOULD be able to fall back and send HELO.

In the EHLO command the host sending the command identifies itself; the command may be interpreted as saying "Hello, I am <domain>" (and, in the case of EHLO, "and I support service extension requests").

3.3 Mail Transactions

There are three steps to SMTP mail transactions. The transaction starts with a MAIL command which gives the sender identification. (In general, the MAIL command may be sent only when no mail transaction is in progress; see section 4.1.4.) A series of one or more RCPT commands follows giving the receiver information. Then a DATA command initiates transfer of the mail data and is terminated by the "end of mail" data indicator, which also confirms the transaction.

The first step in the procedure is the MAIL command.

MAIL FROM:<reverse-path> [SP <mail-parameters>] <CRLF>

This command tells the SMTP-receiver that a new mail transaction is starting
and to reset all its state tables and buffers, including any recipients or mail data. The <reverse-path> portion of the first or only argument contains the source mailbox (between "<" and ">" brackets), which can be used to report errors (see section 4.2 for a discussion of error reporting). If accepted, the SMTP server returns a 250 OK reply. If the mailbox specification is not acceptable for some reason, the server MUST return a reply indicating whether the

failure is permanent (i.e., will occur again if the client tries to send the same address again) or temporary (i.e., the address might be accepted if the client tries again later). Despite the apparent scope of this requirement, there are circumstances in which the acceptability of the reverse-path may not be determined until one or more forward-paths (in RCPT commands) can be examined. In those cases, the server MAY reasonably accept the reverse-path (with a 250 reply) and then report
problems after the forward-paths are received
and examined. Normally, failures produce 550 or 553 replies.

Historically, the <reverse-path> can contain more than just a mailbox, however, contemporary systems SHOULD NOT use source routing (see appendix C).

The optional <mail-parameters> are associated with negotiated SMTP service extensions (see section 2.2).

The second step in the procedure is the RCPT command.

RCPT TO:<forward-path> [SP <rcpt-parameters>] <CRLF>

The first or only argument to this command includes a forward-path (normally a mailbox and domain, always surrounded by "<" and ">" brackets) identifying one recipient. If accepted, the SMTP server returns a 250 OK reply and stores the forward-path. If the recipient is known not to be a deliverable address, the SMTP server returns a 550 reply, typically with a string such as "no such user - " and the mailbox name (other circumstances and reply codes are possible). This step of the procedure can be repeated any number of times.

The <forward-path> can contain more than just a mailbox. Historically, the <forward-path> can be a source routing list of hosts and the destination mailbox, however, contemporary SMTP clients SHOULD NOT utilize source routes (see appendix C). Servers MUST be prepared to encounter a list of source routes in the forward path, but SHOULD ignore the routes or MAY decline to support the relaying they imply. Similarly, servers MAY decline to accept mail that is destined for other hosts or systems. These restrictions make a server useless as a relay for clients that do not support full SMTP functionality. Consequently, restricted-capability clients MUST NOT assume that any SMTP server on the Internet can be used as their mail processing (relaying) site. If a RCPT command appears without a previous MAIL command, the server MUST return a 503 "Bad sequence of commands" response. The optional <rcpt-parameters> are associated with negotiated SMTP service extensions (see section 2.2).

The third step in the procedure is the DATA command (or some alternative specified in a service extension).

DATA <CRLF>

If accepted, the SMTP server returns a 354 Intermediate reply and considers all succeeding lines up to but not including the end of mail data indicator to be the message text. When the end of text is successfully received and stored the SMTP-receiver sends a 250 OK reply.

Since the mail data is sent on the transmission channel, the end of mail data must be indicated so that the command and reply dialog can be resumed. SMTP indicates the end of the mail data by sending a line containing only a "." (period or full stop). A transparency procedure is used to prevent this from interfering with the user's text (see section 4.5.2).

The end of mail data indicator also confirms the mail transaction and tells the SMTP server to now process the stored recipients and mail data. If accepted, the SMTP server returns a 250 OK reply. The DATA command can fail at only two points in the protocol exchange:

- If there was no MAIL, or no RCPT, command, or all such commands were rejected, the server MAY return a "command out of sequence" (503) or "no valid recipients" (554) reply in response to the DATA command. If one of those replies (or any other 5yz reply) is received, the client MUST NOT send the message data; more generally, message data MUST NOT be sent unless a 354 reply is received.

- If the verb is initially accepted and the 354 reply issued, the DATA command should fail only if the mail transaction was incomplete (for example, no recipients), or if resources were unavailable (including, of course, the server unexpectedly becoming unavailable), or if the server determines that the message should be rejected for policy or other reasons.

However, in practice, some servers do not perform recipient verification until after the message text is received. These servers SHOULD treat a failure for one or more recipients as a "subsequent failure" and return a mail message as discussed in section 6. Using a "550 mailbox not found" (or equivalent) reply code after the data are accepted makes it difficult or impossible for the client to determine which recipients failed.

When RFC 822 format [7, 32] is being used, the mail data include the memo header items such as Date, Subject, To, Cc, From. Server SMTP systems SHOULD NOT reject messages based on perceived defects in the RFC 822 or MIME [12] message header or message body. In particular,

they MUST NOT reject messages in which the numbers of Resent-fields do not match or Resent-to appears without Resent-from and/or Resent-date.

Mail transaction commands MUST be used in the order discussed above.

3.4 Forwarding for Address Correction or Updating

Forwarding support is most often required to consolidate and simplify addresses within, or relative to, some enterprise and less frequently to establish addresses to link a person's prior address with current one. Silent forwarding of messages (without server notification to

the sender), for security or non-disclosure purposes, is common in the contemporary Internet.

In both the enterprise and the "new address" cases, information hiding (and sometimes security) considerations argue against exposure of the "final" address through the SMTP protocol as a side-effect of the forwarding activity. This may be especially important when the final address may not even be reachable by the sender. Consequently, the "forwarding" mechanisms described in section 3.2 of RFC 821, and especially the 251 (corrected destination) and 551 reply codes from RCPT must be evaluated carefully by implementers and, when they are available, by those configuring systems.

In particular:

* Servers MAY forward messages when they are aware of an address change. When they do so, they MAY either provide address-updating information with a 251 code, or may forward "silently" and return a 250 code. But, if a 251 code is used, they MUST NOT assume that the client will actually update address information or even return that information to the user.

Alternately,

* Servers MAY reject or bounce messages when they are not deliverable when addressed. When they do so, they MAY either provide address-updating information with a 551 code, or may reject the message as undeliverable with a 550 code and no address-specific information. But, if a 551 code is used, they MUST NOT assume that the client will actually update address information or even return that information to the user.

SMTP server implementations that support the 251 and/or 551 reply codes are strongly encouraged to provide configuration mechanisms so that sites which conclude that they would undesirably disclose information can disable or restrict their use.

3.5 Commands for Debugging Addresses

3.5.1 Overview

SMTP provides commands to verify a user name or obtain the content of a mailing list. This is done with the VRFY and EXPN commands, which have character string arguments. Implementations SHOULD support VRFY and EXPN (however, see section 3.5.2 and 7.3).

For the VRFY command, the string is a user name or a user name and

domain (see below). If a normal (i.e., 250) response is returned, the response MAY include the full name of the user and MUST include the mailbox of the user. It MUST be in either of the following forms:

```
User Name <local-part@domain>
local-part@domain
```

When a name that is the argument to VRFY could identify more than one mailbox, the server MAY either note the ambiguity or identify the alternatives. In other words, any of the following are legitimate response to VRFY:

```
553 User ambiguous
```

or

```
553- Ambiguous;  Possibilities are
553-Joe Smith <jsmith@foo.com>
553-Harry Smith <hsmith@foo.com>
553 Melvin Smith <dweep@foo.com>
```

or

```
553-Ambiguous;  Possibilities
553- <jsmith@foo.com>
553- <hsmith@foo.com>
553 <dweep@foo.com>
```

Under normal circumstances, a client receiving a 553 reply would be expected to expose the result to the user. Use of exactly the forms given, and the "user ambiguous" or "ambiguous" keywords, possibly supplemented by extended reply codes such as those described in [34], will facilitate automated translation into other languages as needed. Of course, a client that was highly automated or that was operating in another language than English, might choose to try to translate the response, to return some other indication to the user than the literal text of the reply, or to take some automated action such as consulting a directory service for additional information before reporting to the user.

For the EXPN command, the string identifies a mailing list, and the successful (i.e., 250) multiline response MAY include the full name of the users and MUST give the mailboxes on the mailing list.

In some hosts the distinction between a mailing list and an alias for a single mailbox is a bit fuzzy, since a common data structure may hold both types of entries, and it is possible to have mailing lists containing only one mailbox. If a request is made to apply VRFY to a mailing list, a positive response MAY be given if a message so addressed would be delivered to everyone on the list, otherwise an error SHOULD be reported (e.g., "550 That is a mailing list, not a user" or "252 Unable to verify members of mailing list"). If a request is made to expand a user name, the server MAY return a positive
response consisting of a list containing one name, or an error MAY be reported (e.g., "550 That is a user name, not a mailing list").

In the case of a successful multiline reply (normal for EXPN) exactly one mailbox is to be specified on each line of the reply. The case of an ambiguous request is discussed above.

"User name" is a fuzzy term and has been used deliberately. An implementation of the VRFY or EXPN commands MUST include at least recognition of local mailboxes as "user names". However, since current Internet practice often results in a single host handling mail for multiple domains, hosts, especially hosts that provide this functionality, SHOULD accept the "local-part@domain" form as a "user name"; hosts MAY also choose to recognize other strings as "user names".

The case of expanding a mailbox list requires a multiline reply, such as:

```
C: EXPN Example-People
S: 250-Jon Postel <Postel@isi.edu>
S: 250-Fred
Fonebone <Fonebone@physics.foo-u.edu>
S: 250 Sam Q. Smith <SQSmith@specific.generic.com>
```

or

```
C: EXPN Executive-Washroom-List
S: 550 Access Denied to You.
```

The character string arguments of the VRFY and EXPN commands cannot be further restricted due to the variety of implementations of the user name and mailbox list concepts. On some systems it may be appropriate for the argument of the EXPN command to be a file name for a file containing a mailing list, but again there are a variety of file naming conventions in the Internet. Similarly, historical variations in what is returned by these commands are such that the

response SHOULD be interpreted very carefully, if at all, and SHOULD generally only be used for diagnostic purposes.

3.5.2 VRFY Normal Response

When normal (2yz or 551) responses are returned from a VRFY or EXPN request, the reply normally includes the mailbox name, i.e., "<local-part@domain>", where "domain" is a fully qualified domain name, MUST appear in the syntax. In circumstances exceptional enough to justify violating the intent of this specification, free-form text MAY be returned. In order to facilitate parsing by both computers and people, addresses SHOULD appear in pointed brackets. When addresses, rather than free-form debugging information, are returned, EXPN and VRFY MUST return only valid domain addresses that are usable in SMTP RCPT commands. Consequently, if an address implies delivery to a program or other system, the mailbox name used to reach that target MUST be given. Paths (explicit source routes) MUST NOT be returned by VRFY or EXPN.

Server implementations SHOULD support both VRFY and EXPN. For security reasons, implementations MAY provide local installations a way to disable either or both of these commands through configuration options or the equivalent. When these commands are supported, they are not required to work across relays when relaying is supported. Since they were both optional in RFC 821, they MUST be listed as service extensions in an EHLO response, if they are supported.

3.5.3 Meaning of VRFY or EXPN Success Response

A server MUST NOT return a 250 code in response to a VRFY or EXPN command unless it has actually verified the address. In particular, a server MUST NOT return 250 if all it has done is to verify that the syntax given is valid. In that case, 502 (Command not implemented) or 500 (Syntax error, command unrecognized) SHOULD be returned. As stated elsewhere, implementation (in the sense of actually validating addresses and returning information) of VRFY and EXPN are strongly recommended. Hence, implementations that return 500 or 502 for VRFY are not in full compliance with this specification.

There may be circumstances where an address appears to be valid but cannot reasonably be verified in real time, particularly when a server is acting as a mail exchanger for another server or domain. "Apparent validity" in this case would normally involve at least syntax checking and might involve verification that any domains specified were ones to which the host expected to be able to relay

mail. In these situations, reply code 252 SHOULD be returned. These cases parallel the discussion of RCPT verification discussed in section 2.1. Similarly, the discussion in section 3.4 applies to the use of reply codes 251 and 551 with VRFY (and EXPN) to indicate addresses that are recognized but that would be forwarded or bounced were mail received for them. Implementations generally SHOULD be more aggressive about address verification in the case of VRFY than in the case of RCPT, even if it takes a little longer to do so.

3.5.4 Semantics and Applications of EXPN

EXPN is often very useful in debugging and understanding problems with mailing lists and multiple-target-address aliases.
Some systems
have attempted to use source expansion of mailing lists as a means of eliminating duplicates. The propagation of aliasing systems with mail on the Internet, for hosts (typically with MX and CNAME DNS records), for mailboxes (various types of local host aliases), and in various proxying arrangements, has made it nearly impossible for these strategies to work consistently, and mail systems SHOULD NOT attempt them.

3.6 Domains

Only resolvable, fully-qualified, domain names (FQDNs) are permitted when domain names are used in SMTP. In other words, names that can be resolved to MX RRs or A RRs (as discussed in section 5) are permitted, as are CNAME RRs whose targets can be resolved, in turn, to MX or A RRs. Local nicknames or unqualified names MUST NOT be used. There are two exceptions to the rule requiring FQDNs:

- The domain name given in the EHLO command MUST BE either a primary host name (a domain name that resolves to
an A RR) or, if the host
has no name, an address literal as described in section 4.1.1.1.

- The reserved mailbox name "postmaster" may be used in a RCPT command without domain qualification (see section 4.1.1.3) and MUST be accepted if so used.

3.7 Relaying

In general, the availability of Mail eXchanger records in the domain name system [22, 27] makes the use of explicit source routes in the Internet mail system unnecessary. Many historical problems with their interpretation have made their use undesirable. SMTP clients SHOULD NOT generate explicit source routes except under unusual circumstances. SMTP servers MAY decline to act as mail relays or to

accept addresses that specify source routes. When route information is encountered, SMTP servers are also permitted to ignore the route information and simply send to the final destination specified as the last element in the route and SHOULD do so. There has been an invalid practice
of using names that do not appear in the DNS as destination names, with the senders counting on the intermediate hosts specified in source routing to resolve any problems. If source routes are stripped, this practice will cause failures. This is one of several reasons why SMTP clients MUST NOT generate invalid source routes or depend on serial resolution of names.

When source routes are not used, the process described in RFC 821 for constructing a reverse-path from the forward-path is not applicable and the reverse-path at the time of delivery will simply be the address that appeared in the MAIL command.

A relay SMTP server is usually the target of a DNS MX record that designates it, rather than the final delivery system. The relay server may accept or reject the task of relaying the mail in the same way it accepts or rejects mail for a local user. If it accepts the task, it then becomes an SMTP client, establishes a transmission channel to the next SMTP server specified in the DNS (according to the rules in section 5), and sends it the mail. If it declines to relay mail to a particular address for policy reasons, a 550 response SHOULD be returned.

Many mail-sending clients exist, especially in conjunction with facilities that receive mail via POP3 or IMAP, that have limited capability to support some of the requirements of this specification, such as the ability to queue messages for subsequent delivery attempts. For these clients, it is common practice to make private arrangements to send all messages to a single server for processing and subsequent distribution. SMTP, as specified here, is not ideally suited for this role, and work is underway on standardized mail submission protocols that might eventually supercede the current practices. In any event, because these arrangements are private and fall outside the scope of this specification, they are not described here.

It is important to note that MX records can point to SMTP servers which act as gateways into other environments, not just SMTP relays and final delivery systems; see sections 3.8 and 5.

If an SMTP server has accepted the task of relaying the mail and later finds that the destination is incorrect or that the mail cannot be delivered for some other reason, then it MUST construct an "undeliverable mail" notification message and send it to the

originator of the undeliverable mail (as indicated by the reverse-path). Formats specified for non-delivery reports by other standards (see, for example, [24, 25]) SHOULD be used if possible.

This notification message must be from the SMTP server at the relay host or the host that first determines that delivery cannot be accomplished. Of course, SMTP servers MUST NOT send notification messages about problems transporting notification messages. One way to prevent loops in error reporting is to specify a null reverse-path in the MAIL command of a notification message. When such a message is transmitted the reverse-path MUST be set to null (see section 4.5.5 for additional discussion). A MAIL command with a null reverse-path appears as follows:

```
MAIL FROM:<>
```

As discussed in section 2.4.1, a relay SMTP has no need to inspect or act upon the headers or body of the message data and MUST NOT do so except to add its own "Received:" header (section 4.4) and, optionally, to attempt to detect looping in the mail system (see section 6.2).

3.8 Mail Gatewaying

While the relay function discussed above operates within the Internet SMTP transport service environment, MX records or various forms of explicit routing may require that an intermediate SMTP server perform a translation function between one transport service and another. As discussed in section 2.3.8, when such a system is at the boundary between two transport service environments, we refer to it as a "gateway" or "gateway SMTP".

Gatewaying mail between different mail environments, such as different mail formats and protocols, is complex and does not easily yield to standardization. However, some general requirements may be given for a gateway between the Internet and another mail environment.

3.8.1 Header Fields in Gatewaying

Header fields MAY be rewritten when necessary as messages are gatewayed across mail environment boundaries. This may involve inspecting the message body or interpreting the local-part of the destination address in spite of the prohibitions in section 2.4.1.

Other mail systems gatewayed to the Internet often use a subset of

RFC 822 headers or provide similar functionality with a different syntax, but some of these mail systems do not have an equivalent to the SMTP envelope. Therefore, when a message leaves the Internet environment, it may be necessary to fold the SMTP envelope information into the message header. A possible solution would be to create new header fields to carry the envelope information (e.g., "X-SMTP-MAIL:" and "X-SMTP-RCPT:"); however, this would require changes in mail programs in foreign environments and might risk disclosure of private information (see section 7.2).

3.8.2 Received Lines in Gatewaying

When forwarding a message into or out of the Internet environment, a gateway MUST prepend a Received: line, but it MUST NOT alter in any way a Received: line that is already in the header.

"Received:" fields of messages originating from other environments may not conform exactly to this specification. However, the most important use of Received: lines is for debugging mail faults, and this debugging can be severely hampered by well-meaning gateways that try to "fix" a Received: line. As another consequence of trace fields arising in non-SMTP environments, receiving systems MUST NOT reject mail based on the format of a trace field and SHOULD be extremely robust in the light of unexpected information or formats in those fields.

The gateway SHOULD indicate the environment and protocol in the "via" clauses of Received field(s) that it supplies.

3.8.3 Addresses in Gatewaying

From the Internet side, the gateway SHOULD accept all valid address formats in SMTP commands and in RFC 822 headers, and all valid RFC 822 messages. Addresses and headers generated by gateways MUST conform to applicable Internet standards (including this one and RFC 822). Gateways are, of course, subject to the same rules for handling source routes as those described for other SMTP systems in section 3.3.

3.8.4 Other Header Fields in Gatewaying

The gateway MUST ensure that all header fields of a message that it forwards into the Internet mail environment meet the requirements for Internet mail. In particular, all addresses in "From:", "To:", "Cc:", etc., fields MUST be transformed (if necessary) to satisfy RFC 822 syntax, MUST reference only fully-qualified domain names, and

MUST be effective and useful for sending replies. The translation algorithm used to convert mail from the Internet protocols to another environment's protocol SHOULD ensure that error messages from the foreign mail environment are delivered to the return path from the SMTP envelope, not to the sender listed in the "From:" field (or other fields) of the RFC 822 message.

3.8.5 Envelopes in Gatewaying

Similarly, when forwarding a message from another environment into the Internet, the gateway SHOULD set the envelope return path in accordance with an error message return address, if supplied by the foreign environment. If the foreign environment has no equivalent concept, the gateway must select and use a best approximation, with the message originator's address as the default of last resort.

3.9 Terminating Sessions and Connections

An SMTP connection is terminated when the client sends a QUIT command. The server responds with a positive reply code, after which it closes the connection.

An SMTP server MUST NOT intentionally close the connection except:

- After receiving a QUIT command and responding with a 221 reply.

- After detecting the need to shut down the SMTP service and returning a 421 response code. This response code can be issued after the server receives any command or, if necessary, asynchronously from command receipt (on the assumption that the client will receive it after the next command is issued).

In particular, a server that closes connections in response to commands that are not understood is in violation of this specification. Servers are expected to be tolerant of unknown commands, issuing a 500 reply and awaiting further instructions from the client.

An SMTP server which is forcibly shut down via external means SHOULD
attempt to send a line containing a 421 response code to the SMTP client before exiting. The SMTP client will normally read the 421 response code after sending its next command.

SMTP clients that experience a connection close, reset, or other communications failure due to circumstances not under their control (in violation of the intent of this specification but sometimes unavoidable) SHOULD, to maintain the robustness of the mail system,

treat the mail transaction as if a 451 response had been received and act accordingly.

3.10 Mailing Lists and Aliases

An SMTP-capable host SHOULD support both the alias and the list models of address expansion for multiple delivery. When a message is delivered or forwarded to each address of an expanded list form, the return address in the envelope ("MAIL FROM:") MUST be changed to be the address of a person or other entity who administers the list. However, in this case, the message header [32] MUST be left unchanged; in particular, the "From" field of the message header is unaffected.

An important mail facility is a mechanism for multi-destination delivery of a single message, by transforming (or "expanding" or "exploding") a pseudo-mailbox address into a list of destination mailbox addresses. When a message is sent to such a pseudo-mailbox (sometimes called an "exploder"), copies are forwarded or redistributed to each mailbox in the expanded list. Servers SHOULD simply utilize the addresses on the list; application of heuristics or other matching rules to eliminate some addresses, such as that of the originator, is strongly discouraged. We classify such a pseudo-mailbox as an "alias" or a "list", depending upon the expansion rules.

3.10.1 Alias

To expand an alias, the recipient mailer simply replaces the pseudo-mailbox address in the envelope with each of the expanded addresses in turn; the rest of the envelope and the message body are left unchanged. The message is then delivered or forwarded to each expanded address.

3.10.2 List

A mailing list may be said to operate by "redistribution" rather than by "forwarding". To expand a list, the recipient mailer replaces the pseudo-mailbox address in the envelope with all of the expanded

addresses. The return address in the envelope is changed so that all error messages generated by the final deliveries will be returned to a list administrator, not to the message originator, who generally has no control over the contents of the list and will typically find error messages annoying.

4. The SMTP Specifications

4.1 SMTP Commands

4.1.1 Command Semantics and Syntax

The SMTP commands define the mail transfer or the mail system function requested by the user. SMTP commands are character strings terminated by <CRLF>. The commands themselves are alphabetic characters terminated by <SP> if parameters follow and <CRLF> otherwise. (In the interest of improved interoperability, SMTP receivers are encouraged to tolerate trailing white space before the terminating <CRLF>.) The syntax of the local part of a mailbox must conform to receiver site conventions and the syntax specified in section 4.1.2. The SMTP commands are discussed below. The SMTP replies are discussed in section 4.2.

A mail transaction involves several data objects which are communicated as arguments to different commands. The reverse-path is the argument of the MAIL command, the forward-path is the argument of the RCPT command, and the mail data is the argument of the DATA command. These arguments or data objects must be transmitted and held pending the confirmation communicated by the end of mail data indication which finalizes the transaction. The model for this is that distinct buffers are provided to hold the types of data objects, that is, there is a reverse-path buffer, a forward-path buffer, and a mail data buffer. Specific commands cause information to be appended to a specific buffer, or cause one or more buffers to be cleared.

Several commands (RSET, DATA, QUIT) are specified as not permitting parameters. In the absence of specific extensions offered by the server and accepted by the client, clients MUST NOT send such parameters and servers SHOULD reject commands containing them as having invalid syntax.

4.1.1.1 Extended HELLO (EHLO) or HELLO (HELO)

These commands are used to identify the SMTP client to the SMTP server. The argument field contains the fully-qualified domain name of the SMTP client if one is available. In situations in which the SMTP client system does not have a meaningful domain name (e.g., when its address is dynamically allocated and no reverse mapping record is

available), the client SHOULD send an address literal (see section 4.1.3), optionally followed by information that will help to identify the client system. y The SMTP server identifies itself to the SMTP

client in the connection greeting reply and in the response to this command.

A client SMTP SHOULD start an SMTP session by issuing the EHLO command. If the SMTP server supports the SMTP service extensions it will give a successful response, a failure response, or an error response. If the SMTP server, in violation of this specification, does not support any SMTP service extensions it will generate an error response. Older client SMTP systems MAY, as discussed above, use HELO (as specified in RFC 821) instead of EHLO, and servers MUST support the HELO command and reply properly to it. In any event, a client MUST issue HELO or EHLO before starting a mail transaction.

These commands, and a "250 OK" reply to one of them, confirm that both the SMTP client and the SMTP server are in the initial state, that is, there is no transaction in progress and all state tables and buffers are cleared.

Syntax:

```
ehlo          = "EHLO" SP Domain CRLF
helo          = "HELO" SP Domain CRLF
```

Normally, the response to EHLO will be a multiline reply. Each line of the response contains a keyword and, optionally, one or more parameters. Following the normal syntax for multiline replies, these keyworks follow the code (250) and a hyphen for all but the last line, and the code and a space for the last line. The syntax for a positive response, using the ABNF notation and terminal symbols of [8], is:

```
ehlo-ok-rsp  =    ( "250"    domain [ SP ehlo-greet ] CRLF )
            / (    "250-"   domain [ SP ehlo-greet ] CRLF
                *( "250-"   ehlo-line              CRLF )
                   "250"    SP ehlo-line           CRLF  )

ehlo-greet   = 1*(%d0-9 / %d11-12 / %d14-127)
            ; string of any characters other than CR or LF

ehlo-line    = ehlo-keyword *( SP
ehlo-param )

ehlo-keyword = (ALPHA / DIGIT) *(ALPHA / DIGIT / "-")
            ; additional syntax of ehlo-params depends on
            ; ehlo-keyword

ehlo-param   = 1*(%d33-127)
```

; any CHAR excluding <SP> and all
; control characters (US-ASCII 0-31 inclusive)

Although EHLO keywords may be specified in upper, lower, or mixed case, they MUST always be recognized and processed in a case-insensitive manner. This is simply an extension of practices specified in RFC 821 and section 2.4.1.

4.1.1.2 MAIL (MAIL)

This command is used to initiate a mail transaction in which the mail data is delivered to an SMTP server which may, in turn, deliver it to one or more mailboxes or pass it on to another system (possibly using SMTP). The argument field contains a reverse-path and may contain optional parameters. In general, the MAIL command may be sent only when no mail transaction is in progress, see section 4.1.4.

The reverse-path consists of the sender mailbox. Historically, that mailbox might optionally have been preceded by a list of hosts, but that behavior is now deprecated (see appendix C). In some types of reporting messages for which a reply is likely to cause a mail loop (for example, mail delivery and nondelivery notifications), the reverse-path may be null (see section 3.7).

This command clears the reverse-path buffer, the forward-path buffer, and the mail data buffer; and inserts the reverse-path information from this command into the reverse-path buffer.

If service extensions were negotiated, the MAIL command may also carry parameters associated with a particular service extension.

Syntax:

```
"MAIL FROM:" ("<>" / Reverse-Path)
             [SP Mail-parameters] CRLF
```

4.1.1.3 RECIPIENT (RCPT)

This command is used to identify an individual recipient of the mail data; multiple recipients are specified by multiple use of this command. The argument field contains a forward-path and may contain optional parameters.

The forward-path normally consists of the required destination mailbox. Sending systems SHOULD not generate the optional list of hosts known as a source route. Receiving systems MUST recognize

source route syntax but SHOULD strip off the source route specification and utilize the domain name associated with the mailbox as if the source route had not been provided.

Similarly, relay hosts SHOULD strip or ignore source routes, and names MUST NOT be copied into the reverse-path. When mail reaches its ultimate destination (the forward-path contains only a destination mailbox), the SMTP server inserts it into the destination mailbox in accordance with its host mail conventions.

For example, mail received at relay host xyz.com with envelope commands

```
MAIL FROM:<userx@y.foo.org>
RCPT TO:<@hosta.int,@jkl.org:userc@d.bar.org>
```

will normally be sent directly on to host d.bar.org with envelope commands

```
MAIL FROM:<userx@y.foo.org>
RCPT TO:<userc@d.bar.org>
```

As provided in appendix C, xyz.com MAY also choose to relay the message to hosta.int, using the envelope commands

```
MAIL FROM:<userx@y.foo.org>
RCPT TO:<@hosta.int,@jkl.org:userc@d.bar.org>
```

or to jkl.org, using the envelope commands

```
MAIL FROM:<userx@y.foo.org>
RCPT TO:<@jkl.org:userc@d.bar.org>
```

Of course, since hosts are not required to relay mail at all, xyz.com may also reject the message entirely when the RCPT command is received, using a 550 code (since this is a "policy reason").

If service extensions were negotiated, the RCPT command may also carry parameters associated with a particular service extension offered by the server. The client MUST NOT transmit parameters other than those associated with a service extension offered by the server in its EHLO response.

Syntax:

```
"RCPT TO:" ("<Postmaster@" domain ">" / "<Postmaster>" / Forward-Path)
            [SP Rcpt-parameters] CRLF
```

4.1.1.4 DATA (DATA)

The receiver normally sends a 354 response to DATA, and then treats the lines (strings ending in <CRLF> sequences, as described in section 2.3.7) following the command as mail data from the sender. This command causes the mail data to be appended to the mail data buffer. The mail data may contain any of the 128 ASCII character codes, although experience has indicated that use of control characters other than SP, HT, CR, and LF may cause problems and SHOULD be avoided when possible.

The mail data is terminated by a line containing only a period, that is, the character sequence "<CRLF>.<CRLF>" (see section 4.5.2). This is the end of mail data indication. Note that the first <CRLF> of this terminating sequence is also the <CRLF> that ends the final line of the data (message text) or, if there was no data, ends the DATA command itself. An extra <CRLF> MUST NOT be added, as that would cause an empty line to be added to the message. The only exception to this rule would arise if the message body were passed to the originating SMTP-sender with a final "line" that did not end in <CRLF>; in that case, the originating SMTP system MUST either reject the message as invalid or add <CRLF> in order to have the receiving SMTP server recognize the "end of data" condition.

The custom of accepting lines ending only in <LF>, as a concession to non-conforming behavior on the part of some UNIX systems, has proven to cause more interoperability problems than it solves, and SMTP server systems MUST NOT do this, even in the name of improved robustness. In particular, the sequence "<LF>.<LF>" (bare line feeds, without carriage returns) MUST NOT be treated as equivalent to <CRLF>.<CRLF> as the end of mail data indication.

Receipt of the end of mail data indication requires the server to process the stored mail transaction information. This processing consumes the information in the reverse-path buffer, the forward-path buffer, and the mail data buffer, and on the completion of this command these buffers are cleared. If the processing is successful, the receiver MUST send an OK reply. If the processing fails the receiver MUST send a failure reply. The SMTP model does not allow for partial failures at this point: either the message is accepted by the server for delivery and a positive response is returned or it is not accepted and a failure reply is returned. In sending a positive completion reply to the end of data indication, the receiver takes full responsibility for the message (see section 6.1). Errors that are diagnosed subsequently MUST be reported in a mail message, as discussed in section 4.4.

When the SMTP server accepts a message either for relaying or for final delivery, it inserts a trace record (also referred to interchangeably as a "time stamp line" or "Received" line) at the top of the mail data. This trace record indicates the identity of the host that sent the message, the identity of the host that received the message (and is inserting this time stamp), and the date and time the message was received. Relayed messages will have multiple time stamp lines. Details for formation of these lines, including their syntax, is specified in section 4.4.

Additional discussion about the operation of the DATA command appears in section 3.3.

Syntax:
"DATA" CRLF

4.1.1.5 RESET (RSET)

This command specifies that the current mail transaction will be aborted. Any stored sender, recipients, and mail data MUST be discarded, and all buffers and state tables cleared. The receiver MUST send a "250 OK" reply to a RSET command with no arguments. A reset command may be issued by the client at any time. It is effectively equivalent to a NOOP (i.e., if has no effect) if issued immediately after EHLO, before EHLO is issued in the session, after an end-of-data indicator has been sent and acknowledged, or immediately before a QUIT. An SMTP server MUST NOT close the connection as the result of receiving a RSET; that action is reserved for QUIT (see section 4.1.1.10).

Since EHLO implies some additional processing and response by the server, RSET will normally be more efficient than reissuing that command, even though the formal semantics are the same.

There are circumstances, contrary to the intent of this specification, in which an SMTP server may receive an indication that the underlying TCP connection has been closed or reset. To preserve the robustness of the mail system, SMTP servers SHOULD be prepared for this condition and SHOULD treat it as if a QUIT had been received before the connection disappeared.

Syntax:
"RSET" CRLF

4.1.1.6 VERIFY (VRFY)

This command asks the receiver to confirm that the argument identifies a user or mailbox. If it is a user name, information is returned as specified in section 3.5.

This command has no effect on the reverse-path buffer, the forward-path buffer, or the mail data buffer.

Syntax:
"VRFY" SP String CRLF

4.1.1.7 EXPAND (EXPN)

This command asks the receiver to confirm that the argument identifies a mailing list, and if so, to return the membership of that list. If the command is successful, a reply is returned containing information as described in section 3.5. This reply will have multiple lines except in the trivial case of a one-member list.

This command has no effect on the reverse-path buffer, the forward-path buffer, or the mail data buffer and may be issued at any time.

Syntax:
"EXPN" SP String CRLF

4.1.1.8 HELP (HELP)

This command causes the server to send helpful information to the client. The command MAY take an argument (e.g., any command name) and return more specific information as a response.

This command has no effect on the reverse-path buffer, the forward-path buffer, or the mail data buffer and may be issued at any time.

SMTP servers SHOULD support HELP without arguments and MAY support it with arguments.

Syntax:
"HELP" [SP String] CRLF

4.1.1.9 NOOP (NOOP)

This command does not affect any parameters or previously entered commands. It specifies no action other than that the receiver send an OK reply.

This command has no effect on the reverse-path buffer, the forward-

path buffer, or the mail data buffer and may be issued at any time.
If a parameter string is specified, servers SHOULD ignore it.

Syntax:
"NOOP" [SP String] CRLF

4.1.1.10 QUIT (QUIT)

This command specifies that the receiver MUST send an OK reply, and then close the transmission channel.

The receiver MUST NOT intentionally close the transmission channel until it receives and replies to a QUIT command (even if there was an error). The sender MUST NOT intentionally close the transmission channel until it sends a QUIT command and SHOULD wait until it receives the reply (even if there was an error response to a previous command). If the connection is closed prematurely due to violations of the above or system or network failure, the server MUST cancel any pending transaction, but not undo any previously completed transaction, and generally MUST act as if the command or transaction in progress had received a temporary error (i.e., a 4yz response).

The QUIT command may be issued at any time.

Syntax:
"QUIT" CRLF

4.1.2 Command Argument Syntax

The syntax of the argument fields of the above commands (using the syntax specified in [8] where applicable) is given below. Some of the productions given below are used only in conjunction with source routes as described in appendix C.
Terminals not defined in this document, such as ALPHA, DIGIT, SP, CR, LF, CRLF, are as defined in the "core" syntax [8 (section 6)] or in the message format syntax [32].

```
Reverse-path = Path
Forward-path = Path
Path = "<" [ A-d-l ":" ] Mailbox ">"
A-d-l = At-domain *( "," A-d-l )
      ; Note that this form, the so-called "source route",
      ; MUST BE accepted, SHOULD NOT be generated, and SHOULD be
      ; ignored.
At-domain = "@" domain
Mail-parameters = esmtp-param *(SP esmtp-param)
```

```
   Rcpt-parameters = esmtp-param *(SP esmtp-param)

   esmtp-param     = esmtp-keyword ["=" esmtp-value]
   esmtp-keyword   = (ALPHA / DIGIT) *(ALPHA / DIGIT / "-")
   esmtp-value     = 1*(%d33-60 / %d62-127)
        ; any CHAR excluding "=", SP, and control characters
   Keyword  = Ldh-str
   Argument = Atom
   Domain = (sub-domain 1*("." sub-domain)) / address-literal
   sub-domain = Let-dig [Ldh-str]

   address-literal
= "[" IPv4-address-literal /
                    IPv6-address-literal /
                    General-address-literal "]"
        ; See section 4.1.3

   Mailbox = Local-part "@" Domain

   Local-part = Dot-string / Quoted-string
        ; MAY be case-sensitive

   Dot-string = Atom *("." Atom)

   Atom = 1*atext

   Quoted-string = DQUOTE *qcontent DQUOTE

   String = Atom / Quoted-string
```

While the above definition for Local-part is relatively permissive, for maximum interoperability, a host that expects to receive mail SHOULD avoid defining mailboxes where the Local-part requires (or uses) the Quoted-string form or where the Local-part is case-sensitive. For any purposes that require generating or comparing Local-parts (e.g., to specific mailbox names), all quoted forms MUST be treated as equivalent and the sending system SHOULD transmit the form that uses the minimum quoting possible.

Systems MUST NOT define mailboxes in such a way as to require the use in SMTP of non-ASCII characters (octets with the high order bit set to one) or ASCII "control characters" (decimal value 0-31 and 127). These characters MUST NOT be used in MAIL or RCPT commands or other commands that require mailbox names.

Note that the backslash, "\", is a quote character, which is used to indicate that the next character is to be used literally (instead of

its normal interpretation). For example, "Joe\,Smith" indicates a single nine character user field with the comma being the fourth character of the field.

To promote interoperability and consistent with long-standing guidance about conservative use of the DNS in naming and applications (e.g., see section 2.3.1 of the base DNS document, RFC1035 [22]), characters outside the set of alphas, digits, and hyphen MUST NOT appear in domain name labels for SMTP clients or servers. In particular, the underscore character is not permitted. SMTP servers that receive a command in which invalid character codes have been employed, and for which there are no other reasons for rejection, MUST reject that command with a 501 response.

4.1.3 Address Literals

Sometimes a host is not known to the domain name system and communication (and, in particular, communication to report and repair the error) is blocked. To bypass this barrier a special literal form of the address is allowed as an alternative to a domain name. For IPv4 addresses, this form uses four small decimal integers separated by dots and enclosed by brackets such as [123.255.37.2], which indicates an (IPv4) Internet Address in sequence-of-octets form. For IPv6 and other forms of addressing that might eventually be standardized, the form consists of a standardized "tag" that identifies the address syntax, a colon, and the address itself, in a format specified as part of the IPv6 standards [17].

Specifically:

```
 IPv4-address-literal = Snum 3("." Snum)
IPv6-address-literal = "IPv6:" IPv6-addr
General-address-literal = Standardized-tag ":" 1*dcontent
Standardized-tag = Ldh-str
     ; MUST be specified in a standards-track RFC
     ; and registered with IANA

Snum = 1*3DIGIT  ; representing a decimal integer
     ; value in the range 0 through 255
Let-dig = ALPHA / DIGIT
Ldh-str = *( ALPHA / DIGIT / "-" ) Let-dig

IPv6-addr = IPv6-full / IPv6-comp / IPv6v4-full / IPv6v4-comp
IPv6-hex  = 1*4HEXDIG
IPv6-full = IPv6-hex 7(":" IPv6-hex)
IPv6-comp = [IPv6-hex *5(":" IPv6-hex)] "::" [IPv6-hex *5(":"
        IPv6-hex)]
```

```
        ; The "::" represents at least 2 16-bit groups of zeros
        ; No more than 6 groups in addition to the "::" may be
        ; present
    IPv6v4-full = IPv6-hex 5(":" IPv6-hex) ":" IPv4-address-literal
    IPv6v4-comp = [IPv6-hex *3(":" IPv6-hex)] "::"


          [IPv6-hex *3(":" IPv6-hex) ":"] IPv4-address-literal
        ; The "::" represents at least 2 16-bit groups of zeros
        ; No more than 4 groups in addition to the "::" and
        ; IPv4-address-literal may be present
```

4.1.4 Order of Commands

There are restrictions on the order in which these commands may be used.

A session that will contain mail transactions MUST first be initialized by the use of the EHLO command. An SMTP server SHOULD accept commands for non-mail transactions (e.g., VRFY or EXPN) without this initialization.

An EHLO command MAY be issued by a client later in the session. If it is issued after the session begins, the SMTP server MUST clear all buffers and reset the state exactly as if a RSET command had been issued. In other words, the sequence of RSET followed immediately by EHLO is redundant, but not harmful other than in the performance cost of executing unnecessary commands.

If the EHLO command is not acceptable to the SMTP server, 501, 500, or 502 failure replies MUST be returned as appropriate. The SMTP server MUST stay in the same state after transmitting these replies that it was in before the EHLO was received.

The SMTP client MUST, if possible, ensure that the domain parameter to the EHLO command is a valid principal host name (not a CNAME or MX name) for its host. If this is not possible (e.g., when the client's address is dynamically assigned and the client does not have an obvious name), an address literal SHOULD be substituted for the domain name and supplemental information provided that will assist in identifying the client.

An SMTP server MAY verify that the domain name parameter in the EHLO command actually corresponds to the IP address of the client. However, the server MUST NOT refuse to accept a message for this reason if the verification fails: the information about verification failure is for logging

and tracing only.

The NOOP, HELP, EXPN, VRFY, and RSET commands can be used at any time during a session, or without previously initializing a session. SMTP servers SHOULD process these normally (that is, not return a 503 code) even if no EHLO command has yet been received; clients SHOULD open a session with EHLO before sending these commands.

If these rules are followed, the example in RFC 821 that shows "550 access denied to you" in response to an EXPN command is incorrect unless an EHLO command precedes the EXPN or the denial of access is based on the client's IP address or other authentication or authorization-determining mechanisms.

The MAIL command (or the obsolete SEND, SOML, or SAML commands) begins a mail transaction. Once started, a mail transaction consists of a transaction beginning command, one or more RCPT commands, and a DATA command, in that order. A mail transaction may be aborted by the RSET (or a new EHLO) command.
There may be zero or more
transactions in a session. MAIL (or SEND, SOML, or SAML) MUST NOT be sent if a mail transaction is already open, i.e., it should be sent only if no mail transaction had been started in the session, or it the previous one successfully concluded with a successful DATA command, or if the previous one was aborted with a RSET.

If the transaction beginning command argument is not acceptable, a 501 failure reply MUST be returned and the SMTP server MUST stay in the same state. If the commands in a transaction are out of order to the degree that they cannot be processed by the server, a 503 failure reply MUST be returned and the SMTP server MUST stay in the same state.

The last command in a session MUST be the QUIT command. The QUIT command cannot be used at any other time in a session, but SHOULD be used by the client SMTP to request connection closure, even when no session opening command was sent and accepted.

4.1.5
Private-use Commands

As specified in section 2.2.2, commands starting in "X" may be used by bilateral agreement between the client (sending) and server (receiving) SMTP agents. An SMTP server that does not recognize such a command is expected to reply with "500 Command not recognized". An extended SMTP server MAY list the feature names associated with these private commands in the response to the EHLO command.

Commands sent or accepted by SMTP systems that do not start with "X" MUST conform to the requirements of section 2.2.2.

4.2 SMTP Replies

Replies to SMTP commands serve to ensure the synchronization of requests and actions in the process of mail transfer and to guarantee that the SMTP client always knows the state of the SMTP server. Every command MUST generate exactly one reply.

The details of the command-reply sequence are described in section 4.3.

An SMTP reply consists of a three digit number (transmitted as three numeric characters) followed by some text unless specified otherwise in this document. The number is for use by automata to determine what state to enter next; the text is for the human user. The three digits contain enough encoded information that the SMTP client need not examine the text and may either discard it or pass it on to the user, as appropriate. Exceptions are as noted elsewhere in this document. In particular, the 220, 221, 251, 421, and 551 reply codes are associated with message text that must be parsed and interpreted by machines. In the general case, the text may be receiver dependent and context dependent, so there are likely to be varying texts for each reply code. A discussion of the theory of reply codes is given in section 4.2.1. Formally, a reply is defined to be the sequence: a three-digit code, <SP>, one line of text, and <CRLF>, or a multiline reply (as defined in section 4.2.1). Since, in violation of this specification, the text is sometimes not sent, clients which do not receive it SHOULD be prepared to process the code alone (with or without a trailing space character). Only the EHLO, EXPN, and HELP commands are expected to result in multiline replies in normal circumstances, however, multiline replies are allowed for any command.

In ABNF, server responses are:

```
Greeting = "220 " Domain [ SP text ] CRLF
Reply-line = Reply-code [ SP text ] CRLF
```

where "Greeting" appears only in the 220 response that announces that the server is opening its part of the connection.

An SMTP server SHOULD send only the reply codes listed in this document. An SMTP server SHOULD use the text shown in the examples whenever appropriate.

An SMTP client MUST determine its actions only by the reply code, not by the text (except for the "change of address" 251 and 551 and, if necessary, 220, 221, and 421 replies); in the general case, any text, including no text at all (although senders SHOULD NOT send bare codes), MUST be acceptable. The space (blank) following the reply code is considered part of the text. Whenever possible, a receiver-SMTP SHOULD test the first digit (severity indication) of the reply code.

The list of codes that appears below MUST NOT be construed as permanent. While the addition of new codes should be a rare and significant activity, with supplemental information in the textual part of the response being preferred, new codes may be added as the result of new Standards or Standards-track specifications. Consequently, a sender-SMTP MUST be prepared to handle codes not specified in this document and MUST do so by interpreting the first digit only.

4.2.1 Reply Code Severities and Theory

The three digits of the reply each have a special significance. The first digit denotes whether the response is good, bad or incomplete. An unsophisticated SMTP client, or one that receives an unexpected code, will be able to determine its next action (proceed as planned, redo, retrench, etc.) by examining this first digit. An SMTP client that wants to know approximately what kind of error occurred (e.g., mail system error, command syntax error) may examine the second digit. The third digit and any supplemental information that may be present is reserved for the finest gradation of information.

There are five values for the first digit of the reply code:

1yz Positive Preliminary reply
The command has been accepted, but the requested action is being held in abeyance, pending confirmation of the information in this reply. The SMTP client should send another command specifying whether to continue or abort the action. Note: unextended SMTP does not have any commands that allow this type of reply, and so does not have continue or abort commands.

2yz Positive Completion reply
The requested action has been successfully completed. A new request may be initiated.

3yz Positive Intermediate reply
The command has been accepted, but the requested action is being held in abeyance, pending receipt of further information. The SMTP client should send another command specifying this information. This reply is used in command sequence groups (i.e., in DATA).

4yz Transient Negative Completion reply
The command was not accepted, and the requested action did not occur. However, the error condition is temporary and the action may be requested again. The sender should return to the beginning of the command sequence (if any). It is difficult to assign a meaning to "transient" when two different sites (receiver- and

sender-SMTP agents) must agree on the interpretation. Each reply in this category might have a different time value, but the SMTP client is encouraged to try again. A rule of thumb
to determine
whether a reply fits into the 4yz or the 5yz category (see below) is that replies are 4yz if they can be successful if repeated without any change in command form or in properties of the sender or receiver (that is, the command is repeated identically and the receiver does not put up a new implementation.)

5yz Permanent Negative Completion reply
The command was not accepted and the requested action did not occur. The SMTP client is discouraged from repeating the exact request (in the same sequence). Even some "permanent" error conditions can be corrected, so the human user may want to direct the SMTP client to reinitiate the command sequence by direct action at some point in the future (e.g., after the spelling has been changed, or the user has altered the account status).

The second digit encodes responses in specific categories:

x0z Syntax: These replies refer to syntax errors, syntactically correct commands that do not fit any functional category, and unimplemented or superfluous commands.

x1z Information: These are replies to requests for information, such as status or help.

x2z Connections: These are replies referring to the transmission channel.

x3z Unspecified.

x4z Unspecified.

x5z Mail system: These replies indicate the status of the receiver mail system vis-a-vis the requested transfer or other mail system action.

The third digit gives a finer gradation of meaning in each category specified by the second digit. The list of replies illustrates this. Each reply text is recommended rather than mandatory, and may even change according to the command with which it is associated. On the other hand, the reply codes must strictly follow the specifications in this section. Receiver implementations should not invent new codes for slightly different situations from the ones described here, but rather adapt codes already defined.

For example, a command such as NOOP, whose successful execution does not offer the SMTP client any new information, will return a 250 reply. The reply is 502 when the command requests an unimplemented non-site-specific action. A refinement of that is the 504 reply for a command that is implemented, but that requests an unimplemented parameter.

The reply text may be longer than a single line; in these cases the complete text must be marked so the SMTP client knows when it can stop reading the reply. This requires a special format to indicate a multiple line reply.

The format for multiline replies requires that every line, except the last, begin with the reply code, followed immediately by a hyphen, "-" (also known as minus), followed by text. The last line will begin with the reply code, followed immediately by <SP>, optionally some text, and <CRLF>. As noted above, servers SHOULD send the <SP> if subsequent text is not sent, but clients MUST be prepared for it to be omitted.

For example:

```
123-First line
123-Second line
123-234 text beginning with numbers
123 The last line
```

In many cases the SMTP client then simply needs to search for a line beginning with the reply code followed by <SP> or <CRLF> and ignore all preceding lines. In a few cases, there is important data for the client in the reply "text". The client will be able to identify these cases from the current context.

4.2.2 Reply Codes by Function Groups

500 Syntax error, command unrecognized
(This may include errors such as command line too long)
501 Syntax error in parameters or arguments
502 Command not implemented (see section 4.2.4)
503 Bad sequence of commands
504 Command parameter not implemented

211 System status, or system help reply
214 Help message
(Information on how to use the
receiver or the meaning of a
particular non-standard command; this reply is useful only
to the human user)

220 <domain> Service ready
221 <domain> Service closing transmission channel
421 <domain> Service not available, closing transmission channel
(This may be a reply to any command if the service knows it
must shut down)

250 Requested mail action okay, completed
251 User not local; will forward to <forward-path>
(See section 3.4)
252 Cannot VRFY user, but will accept message and attempt
delivery
(See section 3.5.3)
450 Requested mail action not taken: mailbox unavailable
(e.g., mailbox busy)
550 Requested action not taken: mailbox unavailable
(e.g., mailbox not found, no access, or command rejected
for policy reasons)
451 Requested action aborted: error in processing
551 User not local; please try <forward-path>
(See section
3.4)
452 Requested action not taken: insufficient system storage
552 Requested mail action aborted: exceeded storage allocation
553 Requested action not taken: mailbox name not allowed
(e.g., mailbox syntax incorrect)
354 Start mail input; end with <CRLF>.<CRLF>
554 Transaction failed (Or, in the case of a connection-opening
response, "No SMTP service here")

4.2.3 Reply Codes in Numeric Order

211 System status, or system help reply
214 Help message
(Information on how to use the receiver or the meaning of a particular non-standard command; this reply is useful only to the human user)
220 <domain> Service ready
221 <domain> Service closing transmission channel
250 Requested mail action okay, completed
251 User not local; will forward to <forward-path>
(See section 3.4)
252 Cannot VRFY user, but will accept message and attempt delivery
(See section 3.5.3)

354 Start mail input; end with <CRLF>.<CRLF>

421 <domain> Service not available, closing transmission channel
(This may be a reply to any command if the service knows it must shut down)
450 Requested mail action not taken: mailbox unavailable
(e.g., mailbox busy)
451 Requested action aborted: local error in processing
452 Requested action not taken: insufficient system storage
500 Syntax error, command unrecognized
(This may include errors such as command line too long)
501 Syntax error in parameters or arguments
502 Command not implemented (see section 4.2.4)
503 Bad sequence of commands
504 Command parameter not implemented
550 Requested action not taken: mailbox unavailable
(e.g., mailbox not found, no access, or command rejected for policy reasons)
551 User not local; please try <forward-path>
(See section 3.4)
552 Requested mail action aborted: exceeded storage allocation
553 Requested action not taken: mailbox name not allowed
(e.g., mailbox syntax incorrect)
554 Transaction failed (Or, in the case of a connection-opening response, "No SMTP service here")

4.2.4 Reply Code 502

Questions have been raised as to when reply code 502 (Command not implemented) SHOULD be returned in preference to other codes. 502 SHOULD be used when the command is actually recognized by the SMTP server, but not implemented. If the command is not recognized, code

500 SHOULD be returned. Extended SMTP systems MUST NOT list capabilities in response to EHLO for which they will return 502 (or 500) replies.

4.2.5 Reply Codes After DATA and the Subsequent <CRLF>.<CRLF>

When an SMTP server returns a positive completion status (2yz code) after the DATA command is completed with <CRLF>.<CRLF>, it accepts responsibility for:

- delivering the message (if the recipient mailbox exists), or

- if attempts to deliver the message fail due to transient conditions, retrying delivery some reasonable number of times at intervals as specified in section 4.5.4.

- if attempts to deliver the message fail due to permanent conditions, or if repeated attempts to deliver the message fail due to transient conditions, returning appropriate notification to the sender of the original message (using the address in the SMTP MAIL command).

When an SMTP server returns a permanent error status (5yz) code after the DATA command is completed with <CRLF>.<CRLF>, it MUST NOT make any subsequent attempt to deliver that message. The SMTP client retains responsibility for delivery of that message and may either return it to the user or requeue it for a subsequent attempt (see section 4.5.4.1).

The user who originated the message SHOULD be able to interpret the return of a transient failure status (by mail message or otherwise) as a non-delivery indication, just as a permanent failure would be interpreted. I.e., if the client SMTP successfully handles these conditions, the user will not receive such a reply.

When an SMTP server returns a permanent error status (5yz) code after the DATA command is completely with <CRLF>.<CRLF>, it MUST NOT make any subsequent attempt to deliver the message. As with temporary error status codes, the SMTP client retains responsibility for the message, but SHOULD not again attempt delivery to the same server without user review and intervention of the message.

4.3 Sequencing of Commands and Replies

4.3.1 Sequencing Overview

The communication between the sender and receiver is an alternating dialogue, controlled by the sender. As such, the sender issues a command and the receiver responds with a reply. Unless other arrangements are negotiated through service extensions, the sender MUST wait for this response before sending further commands.

One important reply is the connection greeting. Normally, a receiver will send a 220 "Service ready" reply when the connection is completed. The sender SHOULD wait for this greeting message before sending any commands.

Note: all the greeting-type replies have the official name (the fully-qualified primary domain name) of the server host as the first word following the reply code. Sometimes the host will have no meaningful name. See 4.1.3 for a discussion of alternatives in these situations.

For example,

```
   220 ISIF.USC.EDU Service ready
or
   220 mail.foo.com SuperSMTP v 6.1.2 Service ready
or
   220 [10.0.0.1] Clueless host service ready
```

The table below lists alternative success and failure replies for each command. These SHOULD be strictly adhered to: a receiver may substitute text in the replies, but the meaning and action implied by the code numbers and by the specific command reply sequence cannot be altered.

4.3.2 Command-Reply Sequences

Each command is listed with its usual possible replies. The prefixes used before the possible replies are "I" for intermediate, "S" for success, and "E" for error. Since some servers may generate other replies under special circumstances, and to allow for future extension, SMTP clients SHOULD, when possible, interpret only the first digit of the reply and MUST be prepared to deal with unrecognized reply codes by interpreting the first digit only. Unless extended using the mechanisms described in section 2.2, SMTP servers MUST NOT transmit reply codes to an SMTP client that are other than three digits or that do not start in a digit between 2 and 5 inclusive.

These sequencing rules and, in principle, the codes themselves, can

be extended or modified by SMTP extensions offered by the server and accepted (requested) by the client.

In addition to the codes listed below, any SMTP command can return any of the following codes if the corresponding unusual circumstances are encountered:

500 For the "command line too long" case or if the command name was not recognized. Note that producing a "command not recognized" error in response to the required subset of these commands is a violation of this specification.

501 Syntax error in command or arguments. In order to provide for future extensions, commands that are specified in this document as not accepting arguments (DATA, RSET, QUIT) SHOULD return a 501 message if arguments are supplied in the absence of EHLO-advertised extensions.

421 Service shutting down and closing transmission channel

Specific sequences are:

CONNECTION ESTABLISHMENT
  S: 220
  E: 554
EHLO or HELO
  S: 250
  E: 504, 550
MAIL
  S: 250
  E: 552, 451, 452, 550, 553, 503
RCPT
  S: 250, 251 (but see section 3.4 for discussion of 251 and 551)

  E: 550, 551, 552, 553, 450, 451, 452, 503, 550
DATA
  I: 354 -> data -> S: 250
                E: 552, 554, 451, 452
  E: 451, 554, 503
RSET
  S: 250
VRFY
  S: 250, 251, 252
  E: 550, 551, 553, 502, 504
EXPN
  S: 250, 252
  E: 550, 500, 502, 504

HELP
S: 211, 214
E: 502, 504
NOOP
S: 250
QUIT
S: 221

4.4 Trace Information

When an SMTP server receives a message for delivery or further processing, it MUST insert trace ("time stamp" or "Received") information at the beginning of the message content, as discussed in section 4.1.1.4.

This line MUST be structured as follows:

- The FROM field, which MUST be supplied in an SMTP environment, SHOULD contain both (1) the name of the source host as presented in the EHLO command and (2) an address literal containing the IP address of the source, determined from the TCP connection.

- The ID field MAY contain an "@" as suggested in RFC 822, but this is not required.

- The FOR field MAY contain a list of <path> entries when multiple RCPT commands have been given. This may raise some security issues and is usually not desirable; see section 7.2.

An Internet mail program MUST NOT change a Received: line that was previously added to the message header. SMTP servers MUST prepend Received lines to messages; they MUST NOT change the order of existing lines or insert Received lines in any other location.

As the Internet grows, comparability of Received fields is important for detecting problems, especially slow relays. SMTP servers that create Received fields SHOULD use explicit offsets in the dates (e.g., -0800), rather than time zone names of any type. Local time (with an offset) is preferred to UT when feasible. This formulation allows slightly more information about local circumstances to be specified. If UT is needed, the receiver need merely do some simple arithmetic to convert the values. Use of UT loses information about the time zone-location of the server. If it is desired to supply a time zone name, it SHOULD be included in a comment.

When the delivery SMTP server makes the "final delivery" of a

message, it inserts a return-path line at the beginning of the mail data. This use of return-path is required; mail systems MUST support it. The return-path line preserves the information in the <reverse-path> from the MAIL command. Here, final delivery means the message has left the SMTP environment. Normally, this would mean it had been delivered to the destination user or an associated mail drop, but in some cases it may be further processed and transmitted by another mail system.

It is possible for the mailbox in the return path to be different from the actual sender's mailbox, for example, if error responses are to be delivered to a special error handling mailbox rather than to the message sender. When mailing lists are involved, this arrangement is common and useful as a means of directing errors to the list maintainer rather than the message originator.

The text above implies that the final mail data will begin with a return path line, followed by one or more time stamp lines. These lines will be followed by the mail data headers and body [32].

It is sometimes difficult for an SMTP server to determine whether or not it is making final delivery since forwarding or other operations may occur after the message is accepted for delivery. Consequently,

any further (forwarding, gateway, or relay) systems MAY remove the return path and rebuild the MAIL command as needed to ensure that exactly one such line appears in a delivered message.

A message-originating SMTP system SHOULD NOT send a message that already contains a Return-path header. SMTP servers performing a relay function MUST NOT inspect the message data, and especially not to the extent needed to determine if Return-path headers are present. SMTP servers making final delivery MAY remove Return-path headers before adding their own.

The primary purpose of the Return-path is to designate the address to which messages indicating non-delivery or other mail system failures are to be sent. For this to be unambiguous, exactly one return path SHOULD be present when the message is delivered. Systems using RFC 822 syntax with non-SMTP transports SHOULD designate an unambiguous address, associated with the transport envelope, to which error reports (e.g., non-delivery messages) should be sent.

Historical note: Text in RFC 822 that appears to contradict the use of the Return-path header (or the envelope reverse path address from the MAIL command) as the destination for error messages is not

applicable on the Internet. The reverse path address (as copied into the Return-path) MUST be used as the target of any mail containing delivery error messages.

In particular:

- a gateway from SMTP->elsewhere SHOULD insert a return-path header, unless it is known that the "elsewhere" transport also uses Internet domain addresses and maintains the envelope sender address separately.

- a gateway from elsewhere->SMTP SHOULD delete any return-path header present in the message, and either copy that information to the SMTP envelope or combine it with information present in the envelope of the other transport system to construct the reverse path argument to the MAIL command in the SMTP envelope.

The server must give special treatment to cases in which the processing following the end of mail data indication is only partially successful. This could happen if, after accepting several recipients and the mail data, the SMTP server finds that the mail data could be successfully delivered to some, but not all, of the recipients. In such cases, the response to the DATA command MUST be an OK reply. However, the SMTP server MUST compose and send an "undeliverable mail" notification message to the originator of the message.

A single notification listing all of the failed recipients or separate notification messages MUST be sent for each failed recipient. For economy of processing by the sender, the former is preferred when possible. All undeliverable mail notification messages are sent using the MAIL command (even if they result from processing the obsolete SEND, SOML, or SAML commands) and use a null return path as discussed in section 3.7.

The time stamp line and the return path line are formally defined as follows:

```
Return-path-line = "Return-Path:" FWS Reverse-path <CRLF>

Time-stamp-line = "Received:" FWS Stamp <CRLF>

Stamp = From-domain By-domain Opt-info ";"  FWS date-time

    ; where "date-time" is as defined in [32]
    ; but the "obs-" forms, especially
```

two-digit
; years, are prohibited in SMTP and MUST NOT be used.

From-domain = "FROM" FWS Extended-Domain CFWS

By-domain = "BY" FWS Extended-Domain CFWS

Extended-Domain = Domain /
(Domain FWS "(" TCP-info ")") /
(Address-literal FWS "(" TCP-info ")")

TCP-info = Address-literal / (Domain FWS Address-literal)
; Information derived by server from TCP connection
; not client EHLO.

Opt-info = [Via] [With] [ID] [For]

Via = "VIA" FWS Link CFWS

With = "WITH" FWS Protocol CFWS

ID = "ID" FWS String / msg-id CFWS

For = "FOR" FWS 1*(Path / Mailbox) CFWS

Link = "TCP" / Addtl-Link
Addtl-Link = Atom
; Additional standard names for links are registered with the
; Internet Assigned Numbers Authority (IANA). "Via" is
; primarily of value with non-Internet transports. SMTP

; servers SHOULD NOT use unregistered names.
Protocol = "ESMTP" / "SMTP" / Attdl-Protocol
Attdl-Protocol = Atom
; Additional standard
names for protocols are registered with the
; Internet Assigned Numbers Authority (IANA). SMTP servers
; SHOULD NOT use unregistered names.

4.5 Additional Implementation Issues

4.5.1 Minimum Implementation

In order to make SMTP workable, the following minimum implementation is required for all receivers. The following commands MUST be supported to conform to this specification:

EHLO

HELO
MAIL
RCPT
DATA
RSET
NOOP
QUIT
VRFY

Any system that includes an SMTP server supporting mail relaying or delivery MUST support the reserved mailbox "postmaster" as a case-insensitive local name. This postmaster address is not strictly necessary if the server always returns 554 on connection opening (as described in section 3.1). The requirement to accept mail for postmaster implies that RCPT commands which specify a mailbox for postmaster at any of the domains for which the SMTP server provides mail service, as well as the special case of "RCPT TO:<Postmaster>" (with no domain specification), MUST be supported.

SMTP systems are expected to make every reasonable effort to accept mail directed to Postmaster from any other system on the Internet. In extreme cases --such as to contain a denial of service attack or other breach of security-- an SMTP server may block mail directed to Postmaster. However, such arrangements SHOULD be narrowly tailored so as to avoid blocking messages which are not part of such attacks.

4.5.2 Transparency

Without some provision for data transparency, the character sequence "<CRLF>.<CRLF>" ends the mail text and cannot be sent by the user. In general, users are not aware of such "forbidden" sequences. To

allow all user composed text to be transmitted transparently, the following procedures are used:

- Before sending a line of mail text, the SMTP client checks the first character of the line.
If it is a period, one additional
period is inserted at the beginning of the line.

- When a line of mail text is received by the SMTP server, it checks the line. If the line is composed of a single period, it is treated as the end of mail indicator. If the first character is a period and there are other characters on the line, the first character is deleted.

The mail data may contain any of the 128 ASCII characters. All characters are to be delivered to the recipient's mailbox, including

spaces, vertical and horizontal tabs, and other control characters. If the transmission channel provides an 8-bit byte (octet) data stream, the 7-bit ASCII codes are transmitted right justified in the octets, with the high order bits cleared to zero. See 3.7 for special treatment of these conditions in SMTP systems serving a relay function.

In some systems it may be necessary to transform the data as it is received and stored. This may be necessary for hosts that use a different character set than ASCII as their local character set, that store data in records rather than strings, or which use special character sequences as delimiters inside mailboxes. If such transformations are necessary, they MUST be reversible, especially if they are applied to mail being relayed.

4.5.3 Sizes and Timeouts

4.5.3.1 Size limits and minimums

There are several objects that have required minimum/maximum sizes. Every implementation MUST be able to receive objects of at least these sizes. Objects larger than these sizes SHOULD be avoided when possible. However, some Internet mail constructs such as encoded X.400 addresses [16] will often require larger objects: clients MAY attempt to transmit these, but MUST be prepared for a server to reject them if they cannot be handled by it. To the maximum extent possible, implementation techniques which impose no limits on the length of these objects should be used.

local-part
: The maximum total length of a user name or other local-part is 64 characters.

domain
: The maximum total length of a domain name or number is 255 characters.

path
: The maximum total length of a reverse-path or forward-path is 256 characters (including the punctuation and element separators).

command line
: The maximum total length of a command line including the command word and the <CRLF> is 512 characters. SMTP extensions may be used to increase this limit.

reply line

The maximum total length of a reply line including the reply code and the <CRLF> is 512 characters. More information may be conveyed through multiple-line replies.

text line

The maximum total length of a text line including the <CRLF> is 1000 characters (not counting the leading dot duplicated for transparency). This number may be increased by the use of SMTP Service Extensions.

message content

The maximum total length of a message content (including any message headers as well as the message body) MUST BE at least 64K octets. Since the introduction of Internet standards for multimedia mail [12], message lengths on the Internet have grown dramatically, and message size restrictions should be avoided if at all possible. SMTP server systems that must impose restrictions SHOULD implement the "SIZE" service extension [18], and SMTP client systems that will send large messages SHOULD utilize it when possible.

recipients buffer

The minimum total number of recipients that must be buffered is 100 recipients. Rejection of messages (for excessive recipients) with fewer than 100 RCPT commands is a violation of this specification. The general principle that relaying SMTP servers MUST NOT, and delivery SMTP servers SHOULD NOT, perform validation tests on message
headers suggests that rejecting a message based on the total number of recipients shown in header fields is to be discouraged. A server which imposes a limit on the number of recipients MUST behave in an orderly fashion, such as to reject additional addresses over its limit rather than silently discarding addresses previously accepted. A client that needs to

deliver a message containing over 100 RCPT commands SHOULD be prepared to transmit in 100-recipient "chunks" if the server declines to accept more than 100 recipients in a single message.

Errors due to exceeding these limits may be reported by using the reply codes. Some examples of reply codes are:

500 Line too long.
or
501 Path too long
or
452 Too many recipients (see below)

or
552 Too much mail data.

RFC 821 [30] incorrectly listed the error where an SMTP server exhausts its implementation limit on the number of RCPT commands ("too many recipients") as having reply code 552. The correct reply code for this condition is 452. Clients SHOULD treat a 552 code in this case as a temporary, rather than permanent, failure so the logic below works.

When a conforming SMTP server encounters this condition, it has at least 100 successful RCPT commands in its recipients buffer. If the server is able to accept the message, then at least these 100 addresses will be removed from the SMTP client's queue. When the client attempts retransmission of those addresses which received 452 responses, at least 100 of these will be able to fit in the SMTP server's recipients buffer. Each retransmission attempt which is able to deliver anything will be able to dispose of at least 100 of these recipients.

If an SMTP server has an implementation limit on the number of RCPT commands and this limit is exhausted, it MUST use a response code of 452 (but the client SHOULD also be prepared
for a 552, as noted
above). If the server has a configured site-policy limitation on the number of RCPT commands, it MAY instead use a 5XX response code. This would be most appropriate if the policy limitation was intended to apply if the total recipient count for a particular message body were enforced even if that message body was sent in multiple mail transactions.

4.5.3.2 Timeouts

An SMTP client MUST provide a timeout mechanism. It MUST use per-command timeouts rather than somehow trying to time the entire mail transaction. Timeouts SHOULD be easily reconfigurable, preferably without recompiling the SMTP code. To implement this, a timer is set

for each SMTP command and for each buffer of the data transfer. The latter means that the overall timeout is inherently proportional to the size of the message.

Based on extensive experience with busy mail-relay hosts, the minimum per-command timeout values SHOULD be as follows:

Initial
220 Message: 5 minutes
An SMTP client process needs to distinguish between a failed TCP

connection and a delay in receiving the initial 220 greeting message. Many SMTP servers accept a TCP connection but delay delivery of the 220 message until their system load permits more mail to be processed.

MAIL Command: 5 minutes

RCPT Command: 5 minutes
A longer timeout is required if processing of mailing lists and aliases is not deferred until after the message was accepted.

DATA Initiation: 2 minutes
This is while awaiting the "354 Start Input" reply to a DATA command.

Data Block: 3 minutes
This is while awaiting the completion of each TCP SEND call transmitting a chunk of data.

DATA Termination: 10 minutes.
This is while awaiting the "250 OK" reply. When the receiver gets the final period terminating the message data, it typically performs processing to deliver the message to a user mailbox.
A
spurious timeout at this point would be very wasteful and would typically result in delivery of multiple copies of the message, since it has been successfully sent and the server has accepted responsibility for delivery. See section 6.1 for additional discussion.

An SMTP server SHOULD have a timeout of at least 5 minutes while it is awaiting the next command from the sender.

4.5.4 Retry Strategies

The common structure of a host SMTP implementation includes user mailboxes, one or more areas for queuing messages in transit, and one or more daemon processes for sending and receiving mail. The exact structure will vary depending on the needs of the users on the host

and the number and size of mailing lists supported by the host. We describe several optimizations that have proved helpful, particularly for mailers supporting high traffic levels.

Any queuing strategy MUST include timeouts on all activities on a per-command
basis. A queuing strategy MUST NOT send error messages in response to error messages under any circumstances.

4.5.4.1 Sending Strategy

The general model for an SMTP client is one or more processes that periodically attempt to transmit outgoing mail. In a typical system, the program that composes a message has some method for requesting immediate attention for a new piece of outgoing mail, while mail that cannot be transmitted immediately MUST be queued and periodically retried by the sender. A mail queue entry will include not only the message itself but also the envelope information.

The sender MUST delay retrying a particular destination after one attempt has failed. In general, the retry interval SHOULD be at least 30 minutes; however, more sophisticated and variable strategies will be beneficial when the SMTP client can determine the reason for non-delivery.

Retries continue until the message is transmitted or the sender gives up; the give-up time generally needs to be at least 4-5 days. The parameters to the retry algorithm MUST be configurable.

A client SHOULD keep a list of hosts it cannot reach and corresponding connection timeouts, rather than just retrying queued mail items.

Experience suggests that failures are typically transient (the target system or its connection has crashed), favoring a policy of two connection attempts in the first hour the message is in the queue, and then backing off to one every two or three hours.

The SMTP client can shorten the queuing delay in cooperation with the SMTP server. For example, if mail is received from a particular address, it is likely that mail queued for that host can now be sent. Application of this principle may, in many cases, eliminate the requirement for an explicit "send queues now" function such as ETRN [9].

The strategy may be further modified as a result of multiple addresses per host (see below) to optimize delivery time vs. resource usage.

An SMTP client may have a large queue of messages for each unavailable destination host. If all of these messages were retried in every retry cycle, there would be excessive Internet overhead and the sending system would be blocked for a long period. Note that an SMTP client can generally determine that a delivery attempt has

failed only after a timeout of several minutes and even a one-minute timeout per connection will result in a very large delay if retries are repeated for dozens, or even hundreds, of queued messages to the same host.

At the same time, SMTP clients SHOULD use great care in caching negative responses from servers. In an extreme case, if EHLO is issued multiple times during the same SMTP connection, different answers may be returned by the server. More significantly, 5yz responses to the MAIL command MUST NOT be cached.

When a mail message is to be delivered
to multiple recipients, and
the SMTP server to which a copy of the message is to be sent is the same for multiple recipients, then only one copy of the message SHOULD be transmitted. That is, the SMTP client SHOULD use the command sequence: MAIL, RCPT, RCPT,... RCPT, DATA instead of the sequence: MAIL, RCPT, DATA, ..., MAIL, RCPT, DATA. However, if there are very many addresses, a limit on the number of RCPT commands per MAIL command MAY be imposed. Implementation of this efficiency feature is strongly encouraged.

Similarly, to achieve timely delivery, the SMTP client MAY support multiple concurrent outgoing mail transactions. However, some limit may be appropriate to protect the host from devoting all its resources to mail.

4.5.4.2 Receiving Strategy

The SMTP server SHOULD attempt to keep a pending listen on the SMTP port at all times. This requires the support of multiple incoming TCP connections for SMTP. Some limit MAY be imposed
but servers that
cannot handle more than one SMTP transaction at a time are not in conformance with the intent of this specification.

As discussed above, when the SMTP server receives mail from a particular host address, it could activate its own SMTP queuing mechanisms to retry any mail pending for that host address.

4.5.5 Messages with a null reverse-path

There are several types of notification messages which are required by existing and proposed standards to be sent with a null reverse path, namely non-delivery notifications as discussed in section 3.7,

other kinds of Delivery Status Notifications (DSNs) [24], and also Message Disposition Notifications (MDNs) [10]. All of these kinds of

messages are notifications about a previous message, and they are sent to the reverse-path of the previous mail message. (If the delivery of such a notification message fails, that usually indicates a problem with the mail system of the host to which the notification message is addressed. For this reason, at some hosts the MTA is set up to forward such failed notification messages to someone who is able to fix problems with the mail system, e.g., via the postmaster alias.)

All other types of messages (i.e., any message which is not required by a standards-track RFC to have a null reverse-path) SHOULD be sent with with a valid, non-null reverse-path.

Implementors of automated email processors should be careful to make sure that the various kinds of messages with null reverse-path are handled correctly, in particular such systems SHOULD NOT reply to messages with null reverse-path.

5. Address Resolution and Mail Handling

Once an SMTP client lexically identifies a domain to which mail will be delivered for processing (as described in sections 3.6 and 3.7), a DNS lookup MUST be performed to resolve the domain name [22]. The names are expected to be fully-qualified domain names (FQDNs): mechanisms for inferring FQDNs from partial names or local aliases are outside of this specification and, due to a history of problems, are generally discouraged. The lookup first attempts to locate an MX record associated with the name. If a CNAME record is found instead, the resulting name is processed as if it were the initial name. If no MX records are found, but an A RR is found, the A RR is treated as if it was associated with an implicit MX RR, with a preference of 0, pointing to that host. If one or more MX RRs are found for a given name, SMTP systems MUST NOT utilize any A RRs associated with that name unless they are located using the MX RRs; the "implicit MX" rule above applies only if there are no MX records present. If MX records are present, but none of them are usable, this situation MUST be reported as an error.

When the lookup succeeds, the mapping can result in a list of alternative delivery addresses rather than a single address, because of multiple MX records, multihoming, or both. To provide reliable mail transmission, the SMTP client MUST be able to try (and retry) each of the relevant addresses in this list in order, until a delivery attempt succeeds. However, there MAY also be a configurable limit on the number of alternate addresses that can be tried. In any case, the SMTP client SHOULD try at least two addresses.

Two types of information is used to rank the host addresses: multiple MX records, and multihomed hosts.

Multiple MX records contain a preference indication that MUST be used in sorting (see below). Lower numbers are more preferred than higher ones. If there are multiple destinations with the same preference and there is no clear reason to favor one (e.g., by recognition of an easily-reached address), then the sender-SMTP MUST randomize them to spread the load across multiple mail exchangers for a specific organization.

The destination host (perhaps taken from the preferred MX record) may be multihomed, in which case the domain name resolver will return a list of alternative IP addresses. It is the responsibility of the domain name resolver interface to have ordered this list by decreasing preference if necessary, and SMTP MUST try them in the order presented.

Although the capability to try multiple alternative addresses is required, specific installations may want to limit or disable the use of alternative addresses. The question of whether a sender should attempt retries using the different addresses of a multihomed host has been controversial. The main argument for using the multiple addresses is that it maximizes the probability of timely delivery, and indeed sometimes the probability of any delivery; the counter-argument is that it may result in unnecessary resource use. Note that resource use is also strongly determined by the sending strategy discussed in section 4.5.4.1.

If an SMTP server receives a message with a destination for which it is a designated Mail eXchanger, it MAY relay the message (potentially after having rewritten the MAIL FROM and/or RCPT TO addresses), make final delivery of the message, or hand it off using some mechanism outside the SMTP-provided transport environment. Of course, neither of the latter require that the list of MX records be examined further.

If it determines that it should relay the message without rewriting the address, it MUST sort the MX records to determine candidates for delivery. The records are first ordered by preference, with the lowest-numbered records being most preferred. The relay host MUST then inspect the list for any of the names or addresses by which it might be known in mail transactions. If a matching record is found, all records at that preference level and higher-numbered ones MUST be discarded from consideration. If there

are no records left at that
point, it is an error condition, and the message MUST be returned as undeliverable. If records do remain, they SHOULD be tried, best preference first, as described above.

6. Problem Detection and Handling

6.1 Reliable Delivery and Replies by Email

When the receiver-SMTP accepts a piece of mail (by sending a "250 OK" message in response to DATA), it is accepting responsibility for delivering or relaying the message. It must take this responsibility seriously. It MUST NOT lose the message for frivolous reasons, such as because the host later crashes or because of a predictable resource shortage.

If there is a delivery failure after acceptance of a message, the receiver-SMTP MUST formulate and mail a notification message. This notification MUST be sent using a null ("<>") reverse path in the envelope. The recipient of this notification MUST be the address from the envelope return path (or the Return-Path:
line). However,
if this address is null ("<>"), the receiver-SMTP MUST NOT send a notification. Obviously, nothing in this section can or should prohibit local decisions (i.e., as part of the same system environment as the receiver-SMTP) to log or otherwise transmit information about null address events locally if that is desired. If the address is an explicit source route, it MUST be stripped down to its final hop.

For example, suppose that an error notification must be sent for a message that arrived with:

```
MAIL FROM:<@a,@b:user@d>
```

The notification message MUST be sent using:

```
RCPT TO:<user@d>
```

Some delivery failures after the message is accepted by SMTP will be unavoidable. For example, it may be impossible for the receiving SMTP server to validate all the delivery addresses in RCPT command(s) due to a "soft" domain system error, because the target is a mailing list (see earlier discussion of RCPT), or because the server
is
acting as a relay and has no immediate access to the delivering system.

To avoid receiving duplicate messages as the result of timeouts, a receiver-SMTP MUST seek to minimize the time required to respond to the final <CRLF>.<CRLF> end of data indicator. See RFC 1047 [28] for a discussion of this problem.

6.2 Loop Detection

Simple counting of the number of "Received:" headers in a message has proven to be an effective, although rarely optimal, method of detecting loops in mail systems. SMTP servers using this technique SHOULD use a large rejection threshold, normally at least 100 Received entries. Whatever mechanisms are used, servers MUST contain provisions for detecting and stopping trivial loops.

6.3 Compensating for Irregularities

Unfortunately, variations, creative interpretations, and outright violations of Internet mail protocols do occur; some would suggest that they occur quite frequently. The debate as to whether a well-behaved SMTP receiver or relay should reject a malformed message, attempt to pass it on unchanged, or attempt to repair it to increase the odds of successful delivery (or subsequent reply) began almost with the dawn of structured network mail and shows no signs of abating. Advocates of rejection claim that attempted repairs are rarely completely adequate and that rejection of bad messages is the only way to get the offending software repaired. Advocates of "repair" or "deliver no matter what" argue that users prefer that mail go through it if at all possible and that there are significant market pressures in that direction. In practice, these market pressures may be more important to particular vendors than strict conformance to the standards, regardless of the preference of the actual developers.

The problems associated with ill-formed messages were exacerbated by the introduction of the split-UA mail reading protocols [3, 26, 5, 21].
These protocols have encouraged the use of SMTP as a posting protocol, and SMTP servers as relay systems for these client hosts (which are often only intermittently connected to the Internet). Historically, many of those client machines lacked some of the mechanisms and information assumed by SMTP (and indeed, by the mail format protocol [7]). Some could not keep adequate track of time; others had no concept of time zones; still others could not identify their own names or addresses; and, of course, none could satisfy the assumptions that underlay RFC 822's conception of authenticated addresses.

In response to these weak SMTP clients, many SMTP systems now

complete messages that are delivered to them in incomplete or incorrect form. This strategy is generally considered appropriate when the server can identify or authenticate the client, and there are prior agreements between them. By contrast, there is at best great concern about fixes applied by a relay or delivery SMTP server that has little or no knowledge of the user or client machine.

The following changes to a message being processed MAY be applied when necessary by an originating SMTP server, or one used as the target of SMTP as an initial posting protocol:

- Addition of a message-id field when none appears

- Addition of a date, time or time zone when none appears

- Correction of addresses to proper FQDN format

The less information the server has about the client, the less likely these changes are to be correct and the more caution and conservatism should be applied when considering whether or not to perform fixes and how. These changes MUST NOT be applied by an SMTP server that provides an intermediate relay function.

In all cases, properly-operating clients supplying correct information are preferred to corrections by the SMTP server. In all cases, documentation of actions performed by the servers (in trace fields and/or header comments) is strongly encouraged.

7. Security Considerations

7.1 Mail Security and Spoofing

SMTP mail is inherently insecure in that it is feasible for even fairly casual users to negotiate directly with receiving and relaying SMTP servers and create messages that will trick a naive recipient into believing that they came from somewhere else. Constructing such a message so that the "spoofed" behavior cannot be detected by an expert is somewhat more difficult, but not sufficiently so as to be a deterrent to someone who is determined and knowledgeable. Consequently, as knowledge of Internet mail increases, so does the knowledge that SMTP mail inherently cannot be authenticated, or integrity checks provided, at the transport level. Real mail security lies only in end-to-end methods involving the message bodies, such as those which use digital signatures (see [14] and, e.g., PGP [4] or S/MIME [31]).

Various protocol
extensions and configuration options that provide
authentication at the transport level (e.g., from an SMTP client to
an SMTP server) improve somewhat on the traditional situation
described above. However, unless they are accompanied by careful
handoffs of responsibility in a carefully-designed trust environment,
they remain inherently weaker than end-to-end mechanisms which use
digitally signed messages rather than depending on the integrity of
the transport system.

Efforts to make it more difficult for users to set envelope return
path and header "From" fields to point to valid addresses other than
their own are largely misguided: they frustrate legitimate
applications in which mail is sent by one user on behalf of another
or in which error (or normal) replies should be directed to a special
address. (Systems that provide convenient ways for users to alter
these fields on a per-message basis should accept to establish a
primary
and permanent mailbox address for the user so that Sender
fields within the message data can be generated sensibly.)

This specification does not further address the authentication issues
associated with SMTP other than to advocate that useful functionality
not be disabled in the hope of providing some small margin of
protection against an ignorant user who is trying to fake mail.

7.2 "Blind" Copies

Addresses that do not appear in the message headers may appear in the
RCPT commands to an SMTP server for a number of reasons. The two
most common involve the use of a mailing address as a "list exploder"
(a single address that resolves into multiple addresses) and the
appearance of "blind copies". Especially when more than one RCPT
command is present, and in order to avoid defeating some of the
purpose of these mechanisms, SMTP clients and servers SHOULD NOT copy
the full set of RCPT command arguments into the headers, either as
part of trace headers
or as informational or private-extension
headers. Since this rule is often violated in practice, and cannot
be enforced, sending SMTP systems that are aware of "bcc" use MAY
find it helpful to send each blind copy as a separate message
transaction containing only a single RCPT command.

There is no inherent relationship between either "reverse" (from
MAIL, SAML, etc., commands) or "forward" (RCPT) addresses in the SMTP
transaction ("envelope") and the addresses in the headers. Receiving
systems SHOULD NOT attempt to deduce such relationships and use them
to alter the headers of the message for delivery. The popular

"Apparently-to" header is a violation of this principle as well as a common source of unintended information disclosure and SHOULD NOT be used.

7.3 VRFY, EXPN, and Security

As discussed in section 3.5, individual sites may want to disable either or both of VRFY or EXPN for security reasons. As a corollary to the above, implementations that permit this MUST NOT appear to have verified addresses that are not, in fact, verified. If a site disables these commands for security reasons, the SMTP server MUST return a 252 response, rather than a code that could be confused with successful or unsuccessful verification.

Returning a 250 reply code with the address listed in the VRFY command after having checked it only for syntax violates this rule. Of course, an implementation that "supports" VRFY by always returning 550 whether or not the address is valid is equally not in conformance.

Within the last few years, the contents of mailing lists have become popular as an address information source for so-called "spammers." The use of EXPN to "harvest" addresses has increased as list administrators have installed protections against inappropriate uses of the lists themselves. Implementations SHOULD still provide support for EXPN, but sites SHOULD carefully evaluate the tradeoffs. As authentication mechanisms are introduced into SMTP, some sites may choose to make EXPN available only to authenticated requestors.

7.4 Information Disclosure in Announcements

There has been an ongoing debate about the tradeoffs between the debugging advantages of announcing server type and version (and, sometimes, even server domain name) in the greeting response or in response to the HELP command and the disadvantages of exposing information that might be useful in a potential hostile attack. The utility of the debugging information is beyond doubt. Those who argue for making it available point out that it is far better to actually secure an SMTP server rather than hope that trying to conceal known vulnerabilities by hiding the server's precise identity will provide more protection. Sites are encouraged to evaluate the tradeoff with that issue in mind; implementations are strongly encouraged to minimally provide for making type and version information available in some way to other network hosts.

7.5 Information Disclosure in Trace Fields

In some circumstances, such as when mail originates from within a LAN whose hosts are not directly on the public Internet, trace ("Received") fields produced in conformance with this specification may disclose host names and similar information that would not normally be available. This ordinarily does not pose a problem, but sites with special concerns about name disclosure should be aware of it. Also, the optional FOR clause should be supplied with caution or not at all when multiple recipients are involved lest it inadvertently disclose the identities of "blind copy" recipients to others.

7.6 Information Disclosure in Message Forwarding

As discussed in section 3.4, use of the 251 or 551 reply codes to identify the replacement address associated with a mailbox may inadvertently disclose sensitive information. Sites that are concerned about those issues should ensure that they select and configure servers appropriately.

7.7 Scope of Operation of SMTP Servers

It is a well-established principle that an SMTP server may refuse to accept mail for any operational or technical reason that makes sense to the site providing the server. However, cooperation among sites and installations makes the Internet possible. If sites take excessive advantage of the right to reject traffic, the ubiquity of email availability (one of the strengths of the Internet) will be threatened; considerable care should be taken and balance maintained if a site decides to be selective about the traffic it will accept and process.

In recent years, use of the relay function through arbitrary sites has been used as part of hostile efforts to hide the actual origins of mail. Some sites have decided to limit the use of the relay function to known or identifiable sources, and implementations SHOULD provide the capability to perform this type of filtering. When mail is rejected for these or other policy reasons, a 550 code SHOULD be used in response to EHLO, MAIL, or RCPT as appropriate.

8. IANA Considerations

IANA will maintain three registries in support of this specification. The first consists of SMTP service extensions with the associated

keywords, and, as needed, parameters and verbs. As specified in section 2.2.2, no entry may be made in this registry that starts in an "X". Entries may be made only for service extensions (and associated keywords, parameters, or verbs) that are defined in standards-track or experimental RFCs specifically approved by the IESG for this purpose.

The second registry consists of "tags" that identify forms of domain literals other than those for IPv4 addresses (specified in RFC 821 and in this document) and IPv6 addresses (specified in this document). Additional literal types require standardization before being used; none are anticipated at this time.

The third, established by RFC 821 and renewed by this specification, is a registry of link and protocol identifiers to be used with the "via" and "with" subclauses of the time stamp ("Received: header")

described in section 4.4. Link and protocol identifiers in addition to those specified in this document may be registered only by standardization or by way of an RFC-documented, IESG-approved, Experimental protocol extension.

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11. Acknowledgments

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APPENDICES

A. TCP Transport Service

The TCP connection supports the transmission of 8-bit bytes. The SMTP data is 7-bit ASCII characters. Each character is transmitted as an 8-bit byte with the high-order bit cleared to zero. Service extensions may modify this rule to permit transmission of full 8-bit data bytes as part of the message body, but not in SMTP commands or responses.

B. Generating SMTP Commands from RFC 822 Headers

Some systems use RFC 822 headers (only) in a mail submission protocol, or otherwise generate SMTP commands from RFC 822 headers when such a message is handed to an MTA from a UA. While the MTA-UA protocol is a private matter, not covered by any Internet Standard, there are problems with this approach. For example, there have been repeated problems with proper handling of "bcc" copies and redistribution lists when information that conceptually belongs to a mail envelopes is not separated early in processing from header information (and kept separate).

It is recommended that the UA provide its initial ("submission client") MTA with an envelope separate from the message itself. However, if the envelope is not supplied, SMTP commands SHOULD be generated as follows:

1. Each recipient address from a TO, CC, or BCC header field SHOULD be copied to a RCPT command (generating multiple message copies if that is required for queuing or delivery). This includes any addresses listed in a RFC 822 "group". Any BCC fields SHOULD then be removed from the headers. Once this process is completed, the remaining headers SHOULD be checked to verify that at least one To:, Cc:, or Bcc: header remains. If none do, then a bcc: header with no additional information SHOULD be inserted as specified in [32].

2. The return address in the MAIL command SHOULD, if possible, be derived from the system's identity for the submitting (local) user, and the "From:" header field otherwise. If there is a system identity available, it SHOULD also be copied to the Sender header field if it is different from the address in the From header field. (Any Sender field that was already there SHOULD be removed.) Systems may provide a way for submitters to override the envelope return address, but may want to restrict its use to privileged users. This will not prevent mail forgery, but may lessen its incidence; see section 7.1.

When an MTA is being used in this way, it bears responsibility for ensuring that the message being transmitted is valid. The mechanisms for checking that validity, and for handling (or returning) messages that are not valid at the time of arrival, are part of the MUA-MTA interface and not covered by this specification.

A submission protocol based on Standard RFC 822 information alone MUST NOT be used to gateway a message from a foreign (non-SMTP) mail system into an SMTP environment. Additional information to construct an envelope must come from some source in the other environment, whether supplemental headers or the foreign system's envelope.

Attempts to gateway messages using only their header "to" and "cc" fields have repeatedly caused mail loops and other behavior adverse to the proper functioning of the Internet mail environment. These problems have been especially common when the message originates from an Internet mailing list and is distributed into the foreign environment using envelope information. When these messages are then processed by a header-only remailer, loops back to the Internet environment (and the mailing list) are almost inevitable.

C. Source Routes

Historically, the <reverse-path> was a reverse source routing list of

hosts and a source mailbox. The first host in the <reverse-path> SHOULD be the host sending the MAIL command. Similarly, the <forward-path> may be a source routing lists of hosts and a destination mailbox. However, in general, the <forward-path> SHOULD contain only a mailbox and domain name, relying on the domain name system to supply routing information if required. The use of source routes is deprecated; while servers MUST be prepared to receive and handle them as discussed in section 3.3 and F.2, clients SHOULD NOT transmit them and this section was included only to provide context.

For relay purposes, the forward-path may be a source route of the form "@ONE,@TWO:JOE@THREE", where ONE, TWO, and THREE MUST BE fully-qualified domain names. This form is used to emphasize the distinction between an address and a route. The mailbox is an absolute address, and the route is information about how to get there. The two concepts should not be confused.

If source routes are used, RFC 821 and the text below should be consulted for the mechanisms for constructing and updating the forward- and reverse-paths.

The SMTP server transforms the command arguments by moving its own identifier (its domain name or that of any domain for which it is acting as a mail exchanger), if it appears, from the forward-path to the beginning of the reverse-path.

Notice that the forward-path and reverse-path appear in the SMTP commands and replies, but not necessarily in the message. That is, there is no need for these paths and especially this syntax to appear in the "To:" , "From:", "CC:", etc. fields of the message header. Conversely, SMTP servers MUST NOT derive final message delivery information from message header fields.

When the list of hosts is present, it is a "reverse" source route and indicates that the mail was relayed through each host on the list (the first host in the list was the most recent relay). This list is used as a source route to return non-delivery notices to the sender. As each relay host adds itself to the beginning of the list, it MUST use its name as known in the transport environment to which it is relaying the mail rather than that of the transport environment from which the mail came (if they are different).

D. Scenarios

This section presents complete scenarios of several types of SMTP sessions. In the examples, "C:" indicates what is said

by the SMTP
client, and "S:" indicates what is said by the SMTP server.

D.1 A Typical SMTP Transaction Scenario

This SMTP example shows mail sent by Smith at host bar.com, to Jones, Green, and Brown at host foo.com. Here we assume that host bar.com contacts host foo.com directly. The mail is accepted for Jones and Brown. Green does not have a mailbox at host foo.com.

```
S: 220 foo.com Simple Mail Transfer Service Ready
C: EHLO bar.com
S: 250-foo.com greets bar.com
S: 250-8BITMIME
S: 250-SIZE
S: 250-DSN
S: 250 HELP
C: MAIL FROM:<Smith@bar.com>
S: 250 OK
C: RCPT TO:<Jones@foo.com>
S: 250 OK
C: RCPT TO:<Green@foo.com>
S: 550 No such user here
C: RCPT TO:<Brown@foo.com>

S: 250 OK
C: DATA
S: 354 Start mail input; end with <CRLF>.<CRLF>
C: Blah blah blah...
C: ...etc. etc. etc.
C: .
S: 250 OK
C: QUIT
S: 221 foo.com Service closing transmission
channel
```

D.2 Aborted SMTP Transaction Scenario

```
S: 220 foo.com Simple Mail Transfer Service Ready
C: EHLO bar.com
S: 250-foo.com greets bar.com
S: 250-8BITMIME
S: 250-SIZE
S: 250-DSN
S: 250 HELP
C: MAIL FROM:<Smith@bar.com>
S: 250 OK
C: RCPT TO:<Jones@foo.com>
```

S: 250 OK
C: RCPT TO:<Green@foo.com>
S: 550 No such user here
C: RSET
S: 250 OK
C: QUIT
S: 221 foo.com Service closing transmission channel

D.3 Relayed Mail Scenario

Step 1 -- Source Host to Relay Host

S: 220 foo.com Simple Mail Transfer Service Ready
C: EHLO bar.com
S: 250-foo.com greets bar.com
S: 250-8BITMIME
S: 250-SIZE
S: 250-DSN
S: 250 HELP
C: MAIL FROM:<JQP@bar.com>
S: 250 OK
C: RCPT TO:<@foo.com:Jones@XYZ.COM>
S: 250 OK
C: DATA
S: 354 Start mail input; end with <CRLF>.<CRLF>
C: Date: Thu, 21 May 1998 05:33:29 -0700

C: From: John Q. Public <JQP@bar.com>
C: Subject: The Next Meeting of the Board
C: To: Jones@xyz.com
C:
C: Bill:
C: The next meeting of the board of directors will be
C: on Tuesday.
C: John.
C: .
S: 250 OK
C: QUIT
S: 221 foo.com Service closing transmission channel

Step 2 -- Relay Host to Destination Host

S: 220 xyz.com Simple Mail Transfer Service Ready
C: EHLO foo.com
S: 250 xyz.com is on the air
C: MAIL FROM:<@foo.com:JQP@bar.com>
S: 250 OK

C: RCPT TO:<Jones@XYZ.COM>
S: 250 OK
C: DATA
S: 354 Start mail input; end with <CRLF>.<CRLF>
C: Received: from bar.com by foo.com ; Thu, 21 May 1998
C: 05:33:29 -0700
C: Date: Thu, 21 May 1998 05:33:22 -0700
C: From: John Q. Public <JQP@bar.com>
C: Subject: The Next Meeting of the Board
C: To: Jones@xyz.com
C:
C: Bill:
C: The next meeting
of the board of directors will be
C: on Tuesday.
C: John.
C: .
S: 250 OK
C: QUIT
S: 221 foo.com Service closing transmission channel

D.4 Verifying and Sending Scenario

S: 220 foo.com Simple Mail Transfer Service Ready
C: EHLO bar.com
S: 250-foo.com greets bar.com
S: 250-8BITMIME
S: 250-SIZE
S: 250-DSN

S: 250-VRFY
S: 250 HELP
C: VRFY Crispin
S: 250 Mark Crispin <Admin.MRC@foo.com>
C: SEND FROM:<EAK@bar.com>
S: 250 OK
C: RCPT TO:<Admin.MRC@foo.com>
S: 250 OK
C: DATA
S: 354 Start mail input; end with <CRLF>.<CRLF>
C: Blah blah blah...
C: ...etc. etc. etc.
C: .
S: 250 OK
C: QUIT
S: 221 foo.com Service closing transmission channel

E. Other Gateway Issues

In general, gateways between the Internet and other mail systems SHOULD attempt to preserve any layering semantics across the boundaries between the two mail systems involved. Gateway-translation approaches that attempt to take shortcuts by mapping, (such as envelope information from one system to the message headers or body of another) have generally proven to be inadequate in important ways. Systems translating between environments that do not support both envelopes and headers and Internet mail must be written with the understanding that some information loss is almost inevitable.

F. Deprecated Features of RFC 821

A few features of RFC 821 have proven to be problematic and SHOULD NOT be used in Internet mail.

F.1 TURN

This command, described in RFC 821, raises important security issues since, in the absence of strong authentication of the host requesting that the client and server switch roles, it can easily be used to divert mail from its correct destination. Its use is deprecated; SMTP systems SHOULD NOT use it unless the server can authenticate the client.

F.2 Source Routing

RFC 821 utilized the concept of explicit source routing to get mail from one host to another via a series of relays. The requirement to utilize source routes in regular mail traffic was eliminated by the introduction of the domain name system "MX" record and the last significant justification for them was eliminated by the introduction, in RFC 1123, of a clear requirement that addresses following an "@" must all be fully-qualified domain names. Consequently, the only remaining justifications for the use of source routes are support for very old SMTP clients or MUAs and in mail system debugging. They can, however, still be useful in the latter circumstance and for routing mail around serious, but temporary, problems such as problems with the relevant DNS records.

SMTP servers MUST continue to accept source route syntax as specified in the main body of this document and in RFC 1123. They MAY, if necessary, ignore the routes and utilize only the target domain in the address. If they do utilize the source route, the message MUST

be sent to the first domain shown in the address. In particular, a server MUST NOT guess at shortcuts within the source route.

Clients SHOULD NOT utilize explicit source routing except under unusual circumstances, such as debugging or potentially relaying around firewall or mail system configuration errors.

F.3 HELO

As discussed in sections 3.1 and 4.1.1, EHLO is strongly preferred to HELO when the server will accept the former. Servers must continue to accept and process HELO in order to support older clients.

F.4 #-literals

RFC 821 provided for specifying an Internet address as a decimal integer host number prefixed by a pound sign, "#". In practice, that form has been obsolete since the introduction of TCP/IP. It is deprecated and MUST NOT be used.

F.5 Dates and Years

When dates are inserted into messages by SMTP clients or servers
(e.g., in trace fields), four-digit years MUST BE used. Two-digit years are deprecated; three-digit years were never permitted in the Internet mail system.

F.6 Sending versus Mailing

In addition to specifying a mechanism for delivering messages to user's mailboxes, RFC 821 provided additional, optional, commands to deliver messages directly to the user's terminal screen. These commands (SEND, SAML, SOML) were rarely implemented, and changes in workstation technology and the introduction of other protocols may have rendered them obsolete even where they are implemented.

Clients SHOULD NOT provide SEND, SAML, or SOML as services. Servers MAY implement them. If they are implemented by servers, the implementation model specified in RFC 821 MUST be used and the command names MUST be published in the response to the EHLO command.

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No license file was found, but licenses were detected in source scan.

Network Working Group D. Crocker, Ed.
Request for Comments: 4234 Brandenburg InternetWorking
Obsoletes: 2234 P. Overell
Category: Standards Track THUS plc.
October 2005

Augmented BNF for Syntax Specifications: ABNF

Status of This Memo

This document specifies an Internet standards track protocol for the
Internet community, and requests discussion and suggestions for

improvements. Please refer to the current edition of the "Internet Official Protocol Standards" (STD 1) for the standardization state and status of this protocol. Distribution of this memo is unlimited.

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Abstract

Internet technical specifications often need to define a formal syntax. Over the years, a modified version of Backus-Naur Form (BNF), called Augmented BNF (ABNF), has been popular among many Internet specifications. The current specification documents ABNF. It balances compactness and simplicity, with reasonable representational power. The differences between standard BNF and ABNF involve naming rules, repetition, alternatives, order-independence, and value ranges. This specification also supplies additional rule definitions and encoding for a core lexical analyzer of the type common to several Internet specifications.

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1. INTRODUCTION

Internet technical specifications often need to define a formal syntax and are free to employ whatever notation their authors deem useful. Over the years, a modified version of Backus-Naur Form (BNF), called Augmented BNF (ABNF), has been popular among many Internet specifications.
It balances compactness and simplicity, with reasonable representational power. In the early days of the Arpanet, each specification contained its own definition of ABNF. This included the email specifications, [RFC733] and then [RFC822], which came to be the common citations for defining ABNF. The current document separates those definitions to permit selective reference. Predictably, it also provides some modifications and enhancements.

The differences between standard BNF and ABNF involve naming rules, repetition, alternatives, order-independence, and value ranges. Appendix B supplies rule definitions and encoding for a core lexical analyzer of the type common to several Internet specifications. It is provided as a convenience and is otherwise separate from the meta

language defined
in the body of this document, and separate from its
formal status.

Changes since [RFC2234]:

In Section 3.7, the phrase: "That is, exactly <N> occurrences of <element>." was corrected to: "That is, exactly <n> occurrences of <element>."

Some continuation comment lines needed to be corrected to begin with comment character (";").

2. RULE DEFINITION

2.1. Rule Naming

The name of a rule is simply the name itself; that is, a sequence of characters, beginning with an alphabetic character, and followed by a combination of alphabetics, digits, and hyphens (dashes).

NOTE:

Rule names are case-insensitive

The names <rulename>, <Rulename>, <RULENAME>, and <rUlENamE> all refer to the same rule.

Unlike original BNF, angle brackets ("<", ">") are not required. However, angle brackets may be used around a rule name whenever their presence facilitates in discerning the use of a rule name. This is typically restricted
to rule name references in free-form prose, or
to distinguish partial rules that combine into a string not separated by white space, such as shown in the discussion about repetition, below.

2.2. Rule Form

A rule is defined by the following sequence:

```
name =  elements crlf
```

where <name> is the name of the rule, <elements> is one or more rule names or terminal specifications, and <crlf> is the end-of-line indicator (carriage return followed by line feed). The equal sign separates the name from the definition of the rule. The elements form a sequence of one or more rule names and/or value definitions, combined according to the various operators defined in this document, such as alternative and repetition.

For visual ease, rule definitions are left aligned. When a rule requires multiple
lines, the continuation lines are indented. The
left alignment and indentation are relative to the first lines of the ABNF rules and need not match the left margin of the document.

2.3. Terminal Values

Rules resolve into a string of terminal values, sometimes called characters. In ABNF, a character is merely a non-negative integer. In certain contexts, a specific mapping (encoding) of values into a character set (such as ASCII) will be specified.

Terminals are specified by one or more numeric characters, with the base interpretation of those characters indicated explicitly. The following bases are currently defined:

```
b     =  binary

d     =  decimal

x     =  hexadecimal
```

Hence:

```
CR     =  %d13

CR     =  %x0D
```

respectively specify the decimal and hexadecimal representation of [US-ASCII] for carriage return.

A concatenated string of such values is specified compactly,

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using a
period (".") to indicate a separation of characters within that value. Hence:

```
CRLF       =  %d13.10
```

ABNF permits the specification of literal text strings directly, enclosed in quotation-marks. Hence:

```
command     =  "command string"
```

Literal text strings are interpreted as a concatenated set of printable characters.

NOTE:

ABNF strings are case-insensitive and the character set for these strings is us-ascii.

Hence:

```
rulename = "abc"
```

and:

```
rulename = "aBc"
```

will match "abc", "Abc", "aBc", "abC", "ABc", "aBC", "AbC", and "ABC".

To specify a rule that IS case SENSITIVE, specify the characters individually.

For example:

```
rulename    =  %d97 %d98 %d99
```

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or

```
rulename    =  %d97.98.99
```

will match only
the string that comprises only the lowercased
characters, abc.

2.4. External Encodings

External representations of terminal value characters will vary according to constraints in the storage or transmission environment. Hence, the same ABNF-based grammar may have multiple external encodings, such as one for a 7-bit US-ASCII environment, another for a binary octet environment, and still a different one when 16-bit Unicode is used. Encoding details are beyond the scope of ABNF, although Appendix A (Core) provides definitions for a 7-bit US-ASCII environment as has been common to much of the Internet.

By separating external encoding from the syntax, it is intended that alternate encoding environments can be used for the same syntax.

3. OPERATORS

3.1. Concatenation: Rule1 Rule2

A rule can
define a simple, ordered string of values (i.e., a
concatenation of contiguous characters) by listing a sequence of rule
names. For example:

```
foo       =  %x61          ; a

bar       =  %x62          ; b

mumble     =  foo bar foo
```

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So that the rule <mumble> matches the lowercase string "aba".

LINEAR WHITE SPACE: Concatenation is at the core of the ABNF parsing model. A string of contiguous characters (values) is parsed according to the rules defined in ABNF. For Internet specifications, there is some history of permitting linear white space (space and horizontal tab) to be freely and implicitly interspersed around major constructs, such as delimiting special characters or atomic strings.

NOTE:

This specification for ABNF does not provide for implicit specification of linear white space.

Any grammar that wishes to permit linear white space around delimiters or string segments must specify it explicitly.
It is
often useful to provide for such white space in "core" rules that are then used variously among higher-level rules. The "core" rules might be formed into a lexical analyzer or simply be part of the main ruleset.

3.2. Alternatives: Rule1 / Rule2

Elements separated by a forward slash ("/") are alternatives. Therefore,

```
foo / bar
```

will accept <foo> or <bar>.

NOTE:

A quoted string containing alphabetic characters is a special form for specifying alternative characters and is interpreted as a

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non-terminal representing the set of combinatorial strings with the contained characters, in the specified order but with any mixture of upper and lower case.

3.3. Incremental Alternatives: Rule1 =/ Rule2

It is sometimes convenient to specify a list of alternatives in fragments. That is, an initial rule may match one or more alternatives, with later rule definitions adding to the set of alternatives. This is particularly useful for otherwise, independent specifications that derive from the same parent rule set, such as often occurs with parameter lists. ABNF permits this incremental definition through the construct:

```
oldrule     =/ additional-alternatives
```

So that the rule set

```
ruleset     =  alt1 / alt2

ruleset     =/ alt3

ruleset     =/ alt4 / alt5
```

is the same as specifying

```
ruleset     =  alt1 / alt2 / alt3 / alt4 / alt5
```

3.4. Value Range Alternatives: %c##-##

A range of alternative numeric values can be specified compactly, using dash ("-") to indicate the range of alternative values. Hence:

```
DIGIT       =  %x30-39
```

is equivalent to:

```
DIGIT       =  "0" / "1" / "2" / "3" / "4" / "5" / "6" /

               "7" / "8" / "9"
```

Concatenated numeric values and numeric value ranges cannot be specified in the same string. A numeric value may use the dotted notation for concatenation or it may use the dash notation to specify

one value range. Hence, to specify one printable character between end of line sequences, the specification could be:

```
char-line = %x0D.0A %x20-7E %x0D.0A
```

3.5. Sequence Group: (Rule1 Rule2)

Elements enclosed in parentheses are treated as a single element, whose contents are STRICTLY ORDERED. Thus,

```
elem (foo / bar) blat
```

matches (elem foo blat) or (elem bar blat), and

```
elem foo / bar blat
```

matches (elem foo) or (bar blat).

NOTE:

It is strongly advised that grouping notation be used, rather than relying on the proper reading of "bare" alternations, when alternatives consist of multiple rule names or literals.

Hence, it is recommended that the following form be used:

```
(elem foo) / (bar blat)
```

It will avoid misinterpretation by casual readers.

The sequence group notation is also used within free text to set off an element sequence from the prose.

3.6. Variable Repetition: *Rule

The operator "*" preceding an element indicates repetition. The full form is:

```
<a>*<b>element
```

where <a> and <b> are optional decimal values, indicating at least <a> and at most <b> occurrences of the element.

Default values are 0 and infinity so that *<element> allows any number, including zero; 1*<element> requires at least one; 3*3<element> allows exactly 3 and 1*2<element> allows one or two.

3.7. Specific Repetition: nRule

A rule of the form:

```
<n>element
```

is equivalent to

```
<n>*<n>element
```

That is, exactly <n> occurrences of <element>. Thus, 2DIGIT is a 2-digit number, and 3ALPHA is a string of three alphabetic characters.

3.8. Optional Sequence: [RULE]

Square brackets enclose an optional element sequence:

```
[foo bar]
```

is equivalent to

```
*1(foo bar).
```

3.9. Comment: ; Comment

A semi-colon starts a comment that continues to the end of line. This is a simple way of including useful notes in parallel with the specifications.

3.10. Operator Precedence

The various mechanisms described above have the following precedence, from highest (binding tightest) at the top, to lowest (loosest) at

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the bottom:

Strings, Names formation

Comment

Value range

Repetition

Grouping, Optional

Concatenation

Alternative

Use of the alternative operator, freely mixed with concatenations, can be confusing.

Again, it is recommended that the grouping operator be used to make explicit concatenation groups.

4. ABNF DEFINITION OF ABNF

NOTES:

1. This syntax requires a formatting of rules that is relatively strict. Hence, the version of a ruleset included in a specification might need preprocessing to ensure that it can be interpreted by an ABNF parser.

2. This syntax uses the rules provided in Appendix B (Core).

```
rulelist       =  1*( rule / (*c-wsp c-nl) )

rule           =  rulename defined-as elements c-nl
                     ; continues if next line starts
                     ;  with white space

rulename       =  ALPHA *(ALPHA / DIGIT / "-")
```

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```
defined-as     =  *c-wsp ("=" / "=/") *c-wsp
                    ; basic
rules definition and
                    ;  incremental alternatives

elements       =  alternation *c-wsp

c-wsp          =  WSP / (c-nl WSP)

c-nl           =  comment / CRLF
                    ; comment or newline

comment        =  ";" *(WSP / VCHAR) CRLF

alternation    =  concatenation
                 *(*c-wsp "/" *c-wsp concatenation)

concatenation  =  repetition *(1*c-wsp repetition)

repetition     =  [repeat] element

repeat         =  1*DIGIT / (*DIGIT "*" *DIGIT)
```



```
element        =  rulename / group / option /
                 char-val / num-val / prose-val

group          =  "(" *c-wsp alternation *c-wsp ")"

option         =  "[" *c-wsp alternation *c-wsp "]"

char-val
     =  DQUOTE *(%x20-21 / %x23-7E) DQUOTE
                    ; quoted string of SP and VCHAR
                    ;  without DQUOTE

num-val        =  "%" (bin-val / dec-val / hex-val)

bin-val        =  "b" 1*BIT
```

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```
                [ 1*("." 1*BIT) / ("-" 1*BIT) ]
                    ; series of concatenated bit values
                    ;  or single ONEOF range

dec-val       =  "d" 1*DIGIT
                [ 1*("." 1*DIGIT) / ("-" 1*DIGIT) ]

hex-val       =  "x" 1*HEXDIG
                [ 1*("." 1*HEXDIG) / ("-" 1*HEXDIG) ]

prose-val     =  "<" *(%x20-3D / %x3F-7E) ">"
                    ; bracketed string of SP and VCHAR
                    ;  without angles
                    ; prose description, to be used as
                    ;  last resort
```

5. SECURITY CONSIDERATIONS

Security is truly believed
to be irrelevant to this document.

6. References

6.1. Normative References

[US-ASCII] American National Standards Institute, "Coded Character Set -- 7-bit American Standard Code for Information Interchange", ANSI X3.4, 1986.

6.2. Informative References

[RFC2234] Crocker, D. and P. Overell, "Augmented BNF for Syntax Specifications: ABNF", RFC 2234, November 1997.

[RFC733] Crocker, D., Vittal, J., Pogran, K., and D. Henderson, "Standard for the format of ARPA network text messages", RFC 733, November 1977.

[RFC822] Crocker, D., "Standard for the format of ARPA Internet

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text messages", STD 11, RFC 822, August 1982.

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Appendix A. ACKNOWLEDGEMENTS

The syntax for ABNF was originally specified in RFC 733. Ken L. Harrenstien, of SRI International, was responsible for re-coding the BNF into an augmented BNF that makes the representation smaller and easier to understand.

This recent project began as a simple effort to cull out the portion of RFC 822 that has been repeatedly cited by non-email specification writers, namely the description of augmented BNF. Rather than simply and blindly converting the existing text into a separate document, the working group chose to give careful consideration to the deficiencies, as well as benefits, of the existing specification and related specifications made available over the last 15 years, and therefore to pursue enhancement. This turned the project into something rather more ambitious than was first intended. Interestingly, the result is not massively different from that original, although decisions, such as removing the list notation, came as a surprise.

This "separated" version of the specification was part of the DRUMS working group, with significant contributions from Jerome Abela, Harald Alvestrand, Robert Elz, Roger Fajman, Aviva Garrett, Tom Harsch, Dan Kohn, Bill McQuillan, Keith Moore, Chris Newman, Pete Resnick, and Henning Schulzrinne.

Julian Reschke warrants a special thanks for converting the Draft Standard version to XML source form.

Appendix B. APPENDIX - CORE ABNF OF ABNF

This Appendix is provided as a convenient core for specific grammars. The definitions may be used as a core set of rules.

B.1. Core Rules

Certain basic rules are in uppercase, such as SP, HTAB, CRLF, DIGIT, ALPHA, etc.

```
ALPHA          =  %x41-5A / %x61-7A   ; A-Z / a-z

BIT            =  "0" / "1"
```

```
      CHAR          =  %x01-7F
                      ; any
 7-bit US-ASCII character,
                      ;  excluding NUL
```



```
      CR            =  %x0D
                      ; carriage return

      CRLF          =  CR LF
                      ; Internet standard newline

      CTL           =  %x00-1F / %x7F
                      ; controls

      DIGIT         =  %x30-39
                      ; 0-9

      DQUOTE        =  %x22
                      ; " (Double Quote)

      HEXDIG        =  DIGIT / "A" / "B" / "C" / "D" / "E" / "F"

      HTAB          =  %x09
                      ; horizontal tab

      LF            =  %x0A
                      ; linefeed

      LWSP          =  *(WSP / CRLF WSP)
                      ; linear white space (past newline)


  OCTET         =  %x00-FF
                      ; 8 bits of data

      SP            =  %x20

      VCHAR         =  %x21-7E
```

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```
                    ; visible (printing) characters

      WSP          =  SP / HTAB
                    ; white space
```

B.2. Common Encoding

Externally, data are represented as "network virtual ASCII" (namely, 7-bit US-ASCII in an 8-bit field), with the high (8th) bit set to zero. A string of values is in "network byte order", in which the higher-valued bytes are represented on the left-hand side and are sent over the network first.

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2cc19d5/spec/fixtures/emails/error_emails/content_transfer_encoding_x_uuencode.eml
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INFORMATIONAL

Network Working Group E. Hall
Request for Comments: 4155 September 2005
Category: Informational

The application/mbox Media Type

Status of This Memo

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Abstract

This memo requests that the application/mbox media type be authorized for allocation by the IESG, according to the terms specified in RFC 2048. This memo also defines a default format for the mbox database, which must be supported by all conformant implementations.

1. Background and Overview

UNIX-like operating systems have historically made widespread use of "mbox" database files for a variety of local email purposes. In the common case, mbox files store linear sequences of one or more electronic mail messages, with local email clients treating the database as a logical folder of email messages. mbox databases are also used by a variety of other messaging tools, such as mailing list management programs, archiving and filtering utilities, messaging servers, and other related applications. In recent years, mbox databases have also become common on a large number of non-UNIX computing platforms, for similar kinds of purposes.

The increased pervasiveness of these files has led to an increased demand for a standardized, network-wide interchange of these files as discrete database objects. In turn, this dictates a need for a general media type definition for mbox files, which is the subject and purpose of this memo.

2. About the mbox Database

The mbox database format is not documented in an authoritative specification, but instead exists as a well-known output format that is anecdotally documented, or which is only authoritatively documented for a specific platform or tool.

mbox databases typically contain a linear sequence of electronic mail messages. Each message begins with a separator line that identifies the message sender, and also identifies the date and time at which the message was received by the final recipient (either the last-hop system in the transfer path, or the system which serves as the recipient's mailstore). Each message is typically terminated by an empty line. The end of the database is usually recognized by either the absence of any additional data, or by the presence of an explicit end-of-file marker.

The structure of the separator lines vary across implementations, but usually contain the exact character sequence of "From", followed by a single Space character (0x20), an email address of some kind, another Space character, a timestamp sequence of some kind, and an end-of-line marker. However, due to the lack of any authoritative specification, each of these attributes are known to vary widely across implementations. For example, the email address can reflect any addressing syntax that has ever been used on any messaging system in all of history (specifically including address forms that are not compatible with Internet messages, as defined by RFC 2822 [RFC2822]). Similarly, the timestamp sequences can also vary according to system output, while the end-of-line sequences will often reflect platform-specific requirements. Different data formats can even appear within a single database as a result of multiple mbox files being concatenated together, or because a single

file was accessed by
multiple messaging clients, each of which has used its own syntax for
the separator line.

Message data within mbox databases often reflects site-specific
peculiarities. For example, it is entirely possible for the message
body or headers in an mbox database to contain untagged eight-bit
character data that implicitly reflects a site-specific default
language or locale, or that reflects local defaults for timestamps
and email addresses; none of this data is widely portable beyond the
local scope. Similarly, message data can also contain unencoded
eight-bit binary data, or can use encoding formats that represent a
specific platform (e.g., BINHEX or UUENCODE sequences).

Many implementations are also known to escape message body lines that
begin with the character sequence
of "From ", so as to prevent
confusion with overly-liberal parsers that do not search for full
separator lines. In the common case, a leading Greater-Than symbol
(0x3E) is used for this purpose (with "From " becoming ">From ").
However, other implementations are known not to escape such lines
unless they are immediately preceded by a blank line or if they also
appear to contain an email address and a timestamp. Other
implementations are also known to perform secondary escapes against
these lines if they are already escaped or quoted, while others
ignore these mechanisms altogether.

A comprehensive description of mbox database files on UNIX-like
systems can be found at http://qmail.org./man/man5/mbox.html, which
should be treated as mostly authoritative for those variations that
are otherwise only documented in anecdotal form. However, readers
are advised that many other platforms and tools make use of mbox
databases, and that there are
many more potential variations that can
be encountered in the wild.

In order to mitigate errors that may arise from such vagaries, this

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specification defines a "format" parameter to the application/mbox media type declaration, which can be used to identify the specific kind of mbox database that is being transferred. Furthermore, this specification defines a "default" database format which MUST be supported by implementations that claim to be compliant with this specification, and which is to be used as the implicit format for undeclared application/mbox data objects. Additional format types are to be defined in subsequent specifications. Messaging systems that receive an mbox database with an unknown format parameter value SHOULD treat the data as an opaque binary object, as if the data had been declared as application/octet-stream

Refer to Appendix A for a description of the default mbox format.

Note that RFC 2046 [RFC2046] defines the multipart/digest media type for transferring platform-independent message files. Because that specification defines a set of neutral and strict formatting rules, the multipart/digest media type already facilitates highly-predictable transfer and conversion operations; as such, implementers are strongly encouraged to support and use that media type where possible.

3. Prerequisites and Terminology

Readers of this document are expected to be familiar with the specification for MIME [RFC2045] and MIME-type registrations [RFC2048].

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in RFC 2119 [RFC2119].

4. The application/mbox Media Type Registration

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This section provides the media type registration application (as per [RFC2048]).

MIME media type name: application

MIME subtype name: mbox

Required parameters: none

Optional parameters: The "format" parameter identifies the format of the mbox database and the messages contained therein. The default value for the "format" parameter is "default", and refers to the formatting rules defined in Appendix A of this memo. mbox databases that do not have a "format" parameter SHOULD be interpreted as having the implicit "format" value of "default". mbox databases that have an unknown value for the "format" parameter SHOULD be treated as opaque data objects, as if the media type had been specified as application/octet-stream. Additional values for the format parameter are to be defined in subsequent specifications, and registered with IANA.

Encoding considerations: If an email client receives an mbox database as a message attachment, and then stores that attachment within a local mbox database, the contents of the two database files may become irreversibly intermingled, such that both databases are rendered unrecognizable. In order to avoid these collisions, messaging systems that support this specification MUST encode an mbox database (or at a minimum, the separator lines) with non-transparent transfer encoding (such as BASE64 or Quoted-Printable) whenever an application/mbox object is transferred via messaging protocols. Other transfer services are generally encouraged to adopt similar encoding strategies in order to allow for any subsequent retransmission that might occur, but this is not a requirement. Implementers should also be prepared to encode mbox data locally if non-compliant data is received.

Security considerations:

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mbox data is passive, and does not generally represent a unique or new security threat. However, there is risk in sharing any kind of data, because unintentional information may be exposed, and this risk certainly applies to mbox data as well.

Interoperability considerations: Due to the lack of a single authoritative specification for mbox databases, there are a large number of variations between database formats (refer to the introduction text for common examples), and it is expected that non-conformant data will be erroneously tagged or exchanged. Although the "default" format specified in this memo does not allow for these kinds of vagaries, prior negotiation or agreement between humans may sometimes be needed.

Published specification: see Appendix A.

Applications that use this media type: hundreds of messaging products make use of the mbox database format, in one form or another.

Magic number(s): mbox database files can be recognized by having a leading character sequence of "From", followed by a single Space character (0x20), followed by additional printable character data (refer to the description in Appendix A for details). However, implementers are cautioned that all such files will not be compliant with all of the formatting rules, therefore implementers should treat these files with an appropriate amount of circumspection.

File extension(s): mbox database files sometimes have an ".mbox" extension, but this is not required nor expected. As with magic numbers, implementers should avoid reflexive assumptions about the contents of such files.

Macintosh File Type Code(s): None are known to be common.

Person & email address to contact for further information: Eric A. Hall (ehall@ntrg.com)

Intended usage: COMMON

5. Security Considerations

See the discussion in section 4.

6. IANA Considerations

The IANA has registered the application/mbox media type in the MIME registry, using the application provided in section 4 above.

Furthermore, IANA has established and will maintain a registry of values for the "format" parameter as described in this memo. The first registration is the "default" value, using the description provided in Appendix A. Subsequent values for the "format" parameter MUST be accompanied by some form of recognizable, complete, and legitimate specification, such as an IESG-approved specification, or some kind of authoritative vendor documentation.

7. Normative References

[RFC2045] Freed, N. and N. Borenstein, "Multipurpose Internet Mail Extensions (MIME) Part One: Format of Internet Message Bodies", RFC 2045, November 1996.

[RFC2046] Freed, N. and N. Borenstein, "Multipurpose Internet Mail

Extensions (MIME) Part Two: Media Types", RFC 2046, November 1996.

[RFC2048] Freed, N., Klensin, J., and J. Postel, "Multipurpose Internet Mail Extensions (MIME) Part Four: Registration Procedures", BCP 13, RFC 2048, November 1996.

[RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119, March 1997.

[RFC2822] Resnick, P., "Internet Message Format", RFC 2822, April 2001.

Appendix A. The "default" mbox Database Format

In order to improve interoperability among messaging systems, this memo defines a "default" mbox database format, which MUST be supported by all implementations that claim to be compliant with this specification.

The "default" mbox database format uses a linear sequence of Internet messages, with each message being immediately prefaced by a separator line, and being terminated by an empty line. More specifically:

- o Each message within the database MUST follow the syntax and formatting rules defined in RFC 2822 [RFC2822] and its related specifications, with the exception that the canonical mbox database MUST use a single Line-Feed character (0x0A) as the end-of-line sequence, and MUST NOT use a Carriage-Return/Line-Feed pair (NB: this requirement only applies to the canonical mbox database as transferred, and does not override any other specifications). This usage represents the most common historical representation of the mbox database format, and allows for the least amount of conversion.

- o Messages within the default mbox database MUST consist of seven-bit characters within an eight-bit stream. Eight-bit data within the stream MUST be converted to a seven-bit form (using appropriate, standardized encoding) and appropriately tagged (with the correct header fields) before the database is

transferred.

o Message headers and data in the default mbox database MUST be fully-qualified, as per the relevant specification(s). For example, email addresses in the various header fields MUST have legitimate domain names (as per RFC 2822), while extended characters and encodings MUST be specified in the appropriate location (as per the appropriate MIME specifications), and so forth.

o Each message in the mbox database MUST be immediately preceded by a single separator line, which MUST conform to the following syntax:

The exact character sequence of "From";

a single Space character (0x20);

the email address of the message sender (as obtained from the message envelope
or other authoritative source), conformant
with the "addr-spec" syntax from RFC 2822;

a single Space character;

a timestamp indicating the UTC date and time when the message was originally received, conformant with the syntax of the traditional UNIX 'ctime' output sans timezone (note that the use of UTC precludes the need for a timezone indicator);

an end-of-line marker.

o Each message in the database MUST be terminated by an empty line, containing a single end-of-line marker.

Note that the first message in an mbox database will only be prefaced by a separator line, while every other message will begin with two end-of-line sequences (one at the end of the message itself, and another to mark the end of the message within the mbox database file
stream) and a separator line (marking the new message). The end of

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the database is implicitly reached when no more message data or separator lines are found.

Also note that this specification does not prescribe any escape syntax for message body lines that begin with the character sequence of "From ". Recipient systems are expected to parse full separator lines as they are documented above.

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2cc19d5/reference/rfc4155 The application-mbox Media Type.txt
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= Mail

== Introduction

Mail is an internet library for Ruby that is designed to handle emails
generation, parsing and sending in a simple, rubyesque manner.

The purpose of this library is to provide a single point of access to handle
all email functions, including sending and receiving emails. All network
type actions are done through proxy methods to Net::SMTP, Net::POP3 etc.

Built from my experience with TMail, it is designed to be a pure ruby
implementation that makes generating, sending and parsing emails a no
brainer.

It is also designed form the ground up to work with Ruby 1.9. This is because
Ruby 1.9 handles text encodings much more magically than Ruby 1.8.x and so
these features have been taken full advantage of in this library allowing
Mail to handle a lot more messages more cleanly than TMail. Mail does run on
Ruby 1.8.x... it's just not as fun to code.

Finally, Mail has been designed with a very
 simple object oriented system
that really opens up the email messages you are parsing, if you know what
you are doing, you can fiddle with every last bit of your email directly.

== Compatibility

Mail is tested and works on the following platforms:

* jruby-1.5.2 [[x86_64-java]]
* ree-1.8.7-2010.02 [x86_64]
* ruby-1.8.6-p399 [x86_64]
* ruby-1.8.7-p302 [x86_64]
* ruby-1.9.2-p0 [x86_64]

== Discussion

If you want to discuss mail with like minded individuals, please subscribe to
the Google Group http://groups.google.com/group/mail-ruby

== Current Capabilities of Mail

* RFC2822 Support, Reading and Writing
* RFC2045-2049 Support for multipart emails

* Support for creating multipart alternate emails
* Support for reading multipart/report emails & getting details from such
* Support for multibyte emails - needs quite a lot of work and testing
* Wrappers for File, Net/POP3, Net/SMTP
* Auto encoding of non US-ASCII header fields
* Auto encoding of non US-ASCII bodies

Mail is RFC2822
compliant now, that is, it can parse and generate valid US-ASCII
emails. There are a few obsoleted syntax emails that it will have problems with, but
it also is quite robust, meaning, if it finds something it doesn't understand it will
not crash, instead, it will skip the problem and keep parsing. In the case of a header
it doesn't understand, it will initialise the header as an optional unstructured
field and continue parsing.

This means Mail won't (ever) crunch your data (I think).

You can also create MIME emails. There are helper methods for making a
multipart/alternate email for text/plain and text/html (the most common pair)
and you can manually create any other type of MIME email.

== Roadmap

Next TODO:

* Improve MIME support for character sets in headers, currently works, mostly, needs
refinement.

== Testing Policy

Basically... we do BDD on Mail. No method gets written in Mail without a
corresponding or covering spec. We expect as a minimum 100% coverage
measured
by RCov. While this is not perfect by any measure, it is pretty
good. Additionally, all functional tests from TMail are to be passing before
the gem gets released.

It also means you can be sure Mail will behave correctly.

== API Policy

No API removals within a single point release. All removals to be depreciated with
warnings for at least one MINOR point release before removal.

Also, all private or protected methods to be declared as such - though this is still I/P.

== Installation

Installation is fairly simple, I host mail on rubygems, so you can just do:

gem install mail

== Encodings

If you didn't know, handling encodings in Emails is not as straight forward as you would hope.

I have tried to simplify it some:

1. All objects that can render into an email, have an :encoded method. Encoded will return the object as a complete string ready to send in the mail system, that is, it will include the header field and value and CRLF at the end and wrapped as needed.

2. All objects that can render into an email, have a :decoded method. Decoded will return the object's "value" only as a string. This means it will not include the header fields (like 'To:' or 'Subject:').

3. By default, calling :to_s on a container object will call it's encoded method, while :to_s on a field object will call it's decoded method. So calling :to_s on a Mail object will return the mail, all encoded ready to send, while calling :to_s on the From field or the body will return the decoded value of the object. The header object of Mail is considered a container. If you are in doubt, call :encoded, or :decoded explicitly, this is safer if you are not sure.

4. Structured fields that have parameter values that can be encoded (e.g. Content-Type) will provide decoded parameter values when you call the parameter names as methods against the object.

5. Structured fields that have parameter values that can be encoded (e.g. Content-Type) will provide encoded parameter values when you call the parameter names through the object.parameters['<parameter_name>'] method call.

== Contributing

Please do! Contributing is easy in Mail:

1. Check the Reference RFCs, they are in the References directory, so no excuses.
2. Open a ticket on github, maybe someone else has the problem too
3. Make a fork of my github repository
4. Make a spec driven change to the code base
5. Make sure it works and all specs pass, on Ruby versions 1.8.6, 1.8.7 and 1.9
6. Update the README if needed to reflect your change / addition
7. With all specs passing push your changes back to your fork
8. Send me a pull request

== Usage

All major mail functions should be able to happen from the Mail::module.
So, you should be able to just "require 'mail'" to get started.

=== Making an email

```
require 'mail'

mail = Mail.new do
     from 'mikel@test.lindsaar.net'
       to 'you@test.lindsaar.net'
  subject 'This is a test email'
     body File.read('body.txt')
 end

mail.to_s #=> "From: mikel@test.lindsaar.net\r\nTo: you@...
```

=== Making an email, have it your way:

```
require 'mail'

mail = Mail.new do
  body File.read('body.txt')
end

mail['from'] = 'mikel@test.lindsaar.net'
mail[:to]    = 'you@test.lindsaar.net'
mail.subject = 'This is a test email'

mail.to_s #=> "From: mikel@test.lindsaar.net\r\nTo: you@...
```

=== Don't Worry About Message IDs:

```
require 'mail'

mail = Mail.new do
    to 'you@test.lindsaar.net'
  body 'Some simple body'
end

mail.to_s =~ /Message\-ID: <[\d\w_]+@.+.mail/ #=> 27
```

Mail will automatically add a Message-ID field if it is missing and
give it a unique, random Message-ID along the lines of:

<4a7ff76d7016_13a81ab802e1@local.fqdn.mail>

=== Or do worry about Message-IDs:

```
require 'mail'

mail = Mail.new do
        to 'you@test.lindsaar.net'
 message_id '<ThisIsMyMessageId@some.domain.com>'
      body 'Some simple body'
end

mail.to_s =~ /Message\-ID: <ThisIsMyMessageId@some.domain.com>/
 #=> 27
```

Mail will take the message_id you assign to it trusting that you know
what you are doing.

=== Sending an email:

Mail defaults to sending via SMTP to localhost port 25. If you have a
sendmail or postfix daemon running on on this port, sending email is as
easy as:

```
Mail.deliver do
     from 'me@test.lindsaar.net'
       to 'you@test.lindsaar.net'
  subject 'Here is the image you wanted'
     body File.read('body.txt')
  add_file '/full/path/to/somefile.png'
end
```

or

```
mail = Mail.new do
     from 'me@test.lindsaar.net'
       to 'you@test.lindsaar.net'
  subject 'Here is the image you wanted'
     body File.read('body.txt')
  add_file {:filename => 'somefile.png', :content => File.read('/somefile.png')}
end

mail.deliver!
```

Sending via sendmail can be done like so:

```
 mail = Mail.new do
      from 'me@test.lindsaar.net'
        to 'you@test.lindsaar.net'
```

```
    subject 'Here is the image you wanted'
      body File.read('body.txt')
  add_file {:filename
=> 'somefile.png', :content => File.read('/somefile.png')}
end

mail.delivery_method :sendmail

mail.deliver
```

{Learn more about SMTP Delivery}[link:classes/Mail/SMTP.html]

{Learn more about File Delivery}[link:classes/Mail/FileDelivery.html]

{Learn more about Sendmail Delivery}[link:classes/Mail/Sendmail.html]

{Learn more about Test Email Delivery}[link:classes/Mail/TestMailer.html]

=== Getting emails from a pop server:

The most recent email:

```
Mail.defaults do
  retriever_method :pop3, { :address             => "pop.gmail.com",
                            :port                => 995,
                            :user_name           => '<username>',
                            :password            => '<password>',
                            :enable_ssl          => true }
end

Mail.all    #=> Returns an array of all emails
Mail.first  #=> Returns the first unread email
Mail.last   #=> Returns the first unread email
```

The first 10 emails sorted by date in ascending
order:

```
require 'mail'

Mail.defaults do
  retriever_method :pop3, { :address             => "pop.gmail.com",
                            :port                => 995,
                            :user_name           => '<username>',
                            :password            => '<password>',
                            :enable_ssl          => true }
end

emails = Mail.find(:what => :first, :count => 10, :order => :asc)
```

```
emails.length #=> 10
```

Or even all emails:

```
Mail.defaults do
  retriever_method :pop3, { :address             => "pop.gmail.com",
                            :port                => 995,
                            :user_name           => '<username>',
                            :password            => '<password>',
                            :enable_ssl          => true }
end

emails = Mail.all

emails.length #=> LOTS!
```

{Learn more about POP3}[link:classes/Mail/POP3.html]

{Learn more about IMAP}[link:classes/Mail/IMAP.html]

=== Reading an
 Email

```
require 'mail'

mail = Mail.read('/path/to/message.eml')

mail.envelope.from   #=> 'mikel@test.lindsaar.net'
mail.from.addresses  #=> ['mikel@test.lindsaar.net', 'ada@test.lindsaar.net']
mail.sender.address  #=> 'mikel@test.lindsaar.net'
mail.to              #=> 'bob@test.lindsaar.net'
mail.cc              #=> 'sam@test.lindsaar.net'
mail.subject         #=> "This is the subject"
mail.date.to_s       #=> '21 Nov 1997 09:55:06 -0600'
mail.message_id      #=> '<4D6AA7EB.6490534@xxx.xxx>'
mail.body.decoded    #=> 'This is the body of the email...
```

Many more methods available.

=== Reading a Multipart Email

```
require 'mail'

mail = Mail.read('multipart_email')

mail.multipart?          #=> true
mail.parts.length        #=> 2
mail.preamble            #=> "Text before the first part"
```

```
mail.epilogue            #=> "Text after the last part"
mail.parts.map { |p| p.content_type }  #=> ['text/plain', 'application/pdf']
mail.parts.map { |p| p.class }         #=> [Mail::Message,
 Mail::Message]
mail.parts[0].content_type_parameters  #=> {'charset' => 'ISO-8859-1'}
mail.parts[1].content_type_parameters  #=> {'name' => 'my.pdf'}
```

Mail generates a tree of parts. Each message has many or no parts. Each part is another message which can have many or no parts.

A message will only have parts if it is a multipart/mixed or related/mixed content type and has a boundary defined.

=== Writing and sending a multipart/alternative (html and text) email

Mail makes some basic assumptions and makes doing the common thing as simple as possible.... (asking a lot from a mail library)

```
require 'mail'

mail = Mail.deliver do
  to 'nicolas@test.lindsaar.net.au'
  from 'Mikel Lindsaar <mikel@test.lindsaar.net.au>'
  subject 'First multipart email sent with Mail'
  text_part do
    body 'This is plain text'
  end
  html_part do
    content_type 'text/html; charset=UTF-8'
    body '<h1>This is HTML</h1>'
  end
end
```

Mail then delivers the email at the end of the
 block and returns the
resulting Mail::Message object, which you can then inspect if you
so desire...

```
puts mail.to_s #=>

To: nicolas@test.lindsaar.net.au
From: Mikel Lindsaar <mikel@test.lindsaar.net.au>
Subject: First multipart email sent with Mail
Content-Type: multipart/alternative;
  boundary=--==_mimepart_4a914f0c911be_6f0f1ab8026659
Message-ID: <4a914f12ac7e_6f0f1ab80267d1@baci.local.mail>
Date: Mon, 24 Aug 2009 00:15:46 +1000
Mime-Version: 1.0
```

```
Content-Transfer-Encoding: 7bit


----==_mimepart_4a914f0c911be_6f0f1ab8026659
Content-ID: <4a914f12c8c4_6f0f1ab80268d6@baci.local.mail>
Date: Mon, 24 Aug 2009 00:15:46 +1000
Mime-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

This is plain text
----==_mimepart_4a914f0c911be_6f0f1ab8026659
Content-Type: text/html; charset=UTF-8
Content-ID: <4a914f12cf86_6f0f1ab802692c@baci.local.mail>
Date: Mon, 24 Aug 2009 00:15:46 +1000
Mime-Version: 1.0
Content-Transfer-Encoding: 7bit

<h1>This is HTML</h1>
 ----==_mimepart_4a914f0c911be_6f0f1ab8026659--
```

Mail inserts the content transfer encoding, the mime version, the content-id's and handles the content-type and boundary.

Mail assumes that if your text in the body is only us-ascii, that your transfer encoding is 7bit and it is text/plain. You can override this by explicitly declaring it.

=== Making Multipart/Alternate, without a block

You don't have to use a block with the text and html part included, you can just do it declaratively. However, you need to add Mail::Parts to an email, not Mail::Messages.

```
require 'mail'

mail = Mail.new do
  to 'nicolas@test.lindsaar.net.au'
  from 'Mikel Lindsaar <mikel@test.lindsaar.net.au>'
  subject 'First multipart email sent with Mail'
end

text_part = Mail::Part.new do
  body 'This is plain text'
end

html_part = Mail::Part.new do
  content_type 'text/html; charset=UTF-8'
```

```
  body '<h1>This is HTML</h1>'
end

mail.text_part = text_part
mail.html_part = html_part
```

Results in the
 same email as done using the block form

=== Getting error reports from an email:

```
require 'mail'

@mail = Mail.read('/path/to/bounce_message.eml')

@mail.bounced?         #=> true
@mail.final_recipient  #=> rfc822;mikel@dont.exist.com
@mail.action           #=> failed
@mail.error_status     #=> 5.5.0
@mail.diagnostic_code  #=> smtp;550 Requested action not taken: mailbox unavailable
@mail.retryable?       #=> false
```

=== Attaching and Detaching Files

```
 require 'mail'
```

You can just read the file off an absolute path, Mail will try
to guess the mime_type and will encode the file in Base64 for you.

```
 @mail = Mail.new
 @mail.add_file("/path/to/file.jpg")
 @mail.parts.first.attachment? #=> true
 @mail.parts.first.content_transfer_encoding.to_s #=> 'base64'
 @mail.attachments.first.mime_type #=> 'image/jpg'
 @mail.attachments.first.filename #=> 'file.jpg'
 @mail.attachments.first.decoded == File.read('/path/to/file.jpg') #=> true
```

Or You can pass in file_data and give it a
 filename, again, mail
will try and guess the mime_type for you.

```
 @mail = Mail.new
 @mail.attachments['myfile.pdf'] = File.read('path/to/myfile.pdf')
 @mail.parts.first.attachment? #=> true
 @mail.attachments.first.mime_type #=> 'application/pdf'
 @mail.attachments.first.decoded == File.read('path/to/myfile.pdf') #=> true
```

You can also override the guessed MIME media type if you really know better

than mail (this should be rarely needed)

```
@mail = Mail.new
file_data = File.read('path/to/myfile.pdf')
@mail.attachments['myfile.pdf'] = { :mime_type => 'application/x-pdf',
                                    :content => File.read('path/to/myfile.pdf') }
@mail.parts.first.mime_type #=> 'application/x-pdf'
```

Of course... Mail will round trip an attachment as well

```
@mail = Mail.new do
  to 'nicolas@test.lindsaar.net.au'
  from 'Mikel Lindsaar <mikel@test.lindsaar.net.au>'
  subject 'First multipart email sent with Mail'
  text_part do
    body 'Here is the attachment
you wanted'
  end
  html_part do
    content_type 'text/html; charset=UTF-8'
    body '<h1>Funky Title</h1><p>Here is the attachment you wanted</p>'
  end
  add_file '/path/to/myfile.pdf'
end

@round_tripped_mail = Mail.new(@mail.encoded)

@round_tripped_mail.attachments.length #=> 1
@round_tripped_mail.attachments.first.filename #=> 'myfile.pdf'
```

== Using Mail with Testing or Spec'ing Libraries

If mail is part of your system, you'll need a way to test it without actually
sending emails, the TestMailer can do this for you.

```
require 'mail'
=> true
Mail.defaults do
  delivery_method :test
end
=> #<Mail::Configuration:0x19345a8 @delivery_method=Mail::TestMailer>
Mail::TestMailer.deliveries
=> []
Mail.deliver do
  to 'mikel@me.com'
  from 'you@you.com'
  subject 'testing'
  body 'hello'
```

```
end
=> #<Mail::Message:0x19284ec ...
Mail::TestMailer.deliveries.length
=> 1
Mail::TestMailer.deliveries.first
=> #<Mail::Message:0x19284ec ...

Mail::TestMailer.deliveries.clear
=> []
```

== Excerpts from TREC Spam Corpus 2005

The spec fixture files in spec/fixtures/emails/from_trec_2005 are from the
2005 TREC Public Spam Corpus. They remain copyrighted under the terms of
that project and license agreement. They are used in this project to verify
and describe the development of this email parser implementation.

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Found in path(s):
* /opt/cola/permits/2308999132_1736194787.2494197/0/mikel-mail-2-3-1-0-g2cc19d5-tar-gz/mikel-mail-2cc19d5/README.rdoc
No license file was found, but licenses were detected in source scan.

Network Working Group
Request for Comments: 2048
BCP: 13
Obsoletes: 1521, 1522, 1590
Category: Best Current Practice

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November 1996

Multipurpose Internet Mail Extensions (MIME) Part Four: Registration Procedures

Status of this Memo

This document specifies an Internet Best Current Practices for the Internet Community, and requests discussion and suggestions for improvements. Distribution of this memo is unlimited.

Abstract

STD 11, RFC 822, defines a message representation protocol specifying considerable detail about US-ASCII message headers, and leaves the message content, or message body, as flat US-ASCII text. This set of documents, collectively called the Multipurpose Internet Mail Extensions, or MIME, redefines the format of messages to allow for

(1) textual message bodies in character sets other than US-ASCII,

(2) an extensible set of different formats for non-textual message bodies,

(3) multi-part message bodies, and

(4) textual header information in character sets other than

US-ASCII.

These documents are based on earlier work documented in RFC 934, STD 11, and RFC 1049, but extends and revises them. Because RFC 822 said so little about message bodies, these documents are largely orthogonal to (rather than a revision of) RFC 822.

This fourth document, RFC 2048, specifies various IANA registration procedures for the following MIME facilities:

(1) media types,

(2) external body access types,

(3) content-transfer-encodings.

Registration of character sets for use in MIME is covered elsewhere and is no longer addressed by this document.

These documents are revisions of RFCs 1521 and 1522, which themselves were revisions of RFCs 1341 and 1342. An appendix in RFC 2049 describes differences and changes from previous versions.

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1. Introduction

Recent Internet protocols have been carefully designed to be easily extensible in certain areas. In particular, MIME [RFC 2045] is an open-ended framework and can accommodate additional object types, character sets, and access methods without any changes to the basic protocol. A registration process is needed, however, to ensure that the set of such values is developed in an orderly, well-specified, and public manner.

This document defines registration procedures which use the Internet Assigned Numbers Authority (IANA) as a central registry for such values.

Historical Note: The registration process for media types was initially defined in the context of the asynchronous Internet mail environment. In this mail environment there is a need to limit the number of possible media types to increase the likelihood of interoperability when the capabilities of the remote mail system are not known. As media types are used in new environments, where the proliferation of media types is not a hindrance to interoperability, the original procedure was excessively restrictive and had to be generalized.

2. Media Type Registration

Registration of a new media type or types starts with the construction of a registration proposal. Registration may occur in several different registration trees, which have different requirements as discussed below. In general, the new registration

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proposal is circulated and reviewed in a fashion appropriate to the tree involved. The media type is then registered if the proposal is acceptable. The following sections describe the requirements and procedures used for each of the different registration trees.

2.1. Registration Trees and Subtype Names

In order to increase the efficiency and flexibility of the registration process, different structures of subtype names may be registered to accomodate the different natural requirements for, e.g., a subtype that will be recommended for wide support and implementation by the Internet Community or a subtype that is used to move files associated with proprietary software. The following subsections define registration "trees", distinguished by the use of faceted names (e.g., names of the form "tree.subtree...type"). Note that some media types defined prior to this document do not conform to the naming conventions described below. See Appendix A for a discussion of them.

2.1.1. IETF Tree

The IETF tree is intended for types of general interest to the Internet Community. Registration in the IETF tree requires approval by the IESG and publication of the media type registration as some form of RFC.

Media types in the IETF tree are normally denoted by names that are not explicitly faceted, i.e., do not contain period (".", full stop) characters.

The "owner" of a media type registration in the IETF tree is assumed to be the IETF itself. Modification or alteration of the specification requires the same level of processing (e.g. standards track) required for the initial registration.

2.1.2. Vendor Tree

The vendor tree is used for media types associated with commercially available products. "Vendor" or "producer" are construed as equivalent and very broadly in this context.

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A registration may be placed in the vendor tree by anyone who has need to interchange files associated with the particular product. However, the registration formally belongs to the vendor or organization producing the software or file format. Changes to the specification will be made at their request, as discussed in subsequent sections.

Registrations in the vendor tree will be distinguished by the leading facet "vnd.". That may be followed, at the discretion of the registration, by either a media type name from a well-known producer (e.g., "vnd.mudpie") or by an IANA-approved designation of the producer's name which is then followed by a media type or product designation (e.g., vnd.bigcompany.funnypictures).

While public exposure and review of media types to be registered in the vendor tree is not required, using the ietf-types list for review is strongly encouraged to improve the quality of those specifications. Registrations in the vendor tree may be submitted directly to the IANA.

2.1.3. Personal or Vanity Tree

Registrations for media types created experimentally
or as part of
products that are not distributed commercially may be registered in the personal or vanity tree. The registrations are distinguished by the leading facet "prs.".

The owner of "personal" registrations and associated specifications is the person or entity making the registration, or one to whom responsibility has been transferred as described below.

While public exposure and review of media types to be registered in the personal tree is not required, using the ietf-types list for review is strongly encouraged to improve the quality of those specifications. Registrations in the personl tree may be submitted directly to the IANA.

2.1.4. Special `x.' Tree

For convenience and symmetry with this registration scheme, media type names with "x." as the first facet may be used for the same purposes for which names starting in "x-" are normally used. These types are unregistered, experimental, and should be used only

with
the active agreement of the parties exchanging them.

However, with the simplified registration procedures described above for vendor and personal trees, it should rarely, if ever, be necessary to use unregistered experimental types, and as such use of both "x-" and "x." forms is discouraged.

2.1.5. Additional Registration Trees

From time to time and as required by the community, the IANA may, with the advice and consent of the IESG, create new top-level registration trees. It is explicitly assumed that these trees may be created for external registration and management by well-known permanent bodies, such as scientific societies for media types specific to the sciences they cover. In general, the quality of review of specifications for one of these additional registration trees is expected
to be equivalent to that which IETF would give to registrations in its own tree. Establishment of these new trees will be announced through RFC publication approved by the IESG.

2.2. Registration Requirements

Media type registration proposals are all expected to conform to various requirements laid out in the following sections. Note that requirement specifics sometimes vary depending on the registration tree, again as detailed in the following sections.

2.2.1. Functionality Requirement

Media types must function as an actual media format: Registration of things that are better thought of as a transfer encoding, as a character set, or as a collection of separate entities of another type, is not allowed. For example, although applications exist to decode the base64 transfer encoding [RFC 2045], base64 cannot be registered as a media type.

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This requirement applies regardless of the registration tree involved.

2.2.2. Naming Requirements

All registered media types must be assigned MIME type and subtype names. The combination of these names then serves to uniquely identify the media type and the format of the subtype name identifies the registration tree.

The choice of top-level type name must take the nature of media type involved into account. For example, media normally used for representing still images should be a subtype of the image content type, whereas media capable of representing audio information belongs

under the audio content type. See RFC 2046 for additional information on the basic set of top-level types and their characteristics.

New subtypes of top-level types must conform to the restrictions of the top-level type, if any. For example, all subtypes of the multipart content type must use the same encapsulation syntax.

In some cases a new media type may not "fit" under any currently defined top-level content type. Such cases are expected to be quite rare. However, if such a case arises a new top-level type can be defined to accommodate it. Such a definition must be done via standards-track RFC; no other mechanism can be used to define additional top-level content types.

These requirements apply regardless of the registration tree involved.

2.2.3. Parameter Requirements

Media types may elect to use one or more MIME content type parameters, or some parameters may be automatically made available to the media type by virtue of being a subtype of a content type that defines a set of parameters applicable to any of its subtypes. In either case, the names, values, and meanings of any parameters must

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be fully specified when a media type is registered in the IETF tree, and should be specified as completely as possible when media types are registered
in the vendor or personal trees.

New parameters must not be defined as a way to introduce new functionality in types registered in the IETF tree, although new parameters may be added to convey additional information that does not otherwise change existing functionality. An example of this would be a "revision" parameter to indicate a revision level of an external specification such as JPEG. Similar behavior is encouraged for media types registered in the vendor or personal trees but is not required.

2.2.4. Canonicalization and Format Requirements

All registered media types must employ a single, canonical data format, regardless of registration tree.

A precise and openly available specification of the format of each media type is required for all types registered in the IETF tree and must at a minimum be referenced by, if it isn't actually included in, the media type registration proposal itself.

The specifications of format and processing particulars may or may not be publically available for media types registered in the vendor tree, and such registration proposals are explicitly permitted to include only a specification of which software and version produce or process such media types. References to or inclusion of format specifications in registration proposals is encouraged but not required.

Format specifications are still required for registration in the personal tree, but may be either published as RFCs or otherwise deposited with IANA. The deposited specifications will meet the same criteria as those required to register a well-known TCP port and, in particular, need not be made public.

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Some media types involve the use of patented technology. The registration of media types involving patented technology is specifically permitted. However, the restrictions set forth in RFC 1602 on the use of patented technology in standards-track protocols must be respected when the specification of a media type is part of a standards-track protocol.

2.2.5. Interchange Recommendations

Media types should, whenever possible, interoperate across as many systems and applications as possible. However, some media types will inevitably have problems interoperating across different platforms. Problems with different versions, byte ordering, and specifics of gateway handling can and will arise.

Universal interoperability of media types is not required, but known interoperability issues should be identified whenever possible. Publication of a media type does not require an exhaustive review of interoperability, and the interoperability considerations section is subject to continuing evaluation.

These recommendations apply regardless of the registration tree involved.

2.2.6. Security Requirements

An analysis of security issues is required for for all types registered in the IETF Tree. (This is in accordance with the basic requirements for all IETF protocols.) A similar analysis for media types registered in the vendor or personal trees is encouraged but not required. However, regardless of what security analysis has or has not been done, all descriptions of security issues must be as accurate as possible regardless of registration tree. In particular, a statement that there are "no security issues associated with this

type" must not be confused with "the security issues associates with this type have not been assessed".

There is absolutely no requirement that media types registered in any tree be secure or completely free from risks. Nevertheless, all

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known security risks must be identified in the registration of a media type, again regardless of registration tree.

The security considerations section of all registrations is subject to continuing evaluation and modification, and in particular may be extended by use of the "comments on media types" mechanism described in subsequent sections.

Some of the issues that should be looked at in a security analysis of a media type are:

(1) Complex media types may include provisions for directives that institute actions on a recipient's files or other resources. In many cases provision is made for originators to specify arbitrary actions in an unrestricted fashion which may then have devastating effects. See the registration of the application/postscript media type in RFC 2046 for an example of such directives and how to handle them.

(2) Complex media types may include provisions for directives that institute actions which, while not directly harmful to the recipient, may result in disclosure of information that either facilitates a subsequent attack or else violates a recipient's privacy in some way. Again, the registration of the application/postscript media type illustrates how such directives can be handled.

(3) A media type might be targeted for applications that require some sort of security assurance but not provide the necessary security mechanisms themselves. For example, a media type could be defined for storage of confidential medical information which in turn requires an external confidentiality service.

2.2.7. Usage and Implementation Non-requirements

In the asynchronous mail environment, where information on the capabilities of the remote mail agent is frequently not available to the sender, maximum interoperability is attained by restricting the number of media types used to those "common" formats expected to be widely implemented. This was asserted in the past as a reason to

limit the number of possible media types and resulted in a registration process with a significant hurdle and delay for those registering media types.

However, the need for "common" media types does not require limiting the registration of new media types. If a limited set of media types is recommended for a particular application, that should be asserted by a separate applicability statement specific for the application and/or environment.

As such, universal support and implementation of a media type is NOT a requirement for registration. If, however, a media type is explicitly intended for limited use, this should be noted in its registration.

2.2.8. Publication Requirements

Proposals for media types registered in the IETF tree must be published as RFCs. RFC publication of vendor and personal media type proposals is encouraged but not required. In all cases IANA will retain copies of all media type proposals and "publish" them as part of the media types registration tree itself.

Other than in the IETF tree, the registration of a data type does not imply endorsement, approval, or recommendation by IANA or IETF or even certification that the specification is adequate. To become Internet Standards, protocol, data objects, or whatever must go through the IETF standards process. This is too difficult and too lengthy a process for the convenient registration of media types.

The IETF tree exists for media types that do require require a substantive review and approval process with the vendor and personal trees exist for those that do not. It is expected that applicability statements for particular applications will be published from time to time that recommend implementation of, and support for, media types that have proven particularly useful in those contexts.

As discussed above, registration of a top-level type requires standards-track processing and, hence, RFC publication.

2.2.9. Additional Information

Various sorts of optional information may be included in the specification of a media type if it is available:

(1) Magic number(s) (length, octet values). Magic numbers are byte sequences that are always present and thus can be used to identify entities as being of a given media

type.

(2) File extension(s) commonly used on one or more platforms to indicate that some file containing a given type of media.

(3) Macintosh File Type code(s) (4 octets) used to label files containing a given type of media.

Such information is often quite useful to implementors and if available should be provided.

2.3. Registration Procedure

The following procedure has been implemented by the IANA for review and approval of new media types. This is not a formal standards process, but rather an administrative procedure intended to allow community comment and sanity checking without excessive time delay. For registration in the IETF tree, the normal IETF processes should be followed, treating posting of an internet-draft and announcement on the ietf-types list (as described in the next subsection) as a first step. For registrations in the vendor or personal tree, the initial review step described below may be omitted and the type registered directly by submitting the template and an explanation directly to IANA (at iana@iana.org). However, authors of vendor or personal media type specifications are encouraged to seek community review and comment whenever that is feasible.

2.3.1. Present the Media Type to the Community for Review

Send a proposed media type registration to the "ietf-types@iana.org" mailing list for a two week review period. This mailing list has been established for the purpose of reviewing proposed media and

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access types. Proposed media types are not formally registered and must not be used; the "x-" prefix specified in RFC 2045 can be used until registration is complete.

The intent of the public posting is to solicit comments and feedback on the choice of type/subtype name, the unambiguity of the references with respect to versions and external profiling information, and a review of any interoperability or security considerations. The submitter may submit a revised registration, or withdraw the registration completely, at any time.

2.3.2. IESG Approval

Media types registered in the IETF tree must be submitted to the IESG for approval.

2.3.3. IANA Registration

Provided that the media type meets the requirements for media types and has obtained approval that is necessary, the author may submit the registration request to the IANA, which will register the media type and make the media type registration available to the community.

2.4. Comments on Media Type Registrations

Comments on registered media types may be submitted by members of the community to IANA. These comments will be passed on to the "owner" of the media type if possible. Submitters of comments may request that their comment be attached to the media type registration itself, and if IANA approves of this the comment will be made accessible in conjunction with the type registration itself.

2.5. Location of Registered Media Type List

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Media type registrations will be posted in the anonymous FTP directory "ftp://ftp.isi.edu/in-notes/iana/assignments/media-types/" and all registered media types will be listed in the periodically issued "Assigned Numbers" RFC [currently STD 2, RFC 1700]. The media type description and other supporting material may also be published as an Informational RFC by sending it to "rfc-editor@isi.edu" (please follow the instructions to RFC authors [RFC-1543]).

2.6. IANA Procedures for Registering Media Types

The IANA will only register media types in the IETF tree in response to a communication from the IESG stating that a given registration has been approved. Vendor and personal types will be registered by the IANA automatically and without any formal review as long as the following minimal conditions are met:

(1) Media types must function as an actual media format. In particular, character sets and transfer encodings may not be registered as media types.

(2) All media types must have properly formed type and subtype names. All type names must be defined by a standards-track RFC. All subtype names must be unique, must conform to the MIME grammar for such names, and must contain the proper tree prefix.

(3) Types registered in the personal tree must either provide a format specification or a pointer to one.

(4) Any security considerations given must not be obviously bogus. (It is neither possible nor necessary for the IANA to conduct a comprehensive security review of media type registrations. Nevertheless, IANA has the authority to identify obviously incompetent material and exclude it.)

2.7. Change Control

Once a media type has been published by IANA, the author may request

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a change to its definition. The descriptions of the different registration trees above designate the "owners" of each type of registration. The change request follows the same procedure as the registration request:

(1) Publish the revised template on the ietf-types list.

(2) Leave at least two weeks for comments.

(3) Publish using IANA after formal review if required.

Changes should be requested only when there are serious omission or errors in the published specification. When review is required, a change request may be denied if it renders entities that were valid under the previous definition invalid under the new definition.

The owner of a content type may pass responsibility for the content type to another person or agency by informing IANA and the ietf-types list; this can be done without discussion or review.

The IESG may reassign responsibility for a media type. The most common case of this will be to enable changes to be made to types where the author of the registration has died, moved out of contact or is otherwise unable to make changes that are important to the community.

Media type registrations may not be deleted; media types which are no longer believed appropriate for use can be declared OBSOLETE by a change to their "intended use" field; such media types will be clearly marked in the lists published by IANA.

2.8. Registration Template

To: ietf-types@iana.org
Subject: Registration of MIME media type XXX/YYY

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MIME media type name:

MIME subtype name:

Required parameters:

Optional parameters:

Encoding considerations:

Security considerations:

Interoperability considerations:

Published specification:

Applications which use this media type:

Additional information:

Magic number(s):
File extension(s):
Macintosh File Type Code(s):

Person & email address to contact for further information:

Intended usage:

(One of COMMON, LIMITED USE or OBSOLETE)

Author/Change controller:

(Any other information that the author deems interesting may be added below this line.)

3. External Body Access Types

RFC 2046 defines the message/external-body media type, whereby a MIME entity can act as pointer to the actual body data in lieu of including the data directly in the entity body. Each message/external-body reference specifies an access type, which determines the mechanism used to retrieve the actual body data. RFC 2046 defines an initial set of access types, but allows for the

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registration of additional access types to accommodate new retrieval mechanisms.

3.1. Registration Requirements

New access type specifications must conform to a number of requirements as described below.

3.1.1. Naming Requirements

Each access type must have a unique name. This name appears in the access-type parameter in the message/external-body content-type header field, and must conform to MIME content type parameter syntax.

3.1.2. Mechanism Specification Requirements

All of the protocols, transports, and procedures used by a given access type must be described, either in the specification of the access type itself or in some other publicly available specification, in sufficient detail for the access type to be implemented by any competent implementor. Use of secret and/or proprietary methods in access types are expressly prohibited. The restrictions imposed by RFC 1602 on the standardization of patented algorithms must be respected as well.

3.1.3. Publication Requirements

All access types must be described by an RFC. The RFC may be informational rather than standards-track, although standard-track review and approval are encouraged for all access types.

3.1.4. Security Requirements

Any known security issues that arise from the use of the access type must be completely and fully described. It is not required that the access type be secure or that it be free from risks, but that the known risks be identified. Publication of a new access type does not require an exhaustive security review, and the security considerations section is subject to continuing evaluation. Additional security considerations should be addressed by publishing revised versions of the access type specification.

3.2. Registration Procedure

Registration of a new access type starts with the construction of a draft of an RFC.

3.2.1. Present the Access Type to the Community

Send a proposed access type specification to the "ietf-types@iana.org" mailing list for a two week review period. This mailing list has been established for the purpose of reviewing proposed access and media types. Proposed access types are not formally registered and must not be used.

The intent of the public posting is to solicit comments and feedback on the access type specification and a review of any security considerations.

3.2.2. Access Type Reviewer

When the two week period has passed, the access type reviewer, who is appointed by the IETF Applications Area Director, either forwards the request to iana@isi.edu, or rejects it because of significant objections raised on the list.

Decisions made by the reviewer must be posted to the ietf-types mailing
list within 14 days. Decisions made by the reviewer may be appealed to the IESG.

3.2.3. IANA Registration

Provided that the access type has either passed review or has been successfully appealed to the IESG, the IANA will register the access type and make the registration available to the community. The specification of the access type must also be published as an RFC. Informational RFCs are published by sending them to "rfc-editor@isi.edu" (please follow the instructions to RFC authors [RFC-1543]).

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3.3. Location of Registered Access Type List

Access type registrations will be posted in the anonymous FTP directory "ftp://ftp.isi.edu/in-notes/iana/assignments/access-types/" and all registered access types will be listed in the periodically issued "Assigned Numbers" RFC [currently RFC-1700].

3.4. IANA Procedures for Registering Access Types

The identity of the access type reviewer is communicated to the IANA by the IESG. The IANA then only acts in response to access type definitions that either are approved by the access type reviewer and forwarded by the reviewer to the IANA for registration, or in response to a communication from the IESG that an access type definition appeal has overturned the access type reviewer's ruling.

4. Transfer Encodings

Transfer encodings are tranformations applied to MIME media types after conversion to the media type's canonical form. Transfer encodings are used for several purposes:

(1) Many transports, especially message transports, can only handle data consisting of relatively short lines of text. There can also be severe restrictions on what characters can be used in these lines of text -- some transports are restricted to a small subset of US-ASCII

and others cannot handle certain character sequences. Transfer encodings are used to transform binary data into textual form that can survive such transports. Examples of this sort of transfer encoding include the base64 and quoted-printable transfer encodings defined in RFC 2045.

(2) Image, audio, video, and even application entities are sometimes quite large. Compression algorithms are often quite effective in reducing the size of large entities. Transfer encodings can be used to apply general-purpose

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non-lossy compression algorithms to MIME entities.

(3) Transport encodings can be defined as a means of representing existing encoding formats in a MIME context.

IMPORTANT: The standardization of a large numbers of different transfer encodings is seen as a significant barrier to widespread interoperability and is expressely discouraged. Nevertheless, the following procedure has been defined to provide a means of defining additional transfer encodings, should standardization actually be justified.

4.1. Transfer Encoding Requirements

Transfer encoding specifications must conform to a number of requirements as described below.

4.1.1. Naming Requirements

Each transfer encoding must have a unique name. This name appears in the Content-Transfer-Encoding header field and must conform to the syntax of that field.

4.1.2. Algorithm Specification Requirements

All of the algorithms used in a transfer encoding (e.g. conversion to printable form, compression) must be described in their entirety in the transfer encoding specification. Use of secret and/or proprietary algorithms in standardized transfer encodings are expressly prohibited. The restrictions imposed by RFC 1602 on the standardization of patented algorithms must be respected as well.

4.1.3. Input Domain Requirements

All transfer encodings must be applicable to an arbitrary sequence of octets of any length. Dependence on particular input forms is not

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allowed.

It should be noted that the 7bit and 8bit encodings do not conform to this requirement. Aside from the undesireability of having specialized encodings, the intent here is to forbid the addition of additional encodings along the lines of 7bit and 8bit.

4.1.4. Output Range Requirements

There is no requirement that a particular tranfer encoding produce a particular form of encoded output. However, the output format for each transfer encoding must be fully and completely documented. In particular, each specification must clearly state whether the output format always lies within the confines of 7bit data, 8bit data, or is simply pure binary data.

4.1.5. Data Integrity and Generality Requirements

All transfer encodings must be fully invertible on any platform; it must be possible for anyone to recover the original data by performing the corresponding decoding operation. Note that this requirement effectively excludes all forms of lossy compression as well as all forms of encryption from use as a transfer encoding.

4.1.6. New Functionality Requirements

All transfer encodings must provide some sort of new functionality. Some degree of functionality overlap with previously defined transfer encodings is acceptable, but any new transfer encoding must also offer something no other transfer encoding provides.

4.2. Transfer Encoding Definition Procedure

Definition of a new transfer encoding starts with the construction of a draft of a standards-track RFC.

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The RFC must define the transfer encoding precisely and completely, and must also provide substantial justification for defining and standardizing a new transfer encoding. This specification must then be presented to the IESG for consideration. The IESG can

(1) reject the specification outright as being inappropriate for standardization,

(2) approve the formation of an IETF working group to work on the specification in accordance with IETF procedures, or,

(3) accept the specification as-is and put it directly on the standards track.

Transfer encoding specifications on the standards track follow normal IETF rules for standards track documents. A transfer encoding is considered to be defined and available for use once it is on the standards track.

4.3. IANA Procedures for Transfer Encoding Registration

There is no need for a special procedure for registering Transfer Encodings with the IANA.
All legitimate transfer encoding registrations must appear as a standards-track RFC, so it is the IESG's responsibility to notify the IANA when a new transfer encoding has been approved.

4.4. Location of Registered Transfer Encodings List

Transfer encoding registrations will be posted in the anonymous FTP directory "ftp://ftp.isi.edu/in-notes/iana/assignments/transfer-encodings/" and all registered transfer encodings will be listed in the periodically issued "Assigned Numbers" RFC [currently RFC-1700].

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Appendix A -- Grandfathered Media Types

A number of media types, registered prior to 1996, would, if registered under the guidelines in this document, be placed into either the vendor or personal trees. Reregistration of those types to reflect the appropriate trees is encouraged, but not required. Ownership and change control principles outlined in this document apply to those types as if they had been registered in the trees described above.

Found in path(s):
* /opt/cola/permits/2308999132_1736194787.2494197/0/mikel-mail-2-3-1-0-g2cc19d5-tar-gz/mikel-mail-2cc19d5/reference/rfc2048 Multipurpose Internet Mail Extensions (4).txt
No license file was found, but licenses were detected in source scan.

Updated by: 1101, 1183, 1348, 1876, 1982, 1995, STANDARD
1996, 2065, 2136, 2137, 2181, 2308,
2535, 2845, 3425, 3658, 4033, 4034,
4035, 4343 Errata
Network Working Group P. Mockapetris
Request for Comments: 1035 ISI
November 1987
Obsoletes: RFCs 882, 883, 973

DOMAIN NAMES - IMPLEMENTATION AND SPECIFICATION

1. STATUS OF THIS MEMO

This RFC describes the details of the domain system and protocol, and assumes that the reader is familiar with the concepts discussed in a companion RFC, "Domain Names - Concepts and Facilities" [RFC-1034].

The domain system is a mixture of functions and data types which are an official protocol and
functions and data types which are still
experimental. Since the domain system is intentionally extensible, new

data types and experimental behavior should always be expected in parts of the system beyond the official protocol. The official protocol parts include standard queries, responses and the Internet class RR data formats (e.g., host addresses). Since the previous RFC set, several definitions have changed, so some previous definitions are obsolete.

Experimental or obsolete features are clearly marked in these RFCs, and such information should be used with caution.

The reader is especially cautioned not to depend on the values which appear in examples to be current or complete, since their purpose is primarily pedagogical. Distribution of this memo is unlimited.

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2. INTRODUCTION

2.1. Overview

The goal of domain names is to provide a mechanism for naming resources in such a way that the names are usable in different hosts, networks, protocol families, internets, and administrative organizations.

From the user's point of view, domain names are useful as arguments to a local agent, called a resolver, which retrieves information associated with the domain name. Thus a user might ask for the host address or mail information associated with a particular domain name. To enable the user to request a particular type of information, an appropriate query type is passed to the resolver with the domain name. To the user, the domain tree is a single information space; the resolver is responsible for hiding the distribution of data among name servers from the user.

From the resolver's point of view, the database that makes up the domain space is distributed among various name servers. Different parts of the domain space are stored in different name servers, although a particular data item will be stored redundantly in two or more name servers. The resolver starts with knowledge of at least one name server. When the resolver processes a user query it asks a known name server for the information; in return, the resolver either receives the desired information or a referral to another name server. Using these referrals, resolvers learn the identities and contents of other name servers. Resolvers are responsible for dealing with the distribution of the domain space and dealing with the effects of name server failure by consulting redundant databases in other servers.

Name servers manage two kinds of data. The
first kind of data held in
sets called zones; each zone is the complete database for a particular
"pruned" subtree of the domain space. This data is called
authoritative. A name server periodically checks to make sure that its
zones are up to date, and if not, obtains a new copy of updated zones

from master files stored locally or in another name server. The second
kind of data is cached data which was acquired by a local resolver.
This data may be incomplete, but improves the performance of the
retrieval process when non-local data is repeatedly accessed. Cached
data is eventually discarded by a timeout mechanism.

This functional structure isolates the problems of user interface,
failure recovery, and distribution in the resolvers and isolates the
database update and refresh problems in the name servers.

2.2. Common configurations

A
host can participate in the domain name system in a number of ways,
depending on whether the host runs programs that retrieve information
from the domain system, name servers that answer queries from other
hosts, or various combinations of both functions. The simplest, and
perhaps most typical, configuration is shown below:

```
            Local Host                    |  Foreign
                                          |
  +---------+              +----------+        |  +--------+
  |        | user queries  |          |queries  | |       |
  |  User   |--------------->|         |---------|->|Foreign |
  | Program |              | Resolver |        | |  Name  |
  |        |<--------------|          |<--------|--| Server |
  |        | user responses|          |responses|  |       |
  +---------+              +----------+        |  +--------+
                        |    A           |
            cache additions |     | references
|
                         V     |           |
                        +----------+         |
                        |  cache   |         |
```

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```
                    +----------+        |
```

User programs interact with the domain name space through resolvers; the format of user queries and user responses is specific to the host and its operating system. User queries will typically be operating system calls, and the resolver and its cache will be part of the host operating system. Less capable hosts may choose to implement the resolver as a subroutine to be linked in with every program that needs its services. Resolvers answer user queries with information they acquire via queries to foreign name servers and the local cache.

Note that the resolver may have to make several queries to several different foreign name servers to answer a particular user query, and hence the resolution of a user query may involve several network accesses and an arbitrary amount of time. The queries to foreign name servers and the corresponding responses have a standard format described

in this memo, and may be datagrams.

Depending on its capabilities, a name server could be a stand alone program on a dedicated machine or a process or processes on a large timeshared host. A simple configuration might be:

```
            Local Host                    |  Foreign
                                          |
   +---------+                            |
  /        /|                            |
 +---------+ |            +----------+        |  +--------+
 |        | |            |         |responses|  |        |
 |        | |            |   Name   |---------|->|Foreign |
 |  Master |-------------->|  Server  |        |  |Resolver|
 |  files  | |
  |         |<--------|--|        |
 |        |/            |         | queries |  +--------+
 +---------+             +----------+        |
```

Here a primary name server acquires information about one or more zones by reading master files from its local file system, and answers queries about those zones that arrive from foreign resolvers.

The DNS requires that all zones be redundantly supported by more than one name server. Designated secondary servers can acquire zones and check for updates from the primary server using the zone transfer protocol of the DNS. This configuration is shown below:

```
            Local Host                    |  Foreign
                                          |
   +---------+                            |
  /        /|                            |
  +---------+ |            +----------+        |  +--------+
  |        | |            |         |responses|  |       |
  |        | |
 |   Name   |---------|->|Foreign |
  |  Master |--------------->|  Server  |        |  |Resolver|
  |  files  | |            |         |<--------|--|       |
  |        |/             |         | queries |  +--------+
  +---------+              +----------+        |
                            A     |maintenance |  +--------+
                            |    +------------|->|       |
                            |     queries     |  |Foreign |
                            |                 | |  Name  |
                            +------------------|--| Server |
                         maintenance responses |  +--------+
```

In this configuration, the name server periodically establishes a virtual circuit to a foreign name server to acquire a copy of a zone or to check that an existing copy has not changed. The messages sent for

these maintenance activities follow the same form as queries and responses, but the message sequences are somewhat different.

The information flow in a host that supports all aspects of the domain name system is shown below:

```
            Local Host                    |  Foreign
                                          |
  +---------+              +----------+        |  +--------+
  |        | user queries  |         |queries  | |       |
  |  User   |--------------->|         |---------|->|Foreign |
  | Program |              | Resolver |        | |  Name  |
```

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```
  |        |<--------------|         |<--------|--| Server |
  |        | user responses|         |responses|  |        |
  +---------+              +----------+        |  +--------+
                        |    A           |
            cache additions |    | references |
                        V    |           |

                    +----------+        |
                       |  Shared  |        |
                       | database |        |
                       +----------+        |
                         A    |           |
   +---------+     refreshes |    | references |
  /        /|              |    V           |
  +---------+ |            +----------+        |  +--------+
  |        | |            |         |responses|  |        |
  |        | |            |   Name   |---------|->|Foreign |
  |  Master |-------------->|  Server  |        |  |Resolver|
  |  files  | |            |         |<--------|--|        |
  |        |/             |         | queries |  +--------+
  +---------+              +----------+        |
                         A    |maintenance |  +--------+
                         |    +------------|->|        |
                         |     queries     |  |Foreign
|
                         |                 | |  Name  |
                         +-----------------|--| Server |
                       maintenance responses |  +--------+
```

The shared database holds domain space data for the local name server and resolver. The contents of the shared database will typically be a mixture of authoritative data maintained by the periodic refresh operations of the name server and cached data from previous resolver requests. The structure of the domain data and the necessity for synchronization between name servers and resolvers imply the general characteristics of this database, but the actual format is up to the local implementor.

Information flow can also be tailored so that a group of hosts act together to optimize activities. Sometimes this is done to offload less

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capable hosts
so that they do not have to implement a full resolver.
This can be appropriate for PCs or hosts which want to minimize the amount of new network code which is required. This scheme can also allow a group of hosts can share a small number of caches rather than maintaining a large number of separate caches, on the premise that the centralized caches will have a higher hit ratio. In either case, resolvers are replaced with stub resolvers which act as front ends to resolvers located in a recursive server in one or more name servers known to perform that service:

```
                Local Hosts                  |  Foreign
                                             |
   +---------+                               |
   |         | responses                     |
   | Stub    |<--------------------+         |
   | Resolver|                     |         |
   |         |----------------+    |         |
   +---------+ recursive      |    |
    |
             queries        |    |         |
                          V    |         |
   +---------+ recursive     +----------+         |  +--------+
   |         | queries       |          |queries  | |        |
   | Stub    |-------------->| Recursive|---------|->|Foreign |
   | Resolver|               | Server   |         | |  Name  |
   |         |<--------------|          |<--------|--| Server |
   +---------+ responses     |          |responses|  |        |
                           +----------+         |  +--------+
                           |  Central |         |
                           |   cache  |         |
                           +----------+         |
```

In any case, note that domain components are always replicated for reliability whenever possible.

2.3. Conventions

The domain system has several conventions dealing with low-level, but fundamental, issues. While the implementor is free to violate these conventions WITHIN
HIS OWN SYSTEM, he must observe these conventions in
ALL behavior observed from other hosts.

2.3.1. Preferred name syntax

The DNS specifications attempt to be as general as possible in the rules for constructing domain names. The idea is that the name of any

existing object can be expressed as a domain name with minimal changes.

However, when assigning a domain name for an object, the prudent user will select a name which satisfies both the rules of the domain system and any existing rules for the object, whether these rules are published or implied by existing programs.

For example, when naming a mail domain, the user should satisfy both the rules of this memo and those in RFC-822. When creating a new host name, the old rules for HOSTS.TXT should be followed. This avoids problems when old software is converted to use domain names.

The following syntax will result in fewer problems with many

applications that use domain names (e.g., mail, TELNET).

<domain> ::= <subdomain> | " "

<subdomain> ::= <label> | <subdomain> "." <label>

<label> ::= <letter> [[<ldh-str>] <let-dig>]

<ldh-str> ::= <let-dig-hyp> | <let-dig-hyp> <ldh-str>

<let-dig-hyp> ::= <let-dig> | "-"

<let-dig> ::= <letter> | <digit>

<letter> ::= any one of the 52 alphabetic characters A through Z in upper case and a through z in lower case

<digit> ::= any one of the ten digits 0 through 9

Note that while upper and lower case letters are allowed in domain names, no significance is attached to the case. That is, two names with the same spelling but different case are to be treated as if identical.

The labels must follow the rules for ARPANET host names. They must start with a letter, end with a letter or digit, and have as interior characters only letters, digits, and hyphen. There are also some

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restrictions on the length. Labels must
be 63 characters or less.

For example, the following strings identify hosts in the Internet:

A.ISI.EDU XX.LCS.MIT.EDU SRI-NIC.ARPA

2.3.2. Data Transmission Order

The order of transmission of the header and data described in this
document is resolved to the octet level. Whenever a diagram shows a

group of octets, the order of transmission of those octets is the normal
order in which they are read in English. For example, in the following
diagram, the octets are transmitted in the order they are numbered.

```
 0                   1
 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5
+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+
|     1     |     2     |
+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+
|     3     |     4     |
+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+
|     5     |     6     |
+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+
```

Whenever
an octet represents a numeric quantity, the left most bit in
the diagram is the high order or most significant bit. That is, the bit
labeled 0 is the most significant bit. For example, the following
diagram represents the value 170 (decimal).

```
 0 1 2 3 4 5 6 7
+-+-+-+-+-+-+-+-+
|1 0 1 0 1 0 1 0|
+-+-+-+-+-+-+-+-+
```

Similarly, whenever a multi-octet field represents a numeric quantity
the left most bit of the whole field is the most significant bit. When
a multi-octet quantity is transmitted the most significant octet is
transmitted first.

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2.3.3. Character Case

For all parts of the DNS that are part of the official protocol, all comparisons between character strings (e.g., labels, domain names, etc.) are done in a case-insensitive manner. At present, this rule is in force throughout the domain system without exception. However, future additions beyond current usage may need to use the full binary octet capabilities in names, so attempts to store domain names in 7-bit ASCII or use of special bytes to terminate labels, etc., should be avoided.

When data enters the domain system, its original case should be preserved whenever possible. In certain circumstances this cannot be done. For example, if two RRs are stored in a database, one at x.y and one at X.Y, they are actually stored at the same place in the database, and hence only one casing would be preserved. The basic rule is that case can be discarded only when data is used to define structure in a database, and two names are identical when compared in a case insensitive manner.

Loss of case sensitive data must be minimized. Thus while data for x.y and X.Y may both be stored under a single location x.y or X.Y, data for a.x and B.X would never be stored under A.x, A.X, b.x, or b.X. In general, this preserves the case of the first label of a domain name, but forces standardization of interior node labels.

Systems administrators who enter data into the domain database should take care to represent the data they supply to the domain system in a case-consistent manner if their system is case-sensitive. The data distribution system in the domain system will ensure that consistent representations are preserved.

2.3.4. Size limits

Various objects and parameters in the DNS have size limits. They are listed below. Some could be easily changed, others are more fundamental.

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labels 63 octets or less

names 255 octets or less

TTL positive values of a signed 32 bit number.

UDP messages 512 octets or less

3. DOMAIN NAME SPACE AND RR DEFINITIONS

3.1. Name space definitions

Domain names in messages are expressed in terms of a sequence of labels. Each label is represented as a one octet length field followed by that number of octets. Since every domain name ends with the null label of the root, a domain name is terminated by a length byte of zero. The high order two bits of every length octet must be zero, and the remaining six bits of the length field limit the label to 63 octets or less.

To simplify implementations, the total length of a domain name (i.e., label octets and label length octets) is restricted to 255 octets or less.

Although labels can contain any 8 bit values in octets that make up a label, it is strongly recommended that labels follow the preferred syntax described elsewhere in this memo, which is compatible with existing host naming conventions. Name servers and resolvers must compare labels in a case-insensitive manner (i.e., A=a), assuming ASCII with zero parity. Non-alphabetic codes must match exactly.

3.2. RR definitions

3.2.1. Format

All RRs have the same top level format shown below:

```
                                1  1  1  1  1  1
  0  1  2  3  4  5  6  7  8  9  0  1  2  3  4  5
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

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```
  |                                               |
  /                                               /
  /                    NAME                       /
  |                                               |
  +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
  |                    TYPE                       |
  +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
  |                    CLASS                      |
  +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
  |                    TTL                        |
  |                                               |
  +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
  |                  RDLENGTH                     |
  +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--|
  /                    RDATA                      /
  /
                       /
  +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

where:

NAME an owner name, i.e., the name of the node to which this resource record pertains.

TYPE two octets containing one of the RR TYPE codes.

CLASS two octets containing one of the RR CLASS codes.

TTL a 32 bit signed integer that specifies the time interval that the resource record may be cached before the source of the information should again be consulted. Zero values are interpreted to mean that the RR can only be used for the transaction in progress, and should not be cached. For example, SOA records are always distributed with a zero TTL to prohibit caching. Zero values can also be used for extremely volatile data.

RDLENGTH an unsigned 16 bit integer that specifies the length in octets of the
RDATA field.

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RDATA a variable length string of octets that describes the resource. The format of this information varies according to the TYPE and CLASS of the resource record.

3.2.2. TYPE values

TYPE fields are used in resource records. Note that these types are a subset of QTYPEs.

TYPE	value and meaning
A	1 a host address
NS	2 an authoritative name server
MD	3 a mail destination (Obsolete - use MX)
MF	4 a mail forwarder (Obsolete - use MX)
CNAME	5 the canonical name for an alias
SOA	6 marks the start of a zone of authority
MB	7 a mailbox domain name (EXPERIMENTAL)
MG	8 a mail group member (EXPERIMENTAL)
MR	9 a mail rename domain name (EXPERIMENTAL)
NULL	10 a null RR (EXPERIMENTAL)
WKS	11 a well known service description
PTR	12 a domain name pointer
HINFO	13 host information
MINFO	14 mailbox or mail list information
MX	15 mail exchange
TXT	16 text strings

3.2.3. QTYPE values

QTYPE fields appear in the question part of a query. QTYPES are a

superset of TYPEs, hence all TYPEs are valid QTYPEs. In addition, the following QTYPEs are defined:

AXFR 252 A request for a transfer of an entire zone

MAILB 253 A request for mailbox-related records (MB, MG or MR)

MAILA 254 A request for mail agent RRs (Obsolete - see MX)

* 255 A request for all records

3.2.4. CLASS values

CLASS fields appear in resource records. The following CLASS mnemonics and values are defined:

IN
1 the Internet

CS 2 the CSNET class (Obsolete - used only for examples in some obsolete RFCs)

CH 3 the CHAOS class

HS 4 Hesiod [Dyer 87]

3.2.5. QCLASS values

QCLASS fields appear in the question section of a query. QCLASS values are a superset of CLASS values; every CLASS is a valid QCLASS. In addition to CLASS values, the following QCLASSes are defined:

* 255 any class

3.3. Standard RRs

The following RR definitions are expected to occur, at least potentially, in all classes. In particular, NS, SOA, CNAME, and PTR will be used in all classes, and have the same format in all classes. Because their RDATA format is known, all domain names in the RDATA section of these RRs may be compressed.

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<domain-name> is a domain name represented as a series of labels, and terminated by a label with zero length. <character-string> is a single length octet followed by that number of characters. <character-string> is
treated as binary information, and can be up to 256 characters in length (including the length octet).

3.3.1. CNAME RDATA format

```
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
/                CNAME                /
/                                     /
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

where:

CNAME A <domain-name> which specifies the canonical or primary name for the owner. The owner name is an alias.

CNAME RRs cause no additional section processing, but name servers may choose to restart the query at the canonical name in certain cases. See the description of name server logic in [RFC-1034] for details.

3.3.2. HINFO RDATA format

```
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
/                CPU
      /
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
/                 OS                  /
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

where:

CPU A <character-string> which specifies the CPU type.

OS A <character-string> which specifies the operating system type.

Standard values for CPU and OS can be found in [RFC-1010].

HINFO records are used to acquire general information about a host. The main use is for protocols such as FTP that can use special procedures when talking between machines or operating systems of the same type.

3.3.3. MB RDATA format (EXPERIMENTAL)

```
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
/                MADNAME                /
/                                       /
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

where:

MADNAME A <domain-name> which specifies a host which has the specified mailbox.

MB records cause additional section processing which looks up an A type RRs corresponding to MADNAME.

3.3.4. MD RDATA format (Obsolete)

```
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
/                MADNAME                /
/                                       /
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

where:

MADNAME A <domain-name> which specifies a host which has a mail agent for the domain which should be able to deliver mail for the domain.

MD records cause additional section processing which looks up an A type record corresponding to MADNAME.

MD is obsolete. See the definition of MX and [RFC-974] for details of the new scheme. The recommended policy for dealing with MD RRs found in a master file is to reject them, or to convert them to MX RRs with a preference of 0.

3.3.5. MF RDATA format (Obsolete)

```
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
/                MADNAME                /
/                                       /
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

where:

MADNAME A <domain-name> which specifies a host which has a mail agent for the domain which will accept mail for forwarding to the domain.

MF records cause additional section processing which looks up an A type record corresponding to MADNAME.

MF is obsolete. See the definition of MX and [RFC-974] for details ofw the new scheme. The recommended policy for dealing with MD RRs found in a master file is to reject them, or to convert them to MX RRs with a preference of 10.

3.3.6. MG RDATA format (EXPERIMENTAL)

```
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
/                MGMNAME                /
/                                       /
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

where:

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MGMNAME A <domain-name> which specifies a mailbox which is a member of the mail group specified by the domain name.

MG records cause no additional section processing.

3.3.7. MINFO RDATA format (EXPERIMENTAL)

```
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
/                RMAILBX                /
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
/                EMAILBX                /
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

where:

RMAILBX A <domain-name> which specifies a mailbox which is responsible for the mailing list or mailbox. If this domain name names the root, the owner of the MINFO RR is responsible for itself. Note that many existing mailing lists use a mailbox X-request for the RMAILBX field of mailing list X, e.g., Msgroup-request for Msgroup. This field provides a more general mechanism.

EMAILBX A <domain-name> which specifies a mailbox which is to receive error messages related to the mailing list or mailbox specified by the owner of the MINFO RR (similar to the ERRORS-TO: field which has been proposed). If this domain name names the root, errors should be returned to the sender of the message.

MINFO records cause no additional section processing. Although these records can be associated with a simple mailbox, they are usually used with a mailing list.

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3.3.8. MR RDATA format (EXPERIMENTAL)

```
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
/                NEWNAME                /
/                                       /
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

where:

NEWNAME A <domain-name> which specifies a mailbox which is the proper rename of the specified mailbox.

MR records cause no additional section processing. The main use for MR is as a forwarding entry for a user who has moved to a different mailbox.

3.3.9. MX RDATA format

```
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|               PREFERENCE                |
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
/                EXCHANGE               /
/                                       /
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

where:

PREFERENCE A 16 bit integer which specifies the preference given to this RR among others at the same owner. Lower values are
preferred.

EXCHANGE A <domain-name> which specifies a host willing to act as a mail exchange for the owner name.

MX records cause type A additional section processing for the host specified by EXCHANGE. The use of MX RRs is explained in detail in [RFC-974].

3.3.10. NULL RDATA format (EXPERIMENTAL)

```
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
/               <anything>              /
/                                       /
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

Anything at all may be in the RDATA field so long as it is 65535 octets or less.

NULL records cause no additional section processing. NULL RRs are not allowed in master files. NULLs are used as placeholders in some experimental extensions of the DNS.

3.3.11. NS RDATA format

```
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
/                NSDNAME                /
/                                       /
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

where:

NSDNAME A <domain-name> which specifies a host which should be authoritative for the specified class and domain.

NS records cause both the usual additional section processing to locate a type A record, and, when used in a referral, a special search of the zone in which they reside for glue information.

The NS RR states that the named host should be expected to have a zone starting at owner name of the specified class. Note that the class may not indicate the protocol family which should be used to communicate with the host, although it is typically a strong hint. For example, hosts which are name servers for either Internet (IN) or Hesiod (HS) class information are normally queried using IN class protocols.

3.3.12. PTR RDATA format

```
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
/                PTRDNAME               /
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

where:

PTRDNAME A <domain-name> which points to some location in the domain name space.

PTR records cause no additional section processing. These RRs are used

in special domains to point to some other location in the domain space. These records are simple data, and don't imply any special processing similar to that performed by CNAME, which identifies aliases. See the description of the IN-ADDR.ARPA domain for an example.

3.3.13. SOA RDATA format

```
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
/                 MNAME                 /
/                                       /
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
/
                RNAME                   /
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|               SERIAL                  |
|                                       |
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|               REFRESH                 |
|                                       |
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|                RETRY                  |
|                                       |
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|               EXPIRE                  |
|                                       |
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|               MINIMUM                 |
|                                       |
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

where:

MNAME The <domain-name> of the name server that was the

original or primary source of data for this zone.

RNAME A <domain-name> which specifies the mailbox of the person responsible for this zone.

SERIAL The unsigned 32 bit version number of the original copy of the zone. Zone transfers preserve this value. This value wraps and should be compared using sequence space arithmetic.

REFRESH A 32 bit time interval before the zone should be refreshed.

RETRY A 32 bit time interval that should elapse before a failed refresh should be retried.

EXPIRE A 32 bit time value that specifies the upper limit on the time interval that can elapse before the zone is no longer authoritative.

MINIMUM The unsigned 32 bit minimum TTL field that should be exported with any RR from this zone.

SOA records cause no additional section processing.

All times are in units of seconds.

Most of these fields are pertinent only for name server maintenance operations. However, MINIMUM is used in all query operations that retrieve RRs from a zone. Whenever a RR is sent in a response to a query, the TTL field is set to the maximum of the TTL field from the RR and the MINIMUM field in the appropriate SOA. Thus MINIMUM is a lower bound on the TTL field for all RRs in a zone. Note that this use of MINIMUM should occur when the RRs are copied into the response and not when the zone is loaded from a master file or via a zone transfer. The reason for this provison is to allow future dynamic update facilities to change the SOA RR with known semantics.

3.3.14. TXT RDATA format

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```
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
/                TXT-DATA                       /
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

where:

TXT-DATA
One or more <character-string>s.

TXT RRs are used to hold descriptive text. The semantics of the text depends on the domain where it is found.

3.4. Internet specific RRs

3.4.1. A RDATA format

```
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|                ADDRESS                        |
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

where:

ADDRESS A 32 bit Internet address.

Hosts that have multiple Internet addresses will have multiple A records.

A records cause no additional section processing. The RDATA section of an A line in a master file is an Internet address expressed as four decimal numbers separated by dots without any imbedded spaces (e.g., "10.2.0.52" or "192.0.5.6").

3.4.2. WKS RDATA format

```
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|                ADDRESS                        |
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|     PROTOCOL     |                            |
```

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```
+--+--+--+--+--+--+--+--+                    |
|                                |
/                <BIT MAP>                /
/                                /
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

where:

ADDRESS An 32 bit Internet address

PROTOCOL An 8 bit IP protocol number

<BIT MAP> A variable length bit map. The bit map must be a multiple of 8 bits long.

The WKS record is used to describe the well known services supported by a particular protocol on a particular internet address. The PROTOCOL field specifies an IP protocol number, and the bit map has one bit per port of the specified protocol. The first bit corresponds to port 0, the second to port 1, etc. If the bit map does not include a bit for a protocol of interest, that bit is assumed zero. The appropriate values and mnemonics for ports and protocols are specified in [RFC-1010].

For example, if PROTOCOL=TCP (6), the 26th bit corresponds to TCP port 25 (SMTP). If this bit is set, a SMTP server should be listening on TCP port 25; if zero, SMTP service is not supported on the specified address.

The purpose of WKS RRs is to provide availability information for servers for TCP and UDP. If a server supports both TCP and UDP, or has multiple Internet addresses, then multiple WKS RRs are used.

WKS RRs cause no additional section processing.

In master files, both ports and protocols are expressed using mnemonics or decimal numbers.

3.5. IN-ADDR.ARPA domain

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The Internet uses a special domain to support gateway location and Internet address to host mapping. Other classes may employ a similar strategy in other domains. The intent of this domain is to provide a guaranteed method to perform host address to host name mapping, and to facilitate queries to locate all gateways on a particular network in the Internet.

Note that both of these services are similar to functions that could be performed by inverse queries; the difference is that this part of the domain name space is structured according to address, and hence can guarantee that the appropriate data can be located without an exhaustive search of the domain space.

The domain begins at IN-ADDR.ARPA and has a substructure which follows the Internet addressing structure.

Domain names in the IN-ADDR.ARPA domain are defined to have up to four labels in addition to the IN-ADDR.ARPA suffix. Each label represents one octet of an Internet address, and is expressed as a character string for a decimal value in the range 0-255 (with leading zeros omitted except in the case of a zero octet which is represented by a single zero).

Host addresses are represented by domain names that have all four labels specified. Thus data for Internet address 10.2.0.52 is located at domain name 52.0.2.10.IN-ADDR.ARPA. The reversal, though awkward to read, allows zones to be delegated which are exactly one network of address space. For example, 10.IN-ADDR.ARPA can be a zone containing data for the ARPANET, while 26.IN-ADDR.ARPA can be a separate zone for MILNET. Address nodes are used to hold pointers to primary host names in the normal domain space.

Network numbers correspond to some non-terminal nodes at various depths in the IN-ADDR.ARPA domain, since Internet network numbers are either 1, 2, or 3 octets. Network nodes are used to hold pointers to the primary host names of gateways attached to that network. Since a gateway is, by definition, on more than one network, it will typically have two or more network nodes which point at it. Gateways will also have host level pointers at their fully qualified addresses.

Both the gateway pointers at network nodes and the normal host pointers at full address nodes use the PTR RR to point back to the primary domain names of the corresponding hosts.

For example, the IN-ADDR.ARPA domain will contain information about the

ISI gateway between net 10 and 26, an MIT gateway from net 10 to MIT's

net 18, and hosts A.ISI.EDU and MULTICS.MIT.EDU. Assuming that ISI gateway has addresses 10.2.0.22 and 26.0.0.103, and a name MILNET-GW.ISI.EDU, and the MIT gateway has addresses 10.0.0.77 and 18.10.0.4 and a name GW.LCS.MIT.EDU, the domain database would contain:

```
10.IN-ADDR.ARPA.          PTR MILNET-GW.ISI.EDU.
10.IN-ADDR.ARPA.          PTR GW.LCS.MIT.EDU.
18.IN-ADDR.ARPA.          PTR GW.LCS.MIT.EDU.
26.IN-ADDR.ARPA.          PTR MILNET-GW.ISI.EDU.
22.0.2.10.IN-ADDR.ARPA.
 PTR MILNET-GW.ISI.EDU.
103.0.0.26.IN-ADDR.ARPA.   PTR MILNET-GW.ISI.EDU.
77.0.0.10.IN-ADDR.ARPA.    PTR GW.LCS.MIT.EDU.
4.0.10.18.IN-ADDR.ARPA.    PTR GW.LCS.MIT.EDU.
103.0.3.26.IN-ADDR.ARPA.   PTR A.ISI.EDU.
6.0.0.10.IN-ADDR.ARPA.     PTR MULTICS.MIT.EDU.
```

Thus a program which wanted to locate gateways on net 10 would originate a query of the form QTYPE=PTR, QCLASS=IN, QNAME=10.IN-ADDR.ARPA. It would receive two RRs in response:

```
10.IN-ADDR.ARPA.          PTR MILNET-GW.ISI.EDU.
10.IN-ADDR.ARPA.          PTR GW.LCS.MIT.EDU.
```

The program could then originate QTYPE=A, QCLASS=IN queries for MILNET-GW.ISI.EDU. and GW.LCS.MIT.EDU. to discover the Internet addresses of these gateways.

A resolver which wanted to find the host name corresponding to Internet host address 10.0.0.6 would pursue a query of the form QTYPE=PTR, QCLASS=IN, QNAME=6.0.0.10.IN-ADDR.ARPA, and would receive:

```
6.0.0.10.IN-ADDR.ARPA.     PTR MULTICS.MIT.EDU.
```

Several cautions
apply to the use of these services:

- Since the IN-ADDR.ARPA special domain and the normal domain for a particular host or gateway will be in different zones, the possibility exists that that the data may be inconsistent.

- Gateways will often have two names in separate domains, only one of which can be primary.

- Systems that use the domain database to initialize their routing tables must start with enough gateway information to guarantee that they can access the appropriate name server.

- The gateway data only reflects the existence of a gateway in a manner equivalent to the current HOSTS.TXT file. It doesn't replace the dynamic availability information from GGP or EGP.

3.6. Defining new types, classes, and special namespaces

The previously defined types and classes are the ones in use as of the date of this memo. New definitions should be expected. This section makes some recommendations to designers considering additions to the existing facilities. The mailing list NAMEDROPPERS@SRI-NIC.ARPA is the forum where general discussion of design issues takes place.

In general, a new type is appropriate when new information is to be added to the database about an existing object, or we need new data formats for some totally new object. Designers should accept to define types and their RDATA formats that are generally applicable to all classes, and which avoid duplication of information. New classes are appropriate when the DNS is to be used for a new protocol, etc which requires new class-specific data formats, or when a copy of the existing name space is desired, but a separate management domain is necessary.

New types and classes need mnemonics for master files; the format of the master files requires that the mnemonics for type and class be disjoint.

TYPE and CLASS values must be a proper subset of QTYPEs and QCLASSes respectively.

The present system uses multiple RRs to represent multiple values of a type rather than storing multiple values in the RDATA section of a single RR. This is less efficient for most applications, but does keep RRs shorter. The multiple RRs assumption is incorporated in some

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experimental work on dynamic update methods.

The present system attempts to minimize the duplication of data in the database in order to insure consistency. Thus, in order to find the address of the host for a mail exchange, you map the mail domain name to a host name, then the host name to addresses, rather than a direct mapping to host address. This approach is preferred because it avoids the opportunity for inconsistency.

In defining a new type of data, multiple RR types should not be used to create an ordering between entries or express different formats for equivalent bindings, instead this information should be carried in the body
of the RR and a single type used. This policy avoids problems with caching multiple types and defining QTYPEs to match multiple types.

For example, the original form of mail exchange binding used two RR types one to represent a "closer" exchange (MD) and one to represent a "less close" exchange (MF). The difficulty is that the presence of one RR type in a cache doesn't convey any information about the other because the query which acquired the cached information might have used a QTYPE of MF, MD, or MAILA (which matched both). The redesigned

service used a single type (MX) with a "preference" value in the RDATA section which can order different RRs. However, if any MX RRs are found in the cache, then all should be there.

4. MESSAGES

4.1. Format

All communications inside of the domain protocol are carried in a single format called
a message. The top level format of message is divided
into 5 sections (some of which are empty in certain cases) shown below:

```
+---------------------+
|        Header       |
+---------------------+
|       Question      | the question for the name server
+---------------------+
```

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```
|       Answer       | RRs answering the question
+---------------------+
|     Authority      | RRs pointing toward an authority
+---------------------+
|     Additional     | RRs holding additional information
+---------------------+
```

The header section is always present. The header includes fields that specify which of the remaining sections are present, and also specify whether the message is a query or a response, a standard query or some other opcode, etc.

The names of the sections after the header are derived from their use in standard queries. The question section contains fields that describe a question to a name server. These fields are a query type (QTYPE), a query class (QCLASS), and a query domain name (QNAME). The last three sections have the same format: a possibly empty list of concatenated resource records (RRs). The answer section contains RRs that answer the question; the authority section contains RRs that point toward an authoritative name server; the additional records section contains RRs which relate to the query, but are not strictly answers for the question.

4.1.1. Header section format

The header contains the following fields:

```
                                1  1  1  1  1  1
  0  1  2  3  4  5  6  7  8  9  0  1  2  3  4  5
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|                      ID                       |
```

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```
  +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
  |QR|   Opcode  |AA|TC|RD|RA|   Z    |   RCODE   |

 +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
  |                    QDCOUNT                    |
  +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
  |                    ANCOUNT                    |
  +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
  |                    NSCOUNT                    |
  +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
  |                    ARCOUNT                    |
  +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

where:

ID A 16 bit identifier assigned by the program that generates any kind of query. This identifier is copied the corresponding reply and can be used by the requester to match up replies to outstanding queries.

QR A one bit field that specifies whether this message is a query (0), or a response (1).

OPCODE A four bit field that specifies kind of query in this message. This value is set by the originator of a query and copied into the response. The values are:

0 a standard query (QUERY)

1 an inverse query (IQUERY)

2 a server status request (STATUS)

3-15 reserved for future use

AA Authoritative Answer - this bit is valid in responses, and specifies that the responding name server is an authority for the domain name in question section.

Note that the contents of the answer section may have multiple owner names because of aliases. The AA bit

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corresponds to the name which matches the query name, or the first owner name in the answer section.

TC TrunCation - specifies that this message was truncated due to length greater than that permitted on the transmission channel.

RD Recursion Desired - this bit may be set in a query and is copied into the response. If RD is set, it directs the name server to pursue the query recursively. Recursive query support is optional.

RA Recursion Available - this be is set or cleared in a response, and denotes whether recursive query support is available in the name server.

Z Reserved for future use. Must be zero in all queries and responses.

RCODE Response code - this 4 bit field is set as part of responses. The values have the following interpretation:

0 No error condition

1 Format error - The name server was unable to interpret the query.

2 Server failure - The name server was unable to process this query due to a problem with the name server.

3 Name Error - Meaningful only for responses from an authoritative name server, this code signifies that the domain name referenced in the query does not exist.

4 Not Implemented - The name server does not support the requested kind of query.

5 Refused - The name server refuses to perform the specified operation for policy reasons. For example, a name

server may not wish to provide the

information to the particular requester,
or a name server may not wish to perform
a particular operation (e.g., zone

transfer) for particular data.

6-15 Reserved for future use.

QDCOUNT an unsigned 16 bit integer specifying the number of entries in the question section.

ANCOUNT an unsigned 16 bit integer specifying the number of resource records in the answer section.

NSCOUNT an unsigned 16 bit integer specifying the number of name server resource records in the authority records section.

ARCOUNT an unsigned 16 bit integer specifying the number of resource records in the additional records section.

4.1.2.
Question section format

The question section is used to carry the "question" in most queries, i.e., the parameters that define what is being asked. The section contains QDCOUNT (usually 1) entries, each of the following format:

```
                    1  1  1  1  1  1
  0  1  2  3  4  5  6  7  8  9  0  1  2  3  4  5
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|                                               |
/                     QNAME                     /
/                                               /
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|                     QTYPE                     |
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|                     QCLASS                    |
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

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where:

QNAME a domain name represented as a sequence of labels, where each label consists of a length octet followed by that

number of octets. The domain name terminates with the zero length octet for the null label of the root. Note that this field may be an odd number of octets; no padding is used.

QTYPE a two octet code which specifies the type of the query. The values for this field include all codes valid for a TYPE field, together with some more general codes which can match more than one type of RR.

QCLASS a two octet code that specifies the class of the query. For example, the QCLASS field is IN for the Internet.

4.1.3. Resource record format

The answer, authority, and additional sections all share the same format: a variable number of resource records, where the number of records is specified in the corresponding count field in the header.
Each resource record has the following format:

```
                                1  1  1  1  1  1
  0  1  2  3  4  5  6  7  8  9  0  1  2  3  4  5
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|                                               |
/                                               /
/                      NAME                     /
|                                               |
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|                      TYPE                     |
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|                     CLASS                     |
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|                      TTL                      |
|                                               |
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

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```
|                RDLENGTH                |
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--|
/
          RDATA                   /
/                                 /
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

where:

NAME a domain name to which this resource record pertains.

TYPE two octets containing one of the RR type codes. This field specifies the meaning of the data in the RDATA field.

CLASS two octets which specify the class of the data in the RDATA field.

TTL a 32 bit unsigned integer that specifies the time interval (in seconds) that the resource record may be cached before it should be discarded. Zero values are interpreted to mean that the RR can only be used for the transaction in progress, and should not be cached.

RDLENGTH
an unsigned 16 bit integer that specifies the length in octets of the RDATA field.

RDATA a variable length string of octets that describes the resource. The format of this information varies according to the TYPE and CLASS of the resource record. For example, the if the TYPE is A and the CLASS is IN, the RDATA field is a 4 octet ARPA Internet address.

4.1.4. Message compression

In order to reduce the size of messages, the domain system utilizes a compression scheme which eliminates the repetition of domain names in a message. In this scheme, an entire domain name or a list of labels at

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the end of a domain name is replaced with a pointer to a prior occurance of the same name.

The pointer takes the form of a two octet sequence:

```
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
| 1  1|                OFFSET                   |
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

The first two bits are ones. This allows a pointer to be distinguished from a label, since the label must begin with two zero bits because labels are restricted to 63 octets or less. (The 10 and 01 combinations are reserved for future use.) The OFFSET field specifies an offset from the start of the message (i.e., the first octet of the ID field in the domain header). A zero offset specifies the first byte of the ID field, etc.

The compression scheme allows a domain name in a message to be represented as either:

- a sequence of labels ending in a zero octet

- a pointer

- a sequence of labels ending with a pointer

Pointers can only be used for occurances of a domain name where the format is not class specific. If this were not the case, a name server or resolver would be required to know the format of all RRs it handled. As yet, there are no such cases, but they may occur in future RDATA formats.

If a domain name is contained in a part of the message subject to a length field (such as the RDATA section of an RR), and compression is

used, the length of the compressed name is used in the length calculation, rather than the length of the expanded name.

Programs are free to avoid using pointers in messages they generate,

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although this will reduce datagram capacity, and may cause truncation. However all programs are required to understand arriving messages that contain pointers.

For example, a datagram might need to use the domain names F.ISI.ARPA, FOO.F.ISI.ARPA, ARPA, and the root. Ignoring the other fields of the message, these domain names might be represented as:

```
     +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
  20 |          1          |          F          |
     +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
  22 |          3          |          I          |
     +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
  24 |          S          |          I          |
     +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
  26 |          4          |          A          |
     +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
  28 |          R          |          P          |
     +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
  30 |          A          |          0          |
     +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+

     +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
  40 |          3          |          F          |
     +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
  42 |          O          |          O          |
     +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
  44 | 1  1|               20                    |
     +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+

     +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
  64 | 1  1|
  26                     |
     +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+

     +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
  92 |          0          |                    |
     +--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
```

The domain name for F.ISI.ARPA is shown at offset 20. The domain name FOO.F.ISI.ARPA is shown at offset 40; this definition uses a pointer to concatenate a label for FOO to the previously defined F.ISI.ARPA. The domain name ARPA is defined at offset 64 using a pointer to the ARPA component of the name F.ISI.ARPA at 20; note that this pointer relies on ARPA being the last label in the string at 20. The root domain name is

defined by a single octet of zeros at 92; the root domain name has no labels.

4.2. Transport

The DNS assumes that messages will be transmitted as datagrams or in a
byte stream carried by a virtual circuit. While virtual circuits can be used for any DNS activity, datagrams are preferred for queries due to their lower overhead and better performance. Zone refresh activities must use virtual circuits because of the need for reliable transfer.

The Internet supports name server access using TCP [RFC-793] on server port 53 (decimal) as well as datagram access using UDP [RFC-768] on UDP port 53 (decimal).

4.2.1. UDP usage

Messages sent using UDP user server port 53 (decimal).

Messages carried by UDP are restricted to 512 bytes (not counting the IP or UDP headers). Longer messages are truncated and the TC bit is set in the header.

UDP is not acceptable for zone transfers, but is the recommended method for standard queries in the Internet. Queries sent using UDP may be lost, and hence a retransmission strategy is required. Queries or their responses may be reordered by the network, or by processing in name servers, so resolvers should not
depend on them being returned in order.

The optimal UDP retransmission policy will vary with performance of the Internet and the needs of the client, but the following are recommended:

- The client should try other servers and server addresses before repeating a query to a specific address of a server.

- The retransmission interval should be based on prior statistics if possible. Too aggressive retransmission can easily slow responses for the community at large. Depending on how well connected the client is to its expected servers, the minimum retransmission interval should be 2-5 seconds.

More suggestions on server selection and retransmission policy can be found in the resolver section of this memo.

4.2.2. TCP usage

Messages sent over TCP connections use server port 53 (decimal). The message is prefixed with a two byte length field which gives the message

length, excluding the two byte length field. This length field allows the low-level processing to assemble a complete message before beginning to parse it.

Several connection management policies are recommended:

- The server should not block other activities waiting for TCP data.

- The server should support multiple connections.

- The server should assume that the client will initiate connection closing, and should delay closing its end of the connection until all outstanding client requests have been satisfied.

- If the server needs to close a dormant connection to reclaim resources, it should wait until the connection has been idle for a period on the order of two minutes. In particular, the server should allow the SOA and AXFR request sequence (which begins a refresh operation) to be made on a single connection. Since the server would be unable to answer queries anyway, a unilateral close or reset may be used instead of a graceful close.

5. MASTER FILES

Master files are text files that contain RRs in text form. Since the contents of a zone can be expressed in the form of a list of RRs a master file is most often used to define a zone, though it can be used to list a cache's contents. Hence, this section first discusses the

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format of RRs in a master file, and then the special considerations when a master file is used to create a zone in some name server.

5.1. Format

The format of these files is a sequence of entries. Entries are predominantly line-oriented, though parentheses can be used to continue a list of items across a line boundary, and text literals can contain CRLF within the text. Any combination of tabs and spaces act as a delimiter between the separate items that make up an entry. The end of any line in the master file can end with a comment. The comment starts with a ";" (semicolon).

The following entries are defined:

```
<blank>[<comment>]
```



```
$ORIGIN <domain-name> [<comment>]

$INCLUDE <file-name> [<domain-name>] [<comment>]

<domain-name><rr> [<comment>]

<blank><rr> [<comment>]
```

Blank lines, with or without comments, are allowed anywhere in the file.

Two control entries are defined: $ORIGIN and $INCLUDE. $ORIGIN is followed by a domain name, and resets the current origin for relative domain names to the stated name. $INCLUDE inserts the named file into the current file, and may optionally specify a domain name that sets the relative domain name origin for the included file. $INCLUDE may also have a comment. Note that a $INCLUDE entry never changes the relative origin of the parent file, regardless of changes to the relative origin made within the included file.

The last two forms represent RRs. If an entry for an RR begins with a blank, then the RR is assumed to be owned by the last stated owner. If

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an RR entry begins with a <domain-name>, then the owner name is reset.

<rr> contents take one of the following forms:

[<TTL>] [<class>] <type> <RDATA>

[<class>] [<TTL>] <type> <RDATA>

The RR begins with optional TTL and class fields, followed by a type and RDATA field appropriate to the type and class. Class and type use the standard mnemonics, TTL is a decimal integer. Omitted class and TTL values are default to the last explicitly stated values. Since type and class mnemonics are disjoint, the parse is unique. (Note that this order is different from the order used in examples and the order used in the actual RRs; the given order allows easier parsing and defaulting.)

<domain-name>s make up a large share of the data in the master file. The labels in the domain name are expressed as character strings and separated by dots. Quoting conventions allow arbitrary characters to be stored
in domain names. Domain names that end in a dot are called absolute, and are taken as complete. Domain names which do not end in a dot are called relative; the actual domain name is the concatenation of the relative part with an origin specified in a $ORIGIN, $INCLUDE, or as an argument to the master file loading routine. A relative name is an error when no origin is available.

<character-string> is expressed in one or two ways: as a contiguous set of characters without interior spaces, or as a string beginning with a " and ending with a ". Inside a " delimited string any character can occur, except for a " itself, which must be quoted using \ (back slash).

Because these files are text files several special encodings are necessary to allow arbitrary data to be loaded. In particular:

of the root.

@

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A free standing @ is used to denote the current origin.

\X where X is any character other than a digit (0-9), is used to quote that character so that its special meaning does not apply. For example, "\." can be used to place a dot character in a label.

\DDD where each D is a digit is the octet corresponding to the decimal number described by DDD. The resulting octet is assumed to be text and is not checked for special meaning.

( ) Parentheses are used to group data that crosses a line boundary. In effect, line terminations are not recognized within parentheses.

; Semicolon is used to start a comment; the remainder of the line is ignored.

5.2. Use of master files to define zones

When a master file is used to load a zone, the operation should be suppressed if any errors are encountered in the master file. The rationale for this is that a single error can have widespread consequences. For example, suppose that the RRs defining a delegation have syntax errors; then the server will return authoritative name errors for all names in the subzone (except in the case where the subzone is also present on the server).

Several other validity checks that should be performed in addition to insuring that the file is syntactically correct:

1. All RRs in the file should have the same class.

2. Exactly one SOA RR should be present at the top of the zone.

3. If delegations are present and glue information is required, it should be present.

4. Information present outside of the authoritative nodes in the

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zone should be glue information, rather than the result of an origin or similar error.

5.3. Master file example

The following is an example file which might be used to define the ISI.EDU zone.and is loaded with an origin of ISI.EDU:

```
@   IN  SOA     VENERA      Action\.domains (
                        20     ; SERIAL
                        7200   ; REFRESH
                        600    ; RETRY
                        3600000; EXPIRE
                        60)    ; MINIMUM

      NS      A.ISI.EDU.
      NS      VENERA
      NS      VAXA
      MX      10      VENERA
      MX      20      VAXA

A       A       26.3.0.103

VENERA  A       10.1.0.52
      A       128.9.0.32

VAXA    A       10.2.0.27
      A       128.9.0.33


$INCLUDE <SUBSYS>ISI-MAILBOXES.TXT
```

Where the file <SUBSYS>ISI-MAILBOXES.TXT is:

```
  MOE     MB      A.ISI.EDU.
  LARRY   MB      A.ISI.EDU.
  CURLEY  MB      A.ISI.EDU.
  STOOGES MG      MOE
          MG      LARRY
          MG      CURLEY
```

Note the use of the \ character in the SOA RR to specify the responsible person mailbox "Action.domains@E.ISI.EDU".

6. NAME SERVER IMPLEMENTATION

6.1. Architecture

The optimal structure for the name server will depend on the host operating system and whether the name server is integrated with resolver operations, either by supporting recursive service, or by sharing its database with a resolver. This section discusses implementation considerations for a name server which shares a database with a resolver, but most of these concerns are present in any name server.

6.1.1. Control

A name server must employ multiple concurrent activities, whether they are implemented as separate tasks in the host's OS or multiplexing inside a single name server program. It is simply not acceptable for a name server to block the service of UDP requests while it waits for TCP data for refreshing
or query activities. Similarly, a name server
should not attempt to provide recursive service without processing such requests in parallel, though it may choose to serialize requests from a single client, or to regard identical requests from the same client as duplicates. A name server should not substantially delay requests while it reloads a zone from master files or while it incorporates a newly refreshed zone into its database.

6.1.2. Database

While name server implementations are free to use any internal data structures they choose, the suggested structure consists of three major parts:

- A "catalog" data structure which lists the zones available to this server, and a "pointer" to the zone data structure. The main purpose of this structure is to find the nearest ancestor zone, if any, for arriving standard queries.

- Separate data structures for each of the zones held by the name server.

- A data structure for cached data. (or perhaps separate caches for different classes)

All of these data structures can be implemented an identical tree structure format, with different data chained off the nodes in different parts: in the catalog the data is pointers to zones, while in the zone and cache data structures, the data will be RRs. In designing the tree framework the designer should recognize that query processing will need to traverse the tree using case-insensitive label comparisons; and that

in real data, a few nodes have a very high branching factor (100-1000 or more), but the vast majority have a very low branching factor (0-1).

One way to solve the case problem is to store the labels for each node in two pieces: a standardized-case representation of the label where all ASCII characters are in a single case, together with a bit mask that denotes which characters are actually of a different case. The branching factor diversity can be handled using a simple linked list for a node until the branching factor exceeds some threshold, and transitioning to a hash structure after the threshold is exceeded. In any case, hash structures used to store tree sections must insure that hash functions and procedures preserve the casing conventions of the DNS.

The use of separate structures for the different parts of the database is motivated by several factors:

- The catalog structure can be an almost static structure that need change only when the system administrator changes the zones supported by the server. This structure can also be used to store parameters used to control refreshing activities.

- The individual data structures for zones allow a zone to be replaced simply by changing a pointer in the catalog. Zone refresh operations can build a new structure and, when complete, splice it into the database

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via a simple pointer
replacement. It is very important that when a zone is refreshed, queries should not use old and new data simultaneously.

- With the proper search procedures, authoritative data in zones will always "hide", and hence take precedence over, cached data.

- Errors in zone definitions that cause overlapping zones, etc., may cause erroneous responses to queries, but problem determination is simplified, and the contents of one "bad" zone can't corrupt another.

- Since the cache is most frequently updated, it is most vulnerable to corruption during system restarts. It can also become full of expired RR data. In either case, it can easily be discarded without disturbing zone data.

A major aspect of database design is selecting a structure which allows the name server to deal with crashes of the name server's host. State information which a name server should save across system crashes

includes the catalog structure (including the state of refreshing for each zone) and the zone data itself.

6.1.3. Time

Both the TTL data for RRs and the timing data for refreshing activities depends on 32 bit timers in units of seconds. Inside the database, refresh timers and TTLs for cached data conceptually "count down", while data in the zone stays with constant TTLs.

A recommended implementation strategy is to store time in two ways: as a relative increment and as an absolute time. One way to do this is to use positive 32 bit numbers for one type and negative numbers for the other. The RRs in zones use relative times; the refresh timers and cache data use absolute times. Absolute numbers are taken with respect to some known origin and converted to relative values when placed in the response to a query. When an absolute TTL is negative after

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conversion
to relative, then the data is expired and should be ignored.

6.2. Standard query processing

The major algorithm for standard query processing is presented in [RFC-1034].

When processing queries with QCLASS=*, or some other QCLASS which matches multiple classes, the response should never be authoritative unless the server can guarantee that the response covers all classes.

When composing a response, RRs which are to be inserted in the additional section, but duplicate RRs in the answer or authority sections, may be omitted from the additional section.

When a response is so long that truncation is required, the truncation should start at the end of the response and work forward in the datagram. Thus if there is any data for the authority section, the answer section is guaranteed to be unique.

The MINIMUM value in the SOA should be used to set a floor on the TTL of data distributed from a zone. This floor function should be done when the data is copied into a response.
This will allow future dynamic
update protocols to change the SOA MINIMUM field without ambiguous semantics.

6.3. Zone refresh and reload processing

In spite of a server's best efforts, it may be unable to load zone data from a master file due to syntax errors, etc., or be unable to refresh a zone within the its expiration parameter. In this case, the name server

should answer queries as if it were not supposed to possess the zone.

If a master is sending a zone out via AXFR, and a new version is created during the transfer, the master should continue to send the old version if possible. In any case, it should never send part of one version and part of another. If completion is not possible, the master should reset the connection on which the zone transfer is taking place.

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6.4. Inverse queries (Optional)

Inverse queries are an optional part of the DNS. Name servers are not required to support any form of inverse queries. If a name server receives an inverse query that it does not support, it returns an error response with the "Not Implemented" error set in the header. While inverse query support is optional, all name servers must be at least able to return the error response.

6.4.1. The contents of inverse queries and responses Inverse queries reverse the mappings performed by standard query operations; while a standard query maps a domain name to a resource, an inverse query maps a resource to a domain name. For example, a standard query might bind a domain name to a host address; the corresponding inverse query binds the host address to a domain name.

Inverse queries take the form of a single RR in the answer section of the message, with an empty question section. The owner name of the query RR and its TTL are not significant. The response carries questions in the question section which identify all names possessing the query RR WHICH THE NAME SERVER KNOWS. Since no name server knows about all of the domain name space, the response can never be assumed to be complete. Thus inverse queries are primarily useful for database management and debugging activities. Inverse queries are NOT an acceptable method of mapping host addresses to host names; use the IN-ADDR.ARPA domain instead.

Where possible, name servers should provide case-insensitive comparisons for inverse queries. Thus an inverse query asking for an MX RR of "Venera.isi.edu" should get the same response as a query for "VENERA.ISI.EDU"; an inverse query for HINFO RR "IBM-PC UNIX" should produce the same result as an inverse query for "IBM-pc unix". However, this cannot be guaranteed because name servers may possess RRs that contain character strings but the name server does not know that the data is character.

When a name server processes an inverse query, it either returns:

1. zero, one, or multiple domain names for the specified resource as QNAMEs in the question section

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2. an error code indicating that the name server doesn't support inverse mapping of the specified resource type.

When the response to an inverse query contains one or more QNAMEs, the owner name and TTL of the RR in the answer section which defines the inverse query is modified to exactly match an RR found at the first QNAME.

RRs returned in the inverse queries cannot be cached using the same mechanism as is used for the replies to standard queries. One reason for this is that a name might have multiple RRs of the same type, and only one would appear. For example, an inverse query for a single address of a multiply homed host might create the impression that only one address existed.

6.4.2. Inverse query and response example The overall structure of an inverse query for retrieving the domain name that corresponds to Internet address 10.1.0.52 is shown below:

```
                +-----------------------------------------+
     Header     |        OPCODE=IQUERY, ID=997            |
                +-----------------------------------------+
    Question    |              <empty>                    |
                +-----------------------------------------+
     Answer     |      <anyname> A IN 10.1.0.52           |
                +-----------------------------------------+
   Authority    |              <empty>                    |
                +-----------------------------------------+
  Additional    |              <empty>                    |
                +-----------------------------------------+
```

This query asks for a question whose answer is the Internet style address 10.1.0.52. Since the owner name is not known, any domain name can be used as a placeholder (and is ignored). A single octet of zero, signifying the root, is usually used because it minimizes the length of the message. The TTL of the RR is not significant. The response to this query might be:

```
                +-----------------------------------------+
        Header  |        OPCODE=RESPONSE, ID=997          |
                +-----------------------------------------+
       Question |QTYPE=A, QCLASS=IN, QNAME=VENERA.ISI.EDU |
                +-----------------------------------------+
        Answer  |  VENERA.ISI.EDU  A IN 10.1.0.52         |
                +-----------------------------------------+
     Authority  |                <empty>                  |
                +-----------------------------------------+
     Additional |                <empty>                  |
                +-----------------------------------------+
```

Note that the QTYPE in a response to an inverse query is the same as the TYPE field in the answer section of the inverse query. Responses to inverse queries may contain multiple questions when the inverse is not unique. If the question section in the response is not empty, then the RR in the answer section is modified to correspond to be an exact copy of an RR at the first QNAME.

6.4.3. Inverse query processing

Name servers that support inverse queries can support these operations through exhaustive searches of their databases, but this becomes impractical as the size of the database increases. An alternative approach is to invert the database according to the search key.

For name servers that support multiple zones and a large amount of data, the recommended approach is separate inversions for each zone. When a particular zone is changed during a refresh, only its inversions need to be redone.

Support for transfer of this type of inversion may be included in future versions of the domain system, but is not supported in this version.

6.5. Completion queries and responses

The optional completion services described in RFC-882 and RFC-883 have
been deleted. Redesigned services may become available in the future.

7. RESOLVER IMPLEMENTATION

The top levels of the recommended resolver algorithm are discussed in
[RFC-1034]. This section discusses implementation details assuming the
database structure suggested in the name server implementation section
of this memo.

7.1. Transforming a user request into a query

The first step a resolver takes is to transform the client's request,
stated in a format suitable to the local OS,
into a search specification
for RRs at a specific name which match a specific QTYPE and QCLASS.
Where possible, the QTYPE and QCLASS should correspond to a single type
and a single class, because this makes the use of cached data much
simpler. The reason for this is that the presence of data of one type
in a cache doesn't confirm the existence or non-existence of data of
other types, hence the only way to be sure is to consult an
authoritative source. If QCLASS=* is used, then authoritative answers
won't be available.

Since a resolver must be able to multiplex multiple requests if it is to
perform its function efficiently, each pending request is usually
represented in some block of state information. This state block will
typically contain:

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- A timestamp indicating the time the request began.
  The timestamp is used to decide whether RRs in the database can be used or are out of date. This timestamp uses the absolute time format previously discussed for RR storage in zones and caches. Note that when an RRs TTL indicates a relative time, the RR must be timely, since it is part of a zone. When the RR has an absolute time, it is part of a cache, and the TTL of the RR is compared against the timestamp for the start of the request.

  Note that using the timestamp is superior to using a current time, since it allows RRs with TTLs of zero to be entered in the cache in the usual manner, but still used by the current request, even after intervals of many seconds due to system load, query retransmission timeouts, etc.

- Some sort of parameters to limit the amount of work which will be performed for this request.

  The amount of work which a resolver will do in response to a client request must be limited to guard against errors in the database, such as circular CNAME references, and operational problems, such as network partition which prevents the

resolver from accessing the name servers it needs. While local limits on the number of times a resolver will retransmit a particular query to a particular name server address are essential, the resolver should have a global per-request counter to limit work on a single request. The counter should be set to some initial value and decremented whenever the resolver performs any action (retransmission timeout, retransmission, etc.) If the counter passes zero, the request is terminated with a temporary error.

Note that if the resolver structure allows one request to start others in parallel, such as when the need to access a name server for one request causes a parallel resolve for the name server's addresses, the spawned request should be started

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with a lower counter. This prevents circular references in the database from starting a chain reaction of resolver activity.

- The SLIST data structure discussed in [RFC-1034].

  This structure keeps track of the state of a request if it must wait for answers from foreign name servers.

7.2. Sending the queries

As described in [RFC-1034], the basic task of the resolver is to formulate a query which will answer the client's request and direct that query to name servers which can provide the information. The resolver will usually only have very strong hints about which servers to ask, in the form of NS RRs, and may have to revise the query, in response to CNAMEs, or revise the set of name servers the resolver is asking, in response to delegation responses which point the resolver to name servers closer to the desired information. In addition to the information requested by the client, the resolver may have to call upon its own services to determine the address of name servers it wishes to contact.

In any case, the model used in this memo assumes that the resolver is multiplexing attention between multiple requests, some from the client, and some internally generated. Each request is represented by some state information, and the desired behavior is that the resolver transmit queries to name servers in a way that maximizes the probability that the request is answered, minimizes the time that the request takes, and avoids excessive transmissions. The key algorithm uses the state information of the request to select the next name server address to query, and also computes a timeout which will cause the next action should a response not arrive. The next action will usually be a transmission to some other server, but may be a temporary error to the

client.

The resolver always starts with a list of server names to query (SLIST). This list

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will be all NS RRs which correspond to the nearest ancestor zone that the resolver knows about. To avoid startup problems, the resolver should have a set of default servers which it will ask should it have no current NS RRs which are appropriate. The resolver then adds to SLIST all of the known addresses for the name servers, and may start parallel requests to acquire the addresses of the servers when the resolver has the name, but no addresses, for the name servers.

To complete initialization of SLIST, the resolver attaches whatever history information it has to the each address in SLIST. This will usually consist of some sort of weighted averages for the response time of the address, and the batting average of the address (i.e., how often the address responded at all to the request). Note that this information should be kept on a per address basis, rather than on a per name server basis, because the response time and batting average of a particular server may vary considerably from address to address. Note also that this information is actually specific to a resolver address / server address pair, so a resolver with multiple addresses may wish to keep separate histories for each of its addresses. Part of this step must deal with addresses which have no such history; in this case an expected round trip time of 5-10 seconds should be the worst case, with lower estimates for the same local network, etc.

Note that whenever a delegation is followed, the resolver algorithm reinitializes SLIST.

The information establishes a partial ranking of the available name server addresses. Each time an address is chosen and the state should be altered to prevent its selection again until all other addresses have been tried. The timeout for each transmission should be 50-100% greater than the average predicted value to allow for variance in response.

Some fine points:

- The resolver may encounter a situation where no addresses are available for any of the name servers named in SLIST, and where the servers in the list are precisely those which would normally be used to look up their own addresses. This situation typically occurs when the glue address RRs have a smaller TTL than the NS RRs marking delegation, or when the resolver caches the result of a NS search. The resolver should detect this condition and restart the search at the next ancestor zone, or alternatively at the root.

- If a resolver gets a server error or other bizarre response from a name server, it should remove it from SLIST, and may wish to schedule an immediate transmission to the next candidate server address.

7.3. Processing responses

The first step in processing arriving response datagrams is to parse the response. This procedure should include:

- Check the header for reasonableness. Discard datagrams which are queries when responses are expected.

- Parse the sections of the message, and insure that all RRs are correctly formatted.

- As an optional step, check the TTLs of arriving data looking for RRs with excessively long TTLs. If a RR has an excessively long TTL, say greater than 1 week, either discard the whole response, or limit all TTLs in the response to 1 week.

The next step is to match the response to a current resolver request. The recommended strategy is to do a preliminary matching using the ID field in the domain header, and then to verify that the question section corresponds to the information currently desired. This requires that the transmission algorithm devote several bits of the domain ID field to a request identifier of some sort. This step has several fine points:

- Some name servers send their responses from different addresses than the one used to receive the query. That is, a resolver cannot rely that a response will come from the same address which it sent the corresponding query to. This name server bug is typically encountered in UNIX systems.

- If the resolver retransmits a particular request to a name server it should be able to use a response from any of the transmissions. However, if it is using the response to sample the round trip time to access the name server, it must be able

to determine which transmission matches the response (and keep transmission times for each outgoing message), or only calculate round trip times based on initial transmissions.

- A name server will occasionally not have a current copy of a zone which it should have according to some NS RRs. The resolver should simply remove the name server from the current SLIST, and continue.

7.4. Using the cache

In general, we expect a resolver to cache all data which it receives in responses since it may be useful in answering future client requests. However, there are several types of data which should not be cached:

- When several RRs of the same type are available for a particular owner name, the resolver should either cache them all or none at all. When a response is truncated, and a resolver doesn't know whether it has a complete set, it should not cache a possibly partial set of RRs.

- Cached data should never be used in preference to authoritative data, so if caching would cause this to happen the data should not be cached.

- The results of an inverse query should not be cached.

- The results of standard queries where the QNAME contains "*" labels if the data might be used to construct wildcards. The reason is that the cache does not necessarily contain existing

RRs or zone boundary information which is necessary to restrict the application of the wildcard RRs.

- RR data in responses of dubious reliability. When a resolver receives unsolicited responses or RR data other than that requested, it should discard it without caching it. The basic implication is that all sanity checks on a packet should be performed before any of it is cached.

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In a similar vein, when a resolver has a set of RRs for some name in a response, and wants to cache the RRs, it should check its cache for already existing RRs. Depending on the circumstances, either the data in the response or the cache is preferred, but the two should never be combined. If the data in the response is from authoritative data in the answer section, it is always preferred.

8. MAIL SUPPORT

The domain system defines a standard for mapping mailboxes into domain names, and two methods for using the mailbox information to derive mail routing information. The first method is called mail exchange binding and the other method is mailbox binding. The mailbox encoding standard and mail exchange binding are part of the DNS official protocol, and are the recommended method for mail routing in the Internet. Mailbox binding is an experimental feature which is still under development and subject to change.

The mailbox encoding standard assumes a mailbox name of the form "<local-part>@<mail-domain>". While the syntax allowed in each of these sections varies substantially between the various mail internets, the preferred syntax for the ARPA Internet is given in [RFC-822].

The DNS encodes the <local-part> as a single label, and encodes the <mail-domain> as a domain name. The single label from the <local-part> is prefaced to the domain name from <mail-domain> to form the domain name corresponding to the mailbox. Thus the mailbox HOSTMASTER@SRI-NIC.ARPA is mapped into the domain name HOSTMASTER.SRI-NIC.ARPA. If the <local-part> contains dots or other special characters, its representation in a master file will require the use of backslash quoting to ensure that the domain name is properly encoded. For example, the mailbox Action.domains@ISI.EDU would be represented as Action\.domains.ISI.EDU.

8.1. Mail exchange binding

Mail exchange binding uses the <mail-domain> part of a mailbox

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specification to determine where mail should be sent. The <local-part> is not even consulted. [RFC-974] specifies this method in detail, and should be consulted before attempting to use mail exchange support.

One of the advantages of this method is that it decouples mail destination naming from the hosts used to support mail service, at the cost of another layer of indirection in the lookup function. However, the addition layer should eliminate the need for complicated "%", "!", etc encodings in
<local-part>.

The essence of the method is that the <mail-domain> is used as a domain name to locate type MX RRs which list hosts willing to accept mail for <mail-domain>, together with preference values which rank the hosts according to an order specified by the administrators for <mail-domain>.

In this memo, the <mail-domain> ISI.EDU is used in examples, together with the hosts VENERA.ISI.EDU and VAXA.ISI.EDU as mail exchanges for ISI.EDU. If a mailer had a message for Mockapetris@ISI.EDU, it would route it by looking up MX RRs for ISI.EDU. The MX RRs at ISI.EDU name VENERA.ISI.EDU and VAXA.ISI.EDU, and type A queries can find the host addresses.

8.2. Mailbox binding (Experimental)

In mailbox binding, the mailer uses the entire mail destination specification to construct a domain name. The encoded domain name for the mailbox is used as the QNAME field in a QTYPE=MAILB query.

Several outcomes are possible for this query:

1. The query can return a name error indicating that the mailbox does not exist as a domain name.

   In the long term, this would indicate that the specified mailbox doesn't exist. However, until the use of mailbox binding is universal, this error condition should be interpreted to mean that the organization identified by the global part does not support mailbox binding. The appropriate procedure is to revert to exchange binding at

this point.

2. The query can return a Mail Rename (MR) RR.

   The MR RR carries new mailbox specification in its RDATA field. The mailer should replace the old mailbox with the new one and retry the operation.

3. The query can return a MB RR.

   The MB RR carries a domain name for a host in its RDATA field. The mailer should deliver the message to that host via whatever protocol is applicable, e.g., b,SMTP.

4. The query can return one or more Mail Group (MG) RRs.

   This condition means that the mailbox was actually a mailing list or mail group, rather than a single mailbox. Each MG RR has a RDATA field that identifies a mailbox that is a member of the group. The mailer should deliver a copy of the message to each member.

5. The query can return a MB RR as well as one or more MG RRs.

   This condition means the the mailbox was actually a mailing list. The mailer can either deliver the message to the host specified by the MB RR, which will in turn do the delivery to all members, or the mailer can use the MG RRs to do the expansion itself.

In any of these cases, the response may include a Mail Information (MINFO) RR. This RR is usually associated with a mail group, but is legal with a MB. The MINFO RR identifies two mailboxes. One of these identifies a responsible person for the original mailbox name. This mailbox should be used for requests to be added to a mail group, etc. The second mailbox name in the MINFO RR identifies a mailbox that should receive error messages for mail failures. This is particularly appropriate for mailing lists when errors in member names should be reported to a person other than the one who sends a message to the list.

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New fields may be added to this RR in the future.

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No license file was found, but licenses were detected in source scan.

INFORMATIONAL
Errata

Network Working Group J. Klensin
Request for Comments: 3696 February 2004
Category: Informational

Application Techniques for Checking and Transformation of Names

Status of this Memo

This memo provides information for the Internet community. It does not specify an Internet standard of any kind. Distribution of this memo is unlimited.

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Abstract

Many Internet applications have been designed to deduce top-level domains (or other domain name labels) from partial information. The introduction of new top-level domains, especially non-country-code ones, has exposed flaws in some of the methods used by these applications. These flaws make it more difficult, or impossible, for users of the applications to access the full Internet. This memo discusses some of the techniques that have been used and gives some guidance for minimizing their negative impact as the domain name environment evolves. This document draws summaries of the applicable rules together in one place and supplies references to the actual standards.

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1. Introduction

Designers of user interfaces to Internet applications have often found it useful to examine user-provided values for validity before passing them to the Internet tools themselves. This type of test, most commonly involving syntax checks or application of other rules to domain names, email addresses, or "web addresses" (URLs or, occasionally, extended URI forms (see Section 4)) may enable better-quality diagnostics for the user than might be available from the protocol itself. Local validity tests on values are also thought to improve the efficiency of back-office processing programs and to reduce the load on the protocols themselves. Certainly, they are consistent with the well-established principle that it is better to detect errors as early as possible.

The tests must, however, be made correctly or at least safely. If criteria are applied that do not match the protocols, users will be inconvenienced, addresses and sites will effectively become inaccessible to some groups, and business and communications opportunities will be lost. Experience in recent years indicates that syntax tests are often performed incorrectly and that tests for top-level domain names are applied using obsolete lists and conventions. We assume that most of these incorrect tests are the result of the inability to conveniently locate exact definitions for the criteria to be applied. This document draws summaries of the applicable rules together in one place and supplies references to the

actual standards. It does not add anything to those standards; it merely draws the information together into a form that may be more accessible.

Many experts on Internet protocols believe that tests and rules of these sorts should be avoided in applications and that the tests in the protocols and back-office systems should be relied on instead. Certainly implementations of the protocols cannot assume that the data passed to them will be valid. Unless the standards specify particular behavior, this document takes no position on whether or

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not the testing is desirable. It only identifies the correct tests to be made if tests are to be applied.

The sections that follow discuss domain names, email addresses, and URLs.

2. Restrictions on domain (DNS) names

The authoritative definitions of the format and syntax of domain names appear in RFCs 1035 [RFC1035], 1123 [RFC1123], and 2181 [RFC2181].

Any characters, or combination of bits (as octets), are permitted in DNS names. However, there is a preferred form that is required by most applications. This preferred form has been the only one permitted in the names of top-level domains, or TLDs. In general, it is also the only form permitted in most second-level names registered in TLDs, although some names that are normally not seen by users obey other rules. It derives from the original ARPANET rules for the naming of hosts (i.e., the "hostname" rule) and is perhaps better described as the "LDH rule", after the characters that it permits. The LDH rule, as updated, provides that the labels (words or strings separated by periods) that make up a domain name must consist of only the ASCII [ASCII] alphabetic and numeric characters, plus the hyphen. No other symbols or punctuation characters are permitted, nor is blank space. If the hyphen is used, it is not permitted to appear at either the beginning or end of a label. There is an additional rule that essentially requires that top-level domain names not be all-numeric.

When it is necessary to express labels with non-character octets, or to embed periods within labels, there is a mechanism for keying them in that utilizes an escape sequence. RFC 1035 [RFC1035] should be consulted if that mechanism is needed (most common applications, including email and the Web, will generally not permit those escaped strings). A special encoding is now available for non-ASCII characters, see the brief discussion in Section 5.

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Most internet applications that reference other hosts or systems
assume they will be supplied with "fully-qualified" domain names,
i.e., ones that include all of the labels leading to the root,
including the TLD name. Those fully-qualified domain names are then
passed to either the domain name resolution protocol itself or to the
remote systems. Consequently, purported DNS names to be used in
applications and to locate resources generally must contain at least
one period (".") character. Those that do not are either invalid or
require the application to supply additional information. Of course,
this principle does not apply when the purpose of the application is
to
process or query TLD names themselves. The DNS specification also
permits a trailing period to be used to denote the root, e.g.,
"a.b.c" and "a.b.c." are equivalent, but the latter is more explicit
and is required to be accepted by applications. This convention is
especially important when a TLD name is being referred to directly.
For example, while ".COM" has become the popular terminology for
referring to that top-level domain, "COM." would be strictly and
technically correct in talking about the DNS, since it shows that
"COM" is a top-level domain name.

There is a long history of applications moving beyond the "one or
more periods" test in an attempt to verify that a valid TLD name is
actually present. They have done this either by applying some
heuristics to the form of the name or by consulting a local list of
valid names. The historical heuristics are no longer effective. If
one is to keep a local list, much more effort must be devoted
to
keeping it up-to-date than was the case several years ago.

The heuristics were based on the observation that, since the DNS was
first deployed, all top-level domain names were two, three, or four
characters in length. All two-character names were associated with
"country code" domains, with the specific labels (with a few early
exceptions) drawn from the ISO list of codes for countries and
similar entities [IS3166]. The three-letter names were "generic"
TLDs, whose function was not country-specific, and there was exactly
one four-letter TLD, the infrastructure domain "ARPA." [RFC1591].
However, these length-dependent rules were conventions, rather than
anything on which the protocols depended.

Before the mid-1990s, lists of valid top-level domain names changed
infrequently. New country codes were gradually, and then more
rapidly, added as the Internet expanded, but the list of generic
domains did not change at all between the establishment
of the "INT."
domain in 1988 and ICANN's allocation of new generic TLDs in 2000.
Some application developers responded by assuming that any two-letter

domain name could be valid as a TLD, but the list of generic TLDs was fixed and could be kept locally and tested. Several of these assumptions changed as ICANN started to allocate new top-level

domains: one two-letter domain that does not appear in the ISO 3166-1 table [ISO.3166.1988] was tentatively approved, and new domains were created with three, four, and even six letter codes.

As of the first quarter of 2003, the list of valid, non-country, top-level domains was .AERO, .BIZ, .COM, .COOP, .EDU, .GOV, .INFO, .INT, .MIL, .MUSEUM, .NAME, .NET, .ORG, .PRO, and .ARPA. ICANN is expected to expand that list at regular intervals, so the list that appears here should not be used in testing. Instead, systems that filter by testing top-level domain names should regularly update their local tables of TLDs (both "generic" and country-code-related) by polling the list published by IANA [DomainList]. It is likely that the better strategy has now become to make the "at least one period" test, to verify LDH conformance (including verification that the apparent TLD name is not all-numeric), and then to use the DNS to determine domain name validity, rather than trying to maintain a local list of valid TLD names.

A DNS label may be no more than 63 octets long. This is in the form actually stored; if a non-ASCII label is converted to encoded "punycode" form (see Section 5), the length of that form may restrict the number of actual characters (in the original character set) that can be accommodated. A complete, fully-qualified, domain name must not exceed 255 octets.

Some additional mechanisms for guessing correct domain names when incomplete information is provided have been developed for use with the web and are discussed in Section 4.4.

3. Restrictions on email addresses

Reference documents: RFC 2821 [RFC2821] and RFC 2822 [RFC2822]

Contemporary email addresses consist of a "local part" separated from a "domain part" (a fully-qualified domain name) by an at-sign ("@").

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The syntax of the domain part corresponds to that in the previous section. The concerns identified in that section about filtering and lists of names apply to the domain names used in an email context as well. The domain name can also be replaced by an IP address in square brackets, but that form is strongly discouraged except for testing and troubleshooting purposes.

The local part may appear using the quoting conventions described below. The quoted forms are rarely used in practice, but are required for some legitimate purposes. Hence, they should not be rejected in filtering routines but, should instead be passed to the email system for evaluation by the destination host.

The exact rule is that any ASCII character, including control characters, may appear quoted, or in a quoted string. When quoting is needed, the backslash character is used to quote the following character. For example

Abc\@def@example.com

is a valid form of an email address. Blank spaces may also appear, as in

Fred\ Bloggs@example.com

The backslash character may also be used to quote itself, e.g.,

Joe.\\Blow@example.com

In addition to quoting using the backslash character, conventional double-quote characters may be used to surround strings. For example

"Abc@def"@example.com

"Fred Bloggs"@example.com

are alternate forms of the first two examples above. These quoted forms are rarely recommended, and are uncommon in practice, but, as

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discussed above, must be supported by applications that are processing email addresses. In particular, the quoted forms often appear in the context of addresses associated with transitions from other systems and contexts; those transitional requirements do still arise and, since a system that accepts a user-provided email address cannot "know" whether that address is associated with a legacy system, the address forms must be accepted and passed into the email environment.

Without quotes, local-parts may consist of any combination of alphabetic characters, digits, or any of the special characters

```
! # $ % & ' * + - / = ?  ^ _ ` . { | } ~
```

period (".") may also appear, but may not be used to start or end the local part, nor may two or more consecutive periods appear. Stated differently, any ASCII graphic (printing) character other than the at-sign ("@"), backslash, double quote, comma, or square brackets may appear without quoting. If any of that list of excluded characters are to appear, they must be quoted. Forms such as

```
user+mailbox@example.com
```



```
customer/department=shipping@example.com

$A12345@example.com

!def!xyz%abc@example.com

_somename@example.com
```

are valid and are seen fairly regularly, but any of the characters listed above are permitted. In the context of local parts, apostrophe ("'") and acute accent ("`") are ordinary characters, not quoting characters. Some of the characters listed above are used in conventions about routing or other types of special handling by some receiving hosts. But, since there is no way to know whether the remote host is using those conventions or just treating

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these
characters as normal text, sending programs (and programs evaluating address validity) must simply accept the strings and pass them on.

In addition to restrictions on syntax, there is a length limit on email addresses. That limit is a maximum of 64 characters (octets) in the "local part" (before the "@") and a maximum of 255 characters (octets) in the domain part (after the "@") for a total length of 320 characters. Systems that handle email should be prepared to process addresses which are that long, even though they are rarely encountered.

4. URLs and URIs

4.1. URI syntax definitions and issues

The syntax for URLs (Uniform Resource Locators) is specified in [RFC1738]. The syntax for the more general "URI" (Uniform Resource Identifier) is specified in [RFC2396]. The URI syntax is extremely general, with considerable variations permitted according to the type of "scheme" (e.g., "http", "ftp", "mailto") that is being used. While it is possible to use the general syntax rules of RFC 2396 to perform syntax checks, they are general enough --essentially only specifying the separation of the scheme name and "scheme specific part" with a colon (":") and excluding some characters that must be escaped if used-- to provide little significant filtering or validation power.

The following characters are reserved in many URIs -- they must be used for either their URI-intended purpose or must be encoded. Some particular schemes may either broaden or relax these restrictions (see the following sections for URLs applicable to "web pages" and electronic mail), or apply them only to particular URI component parts.

; / ? : @ & = + $, ?

In addition, control characters, the space character, the double-quote (") character,
and the following special characters

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< > # %

are generally forbidden and must either be avoided or escaped, as discussed below.

The colon after the scheme name, and the percent sign used to escape characters, are specifically reserved for those purposes, although ":" may also be used elsewhere in some schemes.

When it is necessary to encode these, or other, characters, the method used is to replace it with a percent-sign ("%") followed by two hexidecimal digits representing its octet value. See section 2.4.1 of [RFC2396] for an exact definition. Unless it is used as a delimiter of the URI scheme itself, any character may optionally be encoded this way; systems that are testing URI syntax should be prepared for these encodings to appear in any component of the URI except the scheme name itself.

A "generic URI" syntax is specified and is more restrictive, but using it to test URI strings requires that one know whether or not

the particular scheme in use obeys that syntax. Consequently, applications that intend to check or validate URIs should normally identify the scheme name and then apply scheme-specific tests. The rules for two of those -- HTTP [RFC1738] and MAILTO [RFC2368] URLs -- are discussed below, but the author of an application which intends to make very precise checks, or to reject particular syntax rather than just warning the user, should consult the relevant scheme-definition documents for precise syntax and relationships.

4.2. The HTTP URL

Absolute HTTP URLs consist of the scheme name, a host name (expressed as a domain name or IP address), and optional port number, and then, optionally, a path, a search part, and a fragment identifier. These are separated, respectively, by a colon and the two slashes that precede the host name, a colon, a slash, a question mark, and a hash mark ("#"). So we have

http://host:port/path?search#fragment

http://host/path/

http://host/path#fragment

http://host/path?search

http://host

and other variations on that form. There is also a "relative" form, but it almost never appears in text that a user might, e.g., enter into a form. See [RFC2616] for details.

The characters

/ ; ?

are reserved within the path and search parts and must be encoded; the first of these may be used unencoded, and is often used within the path, to designate hierarchy.

4.3. The MAILTO URL

MAILTO is a URL type whose content is an email address. It can be used to encode any of the email address formats discussed in Section 3 above. It can also support multiple addresses and the inclusion of headers (e.g., Subject lines) within the body of the URL. MAILTO is authoritatively defined in RFC 2368 [RFC2368]; anyone expecting to accept and test multiple addresses or mail header or body formats should consult that document carefully.

In accepting text for, or validating, a MAILTO URL, it is important to note that, while it can be used to encode any valid email address, it is not sufficient to copy an email address into a MAILTO URL since email addresses may include a number of characters that are invalid in, or have reserved uses for, URLs. Those characters must be encoded, as outlined in Section 4.1 above, when the addresses are mapped into the URL form. Conversely, addresses in MAILTO URLs cannot, in general, be copied directly into email contexts, since few email programs will reverse the decodings (and doing so might be interpreted as a protocol violation).

The following characters may appear in MAILTO URLs only with the specific defined meanings given. If they appear in an email address (i.e., for some other purpose), they must be encoded:

: The colon in "mailto:"

< > # " % { } | \ ^ ~ `

These characters are "unsafe" in any URL, and must always be encoded.

The following characters must also be encoded if they appear in a MAILTO URL

? & =
Used to delimit headers and their values when these are encoded into URLs.

Some examples may be helpful:

```
+-------------------------+----------------------------+-----------+
|     Email address       |        MAILTO URL          |   Notes   |
+-------------------------+----------------------------+-----------+
|    Joe@example.com      | mailto:joe@example.com     |     1     |
|                         |                            |           |
| user+mailbox@example    |        mailto:             |     2     |
|         .com
        | user%2Bmailbox@example     |           |
|                         |         .com               |           |
|                         |                            |           |
| customer/department=    | mailto:customer%2F         |     3     |
| shipping@example.com    | department=shipping@example |          |
|                         |         .com               |           |
|                         |                            |           |
|  $A12345@example.com    | mailto:$A12345@example     |     4     |
|                         |         .com               |           |
|                         |                            |           |
| !def!xyz%abc@example    | mailto:!def!xyz%25abc      |     5     |
|         .com            |      @example.com          |           |
|                         |                            |           |
| _somename@example.com   | mailto:_somename@example   |     4
  |
|                         |         .com               |           |
+-------------------------+----------------------------+-----------+
```

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Table 1

Notes on Table

1. No characters appear in the email address that require escaping, so the body of the MAILTO URL is identical to the email address.

2. There is actually some uncertainty as to whether or not the "+" characters requires escaping in MAILTO URLs (the standards are not precisely clear). But, since any character in the address specification may optionally be encoded, it is probably safer to encode it.

3. The "/" character is generally reserved in URLs, and must be encoded as %2F.

4. Neither the "$" nor the "_" character are given any special interpretation in
MAILTO URLs, so need not be encoded.

5. While the "!" character has no special interpretation, the "%" character is used to introduce encoded sequences and hence it must always be encoded.

4.4. Guessing domain names in web contexts

Several web browsers have adopted a practice that permits an incomplete domain name to be used as input instead of a complete URL. This has, for example, permitted users to type "microsoft" and have the browser interpret the input as "http://www.microsoft.com/". Other browser versions have gone even further, trying to build DNS names up through a series of heuristics, testing each variation in turn to see if it appears in the DNS, and accepting the first one found as the intended domain name. Still, others automatically invoke search engines if no period appears or if the reference fails. If any of these approaches are to be used, it is often critical that the browser recognize the complete list of TLDs. If an incomplete
list is used, complete domain names may not be recognized as such and

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the system may try to turn them into completely different names. For example, "example.aero" is a fully-qualified name, since "AERO." is a TLD name. But, if the system doesn't recognize "AERO" as a TLD name, it is likely to try to look up "example.aero.com" and "www.example.aero.com" (and then fail or find the wrong host), rather than simply looking up the user-supplied name.

As discussed in Section 2 above, there are dangers associated with software that attempts to "know" the list of top-level domain names locally and take advantage of that knowledge. These name-guessing heuristics are another example of that situation: if the lists are up-to-date and used carefully, the systems in which they are embedded may provide an easier, and more attractive, experience for at least some users. But finding the wrong host, or being unable to find a host even when its name is precisely known, constitute bad experiences by any measure.

More generally, there have been bad experiences with attempts to "complete" domain names by adding additional information to them. These issues are described in some detail in RFC 1535 [RFC1535].

5. Implications of internationalization

The IETF has adopted a series of proposals ([RFC3490] - [RFC3492]) whose purpose is to permit encoding internationalized (i.e., non-ASCII) names in the DNS. The primary standard, and the group generically, are known as "IDNA". The actual strings stored in the

DNS are in an encoded form: the labels begin with the characters "xn--" followed by the encoded string. Applications should be prepared to accept and process the encoded form (those strings are consistent with the "LDH rule" (see Section 2) so should not raise any separate issues) and the use of local, and potentially other, characters as appropriate to local systems and circumstances.

The IDNA specification describes the exact process to be used to validate a name or encoded string. The process is sufficiently complex that shortcuts or heuristics, especially for versions of labels written directly in Unicode or other coded character sets, are

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likely to fail and cause problems. In particular, the strings cannot be validated with syntax or semantic rules of any of the usual sorts: syntax validity is defined only in terms of the result of executing a particular function.

In addition to the restrictions imposed by the protocols themselves, many domains are implementing rules about just which non-ASCII names they will permit to be registered (see, e.g., [JET], [RegRestr]). This work is still relatively new, and the rules and conventions are likely to be different for each domain, or at least each language or script group. Attempting to test for those rules in a client program to see if a user-supplied name might possibly exist in the relevant domain would almost certainly be ill-advised.

One quick local test however, may be reasonable: as of the time of this writing, there should be no instances of labels in the DNS that start with two characters, followed by two hyphens, where the two characters are not "xn" (in, of course, either upper or lower case). Such label strings, if they appear, are probably erroneous or obsolete, and it may be reasonable to at least warn the user about them.

There is ongoing work in the IETF and elsewhere to define internationalized formats for use in other protocols, including email addresses. Those forms may or may not conform to existing rules for ASCII-only identifiers; anyone designing evaluators or filters should watch that work closely.

6. Summary

When an application accepts a string from the user and ultimately passes it on to an API for a protocol, the desirability of testing or filtering the text in any way not required by the protocol itself is hotly debated. If it must divide the string into its components, or otherwise interpret it, it obviously must make at least enough tests to validate that process. With, e.g., domain names or email addresses that can be passed on untouched, the appropriateness of

trying to figure out which ones are valid and which ones are not

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requires a more complex decision, one that should include considerations of how to make exactly the correct tests and to keep information that changes and evolves up-to-date. A test containing obsolete information, can be extremely frustrating for potential correspondents or customers and may harm desired relationships.

7. Security Considerations

Since this document merely summarizes the requirements of existing standards, it does not introduce any new security issues. However, many of the techniques that motivate the document raise important security concerns of their own. Rejecting valid forms of domain names, email addresses, or URIs often denies service to the user of those entities. Worse, guessing at the user's intent when an incomplete address, or other string, is given can result in compromises to privacy or accuracy of reference if the wrong target is found and returned. From a security standpoint, the optimum behavior is probably to never guess, but instead, to force the user to specify exactly what is wanted. When that position involves a tradeoff with an acceptable user experience, good judgment should be used and the fact that it is a tradeoff recognized.

Some characters have special or privileged meanings on some systems (i.e., ` on Unix). Applications should be careful to escape those locally if necessary. By the same token, they are valid, and should not be disallowed locally, or escaped when transmitted through Internet protocols, for such reasons if a remote site chooses to use them.

The presence of local checking does not permit remote checking to be bypassed. Note that this can apply to a single machine; in particular, a local MTA should not assume that a local MUA has properly escaped locally-significant special characters.

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alphabetical list of current top-level domains.
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Abstract

This standard specifies a syntax for text messages that are sent between computer users, within the framework of "electronic mail" messages. This standard supersedes the one specified in Request For Comments (RFC) 822, "Standard for the Format of ARPA Internet Text Messages", updating it to reflect current practice and incorporating incremental changes that were specified in other RFCs.

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1. Introduction

1.1. Scope

This standard specifies a syntax for text messages that are sent between computer users, within the framework of "electronic mail" messages. This standard supersedes the one specified in Request For Comments (RFC) 822, "Standard for the Format of ARPA Internet Text Messages" [RFC822], updating it to reflect current practice and incorporating incremental changes that were specified in other RFCs [STD3].

This standard specifies a syntax only for text messages. In particular,
it makes no provision for the transmission of images, audio, or other sorts of structured data in electronic mail messages. There are several extensions published, such as the MIME document series [RFC2045, RFC2046, RFC2049], which describe mechanisms for the transmission of such data through electronic mail, either by extending the syntax provided here or by structuring such messages to conform to this syntax. Those mechanisms are outside of the scope of this standard.

In the context of electronic mail, messages are viewed as having an envelope and contents. The envelope contains whatever information is

needed to accomplish transmission and delivery. (See [RFC2821] for a discussion of the envelope.) The contents comprise the object to be delivered to the recipient. This standard applies only to the format and some of the semantics of message contents. It contains no specification of the information in the envelope.

However, some message systems may use information from the contents to create the envelope. It is intended that this standard facilitate the acquisition of such information by programs.

This specification is intended as a definition of what message content format is to be passed between systems. Though some message systems locally store messages in this format (which eliminates the need for translation between formats) and others use formats that differ from the one specified in this standard, local storage is outside of the scope of this standard.

Note: This standard is not intended to dictate the internal formats used by sites, the specific message system features that they are expected to support, or any of the characteristics of user interface programs that create or read messages. In addition, this standard does not specify an encoding of the characters for either transport or storage; that is, it does not specify the number of bits used or how those bits are specifically transferred over the wire or stored on disk.

1.2. Notational conventions

1.2.1. Requirements notation

This document occasionally uses terms that appear in capital letters. When the terms "MUST", "SHOULD", "RECOMMENDED", "MUST NOT", "SHOULD NOT", and "MAY" appear capitalized, they are being used to indicate particular requirements of this specification. A discussion of the meanings of these terms appears in [RFC2119].

1.2.2. Syntactic notation

This standard uses the Augmented Backus-Naur Form (ABNF) notation

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specified in [RFC2234] for the formal definitions of the syntax of messages. Characters will be specified either by a decimal value (e.g., the value %d65 for uppercase A and %d97 for lowercase A) or by a case-insensitive literal value enclosed in quotation marks (e.g., "A" for either uppercase or lowercase A). See [RFC2234] for the full description of the notation.

1.3. Structure of this document

This document is divided into several sections.

This section, section 1, is a short introduction to the document.

Section 2 lays out the general description of a message and its constituent parts. This is an overview to help the reader understand some of the general principles used in the later portions of this document. Any examples in this section MUST NOT be taken as specification of the formal syntax of any part of a message.

Section 3 specifies formal ABNF rules for the structure of each part of a message (the syntax) and describes the relationship between those parts and their meaning in the context of a message (the semantics). That is, it describes the actual rules for the structure of each part of a message (the syntax) as well as a description of the parts and instructions on how they ought to be interpreted (the semantics). This includes analysis of the syntax and semantics of

subparts of messages that have specific structure. The syntax included in section 3 represents messages as they MUST be created. There are also notes in section 3 to indicate if any of the options specified in the syntax SHOULD be used over any of the others.

Both sections 2 and 3 describe messages that are legal to generate for purposes of this standard.

Section 4 of this document specifies an "obsolete" syntax. There are references in section 3 to these obsolete syntactic elements. The rules of the obsolete syntax are elements that have appeared in earlier revisions of this standard or have previously been widely used in Internet messages. As such, these elements MUST be

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interpreted by parsers of messages in order to be conformant to this standard. However, since items in this syntax have been determined to be non-interoperable or to cause significant problems for recipients of messages, they MUST NOT be generated by creators of conformant messages.

Section 5 details security considerations to take into account when implementing this standard.

Section 6 is a bibliography of references in this document.

Section 7 contains the editor's address.

Section 8 contains acknowledgements.

Appendix A lists examples of different sorts of messages. These examples are not exhaustive of the types of messages that appear on the Internet, but give a broad overview of certain syntactic forms.

Appendix B lists the differences between this standard and earlier standards for Internet messages.

Appendix C has copyright and intellectual property notices.

2. Lexical Analysis of Messages

2.1. General Description

At the most basic level, a message is a series of characters. A message that is conformant with this standard is comprised of characters with values in the range 1 through 127 and interpreted as US-ASCII characters [ASCII]. For brevity, this document sometimes refers to this range of characters as simply "US-ASCII characters".

Note: This standard specifies that messages are made up of characters in the US-ASCII range of 1 through 127. There are other documents, specifically the MIME document series [RFC2045, RFC2046, RFC2047,

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RFC2048, RFC2049], that extend this standard to allow for values outside of that range. Discussion of those mechanisms is not within the scope of this standard.

Messages are divided into lines of characters. A line is a series of characters that is delimited with the two characters carriage-return and line-feed;
that is, the carriage return (CR) character (ASCII value 13) followed immediately by the line feed (LF) character (ASCII value 10). (The carriage-return/line-feed pair is usually written in this document as "CRLF".)

A message consists of header fields (collectively called "the header of the message") followed, optionally, by a body. The header is a sequence of lines of characters with special syntax as defined in this standard. The body is simply a sequence of characters that follows the header and is separated from the header by an empty line (i.e., a line with nothing preceding the CRLF).

2.1.1. Line Length Limits

There are two limits that this standard places on the number of characters in a line. Each line of characters MUST be no more than 998 characters, and SHOULD be no more than 78 characters, excluding the CRLF.

The 998 character limit is due to limitations in many implementations which send, receive, or store Internet
Message Format messages that
simply cannot handle more than 998 characters on a line. Receiving implementations would do well to handle an arbitrarily large number of characters in a line for robustness sake. However, there are so many implementations which (in compliance with the transport requirements of [RFC2821]) do not accept messages containing more than 1000 character including the CR and LF per line, it is important for implementations not to create such messages.

The more conservative 78 character recommendation is to accommodate the many implementations of user interfaces that display these messages which may truncate, or disastrously wrap, the display of more than 78 characters per line, in spite of the fact that such implementations are non-conformant to the intent of this specification (and that of [RFC2821] if they actually cause information to be lost). Again, even though this limitation is put on messages, it is encumbant upon
implementations which display messages

to handle an arbitrarily large number of characters in a line (certainly at least up to the 998 character limit) for the sake of robustness.

2.2. Header Fields

Header fields are lines composed of a field name, followed by a colon (":"), followed by a field body, and terminated by CRLF. A field name MUST be composed of printable US-ASCII characters (i.e., characters that have values between 33 and 126, inclusive), except colon. A field body may be composed of any US-ASCII characters, except for CR and LF. However, a field body may contain CRLF when used in header "folding" and "unfolding" as described in section 2.2.3. All field bodies MUST conform to the syntax described in sections 3 and 4 of this standard.

2.2.1. Unstructured Header Field Bodies

Some field bodies in this standard are defined simply as "unstructured" (which is specified below as any US-ASCII characters, except for CR and LF) with no further restrictions. These are referred to as unstructured field bodies. Semantically, unstructured field bodies are simply to be treated as a single line of characters with no further processing (except for header "folding" and "unfolding" as described in section 2.2.3).

2.2.2. Structured Header Field Bodies

Some field bodies in this standard have specific syntactical structure more restrictive than the unstructured field bodies described above. These are referred to as "structured" field bodies. Structured field bodies are sequences of specific lexical tokens as described in sections 3 and 4 of this standard. Many of these tokens are allowed (according to their syntax) to be introduced or end with comments (as described in section 3.2.3) as well as the space (SP, ASCII value 32)
and horizontal tab (HTAB, ASCII value 9) characters (together known as the white space characters, WSP), and those WSP characters are subject to header "folding" and "unfolding" as described in section 2.2.3. Semantic analysis of structured field

bodies is given along with their syntax.

2.2.3. Long Header Fields

Each header field is logically a single line of characters comprising the field name, the colon, and the field body. For convenience however, and to deal with the 998/78 character limitations per line, the field body portion of a header field can be split into a multiple line representation; this is called "folding". The general rule is

that wherever this standard allows for folding white space (not simply WSP characters), a CRLF may be inserted before any WSP. For example, the header field:

```
Subject: This is a test
```

can be represented as:

```
Subject: This
 is a test
```

Note: Though structured field bodies are defined in such a way that folding can take place between many of the lexical tokens (and even within some of the lexical tokens), folding SHOULD be limited to placing the CRLF at higher-level syntactic breaks. For instance, if a field body is defined as comma-separated values, it is recommended that folding occur after the comma separating the structured items in preference to other places where the field could be folded, even if it is allowed elsewhere.

The process of moving from this folded multiple-line representation of a header field to its single line representation is called "unfolding". Unfolding is accomplished by simply removing any CRLF that is immediately followed by WSP. Each header field should be treated in its unfolded form for further syntactic and semantic evaluation.

2.3. Body

The body of a message is simply lines of US-ASCII characters. The

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only two limitations on the body are as follows:

- CR and LF MUST only occur together as CRLF; they MUST NOT appear independently in the body.

- Lines of characters in the body MUST be limited to 998 characters, and SHOULD be limited to 78 characters, excluding the CRLF.

Note: As was stated earlier, there are other standards documents, specifically the MIME documents [RFC2045, RFC2046, RFC2048, RFC2049] that extend this standard to allow for different sorts of message bodies. Again, these mechanisms are beyond the scope of this document.

3. Syntax

3.1. Introduction

The syntax as given in this section defines the legal syntax of Internet messages. Messages that are conformant to this standard MUST conform
to the syntax in this section. If there are options in this section where one option SHOULD be generated, that is indicated either in the prose or in a comment next to the syntax.

For the defined expressions, a short description of the syntax and use is given, followed by the syntax in ABNF, followed by a semantic analysis. Primitive tokens that are used but otherwise unspecified come from [RFC2234].

In some of the definitions, there will be nonterminals whose names start with "obs-". These "obs-" elements refer to tokens defined in the obsolete syntax in section 4. In all cases, these productions are to be ignored for the purposes of generating legal Internet messages and MUST NOT be used as part of such a message. However, when interpreting messages, these tokens MUST be honored as part of

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the legal syntax. In this sense, section 3 defines a grammar for generation of messages, with "obs-" elements that are to be ignored, while
section 4 adds grammar for interpretation of messages.

3.2. Lexical Tokens

The following rules are used to define an underlying lexical analyzer, which feeds tokens to the higher-level parsers. This section defines the tokens used in structured header field bodies.

Note: Readers of this standard need to pay special attention to how these lexical tokens are used in both the lower-level and higher-level syntax later in the document. Particularly, the white space tokens and the comment tokens defined in section 3.2.3 get used in the lower-level tokens defined here, and those lower-level tokens are in turn used as parts of the higher-level tokens defined later. Therefore, the white space and comments may be allowed in the higher-level tokens even though they may not explicitly appear in a particular definition.

3.2.1. Primitive Tokens

The following are primitive tokens referred to elsewhere in this standard, but not otherwise defined in [RFC2234].
Some of them will
not appear anywhere else in the syntax, but they are convenient to refer to in other parts of this document.

Note: The "specials" below are just such an example. Though the specials token does not appear anywhere else in this standard, it is useful for implementers who use tools that lexically analyze messages. Each of the characters in specials can be used to indicate a tokenization point in lexical analysis.

```
NO-WS-CTL       =       %d1-8 /         ; US-ASCII control characters
                        %d11 /          ;  that do not include the
                        %d12 /          ;  carriage return, line feed,
                        %d14-31 /       ;  and white space characters
                        %d127
```

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```
text          =      %d1-9 /        ; Characters excluding CR and LF
                      %d11 /
                     %d12 /
                     %d14-127 /
                     obs-text

specials      =      "(" / ")" /     ; Special characters used in
                     "<" / ">" /     ;  other parts of the syntax
                     "[" / "]" /
                     ":" / ";" /
                     "@" / "\" /
                     "," / "." /
                     DQUOTE
```

No special semantics are attached to these tokens. They are simply single characters.

3.2.2. Quoted characters

Some characters are reserved for special interpretation, such as delimiting lexical tokens. To permit use of these characters as uninterpreted data, a quoting mechanism is provided.

```
quoted-pair     =      ("\" text) / obs-qp
```

Where any quoted-pair appears, it is to be interpreted as the text character alone. That is to say, the "\" character that appears as part of a quoted-pair is semantically "invisible".

Note: The "\" character may appear in a message where it is not part of a quoted-pair. A "\" character that does not appear in a quoted-pair is not semantically invisible. The only places in this standard where quoted-pair currently appears are ccontent, qcontent, dcontent, no-fold-quote, and no-fold-literal.

3.2.3. Folding white space and comments

White space characters, including white space used in folding

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(described in section 2.2.3), may appear between many elements in header field bodies. Also, strings of characters that are treated as comments may be included in structured field bodies as characters enclosed in parentheses. The following defines the folding white space (FWS) and comment constructs.

Strings of characters enclosed in parentheses are considered comments so long as they
do not appear within a "quoted-string", as defined in section 3.2.5. Comments may nest.

There are several places in this standard where comments and FWS may be freely inserted. To accommodate that syntax, an additional token for "CFWS" is defined for places where comments and/or FWS can occur. However, where CFWS occurs in this standard, it MUST NOT be inserted in such a way that any line of a folded header field is made up entirely of WSP characters and nothing else.

```
FWS          =      ([*WSP CRLF] 1*WSP) /   ; Folding white space
                  obs-FWS

ctext        =      NO-WS-CTL /     ; Non white space controls

                  %d33-39 /       ; The rest of the US-ASCII
                  %d42-91 /       ;  characters not including "(",
                  %d93-126        ;  ")", or "\"

ccontent     =      ctext / quoted-pair / comment

comment      =      "(" *([FWS] ccontent) [FWS] ")"

CFWS         =
   *([FWS] comment) (([FWS] comment) / FWS)
```

Throughout this standard, where FWS (the folding white space token) appears, it indicates a place where header folding, as discussed in section 2.2.3, may take place. Wherever header folding appears in a message (that is, a header field body containing a CRLF followed by any WSP), header unfolding (removal of the CRLF) is performed before any further lexical analysis is performed on that header field according to this standard. That is to say, any CRLF that appears in FWS is semantically "invisible."

A comment is normally used in a structured field body to provide some human readable informational text. Since a comment is allowed to contain FWS, folding is permitted within the comment. Also note that since quoted-pair is allowed in a comment, the parentheses and

backslash characters may appear in a comment so long as they appear as a quoted-pair. Semantically, the enclosing parentheses are not part of the comment; the comment is what is contained between the two parentheses. As stated earlier, the "\" in any quoted-pair and the CRLF in any FWS that appears within the comment are semantically "invisible" and therefore not part of the comment either.

Runs of FWS, comment or CFWS that occur between lexical tokens in a structured field header are semantically interpreted as a single space character.

3.2.4. Atom

Several productions in structured header field bodies are simply strings of certain basic characters. Such productions are called atoms.

Some of the structured header field bodies also allow the period character (".", ASCII value 46) within runs of atext. An additional "dot-atom" token is defined for those purposes.

```
atext          =      ALPHA / DIGIT / ; Any character except
 controls,
                    "!" / "#" /     ;  SP, and specials.
                    "$" / "%" /     ;  Used for atoms
                    "&" / "'" /
                    "*" / "+" /
                    "-" / "/" /
                    "=" / "?" /
                    "^" / "_" /
                    "`" / "{" /
                    "|" / "}" /
                    "~"

atom           =      [CFWS] 1*atext [CFWS]

dot-atom       =      [CFWS] dot-atom-text [CFWS]

dot-atom-text  =      1*atext *("." 1*atext)
```

Both atom and dot-atom are interpreted as a single unit, comprised of the string of characters that make it up. Semantically, the optional comments and FWS surrounding the rest of the characters are not part of the atom; the atom is only the run of atext characters in an atom, or the atext and "." characters in a dot-atom.

3.2.5. Quoted strings

Strings of characters that include characters other than those allowed in atoms may be represented in a quoted string format, where the characters are surrounded by quote (DQUOTE, ASCII value 34) characters.

```
qtext          =      NO-WS-CTL /     ; Non white space controls

                      %d33 /          ; The rest of the US-ASCII
                      %d35-91 /       ;  characters not including "\"
                      %d93-126        ;  or the quote character

qcontent       =      qtext / quoted-pair

quoted-string  =      [CFWS]
                      DQUOTE *([FWS] qcontent) [FWS] DQUOTE
                      [CFWS]
```

A quoted-string is treated as a unit. That is, quoted-string is identical to atom, semantically. Since a quoted-string is allowed to contain FWS, folding is permitted. Also note that since quoted-pair is allowed in a quoted-string, the quote and backslash characters may appear in a quoted-string so long as they appear as a quoted-pair.

Semantically, neither the optional CFWS outside of the quote characters nor the quote characters themselves are part of the quoted-string; the quoted-string is what is contained between the two quote characters. As stated earlier, the "\" in any quoted-pair and

the CRLF in any FWS/CFWS that appears within the quoted-string are semantically "invisible" and therefore not part of the quoted-string either.

3.2.6. Miscellaneous tokens

Three additional tokens are defined, word and phrase for combinations of atoms and/or quoted-strings, and unstructured for use in unstructured header fields and in some places within structured header fields.

```
word          =       atom / quoted-string

phrase        =       1*word / obs-phrase
```



```
utext         =       NO-WS-CTL /     ; Non white space controls
                      %d33-126 /      ; The rest of US-ASCII
                      obs-utext

unstructured  =       *([FWS] utext) [FWS]
```

3.3. Date and Time Specification

Date and time occur in several header fields. This section specifies the syntax for a full date and time specification. Though folding white space is permitted throughout the date-time specification, it is RECOMMENDED that a single space be used in each place that FWS appears (whether it is required or optional); some older implementations may not interpret other occurrences of folding white space correctly.

```
date-time     =       [ day-of-week "," ] date FWS time [CFWS]

day-of-week   =       ([FWS] day-name) / obs-day-of-week
```

```
day-name        =       "Mon" / "Tue" / "Wed" / "Thu" /
                        "Fri" / "Sat" / "Sun"

date            =       day month year

year            =
      4*DIGIT / obs-year

month           =       (FWS month-name FWS) / obs-month

month-name      =       "Jan" / "Feb" / "Mar" / "Apr" /
                        "May" / "Jun" / "Jul" / "Aug" /
                        "Sep" / "Oct" / "Nov" / "Dec"

day             =       ([FWS] 1*2DIGIT) / obs-day

time            =       time-of-day FWS zone

time-of-day     =       hour ":" minute [ ":" second ]

hour            =       2DIGIT / obs-hour

minute          =       2DIGIT / obs-minute

second          =       2DIGIT / obs-second

zone            =       (( "+" / "-" ) 4DIGIT) / obs-zone
```


The day is the numeric day of the month. The year is any numeric year 1900 or later.

The time-of-day specifies the number of hours, minutes, and optionally seconds since midnight of the date indicated.

The date and time-of-day SHOULD express local time.

The zone specifies the offset from Coordinated Universal Time (UTC, formerly referred to as "Greenwich Mean Time") that the date and

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time-of-day represent. The "+" or "-" indicates whether the time-of-day is ahead of (i.e., east of) or behind (i.e., west of) Universal Time. The first two digits indicate the number of hours difference from Universal Time, and the last two digits indicate the number of minutes difference from Universal Time. (Hence, +hhmm means +(hh * 60 + mm) minutes, and -hhmm means -(hh * 60 + mm) minutes). The form "+0000" SHOULD be used to indicate a time zone at Universal Time. Though "-0000" also indicates Universal Time, it is used to indicate that the time was generated on a system that may be in a local time zone other than Universal Time and therefore indicates that the date-time contains no information about the local time zone.

A date-time specification MUST be semantically valid. That is, the day-of-the-week (if included) MUST be the day implied by the date, the numeric day-of-month MUST be between 1 and the number of days allowed for the specified month (in the specified year), the time-of-day MUST be in the range 00:00:00 through 23:59:60 (the number of seconds allowing for a leap second; see [STD12]), and the zone MUST be within the range -9959 through +9959.

3.4. Address Specification

Addresses occur in several message header fields to indicate senders and recipients of messages. An address may either be an individual mailbox, or a group of mailboxes.

```
address         =       mailbox / group

mailbox         =       name-addr / addr-spec

name-addr       =       [display-name] angle-addr

angle-addr      =       [CFWS] "<" addr-spec ">" [CFWS] / obs-angle-addr

group           =       display-name ":" [mailbox-list / CFWS] ";"
                        [CFWS]
```


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display-name = phrase

mailbox-list = (mailbox *("," mailbox)) / obs-mbox-list

address-list = (address *("," address)) / obs-addr-list

A mailbox receives mail. It is a conceptual entity which does not necessarily pertain to file storage. For example, some sites may choose to print mail on a printer and deliver the output to the addressee's desk. Normally, a mailbox is comprised of two parts: (1) an optional display name that indicates the name of the recipient (which could be a person or a system) that could be displayed to the user of a mail application, and (2) an addr-spec address enclosed in angle brackets ("<" and ">"). There is also an alternate simple form of a mailbox where the addr-spec address appears alone, without the recipient's name or the angle brackets. The Internet addr-spec address is described in section 3.4.1.

Note:
Some legacy implementations used the simple form where the addr-spec appears without the angle brackets, but included the name of the recipient in parentheses as a comment following the addr-spec. Since the meaning of the information in a comment is unspecified, implementations SHOULD use the full name-addr form of the mailbox, instead of the legacy form, to specify the display name associated with a mailbox. Also, because some legacy implementations interpret the comment, comments generally SHOULD NOT be used in address fields to avoid confusing such implementations.

When it is desirable to treat several mailboxes as a single unit (i.e., in a distribution list), the group construct can be used. The group construct allows the sender to indicate a named group of recipients. This is done by giving a display name for the group, followed by a colon, followed by a comma separated list of any number of mailboxes (including zero and one), and ending with a semicolon.
Because the list of mailboxes can be empty, using the group construct is also a simple way to communicate to recipients that the message was sent to one or more named sets of recipients, without actually providing the individual mailbox address for each of those recipients.

3.4.1. Addr-spec specification

An addr-spec is a specific Internet identifier that contains a locally interpreted string followed by the at-sign character ("@", ASCII value 64) followed by an Internet domain. The locally interpreted string is either a quoted-string or a dot-atom. If the

string can be represented as a dot-atom (that is, it contains no characters other than atext characters or "." surrounded by atext

characters), then the dot-atom form SHOULD be used and the quoted-string form SHOULD NOT be used. Comments and folding white space SHOULD NOT be used around the "@" in the addr-spec.

```
addr-spec       =       local-part "@" domain

local-part      =       dot-atom / quoted-string / obs-local-part

domain          =       dot-atom / domain-literal / obs-domain

domain-literal  =       [CFWS] "[" *([FWS] dcontent) [FWS] "]" [CFWS]

dcontent        =       dtext / quoted-pair

dtext           =       NO-WS-CTL /     ; Non white space controls

                        %d33-90 /       ; The rest of the US-ASCII
                        %d94-126        ;  characters not including "[",
                                        ;  "]", or "\"
```

The domain portion identifies the point to which the mail is delivered. In the dot-atom form, this is interpreted as an Internet domain name (either a host name or a mail exchanger name) as described in [STD3, STD13, STD14]. In the domain-literal form, the domain is interpreted as the literal Internet address of the particular host. In both cases, how addressing is used and how messages are transported to a particular host is covered in the mail transport document [RFC2821]. These mechanisms are outside of the scope of this document.

The local-part portion is a domain dependent string. In addresses, it is simply interpreted on the particular host as a name of a particular mailbox.

3.5 Overall message syntax

A message consists of header fields, optionally followed by a message body. Lines in a message MUST be a maximum of 998 characters excluding the CRLF, but it is RECOMMENDED that lines be limited to 78 characters excluding the CRLF. (See section 2.1.1 for explanation.) In a message body, though all of the characters listed in the text rule MAY be used, the use of US-ASCII control characters (values 1 through 8, 11, 12, and 14 through 31) is discouraged since their interpretation by receivers for display is not guaranteed.


```
message      =     (fields / obs-fields)
                   [CRLF body]

body         =     *(*998text CRLF) *998text
```

The header fields carry most of the semantic information and are defined in section 3.6. The body is simply a series of lines of text which are uninterpreted for the purposes of this standard.

3.6. Field definitions

The header fields of a message are defined here. All header fields have the same general syntactic structure: A field name, followed by a colon, followed by the field body. The specific syntax for each header field is defined in the subsequent sections.

Note: In the ABNF syntax for each field in subsequent sections, each field name is followed by the required colon. However, for brevity sometimes the colon is not referred to in the textual description of the syntax. It is, nonetheless,
required.

It is important to note that the header fields are not guaranteed to be in a particular order. They may appear in any order, and they have been known to be reordered occasionally when transported over the Internet. However, for the purposes of this standard, header fields SHOULD NOT be reordered when a message is transported or

transformed. More importantly, the trace header fields and resent header fields MUST NOT be reordered, and SHOULD be kept in blocks prepended to the message. See sections 3.6.6 and 3.6.7 for more information.

The only required header fields are the origination date field and the originator address field(s). All other header fields are syntactically optional. More information is contained in the table following this definition.

```
fields        =      *(trace
                    *(resent-date /
                      resent-from /
                      resent-sender /

          resent-to /
                      resent-cc /
                      resent-bcc /
                      resent-msg-id))
                   *(orig-date /
                   from /
                   sender /
                   reply-to /
```



```
                   to /
                   cc /
                   bcc /
                   message-id /
                   in-reply-to /
                   references /
                   subject /
                   comments /
                   keywords /
                   optional-field)
```

The following table indicates limits on the number of times each field may occur in a message header as well as any special limitations on the use of those fields. An asterisk next to a value in the minimum
or maximum column indicates that a special restriction appears in the Notes column.

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Field	Min number	Max number	Notes
trace	0	unlimited	Block prepended - see 3.6.7
resent-date	0*	unlimited*	One per block, required if other resent fields present - see 3.6.6
resent-from	0	unlimited*	One per block - see 3.6.6
resent-sender	0*	unlimited*	One per block, MUST occur with multi-address resent-from - see 3.6.6
resent-to	0	unlimited*	One per block - see 3.6.6
resent-cc	0	unlimited*	One per block - see 3.6.6
resent-bcc	0	unlimited*	One per block - see 3.6.6
resent-msg-id	0	unlimited*	One per block - see 3.6.6
orig-date	1	1	
from	1	1	See sender and 3.6.2

sender	0*	1	MUST occur with multi-address from - see 3.6.2
reply-to	0	1	
to	0	1	

cc	0	1	
bcc	0	1	
message-id	0*	1	SHOULD be present - see 3.6.4
in-reply-to	0*	1	SHOULD occur in some replies - see 3.6.4
references	0*	1	SHOULD occur in some replies - see 3.6.4
subject	0	1	
comments	0	unlimited	
keywords	0	unlimited	
optional-field	0	unlimited	

The exact interpretation of each field is described in subsequent sections.

3.6.1. The origination date field

The origination date field consists of the field name "Date" followed by a date-time specification.

```
orig-date       =       "Date:" date-time CRLF
```

The origination date specifies the date and time at which the creator of the message indicated that the message was complete and ready to enter the mail delivery system. For instance, this might be the time that a user pushes the "send" or "submit" button in an application program. In any case, it is specifically not intended to convey the time that the message is actually transported, but rather the time at which the human or other creator of the message has put the message into its final form, ready for transport. (For example, a portable computer user who is not connected to a network might queue a message

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for delivery. The origination date is intended to contain the date and time that the user queued the message, not the time when the user connected to the network to send the message.)

3.6.2. Originator fields

The originator fields of a message consist of the from field, the sender field (when applicable), and optionally the reply-to field. The from field consists of the field name "From" and a comma-separated list of one or more mailbox specifications. If the from field contains more than one mailbox specification in the mailbox-list, then the sender field, containing the field name "Sender" and a single mailbox specification, MUST appear in the message. In either case, an optional reply-to field MAY also be included, which contains the field name "Reply-To" and a comma-separated list of one or more addresses.

```
from        =    "From:" mailbox-list CRLF

sender      =    "Sender:" mailbox CRLF

reply-to    =    "Reply-To:" address-list CRLF
```

The originator fields indicate the mailbox(es) of the source of the message. The "From:" field specifies the author(s) of the message, that is, the mailbox(es) of the person(s) or system(s) responsible for the writing of the message. The "Sender:" field specifies the mailbox of the agent responsible for the actual transmission of the message. For example, if a secretary were to send a message for another person, the mailbox of the secretary would appear in the "Sender:" field and the mailbox of the actual author would appear in the "From:" field. If the originator of the message can be indicated by a single mailbox and the author and transmitter are identical, the "Sender:" field SHOULD NOT be used. Otherwise, both fields SHOULD appear.

The originator fields also provide the information required when replying to a message. When the "Reply-To:" field is present, it indicates the mailbox(es) to which the author of the message suggests that replies be sent. In the absence of the "Reply-To:" field, replies SHOULD by default be sent to the mailbox(es) specified in the "From:" field unless otherwise specified by the person composing the reply.

In all cases, the "From:" field SHOULD NOT contain any mailbox that does not belong to the author(s) of the message. See also section 3.6.3 for more information on forming the destination addresses for a reply.

3.6.3. Destination address fields

The destination fields of a message consist of three possible fields, each of the same form: The field name, which is either "To", "Cc", or "Bcc", followed by a comma-separated list of one or more addresses (either mailbox or group syntax).

```
to      =   "To:" address-list CRLF

cc      =   "Cc:" address-list CRLF

bcc     =   "Bcc:" (address-list / [CFWS]) CRLF
```

The destination fields specify the recipients of the message. Each destination field may have one or more addresses, and each of the addresses indicate the intended recipients of the message. The only difference between the three fields is how each is used.

The "To:" field contains the address(es) of the primary recipient(s) of the message.

The "Cc:" field (where the "Cc" means "Carbon Copy" in the sense of making
a copy on a typewriter using carbon paper) contains the addresses of others who are to receive the message, though the content of the message may not be directed at them.

The "Bcc:" field (where the "Bcc" means "Blind Carbon Copy") contains addresses of recipients of the message whose addresses are not to be revealed to other recipients of the message. There are three ways in which the "Bcc:" field is used. In the first case, when a message containing a "Bcc:" field is prepared to be sent, the "Bcc:" line is removed even though all of the recipients (including those specified in the "Bcc:" field) are sent a copy of the message. In the second case, recipients specified in the "To:" and "Cc:" lines each are sent

a copy of the message with the "Bcc:" line removed as above, but the recipients on the "Bcc:" line get a separate copy of the message containing a "Bcc:" line. (When there are multiple recipient addresses in the "Bcc:" field, some implementations actually send a separate copy of the message to each recipient with a "Bcc:" containing only the address of that particular recipient.) Finally, since a "Bcc:" field may contain no addresses, a "Bcc:" field can be sent without any addresses indicating to the recipients that blind copies were sent to someone. Which method to use with "Bcc:" fields is implementation dependent, but refer to the "Security Considerations" section of this document for a discussion of each.

When a message is a reply to another message, the mailboxes of the authors of the original message (the mailboxes in the "From:" field) or mailboxes specified in the "Reply-To:" field (if it exists) MAY appear in the "To:" field of the reply since these would normally be the primary recipients of the reply. If a reply is sent to a message that has destination fields, it is often desirable to send a copy of the reply to all of the recipients of the message, in addition to the author. When such a reply is formed, addresses in the "To:" and "Cc:" fields of the original message MAY appear in the "Cc:" field of the reply, since these are normally secondary recipients of the reply. If a "Bcc:" field is present in the original message, addresses in that field MAY appear in the "Bcc:" field of the reply, but SHOULD NOT appear in the "To:" or "Cc:" fields.

Note: Some mail applications have automatic reply commands that include the destination addresses of the original message in the destination addresses of the reply. How those reply commands behave is implementation dependent and is beyond the scope of this document. In particular, whether or not to include the original destination addresses when the original message had a "Reply-To:" field is not addressed here.

3.6.4. Identification fields

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Though optional, every message SHOULD have a "Message-ID:" field. Furthermore, reply messages SHOULD have "In-Reply-To:" and "References:" fields as appropriate, as described below.

The "Message-ID:" field contains a single unique message identifier. The "References:" and "In-Reply-To:" field each contain one or more unique message identifiers, optionally separated by CFWS.

The message identifier (msg-id) is similar in syntax to an angle-addr construct without the internal CFWS.

```
message-id      =       "Message-ID:" msg-id CRLF

in-reply-to     =       "In-Reply-To:" 1*msg-id CRLF

references      =       "References:" 1*msg-id CRLF

msg-id          =       [CFWS] "<" id-left "@" id-right ">" [CFWS]

id-left         =       dot-atom-text / no-fold-quote / obs-id-left

id-right        =       dot-atom-text / no-fold-literal / obs-id-right

no-fold-quote   =       DQUOTE *(qtext / quoted-pair) DQUOTE
```



```
no-fold-literal =       "[" *(dtext / quoted-pair) "]"
```

The "Message-ID:" field provides a unique message identifier that refers to a particular version of a particular message. The uniqueness of the message identifier is guaranteed by the host that generates it (see below). This message identifier is intended to be machine readable and not necessarily meaningful to humans. A message identifier pertains to exactly one instantiation of a particular message; subsequent revisions to the message each receive new message identifiers.

Note: There are many instances when messages are "changed", but those changes do not constitute a new instantiation of that message, and therefore the message would not get a new message identifier. For

example, when messages are introduced into the transport system, they are often prepended with additional header fields such as trace fields (described in section 3.6.7) and resent fields (described in section 3.6.6). The addition of such header fields does not change the identity of the message and therefore the original "Message-ID:" field is retained. In all cases, it is the meaning that the sender of the message wishes to convey (i.e., whether this is the same message or a different message) that determines whether or not the "Message-ID:" field changes, not any particular syntactic difference that appears (or does not appear) in the message.

The "In-Reply-To:" and "References:" fields are used when creating a reply to a message. They hold the message identifier of the original message and the message identifiers of other messages (for example, in the case of a reply to a message which was itself a reply). The "In-Reply-To:" field may be used to identify the message (or messages) to which the new message is a reply, while the "References:" field may be used to identify a "thread" of conversation.

When creating a reply to a message, the "In-Reply-To:" and "References:" fields of the resultant message are constructed as follows:

The "In-Reply-To:" field will contain the contents of the "Message-ID:" field of the message to which this one is a reply (the "parent message"). If there is more than one parent message, then the "In-Reply-To:" field will contain the contents of all of the parents' "Message-ID:" fields. If there is no "Message-ID:" field in any of the parent messages, then the new message will have no "In-Reply-To:" field.

The "References:" field will contain the contents of the parent's "References:" field (if any) followed by the contents of the parent's "Message-ID:" field (if any). If

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the parent message does not contain
a "References:" field but does have an "In-Reply-To:" field
containing a single message identifier, then the "References:" field
will contain the contents of the parent's "In-Reply-To:" field
followed by the contents of the parent's "Message-ID:" field (if
any). If the parent has none of the "References:", "In-Reply-To:",
or "Message-ID:" fields, then the new message will have no
"References:" field.

Note: Some implementations parse the "References:" field to display
the "thread of the discussion". These implementations assume that
each new message is a reply to a single parent and hence that they
can walk backwards through the "References:" field to find the parent
of each message listed there. Therefore, trying to form a
"References:" field for a reply that has multiple parents is
discouraged and how to do so is not defined in this document.

The message identifier (msg-id) itself MUST be a globally
unique
identifier for a message. The generator of the message identifier
MUST guarantee that the msg-id is unique. There are several
algorithms that can be used to accomplish this. Since the msg-id has
a similar syntax to angle-addr (identical except that comments and
folding white space are not allowed), a good method is to put the
domain name (or a domain literal IP address) of the host on which the
message identifier was created on the right hand side of the "@", and
put a combination of the current absolute date and time along with
some other currently unique (perhaps sequential) identifier available
on the system (for example, a process id number) on the left hand
side. Using a date on the left hand side and a domain name or domain
literal on the right hand side makes it possible to guarantee
uniqueness since no two hosts use the same domain name or IP address
at the same time. Though other algorithms will work, it is
RECOMMENDED
that the right hand side contain some domain identifier
(either of the host itself or otherwise) such that the generator of
the message identifier can guarantee the uniqueness of the left hand
side within the scope of that domain.

Semantically, the angle bracket characters are not part of the
msg-id; the msg-id is what is contained between the two angle bracket
characters.

3.6.5. Informational fields

The informational fields are all optional. The "Keywords:" field contains a comma-separated list of one or more words or quoted-strings. The "Subject:" and "Comments:" fields are unstructured fields as defined in section 2.2.1, and therefore may contain text or folding white space.

```
subject       =      "Subject:" unstructured CRLF

comments      =      "Comments:" unstructured CRLF

keywords
      =      "Keywords:" phrase *("," phrase) CRLF
```

These three fields are intended to have only human-readable content with information about the message. The "Subject:" field is the most common and contains a short string identifying the topic of the message. When used in a reply, the field body MAY start with the string "Re: " (from the Latin "res", in the matter of) followed by the contents of the "Subject:" field body of the original message. If this is done, only one instance of the literal string "Re: " ought to be used since use of other strings or more than one instance can lead to undesirable consequences. The "Comments:" field contains any additional comments on the text of the body of the message. The "Keywords:" field contains a comma-separated list of important words and phrases that might be useful for the recipient.

3.6.6. Resent fields

Resent fields SHOULD be added to any message that is reintroduced by a user into the transport system. A separate set of resent fields SHOULD be added each time this is done. All of the resent fields corresponding to a particular resending of the message SHOULD be together. Each new set of resent fields is prepended to the message; that is, the most recent set of resent fields appear earlier in the message. No other fields in the message are changed when resent fields are added.

Each of the resent fields corresponds to a particular field elsewhere in the syntax. For instance, the "Resent-Date:" field corresponds to the "Date:" field and the "Resent-To:" field corresponds to the "To:" field. In each case, the syntax for the field body is identical to the syntax given previously for the corresponding field.

When resent fields are used, the "Resent-From:" and "Resent-Date:" fields MUST be sent. The "Resent-Message-ID:" field SHOULD be sent. "Resent-Sender:" SHOULD NOT be used if "Resent-Sender:" would be identical to
"Resent-From:".


```
resent-date     =       "Resent-Date:" date-time CRLF

resent-from     =       "Resent-From:" mailbox-list CRLF

resent-sender   =       "Resent-Sender:" mailbox CRLF

resent-to       =       "Resent-To:" address-list CRLF

resent-cc       =       "Resent-Cc:" address-list CRLF

resent-bcc      =       "Resent-Bcc:" (address-list / [CFWS]) CRLF

resent-msg-id   =       "Resent-Message-ID:" msg-id CRLF
```

Resent fields are used to identify a message as having been reintroduced into the transport system by a user. The purpose of using resent fields is to have the message appear to the final recipient as if it were sent directly by the original sender, with all of the original fields remaining the same. Each set of resent fields correspond to a particular resending event. That is, if a message is resent
multiple times, each set of resent fields gives
identifying information for each individual time. Resent fields are strictly informational. They MUST NOT be used in the normal processing of replies or other such automatic actions on messages.

Note: Reintroducing a message into the transport system and using resent fields is a different operation from "forwarding". "Forwarding" has two meanings: One sense of forwarding is that a mail

reading program can be told by a user to forward a copy of a message to another person, making the forwarded message the body of the new message. A forwarded message in this sense does not appear to have come from the original sender, but is an entirely new message from the forwarder of the message. On the other hand, forwarding is also used to mean when a mail transport program gets a message and forwards it on to a different destination for final delivery. Resent header fields are not intended for use with either type of forwarding.

The resent originator fields indicate the mailbox of the person(s) or system(s) that resent the message. As with the regular originator fields, there are two forms: a simple "Resent-From:" form which contains the mailbox of the individual doing the resending, and the more complex form, when one individual (identified in the "Resent-Sender:" field) resends a message on behalf of one or more others (identified in the "Resent-From:" field).

Note: When replying to a resent message, replies behave just as they would with any other message, using the original "From:",

"Reply-To:", "Message-ID:", and other fields. The resent fields are only informational and MUST NOT be used in the normal processing of replies.

The "Resent-Date:" indicates the date and time at which the resent message is dispatched by the resender of the message. Like the "Date:" field, it is not the date and time that the message was actually transported.

The "Resent-To:", "Resent-Cc:", and "Resent-Bcc:" fields function identically to the "To:", "Cc:", and "Bcc:" fields respectively, except that they indicate the recipients of the resent message, not the recipients of the original message.

The "Resent-Message-ID:" field provides a unique identifier for the resent message.

3.6.7. Trace fields

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The trace fields are a group of header fields consisting of an optional "Return-Path:" field, and one or more "Received:" fields. The "Return-Path:" header field contains a pair of angle brackets that enclose an optional addr-spec. The "Received:" field contains a (possibly empty) list of name/value pairs followed by a semicolon and a date-time specification. The first item of the name/value pair is defined by item-name, and the second item is either an addr-spec, an atom, a domain, or a msg-id. Further restrictions may be applied to the syntax of the trace fields by standards that provide for their use, such as [RFC2821].

```
trace          =      [return]
                   1*received

return         =      "Return-Path:" path CRLF

path           =      ([CFWS] "<" ([CFWS] / addr-spec) ">" [CFWS]) /
                   obs-path

received       =      "Received:" name-val-list ";" date-time CRLF

name-val-list  =      [CFWS] [name-val-pair *(CFWS name-val-pair)]

name-val-pair  =      item-name CFWS item-value

item-name      =      ALPHA *(["-"] (ALPHA / DIGIT))

item-value     =      1*angle-addr / addr-spec /
                   atom / domain / msg-id
```


A full discussion of the Internet mail use of trace fields is contained in [RFC2821]. For the purposes of this standard, the trace fields are strictly informational, and any formal interpretation of them is outside of the scope of this document.

3.6.8. Optional fields

Fields may appear in messages that are otherwise unspecified in this

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standard. They MUST conform to the syntax of an optional-field. This is a field name, made up of the printable US-ASCII characters except SP and colon, followed by a colon, followed by any text which conforms to unstructured.

The field names of any optional-field MUST NOT be identical to any field name specified elsewhere in this standard.

```
optional-field  =      field-name ":" unstructured CRLF

field-name      =      1*ftext

ftext           =      %d33-57 /              ; Any character except
                       %d59-126               ;  controls, SP, and
                                              ;  ":".
```

For the purposes of this standard, any optional field is uninterpreted.

4. Obsolete Syntax

Earlier versions of this standard allowed for different (usually more liberal) syntax than is allowed in this version. Also, there have been syntactic elements used in messages on the Internet whose interpretation have never been documented. Though some of these syntactic forms MUST NOT be generated according to the grammar in section 3, they MUST be accepted and parsed by a conformant receiver. This section documents many of these syntactic elements. Taking the grammar in section 3 and adding the definitions presented in this section will result in the grammar to use for interpretation of messages.

Note: This section identifies syntactic forms that any implementation MUST reasonably interpret. However, there are certainly Internet messages which do not conform to even the additional syntax given in this section. The fact that a particular form does not appear in any section of this document is not justification for computer programs to crash or for malformed data to be irretrievably lost by any implementation. To repeat an example, though this document requires lines in messages to be no longer than 998 characters, silently

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discarding the 999th and subsequent characters in a line without warning would still be bad behavior for an implementation. It is up to the implementation to deal with messages robustly.

One important difference between the obsolete (interpreting) and the current (generating) syntax is that in structured header field bodies (i.e., between the colon and the CRLF of any structured header field), white space characters, including folding white space, and comments can be freely inserted between any syntactic tokens. This allows many complex forms that have proven difficult for some implementations to parse.

Another key difference between the obsolete and the current syntax is that the rule in section 3.2.3 regarding lines composed entirely of white space in comments and folding white space does not apply. See the discussion of folding white space in section 4.2 below.

Finally, certain characters that were formerly allowed in messages appear in this section. The NUL character (ASCII value 0) was once allowed, but is no longer for compatibility reasons. CR and LF were allowed to appear in messages other than as CRLF; this use is also shown here.

Other differences in syntax and semantics are noted in the following sections.

4.1. Miscellaneous obsolete tokens

These syntactic elements are used elsewhere in the obsolete syntax or in the main syntax. The obs-char and obs-qp elements each add ASCII value 0. Bare CR and bare LF are added to obs-text and obs-utext. The period character is added to obs-phrase. The obs-phrase-list provides for "empty" elements in a comma-separated list of phrases.

Note: The "period" (or "full stop") character (".") in obs-phrase is not a form that was allowed in earlier versions of this or any other standard. Period (nor any other character from specials) was not allowed in phrase because it introduced a parsing difficulty distinguishing between phrases and portions of an addr-spec (see section 4.4). It appears here because the period character is currently used in many messages in the display-name portion of addresses, especially for initials in names, and therefore must be interpreted properly. In the future, period may appear in the regular syntax of phrase.

```
obs-qp          =       "\" (%d0-127)
```

obs-text = *LF *CR *(obs-char *LF *CR)

obs-char = %d0-9
/ %d11 / ; %d0-127 except CR and
%d12 / %d14-127 ; LF

obs-utext = obs-text

obs-phrase = word *(word / "." / CFWS)

obs-phrase-list = phrase / 1*([phrase] [CFWS] "," [CFWS]) [phrase]

Bare CR and bare LF appear in messages with two different meanings. In many cases, bare CR or bare LF are used improperly instead of CRLF to indicate line separators. In other cases, bare CR and bare LF are used simply as ASCII control characters with their traditional ASCII meanings.

4.2. Obsolete folding white space

In the obsolete syntax, any amount of folding white space MAY be inserted where the obs-FWS rule is allowed. This creates the possibility of having two consecutive "folds" in a line, and therefore the possibility that a line which makes up a folded header field could be composed entirely of white space.

obs-FWS = 1*WSP *(CRLF 1*WSP)

4.3. Obsolete Date and Time

The syntax for the obsolete date format allows a 2 digit year in the date field and allows for a list of alphabetic time zone specifications that were used in earlier versions of this standard. It also permits comments and folding white space between many of the tokens.

obs-day-of-week = [CFWS] day-name [CFWS]

obs-year = [CFWS] 2*DIGIT [CFWS]

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```
obs-month      =      CFWS month-name CFWS

obs-day        =      [CFWS] 1*2DIGIT [CFWS]

obs-hour       =      [CFWS] 2DIGIT [CFWS]

obs-minute     =      [CFWS] 2DIGIT [CFWS]

obs-second     =      [CFWS] 2DIGIT [CFWS]

obs-zone       =      "UT" / "GMT" /          ; Universal Time
```



```
                                  ; North American UT
                                  ; offsets
                 "EST" / "EDT" /
  ; Eastern:  - 5/ - 4
                 "CST" / "CDT" /         ; Central:  - 6/ - 5
                 "MST" / "MDT" /         ; Mountain: - 7/ - 6
                 "PST" / "PDT" /         ; Pacific:  - 8/ - 7

                 %d65-73 /               ; Military zones - "A"
                 %d75-90 /               ; through "I" and "K"
                 %d97-105 /              ; through "Z", both
                 %d107-122               ; upper and lower case
```

Where a two or three digit year occurs in a date, the year is to be interpreted as follows: If a two digit year is encountered whose value is between 00 and 49, the year is interpreted by adding 2000, ending up with a value between 2000 and 2049. If a two digit year is encountered with a value between 50 and 99, or any three digit year is encountered, the year is interpreted by adding 1900.

In the obsolete time zone, "UT" and "GMT" are indications of "Universal
Time" and "Greenwich Mean Time" respectively and are both semantically identical to "+0000".

The remaining three character zones are the US time zones. The first letter, "E", "C", "M", or "P" stands for "Eastern", "Central", "Mountain" and "Pacific". The second letter is either "S" for

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"Standard" time, or "D" for "Daylight" (or summer) time. Their interpretations are as follows:

EDT is semantically equivalent to -0400
EST is semantically equivalent to -0500
CDT is semantically equivalent to -0500
CST is semantically equivalent to -0600
MDT is semantically equivalent to -0600
MST is semantically equivalent to -0700
PDT is semantically equivalent to -0700
PST is semantically equivalent to -0800

The 1 character military time zones were defined in a non-standard way in [RFC822] and are therefore unpredictable in their meaning. The original definitions of the military zones "A" through "I" are equivalent to "+0100" through "+0900" respectively; "K", "L", and "M" are equivalent to "+1000", "+1100", and "+1200" respectively; "N" through "Y" are equivalent to "-0100" through "-1200" respectively; and "Z" is equivalent to "+0000". However, because of the error in [RFC822], they SHOULD all be considered equivalent to "-0000" unless there is out-of-band information confirming their meaning.

Other multi-character (usually between 3 and 5) alphabetic time zones have been used in Internet messages. Any such time zone whose meaning is not known SHOULD be considered equivalent to "-0000" unless there is out-of-band information confirming their meaning.

4.4. Obsolete Addressing

There are three primary differences in addressing. First, mailbox addresses were allowed to have a route portion before the addr-spec when enclosed in "<" and ">". The route is simply a comma-separated list of domain names, each preceded by "@", and the list terminated by a colon. Second, CFWS were allowed between the period-separated elements of local-part and domain (i.e., dot-atom was not used). In addition, local-part is allowed to contain quoted-string in addition to just atom. Finally, mailbox-list and address-list were allowed to have "null" members. That is, there could be two or more commas in

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such a list with nothing in between them.

```
obs-angle-addr  =       [CFWS] "<" [obs-route] addr-spec ">" [CFWS]

obs-route       =       [CFWS] obs-domain-list ":" [CFWS]

obs-domain-list =       "@" domain *(*(CFWS / "," ) [CFWS] "@" domain)

obs-local-part  =       word *("." word)

obs-domain      =       atom *("." atom)

obs-mbox-list   =       1*([mailbox] [CFWS] "," [CFWS]) [mailbox]

obs-addr-list   =       1*([address] [CFWS] "," [CFWS]) [address]
```

When interpreting addresses, the route portion SHOULD be ignored.

4.5. Obsolete header fields

Syntactically, the primary difference in the obsolete field syntax is that it allows multiple occurrences of any of the fields and they may occur in any order. Also, any amount of white space is allowed before the ":" at the end of the field name.

```
obs-fields      =       *(obs-return /
                        obs-received /
                        obs-orig-date /
                        obs-from /
                        obs-sender /
                        obs-reply-to /
                        obs-to /
```



```
                        obs-cc /
                        obs-bcc /
                        obs-message-id /
                        obs-in-reply-to /
                        obs-references /
                        obs-subject /
                        obs-comments /
```

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```
            obs-keywords /
                  obs-resent-date /
                  obs-resent-from /
                  obs-resent-send /
                  obs-resent-rply /
                  obs-resent-to /
                  obs-resent-cc /
                  obs-resent-bcc /
                  obs-resent-mid /
                  obs-optional)
```

Except for destination address fields (described in section 4.5.3), the interpretation of multiple occurrences of fields is unspecified. Also, the interpretation of trace fields and resent fields which do not occur in blocks prepended to the message is unspecified as well. Unless otherwise noted in the following sections, interpretation of other fields is identical to the interpretation of their non-obsolete counterparts in section 3.

4.5.1. Obsolete origination date field

```
obs-orig-date   =      "Date" *WSP ":" date-time CRLF
```

4.5.2. Obsolete originator fields

```
obs-from
     =      "From" *WSP ":" mailbox-list CRLF

obs-sender     =      "Sender" *WSP ":" mailbox CRLF

obs-reply-to    =      "Reply-To" *WSP ":" mailbox-list CRLF
```

4.5.3. Obsolete destination address fields

```
obs-to         =      "To" *WSP ":" address-list CRLF

obs-cc         =      "Cc" *WSP ":" address-list CRLF

obs-bcc        =      "Bcc" *WSP ":" (address-list / [CFWS]) CRLF
```


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When multiple occurrences of destination address fields occur in a message, they SHOULD be treated as if the address-list in the first occurrence of the field is combined with the address lists of the subsequent occurrences by adding a comma and concatenating.

4.5.4. Obsolete identification fields

The obsolete "In-Reply-To:" and "References:" fields differ from the current syntax in that they allow phrase (words or quoted strings) to
appear. The obsolete forms of the left and right sides of msg-id allow interspersed CFWS, making them syntactically identical to local-part and domain respectively.

```
obs-message-id  =       "Message-ID" *WSP ":" msg-id CRLF

obs-in-reply-to =       "In-Reply-To" *WSP ":" *(phrase / msg-id) CRLF

obs-references  =       "References" *WSP ":" *(phrase / msg-id) CRLF

obs-id-left     =       local-part

obs-id-right    =       domain
```

For purposes of interpretation, the phrases in the "In-Reply-To:" and "References:" fields are ignored.

Semantically, none of the optional CFWS surrounding the local-part and the domain are part of the obs-id-left and obs-id-right respectively.

4.5.5. Obsolete informational fields

```
obs-subject     =       "Subject" *WSP ":" unstructured CRLF

obs-comments    =       "Comments" *WSP ":" unstructured CRLF

obs-keywords    =       "Keywords" *WSP ":" obs-phrase-list CRLF
```

4.5.6. Obsolete resent fields

The obsolete syntax adds
a "Resent-Reply-To:" field, which consists
of the field name, the optional comments and folding white space, the colon, and a comma separated list of addresses.

obs-resent-from = "Resent-From" *WSP ":" mailbox-list CRLF

obs-resent-send = "Resent-Sender" *WSP ":" mailbox CRLF

obs-resent-date = "Resent-Date" *WSP ":" date-time CRLF

obs-resent-to = "Resent-To" *WSP ":" address-list CRLF

obs-resent-cc = "Resent-Cc" *WSP ":" address-list CRLF

obs-resent-bcc = "Resent-Bcc" *WSP ":"
(address-list / [CFWS]) CRLF

obs-resent-mid = "Resent-Message-ID" *WSP ":" msg-id CRLF

obs-resent-rply = "Resent-Reply-To" *WSP ":" address-list CRLF

As with other resent fields, the "Resent-Reply-To:" field is to be treated as trace information only.

4.5.7. Obsolete trace fields

The obs-return and obs-received are again given here as template definitions, just as return and received are in section 3. Their full syntax is given in [RFC2821].

obs-return = "Return-Path" *WSP ":" path CRLF

obs-received = "Received" *WSP ":" name-val-list CRLF

obs-path = obs-angle-addr

4.5.8. Obsolete optional fields

obs-optional = field-name *WSP ":" unstructured CRLF

5. Security Considerations

Care needs to be taken when displaying messages on a terminal or terminal emulator. Powerful terminals may act on escape sequences and other combinations of ASCII control characters with a variety of consequences. They can remap the keyboard or permit other modifications to the terminal which could lead to denial of service or even damaged data. They can trigger (sometimes programmable) answerback messages which can allow a message to cause commands to be issued on the recipient's behalf.
They can also effect the operation
of terminal attached devices such as printers. Message viewers may wish to strip potentially dangerous terminal escape sequences from the message prior to display. However, other escape sequences appear in messages for useful purposes (cf. [RFC2045, RFC2046, RFC2047, RFC2048, RFC2049, ISO2022]) and therefore should not be stripped indiscriminately.

Transmission of non-text objects in messages raises additional security issues. These issues are discussed in [RFC2045, RFC2046, RFC2047, RFC2048, RFC2049].

Many implementations use the "Bcc:" (blind carbon copy) field described in section 3.6.3 to facilitate sending messages to recipients without revealing the addresses of one or more of the addressees to the other recipients. Mishandling this use of "Bcc:" has implications for confidential information that might be revealed, which could eventually lead to security problems through knowledge of even the existence of a particular mail address. For example, if using the first method described in section 3.6.3, where the "Bcc:" line is removed from the message, blind recipients have no explicit indication that they have been sent a blind copy, except insofar as their address does not appear in the message header. Because of this, one of the blind addressees could potentially send a reply to all of the shown recipients and accidentally reveal that the message went to the blind recipient. When the second method from section 3.6.3 is used, the blind recipient's address appears in the "Bcc:" field of a separate copy of the message. If the "Bcc:" field sent contains all of the blind addressees, all of the "Bcc:" recipients will be seen by each "Bcc:" recipient. Even if a separate message is sent to
each "Bcc:" recipient with only the individual's address, implementations still need to be careful to process replies to the

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message as per section 3.6.3 so as not to accidentally reveal the blind recipient to other recipients.

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Appendix A. Example messages

This section presents a selection of messages. These are intended to assist in the implementation of this standard, but should not be taken as normative; that is to say, although the examples in this section were carefully reviewed, if there happens to be a conflict between these examples and the syntax described in sections 3 and 4 of this document, the syntax in those sections is to be taken as correct.

Messages are delimited in this section between lines of "----". The "----" lines are not part of the message itself.

A.1. Addressing examples

The following are examples of messages that might be sent between two individuals.

A.1.1. A message from one person to another with simple addressing

This could be called a canonical message. It has a single author, John Doe, a single recipient, Mary Smith, a subject, the date, a message identifier, and a textual message in the body.

```
----
From: John
 Doe <jdoe@machine.example>
To: Mary Smith <mary@example.net>
Subject: Saying Hello
Date: Fri, 21 Nov 1997 09:55:06 -0600
Message-ID: <1234@local.machine.example>
```

This is a message just to say hello.
So, "Hello".

If John's secretary Michael actually sent the message, though John was the author and replies to this message should go back to him, the sender field would be used:

From: John Doe <jdoe@machine.example>
Sender: Michael Jones <mjones@machine.example>
To: Mary Smith <mary@example.net>
Subject: Saying Hello
Date: Fri, 21 Nov 1997 09:55:06 -0600
Message-ID: <1234@local.machine.example>

This is a message just to say hello.
So, "Hello".

A.1.2. Different types of mailboxes

This message includes multiple addresses in the destination fields and also uses several different forms of addresses.

From:

"Joe Q. Public" <john.q.public@example.com>
To: Mary Smith <mary@x.test>, jdoe@example.org, Who? <one@y.test>
Cc: <boss@nil.test>, "Giant; \"Big\" Box" <sysservices@example.net>
Date: Tue, 1 Jul 2003 10:52:37 +0200
Message-ID: <5678.21-Nov-1997@example.com>

Hi everyone.

Note that the display names for Joe Q. Public and Giant; "Big" Box needed to be enclosed in double-quotes because the former contains the period and the latter contains both semicolon and double-quote characters (the double-quote characters appearing as quoted-pair construct). Conversely, the display name for Who? could appear without them because the question mark is legal in an atom. Notice also that jdoe@example.org and boss@nil.test have no display names associated with them at all, and jdoe@example.org uses the simpler address form without the angle brackets.

A.1.3. Group addresses

From: Pete <pete@silly.example>
To: A Group:Chris Jones <c@a.test>,joe@where.test,John <jdoe@one.test>;
Cc: Undisclosed recipients:;
Date: Thu, 13 Feb 1969 23:32:54 -0330
Message-ID: <testabcd.1234@silly.example>

Testing.

In this message, the "To:" field has a single group recipient named A

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Group which contains 3 addresses, and a "Cc:" field with an empty group recipient named Undisclosed recipients.

A.2. Reply messages

The following is a series of three messages that make up a conversation thread between John and Mary. John firsts sends a message to Mary, Mary then replies to John's message, and then John replies to Mary's reply message.

Note especially the "Message-ID:", "References:", and "In-Reply-To:" fields in each message.

```
----
From: John Doe <jdoe@machine.example>
To: Mary Smith <mary@example.net>
Subject: Saying Hello
Date: Fri, 21 Nov 1997 09:55:06 -0600
Message-ID:
 <1234@local.machine.example>

This is a message just to say hello.
So, "Hello".
----
```


When sending replies, the Subject field is often retained, though prepended with "Re: " as described in section 3.6.5.

```
----
```

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From: Mary Smith <mary@example.net>
To: John Doe <jdoe@machine.example>
Reply-To: "Mary Smith: Personal Account" <smith@home.example>
Subject: Re: Saying Hello
Date: Fri, 21 Nov 1997 10:01:10 -0600
Message-ID: <3456@example.net>
In-Reply-To: <1234@local.machine.example>
References: <1234@local.machine.example>

This is a reply to your hello.

Note the "Reply-To:" field in the above message. When John replies to Mary's message above, the reply should go to the address in the "Reply-To:" field instead of the address in the "From:" field.

To: "Mary Smith: Personal Account" <smith@home.example>
From:
John Doe <jdoe@machine.example>
Subject: Re: Saying Hello
Date: Fri, 21 Nov 1997 11:00:00 -0600
Message-ID: <abcd.1234@local.machine.tld>
In-Reply-To: <3456@example.net>
References: <1234@local.machine.example> <3456@example.net>

This is a reply to your reply.

A.3. Resent messages

Start with the message that has been used as an example several times:

From: John Doe <jdoe@machine.example>
To: Mary Smith <mary@example.net>
Subject: Saying Hello
Date: Fri, 21 Nov 1997 09:55:06 -0600
Message-ID: <1234@local.machine.example>

This is a message just to say hello.
So, "Hello".

Say that Mary, upon receiving this message, wishes to send a copy of the message to Jane such that (a) the message would appear to have come straight from John; (b) if Jane replies to the message, the reply should
go back to John; and (c) all of the original
information, like the date the message was originally sent to Mary, the message identifier, and the original addressee, is preserved. In this case, resent fields are prepended to the message:

```
----
Resent-From: Mary Smith <mary@example.net>
Resent-To: Jane Brown <j-brown@other.example>
Resent-Date: Mon, 24 Nov 1997 14:22:01 -0800
Resent-Message-ID: <78910@example.net>
From: John Doe <jdoe@machine.example>
To: Mary Smith <mary@example.net>
Subject: Saying Hello
Date: Fri, 21 Nov 1997 09:55:06 -0600
Message-ID: <1234@local.machine.example>

This is a message just to say hello.
So, "Hello".
----
```

If Jane, in turn, wished to resend this message to another person, she would prepend her own set of resent header fields to the above and send that.

A.4. Messages
with trace fields

As messages are sent through the transport system as described in [RFC2821], trace fields are prepended to the message. The following is an example of what those trace fields might look like. Note that there is some folding white space in the first one since these lines can be long.

```
----
Received: from x.y.test
  by example.net
  via TCP
  with ESMTP
  id ABC12345
  for <mary@example.net>;  21 Nov 1997 10:05:43 -0600
Received: from machine.example by x.y.test; 21 Nov 1997 10:01:22 -0600
From: John Doe <jdoe@machine.example>
To: Mary Smith <mary@example.net>
Subject: Saying Hello
Date: Fri, 21 Nov 1997 09:55:06 -0600
Message-ID: <1234@local.machine.example>

This is a message just to say hello.
So, "Hello".
----
```

A.5. White space, comments, and other oddities

White space,
including folding white space, and comments can be
inserted between many of the tokens of fields. Taking the example
from A.1.3, white space and comments can be inserted into all of the
fields.

```
----
From: Pete(A wonderful \) chap) <pete(his account)@silly.test(his host)>
To:A Group(Some people)
   :Chris Jones <c@(Chris's host.)public.example>,
      joe@example.org,
 John <jdoe@one.test> (my dear friend); (the end of the group)
Cc:(Empty list)(start)Undisclosed recipients  :(nobody(that I know))  ;
Date: Thu,
     13
       Feb
         1969
     23:32
            -0330 (Newfoundland Time)
Message-ID:            <testabcd.1234@silly.test>

Testing.
----
```

The above example is aesthetically displeasing, but perfectly legal. Note particularly (1) the comments in the "From:" field (including one that has a ")" character appearing as part of a quoted-pair); (2) the white space absent after the ":" in the "To:" field as well as the comment and folding white space after the group name, the special character ("...") in the comment in Chris Jones's address, and the folding white space before and after "joe@example.org,"; (3) the multiple and nested comments in the "Cc:" field as well as the comment immediately following the ":" after "Cc"; (4) the folding white space (but no comments except at the end) and the missing seconds in the time of the date field; and (5) the white space before (but not within) the identifier in the "Message-ID:" field.

A.6. Obsoleted forms

The following are examples of obsolete (that is, the "MUST NOT generate") syntactic elements described in section 4 of this document.

A.6.1. Obsolete addressing

Note in the below example the lack of quotes around Joe Q. Public, the route that appears in the address for Mary Smith, the two commas that appear in the "To:" field, and the spaces that appear around the "." in the jdoe address.

```
----
From: Joe Q. Public <john.q.public@example.com>
To: Mary Smith <@machine.tld:mary@example.net>, , jdoe@test   . example
Date: Tue, 1 Jul 2003 10:52:37 +0200
Message-ID: <5678.21-Nov-1997@example.com>

Hi everyone.
```

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A.6.2. Obsolete dates

The following message uses an obsolete date format, including a non-numeric time zone and a two digit year. Note that although the day-of-week is missing, that is not specific to the obsolete syntax; it is optional in the current syntax as well.

From: John Doe <jdoe@machine.example>
To: Mary Smith <mary@example.net>
Subject: Saying Hello
Date: 21 Nov 97 09:55:06 GMT
Message-ID: <1234@local.machine.example>

This is a message just to say hello.
So, "Hello".

A.6.3. Obsolete white space and comments

White space and comments can appear between many more elements than in the current syntax. Also,
folding lines that are made up entirely
of white space are legal.

From : John Doe <jdoe@machine(comment). example>
To : Mary Smith
—
<mary@example.net>

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Subject : Saying Hello
Date : Fri, 21 Nov 1997 09(comment): 55 : 06 -0600
Message-ID : <1234 @ local(blah) .machine .example>

This is a message just to say hello.
So, "Hello".

Note especially the second line of the "To:" field. It starts with two space characters. (Note that "__" represent blank spaces.) Therefore, it is considered part of the folding as described in section 4.2. Also, the comments and white space throughout addresses, dates, and message identifiers are all part of the obsolete syntax.

Appendix B. Differences from earlier standards

This appendix contains a list of changes that have been made in the Internet Message Format from earlier standards, specifically [RFC822] and [STD3]. Items marked with an asterisk (*) below are items which appear in section 4 of this document and therefore can no longer be generated.

1. Period allowed in obsolete form of phrase.
2. ABNF moved out of document to [RFC2234].
3. Four or more digits allowed for year.
4. Header field ordering (and lack thereof) made explicit.
5. Encrypted header field removed.
6. Received syntax loosened to allow any token/value pair.
7. Specifically allow and give meaning to "-0000" time zone.
8. Folding white space is not allowed between every token.
9. Requirement for destinations removed.
10. Forwarding and resending redefined.
11. Extension header fields no longer specifically called out.
12. ASCII 0 (null) removed.*
13. Folding continuation lines cannot contain only white space.*
14. Free insertion of comments not allowed in date.*
15. Non-numeric time zones not allowed.*
16. Two digit years not allowed.*
17. Three digit years interpreted, but not allowed for generation.
18. Routes in addresses not allowed.*
19. CFWS within local-parts and domains not allowed.*
20. Empty members of address lists not allowed.*

21. Folding white space between field name and colon not allowed.*
22. Comments between field name and colon not allowed.
23. Tightened syntax of in-reply-to and references.*
24. CFWS within msg-id not allowed.*
25. Tightened semantics of resent fields as informational only.
26. Resent-Reply-To not allowed.*
27. No multiple occurrences of fields (except resent and received).*
28. Free CR and LF not allowed.*
29. Routes in return path not allowed.*
30. Line length limits specified.
31. Bcc more clearly specified.

Appendix C.
Notices

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* /opt/cola/permits/2308999132_1736194787.2494197/0/mikel-mail-2-3-1-0-g2cc19d5-tar-gz/mikel-mail-2cc19d5/reference/rfc2822 Internet Message Format.txt
No license file was found, but licenses were detected in source scan.

Network Working Group G. Vaudreuil
Request for Comments: 3462 Lucent Technologies
Obsoletes: 1892 January 2003
Category: Standards Track

The Multipart/Report Content Type for the Reporting of Mail System Administrative Messages

Status of this Memo

This document specifies an Internet standards track protocol for the Internet community, and requests discussion and suggestions for improvements. Please refer to the current edition of the "Internet Official Protocol Standards" (STD 1) for the standardization state and status of this protocol. Distribution of this memo is unlimited.

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Abstract

The Multipart/Report Multipurpose Internet Mail Extensions (MIME) content-type is a general "family" or "container" type for electronic mail reports of any kind. Although this memo defines only the use of the Multipart/Report content-type with respect to delivery status reports, mail processing programs will benefit if a single content-type is used to for all kinds of reports.

This document is part of a four document set describing the delivery status report service. This collection includes the Simple Mail Transfer Protocol (SMTP) extensions to request delivery status reports, a MIME content for the reporting of delivery reports, an enumeration of extended status codes, and a multipart container for the delivery report, the original message, and a human-friendly summary of the failure.

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Document Conventions

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT",

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"SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in BCP 14, RFC 2119 [RFC2119].

1. The Multipart/Report Content Type

The Multipart/Report MIME content-type is a general "family" or "container" type for electronic mail reports of any kind. Although this memo defines only the use of the Multipart/Report content-type with respect to delivery status reports, mail processing programs will benefit if a single content-type is used to for all kinds of reports.

The Multipart/Report content-type is defined as follows:

MIME type name: multipart
MIME subtype name: report
Required parameters: boundary, report-type
Optional parameters: none
Encoding considerations: 7bit should always be adequate
Security considerations: see section 3 of this memo

The syntax of Multipart/Report is identical to the Multipart/Mixed content type defined in [MIME]. When used to send a report, the Multipart/Report content-type must be the top-level MIME content type for any report message. The report-type parameter identifies the type of report. The parameter is the MIME content sub-type of the second body part of the Multipart/Report.

User agents and gateways must be able to automatically determine that a message is a mail system report and should be processed as such. Placing the Multipart/Report as the outermost content provides a mechanism whereby an auto-processor may detect through parsing the RFC 822 headers that the message is a report.

The Multipart/Report content-type contains either two or three sub-parts, in the following order:

1) [Required] The first body part contains human readable message.

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The purpose of this message is to provide an easily understood description of the condition(s) that caused the report to be generated, for a human reader who may not have a user agent capable of interpreting the second section of the Multipart/Report.

The text in the first section may be in any MIME standards-track content-type, charset, or language. Where a description of the error is desired in several languages or several media, a Multipart/Alternative construct may be used.

This body part may also be used to send detailed information that cannot be easily formatted into a Message/Report body part.

(2) [Required] A machine parsable body part containing an account of the reported message handling event. The purpose of this body part is to provide a machine-readable description of the condition(s) that caused the report to be generated, along with details not present in the first body part that may be useful to human experts. An initial body part, Message/delivery-status is defined in [DSN].

(3) [Optional] A body part containing the returned message or a portion thereof. This information may be useful to aid human experts in diagnosing problems. (Although it may also be useful to allow the sender to identify the message which the report was issued, it is hoped that the envelope-id and original-recipient-address returned in the Message/Report body part will replace the traditional use of the returned content for this purpose.)

Return of content may be wasteful of network bandwidth and a variety of implementation strategies can be used. Generally the sender should choose the appropriate strategy and inform the recipient of the required level of returned content required. In the absence of an explicit request for level of return of content such as that provided in [DRPT], the agent that generated the delivery service report should return the full message content.

When 8-bit or binary data not encoded in a 7 bit form is to be returned, and the return path is not guaranteed to be 8-bit or binary capable, two options are available. The original message MAY be re-encoded into a legal 7-bit MIME message or the Text/RFC822-Headers content-type MAY be used to return only the original message headers.

2. The Text/RFC822-Headers content-type

The Text/RFC822-Headers MIME content-type provides a mechanism to label and return only the RFC 822 headers of a failed message. These headers are not the complete message and should not be returned as a Message/RFC822. The returned headers are useful for identifying the failed message and for diagnostics based on the received lines.

The Text/RFC822-Headers content-type is defined as follows:

MIME type name: Text
MIME subtype name: RFC822-Headers
Required parameters: None
Optional parameters: None
Encoding considerations: 7 bit is sufficient for normal RFC822 headers, however, if the headers are broken and require encoding to make them legal 7 bit content, they may be encoded in quoted-printable.
Security considerations: See section 3 of this memo.

The Text/RFC822-Headers body part should contain all the RFC822 header lines from the message which caused the report. The RFC822 headers include all lines prior to the blank line in the message. They include the MIME-Version and MIME Content-Headers.

3. Security Considerations

Automated use of report types without authentication presents several security issues. Forging negative reports presents the opportunity for denial-of-service attacks when the reports are used for automated maintenance of directories or mailing lists. Forging positive reports may cause the sender to incorrectly believe a message was delivered when it was not.

A signature covering the entire multipart/report structure could be used to prevent such forgeries; such a signature scheme is, however, beyond the scope of this document.

4. Normative References

[SMTP] Postel, J., "Simple Mail Transfer Protocol", STD 10, RFC 821, August 1982.

[DSN] Moore, K., and G. Vaudreuil, "An Extensible Message Format for Delivery Status Notifications", RFC 3464, January 2003.

[RFC822] Crocker, D., "Standard for the format of ARPA Internet Text Messages", STD 11, RFC 822, August 1982.

[MIME] Borenstein, N. and N. Freed, "Multipurpose Internet Mail Extensions (MIME) Part Two: Media Types", RFC 2046, November 1996.

[DRPT] Moore, K., "SMTP Service Extension for Delivery Status Notifications", RFC 3461, January 2003.

[RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119, March 1997.

Appendix A - Changes from RFC 1892

Changed Authors contact information

Updated required standards boilerplate

Edited the text to make it spell-checker and grammar checker compliant

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Acknowledgement

Funding for the RFC Editor function is currently provided by the Internet Society.

Found in path(s):
* /opt/cola/permits/2308999132_1736194787.2494197/0/mikel-mail-2-3-1-0-g2cc19d5-tar-gz/mikel-mail-2cc19d5/reference/rfc3462 Reporting of Mail System Administrative Messages.txt
No license file was found, but licenses were detected in source scan.

Category: Standards Track March 1997

Content-ID and Message-ID Uniform Resource Locators

Status of this Memo

This document specifies an Internet standards track protocol for the Internet community, and requests discussion and suggestions for improvements. Please refer to the current edition of the "Internet Official Protocol Standards" (STD 1) for the standardization state and status of this protocol. Distribution of this memo is unlimited.

Abstract

The Uniform Resource Locator (URL) schemes, "cid:" and "mid:" allow references to messages and the body parts of messages. For example, within a single multipart message, one HTML body part might include embedded references to other parts of the same message.

1. Introduction

The use of [MIME] within email to convey Web pages and their associated images requires a URL scheme to permit the HTML to refer to the images or other data included in the message. The Content-ID Uniform Resource Locator, "cid:", serves that purpose.

Similarly Net News readers use Message-IDs to link related messages together. The Message-ID URL provides a scheme, "mid:", to refer to such messages as a "resource".

The "mid" (Message-ID) and "cid" (Content-ID) URL schemes provide identifiers for messages and their body parts. The "mid" scheme uses (a part of) the message-id of an email message to refer to a specific message. The "cid" scheme refers to a specific body part of a message; its use is generally limited to references to other body parts in the same message as the referring body part. The "mid" scheme may also refer to a specific body part within a designated message, by including the content-ID's address.

A note on terminology. The terms "body part" and "MIME entity" are used interchangeably. They refer to the headers and body of a MIME message, either the message itself or one of the body parts contained in a Multipart message.

2. The MID and CID URL Schemes

RFC1738 [URL] reserves the "mid" and "cid" schemes for Message-ID and Content-ID respectively. This memorandum defines the syntax for those URLs. Because they use the same syntactic elements they are presented together.

The URLs take the form

```
content-id    = url-addr-spec

message-id    = url-addr-spec

url-addr-spec = addr-spec  ; URL encoding of RFC 822 addr-spec

cid-url       = "cid" ":" content-id

mid-url       = "mid" ":" message-id [ "/" content-id ]
```

Note: in Internet mail messages, the addr-spec in a Content-ID [MIME] or Message-ID [822] header are enclosed in angle brackets (<>). Since addr-spec in a Message-ID or Content-ID might contain characters not allowed within a URL; any such character (including "/", which is reserved within the "mid" scheme) must be hex-encoded using the %hh escape mechanism in [URL].

A "mid" URL with only a "message-id" refers to an entire message. With the appended "content-id", it refers to a body part within a message, as does a "cid" URL. The Content-ID of a MIME body part is required to be globally unique. However, in many systems that store messages, body parts are not indexed independently their context (message). The "mid" URL long form was designed to supply the context needed to support interoperability with such systems.

A implementation conforming to this specification is required to support the "mid" URL long form (message-id/content-id). Conforming implementations can choose to, but are not required to, take advantage of the content-id's uniqueness and interpret a "cid" URL to

refer to any body part within the message store.

In limited circumstances (e.g., within multipart/alternate), a single message may contain several body parts that have the same Content-ID. That occurs, for example, when identical data can be accessed through different methods [MIME, sect. 7.2.3]. In those cases, conforming implementations are required to use the rules of the containing MIME entity (e.g., multi-part/alternate) to select the body part to which the Content-ID refers.

A "cid" URL is converted to the corresponding Content-ID message header [MIME] by removing the "cid:" prefix, converting %hh hex-escaped characters to their ASCII equivalents and enclosing the remaining parts with an angle bracket pair, "<" and ">". For example, "mid:foo4%25foo1@bar.net" corresponds to

Message-ID: <foo4%foo1@bar.net>

A "mid" URL is converted to a Message-ID or Message-ID/Content-ID pair in a similar fashion.

Both message-id and content-id are required to be globally unique. That is, no two different messages will ever have the same Message-ID addr-spec; no different body parts will ever have the same Content-ID addr-spec. A common technique used by many message systems is to use a time and date stamp along with the local host's domain name, e.g., 950124.162336@XIson.com.

Some Examples

The following message contains an HTML body part that refers to an image contained in another body part. Both body parts are contained in a Multipart/Related MIME entity. The HTML IMG tag contains a cidurl which points to the image.

From: foo1@bar.net
To: foo2@bar.net
Subject: A simple example
Mime-Version:

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1.0

```
Content-Type: multipart/related; boundary="boundary-example-1";
            type=Text/HTML

--boundary-example 1
Content-Type: Text/HTML; charset=US-ASCII

... text of the HTML document, which might contain a hyperlink
to the other body part, for example through a statement such as:
<IMG SRC="cid:foo4*foo1@bar.net" ALT="IETF logo">

--boundary-example-1
Content-ID: foo4*foo1@bar.net
Content-Type: IMAGE/GIF
Content-Transfer-Encoding: BASE64
```



```
R0lGODlhGAGgAPEAAP/////ZRaCgoAAAACH+PUNvcHlyaWdodCAoQykgMTk5
NSBJRVRGLiBVbmF1dGhvcml6ZWQgZHVwbGljYXRpb24gcHJvaGliaXRlZC4A
etc...

--boundary-example-1--
```

The following message points to another message (hopefully still in the recipient's message store).

```
From: bar@none.com
To: phooey@all.com
 Subject: Here's how to do it
Content-type: text/html; charset=usascii

...  The items in my
<A HREF= "mid:960830.1639@XIson.com/partA.960830.1639@XIson.com">
previous message</A>, shows how the approach you propose can be
used to accomplish ...
```

3. Security Considerations

The URLs defined here provide an addressing or referencing mechanism. The values of these URLs disclose no more about the originators environment than the corresponding Message-ID and Content-ID values. Where concern exists about such disclosures the originator of a message using mid and cid URLs must take precautions to insure that confidential information is not disclosed. Those precautions should already be in place to handle existing mail use of the Message-ID and Content-ID.

4. References

[822] Crocker, D., "Standard for the Format of ARPA Internet Text Messages," August 1982, University of Delaware, STD 11, RFC 822.

[MIME] N. Borenstein, N. Freed, "MIME (Multipurpose Internet Mail Extensions) Part One: Mechanisms for Specifying and Describing the Format of Internet Message Bodies," September 1993, RFC 1521.

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[MULREL] E. Levinson, "The MIME Multipart/Related Content-type," December 1995, RFC 1874.

5. Acknowledgments

The original concept of "mid" and "cid" URLs were part of the Tim Berners-Lee's original vision of the World Wide Web. The ideas and design have benefited greatly by discussions with Harald Alvestrand, Dan Connolly, Roy Fielding, Larry Masinter, Jacob Palme, and others in the MHTML working group.

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Found in path(s):
* /opt/cola/permits/2308999132_1736194787.2494197/0/mikel-mail-2-3-1-0-g2cc19d5-tar-gz/mikel-mail-2cc19d5/reference/rfc2111 Content-ID and Message-ID URLs.txt
No license file was found, but licenses were detected in source scan.

Network Working Group
Request for Comments: 2231
Updates: 2045, 2047, 2183
Obsoletes: 2184
Category: Standards Track

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November 1997

MIME Parameter Value and Encoded Word Extensions: Character Sets, Languages, and Continuations

Status of this Memo

This document specifies an Internet standards track protocol for the Internet community, and requests discussion and suggestions for improvements. Please refer to the current edition of the "Internet Official Protocol Standards" (STD 1) for the standardization state and status of this protocol. Distribution of this memo is unlimited.

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1. Abstract

This memo defines extensions to the RFC 2045 media type and RFC 2183 disposition parameter value mechanisms to provide

(1) a means to specify parameter values in character sets other than US-ASCII,

(2) to specify the language to be used should the value be displayed, and

(3) a continuation mechanism for long parameter values to avoid problems with header line wrapping.

This memo also defines an extension to the encoded words defined in RFC 2047 to allow the specification of the language to be used for display as well as the character set.

2. Introduction

The Multipurpose Internet Mail Extensions, or MIME [RFC-2045, RFC-2046, RFC-2047, RFC-2048, RFC-2049], define a message format that allows for:

(1) textual message bodies in character sets other than US-ASCII,

(2) non-textual message bodies,

(3) multi-part message bodies, and

(4) textual header information in character sets other than US-ASCII.

MIME is now widely deployed and is used by a variety of Internet protocols, including, of course, Internet email. However, MIME's success has resulted in the need for additional mechanisms that were not provided in the original protocol specification.

In particular, existing MIME mechanisms provide for named media type (content-type field) parameters as well as named disposition (content-disposition field). A MIME media type may specify any number of parameters associated with all of its subtypes, and any specific subtype may specify additional parameters for its own use. A MIME disposition value may specify any number of associated parameters, the most important of which is probably the attachment disposition's filename parameter.

These parameter names and values end up appearing in the content-type and content-disposition header fields in Internet email. This inherently imposes three crucial limitations:

(1) Lines in Internet email header fields are folded according to RFC 822 folding rules. This makes long parameter values problematic.

(2) MIME headers, like the RFC 822 headers they often appear in, are limited to 7bit US-ASCII, and the encoded-word mechanisms of RFC 2047 are not available to parameter values. This makes it impossible to have parameter values in character sets other than US-ASCII

without specifying some sort of private per-parameter encoding.

(3) It has recently become clear that character set information is not sufficient to properly display some sorts of information -- language information is also needed [RFC-2130]. For example, support for handicapped users may require reading text string

aloud. The language the text is written in is needed for this to be done correctly. Some parameter values may need to be displayed, hence there is a need to allow for the inclusion of language information.

The last problem on this list is also an issue for the encoded words defined by RFC 2047, as encoded words are intended primarily for display purposes.

This document defines extensions that address all of these limitations. All of these extensions are implemented in a fashion that is completely compatible at a syntactic level with existing MIME implementations. In addition, the extensions are designed to have as little impact as possible on existing uses of MIME.

IMPORTANT NOTE: These mechanisms end up being somewhat gibbous when they actually are used. As such, these mechanisms should not be used lightly; they should be reserved for situations where a real need for them exists.

2.1. Requirements notation

This document occasionally uses terms that appear in capital letters. When the terms "MUST", "SHOULD", "MUST NOT", "SHOULD NOT", and "MAY" appear capitalized, they are being used to indicate particular requirements of this specification. A discussion of the meanings of these terms appears in [RFC- 2119].

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3. Parameter Value Continuations

Long MIME media type or disposition parameter values do not interact well with header line wrapping conventions. In particular, proper header line wrapping depends on there being places where linear whitespace (LWSP) is allowed, which may or may not be present in a parameter value, and even if present may not be recognizable as such since specific knowledge of parameter value syntax may not be available to the agent doing the line wrapping. The result is that long parameter values may end up getting truncated or otherwise damaged by incorrect line wrapping implementations.

A mechanism is therefore needed to break up parameter values into smaller units that are amenable to line wrapping. Any such mechanism MUST be compatible with existing MIME processors. This means that

(1) the mechanism MUST NOT change the syntax of MIME media type and disposition lines, and

(2) the mechanism MUST NOT depend on parameter ordering since MIME states that parameters are not order sensitive. Note that while MIME does prohibit modification of MIME headers during transport, it is still possible that parameters will be reordered when user agent level processing is done.

The obvious solution, then, is to use multiple parameters to contain a single parameter value and to use some kind of distinguished name to indicate when this is being done. And this obvious solution is exactly what is specified here: The asterisk character ("*") followed by a decimal count is employed to indicate that multiple parameters are being used to encapsulate a single parameter value. The count starts at 0 and increments by 1 for each subsequent section of the parameter value. Decimal values are used and neither leading zeroes nor gaps in the sequence are allowed.

The original parameter value is recovered by concatenating the

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various sections of the parameter, in order. For example, the content-type field

```
Content-Type: message/external-body; access-type=URL;
 URL*0="ftp://";
 URL*1="cs.utk.edu/pub/moore/bulk-mailer/bulk-mailer.tar"
```

is semantically identical to

```
Content-Type: message/external-body; access-type=URL;
  URL="ftp://cs.utk.edu/pub/moore/bulk-mailer/bulk-mailer.tar"
```

Note that quotes around parameter values are part of the value syntax; they are NOT part of the value itself. Furthermore, it is explicitly permitted to have a mixture of quoted and unquoted continuation fields.

4. Parameter Value Character Set and Language Information

Some parameter values may need to be qualified with character set or language information. It is clear that a distinguished parameter name is needed to identify when this information is present along with a specific syntax for the information in the value itself. In addition, a lightweight encoding mechanism is needed to accommodate 8 bit information in parameter values.

Asterisks ("*") are reused to provide the indicator that language and character set information is present and encoding is being used. A single quote ("") is used to delimit the character set and language information at the beginning of the parameter value. Percent signs ("%") are used as the encoding flag, which agrees with RFC 2047.

Specifically, an asterisk at the end of a parameter name acts as an indicator that character set and language information may appear at the beginning of the parameter value. A single quote is used to separate the character set, language, and actual value information in

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the parameter value string, and an percent sign is used to flag octets encoded in hexadecimal. For example:

```
Content-Type: application/x-stuff;
 title*=us-ascii'en-us'This%20is%20%2A%2A%2Afun%2A%2A%2A
```

Note that it is perfectly permissible to leave either the character set or language field blank. Note also that the single quote delimiters MUST be present even when one of the field values is omitted.
This is done when either character set, language, or both are not relevant to the parameter value at hand. This MUST NOT be done in order to indicate a default character set or language -- parameter field definitions MUST NOT assign a default character set or language.

4.1. Combining Character Set, Language, and Parameter Continuations

Character set and language information may be combined with the parameter continuation mechanism. For example:

```
Content-Type: application/x-stuff
 title*0*=us-ascii'en'This%20is%20even%20more%20
 title*1*=%2A%2A%2Afun%2A%2A%2A%20
 title*2="isn't it!"
```

Note that:

(1) Language and character set information only appear at the beginning of a given parameter value.

(2) Continuations do not provide a facility for using more than one character set or language in the same parameter value.

(3) A value presented using multiple continuations may contain a mixture of encoded and unencoded segments.

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(4) The first segment of a continuation MUST be encoded if language and character set information are given.

(5) If the first segment of a continued parameter value is encoded the language and character set field delimiters MUST be present even when the fields are left blank.

5. Language specification in Encoded Words

RFC 2047 provides support for non-US-ASCII character sets in RFC 822 message header comments, phrases, and any unstructured text field. This is done by defining an encoded word construct which can appear in any of these places. Given that these are fields intended for display, it is sometimes necessary to associate language information with encoded words as well as just the character set. This specification extends the definition of an encoded word to allow the inclusion of such information. This is simply done by suffixing the character set specification with an asterisk followed by the language tag. For example:

```
From: =?US-ASCII*EN?Q?Keith_Moore?= <moore@cs.utk.edu>
```

6. IMAP4 Handling of Parameter Values

IMAP4 [RFC-2060] servers SHOULD decode parameter value continuations when generating the BODY and BODYSTRUCTURE fetch attributes.

7. Modifications to MIME ABNF

The ABNF for MIME parameter values given in RFC 2045 is:

```
parameter := attribute "=" value

attribute := token
             ; Matching of attributes
             ; is ALWAYS case-insensitive.
```

This specification changes this ABNF to:

```
parameter := regular-parameter / extended-parameter

regular-parameter := regular-parameter-name "=" value

regular-parameter-name := attribute [section]

attribute := 1*attribute-char
```

```
attribute-char := <any (US-ASCII) CHAR except SPACE, CTLs,
                   "*", "'", "%", or tspecials>

section := initial-section / other-sections

initial-section := "*0"

other-sections := "*" ("1" / "2" / "3" / "4" / "5" /
                       "6" / "7" / "8" / "9") *DIGIT)

extended-parameter := (extended-initial-name "="
                       extended-value) /
                      (extended-other-names "="
                       extended-other-values)

extended-initial-name := attribute [initial-section] "*"

extended-other-names := attribute other-sections "*"

extended-initial-value := [charset] "'" [language] "'"
                          extended-other-values

extended-other-values := *(ext-octet / attribute-char)

ext-octet := "%" 2(DIGIT / "A" / "B" / "C" / "D" / "E" / "F")

charset := <registered character set name>

language
:= <registered language tag [RFC-1766]>
```

The ABNF given in RFC 2047 for encoded-words is:

```
encoded-word := "=?" charset "?" encoding "?" encoded-text "?="
```

This specification changes this ABNF to:

```
encoded-word := "=?" charset ["*" language] "?" encoded-text "?="
```

8. Character sets which allow specification of language

In the future it is likely that some character sets will provide facilities for inline language labeling. Such facilities are inherently more flexible than those defined here as they allow for language switching in the middle of a string.

If and when such facilities are developed they SHOULD be used in preference to the language labeling facilities specified here. Note that all the mechanisms defined here allow for the omission of language labels so as to be able to accommodate this possible future usage.

9. Security Considerations

This RFC does not discuss security issues and is not believed to raise any security issues not already endemic in electronic mail and present in fully conforming implementations of MIME.

10. References

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[RFC-1766]
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Network Working Group E. Levinson
Request for Comments: 2387 August 1998
Obsoletes: 2112
Category: Standards Track

The MIME Multipart/Related Content-type

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Abstract

The Multipart/Related content-type provides a common mechanism for representing objects that are aggregates of related MIME body parts. This document defines the Multipart/Related content-type and provides examples of its use.

1. Introduction

Several applications of MIME, including MIME-PEM, and MIME-Macintosh and other proposals, require multiple body parts that make sense only in the aggregate. The present approach to these compound objects has been to define specific multipart subtypes for each new object. In keeping with the MIME philosophy of having one mechanism to achieve the same goal for different purposes, this document describes a single mechanism for such aggregate or compound objects.

The Multipart/Related content-type addresses the MIME representation of compound objects. The object is categorized by a "type" parameter. Additional parameters are provided to indicate a specific starting body part or root and auxiliary information which may be required when unpacking or processing the object.

Multipart/Related MIME entities may contain Content-Disposition headers that provide suggestions for the storage and display of a

body part. Multipart/Related processing takes precedence over Content-Disposition; the interaction between them is discussed in section 4.

Responsibility for the display or processing of a Multipart/Related's constituent entities rests with the application that handles the compound object.

2. Multipart/Related Registration Information

The following form is copied from RFC 1590, Appendix A.

To: IANA@isi.edu
Subject: Registration of new Media Type content-type/subtype

Media Type name: Multipart

Media subtype name: Related

Required parameters: Type, a media type/subtype.

Optional parameters: Start
Start-info

Encoding considerations: Multipart content-types cannot have encodings.

Security considerations: Depends solely on the referenced type.

Published specification: RFC-REL (this document).

Person & email address to contact for further information:
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+1 908 494 1606
XIson@cnj.digex.net

3. Intended usage

The Multipart/Related media type is intended for compound objects

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consisting of several inter-related body parts. For a Multipart/Related object, proper display cannot be achieved by individually displaying the constituent body parts. The content-type of the Multipart/Related object is specified by the type parameter. The "start" parameter, if given, points, via a content-ID, to the body part that contains the object root. The default root is the first body part within the Multipart/Related body.

The relationships among the body parts of a compound object distinguishes it from other object types. These relationships are often represented by links internal to the object's components that

reference the other components. Within a single operating environment the links are often file names, such links may be represented within a MIME message using content-IDs or the value of some other "Content-" headers.

3.1. The Type Parameter

The type parameter must be specified and its value is the MIME media type of the "root" body part. It permits a MIME user agent to determine the content-type without reference to the enclosed body part. If the value of the type parameter and the root body part's content-type differ then the User Agent's behavior is undefined.

3.2. The Start Parameter

The start parameter, if given, is the content-ID of the compound object's "root". If not present the "root" is the first body part in the Multipart/Related entity. The "root" is the element the applications processes first.

3.3. The Start-Info Parameter

Additional information can be provided to an application by the start-info parameter. It contains either a string or points, via a content-ID, to another MIME entity in the message. A typical use might be to provide additional command line parameters or a MIME entity giving auxiliary information for processing the compound object.

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Applications that use Multipart/Related must specify the interpretation of start-info. User Agents shall provide the parameter's value to the processing application. Processes can distinguish a start-info reference from a token or quoted-string by examining the first non-white-space character, "<" indicates a reference.

3.4. Syntax

```
related-param   := [ ";"
"start" "=" cid ]
                [ ";" "start-info"  "="
                  ( cid-list / value ) ]
                [ ";" "type"  "=" type "/" subtype ]
                ; order independent

cid-list        := cid cid-list

cid             := msg-id     ; c.f. [822]
```



```
value           := token / quoted-string    ; c.f. [MIME]
                  ; value cannot begin with "<"
```

Note that the parameter values will usually require quoting. Msg-id contains the special characters "<", ">", "@", and perhaps other special characters. If msg-id contains quoted-strings, those quote marks must be escaped. Similarly, the type parameter contains the special character "/".

4. Handling Content-Disposition Headers

Content-Disposition Headers [DISP] suggest presentation styles for MIME body parts. [DISP] describes two presentation styles, called the disposition type, INLINE and ATTACHMENT. These, used within a multipart entity, allow the sender to suggest presentation information. [DISP] also provides for an optional storage (file) name. Content-Disposition headers could appear in one or more body parts contained within a Multipart/Related entity.

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Using Content-Disposition headers in addition to Multipart/Related provides presentation information to User Agents that do not recognize Multipart/Related. They will treat the multipart as Multipart/Mixed and they may find the Content-Disposition information useful.

With Multipart/Related however, the application processing the compound object determines the presentation style for all the contained parts. In that context the Content-Disposition header information is redundant or even misleading. Hence, User Agents that understand Multipart/Related shall ignore the disposition type within a Multipart/Related body part.

It may be possible for a User Agent capable of handling both Multipart/Related and Content-Disposition headers to provide the invoked application the Content-Disposition header's optional filename parameter to the Multipart/Related. The use of that information will depend on the specific application and should be specified when describing the handling of the corresponding compound object. Such descriptions would be appropriate in an RFC registering that object's media type.

5. Examples

5.1 Application/X-FixedRecord

The X-FixedRecord content-type consists of one or more octet-streams and a list of the lengths of each record. The root, which lists the record lengths of each record within the streams. The record length

list, type Application/X-FixedRecord, consists of a set of INTEGERs in ASCII format, one per line. Each INTEGER gives the number of octets from the octet-stream body part that constitute the next "record".

The example below, uses a single data block.

Content-Type: Multipart/Related; boundary=example-1

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```
        start="<950120.aaCC@XIson.com>";
        type="Application/X-FixedRecord"
        start-info="-o ps"

--example-1
Content-Type: Application/X-FixedRecord
Content-ID: <950120.aaCC@XIson.com>

25
10
34
10
25
21
26
10
--example-1
Content-Type: Application/octet-stream
Content-Description: The fixed length records
Content-Transfer-Encoding: base64
Content-ID: <950120.aaCB@XIson.com>

T2xkIE1hY0RvbmFsZCBoYWQgYSBmYXJtCkUgSS
BFIEkgTwpBbmQgb24gaGlzIGZhcm0gaGUgaGFk
IHNvbWUgZHVja3MKRSBJIEUgSSBPCldpdGggYS
BxdWFjayBxdWFjayBoZXJlLAphIHF1YWNrIHF1
YWNrIHRoZXJlLApldmVyeSB3aGVyZSBhIHF1YW
 NrIHF1YWNrCkUgSSBFIEkgTwo=

--example-1--
```


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5.2 Text/X-Okie

The Text/X-Okie is an invented markup language permitting the inclusion of images with text. A feature of this example is the inclusion of two additional body parts, both picture. They are referred to internally by the encapsulated document via each picture's body part content-ID. Usage of "cid:", as in this example, may be useful for a variety of compound objects. It is not, however, a part of the Multipart/Related specification.

```
Content-Type: Multipart/Related; boundary=example-2;
      start="<950118.AEBH@XIson.com>"
      type="Text/x-Okie"

--example-2
Content-Type: Text/x-Okie; charset=iso-8859-1;
      declaration="<950118.AEB0@XIson.com>"
Content-ID: <950118.AEBH@XIson.com>
 Content-Description: Document

{doc}
This picture was taken by an automatic camera mounted ...
{image file=cid:950118.AECB@XIson.com}
{para}
Now this is an enlargement of the area ...
{image file=cid:950118:AFDH@XIson.com}
{/doc}
--example-2
Content-Type: image/jpeg
Content-ID: <950118.AFDH@XIson.com>
Content-Transfer-Encoding: BASE64
Content-Description: Picture A

[encoded jpeg image]
--example-2
Content-Type: image/jpeg
Content-ID: <950118.AECB@XIson.com>
Content-Transfer-Encoding: BASE64
Content-Description: Picture B

[encoded jpeg image]
--example-2--
```

5.3 Content-Disposition

In the above example each image body part could also have a Content-Disposition header. For example,

```
--example-2
Content-Type:
image/jpeg
Content-ID: <950118.AECB@XIson.com>
Content-Transfer-Encoding: BASE64
Content-Description: Picture B
Content-Disposition: INLINE

[encoded jpeg image]
--example-2--
```

User Agents that recognize Multipart/Related will ignore the Content-Disposition header's disposition type. Other User Agents will process the Multipart/Related as Multipart/Mixed and may make use of that header's information.

6. User Agent Requirements

User agents that do not recognize Multipart/Related shall, in accordance with [MIME], treat the entire entity as Multipart/Mixed. MIME User Agents that do recognize Multipart/Related entities but are unable to process the given type should give the user the option of suppressing the entire Multipart/Related body part shall be.

Existing MIME-capable mail user agents (MUAs) handle the existing media types in a straightforward manner. For discrete media types (e.g. text, image, etc.) the body of the entity can be directly passed to a display process. Similarly the existing composite subtypes can be reduced to handing one or more discrete types. Handling Multipart/Related differs in that processing cannot be reduced to handling the individual entities.

The following sections discuss what information the processing application requires.

It is possible that an application specific "receiving agent" will manipulate the entities for display prior to invoking actual application process. Okie, above, is an example of this; it may need a receiving agent to parse the document and substitute local file

names for the originator's file names. Other applications may just require a table showing the correspondence between the local file names and the originator's. The receiving agent takes responsibility for such processing.

6.1 Data Requirements

MIME-capable mail user agents (MUAs) are required to provide the application:

(a) the bodies of the MIME entities and the entity Content-* headers,

(b) the parameters of the Multipart/Related Content-type header, and

(c) the correspondence between each body's local file name, that body's header data, and, if present, the body part's content-ID.

6.2 Storing Multipart/Related Entities

The Multipart/Related media type will be used for objects that have internal linkages between the body parts. When the objects are stored the linkages may require processing by the application or its receiving agent.

6.3 Recursion

MIME is a recursive structure. Hence one must expect a Multipart/Related entity to contain other Multipart/Related entities. When a Multipart/Related entity is being processed for display or storage, any enclosed Multipart/Related entities shall be processed as though
they were being stored.

6.4 Configuration Considerations

It is suggested that MUAs that use configuration mechanisms, see [CFG] for an example, refer to Multipart/Related as Multi-part/Related/<type>, were <type> is the value of the "type" parameter.

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7. Security Considerations

Security considerations relevant to Multipart/Related are identical to those of the underlying content-type.

8. Acknowledgments

This proposal is the result of conversations the author has had with many people. In particular, Harald A. Alvestrand, James Clark, Charles Goldfarb, Gary Houston, Ned Freed, Ray Moody, and Don Stinchfield, provided both encouragement and invaluable help. The author, however, take full responsibility for all errors contained in this document.

9. References

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10. Changes from previous draft (RFC 2112)

Corrected cid urls to conform to RFC 2111; the angle brackets were removed.

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package spec

import (
 "encoding/json"
 "testing"

 "github.com/stretchr/testify/assert"
)

var license = License{
 LicenseProps:     LicenseProps{Name: "the name", URL: "the url"},
 VendorExtensible: VendorExtensible{Extensions: map[string]interface{}{"x-license": "custom term"}}}

const licenseJSON = `{
 "name": "the name",
 "url": "the url",
 "x-license": "custom term"
}`

func TestIntegrationLicense(t
```

```
 *testing.T) {

 // const licenseYAML = "name: the name\nurl: the url\n"

 b, err := json.MarshalIndent(license, "", "\t")
 if assert.NoError(t, err) {
  assert.Equal(t, licenseJSON, string(b))
 }

 actual := License{}
 err = json.Unmarshal([]byte(licenseJSON), &actual)
 if assert.NoError(t, err) {
  assert.EqualValues(t, license, actual)
 }
}
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package spec

import (
 "encoding/json"

 "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 LicenseProps
 VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
 Name string `json:"name,omitempty"`
```

```
 URL  string `json:"url,omitempty"`
}

// UnmarshalJSON
 hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
 if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
  return err
 }
 return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
 b1, err := json.Marshal(l.LicenseProps)
 if err != nil {
  return nil, err
 }
 b2, err := json.Marshal(l.VendorExtensible)
 if err != nil {
  return nil, err
 }
 return swag.ConcatJSON(b1, b2), nil
}
```

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```
package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
 SevNewDefault  = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not
present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool
```

// The following statuses are used for selecting/filtering notifications
SevAll = "all" // show all statuses
)
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==========
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//
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 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
}
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==========
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==========
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1.3857 kubernetes-utils 0.0.0-20241104100929-3ea5e8cea738

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
```

```
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
 SevNewDefault  = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not
present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

 // The following statuses are used for selecting/filtering notifications
 SevAll = "all" // show all statuses
)
```

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==========
The common/types/pb/equal.go modification of proto.Equal logic
==========
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//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
}
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==========
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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

1.3861 x-term 0.0.0-20210615171337-6886f2dfbf5b

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1.3862 kustomize-api 0.18.0

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
```

```
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
 SevNewDefault  = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not
present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

 // The following statuses are used for selecting/filtering notifications
 SevAll = "all" // show all statuses
)
```

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==========
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==========
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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`

}
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procfs provides functions to retrieve system, kernel and process
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==========
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1.3871 python-pam 2.0.2

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1.3872 otel-trace 1.32.0

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1.3873 genproto-googleapis-rpc 0.0.0-20241104194629-dd2ea8efbc28

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1.3877 x-mod 0.22.0

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1.3878 typeurl 2.1.1

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1.3879 stargz-snapshotter-estargz 0.14.3

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1.3882 runtime-spec 1.1.0

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1.3884 cgroups 1.1.0

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1.3885 containerd-containerd-api 1.7.19

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localtime.go, localtime_test.go:

Originals:
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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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github.com/pelletier/go-toml:

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localtime.go, localtime_test.go:

Originals:
https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil.go
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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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1.3888 tar-split 0.11.3

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1.3889 ttrpc 1.2.5

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1.3890 promptui 0.9.0

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1.3891 continuity 0.4.2

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1.3892 gosmi 0.4.4

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1.3893 otel-exporters-otlp-otlpmetric-otlpmetricgrpc 1.28.0

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1.3894 go-compute-metadata 0.5.0

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package compute_test

import (
```

```
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
```

```
 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
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 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
```

```
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
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 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
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 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
```

```
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*computepb.LicensesListResponse)
 }
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
```

```
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test
```

```
import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
```

```
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
// protoc-gen-go v1.34.2
// protoc   v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

```
package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
```

```
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
```

```
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":           1,
  "WRITER":          2,
  "READER":          3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
```

```
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
```

```
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
```

```
 }
 return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
 0x0b, 0x67,
 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
 0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
 0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
```

```
 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
 0x64,
 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
 0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []any{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
```

```
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func
 file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:           file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:
```

```
        file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
 MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)
```

```
var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
```

```
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  SetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000
 * time.Millisecond),
  },
 }
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient
```

```
 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
```

```
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
```

```
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
```

```
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient
 = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }
```

```
 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf,
 err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
```

```
 }
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()),
 "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()
```

```
  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err
 := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and
 context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
```

```
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp);
 err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
```

```
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId",
 fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err !=
 nil {
   return err
  }
  defer httpRsp.Body.Close()
```

```
 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient)
 List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
```

```
 }
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, "", err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.Filter != nil {
  params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
 }
 if req != nil && req.MaxResults != nil {
  params.Add("maxResults",
fmt.Sprintf("%v", req.GetMaxResults()))
 }
 if req != nil && req.OrderBy != nil {
  params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req != nil && req.PageToken != nil {
  params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return
err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
```

```
    return err
   }

   buf, err := io.ReadAll(httpRsp.Body)
   if err != nil {
    return err
   }

   if err := unm.Unmarshal(buf, resp); err != nil {
    return err
   }

   return nil
  }, opts...)
  if e != nil {
   return nil, "", e
  }
  it.Response = resp
  return resp.GetItems(), resp.GetNextPageToken(), nil
 }

 fetch := func(pageSize int, pageToken string) (string, error) {
  items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
  if err != nil {
   return "", err
  }
  it.items = append(it.items, items...)
  return nextPageToken, nil
 }

 it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
 it.pageInfo.MaxSize = int(req.GetMaxResults())
 it.pageInfo.Token = req.GetPageToken()

 return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only
 by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }
```

```
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
```

```
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on
 the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type",
 "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
```

```
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return
nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}
```

1.3895 dig 1.17.1

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1.3896 contrib-instrumentation-google.golang.org-grpc-otelgrpc 0.53.0

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1.3900 otel-exporters-otlp-otlpmetric-otlpmetrichttp 1.28.0

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1.3901 google-cloud-go-auth 0.7.2

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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
```

```
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
```

```
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
```

```
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*computepb.LicensesListResponse)
 }
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
```

```
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.SetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
}
resp, err := c.SetIamPolicy(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
ctx := context.Background()
// This snippet has been automatically
generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
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 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
```

```
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.34.2
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)
```

```
// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32
```

```
const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
```

```
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
```

```
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
```

```
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
 0x0b, 0x67,
 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
 0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
 0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
```

```
 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
 0x64,
 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
 0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
```

```
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []any{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func
 file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
```

```
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:          file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:
        file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
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//     https://www.apache.org/licenses/LICENSE-2.0
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// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"
```

```
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
```

```
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  SetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000
 * time.Millisecond),
  },
 }
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
```

```
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}
```

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

```
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC
```

```
 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient
 = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
```

```
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf,
```

```
 err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()),
 "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
```

```
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err
:= unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
```

```
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and
 context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp);
 err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
```

```
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId",
 fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
```

```
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err !=
nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

func (c *licensesRESTClient)

```
List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
it := &LicenseIterator{}
req = proto.Clone(req).(*computepb.ListLicensesRequest)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
 resp := &computepb.LicensesListResponse{}
 if pageToken != "" {
  req.PageToken = proto.String(pageToken)
 }
 if pageSize > math.MaxInt32 {
  req.MaxResults = proto.Uint32(math.MaxInt32)
 } else if pageSize != 0 {
  req.MaxResults = proto.Uint32(uint32(pageSize))
 }
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, "", err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.Filter != nil {
  params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
 }
 if req != nil && req.MaxResults != nil {
  params.Add("maxResults",
fmt.Sprintf("%v", req.GetMaxResults()))
 }
 if req != nil && req.OrderBy != nil {
  params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req != nil && req.PageToken != nil {
  params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
```

```
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return
err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
```

```
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only
 by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
```

```
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on
 the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
```

```
 hds = append(hds, "Content-Type",
 "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return
 nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
```

1.3902 ragel-machinery 0.0.0-20190525184631-5f46317e436b

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1.3903 gorilla-mux 1.8.1

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1.3904 compose-go 1.20.2

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1.3905 otel-exporters-otlp-otlptrace-otlptracehttp 1.28.0

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1.3906 x-exp 0.0.0-20240506185415-9bf2ced13842

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1.3907 blackfriday 2.1.0

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1.3908 protobuf-go 1.34.2

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1.3909 protobuf-go 1.33.0

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1.3910 azure-sdk-for-go-sdk-resourcemanager-compute-armcompute 5.7.0

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// +build go1.18

```
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package fake

import (
 "context"
 "errors"
 "fmt"
 azfake "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake/server"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
 "net/http"
 "net/url"
 "regexp"
)

// LicensesServer is a fake server for instances of the armhybridcompute.LicensesClient type.
type LicensesServer struct {
 // BeginCreateOrUpdate is the fake for method LicensesClient.BeginCreateOrUpdate
 // HTTP status codes to indicate success:
 http.StatusOK
 BeginCreateOrUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
armhybridcompute.License, options *armhybridcompute.LicensesClientBeginCreateOrUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse], errResp
azfake.ErrorResponder)

 // BeginDelete is the fake for method LicensesClient.BeginDelete
 // HTTP status codes to indicate success: http.StatusOK, http.StatusNoContent
 BeginDelete func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientBeginDeleteOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse], errResp azfake.ErrorResponder)

 // Get is the fake for method LicensesClient.Get
 // HTTP status codes to indicate success: http.StatusOK
 Get func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientGetOptions) (resp
azfake.Responder[armhybridcompute.LicensesClientGetResponse],
 errResp azfake.ErrorResponder)

 // NewListByResourceGroupPager is the fake for method LicensesClient.NewListByResourceGroupPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListByResourceGroupPager func(resourceGroupName string, options
```

```
*armhybridcompute.LicensesClientListByResourceGroupOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse])

 // NewListBySubscriptionPager is the fake for method LicensesClient.NewListBySubscriptionPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListBySubscriptionPager func(options *armhybridcompute.LicensesClientListBySubscriptionOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse])

 // BeginUpdate is the fake for method LicensesClient.BeginUpdate
 // HTTP status codes to indicate success: http.StatusOK
 BeginUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
 armhybridcompute.LicenseUpdate, options *armhybridcompute.LicensesClientBeginUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse], errResp azfake.ErrorResponder)

 // BeginValidateLicense is the fake for method LicensesClient.BeginValidateLicense
 // HTTP status codes to indicate success: http.StatusOK
 BeginValidateLicense func(ctx context.Context, parameters armhybridcompute.License, options
*armhybridcompute.LicensesClientBeginValidateLicenseOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse], errResp
azfake.ErrorResponder)
}

// NewLicensesServerTransport creates a new instance of LicensesServerTransport with the provided
implementation.
// The returned LicensesServerTransport instance is connected to an instance of armhybridcompute.LicensesClient
via the
// azcore.ClientOptions.Transporter field in the client's constructor parameters.
func NewLicensesServerTransport(srv *LicensesServer) *LicensesServerTransport
 {
 return &LicensesServerTransport{
  srv:                    srv,
  beginCreateOrUpdate:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]](),
  beginDelete:            newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]](),
  newListByResourceGroupPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]](),
  newListBySubscriptionPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]](),
  beginUpdate:            newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]](),
  beginValidateLicense:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]](),
 }
}

// LicensesServerTransport connects instances of armhybridcompute.LicensesClient to instances of LicensesServer.
// Don't use this type directly, use NewLicensesServerTransport
 instead.
type LicensesServerTransport struct {
```

```
 srv                    *LicensesServer
 beginCreateOrUpdate
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]]
 beginDelete            *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]]
 newListByResourceGroupPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]]
 newListBySubscriptionPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]]
 beginUpdate            *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]]
 beginValidateLicense
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]]
}

// Do implements the policy.Transporter interface for LicensesServerTransport.
func (l *LicensesServerTransport) Do(req *http.Request) (*http.Response, error) {
 rawMethod := req.Context().Value(runtime.CtxAPINameKey{})
 method,
 ok := rawMethod.(string)
 if !ok {
  return nil, nonRetriableError{errors.New("unable to dispatch request, missing value for CtxAPINameKey")}
 }

 var resp *http.Response
 var err error

 switch method {
 case "LicensesClient.BeginCreateOrUpdate":
  resp, err = l.dispatchBeginCreateOrUpdate(req)
 case "LicensesClient.BeginDelete":
  resp, err = l.dispatchBeginDelete(req)
 case "LicensesClient.Get":
  resp, err = l.dispatchGet(req)
 case "LicensesClient.NewListByResourceGroupPager":
  resp, err = l.dispatchNewListByResourceGroupPager(req)
 case "LicensesClient.NewListBySubscriptionPager":
  resp, err = l.dispatchNewListBySubscriptionPager(req)
 case "LicensesClient.BeginUpdate":
  resp, err = l.dispatchBeginUpdate(req)
 case "LicensesClient.BeginValidateLicense":
  resp, err = l.dispatchBeginValidateLicense(req)
 default:
  err = fmt.Errorf("unhandled API %s", method)
 }

 if err != nil {
  return nil, err
 }
```

```
 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginCreateOrUpdate(req
 *http.Request) (*http.Response, error) {
 if l.srv.BeginCreateOrUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginCreateOrUpdate not implemented")}
 }
 beginCreateOrUpdate := l.beginCreateOrUpdate.get(req)
 if beginCreateOrUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return
 nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginCreateOrUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body,
nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginCreateOrUpdate = &respr
  l.beginCreateOrUpdate.add(req, beginCreateOrUpdate)
 }

 resp, err := server.PollerResponderNext(beginCreateOrUpdate, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginCreateOrUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
```

```
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginCreateOrUpdate) {
  l.beginCreateOrUpdate.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginDelete(req *http.Request) (*http.Response, error) {
 if l.srv.BeginDelete
 == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginDelete not implemented")}
 }
 beginDelete := l.beginDelete.get(req)
 if beginDelete == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginDelete(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
  if
 respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginDelete = &respr
  l.beginDelete.add(req, beginDelete)
 }

 resp, err := server.PollerResponderNext(beginDelete, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK, http.StatusNoContent}, resp.StatusCode) {
  l.beginDelete.remove(req)
```

```
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK,
http.StatusNoContent", resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginDelete) {
  l.beginDelete.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchGet(req *http.Request) (*http.Response, error) {
 if l.srv.Get == nil {
  return nil, &nonRetriableError{errors.New("fake for method Get not implemented")}
 }
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
 regex
 := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 3 {
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
  return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.Get(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 respContent := server.GetResponseContent(respr)
 if !contains([]int{http.StatusOK}, respContent.HTTPStatus) {
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
respContent.HTTPStatus)}
 }
 resp, err := server.MarshalResponseAsJSON(respContent,
 server.GetResponse(respr).License, req)
 if err != nil {
  return nil, err
 }
 return resp, nil
}
```

```
func (l *LicensesServerTransport) dispatchNewListByResourceGroupPager(req *http.Request) (*http.Response,
error) {
 if l.srv.NewListByResourceGroupPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListByResourceGroupPager not implemented")}
 }
 newListByResourceGroupPager := l.newListByResourceGroupPager.get(req)
 if newListByResourceGroupPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 2 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if
 err != nil {
   return nil, err
  }
  resp := l.srv.NewListByResourceGroupPager(resourceGroupNameParam, nil)
  newListByResourceGroupPager = &resp
  l.newListByResourceGroupPager.add(req, newListByResourceGroupPager)
  server.PagerResponderInjectNextLinks(newListByResourceGroupPager, req, func(page
*armhybridcompute.LicensesClientListByResourceGroupResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp, err := server.PagerResponderNext(newListByResourceGroupPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListByResourceGroupPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListByResourceGroupPager) {
  l.newListByResourceGroupPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListBySubscriptionPager(req *http.Request)
 (*http.Response, error) {
 if l.srv.NewListBySubscriptionPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListBySubscriptionPager not implemented")}
 }
```

```
 newListBySubscriptionPager := l.newListBySubscriptionPager.get(req)
 if newListBySubscriptionPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 1 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resp := l.srv.NewListBySubscriptionPager(nil)
  newListBySubscriptionPager = &resp
  l.newListBySubscriptionPager.add(req, newListBySubscriptionPager)
  server.PagerResponderInjectNextLinks(newListBySubscriptionPager, req, func(page
*armhybridcompute.LicensesClientListBySubscriptionResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp,
 err := server.PagerResponderNext(newListBySubscriptionPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListBySubscriptionPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListBySubscriptionPager) {
  l.newListBySubscriptionPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginUpdate(req *http.Request) (*http.Response, error) {
 if l.srv.BeginUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginUpdate not implemented")}
 }
 beginUpdate := l.beginUpdate.get(req)
 if beginUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex
 := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
```

```
 body, err := server.UnmarshalRequestAsJSON[armhybridcompute.LicenseUpdate](req)
 if err != nil {
  return nil, err
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
  return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.BeginUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 beginUpdate = &respr
 l.beginUpdate.add(req, beginUpdate)
}

resp, err := server.PollerResponderNext(beginUpdate, req)
if err != nil {
 return nil, err
}

if !contains([]int{http.StatusOK},
resp.StatusCode) {
 l.beginUpdate.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}
if !server.PollerResponderMore(beginUpdate) {
 l.beginUpdate.remove(req)
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginValidateLicense(req *http.Request) (*http.Response, error) {
 if l.srv.BeginValidateLicense == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginValidateLicense not implemented")}
 }
 beginValidateLicense := l.beginValidateLicense.get(req)
 if beginValidateLicense == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/validateLicense`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
```

```
 if matches == nil || len(matches) < 1 {
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 body,
err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.BeginValidateLicense(req.Context(), body, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 beginValidateLicense = &respr
 l.beginValidateLicense.add(req, beginValidateLicense)
}

resp, err := server.PollerResponderNext(beginValidateLicense, req)
if err != nil {
 return nil, err
}

if !contains([]int{http.StatusOK}, resp.StatusCode) {
 l.beginValidateLicense.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}
if !server.PollerResponderMore(beginValidateLicense) {
 l.beginValidateLicense.remove(req)
}

return resp, nil
}
```

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  SOFTWARE
//go:build go1.18
// +build go1.18

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// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package armhybridcompute

import (
 "context"
 "errors"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/arm"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/policy"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "net/http"
 "net/url"
 "strings"
)

// LicensesClient contains the methods for the Licenses group.
// Don't use this type directly, use NewLicensesClient() instead.
type LicensesClient struct {
 internal       *arm.Client
 subscriptionID string
}

// NewLicensesClient creates a new instance of LicensesClient with the specified values.
//   - subscriptionID - The ID of the target
 subscription.
//   - credential - used to authorize requests. Usually a credential from azidentity.
//   - options - pass nil to accept the default values.
func NewLicensesClient(subscriptionID string, credential azcore.TokenCredential, options *arm.ClientOptions)
(*LicensesClient, error) {
 cl, err := arm.NewClient(moduleName, moduleVersion, credential, options)
 if err != nil {
  return nil, err
 }
 client := &LicensesClient{
  subscriptionID: subscriptionID,
```

```
  internal:       cl,
 }
 return client, nil
}

// BeginCreateOrUpdate - The operation to create or update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - parameters - Parameters supplied to the Create license operation.
//   - options - LicensesClientBeginCreateOrUpdateOptions contains the optional parameters
 for the LicensesClient.BeginCreateOrUpdate
//     method.
func (client *LicensesClient) BeginCreateOrUpdate(ctx context.Context, resourceGroupName string, licenseName
string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions)
(*runtime.Poller[LicensesClientCreateOrUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.createOrUpdate(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// CreateOrUpdate - The operation to create or update a license.
// If the
 operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) createOrUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginCreateOrUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
```

```
 req, err := client.createOrUpdateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// createOrUpdateCreateRequest creates
 the CreateOrUpdate request.
func (client *LicensesClient) createOrUpdateCreateRequest(ctx context.Context, resourceGroupName string,
licenseName string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*policy.Request,
error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx,
 http.MethodPut, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
```

```
}

// BeginDelete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientBeginDeleteOptions contains the optional parameters for the
LicensesClient.BeginDelete method.
func (client *LicensesClient) BeginDelete(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*runtime.Poller[LicensesClientDeleteResponse],
 error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.deleteOperation(ctx, resourceGroupName, licenseName, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// Delete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) deleteOperation(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*http.Response, error) {
 var err error
 const
 operationName = "LicensesClient.BeginDelete"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.deleteCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
```

```
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK, http.StatusNoContent) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// deleteCreateRequest creates the Delete request.
func (client *LicensesClient) deleteCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientBeginDeleteOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodDelete, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// Get - Retrieves information about the view of a license.
//
 If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientGetOptions contains the optional parameters for the LicensesClient.Get method.
```

```
func (client *LicensesClient) Get(ctx context.Context, resourceGroupName string, licenseName string, options
*LicensesClientGetOptions) (LicensesClientGetResponse, error) {
 var err error
 const operationName = "LicensesClient.Get"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.getCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return LicensesClientGetResponse{}, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil
 {
  return LicensesClientGetResponse{}, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return LicensesClientGetResponse{}, err
 }
 resp, err := client.getHandleResponse(httpResp)
 return resp, err
}

// getCreateRequest creates the Get request.
func (client *LicensesClient) getCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientGetOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
 licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
```

```
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// getHandleResponse handles the Get response.
func (client *LicensesClient) getHandleResponse(resp *http.Response) (LicensesClientGetResponse, error) {
 result := LicensesClientGetResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.License); err != nil {
  return LicensesClientGetResponse{}, err
 }
 return result, nil
}

// NewListByResourceGroupPager - The operation to get all licenses of a non-Azure machine
//
// Generated from
 API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - options - LicensesClientListByResourceGroupOptions contains the optional parameters for the
LicensesClient.NewListByResourceGroupPager
//     method.
func (client *LicensesClient) NewListByResourceGroupPager(resourceGroupName string, options
*LicensesClientListByResourceGroupOptions) *runtime.Pager[LicensesClientListByResourceGroupResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListByResourceGroupResponse]{
  More: func(page LicensesClientListByResourceGroupResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListByResourceGroupResponse)
(LicensesClientListByResourceGroupResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListByResourceGroupPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp,
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listByResourceGroupCreateRequest(ctx, resourceGroupName, options)
   }, nil)
   if err != nil {
    return LicensesClientListByResourceGroupResponse{}, err
   }
   return client.listByResourceGroupHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
```

```
}

// listByResourceGroupCreateRequest creates the ListByResourceGroup request.
func (client *LicensesClient) listByResourceGroupCreateRequest(ctx context.Context, resourceGroupName string,
options *LicensesClientListByResourceGroupOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es"
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listByResourceGroupHandleResponse handles the ListByResourceGroup response.
func (client *LicensesClient) listByResourceGroupHandleResponse(resp *http.Response)
(LicensesClientListByResourceGroupResponse, error) {
 result := LicensesClientListByResourceGroupResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListByResourceGroupResponse{}, err
 }
 return
 result, nil
}

// NewListBySubscriptionPager - The operation to get all licenses of a non-Azure machine
//
// Generated from API version 2023-06-20-preview
//   - options - LicensesClientListBySubscriptionOptions contains the optional parameters for the
LicensesClient.NewListBySubscriptionPager
//     method.
func (client *LicensesClient) NewListBySubscriptionPager(options *LicensesClientListBySubscriptionOptions)
*runtime.Pager[LicensesClientListBySubscriptionResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListBySubscriptionResponse]{
```

```
  More: func(page LicensesClientListBySubscriptionResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListBySubscriptionResponse)
(LicensesClientListBySubscriptionResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListBySubscriptionPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp,
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listBySubscriptionCreateRequest(ctx, options)
   }, nil)
   if err != nil {
    return LicensesClientListBySubscriptionResponse{}, err
   }
   return client.listBySubscriptionHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listBySubscriptionCreateRequest creates the ListBySubscription request.
func (client *LicensesClient) listBySubscriptionCreateRequest(ctx context.Context, options
*LicensesClientListBySubscriptionOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/licenses"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet,
 runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listBySubscriptionHandleResponse handles the ListBySubscription response.
func (client *LicensesClient) listBySubscriptionHandleResponse(resp *http.Response)
(LicensesClientListBySubscriptionResponse, error) {
 result := LicensesClientListBySubscriptionResponse{}
```

```
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListBySubscriptionResponse{}, err
 }
 return result, nil
}

// BeginUpdate - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName
 - The name of the license.
//   - parameters - Parameters supplied to the Update license operation.
//   - options - LicensesClientBeginUpdateOptions contains the optional parameters for the
LicensesClient.BeginUpdate method.
func (client *LicensesClient) BeginUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions)
(*runtime.Poller[LicensesClientUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.update(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientUpdateResponse]{
   Tracer:
 client.internal.Tracer(),
  })
 }
}

// Update - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) update(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
```

```
 defer func() { endSpan(err) }()
 req, err := client.updateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return
 nil, err
 }
 return httpResp, nil
}

// updateCreateRequest creates the Update request.
func (client *LicensesClient) updateCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}",
 url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodPatch, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
```

```
}

// BeginValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - parameters - Parameters supplied to the license validation operation.
//   - options - LicensesClientBeginValidateLicenseOptions contains the optional parameters for the
LicensesClient.BeginValidateLicense
//     method.
func (client *LicensesClient) BeginValidateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions)
 (*runtime.Poller[LicensesClientValidateLicenseResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.validateLicense(ctx, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientValidateLicenseResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientValidateLicenseResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// ValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) validateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions)
 (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginValidateLicense"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.validateLicenseCreateRequest(ctx, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
```

```
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// validateLicenseCreateRequest creates the ValidateLicense request.
func (client *LicensesClient) validateLicenseCreateRequest(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/validateLicense"
 if client.subscriptionID
 == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodPost, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}
```

azwebpubsub

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```
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//go:build go1.18
// +build go1.18

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package armhybridcompute_test

import (
 "context"
 "log"

 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/azidentity"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
)

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_ValidateLicense.json
func ExampleLicensesClient_BeginValidateLicense() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err !=
 nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginValidateLicense(ctx, armhybridcompute.License{
  Location: to.Ptr("eastus2euap"),
  Properties: &armhybridcompute.LicenseProperties{
   LicenseDetails: &armhybridcompute.LicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
```

```
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err !=
 nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID: to.Ptr("/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/Licenses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](2),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //
   State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_CreateOrUpdate.json
func ExampleLicensesClient_BeginCreateOrUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginCreateOrUpdate(ctx, "myResourceGroup",
```

```
"{licenseName}", armhybridcompute.License{
 Location: to.Ptr("eastus2euap"),
 Properties: &armhybridcompute.LicenseProperties{
  LicenseDetails: &armhybridcompute.LicenseDetails{
   Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
   Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
   Processors: to.Ptr[int32](6),
   State:      to.Ptr(armhybridcompute.LicenseStateActivated),
   Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
  },
  LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 },
}, nil)
if err != nil {
 log.Fatalf("failed to finish the request: %v", err)
}
res, err := poller.PollUntilDone(ctx, nil)
if err != nil {
 log.Fatalf("failed to pull the result: %v", err)
}
// You could use response here. We use blank identifier for just demo purposes.
_ = res
// If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values
in the output are fake values for just demo purposes.
// res.License = armhybridcompute.License{
//  Name: to.Ptr("{licenseName}"),
//  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
//  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
//  Location: to.Ptr("eastus2euap"),
//  Properties: &armhybridcompute.LicenseProperties{
//   LicenseDetails: &armhybridcompute.LicenseDetails{
//    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
//    AssignedLicenses: to.Ptr[int32](2),
//    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//    ImmutableID: to.Ptr("<generated Guid>"),
//    Processors: to.Ptr[int32](6),
//    State: to.Ptr(armhybridcompute.LicenseStateActivated),
//    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//   },
//   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
//   TenantID: to.Ptr("{tenandId}"),
//  },
// }
}
```

```
// Generated
 from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_Update.json
func ExampleLicensesClient_BeginUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginUpdate(ctx, "myResourceGroup", "{licenseName}",
armhybridcompute.LicenseUpdate{
  Properties: &armhybridcompute.LicenseUpdateProperties{
   LicenseDetails: &armhybridcompute.LicenseUpdatePropertiesLicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors:
 to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/lice
nses/{licenseName}"),
 //
  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
```

```
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_Get.json
func ExampleLicensesClient_Get() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if
 err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 res, err := clientFactory.NewLicensesClient().Get(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //
  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
```

```
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_Delete.json
func ExampleLicensesClient_BeginDelete()
 {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginDelete(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 _, err = poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-
preview/examples/license/License_ListByResourceGroup.json
func ExampleLicensesClient_NewListByResourceGroupPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if
 err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
```

```
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListByResourceGroupPager("myResourceGroup", nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
   // You could use page here. We use blank identifier for just demo purposes.
   _ = v
  }
  // If the HTTP response code is 200 as defined in example definition, your page structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
  // page.LicensesListResult = armhybridcompute.LicensesListResult{
  //  Value: []*armhybridcompute.License{
  //   {
  //    Name: to.Ptr("{licenseName}"),
  //
   Type: to.Ptr("Microsoft.HybridCompute/licenses"),
  //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
  //    Location: to.Ptr("eastus2euap"),
  //    Properties: &armhybridcompute.LicenseProperties{
  //     LicenseDetails: &armhybridcompute.LicenseDetails{
  //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
  //      AssignedLicenses: to.Ptr[int32](8),
  //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
  //      ImmutableID: to.Ptr("<generated Guid>"),
  //      Processors: to.Ptr[int32](6),
  //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
  //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
  //     },
  //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  //     TenantID: to.Ptr("{tenandId}"),
  //    },
  //  }},
  // }
 }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-
preview/examples/license/License_ListBySubscription.json
```

```
func
 ExampleLicensesClient_NewListBySubscriptionPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListBySubscriptionPager(nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
   // You could use page here. We use blank identifier for just demo purposes.
   _ = v
  }
  // If the HTTP response code is 200 as defined in example definition, your page structure would look as
 follows. Please pay attention that all the values in the output are fake values for just demo purposes.
  // page.LicensesListResult = armhybridcompute.LicensesListResult{
  //  Value: []*armhybridcompute.License{
  //   {
  //    Name: to.Ptr("{licenseName}"),
  //    Type: to.Ptr("Microsoft.HybridCompute/licenses"),
  //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
  //    Location: to.Ptr("eastus2euap"),
  //    Properties: &armhybridcompute.LicenseProperties{
  //     LicenseDetails: &armhybridcompute.LicenseDetails{
  //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
  //      AssignedLicenses: to.Ptr[int32](8),
  //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
  //      ImmutableID: to.Ptr("<generated Guid>"),
  //      Processors: to.Ptr[int32](6),
  //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
  //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
  //
     },
  //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  //     TenantID: to.Ptr("{tenandId}"),
  //    },
  //  }},
  // }
```

}
}

1.3911 gorilla-websocket 1.5.3

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1.3912 azure-sdk-for-go-sdk-resourcemanager-network-armnetwork 4.3.0

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1.3913 contrib-propagators-b3 1.28.0

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1.3915 otel-sdk-metric 1.28.0

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1.3916 regexp 0.0.0-20240518133315-a468a5bfb3bc

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1.3917 ebpf 0.11.0

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1.3918 google-cloud-go-storage 1.43.0

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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
```

```
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
```

```
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_Insert()
{
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.InsertLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
}
op, err := c.Insert(ctx, req)
if err != nil {
 // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
```

```
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*computepb.LicensesListResponse)
 }
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
```

```
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.SetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
}
resp, err := c.SetIamPolicy(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
ctx := context.Background()
// This snippet has been automatically
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//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
```

```
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.34.2
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)
```

```
// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32
```

```
const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
```

```
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
```

```
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
```

```
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
 0x0b, 0x67,
 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
 0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
 0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
```

```
 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
 0x64,
 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
 0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
```

```
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []any{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func
 file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
```

```
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:          file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:
        file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"
```

```
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
```

```
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  SetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000
 * time.Millisecond),
  },
 }
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
```

```
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}
```

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

```
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC
```

```
 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient
 = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
```

```
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf,
```

```
 err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()),
 "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
```

```
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err
 := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
```

```
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and
 context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp);
 err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
```

```
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId",
 fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
```

```
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err !=
nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

func (c *licensesRESTClient)

```
List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
it := &LicenseIterator{}
req = proto.Clone(req).(*computepb.ListLicensesRequest)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
 resp := &computepb.LicensesListResponse{}
 if pageToken != "" {
  req.PageToken = proto.String(pageToken)
 }
 if pageSize > math.MaxInt32 {
  req.MaxResults = proto.Uint32(math.MaxInt32)
 } else if pageSize != 0 {
  req.MaxResults = proto.Uint32(uint32(pageSize))
 }
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, "", err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.Filter != nil {
  params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
 }
 if req != nil && req.MaxResults != nil {
  params.Add("maxResults",
fmt.Sprintf("%v", req.GetMaxResults()))
 }
 if req != nil && req.OrderBy != nil {
  params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req != nil && req.PageToken != nil {
  params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
```

```
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return
err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
```

```
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only
 by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
```

```
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on
 the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
```

```
 hds = append(hds, "Content-Type",
 "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return
 nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
```

1.3919 pytest 8.3.4

1.3919.1 Available under license :

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 OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.3920 aws-sdk-go-v2-feature-ec2-imds 1.14.11

1.3920.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
```

```
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil,
 err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
```

```
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err !=
 nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
```

```
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
```

AWS SDK for Go

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```
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
     - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
       with:
         python-version: ${{ matrix.python-version }}
     # ScanCode
     - name: Self-configure scancode
       working-directory: ./scancode-toolkit
       run: ./scancode --help
     - name: Run Scan code on target
       run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
     - name: Run Scan code on pr ref
       run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
```

```
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}
```

```
type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return
 err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckInLicense",
```

```
 }
}
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
      "type": "integer"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
      "type": "long"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The type of name to filter by.</p>"
          }
        },
        "Values": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
          "traits": {
            "smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
          }
        },
        "Operator": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
           "traits": {
            "smithy.api#documentation": "<p>An operator for filtering results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>A filter object that is used to return more specific results from a describe
operation.\n      Filters can be used to match a set of resources by specific criteria.</p>"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
```

```
        },
        "output": {

          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the Linux subscriptions service settings.</p>",
          "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/subscription/GetServiceSettings"
          },
          "smithy.api#idempotent": {}
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest":
{
        "type": "structure",
        "members": {}
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
          "LinuxSubscriptionsDiscovery": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
            "traits": {
              "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
            }
          },
          "LinuxSubscriptionsDiscoverySettings": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
            "traits": {
              "smithy.api#documentation": "<p>Lists the settings defined for Linux subscriptions discovery. The
settings include if\n      Organizations integration has been enabled, and
 which Regions data will be aggregated from.</p>"
            }
          },
```

"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
"type": "structure",
"members": {
"AmiId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The AMI ID used to launch the instance. "
}
},
"InstanceID": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The instance ID of the resource. "
}
},
"InstanceType": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The instance type of the resource. "
}

},
"AccountID": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " The account ID which owns the instance. "
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of the instance. "
}
},
"Region": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The Region the instance is running in. "
}
},
"UsageOperation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The usage operation of the instance. For more information, see For more information, see\n Usage\n operation values in the License Manager User Guide. "
}
},
"ProductCode": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
"traits": {
"smithy.api#documentation": " The product code for the instance. For more information, see Usage\n operation values in the License Manager User Guide . "
}
},
"LastUpdatedTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The time in which the last discovery updated the instance details. "
}
},
"SubscriptionName": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription being used by the instance. "
}
}
},
"traits": {
"smithy.api#documentation": " Details discovered information about a running instance using Linux

subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " An exception occurred with the service. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
"type": "service",
"version": "2018-05-10",
"operations": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
}
],

"traits": {
"aws.api#service": {
"sdkId": "License Manager Linux Subscriptions",
"arnNamespace": "license-manager-linux-subscriptions",
"cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
},
"aws.auth#sigv4": {
"name": "license-manager-linux-subscriptions"
},

"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",

"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"
]
},
"smithy.api#documentation": " With License Manager, you can discover and track your commercial Linux subscriptions on running\n Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager Linux Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",

"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}
},
"rules": [
{
"conditions": [
{
"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
]
}
],
"type": "tree",
"rules": [
{

"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
},
true
]
}
],
"error": "Invalid Configuration: FIPS and custom endpoint are not supported",
"type": "error"
},
{
"conditions": [],
"type": "tree",
"rules": [

```
                {

            "conditions": [
                    {
                      "fn": "booleanEquals",
                      "argv": [
                        {
                          "ref": "UseDualStack"
                        },
                        true
                      ]
                    }
                  ],
                  "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                  "type": "error"
                },
                {
                  "conditions": [],

          "endpoint": {
                    "url": {
                      "ref": "Endpoint"
                    },
                    "properties": {},
                    "headers": {}
                  },
                  "type": "endpoint"
                }
              ]
            }
          ]
        },
        {
          "conditions": [],
          "type": "tree",
          "rules": [
            {
              "conditions": [
                {
                  "fn": "isSet",

"argv": [
                    {
                      "ref": "Region"
                    }
                  ]
                }
              ],
```

```
                    "type": "tree",
                    "rules": [
                      {
                        "conditions": [
                          {
                            "fn": "aws.partition",
                            "argv": [
                              {
                                "ref": "Region"
                              }
                            ],

"assign": "PartitionResult"
                          }
                        ],
                        "type": "tree",
                        "rules": [
                          {
                            "conditions": [
                              {
                                "fn": "booleanEquals",
                                "argv": [
                                  {
                                    "ref": "UseFIPS"
                                  },
                                  true
                                ]
                              },

                    {
                                "fn": "booleanEquals",
                                "argv": [
                                  {
                                    "ref": "UseDualStack"
                                  },
                                  true
                                ]
                              }
                            ],
                            "type": "tree",
                            "rules": [
                              {
                                "conditions": [
                                  {

                               "fn": "booleanEquals",
                                    "argv": [
                                      true,
```

```
                                        {
                                            "fn": "getAttr",
                                            "argv": [
                                                {
                                                    "ref": "PartitionResult"
                                                },
                                                "supportsFIPS"
                                            ]

        }
                                        ]
                                    },
                                    {
                                        "fn": "booleanEquals",
                                        "argv": [
                                            true,
                                            {
                                                "fn": "getAttr",
                                                "argv": [
                                                    {
                                                        "ref": "PartitionResult"
                                                    },

                                         "supportsDualStack"
                                                ]
                                            }
                                        ]
                                    }
                                ],
                                "type": "tree",
                                "rules": [
                                    {
                                        "conditions": [],
                                        "type": "tree",
                                        "rules": [
                                            {

                                "conditions": [],
                                                "endpoint": {
                                                    "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                                    "properties": {},
                                                    "headers": {}
                                                },
                                                "type": "endpoint"
                                            }
                                        ]
                                    }
```

```
                    ]

                },
                    {
                        "conditions": [],
                        "error": "FIPS and DualStack are enabled, but this partition does not support one or both",
                        "type": "error"
                    }
                ]
            },
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {

"ref": "UseFIPS"
                            },
                            true
                        ]
                    }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    true,

{
                                        "fn": "getAttr",
                                        "argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },
                                            "supportsFIPS"
                                        ]
                                    }
                                ]
                            }
                        ],
                        "type": "tree",
```

```
                    "rules": [
                        {
                            "conditions": [],
                            "type": "tree",
                            "rules": [
                                {
                                    "conditions": [],
                                    "endpoint": {
                                        "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                                        "properties": {},
                                        "headers": {}

                                    },
                                    "type": "endpoint"
                                }
                            ]
                        }
                    ]
                },
                {
                    "conditions": [],
                    "error": "FIPS is enabled but this partition does not support FIPS",
                    "type": "error"
                }
            ]

    },
                {
                    "conditions": [
                        {
                            "fn": "booleanEquals",
                            "argv": [
                                {
                                    "ref": "UseDualStack"
                                },
                                true
                            ]
                        }
                    ],
                    "type": "tree",
                    "rules": [
                        {

                     "conditions": [
                        {
                            "fn": "booleanEquals",
                            "argv": [
```

```
                    true,
                    {
                        "fn": "getAttr",
                        "argv": [
                            {
                                "ref": "PartitionResult"
                            },
                            "supportsDualStack"
                        ]
                    }
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [],

                    "endpoint": {
                            "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                            "properties": {},
                            "headers": {}
                        },
                        "type": "endpoint"
                    }
                ]
            }
        ]
    },

{
        "conditions": [],
        "error": "DualStack is enabled but this partition does not support DualStack",
        "type": "error"
    }
  ]
},
{
  "conditions": [],
  "type": "tree",
  "rules": [
    {
        "conditions": [],
```

"endpoint": {
"url":
"https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
}
]
}
]
},
{
"conditions": [],
"error": "Invalid Configuration: Missing Region",
"type": "error"
}
]
}
]
},
"smithy.rules#endpointTests": {
"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {

"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",

"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {

"url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {

"url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint":
{
"url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
}

```
        },
        {
          "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
          "expect": {
            "endpoint":
{
              "url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
            }
          },
          "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
             "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
          "expect": {
            "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
          },
          "params": {
            "Region": "us-iso-east-1",
```

"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{

"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {

"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",

"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {

"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",

"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,

"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true,

"Endpoint": "https://example.com"
}
},
{
"documentation": "Missing region",
"expect": {
"error": "Invalid Configuration: Missing Region"
}

}
],
"version": "1.0"
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "Enabled",
"value": "Enabled",
"documentation": "Enabled LinuxSubscriptionsDiscovery"
},
{
"name": "Disabled",
"value": "Disabled",
"documentation": "Disabled LinuxSubscriptionsDiscovery"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
"type": "structure",
"members": {
"SourceRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Regions in which to discover data for Linux subscriptions. ",
"smithy.api#required": {}
}
},
"OrganizationIntegration": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
"traits": {
"smithy.api#documentation": " Details if you have enabled resource discovery across your accounts in Organizations. ",

"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Lists the settings defined for discovering Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
"type":
"operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the running Amazon EC2 instances that were discovered with
commercial Linux\n subscriptions. ",
"smithy.api#http": {

"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptionInstances"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Instances"
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
"type": "structure",

"members": {
"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n match, or don't match a certain Amazon Machine Image (AMI) ID. \n The valid names for this filter are: \n \n \n \n <code>AmiID</code>\n \n \n \n \n <code>InstanceID</code>\n \n \n \n \n <code>AccountID</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Region</code>\n \n \n \n \n <code>UsageOperation</code>\n \n \n \n \n <code>ProductCode</code>\n \n \n \n \n <code>InstanceType</code>\n \n \n \n The valid Operators for this filter are: \n \n \n \n <code>contains</code>\n \n \n \n \n <code>equals</code>\n \n \n \n \n <code>Notequal</code>\n \n \n "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "

}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. ",
"smithy.api#length": {
"min": 1,
"max": 16384
}
}
}
},
"traits": {
"smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
"type": "structure",
"members": {
"Instances": {

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
"traits": {
"smithy.api#documentation":
" An array that contains instance objects. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions that have been discovered. If you have linked your\n organization, the returned results will include data aggregated across your accounts in\n Organizations. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptions"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Subscriptions"

```
            }

        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by the name of\n
 <code>Subscription</code> with an optional operator to see subscriptions that match,\n      partially match, or don't
match a certain subscription's name.</p>\n         <p>The valid names for this filter are:</p>\n         <ul>\n
<li>\n              <p>\n                  <code>Subscription</code>\n              </p>\n           </li>\n         </ul>\n
<p>The valid Operators for this filter are:</p>\n
        <ul>\n           <li>\n              <p>\n                  <code>contains</code>\n              </p>\n           </li>\n
<li>\n              <p>\n                  <code>equals</code>\n              </p>\n           </li>\n           <li>\n              <p>\n
             <code>Notequal</code>\n              </p>\n           </li>\n         </ul>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>",
                    "smithy.api#length": {

                        "min": 1,
                        "max": 16384
                    }
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
        "type": "structure",
        "members": {
            "Subscriptions": {
```

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
"traits": {
"smithy.api#documentation": " An array that contains subscription objects. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for
the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "EQUAL",
"value": "Equal",
"documentation": "Equal operator"
},
{
"name": "NOT_EQUAL",
"value": "NotEqual",
"documentation": "Not equal operator"
},
{
"name": "CONTAINS",
"value": "Contains",
"documentation": "Contains operator"
}
],
"smithy.api#length": {
"min": 1,
"max": 20
}
}
},

"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "Enabled",
"value": "Enabled",

"documentation": "Enabled OrganizationIntegration"
},
{
"name": "Disabled",
"value": "Disabled",
"documentation": "Disabled OrganizationIntegration"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
"type": "list",
"member": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
"type": "string",
"traits": {
"smithy.api#enum": [

{
"name": "InProgress",
"value": "InProgress",
"documentation": "InProgress status"
},
{
"name": "Completed",
"value": "Completed",
"documentation": "Completed status"
},
{
"name": "Successful",
"value": "Successful",
"documentation": "Successful status"
},
{
"name": "Failed",
"value": "Failed",
"documentation": "Failed status"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
"type": "list",
"member": {
"target": "smithy.api#String",

"traits":
{
"smithy.api#length": {
"min": 1,
"max": 100
}
}
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
},
"smithy.api#uniqueItems": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
"type": "map",
"key": {
"target": "smithy.api#String"
},
"value": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
"type": "structure",
"members": {
"Name": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription. "

}
},
"Type": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own\n Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the\n Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS. "
}
},
"InstanceCount": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
"traits": {
"smithy.api#documentation": " The total amount of running instances using this subscription. "

```
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>An object which details a discovered Linux
subscription.</p>"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The request was denied due to request throttling.</p>",
          "smithy.api#error": "client"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
        },

      "output": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Updates the service settings for Linux subscriptions.</p>",
```

"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/UpdateServiceSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest":
{
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Describes if the discovery of Linux subscriptions is enabled. ",
"smithy.api#required": {}
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The
settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated
from. ",

"smithy.api#required": {}
}
},
"AllowUpdate": {
"target": "smithy.api#Boolean",
"traits": {
"smithy.api#documentation": " Describes if updates are allowed to the service settings for Linux
subscriptions. If you\n allow updates, you can aggregate Linux subscription data in more than one home
Region. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},

"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The provided input is not valid. Try your request again. ",
"smithy.api#error": "client"
}
}
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - Beneficiary
 //   - ProductSKU
 //   - Fingerprint
 //
   - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string
```

```
 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if
 err := addProtocolFinalizerMiddlewares(stack, options, "ListLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
```

```
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}
```

```
func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
     ServiceID,
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 //
 This member is required.
 LicenseType types.LicenseType
```

```
 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack,
 options, "DisassociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
```

```
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
```

```
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource
 Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil
 {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
```

```
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack);
err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier
 that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
```

```
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
```

```
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return
err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide
 to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
```

```
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity
 *types.DatetimeRange

 // Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
```

```
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
 return fmt.Errorf("add
protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName:
 "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
```

```
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
```

```
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return
err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
```

```
 if err = addOpGetLicenseValidationMiddleware(stack);
 err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "GetLicense",
 }
}
```

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(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
```

```
//
  - ProductSKU
//   - Status
//   - Fingerprint
//   - IssuerName
//   - Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
 return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
middleware.After)
if err != nil {
 return err
}
```

```
if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack);
err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
```

```
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
 }
}
```

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{
"smithy": "2.0",
"shapes": {

"com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " You don't have sufficient access to perform this action. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
"type": "structure",
"members": {
"DirectoryId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The directory ID for an Active Directory identity provider. "
}
}
},
"traits": {
"smithy.api#documentation":
" Details about an Active Directory identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"

```
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Associates the user to an EC2 instance to utilize user-based
subscriptions.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related
costs will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing
status) in Amazon Web Services Billing. For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n
        monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/AssociateUser"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the
 EC2 instance, which provides user-based subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>The identity provider of the user.</p>",
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"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
"type": "integer"
},
"com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request couldn't be completed because it conflicted with the current state of the\n resource. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deregisters the identity provider from providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/DeregisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",

```
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
    "type": "structure",
    "members": {
        "IdentityProviderSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
            "traits": {
                "smithy.api#documentation":
"<p>Metadata that describes the results of an identity provider operation.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
    },
    "errors": [
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            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
         },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
```

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Disassociates the user from an EC2 instance providing user-based
subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/DisassociateUser"
            },
            "smithy.api#idempotent": {}
        }

    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation":
 "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
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"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
}
},

"com.amazonaws.licensemanagerusersubscriptions#Filter": {
"type": "structure",
"members": {
"Attribute": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of an attribute to use as a filter. "
}
},
"Operation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of search (For example, eq, geq, leq) "
}
},
"Value": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Value of the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter name and value pair that is used
to return more specific results from a describe\n operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n attributes, or IDs. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
"type": "union",

"members": {
"ActiveDirectoryIdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
"traits": {
"smithy.api#documentation": " An object that details an Active Directory identity provider. "
}
}
},
"traits": {
"smithy.api#documentation":
" Details about an identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " An object that details the registered identity providers product
related configuration\n settings such as the subnets to provision VPC endpoints. ",
"smithy.api#required":
{}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of an identity provider. ",
"smithy.api#required": {}
}
},
"FailureMessage": {
"target": "smithy.api#String",

```
                "traits": {
                    "smithy.api#documentation": "<p>The failure message associated with an identity provider.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
 "<p>Describes an identity provider.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status
 of an EC2 instance resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "Products": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>A list of provided user-based subscription products.</p>",
                    "smithy.api#required": {}
                }
            },
            "LastStatusCheckDate": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The date of the last status check.</p>"
                }
            },
```

"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for an EC2 instance. "
}

}
},
"traits": {
"smithy.api#documentation": " Describes an EC2 instance providing user-based subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits":
{
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a user associated with an EC2 instance. ",

"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for users of an EC2 instance. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"AssociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was associated with an EC2 instance. "
}
},
"DisassociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was disassociated from an EC2 instance. "
}
}

},
"traits": {
"smithy.api#documentation": " Describes users of an EC2 instance providing user-based subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {

"smithy.api#documentation": " An exception occurred with the service. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
"type": "service",

"version": "2018-05-10",
"operations": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
}
],
"traits": {
"aws.api#service": {
"sdkId": "License Manager User Subscriptions",
"arnNamespace": "license-manager-user-subscriptions",

"cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
},
"aws.auth#sigv4": {
"name": "license-manager-user-subscriptions"
},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",
"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"

]
},
"smithy.api#documentation": " With License Manager, you can create user-based subscriptions to utilize licensed software with\n a per user subscription fee on Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager User Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack

endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}

},
"rules": [
{
"conditions": [
{
"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
]
}
],
"type": "tree",
"rules": [
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
},

true
]
}
],
"error": "Invalid Configuration: FIPS and custom endpoint are not supported",
"type": "error"

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            },
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                        "fn": "booleanEquals",
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                            },
                            true
                        ]
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"error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                "type": "error"
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                "conditions": [],
                "endpoint": {
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                        "ref": "Endpoint"
                    },
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
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    },
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{
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                ]
            }
        ],
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        "rules": [
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                "conditions": [
                    {
                        "fn": "aws.partition",
```

```
                "argv": [
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                    "ref": "Region"
                  }
                ],
                "assign": "PartitionResult"
              }
            ],
            "type": "tree",

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                "conditions": [
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                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseFIPS"
                      },
                      true
                    ]
                  },
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseDualStack"

                      },
                      true
                    ]
                  }
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                        "argv": [
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                          {
                            "fn": "getAttr",

  "argv": [
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                                  "ref": "PartitionResult"
                                },
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"supportsFIPS"
]
}
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},
{
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"argv": [
true,
{

"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsDualStack"
]
}
]
}
],
"type": "tree",
"rules": [
{

"conditions": [],
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
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"type": "endpoint"
}
]
},
{
"conditions": [],
"error": "FIPS and DualStack are enabled, but this partition does not support one or both",
"type": "error"
}
]
},
{
"conditions": [
{

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                "fn": "booleanEquals",
                "argv": [
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                    "ref": "UseFIPS"
                  },
                  true
                ]
              }
            ],
            "type": "tree",

        "rules": [
              {
                "conditions": [
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      true,
                      {
                        "fn": "getAttr",
                        "argv": [
                          {
                            "ref": "PartitionResult"
                          },
                          "supportsFIPS"

                 ]
                      }
                    ]
                  }
                ],
                "type": "tree",
                "rules": [
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                    "conditions": [],
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                      "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                      "properties": {},
                      "headers": {}

            },
                    "type": "endpoint"
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                ]
              },
              {
                "conditions": [],
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                "error": "FIPS is enabled but this partition does not support FIPS",
                "type": "error"
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    },
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                "fn": "booleanEquals",
                "argv": [
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                        "ref": "UseDualStack"
                    },
                    true
                ]
            }
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                            {

                                "fn": "getAttr",
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                                        "ref": "PartitionResult"
                                    },
                                    "supportsDualStack"
                                ]
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                        ]
                    }
                ],
                "type": "tree",
                "rules": [
                    {

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                            "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                            "properties": {},
                            "headers": {}
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                                    },
                                    "type": "endpoint"
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                            "conditions": [],
                            "error": "DualStack is enabled but this partition does
not support DualStack",
                            "type": "error"
                        }
                    ]
                },
                {
                    "conditions": [],
                    "endpoint": {
                        "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                        "properties": {},
                        "headers": {}
                    },
                    "type": "endpoint"
                }
            ]
        }
    ]
},
{
    "conditions":
[],
    "error": "Invalid Configuration: Missing Region",
    "type": "error"
}
]
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"smithy.rules#endpointTests": {
    "testCases": [
        {
            "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": true
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            }
        },
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            "documentation":
"For region us-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
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                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false
            }
        },
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            "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
                }
            },

        "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
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            "documentation": "For region cn-north-1 with
FIPS enabled and DualStack enabled",
            "expect": {
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"url": "https://license-manager-user-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},

"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,

"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
}
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"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"
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"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false
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"documentation": "For region us-gov-east-1
with FIPS disabled and DualStack enabled",
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"params": {
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"UseFIPS": false,
"UseDualStack": true
}
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"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {

"url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect":
{
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
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"UseDualStack":
true
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"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
}
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"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but
this partition does not support one or both"
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"params": {
"Region": "us-isob-east-1",
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"UseDualStack": true
}
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{
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"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}

},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
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"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}

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        {
          "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
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            }
          },
           "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
          "expect": {
            "endpoint": {
              "url": "https://example.com"
            }
          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": false,
            "Endpoint": "https://example.com"
          }
        },
        {

"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
          "expect": {
            "endpoint": {
              "url": "https://example.com"
            }
          },
          "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Endpoint": "https://example.com"
          }
        },
        {
          "documentation": "For custom endpoint with fips enabled and dualstack disabled",
          "expect": {
            "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
          },
          "params": {
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                "Region": "us-east-1",
                 "UseFIPS": true,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
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            "documentation": "For custom endpoint with fips disabled and dualstack enabled",
            "expect": {
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "Missing region",
            "expect": {
                 "error": "Invalid Configuration: Missing Region"
            }
        }
    ],
    "version": "1.0"
  }
}
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"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
     },
    {
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"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the identity providers for user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/ListIdentityProviders"
},
"smithy.api#paginated":
{
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "IdentityProviderSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
{
"type": "structure",

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    "members": {
        "IdentityProviderSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
                "smithy.api#required": {}
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
    ],
    "traits": {
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"smithy.api#documentation": " Lists the EC2 instances providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/instance/ListInstances"
},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "InstanceSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
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"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
"type": "structure",
"members": {
"InstanceSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list instances operation. "
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
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"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the user-based subscription products available from an identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/ListProductSubscriptions"
},
"smithy.api#paginated": {

"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "ProductUserSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
"type": "structure",
"members": {
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name
of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {

"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match
one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {

"type": "structure",
"members": {
"ProductUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list product subscriptions operation. "
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists user associations for an identity provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListUserAssociations"
            },
            "smithy.api#paginated":
 {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity
 provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify.</p>"
```

```
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for
the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
    "type": "structure",
    "members": {
        "InstanceUserSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Metadata that describes the list user association operation.</p>"
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
    "type": "structure",
    "members": {

    "Username": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                "smithy.api#required": {}
            }
        },
        "Product": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                "smithy.api#required": {}
            }
        },
        "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
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"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}

},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a product for a user. ",
"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for a product for a user. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"SubscriptionStartDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The
start date of a subscription. "
}
},
"SubscriptionEndDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The end date of a subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " The summary of the user-based subscription products for a user. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
}

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},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Registers an identity provider for user-based subscriptions.</p>",
        "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/identity-provider/RegisterIdentityProvider"
        },
        "smithy.api#idempotent": {}
    }
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
    "type": "structure",
    "members": {
        "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
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"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings such as the\n subnets to provision VPC endpoints. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The resource couldn't be found. ",
"smithy.api#error": "client",
"smithy.api#httpError": 404
}
},

"com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
"type": "string",

"traits": {
"smithy.api#length": {
"min": 5,
"max": 200
},
"smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request failed because a service quota is exceeded. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Settings": {
"type": "structure",
"members": {
"Subnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation":
" The subnets defined for the registered identity provider. ",
"smithy.api#length": {
"min": 1
},
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID that allows inbound TCP port 1688
communication between resources in\n your VPC and the VPC endpoint for activation servers. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings

such as the\n subnets to provision VPC endpoints, and the security group ID that
is associated with the VPC\n endpoints. The security group should permit inbound TCP port 1688
communication from resources\n in the VPC. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Starts a product subscription for a user with the specified identity
provider. \n <note>\n Your estimated bill for charges on the number of users and related costs
will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing status)
in Amazon Web Services Billing.
For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n monthly
charges in the Amazon Web Services Billing User Guide. \n </note>",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/StartProductSubscription"

```
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                 "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
        "type": "structure",
         "members": {
            "ProductUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the start product subscription
operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
```

"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Stops a product subscription for a user with the specified identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/StopProductSubscription"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required":
{}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
"type": "structure",
"members": {
"ProductUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
"traits": {
"smithy.api#documentation":
" Metadata that describes the start product subscription operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StringList": {
"type": "list",
"member": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Subnet": {
"type": "string",

"traits": {
"smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Subnets": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
"type": "structure",
"members": {
"message": {

"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request was denied because of request throttling. Retry the request. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates additional product configuration settings for the registered

identity\n provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/UpdateIdentityProviderSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"UpdateSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings. You can\n update any combination of settings in a single operation such as the: \n \n \n Subnets which you want to add to provision VPC endpoints. \n \n \n Subnets which you want to remove the VPC endpoints from. \n \n \n Security group ID which permits traffic to the VPC endpoints. \n \n ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#required": {}
}
}
}

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
        "type": "structure",
        "members": {
            "AddSubnets": {

             "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of one or more subnets in which License Manager will
create a VPC endpoint for products that\n      require connectivity to activation servers.</p>",
                    "smithy.api#required": {}
                }
            },
            "RemoveSubnets": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of one or more subnets to remove.</p>",
                    "smithy.api#required": {}
                }
            },
            "SecurityGroupId": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
                "traits": {
                    "smithy.api#documentation": "<p>A security group ID
 that allows inbound TCP port 1688 communication between resources in\n      your VPC and the VPC endpoints for
activation servers.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Updates the registered identity providers product related configuration
settings such as\n      the subnets to provision VPC endpoints.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A parameter is not valid.</p>",
            "smithy.api#error": "client"
        }
    }
  }
}
```

```
{
  "smithy": "2.0",
  "metadata": {
    "suppressions": [
      {
        "id": "HttpMethodSemantics",
        "namespace": "*"
      },
      {
        "id": "HttpResponseCodeSemantics",
        "namespace": "*"
      },
      {
        "id": "PaginatedTrait",
        "namespace": "*"
      },
      {
        "id": "HttpHeaderTrait",
        "namespace": "*"
      },
      {
        "id": "HttpUriConflict",
        "namespace": "*"
      },
      {
        "id": "Service",
        "namespace": "*"
      }
    ]
  },
  "shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
      "type": "service",
      "version": "2018-08-01",
      "operations": [
        {
          "target": "com.amazonaws.licensemanager#AcceptGrant"
        },

 {
          "target": "com.amazonaws.licensemanager#CheckInLicense"
        },
        {
          "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
        },
        {
          "target": "com.amazonaws.licensemanager#CheckoutLicense"
        },
```

```
    {
      "target": "com.amazonaws.licensemanager#CreateGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateGrantVersion"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseVersion"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateToken"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteToken"
    },
    {
      "target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

  },
    {
      "target": "com.amazonaws.licensemanager#GetAccessToken"
    },
    {
      "target": "com.amazonaws.licensemanager#GetGrant"
```

},
{
"target": "com.amazonaws.licensemanager#GetLicense"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseUsage"
},
{
"target": "com.amazonaws.licensemanager#GetServiceSettings"
},
{
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
},
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"target": "com.amazonaws.licensemanager#ListDistributedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
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"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
"target": "com.amazonaws.licensemanager#ListLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

"target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{

"target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization"
},
{
"target": "com.amazonaws.licensemanager#ListResourceInventory"
},
{
"target": "com.amazonaws.licensemanager#ListTagsForResource"
},
{
"target": "com.amazonaws.licensemanager#ListTokens"
},
{
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#RejectGrant"
},
{
"target": "com.amazonaws.licensemanager#TagResource"
},
{
"target": "com.amazonaws.licensemanager#UntagResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateServiceSettings"
}
],
"traits": {
"aws.api#service": {

"sdkId": "License Manager",
"arnNamespace": "license-manager",
"cloudFormationName": "LicenseManager",
"cloudTrailEventSource": "licensemanager.amazonaws.com",
"endpointPrefix": "license-manager"
},
"aws.auth#sigv4": {
"name": "license-manager"
},
"aws.protocols#awsJson1_1": {},
"smithy.api#documentation": " License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers. ",
"smithy.api#title": "AWS License Manager",
"smithy.api#xmlNamespace": {
"uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
},
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}

```
    },
    "rules": [
      {
        "conditions": [
          {
            "fn": "isSet",
            "argv": [
              {
                "ref": "Endpoint"
              }
            ]

        }
        ],
        "type": "tree",
        "rules": [
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseFIPS"
                  },
                  true
                ]
              }
            ],
            "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
            "type": "error"
          },
          {

"conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseDualStack"
                  },
                  true
                ]
              }
            ],
            "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
            "type": "error"
          },
          {
```

```
                "conditions": [],
                "endpoint": {
                  "url": {
                    "ref": "Endpoint"
                  },
                  "properties": {},
                  "headers": {}
                },
                "type": "endpoint"
              }
            ]
          },
          {
            "conditions": [
              {
                "fn": "isSet",
                "argv": [
                  {
                    "ref": "Region"
                  }
                ]
              }
            ],
            "type": "tree",
            "rules": [
              {
                "conditions": [
                  {
                    "fn": "aws.partition",
                    "argv": [
                      {
                        "ref": "Region"
                      }
                    ],
                    "assign": "PartitionResult"
                  }
                ],
                "type": "tree",
                "rules": [
                  {
                    "conditions": [
                      {
                        "fn": "booleanEquals",
                        "argv": [
                          {
                            "ref":
"UseFIPS"
                          },
```

```
                    true
                ]
            },
            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseDualStack"
                    },
                    true
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
                            {
                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsFIPS"
                                ]

                }
                        ]
                    },
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
                            {
                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },

"supportsDualStack"
                                ]
                            }
                        ]
```

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                    }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [],
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fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                            "properties": {},
                            "headers": {}

            },
                        "type": "endpoint"
                    }
                ]
            },
            {
                "conditions": [],
                "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
                "type": "error"
            }
        ]
    },
    {
        "conditions": [
            {
                "fn": "booleanEquals",

      "argv": [
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                        "ref": "UseFIPS"
                    },
                    true
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
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{
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                "argv": [
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                    "ref": "PartitionResult"
                  },
                  "supportsFIPS"
                ]
              }
            ]
          }
        ],
        "type": "tree",
        "rules": [

{
            "conditions": [],
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              "properties": {},
              "headers": {}
            },
            "type": "endpoint"
          }
        ]
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      {
        "conditions": [],
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partition does not support FIPS",
        "type": "error"
      }
    ]
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  {
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        "argv": [
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          },
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        ]
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                        "argv": [
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                            "argv": [
                              {
                                "ref": "PartitionResult"
                              },

"supportsDualStack"
                            ]
                          }
                        ]
                      }
                    ],
                    "type": "tree",
                    "rules": [
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                        "conditions": [],
                        "endpoint": {
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manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
                          "properties": {},
                          "headers": {}

                  },
                        "type": "endpoint"
                      }
                    ]
                  },
                  {
                    "conditions": [],
                    "error": "DualStack is enabled but this partition does not support DualStack",
                    "type": "error"
                  }
                ]
              },
              {
                "conditions": [],
                "endpoint": {
                  "url": "https://license-manager.{Region}.{PartitionResult#dnsSuffix}",
                   "properties": {},
                  "headers": {}
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```
                    },
                    "type": "endpoint"
                }
            ]
        }
    ]
},
{
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    "error": "Invalid Configuration: Missing Region",
    "type": "error"
}
]
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{
                    "url": "https://license-manager.af-south-1.amazonaws.com"
                }
            },
            "params": {
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                "UseDualStack": false
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            "params": {
                "Region": "ap-east-1",
                "UseFIPS": false,
                "UseDualStack": false
             }
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            "expect": {
                "endpoint": {
                    "url": "https://license-manager.ap-northeast-1.amazonaws.com"
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            }
        },
        "params": {
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            "UseFIPS": false,
            "UseDualStack": false
        }
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        "expect": {
            "endpoint": {
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        "params": {
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            "UseDualStack": false
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        "expect": {
            "endpoint": {
                "url": "https://license-manager.ap-northeast-3.amazonaws.com"
            }
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        "params": {
            "Region": "ap-northeast-3",
            "UseFIPS": false,
            "UseDualStack": false
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            "endpoint": {
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        "params": {
            "Region": "ap-south-1",
            "UseFIPS": false,
            "UseDualStack": false
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    },
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          "expect": {
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          },
          "params": {
            "Region": "ap-southeast-1",
            "UseFIPS": false,
            "UseDualStack": false
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          "documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ap-southeast-2.amazonaws.com"
            }
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          "params": {
            "Region": "ap-southeast-2",
            "UseFIPS": false,
            "UseDualStack": false
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"documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
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            "endpoint": {
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            }
          },
          "params": {
            "Region": "ap-southeast-3",
            "UseFIPS": false,
            "UseDualStack": false
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        },
        {
          "documentation": "For region ca-central-1 with FIPS disabled and DualStack disabled",
          "expect": {
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              "url": "https://license-manager.ca-central-1.amazonaws.com"
            }
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"params": {
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"expect": {
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"params": {
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"UseFIPS": false,
"UseDualStack": false
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disabled and DualStack disabled",
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"url": "https://license-manager.eu-north-1.amazonaws.com"
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"params": {
"Region": "eu-north-1",
"UseFIPS": false,
"UseDualStack": false
}
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{
"documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-south-1.amazonaws.com"
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},
"params": {
"Region":
"eu-south-1",
"UseFIPS": false,
"UseDualStack": false
}
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            }
          },
          "params": {
            "Region": "eu-west-1",
            "UseFIPS": false,
            "UseDualStack": false
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        {
          "documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
          "expect": {

          "endpoint": {
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          "params": {
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            "UseFIPS": false,
            "UseDualStack": false
          }
        },
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          "documentation": "For region eu-west-3 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
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            }
          },
          "params": {
            "Region": "eu-west-3",
            "UseFIPS": false,

"UseDualStack": false
          }
        },
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          "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.me-south-1.amazonaws.com"
            }
          },
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"params": {
"Region": "me-south-1",
"UseFIPS": false,
"UseDualStack": false
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"expect": {
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"params": {
"Region": "sa-east-1",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
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"url": "https://license-manager.us-east-1.amazonaws.com"
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"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
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}
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"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
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"documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",

"expect": {
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"url": "https://license-manager.us-east-2.amazonaws.com"
}

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"params": {
"Region": "us-east-2",
"UseFIPS": false,
"UseDualStack": false
}
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}
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"params": {
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}
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us-west-1 with FIPS disabled and DualStack disabled",
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"UseFIPS": false,
"UseDualStack": false
}
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{
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"params": {

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"UseFIPS": false,
"UseDualStack": false
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"UseFIPS": true,
"UseDualStack": false
}
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"expect": {
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"url": "https://license-manager-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,

"UseDualStack": true
}
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{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",

"expect": {
"endpoint": {
"url": "https://license-manager.us-east-1.api.aws"
}
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"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url":
"https://license-manager.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
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{
"documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
}
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"params": {
"Region": "cn-northwest-1",
"UseFIPS": false,
"UseDualStack": false

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"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
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}
},
"params": {
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            "UseFIPS": true,
            "UseDualStack": true
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        "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
        "expect": {
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                "url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
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        },
        "params": {
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            "UseDualStack": false
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            }
        },
        "params": {
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            "UseDualStack": true
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            "UseFIPS": false,
            "UseDualStack": false
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    {
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"UseDualStack": false
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"url": "https://license-manager.us-gov-west-1.amazonaws.com"
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"params": {
"Region": "us-gov-west-1",
"UseFIPS": false,
"UseDualStack": false
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"For region us-gov-west-1 with FIPS enabled and DualStack disabled",
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"UseDualStack": false
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},

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"UseDualStack": true

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                "UseDualStack": true
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disabled",
            "expect": {
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                }
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": false,
                "UseDualStack": false
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            "expect": {
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            "expect": {
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                }
            },
            "params": {
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but this partition does not support DualStack"
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"UseDualStack": false
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"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
}

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                        "UseDualStack": false
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                    "expect": {
                        "error": "DualStack is enabled but this partition does not support DualStack"
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                    "params": {
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                        "UseFIPS": false,
                        "UseDualStack": true
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                        "Endpoint": "https://example.com"
                    }
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disabled",
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                    "params": {
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                    }
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                        "UseDualStack": false,
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                    }
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                    }
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                        "error": "Invalid Configuration: Missing Region"
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            "version": "1.0"
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"target": "com.amazonaws.licensemanager#AccessDeniedException"
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"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
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"target": "com.amazonaws.licensemanager#ServerInternalException"
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"target": "com.amazonaws.licensemanager#ValidationException"

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"traits": {
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"smithy.api#required": {}
}
}
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"traits": {
"smithy.api#input": {}
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"com.amazonaws.licensemanager#AcceptGrantResponse": {
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"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant

ARN. "
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": " Grant status. "
            }
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          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": " Grant version. "
            }
          }
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            "target": "com.amazonaws.licensemanager#Message"
          }
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"code": "ServiceAccessDenied",
            "httpResponseCode": 401
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          "smithy.api#documentation": " Access to resource denied. ",
          "smithy.api#error": "client",
          "smithy.api#httpError": 401
        }
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      "com.amazonaws.licensemanager#ActivationOverrideBehavior": {
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            "target": "smithy.api#Unit",
            "traits": {
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            }
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"target": "smithy.api#Unit",
"traits": {
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}
}
}
},
"com.amazonaws.licensemanager#AllowedOperation": {

"type": "enum",
"members": {
"CREATE_GRANT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CreateGrant"
}
},
"CHECKOUT_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckoutLicense"
}
},
"CHECKOUT_BORROW_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckoutBorrowLicense"
}
},
"CHECK_IN_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckInLicense"
}
},
"EXTEND_CONSUMPTION_LICENSE":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ExtendConsumptionLicense"
}
},
"LIST_PURCHASED_LICENSES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ListPurchasedLicenses"
}
},

"CREATE_TOKEN": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CreateToken"
}
}
}
},
"com.amazonaws.licensemanager#AllowedOperationList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#AllowedOperation"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max":
7
}
}
},
"com.amazonaws.licensemanager#Arn": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
}
},
"com.amazonaws.licensemanager#ArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
}
},
"com.amazonaws.licensemanager#AuthorizationException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError":

{
"code": "AuthorizationFailure",
"httpResponseCode": 403
},
"smithy.api#documentation": " The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n policy associated with this account. ",
"smithy.api#error": "client",
"smithy.api#httpError": 403
}
},
"com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
"type": "structure",
"members": {
"LastRunTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time that automated discovery last ran. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes automated discovery. "
}
},

"com.amazonaws.licensemanager#Boolean": {
"type": "boolean",
"traits": {
"smithy.api#default": false
}
},
"com.amazonaws.licensemanager#BorrowConfiguration": {
"type": "structure",
"members": {
"AllowEarlyCheckIn": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether early check-ins are allowed. ",
"smithy.api#required": {}
}
},
"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the borrow configuration, in minutes. ",
"smithy.api#required": {}
}
}

```
},
        "traits": {
            "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#BoxBoolean": {
        "type": "boolean"
    },
    "com.amazonaws.licensemanager#BoxInteger": {
        "type": "integer"
    },
    "com.amazonaws.licensemanager#BoxLong": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#CheckInLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"

     },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
```

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseRequest":
{
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicense":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members":
{
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
                    "smithy.api#required": {}
                }
```

```
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
                    "smithy.api#required": {}
                }
            },
            "DigitalSignatureMethod": {
                "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
                "traits": {
                    "smithy.api#documentation": "<p>Digital signature method. The possible
 value is JSON Web Signature (JWS) algorithm PS384.\n        For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>",
                    "smithy.api#required": {}
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation":
 "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
```

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed":
{
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " Allowed license entitlements. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"SignedToken": {
"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout
is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
}
},

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks out the specified license. \n <note>\n If the account that created the license is the same that is performing the check out, you must\n specify the account

as the beneficiary. \n </note>"
  }
},
"com.amazonaws.licensemanager#CheckoutLicenseRequest": {
  "type": "structure",
  "members": {
    "ProductSKU": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": " Product
 SKU. ",
        "smithy.api#required": {}
      }
    },
    "CheckoutType": {
      "target": "com.amazonaws.licensemanager#CheckoutType",
      "traits": {
        "smithy.api#documentation": " Checkout type. ",
        "smithy.api#required": {}
      }
    },
    "KeyFingerprint": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": " Key fingerprint identifying the license. ",
        "smithy.api#required": {}
      }
    },
    "Entitlements": {
      "target": "com.amazonaws.licensemanager#EntitlementDataList",
      "traits": {
        "smithy.api#documentation": " License entitlements. ",

"smithy.api#required": {}
      }
    },
    "ClientToken": {
      "target": "com.amazonaws.licensemanager#ClientToken",
      "traits": {
        "smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request. ",
        "smithy.api#required": {}
      }
    },
    "Beneficiary": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": " License beneficiary. "

```
            }
        },
        "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        }
    },
    "traits": {

   "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
    "type": "structure",
    "members": {
        "CheckoutType": {
            "target": "com.amazonaws.licensemanager#CheckoutType",
            "traits": {
                "smithy.api#documentation": "<p>Checkout type.</p>"
            }
        },
        "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
            }
        },
        "EntitlementsAllowed": {
            "target": "com.amazonaws.licensemanager#EntitlementDataList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
            }
        },
         "SignedToken": {
            "target": "com.amazonaws.licensemanager#SignedToken",
            "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
            }
        },
        "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        },
        "IssuedAt": {
```

"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and
time at which the license checkout expires. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the checkout license. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutType": {
"type": "enum",
"members": {
"PROVISIONAL": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PROVISIONAL"
}
},
"PERPETUAL": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PERPETUAL"
}
}
}
},
"com.amazonaws.licensemanager#ClientRequestToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 36
}
}

```
    },
    "com.amazonaws.licensemanager#ClientToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 2048
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
    "com.amazonaws.licensemanager#ConflictException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ConflictException",
                "httpResponseCode":
 409
            },
            "smithy.api#documentation": "<p>There was a conflict processing the request. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 409
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
                }
            },
            "ConsumedLicenses": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
                }
            }
        },
```

"traits": {
"smithy.api#documentation": " Details about license consumption. "
}
},
"com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
}
},
"com.amazonaws.licensemanager#ConsumptionConfiguration": {
"type": "structure",
"members": {
"RenewType": {
"target": "com.amazonaws.licensemanager#RenewType",
"traits": {
"smithy.api#documentation": " Renewal frequency. "
}
},
"ProvisionalConfiguration": {
"target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"BorrowConfiguration": {
"target": "com.amazonaws.licensemanager#BorrowConfiguration",
"traits": {
"smithy.api#documentation": " Details about a borrow configuration. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a consumption configuration. "
}
},
"com.amazonaws.licensemanager#CreateGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

```
            {
                "target":
 "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of
license\n        entitlements with a specific Amazon Web Services account, an organization, or an\n
organizational unit (OU). For more
 information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}

    }
            },
            "LicenseArn": {
```

"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Principals": {
"target": "com.amazonaws.licensemanager#PrincipalArnList",
"traits": {
"smithy.api#documentation": " The grant principals. You can specify one of the following as an Amazon Resource Name\n (ARN): \n \n \n An Amazon Web Services account, which includes only the account specified. \n \n \n \n \n An organizational unit (OU), which includes all accounts in the OU. \n \n \n \n \n An organization, which will include all accounts across your organization. \n \n ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},

"com.amazonaws.licensemanager#CreateGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},

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            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersion":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
             },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
```

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information,
see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",

  "smithy.api#required": {}
                }
            },
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>"
                }
            },
            "AllowedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                 "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status reason.</p>"
```

```
            }
        },
        "SourceVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Current version of the grant.</p>"
            }
        },
        "Options": {
            "target": "com.amazonaws.licensemanager#Options",
            "traits": {
                "smithy.api#documentation": "<p>The options specified for the grant.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>New version of the grant.</p>"
            }
        }
    },
    "traits":
{
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicense": {
    "type": "operation",
```

```
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a license.</p>"
    }
},
"com.amazonaws.licensemanager#CreateLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license configuration.</p>\n        <p>A license configuration is an abstraction of a customer license agreement that can be\n        consumed and enforced by License Manager. Components include specifications for the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n        Dedicated Instance, Dedicated Host, or all of these), license affinity  to host (how long a \n        license must be associated with a host), and the number of licenses purchased and used.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the license configuration.</p>"
                }
            },
            "LicenseCountingType": {
                "target": "com.amazonaws.licensemanager#LicenseCountingType",
                "traits": {
                    "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
```

"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows. \n \n \n \n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n <code>licenseAffinityToHost</code> |\n <code>maximumCores</code> | <code>minimumCores</code>\n \n \n \n \n <code>Instances</code> dimension: <code>allowedTenancy</code> | \n <code>maximumCores</code> | <code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n \n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n <code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code>\n \n \n \n \n <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n <code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>. "
}
},

"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the license configuration. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "

```
            }
          },
          "ProductInformationList": {
            "target": "com.amazonaws.licensemanager#ProductInformationList",
            "traits": {
              "smithy.api#documentation": "<p>Product information.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse":
{
        "type": "structure",
        "members": {
          "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
           },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {

                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting
from. \n\n        For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            },
            "DestinationLicenseContext":
 {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting to.
For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
```

```
    }
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
    "type": "structure",
    "members": {
        "LicenseConversionTaskId": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

   "traits": {
                "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
         },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
```

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a report generator. "
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"ReportGeneratorName":
{
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types an be generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}

}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " Defines the type of license configuration the report generator tracks. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",

"traits": {
"smithy.api#documentation": " Unique,
case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the new report
generator. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseRequest": {
"type": "structure",
"members": {
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}

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            },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product
name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "Issuer": {
                "target": "com.amazonaws.licensemanager#Issuer",
                "traits": {
                    "smithy.api#documentation": "<p>License issuer.</p>",
                    "smithy.api#required": {}
                }
            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Home Region for the license.</p>",
                    "smithy.api#required": {}

    }
            },
            "Validity": {
                "target": "com.amazonaws.licensemanager#DatetimeRange",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",
                    "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},

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        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
    }
```

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    },
    "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target":
"com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "LicenseName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License name.</p>",
            "smithy.api#required": {}
          }
        },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product name.</p>",
            "smithy.api#required": {}
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#Issuer",
          "traits":
{
            "smithy.api#documentation": "<p>License issuer.</p>",
            "smithy.api#required": {}
          }
        },
        "HomeRegion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Home Region of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "Validity": {
          "target": "com.amazonaws.licensemanager#DatetimeRange",
          "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
            "smithy.api#required": {}
          }
```

```
            },
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license.</p>"
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",
                    "smithy.api#required": {}
                }
            },
            "ConsumptionConfiguration": {
                "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n         running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n         usage.</p>",
                    "smithy.api#required": {}
                }
            },

   "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>",
                    "smithy.api#required": {}
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>"
                }
            }
        },
        "traits": {
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"smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": " License ARN. "
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " New version of the license. "
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": " License status. "
                }
            }
        },
        "traits": {
            "smithy.api#output":
{}
        }
    },
    "com.amazonaws.licensemanager#CreateToken": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateTokenResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },

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            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },

        {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a long-lived token.</p>\n        <p>A refresh token is a JWT token used to get an access token. With an access token,\n          you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n          call License Manager to manage the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateTokenRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits":
 {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n          JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "RoleArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n        License Manager does not check whether the roles are in use.</p>"
                }
            },
            "ExpirationInDays": {
                "target": "com.amazonaws.licensemanager#Integer",
                "traits": {
                    "smithy.api#documentation": "<p>Token expiration, in days, counted from token creation. The default is 365 days.</p>"
                }
```

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            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Data specified by the caller to be included in the JWT token. The
data is mapped\n          to the amr claim of the JWT token.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Idempotency token, valid for 10 minutes.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateTokenResponse": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",

                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
            "TokenType": {
                "target": "com.amazonaws.licensemanager#TokenType",
                "traits": {
                    "smithy.api#documentation": "<p>Token type.</p>"
                }
            },
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DateTime": {
```

```
    "type": "timestamp"
  },
  "com.amazonaws.licensemanager#DatetimeRange": {
    "type": "structure",
    "members": {
      "Begin": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
          "smithy.api#documentation": "<p>Start of the time range.</p>",
          "smithy.api#required": {}
        }
      },
      "End": {
        "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
          "smithy.api#documentation": "<p>End of the time range.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
    }
  },
  "com.amazonaws.licensemanager#DeleteGrant": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
     },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
      },
      {
```

"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes
the specified grant. "
}
},
"com.amazonaws.licensemanager#DeleteGrantRequest": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " The Status reason for the delete request. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the
grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}

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            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
```

"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license configuration. \n You cannot delete a license configuration that is in use. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
"type": "structure",
"members":
{
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

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            "smithy.api#documentation": "<p>ID of the license configuration.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
       },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
```

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified report generator.</p>\n        <p>This action deletes the report generator, which stops it from generating future reports.\n        The action cannot be reversed. It has no effect on the previous reports from this generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to be deleted.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {

 "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>",
                    "smithy.api#required":
```

{}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseResponse": {
"type": "structure",
"members": {
"Status": {
"target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"DeletionDate": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date when the license is deleted. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"

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            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },

    {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}

      }
    },
    "com.amazonaws.licensemanager#DigitalSignatureMethod": {
        "type": "enum",
        "members": {
            "JWT_PS384": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "JWT_PS384"
                }
```

```
            }
        }
    },
    "com.amazonaws.licensemanager#Entitlement": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement name.</p>",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement resource. Use only
if the unit is None.</p>"
                }
            },
            "MaxCount": {
                "target": "com.amazonaws.licensemanager#Long",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
                }
            },
            "Overage": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether overages are allowed.</p>"
                }
            },
            "Unit": {
                "target": "com.amazonaws.licensemanager#EntitlementUnit",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement unit.</p>",
                    "smithy.api#required": {}
                }
            },
            "AllowCheckIn": {
                "target":
"com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether check-ins are allowed.</p>"
                }
            }
        },
        "traits": {
```

"smithy.api#documentation": " Describes a resource entitled for use with a license. "
}
},
"com.amazonaws.licensemanager#EntitlementData": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement
data value. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {
"smithy.api#documentation": " Entitlement data unit. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Data associated with an entitlement resource. "
}
},
"com.amazonaws.licensemanager#EntitlementDataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#EntitlementData"
}
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
"type": "enum",
"members": {
"COUNT": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Count"
}
},

"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"SECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Seconds"
}
},
"MICROSECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Microseconds"
}
},
"MILLISECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Milliseconds"
}
},
"BYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes"
}
},
"KILOBYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes"
}
},
"MEGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes"
}
},
"GIGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes"
}
},

"TERABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"

}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"

```
            }
        },
        "KILOBYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes/Second"
            }
        },
        "MEGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes/Second"
            }
        },
        "GIGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Gigabytes/Second"
            }
        },
        "TERABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabytes/Second"
            }
        },
        "BITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bits/Second"
            }
        },
        "KILOBITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobits/Second"
            }
        },
        "MEGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue":
"Megabits/Second"
            }
        },
        "GIGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
```

"smithy.api#enumValue": "Gigabits/Second"
}
},
"TERABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits/Second"
}
},
"COUNT_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count/Second"
}
}
}
},
"com.amazonaws.licensemanager#EntitlementList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Entitlement"
}
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The entitlement is not allowed. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#EntitlementUnit": {
"type": "enum",
"members": {
"COUNT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count"
}
},
"NONE": {
"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "None"
}
},
"SECONDS":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Seconds"
}
},
"MICROSECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Microseconds"
}
},
"MILLISECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Milliseconds"
}
},
"BYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes"
}
},
"KILOBYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes"
}
},
"MEGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes"
}
},
"GIGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes"
}
},
"TERABYTES": {

"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"
}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target":
"smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"
}

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            },
            "KILOBYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Kilobytes/Second"
                }
            },
            "MEGABYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Megabytes/Second"
                }
            },
            "GIGABYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Gigabytes/Second"
                }
            },
            "TERABYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {

"smithy.api#enumValue": "Terabytes/Second"
                }
            },
            "BITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Bits/Second"
                }
            },
            "KILOBITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Kilobits/Second"
                }
            },
            "MEGABITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Megabits/Second"
                }
            },
            "GIGABITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Gigabits/Second"
```

```
            }
        },

    "TERABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits/Second"
            }
        },
        "COUNT_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Count/Second"
            }
        }
    }
},
"com.amazonaws.licensemanager#EntitlementUsage": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                "smithy.api#required": {}
            }
        },
        "ConsumedValue": {
            "target": "com.amazonaws.licensemanager#String",

        "traits": {
                "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxCount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                "smithy.api#required": {}
            }
        }
```

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        },
        "traits": {
            "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementUsageList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
```

"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",
"smithy.api#required": {}

}
},
"DryRun": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#default": false,
"smithy.api#documentation": " Checks whether you have the required permissions for the action, without actually making the request. Provides an error response if you do not have the required permissions. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},

"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license consumption expires. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#FailedDependencyException": {
"type": "structure",
"members": {
"Message": {

"target": "com.amazonaws.licensemanager#Message"
},
"ErrorCode": {
"target": "com.amazonaws.licensemanager#String"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FailedDependency",
"httpResponseCode": 424
},
"smithy.api#documentation":
" A dependency required to run the API is missing. ",
"smithy.api#error": "client",
"smithy.api#httpError": 424
}
},
"com.amazonaws.licensemanager#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#FilterName",
"traits": {
"smithy.api#documentation": " Name of the filter. Filter names are case-sensitive. "
}
},
"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " The value of the filter, which is case-sensitive. You can only
specify one value for the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter
name and value pair that is used to return more specific results from a\n describe operation. Filters can be used
to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {

```
        "aws.protocols#awsQueryError": {
            "code": "FilterLimitExceeded",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#FilterList": {
    "type": "list",
     "member": {
        "target": "com.amazonaws.licensemanager#Filter"
    }
},
"com.amazonaws.licensemanager#FilterName": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#FilterValue",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#Filters": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Filter",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#GetAccessToken": {
    "type": "operation",
    "input": {
         "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
    },
    "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access
 tokens\n          are valid for one hour.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenRequest": {
        "type": "structure",
        "members": {
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT
token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenResponse":
 {
        "type": "structure",
        "members": {
```

```
        "AccessToken": {
            "target": "com.amazonaws.licensemanager#TokenString",
            "traits": {
                "smithy.api#documentation": "<p>Temporary access token.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"

    },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
```

```
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
                "smithy.api#documentation": "<p>Grant details.</p>"
            }
        }
    },
    "traits": {

"smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
```

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"

},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license configuration. "

```
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits":
 {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            },
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>"
                 }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the license configuration.</p>"
                }
            },
            "LicenseCountingType": {
                "target": "com.amazonaws.licensemanager#LicenseCountingType",
```

"traits": {
"smithy.api#documentation": " Dimension for which the licenses are counted. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",

"traits": {
"smithy.api#documentation": " Number of available licenses. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Sets the number of available licenses as a hard limit. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses assigned to resources. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License configuration status. "
}

},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},

"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When
true, disassociates a resource when software is uninstalled. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified license type conversion task. "
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. "

```
            }
        },
        "SourceLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information
about the license type converted from.</p>"
            }
        },
        "DestinationLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license type converted to.</p>"
            }
        },
        "StatusMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
            "traits": {
                "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
            }
        },

  "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
            }
        },
        "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
            }
        },
        "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
            }
        }
    },
```

```
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

         },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. ",
"smithy.api#required":
{}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"ReportGenerator": {
"target": "com.amazonaws.licensemanager#ReportGenerator",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic reports about your license configurations. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#input": {}
}

```
    },
    "com.amazonaws.licensemanager#GetLicenseResponse": {
        "type": "structure",
        "members": {
            "License": {
                "target": "com.amazonaws.licensemanager#License",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },

"com.amazonaws.licensemanager#GetLicenseUsage": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

"target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
        }
```

```
    },
    "com.amazonaws.licensemanager#GetLicenseUsageRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageResponse": {
      "type": "structure",
      "members": {
        "LicenseUsage": {
          "target":
"com.amazonaws.licensemanager#LicenseUsage",
          "traits": {
            "smithy.api#documentation": "<p>License usage details.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets the License Manager settings for the current Region. "
}
},
"com.amazonaws.licensemanager#GetServiceSettingsRequest": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Regional S3 bucket path for storing reports, license trail event data, discovery data,\n and so on. "

}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " SNS topic configured to receive notifications from License Manager. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Indicates whether Organizations is integrated with License Manager for\n cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether cross-account discovery is enabled. "
}

```
        },
            "LicenseManagerResourceShareArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
Manager management account \n        provides member accounts with access to this share.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Grant": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {

 "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ParentArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Parent ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>License ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "GranteePrincipalArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
```

"smithy.api#documentation": " The grantee principal ARN. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. ",
"smithy.api#required": {}
}
},
"GrantedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Granted operations. ",
"smithy.api#required": {}
}
},
"Options": {
"target": "com.amazonaws.licensemanager#Options",
"traits": {
"smithy.api#documentation": " The options specified for the grant. "
}
}
},
"traits": {
"smithy.api#documentation":

" Describes a grant. "
        }
    },
    "com.amazonaws.licensemanager#GrantList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Grant"
        }
    },
    "com.amazonaws.licensemanager#GrantStatus": {
        "type": "enum",
        "members": {
            "PENDING_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_WORKFLOW"
                }
            },
            "PENDING_ACCEPT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_ACCEPT"
                }
            },
            "REJECTED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "REJECTED"

            }
            },
            "ACTIVE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "ACTIVE"
                }
            },
            "FAILED_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "FAILED_WORKFLOW"
                }
            },
            "DELETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DELETED"
                }

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            },
            "PENDING_DELETE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_DELETE"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                "traits":
{
                    "smithy.api#enumValue": "DISABLED"
                }
            },
            "WORKFLOW_COMPLETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "WORKFLOW_COMPLETED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GrantedLicense": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>"
                }

  },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product name.</p>"
                }
            },
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>"
```

```
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>Granted license issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the granted license.</p>"

         }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>Granted license status.</p>"
            }
        },
        "Validity": {
            "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {
                "smithy.api#documentation": "<p>Date and time range during which the granted license is valid, in
ISO8601-UTC format.</p>"
            }
        },
        "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Granted license beneficiary.</p>"
            }
        },
        "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
             "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>"
            }
        },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
            }
        },
        "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
```

"traits": {
"smithy.api#documentation": " Granted license metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Creation time of the granted license. "

}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Version of the granted license. "
}
},
"ReceivedMetadata": {
"target": "com.amazonaws.licensemanager#ReceivedMetadata",
"traits": {
"smithy.api#documentation": " Granted license received metadata. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a license that is granted to a grantee. "
}
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#GrantedLicense"
}
},
"com.amazonaws.licensemanager#ISO8601DateTime":
{
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
}
},
"com.amazonaws.licensemanager#Integer": {
"type": "integer"

```
    },
    "com.amazonaws.licensemanager#InvalidParameterValueException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidParameterValueProvided",
                "httpResponseCode": 400
            },
            "smithy.api#documentation":
 "<p>One or more parameter values are not valid.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InvalidResourceStateException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidResourceState",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n        <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },

    "com.amazonaws.licensemanager#InventoryFilter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the filter.</p>",
                    "smithy.api#required": {}
                }
```

```
        },
        "Condition": {
            "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
            "traits": {
                "smithy.api#documentation": "<p>Condition of the filter.</p>",
                "smithy.api#required": {}
            }
        },
        "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Value of the filter.</p>"
            }
        }

    },
    "traits": {
        "smithy.api#documentation": "<p>An inventory filter.</p>"
    }
  },
  "com.amazonaws.licensemanager#InventoryFilterCondition": {
    "type": "enum",
    "members": {
        "EQUALS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EQUALS"
            }
        },
        "NOT_EQUALS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "NOT_EQUALS"
            }
        },
        "BEGINS_WITH": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "BEGINS_WITH"
            }
        },
        "CONTAINS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "CONTAINS"
            }
        }
    }
```

},
"com.amazonaws.licensemanager#InventoryFilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#InventoryFilter"
}
},
"com.amazonaws.licensemanager#Issuer": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. ",
"smithy.api#required": {}
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage
of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about the issuer of a license. "
}
},
"com.amazonaws.licensemanager#IssuerDetails": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. "
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
},
"KeyFingerprint": {

```
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
    }
},
"com.amazonaws.licensemanager#License": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

       "smithy.api#documentation": "<p>License name.</p>"
            }
        },
        "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product name.</p>"
            }
        },
        "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product SKU.</p>"
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>License issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Home Region of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"Entitlements": {

"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " License metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License creation time. "
}
},

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            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfiguration": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            },
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>"
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the license configuration.</p>"
                }
            },
            "LicenseCountingType": {
                "target": "com.amazonaws.licensemanager#LicenseCountingType",
                "traits": {
                    "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
                 }
            },
            "LicenseRules": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>License rules.</p>"
```

```
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Number of available licenses as a hard limit.</p>"
            }
        },
        "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
             "traits": {
                "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses consumed. </p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Status of the license configuration.</p>"
            }
        },
        "OwnerAccountId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Account ID of the license configuration's owner.</p>"

        }
        },
        "ConsumedLicenseSummaryList": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Summaries for licenses consumed by various resources.</p>"
            }
        },
        "ManagedResourceSummaryList": {
            "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
```

"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {

"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource consuming licenses. "
}

```
            },
            "AssociationTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {

    "smithy.api#documentation": "<p>Time when the license configuration was associated with the resource.</p>"
                }
            },
            "AmiAssociationScope": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes an association with a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
        "type": "enum",
        "members":
{
            "AVAILABLE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "AVAILABLE"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DISABLED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
        "type": "structure",
        "members": {
            "ResourceArn": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits":
{
"smithy.api#documentation": " Type of resource. "
}
},
"ResourceStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was initially associated with the resource. "
}
},

"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"

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        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurations": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfiguration"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionContext": {

  "type": "structure",
        "members": {
            "UsageOperation": {
                "target": "com.amazonaws.licensemanager#UsageOperation",
                "traits": {
                    "smithy.api#documentation": "<p>The Usage operation value that corresponds to the license type you
are converting your resource from.  For more information about which platforms correspond to which usage
operation values see <a href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-
fields.html#billing-info\">Sample data: usage operation by platform\n      </a>\n         </p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTask": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {

     "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the license type conversion task.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource associated
with the license type\n         conversion task.</p>"
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license type this conversion task converted
from.</p>"
```

```
            }
        },
        "DestinationLicenseContext": {
            "target":
 "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license type this conversion task converted
to.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
            "traits": {
                "smithy.api#documentation": "<p>The status of the conversion task.</p>"
            }
        },
        "StatusMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
        },
        "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation":
 "<p>The time the conversion task was started at.</p>"
            }
        },
        "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>The time the usage operation value of the resource was
changed.</p>"
            }
        },
        "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseConversionTaskId": {
```

```
        "type": "string",
        "traits": {

       "smithy.api#length": {
            "min": 0,
            "max": 50
          },
          "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
        "type": "enum",
        "members": {
          "IN_PROGRESS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "IN_PROGRESS"
            }
          },
          "SUCCEEDED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "SUCCEEDED"
            }
          },
          "FAILED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "FAILED"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTasks":
  {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#LicenseConversionTask"
        }
      },
      "com.amazonaws.licensemanager#LicenseCountingType": {
        "type": "enum",
        "members": {
          "VCPU": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "vCPU"
            }
```

```
        },
        "INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Instance"
            }
        },
        "CORE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Core"
            }
        },
        "SOCKET": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Socket"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {
    "type": "enum",
    "members": {
        "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {

    "type": "structure",
    "members": {
```

"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Resource type. "
}
},
"ErrorMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Error message. "
}
},
"FailureTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " Failure time. "
}
},
"OperationName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the operation. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource. "
}
},
"OperationRequestedBy": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The requester is \"License Manager Automated Discovery\". "
}
},
"MetadataList": {

"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {

"smithy.api#documentation": " Reserved. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the failure of a license operation. "
}
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailure"
}
},
"com.amazonaws.licensemanager#LicenseSpecification": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",

"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseSpecification"
}
},
"com.amazonaws.licensemanager#LicenseStatus": {
"type": "enum",
"members": {
"AVAILABLE": {

"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "AVAILABLE"
}
},
"PENDING_AVAILABLE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_AVAILABLE"
}
},
"DEACTIVATED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DEACTIVATED"
}
},
"SUSPENDED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SUSPENDED"
}
},
"EXPIRED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "EXPIRED"
}
},

"PENDING_DELETE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_DELETE"
}
},
"DELETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DELETED"
}
}
}
},
"com.amazonaws.licensemanager#LicenseUsage": {
"type": "structure",
"members": {

"EntitlementUsages": {
"target": "com.amazonaws.licensemanager#EntitlementUsageList",
"traits": {
"smithy.api#documentation": " License entitlement usages. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the entitlement usage associated with a license. "

}
},
"com.amazonaws.licensemanager#LicenseUsageException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "LicenseUsageFailure",
"httpResponseCode": 412
},
"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"

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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the resource associations for the
 specified license configuration.</p>\n        <p>Resource associations need not consume licenses from a license
configuration. \n        For example, an AMI or a stopped instance might not consume a license (depending on \n
the license rules).</p>"
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results
 to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
        "type": "structure",
```

"members": {
"LicenseConfigurationAssociations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license configuration. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants distributed for the specified license. "
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranteePrincipalARN</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",

"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",

"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configuration operations that failed. "
}

```
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
      "type": "structure",
      "members": {
        "LicenseConfigurationArn": {
          "target": "com.amazonaws.licensemanager#String",
           "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
            "smithy.api#required": {}
          }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#BoxInteger",
          "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse":
{
      "type": "structure",
      "members": {
        "LicenseOperationFailureList": {
          "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
          "traits": {
            "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
```

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    },
    "com.amazonaws.licensemanager#ListLicenseConfigurations": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },

    "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations
 for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
```

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next
set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical
operators\n are supported: \n \n \n \n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n
\n <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>. \n
\n \n \n <code>usagelimitExceeded</code> - A Boolean value that
indicates whether the available licenses have been exceeded. \n Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
"type": "structure",
"members": {
"LicenseConfigurations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurations",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasks": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license type conversion tasks for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
"type": "structure",
"members": {
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}

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            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>\n        Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n      </p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTasks": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configuration tasks for your
 account.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
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"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the report generators for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest":
{
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported:
\n \n \n \n <code>LicenseConfigurationArn</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits":
{
"smithy.api#documentation": " Maximum number of results to return in a single call. "

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                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
            "ReportGenerators": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorList",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }

        }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
```

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Describes the license configurations for the specified resource. "
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a resource that has an associated license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {
"LicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " License configurations associated with a resource. "
}
},

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        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
```

```
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
                "smithy.api#documentation": "<p>License details.</p>"
            }
          },

"NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenses": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicensesRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicensesResponse"
        },
```

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses for your account. "
}
},
"com.amazonaws.licensemanager#ListLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>Status</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token

for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#LicenseList",
"traits": {
"smithy.api#documentation": " License details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists grants that are received. Received grants are grants created while specifying the\n recipient as this Amazon Web Services account, your organization, or an organizational unit\n (OU) to which this member account belongs. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},

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            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants received for all accounts in the organization.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the received license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n
    <ul>\n        <li>\n            <p>\n                <code>ParentArn</code>\n            </p>\n        </li>\n
<li>\n            <p>\n                <code>GranteePrincipalArn</code>\n            </p>\n        </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
```

"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Lists the grants the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranterAccountId</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},

```
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
    "type": "structure",
    "members": {
        "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
             "traits": {
                "smithy.api#documentation": "<p>Received grant details.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
         },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists received licenses.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {

    "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
```

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses received for all accounts in the organization. "
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#GrantedLicenseList",
"traits": {
"smithy.api#documentation": " Lists the licenses the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>IssuerName</code>\n \n \n \n \n <code>Beneficiary</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
"type": "structure",

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    "members": {
      "Licenses": {
        "target": "com.amazonaws.licensemanager#GrantedLicenseList",
        "traits": {
          "smithy.api#documentation": "<p>Received license details.</p>"
        }
      },

      "NextToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#ListResourceInventory": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#FailedDependencyException"
      },
      {
        "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
```

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            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                 "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#InventoryFilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource.\n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                    <code>application_name</code> - The name of the application. \n                Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n    </li>\n            <li>\n                <p>\n                    <code>license_included</code> - The type of license included. \n            Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n                Possible values are <code>sql-server-enterprise</code> | \n                <code>sql-server-standard</code> | \n                <code>sql-server-web</code> |  \n                <code>windows-server-datacenter</code>.</p>\n            </li>\n            <li>\n    <p>\n                    <code>platform</code> - The platform of the resource.\n                Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n            </li>\n            <li>\n                <p>\n        <code>resource_id</code> - The ID of the resource. \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n      <code>tag:<key></code> - The key/value combination of a tag assigned \n                to the resource. Logical operators are <code>EQUALS</code> (single account) or\n                <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account).</p>\n            </li>\n        </ul>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
```

"com.amazonaws.licensemanager#ListResourceInventoryResponse": {
"type": "structure",
"members": {
"ResourceInventoryList": {
"target": "com.amazonaws.licensemanager#ResourceInventoryList",
"traits": {
"smithy.api#documentation": " Information
about the resources. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListTagsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the tags for the specified license configuration. "

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        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the tags.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors":
[
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
            "TokenIds": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {

                  "smithy.api#documentation": "<p>Token IDs.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
    <ul>\n        <li>\n        <p>\n        <code>LicenseArns</code>\n        </p>\n        </li>\n
</ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation":
 "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
```

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            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokensResponse": {
        "type": "structure",
        "members": {
            "Tokens": {
                "target": "com.amazonaws.licensemanager#TokenList",
                "traits": {
                    "smithy.api#documentation": "<p>Received token details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying license\n        consumption details by resource at a selected point in time. Use this action to audit the\n        current license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>resourceArn</code> - The ARN of the license configuration resource.\n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>resourceAccount</code> - The ID of the account that owns the resource. \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
                }
            }
```

```
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
        "type": "structure",
        "members": {

"LicenseConfigurationUsageList": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Location": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#Long": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#ManagedResourceSummary": {
        "type": "structure",
        "members": {
            "ResourceType":
{
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
                }
            },
            "AssociationCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
                }
            }
```

```
    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {

"type": "integer",
    "traits": {
        "smithy.api#range": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The key name.</p>"
            }
        },

"Value": {
            "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " The value. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes key/value pairs. "
}
},
"com.amazonaws.licensemanager#MetadataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Metadata"
}
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#Options": {
"type": "structure",
"members": {
"ActivationOverrideBehavior": {
"target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
"traits": {
"smithy.api#documentation": " An activation option for your grant that determines the behavior of activating a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter. \n \n \n As a license administrator, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant. \n \n \n As a grantor, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your organization. \n \n \n As a grantee, if the grantor creating the distributed grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n are activating the grant. \n \n \n <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n Use this value to activate a grant without replacing any member accounts\n active grants for the same product. \n </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n Use this value to activate a

grant and disable other active grants in any\n member accounts
for the same product. This action will also replace their\n previously activated grants with this activated grant. \n </dd>\n </dl>"
}
}
},
"traits": {
"smithy.api#documentation": " The options you can specify when you create a new version of a grant, such as activation\n override behavior. For more information, see Granted licenses in License Manager in the License Manager User Guide. "
}
},
"com.amazonaws.licensemanager#OrganizationConfiguration": {
"type": "structure",
"members": {
"EnableIntegration": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#default": false,
"smithy.api#documentation": " Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n <code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n \n ",
"smithy.api#required": {}
}
}
},

```
    "traits": {
        "smithy.api#documentation": "<p>Describes product information for a license configuration.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
    "type": "structure",
    "members": {
        "ProductInformationFilterName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Filter name.</p>",
                "smithy.api#required": {}
            }
        },
        "ProductInformationFilterValue": {
            "target": "com.amazonaws.licensemanager#StringList",

      "traits": {
                "smithy.api#documentation": "<p>Filter value.</p>"
            }
        },
        "ProductInformationFilterComparator": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Logical operator.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes product information filters.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformationFilter"
    }
},
"com.amazonaws.licensemanager#ProductInformationList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformation"
     }
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
    "type": "structure",
    "members": {
```

"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the provisional configuration, in minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"com.amazonaws.licensemanager#RateLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "RateLimitExceeded",
"httpResponseCode": 429
},
"smithy.api#documentation": " Too many requests have been submitted. Try again after a brief wait. ",
"smithy.api#error": "client",
"smithy.api#httpError": 429
}
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
"type": "structure",
"members": {
"ReceivedStatus": {
"target": "com.amazonaws.licensemanager#ReceivedStatus",
"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Received status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",

"traits": {
"smithy.api#documentation": " Allowed operations. "
}
}
},
"traits": {
"smithy.api#documentation": " Metadata associated with received licenses and grants. "
}
},
"com.amazonaws.licensemanager#ReceivedStatus": {
"type": "enum",
"members": {
"PENDING_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_WORKFLOW"
}
},
"PENDING_ACCEPT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue":
"PENDING_ACCEPT"
}
},
"REJECTED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REJECTED"
}
},
"ACTIVE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ACTIVE"
}
},
"FAILED_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "FAILED_WORKFLOW"
}
},
"DELETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DELETED"
}

```
        },
        "DISABLED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DISABLED"
            }
        },
        "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#RedirectException": {
    "type": "structure",
    "members": {
        "Location": {
            "target": "com.amazonaws.licensemanager#Location",
            "traits": {
                "smithy.api#httpHeader": "Location"
            }
        },
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 308
    }
},
"com.amazonaws.licensemanager#RejectGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#RejectGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#RejectGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}

  }
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
```

"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#RenewType":
{
"type": "enum",
"members": {
"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"WEEKLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Weekly"
}
},
"MONTHLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Monthly"
}
}
}
},
"com.amazonaws.licensemanager#ReportContext": {
"type": "structure",
"members": {
"licenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details of the license configuration that this generator reports on. "
}
},
"com.amazonaws.licensemanager#ReportFrequency": {
"type": "structure",
"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "
}
},
"period": {
"target": "com.amazonaws.licensemanager#ReportFrequencyType",

"traits": {
"smithy.api#documentation": " Time period between each report. The period can be daily, weekly, or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"com.amazonaws.licensemanager#ReportFrequencyType": {
"type": "enum",
"members": {
"DAY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DAY"
}
},
"WEEK": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "WEEK"
}
},

"MONTH": {
"target": "smithy.api#Unit",
"traits":
{
"smithy.api#enumValue": "MONTH"
}
}
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the report generator. "
}
},
"ReportType": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports that are generated. "
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " License
configuration type for this generator. "
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. "
}
},
"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}

},
"LastRunFailureReason":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Failure message for the last report generation attempt. "
}
},
"LastReportGenerationTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the last report was generated at. "
}
},
"ReportCreatorAccount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Web Services account ID used to create the report generator. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the report was created. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags associated with the report generator. "
}

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}
    },
    "traits": {
        "smithy.api#documentation": "<p>Describe the details of a report generator.</p>"
    }
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportGenerator"
    }
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#ReportType": {
    "type": "enum",
    "members": {
        "LICENSE_CONFIGURATION_SUMMARY_REPORT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "LicenseConfigurationSummaryReport"
            }

},
        "LICENSE_CONFIGURATION_USAGE_REPORT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "LicenseConfigurationUsageReport"
            }
        }
    }
},
"com.amazonaws.licensemanager#ReportTypeList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportType"
    }
},
"com.amazonaws.licensemanager#ResourceInventory": {
    "type": "structure",
    "members": {
```

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            "ResourceId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits":
{
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "Platform": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform of the resource.</p>"
                }
            },
            "PlatformVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
                }
            },
            "ResourceOwningAccountId":
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ResourceInventoryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ResourceInventory"
        }
```

```
},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "ResourceLimitExceeded",

         "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>Your resource limits have been exceeded.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "InvalidResource.NotFound",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The resource cannot be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceType": {
    "type": "enum",
     "members": {
        "EC2_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_INSTANCE"
            }
        },
        "EC2_HOST": {
            "target": "smithy.api#Unit",
            "traits": {
```

"smithy.api#enumValue": "EC2_HOST"
}
},
"EC2_AMI": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "EC2_AMI"
}
},
"RDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "RDS"
}
},
"SYSTEMS_MANAGER_MANAGED_INSTANCE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
}
}
}
},
"com.amazonaws.licensemanager#S3Location": {
"type": "structure",
"members": {
"bucket": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the S3 bucket reports are published to. "
}
},
"keyPrefix": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Prefix of the S3 bucket reports are published to. "
}
}
},
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
"type": "structure",
"members": {
"Message": {

```
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "aws.protocols#awsQueryError": {
            "code": "InternalError",
            "httpResponseCode": 500
          },
          "smithy.api#documentation": "<p>The server experienced an internal error. Try again.</p>",
          "smithy.api#error": "server",
          "smithy.api#httpError": 500
        }
      },
      "com.amazonaws.licensemanager#SignedToken": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 4096
          }
        }
      },
      "com.amazonaws.licensemanager#StatusReasonMessage": {
        "type": "string",
        "traits":
{
          "smithy.api#length": {
            "min": 0,
            "max": 400
          },
          "smithy.api#pattern": "^[\\s\\S]+$"
        }
      },
      "com.amazonaws.licensemanager#String": {
        "type": "string"
      },
      "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#String"
        }
      },
      "com.amazonaws.licensemanager#Tag": {
        "type": "structure",
        "members": {
          "Key": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Tag key.</p>"
```

```
            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation":
"<p>Tag value.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#String"
        }
      },
      "com.amazonaws.licensemanager#TagList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#Tag"
        }
      },
      "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
          {
            "target":
"com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
```

```
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits":
 {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>One or more tags.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
```

"TokenType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Type of token generated. The supported value is <code>REFRESH_TOKEN</code>. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"ExpirationTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Token expiration time, in ISO8601-UTC format. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller. "
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the roles included in the token. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. "
}
}
},
"traits": {

"smithy.api#documentation": " Describes a token. "
}
},
"com.amazonaws.licensemanager#TokenList": {
"type": "list",

"member": {
"target": "com.amazonaws.licensemanager#TokenData"
}
},
"com.amazonaws.licensemanager#TokenString": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 4096
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#TokenType": {
"type": "enum",
"members": {
"REFRESH_TOKEN": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REFRESH_TOKEN"
}
}
}
},
"com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException":
{
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The digital signature method is unsupported. Try your request
again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#UntagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UntagResourceResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Removes the specified tags from the specified license configuration. "
}
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",
"traits": {
"smithy.api#documentation": " Keys identifying the tags to remove. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
"type": "structure",
"members": {},

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Modifies the attributes of an existing license configuration. "
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},

"LicenseConfigurationStatus": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
"traits": {
"smithy.api#documentation": " New status of the license configuration. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " New license rule. The only rule that you can add after you create a license\n configuration is licenseAffinityToHost. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " New number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",

"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
},
"traits":
{
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},

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            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates a report generator.</p>\n        <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to update.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportGeneratorName": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>",
                    "smithy.api#required": {}
                }
            },
            "Type": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports to generate. The following report types are supported:</p>\n        <ul>\n            <li>\n                <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p>\n            </li>\n            <li>\n                <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n            </li>\n        </ul>",
                    "smithy.api#required": {}
                }
            },
            "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
                    "smithy.api#documentation": "<p>The report context.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportFrequency": {
                "target": "com.amazonaws.licensemanager#ReportFrequency",
```

"traits":
{
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },

            {
                "target": "com.amazonaws.licensemanager#InvalidResourceStateException"
            },
            {
                "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p>\n        <p>You can update the license specifications of AMIs, instances, and
hosts.\n        You cannot update the license specifications for launch templates and CloudFormation templates, \n
  as they send license configurations to the operation that creates the resource.</p>"
        }
    },

    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "AddLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
                }
            },
            "RemoveLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation":
 "<p>ARNs of the license configurations to remove.</p>"
                }
```

```
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {},
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
    }
},
"com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
    "type": "structure",
    "members": {
        "S3BucketArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon S3 bucket where the License
Manager information is stored. "
}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Enables integration with Organizations for cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Activates cross-account discovery. "

}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UsageOperation": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
}
}
},
"com.amazonaws.licensemanager#ValidationException": {

```
            "type": "structure",
            "members": {
                "Message": {
                    "target": "com.amazonaws.licensemanager#Message"
                }
            },
            "traits": {
                "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",

        "smithy.api#error": "client",
                "smithy.api#httpError": 400
            }
        }
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {
```

```
 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version
 of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack,
 options); err != nil {
  return err
```

```
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if
 err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
```

```
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
```

1.3921 enterprise-certificate-proxy 0.2.5

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1.3922 oras-go 1.2.4

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1.3923 aws-sdk-go-v2-service-sts 1.26.7

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```
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package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
```

```
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil,
 err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
```

```
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
if err !=
nil {
 return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack);
err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
```

AWS SDK for Go

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```
name: License Scan

on: [pull_request]

jobs:
 licensescan:
```

```
  name: License Scan
  runs-on: ubuntu-latest
  strategy:
    matrix:
      python-version: [3.9]

  steps:
    - name: Checkout target
      uses: actions/checkout@v2
      with:
        path: sdkbase
        ref: ${{ github.base_ref }}
    - name: Checkout this ref
      uses: actions/checkout@v2
      with:
        path: new-ref
        fetch-depth: 0
    - name: Get Diff
      run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
    - name: Get Target Files
      run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
       uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
```

```
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
```

```
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return
 err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckInLicense",
 }
}
{
   "smithy": "2.0",
   "shapes": {
       "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
```

"type": "integer"
},
"com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
"type": "long"
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of name to filter by. "
}
},
"Values": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " One or more values for the name to filter by. "
}
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"Operator": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
"traits": {
"smithy.api#documentation": " An operator for filtering results. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter object that is used to return more specific results from a describe operation.\n Filters can be used to match a set of resources by specific criteria. "
}
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"com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
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"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
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"output": {

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
},
"errors": [

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            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
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                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the Linux subscriptions service settings.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/GetServiceSettings"
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            "smithy.api#idempotent": {}
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    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest":
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        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "LinuxSubscriptionsDiscovery": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
                "traits": {
                    "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
                }
            },
            "LinuxSubscriptionsDiscoverySettings": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
                "traits": {
                    "smithy.api#documentation": "<p>Lists the settings defined for Linux subscriptions discovery. The
settings include if\n      Organizations integration has been enabled, and
 which Regions data will be aggregated from.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
                }
```

```
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
                "traits": {
                    "smithy.api#documentation": "<p>A message which details the Linux subscriptions service settings
current status.</p>"
                }
            },
            "HomeRegions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>The Region in which License Manager displays
 the aggregated data for Linux\n      subscriptions.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
        "type": "structure",
        "members": {
            "AmiId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The AMI ID used to launch the instance.</p>"
                }
            },
            "InstanceID": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The instance ID of the resource.</p>"
                }
            },
            "InstanceType": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The instance type of the resource.</p>"
                }

        },
            "AccountID": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The account ID which owns the instance.</p>"
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
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"smithy.api#documentation": " The status of the instance. "
}
},
"Region": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The Region the instance is running in. "
}
},
"UsageOperation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The usage operation of the instance. For more information, see For more information, see\n Usage\n operation values in the License Manager User Guide. "
}
},
"ProductCode": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
"traits": {
"smithy.api#documentation": " The product code for the instance. For more information, see Usage\n operation values in the License Manager User Guide . "
}
},
"LastUpdatedTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The time in which the last discovery updated the instance details. "
}
},
"SubscriptionName": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription being used by the instance. "
}
}
},
"traits": {
"smithy.api#documentation": " Details discovered information about a running instance using Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
"type": "list",
"member": {

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        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
    "type": "structure",
    "members": {
        "message": {
            "target": "smithy.api#String"
         }
    },
    "traits": {
        "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
        "smithy.api#error": "server"
    }
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"com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
    "type": "service",
    "version": "2018-05-10",
    "operations": [
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            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
        },
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            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
        }
    ],

"traits": {
        "aws.api#service": {
            "sdkId": "License Manager Linux Subscriptions",
            "arnNamespace": "license-manager-linux-subscriptions",
            "cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
        },
        "aws.auth#sigv4": {
            "name": "license-manager-linux-subscriptions"
        },
        "aws.protocols#restJson1": {},
        "smithy.api#cors": {
            "additionalAllowedHeaders": [
                "*",
                "content-type",
                "x-amz-content-sha256",
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"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",

"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"
]
},
"smithy.api#documentation": " With License Manager, you can discover and track your commercial Linux subscriptions on running\n Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager Linux Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
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"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
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"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

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 "type": "Boolean"
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        "builtIn": "SDK::Endpoint",
        "required": false,
        "documentation": "Override the endpoint used to send this request",
        "type": "String"
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                "argv": [
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                        "ref": "Endpoint"
                    }
                ]
            }
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        "type": "tree",
        "rules": [
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          "conditions": [
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                                "ref": "UseFIPS"
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                        ]
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                "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
                "type": "error"
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                "conditions": [],
                "type": "tree",
                "rules": [
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              "conditions": [
                            {
                                "fn": "booleanEquals",
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                    "ref": "UseDualStack"
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              }
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            "type": "error"
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            "conditions": [],

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                "ref": "Endpoint"
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            "type": "endpoint"
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    "rules": [
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"argv": [
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                "ref": "Region"
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            ]
          }
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            "conditions": [
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                    "fn": "aws.partition",
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                            "argv": [
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                                    "ref": "UseFIPS"
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                            "argv": [
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                                    "ref": "UseDualStack"
                                },
                                true
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                                            "fn": "getAttr",
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                "argv": [
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                    {
                        "fn": "getAttr",
                        "argv": [
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                                "ref": "PartitionResult"
                            },

                        "supportsDualStack"
                        ]
                    }
                ]
            }
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        "rules": [
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                "type": "tree",
                "rules": [
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fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                            "properties": {},
                            "headers": {}
                        },
                        "type": "endpoint"
                    }
                ]
            }
        ]

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        "conditions": [],
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"error": "FIPS and DualStack are enabled, but this partition does not support one or both",
"type": "error"
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"argv": [
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{
"fn": "getAttr",
"argv": [
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"ref": "PartitionResult"
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"supportsFIPS"
]
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"conditions": [],
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"headers": {}

},
"type": "endpoint"
}
]
}
]
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{
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"error": "FIPS is enabled but this partition does not support FIPS",
"type": "error"
}
]

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{
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"argv": [
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"fn": "booleanEquals",
"argv": [
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"fn": "getAttr",
"argv": [
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"ref": "PartitionResult"

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                                "rules": [
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subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
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                                                    "headers": {}
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                                                "type": "endpoint"
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                                "type": "error"
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                                    "headers": {}
                                },
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"type": "endpoint"
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}
]
}
]
},
{
"conditions": [],
"error": "Invalid Configuration: Missing Region",
"type": "error"
}
]
}
]
},
"smithy.rules#endpointTests": {
"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": true
}
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"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {

"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
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"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",

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    "expect": {
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      }
    },
    "params": {
      "Region": "us-east-1",
      "UseFIPS": false,
       "UseDualStack": true
    }
  },
  {
    "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "us-east-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
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    "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "endpoint": {

    "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
      }
    },
    "params": {
      "Region": "cn-north-1",
      "UseFIPS": true,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
      }
    },
    "params": {
      "Region": "cn-north-1",
      "UseFIPS": true,
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"UseDualStack": false
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},
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"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
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"url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
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"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
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"url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
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"UseDualStack": true
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"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"

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            }
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        "params": {
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            "UseFIPS": true,
            "UseDualStack": false
        }
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        "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
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{
                "url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
            }
        },
        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
            "UseDualStack": true
        }
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        "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
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                "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
             "UseDualStack": false
        }
    },
    {
        "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
        "expect": {
            "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
        },
        "params": {
            "Region": "us-iso-east-1",
            "UseFIPS": true,
            "UseDualStack": true
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    },
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        "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
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"expect": {
"endpoint": {
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},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{

"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {

"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
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            {
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              "expect": {
                "endpoint": {
                  "url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
                }
              },
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                "UseFIPS": true,
                "UseDualStack": false
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and DualStack enabled",
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                "UseFIPS": false,
                "UseDualStack": true
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            },
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              "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
                }
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              "params": {
                "Region": "us-isob-east-1",

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                "UseDualStack": false
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              "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://example.com"
                }
              },
              "params": {
                "Region": "us-east-1",
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"UseFIPS": false,
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"Endpoint": "https://example.com"
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"Endpoint": "https://example.com"
}
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"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
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"params": {
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"UseFIPS": true,
"UseDualStack": false,

"Endpoint": "https://example.com"
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"expect": {
"error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
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"Endpoint": "https://example.com"
}
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{
"documentation": "Missing region",
"expect": {

"error": "Invalid Configuration: Missing Region"
}

}
],
"version": "1.0"
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "Enabled",
"value": "Enabled",
"documentation": "Enabled LinuxSubscriptionsDiscovery"
},
{
"name": "Disabled",
"value": "Disabled",
"documentation": "Disabled LinuxSubscriptionsDiscovery"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
"type": "structure",
"members": {
"SourceRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Regions in which to discover data for Linux subscriptions. ",
"smithy.api#required": {}
}
},
"OrganizationIntegration": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
"traits": {
"smithy.api#documentation": " Details if you have enabled resource discovery across your accounts in Organizations. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Lists the settings defined for discovering Linux subscriptions. "

}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
"type":
"operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the running Amazon EC2 instances that were discovered with commercial Linux\n subscriptions. ",
"smithy.api#http": {

"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptionInstances"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Instances"
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by

the name of\n <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n match, or don't match a certain Amazon Machine Image (AMI) ID. \n The valid names for this filter are: \n \n \n \n <code>AmiID</code>\n \n \n \n \n <code>InstanceID</code>\n \n \n \n \n <code>AccountID</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Region</code>\n \n \n \n \n <code>UsageOperation</code>\n \n \n \n \n <code>ProductCode</code>\n \n \n \n \n <code>InstanceType</code>\n \n \n \n The valid Operators for this filter are: \n \n \n \n <code>contains</code>\n \n \n \n \n <code>equals</code>\n \n \n \n \n <code>Notequal</code>\n \n \n "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "

}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. ",
"smithy.api#length": {
"min": 1,
"max": 16384
}
}
}
},
"traits": {
"smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
"type": "structure",
"members": {
"Instances": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
"traits": {
"smithy.api#documentation":
" An array that contains instance objects. "
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions that have been discovered. If you have linked your\n organization, the returned results will include data aggregated across your accounts in\n Organizations. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptions"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Subscriptions"
}

}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
"type": "structure",

"members": {
"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>Subscription</code> with an optional operator to see subscriptions that match,\n partially match, or don't match a certain subscription's name. \n The valid names for this filter are: \n \n \n \n <code>Subscription</code>\n \n \n \n The valid Operators for this filter are: \n \n \n \n <code>contains</code>\n \n \n \n \n <code>equals</code>\n \n \n \n \n <code>Notequal</code>\n \n \n "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. ",
"smithy.api#length": {

"min": 1,
"max": 16384
}
}
}
},
"traits": {
"smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
"type": "structure",
"members": {
"Subscriptions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
"traits": {
"smithy.api#documentation": " An array that contains subscription objects. "
}
},
"NextToken": {

"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for
the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "EQUAL",
"value": "Equal",
"documentation": "Equal operator"
},
{
"name": "NOT_EQUAL",
"value": "NotEqual",
"documentation": "Not equal operator"
},
{
"name": "CONTAINS",
"value": "Contains",
"documentation": "Contains operator"
}
],
"smithy.api#length": {
"min": 1,
"max": 20
}
}
},

"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "Enabled",
"value": "Enabled",
"documentation": "Enabled OrganizationIntegration"
},
{
"name": "Disabled",
"value": "Disabled",
"documentation": "Disabled OrganizationIntegration"

```
                }
            ]
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
        "type": "list",
        "member": {
            "target": "smithy.api#String"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [

   {
                "name": "InProgress",
                "value": "InProgress",
                "documentation": "InProgress status"
            },
            {
                "name": "Completed",
                "value": "Completed",
                "documentation": "Completed status"
            },
            {
                "name": "Successful",
                "value": "Successful",
                "documentation": "Successful status"
            },
            {
                "name": "Failed",
                "value": "Failed",
                "documentation": "Failed status"
            }
            ]
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
        "type": "list",
        "member": {
            "target": "smithy.api#String",
            "traits":
{
                "smithy.api#length": {
                    "min": 1,
                    "max": 100
                }
```

```
            }
        },
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max": 100
            },
            "smithy.api#uniqueItems": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
        "type": "map",
        "key": {
            "target": "smithy.api#String"
        },
        "value": {
            "target": "smithy.api#String"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the subscription.</p>"

        }
            },
            "Type": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own\n      Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the\n      Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS.</p>"
                }
            },
            "InstanceCount": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>The total amount of running instances using this subscription.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>An object which details a discovered Linux
```

subscription. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request was denied due to request throttling. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
},

"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates the service settings for Linux subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/UpdateServiceSettings"
},

"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest":
{
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Describes if the discovery of Linux subscriptions is enabled. ",
"smithy.api#required": {}
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. ",

"smithy.api#required": {}
}
},
"AllowUpdate": {
"target": "smithy.api#Boolean",
"traits": {
"smithy.api#documentation": " Describes if updates are allowed to the service settings for Linux subscriptions. If you\n allow updates, you can aggregate Linux subscription data in more than one home Region. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},

"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The

settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation":
" A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The provided input is not valid. Try your request again. ",
"smithy.api#error": "client"
}
}
}
}

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - Beneficiary
 //   - ProductSKU
 //   - Fingerprint
 //
   - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {
```

```
 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if
 err := addProtocolFinalizerMiddlewares(stack, options, "ListLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
```

```
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
```

```
    ServiceID,
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 //
 This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string
```

```
 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack,
 options, "DisassociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
```

```
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
```

```
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
```

```
CheckoutLicenseInput struct {

// Checkout type.
//
// This member is required.
CheckoutType types.CheckoutType

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string
```

```
// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource
Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil
 {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
```

```
 return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier
 that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string
```

```
 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return
 err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
```

```
 return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide
 to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
```

```
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity
 *types.DatetimeRange

 // Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
  return fmt.Errorf("add
 protocol finalizers: %v", err)
 }
```

```
if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
```

```
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName:
 "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
```

```
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
```

```
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return
err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack);
err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
```

```
err != nil {
 return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "GetLicense",
 }
}
```

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```
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(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
   - ProductSKU
 //   - Status
 //   - Fingerprint
 //   - IssuerName
```

```
//   - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
 middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
```

```
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack);
err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
 }
}
```

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```
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
```

```
        },
        "traits": {
            "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
        "type": "structure",
        "members": {
            "DirectoryId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
"<p>Details about an Active Directory identity provider.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
        },
        "errors": [
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                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Associates the user to an EC2 instance to utilize user-based
subscriptions.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related
costs will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing
status) in Amazon Web Services Billing. For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n
        monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/AssociateUser"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the
 EC2 instance, which provides user-based subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>The identity provider of the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
```

```
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
        "type": "structure",
        "members": {
            "InstanceUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
                 "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
        "type": "integer"
    },
    "com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request couldn't be completed because it conflicted with the current
state of the\n      resource.</p>",
            "smithy.api#error": "server"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider":
 {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deregisters the identity provider from providing user-based
subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/DeregisterIdentityProvider"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
        "type": "structure",
```

"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation":
" Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Disassociates the user from an EC2 instance providing user-based
subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",

```
                "uri": "/user/DisassociateUser"
            },
            "smithy.api#idempotent": {}
        }

    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation":
 "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
        "type": "structure",
        "members": {
            "InstanceUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
                    "smithy.api#required": {}
```

```
                }
            }
        }
    },

"com.amazonaws.licensemanagerusersubscriptions#Filter": {
        "type": "structure",
        "members": {
            "Attribute": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of an attribute to use as a filter.</p>"
                }
            },
            "Operation": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The type of search (For example, eq, geq, leq)</p>"
                }
            },
            "Value": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Value of the filter.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A filter name and value pair that is used
 to return more specific results from a describe\n      operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n      attributes, or IDs.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#FilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
        "type": "union",
        "members": {
            "ActiveDirectoryIdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that details an Active Directory identity provider.</p>"
                }
            }
```

```
        },
        "traits": {
            "smithy.api#documentation":
 "<p>Details about an identity provider.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Settings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
                "traits": {
                    "smithy.api#documentation": "<p>An object that details the registered identity providers product
related configuration\n      settings such as the subnets to provision VPC endpoints.</p>",
                    "smithy.api#required":
 {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status of an identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "FailureMessage": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The failure message associated with an identity provider.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
```

" Describes an identity provider. "
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
                    "smithy.api#required": {}
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": " The status of an EC2 instance resource. ",
                    "smithy.api#required": {}
                }
            },
            "Products": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
                "traits": {
                    "smithy.api#documentation": " A list of provided user-based subscription products. ",
                    "smithy.api#required": {}
                }
            },
            "LastStatusCheckDate": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": " The date of the last status check. "
                }
            },
            "StatusMessage": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": " The status message for an EC2 instance. "
                }

```
    }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes an EC2 instance providing user-based subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits":
 {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status of a user associated with an EC2 instance.</p>",
                    "smithy.api#required": {}
                }
            },
            "StatusMessage": {
                "target": "smithy.api#String",
```

"traits": {
"smithy.api#documentation": " The status message for users of an EC2 instance. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"AssociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was associated with an EC2 instance. "
}
},
"DisassociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was disassociated from an EC2 instance. "
}
}

},
"traits": {
"smithy.api#documentation": " Describes users of an EC2 instance providing user-based subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " An exception occurred with the service. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {

"type": "service",

"version": "2018-05-10",
"operations": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
}
],
"traits": {
"aws.api#service": {
"sdkId": "License Manager User Subscriptions",
"arnNamespace": "license-manager-user-subscriptions",
"cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
},
"aws.auth#sigv4": {
"name": "license-manager-user-subscriptions"

},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",
"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"

]
},
"smithy.api#documentation": " With License Manager, you can create user-based subscriptions to utilize licensed software with\n a per user subscription fee on Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager User Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",

"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}

},
"rules": [
{
"conditions": [
{
"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
]
}
],
"type": "tree",
"rules": [
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
},

true
]
}
],
"error": "Invalid Configuration: FIPS and custom endpoint are not supported",
"type": "error"
},
{
"conditions": [
{
"fn": "booleanEquals",

"argv": [
{
"ref": "UseDualStack"
},
true
]
}
],

"error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
"type": "error"
},
{
"conditions": [],
"endpoint": {
"url": {
"ref": "Endpoint"
},
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
},
{
"conditions": [
{
"fn": "isSet",
"argv": [

{
"ref": "Region"
}
]
}
],
"type": "tree",
"rules": [
{
"conditions": [
{
"fn": "aws.partition",
"argv": [
{
"ref": "Region"
}
],

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                "assign": "PartitionResult"
            }
        ],
        "type": "tree",

    "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseFIPS"
                            },
                            true
                        ]
                    },
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseDualStack"

                            },
                            true
                        ]
                    }
                ],
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                "rules": [
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                        "conditions": [
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    true,
                                    {
                                        "fn": "getAttr",

"argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },
                                            "supportsFIPS"
                                        ]
                                    }
                                ]
                            },
```

```
                    {
                      "fn": "booleanEquals",
                      "argv": [
                        true,
                        {

"fn": "getAttr",
                          "argv": [
                            {
                              "ref": "PartitionResult"
                            },
                            "supportsDualStack"
                          ]
                        }
                      ]
                    }
                  ],
                  "type": "tree",
                  "rules": [
                    {

"conditions": [],
                      "endpoint": {
                        "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                        "properties": {},
                        "headers": {}
                      },
                      "type": "endpoint"
                    }
                  ]
                },
                {
                  "conditions": [],
                  "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
                   "type": "error"
                }
              ]
            },
            {
              "conditions": [
                {
                  "fn": "booleanEquals",
                  "argv": [
                    {
                      "ref": "UseFIPS"
                    },
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                    true
                ]
            }
        ],
        "type": "tree",

    "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
                            {
                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsFIPS"

                ]
                            }
                        ]
                    }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [],
                        "endpoint": {
                            "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                            "properties": {},
                            "headers": {}

        },
                        "type": "endpoint"
                    }
                ]
            },
            {
                "conditions": [],
                "error": "FIPS is enabled but this partition does not support FIPS",
                "type": "error"
            }
        ]
    },
```

```
{
    "conditions": [
        {
            "fn": "booleanEquals",
            "argv": [
                {
                    "ref": "UseDualStack"
                },
                true
            ]
        }
    ],
    "type": "tree",
    "rules": [
        {
            "conditions": [
                {
                    "fn": "booleanEquals",
                    "argv": [
                        true,
                        {

                          "fn": "getAttr",
                              "argv": [
                                  {
                                      "ref": "PartitionResult"
                                  },
                                  "supportsDualStack"
                              ]
                        }
                    ]
                }
            ],
            "type": "tree",
            "rules": [
                {

                    "conditions": [],
                    "endpoint": {
                        "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                        "properties": {},
                        "headers": {}
                    },
                    "type": "endpoint"
                }
            ]
        },
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{
"conditions": [],
"error": "DualStack is enabled but this partition does
not support DualStack",
"type": "error"
}
]
},
{
"conditions": [],
"endpoint": {
"url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
}
]
},
{
"conditions":
[],
"error": "Invalid Configuration: Missing Region",
"type": "error"
}
]
},
"smithy.rules#endpointTests": {
"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation":

"For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
}
},

"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with
FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
}
},

"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},

"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1
with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{

"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
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"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1
with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
}
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"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
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"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect":
{
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack":
true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"

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                }
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "error": "FIPS and DualStack are enabled, but
this partition does not support one or both"
            },
            "params": {
                "Region": "us-isob-east-1",
                "UseFIPS": true,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
                }
            },
            "params": {
                "Region": "us-isob-east-1",
                "UseFIPS": true,
                "UseDualStack": false
            }

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        {
            "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
                "error": "DualStack is enabled but this partition does not support DualStack"
            },
            "params": {
                "Region": "us-isob-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
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"endpoint": {
"url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,
"Endpoint": "https://example.com"

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                }
            },
            {
                "documentation": "For custom endpoint with fips disabled and dualstack enabled",
                "expect": {
                    "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
                },
                "params": {
                    "Region": "us-east-1",
                    "UseFIPS": false,
                    "UseDualStack": true,
                    "Endpoint": "https://example.com"
                }
            },
            {
                "documentation": "Missing region",
                "expect": {
                     "error": "Invalid Configuration: Missing Region"
                }
            }
        ],
        "version": "1.0"
    }
  }
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
     },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the identity providers for user-based subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/ListIdentityProviders"
            },
            "smithy.api#paginated":
{
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "IdentityProviderSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
{
        "type": "structure",
        "members": {
            "IdentityProviderSummaries": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
                "traits": {
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"smithy.api#documentation": " Metadata that describes the list identity providers operation. ",
"smithy.api#required": {}
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the EC2 instances providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",

"uri": "/instance/ListInstances"
},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "InstanceSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
"type": "structure",
"members": {
"InstanceSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list instances operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "

```
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
             }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the user-based subscription products available from an identity
provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListProductSubscriptions"
            },
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "ProductUserSummaries"
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            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name
 of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {

  "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match
 one or\n      more sets of key-value pairs that you specify.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
        "type": "structure",
        "members": {
            "ProductUserSummaries": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
```

"traits": {
"smithy.api#documentation": " Metadata that describes the list product subscriptions operation. "
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists user associations for an identity provider. ",

"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/ListUserAssociations"
},
"smithy.api#paginated":
{
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "InstanceUserSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
"type": "structure",
"members": {
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based
subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity
provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those
that match one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",

"traits": {
"smithy.api#documentation": " Token for
the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
"type": "structure",
"members": {
"InstanceUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list user association operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
"type": "structure",
"members": {

"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider of the user. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}

```
    },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status of a product for a user.</p>",
                    "smithy.api#required": {}
                }
            },
            "StatusMessage": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status message for a product for a user.</p>"
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            },
            "SubscriptionStartDate": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The
start date of a subscription.</p>"
                }
            },
            "SubscriptionEndDate": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The end date of a subscription.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The summary of the user-based subscription products for a user.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
        "type": "operation",
        "input": {
```

"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Registers an identity provider for user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/RegisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}

```
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Settings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
                "traits": {
                    "smithy.api#documentation": "<p>The registered identity providers product related configuration
settings such as the\n      subnets to provision VPC endpoints.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
        "type": "structure",
        "members": {
            "IdentityProviderSummary":
 {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the results of an identity provider
operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The resource couldn't be found.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 404
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
        "type": "string",
```

"traits": {
"smithy.api#length": {
"min": 5,
"max": 200
},
"smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request failed because a service quota is exceeded. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Settings": {
"type": "structure",
"members": {
"Subnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation":
" The subnets defined for the registered identity provider. ",
"smithy.api#length": {
"min": 1
},
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID that allows inbound TCP port 1688
communication between resources in\n your VPC and the VPC endpoint for activation servers. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings
such as the\n subnets to provision VPC endpoints, and the security group ID that
is associated with the VPC\n endpoints. The security group should permit inbound TCP port 1688
communication from resources\n in the VPC. "

```
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Starts a product subscription for a user with the specified identity
provider.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related costs
will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status)
in Amazon Web Services Billing.
 For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n          monthly
charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/StartProductSubscription"
            }
        }
    },
```

"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider of the user. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
"type": "structure",
"members": {
"ProductUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the start product subscription operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
"type": "operation",
"input": {

"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Stops a product subscription for a user with the specified identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/StopProductSubscription"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}

```
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required":
{}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
        "type": "structure",
        "members": {
            "ProductUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
                "traits": {
                    "smithy.api#documentation":
"<p>Metadata that describes the start product subscription operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StringList": {
        "type": "list",
        "member": {
            "target": "smithy.api#String"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Subnet": {
        "type": "string",
        "traits": {
            "smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
        }
```

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    },
    "com.amazonaws.licensemanagerusersubscriptions#Subnets": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
            "message": {

             "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request was denied because of request throttling. Retry the
request.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates additional product configuration settings for the registered
identity\n      provider.</p>",
            "smithy.api#http": {
                "code": 200,
```

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            "method": "POST",
            "uri": "/identity-provider/UpdateIdentityProviderSettings"
          },
          "smithy.api#idempotent": {}
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
        "type": "structure",
        "members": {
          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
             "traits": {
              "smithy.api#required": {}
            }
          },
          "Product": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
              "smithy.api#required": {}
            }
          },
          "UpdateSettings": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
            "traits": {
              "smithy.api#documentation": "<p>Updates the registered identity providers product related
configuration settings. You can\n      update any combination of settings in a single operation such as the:</p>\n
<ul>\n            <li>\n              <p>Subnets which you want to add to provision VPC endpoints.</p>\n            </li>\n
          <li>\n              <p>Subnets which you want to remove the VPC endpoints from.</p>\n            </li>\n
<li>\n              <p>Security group ID which permits traffic to the VPC endpoints.</p>\n            </li>\n        </ul>",
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
        "type": "structure",
        "members": {
          "IdentityProviderSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
            "traits": {
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
        "type": "structure",
```

"members": {
"AddSubnets": {

"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets in which License Manager will create a VPC endpoint for products that\n require connectivity to activation servers. ",
"smithy.api#required": {}
}
},
"RemoveSubnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets to remove. ",
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID that allows inbound TCP port 1688 communication between resources in\n your VPC and the VPC endpoints for activation servers. "
}
}
},
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings such as\n the subnets to provision VPC endpoints. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " A parameter is not valid. ",
"smithy.api#error": "client"
}
}
}
}
{
"smithy": "2.0",
"metadata": {

```
    "suppressions": [
      {
        "id": "HttpMethodSemantics",
        "namespace": "*"
      },
      {
        "id": "HttpResponseCodeSemantics",
        "namespace": "*"
      },
      {
        "id": "PaginatedTrait",
        "namespace": "*"
      },
      {
        "id": "HttpHeaderTrait",
        "namespace": "*"
      },
      {
        "id": "HttpUriConflict",
        "namespace": "*"
      },
      {
        "id": "Service",
        "namespace": "*"
      }
    ]
  },
  "shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
      "type": "service",
      "version": "2018-08-01",
      "operations": [
        {
          "target": "com.amazonaws.licensemanager#AcceptGrant"
        },

 {
          "target": "com.amazonaws.licensemanager#CheckInLicense"
        },
        {
          "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
        },
        {
          "target": "com.amazonaws.licensemanager#CheckoutLicense"
        },
        {
          "target": "com.amazonaws.licensemanager#CreateGrant"
        },
```

{
"target": "com.amazonaws.licensemanager#CreateGrantVersion"
},
{
"target": "com.amazonaws.licensemanager#CreateLicense"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseVersion"
},
{
"target": "com.amazonaws.licensemanager#CreateToken"
},
{
"target": "com.amazonaws.licensemanager#DeleteGrant"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicense"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#DeleteToken"
},
{
"target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

},
{
"target": "com.amazonaws.licensemanager#GetAccessToken"
},
{
"target": "com.amazonaws.licensemanager#GetGrant"
},
{
"target": "com.amazonaws.licensemanager#GetLicense"

},
{
"target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseUsage"
},
{
"target": "com.amazonaws.licensemanager#GetServiceSettings"
},
{
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#ListDistributedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
"target": "com.amazonaws.licensemanager#ListLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

"target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
{

"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization"
},
{
"target": "com.amazonaws.licensemanager#ListResourceInventory"
},
{
"target": "com.amazonaws.licensemanager#ListTagsForResource"
},
{
"target": "com.amazonaws.licensemanager#ListTokens"
},
{
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#RejectGrant"
},
{
"target": "com.amazonaws.licensemanager#TagResource"
},
{
"target": "com.amazonaws.licensemanager#UntagResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateServiceSettings"
}
],
"traits": {
"aws.api#service": {
"sdkId": "License Manager",
"arnNamespace": "license-manager",
"cloudFormationName": "LicenseManager",
"cloudTrailEventSource": "licensemanager.amazonaws.com",

"endpointPrefix": "license-manager"
},
"aws.auth#sigv4": {
"name": "license-manager"
},
"aws.protocols#awsJson1_1": {},
"smithy.api#documentation": " License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers. ",
"smithy.api#title": "AWS License Manager",
"smithy.api#xmlNamespace": {
"uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
},
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}
},
"rules": [
{
"conditions": [

```
            {
                "fn": "isSet",
                "argv": [
                    {
                        "ref": "Endpoint"
                    }
                ]

        }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseFIPS"
                            },
                            true
                        ]
                    }
                ],
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
                "type": "error"
            },
            {

"conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseDualStack"
                            },
                            true
                        ]
                    }
                ],
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                "type": "error"
            },
            {
                "conditions": [],
                "endpoint": {
                    "url": {
                        "ref": "Endpoint"
```

```
                    },
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ]
    },
    {
        "conditions": [
            {
                "fn": "isSet",
                "argv": [
                    {
                        "ref": "Region"
                    }
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "aws.partition",
                        "argv": [
                            {
                                "ref": "Region"
                            }
                        ],
                        "assign": "PartitionResult"
                    }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    {
                                        "ref":
"UseFIPS"
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                                    true
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                            },
                            {
```

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                "argv": [
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                  },
                  true
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            ],
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            "rules": [
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                "conditions": [
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                    "fn": "booleanEquals",
                    "argv": [
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                      {
                        "fn": "getAttr",
                        "argv": [
                          {
                            "ref": "PartitionResult"
                          },
                          "supportsFIPS"
                        ]

                }
                    ]
                  },
                  {
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                    "argv": [
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                      {
                        "fn": "getAttr",
                        "argv": [
                          {
                            "ref": "PartitionResult"
                          },

"supportsDualStack"
                        ]
                      }
                    ]
                  }
                ],
                "type": "tree",
                "rules": [
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                    {
                        "conditions": [],
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fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                            "properties": {},
                            "headers": {}

                }},
                        "type": "endpoint"
                    }
                ]
            },
            {
                "conditions": [],
                "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
                "type": "error"
            }
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    {
        "conditions": [
            {
                "fn": "booleanEquals",

      "argv": [
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                    },
                    true
                ]
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        "type": "tree",
        "rules": [
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                "conditions": [
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                        "argv": [
                            true,

{
                        "fn": "getAttr",
                        "argv": [
                            {
                                "ref": "PartitionResult"
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                    },
                    "supportsFIPS"
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            }
        ]
    }
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"rules": [

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            "properties": {},
            "headers": {}
        },
        "type": "endpoint"
    }
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"error": "FIPS is enabled but this
partition does not support FIPS",
"type": "error"
}
]
},
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{
"fn": "booleanEquals",
"argv": [
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"ref": "UseDualStack"
},
true
]
}
],
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"rules": [
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
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                                    {
                                        "fn": "getAttr",
                                        "argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },

    "supportsDualStack"
                                        ]
                                    }
                                ]
                            }
                        ],
                        "type": "tree",
                        "rules": [
                            {
                                "conditions": [],
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                                    "url": "https://license-
manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                    "properties": {},
                                    "headers": {}

                        },
                                "type": "endpoint"
                            }
                        ]
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                    {
                        "conditions": [],
                        "error": "DualStack is enabled but this partition does not support DualStack",
                        "type": "error"
                    }
                ]
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            {
                "conditions": [],
                "endpoint": {
                    "url": "https://license-manager.{Region}.{PartitionResult#dnsSuffix}",
                     "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ]
    }
]
```

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            },
            {
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              "error": "Invalid Configuration: Missing Region",
              "type": "error"
            }
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        },
        "smithy.rules#endpointTests": {
          "testCases": [
            {
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              "expect": {
                "endpoint":
{
                  "url": "https://license-manager.af-south-1.amazonaws.com"
                }
              },
              "params": {
                "Region": "af-south-1",
                "UseFIPS": false,
                "UseDualStack": false
              }
            },
            {
              "documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager.ap-east-1.amazonaws.com"
                }
              },
              "params": {
                "Region": "ap-east-1",
                "UseFIPS": false,
                "UseDualStack": false
               }
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              "documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager.ap-northeast-1.amazonaws.com"
                }
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              "params": {
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                "UseFIPS": false,
                "UseDualStack": false
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            "documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.ap-northeast-2.amazonaws.com"
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            "params": {
                "Region": "ap-northeast-2",
                "UseFIPS": false,
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            "documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
            "expect": {
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                    "url": "https://license-manager.ap-northeast-3.amazonaws.com"
                }
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            "params": {
                "Region": "ap-northeast-3",
                "UseFIPS": false,
                "UseDualStack": false
            }

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            "documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.ap-south-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "ap-south-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.ap-southeast-1.amazonaws.com"
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}
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"params": {
"Region": "ap-southeast-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-southeast-2.amazonaws.com"
}
},
"params": {
"Region": "ap-southeast-2",
"UseFIPS": false,
"UseDualStack": false
}
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"documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-southeast-3.amazonaws.com"
}
},
"params": {
"Region": "ap-southeast-3",
"UseFIPS": false,
"UseDualStack": false
}
},
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"documentation": "For region ca-central-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ca-central-1.amazonaws.com"
}
},

"params": {
"Region": "ca-central-1",
"UseFIPS": false,
"UseDualStack": false
}

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            },
            {
              "documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
              "expect": {
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                  "url": "https://license-manager.eu-central-1.amazonaws.com"
                }
              },
              "params": {
                "Region": "eu-central-1",
                "UseFIPS": false,
                "UseDualStack": false
              }
            },
            {
              "documentation": "For region eu-north-1 with FIPS
disabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager.eu-north-1.amazonaws.com"
                }
              },
              "params": {
                "Region": "eu-north-1",
                "UseFIPS": false,
                "UseDualStack": false
              }
            },
            {
              "documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager.eu-south-1.amazonaws.com"
                }
              },
              "params": {
                "Region":
"eu-south-1",
                "UseFIPS": false,
                "UseDualStack": false
              }
            },
            {
              "documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager.eu-west-1.amazonaws.com"
                }
```

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      },
      "params": {
        "Region": "eu-west-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
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    {
      "documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
      "expect": {

      "endpoint": {
          "url": "https://license-manager.eu-west-2.amazonaws.com"
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      },
      "params": {
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        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region eu-west-3 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.eu-west-3.amazonaws.com"
        }
      },
      "params": {
        "Region": "eu-west-3",
        "UseFIPS": false,

"UseDualStack": false
      }
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    {
      "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.me-south-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "me-south-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
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              "documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
              "expect": {
                "endpoint": {
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                }
              },
              "params": {
                "Region": "sa-east-1",
                "UseFIPS": false,
                "UseDualStack": false
              }
            },
            {
              "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager.us-east-1.amazonaws.com"
                }
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": false
              }

        },
            {
              "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager-fips.us-east-1.amazonaws.com"
                }
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false
              }
            },
            {
              "documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager.us-east-2.amazonaws.com"
                }
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},
"params": {
"Region": "us-east-2",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-east-2.amazonaws.com"
}
},
"params": {
"Region": "us-east-2",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region
us-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-west-1.amazonaws.com"
}
},
"params": {
"Region": "us-west-1",
"UseFIPS": false,
"UseDualStack": false
}
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{
"documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
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}
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"params": {

"Region": "us-west-1",
"UseFIPS": true,
"UseDualStack": false
}
},

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              "documentation": "For region us-west-2 with FIPS disabled and DualStack disabled",
              "expect": {
                "endpoint": {
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                }
              },
              "params": {
                "Region": "us-west-2",
                "UseFIPS": false,
                "UseDualStack": false
              }
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              "documentation": "For region us-west-2 with FIPS enabled and DualStack disabled",

"expect": {
                "endpoint": {
                  "url": "https://license-manager-fips.us-west-2.amazonaws.com"
                }
              },
              "params": {
                "Region": "us-west-2",
                "UseFIPS": true,
                "UseDualStack": false
              }
            },
            {
              "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager-fips.us-east-1.api.aws"
                }
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": true,

                "UseDualStack": true
              }
            },
            {
              "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager.us-east-1.api.aws"
                }
              },
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"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url":
"https://license-manager.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-northwest-1",
"UseFIPS": false,
"UseDualStack": false

}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
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"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
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"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
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{
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"expect": {
"endpoint": {
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}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
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"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
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"url": "https://license-manager.us-gov-east-1.amazonaws.com"
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"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",

"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-gov-west-1.amazonaws.com"
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"params": {
"Region": "us-gov-west-1",
"UseFIPS": false,
"UseDualStack": false
}
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{
"documentation":
"For region us-gov-west-1 with FIPS enabled and DualStack disabled",
"expect": {
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"params": {
"Region": "us-gov-west-1",
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"UseDualStack": false
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"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
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{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
"expect": {

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            }
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            "Region": "us-gov-east-1",
            "UseFIPS": false,
            "UseDualStack": true
        }
    },
    {
        "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack
disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
            }
        },
        "params": {
            "Region": "us-iso-east-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
        "expect": {
            "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
        },
        "params": {
            "Region": "us-iso-east-1",
            "UseFIPS": true,
             "UseDualStack": true
        }
    },
    {
        "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
            }
        },
        "params": {
            "Region": "us-iso-east-1",
            "UseFIPS": true,
            "UseDualStack": false
        }
    },
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{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled
but this partition does not support DualStack"
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"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": true
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{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
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"params": {
"Region": "us-isob-east-1",
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"UseDualStack": false
}
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"expect": {
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"UseDualStack": true
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}
},

"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,

"UseDualStack": false
}
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{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
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"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,

"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"

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                    },
                    "params": {
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                        "UseFIPS": true,
                        "UseDualStack": false,
                        "Endpoint": "https://example.com"
                    }
                },
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                    "documentation": "For custom endpoint with fips disabled and dualstack enabled",
                    "expect": {
                        "error":
"Invalid Configuration: Dualstack and custom endpoint are not supported"
                    },
                    "params": {
                        "Region": "us-east-1",
                        "UseFIPS": false,
                        "UseDualStack": true,
                        "Endpoint": "https://example.com"
                    }
                },
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                    "documentation": "Missing region",
                    "expect": {
                        "error": "Invalid Configuration: Missing Region"
                    }
                }
            ],
            "version": "1.0"
        }
    }
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"com.amazonaws.licensemanager#AcceptGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#AcceptGrantRequest"

},
    "output": {
        "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
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            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
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                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"

    }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant
ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
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"traits": {
"smithy.api#documentation": " Grant status. "
}
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"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
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"com.amazonaws.licensemanager#AccessDeniedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {

"code": "ServiceAccessDenied",
"httpResponseCode": 401
},
"smithy.api#documentation": " Access to resource denied. ",
"smithy.api#error": "client",
"smithy.api#httpError": 401
}
},
"com.amazonaws.licensemanager#ActivationOverrideBehavior": {
"type": "enum",
"members": {
"DISTRIBUTED_GRANTS_ONLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
}
},
"ALL_GRANTS_PERMITTED_BY_ISSUER": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
}
}

```
        }
    },
    "com.amazonaws.licensemanager#AllowedOperation": {

    "type": "enum",
        "members": {
            "CREATE_GRANT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "CreateGrant"
                }
            },
            "CHECKOUT_LICENSE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "CheckoutLicense"
                }
            },
            "CHECKOUT_BORROW_LICENSE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "CheckoutBorrowLicense"
                }
            },
            "CHECK_IN_LICENSE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "CheckInLicense"
                }
            },
            "EXTEND_CONSUMPTION_LICENSE":
{
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "ExtendConsumptionLicense"
                }
            },
            "LIST_PURCHASED_LICENSES": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "ListPurchasedLicenses"
                }
            },
            "CREATE_TOKEN": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "CreateToken"
                }
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            }
        }
    },
    "com.amazonaws.licensemanager#AllowedOperationList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#AllowedOperation"
        },
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max":
7
            }
        }
    },
    "com.amazonaws.licensemanager#Arn": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 2048
            },
            "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-
z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
        }
    },
    "com.amazonaws.licensemanager#ArnList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Arn"
        }
    },
    "com.amazonaws.licensemanager#AuthorizationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError":
{
                "code": "AuthorizationFailure",
                "httpResponseCode": 403
            },
            "smithy.api#documentation": "<p>The Amazon Web Services user account does not have permission to
perform the action. Check the IAM\n        policy associated with this account.</p>",
```

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            "smithy.api#error": "client",
            "smithy.api#httpError": 403
        }
    },
    "com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
        "type": "structure",
        "members": {
            "LastRunTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes automated discovery.</p>"
        }
    },

  "com.amazonaws.licensemanager#Boolean": {
        "type": "boolean",
        "traits": {
            "smithy.api#default": false
        }
    },
    "com.amazonaws.licensemanager#BorrowConfiguration": {
        "type": "structure",
        "members": {
            "AllowEarlyCheckIn": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether early check-ins are allowed.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxTimeToLiveInMinutes": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
                    "smithy.api#required": {}
                }
            }

},
        "traits": {
            "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
        }
    },
```

"com.amazonaws.licensemanager#BoxBoolean": {
"type": "boolean"
},
"com.amazonaws.licensemanager#BoxInteger": {
"type": "integer"
},
"com.amazonaws.licensemanager#BoxLong": {
"type": "long"
},
"com.amazonaws.licensemanager#CheckInLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"

},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks in the specified license. Check in a license when it is no longer in use. "
}

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    },
    "com.amazonaws.licensemanager#CheckInLicenseRequest":
{
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicense":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members":
 {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
 use the borrow consumption configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
                    "smithy.api#required": {}
```

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                }
            },
            "DigitalSignatureMethod": {
                "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
                "traits": {
                    "smithy.api#documentation": "<p>Digital signature method. The possible
 value is JSON Web Signature (JWS) algorithm PS384.\n         For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>",
                    "smithy.api#required": {}
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation":
 "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
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"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed":
{
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " Allowed license entitlements. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"SignedToken": {
"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout
is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutLicense": {
"type": "operation",

"input": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target":
"com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks out the specified license. \n <note>\n If the account that created the license is the same that is performing the check out, you must\n specify the account as the beneficiary. \n </note>"
}
},
"com.amazonaws.licensemanager#CheckoutLicenseRequest": {
"type": "structure",
"members": {

"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product
SKU. ",
"smithy.api#required": {}
}
},
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. ",
"smithy.api#required": {}
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Key fingerprint identifying the license. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. ",

"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "

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            }
        }
    },
    "traits": {

   "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
    "type": "structure",
    "members": {
        "CheckoutType": {
            "target": "com.amazonaws.licensemanager#CheckoutType",
            "traits": {
                "smithy.api#documentation": "<p>Checkout type.</p>"
            }
        },
        "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
            }
        },
        "EntitlementsAllowed": {
            "target": "com.amazonaws.licensemanager#EntitlementDataList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
            }
        },
         "SignedToken": {
            "target": "com.amazonaws.licensemanager#SignedToken",
            "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
            }
        },
        "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        },
        "IssuedAt": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
            }
        },
        "Expiration": {
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"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and
time at which the license checkout expires. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the checkout license. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutType": {
"type": "enum",
"members": {
"PROVISIONAL": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PROVISIONAL"
}
},
"PERPETUAL": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PERPETUAL"
}
}
}
},
"com.amazonaws.licensemanager#ClientRequestToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 36
}
}
},
"com.amazonaws.licensemanager#ClientToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,

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                "max": 2048
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
    "com.amazonaws.licensemanager#ConflictException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ConflictException",
                "httpResponseCode":
 409
            },
            "smithy.api#documentation": "<p>There was a conflict processing the request. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 409
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
                }
            },
            "ConsumedLicenses": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
                }
            }
        },

 "traits": {
            "smithy.api#documentation": "<p>Details about license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
        "type": "list",
        "member": {
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"target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
}
},
"com.amazonaws.licensemanager#ConsumptionConfiguration": {
"type": "structure",
"members": {
"RenewType": {
"target": "com.amazonaws.licensemanager#RenewType",
"traits": {
"smithy.api#documentation": " Renewal frequency. "
}
},
"ProvisionalConfiguration": {
"target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"BorrowConfiguration": {
"target": "com.amazonaws.licensemanager#BorrowConfiguration",
"traits": {
"smithy.api#documentation": " Details about a borrow configuration. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a consumption configuration. "
}
},
"com.amazonaws.licensemanager#CreateGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target":
"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},

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            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of license\n        entitlements with a specific Amazon Web Services account, an organization, or an\n organizational unit (OU). For more
 information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}

    }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Principals": {
```

"target": "com.amazonaws.licensemanager#PrincipalArnList",
"traits": {
"smithy.api#documentation": " The grant principals. You can specify one of the following as an Amazon Resource Name\n (ARN): \n \n \n An Amazon Web Services account, which includes only the account specified. \n \n \n \n \n An organizational unit (OU), which includes all accounts in the OU. \n \n \n \n \n An organization, which will include all accounts across your organization. \n \n ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},

"com.amazonaws.licensemanager#CreateGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateGrantVersion":
{
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a new version of the specified grant. For more information, see\n Granted licenses in License Manager in the License Manager User Guide. "
}
},

"com.amazonaws.licensemanager#CreateGrantVersionRequest": {
"type": "structure",
"members": {
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",

"smithy.api#required": {}
}
},
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the grant. "
}

```
            },
            "Options": {
                "target": "com.amazonaws.licensemanager#Options",
                "traits": {
                    "smithy.api#documentation": "<p>The options specified for the grant.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>New version of the grant.</p>"
                }
            }
        },
        "traits":
{
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
        },
        "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
```

"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Creates a license configuration. \n A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a \n license must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension used to track the license inventory. ",
"smithy.api#required": {}
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used.

Exceeding a hard limit\n blocks the launch of new instances. "
}
},
"LicenseRules": {
"target":
"com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. The syntax is #name=value (for example,
#allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows. \n
\n \n \n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n
<code>licenseAffinityToHost</code> |\n <code>maximumCores</code> |
<code>minimumCores</code>\n \n \n \n \n
<code>Instances</code> dimension: <code>allowedTenancy</code> | \n <code>maximumCores</code> |
<code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n
<code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n
\n
\n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n
<code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> |
<code>minimumSockets</code>\n \n \n \n \n
<code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n
<code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> |
<code>minimumVcpus</code>\n \n \n \n The unit for
<code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for
<code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n
<code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n
<code>True</code> and <code>False</code>. "
}
},

"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the license configuration. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is
uninstalled. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
}

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        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse":
{
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
```

"traits": {
"smithy.api#documentation": " Creates a new license conversion task. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {

"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource you are converting the license type for. ",
"smithy.api#required": {}
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting from. \n\n For the structure of the source license, see Convert a license type using the CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
},
"DestinationLicenseContext":
{
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting to. For the structure of the destination license, see Convert a license type using the CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

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    "traits": {
            "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
       },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      },
      {
        "target": "com.amazonaws.licensemanager#ValidationException"
      }
    ],
    "traits": {
      "smithy.api#documentation": "<p>Creates a report generator.</p>"
    }
  },
  "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
```

"type": "structure",
"members": {
"ReportGeneratorName":
{
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types an be generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}

}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " Defines the type of license configuration the report generator tracks. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique,
case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the new report
generator. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseRequest": {
"type": "structure",
"members": {
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product
name. ",
"smithy.api#required": {}
}

```
            },
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "Issuer": {
                "target": "com.amazonaws.licensemanager#Issuer",
                "traits": {
                    "smithy.api#documentation": "<p>License issuer.</p>",
                    "smithy.api#required": {}
                }
            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Home Region for the license.</p>",
                    "smithy.api#required": {}

    }
            },
            "Validity": {
                "target": "com.amazonaws.licensemanager#DatetimeRange",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",
                    "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>",
                    "smithy.api#required": {}
                }
             },
            "ConsumptionConfiguration": {
                "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
                "traits": {
```

"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation":
" Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {

"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a new version of the specified license. "
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target":
"com.amazonaws.licensemanager#Arn",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits":
{
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"Entitlements": {

"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},

"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",

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            "traits": {
                "smithy.api#documentation": "<p>License ARN.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>New version of the license.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output":
{}
    }
},
"com.amazonaws.licensemanager#CreateToken": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateTokenResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
```

{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a long-lived token. \n A refresh token is a JWT token used to get an access token. With an access token,\n you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n call License Manager to manage the specified license. "
}
},
"com.amazonaws.licensemanager#CreateTokenRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits":
{
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n JWT token. ",
"smithy.api#required": {}
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n License Manager does not check whether the roles are in use. "
}
},
"ExpirationInDays": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Token expiration, in days, counted from token creation. The default is 365 days. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller to be included in the JWT token. The data is mapped\n to the amr claim of the JWT token. "
}

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        },
        "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientToken",
            "traits": {
                "smithy.api#documentation": "<p>Idempotency token, valid for 10 minutes.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CreateTokenResponse": {
    "type": "structure",
    "members": {
        "TokenId": {
            "target": "com.amazonaws.licensemanager#String",

         "traits": {
                "smithy.api#documentation": "<p>Token ID.</p>"
            }
        },
        "TokenType": {
            "target": "com.amazonaws.licensemanager#TokenType",
            "traits": {
                "smithy.api#documentation": "<p>Token type.</p>"
            }
        },
        "Token": {
            "target": "com.amazonaws.licensemanager#TokenString",
            "traits": {
                "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#DateTime": {
    "type": "timestamp"
},
"com.amazonaws.licensemanager#DatetimeRange": {
    "type": "structure",
    "members": {
        "Begin": {
```

```
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Start of the time range.</p>",
                "smithy.api#required": {}
            }
        },
        "End": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>End of the time range.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
    }
},
"com.amazonaws.licensemanager#DeleteGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
```

"traits": {
"smithy.api#documentation": " Deletes
the specified grant. "
}
},
"com.amazonaws.licensemanager#DeleteGrantRequest": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " The Status reason for the delete request. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the
grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}

```
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
```

"traits": {
"smithy.api#documentation": " Deletes the specified license. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license configuration. \n You cannot delete a license configuration that is in use. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
"type": "structure",
"members":
{
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the license configuration. ",
"smithy.api#required": {}
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified report generator. \n This action deletes the report generator, which stops it from generating future reports.\n The action cannot be reversed. It has no effect on the previous reports from this generator. "

```
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to be
deleted.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {

 "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>",
                    "smithy.api#required":
 {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
```

```
},
"com.amazonaws.licensemanager#DeleteLicenseResponse": {
    "type": "structure",
    "members": {
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        },
        "DeletionDate": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date when the license is deleted.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#DeleteToken": {
    "type": "operation",
     "input": {
        "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
```

{
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": " Deletes the specified token. Must be called in the license home Region. "
    }
},
"com.amazonaws.licensemanager#DeleteTokenRequest": {
    "type": "structure",
    "members": {
        "TokenId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": " Token ID. ",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#DeleteTokenResponse": {
    "type": "structure",
    "members": {},
    "traits": {
        "smithy.api#output": {}

  }
},
"com.amazonaws.licensemanager#DigitalSignatureMethod": {
    "type": "enum",
    "members": {
        "JWT_PS384": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "JWT_PS384"
            }
        }
    }
},
"com.amazonaws.licensemanager#Entitlement": {
    "type": "structure",
    "members": {
        "Name": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement resource. Use only
if the unit is None. "
}
},
"MaxCount": {
"target": "com.amazonaws.licensemanager#Long",
"traits": {
"smithy.api#documentation": " Maximum entitlement count. Use if the unit is not None. "
}
},
"Overage": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether overages are allowed. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementUnit",
"traits": {
"smithy.api#documentation": " Entitlement unit. ",
"smithy.api#required": {}
}
},
"AllowCheckIn": {
"target":
"com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether check-ins are allowed. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a resource entitled for use with a license. "
}
},
"com.amazonaws.licensemanager#EntitlementData": {
"type": "structure",
"members": {
"Name": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement
data value. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {
"smithy.api#documentation": " Entitlement data unit. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Data associated with an entitlement resource. "
}
},
"com.amazonaws.licensemanager#EntitlementDataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#EntitlementData"
}
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
"type": "enum",
"members": {
"COUNT": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Count"
}
},
"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"SECONDS": {

"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Seconds"
}
},
"MICROSECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Microseconds"
}
},
"MILLISECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Milliseconds"
}
},
"BYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes"
}
},
"KILOBYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes"
}
},
"MEGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes"
}
},
"GIGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes"
}
},
"TERABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS":

{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"

}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"
}
},
"KILOBYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes/Second"
}

```
        },
        "MEGABYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Megabytes/Second"
          }
        },
        "GIGABYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
           "traits": {
            "smithy.api#enumValue": "Gigabytes/Second"
          }
        },
        "TERABYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Terabytes/Second"
          }
        },
        "BITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Bits/Second"
          }
        },
        "KILOBITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Kilobits/Second"
          }
        },
        "MEGABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue":
"Megabits/Second"
          }
        },
        "GIGABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Gigabits/Second"
          }
        },
        "TERABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Terabits/Second"
```

```
            }
        },
        "COUNT_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Count/Second"
            }
        }
    }
},
"com.amazonaws.licensemanager#EntitlementList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Entitlement"
    }
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#EntitlementUnit": {
    "type": "enum",
    "members": {
        "COUNT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Count"
            }
        },
        "NONE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "None"
            }
        },
        "SECONDS":
{
            "target": "smithy.api#Unit",
```

```
    "traits": {
        "smithy.api#enumValue": "Seconds"
    }
},
"MICROSECONDS": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Microseconds"
    }
},
"MILLISECONDS": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Milliseconds"
    }
},
"BYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Bytes"
    }
},
"KILOBYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Kilobytes"
     }
},
"MEGABYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Megabytes"
    }
},
"GIGABYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Gigabytes"
    }
},
"TERABYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Terabytes"
    }
},
"BITS": {
    "target": "smithy.api#Unit",
```

"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"
}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target":
"smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"
}
},
"KILOBYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes/Second"
}
},

"MEGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes/Second"
}
},
"GIGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes/Second"
}
},
"TERABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Terabytes/Second"
}
},
"BITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits/Second"
}
},
"KILOBITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits/Second"
}
},
"MEGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits/Second"
}
},
"GIGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits/Second"
}
},

"TERABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits/Second"

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            }
        },
        "COUNT_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Count/Second"
            }
        }
    }
},
"com.amazonaws.licensemanager#EntitlementUsage": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                "smithy.api#required": {}
            }
        },
        "ConsumedValue": {
            "target": "com.amazonaws.licensemanager#String",

       "traits": {
                "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxCount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
    }
},
"com.amazonaws.licensemanager#EntitlementUsageList":
```

```
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
```

"smithy.api#required": {}

}
},
"DryRun": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#default": false,
"smithy.api#documentation": " Checks whether you have the required permissions for the action, without actually making the request. Provides an error response if you do not have the required permissions. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},

"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license consumption expires. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#FailedDependencyException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
},
"ErrorCode": {
"target": "com.amazonaws.licensemanager#String"
}
},

"traits": {
"aws.protocols#awsQueryError": {
"code": "FailedDependency",
"httpResponseCode": 424
},
"smithy.api#documentation":
" A dependency required to run the API is missing. ",
"smithy.api#error": "client",
"smithy.api#httpError": 424
}
},
"com.amazonaws.licensemanager#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#FilterName",
"traits": {
"smithy.api#documentation": " Name of the filter. Filter names are case-sensitive. "
}
},
"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " The value of the filter, which is case-sensitive. You can only
specify one value for the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter
name and value pair that is used to return more specific results from a\n describe operation. Filters can be used
to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FilterLimitExceeded",
"httpResponseCode": 400
},
"smithy.api#documentation": " The request uses too many filters or too many filter values. ",
"smithy.api#error": "client",

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        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#FilterList": {
    "type": "list",
     "member": {
        "target": "com.amazonaws.licensemanager#Filter"
    }
},
"com.amazonaws.licensemanager#FilterName": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#FilterValue",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#Filters": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Filter",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#GetAccessToken": {
    "type": "operation",
    "input": {
         "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
```

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            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access
 tokens\n          are valid for one hour.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenRequest": {
        "type": "structure",
        "members": {
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT
token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenResponse":
 {
        "type": "structure",
        "members": {
            "AccessToken": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Temporary access token.</p>"
                }
            }
```

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    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"

   },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
```

"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetGrantResponse": {
"type": "structure",
"members": {
"Grant": {
"target": "com.amazonaws.licensemanager#Grant",
"traits": {
"smithy.api#documentation": " Grant details. "
}
}
},
"traits": {

"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"

},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license configuration. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
}
},
"traits":
{
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Unique ID for the license configuration. "
}
},
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension for which the licenses are counted. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",

"traits": {
"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",

"traits": {
"smithy.api#documentation": " Number of available licenses. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Sets the number of available licenses as a hard limit. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses assigned to resources. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License configuration status. "
}

},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},

"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When
true, disassociates a resource when software is uninstalled. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},

{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified license type conversion task. "
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information

about the license type converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted to. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " Status of the license type conversion task. "
}
},

"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was started . "
}
},
"LicenseConversionTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Amount of time to complete the license type conversion. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was completed. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGenerator":

```
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

         },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
                    "smithy.api#required":
```

{}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"ReportGenerator": {
"target": "com.amazonaws.licensemanager#ReportGenerator",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic reports about your license configurations. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseResponse": {
"type": "structure",
"members": {

"License": {
"target": "com.amazonaws.licensemanager#License",
"traits": {
"smithy.api#documentation": " License details. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},

"com.amazonaws.licensemanager#GetLicenseUsage": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the usage of the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseUsageRequest": {
"type": "structure",
"members": {

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            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageResponse": {
        "type": "structure",
        "members": {
            "LicenseUsage": {
                "target":
"com.amazonaws.licensemanager#LicenseUsage",
                "traits": {
                    "smithy.api#documentation": "<p>License usage details.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
```

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        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
discovery data,\n        and so on.</p>"

  }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>SNS topic configured to receive notifications from License
Manager.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether Organizations is integrated with License
Manager for\n        cross-account discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether cross-account discovery is enabled.</p>"
                }

        },
            "LicenseManagerResourceShareArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
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Manager management account \n provides member accounts with access to this share. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#Grant": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"ParentArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Parent ARN. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. ",
"smithy.api#required": {}
}
},
"GranteePrincipalArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {

"smithy.api#documentation": " The grantee principal ARN. ",
"smithy.api#required": {}
}
},

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            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Home Region of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantStatus": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>",
                    "smithy.api#required": {}
                }
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status reason.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Granted operations.</p>",
                    "smithy.api#required": {}
                }
            },
            "Options": {
                "target": "com.amazonaws.licensemanager#Options",
                "traits": {
                    "smithy.api#documentation": "<p>The options specified for the grant.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
"<p>Describes a grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#GrantList": {
        "type": "list",
```

```
    "member": {
        "target": "com.amazonaws.licensemanager#Grant"
    }
},
"com.amazonaws.licensemanager#GrantStatus": {
    "type": "enum",
    "members": {
        "PENDING_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_WORKFLOW"
            }
        },
        "PENDING_ACCEPT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_ACCEPT"
            }
        },
        "REJECTED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "REJECTED"

        }
        },
        "ACTIVE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "ACTIVE"
            }
        },
        "FAILED_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        },
        "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
```

```
            }
          },
          "DISABLED": {
            "target": "smithy.api#Unit",
            "traits":
{
              "smithy.api#enumValue": "DISABLED"
            }
          },
          "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#GrantedLicense": {
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
          },
          "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License name.</p>"
            }

  },
          "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Product name.</p>"
            }
          },
          "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Product SKU.</p>"
            }
          },
          "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
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"smithy.api#documentation": " Granted license issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the granted license. "

}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " Granted license status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the granted license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Granted license beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Granted license metadata. "
}
},
"CreateTime": {

"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Creation time of the granted license. "

}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Version of the granted license. "
}
},
"ReceivedMetadata": {
"target": "com.amazonaws.licensemanager#ReceivedMetadata",
"traits": {
"smithy.api#documentation": " Granted license received metadata. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a license that is granted to a grantee. "
}
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#GrantedLicense"
}
},
"com.amazonaws.licensemanager#ISO8601DateTime":
{
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
}
},
"com.amazonaws.licensemanager#Integer": {
"type": "integer"
},
"com.amazonaws.licensemanager#InvalidParameterValueException": {
"type": "structure",
"members": {
"Message": {

"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidParameterValueProvided",
"httpResponseCode": 400
},
"smithy.api#documentation":
" One or more parameter values are not valid. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#InvalidResourceStateException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidResourceState",
"httpResponseCode": 400
},
"smithy.api#documentation": " License Manager cannot allocate a license to a resource because of its state. \n For example, you cannot allocate a license to an instance in the process of shutting\n down. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},

"com.amazonaws.licensemanager#InventoryFilter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the filter. ",
"smithy.api#required": {}
}
},
"Condition": {
"target": "com.amazonaws.licensemanager#InventoryFilterCondition",
"traits": {
"smithy.api#documentation": " Condition of the filter. ",

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                "smithy.api#required": {}
            }
        },
        "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Value of the filter.</p>"
            }
        }

},
    "traits": {
        "smithy.api#documentation": "<p>An inventory filter.</p>"
    }
  },
  "com.amazonaws.licensemanager#InventoryFilterCondition": {
    "type": "enum",
    "members": {
        "EQUALS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EQUALS"
            }
        },
        "NOT_EQUALS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "NOT_EQUALS"
            }
        },
        "BEGINS_WITH": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "BEGINS_WITH"
            }
        },
        "CONTAINS": {
            "target": "smithy.api#Unit",
            "traits": {
                 "smithy.api#enumValue": "CONTAINS"
            }
        }
    }
  },
  "com.amazonaws.licensemanager#InventoryFilterList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#InventoryFilter"
```

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        }
    },
    "com.amazonaws.licensemanager#Issuer": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>",
                    "smithy.api#required": {}
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage
 of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about the issuer of a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#IssuerDetails": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>"
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
                }
            },
            "KeyFingerprint": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
                }
            }
```

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    },
    "traits": {
        "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
    }
},
"com.amazonaws.licensemanager#License": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

       "smithy.api#documentation": "<p>License name.</p>"
            }
        },
        "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product name.</p>"
            }
        },
        "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product SKU.</p>"
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>License issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

        "smithy.api#documentation": "<p>Home Region of the license.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
```

"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"Entitlements": {

"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " License metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License creation time. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}

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        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
    "type": "structure",
    "members": {
        "LicenseConfigurationId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
            }
        },
        "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
        },
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the license configuration.</p>"
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
                "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
             }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules.</p>"
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
```

"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Number of available licenses as a hard limit. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the license configuration. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the license configuration's owner. "

}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for licenses consumed by various resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {

"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {

"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource consuming licenses. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " Time when the license configuration was associated with the resource. "
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an association with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
}
},
"com.amazonaws.licensemanager#LicenseConfigurationStatus": {
"type": "enum",
"members":
{
"AVAILABLE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "AVAILABLE"
}
},
"DISABLED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DISABLED"
}
}
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsage": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},

"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits":
{
"smithy.api#documentation": " Type of resource. "
}
},
"ResourceStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was initially associated with the resource. "
}
},

"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
}
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
"type": "list",
"member": {

"target": "com.amazonaws.licensemanager#LicenseConfiguration"
}
},
"com.amazonaws.licensemanager#LicenseConversionContext": {

"type": "structure",
"members": {
"UsageOperation": {
"target": "com.amazonaws.licensemanager#UsageOperation",
"traits": {
"smithy.api#documentation": " The Usage operation value that corresponds to the license type you are converting your resource from. For more information about which platforms correspond to which usage operation values see Sample data: usage operation by platform\n \n "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTask": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {

"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource associated with the license type\n conversion task. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted from. "
}
},
"DestinationLicenseContext": {
"target":

"com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted to. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " The status of the conversion task. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was started at. "
}
},
"LicenseConversionTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the usage operation value of the resource was changed. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was completed. "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTaskId": {
"type": "string",
"traits": {

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        "smithy.api#length": {
            "min": 0,
            "max": 50
        },
        "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
    }
  },
  "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
    "type": "enum",
    "members": {
      "IN_PROGRESS": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "IN_PROGRESS"
        }
      },
      "SUCCEEDED": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "SUCCEEDED"
        }
      },
      "FAILED": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "FAILED"
        }
      }
    }
  },
  "com.amazonaws.licensemanager#LicenseConversionTasks":
{
    "type": "list",
    "member": {
      "target": "com.amazonaws.licensemanager#LicenseConversionTask"
    }
  },
  "com.amazonaws.licensemanager#LicenseCountingType": {
    "type": "enum",
    "members": {
      "VCPU": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "vCPU"
        }
      },
      "INSTANCE": {
        "target": "smithy.api#Unit",
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            "traits": {
                "smithy.api#enumValue": "Instance"
            }
        },
        "CORE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Core"
            }
        },
        "SOCKET": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Socket"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {
    "type": "enum",
    "members": {
        "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {

    "type": "structure",
    "members": {
        "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Resource type. "
}
},
"ErrorMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Error message. "
}
},
"FailureTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " Failure time. "
}
},
"OperationName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the operation. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource. "
}
},
"OperationRequestedBy": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The requester is \"License Manager Automated Discovery\". "
}
},
"MetadataList": {

"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Reserved. "
}
}

```
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes the failure of a license operation.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseOperationFailureList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailure"
        }
    },
    "com.amazonaws.licensemanager#LicenseSpecification": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

                "smithy.api#required": {}
                }
            },
            "AmiAssociationScope": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details for associating a license configuration with a resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseSpecifications": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseSpecification"
        }
    },
    "com.amazonaws.licensemanager#LicenseStatus": {
        "type": "enum",
        "members": {
            "AVAILABLE": {
                "target": "smithy.api#Unit",
```

```
        "traits": {
            "smithy.api#enumValue": "AVAILABLE"
        }
        },
        "PENDING_AVAILABLE": {
        "target": "smithy.api#Unit",
        "traits": {
            "smithy.api#enumValue": "PENDING_AVAILABLE"
        }
        },
        "DEACTIVATED": {
        "target": "smithy.api#Unit",
        "traits": {
            "smithy.api#enumValue": "DEACTIVATED"
        }
        },
        "SUSPENDED": {
        "target": "smithy.api#Unit",
        "traits": {
            "smithy.api#enumValue": "SUSPENDED"
        }
        },
        "EXPIRED": {
        "target": "smithy.api#Unit",
        "traits": {
            "smithy.api#enumValue": "EXPIRED"
        }
        },

      "PENDING_DELETE": {
        "target": "smithy.api#Unit",
        "traits": {
            "smithy.api#enumValue": "PENDING_DELETE"
        }
        },
        "DELETED": {
        "target": "smithy.api#Unit",
        "traits": {
            "smithy.api#enumValue": "DELETED"
        }
        }
    }
},
"com.amazonaws.licensemanager#LicenseUsage": {
    "type": "structure",
    "members": {
        "EntitlementUsages": {
            "target": "com.amazonaws.licensemanager#EntitlementUsageList",
```

"traits": {
"smithy.api#documentation": " License entitlement usages. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the entitlement usage associated with a license. "

}
},
"com.amazonaws.licensemanager#LicenseUsageException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "LicenseUsageFailure",
"httpResponseCode": 412
},
"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{

"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the resource associations for the
specified license configuration. \n Resource associations need not consume licenses from a license
configuration. \n For example, an AMI or a stopped instance might not consume a license (depending on \n
the license rules). "
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results
to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationAssociations": {

"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license configuration. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants distributed for the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
        "type": "structure",
        "members": {
            "GrantArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {

            "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>LicenseArn</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                <code>GrantStatus</code>\n                </p>\n            </li>\n
    <li>\n                <p>\n                <code>GranteePrincipalARN</code>\n                </p>\n            </li>\n
<li>\n                <p>\n                <code>ProductSKU</code>\n                </p>\n            </li>\n            <li>\n
<p>\n                <code>LicenseIssuerName</code>\n
        </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
        "type": "structure",
        "members": {
            "Grants": {
```

"target": "com.amazonaws.licensemanager#GrantList",

"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configuration operations that failed. "
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {

"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name of the license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse": {
"type": "structure",
"members": {
"LicenseOperationFailureList": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
"traits": {
"smithy.api#documentation": " License configuration operations that failed. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurations": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
},

"output": {
"target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configurations
for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the license
configurations. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}

```
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next
 set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n         <ul>\n            <li>\n              <p>\n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n              Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n              Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n                <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n              Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n
    </li>\n            <li>\n              <p>\n                <code>usagelimitExceeded</code> - A Boolean value that
indicates whether the available licenses have been exceeded. \n              Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n         </ul>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurations": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurations",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",

          "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
```

```
    }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasks": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
    "type": "structure",
    "members": {
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {

"smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "Filters": {
```

"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " \n Filters to scope the results. Valid filters are <code>ResourceArns</code> and <code>Status</code>.\n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
"type": "structure",
"members": {
"LicenseConversionTasks": {
"target": "com.amazonaws.licensemanager#LicenseConversionTasks",
"traits": {
"smithy.api#documentation": " Information about the license configuration tasks for your account. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the report generators for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest":
{
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:
</p>\n        <ul>\n            <li>\n                <p>\n                    <code>LicenseConfigurationArn</code>\n
</p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits":
{
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
```

```
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
            "ReportGenerators": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorList",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }

        }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Describes the license configurations for the specified resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a resource that has an
associated license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {

        "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
        "type": "structure",
        "members": {
            "LicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
                }
            },
            "NextToken": {
```

```
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
```

```
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
        "type": "structure",
        "members": {
            "Licenses": {
                "target": "com.amazonaws.licensemanager#LicenseList",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            },

"NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenses": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicensesRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicensesResponse"
        },
        "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the licenses for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicensesRequest": {
        "type": "structure",
        "members": {
            "LicenseArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
                }
            },

    "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n    <ul>\n        <li>\n            <p>\n                <code>Beneficiary</code>\n            </p>\n
    </li>\n        <li>\n            <p>\n                <code>ProductSKU</code>\n            </p>\n        </li>\n
  <li>\n            <p>\n                <code>Fingerprint</code>\n            </p>\n        </li>\n        <li>\n
<p>\n                <code>Status</code>\n            </p>\n        </li>\n    </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token
```

for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#LicenseList",
"traits": {
"smithy.api#documentation": " License details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists grants that are received. Received grants are grants created while specifying the\n recipient as this Amazon Web Services account, your organization, or an organizational unit\n (OU) to which this member account belongs. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},

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            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants received for all accounts in the organization.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the received license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n
    <ul>\n        <li>\n            <p>\n                <code>ParentArn</code>\n            </p>\n        </li>\n
<li>\n            <p>\n                <code>GranteePrincipalArn</code>\n            </p>\n        </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
```

"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Lists the grants the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranterAccountId</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},

```
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
    "type": "structure",
    "members": {
        "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
             "traits": {
                "smithy.api#documentation": "<p>Received grant details.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
         },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists received licenses.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {

    "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
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"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses received for all accounts in the organization. "
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#GrantedLicenseList",
"traits": {
"smithy.api#documentation": " Lists the licenses the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>IssuerName</code>\n \n \n \n \n <code>Beneficiary</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
"type": "structure",

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    "members": {
      "Licenses": {
        "target": "com.amazonaws.licensemanager#GrantedLicenseList",
        "traits": {
          "smithy.api#documentation": "<p>Received license details.</p>"
        }
      },

      "NextToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#ListResourceInventory": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#FailedDependencyException"
      },
      {
        "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
```

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            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                 "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#InventoryFilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource.\n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                    <code>application_name</code> - The name of the application. \n                Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n    </li>\n            <li>\n                <p>\n                    <code>license_included</code> - The type of license included. \n            Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n                Possible values are <code>sql-server-enterprise</code> | \n                <code>sql-server-standard</code> | \n                <code>sql-server-web</code> |  \n                <code>windows-server-datacenter</code>.</p>\n            </li>\n            <li>\n    <p>\n                    <code>platform</code> - The platform of the resource.\n                Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n            </li>\n            <li>\n                <p>\n        <code>resource_id</code> - The ID of the resource. \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n      <code>tag:<key></code> - The key/value combination of a tag assigned \n                to the resource. Logical operators are <code>EQUALS</code> (single account) or\n                <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account).</p>\n            </li>\n        </ul>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
```

```
    "com.amazonaws.licensemanager#ListResourceInventoryResponse": {
      "type": "structure",
      "members": {
        "ResourceInventoryList": {
          "target": "com.amazonaws.licensemanager#ResourceInventoryList",
          "traits": {
            "smithy.api#documentation": "<p>Information
about the resources.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#ListTagsForResource": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Lists the tags for the specified license configuration.</p>"
```

```
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the tags.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors":
[
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
            "TokenIds": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {

                  "smithy.api#documentation": "<p>Token IDs.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
    <ul>\n        <li>\n        <p>\n        <code>LicenseArns</code>\n        </p>\n        </li>\n
</ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation":
 "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
```

```
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokensResponse": {
        "type": "structure",
        "members": {
            "Tokens": {
                "target": "com.amazonaws.licensemanager#TokenList",
                "traits": {
                    "smithy.api#documentation": "<p>Received token details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying license\n        consumption details by resource at a selected point in time. Use this action to audit the\n        current license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>resourceArn</code> - The ARN of the license configuration resource.\n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>resourceAccount</code> - The ID of the account that owns the resource. \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
                }
            }
```

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        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
        "type": "structure",
        "members": {

"LicenseConfigurationUsageList": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Location": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#Long": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#ManagedResourceSummary": {
        "type": "structure",
        "members": {
            "ResourceType":
{
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
                }
            },
            "AssociationCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
                }
            }
```

```
    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {

"type": "integer",
    "traits": {
        "smithy.api#range": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The key name.</p>"
            }
        },

"Value": {
            "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " The value. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes key/value pairs. "
}
},
"com.amazonaws.licensemanager#MetadataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Metadata"
}
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#Options": {
"type": "structure",
"members": {
"ActivationOverrideBehavior": {
"target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
"traits": {
"smithy.api#documentation": " An activation option for your grant that determines the behavior of activating a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter. \n \n \n As a license administrator, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant. \n \n \n As a grantor, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your organization. \n \n \n As a grantee, if the grantor creating the distributed grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n are activating the grant. \n \n \n <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n Use this value to activate a grant without replacing any member accounts\n active grants for the same product. \n </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n Use this value to activate a

grant and disable other active grants in any\n member accounts
for the same product. This action will also replace their\n previously activated grants with this activated grant. \n </dd>\n </dl>"
}
}
},
"traits": {
"smithy.api#documentation": " The options you can specify when you create a new version of a grant, such as activation\n override behavior. For more information, see Granted licenses in License Manager in the License Manager User Guide. "
}
},
"com.amazonaws.licensemanager#OrganizationConfiguration": {
"type": "structure",
"members": {
"EnableIntegration": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#default": false,
"smithy.api#documentation": " Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n <code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n \n ",
"smithy.api#required": {}
}
}
},

```
    "traits": {
        "smithy.api#documentation": "<p>Describes product information for a license configuration.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
    "type": "structure",
    "members": {
        "ProductInformationFilterName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Filter name.</p>",
                "smithy.api#required": {}
            }
        },
        "ProductInformationFilterValue": {
            "target": "com.amazonaws.licensemanager#StringList",

      "traits": {
                "smithy.api#documentation": "<p>Filter value.</p>"
            }
        },
        "ProductInformationFilterComparator": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Logical operator.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes product information filters.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformationFilter"
    }
},
"com.amazonaws.licensemanager#ProductInformationList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformation"
     }
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
    "type": "structure",
    "members": {
```

"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the provisional configuration, in minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"com.amazonaws.licensemanager#RateLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "RateLimitExceeded",
"httpResponseCode": 429
},
"smithy.api#documentation": " Too many requests have been submitted. Try again after a brief wait. ",
"smithy.api#error": "client",
"smithy.api#httpError": 429
}
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
"type": "structure",
"members": {
"ReceivedStatus": {
"target": "com.amazonaws.licensemanager#ReceivedStatus",
"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Received status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",

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            "traits": {
                "smithy.api#documentation": "<p>Allowed operations.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Metadata associated with received licenses and grants.</p>"
    }
},
"com.amazonaws.licensemanager#ReceivedStatus": {
    "type": "enum",
    "members": {
        "PENDING_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_WORKFLOW"
            }
        },
        "PENDING_ACCEPT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue":
"PENDING_ACCEPT"
            }
        },
        "REJECTED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "REJECTED"
            }
        },
        "ACTIVE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "ACTIVE"
            }
        },
        "FAILED_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
```

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        },
        "DISABLED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DISABLED"
            }
        },
        "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#RedirectException": {
    "type": "structure",
    "members": {
        "Location": {
            "target": "com.amazonaws.licensemanager#Location",
            "traits": {
                "smithy.api#httpHeader": "Location"
            }
        },
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 308
    }
},
"com.amazonaws.licensemanager#RejectGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#RejectGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#RejectGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}

  }
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
```

"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#RenewType":
{
"type": "enum",
"members": {
"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"WEEKLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Weekly"
}
},
"MONTHLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Monthly"
}
}
}
},
"com.amazonaws.licensemanager#ReportContext": {
"type": "structure",
"members": {
"licenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details of the license configuration that this generator reports on. "
}
},
"com.amazonaws.licensemanager#ReportFrequency": {
"type": "structure",
"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "
}
},
"period": {
"target": "com.amazonaws.licensemanager#ReportFrequencyType",

"traits": {
"smithy.api#documentation": " Time period between each report. The period can be daily, weekly, or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"com.amazonaws.licensemanager#ReportFrequencyType": {
"type": "enum",
"members": {
"DAY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DAY"
}
},
"WEEK": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "WEEK"
}
},

"MONTH": {
"target": "smithy.api#Unit",
"traits":
{
"smithy.api#enumValue": "MONTH"
}
}
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the report generator. "
}
},
"ReportType": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports that are generated. "
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " License
configuration type for this generator. "
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. "
}
},
"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}

},
"LastRunFailureReason":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Failure message for the last report generation attempt. "
}
},
"LastReportGenerationTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the last report was generated at. "
}
},
"ReportCreatorAccount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Web Services account ID used to create the report generator. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the report was created. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags associated with the report generator. "
}

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}
    },
    "traits": {
        "smithy.api#documentation": "<p>Describe the details of a report generator.</p>"
    }
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportGenerator"
    }
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#ReportType": {
    "type": "enum",
    "members": {
        "LICENSE_CONFIGURATION_SUMMARY_REPORT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "LicenseConfigurationSummaryReport"
            }

},
        "LICENSE_CONFIGURATION_USAGE_REPORT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "LicenseConfigurationUsageReport"
            }
        }
    }
},
"com.amazonaws.licensemanager#ReportTypeList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportType"
    }
},
"com.amazonaws.licensemanager#ResourceInventory": {
    "type": "structure",
    "members": {
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            "ResourceId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits":
{
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "Platform": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform of the resource.</p>"
                }
            },
            "PlatformVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
                }
            },
            "ResourceOwningAccountId":
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ResourceInventoryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ResourceInventory"
        }
```

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},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "ResourceLimitExceeded",

         "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>Your resource limits have been exceeded.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "InvalidResource.NotFound",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The resource cannot be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceType": {
    "type": "enum",
     "members": {
        "EC2_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_INSTANCE"
            }
        },
        "EC2_HOST": {
            "target": "smithy.api#Unit",
            "traits": {
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"smithy.api#enumValue": "EC2_HOST"
}
},
"EC2_AMI": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "EC2_AMI"
}
},
"RDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "RDS"
}
},
"SYSTEMS_MANAGER_MANAGED_INSTANCE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
}
}
}
},
"com.amazonaws.licensemanager#S3Location": {
"type": "structure",
"members": {
"bucket": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the S3 bucket reports are published to. "
}
},
"keyPrefix": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Prefix of the S3 bucket reports are published to. "
}
}
},
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
"type": "structure",
"members": {
"Message": {

"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InternalError",
"httpResponseCode": 500
},
"smithy.api#documentation": " The server experienced an internal error. Try again. ",
"smithy.api#error": "server",
"smithy.api#httpError": 500
}
},
"com.amazonaws.licensemanager#SignedToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 4096
}
}
},
"com.amazonaws.licensemanager#StatusReasonMessage": {
"type": "string",
"traits":
{
"smithy.api#length": {
"min": 0,
"max": 400
},
"smithy.api#pattern": "^[\\s\\S]+$"
}
},
"com.amazonaws.licensemanager#String": {
"type": "string"
},
"com.amazonaws.licensemanager#StringList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#String"
}
},
"com.amazonaws.licensemanager#Tag": {
"type": "structure",
"members": {
"Key": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Tag key. "

```
            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation":
"<p>Tag value.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#String"
        }
      },
      "com.amazonaws.licensemanager#TagList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#Tag"
        }
      },
      "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
          {
            "target":
"com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
```

```
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits":
 {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>One or more tags.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
```

"TokenType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Type of token generated. The supported value is <code>REFRESH_TOKEN</code>. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"ExpirationTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Token expiration time, in ISO8601-UTC format. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller. "
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the roles included in the token. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. "
}
}
},
"traits": {

"smithy.api#documentation": " Describes a token. "
}
},
"com.amazonaws.licensemanager#TokenList": {
"type": "list",

"member": {
"target": "com.amazonaws.licensemanager#TokenData"
}
},
"com.amazonaws.licensemanager#TokenString": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 4096
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#TokenType": {
"type": "enum",
"members": {
"REFRESH_TOKEN": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REFRESH_TOKEN"
}
}
}
},
"com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException":
{
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The digital signature method is unsupported. Try your request
again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#UntagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UntagResourceResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Removes the specified tags from the specified license configuration. "
}
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",
"traits": {
"smithy.api#documentation": " Keys identifying the tags to remove. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
"type": "structure",
"members": {},

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Modifies the attributes of an existing license configuration. "
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},

"LicenseConfigurationStatus": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
"traits": {
"smithy.api#documentation": " New status of the license configuration. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " New license rule. The only rule that you can add after you create a license\n configuration is licenseAffinityToHost. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " New number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",

"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
},
"traits":
{
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},

```
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates a report generator.</p>\n        <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to update.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportGeneratorName": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>",
                    "smithy.api#required": {}
                }
            },
            "Type": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports to generate. The following report types are supported:</p>\n        <ul>\n            <li>\n                <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p>\n            </li>\n            <li>\n                <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n            </li>\n        </ul>",
                    "smithy.api#required": {}
                }
            },
            "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
                    "smithy.api#documentation": "<p>The report context.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportFrequency": {
                "target": "com.amazonaws.licensemanager#ReportFrequency",
```

"traits":
{
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },

            {
                "target": "com.amazonaws.licensemanager#InvalidResourceStateException"
            },
            {
                "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p>\n        <p>You can update the license specifications of AMIs, instances, and
hosts.\n        You cannot update the license specifications for launch templates and CloudFormation templates, \n
  as they send license configurations to the operation that creates the resource.</p>"
        }
    },

    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "AddLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
                }
            },
            "RemoveLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation":
 "<p>ARNs of the license configurations to remove.</p>"
                }
```

```
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {},
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
    }
},
"com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
    "type": "structure",
    "members": {
        "S3BucketArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon S3 bucket where the License
Manager information is stored. "
}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Enables integration with Organizations for cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Activates cross-account discovery. "

}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UsageOperation": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
}
}
},
"com.amazonaws.licensemanager#ValidationException": {

```
            "type": "structure",
            "members": {
                "Message": {
                    "target": "com.amazonaws.licensemanager#Message"
                }
            },
            "traits": {
                "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",

        "smithy.api#error": "client",
                "smithy.api#httpError": 400
            }
        }
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {
```

```
 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version
 of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack,
 options); err != nil {
  return err
```

```
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if
 err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
```

```
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
```

1.3924 aws-sdk-go-v2-service-ssooidc 1.21.7

1.3924.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
```

```
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil,
 err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
```

```
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
if err !=
nil {
 return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack);
err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
```

AWS SDK for Go

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```
name: License Scan

on: [pull_request]

jobs:
 licensescan:
```

```
  name: License Scan
  runs-on: ubuntu-latest
  strategy:
    matrix:
      python-version: [3.9]

  steps:
    - name: Checkout target
      uses: actions/checkout@v2
      with:
        path: sdkbase
        ref: ${{ github.base_ref }}
    - name: Checkout this ref
      uses: actions/checkout@v2
      with:
        path: new-ref
        fetch-depth: 0
    - name: Get Diff
      run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
    - name: Get Target Files
      run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
       uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
```

```
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
```

```
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return
 err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckInLicense",
 }
}
{
   "smithy": "2.0",
   "shapes": {
       "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
```

"type": "integer"
},
"com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
"type": "long"
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of name to filter by. "
}
},
"Values": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " One or more values for the name to filter by. "
}
},
"Operator": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
"traits": {
"smithy.api#documentation": " An operator for filtering results. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter object that is used to return more specific results from a describe operation.\n Filters can be used to match a set of resources by specific criteria. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
},
"output": {

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
},
"errors": [

```
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the Linux subscriptions service settings.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/GetServiceSettings"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest":
{
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "LinuxSubscriptionsDiscovery": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
                "traits": {
                    "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
                }
            },
            "LinuxSubscriptionsDiscoverySettings": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
                "traits": {
                    "smithy.api#documentation": "<p>Lists the settings defined for Linux subscriptions discovery. The
settings include if\n      Organizations integration has been enabled, and
 which Regions data will be aggregated from.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
                }
```

```
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
                "traits": {
                    "smithy.api#documentation": "<p>A message which details the Linux subscriptions service settings
current status.</p>"
                }
            },
            "HomeRegions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>The Region in which License Manager displays
 the aggregated data for Linux\n      subscriptions.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
        "type": "structure",
        "members": {
            "AmiId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The AMI ID used to launch the instance.</p>"
                }
            },
            "InstanceID": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The instance ID of the resource.</p>"
                }
            },
            "InstanceType": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The instance type of the resource.</p>"
                }

        },
            "AccountID": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The account ID which owns the instance.</p>"
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
```

"smithy.api#documentation": " The status of the instance. "
}
},
"Region": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The Region the instance is running in. "
}
},
"UsageOperation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The usage operation of the instance. For more information, see For more information, see\n Usage\n operation values in the License Manager User Guide. "
}
},
"ProductCode": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
"traits": {
"smithy.api#documentation": " The product code for the instance. For more information, see Usage\n operation values in the License Manager User Guide . "
}
},
"LastUpdatedTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The time in which the last discovery updated the instance details. "
}
},
"SubscriptionName": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription being used by the instance. "
}
}
},
"traits": {
"smithy.api#documentation": " Details discovered information about a running instance using Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
"type": "list",
"member": {

```
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
    "type": "structure",
    "members": {
        "message": {
            "target": "smithy.api#String"
         }
    },
    "traits": {
        "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
        "smithy.api#error": "server"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
    "type": "service",
    "version": "2018-05-10",
    "operations": [
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
        }
    ],

"traits": {
        "aws.api#service": {
            "sdkId": "License Manager Linux Subscriptions",
            "arnNamespace": "license-manager-linux-subscriptions",
            "cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
        },
        "aws.auth#sigv4": {
            "name": "license-manager-linux-subscriptions"
        },
        "aws.protocols#restJson1": {},
        "smithy.api#cors": {
            "additionalAllowedHeaders": [
                "*",
                "content-type",
                "x-amz-content-sha256",
```

"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",

"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"
]
},
"smithy.api#documentation": " With License Manager, you can discover and track your commercial Linux subscriptions on running\n Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager Linux Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

```
 "type": "Boolean"
    },
    "Endpoint": {
        "builtIn": "SDK::Endpoint",
        "required": false,
        "documentation": "Override the endpoint used to send this request",
        "type": "String"
    }
},
"rules": [
    {
        "conditions": [
            {
                "fn": "isSet",
                "argv": [
                    {
                        "ref": "Endpoint"
                    }
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {

          "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseFIPS"
                            },
                            true
                        ]
                    }
                ],
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
                "type": "error"
            },
            {
                "conditions": [],
                "type": "tree",
                "rules": [
                    {

              "conditions": [
                            {
                                "fn": "booleanEquals",
```

```
                "argv": [
                  {
                    "ref": "UseDualStack"
                  },
                  true
                ]
              }
            ],
            "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
            "type": "error"
          },
          {
            "conditions": [],

        "endpoint": {
              "url": {
                "ref": "Endpoint"
              },
              "properties": {},
              "headers": {}
            },
            "type": "endpoint"
          }
        ]
      }
    ]
  },
  {
    "conditions": [],
    "type": "tree",
    "rules": [
      {
        "conditions": [
          {
            "fn": "isSet",

"argv": [
              {
                "ref": "Region"
              }
            ]
          }
        ],
        "type": "tree",
        "rules": [
          {
            "conditions": [
              {
```

```
                    "fn": "aws.partition",
                    "argv": [
                        {
                            "ref": "Region"
                        }
                    ],

"assign": "PartitionResult"
                }
            ],
            "type": "tree",
            "rules": [
                {
                    "conditions": [
                        {
                            "fn": "booleanEquals",
                            "argv": [
                                {
                                    "ref": "UseFIPS"
                                },
                                true
                            ]
                        },

        {
                            "fn": "booleanEquals",
                            "argv": [
                                {
                                    "ref": "UseDualStack"
                                },
                                true
                            ]
                        }
                    ],
                    "type": "tree",
                    "rules": [
                        {
                            "conditions": [
                                {

                            "fn": "booleanEquals",
                                    "argv": [
                                        true,
                                        {
                                            "fn": "getAttr",
                                            "argv": [
                                                {
                                                    "ref": "PartitionResult"
```

```
                                    },
                                    "supportsFIPS"
                                ]

        }
                                ]
                            },
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    true,
                                    {
                                        "fn": "getAttr",
                                        "argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },

                                "supportsDualStack"
                                        ]
                                    }
                                ]
                            }
                        ],
                        "type": "tree",
                        "rules": [
                            {
                                "conditions": [],
                                "type": "tree",
                                "rules": [
                                    {

                    "conditions": [],
                                        "endpoint": {
                                            "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                            "properties": {},
                                            "headers": {}
                                        },
                                        "type": "endpoint"
                                    }
                                ]
                            }
                        ]

                    },
                    {
                        "conditions": [],
```

"error": "FIPS and DualStack are enabled, but this partition does not support one or both",
"type": "error"
}
]
},
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{

"ref": "UseFIPS"
},
true
]
}
],
"type": "tree",
"rules": [
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
true,

{
"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsFIPS"
]
}
]
}
],
"type": "tree",

"rules": [
{
"conditions": [],
"type": "tree",
"rules": [
{

"conditions": [],
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.{Region}.{PartitionResult#dnsSuffix}",
"properties": {},
"headers": {}

},
"type": "endpoint"
}
]
}
]
},
{
"conditions": []
"error": "FIPS is enabled but this partition does not support FIPS",
"type": "error"
}
]

},
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseDualStack"
},
true
]
}
],
"type": "tree",
"rules": [
{

"conditions": [
{
"fn": "booleanEquals",
"argv": [
true,
{
"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"

```
                                    },
                                    "supportsDualStack"
                                ]
                            }
                        ]
                    }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [],
                        "type": "tree",
                        "rules": [
                            {
                                "conditions": [],

                            "endpoint": {
                                    "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                    "properties": {},
                                    "headers": {}
                                },
                                "type": "endpoint"
                            }
                        ]
                    }
                ]
            },

        {
                "conditions": [],
                "error": "DualStack is enabled but this partition does not support DualStack",
                "type": "error"
            }
        ]
    },
    {
        "conditions": [],
        "type": "tree",
        "rules": [
            {
                "conditions": [],
                "endpoint": {
                    "url":
"https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                    "properties": {},
                    "headers": {}
                },
```

"type": "endpoint"
}
]
}
]
}
]
},
{
"conditions": [],
"error": "Invalid Configuration: Missing Region",
"type": "error"
}
]
}
]
},
"smithy.rules#endpointTests": {
"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {

"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",

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    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
      }
    },
    "params": {
      "Region": "us-east-1",
      "UseFIPS": false,
       "UseDualStack": true
    }
  },
  {
    "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "us-east-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "endpoint": {

    "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
      }
    },
    "params": {
      "Region": "cn-north-1",
      "UseFIPS": true,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
      }
    },
    "params": {
      "Region": "cn-north-1",
      "UseFIPS": true,
```

"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint":
{
"url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"

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            }
        },
        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": true,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
        "expect": {
            "endpoint":
{
                "url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
            }
        },
        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
            "UseDualStack": true
        }
    },
    {
        "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
             "UseDualStack": false
        }
    },
    {
        "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
        "expect": {
            "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
        },
        "params": {
            "Region": "us-iso-east-1",
            "UseFIPS": true,
            "UseDualStack": true
        }
    },
    {
        "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
```

"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{

"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {

"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},

```
            {
              "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
                }
              },
              "params": {
                "Region": "us-isob-east-1",
                "UseFIPS": true,
                "UseDualStack": false
              }
            },
            {
              "documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
              "expect": {
                "error": "DualStack is enabled but this partition does not support DualStack"
              },
              "params": {
                "Region": "us-isob-east-1",
                "UseFIPS": false,
                "UseDualStack": true
              }
            },
            {
              "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
                }
              },
              "params": {
                "Region": "us-isob-east-1",

        "UseFIPS": false,
                "UseDualStack": false
              }
            },
            {
              "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://example.com"
                }
              },
              "params": {
                "Region": "us-east-1",
```

"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",

"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,

"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true,
"Endpoint": "https://example.com"
}
},
{
"documentation": "Missing region",
"expect": {

"error": "Invalid Configuration: Missing Region"
}

}
],
"version": "1.0"
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "Enabled",
"value": "Enabled",
"documentation": "Enabled LinuxSubscriptionsDiscovery"
},
{
"name": "Disabled",
"value": "Disabled",
"documentation": "Disabled LinuxSubscriptionsDiscovery"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
"type": "structure",
"members": {
"SourceRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Regions in which to discover data for Linux subscriptions. ",
"smithy.api#required": {}
}
},
"OrganizationIntegration": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
"traits": {
"smithy.api#documentation": " Details if you have enabled resource discovery across your accounts in Organizations. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Lists the settings defined for discovering Linux subscriptions. "

}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
"type":
"operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the running Amazon EC2 instances that were discovered with commercial Linux\n subscriptions. ",
"smithy.api#http": {

"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptionInstances"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Instances"
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by

```
 the name of\n        <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n
match, or don't match a certain Amazon Machine Image (AMI) ID.</p>\n        <p>The valid names for this filter
are:</p>\n        <ul>\n            <li>\n                <p>\n                <code>AmiID</code>\n                </p>\n
</li>\n            <li>\n                <p>\n                <code>InstanceID</code>\n                </p>\n            </li>\n
<li>\n                <p>\n                <code>AccountID</code>\n                </p>\n            </li>\n            <li>\n
<p>\n                <code>Status</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>Region</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>UsageOperation</code>\n                </p>\n            </li>\n            <li>\n
    <p>\n                <code>ProductCode</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
     <code>InstanceType</code>\n                </p>\n            </li>\n        </ul>\n        <p>The valid Operators for this
filter are:</p>\n        <ul>\n            <li>\n                <p>\n                <code>contains</code>\n                </p>\n
</li>\n            <li>\n                <p>\n                <code>equals</code>\n                </p>\n            </li>\n            <li>\n
        <p>\n                <code>Notequal</code>\n                </p>\n            </li>\n        </ul>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"

        }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>",
                    "smithy.api#length": {
                        "min": 1,
                        "max": 16384
                    }
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
        "type": "structure",
        "members": {
            "Instances": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
                "traits": {
                    "smithy.api#documentation":
 "<p>An array that contains instance objects.</p>"
                }
            },
```

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions that have been discovered. If you have linked your\n organization, the returned results will include data aggregated across your accounts in\n Organizations. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptions"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Subscriptions"
}

}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
"type": "structure",

"members": {
"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>Subscription</code> with an optional operator to see subscriptions that match,\n partially match, or don't match a certain subscription's name. \n The valid names for this filter are: \n \n \n \n <code>Subscription</code>\n \n \n \n The valid Operators for this filter are: \n \n \n \n <code>contains</code>\n \n \n \n \n <code>equals</code>\n \n \n \n \n <code>Notequal</code>\n \n \n "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. ",
"smithy.api#length": {

"min": 1,
"max": 16384
}
}
}
},
"traits": {
"smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
"type": "structure",
"members": {
"Subscriptions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
"traits": {
"smithy.api#documentation": " An array that contains subscription objects. "
}
},
"NextToken": {

"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for
the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "EQUAL",
"value": "Equal",
"documentation": "Equal operator"
},
{
"name": "NOT_EQUAL",
"value": "NotEqual",
"documentation": "Not equal operator"
},
{
"name": "CONTAINS",
"value": "Contains",
"documentation": "Contains operator"
}
],
"smithy.api#length": {
"min": 1,
"max": 20
}
}
},

"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "Enabled",
"value": "Enabled",
"documentation": "Enabled OrganizationIntegration"
},
{
"name": "Disabled",
"value": "Disabled",
"documentation": "Disabled OrganizationIntegration"

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                }
            ]
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
        "type": "list",
        "member": {
            "target": "smithy.api#String"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [

   {
                "name": "InProgress",
                "value": "InProgress",
                "documentation": "InProgress status"
            },
            {
                "name": "Completed",
                "value": "Completed",
                "documentation": "Completed status"
            },
            {
                "name": "Successful",
                "value": "Successful",
                "documentation": "Successful status"
            },
            {
                "name": "Failed",
                "value": "Failed",
                "documentation": "Failed status"
            }
            ]
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
        "type": "list",
        "member": {
            "target": "smithy.api#String",
            "traits":
{
                "smithy.api#length": {
                    "min": 1,
                    "max": 100
                }
```

```
            }
        },
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max": 100
            },
            "smithy.api#uniqueItems": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
        "type": "map",
        "key": {
            "target": "smithy.api#String"
        },
        "value": {
            "target": "smithy.api#String"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the subscription.</p>"

        }
            },
            "Type": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own\n      Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the\n      Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS.</p>"
                }
            },
            "InstanceCount": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>The total amount of running instances using this subscription.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>An object which details a discovered Linux
```

subscription. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request was denied due to request throttling. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
},

"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates the service settings for Linux subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/UpdateServiceSettings"
},

"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest":
{
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Describes if the discovery of Linux subscriptions is enabled. ",
"smithy.api#required": {}
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. ",

"smithy.api#required": {}
}
},
"AllowUpdate": {
"target": "smithy.api#Boolean",
"traits": {
"smithy.api#documentation": " Describes if updates are allowed to the service settings for Linux subscriptions. If you\n allow updates, you can aggregate Linux subscription data in more than one home Region. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},

"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The

settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation":
" A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The provided input is not valid. Try your request again. ",
"smithy.api#error": "client"
}
}
}
}

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - Beneficiary
 //   - ProductSKU
 //   - Fingerprint
 //
   - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {
```

```
 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if
 err := addProtocolFinalizerMiddlewares(stack, options, "ListLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
```

```
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
```

```
    ServiceID,
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 //
 This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string
```

```
 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack,
 options, "DisassociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
```

```
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
```

```
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
```

```
CheckoutLicenseInput struct {

// Checkout type.
//
// This member is required.
CheckoutType types.CheckoutType

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string
```

```
// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource
Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil
 {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
```

```
 return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier
 that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string
```

```
 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return
 err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
```

```
 return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide
 to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
```

```
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity
 *types.DatetimeRange

 // Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
  return fmt.Errorf("add
 protocol finalizers: %v", err)
 }
```

```
if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
```

```
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName:
 "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
```

```
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
```

```
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return
err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack);
err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
```

```
err != nil {
 return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "GetLicense",
 }
}
```

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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
   - ProductSKU
 //   - Status
 //   - Fingerprint
 //   - IssuerName
```

```
//   - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
 middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
```

```
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack);
err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
 }
}
```

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```
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
```

```
        },
        "traits": {
            "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
        "type": "structure",
        "members": {
            "DirectoryId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
"<p>Details about an Active Directory identity provider.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Associates the user to an EC2 instance to utilize user-based
subscriptions.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related
costs will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing
status) in Amazon Web Services Billing. For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n
        monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/AssociateUser"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the
 EC2 instance, which provides user-based subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>The identity provider of the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
```

```
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
        "type": "structure",
        "members": {
            "InstanceUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
                 "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
        "type": "integer"
    },
    "com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request couldn't be completed because it conflicted with the current
state of the\n      resource.</p>",
            "smithy.api#error": "server"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider":
 {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deregisters the identity provider from providing user-based
subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/DeregisterIdentityProvider"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
        "type": "structure",
```

"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation":
" Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Disassociates the user from an EC2 instance providing user-based
subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",

```
                "uri": "/user/DisassociateUser"
            },
            "smithy.api#idempotent": {}
        }

    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation":
 "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
        "type": "structure",
        "members": {
            "InstanceUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
                    "smithy.api#required": {}
```

```
                }
            }
        }
    },

"com.amazonaws.licensemanagerusersubscriptions#Filter": {
        "type": "structure",
        "members": {
            "Attribute": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of an attribute to use as a filter.</p>"
                }
            },
            "Operation": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The type of search (For example, eq, geq, leq)</p>"
                }
            },
            "Value": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Value of the filter.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A filter name and value pair that is used
 to return more specific results from a describe\n      operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n      attributes, or IDs.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#FilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
        "type": "union",
        "members": {
            "ActiveDirectoryIdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that details an Active Directory identity provider.</p>"
                }
            }
```

```
        },
        "traits": {
          "smithy.api#documentation":
 "<p>Details about an identity provider.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
        "type": "structure",
        "members": {
          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
              "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "Settings": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
            "traits": {
              "smithy.api#documentation": "<p>An object that details the registered identity providers product
related configuration\n      settings such as the subnets to provision VPC endpoints.</p>",
              "smithy.api#required":
 {}
            }
          },
          "Product": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
              "smithy.api#required": {}
            }
          },
          "Status": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The status of an identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "FailureMessage": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The failure message associated with an identity provider.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation":
```

" Describes an identity provider. "
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
                    "smithy.api#required": {}
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": " The status of an EC2 instance resource. ",
                    "smithy.api#required": {}
                }
            },
            "Products": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
                "traits": {
                    "smithy.api#documentation": " A list of provided user-based subscription products. ",
                    "smithy.api#required": {}
                }
            },
            "LastStatusCheckDate": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": " The date of the last status check. "
                }
            },
            "StatusMessage": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": " The status message for an EC2 instance. "
                }

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    }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes an EC2 instance providing user-based subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
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        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
        }
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    "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits":
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                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status of a user associated with an EC2 instance.</p>",
                    "smithy.api#required": {}
                }
            },
            "StatusMessage": {
                "target": "smithy.api#String",
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"traits": {
"smithy.api#documentation": " The status message for users of an EC2 instance. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"AssociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was associated with an EC2 instance. "
}
},
"DisassociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was disassociated from an EC2 instance. "
}
}

},
"traits": {
"smithy.api#documentation": " Describes users of an EC2 instance providing user-based subscriptions. "
}
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"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
}
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"com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " An exception occurred with the service. ",
"smithy.api#error": "server"
}
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"com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {

"type": "service",

"version": "2018-05-10",
"operations": [
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"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
}
],
"traits": {
"aws.api#service": {
"sdkId": "License Manager User Subscriptions",
"arnNamespace": "license-manager-user-subscriptions",
"cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
},
"aws.auth#sigv4": {
"name": "license-manager-user-subscriptions"

},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
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"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",
"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"

]
},
"smithy.api#documentation": " With License Manager, you can create user-based subscriptions to utilize licensed software with\n a per user subscription fee on Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager User Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",

"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}

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"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
]
}
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"type": "tree",
"rules": [
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"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
},

true
]
}
],
"error": "Invalid Configuration: FIPS and custom endpoint are not supported",
"type": "error"
},
{
"conditions": [
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"fn": "booleanEquals",

"argv": [
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"ref": "UseDualStack"
},
true
]
}
],

"error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
"type": "error"
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"conditions": [],
"endpoint": {
"url": {
"ref": "Endpoint"
},
"properties": {},
"headers": {}
},
"type": "endpoint"
}
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"fn": "isSet",
"argv": [

{
"ref": "Region"
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"argv": [
{
"ref": "Region"
}
],

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                        "argv": [
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                                "ref": "UseFIPS"
                            },
                            true
                        ]
                    },
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseDualStack"

                            },
                            true
                        ]
                    }
                ],
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                "rules": [
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                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    true,
                                    {
                                        "fn": "getAttr",

"argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },
                                            "supportsFIPS"
                                        ]
                                    }
                                ]
                            },
```

```
                    {
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                      "argv": [
                        true,
                        {

            "fn": "getAttr",
                          "argv": [
                            {
                              "ref": "PartitionResult"
                            },
                            "supportsDualStack"
                          ]
                        }
                      ]
                    }
                  ],
                  "type": "tree",
                  "rules": [
                    {

          "conditions": [],
                      "endpoint": {
                        "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                        "properties": {},
                        "headers": {}
                      },
                      "type": "endpoint"
                    }
                  ]
                },
                {
                  "conditions": [],
                  "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
                   "type": "error"
                }
              ]
            },
            {
              "conditions": [
                {
                  "fn": "booleanEquals",
                  "argv": [
                    {
                      "ref": "UseFIPS"
                    },
```

```
                    true
                ]
            }
        ],
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    "rules": [
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                "conditions": [
                    {
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                        "argv": [
                            true,
                            {
                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsFIPS"

                    ]
                            }
                        ]
                    }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [],
                        "endpoint": {
                            "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                            "properties": {},
                            "headers": {}

        },
                        "type": "endpoint"
                    }
                ]
            },
            {
                "conditions": [],
                "error": "FIPS is enabled but this partition does not support FIPS",
                "type": "error"
            }
        ]
    },
```

```
{
  "conditions": [
    {
      "fn": "booleanEquals",
      "argv": [
        {
          "ref": "UseDualStack"
        },
        true
      ]
    }
  ],
  "type": "tree",
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            true,
            {

              "fn": "getAttr",
                "argv": [
                  {
                    "ref": "PartitionResult"
                  },
                  "supportsDualStack"
                ]
            }
          ]
        }
      ],
      "type": "tree",
      "rules": [
        {

          "conditions": [],
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            "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
            "properties": {},
            "headers": {}
          },
          "type": "endpoint"
        }
      ]
    },
```

{
"conditions": [],
"error": "DualStack is enabled but this partition does
not support DualStack",
"type": "error"
}
]
},
{
"conditions": [],
"endpoint": {
"url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
}
]
},
{
"conditions":
[],
"error": "Invalid Configuration: Missing Region",
"type": "error"
}
]
},
"smithy.rules#endpointTests": {
"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation":

"For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {
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}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
}
},

"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
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"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with
FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
}
},

"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},

"params": {
"Region": "cn-north-1",
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"UseDualStack": false
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"expect": {
"endpoint": {
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}
},
"params": {
"Region": "cn-north-1",
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"UseDualStack": true
}
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with FIPS disabled and DualStack disabled",
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}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{

"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
}
},

"params": {
"Region": "us-gov-east-1",
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"UseDualStack": true
}
},
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}
},
"params": {
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"UseDualStack": false
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"documentation": "For region us-gov-east-1
with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
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"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
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}
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"params": {
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"UseFIPS": false,
"UseDualStack": false
}
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"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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"UseFIPS": true,
"UseDualStack": true
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"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect":
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"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
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"params": {
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"UseFIPS": true,
"UseDualStack": false
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"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
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"UseFIPS": false,
"UseDualStack":
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"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"

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                }
            },
            "params": {
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                "UseFIPS": false,
                "UseDualStack": false
            }
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            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
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this partition does not support one or both"
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                "UseFIPS": true,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
                }
            },
            "params": {
                "Region": "us-isob-east-1",
                "UseFIPS": true,
                "UseDualStack": false
            }

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        {
            "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
                "error": "DualStack is enabled but this partition does not support DualStack"
            },
            "params": {
                "Region": "us-isob-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
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"endpoint": {
"url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
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"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
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"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
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"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
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"url": "https://example.com"
}
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"params": {
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
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"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,
"Endpoint": "https://example.com"

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                }
            },
            {
                "documentation": "For custom endpoint with fips disabled and dualstack enabled",
                "expect": {
                    "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
                },
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                    "UseFIPS": false,
                    "UseDualStack": true,
                    "Endpoint": "https://example.com"
                }
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                "documentation": "Missing region",
                "expect": {
                    "error": "Invalid Configuration: Missing Region"
                }
            }
        ],
        "version": "1.0"
    }
  }
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
```

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            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the identity providers for user-based subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/ListIdentityProviders"
            },
            "smithy.api#paginated":
{
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "IdentityProviderSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
{
        "type": "structure",
        "members": {
            "IdentityProviderSummaries": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
                "traits": {
```

```
            "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
            "smithy.api#required": {}
          }
        },
        "NextToken": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
        "smithy.api#http": {
          "code": 200,
          "method": "POST",
```

"uri": "/instance/ListInstances"
},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "InstanceSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
"type": "structure",
"members": {
"InstanceSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list instances operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "

```
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
             }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the user-based subscription products available from an identity
provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListProductSubscriptions"
            },
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "ProductUserSummaries"
```

```
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name
 of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {

  "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match
 one or\n      more sets of key-value pairs that you specify.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
        "type": "structure",
        "members": {
            "ProductUserSummaries": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
```

"traits": {
"smithy.api#documentation": " Metadata that describes the list product subscriptions operation. "
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists user associations for an identity provider. ",

"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/ListUserAssociations"
},
"smithy.api#paginated":
{
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "InstanceUserSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
"type": "structure",
"members": {
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based
subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity
provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those
that match one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",

"traits": {
"smithy.api#documentation": " Token for
the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
"type": "structure",
"members": {
"InstanceUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list user association operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
"type": "structure",
"members": {

"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider of the user. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}

```
    },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status of a product for a user.</p>",
                    "smithy.api#required": {}
                }
            },
            "StatusMessage": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status message for a product for a user.</p>"
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            },
            "SubscriptionStartDate": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The
start date of a subscription.</p>"
                }
            },
            "SubscriptionEndDate": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The end date of a subscription.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The summary of the user-based subscription products for a user.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
        "type": "operation",
        "input": {
```

"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Registers an identity provider for user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/RegisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}

```
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Settings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
                "traits": {
                    "smithy.api#documentation": "<p>The registered identity providers product related configuration
settings such as the\n      subnets to provision VPC endpoints.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
        "type": "structure",
        "members": {
            "IdentityProviderSummary":
 {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the results of an identity provider
operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The resource couldn't be found.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 404
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
        "type": "string",
```

"traits": {
"smithy.api#length": {
"min": 5,
"max": 200
},
"smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request failed because a service quota is exceeded. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Settings": {
"type": "structure",
"members": {
"Subnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation":
" The subnets defined for the registered identity provider. ",
"smithy.api#length": {
"min": 1
},
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID that allows inbound TCP port 1688
communication between resources in\n your VPC and the VPC endpoint for activation servers. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings
such as the\n subnets to provision VPC endpoints, and the security group ID that
is associated with the VPC\n endpoints. The security group should permit inbound TCP port 1688
communication from resources\n in the VPC. "

```
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Starts a product subscription for a user with the specified identity
provider.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related costs
will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status)
in Amazon Web Services Billing.
 For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n          monthly
charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/StartProductSubscription"
            }
        }
    },
```

"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider of the user. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
"type": "structure",
"members": {
"ProductUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the start product subscription operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
"type": "operation",
"input": {

"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Stops a product subscription for a user with the specified identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/StopProductSubscription"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}

```
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required":
{}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
        "type": "structure",
        "members": {
            "ProductUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
                "traits": {
                    "smithy.api#documentation":
"<p>Metadata that describes the start product subscription operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StringList": {
        "type": "list",
        "member": {
            "target": "smithy.api#String"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Subnet": {
        "type": "string",
        "traits": {
            "smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
        }
```

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#Subnets": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
            "message": {

             "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request was denied because of request throttling. Retry the
request.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates additional product configuration settings for the registered
identity\n      provider.</p>",
            "smithy.api#http": {
                "code": 200,
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            "method": "POST",
            "uri": "/identity-provider/UpdateIdentityProviderSettings"
          },
          "smithy.api#idempotent": {}
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
        "type": "structure",
        "members": {
          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
             "traits": {
              "smithy.api#required": {}
            }
          },
          "Product": {
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              "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
              "smithy.api#required": {}
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configuration settings. You can\n      update any combination of settings in a single operation such as the:</p>\n
<ul>\n            <li>\n              <p>Subnets which you want to add to provision VPC endpoints.</p>\n            </li>\n
          <li>\n              <p>Subnets which you want to remove the VPC endpoints from.</p>\n            </li>\n
<li>\n              <p>Security group ID which permits traffic to the VPC endpoints.</p>\n            </li>\n        </ul>",
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"smithy.api#required": {}
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"smithy.api#documentation": " The ID of one or more subnets to remove. ",
"smithy.api#required": {}
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"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
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"smithy.api#documentation": " A security group ID that allows inbound TCP port 1688 communication between resources in\n your VPC and the VPC endpoints for activation servers. "
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"smithy.api#documentation": " Updates the registered identity providers product related configuration settings such as\n the subnets to provision VPC endpoints. "
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"target": "com.amazonaws.licensemanager#UpdateServiceSettings"
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"cloudTrailEventSource": "licensemanager.amazonaws.com",

"endpointPrefix": "license-manager"
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"aws.auth#sigv4": {
"name": "license-manager"
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"aws.protocols#awsJson1_1": {},
"smithy.api#documentation": " License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers. ",
"smithy.api#title": "AWS License Manager",
"smithy.api#xmlNamespace": {
"uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
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"smithy.rules#endpointRuleSet": {
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"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
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"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
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"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
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                    "argv": [
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                        "argv": [
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                            "ref": "PartitionResult"
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"supportsDualStack"
                        ]
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fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
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                        "type": "endpoint"
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both",
                "type": "error"
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    "type": "error"
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                        "type": "error"
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                "UseDualStack": false
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            "expect": {
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"params": {
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        "UseDualStack": false
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    },
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              "expect": {
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                  "url": "https://license-manager.us-east-1.api.aws"
                }
              },
```

"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url":
"https://license-manager.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-northwest-1",
"UseFIPS": false,
"UseDualStack": false

}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
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"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
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"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
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{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
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{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-gov-east-1.amazonaws.com"
}
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"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",

"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-gov-west-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-west-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation":
"For region us-gov-west-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-west-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-gov-east-1.api.aws"
}
},

"params": {
"Region": "us-gov-east-1",
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"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
"expect": {

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                "url": "https://license-manager.us-gov-east-1.api.aws"
            }
        },
        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
            "UseDualStack": true
        }
    },
    {
        "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack
disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
            }
        },
        "params": {
            "Region": "us-iso-east-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
        "expect": {
            "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
        },
        "params": {
            "Region": "us-iso-east-1",
            "UseFIPS": true,
             "UseDualStack": true
        }
    },
    {
        "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
            }
        },
        "params": {
            "Region": "us-iso-east-1",
            "UseFIPS": true,
            "UseDualStack": false
        }
    },
```

{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled
but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},

{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
}
},

"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,

"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,

"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"

```
                },
                "params": {
                    "Region": "us-east-1",
                    "UseFIPS": true,
                    "UseDualStack": false,
                    "Endpoint": "https://example.com"
                }
            },
            {
                "documentation": "For custom endpoint with fips disabled and dualstack enabled",
                "expect": {
                    "error":
"Invalid Configuration: Dualstack and custom endpoint are not supported"
                },
                "params": {
                    "Region": "us-east-1",
                    "UseFIPS": false,
                    "UseDualStack": true,
                    "Endpoint": "https://example.com"
                }
            },
            {
                "documentation": "Missing region",
                "expect": {
                    "error": "Invalid Configuration: Missing Region"
                }
            }
        ],
        "version": "1.0"
    }
  }
},
"com.amazonaws.licensemanager#AcceptGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#AcceptGrantRequest"

},
    "output": {
        "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
```

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"

    }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant
ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
```

"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#AccessDeniedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {

"code": "ServiceAccessDenied",
"httpResponseCode": 401
},
"smithy.api#documentation": " Access to resource denied. ",
"smithy.api#error": "client",
"smithy.api#httpError": 401
}
},
"com.amazonaws.licensemanager#ActivationOverrideBehavior": {
"type": "enum",
"members": {
"DISTRIBUTED_GRANTS_ONLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
}
},
"ALL_GRANTS_PERMITTED_BY_ISSUER": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
}
}

```
        }
    },
    "com.amazonaws.licensemanager#AllowedOperation": {

    "type": "enum",
        "members": {
            "CREATE_GRANT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "CreateGrant"
                }
            },
            "CHECKOUT_LICENSE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "CheckoutLicense"
                }
            },
            "CHECKOUT_BORROW_LICENSE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "CheckoutBorrowLicense"
                }
            },
            "CHECK_IN_LICENSE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "CheckInLicense"
                }
            },
            "EXTEND_CONSUMPTION_LICENSE":
{
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "ExtendConsumptionLicense"
                }
            },
            "LIST_PURCHASED_LICENSES": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "ListPurchasedLicenses"
                }
            },
            "CREATE_TOKEN": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "CreateToken"
                }
```

```
            }
        }
    },
    "com.amazonaws.licensemanager#AllowedOperationList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#AllowedOperation"
        },
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max":
7
            }
        }
    },
    "com.amazonaws.licensemanager#Arn": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 2048
            },
            "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-
z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
        }
    },
    "com.amazonaws.licensemanager#ArnList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Arn"
        }
    },
    "com.amazonaws.licensemanager#AuthorizationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError":
{
                "code": "AuthorizationFailure",
                "httpResponseCode": 403
            },
            "smithy.api#documentation": "<p>The Amazon Web Services user account does not have permission to
perform the action. Check the IAM\n        policy associated with this account.</p>",
```

```
            "smithy.api#error": "client",
            "smithy.api#httpError": 403
        }
    },
    "com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
        "type": "structure",
        "members": {
            "LastRunTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes automated discovery.</p>"
        }
    },

  "com.amazonaws.licensemanager#Boolean": {
        "type": "boolean",
        "traits": {
            "smithy.api#default": false
        }
    },
    "com.amazonaws.licensemanager#BorrowConfiguration": {
        "type": "structure",
        "members": {
            "AllowEarlyCheckIn": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether early check-ins are allowed.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxTimeToLiveInMinutes": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
                    "smithy.api#required": {}
                }
            }

},
        "traits": {
            "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
        }
    },
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"com.amazonaws.licensemanager#BoxBoolean": {
    "type": "boolean"
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"com.amazonaws.licensemanager#BoxInteger": {
    "type": "integer"
},
"com.amazonaws.licensemanager#BoxLong": {
    "type": "long"
},
"com.amazonaws.licensemanager#CheckInLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"

},
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": " Checks in the specified license. Check in a license when it is no longer in use. "
    }

```
    },
    "com.amazonaws.licensemanager#CheckInLicenseRequest":
{
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicense":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members":
 {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
 use the borrow consumption configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
                    "smithy.api#required": {}
```

```
                }
            },
            "DigitalSignatureMethod": {
                "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
                "traits": {
                    "smithy.api#documentation": "<p>Digital signature method. The possible
 value is JSON Web Signature (JWS) algorithm PS384.\n         For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>",
                    "smithy.api#required": {}
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation":
 "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed":
{
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " Allowed license entitlements. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"SignedToken": {
"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout
is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutLicense": {
"type": "operation",

"input": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target":
"com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks out the specified license. \n <note>\n If the account that created the license is the same that is performing the check out, you must\n specify the account as the beneficiary. \n </note>"
}
},
"com.amazonaws.licensemanager#CheckoutLicenseRequest": {
"type": "structure",
"members": {

"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product
SKU. ",
"smithy.api#required": {}
}
},
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. ",
"smithy.api#required": {}
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Key fingerprint identifying the license. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. ",

"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "

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            }
        }
    },
    "traits": {

   "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
    "type": "structure",
    "members": {
        "CheckoutType": {
            "target": "com.amazonaws.licensemanager#CheckoutType",
            "traits": {
                "smithy.api#documentation": "<p>Checkout type.</p>"
            }
        },
        "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
            }
        },
        "EntitlementsAllowed": {
            "target": "com.amazonaws.licensemanager#EntitlementDataList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
            }
        },
         "SignedToken": {
            "target": "com.amazonaws.licensemanager#SignedToken",
            "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
            }
        },
        "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        },
        "IssuedAt": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
            }
        },
        "Expiration": {
```

"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and
time at which the license checkout expires. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the checkout license. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutType": {
"type": "enum",
"members": {
"PROVISIONAL": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PROVISIONAL"
}
},
"PERPETUAL": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PERPETUAL"
}
}
}
},
"com.amazonaws.licensemanager#ClientRequestToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 36
}
}
},
"com.amazonaws.licensemanager#ClientToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,

```
                "max": 2048
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
    "com.amazonaws.licensemanager#ConflictException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ConflictException",
                "httpResponseCode":
 409
            },
            "smithy.api#documentation": "<p>There was a conflict processing the request. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 409
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
                }
            },
            "ConsumedLicenses": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
                }
            }
        },

 "traits": {
            "smithy.api#documentation": "<p>Details about license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
        "type": "list",
        "member": {
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"target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
}
},
"com.amazonaws.licensemanager#ConsumptionConfiguration": {
"type": "structure",
"members": {
"RenewType": {
"target": "com.amazonaws.licensemanager#RenewType",
"traits": {
"smithy.api#documentation": " Renewal frequency. "
}
},
"ProvisionalConfiguration": {
"target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"BorrowConfiguration": {
"target": "com.amazonaws.licensemanager#BorrowConfiguration",
"traits": {
"smithy.api#documentation": " Details about a borrow configuration. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a consumption configuration. "
}
},
"com.amazonaws.licensemanager#CreateGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target":
"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},

{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a grant for the specified license. A grant shares the use of license\n entitlements with a specific Amazon Web Services account, an organization, or an\n organizational unit (OU). For more
information, see Granted licenses in License Manager in the License Manager User Guide. "
}
},
"com.amazonaws.licensemanager#CreateGrantRequest": {
"type": "structure",
"members": {
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}

}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Principals": {

"target": "com.amazonaws.licensemanager#PrincipalArnList",
"traits": {
"smithy.api#documentation": " The grant principals. You can specify one of the following as an Amazon Resource Name\n (ARN): \n \n \n An Amazon Web Services account, which includes only the account specified. \n \n \n \n \n An organizational unit (OU), which includes all accounts in the OU. \n \n \n \n \n An organization, which will include all accounts across your organization. \n \n ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},

"com.amazonaws.licensemanager#CreateGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateGrantVersion":
{
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a new version of the specified grant. For more information, see\n Granted licenses in License Manager in the License Manager User Guide. "
}
},

"com.amazonaws.licensemanager#CreateGrantVersionRequest": {
"type": "structure",
"members": {
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",

"smithy.api#required": {}
}
},
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the grant. "
}

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            },
            "Options": {
                "target": "com.amazonaws.licensemanager#Options",
                "traits": {
                    "smithy.api#documentation": "<p>The options specified for the grant.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>New version of the grant.</p>"
                }
            }
        },
        "traits":
{
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
        },
        "errors": [
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            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
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"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Creates a license configuration. \n A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a \n license must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension used to track the license inventory. ",
"smithy.api#required": {}
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used.

Exceeding a hard limit\n blocks the launch of new instances. "
}
},
"LicenseRules": {
"target":
"com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. The syntax is #name=value (for example,
#allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows. \n
\n \n \n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n
<code>licenseAffinityToHost</code> |\n <code>maximumCores</code> |
<code>minimumCores</code>\n \n \n \n \n
<code>Instances</code> dimension: <code>allowedTenancy</code> | \n <code>maximumCores</code> |
<code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n
<code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n
\n
\n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n
<code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> |
<code>minimumSockets</code>\n \n \n \n \n
<code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n
<code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> |
<code>minimumVcpus</code>\n \n \n \n The unit for
<code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for
<code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n
<code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n
<code>True</code> and <code>False</code>. "
}
},

"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the license configuration. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is
uninstalled. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
}

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        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse":
{
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
```

"traits": {
"smithy.api#documentation": " Creates a new license conversion task. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {

"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource you are converting the license type for. ",
"smithy.api#required": {}
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting from. \n\n For the structure of the source license, see Convert a license type using the CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
},
"DestinationLicenseContext":
{
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting to. For the structure of the destination license, see Convert a license type using the CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

"traits": {
"smithy.api#documentation": " The ID of the created license type conversion task. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a report generator. "
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {

"type": "structure",
"members": {
"ReportGeneratorName":
{
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types an be generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}

}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " Defines the type of license configuration the report generator tracks. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique,
case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the new report
generator. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseRequest": {
"type": "structure",
"members": {
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product
name. ",
"smithy.api#required": {}
}

```
            },
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "Issuer": {
                "target": "com.amazonaws.licensemanager#Issuer",
                "traits": {
                    "smithy.api#documentation": "<p>License issuer.</p>",
                    "smithy.api#required": {}
                }
            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Home Region for the license.</p>",
                    "smithy.api#required": {}

    }
            },
            "Validity": {
                "target": "com.amazonaws.licensemanager#DatetimeRange",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",
                    "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>",
                    "smithy.api#required": {}
                }
             },
            "ConsumptionConfiguration": {
                "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
                "traits": {
```

"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation":
" Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {

"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a new version of the specified license. "
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target":
"com.amazonaws.licensemanager#Arn",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits":
{
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"Entitlements": {

"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},

"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",

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            "traits": {
                "smithy.api#documentation": "<p>License ARN.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>New version of the license.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output":
{}
    }
},
"com.amazonaws.licensemanager#CreateToken": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateTokenResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
```

{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a long-lived token. \n A refresh token is a JWT token used to get an access token. With an access token,\n you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n call License Manager to manage the specified license. "
}
},
"com.amazonaws.licensemanager#CreateTokenRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits":
{
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n JWT token. ",
"smithy.api#required": {}
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n License Manager does not check whether the roles are in use. "
}
},
"ExpirationInDays": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Token expiration, in days, counted from token creation. The default is 365 days. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller to be included in the JWT token. The data is mapped\n to the amr claim of the JWT token. "
}

```
        },
        "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientToken",
            "traits": {
                "smithy.api#documentation": "<p>Idempotency token, valid for 10 minutes.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CreateTokenResponse": {
    "type": "structure",
    "members": {
        "TokenId": {
            "target": "com.amazonaws.licensemanager#String",

         "traits": {
                "smithy.api#documentation": "<p>Token ID.</p>"
            }
        },
        "TokenType": {
            "target": "com.amazonaws.licensemanager#TokenType",
            "traits": {
                "smithy.api#documentation": "<p>Token type.</p>"
            }
        },
        "Token": {
            "target": "com.amazonaws.licensemanager#TokenString",
            "traits": {
                "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#DateTime": {
    "type": "timestamp"
},
"com.amazonaws.licensemanager#DatetimeRange": {
    "type": "structure",
    "members": {
        "Begin": {
```

```
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Start of the time range.</p>",
                "smithy.api#required": {}
            }
        },
        "End": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>End of the time range.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
    }
},
"com.amazonaws.licensemanager#DeleteGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
```

"traits": {
"smithy.api#documentation": " Deletes
the specified grant. "
}
},
"com.amazonaws.licensemanager#DeleteGrantRequest": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " The Status reason for the delete request. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the
grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}

```
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
```

"traits": {
"smithy.api#documentation": " Deletes the specified license. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license configuration. \n You cannot delete a license configuration that is in use. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
"type": "structure",
"members":
{
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the license configuration. ",
"smithy.api#required": {}
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified report generator. \n This action deletes the report generator, which stops it from generating future reports.\n The action cannot be reversed. It has no effect on the previous reports from this generator. "

```
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to be
deleted.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {

 "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>",
                    "smithy.api#required":
 {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
```

```
},
"com.amazonaws.licensemanager#DeleteLicenseResponse": {
    "type": "structure",
    "members": {
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        },
        "DeletionDate": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date when the license is deleted.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#DeleteToken": {
    "type": "operation",
     "input": {
        "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
```

{
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": " Deletes the specified token. Must be called in the license home Region. "
    }
},
"com.amazonaws.licensemanager#DeleteTokenRequest": {
    "type": "structure",
    "members": {
        "TokenId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": " Token ID. ",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#DeleteTokenResponse": {
    "type": "structure",
    "members": {},
    "traits": {
        "smithy.api#output": {}

  }
},
"com.amazonaws.licensemanager#DigitalSignatureMethod": {
    "type": "enum",
    "members": {
        "JWT_PS384": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "JWT_PS384"
            }
        }
    }
},
"com.amazonaws.licensemanager#Entitlement": {
    "type": "structure",
    "members": {
        "Name": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement resource. Use only
if the unit is None. "
}
},
"MaxCount": {
"target": "com.amazonaws.licensemanager#Long",
"traits": {
"smithy.api#documentation": " Maximum entitlement count. Use if the unit is not None. "
}
},
"Overage": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether overages are allowed. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementUnit",
"traits": {
"smithy.api#documentation": " Entitlement unit. ",
"smithy.api#required": {}
}
},
"AllowCheckIn": {
"target":
"com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether check-ins are allowed. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a resource entitled for use with a license. "
}
},
"com.amazonaws.licensemanager#EntitlementData": {
"type": "structure",
"members": {
"Name": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement
data value. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {
"smithy.api#documentation": " Entitlement data unit. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Data associated with an entitlement resource. "
}
},
"com.amazonaws.licensemanager#EntitlementDataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#EntitlementData"
}
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
"type": "enum",
"members": {
"COUNT": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Count"
}
},
"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"SECONDS": {

"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Seconds"
}
},
"MICROSECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Microseconds"
}
},
"MILLISECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Milliseconds"
}
},
"BYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes"
}
},
"KILOBYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes"
}
},
"MEGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes"
}
},
"GIGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes"
}
},
"TERABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS":

{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"

}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"
}
},
"KILOBYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes/Second"
}

```
        },
        "MEGABYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Megabytes/Second"
          }
        },
        "GIGABYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
           "traits": {
            "smithy.api#enumValue": "Gigabytes/Second"
          }
        },
        "TERABYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Terabytes/Second"
          }
        },
        "BITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Bits/Second"
          }
        },
        "KILOBITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Kilobits/Second"
          }
        },
        "MEGABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue":
"Megabits/Second"
          }
        },
        "GIGABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Gigabits/Second"
          }
        },
        "TERABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Terabits/Second"
```

```
            }
        },
        "COUNT_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Count/Second"
            }
        }
    }
},
"com.amazonaws.licensemanager#EntitlementList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Entitlement"
    }
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#EntitlementUnit": {
    "type": "enum",
    "members": {
        "COUNT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Count"
            }
        },
        "NONE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "None"
            }
        },
        "SECONDS":
{
            "target": "smithy.api#Unit",
```

```
    "traits": {
        "smithy.api#enumValue": "Seconds"
    }
},
"MICROSECONDS": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Microseconds"
    }
},
"MILLISECONDS": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Milliseconds"
    }
},
"BYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Bytes"
    }
},
"KILOBYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Kilobytes"
     }
},
"MEGABYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Megabytes"
    }
},
"GIGABYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Gigabytes"
    }
},
"TERABYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Terabytes"
    }
},
"BITS": {
    "target": "smithy.api#Unit",
```

"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"
}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target":
"smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"
}
},
"KILOBYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes/Second"
}
},

"MEGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes/Second"
}
},
"GIGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes/Second"
}
},
"TERABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Terabytes/Second"
}
},
"BITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits/Second"
}
},
"KILOBITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits/Second"
}
},
"MEGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits/Second"
}
},
"GIGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits/Second"
}
},

"TERABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits/Second"

```
            }
        },
        "COUNT_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Count/Second"
            }
        }
    }
},
"com.amazonaws.licensemanager#EntitlementUsage": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                "smithy.api#required": {}
            }
        },
        "ConsumedValue": {
            "target": "com.amazonaws.licensemanager#String",

       "traits": {
                "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxCount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
    }
},
"com.amazonaws.licensemanager#EntitlementUsageList":
```

```
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
```

"smithy.api#required": {}

}
},
"DryRun": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#default": false,
"smithy.api#documentation": " Checks whether you have the required permissions for the action, without actually making the request. Provides an error response if you do not have the required permissions. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},

"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license consumption expires. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#FailedDependencyException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
},
"ErrorCode": {
"target": "com.amazonaws.licensemanager#String"
}
},

"traits": {
"aws.protocols#awsQueryError": {
"code": "FailedDependency",
"httpResponseCode": 424
},
"smithy.api#documentation":
" A dependency required to run the API is missing. ",
"smithy.api#error": "client",
"smithy.api#httpError": 424
}
},
"com.amazonaws.licensemanager#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#FilterName",
"traits": {
"smithy.api#documentation": " Name of the filter. Filter names are case-sensitive. "
}
},
"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " The value of the filter, which is case-sensitive. You can only
specify one value for the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter
name and value pair that is used to return more specific results from a\n describe operation. Filters can be used
to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FilterLimitExceeded",
"httpResponseCode": 400
},
"smithy.api#documentation": " The request uses too many filters or too many filter values. ",
"smithy.api#error": "client",

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        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#FilterList": {
    "type": "list",
     "member": {
        "target": "com.amazonaws.licensemanager#Filter"
    }
},
"com.amazonaws.licensemanager#FilterName": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#FilterValue",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#Filters": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Filter",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#GetAccessToken": {
    "type": "operation",
    "input": {
         "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
```

```
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access
 tokens\n          are valid for one hour.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenRequest": {
        "type": "structure",
        "members": {
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT
token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenResponse":
 {
        "type": "structure",
        "members": {
            "AccessToken": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Temporary access token.</p>"
                }
            }
```

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    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"

   },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
```

```
            "smithy.api#required": {}
          }
        },
        "Version": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Grant version.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#GetGrantResponse": {
      "type": "structure",
      "members": {
        "Grant": {
          "target": "com.amazonaws.licensemanager#Grant",
          "traits": {
            "smithy.api#documentation": "<p>Grant details.</p>"
          }
        }
      },
      "traits": {

    "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#GetLicense": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
```

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"

},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license configuration. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
}
},
"traits":
{
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Unique ID for the license configuration. "
}
},
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension for which the licenses are counted. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",

"traits": {
"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",

"traits": {
"smithy.api#documentation": " Number of available licenses. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Sets the number of available licenses as a hard limit. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses assigned to resources. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License configuration status. "
}

},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},

"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When
true, disassociates a resource when software is uninstalled. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},

{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified license type conversion task. "
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information

about the license type converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted to. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " Status of the license type conversion task. "
}
},

"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was started . "
}
},
"LicenseConversionTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Amount of time to complete the license type conversion. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was completed. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGenerator":

```
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

         },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
                    "smithy.api#required":
```

{}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"ReportGenerator": {
"target": "com.amazonaws.licensemanager#ReportGenerator",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic reports about your license configurations. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseResponse": {
"type": "structure",
"members": {

```
            "License": {
                "target": "com.amazonaws.licensemanager#License",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },

"com.amazonaws.licensemanager#GetLicenseUsage": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

"target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageRequest": {
        "type": "structure",
        "members": {
```

```
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageResponse": {
        "type": "structure",
        "members": {
            "LicenseUsage": {
                "target":
"com.amazonaws.licensemanager#LicenseUsage",
                "traits": {
                    "smithy.api#documentation": "<p>License usage details.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
```

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        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
discovery data,\n        and so on.</p>"

  }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>SNS topic configured to receive notifications from License
Manager.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether Organizations is integrated with License
Manager for\n        cross-account discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether cross-account discovery is enabled.</p>"
                }

        },
            "LicenseManagerResourceShareArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
```

Manager management account \n provides member accounts with access to this share. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#Grant": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"ParentArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Parent ARN. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. ",
"smithy.api#required": {}
}
},
"GranteePrincipalArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {

"smithy.api#documentation": " The grantee principal ARN. ",
"smithy.api#required": {}
}
},

```
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Home Region of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantStatus": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>",
                    "smithy.api#required": {}
                }
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status reason.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Granted operations.</p>",
                    "smithy.api#required": {}
                }
            },
            "Options": {
                "target": "com.amazonaws.licensemanager#Options",
                "traits": {
                    "smithy.api#documentation": "<p>The options specified for the grant.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
"<p>Describes a grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#GrantList": {
        "type": "list",
```

```
    "member": {
        "target": "com.amazonaws.licensemanager#Grant"
    }
},
"com.amazonaws.licensemanager#GrantStatus": {
    "type": "enum",
    "members": {
        "PENDING_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_WORKFLOW"
            }
        },
        "PENDING_ACCEPT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_ACCEPT"
            }
        },
        "REJECTED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "REJECTED"

        }
        },
        "ACTIVE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "ACTIVE"
            }
        },
        "FAILED_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        },
        "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
```

```
            }
          },
          "DISABLED": {
            "target": "smithy.api#Unit",
            "traits":
{
              "smithy.api#enumValue": "DISABLED"
            }
          },
          "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#GrantedLicense": {
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
          },
          "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License name.</p>"
            }

  },
          "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Product name.</p>"
            }
          },
          "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Product SKU.</p>"
            }
          },
          "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
```

"smithy.api#documentation": " Granted license issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the granted license. "

}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " Granted license status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the granted license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Granted license beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Granted license metadata. "
}
},
"CreateTime": {

"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Creation time of the granted license. "

}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Version of the granted license. "
}
},
"ReceivedMetadata": {
"target": "com.amazonaws.licensemanager#ReceivedMetadata",
"traits": {
"smithy.api#documentation": " Granted license received metadata. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a license that is granted to a grantee. "
}
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#GrantedLicense"
}
},
"com.amazonaws.licensemanager#ISO8601DateTime":
{
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
}
},
"com.amazonaws.licensemanager#Integer": {
"type": "integer"
},
"com.amazonaws.licensemanager#InvalidParameterValueException": {
"type": "structure",
"members": {
"Message": {

"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidParameterValueProvided",
"httpResponseCode": 400
},
"smithy.api#documentation":
" One or more parameter values are not valid. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#InvalidResourceStateException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidResourceState",
"httpResponseCode": 400
},
"smithy.api#documentation": " License Manager cannot allocate a license to a resource because of its state. \n For example, you cannot allocate a license to an instance in the process of shutting\n down. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},

"com.amazonaws.licensemanager#InventoryFilter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the filter. ",
"smithy.api#required": {}
}
},
"Condition": {
"target": "com.amazonaws.licensemanager#InventoryFilterCondition",
"traits": {
"smithy.api#documentation": " Condition of the filter. ",

```
                "smithy.api#required": {}
            }
        },
        "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Value of the filter.</p>"
            }
        }

},
    "traits": {
        "smithy.api#documentation": "<p>An inventory filter.</p>"
    }
  },
  "com.amazonaws.licensemanager#InventoryFilterCondition": {
    "type": "enum",
    "members": {
        "EQUALS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EQUALS"
            }
        },
        "NOT_EQUALS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "NOT_EQUALS"
            }
        },
        "BEGINS_WITH": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "BEGINS_WITH"
            }
        },
        "CONTAINS": {
            "target": "smithy.api#Unit",
            "traits": {
                 "smithy.api#enumValue": "CONTAINS"
            }
        }
    }
  },
  "com.amazonaws.licensemanager#InventoryFilterList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#InventoryFilter"
```

```
        }
    },
    "com.amazonaws.licensemanager#Issuer": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>",
                    "smithy.api#required": {}
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage
 of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about the issuer of a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#IssuerDetails": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>"
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
                }
            },
            "KeyFingerprint": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
                }
            }
```

```
    },
    "traits": {
        "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
    }
},
"com.amazonaws.licensemanager#License": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

       "smithy.api#documentation": "<p>License name.</p>"
            }
        },
        "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product name.</p>"
            }
        },
        "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product SKU.</p>"
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>License issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

        "smithy.api#documentation": "<p>Home Region of the license.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
```

"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"Entitlements": {

"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " License metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License creation time. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}

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        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
    "type": "structure",
    "members": {
        "LicenseConfigurationId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
            }
        },
        "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
        },
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the license configuration.</p>"
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
                "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
             }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules.</p>"
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
```

"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Number of available licenses as a hard limit. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the license configuration. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the license configuration's owner. "

}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for licenses consumed by various resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {

"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {

"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource consuming licenses. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " Time when the license configuration was associated with the resource. "
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an association with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
}
},
"com.amazonaws.licensemanager#LicenseConfigurationStatus": {
"type": "enum",
"members":
{
"AVAILABLE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "AVAILABLE"
}
},
"DISABLED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DISABLED"
}
}
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsage": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},

"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits":
{
"smithy.api#documentation": " Type of resource. "
}
},
"ResourceStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was initially associated with the resource. "
}
},

"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
}
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
"type": "list",
"member": {

"target": "com.amazonaws.licensemanager#LicenseConfiguration"
}
},
"com.amazonaws.licensemanager#LicenseConversionContext": {

"type": "structure",
"members": {
"UsageOperation": {
"target": "com.amazonaws.licensemanager#UsageOperation",
"traits": {
"smithy.api#documentation": " The Usage operation value that corresponds to the license type you are converting your resource from. For more information about which platforms correspond to which usage operation values see Sample data: usage operation by platform\n \n "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTask": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {

"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource associated with the license type\n conversion task. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted from. "
}
},
"DestinationLicenseContext": {
"target":

"com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted to. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " The status of the conversion task. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was started at. "
}
},
"LicenseConversionTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the usage operation value of the resource was changed. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was completed. "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTaskId": {
"type": "string",
"traits": {

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        "smithy.api#length": {
            "min": 0,
            "max": 50
        },
        "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
    }
  },
  "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
    "type": "enum",
    "members": {
      "IN_PROGRESS": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "IN_PROGRESS"
        }
      },
      "SUCCEEDED": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "SUCCEEDED"
        }
      },
      "FAILED": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "FAILED"
        }
      }
    }
  },
  "com.amazonaws.licensemanager#LicenseConversionTasks":
{
    "type": "list",
    "member": {
      "target": "com.amazonaws.licensemanager#LicenseConversionTask"
    }
  },
  "com.amazonaws.licensemanager#LicenseCountingType": {
    "type": "enum",
    "members": {
      "VCPU": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "vCPU"
        }
      },
      "INSTANCE": {
        "target": "smithy.api#Unit",
```

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            "traits": {
                "smithy.api#enumValue": "Instance"
            }
        },
        "CORE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Core"
            }
        },
        "SOCKET": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Socket"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {
    "type": "enum",
    "members": {
        "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {

    "type": "structure",
    "members": {
        "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Resource type. "
}
},
"ErrorMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Error message. "
}
},
"FailureTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " Failure time. "
}
},
"OperationName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the operation. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource. "
}
},
"OperationRequestedBy": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The requester is \"License Manager Automated Discovery\". "
}
},
"MetadataList": {

"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Reserved. "
}
}

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        },
        "traits": {
            "smithy.api#documentation": "<p>Describes the failure of a license operation.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseOperationFailureList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailure"
        }
    },
    "com.amazonaws.licensemanager#LicenseSpecification": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

                "smithy.api#required": {}
                }
            },
            "AmiAssociationScope": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details for associating a license configuration with a resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseSpecifications": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseSpecification"
        }
    },
    "com.amazonaws.licensemanager#LicenseStatus": {
        "type": "enum",
        "members": {
            "AVAILABLE": {
                "target": "smithy.api#Unit",
```

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        "traits": {
            "smithy.api#enumValue": "AVAILABLE"
        }
        },
        "PENDING_AVAILABLE": {
        "target": "smithy.api#Unit",
        "traits": {
            "smithy.api#enumValue": "PENDING_AVAILABLE"
        }
        },
        "DEACTIVATED": {
        "target": "smithy.api#Unit",
        "traits": {
            "smithy.api#enumValue": "DEACTIVATED"
        }
        },
        "SUSPENDED": {
        "target": "smithy.api#Unit",
        "traits": {
            "smithy.api#enumValue": "SUSPENDED"
        }
        },
        "EXPIRED": {
        "target": "smithy.api#Unit",
        "traits": {
            "smithy.api#enumValue": "EXPIRED"
        }
        },

      "PENDING_DELETE": {
        "target": "smithy.api#Unit",
        "traits": {
            "smithy.api#enumValue": "PENDING_DELETE"
        }
        },
        "DELETED": {
        "target": "smithy.api#Unit",
        "traits": {
            "smithy.api#enumValue": "DELETED"
        }
        }
    }
},
"com.amazonaws.licensemanager#LicenseUsage": {
    "type": "structure",
    "members": {
        "EntitlementUsages": {
            "target": "com.amazonaws.licensemanager#EntitlementUsageList",
```

"traits": {
"smithy.api#documentation": " License entitlement usages. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the entitlement usage associated with a license. "

}
},
"com.amazonaws.licensemanager#LicenseUsageException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "LicenseUsageFailure",
"httpResponseCode": 412
},
"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{

"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the resource associations for the
specified license configuration. \n Resource associations need not consume licenses from a license
configuration. \n For example, an AMI or a stopped instance might not consume a license (depending on \n
the license rules). "
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results
to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationAssociations": {

"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license configuration. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants distributed for the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
        "type": "structure",
        "members": {
            "GrantArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {

            "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>LicenseArn</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                <code>GrantStatus</code>\n                </p>\n            </li>\n
    <li>\n                <p>\n                <code>GranteePrincipalARN</code>\n                </p>\n            </li>\n
<li>\n                <p>\n                <code>ProductSKU</code>\n                </p>\n            </li>\n            <li>\n
<p>\n                <code>LicenseIssuerName</code>\n
        </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
        "type": "structure",
        "members": {
            "Grants": {
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"target": "com.amazonaws.licensemanager#GrantList",

"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configuration operations that failed. "
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {

"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name of the license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse": {
"type": "structure",
"members": {
"LicenseOperationFailureList": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
"traits": {
"smithy.api#documentation": " License configuration operations that failed. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurations": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
},

"output": {
"target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configurations
for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the license
configurations. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}

```
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next
 set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n                Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n                Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n                <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n                Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n
    </li>\n            <li>\n                <p>\n                <code>usagelimitExceeded</code> - A Boolean value that
indicates whether the available licenses have been exceeded. \n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurations": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurations",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",

          "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
```

```
    }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasks": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
    "type": "structure",
    "members": {
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {

"smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "Filters": {
```

"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " \n Filters to scope the results. Valid filters are <code>ResourceArns</code> and <code>Status</code>.\n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
"type": "structure",
"members": {
"LicenseConversionTasks": {
"target": "com.amazonaws.licensemanager#LicenseConversionTasks",
"traits": {
"smithy.api#documentation": " Information about the license configuration tasks for your account. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

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            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the report generators for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest":
{
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:
</p>\n        <ul>\n            <li>\n                <p>\n                    <code>LicenseConfigurationArn</code>\n
</p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits":
{
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
```

```
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
            "ReportGenerators": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorList",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }

        }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Describes the license configurations for the specified resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a resource that has an
associated license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {

        "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
        "type": "structure",
        "members": {
            "LicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
                }
            },
            "NextToken": {
```

```
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
```

```
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
        "type": "structure",
        "members": {
            "Licenses": {
                "target": "com.amazonaws.licensemanager#LicenseList",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            },

"NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenses": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicensesRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicensesResponse"
        },
        "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the licenses for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicensesRequest": {
        "type": "structure",
        "members": {
            "LicenseArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
                }
            },

    "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n    <ul>\n        <li>\n            <p>\n                <code>Beneficiary</code>\n            </p>\n
    </li>\n        <li>\n            <p>\n                <code>ProductSKU</code>\n            </p>\n        </li>\n
  <li>\n            <p>\n                <code>Fingerprint</code>\n            </p>\n        </li>\n        <li>\n
<p>\n                <code>Status</code>\n            </p>\n        </li>\n    </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token
```

for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#LicenseList",
"traits": {
"smithy.api#documentation": " License details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists grants that are received. Received grants are grants created while specifying the\n recipient as this Amazon Web Services account, your organization, or an organizational unit\n (OU) to which this member account belongs. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},

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            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants received for all accounts in the organization.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the received license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n
    <ul>\n        <li>\n            <p>\n                <code>ParentArn</code>\n            </p>\n        </li>\n
<li>\n            <p>\n                <code>GranteePrincipalArn</code>\n            </p>\n        </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
```

"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Lists the grants the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranterAccountId</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},

```
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
    "type": "structure",
    "members": {
        "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
             "traits": {
                "smithy.api#documentation": "<p>Received grant details.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
         },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists received licenses.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {

    "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
```

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses received for all accounts in the organization. "
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#GrantedLicenseList",
"traits": {
"smithy.api#documentation": " Lists the licenses the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>IssuerName</code>\n \n \n \n \n <code>Beneficiary</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
"type": "structure",

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    "members": {
      "Licenses": {
        "target": "com.amazonaws.licensemanager#GrantedLicenseList",
        "traits": {
          "smithy.api#documentation": "<p>Received license details.</p>"
        }
      },

      "NextToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#ListResourceInventory": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#FailedDependencyException"
      },
      {
        "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
```

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                 "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#InventoryFilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>account_id</code>
- The ID of the Amazon Web Services account that owns the resource.\n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n
            </li>\n            <li>\n                <p>\n                    <code>application_name</code> - The name of the
application. \n                Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n
    </li>\n            <li>\n                <p>\n                    <code>license_included</code> - The type of license included. \n
            Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n                Possible values
are <code>sql-server-enterprise</code> | \n                <code>sql-server-standard</code> | \n                <code>sql-
server-web</code> |  \n                <code>windows-server-datacenter</code>.</p>\n            </li>\n            <li>\n
    <p>\n                    <code>platform</code> - The platform of the resource.\n                Logical operators are
<code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n            </li>\n            <li>\n                <p>\n
        <code>resource_id</code> - The ID of the resource. \n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n
      <code>tag:<key></code> - The key/value combination of a tag assigned \n                to the resource. Logical
operators are <code>EQUALS</code> (single account) or\n                <code>EQUALS</code> |
<code>NOT_EQUALS</code> (cross account).</p>\n            </li>\n        </ul>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
```

```
    "com.amazonaws.licensemanager#ListResourceInventoryResponse": {
      "type": "structure",
      "members": {
        "ResourceInventoryList": {
          "target": "com.amazonaws.licensemanager#ResourceInventoryList",
          "traits": {
            "smithy.api#documentation": "<p>Information
about the resources.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#ListTagsForResource": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Lists the tags for the specified license configuration.</p>"
```

```
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the tags.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors":
[
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
            "TokenIds": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {

                  "smithy.api#documentation": "<p>Token IDs.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
    <ul>\n        <li>\n        <p>\n        <code>LicenseArns</code>\n        </p>\n        </li>\n
</ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation":
 "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
```

```
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokensResponse": {
        "type": "structure",
        "members": {
            "Tokens": {
                "target": "com.amazonaws.licensemanager#TokenList",
                "traits": {
                    "smithy.api#documentation": "<p>Received token details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying license\n        consumption details by resource at a selected point in time. Use this action to audit the\n        current license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>resourceArn</code> - The ARN of the license configuration resource.\n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>resourceAccount</code> - The ID of the account that owns the resource. \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
                }
            }
```

```
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
        "type": "structure",
        "members": {

"LicenseConfigurationUsageList": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Location": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#Long": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#ManagedResourceSummary": {
        "type": "structure",
        "members": {
            "ResourceType":
{
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
                }
            },
            "AssociationCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
                }
            }
```

```
    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {

"type": "integer",
    "traits": {
        "smithy.api#range": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The key name.</p>"
            }
        },

"Value": {
            "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " The value. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes key/value pairs. "
}
},
"com.amazonaws.licensemanager#MetadataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Metadata"
}
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#Options": {
"type": "structure",
"members": {
"ActivationOverrideBehavior": {
"target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
"traits": {
"smithy.api#documentation": " An activation option for your grant that determines the behavior of activating a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter. \n \n \n As a license administrator, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant. \n \n \n As a grantor, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your organization. \n \n \n As a grantee, if the grantor creating the distributed grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n are activating the grant. \n \n \n <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n Use this value to activate a grant without replacing any member accounts\n active grants for the same product. \n </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n Use this value to activate a

grant and disable other active grants in any\n member accounts
for the same product. This action will also replace their\n previously activated grants with this activated grant. \n </dd>\n </dl>"
}
}
},
"traits": {
"smithy.api#documentation": " The options you can specify when you create a new version of a grant, such as activation\n override behavior. For more information, see Granted licenses in License Manager in the License Manager User Guide. "
}
},
"com.amazonaws.licensemanager#OrganizationConfiguration": {
"type": "structure",
"members": {
"EnableIntegration": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#default": false,
"smithy.api#documentation": " Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n <code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n \n ",
"smithy.api#required": {}
}
}
},

```
    "traits": {
        "smithy.api#documentation": "<p>Describes product information for a license configuration.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
    "type": "structure",
    "members": {
        "ProductInformationFilterName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Filter name.</p>",
                "smithy.api#required": {}
            }
        },
        "ProductInformationFilterValue": {
            "target": "com.amazonaws.licensemanager#StringList",

      "traits": {
                "smithy.api#documentation": "<p>Filter value.</p>"
            }
        },
        "ProductInformationFilterComparator": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Logical operator.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes product information filters.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformationFilter"
    }
},
"com.amazonaws.licensemanager#ProductInformationList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformation"
     }
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
    "type": "structure",
    "members": {
```

"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the provisional configuration, in minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"com.amazonaws.licensemanager#RateLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "RateLimitExceeded",
"httpResponseCode": 429
},
"smithy.api#documentation": " Too many requests have been submitted. Try again after a brief wait. ",
"smithy.api#error": "client",
"smithy.api#httpError": 429
}
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
"type": "structure",
"members": {
"ReceivedStatus": {
"target": "com.amazonaws.licensemanager#ReceivedStatus",
"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Received status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",

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                "traits": {
                    "smithy.api#documentation": "<p>Allowed operations.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Metadata associated with received licenses and grants.</p>"
        }
    },
    "com.amazonaws.licensemanager#ReceivedStatus": {
        "type": "enum",
        "members": {
            "PENDING_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_WORKFLOW"
                }
            },
            "PENDING_ACCEPT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue":
"PENDING_ACCEPT"
                }
            },
            "REJECTED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "REJECTED"
                }
            },
            "ACTIVE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "ACTIVE"
                }
            },
            "FAILED_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "FAILED_WORKFLOW"
                }
            },
            "DELETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DELETED"
                }
```

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        },
        "DISABLED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DISABLED"
            }
        },
        "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#RedirectException": {
    "type": "structure",
    "members": {
        "Location": {
            "target": "com.amazonaws.licensemanager#Location",
            "traits": {
                "smithy.api#httpHeader": "Location"
            }
        },
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 308
    }
},
"com.amazonaws.licensemanager#RejectGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#RejectGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#RejectGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}

  }
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
```

"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#RenewType":
{
"type": "enum",
"members": {
"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"WEEKLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Weekly"
}
},
"MONTHLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Monthly"
}
}
}
},
"com.amazonaws.licensemanager#ReportContext": {
"type": "structure",
"members": {
"licenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details of the license configuration that this generator reports on. "
}
},
"com.amazonaws.licensemanager#ReportFrequency": {
"type": "structure",
"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "
}
},
"period": {
"target": "com.amazonaws.licensemanager#ReportFrequencyType",

"traits": {
"smithy.api#documentation": " Time period between each report. The period can be daily, weekly, or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"com.amazonaws.licensemanager#ReportFrequencyType": {
"type": "enum",
"members": {
"DAY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DAY"
}
},
"WEEK": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "WEEK"
}
},

"MONTH": {
"target": "smithy.api#Unit",
"traits":
{
"smithy.api#enumValue": "MONTH"
}
}
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the report generator. "
}
},
"ReportType": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports that are generated. "
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " License
configuration type for this generator. "
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. "
}
},
"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}

},
"LastRunFailureReason":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Failure message for the last report generation attempt. "
}
},
"LastReportGenerationTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the last report was generated at. "
}
},
"ReportCreatorAccount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Web Services account ID used to create the report generator. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the report was created. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags associated with the report generator. "
}

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}
    },
    "traits": {
        "smithy.api#documentation": "<p>Describe the details of a report generator.</p>"
    }
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportGenerator"
    }
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#ReportType": {
    "type": "enum",
    "members": {
        "LICENSE_CONFIGURATION_SUMMARY_REPORT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "LicenseConfigurationSummaryReport"
            }

},
        "LICENSE_CONFIGURATION_USAGE_REPORT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "LicenseConfigurationUsageReport"
            }
        }
    }
},
"com.amazonaws.licensemanager#ReportTypeList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportType"
    }
},
"com.amazonaws.licensemanager#ResourceInventory": {
    "type": "structure",
    "members": {
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            "ResourceId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits":
{
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "Platform": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform of the resource.</p>"
                }
            },
            "PlatformVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
                }
            },
            "ResourceOwningAccountId":
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ResourceInventoryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ResourceInventory"
        }
```

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},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "ResourceLimitExceeded",

         "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>Your resource limits have been exceeded.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "InvalidResource.NotFound",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The resource cannot be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceType": {
    "type": "enum",
     "members": {
        "EC2_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_INSTANCE"
            }
        },
        "EC2_HOST": {
            "target": "smithy.api#Unit",
            "traits": {
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"smithy.api#enumValue": "EC2_HOST"
}
},
"EC2_AMI": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "EC2_AMI"
}
},
"RDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "RDS"
}
},
"SYSTEMS_MANAGER_MANAGED_INSTANCE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
}
}
}
},
"com.amazonaws.licensemanager#S3Location": {
"type": "structure",
"members": {
"bucket": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the S3 bucket reports are published to. "
}
},
"keyPrefix": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Prefix of the S3 bucket reports are published to. "
}
}
},
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
"type": "structure",
"members": {
"Message": {

"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InternalError",
"httpResponseCode": 500
},
"smithy.api#documentation": " The server experienced an internal error. Try again. ",
"smithy.api#error": "server",
"smithy.api#httpError": 500
}
},
"com.amazonaws.licensemanager#SignedToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 4096
}
}
},
"com.amazonaws.licensemanager#StatusReasonMessage": {
"type": "string",
"traits":
{
"smithy.api#length": {
"min": 0,
"max": 400
},
"smithy.api#pattern": "^[\\s\\S]+$"
}
},
"com.amazonaws.licensemanager#String": {
"type": "string"
},
"com.amazonaws.licensemanager#StringList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#String"
}
},
"com.amazonaws.licensemanager#Tag": {
"type": "structure",
"members": {
"Key": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Tag key. "

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            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation":
"<p>Tag value.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#String"
        }
      },
      "com.amazonaws.licensemanager#TagList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#Tag"
        }
      },
      "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
          {
            "target":
"com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
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            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits":
 {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>One or more tags.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
```

"TokenType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Type of token generated. The supported value is <code>REFRESH_TOKEN</code>. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"ExpirationTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Token expiration time, in ISO8601-UTC format. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller. "
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the roles included in the token. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. "
}
}
},
"traits": {

"smithy.api#documentation": " Describes a token. "
}
},
"com.amazonaws.licensemanager#TokenList": {
"type": "list",

"member": {
"target": "com.amazonaws.licensemanager#TokenData"
}
},
"com.amazonaws.licensemanager#TokenString": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 4096
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#TokenType": {
"type": "enum",
"members": {
"REFRESH_TOKEN": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REFRESH_TOKEN"
}
}
}
},
"com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException":
{
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The digital signature method is unsupported. Try your request
again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#UntagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UntagResourceResponse"
},

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        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Removes the specified tags from the specified license
configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#UntagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "TagKeys": {
                "target": "com.amazonaws.licensemanager#TagKeyList",
                "traits": {
                    "smithy.api#documentation": "<p>Keys identifying the tags to remove.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#UntagResourceResponse": {
        "type": "structure",
        "members": {},
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"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Modifies the attributes of an existing license configuration. "
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},

"LicenseConfigurationStatus": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
"traits": {
"smithy.api#documentation": " New status of the license configuration. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " New license rule. The only rule that you can add after you create a license\n configuration is licenseAffinityToHost. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " New number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",

"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
},
"traits":
{
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},

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            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates a report generator.</p>\n        <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to update.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportGeneratorName": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>",
                    "smithy.api#required": {}
                }
            },
            "Type": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports to generate. The following report types are supported:</p>\n        <ul>\n            <li>\n                <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p>\n            </li>\n            <li>\n                <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n            </li>\n        </ul>",
                    "smithy.api#required": {}
                }
            },
            "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
                    "smithy.api#documentation": "<p>The report context.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportFrequency": {
                "target": "com.amazonaws.licensemanager#ReportFrequency",
```

"traits":
{
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },

            {
                "target": "com.amazonaws.licensemanager#InvalidResourceStateException"
            },
            {
                "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p>\n        <p>You can update the license specifications of AMIs, instances, and
hosts.\n        You cannot update the license specifications for launch templates and CloudFormation templates, \n
  as they send license configurations to the operation that creates the resource.</p>"
        }
    },

    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "AddLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
                }
            },
            "RemoveLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation":
 "<p>ARNs of the license configurations to remove.</p>"
                }
```

```
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {},
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
    }
},
"com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
    "type": "structure",
    "members": {
        "S3BucketArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon S3 bucket where the License
Manager information is stored. "
}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Enables integration with Organizations for cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Activates cross-account discovery. "

}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UsageOperation": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
}
}
},
"com.amazonaws.licensemanager#ValidationException": {

```
            "type": "structure",
            "members": {
                "Message": {
                    "target": "com.amazonaws.licensemanager#Message"
                }
            },
            "traits": {
                "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",

        "smithy.api#error": "client",
                "smithy.api#httpError": 400
            }
        }
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {
```

```
 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version
 of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack,
 options); err != nil {
  return err
```

```
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if
 err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
```

```
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
```

1.3925 analysis 0.23.0

1.3925.1 Available under license :

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1.3926 aws-sdk-go-v2 1.55.5

1.3926.1 Available under license :


```
{
 "version": "2.0",
 "service": "<p>With License Manager, you can create user-based subscriptions to utilize licensed software with a per user subscription fee on Amazon EC2 instances.</p>",
 "operations": {
   "AssociateUser": "<p>Associates the user to an EC2 instance to utilize user-based subscriptions.</p> <note> <p>Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing. For more information, see <a href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p> </note>",
   "DeregisterIdentityProvider": "<p>Deregisters the identity provider from providing user-based subscriptions.</p>",
   "DisassociateUser": "<p>Disassociates the user from an EC2 instance providing user-based subscriptions.</p>",
   "ListIdentityProviders":
 "<p>Lists the identity providers for user-based subscriptions.</p>",
   "ListInstances": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
   "ListProductSubscriptions": "<p>Lists the user-based subscription products available from an identity provider.</p>",
   "ListUserAssociations": "<p>Lists user associations for an identity provider.</p>",
   "RegisterIdentityProvider": "<p>Registers an identity provider for user-based subscriptions.</p>",
   "StartProductSubscription": "<p>Starts a product subscription for a user with the specified identity provider.</p> <note> <p>Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing. For more information, see <a href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your monthly charges</a> in the <i>Amazon Web
 Services Billing User Guide</i>.</p> </note>",
   "StopProductSubscription": "<p>Stops a product subscription for a user with the specified identity provider.</p>",
   "UpdateIdentityProviderSettings": "<p>Updates additional product configuration settings for the registered identity provider.</p>"
 },
 "shapes": {
   "AccessDeniedException": {
     "base": "<p>You don't have sufficient access to perform this action.</p>",
     "refs": {
     }
   },
   "ActiveDirectoryIdentityProvider": {
     "base": "<p>Details about an Active Directory identity provider.</p>",
     "refs": {
       "IdentityProvider$ActiveDirectoryIdentityProvider": "<p>An object that details an Active Directory identity provider.</p>"
     }
   },
```

"AssociateUserRequest": {
"base": null,
"refs": {
}
},
"AssociateUserResponse": {
"base": null,
"refs": {
}
},
"BoxInteger": {
"base": null,
"refs": {
"ListIdentityProvidersRequest$MaxResults":
" Maximum number of results to return in a single call. ",
"ListInstancesRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListProductSubscriptionsRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListUserAssociationsRequest$MaxResults": " Maximum number of results to return in a single call. "
}
},
"ConflictException": {
"base": " The request couldn't be completed because it conflicted with the current state of the resource. ",
"refs": {
}
},
"DeregisterIdentityProviderRequest": {
"base": null,
"refs": {
}
},
"DeregisterIdentityProviderResponse": {
"base": null,
"refs": {
}
},
"DisassociateUserRequest": {
"base": null,
"refs": {
}
},
"DisassociateUserResponse": {
"base": null,
"refs": {
}
},
"Filter": {
"base": " A

filter name and value pair that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs. ",
    "refs": {
      "FilterList$member": null
    }
  },
  "FilterList": {
    "base": null,
    "refs": {
      "ListInstancesRequest$Filters": " An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify. ",
      "ListProductSubscriptionsRequest$Filters": " An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify. ",
      "ListUserAssociationsRequest$Filters": " An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify. "
    }
  },
  "IdentityProvider": {
    "base": " Details about an identity provider. ",
    "refs": {
      "AssociateUserRequest$IdentityProvider": " The identity provider of the user. ",
      "DeregisterIdentityProviderRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
      "DisassociateUserRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
      "IdentityProviderSummary$IdentityProvider": " An object that specifies details for the identity provider. ",
      "InstanceUserSummary$IdentityProvider": " An object that specifies details for the identity provider. ",
      "ListProductSubscriptionsRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
      "ListUserAssociationsRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
      "ProductUserSummary$IdentityProvider": " An object that specifies details for the identity provider. ",
      "RegisterIdentityProviderRequest$IdentityProvider":
 " An object that specifies details for the identity provider. ",
      "StartProductSubscriptionRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
      "StopProductSubscriptionRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
      "UpdateIdentityProviderSettingsRequest$IdentityProvider": null
    }
  },
  "IdentityProviderSummary": {
    "base": " Describes an identity provider. ",
    "refs": {
      "DeregisterIdentityProviderResponse$IdentityProviderSummary": " Metadata that describes the results of an identity provider operation. ",
      "IdentityProviderSummaryList$member": null,

"RegisterIdentityProviderResponse$IdentityProviderSummary": " Metadata that describes the results of an identity provider operation. ",
"UpdateIdentityProviderSettingsResponse$IdentityProviderSummary": null

}
},
"IdentityProviderSummaryList": {
"base": null,
"refs": {
"ListIdentityProvidersResponse$IdentityProviderSummaries": " Metadata that describes the list identity providers operation. "
}
},
"InstanceSummary": {
"base": " Describes an EC2 instance providing user-based subscriptions. ",
"refs": {
"InstanceSummaryList$member": null
}
},
"InstanceSummaryList": {
"base": null,
"refs": {
"ListInstancesResponse$InstanceSummaries": " Metadata that describes the list instances operation. "
}
},
"InstanceUserSummary": {
"base": " Describes users of an EC2 instance providing user-based subscriptions. ",
"refs": {
"AssociateUserResponse$InstanceUserSummary": " Metadata that describes the associate user operation. ",
"DisassociateUserResponse$InstanceUserSummary": " Metadata that describes the associate user operation. ",

"InstanceUserSummaryList$member": null
}
},
"InstanceUserSummaryList": {
"base": null,
"refs": {
"ListUserAssociationsResponse$InstanceUserSummaries": " Metadata that describes the list user association operation. "
}
},
"InternalServerException": {
"base": " An exception occurred with the service. ",
"refs": {
}
},

"ListIdentityProvidersRequest": {
"base": null,
"refs": {
}
},
"ListIdentityProvidersResponse": {
"base": null,
"refs": {
}
},
"ListInstancesRequest": {
"base": null,
"refs": {
}
},
"ListInstancesResponse": {
"base": null,
"refs": {
}
},
"ListProductSubscriptionsRequest": {
"base": null,
"refs": {
}
},
"ListProductSubscriptionsResponse": {
"base": null,
"refs": {
}
},
"ListUserAssociationsRequest": {
"base": null,
"refs": {
}
},
"ListUserAssociationsResponse": {
"base": null,
"refs": {
}
},
"ProductUserSummary": {
"base": " The summary of the user-based subscription products for a user. ",
"refs": {
"ProductUserSummaryList$member": null,
"StartProductSubscriptionResponse$ProductUserSummary": " Metadata that describes the start product subscription operation. ",
"StopProductSubscriptionResponse$ProductUserSummary": " Metadata that describes the start product subscription operation. "

}
},
"ProductUserSummaryList": {
"base": null,
"refs": {
"ListProductSubscriptionsResponse$ProductUserSummaries": " Metadata that describes the list product subscriptions operation. "
}
},
"RegisterIdentityProviderRequest": {
"base": null,
"refs": {
}
},
"RegisterIdentityProviderResponse": {
"base": null,
"refs": {
}
},
"ResourceNotFoundException":
{
"base": " The resource couldn't be found. ",
"refs": {
}
},
"SecurityGroup": {
"base": null,
"refs": {
"Settings$SecurityGroupId": " A security group ID that allows inbound TCP port 1688 communication between resources in your VPC and the VPC endpoint for activation servers. ",
"UpdateSettings$SecurityGroupId": " A security group ID that allows inbound TCP port 1688 communication between resources in your VPC and the VPC endpoints for activation servers. "
}
},
"ServiceQuotaExceededException": {
"base": " The request failed because a service quota is exceeded. ",
"refs": {
}
},
"Settings": {
"base": " The registered identity providers product related configuration settings such as the subnets to provision VPC endpoints, and the security group ID that is associated with the VPC endpoints. The security group should permit inbound TCP port 1688 communication
from resources in the VPC. ",
"refs": {
"IdentityProviderSummary$Settings": " An object that details the registered identity providers product related configuration settings such as the subnets to provision VPC endpoints. ",
"RegisterIdentityProviderRequest$Settings": " The registered identity providers product related

configuration settings such as the subnets to provision VPC endpoints. "
    }
  },
  "SettingsSubnetsList": {
    "base": null,
    "refs": {
      "Settings$Subnets": " The subnets defined for the registered identity provider. "
    }
  },
  "StartProductSubscriptionRequest": {
    "base": null,
    "refs": {
    }
  },
  "StartProductSubscriptionResponse": {
    "base": null,
    "refs": {
    }
  },
  "StopProductSubscriptionRequest": {
    "base": null,
    "refs": {
    }
  },
  "StopProductSubscriptionResponse": {
    "base": null,
    "refs": {
    }
  },
  "String":
 {
    "base": null,
    "refs": {
      "AccessDeniedException$message": null,
      "ActiveDirectoryIdentityProvider$DirectoryId": " The directory ID for an Active Directory identity provider. ",
      "AssociateUserRequest$Domain": " The domain name of the user. ",
      "AssociateUserRequest$InstanceId": " The ID of the EC2 instance, which provides user-based subscriptions. ",
      "AssociateUserRequest$Username": " The user name from the identity provider for the user. ",
      "ConflictException$message": null,
      "DeregisterIdentityProviderRequest$Product": " The name of the user-based subscription product. ",
      "DisassociateUserRequest$Domain": " The domain name of the user. ",
      "DisassociateUserRequest$InstanceId": " The ID of the EC2 instance, which provides user-based subscriptions. ",
      "DisassociateUserRequest$Username": " The user name from the identity provider for the user. ",

"Filter$Attribute": " The name of an attribute to use as a filter. ",
"Filter$Operation": " The type of search (For example, eq, geq, leq) ",
"Filter$Value": " Value of the filter. ",
"IdentityProviderSummary$FailureMessage": " The failure message associated with an identity provider. ",
"IdentityProviderSummary$Product": " The name of the user-based subscription product. ",
"IdentityProviderSummary$Status": " The status of an identity provider. ",
"InstanceSummary$InstanceId": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"InstanceSummary$LastStatusCheckDate": " The date of the last status check. ",
"InstanceSummary$Status": " The status of an EC2 instance resource. ",
"InstanceSummary$StatusMessage": " The status message for an EC2 instance. ",
"InstanceUserSummary$AssociationDate": " The date a user was associated with an EC2 instance. ",
"InstanceUserSummary$DisassociationDate": " The date a user was disassociated from an EC2 instance. ",
"InstanceUserSummary$Domain": " The domain name of the user. ",
"InstanceUserSummary$InstanceId": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"InstanceUserSummary$Status": " The status of a user associated with an EC2 instance. ",
"InstanceUserSummary$StatusMessage": " The status message for users of an EC2 instance. ",
"InstanceUserSummary$Username": " The user name from the identity provider for the user. ",
"InternalServerException$message": null,
"ListIdentityProvidersRequest$NextToken": " Token for the next set of results. ",
"ListIdentityProvidersResponse$NextToken": " Token for the next set of results. ",
"ListInstancesRequest$NextToken": " Token for the next set of results. ",
"ListInstancesResponse$NextToken": " Token for the next set of results. ",
"ListProductSubscriptionsRequest$NextToken": " Token for the next set of results. ",
"ListProductSubscriptionsRequest$Product": " The name of the user-based subscription product. ",
"ListProductSubscriptionsResponse$NextToken": " Token for the next set of results. ",
"ListUserAssociationsRequest$InstanceId": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"ListUserAssociationsRequest$NextToken": " Token for the next set of results. ",
"ListUserAssociationsResponse$NextToken": " Token for the next set of results. ",
"ProductUserSummary$Domain": " The domain name of the user. ",
"ProductUserSummary$Product": " The name of the user-based subscription product. ",
"ProductUserSummary$Status": " The status of a product for a user. ",
"ProductUserSummary$StatusMessage": " The status message for a product for a user. ",
"ProductUserSummary$SubscriptionEndDate": " The end date of a subscription. ",
"ProductUserSummary$SubscriptionStartDate": " The start date of a subscription. ",
"ProductUserSummary$Username": " The user name from the identity provider of the user. ",
"RegisterIdentityProviderRequest$Product": " The name of the user-based subscription product. ",
"ResourceNotFoundException$message": null,
"ServiceQuotaExceededException$message": null,
"StartProductSubscriptionRequest$Domain": " The domain name of the user. ",
"StartProductSubscriptionRequest$Product": " The name of the user-based subscription product. ",

"StartProductSubscriptionRequest$Username": " The user name from the identity provider of the user. ",
"StopProductSubscriptionRequest$Domain": " The domain name of the user. ",
"StopProductSubscriptionRequest$Product": " The name of the user-based subscription product. ",
"StopProductSubscriptionRequest$Username": " The user name from the identity provider for the user. ",
"StringList$member": null,
"ThrottlingException$message": null,
"UpdateIdentityProviderSettingsRequest$Product": " The name of the user-based subscription product. ",
"ValidationException$message": null
}
},
"StringList": {
"base": null,
"refs": {
"InstanceSummary$Products": " A list of provided user-based subscription products. "
}
},
"Subnet": {
"base": null,
"refs": {
"SettingsSubnetsList$member": null,
"Subnets$member": null
}
},
"Subnets": {
"base": null,
"refs": {
"UpdateSettings$AddSubnets": " The ID of one or more subnets in which License Manager will create a VPC endpoint for products that require connectivity to activation servers. ",
"UpdateSettings$RemoveSubnets": " The ID of one or more subnets to remove. "
}
},
"ThrottlingException": {
"base": " The request was denied because of request throttling. Retry the request. ",
"refs": {
}
},
"UpdateIdentityProviderSettingsRequest": {
"base": null,
"refs": {
}
},
"UpdateIdentityProviderSettingsResponse": {
"base": null,
"refs": {

```
    }
  },
  "UpdateSettings": {
    "base": "<p>Updates the registered identity providers product related configuration settings such as the subnets to provision VPC endpoints.</p>",
    "refs": {
      "UpdateIdentityProviderSettingsRequest$UpdateSettings": "<p>Updates the registered identity providers product related configuration settings. You can update any combination of settings in a single operation such as the:</p> <ul> <li> <p>Subnets which you want to add to provision VPC endpoints.</p> </li> <li> <p>Subnets which you want to remove the VPC endpoints
 from.</p> </li> <li> <p>Security group ID which permits traffic to the VPC endpoints.</p> </li> </ul>"
    }
  },
  "ValidationException": {
    "base": "<p>A parameter is not valid.</p>",
    "refs": {
    }
  }
 }
}
{
  "version": "1.0",
  "parameters": {
    "Region": {
      "builtIn": "AWS::Region",
      "required": false,
      "documentation": "The AWS region used to dispatch the request.",
      "type": "String"
    },
    "UseDualStack": {
      "builtIn": "AWS::UseDualStack",
      "required": true,
      "default": false,
      "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
      "type": "Boolean"
    },
    "UseFIPS": {
      "builtIn": "AWS::UseFIPS",
      "required": true,
      "default": false,
      "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
      "type": "Boolean"
    },
    "Endpoint": {
```

```
  "builtIn": "SDK::Endpoint",
      "required": false,
      "documentation": "Override the endpoint used to send this request",
      "type": "String"
    }
  },
  "rules": [
    {
      "conditions": [
        {
          "fn": "aws.partition",
          "argv": [
            {
              "ref": "Region"
            }
          ],
          "assign": "PartitionResult"
        }
      ],
      "type": "tree",
      "rules": [
        {
          "conditions": [
            {
              "fn": "isSet",
              "argv": [
                {
                  "ref": "Endpoint"
                }
              ]
            },
            {
              "fn": "parseURL",

             "argv": [
                {
                  "ref": "Endpoint"
                }
              ],
              "assign": "url"
            }
          ],
          "type": "tree",
          "rules": [
            {
              "conditions": [
                {
                  "fn": "booleanEquals",
```

```
                "argv": [
                  {
                    "ref": "UseFIPS"
                  },
                  true
                ]
              }
            ],
            "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
            "type": "error"
          },
          {
            "conditions": [],
            "type": "tree",
            "rules": [
              {
                "conditions": [
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseDualStack"
                      },
                      true
                    ]
                  }
                ],
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                "type": "error"
              },

          {
                "conditions": [],
                "endpoint": {
                  "url": {
                    "ref": "Endpoint"
                  },
                  "properties": {},
                  "headers": {}
                },
                "type": "endpoint"
              }
            ]
          }
        ]
      },
      {
        "conditions": [
```

```
                {
                    "fn": "booleanEquals",
                    "argv": [
                        {
                            "ref": "UseFIPS"
                        },
                        true
                    ]

        },
                {
                    "fn": "booleanEquals",
                    "argv": [
                        {
                            "ref": "UseDualStack"
                        },
                        true
                    ]
                }
            ],
            "type": "tree",
            "rules": [
                {
                    "conditions": [
                        {
                            "fn": "booleanEquals",
                            "argv": [
                                true,
                                {
                                    "fn": "getAttr",
                                    "argv": [
                                        {
                                            "ref": "PartitionResult"

            },
                                        "supportsFIPS"
                                    ]
                                }
                            ]
                        },
                        {
                            "fn": "booleanEquals",
                            "argv": [
                                true,
                                {
                                    "fn": "getAttr",
                                    "argv": [
                                        {
```

```
                "ref": "PartitionResult"
            },
            "supportsDualStack"
        ]
      }
    ]
  }

],
  "type": "tree",
  "rules": [
    {
      "conditions": [],
      "endpoint": {
        "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
        "properties": {},
        "headers": {}
      },
      "type": "endpoint"
    }
  ]
},
{
  "conditions": [],
  "error": "FIPS and DualStack are enabled, but this partition does not support one or both",
  "type": "error"
}
]
},

{
  "conditions": [
    {
      "fn": "booleanEquals",
      "argv": [
        {
          "ref": "UseFIPS"
        },
        true
      ]
    }
  ],
  "type": "tree",
  "rules": [
    {
      "conditions": [
        {
```

```
                "fn": "booleanEquals",
                "argv": [
                  true,
                  {
                    "fn": "getAttr",
                    "argv": [
                      {
                        "ref": "PartitionResult"
                      },
                      "supportsFIPS"
                    ]
                  }
                ]
              }
            ],
            "type": "tree",
            "rules": [
              {
                "conditions": [],
                "endpoint": {
                  "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                  "properties": {},
                  "headers": {}
                },
                "type": "endpoint"
              }
            ]
          },
          {

        "conditions": [],
            "error": "FIPS is enabled but this partition does not support FIPS",
            "type": "error"
          }
        ]
        },
        {
          "conditions": [
            {
              "fn": "booleanEquals",
              "argv": [
                {
                  "ref": "UseDualStack"
                },
                true
              ]
            }
```

```
            ],
            "type": "tree",
            "rules": [
              {
                "conditions": [
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      true,

        {
                      "fn": "getAttr",
                      "argv": [
                        {
                          "ref": "PartitionResult"
                        },
                        "supportsDualStack"
                      ]
                    }
                  ]
                }
              ],
              "type": "tree",
              "rules": [
                {
                  "conditions": [],
                  "endpoint": {
                    "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                    "properties": {},

              "headers": {}
                  },
                  "type": "endpoint"
                }
              ]
            },
            {
              "conditions": [],
              "error": "DualStack is enabled but this partition does not support DualStack",
              "type": "error"
            }
          ]
        },
        {
          "conditions": [],
          "endpoint": {
            "url": "https://license-manager-user-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
```

"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
}
]
}
{
"version": "2.0",
"service": " With License Manager, you can discover and track your commercial Linux subscriptions on running Amazon EC2 instances. ",
"operations": {
"DeregisterSubscriptionProvider": " Remove a third-party subscription provider from the Bring Your Own License (BYOL) subscriptions registered to your account. ",
"GetRegisteredSubscriptionProvider": " Get details for a Bring Your Own License (BYOL) subscription that's registered to your account. ",
"GetServiceSettings": " Lists the Linux subscriptions service settings for your account. ",
"ListLinuxSubscriptionInstances": " Lists the running Amazon EC2 instances that were discovered with commercial Linux subscriptions. ",
"ListLinuxSubscriptions": " Lists the Linux subscriptions that have been discovered. If you have linked your organization, the returned results will include data aggregated across your accounts in Organizations. ",
"ListRegisteredSubscriptionProviders":
" List Bring Your Own License (BYOL) subscription registration resources for your account. ",
"ListTagsForResource": " List the metadata tags that are assigned to the specified Amazon Web Services resource. ",
"RegisterSubscriptionProvider": " Register the supported third-party subscription provider for your Bring Your Own License (BYOL) subscription. ",
"TagResource": " Add metadata tags to the specified Amazon Web Services resource. ",
"UntagResource": " Remove one or more metadata tag from the specified Amazon Web Services resource. ",
"UpdateServiceSettings": " Updates the service settings for Linux subscriptions. "
},
"shapes": {
"Boolean": {
"base": null,
"refs": {
"UpdateServiceSettingsRequest$AllowUpdate": " Describes if updates are allowed to the service settings for Linux subscriptions. If you allow updates, you can aggregate Linux subscription data in more than one home Region. "
}
},
"BoxInteger": {
"base": null,
"refs": {
"ListLinuxSubscriptionInstancesRequest$MaxResults": " The maximum items to return in a request. ",
"ListLinuxSubscriptionsRequest$MaxResults": " The maximum items to return in a request. "

```
    }
  },
  "BoxLong": {
    "base": null,
    "refs": {
      "Subscription$InstanceCount": "<p>The total amount of running instances using this subscription.</p>"
    }
  },
  "DeregisterSubscriptionProviderRequest": {
    "base": null,
    "refs": {
    }
  },
  "DeregisterSubscriptionProviderResponse": {
    "base": null,
    "refs": {
    }
  },
  "Filter": {
    "base": "<p>A filter object that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria.</p>",
    "refs": {
      "FilterList$member": null
    }
  },
  "FilterList": {
    "base": null,
    "refs": {

  "ListLinuxSubscriptionInstancesRequest$Filters": "<p>An array of structures that you can use to filter the results by your specified criteria. For example, you can specify <code>Region</code> in the <code>Name</code>, with the <code>contains</code> operator to list all subscriptions that match a partial string in the <code>Value</code>, such as <code>us-west</code>.</p> <p>For each filter, you can specify one of the following values for the <code>Name</code> key to streamline results:</p> <ul> <li> <p> <code>AccountID</code> </p> </li> <li> <p> <code>AmiID</code> </p> </li> <li> <p> <code>DualSubscription</code> </p> </li> <li> <p> <code>InstanceID</code> </p> </li> <li> <p> <code>InstanceType</code> </p> </li> <li> <p> <code>ProductCode</code> </p> </li> <li> <p> <code>Region</code> </p> </li> <li> <p> <code>Status</code> </p> </li> <li> <p> <code>UsageOperation</code> </p> </li> </ul> <p>For each filter, you can use one of the following <code>Operator</code> values to define the behavior
 of the filter:</p> <ul> <li> <p> <code>contains</code> </p> </li> <li> <p> <code>equals</code> </p> </li> <li> <p> <code>Notequal</code> </p> </li> </ul>",
      "ListLinuxSubscriptionsRequest$Filters": "<p>An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify. For example, you can filter by the name of <code>Subscription</code> with an optional operator to see subscriptions that match, partially match, or don't match a certain subscription's name.</p> <p>The valid names for this filter are:</p> <ul> <li> <p> <code>Subscription</code> </p> </li> </ul> <p>The valid Operators for this filter are:</p> <ul> <li> <p> <code>contains</code> </p> </li> <li> <p> <code>equals</code> </p> </li> <li> <p> <code>Notequal</code> </p> </li> </ul>"
```

```
    }
  },
  "GetRegisteredSubscriptionProviderRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetRegisteredSubscriptionProviderResponse": {
     "base": null,
    "refs": {
    }
  },
  "GetServiceSettingsRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetServiceSettingsResponse": {
    "base": null,
    "refs": {
    }
  },
  "Instance": {
    "base": "<p>Details discovered information about a running instance using Linux subscriptions.</p>",
    "refs": {
      "InstanceList$member": null
    }
  },
  "InstanceList": {
    "base": null,
    "refs": {
      "ListLinuxSubscriptionInstancesResponse$Instances": "<p>An array that contains instance objects.</p>"
    }
  },
  "InternalServerException": {
    "base": "<p>An exception occurred with the service.</p>",
    "refs": {
    }
  },
  "LinuxSubscriptionsDiscovery": {
    "base": null,
    "refs": {
      "GetServiceSettingsResponse$LinuxSubscriptionsDiscovery": "<p>Lists if discovery has been enabled for
Linux subscriptions.</p>",
      "UpdateServiceSettingsRequest$LinuxSubscriptionsDiscovery":
 "<p>Describes if the discovery of Linux subscriptions is enabled.</p>",
      "UpdateServiceSettingsResponse$LinuxSubscriptionsDiscovery": "<p>Lists if discovery has been enabled for
Linux subscriptions.</p>"
```

}
},
"LinuxSubscriptionsDiscoverySettings": {
"base": " Lists the settings defined for discovering Linux subscriptions. ",
"refs": {
"GetServiceSettingsResponse$LinuxSubscriptionsDiscoverySettings": " Lists the settings defined for Linux subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data will be aggregated from. ",
"UpdateServiceSettingsRequest$LinuxSubscriptionsDiscoverySettings": " The settings defined for Linux subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data will be aggregated from. ",
"UpdateServiceSettingsResponse$LinuxSubscriptionsDiscoverySettings": " The settings defined for Linux subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data will be aggregated from. "
}
},
"ListLinuxSubscriptionInstancesRequest": {
"base": " NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in request increases. ",
"refs": {
}
},
"ListLinuxSubscriptionInstancesRequestNextTokenString": {
"base": null,
"refs": {
"ListLinuxSubscriptionInstancesRequest$NextToken": " A token to specify where to start paginating. This is the nextToken from a previously truncated response. "
}
},
"ListLinuxSubscriptionInstancesResponse": {
"base": null,
"refs": {
}
},
"ListLinuxSubscriptionsRequest": {
"base": " NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in request increases. ",
"refs": {
}
},
"ListLinuxSubscriptionsRequestNextTokenString":
{
"base": null,
"refs": {
"ListLinuxSubscriptionsRequest$NextToken": " A token to specify where to start paginating. This is the nextToken from a previously truncated response. "
}
},

"ListLinuxSubscriptionsResponse": {
"base": null,
"refs": {
}
},
"ListRegisteredSubscriptionProvidersRequest": {
"base": null,
"refs": {
}
},
"ListRegisteredSubscriptionProvidersRequestMaxResultsInteger": {
"base": null,
"refs": {
"ListRegisteredSubscriptionProvidersRequest$MaxResults": " The maximum items to return in a request. "
}
},
"ListRegisteredSubscriptionProvidersResponse": {
"base": null,
"refs": {
}
},
"ListTagsForResourceRequest": {
"base": null,
"refs": {
}
},
"ListTagsForResourceResponse": {
"base": null,
"refs": {
}
},
"Operator": {
"base": null,
"refs":
{
"Filter$Operator": " An operator for filtering results. "
}
},
"OrganizationIntegration": {
"base": null,
"refs": {
"LinuxSubscriptionsDiscoverySettings$OrganizationIntegration": " Details if you have enabled resource discovery across your accounts in Organizations. "
}
},
"ProductCodeList": {
"base": null,

"refs": {
"Instance$ProductCode": " The product code for the instance. For more information, see Usage operation values in the License Manager User Guide . "
}
},
"RegisterSubscriptionProviderRequest": {
"base": null,
"refs": {
}
},
"RegisterSubscriptionProviderResponse": {
"base": null,
"refs": {
}
},
"RegisteredSubscriptionProvider": {
"base": " A third-party provider for operating system (OS) platform software and license subscriptions, such as Red Hat. When you register a third-party Linux subscription provider, License Manager can get subscription data from the registered provider. ",
"refs": {
"RegisteredSubscriptionProviderList$member": null
}
},
"RegisteredSubscriptionProviderList": {
"base": null,
"refs": {
"ListRegisteredSubscriptionProvidersResponse$RegisteredSubscriptionProviders": " The list of BYOL registration resources that fit the criteria you specified in the request. "
}
},
"ResourceNotFoundException": {
"base": " Unable to find the requested Amazon Web Services resource. ",
"refs": {
}
},
"SecretArn": {
"base": null,
"refs": {
"GetRegisteredSubscriptionProviderResponse$SecretArn": " The Amazon Resource Name (ARN) of the third-party access secret stored in Secrets Manager for the BYOL registration resource specified in the request. ",
"RegisterSubscriptionProviderRequest$SecretArn": " The Amazon Resource Name (ARN) of the secret where you've stored your subscription provider's access token. For RHEL subscriptions managed through the Red Hat Subscription Manager (RHSM), the secret contains your Red Hat Offline token. ",
"RegisteredSubscriptionProvider$SecretArn": " The Amazon Resource Name (ARN) of the Secrets Manager secret that stores your registered Linux subscription provider access token. For RHEL account subscriptions, this is the offline token. "

}
},
"Status": {
"base": null,
"refs": {
"GetServiceSettingsResponse$Status": " Indicates the status of Linux subscriptions settings being applied. ",
"UpdateServiceSettingsResponse$Status": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"String": {
"base": null,
"refs": {
"Filter$Name": " The type of name to filter by. ",
"GetRegisteredSubscriptionProviderResponse$LastSuccessfulDataRetrievalTime": " The timestamp from the last time License Manager retrieved subscription details from your registered third-party Linux subscription provider. ",
"GetRegisteredSubscriptionProviderResponse$SubscriptionProviderStatusMessage": " The detailed message from your subscription provider token status. ",
"Instance$AccountID": " The account ID which owns the instance. ",
"Instance$AmiId": " The AMI ID used to launch the instance. ",
"Instance$DualSubscription": " Indicates that you have two different license subscriptions for the same software on your instance. ",
"Instance$InstanceID": " The instance ID of the resource. ",
"Instance$InstanceType": " The instance type of the resource. ",
"Instance$LastUpdatedTime": " The time in which the last discovery updated the instance details. ",
"Instance$OsVersion": " The operating system software version that runs on your instance. ",
"Instance$Region": " The Region the instance is running in. ",
"Instance$RegisteredWithSubscriptionProvider": " Indicates that your instance uses a BYOL license subscription from a third-party Linux subscription provider that you've registered with License Manager. ",
"Instance$Status": " The status of the instance. ",
"Instance$SubscriptionName": " The name of the license subscription that the instance uses. ",
"Instance$SubscriptionProviderCreateTime": " The timestamp when you registered the third-party Linux subscription provider for the subscription that the instance uses. ",
"Instance$SubscriptionProviderUpdateTime": " The timestamp from the last time that the instance synced with the registered third-party Linux subscription provider. ",
"Instance$UsageOperation": " The usage operation of the instance. For more information, see For more information, see Usage operation values in the License Manager User Guide. ",
"InternalServerException$message": null,
"ListLinuxSubscriptionInstancesResponse$NextToken": " The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. ",
"ListLinuxSubscriptionsResponse$NextToken": " The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the

next request to retrieve additional objects. ",
"ListRegisteredSubscriptionProvidersRequest$NextToken": " A token to specify where to start paginating. This is the nextToken from a
previously truncated response. ",
"ListRegisteredSubscriptionProvidersResponse$NextToken": " The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. ",
"ProductCodeList$member": null,
"RegisterSubscriptionProviderResponse$SubscriptionProviderArn": " The Amazon Resource Name (ARN) of the Linux subscription provider resource that you registered. ",
"RegisteredSubscriptionProvider$LastSuccessfulDataRetrievalTime": " The timestamp from the last time that License Manager accessed third-party subscription data for your account from your registered Linux subscription provider. ",
"RegisteredSubscriptionProvider$SubscriptionProviderStatusMessage": " A detailed message that's associated with your BYOL subscription provider token status. ",
"ResourceNotFoundException$message":
null,
"StringMap$key": null,
"StringMap$value": null,
"Subscription$Name": " The name of the subscription. ",
"Subscription$Type": " The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS. ",
"TagKeyList$member": null,
"Tags$key": null,
"Tags$value": null,
"ThrottlingException$message": null,
"ValidationException$message": null
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},
"StringList": {
"base": null,
"refs": {
"Filter$Values": " One or more values for the name to filter by. ",
"GetServiceSettingsResponse$HomeRegions": " The Region in which License Manager displays the aggregated data for Linux subscriptions. ",
"LinuxSubscriptionsDiscoverySettings$SourceRegions":
" The Regions in which to discover data for Linux subscriptions. ",
"UpdateServiceSettingsResponse$HomeRegions": " The Region in which License Manager displays the aggregated data for Linux subscriptions. "
}
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"StringListMemberString": {
"base": null,
"refs": {
"StringList$member": null
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"StringMap": {
"base": null,
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"GetServiceSettingsResponse$StatusMessage": " A message which details the Linux subscriptions service settings current status. ",
"UpdateServiceSettingsResponse$StatusMessage": " A message which details the Linux subscriptions service settings current status. "
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"refs": {
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"ListLinuxSubscriptionsResponse$Subscriptions": " An array that contains subscription objects. "
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"SubscriptionProviderArn": {
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"DeregisterSubscriptionProviderRequest$SubscriptionProviderArn": " The Amazon Resource Name (ARN) of the subscription provider resource to deregister. ",
"GetRegisteredSubscriptionProviderRequest$SubscriptionProviderArn": " The Amazon Resource Name (ARN) of the BYOL registration resource to get details for. ",
"GetRegisteredSubscriptionProviderResponse$SubscriptionProviderArn": " The Amazon Resource Name (ARN) for the BYOL registration resource specified in the request. ",
"ListTagsForResourceRequest$resourceArn": " The Amazon Resource Name (ARN) of the resource for which to list metadata tags. ",
"RegisteredSubscriptionProvider$SubscriptionProviderArn": " The Amazon Resource Name (ARN) of the Linux subscription provider resource that you registered. ",
"TagResourceRequest$resourceArn": " The Amazon Resource Name (ARN) of the Amazon Web Services resource to which to add the specified metadata tags. ",
"UntagResourceRequest$resourceArn": " The Amazon Resource Name (ARN) of the Amazon Web Services resource to remove the metadata tags from. "
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"SubscriptionProviderSource": {
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"GetRegisteredSubscriptionProviderResponse$SubscriptionProviderSource": " The subscription provider for the BYOL registration resource specified in the request. ",
"RegisterSubscriptionProviderRequest$SubscriptionProviderSource": " The supported Linux subscription

provider to register. ",
"RegisterSubscriptionProviderResponse$SubscriptionProviderSource": " The Linux subscription provider that you registered. ",
"RegisteredSubscriptionProvider$SubscriptionProviderSource": " A supported third-party Linux subscription provider. License
Manager currently supports Red Hat subscriptions. ",
"SubscriptionProviderSourceList$member": null
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"SubscriptionProviderSourceList": {
"base": null,
"refs": {
"ListRegisteredSubscriptionProvidersRequest$SubscriptionProviderSources": " To filter your results, specify which subscription providers to return in the list. "
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"SubscriptionProviderStatus": {
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"refs": {
"GetRegisteredSubscriptionProviderResponse$SubscriptionProviderStatus": " The status of the Linux subscription provider access token from the last successful subscription data request. ",
"RegisterSubscriptionProviderResponse$SubscriptionProviderStatus": " Indicates the status of the registration action for the Linux subscription provider that you requested. ",
"RegisteredSubscriptionProvider$SubscriptionProviderStatus": " Indicates the status of your registered Linux subscription provider access
token from the last time License Manager retrieved subscription data. For RHEL account subscriptions, this is the status of the offline token. "
}
},
"TagKeyList": {
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"refs": {
"UntagResourceRequest$tagKeys": " A list of metadata tag keys to remove from the requested resource. "
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"refs": {
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"TagResourceResponse": {
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"refs": {
}
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"Tags": {
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"refs": {
"ListTagsForResourceResponse$tags": " The metadata tags for the requested resource. ",
"RegisterSubscriptionProviderRequest$Tags": " The metadata tags to assign to your registered Linux subscription provider resource. ",
"TagResourceRequest$tags": " The metadata tags to assign to the Amazon Web Services resource. Tags are formatted as key value pairs. "
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"ThrottlingException": {
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"refs": {
}
},
"UntagResourceRequest": {
"base": null,
"refs": {
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"UntagResourceResponse": {
"base": null,
"refs": {
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"UpdateServiceSettingsRequest": {
"base": null,
"refs": {
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"UpdateServiceSettingsResponse": {
"base": null,
"refs": {
}
},
"ValidationException": {
"base": " The provided input is not valid. Try your request again. ",
"refs": {
}
}
}
}
AWS SDK for Go
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{
"version":"2.0",
"metadata":{
"apiVersion":"2018-08-01",
"endpointPrefix":"license-manager",

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  "protocol":"json",
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  "serviceId":"License Manager",
  "signatureVersion":"v4",
  "targetPrefix":"AWSLicenseManager",
  "uid":"license-manager-2018-08-01"
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      "requestUri":"/"
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{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},

{"shape":"RateLimitExceededException"},
{"shape":"AccessDeniedException"},
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{"shape":"ServerInternalException"},
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"output":{"shape":"CreateTokenResponse"},
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"output":{"shape":"GetLicenseUsageResponse"},
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{"shape":"AccessDeniedException"},
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      {"shape":"ServerInternalException"}
    ]
  },
  "ListUsageForLicenseConfiguration":{
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    "output":{"shape":"ListUsageForLicenseConfigurationResponse"},
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      {"shape":"FilterLimitExceededException"},
      {"shape":"ServerInternalException"},
      {"shape":"AuthorizationException"},
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{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
]
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"output":{"shape":"RejectGrantResponse"},
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{"shape":"InvalidParameterValueException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ResourceLimitExceededException"},
{"shape":"ServerInternalException"}
]
},
"TagResource":{
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"http":{
"method":"POST",
"requestUri":"/"
},
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"output":{"shape":"TagResourceResponse"},
"errors":[
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{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
]
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"output":{"shape":"UntagResourceResponse"},
"errors":[
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{"shape":"ServerInternalException"},
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{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
]
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"requestUri":"/"
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"output":{"shape":"UpdateLicenseConfigurationResponse"},
"errors":[
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{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ResourceLimitExceededException"}
]
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"input":{"shape":"UpdateLicenseManagerReportGeneratorRequest"},
"output":{"shape":"UpdateLicenseManagerReportGeneratorResponse"},
"errors":[
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{"shape":"InvalidParameterValueException"},
{"shape":"RateLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"ResourceNotFoundException"},
{"shape":"ResourceLimitExceededException"}
]
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"UpdateLicenseSpecificationsForResource":{
"name":"UpdateLicenseSpecificationsForResource",
"http":{
"method":"POST",
"requestUri":"/"

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  },
    "input":{"shape":"UpdateLicenseSpecificationsForResourceRequest"},
    "output":{"shape":"UpdateLicenseSpecificationsForResourceResponse"},
    "errors":[
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      {"shape":"InvalidResourceStateException"},
      {"shape":"LicenseUsageException"},
      {"shape":"ServerInternalException"},
      {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
      {"shape":"RateLimitExceededException"}
    ]
  },
  "UpdateServiceSettings":{
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    "http":{
      "method":"POST",
      "requestUri":"/"
    },
    "input":{"shape":"UpdateServiceSettingsRequest"},
    "output":{"shape":"UpdateServiceSettingsResponse"},
    "errors":[
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      {"shape":"ServerInternalException"},
      {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
      {"shape":"RateLimitExceededException"}
     ]
  }
},
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    "required":["GrantArn"],
    "members":{
      "GrantArn":{"shape":"Arn"}
    }
  },
  "AcceptGrantResponse":{
    "type":"structure",
    "members":{
      "GrantArn":{"shape":"Arn"},
      "Status":{"shape":"GrantStatus"},
      "Version":{"shape":"String"}
    }
  },
  "AccessDeniedException":{
    "type":"structure",
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"members":{
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"exception":true
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"ActivationOverrideBehavior":{
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"ALL_GRANTS_PERMITTED_BY_ISSUER"
]
},
"AllowedOperation":{
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"enum":[
"CreateGrant",
"CheckoutLicense",
"CheckoutBorrowLicense",
"CheckInLicense",
"ExtendConsumptionLicense",
"ListPurchasedLicenses",
"CreateToken"
]
},
"AllowedOperationList":{
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"min":1
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"Arn":{
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"max":2048,
"pattern":"^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
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"ArnList":{
"type":"list",
"member":{"shape":"Arn"}
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"AuthorizationException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"exception":true
},
"AutomatedDiscoveryInformation":{

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  "type":"structure",
  "members":{
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  }
},
"Boolean":{"type":"boolean"},
"BorrowConfiguration":{
  "type":"structure",
  "required":[
    "AllowEarlyCheckIn",
    "MaxTimeToLiveInMinutes"
  ],
  "members":{
    "AllowEarlyCheckIn":{"shape":"BoxBoolean"},
    "MaxTimeToLiveInMinutes":{"shape":"BoxInteger"}
   }
},
"BoxBoolean":{"type":"boolean"},
"BoxInteger":{"type":"integer"},
"BoxLong":{"type":"long"},
"CheckInLicenseRequest":{
  "type":"structure",
  "required":["LicenseConsumptionToken"],
  "members":{
    "LicenseConsumptionToken":{"shape":"String"},
    "Beneficiary":{"shape":"String"}
  }
},
"CheckInLicenseResponse":{
  "type":"structure",
  "members":{
  }
},
"CheckoutBorrowLicenseRequest":{
  "type":"structure",
  "required":[
    "LicenseArn",
    "Entitlements",
    "DigitalSignatureMethod",
    "ClientToken"
  ],
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "Entitlements":{"shape":"EntitlementDataList"},
    "DigitalSignatureMethod":{"shape":"DigitalSignatureMethod"},
    "NodeId":{"shape":"String"},
    "CheckoutMetadata":{"shape":"MetadataList"},
    "ClientToken":{"shape":"ClientToken"}
```

```
    }
  },

  "CheckoutBorrowLicenseResponse":{
    "type":"structure",
    "members":{
      "LicenseArn":{"shape":"Arn"},
      "LicenseConsumptionToken":{"shape":"String"},
      "EntitlementsAllowed":{"shape":"EntitlementDataList"},
      "NodeId":{"shape":"String"},
      "SignedToken":{"shape":"SignedToken"},
      "IssuedAt":{"shape":"ISO8601DateTime"},
      "Expiration":{"shape":"ISO8601DateTime"},
      "CheckoutMetadata":{"shape":"MetadataList"}
    }
  },
  "CheckoutLicenseRequest":{
    "type":"structure",
    "required":[
      "ProductSKU",
      "CheckoutType",
      "KeyFingerprint",
      "Entitlements",
      "ClientToken"
    ],
    "members":{
      "ProductSKU":{"shape":"String"},
      "CheckoutType":{"shape":"CheckoutType"},
      "KeyFingerprint":{"shape":"String"},
      "Entitlements":{"shape":"EntitlementDataList"},
      "ClientToken":{"shape":"ClientToken"},
      "Beneficiary":{"shape":"String"},
      "NodeId":{"shape":"String"}
     }
  },
  "CheckoutLicenseResponse":{
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    "members":{
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      "LicenseConsumptionToken":{"shape":"String"},
      "EntitlementsAllowed":{"shape":"EntitlementDataList"},
      "SignedToken":{"shape":"SignedToken"},
      "NodeId":{"shape":"String"},
      "IssuedAt":{"shape":"ISO8601DateTime"},
      "Expiration":{"shape":"ISO8601DateTime"},
      "LicenseArn":{"shape":"String"}
    }
  },
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"CheckoutType":{
  "type":"string",
  "enum":[
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    "PERPETUAL"
  ]
},
"ClientRequestToken":{
  "type":"string",
  "max":36,
  "min":1
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"ClientToken":{
  "type":"string",
  "max":2048,
  "pattern":"\\S+"
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"ConflictException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"ConsumedLicenseSummary":{
  "type":"structure",
   "members":{
    "ResourceType":{"shape":"ResourceType"},
    "ConsumedLicenses":{"shape":"BoxLong"}
  }
},
"ConsumedLicenseSummaryList":{
  "type":"list",
  "member":{"shape":"ConsumedLicenseSummary"}
},
"ConsumptionConfiguration":{
  "type":"structure",
  "members":{
    "RenewType":{"shape":"RenewType"},
    "ProvisionalConfiguration":{"shape":"ProvisionalConfiguration"},
    "BorrowConfiguration":{"shape":"BorrowConfiguration"}
  }
},
"CreateGrantRequest":{
  "type":"structure",
  "required":[
    "ClientToken",
    "GrantName",

"LicenseArn",
"Principals",
"HomeRegion",
"AllowedOperations"
],
"members":{
"ClientToken":{"shape":"ClientToken"},
"GrantName":{"shape":"String"},
"LicenseArn":{"shape":"Arn"},
"Principals":{"shape":"PrincipalArnList"},
"HomeRegion":{"shape":"String"},
"AllowedOperations":{"shape":"AllowedOperationList"}
}
},
"CreateGrantResponse":{
"type":"structure",
"members":{
"GrantArn":{"shape":"Arn"},
"Status":{"shape":"GrantStatus"},
"Version":{"shape":"String"}
}
},
"CreateGrantVersionRequest":{
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"required":[
"ClientToken",
"GrantArn"
],
"members":{
"ClientToken":{"shape":"ClientToken"},
"GrantArn":{"shape":"Arn"},
"GrantName":{"shape":"String"},
"AllowedOperations":{"shape":"AllowedOperationList"},
"Status":{"shape":"GrantStatus"},
"StatusReason":{"shape":"StatusReasonMessage"},
"SourceVersion":{"shape":"String"},
"Options":{"shape":"Options"}
}
},
"CreateGrantVersionResponse":{
"type":"structure",
"members":{
"GrantArn":{"shape":"Arn"},
"Status":{"shape":"GrantStatus"},
"Version":{"shape":"String"}
}
},
"CreateLicenseConfigurationRequest":{

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"Name",
"LicenseCountingType"
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"members":{
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"Description":{"shape":"String"},
"LicenseCountingType":{"shape":"LicenseCountingType"},
"LicenseCount":{"shape":"BoxLong"},
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"LicenseRules":{"shape":"StringList"},
"Tags":{"shape":"TagList"},
"DisassociateWhenNotFound":{"shape":"BoxBoolean"},
"ProductInformationList":{"shape":"ProductInformationList"}
}
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"CreateLicenseConfigurationResponse":{
"type":"structure",
"members":{
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"CreateLicenseConversionTaskForResourceRequest":{
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"required":[
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"SourceLicenseContext",
"DestinationLicenseContext"
],
"members":{
"ResourceArn":{"shape":"Arn"},
"SourceLicenseContext":{"shape":"LicenseConversionContext"},
"DestinationLicenseContext":{"shape":"LicenseConversionContext"}
}
},
"CreateLicenseConversionTaskForResourceResponse":{
"type":"structure",
"members":{
"LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"}
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},
"CreateLicenseManagerReportGeneratorRequest":{
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"required":[
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"Type",
"ReportContext",

"ReportFrequency",
"ClientToken"
],
"members":{
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"Type":{"shape":"ReportTypeList"},
"ReportContext":{"shape":"ReportContext"},
"ReportFrequency":{"shape":"ReportFrequency"},
"ClientToken":{"shape":"ClientRequestToken"},
"Description":{"shape":"String"},
"Tags":{"shape":"TagList"}
}
},
"CreateLicenseManagerReportGeneratorResponse":{
"type":"structure",
"members":{
"LicenseManagerReportGeneratorArn":{"shape":"String"}
}
},
"CreateLicenseRequest":{
"type":"structure",
"required":[
"LicenseName",
"ProductName",
"ProductSKU",
"Issuer",
"HomeRegion",
"Validity",
"Entitlements",
"Beneficiary",
"ConsumptionConfiguration",
"ClientToken"
],
"members":{
"LicenseName":{"shape":"String"},
"ProductName":{"shape":"String"},
"ProductSKU":{"shape":"String"},
"Issuer":{"shape":"Issuer"},
"HomeRegion":{"shape":"String"},
"Validity":{"shape":"DatetimeRange"},
"Entitlements":{"shape":"EntitlementList"},
"Beneficiary":{"shape":"String"},
"ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
"LicenseMetadata":{"shape":"MetadataList"},
"ClientToken":{"shape":"ClientToken"}

}
},

"CreateLicenseResponse":{
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    "Status":{"shape":"LicenseStatus"},
    "Version":{"shape":"String"}
  }
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    "LicenseName",
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    "Issuer",
    "HomeRegion",
    "Validity",
    "Entitlements",
    "ConsumptionConfiguration",
    "Status",
    "ClientToken"
  ],
  "members":{
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    "LicenseName":{"shape":"String"},
    "ProductName":{"shape":"String"},
    "Issuer":{"shape":"Issuer"},
    "HomeRegion":{"shape":"String"},
    "Validity":{"shape":"DatetimeRange"},
    "LicenseMetadata":{"shape":"MetadataList"},
    "Entitlements":{"shape":"EntitlementList"},
    "ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
    "Status":{"shape":"LicenseStatus"},
     "ClientToken":{"shape":"ClientToken"},
    "SourceVersion":{"shape":"String"}
  }
},
"CreateLicenseVersionResponse":{
  "type":"structure",
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "Version":{"shape":"String"},
    "Status":{"shape":"LicenseStatus"}
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"CreateTokenRequest":{
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  "required":[

"LicenseArn",
"ClientToken"
],
"members":{
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"RoleArns":{"shape":"ArnList"},
"ExpirationInDays":{"shape":"Integer"},
"TokenProperties":{"shape":"MaxSize3StringList"},
"ClientToken":{"shape":"ClientToken"}
}
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"CreateTokenResponse":{
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"members":{
"TokenId":{"shape":"String"},
"TokenType":{"shape":"TokenType"},
"Token":{"shape":"TokenString"}
}
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"DateTime":{"type":"timestamp"},
"DatetimeRange":{

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"members":{
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"End":{"shape":"ISO8601DateTime"}
}
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"DeleteGrantRequest":{
"type":"structure",
"required":[
"GrantArn",
"Version"
],
"members":{
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"StatusReason":{"shape":"StatusReasonMessage"},
"Version":{"shape":"String"}
}
},
"DeleteGrantResponse":{
"type":"structure",
"members":{
"GrantArn":{"shape":"Arn"},
"Status":{"shape":"GrantStatus"},
"Version":{"shape":"String"}
}

},
"DeleteLicenseConfigurationRequest":{
"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{
"LicenseConfigurationArn":{"shape":"String"}
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},
"DeleteLicenseConfigurationResponse":{
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"members":{
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},
"DeleteLicenseManagerReportGeneratorRequest":{
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"required":["LicenseManagerReportGeneratorArn"],
"members":{
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},
"DeleteLicenseManagerReportGeneratorResponse":{
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"members":{
}
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"DeleteLicenseRequest":{
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"LicenseArn",
"SourceVersion"
],
"members":{
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"SourceVersion":{"shape":"String"}
}
},
"DeleteLicenseResponse":{
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"members":{
"Status":{"shape":"LicenseDeletionStatus"},
"DeletionDate":{"shape":"ISO8601DateTime"}
}
},
"DeleteTokenRequest":{
"type":"structure",
"required":["TokenId"],
"members":{
"TokenId":{"shape":"String"}

```
  }
},
"DeleteTokenResponse":{
  "type":"structure",
  "members":{
  }
},
"DigitalSignatureMethod":{

  "type":"string",
  "enum":["JWT_PS384"]
},
"Entitlement":{
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  "required":[
    "Name",
    "Unit"
  ],
  "members":{
    "Name":{"shape":"String"},
    "Value":{"shape":"String"},
    "MaxCount":{"shape":"Long"},
    "Overage":{"shape":"BoxBoolean"},
    "Unit":{"shape":"EntitlementUnit"},
    "AllowCheckIn":{"shape":"BoxBoolean"}
  }
},
"EntitlementData":{
  "type":"structure",
  "required":[
    "Name",
    "Unit"
  ],
  "members":{
    "Name":{"shape":"String"},
    "Value":{"shape":"String"},
    "Unit":{"shape":"EntitlementDataUnit"}
  }
},
"EntitlementDataList":{
  "type":"list",
  "member":{"shape":"EntitlementData"}
},
"EntitlementDataUnit":{
  "type":"string",
  "enum":[
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    "None",
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"Seconds",
"Microseconds",
"Milliseconds",
"Bytes",
"Kilobytes",

"Megabytes",
"Gigabytes",
"Terabytes",
"Bits",
"Kilobits",
"Megabits",
"Gigabits",
"Terabits",
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"Terabits/Second",
"Count/Second"
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},
"EntitlementList":{
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"EntitlementNotAllowedException":{
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"members":{
"Message":{"shape":"Message"}
},
"exception":true
},
"EntitlementUnit":{
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"enum":[
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"None",
"Seconds",
"Microseconds",
"Milliseconds",
"Bytes",

"Kilobytes",
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"Gigabytes",
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"Count/Second"
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"EntitlementUsage":{
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"required":[
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"ConsumedValue",
"Unit"
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"members":{
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"ConsumedValue":{"shape":"String"},
"MaxCount":{"shape":"String"},
"Unit":{"shape":"EntitlementDataUnit"}
}
},
"EntitlementUsageList":{
"type":"list",
"member":{"shape":"EntitlementUsage"}
},
"ExtendLicenseConsumptionRequest":{
"type":"structure",
"required":["LicenseConsumptionToken"],
"members":{
"LicenseConsumptionToken":{"shape":"String"},

"DryRun":{"shape":"Boolean"}
}
},
"ExtendLicenseConsumptionResponse":{
"type":"structure",
"members":{
"LicenseConsumptionToken":{"shape":"String"},
"Expiration":{"shape":"ISO8601DateTime"}
}
},
"FailedDependencyException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"},
"ErrorCode":{"shape":"String"}
},
"exception":true
},
"Filter":{
"type":"structure",
"members":{
"Name":{"shape":"FilterName"},
"Values":{"shape":"FilterValues"}
}
},
"FilterLimitExceededException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"exception":true
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"FilterList":{
"type":"list",
"member":{"shape":"Filter"}
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"FilterName":{"type":"string"},
"FilterValue":{"type":"string"},
"FilterValues":{
"type":"list",
"member":{"shape":"FilterValue"}
},
"Filters":{
"type":"list",
"member":{"shape":"Filter"}
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"GetAccessTokenRequest":{
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"required":["Token"],
"members":{
"Token":{"shape":"TokenString"},
"TokenProperties":{"shape":"MaxSize3StringList"}
}
},
"GetAccessTokenResponse":{
"type":"structure",
"members":{
"AccessToken":{"shape":"TokenString"}
}
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"GetGrantRequest":{
"type":"structure",
"required":["GrantArn"],
"members":{
"GrantArn":{"shape":"Arn"},
"Version":{"shape":"String"}
}
},
"GetGrantResponse":{
"type":"structure",
"members":{
"Grant":{"shape":"Grant"}
}
},
"GetLicenseConfigurationRequest":{
"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{
"LicenseConfigurationArn":{"shape":"String"}
}
},
"GetLicenseConfigurationResponse":{
"type":"structure",
"members":{
"LicenseConfigurationId":{"shape":"String"},
"LicenseConfigurationArn":{"shape":"String"},
"Name":{"shape":"String"},
"Description":{"shape":"String"},
"LicenseCountingType":{"shape":"LicenseCountingType"},
"LicenseRules":{"shape":"StringList"},
"LicenseCount":{"shape":"BoxLong"},
"LicenseCountHardLimit":{"shape":"BoxBoolean"},
"ConsumedLicenses":{"shape":"BoxLong"},
"Status":{"shape":"String"},
"OwnerAccountId":{"shape":"String"},
"ConsumedLicenseSummaryList":{"shape":"ConsumedLicenseSummaryList"},

"ManagedResourceSummaryList":{"shape":"ManagedResourceSummaryList"},
"Tags":{"shape":"TagList"},
"ProductInformationList":{"shape":"ProductInformationList"},
"AutomatedDiscoveryInformation":{"shape":"AutomatedDiscoveryInformation"},
"DisassociateWhenNotFound":{"shape":"BoxBoolean"}
}
},
"GetLicenseConversionTaskRequest":{
"type":"structure",
"required":["LicenseConversionTaskId"],
"members":{
"LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"}
}
},
"GetLicenseConversionTaskResponse":{
"type":"structure",
"members":{
"LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"},
"ResourceArn":{"shape":"String"},
"SourceLicenseContext":{"shape":"LicenseConversionContext"},
"DestinationLicenseContext":{"shape":"LicenseConversionContext"},
"StatusMessage":{"shape":"String"},
"Status":{"shape":"LicenseConversionTaskStatus"},
"StartTime":{"shape":"DateTime"},
"LicenseConversionTime":{"shape":"DateTime"},
"EndTime":{"shape":"DateTime"}
}
},
"GetLicenseManagerReportGeneratorRequest":{
"type":"structure",
"required":["LicenseManagerReportGeneratorArn"],
"members":{
"LicenseManagerReportGeneratorArn":{"shape":"String"}
}
},
"GetLicenseManagerReportGeneratorResponse":{
"type":"structure",
"members":{
"ReportGenerator":{"shape":"ReportGenerator"}
}
},
"GetLicenseRequest":{
"type":"structure",
"required":["LicenseArn"],
"members":{
"LicenseArn":{"shape":"Arn"},
"Version":{"shape":"String"}
}

},
"GetLicenseResponse":{
  "type":"structure",
  "members":{
    "License":{"shape":"License"}
  }
},
"GetLicenseUsageRequest":{
  "type":"structure",
  "required":["LicenseArn"],
  "members":{
    "LicenseArn":{"shape":"Arn"}
  }
},
"GetLicenseUsageResponse":{
  "type":"structure",
  "members":{
    "LicenseUsage":{"shape":"LicenseUsage"}
  }
},
"GetServiceSettingsRequest":{
  "type":"structure",
  "members":{
  }
},
"GetServiceSettingsResponse":{
  "type":"structure",
  "members":{
    "S3BucketArn":{"shape":"String"},
     "SnsTopicArn":{"shape":"String"},
    "OrganizationConfiguration":{"shape":"OrganizationConfiguration"},
    "EnableCrossAccountsDiscovery":{"shape":"BoxBoolean"},
    "LicenseManagerResourceShareArn":{"shape":"String"}
  }
},
"Grant":{
  "type":"structure",
  "required":[
    "GrantArn",
    "GrantName",
    "ParentArn",
    "LicenseArn",
    "GranteePrincipalArn",
    "HomeRegion",
    "GrantStatus",
    "Version",
    "GrantedOperations"
  ],

```
  "members":{
    "GrantArn":{"shape":"Arn"},
    "GrantName":{"shape":"String"},
    "ParentArn":{"shape":"Arn"},
    "LicenseArn":{"shape":"Arn"},
    "GranteePrincipalArn":{"shape":"Arn"},
    "HomeRegion":{"shape":"String"},
    "GrantStatus":{"shape":"GrantStatus"},
    "StatusReason":{"shape":"StatusReasonMessage"},
    "Version":{"shape":"String"},
    "GrantedOperations":{"shape":"AllowedOperationList"},
     "Options":{"shape":"Options"}
  }
},
"GrantList":{
  "type":"list",
  "member":{"shape":"Grant"}
},
"GrantStatus":{
  "type":"string",
  "enum":[
    "PENDING_WORKFLOW",
    "PENDING_ACCEPT",
    "REJECTED",
    "ACTIVE",
    "FAILED_WORKFLOW",
    "DELETED",
    "PENDING_DELETE",
    "DISABLED",
    "WORKFLOW_COMPLETED"
  ]
},
"GrantedLicense":{
  "type":"structure",
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "LicenseName":{"shape":"String"},
    "ProductName":{"shape":"String"},
    "ProductSKU":{"shape":"String"},
    "Issuer":{"shape":"IssuerDetails"},
    "HomeRegion":{"shape":"String"},
    "Status":{"shape":"LicenseStatus"},
    "Validity":{"shape":"DatetimeRange"},
    "Beneficiary":{"shape":"String"},
    "Entitlements":{"shape":"EntitlementList"},
    "ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
```

"LicenseMetadata":{"shape":"MetadataList"},
"CreateTime":{"shape":"ISO8601DateTime"},
"Version":{"shape":"String"},
"ReceivedMetadata":{"shape":"ReceivedMetadata"}
}
},
"GrantedLicenseList":{
"type":"list",
"member":{"shape":"GrantedLicense"}
},
"ISO8601DateTime":{
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"NOT_EQUALS",
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"Issuer":{"shape":"IssuerDetails"},
"HomeRegion":{"shape":"String"},
"Status":{"shape":"LicenseStatus"},
"Validity":{"shape":"DatetimeRange"},
"Beneficiary":{"shape":"String"},
"Entitlements":{"shape":"EntitlementList"},
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"DisassociateWhenNotFound":{"shape":"BoxBoolean"},
"ConsumedLicenses":{"shape":"BoxLong"},
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"ManagedResourceSummaryList":{"shape":"ManagedResourceSummaryList"},
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"AutomatedDiscoveryInformation":{"shape":"AutomatedDiscoveryInformation"}
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"ResourceType":{"shape":"ResourceType"},
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"ResourceOwnerId":{"shape":"String"},
"AssociationTime":{"shape":"DateTime"},
"ConsumedLicenses":{"shape":"BoxLong"}

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    "SourceLicenseContext":{"shape":"LicenseConversionContext"},
    "DestinationLicenseContext":{"shape":"LicenseConversionContext"},
    "Status":{"shape":"LicenseConversionTaskStatus"},
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    "StartTime":{"shape":"DateTime"},
    "LicenseConversionTime":{"shape":"DateTime"},
    "EndTime":{"shape":"DateTime"}
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    "SUCCEEDED",
    "FAILED"
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"FailureTime":{"shape":"DateTime"},
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"ResourceOwnerId":{"shape":"String"},
"OperationRequestedBy":{"shape":"String"},
"MetadataList":{"shape":"MetadataList"}
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"LicenseSpecifications":{
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    "PENDING_DELETE",
    "DELETED"
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"LicenseUsageException":{
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  "members":{
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  "exception":true
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"ListAssociationsForLicenseConfigurationRequest":{
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  "required":["LicenseConfigurationArn"],
  "members":{
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    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
  }
},
"ListAssociationsForLicenseConfigurationResponse":{
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    "NextToken":{"shape":"String"}
  }
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"ListDistributedGrantsRequest":{
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    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}

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  }
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"ListDistributedGrantsResponse":{
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  "members":{
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    "NextToken":{"shape":"String"}
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"ListFailuresForLicenseConfigurationOperationsResponse":{
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    "NextToken":{"shape":"String"}
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"ListLicenseConfigurationsRequest":{
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    "NextToken":{"shape":"String"},
    "Filters":{"shape":"Filters"}
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"ListLicenseConfigurationsResponse":{
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    "NextToken":{"shape":"String"}
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"ListLicenseConversionTasksRequest":{
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  "members":{
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    "MaxResults":{"shape":"BoxInteger"},
    "Filters":{"shape":"Filters"}
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"NextToken":{"shape":"String"},
"MaxResults":{"shape":"MaxSize100"}
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"ListLicenseManagerReportGeneratorsResponse":{
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"NextToken":{"shape":"String"}
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"MaxResults":{"shape":"BoxInteger"},
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"ListLicenseSpecificationsForResourceResponse":{
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"NextToken":{"shape":"String"}

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"ListLicenseVersionsRequest":{
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"NextToken":{"shape":"String"},
"MaxResults":{"shape":"MaxSize100"}
}

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"ListLicenseVersionsResponse":{
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    "NextToken":{"shape":"String"}
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"ListLicensesRequest":{
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    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
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    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
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    "NextToken":{"shape":"String"},
    "Filters":{"shape":"InventoryFilterList"}
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"ListTagsForResourceResponse":{
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  "members":{
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},
"ListTokensRequest":{
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  "members":{
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    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
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  "exception":true
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    "ACTIVE",
    "FAILED_WORKFLOW",
    "DELETED",
    "DISABLED",
    "WORKFLOW_COMPLETED"
  ]
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"RejectGrantResponse":{
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"Version":{"shape":"String"}
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"WEEK",
"MONTH"
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"ReportContext":{"shape":"ReportContext"},
"ReportFrequency":{"shape":"ReportFrequency"},

"LicenseManagerReportGeneratorArn":{"shape":"String"},
"LastRunStatus":{"shape":"String"},
"LastRunFailureReason":{"shape":"String"},
"LastReportGenerationTime":{"shape":"String"},
"ReportCreatorAccount":{"shape":"String"},
"Description":{"shape":"String"},
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"CreateTime":{"shape":"String"},
"Tags":{"shape":"TagList"}
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"LicenseConfigurationUsageReport"
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"ResourceType":{"shape":"ResourceType"},
"ResourceArn":{"shape":"String"},
"Platform":{"shape":"String"},
"PlatformVersion":{"shape":"String"},
"ResourceOwningAccountId":{"shape":"String"}
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"ResourceLimitExceededException":{
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  "exception":true
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  "exception":true
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  "enum":[
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    "EC2_AMI",
    "RDS",
    "SYSTEMS_MANAGER_MANAGED_INSTANCE"
  ]
},
"S3Location":{
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"TagList":{
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  "member":{"shape":"Tag"}
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    "Tags"
  ],
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    "Tags":{"shape":"TagList"}
  }
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"TagResourceResponse":{
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    "TokenType":{"shape":"String"},
    "LicenseArn":{"shape":"String"},
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    "RoleArns":{"shape":"ArnList"},
    "Status":{"shape":"String"}
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"UntagResourceRequest":{
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"TagKeys"
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"members":{
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"TagKeys":{"shape":"TagKeyList"}
}
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"UntagResourceResponse":{
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"LicenseRules":{"shape":"StringList"},
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"LicenseCountHardLimit":{"shape":"BoxBoolean"},
"Name":{"shape":"String"},
"Description":{"shape":"String"},
"ProductInformationList":{"shape":"ProductInformationList"},
"DisassociateWhenNotFound":{"shape":"BoxBoolean"}

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  }
},
"UpdateLicenseConfigurationResponse":{
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},
"UpdateLicenseManagerReportGeneratorRequest":{
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    "ReportGeneratorName",
    "Type",
    "ReportContext",
    "ReportFrequency",
    "ClientToken"
  ],
  "members":{
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    "ReportGeneratorName":{"shape":"ReportGeneratorName"},
    "Type":{"shape":"ReportTypeList"},
    "ReportContext":{"shape":"ReportContext"},
    "ReportFrequency":{"shape":"ReportFrequency"},
    "ClientToken":{"shape":"ClientRequestToken"},
    "Description":{"shape":"String"}
  }
},
"UpdateLicenseManagerReportGeneratorResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateLicenseSpecificationsForResourceRequest":{
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  "required":["ResourceArn"],
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    "AddLicenseSpecifications":{"shape":"LicenseSpecifications"},
    "RemoveLicenseSpecifications":{"shape":"LicenseSpecifications"}
   }
},
"UpdateLicenseSpecificationsForResourceResponse":{
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  "members":{
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"UpdateServiceSettingsRequest":{
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      "SnsTopicArn":{"shape":"String"},
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    "exception":true
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          "expect": {
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              }
          },
          "params": {
              "UseFIPS": true,
              "Region": "ap-south-1",
              "UseDualStack": true
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          "params": {
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}
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"params": {
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"Region": "ap-south-1",
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"params": {
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"UseDualStack": false
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"documentation": "For region eu-south-1 with FIPS enabled and DualStack enabled",
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"params": {
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"documentation": "For region eu-south-1 with FIPS enabled and DualStack disabled",
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        "endpoint": {
          "url": "https://license-manager-user-subscriptions.ap-southeast-1.api.aws"
        }
      },
      "params": {
        "UseFIPS": false,
        "Region": "ap-southeast-1",
        "UseDualStack": true
      }

  },
    {
      "documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions.ap-southeast-1.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "Region": "ap-southeast-1",
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region ap-southeast-2 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions-fips.ap-southeast-2.api.aws"
        }
      },
      "params": {
        "UseFIPS": true,
        "Region": "ap-southeast-2",
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region ap-southeast-2 with FIPS
enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions-fips.ap-southeast-2.amazonaws.com"
        }
      },
```

"params": {
"UseFIPS": true,
"Region": "ap-southeast-2",
"UseDualStack": false
}
},
{
"documentation": "For region ap-southeast-2 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.ap-southeast-2.api.aws"
}
},
"params": {
"UseFIPS": false,
"Region": "ap-southeast-2",
"UseDualStack": true
}
},
{
"documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint":
{
"url": "https://license-manager-user-subscriptions.ap-southeast-2.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"Region": "ap-southeast-2",
"UseDualStack": false
}
},
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
}
},
"params": {
"UseFIPS": true,
"Region": "us-east-1",
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",

"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
}
},
"params": {
"UseFIPS": true,
"Region": "us-east-1",
"UseDualStack": false
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
}
},
"params": {
"UseFIPS": false,
"Region": "us-east-1",
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
}
},
"params": {
"UseFIPS": false,

"Region": "us-east-1",
"UseDualStack": false
}
},
{
"documentation": "For region us-east-2 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-2.api.aws"
}
},
"params": {
"UseFIPS": true,
"Region": "us-east-2",

"UseDualStack": true
}
},
{
"documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-2.amazonaws.com"
}
},
"params": {
"UseFIPS": true,
"Region": "us-east-2",
"UseDualStack": false
}
},
{

"documentation": "For region us-east-2 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-east-2.api.aws"
}
},
"params": {
"UseFIPS": false,
"Region": "us-east-2",
"UseDualStack": true
}
},
{
"documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-east-2.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"Region": "us-east-2",
"UseDualStack": false
}
},
{
"documentation": "For custom endpoint with fips disabled and dualstack disabled",
"expect":
{
"endpoint": {

"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,
"Region": "us-east-1",
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"UseFIPS": true,
"Region": "us-east-1",
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error": "Invalid Configuration: Dualstack and custom endpoint are not supported"

},
"params": {
"UseFIPS": false,
"Region": "us-east-1",
"UseDualStack": true,
"Endpoint": "https://example.com"
}
}
],
"version": "1.0"
}
{
"version": "2.0",
"service": " License Manager makes it easier to manage licenses from software vendors across multiple Amazon Web Services accounts and on-premises servers. ",
"operations": {
"AcceptGrant": " Accepts the specified grant. ",
"CheckInLicense": " Checks in the specified license. Check in a license when it is no longer in use. ",
"CheckoutBorrowLicense": " Checks out the specified license for offline use. ",
"CheckoutLicense": " Checks out the specified license. <note> If the account that created the license is the same that is performing the check out, you must specify the account as the beneficiary. </note>",

"CreateGrant": " Creates a grant for the specified license. A grant shares the use of license entitlements with a specific Amazon Web Services account, an organization, or an organizational unit (OU). For more information, see Granted licenses in License Manager in the License Manager User Guide. ",
"CreateGrantVersion": " Creates a new version of the specified grant. For more information, see Granted licenses in License Manager in the License Manager User Guide. ",
"CreateLicense": " Creates a license. ",
"CreateLicenseConfiguration": " Creates a license configuration. A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a license must be associated with a host), and the number of licenses purchased and used. ",
"CreateLicenseConversionTaskForResource": " Creates a new license conversion task. ",
"CreateLicenseManagerReportGenerator": " Creates a report generator. ",
"CreateLicenseVersion": " Creates a new version of the specified license. ",
"CreateToken": " Creates a long-lived token. A refresh token is a JWT token used to get an access token. With an access token, you can call AssumeRoleWithWebIdentity to get role credentials that you can use to call License Manager to manage the specified license. ",
"DeleteGrant": " Deletes the specified grant. ",
"DeleteLicense": " Deletes the specified license. ",
"DeleteLicenseConfiguration": " Deletes the specified license configuration. You cannot delete a license configuration that is in use. ",
"DeleteLicenseManagerReportGenerator": " Deletes the specified report generator. This action deletes the report generator, which stops it from generating future reports. The action cannot be reversed. It has no effect on the previous reports from this generator. ",
"DeleteToken": " Deletes the specified token. Must be called in the license home Region. ",
"ExtendLicenseConsumption": " Extends the expiration date for license consumption. ",
"GetAccessToken": " Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access tokens are valid for one hour. ",
"GetGrant": " Gets detailed information about the specified grant. ",
"GetLicense": " Gets detailed information about the specified license. ",
"GetLicenseConfiguration": " Gets detailed information about the specified license configuration. ",
"GetLicenseConversionTask": " Gets information about the specified license type conversion task. ",
"GetLicenseManagerReportGenerator": " Gets information about the specified report generator. ",
"GetLicenseUsage": " Gets detailed information about the usage of the specified license. ",
"GetServiceSettings": " Gets the License Manager settings for the current Region. ",
"ListAssociationsForLicenseConfiguration": " Lists the resource associations for the specified license configuration. Resource associations need not consume licenses from a license configuration. For example, an AMI or a stopped instance might not consume a license (depending on the license rules). ",
"ListDistributedGrants": " Lists the grants distributed for the specified license. ",
"ListFailuresForLicenseConfigurationOperations": " Lists the license configuration operations that failed. ",
"ListLicenseConfigurations": " Lists the license configurations for your account. ",
"ListLicenseConversionTasks": " Lists the license type conversion tasks for your account. ",
"ListLicenseManagerReportGenerators": " Lists the report generators for your account. ",

"ListLicenseSpecificationsForResource": " Describes the license configurations for the specified resource. ",
"ListLicenseVersions": " Lists all versions of the specified license. ",
"ListLicenses": " Lists the licenses for your account. ",
"ListReceivedGrants": " Lists grants that are received. Received grants are grants created while specifying the recipient as this Amazon Web Services account, your organization, or an organizational unit (OU) to which this member account belongs. ",
"ListReceivedGrantsForOrganization": " Lists the grants received for all accounts in the organization. ",
"ListReceivedLicenses": " Lists received licenses. ",
"ListReceivedLicensesForOrganization": " Lists the licenses received for all accounts in the organization. ",
"ListResourceInventory": " Lists resources managed using Systems Manager inventory. ",
"ListTagsForResource": " Lists the tags for the specified license configuration. ",
"ListTokens": " Lists your tokens. ",
"ListUsageForLicenseConfiguration": " Lists all license usage records for a license configuration, displaying license consumption details by resource at a selected point in time. Use this action to audit the current license consumption for any license inventory and configuration. ",
"RejectGrant": " Rejects the specified grant. ",
"TagResource": " Adds the specified tags to the specified license configuration. ",
"UntagResource": " Removes the specified tags from the specified license configuration. ",
"UpdateLicenseConfiguration": " Modifies the attributes of an existing license configuration. ",
"UpdateLicenseManagerReportGenerator": " Updates a report generator. After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated. ",
"UpdateLicenseSpecificationsForResource": " Adds or removes the specified license configurations for the specified Amazon Web Services resource. You can update the license specifications of AMIs, instances, and hosts. You cannot update the license specifications for launch templates and CloudFormation templates, as they send license configurations to the operation that creates the resource. ",
"UpdateServiceSettings": " Updates License Manager settings for the current Region. "
},
"shapes": {
"AcceptGrantRequest": {
"base": null,
"refs": {
}
},
"AcceptGrantResponse": {
"base": null,
"refs": {
}
},
"AccessDeniedException": {
"base": " Access to resource denied. ",
"refs": {
}
},
"ActivationOverrideBehavior": {

"base": null,
"refs": {
"Options$ActivationOverrideBehavior": " An activation option for your grant that determines the behavior of activating a grant. Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the <code>Status</code> parameter.   As a license administrator, you can optionally specify an <code>ActivationOverrideBehavior</code> when activating a grant.   As a grantor, you can optionally specify an <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee account in your organization.   As a grantee, if the grantor creating the distributed grant doesnt specify an <code>ActivationOverrideBehavior</code>, you can optionally specify one when you are activating the grant.   <dl> <dt>DISTRIBUTED_GRANTS_ONLY</dt> <dd> Use this value to activate a grant without replacing any member accounts active grants for the same product. </dd> <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt> <dd> Use this value to activate a grant and disable other active grants in any member accounts for the same product. This action will also replace their previously activated grants with this activated grant. </dd> </dl>"
}
},
"AllowedOperation": {
"base": null,
"refs": {
"AllowedOperationList$member": null
}
},
"AllowedOperationList": {
"base": null,
"refs": {
"CreateGrantRequest$AllowedOperations": " Allowed operations for the grant. ",
"CreateGrantVersionRequest$AllowedOperations": " Allowed operations for the grant. ",
"Grant$GrantedOperations": " Granted operations. ",
"ReceivedMetadata$AllowedOperations": " Allowed operations. "
}
},
"Arn": {
"base": null,
"refs": {
"AcceptGrantRequest$GrantArn": " Amazon Resource Name (ARN) of the grant. ",
"AcceptGrantResponse$GrantArn": " Grant ARN. ",
"ArnList$member": null,
"CheckoutBorrowLicenseRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. The license must use the borrow consumption configuration. ",
"CheckoutBorrowLicenseResponse$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"CreateGrantRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"CreateGrantResponse$GrantArn": " Grant ARN. ",
"CreateGrantVersionRequest$GrantArn": " Amazon Resource Name (ARN) of the grant. ",
"CreateGrantVersionResponse$GrantArn": " Grant ARN. ",
"CreateLicenseConversionTaskForResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of

the resource you are converting the license type for. ",
"CreateLicenseResponse$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"CreateLicenseVersionRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"CreateLicenseVersionResponse$LicenseArn": " License ARN. ",
"CreateTokenRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the JWT token. ",
"DeleteGrantRequest$GrantArn":
" Amazon Resource Name (ARN) of the grant. ",
"DeleteGrantResponse$GrantArn": " Grant ARN. ",
"DeleteLicenseRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"GetGrantRequest$GrantArn": " Amazon Resource Name (ARN) of the grant. ",
"GetLicenseRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"GetLicenseUsageRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"Grant$GrantArn": " Amazon Resource Name (ARN) of the grant. ",
"Grant$ParentArn": " Parent ARN. ",
"Grant$LicenseArn": " License ARN. ",
"Grant$GranteePrincipalArn": " The grantee principal ARN. ",
"GrantedLicense$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"License$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"ListLicenseVersionsRequest$LicenseArn": " Amazon Resource Name (ARN) of
the license. ",
"ListReceivedGrantsForOrganizationRequest$LicenseArn": " The Amazon Resource Name (ARN) of the received license. ",
"PrincipalArnList$member": null,
"RejectGrantRequest$GrantArn": " Amazon Resource Name (ARN) of the grant. ",
"RejectGrantResponse$GrantArn": " Grant ARN. "
}
},
"ArnList": {
"base": null,
"refs": {
"CreateTokenRequest$RoleArns": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. License Manager does not check whether the roles are in use. ",
"ListDistributedGrantsRequest$GrantArns": " Amazon Resource Names (ARNs) of the grants. ",
"ListLicensesRequest$LicenseArns": " Amazon Resource Names (ARNs) of the licenses. ",
"ListReceivedGrantsRequest$GrantArns": " Amazon Resource Names (ARNs) of the grants. ",
"ListReceivedLicensesRequest$LicenseArns": " Amazon Resource Names (ARNs) of the licenses. ",

"ReportContext$licenseConfigurationArns": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"TokenData$RoleArns": " Amazon Resource Names (ARN) of the roles included in the token. "
}
},
"AuthorizationException": {
"base": " The Amazon Web Services user account does not have permission to perform the action. Check the IAM policy associated with this account. ",
"refs": {
}

},
"AutomatedDiscoveryInformation": {
"base": " Describes automated discovery. ",
"refs": {
"GetLicenseConfigurationResponse$AutomatedDiscoveryInformation": " Automated discovery information. ",
"LicenseConfiguration$AutomatedDiscoveryInformation": " Automated discovery information. "
}
},
"Boolean": {
"base": null,
"refs": {
"ExtendLicenseConsumptionRequest$DryRun": " Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions. ",
"OrganizationConfiguration$EnableIntegration": " Enables Organizations integration. "
}
},
"BorrowConfiguration": {
"base": " Details about a borrow configuration. ",
"refs": {
"ConsumptionConfiguration$BorrowConfiguration": " Details about a borrow configuration. "
}
},
"BoxBoolean": {
"base": null,
"refs": {
"BorrowConfiguration$AllowEarlyCheckIn": " Indicates whether early check-ins are allowed. ",
"CreateLicenseConfigurationRequest$LicenseCountHardLimit": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit blocks the launch of new instances. ",
"CreateLicenseConfigurationRequest$DisassociateWhenNotFound": " When true, disassociates a resource when software is uninstalled. ",
"Entitlement$Overage": " Indicates
whether overages are allowed. ",
"Entitlement$AllowCheckIn": " Indicates whether check-ins are allowed. ",
"GetLicenseConfigurationResponse$LicenseCountHardLimit": " Sets the number of available licenses as a hard limit. ",
"GetLicenseConfigurationResponse$DisassociateWhenNotFound": " When true, disassociates a resource when software is uninstalled. ",
"GetServiceSettingsResponse$EnableCrossAccountsDiscovery": " Indicates whether cross-account discovery is enabled. ",
"LicenseConfiguration$LicenseCountHardLimit": " Number of available licenses as a hard limit. ",
"LicenseConfiguration$DisassociateWhenNotFound": " When true, disassociates a resource when software is uninstalled. ",
"UpdateLicenseConfigurationRequest$LicenseCountHardLimit": " New hard limit of the number of available licenses. ",
"UpdateLicenseConfigurationRequest$DisassociateWhenNotFound": " When true, disassociates

a resource when software is uninstalled. ",
"UpdateServiceSettingsRequest$EnableCrossAccountsDiscovery": " Activates cross-account discovery. "
}
},
"BoxInteger": {
"base": null,
"refs": {
"BorrowConfiguration$MaxTimeToLiveInMinutes": " Maximum time for the borrow configuration, in minutes. ",
"ListAssociationsForLicenseConfigurationRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListFailuresForLicenseConfigurationOperationsRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListLicenseConfigurationsRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListLicenseConversionTasksRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListLicenseSpecificationsForResourceRequest$MaxResults": " Maximum number of results to return in a single call. ",

"ListResourceInventoryRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListUsageForLicenseConfigurationRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ProvisionalConfiguration$MaxTimeToLiveInMinutes": " Maximum time for the provisional configuration, in minutes. "
}
},
"BoxLong": {
"base": null,
"refs": {
"ConsumedLicenseSummary$ConsumedLicenses": " Number of licenses consumed by the resource. ",
"CreateLicenseConfigurationRequest$LicenseCount": " Number of licenses managed by the license configuration. ",
"GetLicenseConfigurationResponse$LicenseCount": " Number of available licenses. ",
"GetLicenseConfigurationResponse$ConsumedLicenses": " Number of licenses assigned to resources. ",
"LicenseConfiguration$LicenseCount": " Number of licenses managed by the license configuration. ",
"LicenseConfiguration$ConsumedLicenses": " Number of licenses consumed. ",
"LicenseConfigurationUsage$ConsumedLicenses": " Number of licenses consumed by the resource. ",
"ManagedResourceSummary$AssociationCount": " Number of resources associated with licenses. ",
"UpdateLicenseConfigurationRequest$LicenseCount": " New number of licenses managed by the license configuration. "
}
},
"CheckInLicenseRequest": {
"base": null,
"refs": {

```
    }
  },
  "CheckInLicenseResponse": {
    "base": null,
    "refs": {
    }
  },
  "CheckoutBorrowLicenseRequest": {
    "base": null,
    "refs": {
    }
  },
  "CheckoutBorrowLicenseResponse": {
    "base": null,
    "refs": {
    }
  },
  "CheckoutLicenseRequest": {
    "base": null,
    "refs": {
    }
  },
  "CheckoutLicenseResponse": {
    "base": null,
    "refs": {
    }
  },
  "CheckoutType": {
    "base": null,
    "refs": {
      "CheckoutLicenseRequest$CheckoutType": "<p>Checkout type.</p>",
      "CheckoutLicenseResponse$CheckoutType": "<p>Checkout type.</p>"
    }
  },
  "ClientRequestToken": {
    "base": null,
    "refs": {
      "CreateLicenseManagerReportGeneratorRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
      "UpdateLicenseManagerReportGeneratorRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>"
    }
  },
  "ClientToken": {
    "base": null,
    "refs": {
      "CheckoutBorrowLicenseRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
```

"CheckoutLicenseRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"CreateGrantRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"CreateGrantVersionRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"CreateLicenseRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"CreateLicenseVersionRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"CreateTokenRequest$ClientToken": " Idempotency token, valid for 10 minutes. "
}
},
"ConflictException": {
"base": " There was a conflict processing the request. Try your request again. ",
"refs": {
}
},
"ConsumedLicenseSummary": {
"base": " Details about license consumption. ",
"refs": {
"ConsumedLicenseSummaryList$member": null
}
},
"ConsumedLicenseSummaryList": {
"base": null,
"refs": {
"GetLicenseConfigurationResponse$ConsumedLicenseSummaryList": " Summaries of the licenses consumed by resources. ",
"LicenseConfiguration$ConsumedLicenseSummaryList": " Summaries for licenses consumed by various resources. "
}
},
"ConsumptionConfiguration": {
"base": " Details about a consumption configuration. ",
"refs": {
"CreateLicenseRequest$ConsumptionConfiguration": " Configuration for consumption of the license. Choose a provisional configuration for workloads running with continuous connectivity. Choose a borrow configuration for workloads with offline usage. ",
"CreateLicenseVersionRequest$ConsumptionConfiguration": " Configuration for consumption of the license. Choose a provisional configuration for workloads running with continuous connectivity. Choose a borrow configuration for workloads with offline usage. ",
"GrantedLicense$ConsumptionConfiguration": " Configuration for consumption of the license. ",
"License$ConsumptionConfiguration": " Configuration for consumption of the license. "
}
},
"CreateGrantRequest": {

"base": null,
"refs": {
}
},
"CreateGrantResponse": {
"base": null,
"refs": {
}
},
"CreateGrantVersionRequest": {
"base": null,
"refs": {
}
},
"CreateGrantVersionResponse": {
"base": null,
"refs": {
}
},
"CreateLicenseConfigurationRequest": {
"base": null,
"refs": {
}
},
"CreateLicenseConfigurationResponse": {
"base": null,
"refs": {
}
},
"CreateLicenseConversionTaskForResourceRequest": {
"base": null,
"refs": {
}
},
"CreateLicenseConversionTaskForResourceResponse": {
"base": null,
"refs": {
}
},
"CreateLicenseManagerReportGeneratorRequest": {
"base": null,
"refs": {

}
},
"CreateLicenseManagerReportGeneratorResponse": {
"base": null,
"refs": {

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    }
  },
  "CreateLicenseRequest": {
    "base": null,
    "refs": {
    }
  },
  "CreateLicenseResponse": {
    "base": null,
    "refs": {
    }
  },
  "CreateLicenseVersionRequest": {
    "base": null,
    "refs": {
    }
  },
  "CreateLicenseVersionResponse": {
    "base": null,
    "refs": {
    }
  },
  "CreateTokenRequest": {
    "base": null,
    "refs": {
    }
  },
  "CreateTokenResponse": {
    "base": null,
    "refs": {
    }
  },
  "DateTime": {
    "base": null,
    "refs": {
      "AutomatedDiscoveryInformation$LastRunTime": "<p>Time that automated discovery last ran.</p>",
      "GetLicenseConversionTaskResponse$StartTime": "<p>Time at which the license type conversion task was started .</p>",
      "GetLicenseConversionTaskResponse$LicenseConversionTime": "<p>Amount of time to complete the license type conversion.</p>",
      "GetLicenseConversionTaskResponse$EndTime": "<p>Time at which the license type conversion task was completed.</p>",
      "LicenseConfigurationAssociation$AssociationTime": "<p>Time when the license configuration was associated with the resource.</p>",
      "LicenseConfigurationUsage$AssociationTime": "<p>Time when the license configuration was initially associated with the resource.</p>",
      "LicenseConversionTask$StartTime": "<p>The time the conversion task was started at.</p>",
      "LicenseConversionTask$LicenseConversionTime": "<p>The time the usage operation value of the resource
```

was changed. ",
"LicenseConversionTask$EndTime": " The time the conversion task was completed. ",
"LicenseOperationFailure$FailureTime": " Failure time. "
}
},
"DatetimeRange": {
"base": " Describes a time range, in ISO8601-UTC format. ",
"refs": {
"CreateLicenseRequest$Validity": " Date
and time range during which the license is valid, in ISO8601-UTC format. ",
"CreateLicenseVersionRequest$Validity": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"GrantedLicense$Validity": " Date and time range during which the granted license is valid, in ISO8601-UTC format. ",
"License$Validity": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"DeleteGrantRequest": {
"base": null,
"refs": {
}
},
"DeleteGrantResponse": {
"base": null,
"refs": {
}
},
"DeleteLicenseConfigurationRequest": {
"base": null,
"refs": {
}
},
"DeleteLicenseConfigurationResponse": {
"base": null,
"refs": {
}
},
"DeleteLicenseManagerReportGeneratorRequest": {
"base": null,
"refs": {
}
},
"DeleteLicenseManagerReportGeneratorResponse": {
"base": null,
"refs": {
}
},
"DeleteLicenseRequest": {

"base": null,
"refs": {
}
},
"DeleteLicenseResponse": {
"base": null,
"refs": {
}
},
"DeleteTokenRequest": {
"base": null,
"refs": {
}
},
"DeleteTokenResponse": {
"base": null,
"refs": {
}
},
"DigitalSignatureMethod": {
"base": null,
"refs": {
"CheckoutBorrowLicenseRequest$DigitalSignatureMethod": " Digital signature method. The possible value is JSON Web Signature (JWS) algorithm PS384. For more information, see RFC 7518 Digital Signature with RSASSA-PSS. "
}
},
"Entitlement": {
"base": " Describes a resource entitled for use with a license. ",
"refs": {
"EntitlementList$member": null
}
},
"EntitlementData": {
"base": " Data associated with an entitlement resource. ",

"refs": {
"EntitlementDataList$member": null
}
},
"EntitlementDataList": {
"base": null,
"refs": {
"CheckoutBorrowLicenseRequest$Entitlements": " License entitlements. Partial checkouts are not supported. ",
"CheckoutBorrowLicenseResponse$EntitlementsAllowed": " Allowed license entitlements. ",
"CheckoutLicenseRequest$Entitlements": " License entitlements. ",
"CheckoutLicenseResponse$EntitlementsAllowed": " Allowed license entitlements. "

```
    }
  },
  "EntitlementDataUnit": {
    "base": null,
    "refs": {
      "EntitlementData$Unit": "<p>Entitlement data unit.</p>",
      "EntitlementUsage$Unit": "<p>Entitlement usage unit.</p>"
    }
  },
  "EntitlementList": {
    "base": null,
    "refs": {
      "CreateLicenseRequest$Entitlements": "<p>License entitlements.</p>",
      "CreateLicenseVersionRequest$Entitlements": "<p>License entitlements.</p>",
      "GrantedLicense$Entitlements":
"<p>License entitlements.</p>",
      "License$Entitlements": "<p>License entitlements.</p>"
    }
  },
  "EntitlementNotAllowedException": {
    "base": "<p>The entitlement is not allowed.</p>",
    "refs": {
    }
  },
  "EntitlementUnit": {
    "base": null,
    "refs": {
      "Entitlement$Unit": "<p>Entitlement unit.</p>"
    }
  },
  "EntitlementUsage": {
    "base": "<p>Usage associated with an entitlement resource.</p>",
    "refs": {
      "EntitlementUsageList$member": null
    }
  },
  "EntitlementUsageList": {
    "base": null,
    "refs": {
      "LicenseUsage$EntitlementUsages": "<p>License entitlement usages.</p>"
    }
  },
  "ExtendLicenseConsumptionRequest": {
    "base": null,
    "refs": {
    }
  },
  "ExtendLicenseConsumptionResponse": {
```

"base": null,
"refs": {
}
},
"FailedDependencyException": {
"base": " A dependency required to run the API is missing. ",
"refs": {
}
},
"Filter": {
"base": " A filter name and value pair that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs. ",
"refs": {
"FilterList$member": null,
"Filters$member": null
}
},
"FilterLimitExceededException": {
"base": " The request uses too many filters or too many filter values. ",
"refs": {
}
},
"FilterList": {
"base": null,
"refs": {
"ListDistributedGrantsRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>LicenseArn</code>   <code>GrantStatus</code>   <code>GranteePrincipalARN</code>   <code>ProductSKU</code>   <code>LicenseIssuerName</code> ",
"ListLicenseManagerReportGeneratorsRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>LicenseConfigurationArn</code> ",
"ListLicensesRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>Beneficiary</code>   <code>ProductSKU</code>   <code>Fingerprint</code>   <code>Status</code> ",
"ListReceivedGrantsForOrganizationRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>ParentArn</code>   <code>GranteePrincipalArn</code> ",
"ListReceivedGrantsRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>ProductSKU</code>   <code>LicenseIssuerName</code>   <code>LicenseArn</code>   <code>GrantStatus</code>   <code>GranterAccountId</code> ",
"ListReceivedLicensesForOrganizationRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>Beneficiary</code>   <code>ProductSKU</code> ",
"ListReceivedLicensesRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>ProductSKU</code>   <code>Status</code>   <code>Fingerprint</code>   <code>IssuerName</code>

<code>Beneficiary</code> ",
"ListTokensRequest$Filters": " Filters to scope the results. The following filter is supported: <ul> <code>LicenseArns</code> "
}
},
"FilterName": {
"base": null,
"refs": {
"Filter$Name": " Name of the filter. Filter names are case-sensitive. "
}
},
"FilterValue": {
"base": null,
"refs": {
"FilterValues$member": null
}
},
"FilterValues": {
"base": null,
"refs": {
"Filter$Values": " The value of the filter, which is case-sensitive. You can only specify one value for the filter. "
}
},
"Filters": {
"base": null,
"refs": {
"ListLicenseConfigurationsRequest$Filters": " Filters to scope the results. The following filters and logical operators are supported: <ul> <code>licenseCountingType</code> - The dimension for which licenses are counted. Possible values are <code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement is used. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.
  <code>usagelimitExceeded</code> - A Boolean value that indicates whether the available licenses have been exceeded. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. ",
"ListLicenseConversionTasksRequest$Filters": " Filters to scope the results. Valid filters are <code>ResourceArns</code> and <code>Status</code>. ",
"ListUsageForLicenseConfigurationRequest$Filters": " Filters to scope the results. The following filters and logical operators are supported: <ul> <code>resourceArn</code> - The ARN of the license configuration resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>resourceAccount</code>
- The ID of the account that owns the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. "
}

},
"GetAccessTokenRequest": {
"base": null,
"refs": {
}
},
"GetAccessTokenResponse": {
"base": null,
"refs": {
}
},
"GetGrantRequest": {
"base": null,
"refs": {
}
},
"GetGrantResponse": {
"base": null,
"refs": {
}
},
"GetLicenseConfigurationRequest": {
"base": null,
"refs": {
}
},
"GetLicenseConfigurationResponse": {
"base": null,
"refs": {
}
},
"GetLicenseConversionTaskRequest": {
"base": null,
"refs": {
}
},
"GetLicenseConversionTaskResponse": {
"base": null,
"refs": {
}
},
"GetLicenseManagerReportGeneratorRequest": {
"base": null,
"refs": {
}
},
"GetLicenseManagerReportGeneratorResponse": {
"base":

null,
"refs": {
}
},
"GetLicenseRequest": {
"base": null,
"refs": {
}
},
"GetLicenseResponse": {
"base": null,
"refs": {
}
},
"GetLicenseUsageRequest": {
"base": null,
"refs": {
}
},
"GetLicenseUsageResponse": {
"base": null,
"refs": {
}
},
"GetServiceSettingsRequest": {
"base": null,
"refs": {
}
},
"GetServiceSettingsResponse": {
"base": null,
"refs": {
}
},
"Grant": {
"base": " Describes a grant. ",
"refs": {
"GetGrantResponse$Grant": " Grant details. ",
"GrantList$member": null
}
},
"GrantList": {
"base": null,
"refs": {
"ListDistributedGrantsResponse$Grants": " Distributed grant details. ",
"ListReceivedGrantsForOrganizationResponse$Grants": " Lists the grants the organization has received. ",
"ListReceivedGrantsResponse$Grants":

" Received grant details. "
    }
  },
  "GrantStatus": {
    "base": null,
    "refs": {
      "AcceptGrantResponse$Status": " Grant status. ",
      "CreateGrantResponse$Status": " Grant status. ",
      "CreateGrantVersionRequest$Status": " Grant status. ",
      "CreateGrantVersionResponse$Status": " Grant status. ",
      "DeleteGrantResponse$Status": " Grant status. ",
      "Grant$GrantStatus": " Grant status. ",
      "RejectGrantResponse$Status": " Grant status. "
    }
  },
  "GrantedLicense": {
    "base": " Describes a license that is granted to a grantee. ",
    "refs": {
      "GrantedLicenseList$member": null
    }
  },
  "GrantedLicenseList": {
    "base": null,
    "refs": {
      "ListReceivedLicensesForOrganizationResponse$Licenses": " Lists the licenses the organization has received. ",
      "ListReceivedLicensesResponse$Licenses": " Received license details. "
    }
  },
  "ISO8601DateTime": {
    "base": null,
    "refs": {
      "CheckoutBorrowLicenseResponse$IssuedAt": " Date and time at which the license checkout is issued. ",
      "CheckoutBorrowLicenseResponse$Expiration": " Date and time at which the license checkout expires. ",
      "CheckoutLicenseResponse$IssuedAt": " Date and time at which the license checkout is issued. ",
      "CheckoutLicenseResponse$Expiration": " Date and time at which the license checkout expires. ",
      "DatetimeRange$Begin": " Start of the time range. ",
      "DatetimeRange$End": " End of the time range. ",
      "DeleteLicenseResponse$DeletionDate": " Date when the license is deleted. ",
      "ExtendLicenseConsumptionResponse$Expiration": " Date and time at which the license consumption expires. ",
      "GrantedLicense$CreateTime": " Creation time of the granted license. ",
      "License$CreateTime": " License creation time. ",
      "TokenData$ExpirationTime": " Token expiration time, in ISO8601-UTC format. "

}
},
"Integer": {
"base": null,
"refs": {
"CreateTokenRequest$ExpirationInDays": " Token expiration, in days, counted from token creation. The default is 365 days. ",
"ReportFrequency$value": " Number of times within the frequency period that a report is generated. The only supported value is <code>1</code>. "
}
},
"InvalidParameterValueException": {
"base": " One or more parameter values are not valid. ",
"refs": {
}
},
"InvalidResourceStateException": {
"base": " License Manager cannot allocate a license to a resource because of its state. For example, you cannot allocate a license to an instance in the process of shutting down. ",
"refs": {
}
},
"InventoryFilter": {
"base": " An inventory filter. ",
"refs": {

"InventoryFilterList$member": null
}
},
"InventoryFilterCondition": {
"base": null,
"refs": {
"InventoryFilter$Condition": " Condition of the filter. "
}
},
"InventoryFilterList": {
"base": null,
"refs": {
"ListResourceInventoryRequest$Filters": " Filters to scope the results. The following filters and logical operators are supported: <ul> <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>application_name</code> - The name of the application. Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.   <code>license_included</code> - The type of license included. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. Possible values are <code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-web</code>
| <code>windows-server-datacenter</code>.   <code>platform</code> - The platform of the resource. Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.

<code>resource_id</code> - The ID of the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>tag:<key></code> - The key/value combination of a tag assigned to the resource. Logical operators are <code>EQUALS</code> (single account) or <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account). "
    }
  },
  "Issuer": {
    "base": " Details about the issuer of a license. ",
    "refs": {
      "CreateLicenseRequest$Issuer": " License issuer. ",
      "CreateLicenseVersionRequest$Issuer": " License issuer. "
    }
  },
  "IssuerDetails": {
    "base": " Details associated with the issuer of a license. ",
    "refs": {
      "GrantedLicense$Issuer": " Granted
license issuer. ",
      "License$Issuer": " License issuer. "
    }
  },
  "License": {
    "base": " Software license that is managed in License Manager. ",
    "refs": {
      "GetLicenseResponse$License": " License details. ",
      "LicenseList$member": null
    }
  },
  "LicenseConfiguration": {
    "base": " A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM must be associated with a host), and the number of licenses purchased and used. ",
    "refs": {
      "LicenseConfigurations$member": null
    }
  },
  "LicenseConfigurationAssociation": {
    "base": " Describes an association with a license configuration. ",
    "refs": {
      "LicenseConfigurationAssociations$member": null
    }
  },
  "LicenseConfigurationAssociations": {
    "base": null,
    "refs": {
      "ListAssociationsForLicenseConfigurationResponse$LicenseConfigurationAssociations": " Information about the associations for the license configuration. "

}
},
"LicenseConfigurationStatus": {
"base": null,
"refs": {
"UpdateLicenseConfigurationRequest$LicenseConfigurationStatus": " New status of the license configuration. "
}
},
"LicenseConfigurationUsage": {
"base": " Details about the usage of a resource associated with a license configuration. ",
"refs": {
"LicenseConfigurationUsageList$member": null
}
},
"LicenseConfigurationUsageList": {
"base": null,
"refs": {
"ListUsageForLicenseConfigurationResponse$LicenseConfigurationUsageList": " Information about the license configurations. "
}

},
"LicenseConfigurations": {
"base": null,
"refs": {
"ListLicenseConfigurationsResponse$LicenseConfigurations": " Information about the license configurations. "
}
},
"LicenseConversionContext": {
"base": " Information about a license type conversion task. ",
"refs": {
"CreateLicenseConversionTaskForResourceRequest$SourceLicenseContext": " Information that identifies the license type you are converting from. For the structure of the source license, see Convert a license type using the CLI in the License Manager User Guide. ",
"CreateLicenseConversionTaskForResourceRequest$DestinationLicenseContext": " Information that identifies the license type you are converting to. For the structure of the destination license, see Convert
a license type using the CLI in the License Manager User Guide. ",
"GetLicenseConversionTaskResponse$SourceLicenseContext": " Information about the license type converted from. ",
"GetLicenseConversionTaskResponse$DestinationLicenseContext": " Information about the license type converted to. ",
"LicenseConversionTask$SourceLicenseContext": " Information about the license type this conversion task converted from. ",

"LicenseConversionTask$DestinationLicenseContext": " Information about the license type this conversion task converted to. "
}
},
"LicenseConversionTask": {
"base": " Information about a license type conversion task. ",
"refs": {
"LicenseConversionTasks$member": null
}
},
"LicenseConversionTaskId": {
"base": null,
"refs": {
"CreateLicenseConversionTaskForResourceResponse$LicenseConversionTaskId": " The ID of the created license type conversion task. ",
"GetLicenseConversionTaskRequest$LicenseConversionTaskId": " ID of the license type conversion task to retrieve information on. ",
"GetLicenseConversionTaskResponse$LicenseConversionTaskId": " ID of the license type conversion task. ",
"LicenseConversionTask$LicenseConversionTaskId": " The ID of the license type conversion task. "
}
},
"LicenseConversionTaskStatus": {
"base": null,
"refs": {
"GetLicenseConversionTaskResponse$Status": " Status of the license type conversion task. ",
"LicenseConversionTask$Status": " The status of the conversion task. "
}
},
"LicenseConversionTasks": {
"base": null,
"refs": {
"ListLicenseConversionTasksResponse$LicenseConversionTasks": " Information about the license configuration tasks for your account. "
}
},
"LicenseCountingType": {
"base": null,
"refs": {
"CreateLicenseConfigurationRequest$LicenseCountingType": " Dimension used to track the license inventory. ",
"GetLicenseConfigurationResponse$LicenseCountingType": " Dimension for which the licenses are counted. ",
"LicenseConfiguration$LicenseCountingType": " Dimension to use to track the license inventory. "
}
},
"LicenseDeletionStatus": {

"base": null,
"refs": {
"DeleteLicenseResponse$Status": " License status. "
}
},
"LicenseList": {
"base": null,
"refs": {
"ListLicenseVersionsResponse$Licenses": " License details. ",
"ListLicensesResponse$Licenses": " License details. "
}
},
"LicenseOperationFailure": {
"base": " Describes the failure of a license operation. ",
"refs": {
"LicenseOperationFailureList$member": null
}
},
"LicenseOperationFailureList": {
"base":
null,
"refs": {
"ListFailuresForLicenseConfigurationOperationsResponse$LicenseOperationFailureList": " License configuration operations that failed. "
}
},
"LicenseSpecification": {
"base": " Details for associating a license configuration with a resource. ",
"refs": {
"LicenseSpecifications$member": null
}
},
"LicenseSpecifications": {
"base": null,
"refs": {
"ListLicenseSpecificationsForResourceResponse$LicenseSpecifications": " License configurations associated with a resource. ",
"UpdateLicenseSpecificationsForResourceRequest$AddLicenseSpecifications": " ARNs of the license configurations to add. ",
"UpdateLicenseSpecificationsForResourceRequest$RemoveLicenseSpecifications": " ARNs of the license configurations to remove. "
}
},
"LicenseStatus": {
"base": null,
"refs": {
"CreateLicenseResponse$Status": " License status. ",

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      "CreateLicenseVersionRequest$Status": "<p>License status.</p>",
      "CreateLicenseVersionResponse$Status": "<p>License status.</p>",
      "GrantedLicense$Status": "<p>Granted license status.</p>",
      "License$Status": "<p>License status.</p>"
    }
  },
  "LicenseUsage": {
    "base": "<p>Describes the entitlement usage associated with a license.</p>",
    "refs": {
      "GetLicenseUsageResponse$LicenseUsage": "<p>License usage details.</p>"
    }
  },
  "LicenseUsageException": {
    "base": "<p>You do not have enough licenses available to support a new resource launch.</p>",
    "refs": {
    }
  },
  "ListAssociationsForLicenseConfigurationRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListAssociationsForLicenseConfigurationResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListDistributedGrantsRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListDistributedGrantsResponse":
{
    "base": null,
    "refs": {
    }
  },
  "ListFailuresForLicenseConfigurationOperationsRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListFailuresForLicenseConfigurationOperationsResponse": {
    "base": null,
    "refs": {
    }
  },
```

"ListLicenseConfigurationsRequest": {
"base": null,
"refs": {
}
},
"ListLicenseConfigurationsResponse": {
"base": null,
"refs": {
}
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"ListLicenseConversionTasksRequest": {
"base": null,
"refs": {
}
},
"ListLicenseConversionTasksResponse": {
"base": null,
"refs": {
}
},
"ListLicenseManagerReportGeneratorsRequest": {
"base": null,
"refs": {
}
},
"ListLicenseManagerReportGeneratorsResponse": {
"base": null,
"refs": {
}
},
"ListLicenseSpecificationsForResourceRequest": {
"base": null,
"refs": {
}
},
"ListLicenseSpecificationsForResourceResponse":
{
"base": null,
"refs": {
}
},
"ListLicenseVersionsRequest": {
"base": null,
"refs": {
}
},
"ListLicenseVersionsResponse": {
"base": null,

"refs": {
}
},
"ListLicensesRequest": {
"base": null,
"refs": {
}
},
"ListLicensesResponse": {
"base": null,
"refs": {
}
},
"ListReceivedGrantsForOrganizationRequest": {
"base": null,
"refs": {
}
},
"ListReceivedGrantsForOrganizationResponse": {
"base": null,
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}
},
"ListReceivedGrantsRequest": {
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}
},
"ListReceivedGrantsResponse": {
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"ListReceivedLicensesForOrganizationRequest": {
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"ListReceivedLicensesForOrganizationResponse": {
"base": null,
"refs": {
}
},
"ListReceivedLicensesRequest":
{
"base": null,
"refs": {
}

},
"ListReceivedLicensesResponse": {
  "base": null,
  "refs": {
  }
},
"ListResourceInventoryRequest": {
  "base": null,
  "refs": {
  }
},
"ListResourceInventoryResponse": {
  "base": null,
  "refs": {
  }
},
"ListTagsForResourceRequest": {
  "base": null,
  "refs": {
  }
},
"ListTagsForResourceResponse": {
  "base": null,
  "refs": {
  }
},
"ListTokensRequest": {
  "base": null,
  "refs": {
  }
},
"ListTokensResponse": {
  "base": null,
  "refs": {
  }
},
"ListUsageForLicenseConfigurationRequest": {
  "base": null,
  "refs": {
  }
},
"ListUsageForLicenseConfigurationResponse": {
  "base": null,
  "refs": {
  }
},
"Location": {
  "base": null,

"refs": {
"RedirectException$Location": null
}
},
"Long":
{
"base": null,
"refs": {
"Entitlement$MaxCount": " Maximum entitlement count. Use if the unit is not None. "
}
},
"ManagedResourceSummary": {
"base": " Summary information about a managed resource. ",
"refs": {
"ManagedResourceSummaryList$member": null
}
},
"ManagedResourceSummaryList": {
"base": null,
"refs": {
"GetLicenseConfigurationResponse$ManagedResourceSummaryList": " Summaries of the managed resources. ",
"LicenseConfiguration$ManagedResourceSummaryList": " Summaries for managed resources. "
}
},
"MaxSize100": {
"base": null,
"refs": {
"ListDistributedGrantsRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListLicenseManagerReportGeneratorsRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListLicenseVersionsRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListLicensesRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListReceivedGrantsForOrganizationRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListReceivedGrantsRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListReceivedLicensesForOrganizationRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListReceivedLicensesRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListTokensRequest$MaxResults": " Maximum number of results to return in a single call. "
}
},
"MaxSize3StringList": {
"base": null,
"refs": {
"CreateTokenRequest$TokenProperties": " Data specified by the caller to be included in the JWT token. The data is mapped to the amr claim of the JWT token. ",

"GetAccessTokenRequest$TokenProperties": " Token properties to validate against those present in the JWT token. ",
"TokenData$TokenProperties": " Data specified by the caller. "
}
},
"Message": {
"base": null,
"refs": {
"AccessDeniedException$Message": null,
"AuthorizationException$Message": null,
"ConflictException$Message": null,
"EntitlementNotAllowedException$Message": null,
"FailedDependencyException$Message": null,
"FilterLimitExceededException$Message": null,
"InvalidParameterValueException$Message": null,
"InvalidResourceStateException$Message": null,
"LicenseUsageException$Message": null,
"NoEntitlementsAllowedException$Message": null,
"RateLimitExceededException$Message": null,
"RedirectException$Message": null,
"ResourceLimitExceededException$Message": null,
"ResourceNotFoundException$Message": null,
"ServerInternalException$Message": null,
"UnsupportedDigitalSignatureMethodException$Message": null,
"ValidationException$Message": null
}
},
"Metadata": {
"base": " Describes key/value pairs. ",
"refs": {
"MetadataList$member": null
}
},
"MetadataList": {
"base": null,
"refs": {
"CheckoutBorrowLicenseRequest$CheckoutMetadata": " Information about constraints. ",
"CheckoutBorrowLicenseResponse$CheckoutMetadata": " Information about constraints. ",
"CreateLicenseRequest$LicenseMetadata": " Information about the license. ",
"CreateLicenseVersionRequest$LicenseMetadata": " Information about the license. ",
"GrantedLicense$LicenseMetadata": " Granted license metadata. ",
"License$LicenseMetadata": " License metadata. ",
"LicenseOperationFailure$MetadataList": " Reserved. "
}
},
"NoEntitlementsAllowedException": {

"base": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"refs": {
}
},
"Options": {
"base": " The options you can specify when you create a new version of a grant, such as activation override behavior. For more information, see Granted licenses in License Manager in the License Manager User Guide. ",
"refs": {
"CreateGrantVersionRequest$Options": " The options specified for the grant. ",
"Grant$Options": " The options specified for the grant. "
}
},
"OrganizationConfiguration": {
"base": " Configuration information for Organizations. ",
"refs": {
"GetServiceSettingsResponse$OrganizationConfiguration": " Indicates whether Organizations is integrated with License Manager for cross-account discovery. ",
"UpdateServiceSettingsRequest$OrganizationConfiguration":
" Enables integration with Organizations for cross-account discovery. "
}
},
"PrincipalArnList": {
"base": null,
"refs": {
"CreateGrantRequest$Principals": " The grant principals. You can specify one of the following as an Amazon Resource Name (ARN): <ul> An Amazon Web Services account, which includes only the account specified.   An organizational unit (OU), which includes all accounts in the OU.   An organization, which will include all accounts across your organization. "
}
},
"ProductInformation": {
"base": " Describes product information for a license configuration. ",
"refs": {
"ProductInformationList$member": null
}
},
"ProductInformationFilter": {
"base": " Describes product information filters. ",
"refs": {
"ProductInformationFilterList$member":
null
}
},
"ProductInformationFilterList": {

"base": null,
"refs": {
"ProductInformation$ProductInformationFilterList": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. The following filters and are supported when the resource type is <code>SSM_MANAGED</code>: <ul> <code>Application Name</code> - The name of the application. Logical operator is <code>EQUALS</code>.   <code>Application Publisher</code> - The publisher of the application. Logical operator is <code>EQUALS</code>.   <code>Application Version</code> - The version of the application. Logical operator is <code>EQUALS</code>.   <code>Platform Name</code> - The name of the platform. Logical operator is <code>EQUALS</code>.   <code>Platform Type</code> - The platform type. Logical operator is <code>EQUALS</code>.   <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.   <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>.   <code>License Included</code> - The type of license included. Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>. Possible values are: <code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-web</code> | <code>windows-server-datacenter</code>.   The following filters and logical operators are supported when the resource type is <code>RDS</code>: <ul> <code>Engine Edition</code> - The edition of the database engine. Logical operator is <code>EQUALS</code>. Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>.   <code>License Pack</code> - The license pack. Logical operator is <code>EQUALS</code>. Possible values are: <code>data guard</code> | <code>diagnostic pack sqlt</code> | <code>tuning pack sqlt</code> | <code>ols</code> | <code>olap</code>. "
}
},
"ProductInformationList": {
"base": null,
"refs": {
"CreateLicenseConfigurationRequest$ProductInformationList": " Product information. ",
"GetLicenseConfigurationResponse$ProductInformationList": " Product information. ",
"LicenseConfiguration$ProductInformationList": " Product information. ",
"UpdateLicenseConfigurationRequest$ProductInformationList": " New product information. "
}
},
"ProvisionalConfiguration": {
"base": " Details about a provisional configuration. ",
"refs": {
"ConsumptionConfiguration$ProvisionalConfiguration": " Details about a provisional configuration. "
}
},

"RateLimitExceededException": {
"base": " Too many requests have been submitted. Try again after a brief wait. ",
"refs": {
}
},
"ReceivedMetadata": {
"base": " Metadata associated with received licenses and grants. ",
"refs": {
"GrantedLicense$ReceivedMetadata": " Granted license received metadata. "
}
},
"ReceivedStatus": {
"base": null,
"refs": {
"ReceivedMetadata$ReceivedStatus": " Received status. "
}
},
"RedirectException": {
"base": " This is not the correct Region for the resource. Try again. ",
"refs": {
}
},
"RejectGrantRequest": {
"base": null,
"refs": {
}
},
"RejectGrantResponse": {
"base": null,
"refs": {
}
},
"RenewType": {
"base": null,
"refs": {
"ConsumptionConfiguration$RenewType": " Renewal frequency. "
}
},
"ReportContext": {
"base": " Details of the license configuration that this generator reports on. ",
"refs": {
"CreateLicenseManagerReportGeneratorRequest$ReportContext": " Defines the type of license configuration the report generator tracks. ",
"ReportGenerator$ReportContext": " License configuration type for this generator. ",
"UpdateLicenseManagerReportGeneratorRequest$ReportContext": " The report context. "
}
},

"ReportFrequency": {
"base": " Details about how frequently reports are generated. ",
"refs": {
"CreateLicenseManagerReportGeneratorRequest$ReportFrequency": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"ReportGenerator$ReportFrequency": " Details about how frequently reports are generated. ",
"UpdateLicenseManagerReportGeneratorRequest$ReportFrequency": " Frequency by which reports are generated. "
}
},
"ReportFrequencyType": {
"base": null,
"refs": {
"ReportFrequency$period": " Time period between each report. The period can be daily, weekly, or monthly. "
}
},
"ReportGenerator": {
"base": " Describe the details of a report generator. ",
"refs": {
"GetLicenseManagerReportGeneratorResponse$ReportGenerator": " A report generator that creates periodic reports about your license configurations. ",
"ReportGeneratorList$member": null
}
},
"ReportGeneratorList": {
"base": null,
"refs": {
"ListLicenseManagerReportGeneratorsResponse$ReportGenerators": " A report generator that creates periodic reports about your license configurations. "
}
},
"ReportGeneratorName": {
"base": null,
"refs": {
"CreateLicenseManagerReportGeneratorRequest$ReportGeneratorName": " Name of the report generator. ",
"UpdateLicenseManagerReportGeneratorRequest$ReportGeneratorName": " Name of the report generator. "
}
},
"ReportType": {
"base": null,
"refs": {
"ReportTypeList$member": null
}
},
"ReportTypeList": {

"base": null,
"refs": {
"CreateLicenseManagerReportGeneratorRequest$Type": " Type of reports to generate. The following report types an
be generated: <ul> License configuration report - Reports the number and details of consumed licenses for a license configuration.   Resource report - Reports the tracked licenses and resource consumption for a license configuration. ",
"ReportGenerator$ReportType": " Type of reports that are generated. ",
"UpdateLicenseManagerReportGeneratorRequest$Type": " Type of reports to generate. The following report types are supported: <ul> License configuration report - Reports the number and details of consumed licenses for a license configuration.   Resource report - Reports the tracked licenses and resource consumption for a license configuration. "
}
},
"ResourceInventory": {
"base": " Details about a resource. ",
"refs": {
"ResourceInventoryList$member": null
}
},
"ResourceInventoryList": {
"base": null,
"refs": {
"ListResourceInventoryResponse$ResourceInventoryList": " Information about the resources. "
}
},
"ResourceLimitExceededException": {
"base": " Your resource limits have been exceeded. ",
"refs": {
}
},
"ResourceNotFoundException": {
"base": " The resource cannot be found. ",
"refs": {
}
},
"ResourceType": {
"base": null,
"refs": {
"ConsumedLicenseSummary$ResourceType": " Resource type of the resource consuming a license. ",
"LicenseConfigurationAssociation$ResourceType": " Type of server resource. ",
"LicenseConfigurationUsage$ResourceType": " Type of resource. ",
"LicenseOperationFailure$ResourceType": " Resource type. ",
"ManagedResourceSummary$ResourceType": " Type of resource associated with a license. ",
"ResourceInventory$ResourceType": " Type of resource. "
}
},
"S3Location": {

"base":
" Details of the S3 bucket that report generator reports are published to. ",
"refs": {
"ReportGenerator$S3Location": " Details of the S3 bucket that report generator reports are published to. "
}
},
"ServerInternalException": {
"base": " The server experienced an internal error. Try again. ",
"refs": {
}
},
"SignedToken": {
"base": null,
"refs": {
"CheckoutBorrowLicenseResponse$SignedToken": " Signed token. ",
"CheckoutLicenseResponse$SignedToken": " Signed token. "
}
},
"StatusReasonMessage": {
"base": null,
"refs": {
"CreateGrantVersionRequest$StatusReason": " Grant status reason. ",
"DeleteGrantRequest$StatusReason": " The Status reason for the delete request. ",
"Grant$StatusReason": " Grant status reason. ",
"ReceivedMetadata$ReceivedStatusReason": " Received status reason. "
}
},

"String": {
"base": null,
"refs": {
"AcceptGrantResponse$Version": " Grant version. ",
"CheckInLicenseRequest$LicenseConsumptionToken": " License consumption token. ",
"CheckInLicenseRequest$Beneficiary": " License beneficiary. ",
"CheckoutBorrowLicenseRequest$NodeId": " Node ID. ",
"CheckoutBorrowLicenseResponse$LicenseConsumptionToken": " License consumption token. ",
"CheckoutBorrowLicenseResponse$NodeId": " Node ID. ",
"CheckoutLicenseRequest$ProductSKU": " Product SKU. ",
"CheckoutLicenseRequest$KeyFingerprint": " Key fingerprint identifying the license. ",
"CheckoutLicenseRequest$Beneficiary": " License beneficiary. ",
"CheckoutLicenseRequest$NodeId": " Node ID. ",
"CheckoutLicenseResponse$LicenseConsumptionToken": " License consumption token. ",
"CheckoutLicenseResponse$NodeId": " Node ID. ",
"CheckoutLicenseResponse$LicenseArn":
" Amazon Resource Name (ARN) of the checkout license. ",
"CreateGrantRequest$GrantName": " Grant name. ",
"CreateGrantRequest$HomeRegion": " Home Region of the grant. ",

"CreateGrantResponse$Version": " Grant version. ",
"CreateGrantVersionRequest$GrantName": " Grant name. ",
"CreateGrantVersionRequest$SourceVersion": " Current version of the grant. ",
"CreateGrantVersionResponse$Version": " New version of the grant. ",
"CreateLicenseConfigurationRequest$Name": " Name of the license configuration. ",
"CreateLicenseConfigurationRequest$Description": " Description of the license configuration. ",
"CreateLicenseConfigurationResponse$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the license configuration. ",
"CreateLicenseManagerReportGeneratorRequest$Description": " Description of the report generator. ",
"CreateLicenseManagerReportGeneratorResponse$LicenseManagerReportGeneratorArn": " The Amazon Resource Name (ARN) of the new report generator. ",
"CreateLicenseRequest$LicenseName": " License name. ",
"CreateLicenseRequest$ProductName": " Product name. ",
"CreateLicenseRequest$ProductSKU": " Product SKU. ",
"CreateLicenseRequest$HomeRegion": " Home Region for the license. ",
"CreateLicenseRequest$Beneficiary": " License beneficiary. ",
"CreateLicenseResponse$Version": " License version. ",
"CreateLicenseVersionRequest$LicenseName": " License name. ",
"CreateLicenseVersionRequest$ProductName": " Product name. ",
"CreateLicenseVersionRequest$HomeRegion": " Home Region of the license. ",
"CreateLicenseVersionRequest$SourceVersion": " Current version of the license. ",
"CreateLicenseVersionResponse$Version": " New version of the license. ",
"CreateTokenResponse$TokenId": " Token ID. ",
"DeleteGrantRequest$Version": " Current version of the grant. ",
"DeleteGrantResponse$Version": " Grant version. ",
"DeleteLicenseConfigurationRequest$LicenseConfigurationArn": " ID of the license configuration. ",
"DeleteLicenseManagerReportGeneratorRequest$LicenseManagerReportGeneratorArn": " Amazon Resource Name (ARN) of the report generator to be deleted. ",
"DeleteLicenseRequest$SourceVersion": " Current version of the license. ",
"DeleteTokenRequest$TokenId": " Token ID. ",
"Entitlement$Name": " Entitlement name. ",
"Entitlement$Value": " Entitlement resource. Use only if the unit is None. ",
"EntitlementData$Name": " Entitlement data name. ",
"EntitlementData$Value": " Entitlement data value. ",
"EntitlementUsage$Name": " Entitlement usage name. ",
"EntitlementUsage$ConsumedValue": " Resource usage consumed. ",
"EntitlementUsage$MaxCount": " Maximum entitlement usage count. ",
"ExtendLicenseConsumptionRequest$LicenseConsumptionToken": " License consumption token. ",
"ExtendLicenseConsumptionResponse$LicenseConsumptionToken": " License consumption token. ",
"FailedDependencyException$ErrorCode": null,
"GetGrantRequest$Version": " Grant version. ",
"GetLicenseConfigurationRequest$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the license configuration. ",
"GetLicenseConfigurationResponse$LicenseConfigurationId": " Unique ID for the license configuration. ",
"GetLicenseConfigurationResponse$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the

license configuration. ",
"GetLicenseConfigurationResponse$Name": " Name of the license configuration. ",
"GetLicenseConfigurationResponse$Description": " Description of the license configuration. ",
"GetLicenseConfigurationResponse$Status": " License configuration status. ",
"GetLicenseConfigurationResponse$OwnerAccountId": " Account ID of the owner of the license configuration. ",
"GetLicenseConversionTaskResponse$ResourceArn": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. ",
"GetLicenseConversionTaskResponse$StatusMessage": " The status message for the conversion task. ",
"GetLicenseManagerReportGeneratorRequest$LicenseManagerReportGeneratorArn": " Amazon Resource Name (ARN) of the report generator. ",
"GetLicenseRequest$Version": " License version. ",
"GetServiceSettingsResponse$S3BucketArn": " Regional S3 bucket path for storing reports, license trail event data, discovery data, and so on. ",
"GetServiceSettingsResponse$SnsTopicArn": " SNS topic configured to receive notifications from License Manager. ",
"GetServiceSettingsResponse$LicenseManagerResourceShareArn": " Amazon Resource Name (ARN) of the resource share. The License Manager management account provides member accounts with access to this share. ",
"Grant$GrantName": " Grant name. ",
"Grant$HomeRegion": " Home Region of the grant. ",
"Grant$Version": " Grant version. ",
"GrantedLicense$LicenseName": " License name. ",
"GrantedLicense$ProductName": " Product name. ",
"GrantedLicense$ProductSKU": " Product SKU. ",
"GrantedLicense$HomeRegion": " Home Region of the granted license. ",
"GrantedLicense$Beneficiary": " Granted license beneficiary. ",
"GrantedLicense$Version": " Version of the granted license. ",
"InventoryFilter$Name": " Name of the filter. ",
"InventoryFilter$Value": " Value of the filter. ",
"Issuer$Name": " Issuer name. ",
"Issuer$SignKey": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm. ",
"IssuerDetails$Name": " Issuer name. ",
"IssuerDetails$SignKey": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm. ",
"IssuerDetails$KeyFingerprint": " Issuer key fingerprint. ",
"License$LicenseName": " License name. ",
"License$ProductName": " Product name. ",
"License$ProductSKU": " Product SKU. ",
"License$HomeRegion": " Home Region of the license. ",
"License$Beneficiary": " License beneficiary. ",
"License$Version": " License version. ",
"LicenseConfiguration$LicenseConfigurationId": " Unique ID of the license configuration. ",
"LicenseConfiguration$LicenseConfigurationArn":

" Amazon Resource Name (ARN) of the license configuration. ",
"LicenseConfiguration$Name": " Name of the license configuration. ",
"LicenseConfiguration$Description": " Description of the license configuration. ",
"LicenseConfiguration$Status": " Status of the license configuration. ",
"LicenseConfiguration$OwnerAccountId": " Account ID of the license configuration's owner. ",
"LicenseConfigurationAssociation$ResourceArn": " Amazon Resource Name (ARN) of the resource. ",
"LicenseConfigurationAssociation$ResourceOwnerId": " ID of the Amazon Web Services account that owns the resource consuming licenses. ",
"LicenseConfigurationAssociation$AmiAssociationScope": " Scope of AMI associations. The possible value is <code>cross-account</code>. ",
"LicenseConfigurationUsage$ResourceArn": " Amazon Resource Name (ARN) of the resource. ",
"LicenseConfigurationUsage$ResourceStatus":
" Status of the resource. ",
"LicenseConfigurationUsage$ResourceOwnerId": " ID of the account that owns the resource. ",
"LicenseConversionTask$ResourceArn": " The Amazon Resource Name (ARN) of the resource associated with the license type conversion task. ",
"LicenseConversionTask$StatusMessage": " The status message for the conversion task. ",
"LicenseOperationFailure$ResourceArn": " Amazon Resource Name (ARN) of the resource. ",
"LicenseOperationFailure$ErrorMessage": " Error message. ",
"LicenseOperationFailure$OperationName": " Name of the operation. ",
"LicenseOperationFailure$ResourceOwnerId": " ID of the Amazon Web Services account that owns the resource. ",
"LicenseOperationFailure$OperationRequestedBy": " The requester is \"License Manager Automated Discovery\". ",
"LicenseSpecification$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the license configuration. ",
"LicenseSpecification$AmiAssociationScope": " Scope of AMI associations. The possible value is <code>cross-account</code>. ",
"ListAssociationsForLicenseConfigurationRequest$LicenseConfigurationArn": " Amazon Resource Name (ARN) of a license configuration. ",
"ListAssociationsForLicenseConfigurationRequest$NextToken": " Token for the next set of results. ",
"ListAssociationsForLicenseConfigurationResponse$NextToken": " Token for the next set of results. ",
"ListDistributedGrantsRequest$NextToken": " Token for the next set of results. ",
"ListDistributedGrantsResponse$NextToken": " Token for the next set of results. ",
"ListFailuresForLicenseConfigurationOperationsRequest$LicenseConfigurationArn": " Amazon Resource Name of the license configuration. ",
"ListFailuresForLicenseConfigurationOperationsRequest$NextToken": " Token for the next set of results. ",

"ListFailuresForLicenseConfigurationOperationsResponse$NextToken": " Token for the next set of results. ",
"ListLicenseConfigurationsRequest$NextToken": " Token for the next set of results. ",
"ListLicenseConfigurationsResponse$NextToken": " Token for the next set of results. ",
"ListLicenseConversionTasksRequest$NextToken": " Token for the next set of results. ",
"ListLicenseConversionTasksResponse$NextToken": " Token for the next set of results. ",
"ListLicenseManagerReportGeneratorsRequest$NextToken": " Token for the next set of results. ",
"ListLicenseManagerReportGeneratorsResponse$NextToken": " Token for the next set of results. ",
"ListLicenseSpecificationsForResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of a

resource that has an associated license configuration. ",
"ListLicenseSpecificationsForResourceRequest$NextToken": " Token for the next set of results. ",
"ListLicenseSpecificationsForResourceResponse$NextToken": " Token for the next set of results. ",
"ListLicenseVersionsRequest$NextToken": " Token for the next set of results. ",
"ListLicenseVersionsResponse$NextToken": " Token for the next set of results. ",
"ListLicensesRequest$NextToken": " Token for the next set of results. ",
"ListLicensesResponse$NextToken": " Token for the next set of results. ",
"ListReceivedGrantsForOrganizationRequest$NextToken": " Token for the next set of results. ",
"ListReceivedGrantsForOrganizationResponse$NextToken": " Token for the next set of results. ",
"ListReceivedGrantsRequest$NextToken": " Token for the next set of results. ",
"ListReceivedGrantsResponse$NextToken": " Token for the next set of results. ",
"ListReceivedLicensesForOrganizationRequest$NextToken": " Token for the next set of results. ",
"ListReceivedLicensesForOrganizationResponse$NextToken":
" Token for the next set of results. ",
"ListReceivedLicensesRequest$NextToken": " Token for the next set of results. ",
"ListReceivedLicensesResponse$NextToken": " Token for the next set of results. ",
"ListResourceInventoryRequest$NextToken": " Token for the next set of results. ",
"ListResourceInventoryResponse$NextToken": " Token for the next set of results. ",
"ListTagsForResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of the license configuration. ",
"ListTokensRequest$NextToken": " Token for the next set of results. ",
"ListTokensResponse$NextToken": " Token for the next set of results. ",
"ListUsageForLicenseConfigurationRequest$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the license configuration. ",
"ListUsageForLicenseConfigurationRequest$NextToken": " Token for the next set of results. ",
"ListUsageForLicenseConfigurationResponse$NextToken": " Token for the next set of results. ",
"MaxSize3StringList$member": null,
"Metadata$Name": " The key name. ",
"Metadata$Value": " The value. ",
"ProductInformation$ResourceType": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"ProductInformationFilter$ProductInformationFilterName": " Filter name. ",
"ProductInformationFilter$ProductInformationFilterComparator": " Logical operator. ",
"RejectGrantResponse$Version": " Grant version. ",
"ReportGenerator$ReportGeneratorName": " Name of the report generator. ",
"ReportGenerator$LicenseManagerReportGeneratorArn": " Amazon Resource Name (ARN) of the report generator. ",
"ReportGenerator$LastRunStatus": " Status of the last report generation attempt. ",
"ReportGenerator$LastRunFailureReason": " Failure
message for the last report generation attempt. ",
"ReportGenerator$LastReportGenerationTime": " Time the last report was generated at. ",
"ReportGenerator$ReportCreatorAccount": " The Amazon Web Services account ID used to create the report generator. ",
"ReportGenerator$Description": " Description of the report generator. ",
"ReportGenerator$CreateTime": " Time the report was created. ",
"ResourceInventory$ResourceId": " ID of the resource. ",
"ResourceInventory$ResourceArn": " Amazon Resource Name (ARN) of the resource. ",
"ResourceInventory$Platform": " Platform of the resource. ",

"ResourceInventory$PlatformVersion": " Platform version of the resource in the inventory. ",
"ResourceInventory$ResourceOwningAccountId": " ID of the account that owns the resource. ",
"S3Location$bucket": " Name of the S3 bucket reports are published to. ",

"S3Location$keyPrefix": " Prefix of the S3 bucket reports are published to. ",
"StringList$member": null,
"Tag$Key": " Tag key. ",
"Tag$Value": " Tag value. ",
"TagKeyList$member": null,
"TagResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of the license configuration. ",
"TokenData$TokenId": " Token ID. ",
"TokenData$TokenType": " Type of token generated. The supported value is <code>REFRESH_TOKEN</code>. ",
"TokenData$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"TokenData$Status": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. ",
"UntagResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of the license configuration. ",
"UpdateLicenseConfigurationRequest$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the license configuration. ",
"UpdateLicenseConfigurationRequest$Name": " New name of the license configuration. ",
"UpdateLicenseConfigurationRequest$Description": " New description of the license configuration. ",
"UpdateLicenseManagerReportGeneratorRequest$LicenseManagerReportGeneratorArn": " Amazon Resource Name (ARN) of the report generator to update. ",
"UpdateLicenseManagerReportGeneratorRequest$Description": " Description of the report generator. ",
"UpdateLicenseSpecificationsForResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of the Amazon Web Services resource. ",
"UpdateServiceSettingsRequest$S3BucketArn": " Amazon Resource Name (ARN) of the Amazon S3 bucket where the License Manager information is stored. ",
"UpdateServiceSettingsRequest$SnsTopicArn": " Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
}
},
"StringList": {
"base": null,
"refs": {
"CreateLicenseConfigurationRequest$LicenseRules": " License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules vary by dimension, as follows.   <code>Cores</code> dimension: <code>allowedTenancy</code> | <code>licenseAffinityToHost</code> | <code>maximumCores</code> | <code>minimumCores</code>   <code>Instances</code> dimension: <code>allowedTenancy</code> | <code>maximumCores</code> | <code>minimumCores</code> | <code>maximumSockets</code> | <code>minimumSockets</code> | <code>maximumVcpus</code> | <code>minimumVcpus</code>   <code>Sockets</code> dimension: <code>allowedTenancy</code> | <code>licenseAffinityToHost</code> | <code>maximumSockets</code> | <code>minimumSockets</code>   <code>vCPUs</code> dimension: <code>allowedTenancy</code> | <code>honorVcpuOptimization</code> | <code>maximumVcpus</code> |

<code>minimumVcpus</code>   The unit for <code>licenseAffinityToHost</code>
 is days and the range is 1 to 180. The possible values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are <code>True</code> and <code>False</code>. ",
      "GetLicenseConfigurationResponse$LicenseRules": " License rules. ",
      "LicenseConfiguration$LicenseRules": " License rules. ",
      "ListLicenseConfigurationsRequest$LicenseConfigurationArns": " Amazon Resource Names (ARN) of the license configurations. ",
      "ListTokensRequest$TokenIds": " Token IDs. ",
      "ProductInformationFilter$ProductInformationFilterValue": " Filter value. ",
      "UpdateLicenseConfigurationRequest$LicenseRules": " New license rule. The only rule that you can add after you create a license configuration is licenseAffinityToHost. "
    }
  },
  "Tag": {
    "base": " Details about a tag
 for a license configuration. ",
    "refs": {
      "TagList$member": null
    }
  },
  "TagKeyList": {
    "base": null,
    "refs": {
      "UntagResourceRequest$TagKeys": " Keys identifying the tags to remove. "
    }
  },
  "TagList": {
    "base": null,
    "refs": {
      "CreateLicenseConfigurationRequest$Tags": " Tags to add to the license configuration. ",
      "CreateLicenseManagerReportGeneratorRequest$Tags": " Tags to add to the report generator. ",
      "GetLicenseConfigurationResponse$Tags": " Tags for the license configuration. ",
      "ListTagsForResourceResponse$Tags": " Information about the tags. ",
      "ReportGenerator$Tags": " Tags associated with the report generator. ",
      "TagResourceRequest$Tags": " One or more tags. "
    }
  },
  "TagResourceRequest": {
    "base": null,
    "refs": {
    }
  },
  "TagResourceResponse": {
    "base": null,
    "refs": {

```
    }
  },
  "TokenData": {
    "base": "<p>Describes a token.</p>",
    "refs": {
      "TokenList$member": null
    }
  },
  "TokenList": {
    "base": null,
    "refs": {
      "ListTokensResponse$Tokens": "<p>Received token details.</p>"
    }
  },
  "TokenString": {
    "base": null,
    "refs": {
      "CreateTokenResponse$Token": "<p>Refresh token, encoded as a JWT token.</p>",
      "GetAccessTokenRequest$Token": "<p>Refresh token, encoded as a JWT token.</p>",
      "GetAccessTokenResponse$AccessToken": "<p>Temporary access token.</p>"
    }
  },
  "TokenType": {
    "base": null,
    "refs": {
      "CreateTokenResponse$TokenType": "<p>Token type.</p>"
    }
  },
  "UnsupportedDigitalSignatureMethodException": {
    "base": "<p>The digital signature method is unsupported. Try your request again.</p>",
    "refs": {
    }
  },
  "UntagResourceRequest": {
    "base": null,
    "refs": {
    }
  },
  "UntagResourceResponse":
{
    "base": null,
    "refs": {
    }
  },
  "UpdateLicenseConfigurationRequest": {
    "base": null,
    "refs": {
    }
```

},
"UpdateLicenseConfigurationResponse": {
"base": null,
"refs": {
}
},
"UpdateLicenseManagerReportGeneratorRequest": {
"base": null,
"refs": {
}
},
"UpdateLicenseManagerReportGeneratorResponse": {
"base": null,
"refs": {
}
},
"UpdateLicenseSpecificationsForResourceRequest": {
"base": null,
"refs": {
}
},
"UpdateLicenseSpecificationsForResourceResponse": {
"base": null,
"refs": {
}
},
"UpdateServiceSettingsRequest": {
"base": null,
"refs": {
}
},
"UpdateServiceSettingsResponse": {
"base": null,
"refs": {
}
},
"UsageOperation": {
"base": null,
"refs": {
"LicenseConversionContext$UsageOperation": " The Usage operation value
that corresponds to the license type you are converting your resource from. For more information about which
platforms correspond to which usage operation values see <a
href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-fields.html#billing-info\">Sample
data: usage operation by platform "
}
},
"ValidationException": {
"base": " The provided input is not valid. Try your request again. ",

```
    "refs": {
    }
  }
 }
}
{
  "testCases": [
    {
      "documentation": "For region af-south-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.af-south-1.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "af-south-1"
      }
    },
    {
      "documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-east-1.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "ap-east-1"
      }
    },
    {
      "documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",

    "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-northeast-1.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "ap-northeast-1"
      }
    },
    {
```

"documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-northeast-2.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "ap-northeast-2"
}
},
{
"documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-northeast-3.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "ap-northeast-3"
}
},
{
"documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-south-1.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "ap-south-1"
}
},
{
"documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-southeast-1.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack":

false,
            "Region": "ap-southeast-1"
        }
    },
    {
        "documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.ap-southeast-2.amazonaws.com"
            }
        },
        "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Region": "ap-southeast-2"
        }
    },
    {
        "documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.ap-southeast-3.amazonaws.com"
            }
        },
        "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Region": "ap-southeast-3"
        }
    },
    {
        "documentation":
"For region ca-central-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.ca-central-1.amazonaws.com"
            }
        },
        "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Region": "ca-central-1"
        }
    },
    {
        "documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {

"url": "https://license-manager.eu-central-1.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "eu-central-1"
}
},
{
"documentation": "For region eu-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint":
{
"url": "https://license-manager.eu-north-1.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "eu-north-1"
}
},
{
"documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-south-1.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "eu-south-1"
}
},
{
"documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-west-1.amazonaws.com"
}
},
"params":
{
"UseFIPS": false,
"UseDualStack": false,
"Region": "eu-west-1"

```
        }
    },
    {
        "documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.eu-west-2.amazonaws.com"
            }
        },
        "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Region": "eu-west-2"
        }
    },
    {
        "documentation": "For region eu-west-3 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.eu-west-3.amazonaws.com"
            }
        },
        "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Region": "eu-west-3"
        }

},
    {
        "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.me-south-1.amazonaws.com"
            }
        },
        "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Region": "me-south-1"
        }
    },
    {
        "documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.sa-east-1.amazonaws.com"
            }
```

```
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": false,
      "Region": "sa-east-1"
    }
  },
  {
    "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
    "expect": {

    "endpoint": {
        "url": "https://license-manager.us-east-1.amazonaws.com"
      }
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": false,
      "Region": "us-east-1"
    }
  },
  {
    "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-fips.us-east-1.amazonaws.com"
      }
    },
    "params": {
      "UseFIPS": true,
      "UseDualStack": false,
      "Region": "us-east-1"
    }
  },
  {
    "documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.us-east-2.amazonaws.com"
      }
    },

  "params": {
      "UseFIPS": false,
      "UseDualStack": false,
      "Region": "us-east-2"
    }
  },
```

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    {
      "documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-fips.us-east-2.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": true,
        "UseDualStack": false,
        "Region": "us-east-2"
      }
    },
    {
      "documentation": "For region us-west-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.us-west-1.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "us-west-1"

  }
    },
    {
      "documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-fips.us-west-1.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": true,
        "UseDualStack": false,
        "Region": "us-west-1"
      }
    },
    {
      "documentation": "For region us-west-2 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.us-west-2.amazonaws.com"
        }
      },
      "params": {
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"UseFIPS": false,
"UseDualStack": false,
"Region": "us-west-2"
}
},
{
"documentation": "For region us-west-2 with FIPS enabled and DualStack disabled",
"expect":
{
"endpoint": {
"url": "https://license-manager-fips.us-west-2.amazonaws.com"
}
},
"params": {
"UseFIPS": true,
"UseDualStack": false,
"Region": "us-west-2"
}
},
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-east-1.api.aws"
}
},
"params": {
"UseFIPS": true,
"UseDualStack": true,
"Region": "us-east-1"
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-east-1.api.aws"
}
},

"params": {
"UseFIPS": false,
"UseDualStack": true,
"Region": "us-east-1"
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",

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    "expect": {
        "endpoint": {
            "url": "https://license-manager.cn-north-1.amazonaws.com.cn"
        }
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "cn-north-1"
    }
},
{
    "documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
        }
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "cn-northwest-1"
    }
},
{
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
        }
    },
    "params": {
        "UseFIPS": true,
        "UseDualStack": true,
        "Region": "cn-north-1"
    }
},
{
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
        }
    },
    "params": {
        "UseFIPS": true,
        "UseDualStack": false,
        "Region": "cn-north-1"
```

```
        }
    },
    {
        "documentation": "For region cn-north-1 with FIPS disabled
and DualStack enabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
            }
        },
        "params": {
            "UseFIPS": false,
            "UseDualStack": true,
            "Region": "cn-north-1"
        }
    },
    {
        "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.us-gov-east-1.amazonaws.com"
            }
        },
        "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Region": "us-gov-east-1"
        }
    },
    {
        "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
             }
        },
        "params": {
            "UseFIPS": true,
            "UseDualStack": false,
            "Region": "us-gov-east-1"
        }
    },
    {
        "documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.us-gov-west-1.amazonaws.com"
            }
```

```
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": false,
      "Region": "us-gov-west-1"
    }
  },
  {
    "documentation": "For region us-gov-west-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
      }
    },
    "params": {

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      "UseDualStack": false,
      "Region": "us-gov-west-1"
    }
  },
  {
    "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-fips.us-gov-east-1.api.aws"
      }
    },
    "params": {
      "UseFIPS": true,
      "UseDualStack": true,
      "Region": "us-gov-east-1"
    }
  },
  {
    "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.us-gov-east-1.api.aws"
      }
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": true,
      "Region": "us-gov-east-1"
    }
```

```
},
  {
    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
      }
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": false,
      "Region": "us-iso-east-1"
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
    },
    "params": {
      "UseFIPS": true,
      "UseDualStack": true,
      "Region": "us-iso-east-1"
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
    "expect": {

 "endpoint": {
        "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
      }
    },
    "params": {
      "UseFIPS": true,
      "UseDualStack": false,
      "Region": "us-iso-east-1"
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
      "error": "DualStack is enabled but this partition does not support DualStack"
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": true,
      "Region": "us-iso-east-1"
```

```
        }
    },
    {
        "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
            }
        },
        "params":
{
            "UseFIPS": false,
            "UseDualStack": false,
            "Region": "us-isob-east-1"
        }
    },
    {
        "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
        "expect": {
            "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
        },
        "params": {
            "UseFIPS": true,
            "UseDualStack": true,
            "Region": "us-isob-east-1"
        }
    },
    {
        "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
            }
        },
        "params": {
            "UseFIPS": true,
            "UseDualStack": false,
            "Region": "us-isob-east-1"
        }
    },
    {
        "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
        "expect": {
            "error": "DualStack is enabled but this partition does not support DualStack"
        },
        "params": {
            "UseFIPS": false,
            "UseDualStack": true,
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```
        "Region": "us-isob-east-1"
    }
},
{
    "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
    "expect": {
        "endpoint": {
            "url": "https://example.com"
        }
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "us-east-1",
        "Endpoint": "https://example.com"
    }
},
{
    "documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
    "expect": {
        "endpoint": {
            "url": "https://example.com"
        }
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
    }
},
{
    "documentation": "For custom endpoint with fips enabled and dualstack disabled",
    "expect": {
        "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
    },
    "params": {
        "UseFIPS": true,
        "UseDualStack": false,
        "Region": "us-east-1",
        "Endpoint": "https://example.com"
    }
},
{
    "documentation": "For custom endpoint with fips disabled and dualstack enabled",
    "expect": {
        "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
    },
```

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          "params": {
            "UseFIPS": false,
            "UseDualStack": true,
            "Region": "us-east-1",
            "Endpoint": "https://example.com"
          }
      },
      {
          "documentation": "Missing region",
          "expect": {
            "error": "Invalid Configuration: Missing Region"
          }
      }
  ],
  "version": "1.0"
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  "version": "1.0",
  "parameters": {
      "Region": {
          "builtIn": "AWS::Region",
          "required": false,
          "documentation": "The AWS region used to dispatch the request.",
          "type": "String"
      },
      "UseDualStack": {
          "builtIn": "AWS::UseDualStack",
          "required": true,
          "default": false,
          "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
          "type": "Boolean"
      },
      "UseFIPS": {
          "builtIn": "AWS::UseFIPS",
          "required": true,
          "default": false,
          "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
          "type": "Boolean"
      },
      "Endpoint": {

    "builtIn": "SDK::Endpoint",
          "required": false,
          "documentation": "Override the endpoint used to send this request",
          "type": "String"
      }
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},
"rules": [
  {
    "conditions": [
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        "fn": "isSet",
        "argv": [
          {
            "ref": "Endpoint"
          }
        ]
      }
    ],
    "rules": [
      {
        "conditions": [
          {
            "fn": "booleanEquals",
            "argv": [
              {
                "ref": "UseFIPS"
              },
              true
            ]
          }
        ],
        "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
         "type": "error"
      },
      {
        "conditions": [],
        "rules": [
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseDualStack"
                  },
                  true
                ]
              }
            ],
            "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
            "type": "error"
          },
          {
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                "conditions": [],
                "endpoint": {
                    "url": {

                  "ref": "Endpoint"
                    },
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ],
        "type": "tree"
    }
  ],
  "type": "tree"
},
{
  "conditions": [],
  "rules": [
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      "conditions": [
        {
          "fn": "isSet",
          "argv": [
            {
              "ref": "Region"
            }
          ]
        }
      ],
      "rules": [
        {
          "conditions": [
            {

"fn": "aws.partition",
              "argv": [
                {
                  "ref": "Region"
                }
              ],
              "assign": "PartitionResult"
            }
          ],
          "rules": [
            {
              "conditions": [
```

```
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseFIPS"
                            },
                            true
                        ]
                    },

                {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseDualStack"
                            },
                            true
                        ]
                    }
                ],
                "rules": [
                    {
                        "conditions": [
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    true,
                                    {

            "fn": "getAttr",
                                        "argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },
                                            "supportsFIPS"
                                        ]
                                    }
                                ]
                            },
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    true,
                                    {

        "fn": "getAttr",
                                        "argv": [
                                            {
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"ref": "PartitionResult"
},
"supportsDualStack"
]
}
]
}
],
"rules": [
{
"conditions": [],
"rules": [
{

"conditions": [],
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
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"type": "endpoint"
}
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"type": "tree"
}
],
"type": "tree"
},

{
"conditions": [],
"error": "FIPS and DualStack are enabled, but this partition does not support one or both",
"type": "error"
}
],
"type": "tree"
},
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
},
true

```
                ]
            }

        ],
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
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                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsFIPS"
                                ]

},
                            true
                        ]
                    }
                ],
                "rules": [
                    {
                        "conditions": [],
                        "rules": [
                            {
                                "conditions": [],
                                "endpoint": {
                                    "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                                    "properties": {},
                                    "headers": {}

                                },
                                "type": "endpoint"
                            }
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"ref": "PartitionResult"
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]
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      "output_token": "NextToken",
      "limit_key": "MaxResults",
      "result_key": "Subscriptions"
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      "result_key": "RegisteredSubscriptionProviders"
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   "examples": {
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  }
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      "result_key": "IdentityProviderSummaries"
    },
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      "output_token": "NextToken",
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      "result_key": "InstanceSummaries"
    },
    "ListProductSubscriptions": {
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"limit_key": "MaxResults",
"result_key": "InstanceUserSummaries"
}
}
}
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{
"version":"2.0",
"metadata":{
"apiVersion":"2018-05-10",
"endpointPrefix":"license-manager-user-subscriptions",
"jsonVersion":"1.1",
"protocol":"rest-json",
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"serviceId":"License Manager User Subscriptions",
"signatureVersion":"v4",
"signingName":"license-manager-user-subscriptions",
"uid":"license-manager-user-subscriptions-2018-05-10"
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"type":"structure",
"members":{
"DirectoryId":{"shape":"String"}
}
},
"AssociateUserRequest":{
"type":"structure",
"required":[
"IdentityProvider",
"InstanceId",
"Username"

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    "IdentityProvider":{"shape":"IdentityProvider"},
    "InstanceId":{"shape":"String"},
    "Username":{"shape":"String"}
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  "exception":true,
  "fault":true
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    "Product":{"shape":"String"}
  }
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  "members":{
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  "required":[
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"Product",
"Settings",
"Status"
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"Product":{"shape":"String"},
"Settings":{"shape":"Settings"},
"Status":{"shape":"String"}
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"Status":{"shape":"String"},
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"DisassociationDate":{"shape":"String"},
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"InstanceId":{"shape":"String"},
"Status":{"shape":"String"},
"StatusMessage":{"shape":"String"},
"Username":{"shape":"String"}
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  ],
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"Product":{"shape":"String"}
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"Product":{"shape":"String"},
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"StatusMessage":{"shape":"String"},
"SubscriptionEndDate":{"shape":"String"},
"SubscriptionStartDate":{"shape":"String"},
"Username":{"shape":"String"}
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"ProductUserSummaryList":{
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"RegisterIdentityProviderRequest":{
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"required":[
"IdentityProvider",
"Product"
],
"members":{
"IdentityProvider":{"shape":"IdentityProvider"},
"Product":{"shape":"String"},
"Settings":{"shape":"Settings"}
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"RegisterIdentityProviderResponse":{
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"IdentityProviderSummary":{"shape":"IdentityProviderSummary"}
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"ResourceNotFoundException":{
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"members":{
"message":{"shape":"String"}
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"error":{
"httpStatusCode":404,
"senderFault":true
},
"exception":true
},
"SecurityGroup":{
"type":"string",
"max":200,
"min":5,
"pattern":"^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
},

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    "Subnets"
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  }
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"SettingsSubnetsList":{
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  "member":{"shape":"Subnet"},
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    "Product",
    "Username"
  ],
  "members":{
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    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{"shape":"String"},
    "Username":{"shape":"String"}
  }
},
"StartProductSubscriptionResponse":{
  "type":"structure",
  "required":["ProductUserSummary"],
  "members":{
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  }
},
"StopProductSubscriptionRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",

"Product",
"Username"
],
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"Domain":{"shape":"String"},
"IdentityProvider":{"shape":"IdentityProvider"},
"Product":{"shape":"String"},
"Username":{"shape":"String"}
}
},
"StopProductSubscriptionResponse":{
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"members":{
"ProductUserSummary":{"shape":"ProductUserSummary"}
}
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"String":{"type":"string"},
"StringList":{
"type":"list",
"member":{"shape":"String"}
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"Subnet":{
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"Subnets":{
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"member":{"shape":"Subnet"}
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"ThrottlingException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
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"required":[
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"Product",
"UpdateSettings"
],
"members":{
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"Product":{"shape":"String"},
"UpdateSettings":{"shape":"UpdateSettings"}

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      "RemoveSubnets"
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      "RemoveSubnets":{"shape":"Subnets"},
      "SecurityGroupId":{"shape":"SecurityGroup"}
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  },
  "ValidationException":{
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    "members":{
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    "exception":true
  }
 }
}
```


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DualStack enabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
            }
        },
        "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": true
        }
    },
    {
        "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
             }
        },
        "params": {
            "Region": "cn-north-1",
            "UseFIPS": true,
            "UseDualStack": true
```

```
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
      }
    },
    "params": {
      "Region": "cn-north-1",
      "UseFIPS": true,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
       }
    },
    "params": {
      "Region": "cn-north-1",
      "UseFIPS": false,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
      }
    },
    "params": {
      "Region": "cn-north-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
      }
    },
```

```
    "params": {
        "Region": "us-gov-east-1",
         "UseFIPS": true,
        "UseDualStack": true
    }
},
{
    "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
        }
    },
    "params": {
        "Region": "us-gov-east-1",
        "UseFIPS": true,
        "UseDualStack": false
    }
},
{
    "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
        }
    },
    "params": {
        "Region": "us-gov-east-1",
        "UseFIPS": false,
        "UseDualStack": true
     }
},
{
    "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
        }
    },
    "params": {
        "Region": "us-gov-east-1",
        "UseFIPS": false,
        "UseDualStack": false
    }
},
{
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
```

```
        "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
      },
      "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
        }
      },
      "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": true,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "error": "DualStack is enabled but this partition does not support DualStack"
      },
      "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": false,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
        }
      },
      "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
```

```
        "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
      },
      "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
        }
      },
      "params": {
        "Region": "us-isob-east-1",
         "UseFIPS": true,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "error": "DualStack is enabled but this partition does not support DualStack"
      },
      "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": false,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
        }
      },
      "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
```

"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect":
{
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true,

```
            "Endpoint": "https://example.com"
        }
    },
    {
        "documentation": "Missing region",
        "expect": {
            "error": "Invalid Configuration: Missing Region"
        }
    }
  ],
  "version": "1.0"
}
```


1.3927 httpsig 1.1.0

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1.3928 loads 0.22.0

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1.3929 aws-sdk-go-v2-service-sso 1.18.7

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```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil,
 err
 }

 out := result.(*AssociateLicenseOutput)
```

```
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err !=
 nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }
```

```
if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack);
err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
```

```
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
```

AWS SDK for Go

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```
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
```

```
    - name: Checkout this ref
      uses: actions/checkout@v2
      with:
        path: new-ref
        fetch-depth: 0
    - name: Get Diff
      run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
    - name: Get Target Files
      run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
       uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
```

```
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
```

```
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return
```

```
 err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckInLicense",
 }
}
{
  "smithy": "2.0",
  "shapes": {
      "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
          "type": "integer"
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
          "type": "long"
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
          "type": "structure",
          "members": {
              "Name": {
                  "target": "smithy.api#String",
                  "traits": {
                      "smithy.api#documentation": "<p>The type of name to filter by.</p>"
```

```
            }
        },
        "Values": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
            "traits": {
                "smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
            }
        },
        "Operator": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
             "traits": {
                "smithy.api#documentation": "<p>An operator for filtering results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>A filter object that is used to return more specific results from a describe
operation.\n      Filters can be used to match a set of resources by specific criteria.</p>"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
    },
    "output": {

      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the Linux subscriptions service settings.</p>",
```

"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/GetServiceSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest":
{
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " Lists the settings defined for Linux subscriptions discovery. The
settings include if\n Organizations integration has been enabled, and
which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being
applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings
current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays

the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
"type": "structure",
"members": {
"AmiId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The AMI ID used to launch the instance. "
}
},
"InstanceID": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The instance ID of the resource. "
}
},
"InstanceType": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The instance type of the resource. "
}

},
"AccountID": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The account ID which owns the instance. "
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of the instance. "
}
},
"Region": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The Region the instance is running in. "
}
},
"UsageOperation": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " The usage operation of the instance. For more information, see For more information, see\n Usage\n operation values in the License Manager User Guide. "
}
},
"ProductCode": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
"traits": {
"smithy.api#documentation": " The product code for the instance. For more information, see Usage\n operation values in the License Manager User Guide . "
}
},
"LastUpdatedTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The time in which the last discovery updated the instance details. "
}
},
"SubscriptionName": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription being used by the instance. "
}
}
},
"traits": {
"smithy.api#documentation": " Details discovered information about a running instance using Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " An exception occurred with the service. ",

"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
"type": "service",
"version": "2018-05-10",
"operations": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
}
],

"traits": {
"aws.api#service": {
"sdkId": "License Manager Linux Subscriptions",
"arnNamespace": "license-manager-linux-subscriptions",
"cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
},
"aws.auth#sigv4": {
"name": "license-manager-linux-subscriptions"
},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",

"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"

```
            ],
            "additionalExposedHeaders": [
                "x-amzn-errortype",
                "x-amzn-requestid",
                "x-amzn-trace-id"
            ]
        },
        "smithy.api#documentation": "<p>With License Manager, you can discover and track your commercial
Linux subscriptions on running\n      Amazon EC2 instances.</p>",
        "smithy.api#title": "AWS License Manager Linux Subscriptions",
        "smithy.rules#endpointRuleSet": {
            "version": "1.0",
            "parameters": {
                "Region": {
                    "builtIn": "AWS::Region",
                    "required": false,
                    "documentation": "The
 AWS region used to dispatch the request.",
                    "type": "String"
                },
                "UseDualStack": {
                    "builtIn": "AWS::UseDualStack",
                    "required": true,
                    "default": false,
                    "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not
support dual-stack, dispatching the request MAY return an error.",
                    "type": "Boolean"
                },
                "UseFIPS": {
                    "builtIn": "AWS::UseFIPS",
                    "required": true,
                    "default": false,
                    "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the
configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

                 "type": "Boolean"
                },
                "Endpoint": {
                    "builtIn": "SDK::Endpoint",
                    "required": false,
                    "documentation": "Override the endpoint used to send this request",
                    "type": "String"
                }
            },
            "rules": [
                {
                    "conditions": [
                        {
```

```
        "fn": "isSet",
        "argv": [
            {
                "ref": "Endpoint"
            }
        ]
    }
],
"type": "tree",
"rules": [
    {

  "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseFIPS"
                    },
                    true
                ]
            }
        ],
        "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
        "type": "error"
    },
    {
        "conditions": [],
        "type": "tree",
        "rules": [
            {

     "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseDualStack"
                            },
                            true
                        ]
                    }
                ],
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                "type": "error"
            },
            {
                "conditions": [],
```

```
                "endpoint": {
                        "url": {
                            "ref": "Endpoint"
                        },
                        "properties": {},
                        "headers": {}
                    },
                    "type": "endpoint"
                }
            ]
        }
    ]
},
{
    "conditions": [],
    "type": "tree",
    "rules": [
        {
            "conditions": [
                {
                    "fn": "isSet",

        "argv": [
                        {
                            "ref": "Region"
                        }
                    ]
                }
            ],
            "type": "tree",
            "rules": [
                {
                    "conditions": [
                        {
                            "fn": "aws.partition",
                            "argv": [
                                {
                                    "ref": "Region"
                                }
                            ],

    "assign": "PartitionResult"
                        }
                    ],
                    "type": "tree",
                    "rules": [
                        {
```

```
                    "conditions": [
                      {
                        "fn": "booleanEquals",
                        "argv": [
                          {
                            "ref": "UseFIPS"
                          },
                          true
                        ]
                      },

                {
                        "fn": "booleanEquals",
                        "argv": [
                          {
                            "ref": "UseDualStack"
                          },
                          true
                        ]
                      }
                    ],
                    "type": "tree",
                    "rules": [
                      {
                        "conditions": [
                          {

                       "fn": "booleanEquals",
                            "argv": [
                              true,
                              {
                                "fn": "getAttr",
                                "argv": [
                                  {
                                    "ref": "PartitionResult"
                                  },
                                  "supportsFIPS"
                                ]

}
                            ]
                          },
                          {
                            "fn": "booleanEquals",
                            "argv": [
                              true,
                              {
                                "fn": "getAttr",
```

"argv": [
{
"ref": "PartitionResult"
},

"supportsDualStack"
]
}
]
}
],
"type": "tree",
"rules": [
{
"conditions": [],
"type": "tree",
"rules": [
{

"conditions": [],
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
}
]

},
{
"conditions": [],
"error": "FIPS and DualStack are enabled, but this partition does not support one or both",
"type": "error"
}
]
},
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{

"ref": "UseFIPS"
},
true
]
}
],
"type": "tree",
"rules": [
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
true,

{
"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsFIPS"
]
}
]
}
],
"type": "tree",

"rules": [
{
"conditions": [],
"type": "tree",
"rules": [
{
"conditions": [],
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.{Region}.{PartitionResult#dnsSuffix}",
"properties": {},
"headers": {}

},
"type": "endpoint"
}
]
}
]

```
                    },
                    {
                        "conditions": [],
                        "error": "FIPS is enabled but this partition does not support FIPS",
                        "type": "error"
                    }
                ]

},
                {
                    "conditions": [
                        {
                            "fn": "booleanEquals",
                            "argv": [
                                {
                                    "ref": "UseDualStack"
                                },
                                true
                            ]
                        }
                    ],
                    "type": "tree",
                    "rules": [
                        {

                     "conditions": [
                                {
                                    "fn": "booleanEquals",
                                    "argv": [
                                        true,
                                        {
                                            "fn": "getAttr",
                                            "argv": [
                                                {
                                                    "ref": "PartitionResult"
                                                },
                                                "supportsDualStack"
                                             ]
                                        }
                                    ]
                                }
                            ],
                            "type": "tree",
                            "rules": [
                                {
                                    "conditions": [],
                                    "type": "tree",
                                    "rules": [
```

```
                                        {
                                            "conditions": [],

                                    "endpoint": {
                                                "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                                "properties": {},
                                                "headers": {}
                                            },
                                            "type": "endpoint"
                                        }
                                    ]
                                }
                            ]
                        },

        {
                            "conditions": [],
                            "error": "DualStack is enabled but this partition does not support DualStack",
                            "type": "error"
                        }
                    ]
                },
                {
                    "conditions": [],
                    "type": "tree",
                    "rules": [
                        {
                            "conditions": [],
                            "endpoint": {
                                "url":
"https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                                "properties": {},
                                "headers": {}
                            },
                            "type": "endpoint"
                        }
                    ]
                }
            ]
        }
    ]
},
{
    "conditions": [],
    "error": "Invalid Configuration: Missing Region",
    "type": "error"
}
```

```
            ]
          }
        ]
      },
      "smithy.rules#endpointTests": {
        "testCases": [
          {
            "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
              }
            },
            "params": {
              "Region": "us-east-1",
              "UseFIPS": true,
              "UseDualStack": true
            }
          },
          {
            "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
            "expect": {

"endpoint": {
                "url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
              }
            },
            "params": {
              "Region": "us-east-1",
              "UseFIPS": true,
              "UseDualStack": false
            }
          },
          {
            "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
              }
            },
            "params": {
              "Region": "us-east-1",
              "UseFIPS": false,
               "UseDualStack": true
            }
          },
          {
            "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
```

```
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "us-east-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "endpoint": {

    "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
      }
    },
    "params": {
      "Region": "cn-north-1",
      "UseFIPS": true,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
      }
    },
    "params": {
      "Region": "cn-north-1",
      "UseFIPS": true,
       "UseDualStack": false
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
      }
    },
    "params": {
      "Region": "cn-north-1",
      "UseFIPS": false,
```

"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint":
{
"url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint":

{
"url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{

"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{

"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {

"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}

```
                },
                {
                    "documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
                    "expect": {
                        "error": "DualStack is enabled but this partition does not support DualStack"
                    },
                    "params": {
                        "Region": "us-isob-east-1",
                        "UseFIPS": false,
                        "UseDualStack": true
                    }
                },
                {
                    "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
                    "expect": {
                        "endpoint": {
                            "url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
                        }
                    },
                    "params": {
                        "Region": "us-isob-east-1",

        "UseFIPS": false,
                        "UseDualStack": false
                    }
                },
                {
                    "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
                    "expect": {
                        "endpoint": {
                            "url": "https://example.com"
                        }
                    },
                    "params": {
                        "Region": "us-east-1",
                        "UseFIPS": false,
                        "UseDualStack": false,
                        "Endpoint": "https://example.com"
                    }
                },
                {
                    "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",

            "expect": {
                        "endpoint": {
                            "url": "https://example.com"
```

```
                }
            },
            "params": {
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips enabled and dualstack disabled",
            "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false,

    "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips disabled and dualstack enabled",
            "expect": {
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "Missing region",
            "expect": {
                "error": "Invalid Configuration: Missing Region"
            }

    }
        ],
        "version": "1.0"
    }
  }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
  "type": "string",
  "traits": {
```

```
            "smithy.api#enum": [
                {
                    "name": "Enabled",
                    "value": "Enabled",
                    "documentation": "Enabled LinuxSubscriptionsDiscovery"
                },
                {
                    "name": "Disabled",
                    "value": "Disabled",
                    "documentation": "Disabled LinuxSubscriptionsDiscovery"
                }
            ]
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
        "type": "structure",
        "members": {
            "SourceRegions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                 "traits": {
                    "smithy.api#documentation": "<p>The Regions in which to discover data for Linux
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "OrganizationIntegration": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
                "traits": {
                    "smithy.api#documentation": "<p>Details if you have enabled resource discovery across your
accounts in Organizations.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Lists the settings defined for discovering Linux subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
        "type":
 "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
        },
        "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the running Amazon EC2 instances that were discovered with
commercial Linux\n      subscriptions.</p>",
            "smithy.api#http": {

        "code": 200,
                "method": "POST",
                "uri": "/subscription/ListLinuxSubscriptionInstances"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "Instances"
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by
 the name of\n        <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n
match, or don't match a certain Amazon Machine Image (AMI) ID.</p>\n        <p>The valid names for this filter
are:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>AmiID</code>\n                </p>\n
</li>\n            <li>\n                <p>\n                    <code>InstanceID</code>\n                </p>\n            </li>\n
<li>\n                <p>\n                    <code>AccountID</code>\n                </p>\n            </li>\n            <li>\n
<p>\n                    <code>Status</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>Region</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>UsageOperation</code>\n                </p>\n            </li>\n            <li>\n
    <p>\n                    <code>ProductCode</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
     <code>InstanceType</code>\n                </p>\n            </li>\n        </ul>\n        <p>The valid Operators for this
filter are:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>contains</code>\n                </p>\n
</li>\n            <li>\n                <p>\n                    <code>equals</code>\n                </p>\n            </li>\n            <li>\n
```

```
<p>\n <code>Notequal</code>\n </p>\n </li>\n </ul>"
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"

}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": "<p>Token for the next set of results.</p>",
"smithy.api#length": {
"min": 1,
"max": 16384
}
}
}
},
"traits": {
"smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
"type": "structure",
"members": {
"Instances": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
"traits": {
"smithy.api#documentation": "<p>An array that contains instance objects.</p>"
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": "<p>Token for the next set of results.</p>"
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
```

```
        },
        "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
             },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the Linux subscriptions that have been discovered. If you have linked your\n      organization, the returned results will include data aggregated across your accounts in\n Organizations.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/ListLinuxSubscriptions"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "Subscriptions"
            }

        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>Subscription</code> with an optional operator to see subscriptions that match,\n      partially match, or don't match a certain subscription's name.</p>\n        <p>The valid names for this filter are:</p>\n        <ul>\n <li>\n            <p>\n                <code>Subscription</code>\n            </p>\n        </li>\n        </ul>\n <p>The valid Operators for this filter are:</p>\n        <ul>\n        <li>\n            <p>\n                <code>contains</code>\n            </p>\n        </li>\n <li>\n            <p>\n                <code>equals</code>\n            </p>\n        </li>\n        <li>\n            <p>\n
```

```
<code>Notequal</code>\n            </p>\n          </li>\n        </ul>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>",
              "smithy.api#length": {

               "min": 1,
                "max": 16384
              }
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
        "type": "structure",
        "members": {
          "Subscriptions": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
            "traits": {
              "smithy.api#documentation": "<p>An array that contains subscription objects.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for
 the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
        "type": "string",
        "traits": {
          "smithy.api#enum": [
```

```
            {
                "name": "EQUAL",
                "value": "Equal",
                "documentation": "Equal operator"
            },
            {
                "name": "NOT_EQUAL",
                "value": "NotEqual",
                "documentation": "Not equal operator"
            },
            {
                "name": "CONTAINS",
                "value": "Contains",
                "documentation": "Contains operator"
            }
        ],
        "smithy.api#length": {
            "min": 1,
            "max": 20
        }
    }
},

"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "name": "Enabled",
                "value": "Enabled",
                "documentation": "Enabled OrganizationIntegration"
            },
            {
                "name": "Disabled",
                "value": "Disabled",
                "documentation": "Disabled OrganizationIntegration"
            }
        ]
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
    "type": "list",
    "member": {
        "target": "smithy.api#String"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
    "type": "string",
```

"traits": {
"smithy.api#enum": [

{
"name": "InProgress",
"value": "InProgress",
"documentation": "InProgress status"
},
{
"name": "Completed",
"value": "Completed",
"documentation": "Completed status"
},
{
"name": "Successful",
"value": "Successful",
"documentation": "Successful status"
},
{
"name": "Failed",
"value": "Failed",
"documentation": "Failed status"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
"type": "list",
"member": {
"target": "smithy.api#String",
"traits":
{
"smithy.api#length": {
"min": 1,
"max": 100
}
}
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
},
"smithy.api#uniqueItems": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
"type": "map",

"key": {
"target": "smithy.api#String"
},
"value": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
"type": "structure",
"members": {
"Name": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription. "

}
},
"Type": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own\n Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the\n Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS. "
}
},
"InstanceCount": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
"traits": {
"smithy.api#documentation": " The total amount of running instances using this subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " An object which details a discovered Linux subscription. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
"type": "structure",
"members": {
"message": {

```
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The request was denied due to request throttling.</p>",
          "smithy.api#error": "client"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
        },

      "output": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Updates the service settings for Linux subscriptions.</p>",
          "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/subscription/UpdateServiceSettings"
          },
          "smithy.api#idempotent": {}
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest":
{
        "type": "structure",
        "members": {
          "LinuxSubscriptionsDiscovery": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
            "traits": {
              "smithy.api#documentation": "<p>Describes if the discovery of Linux subscriptions is enabled.</p>",
              "smithy.api#required": {}
            }
```

```
            },
            "LinuxSubscriptionsDiscoverySettings": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
                "traits": {
                    "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The
settings include if Organizations\n      integration has been enabled, and which Regions data will be aggregated
from.</p>",

  "smithy.api#required": {}
                }
            },
            "AllowUpdate": {
                "target": "smithy.api#Boolean",
                "traits": {
                    "smithy.api#documentation": "<p>Describes if updates are allowed to the service settings for Linux
subscriptions. If you\n      allow updates, you can aggregate Linux subscription data in more than one home
Region.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "LinuxSubscriptionsDiscovery": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
                "traits": {
                    "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
                }
            },

            "LinuxSubscriptionsDiscoverySettings": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
                "traits": {
                    "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The
settings include if Organizations\n      integration has been enabled, and which Regions data will be aggregated
from.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
                }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
```

```
                "traits": {
                    "smithy.api#documentation":
 "<p>A message which details the Linux subscriptions service settings current status.</p>"
                }
            },
            "HomeRegions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>The Region in which License Manager displays the aggregated
data for Linux\n      subscriptions.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
            "smithy.api#error": "client"
        }
    }
  }
}
```


```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - Beneficiary
 //   - ProductSKU
 //   - Fingerprint
 //
   - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if
 err := addProtocolFinalizerMiddlewares(stack, options, "ListLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
```

```
 err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
     ServiceID,
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 //
 This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
```

```
 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack,
 options, "DisassociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
```

```
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
```

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string
```

```
 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource
 Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string
```

```
 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil
 {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
```

```
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier
 that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
```

```
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
```

```
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return
 err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
```

```
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide
 to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string
```

// Configuration for consumption of the license. Choose a provisional
// configuration for workloads running with continuous connectivity. Choose a
// borrow configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity
*types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde

```
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
  return fmt.Errorf("add
 protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
```

```
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName:
 "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
```

```
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return
 err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack);
 err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
```

```
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "GetLicense",
 }
}
```

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DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
```

```
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
   - ProductSKU
 //   - Status
 //   - Fingerprint
 //   - IssuerName
 //   - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
```

```
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
 middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}
```

```
func newServiceMetadataMiddleware_opListReceivedLicenses(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
 }
}
```

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```
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
        "smithy.api#error": "client"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
      "type": "structure",
      "members": {
        "DirectoryId": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
```

```
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
 "<p>Details about an Active Directory identity provider.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Associates the user to an EC2 instance to utilize user-based
subscriptions.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related
costs will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing
status) in Amazon Web Services Billing. For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n
        monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
                "code": 200,
```

"method": "POST",
"uri": "/user/AssociateUser"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the
EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " The identity provider of the user. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}

```
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
        "type": "integer"
    },
    "com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request couldn't be completed because it conflicted with the current
state of the\n      resource.</p>",
            "smithy.api#error": "server"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider":
 {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
```

"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deregisters the identity provider from providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/DeregisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
"type": "operation",

"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Disassociates the user from an EC2 instance providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/DisassociateUser"
},
"smithy.api#idempotent": {}
}

},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",

"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
}
},

"com.amazonaws.licensemanagerusersubscriptions#Filter": {
"type": "structure",
"members": {
"Attribute": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of an attribute to use as a filter. "
}

```
            },
            "Operation": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The type of search (For example, eq, geq, leq)</p>"
                }
            },
            "Value": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Value of the filter.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A filter name and value pair that is used
 to return more specific results from a describe\n      operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n      attributes, or IDs.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#FilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
        "type": "union",
        "members": {
            "ActiveDirectoryIdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that details an Active Directory identity provider.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
 "<p>Details about an identity provider.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
```

"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " An object that details the registered identity providers product related configuration\n settings such as the subnets to provision VPC endpoints. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of an identity provider. ",
"smithy.api#required": {}
}
},
"FailureMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The failure message associated with an identity provider. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
"type": "structure",
"members": {
"InstanceId": {

"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of an EC2 instance resource. ",
"smithy.api#required": {}
}
},
"Products": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
"traits": {
"smithy.api#documentation": " A list of provided user-based subscription products. ",
"smithy.api#required": {}
}
},
"LastStatusCheckDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date of the last status check. "
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for an EC2 instance. "
}

}
},
"traits": {
"smithy.api#documentation": " Describes an EC2 instance providing user-based subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
"type": "structure",

"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits":
{
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a user associated with an EC2 instance. ",
"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for users of an EC2 instance. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"AssociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was associated with an EC2 instance. "
}

```
            },
            "DisassociationDate": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The date a user was disassociated from an EC2 instance.</p>"
                }
            }

    },
        "traits": {
            "smithy.api#documentation": "<p>Describes users of an EC2 instance providing user-based
subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
            "smithy.api#error": "server"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
        "type": "service",

     "version": "2018-05-10",
        "operations": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
```

```
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

    },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
        }
      ],
      "traits": {
        "aws.api#service": {
          "sdkId": "License Manager User Subscriptions",
          "arnNamespace": "license-manager-user-subscriptions",
          "cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
        },
        "aws.auth#sigv4": {
          "name": "license-manager-user-subscriptions"
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        "aws.protocols#restJson1": {},
        "smithy.api#cors": {
          "additionalAllowedHeaders": [
            "*",
            "content-type",
            "x-amz-content-sha256",
            "x-amz-user-agent",
            "x-amzn-platform-id",
            "x-amzn-trace-id",
            "content-length",
            "x-api-key",
            "authorization",
            "x-amz-date",
            "x-amz-security-token",
            "Access-Control-Allow-Headers",
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"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"

]
},
"smithy.api#documentation": " With License Manager, you can create user-based subscriptions to utilize licensed software with\n a per user subscription fee on Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager User Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
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"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
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"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
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"rules": [
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                            "ref": "Endpoint"
                        }
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                }
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                                },

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"error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                    "type": "error"
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        "type": "endpoint"
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      "argv": [

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          "argv": [
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              "ref": "Region"
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          "assign": "PartitionResult"
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      "type": "tree",

"rules": [
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                        "argv": [
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                            },
                            true
                        ]
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                                    {
                                        "fn": "getAttr",

"argv": [
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                                                "ref": "PartitionResult"
                                            },
                                            "supportsFIPS"
                                        ]
                                    }
                                ]
                            },
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    true,
                                    {

"fn": "getAttr",
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                                            {
                                                "ref": "PartitionResult"
                                            },
                                            "supportsDualStack"
                                        ]
                                    }
                                ]
                            }
```

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                    "rules": [
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fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                "properties": {},
                                "headers": {}
                            },
                            "type": "endpoint"
                        }
                    ]
                },
                {
                    "conditions": [],
                    "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
                     "type": "error"
                }
            ]
        },
        {
            "conditions": [
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                    "fn": "booleanEquals",
                    "argv": [
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                        },
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                }
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        "rules": [
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                            "fn": "booleanEquals",
                            "argv": [
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                                {
                                    "fn": "getAttr",
                                    "argv": [
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                                    {
                                        "ref": "PartitionResult"
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                                    "supportsFIPS"

                                ]
                                    }
                                ]
                            }
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fips.{Region}.{PartitionResult#dnsSuffix}",
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                                    "headers": {}

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                                "type": "endpoint"
                            }
                        ]
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                        "conditions": [],
                        "error": "FIPS is enabled but this partition does not support FIPS",
                        "type": "error"
                    }
                ]
            },
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
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                                "ref": "UseDualStack"
                            },
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                        "conditions": [
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                              {
                                "ref": "PartitionResult"
                              },
                              "supportsDualStack"
                            ]
                        }
                      ]
                    }
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                  "type": "tree",
                  "rules": [
                    {

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                      "endpoint": {
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subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                        "properties": {},
                        "headers": {}
                      },
                      "type": "endpoint"
                    }
                  ]
                },
                {
                  "conditions": [],
                  "error": "DualStack is enabled but this partition does
 not support DualStack",
                  "type": "error"
                }
              ]
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            {
              "conditions": [],
              "endpoint": {
                "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                "properties": {},
                "headers": {}
              },
```

```
                "type": "endpoint"
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            ]
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        ]
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        "conditions":
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        "error": "Invalid Configuration: Missing Region",
        "type": "error"
      }
    ]
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  "smithy.rules#endpointTests": {
    "testCases": [
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        "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
          }
        },
        "params": {
          "Region": "us-east-1",
          "UseFIPS": true,
          "UseDualStack": true
        }
      },
      {
        "documentation":
"For region us-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
          }
        },
        "params": {
          "Region": "us-east-1",
          "UseFIPS": true,
          "UseDualStack": false
        }
      },
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        "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
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                }
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        "params": {
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                "UseFIPS": false,
                "UseDualStack": true
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        {
            "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
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            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
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            "documentation": "For region cn-north-1 with
 FIPS enabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
                }
            },
            "params": {
                "Region": "cn-north-1",
                "UseFIPS": true,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
                }
            },

    "params": {
                "Region": "cn-north-1",
                "UseFIPS": true,
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"UseDualStack": false
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"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1
with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
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"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
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"params": {
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"documentation": "For region us-gov-east-1
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"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},

{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect":
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"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
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"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
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{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
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"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack":
true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but
this partition does not support one or both"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,

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            "UseDualStack": true
        }
    },
    {
        "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
            }
        },
        "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": true,
            "UseDualStack": false
        }

},
    {
        "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
        "expect": {
            "error": "DualStack is enabled but this partition does not support DualStack"
        },
        "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": false,
            "UseDualStack": true
        }
    },
    {
        "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
            }
        },
         "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
        "expect": {
            "endpoint": {
                "url": "https://example.com"
            }
        },
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"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{

"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
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"params": {
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
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},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
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"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
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"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
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"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true,
"Endpoint": "https://example.com"
}
},
{
"documentation": "Missing region",
"expect": {

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                "error": "Invalid Configuration: Missing Region"
            }
        }
    ],
    "version": "1.0"
  }
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
    }
  ],
  "traits": {
    "smithy.api#documentation": "<p>Lists the identity providers for user-based subscriptions.</p>",
    "smithy.api#http": {
      "code": 200,
      "method": "POST",
      "uri": "/identity-provider/ListIdentityProviders"
    },
    "smithy.api#paginated":
```

{
            "inputToken": "NextToken",
            "outputToken": "NextToken",
            "pageSize": "MaxResults",
            "items": "IdentityProviderSummaries"
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
        "type": "structure",
        "members": {
          "MaxResults": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
            "traits": {
              "smithy.api#documentation": " Maximum number of results to return in a single call. "
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": " Token for the next set of results. "
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
{
        "type": "structure",
        "members": {
          "IdentityProviderSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
            "traits": {
              "smithy.api#documentation": " Metadata that describes the list identity providers operation. ",
              "smithy.api#required": {}
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": " Token for the next set of results. "
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"

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        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/instance/ListInstances"
            },
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
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"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
"type": "structure",
"members": {
"InstanceSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list instances operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

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            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the user-based subscription products available from an identity
provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListProductSubscriptions"
            },
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "ProductUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name
 of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
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"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {

"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
"type": "structure",
"members": {
"ProductUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list product subscriptions operation. "
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target":
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists user associations for an identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/ListUserAssociations"
},
"smithy.api#paginated":
{
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "InstanceUserSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {

"type": "structure",
"members": {
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
"type": "structure",
"members": {
"InstanceUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list user association operation. "
}

```
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
    "type": "structure",
    "members": {

    "Username": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                "smithy.api#required": {}
            }
        },
        "Product": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                "smithy.api#required": {}
            }
        },
        "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
                "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                "smithy.api#required": {}
            }

},
        "Status": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The status of a product for a user.</p>",
                "smithy.api#required": {}
            }
        },
        "StatusMessage": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The status message for a product for a user.</p>"
            }
        },
```

"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"SubscriptionStartDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The
start date of a subscription. "
}
},
"SubscriptionEndDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The end date of a subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " The summary of the user-based subscription products for a user. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Registers an identity provider for user-based subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/RegisterIdentityProvider"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity
provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Settings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
                "traits": {
                    "smithy.api#documentation": "<p>The registered identity providers product related configuration
settings such as the\n      subnets to provision VPC endpoints.</p>"
                }
            }
```

```
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
        "type": "structure",
        "members": {
            "IdentityProviderSummary":
 {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the results of an identity provider
operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The resource couldn't be found.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 404
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
        "type": "string",

   "traits": {
            "smithy.api#length": {
                "min": 5,
                "max": 200
            },
            "smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
```

"smithy.api#documentation": " The request failed because a service quota is exceeded. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Settings": {
"type": "structure",
"members": {
"Subnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation":
" The subnets defined for the registered identity provider. ",
"smithy.api#length": {
"min": 1
},
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID that allows inbound TCP port 1688
communication between resources in\n your VPC and the VPC endpoint for activation servers. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings
such as the\n subnets to provision VPC endpoints, and the security group ID that
is associated with the VPC\n endpoints. The security group should permit inbound TCP port 1688
communication from resources\n in the VPC. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"

```
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Starts a product subscription for a user with the specified identity provider.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related costs will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing.
 For more information, see <a href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n        monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/StartProductSubscription"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
```

```
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
        "type": "structure",
         "members": {
            "ProductUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the start product subscription
operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

    },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Stops a product subscription for a user with the specified identity
provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/StopProductSubscription"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required":
{}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
```

```
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
        "type": "structure",
        "members": {
            "ProductUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
                "traits": {
                    "smithy.api#documentation":
"<p>Metadata that describes the start product subscription operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StringList": {
        "type": "list",
        "member": {
            "target": "smithy.api#String"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Subnet": {
        "type": "string",
        "traits": {
            "smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Subnets": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
            "message": {

             "target": "smithy.api#String"
            }
        },
        "traits": {
```

"smithy.api#documentation": " The request was denied because of request throttling. Retry the request. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates additional product configuration settings for the registered identity\n provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/UpdateIdentityProviderSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#required": {}
}
},
"Product": {

"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"UpdateSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings. You can\n update any combination of settings in a single operation such as the: \n \n \n Subnets which you want to add to provision VPC endpoints. \n \n \n Subnets which you want to remove the VPC endpoints from. \n \n \n Security group ID which permits traffic to the VPC endpoints. \n \n ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
"type": "structure",
"members": {
"AddSubnets": {

"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets in which License Manager will create a VPC endpoint for products that\n require connectivity to activation servers. ",
"smithy.api#required": {}
}
},
"RemoveSubnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets to remove. ",
"smithy.api#required": {}
}

```
            },
            "SecurityGroupId": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
                "traits": {
                    "smithy.api#documentation": "<p>A security group ID
 that allows inbound TCP port 1688 communication between resources in\n      your VPC and the VPC endpoints for
activation servers.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Updates the registered identity providers product related configuration
settings such as\n      the subnets to provision VPC endpoints.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A parameter is not valid.</p>",
            "smithy.api#error": "client"
        }
    }
  }
}
{
  "smithy": "2.0",
  "metadata": {
    "suppressions": [
        {
            "id": "HttpMethodSemantics",
            "namespace": "*"
        },
        {
            "id": "HttpResponseCodeSemantics",
            "namespace": "*"
        },
        {
            "id": "PaginatedTrait",
            "namespace": "*"
        },
        {
            "id": "HttpHeaderTrait",
            "namespace": "*"
```

```
        },
        {
            "id": "HttpUriConflict",
            "namespace": "*"
        },
        {
            "id": "Service",
            "namespace": "*"
        }
    ]
},
"shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
        "type": "service",
        "version": "2018-08-01",
        "operations": [
            {
                "target": "com.amazonaws.licensemanager#AcceptGrant"
            },

 {
                "target": "com.amazonaws.licensemanager#CheckInLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CheckoutLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateGrant"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateGrantVersion"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
             },
            {
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"target": "com.amazonaws.licensemanager#CreateLicenseVersion"
},
{
"target": "com.amazonaws.licensemanager#CreateToken"
},
{
"target": "com.amazonaws.licensemanager#DeleteGrant"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicense"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#DeleteToken"
},
{
"target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

},
{
"target": "com.amazonaws.licensemanager#GetAccessToken"
},
{
"target": "com.amazonaws.licensemanager#GetGrant"
},
{
"target": "com.amazonaws.licensemanager#GetLicense"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseUsage"
},
{
"target": "com.amazonaws.licensemanager#GetServiceSettings"
},

{
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#ListDistributedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
"target": "com.amazonaws.licensemanager#ListLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

"target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization"
},
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"target": "com.amazonaws.licensemanager#ListResourceInventory"
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"target": "com.amazonaws.licensemanager#ListTagsForResource"
},
{
"target": "com.amazonaws.licensemanager#ListTokens"

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                "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
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                "target": "com.amazonaws.licensemanager#RejectGrant"
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                "target": "com.amazonaws.licensemanager#TagResource"
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            {
                "target": "com.amazonaws.licensemanager#UntagResource"
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                "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
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                "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
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                "target": "com.amazonaws.licensemanager#UpdateServiceSettings"
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                "sdkId": "License Manager",
                "arnNamespace": "license-manager",
                "cloudFormationName": "LicenseManager",
                "cloudTrailEventSource": "licensemanager.amazonaws.com",
                "endpointPrefix": "license-manager"
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            "aws.auth#sigv4": {
                "name": "license-manager"
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            "aws.protocols#awsJson1_1": {},
            "smithy.api#documentation": "<p>License Manager makes it easier to manage licenses from software
vendors across multiple \n        Amazon Web Services accounts and on-premises servers.</p>",
            "smithy.api#title": "AWS License Manager",
            "smithy.api#xmlNamespace": {
                "uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
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            "smithy.rules#endpointRuleSet": {
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                "parameters": {
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            "Region": {
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              "required": false,
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              "type": "String"
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              "required": true,
              "default": false,
              "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not
support dual-stack, dispatching the request MAY return an error.",
              "type": "Boolean"
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            "UseFIPS": {
              "builtIn": "AWS::UseFIPS",
              "required": true,
              "default": false,
              "documentation": "When true, send
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endpoint, dispatching the request will return an error.",
              "type": "Boolean"
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            "Endpoint": {
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              "required": false,
              "documentation": "Override the endpoint used to send this request",
              "type": "String"
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                  "argv": [
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                      "ref": "Endpoint"
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                  "conditions": [
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            "type": "error"
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            "type": "error"
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            "type": "endpoint"
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"argv": [
{
"ref": "PartitionResult"
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"supportsDualStack"
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"type": "endpoint"
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"type": "error"
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"argv": [
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"type": "error"
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"expect": {
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"params": {
"Region": "af-south-1",
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"UseDualStack": false
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"params": {
"Region": "ap-east-1",
"UseFIPS": false,
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"expect": {
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"params": {
"Region": "ap-northeast-1",
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"UseDualStack": false
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"documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
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"url": "https://license-manager.ap-northeast-2.amazonaws.com"
}
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"params": {
"Region": "ap-northeast-2",
"UseFIPS": false,
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          "expect": {
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            }
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          "params": {
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            "UseFIPS": false,
            "UseDualStack": false
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          "params": {
            "Region": "ap-south-1",
            "UseFIPS": false,
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          "documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
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          "params": {
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            "UseDualStack": false
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          "documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ap-southeast-2.amazonaws.com"
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            "params": {
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                "UseDualStack": false
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            "params": {
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                "UseDualStack": false
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                "UseFIPS": false,
                "UseDualStack": false
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            "documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
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            "params": {
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"documentation": "For region eu-north-1 with FIPS
disabled and DualStack disabled",
"expect": {
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"params": {
"Region": "eu-north-1",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
"expect": {
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"url": "https://license-manager.eu-south-1.amazonaws.com"
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"params": {
"Region":
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"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
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"url": "https://license-manager.eu-west-1.amazonaws.com"
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"params": {
"Region": "eu-west-1",
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"UseDualStack": false
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"documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
"expect": {

"endpoint": {
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                "UseDualStack": false
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            "expect": {
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                "Region": "me-south-1",
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                "UseDualStack": false
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                    "url": "https://license-manager.sa-east-1.amazonaws.com"
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            "params": {
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"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
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"params": {
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"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
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"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
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"documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
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"url": "https://license-manager.us-east-2.amazonaws.com"
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"params": {
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"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
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"endpoint": {
"url": "https://license-manager-fips.us-east-2.amazonaws.com"
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"params": {

"Region": "us-east-2",
"UseFIPS": true,
"UseDualStack": false
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"documentation": "For region
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"UseFIPS": false,
"UseDualStack": false
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"UseDualStack": false
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"documentation": "For region us-west-2 with FIPS enabled and DualStack disabled",

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"UseFIPS": true,
"UseDualStack": false
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"expect": {
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"url": "https://license-manager-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,

"UseDualStack": true
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"expect": {
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"url": "https://license-manager.us-east-1.api.aws"
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"params": {
"Region": "us-east-1",
"UseFIPS": false,
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"endpoint": {
"url":
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"params": {

"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
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"params": {
"Region": "cn-northwest-1",
"UseFIPS": false,
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"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
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"Region": "cn-north-1",
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            "UseDualStack": false
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        "expect": {
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                "url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
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        "params": {
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            "UseFIPS": true,
            "UseDualStack": false
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        "documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
        "expect": {
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                "url": "https://license-manager.us-gov-west-1.amazonaws.com"
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        "params": {
            "Region": "us-gov-west-1",
            "UseFIPS": false,
            "UseDualStack": false
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                    "UseDualStack": false
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disabled",
                "expect": {
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                "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
            }
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        "params": {
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            "UseFIPS": false,
            "UseDualStack": false
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            "UseFIPS": true,
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        }
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            }
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            "Region": "us-iso-east-1",
            "UseFIPS": true,
            "UseDualStack": false
        }
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    {
        "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
        "expect": {
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but this partition does not support DualStack"
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            "Region": "us-iso-east-1",
            "UseFIPS": false,
            "UseDualStack": true
        }
    },
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        "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
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"endpoint": {
"url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
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"UseDualStack": false
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{
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"params": {
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"UseDualStack": false
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"error": "DualStack is enabled but this partition does not support DualStack"
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"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{

"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,

"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error":
"Invalid Configuration: Dualstack and custom endpoint are not supported"
},
"params": {

```
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "Missing region",
            "expect": {
                "error": "Invalid Configuration: Missing Region"
            }
        }
    ],
    "version": "1.0"
  }
}
},
"com.amazonaws.licensemanager#AcceptGrant": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanager#AcceptGrantRequest"

},
  "output": {
    "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanager#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licensemanager#AuthorizationException"
    },
    {
      "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
    },
    {
      "target": "com.amazonaws.licensemanager#RateLimitExceededException"
    },
    {
      "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
    },
    {
      "target": "com.amazonaws.licensemanager#ServerInternalException"
    },
    {
      "target": "com.amazonaws.licensemanager#ValidationException"
```

```
    }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant
ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
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"com.amazonaws.licensemanager#AccessDeniedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {

"code": "ServiceAccessDenied",
"httpResponseCode": 401
},
"smithy.api#documentation": " Access to resource denied. ",
"smithy.api#error": "client",
"smithy.api#httpError": 401
}
},
"com.amazonaws.licensemanager#ActivationOverrideBehavior": {
"type": "enum",
"members": {
"DISTRIBUTED_GRANTS_ONLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
}
},
"ALL_GRANTS_PERMITTED_BY_ISSUER": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
}
}
}
},
"com.amazonaws.licensemanager#AllowedOperation": {

"type": "enum",
"members": {
"CREATE_GRANT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CreateGrant"
}
},
"CHECKOUT_LICENSE": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "CheckoutLicense"
}
},
"CHECKOUT_BORROW_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckoutBorrowLicense"
}
},
"CHECK_IN_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckInLicense"
}
},
"EXTEND_CONSUMPTION_LICENSE":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ExtendConsumptionLicense"
}
},
"LIST_PURCHASED_LICENSES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ListPurchasedLicenses"
}
},
"CREATE_TOKEN": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CreateToken"
}
}
}
},
"com.amazonaws.licensemanager#AllowedOperationList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#AllowedOperation"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max":
7
}
}

```
    },
    "com.amazonaws.licensemanager#Arn": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 2048
            },
            "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-
z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
        }
    },
    "com.amazonaws.licensemanager#ArnList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Arn"
        }
    },
    "com.amazonaws.licensemanager#AuthorizationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError":
 {
                "code": "AuthorizationFailure",
                "httpResponseCode": 403
            },
            "smithy.api#documentation": "<p>The Amazon Web Services user account does not have permission to
perform the action. Check the IAM\n        policy associated with this account.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 403
        }
    },
    "com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
        "type": "structure",
        "members": {
            "LastRunTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
                }
            }
        },
        "traits": {
```

"smithy.api#documentation": " Describes automated discovery. "
}
},

"com.amazonaws.licensemanager#Boolean": {
"type": "boolean",
"traits": {
"smithy.api#default": false
}
},
"com.amazonaws.licensemanager#BorrowConfiguration": {
"type": "structure",
"members": {
"AllowEarlyCheckIn": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether early check-ins are allowed. ",
"smithy.api#required": {}
}
},
"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the borrow configuration, in minutes. ",
"smithy.api#required": {}
}
}

},
"traits": {
"smithy.api#documentation": " Details about a borrow configuration. "
}
},
"com.amazonaws.licensemanager#BoxBoolean": {
"type": "boolean"
},
"com.amazonaws.licensemanager#BoxInteger": {
"type": "integer"
},
"com.amazonaws.licensemanager#BoxLong": {
"type": "long"
},
"com.amazonaws.licensemanager#CheckInLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"

},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks in the specified license. Check in a license when it is no longer in use. "
}
},
"com.amazonaws.licensemanager#CheckInLicenseRequest":
{
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " License beneficiary. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CheckInLicenseResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicense":
{
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{
"target":
"com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{

"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks out the specified license for offline use. "
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
"type": "structure",
"members":
{
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The license must use the borrow consumption configuration. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. Partial checkouts are not supported. ",
"smithy.api#required": {}
}
},
"DigitalSignatureMethod": {
"target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
"traits": {
"smithy.api#documentation": " Digital signature method. The possible value is JSON Web Signature (JWS) algorithm PS384.\n For more information, see RFC 7518 Digital Signature with RSASSA-PSS. ",
"smithy.api#required": {}
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "

```
            }
          },
          "CheckoutMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
              "smithy.api#documentation": "<p>Information about constraints.</p>"
            }
          },
          "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientToken",
            "traits": {
              "smithy.api#documentation":
"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
          },
          "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License consumption token.</p>"
            }
          },
          "EntitlementsAllowed":
{
            "target": "com.amazonaws.licensemanager#EntitlementDataList",
            "traits": {
              "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
            }
          },
          "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Node ID.</p>"
            }
```

```
            },
            "SignedToken": {
                "target": "com.amazonaws.licensemanager#SignedToken",
                "traits": {
                    "smithy.api#documentation": "<p>Signed token.</p>"
                }
            },
            "IssuedAt": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license checkout
is issued.</p>"
                }
            },
            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
                }
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license.</p>\n        <note>\n            <p>If the
 account that created the license is the same that is performing the check out, you must\n            specify the account
 as the beneficiary.</p>\n        </note>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutLicenseRequest": {
        "type": "structure",
        "members": {
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product
 SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "CheckoutType": {
                "target": "com.amazonaws.licensemanager#CheckoutType",
                "traits": {
                    "smithy.api#documentation": "<p>Checkout type.</p>",
                    "smithy.api#required": {}
                }
            },
```

"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Key fingerprint identifying the license. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. ",

"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
"type": "structure",
"members": {
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. "

```
            }
        },
        "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
            }
        },
        "EntitlementsAllowed": {
            "target": "com.amazonaws.licensemanager#EntitlementDataList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
            }
        },
         "SignedToken": {
            "target": "com.amazonaws.licensemanager#SignedToken",
            "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
            }
        },
        "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        },
        "IssuedAt": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
            }
        },
        "Expiration": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date and
time at which the license checkout expires.</p>"
            }
        },
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
```

```
    }
},
"com.amazonaws.licensemanager#CheckoutType": {
    "type": "enum",
    "members": {
        "PROVISIONAL": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PROVISIONAL"
            }
        },
        "PERPETUAL": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PERPETUAL"
            }
        }
    }
},
"com.amazonaws.licensemanager#ClientRequestToken": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 36
        }
    }
},
"com.amazonaws.licensemanager#ClientToken": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 2048
        },
        "smithy.api#pattern": "^\\S+$"
    }
},
"com.amazonaws.licensemanager#ConflictException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "ConflictException",
```

"httpResponseCode":
409
},
"smithy.api#documentation": " There was a conflict processing the request. Try your request again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 409
}
},
"com.amazonaws.licensemanager#ConsumedLicenseSummary": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Resource type of the resource consuming a license. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}
},

"traits": {
"smithy.api#documentation": " Details about license consumption. "
}
},
"com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
}
},
"com.amazonaws.licensemanager#ConsumptionConfiguration": {
"type": "structure",
"members": {
"RenewType": {
"target": "com.amazonaws.licensemanager#RenewType",
"traits": {
"smithy.api#documentation": " Renewal frequency. "
}
},
"ProvisionalConfiguration": {
"target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
"traits": {

"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"BorrowConfiguration": {
"target": "com.amazonaws.licensemanager#BorrowConfiguration",
"traits": {
"smithy.api#documentation": " Details about a borrow configuration. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a consumption configuration. "
}
},
"com.amazonaws.licensemanager#CreateGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target":
"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a grant for the specified license. A grant shares the use of

license\n entitlements with a specific Amazon Web Services account, an organization, or an\n organizational unit (OU). For more
information, see Granted licenses in License Manager in the License Manager User Guide. "
}
},
"com.amazonaws.licensemanager#CreateGrantRequest": {
"type": "structure",
"members": {
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}

}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Principals": {
"target": "com.amazonaws.licensemanager#PrincipalArnList",
"traits": {
"smithy.api#documentation": " The grant principals. You can specify one of the following as an Amazon Resource Name\n (ARN): \n \n \n An Amazon Web Services account, which includes only the account specified. \n \n \n \n \n An organizational unit (OU), which includes all accounts in the OU. \n \n \n \n
\n An organization, which will include all accounts across your organization. \n \n ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

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                "smithy.api#documentation": "<p>Home Region of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "AllowedOperations": {
            "target": "com.amazonaws.licensemanager#AllowedOperationList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed operations for the grant.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},

"com.amazonaws.licensemanager#CreateGrantResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateGrantVersion":
{
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
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        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
             },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information,
see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",

    "smithy.api#required": {}
                }
            },
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
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"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the grant. "
}
},
"Options": {
"target": "com.amazonaws.licensemanager#Options",
"traits": {
"smithy.api#documentation": " The options specified for the grant. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
"type": "structure",
"members": {

"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New version of the grant. "
}
}
},
"traits":
{
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"

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            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license configuration.</p>\n        <p>A license configuration is an abstraction of a customer license agreement that can be\n        consumed and enforced by License Manager. Components include specifications for the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n        Dedicated Instance, Dedicated Host, or
 all of these), license affinity  to host (how long a \n        license must be associated with a host), and the number of licenses purchased and used.</p>"
        }
```

```
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Name of the license configuration.</p>",
            "smithy.api#required": {}
          }
        },
        "Description": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Description of the license configuration.</p>"
          }
        },
        "LicenseCountingType": {
          "target": "com.amazonaws.licensemanager#LicenseCountingType",
           "traits": {
            "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
            "smithy.api#required": {}
          }
        },
        "LicenseCount": {
          "target": "com.amazonaws.licensemanager#BoxLong",
          "traits": {
            "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
          }
        },
        "LicenseCountHardLimit": {
          "target": "com.amazonaws.licensemanager#BoxBoolean",
          "traits": {
            "smithy.api#documentation": "<p>Indicates whether hard or soft license enforcement is used.
Exceeding a hard limit\n        blocks the launch of new instances.</p>"
          }
        },
        "LicenseRules": {
          "target":
 "com.amazonaws.licensemanager#StringList",
          "traits": {
            "smithy.api#documentation": "<p>License rules. The syntax is #name=value (for example,
#allowedTenancy=EC2-DedicatedHost). The available rules \n        vary by dimension, as follows.</p>\n
<ul>\n          <li>\n            <p>\n              <code>Cores</code> dimension: <code>allowedTenancy</code> |\n
          <code>licenseAffinityToHost</code> |\n            <code>maximumCores</code> |
<code>minimumCores</code>\n            </p>\n          </li>\n          <li>\n            <p>\n
<code>Instances</code> dimension: <code>allowedTenancy</code> | \n            <code>maximumCores</code> |
<code>minimumCores</code> |\n            <code>maximumSockets</code> | <code>minimumSockets</code> |\n
```

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        <code>maximumVcpus</code> | <code>minimumVcpus</code>\n            </p>\n          </li>\n
<li>\n
  <p>\n                <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n
<code>licenseAffinityToHost</code> |\n            <code>maximumSockets</code> |
<code>minimumSockets</code>\n            </p>\n          </li>\n          <li>\n            <p>\n
<code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n
<code>honorVcpuOptimization</code> | \n            <code>maximumVcpus</code> |
<code>minimumVcpus</code>\n            </p>\n          </li>\n        </ul>\n        <p>The unit for
<code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n        values for
<code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n
<code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n
<code>True</code> and <code>False</code>.</p>"
            }
          },

  "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
              "smithy.api#documentation": "<p>Tags to add to the license configuration.</p>"
            }
          },
          "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
          },
          "ProductInformationList": {
            "target": "com.amazonaws.licensemanager#ProductInformationList",
            "traits": {
              "smithy.api#documentation": "<p>Product information.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse":
 {
        "type": "structure",
        "members": {
          "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
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            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {

                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
                    "smithy.api#required": {}
```

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            }
        },
        "SourceLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information that identifies the license type you are converting
from. \n\n        For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                "smithy.api#required": {}
            }
        },
        "DestinationLicenseContext":
 {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information that identifies the license type you are converting to.
For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
    "type": "structure",
    "members": {
        "LicenseConversionTaskId": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

   "traits": {
                "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
    },
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        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "ReportGeneratorName":
{
                "target": "com.amazonaws.licensemanager#ReportGeneratorName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>",
                    "smithy.api#required": {}
                }
            },
            "Type": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports to generate. The following report types an be
```

generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}

}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " Defines the type of license configuration the report generator tracks. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}

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    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
      "type": "structure",
      "members": {
        "LicenseManagerReportGeneratorArn":
{
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the new report
generator.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#CreateLicenseRequest": {
      "type": "structure",
      "members": {
        "LicenseName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License name.</p>",
            "smithy.api#required": {}
          }
        },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product
name.</p>",
            "smithy.api#required": {}
          }
        },
        "ProductSKU": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product SKU.</p>",
            "smithy.api#required": {}
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#Issuer",
          "traits": {
            "smithy.api#documentation": "<p>License issuer.</p>",
            "smithy.api#required": {}
          }
```

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            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Home Region for the license.</p>",
                    "smithy.api#required": {}

    }
            },
            "Validity": {
                "target": "com.amazonaws.licensemanager#DatetimeRange",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",
                    "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>",
                    "smithy.api#required": {}
                }
             },
            "ConsumptionConfiguration": {
                "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n          running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n          usage.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
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"traits": {
"smithy.api#documentation":
" Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"

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            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
             },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target":
"com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
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"smithy.api#documentation": " Product name. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits":
{
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}

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            },

  "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>",
                    "smithy.api#required": {}
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>"
                }
            }
        },
        "traits": {

 "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>License ARN.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>New version of the license.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>"
```

```
            }
          }
        },
        "traits": {
          "smithy.api#output":
{}
        }
      },
      "com.amazonaws.licensemanager#CreateToken": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateTokenRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateTokenResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#RedirectException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },

      {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Creates a long-lived token.</p>\n        <p>A refresh token is a JWT
token used to get an access token. With an access token,\n        you can call AssumeRoleWithWebIdentity to get
role credentials that you can use to \n        call License Manager to manage the specified license.</p>"
        }
```

```
    },
    "com.amazonaws.licensemanager#CreateTokenRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits":
 {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The ARN is
mapped to the aud claim of the\n         JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "RoleArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the IAM roles to embed in the
token. \n         License Manager does not check whether the roles are in use.</p>"
                }
            },
            "ExpirationInDays": {
                "target": "com.amazonaws.licensemanager#Integer",
                "traits": {
                    "smithy.api#documentation": "<p>Token expiration, in days, counted from token creation. The
default is 365 days.</p>"
                }
            },
            "TokenProperties": {
                 "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Data specified by the caller to be included in the JWT token. The
data is mapped\n         to the amr claim of the JWT token.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Idempotency token, valid for 10 minutes.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateTokenResponse": {
        "type": "structure",
```

```
    "members": {
      "TokenId": {
        "target": "com.amazonaws.licensemanager#String",

       "traits": {
          "smithy.api#documentation": "<p>Token ID.</p>"
        }
      },
      "TokenType": {
        "target": "com.amazonaws.licensemanager#TokenType",
        "traits": {
          "smithy.api#documentation": "<p>Token type.</p>"
        }
      },
      "Token": {
        "target": "com.amazonaws.licensemanager#TokenString",
        "traits": {
          "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#DateTime": {
    "type": "timestamp"
  },
  "com.amazonaws.licensemanager#DatetimeRange": {
    "type": "structure",
    "members": {
      "Begin": {
         "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
          "smithy.api#documentation": "<p>Start of the time range.</p>",
          "smithy.api#required": {}
        }
      },
      "End": {
        "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
          "smithy.api#documentation": "<p>End of the time range.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
    }
```

```
    },
    "com.amazonaws.licensemanager#DeleteGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes
the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "StatusReason": {
```

"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " The Status reason for the delete request. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the
grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation":
" Grant version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteLicense": {
"type": "operation",
"input": {

"target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license configuration.</p>\n        <p>You cannot
delete a license configuration that is in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
        "type": "structure",
        "members":
 {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
        },
        "output": {
```

"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified report generator. \n This action deletes the report generator, which stops it from generating future reports.\n The action cannot be reversed. It has no effect on the previous reports from this generator. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to be deleted. ",
"smithy.api#required": {}
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. ",
"smithy.api#required":
{}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseResponse": {
"type": "structure",
"members": {
"Status": {
"target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"DeletionDate": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date when the license is deleted. "
}
}

```
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteToken": {
        "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },

    {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

"smithy.api#documentation": " Token ID. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteTokenResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}

}
},
"com.amazonaws.licensemanager#DigitalSignatureMethod": {
"type": "enum",
"members": {
"JWT_PS384": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "JWT_PS384"
}
}
}
},
"com.amazonaws.licensemanager#Entitlement": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement resource. Use only
if the unit is None. "
}
},
"MaxCount": {
"target": "com.amazonaws.licensemanager#Long",
"traits": {

"smithy.api#documentation": " Maximum entitlement count. Use if the unit is not None. "
}
},
"Overage": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether overages are allowed. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementUnit",
"traits": {
"smithy.api#documentation": " Entitlement unit. ",
"smithy.api#required": {}
}
},
"AllowCheckIn": {
"target":
"com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether check-ins are allowed. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a resource entitled for use with a license. "
}
},
"com.amazonaws.licensemanager#EntitlementData": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement
data value. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {

"smithy.api#documentation": " Entitlement data unit. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Data associated with an entitlement resource. "
}
},
"com.amazonaws.licensemanager#EntitlementDataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#EntitlementData"
}
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
"type": "enum",
"members": {
"COUNT": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Count"
}
},
"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"SECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Seconds"
}
},
"MICROSECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Microseconds"
}
},
"MILLISECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Milliseconds"
}

```
        },
        "BYTES": {
          "target": "smithy.api#Unit",
           "traits": {
             "smithy.api#enumValue": "Bytes"
          }
        },
        "KILOBYTES": {
          "target": "smithy.api#Unit",
          "traits": {
             "smithy.api#enumValue": "Kilobytes"
          }
        },
        "MEGABYTES": {
          "target": "smithy.api#Unit",
          "traits": {
             "smithy.api#enumValue": "Megabytes"
          }
        },
        "GIGABYTES": {
          "target": "smithy.api#Unit",
          "traits": {
             "smithy.api#enumValue": "Gigabytes"
          }
        },
        "TERABYTES": {
          "target": "smithy.api#Unit",
          "traits": {
             "smithy.api#enumValue": "Terabytes"
          }
        },
        "BITS":
{
          "target": "smithy.api#Unit",
          "traits": {
             "smithy.api#enumValue": "Bits"
          }
        },
        "KILOBITS": {
          "target": "smithy.api#Unit",
          "traits": {
             "smithy.api#enumValue": "Kilobits"
          }
        },
        "MEGABITS": {
          "target": "smithy.api#Unit",
          "traits": {
             "smithy.api#enumValue": "Megabits"
```

```
            }
        },
        "GIGABITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabits"
            }
        },
        "TERABITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits"

}
        },
        "PERCENT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Percent"
            }
        },
        "BYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bytes/Second"
            }
        },
        "KILOBYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes/Second"
            }
        },
        "MEGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes/Second"
            }
        },
        "GIGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Gigabytes/Second"
            }
        },
        "TERABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
```

"smithy.api#enumValue": "Terabytes/Second"
}
},
"BITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits/Second"
}
},
"KILOBITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits/Second"
}
},
"MEGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue":
"Megabits/Second"
}
},
"GIGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits/Second"
}
},
"TERABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits/Second"
}
},
"COUNT_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count/Second"
}
}
}
},
"com.amazonaws.licensemanager#EntitlementList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Entitlement"
}
},

"com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The entitlement is not allowed. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#EntitlementUnit": {
"type": "enum",
"members": {
"COUNT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count"
}
},
"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"SECONDS":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Seconds"
}
},
"MICROSECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Microseconds"
}
},
"MILLISECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Milliseconds"
}
},

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"BYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Bytes"
    }
},
"KILOBYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Kilobytes"
     }
},
"MEGABYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Megabytes"
    }
},
"GIGABYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Gigabytes"
    }
},
"TERABYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Terabytes"
    }
},
"BITS": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Bits"
    }
},
"KILOBITS": {
    "target": "smithy.api#Unit",
    "traits": {

     "smithy.api#enumValue": "Kilobits"
    }
},
"MEGABITS": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Megabits"
    }
```

```
            },
            "GIGABITS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Gigabits"
                }
            },
            "TERABITS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Terabits"
                }
            },
            "PERCENT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Percent"
                }
            },
            "BYTES_PER_SECOND": {
                "target":
"smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Bytes/Second"
                }
            },
            "KILOBYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Kilobytes/Second"
                }
            },
            "MEGABYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Megabytes/Second"
                }
            },
            "GIGABYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Gigabytes/Second"
                }
            },
            "TERABYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
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"smithy.api#enumValue": "Terabytes/Second"
}
},
"BITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits/Second"
}
},
"KILOBITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits/Second"
}
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"MEGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits/Second"
}
},
"GIGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits/Second"
}
},

"TERABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits/Second"
}
},
"COUNT_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count/Second"
}
}
}
},
"com.amazonaws.licensemanager#EntitlementUsage": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Entitlement usage name. ",
"smithy.api#required": {}
}
},
"ConsumedValue": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Resource usage consumed. ",
"smithy.api#required": {}
}
},
"MaxCount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Maximum entitlement usage count. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {
"smithy.api#documentation": " Entitlement usage unit. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Usage associated with an entitlement resource. "
}
},
"com.amazonaws.licensemanager#EntitlementUsageList":
{
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#EntitlementUsage"
}
},
"com.amazonaws.licensemanager#ExtendLicenseConsumption": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"

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            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}

      }
            },
            "DryRun": {
                "target": "com.amazonaws.licensemanager#Boolean",
                "traits": {
                    "smithy.api#default": false,
                    "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
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"com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},

"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license consumption expires. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#FailedDependencyException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
},
"ErrorCode": {
"target": "com.amazonaws.licensemanager#String"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FailedDependency",
"httpResponseCode": 424
},
"smithy.api#documentation":
" A dependency required to run the API is missing. ",
"smithy.api#error": "client",
"smithy.api#httpError": 424
}
},
"com.amazonaws.licensemanager#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#FilterName",
"traits": {

"smithy.api#documentation": " Name of the filter. Filter names are case-sensitive. "
}
},
"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " The value of the filter, which is case-sensitive. You can only specify one value for the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter name and value pair that is used to return more specific results from a\n describe operation. Filters can be used to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FilterLimitExceeded",
"httpResponseCode": 400
},
"smithy.api#documentation": " The request uses too many filters or too many filter values. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter"
}
},
"com.amazonaws.licensemanager#FilterName": {
"type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
"type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
"type": "list",

"member": {
"target": "com.amazonaws.licensemanager#FilterValue",
"traits": {
"smithy.api#xmlName": "item"
}
}
},
"com.amazonaws.licensemanager#Filters": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter",
"traits": {
"smithy.api#xmlName": "item"
}
}
},
"com.amazonaws.licensemanager#GetAccessToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access tokens\n are valid for one hour. "
}
},
"com.amazonaws.licensemanager#GetAccessTokenRequest": {

"type": "structure",
"members": {
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token, encoded as a JWT token. ",
"smithy.api#required": {}
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Token properties to validate against those present in the JWT token. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetAccessTokenResponse": {
"type": "structure",
"members": {
"AccessToken": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Temporary access token. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

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        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"

    },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
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"Grant": {
"target": "com.amazonaws.licensemanager#Grant",
"traits": {
"smithy.api#documentation": " Grant details. "
}
}
},
"traits": {

"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"

},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
"type": "operation",
"input": {

"target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license configuration. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
}
},
"traits":
{
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationId": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Unique ID for the license configuration. "
}
},
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension for which the licenses are counted. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",

"traits": {
"smithy.api#documentation": " Number of available licenses. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Sets the number of available licenses as a hard limit. "
}
},

"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses assigned to resources. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License configuration status. "
}

},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}

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            },
            "DisassociateWhenNotFound": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>When
true, disassociates a resource when software is uninstalled.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConversionTask": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {

 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
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"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted to. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",

"traits": {
"smithy.api#documentation": " Status of the license type conversion task. "
}
},

"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was started . "
}
},
"LicenseConversionTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Amount of time to complete the license type conversion. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was completed. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},

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            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

          },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
                    "smithy.api#required":
 {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {
            "ReportGenerator": {
                "target": "com.amazonaws.licensemanager#ReportGenerator",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            }
        },
```

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseResponse": {
"type": "structure",
"members": {
"License": {
"target": "com.amazonaws.licensemanager#License",
"traits": {
"smithy.api#documentation": " License details. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},

"com.amazonaws.licensemanager#GetLicenseUsage": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"

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        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {

  "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
        }
      },
      "com.amazonaws.licensemanager#GetLicenseUsageRequest": {
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#GetLicenseUsageResponse": {
        "type": "structure",
        "members": {
          "LicenseUsage": {
            "target":
"com.amazonaws.licensemanager#LicenseUsage",
            "traits": {
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"smithy.api#documentation": " License usage details. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets the License Manager settings for the current Region. "
}
},
"com.amazonaws.licensemanager#GetServiceSettingsRequest": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Regional S3 bucket path for storing reports, license trail event data,

discovery data,\n and so on. "

}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " SNS topic configured to receive notifications from License Manager. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Indicates whether Organizations is integrated with License Manager for\n cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether cross-account discovery is enabled. "
}

},
"LicenseManagerResourceShareArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource share. The License Manager management account \n provides member accounts with access to this share. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#Grant": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"ParentArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Parent ARN. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. ",
"smithy.api#required": {}
}
},
"GranteePrincipalArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " The grantee principal ARN. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "

```
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Granted operations.</p>",
                    "smithy.api#required": {}
                }
            },
            "Options": {
                "target": "com.amazonaws.licensemanager#Options",
                "traits": {
                    "smithy.api#documentation": "<p>The options specified for the grant.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
"<p>Describes a grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#GrantList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Grant"
        }
    },
    "com.amazonaws.licensemanager#GrantStatus": {
        "type": "enum",
        "members": {
            "PENDING_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_WORKFLOW"
                }
            },
            "PENDING_ACCEPT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_ACCEPT"
                }
```

```
            },
            "REJECTED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "REJECTED"

            }
            },
            "ACTIVE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "ACTIVE"
                }
            },
            "FAILED_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "FAILED_WORKFLOW"
                }
            },
            "DELETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DELETED"
                }
            },
            "PENDING_DELETE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_DELETE"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                "traits":
{
                    "smithy.api#enumValue": "DISABLED"
                }
            },
            "WORKFLOW_COMPLETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "WORKFLOW_COMPLETED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GrantedLicense": {
```

"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. "
}

},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " Granted license issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the granted license. "

}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " Granted license status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",

"traits": {
"smithy.api#documentation": " Date and time range during which the granted license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Granted license beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Granted license metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Creation time of the granted license. "

}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Version of the granted license. "
}
},
"ReceivedMetadata": {
"target": "com.amazonaws.licensemanager#ReceivedMetadata",
"traits": {
"smithy.api#documentation": " Granted license received metadata. "
}
}

```
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes a license that is granted to a grantee.</p>"
        }
    },
    "com.amazonaws.licensemanager#GrantedLicenseList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#GrantedLicense"
        }
    },
    "com.amazonaws.licensemanager#ISO8601DateTime":
{
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            },
            "smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-
1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[ 0-3]|[0-1][0-9]):[0-5][0-9])+$"
        }
    },
    "com.amazonaws.licensemanager#Integer": {
        "type": "integer"
    },
    "com.amazonaws.licensemanager#InvalidParameterValueException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidParameterValueProvided",
                "httpResponseCode": 400
            },
            "smithy.api#documentation":
"<p>One or more parameter values are not valid.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InvalidResourceStateException": {
        "type": "structure",
        "members": {
            "Message": {
```

"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidResourceState",
"httpResponseCode": 400
},
"smithy.api#documentation": " License Manager cannot allocate a license to a resource because of its state. \n For example, you cannot allocate a license to an instance in the process of shutting\n down. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},

"com.amazonaws.licensemanager#InventoryFilter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the filter. ",
"smithy.api#required": {}
}
},
"Condition": {
"target": "com.amazonaws.licensemanager#InventoryFilterCondition",
"traits": {
"smithy.api#documentation": " Condition of the filter. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Value of the filter. "
}
}

},
"traits": {
"smithy.api#documentation": " An inventory filter. "
}
},
"com.amazonaws.licensemanager#InventoryFilterCondition": {
"type": "enum",
"members": {

"EQUALS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "EQUALS"
}
},
"NOT_EQUALS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "NOT_EQUALS"
}
},
"BEGINS_WITH": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "BEGINS_WITH"
}
},
"CONTAINS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CONTAINS"
}
}
}
},
"com.amazonaws.licensemanager#InventoryFilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#InventoryFilter"
}
},
"com.amazonaws.licensemanager#Issuer": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. ",
"smithy.api#required": {}
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage

of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about the issuer of a license. "
}
},
"com.amazonaws.licensemanager#IssuerDetails": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. "
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer key fingerprint. "
}
}
},
"traits": {
"smithy.api#documentation": " Details associated with the issuer of a license. "
}
},
"com.amazonaws.licensemanager#License": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " License name. "
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " License issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Home Region of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},

"Entitlements": {

"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " License metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License
creation time. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#documentation": " Software license that is managed in License Manager. "
}
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
"type": "structure",
"members": {
"LicenseConfigurationId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Unique ID of the license configuration. "
}
},
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension to use to track the license inventory. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Number of available licenses as a hard limit. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
},
"ConsumedLicenses": {

"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the license configuration. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the license configuration's owner. "

}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for licenses consumed by various resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {

"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n

Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource consuming licenses. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " Time when the license configuration was associated with the resource. "
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an association with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
"type": "list",

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        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
        "type": "enum",
        "members":
{
            "AVAILABLE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "AVAILABLE"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DISABLED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits":
{
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceStatus": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Status of the resource.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
```

```
            }
        },
        "AssociationTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time when the license configuration was initially associated with
the resource.</p>"
            }
        },

    "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about the usage of a resource associated with a license
configuration.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
    }
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#LicenseConfiguration"
    }
},
"com.amazonaws.licensemanager#LicenseConversionContext": {

  "type": "structure",
    "members": {
        "UsageOperation": {
            "target": "com.amazonaws.licensemanager#UsageOperation",
            "traits": {
                "smithy.api#documentation": "<p>The Usage operation value that corresponds to the license type you
are converting your resource from.  For more information about which platforms correspond to which usage
operation values see <a href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-
fields.html#billing-info\">Sample data: usage operation by platform\n      </a>\n         </p>"
            }
        }
    },
```

"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTask": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {

"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource associated with the license type\n conversion task. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted to. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " The status of the conversion task. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},

"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation":
" The time the conversion task was started at. "
}
},
"LicenseConversionTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the usage operation value of the resource was changed. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was completed. "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTaskId": {
"type": "string",
"traits": {

"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
}
},
"com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
"type": "enum",
"members": {
"IN_PROGRESS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "IN_PROGRESS"
}
},
"SUCCEEDED": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "SUCCEEDED"
}
},
"FAILED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "FAILED"
}
}
}
},
"com.amazonaws.licensemanager#LicenseConversionTasks":
{
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConversionTask"
}
},
"com.amazonaws.licensemanager#LicenseCountingType": {
"type": "enum",
"members": {
"VCPU": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "vCPU"
}
},
"INSTANCE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Instance"
}
},
"CORE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Core"
}
},
"SOCKET": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Socket"
}
}
}
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {

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    "type": "enum",
    "members": {
        "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {

    "type": "structure",
    "members": {
        "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
        },
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Resource type.</p>"
            }
        },
        "ErrorMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Error message.</p>"
            }
        },
        "FailureTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
```

"smithy.api#documentation": " Failure time. "
}
},
"OperationName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the operation. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource. "
}
},
"OperationRequestedBy": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The requester is \"License Manager Automated Discovery\". "
}
},
"MetadataList": {

"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Reserved. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the failure of a license operation. "
}
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailure"
}
},
"com.amazonaws.licensemanager#LicenseSpecification": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",

"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseSpecification"
}
},
"com.amazonaws.licensemanager#LicenseStatus": {
"type": "enum",
"members": {
"AVAILABLE": {
"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "AVAILABLE"
}
},
"PENDING_AVAILABLE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_AVAILABLE"
}
},
"DEACTIVATED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DEACTIVATED"
}
},
"SUSPENDED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SUSPENDED"

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            }
        },
        "EXPIRED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EXPIRED"
            }
        },

    "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseUsage": {
    "type": "structure",
    "members": {
        "EntitlementUsages": {
            "target": "com.amazonaws.licensemanager#EntitlementUsageList",
            "traits": {
                "smithy.api#documentation": "<p>License entitlement usages.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes the entitlement usage associated with a license.</p>"

    }
},
"com.amazonaws.licensemanager#LicenseUsageException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "LicenseUsageFailure",
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"httpResponseCode": 412
},
"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the resource associations for the specified license configuration. \n Resource associations need not consume licenses from a license configuration. \n For example, an AMI or a stopped instance might not consume a license (depending on \n the license rules). "
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results
to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationAssociations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license
configuration. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",

"input": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants distributed for the specified license. "
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>LicenseArn</code>\n \n

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</li>\n <li>\n <p>\n <code>GrantStatus</code>\n </p>\n </li>\n
<li>\n <p>\n <code>GranteePrincipalARN</code>\n </p>\n </li>\n
<li>\n <p>\n <code>ProductSKU</code>\n </p>\n </li>\n <li>\n
<p>\n <code>LicenseIssuerName</code>\n
</p>\n </li>\n </ul>"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": "<p>Token for the next set of results.</p>"
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",

"traits": {
"smithy.api#documentation": "<p>Distributed grant details.</p>"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": "<p>Token for the next set of results.</p>"
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
"type": "operation",
"input": {
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"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configuration operations that failed. "
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name of the license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}

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            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse":
{
        "type": "structure",
        "members": {
            "LicenseOperationFailureList": {
                "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
                "traits": {
                    "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurations": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },

    "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations
 for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next
 set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n                Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n            Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n                <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n            Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n
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</li>\n <li>\n <p>\n <code>usagelimitExceeded</code> - A Boolean value that indicates whether the available licenses have been exceeded. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n </li>\n </ul>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
        "type": "structure",
        "members": {
          "LicenseConfigurations": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurations",
            "traits": {
              "smithy.api#documentation": "<p>Information about the license configurations.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",

         "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseConversionTasks": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
        "type": "structure",
        "members": {
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {

    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>\n        Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n      </p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTasks": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configuration tasks for your
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account. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target":
"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}

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        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the report generators for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest":
{
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:
</p>\n        <ul>\n            <li>\n                <p>\n                    <code>LicenseConfigurationArn</code>\n
</p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits":
{
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
            "ReportGenerators": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorList",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

"smithy.api#documentation": " Token for the next set of results. "
}

}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Describes the license configurations for the specified resource. "
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a resource that has an associated license configuration. ",
"smithy.api#required": {}
}

```
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {

    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {
        "LicenseSpecifications": {
            "target": "com.amazonaws.licensemanager#LicenseSpecifications",
            "traits": {
                "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
            }
        },
        "NextToken": {
             "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
```

```
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
              "smithy.api#documentation": "<p>License details.</p>"
            }
          },

"NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenses": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicensesRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicensesResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
           },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
```

"traits": {
"smithy.api#documentation": " Lists the licenses for your account. "
}
},
"com.amazonaws.licensemanager#ListLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>Status</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#LicenseList",
"traits": {

"smithy.api#documentation": " License details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists grants that are received. Received grants are grants created while

specifying the\n recipient as this Amazon Web Services account, your organization, or an organizational unit\n (OU) to which this member account belongs. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target":
"com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants received for all accounts in the organization. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the received license. ",
"smithy.api#required": {}

```
            }
        },
        "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
                "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n
    <ul>\n        <li>\n        <p>\n        <code>ParentArn</code>\n        </p>\n        </li>\n
<li>\n        <p>\n        <code>GranteePrincipalArn</code>\n        </p>\n        </li>\n        </ul>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse":
{
    "type": "structure",
    "members": {
        "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
            "traits": {
                "smithy.api#documentation": "<p>Lists the grants the organization has received.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
```

```
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
      "type": "structure",
      "members": {
        "GrantArns": {
          "target": "com.amazonaws.licensemanager#ArnList",
           "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
          }
        },
        "Filters": {
          "target": "com.amazonaws.licensemanager#FilterList",
          "traits": {
            "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n            </p>\n
      </li>\n          <li>\n            <p>\n              <code>LicenseIssuerName</code>\n            </p>\n
</li>\n          <li>\n            <p>\n              <code>LicenseArn</code>\n            </p>\n          </li>\n
<li>\n            <p>\n              <code>GrantStatus</code>\n            </p>\n          </li>\n          <li>\n
<p>\n
      <code>GranterAccountId</code>\n            </p>\n          </li>\n        </ul>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#MaxSize100",
          "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
      "type": "structure",
      "members": {
        "Grants": {
          "target": "com.amazonaws.licensemanager#GrantList",
           "traits": {
            "smithy.api#documentation": "<p>Received grant details.</p>"
          }
        },
```

```
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
         },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists received licenses.</p>"
    }
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
```

```
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {

    "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the licenses received for all accounts in the organization.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>Beneficiary</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                <code>ProductSKU</code>\n
            </p>\n            </li>\n        </ul>"
                }
            },
```

```
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
    "type": "structure",
    "members": {
        "Licenses": {
            "target": "com.amazonaws.licensemanager#GrantedLicenseList",
             "traits": {
                "smithy.api#documentation": "<p>Lists the licenses the organization has received.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
    "type": "structure",
    "members": {
        "LicenseArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
            }
        },
```

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>IssuerName</code>\n \n \n \n \n <code>Beneficiary</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#GrantedLicenseList",
"traits": {
"smithy.api#documentation": " Received license details. "
}
},

"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}

```
},
"com.amazonaws.licensemanager#ListResourceInventory": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#FailedDependencyException"
        },
        {
            "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
    }
},
"com.amazonaws.licensemanager#ListResourceInventoryRequest": {
    "type": "structure",
    "members": {
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#InventoryFilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n
\n \n \n <code>application_name</code> - The name of the application. \n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n
\n \n \n <code>license_included</code> - The type of license included. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n Possible values are <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n
\n <code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n \n \n \n
<code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n
<code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account). \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListResourceInventoryResponse": {
"type": "structure",
"members": {
"ResourceInventoryList": {
"target": "com.amazonaws.licensemanager#ResourceInventoryList",
"traits": {
"smithy.api#documentation": " Information about the resources. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {

"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListTagsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the tags for the specified license configuration. "
}
},
"com.amazonaws.licensemanager#ListTagsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",

"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}

```
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the tags.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors":
[
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
```

```
            "TokenIds": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {

                  "smithy.api#documentation": "<p>Token IDs.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
    <ul>\n            <li>\n              <p>\n                <code>LicenseArns</code>\n              </p>\n            </li>\n
</ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation":
 "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokensResponse": {
        "type": "structure",
        "members": {
            "Tokens": {
                "target": "com.amazonaws.licensemanager#TokenList",
                "traits": {
                    "smithy.api#documentation": "<p>Received token details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
```

```
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
             {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying
license\n        consumption details by resource at a selected point in time. Use this action to audit the\n        current
license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
```

"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>resourceArn</code> - The ARN of the license configuration resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceAccount</code> - The ID of the account that owns the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
"type": "structure",
"members": {

"LicenseConfigurationUsageList": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#Location": {
"type": "string"
},
"com.amazonaws.licensemanager#Long": {
"type": "long"
},
"com.amazonaws.licensemanager#ManagedResourceSummary": {
"type": "structure",
"members": {
"ResourceType":
{
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of resource associated with a license. "
}
},
"AssociationCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of resources associated with licenses. "
}
}
},
"traits": {
"smithy.api#documentation": " Summary information about a managed resource. "
}
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummary"
}
},
"com.amazonaws.licensemanager#MaxSize100": {

"type": "integer",
"traits": {
"smithy.api#range": {
"min": 1,
"max": 100

```
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The key name.</p>"
            }
        },

"Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The value.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes key/value pairs.</p>"
    }
},
"com.amazonaws.licensemanager#MetadataList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Metadata"
    }
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
    "type": "structure",
    "members": {
```

"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#Options": {
"type": "structure",
"members": {
"ActivationOverrideBehavior": {
"target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
"traits": {
"smithy.api#documentation": " An activation option for your grant that determines the behavior of activating a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter. \n \n \n As a license administrator, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant. \n \n \n As a grantor, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your organization. \n \n \n As a grantee, if the grantor creating the distributed grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n are activating the grant. \n \n \n <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n Use this value to activate a grant without replacing any member accounts\n active grants for the same product. \n </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n Use this value to activate a grant and disable other active grants in any\n member accounts
for the same product. This action will also replace their\n previously activated grants with this activated grant. \n </dd>\n </dl>"
}
}
},
"traits": {
"smithy.api#documentation": " The options you can specify when you create a new version of a grant, such as activation\n override behavior. For more information, see Granted licenses in License Manager in the License Manager User Guide. "
}
},
"com.amazonaws.licensemanager#OrganizationConfiguration": {
"type": "structure",
"members": {
"EnableIntegration": {
"target": "com.amazonaws.licensemanager#Boolean",

"traits": {
"smithy.api#default": false,
"smithy.api#documentation":
" Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Resource type. The
possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a
<code>ProductInformationFilterComparator</code> which is a logical operator, a
<code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a
<code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values
for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for
<code>ProductInformationFilterComparator</code>. \n The following filters and are supported when
the resource type \n is <code>SSM_MANAGED</code>: \n
\n \n \n <code>Application Name</code> - The name of the
application.\n Logical operator is <code>EQUALS</code>. \n \n \n
\n <code>Application Publisher</code> - The publisher of the application.\n Logical

operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n Logical operator is <code>EQUALS</code>. \n
\n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n <code>diagnostic pack sqlt</code> | \n
<code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n
\n ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information for a license configuration. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
"type": "structure",
"members": {
"ProductInformationFilterName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Filter name. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterValue": {
"target": "com.amazonaws.licensemanager#StringList",

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        "traits": {
            "smithy.api#documentation": "<p>Filter value.</p>"
        }
      },
      "ProductInformationFilterComparator": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Logical operator.</p>",
            "smithy.api#required": {}
        }
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>Describes product information filters.</p>"
    }
  },
  "com.amazonaws.licensemanager#ProductInformationFilterList": {
    "type": "list",
    "member": {
      "target": "com.amazonaws.licensemanager#ProductInformationFilter"
    }
  },
  "com.amazonaws.licensemanager#ProductInformationList": {
    "type": "list",
    "member": {
      "target": "com.amazonaws.licensemanager#ProductInformation"
     }
  },
  "com.amazonaws.licensemanager#ProvisionalConfiguration": {
    "type": "structure",
    "members": {
      "MaxTimeToLiveInMinutes": {
        "target": "com.amazonaws.licensemanager#BoxInteger",
        "traits": {
            "smithy.api#documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>",
            "smithy.api#required": {}
        }
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
    }
  },
  "com.amazonaws.licensemanager#RateLimitExceededException": {
    "type": "structure",
    "members": {
      "Message": {
        "target": "com.amazonaws.licensemanager#Message"
```

```
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "RateLimitExceeded",
                "httpResponseCode": 429
            },
            "smithy.api#documentation": "<p>Too many requests have been submitted. Try again after a brief
wait.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 429
        }
    },
    "com.amazonaws.licensemanager#ReceivedMetadata": {
        "type": "structure",
        "members": {
            "ReceivedStatus": {
                "target": "com.amazonaws.licensemanager#ReceivedStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Received status.</p>"
                }
            },
            "ReceivedStatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>Received
status reason.</p>"
                }
            },
            "AllowedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed operations.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Metadata associated with received licenses and grants.</p>"
        }
    },
    "com.amazonaws.licensemanager#ReceivedStatus": {
        "type": "enum",
        "members": {
            "PENDING_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_WORKFLOW"
                }
```

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            },
            "PENDING_ACCEPT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue":
"PENDING_ACCEPT"
                }
            },
            "REJECTED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "REJECTED"
                }
            },
            "ACTIVE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "ACTIVE"
                }
            },
            "FAILED_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "FAILED_WORKFLOW"
                }
            },
            "DELETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DELETED"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                 "traits": {
                    "smithy.api#enumValue": "DISABLED"
                }
            },
            "WORKFLOW_COMPLETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "WORKFLOW_COMPLETED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#RedirectException": {
        "type": "structure",
```

"members": {
"Location": {
"target": "com.amazonaws.licensemanager#Location",
"traits": {
"smithy.api#httpHeader": "Location"
}
},
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " This is not the correct Region for the resource. Try again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 308
}
},
"com.amazonaws.licensemanager#RejectGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#RejectGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#RejectGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}

}
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#RenewType":
```

{
"type": "enum",
"members": {
"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"WEEKLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Weekly"
}
},
"MONTHLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Monthly"
}
}
}
},
"com.amazonaws.licensemanager#ReportContext": {
"type": "structure",
"members": {
"licenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details of the license configuration that this generator reports on. "
}
},
"com.amazonaws.licensemanager#ReportFrequency": {
"type": "structure",
"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "

```
                }
            },
            "period": {
                "target": "com.amazonaws.licensemanager#ReportFrequencyType",

               "traits": {
                    "smithy.api#documentation": "<p>Time period between each report. The period can be daily, weekly,
or monthly.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
        }
    },
    "com.amazonaws.licensemanager#ReportFrequencyType": {
        "type": "enum",
        "members": {
            "DAY": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DAY"
                }
            },
            "WEEK": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "WEEK"
                }
            },
            "MONTH": {
                "target": "smithy.api#Unit",
                "traits":
 {
                    "smithy.api#enumValue": "MONTH"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ReportGenerator": {
        "type": "structure",
        "members": {
            "ReportGeneratorName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>"
                }
            },
```

"ReportType": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports that are generated. "
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " License
configuration type for this generator. "
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. "
}
},
"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}
},
"LastRunFailureReason":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Failure message for the last report generation attempt. "
}
},
"LastReportGenerationTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the last report was generated at. "
}
},
"ReportCreatorAccount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Web Services account ID used to create the report

generator. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the report was created. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags associated with the report generator. "
}

}
},
"traits": {
"smithy.api#documentation": " Describe the details of a report generator. "
}
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportGenerator"
}
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
}

```
        }
    },
    "com.amazonaws.licensemanager#ReportType": {
        "type": "enum",
        "members": {
            "LICENSE_CONFIGURATION_SUMMARY_REPORT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "LicenseConfigurationSummaryReport"
                }

    },
            "LICENSE_CONFIGURATION_USAGE_REPORT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "LicenseConfigurationUsageReport"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ReportTypeList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ReportType"
        }
    },
    "com.amazonaws.licensemanager#ResourceInventory": {
        "type": "structure",
        "members": {
            "ResourceId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits":
{
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
```

"Platform": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Platform of the resource. "
}
},
"PlatformVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Platform version of the resource in the inventory. "
}
},
"ResourceOwningAccountId":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a resource. "
}
},
"com.amazonaws.licensemanager#ResourceInventoryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ResourceInventory"
}
},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ResourceLimitExceeded",

"httpResponseCode": 400
},
"smithy.api#documentation": " Your resource limits have been exceeded. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},

```
"com.amazonaws.licensemanager#ResourceNotFoundException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "InvalidResource.NotFound",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The resource cannot be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceType": {
    "type": "enum",
     "members": {
        "EC2_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_INSTANCE"
            }
        },
        "EC2_HOST": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_HOST"
            }
        },
        "EC2_AMI": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_AMI"
            }
        },
        "RDS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "RDS"
            }
        },
        "SYSTEMS_MANAGER_MANAGED_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
```

"smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
}
}
}
},
"com.amazonaws.licensemanager#S3Location": {
"type": "structure",
"members": {
"bucket": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the S3 bucket reports are published to. "
}
},
"keyPrefix": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Prefix of the S3 bucket reports are published to. "
}
}
},
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InternalError",
"httpResponseCode": 500
},
"smithy.api#documentation": " The server experienced an internal error. Try again. ",
"smithy.api#error": "server",
"smithy.api#httpError": 500
}
},
"com.amazonaws.licensemanager#SignedToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 4096

```
            }
        }
    },
    "com.amazonaws.licensemanager#StatusReasonMessage": {
        "type": "string",
        "traits":
{
            "smithy.api#length": {
                "min": 0,
                "max": 400
            },
            "smithy.api#pattern": "^[\\s\\S]+$"
        }
    },
    "com.amazonaws.licensemanager#String": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#Tag": {
        "type": "structure",
        "members": {
            "Key": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag key.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Tag value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
```

```
        }
    },
    "com.amazonaws.licensemanager#TagList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Tag"
        }
    },
    "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
            {
                "target":
"com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits":
{
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
```

```
            }
        },
        "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
                "smithy.api#documentation": "<p>One or more tags.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#TagResourceResponse": {
    "type": "structure",
    "members": {},
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#TokenData": {
    "type": "structure",
    "members": {
        "TokenId": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
                "smithy.api#documentation": "<p>Token ID.</p>"
            }
        },
        "TokenType": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>"
            }
        },
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "ExpirationTime": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Token expiration time, in ISO8601-UTC
```

format. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller. "
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the roles included in the token. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. "
}
}
},
"traits": {

"smithy.api#documentation": " Describes a token. "
}
},
"com.amazonaws.licensemanager#TokenList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#TokenData"
}
},
"com.amazonaws.licensemanager#TokenString": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 4096
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#TokenType": {
"type": "enum",
"members": {

"REFRESH_TOKEN": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REFRESH_TOKEN"
}
}
}
},
"com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException":
{
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The digital signature method is unsupported. Try your request
again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#UntagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UntagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],

"traits": {
"smithy.api#documentation": " Removes the specified tags from the specified license configuration. "
}
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",
"traits": {
"smithy.api#documentation": " Keys identifying the tags to remove. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

```
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseConfigurationStatus": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
                "traits": {
                    "smithy.api#documentation": "<p>New status of the license configuration.</p>"
                }
            },
            "LicenseRules": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {

    "smithy.api#documentation": "<p>New license rule. The only rule that you can add after you create a license\n
    configuration is licenseAffinityToHost.</p>"
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
```

"smithy.api#documentation": " New number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}

```
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates a report generator.</p>\n        <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to
```

update. ",
"smithy.api#required": {}
}
},
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation":
" Type of reports to generate. The following report types are supported: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " The report context. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits":
{
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

```
                "smithy.api#documentation": "<p>Description of the report generator.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
    "type": "structure",
    "members": {},
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },

        {
            "target": "com.amazonaws.licensemanager#InvalidResourceStateException"
        },
        {
            "target": "com.amazonaws.licensemanager#LicenseUsageException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
```

"traits": {
"smithy.api#documentation": " Adds or removes the specified license configurations for the specified Amazon Web Services resource. \n You can update the license specifications of AMIs, instances, and hosts.\n You cannot update the license specifications for launch templates and CloudFormation templates, \n as they send license configurations to the operation that creates the resource. "
}
},

"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon Web Services resource. ",
"smithy.api#required": {}
}
},
"AddLicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " ARNs of the license configurations to add. "
}
},
"RemoveLicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " ARNs of the license configurations to remove. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where the License
 Manager information is stored.</p>"
                }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Enables integration with Organizations for cross-account discovery.</p>"
```

```
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Activates cross-account discovery.</p>"

        }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#UsageOperation": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            }
        }
    },
    "com.amazonaws.licensemanager#ValidationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",

    "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    }
  }
}
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version
 of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {
```

```
 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack,
 options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if
 err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
```

```
 Region:       region,
 ServiceID:     ServiceID,
 OperationName: "DeleteLicense",
 }
}
```

1.3930 strfmt 0.23.0

1.3930.1 Available under license :

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1.3931 aws-sdk-go-v2-credentials 1.16.16

1.3931.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil,
 err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
```

```
 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err !=
 nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
  return err
 }
```

```
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
```

AWS SDK for Go

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```
Copyright 2014-2015 Stripe, Inc.
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
     - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
       with:
         python-version: ${{ matrix.python-version }}
     # ScanCode
     - name: Self-configure scancode
       working-directory: ./scancode-toolkit
       run: ./scancode --help
     - name: Run Scan code on target
       run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
     - name: Run Scan code on pr ref
       run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
```

```
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
```

```
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return
 err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
```

```
  OperationName: "CheckInLicense",
 }
}
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
      "type": "integer"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
      "type": "long"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The type of name to filter by.</p>"
          }
        },
        "Values": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
          "traits": {
            "smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
          }
        },
        "Operator": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
           "traits": {
            "smithy.api#documentation": "<p>An operator for filtering results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>A filter object that is used to return more specific results from a describe
operation.\n      Filters can be used to match a set of resources by specific criteria.</p>"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
      "type": "operation",
      "input": {
```

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
},
"output": {

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions service settings. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/GetServiceSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest":
{
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " Lists the settings defined for Linux subscriptions discovery. The
settings include if\n Organizations integration has been enabled, and
which Regions data will be aggregated from. "
}

```
            },
            "Status": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
                }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
                "traits": {
                    "smithy.api#documentation": "<p>A message which details the Linux subscriptions service settings
current status.</p>"
                }
            },
            "HomeRegions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>The Region in which License Manager displays
 the aggregated data for Linux\n      subscriptions.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
        "type": "structure",
        "members": {
            "AmiId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The AMI ID used to launch the instance.</p>"
                }
            },
            "InstanceID": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The instance ID of the resource.</p>"
                }
            },
            "InstanceType": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The instance type of the resource.</p>"
                }

        },
            "AccountID": {
                "target": "smithy.api#String",
```

"traits": {
"smithy.api#documentation": " The account ID which owns the instance. "
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of the instance. "
}
},
"Region": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The Region the instance is running in. "
}
},
"UsageOperation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The usage operation of the instance. For more information, see For more information, see\n Usage\n operation values in the License Manager User Guide. "
}
},
"ProductCode": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
"traits": {
"smithy.api#documentation": " The product code for the instance. For more information, see Usage\n operation values in the License Manager User Guide . "
}
},
"LastUpdatedTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The time in which the last discovery updated the instance details. "
}
},
"SubscriptionName": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription being used by the instance. "
}
}
},
"traits": {

"smithy.api#documentation": " Details discovered information about a running instance using Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " An exception occurred with the service. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
"type": "service",
"version": "2018-05-10",
"operations": [
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"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
}
],

"traits": {
"aws.api#service": {
"sdkId": "License Manager Linux Subscriptions",
"arnNamespace": "license-manager-linux-subscriptions",
"cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
},
"aws.auth#sigv4": {
"name": "license-manager-linux-subscriptions"

},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",

"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"
]
},
"smithy.api#documentation": " With License Manager, you can discover and track your commercial Linux subscriptions on running\n Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager Linux Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {

"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

"type": "Boolean"
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"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
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"fn": "isSet",
"argv": [
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"ref": "Endpoint"
}
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}
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"rules": [
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"fn": "booleanEquals",
"argv": [
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"ref": "UseFIPS"
},
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]
}
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"type": "error"
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                            "argv": [
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                                },
                                true
                            ]
                        }
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                    "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                    "type": "error"
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                    "conditions": [],

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                            "ref": "Endpoint"
                        },
                        "properties": {},
                        "headers": {}
                    },
                    "type": "endpoint"
                }
                ]
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"argv": [
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                        }
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                            ],

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                        ],
                        "type": "tree",
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                            "conditions": [
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                                "argv": [
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                                    "ref": "UseFIPS"
                                  },
                                  true
                                ]
                              },

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                                    "ref": "UseDualStack"
                                  },
                                  true
                                ]
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                              {
                                "conditions": [
                                  {

                               "fn": "booleanEquals",
                                    "argv": [
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                                        {
                                            "fn": "getAttr",
                                            "argv": [
                                                {
                                                    "ref": "PartitionResult"
                                                },
                                                "supportsFIPS"
                                            ]

}
                                    ]
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                                    "fn": "booleanEquals",
                                    "argv": [
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                                        {
                                            "fn": "getAttr",
                                            "argv": [
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                                                    "ref": "PartitionResult"
                                                },

                                     "supportsDualStack"
                                            ]
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                                    ]
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fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                                "properties": {},
                                                "headers": {}
                                            },
                                            "type": "endpoint"
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```

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                    }
                ]

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                    "conditions": [],
                    "error": "FIPS and DualStack are enabled, but this partition does not support one or both",
                    "type": "error"
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"ref": "UseFIPS"
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{
                                "fn": "getAttr",
                                "argv": [
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                                        "ref": "PartitionResult"
                                    },
                                    "supportsFIPS"
                                ]
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                            "type": "tree",
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                                {
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                                    "endpoint": {
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fips.{Region}.{PartitionResult#dnsSuffix}",
                                        "properties": {},
                                        "headers": {}

                                    },
                                    "type": "endpoint"
                                }
                            ]
                        }
                    ]
                },
                {
                    "conditions": [],
                    "error": "FIPS is enabled but this partition does not support FIPS",
                    "type": "error"
                }
            ]

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                {
                    "conditions": [
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                            "fn": "booleanEquals",
                            "argv": [
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                                    "ref": "UseDualStack"
                                },
                                true
                            ]
                        }
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                    "type": "tree",
                    "rules": [
                        {

                     "conditions": [
                        {
                            "fn": "booleanEquals",
                            "argv": [
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                        "fn": "getAttr",
                        "argv": [
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                                "ref": "PartitionResult"
                            },
                            "supportsDualStack"
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                        "conditions": [],

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subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                            "properties": {},
                            "headers": {}
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                        "type": "endpoint"
                    }
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        ]
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        "error": "DualStack is enabled but this partition does not support DualStack",
        "type": "error"
    }
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  "type": "tree",
  "rules": [
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        "conditions": [],
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"properties": {},
"headers": {}
},
"type": "endpoint"
}
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}
]
}
]
},
{
"conditions": [],
"error": "Invalid Configuration: Missing Region",
"type": "error"
}
]
}
]
},
"smithy.rules#endpointTests": {
"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {

"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",

"UseFIPS": true,
"UseDualStack": false
}
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"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
}
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"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
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"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
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"url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
}
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"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
}
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"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {

"url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
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"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {

"url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
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"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
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"url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
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"url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
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            }
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            }
          },
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            "UseFIPS": false,
            "UseDualStack": true
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            }
          },
          "params": {
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            "UseFIPS": false,
             "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
          "expect": {
            "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
          },
          "params": {
            "Region": "us-iso-east-1",
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"UseFIPS": true,
"UseDualStack": true
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"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect": {
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"params": {
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"UseFIPS": true,
"UseDualStack": false
}
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{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{

"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
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"params": {

"Region": "us-isob-east-1",
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"UseDualStack": true
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}
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{
"documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
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"params": {
"Region": "us-isob-east-1",
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"UseDualStack": true
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"expect": {
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"url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",

"UseFIPS": false,
"UseDualStack": false
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{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {

"endpoint": {
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},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
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{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",

"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
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{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,

"Endpoint": "https://example.com"
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"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
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"params": {
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"UseFIPS": false,
"UseDualStack": true,

"Endpoint": "https://example.com"
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{
"documentation": "Missing region",
"expect": {
"error": "Invalid Configuration: Missing Region"
}

}
],
"version": "1.0"
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "Enabled",
"value": "Enabled",
"documentation": "Enabled LinuxSubscriptionsDiscovery"
},
{
"name": "Disabled",
"value": "Disabled",
"documentation": "Disabled LinuxSubscriptionsDiscovery"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
"type": "structure",
"members": {
"SourceRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Regions in which to discover data for Linux subscriptions. ",
"smithy.api#required": {}
}
},
"OrganizationIntegration": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
"traits": {
"smithy.api#documentation": " Details if you have enabled resource discovery across your accounts in Organizations. ",

"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Lists the settings defined for discovering Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
"type":
"operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the running Amazon EC2 instances that were discovered with
commercial Linux\n subscriptions. ",
"smithy.api#http": {

"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptionInstances"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Instances"
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
"type": "structure",

"members": {
"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n match, or don't match a certain Amazon Machine Image (AMI) ID. \n The valid names for this filter are: \n \n \n \n <code>AmiID</code>\n \n \n \n \n <code>InstanceID</code>\n \n \n \n \n <code>AccountID</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Region</code>\n \n \n \n \n <code>UsageOperation</code>\n \n \n \n \n <code>ProductCode</code>\n \n \n \n \n <code>InstanceType</code>\n \n \n \n The valid Operators for this filter are: \n \n \n \n <code>contains</code>\n \n \n \n \n <code>equals</code>\n \n \n \n \n <code>Notequal</code>\n \n \n "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "

}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. ",
"smithy.api#length": {
"min": 1,
"max": 16384
}
}
}
},
"traits": {
"smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
"type": "structure",
"members": {
"Instances": {

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
"traits": {
"smithy.api#documentation":
" An array that contains instance objects. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions that have been discovered. If you have linked your\n organization, the returned results will include data aggregated across your accounts in\n Organizations. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptions"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Subscriptions"

```
            }

        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by the name of\n
 <code>Subscription</code> with an optional operator to see subscriptions that match,\n      partially match, or don't
match a certain subscription's name.</p>\n         <p>The valid names for this filter are:</p>\n         <ul>\n
<li>\n              <p>\n                  <code>Subscription</code>\n              </p>\n           </li>\n         </ul>\n
<p>The valid Operators for this filter are:</p>\n
         <ul>\n           <li>\n              <p>\n                  <code>contains</code>\n              </p>\n           </li>\n
<li>\n              <p>\n                  <code>equals</code>\n              </p>\n           </li>\n           <li>\n              <p>\n
              <code>Notequal</code>\n              </p>\n           </li>\n         </ul>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>",
                    "smithy.api#length": {

                        "min": 1,
                        "max": 16384
                    }
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
        "type": "structure",
        "members": {
            "Subscriptions": {
```

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
"traits": {
"smithy.api#documentation": " An array that contains subscription objects. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for
the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "EQUAL",
"value": "Equal",
"documentation": "Equal operator"
},
{
"name": "NOT_EQUAL",
"value": "NotEqual",
"documentation": "Not equal operator"
},
{
"name": "CONTAINS",
"value": "Contains",
"documentation": "Contains operator"
}
],
"smithy.api#length": {
"min": 1,
"max": 20
}
}
},

"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "Enabled",
"value": "Enabled",

"documentation": "Enabled OrganizationIntegration"
},
{
"name": "Disabled",
"value": "Disabled",
"documentation": "Disabled OrganizationIntegration"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
"type": "list",
"member": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
"type": "string",
"traits": {
"smithy.api#enum": [

{
"name": "InProgress",
"value": "InProgress",
"documentation": "InProgress status"
},
{
"name": "Completed",
"value": "Completed",
"documentation": "Completed status"
},
{
"name": "Successful",
"value": "Successful",
"documentation": "Successful status"
},
{
"name": "Failed",
"value": "Failed",
"documentation": "Failed status"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
"type": "list",
"member": {
"target": "smithy.api#String",

"traits":
{
"smithy.api#length": {
"min": 1,
"max": 100
}
}
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
},
"smithy.api#uniqueItems": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
"type": "map",
"key": {
"target": "smithy.api#String"
},
"value": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
"type": "structure",
"members": {
"Name": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription. "

}
},
"Type": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own\n Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the\n Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS. "
}
},
"InstanceCount": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
"traits": {
"smithy.api#documentation": " The total amount of running instances using this subscription. "

```
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>An object which details a discovered Linux
subscription.</p>"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The request was denied due to request throttling.</p>",
          "smithy.api#error": "client"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
        },

      "output": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Updates the service settings for Linux subscriptions.</p>",
```

"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/UpdateServiceSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest":
{
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Describes if the discovery of Linux subscriptions is enabled. ",
"smithy.api#required": {}
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The
settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated
from. ",

"smithy.api#required": {}
}
},
"AllowUpdate": {
"target": "smithy.api#Boolean",
"traits": {
"smithy.api#documentation": " Describes if updates are allowed to the service settings for Linux
subscriptions. If you\n allow updates, you can aggregate Linux subscription data in more than one home
Region. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},

"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The provided input is not valid. Try your request again. ",
"smithy.api#error": "client"
}
}
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - Beneficiary
 //   - ProductSKU
 //   - Fingerprint
 //
   - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string
```

```
 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if
 err := addProtocolFinalizerMiddlewares(stack, options, "ListLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
```

```
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}
```

```
func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
     ServiceID,
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 //
 This member is required.
 LicenseType types.LicenseType
```

```
 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack,
 options, "DisassociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
```

```
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
```

```
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource
 Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil
 {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
```

```
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack);
err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier
 that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
```

```
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
```

```
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return
err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide
 to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
```

```
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity
 *types.DatetimeRange

 // Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
```

```
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
 return fmt.Errorf("add
protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName:
 "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
```

```
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
```

```
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return
err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
```

```
 if err = addOpGetLicenseValidationMiddleware(stack);
 err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "GetLicense",
 }
}
```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
```

```
//
  - ProductSKU
//   - Status
//   - Fingerprint
//   - IssuerName
//   - Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
 return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
middleware.After)
if err != nil {
 return err
}
```

```
if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack);
err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
```

```
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
 }
}
```

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```
{
  "smithy": "2.0",
  "shapes": {
```

"com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " You don't have sufficient access to perform this action. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
"type": "structure",
"members": {
"DirectoryId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The directory ID for an Active Directory identity provider. "
}
}
},
"traits": {
"smithy.api#documentation":
" Details about an Active Directory identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"

```
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Associates the user to an EC2 instance to utilize user-based
subscriptions.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related
costs will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing
status) in Amazon Web Services Billing. For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n
        monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/AssociateUser"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the
 EC2 instance, which provides user-based subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>The identity provider of the user.</p>",
```

"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
"type": "integer"
},
"com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request couldn't be completed because it conflicted with the current state of the\n resource. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deregisters the identity provider from providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/DeregisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",

```
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
    "type": "structure",
    "members": {
        "IdentityProviderSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
            "traits": {
                "smithy.api#documentation":
"<p>Metadata that describes the results of an identity provider operation.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
         },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
```

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Disassociates the user from an EC2 instance providing user-based
subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/DisassociateUser"
            },
            "smithy.api#idempotent": {}
        }

    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation":
 "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
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"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
}
},

"com.amazonaws.licensemanagerusersubscriptions#Filter": {
"type": "structure",
"members": {
"Attribute": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of an attribute to use as a filter. "
}
},
"Operation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of search (For example, eq, geq, leq) "
}
},
"Value": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Value of the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter name and value pair that is used
to return more specific results from a describe\n operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n attributes, or IDs. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
"type": "union",

"members": {
"ActiveDirectoryIdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
"traits": {
"smithy.api#documentation": " An object that details an Active Directory identity provider. "
}
}
},
"traits": {
"smithy.api#documentation":
" Details about an identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " An object that details the registered identity providers product
related configuration\n settings such as the subnets to provision VPC endpoints. ",
"smithy.api#required":
{}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of an identity provider. ",
"smithy.api#required": {}
}
},
"FailureMessage": {
"target": "smithy.api#String",

"traits": {
"smithy.api#documentation": " The failure message associated with an identity provider. "
}
}
},
"traits": {
"smithy.api#documentation":
" Describes an identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
"type": "structure",
"members": {
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based
subscriptions. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status
of an EC2 instance resource. ",
"smithy.api#required": {}
}
},
"Products": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
"traits": {
"smithy.api#documentation": " A list of provided user-based subscription products. ",
"smithy.api#required": {}
}
},
"LastStatusCheckDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date of the last status check. "
}
},

"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for an EC2 instance. "
}

}
},
"traits": {
"smithy.api#documentation": " Describes an EC2 instance providing user-based subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits":
{
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a user associated with an EC2 instance. ",

"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for users of an EC2 instance. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"AssociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was associated with an EC2 instance. "
}
},
"DisassociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was disassociated from an EC2 instance. "
}
}

},
"traits": {
"smithy.api#documentation": " Describes users of an EC2 instance providing user-based subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {

"smithy.api#documentation": " An exception occurred with the service. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
"type": "service",

"version": "2018-05-10",
"operations": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
}
],
"traits": {
"aws.api#service": {
"sdkId": "License Manager User Subscriptions",
"arnNamespace": "license-manager-user-subscriptions",

"cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
},
"aws.auth#sigv4": {
"name": "license-manager-user-subscriptions"
},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",
"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"

]
},
"smithy.api#documentation": " With License Manager, you can create user-based subscriptions to utilize licensed software with\n a per user subscription fee on Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager User Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack

endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}

},
"rules": [
{
"conditions": [
{
"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
]
}
],
"type": "tree",
"rules": [
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
},

true
]
}
],
"error": "Invalid Configuration: FIPS and custom endpoint are not supported",
"type": "error"

```
            },
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseDualStack"
                            },
                            true
                        ]
                    }
                ],

"error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                "type": "error"
            },
            {
                "conditions": [],
                "endpoint": {
                    "url": {
                        "ref": "Endpoint"
                    },
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ]
    },
    {
        "conditions": [
            {
                "fn": "isSet",
                "argv": [

{
                        "ref": "Region"
                    }
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "aws.partition",
```

```
                "argv": [
                  {
                    "ref": "Region"
                  }
                ],
                "assign": "PartitionResult"
              }
            ],
            "type": "tree",

      "rules": [
              {
                "conditions": [
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseFIPS"
                      },
                      true
                    ]
                  },
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseDualStack"

                      },
                      true
                    ]
                  }
                ],
                "type": "tree",
                "rules": [
                  {
                    "conditions": [
                      {
                        "fn": "booleanEquals",
                        "argv": [
                          true,
                          {
                            "fn": "getAttr",

  "argv": [
                                  {
                                    "ref": "PartitionResult"
                                  },
```

"supportsFIPS"
]
}
]
},
{
"fn": "booleanEquals",
"argv": [
true,
{

"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsDualStack"
]
}
]
}
],
"type": "tree",
"rules": [
{

"conditions": [],
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
},
{
"conditions": [],
"error": "FIPS and DualStack are enabled, but this partition does not support one or both",
"type": "error"
}
]
},
{
"conditions": [
{

```
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseFIPS"
                  },
                  true
                ]
              }
            ],
            "type": "tree",

        "rules": [
              {
                "conditions": [
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      true,
                      {
                        "fn": "getAttr",
                        "argv": [
                          {
                            "ref": "PartitionResult"
                          },
                          "supportsFIPS"

                 ]
                      }
                    ]
                  }
                ],
                "type": "tree",
                "rules": [
                  {
                    "conditions": [],
                    "endpoint": {
                      "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                      "properties": {},
                      "headers": {}

            },
                    "type": "endpoint"
                  }
                ]
              },
              {
                "conditions": [],
```

```
                "error": "FIPS is enabled but this partition does not support FIPS",
                "type": "error"
            }
        ]
    },
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseDualStack"
                    },
                    true
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
                            {

                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsDualStack"
                                ]
                            }
                        ]
                    }
                ],
                "type": "tree",
                "rules": [
                    {

                        "conditions": [],
                        "endpoint": {
                            "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                            "properties": {},
                            "headers": {}
```

```
                    },
                    "type": "endpoint"
                }
            ]
        },
        {
            "conditions": [],
            "error": "DualStack is enabled but this partition does
not support DualStack",
            "type": "error"
        }
    ]
},
{
    "conditions": [],
    "endpoint": {
        "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
        "properties": {},
        "headers": {}
    },
    "type": "endpoint"
}
]
}
]
},
{
    "conditions":
[],
    "error": "Invalid Configuration: Missing Region",
    "type": "error"
}
]
},
"smithy.rules#endpointTests": {
    "testCases": [
        {
            "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": true
```

```
            }
        },
        {
            "documentation":
"For region us-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
                }
            },

        "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region cn-north-1 with
FIPS enabled and DualStack enabled",
            "expect": {
                "endpoint": {
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"url": "https://license-manager-user-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},

"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,

"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1
with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {

"url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect":
{
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack":
true
}
},
{

"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but
this partition does not support one or both"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}

},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}

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        },
        {
          "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
            }
          },
           "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
          "expect": {
            "endpoint": {
              "url": "https://example.com"
            }
          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": false,
            "Endpoint": "https://example.com"
          }
        },
        {

"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
          "expect": {
            "endpoint": {
              "url": "https://example.com"
            }
          },
          "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Endpoint": "https://example.com"
          }
        },
        {
          "documentation": "For custom endpoint with fips enabled and dualstack disabled",
          "expect": {
            "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
          },
          "params": {
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                "Region": "us-east-1",
                 "UseFIPS": true,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips disabled and dualstack enabled",
            "expect": {
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "Missing region",
            "expect": {
                 "error": "Invalid Configuration: Missing Region"
            }
        }
    ],
    "version": "1.0"
  }
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
     },
    {
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"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the identity providers for user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/ListIdentityProviders"
},
"smithy.api#paginated":
{
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "IdentityProviderSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
{
"type": "structure",

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    "members": {
        "IdentityProviderSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
                "smithy.api#required": {}
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
    ],
    "traits": {
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"smithy.api#documentation": " Lists the EC2 instances providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/instance/ListInstances"
},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "InstanceSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
"type": "structure",
"members": {
"InstanceSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list instances operation. "
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the user-based subscription products available from an identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/ListProductSubscriptions"
},
"smithy.api#paginated": {

"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "ProductUserSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
"type": "structure",
"members": {
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name
of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {

"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match
one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {

"type": "structure",
"members": {
"ProductUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list product subscriptions operation. "
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"

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            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists user associations for an identity provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListUserAssociations"
            },
            "smithy.api#paginated":
 {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity
 provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify.</p>"
```

```
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for
the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
    "type": "structure",
    "members": {
        "InstanceUserSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Metadata that describes the list user association operation.</p>"
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
    "type": "structure",
    "members": {

    "Username": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                "smithy.api#required": {}
            }
        },
        "Product": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                "smithy.api#required": {}
            }
        },
        "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
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"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}

},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a product for a user. ",
"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for a product for a user. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"SubscriptionStartDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The
start date of a subscription. "
}
},
"SubscriptionEndDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The end date of a subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " The summary of the user-based subscription products for a user. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
}

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},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Registers an identity provider for user-based subscriptions.</p>",
        "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/identity-provider/RegisterIdentityProvider"
        },
        "smithy.api#idempotent": {}
    }
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
    "type": "structure",
    "members": {
        "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
```

"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings such as the\n subnets to provision VPC endpoints. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The resource couldn't be found. ",
"smithy.api#error": "client",
"smithy.api#httpError": 404
}
},

"com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
"type": "string",

"traits": {
"smithy.api#length": {
"min": 5,
"max": 200
},
"smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request failed because a service quota is exceeded. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Settings": {
"type": "structure",
"members": {
"Subnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation":
" The subnets defined for the registered identity provider. ",
"smithy.api#length": {
"min": 1
},
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID that allows inbound TCP port 1688
communication between resources in\n your VPC and the VPC endpoint for activation servers. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings

such as the\n subnets to provision VPC endpoints, and the security group ID that
is associated with the VPC\n endpoints. The security group should permit inbound TCP port 1688
communication from resources\n in the VPC. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
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"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Starts a product subscription for a user with the specified identity
provider. \n <note>\n Your estimated bill for charges on the number of users and related costs
will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing status)
in Amazon Web Services Billing.
For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n monthly
charges in the Amazon Web Services Billing User Guide. \n </note>",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/StartProductSubscription"

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            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                 "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
        "type": "structure",
         "members": {
            "ProductUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the start product subscription
operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
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"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Stops a product subscription for a user with the specified identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/StopProductSubscription"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
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"Username": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
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"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required":
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}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
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"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
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"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
"type": "structure",
"members": {
"ProductUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
"traits": {
"smithy.api#documentation":
" Metadata that describes the start product subscription operation. ",
"smithy.api#required": {}
}
}
}
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"com.amazonaws.licensemanagerusersubscriptions#StringList": {
"type": "list",
"member": {
"target": "smithy.api#String"
}
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"com.amazonaws.licensemanagerusersubscriptions#Subnet": {
"type": "string",

"traits": {
"smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
}
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"com.amazonaws.licensemanagerusersubscriptions#Subnets": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
"type": "structure",
"members": {
"message": {

"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request was denied because of request throttling. Retry the request. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates additional product configuration settings for the registered

identity\n provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/UpdateIdentityProviderSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"UpdateSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings. You can\n update any combination of settings in a single operation such as the: \n \n \n Subnets which you want to add to provision VPC endpoints. \n \n \n Subnets which you want to remove the VPC endpoints from. \n \n \n Security group ID which permits traffic to the VPC endpoints. \n \n ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#required": {}
}
}
}

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    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
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        "members": {
            "AddSubnets": {

             "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of one or more subnets in which License Manager will
create a VPC endpoint for products that\n      require connectivity to activation servers.</p>",
                    "smithy.api#required": {}
                }
            },
            "RemoveSubnets": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of one or more subnets to remove.</p>",
                    "smithy.api#required": {}
                }
            },
            "SecurityGroupId": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
                "traits": {
                    "smithy.api#documentation": "<p>A security group ID
 that allows inbound TCP port 1688 communication between resources in\n      your VPC and the VPC endpoints for
activation servers.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Updates the registered identity providers product related configuration
settings such as\n      the subnets to provision VPC endpoints.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A parameter is not valid.</p>",
            "smithy.api#error": "client"
        }
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        "namespace": "*"
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        "id": "HttpResponseCodeSemantics",
        "namespace": "*"
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        "id": "PaginatedTrait",
        "namespace": "*"
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        "id": "HttpHeaderTrait",
        "namespace": "*"
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        "id": "HttpUriConflict",
        "namespace": "*"
      },
      {
        "id": "Service",
        "namespace": "*"
      }
    ]
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  "shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
      "type": "service",
      "version": "2018-08-01",
      "operations": [
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          "target": "com.amazonaws.licensemanager#AcceptGrant"
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          "target": "com.amazonaws.licensemanager#CheckInLicense"
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          "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
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        {
          "target": "com.amazonaws.licensemanager#CheckoutLicense"
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      "target": "com.amazonaws.licensemanager#CreateGrant"
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      "target": "com.amazonaws.licensemanager#CreateGrantVersion"
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      "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
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      "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
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      "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
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      "target": "com.amazonaws.licensemanager#CreateLicenseVersion"
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      "target": "com.amazonaws.licensemanager#CreateToken"
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      "target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
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      "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
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      "target": "com.amazonaws.licensemanager#DeleteToken"
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      "target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

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    {
      "target": "com.amazonaws.licensemanager#GetAccessToken"
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    {
      "target": "com.amazonaws.licensemanager#GetGrant"
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"target": "com.amazonaws.licensemanager#GetLicense"
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"target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
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"target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
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"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
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"target": "com.amazonaws.licensemanager#GetLicenseUsage"
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"target": "com.amazonaws.licensemanager#GetServiceSettings"
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"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
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"target": "com.amazonaws.licensemanager#ListDistributedGrants"
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"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
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"target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
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"target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
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"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
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"target": "com.amazonaws.licensemanager#ListLicenses"
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"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
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"target": "com.amazonaws.licensemanager#ListLicenseVersions"
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"target": "com.amazonaws.licensemanager#ListReceivedGrants"
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"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization"
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"target": "com.amazonaws.licensemanager#ListReceivedLicenses"
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"target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization"
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"target": "com.amazonaws.licensemanager#ListResourceInventory"
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"target": "com.amazonaws.licensemanager#ListTagsForResource"
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"target": "com.amazonaws.licensemanager#ListTokens"
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"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
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"target": "com.amazonaws.licensemanager#RejectGrant"
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"target": "com.amazonaws.licensemanager#TagResource"
},
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"target": "com.amazonaws.licensemanager#UntagResource"
},
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"target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateServiceSettings"
}
],
"traits": {
"aws.api#service": {

"sdkId": "License Manager",
"arnNamespace": "license-manager",
"cloudFormationName": "LicenseManager",
"cloudTrailEventSource": "licensemanager.amazonaws.com",
"endpointPrefix": "license-manager"
},
"aws.auth#sigv4": {
"name": "license-manager"
},
"aws.protocols#awsJson1_1": {},
"smithy.api#documentation": " License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers. ",
"smithy.api#title": "AWS License Manager",
"smithy.api#xmlNamespace": {
"uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
},
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}

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    "rules": [
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        "conditions": [
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            "fn": "isSet",
            "argv": [
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                "ref": "Endpoint"
              }
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        "type": "tree",
        "rules": [
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            "conditions": [
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                "fn": "booleanEquals",
                "argv": [
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                    "ref": "UseFIPS"
                  },
                  true
                ]
              }
            ],
            "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
            "type": "error"
          },
          {

"conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseDualStack"
                  },
                  true
                ]
              }
            ],
            "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
            "type": "error"
          },
          {
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                "conditions": [],
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                    "ref": "Endpoint"
                  },
                  "properties": {},
                  "headers": {}
                },
                "type": "endpoint"
              }
            ]
          },
          {
            "conditions": [
              {
                "fn": "isSet",
                "argv": [
                  {
                    "ref": "Region"
                  }
                ]
              }
            ],
            "type": "tree",
            "rules": [
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                "conditions": [
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                    "fn": "aws.partition",
                    "argv": [
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                        "ref": "Region"
                      }
                    ],
                    "assign": "PartitionResult"
                  }
                ],
                "type": "tree",
                "rules": [
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                    "conditions": [
                      {
                        "fn": "booleanEquals",
                        "argv": [
                          {
                            "ref":
"UseFIPS"
                          },
```

```
                true
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        {
            "fn": "booleanEquals",
            "argv": [
                {
                    "ref": "UseDualStack"
                },
                true
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    "type": "tree",
    "rules": [
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            "conditions": [
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                    "fn": "booleanEquals",
                    "argv": [
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                            "fn": "getAttr",
                            "argv": [
                                {
                                    "ref": "PartitionResult"
                                },
                                "supportsFIPS"
                            ]

        }
                    ]
                },
                {
                    "fn": "booleanEquals",
                    "argv": [
                        true,
                        {
                            "fn": "getAttr",
                            "argv": [
                                {
                                    "ref": "PartitionResult"
                                },

"supportsDualStack"
                            ]
                        }
                    ]
```

```
                    }
                ],
                "type": "tree",
                "rules": [
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                        "conditions": [],
                        "endpoint": {
                            "url": "https://license-manager-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                            "properties": {},
                            "headers": {}

            },
                        "type": "endpoint"
                    }
                ]
            },
            {
                "conditions": [],
                "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
                "type": "error"
            }
        ]
    },
    {
        "conditions": [
            {
                "fn": "booleanEquals",

          "argv": [
                    {
                        "ref": "UseFIPS"
                    },
                    true
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
```

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{
                "fn": "getAttr",
                "argv": [
                  {
                    "ref": "PartitionResult"
                  },
                  "supportsFIPS"
                ]
              }
            ]
          }
        ],
        "type": "tree",
        "rules": [

{
            "conditions": [],
            "endpoint": {
              "url": "https://license-manager-fips.{Region}.{PartitionResult#dnsSuffix}",
              "properties": {},
              "headers": {}
            },
            "type": "endpoint"
          }
        ]
      },
      {
        "conditions": [],
        "error": "FIPS is enabled but this
partition does not support FIPS",
        "type": "error"
      }
    ]
  },
  {
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          {
            "ref": "UseDualStack"
          },
          true
        ]
      }
    ],
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```

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                "rules": [
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                    "conditions": [
                      {
                        "fn": "booleanEquals",
                        "argv": [
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                          {
                            "fn": "getAttr",
                            "argv": [
                              {
                                "ref": "PartitionResult"
                              },

"supportsDualStack"
                            ]
                          }
                        ]
                      }
                    ],
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                    "rules": [
                      {
                        "conditions": [],
                        "endpoint": {
                          "url": "https://license-
manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
                          "properties": {},
                          "headers": {}

                },
                        "type": "endpoint"
                      }
                    ]
                  },
                  {
                    "conditions": [],
                    "error": "DualStack is enabled but this partition does not support DualStack",
                    "type": "error"
                  }
                ]
              },
              {
                "conditions": [],
                "endpoint": {
                  "url": "https://license-manager.{Region}.{PartitionResult#dnsSuffix}",
                   "properties": {},
                  "headers": {}
```

```
                    },
                    "type": "endpoint"
                }
            ]
        }
    ]
},
{
    "conditions": [],
    "error": "Invalid Configuration: Missing Region",
    "type": "error"
}
]
},
"smithy.rules#endpointTests": {
    "testCases": [
        {
            "documentation": "For region af-south-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint":
{
                    "url": "https://license-manager.af-south-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "af-south-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.ap-east-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "ap-east-1",
                "UseFIPS": false,
                "UseDualStack": false
             }
        },
        {
            "documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.ap-northeast-1.amazonaws.com"
```

```
            }
        },
        "params": {
            "Region": "ap-northeast-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.ap-northeast-2.amazonaws.com"
             }
        },
        "params": {
            "Region": "ap-northeast-2",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.ap-northeast-3.amazonaws.com"
            }
        },
        "params": {
            "Region": "ap-northeast-3",
            "UseFIPS": false,
            "UseDualStack": false
        }

},
    {
        "documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.ap-south-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "ap-south-1",
            "UseFIPS": false,
            "UseDualStack": false
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          "documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ap-southeast-1.amazonaws.com"

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          "params": {
            "Region": "ap-southeast-1",
            "UseFIPS": false,
            "UseDualStack": false
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          "documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ap-southeast-2.amazonaws.com"
            }
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          "params": {
            "Region": "ap-southeast-2",
            "UseFIPS": false,
            "UseDualStack": false
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"documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ap-southeast-3.amazonaws.com"
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          "params": {
            "Region": "ap-southeast-3",
            "UseFIPS": false,
            "UseDualStack": false
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        {
          "documentation": "For region ca-central-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ca-central-1.amazonaws.com"
            }
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"params": {
"Region": "ca-central-1",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-central-1.amazonaws.com"
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"params": {
"Region": "eu-central-1",
"UseFIPS": false,
"UseDualStack": false
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{
"documentation": "For region eu-north-1 with FIPS
disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-north-1.amazonaws.com"
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"params": {
"Region": "eu-north-1",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
"expect": {
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"url": "https://license-manager.eu-south-1.amazonaws.com"
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"params": {
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"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-west-1.amazonaws.com"
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"params": {
"Region": "eu-west-1",
"UseFIPS": false,
"UseDualStack": false
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{
"documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
"expect": {

"endpoint": {
"url": "https://license-manager.eu-west-2.amazonaws.com"
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"params": {
"Region": "eu-west-2",
"UseFIPS": false,
"UseDualStack": false
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{
"documentation": "For region eu-west-3 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-west-3.amazonaws.com"
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"params": {
"Region": "eu-west-3",
"UseFIPS": false,

"UseDualStack": false
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"documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.me-south-1.amazonaws.com"
}
},

"params": {
"Region": "me-south-1",
"UseFIPS": false,
"UseDualStack": false
}
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{
"documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.sa-east-1.amazonaws.com"
}
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"params": {
"Region": "sa-east-1",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-east-1.amazonaws.com"
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"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-east-1.amazonaws.com"
}
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"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
}
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{
"documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",

"expect": {
"endpoint": {
"url": "https://license-manager.us-east-2.amazonaws.com"
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"params": {
"Region": "us-east-2",
"UseFIPS": false,
"UseDualStack": false
}
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"documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-east-2.amazonaws.com"
}
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"params": {
"Region": "us-east-2",
"UseFIPS": true,
"UseDualStack": false
}
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"documentation": "For region
us-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-west-1.amazonaws.com"
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"params": {
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"UseDualStack": false
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"url": "https://license-manager-fips.us-west-1.amazonaws.com"
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"params": {

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"UseDualStack": false
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{
"documentation": "For region us-west-2 with FIPS disabled and DualStack disabled",
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"params": {
"Region": "us-west-2",
"UseFIPS": false,
"UseDualStack": false
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"params": {
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"UseFIPS": true,
"UseDualStack": false
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{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,

"UseDualStack": true
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{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",

"expect": {
"endpoint": {
"url": "https://license-manager.us-east-1.api.aws"
}
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"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
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"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url":
"https://license-manager.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
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"documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-northwest-1",
"UseFIPS": false,
"UseDualStack": false

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"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
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            "UseFIPS": true,
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            "UseDualStack": false
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        "params": {
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        "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.us-gov-east-1.amazonaws.com"
            }
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        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
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"url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
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"params": {
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"UseDualStack": false
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"documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-gov-west-1.amazonaws.com"
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"params": {
"Region": "us-gov-west-1",
"UseFIPS": false,
"UseDualStack": false
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}
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"UseDualStack": true

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                }
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            "params": {
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                "UseFIPS": false,
                "UseDualStack": true
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            "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack
disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
                }
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
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            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": true,
                 "UseDualStack": true
            }
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            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
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                    "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
                }
            },
            "params": {
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"Region": "us-iso-east-1",
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"UseDualStack": false
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"expect": {
"error": "DualStack is enabled
but this partition does not support DualStack"
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"params": {
"Region": "us-iso-east-1",
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"UseDualStack": true
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"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
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"url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
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"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
}
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
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"UseFIPS": true,
"UseDualStack": true
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
}

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                        "UseDualStack": false
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                    "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
                    "expect": {
                        "error": "DualStack is enabled but this partition does not support DualStack"
                    },
                    "params": {
                        "Region": "us-isob-east-1",
                        "UseFIPS": false,
                        "UseDualStack": true
                    }
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                    "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

    "expect": {
                        "endpoint": {
                            "url": "https://example.com"
                        }
                    },
                    "params": {
                        "Region": "us-east-1",
                        "UseFIPS": false,
                        "UseDualStack": false,
                        "Endpoint": "https://example.com"
                    }
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                    "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",
                    "expect": {
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                            "url": "https://example.com"
                        }
                    },
                    "params": {
                        "UseFIPS": false,

        "UseDualStack": false,
                        "Endpoint": "https://example.com"
                    }
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                },
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                    "documentation": "For custom endpoint with fips enabled and dualstack disabled",
                    "expect": {
                        "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
                    },
                    "params": {
                        "Region": "us-east-1",
                        "UseFIPS": true,
                        "UseDualStack": false,
                        "Endpoint": "https://example.com"
                    }
                },
                {
                    "documentation": "For custom endpoint with fips disabled and dualstack enabled",
                    "expect": {
                        "error":
"Invalid Configuration: Dualstack and custom endpoint are not supported"
                    },
                    "params": {
                        "Region": "us-east-1",
                        "UseFIPS": false,
                        "UseDualStack": true,
                        "Endpoint": "https://example.com"
                    }
                },
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                    "documentation": "Missing region",
                    "expect": {
                        "error": "Invalid Configuration: Missing Region"
                    }
                }
            ],
            "version": "1.0"
        }
    }
},
"com.amazonaws.licensemanager#AcceptGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#AcceptGrantRequest"

},
    "output": {
        "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
    },
    "errors": [
        {
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            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"

}
    ],
    "traits": {
        "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
    }
  },
  "com.amazonaws.licensemanager#AcceptGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
  },
  "com.amazonaws.licensemanager#AcceptGrantResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant
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ARN. "
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": " Grant status. "
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": " Grant version. "
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#AccessDeniedException": {
        "type": "structure",
        "members": {
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "aws.protocols#awsQueryError": {

"code": "ServiceAccessDenied",
            "httpResponseCode": 401
          },
          "smithy.api#documentation": " Access to resource denied. ",
          "smithy.api#error": "client",
          "smithy.api#httpError": 401
        }
      },
      "com.amazonaws.licensemanager#ActivationOverrideBehavior": {
        "type": "enum",
        "members": {
          "DISTRIBUTED_GRANTS_ONLY": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
            }
          },
          "ALL_GRANTS_PERMITTED_BY_ISSUER": {

"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
}
}
}
},
"com.amazonaws.licensemanager#AllowedOperation": {

"type": "enum",
"members": {
"CREATE_GRANT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CreateGrant"
}
},
"CHECKOUT_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckoutLicense"
}
},
"CHECKOUT_BORROW_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckoutBorrowLicense"
}
},
"CHECK_IN_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckInLicense"
}
},
"EXTEND_CONSUMPTION_LICENSE":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ExtendConsumptionLicense"
}
},
"LIST_PURCHASED_LICENSES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ListPurchasedLicenses"
}
},

"CREATE_TOKEN": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CreateToken"
}
}
}
},
"com.amazonaws.licensemanager#AllowedOperationList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#AllowedOperation"
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"traits": {
"smithy.api#length": {
"min": 1,
"max":
7
}
}
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"com.amazonaws.licensemanager#Arn": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
}
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"com.amazonaws.licensemanager#ArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
}
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"com.amazonaws.licensemanager#AuthorizationException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError":

{
"code": "AuthorizationFailure",
"httpResponseCode": 403
},
"smithy.api#documentation": " The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n policy associated with this account. ",
"smithy.api#error": "client",
"smithy.api#httpError": 403
}
},
"com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
"type": "structure",
"members": {
"LastRunTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time that automated discovery last ran. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes automated discovery. "
}
},

"com.amazonaws.licensemanager#Boolean": {
"type": "boolean",
"traits": {
"smithy.api#default": false
}
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"com.amazonaws.licensemanager#BorrowConfiguration": {
"type": "structure",
"members": {
"AllowEarlyCheckIn": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether early check-ins are allowed. ",
"smithy.api#required": {}
}
},
"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the borrow configuration, in minutes. ",
"smithy.api#required": {}
}
}

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},
        "traits": {
            "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#BoxBoolean": {
        "type": "boolean"
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    "com.amazonaws.licensemanager#BoxInteger": {
        "type": "integer"
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    "com.amazonaws.licensemanager#BoxLong": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#CheckInLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
        },
        "errors": [
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                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"

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            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
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            }
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        "traits": {
            "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseRequest":
{
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicense":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members":
{
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
                    "smithy.api#required": {}
                }
```

```
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
                    "smithy.api#required": {}
                }
            },
            "DigitalSignatureMethod": {
                "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
                "traits": {
                    "smithy.api#documentation": "<p>Digital signature method. The possible
 value is JSON Web Signature (JWS) algorithm PS384.\n        For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>",
                    "smithy.api#required": {}
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation":
 "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
```

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed":
{
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " Allowed license entitlements. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"SignedToken": {
"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout
is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
}
},

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target":
"com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks out the specified license. \n <note>\n If the
account that created the license is the same that is performing the check out, you must\n specify the account

as the beneficiary. \n </note>"
  }
},
"com.amazonaws.licensemanager#CheckoutLicenseRequest": {
  "type": "structure",
  "members": {
    "ProductSKU": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": " Product
 SKU. ",
        "smithy.api#required": {}
      }
    },
    "CheckoutType": {
      "target": "com.amazonaws.licensemanager#CheckoutType",
      "traits": {
        "smithy.api#documentation": " Checkout type. ",
        "smithy.api#required": {}
      }
    },
    "KeyFingerprint": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": " Key fingerprint identifying the license. ",
        "smithy.api#required": {}
      }
    },
    "Entitlements": {
      "target": "com.amazonaws.licensemanager#EntitlementDataList",
      "traits": {
        "smithy.api#documentation": " License entitlements. ",

"smithy.api#required": {}
      }
    },
    "ClientToken": {
      "target": "com.amazonaws.licensemanager#ClientToken",
      "traits": {
        "smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request. ",
        "smithy.api#required": {}
      }
    },
    "Beneficiary": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": " License beneficiary. "

```
            }
        },
        "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        }
    },
    "traits": {

   "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
    "type": "structure",
    "members": {
        "CheckoutType": {
            "target": "com.amazonaws.licensemanager#CheckoutType",
            "traits": {
                "smithy.api#documentation": "<p>Checkout type.</p>"
            }
        },
        "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
            }
        },
        "EntitlementsAllowed": {
            "target": "com.amazonaws.licensemanager#EntitlementDataList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
            }
        },
         "SignedToken": {
            "target": "com.amazonaws.licensemanager#SignedToken",
            "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
            }
        },
        "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        },
        "IssuedAt": {
```

"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and
time at which the license checkout expires. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the checkout license. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutType": {
"type": "enum",
"members": {
"PROVISIONAL": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PROVISIONAL"
}
},
"PERPETUAL": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PERPETUAL"
}
}
}
},
"com.amazonaws.licensemanager#ClientRequestToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 36
}
}

```
    },
    "com.amazonaws.licensemanager#ClientToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 2048
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
    "com.amazonaws.licensemanager#ConflictException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ConflictException",
                "httpResponseCode":
 409
            },
            "smithy.api#documentation": "<p>There was a conflict processing the request. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 409
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
                }
            },
            "ConsumedLicenses": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
                }
            }
        },
```

"traits": {
"smithy.api#documentation": " Details about license consumption. "
}
},
"com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
}
},
"com.amazonaws.licensemanager#ConsumptionConfiguration": {
"type": "structure",
"members": {
"RenewType": {
"target": "com.amazonaws.licensemanager#RenewType",
"traits": {
"smithy.api#documentation": " Renewal frequency. "
}
},
"ProvisionalConfiguration": {
"target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"BorrowConfiguration": {
"target": "com.amazonaws.licensemanager#BorrowConfiguration",
"traits": {
"smithy.api#documentation": " Details about a borrow configuration. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a consumption configuration. "
}
},
"com.amazonaws.licensemanager#CreateGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

```
            {
                "target":
 "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of
license\n        entitlements with a specific Amazon Web Services account, an organization, or an\n
organizational unit (OU). For more
 information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}

    }
            },
            "LicenseArn": {
```

"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Principals": {
"target": "com.amazonaws.licensemanager#PrincipalArnList",
"traits": {
"smithy.api#documentation": " The grant principals. You can specify one of the following as an Amazon Resource Name\n (ARN): \n \n \n An Amazon Web Services account, which includes only the account specified. \n \n \n \n \n An organizational unit (OU), which includes all accounts in the OU. \n \n \n \n \n An organization, which will include all accounts across your organization. \n \n ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},

"com.amazonaws.licensemanager#CreateGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},

```
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersion":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
             },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
```

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information,
see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",

  "smithy.api#required": {}
                }
            },
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>"
                }
            },
            "AllowedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                 "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status reason.</p>"
```

```
            }
        },
        "SourceVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Current version of the grant.</p>"
            }
        },
        "Options": {
            "target": "com.amazonaws.licensemanager#Options",
            "traits": {
                "smithy.api#documentation": "<p>The options specified for the grant.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>New version of the grant.</p>"
            }
        }
    },
    "traits":
{
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicense": {
    "type": "operation",
```

```
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a license.</p>"
    }
},
"com.amazonaws.licensemanager#CreateLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license configuration.</p>\n        <p>A license configuration is an abstraction of a customer license agreement that can be\n        consumed and enforced by License Manager. Components include specifications for the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n        Dedicated Instance, Dedicated Host, or all of these), license affinity  to host (how long a \n        license must be associated with a host), and the number of licenses purchased and used.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the license configuration.</p>"
                }
            },
            "LicenseCountingType": {
                "target": "com.amazonaws.licensemanager#LicenseCountingType",
                "traits": {
                    "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
```

"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows. \n \n \n \n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n <code>licenseAffinityToHost</code> |\n <code>maximumCores</code> | <code>minimumCores</code>\n \n \n \n \n <code>Instances</code> dimension: <code>allowedTenancy</code> | \n <code>maximumCores</code> | <code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n \n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n <code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code>\n \n \n \n \n <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n <code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>. "
}
},

"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the license configuration. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "

```
            }
          },
          "ProductInformationList": {
            "target": "com.amazonaws.licensemanager#ProductInformationList",
            "traits": {
              "smithy.api#documentation": "<p>Product information.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse":
{
        "type": "structure",
        "members": {
          "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
           },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {

                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting
from. \n\n        For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            },
            "DestinationLicenseContext":
 {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting to.
For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
```

```
    }
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
    "type": "structure",
    "members": {
        "LicenseConversionTaskId": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

   "traits": {
                "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
         },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
```

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a report generator. "
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"ReportGeneratorName":
{
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types an be generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}

}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " Defines the type of license configuration the report generator tracks. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",

"traits": {
"smithy.api#documentation": " Unique,
case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the new report
generator. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseRequest": {
"type": "structure",
"members": {
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}

},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product
name. ",
"smithy.api#required": {}
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits": {
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region for the license. ",
"smithy.api#required": {}

}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-
UTC format. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},

```
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
    }
```

},
"com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target":
"com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits":
{
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-
UTC format. ",
"smithy.api#required": {}
}

```
            },
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license.</p>"
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",
                    "smithy.api#required": {}
                }
            },
            "ConsumptionConfiguration": {
                "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n         running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n         usage.</p>",
                    "smithy.api#required": {}
                }
            },

   "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>",
                    "smithy.api#required": {}
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>"
                }
            }
        },
        "traits": {
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"smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": " License ARN. "
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " New version of the license. "
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": " License status. "
                }
            }
        },
        "traits": {
            "smithy.api#output":
{}
        }
    },
    "com.amazonaws.licensemanager#CreateToken": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateTokenResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },

{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},

{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a long-lived token. \n A refresh token is a JWT token used to get an access token. With an access token,\n you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n call License Manager to manage the specified license. "
}
},
"com.amazonaws.licensemanager#CreateTokenRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits":
{
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n JWT token. ",
"smithy.api#required": {}
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n License Manager does not check whether the roles are in use. "
}
},
"ExpirationInDays": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Token expiration, in days, counted from token creation. The default is 365 days. "
}

```
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Data specified by the caller to be included in the JWT token. The
data is mapped\n          to the amr claim of the JWT token.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Idempotency token, valid for 10 minutes.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateTokenResponse": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",

                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
            "TokenType": {
                "target": "com.amazonaws.licensemanager#TokenType",
                "traits": {
                    "smithy.api#documentation": "<p>Token type.</p>"
                }
            },
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DateTime": {
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    "type": "timestamp"
  },
  "com.amazonaws.licensemanager#DatetimeRange": {
    "type": "structure",
    "members": {
      "Begin": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
          "smithy.api#documentation": "<p>Start of the time range.</p>",
          "smithy.api#required": {}
        }
      },
      "End": {
        "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
          "smithy.api#documentation": "<p>End of the time range.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
    }
  },
  "com.amazonaws.licensemanager#DeleteGrant": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
     },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
      },
      {
```

"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes
the specified grant. "
}
},
"com.amazonaws.licensemanager#DeleteGrantRequest": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " The Status reason for the delete request. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the
grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}

```
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
```

"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license configuration. \n You cannot delete a license configuration that is in use. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
"type": "structure",
"members":
{
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

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                "smithy.api#documentation": "<p>ID of the license configuration.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
    "type": "structure",
    "members": {},
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
     },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
```

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            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified report generator.</p>\n        <p>This action deletes the report generator, which stops it from generating future reports.\n        The action cannot be reversed. It has no effect on the previous reports from this generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to be deleted.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {

 "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>",
                    "smithy.api#required":
```

{}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseResponse": {
"type": "structure",
"members": {
"Status": {
"target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"DeletionDate": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date when the license is deleted. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"

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            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },

    {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}

      }
    },
    "com.amazonaws.licensemanager#DigitalSignatureMethod": {
        "type": "enum",
        "members": {
            "JWT_PS384": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "JWT_PS384"
                }
```

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            }
        }
    },
    "com.amazonaws.licensemanager#Entitlement": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement name.</p>",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement resource. Use only
if the unit is None.</p>"
                }
            },
            "MaxCount": {
                "target": "com.amazonaws.licensemanager#Long",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
                }
            },
            "Overage": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether overages are allowed.</p>"
                }
            },
            "Unit": {
                "target": "com.amazonaws.licensemanager#EntitlementUnit",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement unit.</p>",
                    "smithy.api#required": {}
                }
            },
            "AllowCheckIn": {
                "target":
"com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether check-ins are allowed.</p>"
                }
            }
        },
        "traits": {
```

"smithy.api#documentation": " Describes a resource entitled for use with a license. "
}
},
"com.amazonaws.licensemanager#EntitlementData": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement
data value. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {
"smithy.api#documentation": " Entitlement data unit. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Data associated with an entitlement resource. "
}
},
"com.amazonaws.licensemanager#EntitlementDataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#EntitlementData"
}
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
"type": "enum",
"members": {
"COUNT": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Count"
}
},

"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"SECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Seconds"
}
},
"MICROSECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Microseconds"
}
},
"MILLISECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Milliseconds"
}
},
"BYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes"
}
},
"KILOBYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes"
}
},
"MEGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes"
}
},
"GIGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes"
}
},

"TERABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"

}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"

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            }
        },
        "KILOBYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes/Second"
            }
        },
        "MEGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes/Second"
            }
        },
        "GIGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Gigabytes/Second"
            }
        },
        "TERABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabytes/Second"
            }
        },
        "BITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bits/Second"
            }
        },
        "KILOBITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobits/Second"
            }
        },
        "MEGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue":
"Megabits/Second"
            }
        },
        "GIGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
```

"smithy.api#enumValue": "Gigabits/Second"
}
},
"TERABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits/Second"
}
},
"COUNT_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count/Second"
}
}
}
},
"com.amazonaws.licensemanager#EntitlementList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Entitlement"
}
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The entitlement is not allowed. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#EntitlementUnit": {
"type": "enum",
"members": {
"COUNT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count"
}
},
"NONE": {
"target": "smithy.api#Unit",

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            "traits": {
                "smithy.api#enumValue": "None"
            }
        },
        "SECONDS":
{
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Seconds"
            }
        },
        "MICROSECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Microseconds"
            }
        },
        "MILLISECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Milliseconds"
            }
        },
        "BYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bytes"
            }
        },
        "KILOBYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes"
             }
        },
        "MEGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes"
            }
        },
        "GIGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabytes"
            }
        },
        "TERABYTES": {
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"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"
}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target":
"smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"
}

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        },
        "KILOBYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Kilobytes/Second"
          }
        },
        "MEGABYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Megabytes/Second"
          }
        },
        "GIGABYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Gigabytes/Second"
          }
        },
        "TERABYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {

"smithy.api#enumValue": "Terabytes/Second"
          }
        },
        "BITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Bits/Second"
          }
        },
        "KILOBITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Kilobits/Second"
          }
        },
        "MEGABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Megabits/Second"
          }
        },
        "GIGABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Gigabits/Second"
```

```
            }
        },

    "TERABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits/Second"
            }
        },
        "COUNT_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Count/Second"
            }
        }
    }
},
"com.amazonaws.licensemanager#EntitlementUsage": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                "smithy.api#required": {}
            }
        },
        "ConsumedValue": {
            "target": "com.amazonaws.licensemanager#String",

        "traits": {
                "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxCount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                "smithy.api#required": {}
            }
        }
```

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        },
        "traits": {
            "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementUsageList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
```

"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",
"smithy.api#required": {}

}
},
"DryRun": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#default": false,
"smithy.api#documentation": " Checks whether you have the required permissions for the action, without actually making the request. Provides an error response if you do not have the required permissions. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},

"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license consumption expires. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#FailedDependencyException": {
"type": "structure",
"members": {
"Message": {

"target": "com.amazonaws.licensemanager#Message"
},
"ErrorCode": {
"target": "com.amazonaws.licensemanager#String"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FailedDependency",
"httpResponseCode": 424
},
"smithy.api#documentation":
" A dependency required to run the API is missing. ",
"smithy.api#error": "client",
"smithy.api#httpError": 424
}
},
"com.amazonaws.licensemanager#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#FilterName",
"traits": {
"smithy.api#documentation": " Name of the filter. Filter names are case-sensitive. "
}
},
"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " The value of the filter, which is case-sensitive. You can only
specify one value for the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter
name and value pair that is used to return more specific results from a\n describe operation. Filters can be used
to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {

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        "aws.protocols#awsQueryError": {
            "code": "FilterLimitExceeded",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#FilterList": {
    "type": "list",
     "member": {
        "target": "com.amazonaws.licensemanager#Filter"
    }
},
"com.amazonaws.licensemanager#FilterName": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#FilterValue",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#Filters": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Filter",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#GetAccessToken": {
    "type": "operation",
    "input": {
         "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
    },
    "errors": [
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```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access
 tokens\n          are valid for one hour.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenRequest": {
        "type": "structure",
        "members": {
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT
token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenResponse":
 {
        "type": "structure",
        "members": {
```

```
        "AccessToken": {
            "target": "com.amazonaws.licensemanager#TokenString",
            "traits": {
                "smithy.api#documentation": "<p>Temporary access token.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"

    },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
```

```
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
                "smithy.api#documentation": "<p>Grant details.</p>"
            }
        }
    },
    "traits": {

"smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
```

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"

},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license configuration. "

```
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits":
 {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            },
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>"
                 }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the license configuration.</p>"
                }
            },
            "LicenseCountingType": {
                "target": "com.amazonaws.licensemanager#LicenseCountingType",
```

"traits": {
"smithy.api#documentation": " Dimension for which the licenses are counted. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",

"traits": {
"smithy.api#documentation": " Number of available licenses. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Sets the number of available licenses as a hard limit. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses assigned to resources. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License configuration status. "
}

},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},

"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When
true, disassociates a resource when software is uninstalled. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

```
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {

 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license type conversion task to retrieve information
on.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license type conversion task.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the resources the license
conversion task is associated with.</p>"
```

```
            }
        },
        "SourceLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information
about the license type converted from.</p>"
            }
        },
        "DestinationLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license type converted to.</p>"
            }
        },
        "StatusMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
            "traits": {
                "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
            }
        },

  "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
            }
        },
        "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
            }
        },
        "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
            }
        }
    },
```

```
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

         },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. ",
"smithy.api#required":
{}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"ReportGenerator": {
"target": "com.amazonaws.licensemanager#ReportGenerator",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic reports about your license configurations. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#input": {}
}

```
    },
    "com.amazonaws.licensemanager#GetLicenseResponse": {
        "type": "structure",
        "members": {
            "License": {
                "target": "com.amazonaws.licensemanager#License",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },

"com.amazonaws.licensemanager#GetLicenseUsage": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

"target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
        }
```

```
    },
    "com.amazonaws.licensemanager#GetLicenseUsageRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageResponse": {
      "type": "structure",
      "members": {
        "LicenseUsage": {
          "target":
"com.amazonaws.licensemanager#LicenseUsage",
          "traits": {
            "smithy.api#documentation": "<p>License usage details.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
discovery data,\n        and so on.</p>"

  }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>SNS topic configured to receive notifications from License
Manager.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether Organizations is integrated with License
Manager for\n        cross-account discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether cross-account discovery is enabled.</p>"
                }
```

```
        },
            "LicenseManagerResourceShareArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
Manager management account \n        provides member accounts with access to this share.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Grant": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {

 "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ParentArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Parent ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>License ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "GranteePrincipalArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
```

"smithy.api#documentation": " The grantee principal ARN. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. ",
"smithy.api#required": {}
}
},
"GrantedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Granted operations. ",
"smithy.api#required": {}
}
},
"Options": {
"target": "com.amazonaws.licensemanager#Options",
"traits": {
"smithy.api#documentation": " The options specified for the grant. "
}
}
},
"traits": {
"smithy.api#documentation":

" Describes a grant. "
        }
    },
    "com.amazonaws.licensemanager#GrantList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Grant"
        }
    },
    "com.amazonaws.licensemanager#GrantStatus": {
        "type": "enum",
        "members": {
            "PENDING_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_WORKFLOW"
                }
            },
            "PENDING_ACCEPT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_ACCEPT"
                }
            },
            "REJECTED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "REJECTED"

            }
            },
            "ACTIVE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "ACTIVE"
                }
            },
            "FAILED_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "FAILED_WORKFLOW"
                }
            },
            "DELETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DELETED"
                }

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            },
            "PENDING_DELETE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_DELETE"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                "traits":
{
                    "smithy.api#enumValue": "DISABLED"
                }
            },
            "WORKFLOW_COMPLETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "WORKFLOW_COMPLETED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GrantedLicense": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>"
                }

  },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product name.</p>"
                }
            },
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>"
```

```
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>Granted license issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the granted license.</p>"

         }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>Granted license status.</p>"
            }
        },
        "Validity": {
            "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {
                "smithy.api#documentation": "<p>Date and time range during which the granted license is valid, in
ISO8601-UTC format.</p>"
            }
        },
        "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Granted license beneficiary.</p>"
            }
        },
        "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
             "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>"
            }
        },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
            }
        },
        "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
```

"traits": {
"smithy.api#documentation": " Granted license metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Creation time of the granted license. "

}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Version of the granted license. "
}
},
"ReceivedMetadata": {
"target": "com.amazonaws.licensemanager#ReceivedMetadata",
"traits": {
"smithy.api#documentation": " Granted license received metadata. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a license that is granted to a grantee. "
}
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#GrantedLicense"
}
},
"com.amazonaws.licensemanager#ISO8601DateTime":
{
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
}
},
"com.amazonaws.licensemanager#Integer": {
"type": "integer"

```
    },
    "com.amazonaws.licensemanager#InvalidParameterValueException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidParameterValueProvided",
                "httpResponseCode": 400
            },
            "smithy.api#documentation":
 "<p>One or more parameter values are not valid.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InvalidResourceStateException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidResourceState",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n        <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },

    "com.amazonaws.licensemanager#InventoryFilter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the filter.</p>",
                    "smithy.api#required": {}
                }
```

```
        },
        "Condition": {
            "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
            "traits": {
                "smithy.api#documentation": "<p>Condition of the filter.</p>",
                "smithy.api#required": {}
            }
        },
        "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Value of the filter.</p>"
            }
        }

    },
    "traits": {
        "smithy.api#documentation": "<p>An inventory filter.</p>"
    }
  },
  "com.amazonaws.licensemanager#InventoryFilterCondition": {
    "type": "enum",
    "members": {
        "EQUALS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EQUALS"
            }
        },
        "NOT_EQUALS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "NOT_EQUALS"
            }
        },
        "BEGINS_WITH": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "BEGINS_WITH"
            }
        },
        "CONTAINS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "CONTAINS"
            }
        }
    }
```

```
    },
    "com.amazonaws.licensemanager#InventoryFilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#InventoryFilter"
        }
    },
    "com.amazonaws.licensemanager#Issuer": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>",
                    "smithy.api#required": {}
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage
 of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about the issuer of a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#IssuerDetails": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>"
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
                }
            },
            "KeyFingerprint": {
```

```
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
    }
},
"com.amazonaws.licensemanager#License": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

       "smithy.api#documentation": "<p>License name.</p>"
            }
        },
        "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product name.</p>"
            }
        },
        "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product SKU.</p>"
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>License issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Home Region of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"Entitlements": {

"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " License metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License creation time. "
}
},

```
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfiguration": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            },
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>"
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the license configuration.</p>"
                }
            },
            "LicenseCountingType": {
                "target": "com.amazonaws.licensemanager#LicenseCountingType",
                "traits": {
                    "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
                 }
            },
            "LicenseRules": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>License rules.</p>"
```

```
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Number of available licenses as a hard limit.</p>"
            }
        },
        "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
             "traits": {
                "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses consumed. </p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Status of the license configuration.</p>"
            }
        },
        "OwnerAccountId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Account ID of the license configuration's owner.</p>"

        }
        },
        "ConsumedLicenseSummaryList": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Summaries for licenses consumed by various resources.</p>"
            }
        },
        "ManagedResourceSummaryList": {
            "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
```

"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {

"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource consuming licenses. "
}

```
            },
            "AssociationTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {

    "smithy.api#documentation": "<p>Time when the license configuration was associated with the resource.</p>"
                }
            },
            "AmiAssociationScope": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes an association with a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
        "type": "enum",
        "members":
{
            "AVAILABLE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "AVAILABLE"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DISABLED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
        "type": "structure",
        "members": {
            "ResourceArn": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits":
{
"smithy.api#documentation": " Type of resource. "
}
},
"ResourceStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was initially associated with the resource. "
}
},

"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"

}
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfiguration"
}
},
"com.amazonaws.licensemanager#LicenseConversionContext": {

"type": "structure",
"members": {
"UsageOperation": {
"target": "com.amazonaws.licensemanager#UsageOperation",
"traits": {
"smithy.api#documentation": " The Usage operation value that corresponds to the license type you are converting your resource from. For more information about which platforms correspond to which usage operation values see Sample data: usage operation by platform\n \n "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTask": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {

"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource associated with the license type\n conversion task. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted from. "

```
            }
        },
        "DestinationLicenseContext": {
            "target":
 "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license type this conversion task converted
to.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
            "traits": {
                "smithy.api#documentation": "<p>The status of the conversion task.</p>"
            }
        },
        "StatusMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
        },
        "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation":
 "<p>The time the conversion task was started at.</p>"
            }
        },
        "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>The time the usage operation value of the resource was
changed.</p>"
            }
        },
        "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseConversionTaskId": {
```

```
        "type": "string",
        "traits": {

       "smithy.api#length": {
            "min": 0,
            "max": 50
          },
          "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
        "type": "enum",
        "members": {
          "IN_PROGRESS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "IN_PROGRESS"
            }
          },
          "SUCCEEDED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "SUCCEEDED"
            }
          },
          "FAILED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "FAILED"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTasks":
  {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#LicenseConversionTask"
        }
      },
      "com.amazonaws.licensemanager#LicenseCountingType": {
        "type": "enum",
        "members": {
          "VCPU": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "vCPU"
            }
```

```
        },
        "INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Instance"
            }
        },
        "CORE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Core"
            }
        },
        "SOCKET": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Socket"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {
    "type": "enum",
    "members": {
        "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {

    "type": "structure",
    "members": {
```

"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Resource type. "
}
},
"ErrorMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Error message. "
}
},
"FailureTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " Failure time. "
}
},
"OperationName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the operation. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource. "
}
},
"OperationRequestedBy": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The requester is \"License Manager Automated Discovery\". "
}
},
"MetadataList": {

"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {

"smithy.api#documentation": " Reserved. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the failure of a license operation. "
}
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailure"
}
},
"com.amazonaws.licensemanager#LicenseSpecification": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",

"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseSpecification"
}
},
"com.amazonaws.licensemanager#LicenseStatus": {
"type": "enum",
"members": {
"AVAILABLE": {

"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "AVAILABLE"
}
},
"PENDING_AVAILABLE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_AVAILABLE"
}
},
"DEACTIVATED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DEACTIVATED"
}
},
"SUSPENDED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SUSPENDED"
}
},
"EXPIRED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "EXPIRED"
}
},

"PENDING_DELETE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_DELETE"
}
},
"DELETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DELETED"
}
}
}
},
"com.amazonaws.licensemanager#LicenseUsage": {
"type": "structure",
"members": {

"EntitlementUsages": {
"target": "com.amazonaws.licensemanager#EntitlementUsageList",
"traits": {
"smithy.api#documentation": " License entitlement usages. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the entitlement usage associated with a license. "

}
},
"com.amazonaws.licensemanager#LicenseUsageException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "LicenseUsageFailure",
"httpResponseCode": 412
},
"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"

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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the resource associations for the
 specified license configuration.</p>\n        <p>Resource associations need not consume licenses from a license
configuration. \n        For example, an AMI or a stopped instance might not consume a license (depending on \n
the license rules).</p>"
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results
 to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
        "type": "structure",
```

"members": {
"LicenseConfigurationAssociations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license configuration. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants distributed for the specified license. "
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranteePrincipalARN</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",

"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",

"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configuration operations that failed. "
}

```
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
      "type": "structure",
      "members": {
        "LicenseConfigurationArn": {
          "target": "com.amazonaws.licensemanager#String",
           "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
            "smithy.api#required": {}
          }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#BoxInteger",
          "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse":
{
      "type": "structure",
      "members": {
        "LicenseOperationFailureList": {
          "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
          "traits": {
            "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
```

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    },
    "com.amazonaws.licensemanager#ListLicenseConfigurations": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },

    "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations
 for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
```

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next
set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical
operators\n are supported: \n \n \n \n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n
\n <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>. \n
\n \n \n <code>usagelimitExceeded</code> - A Boolean value that
indicates whether the available licenses have been exceeded. \n Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
"type": "structure",
"members": {
"LicenseConfigurations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurations",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},

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    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasks": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
    "type": "structure",
    "members": {
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {

"smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
```

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            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>\n        Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n      </p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTasks": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configuration tasks for your
 account.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
```

"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the report generators for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest":
{
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported:
\n \n \n \n <code>LicenseConfigurationArn</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits":
{
"smithy.api#documentation": " Maximum number of results to return in a single call. "

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            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
          "ReportGenerators": {
            "target": "com.amazonaws.licensemanager#ReportGeneratorList",
            "traits": {
              "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }

        }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
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"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Describes the license configurations for the specified resource. "
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a resource that has an associated license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {
"LicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " License configurations associated with a resource. "
}
},

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        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
```

```
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
              "smithy.api#documentation": "<p>License details.</p>"
            }
          },

"NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenses": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicensesRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicensesResponse"
        },
```

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses for your account. "
}
},
"com.amazonaws.licensemanager#ListLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>Status</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token

for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#LicenseList",
"traits": {
"smithy.api#documentation": " License details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists grants that are received. Received grants are grants created while specifying the\n recipient as this Amazon Web Services account, your organization, or an organizational unit\n (OU) to which this member account belongs. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},

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            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants received for all accounts in the organization.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the received license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n
    <ul>\n        <li>\n            <p>\n                <code>ParentArn</code>\n            </p>\n        </li>\n
<li>\n            <p>\n                <code>GranteePrincipalArn</code>\n            </p>\n        </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
```

"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Lists the grants the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranterAccountId</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},

```
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
    "type": "structure",
    "members": {
        "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
             "traits": {
                "smithy.api#documentation": "<p>Received grant details.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
         },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists received licenses.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {

    "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
```

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses received for all accounts in the organization. "
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#GrantedLicenseList",
"traits": {
"smithy.api#documentation": " Lists the licenses the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>IssuerName</code>\n \n \n \n \n <code>Beneficiary</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
"type": "structure",

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    "members": {
      "Licenses": {
        "target": "com.amazonaws.licensemanager#GrantedLicenseList",
        "traits": {
          "smithy.api#documentation": "<p>Received license details.</p>"
        }
      },

      "NextToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#ListResourceInventory": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#FailedDependencyException"
      },
      {
        "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
```

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            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                 "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#InventoryFilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource.\n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                    <code>application_name</code> - The name of the application. \n                Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n    </li>\n            <li>\n                <p>\n                    <code>license_included</code> - The type of license included. \n            Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n                Possible values are <code>sql-server-enterprise</code> | \n                <code>sql-server-standard</code> | \n                <code>sql-server-web</code> |  \n                <code>windows-server-datacenter</code>.</p>\n            </li>\n            <li>\n    <p>\n                    <code>platform</code> - The platform of the resource.\n                Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n            </li>\n            <li>\n                <p>\n        <code>resource_id</code> - The ID of the resource. \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n      <code>tag:<key></code> - The key/value combination of a tag assigned \n                to the resource. Logical operators are <code>EQUALS</code> (single account) or\n                <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account).</p>\n            </li>\n        </ul>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
```

```
    "com.amazonaws.licensemanager#ListResourceInventoryResponse": {
      "type": "structure",
      "members": {
        "ResourceInventoryList": {
          "target": "com.amazonaws.licensemanager#ResourceInventoryList",
          "traits": {
            "smithy.api#documentation": "<p>Information
about the resources.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#ListTagsForResource": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Lists the tags for the specified license configuration.</p>"
```

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        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the tags.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors":
[
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
            "TokenIds": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {

                  "smithy.api#documentation": "<p>Token IDs.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
    <ul>\n        <li>\n        <p>\n        <code>LicenseArns</code>\n        </p>\n        </li>\n
</ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation":
 "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
```

```
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokensResponse": {
        "type": "structure",
        "members": {
            "Tokens": {
                "target": "com.amazonaws.licensemanager#TokenList",
                "traits": {
                    "smithy.api#documentation": "<p>Received token details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying license\n        consumption details by resource at a selected point in time. Use this action to audit the\n        current license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>resourceArn</code> - The ARN of the license configuration resource.\n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>resourceAccount</code> - The ID of the account that owns the resource. \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
                }
            }
```

```
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
        "type": "structure",
        "members": {

"LicenseConfigurationUsageList": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Location": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#Long": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#ManagedResourceSummary": {
        "type": "structure",
        "members": {
            "ResourceType":
{
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
                }
            },
            "AssociationCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
                }
            }
```

```
    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {

"type": "integer",
    "traits": {
        "smithy.api#range": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The key name.</p>"
            }
        },

"Value": {
            "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " The value. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes key/value pairs. "
}
},
"com.amazonaws.licensemanager#MetadataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Metadata"
}
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#Options": {
"type": "structure",
"members": {
"ActivationOverrideBehavior": {
"target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
"traits": {
"smithy.api#documentation": " An activation option for your grant that determines the behavior of activating a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter. \n \n \n As a license administrator, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant. \n \n \n As a grantor, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your organization. \n \n \n As a grantee, if the grantor creating the distributed grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n are activating the grant. \n \n \n <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n Use this value to activate a grant without replacing any member accounts\n active grants for the same product. \n </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n Use this value to activate a

grant and disable other active grants in any\n member accounts
for the same product. This action will also replace their\n previously activated grants with this activated grant. \n </dd>\n </dl>"
}
}
},
"traits": {
"smithy.api#documentation": " The options you can specify when you create a new version of a grant, such as activation\n override behavior. For more information, see Granted licenses in License Manager in the License Manager User Guide. "
}
},
"com.amazonaws.licensemanager#OrganizationConfiguration": {
"type": "structure",
"members": {
"EnableIntegration": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#default": false,
"smithy.api#documentation": " Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n <code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n \n ",
"smithy.api#required": {}
}
}
},

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    "traits": {
        "smithy.api#documentation": "<p>Describes product information for a license configuration.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
    "type": "structure",
    "members": {
        "ProductInformationFilterName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Filter name.</p>",
                "smithy.api#required": {}
            }
        },
        "ProductInformationFilterValue": {
            "target": "com.amazonaws.licensemanager#StringList",

      "traits": {
                "smithy.api#documentation": "<p>Filter value.</p>"
            }
        },
        "ProductInformationFilterComparator": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Logical operator.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes product information filters.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformationFilter"
    }
},
"com.amazonaws.licensemanager#ProductInformationList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformation"
     }
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
    "type": "structure",
    "members": {
```

"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the provisional configuration, in minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"com.amazonaws.licensemanager#RateLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "RateLimitExceeded",
"httpResponseCode": 429
},
"smithy.api#documentation": " Too many requests have been submitted. Try again after a brief wait. ",
"smithy.api#error": "client",
"smithy.api#httpError": 429
}
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
"type": "structure",
"members": {
"ReceivedStatus": {
"target": "com.amazonaws.licensemanager#ReceivedStatus",
"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Received status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",

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            "traits": {
                "smithy.api#documentation": "<p>Allowed operations.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Metadata associated with received licenses and grants.</p>"
    }
},
"com.amazonaws.licensemanager#ReceivedStatus": {
    "type": "enum",
    "members": {
        "PENDING_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_WORKFLOW"
            }
        },
        "PENDING_ACCEPT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue":
"PENDING_ACCEPT"
            }
        },
        "REJECTED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "REJECTED"
            }
        },
        "ACTIVE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "ACTIVE"
            }
        },
        "FAILED_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
```

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        },
        "DISABLED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DISABLED"
            }
        },
        "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#RedirectException": {
    "type": "structure",
    "members": {
        "Location": {
            "target": "com.amazonaws.licensemanager#Location",
            "traits": {
                "smithy.api#httpHeader": "Location"
            }
        },
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 308
    }
},
"com.amazonaws.licensemanager#RejectGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#RejectGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#RejectGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}

  }
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
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"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#RenewType":
{
"type": "enum",
"members": {
"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"WEEKLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Weekly"
}
},
"MONTHLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Monthly"
}
}
}
},
"com.amazonaws.licensemanager#ReportContext": {
"type": "structure",
"members": {
"licenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details of the license configuration that this generator reports on. "
}
},
"com.amazonaws.licensemanager#ReportFrequency": {
"type": "structure",
"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "
}
},
"period": {
"target": "com.amazonaws.licensemanager#ReportFrequencyType",

"traits": {
"smithy.api#documentation": " Time period between each report. The period can be daily, weekly, or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"com.amazonaws.licensemanager#ReportFrequencyType": {
"type": "enum",
"members": {
"DAY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DAY"
}
},
"WEEK": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "WEEK"
}
},

"MONTH": {
"target": "smithy.api#Unit",
"traits":
{
"smithy.api#enumValue": "MONTH"
}
}
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the report generator. "
}
},
"ReportType": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports that are generated. "
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " License
configuration type for this generator. "
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. "
}
},
"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}

},
"LastRunFailureReason":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Failure message for the last report generation attempt. "
}
},
"LastReportGenerationTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the last report was generated at. "
}
},
"ReportCreatorAccount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Web Services account ID used to create the report generator. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the report was created. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags associated with the report generator. "
}

}
},
"traits": {
"smithy.api#documentation": " Describe the details of a report generator. "
}
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportGenerator"
}
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
}
}
},
"com.amazonaws.licensemanager#ReportType": {
"type": "enum",
"members": {
"LICENSE_CONFIGURATION_SUMMARY_REPORT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "LicenseConfigurationSummaryReport"
}

},
"LICENSE_CONFIGURATION_USAGE_REPORT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "LicenseConfigurationUsageReport"
}
}
}
},
"com.amazonaws.licensemanager#ReportTypeList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportType"
}
},
"com.amazonaws.licensemanager#ResourceInventory": {
"type": "structure",
"members": {

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            "ResourceId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits":
{
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "Platform": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform of the resource.</p>"
                }
            },
            "PlatformVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
                }
            },
            "ResourceOwningAccountId":
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ResourceInventoryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ResourceInventory"
        }
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},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "ResourceLimitExceeded",

         "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>Your resource limits have been exceeded.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "InvalidResource.NotFound",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The resource cannot be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceType": {
    "type": "enum",
     "members": {
        "EC2_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_INSTANCE"
            }
        },
        "EC2_HOST": {
            "target": "smithy.api#Unit",
            "traits": {
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"smithy.api#enumValue": "EC2_HOST"
}
},
"EC2_AMI": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "EC2_AMI"
}
},
"RDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "RDS"
}
},
"SYSTEMS_MANAGER_MANAGED_INSTANCE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
}
}
}
},
"com.amazonaws.licensemanager#S3Location": {
"type": "structure",
"members": {
"bucket": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the S3 bucket reports are published to. "
}
},
"keyPrefix": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Prefix of the S3 bucket reports are published to. "
}
}
},
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
"type": "structure",
"members": {
"Message": {

"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InternalError",
"httpResponseCode": 500
},
"smithy.api#documentation": " The server experienced an internal error. Try again. ",
"smithy.api#error": "server",
"smithy.api#httpError": 500
}
},
"com.amazonaws.licensemanager#SignedToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 4096
}
}
},
"com.amazonaws.licensemanager#StatusReasonMessage": {
"type": "string",
"traits":
{
"smithy.api#length": {
"min": 0,
"max": 400
},
"smithy.api#pattern": "^[\\s\\S]+$"
}
},
"com.amazonaws.licensemanager#String": {
"type": "string"
},
"com.amazonaws.licensemanager#StringList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#String"
}
},
"com.amazonaws.licensemanager#Tag": {
"type": "structure",
"members": {
"Key": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Tag key. "

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            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation":
"<p>Tag value.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#String"
        }
      },
      "com.amazonaws.licensemanager#TagList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#Tag"
        }
      },
      "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
          {
            "target":
"com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
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            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits":
 {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>One or more tags.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
```

"TokenType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Type of token generated. The supported value is <code>REFRESH_TOKEN</code>. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"ExpirationTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Token expiration time, in ISO8601-UTC format. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller. "
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the roles included in the token. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. "
}
}
},
"traits": {

"smithy.api#documentation": " Describes a token. "
}
},
"com.amazonaws.licensemanager#TokenList": {
"type": "list",

"member": {
"target": "com.amazonaws.licensemanager#TokenData"
}
},
"com.amazonaws.licensemanager#TokenString": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 4096
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#TokenType": {
"type": "enum",
"members": {
"REFRESH_TOKEN": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REFRESH_TOKEN"
}
}
}
},
"com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException":
{
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The digital signature method is unsupported. Try your request
again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#UntagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UntagResourceResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Removes the specified tags from the specified license configuration. "
}
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",
"traits": {
"smithy.api#documentation": " Keys identifying the tags to remove. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
"type": "structure",
"members": {},

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Modifies the attributes of an existing license configuration. "
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},

"LicenseConfigurationStatus": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
"traits": {
"smithy.api#documentation": " New status of the license configuration. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " New license rule. The only rule that you can add after you create a license\n configuration is licenseAffinityToHost. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " New number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",

"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
},
"traits":
{
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},

```
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates a report generator.</p>\n        <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to update.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportGeneratorName": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>",
                    "smithy.api#required": {}
                }
            },
            "Type": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports to generate. The following report types are supported:</p>\n        <ul>\n            <li>\n                <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p>\n            </li>\n            <li>\n                <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n            </li>\n        </ul>",
                    "smithy.api#required": {}
                }
            },
            "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
                    "smithy.api#documentation": "<p>The report context.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportFrequency": {
                "target": "com.amazonaws.licensemanager#ReportFrequency",
```

"traits":
{
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },

            {
                "target": "com.amazonaws.licensemanager#InvalidResourceStateException"
            },
            {
                "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p>\n        <p>You can update the license specifications of AMIs, instances, and
hosts.\n        You cannot update the license specifications for launch templates and CloudFormation templates, \n
  as they send license configurations to the operation that creates the resource.</p>"
        }
    },

    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "AddLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
                }
            },
            "RemoveLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation":
 "<p>ARNs of the license configurations to remove.</p>"
                }
```

```
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {},
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
    }
},
"com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
    "type": "structure",
    "members": {
        "S3BucketArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon S3 bucket where the License
Manager information is stored. "
}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Enables integration with Organizations for cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Activates cross-account discovery. "

}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UsageOperation": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
}
}
},
"com.amazonaws.licensemanager#ValidationException": {

```
            "type": "structure",
            "members": {
                "Message": {
                    "target": "com.amazonaws.licensemanager#Message"
                }
            },
            "traits": {
                "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",

        "smithy.api#error": "client",
                "smithy.api#httpError": 400
            }
        }
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {
```

```
 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version
 of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack,
 options); err != nil {
  return err
```

```
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if
 err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
```

```
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
```

1.3932 codegangsta-cli 1.22.14

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1.3933 genproto-googleapis-rpc 0.0.0-20240903143218-8af14fe29dc1

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1.3934 aws-sdk-go-v2-service-internal-presigned-url 1.10.10

1.3934.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil,
 err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
```

```
 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err !=
 nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
  return err
 }
```

```
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
```

AWS SDK for Go

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```
Copyright 2014-2015 Stripe, Inc.
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
     - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
       with:
         python-version: ${{ matrix.python-version }}
     # ScanCode
     - name: Self-configure scancode
       working-directory: ./scancode-toolkit
       run: ./scancode --help
     - name: Run Scan code on target
       run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
     - name: Run Scan code on pr ref
       run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
```

```
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
```

```
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return
 err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
```

```
  OperationName: "CheckInLicense",
 }
}
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
      "type": "integer"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
      "type": "long"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The type of name to filter by.</p>"
          }
        },
        "Values": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
          "traits": {
            "smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
          }
        },
        "Operator": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
           "traits": {
            "smithy.api#documentation": "<p>An operator for filtering results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>A filter object that is used to return more specific results from a describe
operation.\n      Filters can be used to match a set of resources by specific criteria.</p>"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
      "type": "operation",
      "input": {
```

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
},
"output": {

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions service settings. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/GetServiceSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest":
{
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " Lists the settings defined for Linux subscriptions discovery. The
settings include if\n Organizations integration has been enabled, and
which Regions data will be aggregated from. "
}

```
            },
            "Status": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
                }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
                "traits": {
                    "smithy.api#documentation": "<p>A message which details the Linux subscriptions service settings
current status.</p>"
                }
            },
            "HomeRegions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>The Region in which License Manager displays
 the aggregated data for Linux\n      subscriptions.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
        "type": "structure",
        "members": {
            "AmiId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The AMI ID used to launch the instance.</p>"
                }
            },
            "InstanceID": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The instance ID of the resource.</p>"
                }
            },
            "InstanceType": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The instance type of the resource.</p>"
                }

        },
            "AccountID": {
                "target": "smithy.api#String",
```

"traits": {
"smithy.api#documentation": " The account ID which owns the instance. "
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of the instance. "
}
},
"Region": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The Region the instance is running in. "
}
},
"UsageOperation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The usage operation of the instance. For more information, see For more information, see\n Usage\n operation values in the License Manager User Guide. "
}
},
"ProductCode": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
"traits": {
"smithy.api#documentation": " The product code for the instance. For more information, see Usage\n operation values in the License Manager User Guide . "
}
},
"LastUpdatedTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The time in which the last discovery updated the instance details. "
}
},
"SubscriptionName": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription being used by the instance. "
}
}
},
"traits": {

"smithy.api#documentation": " Details discovered information about a running instance using Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " An exception occurred with the service. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
"type": "service",
"version": "2018-05-10",
"operations": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
}
],

"traits": {
"aws.api#service": {
"sdkId": "License Manager Linux Subscriptions",
"arnNamespace": "license-manager-linux-subscriptions",
"cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
},
"aws.auth#sigv4": {
"name": "license-manager-linux-subscriptions"

},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",

"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"
]
},
"smithy.api#documentation": " With License Manager, you can discover and track your commercial Linux subscriptions on running\n Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager Linux Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {

"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}
},
"rules": [
{
"conditions": [
{
"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
]
}
],
"type": "tree",
"rules": [
{

"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
},
true
]
}
],
"error": "Invalid Configuration: FIPS and custom endpoint are not supported",
"type": "error"
},
{
"conditions": [],
"type": "tree",

```
                "rules": [
                    {

                "conditions": [
                        {
                            "fn": "booleanEquals",
                            "argv": [
                                {
                                    "ref": "UseDualStack"
                                },
                                true
                            ]
                        }
                    ],
                    "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                    "type": "error"
                },
                {
                    "conditions": [],

            "endpoint": {
                        "url": {
                            "ref": "Endpoint"
                        },
                        "properties": {},
                        "headers": {}
                    },
                    "type": "endpoint"
                }
                ]
            }
        ]
    },
    {
        "conditions": [],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "isSet",

"argv": [
                        {
                            "ref": "Region"
                        }
                    ]
                }
```

```
                    ],
                    "type": "tree",
                    "rules": [
                      {
                        "conditions": [
                          {
                            "fn": "aws.partition",
                            "argv": [
                              {
                                "ref": "Region"
                              }
                            ],

"assign": "PartitionResult"
                          }
                        ],
                        "type": "tree",
                        "rules": [
                          {
                            "conditions": [
                              {
                                "fn": "booleanEquals",
                                "argv": [
                                  {
                                    "ref": "UseFIPS"
                                  },
                                  true
                                ]
                              },

                     {
                                "fn": "booleanEquals",
                                "argv": [
                                  {
                                    "ref": "UseDualStack"
                                  },
                                  true
                                ]
                              }
                            ],
                            "type": "tree",
                            "rules": [
                              {
                                "conditions": [
                                  {

                               "fn": "booleanEquals",
                                    "argv": [
```

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                                        true,
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                                            "fn": "getAttr",
                                            "argv": [
                                                {
                                                    "ref": "PartitionResult"
                                                },
                                                "supportsFIPS"
                                            ]

}
                                    ]
                                },
                                {
                                    "fn": "booleanEquals",
                                    "argv": [
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                                        {
                                            "fn": "getAttr",
                                            "argv": [
                                                {
                                                    "ref": "PartitionResult"
                                                },

                                     "supportsDualStack"
                                            ]
                                        }
                                    ]
                                }
                            ],
                            "type": "tree",
                            "rules": [
                                {
                                    "conditions": [],
                                    "type": "tree",
                                    "rules": [
                                        {

                        "conditions": [],
                                            "endpoint": {
                                                "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                                "properties": {},
                                                "headers": {}
                                            },
                                            "type": "endpoint"
                                        }
                                    ]
```

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                    }
                ]

            },
                {
                    "conditions": [],
                    "error": "FIPS and DualStack are enabled, but this partition does not support one or both",
                    "type": "error"
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            ]
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        {
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                    "argv": [
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"ref": "UseFIPS"
                        },
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                    ]
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            ],
            "type": "tree",
            "rules": [
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                    "conditions": [
                        {
                            "fn": "booleanEquals",
                            "argv": [
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{
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                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsFIPS"
                                ]
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                    "type": "tree",
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                            "conditions": [],
                            "type": "tree",
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                                {
                                    "conditions": [],
                                    "endpoint": {
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fips.{Region}.{PartitionResult#dnsSuffix}",
                                        "properties": {},
                                        "headers": {}

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                                    "type": "endpoint"
                                }
                            ]
                        }
                    ]
                },
                {
                    "conditions": [],
                    "error": "FIPS is enabled but this partition does not support FIPS",
                    "type": "error"
                }
            ]

    },
                {
                    "conditions": [
                        {
                            "fn": "booleanEquals",
                            "argv": [
                                {
                                    "ref": "UseDualStack"
                                },
                                true
                            ]
                        }
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                    "rules": [
                        {

                     "conditions": [
                        {
                            "fn": "booleanEquals",
                            "argv": [
```

```
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                    {
                        "fn": "getAttr",
                        "argv": [
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                                "ref": "PartitionResult"
                            },
                            "supportsDualStack"
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        "type": "tree",
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                "rules": [
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                        "conditions": [],

                    "endpoint": {
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subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                            "properties": {},
                            "headers": {}
                        },
                        "type": "endpoint"
                    }
                ]
            }
        ]
    },

{
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        "error": "DualStack is enabled but this partition does not support DualStack",
        "type": "error"
    }
  ]
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  "rules": [
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        "conditions": [],
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"headers": {}
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"type": "endpoint"
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}
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"error": "Invalid Configuration: Missing Region",
"type": "error"
}
]
}
]
},
"smithy.rules#endpointTests": {
"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": true
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"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {

"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",

"UseFIPS": true,
"UseDualStack": false
}
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{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {

"url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {

"url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
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"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
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"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
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"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
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"url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
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          "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
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            }
          },
          "params": {
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            "UseFIPS": true,
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          "expect": {
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{
              "url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
            }
          },
          "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
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            }
          },
          "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
             "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
          "expect": {
            "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
          },
          "params": {
            "Region": "us-iso-east-1",
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"UseFIPS": true,
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"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect": {
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}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
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"UseDualStack": true
}
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{

"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
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"endpoint": {
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"params": {
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"UseDualStack": false
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
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"params": {

"Region": "us-isob-east-1",
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"UseDualStack": true
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
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"url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
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"params": {
"Region": "us-isob-east-1",
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"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",

"UseFIPS": false,
"UseDualStack": false
}
},
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"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {

"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
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{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",

"expect": {
"endpoint": {
"url": "https://example.com"
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"params": {
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
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},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
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"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,

"Endpoint": "https://example.com"
}
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{
"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
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"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true,

"Endpoint": "https://example.com"
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{
"documentation": "Missing region",
"expect": {
"error": "Invalid Configuration: Missing Region"
}

}
],
"version": "1.0"
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "Enabled",
"value": "Enabled",
"documentation": "Enabled LinuxSubscriptionsDiscovery"
},
{
"name": "Disabled",
"value": "Disabled",
"documentation": "Disabled LinuxSubscriptionsDiscovery"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
"type": "structure",
"members": {
"SourceRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Regions in which to discover data for Linux subscriptions. ",
"smithy.api#required": {}
}
},
"OrganizationIntegration": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
"traits": {
"smithy.api#documentation": " Details if you have enabled resource discovery across your accounts in Organizations. ",

"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Lists the settings defined for discovering Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
"type":
"operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the running Amazon EC2 instances that were discovered with
commercial Linux\n subscriptions. ",
"smithy.api#http": {

"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptionInstances"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Instances"
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
"type": "structure",

"members": {
"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n match, or don't match a certain Amazon Machine Image (AMI) ID. \n The valid names for this filter are: \n \n \n \n <code>AmiID</code>\n \n \n \n \n <code>InstanceID</code>\n \n \n \n \n <code>AccountID</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Region</code>\n \n \n \n \n <code>UsageOperation</code>\n \n \n \n \n <code>ProductCode</code>\n \n \n \n \n <code>InstanceType</code>\n \n \n \n The valid Operators for this filter are: \n \n \n \n <code>contains</code>\n \n \n \n \n <code>equals</code>\n \n \n \n \n <code>Notequal</code>\n \n \n "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "

}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. ",
"smithy.api#length": {
"min": 1,
"max": 16384
}
}
}
},
"traits": {
"smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
"type": "structure",
"members": {
"Instances": {

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
"traits": {
"smithy.api#documentation":
" An array that contains instance objects. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions that have been discovered. If you have linked your\n organization, the returned results will include data aggregated across your accounts in\n Organizations. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptions"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Subscriptions"

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            }

        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by the name of\n
 <code>Subscription</code> with an optional operator to see subscriptions that match,\n      partially match, or don't
match a certain subscription's name.</p>\n         <p>The valid names for this filter are:</p>\n         <ul>\n
<li>\n              <p>\n                  <code>Subscription</code>\n              </p>\n           </li>\n         </ul>\n
<p>The valid Operators for this filter are:</p>\n
         <ul>\n           <li>\n              <p>\n                  <code>contains</code>\n              </p>\n           </li>\n
<li>\n              <p>\n                  <code>equals</code>\n              </p>\n           </li>\n           <li>\n              <p>\n
              <code>Notequal</code>\n              </p>\n           </li>\n         </ul>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>",
                    "smithy.api#length": {

                        "min": 1,
                        "max": 16384
                    }
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
        "type": "structure",
        "members": {
            "Subscriptions": {
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"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
"traits": {
"smithy.api#documentation": " An array that contains subscription objects. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for
the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "EQUAL",
"value": "Equal",
"documentation": "Equal operator"
},
{
"name": "NOT_EQUAL",
"value": "NotEqual",
"documentation": "Not equal operator"
},
{
"name": "CONTAINS",
"value": "Contains",
"documentation": "Contains operator"
}
],
"smithy.api#length": {
"min": 1,
"max": 20
}
}
},

"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "Enabled",
"value": "Enabled",

"documentation": "Enabled OrganizationIntegration"
},
{
"name": "Disabled",
"value": "Disabled",
"documentation": "Disabled OrganizationIntegration"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
"type": "list",
"member": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
"type": "string",
"traits": {
"smithy.api#enum": [

{
"name": "InProgress",
"value": "InProgress",
"documentation": "InProgress status"
},
{
"name": "Completed",
"value": "Completed",
"documentation": "Completed status"
},
{
"name": "Successful",
"value": "Successful",
"documentation": "Successful status"
},
{
"name": "Failed",
"value": "Failed",
"documentation": "Failed status"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
"type": "list",
"member": {
"target": "smithy.api#String",

"traits":
{
"smithy.api#length": {
"min": 1,
"max": 100
}
}
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
},
"smithy.api#uniqueItems": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
"type": "map",
"key": {
"target": "smithy.api#String"
},
"value": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
"type": "structure",
"members": {
"Name": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription. "

}
},
"Type": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own\n Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the\n Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS. "
}
},
"InstanceCount": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
"traits": {
"smithy.api#documentation": " The total amount of running instances using this subscription. "

```
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>An object which details a discovered Linux
subscription.</p>"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The request was denied due to request throttling.</p>",
          "smithy.api#error": "client"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
        },

      "output": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Updates the service settings for Linux subscriptions.</p>",
```

"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/UpdateServiceSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest":
{
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Describes if the discovery of Linux subscriptions is enabled. ",
"smithy.api#required": {}
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The
settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated
from. ",

"smithy.api#required": {}
}
},
"AllowUpdate": {
"target": "smithy.api#Boolean",
"traits": {
"smithy.api#documentation": " Describes if updates are allowed to the service settings for Linux
subscriptions. If you\n allow updates, you can aggregate Linux subscription data in more than one home
Region. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},

"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The provided input is not valid. Try your request again. ",
"smithy.api#error": "client"
}
}
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - Beneficiary
 //   - ProductSKU
 //   - Fingerprint
 //
   - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string
```

```
 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if
 err := addProtocolFinalizerMiddlewares(stack, options, "ListLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
```

```
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}
```

```
func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
     ServiceID,
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 //
 This member is required.
 LicenseType types.LicenseType
```

```
 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack,
 options, "DisassociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
```

```
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
```

```
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource
 Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil
 {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
```

```
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack);
err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier
 that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
```

```
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
```

```
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return
err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide
 to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
```

```
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity
 *types.DatetimeRange

 // Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
```

```
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
 return fmt.Errorf("add
protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName:
 "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
```

```
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
```

```
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return
err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
```

```
 if err = addOpGetLicenseValidationMiddleware(stack);
 err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "GetLicense",
 }
}
```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
```

```
//
  - ProductSKU
//   - Status
//   - Fingerprint
//   - IssuerName
//   - Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
 return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
middleware.After)
if err != nil {
 return err
}
```

```
 if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
 }
}
```

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```
{
  "smithy": "2.0",
  "shapes": {
```

"com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " You don't have sufficient access to perform this action. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
"type": "structure",
"members": {
"DirectoryId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The directory ID for an Active Directory identity provider. "
}
}
},
"traits": {
"smithy.api#documentation":
" Details about an Active Directory identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"

```
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Associates the user to an EC2 instance to utilize user-based
subscriptions.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related
costs will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing
status) in Amazon Web Services Billing. For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n
        monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/AssociateUser"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the
 EC2 instance, which provides user-based subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>The identity provider of the user.</p>",
```

"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
"type": "integer"
},
"com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request couldn't be completed because it conflicted with the current state of the\n resource. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deregisters the identity provider from providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/DeregisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",

```
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
    "type": "structure",
    "members": {
        "IdentityProviderSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
            "traits": {
                "smithy.api#documentation":
"<p>Metadata that describes the results of an identity provider operation.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
         },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
```

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        ],
        "traits": {
            "smithy.api#documentation": "<p>Disassociates the user from an EC2 instance providing user-based
subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/DisassociateUser"
            },
            "smithy.api#idempotent": {}
        }

    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation":
 "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
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"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
}
},

"com.amazonaws.licensemanagerusersubscriptions#Filter": {
"type": "structure",
"members": {
"Attribute": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of an attribute to use as a filter. "
}
},
"Operation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of search (For example, eq, geq, leq) "
}
},
"Value": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Value of the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter name and value pair that is used
to return more specific results from a describe\n operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n attributes, or IDs. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
}
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"com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
"type": "union",

"members": {
"ActiveDirectoryIdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
"traits": {
"smithy.api#documentation": " An object that details an Active Directory identity provider. "
}
}
},
"traits": {
"smithy.api#documentation":
" Details about an identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " An object that details the registered identity providers product
related configuration\n settings such as the subnets to provision VPC endpoints. ",
"smithy.api#required":
{}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of an identity provider. ",
"smithy.api#required": {}
}
},
"FailureMessage": {
"target": "smithy.api#String",

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                "traits": {
                    "smithy.api#documentation": "<p>The failure message associated with an identity provider.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
 "<p>Describes an identity provider.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status
 of an EC2 instance resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "Products": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>A list of provided user-based subscription products.</p>",
                    "smithy.api#required": {}
                }
            },
            "LastStatusCheckDate": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The date of the last status check.</p>"
                }
            },
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"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for an EC2 instance. "
}

}
},
"traits": {
"smithy.api#documentation": " Describes an EC2 instance providing user-based subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits":
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"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a user associated with an EC2 instance. ",

"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for users of an EC2 instance. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"AssociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was associated with an EC2 instance. "
}
},
"DisassociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was disassociated from an EC2 instance. "
}
}

},
"traits": {
"smithy.api#documentation": " Describes users of an EC2 instance providing user-based subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
}
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"com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {

"smithy.api#documentation": " An exception occurred with the service. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
"type": "service",

"version": "2018-05-10",
"operations": [
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"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
}
],
"traits": {
"aws.api#service": {
"sdkId": "License Manager User Subscriptions",
"arnNamespace": "license-manager-user-subscriptions",

"cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
},
"aws.auth#sigv4": {
"name": "license-manager-user-subscriptions"
},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",
"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"

]
},
"smithy.api#documentation": " With License Manager, you can create user-based subscriptions to utilize licensed software with\n a per user subscription fee on Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager User Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack

endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}

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"rules": [
{
"conditions": [
{
"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
]
}
],
"type": "tree",
"rules": [
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
},

true
]
}
],
"error": "Invalid Configuration: FIPS and custom endpoint are not supported",
"type": "error"

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            },
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                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseDualStack"
                            },
                            true
                        ]
                    }
                ],

"error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                "type": "error"
            },
            {
                "conditions": [],
                "endpoint": {
                    "url": {
                        "ref": "Endpoint"
                    },
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ]
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                "argv": [

{
                        "ref": "Region"
                    }
                ]
            }
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        "type": "tree",
        "rules": [
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                "conditions": [
                    {
                        "fn": "aws.partition",
```

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                "argv": [
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                    "ref": "Region"
                  }
                ],
                "assign": "PartitionResult"
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            ],
            "type": "tree",

      "rules": [
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                "conditions": [
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                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseFIPS"
                      },
                      true
                    ]
                  },
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseDualStack"

                      },
                      true
                    ]
                  }
                ],
                "type": "tree",
                "rules": [
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                    "conditions": [
                      {
                        "fn": "booleanEquals",
                        "argv": [
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                          {
                            "fn": "getAttr",

  "argv": [
                                  {
                                    "ref": "PartitionResult"
                                  },
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"supportsFIPS"
]
}
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{
"fn": "booleanEquals",
"argv": [
true,
{

"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsDualStack"
]
}
]
}
],
"type": "tree",
"rules": [
{

"conditions": [],
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
},
{
"conditions": [],
"error": "FIPS and DualStack are enabled, but this partition does not support one or both",
"type": "error"
}
]
},
{
"conditions": [
{

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                "fn": "booleanEquals",
                "argv": [
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                    "ref": "UseFIPS"
                  },
                  true
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                "conditions": [
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                    "fn": "booleanEquals",
                    "argv": [
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                      {
                        "fn": "getAttr",
                        "argv": [
                          {
                            "ref": "PartitionResult"
                          },
                          "supportsFIPS"

                ]
                      }
                    ]
                  }
                ],
                "type": "tree",
                "rules": [
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                    "conditions": [],
                    "endpoint": {
                      "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                      "properties": {},
                      "headers": {}

            },
                    "type": "endpoint"
                  }
                ]
              },
              {
                "conditions": [],
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                "error": "FIPS is enabled but this partition does not support FIPS",
                "type": "error"
            }
        ]
    },
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseDualStack"
                    },
                    true
                ]
            }
        ],
        "type": "tree",
        "rules": [
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                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
                            {

                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsDualStack"
                                ]
                            }
                        ]
                    }
                ],
                "type": "tree",
                "rules": [
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                            "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                            "properties": {},
                            "headers": {}
```

```
                    },
                    "type": "endpoint"
                }
            ]
        },
        {
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            "error": "DualStack is enabled but this partition does
not support DualStack",
            "type": "error"
        }
    ]
},
{
    "conditions": [],
    "endpoint": {
        "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
        "properties": {},
        "headers": {}
    },
    "type": "endpoint"
}
]
}
]
},
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"conditions":
[],
"error": "Invalid Configuration: Missing Region",
"type": "error"
}
]
},
"smithy.rules#endpointTests": {
"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": true
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            }
        },
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            "documentation":
"For region us-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
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                    "url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false
            }
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            "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
                }
            },

        "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true
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        },
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            "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region cn-north-1 with
FIPS enabled and DualStack enabled",
            "expect": {
                "endpoint": {
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"url": "https://license-manager-user-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},

"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,

"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
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}
},
"params": {
"Region": "us-gov-east-1",
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"UseDualStack": false
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with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {

"url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect":
{
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack":
true
}
},
{

"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but
this partition does not support one or both"
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"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}

},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}

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        },
        {
          "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
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              "url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
            }
          },
           "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
          "expect": {
            "endpoint": {
              "url": "https://example.com"
            }
          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": false,
            "Endpoint": "https://example.com"
          }
        },
        {

"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
          "expect": {
            "endpoint": {
              "url": "https://example.com"
            }
          },
          "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Endpoint": "https://example.com"
          }
        },
        {
          "documentation": "For custom endpoint with fips enabled and dualstack disabled",
          "expect": {
            "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
          },
          "params": {
```

```
                "Region": "us-east-1",
                 "UseFIPS": true,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips disabled and dualstack enabled",
            "expect": {
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "Missing region",
            "expect": {
                 "error": "Invalid Configuration: Missing Region"
            }
        }
    ],
    "version": "1.0"
  }
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
     },
    {
```

"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the identity providers for user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/ListIdentityProviders"
},
"smithy.api#paginated":
{
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "IdentityProviderSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
{
"type": "structure",

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    "members": {
        "IdentityProviderSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
                "smithy.api#required": {}
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
    ],
    "traits": {
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"smithy.api#documentation": " Lists the EC2 instances providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/instance/ListInstances"
},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "InstanceSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
"type": "structure",
"members": {
"InstanceSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list instances operation. "
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the user-based subscription products available from an identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/ListProductSubscriptions"
},
"smithy.api#paginated": {

"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "ProductUserSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
"type": "structure",
"members": {
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name
of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {

"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match
one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {

"type": "structure",
"members": {
"ProductUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list product subscriptions operation. "
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists user associations for an identity provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListUserAssociations"
            },
            "smithy.api#paginated":
 {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity
 provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify.</p>"
```

```
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for
the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
    "type": "structure",
    "members": {
        "InstanceUserSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Metadata that describes the list user association operation.</p>"
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
    "type": "structure",
    "members": {

    "Username": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                "smithy.api#required": {}
            }
        },
        "Product": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                "smithy.api#required": {}
            }
        },
        "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
```

"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}

},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a product for a user. ",
"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for a product for a user. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"SubscriptionStartDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The
start date of a subscription. "
}
},
"SubscriptionEndDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The end date of a subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " The summary of the user-based subscription products for a user. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
}

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},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Registers an identity provider for user-based subscriptions.</p>",
        "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/identity-provider/RegisterIdentityProvider"
        },
        "smithy.api#idempotent": {}
    }
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
    "type": "structure",
    "members": {
        "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
```

"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings such as the\n subnets to provision VPC endpoints. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The resource couldn't be found. ",
"smithy.api#error": "client",
"smithy.api#httpError": 404
}
},

"com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
"type": "string",

"traits": {
"smithy.api#length": {
"min": 5,
"max": 200
},
"smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request failed because a service quota is exceeded. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Settings": {
"type": "structure",
"members": {
"Subnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation":
" The subnets defined for the registered identity provider. ",
"smithy.api#length": {
"min": 1
},
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID that allows inbound TCP port 1688
communication between resources in\n your VPC and the VPC endpoint for activation servers. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings

such as the\n subnets to provision VPC endpoints, and the security group ID that
is associated with the VPC\n endpoints. The security group should permit inbound TCP port 1688
communication from resources\n in the VPC. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Starts a product subscription for a user with the specified identity
provider. \n <note>\n Your estimated bill for charges on the number of users and related costs
will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing status)
in Amazon Web Services Billing.
For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n monthly
charges in the Amazon Web Services Billing User Guide. \n </note>",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/StartProductSubscription"

```
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                 "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
        "type": "structure",
         "members": {
            "ProductUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the start product subscription
operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
```

"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Stops a product subscription for a user with the specified identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/StopProductSubscription"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required":
{}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
"type": "structure",
"members": {
"ProductUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
"traits": {
"smithy.api#documentation":
" Metadata that describes the start product subscription operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StringList": {
"type": "list",
"member": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Subnet": {
"type": "string",

"traits": {
"smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
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"com.amazonaws.licensemanagerusersubscriptions#Subnets": {
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"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
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"com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
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"members": {
"message": {

"target": "smithy.api#String"
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"traits": {
"smithy.api#documentation": " The request was denied because of request throttling. Retry the request. ",
"smithy.api#error": "client"
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"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
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"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
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"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
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"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
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"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
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"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
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"traits": {
"smithy.api#documentation": " Updates additional product configuration settings for the registered

identity\n provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/UpdateIdentityProviderSettings"
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"smithy.api#idempotent": {}
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"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
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"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#required": {}
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"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
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"UpdateSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings. You can\n update any combination of settings in a single operation such as the: \n \n \n Subnets which you want to add to provision VPC endpoints. \n \n \n Subnets which you want to remove the VPC endpoints from. \n \n \n Security group ID which permits traffic to the VPC endpoints. \n \n ",
"smithy.api#required": {}
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"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#required": {}
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                    "smithy.api#documentation": "<p>The ID of one or more subnets in which License Manager will
create a VPC endpoint for products that\n      require connectivity to activation servers.</p>",
                    "smithy.api#required": {}
                }
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            "RemoveSubnets": {
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                "traits": {
                    "smithy.api#documentation": "<p>The ID of one or more subnets to remove.</p>",
                    "smithy.api#required": {}
                }
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            "SecurityGroupId": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
                "traits": {
                    "smithy.api#documentation": "<p>A security group ID
 that allows inbound TCP port 1688 communication between resources in\n      your VPC and the VPC endpoints for
activation servers.</p>"
                }
            }
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        "traits": {
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settings such as\n      the subnets to provision VPC endpoints.</p>"
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            "smithy.api#documentation": "<p>A parameter is not valid.</p>",
            "smithy.api#error": "client"
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        "namespace": "*"
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  "shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
      "type": "service",
      "version": "2018-08-01",
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          "target": "com.amazonaws.licensemanager#AcceptGrant"
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      "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
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      "target": "com.amazonaws.licensemanager#CreateLicenseVersion"
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      "target": "com.amazonaws.licensemanager#CreateToken"
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      "target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
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      "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
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      "target": "com.amazonaws.licensemanager#DeleteToken"
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    {
      "target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

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    {
      "target": "com.amazonaws.licensemanager#GetAccessToken"
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    {
      "target": "com.amazonaws.licensemanager#GetGrant"
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"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
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"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
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"target": "com.amazonaws.licensemanager#TagResource"
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"target": "com.amazonaws.licensemanager#UntagResource"
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"target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
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"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
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"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
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"target": "com.amazonaws.licensemanager#UpdateServiceSettings"
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"arnNamespace": "license-manager",
"cloudFormationName": "LicenseManager",
"cloudTrailEventSource": "licensemanager.amazonaws.com",
"endpointPrefix": "license-manager"
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"aws.auth#sigv4": {
"name": "license-manager"
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"aws.protocols#awsJson1_1": {},
"smithy.api#documentation": " License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers. ",
"smithy.api#title": "AWS License Manager",
"smithy.api#xmlNamespace": {
"uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
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"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
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"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
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"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
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"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
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              }
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                "argv": [
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              }
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            "type": "error"
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            "type": "error"
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                    "argv": [
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                    "assign": "PartitionResult"
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                        "argv": [
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"UseFIPS"
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                                    "ref": "PartitionResult"
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                                    "ref": "PartitionResult"
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"supportsDualStack"
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fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
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                        "type": "endpoint"
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both",
                "type": "error"
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              "headers": {}
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            "type": "endpoint"
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partition does not support FIPS",
        "type": "error"
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        "argv": [
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                                "ref": "PartitionResult"
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"supportsDualStack"
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                          }
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manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
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                        "type": "endpoint"
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                    "type": "error"
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    "type": "error"
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"smithy.rules#endpointTests": {
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            "expect": {
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                    "url": "https://license-manager.af-south-1.amazonaws.com"
                }
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            "params": {
                "Region": "af-south-1",
                "UseFIPS": false,
                "UseDualStack": false
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            "documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
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                    "url": "https://license-manager.ap-east-1.amazonaws.com"
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            "params": {
                "Region": "ap-east-1",
                "UseFIPS": false,
                "UseDualStack": false
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            "expect": {
                "endpoint": {
                    "url": "https://license-manager.ap-northeast-1.amazonaws.com"
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            "UseFIPS": false,
            "UseDualStack": false
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        "expect": {
            "endpoint": {
                "url": "https://license-manager.ap-northeast-2.amazonaws.com"
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        "params": {
            "Region": "ap-northeast-2",
            "UseFIPS": false,
            "UseDualStack": false
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        "documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.ap-northeast-3.amazonaws.com"
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        "params": {
            "Region": "ap-northeast-3",
            "UseFIPS": false,
            "UseDualStack": false
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        },
        "params": {
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            "UseFIPS": false,
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            "Region": "ap-southeast-1",
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          "params": {
            "Region": "ap-southeast-2",
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            "UseDualStack": false
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"documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
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            "endpoint": {
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          "params": {
            "Region": "ap-southeast-3",
            "UseFIPS": false,
            "UseDualStack": false
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          "documentation": "For region ca-central-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ca-central-1.amazonaws.com"
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"params": {
"Region": "ca-central-1",
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"documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
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"endpoint": {
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"Region": "eu-central-1",
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"documentation": "For region eu-north-1 with FIPS
disabled and DualStack disabled",
"expect": {
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"params": {
"Region": "eu-north-1",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
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"params": {
"Region":
"eu-south-1",
"UseFIPS": false,
"UseDualStack": false
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          "documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
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            "UseDualStack": false
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            "UseFIPS": false,

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"params": {
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"params": {
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"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
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"params": {
"Region": "us-east-1",
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"UseDualStack": false
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"params": {
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"UseDualStack": false
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"documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",

"expect": {
"endpoint": {
"url": "https://license-manager.us-east-2.amazonaws.com"
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"params": {
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"UseFIPS": false,
"UseDualStack": false
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"UseDualStack": false
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"UseDualStack": false
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},
{
"documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-west-1.amazonaws.com"
}
},
"params": {

"Region": "us-west-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-west-2 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-west-2.amazonaws.com"
}
},
"params": {
"Region": "us-west-2",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-west-2 with FIPS enabled and DualStack disabled",

"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-west-2.amazonaws.com"
}
},
"params": {
"Region": "us-west-2",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,

"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",

"expect": {
"endpoint": {
"url": "https://license-manager.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
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{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url":
"https://license-manager.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
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"documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-northwest-1",
"UseFIPS": false,
"UseDualStack": false

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},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",

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            "UseFIPS": true,
            "UseDualStack": true
        }
    },
    {
        "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
             }
        },
        "params": {
            "Region": "cn-north-1",
            "UseFIPS": true,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
            }
        },
        "params": {
            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": true
        }
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{
        "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.us-gov-east-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
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"url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
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},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-gov-west-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-west-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation":
"For region us-gov-west-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-west-1",
"UseFIPS": true,
"UseDualStack": false
}
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{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-gov-east-1.api.aws"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true

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            }
        },
        {
            "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.us-gov-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack
disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
                }
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": true,
                 "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
                }
            },
            "params": {
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"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled
but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": true
}
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{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},

{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
}

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                    },

            "params": {
                        "Region": "us-isob-east-1",
                        "UseFIPS": true,
                        "UseDualStack": false
                    }
                },
                {
                    "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
                    "expect": {
                        "error": "DualStack is enabled but this partition does not support DualStack"
                    },
                    "params": {
                        "Region": "us-isob-east-1",
                        "UseFIPS": false,
                        "UseDualStack": true
                    }
                },
                {
                    "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

    "expect": {
                        "endpoint": {
                            "url": "https://example.com"
                        }
                    },
                    "params": {
                        "Region": "us-east-1",
                        "UseFIPS": false,
                        "UseDualStack": false,
                        "Endpoint": "https://example.com"
                    }
                },
                {
                    "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",
                    "expect": {
                        "endpoint": {
                            "url": "https://example.com"
                        }
                    },
                    "params": {
                        "UseFIPS": false,

        "UseDualStack": false,
                        "Endpoint": "https://example.com"
                    }
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                },
                {
                    "documentation": "For custom endpoint with fips enabled and dualstack disabled",
                    "expect": {
                        "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
                    },
                    "params": {
                        "Region": "us-east-1",
                        "UseFIPS": true,
                        "UseDualStack": false,
                        "Endpoint": "https://example.com"
                    }
                },
                {
                    "documentation": "For custom endpoint with fips disabled and dualstack enabled",
                    "expect": {
                        "error":
"Invalid Configuration: Dualstack and custom endpoint are not supported"
                    },
                    "params": {
                        "Region": "us-east-1",
                        "UseFIPS": false,
                        "UseDualStack": true,
                        "Endpoint": "https://example.com"
                    }
                },
                {
                    "documentation": "Missing region",
                    "expect": {
                        "error": "Invalid Configuration: Missing Region"
                    }
                }
            ],
            "version": "1.0"
        }
    }
},
"com.amazonaws.licensemanager#AcceptGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#AcceptGrantRequest"

},
    "output": {
        "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
    },
    "errors": [
        {
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"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"

}
],
"traits": {
"smithy.api#documentation": " Accepts the specified grant. "
}
},
"com.amazonaws.licensemanager#AcceptGrantRequest": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#AcceptGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant

ARN. "
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": " Grant status. "
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": " Grant version. "
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#AccessDeniedException": {
        "type": "structure",
        "members": {
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "aws.protocols#awsQueryError": {

"code": "ServiceAccessDenied",
            "httpResponseCode": 401
          },
          "smithy.api#documentation": " Access to resource denied. ",
          "smithy.api#error": "client",
          "smithy.api#httpError": 401
        }
      },
      "com.amazonaws.licensemanager#ActivationOverrideBehavior": {
        "type": "enum",
        "members": {
          "DISTRIBUTED_GRANTS_ONLY": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
            }
          },
          "ALL_GRANTS_PERMITTED_BY_ISSUER": {

"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
}
}
}
},
"com.amazonaws.licensemanager#AllowedOperation": {

"type": "enum",
"members": {
"CREATE_GRANT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CreateGrant"
}
},
"CHECKOUT_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckoutLicense"
}
},
"CHECKOUT_BORROW_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckoutBorrowLicense"
}
},
"CHECK_IN_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckInLicense"
}
},
"EXTEND_CONSUMPTION_LICENSE":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ExtendConsumptionLicense"
}
},
"LIST_PURCHASED_LICENSES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ListPurchasedLicenses"
}
},

"CREATE_TOKEN": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CreateToken"
}
}
}
},
"com.amazonaws.licensemanager#AllowedOperationList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#AllowedOperation"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max":
7
}
}
},
"com.amazonaws.licensemanager#Arn": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
}
},
"com.amazonaws.licensemanager#ArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
}
},
"com.amazonaws.licensemanager#AuthorizationException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError":

{
"code": "AuthorizationFailure",
"httpResponseCode": 403
},
"smithy.api#documentation": " The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n policy associated with this account. ",
"smithy.api#error": "client",
"smithy.api#httpError": 403
}
},
"com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
"type": "structure",
"members": {
"LastRunTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time that automated discovery last ran. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes automated discovery. "
}
},

"com.amazonaws.licensemanager#Boolean": {
"type": "boolean",
"traits": {
"smithy.api#default": false
}
},
"com.amazonaws.licensemanager#BorrowConfiguration": {
"type": "structure",
"members": {
"AllowEarlyCheckIn": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether early check-ins are allowed. ",
"smithy.api#required": {}
}
},
"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the borrow configuration, in minutes. ",
"smithy.api#required": {}
}
}

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},
        "traits": {
            "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#BoxBoolean": {
        "type": "boolean"
    },
    "com.amazonaws.licensemanager#BoxInteger": {
        "type": "integer"
    },
    "com.amazonaws.licensemanager#BoxLong": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#CheckInLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"

     },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
```

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            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseRequest":
{
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicense":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
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```
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members":
{
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
                    "smithy.api#required": {}
                }
```

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            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
                    "smithy.api#required": {}
                }
            },
            "DigitalSignatureMethod": {
                "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
                "traits": {
                    "smithy.api#documentation": "<p>Digital signature method. The possible
 value is JSON Web Signature (JWS) algorithm PS384.\n        For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>",
                    "smithy.api#required": {}
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation":
 "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
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"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed":
{
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " Allowed license entitlements. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"SignedToken": {
"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout
is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
}
},

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target":
"com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks out the specified license. \n <note>\n If the
account that created the license is the same that is performing the check out, you must\n specify the account

as the beneficiary. \n </note>"
  }
},
"com.amazonaws.licensemanager#CheckoutLicenseRequest": {
  "type": "structure",
  "members": {
    "ProductSKU": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": " Product
 SKU. ",
        "smithy.api#required": {}
      }
    },
    "CheckoutType": {
      "target": "com.amazonaws.licensemanager#CheckoutType",
      "traits": {
        "smithy.api#documentation": " Checkout type. ",
        "smithy.api#required": {}
      }
    },
    "KeyFingerprint": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": " Key fingerprint identifying the license. ",
        "smithy.api#required": {}
      }
    },
    "Entitlements": {
      "target": "com.amazonaws.licensemanager#EntitlementDataList",
      "traits": {
        "smithy.api#documentation": " License entitlements. ",

"smithy.api#required": {}
      }
    },
    "ClientToken": {
      "target": "com.amazonaws.licensemanager#ClientToken",
      "traits": {
        "smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request. ",
        "smithy.api#required": {}
      }
    },
    "Beneficiary": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": " License beneficiary. "

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            }
        },
        "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        }
    },
    "traits": {

   "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
    "type": "structure",
    "members": {
        "CheckoutType": {
            "target": "com.amazonaws.licensemanager#CheckoutType",
            "traits": {
                "smithy.api#documentation": "<p>Checkout type.</p>"
            }
        },
        "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
            }
        },
        "EntitlementsAllowed": {
            "target": "com.amazonaws.licensemanager#EntitlementDataList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
            }
        },
         "SignedToken": {
            "target": "com.amazonaws.licensemanager#SignedToken",
            "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
            }
        },
        "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        },
        "IssuedAt": {
```

"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and
time at which the license checkout expires. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the checkout license. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutType": {
"type": "enum",
"members": {
"PROVISIONAL": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PROVISIONAL"
}
},
"PERPETUAL": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PERPETUAL"
}
}
}
},
"com.amazonaws.licensemanager#ClientRequestToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 36
}
}

```
    },
    "com.amazonaws.licensemanager#ClientToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 2048
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
    "com.amazonaws.licensemanager#ConflictException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ConflictException",
                "httpResponseCode":
 409
            },
            "smithy.api#documentation": "<p>There was a conflict processing the request. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 409
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
                }
            },
            "ConsumedLicenses": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
                }
            }
        },
```

"traits": {
"smithy.api#documentation": " Details about license consumption. "
}
},
"com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
}
},
"com.amazonaws.licensemanager#ConsumptionConfiguration": {
"type": "structure",
"members": {
"RenewType": {
"target": "com.amazonaws.licensemanager#RenewType",
"traits": {
"smithy.api#documentation": " Renewal frequency. "
}
},
"ProvisionalConfiguration": {
"target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"BorrowConfiguration": {
"target": "com.amazonaws.licensemanager#BorrowConfiguration",
"traits": {
"smithy.api#documentation": " Details about a borrow configuration. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a consumption configuration. "
}
},
"com.amazonaws.licensemanager#CreateGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

{
"target":
"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a grant for the specified license. A grant shares the use of license\n entitlements with a specific Amazon Web Services account, an organization, or an\n organizational unit (OU). For more
information, see Granted licenses in License Manager in the License Manager User Guide. "
}
},
"com.amazonaws.licensemanager#CreateGrantRequest": {
"type": "structure",
"members": {
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}

}
},
"LicenseArn": {

"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Principals": {
"target": "com.amazonaws.licensemanager#PrincipalArnList",
"traits": {
"smithy.api#documentation": " The grant principals. You can specify one of the following as an Amazon Resource Name\n (ARN): \n \n \n An Amazon Web Services account, which includes only the account specified. \n \n \n \n \n An organizational unit (OU), which includes all accounts in the OU. \n \n \n \n \n An organization, which will include all accounts across your organization. \n \n ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},

"com.amazonaws.licensemanager#CreateGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},

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            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersion":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
             },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
```

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        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information,
see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",

   "smithy.api#required": {}
                }
            },
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>"
                }
            },
            "AllowedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                 "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status reason.</p>"
```

```
            }
          },
          "SourceVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Current version of the grant.</p>"
            }
          },
          "Options": {
            "target": "com.amazonaws.licensemanager#Options",
            "traits": {
              "smithy.api#documentation": "<p>The options specified for the grant.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#CreateGrantVersionResponse": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>New version of the grant.</p>"
            }
          }
        },
        "traits":
{
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicense": {
        "type": "operation",
```

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    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a license.</p>"
    }
},
"com.amazonaws.licensemanager#CreateLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license configuration.</p>\n        <p>A license configuration is an abstraction of a customer license agreement that can be\n        consumed and enforced by License Manager. Components include specifications for the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n        Dedicated Instance, Dedicated Host, or all of these), license affinity  to host (how long a \n        license must be associated with a host), and the number of licenses purchased and used.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the license configuration.</p>"
                }
            },
            "LicenseCountingType": {
                "target": "com.amazonaws.licensemanager#LicenseCountingType",
                "traits": {
                    "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
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"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows. \n \n \n \n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n <code>licenseAffinityToHost</code> |\n <code>maximumCores</code> | <code>minimumCores</code>\n \n \n \n \n <code>Instances</code> dimension: <code>allowedTenancy</code> | \n <code>maximumCores</code> | <code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n \n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n <code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code>\n \n \n \n \n <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n <code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>. "
}
},

"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the license configuration. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "

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            }
          },
          "ProductInformationList": {
            "target": "com.amazonaws.licensemanager#ProductInformationList",
            "traits": {
              "smithy.api#documentation": "<p>Product information.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse":
{
        "type": "structure",
        "members": {
          "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
           },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {

                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting
from. \n\n        For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            },
            "DestinationLicenseContext":
 {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting to.
For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
```

```
    }
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
    "type": "structure",
    "members": {
        "LicenseConversionTaskId": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

   "traits": {
                "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
         },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
```

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a report generator. "
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"ReportGeneratorName":
{
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types an be generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}

}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " Defines the type of license configuration the report generator tracks. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",

"traits": {
"smithy.api#documentation": " Unique,
case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the new report
generator. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseRequest": {
"type": "structure",
"members": {
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}

```
            },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product
name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "Issuer": {
                "target": "com.amazonaws.licensemanager#Issuer",
                "traits": {
                    "smithy.api#documentation": "<p>License issuer.</p>",
                    "smithy.api#required": {}
                }
            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Home Region for the license.</p>",
                    "smithy.api#required": {}

    }
            },
            "Validity": {
                "target": "com.amazonaws.licensemanager#DatetimeRange",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",
                    "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},

```
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
    }
```

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    },
    "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target":
"com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "LicenseName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License name.</p>",
            "smithy.api#required": {}
          }
        },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product name.</p>",
            "smithy.api#required": {}
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#Issuer",
          "traits":
{
            "smithy.api#documentation": "<p>License issuer.</p>",
            "smithy.api#required": {}
          }
        },
        "HomeRegion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Home Region of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "Validity": {
          "target": "com.amazonaws.licensemanager#DatetimeRange",
          "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
            "smithy.api#required": {}
          }
```

```
            },
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license.</p>"
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",
                    "smithy.api#required": {}
                }
            },
            "ConsumptionConfiguration": {
                "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n         running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n         usage.</p>",
                    "smithy.api#required": {}
                }
            },

   "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>",
                    "smithy.api#required": {}
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>"
                }
            }
        },
        "traits": {
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"smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": " License ARN. "
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " New version of the license. "
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": " License status. "
                }
            }
        },
        "traits": {
            "smithy.api#output":
{}
        }
    },
    "com.amazonaws.licensemanager#CreateToken": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateTokenResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },

{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},

{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a long-lived token. \n A refresh token is a JWT token used to get an access token. With an access token,\n you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n call License Manager to manage the specified license. "
}
},
"com.amazonaws.licensemanager#CreateTokenRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits":
{
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n JWT token. ",
"smithy.api#required": {}
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n License Manager does not check whether the roles are in use. "
}
},
"ExpirationInDays": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Token expiration, in days, counted from token creation. The default is 365 days. "
}

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            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Data specified by the caller to be included in the JWT token. The
data is mapped\n          to the amr claim of the JWT token.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Idempotency token, valid for 10 minutes.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateTokenResponse": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",

                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
            "TokenType": {
                "target": "com.amazonaws.licensemanager#TokenType",
                "traits": {
                    "smithy.api#documentation": "<p>Token type.</p>"
                }
            },
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DateTime": {
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    "type": "timestamp"
  },
  "com.amazonaws.licensemanager#DatetimeRange": {
    "type": "structure",
    "members": {
      "Begin": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
          "smithy.api#documentation": "<p>Start of the time range.</p>",
          "smithy.api#required": {}
        }
      },
      "End": {
        "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
          "smithy.api#documentation": "<p>End of the time range.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
    }
  },
  "com.amazonaws.licensemanager#DeleteGrant": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
     },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
      },
      {
```

"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes
the specified grant. "
}
},
"com.amazonaws.licensemanager#DeleteGrantRequest": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " The Status reason for the delete request. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the
grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}

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            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
```

"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license configuration. \n You cannot delete a license configuration that is in use. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
"type": "structure",
"members":
{
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

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            "smithy.api#documentation": "<p>ID of the license configuration.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
       },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
```

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            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified report generator.</p>\n        <p>This action deletes the report generator, which stops it from generating future reports.\n        The action cannot be reversed. It has no effect on the previous reports from this generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to be deleted.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {

 "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>",
                    "smithy.api#required":
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{}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseResponse": {
"type": "structure",
"members": {
"Status": {
"target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"DeletionDate": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date when the license is deleted. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"

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            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },

    {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}

      }
    },
    "com.amazonaws.licensemanager#DigitalSignatureMethod": {
        "type": "enum",
        "members": {
            "JWT_PS384": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "JWT_PS384"
                }
```

```
            }
        }
    },
    "com.amazonaws.licensemanager#Entitlement": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement name.</p>",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement resource. Use only
if the unit is None.</p>"
                }
            },
            "MaxCount": {
                "target": "com.amazonaws.licensemanager#Long",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
                }
            },
            "Overage": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether overages are allowed.</p>"
                }
            },
            "Unit": {
                "target": "com.amazonaws.licensemanager#EntitlementUnit",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement unit.</p>",
                    "smithy.api#required": {}
                }
            },
            "AllowCheckIn": {
                "target":
"com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether check-ins are allowed.</p>"
                }
            }
        },
        "traits": {
```

"smithy.api#documentation": " Describes a resource entitled for use with a license. "
}
},
"com.amazonaws.licensemanager#EntitlementData": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement
data value. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {
"smithy.api#documentation": " Entitlement data unit. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Data associated with an entitlement resource. "
}
},
"com.amazonaws.licensemanager#EntitlementDataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#EntitlementData"
}
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
"type": "enum",
"members": {
"COUNT": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Count"
}
},

"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"SECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Seconds"
}
},
"MICROSECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Microseconds"
}
},
"MILLISECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Milliseconds"
}
},
"BYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes"
}
},
"KILOBYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes"
}
},
"MEGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes"
}
},
"GIGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes"
}
},

"TERABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"

}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"

```
            }
        },
        "KILOBYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes/Second"
            }
        },
        "MEGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes/Second"
            }
        },
        "GIGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Gigabytes/Second"
            }
        },
        "TERABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabytes/Second"
            }
        },
        "BITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bits/Second"
            }
        },
        "KILOBITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobits/Second"
            }
        },
        "MEGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue":
"Megabits/Second"
            }
        },
        "GIGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
```

"smithy.api#enumValue": "Gigabits/Second"
}
},
"TERABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits/Second"
}
},
"COUNT_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count/Second"
}
}
}
},
"com.amazonaws.licensemanager#EntitlementList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Entitlement"
}
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The entitlement is not allowed. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#EntitlementUnit": {
"type": "enum",
"members": {
"COUNT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count"
}
},
"NONE": {
"target": "smithy.api#Unit",

```
            "traits": {
                "smithy.api#enumValue": "None"
            }
        },
        "SECONDS":
{
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Seconds"
            }
        },
        "MICROSECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Microseconds"
            }
        },
        "MILLISECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Milliseconds"
            }
        },
        "BYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bytes"
            }
        },
        "KILOBYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes"
             }
        },
        "MEGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes"
            }
        },
        "GIGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabytes"
            }
        },
        "TERABYTES": {
```

"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"
}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target":
"smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"
}

```
            },
            "KILOBYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Kilobytes/Second"
                }
            },
            "MEGABYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Megabytes/Second"
                }
            },
            "GIGABYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Gigabytes/Second"
                }
            },
            "TERABYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {

"smithy.api#enumValue": "Terabytes/Second"
                }
            },
            "BITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Bits/Second"
                }
            },
            "KILOBITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Kilobits/Second"
                }
            },
            "MEGABITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Megabits/Second"
                }
            },
            "GIGABITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Gigabits/Second"
```

```
            }
        },

    "TERABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits/Second"
            }
        },
        "COUNT_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Count/Second"
            }
        }
    }
},
"com.amazonaws.licensemanager#EntitlementUsage": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                "smithy.api#required": {}
            }
        },
        "ConsumedValue": {
            "target": "com.amazonaws.licensemanager#String",

        "traits": {
                "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxCount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                "smithy.api#required": {}
            }
        }
```

```
        },
        "traits": {
            "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementUsageList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
```

"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",
"smithy.api#required": {}

}
},
"DryRun": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#default": false,
"smithy.api#documentation": " Checks whether you have the required permissions for the action, without actually making the request. Provides an error response if you do not have the required permissions. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},

"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license consumption expires. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#FailedDependencyException": {
"type": "structure",
"members": {
"Message": {

"target": "com.amazonaws.licensemanager#Message"
},
"ErrorCode": {
"target": "com.amazonaws.licensemanager#String"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FailedDependency",
"httpResponseCode": 424
},
"smithy.api#documentation":
" A dependency required to run the API is missing. ",
"smithy.api#error": "client",
"smithy.api#httpError": 424
}
},
"com.amazonaws.licensemanager#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#FilterName",
"traits": {
"smithy.api#documentation": " Name of the filter. Filter names are case-sensitive. "
}
},
"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " The value of the filter, which is case-sensitive. You can only
specify one value for the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter
name and value pair that is used to return more specific results from a\n describe operation. Filters can be used
to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {

```
        "aws.protocols#awsQueryError": {
            "code": "FilterLimitExceeded",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#FilterList": {
    "type": "list",
     "member": {
        "target": "com.amazonaws.licensemanager#Filter"
    }
},
"com.amazonaws.licensemanager#FilterName": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#FilterValue",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#Filters": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Filter",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#GetAccessToken": {
    "type": "operation",
    "input": {
         "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
    },
    "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access
 tokens\n          are valid for one hour.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenRequest": {
        "type": "structure",
        "members": {
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT
token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenResponse":
 {
        "type": "structure",
        "members": {
```

```
        "AccessToken": {
            "target": "com.amazonaws.licensemanager#TokenString",
            "traits": {
                "smithy.api#documentation": "<p>Temporary access token.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"

    },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
```

```
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
                "smithy.api#documentation": "<p>Grant details.</p>"
            }
        }
    },
    "traits": {

"smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
```

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"

},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license configuration. "

```
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits":
 {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            },
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>"
                 }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the license configuration.</p>"
                }
            },
            "LicenseCountingType": {
                "target": "com.amazonaws.licensemanager#LicenseCountingType",
```

"traits": {
"smithy.api#documentation": " Dimension for which the licenses are counted. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",

"traits": {
"smithy.api#documentation": " Number of available licenses. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Sets the number of available licenses as a hard limit. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses assigned to resources. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License configuration status. "
}

},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},

"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When
true, disassociates a resource when software is uninstalled. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified license type conversion task. "
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. "

```
            }
        },
        "SourceLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information
about the license type converted from.</p>"
            }
        },
        "DestinationLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license type converted to.</p>"
            }
        },
        "StatusMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
            "traits": {
                "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
            }
        },

  "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
            }
        },
        "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
            }
        },
        "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
            }
        }
    },
```

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGenerator":
{
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified report generator. "
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. ",
"smithy.api#required":
{}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"ReportGenerator": {
"target": "com.amazonaws.licensemanager#ReportGenerator",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic reports about your license configurations. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#input": {}
}

```
    },
    "com.amazonaws.licensemanager#GetLicenseResponse": {
        "type": "structure",
        "members": {
            "License": {
                "target": "com.amazonaws.licensemanager#License",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },

"com.amazonaws.licensemanager#GetLicenseUsage": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

"target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
        }
```

```
    },
    "com.amazonaws.licensemanager#GetLicenseUsageRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageResponse": {
      "type": "structure",
      "members": {
        "LicenseUsage": {
          "target":
"com.amazonaws.licensemanager#LicenseUsage",
          "traits": {
            "smithy.api#documentation": "<p>License usage details.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
discovery data,\n        and so on.</p>"

  }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>SNS topic configured to receive notifications from License
Manager.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether Organizations is integrated with License
Manager for\n        cross-account discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether cross-account discovery is enabled.</p>"
                }
```

```
        },
            "LicenseManagerResourceShareArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
Manager management account \n        provides member accounts with access to this share.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Grant": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {

 "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ParentArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Parent ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>License ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "GranteePrincipalArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
```

"smithy.api#documentation": " The grantee principal ARN. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. ",
"smithy.api#required": {}
}
},
"GrantedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Granted operations. ",
"smithy.api#required": {}
}
},
"Options": {
"target": "com.amazonaws.licensemanager#Options",
"traits": {
"smithy.api#documentation": " The options specified for the grant. "
}
}
},
"traits": {
"smithy.api#documentation":

" Describes a grant. "
}
},
"com.amazonaws.licensemanager#GrantList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Grant"
}
},
"com.amazonaws.licensemanager#GrantStatus": {
"type": "enum",
"members": {
"PENDING_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_WORKFLOW"
}
},
"PENDING_ACCEPT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_ACCEPT"
}
},
"REJECTED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REJECTED"

}
},
"ACTIVE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ACTIVE"
}
},
"FAILED_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "FAILED_WORKFLOW"
}
},
"DELETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DELETED"
}

```
            },
            "PENDING_DELETE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_DELETE"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                "traits":
{
                    "smithy.api#enumValue": "DISABLED"
                }
            },
            "WORKFLOW_COMPLETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "WORKFLOW_COMPLETED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GrantedLicense": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>"
                }

  },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product name.</p>"
                }
            },
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>"
```

```
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>Granted license issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the granted license.</p>"

         }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>Granted license status.</p>"
            }
        },
        "Validity": {
            "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {
                "smithy.api#documentation": "<p>Date and time range during which the granted license is valid, in
ISO8601-UTC format.</p>"
            }
        },
        "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Granted license beneficiary.</p>"
            }
        },
        "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
             "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>"
            }
        },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
            }
        },
        "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
```

"traits": {
"smithy.api#documentation": " Granted license metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Creation time of the granted license. "

}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Version of the granted license. "
}
},
"ReceivedMetadata": {
"target": "com.amazonaws.licensemanager#ReceivedMetadata",
"traits": {
"smithy.api#documentation": " Granted license received metadata. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a license that is granted to a grantee. "
}
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#GrantedLicense"
}
},
"com.amazonaws.licensemanager#ISO8601DateTime":
{
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
}
},
"com.amazonaws.licensemanager#Integer": {
"type": "integer"

```
    },
    "com.amazonaws.licensemanager#InvalidParameterValueException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidParameterValueProvided",
                "httpResponseCode": 400
            },
            "smithy.api#documentation":
 "<p>One or more parameter values are not valid.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InvalidResourceStateException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidResourceState",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n        <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },

    "com.amazonaws.licensemanager#InventoryFilter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the filter.</p>",
                    "smithy.api#required": {}
                }
```

```
        },
        "Condition": {
            "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
            "traits": {
                "smithy.api#documentation": "<p>Condition of the filter.</p>",
                "smithy.api#required": {}
            }
        },
        "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Value of the filter.</p>"
            }
        }

    },
    "traits": {
        "smithy.api#documentation": "<p>An inventory filter.</p>"
    }
  },
  "com.amazonaws.licensemanager#InventoryFilterCondition": {
    "type": "enum",
    "members": {
        "EQUALS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EQUALS"
            }
        },
        "NOT_EQUALS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "NOT_EQUALS"
            }
        },
        "BEGINS_WITH": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "BEGINS_WITH"
            }
        },
        "CONTAINS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "CONTAINS"
            }
        }
    }
```

```
    },
    "com.amazonaws.licensemanager#InventoryFilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#InventoryFilter"
        }
    },
    "com.amazonaws.licensemanager#Issuer": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>",
                    "smithy.api#required": {}
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage
 of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about the issuer of a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#IssuerDetails": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>"
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
                }
            },
            "KeyFingerprint": {
```

```
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
    }
},
"com.amazonaws.licensemanager#License": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

       "smithy.api#documentation": "<p>License name.</p>"
            }
        },
        "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product name.</p>"
            }
        },
        "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product SKU.</p>"
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>License issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Home Region of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"Entitlements": {

"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " License metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License creation time. "
}
},

```
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
    "type": "structure",
    "members": {
        "LicenseConfigurationId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
            }
        },
        "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
        },
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the license configuration.</p>"
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
                "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
             }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules.</p>"
```

```
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Number of available licenses as a hard limit.</p>"
            }
        },
        "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
             "traits": {
                "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses consumed. </p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Status of the license configuration.</p>"
            }
        },
        "OwnerAccountId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Account ID of the license configuration's owner.</p>"

        }
        },
        "ConsumedLicenseSummaryList": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Summaries for licenses consumed by various resources.</p>"
            }
        },
        "ManagedResourceSummaryList": {
            "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
```

"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {

"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource consuming licenses. "
}

```
            },
            "AssociationTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {

    "smithy.api#documentation": "<p>Time when the license configuration was associated with the resource.</p>"
                }
            },
            "AmiAssociationScope": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes an association with a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
        "type": "enum",
        "members":
{
            "AVAILABLE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "AVAILABLE"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DISABLED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
        "type": "structure",
        "members": {
            "ResourceArn": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits":
{
"smithy.api#documentation": " Type of resource. "
}
},
"ResourceStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was initially associated with the resource. "
}
},

"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"

}
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfiguration"
}
},
"com.amazonaws.licensemanager#LicenseConversionContext": {

"type": "structure",
"members": {
"UsageOperation": {
"target": "com.amazonaws.licensemanager#UsageOperation",
"traits": {
"smithy.api#documentation": " The Usage operation value that corresponds to the license type you are converting your resource from. For more information about which platforms correspond to which usage operation values see Sample data: usage operation by platform\n \n "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTask": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {

"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource associated with the license type\n conversion task. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted from. "

```
            }
        },
        "DestinationLicenseContext": {
            "target":
 "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license type this conversion task converted
to.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
            "traits": {
                "smithy.api#documentation": "<p>The status of the conversion task.</p>"
            }
        },
        "StatusMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
        },
        "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation":
 "<p>The time the conversion task was started at.</p>"
            }
        },
        "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>The time the usage operation value of the resource was
changed.</p>"
            }
        },
        "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseConversionTaskId": {
```

```
        "type": "string",
        "traits": {

       "smithy.api#length": {
            "min": 0,
            "max": 50
          },
          "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
        "type": "enum",
        "members": {
          "IN_PROGRESS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "IN_PROGRESS"
            }
          },
          "SUCCEEDED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "SUCCEEDED"
            }
          },
          "FAILED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "FAILED"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTasks":
  {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#LicenseConversionTask"
        }
      },
      "com.amazonaws.licensemanager#LicenseCountingType": {
        "type": "enum",
        "members": {
          "VCPU": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "vCPU"
            }
```

```
        },
        "INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Instance"
            }
        },
        "CORE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Core"
            }
        },
        "SOCKET": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Socket"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {
    "type": "enum",
    "members": {
        "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {

    "type": "structure",
    "members": {
```

"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Resource type. "
}
},
"ErrorMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Error message. "
}
},
"FailureTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " Failure time. "
}
},
"OperationName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the operation. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource. "
}
},
"OperationRequestedBy": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The requester is \"License Manager Automated Discovery\". "
}
},
"MetadataList": {

"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {

"smithy.api#documentation": " Reserved. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the failure of a license operation. "
}
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailure"
}
},
"com.amazonaws.licensemanager#LicenseSpecification": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",

"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseSpecification"
}
},
"com.amazonaws.licensemanager#LicenseStatus": {
"type": "enum",
"members": {
"AVAILABLE": {

"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "AVAILABLE"
}
},
"PENDING_AVAILABLE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_AVAILABLE"
}
},
"DEACTIVATED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DEACTIVATED"
}
},
"SUSPENDED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SUSPENDED"
}
},
"EXPIRED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "EXPIRED"
}
},

"PENDING_DELETE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_DELETE"
}
},
"DELETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DELETED"
}
}
}
},
"com.amazonaws.licensemanager#LicenseUsage": {
"type": "structure",
"members": {

"EntitlementUsages": {
"target": "com.amazonaws.licensemanager#EntitlementUsageList",
"traits": {
"smithy.api#documentation": " License entitlement usages. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the entitlement usage associated with a license. "

}
},
"com.amazonaws.licensemanager#LicenseUsageException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "LicenseUsageFailure",
"httpResponseCode": 412
},
"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"

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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the resource associations for the
 specified license configuration.</p>\n        <p>Resource associations need not consume licenses from a license
configuration. \n        For example, an AMI or a stopped instance might not consume a license (depending on \n
the license rules).</p>"
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results
 to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
        "type": "structure",
```

"members": {
"LicenseConfigurationAssociations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license configuration. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants distributed for the specified license. "
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranteePrincipalARN</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",

"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",

"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configuration operations that failed. "
}

```
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
      "type": "structure",
      "members": {
        "LicenseConfigurationArn": {
          "target": "com.amazonaws.licensemanager#String",
           "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
            "smithy.api#required": {}
          }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#BoxInteger",
          "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse":
{
      "type": "structure",
      "members": {
        "LicenseOperationFailureList": {
          "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
          "traits": {
            "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
```

```
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurations": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },

    "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations
 for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
```

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next
set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical
operators\n are supported: \n \n \n \n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n
\n <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>. \n
\n \n \n <code>usagelimitExceeded</code> - A Boolean value that
indicates whether the available licenses have been exceeded. \n Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
"type": "structure",
"members": {
"LicenseConfigurations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurations",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasks": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license type conversion tasks for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
"type": "structure",
"members": {
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}

```
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>\n        Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n      </p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTasks": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configuration tasks for your
 account.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
```

"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the report generators for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest":
{
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported:
\n \n \n \n <code>LicenseConfigurationArn</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits":
{
"smithy.api#documentation": " Maximum number of results to return in a single call. "

```
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
            "ReportGenerators": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorList",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }

        }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
```

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Describes the license configurations for the specified resource. "
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a resource that has an associated license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {
"LicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " License configurations associated with a resource. "
}
},

```
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
```

```
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
                "smithy.api#documentation": "<p>License details.</p>"
            }
          },

"NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenses": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicensesRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicensesResponse"
        },
```

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses for your account. "
}
},
"com.amazonaws.licensemanager#ListLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>Status</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token

for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#LicenseList",
"traits": {
"smithy.api#documentation": " License details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists grants that are received. Received grants are grants created while specifying the\n recipient as this Amazon Web Services account, your organization, or an organizational unit\n (OU) to which this member account belongs. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},

```
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants received for all accounts in the organization.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the received license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n
    <ul>\n        <li>\n            <p>\n                <code>ParentArn</code>\n            </p>\n        </li>\n
<li>\n            <p>\n                <code>GranteePrincipalArn</code>\n            </p>\n        </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
```

"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Lists the grants the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranterAccountId</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},

```
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
    "type": "structure",
    "members": {
        "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
             "traits": {
                "smithy.api#documentation": "<p>Received grant details.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
         },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists received licenses.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {

    "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
```

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses received for all accounts in the organization. "
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#GrantedLicenseList",
"traits": {
"smithy.api#documentation": " Lists the licenses the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>IssuerName</code>\n \n \n \n \n <code>Beneficiary</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
"type": "structure",

```
    "members": {
      "Licenses": {
        "target": "com.amazonaws.licensemanager#GrantedLicenseList",
        "traits": {
          "smithy.api#documentation": "<p>Received license details.</p>"
        }
      },

      "NextToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#ListResourceInventory": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#FailedDependencyException"
      },
      {
        "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
```

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                 "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#InventoryFilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n  are supported:</p>\n  <ul>\n  <li>\n  <p>\n  <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource.\n  Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n
  </li>\n  <li>\n  <p>\n  <code>application_name</code> - The name of the application. \n  Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n
  </li>\n  <li>\n  <p>\n  <code>license_included</code> - The type of license included. \n
  Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n  Possible values are <code>sql-server-enterprise</code> | \n  <code>sql-server-standard</code> | \n  <code>sql-server-web</code> |  \n  <code>windows-server-datacenter</code>.</p>\n  </li>\n  <li>\n
  <p>\n  <code>platform</code> - The platform of the resource.\n  Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n  </li>\n  <li>\n  <p>\n
  <code>resource_id</code> - The ID of the resource. \n  Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n  </li>\n  <li>\n  <p>\n
  <code>tag:<key></code> - The key/value combination of a tag assigned \n  to the resource. Logical operators are <code>EQUALS</code> (single account) or\n  <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account).</p>\n  </li>\n  </ul>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
```

```
    "com.amazonaws.licensemanager#ListResourceInventoryResponse": {
      "type": "structure",
      "members": {
        "ResourceInventoryList": {
          "target": "com.amazonaws.licensemanager#ResourceInventoryList",
          "traits": {
            "smithy.api#documentation": "<p>Information
about the resources.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#ListTagsForResource": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Lists the tags for the specified license configuration.</p>"
```

```
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the tags.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors":
[
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
            "TokenIds": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {

                  "smithy.api#documentation": "<p>Token IDs.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
    <ul>\n        <li>\n            <p>\n                <code>LicenseArns</code>\n            </p>\n        </li>\n
</ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation":
 "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
```

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            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokensResponse": {
        "type": "structure",
        "members": {
            "Tokens": {
                "target": "com.amazonaws.licensemanager#TokenList",
                "traits": {
                    "smithy.api#documentation": "<p>Received token details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying license\n        consumption details by resource at a selected point in time. Use this action to audit the\n        current license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>resourceArn</code> - The ARN of the license configuration resource.\n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>resourceAccount</code> - The ID of the account that owns the resource. \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
                }
            }
```

```
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
        "type": "structure",
        "members": {

"LicenseConfigurationUsageList": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Location": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#Long": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#ManagedResourceSummary": {
        "type": "structure",
        "members": {
            "ResourceType":
{
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
                }
            },
            "AssociationCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
                }
            }
```

```
    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {

"type": "integer",
    "traits": {
        "smithy.api#range": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The key name.</p>"
            }
        },

"Value": {
            "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " The value. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes key/value pairs. "
}
},
"com.amazonaws.licensemanager#MetadataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Metadata"
}
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#Options": {
"type": "structure",
"members": {
"ActivationOverrideBehavior": {
"target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
"traits": {
"smithy.api#documentation": " An activation option for your grant that determines the behavior of activating a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter. \n \n \n As a license administrator, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant. \n \n \n As a grantor, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your organization. \n \n \n As a grantee, if the grantor creating the distributed grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n are activating the grant. \n \n \n <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n Use this value to activate a grant without replacing any member accounts\n active grants for the same product. \n </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n Use this value to activate a

grant and disable other active grants in any\n member accounts
for the same product. This action will also replace their\n previously activated grants with this activated grant. \n </dd>\n </dl>"
}
}
},
"traits": {
"smithy.api#documentation": " The options you can specify when you create a new version of a grant, such as activation\n override behavior. For more information, see Granted licenses in License Manager in the License Manager User Guide. "
}
},
"com.amazonaws.licensemanager#OrganizationConfiguration": {
"type": "structure",
"members": {
"EnableIntegration": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#default": false,
"smithy.api#documentation": " Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n <code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n \n ",
"smithy.api#required": {}
}
}
},

```
    "traits": {
        "smithy.api#documentation": "<p>Describes product information for a license configuration.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
    "type": "structure",
    "members": {
        "ProductInformationFilterName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Filter name.</p>",
                "smithy.api#required": {}
            }
        },
        "ProductInformationFilterValue": {
            "target": "com.amazonaws.licensemanager#StringList",

      "traits": {
                "smithy.api#documentation": "<p>Filter value.</p>"
            }
        },
        "ProductInformationFilterComparator": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Logical operator.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes product information filters.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformationFilter"
    }
},
"com.amazonaws.licensemanager#ProductInformationList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformation"
     }
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
    "type": "structure",
    "members": {
```

"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the provisional configuration, in minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"com.amazonaws.licensemanager#RateLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "RateLimitExceeded",
"httpResponseCode": 429
},
"smithy.api#documentation": " Too many requests have been submitted. Try again after a brief wait. ",
"smithy.api#error": "client",
"smithy.api#httpError": 429
}
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
"type": "structure",
"members": {
"ReceivedStatus": {
"target": "com.amazonaws.licensemanager#ReceivedStatus",
"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Received status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",

"traits": {
"smithy.api#documentation": " Allowed operations. "
}
}
},
"traits": {
"smithy.api#documentation": " Metadata associated with received licenses and grants. "
}
},
"com.amazonaws.licensemanager#ReceivedStatus": {
"type": "enum",
"members": {
"PENDING_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_WORKFLOW"
}
},
"PENDING_ACCEPT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue":
"PENDING_ACCEPT"
}
},
"REJECTED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REJECTED"
}
},
"ACTIVE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ACTIVE"
}
},
"FAILED_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "FAILED_WORKFLOW"
}
},
"DELETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DELETED"
}

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        },
        "DISABLED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DISABLED"
            }
        },
        "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#RedirectException": {
    "type": "structure",
    "members": {
        "Location": {
            "target": "com.amazonaws.licensemanager#Location",
            "traits": {
                "smithy.api#httpHeader": "Location"
            }
        },
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 308
    }
},
"com.amazonaws.licensemanager#RejectGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#RejectGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#RejectGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}

  }
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
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"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#RenewType":
{
"type": "enum",
"members": {
"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"WEEKLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Weekly"
}
},
"MONTHLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Monthly"
}
}
}
},
"com.amazonaws.licensemanager#ReportContext": {
"type": "structure",
"members": {
"licenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details of the license configuration that this generator reports on. "
}
},
"com.amazonaws.licensemanager#ReportFrequency": {
"type": "structure",
"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "
}
},
"period": {
"target": "com.amazonaws.licensemanager#ReportFrequencyType",

"traits": {
"smithy.api#documentation": " Time period between each report. The period can be daily, weekly, or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"com.amazonaws.licensemanager#ReportFrequencyType": {
"type": "enum",
"members": {
"DAY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DAY"
}
},
"WEEK": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "WEEK"
}
},

"MONTH": {
"target": "smithy.api#Unit",
"traits":
{
"smithy.api#enumValue": "MONTH"
}
}
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the report generator. "
}
},
"ReportType": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports that are generated. "
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " License
configuration type for this generator. "
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. "
}
},
"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}

},
"LastRunFailureReason":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Failure message for the last report generation attempt. "
}
},
"LastReportGenerationTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the last report was generated at. "
}
},
"ReportCreatorAccount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Web Services account ID used to create the report generator. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the report was created. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags associated with the report generator. "
}

}
},
"traits": {
"smithy.api#documentation": " Describe the details of a report generator. "
}
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportGenerator"
}
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
}
}
},
"com.amazonaws.licensemanager#ReportType": {
"type": "enum",
"members": {
"LICENSE_CONFIGURATION_SUMMARY_REPORT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "LicenseConfigurationSummaryReport"
}

},
"LICENSE_CONFIGURATION_USAGE_REPORT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "LicenseConfigurationUsageReport"
}
}
}
},
"com.amazonaws.licensemanager#ReportTypeList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportType"
}
},
"com.amazonaws.licensemanager#ResourceInventory": {
"type": "structure",
"members": {

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            "ResourceId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits":
{
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "Platform": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform of the resource.</p>"
                }
            },
            "PlatformVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
                }
            },
            "ResourceOwningAccountId":
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ResourceInventoryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ResourceInventory"
        }
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},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "ResourceLimitExceeded",

         "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>Your resource limits have been exceeded.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "InvalidResource.NotFound",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The resource cannot be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceType": {
    "type": "enum",
     "members": {
        "EC2_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_INSTANCE"
            }
        },
        "EC2_HOST": {
            "target": "smithy.api#Unit",
            "traits": {
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"smithy.api#enumValue": "EC2_HOST"
}
},
"EC2_AMI": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "EC2_AMI"
}
},
"RDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "RDS"
}
},
"SYSTEMS_MANAGER_MANAGED_INSTANCE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
}
}
}
},
"com.amazonaws.licensemanager#S3Location": {
"type": "structure",
"members": {
"bucket": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the S3 bucket reports are published to. "
}
},
"keyPrefix": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Prefix of the S3 bucket reports are published to. "
}
}
},
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
"type": "structure",
"members": {
"Message": {

"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InternalError",
"httpResponseCode": 500
},
"smithy.api#documentation": " The server experienced an internal error. Try again. ",
"smithy.api#error": "server",
"smithy.api#httpError": 500
}
},
"com.amazonaws.licensemanager#SignedToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 4096
}
}
},
"com.amazonaws.licensemanager#StatusReasonMessage": {
"type": "string",
"traits":
{
"smithy.api#length": {
"min": 0,
"max": 400
},
"smithy.api#pattern": "^[\\s\\S]+$"
}
},
"com.amazonaws.licensemanager#String": {
"type": "string"
},
"com.amazonaws.licensemanager#StringList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#String"
}
},
"com.amazonaws.licensemanager#Tag": {
"type": "structure",
"members": {
"Key": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Tag key. "

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            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation":
"<p>Tag value.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#String"
        }
      },
      "com.amazonaws.licensemanager#TagList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#Tag"
        }
      },
      "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
          {
            "target":
"com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
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            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits":
 {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>One or more tags.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
```

"TokenType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Type of token generated. The supported value is <code>REFRESH_TOKEN</code>. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"ExpirationTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Token expiration time, in ISO8601-UTC format. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller. "
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the roles included in the token. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. "
}
}
},
"traits": {

"smithy.api#documentation": " Describes a token. "
}
},
"com.amazonaws.licensemanager#TokenList": {
"type": "list",

"member": {
"target": "com.amazonaws.licensemanager#TokenData"
}
},
"com.amazonaws.licensemanager#TokenString": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 4096
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#TokenType": {
"type": "enum",
"members": {
"REFRESH_TOKEN": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REFRESH_TOKEN"
}
}
}
},
"com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException":
{
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The digital signature method is unsupported. Try your request
again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#UntagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UntagResourceResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Removes the specified tags from the specified license configuration. "
}
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",
"traits": {
"smithy.api#documentation": " Keys identifying the tags to remove. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
"type": "structure",
"members": {},

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Modifies the attributes of an existing license configuration. "
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},

"LicenseConfigurationStatus": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
"traits": {
"smithy.api#documentation": " New status of the license configuration. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " New license rule. The only rule that you can add after you create a license\n configuration is licenseAffinityToHost. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " New number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",

"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
},
"traits":
{
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},

```
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates a report generator.</p>\n        <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to update.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportGeneratorName": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>",
                    "smithy.api#required": {}
                }
            },
            "Type": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports to generate. The following report types are supported:</p>\n        <ul>\n            <li>\n                <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p>\n            </li>\n            <li>\n                <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n            </li>\n        </ul>",
                    "smithy.api#required": {}
                }
            },
            "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
                    "smithy.api#documentation": "<p>The report context.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportFrequency": {
                "target": "com.amazonaws.licensemanager#ReportFrequency",
```

"traits":
{
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },

            {
                "target": "com.amazonaws.licensemanager#InvalidResourceStateException"
            },
            {
                "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p>\n        <p>You can update the license specifications of AMIs, instances, and
hosts.\n        You cannot update the license specifications for launch templates and CloudFormation templates, \n
  as they send license configurations to the operation that creates the resource.</p>"
        }
    },

    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "AddLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
                }
            },
            "RemoveLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation":
 "<p>ARNs of the license configurations to remove.</p>"
                }
```

```
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {},
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
    }
},
"com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
    "type": "structure",
    "members": {
        "S3BucketArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon S3 bucket where the License
Manager information is stored. "
}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Enables integration with Organizations for cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Activates cross-account discovery. "

}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UsageOperation": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
}
}
},
"com.amazonaws.licensemanager#ValidationException": {

```
            "type": "structure",
            "members": {
                "Message": {
                    "target": "com.amazonaws.licensemanager#Message"
                }
            },
            "traits": {
                "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",

        "smithy.api#error": "client",
                "smithy.api#httpError": 400
            }
        }
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {
```

```
 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version
 of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack,
 options); err != nil {
  return err
```

```
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if
 err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
```

```
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
```

1.3935 x-exp 0.0.0-20240325151524-a685a6edb6d8

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1.3936 httprc 1.0.6

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1.3937 x-sync 0.10.0

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1.3938 protobuf-go 1.36.0

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1.3939 idna 15.1.0

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1.3940 validator 10.11.2

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1.3941 json 0.0.0-20211020170558-c049b76a60c6

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1.3942 blackmagic 1.0.1

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1.3943 kube-openapi 0.0.0-20211115234752-e816edb12b65

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
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```

```
package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
 license := License{Name: "the name", URL: "the url"}
 const licenseJSON = `{"name":"the name","url":"the url"}`
 const licenseYAML = "name: the name\nurl: the url\n"

 assertSerializeJSON(t, license, licenseJSON)
 assertParsesJSON(t, licenseJSON, license)
}
```

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1.3944 kubernetes-utils 0.0.0-20211116205334-6203023598ed

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localtime.go, localtime_test.go:

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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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1.3956 sys-signal 0.7.1

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procfs provides functions to retrieve system, kernel and process
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github.com/pelletier/go-toml:

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localtime.go, localtime_test.go:

Originals:
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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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Protocol Buffers for Go with Gadgets

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https://github.com/golang/protobuf

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1.3964 stargz-snapshotter-estargz 0.15.1

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1.3965 go-runc 1.0.0

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1.3966 google-cloud-go-longrunning 0.5.4

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package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get              []gax.CallOption
 TestIamPermissions []gax.CallOption
```

```
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
 return &LicenseCodesCallOptions{
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient
 interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.
```

```
// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient)
 Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode,
 error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client
```

```
 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions
}

// NewLicenseCodesRESTClient
 creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{"x-goog-api-client", gax.XGoogHeader(kv...)}
}
```

```
// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return a specified license code. License codes are
 mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for
use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm
 := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers
```

```
  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners
 who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())
```

```
 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
```

```
 return resp, nil
}
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 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete          []gax.CallOption
```

```
 Get              []gax.CallOption
 GetIamPolicy       []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy       []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
[]gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
```

```
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  SetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000
 * time.Millisecond),
  },
 }
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.
```

```
// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
```

```
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}
```

```
// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
```

```
 c.xGoogHeaders = []string{"x-goog-api-client", gax.XGoogHeader(kv...)}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns
 nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds
 = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
```

```
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil
{
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

```
// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx,
 hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
```

```
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for
 a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds
 = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
```

```
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return
nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
```

```
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.RequestId != nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v",
"project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return
err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
```

```
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm
 := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
```

```
 }
 if req != nil && req.MaxResults != nil {
  params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
 }
 if req != nil && req.OrderBy != nil {
  params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req !=
nil && req.PageToken != nil {
  params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return
err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
```

```
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption)
 (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
```

```
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e
 := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
```

```
// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx
 context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
```

```
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
 items    []*computepb.License
 pageInfo
 *iterator.PageInfo
 nextFunc func() error

 // Response is the raw response for the current page.
 // It must be cast to the RPC response type.
 // Calling Next() or InternalFetch() updates this value.
 Response interface{}

 // InternalFetch is for use by the Google Cloud Libraries only.
 // It is not part of the stable interface of this package.
 //
 // InternalFetch returns results from a single call to the underlying RPC.
 // The number of results is no greater than pageSize.
 // If there are no more results, nextPageToken is empty and err is nil.
 InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
 return it.pageInfo
}
```

```
// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done,
 all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
 var item *computepb.License
 if err := it.nextFunc(); err != nil {
  return item, err
 }
 item = it.items[0]
 it.items = it.items[1:]
 return item, nil
}

func (it *LicenseIterator) bufLen() int {
 return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
 b := it.items
 it.items = nil
 return b
}
```

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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {

```
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
```

```
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

```
func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
```

```
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
 }
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range
 values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown
 in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
```

```
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
```

```
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
```

```
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseCodeRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
}
resp,
err := c.TestIamPermissions(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

1.3967 container-device-interface-specs-go 0.7.2

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1.3971 x-exp 0.0.0-20240613232115-7f521ea00fb8

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1.3972 tar-split 0.11.5

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1.3973 go-cni 1.1.10

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1.3974 aws-sdk-go-v2-internal-ini 1.7.3

1.3974.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil,
```

```
 err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err !=
 nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
```

```
}
if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack);
err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
```

```
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
```

AWS SDK for Go

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```
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
```

```
      uses: actions/checkout@v2
      with:
        path: sdkbase
        ref: ${{ github.base_ref }}
    - name: Checkout this ref
      uses: actions/checkout@v2
      with:
        path: new-ref
        fetch-depth: 0
    - name: Get Diff
      run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
    - name: Get Target Files
      run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
       uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
```

```
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
```

```
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return
 err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckInLicense",
 }
}
{
   "smithy": "2.0",
   "shapes": {
       "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
           "type": "integer"
       },
       "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
           "type": "long"
       },
       "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
           "type": "structure",
           "members": {
```

"Name": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of name to filter by. "
}
},
"Values": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " One or more values for the name to filter by. "
}
},
"Operator": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
"traits": {
"smithy.api#documentation": " An operator for filtering results. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter object that is used to return more specific results from a describe operation.\n Filters can be used to match a set of resources by specific criteria. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
},
"output": {

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the Linux subscriptions service settings.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/GetServiceSettings"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest":
{
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "LinuxSubscriptionsDiscovery": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
                "traits": {
                    "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
                }
            },
            "LinuxSubscriptionsDiscoverySettings": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
                "traits": {
                    "smithy.api#documentation": "<p>Lists the settings defined for Linux subscriptions discovery. The
settings include if\n      Organizations integration has been enabled, and
 which Regions data will be aggregated from.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
                }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
                "traits": {
                    "smithy.api#documentation": "<p>A message which details the Linux subscriptions service settings
current status.</p>"
                }
            },
```

"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
"type": "structure",
"members": {
"AmiId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The AMI ID used to launch the instance. "
}
},
"InstanceID": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The instance ID of the resource. "
}
},
"InstanceType": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The instance type of the resource. "
}

},
"AccountID": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The account ID which owns the instance. "
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of the instance. "
}
},
"Region": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The Region the instance is running in. "
}

```
            },
            "UsageOperation": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The usage operation of the instance. For more information, see For
 more information, see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-
subscriptions-usage-operation.html\">Usage\n        operation values</a> in the <i>License Manager User
Guide</i>.</p>"
                }
            },
            "ProductCode": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
                "traits": {
                    "smithy.api#documentation": "<p>The product code for the instance. For more information, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-
operation.html\">Usage\n        operation values</a> in the <i>License Manager User Guide</i> .</p>"
                }
            },
            "LastUpdatedTime": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The time in which the last discovery
 updated the instance details.</p>"
                }
            },
            "SubscriptionName": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the subscription being used by the instance.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details discovered information about a running instance using Linux
subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
```

```
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
        "smithy.api#error": "server"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
    "type": "service",
    "version": "2018-05-10",
    "operations": [
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
        }
    ],

"traits": {
        "aws.api#service": {
            "sdkId": "License Manager Linux Subscriptions",
            "arnNamespace": "license-manager-linux-subscriptions",
            "cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
        },
        "aws.auth#sigv4": {
            "name": "license-manager-linux-subscriptions"
        },
        "aws.protocols#restJson1": {},
        "smithy.api#cors": {
            "additionalAllowedHeaders": [
                "*",
                "content-type",
                "x-amz-content-sha256",
                "x-amz-user-agent",
                "x-amzn-platform-id",
                "x-amzn-trace-id",
                "content-length",
                "x-api-key",
                "authorization",
                "x-amz-date",
```

"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"
]
},
"smithy.api#documentation": " With License Manager, you can discover and track your commercial Linux subscriptions on running\n Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager Linux Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}
},

```
"rules": [
  {
    "conditions": [
      {
        "fn": "isSet",
        "argv": [
          {
            "ref": "Endpoint"
          }
        ]
      }
    ],
    "type": "tree",
    "rules": [
      {

        "conditions": [
          {
            "fn": "booleanEquals",
            "argv": [
              {
                "ref": "UseFIPS"
              },
              true
            ]
          }
        ],
        "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
        "type": "error"
      },
      {
        "conditions": [],
        "type": "tree",
        "rules": [
          {

          "conditions": [
            {
              "fn": "booleanEquals",
              "argv": [
                {
                  "ref": "UseDualStack"
                },
                true
              ]
            }
          ],
          "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
```

"type": "error"
},
{
"conditions": [],

"endpoint": {
"url": {
"ref": "Endpoint"
},
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
}
]
},
{
"conditions": [],
"type": "tree",
"rules": [
{
"conditions": [
{
"fn": "isSet",

"argv": [
{
"ref": "Region"
}
]
}
],
"type": "tree",
"rules": [
{
"conditions": [
{
"fn": "aws.partition",
"argv": [
{
"ref": "Region"
}
],

"assign": "PartitionResult"
}

```
                    ],
                    "type": "tree",
                    "rules": [
                      {
                        "conditions": [
                          {
                            "fn": "booleanEquals",
                            "argv": [
                              {
                                "ref": "UseFIPS"
                              },
                              true
                            ]
                          },

                {
                            "fn": "booleanEquals",
                            "argv": [
                              {
                                "ref": "UseDualStack"
                              },
                              true
                            ]
                          }
                        ],
                        "type": "tree",
                        "rules": [
                          {
                            "conditions": [
                              {

                            "fn": "booleanEquals",
                                "argv": [
                                  true,
                                  {
                                    "fn": "getAttr",
                                    "argv": [
                                      {
                                        "ref": "PartitionResult"
                                      },
                                      "supportsFIPS"
                                    ]

}
                                ]
                              },
                              {
                                "fn": "booleanEquals",
```

```
                "argv": [
                  true,
                  {
                    "fn": "getAttr",
                    "argv": [
                      {
                        "ref": "PartitionResult"
                      },

                "supportsDualStack"
                    ]
                  }
                ]
              }
            ],
            "type": "tree",
            "rules": [
              {
                "conditions": [],
                "type": "tree",
                "rules": [
                  {

          "conditions": [],
                    "endpoint": {
                      "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                      "properties": {},
                      "headers": {}
                    },
                    "type": "endpoint"
                  }
                ]
              }
            ]

        },
            {
              "conditions": [],
              "error": "FIPS and DualStack are enabled, but this partition does not support
one or both",
              "type": "error"
            }
          ]
        },
        {
          "conditions": [
            {
```

"fn": "booleanEquals",
"argv": [
{

"ref": "UseFIPS"
},
true
]
}
],
"type": "tree",
"rules": [
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
true,

{
"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsFIPS"
]
}
]
}
],
"type": "tree",

"rules": [
{
"conditions": [],
"type": "tree",
"rules": [
{
"conditions": [],
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.{Region}.{PartitionResult#dnsSuffix}",
"properties": {},
"headers": {}

},
"type": "endpoint"

```
                    }
                ]
            }
        ]
    },
    {
        "conditions": [],
        "error": "FIPS is enabled but this partition does not support FIPS",
        "type": "error"
    }
]

},
{
    "conditions": [
        {
            "fn": "booleanEquals",
            "argv": [
                {
                    "ref": "UseDualStack"
                },
                true
            ]
        }
    ],
    "type": "tree",
    "rules": [
        {

     "conditions": [
                {
                    "fn": "booleanEquals",
                    "argv": [
                        true,
                        {
                            "fn": "getAttr",
                            "argv": [
                                {
                                    "ref": "PartitionResult"
                                },
                                "supportsDualStack"
                            ]
                        }
                    ]
                }
            ],
            "type": "tree",
            "rules": [
```

```
                                    {
                                        "conditions": [],
                                        "type": "tree",
                                        "rules": [
                                            {
                                                "conditions": [],

                                      "endpoint": {
                                                    "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                                    "properties": {},
                                                    "headers": {}
                                                },
                                                "type": "endpoint"
                                            }
                                        ]
                                    }
                                ]
                            },

        {
                                "conditions": [],
                                "error": "DualStack is enabled but this partition does not support DualStack",
                                "type": "error"
                            }
                        ]
                    },
                    {
                        "conditions": [],
                        "type": "tree",
                        "rules": [
                            {
                                "conditions": [],
                                "endpoint": {
                                    "url":
 "https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                                    "properties": {},
                                    "headers": {}
                                },
                                "type": "endpoint"
                            }
                        ]
                    }
                ]
            }
        ]
    },
    {
```

"conditions": [],
"error": "Invalid Configuration: Missing Region",
"type": "error"
}
]
}
]
},
"smithy.rules#endpointTests": {
"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {

"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,

"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {

"url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"

```
            }
        },
        "params": {
            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": true
        }
    },
    {
        "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint":
{
                "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
            }
        },
        "params": {
            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
            }
        },
        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": true,
             "UseDualStack": true
        }
    },
    {
        "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": true,
            "UseDualStack": false
        }
    },
```

```
        {
          "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
          "expect": {
            "endpoint":
{
              "url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
            }
          },
          "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
             "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
          "expect": {
            "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
          },
          "params": {
            "Region": "us-iso-east-1",
            "UseFIPS": true,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
             }
          },
          "params": {
            "Region": "us-iso-east-1",
            "UseFIPS": true,
```

"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{

"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {

"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {

"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",

"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",

```
  "expect": {
                "endpoint": {
                  "url": "https://example.com"
                }
            },
            "params": {
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips enabled and dualstack disabled",
            "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false,

   "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips disabled and dualstack enabled",
            "expect": {
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "Missing region",
            "expect": {
                "error": "Invalid Configuration: Missing Region"
            }

 }
      ],
      "version": "1.0"
   }
}
```

```
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
      "type": "string",
      "traits": {
        "smithy.api#enum": [
          {
            "name": "Enabled",
            "value": "Enabled",
            "documentation": "Enabled LinuxSubscriptionsDiscovery"
          },
          {
            "name": "Disabled",
            "value": "Disabled",
            "documentation": "Disabled LinuxSubscriptionsDiscovery"
          }
        ]
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
      "type": "structure",
      "members": {
        "SourceRegions": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
           "traits": {
            "smithy.api#documentation": "<p>The Regions in which to discover data for Linux
subscriptions.</p>",
            "smithy.api#required": {}
          }
        },
        "OrganizationIntegration": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
          "traits": {
            "smithy.api#documentation": "<p>Details if you have enabled resource discovery across your
accounts in Organizations.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Lists the settings defined for discovering Linux subscriptions.</p>"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
      "type":
 "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
      },
```

"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the running Amazon EC2 instances that were discovered with commercial Linux\n subscriptions. ",
"smithy.api#http": {

"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptionInstances"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Instances"
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n match, or don't match a certain Amazon Machine Image (AMI) ID. \n The valid names for this filter are: \n \n \n \n <code>AmiID</code>\n \n \n \n \n <code>InstanceID</code>\n \n \n \n \n <code>AccountID</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Region</code>\n \n \n \n \n <code>UsageOperation</code>\n \n \n \n

```
<p>\n <code>ProductCode</code>\n </p>\n </li>\n <li>\n <p>\n
<code>InstanceType</code>\n </p>\n </li>\n </ul>\n <p>The valid Operators for this
filter are:</p>\n <ul>\n <li>\n <p>\n <code>contains</code>\n </p>\n
</li>\n <li>\n <p>\n <code>equals</code>\n </p>\n </li>\n <li>\n
<p>\n <code>Notequal</code>\n </p>\n </li>\n </ul>"
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"

}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": "<p>Token for the next set of results.</p>",
"smithy.api#length": {
"min": 1,
"max": 16384
}
}
}
},
"traits": {
"smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
"type": "structure",
"members": {
"Instances": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
"traits": {
"smithy.api#documentation":
"<p>An array that contains instance objects.</p>"
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": "<p>Token for the next set of results.</p>"
}
}
}
},
```

"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions that have been discovered. If you have linked your\n organization, the returned results will include data aggregated across your accounts in\n Organizations. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptions"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Subscriptions"
}

}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>Subscription</code> with an optional operator to see subscriptions that match,\n partially match, or don't match a certain subscription's name. \n The valid names for this filter are: \n \n

```
<li>\n <p>\n <code>Subscription</code>\n </p>\n </li>\n </ul>\n
<p>The valid Operators for this filter are:</p>\n
<ul>\n <li>\n <p>\n <code>contains</code>\n </p>\n </li>\n
<li>\n <p>\n <code>equals</code>\n </p>\n </li>\n <li>\n <p>\n
<code>Notequal</code>\n </p>\n </li>\n </ul>"
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": "<p>Token for the next set of results.</p>",
"smithy.api#length": {

"min": 1,
"max": 16384
}
}
}
},
"traits": {
"smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
"type": "structure",
"members": {
"Subscriptions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
"traits": {
"smithy.api#documentation": "<p>An array that contains subscription objects.</p>"
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": "<p>Token for
the next set of results.</p>"
}
}
}
},
```

```
    "com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "name": "EQUAL",
                    "value": "Equal",
                    "documentation": "Equal operator"
                },
                {
                    "name": "NOT_EQUAL",
                    "value": "NotEqual",
                    "documentation": "Not equal operator"
                },
                {
                    "name": "CONTAINS",
                    "value": "Contains",
                    "documentation": "Contains operator"
                }
            ],
            "smithy.api#length": {
                "min": 1,
                "max": 20
            }
        }
    },

"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "name": "Enabled",
                    "value": "Enabled",
                    "documentation": "Enabled OrganizationIntegration"
                },
                {
                    "name": "Disabled",
                    "value": "Disabled",
                    "documentation": "Disabled OrganizationIntegration"
                }
            ]
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
        "type": "list",
        "member": {
            "target": "smithy.api#String"
```

```
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [

    {
                "name": "InProgress",
                "value": "InProgress",
                "documentation": "InProgress status"
            },
            {
                "name": "Completed",
                "value": "Completed",
                "documentation": "Completed status"
            },
            {
                "name": "Successful",
                "value": "Successful",
                "documentation": "Successful status"
            },
            {
                "name": "Failed",
                "value": "Failed",
                "documentation": "Failed status"
            }
        ]
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
        "type": "list",
        "member": {
            "target": "smithy.api#String",
            "traits":
{
                "smithy.api#length": {
                    "min": 1,
                    "max": 100
                }
            }
        },
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max": 100
            },
            "smithy.api#uniqueItems": {}
```

```
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
        "type": "map",
        "key": {
            "target": "smithy.api#String"
        },
        "value": {
            "target": "smithy.api#String"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the subscription.</p>"

        }
            },
            "Type": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The type of subscription. The type can be subscription-included
with Amazon EC2, Bring Your Own\n      Subscription model (BYOS), or from the Amazon Web Services
Marketplace. Certain subscriptions may use licensing from the\n      Amazon Web Services Marketplace as well as
OS licensing from Amazon EC2 or BYOS.</p>"
                }
            },
            "InstanceCount": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>The total amount of running instances using this subscription.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>An object which details a discovered Linux
subscription.</p>"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
        }
    },
```

"com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request was denied due to request throttling. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
},

"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates the service settings for Linux subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/UpdateServiceSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest":
{
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",

"traits": {
"smithy.api#documentation": " Describes if the discovery of Linux subscriptions is enabled. ",
"smithy.api#required": {}
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. ",

"smithy.api#required": {}
}
},
"AllowUpdate": {
"target": "smithy.api#Boolean",
"traits": {
"smithy.api#documentation": " Describes if updates are allowed to the service settings for Linux subscriptions. If you\n allow updates, you can aggregate Linux subscription data in more than one home Region. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},

"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "

```
                }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
                "traits": {
                    "smithy.api#documentation":
 "<p>A message which details the Linux subscriptions service settings current status.</p>"
                }
            },
            "HomeRegions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>The Region in which License Manager displays the aggregated
data for Linux\n      subscriptions.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
            "smithy.api#error": "client"
        }
    }
  }
}
```


```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
```

```
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - Beneficiary
 //   - ProductSKU
 //   - Fingerprint
 //
   - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
```

```
 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if
 err := addProtocolFinalizerMiddlewares(stack, options, "ListLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
```

```
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
     ServiceID,
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
```

```
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 //
 This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
```

```
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack,
 options, "DisassociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
```

```
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
```

```
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource
 Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string
```

```
 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil
 {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
```

```
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
```

```
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier
 that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string
```

```
 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string
```

```
 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
```

```
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return
 err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
```

```
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide
```

```
to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional
// configuration for workloads running with continuous connectivity. Choose a
// borrow configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity
```

```
 *types.DatetimeRange

 // Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
  return fmt.Errorf("add
 protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName:
 "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
```

```
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
```

```
 return
err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack);
err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "GetLicense",
 }
}
```

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```
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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
   - ProductSKU
 //   - Status
 //   - Fingerprint
 //   - IssuerName
 //   - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
```

```
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
 middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
```

```
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
 }
}
```

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```
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
        "smithy.api#error": "client"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
```

"type": "structure",
"members": {
"DirectoryId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The directory ID for an Active Directory identity provider. "
}
}
},
"traits": {
"smithy.api#documentation":
" Details about an Active Directory identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Associates the user to an EC2 instance to utilize user-based
subscriptions. \n <note>\n Your estimated bill for charges on the number of users and related

costs will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more information, see Viewing your\n monthly charges in the Amazon Web Services Billing User Guide. \n </note>",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/AssociateUser"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " The identity provider of the user. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
"type": "structure",
"members": {

```
            "InstanceUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
                 "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
        "type": "integer"
    },
    "com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request couldn't be completed because it conflicted with the current
state of the\n      resource.</p>",
            "smithy.api#error": "server"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider":
 {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
```

"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deregisters the identity provider from providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/DeregisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}

```
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Disassociates the user from an EC2 instance providing user-based
subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/DisassociateUser"
            },
            "smithy.api#idempotent": {}
        }

 },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
```

"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
}
},

"com.amazonaws.licensemanagerusersubscriptions#Filter": {
"type": "structure",

"members": {
"Attribute": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of an attribute to use as a filter. "
}
},
"Operation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of search (For example, eq, geq, leq) "
}
},
"Value": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Value of the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter name and value pair that is used
to return more specific results from a describe\n operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n attributes, or IDs. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
"type": "union",
"members": {
"ActiveDirectoryIdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
"traits": {
"smithy.api#documentation": " An object that details an Active Directory identity provider. "
}
}
},
"traits": {
"smithy.api#documentation":
" Details about an identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {

"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " An object that details the registered identity providers product related configuration\n settings such as the subnets to provision VPC endpoints. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of an identity provider. ",
"smithy.api#required": {}
}
},
"FailureMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The failure message associated with an identity provider. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"

```
            }
        },
        "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
            "type": "structure",
            "members": {
                "InstanceId": {
                    "target": "smithy.api#String",
                    "traits": {
                        "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                        "smithy.api#required": {}
                    }
                },
                "Status": {
                    "target": "smithy.api#String",
                    "traits": {
                        "smithy.api#documentation": "<p>The status
 of an EC2 instance resource.</p>",
                        "smithy.api#required": {}
                    }
                },
                "Products": {
                    "target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
                    "traits": {
                        "smithy.api#documentation": "<p>A list of provided user-based subscription products.</p>",
                        "smithy.api#required": {}
                    }
                },
                "LastStatusCheckDate": {
                    "target": "smithy.api#String",
                    "traits": {
                        "smithy.api#documentation": "<p>The date of the last status check.</p>"
                    }
                },
                "StatusMessage": {
                    "target": "smithy.api#String",
                    "traits": {
                        "smithy.api#documentation": "<p>The status message for an EC2 instance.</p>"
                    }

        }
            },
            "traits": {
                "smithy.api#documentation": "<p>Describes an EC2 instance providing user-based subscriptions.</p>"
            }
        },
        "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
            "type": "list",
```

```
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits":
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                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status of a user associated with an EC2 instance.</p>",
                    "smithy.api#required": {}
                }
            },
            "StatusMessage": {
                "target": "smithy.api#String",
                 "traits": {
                    "smithy.api#documentation": "<p>The status message for users of an EC2 instance.</p>"
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
```

```
            },
            "AssociationDate": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The date a user was associated with an EC2 instance.</p>"
                }
            },
            "DisassociationDate": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The date a user was disassociated from an EC2 instance.</p>"
                }
            }

    },
        "traits": {
            "smithy.api#documentation": "<p>Describes users of an EC2 instance providing user-based
subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
            "smithy.api#error": "server"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
        "type": "service",

     "version": "2018-05-10",
        "operations": [
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                "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
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```
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

    },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
        }
      ],
      "traits": {
        "aws.api#service": {
          "sdkId": "License Manager User Subscriptions",
          "arnNamespace": "license-manager-user-subscriptions",
          "cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
        },
        "aws.auth#sigv4": {
          "name": "license-manager-user-subscriptions"
         },
        "aws.protocols#restJson1": {},
        "smithy.api#cors": {
          "additionalAllowedHeaders": [
            "*",
            "content-type",
            "x-amz-content-sha256",
            "x-amz-user-agent",
            "x-amzn-platform-id",
            "x-amzn-trace-id",
```

"content-length",
"x-api-key",
"authorization",
"x-amz-date",
"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"

]
},
"smithy.api#documentation": " With License Manager, you can create user-based subscriptions to utilize licensed software with\n a per user subscription fee on Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager User Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",

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            "type": "String"
          }

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          {
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                "fn": "isSet",
                "argv": [
                  {
                    "ref": "Endpoint"
                  }
                ]
              }
            ],
            "type": "tree",
            "rules": [
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                "conditions": [
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseFIPS"
                      },

                    true
                    ]
                  }
                ],
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
                "type": "error"
              },
              {
                "conditions": [
                  {
                    "fn": "booleanEquals",
                    "argv": [
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                        "ref": "UseDualStack"
                      },
                      true
                    ]
                  }
                ],
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"error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
"type": "error"
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"conditions": [],
"endpoint": {
"url": {
"ref": "Endpoint"
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"type": "endpoint"
}
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"fn": "isSet",
"argv": [

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"ref": "Region"
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"type": "tree",
"rules": [
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"conditions": [
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"fn": "aws.partition",
"argv": [
{
"ref": "Region"
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"assign": "PartitionResult"
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],
"type": "tree",

"rules": [
{
"conditions": [
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                "fn": "booleanEquals",
                "argv": [
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                    "ref": "UseFIPS"
                  },
                  true
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              },
              {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseDualStack"

                  },
                  true
                ]
              }
            ],
            "type": "tree",
            "rules": [
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                "conditions": [
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                    "fn": "booleanEquals",
                    "argv": [
                      true,
                      {
                        "fn": "getAttr",

"argv": [
                          {
                            "ref": "PartitionResult"
                          },
                          "supportsFIPS"
                        ]
                      }
                    ]
                  },
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      true,
                      {

        "fn": "getAttr",
                        "argv": [
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"ref": "PartitionResult"
},
"supportsDualStack"
]
}
]
}
],
"type": "tree",
"rules": [
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"conditions": [],
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
},
{
"conditions": [],
"error": "FIPS and DualStack are enabled, but this partition does not support one or both",
"type": "error"
}
]
},
{
"conditions": [
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"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
},
true
]
}
],
"type": "tree",

"rules": [
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"conditions": [

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                      "fn": "booleanEquals",
                      "argv": [
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                          "fn": "getAttr",
                          "argv": [
                            {
                              "ref": "PartitionResult"
                            },
                            "supportsFIPS"

                    ]
                        }
                      ]
                    }
                  ],
                  "type": "tree",
                  "rules": [
                    {
                      "conditions": [],
                      "endpoint": {
                        "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                        "properties": {},
                        "headers": {}

            },
                      "type": "endpoint"
                    }
                  ]
                },
                {
                  "conditions": [],
                  "error": "FIPS is enabled but this partition does not support FIPS",
                  "type": "error"
                }
              ]
            },
            {
              "conditions": [
                {
                  "fn": "booleanEquals",
                  "argv": [
                    {
                      "ref": "UseDualStack"
                    },
                    true
```

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                ]
            }
        ],
        "type": "tree",
        "rules": [
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                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
                            {

                              "fn": "getAttr",
                                  "argv": [
                                      {
                                          "ref": "PartitionResult"
                                      },
                                      "supportsDualStack"
                                  ]
                            }
                        ]
                    }
                ],
                "type": "tree",
                "rules": [
                    {

                       "conditions": [],
                        "endpoint": {
                            "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                            "properties": {},
                            "headers": {}
                        },
                        "type": "endpoint"
                    }
                ]
            },
            {
                "conditions": [],
                "error": "DualStack is enabled but this partition does
 not support DualStack",
                "type": "error"
            }
        ]
    },
    {
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"conditions": [],
"endpoint": {
"url": "https://license-manager-user-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
}
]
},
{
"conditions": [],
"error": "Invalid Configuration: Missing Region",
"type": "error"
}
]
},
"smithy.rules#endpointTests": {
"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false

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            }
        },
        {
            "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
                }
            },

        "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region cn-north-1 with
 FIPS enabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
                }
            },
            "params": {
                "Region": "cn-north-1",
                "UseFIPS": true,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
            "expect": {
                "endpoint": {
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"url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},

"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1
with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,

"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1
with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
}
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{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
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"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"

```
            },
            "params": {
              "Region": "us-iso-east-1",
              "UseFIPS": true,
              "UseDualStack": true
            }
          },
          {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
            "expect":
{
              "endpoint": {
                "url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
              }
            },
            "params": {
              "Region": "us-iso-east-1",
              "UseFIPS": true,
              "UseDualStack": false
            }
          },
          {
            "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
              "error": "DualStack is enabled but this partition does not support DualStack"
            },
            "params": {
              "Region": "us-iso-east-1",
              "UseFIPS": false,
              "UseDualStack":
true
            }
          },
          {
            "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
              }
            },
            "params": {
              "Region": "us-iso-east-1",
              "UseFIPS": false,
              "UseDualStack": false
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          {
            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
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"expect": {
"error": "FIPS and DualStack are enabled, but
this partition does not support one or both"
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"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}

},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},

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            {
              "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://example.com"
                }
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
              }
            },
            {

"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://example.com"
                }
              },
              "params": {
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "For custom endpoint with fips enabled and dualstack disabled",
              "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
              },
              "params": {
                "Region": "us-east-1",
                 "UseFIPS": true,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "For custom endpoint with fips disabled and dualstack enabled",
              "expect": {
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
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                "UseDualStack": true,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "Missing region",
            "expect": {
                "error": "Invalid Configuration: Missing Region"
            }
        }
    ],
    "version": "1.0"
  }
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
    }
  ],
  "traits": {
    "smithy.api#documentation": "<p>Lists the identity providers for user-based subscriptions.</p>",
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"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/ListIdentityProviders"
},
"smithy.api#paginated":
{
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "IdentityProviderSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
{
"type": "structure",
"members": {
"IdentityProviderSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list identity providers operation. ",
"smithy.api#required": {}
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}

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    }
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
        "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/instance/ListInstances"
        },
        "smithy.api#paginated": {
            "inputToken": "NextToken",
            "outputToken": "NextToken",
            "pageSize": "MaxResults",
            "items": "InstanceSummaries"
        }
    }
},
```

"com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
"type": "structure",
"members": {
"InstanceSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list instances operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
},
"output": {

"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the user-based subscription products available from an identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/ListProductSubscriptions"
},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "ProductUserSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
"type": "structure",
"members": {
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name

of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {

"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
"type": "structure",
"members": {
"ProductUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list product subscriptions operation. "
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "

```
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target":
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists user associations for an identity provider.</p>",
          "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/user/ListUserAssociations"
          },
          "smithy.api#paginated":
{
            "inputToken": "NextToken",
            "outputToken": "NextToken",
            "pageSize": "MaxResults",
```

"items": "InstanceUserSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
"type": "structure",
"members": {
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
"type": "structure",
"members": {

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        "InstanceUserSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Metadata that describes the list user association operation.</p>"
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
  },
  "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
    "type": "structure",
    "members": {

    "Username": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                "smithy.api#required": {}
            }
        },
        "Product": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                "smithy.api#required": {}
            }
        },
        "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
                "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                "smithy.api#required": {}
            }

  },
        "Status": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The status of a product for a user.</p>",
                "smithy.api#required": {}
            }
        },
        "StatusMessage": {
```

"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for a product for a user. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"SubscriptionStartDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The
start date of a subscription. "
}
},
"SubscriptionEndDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The end date of a subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " The summary of the user-based subscription products for a user. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{

"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Registers an identity provider for user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/RegisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",

"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings such as the\n subnets to provision VPC endpoints. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary":
{
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The resource couldn't be found. ",
"smithy.api#error": "client",
"smithy.api#httpError": 404
}
},
"com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
"type": "string",

"traits": {
"smithy.api#length": {
"min": 5,
"max": 200
},
"smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
"type": "structure",
"members": {

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            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request failed because a service quota is exceeded.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Settings": {
        "type": "structure",
        "members": {
            "Subnets": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
                "traits": {
                    "smithy.api#documentation":
 "<p>The subnets defined for the registered identity provider.</p>",
                    "smithy.api#length": {
                        "min": 1
                    },
                    "smithy.api#required": {}
                }
            },
            "SecurityGroupId": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
                "traits": {
                    "smithy.api#documentation": "<p>A security group ID that allows inbound TCP port 1688
communication between resources in\n      your VPC and the VPC endpoint for activation servers.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The registered identity providers product related configuration settings
such as the\n      subnets to provision VPC endpoints, and the security group ID that
 is associated with the VPC\n      endpoints. The security group should permit inbound TCP port 1688
communication from resources\n      in the VPC.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
        },
        "errors": [
```

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            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Starts a product subscription for a user with the specified identity provider.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related costs will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing.
 For more information, see <a href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n        monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/StartProductSubscription"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
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"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
"type": "structure",
"members": {
"ProductUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the start product subscription operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

},
{

"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Stops a product subscription for a user with the specified identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/StopProductSubscription"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required":
{}
}
},
"Product": {
"target": "smithy.api#String",

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            "traits": {
                "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                "smithy.api#required": {}
            }
        },
        "Domain": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
    "type": "structure",
    "members": {
        "ProductUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
            "traits": {
                "smithy.api#documentation":
"<p>Metadata that describes the start product subscription operation.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#StringList": {
    "type": "list",
    "member": {
        "target": "smithy.api#String"
    }
},
"com.amazonaws.licensemanagerusersubscriptions#Subnet": {
    "type": "string",
    "traits": {
        "smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
    }
},
"com.amazonaws.licensemanagerusersubscriptions#Subnets": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
    "type": "structure",
    "members": {
        "message": {
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"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request was denied because of request throttling. Retry the request. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates additional product configuration settings for the registered identity\n provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/UpdateIdentityProviderSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",

"traits": {
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"UpdateSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings. You can\n update any combination of settings in a single operation such as the: \n \n \n Subnets which you want to add to provision VPC endpoints. \n \n \n Subnets which you want to remove the VPC endpoints from. \n \n \n Security group ID which permits traffic to the VPC endpoints. \n \n ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
"type": "structure",
"members": {
"AddSubnets": {

"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets in which License Manager will create a VPC endpoint for products that\n require connectivity to activation servers. ",
"smithy.api#required": {}
}
},
"RemoveSubnets": {

"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets to remove. ",
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID
that allows inbound TCP port 1688 communication between resources in\n your VPC and the VPC endpoints for activation servers. "
}
}
},
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings such as\n the subnets to provision VPC endpoints. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " A parameter is not valid. ",
"smithy.api#error": "client"
}
}
}
}
{
"smithy": "2.0",
"metadata": {
"suppressions": [
{
"id": "HttpMethodSemantics",
"namespace": "*"
},
{
"id": "HttpResponseCodeSemantics",
"namespace": "*"
},
{
"id": "PaginatedTrait",

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            "namespace": "*"
        },
        {
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            "namespace": "*"
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            "namespace": "*"
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"shapes": {
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        "type": "service",
        "version": "2018-08-01",
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                "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
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                "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
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                "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
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      "target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

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"target": "com.amazonaws.licensemanager#UpdateServiceSettings"
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"arnNamespace": "license-manager",
"cloudFormationName": "LicenseManager",
"cloudTrailEventSource": "licensemanager.amazonaws.com",
"endpointPrefix": "license-manager"
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"aws.auth#sigv4": {
"name": "license-manager"
},
"aws.protocols#awsJson1_1": {},
"smithy.api#documentation": " License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers. ",
"smithy.api#title": "AWS License Manager",
"smithy.api#xmlNamespace": {
"uri": "https://license-manager.amazonaws.com/doc/2018_08_01"

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              "builtIn": "AWS::Region",
              "required": false,
              "documentation": "The AWS region used to dispatch the request.",
              "type": "String"
            },
            "UseDualStack": {
              "builtIn": "AWS::UseDualStack",
              "required": true,
              "default": false,
              "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
              "type": "Boolean"
            },
            "UseFIPS": {
              "builtIn": "AWS::UseFIPS",
              "required": true,
              "default": false,
              "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
              "type": "Boolean"
            },
            "Endpoint": {
              "builtIn": "SDK::Endpoint",
              "required": false,
              "documentation": "Override the endpoint used to send this request",
              "type": "String"
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                  "argv": [
                    {
                      "ref": "Endpoint"
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                "type": "error"
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                "type": "error"
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                        "argv": [
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                                    "headers": {}

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                                "type": "endpoint"
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                "type": "error"
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                        "type": "endpoint"
                    }
                ]
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            {
                "conditions": [],
                "error": "FIPS is enabled but this
partition does not support FIPS",
                "type": "error"
            }
        ]
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    {
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                "fn": "booleanEquals",
                "argv": [
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                        "ref": "UseDualStack"
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                                "argv": [
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                                        "ref": "PartitionResult"
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"supportsDualStack"
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                                "type": "endpoint"
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                        "type": "error"
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                "conditions": [],
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                    "headers": {}
                },
                "type": "endpoint"
            }
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    "type": "error"
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"smithy.rules#endpointTests": {
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            "UseFIPS": false,
            "UseDualStack": false
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          "documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
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            }
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          "params": {
            "Region": "ap-east-1",
            "UseFIPS": false,
            "UseDualStack": false
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            "UseFIPS": false,
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          "expect": {
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          "params": {
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"UseFIPS": false,
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"url": "https://license-manager.ap-southeast-1.amazonaws.com"

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"params": {
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"documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",

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"UseFIPS": false,
"UseDualStack": false
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"params": {
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"UseDualStack": false
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"documentation": "For region ca-central-1 with FIPS disabled and DualStack disabled",
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"params": {
"Region": "ca-central-1",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
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"url": "https://license-manager.eu-central-1.amazonaws.com"
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"params": {
"Region": "eu-central-1",

"UseFIPS": false,
"UseDualStack": false
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disabled and DualStack disabled",
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"UseDualStack": false
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"Region": "eu-west-1",
"UseFIPS": false,
"UseDualStack": false
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"UseDualStack": false
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            "UseDualStack": false
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            "UseDualStack": false
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            "UseDualStack": false
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"https://license-manager.cn-north-1.amazonaws.com.cn"
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},
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}
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{
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"expect": {
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            "UseDualStack": true
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            "UseDualStack": false
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            }
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"UseDualStack": false
}
},
{
"documentation":
"For region us-gov-west-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-west-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-gov-east-1.api.aws"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{

"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": true
}

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      },
      {
        "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
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            "url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
          }
        },
        "params": {
          "Region": "us-isob-east-1",
          "UseFIPS": false,
          "UseDualStack": false
        }
      },

    {
        "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
        "expect": {
          "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
        },
        "params": {
          "Region": "us-isob-east-1",
          "UseFIPS": true,
          "UseDualStack": true
        }
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      {
        "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
          }
        },

"params": {
          "Region": "us-isob-east-1",
          "UseFIPS": true,
          "UseDualStack": false
        }
      },
      {
        "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
        "expect": {
          "error": "DualStack is enabled but this partition does not support DualStack"
        },
        "params": {
          "Region": "us-isob-east-1",
          "UseFIPS": false,
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"UseDualStack": true
}
},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,

"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {

"error":
"Invalid Configuration: Dualstack and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true,
"Endpoint": "https://example.com"
}
},
{
"documentation": "Missing region",
"expect": {
"error": "Invalid Configuration: Missing Region"
}
}
],
"version": "1.0"
}
}
},
"com.amazonaws.licensemanager#AcceptGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#AcceptGrantRequest"

},
"output": {
"target": "com.amazonaws.licensemanager#AcceptGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"

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            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"

    }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant
ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        },
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"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#AccessDeniedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {

"code": "ServiceAccessDenied",
"httpResponseCode": 401
},
"smithy.api#documentation": " Access to resource denied. ",
"smithy.api#error": "client",
"smithy.api#httpError": 401
}
},
"com.amazonaws.licensemanager#ActivationOverrideBehavior": {
"type": "enum",
"members": {
"DISTRIBUTED_GRANTS_ONLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
}
},
"ALL_GRANTS_PERMITTED_BY_ISSUER": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
}
}
}
},
"com.amazonaws.licensemanager#AllowedOperation": {

"type": "enum",
"members": {
"CREATE_GRANT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CreateGrant"
}

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            },
            "CHECKOUT_LICENSE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "CheckoutLicense"
                }
            },
            "CHECKOUT_BORROW_LICENSE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "CheckoutBorrowLicense"
                }
            },
            "CHECK_IN_LICENSE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "CheckInLicense"
                }
            },
            "EXTEND_CONSUMPTION_LICENSE":
{
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "ExtendConsumptionLicense"
                }
            },
            "LIST_PURCHASED_LICENSES": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "ListPurchasedLicenses"
                }
            },
            "CREATE_TOKEN": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "CreateToken"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#AllowedOperationList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#AllowedOperation"
        },
        "traits": {
            "smithy.api#length": {
                "min": 1,
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"max":
7
}
}
},
"com.amazonaws.licensemanager#Arn": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
}
},
"com.amazonaws.licensemanager#ArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
}
},
"com.amazonaws.licensemanager#AuthorizationException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError":
{
"code": "AuthorizationFailure",
"httpResponseCode": 403
},
"smithy.api#documentation": " The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n policy associated with this account. ",
"smithy.api#error": "client",
"smithy.api#httpError": 403
}
},
"com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
"type": "structure",
"members": {
"LastRunTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time that automated discovery last ran. "

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            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes automated discovery.</p>"
        }
      },

  "com.amazonaws.licensemanager#Boolean": {
        "type": "boolean",
        "traits": {
          "smithy.api#default": false
        }
      },
      "com.amazonaws.licensemanager#BorrowConfiguration": {
        "type": "structure",
        "members": {
          "AllowEarlyCheckIn": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>Indicates whether early check-ins are allowed.</p>",
              "smithy.api#required": {}
            }
          },
          "MaxTimeToLiveInMinutes": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
              "smithy.api#required": {}
            }
          }

},
        "traits": {
          "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#BoxBoolean": {
        "type": "boolean"
      },
      "com.amazonaws.licensemanager#BoxInteger": {
        "type": "integer"
      },
      "com.amazonaws.licensemanager#BoxLong": {
        "type": "long"
      },
      "com.amazonaws.licensemanager#CheckInLicense": {
        "type": "operation",
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"input": {
"target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"

},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks in the specified license. Check in a license when it is no longer in use. "
}
},
"com.amazonaws.licensemanager#CheckInLicenseRequest": {
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",
"smithy.api#required": {}
}

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            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicense":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

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            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members":
 {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
                    "smithy.api#required": {}
                }
            },
            "DigitalSignatureMethod": {
                "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
                "traits": {
                    "smithy.api#documentation": "<p>Digital signature method. The possible
 value is JSON Web Signature (JWS) algorithm PS384.\n         For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>",
                    "smithy.api#required": {}
                }
            },
```

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            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation":
"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>"
                }
            },
            "EntitlementsAllowed":
{
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
                }
            },
            "NodeId": {
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"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"SignedToken": {
"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout
is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target":
"com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks out the specified license. \n <note>\n If the account that created the license is the same that is performing the check out, you must\n specify the account as the beneficiary. \n </note>"
}
},
"com.amazonaws.licensemanager#CheckoutLicenseRequest": {
"type": "structure",
"members": {
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product
SKU. ",
"smithy.api#required": {}
}
},
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {

"smithy.api#documentation": " Checkout type. ",
"smithy.api#required": {}
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Key fingerprint identifying the license. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. ",

"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
"type": "structure",
"members": {

"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " Allowed license entitlements. "
}
},
"SignedToken": {
"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and
time at which the license checkout expires. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the checkout license. "
}

```
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CheckoutType": {
    "type": "enum",
    "members": {
        "PROVISIONAL": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PROVISIONAL"
            }
        },
        "PERPETUAL": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PERPETUAL"
            }
        }
    }
},
"com.amazonaws.licensemanager#ClientRequestToken": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 36
        }
    }
},
"com.amazonaws.licensemanager#ClientToken": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 2048
        },
        "smithy.api#pattern": "^\\S+$"
    }
},
"com.amazonaws.licensemanager#ConflictException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
```

```
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ConflictException",
                "httpResponseCode":
 409
            },
            "smithy.api#documentation": "<p>There was a conflict processing the request. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 409
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
                }
            },
            "ConsumedLicenses": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
                }
            }
        },

 "traits": {
            "smithy.api#documentation": "<p>Details about license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
        }
    },
    "com.amazonaws.licensemanager#ConsumptionConfiguration": {
        "type": "structure",
        "members": {
            "RenewType": {
                "target": "com.amazonaws.licensemanager#RenewType",
                "traits": {
                    "smithy.api#documentation": "<p>Renewal frequency.</p>"
                }
```

```
            },
            "ProvisionalConfiguration": {
                "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
                }
            },
            "BorrowConfiguration": {
                "target": "com.amazonaws.licensemanager#BorrowConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
```

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of license\n        entitlements with a specific Amazon Web Services account, an organization, or an\n organizational unit (OU). For more
 information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}

    }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Principals": {
                "target": "com.amazonaws.licensemanager#PrincipalArnList",
                "traits": {
                    "smithy.api#documentation": "<p>The grant principals. You can specify one of the following as an Amazon Resource Name\n        (ARN):</p>\n        <ul>\n            <li>\n                <p>An Amazon Web Services account, which includes only the account specified.</p>\n            </li>\n        </ul>\n        <ul>\n            <li>\n
    <p>An organizational unit (OU), which includes all accounts in the OU.</p>\n            </li>\n        </ul>\n <ul>\n
            <li>\n                <p>An organization, which will include all accounts across your organization.</p>\n </li>\n        </ul>",
                    "smithy.api#required": {}
                }
```

```
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "AllowedOperations": {
            "target": "com.amazonaws.licensemanager#AllowedOperationList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed operations for the grant.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},

"com.amazonaws.licensemanager#CreateGrantResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateGrantVersion":
```

```
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
             },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information, see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",

  "smithy.api#required": {}
                }
```

```
    },
    "GrantArn": {
        "target": "com.amazonaws.licensemanager#Arn",
        "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
            "smithy.api#required": {}
        }
    },
    "GrantName": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Grant name.</p>"
        }
    },
    "AllowedOperations": {
        "target": "com.amazonaws.licensemanager#AllowedOperationList",
        "traits": {
            "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
        }
    },
    "Status": {
        "target": "com.amazonaws.licensemanager#GrantStatus",
         "traits": {
            "smithy.api#documentation": "<p>Grant status.</p>"
        }
    },
    "StatusReason": {
        "target": "com.amazonaws.licensemanager#StatusReasonMessage",
        "traits": {
            "smithy.api#documentation": "<p>Grant status reason.</p>"
        }
    },
    "SourceVersion": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Current version of the grant.</p>"
        }
    },
    "Options": {
        "target": "com.amazonaws.licensemanager#Options",
        "traits": {
            "smithy.api#documentation": "<p>The options specified for the grant.</p>"
        }
    }
},
 "traits": {
    "smithy.api#input": {}
}
```

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    },
    "com.amazonaws.licensemanager#CreateGrantVersionResponse": {
      "type": "structure",
      "members": {
        "GrantArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Grant ARN.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#GrantStatus",
          "traits": {
            "smithy.api#documentation": "<p>Grant status.</p>"
          }
        },
        "Version": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>New version of the grant.</p>"
          }
        }
      },
      "traits":
{
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#CreateLicense": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
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            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license configuration.</p>\n        <p>A license configuration is an abstraction of a customer license agreement that can be\n        consumed and enforced by License Manager. Components include specifications for the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n        Dedicated Instance, Dedicated Host, or
```

all of these), license affinity to host (how long a \n license must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension used to track the license inventory. ",
"smithy.api#required": {}
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows. \n \n \n \n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n <code>licenseAffinityToHost</code> |\n <code>maximumCores</code> |

<code>minimumCores</code>\n \n \n \n \n
<code>Instances</code> dimension: <code>allowedTenancy</code> | \n <code>maximumCores</code> |
<code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n
<code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n
\n
\n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n
<code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> |
<code>minimumSockets</code>\n \n \n \n \n
<code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n
<code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> |
<code>minimumVcpus</code>\n \n \n \n The unit for
<code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for
<code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n
<code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n
<code>True</code> and <code>False</code>. "
}
},

"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the license configuration. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is
uninstalled. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationResponse":
{
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",

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            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
    }
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
    "type": "structure",
    "members": {
        "ResourceArn": {

            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
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"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource you are converting the license type for. ",
"smithy.api#required": {}
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting from. \n\n For the structure of the source license, see Convert a license type using the CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
},
"DestinationLicenseContext":
{
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting to. For the structure of the destination license, see Convert a license type using the CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

"traits": {
"smithy.api#documentation": " The ID of the created license type conversion task. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
"type": "operation",

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        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "ReportGeneratorName":
{
                "target": "com.amazonaws.licensemanager#ReportGeneratorName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>",
                    "smithy.api#required": {}
                }
            },
            "Type": {
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"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types an be generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}

}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " Defines the type of license configuration the report generator tracks. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
},

"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the new report
generator. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseRequest": {
"type": "structure",
"members": {
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product
name. ",
"smithy.api#required": {}
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits": {

"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region for the license. ",
"smithy.api#required": {}

}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}

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            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation":
"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>"
                }
            },
            "Version": {
                 "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersion": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
        },
```

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a new version of the specified license. "
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target":
"com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}
},

"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits":
{
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for

workloads with offline\n usage. ",
"smithy.api#required": {}
}
},

"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New version of the license. "
}
},
"Status": {

"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
}
},
"traits": {
"smithy.api#output":
{}
}
},
"com.amazonaws.licensemanager#CreateToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},

{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a long-lived token. \n A refresh token is a JWT

token used to get an access token. With an access token,\n you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n call License Manager to manage the specified license. "
}
},
"com.amazonaws.licensemanager#CreateTokenRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits":
{
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n JWT token. ",
"smithy.api#required": {}
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n License Manager does not check whether the roles are in use. "
}
},
"ExpirationInDays": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Token expiration, in days, counted from token creation. The default is 365 days. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller to be included in the JWT token. The data is mapped\n to the amr claim of the JWT token. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Idempotency token, valid for 10 minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}

```
},
"com.amazonaws.licensemanager#CreateTokenResponse": {
    "type": "structure",
    "members": {
        "TokenId": {
            "target": "com.amazonaws.licensemanager#String",

            "traits": {
                "smithy.api#documentation": "<p>Token ID.</p>"
            }
        },
        "TokenType": {
            "target": "com.amazonaws.licensemanager#TokenType",
            "traits": {
                "smithy.api#documentation": "<p>Token type.</p>"
            }
        },
        "Token": {
            "target": "com.amazonaws.licensemanager#TokenString",
            "traits": {
                "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#DateTime": {
    "type": "timestamp"
},
"com.amazonaws.licensemanager#DatetimeRange": {
    "type": "structure",
    "members": {
        "Begin": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Start of the time range.</p>",
                "smithy.api#required": {}
            }
        },
        "End": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>End of the time range.</p>"
            }
        }
    },
```

```
        "traits": {
            "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes
the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
```

```
            }
          },
          "StatusReason": {
            "target": "com.amazonaws.licensemanager#StatusReasonMessage",
            "traits": {
              "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Current version of the
grant.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#DeleteGrantResponse": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation":
"<p>Grant version.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
```

"com.amazonaws.licensemanager#DeleteLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license configuration. \n You cannot delete a license configuration that is in use. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the license configuration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
"type": "operation",
"input": {

"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified report generator. \n This action deletes the report generator, which stops it from generating future reports.\n The action cannot be reversed. It has no effect on the previous reports from this generator. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to be deleted. ",
"smithy.api#required": {}
}
}

```
        },
        "traits": {

"smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>",
                    "smithy.api#required":
{}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseResponse": {
        "type": "structure",
        "members": {
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>"
                }
            },
            "DeletionDate": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
```

"smithy.api#documentation": " Date when the license is deleted. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},

{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified token. Must be called in the license home Region. "
}
},
"com.amazonaws.licensemanager#DeleteTokenRequest": {
"type": "structure",
"members": {

"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteTokenResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}

}
},
"com.amazonaws.licensemanager#DigitalSignatureMethod": {
"type": "enum",
"members": {
"JWT_PS384": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "JWT_PS384"
}
}
}
},
"com.amazonaws.licensemanager#Entitlement": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement resource. Use only
if the unit is None. "
}
},

"MaxCount": {
"target": "com.amazonaws.licensemanager#Long",
"traits": {
"smithy.api#documentation": " Maximum entitlement count. Use if the unit is not None. "
}
},
"Overage": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether overages are allowed. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementUnit",
"traits": {
"smithy.api#documentation": " Entitlement unit. ",
"smithy.api#required": {}
}
},
"AllowCheckIn": {
"target":
"com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether check-ins are allowed. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a resource entitled for use with a license. "
}
},
"com.amazonaws.licensemanager#EntitlementData": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement
data value. "
}
},

"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {
"smithy.api#documentation": " Entitlement data unit. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Data associated with an entitlement resource. "
}
},
"com.amazonaws.licensemanager#EntitlementDataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#EntitlementData"
}
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
"type": "enum",
"members": {
"COUNT": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Count"
}
},
"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"SECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Seconds"
}
},
"MICROSECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Microseconds"
}
},
"MILLISECONDS": {
"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "Milliseconds"
}
},
"BYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes"
}
},
"KILOBYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes"
}
},
"MEGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes"
}
},
"GIGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes"
}
},
"TERABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {

"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"

}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"
}
},
"KILOBYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes/Second"
}
},
"MEGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes/Second"
}
},
"GIGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes/Second"
}
},

"TERABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes/Second"
}
},
"BITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits/Second"
}
},
"KILOBITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits/Second"
}
},
"MEGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue":
"Megabits/Second"
}
},
"GIGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits/Second"
}
},
"TERABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits/Second"
}
},
"COUNT_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count/Second"
}
}
}
},
"com.amazonaws.licensemanager#EntitlementList": {
"type": "list",
"member": {

"target": "com.amazonaws.licensemanager#Entitlement"
}
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The entitlement is not allowed. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#EntitlementUnit": {
"type": "enum",
"members": {
"COUNT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count"
}
},
"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"SECONDS":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Seconds"
}
},
"MICROSECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Microseconds"
}
},
"MILLISECONDS": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Milliseconds"
}
},
"BYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes"
}
},
"KILOBYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes"
}
},
"MEGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes"
}
},
"GIGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes"
}
},
"TERABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"
}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target":
"smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"
}
},
"KILOBYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes/Second"
}
},
"MEGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes/Second"
}
},
"GIGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes/Second"
}
},
"TERABYTES_PER_SECOND": {

"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Terabytes/Second"
}
},
"BITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits/Second"
}
},
"KILOBITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits/Second"
}
},
"MEGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits/Second"
}
},
"GIGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits/Second"
}
},

"TERABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits/Second"
}
},
"COUNT_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count/Second"
}
}
}
},
"com.amazonaws.licensemanager#EntitlementUsage": {
"type": "structure",
"members": {

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            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ConsumedValue": {
                "target": "com.amazonaws.licensemanager#String",

           "traits": {
                    "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxCount": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
                }
            },
            "Unit": {
                "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementUsageList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
        },
```

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Extends the expiration date for license consumption. "
}
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",
"smithy.api#required": {}

}
},
"DryRun": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#default": false,
"smithy.api#documentation": " Checks whether you have the required permissions for the action, without actually making the request. Provides an error response if you do not have the required permissions. "
}
}
},
"traits": {

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            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>"
                }
            },

            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#FailedDependencyException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            },
            "ErrorCode": {
                "target": "com.amazonaws.licensemanager#String"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "FailedDependency",
                "httpResponseCode": 424
            },
            "smithy.api#documentation":
"<p>A dependency required to run the API is missing.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 424
        }
    },
    "com.amazonaws.licensemanager#Filter": {
        "type": "structure",
        "members": {
```

"Name": {
"target": "com.amazonaws.licensemanager#FilterName",
"traits": {
"smithy.api#documentation": " Name of the filter. Filter names are case-sensitive. "
}
},
"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " The value of the filter, which is case-sensitive. You can only specify one value for the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter name and value pair that is used to return more specific results from a\n describe operation. Filters can be used to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FilterLimitExceeded",
"httpResponseCode": 400
},
"smithy.api#documentation": " The request uses too many filters or too many filter values. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter"
}
},
"com.amazonaws.licensemanager#FilterName": {
"type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
"type": "string"

},
"com.amazonaws.licensemanager#FilterValues": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#FilterValue",
"traits": {
"smithy.api#xmlName": "item"
}
}
},
"com.amazonaws.licensemanager#Filters": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter",
"traits": {
"smithy.api#xmlName": "item"
}
}
},
"com.amazonaws.licensemanager#GetAccessToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": "<p>Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access

tokens\n are valid for one hour. "
}
},
"com.amazonaws.licensemanager#GetAccessTokenRequest": {
"type": "structure",
"members": {
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token, encoded as a JWT token. ",
"smithy.api#required": {}
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Token properties to validate against those present in the JWT token. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetAccessTokenResponse": {
"type": "structure",
"members": {
"AccessToken": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Temporary access token. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetGrantResponse"
},

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    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"

    },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
```

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},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
                "smithy.api#documentation": "<p>Grant details.</p>"
            }
        }
    },
    "traits": {

"smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"

 },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified license.</p>"
    }
```

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    },
    "com.amazonaws.licensemanager#GetLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license
configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits":
 {
            "smithy.api#input": {}
        }
    },
```

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"com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
    "type": "structure",
    "members": {
        "LicenseConfigurationId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
            }
        },
        "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
        },
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the license configuration.</p>"
             }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
                "smithy.api#documentation": "<p>Dimension for which the licenses are counted.</p>"
            }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules.</p>"
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",

           "traits": {
                "smithy.api#documentation": "<p>Number of available licenses.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
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"traits": {
"smithy.api#documentation": " Sets the number of available licenses as a hard limit. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses assigned to resources. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License configuration status. "
}

},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {

"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When
true, disassociates a resource when software is uninstalled. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified license type conversion task. "
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {

"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted to. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "

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                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
                }
            },

  "StartTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
                }
            },
            "LicenseConversionTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
                }
            },
            "EndTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator":
 {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

          },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
                    "smithy.api#required":
{}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {
            "ReportGenerator": {
                "target": "com.amazonaws.licensemanager#ReportGenerator",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
```

configurations. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseResponse": {
"type": "structure",
"members": {
"License": {
"target": "com.amazonaws.licensemanager#License",
"traits": {
"smithy.api#documentation": " License details. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},

"com.amazonaws.licensemanager#GetLicenseUsage": {
"type": "operation",
"input": {

"target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the usage of the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseUsageRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseUsageResponse": {
"type": "structure",
"members": {

```
            "LicenseUsage": {
                "target":
"com.amazonaws.licensemanager#LicenseUsage",
                "traits": {
                    "smithy.api#documentation": "<p>License usage details.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
```

"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Regional S3 bucket path for storing reports, license trail event data, discovery data,\n and so on. "

}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " SNS topic configured to receive notifications from License Manager. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Indicates whether Organizations is integrated with License Manager for\n cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether cross-account discovery is enabled. "
}

},
"LicenseManagerResourceShareArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource share. The License Manager management account \n provides member accounts with access to this share. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#Grant": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",

"smithy.api#required": {}
}
},
"GrantName": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"ParentArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Parent ARN. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. ",
"smithy.api#required": {}
}
},
"GranteePrincipalArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {

"smithy.api#documentation": " The grantee principal ARN. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {

"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. ",
"smithy.api#required": {}
}
},
"GrantedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Granted operations. ",
"smithy.api#required": {}
}
},
"Options": {
"target": "com.amazonaws.licensemanager#Options",
"traits": {
"smithy.api#documentation": " The options specified for the grant. "
}
}
},
"traits": {
"smithy.api#documentation":
" Describes a grant. "
}
},
"com.amazonaws.licensemanager#GrantList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Grant"
}
},
"com.amazonaws.licensemanager#GrantStatus": {
"type": "enum",
"members": {
"PENDING_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_WORKFLOW"
}
},
"PENDING_ACCEPT": {
"target": "smithy.api#Unit",

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            "traits": {
                "smithy.api#enumValue": "PENDING_ACCEPT"
            }
        },
        "REJECTED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "REJECTED"

        }
        },
        "ACTIVE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "ACTIVE"
            }
        },
        "FAILED_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        },
        "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DISABLED": {
            "target": "smithy.api#Unit",
            "traits":
{
                "smithy.api#enumValue": "DISABLED"
            }
        },
        "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
        }
```

```
        }
    },
    "com.amazonaws.licensemanager#GrantedLicense": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>"
                }

},
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product name.</p>"
                }
            },
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>"
                }
            },
            "Issuer": {
                "target": "com.amazonaws.licensemanager#IssuerDetails",
                "traits": {
                    "smithy.api#documentation": "<p>Granted license issuer.</p>"
                }
            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Home Region of the granted license.</p>"

             }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Granted license status.</p>"
                }
```

},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the granted license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Granted license beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Granted license metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Creation time of the granted license. "

}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Version of the granted license. "
}
},
"ReceivedMetadata": {
"target": "com.amazonaws.licensemanager#ReceivedMetadata",
"traits": {

"smithy.api#documentation": " Granted license received metadata. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a license that is granted to a grantee. "
}
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#GrantedLicense"
}
},
"com.amazonaws.licensemanager#ISO8601DateTime":
{
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
}
},
"com.amazonaws.licensemanager#Integer": {
"type": "integer"
},
"com.amazonaws.licensemanager#InvalidParameterValueException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidParameterValueProvided",
"httpResponseCode": 400
},
"smithy.api#documentation":
" One or more parameter values are not valid. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#InvalidResourceStateException": {

"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidResourceState",
"httpResponseCode": 400
},
"smithy.api#documentation": " License Manager cannot allocate a license to a resource because of its state. \n For example, you cannot allocate a license to an instance in the process of shutting\n down. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},

"com.amazonaws.licensemanager#InventoryFilter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the filter. ",
"smithy.api#required": {}
}
},
"Condition": {
"target": "com.amazonaws.licensemanager#InventoryFilterCondition",
"traits": {
"smithy.api#documentation": " Condition of the filter. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Value of the filter. "
}
}

},
"traits": {
"smithy.api#documentation": " An inventory filter. "
}
},

```
"com.amazonaws.licensemanager#InventoryFilterCondition": {
    "type": "enum",
    "members": {
        "EQUALS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EQUALS"
            }
        },
        "NOT_EQUALS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "NOT_EQUALS"
            }
        },
        "BEGINS_WITH": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "BEGINS_WITH"
            }
        },
        "CONTAINS": {
            "target": "smithy.api#Unit",
            "traits": {
                 "smithy.api#enumValue": "CONTAINS"
            }
        }
    }
},
"com.amazonaws.licensemanager#InventoryFilterList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#InventoryFilter"
    }
},
"com.amazonaws.licensemanager#Issuer": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Issuer name.</p>",
                "smithy.api#required": {}
            }
        },
        "SignKey": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage
of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about the issuer of a license. "
}
},
"com.amazonaws.licensemanager#IssuerDetails": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. "
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer key fingerprint. "
}
}
},
"traits": {
"smithy.api#documentation": " Details associated with the issuer of a license. "
}
},
"com.amazonaws.licensemanager#License": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {

"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " License name. "
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " License issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Home Region of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "

```
            }
        },
        "Entitlements": {

  "target": "com.amazonaws.licensemanager#EntitlementList",
            "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>"
            }
        },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
            }
        },
        "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
                "smithy.api#documentation": "<p>License metadata.</p>"
            }
        },
        "CreateTime": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>License
creation time.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
    "type": "structure",
    "members": {
        "LicenseConfigurationId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
            }
        },
```

"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension to use to track the license inventory. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Number of available licenses as a hard limit. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}

```
    },
    "ConsumedLicenses": {
        "target": "com.amazonaws.licensemanager#BoxLong",
        "traits": {
            "smithy.api#documentation": "<p>Number of licenses consumed. </p>"
        }
    },
    "Status": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Status of the license configuration.</p>"
        }
    },
    "OwnerAccountId": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Account ID of the license configuration's owner.</p>"

   }
    },
    "ConsumedLicenseSummaryList": {
        "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
        "traits": {
            "smithy.api#documentation": "<p>Summaries for licenses consumed by various resources.</p>"
        }
    },
    "ManagedResourceSummaryList": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
        "traits": {
            "smithy.api#documentation": "<p>Summaries for managed resources.</p>"
        }
    },
    "ProductInformationList": {
        "target": "com.amazonaws.licensemanager#ProductInformationList",
        "traits": {
            "smithy.api#documentation": "<p>Product information.</p>"
        }
    },
    "AutomatedDiscoveryInformation": {

        "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
        "traits": {
            "smithy.api#documentation": "<p>Automated discovery information.</p>"
        }
    }
},
"traits": {
    "smithy.api#documentation": "<p>A license configuration is an abstraction of a customer license
```

agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource consuming licenses. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " Time when the license configuration was associated with the resource. "
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an association with a license configuration. "
}
},

```
    "com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
        "type": "enum",
        "members":
{
            "AVAILABLE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "AVAILABLE"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DISABLED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits":
{
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceStatus": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Status of the resource.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was initially associated with the resource. "
}
},

"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
}
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfiguration"
}
},
"com.amazonaws.licensemanager#LicenseConversionContext": {

"type": "structure",
"members": {
"UsageOperation": {
"target": "com.amazonaws.licensemanager#UsageOperation",
"traits": {
"smithy.api#documentation": " The Usage operation value that corresponds to the license type you are converting your resource from. For more information about which platforms correspond to which usage operation values see Sample data: usage operation by platform\n \n "
}

```
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTask": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {

     "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the license type conversion task.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource associated
with the license type\n        conversion task.</p>"
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license type this conversion task converted
from.</p>"
                }
            },
            "DestinationLicenseContext": {
                "target":
 "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license type this conversion task converted
to.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
                "traits": {
                    "smithy.api#documentation": "<p>The status of the conversion task.</p>"
                }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
```

```
            }
        },
        "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation":
 "<p>The time the conversion task was started at.</p>"
            }
        },
        "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>The time the usage operation value of the resource was
changed.</p>"
            }
        },
        "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseConversionTaskId": {
    "type": "string",
    "traits": {

   "smithy.api#length": {
            "min": 0,
            "max": 50
        },
        "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
    }
},
"com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
    "type": "enum",
    "members": {
        "IN_PROGRESS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "IN_PROGRESS"
            }
        },
        "SUCCEEDED": {
```

```
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "SUCCEEDED"
            }
        },
        "FAILED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "FAILED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseConversionTasks":
{
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#LicenseConversionTask"
    }
},
"com.amazonaws.licensemanager#LicenseCountingType": {
    "type": "enum",
    "members": {
        "VCPU": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "vCPU"
            }
        },
        "INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Instance"
            }
        },
        "CORE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Core"
            }
        },
        "SOCKET": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Socket"
            }
        }
    }
```

```
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {
    "type": "enum",
    "members": {
        "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {

    "type": "structure",
    "members": {
        "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
        },
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Resource type.</p>"
            }
        },
        "ErrorMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Error message.</p>"
            }
        },
        "FailureTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
```

"traits": {

"smithy.api#documentation": " Failure time. "
}
},
"OperationName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the operation. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource. "
}
},
"OperationRequestedBy": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The requester is \"License Manager Automated Discovery\". "
}
},
"MetadataList": {

"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Reserved. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the failure of a license operation. "
}
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailure"
}
},
"com.amazonaws.licensemanager#LicenseSpecification": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",

"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseSpecification"
}
},
"com.amazonaws.licensemanager#LicenseStatus": {
"type": "enum",
"members": {
"AVAILABLE": {
"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "AVAILABLE"
}
},
"PENDING_AVAILABLE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_AVAILABLE"
}
},
"DEACTIVATED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DEACTIVATED"
}
},
"SUSPENDED": {
"target": "smithy.api#Unit",

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            "traits": {
                "smithy.api#enumValue": "SUSPENDED"
            }
        },
        "EXPIRED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EXPIRED"
            }
        },

    "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseUsage": {
    "type": "structure",
    "members": {
        "EntitlementUsages": {
            "target": "com.amazonaws.licensemanager#EntitlementUsageList",
            "traits": {
                "smithy.api#documentation": "<p>License entitlement usages.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes the entitlement usage associated with a license.</p>"

    }
},
"com.amazonaws.licensemanager#LicenseUsageException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
```

"aws.protocols#awsQueryError": {
"code": "LicenseUsageFailure",
"httpResponseCode": 412
},
"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the resource associations for the specified license configuration. \n Resource associations need not consume licenses from a license configuration. \n For example, an AMI or a stopped instance might not consume a license (depending on \n the license rules). "
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
"type": "structure",

"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results
to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationAssociations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license
configuration. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},

```
"com.amazonaws.licensemanager#ListDistributedGrants": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
         },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the grants distributed for the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
    "type": "structure",
    "members": {
        "GrantArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {

        "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
            }
        },
        "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
```

"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranteePrincipalARN</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",

"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configuration operations that failed. "
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name of the license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse": {
"type": "structure",
"members": {
"LicenseOperationFailureList": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
"traits": {
"smithy.api#documentation": " License configuration operations that failed. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
},

"output": {
"target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations
 for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next
 set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n                Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n                Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n                <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n                Logical operators are <code>EQUALS</code> |
```

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<code>NOT_EQUALS</code>.</p>\n
    </li>\n            <li>\n              <p>\n                <code>usagelimitExceeded</code> - A Boolean value that
indicates whether the available licenses have been exceeded. \n              Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n         </ul>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurations": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurations",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",

          "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasks": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
```

"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license type conversion tasks for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
"type": "structure",
"members": {
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " \n Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
"type": "structure",
"members": {
"LicenseConversionTasks": {
"target": "com.amazonaws.licensemanager#LicenseConversionTasks",
"traits": {
"smithy.api#documentation": " Information about the license configuration tasks for your

account. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target":
"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the report generators for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest":
{
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:
</p>\n        <ul>\n            <li>\n                <p>\n                <code>LicenseConfigurationArn</code>\n
</p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits":
{
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
            "ReportGenerators": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorList",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

"smithy.api#documentation": " Token for the next set of results. "
}

}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Describes the license configurations for the specified resource. "
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a resource that has an associated license configuration. ",
"smithy.api#required": {}
}

```
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {

    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {
        "LicenseSpecifications": {
            "target": "com.amazonaws.licensemanager#LicenseSpecifications",
            "traits": {
                "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
            }
        },
        "NextToken": {
             "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
```

```
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
```

```
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
              "smithy.api#documentation": "<p>License details.</p>"
            }
          },

"NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenses": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicensesRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicensesResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
           },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
```

"traits": {
"smithy.api#documentation": " Lists the licenses for your account. "
}
},
"com.amazonaws.licensemanager#ListLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>Status</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#LicenseList",
"traits": {

"smithy.api#documentation": " License details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists grants that are received. Received grants are grants created while

specifying the\n recipient as this Amazon Web Services account, your organization, or an organizational unit\n (OU) to which this member account belongs. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target":
"com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants received for all accounts in the organization. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the received license. ",
"smithy.api#required": {}

```
            }
          },
          "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n
    <ul>\n        <li>\n        <p>\n        <code>ParentArn</code>\n        </p>\n        </li>\n
<li>\n        <p>\n        <code>GranteePrincipalArn</code>\n        </p>\n        </li>\n        </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse":
 {
        "type": "structure",
        "members": {
          "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
            "traits": {
              "smithy.api#documentation": "<p>Lists the grants the organization has received.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
```

```
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
      "type": "structure",
      "members": {
        "GrantArns": {
          "target": "com.amazonaws.licensemanager#ArnList",
           "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
          }
        },
        "Filters": {
          "target": "com.amazonaws.licensemanager#FilterList",
          "traits": {
            "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n            </p>\n
      </li>\n          <li>\n            <p>\n              <code>LicenseIssuerName</code>\n            </p>\n
</li>\n          <li>\n            <p>\n              <code>LicenseArn</code>\n            </p>\n          </li>\n
<li>\n            <p>\n              <code>GrantStatus</code>\n            </p>\n          </li>\n          <li>\n
<p>\n
      <code>GranterAccountId</code>\n            </p>\n          </li>\n        </ul>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#MaxSize100",
          "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
      "type": "structure",
      "members": {
        "Grants": {
          "target": "com.amazonaws.licensemanager#GrantList",
           "traits": {
            "smithy.api#documentation": "<p>Received grant details.</p>"
          }
        },
```

```
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
         },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists received licenses.</p>"
    }
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
```

{
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{

"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses received for all accounts in the organization. "
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n
\n \n "
}
},

```
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
    "type": "structure",
    "members": {
        "Licenses": {
            "target": "com.amazonaws.licensemanager#GrantedLicenseList",
             "traits": {
                "smithy.api#documentation": "<p>Lists the licenses the organization has received.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
    "type": "structure",
    "members": {
        "LicenseArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
            }
        },
```

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>IssuerName</code>\n \n \n \n \n <code>Beneficiary</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#GrantedLicenseList",
"traits": {
"smithy.api#documentation": " Received license details. "
}
},

"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}

```
},
"com.amazonaws.licensemanager#ListResourceInventory": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#FailedDependencyException"
        },
        {
            "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
    }
},
"com.amazonaws.licensemanager#ListResourceInventoryRequest": {
    "type": "structure",
    "members": {
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#InventoryFilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n
\n \n \n <code>application_name</code> - The name of the application. \n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n
\n \n \n <code>license_included</code> - The type of license included. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n Possible values are <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n
\n <code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n \n \n \n
<code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n
<code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account). \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListResourceInventoryResponse": {
"type": "structure",
"members": {
"ResourceInventoryList": {
"target": "com.amazonaws.licensemanager#ResourceInventoryList",
"traits": {
"smithy.api#documentation": " Information about the resources. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {

"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListTagsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the tags for the specified license configuration. "
}
},
"com.amazonaws.licensemanager#ListTagsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",

"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}

```
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the tags.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors":
[
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
```

```
            "TokenIds": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {

                  "smithy.api#documentation": "<p>Token IDs.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
    <ul>\n            <li>\n              <p>\n                <code>LicenseArns</code>\n              </p>\n            </li>\n
</ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation":
 "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokensResponse": {
        "type": "structure",
        "members": {
            "Tokens": {
                "target": "com.amazonaws.licensemanager#TokenList",
                "traits": {
                    "smithy.api#documentation": "<p>Received token details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
```

```
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
             {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying
license\n        consumption details by resource at a selected point in time. Use this action to audit the\n        current
license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
```

"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>resourceArn</code> - The ARN of the license configuration resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceAccount</code> - The ID of the account that owns the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
"type": "structure",
"members": {

"LicenseConfigurationUsageList": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#Location": {
"type": "string"
},
"com.amazonaws.licensemanager#Long": {
"type": "long"
},
"com.amazonaws.licensemanager#ManagedResourceSummary": {
"type": "structure",
"members": {
"ResourceType":
{
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of resource associated with a license. "
}
},
"AssociationCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of resources associated with licenses. "
}
}
},
"traits": {
"smithy.api#documentation": " Summary information about a managed resource. "
}
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummary"
}
},
"com.amazonaws.licensemanager#MaxSize100": {

"type": "integer",
"traits": {
"smithy.api#range": {
"min": 1,
"max": 100

```
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The key name.</p>"
            }
        },

"Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The value.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes key/value pairs.</p>"
    }
},
"com.amazonaws.licensemanager#MetadataList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Metadata"
    }
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
    "type": "structure",
    "members": {
```

"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#Options": {
"type": "structure",
"members": {
"ActivationOverrideBehavior": {
"target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
"traits": {
"smithy.api#documentation": " An activation option for your grant that determines the behavior of activating a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter. \n \n \n As a license administrator, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant. \n \n \n As a grantor, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your organization. \n \n \n As a grantee, if the grantor creating the distributed grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n are activating the grant. \n \n \n <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n Use this value to activate a grant without replacing any member accounts\n active grants for the same product. \n </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n Use this value to activate a grant and disable other active grants in any\n member accounts
for the same product. This action will also replace their\n previously activated grants with this activated grant. \n </dd>\n </dl>"
}
}
},
"traits": {
"smithy.api#documentation": " The options you can specify when you create a new version of a grant, such as activation\n override behavior. For more information, see Granted licenses in License Manager in the License Manager User Guide. "
}
},
"com.amazonaws.licensemanager#OrganizationConfiguration": {
"type": "structure",
"members": {
"EnableIntegration": {
"target": "com.amazonaws.licensemanager#Boolean",

"traits": {
"smithy.api#default": false,
"smithy.api#documentation":
" Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Resource type. The
possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a
<code>ProductInformationFilterComparator</code> which is a logical operator, a
<code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a
<code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values
for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for
<code>ProductInformationFilterComparator</code>. \n The following filters and are supported when
the resource type \n is <code>SSM_MANAGED</code>: \n
\n \n \n <code>Application Name</code> - The name of the
application.\n Logical operator is <code>EQUALS</code>. \n \n \n
\n <code>Application Publisher</code> - The publisher of the application.\n Logical

operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n Logical operator is <code>EQUALS</code>. \n
\n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n <code>diagnostic pack sqlt</code> | \n
<code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n
\n ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information for a license configuration. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
"type": "structure",
"members": {
"ProductInformationFilterName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Filter name. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterValue": {
"target": "com.amazonaws.licensemanager#StringList",

```
        "traits": {
            "smithy.api#documentation": "<p>Filter value.</p>"
        }
      },
      "ProductInformationFilterComparator": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Logical operator.</p>",
            "smithy.api#required": {}
        }
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>Describes product information filters.</p>"
    }
  },
  "com.amazonaws.licensemanager#ProductInformationFilterList": {
    "type": "list",
    "member": {
      "target": "com.amazonaws.licensemanager#ProductInformationFilter"
    }
  },
  "com.amazonaws.licensemanager#ProductInformationList": {
    "type": "list",
    "member": {
      "target": "com.amazonaws.licensemanager#ProductInformation"
     }
  },
  "com.amazonaws.licensemanager#ProvisionalConfiguration": {
    "type": "structure",
    "members": {
      "MaxTimeToLiveInMinutes": {
        "target": "com.amazonaws.licensemanager#BoxInteger",
        "traits": {
            "smithy.api#documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>",
            "smithy.api#required": {}
        }
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
    }
  },
  "com.amazonaws.licensemanager#RateLimitExceededException": {
    "type": "structure",
    "members": {
      "Message": {
        "target": "com.amazonaws.licensemanager#Message"
```

```
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "RateLimitExceeded",
                "httpResponseCode": 429
            },
            "smithy.api#documentation": "<p>Too many requests have been submitted. Try again after a brief
wait.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 429
        }
    },
    "com.amazonaws.licensemanager#ReceivedMetadata": {
        "type": "structure",
        "members": {
            "ReceivedStatus": {
                "target": "com.amazonaws.licensemanager#ReceivedStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Received status.</p>"
                }
            },
            "ReceivedStatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>Received
status reason.</p>"
                }
            },
            "AllowedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed operations.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Metadata associated with received licenses and grants.</p>"
        }
    },
    "com.amazonaws.licensemanager#ReceivedStatus": {
        "type": "enum",
        "members": {
            "PENDING_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_WORKFLOW"
                }
```

```
            },
            "PENDING_ACCEPT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue":
"PENDING_ACCEPT"
                }
            },
            "REJECTED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "REJECTED"
                }
            },
            "ACTIVE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "ACTIVE"
                }
            },
            "FAILED_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "FAILED_WORKFLOW"
                }
            },
            "DELETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DELETED"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                 "traits": {
                    "smithy.api#enumValue": "DISABLED"
                }
            },
            "WORKFLOW_COMPLETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "WORKFLOW_COMPLETED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#RedirectException": {
        "type": "structure",
```

```
        "members": {
          "Location": {
            "target": "com.amazonaws.licensemanager#Location",
            "traits": {
              "smithy.api#httpHeader": "Location"
            }
          },
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
           "smithy.api#error": "client",
          "smithy.api#httpError": 308
        }
      },
      "com.amazonaws.licensemanager#RejectGrant": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#RejectGrantRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#RejectGrantResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
```

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}

}
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#RenewType":
```

{
"type": "enum",
"members": {
"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"WEEKLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Weekly"
}
},
"MONTHLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Monthly"
}
}
}
},
"com.amazonaws.licensemanager#ReportContext": {
"type": "structure",
"members": {
"licenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details of the license configuration that this generator reports on. "
}
},
"com.amazonaws.licensemanager#ReportFrequency": {
"type": "structure",
"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "

```
                }
            },
            "period": {
                "target": "com.amazonaws.licensemanager#ReportFrequencyType",

                "traits": {
                    "smithy.api#documentation": "<p>Time period between each report. The period can be daily, weekly,
or monthly.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
        }
    },
    "com.amazonaws.licensemanager#ReportFrequencyType": {
        "type": "enum",
        "members": {
            "DAY": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DAY"
                }
            },
            "WEEK": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "WEEK"
                }
            },
            "MONTH": {
                "target": "smithy.api#Unit",
                "traits":
{
                    "smithy.api#enumValue": "MONTH"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ReportGenerator": {
        "type": "structure",
        "members": {
            "ReportGeneratorName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>"
                }
            },
```

"ReportType": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports that are generated. "
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " License configuration type for this generator. "
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. "
}
},
"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}
},
"LastRunFailureReason": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Failure message for the last report generation attempt. "
}
},
"LastReportGenerationTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the last report was generated at. "
}
},
"ReportCreatorAccount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Web Services account ID used to create the report

generator. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the report was created. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags associated with the report generator. "
}

}
},
"traits": {
"smithy.api#documentation": " Describe the details of a report generator. "
}
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportGenerator"
}
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
}

```
        }
    },
    "com.amazonaws.licensemanager#ReportType": {
        "type": "enum",
        "members": {
            "LICENSE_CONFIGURATION_SUMMARY_REPORT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "LicenseConfigurationSummaryReport"
                }

    },
            "LICENSE_CONFIGURATION_USAGE_REPORT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "LicenseConfigurationUsageReport"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ReportTypeList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ReportType"
        }
    },
    "com.amazonaws.licensemanager#ResourceInventory": {
        "type": "structure",
        "members": {
            "ResourceId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits":
{
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
```

"Platform": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Platform of the resource. "
}
},
"PlatformVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Platform version of the resource in the inventory. "
}
},
"ResourceOwningAccountId":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a resource. "
}
},
"com.amazonaws.licensemanager#ResourceInventoryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ResourceInventory"
}
},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ResourceLimitExceeded",

"httpResponseCode": 400
},
"smithy.api#documentation": " Your resource limits have been exceeded. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},

"com.amazonaws.licensemanager#ResourceNotFoundException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidResource.NotFound",
"httpResponseCode": 400
},
"smithy.api#documentation": " The resource cannot be found. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#ResourceType": {
"type": "enum",
"members": {
"EC2_INSTANCE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "EC2_INSTANCE"
}
},
"EC2_HOST": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "EC2_HOST"
}
},
"EC2_AMI": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "EC2_AMI"
}
},
"RDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "RDS"
}
},
"SYSTEMS_MANAGER_MANAGED_INSTANCE": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
}
}
}
},
"com.amazonaws.licensemanager#S3Location": {
"type": "structure",
"members": {
"bucket": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the S3 bucket reports are published to. "
}
},
"keyPrefix": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Prefix of the S3 bucket reports are published to. "
}
}
},
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InternalError",
"httpResponseCode": 500
},
"smithy.api#documentation": " The server experienced an internal error. Try again. ",
"smithy.api#error": "server",
"smithy.api#httpError": 500
}
},
"com.amazonaws.licensemanager#SignedToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 4096

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            }
        }
    },
    "com.amazonaws.licensemanager#StatusReasonMessage": {
        "type": "string",
        "traits":
{
            "smithy.api#length": {
                "min": 0,
                "max": 400
            },
            "smithy.api#pattern": "^[\\s\\S]+$"
        }
    },
    "com.amazonaws.licensemanager#String": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#Tag": {
        "type": "structure",
        "members": {
            "Key": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag key.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Tag value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
```

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        }
    },
    "com.amazonaws.licensemanager#TagList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Tag"
        }
    },
    "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
            {
                "target":
"com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits":
{
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
```

```
            }
        },
        "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
                "smithy.api#documentation": "<p>One or more tags.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#TagResourceResponse": {
    "type": "structure",
    "members": {},
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#TokenData": {
    "type": "structure",
    "members": {
        "TokenId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token ID.</p>"
            }
        },
        "TokenType": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>"
            }
        },
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "ExpirationTime": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Token expiration time, in ISO8601-UTC
```

format. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller. "
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the roles included in the token. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. "
}
}
},
"traits": {

"smithy.api#documentation": " Describes a token. "
}
},
"com.amazonaws.licensemanager#TokenList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#TokenData"
}
},
"com.amazonaws.licensemanager#TokenString": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 4096
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#TokenType": {
"type": "enum",
"members": {

"REFRESH_TOKEN": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REFRESH_TOKEN"
}
}
}
},
"com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException":
{
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The digital signature method is unsupported. Try your request
again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#UntagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UntagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],

"traits": {
"smithy.api#documentation": " Removes the specified tags from the specified license configuration. "
}
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",
"traits": {
"smithy.api#documentation": " Keys identifying the tags to remove. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

```
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseConfigurationStatus": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
                "traits": {
                    "smithy.api#documentation": "<p>New status of the license configuration.</p>"
                }
            },
            "LicenseRules": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {

    "smithy.api#documentation": "<p>New license rule. The only rule that you can add after you create a license\n
    configuration is licenseAffinityToHost.</p>"
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
```

"smithy.api#documentation": " New number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}

```
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates a report generator.</p>\n        <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to
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update. ",
"smithy.api#required": {}
}
},
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation":
" Type of reports to generate. The following report types are supported: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " The report context. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits":
{
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

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                "smithy.api#documentation": "<p>Description of the report generator.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
    "type": "structure",
    "members": {},
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },

        {
            "target": "com.amazonaws.licensemanager#InvalidResourceStateException"
        },
        {
            "target": "com.amazonaws.licensemanager#LicenseUsageException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
```

"traits": {
"smithy.api#documentation": " Adds or removes the specified license configurations for the specified Amazon Web Services resource. \n You can update the license specifications of AMIs, instances, and hosts.\n You cannot update the license specifications for launch templates and CloudFormation templates, \n as they send license configurations to the operation that creates the resource. "
}
},

"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon Web Services resource. ",
"smithy.api#required": {}
}
},
"AddLicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " ARNs of the license configurations to add. "
}
},
"RemoveLicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " ARNs of the license configurations to remove. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"

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        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where the License
 Manager information is stored.</p>"
                }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Enables integration with Organizations for cross-account discovery.</p>"
```

```
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Activates cross-account discovery.</p>"

        }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#UsageOperation": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            }
        }
    },
    "com.amazonaws.licensemanager#ValidationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",

    "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    }
  }
}
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version
 of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {
```

```
 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack,
 options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if
 err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
```

```
  Region:       region,
  ServiceID:    ServiceID,
  OperationName: "DeleteLicense",
 }
}
```

1.3975 pgservicefile 0.0.0-20200714003250-2b9c44734f2b

1.3975.1 Available under license :

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1.3976 aws-sdk-go-v2-config 1.26.6

1.3976.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil,
 err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
```

```
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err !=
 nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
```

```
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
```

AWS SDK for Go

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```
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
     - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
       with:
         python-version: ${{ matrix.python-version }}
     # ScanCode
     - name: Self-configure scancode
       working-directory: ./scancode-toolkit
```

```
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string
```

```
 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
```

```
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return
 err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}
```

```
func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckInLicense",
 }
}
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
      "type": "integer"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
      "type": "long"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The type of name to filter by.</p>"
          }
        },
        "Values": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
          "traits": {
            "smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
          }
        },
        "Operator": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
           "traits": {
            "smithy.api#documentation": "<p>An operator for filtering results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>A filter object that is used to return more specific results from a describe
operation.\n      Filters can be used to match a set of resources by specific criteria.</p>"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
      "type": "list",
      "member": {
```

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
},
"output": {

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions service settings. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/GetServiceSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest":
{
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},
"LinuxSubscriptionsDiscoverySettings": {

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " Lists the settings defined for Linux subscriptions discovery. The settings include if\n Organizations integration has been enabled, and
which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays
the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
"type": "structure",
"members": {
"AmiId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The AMI ID used to launch the instance. "
}
},
"InstanceID": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The instance ID of the resource. "
}
},
"InstanceType": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " The instance type of the resource. "
}

},
"AccountID": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The account ID which owns the instance. "
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of the instance. "
}
},
"Region": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The Region the instance is running in. "
}
},
"UsageOperation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The usage operation of the instance. For more information, see For more information, see\n Usage\n operation values in the License Manager User Guide. "
}
},
"ProductCode": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
"traits": {
"smithy.api#documentation": " The product code for the instance. For more information, see Usage\n operation values in the License Manager User Guide . "
}
},
"LastUpdatedTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The time in which the last discovery updated the instance details. "
}
},
"SubscriptionName": {
"target": "smithy.api#String",

```
                "traits": {
                    "smithy.api#documentation": "<p>The name of the subscription being used by the instance.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details discovered information about a running instance using Linux
subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
             }
        },
        "traits": {
            "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
            "smithy.api#error": "server"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
        "type": "service",
        "version": "2018-05-10",
        "operations": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
            }
        ],

    "traits": {
            "aws.api#service": {
```

"sdkId": "License Manager Linux Subscriptions",
"arnNamespace": "license-manager-linux-subscriptions",
"cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
},
"aws.auth#sigv4": {
"name": "license-manager-linux-subscriptions"
},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",

"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"
]
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"smithy.api#documentation": " With License Manager, you can discover and track your commercial Linux subscriptions on running\n Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager Linux Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,

"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
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"rules": [
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"fn": "isSet",
"argv": [
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"ref": "Endpoint"
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"argv": [
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"ref": "UseFIPS"
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"argv": [
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"ref": "Region"
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"argv": [
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"ref": "Region"
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"assign": "PartitionResult"
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"rules": [
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"fn": "booleanEquals",
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"ref": "UseFIPS"
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"ref": "UseDualStack"
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            },
            "supportsFIPS"
          ]

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          "argv": [
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            },

       "supportsDualStack"
          ]
        }
      ]
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      "rules": [
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"conditions": [],
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fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
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"properties": {},
"headers": {}
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"type": "endpoint"
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"type": "error"
}
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"conditions": [
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"fn": "booleanEquals",
"argv": [
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"ref": "UseFIPS"
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"argv": [
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{
"fn": "getAttr",
"argv": [
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"ref": "PartitionResult"
},
"supportsFIPS"
]

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                    }
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            }
        ],
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                "type": "tree",
                "rules": [
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fips.{Region}.{PartitionResult#dnsSuffix}",
                            "properties": {},
                            "headers": {}

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                "fn": "booleanEquals",
                "argv": [
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                              "argv": [
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                          "rules": [
                            {
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subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                "properties": {},
                                "headers": {}
                              },
                              "type": "endpoint"
                            }
                          ]
                        }
                      ]
                    },

        {
                      "conditions": [],
                      "error": "DualStack is enabled but this partition does not support DualStack",
                      "type": "error"
                    }
                  ]
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                      "type": "tree",
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"https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
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                            "headers": {}
                          },
                          "type": "endpoint"
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                      ]
                    }
                  ]
                }
              ]
            },
            {
              "conditions": [],
              "error": "Invalid Configuration: Missing Region",
              "type": "error"
            }
          ]
        }
      ]
    },
    "smithy.rules#endpointTests": {
      "testCases": [
        {
          "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
            }
          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": true,
            "UseDualStack": true
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        {
          "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
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"endpoint": {
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"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
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"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
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"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
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"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
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"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
}
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"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {

"url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true

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        }
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      {
        "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
        "expect": {
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            "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
          }
        },
        "params": {
          "Region": "cn-north-1",
          "UseFIPS": true,
           "UseDualStack": false
        }
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        "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
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          "UseFIPS": false,
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            "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
          }
        },
        "params": {
          "Region": "cn-north-1",
          "UseFIPS": false,
          "UseDualStack": false
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        "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
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          "UseDualStack": true
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        "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
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            "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
          }
        },
        "params": {
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          "UseFIPS": false,
           "UseDualStack": false
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"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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"UseFIPS": true,
"UseDualStack": true
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"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect": {
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"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
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"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
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"params": {
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"UseFIPS": false,
"UseDualStack": true
}
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"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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"params": {

"Region": "us-isob-east-1",
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"UseDualStack": true
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
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}
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"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
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"documentation": "For region us-isob-east-1 with FIPS disabled
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"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
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"UseDualStack": true
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"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}
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"params": {
"Region": "us-isob-east-1",

"UseFIPS": false,
"UseDualStack": false
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"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {
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"url": "https://example.com"
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"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
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"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",

"expect": {
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"params": {
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
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"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
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"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,

"Endpoint": "https://example.com"
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"documentation": "For custom endpoint with fips disabled and dualstack enabled",

"expect": {
"error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
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"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true,
"Endpoint": "https://example.com"
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"documentation": "Missing region",
"expect": {
"error": "Invalid Configuration: Missing Region"
}

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"version": "1.0"
}
}
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"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
"type": "string",
"traits": {
"smithy.api#enum": [
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"name": "Enabled",
"value": "Enabled",
"documentation": "Enabled LinuxSubscriptionsDiscovery"
},
{
"name": "Disabled",
"value": "Disabled",
"documentation": "Disabled LinuxSubscriptionsDiscovery"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
"type": "structure",
"members": {
"SourceRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Regions in which to discover data for Linux subscriptions. ",
"smithy.api#required": {}

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                }
            },
            "OrganizationIntegration": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
                "traits": {
                    "smithy.api#documentation": "<p>Details if you have enabled resource discovery across your
accounts in Organizations.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Lists the settings defined for discovering Linux subscriptions.</p>"
        }
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    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
        "type":
 "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the running Amazon EC2 instances that were discovered with
commercial Linux\n      subscriptions.</p>",
            "smithy.api#http": {

       "code": 200,
                "method": "POST",
                "uri": "/subscription/ListLinuxSubscriptionInstances"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
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"pageSize": "MaxResults",
"items": "Instances"
}
}
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"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n match, or don't match a certain Amazon Machine Image (AMI) ID. \n The valid names for this filter are: \n \n \n \n <code>AmiID</code>\n \n \n \n \n <code>InstanceID</code>\n \n \n \n \n <code>AccountID</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Region</code>\n \n \n \n \n <code>UsageOperation</code>\n \n \n \n \n <code>ProductCode</code>\n \n \n \n \n <code>InstanceType</code>\n \n \n \n The valid Operators for this filter are: \n \n \n \n <code>contains</code>\n \n \n \n \n <code>equals</code>\n \n \n \n \n <code>Notequal</code>\n \n \n "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "

}
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"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. ",
"smithy.api#length": {
"min": 1,
"max": 16384
}
}
}
},
"traits": {
"smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if

parameters in request increases."
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
        "type": "structure",
        "members": {
            "Instances": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
                "traits": {
                    "smithy.api#documentation":
 " An array that contains instance objects. "
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": " Token for the next set of results. "
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
             },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": " Lists the Linux subscriptions that have been discovered. If you have
linked your\n organization, the returned results will include data aggregated across your accounts in\n
Organizations. ",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/ListLinuxSubscriptions"

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            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
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                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "Subscriptions"
            }

        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
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        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by the name of\n
 <code>Subscription</code> with an optional operator to see subscriptions that match,\n      partially match, or don't
match a certain subscription's name.</p>\n         <p>The valid names for this filter are:</p>\n         <ul>\n
<li>\n              <p>\n                  <code>Subscription</code>\n              </p>\n           </li>\n         </ul>\n
<p>The valid Operators for this filter are:</p>\n
        <ul>\n           <li>\n              <p>\n                  <code>contains</code>\n              </p>\n           </li>\n
<li>\n              <p>\n                  <code>equals</code>\n              </p>\n           </li>\n           <li>\n              <p>\n
             <code>Notequal</code>\n              </p>\n           </li>\n         </ul>"
                }
            },
            "MaxResults": {
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                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
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            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>",
                    "smithy.api#length": {

                        "min": 1,
                        "max": 16384
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                }
            }
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        "traits": {
            "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
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parameters in request increases."
        }
    },
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        "members": {
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                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
                "traits": {
                    "smithy.api#documentation": " An array that contains subscription objects. "
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": " Token for
the next set of results. "
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
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                    "name": "EQUAL",
                    "value": "Equal",
                    "documentation": "Equal operator"
                },
                {
                    "name": "NOT_EQUAL",
                    "value": "NotEqual",
                    "documentation": "Not equal operator"
                },
                {
                    "name": "CONTAINS",
                    "value": "Contains",
                    "documentation": "Contains operator"
                }
            ],
            "smithy.api#length": {
                "min": 1,
                "max": 20
            }
        }
    },

"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
    "type": "string",
    "traits": {
      "smithy.api#enum": [
        {
          "name": "Enabled",
          "value": "Enabled",
          "documentation": "Enabled OrganizationIntegration"
        },
        {
          "name": "Disabled",
          "value": "Disabled",
          "documentation": "Disabled OrganizationIntegration"
        }
      ]
    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
    "type": "list",
    "member": {
      "target": "smithy.api#String"
    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
    "type": "string",
    "traits": {
      "smithy.api#enum": [

{
          "name": "InProgress",
          "value": "InProgress",
          "documentation": "InProgress status"
        },
        {
          "name": "Completed",
          "value": "Completed",
          "documentation": "Completed status"
        },
        {
          "name": "Successful",
          "value": "Successful",
          "documentation": "Successful status"
        },
        {
          "name": "Failed",
          "value": "Failed",
          "documentation": "Failed status"
        }

```
            ]
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
          "type": "list",
          "member": {
            "target": "smithy.api#String",
            "traits":
{
              "smithy.api#length": {
                "min": 1,
                "max": 100
              }
            }
          },
          "traits": {
            "smithy.api#length": {
              "min": 1,
              "max": 100
            },
            "smithy.api#uniqueItems": {}
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
          "type": "map",
          "key": {
            "target": "smithy.api#String"
          },
          "value": {
            "target": "smithy.api#String"
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
          "type": "structure",
          "members": {
            "Name": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The name of the subscription.</p>"

          }
            },
            "Type": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The type of subscription. The type can be subscription-included
with Amazon EC2, Bring Your Own\n      Subscription model (BYOS), or from the Amazon Web Services
Marketplace. Certain subscriptions may use licensing from the\n      Amazon Web Services Marketplace as well as
```

OS licensing from Amazon EC2 or BYOS. "
}
},
"InstanceCount": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
"traits": {
"smithy.api#documentation": " The total amount of running instances using this subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " An object which details a discovered Linux subscription. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request was denied due to request throttling. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
},

"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"

```
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates the service settings for Linux subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/UpdateServiceSettings"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest":
{
        "type": "structure",
        "members": {
            "LinuxSubscriptionsDiscovery": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
                "traits": {
                    "smithy.api#documentation": "<p>Describes if the discovery of Linux subscriptions is enabled.</p>",
                    "smithy.api#required": {}
                }
            },
            "LinuxSubscriptionsDiscoverySettings": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
                "traits": {
                    "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The
settings include if Organizations\n      integration has been enabled, and which Regions data will be aggregated
from.</p>",

  "smithy.api#required": {}
                }
            },
            "AllowUpdate": {
                "target": "smithy.api#Boolean",
                "traits": {
                    "smithy.api#documentation": "<p>Describes if updates are allowed to the service settings for Linux
subscriptions. If you\n      allow updates, you can aggregate Linux subscription data in more than one home
Region.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
        "type": "structure",
```

"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},

"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The provided input is not valid. Try your request again. ",

```
            "smithy.api#error": "client"
          }
        }
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - Beneficiary
 //   - ProductSKU
 //   - Fingerprint
 //
   - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
```

```
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if
 err := addProtocolFinalizerMiddlewares(stack, options, "ListLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
```

```
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
```

```
 return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
     ServiceID,
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 //
 This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack,
 options, "DisassociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
```

```
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
```

```
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}
```

```
type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource
 Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
```

```
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil
 {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier
 that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}
```

```
type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
```

```
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return
err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide
 to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer
```

```
 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity
 *types.DatetimeRange

 // Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
```

```
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
 return fmt.Errorf("add
protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
```

```
 err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName:
 "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return
 err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack);
 err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "GetLicense",
 }
}
```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
   - ProductSKU
 //   - Status
 //   - Fingerprint
 //   - IssuerName
 //   - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
```

```
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack);
err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
 }
}
```

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```
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
        "smithy.api#error": "client"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
      "type": "structure",
      "members": {
        "DirectoryId": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation":
"<p>Details about an Active Directory identity provider.</p>"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
```

"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Associates the user to an EC2 instance to utilize user-based subscriptions. \n <note>\n Your estimated bill for charges on the number of users and related costs will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more information, see Viewing your\n monthly charges in the Amazon Web Services Billing User Guide. \n </note>",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/AssociateUser"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the

EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " The identity provider of the user. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
"type": "integer"
},
"com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request couldn't be completed because it conflicted with the current state of the\n resource. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider":

```
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deregisters the identity provider from providing user-based
subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/DeregisterIdentityProvider"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
```

```
            "traits": {
              "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "Product": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
        "type": "structure",
        "members": {
          "IdentityProviderSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
            "traits": {
              "smithy.api#documentation":
"<p>Metadata that describes the results of an identity provider operation.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
          },
```

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Disassociates the user from an EC2 instance providing user-based
subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/DisassociateUser"
            },
            "smithy.api#idempotent": {}
        }

    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation":
 "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
```

"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
}
},

"com.amazonaws.licensemanagerusersubscriptions#Filter": {
"type": "structure",
"members": {
"Attribute": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of an attribute to use as a filter. "
}
},
"Operation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of search (For example, eq, geq, leq) "
}
},
"Value": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Value of the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter name and value pair that is used
to return more specific results from a describe\n operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n attributes, or IDs. "
}

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#FilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
        "type": "union",
        "members": {
            "ActiveDirectoryIdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that details an Active Directory identity provider.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
 "<p>Details about an identity provider.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Settings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
                "traits": {
                    "smithy.api#documentation": "<p>An object that details the registered identity providers product
related configuration\n      settings such as the subnets to provision VPC endpoints.</p>",
                    "smithy.api#required":
 {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
```

"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of an identity provider. ",
"smithy.api#required": {}
}
},
"FailureMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The failure message associated with an identity provider. "
}
}
},
"traits": {
"smithy.api#documentation":
" Describes an identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
"type": "structure",
"members": {
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based
subscriptions. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status
of an EC2 instance resource. ",
"smithy.api#required": {}
}
},
"Products": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
"traits": {
"smithy.api#documentation": " A list of provided user-based subscription products. ",

"smithy.api#required": {}
}
},
"LastStatusCheckDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date of the last status check. "
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for an EC2 instance. "
}

}
},
"traits": {
"smithy.api#documentation": " Describes an EC2 instance providing user-based subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits":
{
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based
subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",

```
            "traits": {
                "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                "smithy.api#required": {}
            }
        },
        "Status": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The status of a user associated with an EC2 instance.</p>",
                "smithy.api#required": {}
            }
        },
        "StatusMessage": {
            "target": "smithy.api#String",
             "traits": {
                "smithy.api#documentation": "<p>The status message for users of an EC2 instance.</p>"
            }
        },
        "Domain": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
        },
        "AssociationDate": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The date a user was associated with an EC2 instance.</p>"
            }
        },
        "DisassociationDate": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The date a user was disassociated from an EC2 instance.</p>"
            }
        }

    },
        "traits": {
            "smithy.api#documentation": "<p>Describes users of an EC2 instance providing user-based
subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
        }
```

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
            "smithy.api#error": "server"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
        "type": "service",

     "version": "2018-05-10",
        "operations": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

},
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
```

```
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
            }
        ],
        "traits": {
            "aws.api#service": {
                "sdkId": "License Manager User Subscriptions",
                "arnNamespace": "license-manager-user-subscriptions",
                "cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
            },
            "aws.auth#sigv4": {
                "name": "license-manager-user-subscriptions"
             },
            "aws.protocols#restJson1": {},
            "smithy.api#cors": {
                "additionalAllowedHeaders": [
                    "*",
                    "content-type",
                    "x-amz-content-sha256",
                    "x-amz-user-agent",
                    "x-amzn-platform-id",
                    "x-amzn-trace-id",
                    "content-length",
                    "x-api-key",
                    "authorization",
                    "x-amz-date",
                    "x-amz-security-token",
                    "Access-Control-Allow-Headers",
                    "Access-Control-Allow-Methods",
                    "Access-Control-Allow-Origin"
                ],
                "additionalExposedHeaders": [
                    "x-amzn-errortype",
                    "x-amzn-requestid",
                    "x-amzn-trace-id"

 ]
            },
            "smithy.api#documentation": "<p>With License Manager, you can create user-based subscriptions to
utilize licensed software with\n      a per user subscription fee on Amazon EC2 instances.</p>",
            "smithy.api#title": "AWS License Manager User Subscriptions",
            "smithy.rules#endpointRuleSet": {
                "version": "1.0",
                "parameters": {
                    "Region": {
                        "builtIn": "AWS::Region",
                        "required": false,
```

"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack
endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the
configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}

},
"rules": [
{
"conditions": [
{
"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
]
}
],
"type": "tree",
"rules": [
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"

```
                    },

                    true
                    ]
                }
            ],
            "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
            "type": "error"
        },
        {
            "conditions": [
                {
                    "fn": "booleanEquals",
                    "argv": [
                        {
                            "ref": "UseDualStack"
                        },
                        true
                    ]
                }
            ],

"error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
            "type": "error"
        },
        {
            "conditions": [],
            "endpoint": {
                "url": {
                    "ref": "Endpoint"
                },
                "properties": {},
                "headers": {}
            },
            "type": "endpoint"
        }
    ]
},
{
    "conditions": [
        {
            "fn": "isSet",
            "argv": [

{
                    "ref": "Region"
                }
            ]
```

```
            }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "aws.partition",
                        "argv": [
                            {
                                "ref": "Region"
                            }
                        ],
                        "assign": "PartitionResult"
                    }
                ],
                "type": "tree",

"rules": [
                    {
                        "conditions": [
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    {
                                        "ref": "UseFIPS"
                                    },
                                    true
                                ]
                            },
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    {
                                        "ref": "UseDualStack"

                                    },
                                    true
                                ]
                            }
                        ],
                        "type": "tree",
                        "rules": [
                            {
                                "conditions": [
                                    {
                                        "fn": "booleanEquals",
                                        "argv": [
```

true,
{
"fn": "getAttr",

"argv": [
{
"ref": "PartitionResult"
},
"supportsFIPS"
]
}
]
},
{
"fn": "booleanEquals",
"argv": [
true,
{

"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsDualStack"
]
}
]
}
],
"type": "tree",
"rules": [
{

"conditions": [],
"endpoint": {
"url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
},
{
"conditions": [],
"error": "FIPS and DualStack are enabled, but this partition does not support one or

both",
"type": "error"
}
]
},
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
},
true
]
}
],
"type": "tree",

"rules": [
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
true,
{
"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsFIPS"

]
}
]
}
],
"type": "tree",
"rules": [
{
"conditions": [],
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.{Region}.{PartitionResult#dnsSuffix}",
"properties": {},
"headers": {}

```
},
                "type": "endpoint"
              }
            ]
          },
          {
            "conditions": [],
            "error": "FIPS is enabled but this partition does not support FIPS",
            "type": "error"
          }
        ]
      },
      {
        "conditions": [
          {
            "fn": "booleanEquals",
            "argv": [
              {
                "ref": "UseDualStack"
              },
              true
            ]
          }
        ],
        "type": "tree",
        "rules": [
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  true,
                  {

                    "fn": "getAttr",
                      "argv": [
                        {
                          "ref": "PartitionResult"
                        },
                        "supportsDualStack"
                      ]
                  }
                ]
              }
            ],
            "type": "tree",
            "rules": [
```

{
"conditions": [],
"endpoint": {
"url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
},
{
"conditions": [],
"error": "DualStack is enabled but this partition does
not support DualStack",
"type": "error"
}
]
},
{
"conditions": [],
"endpoint": {
"url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
}
]
},
{
"conditions":
[],
"error": "Invalid Configuration: Missing Region",
"type": "error"
}
]
},
"smithy.rules#endpointTests": {
"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {

"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation":
"For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
}
},

"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,

"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with
FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},

"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1

with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1
with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
}
},
"params": {

"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect":
{
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"

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                },
                "params": {
                    "Region": "us-iso-east-1",
                    "UseFIPS": false,
                    "UseDualStack":
true
                }
            },
            {
                "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
                "expect": {
                    "endpoint": {
                        "url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
                    }
                },
                "params": {
                    "Region": "us-iso-east-1",
                    "UseFIPS": false,
                    "UseDualStack": false
                }
            },
            {
                "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
                "expect": {
                    "error": "FIPS and DualStack are enabled, but
this partition does not support one or both"
                },
                "params": {
                    "Region": "us-isob-east-1",
                    "UseFIPS": true,
                    "UseDualStack": true
                }
            },
            {
                "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
                "expect": {
                    "endpoint": {
                        "url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
                    }
                },
                "params": {
                    "Region": "us-isob-east-1",
                    "UseFIPS": true,
                    "UseDualStack": false
                }

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"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{

"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,

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                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips enabled and dualstack disabled",
            "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
            },
            "params": {
                "Region": "us-east-1",
                 "UseFIPS": true,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips disabled and dualstack enabled",
            "expect": {
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "Missing region",
            "expect": {
                 "error": "Invalid Configuration: Missing Region"
            }
        }
    ],
    "version": "1.0"
  }
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
  },
  "errors": [
    {
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"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the identity providers for user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/ListIdentityProviders"
},
"smithy.api#paginated":
{
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "IdentityProviderSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "smithy.api#String",

"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
{
"type": "structure",
"members": {
"IdentityProviderSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list identity providers operation. ",
"smithy.api#required": {}
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"

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            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/instance/ListInstances"
            },
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
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"type":
"structure",
"members": {
"InstanceSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list instances operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],

"traits": {
"smithy.api#documentation": " Lists the user-based subscription products available from an identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/ListProductSubscriptions"
},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "ProductUserSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
"type": "structure",
"members": {
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {

"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
"type": "structure",
"members": {
"ProductUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list product subscriptions operation. "
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"

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            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists user associations for an identity provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListUserAssociations"
            },
            "smithy.api#paginated":
{
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity
provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
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"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
"type": "structure",
"members": {
"InstanceUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list user association operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
"type": "structure",
"members": {

"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider of the user. ",
"smithy.api#required": {}
}
},

"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}

},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a product for a user. ",
"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for a product for a user. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"SubscriptionStartDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The
start date of a subscription. "
}
},
"SubscriptionEndDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The end date of a subscription. "
}
}
},

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    "traits": {
        "smithy.api#documentation": "<p>The summary of the user-based subscription products for a user.</p>"
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
    }
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
     },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
         },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Registers an identity provider for user-based subscriptions.</p>",
        "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/identity-provider/RegisterIdentityProvider"
        },
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"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings such as the\n subnets to provision VPC endpoints. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
"type": "structure",
"members": {
"message": {

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            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The resource couldn't be found.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 404
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
        "type": "string",

    "traits": {
          "smithy.api#length": {
            "min": 5,
            "max": 200
          },
          "smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The request failed because a service quota is exceeded.</p>",
          "smithy.api#error": "client"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#Settings": {
        "type": "structure",
        "members": {
          "Subnets": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
            "traits": {
              "smithy.api#documentation":
  "<p>The subnets defined for the registered identity provider.</p>",
              "smithy.api#length": {
                "min": 1
              },
              "smithy.api#required": {}
            }
          },
          "SecurityGroupId": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
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"traits": {
"smithy.api#documentation": " A security group ID that allows inbound TCP port 1688 communication between resources in\n your VPC and the VPC endpoint for activation servers. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings such as the\n subnets to provision VPC endpoints, and the security group ID that is associated with the VPC\n endpoints. The security group should permit inbound TCP port 1688 communication from resources\n in the VPC. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Starts a product subscription for a user with the specified identity provider. \n <note>\n Your estimated bill for charges on the number of users and related costs

will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing.
For more information, see Viewing your\n monthly charges in the Amazon Web Services Billing User Guide. \n </note>",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/StartProductSubscription"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider of the user. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
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"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
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"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
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},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
"type": "structure",
"members": {
"ProductUserSummary": {

"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the start product subscription operation. ",
"smithy.api#required": {}
}
}
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"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
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"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
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"errors": [
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"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Stops a product subscription for a user with the specified identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/StopProductSubscription"

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            }
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    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
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                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
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                    "smithy.api#required":
{}
                }
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            "Product": {
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                "traits": {
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                    "smithy.api#required": {}
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"<p>Metadata that describes the start product subscription operation.</p>",
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                }
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        "member": {
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        "type": "string",
        "traits": {
            "smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
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    "com.amazonaws.licensemanagerusersubscriptions#Subnets": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
        }
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    "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
            "message": {

             "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request was denied because of request throttling. Retry the
request.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
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        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
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        "errors": [
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                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
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            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
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                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
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            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
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        "traits": {
            "smithy.api#documentation": "<p>Updates additional product configuration settings for the registered
identity\n      provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/UpdateIdentityProviderSettings"
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            "smithy.api#idempotent": {}
        }
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            "Product": {
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                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
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            "UpdateSettings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
                "traits": {
                    "smithy.api#documentation": "<p>Updates the registered identity providers product related
configuration settings. You can\n      update any combination of settings in a single operation such as the:</p>\n
<ul>\n            <li>\n                <p>Subnets which you want to add to provision VPC endpoints.</p>\n            </li>\n
            <li>\n                <p>Subnets which you want to remove the VPC endpoints from.</p>\n            </li>\n
<li>\n                <p>Security group ID which permits traffic to the VPC endpoints.</p>\n            </li>\n        </ul>",
                    "smithy.api#required": {}
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"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
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"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
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"smithy.api#required": {}
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"com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
"type": "structure",
"members": {
"AddSubnets": {

"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets in which License Manager will create a VPC endpoint for products that\n require connectivity to activation servers. ",
"smithy.api#required": {}
}
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"RemoveSubnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets to remove. ",
"smithy.api#required": {}
}
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"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID that allows inbound TCP port 1688 communication between resources in\n your VPC and the VPC endpoints for activation servers. "
}
}
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"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings such as\n the subnets to provision VPC endpoints. "
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"com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {

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                "target": "smithy.api#String"
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            "smithy.api#error": "client"
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            "namespace": "*"
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            "namespace": "*"
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            "namespace": "*"
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        "version": "2018-08-01",
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"target": "com.amazonaws.licensemanager#CheckInLicense"
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"target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
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"target": "com.amazonaws.licensemanager#CheckoutLicense"
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"target": "com.amazonaws.licensemanager#CreateGrant"
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"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
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"target": "com.amazonaws.licensemanager#DeleteToken"

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      "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
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"target": "com.amazonaws.licensemanager#ListLicenses"
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"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
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"target": "com.amazonaws.licensemanager#RejectGrant"
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"target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
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"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
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"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
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"target": "com.amazonaws.licensemanager#UpdateServiceSettings"
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"traits": {
"aws.api#service": {
"sdkId": "License Manager",
"arnNamespace": "license-manager",
"cloudFormationName": "LicenseManager",
"cloudTrailEventSource": "licensemanager.amazonaws.com",
"endpointPrefix": "license-manager"
},
"aws.auth#sigv4": {
"name": "license-manager"
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"aws.protocols#awsJson1_1": {},
"smithy.api#documentation": " License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers. ",
"smithy.api#title": "AWS License Manager",
"smithy.api#xmlNamespace": {
"uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
},
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
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"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send

this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
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"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}
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"rules": [
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"conditions": [
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"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
]

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"rules": [
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"argv": [
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"type": "error"
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"argv": [
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  "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
  "type": "error"
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      "argv": [
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          "argv": [
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                              },
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"properties": {},
"headers": {}

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"type": "endpoint"
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"conditions": [],
"error": "FIPS and DualStack are enabled, but this partition does not support one or both",
"type": "error"
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"conditions": [
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"fn": "booleanEquals",

"argv": [
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                        "headers": {}
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                      "type": "endpoint"
                    }
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                  "error": "FIPS is enabled but this
partition does not support FIPS",
                  "type": "error"
                }
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                                "argv": [
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"supportsDualStack"

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                                ]
                            }
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                    }
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                "rules": [
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                        "endpoint": {
                            "url": "https://license-
manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
                            "properties": {},
                            "headers": {}
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                ]
            },
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                "error": "DualStack is enabled but this partition does not support DualStack",
                "type": "error"
            }
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            },
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                    "headers": {}
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                "type": "endpoint"
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    "conditions": [],
    "error": "Invalid Configuration: Missing Region",
    "type": "error"
  }
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"smithy.rules#endpointTests": {
  "testCases": [
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      "expect": {
        "endpoint":
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            "url": "https://license-manager.af-south-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "af-south-1",
        "UseFIPS": false,
        "UseDualStack": false
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      "expect": {
        "endpoint": {
            "url": "https://license-manager.ap-east-1.amazonaws.com"
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      "params": {
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"UseDualStack": false
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"params": {
"Region": "ap-northeast-1",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-northeast-2.amazonaws.com"
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"params": {
"Region": "ap-northeast-2",
"UseFIPS": false,
"UseDualStack": false
}
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"documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-northeast-3.amazonaws.com"
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"params": {
"Region": "ap-northeast-3",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
"expect": {
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        "params": {
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            "UseDualStack": false
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        "expect": {
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        "params": {
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            "UseFIPS": false,
            "UseDualStack": false
        }
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        "documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
        "expect": {
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            }
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        "params": {
            "Region": "ap-southeast-2",
            "UseFIPS": false,
            "UseDualStack": false
        }
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"documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
        "expect": {
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        "params": {
            "Region": "ap-southeast-3",
            "UseFIPS": false,
            "UseDualStack": false
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          "expect": {
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            "UseFIPS": false,
            "UseDualStack": false
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disabled and DualStack disabled",
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          "params": {
            "Region": "eu-north-1",
            "UseFIPS": false,
            "UseDualStack": false
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          "documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.eu-south-1.amazonaws.com"
            }
```

```
                },
                "params": {
                    "Region":
"eu-south-1",
                    "UseFIPS": false,
                    "UseDualStack": false
                }
            },
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                "documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
                "expect": {
                    "endpoint": {
                        "url": "https://license-manager.eu-west-1.amazonaws.com"
                    }
                },
                "params": {
                    "Region": "eu-west-1",
                    "UseFIPS": false,
                    "UseDualStack": false
                }
            },
            {
                "documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
                "expect": {

                "endpoint": {
                        "url": "https://license-manager.eu-west-2.amazonaws.com"
                    }
                },
                "params": {
                    "Region": "eu-west-2",
                    "UseFIPS": false,
                    "UseDualStack": false
                }
            },
            {
                "documentation": "For region eu-west-3 with FIPS disabled and DualStack disabled",
                "expect": {
                    "endpoint": {
                        "url": "https://license-manager.eu-west-3.amazonaws.com"
                    }
                },
                "params": {
                    "Region": "eu-west-3",
                    "UseFIPS": false,

        "UseDualStack": false
                }
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            },
            {
              "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager.me-south-1.amazonaws.com"
                }
              },
              "params": {
                "Region": "me-south-1",
                "UseFIPS": false,
                "UseDualStack": false
              }
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            {
              "documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager.sa-east-1.amazonaws.com"
                 }
              },
              "params": {
                "Region": "sa-east-1",
                "UseFIPS": false,
                "UseDualStack": false
              }
            },
            {
              "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager.us-east-1.amazonaws.com"
                }
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": false
              }

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            {
              "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager-fips.us-east-1.amazonaws.com"
                }
              },
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"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
}
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{
"documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-east-2.amazonaws.com"
}

},
"params": {
"Region": "us-east-2",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-east-2.amazonaws.com"
}
},
"params": {
"Region": "us-east-2",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region
us-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-west-1.amazonaws.com"
}
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"params": {
"Region": "us-west-1",
"UseFIPS": false,
"UseDualStack": false
}
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"documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
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}
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"params": {

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"UseFIPS": true,
"UseDualStack": false
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{
"documentation": "For region us-west-2 with FIPS disabled and DualStack disabled",
"expect": {
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"params": {
"Region": "us-west-2",
"UseFIPS": false,
"UseDualStack": false
}
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"documentation": "For region us-west-2 with FIPS enabled and DualStack disabled",

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}
},
"params": {
"Region": "us-west-2",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-east-1.api.aws"
}
},
"params": {

"Region": "us-east-1",
"UseFIPS": true,

"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url":
"https://license-manager.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-northwest-1",
"UseFIPS": false,
"UseDualStack": false

}
},
{

"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
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{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",

"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-gov-west-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-west-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation":
"For region us-gov-west-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-west-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {

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                "url": "https://license-manager-fips.us-gov-east-1.api.aws"
            }
        },

    "params": {
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            "UseFIPS": true,
            "UseDualStack": true
        }
    },
    {
        "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.us-gov-east-1.api.aws"
            }
        },
        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
            "UseDualStack": true
        }
    },
    {
        "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack
disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
            }
        },
        "params": {
            "Region": "us-iso-east-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
        "expect": {
            "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
        },
        "params": {
            "Region": "us-iso-east-1",
            "UseFIPS": true,
             "UseDualStack": true
        }
    },
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        {
          "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
            }
          },
          "params": {
            "Region": "us-iso-east-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
          "expect": {
            "error": "DualStack is enabled
but this partition does not support DualStack"
          },
          "params": {
            "Region": "us-iso-east-1",
            "UseFIPS": false,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
            }
          },
          "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },

       {
          "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
          "expect": {
            "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
          },
          "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": true,
            "UseDualStack": true
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                }
            },
            {
                "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
                "expect": {
                    "endpoint": {
                        "url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
                    }
                },

        "params": {
                    "Region": "us-isob-east-1",
                    "UseFIPS": true,
                    "UseDualStack": false
                }
            },
            {
                "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
                "expect": {
                    "error": "DualStack is enabled but this partition does not support DualStack"
                },
                "params": {
                    "Region": "us-isob-east-1",
                    "UseFIPS": false,
                    "UseDualStack": true
                }
            },
            {
                "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

    "expect": {
                    "endpoint": {
                        "url": "https://example.com"
                    }
                },
                "params": {
                    "Region": "us-east-1",
                    "UseFIPS": false,
                    "UseDualStack": false,
                    "Endpoint": "https://example.com"
                }
            },
            {
                "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",
                "expect": {
                    "endpoint": {
                        "url": "https://example.com"
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                }
            },
            "params": {
                "UseFIPS": false,

    "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips enabled and dualstack disabled",
            "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips disabled and dualstack enabled",
            "expect": {
                "error":
"Invalid Configuration: Dualstack and custom endpoint are not supported"
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "Missing region",
            "expect": {
                "error": "Invalid Configuration: Missing Region"
            }
        }
    ],
    "version": "1.0"
  }
}
},
"com.amazonaws.licensemanager#AcceptGrant": {
  "type": "operation",
  "input": {
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"target": "com.amazonaws.licensemanager#AcceptGrantRequest"

},
"output": {
"target": "com.amazonaws.licensemanager#AcceptGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"

}
],
"traits": {
"smithy.api#documentation": " Accepts the specified grant. "
}
},
"com.amazonaws.licensemanager#AcceptGrantRequest": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}

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    },
    "com.amazonaws.licensemanager#AcceptGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant
ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#AccessDeniedException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {

  "code": "ServiceAccessDenied",
                "httpResponseCode": 401
            },
            "smithy.api#documentation": "<p>Access to resource denied.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 401
        }
    },
    "com.amazonaws.licensemanager#ActivationOverrideBehavior": {
        "type": "enum",
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        "members": {
          "DISTRIBUTED_GRANTS_ONLY": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
            }
          },
          "ALL_GRANTS_PERMITTED_BY_ISSUER": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#AllowedOperation": {

      "type": "enum",
        "members": {
          "CREATE_GRANT": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CreateGrant"
            }
          },
          "CHECKOUT_LICENSE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CheckoutLicense"
            }
          },
          "CHECKOUT_BORROW_LICENSE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CheckoutBorrowLicense"
            }
          },
          "CHECK_IN_LICENSE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CheckInLicense"
            }
          },
          "EXTEND_CONSUMPTION_LICENSE":
{
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ExtendConsumptionLicense"
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```
            }
        },
        "LIST_PURCHASED_LICENSES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "ListPurchasedLicenses"
            }
        },
        "CREATE_TOKEN": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "CreateToken"
            }
        }
    }
},
"com.amazonaws.licensemanager#AllowedOperationList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#AllowedOperation"
    },
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max":
7
        }
    }
},
"com.amazonaws.licensemanager#Arn": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 2048
        },
        "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-
z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
    }
},
"com.amazonaws.licensemanager#ArnList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Arn"
    }
},
"com.amazonaws.licensemanager#AuthorizationException": {
    "type": "structure",
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"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError":
{
"code": "AuthorizationFailure",
"httpResponseCode": 403
},
"smithy.api#documentation": " The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n policy associated with this account. ",
"smithy.api#error": "client",
"smithy.api#httpError": 403
}
},
"com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
"type": "structure",
"members": {
"LastRunTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time that automated discovery last ran. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes automated discovery. "
}
},

"com.amazonaws.licensemanager#Boolean": {
"type": "boolean",
"traits": {
"smithy.api#default": false
}
},
"com.amazonaws.licensemanager#BorrowConfiguration": {
"type": "structure",
"members": {
"AllowEarlyCheckIn": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether early check-ins are allowed. ",
"smithy.api#required": {}
}
},

"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the borrow configuration, in minutes. ",
"smithy.api#required": {}
}
}

},
"traits": {
"smithy.api#documentation": " Details about a borrow configuration. "
}
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"com.amazonaws.licensemanager#BoxBoolean": {
"type": "boolean"
},
"com.amazonaws.licensemanager#BoxInteger": {
"type": "integer"
},
"com.amazonaws.licensemanager#BoxLong": {
"type": "long"
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"com.amazonaws.licensemanager#CheckInLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"

},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{

"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks in the specified license. Check in a license when it is no longer in use. "
}
},
"com.amazonaws.licensemanager#CheckInLicenseRequest": {
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CheckInLicenseResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"

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        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members":
```

{
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The license must use the borrow consumption configuration. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. Partial checkouts are not supported. ",
"smithy.api#required": {}
}
},
"DigitalSignatureMethod": {
"target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
"traits": {
"smithy.api#documentation": " Digital signature method. The possible value is JSON Web Signature (JWS) algorithm PS384.\n For more information, see RFC 7518 Digital Signature with RSASSA-PSS. ",
"smithy.api#required": {}
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}

```
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>"
                }
            },
            "EntitlementsAllowed":
{
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "SignedToken": {
                "target": "com.amazonaws.licensemanager#SignedToken",
                "traits": {
                    "smithy.api#documentation": "<p>Signed token.</p>"
                }
            },
            "IssuedAt": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license checkout
is issued.</p>"
                }
            },
            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
                }
```

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            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target":
"com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license.</p>\n        <note>\n            <p>If the
account that created the license is the same that is performing the check out, you must\n            specify the account
as the beneficiary.</p>\n        </note>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutLicenseRequest": {
        "type": "structure",
        "members": {
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product
 SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "CheckoutType": {
                "target": "com.amazonaws.licensemanager#CheckoutType",
                "traits": {
                    "smithy.api#documentation": "<p>Checkout type.</p>",
                    "smithy.api#required": {}
                }
            },
            "KeyFingerprint": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Key fingerprint identifying the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",

    "smithy.api#required": {}
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
```

idempotency of the request. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
"type": "structure",
"members": {
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " Allowed license entitlements. "
}
},
"SignedToken": {
"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}

```
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "IssuedAt": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
                }
            },
            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and
time at which the license checkout expires.</p>"
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutType": {
        "type": "enum",
        "members": {
            "PROVISIONAL": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PROVISIONAL"
                }
            },
            "PERPETUAL": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PERPETUAL"
                }
             }
        }
    },
```

"com.amazonaws.licensemanager#ClientRequestToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 36
}
}
},
"com.amazonaws.licensemanager#ClientToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#ConflictException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ConflictException",
"httpResponseCode":
409
},
"smithy.api#documentation": " There was a conflict processing the request. Try your request again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 409
}
},
"com.amazonaws.licensemanager#ConsumedLicenseSummary": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Resource type of the resource consuming a license. "
}
},
"ConsumedLicenses": {

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            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
            }
        }
    },

"traits": {
        "smithy.api#documentation": "<p>Details about license consumption.</p>"
    }
  },
  "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
    }
  },
  "com.amazonaws.licensemanager#ConsumptionConfiguration": {
    "type": "structure",
    "members": {
        "RenewType": {
            "target": "com.amazonaws.licensemanager#RenewType",
            "traits": {
                "smithy.api#documentation": "<p>Renewal frequency.</p>"
            }
        },
        "ProvisionalConfiguration": {
            "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
             }
        },
        "BorrowConfiguration": {
            "target": "com.amazonaws.licensemanager#BorrowConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
    }
  },
  "com.amazonaws.licensemanager#CreateGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateGrantRequest"
    },
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"output": {
"target": "com.amazonaws.licensemanager#CreateGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target":
"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a grant for the specified license. A grant shares the use of license\n entitlements with a specific Amazon Web Services account, an organization, or an\n organizational unit (OU). For more
information, see Granted licenses in License Manager in the License Manager User Guide. "
}
},
"com.amazonaws.licensemanager#CreateGrantRequest": {
"type": "structure",
"members": {
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}

}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Principals": {
"target": "com.amazonaws.licensemanager#PrincipalArnList",
"traits": {
"smithy.api#documentation": " The grant principals. You can specify one of the following as an Amazon Resource Name\n (ARN): \n \n \n An Amazon Web Services account, which includes only the account specified. \n \n \n \n \n An organizational unit (OU), which includes all accounts in the OU. \n \n \n \n \n An organization, which will include all accounts across your organization. \n \n ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},

"com.amazonaws.licensemanager#CreateGrantResponse": {
"type": "structure",

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        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Grant version.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CreateGrantVersion":
{
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
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            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information, see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",

    "smithy.api#required": {}
                }
            },
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>"
                }
            },
            "AllowedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
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            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "StatusReason": {
            "target": "com.amazonaws.licensemanager#StatusReasonMessage",
            "traits": {
                "smithy.api#documentation": "<p>Grant status reason.</p>"
            }
        },
        "SourceVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Current version of the grant.</p>"
            }
        },
        "Options": {
            "target": "com.amazonaws.licensemanager#Options",
            "traits": {
                "smithy.api#documentation": "<p>The options specified for the grant.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>New version of the grant.</p>"
            }
        }
```

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        },
        "traits":
{
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
             },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
```

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        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
           },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Creates a license configuration.</p>\n        <p>A license configuration is an abstraction of a customer license agreement that can be\n        consumed and enforced by License Manager. Components include specifications for the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n        Dedicated Instance, Dedicated Host, or
 all of these), license affinity  to host (how long a \n        license must be associated with a host), and the number of licenses purchased and used.</p>"
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Name of the license configuration.</p>",
              "smithy.api#required": {}
            }
          },
          "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
          },
          "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
```

"traits": {
"smithy.api#documentation": " Dimension used to track the license inventory. ",
"smithy.api#required": {}
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows. \n \n \n \n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n <code>licenseAffinityToHost</code> |\n <code>maximumCores</code> | <code>minimumCores</code>\n \n \n \n \n <code>Instances</code> dimension: <code>allowedTenancy</code> | \n <code>maximumCores</code> | <code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n
\n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n <code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code>\n \n \n \n \n <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n <code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>. "
}
},

"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the license configuration. "

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            }
        },
        "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
        },
        "ProductInformationList": {
            "target": "com.amazonaws.licensemanager#ProductInformationList",
            "traits": {
                "smithy.api#documentation": "<p>Product information.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationResponse":
{
    "type": "structure",
    "members": {
        "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
         },
        {
```

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a new license conversion task. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {

"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource you are converting the license type for. ",
"smithy.api#required": {}
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting from. \n\n For the structure of the source license, see Convert a license type using the CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
},
"DestinationLicenseContext":
{
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting to. For the structure of the destination license, see Convert a license type using the CLI in

the License Manager User Guide. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

"traits": {
"smithy.api#documentation": " The ID of the created license type conversion task. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},

```
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "ReportGeneratorName":
 {
                "target": "com.amazonaws.licensemanager#ReportGeneratorName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>",
                    "smithy.api#required": {}
                }
            },
            "Type": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports to generate. The following report types an be
generated:</p>\n        <ul>\n            <li>\n                <p>License configuration report - Reports the number and
details of consumed licenses for a license configuration.</p>\n            </li>\n            <li>\n                <p>Resource
report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n            </li>\n
</ul>",
                    "smithy.api#required": {}

        }
            },
            "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
                    "smithy.api#documentation": "<p>Defines the type of license configuration the report generator
tracks.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportFrequency": {
                "target": "com.amazonaws.licensemanager#ReportFrequency",
                "traits": {
```

"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the new report generator. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseRequest": {
"type": "structure",

"members": {
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. ",
"smithy.api#required": {}
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits": {
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region for the license. ",
"smithy.api#required": {}

}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",

```
            "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>",
                "smithy.api#required": {}
            }
        },
        "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License beneficiary.</p>",
                "smithy.api#required": {}
            }
         },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n          running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n          usage.</p>",
                "smithy.api#required": {}
            }
        },
        "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license.</p>"
            }
        },
        "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientToken",
            "traits": {
                "smithy.api#documentation":
 "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
```

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        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        },
        "Version": {
             "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
         },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
```

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            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target":
"com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product name.</p>",
                    "smithy.api#required": {}
                }
            },
            "Issuer": {
                "target": "com.amazonaws.licensemanager#Issuer",
                "traits":
{
                    "smithy.api#documentation": "<p>License issuer.</p>",
                    "smithy.api#required": {}
                }
            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Home Region of the license.</p>",
                    "smithy.api#required": {}
                }
            },
```

"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},

"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Current version of the license. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New version of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
}
},
"traits": {
"smithy.api#output":
{}
}
},
"com.amazonaws.licensemanager#CreateToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },

        {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a long-lived token.</p>\n        <p>A refresh token is a JWT token used to get an access token. With an access token,\n        you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n        call License Manager to manage the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateTokenRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits":
 {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n        JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "RoleArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n        License Manager does not check whether the roles are in use.</p>"
                }
```

```
            },
            "ExpirationInDays": {
                "target": "com.amazonaws.licensemanager#Integer",
                "traits": {
                    "smithy.api#documentation": "<p>Token expiration, in days, counted from token creation. The
default is 365 days.</p>"
                }
            },
            "TokenProperties": {
                 "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Data specified by the caller to be included in the JWT token. The
data is mapped\n          to the amr claim of the JWT token.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Idempotency token, valid for 10 minutes.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateTokenResponse": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",

                 "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
            "TokenType": {
                "target": "com.amazonaws.licensemanager#TokenType",
                "traits": {
                    "smithy.api#documentation": "<p>Token type.</p>"
                }
            },
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
                }
```

```
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#DateTime": {
    "type": "timestamp"
},
"com.amazonaws.licensemanager#DatetimeRange": {
    "type": "structure",
    "members": {
        "Begin": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Start of the time range.</p>",
                "smithy.api#required": {}
            }
        },
        "End": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>End of the time range.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
    }
},
"com.amazonaws.licensemanager#DeleteGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
```

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            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes
the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the
grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteGrantResponse": {
```

```
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation":
"<p>Grant version.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#DeleteLicense": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license configuration. \n You cannot delete a license configuration that is in use. "
}

```
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
      "type": "structure",
      "members":
{
        "LicenseConfigurationArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>ID of the license configuration.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
       },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
```

```
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
             }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified report generator.</p>\n        <p>This action
deletes the report generator, which stops it from generating future reports.\n        The action cannot be reversed. It
has no effect on the previous reports from this generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to be
deleted.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {

 "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
```

```
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>",
                    "smithy.api#required":
{}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseResponse": {
        "type": "structure",
        "members": {
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>"
                }
            },
            "DeletionDate": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date when the license is deleted.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteToken": {
        "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
```

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},

{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified token. Must be called in the license home Region. "
}
},
"com.amazonaws.licensemanager#DeleteTokenRequest": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteTokenResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}

}
},
"com.amazonaws.licensemanager#DigitalSignatureMethod": {

"type": "enum",
"members": {
"JWT_PS384": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "JWT_PS384"
}
}
}
},
"com.amazonaws.licensemanager#Entitlement": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement resource. Use only
if the unit is None. "
}
},
"MaxCount": {
"target": "com.amazonaws.licensemanager#Long",
"traits": {
"smithy.api#documentation": " Maximum entitlement count. Use if the unit is not None. "
}
},
"Overage": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether overages are allowed. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementUnit",
"traits": {
"smithy.api#documentation": " Entitlement unit. ",
"smithy.api#required": {}
}
},
"AllowCheckIn": {
"target":

"com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": " Indicates whether check-ins are allowed. "
            }
        }
    },
    "traits": {
        "smithy.api#documentation": " Describes a resource entitled for use with a license. "
    }
},
"com.amazonaws.licensemanager#EntitlementData": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": " Entitlement data name. ",
                "smithy.api#required": {}
            }
        },
        "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": " Entitlement
data value. "
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
                "smithy.api#documentation": " Entitlement data unit. ",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": " Data associated with an entitlement resource. "
    }
},
"com.amazonaws.licensemanager#EntitlementDataList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#EntitlementData"
    }
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
    "type": "enum",
    "members": {

"COUNT": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Count"
}
},
"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"SECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Seconds"
}
},
"MICROSECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Microseconds"
}
},
"MILLISECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Milliseconds"
}
},
"BYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes"
}
},
"KILOBYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes"
}
},
"MEGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes"
}

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        },
        "GIGABYTES": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Gigabytes"
          }
        },
        "TERABYTES": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Terabytes"
          }
        },
        "BITS":
{
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Bits"
          }
        },
        "KILOBITS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Kilobits"
          }
        },
        "MEGABITS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Megabits"
          }
        },
        "GIGABITS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Gigabits"
          }
        },
        "TERABITS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Terabits"

    }
        },
        "PERCENT": {
          "target": "smithy.api#Unit",
          "traits": {
```

```
        "smithy.api#enumValue": "Percent"
    }
},
"BYTES_PER_SECOND": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Bytes/Second"
    }
},
"KILOBYTES_PER_SECOND": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Kilobytes/Second"
    }
},
"MEGABYTES_PER_SECOND": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Megabytes/Second"
    }
},
"GIGABYTES_PER_SECOND": {
    "target": "smithy.api#Unit",
     "traits": {
        "smithy.api#enumValue": "Gigabytes/Second"
    }
},
"TERABYTES_PER_SECOND": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Terabytes/Second"
    }
},
"BITS_PER_SECOND": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Bits/Second"
    }
},
"KILOBITS_PER_SECOND": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Kilobits/Second"
    }
},
"MEGABITS_PER_SECOND": {
    "target": "smithy.api#Unit",
    "traits": {
```

"smithy.api#enumValue":
"Megabits/Second"
}
},
"GIGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits/Second"
}
},
"TERABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits/Second"
}
},
"COUNT_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count/Second"
}
}
}
},
"com.amazonaws.licensemanager#EntitlementList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Entitlement"
}
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The entitlement is not allowed. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#EntitlementUnit": {
"type": "enum",
"members": {
"COUNT": {

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            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Count"
            }
        },
        "NONE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "None"
            }
        },
        "SECONDS":
{
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Seconds"
            }
        },
        "MICROSECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Microseconds"
            }
        },
        "MILLISECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Milliseconds"
            }
        },
        "BYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bytes"
            }
        },
        "KILOBYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes"
             }
        },
        "MEGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes"
            }
        },
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"GIGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes"
}
},
"TERABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"
}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}

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        },
        "BYTES_PER_SECOND": {
          "target":
"smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Bytes/Second"
          }
        },
        "KILOBYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Kilobytes/Second"
          }
        },
        "MEGABYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Megabytes/Second"
          }
        },
        "GIGABYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Gigabytes/Second"
          }
        },
        "TERABYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {

"smithy.api#enumValue": "Terabytes/Second"
          }
        },
        "BITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Bits/Second"
          }
        },
        "KILOBITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Kilobits/Second"
          }
        },
        "MEGABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
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"smithy.api#enumValue": "Megabits/Second"
}
},
"GIGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits/Second"
}
},

"TERABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits/Second"
}
},
"COUNT_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count/Second"
}
}
}
},
"com.amazonaws.licensemanager#EntitlementUsage": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement usage name. ",
"smithy.api#required": {}
}
},
"ConsumedValue": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Resource usage consumed. ",
"smithy.api#required": {}
}
},
"MaxCount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Maximum entitlement usage count. "
}
},

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            "Unit": {
                "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementUsageList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
```

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            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}

  }
            },
            "DryRun": {
                "target": "com.amazonaws.licensemanager#Boolean",
                "traits": {
                    "smithy.api#default": false,
                    "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>"
                }
            },

            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
                }
            }
        },
        "traits": {
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"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#FailedDependencyException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
},
"ErrorCode": {
"target": "com.amazonaws.licensemanager#String"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FailedDependency",
"httpResponseCode": 424
},
"smithy.api#documentation":
" A dependency required to run the API is missing. ",
"smithy.api#error": "client",
"smithy.api#httpError": 424
}
},
"com.amazonaws.licensemanager#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#FilterName",
"traits": {
"smithy.api#documentation": " Name of the filter. Filter names are case-sensitive. "
}
},
"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " The value of the filter, which is case-sensitive. You can only
specify one value for the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter
name and value pair that is used to return more specific results from a\n describe operation. Filters can be used
to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {

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    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "FilterLimitExceeded",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#FilterList": {
    "type": "list",
     "member": {
        "target": "com.amazonaws.licensemanager#Filter"
    }
},
"com.amazonaws.licensemanager#FilterName": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#FilterValue",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#Filters": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Filter",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#GetAccessToken": {
    "type": "operation",
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"input": {
"target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access
tokens\n are valid for one hour. "
}
},
"com.amazonaws.licensemanager#GetAccessTokenRequest": {
"type": "structure",
"members": {
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token, encoded as a JWT token. ",
"smithy.api#required": {}
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Token properties to validate against those present in the JWT token. "
}
}
},
"traits": {

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            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenResponse":
{
        "type": "structure",
        "members": {
            "AccessToken": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Temporary access token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"

        },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
```

```
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
                "smithy.api#documentation": "<p>Grant details.</p>"
            }
        }
    },
    "traits": {

"smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
```

"target": "com.amazonaws.licensemanager#GetLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"

},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},

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            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license
configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits":
 {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            },
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>"
                 }
            },
            "Description": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension for which the licenses are counted. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",

"traits": {
"smithy.api#documentation": " Number of available licenses. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Sets the number of available licenses as a hard limit. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses assigned to resources. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License configuration status. "
}

},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the owner of the license configuration. "
}

```
            },
            "ConsumedLicenseSummaryList": {
                "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>Summaries of the licenses consumed by resources.</p>"
                }
            },
            "ManagedResourceSummaryList": {
                "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>Summaries of the managed resources.</p>"
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                 "traits": {
                    "smithy.api#documentation": "<p>Tags for the license configuration.</p>"
                }
            },
            "ProductInformationList": {
                "target": "com.amazonaws.licensemanager#ProductInformationList",
                "traits": {
                    "smithy.api#documentation": "<p>Product information.</p>"
                }
            },
            "AutomatedDiscoveryInformation": {
                "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
                "traits": {
                    "smithy.api#documentation": "<p>Automated discovery information.</p>"
                }
            },
            "DisassociateWhenNotFound": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>When
true, disassociates a resource when software is uninstalled.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConversionTask": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
        },
```

"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified license type conversion task. "
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task. "

```
            }
        },
        "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the resources the license
conversion task is associated with.</p>"
            }
        },
        "SourceLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information
 about the license type converted from.</p>"
            }
        },
        "DestinationLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license type converted to.</p>"
            }
        },
        "StatusMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
            "traits": {
                "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
            }
        },

  "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
            }
        },
        "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
            }
        },
        "EndTime": {
```

"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was completed. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {

"smithy.api#documentation": " Gets information about the specified report generator. "
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. ",
"smithy.api#required":
{}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"ReportGenerator": {
"target": "com.amazonaws.licensemanager#ReportGenerator",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic reports about your license configurations. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

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                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#GetLicenseResponse": {
    "type": "structure",
    "members": {
        "License": {
            "target": "com.amazonaws.licensemanager#License",
            "traits": {
                "smithy.api#documentation": "<p>License details.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},

"com.amazonaws.licensemanager#GetLicenseUsage": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
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"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the usage of the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseUsageRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseUsageResponse": {
"type": "structure",
"members": {
"LicenseUsage": {
"target":
"com.amazonaws.licensemanager#LicenseUsage",
"traits": {
"smithy.api#documentation": " License usage details. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets the License Manager settings for the current Region. "
}
},
"com.amazonaws.licensemanager#GetServiceSettingsRequest": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Regional S3 bucket path for storing reports, license trail event data, discovery data,\n and so on. "

}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " SNS topic configured to receive notifications from License Manager. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Indicates whether Organizations is integrated with License Manager for\n cross-account discovery. "
}
},

"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether cross-account discovery is enabled. "
}

},
"LicenseManagerResourceShareArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource share. The License Manager management account \n provides member accounts with access to this share. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#Grant": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"ParentArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Parent ARN. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. ",

"smithy.api#required": {}
}
},
"GranteePrincipalArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {

"smithy.api#documentation": " The grantee principal ARN. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. ",
"smithy.api#required": {}
}
},
"GrantedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Granted operations. ",
"smithy.api#required": {}
}
},
"Options": {
"target": "com.amazonaws.licensemanager#Options",
"traits": {

"smithy.api#documentation": " The options specified for the grant. "
}
}
},
"traits": {
"smithy.api#documentation":
" Describes a grant. "
}
},
"com.amazonaws.licensemanager#GrantList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Grant"
}
},
"com.amazonaws.licensemanager#GrantStatus": {
"type": "enum",
"members": {
"PENDING_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_WORKFLOW"
}
},
"PENDING_ACCEPT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_ACCEPT"
}
},
"REJECTED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REJECTED"

}
},
"ACTIVE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ACTIVE"
}
},
"FAILED_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "FAILED_WORKFLOW"
}

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            },
            "DELETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DELETED"
                }
            },
            "PENDING_DELETE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_DELETE"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                "traits":
{
                    "smithy.api#enumValue": "DISABLED"
                }
            },
            "WORKFLOW_COMPLETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "WORKFLOW_COMPLETED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GrantedLicense": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>"
                }

  },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product name.</p>"
```

```
            }
        },
        "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product SKU.</p>"
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>Granted license issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the granted license.</p>"

         }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>Granted license status.</p>"
            }
        },
        "Validity": {
            "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {
                "smithy.api#documentation": "<p>Date and time range during which the granted license is valid, in
ISO8601-UTC format.</p>"
            }
        },
        "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Granted license beneficiary.</p>"
            }
        },
        "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
             "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>"
            }
        },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
```

"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Granted license metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Creation time of the granted license. "

}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Version of the granted license. "
}
},
"ReceivedMetadata": {
"target": "com.amazonaws.licensemanager#ReceivedMetadata",
"traits": {
"smithy.api#documentation": " Granted license received metadata. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a license that is granted to a grantee. "
}
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#GrantedLicense"
}
},
"com.amazonaws.licensemanager#ISO8601DateTime":
{
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},

"smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
}
},
"com.amazonaws.licensemanager#Integer": {
"type": "integer"
},
"com.amazonaws.licensemanager#InvalidParameterValueException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidParameterValueProvided",
"httpResponseCode": 400
},
"smithy.api#documentation":
" One or more parameter values are not valid. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#InvalidResourceStateException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidResourceState",
"httpResponseCode": 400
},
"smithy.api#documentation": " License Manager cannot allocate a license to a resource because of its state. \n For example, you cannot allocate a license to an instance in the process of shutting\n down. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},

"com.amazonaws.licensemanager#InventoryFilter": {
"type": "structure",
"members": {

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        "Name": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Name of the filter.</p>",
            "smithy.api#required": {}
          }
        },
        "Condition": {
          "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
          "traits": {
            "smithy.api#documentation": "<p>Condition of the filter.</p>",
            "smithy.api#required": {}
          }
        },
        "Value": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Value of the filter.</p>"
          }
        }

    },
      "traits": {
        "smithy.api#documentation": "<p>An inventory filter.</p>"
      }
    },
    "com.amazonaws.licensemanager#InventoryFilterCondition": {
      "type": "enum",
      "members": {
        "EQUALS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "EQUALS"
          }
        },
        "NOT_EQUALS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "NOT_EQUALS"
          }
        },
        "BEGINS_WITH": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "BEGINS_WITH"
          }
        },
        "CONTAINS": {
```

"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CONTAINS"
}
}
}
},
"com.amazonaws.licensemanager#InventoryFilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#InventoryFilter"
}
},
"com.amazonaws.licensemanager#Issuer": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. ",
"smithy.api#required": {}
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage
of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about the issuer of a license. "
}
},
"com.amazonaws.licensemanager#IssuerDetails": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. "
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer key fingerprint. "
}
}
},
"traits": {
"smithy.api#documentation": " Details associated with the issuer of a license. "
}
},
"com.amazonaws.licensemanager#License": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " License name. "
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " License issuer. "

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            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

        "smithy.api#documentation": "<p>Home Region of the license.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        },
        "Validity": {
            "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {
                "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>"
            }
        },
        "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License beneficiary.</p>"
            }
        },
        "Entitlements": {

    "target": "com.amazonaws.licensemanager#EntitlementList",
            "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>"
            }
        },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
            }
        },
        "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
                "smithy.api#documentation": "<p>License metadata.</p>"
            }
        },
        "CreateTime": {
```

"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License
creation time. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#documentation": " Software license that is managed in License Manager. "
}
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
"type": "structure",
"members": {
"LicenseConfigurationId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Unique ID of the license configuration. "
}
},
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension to use to track the license inventory. "

}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Number of available licenses as a hard limit. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the license configuration. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the license configuration's owner. "

}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",

"traits": {
"smithy.api#documentation": " Summaries for licenses consumed by various resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {

"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},

"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource consuming licenses. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " Time when the license configuration was associated with the resource. "
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an association with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
}
},
"com.amazonaws.licensemanager#LicenseConfigurationStatus": {
"type": "enum",
"members":
{
"AVAILABLE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "AVAILABLE"
}
},
"DISABLED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DISABLED"
}
}

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        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits":
{
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceStatus": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Status of the resource.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
                }
            },
            "AssociationTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time when the license configuration was initially associated with
the resource.</p>"
                }
            },

    "ConsumedLicenses": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about the usage of a resource associated with a license
configuration.</p>"
```

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        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurations": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfiguration"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionContext": {

  "type": "structure",
        "members": {
            "UsageOperation": {
                "target": "com.amazonaws.licensemanager#UsageOperation",
                "traits": {
                    "smithy.api#documentation": "<p>The Usage operation value that corresponds to the license type you
are converting your resource from.  For more information about which platforms correspond to which usage
operation values see <a href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-
fields.html#billing-info\">Sample data: usage operation by platform\n      </a>\n         </p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTask": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {

       "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the license type conversion task.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource associated
with the license type\n         conversion task.</p>"
                }
```

},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted to. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " The status of the conversion task. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was started at. "
}
},
"LicenseConversionTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the usage operation value of the resource was changed. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was completed. "
}
}

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        },
        "traits": {
            "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTaskId": {
        "type": "string",
        "traits": {

       "smithy.api#length": {
                "min": 0,
                "max": 50
            },
            "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
        "type": "enum",
        "members": {
            "IN_PROGRESS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "IN_PROGRESS"
                }
            },
            "SUCCEEDED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "SUCCEEDED"
                }
            },
            "FAILED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "FAILED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTasks":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTask"
        }
    },
    "com.amazonaws.licensemanager#LicenseCountingType": {
        "type": "enum",
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    "members": {
      "VCPU": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "vCPU"
        }
      },
      "INSTANCE": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "Instance"
        }
      },
      "CORE": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "Core"
        }
      },
      "SOCKET": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "Socket"
        }
      }
    }
  },
  "com.amazonaws.licensemanager#LicenseDeletionStatus": {
    "type": "enum",
    "members": {
      "PENDING_DELETE": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "PENDING_DELETE"
        }
      },
      "DELETED": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "DELETED"
        }
      }
    }
  },
  "com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
      "target": "com.amazonaws.licensemanager#License"
```

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        }
    },
    "com.amazonaws.licensemanager#LicenseOperationFailure": {

        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type.</p>"
                }
            },
            "ErrorMessage": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Error message.</p>"
                }
            },
            "FailureTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {

    "smithy.api#documentation": "<p>Failure time.</p>"
                }
            },
            "OperationName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the operation.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the
resource.</p>"
                }
            },
            "OperationRequestedBy": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The requester is \"License Manager Automated Discovery\".</p>"
```

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            }
        },
        "MetadataList": {

            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
                "smithy.api#documentation": "<p>Reserved.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes the failure of a license operation.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#LicenseOperationFailure"
    }
},
"com.amazonaws.licensemanager#LicenseSpecification": {
    "type": "structure",
    "members": {
        "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

            "smithy.api#required": {}
            }
        },
        "AmiAssociationScope": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details for associating a license configuration with a resource.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#LicenseSpecification"
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    }
},
"com.amazonaws.licensemanager#LicenseStatus": {
    "type": "enum",
    "members": {
        "AVAILABLE": {
            "target": "smithy.api#Unit",

        "traits": {
                "smithy.api#enumValue": "AVAILABLE"
            }
        },
        "PENDING_AVAILABLE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_AVAILABLE"
            }
        },
        "DEACTIVATED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DEACTIVATED"
            }
        },
        "SUSPENDED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "SUSPENDED"
            }
        },
        "EXPIRED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EXPIRED"
            }
        },

    "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
```

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            }
        }
    },
    "com.amazonaws.licensemanager#LicenseUsage": {
        "type": "structure",
        "members": {
            "EntitlementUsages": {
                "target": "com.amazonaws.licensemanager#EntitlementUsageList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlement usages.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes the entitlement usage associated with a license.</p>"

        }
    },
    "com.amazonaws.licensemanager#LicenseUsageException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "LicenseUsageFailure",
                "httpResponseCode": 412
            },
            "smithy.api#documentation": "<p>You do not have enough licenses available to support a new resource
launch.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 412
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
        },
        "output": {

    "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
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            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the resource associations for the
 specified license configuration.</p>\n        <p>Resource associations need not consume licenses from a license
configuration. \n        For example, an AMI or a stopped instance might not consume a license (depending on \n
the license rules).</p>"
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results
 to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
```

"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationAssociations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license configuration. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{

"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants distributed for the specified license. "
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranteePrincipalARN</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},

"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",

"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{

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            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the license configuration operations that failed.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
        "type": "structure",
        "members": {
          "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
              "smithy.api#required": {}
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse":
{
        "type": "structure",
        "members": {
          "LicenseOperationFailureList": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
            "traits": {
              "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
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                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurations": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },

    "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations
for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
```

configurations. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next
set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical
operators\n are supported: \n \n \n \n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n
\n <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>. \n
\n \n \n <code>usagelimitExceeded</code> - A Boolean value that
indicates whether the available licenses have been exceeded. \n Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
"type": "structure",
"members": {
"LicenseConfigurations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurations",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",

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        "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#ListLicenseConversionTasks": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      }
    ],
    "traits": {
      "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
    }
  },
  "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
    "type": "structure",
    "members": {
      "NextToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      },
```

"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " \n Filters to scope the results. Valid filters are <code>ResourceArns</code> and <code>Status</code>.\n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
"type": "structure",
"members": {
"LicenseConversionTasks": {
"target": "com.amazonaws.licensemanager#LicenseConversionTasks",
"traits": {
"smithy.api#documentation": " Information about the license configuration tasks for your account. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target":
"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the report generators for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest":
{
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported:
\n \n \n \n <code>LicenseConfigurationArn</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}

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            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits":
 {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
            "ReportGenerators": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorList",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }

        }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
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"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Describes the license configurations for the specified resource. "
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a resource that has an associated license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {

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        "LicenseSpecifications": {
            "target": "com.amazonaws.licensemanager#LicenseSpecifications",
            "traits": {
                "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
            }
        },
        "NextToken": {
             "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
         },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
    "type": "structure",
```

```
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
              "smithy.api#required": {}
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
              "smithy.api#documentation": "<p>License details.</p>"
            }
          },

"NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenses": {
        "type": "operation",
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"input": {
"target": "com.amazonaws.licensemanager#ListLicensesRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicensesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses for your account. "
}
},
"com.amazonaws.licensemanager#ListLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>Status</code>\n \n \n "

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            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token
for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicensesResponse": {
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
              "smithy.api#documentation": "<p>License details.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

  "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedGrants": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
```

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        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists grants that are received. Received grants are grants created while specifying the\n recipient as this Amazon Web Services account, your organization, or an organizational unit\n (OU) to which this member account belongs.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
```

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            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants received for all accounts in the organization.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the received license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n
    <ul>\n        <li>\n        <p>\n        <code>ParentArn</code>\n        </p>\n        </li>\n
<li>\n        <p>\n        <code>GranteePrincipalArn</code>\n        </p>\n        </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
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            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse":
{
        "type": "structure",
        "members": {
            "Grants": {
                "target": "com.amazonaws.licensemanager#GrantList",
                "traits": {
                    "smithy.api#documentation": "<p>Lists the grants the organization has received.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
        "type": "structure",
        "members": {
            "GrantArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                 "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>ProductSKU</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                <code>LicenseIssuerName</code>\n                </p>\n
</li>\n            <li>\n                <p>\n                <code>LicenseArn</code>\n                </p>\n            </li>\n
<li>\n                <p>\n                <code>GrantStatus</code>\n                </p>\n            </li>\n            <li>\n
<p>\n
        <code>GranterAccountId</code>\n                </p>\n            </li>\n        </ul>"
                }
            },
```

```
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
    "type": "structure",
    "members": {
        "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
             "traits": {
                "smithy.api#documentation": "<p>Received grant details.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists received licenses.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
```

```
            },
            {

        "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the licenses received for all accounts in the organization.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>Beneficiary</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                    <code>ProductSKU</code>\n
            </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
        "type": "structure",
        "members": {
            "Licenses": {
                "target": "com.amazonaws.licensemanager#GrantedLicenseList",
```

"traits": {
"smithy.api#documentation": " Lists the licenses the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>IssuerName</code>\n \n \n \n \n <code>Beneficiary</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}

```
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
    "type": "structure",
    "members": {
        "Licenses": {
            "target": "com.amazonaws.licensemanager#GrantedLicenseList",
            "traits": {
                "smithy.api#documentation": "<p>Received license details.</p>"
            }
        },

        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListResourceInventory": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#FailedDependencyException"
        },
        {
            "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
        },
        {
```

"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists resources managed using Systems Manager inventory. "
}
},
"com.amazonaws.licensemanager#ListResourceInventoryRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#InventoryFilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n
\n \n \n <code>application_name</code> - The name of the application. \n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n
\n \n \n <code>license_included</code> - The type of license included. \n
Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n Possible values are <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n
\n <code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n \n \n \n
<code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n
<code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account). \n \n "

```
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryResponse": {
        "type": "structure",
        "members": {
            "ResourceInventoryList": {
                "target": "com.amazonaws.licensemanager#ResourceInventoryList",
                "traits": {
                    "smithy.api#documentation": "<p>Information
about the resources.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the tags for the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the tags.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
```

"errors":
[
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists your tokens. "
}
},
"com.amazonaws.licensemanager#ListTokensRequest": {
"type": "structure",
"members": {
"TokenIds": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " Token IDs. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filter is supported: \n
\n \n \n <code>LicenseArns</code>\n \n \n
"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",

```
            "traits": {
                "smithy.api#documentation":
"<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListTokensResponse": {
    "type": "structure",
    "members": {
        "Tokens": {
            "target": "com.amazonaws.licensemanager#TokenList",
            "traits": {
                "smithy.api#documentation": "<p>Received token details.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
             {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying license\n        consumption details by resource at a selected point in time. Use this action to audit the\n        current license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
             "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>resourceArn</code> - The ARN of the license configuration resource.\n
            Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n
            <li>\n                <p>\n                <code>resourceType</code> - The resource type
```

(<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceAccount</code> - The ID of the account that owns the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
"type": "structure",
"members": {

"LicenseConfigurationUsageList": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#Location": {
"type": "string"
},
"com.amazonaws.licensemanager#Long": {
"type": "long"
},
"com.amazonaws.licensemanager#ManagedResourceSummary": {
"type": "structure",
"members": {
"ResourceType":
{
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of resource associated with a license. "
}

```
        },
        "AssociationCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {

"type": "integer",
    "traits": {
        "smithy.api#range": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " The key name. "
}
},

"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The value. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes key/value pairs. "
}
},
"com.amazonaws.licensemanager#MetadataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Metadata"
}
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#Options": {
"type": "structure",
"members": {
"ActivationOverrideBehavior": {
"target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
"traits": {
"smithy.api#documentation": " An activation option for your grant that determines the behavior of activating a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter. \n \n \n As a license administrator, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant. \n

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</li>\n <li>\n <p>As a grantor, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your organization.</p>\n </li>\n <li>\n <p>As a grantee, if the grantor creating the distributed grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n are activating the grant.</p>\n </li>\n </ul>\n <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n <p>Use this value to activate a grant without replacing any member accounts\n active grants for the same product.</p>\n </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n <p>Use this value to activate a grant and disable other active grants in any\n member accounts
 for the same product. This action will also replace their\n previously activated grants with this activated grant.</p>\n </dd>\n </dl>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The options you can specify when you create a new version of a grant, such as activation\n override behavior. For more information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
      },
      "com.amazonaws.licensemanager#OrganizationConfiguration": {
        "type": "structure",
        "members": {
          "EnableIntegration": {
            "target": "com.amazonaws.licensemanager#Boolean",
            "traits": {
              "smithy.api#default": false,
              "smithy.api#documentation":
 "<p>Enables Organizations integration.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Configuration information for Organizations.</p>"
        }
      },
      "com.amazonaws.licensemanager#PrincipalArnList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#Arn"
        },
        "traits": {
          "smithy.api#length": {
            "min": 1,
            "max": 1
          }
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        }
    },
    "com.amazonaws.licensemanager#ProductInformation": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type. The
possible values are <code>SSM_MANAGED</code> | <code>RDS</code>.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductInformationFilterList": {
                "target": "com.amazonaws.licensemanager#ProductInformationFilterList",
                "traits": {
                    "smithy.api#documentation": "<p>A Product information filter consists of a
<code>ProductInformationFilterComparator</code> which is a logical operator, a
<code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a
<code>ProductInformationFilterValue</code> that specifies the value to filter on. </p>\n        <p>Accepted values
for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for
<code>ProductInformationFilterComparator</code>. </p>\n        <p>The following filters and are supported when
the resource type \n        is <code>SSM_MANAGED</code>:</p>\n
        <ul>\n            <li>\n                <p>\n                <code>Application Name</code> - The name of the
application.\n                Logical operator is <code>EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n                <code>Application Publisher</code> - The publisher of the application.\n                Logical
operator is <code>EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n
<code>Application Version</code> - The version of the application.\n                Logical operator is
<code>EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>Platform
Name</code> - The name of the platform.\n                Logical operator is <code>EQUALS</code>.</p>\n
</li>\n            <li>\n                <p>\n                <code>Platform Type</code> - The platform type.\n
Logical operator is <code>EQUALS</code>.</p>\n
        </li>\n            <li>\n                <p>\n                <code>Tag:key</code> - The key of a tag attached to an
Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is
<code>NOT_EQUALS</code>.  The key for your tag must be appended to <code>Tag:</code> following the
example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you
are not using values for the key.\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from
automated discovery.\n                Logical operator is <code>NOT_EQUALS</code>.</p>\n            </li>\n
<li>\n                <p>\n                <code>License Included</code> - The type of license included.\n                Logical
operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n                Possible values are:
 <code>sql-server-enterprise</code> | \n                <code>sql-server-standard</code> | \n                <code>sql-server-
web</code> |  \n                <code>windows-server-datacenter</code>.</p>\n            </li>\n        </ul>\n
<p>The following filters and logical operators are supported when the resource type\n        is
<code>RDS</code>:</p>\n        <ul>\n            <li>\n                <p>\n                <code>Engine Edition</code> -
The edition of the database engine.\n                Logical operator is <code>EQUALS</code>.\n                Possible
values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-
se2</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>License Pack</code> - The license
```

pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n <code>diagnostic pack sqlt</code> | \n
<code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n
\n ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information for a license configuration. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
"type": "structure",
"members": {
"ProductInformationFilterName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Filter name. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterValue": {
"target": "com.amazonaws.licensemanager#StringList",

"traits": {
"smithy.api#documentation": " Filter value. "
}
},
"ProductInformationFilterComparator": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Logical operator. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information filters. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ProductInformationFilter"
}
},
"com.amazonaws.licensemanager#ProductInformationList": {

"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ProductInformation"
}
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
"type": "structure",
"members": {
"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the provisional configuration, in minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"com.amazonaws.licensemanager#RateLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "RateLimitExceeded",
"httpResponseCode": 429
},
"smithy.api#documentation": " Too many requests have been submitted. Try again after a brief wait. ",
"smithy.api#error": "client",
"smithy.api#httpError": 429
}
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
"type": "structure",
"members": {
"ReceivedStatus": {
"target": "com.amazonaws.licensemanager#ReceivedStatus",
"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {

"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Received
status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations. "
}
}
},
"traits": {
"smithy.api#documentation": " Metadata associated with received licenses and grants. "
}
},
"com.amazonaws.licensemanager#ReceivedStatus": {
"type": "enum",
"members": {
"PENDING_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_WORKFLOW"
}
},
"PENDING_ACCEPT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue":
"PENDING_ACCEPT"
}
},
"REJECTED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REJECTED"
}
},
"ACTIVE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ACTIVE"
}
},
"FAILED_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {

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                "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        },
        "DISABLED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DISABLED"
            }
        },
        "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#RedirectException": {
    "type": "structure",
    "members": {
        "Location": {
            "target": "com.amazonaws.licensemanager#Location",
            "traits": {
                "smithy.api#httpHeader": "Location"
            }
        },
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 308
    }
},
"com.amazonaws.licensemanager#RejectGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#RejectGrantRequest"
    },
    "output": {
```

"target": "com.amazonaws.licensemanager#RejectGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Rejects the specified grant. "
}
},
"com.amazonaws.licensemanager#RejectGrantRequest": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}

}
},
"com.amazonaws.licensemanager#RejectGrantResponse": {
"type": "structure",

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        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Grant version.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#RenewType":
{
        "type": "enum",
        "members": {
          "NONE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "None"
            }
          },
          "WEEKLY": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Weekly"
            }
          },
          "MONTHLY": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Monthly"
            }
          }
        }
      },
```

"com.amazonaws.licensemanager#ReportContext": {
"type": "structure",
"members": {
"licenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details of the license configuration that this generator reports on. "
}
},
"com.amazonaws.licensemanager#ReportFrequency": {
"type": "structure",
"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "
}
},
"period": {
"target": "com.amazonaws.licensemanager#ReportFrequencyType",

"traits": {
"smithy.api#documentation": " Time period between each report. The period can be daily, weekly, or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"com.amazonaws.licensemanager#ReportFrequencyType": {
"type": "enum",
"members": {
"DAY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DAY"
}

```
            },
            "WEEK": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "WEEK"
                }
            },
            "MONTH": {
                "target": "smithy.api#Unit",
                "traits":
{
                    "smithy.api#enumValue": "MONTH"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ReportGenerator": {
        "type": "structure",
        "members": {
            "ReportGeneratorName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>"
                }
            },
            "ReportType": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports that are generated.</p>"
                }
            },
            "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
                    "smithy.api#documentation": "<p>License
configuration type for this generator.</p>"
                }
            },
            "ReportFrequency": {
                "target": "com.amazonaws.licensemanager#ReportFrequency",
                "traits": {
                    "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
                }
            },
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>"
```

}
},
"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}
},
"LastRunFailureReason":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Failure message for the last report generation attempt. "
}
},
"LastReportGenerationTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the last report was generated at. "
}
},
"ReportCreatorAccount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Web Services account ID used to create the report generator. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the report was created. "
}
},

```
        "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
                "smithy.api#documentation": "<p>Tags associated with the report generator.</p>"
            }

}
    },
    "traits": {
        "smithy.api#documentation": "<p>Describe the details of a report generator.</p>"
    }
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportGenerator"
    }
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#ReportType": {
    "type": "enum",
    "members": {
        "LICENSE_CONFIGURATION_SUMMARY_REPORT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "LicenseConfigurationSummaryReport"
            }

},
        "LICENSE_CONFIGURATION_USAGE_REPORT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "LicenseConfigurationUsageReport"
            }
        }
    }
},
"com.amazonaws.licensemanager#ReportTypeList": {
    "type": "list",
    "member": {
```

```
            "target": "com.amazonaws.licensemanager#ReportType"
        }
    },
    "com.amazonaws.licensemanager#ResourceInventory": {
        "type": "structure",
        "members": {
            "ResourceId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits":
{
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "Platform": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform of the resource.</p>"
                }
            },
            "PlatformVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
                }
            },
            "ResourceOwningAccountId":
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a resource.</p>"
        }
```

```
},
"com.amazonaws.licensemanager#ResourceInventoryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ResourceInventory"
    }
},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "ResourceLimitExceeded",

         "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>Your resource limits have been exceeded.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "InvalidResource.NotFound",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The resource cannot be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceType": {
    "type": "enum",
     "members": {
        "EC2_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
```

"smithy.api#enumValue": "EC2_INSTANCE"
}
},
"EC2_HOST": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "EC2_HOST"
}
},
"EC2_AMI": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "EC2_AMI"
}
},
"RDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "RDS"
}
},
"SYSTEMS_MANAGER_MANAGED_INSTANCE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
}
}
}
},
"com.amazonaws.licensemanager#S3Location": {
"type": "structure",
"members": {
"bucket": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the S3 bucket reports are published to. "
}
},
"keyPrefix": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Prefix of the S3 bucket reports are published to. "
}
}
},
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "

```
        }
    },
    "com.amazonaws.licensemanager#ServerInternalException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InternalError",
                "httpResponseCode": 500
            },
            "smithy.api#documentation": "<p>The server experienced an internal error. Try again.</p>",
            "smithy.api#error": "server",
            "smithy.api#httpError": 500
        }
    },
    "com.amazonaws.licensemanager#SignedToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 4096
            }
        }
    },
    "com.amazonaws.licensemanager#StatusReasonMessage": {
        "type": "string",
        "traits":
{
            "smithy.api#length": {
                "min": 0,
                "max": 400
            },
            "smithy.api#pattern": "^[\\s\\S]+$"
        }
    },
    "com.amazonaws.licensemanager#String": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#Tag": {
```

"type": "structure",
"members": {
"Key": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Tag key. "
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation":
" Tag value. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a tag for a license configuration. "
}
},
"com.amazonaws.licensemanager#TagKeyList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#String"
}
},
"com.amazonaws.licensemanager#TagList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Tag"
}
},
"com.amazonaws.licensemanager#TagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#TagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#TagResourceResponse"
},
"errors": [
{
"target":
"com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits":
 {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>One or more tags.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
```

"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. "
}
},
"TokenType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Type of token generated. The supported value is <code>REFRESH_TOKEN</code>. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"ExpirationTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Token expiration time, in ISO8601-UTC format. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller. "
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the roles included in the token. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. "
}
}
},
"traits": {

"smithy.api#documentation": " Describes a token. "
}
},
"com.amazonaws.licensemanager#TokenList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#TokenData"
}
},
"com.amazonaws.licensemanager#TokenString": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 4096
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#TokenType": {
"type": "enum",
"members": {
"REFRESH_TOKEN": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REFRESH_TOKEN"
}
}
}
},
"com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException":
{
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The digital signature method is unsupported. Try your request
again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#UntagResource": {
"type": "operation",

"input": {
"target": "com.amazonaws.licensemanager#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UntagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Removes the specified tags from the specified license configuration. "
}
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",
"traits": {
"smithy.api#documentation": " Keys identifying the tags to remove. ",
"smithy.api#required": {}
}
}
},
"traits": {

```
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#UntagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
        },
        "output": {

"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
         }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"LicenseConfigurationStatus": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
"traits": {
"smithy.api#documentation": " New status of the license configuration. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " New license rule. The only rule that you can add after you create a license\n configuration is licenseAffinityToHost. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " New number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",

"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},

```
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates a report generator.</p>\n        <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to update.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportGeneratorName": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>",
                    "smithy.api#required": {}
                }
            },
            "Type": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports to generate. The following report types are supported:</p>\n        <ul>\n            <li>\n                <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p>\n            </li>\n            <li>\n                <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n            </li>\n        </ul>",
                    "smithy.api#required": {}
                }
            },
            "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
```

"smithy.api#documentation": " The report context. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits":
{
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },

            {
                "target": "com.amazonaws.licensemanager#InvalidResourceStateException"
            },
            {
                "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p>\n        <p>You can update the license specifications of AMIs, instances, and
hosts.\n        You cannot update the license specifications for launch templates and CloudFormation templates, \n
 as they send license configurations to the operation that creates the resource.</p>"
        }
    },

    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "AddLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
                }
            },
```

"RemoveLicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation":
" ARNs of the license configurations to remove. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Updates License Manager settings for the current Region. "
}
},

"com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
"type": "structure",
"members": {
"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon S3 bucket where the License
Manager information is stored. "
}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Enables integration with Organizations for cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Activates cross-account discovery. "

}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UsageOperation": {
"type": "string",
"traits": {
"smithy.api#length": {

```
                "min": 0,
                "max": 50
            }
        }
    },
    "com.amazonaws.licensemanager#ValidationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",

     "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    }
  }
}
```


```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version
 of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
```

```
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack,
options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if
err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
```

```
middleware.Before); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
```

1.3977 ocicrypt 1.1.10

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1.3979 x-mod 0.21.0

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1.3980 x-sys 0.29.0

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1.3981 pgproto3 2.3.1

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1.3982 argcomplete 3.5.3

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1.3983 go-cni 1.1.9

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1.3984 fsutil 0.0.0-20241121093142-31cf1f437184

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1.3985 contrib-instrumentation-google.golang.org-grpc-otelgrpc 0.46.1

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1.3986 container-device-interface-specs-go 0.7.0

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1.3989 etcd-pkg 3.5.6

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1.3994 go-runc 1.1.0

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1.3995 console 1.0.4

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1.3996 etcd-client-pkg 3.5.6

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1.3997 aws-sdk-go-v2-aws-protocol-eventstream 1.5.4

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```
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package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
```

```
 if err != nil {
  return nil,
 err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err !=
 nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
```

```
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack);
err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 if err = addDisableHTTPSMiddleware(stack,
 options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
```

AWS SDK for Go

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```
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]
```

```
  steps:
    - name: Checkout target
      uses: actions/checkout@v2
      with:
        path: sdkbase
        ref: ${{ github.base_ref }}
    - name: Checkout this ref
      uses: actions/checkout@v2
      with:
        path: new-ref
        fetch-depth: 0
    - name: Get Diff
      run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
    - name: Get Target Files
      run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
       uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
```

```
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return
 err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CheckInLicense",
 }
}
{
   "smithy": "2.0",
   "shapes": {
       "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
           "type": "integer"
       },
       "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
           "type": "long"
       },
       "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
```

"type": "structure",
"members": {
"Name": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of name to filter by. "
}
},
"Values": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " One or more values for the name to filter by. "
}
},
"Operator": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
"traits": {
"smithy.api#documentation": " An operator for filtering results. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter object that is used to return more specific results from a describe operation.\n Filters can be used to match a set of resources by specific criteria. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
},
"output": {

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},

```
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the Linux subscriptions service settings.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/GetServiceSettings"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest":
{
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "LinuxSubscriptionsDiscovery": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
                "traits": {
                    "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
                }
            },
            "LinuxSubscriptionsDiscoverySettings": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
                "traits": {
                    "smithy.api#documentation": "<p>Lists the settings defined for Linux subscriptions discovery. The
settings include if\n      Organizations integration has been enabled, and
 which Regions data will be aggregated from.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
                }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
                "traits": {
                    "smithy.api#documentation": "<p>A message which details the Linux subscriptions service settings
current status.</p>"
```

```
            }
        },
        "HomeRegions": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
            "traits": {
                "smithy.api#documentation": "<p>The Region in which License Manager displays
the aggregated data for Linux\n      subscriptions.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
    "type": "structure",
    "members": {
        "AmiId": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The AMI ID used to launch the instance.</p>"
            }
        },
        "InstanceID": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The instance ID of the resource.</p>"
            }
        },
        "InstanceType": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The instance type of the resource.</p>"
            }

    },
        "AccountID": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The account ID which owns the instance.</p>"
            }
        },
        "Status": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The status of the instance.</p>"
            }
        },
        "Region": {
            "target": "smithy.api#String",
            "traits": {
```

"smithy.api#documentation": " The Region the instance is running in. "
}
},
"UsageOperation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The usage operation of the instance. For more information, see For more information, see\n Usage\n operation values in the License Manager User Guide. "
}
},
"ProductCode": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
"traits": {
"smithy.api#documentation": " The product code for the instance. For more information, see Usage\n operation values in the License Manager User Guide . "
}
},
"LastUpdatedTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The time in which the last discovery updated the instance details. "
}
},
"SubscriptionName": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription being used by the instance. "
}
}
},
"traits": {
"smithy.api#documentation": " Details discovered information about a running instance using Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
"type": "structure",
"members": {

```
        "message": {
            "target": "smithy.api#String"
         }
    },
    "traits": {
        "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
        "smithy.api#error": "server"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
    "type": "service",
    "version": "2018-05-10",
    "operations": [
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
        }
    ],

"traits": {
        "aws.api#service": {
            "sdkId": "License Manager Linux Subscriptions",
            "arnNamespace": "license-manager-linux-subscriptions",
            "cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
        },
        "aws.auth#sigv4": {
            "name": "license-manager-linux-subscriptions"
        },
        "aws.protocols#restJson1": {},
        "smithy.api#cors": {
            "additionalAllowedHeaders": [
                "*",
                "content-type",
                "x-amz-content-sha256",
                "x-amz-user-agent",
                "x-amzn-platform-id",
                "x-amzn-trace-id",
                "content-length",
                "x-api-key",
                "authorization",
```

"x-amz-date",

"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"
]
},
"smithy.api#documentation": " With License Manager, you can discover and track your commercial Linux subscriptions on running\n Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager Linux Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"

```
    }
},
"rules": [
    {
        "conditions": [
            {
                "fn": "isSet",
                "argv": [
                    {
                        "ref": "Endpoint"
                    }
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {

          "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseFIPS"
                            },
                            true
                        ]
                    }
                ],
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
                "type": "error"
            },
            {
                "conditions": [],
                "type": "tree",
                "rules": [
                    {

              "conditions": [
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    {
                                        "ref": "UseDualStack"
                                    },
                                    true
                                ]
                            }
```

```
                    ],
                    "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                    "type": "error"
                },
                {
                    "conditions": [],

            "endpoint": {
                        "url": {
                            "ref": "Endpoint"
                        },
                        "properties": {},
                        "headers": {}
                    },
                    "type": "endpoint"
                }
            ]
        }
    ]
},
{
    "conditions": [],
    "type": "tree",
    "rules": [
        {
            "conditions": [
                {
                    "fn": "isSet",

"argv": [
                        {
                            "ref": "Region"
                        }
                    ]
                }
            ],
            "type": "tree",
            "rules": [
                {
                    "conditions": [
                        {
                            "fn": "aws.partition",
                            "argv": [
                                {
                                    "ref": "Region"
                                }
                            ],
```

"assign": "PartitionResult"
}
],
"type": "tree",
"rules": [
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
},
true
]
},

{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseDualStack"
},
true
]
}
],
"type": "tree",
"rules": [
{
"conditions": [
{

"fn": "booleanEquals",
"argv": [
true,
{
"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsFIPS"
]

}
]
},

```
                    {
                      "fn": "booleanEquals",
                      "argv": [
                        true,
                        {
                          "fn": "getAttr",
                          "argv": [
                            {
                              "ref": "PartitionResult"
                            },

                     "supportsDualStack"
                          ]
                        }
                      ]
                    }
                  ],
                  "type": "tree",
                  "rules": [
                    {
                      "conditions": [],
                      "type": "tree",
                      "rules": [
                        {

                "conditions": [],
                          "endpoint": {
                            "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                            "properties": {},
                            "headers": {}
                          },
                          "type": "endpoint"
                        }
                      ]
                    }
                  ]

            },
                {
                  "conditions": [],
                  "error": "FIPS and DualStack are enabled, but this partition does not support
one or both",
                  "type": "error"
                }
              ]
            },
            {
```

"conditions": [
{
"fn": "booleanEquals",
"argv": [
{

"ref": "UseFIPS"
},
true
]
}
],
"type": "tree",
"rules": [
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
true,

{
"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsFIPS"
]
}
]
}
],
"type": "tree",

"rules": [
{
"conditions": [],
"type": "tree",
"rules": [
{
"conditions": [],
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.{Region}.{PartitionResult#dnsSuffix}",
"properties": {},
"headers": {}

```
                    },
                    "type": "endpoint"
                }
            ]
        }
    ]
},
{
    "conditions": [],
    "error": "FIPS is enabled but this partition does not support FIPS",
    "type": "error"
}
]

},
{
    "conditions": [
        {
            "fn": "booleanEquals",
            "argv": [
                {
                    "ref": "UseDualStack"
                },
                true
            ]
        }
    ],
    "type": "tree",
    "rules": [
        {

     "conditions": [
                {
                    "fn": "booleanEquals",
                    "argv": [
                        true,
                        {
                            "fn": "getAttr",
                            "argv": [
                                {
                                    "ref": "PartitionResult"
                                },
                                "supportsDualStack"
                            ]
                        }
                    ]
                }
            ],
```

"type": "tree",
"rules": [
{
"conditions": [],
"type": "tree",
"rules": [
{
"conditions": [],

"endpoint": {
"url": "https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
}
]
},

{
"conditions": [],
"error": "DualStack is enabled but this partition does not support DualStack",
"type": "error"
}
]
},
{
"conditions": [],
"type": "tree",
"rules": [
{
"conditions": [],
"endpoint": {
"url": "https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
}
]
}
]

```
                },
                {
                    "conditions": [],
                    "error": "Invalid Configuration: Missing Region",
                    "type": "error"
                }
            ]
        }
    ]
  },
  "smithy.rules#endpointTests": {
    "testCases": [
      {
        "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
          }
        },
        "params": {
          "Region": "us-east-1",
          "UseFIPS": true,
          "UseDualStack": true
        }
      },
      {
        "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
        "expect": {

"endpoint": {
            "url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
          }
        },
        "params": {
          "Region": "us-east-1",
          "UseFIPS": true,
          "UseDualStack": false
        }
      },
      {
        "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
          }
        },
        "params": {
          "Region": "us-east-1",
```

"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {

"url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {

```
                "url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
            }
        },
        "params": {
            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": true
        }
    },
    {
        "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint":
{
                "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
            }
        },
        "params": {
            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
            }
        },
        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": true,
             "UseDualStack": true
        }
    },
    {
        "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": true,
            "UseDualStack": false
        }
```

```
        },
        {
          "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
          "expect": {
            "endpoint":
{
              "url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
            }
          },
          "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
             "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
          "expect": {
            "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
          },
          "params": {
            "Region": "us-iso-east-1",
            "UseFIPS": true,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
             }
          },
          "params": {
            "Region": "us-iso-east-1",
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"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{

"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {

"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},

"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",

"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack

disabled",

"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,

"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true,
"Endpoint": "https://example.com"
}
},
{
"documentation": "Missing region",
"expect": {
"error": "Invalid Configuration: Missing Region"
}

}
],
"version": "1.0"
}

```
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "name": "Enabled",
                    "value": "Enabled",
                    "documentation": "Enabled LinuxSubscriptionsDiscovery"
                },
                {
                    "name": "Disabled",
                    "value": "Disabled",
                    "documentation": "Disabled LinuxSubscriptionsDiscovery"
                }
            ]
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
        "type": "structure",
        "members": {
            "SourceRegions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                 "traits": {
                    "smithy.api#documentation": "<p>The Regions in which to discover data for Linux
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "OrganizationIntegration": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
                "traits": {
                    "smithy.api#documentation": "<p>Details if you have enabled resource discovery across your
accounts in Organizations.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Lists the settings defined for discovering Linux subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
        "type":
 "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
```

```
        },
        "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the running Amazon EC2 instances that were discovered with
commercial Linux\n      subscriptions.</p>",
            "smithy.api#http": {

      "code": 200,
                "method": "POST",
                "uri": "/subscription/ListLinuxSubscriptionInstances"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "Instances"
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by
 the name of\n        <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n
match, or don't match a certain Amazon Machine Image (AMI) ID.</p>\n        <p>The valid names for this filter
are:</p>\n        <ul>\n            <li>\n                <p>\n                <code>AmiID</code>\n                </p>\n
</li>\n            <li>\n                <p>\n                <code>InstanceID</code>\n                </p>\n            </li>\n
<li>\n                <p>\n                <code>AccountID</code>\n                </p>\n            </li>\n            <li>\n
<p>\n                <code>Status</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>Region</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
```

```
<code>UsageOperation</code>\n            </p>\n          </li>\n          <li>\n
    <p>\n              <code>ProductCode</code>\n            </p>\n          </li>\n          <li>\n            <p>\n
     <code>InstanceType</code>\n            </p>\n          </li>\n        </ul>\n        <p>The valid Operators for this
filter are:</p>\n        <ul>\n          <li>\n            <p>\n              <code>contains</code>\n            </p>\n
</li>\n          <li>\n            <p>\n              <code>equals</code>\n            </p>\n          </li>\n          <li>\n
        <p>\n              <code>Notequal</code>\n            </p>\n          </li>\n        </ul>"
              }
            },
            "MaxResults": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
              "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"

      }
            },
            "NextToken": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>",
                "smithy.api#length": {
                  "min": 1,
                  "max": 16384
                }
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
          "type": "structure",
          "members": {
            "Instances": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
              "traits": {
                "smithy.api#documentation":
 "<p>An array that contains instance objects.</p>"
              }
            },
            "NextToken": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            }
          }
```

```
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
             },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the Linux subscriptions that have been discovered. If you have
linked your\n      organization, the returned results will include data aggregated across your accounts in\n
Organizations.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/ListLinuxSubscriptions"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "Subscriptions"
            }

        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by the name of\n
 <code>Subscription</code> with an optional operator to see subscriptions that match,\n      partially match, or don't
```

match a certain subscription's name. \n The valid names for this filter are: \n \n
\n \n <code>Subscription</code>\n \n \n \n
The valid Operators for this filter are: \n
\n \n \n <code>contains</code>\n \n \n
\n \n <code>equals</code>\n \n \n \n \n
<code>Notequal</code>\n \n \n "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. ",
"smithy.api#length": {

"min": 1,
"max": 16384
}
}
}
},
"traits": {
"smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
"type": "structure",
"members": {
"Subscriptions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
"traits": {
"smithy.api#documentation": " An array that contains subscription objects. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for
the next set of results. "
}
}
}

```
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "name": "EQUAL",
                    "value": "Equal",
                    "documentation": "Equal operator"
                },
                {
                    "name": "NOT_EQUAL",
                    "value": "NotEqual",
                    "documentation": "Not equal operator"
                },
                {
                    "name": "CONTAINS",
                    "value": "Contains",
                    "documentation": "Contains operator"
                }
            ],
            "smithy.api#length": {
                "min": 1,
                "max": 20
            }
        }
    },

"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "name": "Enabled",
                    "value": "Enabled",
                    "documentation": "Enabled OrganizationIntegration"
                },
                {
                    "name": "Disabled",
                    "value": "Disabled",
                    "documentation": "Disabled OrganizationIntegration"
                }
            ]
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
        "type": "list",
        "member": {
```

"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
"type": "string",
"traits": {
"smithy.api#enum": [

{
"name": "InProgress",
"value": "InProgress",
"documentation": "InProgress status"
},
{
"name": "Completed",
"value": "Completed",
"documentation": "Completed status"
},
{
"name": "Successful",
"value": "Successful",
"documentation": "Successful status"
},
{
"name": "Failed",
"value": "Failed",
"documentation": "Failed status"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
"type": "list",
"member": {
"target": "smithy.api#String",
"traits":
{
"smithy.api#length": {
"min": 1,
"max": 100
}
}
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
},

"smithy.api#uniqueItems": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
"type": "map",
"key": {
"target": "smithy.api#String"
},
"value": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
"type": "structure",
"members": {
"Name": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription. "

}
},
"Type": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own\n Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the\n Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS. "
}
},
"InstanceCount": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
"traits": {
"smithy.api#documentation": " The total amount of running instances using this subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " An object which details a discovered Linux subscription. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
}

```
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request was denied due to request throttling.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
        },

    "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates the service settings for Linux subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/UpdateServiceSettings"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest":
{
        "type": "structure",
        "members": {
            "LinuxSubscriptionsDiscovery": {
```

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Describes if the discovery of Linux subscriptions is enabled. ",
"smithy.api#required": {}
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. ",

"smithy.api#required": {}
}
},
"AllowUpdate": {
"target": "smithy.api#Boolean",
"traits": {
"smithy.api#documentation": " Describes if updates are allowed to the service settings for Linux subscriptions. If you\n allow updates, you can aggregate Linux subscription data in more than one home Region. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},

"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being

applied. "
                }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
                "traits": {
                    "smithy.api#documentation":
 " A message which details the Linux subscriptions service settings current status. "
                }
            },
            "HomeRegions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                "traits": {
                    "smithy.api#documentation": " The Region in which License Manager displays the aggregated
data for Linux\n   subscriptions. "
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": " The provided input is not valid. Try your request again. ",
            "smithy.api#error": "client"
        }
    }
  }
}

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
```

```
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - Beneficiary
 //   - ProductSKU
 //   - Fingerprint
 //
   - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
```

```
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if
 err := addProtocolFinalizerMiddlewares(stack, options, "ListLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
```

```
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
     ServiceID,
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana
```

```
import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 //
 This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
```

```
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack,
 options, "DisassociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
```

```
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
```

```
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource
 Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
```

```
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil
 {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
```

```
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}
```

```
func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier
 that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string
```

```
 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string
```

```
 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
```

```
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return
 err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}
```

```
func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide
```

```
to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional
// configuration for workloads running with continuous connectivity. Choose a
// borrow configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity
```

```
 *types.DatetimeRange

 // Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
  return fmt.Errorf("add
 protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName:
 "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
```

```
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
```

```
 return
err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack);
err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "GetLicense",
 }
}
```

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DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE

```
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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
   - ProductSKU
 //   - Status
 //   - Fingerprint
 //   - IssuerName
 //   - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
```

```
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
 middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
```

```
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
 }
}
```

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```
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
        "smithy.api#error": "client"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
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"type": "structure",
"members": {
"DirectoryId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The directory ID for an Active Directory identity provider. "
}
}
},
"traits": {
"smithy.api#documentation":
" Details about an Active Directory identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Associates the user to an EC2 instance to utilize user-based
subscriptions. \n <note>\n Your estimated bill for charges on the number of users and related

costs will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more information, see Viewing your\n monthly charges in the Amazon Web Services Billing User Guide. \n </note>",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/AssociateUser"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " The identity provider of the user. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
"type": "structure",
"members": {

"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
"type": "integer"
},
"com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request couldn't be completed because it conflicted with the current state of the\n resource. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{

"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deregisters the identity provider from providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/DeregisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}

```
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Disassociates the user from an EC2 instance providing user-based
subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/DisassociateUser"
            },
            "smithy.api#idempotent": {}
        }

 },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
```

"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
}
},

"com.amazonaws.licensemanagerusersubscriptions#Filter": {
"type": "structure",

```
        "members": {
          "Attribute": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of an attribute to use as a filter.</p>"
            }
          },
          "Operation": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The type of search (For example, eq, geq, leq)</p>"
            }
          },
          "Value": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Value of the filter.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>A filter name and value pair that is used
 to return more specific results from a describe\n      operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n      attributes, or IDs.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#FilterList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
        "type": "union",
        "members": {
          "ActiveDirectoryIdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
            "traits": {
              "smithy.api#documentation": "<p>An object that details an Active Directory identity provider.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation":
 "<p>Details about an identity provider.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
```

"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " An object that details the registered identity providers product related configuration\n settings such as the subnets to provision VPC endpoints. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of an identity provider. ",
"smithy.api#required": {}
}
},
"FailureMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The failure message associated with an identity provider. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"

```
            }
        },
        "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
            "type": "structure",
            "members": {
                "InstanceId": {
                    "target": "smithy.api#String",
                    "traits": {
                        "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                        "smithy.api#required": {}
                    }
                },
                "Status": {
                    "target": "smithy.api#String",
                    "traits": {
                        "smithy.api#documentation": "<p>The status
 of an EC2 instance resource.</p>",
                        "smithy.api#required": {}
                    }
                },
                "Products": {
                    "target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
                    "traits": {
                        "smithy.api#documentation": "<p>A list of provided user-based subscription products.</p>",
                        "smithy.api#required": {}
                    }
                },
                "LastStatusCheckDate": {
                    "target": "smithy.api#String",
                    "traits": {
                        "smithy.api#documentation": "<p>The date of the last status check.</p>"
                    }
                },
                "StatusMessage": {
                    "target": "smithy.api#String",
                    "traits": {
                        "smithy.api#documentation": "<p>The status message for an EC2 instance.</p>"
                    }

        }
            },
            "traits": {
                "smithy.api#documentation": "<p>Describes an EC2 instance providing user-based subscriptions.</p>"
            }
        },
        "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
            "type": "list",
```

```
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits":
 {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status of a user associated with an EC2 instance.</p>",
                    "smithy.api#required": {}
                }
            },
            "StatusMessage": {
                "target": "smithy.api#String",
                 "traits": {
                    "smithy.api#documentation": "<p>The status message for users of an EC2 instance.</p>"
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
```

```
            },
            "AssociationDate": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The date a user was associated with an EC2 instance.</p>"
                }
            },
            "DisassociationDate": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The date a user was disassociated from an EC2 instance.</p>"
                }
            }

    },
        "traits": {
            "smithy.api#documentation": "<p>Describes users of an EC2 instance providing user-based
subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
            "smithy.api#error": "server"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
        "type": "service",

     "version": "2018-05-10",
        "operations": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
```

```
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

    },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
        }
      ],
      "traits": {
        "aws.api#service": {
          "sdkId": "License Manager User Subscriptions",
          "arnNamespace": "license-manager-user-subscriptions",
          "cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
        },
        "aws.auth#sigv4": {
          "name": "license-manager-user-subscriptions"
         },
        "aws.protocols#restJson1": {},
        "smithy.api#cors": {
          "additionalAllowedHeaders": [
            "*",
            "content-type",
            "x-amz-content-sha256",
            "x-amz-user-agent",
            "x-amzn-platform-id",
            "x-amzn-trace-id",
```

"content-length",
"x-api-key",
"authorization",
"x-amz-date",
"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"

]
},
"smithy.api#documentation": " With License Manager, you can create user-based subscriptions to utilize licensed software with\n a per user subscription fee on Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager User Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
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"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
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"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",

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            "type": "String"
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        "rules": [
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                "argv": [
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                  }
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              }
            ],
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            "rules": [
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                    "fn": "booleanEquals",
                    "argv": [
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                        "ref": "UseFIPS"
                      },

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                "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
                "type": "error"
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                    "fn": "booleanEquals",
                    "argv": [
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                        "ref": "UseDualStack"
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"type": "error"
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"conditions": [],
"endpoint": {
"url": {
"ref": "Endpoint"
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"properties": {},
"headers": {}
},
"type": "endpoint"
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"fn": "isSet",
"argv": [

{
"ref": "Region"
}
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"type": "tree",
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"argv": [
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"ref": "Region"
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"assign": "PartitionResult"
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"type": "tree",

"rules": [
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"conditions": [
{

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              {
                "fn": "booleanEquals",
                "argv": [
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                    "ref": "UseDualStack"

                  },
                  true
                ]
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            "type": "tree",
            "rules": [
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                    "argv": [
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                      {
                        "fn": "getAttr",

"argv": [
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                            "ref": "PartitionResult"
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                          "supportsFIPS"
                        ]
                      }
                    ]
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"supportsDualStack"
]
}
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"type": "tree",
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"conditions": [],
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"properties": {},
"headers": {}
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"type": "endpoint"
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"conditions": [],
"error": "FIPS and DualStack are enabled, but this partition does not support one or both",
"type": "error"
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                            },
                            "supportsFIPS"

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                    }
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fips.{Region}.{PartitionResult#dnsSuffix}",
                        "properties": {},
                        "headers": {}

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                      "type": "endpoint"
                    }
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                  "error": "FIPS is enabled but this partition does not support FIPS",
                  "type": "error"
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                      "ref": "UseDualStack"
                    },
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                                  "argv": [
                                      {
                                          "ref": "PartitionResult"
                                      },
                                      "supportsDualStack"
                                  ]
                            }
                        ]
                    }
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subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                            "properties": {},
                            "headers": {}
                        },
                        "type": "endpoint"
                    }
                ]
            },
            {
                "conditions": [],
                "error": "DualStack is enabled but this partition does
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                "type": "error"
            }
        ]
    },
    {
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subscriptions.{Region}.{PartitionResult#dnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
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},
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"conditions":
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"error": "Invalid Configuration: Missing Region",
"type": "error"
}
]
},
"smithy.rules#endpointTests": {
"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": true
}
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"documentation":
"For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false

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            "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
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                    "url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
                }
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        "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true
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            "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
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            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": false
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            "documentation": "For region cn-north-1 with
 FIPS enabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
                }
            },
            "params": {
                "Region": "cn-north-1",
                "UseFIPS": true,
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            }
        },
        {
            "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
            "expect": {
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"url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
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"params": {
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"UseDualStack": false
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}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
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{
"documentation": "For region cn-north-1
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"expect": {
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"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
}
},

"params": {
"Region": "us-gov-east-1",
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"UseDualStack": true
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"params": {
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"params": {
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"UseFIPS": false,
"UseDualStack": false
}
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"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"

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            },
            "params": {
              "Region": "us-iso-east-1",
              "UseFIPS": true,
              "UseDualStack": true
            }
          },
          {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
            "expect":
{
              "endpoint": {
                "url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
              }
            },
            "params": {
              "Region": "us-iso-east-1",
              "UseFIPS": true,
              "UseDualStack": false
            }
          },
          {
            "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
              "error": "DualStack is enabled but this partition does not support DualStack"
            },
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              "UseFIPS": false,
              "UseDualStack":
true
            }
          },
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            "expect": {
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                "url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
              }
            },
            "params": {
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              "UseDualStack": false
            }
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            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
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"expect": {
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"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
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"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
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"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
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{
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"expect": {
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}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
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        {
          "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
          "expect": {
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            }
          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": false,
            "Endpoint": "https://example.com"
          }
        },
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"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
          "expect": {
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            }
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          "params": {
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            "UseDualStack": false,
            "Endpoint": "https://example.com"
          }
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          "documentation": "For custom endpoint with fips enabled and dualstack disabled",
          "expect": {
            "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
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          "params": {
            "Region": "us-east-1",
             "UseFIPS": true,
            "UseDualStack": false,
            "Endpoint": "https://example.com"
          }
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          "expect": {
            "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
          },
          "params": {
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            "UseFIPS": false,
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                "UseDualStack": true,
                "Endpoint": "https://example.com"
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        {
            "documentation": "Missing region",
            "expect": {
                "error": "Invalid Configuration: Missing Region"
            }
        }
    ],
    "version": "1.0"
  }
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
    }
  ],
  "traits": {
    "smithy.api#documentation": "<p>Lists the identity providers for user-based subscriptions.</p>",
```

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            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/ListIdentityProviders"
            },
            "smithy.api#paginated":
{
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "IdentityProviderSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
{
        "type": "structure",
        "members": {
            "IdentityProviderSummaries": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
                    "smithy.api#required": {}
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
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    }
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
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    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
    },
    "errors": [
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        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
        "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/instance/ListInstances"
        },
        "smithy.api#paginated": {
            "inputToken": "NextToken",
            "outputToken": "NextToken",
            "pageSize": "MaxResults",
            "items": "InstanceSummaries"
        }
    }
},
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"com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
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"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
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"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
"type": "structure",
"members": {
"InstanceSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list instances operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
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"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
},
"output": {

"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
},
"errors": [
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"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the user-based subscription products available from an identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/ListProductSubscriptions"
},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "ProductUserSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
"type": "structure",
"members": {
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name

of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {

"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
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"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
"type": "structure",
"members": {
"ProductUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list product subscriptions operation. "
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "

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                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
        },
        "errors": [
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                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target":
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists user associations for an identity provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListUserAssociations"
            },
            "smithy.api#paginated":
{
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
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"items": "InstanceUserSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
"type": "structure",
"members": {
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
"type": "structure",
"members": {

```
        "InstanceUserSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Metadata that describes the list user association operation.</p>"
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
  },
  "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
    "type": "structure",
    "members": {

    "Username": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                "smithy.api#required": {}
            }
        },
        "Product": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                "smithy.api#required": {}
            }
        },
        "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
                "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                "smithy.api#required": {}
            }

  },
        "Status": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The status of a product for a user.</p>",
                "smithy.api#required": {}
            }
        },
        "StatusMessage": {
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"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for a product for a user. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"SubscriptionStartDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The
start date of a subscription. "
}
},
"SubscriptionEndDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The end date of a subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " The summary of the user-based subscription products for a user. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{

"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Registers an identity provider for user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/RegisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",

"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings such as the\n subnets to provision VPC endpoints. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary":
{
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The resource couldn't be found. ",
"smithy.api#error": "client",
"smithy.api#httpError": 404
}
},
"com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
"type": "string",

"traits": {
"smithy.api#length": {
"min": 5,
"max": 200
},
"smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
"type": "structure",
"members": {

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            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request failed because a service quota is exceeded.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Settings": {
        "type": "structure",
        "members": {
            "Subnets": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
                "traits": {
                    "smithy.api#documentation":
 "<p>The subnets defined for the registered identity provider.</p>",
                    "smithy.api#length": {
                        "min": 1
                    },
                    "smithy.api#required": {}
                }
            },
            "SecurityGroupId": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
                "traits": {
                    "smithy.api#documentation": "<p>A security group ID that allows inbound TCP port 1688
communication between resources in\n      your VPC and the VPC endpoint for activation servers.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The registered identity providers product related configuration settings
such as the\n      subnets to provision VPC endpoints, and the security group ID that
 is associated with the VPC\n      endpoints. The security group should permit inbound TCP port 1688
communication from resources\n      in the VPC.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
        },
        "errors": [
```

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            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Starts a product subscription for a user with the specified identity
provider.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related costs
will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status)
in Amazon Web Services Billing.
 For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n          monthly
charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/StartProductSubscription"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
```

"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
"type": "structure",
"members": {
"ProductUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the start product subscription operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

},
{

"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Stops a product subscription for a user with the specified identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/StopProductSubscription"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required":
{}
}
},
"Product": {
"target": "smithy.api#String",

"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
"type": "structure",
"members": {
"ProductUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
"traits": {
"smithy.api#documentation":
" Metadata that describes the start product subscription operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StringList": {
"type": "list",
"member": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Subnet": {
"type": "string",
"traits": {
"smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Subnets": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
"type": "structure",
"members": {
"message": {

"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request was denied because of request throttling. Retry the request. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates additional product configuration settings for the registered identity\n provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/UpdateIdentityProviderSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",

"traits": {
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"UpdateSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings. You can\n update any combination of settings in a single operation such as the: \n \n \n Subnets which you want to add to provision VPC endpoints. \n \n \n Subnets which you want to remove the VPC endpoints from. \n \n \n Security group ID which permits traffic to the VPC endpoints. \n \n ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
"type": "structure",
"members": {
"AddSubnets": {

"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets in which License Manager will create a VPC endpoint for products that\n require connectivity to activation servers. ",
"smithy.api#required": {}
}
},
"RemoveSubnets": {

"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets to remove. ",
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID
that allows inbound TCP port 1688 communication between resources in\n your VPC and the VPC endpoints for activation servers. "
}
}
},
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings such as\n the subnets to provision VPC endpoints. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " A parameter is not valid. ",
"smithy.api#error": "client"
}
}
}
}
{
"smithy": "2.0",
"metadata": {
"suppressions": [
{
"id": "HttpMethodSemantics",
"namespace": "*"
},
{
"id": "HttpResponseCodeSemantics",
"namespace": "*"
},
{
"id": "PaginatedTrait",

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            "namespace": "*"
        },
        {
            "id": "HttpHeaderTrait",
            "namespace": "*"
        },
        {
            "id": "HttpUriConflict",
            "namespace": "*"
        },
        {
            "id": "Service",
            "namespace": "*"
        }
    ]
},
"shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
        "type": "service",
        "version": "2018-08-01",
        "operations": [
            {
                "target": "com.amazonaws.licensemanager#AcceptGrant"
            },

 {
                "target": "com.amazonaws.licensemanager#CheckInLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CheckoutLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateGrant"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateGrantVersion"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
```

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    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseVersion"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateToken"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteToken"
    },
    {
      "target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

  },
    {
      "target": "com.amazonaws.licensemanager#GetAccessToken"
    },
    {
      "target": "com.amazonaws.licensemanager#GetGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
    },
    {
```

"target": "com.amazonaws.licensemanager#GetLicenseUsage"
},
{
"target": "com.amazonaws.licensemanager#GetServiceSettings"
},
{
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#ListDistributedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
"target": "com.amazonaws.licensemanager#ListLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

"target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization"
},
{
"target": "com.amazonaws.licensemanager#ListResourceInventory"
},

{
"target": "com.amazonaws.licensemanager#ListTagsForResource"
},
{
"target": "com.amazonaws.licensemanager#ListTokens"
},
{
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#RejectGrant"
},
{
"target": "com.amazonaws.licensemanager#TagResource"
},
{
"target": "com.amazonaws.licensemanager#UntagResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateServiceSettings"
}
],
"traits": {
"aws.api#service": {
"sdkId": "License Manager",
"arnNamespace": "license-manager",
"cloudFormationName": "LicenseManager",
"cloudTrailEventSource": "licensemanager.amazonaws.com",
"endpointPrefix": "license-manager"
},
"aws.auth#sigv4": {
"name": "license-manager"
},
"aws.protocols#awsJson1_1": {},
"smithy.api#documentation": " License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers. ",
"smithy.api#title": "AWS License Manager",
"smithy.api#xmlNamespace": {
"uri": "https://license-manager.amazonaws.com/doc/2018_08_01"

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        },
        "smithy.rules#endpointRuleSet": {
          "version": "1.0",
          "parameters": {
            "Region": {
              "builtIn": "AWS::Region",
              "required": false,
              "documentation": "The AWS region used to dispatch the request.",
              "type": "String"
            },
            "UseDualStack": {
              "builtIn": "AWS::UseDualStack",
              "required": true,
              "default": false,
              "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
              "type": "Boolean"
            },
            "UseFIPS": {
              "builtIn": "AWS::UseFIPS",
              "required": true,
              "default": false,
              "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
              "type": "Boolean"
            },
            "Endpoint": {
              "builtIn": "SDK::Endpoint",
              "required": false,
              "documentation": "Override the endpoint used to send this request",
              "type": "String"
            }
          },
          "rules": [
            {
              "conditions": [
                {
                  "fn": "isSet",
                  "argv": [
                    {
                      "ref": "Endpoint"
                    }
                  ]

              }
              ],
              "type": "tree",
```

```
            "rules": [
              {
                "conditions": [
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseFIPS"
                      },
                      true
                    ]
                  }
                ],
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
                "type": "error"
              },
              {

"conditions": [
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseDualStack"
                      },
                      true
                    ]
                  }
                ],
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                "type": "error"
              },
              {
                "conditions": [],
                "endpoint": {
                  "url": {
                    "ref": "Endpoint"
                  },
                  "properties": {},
                  "headers": {}
                },
                "type": "endpoint"
              }
            ]
          },
          {
            "conditions": [
              {
```

```
                "fn": "isSet",
                "argv": [
                  {
                    "ref": "Region"
                  }
                ]
              }
            ],
            "type": "tree",
            "rules": [
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                "conditions": [
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                    "fn": "aws.partition",
                    "argv": [
                      {
                        "ref": "Region"
                      }
                    ],
                    "assign": "PartitionResult"
                  }
                ],
                "type": "tree",
                "rules": [
                  {
                    "conditions": [
                      {
                        "fn": "booleanEquals",
                        "argv": [
                          {
                            "ref":
"UseFIPS"
                          },
                          true
                        ]
                      },
                      {
                        "fn": "booleanEquals",
                        "argv": [
                          {
                            "ref": "UseDualStack"
                          },
                          true
                        ]
                      }
                    ],
                    "type": "tree",
                    "rules": [
```

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{
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          true,
          {
            "fn": "getAttr",
            "argv": [
              {
                "ref": "PartitionResult"
              },
              "supportsFIPS"
            ]

  }
        ]
      },
      {
        "fn": "booleanEquals",
        "argv": [
          true,
          {
            "fn": "getAttr",
            "argv": [
              {
                "ref": "PartitionResult"
              },

"supportsDualStack"
            ]
          }
        ]
      }
    ],
    "type": "tree",
    "rules": [
      {
        "conditions": [],
        "endpoint": {
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fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
          "properties": {},
          "headers": {}

},
        "type": "endpoint"
      }
```

```
                ]
            },
            {
                "conditions": [],
                "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
                "type": "error"
            }
        ]
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        "argv": [
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                    },
                    true
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{
                            "fn": "getAttr",
                            "argv": [
                                {
                                    "ref": "PartitionResult"
                                },
                                "supportsFIPS"
                            ]
                        }
                    ]
                }
                ],
                "type": "tree",
                "rules": [
```

```
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                        "conditions": [],
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                            "properties": {},
                            "headers": {}
                        },
                        "type": "endpoint"
                    }
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            {
                "conditions": [],
                "error": "FIPS is enabled but this
partition does not support FIPS",
                "type": "error"
            }
        ]
    },
    {
        "conditions": [
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                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseDualStack"
                    },
                    true
                ]
            }
        ],
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         "rules": [
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                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
                            {
                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },

"supportsDualStack"
                                ]
```

```
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                                ]
                            }
                        ],
                        "type": "tree",
                        "rules": [
                            {
                                "conditions": [],
                                "endpoint": {
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manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                    "properties": {},
                                    "headers": {}

                        },
                                "type": "endpoint"
                            }
                        ]
                    },
                    {
                        "conditions": [],
                        "error": "DualStack is enabled but this partition does not support DualStack",
                        "type": "error"
                    }
                ]
            },
            {
                "conditions": [],
                "endpoint": {
                    "url": "https://license-manager.{Region}.{PartitionResult#dnsSuffix}",
                     "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ]
    }
]
},
{
    "conditions": [],
    "error": "Invalid Configuration: Missing Region",
    "type": "error"
}
]
},
"smithy.rules#endpointTests": {
    "testCases": [
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          "expect": {
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              "url": "https://license-manager.af-south-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "af-south-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
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        {
          "documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ap-east-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "ap-east-1",
            "UseFIPS": false,
            "UseDualStack": false
           }
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          "expect": {
            "endpoint": {
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            }
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          "params": {
            "Region": "ap-northeast-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
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        {
          "documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ap-northeast-2.amazonaws.com"
             }
          },
          "params": {
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"Region": "ap-northeast-2",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
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"endpoint": {
"url": "https://license-manager.ap-northeast-3.amazonaws.com"
}
},
"params": {
"Region": "ap-northeast-3",
"UseFIPS": false,
"UseDualStack": false
}

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{
"documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-south-1.amazonaws.com"
}
},
"params": {
"Region": "ap-south-1",
"UseFIPS": false,
"UseDualStack": false
}
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"documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-southeast-1.amazonaws.com"

}
},
"params": {
"Region": "ap-southeast-1",
"UseFIPS": false,
"UseDualStack": false
}
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{
"documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",

"expect": {
"endpoint": {
"url": "https://license-manager.ap-southeast-2.amazonaws.com"
}
},
"params": {
"Region": "ap-southeast-2",
"UseFIPS": false,
"UseDualStack": false
}
},
{

"documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-southeast-3.amazonaws.com"
}
},
"params": {
"Region": "ap-southeast-3",
"UseFIPS": false,
"UseDualStack": false
}
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{
"documentation": "For region ca-central-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ca-central-1.amazonaws.com"
}
},

"params": {
"Region": "ca-central-1",
"UseFIPS": false,
"UseDualStack": false
}
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{
"documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-central-1.amazonaws.com"
}
},
"params": {
"Region": "eu-central-1",

"UseFIPS": false,
"UseDualStack": false
}
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"documentation": "For region eu-north-1 with FIPS
disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-north-1.amazonaws.com"
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},
"params": {
"Region": "eu-north-1",
"UseFIPS": false,
"UseDualStack": false
}
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{
"documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-south-1.amazonaws.com"
}
},
"params": {
"Region":
"eu-south-1",
"UseFIPS": false,
"UseDualStack": false
}
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{
"documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-west-1.amazonaws.com"
}
},
"params": {
"Region": "eu-west-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
"expect": {

"endpoint": {
"url": "https://license-manager.eu-west-2.amazonaws.com"
}
},
"params": {
"Region": "eu-west-2",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region eu-west-3 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-west-3.amazonaws.com"
}
},
"params": {
"Region": "eu-west-3",
"UseFIPS": false,

"UseDualStack": false
}
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"documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
"expect": {
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"url": "https://license-manager.me-south-1.amazonaws.com"
}
},
"params": {
"Region": "me-south-1",
"UseFIPS": false,
"UseDualStack": false
}
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"documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
"expect": {
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"url": "https://license-manager.sa-east-1.amazonaws.com"
}
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"params": {
"Region": "sa-east-1",
"UseFIPS": false,

"UseDualStack": false
}
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"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
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{
"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-east-1.amazonaws.com"
}
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"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-east-2.amazonaws.com"
}

},
"params": {
"Region": "us-east-2",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {

"url": "https://license-manager-fips.us-east-2.amazonaws.com"
}
},
"params": {
"Region": "us-east-2",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region
us-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-west-1.amazonaws.com"
}
},
"params": {
"Region": "us-west-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-west-1.amazonaws.com"
}
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"params": {

"Region": "us-west-1",
"UseFIPS": true,
"UseDualStack": false
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"documentation": "For region us-west-2 with FIPS disabled and DualStack disabled",
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"url": "https://license-manager.us-west-2.amazonaws.com"
}
},
"params": {
"Region": "us-west-2",
"UseFIPS": false,
"UseDualStack": false

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            }
        },
        {
            "documentation": "For region us-west-2 with FIPS enabled and DualStack disabled",

"expect": {
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                    "url": "https://license-manager-fips.us-west-2.amazonaws.com"
                }
            },
            "params": {
                "Region": "us-west-2",
                "UseFIPS": true,
                "UseDualStack": false
            }
        },
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            "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-fips.us-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": true,

                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.us-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url":
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"https://license-manager.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-northwest-1",
"UseFIPS": false,
"UseDualStack": false

}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
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{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}

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      },
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        "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
          }
        },
        "params": {
          "Region": "cn-north-1",
          "UseFIPS": false,
          "UseDualStack": true
        }
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        "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager.us-gov-east-1.amazonaws.com"
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        "params": {
          "Region": "us-gov-east-1",
          "UseFIPS": false,
          "UseDualStack": false
        }
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      {
        "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
          }
         },
        "params": {
          "Region": "us-gov-east-1",
          "UseFIPS": true,
          "UseDualStack": false
        }
      },
      {
        "documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager.us-gov-west-1.amazonaws.com"
          }
        },
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"params": {
"Region": "us-gov-west-1",
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"UseDualStack": false
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"documentation":
"For region us-gov-west-1 with FIPS enabled and DualStack disabled",
"expect": {
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"params": {
"Region": "us-gov-west-1",
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"UseDualStack": false
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"Region": "us-gov-east-1",
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"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
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"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
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},
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"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": true
}

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      },
      {
        "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
          }
        },
        "params": {
          "Region": "us-isob-east-1",
          "UseFIPS": false,
          "UseDualStack": false
        }
      },

    {
        "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
        "expect": {
          "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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        "params": {
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          "UseFIPS": true,
          "UseDualStack": true
        }
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      {
        "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
          }
        },

"params": {
          "Region": "us-isob-east-1",
          "UseFIPS": true,
          "UseDualStack": false
        }
      },
      {
        "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
        "expect": {
          "error": "DualStack is enabled but this partition does not support DualStack"
        },
        "params": {
          "Region": "us-isob-east-1",
          "UseFIPS": false,
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"UseDualStack": true
}
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"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,

"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {

"error":
"Invalid Configuration: Dualstack and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true,
"Endpoint": "https://example.com"
}
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{
"documentation": "Missing region",
"expect": {
"error": "Invalid Configuration: Missing Region"
}
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"version": "1.0"
}
}
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"com.amazonaws.licensemanager#AcceptGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#AcceptGrantRequest"

},
"output": {
"target": "com.amazonaws.licensemanager#AcceptGrantResponse"
},
"errors": [
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"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"

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            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"

    }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
        }
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    "com.amazonaws.licensemanager#AcceptGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant
ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        },
```

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#AccessDeniedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {

"code": "ServiceAccessDenied",
"httpResponseCode": 401
},
"smithy.api#documentation": " Access to resource denied. ",
"smithy.api#error": "client",
"smithy.api#httpError": 401
}
},
"com.amazonaws.licensemanager#ActivationOverrideBehavior": {
"type": "enum",
"members": {
"DISTRIBUTED_GRANTS_ONLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
}
},
"ALL_GRANTS_PERMITTED_BY_ISSUER": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
}
}
}
},
"com.amazonaws.licensemanager#AllowedOperation": {

"type": "enum",
"members": {
"CREATE_GRANT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CreateGrant"
}

```
            },
            "CHECKOUT_LICENSE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "CheckoutLicense"
                }
            },
            "CHECKOUT_BORROW_LICENSE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "CheckoutBorrowLicense"
                }
            },
            "CHECK_IN_LICENSE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "CheckInLicense"
                }
            },
            "EXTEND_CONSUMPTION_LICENSE":
{
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "ExtendConsumptionLicense"
                }
            },
            "LIST_PURCHASED_LICENSES": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "ListPurchasedLicenses"
                }
            },
            "CREATE_TOKEN": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "CreateToken"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#AllowedOperationList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#AllowedOperation"
        },
        "traits": {
            "smithy.api#length": {
                "min": 1,
```

"max":
7
}
}
},
"com.amazonaws.licensemanager#Arn": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
}
},
"com.amazonaws.licensemanager#ArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
}
},
"com.amazonaws.licensemanager#AuthorizationException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError":
{
"code": "AuthorizationFailure",
"httpResponseCode": 403
},
"smithy.api#documentation": " The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n policy associated with this account. ",
"smithy.api#error": "client",
"smithy.api#httpError": 403
}
},
"com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
"type": "structure",
"members": {
"LastRunTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time that automated discovery last ran. "

```
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes automated discovery.</p>"
        }
      },

  "com.amazonaws.licensemanager#Boolean": {
        "type": "boolean",
        "traits": {
          "smithy.api#default": false
        }
      },
      "com.amazonaws.licensemanager#BorrowConfiguration": {
        "type": "structure",
        "members": {
          "AllowEarlyCheckIn": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>Indicates whether early check-ins are allowed.</p>",
              "smithy.api#required": {}
            }
          },
          "MaxTimeToLiveInMinutes": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
              "smithy.api#required": {}
            }
          }

},
        "traits": {
          "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#BoxBoolean": {
        "type": "boolean"
      },
      "com.amazonaws.licensemanager#BoxInteger": {
        "type": "integer"
      },
      "com.amazonaws.licensemanager#BoxLong": {
        "type": "long"
      },
      "com.amazonaws.licensemanager#CheckInLicense": {
        "type": "operation",
```

"input": {
"target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"

},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks in the specified license. Check in a license when it is no longer in use. "
}
},
"com.amazonaws.licensemanager#CheckInLicenseRequest":
{
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",
"smithy.api#required": {}
}

```
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicense":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members":
 {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
                    "smithy.api#required": {}
                }
            },
            "DigitalSignatureMethod": {
                "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
                "traits": {
                    "smithy.api#documentation": "<p>Digital signature method. The possible
 value is JSON Web Signature (JWS) algorithm PS384.\n         For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>",
                    "smithy.api#required": {}
                }
            },
```

"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation":
" Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed":
{
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " Allowed license entitlements. "
}
},
"NodeId": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"SignedToken": {
"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout
is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target":
"com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks out the specified license. \n <note>\n If the
account that created the license is the same that is performing the check out, you must\n specify the account
as the beneficiary. \n </note>"
}
},
"com.amazonaws.licensemanager#CheckoutLicenseRequest": {
"type": "structure",
"members": {
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product
SKU. ",
"smithy.api#required": {}
}
},
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {

"smithy.api#documentation": " Checkout type. ",
"smithy.api#required": {}
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Key fingerprint identifying the license. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. ",

"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
"type": "structure",
"members": {

"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " Allowed license entitlements. "
}
},
"SignedToken": {
"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and
time at which the license checkout expires. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the checkout license. "
}

```
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CheckoutType": {
    "type": "enum",
    "members": {
        "PROVISIONAL": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PROVISIONAL"
            }
        },
        "PERPETUAL": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PERPETUAL"
            }
        }
    }
},
"com.amazonaws.licensemanager#ClientRequestToken": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 36
        }
    }
},
"com.amazonaws.licensemanager#ClientToken": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 2048
        },
        "smithy.api#pattern": "^\\S+$"
    }
},
"com.amazonaws.licensemanager#ConflictException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
```

```
        },
        "traits": {
          "aws.protocols#awsQueryError": {
            "code": "ConflictException",
            "httpResponseCode":
 409
          },
          "smithy.api#documentation": "<p>There was a conflict processing the request. Try your request
again.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 409
        }
      },
      "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
        "type": "structure",
        "members": {
          "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
              "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
            }
          },
          "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
              "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
            }
          }
        },

 "traits": {
          "smithy.api#documentation": "<p>Details about license consumption.</p>"
        }
      },
      "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
        }
      },
      "com.amazonaws.licensemanager#ConsumptionConfiguration": {
        "type": "structure",
        "members": {
          "RenewType": {
            "target": "com.amazonaws.licensemanager#RenewType",
            "traits": {
              "smithy.api#documentation": "<p>Renewal frequency.</p>"
            }
```

```
            },
            "ProvisionalConfiguration": {
                "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
                }
            },
            "BorrowConfiguration": {
                "target": "com.amazonaws.licensemanager#BorrowConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
```

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of license\n        entitlements with a specific Amazon Web Services account, an organization, or an\n organizational unit (OU). For more
 information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}

    }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Principals": {
                "target": "com.amazonaws.licensemanager#PrincipalArnList",
                "traits": {
                    "smithy.api#documentation": "<p>The grant principals. You can specify one of the following as an Amazon Resource Name\n        (ARN):</p>\n        <ul>\n            <li>\n                <p>An Amazon Web Services account, which includes only the account specified.</p>\n            </li>\n        </ul>\n        <ul>\n            <li>\n
    <p>An organizational unit (OU), which includes all accounts in the OU.</p>\n            </li>\n        </ul>\n <ul>\n
            <li>\n                <p>An organization, which will include all accounts across your organization.</p>\n </li>\n        </ul>",
                    "smithy.api#required": {}
                }
```

```
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "AllowedOperations": {
            "target": "com.amazonaws.licensemanager#AllowedOperationList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed operations for the grant.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},

"com.amazonaws.licensemanager#CreateGrantResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateGrantVersion":
```

```
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
             },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information, see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",

  "smithy.api#required": {}
                }
```

```
    },
    "GrantArn": {
        "target": "com.amazonaws.licensemanager#Arn",
        "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
            "smithy.api#required": {}
        }
    },
    "GrantName": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Grant name.</p>"
        }
    },
    "AllowedOperations": {
        "target": "com.amazonaws.licensemanager#AllowedOperationList",
        "traits": {
            "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
        }
    },
    "Status": {
        "target": "com.amazonaws.licensemanager#GrantStatus",
         "traits": {
            "smithy.api#documentation": "<p>Grant status.</p>"
        }
    },
    "StatusReason": {
        "target": "com.amazonaws.licensemanager#StatusReasonMessage",
        "traits": {
            "smithy.api#documentation": "<p>Grant status reason.</p>"
        }
    },
    "SourceVersion": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Current version of the grant.</p>"
        }
    },
    "Options": {
        "target": "com.amazonaws.licensemanager#Options",
        "traits": {
            "smithy.api#documentation": "<p>The options specified for the grant.</p>"
        }
    }
},
 "traits": {
    "smithy.api#input": {}
}
```

```
    },
    "com.amazonaws.licensemanager#CreateGrantVersionResponse": {
      "type": "structure",
      "members": {
        "GrantArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Grant ARN.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#GrantStatus",
          "traits": {
            "smithy.api#documentation": "<p>Grant status.</p>"
          }
        },
        "Version": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>New version of the grant.</p>"
          }
        }
      },
      "traits":
{
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#CreateLicense": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license configuration.</p>\n        <p>A license configuration is an abstraction of a customer license agreement that can be\n        consumed and enforced by License Manager. Components include specifications for the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n        Dedicated Instance, Dedicated Host, or
```

all of these), license affinity to host (how long a \n license must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension used to track the license inventory. ",
"smithy.api#required": {}
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows. \n \n \n \n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n <code>licenseAffinityToHost</code> |\n <code>maximumCores</code> |

<code>minimumCores</code>\n \n \n \n \n
<code>Instances</code> dimension: <code>allowedTenancy</code> | \n <code>maximumCores</code> |
<code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n
<code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n
\n
\n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n
<code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> |
<code>minimumSockets</code>\n \n \n \n \n
<code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n
<code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> |
<code>minimumVcpus</code>\n \n \n \n The unit for
<code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for
<code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n
<code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n
<code>True</code> and <code>False</code>. "
}
},

"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the license configuration. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is
uninstalled. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationResponse":
{
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",

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            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
    }
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
    "type": "structure",
    "members": {
        "ResourceArn": {

            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
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"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource you are converting the license type for. ",
"smithy.api#required": {}
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting from. \n\n For the structure of the source license, see Convert a license type using the CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
},
"DestinationLicenseContext":
{
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting to. For the structure of the destination license, see Convert a license type using the CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

"traits": {
"smithy.api#documentation": " The ID of the created license type conversion task. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
"type": "operation",

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        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "ReportGeneratorName":
{
                "target": "com.amazonaws.licensemanager#ReportGeneratorName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>",
                    "smithy.api#required": {}
                }
            },
            "Type": {
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"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types an be generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}

}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " Defines the type of license configuration the report generator tracks. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
},

"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the new report
generator. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseRequest": {
"type": "structure",
"members": {
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product
name. ",
"smithy.api#required": {}
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits": {

"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region for the license. ",
"smithy.api#required": {}

}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}

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            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation":
"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>"
                }
            },
            "Version": {
                 "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersion": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
        },
```

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a new version of the specified license. "
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target":
"com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}
},

"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits":
{
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for

workloads with offline\n usage. ",
"smithy.api#required": {}
}
},

"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New version of the license. "
}
},
"Status": {

"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
}
},
"traits": {
"smithy.api#output":
{}
}
},
"com.amazonaws.licensemanager#CreateToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},

{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a long-lived token. \n A refresh token is a JWT

token used to get an access token. With an access token,\n you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n call License Manager to manage the specified license. "
}
},
"com.amazonaws.licensemanager#CreateTokenRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits":
{
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n JWT token. ",
"smithy.api#required": {}
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n License Manager does not check whether the roles are in use. "
}
},
"ExpirationInDays": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Token expiration, in days, counted from token creation. The default is 365 days. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller to be included in the JWT token. The data is mapped\n to the amr claim of the JWT token. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Idempotency token, valid for 10 minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}

```
},
"com.amazonaws.licensemanager#CreateTokenResponse": {
    "type": "structure",
    "members": {
        "TokenId": {
            "target": "com.amazonaws.licensemanager#String",

            "traits": {
                "smithy.api#documentation": "<p>Token ID.</p>"
            }
        },
        "TokenType": {
            "target": "com.amazonaws.licensemanager#TokenType",
            "traits": {
                "smithy.api#documentation": "<p>Token type.</p>"
            }
        },
        "Token": {
            "target": "com.amazonaws.licensemanager#TokenString",
            "traits": {
                "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#DateTime": {
    "type": "timestamp"
},
"com.amazonaws.licensemanager#DatetimeRange": {
    "type": "structure",
    "members": {
        "Begin": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Start of the time range.</p>",
                "smithy.api#required": {}
            }
        },
        "End": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>End of the time range.</p>"
            }
        }
    },
```

"traits": {
"smithy.api#documentation": " Describes a time range, in ISO8601-UTC format. "
}
},
"com.amazonaws.licensemanager#DeleteGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes
the specified grant. "
}
},
"com.amazonaws.licensemanager#DeleteGrantRequest": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}

```
            }
          },
          "StatusReason": {
            "target": "com.amazonaws.licensemanager#StatusReasonMessage",
            "traits": {
              "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Current version of the
grant.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#DeleteGrantResponse": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation":
"<p>Grant version.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
```

"com.amazonaws.licensemanager#DeleteLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license configuration. \n You cannot delete a license configuration that is in use. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the license configuration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
"type": "operation",
"input": {

"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified report generator. \n This action deletes the report generator, which stops it from generating future reports.\n The action cannot be reversed. It has no effect on the previous reports from this generator. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to be deleted. ",
"smithy.api#required": {}
}
}

```
        },
        "traits": {

"smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>",
                    "smithy.api#required":
{}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseResponse": {
        "type": "structure",
        "members": {
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>"
                }
            },
            "DeletionDate": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
```

"smithy.api#documentation": " Date when the license is deleted. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},

{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified token. Must be called in the license home Region. "
}
},
"com.amazonaws.licensemanager#DeleteTokenRequest": {
"type": "structure",
"members": {

"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteTokenResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}

}
},
"com.amazonaws.licensemanager#DigitalSignatureMethod": {
"type": "enum",
"members": {
"JWT_PS384": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "JWT_PS384"
}
}
}
},
"com.amazonaws.licensemanager#Entitlement": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement resource. Use only
if the unit is None. "
}
},

"MaxCount": {
"target": "com.amazonaws.licensemanager#Long",
"traits": {
"smithy.api#documentation": " Maximum entitlement count. Use if the unit is not None. "
}
},
"Overage": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether overages are allowed. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementUnit",
"traits": {
"smithy.api#documentation": " Entitlement unit. ",
"smithy.api#required": {}
}
},
"AllowCheckIn": {
"target":
"com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether check-ins are allowed. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a resource entitled for use with a license. "
}
},
"com.amazonaws.licensemanager#EntitlementData": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement
data value. "
}
},

"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {
"smithy.api#documentation": " Entitlement data unit. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Data associated with an entitlement resource. "
}
},
"com.amazonaws.licensemanager#EntitlementDataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#EntitlementData"
}
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
"type": "enum",
"members": {
"COUNT": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Count"
}
},
"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"SECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Seconds"
}
},
"MICROSECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Microseconds"
}
},
"MILLISECONDS": {
"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "Milliseconds"
}
},
"BYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes"
}
},
"KILOBYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes"
}
},
"MEGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes"
}
},
"GIGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes"
}
},
"TERABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {

"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"

}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"
}
},
"KILOBYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes/Second"
}
},
"MEGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes/Second"
}
},
"GIGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes/Second"
}
},

"TERABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes/Second"
}
},
"BITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits/Second"
}
},
"KILOBITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits/Second"
}
},
"MEGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue":
"Megabits/Second"
}
},
"GIGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits/Second"
}
},
"TERABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits/Second"
}
},
"COUNT_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count/Second"
}
}
}
},
"com.amazonaws.licensemanager#EntitlementList": {
"type": "list",
"member": {

"target": "com.amazonaws.licensemanager#Entitlement"
}
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The entitlement is not allowed. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#EntitlementUnit": {
"type": "enum",
"members": {
"COUNT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count"
}
},
"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"SECONDS":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Seconds"
}
},
"MICROSECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Microseconds"
}
},
"MILLISECONDS": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Milliseconds"
}
},
"BYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes"
}
},
"KILOBYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes"
}
},
"MEGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes"
}
},
"GIGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes"
}
},
"TERABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"
}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target":
"smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"
}
},
"KILOBYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes/Second"
}
},
"MEGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes/Second"
}
},
"GIGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes/Second"
}
},
"TERABYTES_PER_SECOND": {

"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Terabytes/Second"
}
},
"BITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits/Second"
}
},
"KILOBITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits/Second"
}
},
"MEGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits/Second"
}
},
"GIGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits/Second"
}
},

"TERABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits/Second"
}
},
"COUNT_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count/Second"
}
}
}
},
"com.amazonaws.licensemanager#EntitlementUsage": {
"type": "structure",
"members": {

```
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ConsumedValue": {
                "target": "com.amazonaws.licensemanager#String",

           "traits": {
                    "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxCount": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
                }
            },
            "Unit": {
                "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementUsageList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
        },
```

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Extends the expiration date for license consumption. "
}
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",
"smithy.api#required": {}

}
},
"DryRun": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#default": false,
"smithy.api#documentation": " Checks whether you have the required permissions for the action, without actually making the request. Provides an error response if you do not have the required permissions. "
}
}
},
"traits": {

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            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>"
                }
            },

            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#FailedDependencyException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            },
            "ErrorCode": {
                "target": "com.amazonaws.licensemanager#String"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "FailedDependency",
                "httpResponseCode": 424
            },
            "smithy.api#documentation":
"<p>A dependency required to run the API is missing.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 424
        }
    },
    "com.amazonaws.licensemanager#Filter": {
        "type": "structure",
        "members": {
```

"Name": {
"target": "com.amazonaws.licensemanager#FilterName",
"traits": {
"smithy.api#documentation": " Name of the filter. Filter names are case-sensitive. "
}
},
"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " The value of the filter, which is case-sensitive. You can only specify one value for the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter name and value pair that is used to return more specific results from a\n describe operation. Filters can be used to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FilterLimitExceeded",
"httpResponseCode": 400
},
"smithy.api#documentation": " The request uses too many filters or too many filter values. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter"
}
},
"com.amazonaws.licensemanager#FilterName": {
"type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
"type": "string"

},
"com.amazonaws.licensemanager#FilterValues": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#FilterValue",
"traits": {
"smithy.api#xmlName": "item"
}
}
},
"com.amazonaws.licensemanager#Filters": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter",
"traits": {
"smithy.api#xmlName": "item"
}
}
},
"com.amazonaws.licensemanager#GetAccessToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": "<p>Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access

tokens\n are valid for one hour. "
}
},
"com.amazonaws.licensemanager#GetAccessTokenRequest": {
"type": "structure",
"members": {
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token, encoded as a JWT token. ",
"smithy.api#required": {}
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Token properties to validate against those present in the JWT token. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetAccessTokenResponse": {
"type": "structure",
"members": {
"AccessToken": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Temporary access token. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetGrantResponse"
},

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    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"

    },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
```

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},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
                "smithy.api#documentation": "<p>Grant details.</p>"
            }
        }
    },
    "traits": {

"smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"

 },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified license.</p>"
    }
```

```
    },
    "com.amazonaws.licensemanager#GetLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license
configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits":
 {
            "smithy.api#input": {}
        }
    },
```

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"com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
    "type": "structure",
    "members": {
        "LicenseConfigurationId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
            }
        },
        "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
        },
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the license configuration.</p>"
             }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
                "smithy.api#documentation": "<p>Dimension for which the licenses are counted.</p>"
            }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules.</p>"
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",

           "traits": {
                "smithy.api#documentation": "<p>Number of available licenses.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
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"traits": {
"smithy.api#documentation": " Sets the number of available licenses as a hard limit. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses assigned to resources. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License configuration status. "
}

},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {

"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When
true, disassociates a resource when software is uninstalled. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified license type conversion task. "
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {

"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted to. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "

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                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
                }
            },

  "StartTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
                }
            },
            "LicenseConversionTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
                }
            },
            "EndTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator":
 {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

          },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
                    "smithy.api#required":
{}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {
            "ReportGenerator": {
                "target": "com.amazonaws.licensemanager#ReportGenerator",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
```

configurations. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseResponse": {
"type": "structure",
"members": {
"License": {
"target": "com.amazonaws.licensemanager#License",
"traits": {
"smithy.api#documentation": " License details. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},

"com.amazonaws.licensemanager#GetLicenseUsage": {
"type": "operation",
"input": {

"target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the usage of the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseUsageRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseUsageResponse": {
"type": "structure",
"members": {

"LicenseUsage": {
"target":
"com.amazonaws.licensemanager#LicenseUsage",
"traits": {
"smithy.api#documentation": " License usage details. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets the License Manager settings for the current Region. "
}
},
"com.amazonaws.licensemanager#GetServiceSettingsRequest": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetServiceSettingsResponse": {
"type": "structure",
"members": {

"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Regional S3 bucket path for storing reports, license trail event data, discovery data,\n and so on. "

}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " SNS topic configured to receive notifications from License Manager. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Indicates whether Organizations is integrated with License Manager for\n cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether cross-account discovery is enabled. "
}

},
"LicenseManagerResourceShareArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource share. The License Manager management account \n provides member accounts with access to this share. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#Grant": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",

"smithy.api#required": {}
}
},
"GrantName": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"ParentArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Parent ARN. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. ",
"smithy.api#required": {}
}
},
"GranteePrincipalArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {

"smithy.api#documentation": " The grantee principal ARN. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {

"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. ",
"smithy.api#required": {}
}
},
"GrantedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Granted operations. ",
"smithy.api#required": {}
}
},
"Options": {
"target": "com.amazonaws.licensemanager#Options",
"traits": {
"smithy.api#documentation": " The options specified for the grant. "
}
}
},
"traits": {
"smithy.api#documentation":
" Describes a grant. "
}
},
"com.amazonaws.licensemanager#GrantList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Grant"
}
},
"com.amazonaws.licensemanager#GrantStatus": {
"type": "enum",
"members": {
"PENDING_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_WORKFLOW"
}
},
"PENDING_ACCEPT": {
"target": "smithy.api#Unit",

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            "traits": {
                "smithy.api#enumValue": "PENDING_ACCEPT"
            }
        },
        "REJECTED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "REJECTED"

        }
        },
        "ACTIVE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "ACTIVE"
            }
        },
        "FAILED_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        },
        "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DISABLED": {
            "target": "smithy.api#Unit",
            "traits":
{
                "smithy.api#enumValue": "DISABLED"
            }
        },
        "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
        }
```

```
        }
    },
    "com.amazonaws.licensemanager#GrantedLicense": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>"
                }

},
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product name.</p>"
                }
            },
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>"
                }
            },
            "Issuer": {
                "target": "com.amazonaws.licensemanager#IssuerDetails",
                "traits": {
                    "smithy.api#documentation": "<p>Granted license issuer.</p>"
                }
            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Home Region of the granted license.</p>"

             }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Granted license status.</p>"
                }
```

},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the granted license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Granted license beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Granted license metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Creation time of the granted license. "

}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Version of the granted license. "
}
},
"ReceivedMetadata": {
"target": "com.amazonaws.licensemanager#ReceivedMetadata",
"traits": {

"smithy.api#documentation": " Granted license received metadata. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a license that is granted to a grantee. "
}
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#GrantedLicense"
}
},
"com.amazonaws.licensemanager#ISO8601DateTime":
{
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
}
},
"com.amazonaws.licensemanager#Integer": {
"type": "integer"
},
"com.amazonaws.licensemanager#InvalidParameterValueException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidParameterValueProvided",
"httpResponseCode": 400
},
"smithy.api#documentation":
" One or more parameter values are not valid. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#InvalidResourceStateException": {

"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidResourceState",
"httpResponseCode": 400
},
"smithy.api#documentation": " License Manager cannot allocate a license to a resource because of its state. \n For example, you cannot allocate a license to an instance in the process of shutting\n down. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},

"com.amazonaws.licensemanager#InventoryFilter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the filter. ",
"smithy.api#required": {}
}
},
"Condition": {
"target": "com.amazonaws.licensemanager#InventoryFilterCondition",
"traits": {
"smithy.api#documentation": " Condition of the filter. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Value of the filter. "
}
}

},
"traits": {
"smithy.api#documentation": " An inventory filter. "
}
},

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"com.amazonaws.licensemanager#InventoryFilterCondition": {
    "type": "enum",
    "members": {
        "EQUALS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EQUALS"
            }
        },
        "NOT_EQUALS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "NOT_EQUALS"
            }
        },
        "BEGINS_WITH": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "BEGINS_WITH"
            }
        },
        "CONTAINS": {
            "target": "smithy.api#Unit",
            "traits": {
                 "smithy.api#enumValue": "CONTAINS"
            }
        }
    }
},
"com.amazonaws.licensemanager#InventoryFilterList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#InventoryFilter"
    }
},
"com.amazonaws.licensemanager#Issuer": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Issuer name.</p>",
                "smithy.api#required": {}
            }
        },
        "SignKey": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage
of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about the issuer of a license. "
}
},
"com.amazonaws.licensemanager#IssuerDetails": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. "
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer key fingerprint. "
}
}
},
"traits": {
"smithy.api#documentation": " Details associated with the issuer of a license. "
}
},
"com.amazonaws.licensemanager#License": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {

"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " License name. "
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " License issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Home Region of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "

```
                }
            },
            "Entitlements": {

    "target": "com.amazonaws.licensemanager#EntitlementList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>"
                }
            },
            "ConsumptionConfiguration": {
                "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
                }
            },
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>License metadata.</p>"
                }
            },
            "CreateTime": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>License
creation time.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfiguration": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
                }
            },
```

"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension to use to track the license inventory. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Number of available licenses as a hard limit. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}

```
    },
    "ConsumedLicenses": {
        "target": "com.amazonaws.licensemanager#BoxLong",
        "traits": {
            "smithy.api#documentation": "<p>Number of licenses consumed. </p>"
        }
    },
    "Status": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Status of the license configuration.</p>"
        }
    },
    "OwnerAccountId": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Account ID of the license configuration's owner.</p>"

   }
    },
    "ConsumedLicenseSummaryList": {
        "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
        "traits": {
            "smithy.api#documentation": "<p>Summaries for licenses consumed by various resources.</p>"
        }
    },
    "ManagedResourceSummaryList": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
        "traits": {
            "smithy.api#documentation": "<p>Summaries for managed resources.</p>"
        }
    },
    "ProductInformationList": {
        "target": "com.amazonaws.licensemanager#ProductInformationList",
        "traits": {
            "smithy.api#documentation": "<p>Product information.</p>"
        }
    },
    "AutomatedDiscoveryInformation": {

        "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
        "traits": {
            "smithy.api#documentation": "<p>Automated discovery information.</p>"
        }
    }
},
"traits": {
    "smithy.api#documentation": "<p>A license configuration is an abstraction of a customer license
```

agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource consuming licenses. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " Time when the license configuration was associated with the resource. "
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an association with a license configuration. "
}
},

"com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
}
},
"com.amazonaws.licensemanager#LicenseConfigurationStatus": {
"type": "enum",
"members":
{
"AVAILABLE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "AVAILABLE"
}
},
"DISABLED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DISABLED"
}
}
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsage": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits":
{
"smithy.api#documentation": " Type of resource. "
}
},
"ResourceStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was initially associated with the resource. "
}
},

"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
}
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfiguration"
}
},
"com.amazonaws.licensemanager#LicenseConversionContext": {

"type": "structure",
"members": {
"UsageOperation": {
"target": "com.amazonaws.licensemanager#UsageOperation",
"traits": {
"smithy.api#documentation": " The Usage operation value that corresponds to the license type you are converting your resource from. For more information about which platforms correspond to which usage operation values see Sample data: usage operation by platform\n \n "
}

```
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTask": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {

     "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the license type conversion task.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource associated
with the license type\n        conversion task.</p>"
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license type this conversion task converted
from.</p>"
                }
            },
            "DestinationLicenseContext": {
                "target":
 "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license type this conversion task converted
to.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
                "traits": {
                    "smithy.api#documentation": "<p>The status of the conversion task.</p>"
                }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
```

```
            }
        },
        "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation":
 "<p>The time the conversion task was started at.</p>"
            }
        },
        "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>The time the usage operation value of the resource was
changed.</p>"
            }
        },
        "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseConversionTaskId": {
    "type": "string",
    "traits": {

   "smithy.api#length": {
            "min": 0,
            "max": 50
        },
        "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
    }
},
"com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
    "type": "enum",
    "members": {
        "IN_PROGRESS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "IN_PROGRESS"
            }
        },
        "SUCCEEDED": {
```

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            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "SUCCEEDED"
            }
        },
        "FAILED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "FAILED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseConversionTasks":
{
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#LicenseConversionTask"
    }
},
"com.amazonaws.licensemanager#LicenseCountingType": {
    "type": "enum",
    "members": {
        "VCPU": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "vCPU"
            }
        },
        "INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Instance"
            }
        },
        "CORE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Core"
            }
        },
        "SOCKET": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Socket"
            }
        }
    }
```

```
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {
    "type": "enum",
    "members": {
        "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {

    "type": "structure",
    "members": {
        "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
        },
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Resource type.</p>"
            }
        },
        "ErrorMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Error message.</p>"
            }
        },
        "FailureTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
```

"traits": {

"smithy.api#documentation": " Failure time. "
}
},
"OperationName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the operation. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource. "
}
},
"OperationRequestedBy": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The requester is \"License Manager Automated Discovery\". "
}
},
"MetadataList": {

"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Reserved. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the failure of a license operation. "
}
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailure"
}
},
"com.amazonaws.licensemanager#LicenseSpecification": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",

"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseSpecification"
}
},
"com.amazonaws.licensemanager#LicenseStatus": {
"type": "enum",
"members": {
"AVAILABLE": {
"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "AVAILABLE"
}
},
"PENDING_AVAILABLE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_AVAILABLE"
}
},
"DEACTIVATED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DEACTIVATED"
}
},
"SUSPENDED": {
"target": "smithy.api#Unit",

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            "traits": {
                "smithy.api#enumValue": "SUSPENDED"
            }
        },
        "EXPIRED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EXPIRED"
            }
        },

    "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseUsage": {
    "type": "structure",
    "members": {
        "EntitlementUsages": {
            "target": "com.amazonaws.licensemanager#EntitlementUsageList",
            "traits": {
                "smithy.api#documentation": "<p>License entitlement usages.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes the entitlement usage associated with a license.</p>"

    }
},
"com.amazonaws.licensemanager#LicenseUsageException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
```

"aws.protocols#awsQueryError": {
"code": "LicenseUsageFailure",
"httpResponseCode": 412
},
"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the resource associations for the specified license configuration. \n Resource associations need not consume licenses from a license configuration. \n For example, an AMI or a stopped instance might not consume a license (depending on \n the license rules). "
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
"type": "structure",

"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results
to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationAssociations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license
configuration. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},

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"com.amazonaws.licensemanager#ListDistributedGrants": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
         },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the grants distributed for the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
    "type": "structure",
    "members": {
        "GrantArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {

        "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
            }
        },
        "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
```

"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranteePrincipalARN</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",

"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configuration operations that failed. "
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name of the license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse": {
"type": "structure",
"members": {
"LicenseOperationFailureList": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
"traits": {
"smithy.api#documentation": " License configuration operations that failed. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
},

"output": {
"target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},

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            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations
 for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next
 set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n                Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n                Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n                <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n                Logical operators are <code>EQUALS</code> |
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<code>NOT_EQUALS</code>.</p>\n
    </li>\n            <li>\n              <p>\n                <code>usagelimitExceeded</code> - A Boolean value that
indicates whether the available licenses have been exceeded. \n              Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n         </ul>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurations": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurations",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",

         "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasks": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
```

"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license type conversion tasks for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
"type": "structure",
"members": {
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " \n Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
"type": "structure",
"members": {
"LicenseConversionTasks": {
"target": "com.amazonaws.licensemanager#LicenseConversionTasks",
"traits": {
"smithy.api#documentation": " Information about the license configuration tasks for your

account. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target":
"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}

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        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the report generators for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest":
{
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:
</p>\n        <ul>\n            <li>\n                <p>\n                <code>LicenseConfigurationArn</code>\n
</p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits":
{
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
            "ReportGenerators": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorList",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

"smithy.api#documentation": " Token for the next set of results. "
}

}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Describes the license configurations for the specified resource. "
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a resource that has an associated license configuration. ",
"smithy.api#required": {}
}

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        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {

    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {
        "LicenseSpecifications": {
            "target": "com.amazonaws.licensemanager#LicenseSpecifications",
            "traits": {
                "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
            }
        },
        "NextToken": {
             "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
```

```
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
              "smithy.api#documentation": "<p>License details.</p>"
            }
          },

"NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenses": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicensesRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicensesResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
           },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
```

"traits": {
"smithy.api#documentation": " Lists the licenses for your account. "
}
},
"com.amazonaws.licensemanager#ListLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>Status</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#LicenseList",
"traits": {

"smithy.api#documentation": " License details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists grants that are received. Received grants are grants created while

specifying the\n recipient as this Amazon Web Services account, your organization, or an organizational unit\n (OU) to which this member account belongs. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target":
"com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants received for all accounts in the organization. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the received license. ",
"smithy.api#required": {}

```
            }
        },
        "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
                "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n
    <ul>\n        <li>\n        <p>\n        <code>ParentArn</code>\n        </p>\n        </li>\n
<li>\n        <p>\n        <code>GranteePrincipalArn</code>\n        </p>\n        </li>\n        </ul>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse":
{
    "type": "structure",
    "members": {
        "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
            "traits": {
                "smithy.api#documentation": "<p>Lists the grants the organization has received.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
```

```
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
      "type": "structure",
      "members": {
        "GrantArns": {
          "target": "com.amazonaws.licensemanager#ArnList",
           "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
          }
        },
        "Filters": {
          "target": "com.amazonaws.licensemanager#FilterList",
          "traits": {
            "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n            </p>\n
      </li>\n          <li>\n            <p>\n              <code>LicenseIssuerName</code>\n            </p>\n
</li>\n          <li>\n            <p>\n              <code>LicenseArn</code>\n            </p>\n          </li>\n
<li>\n            <p>\n              <code>GrantStatus</code>\n            </p>\n          </li>\n          <li>\n
<p>\n
      <code>GranterAccountId</code>\n            </p>\n          </li>\n        </ul>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#MaxSize100",
          "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
      "type": "structure",
      "members": {
        "Grants": {
          "target": "com.amazonaws.licensemanager#GrantList",
           "traits": {
            "smithy.api#documentation": "<p>Received grant details.</p>"
          }
        },
```

```
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
         },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists received licenses.</p>"
    }
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
```

```
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {

    "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the licenses received for all accounts in the organization.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>Beneficiary</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                <code>ProductSKU</code>\n
            </p>\n            </li>\n        </ul>"
                }
            },
```

```
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
    "type": "structure",
    "members": {
        "Licenses": {
            "target": "com.amazonaws.licensemanager#GrantedLicenseList",
             "traits": {
                "smithy.api#documentation": "<p>Lists the licenses the organization has received.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
    "type": "structure",
    "members": {
        "LicenseArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
            }
        },
```

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>IssuerName</code>\n \n \n \n \n <code>Beneficiary</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#GrantedLicenseList",
"traits": {
"smithy.api#documentation": " Received license details. "
}
},

"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}

```
},
"com.amazonaws.licensemanager#ListResourceInventory": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#FailedDependencyException"
        },
        {
            "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
    }
},
"com.amazonaws.licensemanager#ListResourceInventoryRequest": {
    "type": "structure",
    "members": {
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#InventoryFilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n
\n \n \n <code>application_name</code> - The name of the application. \n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n
\n \n \n <code>license_included</code> - The type of license included. \n
Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n Possible values are <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n
\n <code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n \n \n \n
<code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n
<code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account). \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListResourceInventoryResponse": {
"type": "structure",
"members": {
"ResourceInventoryList": {
"target": "com.amazonaws.licensemanager#ResourceInventoryList",
"traits": {
"smithy.api#documentation": " Information about the resources. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {

"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListTagsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the tags for the specified license configuration. "
}
},
"com.amazonaws.licensemanager#ListTagsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",

"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}

```
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the tags.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors":
[
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
```

```
            "TokenIds": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {

                  "smithy.api#documentation": "<p>Token IDs.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
    <ul>\n            <li>\n              <p>\n                <code>LicenseArns</code>\n              </p>\n            </li>\n
</ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation":
 "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokensResponse": {
        "type": "structure",
        "members": {
            "Tokens": {
                "target": "com.amazonaws.licensemanager#TokenList",
                "traits": {
                    "smithy.api#documentation": "<p>Received token details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
```

```
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
             {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying
license\n        consumption details by resource at a selected point in time. Use this action to audit the\n        current
license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
```

"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>resourceArn</code> - The ARN of the license configuration resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceAccount</code> - The ID of the account that owns the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
"type": "structure",
"members": {

"LicenseConfigurationUsageList": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#Location": {
"type": "string"
},
"com.amazonaws.licensemanager#Long": {
"type": "long"
},
"com.amazonaws.licensemanager#ManagedResourceSummary": {
"type": "structure",
"members": {
"ResourceType":
{
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of resource associated with a license. "
}
},
"AssociationCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of resources associated with licenses. "
}
}
},
"traits": {
"smithy.api#documentation": " Summary information about a managed resource. "
}
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummary"
}
},
"com.amazonaws.licensemanager#MaxSize100": {

"type": "integer",
"traits": {
"smithy.api#range": {
"min": 1,
"max": 100

```
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The key name.</p>"
            }
        },

"Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The value.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes key/value pairs.</p>"
    }
},
"com.amazonaws.licensemanager#MetadataList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Metadata"
    }
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
    "type": "structure",
    "members": {
```

"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#Options": {
"type": "structure",
"members": {
"ActivationOverrideBehavior": {
"target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
"traits": {
"smithy.api#documentation": " An activation option for your grant that determines the behavior of activating a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter. \n \n \n As a license administrator, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant. \n \n \n As a grantor, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your organization. \n \n \n As a grantee, if the grantor creating the distributed grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n are activating the grant. \n \n \n <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n Use this value to activate a grant without replacing any member accounts\n active grants for the same product. \n </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n Use this value to activate a grant and disable other active grants in any\n member accounts
for the same product. This action will also replace their\n previously activated grants with this activated grant. \n </dd>\n </dl>"
}
}
},
"traits": {
"smithy.api#documentation": " The options you can specify when you create a new version of a grant, such as activation\n override behavior. For more information, see Granted licenses in License Manager in the License Manager User Guide. "
}
},
"com.amazonaws.licensemanager#OrganizationConfiguration": {
"type": "structure",
"members": {
"EnableIntegration": {
"target": "com.amazonaws.licensemanager#Boolean",

"traits": {
"smithy.api#default": false,
"smithy.api#documentation":
" Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Resource type. The
possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a
<code>ProductInformationFilterComparator</code> which is a logical operator, a
<code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a
<code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values
for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for
<code>ProductInformationFilterComparator</code>. \n The following filters and are supported when
the resource type \n is <code>SSM_MANAGED</code>: \n
\n \n \n <code>Application Name</code> - The name of the
application.\n Logical operator is <code>EQUALS</code>. \n \n \n
\n <code>Application Publisher</code> - The publisher of the application.\n Logical

operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n Logical operator is <code>EQUALS</code>. \n
\n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n <code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n
\n ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information for a license configuration. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
"type": "structure",
"members": {
"ProductInformationFilterName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Filter name. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterValue": {
"target": "com.amazonaws.licensemanager#StringList",

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        "traits": {
            "smithy.api#documentation": "<p>Filter value.</p>"
        }
      },
      "ProductInformationFilterComparator": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Logical operator.</p>",
            "smithy.api#required": {}
        }
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>Describes product information filters.</p>"
    }
  },
  "com.amazonaws.licensemanager#ProductInformationFilterList": {
    "type": "list",
    "member": {
      "target": "com.amazonaws.licensemanager#ProductInformationFilter"
    }
  },
  "com.amazonaws.licensemanager#ProductInformationList": {
    "type": "list",
    "member": {
      "target": "com.amazonaws.licensemanager#ProductInformation"
     }
  },
  "com.amazonaws.licensemanager#ProvisionalConfiguration": {
    "type": "structure",
    "members": {
      "MaxTimeToLiveInMinutes": {
        "target": "com.amazonaws.licensemanager#BoxInteger",
        "traits": {
            "smithy.api#documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>",
            "smithy.api#required": {}
        }
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
    }
  },
  "com.amazonaws.licensemanager#RateLimitExceededException": {
    "type": "structure",
    "members": {
      "Message": {
        "target": "com.amazonaws.licensemanager#Message"
```

```
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "RateLimitExceeded",
                "httpResponseCode": 429
            },
            "smithy.api#documentation": "<p>Too many requests have been submitted. Try again after a brief
wait.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 429
        }
    },
    "com.amazonaws.licensemanager#ReceivedMetadata": {
        "type": "structure",
        "members": {
            "ReceivedStatus": {
                "target": "com.amazonaws.licensemanager#ReceivedStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Received status.</p>"
                }
            },
            "ReceivedStatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>Received
status reason.</p>"
                }
            },
            "AllowedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed operations.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Metadata associated with received licenses and grants.</p>"
        }
    },
    "com.amazonaws.licensemanager#ReceivedStatus": {
        "type": "enum",
        "members": {
            "PENDING_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_WORKFLOW"
                }
```

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            },
            "PENDING_ACCEPT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue":
"PENDING_ACCEPT"
                }
            },
            "REJECTED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "REJECTED"
                }
            },
            "ACTIVE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "ACTIVE"
                }
            },
            "FAILED_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "FAILED_WORKFLOW"
                }
            },
            "DELETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DELETED"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                 "traits": {
                    "smithy.api#enumValue": "DISABLED"
                }
            },
            "WORKFLOW_COMPLETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "WORKFLOW_COMPLETED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#RedirectException": {
        "type": "structure",
```

"members": {
"Location": {
"target": "com.amazonaws.licensemanager#Location",
"traits": {
"smithy.api#httpHeader": "Location"
}
},
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " This is not the correct Region for the resource. Try again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 308
}
},
"com.amazonaws.licensemanager#RejectGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#RejectGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#RejectGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}

}
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#RenewType":
```

{
"type": "enum",
"members": {
"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"WEEKLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Weekly"
}
},
"MONTHLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Monthly"
}
}
}
},
"com.amazonaws.licensemanager#ReportContext": {
"type": "structure",
"members": {
"licenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details of the license configuration that this generator reports on. "
}
},
"com.amazonaws.licensemanager#ReportFrequency": {
"type": "structure",
"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "

```
                }
            },
            "period": {
                "target": "com.amazonaws.licensemanager#ReportFrequencyType",

                "traits": {
                    "smithy.api#documentation": "<p>Time period between each report. The period can be daily, weekly,
or monthly.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
        }
    },
    "com.amazonaws.licensemanager#ReportFrequencyType": {
        "type": "enum",
        "members": {
            "DAY": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DAY"
                }
            },
            "WEEK": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "WEEK"
                }
            },
            "MONTH": {
                "target": "smithy.api#Unit",
                "traits":
{
                    "smithy.api#enumValue": "MONTH"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ReportGenerator": {
        "type": "structure",
        "members": {
            "ReportGeneratorName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>"
                }
            },
```

"ReportType": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports that are generated. "
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " License configuration type for this generator. "
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. "
}
},
"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}
},
"LastRunFailureReason": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Failure message for the last report generation attempt. "
}
},
"LastReportGenerationTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the last report was generated at. "
}
},
"ReportCreatorAccount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Web Services account ID used to create the report

generator. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the report was created. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags associated with the report generator. "
}

}
},
"traits": {
"smithy.api#documentation": " Describe the details of a report generator. "
}
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportGenerator"
}
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
}

```
        }
    },
    "com.amazonaws.licensemanager#ReportType": {
        "type": "enum",
        "members": {
            "LICENSE_CONFIGURATION_SUMMARY_REPORT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "LicenseConfigurationSummaryReport"
                }

    },
            "LICENSE_CONFIGURATION_USAGE_REPORT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "LicenseConfigurationUsageReport"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ReportTypeList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ReportType"
        }
    },
    "com.amazonaws.licensemanager#ResourceInventory": {
        "type": "structure",
        "members": {
            "ResourceId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits":
{
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
```

"Platform": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Platform of the resource. "
}
},
"PlatformVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Platform version of the resource in the inventory. "
}
},
"ResourceOwningAccountId":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a resource. "
}
},
"com.amazonaws.licensemanager#ResourceInventoryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ResourceInventory"
}
},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ResourceLimitExceeded",

"httpResponseCode": 400
},
"smithy.api#documentation": " Your resource limits have been exceeded. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},

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"com.amazonaws.licensemanager#ResourceNotFoundException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "InvalidResource.NotFound",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The resource cannot be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceType": {
    "type": "enum",
     "members": {
        "EC2_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_INSTANCE"
            }
        },
        "EC2_HOST": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_HOST"
            }
        },
        "EC2_AMI": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_AMI"
            }
        },
        "RDS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "RDS"
            }
        },
        "SYSTEMS_MANAGER_MANAGED_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
```

"smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
}
}
}
},
"com.amazonaws.licensemanager#S3Location": {
"type": "structure",
"members": {
"bucket": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the S3 bucket reports are published to. "
}
},
"keyPrefix": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Prefix of the S3 bucket reports are published to. "
}
}
},
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InternalError",
"httpResponseCode": 500
},
"smithy.api#documentation": " The server experienced an internal error. Try again. ",
"smithy.api#error": "server",
"smithy.api#httpError": 500
}
},
"com.amazonaws.licensemanager#SignedToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 4096

```
            }
        }
    },
    "com.amazonaws.licensemanager#StatusReasonMessage": {
        "type": "string",
        "traits":
{
            "smithy.api#length": {
                "min": 0,
                "max": 400
            },
            "smithy.api#pattern": "^[\\s\\S]+$"
        }
    },
    "com.amazonaws.licensemanager#String": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#Tag": {
        "type": "structure",
        "members": {
            "Key": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag key.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Tag value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
```

```
        }
    },
    "com.amazonaws.licensemanager#TagList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Tag"
        }
    },
    "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
            {
                "target":
"com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits":
{
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
```

```
            }
        },
        "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
                "smithy.api#documentation": "<p>One or more tags.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#TagResourceResponse": {
    "type": "structure",
    "members": {},
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#TokenData": {
    "type": "structure",
    "members": {
        "TokenId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token ID.</p>"
            }
        },
        "TokenType": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>"
            }
        },
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "ExpirationTime": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Token expiration time, in ISO8601-UTC
```

format. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller. "
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the roles included in the token. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. "
}
}
},
"traits": {

"smithy.api#documentation": " Describes a token. "
}
},
"com.amazonaws.licensemanager#TokenList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#TokenData"
}
},
"com.amazonaws.licensemanager#TokenString": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 4096
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#TokenType": {
"type": "enum",
"members": {

"REFRESH_TOKEN": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REFRESH_TOKEN"
}
}
}
},
"com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException":
{
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The digital signature method is unsupported. Try your request
again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#UntagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UntagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],

"traits": {
"smithy.api#documentation": " Removes the specified tags from the specified license configuration. "
}
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",
"traits": {
"smithy.api#documentation": " Keys identifying the tags to remove. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

```
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseConfigurationStatus": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
                "traits": {
                    "smithy.api#documentation": "<p>New status of the license configuration.</p>"
                }
            },
            "LicenseRules": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {

    "smithy.api#documentation": "<p>New license rule. The only rule that you can add after you create a license\n
    configuration is licenseAffinityToHost.</p>"
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
```

"smithy.api#documentation": " New number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}

```
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates a report generator.</p>\n        <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to
```

update. ",
"smithy.api#required": {}
}
},
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation":
" Type of reports to generate. The following report types are supported: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " The report context. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits":
{
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Description of the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},

{
"target": "com.amazonaws.licensemanager#InvalidResourceStateException"
},
{
"target": "com.amazonaws.licensemanager#LicenseUsageException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],

"traits": {
"smithy.api#documentation": " Adds or removes the specified license configurations for the specified Amazon Web Services resource. \n You can update the license specifications of AMIs, instances, and hosts.\n You cannot update the license specifications for launch templates and CloudFormation templates, \n as they send license configurations to the operation that creates the resource. "
}
},

"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon Web Services resource. ",
"smithy.api#required": {}
}
},
"AddLicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " ARNs of the license configurations to add. "
}
},
"RemoveLicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " ARNs of the license configurations to remove. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where the License
 Manager information is stored.</p>"
                }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Enables integration with Organizations for cross-account discovery.</p>"
```

```
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Activates cross-account discovery.</p>"

        }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#UsageOperation": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            }
        }
    },
    "com.amazonaws.licensemanager#ValidationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",

    "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    }
  }
}
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version
 of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {
```

```
 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack,
 options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if
 err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
```

```
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
```

1.3998 aws-sdk-go-v2-service-cloudwatchlogs 1.32.0

1.3998.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil,
 err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err !=
 nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
```

```
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
```

```
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
```

AWS SDK for Go

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```
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
```

```
        path: new-ref
        fetch-depth: 0
    - name: Get Diff
      run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
    - name: Get Target Files
      run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
       uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
```

```
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
```

```
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return
err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
```

```
middleware.Before); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CheckInLicense",
 }
}
{
  "smithy": "2.0",
  "shapes": {
      "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
          "type": "integer"
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
          "type": "long"
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
          "type": "structure",
          "members": {
              "Name": {
                  "target": "smithy.api#String",
                  "traits": {
                      "smithy.api#documentation": "<p>The type of name to filter by.</p>"
                  }
              },
              "Values": {
```

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " One or more values for the name to filter by. "
}
},
"Operator": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
"traits": {
"smithy.api#documentation": " An operator for filtering results. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter object that is used to return more specific results from a describe operation.\n Filters can be used to match a set of resources by specific criteria. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
},
"output": {

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions service settings. ",
"smithy.api#http": {
"code": 200,
"method": "POST",

"uri": "/subscription/GetServiceSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest":
{
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " Lists the settings defined for Linux subscriptions discovery. The
settings include if\n Organizations integration has been enabled, and
which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being
applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings
current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays
the aggregated data for Linux\n subscriptions. "
}
}

```
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
        "type": "structure",
        "members": {
            "AmiId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The AMI ID used to launch the instance.</p>"
                }
            },
            "InstanceID": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The instance ID of the resource.</p>"
                }
            },
            "InstanceType": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The instance type of the resource.</p>"
                }

        },
            "AccountID": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The account ID which owns the instance.</p>"
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status of the instance.</p>"
                }
            },
            "Region": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Region the instance is running in.</p>"
                }
            },
            "UsageOperation": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The usage operation of the instance. For more information, see For
more information, see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-
subscriptions-usage-operation.html\">Usage\n        operation values</a> in the <i>License Manager User
```

Guide. "
            }
        },
        "ProductCode": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
            "traits": {
                "smithy.api#documentation": " The product code for the instance. For more information, see Usage\n operation values in the License Manager User Guide . "
            }
        },
        "LastUpdatedTime": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": " The time in which the last discovery updated the instance details. "
            }
        },
        "SubscriptionName": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": " The name of the subscription being used by the instance. "
            }
        }
    },
    "traits": {
        "smithy.api#documentation": " Details discovered information about a running instance using Linux subscriptions. "
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
    "type": "structure",
    "members": {
        "message": {
            "target": "smithy.api#String"
        }
    },
    "traits": {
        "smithy.api#documentation": " An exception occurred with the service. ",
        "smithy.api#error": "server"
    }
},

```
    "com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
      "type": "service",
      "version": "2018-05-10",
      "operations": [
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
        },
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
        },
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
        },
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
        }
      ],

    "traits": {
        "aws.api#service": {
          "sdkId": "License Manager Linux Subscriptions",
          "arnNamespace": "license-manager-linux-subscriptions",
          "cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
        },
        "aws.auth#sigv4": {
          "name": "license-manager-linux-subscriptions"
        },
        "aws.protocols#restJson1": {},
        "smithy.api#cors": {
          "additionalAllowedHeaders": [
            "*",
            "content-type",
            "x-amz-content-sha256",
            "x-amz-user-agent",
            "x-amzn-platform-id",
            "x-amzn-trace-id",
            "content-length",
            "x-api-key",
            "authorization",
            "x-amz-date",

"x-amz-security-token",
            "Access-Control-Allow-Headers",
            "Access-Control-Allow-Methods",
            "Access-Control-Allow-Origin"
          ],
          "additionalExposedHeaders": [
            "x-amzn-errortype",
```

"x-amzn-requestid",
"x-amzn-trace-id"
]
},
"smithy.api#documentation": " With License Manager, you can discover and track your commercial Linux subscriptions on running\n Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager Linux Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}
},
"rules": [
{
"conditions": [
{
"fn": "isSet",
"argv": [
{

```
                "ref": "Endpoint"
            }
        ]
    }
],
"type": "tree",
"rules": [
    {

    "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseFIPS"
                    },
                    true
                ]
            }
        ],
        "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
        "type": "error"
    },
    {
        "conditions": [],
        "type": "tree",
        "rules": [
            {

      "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseDualStack"
                            },
                            true
                        ]
                    }
                ],
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                "type": "error"
            },
            {
                "conditions": [],

"endpoint": {
                    "url": {
```

```
                    "ref": "Endpoint"
                  },
                  "properties": {},
                  "headers": {}
                },
                "type": "endpoint"
              }
            ]
          }
        ]
      },
      {
        "conditions": [],
        "type": "tree",
        "rules": [
          {
            "conditions": [
              {
                "fn": "isSet",

    "argv": [
                  {
                    "ref": "Region"
                  }
                ]
              }
            ],
            "type": "tree",
            "rules": [
              {
                "conditions": [
                  {
                    "fn": "aws.partition",
                    "argv": [
                      {
                        "ref": "Region"
                      }
                    ],

"assign": "PartitionResult"
                  }
                ],
                "type": "tree",
                "rules": [
                  {
                    "conditions": [
                      {
                        "fn": "booleanEquals",
```

```
                "argv": [
                  {
                    "ref": "UseFIPS"
                  },
                  true
                ]
              },

          {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseDualStack"
                  },
                  true
                ]
              }
            ],
            "type": "tree",
            "rules": [
              {
                "conditions": [
                  {

                "fn": "booleanEquals",
                    "argv": [
                      true,
                      {
                        "fn": "getAttr",
                        "argv": [
                          {
                            "ref": "PartitionResult"
                          },
                          "supportsFIPS"
                        ]

}
                    ]
                  },
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      true,
                      {
                        "fn": "getAttr",
                        "argv": [
                          {
                            "ref": "PartitionResult"
```

```
                    },

                    "supportsDualStack"
                        ]
                    }
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [],
                "type": "tree",
                "rules": [
                    {

            "conditions": [],
                    "endpoint": {
                        "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                        "properties": {},
                        "headers": {}
                    },
                    "type": "endpoint"
                }
                ]
            }
        ]

    },
        {
            "conditions": [],
            "error": "FIPS and DualStack are enabled, but this partition does not support
one or both",
            "type": "error"
        }
    ]
},
{
    "conditions": [
        {
            "fn": "booleanEquals",
            "argv": [
                {

"ref": "UseFIPS"
                },
                true
```

```
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,

{
                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsFIPS"
                                ]
                            }
                        ]
                    }
                ],
                "type": "tree",

            "rules": [
                    {
                        "conditions": [],
                        "type": "tree",
                        "rules": [
                            {
                                "conditions": [],
                                "endpoint": {
                                    "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                                    "properties": {},
                                    "headers": {}

                                },
                                "type": "endpoint"
                            }
                        ]
                    }
                ]
            },
            {
                "conditions": [],
```

```
                "error": "FIPS is enabled but this partition does not support FIPS",
                "type": "error"
            }
        ]

},
        {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseDualStack"
                    },
                    true
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {

         "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
                            {
                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsDualStack"
                                ]
                            }
                        ]
                    }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [],
                        "type": "tree",
                        "rules": [
                            {
                                "conditions": [],
```

"endpoint": {
"url": "https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
}
]
},

{
"conditions": [],
"error": "DualStack is enabled but this partition does not support DualStack",
"type": "error"
}
]
},
{
"conditions": [],
"type": "tree",
"rules": [
{
"conditions": [],
"endpoint": {
"url": "https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
}
]
}
]
},
{
"conditions": [],
"error": "Invalid Configuration: Missing Region",
"type": "error"
}
]
}
]

```
    },
    "smithy.rules#endpointTests": {
      "testCases": [
        {
          "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
            }
          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": true,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
          "expect": {

"endpoint": {
              "url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
            }
          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
             "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
```

```
        }
    },
    "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": false
    }
},
{
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
    "expect": {
        "endpoint": {

    "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
        }
    },
    "params": {
        "Region": "cn-north-1",
        "UseFIPS": true,
        "UseDualStack": true
    }
},
{
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
        }
    },
    "params": {
        "Region": "cn-north-1",
        "UseFIPS": true,
         "UseDualStack": false
    }
},
{
    "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
        }
    },
    "params": {
        "Region": "cn-north-1",
        "UseFIPS": false,
        "UseDualStack": true
    }
},
```

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            {
              "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
              "expect": {
                "endpoint":
{
                    "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
                }
              },
              "params": {
                "Region": "cn-north-1",
                "UseFIPS": false,
                "UseDualStack": false
              }
            },
            {
              "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
              "expect": {
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
                }
              },
              "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": true,
                 "UseDualStack": true
              }
            },
            {
              "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
              "expect": {
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
                }
              },
              "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": true,
                "UseDualStack": false
              }
            },
            {
              "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
              "expect": {
                "endpoint":
{
                    "url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
                }
              },
```

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    "params": {
      "Region": "us-gov-east-1",
      "UseFIPS": false,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "us-gov-east-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": true,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
      }
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": true,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
      "error": "DualStack is enabled but this partition does not support DualStack"
    },
```

"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{

"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {

"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled

and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",

"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",

"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {

"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,

"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true,
"Endpoint": "https://example.com"
}
},
{
"documentation": "Missing region",
"expect": {
"error": "Invalid Configuration: Missing Region"
}

}
],
"version": "1.0"
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "Enabled",

"value": "Enabled",
"documentation": "Enabled LinuxSubscriptionsDiscovery"
},
{
"name": "Disabled",
"value": "Disabled",
"documentation": "Disabled LinuxSubscriptionsDiscovery"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
"type": "structure",
"members": {
"SourceRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Regions in which to discover data for Linux subscriptions. ",
"smithy.api#required": {}
}
},
"OrganizationIntegration": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
"traits": {
"smithy.api#documentation": " Details if you have enabled resource discovery across your accounts in Organizations. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Lists the settings defined for discovering Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},

```
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the running Amazon EC2 instances that were discovered with
commercial Linux\n      subscriptions.</p>",
            "smithy.api#http": {

      "code": 200,
                "method": "POST",
                "uri": "/subscription/ListLinuxSubscriptionInstances"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "Instances"
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by
 the name of\n        <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n
match, or don't match a certain Amazon Machine Image (AMI) ID.</p>\n        <p>The valid names for this filter
are:</p>\n        <ul>\n            <li>\n                <p>\n                <code>AmiID</code>\n                </p>\n
</li>\n            <li>\n                <p>\n                <code>InstanceID</code>\n                </p>\n            </li>\n
<li>\n                <p>\n                <code>AccountID</code>\n                </p>\n            </li>\n            <li>\n
<p>\n                <code>Status</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>Region</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>UsageOperation</code>\n                </p>\n            </li>\n            <li>\n
    <p>\n                <code>ProductCode</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
     <code>InstanceType</code>\n                </p>\n            </li>\n        </ul>\n        <p>The valid Operators for this
filter are:</p>\n        <ul>\n            <li>\n                <p>\n                <code>contains</code>\n                </p>\n
</li>\n            <li>\n                <p>\n                <code>equals</code>\n                </p>\n            </li>\n            <li>\n
        <p>\n                <code>Notequal</code>\n                </p>\n            </li>\n        </ul>"
                }
            },
```

"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "

}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. ",
"smithy.api#length": {
"min": 1,
"max": 16384
}
}
}
},
"traits": {
"smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
"type": "structure",
"members": {
"Instances": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
"traits": {
"smithy.api#documentation": " An array that contains instance objects. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"

```
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the Linux subscriptions that have been discovered. If you have linked your\n organization, the returned results will include data aggregated across your accounts in\n Organizations.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/ListLinuxSubscriptions"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "Subscriptions"
            }

        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>Subscription</code> with an optional operator to see subscriptions that match,\n partially match, or don't match a certain subscription's name.</p>\n <p>The valid names for this filter are:</p>\n <ul>\n <li>\n <p>\n <code>Subscription</code>\n </p>\n </li>\n </ul>\n <p>The valid Operators for this filter are:</p>\n <ul>\n <li>\n <p>\n <code>contains</code>\n </p>\n </li>\n <li>\n <p>\n <code>equals</code>\n </p>\n </li>\n <li>\n <p>\n <code>Notequal</code>\n </p>\n </li>\n </ul>"
                }
            },
```

```
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>",
                    "smithy.api#length": {

                     "min": 1,
                       "max": 16384
                    }
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
        "type": "structure",
        "members": {
            "Subscriptions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
                "traits": {
                    "smithy.api#documentation": "<p>An array that contains subscription objects.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for
 the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "name": "EQUAL",
                    "value": "Equal",
```

"documentation": "Equal operator"
},
{
"name": "NOT_EQUAL",
"value": "NotEqual",
"documentation": "Not equal operator"
},
{
"name": "CONTAINS",
"value": "Contains",
"documentation": "Contains operator"
}
],
"smithy.api#length": {
"min": 1,
"max": 20
}
}
},

"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "Enabled",
"value": "Enabled",
"documentation": "Enabled OrganizationIntegration"
},
{
"name": "Disabled",
"value": "Disabled",
"documentation": "Disabled OrganizationIntegration"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
"type": "list",
"member": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
"type": "string",
"traits": {
"smithy.api#enum": [

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{
                "name": "InProgress",
                "value": "InProgress",
                "documentation": "InProgress status"
            },
            {
                "name": "Completed",
                "value": "Completed",
                "documentation": "Completed status"
            },
            {
                "name": "Successful",
                "value": "Successful",
                "documentation": "Successful status"
            },
            {
                "name": "Failed",
                "value": "Failed",
                "documentation": "Failed status"
            }
        ]
    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
    "type": "list",
    "member": {
        "target": "smithy.api#String",
        "traits":
{
            "smithy.api#length": {
                "min": 1,
                "max": 100
            }
        }
    },
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 100
        },
        "smithy.api#uniqueItems": {}
    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
    "type": "map",
    "key": {
        "target": "smithy.api#String"
    },
```

"value": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
"type": "structure",
"members": {
"Name": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription. "

}
},
"Type": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own\n Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the\n Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS. "
}
},
"InstanceCount": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
"traits": {
"smithy.api#documentation": " The total amount of running instances using this subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " An object which details a discovered Linux subscription. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},

```
        "traits": {
            "smithy.api#documentation": "<p>The request was denied due to request throttling.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
        },

    "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates the service settings for Linux subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/UpdateServiceSettings"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest":
{
        "type": "structure",
        "members": {
            "LinuxSubscriptionsDiscovery": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
                "traits": {
                    "smithy.api#documentation": "<p>Describes if the discovery of Linux subscriptions is enabled.</p>",
                    "smithy.api#required": {}
                }
            },
            "LinuxSubscriptionsDiscoverySettings": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
```

"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. ",

"smithy.api#required": {}
}
},
"AllowUpdate": {
"target": "smithy.api#Boolean",
"traits": {
"smithy.api#documentation": " Describes if updates are allowed to the service settings for Linux subscriptions. If you\n allow updates, you can aggregate Linux subscription data in more than one home Region. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},

"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation":

" A message which details the Linux subscriptions service settings current status. "
                }
            },
            "HomeRegions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                "traits": {
                    "smithy.api#documentation": " The Region in which License Manager displays the aggregated
data for Linux\n   subscriptions. "
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": " The provided input is not valid. Try your request again. ",
            "smithy.api#error": "client"
        }
    }
  }
}

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
```

```
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - Beneficiary
 //   - ProductSKU
 //   - Fingerprint
 //
   - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
```

```
 return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
if err != nil {
 return err
}
if
err := addProtocolFinalizerMiddlewares(stack, options, "ListLicenses"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
```

```
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
     ServiceID,
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
```

```
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 //
 This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
```

```
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack,
 options, "DisassociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
```

```
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
```

```
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource
 Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string
```

```
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil
 {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
```

```
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier
 that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod
```

```
 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string
```

```
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return
 err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
```

```
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide
 to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
```

```
// configuration for workloads running with continuous connectivity. Choose a
// borrow configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity
*types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}
```

```
type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
  return fmt.Errorf("add
 protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
```

```
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName:
 "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
```

```
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return
 err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack);
 err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
```

```
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "GetLicense",
 }
}
```

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```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
   - ProductSKU
 //   - Status
 //   - Fingerprint
 //   - IssuerName
 //   - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}
```

```
type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
 middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
```

```
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region
```

```
string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region:       region,
 ServiceID:     ServiceID,
 OperationName: "ListReceivedLicenses",
 }
}
```

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```
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
        "smithy.api#error": "client"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
      "type": "structure",
      "members": {
        "DirectoryId": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
          }
```

```
            }
        },
        "traits": {
            "smithy.api#documentation":
 "<p>Details about an Active Directory identity provider.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Associates the user to an EC2 instance to utilize user-based
subscriptions.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related
costs will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing
status) in Amazon Web Services Billing. For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n
        monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
```

```
            "uri": "/user/AssociateUser"
          },
          "smithy.api#idempotent": {}
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
        "type": "structure",
        "members": {
          "Username": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
              "smithy.api#required": {}
            }
          },
          "InstanceId": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The ID of the
EC2 instance, which provides user-based subscriptions.</p>",
              "smithy.api#required": {}
            }
          },
          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
              "smithy.api#documentation": "<p>The identity provider of the user.</p>",
              "smithy.api#required": {}
            }
          },
          "Domain": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
        "type": "structure",
        "members": {
          "InstanceUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
             "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
              "smithy.api#required": {}
            }
          }
```

```
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
        "type": "integer"
    },
    "com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request couldn't be completed because it conflicted with the current
state of the\n      resource.</p>",
            "smithy.api#error": "server"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider":
 {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
```

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deregisters the identity provider from providing user-based
subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/DeregisterIdentityProvider"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                 "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
        "type": "structure",
        "members": {
            "IdentityProviderSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
                "traits": {
                    "smithy.api#documentation":
 "<p>Metadata that describes the results of an identity provider operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
        "type": "operation",
        "input": {
```

"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Disassociates the user from an EC2 instance providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/DisassociateUser"
},
"smithy.api#idempotent": {}
}

},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}

```
            }
        },
        "InstanceId": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                "smithy.api#required": {}
            }
        },
        "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
                "smithy.api#documentation":
 "<p>An object that specifies details for the identity provider.</p>",
                "smithy.api#required": {}
            }
        },
        "Domain": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
    "type": "structure",
    "members": {
        "InstanceUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
            "traits": {
                "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
                "smithy.api#required": {}
            }
        }
    }
},

 "com.amazonaws.licensemanagerusersubscriptions#Filter": {
    "type": "structure",
    "members": {
        "Attribute": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The name of an attribute to use as a filter.</p>"
            }
        },
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"Operation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of search (For example, eq, geq, leq) "
}
},
"Value": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Value of the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter name and value pair that is used to return more specific results from a describe\n operation. Filters can be used to match a set of resources by specific criteria, such as tags,\n attributes, or IDs. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
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"com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
"type": "union",
"members": {
"ActiveDirectoryIdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
"traits": {
"smithy.api#documentation": " An object that details an Active Directory identity provider. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about an identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}

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            }
        },
        "Settings": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
            "traits": {
                "smithy.api#documentation": "<p>An object that details the registered identity providers product
related configuration\n      settings such as the subnets to provision VPC endpoints.</p>",
                "smithy.api#required":
 {}
            }
        },
        "Product": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                "smithy.api#required": {}
            }
        },
        "Status": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The status of an identity provider.</p>",
                "smithy.api#required": {}
            }
        },
        "FailureMessage": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The failure message associated with an identity provider.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation":
 "<p>Describes an identity provider.</p>"
    }
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
    }
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
    "type": "structure",
    "members": {
        "InstanceId": {
            "target": "smithy.api#String",
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"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of an EC2 instance resource. ",
"smithy.api#required": {}
}
},
"Products": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
"traits": {
"smithy.api#documentation": " A list of provided user-based subscription products. ",
"smithy.api#required": {}
}
},
"LastStatusCheckDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date of the last status check. "
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for an EC2 instance. "
}

}
},
"traits": {
"smithy.api#documentation": " Describes an EC2 instance providing user-based subscriptions. "
}
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"com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
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"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
"type": "structure",
"members": {

"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits":
{
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a user associated with an EC2 instance. ",
"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for users of an EC2 instance. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"AssociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was associated with an EC2 instance. "
}
},

"DisassociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was disassociated from an EC2 instance. "
}
}

},
"traits": {
"smithy.api#documentation": " Describes users of an EC2 instance providing user-based subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " An exception occurred with the service. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
"type": "service",

"version": "2018-05-10",
"operations": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
},

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            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

        },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
            }
        ],
        "traits": {
            "aws.api#service": {
                "sdkId": "License Manager User Subscriptions",
                "arnNamespace": "license-manager-user-subscriptions",
                "cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
            },
            "aws.auth#sigv4": {
                "name": "license-manager-user-subscriptions"
             },
            "aws.protocols#restJson1": {},
            "smithy.api#cors": {
                "additionalAllowedHeaders": [
                    "*",
                    "content-type",
                    "x-amz-content-sha256",
                    "x-amz-user-agent",
                    "x-amzn-platform-id",
                    "x-amzn-trace-id",
                    "content-length",
                    "x-api-key",
                    "authorization",
                    "x-amz-date",
                    "x-amz-security-token",
                    "Access-Control-Allow-Headers",
                    "Access-Control-Allow-Methods",
```

"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"

]
},
"smithy.api#documentation": " With License Manager, you can create user-based subscriptions to utilize licensed software with\n a per user subscription fee on Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager User Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}

},
"rules": [
{
"conditions": [

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            {
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              "argv": [
                {
                  "ref": "Endpoint"
                }
              ]
            }
          ],
          "type": "tree",
          "rules": [
            {
              "conditions": [
                {
                  "fn": "booleanEquals",
                  "argv": [
                    {
                      "ref": "UseFIPS"
                    },

                  true
                  ]
                }
              ],
              "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
              "type": "error"
            },
            {
              "conditions": [
                {
                  "fn": "booleanEquals",
                  "argv": [
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                      "ref": "UseDualStack"
                    },
                    true
                  ]
                }
              ],

"error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
              "type": "error"
            },
            {
              "conditions": [],
              "endpoint": {
                "url": {
                  "ref": "Endpoint"
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                    },
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ]
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                "argv": [

{
                        "ref": "Region"
                    }
                ]
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        "rules": [
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                "conditions": [
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                        "fn": "aws.partition",
                        "argv": [
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                                "ref": "Region"
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                        "assign": "PartitionResult"
                    }
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                "type": "tree",

"rules": [
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                                "argv": [
                                    {
                                        "ref": "UseFIPS"
                                    },
                                    true
                                ]
                            },
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                    {
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                        "argv": [
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                                "ref": "UseDualStack"

                            },
                            true
                        ]
                    }
                ],
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                "rules": [
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                        "conditions": [
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                                "fn": "booleanEquals",
                                "argv": [
                                    true,
                                    {
                                        "fn": "getAttr",

"argv": [
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                                                "ref": "PartitionResult"
                                            },
                                            "supportsFIPS"
                                        ]
                                    }
                                ]
                            },
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    true,
                                    {

"fn": "getAttr",
                                        "argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },
                                            "supportsDualStack"
                                        ]
                                    }
                                ]
                            }
                        ],
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"type": "tree",
"rules": [
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"conditions": [],
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
},
{
"conditions": [],
"error": "FIPS and DualStack are enabled, but this partition does not support one or both",
"type": "error"
}
]
},
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
},
true
]
}
],
"type": "tree",

"rules": [
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"conditions": [
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"fn": "booleanEquals",
"argv": [
true,
{
"fn": "getAttr",
"argv": [
{

"ref": "PartitionResult"
},
"supportsFIPS"

]
}
]
}
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"type": "tree",
"rules": [
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"conditions": [],
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.{Region}.{PartitionResult#dnsSuffix}",
"properties": {},
"headers": {}

},
"type": "endpoint"
}
]
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{
"conditions": [],
"error": "FIPS is enabled but this partition does not support FIPS",
"type": "error"
}
]
},
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseDualStack"
},
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]
}
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"type": "tree",
"rules": [
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"conditions": [
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"fn": "booleanEquals",
"argv": [
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"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsDualStack"
]
}
]
}
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"type": "tree",
"rules": [
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"conditions": [],
"endpoint": {
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subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
},
{
"conditions": [],
"error": "DualStack is enabled but this partition does
not support DualStack",
"type": "error"
}
]
},
{
"conditions": [],
"endpoint": {
"url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"

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                }
            ]
        }
    ]
  },
  {
    "conditions":
[],
    "error": "Invalid Configuration: Missing Region",
    "type": "error"
  }
]
},
"smithy.rules#endpointTests": {
  "testCases": [
    {
      "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
    {
      "documentation":
"For region us-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
        }
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```
            },

        "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": true
            }
        },
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            "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region cn-north-1 with
 FIPS enabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
                }
            },
            "params": {
                "Region": "cn-north-1",
                "UseFIPS": true,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
                }
            },

    "params": {
                "Region": "cn-north-1",
                "UseFIPS": true,
                "UseDualStack": false
```

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            }
        },
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            "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
                }
            },
            "params": {
                "Region": "cn-north-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region cn-north-1
with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
                }
            },
            "params": {
                "Region": "cn-north-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "endpoint": {
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                }
            },

    "params": {
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                "UseFIPS": true,
                "UseDualStack": true
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        {
            "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
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                }
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                "UseFIPS": true,
                "UseDualStack": false
            }
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        {
            "documentation": "For region us-gov-east-1
with FIPS disabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
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        {
            "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
                }
            },

    "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": true,
                "UseDualStack": true
            }
        },
        {
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"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect":
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"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack":
true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but
this partition does not support one or both"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true

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            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
                }
            },
            "params": {
                "Region": "us-isob-east-1",
                "UseFIPS": true,
                "UseDualStack": false
            }

    },
        {
            "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
                "error": "DualStack is enabled but this partition does not support DualStack"
            },
            "params": {
                "Region": "us-isob-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
                }
            },
             "params": {
                "Region": "us-isob-east-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://example.com"
                }
            },
            "params": {
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"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{

"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
},
"params": {
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"UseFIPS": false,
"UseDualStack": true,
"Endpoint": "https://example.com"
}
},
{
"documentation": "Missing region",
"expect": {

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                "error": "Invalid Configuration: Missing Region"
            }
        }
    ],
    "version": "1.0"
  }
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
    }
  ],
  "traits": {
    "smithy.api#documentation": "<p>Lists the identity providers for user-based subscriptions.</p>",
    "smithy.api#http": {
      "code": 200,
      "method": "POST",
      "uri": "/identity-provider/ListIdentityProviders"
    },
    "smithy.api#paginated":
```

{
            "inputToken": "NextToken",
            "outputToken": "NextToken",
            "pageSize": "MaxResults",
            "items": "IdentityProviderSummaries"
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
        "type": "structure",
        "members": {
          "MaxResults": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
            "traits": {
              "smithy.api#documentation": " Maximum number of results to return in a single call. "
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": " Token for the next set of results. "
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
{
        "type": "structure",
        "members": {
          "IdentityProviderSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
            "traits": {
              "smithy.api#documentation": " Metadata that describes the list identity providers operation. ",
              "smithy.api#required": {}
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": " Token for the next set of results. "
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"

```
    },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
        "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/instance/ListInstances"
        },
        "smithy.api#paginated": {
            "inputToken": "NextToken",
            "outputToken": "NextToken",
            "pageSize": "MaxResults",
            "items": "InstanceSummaries"
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
    "type": "structure",
    "members": {
        "MaxResults": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
```

```
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
        "type":
 "structure",
        "members": {
            "InstanceSummaries": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the list instances operation.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the user-based subscription products available from an identity
provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListProductSubscriptions"
            },
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "ProductUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name
 of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
```

"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {

"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
"type": "structure",
"members": {
"ProductUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list product subscriptions operation. "
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target":
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists user associations for an identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/ListUserAssociations"
},
"smithy.api#paginated":
{
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "InstanceUserSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {

"type": "structure",
"members": {
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
"type": "structure",
"members": {
"InstanceUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list user association operation. "
}

```
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
  },
  "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
    "type": "structure",
    "members": {

    "Username": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                "smithy.api#required": {}
            }
        },
        "Product": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                "smithy.api#required": {}
            }
        },
        "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
                "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                "smithy.api#required": {}
            }

},
        "Status": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The status of a product for a user.</p>",
                "smithy.api#required": {}
            }
        },
        "StatusMessage": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The status message for a product for a user.</p>"
            }
        },
```

```
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            },
            "SubscriptionStartDate": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The
start date of a subscription.</p>"
                }
            },
            "SubscriptionEndDate": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The end date of a subscription.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The summary of the user-based subscription products for a user.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
         },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Registers an identity provider for user-based subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/RegisterIdentityProvider"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity
provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Settings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
                "traits": {
                    "smithy.api#documentation": "<p>The registered identity providers product related configuration
settings such as the\n      subnets to provision VPC endpoints.</p>"
                }
            }
```

```
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
        "type": "structure",
        "members": {
            "IdentityProviderSummary":
 {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the results of an identity provider
operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The resource couldn't be found.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 404
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
        "type": "string",

   "traits": {
            "smithy.api#length": {
                "min": 5,
                "max": 200
            },
            "smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
```

"smithy.api#documentation": " The request failed because a service quota is exceeded. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Settings": {
"type": "structure",
"members": {
"Subnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation":
" The subnets defined for the registered identity provider. ",
"smithy.api#length": {
"min": 1
},
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID that allows inbound TCP port 1688
communication between resources in\n your VPC and the VPC endpoint for activation servers. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings
such as the\n subnets to provision VPC endpoints, and the security group ID that
is associated with the VPC\n endpoints. The security group should permit inbound TCP port 1688
communication from resources\n in the VPC. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"

```
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Starts a product subscription for a user with the specified identity provider.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related costs will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing.
 For more information, see <a href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n        monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/StartProductSubscription"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
```

```
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
        "type": "structure",
         "members": {
            "ProductUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the start product subscription
operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

    },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Stops a product subscription for a user with the specified identity
provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/StopProductSubscription"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required":
{}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
```

```
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
        "type": "structure",
        "members": {
            "ProductUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
                "traits": {
                    "smithy.api#documentation":
"<p>Metadata that describes the start product subscription operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StringList": {
        "type": "list",
        "member": {
            "target": "smithy.api#String"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Subnet": {
        "type": "string",
        "traits": {
            "smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Subnets": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
            "message": {

             "target": "smithy.api#String"
            }
        },
        "traits": {
```

"smithy.api#documentation": " The request was denied because of request throttling. Retry the request. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
"type": "operation",
"input": {
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"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
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"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
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"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
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"traits": {
"smithy.api#documentation": " Updates additional product configuration settings for the registered identity\n provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/UpdateIdentityProviderSettings"
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"smithy.api#idempotent": {}
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"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#required": {}
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"Product": {

"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
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"UpdateSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings. You can\n update any combination of settings in a single operation such as the: \n \n \n Subnets which you want to add to provision VPC endpoints. \n \n \n Subnets which you want to remove the VPC endpoints from. \n \n \n Security group ID which permits traffic to the VPC endpoints. \n \n ",
"smithy.api#required": {}
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"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
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"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#required": {}
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"traits": {
"smithy.api#documentation": " The ID of one or more subnets in which License Manager will create a VPC endpoint for products that\n require connectivity to activation servers. ",
"smithy.api#required": {}
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"RemoveSubnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets to remove. ",
"smithy.api#required": {}
}

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            },
            "SecurityGroupId": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
                "traits": {
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 that allows inbound TCP port 1688 communication between resources in\n      your VPC and the VPC endpoints for
activation servers.</p>"
                }
            }
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        "traits": {
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settings such as\n      the subnets to provision VPC endpoints.</p>"
        }
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    "com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
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        "members": {
            "message": {
                "target": "smithy.api#String"
            }
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        "traits": {
            "smithy.api#documentation": "<p>A parameter is not valid.</p>",
            "smithy.api#error": "client"
        }
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            "namespace": "*"
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            "namespace": "*"
        },
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            "id": "HttpHeaderTrait",
            "namespace": "*"
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            "id": "HttpUriConflict",
            "namespace": "*"
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            "namespace": "*"
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"shapes": {
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                "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
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                "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
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"target": "com.amazonaws.licensemanager#CreateLicenseVersion"
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"target": "com.amazonaws.licensemanager#CreateToken"
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"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
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"target": "com.amazonaws.licensemanager#DeleteToken"
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"target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

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"target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
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"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
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"target": "com.amazonaws.licensemanager#GetLicenseUsage"
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"target": "com.amazonaws.licensemanager#GetServiceSettings"
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"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
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"target": "com.amazonaws.licensemanager#ListLicenses"
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"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
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"target": "com.amazonaws.licensemanager#ListTagsForResource"
},
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"target": "com.amazonaws.licensemanager#ListTokens"

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                "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
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                "target": "com.amazonaws.licensemanager#RejectGrant"
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                "target": "com.amazonaws.licensemanager#UntagResource"
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                "target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
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                "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
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                "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
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                "target": "com.amazonaws.licensemanager#UpdateServiceSettings"
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                "arnNamespace": "license-manager",
                "cloudFormationName": "LicenseManager",
                "cloudTrailEventSource": "licensemanager.amazonaws.com",
                "endpointPrefix": "license-manager"
            },
            "aws.auth#sigv4": {
                "name": "license-manager"
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            "aws.protocols#awsJson1_1": {},
            "smithy.api#documentation": "<p>License Manager makes it easier to manage licenses from software
vendors across multiple \n        Amazon Web Services accounts and on-premises servers.</p>",
            "smithy.api#title": "AWS License Manager",
            "smithy.api#xmlNamespace": {
                "uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
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            "smithy.rules#endpointRuleSet": {
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                "parameters": {
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              "required": false,
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              "type": "String"
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            "UseDualStack": {
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              "required": true,
              "default": false,
              "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
              "type": "Boolean"
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            "UseFIPS": {
              "builtIn": "AWS::UseFIPS",
              "required": true,
              "default": false,
              "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
              "type": "Boolean"
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            "Endpoint": {
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              "required": false,
              "documentation": "Override the endpoint used to send this request",
              "type": "String"
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                  "argv": [
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            "type": "error"
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            "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
            "type": "error"
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            "endpoint": {
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                "ref": "Endpoint"
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              "headers": {}
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            "type": "endpoint"
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            "argv": [
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                "ref": "Region"
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                            "argv": [
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"argv": [
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"ref": "PartitionResult"
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"supportsDualStack"
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"conditions": [],
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fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}

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"conditions": [],

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"type": "error"
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"argv": [
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"supportsDualStack"
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"properties": {},
"headers": {}

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"type": "endpoint"
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"type": "error"
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"headers": {}
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"type": "error"
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"expect": {
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        "params": {
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            "UseDualStack": false
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        "expect": {
            "endpoint": {
                "url": "https://license-manager.ap-east-1.amazonaws.com"
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        "params": {
            "Region": "ap-east-1",
            "UseFIPS": false,
            "UseDualStack": false
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        "expect": {
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            "UseDualStack": false
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        "expect": {
            "endpoint": {
                "url": "https://license-manager.ap-northeast-2.amazonaws.com"
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        "params": {
            "Region": "ap-northeast-2",
            "UseFIPS": false,
            "UseDualStack": false
        }
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          "expect": {
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            "Region": "ap-northeast-3",
            "UseFIPS": false,
            "UseDualStack": false
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          "params": {
            "Region": "ap-south-1",
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            "UseDualStack": false
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          "params": {
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            "UseDualStack": false
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          "documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ap-southeast-2.amazonaws.com"
            }
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            },
            "params": {
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                "UseDualStack": false
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"documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
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                "endpoint": {
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            },
            "params": {
                "Region": "ap-southeast-3",
                "UseFIPS": false,
                "UseDualStack": false
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                "UseFIPS": false,
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            "params": {
                "Region": "eu-central-1",
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"params": {
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"UseFIPS": false,
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"params": {
"Region": "eu-west-1",
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"endpoint": {
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"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,

"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url":
"https://license-manager.cn-north-1.amazonaws.com.cn"
}
},
"params": {

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            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
            }
        },
        "params": {
            "Region": "cn-northwest-1",
            "UseFIPS": false,
            "UseDualStack": false

}
    },
    {
        "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
            }
        },
        "params": {
            "Region": "cn-north-1",
            "UseFIPS": true,
            "UseDualStack": true
        }
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    {
        "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
             }
        },
        "params": {
            "Region": "cn-north-1",
            "UseFIPS": true,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
        "expect": {
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            "endpoint": {
                "url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
            }
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        "params": {
            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": true
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    },

{
        "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.us-gov-east-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
            }
         },
        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": true,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.us-gov-west-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "us-gov-west-1",
            "UseFIPS": false,
            "UseDualStack": false
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                }
            },
            {
                "documentation":
"For region us-gov-west-1 with FIPS enabled and DualStack disabled",
                "expect": {
                    "endpoint": {
                        "url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
                    }
                },
                "params": {
                    "Region": "us-gov-west-1",
                    "UseFIPS": true,
                    "UseDualStack": false
                }
            },
            {
                "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
                "expect": {
                    "endpoint": {
                        "url": "https://license-manager-fips.us-gov-east-1.api.aws"
                    }
                },

    "params": {
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                    "UseFIPS": true,
                    "UseDualStack": true
                }
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                "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
                "expect": {
                    "endpoint": {
                        "url": "https://license-manager.us-gov-east-1.api.aws"
                    }
                },
                "params": {
                    "Region": "us-gov-east-1",
                    "UseFIPS": false,
                    "UseDualStack": true
                }
            },
            {
                "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack
disabled",
                "expect": {
                    "endpoint": {
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"url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
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"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled
but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {

"endpoint": {
"url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},

{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
}
},

"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{

"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,

"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error":
"Invalid Configuration: Dualstack and custom endpoint are not supported"
},
"params": {

"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true,
"Endpoint": "https://example.com"
}
},
{
"documentation": "Missing region",
"expect": {
"error": "Invalid Configuration: Missing Region"
}
}
],
"version": "1.0"
}
}
},
"com.amazonaws.licensemanager#AcceptGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#AcceptGrantRequest"

},
"output": {
"target": "com.amazonaws.licensemanager#AcceptGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"

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    }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant
ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
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"com.amazonaws.licensemanager#AccessDeniedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {

"code": "ServiceAccessDenied",
"httpResponseCode": 401
},
"smithy.api#documentation": " Access to resource denied. ",
"smithy.api#error": "client",
"smithy.api#httpError": 401
}
},
"com.amazonaws.licensemanager#ActivationOverrideBehavior": {
"type": "enum",
"members": {
"DISTRIBUTED_GRANTS_ONLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
}
},
"ALL_GRANTS_PERMITTED_BY_ISSUER": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
}
}
}
},
"com.amazonaws.licensemanager#AllowedOperation": {

"type": "enum",
"members": {
"CREATE_GRANT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CreateGrant"
}
},
"CHECKOUT_LICENSE": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "CheckoutLicense"
}
},
"CHECKOUT_BORROW_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckoutBorrowLicense"
}
},
"CHECK_IN_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckInLicense"
}
},
"EXTEND_CONSUMPTION_LICENSE":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ExtendConsumptionLicense"
}
},
"LIST_PURCHASED_LICENSES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ListPurchasedLicenses"
}
},
"CREATE_TOKEN": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CreateToken"
}
}
}
},
"com.amazonaws.licensemanager#AllowedOperationList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#AllowedOperation"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max":
7
}
}

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    },
    "com.amazonaws.licensemanager#Arn": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 2048
            },
            "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-
z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
        }
    },
    "com.amazonaws.licensemanager#ArnList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Arn"
        }
    },
    "com.amazonaws.licensemanager#AuthorizationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError":
 {
                "code": "AuthorizationFailure",
                "httpResponseCode": 403
            },
            "smithy.api#documentation": "<p>The Amazon Web Services user account does not have permission to
perform the action. Check the IAM\n        policy associated with this account.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 403
        }
    },
    "com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
        "type": "structure",
        "members": {
            "LastRunTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
                }
            }
        },
        "traits": {
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"smithy.api#documentation": " Describes automated discovery. "
}
},

"com.amazonaws.licensemanager#Boolean": {
"type": "boolean",
"traits": {
"smithy.api#default": false
}
},
"com.amazonaws.licensemanager#BorrowConfiguration": {
"type": "structure",
"members": {
"AllowEarlyCheckIn": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether early check-ins are allowed. ",
"smithy.api#required": {}
}
},
"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the borrow configuration, in minutes. ",
"smithy.api#required": {}
}
}

},
"traits": {
"smithy.api#documentation": " Details about a borrow configuration. "
}
},
"com.amazonaws.licensemanager#BoxBoolean": {
"type": "boolean"
},
"com.amazonaws.licensemanager#BoxInteger": {
"type": "integer"
},
"com.amazonaws.licensemanager#BoxLong": {
"type": "long"
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"com.amazonaws.licensemanager#CheckInLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"

},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks in the specified license. Check in a license when it is no longer in use. "
}
},
"com.amazonaws.licensemanager#CheckInLicenseRequest":
{
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " License beneficiary. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CheckInLicenseResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicense":
{
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{
"target":
"com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{

"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks out the specified license for offline use. "
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
"type": "structure",
"members":
{
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The license must use the borrow consumption configuration. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. Partial checkouts are not supported. ",
"smithy.api#required": {}
}
},
"DigitalSignatureMethod": {
"target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
"traits": {
"smithy.api#documentation": " Digital signature method. The possible value is JSON Web Signature (JWS) algorithm PS384.\n For more information, see RFC 7518 Digital Signature with RSASSA-PSS. ",
"smithy.api#required": {}
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "

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            }
          },
          "CheckoutMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
              "smithy.api#documentation": "<p>Information about constraints.</p>"
            }
          },
          "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientToken",
            "traits": {
              "smithy.api#documentation":
"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
          },
          "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License consumption token.</p>"
            }
          },
          "EntitlementsAllowed":
{
            "target": "com.amazonaws.licensemanager#EntitlementDataList",
            "traits": {
              "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
            }
          },
          "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Node ID.</p>"
            }
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            },
            "SignedToken": {
                "target": "com.amazonaws.licensemanager#SignedToken",
                "traits": {
                    "smithy.api#documentation": "<p>Signed token.</p>"
                }
            },
            "IssuedAt": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license checkout
is issued.</p>"
                }
            },
            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
                }
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license.</p>\n        <note>\n            <p>If the
account that created the license is the same that is performing the check out, you must\n            specify the account
as the beneficiary.</p>\n        </note>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutLicenseRequest": {
        "type": "structure",
        "members": {
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product
 SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "CheckoutType": {
                "target": "com.amazonaws.licensemanager#CheckoutType",
                "traits": {
                    "smithy.api#documentation": "<p>Checkout type.</p>",
                    "smithy.api#required": {}
                }
            },
```

"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Key fingerprint identifying the license. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. ",

"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
"type": "structure",
"members": {
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. "

```
            }
        },
        "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
            }
        },
        "EntitlementsAllowed": {
            "target": "com.amazonaws.licensemanager#EntitlementDataList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
            }
        },
         "SignedToken": {
            "target": "com.amazonaws.licensemanager#SignedToken",
            "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
            }
        },
        "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        },
        "IssuedAt": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
            }
        },
        "Expiration": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date and
time at which the license checkout expires.</p>"
            }
        },
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
```

```
    }
},
"com.amazonaws.licensemanager#CheckoutType": {
    "type": "enum",
    "members": {
        "PROVISIONAL": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PROVISIONAL"
            }
        },
        "PERPETUAL": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PERPETUAL"
            }
        }
    }
},
"com.amazonaws.licensemanager#ClientRequestToken": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 36
        }
    }
},
"com.amazonaws.licensemanager#ClientToken": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 2048
        },
        "smithy.api#pattern": "^\\S+$"
    }
},
"com.amazonaws.licensemanager#ConflictException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "ConflictException",
```

"httpResponseCode":
409
},
"smithy.api#documentation": " There was a conflict processing the request. Try your request again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 409
}
},
"com.amazonaws.licensemanager#ConsumedLicenseSummary": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Resource type of the resource consuming a license. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}
},

"traits": {
"smithy.api#documentation": " Details about license consumption. "
}
},
"com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
}
},
"com.amazonaws.licensemanager#ConsumptionConfiguration": {
"type": "structure",
"members": {
"RenewType": {
"target": "com.amazonaws.licensemanager#RenewType",
"traits": {
"smithy.api#documentation": " Renewal frequency. "
}
},
"ProvisionalConfiguration": {
"target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
"traits": {

"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"BorrowConfiguration": {
"target": "com.amazonaws.licensemanager#BorrowConfiguration",
"traits": {
"smithy.api#documentation": " Details about a borrow configuration. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a consumption configuration. "
}
},
"com.amazonaws.licensemanager#CreateGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target":
"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a grant for the specified license. A grant shares the use of

license\n entitlements with a specific Amazon Web Services account, an organization, or an\n organizational unit (OU). For more
information, see Granted licenses in License Manager in the License Manager User Guide. "
}
},
"com.amazonaws.licensemanager#CreateGrantRequest": {
"type": "structure",
"members": {
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}

}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Principals": {
"target": "com.amazonaws.licensemanager#PrincipalArnList",
"traits": {
"smithy.api#documentation": " The grant principals. You can specify one of the following as an Amazon Resource Name\n (ARN): \n \n \n An Amazon Web Services account, which includes only the account specified. \n \n \n \n \n An organizational unit (OU), which includes all accounts in the OU. \n \n \n \n
\n An organization, which will include all accounts across your organization. \n \n ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

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                "smithy.api#documentation": "<p>Home Region of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "AllowedOperations": {
            "target": "com.amazonaws.licensemanager#AllowedOperationList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed operations for the grant.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},

"com.amazonaws.licensemanager#CreateGrantResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateGrantVersion":
{
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
```

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
             },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information,
see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",

    "smithy.api#required": {}
                }
            },
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
```

"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the grant. "
}
},
"Options": {
"target": "com.amazonaws.licensemanager#Options",
"traits": {
"smithy.api#documentation": " The options specified for the grant. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
"type": "structure",
"members": {

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            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>New version of the grant.</p>"
                }
            }
        },
        "traits":
{
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license configuration.</p>\n        <p>A license configuration is an abstraction of a customer license agreement that can be\n        consumed and enforced by License Manager. Components include specifications for the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n        Dedicated Instance, Dedicated Host, or
 all of these), license affinity  to host (how long a \n        license must be associated with a host), and the number of licenses purchased and used.</p>"
        }
```

```
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Name of the license configuration.</p>",
            "smithy.api#required": {}
          }
        },
        "Description": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Description of the license configuration.</p>"
          }
        },
        "LicenseCountingType": {
          "target": "com.amazonaws.licensemanager#LicenseCountingType",
           "traits": {
            "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
            "smithy.api#required": {}
          }
        },
        "LicenseCount": {
          "target": "com.amazonaws.licensemanager#BoxLong",
          "traits": {
            "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
          }
        },
        "LicenseCountHardLimit": {
          "target": "com.amazonaws.licensemanager#BoxBoolean",
          "traits": {
            "smithy.api#documentation": "<p>Indicates whether hard or soft license enforcement is used.
Exceeding a hard limit\n        blocks the launch of new instances.</p>"
          }
        },
        "LicenseRules": {
          "target":
 "com.amazonaws.licensemanager#StringList",
          "traits": {
            "smithy.api#documentation": "<p>License rules. The syntax is #name=value (for example,
#allowedTenancy=EC2-DedicatedHost). The available rules \n        vary by dimension, as follows.</p>\n
<ul>\n          <li>\n            <p>\n              <code>Cores</code> dimension: <code>allowedTenancy</code> |\n
          <code>licenseAffinityToHost</code> |\n            <code>maximumCores</code> |
<code>minimumCores</code>\n            </p>\n          </li>\n          <li>\n            <p>\n
<code>Instances</code> dimension: <code>allowedTenancy</code> | \n            <code>maximumCores</code> |
<code>minimumCores</code> |\n            <code>maximumSockets</code> | <code>minimumSockets</code> |\n
```

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        <code>maximumVcpus</code> | <code>minimumVcpus</code>\n            </p>\n          </li>\n
<li>\n
  <p>\n                <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n
<code>licenseAffinityToHost</code> |\n            <code>maximumSockets</code> |
<code>minimumSockets</code>\n            </p>\n          </li>\n          <li>\n            <p>\n
<code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n
<code>honorVcpuOptimization</code> | \n            <code>maximumVcpus</code> |
<code>minimumVcpus</code>\n            </p>\n          </li>\n        </ul>\n        <p>The unit for
<code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n        values for
<code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n
<code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n
<code>True</code> and <code>False</code>.</p>"
            }
          },

  "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
              "smithy.api#documentation": "<p>Tags to add to the license configuration.</p>"
            }
          },
          "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
          },
          "ProductInformationList": {
            "target": "com.amazonaws.licensemanager#ProductInformationList",
            "traits": {
              "smithy.api#documentation": "<p>Product information.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse":
 {
        "type": "structure",
        "members": {
          "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
```

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            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {

                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
                    "smithy.api#required": {}
```

```
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting
from. \n\n        For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            },
            "DestinationLicenseContext":
 {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting to.
For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

       "traits": {
                    "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
        },
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"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a report generator. "
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"ReportGeneratorName":
{
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types an be

generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}

}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " Defines the type of license configuration the report generator tracks. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}

```
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
      "type": "structure",
      "members": {
        "LicenseManagerReportGeneratorArn":
{
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the new report
generator.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#CreateLicenseRequest": {
      "type": "structure",
      "members": {
        "LicenseName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License name.</p>",
            "smithy.api#required": {}
          }
        },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product
name.</p>",
            "smithy.api#required": {}
          }
        },
        "ProductSKU": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product SKU.</p>",
            "smithy.api#required": {}
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#Issuer",
          "traits": {
            "smithy.api#documentation": "<p>License issuer.</p>",
            "smithy.api#required": {}
          }
```

```
            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Home Region for the license.</p>",
                    "smithy.api#required": {}

    }
            },
            "Validity": {
                "target": "com.amazonaws.licensemanager#DatetimeRange",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",
                    "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>",
                    "smithy.api#required": {}
                }
             },
            "ConsumptionConfiguration": {
                "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n          running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n          usage.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
```

"traits": {
"smithy.api#documentation":
" Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
             },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target":
"com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

"smithy.api#documentation": " Product name. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits":
{
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}

```
            },

  "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>",
                    "smithy.api#required": {}
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>"
                }
            }
        },
        "traits": {

 "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>License ARN.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>New version of the license.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>"
```

```
            }
          }
        },
        "traits": {
          "smithy.api#output":
{}
        }
      },
      "com.amazonaws.licensemanager#CreateToken": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateTokenRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateTokenResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#RedirectException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },

      {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Creates a long-lived token.</p>\n        <p>A refresh token is a JWT
token used to get an access token. With an access token,\n        you can call AssumeRoleWithWebIdentity to get
role credentials that you can use to \n        call License Manager to manage the specified license.</p>"
        }
```

```
    },
    "com.amazonaws.licensemanager#CreateTokenRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits":
 {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The ARN is
mapped to the aud claim of the\n         JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "RoleArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the IAM roles to embed in the
token. \n         License Manager does not check whether the roles are in use.</p>"
                }
            },
            "ExpirationInDays": {
                "target": "com.amazonaws.licensemanager#Integer",
                "traits": {
                    "smithy.api#documentation": "<p>Token expiration, in days, counted from token creation. The
default is 365 days.</p>"
                }
            },
            "TokenProperties": {
                 "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Data specified by the caller to be included in the JWT token. The
data is mapped\n         to the amr claim of the JWT token.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Idempotency token, valid for 10 minutes.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateTokenResponse": {
        "type": "structure",
```

```
    "members": {
      "TokenId": {
        "target": "com.amazonaws.licensemanager#String",

       "traits": {
          "smithy.api#documentation": "<p>Token ID.</p>"
        }
      },
      "TokenType": {
        "target": "com.amazonaws.licensemanager#TokenType",
        "traits": {
          "smithy.api#documentation": "<p>Token type.</p>"
        }
      },
      "Token": {
        "target": "com.amazonaws.licensemanager#TokenString",
        "traits": {
          "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#DateTime": {
    "type": "timestamp"
  },
  "com.amazonaws.licensemanager#DatetimeRange": {
    "type": "structure",
    "members": {
      "Begin": {
         "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
          "smithy.api#documentation": "<p>Start of the time range.</p>",
          "smithy.api#required": {}
        }
      },
      "End": {
        "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
          "smithy.api#documentation": "<p>End of the time range.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
    }
```

```
    },
    "com.amazonaws.licensemanager#DeleteGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes
the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "StatusReason": {
```

"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " The Status reason for the delete request. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the
grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation":
" Grant version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteLicense": {
"type": "operation",
"input": {

"target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license configuration.</p>\n        <p>You cannot
delete a license configuration that is in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
        "type": "structure",
        "members":
 {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
        },
        "output": {
```

"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified report generator. \n This action deletes the report generator, which stops it from generating future reports.\n The action cannot be reversed. It has no effect on the previous reports from this generator. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to be deleted. ",
"smithy.api#required": {}
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. ",
"smithy.api#required":
{}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseResponse": {
"type": "structure",
"members": {
"Status": {
"target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"DeletionDate": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date when the license is deleted. "
}
}

```
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteToken": {
        "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },

    {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

"smithy.api#documentation": " Token ID. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteTokenResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}

}
},
"com.amazonaws.licensemanager#DigitalSignatureMethod": {
"type": "enum",
"members": {
"JWT_PS384": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "JWT_PS384"
}
}
}
},
"com.amazonaws.licensemanager#Entitlement": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement resource. Use only
if the unit is None. "
}
},
"MaxCount": {
"target": "com.amazonaws.licensemanager#Long",
"traits": {

"smithy.api#documentation": " Maximum entitlement count. Use if the unit is not None. "
}
},
"Overage": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether overages are allowed. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementUnit",
"traits": {
"smithy.api#documentation": " Entitlement unit. ",
"smithy.api#required": {}
}
},
"AllowCheckIn": {
"target":
"com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether check-ins are allowed. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a resource entitled for use with a license. "
}
},
"com.amazonaws.licensemanager#EntitlementData": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement
data value. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {

"smithy.api#documentation": " Entitlement data unit. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Data associated with an entitlement resource. "
}
},
"com.amazonaws.licensemanager#EntitlementDataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#EntitlementData"
}
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
"type": "enum",
"members": {
"COUNT": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Count"
}
},
"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"SECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Seconds"
}
},
"MICROSECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Microseconds"
}
},
"MILLISECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Milliseconds"
}

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        },
        "BYTES": {
          "target": "smithy.api#Unit",
           "traits": {
             "smithy.api#enumValue": "Bytes"
          }
        },
        "KILOBYTES": {
          "target": "smithy.api#Unit",
          "traits": {
             "smithy.api#enumValue": "Kilobytes"
          }
        },
        "MEGABYTES": {
          "target": "smithy.api#Unit",
          "traits": {
             "smithy.api#enumValue": "Megabytes"
          }
        },
        "GIGABYTES": {
          "target": "smithy.api#Unit",
          "traits": {
             "smithy.api#enumValue": "Gigabytes"
          }
        },
        "TERABYTES": {
          "target": "smithy.api#Unit",
          "traits": {
             "smithy.api#enumValue": "Terabytes"
          }
        },
        "BITS":
{
          "target": "smithy.api#Unit",
          "traits": {
             "smithy.api#enumValue": "Bits"
          }
        },
        "KILOBITS": {
          "target": "smithy.api#Unit",
          "traits": {
             "smithy.api#enumValue": "Kilobits"
          }
        },
        "MEGABITS": {
          "target": "smithy.api#Unit",
          "traits": {
             "smithy.api#enumValue": "Megabits"
```

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            }
        },
        "GIGABITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabits"
            }
        },
        "TERABITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits"

    }
        },
        "PERCENT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Percent"
            }
        },
        "BYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bytes/Second"
            }
        },
        "KILOBYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes/Second"
            }
        },
        "MEGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes/Second"
            }
        },
        "GIGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Gigabytes/Second"
            }
        },
        "TERABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
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"smithy.api#enumValue": "Terabytes/Second"
}
},
"BITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits/Second"
}
},
"KILOBITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits/Second"
}
},
"MEGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue":
"Megabits/Second"
}
},
"GIGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits/Second"
}
},
"TERABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits/Second"
}
},
"COUNT_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count/Second"
}
}
}
},
"com.amazonaws.licensemanager#EntitlementList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Entitlement"
}
},

"com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The entitlement is not allowed. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#EntitlementUnit": {
"type": "enum",
"members": {
"COUNT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count"
}
},
"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"SECONDS":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Seconds"
}
},
"MICROSECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Microseconds"
}
},
"MILLISECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Milliseconds"
}
},

"BYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes"
}
},
"KILOBYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes"
}
},
"MEGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes"
}
},
"GIGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes"
}
},
"TERABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}

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            },
            "GIGABITS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Gigabits"
                }
            },
            "TERABITS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Terabits"
                }
            },
            "PERCENT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Percent"
                }
            },
            "BYTES_PER_SECOND": {
                "target":
"smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Bytes/Second"
                }
            },
            "KILOBYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Kilobytes/Second"
                }
            },
            "MEGABYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Megabytes/Second"
                }
            },
            "GIGABYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Gigabytes/Second"
                }
            },
            "TERABYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
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"smithy.api#enumValue": "Terabytes/Second"
}
},
"BITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits/Second"
}
},
"KILOBITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits/Second"
}
},
"MEGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits/Second"
}
},
"GIGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits/Second"
}
},

"TERABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits/Second"
}
},
"COUNT_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count/Second"
}
}
}
},
"com.amazonaws.licensemanager#EntitlementUsage": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Entitlement usage name. ",
"smithy.api#required": {}
}
},
"ConsumedValue": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Resource usage consumed. ",
"smithy.api#required": {}
}
},
"MaxCount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Maximum entitlement usage count. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {
"smithy.api#documentation": " Entitlement usage unit. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Usage associated with an entitlement resource. "
}
},
"com.amazonaws.licensemanager#EntitlementUsageList":
{
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#EntitlementUsage"
}
},
"com.amazonaws.licensemanager#ExtendLicenseConsumption": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"

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            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}

      }
            },
            "DryRun": {
                "target": "com.amazonaws.licensemanager#Boolean",
                "traits": {
                    "smithy.api#default": false,
                    "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
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"com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},

"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license consumption expires. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#FailedDependencyException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
},
"ErrorCode": {
"target": "com.amazonaws.licensemanager#String"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FailedDependency",
"httpResponseCode": 424
},
"smithy.api#documentation":
" A dependency required to run the API is missing. ",
"smithy.api#error": "client",
"smithy.api#httpError": 424
}
},
"com.amazonaws.licensemanager#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#FilterName",
"traits": {

"smithy.api#documentation": " Name of the filter. Filter names are case-sensitive. "
}
},
"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " The value of the filter, which is case-sensitive. You can only specify one value for the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter name and value pair that is used to return more specific results from a\n describe operation. Filters can be used to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FilterLimitExceeded",
"httpResponseCode": 400
},
"smithy.api#documentation": " The request uses too many filters or too many filter values. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter"
}
},
"com.amazonaws.licensemanager#FilterName": {
"type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
"type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
"type": "list",

"member": {
"target": "com.amazonaws.licensemanager#FilterValue",
"traits": {
"smithy.api#xmlName": "item"
}
}
},
"com.amazonaws.licensemanager#Filters": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter",
"traits": {
"smithy.api#xmlName": "item"
}
}
},
"com.amazonaws.licensemanager#GetAccessToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access tokens\n are valid for one hour. "
}
},
"com.amazonaws.licensemanager#GetAccessTokenRequest": {

"type": "structure",
"members": {
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token, encoded as a JWT token. ",
"smithy.api#required": {}
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Token properties to validate against those present in the JWT token. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetAccessTokenResponse": {
"type": "structure",
"members": {
"AccessToken": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Temporary access token. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

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        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"

    },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
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"Grant": {
"target": "com.amazonaws.licensemanager#Grant",
"traits": {
"smithy.api#documentation": " Grant details. "
}
}
},
"traits": {

"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"

},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
"type": "operation",
"input": {

"target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license configuration. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
}
},
"traits":
{
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationId": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Unique ID for the license configuration. "
}
},
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension for which the licenses are counted. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",

"traits": {
"smithy.api#documentation": " Number of available licenses. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Sets the number of available licenses as a hard limit. "
}
},

"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses assigned to resources. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License configuration status. "
}

},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}

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            },
            "DisassociateWhenNotFound": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>When
true, disassociates a resource when software is uninstalled.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConversionTask": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {

 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
```

"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted to. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",

"traits": {
"smithy.api#documentation": " Status of the license type conversion task. "
}
},

"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was started . "
}
},
"LicenseConversionTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Amount of time to complete the license type conversion. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was completed. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},

```
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

          },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
                    "smithy.api#required":
 {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {
            "ReportGenerator": {
                "target": "com.amazonaws.licensemanager#ReportGenerator",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            }
        },
```

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseResponse": {
"type": "structure",
"members": {
"License": {
"target": "com.amazonaws.licensemanager#License",
"traits": {
"smithy.api#documentation": " License details. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},

"com.amazonaws.licensemanager#GetLicenseUsage": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"

```
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {

  "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
        }
      },
      "com.amazonaws.licensemanager#GetLicenseUsageRequest": {
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#GetLicenseUsageResponse": {
        "type": "structure",
        "members": {
          "LicenseUsage": {
            "target":
"com.amazonaws.licensemanager#LicenseUsage",
            "traits": {
```

"smithy.api#documentation": " License usage details. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets the License Manager settings for the current Region. "
}
},
"com.amazonaws.licensemanager#GetServiceSettingsRequest": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Regional S3 bucket path for storing reports, license trail event data,

discovery data,\n and so on. "

}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " SNS topic configured to receive notifications from License Manager. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Indicates whether Organizations is integrated with License Manager for\n cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether cross-account discovery is enabled. "
}

},
"LicenseManagerResourceShareArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource share. The License Manager management account \n provides member accounts with access to this share. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#Grant": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"ParentArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Parent ARN. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. ",
"smithy.api#required": {}
}
},
"GranteePrincipalArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {

"smithy.api#documentation": " The grantee principal ARN. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "

```
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Granted operations.</p>",
                    "smithy.api#required": {}
                }
            },
            "Options": {
                "target": "com.amazonaws.licensemanager#Options",
                "traits": {
                    "smithy.api#documentation": "<p>The options specified for the grant.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
"<p>Describes a grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#GrantList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Grant"
        }
    },
    "com.amazonaws.licensemanager#GrantStatus": {
        "type": "enum",
        "members": {
            "PENDING_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_WORKFLOW"
                }
            },
            "PENDING_ACCEPT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_ACCEPT"
                }
```

```
            },
            "REJECTED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "REJECTED"

            }
            },
            "ACTIVE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "ACTIVE"
                }
            },
            "FAILED_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "FAILED_WORKFLOW"
                }
            },
            "DELETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DELETED"
                }
            },
            "PENDING_DELETE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_DELETE"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                "traits":
{
                    "smithy.api#enumValue": "DISABLED"
                }
            },
            "WORKFLOW_COMPLETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "WORKFLOW_COMPLETED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GrantedLicense": {
```

"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. "
}

},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " Granted license issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the granted license. "

}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " Granted license status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",

"traits": {
"smithy.api#documentation": " Date and time range during which the granted license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Granted license beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Granted license metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Creation time of the granted license. "

}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Version of the granted license. "
}
},
"ReceivedMetadata": {
"target": "com.amazonaws.licensemanager#ReceivedMetadata",
"traits": {
"smithy.api#documentation": " Granted license received metadata. "
}
}

```
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes a license that is granted to a grantee.</p>"
        }
    },
    "com.amazonaws.licensemanager#GrantedLicenseList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#GrantedLicense"
        }
    },
    "com.amazonaws.licensemanager#ISO8601DateTime":
{
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            },
            "smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-
1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[ 0-3]|[0-1][0-9]):[0-5][0-9])+$"
        }
    },
    "com.amazonaws.licensemanager#Integer": {
        "type": "integer"
    },
    "com.amazonaws.licensemanager#InvalidParameterValueException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidParameterValueProvided",
                "httpResponseCode": 400
            },
            "smithy.api#documentation":
"<p>One or more parameter values are not valid.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InvalidResourceStateException": {
        "type": "structure",
        "members": {
            "Message": {
```

"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidResourceState",
"httpResponseCode": 400
},
"smithy.api#documentation": " License Manager cannot allocate a license to a resource because of its state. \n For example, you cannot allocate a license to an instance in the process of shutting\n down. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},

"com.amazonaws.licensemanager#InventoryFilter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the filter. ",
"smithy.api#required": {}
}
},
"Condition": {
"target": "com.amazonaws.licensemanager#InventoryFilterCondition",
"traits": {
"smithy.api#documentation": " Condition of the filter. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Value of the filter. "
}
}

},
"traits": {
"smithy.api#documentation": " An inventory filter. "
}
},
"com.amazonaws.licensemanager#InventoryFilterCondition": {
"type": "enum",
"members": {

"EQUALS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "EQUALS"
}
},
"NOT_EQUALS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "NOT_EQUALS"
}
},
"BEGINS_WITH": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "BEGINS_WITH"
}
},
"CONTAINS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CONTAINS"
}
}
}
},
"com.amazonaws.licensemanager#InventoryFilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#InventoryFilter"
}
},
"com.amazonaws.licensemanager#Issuer": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. ",
"smithy.api#required": {}
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage

of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about the issuer of a license. "
}
},
"com.amazonaws.licensemanager#IssuerDetails": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. "
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer key fingerprint. "
}
}
},
"traits": {
"smithy.api#documentation": " Details associated with the issuer of a license. "
}
},
"com.amazonaws.licensemanager#License": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " License name. "
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " License issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Home Region of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},

"Entitlements": {

"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " License metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License
creation time. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#documentation": " Software license that is managed in License Manager. "
}
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
"type": "structure",
"members": {
"LicenseConfigurationId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Unique ID of the license configuration. "
}
},
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension to use to track the license inventory. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Number of available licenses as a hard limit. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
},
"ConsumedLicenses": {

"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the license configuration. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the license configuration's owner. "

}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for licenses consumed by various resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {

"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n

Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource consuming licenses. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " Time when the license configuration was associated with the resource. "
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an association with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
"type": "list",

"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
}
},
"com.amazonaws.licensemanager#LicenseConfigurationStatus": {
"type": "enum",
"members":
{
"AVAILABLE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "AVAILABLE"
}
},
"DISABLED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DISABLED"
}
}
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsage": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits":
{
"smithy.api#documentation": " Type of resource. "
}
},
"ResourceStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "

```
            }
        },
        "AssociationTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time when the license configuration was initially associated with
the resource.</p>"
            }
        },

    "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about the usage of a resource associated with a license
configuration.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
    }
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#LicenseConfiguration"
    }
},
"com.amazonaws.licensemanager#LicenseConversionContext": {

  "type": "structure",
    "members": {
        "UsageOperation": {
            "target": "com.amazonaws.licensemanager#UsageOperation",
            "traits": {
                "smithy.api#documentation": "<p>The Usage operation value that corresponds to the license type you
are converting your resource from.  For more information about which platforms correspond to which usage
operation values see <a href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-
fields.html#billing-info\">Sample data: usage operation by platform\n      </a>\n         </p>"
            }
        }
    },
```

"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTask": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {

"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource associated with the license type\n conversion task. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted to. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " The status of the conversion task. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},

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            "StartTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation":
 "<p>The time the conversion task was started at.</p>"
                }
            },
            "LicenseConversionTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>The time the usage operation value of the resource was
changed.</p>"
                }
            },
            "EndTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTaskId": {
        "type": "string",
        "traits": {

          "smithy.api#length": {
                "min": 0,
                "max": 50
            },
            "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
        "type": "enum",
        "members": {
            "IN_PROGRESS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "IN_PROGRESS"
                }
            },
            "SUCCEEDED": {
                "target": "smithy.api#Unit",
                "traits": {
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"smithy.api#enumValue": "SUCCEEDED"
}
},
"FAILED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "FAILED"
}
}
}
},
"com.amazonaws.licensemanager#LicenseConversionTasks":
{
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConversionTask"
}
},
"com.amazonaws.licensemanager#LicenseCountingType": {
"type": "enum",
"members": {
"VCPU": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "vCPU"
}
},
"INSTANCE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Instance"
}
},
"CORE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Core"
}
},
"SOCKET": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Socket"
}
}
}
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {

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    "type": "enum",
    "members": {
        "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {

    "type": "structure",
    "members": {
        "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
        },
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Resource type.</p>"
            }
        },
        "ErrorMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Error message.</p>"
            }
        },
        "FailureTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
```

"smithy.api#documentation": " Failure time. "
}
},
"OperationName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the operation. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource. "
}
},
"OperationRequestedBy": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The requester is \"License Manager Automated Discovery\". "
}
},
"MetadataList": {

"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Reserved. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the failure of a license operation. "
}
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailure"
}
},
"com.amazonaws.licensemanager#LicenseSpecification": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",

"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseSpecification"
}
},
"com.amazonaws.licensemanager#LicenseStatus": {
"type": "enum",
"members": {
"AVAILABLE": {
"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "AVAILABLE"
}
},
"PENDING_AVAILABLE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_AVAILABLE"
}
},
"DEACTIVATED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DEACTIVATED"
}
},
"SUSPENDED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SUSPENDED"

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            }
        },
        "EXPIRED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EXPIRED"
            }
        },

    "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseUsage": {
    "type": "structure",
    "members": {
        "EntitlementUsages": {
            "target": "com.amazonaws.licensemanager#EntitlementUsageList",
            "traits": {
                "smithy.api#documentation": "<p>License entitlement usages.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes the entitlement usage associated with a license.</p>"

    }
},
"com.amazonaws.licensemanager#LicenseUsageException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "LicenseUsageFailure",
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"httpResponseCode": 412
},
"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the resource associations for the specified license configuration. \n Resource associations need not consume licenses from a license configuration. \n For example, an AMI or a stopped instance might not consume a license (depending on \n the license rules). "
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results
to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationAssociations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license
configuration. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",

"input": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants distributed for the specified license. "
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>LicenseArn</code>\n \n

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</li>\n <li>\n <p>\n <code>GrantStatus</code>\n </p>\n </li>\n
<li>\n <p>\n <code>GranteePrincipalARN</code>\n </p>\n </li>\n
<li>\n <p>\n <code>ProductSKU</code>\n </p>\n </li>\n <li>\n
<p>\n <code>LicenseIssuerName</code>\n
</p>\n </li>\n </ul>"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": "<p>Token for the next set of results.</p>"
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",

"traits": {
"smithy.api#documentation": "<p>Distributed grant details.</p>"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": "<p>Token for the next set of results.</p>"
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
"type": "operation",
"input": {
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"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configuration operations that failed. "
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name of the license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}

```
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse":
{
        "type": "structure",
        "members": {
            "LicenseOperationFailureList": {
                "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
                "traits": {
                    "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurations": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },

    "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations
 for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next
 set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n                Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n                Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n                <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n                Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n
```

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</li>\n <li>\n <p>\n <code>usagelimitExceeded</code> - A Boolean value that indicates whether the available licenses have been exceeded. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n </li>\n </ul>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
        "type": "structure",
        "members": {
          "LicenseConfigurations": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurations",
            "traits": {
              "smithy.api#documentation": "<p>Information about the license configurations.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",

         "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseConversionTasks": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
        "type": "structure",
        "members": {
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {

    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>\n        Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n      </p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTasks": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configuration tasks for your
```

account. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target":
"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the report generators for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest":
{
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:
</p>\n        <ul>\n            <li>\n                <p>\n                <code>LicenseConfigurationArn</code>\n
</p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits":
{
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
            "ReportGenerators": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorList",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

"smithy.api#documentation": " Token for the next set of results. "
}

}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Describes the license configurations for the specified resource. "
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a resource that has an associated license configuration. ",
"smithy.api#required": {}
}

```
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {

    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {
        "LicenseSpecifications": {
            "target": "com.amazonaws.licensemanager#LicenseSpecifications",
            "traits": {
                "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
            }
        },
        "NextToken": {
             "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
```

```
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
```

```
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
              "smithy.api#documentation": "<p>License details.</p>"
            }
          },

"NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenses": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicensesRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicensesResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
           },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
```

```
        "traits": {
            "smithy.api#documentation": "<p>Lists the licenses for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicensesRequest": {
        "type": "structure",
        "members": {
            "LicenseArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
                }
            },

     "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n              <p>\n                <code>Beneficiary</code>\n              </p>\n
      </li>\n           <li>\n              <p>\n                <code>ProductSKU</code>\n              </p>\n           </li>\n
   <li>\n              <p>\n                <code>Fingerprint</code>\n              </p>\n           </li>\n           <li>\n
<p>\n                <code>Status</code>\n              </p>\n           </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token
 for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicensesResponse": {
        "type": "structure",
        "members": {
            "Licenses": {
                "target": "com.amazonaws.licensemanager#LicenseList",
                "traits": {
```

"smithy.api#documentation": " License details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists grants that are received. Received grants are grants created while

specifying the\n recipient as this Amazon Web Services account, your organization, or an organizational unit\n (OU) to which this member account belongs. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target":
"com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants received for all accounts in the organization. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the received license. ",
"smithy.api#required": {}

```
            }
        },
        "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
                "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n
    <ul>\n        <li>\n        <p>\n        <code>ParentArn</code>\n        </p>\n        </li>\n
<li>\n        <p>\n        <code>GranteePrincipalArn</code>\n        </p>\n        </li>\n        </ul>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse":
{
    "type": "structure",
    "members": {
        "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
            "traits": {
                "smithy.api#documentation": "<p>Lists the grants the organization has received.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
```

```
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
      "type": "structure",
      "members": {
        "GrantArns": {
          "target": "com.amazonaws.licensemanager#ArnList",
           "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
          }
        },
        "Filters": {
          "target": "com.amazonaws.licensemanager#FilterList",
          "traits": {
            "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n            </p>\n
      </li>\n          <li>\n            <p>\n              <code>LicenseIssuerName</code>\n            </p>\n
</li>\n          <li>\n            <p>\n              <code>LicenseArn</code>\n            </p>\n          </li>\n
<li>\n            <p>\n              <code>GrantStatus</code>\n            </p>\n          </li>\n          <li>\n
<p>\n
      <code>GranterAccountId</code>\n            </p>\n          </li>\n        </ul>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#MaxSize100",
          "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
      "type": "structure",
      "members": {
        "Grants": {
          "target": "com.amazonaws.licensemanager#GrantList",
           "traits": {
            "smithy.api#documentation": "<p>Received grant details.</p>"
          }
        },
```

```
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
         },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists received licenses.</p>"
    }
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
```

```
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {

    "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the licenses received for all accounts in the organization.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>Beneficiary</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                <code>ProductSKU</code>\n
            </p>\n            </li>\n        </ul>"
                }
            },
```

```
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
    "type": "structure",
    "members": {
        "Licenses": {
            "target": "com.amazonaws.licensemanager#GrantedLicenseList",
             "traits": {
                "smithy.api#documentation": "<p>Lists the licenses the organization has received.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
    "type": "structure",
    "members": {
        "LicenseArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
            }
        },
```

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>IssuerName</code>\n \n \n \n \n <code>Beneficiary</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#GrantedLicenseList",
"traits": {
"smithy.api#documentation": " Received license details. "
}
},

"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}

```
},
"com.amazonaws.licensemanager#ListResourceInventory": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#FailedDependencyException"
        },
        {
            "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
    }
},
"com.amazonaws.licensemanager#ListResourceInventoryRequest": {
    "type": "structure",
    "members": {
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#InventoryFilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n
\n \n \n <code>application_name</code> - The name of the application. \n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n
\n \n \n <code>license_included</code> - The type of license included. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n Possible values are <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n
\n <code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n \n \n \n
<code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n
<code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account). \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListResourceInventoryResponse": {
"type": "structure",
"members": {
"ResourceInventoryList": {
"target": "com.amazonaws.licensemanager#ResourceInventoryList",
"traits": {
"smithy.api#documentation": " Information about the resources. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {

"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListTagsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the tags for the specified license configuration. "
}
},
"com.amazonaws.licensemanager#ListTagsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",

"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}

```
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the tags.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors":
[
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
```

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            "TokenIds": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {

                  "smithy.api#documentation": "<p>Token IDs.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
    <ul>\n            <li>\n              <p>\n                <code>LicenseArns</code>\n              </p>\n            </li>\n
</ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation":
 "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokensResponse": {
        "type": "structure",
        "members": {
            "Tokens": {
                "target": "com.amazonaws.licensemanager#TokenList",
                "traits": {
                    "smithy.api#documentation": "<p>Received token details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
```

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        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
             {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying
license\n        consumption details by resource at a selected point in time. Use this action to audit the\n        current
license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
```

"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>resourceArn</code> - The ARN of the license configuration resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceAccount</code> - The ID of the account that owns the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
"type": "structure",
"members": {

"LicenseConfigurationUsageList": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#Location": {
"type": "string"
},
"com.amazonaws.licensemanager#Long": {
"type": "long"
},
"com.amazonaws.licensemanager#ManagedResourceSummary": {
"type": "structure",
"members": {
"ResourceType":
{
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of resource associated with a license. "
}
},
"AssociationCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of resources associated with licenses. "
}
}
},
"traits": {
"smithy.api#documentation": " Summary information about a managed resource. "
}
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummary"
}
},
"com.amazonaws.licensemanager#MaxSize100": {

"type": "integer",
"traits": {
"smithy.api#range": {
"min": 1,
"max": 100

```
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The key name.</p>"
            }
        },

"Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The value.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes key/value pairs.</p>"
    }
},
"com.amazonaws.licensemanager#MetadataList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Metadata"
    }
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
    "type": "structure",
    "members": {
```

"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#Options": {
"type": "structure",
"members": {
"ActivationOverrideBehavior": {
"target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
"traits": {
"smithy.api#documentation": " An activation option for your grant that determines the behavior of activating a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter. \n \n \n As a license administrator, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant. \n \n \n As a grantor, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your organization. \n \n \n As a grantee, if the grantor creating the distributed grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n are activating the grant. \n \n \n <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n Use this value to activate a grant without replacing any member accounts\n active grants for the same product. \n </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n Use this value to activate a grant and disable other active grants in any\n member accounts
for the same product. This action will also replace their\n previously activated grants with this activated grant. \n </dd>\n </dl>"
}
}
},
"traits": {
"smithy.api#documentation": " The options you can specify when you create a new version of a grant, such as activation\n override behavior. For more information, see Granted licenses in License Manager in the License Manager User Guide. "
}
},
"com.amazonaws.licensemanager#OrganizationConfiguration": {
"type": "structure",
"members": {
"EnableIntegration": {
"target": "com.amazonaws.licensemanager#Boolean",

"traits": {
"smithy.api#default": false,
"smithy.api#documentation":
" Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Resource type. The
possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a
<code>ProductInformationFilterComparator</code> which is a logical operator, a
<code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a
<code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values
for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for
<code>ProductInformationFilterComparator</code>. \n The following filters and are supported when
the resource type \n is <code>SSM_MANAGED</code>: \n
\n \n \n <code>Application Name</code> - The name of the
application.\n Logical operator is <code>EQUALS</code>. \n \n \n
\n <code>Application Publisher</code> - The publisher of the application.\n Logical

operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n Logical operator is <code>EQUALS</code>. \n
\n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n <code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n
\n ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information for a license configuration. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
"type": "structure",
"members": {
"ProductInformationFilterName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Filter name. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterValue": {
"target": "com.amazonaws.licensemanager#StringList",

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        "traits": {
            "smithy.api#documentation": "<p>Filter value.</p>"
        }
      },
      "ProductInformationFilterComparator": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Logical operator.</p>",
            "smithy.api#required": {}
        }
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>Describes product information filters.</p>"
    }
  },
  "com.amazonaws.licensemanager#ProductInformationFilterList": {
    "type": "list",
    "member": {
      "target": "com.amazonaws.licensemanager#ProductInformationFilter"
    }
  },
  "com.amazonaws.licensemanager#ProductInformationList": {
    "type": "list",
    "member": {
      "target": "com.amazonaws.licensemanager#ProductInformation"
     }
  },
  "com.amazonaws.licensemanager#ProvisionalConfiguration": {
    "type": "structure",
    "members": {
      "MaxTimeToLiveInMinutes": {
        "target": "com.amazonaws.licensemanager#BoxInteger",
        "traits": {
            "smithy.api#documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>",
            "smithy.api#required": {}
        }
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
    }
  },
  "com.amazonaws.licensemanager#RateLimitExceededException": {
    "type": "structure",
    "members": {
      "Message": {
        "target": "com.amazonaws.licensemanager#Message"
```

```
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "RateLimitExceeded",
                "httpResponseCode": 429
            },
            "smithy.api#documentation": "<p>Too many requests have been submitted. Try again after a brief
wait.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 429
        }
    },
    "com.amazonaws.licensemanager#ReceivedMetadata": {
        "type": "structure",
        "members": {
            "ReceivedStatus": {
                "target": "com.amazonaws.licensemanager#ReceivedStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Received status.</p>"
                }
            },
            "ReceivedStatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>Received
status reason.</p>"
                }
            },
            "AllowedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed operations.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Metadata associated with received licenses and grants.</p>"
        }
    },
    "com.amazonaws.licensemanager#ReceivedStatus": {
        "type": "enum",
        "members": {
            "PENDING_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_WORKFLOW"
                }
```

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            },
            "PENDING_ACCEPT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue":
"PENDING_ACCEPT"
                }
            },
            "REJECTED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "REJECTED"
                }
            },
            "ACTIVE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "ACTIVE"
                }
            },
            "FAILED_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "FAILED_WORKFLOW"
                }
            },
            "DELETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DELETED"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                 "traits": {
                    "smithy.api#enumValue": "DISABLED"
                }
            },
            "WORKFLOW_COMPLETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "WORKFLOW_COMPLETED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#RedirectException": {
        "type": "structure",
```

"members": {
"Location": {
"target": "com.amazonaws.licensemanager#Location",
"traits": {
"smithy.api#httpHeader": "Location"
}
},
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " This is not the correct Region for the resource. Try again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 308
}
},
"com.amazonaws.licensemanager#RejectGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#RejectGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#RejectGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}

}
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#RenewType":
```

{
"type": "enum",
"members": {
"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"WEEKLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Weekly"
}
},
"MONTHLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Monthly"
}
}
}
},
"com.amazonaws.licensemanager#ReportContext": {
"type": "structure",
"members": {
"licenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details of the license configuration that this generator reports on. "
}
},
"com.amazonaws.licensemanager#ReportFrequency": {
"type": "structure",
"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "

```
                }
            },
            "period": {
                "target": "com.amazonaws.licensemanager#ReportFrequencyType",

                "traits": {
                    "smithy.api#documentation": "<p>Time period between each report. The period can be daily, weekly,
or monthly.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
        }
    },
    "com.amazonaws.licensemanager#ReportFrequencyType": {
        "type": "enum",
        "members": {
            "DAY": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DAY"
                }
            },
            "WEEK": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "WEEK"
                }
            },
            "MONTH": {
                "target": "smithy.api#Unit",
                "traits":
{
                    "smithy.api#enumValue": "MONTH"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ReportGenerator": {
        "type": "structure",
        "members": {
            "ReportGeneratorName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>"
                }
            },
```

"ReportType": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports that are generated. "
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " License configuration type for this generator. "
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. "
}
},
"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}
},
"LastRunFailureReason": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Failure message for the last report generation attempt. "
}
},
"LastReportGenerationTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the last report was generated at. "
}
},
"ReportCreatorAccount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Web Services account ID used to create the report

generator. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the report was created. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags associated with the report generator. "
}

}
},
"traits": {
"smithy.api#documentation": " Describe the details of a report generator. "
}
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportGenerator"
}
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
}

```
        }
    },
    "com.amazonaws.licensemanager#ReportType": {
        "type": "enum",
        "members": {
            "LICENSE_CONFIGURATION_SUMMARY_REPORT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "LicenseConfigurationSummaryReport"
                }

    },
            "LICENSE_CONFIGURATION_USAGE_REPORT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "LicenseConfigurationUsageReport"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ReportTypeList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ReportType"
        }
    },
    "com.amazonaws.licensemanager#ResourceInventory": {
        "type": "structure",
        "members": {
            "ResourceId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits":
{
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
```

"Platform": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Platform of the resource. "
}
},
"PlatformVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Platform version of the resource in the inventory. "
}
},
"ResourceOwningAccountId":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a resource. "
}
},
"com.amazonaws.licensemanager#ResourceInventoryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ResourceInventory"
}
},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ResourceLimitExceeded",

"httpResponseCode": 400
},
"smithy.api#documentation": " Your resource limits have been exceeded. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},

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"com.amazonaws.licensemanager#ResourceNotFoundException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "InvalidResource.NotFound",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The resource cannot be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceType": {
    "type": "enum",
     "members": {
        "EC2_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_INSTANCE"
            }
        },
        "EC2_HOST": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_HOST"
            }
        },
        "EC2_AMI": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_AMI"
            }
        },
        "RDS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "RDS"
            }
        },
        "SYSTEMS_MANAGER_MANAGED_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
```

"smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
}
}
}
},
"com.amazonaws.licensemanager#S3Location": {
"type": "structure",
"members": {
"bucket": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the S3 bucket reports are published to. "
}
},
"keyPrefix": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Prefix of the S3 bucket reports are published to. "
}
}
},
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InternalError",
"httpResponseCode": 500
},
"smithy.api#documentation": " The server experienced an internal error. Try again. ",
"smithy.api#error": "server",
"smithy.api#httpError": 500
}
},
"com.amazonaws.licensemanager#SignedToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 4096

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            }
        }
    },
    "com.amazonaws.licensemanager#StatusReasonMessage": {
        "type": "string",
        "traits":
{
            "smithy.api#length": {
                "min": 0,
                "max": 400
            },
            "smithy.api#pattern": "^[\\s\\S]+$"
        }
    },
    "com.amazonaws.licensemanager#String": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#Tag": {
        "type": "structure",
        "members": {
            "Key": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag key.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Tag value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
```

```
        }
    },
    "com.amazonaws.licensemanager#TagList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Tag"
        }
    },
    "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
            {
                "target":
"com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits":
{
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
```

```
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>One or more tags.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
            "TokenType": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>"
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "ExpirationTime": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Token expiration time, in ISO8601-UTC
```

format. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller. "
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the roles included in the token. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. "
}
}
},
"traits": {

"smithy.api#documentation": " Describes a token. "
}
},
"com.amazonaws.licensemanager#TokenList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#TokenData"
}
},
"com.amazonaws.licensemanager#TokenString": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 4096
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#TokenType": {
"type": "enum",
"members": {

"REFRESH_TOKEN": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REFRESH_TOKEN"
}
}
}
},
"com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException":
{
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The digital signature method is unsupported. Try your request
again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#UntagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UntagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],

"traits": {
"smithy.api#documentation": " Removes the specified tags from the specified license configuration. "
}
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",
"traits": {
"smithy.api#documentation": " Keys identifying the tags to remove. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

```
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseConfigurationStatus": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
                "traits": {
                    "smithy.api#documentation": "<p>New status of the license configuration.</p>"
                }
            },
            "LicenseRules": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {

    "smithy.api#documentation": "<p>New license rule. The only rule that you can add after you create a license\n
    configuration is licenseAffinityToHost.</p>"
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
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"smithy.api#documentation": " New number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}

```
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates a report generator.</p>\n        <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to
```

update. ",
"smithy.api#required": {}
}
},
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation":
" Type of reports to generate. The following report types are supported: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " The report context. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits":
{
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Description of the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},

{
"target": "com.amazonaws.licensemanager#InvalidResourceStateException"
},
{
"target": "com.amazonaws.licensemanager#LicenseUsageException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],

"traits": {
"smithy.api#documentation": " Adds or removes the specified license configurations for the specified Amazon Web Services resource. \n You can update the license specifications of AMIs, instances, and hosts.\n You cannot update the license specifications for launch templates and CloudFormation templates, \n as they send license configurations to the operation that creates the resource. "
}
},

"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon Web Services resource. ",
"smithy.api#required": {}
}
},
"AddLicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " ARNs of the license configurations to add. "
}
},
"RemoveLicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " ARNs of the license configurations to remove. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where the License
 Manager information is stored.</p>"
                }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Enables integration with Organizations for cross-account discovery.</p>"
```

```
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Activates cross-account discovery.</p>"

        }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#UsageOperation": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            }
        }
    },
    "com.amazonaws.licensemanager#ValidationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",

    "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    }
  }
}
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version
 of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {
```

```
 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack,
 options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if
 err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
```

```
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
```

1.3999 codegangsta-cli 1.22.12

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1.4000 container-device-interface-specs-go 0.8.0

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1.4001 cni 1.2.2

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1.4013 x-net 0.34.0

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1.4014 zfs 1.1.0

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1.4015 sys-symlink 0.3.0

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1.4017 go-metrics 0.4.0

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/opt/cola/permits/2309471389_1736428357.9720845/0/akka-discovery-2-13-2-6-21-tar-gz/akka-discovery_2.13/akka-discovery-2-13-2-6-21-javadoc-jar/lib/MaterialIcons-Regular.eot: binary file matches
/opt/cola/permits/2309471389_1736428357.9720845/0/akka-discovery-2-13-2-6-21-tar-gz/akka-discovery_2.13/akka-discovery-2-13-2-6-21-javadoc-jar/lib/open-sans-v13-latin-400i.ttf: binary file matches
/opt/cola/permits/2309471389_1736428357.9720845/0/akka-discovery-2-13-2-6-21-tar-gz/akka-discovery_2.13/akka-discovery-2-13-2-6-21-javadoc-jar/lib/open-sans-v13-latin-700.eot: binary file matches
/opt/cola/permits/2309471389_1736428357.9720845/0/akka-discovery-2-13-2-6-21-tar-gz/akka-discovery_2.13/akka-discovery-2-13-2-6-21-javadoc-jar/lib/open-sans-v13-latin-700.ttf: binary file matches
/opt/cola/permits/2309471389_1736428357.9720845/0/akka-discovery-2-13-2-6-21-tar-gz/akka-discovery_2.13/akka-discovery-2-13-2-6-21-javadoc-jar/lib/open-sans-v13-latin-700i.eot:
binary file matches
/opt/cola/permits/2309471389_1736428357.9720845/0/akka-discovery-2-13-2-6-21-tar-gz/akka-discovery_2.13/akka-discovery-2-13-2-6-21-javadoc-jar/lib/open-sans-v13-latin-700i.ttf: binary file matches

Found in path(s):
* /bin/grep
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Manifest-Version: 1.0
Automatic-Module-Name: akka.discovery
Bundle-Description: Akka is a toolkit for building highly concurrent,
distributed, and resilient message-driven applications for Java and S
cala.
Bundle-DocURL: https://doc.akka.io/api/akka/2.6.21
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html;descr
iption=Apache-2.0
Bundle-ManifestVersion: 2
Bundle-Name: akka-discovery
Bundle-SymbolicName: com.typesafe.akka.discovery

```
Bundle-Vendor: Lightbend Inc.
Bundle-Version: 2.6.21
Export-Package: akka.discovery;uses:="akka.actor,scala,scala.collectio
n,scala.collection.immutable,scala.collection.mutable,scala.concurren
t,scala.concurrent.duration,scala.math,scala.reflect,scala.runtime,sc
ala.util";version="2.6.21",akka.discovery.aggregate;uses:="akka.actor
,akka.discovery,akka.event,com.typesafe.config,scala,scala.collection
.immutable,scala.concurrent,scala.concurrent.duration,scala.reflect,s
 cala.runtime";version="2.6.21",akka.discovery.config;uses:="akka.acto
r,akka.discovery,com.typesafe.config,scala,scala.collection.immutable
,scala.concurrent,scala.concurrent.duration,scala.reflect";version="2
.6.21",akka.discovery.dns;uses:="akka.actor,akka.discovery,akka.io.dn
s,scala,scala.collection.immutable,scala.concurrent,scala.concurrent.
duration,scala.reflect,scala.runtime,scala.util";version="2.6.21"
Implementation-Title: akka-discovery
Implementation-URL: https://akka.io/
Implementation-Vendor-Id: com.typesafe.akka
Implementation-Vendor: Lightbend Inc.
Implementation-Version: 2.6.21
Import-Package: akka.actor;version="[2.6,2.7)",akka.discovery;version=
"[2.6,2.7)",akka.dispatch;version="[2.6,2.7)",akka.event;version="[2.
6,2.7)",akka.io;version="[2.6,2.7)",akka.io.dns;version="[2.6,2.7)",a
kka.io.dns.internal;version="[2.6,2.7)",akka.pattern;version="[2.6,2.
7)",akka.util;version="[2.6,2.7)",akka.util.ccompat;version="[2.6,2.7
)",com.typesafe.config;version="[1.4.0,1.5.0)",scala;version="[2.13,2
 .14)",scala.collection;version="[2.13,2.14)",scala.collection.convert
;version="[2.13,2.14)",scala.collection.immutable;version="[2.13,2.14
)",scala.collection.mutable;version="[2.13,2.14)",scala.concurrent;ve
rsion="[2.13,2.14)",scala.concurrent.duration;version="[2.13,2.14)",s
cala.math;version="[2.13,2.14)",scala.reflect;version="[2.13,2.14)",s
cala.runtime;version="[2.13,2.14)",scala.util;version="[2.13,2.14)",s
cala.util.control;version="[2.13,2.14)",scala.util.matching;version="
[2.13,2.14)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version>=1.8))
"
Specification-Title: akka-discovery
Specification-Vendor: Lightbend Inc.
Specification-Version: 2.6.21
Tool: Bnd-4.0.0.201805111645
```

Found in path(s):
* /opt/cola/permits/2309471389_1736428357.9720845/0/akka-discovery-2-13-2-6-21-tar-gz/akka-discovery_2.13/akka-discovery-2-13-2-6-21-jar/META-INF/MANIFEST.MF

1.4018 gziphandler 1.1.1

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1.4019 xmlquery 1.3.9

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1.4020 goleak 1.2.1

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1.4021 idna 14.0.0

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1.4023 xpath 1.2.0

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1.4025 codegangsta-cli 1.22.15

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1.4027 golang-genproto 0.0.0-20240227224415-6ceb2ff114de

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1.4028 genproto-googleapis-rpc 0.0.0-20240227224415-6ceb2ff114de

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1.4033 kubernetes-component-base 0.28.6

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core,gopkg.in/Knetic/govaluate.v3,MIT,"Copyright (c) 2014-2016 George Lester | abrander (panic-finding testing tool) | benpaxton (fix for missing type checks during literal elide process) | bgaifullin (lifting restriction on complex/struct types) | dpaolella (exposure of variables used in an expression) | iasci (ternary operator) | oxtoacart (parameter structures, deferred parameter retrieval) | prashantv (optimization of bools) | vjeantet (regex support) |

wmiller848 (bitwise operators) | xfennec (fix for dates being parsed in the current Location)"
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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

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```
---
name: Handle External Contributor PRs

on:
 # run in the context of the base branch, so that it still works in PR from forks
 pull_request_target:
   types: [opened, reopened]

jobs:
 external-contributor-prs:
   name: Handle Fork PRs
   runs-on: ubuntu-latest
   if: github.event.pull_request.head.repo.full_name != github.repository
   steps:
     - name: Checkout repository
       uses: actions/checkout@0ad4b8fadaa221de15dcec353f45205ec38ea70b # v4.1.4
       with:
         ref: main
         fetch-depth: 0
     - name: Setup python
       uses: actions/setup-python@39cd14951b08e74b54015e9e001cdefcf80e669f # v5.1.1
       with:
```

```
        python-version: 3.11
        cache: 'pip'
        cache-dependency-path: '**/requirements*.txt'
    - name: Install dependencies
      run: pip install -r requirements.txt -r tasks/requirements.txt
    - name: Set label on external contributor PRs
      run: |
        gh issue edit "$NUMBER"
        inv -e github.handle-community-pr
 --repo="$GH_REPO" --pr-id="$NUMBER" --labels="$LABELS"
      env:
        GH_TOKEN: ${{ secrets.GITHUB_TOKEN }}
        GITHUB_TOKEN: ${{ secrets.GITHUB_TOKEN }}
        SLACK_API_TOKEN: ${{ secrets.SLACK_DATADOG_AGENT_BOT_TOKEN }}
        GH_REPO: ${{ github.repository }}
        NUMBER: ${{ github.event.number }}
        # labels is a comma-separated list of tags
        LABELS: community
```

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1.4043 analysis 0.22.2

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1.4044 kubernetes-cri-api 0.27.1

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1.4045 protobuf-go 1.33.0

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1.4046 protobuf 1.5.4

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1.4047 aws-sdk-go-v2-service-internal-accept-encoding 1.10.4

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```
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package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil,
 err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err !=
```

```
nil {
 return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack);
err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
```

```
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
```

AWS SDK for Go

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```
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
```

```
  strategy:
    matrix:
      python-version: [3.9]

  steps:
    - name: Checkout target
      uses: actions/checkout@v2
      with:
        path: sdkbase
        ref: ${{ github.base_ref }}
    - name: Checkout this ref
      uses: actions/checkout@v2
      with:
        path: new-ref
        fetch-depth: 0
    - name: Get Diff
      run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
    - name: Get Target Files
      run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
       uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
```

```
import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return
 err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckInLicense",
 }
}
{
   "smithy": "2.0",
   "shapes": {
       "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
           "type": "integer"
       },
```

"com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
"type": "long"
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of name to filter by. "
}
},
"Values": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " One or more values for the name to filter by. "
}
},
"Operator": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
"traits": {
"smithy.api#documentation": " An operator for filtering results. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter object that is used to return more specific results from a describe operation.\n Filters can be used to match a set of resources by specific criteria. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
},
"output": {

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"

```
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the Linux subscriptions service settings.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/GetServiceSettings"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest":
{
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "LinuxSubscriptionsDiscovery": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
                "traits": {
                    "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
                }
            },
            "LinuxSubscriptionsDiscoverySettings": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
                "traits": {
                    "smithy.api#documentation": "<p>Lists the settings defined for Linux subscriptions discovery. The
settings include if\n      Organizations integration has been enabled, and
 which Regions data will be aggregated from.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
                }
            },
            "StatusMessage": {
```

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
"type": "structure",
"members": {
"AmiId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The AMI ID used to launch the instance. "
}
},
"InstanceID": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The instance ID of the resource. "
}
},
"InstanceType": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The instance type of the resource. "
}

},
"AccountID": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The account ID which owns the instance. "
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of the instance. "
}

```
            },
            "Region": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Region the instance is running in.</p>"
                }
            },
            "UsageOperation": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The usage operation of the instance. For more information, see For
 more information, see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-
subscriptions-usage-operation.html\">Usage\n        operation values</a> in the <i>License Manager User
Guide</i>.</p>"
                }
            },
            "ProductCode": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
                "traits": {
                    "smithy.api#documentation": "<p>The product code for the instance. For more information, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-
operation.html\">Usage\n        operation values</a> in the <i>License Manager User Guide</i> .</p>"
                }
            },
            "LastUpdatedTime": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The time in which the last discovery
 updated the instance details.</p>"
                }
            },
            "SubscriptionName": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the subscription being used by the instance.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details discovered information about a running instance using Linux
subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
        }
```

```
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
    "type": "structure",
    "members": {
        "message": {
            "target": "smithy.api#String"
         }
    },
    "traits": {
        "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
        "smithy.api#error": "server"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
    "type": "service",
    "version": "2018-05-10",
    "operations": [
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
        }
    ],

"traits": {
        "aws.api#service": {
            "sdkId": "License Manager Linux Subscriptions",
            "arnNamespace": "license-manager-linux-subscriptions",
            "cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
        },
        "aws.auth#sigv4": {
            "name": "license-manager-linux-subscriptions"
        },
        "aws.protocols#restJson1": {},
        "smithy.api#cors": {
            "additionalAllowedHeaders": [
                "*",
                "content-type",
                "x-amz-content-sha256",
                "x-amz-user-agent",
                "x-amzn-platform-id",
```

"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",

"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"
]
},
"smithy.api#documentation": " With License Manager, you can discover and track your commercial Linux subscriptions on running\n Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager Linux Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

"type": "Boolean"
},
"Endpoint": {

```
        "builtIn": "SDK::Endpoint",
        "required": false,
        "documentation": "Override the endpoint used to send this request",
        "type": "String"
    }
},
"rules": [
    {
        "conditions": [
            {
                "fn": "isSet",
                "argv": [
                    {
                        "ref": "Endpoint"
                    }
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {

            "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseFIPS"
                            },
                            true
                        ]
                    }
                ],
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
                "type": "error"
            },
            {
                "conditions": [],
                "type": "tree",
                "rules": [
                    {

              "conditions": [
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    {
                                        "ref": "UseDualStack"
```

```
                    },
                    true
                ]
            }
        ],
        "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
        "type": "error"
    },
    {
        "conditions": [],

 "endpoint": {
            "url": {
                "ref": "Endpoint"
            },
            "properties": {},
            "headers": {}
        },
        "type": "endpoint"
    }
  ]
 }
]
},
{
 "conditions": [],
 "type": "tree",
 "rules": [
  {
   "conditions": [
    {
     "fn": "isSet",

"argv": [
            {
                "ref": "Region"
            }
        ]
    }
   ],
   "type": "tree",
   "rules": [
    {
     "conditions": [
      {
       "fn": "aws.partition",
       "argv": [
        {
```

"ref": "Region"
}
],

"assign": "PartitionResult"
}
],
"type": "tree",
"rules": [
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
},
true
]
},

{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseDualStack"
},
true
]
}
],
"type": "tree",
"rules": [
{
"conditions": [
{

"fn": "booleanEquals",
"argv": [
true,
{
"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsFIPS"
]

```
}
                                                ]
                                            },
                                            {
                                                "fn": "booleanEquals",
                                                "argv": [
                                                    true,
                                                    {
                                                        "fn": "getAttr",
                                                        "argv": [
                                                            {
                                                                "ref": "PartitionResult"
                                                            },

                                                 "supportsDualStack"
                                                        ]
                                                    }
                                                ]
                                            }
                                        ],
                                        "type": "tree",
                                        "rules": [
                                            {
                                                "conditions": [],
                                                "type": "tree",
                                                "rules": [
                                                    {

                                    "conditions": [],
                                                        "endpoint": {
                                                            "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                                            "properties": {},
                                                            "headers": {}
                                                        },
                                                        "type": "endpoint"
                                                    }
                                                ]
                                            }
                                        ]

                                },
                                        {
                                        "conditions": [],
                                        "error": "FIPS and DualStack are enabled, but this partition does not support
one or both",
                                        "type": "error"
```

```
                    }
                ]
            },
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {

"ref": "UseFIPS"
                            },
                            true
                        ]
                    }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    true,

{
                                        "fn": "getAttr",
                                        "argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },
                                            "supportsFIPS"
                                        ]
                                    }
                                ]
                            }
                        ],
                        "type": "tree",

                "rules": [
                            {
                                "conditions": [],
                                "type": "tree",
                                "rules": [
                                    {
                                        "conditions": [],
                                        "endpoint": {
                                            "url": "https://license-manager-linux-subscriptions-
```

```
fips.{Region}.{PartitionResult#dnsSuffix}",
                                                "properties": {},
                                                "headers": {}

                                            },
                                            "type": "endpoint"
                                        }
                                    ]
                                }
                            ]
                        },
                        {
                            "conditions": [],
                            "error": "FIPS is enabled but this partition does not support FIPS",
                            "type": "error"
                        }
                    ]

    },
                    {
                        "conditions": [
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    {
                                        "ref": "UseDualStack"
                                    },
                                    true
                                ]
                            }
                        ],
                        "type": "tree",
                        "rules": [
                            {

                        "conditions": [
                                    {
                                        "fn": "booleanEquals",
                                        "argv": [
                                            true,
                                            {
                                                "fn": "getAttr",
                                                "argv": [
                                                    {
                                                        "ref": "PartitionResult"
                                                    },
                                                    "supportsDualStack"
```

```
                    ]
                }
            ]
        }
    ],
    "type": "tree",
    "rules": [
        {
            "conditions": [],
            "type": "tree",
            "rules": [
                {
                    "conditions": [],

                "endpoint": {
                        "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                        "properties": {},
                        "headers": {}
                    },
                    "type": "endpoint"
                }
            ]
        }
    ]
},

{
    "conditions": [],
    "error": "DualStack is enabled but this partition does not support DualStack",
    "type": "error"
}
]
},
{
    "conditions": [],
    "type": "tree",
    "rules": [
        {
            "conditions": [],
            "endpoint": {
                "url":
"https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                "properties": {},
                "headers": {}
            },
            "type": "endpoint"
        }
```

```
                    ]
                }
            ]
        }
    ]
},
{
    "conditions": [],
    "error": "Invalid Configuration: Missing Region",
    "type": "error"
}
]
}
]
},
"smithy.rules#endpointTests": {
    "testCases": [
        {
            "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
            "expect": {

"endpoint": {
                    "url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
                "endpoint": {
```

```
            "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
        }
    },
    "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
         "UseDualStack": true
    }
},
{
    "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
        }
    },
    "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": false
    }
},
{
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
    "expect": {
        "endpoint": {

    "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
        }
    },
    "params": {
        "Region": "cn-north-1",
        "UseFIPS": true,
        "UseDualStack": true
    }
},
{
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
        }
    },
    "params": {
        "Region": "cn-north-1",
        "UseFIPS": true,
         "UseDualStack": false
    }
```

```
        },
        {
          "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
            }
          },
          "params": {
            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint":
{
              "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
            }
          },
          "params": {
            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
            }
          },
          "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": true,
             "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
            }
          },
```

"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint":
{
"url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {

"url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{

"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {

"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",

"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",

"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,

"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",

"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,

"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true,
"Endpoint": "https://example.com"
}
},
{
"documentation": "Missing region",
"expect": {
"error": "Invalid Configuration: Missing Region"
}

```
            }
                ],
                "version": "1.0"
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "name": "Enabled",
                    "value": "Enabled",
                    "documentation": "Enabled LinuxSubscriptionsDiscovery"
                },
                {
                    "name": "Disabled",
                    "value": "Disabled",
                    "documentation": "Disabled LinuxSubscriptionsDiscovery"
                }
            ]
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
        "type": "structure",
        "members": {
            "SourceRegions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                 "traits": {
                    "smithy.api#documentation": "<p>The Regions in which to discover data for Linux
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "OrganizationIntegration": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
                "traits": {
                    "smithy.api#documentation": "<p>Details if you have enabled resource discovery across your
accounts in Organizations.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Lists the settings defined for discovering Linux subscriptions.</p>"
        }
    },
```

"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
"type":
"operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the running Amazon EC2 instances that were discovered with commercial Linux\n subscriptions. ",
"smithy.api#http": {

"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptionInstances"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Instances"
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n match, or don't match a certain Amazon Machine Image (AMI) ID. \n The valid names for this filter

are: \n \n \n \n <code>AmiID</code>\n \n
\n \n \n <code>InstanceID</code>\n \n \n
\n \n <code>AccountID</code>\n \n \n \n
\n <code>Status</code>\n \n \n \n \n
<code>Region</code>\n \n \n \n \n
<code>UsageOperation</code>\n \n \n \n
\n <code>ProductCode</code>\n \n \n \n \n
<code>InstanceType</code>\n \n \n \n The valid Operators for this
filter are: \n \n \n \n <code>contains</code>\n \n
\n \n \n <code>equals</code>\n \n \n \n
\n <code>Notequal</code>\n \n \n "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "

}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. ",
"smithy.api#length": {
"min": 1,
"max": 16384
}
}
}
},
"traits": {
"smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
"type": "structure",
"members": {
"Instances": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
"traits": {
"smithy.api#documentation":
" An array that contains instance objects. "
}
},
"NextToken": {
"target": "smithy.api#String",

```
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
         },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the Linux subscriptions that have been discovered. If you have linked your\n      organization, the returned results will include data aggregated across your accounts in\n Organizations.</p>",
        "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/subscription/ListLinuxSubscriptions"
        },
        "smithy.api#idempotent": {},
        "smithy.api#paginated": {
            "inputToken": "NextToken",
            "outputToken": "NextToken",
            "pageSize": "MaxResults",
            "items": "Subscriptions"
        }

    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
    "type": "structure",
    "members": {
        "Filters": {
```

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>Subscription</code> with an optional operator to see subscriptions that match,\n partially match, or don't match a certain subscription's name. \n The valid names for this filter are: \n \n \n \n <code>Subscription</code>\n \n \n \n The valid Operators for this filter are: \n \n \n \n <code>contains</code>\n \n \n \n \n <code>equals</code>\n \n \n \n \n <code>Notequal</code>\n \n \n "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. ",
"smithy.api#length": {

"min": 1,
"max": 16384
}
}
}
},
"traits": {
"smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
"type": "structure",
"members": {
"Subscriptions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
"traits": {
"smithy.api#documentation": " An array that contains subscription objects. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " Token for
the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "EQUAL",
"value": "Equal",
"documentation": "Equal operator"
},
{
"name": "NOT_EQUAL",
"value": "NotEqual",
"documentation": "Not equal operator"
},
{
"name": "CONTAINS",
"value": "Contains",
"documentation": "Contains operator"
}
],
"smithy.api#length": {
"min": 1,
"max": 20
}
}
},

"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "Enabled",
"value": "Enabled",
"documentation": "Enabled OrganizationIntegration"
},
{
"name": "Disabled",
"value": "Disabled",
"documentation": "Disabled OrganizationIntegration"
}
]

```
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
        "type": "list",
        "member": {
            "target": "smithy.api#String"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [

   {
                "name": "InProgress",
                "value": "InProgress",
                "documentation": "InProgress status"
            },
            {
                "name": "Completed",
                "value": "Completed",
                "documentation": "Completed status"
            },
            {
                "name": "Successful",
                "value": "Successful",
                "documentation": "Successful status"
            },
            {
                "name": "Failed",
                "value": "Failed",
                "documentation": "Failed status"
            }
        ]
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
        "type": "list",
        "member": {
            "target": "smithy.api#String",
            "traits":
{
            "smithy.api#length": {
                "min": 1,
                "max": 100
            }
        }
        },
```

"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
},
"smithy.api#uniqueItems": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
"type": "map",
"key": {
"target": "smithy.api#String"
},
"value": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
"type": "structure",
"members": {
"Name": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription. "

}
},
"Type": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own\n Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the\n Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS. "
}
},
"InstanceCount": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
"traits": {
"smithy.api#documentation": " The total amount of running instances using this subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " An object which details a discovered Linux subscription. "
}
},

"com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
    "type": "structure",
    "members": {
        "message": {
            "target": "smithy.api#String"
        }
    },
    "traits": {
        "smithy.api#documentation": " The request was denied due to request throttling. ",
        "smithy.api#error": "client"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
    },

"output": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": " Updates the service settings for Linux subscriptions. ",
        "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/subscription/UpdateServiceSettings"
        },
        "smithy.api#idempotent": {}
    }
},

"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Describes if the discovery of Linux subscriptions is enabled. ",
"smithy.api#required": {}
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. ",

"smithy.api#required": {}
}
},
"AllowUpdate": {
"target": "smithy.api#Boolean",
"traits": {
"smithy.api#documentation": " Describes if updates are allowed to the service settings for Linux subscriptions. If you\n allow updates, you can aggregate Linux subscription data in more than one home Region. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},

"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. "
}

```
            },
            "Status": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
                }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
                "traits": {
                    "smithy.api#documentation":
 "<p>A message which details the Linux subscriptions service settings current status.</p>"
                }
            },
            "HomeRegions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>The Region in which License Manager displays the aggregated
data for Linux\n      subscriptions.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
            "smithy.api#error": "client"
        }
    }
  }
}
```


```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
```

```
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - Beneficiary
 //   - ProductSKU
 //   - Fingerprint
 //
   - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License
```

```
 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if
 err := addProtocolFinalizerMiddlewares(stack, options, "ListLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
     ServiceID,
  OperationName: "ListLicenses",
 }
```

```
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 //
 This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}
```

```
type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack,
 options, "DisassociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
```

```
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}
```

```
func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
```

```
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string
```

```
// Amazon Resource
Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil
 {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
```

```
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier
```

```
 that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string
```

```
 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return
 err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
```

```
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
```

```
//
// This member is required.
Beneficiary *string

// Unique, case-sensitive identifier that you provide
to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional
// configuration for workloads running with continuous connectivity. Choose a
// borrow configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string
```

```
 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity
 *types.DatetimeRange

 // Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
  return fmt.Errorf("add
 protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
```

```
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
```

```
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName:
 "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
```

```
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }
```

```
if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return
err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack);
err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
```

```
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "GetLicense",
 }
}
```

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OWNER
 OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
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```
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DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
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(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
   - ProductSKU
 //   - Status
 //   - Fingerprint
 //   - IssuerName
 //   - Beneficiary
 Filters []types.Filter
```

```
 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
 middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
```

```
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack);
err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
 }
}
```

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```
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
```

"smithy.api#documentation": " You don't have sufficient access to perform this action. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
"type": "structure",
"members": {
"DirectoryId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The directory ID for an Active Directory identity provider. "
}
}
},
"traits": {
"smithy.api#documentation":
" Details about an Active Directory identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Associates the user to an EC2 instance to utilize user-based
subscriptions.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related
costs will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing
status) in Amazon Web Services Billing. For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n
        monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/AssociateUser"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the
 EC2 instance, which provides user-based subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>The identity provider of the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
```

```
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
        "type": "structure",
        "members": {
            "InstanceUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
                 "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
        "type": "integer"
    },
    "com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request couldn't be completed because it conflicted with the current
state of the\n      resource.</p>",
            "smithy.api#error": "server"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider":
 {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deregisters the identity provider from providing user-based
subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/DeregisterIdentityProvider"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
        "type": "structure",
        "members": {
            "IdentityProviderSummary": {
```

"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation":
" Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Disassociates the user from an EC2 instance providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/DisassociateUser"
},

"smithy.api#idempotent": {}
}

},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}

```
        }
    },

"com.amazonaws.licensemanagerusersubscriptions#Filter": {
        "type": "structure",
        "members": {
            "Attribute": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of an attribute to use as a filter.</p>"
                }
            },
            "Operation": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The type of search (For example, eq, geq, leq)</p>"
                }
            },
            "Value": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Value of the filter.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A filter name and value pair that is used
 to return more specific results from a describe\n      operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n      attributes, or IDs.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#FilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
        "type": "union",
        "members": {
            "ActiveDirectoryIdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that details an Active Directory identity provider.</p>"
                }
            }
        },
        "traits": {
```

"smithy.api#documentation":
" Details about an identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " An object that details the registered identity providers product related configuration\n settings such as the subnets to provision VPC endpoints. ",
"smithy.api#required":
{}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of an identity provider. ",
"smithy.api#required": {}
}
},
"FailureMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The failure message associated with an identity provider. "
}
}
},
"traits": {
"smithy.api#documentation":
" Describes an identity provider. "
}

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status
 of an EC2 instance resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "Products": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>A list of provided user-based subscription products.</p>",
                    "smithy.api#required": {}
                }
            },
            "LastStatusCheckDate": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The date of the last status check.</p>"
                }
            },
            "StatusMessage": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status message for an EC2 instance.</p>"
                }

    }
        },
        "traits": {
```

"smithy.api#documentation": " Describes an EC2 instance providing user-based subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits":
{
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a user associated with an EC2 instance. ",
"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for users of an EC2 instance. "
}
},

"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"AssociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was associated with an EC2 instance. "
}
},
"DisassociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was disassociated from an EC2 instance. "
}
}

},
"traits": {
"smithy.api#documentation": " Describes users of an EC2 instance providing user-based subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " An exception occurred with the service. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
"type": "service",

"version": "2018-05-10",
"operations": [

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            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

        },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
            }
        ],
        "traits": {
            "aws.api#service": {
                "sdkId": "License Manager User Subscriptions",
                "arnNamespace": "license-manager-user-subscriptions",
                "cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
            },
            "aws.auth#sigv4": {
                "name": "license-manager-user-subscriptions"
             },
            "aws.protocols#restJson1": {},
            "smithy.api#cors": {
                "additionalAllowedHeaders": [
                    "*",
```

"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",
"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"

]
},
"smithy.api#documentation": " With License Manager, you can create user-based subscriptions to utilize licensed software with\n a per user subscription fee on Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager User Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"

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            },
            "Endpoint": {
                "builtIn": "SDK::Endpoint",
                "required": false,
                "documentation": "Override the endpoint used to send this request",
                "type": "String"
            }

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        "rules": [
            {
                "conditions": [
                    {
                        "fn": "isSet",
                        "argv": [
                            {
                                "ref": "Endpoint"
                            }
                        ]
                    }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    {
                                        "ref": "UseFIPS"
                                    },

                                true
                                ]
                            }
                        ],
                        "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
                        "type": "error"
                    },
                    {
                        "conditions": [
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    {
                                        "ref": "UseDualStack"
                                    },
                                    true
```

```
                ]
            }
        ],

"error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
        "type": "error"
    },
    {
        "conditions": [],
        "endpoint": {
            "url": {
                "ref": "Endpoint"
            },
            "properties": {},
            "headers": {}
        },
        "type": "endpoint"
    }
  ]
},
{
  "conditions": [
    {
        "fn": "isSet",
        "argv": [

{
                "ref": "Region"
            }
        ]
    }
  ],
  "type": "tree",
  "rules": [
    {
        "conditions": [
            {
                "fn": "aws.partition",
                "argv": [
                    {
                        "ref": "Region"
                    }
                ],
                "assign": "PartitionResult"
            }
        ],
        "type": "tree",
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"rules": [
        {
          "conditions": [
            {
              "fn": "booleanEquals",
              "argv": [
                {
                  "ref": "UseFIPS"
                },
                true
              ]
            },
            {
              "fn": "booleanEquals",
              "argv": [
                {
                  "ref": "UseDualStack"

                },
                true
              ]
            }
          ],
          "type": "tree",
          "rules": [
            {
              "conditions": [
                {
                  "fn": "booleanEquals",
                  "argv": [
                    true,
                    {
                      "fn": "getAttr",

"argv": [
                        {
                          "ref": "PartitionResult"
                        },
                        "supportsFIPS"
                      ]
                    }
                  ]
                },
                {
                  "fn": "booleanEquals",
                  "argv": [
                    true,
                    {
```

"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsDualStack"
]
}
]
}
],
"type": "tree",
"rules": [
{

"conditions": [],
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
},
{
"conditions": [],
"error": "FIPS and DualStack are enabled, but this partition does not support one or both",
"type": "error"
}
]
},
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
},
true
]
}
],
"type": "tree",

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"rules": [
                {
                  "conditions": [
                    {
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                      "argv": [
                        true,
                        {
                          "fn": "getAttr",
                          "argv": [
                            {
                              "ref": "PartitionResult"
                            },
                            "supportsFIPS"

                    ]
                        }
                      ]
                    }
                  ],
                  "type": "tree",
                  "rules": [
                    {
                      "conditions": [],
                      "endpoint": {
                        "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                        "properties": {},
                        "headers": {}

        },
                      "type": "endpoint"
                    }
                  ]
                },
                {
                  "conditions": [],
                  "error": "FIPS is enabled but this partition does not support FIPS",
                  "type": "error"
                }
              ]
            },
            {
              "conditions": [
                {
                  "fn": "booleanEquals",
                  "argv": [
```

```
                {
                  "ref": "UseDualStack"
                },
                true
              ]
            }
          ],
          "type": "tree",
          "rules": [
            {
              "conditions": [
                {
                  "fn": "booleanEquals",
                  "argv": [
                    true,
                    {

                      "fn": "getAttr",
                        "argv": [
                          {
                            "ref": "PartitionResult"
                          },
                          "supportsDualStack"
                        ]
                    }
                  ]
                }
              ],
              "type": "tree",
              "rules": [
                {

                  "conditions": [],
                  "endpoint": {
                    "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                    "properties": {},
                    "headers": {}
                  },
                  "type": "endpoint"
                }
              ]
            },
            {
              "conditions": [],
              "error": "DualStack is enabled but this partition does
 not support DualStack",
              "type": "error"
```

```
                    }
                ]
            },
            {
                "conditions": [],
                "endpoint": {
                    "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ]
    }
]
},
{
    "conditions":
[],
    "error": "Invalid Configuration: Missing Region",
    "type": "error"
}
]
},
"smithy.rules#endpointTests": {
    "testCases": [
        {
            "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": true
            }
        },
        {
            "documentation":
"For region us-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
                }
            },
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"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
}
},

"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with
FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},

{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},

"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1
with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1
with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},

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            {
              "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
              "expect": {
                "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
              },
              "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": true,
                "UseDualStack": true
              }
            },
            {
              "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
              "expect":
{
                "endpoint": {
                  "url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
                }
              },
              "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": true,
                "UseDualStack": false
              }
            },
            {
              "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
              "expect": {
                "error": "DualStack is enabled but this partition does not support DualStack"
              },
              "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": false,
                "UseDualStack":
true
              }
            },
            {
              "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
                }
              },
              "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": false,
                "UseDualStack": false
```

```
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "error": "FIPS and DualStack are enabled, but
this partition does not support one or both"
            },
            "params": {
                "Region": "us-isob-east-1",
                "UseFIPS": true,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
                }
            },
            "params": {
                "Region": "us-isob-east-1",
                "UseFIPS": true,
                "UseDualStack": false
            }

    },
        {
            "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
                "error": "DualStack is enabled but this partition does not support DualStack"
            },
            "params": {
                "Region": "us-isob-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
                }
            },
             "params": {
                "Region": "us-isob-east-1",
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"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{

"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error": "Invalid Configuration: Dualstack and custom endpoint are not supported"

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                },
                "params": {
                    "Region": "us-east-1",
                    "UseFIPS": false,
                    "UseDualStack": true,
                    "Endpoint": "https://example.com"
                }
            },
            {
                "documentation": "Missing region",
                "expect": {
                    "error": "Invalid Configuration: Missing Region"
                }
            }
        ],
        "version": "1.0"
    }
  }
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
```

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the identity providers for user-based subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/ListIdentityProviders"
            },
            "smithy.api#paginated":
{
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "IdentityProviderSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
{
        "type": "structure",
        "members": {
            "IdentityProviderSummaries": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
                    "smithy.api#required": {}
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
        "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/instance/ListInstances"
        },
        "smithy.api#paginated": {
            "inputToken": "NextToken",
            "outputToken": "NextToken",
            "pageSize": "MaxResults",
```

"items": "InstanceSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
"type": "structure",
"members": {
"InstanceSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list instances operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
"type": "operation",

"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the user-based subscription products available from an identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/ListProductSubscriptions"
},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "ProductUserSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
"type": "structure",
"members": {

"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name
of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {

"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match
one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
"type": "structure",
"members": {
"ProductUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list product subscriptions
operation. "
}
},

```
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target":
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists user associations for an identity provider.</p>",
        "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/user/ListUserAssociations"
        },
        "smithy.api#paginated":
```

{
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": " An object that specifies details for the identity provider. ",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": " Maximum number of results to return in a single call. "
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n   more sets of key-value pairs that you specify. "
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": " Token for the next set of results. "
                }
            }
        }

```
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
    "type": "structure",
    "members": {
        "InstanceUserSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Metadata that describes the list user association operation.</p>"
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
    "type": "structure",
    "members": {

    "Username": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                "smithy.api#required": {}
            }
        },
        "Product": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                "smithy.api#required": {}
            }
        },
        "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
                "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                "smithy.api#required": {}
            }

},
        "Status": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The status of a product for a user.</p>",
```

"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for a product for a user. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"SubscriptionStartDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The
start date of a subscription. "
}
},
"SubscriptionEndDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The end date of a subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " The summary of the user-based subscription products for a user. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
},
"errors": [

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Registers an identity provider for user-based subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/RegisterIdentityProvider"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity
provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
```

```
                }
            },
            "Settings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
                "traits": {
                    "smithy.api#documentation": "<p>The registered identity providers product related configuration
settings such as the\n      subnets to provision VPC endpoints.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
        "type": "structure",
        "members": {
            "IdentityProviderSummary":
 {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the results of an identity provider
operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The resource couldn't be found.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 404
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
        "type": "string",

   "traits": {
            "smithy.api#length": {
                "min": 5,
                "max": 200
            },
            "smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
        }
```

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request failed because a service quota is exceeded.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Settings": {
        "type": "structure",
        "members": {
            "Subnets": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
                "traits": {
                    "smithy.api#documentation":
 "<p>The subnets defined for the registered identity provider.</p>",
                    "smithy.api#length": {
                        "min": 1
                    },
                    "smithy.api#required": {}
                }
            },
            "SecurityGroupId": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
                "traits": {
                    "smithy.api#documentation": "<p>A security group ID that allows inbound TCP port 1688
communication between resources in\n      your VPC and the VPC endpoint for activation servers.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The registered identity providers product related configuration settings
such as the\n      subnets to provision VPC endpoints, and the security group ID that
 is associated with the VPC\n      endpoints. The security group should permit inbound TCP port 1688
communication from resources\n      in the VPC.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
        },
```

"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Starts a product subscription for a user with the specified identity provider. \n <note>\n Your estimated bill for charges on the number of users and related costs will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing.
For more information, see Viewing your\n monthly charges in the Amazon Web Services Billing User Guide. \n </note>",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/StartProductSubscription"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider of the user. ",

"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
"type": "structure",
"members": {
"ProductUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the start product subscription operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Stops a product subscription for a user with the specified identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/StopProductSubscription"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required":

{}
            }
          },
          "Product": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": " The name of the user-based subscription product. ",
              "smithy.api#required": {}
            }
          },
          "Domain": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": " The domain name of the user. "
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
        "type": "structure",
        "members": {
          "ProductUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
            "traits": {
              "smithy.api#documentation":
" Metadata that describes the start product subscription operation. ",
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StringList": {
        "type": "list",
        "member": {
          "target": "smithy.api#String"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#Subnet": {
        "type": "string",
        "traits": {
          "smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#Subnets": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
        }

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
            "message": {

             "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request was denied because of request throttling. Retry the
request.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates additional product configuration settings for the registered
identity\n      provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/UpdateIdentityProviderSettings"
            },
            "smithy.api#idempotent": {}
        }
    },
```

"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"UpdateSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings. You can\n update any combination of settings in a single operation such as the: \n \n \n Subnets which you want to add to provision VPC endpoints. \n \n \n Subnets which you want to remove the VPC endpoints from. \n \n \n Security group ID which permits traffic to the VPC endpoints. \n \n ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
"type": "structure",
"members": {
"AddSubnets": {

"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets in which License Manager will

create a VPC endpoint for products that\n require connectivity to activation servers. ",
"smithy.api#required": {}
}
},
"RemoveSubnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets to remove. ",
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID
that allows inbound TCP port 1688 communication between resources in\n your VPC and the VPC endpoints for activation servers. "
}
}
},
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings such as\n the subnets to provision VPC endpoints. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " A parameter is not valid. ",
"smithy.api#error": "client"
}
}
}
}
{
"smithy": "2.0",
"metadata": {
"suppressions": [
{
"id": "HttpMethodSemantics",
"namespace": "*"
},
{

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            "id": "HttpResponseCodeSemantics",
            "namespace": "*"
        },
        {
            "id": "PaginatedTrait",
            "namespace": "*"
        },
        {
            "id": "HttpHeaderTrait",
            "namespace": "*"
        },
        {
            "id": "HttpUriConflict",
            "namespace": "*"
        },
        {
            "id": "Service",
            "namespace": "*"
        }
    ]
},
"shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
        "type": "service",
        "version": "2018-08-01",
        "operations": [
            {
                "target": "com.amazonaws.licensemanager#AcceptGrant"
            },

 {
                "target": "com.amazonaws.licensemanager#CheckInLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CheckoutLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateGrant"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateGrantVersion"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicense"
            },
```

{
"target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseVersion"
},
{
"target": "com.amazonaws.licensemanager#CreateToken"
},
{
"target": "com.amazonaws.licensemanager#DeleteGrant"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicense"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#DeleteToken"
},
{
"target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

},
{
"target": "com.amazonaws.licensemanager#GetAccessToken"
},
{
"target": "com.amazonaws.licensemanager#GetGrant"
},
{
"target": "com.amazonaws.licensemanager#GetLicense"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseConversionTask"

},
{
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseUsage"
},
{
"target": "com.amazonaws.licensemanager#GetServiceSettings"
},
{
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#ListDistributedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
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"cloudFormationName": "LicenseManager",
"cloudTrailEventSource": "licensemanager.amazonaws.com",
"endpointPrefix": "license-manager"
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"aws.protocols#awsJson1_1": {},

"smithy.api#documentation": " License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers. ",
"smithy.api#title": "AWS License Manager",
"smithy.api#xmlNamespace": {
"uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
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"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
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"required": true,
"default": false,
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"type": "Boolean"
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"type": "Boolean"
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"required": false,
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"type": "String"
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"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
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"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},

{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
}
},

"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {

"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,

"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,
"Endpoint": "https://example.com"

```
                }
            },
            {
                "documentation": "For custom endpoint with fips disabled and dualstack enabled",
                "expect": {
                    "error":
"Invalid Configuration: Dualstack and custom endpoint are not supported"
                },
                "params": {
                    "Region": "us-east-1",
                    "UseFIPS": false,
                    "UseDualStack": true,
                    "Endpoint": "https://example.com"
                }
            },
            {
                "documentation": "Missing region",
                "expect": {
                    "error": "Invalid Configuration: Missing Region"
                }
            }
        ],
        "version": "1.0"
    }
  }
},
"com.amazonaws.licensemanager#AcceptGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#AcceptGrantRequest"

},
    "output": {
        "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
```

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            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"

    }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant
ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " Grant version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#AccessDeniedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {

"code": "ServiceAccessDenied",
"httpResponseCode": 401
},
"smithy.api#documentation": " Access to resource denied. ",
"smithy.api#error": "client",
"smithy.api#httpError": 401
}
},
"com.amazonaws.licensemanager#ActivationOverrideBehavior": {
"type": "enum",
"members": {
"DISTRIBUTED_GRANTS_ONLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
}
},
"ALL_GRANTS_PERMITTED_BY_ISSUER": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
}
}
}
},
"com.amazonaws.licensemanager#AllowedOperation": {

"type": "enum",
"members": {

```
            "CREATE_GRANT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "CreateGrant"
                }
            },
            "CHECKOUT_LICENSE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "CheckoutLicense"
                }
            },
            "CHECKOUT_BORROW_LICENSE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "CheckoutBorrowLicense"
                }
            },
            "CHECK_IN_LICENSE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "CheckInLicense"
                }
            },
            "EXTEND_CONSUMPTION_LICENSE":
{
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "ExtendConsumptionLicense"
                }
            },
            "LIST_PURCHASED_LICENSES": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "ListPurchasedLicenses"
                }
            },
            "CREATE_TOKEN": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "CreateToken"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#AllowedOperationList": {
        "type": "list",
        "member": {
```

"target": "com.amazonaws.licensemanager#AllowedOperation"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max":
7
}
}
},
"com.amazonaws.licensemanager#Arn": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
}
},
"com.amazonaws.licensemanager#ArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
}
},
"com.amazonaws.licensemanager#AuthorizationException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError":
{
"code": "AuthorizationFailure",
"httpResponseCode": 403
},
"smithy.api#documentation": " The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n policy associated with this account. ",
"smithy.api#error": "client",
"smithy.api#httpError": 403
}
},
"com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
"type": "structure",

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        "members": {
          "LastRunTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes automated discovery.</p>"
        }
      },

  "com.amazonaws.licensemanager#Boolean": {
        "type": "boolean",
        "traits": {
          "smithy.api#default": false
        }
      },
      "com.amazonaws.licensemanager#BorrowConfiguration": {
        "type": "structure",
        "members": {
          "AllowEarlyCheckIn": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>Indicates whether early check-ins are allowed.</p>",
              "smithy.api#required": {}
            }
          },
          "MaxTimeToLiveInMinutes": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
              "smithy.api#required": {}
            }
          }

},
        "traits": {
          "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#BoxBoolean": {
        "type": "boolean"
      },
      "com.amazonaws.licensemanager#BoxInteger": {
        "type": "integer"
      },
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"com.amazonaws.licensemanager#BoxLong": {
"type": "long"
},
"com.amazonaws.licensemanager#CheckInLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"

},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks in the specified license. Check in a license when it is no longer in use. "
}
},
"com.amazonaws.licensemanager#CheckInLicenseRequest":
{
"type": "structure",
"members": {
"LicenseConsumptionToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CheckInLicenseResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicense":
{
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"

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            },
            {
                "target":
 "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members":
 {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
                    "smithy.api#required": {}
                }
            },
            "DigitalSignatureMethod": {
                "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
                "traits": {
                    "smithy.api#documentation": "<p>Digital signature method. The possible
```

value is JSON Web Signature (JWS) algorithm PS384.\n For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS. ",
"smithy.api#required": {}
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation":
" Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed":
{
"target": "com.amazonaws.licensemanager#EntitlementDataList",

"traits": {
"smithy.api#documentation": " Allowed license entitlements. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"SignedToken": {
"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout
is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"

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        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license.</p>\n        <note>\n            <p>If the
account that created the license is the same that is performing the check out, you must\n            specify the account
as the beneficiary.</p>\n        </note>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutLicenseRequest": {
        "type": "structure",
        "members": {
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product
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SKU. ",
"smithy.api#required": {}
}
},
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. ",
"smithy.api#required": {}
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Key fingerprint identifying the license. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. ",

"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
}
},
"traits": {

```
    "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
    "type": "structure",
    "members": {
        "CheckoutType": {
            "target": "com.amazonaws.licensemanager#CheckoutType",
            "traits": {
                "smithy.api#documentation": "<p>Checkout type.</p>"
            }
        },
        "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
            }
        },
        "EntitlementsAllowed": {
            "target": "com.amazonaws.licensemanager#EntitlementDataList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
            }
        },
        "SignedToken": {
            "target": "com.amazonaws.licensemanager#SignedToken",
            "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
            }
        },
        "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        },
        "IssuedAt": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
            }
        },
        "Expiration": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date and
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time at which the license checkout expires. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the checkout license. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutType": {
"type": "enum",
"members": {
"PROVISIONAL": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PROVISIONAL"
}
},
"PERPETUAL": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PERPETUAL"
}
}
}
},
"com.amazonaws.licensemanager#ClientRequestToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 36
}
}
},
"com.amazonaws.licensemanager#ClientToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^\\S+$"

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        }
    },
    "com.amazonaws.licensemanager#ConflictException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ConflictException",
                "httpResponseCode":
 409
            },
            "smithy.api#documentation": "<p>There was a conflict processing the request. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 409
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
                }
            },
            "ConsumedLicenses": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
                }
            }
        },

 "traits": {
            "smithy.api#documentation": "<p>Details about license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
        }
    },
```

"com.amazonaws.licensemanager#ConsumptionConfiguration": {
"type": "structure",
"members": {
"RenewType": {
"target": "com.amazonaws.licensemanager#RenewType",
"traits": {
"smithy.api#documentation": " Renewal frequency. "
}
},
"ProvisionalConfiguration": {
"target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"BorrowConfiguration": {
"target": "com.amazonaws.licensemanager#BorrowConfiguration",
"traits": {
"smithy.api#documentation": " Details about a borrow configuration. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a consumption configuration. "
}
},
"com.amazonaws.licensemanager#CreateGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target":
"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},

```
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of
license\n        entitlements with a specific Amazon Web Services account, an organization, or an\n
organizational unit (OU). For more
 information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}

    }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Principals": {
                "target": "com.amazonaws.licensemanager#PrincipalArnList",
                "traits": {
                    "smithy.api#documentation": "<p>The grant principals. You can specify one of the following as an
```

Amazon Resource Name\n (ARN): \n \n \n An Amazon Web Services account, which includes only the account specified. \n \n \n \n \n An organizational unit (OU), which includes all accounts in the OU. \n \n \n \n \n An organization, which will include all accounts across your organization. \n \n ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},

"com.amazonaws.licensemanager#CreateGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "

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                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersion":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
             },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information,
see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
        "type": "structure",
        "members": {
```

"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",

"smithy.api#required": {}
}
},
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the grant. "
}
},
"Options": {
"target": "com.amazonaws.licensemanager#Options",

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            "traits": {
                "smithy.api#documentation": "<p>The options specified for the grant.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>New version of the grant.</p>"
            }
        }
    },
    "traits":
{
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
```

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            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
```

"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Creates a license configuration. \n A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a \n license must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension used to track the license inventory. ",
"smithy.api#required": {}
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances. "
}
},

"LicenseRules": {
"target":
"com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. The syntax is #name=value (for example,
#allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows. \n
\n \n \n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n
<code>licenseAffinityToHost</code> |\n <code>maximumCores</code> |
<code>minimumCores</code>\n \n \n \n \n
<code>Instances</code> dimension: <code>allowedTenancy</code> | \n <code>maximumCores</code> |
<code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n
<code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n
\n
\n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n
<code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> |
<code>minimumSockets</code>\n \n \n \n \n
<code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n
<code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> |
<code>minimumVcpus</code>\n \n \n \n The unit for
<code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for
<code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n
<code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n
<code>True</code> and <code>False</code>. "
}
},

"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the license configuration. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is
uninstalled. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
}
},
"traits": {
"smithy.api#input": {}

```
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse":
{
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
        }
```

```
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {

                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting
from. \n\n        For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            },
            "DestinationLicenseContext":
 {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting to.
For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

       "traits": {
                    "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
                }
```

```
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a report generator.</p>"
    }
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
    "type": "structure",
    "members": {
        "ReportGeneratorName":
```

{
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types an be generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}

}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " Defines the type of license configuration the report generator tracks. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}

```
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Tags to add to the report generator.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn":
 {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the new report
generator.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product
 name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " Product SKU. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits": {
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region for the license. ",
"smithy.api#required": {}

}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",

"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation":
" Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},

"com.amazonaws.licensemanager#CreateLicenseVersion": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a new version of the specified license. "
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target":
"com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}

```
            },
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product name.</p>",
                    "smithy.api#required": {}
                }
            },
            "Issuer": {
                "target": "com.amazonaws.licensemanager#Issuer",
                "traits":
{
                    "smithy.api#documentation": "<p>License issuer.</p>",
                    "smithy.api#required": {}
                }
            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Home Region of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Validity": {
                "target": "com.amazonaws.licensemanager#DatetimeRange",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                     "smithy.api#documentation": "<p>Information about the license.</p>"
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",
```

"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},

"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. "
}

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            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>New version of the license.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output":
{}
        }
    },
    "com.amazonaws.licensemanager#CreateToken": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateTokenResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },

    {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
```

"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a long-lived token. \n A refresh token is a JWT token used to get an access token. With an access token,\n you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n call License Manager to manage the specified license. "
}
},
"com.amazonaws.licensemanager#CreateTokenRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits":
{
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n JWT token. ",
"smithy.api#required": {}
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n License Manager does not check whether the roles are in use. "
}
},
"ExpirationInDays": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Token expiration, in days, counted from token creation. The default is 365 days. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller to be included in the JWT token. The data is mapped\n to the amr claim of the JWT token. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {

"smithy.api#documentation": " Idempotency token, valid for 10 minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateTokenResponse": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Token ID. "
}
},
"TokenType": {
"target": "com.amazonaws.licensemanager#TokenType",
"traits": {
"smithy.api#documentation": " Token type. "
}
},
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token, encoded as a JWT token. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DateTime": {
"type": "timestamp"
},
"com.amazonaws.licensemanager#DatetimeRange": {
"type": "structure",
"members": {
"Begin": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Start of the time range. ",
"smithy.api#required": {}
}

```
            },
            "End": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>End of the time range.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes
the specified grant.</p>"
        }
    },
```

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    "com.amazonaws.licensemanager#DeleteGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the
grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
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" Grant version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license configuration. \n You cannot delete a license configuration that is in use. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
"type": "structure",
"members":
{
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the license configuration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
"type": "structure",

"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified report generator. \n This action deletes the report generator, which stops it from generating future reports.\n The action cannot be reversed. It has no effect on the previous reports from this generator. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {

"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to be deleted. ",
"smithy.api#required": {}
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. ",
"smithy.api#required":
{}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseResponse": {
"type": "structure",
"members": {
"Status": {

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            "target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        },
        "DeletionDate": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date when the license is deleted.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#DeleteToken": {
    "type": "operation",
     "input": {
        "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },

{
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
```

"traits": {
"smithy.api#documentation": " Deletes the specified token. Must be called in the license home Region. "
}
},
"com.amazonaws.licensemanager#DeleteTokenRequest": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteTokenResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}

}
},
"com.amazonaws.licensemanager#DigitalSignatureMethod": {
"type": "enum",
"members": {
"JWT_PS384": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "JWT_PS384"
}
}
}
},
"com.amazonaws.licensemanager#Entitlement": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement name. ",
"smithy.api#required": {}
}

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            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement resource. Use only
if the unit is None.</p>"
                }
            },
            "MaxCount": {
                "target": "com.amazonaws.licensemanager#Long",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
                }
            },
            "Overage": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether overages are allowed.</p>"
                }
            },
            "Unit": {
                "target": "com.amazonaws.licensemanager#EntitlementUnit",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement unit.</p>",
                    "smithy.api#required": {}
                }
            },
            "AllowCheckIn": {
                "target":
"com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether check-ins are allowed.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes a resource entitled for use with a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementData": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement data name.</p>",
                    "smithy.api#required": {}
                }
```

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            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement
data value.</p>"
                }
            },
            "Unit": {
                "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement data unit.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Data associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementDataList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementData"
        }
    },
    "com.amazonaws.licensemanager#EntitlementDataUnit": {
        "type": "enum",
        "members": {
            "COUNT": {
                "target": "smithy.api#Unit",
                "traits": {

"smithy.api#enumValue": "Count"
                }
            },
            "NONE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "None"
                }
            },
            "SECONDS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Seconds"
                }
            },
```

"MICROSECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Microseconds"
}
},
"MILLISECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Milliseconds"
}
},
"BYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes"
}
},
"KILOBYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes"
}
},
"MEGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes"
}
},
"GIGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes"
}
},
"TERABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}

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        },
        "KILOBITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobits"
            }
        },
        "MEGABITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabits"
            }
        },
        "GIGABITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabits"
            }
        },
        "TERABITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits"

    }
        },
        "PERCENT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Percent"
            }
        },
        "BYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bytes/Second"
            }
        },
        "KILOBYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes/Second"
            }
        },
        "MEGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes/Second"
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```
            }
        },
        "GIGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Gigabytes/Second"
            }
        },
        "TERABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabytes/Second"
            }
        },
        "BITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bits/Second"
            }
        },
        "KILOBITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobits/Second"
            }
        },
        "MEGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue":
"Megabits/Second"
            }
        },
        "GIGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabits/Second"
            }
        },
        "TERABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits/Second"
            }
        },
        "COUNT_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
```

```
                "smithy.api#enumValue": "Count/Second"
            }
        }
    }
},
"com.amazonaws.licensemanager#EntitlementList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Entitlement"
    }
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#EntitlementUnit": {
    "type": "enum",
    "members": {
        "COUNT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Count"
            }
        },
        "NONE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "None"
            }
        },
        "SECONDS":
{
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Seconds"
            }
        },
        "MICROSECONDS": {
```

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    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Microseconds"
    }
},
"MILLISECONDS": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Milliseconds"
    }
},
"BYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Bytes"
    }
},
"KILOBYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Kilobytes"
     }
},
"MEGABYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Megabytes"
    }
},
"GIGABYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Gigabytes"
    }
},
"TERABYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Terabytes"
    }
},
"BITS": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Bits"
    }
},
"KILOBITS": {
```

"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"
}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target":
"smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"
}
},
"KILOBYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes/Second"
}
},
"MEGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes/Second"
}

```
            },
            "GIGABYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Gigabytes/Second"
                }
            },
            "TERABYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {

"smithy.api#enumValue": "Terabytes/Second"
                }
            },
            "BITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Bits/Second"
                }
            },
            "KILOBITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Kilobits/Second"
                }
            },
            "MEGABITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Megabits/Second"
                }
            },
            "GIGABITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Gigabits/Second"
                }
            },

        "TERABITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Terabits/Second"
                }
            },
            "COUNT_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
```

```
                "smithy.api#enumValue": "Count/Second"
            }
        }
    }
},
"com.amazonaws.licensemanager#EntitlementUsage": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                "smithy.api#required": {}
            }
        },
        "ConsumedValue": {
            "target": "com.amazonaws.licensemanager#String",

       "traits": {
                "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxCount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
    }
},
"com.amazonaws.licensemanager#EntitlementUsageList":
{
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#EntitlementUsage"
    }
},
```

"com.amazonaws.licensemanager#ExtendLicenseConsumption": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Extends the expiration date for license consumption. "
}
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",
"smithy.api#required": {}

}
},
"DryRun": {
"target": "com.amazonaws.licensemanager#Boolean",

"traits": {
"smithy.api#default": false,
"smithy.api#documentation": " Checks whether you have the required permissions for the action, without actually making the request. Provides an error response if you do not have the required permissions. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},

"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license consumption expires. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#FailedDependencyException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
},
"ErrorCode": {
"target": "com.amazonaws.licensemanager#String"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FailedDependency",
"httpResponseCode": 424
},
"smithy.api#documentation":

" A dependency required to run the API is missing. ",
"smithy.api#error": "client",
"smithy.api#httpError": 424
}
},
"com.amazonaws.licensemanager#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#FilterName",
"traits": {
"smithy.api#documentation": " Name of the filter. Filter names are case-sensitive. "
}
},
"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " The value of the filter, which is case-sensitive. You can only specify one value for the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter name and value pair that is used to return more specific results from a\n describe operation. Filters can be used to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FilterLimitExceeded",
"httpResponseCode": 400
},
"smithy.api#documentation": " The request uses too many filters or too many filter values. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#FilterList": {
"type": "list",

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    "member": {
        "target": "com.amazonaws.licensemanager#Filter"
    }
},
"com.amazonaws.licensemanager#FilterName": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#FilterValue",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#Filters": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Filter",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#GetAccessToken": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access
 tokens\n          are valid for one hour.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenRequest": {
        "type": "structure",
        "members": {
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT
token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenResponse":
 {
        "type": "structure",
        "members": {
            "AccessToken": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Temporary access token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
```

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"com.amazonaws.licensemanager#GetGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"

   },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
```

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            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
                "smithy.api#documentation": "<p>Grant details.</p>"
            }
        }
    },
    "traits": {

"smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
```

},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license configuration. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}

```
            }
          }
        },
        "traits":
{
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
          "LicenseConfigurationId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
            }
          },
          "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
          },
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Name of the license configuration.</p>"
             }
          },
          "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
          },
          "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
              "smithy.api#documentation": "<p>Dimension for which the licenses are counted.</p>"
            }
          },
          "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
              "smithy.api#documentation": "<p>License rules.</p>"
            }
          },
          "LicenseCount": {
```

"target": "com.amazonaws.licensemanager#BoxLong",

"traits": {
"smithy.api#documentation": " Number of available licenses. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Sets the number of available licenses as a hard limit. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses assigned to resources. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License configuration status. "
}

},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}

```
            },
            "ProductInformationList": {
                "target": "com.amazonaws.licensemanager#ProductInformationList",
                "traits": {
                    "smithy.api#documentation": "<p>Product information.</p>"
                }
            },
            "AutomatedDiscoveryInformation": {
                "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
                "traits": {
                    "smithy.api#documentation": "<p>Automated discovery information.</p>"
                }
            },
            "DisassociateWhenNotFound": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>When
true, disassociates a resource when software is uninstalled.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConversionTask": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {

 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
```

"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified license type conversion task. "
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",

"traits": {
"smithy.api#documentation": " Information about the license type converted to. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " Status of the license type conversion task. "
}
},

"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was started . "
}
},
"LicenseConversionTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Amount of time to complete the license type conversion. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was completed. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified report generator. "
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. ",
"smithy.api#required":
{}
}
}
},
"traits": {
"smithy.api#input": {}
}

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    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
      "type": "structure",
      "members": {
        "ReportGenerator": {
          "target": "com.amazonaws.licensemanager#ReportGenerator",
          "traits": {
            "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#GetLicenseRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {

 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "Version": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License version.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#GetLicenseResponse": {
      "type": "structure",
      "members": {
        "License": {
          "target": "com.amazonaws.licensemanager#License",
          "traits": {
            "smithy.api#documentation": "<p>License details.</p>"
          }
        }
      },
```

"traits": {
"smithy.api#output": {}
}
},

"com.amazonaws.licensemanager#GetLicenseUsage": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the usage of the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseUsageRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
}

```
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageResponse": {
        "type": "structure",
        "members": {
            "LicenseUsage": {
                "target":
"com.amazonaws.licensemanager#LicenseUsage",
                "traits": {
                    "smithy.api#documentation": "<p>License usage details.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
        "type": "structure",
```

"members": {},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Regional S3 bucket path for storing reports, license trail event data, discovery data,\n and so on. "

}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " SNS topic configured to receive notifications from License Manager. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Indicates whether Organizations is integrated with License Manager for\n cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether cross-account discovery is enabled. "
}

},
"LicenseManagerResourceShareArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource share. The License Manager management account \n provides member accounts with access to this share. "
}
}
},
"traits": {
"smithy.api#output": {}
}

```
    },
    "com.amazonaws.licensemanager#Grant": {
      "type": "structure",
      "members": {
        "GrantArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
            "smithy.api#required": {}
          }
        },
        "GrantName": {

 "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Grant name.</p>",
            "smithy.api#required": {}
          }
        },
        "ParentArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Parent ARN.</p>",
            "smithy.api#required": {}
          }
        },
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>License ARN.</p>",
            "smithy.api#required": {}
          }
        },
        "GranteePrincipalArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {

"smithy.api#documentation": "<p>The grantee principal ARN.</p>",
            "smithy.api#required": {}
          }
        },
        "HomeRegion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Home Region of the grant.</p>",
            "smithy.api#required": {}
          }
        },
```

```
            "GrantStatus": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>",
                    "smithy.api#required": {}
                }
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status reason.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Granted operations.</p>",
                    "smithy.api#required": {}
                }
            },
            "Options": {
                "target": "com.amazonaws.licensemanager#Options",
                "traits": {
                    "smithy.api#documentation": "<p>The options specified for the grant.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
"<p>Describes a grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#GrantList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Grant"
        }
    },
    "com.amazonaws.licensemanager#GrantStatus": {
        "type": "enum",
        "members": {
```

"PENDING_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_WORKFLOW"
}
},
"PENDING_ACCEPT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_ACCEPT"
}
},
"REJECTED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REJECTED"

}
},
"ACTIVE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ACTIVE"
}
},
"FAILED_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "FAILED_WORKFLOW"
}
},
"DELETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DELETED"
}
},
"PENDING_DELETE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_DELETE"
}
},
"DISABLED": {
"target": "smithy.api#Unit",
"traits":
{
"smithy.api#enumValue": "DISABLED"

```
            }
        },
        "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#GrantedLicense": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License name.</p>"
            }

},
        "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product name.</p>"
            }
        },
        "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product SKU.</p>"
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>Granted license issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the granted license.</p>"
```

```
 }
},
"Status": {
   "target": "com.amazonaws.licensemanager#LicenseStatus",
   "traits": {
      "smithy.api#documentation": "<p>Granted license status.</p>"
   }
},
"Validity": {
   "target": "com.amazonaws.licensemanager#DatetimeRange",
   "traits": {
      "smithy.api#documentation": "<p>Date and time range during which the granted license is valid, in
ISO8601-UTC format.</p>"
   }
},
"Beneficiary": {
   "target": "com.amazonaws.licensemanager#String",
   "traits": {
      "smithy.api#documentation": "<p>Granted license beneficiary.</p>"
   }
},
"Entitlements": {
   "target": "com.amazonaws.licensemanager#EntitlementList",
    "traits": {
      "smithy.api#documentation": "<p>License entitlements.</p>"
   }
},
"ConsumptionConfiguration": {
   "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
   "traits": {
      "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
   }
},
"LicenseMetadata": {
   "target": "com.amazonaws.licensemanager#MetadataList",
   "traits": {
      "smithy.api#documentation": "<p>Granted license metadata.</p>"
   }
},
"CreateTime": {
   "target": "com.amazonaws.licensemanager#ISO8601DateTime",
   "traits": {
      "smithy.api#documentation": "<p>Creation time of the granted license.</p>"

}
},
"Version": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Version of the granted license. "
}
},
"ReceivedMetadata": {
"target": "com.amazonaws.licensemanager#ReceivedMetadata",
"traits": {
"smithy.api#documentation": " Granted license received metadata. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a license that is granted to a grantee. "
}
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#GrantedLicense"
}
},
"com.amazonaws.licensemanager#ISO8601DateTime":
{
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
}
},
"com.amazonaws.licensemanager#Integer": {
"type": "integer"
},
"com.amazonaws.licensemanager#InvalidParameterValueException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidParameterValueProvided",
"httpResponseCode": 400

```
            },
            "smithy.api#documentation":
 "<p>One or more parameter values are not valid.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InvalidResourceStateException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidResourceState",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n        <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },

    "com.amazonaws.licensemanager#InventoryFilter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the filter.</p>",
                    "smithy.api#required": {}
                }
            },
            "Condition": {
                "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
                "traits": {
                    "smithy.api#documentation": "<p>Condition of the filter.</p>",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Value of the filter.</p>"
```

```
            }
        }

    },
        "traits": {
            "smithy.api#documentation": "<p>An inventory filter.</p>"
        }
    },
    "com.amazonaws.licensemanager#InventoryFilterCondition": {
        "type": "enum",
        "members": {
            "EQUALS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "EQUALS"
                }
            },
            "NOT_EQUALS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "NOT_EQUALS"
                }
            },
            "BEGINS_WITH": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "BEGINS_WITH"
                }
            },
            "CONTAINS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "CONTAINS"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#InventoryFilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#InventoryFilter"
        }
    },
    "com.amazonaws.licensemanager#Issuer": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " Issuer name. ",
"smithy.api#required": {}
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage
of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about the issuer of a license. "
}
},
"com.amazonaws.licensemanager#IssuerDetails": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. "
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer key fingerprint. "
}
}
},
"traits": {
"smithy.api#documentation": " Details associated with the issuer of a license. "
}
},
"com.amazonaws.licensemanager#License": {
"type": "structure",

"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " License name. "
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " License issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Home Region of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {

"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"Entitlements": {

"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " License metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License creation time. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#documentation": " Software license that is managed in License Manager. "
}
},
"com.amazonaws.licensemanager#LicenseConfiguration": {

```
"type": "structure",
"members": {
  "LicenseConfigurationId": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
    }
  },
  "LicenseConfigurationArn": {
    "target": "com.amazonaws.licensemanager#String",
     "traits": {
      "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    }
  },
  "Name": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>Name of the license configuration.</p>"
    }
  },
  "Description": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>Description of the license configuration.</p>"
    }
  },
  "LicenseCountingType": {
    "target": "com.amazonaws.licensemanager#LicenseCountingType",
    "traits": {
      "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
     }
  },
  "LicenseRules": {
    "target": "com.amazonaws.licensemanager#StringList",
    "traits": {
      "smithy.api#documentation": "<p>License rules.</p>"
    }
  },
  "LicenseCount": {
    "target": "com.amazonaws.licensemanager#BoxLong",
    "traits": {
      "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
    }
  },
  "LicenseCountHardLimit": {
    "target": "com.amazonaws.licensemanager#BoxBoolean",
    "traits": {
      "smithy.api#documentation": "<p>Number of available licenses as a hard limit.</p>"
```

```
            }
        },
        "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
             "traits": {
                "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses consumed. </p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Status of the license configuration.</p>"
            }
        },
        "OwnerAccountId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Account ID of the license configuration's owner.</p>"

       }
        },
        "ConsumedLicenseSummaryList": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Summaries for licenses consumed by various resources.</p>"
            }
        },
        "ManagedResourceSummaryList": {
            "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Summaries for managed resources.</p>"
            }
        },
        "ProductInformationList": {
            "target": "com.amazonaws.licensemanager#ProductInformationList",
            "traits": {
                "smithy.api#documentation": "<p>Product information.</p>"
            }
        },
        "AutomatedDiscoveryInformation": {
```

"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource consuming licenses. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " Time when the license configuration was associated with the resource. "
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-

account</code>. "
            }
          }
        },
        "traits": {
          "smithy.api#documentation": " Describes an association with a license configuration. "
        }
      },
      "com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
        }
      },
      "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
        "type": "enum",
        "members":
{
          "AVAILABLE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "AVAILABLE"
            }
          },
          "DISABLED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DISABLED"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
        "type": "structure",
        "members": {
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
            }
          },
          "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits":
{
              "smithy.api#documentation": " Type of resource. "
            }
          },

"ResourceStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was initially associated with the resource. "
}
},

"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
}
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfiguration"
}
},
"com.amazonaws.licensemanager#LicenseConversionContext": {

"type": "structure",
"members": {

"UsageOperation": {
"target": "com.amazonaws.licensemanager#UsageOperation",
"traits": {
"smithy.api#documentation": " The Usage operation value that corresponds to the license type you are converting your resource from. For more information about which platforms correspond to which usage operation values see Sample data: usage operation by platform\n \n "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTask": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {

"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource associated with the license type\n conversion task. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted to. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",

"traits": {
"smithy.api#documentation": " The status of the conversion task. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation":
" The time the conversion task was started at. "
}
},
"LicenseConversionTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the usage operation value of the resource was changed. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was completed. "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTaskId": {
"type": "string",
"traits": {

"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
}
},
"com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
"type": "enum",

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        "members": {
          "IN_PROGRESS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "IN_PROGRESS"
            }
          },
          "SUCCEEDED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "SUCCEEDED"
            }
          },
          "FAILED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "FAILED"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTasks":
{
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#LicenseConversionTask"
        }
      },
      "com.amazonaws.licensemanager#LicenseCountingType": {
        "type": "enum",
        "members": {
          "VCPU": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "vCPU"
            }
          },
          "INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Instance"
            }
          },
          "CORE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Core"
            }
```

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        },
        "SOCKET": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Socket"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {
    "type": "enum",
    "members": {
        "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {

    "type": "structure",
    "members": {
        "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
        },
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Resource type.</p>"
            }
        },
```

"ErrorMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Error message. "
}
},
"FailureTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " Failure time. "
}
},
"OperationName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the operation. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource. "
}
},
"OperationRequestedBy": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The requester is \"License Manager Automated Discovery\". "
}
},
"MetadataList": {

"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Reserved. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the failure of a license operation. "
}
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailure"

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        }
    },
    "com.amazonaws.licensemanager#LicenseSpecification": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

                "smithy.api#required": {}
                }
            },
            "AmiAssociationScope": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details for associating a license configuration with a resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseSpecifications": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseSpecification"
        }
    },
    "com.amazonaws.licensemanager#LicenseStatus": {
        "type": "enum",
        "members": {
            "AVAILABLE": {
                "target": "smithy.api#Unit",

            "traits": {
                    "smithy.api#enumValue": "AVAILABLE"
                }
            },
            "PENDING_AVAILABLE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_AVAILABLE"
                }
            },
```

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        "DEACTIVATED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DEACTIVATED"
            }
        },
        "SUSPENDED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "SUSPENDED"
            }
        },
        "EXPIRED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EXPIRED"
            }
        },

      "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseUsage": {
    "type": "structure",
    "members": {
        "EntitlementUsages": {
            "target": "com.amazonaws.licensemanager#EntitlementUsageList",
            "traits": {
                "smithy.api#documentation": "<p>License entitlement usages.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes the entitlement usage associated with a license.</p>"

    }
},
```

"com.amazonaws.licensemanager#LicenseUsageException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "LicenseUsageFailure",
"httpResponseCode": 412
},
"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {

"smithy.api#documentation": " Lists the resource associations for the
specified license configuration. \n Resource associations need not consume licenses from a license
configuration. \n For example, an AMI or a stopped instance might not consume a license (depending on \n
the license rules). "
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results
to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationAssociations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license
configuration. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants distributed for the specified license. "
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",

"traits": {

"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranteePrincipalARN</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",

"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "

```
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
        },
        "errors": [
          {

"target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the license configuration operations that failed.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
        "type": "structure",
        "members": {
          "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
               "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
               "smithy.api#required": {}
            }
          },
          "MaxResults": {
```

"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse": {
"type": "structure",
"members": {
"LicenseOperationFailureList": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
"traits": {
"smithy.api#documentation": " License configuration operations that failed. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
},

"output": {
"target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configurations
for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the license
configurations. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next
set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",

"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>licenseCountingType</code> - The dimension for which licenses are counted.\n Possible values are <code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement is used. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n
\n \n \n <code>usagelimitExceeded</code> - A Boolean value that indicates whether the available licenses have been exceeded. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
"type": "structure",
"members": {
"LicenseConfigurations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurations",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasks": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license type conversion tasks for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
"type": "structure",
"members": {
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " \n Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n "
}
}
},
"traits": {
"smithy.api#input": {}
}

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    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTasks": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configuration tasks for your
account.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
```

"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the report generators for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>LicenseConfigurationArn</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
"type": "structure",
"members": {
"ReportGenerators": {
"target": "com.amazonaws.licensemanager#ReportGeneratorList",

"traits": {
"smithy.api#documentation": " A report generator that creates periodic reports about your license configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}

}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Describes the license configurations for the specified resource. "
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
"type": "structure",

"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a resource that has an associated license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {
"LicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " License configurations associated with a resource. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseVersions": {

```
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
```

```
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
              "smithy.api#documentation": "<p>License details.</p>"
            }
          },

"NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenses": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicensesRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicensesResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
           },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the licenses for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicensesRequest": {
        "type": "structure",
        "members": {
            "LicenseArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
                }
            },

     "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>Beneficiary</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                <code>ProductSKU</code>\n                </p>\n            </li>\n
    <li>\n                <p>\n                <code>Fingerprint</code>\n                </p>\n            </li>\n            <li>\n
<p>\n                <code>Status</code>\n                </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token
 for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
```

```
        }
    },
    "com.amazonaws.licensemanager#ListLicensesResponse": {
        "type": "structure",
        "members": {
            "Licenses": {
                "target": "com.amazonaws.licensemanager#LicenseList",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {

"smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrants": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
```

"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists grants that are received. Received grants are grants created while specifying the\n recipient as this Amazon Web Services account, your organization, or an organizational unit\n (OU) to which this member account belongs. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants received for all accounts in the organization. "
}
},

"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the received license. ",
"smithy.api#required": {}
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n
\n \n \n <code>ParentArn</code>\n \n \n
\n \n <code>GranteePrincipalArn</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Lists the grants the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranterAccountId</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {

```
    "type": "structure",
    "members": {
      "Grants": {
        "target": "com.amazonaws.licensemanager#GrantList",
         "traits": {
          "smithy.api#documentation": "<p>Received grant details.</p>"
        }
      },
      "NextToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#ListReceivedLicenses": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
       },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      },
      {
        "target": "com.amazonaws.licensemanager#ValidationException"
```

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists received licenses.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {

    "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the licenses received for all accounts in the organization.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
```

"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#GrantedLicenseList",
"traits": {
"smithy.api#documentation": " Lists the licenses the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {

"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>IssuerName</code>\n \n \n \n \n <code>Beneficiary</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#GrantedLicenseList",
"traits": {
"smithy.api#documentation": " Received license details. "
}
},

"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "

```
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListResourceInventory": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
             "target": "com.amazonaws.licensemanager#FailedDependencyException"
        },
        {
            "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
    }
},
"com.amazonaws.licensemanager#ListResourceInventoryRequest": {
    "type": "structure",
    "members": {
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
```

"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#InventoryFilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n
\n \n \n <code>application_name</code> - The name of the application. \n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n
\n \n \n <code>license_included</code> - The type of license included. \n
Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n Possible values are <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n
\n <code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n \n \n \n
<code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n
<code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account). \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListResourceInventoryResponse": {
"type": "structure",
"members": {
"ResourceInventoryList": {
"target": "com.amazonaws.licensemanager#ResourceInventoryList",
"traits": {
"smithy.api#documentation": " Information about the resources. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListTagsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the tags for the specified license configuration. "
}
},
"com.amazonaws.licensemanager#ListTagsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",

"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListTagsForResourceResponse": {
"type": "structure",
"members": {
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Information about the tags. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListTokens": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListTokensRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListTokensResponse"
},
"errors":
[
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],

"traits": {
"smithy.api#documentation": " Lists your tokens. "
}
},
"com.amazonaws.licensemanager#ListTokensRequest": {
"type": "structure",
"members": {
"TokenIds": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " Token IDs. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filter is supported: \n
\n \n \n <code>LicenseArns</code>\n \n \n
"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation":
" Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListTokensResponse": {
"type": "structure",
"members": {
"Tokens": {
"target": "com.amazonaws.licensemanager#TokenList",
"traits": {
"smithy.api#documentation": " Received token details. "
}

```
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
             {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying
license\n        consumption details by resource at a selected point in time. Use this action to audit the\n        current
license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
```

"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>resourceArn</code> - The ARN of the license configuration resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceAccount</code> - The ID of the account that owns the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
"type": "structure",
"members": {

"LicenseConfigurationUsageList": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",

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                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Location": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#Long": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#ManagedResourceSummary": {
        "type": "structure",
        "members": {
            "ResourceType":
{
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
                }
            },
            "AssociationCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ManagedResourceSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
        }
    },
```

"com.amazonaws.licensemanager#MaxSize100": {

"type": "integer",
"traits": {
"smithy.api#range": {
"min": 1,
"max": 100
}
}
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#String"
},
"traits": {
"smithy.api#length": {
"min": 0,
"max": 3
}
}
},
"com.amazonaws.licensemanager#Message": {
"type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The key name. "
}
},

"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The value. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes key/value pairs. "
}
},
"com.amazonaws.licensemanager#MetadataList": {
"type": "list",

"member": {
"target": "com.amazonaws.licensemanager#Metadata"
}
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#Options": {
"type": "structure",
"members": {
"ActivationOverrideBehavior": {
"target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
"traits": {
"smithy.api#documentation": " An activation option for your grant that determines the behavior of activating a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter. \n \n \n As a license administrator, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant. \n \n \n As a grantor, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your organization. \n \n \n As a grantee, if the grantor creating the distributed grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n are activating the grant. \n \n \n <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n Use this value to activate a grant without replacing any member accounts\n active grants for the same product. \n </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n Use this value to activate a grant and disable other active grants in any\n member accounts for the same product. This action will also replace their\n previously activated grants with this activated grant. \n </dd>\n </dl>"
}
}
},
"traits": {
"smithy.api#documentation": " The options you can specify when you create a new version of a grant, such as activation\n override behavior. For more information, see Granted licenses in License Manager in the License Manager User Guide. "

```
        }
    },
    "com.amazonaws.licensemanager#OrganizationConfiguration": {
        "type": "structure",
        "members": {
            "EnableIntegration": {
                "target": "com.amazonaws.licensemanager#Boolean",
                "traits": {
                    "smithy.api#default": false,
                    "smithy.api#documentation":
"<p>Enables Organizations integration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Configuration information for Organizations.</p>"
        }
    },
    "com.amazonaws.licensemanager#PrincipalArnList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Arn"
        },
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max": 1
            }
        }
    },
    "com.amazonaws.licensemanager#ProductInformation": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type. The
possible values are <code>SSM_MANAGED</code> | <code>RDS</code>.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductInformationFilterList": {
                "target": "com.amazonaws.licensemanager#ProductInformationFilterList",
                "traits": {
                    "smithy.api#documentation": "<p>A Product information filter consists of a
<code>ProductInformationFilterComparator</code> which is a logical operator, a
<code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a
```

<code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when the resource type \n is <code>SSM_MANAGED</code>: \n
\n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n Logical operator is <code>EQUALS</code>. \n
\n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n <code>diagnostic pack sqlt</code> | \n
<code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n
\n ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information for a license configuration. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
"type": "structure",
"members": {
"ProductInformationFilterName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Filter name. ",

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            "smithy.api#required": {}
          }
        },
        "ProductInformationFilterValue": {
          "target": "com.amazonaws.licensemanager#StringList",

      "traits": {
            "smithy.api#documentation": "<p>Filter value.</p>"
          }
        },
        "ProductInformationFilterComparator": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Logical operator.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Describes product information filters.</p>"
      }
    },
    "com.amazonaws.licensemanager#ProductInformationFilterList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#ProductInformationFilter"
      }
    },
    "com.amazonaws.licensemanager#ProductInformationList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#ProductInformation"
      }
    },
    "com.amazonaws.licensemanager#ProvisionalConfiguration": {
      "type": "structure",
      "members": {
        "MaxTimeToLiveInMinutes": {
          "target": "com.amazonaws.licensemanager#BoxInteger",
          "traits": {
            "smithy.api#documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
      }
```

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    },
    "com.amazonaws.licensemanager#RateLimitExceededException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "RateLimitExceeded",
                "httpResponseCode": 429
            },
            "smithy.api#documentation": "<p>Too many requests have been submitted. Try again after a brief
wait.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 429
        }
    },
    "com.amazonaws.licensemanager#ReceivedMetadata": {
        "type": "structure",
        "members": {
            "ReceivedStatus": {
                "target": "com.amazonaws.licensemanager#ReceivedStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Received status.</p>"
                }
            },
            "ReceivedStatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>Received
status reason.</p>"
                }
            },
            "AllowedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed operations.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Metadata associated with received licenses and grants.</p>"
        }
    },
    "com.amazonaws.licensemanager#ReceivedStatus": {
        "type": "enum",
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        "members": {
          "PENDING_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "PENDING_WORKFLOW"
            }
          },
          "PENDING_ACCEPT": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue":
"PENDING_ACCEPT"
            }
          },
          "REJECTED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "REJECTED"
            }
          },
          "ACTIVE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ACTIVE"
            }
          },
          "FAILED_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
          },
          "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DELETED"
            }
          },
          "DISABLED": {
            "target": "smithy.api#Unit",
             "traits": {
              "smithy.api#enumValue": "DISABLED"
            }
          },
          "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "WORKFLOW_COMPLETED"
```

```
                }
            }
        }
    },
    "com.amazonaws.licensemanager#RedirectException": {
        "type": "structure",
        "members": {
            "Location": {
                "target": "com.amazonaws.licensemanager#Location",
                "traits": {
                    "smithy.api#httpHeader": "Location"
                }
            },
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
             "smithy.api#error": "client",
            "smithy.api#httpError": 308
        }
    },
    "com.amazonaws.licensemanager#RejectGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#RejectGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#RejectGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
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            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}

}
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
```

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        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#RenewType":
{
        "type": "enum",
        "members": {
            "NONE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "None"
                }
            },
            "WEEKLY": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Weekly"
                }
            },
            "MONTHLY": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Monthly"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ReportContext": {
        "type": "structure",
        "members": {
            "licenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {

        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration that this
generator reports on.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details of the license configuration that this generator reports on.</p>"
        }
    },
    "com.amazonaws.licensemanager#ReportFrequency": {
        "type": "structure",
```

"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "
}
},
"period": {
"target": "com.amazonaws.licensemanager#ReportFrequencyType",

"traits": {
"smithy.api#documentation": " Time period between each report. The period can be daily, weekly, or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"com.amazonaws.licensemanager#ReportFrequencyType": {
"type": "enum",
"members": {
"DAY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DAY"
}
},
"WEEK": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "WEEK"
}
},
"MONTH": {
"target": "smithy.api#Unit",
"traits":
{
"smithy.api#enumValue": "MONTH"
}
}
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
"type": "structure",
"members": {

"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the report generator. "
}
},
"ReportType": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports that are generated. "
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " License configuration type for this generator. "
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. "
}
},
"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}
},
"LastRunFailureReason": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Failure message for the last report generation attempt. "
}
},
"LastReportGenerationTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the last report was generated at. "

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            }
        },
        "ReportCreatorAccount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The Amazon Web Services account ID used to create the report generator.</p>"
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",

      "traits": {
                "smithy.api#documentation": "<p>Description of the report generator.</p>"
            }
        },
        "S3Location": {
            "target": "com.amazonaws.licensemanager#S3Location",
            "traits": {
                "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published to.</p>"
            }
        },
        "CreateTime": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Time the report was created.</p>"
            }
        },
        "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
                "smithy.api#documentation": "<p>Tags associated with the report generator.</p>"
            }

    }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describe the details of a report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#ReportGeneratorList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ReportGenerator"
        }
    },
    "com.amazonaws.licensemanager#ReportGeneratorName": {
```

```
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 1,
            "max": 100
          }
        }
      },
      "com.amazonaws.licensemanager#ReportType": {
        "type": "enum",
        "members": {
          "LICENSE_CONFIGURATION_SUMMARY_REPORT": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "LicenseConfigurationSummaryReport"
            }

      },
          "LICENSE_CONFIGURATION_USAGE_REPORT": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "LicenseConfigurationUsageReport"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ReportTypeList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#ReportType"
        }
      },
      "com.amazonaws.licensemanager#ResourceInventory": {
        "type": "structure",
        "members": {
          "ResourceId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>ID of the resource.</p>"
            }
          },
          "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits":
{
              "smithy.api#documentation": "<p>Type of resource.</p>"
            }
          },
```

"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"Platform": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Platform of the resource. "
}
},
"PlatformVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Platform version of the resource in the inventory. "
}
},
"ResourceOwningAccountId":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a resource. "
}
},
"com.amazonaws.licensemanager#ResourceInventoryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ResourceInventory"
}
},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ResourceLimitExceeded",

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        "httpResponseCode": 400
      },
      "smithy.api#documentation": "<p>Your resource limits have been exceeded.</p>",
      "smithy.api#error": "client",
      "smithy.api#httpError": 400
    }
  },
  "com.amazonaws.licensemanager#ResourceNotFoundException": {
    "type": "structure",
    "members": {
      "Message": {
        "target": "com.amazonaws.licensemanager#Message"
      }
    },
    "traits": {
      "aws.protocols#awsQueryError": {
        "code": "InvalidResource.NotFound",
        "httpResponseCode": 400
      },
      "smithy.api#documentation": "<p>The resource cannot be found.</p>",
      "smithy.api#error": "client",
      "smithy.api#httpError": 400
    }
  },
  "com.amazonaws.licensemanager#ResourceType": {
    "type": "enum",
    "members": {
      "EC2_INSTANCE": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "EC2_INSTANCE"
        }
      },
      "EC2_HOST": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "EC2_HOST"
        }
      },
      "EC2_AMI": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "EC2_AMI"
        }
      },
      "RDS": {
        "target": "smithy.api#Unit",
        "traits": {
```

"smithy.api#enumValue": "RDS"
}
},
"SYSTEMS_MANAGER_MANAGED_INSTANCE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
}
}
}
},
"com.amazonaws.licensemanager#S3Location": {
"type": "structure",
"members": {
"bucket": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the S3 bucket reports are published to. "
}
},
"keyPrefix": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Prefix of the S3 bucket reports are published to. "
}
}
},
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InternalError",
"httpResponseCode": 500
},
"smithy.api#documentation": " The server experienced an internal error. Try again. ",
"smithy.api#error": "server",
"smithy.api#httpError": 500
}

```
    },
    "com.amazonaws.licensemanager#SignedToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 4096
            }
        }
    },
    "com.amazonaws.licensemanager#StatusReasonMessage": {
        "type": "string",
        "traits":
{
            "smithy.api#length": {
                "min": 0,
                "max": 400
            },
            "smithy.api#pattern": "^[\\s\\S]+$"
        }
    },
    "com.amazonaws.licensemanager#String": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#Tag": {
        "type": "structure",
        "members": {
            "Key": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag key.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Tag value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
```

```
        }
    },
    "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#TagList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Tag"
        }
    },
    "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
            {
                "target":
"com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
```

"target": "com.amazonaws.licensemanager#String",
"traits":
{
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " One or more tags. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#TagResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#TokenData": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. "
}
},
"TokenType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Type of token generated. The supported value is <code>REFRESH_TOKEN</code>. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}

```
            },
            "ExpirationTime": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Token expiration time, in ISO8601-UTC
 format.</p>"
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Data specified by the caller.</p>"
                }
            },
            "RoleArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the roles included in the
token.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token status. The possible values are
<code>AVAILABLE</code> and <code>DELETED</code>.</p>"
                }
            }
        },
        "traits": {

            "smithy.api#documentation": "<p>Describes a token.</p>"
        }
    },
    "com.amazonaws.licensemanager#TokenList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#TokenData"
        }
    },
    "com.amazonaws.licensemanager#TokenString": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 4096
            },
            "smithy.api#pattern": "^\\S+$"
```

```
        }
    },
    "com.amazonaws.licensemanager#TokenType": {
        "type": "enum",
        "members": {
            "REFRESH_TOKEN": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "REFRESH_TOKEN"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException":
{
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The digital signature method is unsupported. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#UntagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UntagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UntagResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Removes the specified tags from the specified license
configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#UntagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "TagKeys": {
                "target": "com.amazonaws.licensemanager#TagKeyList",
                "traits": {
                    "smithy.api#documentation": "<p>Keys identifying the tags to remove.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#UntagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
        },
        "output": {
```

"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Modifies the attributes of an existing license configuration. "
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"LicenseConfigurationStatus": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
"traits": {
"smithy.api#documentation": " New status of the license configuration. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " New license rule. The only rule that you can add after you create a license\n configuration is licenseAffinityToHost. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " New number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
},
"traits": {
"smithy.api#input": {}
}

```
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates a report generator.</p>\n        <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest":
```

```
{
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to
update.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportGeneratorName": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>",
                    "smithy.api#required": {}
                }
            },
            "Type": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation":
 "<p>Type of reports to generate. The following report types are supported:</p>\n        <ul>\n            <li>\n
<p>License configuration report - Reports the number and details of consumed licenses for a license
configuration.</p>\n            </li>\n            <li>\n                <p>Resource report - Reports the tracked licenses and
resource consumption for a license configuration.</p>\n            </li>\n        </ul>",
                    "smithy.api#required": {}
                }
            },
            "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
                    "smithy.api#documentation": "<p>The report context.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportFrequency": {
                "target": "com.amazonaws.licensemanager#ReportFrequency",
                "traits":
 {
                    "smithy.api#documentation": "<p>Frequency by which reports are generated.</p>",
                    "smithy.api#required": {}
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientRequestToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
```

idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},

{
"target": "com.amazonaws.licensemanager#InvalidResourceStateException"
},
{
"target": "com.amazonaws.licensemanager#LicenseUsageException"
},

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            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p>\n        <p>You can update the license specifications of AMIs, instances, and
hosts.\n        You cannot update the license specifications for launch templates and CloudFormation templates, \n
 as they send license configurations to the operation that creates the resource.</p>"
        }
    },

    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "AddLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
                }
            },
            "RemoveLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation":
 "<p>ARNs of the license configurations to remove.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
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"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Updates License Manager settings for the current Region. "
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
"type": "structure",
"members": {
"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon S3 bucket where the License
Manager information is stored. "
}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "

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                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Enables integration with Organizations for cross-account
discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Activates cross-account discovery.</p>"

        }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#UsageOperation": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            }
        }
    },
    "com.amazonaws.licensemanager#ValidationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
```

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        "smithy.api#error": "client",
            "smithy.api#httpError": 400
          }
      }
   }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version
 of the license.
 //
```

```
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack,
 options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if
 err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
```

```
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
```

1.4048 x-mod 0.20.0

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1.4049 grub2-unsigned 2.06-2ubuntu3

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1.4050 golang-genproto 0.0.0-20231211222908-989df2bf70f3

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1.4051 protobuf-go 1.35.2

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1.4052 winston/node_modules/readable-stream 3.6.0

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1.4053 jsonpatch 1.32

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1.4054 x-term 0.8.0

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1.4055 ssh-agent 0.3.0

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1.4056 gorilla-mux 1.8.0

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1.4057 google-cloud-go-trace 1.10.1

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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
```

```
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete             []gax.CallOption
 Get                []gax.CallOption
 GetIamPolicy       []gax.CallOption
 Insert             []gax.CallOption
 List               []gax.CallOption
 SetIamPolicy       []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier:
 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
```

```
  },
  GetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  SetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  TestIamPermissions:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
 }
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
```

```
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest,
 ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
```

```
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy
 gets the access control policy for a resource. May be empty if no such policy or resource exists. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like
 Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective
image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party
partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution
 This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
```

```
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
//
 The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
```

```
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
//
 Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
```

```
if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

params := url.Values{}
if req != nil && req.RequestId != nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

headers
:= buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
```

```
  return err
 }

 return nil
}, opts...)
if
e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts
 = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers
```

```
  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource.
 May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party
partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
```

```
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers
 := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if
 e != nil {
  return nil, e
 }
 return resp, nil
}
```

```
// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v", "project",
 url.QueryEscape(req.GetProject())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
```

```
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err !=
nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true,
 DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
```

```
 req.MaxResults = proto.Uint32(math.MaxInt32)
} else if pageSize != 0 {
 req.MaxResults = proto.Uint32(uint32(pageSize))
}
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, "", err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.Filter != nil {
 params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
}
if req != nil && req.MaxResults != nil {
 params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
 params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
 params.Add("pageToken", fmt.Sprintf("%v",
req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
 params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()
```

```
  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return
err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial:
 true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
```

```
 return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path
 != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
```

```
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
 error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e
 := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
```

```
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
 items    []*computepb.License
 pageInfo *iterator.PageInfo
 nextFunc func() error

 // Response is the raw response for the current page.
 // It
 must be cast to the RPC response type.
 // Calling Next() or InternalFetch() updates this value.
 Response interface{}

 // InternalFetch is for use by the Google Cloud Libraries only.
 // It is not part of the stable interface of this package.
 //
 // InternalFetch returns results from a single call to the underlying RPC.
 // The number of results is no greater than pageSize.
```

```
 // If there are no more results, nextPageToken is empty and err is nil.
 InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
 return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
 var item *computepb.License
 if
 err := it.nextFunc(); err != nil {
  return item, err
 }
 item = it.items[0]
 it.items = it.items[1:]
 return item, nil
}

func (it *LicenseIterator) bufLen() int {
 return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
 b := it.items
 it.items = nil
 return b
}
```

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```
// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
```

```
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
```

```
 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
```

```
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
```

```
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
 }
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range
 values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

```
func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown
 in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
```

```
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get              []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
 return &LicenseCodesCallOptions{
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google
 Compute Engine API.
type internalLicenseCodesClient interface {
 Close() error
```

```
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func
 (c *LicenseCodesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
```

```
...gax.CallOption)
 (*computepb.LicenseCode, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions
}

//
 NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()
```

```
 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return
 a specified license code. License codes are mirrored across all projects that have permissions to read the License
Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
```

```
req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
```

```
// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by
 third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()
```

```
  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
```

```
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
//
- It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

// TODO: Use client.
_ = c
}

func ExampleLicenseCodesClient_Get() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseCodeRequest{
 // TODO: Fill request
struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
```

```
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseCodeRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
}
resp,
err := c.TestIamPermissions(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

1.4058 v1-gonum 0.12.0

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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This software package is based on the paper
I. Bogaert, "Iteration-Free Computation of Gauss-Legendre Quadrature Nodes and Weights",
to be published in the SIAM Journal of Scientific Computing.

The main features of this software are:
- Speed: due to the simple formulas and the O(1) complexity computation of individual Gauss-Legendre quadrature nodes and weights. This makes it compatible with parallel computing paradigms.
- Accuracy: the error on the nodes and weights is within a few ulps (see the paper for details).

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A C-program for MT19937-64 (2004/9/29 version).
Coded by Takuji Nishimura and Makoto Matsumoto.

This is a 64-bit version of Mersenne Twister pseudorandom number
generator.

Before using, initialize the state by using init_genrand64(seed)
or init_by_array64(init_key, key_length).

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1.4059 jsonpatch 5.6.0+incompatible

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1.4060 pyvmomi 8.0.3.0.1

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class NotEnoughLicenses(RuntimeFault):
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from pyVmomi.vmodl.fault import NotEnoughLicenses

class VramLimitLicense(NotEnoughLicenses):
  limit: int
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from datetime import datetime

from pyVmomi.vmodl.fault import NotEnoughLicenses

class ExpiredFeatureLicense(NotEnoughLicenses):
  feature: str
  count: int
  expirationDate: datetime
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from pyVmomi.vim.fault import VimFault

class InvalidLicense(VimFault):
  licenseContent: str
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from pyVmomi.vim.fault import ExpiredFeatureLicense

class ExpiredAddonLicense(ExpiredFeatureLicense):
  pass
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from pyVmomi.vim.fault import ExpiredFeatureLicense

class ExpiredEditionLicense(ExpiredFeatureLicense):
  pass
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from pyVmomi.vmodl.fault import NotEnoughLicenses

class InvalidEditionLicense(NotEnoughLicenses):
  feature: str
```

1.4061 otel-exporters-otlp-otlptrace-otlptracehttp 1.29.0

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1.4062 v1-gonum 0.15.1

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software is freely granted, provided that this notice
is preserved.
A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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This software package is based on the paper
I. Bogaert, "Iteration-Free Computation of Gauss-Legendre Quadrature Nodes and Weights",
to be published in the SIAM Journal of Scientific Computing.

The main features of this software are:
- Speed: due to the simple formulas and the O(1) complexity computation of individual Gauss-Legendre quadrature nodes and weights. This makes it compatible with parallel computing paradigms.
- Accuracy: the error on the nodes and weights is within a few ulps (see the paper for details).

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OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
A C-program for MT19937-64 (2004/9/29 version).
Coded by Takuji Nishimura and Makoto Matsumoto.

This is a 64-bit version of Mersenne Twister pseudorandom number generator.

Before using, initialize the state by using init_genrand64(seed) or init_by_array64(init_key, key_length).

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``Mersenne Twister: a 623-dimensionally equidistributed uniform pseudorandom number generator"
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1.4064 google-cloud-go-iam 1.1.13

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
```

```
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
```

```
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
```

```
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*computepb.LicensesListResponse)
 }
```

```
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
```

```
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}
```

```
func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
```

```
// TODO: Use resp.
_ = resp
}
```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.34.2
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
```

```
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
```

```
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
```

```
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
```

```
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
```

```
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
```

0x0b, 0x67,
0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
0x64,
0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
0x72, 0x6f, 0x74, 0x6f, 0x33,

```
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []any{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func
 file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
```

```
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
type x struct{}
out := protoimpl.TypeBuilder{
 File: protoimpl.DescBuilder{
  GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
  RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
  NumEnums:      2,
  NumMessages:   1,
  NumExtensions: 0,
  NumServices:   0,
 },
 GoTypes:           file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
 DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
 EnumInfos:
        file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
 MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
// Copyright 2024 Google LLC
//
// Licensed under the Apache License, Version 2.0 (the "License");
// you may not use this file except in compliance with the License.
// You may obtain a copy of the License at
//
//     https://www.apache.org/licenses/LICENSE-2.0
//
// Unless required by applicable law or agreed to in writing, software
// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute
```

```
import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete             []gax.CallOption
 Get                []gax.CallOption
 GetIamPolicy       []gax.CallOption
 Insert             []gax.CallOption
 List               []gax.CallOption
 SetIamPolicy       []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
```

```
    },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
   }),
  },
  SetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000
 * time.Millisecond),
  },
 }
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
```

```
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
```

```
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}
```

```
// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
```

```
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient
 = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}
```

```
// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
```

```
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf,
err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()),
 "license", url.QueryEscape(req.GetLicense()))}
```

```
 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err
 := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
```

```
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and
 context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp);
 err != nil {
   return err
```

```
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId",
 fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

 hds = append(c.xGoogHeaders, hds...)
```

```
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err !=
nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
```

```
 return op, nil
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient)
 List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
  }
  if req != nil && req.MaxResults != nil {
   params.Add("maxResults",
fmt.Sprintf("%v", req.GetMaxResults()))
  }
  if req != nil && req.OrderBy != nil {
   params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
  }
  if req != nil && req.PageToken != nil {
   params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
  }
  if req != nil && req.ReturnPartialSuccess != nil {
   params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
  }

  baseUrl.RawQuery = params.Encode()
```

```
 // Build HTTP headers from client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return
err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
```

```
  it.items = append(it.items, items...)
  return nextPageToken, nil
 }

 it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
 it.pageInfo.MaxSize = int(req.GetMaxResults())
 it.pageInfo.Token = req.GetPageToken()

 return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only
 by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
```

```
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on
 the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
```

```
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type",
 "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return
```

```
 nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
```

1.4065 google-cloud-go-trace 1.10.12

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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
```

```
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
```

```
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
```

```
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()
```

```
req := &computepb.ListLicensesRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
 resp, err := it.Next()
 if err == iterator.Done {
  break
 }
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp

 // If you need to access the underlying RPC response,
 // you can do so by casting the `Response` as below.
 // Otherwise, remove this line. Only populated after
 // first call to Next(). Not safe for concurrent access.
 _ = it.Response.(*computepb.LicensesListResponse)
}
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
```

```
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"
```

```
 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

```
func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
// protoc-gen-go v1.34.2
// protoc   v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (

```
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)
```

```
func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
```

```
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":           1,
  "WRITER":          2,
  "READER":          3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
```

```
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}
```

```
func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}
```

```
var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
 0x0b, 0x67,
 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
 0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
 0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
```

```
 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
 0x64,
 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
 0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []any{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
```

```
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func
 file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:           file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:
         file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
```

```
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
// Copyright 2024 Google LLC
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// you may not use this file except in compliance with the License.
// You may obtain a copy of the License at
//
//     https://www.apache.org/licenses/LICENSE-2.0
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// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
```

```
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
```

```
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  SetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000
 * time.Millisecond),
  },
 }
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}
```

```
// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
```

```
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
```

```
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
```

```
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient
 = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
```

```
hds := []string{"x-goog-request-params",
fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
url.QueryEscape(req.GetLicense()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf,
err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
```

```
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()),
 "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
```

```
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err
 := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and
 context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
```

```
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp);
 err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
```

```
jsonReq, err := m.Marshal(body)
if err != nil {
 return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.RequestId != nil {
 params.Add("requestId",
fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err !=
nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
```

```
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient)
 List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
```

```
 return nil, "", err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.Filter != nil {
 params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
}
if req != nil && req.MaxResults != nil {
 params.Add("maxResults",
fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
 params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
 params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
 params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return
err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }
```

```
  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only
 by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
```

```
 return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
```

```
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on
 the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type",
 "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
```

```
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return
nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}
```

1.4066 golang-genproto 0.0.0-20240823204242-4ba0660f739c

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1.4067 contrib-propagators-b3 1.29.0

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1.4068 go-ovh 1.6.0

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1.4069 lunes 0.1.0

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```
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{{- range $i, $dep := . }}
{{ $dep.Name }},{{ $dep.URL }},{{ $dep.Version | canonicalVersion }},{{ $dep.Version | revision }},{{
$dep.LicenceType }},
{{- end -}}
{{- end -}}

name,url,version,revision,license,sourceURL{{ template "depInfo" .Direct }}{{ template "depInfo" .Indirect }}
{{- define "depInfo" -}}
{{- range $i, $dep := . }}
{{ "-" | line }}
Dependency : {{ $dep.Name }}
Version: {{ $dep.Version }}
Licence type (autodetected): {{ $dep.LicenceType }}
{{ "-" | line }}

{{ $dep | licenceText }}
{{ end }}
{{- end -}}

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```

```
{{ "=" | line }}

{{ template "depInfo" .Direct }}

{{ if .Indirect }}
{{ "=" | line }}
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{{ template "depInfo" .Indirect -}}
{{- end}}
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package mage

import (
 "fmt"
 "os"

 "github.com/magefile/mage/mg"

 "github.com/elastic/lunes/dev-tools/mage/gotool"
)

func GenerateNotice(overrides, rules, noticeTemplate string) error {
 mg.Deps(InstallGoNoticeGen,
 Deps.CheckModuleTidy)

 err := gotool.Mod.Download(gotool.Download.All())
 if err != nil {
  return fmt.Errorf("error while downloading dependencies: %w", err)
 }

 // Ensure the go.mod file is left unchanged after go mod download all runs.
```

```
// go mod download will modify go.sum in a way that conflicts with go mod tidy.
// https://github.com/golang/go/issues/43994#issuecomment-770053099
defer gotool.Mod.Tidy() //nolint:errcheck // No value in handling this error.

out, _ := gotool.ListDepsForNotice()
depsFile, _ := os.CreateTemp("", "depsout")
defer os.Remove(depsFile.Name())
_, _ = depsFile.Write([]byte(out))
depsFile.Close()

generator := gotool.NoticeGenerator
return generator(
 generator.Dependencies(depsFile.Name()),
 generator.IncludeIndirect(),
 generator.Overrides(overrides),
 generator.Rules(rules),
 generator.NoticeTemplate(noticeTemplate),
 generator.NoticeOutput("NOTICE.txt"),
)
}
{
 "allowlist": [
   "Apache-2.0",
   "BSD",
   "BSD-2-Clause",
   "BSD-2-Clause-FreeBSD",
   "BSD-3-Clause",
   "CC0-1.0",
   "Elastic",
   "ISC",
   "MIT",
   "MPL-2.0",
   "Public Domain",
   "Zlib"
 ],
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Dependency : github.com/magefile/mage
Version: v1.15.0
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Version: v0.6.1
Licence type (autodetected): Apache-2.0

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Version: v3.0.0-20200313102051-9f266ea9e77c
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1.4070 s2a-go 0.1.8

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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1.4075 smetrics 0.0.0-20240521201337-686a1a2994c1

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1.4077 otel-exporters-otlp-otlptrace-otlptracegrpc 1.27.0

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1.4078 regexp 0.0.0-20221005093135-b4c2bcb0a4b6

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1.4079 otel-trace 1.11.2

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lib/erl/src/Makefile.am

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components:

```
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```

For the lib/nodejs/lib/thrift/json_parse.js:

```
/*
   json_parse.js
   2015-05-02
   Public Domain.
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*/
```

(By Douglas Crockford <douglas@crockford.com>)

For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
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*/
```

For lib/py/compat/win32/stdint.h

// ISO C9x compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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//
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 in t_html_generator.h

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1.4080 genproto-googleapis-rpc 0.0.0-20230124163310-31e0e69b6fc2

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1.4081 otel-metric 0.34.0

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1.4083 contrib-instrumentation-net-http-otelhttp 0.37.0

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1.4088 exporter-toolkit 0.10.0

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1.4089 aws-sdk-go-v2-internal-ini 1.3.8

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```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
```

```
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
```

```
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
 nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
```

```
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}
```

```
type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
```

```
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
```

```
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
```

```
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack,
 options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil
 {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]
```

```
jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
     - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
       with:
         python-version: ${{ matrix.python-version }}
     # ScanCode
     - name: Self-configure scancode
       working-directory: ./scancode-toolkit
       run: ./scancode --help
     - name: Run Scan code on target
       run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
     - name: Run Scan code on pr ref
       run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
     # compare
     - name: License test
       run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
```

```
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package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
```

```
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {
```

```
 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
```

```
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
 middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
```

```
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
```

```
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}
```

AWS SDK for Go

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```
{
   "smithy": "1.0",
   "metadata": {
       "suppressions": [
           {
               "id": "HttpMethodSemantics",
               "namespace": "*"
           },
           {
               "id": "HttpResponseCodeSemantics",
               "namespace": "*"
           },
           {
               "id": "PaginatedTrait",
               "namespace": "*"
           },
           {
               "id": "HttpHeaderTrait",
               "namespace": "*"
           },
           {
               "id": "HttpUriConflict",
               "namespace": "*"
           },
           {
               "id": "Service",
               "namespace": "*"
```

```
        }
    ]
},
"shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
        "type": "service",
        "version": "2018-08-01",
        "operations": [
            {
                "target": "com.amazonaws.licensemanager#AcceptGrant"
            },

 {
                "target": "com.amazonaws.licensemanager#CheckInLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CheckoutLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateGrant"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateGrantVersion"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
             },
            {
                "target": "com.amazonaws.licensemanager#CreateLicenseVersion"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateToken"
            },
            {
                "target": "com.amazonaws.licensemanager#DeleteGrant"
            },
```

```
        {
          "target": "com.amazonaws.licensemanager#DeleteLicense"
        },
        {
          "target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
        },
        {
          "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
        },
        {
          "target": "com.amazonaws.licensemanager#DeleteToken"
        },
        {
          "target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

      },
        {
          "target": "com.amazonaws.licensemanager#GetAccessToken"
        },
        {
          "target": "com.amazonaws.licensemanager#GetGrant"
        },
        {
          "target": "com.amazonaws.licensemanager#GetLicense"
        },
        {
          "target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
        },
        {
          "target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
        },
        {
          "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
        },
        {
          "target": "com.amazonaws.licensemanager#GetLicenseUsage"
        },
        {
          "target": "com.amazonaws.licensemanager#GetServiceSettings"
        },
        {
          "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
        },
        {
          "target": "com.amazonaws.licensemanager#ListDistributedGrants"
        },
        {
          "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
```

},
{
"target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
"target": "com.amazonaws.licensemanager#ListLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

"target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListResourceInventory"
},
{
"target": "com.amazonaws.licensemanager#ListTagsForResource"
},
{
"target": "com.amazonaws.licensemanager#ListTokens"
},
{
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#RejectGrant"
},
{
"target": "com.amazonaws.licensemanager#TagResource"
},
{
"target": "com.amazonaws.licensemanager#UntagResource"
},
{

"target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateServiceSettings"
}
],
"traits": {
"aws.api#service": {
"sdkId": "License Manager",
"arnNamespace": "license-manager",
"cloudFormationName": "LicenseManager",
"cloudTrailEventSource": "licensemanager.amazonaws.com",
"endpointPrefix":
"license-manager"
},
"aws.auth#sigv4": {
"name": "license-manager"
},
"aws.protocols#awsJson1_1": {},
"smithy.api#documentation": " License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers. ",
"smithy.api#title": "AWS License Manager",
"smithy.api#xmlNamespace": {
"uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
}
}
},
"com.amazonaws.licensemanager#AcceptGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#AcceptGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#AcceptGrantResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantRequest":
{
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant
```

status. "
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": " Grant version. "
            }
        }
    }
},
"com.amazonaws.licensemanager#AccessDeniedException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "ServiceAccessDenied",
            "httpResponseCode": 401
        },
        "smithy.api#documentation": " Access to resource denied. ",
        "smithy.api#error": "client",
        "smithy.api#httpError": 401
    }
},
"com.amazonaws.licensemanager#AllowedOperation":
{
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "CreateGrant",
                "name": "CREATE_GRANT"
            },
            {
                "value": "CheckoutLicense",
                "name": "CHECKOUT_LICENSE"
            },
            {
                "value": "CheckoutBorrowLicense",
                "name": "CHECKOUT_BORROW_LICENSE"
            },
            {
                "value": "CheckInLicense",
                "name": "CHECK_IN_LICENSE"

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            },
            {
                "value": "ExtendConsumptionLicense",
                "name": "EXTEND_CONSUMPTION_LICENSE"
            },
            {
                "value": "ListPurchasedLicenses",
                "name": "LIST_PURCHASED_LICENSES"
            },
            {
                "value": "CreateToken",
                "name": "CREATE_TOKEN"
            }
        ]
    }
},
"com.amazonaws.licensemanager#AllowedOperationList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#AllowedOperation"
    },
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 7
        }
    }
},
"com.amazonaws.licensemanager#Arn": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 2048
        },
        "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
    }
},
"com.amazonaws.licensemanager#ArnList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Arn"
    }
},
"com.amazonaws.licensemanager#AuthorizationException": {
    "type": "structure",
    "members": {
```

"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "AuthorizationFailure",
"httpResponseCode": 403
},
"smithy.api#documentation": " The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n policy associated with this account. ",
"smithy.api#error": "client",
"smithy.api#httpError": 403
}
},
"com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
"type": "structure",
"members": {
"LastRunTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time that automated discovery last ran. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes automated discovery. "
}
},
"com.amazonaws.licensemanager#Boolean": {
"type": "boolean"
},
"com.amazonaws.licensemanager#BorrowConfiguration": {
"type": "structure",
"members": {
"AllowEarlyCheckIn": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether early check-ins are allowed. ",
"smithy.api#required": {}
}
},
"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the borrow configuration, in minutes. ",
"smithy.api#required": {}

```
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
    }
},
"com.amazonaws.licensemanager#BoxBoolean": {
    "type": "boolean",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#BoxInteger": {
    "type": "integer",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#BoxLong": {

"type": "long",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#CheckInLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
```

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks in the specified license. Check in a license when it is no longer in use. "
}
},
"com.amazonaws.licensemanager#CheckInLicenseRequest": {
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",

"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
}
}
},
"com.amazonaws.licensemanager#CheckInLicenseResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks out the specified license for offline use. "
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The license must

use the borrow consumption configuration. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. Partial checkouts are not supported. ",
"smithy.api#required": {}
}
},
"DigitalSignatureMethod": {
"target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
"traits": {
"smithy.api#documentation": " Digital signature method. The possible value is JSON Web Signature (JWS) algorithm PS384.\n For more information, see RFC 7518 Digital Signature with RSASSA-PSS. ",
"smithy.api#required": {}
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",

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"traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
            }
        },
        "EntitlementsAllowed": {
            "target": "com.amazonaws.licensemanager#EntitlementDataList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
            }
        },
        "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        },
        "SignedToken": {

       "target": "com.amazonaws.licensemanager#SignedToken",
            "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
            }
        },
        "IssuedAt": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
            }
        },
        "Expiration": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
            }
        },
        "CheckoutMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
                "smithy.api#documentation":
"<p>Information about constraints.</p>"
            }
```

```
            }
        }
    },
    "com.amazonaws.licensemanager#CheckoutLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license.</p>"
        }
    },
```

"com.amazonaws.licensemanager#CheckoutLicenseRequest": {
"type": "structure",
"members": {
"ProductSKU":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. ",
"smithy.api#required": {}
}
},
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. ",
"smithy.api#required": {}
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Key fingerprint identifying the license. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",

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    "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        }
    }
  },
  "com.amazonaws.licensemanager#CheckoutLicenseResponse": {
    "type": "structure",
    "members": {
      "CheckoutType": {
        "target": "com.amazonaws.licensemanager#CheckoutType",
        "traits": {
          "smithy.api#documentation": "<p>Checkout type.</p>"
        }
      },
      "LicenseConsumptionToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>License consumption token.</p>"
        }
      },
      "EntitlementsAllowed": {
        "target": "com.amazonaws.licensemanager#EntitlementDataList",
        "traits": {
          "smithy.api#documentation":
"<p>Allowed license entitlements.</p>"
        }
      },
      "SignedToken": {
        "target": "com.amazonaws.licensemanager#SignedToken",
        "traits": {
          "smithy.api#documentation": "<p>Signed token.</p>"
        }
      },
      "NodeId": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Node ID.</p>"
        }
      },
      "IssuedAt": {
        "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
          "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
        }
      },
      "Expiration": {
```

"target": "com.amazonaws.licensemanager#ISO8601DateTime",

"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the checkout license. "
}
}
}
},
"com.amazonaws.licensemanager#CheckoutType": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "PROVISIONAL",
"name": "PROVISIONAL"
},
{
"value": "PERPETUAL",
"name": "PERPETUAL"
}
]
}
},
"com.amazonaws.licensemanager#ClientRequestToken":
{
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 36
}
}
},
"com.amazonaws.licensemanager#ClientToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^\\S+$"
}

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    },
    "com.amazonaws.licensemanager#ConflictException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ConflictException",
                "httpResponseCode": 409
            },
            "smithy.api#documentation": "<p>There
was a conflict processing the request. Try your request again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 409
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
                }
            },
            "ConsumedLicenses": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about license consumption.</p>"
         }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
        }
    },
    "com.amazonaws.licensemanager#ConsumptionConfiguration": {
        "type": "structure",
        "members": {
```

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        "RenewType": {
            "target": "com.amazonaws.licensemanager#RenewType",
            "traits": {
                "smithy.api#documentation": "<p>Renewal frequency.</p>"
            }
        },
        "ProvisionalConfiguration": {
            "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
            }
        },
        "BorrowConfiguration": {

            "target": "com.amazonaws.licensemanager#BorrowConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
    }
},
"com.amazonaws.licensemanager#CreateGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },

    {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of
license entitlements with specific Amazon Web Services accounts.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantRequest": {
        "type": "structure",
        "members": {

  "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },

        "Principals": {
                "target": "com.amazonaws.licensemanager#PrincipalArnList",
                "traits": {
                    "smithy.api#documentation": "<p>The grant principals.</p>",
                    "smithy.api#required": {}
                }
            },
            "HomeRegion": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CreateGrantResponse":
{
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
}
},
"com.amazonaws.licensemanager#CreateGrantVersion": {
"type": "operation",
"input": {

"target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a new version of the specified grant. "
}
},
"com.amazonaws.licensemanager#CreateGrantVersionRequest": {
"type": "structure",
"members": {
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Grant name. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",

"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the grant. "
}
}
}
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant
status. "
}
},
"Version": {

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            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>New version of the grant.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CreateLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a license.</p>"
    }
},
"com.amazonaws.licensemanager#CreateLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
    },
    "output": {
```

"target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Creates a license configuration. \n A license configuration is an abstraction of a customer license
agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a \n license must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {

"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension used to track the license inventory. ",
"smithy.api#required": {}
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {

"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows. \n \n \n \n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n <code>licenseAffinityToHost</code> |\n <code>maximumCores</code> | <code>minimumCores</code>\n \n \n \n \n <code>Instances</code> dimension: <code>allowedTenancy</code> | \n <code>maximumCores</code> | <code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n \n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n <code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code>\n \n \n \n \n <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n <code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the license configuration. "
}

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            },
            "DisassociateWhenNotFound": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
                }
            },
            "ProductInformationList": {
                "target": "com.amazonaws.licensemanager#ProductInformationList",
                "traits":
{
                    "smithy.api#documentation": "<p>Product information.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest":
 {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting
from. \n        For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the AWS
CLI</a> in the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            },
            "DestinationLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting to.
For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the AWS
CLI</a> in the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
        "type": "structure",
```

```
    "members": {
        "LicenseConversionTaskId": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
            "traits": {
                "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a report generator.</p>"
    }
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
```

"type": "structure",
"members": {
"ReportGeneratorName": {
"target":
"com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types an be generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}
}
},

"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " Defines the type of license configuration the report generator tracks. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits":
{
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the new report generator. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseRequest": {
"type": "structure",
"members": {
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. ",
"smithy.api#required": {}
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. ",
"smithy.api#required": {}
}

},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits": {
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region for the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation":
" Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {

"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {

"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}

}
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
},

```
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License name.</p>",
                "smithy.api#required": {}
            }
        },
        "ProductName": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits": {
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation":
" Home Region of the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",

"smithy.api#required": {}
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target":
"com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. "
}
},

"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New version of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}

```
            }
        }
    },
    "com.amazonaws.licensemanager#CreateToken": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateTokenResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },

   {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a long-lived token.</p>\n         <p>A refresh token is a JWT
 token used to get an access token. With an access token,\n          you can call AssumeRoleWithWebIdentity to get
role credentials that you can use to \n          call License Manager to manage the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateTokenRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
```

"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n JWT token. ",
"smithy.api#required": {}
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n License Manager does not check whether the roles are in use. "
}
},
"ExpirationInDays": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Token expiration, in days, counted from token creation. The default is 365 days. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller to be included in the JWT token. The data is mapped\n to the amr claim of the JWT token. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Idempotency token, valid for 10 minutes. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CreateTokenResponse": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. "
}
},
"TokenType": {

"target": "com.amazonaws.licensemanager#TokenType",
"traits": {
"smithy.api#documentation": " Token type. "
}
},
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token,
encoded as a JWT token. "
}
}
}
},
"com.amazonaws.licensemanager#DateTime": {
"type": "timestamp"
},
"com.amazonaws.licensemanager#DatetimeRange": {
"type": "structure",
"members": {
"Begin": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Start of the time range. ",
"smithy.api#required": {}
}
},
"End": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " End of the time range. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a time range, in ISO8601-UTC
format. "
}
},
"com.amazonaws.licensemanager#DeleteGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteGrantResponse"
},
"errors": [

```
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

    },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Deletes the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#DeleteGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "StatusReason": {
            "target": "com.amazonaws.licensemanager#StatusReasonMessage",
            "traits": {

    "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Current version of the grant.</p>",
```

```
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanager#DeleteGrantResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation":
"<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#DeleteLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
         },
        {
```

"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license configuration. \n You cannot delete a license configuration

that is in use. "
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " ID of the license configuration. ",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"

},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified report generator. \n This action deletes the report generator, which stops it from generating future reports.\n The action cannot be reversed. It has no effect on the previous reports from this generator. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to be deleted. ",
"smithy.api#required": {}
}
}
}
},

"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#DeleteLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. ",
"smithy.api#required": {}
}
}
}

```
    },
    "com.amazonaws.licensemanager#DeleteLicenseResponse":
{
      "type": "structure",
      "members": {
        "Status": {
          "target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
          "traits": {
            "smithy.api#documentation": "<p>License status.</p>"
          }
        },
        "DeletionDate": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
          "traits": {
            "smithy.api#documentation": "<p>Date when the license is deleted.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#DeleteToken": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
      },
      "errors": [
        {

     "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
```

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified token. Must be called in the license home Region. "
}

},
"com.amazonaws.licensemanager#DeleteTokenRequest": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#DeleteTokenResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#DigitalSignatureMethod": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "JWT_PS384",
"name": "JWT_PS384"
}
]
}
},
"com.amazonaws.licensemanager#Entitlement": {
"type": "structure",

"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement name. ",
"smithy.api#required": {}
}
},
"Value": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement resource. Use only if the unit is None. "
}
},
"MaxCount": {
"target": "com.amazonaws.licensemanager#Long",
"traits": {
"smithy.api#documentation": " Maximum entitlement count. Use if the unit is not None. "
}
},
"Overage": {
"target": "com.amazonaws.licensemanager#BoxBoolean",

"traits": {
"smithy.api#documentation": " Indicates whether overages are allowed. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementUnit",
"traits": {
"smithy.api#documentation": " Entitlement unit. ",
"smithy.api#required": {}
}
},
"AllowCheckIn": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether check-ins are allowed. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a resource entitled for use with a license. "
}
},
"com.amazonaws.licensemanager#EntitlementData": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Entitlement data value. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {
"smithy.api#documentation": " Entitlement data unit. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Data associated
with an entitlement resource. "
}
},
"com.amazonaws.licensemanager#EntitlementDataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#EntitlementData"
}
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "Count",
"name": "COUNT"
},
{
"value": "None",
"name": "NONE"
},
{
"value": "Seconds",
"name": "SECONDS"
},
{
"value": "Microseconds",
"name": "MICROSECONDS"
},
{

"value": "Milliseconds",
"name": "MILLISECONDS"
},

```
{
   "value": "Bytes",
   "name": "BYTES"
},
{
   "value": "Kilobytes",
   "name": "KILOBYTES"
},
{
   "value": "Megabytes",
   "name": "MEGABYTES"
},
{
   "value": "Gigabytes",
   "name": "GIGABYTES"
},
{
   "value": "Terabytes",
   "name": "TERABYTES"
},
{
   "value": "Bits",
   "name": "BITS"
},
{
   "value": "Kilobits",
   "name": "KILOBITS"
 },
{
   "value": "Megabits",
   "name": "MEGABITS"
},
{
   "value": "Gigabits",
   "name": "GIGABITS"
},
{
   "value": "Terabits",
   "name": "TERABITS"
},
{
   "value": "Percent",
   "name": "PERCENT"
},
{
   "value": "Bytes/Second",
   "name": "BYTES_PER_SECOND"
},
```

```
            {
              "value": "Kilobytes/Second",
              "name": "KILOBYTES_PER_SECOND"
            },
            {
              "value": "Megabytes/Second",
              "name": "MEGABYTES_PER_SECOND"

},
            {
              "value": "Gigabytes/Second",
              "name": "GIGABYTES_PER_SECOND"
            },
            {
              "value": "Terabytes/Second",
              "name": "TERABYTES_PER_SECOND"
            },
            {
              "value": "Bits/Second",
              "name": "BITS_PER_SECOND"
            },
            {
              "value": "Kilobits/Second",
              "name": "KILOBITS_PER_SECOND"
            },
            {
              "value": "Megabits/Second",
              "name": "MEGABITS_PER_SECOND"
            },
            {
              "value": "Gigabits/Second",
              "name": "GIGABITS_PER_SECOND"
            },
            {
              "value": "Terabits/Second",

  "name": "TERABITS_PER_SECOND"
            },
            {
              "value": "Count/Second",
              "name": "COUNT_PER_SECOND"
            }
          ]
        }
      },
      "com.amazonaws.licensemanager#EntitlementList": {
        "type": "list",
        "member": {
```

```
        "target": "com.amazonaws.licensemanager#Entitlement"
    }
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#EntitlementUnit": {

 "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "Count",
                "name": "COUNT"
            },
            {
                "value": "None",
                "name": "NONE"
            },
            {
                "value": "Seconds",
                "name": "SECONDS"
            },
            {
                "value": "Microseconds",
                "name": "MICROSECONDS"
            },
            {
                "value": "Milliseconds",
                "name": "MILLISECONDS"
            },
            {
                "value": "Bytes",
                "name": "BYTES"
            },
            {
                "value": "Kilobytes",
                "name": "KILOBYTES"
```

```
},
    {
      "value": "Megabytes",
      "name": "MEGABYTES"
    },
    {
      "value": "Gigabytes",
      "name": "GIGABYTES"
    },
    {
      "value": "Terabytes",
      "name": "TERABYTES"
    },
    {
      "value": "Bits",
      "name": "BITS"
    },
    {
      "value": "Kilobits",
      "name": "KILOBITS"
    },
    {
      "value": "Megabits",
      "name": "MEGABITS"
    },
    {
      "value": "Gigabits",
      "name": "GIGABITS"
    },
    {
      "value": "Terabits",
       "name": "TERABITS"
    },
    {
      "value": "Percent",
      "name": "PERCENT"
    },
    {
      "value": "Bytes/Second",
      "name": "BYTES_PER_SECOND"
    },
    {
      "value": "Kilobytes/Second",
      "name": "KILOBYTES_PER_SECOND"
    },
    {
      "value": "Megabytes/Second",
```

"name": "MEGABYTES_PER_SECOND"
},
{
"value": "Gigabytes/Second",
"name": "GIGABYTES_PER_SECOND"
},
{
"value": "Terabytes/Second",
"name": "TERABYTES_PER_SECOND"
},
{

"value": "Bits/Second",
"name": "BITS_PER_SECOND"
},
{
"value": "Kilobits/Second",
"name": "KILOBITS_PER_SECOND"
},
{
"value": "Megabits/Second",
"name": "MEGABITS_PER_SECOND"
},
{
"value": "Gigabits/Second",
"name": "GIGABITS_PER_SECOND"
},
{
"value": "Terabits/Second",
"name": "TERABITS_PER_SECOND"
},
{
"value": "Count/Second",
"name": "COUNT_PER_SECOND"
}
]
}
},
"com.amazonaws.licensemanager#EntitlementUsage": {
"type": "structure",

"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement usage name. ",
"smithy.api#required": {}
}

```
        },
        "ConsumedValue": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxCount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
             "traits": {
                "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
    }
},
"com.amazonaws.licensemanager#EntitlementUsageList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#EntitlementUsage"
    }
},
"com.amazonaws.licensemanager#ExtendLicenseConsumption": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
    },
    "errors": [
        {

    "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
```

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            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}
                }
            },
            "DryRun": {
                "target": "com.amazonaws.licensemanager#Boolean",
                "traits": {
                    "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
        "type": "structure",

        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>"
                }
```

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            },
            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#FailedDependencyException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            },
            "ErrorCode": {
                "target": "com.amazonaws.licensemanager#String"
            }
        },

     "traits": {
            "aws.protocols#awsQueryError": {
                "code": "FailedDependency",
                "httpResponseCode": 424
            },
            "smithy.api#documentation": "<p>A dependency required to run the API is missing.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 424
        }
    },
    "com.amazonaws.licensemanager#Filter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#FilterName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the filter. Filter names are case-sensitive.</p>"
                }
            },
            "Values": {
                "target": "com.amazonaws.licensemanager#FilterValues",
                "traits": {
                    "smithy.api#documentation": "<p>Filter values. Filter
values are case-sensitive.</p>"
                }
            }
        },
        "traits": {
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"smithy.api#documentation": " A filter name and value pair that is used to return more specific results from a\n describe operation. Filters can be used to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FilterLimitExceeded",
"httpResponseCode": 400
},
"smithy.api#documentation": " The request uses too many filters or too many filter values. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter"
}
},
"com.amazonaws.licensemanager#FilterName": {
"type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
"type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#FilterValue",
"traits": {
"smithy.api#xmlName": "item"
}
}
},
"com.amazonaws.licensemanager#Filters": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter",

"traits": {
"smithy.api#xmlName":
"item"
}
}
},
"com.amazonaws.licensemanager#GetAccessToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"

}
],
"traits": {
"smithy.api#documentation": " Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access tokens\n are valid for one hour. "
}
},
"com.amazonaws.licensemanager#GetAccessTokenRequest": {
"type": "structure",
"members": {
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token, encoded as a JWT token. ",
"smithy.api#required": {}
}
},
"TokenProperties": {

"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Token properties to validate against those present in the JWT token. "
}

}
}
},
"com.amazonaws.licensemanager#GetAccessTokenResponse": {
"type": "structure",
"members": {
"AccessToken": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Temporary access token. "
}
}
}
},
"com.amazonaws.licensemanager#GetGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

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            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
                "smithy.api#documentation": "<p>Grant details.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",

    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
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        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified license
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configuration. "
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " Unique ID for the license configuration. "
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
                }
            },
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " Name of the license configuration. "
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " Description of the license configuration. "
                }
            },
            "LicenseCountingType": {
                "target": "com.amazonaws.licensemanager#LicenseCountingType",
                "traits": {

"smithy.api#documentation": " Dimension for which the licenses are counted. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of available licenses. "
}
},
"LicenseCountHardLimit": {

"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Sets the number of available licenses as a hard limit. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses assigned to resources. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License configuration status. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the
owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},
"ManagedResourceSummaryList": {

"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList":
{
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is
uninstalled. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
"type":
"operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"

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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets
information about the specified license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license type conversion task to retrieve information
on.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license
type conversion task.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the resources the license
conversion task is associated with.</p>"
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
```

"traits": {
"smithy.api#documentation": " Information about the license type converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted to. "

}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " Status of the license type conversion task. "
}
},
"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was started . "
}
},
"LicenseConversionTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Amount of time to complete the license type conversion. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was completed. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation":
"<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
```

"type": "structure",
"members": {
"ReportGenerator": {
"target": "com.amazonaws.licensemanager#ReportGenerator",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic reports about your license configurations. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseResponse": {
"type": "structure",
"members": {
"License": {
"target": "com.amazonaws.licensemanager#License",
"traits": {
"smithy.api#documentation": " License details. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseUsage": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"

```
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
        }
      },
      "com.amazonaws.licensemanager#GetLicenseUsageRequest": {
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanager#GetLicenseUsageResponse":
    {
        "type": "structure",
        "members": {
          "LicenseUsage": {
            "target": "com.amazonaws.licensemanager#LicenseUsage",
            "traits": {
              "smithy.api#documentation": "<p>License usage details.</p>"
            }
          }
        }
```

```
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },

  {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
discovery data,\n        and so on.</p>"
                }

            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>SNS topic configured to receive notifications from License
Manager.</p>"
```

```
            }
        },
        "OrganizationConfiguration": {
            "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Indicates whether Organizations is integrated with License
Manager for\n        cross-account discovery.</p>"
            }
        },
        "EnableCrossAccountsDiscovery": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Indicates whether cross-account discovery is enabled.</p>"
            }

  },
        "LicenseManagerResourceShareArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
Manager management account \n        provides member accounts with access to this share.</p>"
            }
        }
    }
  },
  "com.amazonaws.licensemanager#Grant": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "GrantName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

               "smithy.api#documentation": "<p>Grant name.</p>",
                "smithy.api#required": {}
            }
        },
        "ParentArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Parent ARN.</p>",
                "smithy.api#required": {}
```

```
            }
        },
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>License ARN.</p>",
                "smithy.api#required": {}
            }
        },
        "GranteePrincipalArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>The grantee principal ARN.</p>",

"smithy.api#required": {}
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "GrantStatus": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>",
                "smithy.api#required": {}
            }
        },
        "StatusReason": {
            "target": "com.amazonaws.licensemanager#StatusReasonMessage",
            "traits": {
                "smithy.api#documentation": "<p>Grant status reason.</p>"
            }
        },
        "Version": {

    "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>",
                "smithy.api#required": {}
            }
        },
        "GrantedOperations": {
            "target": "com.amazonaws.licensemanager#AllowedOperationList",
            "traits": {
```

```
            "smithy.api#documentation": "<p>Granted operations.</p>",
            "smithy.api#required": {}
          }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes a grant.</p>"
    }
},
"com.amazonaws.licensemanager#GrantList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Grant"
    }
},
"com.amazonaws.licensemanager#GrantStatus": {
    "type": "string",

  "traits": {
        "smithy.api#enum": [
          {
            "value": "PENDING_WORKFLOW",
            "name": "PENDING_WORKFLOW"
          },
          {
            "value": "PENDING_ACCEPT",
            "name": "PENDING_ACCEPT"
          },
          {
            "value": "REJECTED",
            "name": "REJECTED"
          },
          {
            "value": "ACTIVE",
            "name": "ACTIVE"
          },
          {
            "value": "FAILED_WORKFLOW",
            "name": "FAILED_WORKFLOW"
          },
          {
            "value": "DELETED",
            "name": "DELETED"
          },
          {
            "value": "PENDING_DELETE",
            "name": "PENDING_DELETE"
```

```
            },
            {
                "value": "DISABLED",
                "name": "DISABLED"
            },
            {
                "value": "WORKFLOW_COMPLETED",
                "name": "WORKFLOW_COMPLETED"
            }
        ]
    }
},
"com.amazonaws.licensemanager#GrantedLicense": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License name.</p>"
            }

},
        "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product name.</p>"
            }
        },
        "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product SKU.</p>"
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>Granted license issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " Home Region of the granted license. "

}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " Granted license status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the granted license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Granted license beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Granted license metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Creation time of the granted license. "

```
}
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Version of the granted license.</p>"
                }
            },
            "ReceivedMetadata": {
                "target": "com.amazonaws.licensemanager#ReceivedMetadata",
                "traits": {
                    "smithy.api#documentation": "<p>Granted license received metadata.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes a license that is granted to a grantee.</p>"
        }
    },
    "com.amazonaws.licensemanager#GrantedLicenseList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#GrantedLicense"
        }
    },
    "com.amazonaws.licensemanager#ISO8601DateTime":
{
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            },
            "smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-
1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[ 0-3]|[0-1][0-9]):[0-5][0-9])+$"
        }
    },
    "com.amazonaws.licensemanager#Integer": {
        "type": "integer",
        "traits": {
            "smithy.api#box": {}
        }
    },
    "com.amazonaws.licensemanager#InvalidParameterValueException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
```

```
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidParameterValueProvided",

 "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>One or more parameter values are not valid.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InvalidResourceStateException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidResourceState",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n        <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
            "smithy.api#error": "client",
             "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InventoryFilter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the filter.</p>",
                    "smithy.api#required": {}
                }
            },
            "Condition": {
                "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
                "traits": {
                    "smithy.api#documentation": "<p>Condition of the filter.</p>",
                    "smithy.api#required": {}
                }
```

```
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Value
of the filter.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>An inventory filter.</p>"
        }
    },
    "com.amazonaws.licensemanager#InventoryFilterCondition": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "EQUALS",
                    "name": "EQUALS"
                },
                {
                    "value": "NOT_EQUALS",
                    "name": "NOT_EQUALS"
                },
                {
                    "value": "BEGINS_WITH",
                    "name": "BEGINS_WITH"
                },
                {
                    "value": "CONTAINS",
                    "name": "CONTAINS"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#InventoryFilterList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#InventoryFilter"
        }
    },
    "com.amazonaws.licensemanager#Issuer": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " Issuer name. ",
"smithy.api#required": {}
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
}
},
"traits": {

"smithy.api#documentation": " Details about the issuer of a license. "
}
},
"com.amazonaws.licensemanager#IssuerDetails": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. "
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer key fingerprint. "
}
}
},
"traits": {
"smithy.api#documentation": " Details associated with the issuer of a license. "
}
},
"com.amazonaws.licensemanager#License": {

"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. "
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " License issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-

UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "

}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " License metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License creation time. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits":
{
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#documentation": " Software license that is managed in License Manager. "
}
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
"type": "structure",

```
 "members": {
    "LicenseConfigurationId": {
       "target": "com.amazonaws.licensemanager#String",
       "traits": {
          "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
       }
    },
    "LicenseConfigurationArn": {
       "target": "com.amazonaws.licensemanager#String",
       "traits": {
          "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
       }

},
    "Name": {
       "target": "com.amazonaws.licensemanager#String",
       "traits": {
          "smithy.api#documentation": "<p>Name of the license configuration.</p>"
       }
    },
    "Description": {
       "target": "com.amazonaws.licensemanager#String",
       "traits": {
          "smithy.api#documentation": "<p>Description of the license configuration.</p>"
       }
    },
    "LicenseCountingType": {
       "target": "com.amazonaws.licensemanager#LicenseCountingType",
       "traits": {
          "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
       }
    },
    "LicenseRules": {
       "target": "com.amazonaws.licensemanager#StringList",
       "traits": {

          "smithy.api#documentation": "<p>License rules.</p>"
       }
    },
    "LicenseCount": {
       "target": "com.amazonaws.licensemanager#BoxLong",
       "traits": {
          "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
       }
    },
    "LicenseCountHardLimit": {
       "target": "com.amazonaws.licensemanager#BoxBoolean",
       "traits": {
```

"smithy.api#documentation": " Number of available licenses as a hard limit. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "

}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the license configuration. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the license configuration's owner. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",

"traits": {
"smithy.api#documentation": " Summaries for licenses consumed by various resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},

"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated
discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license
agreement that can be\n consumed and enforced by License Manager. Components include specifications for
the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n
Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a
host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name
(ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource
consuming licenses. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was associated with the
resource. "
}
},
"AmiAssociationScope":

{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an association with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
}
},
"com.amazonaws.licensemanager#LicenseConfigurationStatus": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "AVAILABLE",
"name": "AVAILABLE"
},
{
"value": "DISABLED",
"name": "DISABLED"
}
]
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsage": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of resource. "
}
},

"ResourceStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Status of the resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was initially associated with the resource. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}

},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
}
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfiguration"
}
},
"com.amazonaws.licensemanager#LicenseConversionContext": {
"type": "structure",
"members": {

"UsageOperation": {
"target": "com.amazonaws.licensemanager#UsageOperation",
"traits": {
"smithy.api#documentation": " The Usage operation value that corresponds
to the license type you are converting your resource from. For more information about which platforms correspond to which usage operation values see Sample data: usage operation by platform\n \n "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTask": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the license type conversion task. "
}
},
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource associated with the license type\n conversion task. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted to. "
}
},

"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",

"traits": {
"smithy.api#documentation": " The status of the conversion task. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was started at. "
}
},
"LicenseConversionTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " The time the usage operation value of the resource was changed. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was completed. "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTaskId": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
}
},
"com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
"type":
"string",
"traits": {

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        "smithy.api#enum": [
            {
                "value": "IN_PROGRESS",
                "name": "IN_PROGRESS"
            },
            {
                "value": "SUCCEEDED",
                "name": "SUCCEEDED"
            },
            {
                "value": "FAILED",
                "name": "FAILED"
            }
        ]
    }
},
"com.amazonaws.licensemanager#LicenseConversionTasks": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#LicenseConversionTask"
    }
},
"com.amazonaws.licensemanager#LicenseCountingType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "vCPU",
                "name": "VCPU"

            },
            {
                "value": "Instance",
                "name": "INSTANCE"
            },
            {
                "value": "Core",
                "name": "CORE"
            },
            {
                "value": "Socket",
                "name": "SOCKET"
            }
        ]
    }
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {
    "type": "string",
```

```
    "traits": {
      "smithy.api#enum": [
        {
          "value": "PENDING_DELETE",
          "name": "PENDING_DELETE"
        },
        {
          "value": "DELETED",
          "name": "DELETED"
        }
      ]
    }
  },
  "com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
     "member": {
      "target": "com.amazonaws.licensemanager#License"
    }
  },
  "com.amazonaws.licensemanager#LicenseOperationFailure": {
    "type": "structure",
    "members": {
      "ResourceArn": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
        }
      },
      "ResourceType": {
        "target": "com.amazonaws.licensemanager#ResourceType",
        "traits": {
          "smithy.api#documentation": "<p>Resource type.</p>"
        }
      },
      "ErrorMessage": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Error message.</p>"

    }
      },
      "FailureTime": {
        "target": "com.amazonaws.licensemanager#DateTime",
        "traits": {
          "smithy.api#documentation": "<p>Failure time.</p>"
        }
      },
      "OperationName": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the operation. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource. "
}
},
"OperationRequestedBy": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The requester is \"License Manager Automated Discovery\". "
}
},
"MetadataList": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Reserved. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the failure of a license operation. "
}
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailure"
}
},
"com.amazonaws.licensemanager#LicenseSpecification": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"AmiAssociationScope": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseSpecification"
}
},
"com.amazonaws.licensemanager#LicenseStatus": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "AVAILABLE",
"name": "AVAILABLE"
},
{
"value": "PENDING_AVAILABLE",
"name": "PENDING_AVAILABLE"
},
{
"value": "DEACTIVATED",
"name": "DEACTIVATED"
},
{
"value": "SUSPENDED",
"name": "SUSPENDED"
},
{
"value": "EXPIRED",
"name": "EXPIRED"
},
{
"value": "PENDING_DELETE",
"name": "PENDING_DELETE"
},
{

"value": "DELETED",
"name": "DELETED"
}
]
}
},
"com.amazonaws.licensemanager#LicenseUsage": {
"type": "structure",
"members": {
"EntitlementUsages": {
"target": "com.amazonaws.licensemanager#EntitlementUsageList",
"traits": {
"smithy.api#documentation": " License entitlement usages. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the entitlement usage associated with a license. "
}
},
"com.amazonaws.licensemanager#LicenseUsageException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {

"aws.protocols#awsQueryError": {
"code": "LicenseUsageFailure",
"httpResponseCode": 412
},
"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
},
"errors": [

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            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the resource associations for the specified license
configuration.</p> \n        <p>Resource associations need not consume licenses from a license configuration. \n
For example, an AMI or a stopped instance might not consume a license (depending on \n        the license
rules).</p>"
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest":
{
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
```

```
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationAssociations": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the associations for the license
configuration.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListDistributedGrants": {
        "type": "operation",
        "input": {
            "target":
 "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
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"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants distributed for the specified license. "
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranteePrincipalARN</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",

"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configuration operations that failed. "
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
"type": "structure",
"members": {

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            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse": {
        "type": "structure",
        "members": {
            "LicenseOperationFailureList": {
                "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
                "traits": {
                    "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurations":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },

        {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
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"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>licenseCountingType</code> - The dimension for which licenses are counted.\n Possible values are <code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement is used. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>usagelimitExceeded</code> - A Boolean value that indicates whether the available licenses have been exceeded. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
"type": "structure",
"members": {
"LicenseConfigurations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurations",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "

}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasks": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"

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            },
            {
                "target":
 "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
        "type": "structure",
        "members": {
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                 "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>\n        Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n      </p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTasks": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configuration tasks for your
account.</p>"
```

```
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },

{
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the report generators for your account.</p>"
    }
```

```
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest": {
      "type":
 "structure",
      "members": {
        "Filters": {
          "target": "com.amazonaws.licensemanager#FilterList",
          "traits": {
            "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:
</p>\n      <ul>\n        <li>\n        <p>\n        <code>LicenseConfigurationArn</code>\n
</p>\n        </li>\n      </ul>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#MaxSize100",
          "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to
 return in a single call.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
      "type": "structure",
      "members": {
        "ReportGenerators": {
          "target": "com.amazonaws.licensemanager#ReportGeneratorList",
          "traits": {
            "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
      "type": "operation",
```

"input":
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Describes the
license configurations for the specified resource. "
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a resource that has an
associated license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",

```
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {
        "LicenseSpecifications": {
            "target": "com.amazonaws.licensemanager#LicenseSpecifications",
            "traits": {
                "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
```

```
        ],
        "traits": {
            "smithy.api#documentation":
"<p>Lists all versions of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum
number of results to return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
        "type": "structure",
        "members": {
            "Licenses": {
                "target": "com.amazonaws.licensemanager#LicenseList",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
```

"com.amazonaws.licensemanager#ListLicenses": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicensesRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicensesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses for your account. "
}
},
"com.amazonaws.licensemanager#ListLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n

```
<code>Fingerprint</code>\n </p>\n </li>\n <li>\n <p>\n
<code>Status</code>\n </p>\n </li>\n </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListLicensesResponse": {
        "type": "structure",
        "members": {
          "Licenses": {

    "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
              "smithy.api#documentation": "<p>License details.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListReceivedGrants": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
```

{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists grants that are received but not accepted. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
"type": "structure",

"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n
<code>GrantStatus</code>\n \n \n \n \n <code>GranterAccountId</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",

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            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
    "type": "structure",
    "members": {
        "Grants": {

     "target": "com.amazonaws.licensemanager#GrantList",
            "traits": {
                "smithy.api#documentation": "<p>Received grant details.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"

},
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists received licenses.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
        "type": "structure",

    "members": {
            "LicenseArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>ProductSKU</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                <code>Status</code>\n                </p>\n            </li>\n
<li>\n                <p>\n                <code>Fingerprint</code>\n                </p>\n            </li>\n            <li>\n
<p>\n                <code>IssuerName</code>\n
            </p>\n            </li>\n            <li>\n                <p>\n                <code>Beneficiary</code>\n                </p>\n
        </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
```

"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {

"target": "com.amazonaws.licensemanager#GrantedLicenseList",
"traits": {
"smithy.api#documentation": " Received license details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListResourceInventory": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"

},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FailedDependencyException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryRequest": {

        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#InventoryFilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n are supported:</p>\n <ul>\n <li>\n <p>\n <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n </li>\n <li>\n <p>\n <code>application_name</code> - The name of the application. \n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n </li>\n <li>\n <p>\n <code>license_included</code> - The type of license included. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n Possible values are <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>.</p>\n </li>\n <li>\n <p>\n <code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n </li>\n <li>\n <p>\n <code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n </li>\n <li>\n <p>\n <code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account).</p>\n </li>\n </ul>"
```

```
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListResourceInventoryResponse": {
        "type": "structure",
        "members": {
          "ResourceInventoryList": {
            "target": "com.amazonaws.licensemanager#ResourceInventoryList",
            "traits":
{
              "smithy.api#documentation": "<p>Information about the resources.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListTagsForResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
           },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
```

"smithy.api#documentation": " Lists the tags for the specified license configuration. "
}
},
"com.amazonaws.licensemanager#ListTagsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#ListTagsForResourceResponse": {
"type": "structure",
"members": {
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Information about the tags. "
}
}
}
},
"com.amazonaws.licensemanager#ListTokens": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListTokensRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListTokensResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{

"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists your tokens. "
}
},
"com.amazonaws.licensemanager#ListTokensRequest": {
"type": "structure",
"members": {
"TokenIds": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " Token IDs. "
}
},
"Filters": {
"target":
"com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filter is supported: \n
\n \n \n <code>LicenseArns</code>\n \n \n
"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListTokensResponse":
{
"type": "structure",
"members": {
"Tokens": {
"target": "com.amazonaws.licensemanager#TokenList",

"traits": {
"smithy.api#documentation": " Received token details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists all license usage records for a license configuration, displaying license\n consumption details by resource
at a selected point in time. Use this action to audit the\n current license consumption for any license inventory and configuration. "
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {

"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>resourceArn</code> - The ARN of the license configuration resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>).\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceAccount</code> - The ID of the account that owns the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationUsageList": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "

```
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#Location": {
    "type": "string"
},
"com.amazonaws.licensemanager#Long": {
    "type": "long",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummary": {
    "type": "structure",
    "members": {
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
            }
        },
        "AssociationCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {
    "type": "integer",
    "traits": {
```

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            "smithy.api#box": {},
            "smithy.api#range": {
                "min": 1,
                "max": 100
            }
        }
    },
    "com.amazonaws.licensemanager#MaxSize3StringList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
         },
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 3
            }
        }
    },
    "com.amazonaws.licensemanager#Message": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#Metadata": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The key name.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes key/value pairs.</p>"
        }

    },
    "com.amazonaws.licensemanager#MetadataList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Metadata"
        }
```

```
    },
    "com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>There are no entitlements found for this license, or the entitlement
maximum count is reached.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
      }
    },
    "com.amazonaws.licensemanager#OrganizationConfiguration": {
      "type": "structure",
      "members": {
        "EnableIntegration": {
          "target": "com.amazonaws.licensemanager#Boolean",

     "traits": {
          "smithy.api#documentation": "<p>Enables Organizations integration.</p>",
          "smithy.api#required": {}
        }
      }
      },
      "traits": {
        "smithy.api#documentation": "<p>Configuration information for Organizations.</p>"
      }
    },
    "com.amazonaws.licensemanager#PrincipalArnList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#Arn"
      },
      "traits": {
        "smithy.api#length": {
          "min": 1,
          "max": 1
        }
      }
    },
    "com.amazonaws.licensemanager#ProductInformation": {
      "type": "structure",
      "members": {
        "ResourceType": {
          "target": "com.amazonaws.licensemanager#String",
```

"traits": {

"smithy.api#documentation": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n
Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n
Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n
<code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n \n ",
"smithy.api#required": {}
}

```
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes product information for a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ProductInformationFilter": {
        "type": "structure",
        "members": {
            "ProductInformationFilterName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Filter name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductInformationFilterValue": {
                "target":
"com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Filter value.</p>"
                }
            },
            "ProductInformationFilterComparator": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Logical operator.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes product information filters.</p>"
        }
    },
    "com.amazonaws.licensemanager#ProductInformationFilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ProductInformationFilter"
        }
    },
    "com.amazonaws.licensemanager#ProductInformationList": {
        "type": "list",

       "member": {
            "target": "com.amazonaws.licensemanager#ProductInformation"
        }
    },
```

"com.amazonaws.licensemanager#ProvisionalConfiguration": {
"type": "structure",
"members": {
"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the provisional configuration, in minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"com.amazonaws.licensemanager#RateLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"

}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "RateLimitExceeded",
"httpResponseCode": 429
},
"smithy.api#documentation": " Too many requests have been submitted. Try again after a brief wait. ",
"smithy.api#error": "client",
"smithy.api#httpError": 429
}
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
"type": "structure",
"members": {
"ReceivedStatus": {
"target": "com.amazonaws.licensemanager#ReceivedStatus",
"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {

"smithy.api#documentation": " Received status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations. "
}
}
},
"traits": {
"smithy.api#documentation": " Metadata associated with received licenses and grants. "
}
},
"com.amazonaws.licensemanager#ReceivedStatus": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "PENDING_WORKFLOW",
"name": "PENDING_WORKFLOW"
},
{
"value": "PENDING_ACCEPT",
"name": "PENDING_ACCEPT"
},
{
"value": "REJECTED",
"name": "REJECTED"
},
{
"value": "ACTIVE",
"name": "ACTIVE"
},
{
"value": "FAILED_WORKFLOW",
"name": "FAILED_WORKFLOW"
},
{
"value": "DELETED",
"name": "DELETED"
},
{
"value": "DISABLED",
"name": "DISABLED"
},
{
"value": "WORKFLOW_COMPLETED",

"name": "WORKFLOW_COMPLETED"
}
]
}
},
"com.amazonaws.licensemanager#RedirectException": {
"type": "structure",
"members": {

"Location": {
"target": "com.amazonaws.licensemanager#Location",
"traits": {
"smithy.api#httpHeader": "Location"
}
},
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " This is not the correct Region for the resource. Try again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 308
}
},
"com.amazonaws.licensemanager#RejectGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#RejectGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#RejectGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

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            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest":
{
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"

        }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        }
```

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    },
    "com.amazonaws.licensemanager#RenewType": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "None",
                    "name": "NONE"
                },
                {
                    "value": "Weekly",
                    "name": "WEEKLY"
                },
                {
                    "value": "Monthly",
                    "name": "MONTHLY"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#ReportContext": {
        "type": "structure",
        "members": {

  "licenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration that
this generator reports on.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details of the license configuration that this generator reports on.</p>"
        }
    },
    "com.amazonaws.licensemanager#ReportFrequency": {
        "type": "structure",
        "members": {
            "value": {
                "target": "com.amazonaws.licensemanager#Integer",
                "traits": {
                    "smithy.api#documentation": "<p>Number of times within the frequency period that a report is
generated.  \n        The only supported value is <code>1</code>.</p>"

            }
            },
```

"period": {
"target": "com.amazonaws.licensemanager#ReportFrequencyType",
"traits": {
"smithy.api#documentation": " Time period between each report. The period can be daily, weekly, or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"com.amazonaws.licensemanager#ReportFrequencyType": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "DAY",
"name": "DAY"
},
{
"value": "WEEK",
"name": "WEEK"
},
{
"value": "MONTH",

"name": "MONTH"
}
]
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the report generator. "
}
},
"ReportType": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports that are generated. "
}
},
"ReportContext": {

"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " License configuration type for this generator. "
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. "
}
},
"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}
},
"LastRunFailureReason": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Failure message for the last report generation attempt. "
}
},
"LastReportGenerationTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the last report was generated at. "
}
},
"ReportCreatorAccount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Web Services account ID used to create the report generator. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the report was created. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags associated with the report generator. "
}
}
},

"traits": {
"smithy.api#documentation": " Describe the details of a report generator. "
}
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportGenerator"
}
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
}
}
},
"com.amazonaws.licensemanager#ReportType": {
"type": "string",
"traits": {
"smithy.api#enum": [
{

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            "value": "LicenseConfigurationSummaryReport",
            "name": "LICENSE_CONFIGURATION_SUMMARY_REPORT"
        },
        {
            "value": "LicenseConfigurationUsageReport",
            "name": "LICENSE_CONFIGURATION_USAGE_REPORT"
        }
    ]
  }
},
"com.amazonaws.licensemanager#ReportTypeList": {
  "type": "list",
  "member": {
    "target": "com.amazonaws.licensemanager#ReportType"
  }
},
"com.amazonaws.licensemanager#ResourceInventory": {
  "type": "structure",
  "members": {
    "ResourceId": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>ID of the resource.</p>"
      }
    },
    "ResourceType": {
      "target": "com.amazonaws.licensemanager#ResourceType",
      "traits": {
        "smithy.api#documentation": "<p>Type of resource.</p>"
      }
    },
    "ResourceArn": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
      }
    },
    "Platform": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Platform of the resource.</p>"
      }
    },
    "PlatformVersion": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
      }
```

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            },
            "ResourceOwningAccountId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>ID of the account that owns the resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ResourceInventoryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ResourceInventory"
        }
    },
    "com.amazonaws.licensemanager#ResourceLimitExceededException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ResourceLimitExceeded",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>Your resource limits have
been exceeded.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#ResourceNotFoundException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidResource.NotFound",
                "httpResponseCode": 400
```

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            },
            "smithy.api#documentation": "<p>The resource cannot be found.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#ResourceType": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "EC2_INSTANCE",
                     "name": "EC2_INSTANCE"
                },
                {
                    "value": "EC2_HOST",
                    "name": "EC2_HOST"
                },
                {
                    "value": "EC2_AMI",
                    "name": "EC2_AMI"
                },
                {
                    "value": "RDS",
                    "name": "RDS"
                },
                {
                    "value": "SYSTEMS_MANAGER_MANAGED_INSTANCE",
                    "name": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#S3Location": {
        "type": "structure",
        "members": {
            "bucket": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the S3 bucket
reports are published to.</p>"
                }
            },
            "keyPrefix": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Prefix of the S3 bucket reports are published to.</p>"
                }
```

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            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
        }
    },
    "com.amazonaws.licensemanager#ServerInternalException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InternalError",
                "httpResponseCode": 500
            },
            "smithy.api#documentation":
 "<p>The server experienced an internal error. Try again.</p>",
            "smithy.api#error": "server",
            "smithy.api#httpError": 500
        }
    },
    "com.amazonaws.licensemanager#SignedToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 4096
            }
        }
    },
    "com.amazonaws.licensemanager#StatusReasonMessage": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 400
            },
            "smithy.api#pattern": "^[\\s\\S]+$"
        }
    },
    "com.amazonaws.licensemanager#String": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#StringList": {
        "type": "list",
```

```
        "member": {
            "target": "com.amazonaws.licensemanager#String"

      }
    },
    "com.amazonaws.licensemanager#Tag": {
        "type": "structure",
        "members": {
            "Key": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag key.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#TagList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Tag"
        }
    },
    "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
            {
```

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},

{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Adds the specified tags to the specified license configuration. "
}
},
"com.amazonaws.licensemanager#TagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " One or more tags. ",
"smithy.api#required": {}
}
}
}
}
},
"com.amazonaws.licensemanager#TagResourceResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#TokenData": {
"type": "structure",
"members": {

"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. "
}
},
"TokenType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Type of token generated. The supported value is <code>REFRESH_TOKEN</code>. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"ExpirationTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Token expiration time, in ISO8601-UTC format. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller. "
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the roles included in the token. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a token. "

```
        }
    },
    "com.amazonaws.licensemanager#TokenList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#TokenData"
        }
    },
    "com.amazonaws.licensemanager#TokenString": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 4096
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
    "com.amazonaws.licensemanager#TokenType":
{
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "REFRESH_TOKEN",
                    "name": "REFRESH_TOKEN"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The digital signature method is unsupported. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#UntagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UntagResourceRequest"
```

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UntagResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Removes the specified tags from the specified license
configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#UntagResourceRequest":
 {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "TagKeys": {
                "target": "com.amazonaws.licensemanager#TagKeyList",
                "traits": {
                    "smithy.api#documentation": "<p>Keys identifying the tags to remove.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#UntagResourceResponse": {
```

"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Modifies the attributes of an existing license configuration. "
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"LicenseConfigurationStatus": {

"target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
"traits": {
"smithy.api#documentation": " New status of the license configuration. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " New license rule. The only rule that you can add after you create a license\n configuration is licenseAffinityToHost. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " New number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}

},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {

"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates a report generator. \n After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated. "

```
  }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
      "type": "structure",
      "members": {
        "LicenseManagerReportGeneratorArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to
update.</p>",
            "smithy.api#required": {}
          }
        },
        "ReportGeneratorName": {
          "target": "com.amazonaws.licensemanager#ReportGeneratorName",
          "traits": {
            "smithy.api#documentation": "<p>Name of the report generator.</p>",
            "smithy.api#required": {}
          }
        },
        "Type": {
          "target": "com.amazonaws.licensemanager#ReportTypeList",
          "traits": {
            "smithy.api#documentation": "<p>Type of reports to generate. The following report types are
supported:</p>\n <ul>\n <li>\n <p>License configuration report - Reports the number and
details of consumed licenses for a license configuration.</p>\n </li>\n <li>\n <p>Resource
report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n </li>\n
</ul>",
            "smithy.api#required": {}
          }
        },
        "ReportContext": {
          "target": "com.amazonaws.licensemanager#ReportContext",
          "traits": {
            "smithy.api#documentation": "<p>The report context.</p>",
            "smithy.api#required": {}
          }
        },
        "ReportFrequency": {
          "target": "com.amazonaws.licensemanager#ReportFrequency",
          "traits": {
            "smithy.api#documentation": "<p>Frequency by which reports are generated.</p>",
            "smithy.api#required": {}
          }
        },
        "ClientToken": {
          "target": "com.amazonaws.licensemanager#ClientRequestToken",
```

"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#InvalidResourceStateException"

},
{
"target": "com.amazonaws.licensemanager#LicenseUsageException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{

"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Adds or removes the specified license configurations for the specified Amazon Web Services resource. \n You can update the license specifications of AMIs, instances, and hosts.\n You cannot update the license specifications for launch templates and CloudFormation templates, \n as they send license configurations to the operation that creates the resource. "
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon Web Services resource. ",
"smithy.api#required": {}
}
},
"AddLicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " ARNs of the license configurations to add. "
}
},
"RemoveLicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " ARNs of the license configurations to remove. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
},
"errors": [

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where
the License Manager information is stored.</p>"
                }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon
 Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Enables integration with Organizations for cross-account
discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Activates cross-account discovery.</p>"
```

```
                }
            }
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#UsageOperation": {
        "type":
 "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            }
        }
    },
    "com.amazonaws.licensemanager#ValidationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    }
  }
}
```


```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
```

```
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string
```

```
 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 //
 Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
```

```
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err
!= nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return
 nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
```

```
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {
```

```
 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
```

```
 options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
```

```
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

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// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
```

```
 //
 // This member is required.
 WworkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if
 err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
```

```
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}
```

1.4090 aws-sdk-go-v2-internal-configsources 1.1.7

1.4090.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
 //
```

```
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
```

```
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}
```

```
func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
```

```
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
```

```
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err
 = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
```

```
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
```

```
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil
 {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
```

```
      run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
    - name: Get Target Files
      run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
       uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
```

```
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity *types.DatetimeRange

 //
 Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
```

```
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return
```

```
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
```

```
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
```

```
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
```

```
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
  return err
```

```
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}
```

AWS SDK for Go
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{
  "smithy": "1.0",
  "metadata": {
    "suppressions": [
      {
        "id": "HttpMethodSemantics",
        "namespace": "*"
      },
      {
        "id": "HttpResponseCodeSemantics",
        "namespace": "*"
      },
      {
        "id": "PaginatedTrait",
        "namespace": "*"
      },
      {
        "id": "HttpHeaderTrait",
        "namespace": "*"
      },
      {
        "id": "HttpUriConflict",
        "namespace": "*"
      },
      {
        "id": "Service",
        "namespace": "*"
      }
    ]
  },
  "shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
      "type": "service",
      "version": "2018-08-01",
      "operations": [
        {
          "target": "com.amazonaws.licensemanager#AcceptGrant"
        },

{
          "target": "com.amazonaws.licensemanager#CheckInLicense"
        },
        {
          "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
        },

{
"target": "com.amazonaws.licensemanager#CheckoutLicense"
},
{
"target": "com.amazonaws.licensemanager#CreateGrant"
},
{
"target": "com.amazonaws.licensemanager#CreateGrantVersion"
},
{
"target": "com.amazonaws.licensemanager#CreateLicense"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseVersion"
},
{
"target": "com.amazonaws.licensemanager#CreateToken"
},
{
"target": "com.amazonaws.licensemanager#DeleteGrant"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicense"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#DeleteToken"
},
{
"target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

},
{
"target": "com.amazonaws.licensemanager#GetAccessToken"

},
{
"target": "com.amazonaws.licensemanager#GetGrant"
},
{
"target": "com.amazonaws.licensemanager#GetLicense"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseUsage"
},
{
"target": "com.amazonaws.licensemanager#GetServiceSettings"
},
{
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#ListDistributedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
"target": "com.amazonaws.licensemanager#ListLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

"target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListResourceInventory"
},
{
"target": "com.amazonaws.licensemanager#ListTagsForResource"
},
{
"target": "com.amazonaws.licensemanager#ListTokens"
},
{
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#RejectGrant"
},
{
"target": "com.amazonaws.licensemanager#TagResource"
},
{
"target": "com.amazonaws.licensemanager#UntagResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateServiceSettings"
}
],
"traits": {
"aws.api#service": {
"sdkId": "License Manager",
"arnNamespace": "license-manager",
"cloudFormationName": "LicenseManager",
"cloudTrailEventSource": "licensemanager.amazonaws.com",

"endpointPrefix":
"license-manager"
},
"aws.auth#sigv4": {
"name": "license-manager"
},
"aws.protocols#awsJson1_1": {},
"smithy.api#documentation": " License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers. ",
"smithy.api#title": "AWS License Manager",
"smithy.api#xmlNamespace": {
"uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
}
}
},
"com.amazonaws.licensemanager#AcceptGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#AcceptGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#AcceptGrantResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {

"smithy.api#documentation": " Accepts the specified grant. "
}
},
"com.amazonaws.licensemanager#AcceptGrantRequest":
{
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#AcceptGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant
status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
}
},
"com.amazonaws.licensemanager#AccessDeniedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {

```
            "aws.protocols#awsQueryError": {
                "code": "ServiceAccessDenied",
                "httpResponseCode": 401
            },
            "smithy.api#documentation": "<p>Access to resource denied.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 401
        }
    },
    "com.amazonaws.licensemanager#AllowedOperation":
{
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "CreateGrant",
                    "name": "CREATE_GRANT"
                },
                {
                    "value": "CheckoutLicense",
                    "name": "CHECKOUT_LICENSE"
                },
                {
                    "value": "CheckoutBorrowLicense",
                    "name": "CHECKOUT_BORROW_LICENSE"
                },
                {
                    "value": "CheckInLicense",
                    "name": "CHECK_IN_LICENSE"
                },
                {
                    "value": "ExtendConsumptionLicense",
                    "name": "EXTEND_CONSUMPTION_LICENSE"
                },
                {
                    "value": "ListPurchasedLicenses",
                    "name": "LIST_PURCHASED_LICENSES"
                 },
                {
                    "value": "CreateToken",
                    "name": "CREATE_TOKEN"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#AllowedOperationList": {
        "type": "list",
        "member": {
```

"target": "com.amazonaws.licensemanager#AllowedOperation"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 7
}
}
},
"com.amazonaws.licensemanager#Arn": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
}
},
"com.amazonaws.licensemanager#ArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
}
},
"com.amazonaws.licensemanager#AuthorizationException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "AuthorizationFailure",
"httpResponseCode": 403
},
"smithy.api#documentation": " The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n policy associated with this account. ",
"smithy.api#error": "client",
"smithy.api#httpError": 403
}
},
"com.amazonaws.licensemanager#AutomatedDiscoveryInformation":
{
"type": "structure",
"members": {

```
        "LastRunTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes automated discovery.</p>"
    }
},
"com.amazonaws.licensemanager#Boolean": {
    "type": "boolean"
},
"com.amazonaws.licensemanager#BorrowConfiguration": {
    "type": "structure",
    "members": {
        "AllowEarlyCheckIn": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Indicates whether early check-ins are allowed.</p>",
                 "smithy.api#required": {}
            }
        },
        "MaxTimeToLiveInMinutes": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
    }
},
"com.amazonaws.licensemanager#BoxBoolean": {
    "type": "boolean",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#BoxInteger": {
    "type": "integer",
    "traits": {
        "smithy.api#box": {}
    }
},
```

"com.amazonaws.licensemanager#BoxLong": {

"type": "long",
"traits": {
"smithy.api#box": {}
}
},
"com.amazonaws.licensemanager#CheckInLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks in the specified license. Check in a license when it is no longer in use. "
}
},
"com.amazonaws.licensemanager#CheckInLicenseRequest": {
"type": "structure",

"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",

"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
}
}
},
"com.amazonaws.licensemanager#CheckInLicenseResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                 "traits": {
                    "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
                    "smithy.api#required": {}
                }
            },
            "DigitalSignatureMethod": {
                "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
                "traits": {
                    "smithy.api#documentation": "<p>Digital signature method. The possible value is JSON Web
Signature (JWS) algorithm PS384.\n        For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>",
                    "smithy.api#required": {}
                }
```

```
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
 "<p>Node ID.</p>"
                }
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",

 "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>"
                }
            },
            "EntitlementsAllowed": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        },
        "SignedToken": {

        "target": "com.amazonaws.licensemanager#SignedToken",
            "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
            }
        },
        "IssuedAt": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
            }
        },
        "Expiration": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
            }
        },
        "CheckoutMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
                "smithy.api#documentation":
"<p>Information about constraints.</p>"
            }
        }
    }
  },
  "com.amazonaws.licensemanager#CheckoutLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
```

"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks out the specified license. "
}
},
"com.amazonaws.licensemanager#CheckoutLicenseRequest": {
"type": "structure",
"members": {
"ProductSKU":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. ",
"smithy.api#required": {}
}
},
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. ",
"smithy.api#required": {}
}
},
"KeyFingerprint": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Key fingerprint identifying the license. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Node ID. "
}
}
}
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
"type": "structure",
"members": {
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation":
" Allowed license entitlements. "
}
},
"SignedToken": {
"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",

"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the checkout license. "
}
}
}
},
"com.amazonaws.licensemanager#CheckoutType": {
"type": "string",
"traits": {
"smithy.api#enum": [
{

"value": "PROVISIONAL",
"name": "PROVISIONAL"
},
{
"value": "PERPETUAL",
"name": "PERPETUAL"
}
]
}
},
"com.amazonaws.licensemanager#ClientRequestToken":
{
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 36
}
}
},
"com.amazonaws.licensemanager#ClientToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#ConflictException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ConflictException",
"httpResponseCode": 409
},
"smithy.api#documentation": " There
was a conflict processing the request. Try your request again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 409
}
},

```
"com.amazonaws.licensemanager#ConsumedLicenseSummary": {
    "type": "structure",
    "members": {
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about license consumption.</p>"
     }
},
"com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
    }
},
"com.amazonaws.licensemanager#ConsumptionConfiguration": {
    "type": "structure",
    "members": {
        "RenewType": {
            "target": "com.amazonaws.licensemanager#RenewType",
            "traits": {
                "smithy.api#documentation": "<p>Renewal frequency.</p>"
            }
        },
        "ProvisionalConfiguration": {
            "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
            }
        },
        "BorrowConfiguration": {

            "target": "com.amazonaws.licensemanager#BorrowConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
            }
        }
```

```
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },

        {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of
license entitlements with specific Amazon Web Services accounts.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantRequest": {
        "type": "structure",
        "members": {

  "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
```

"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},

"Principals": {
"target": "com.amazonaws.licensemanager#PrincipalArnList",
"traits": {
"smithy.api#documentation": " The grant principals. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CreateGrantResponse":
{
"type": "structure",
"members": {

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            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersion": {
        "type": "operation",
        "input": {

"target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
```

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            {

              "target": "com.amazonaws.licensemanager#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant.</p>"
          }
        },
        "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
          "type": "structure",
          "members": {
            "ClientToken": {
              "target": "com.amazonaws.licensemanager#ClientToken",
              "traits": {
                "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                "smithy.api#required": {}
              }
            },
            "GrantArn": {
              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                 "smithy.api#required": {}
              }
            },
            "GrantName": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Grant name.</p>"
              }
            },
            "AllowedOperations": {
              "target": "com.amazonaws.licensemanager#AllowedOperationList",
              "traits": {
                "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
              }
            },
            "Status": {
              "target": "com.amazonaws.licensemanager#GrantStatus",
              "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
              }
            },
            "StatusReason": {
              "target": "com.amazonaws.licensemanager#StatusReasonMessage",
```

"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the grant. "
}
}
}
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant
status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New version of the grant. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

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            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
```

"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Creates a license configuration. \n A license configuration is an abstraction of a customer license
agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a \n license must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension used to track the license inventory. ",
"smithy.api#required": {}
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {

"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances. "
}

```
            },
            "LicenseRules": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>License rules. The syntax is #name=value (for example,
#allowedTenancy=EC2-DedicatedHost). The available rules \n        vary by dimension, as follows.</p>\n
<ul>\n            <li>\n              <p>\n                <code>Cores</code> dimension: <code>allowedTenancy</code> |\n
          <code>licenseAffinityToHost</code> |\n              <code>maximumCores</code> |
<code>minimumCores</code>\n              </p>\n            </li>\n            <li>\n              <p>\n
<code>Instances</code> dimension: <code>allowedTenancy</code> | \n              <code>maximumCores</code>
 | <code>minimumCores</code> |\n              <code>maximumSockets</code> | <code>minimumSockets</code>
|\n              <code>maximumVcpus</code> | <code>minimumVcpus</code>\n              </p>\n            </li>\n
<li>\n              <p>\n                <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n
<code>licenseAffinityToHost</code> |\n              <code>maximumSockets</code> |
<code>minimumSockets</code>\n              </p>\n            </li>\n            <li>\n              <p>\n
<code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n
<code>honorVcpuOptimization</code> | \n              <code>maximumVcpus</code> |
<code>minimumVcpus</code>\n              </p>\n            </li>\n        </ul>\n        <p>The unit for
<code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n        values for
<code>allowedTenancy</code> are <code>EC2-Default</code>,
 <code>EC2-DedicatedHost</code>, and \n        <code>EC2-DedicatedInstance</code>. The possible values for
<code>honorVcpuOptimization</code> are \n        <code>True</code> and <code>False</code>.</p>"
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Tags to add to the license configuration.</p>"
                }
            },
            "DisassociateWhenNotFound": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
                }
            },
            "ProductInformationList": {
                "target": "com.amazonaws.licensemanager#ProductInformationList",
                "traits":
 {
                    "smithy.api#documentation": "<p>Product information.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse": {
        "type": "structure",
```

"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a new license conversion task. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest":
{
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource you are converting the license type for. ",
"smithy.api#required": {}
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting from. \n For the structure of the source license, see Convert a license type using the AWS CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting to. For the structure of the destination license, see Convert a license type using the AWS CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the created license type conversion task. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a report generator. "
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target":
"com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types an be generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}

```
            }
          },

        "ReportContext": {
            "target": "com.amazonaws.licensemanager#ReportContext",
            "traits": {
              "smithy.api#documentation": "<p>Defines the type of license configuration the report generator
tracks.</p>",
              "smithy.api#required": {}
            }
          },
          "ReportFrequency": {
            "target": "com.amazonaws.licensemanager#ReportFrequency",
            "traits": {
              "smithy.api#documentation": "<p>Frequency by which reports are generated.  Reports can be
generated daily, monthly, or weekly.</p>",
              "smithy.api#required": {}
            }
          },
          "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientRequestToken",
            "traits": {
              "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide
 to ensure the idempotency of the request.</p>",
              "smithy.api#required": {}
            }
          },
          "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Description of the report generator.</p>"
            }
          },
          "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
              "smithy.api#documentation": "<p>Tags to add to the report generator.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {
          "LicenseManagerReportGeneratorArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits":
```

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{
                "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the new report generator.</p>"
            }
        }
    }
  },
  "com.amazonaws.licensemanager#CreateLicenseRequest": {
    "type": "structure",
    "members": {
      "LicenseName": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>License name.</p>",
          "smithy.api#required": {}
        }
      },
      "ProductName": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Product name.</p>",
          "smithy.api#required": {}
        }
      },
      "ProductSKU": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Product SKU.</p>",
          "smithy.api#required": {}
        }
      },
      "Issuer": {
        "target": "com.amazonaws.licensemanager#Issuer",
        "traits": {
          "smithy.api#documentation": "<p>License issuer.</p>",
          "smithy.api#required": {}
        }
      },
      "HomeRegion": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Home Region for the license.</p>",
          "smithy.api#required": {}
        }
      },
      "Validity": {
        "target": "com.amazonaws.licensemanager#DatetimeRange",
        "traits": {
```

"smithy.api#documentation":
" Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {

"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}

}
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
"type": "structure",

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        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
              "smithy.api#documentation": "<p>License status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License version.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseVersion":
{
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#RedirectException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
```

```
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License name.</p>",
                "smithy.api#required": {}
            }
        },
        "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product name.</p>",
                "smithy.api#required": {}
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#Issuer",
            "traits": {
                "smithy.api#documentation": "<p>License issuer.</p>",
                "smithy.api#required": {}
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation":
```

" Home Region of the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}

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            }
        },
        "SourceVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Current version of the license.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>License ARN.</p>"
            }
        },

   "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>New version of the license.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CreateToken": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateTokenResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
```

{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a long-lived token. \n A refresh token is a JWT token used to get an access token. With an access token,\n you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n call License Manager to manage the specified license. "
}
},
"com.amazonaws.licensemanager#CreateTokenRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n JWT token. ",
"smithy.api#required": {}
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n License Manager does not check whether the roles are in use. "
}
},
"ExpirationInDays": {
"target": "com.amazonaws.licensemanager#Integer",

"traits": {
"smithy.api#documentation": " Token expiration, in days, counted from token creation. The default is 365 days. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller to be included in the JWT token. The data is mapped\n to the amr claim of the JWT token. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Idempotency token, valid for 10 minutes. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CreateTokenResponse": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. "
}
},
"TokenType": {
"target": "com.amazonaws.licensemanager#TokenType",
"traits": {
"smithy.api#documentation": " Token type. "
}
},
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token, encoded as a JWT token. "
}
}
}
},
"com.amazonaws.licensemanager#DateTime": {
"type": "timestamp"

```
    },
    "com.amazonaws.licensemanager#DatetimeRange": {
        "type": "structure",
        "members": {
            "Begin": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Start of the time range.</p>",
                    "smithy.api#required": {}
                }
            },
            "End": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>End of the time range.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC
format.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
```

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  },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      },
      {
        "target": "com.amazonaws.licensemanager#ValidationException"
      }
    ],
    "traits": {
      "smithy.api#documentation": "<p>Deletes the specified grant.</p>"
    }
  },
  "com.amazonaws.licensemanager#DeleteGrantRequest": {
    "type": "structure",
    "members": {
      "GrantArn": {
        "target": "com.amazonaws.licensemanager#Arn",
        "traits": {
          "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
          "smithy.api#required": {}
        }
      },
      "StatusReason": {
        "target": "com.amazonaws.licensemanager#StatusReasonMessage",
        "traits": {

    "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
        }
      },
      "Version": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Current version of the grant.</p>",
          "smithy.api#required": {}
        }
      }
    }
  },
  "com.amazonaws.licensemanager#DeleteGrantResponse": {
    "type": "structure",
    "members": {
      "GrantArn": {
        "target": "com.amazonaws.licensemanager#Arn",
        "traits": {
          "smithy.api#documentation": "<p>Grant ARN.</p>"
        }
      },
      "Status": {
```

"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation":
" Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
}
},
"com.amazonaws.licensemanager#DeleteLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],

"traits": {
"smithy.api#documentation": " Deletes the specified license. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license configuration. \n You cannot delete a license configuration
that is in use. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the license configuration. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {

"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified report generator. \n This action deletes the report generator, which stops it from generating future reports.\n The action cannot be reversed. It has no effect on the previous reports from this generator. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to be deleted. ",
"smithy.api#required": {}
}
}
}
},

"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#DeleteLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#DeleteLicenseResponse": {
"type": "structure",
"members": {
"Status": {
"target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"DeletionDate": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date when the license is deleted. "
}

```
            }
        }
    },
    "com.amazonaws.licensemanager#DeleteToken": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
        },
        "errors": [
            {

      "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
        }

  },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>",
```

```
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanager#DeleteTokenResponse": {
    "type": "structure",
    "members": {}
},
"com.amazonaws.licensemanager#DigitalSignatureMethod": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "JWT_PS384",
                "name": "JWT_PS384"
            }
        ]
    }
},
"com.amazonaws.licensemanager#Entitlement": {
    "type": "structure",

"members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement name.</p>",
                "smithy.api#required": {}
            }
        },
        "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement resource. Use only if the unit is None.</p>"
            }
        },
        "MaxCount": {
            "target": "com.amazonaws.licensemanager#Long",
            "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
            }
        },
        "Overage": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",

"traits": {
                "smithy.api#documentation": "<p>Indicates whether overages are allowed.</p>"
```

```
            }
          },
          "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementUnit",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement unit.</p>",
              "smithy.api#required": {}
            }
          },
          "AllowCheckIn": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>Indicates whether check-ins are allowed.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes a resource entitled for use with a license.</p>"
        }
      },
      "com.amazonaws.licensemanager#EntitlementData": {
        "type": "structure",
         "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement data name.</p>",
              "smithy.api#required": {}
            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement data value.</p>"
            }
          },
          "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement data unit.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Data associated
with an entitlement resource.</p>"
        }
```

```
},
"com.amazonaws.licensemanager#EntitlementDataList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#EntitlementData"
    }
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "Count",
                "name": "COUNT"
            },
            {
                "value": "None",
                "name": "NONE"
            },
            {
                "value": "Seconds",
                "name": "SECONDS"
            },
            {
                "value": "Microseconds",
                "name": "MICROSECONDS"
            },
            {

"value": "Milliseconds",
                "name": "MILLISECONDS"
            },
            {
                "value": "Bytes",
                "name": "BYTES"
            },
            {
                "value": "Kilobytes",
                "name": "KILOBYTES"
            },
            {
                "value": "Megabytes",
                "name": "MEGABYTES"
            },
            {
                "value": "Gigabytes",
                "name": "GIGABYTES"
            },
```

{
"value": "Terabytes",
"name": "TERABYTES"
},
{
"value": "Bits",
"name": "BITS"
},
{
"value": "Kilobits",
"name": "KILOBITS"
},
{
"value": "Megabits",
"name": "MEGABITS"
},
{
"value": "Gigabits",
"name": "GIGABITS"
},
{
"value": "Terabits",
"name": "TERABITS"
},
{
"value": "Percent",
"name": "PERCENT"
},
{
"value": "Bytes/Second",
"name": "BYTES_PER_SECOND"
},
{
"value": "Kilobytes/Second",
"name": "KILOBYTES_PER_SECOND"
},
{
"value": "Megabytes/Second",
"name": "MEGABYTES_PER_SECOND"

},
{
"value": "Gigabytes/Second",
"name": "GIGABYTES_PER_SECOND"
},
{
"value": "Terabytes/Second",
"name": "TERABYTES_PER_SECOND"

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            },
            {
                "value": "Bits/Second",
                "name": "BITS_PER_SECOND"
            },
            {
                "value": "Kilobits/Second",
                "name": "KILOBITS_PER_SECOND"
            },
            {
                "value": "Megabits/Second",
                "name": "MEGABITS_PER_SECOND"
            },
            {
                "value": "Gigabits/Second",
                "name": "GIGABITS_PER_SECOND"
            },
            {
                "value": "Terabits/Second",

"name": "TERABITS_PER_SECOND"
            },
            {
                "value": "Count/Second",
                "name": "COUNT_PER_SECOND"
            }
        ]
    }
},
"com.amazonaws.licensemanager#EntitlementList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Entitlement"
    }
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
```

"com.amazonaws.licensemanager#EntitlementUnit": {

"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "Count",
"name": "COUNT"
},
{
"value": "None",
"name": "NONE"
},
{
"value": "Seconds",
"name": "SECONDS"
},
{
"value": "Microseconds",
"name": "MICROSECONDS"
},
{
"value": "Milliseconds",
"name": "MILLISECONDS"
},
{
"value": "Bytes",
"name": "BYTES"
},
{
"value": "Kilobytes",
"name": "KILOBYTES"

},
{
"value": "Megabytes",
"name": "MEGABYTES"
},
{
"value": "Gigabytes",
"name": "GIGABYTES"
},
{
"value": "Terabytes",
"name": "TERABYTES"
},
{
"value": "Bits",

"name": "BITS"
},
{
"value": "Kilobits",
"name": "KILOBITS"
},
{
"value": "Megabits",
"name": "MEGABITS"
},
{
"value": "Gigabits",
"name": "GIGABITS"
},
{
"value": "Terabits",
"name": "TERABITS"
},
{
"value": "Percent",
"name": "PERCENT"
},
{
"value": "Bytes/Second",
"name": "BYTES_PER_SECOND"
},
{
"value": "Kilobytes/Second",
"name": "KILOBYTES_PER_SECOND"
},
{
"value": "Megabytes/Second",
"name": "MEGABYTES_PER_SECOND"
},
{
"value": "Gigabytes/Second",
"name": "GIGABYTES_PER_SECOND"
},
{
"value": "Terabytes/Second",
"name": "TERABYTES_PER_SECOND"
},
{

"value": "Bits/Second",
"name": "BITS_PER_SECOND"
},
{

```
                "value": "Kilobits/Second",
                "name": "KILOBITS_PER_SECOND"
            },
            {
                "value": "Megabits/Second",
                "name": "MEGABITS_PER_SECOND"
            },
            {
                "value": "Gigabits/Second",
                "name": "GIGABITS_PER_SECOND"
            },
            {
                "value": "Terabits/Second",
                "name": "TERABITS_PER_SECOND"
            },
            {
                "value": "Count/Second",
                "name": "COUNT_PER_SECOND"
            }
        ]
    }
},
"com.amazonaws.licensemanager#EntitlementUsage": {
    "type": "structure",

"members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                "smithy.api#required": {}
            }
        },
        "ConsumedValue": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxCount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
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            "traits": {
              "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
        }
      },
      "com.amazonaws.licensemanager#EntitlementUsageList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
      },
      "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
        },
        "errors": [
          {

        "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
```

"traits": {
"smithy.api#documentation": " Extends the expiration date for license consumption. "
}
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",
"smithy.api#required": {}
}
},
"DryRun": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#documentation": " Checks whether you have the required permissions for the action, without actually making the request. Provides an error response if you do not have the required permissions. "
}
}
}
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
"type": "structure",

"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license consumption expires. "
}
}
}
},
"com.amazonaws.licensemanager#FailedDependencyException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
},
"ErrorCode": {

"target": "com.amazonaws.licensemanager#String"
}
},

"traits": {
"aws.protocols#awsQueryError": {
"code": "FailedDependency",
"httpResponseCode": 424
},
"smithy.api#documentation": " A dependency required to run the API is missing. ",
"smithy.api#error": "client",
"smithy.api#httpError": 424
}
},
"com.amazonaws.licensemanager#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#FilterName",
"traits": {
"smithy.api#documentation": " Name of the filter. Filter names are case-sensitive. "
}
},
"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " Filter values. Filter values are case-sensitive. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter name and value pair that is used to return more specific results from a\n describe operation. Filters can be used to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FilterLimitExceeded",
"httpResponseCode": 400

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            },
            "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
            "smithy.api#error":
"client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#FilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Filter"
        }
    },
    "com.amazonaws.licensemanager#FilterName": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#FilterValue": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#FilterValues": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#FilterValue",
            "traits": {
                "smithy.api#xmlName": "item"
            }
        }
    },
    "com.amazonaws.licensemanager#Filters": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Filter",
            "traits": {
                "smithy.api#xmlName":
"item"
            }
        }
    },
    "com.amazonaws.licensemanager#GetAccessToken": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
        },
        "errors": [
            {
```

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"

}
],
"traits": {
"smithy.api#documentation": " Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access tokens\n are valid for one hour. "
}
},
"com.amazonaws.licensemanager#GetAccessTokenRequest": {
"type": "structure",
"members": {
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token, encoded as a JWT token. ",
"smithy.api#required": {}
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Token properties to validate against those present in the JWT token. "
}

}
}
},
"com.amazonaws.licensemanager#GetAccessTokenResponse": {
"type": "structure",
"members": {
"AccessToken": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Temporary access token. "

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            }
        }
    }
},
"com.amazonaws.licensemanager#GetGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
```

```
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
                "smithy.api#documentation": "<p>Grant details.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",

    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
```

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        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license
configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
```

```
    "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
      "type": "structure",
      "members": {
        "LicenseConfigurationId":
{
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
          }
        },
        "LicenseConfigurationArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
          }
        },
        "Name": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Name of the license configuration.</p>"
          }
        },
        "Description": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation":
"<p>Description of the license configuration.</p>"
          }
        },
        "LicenseCountingType": {
          "target": "com.amazonaws.licensemanager#LicenseCountingType",
          "traits": {
            "smithy.api#documentation": "<p>Dimension for which the licenses are counted.</p>"
          }
        },
        "LicenseRules": {
          "target": "com.amazonaws.licensemanager#StringList",
          "traits": {
            "smithy.api#documentation": "<p>License rules.</p>"
          }
        },
        "LicenseCount": {
          "target": "com.amazonaws.licensemanager#BoxLong",
          "traits": {
            "smithy.api#documentation": "<p>Number of available licenses.</p>"
          }
        },
        "LicenseCountHardLimit": {
```

"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Sets the number of available licenses as a hard limit. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses assigned to resources. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License configuration status. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the
owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList":
{
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "

```
            }
        },
        "AutomatedDiscoveryInformation": {
            "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
            "traits": {
                "smithy.api#documentation": "<p>Automated discovery information.</p>"
            }
        },
        "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
    "type":
 "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets
 information about the specified license type conversion task.</p>"
    }
},
```

"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information on. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted to. "

}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}

```
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
                }
            },
            "StartTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
                }
            },
            "LicenseConversionTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                 "traits": {
                    "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
                }
            },
            "EndTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation":
"<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {
            "ReportGenerator": {
                "target": "com.amazonaws.licensemanager#ReportGenerator",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic
reports about your license configurations.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetLicenseResponse": {
    "type": "structure",
    "members": {
        "License": {
            "target":
"com.amazonaws.licensemanager#License",
            "traits": {
                "smithy.api#documentation": "<p>License details.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetLicenseUsage": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
         },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageResponse":
{
        "type": "structure",
        "members": {
            "LicenseUsage": {
                "target": "com.amazonaws.licensemanager#LicenseUsage",
                "traits": {
                    "smithy.api#documentation": "<p>License usage details.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
```

{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets the License Manager settings for the current Region. "
}
},
"com.amazonaws.licensemanager#GetServiceSettingsRequest": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Regional S3 bucket path for storing reports, license trail event data, discovery data,\n and so on. "
}

},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " SNS topic configured to receive notifications from License Manager. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Indicates whether Organizations is integrated with License Manager for\n cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether cross-account discovery is enabled. "
}

```
    },
            "LicenseManagerResourceShareArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
Manager management account \n        provides member accounts with access to this share.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#Grant": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {

                   "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ParentArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Parent ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>License ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "GranteePrincipalArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The grantee principal ARN.</p>",
```

"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"Version": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. ",
"smithy.api#required": {}
}
},
"GrantedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Granted operations. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes a grant. "
}
},
"com.amazonaws.licensemanager#GrantList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Grant"
}

```
},
"com.amazonaws.licensemanager#GrantStatus": {
    "type": "string",

  "traits": {
        "smithy.api#enum": [
            {
                "value": "PENDING_WORKFLOW",
                "name": "PENDING_WORKFLOW"
            },
            {
                "value": "PENDING_ACCEPT",
                "name": "PENDING_ACCEPT"
            },
            {
                "value": "REJECTED",
                "name": "REJECTED"
            },
            {
                "value": "ACTIVE",
                "name": "ACTIVE"
            },
            {
                "value": "FAILED_WORKFLOW",
                "name": "FAILED_WORKFLOW"
            },
            {
                "value": "DELETED",
                "name": "DELETED"
            },
            {
                "value": "PENDING_DELETE",
                "name": "PENDING_DELETE"
             },
            {
                "value": "DISABLED",
                "name": "DISABLED"
            },
            {
                "value": "WORKFLOW_COMPLETED",
                "name": "WORKFLOW_COMPLETED"
            }
        ]
    }
},
"com.amazonaws.licensemanager#GrantedLicense": {
    "type": "structure",
    "members": {
```

"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. "
}

},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " Granted license issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the granted license. "

}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " Granted license status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the granted license is valid, in

ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Granted license beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Granted license metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Creation time of the granted license. "

}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Version of the granted license. "
}
},
"ReceivedMetadata": {
"target": "com.amazonaws.licensemanager#ReceivedMetadata",
"traits": {
"smithy.api#documentation": " Granted license received metadata. "
}
}
},
"traits": {

"smithy.api#documentation": " Describes a license that is granted to a grantee. "
}
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#GrantedLicense"
}
},
"com.amazonaws.licensemanager#ISO8601DateTime":
{
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
}
},
"com.amazonaws.licensemanager#Integer": {
"type": "integer",
"traits": {
"smithy.api#box": {}
}
},
"com.amazonaws.licensemanager#InvalidParameterValueException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidParameterValueProvided",

"httpResponseCode": 400
},
"smithy.api#documentation": " One or more parameter values are not valid. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#InvalidResourceStateException": {
"type": "structure",
"members": {

"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidResourceState",
"httpResponseCode": 400
},
"smithy.api#documentation": " License Manager cannot allocate a license to a resource because of its state. \n For example, you cannot allocate a license to an instance in the process of shutting\n down. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#InventoryFilter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the filter. ",
"smithy.api#required": {}
}
},
"Condition": {
"target": "com.amazonaws.licensemanager#InventoryFilterCondition",
"traits": {
"smithy.api#documentation": " Condition of the filter. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Value of the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " An inventory filter. "
}
},
"com.amazonaws.licensemanager#InventoryFilterCondition": {
"type": "string",
"traits": {

"smithy.api#enum": [
{
"value": "EQUALS",
"name": "EQUALS"
},
{
"value": "NOT_EQUALS",
"name": "NOT_EQUALS"
},
{
"value": "BEGINS_WITH",
"name": "BEGINS_WITH"
},
{
"value": "CONTAINS",
"name": "CONTAINS"
}
]
}
},
"com.amazonaws.licensemanager#InventoryFilterList":
{
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#InventoryFilter"
}
},
"com.amazonaws.licensemanager#Issuer": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. ",
"smithy.api#required": {}
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
}
},
"traits": {

"smithy.api#documentation": " Details about the issuer of a license. "
}
},
"com.amazonaws.licensemanager#IssuerDetails": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. "
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer key fingerprint. "
}
}
},
"traits": {
"smithy.api#documentation": " Details associated with the issuer of a license. "
}
},
"com.amazonaws.licensemanager#License": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. "
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " License issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "

}
},

"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " License metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License creation time. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits":
{
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#documentation": " Software license that is managed in License Manager. "
}
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
"type": "structure",
"members": {
"LicenseConfigurationId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Unique ID of the license configuration. "
}
},
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}

},
"Name": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension to use to track the license inventory. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Number of available licenses as a hard limit. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "

}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed. "
}

```
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Status of the license configuration.</p>"
                }
            },
            "OwnerAccountId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Account ID of the license configuration's owner.</p>"
                }
            },
            "ConsumedLicenseSummaryList": {
                "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",

        "traits": {
                    "smithy.api#documentation": "<p>Summaries for licenses consumed by various resources.</p>"
                }
            },
            "ManagedResourceSummaryList": {
                "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>Summaries for managed resources.</p>"
                }
            },
            "ProductInformationList": {
                "target": "com.amazonaws.licensemanager#ProductInformationList",
                "traits": {
                    "smithy.api#documentation": "<p>Product information.</p>"
                }
            },
            "AutomatedDiscoveryInformation": {
                "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
                "traits": {
                    "smithy.api#documentation": "<p>Automated
 discovery information.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A license configuration is an abstraction of a customer license
agreement that can be\n        consumed and enforced by License Manager. Components include specifications for
the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n
Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n        must be associated with a
host), and the number of licenses purchased and used.</p>"
        }
    },
```

"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name
(ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource
consuming licenses. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was associated with the
resource. "
}
},
"AmiAssociationScope":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-
account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an association with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
}

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    },
    "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "AVAILABLE",
                    "name": "AVAILABLE"
                },
                 {
                    "value": "DISABLED",
                    "name": "DISABLED"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceStatus": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {

"smithy.api#documentation": "<p>Status of the resource.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
                }
            },
            "AssociationTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time when the license configuration was initially associated with
```

the resource. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}

},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
}
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfiguration"
}
},
"com.amazonaws.licensemanager#LicenseConversionContext": {
"type": "structure",
"members": {
"UsageOperation": {
"target": "com.amazonaws.licensemanager#UsageOperation",
"traits": {
"smithy.api#documentation": " The Usage operation value that corresponds to the license type you are converting your resource from. For more information about which platforms correspond to which usage operation values see Sample data: usage operation by platform\n \n "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTask": {
"type": "structure",
"members": {

"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the license type conversion task. "
}
},
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource associated with the license type\n conversion task. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted to. "
}
},

"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " The status of the conversion task. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was started at. "
}
},
"LicenseConversionTime": {

"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " The time the usage operation value of the resource was changed. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was completed. "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTaskId": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
}
},
"com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
"type":
"string",
"traits": {
"smithy.api#enum": [
{
"value": "IN_PROGRESS",
"name": "IN_PROGRESS"
},
{
"value": "SUCCEEDED",
"name": "SUCCEEDED"
},
{
"value": "FAILED",
"name": "FAILED"
}
]
}
},
"com.amazonaws.licensemanager#LicenseConversionTasks": {

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    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#LicenseConversionTask"
    }
},
"com.amazonaws.licensemanager#LicenseCountingType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "vCPU",
                "name": "VCPU"

            },
            {
                "value": "Instance",
                "name": "INSTANCE"
            },
            {
                "value": "Core",
                "name": "CORE"
            },
            {
                "value": "Socket",
                "name": "SOCKET"
            }
        ]
    }
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "PENDING_DELETE",
                "name": "PENDING_DELETE"
            },
            {
                "value": "DELETED",
                "name": "DELETED"
            }
        ]
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#License"
```

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        }
    },
    "com.amazonaws.licensemanager#LicenseOperationFailure": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type.</p>"
                }
            },
            "ErrorMessage": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Error message.</p>"

        }
            },
            "FailureTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Failure time.</p>"
                }
            },
            "OperationName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the operation.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the
resource.</p>"
                }
            },
            "OperationRequestedBy": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

"smithy.api#documentation": " The requester is \"License Manager Automated Discovery\". "
}
},
"MetadataList": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Reserved. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the failure of a license operation. "
}
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailure"
}
},
"com.amazonaws.licensemanager#LicenseSpecification": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseSpecification"
}

```
    },
    "com.amazonaws.licensemanager#LicenseStatus":
{
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "AVAILABLE",
                    "name": "AVAILABLE"
                },
                {
                    "value": "PENDING_AVAILABLE",
                    "name": "PENDING_AVAILABLE"
                },
                {
                    "value": "DEACTIVATED",
                    "name": "DEACTIVATED"
                },
                {
                    "value": "SUSPENDED",
                    "name": "SUSPENDED"
                },
                {
                    "value": "EXPIRED",
                    "name": "EXPIRED"
                },
                {
                    "value": "PENDING_DELETE",
                    "name": "PENDING_DELETE"
                },
                {

                 "value": "DELETED",
                    "name": "DELETED"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#LicenseUsage": {
        "type": "structure",
        "members": {
            "EntitlementUsages": {
                "target": "com.amazonaws.licensemanager#EntitlementUsageList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlement usages.</p>"
                }
            }
        },
```

"traits": {
"smithy.api#documentation": " Describes the entitlement usage associated with a license. "
}
},
"com.amazonaws.licensemanager#LicenseUsageException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {

"aws.protocols#awsQueryError": {
"code": "LicenseUsageFailure",
"httpResponseCode": 412
},
"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{

"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the resource associations for the specified license configuration. \n Resource associations need not consume licenses from a license configuration. \n For example, an AMI or a stopped instance might not consume a license (depending on \n the license rules). "
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationAssociations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license configuration. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {
"target":
"com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants distributed for the specified license. "
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranteePrincipalARN</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configuration operations that failed. "
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name of the license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "

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            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse": {
        "type": "structure",
        "members": {
          "LicenseOperationFailureList": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
            "traits": {
              "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListLicenseConfigurations":
    {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
```

```
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the license configurations for your account.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
          "LicenseConfigurationArns": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
           },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "Filters": {
            "target": "com.amazonaws.licensemanager#Filters",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n                Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n                Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n
                <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement
is used. \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n
</li>\n            <li>\n                <p>\n                <code>usagelimitExceeded</code> - A Boolean value that indicates
whether the available licenses have been exceeded. \n                Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
            }
          }
        }
      },
```

```
    "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurations": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurations",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configurations.</p>"

                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasks": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target":
"com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
        }
    },
```

"com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
"type": "structure",
"members": {
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " \n Filters to scope the results. Valid filters are <code>ResourceArns</code> and <code>Status</code>.\n "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
"type": "structure",
"members": {
"LicenseConversionTasks": {
"target": "com.amazonaws.licensemanager#LicenseConversionTasks",
"traits": {
"smithy.api#documentation": " Information about the license configuration tasks for your account. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the report generators for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest": {
"type":
"structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported:
\n \n \n \n <code>LicenseConfigurationArn</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to
return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
"type": "structure",
"members": {
"ReportGenerators": {
"target": "com.amazonaws.licensemanager#ReportGeneratorList",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic reports about your license
configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
"type": "operation",
"input":
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Describes the
license configurations for the specified resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a resource that has an
associated license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",

             "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
        "type": "structure",
        "members": {
            "LicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
                }
            },
```

```
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersions": {
         "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation":
"<p>Lists all versions of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
```

"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum
number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#LicenseList",
"traits": {
"smithy.api#documentation": " License details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenses": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicensesRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicensesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{

"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses for your account. "
}
},
"com.amazonaws.licensemanager#ListLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>Status</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}

```
        }
    },
    "com.amazonaws.licensemanager#ListLicensesResponse": {
        "type": "structure",
        "members": {
            "Licenses": {

  "target": "com.amazonaws.licensemanager#LicenseList",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrants": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },

{
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists grants that are received but not accepted.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
        "type": "structure",

    "members": {
            "GrantArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>ProductSKU</code>\n            </p>\n
        </li>\n            <li>\n                <p>\n                <code>LicenseIssuerName</code>\n            </p>\n
</li>\n            <li>\n                <p>\n                <code>LicenseArn</code>\n            </p>\n            </li>\n
<li>\n                <p>\n
  <code>GrantStatus</code>\n            </p>\n            </li>\n            <li>\n                <p>\n
<code>GranterAccountId</code>\n            </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
        "type": "structure",
        "members": {
            "Grants": {
```

"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Received grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"

},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists received licenses. "

```
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
        "type": "structure",

  "members": {
            "LicenseArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>ProductSKU</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                <code>Status</code>\n                </p>\n            </li>\n
<li>\n                <p>\n                <code>Fingerprint</code>\n                </p>\n            </li>\n            <li>\n
<p>\n                <code>IssuerName</code>\n
            </p>\n            </li>\n            <li>\n                <p>\n                <code>Beneficiary</code>\n                </p>\n
        </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
        "type": "structure",
        "members": {
            "Licenses": {

  "target": "com.amazonaws.licensemanager#GrantedLicenseList",
                "traits": {
                    "smithy.api#documentation": "<p>Received license details.</p>"
                }
            },
```

```
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventory": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"

},
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FailedDependencyException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryRequest": {

        "type": "structure",
        "members": {
```

"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#InventoryFilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>application_name</code> - The name of the application. \n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n \n \n \n <code>license_included</code> - The type of license included. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n Possible values are <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n \n <code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n \n \n \n <code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account). \n \n "
}
}
}
},
"com.amazonaws.licensemanager#ListResourceInventoryResponse": {
"type": "structure",
"members": {
"ResourceInventoryList": {
"target": "com.amazonaws.licensemanager#ResourceInventoryList",
"traits":
{
"smithy.api#documentation": " Information about the resources. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",

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                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the tags for the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required":
 {}
                }
            }
        }
```

```
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the tags.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
            "TokenIds": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
```

"smithy.api#documentation": " Token IDs. "
}
},
"Filters": {
"target":
"com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filter is supported: \n
\n \n \n <code>LicenseArns</code>\n \n \n
"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListTokensResponse":
{
"type": "structure",
"members": {
"Tokens": {
"target": "com.amazonaws.licensemanager#TokenList",
"traits": {
"smithy.api#documentation": " Received token details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying license\n        consumption details by resource
 at a selected point in time. Use this action to audit the\n        current license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
```

"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>resourceArn</code> - The ARN of the license configuration resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceAccount</code> - The ID of the account that owns the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationUsageList": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#Location": {
"type": "string"
},
"com.amazonaws.licensemanager#Long": {
"type": "long",
"traits": {

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        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummary": {
    "type": "structure",
    "members": {
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
            }
        },
        "AssociationCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {
    "type": "integer",
    "traits": {
        "smithy.api#box": {},
        "smithy.api#range": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
```

```
            }
        }
    },
    "com.amazonaws.licensemanager#Message": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#Metadata": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The key name.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes key/value pairs.</p>"
        }

    },
    "com.amazonaws.licensemanager#MetadataList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Metadata"
        }
    },
    "com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>There are no entitlements found for this license, or the entitlement
maximum count is reached.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#OrganizationConfiguration": {
```

"type": "structure",
"members": {
"EnableIntegration": {
"target": "com.amazonaws.licensemanager#Boolean",

"traits": {
"smithy.api#documentation": " Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when

the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n
Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n
Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n
<code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n \n ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information for a license configuration. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
"type": "structure",
"members": {
"ProductInformationFilterName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Filter name. ",
"smithy.api#required": {}
}
},

"ProductInformationFilterValue": {
"target":
"com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " Filter value. "
}
},
"ProductInformationFilterComparator": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Logical operator. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information filters. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ProductInformationFilter"
}
},
"com.amazonaws.licensemanager#ProductInformationList": {
"type": "list",

"member": {
"target": "com.amazonaws.licensemanager#ProductInformation"
}
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
"type": "structure",
"members": {
"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the provisional configuration, in minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"com.amazonaws.licensemanager#RateLimitExceededException": {

"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"

}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "RateLimitExceeded",
"httpResponseCode": 429
},
"smithy.api#documentation": " Too many requests have been submitted. Try again after a brief wait. ",
"smithy.api#error": "client",
"smithy.api#httpError": 429
}
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
"type": "structure",
"members": {
"ReceivedStatus": {
"target": "com.amazonaws.licensemanager#ReceivedStatus",
"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {

"smithy.api#documentation": " Received status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations. "
}
}
},
"traits": {
"smithy.api#documentation": " Metadata associated with received licenses and grants. "
}
},
"com.amazonaws.licensemanager#ReceivedStatus": {
"type": "string",
"traits": {

"smithy.api#enum": [
{
"value": "PENDING_WORKFLOW",
"name": "PENDING_WORKFLOW"
},
{
"value": "PENDING_ACCEPT",
"name": "PENDING_ACCEPT"
},
{
"value": "REJECTED",
"name": "REJECTED"
},
{
"value": "ACTIVE",
"name": "ACTIVE"
},
{
"value": "FAILED_WORKFLOW",
"name": "FAILED_WORKFLOW"
},
{
"value": "DELETED",
"name": "DELETED"
},
{
"value": "DISABLED",
"name": "DISABLED"
},
{
"value": "WORKFLOW_COMPLETED",
"name": "WORKFLOW_COMPLETED"
}
]
}
},
"com.amazonaws.licensemanager#RedirectException": {
"type": "structure",
"members": {

"Location": {
"target": "com.amazonaws.licensemanager#Location",
"traits": {
"smithy.api#httpHeader": "Location"
}
},
"Message": {
"target": "com.amazonaws.licensemanager#Message"

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            }
        },
        "traits": {
            "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 308
        }
    },
    "com.amazonaws.licensemanager#RejectGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#RejectGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#RejectGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest":
{
        "type": "structure",
        "members": {
            "GrantArn": {
```

```
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanager#RejectGrantResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"

    }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#RenewType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "None",
                "name": "NONE"
            },
            {
                "value": "Weekly",
                "name": "WEEKLY"
            },
            {
                "value": "Monthly",
                "name": "MONTHLY"
            }
```

```
            ]
          }
        },
        "com.amazonaws.licensemanager#ReportContext": {
          "type": "structure",
          "members": {

    "licenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                  "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration that this generator reports on.</p>",
                  "smithy.api#required": {}
                }
              }
          },
          "traits": {
            "smithy.api#documentation": "<p>Details of the license configuration that this generator reports on.</p>"
          }
        },
        "com.amazonaws.licensemanager#ReportFrequency": {
          "type": "structure",
          "members": {
            "value": {
              "target": "com.amazonaws.licensemanager#Integer",
              "traits": {
                "smithy.api#documentation": "<p>Number of times within the frequency period that a report is generated.  \n        The only supported value is <code>1</code>.</p>"

              }
              },
              "period": {
              "target": "com.amazonaws.licensemanager#ReportFrequencyType",
              "traits": {
                "smithy.api#documentation": "<p>Time period between each report. The period can be daily, weekly, or monthly.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
          }
        },
        "com.amazonaws.licensemanager#ReportFrequencyType": {
          "type": "string",
          "traits": {
            "smithy.api#enum": [
              {
```

"value": "DAY",
"name": "DAY"
},
{
"value": "WEEK",
"name": "WEEK"
},
{
"value": "MONTH",

"name": "MONTH"
}
]
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the report generator. "
}
},
"ReportType": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports that are generated. "
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " License configuration type for this generator. "
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. "
}
},

"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}
},
"LastRunFailureReason": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Failure message for the last report generation attempt. "
}
},
"LastReportGenerationTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the last report was generated at. "
}
},
"ReportCreatorAccount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Web Services account ID used to create the report generator. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the report was created. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",

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            "traits": {
                "smithy.api#documentation": "<p>Tags associated with the report generator.</p>"
            }
        }
    },

"traits": {
        "smithy.api#documentation": "<p>Describe the details of a report generator.</p>"
    }
  },
  "com.amazonaws.licensemanager#ReportGeneratorList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportGenerator"
    }
  },
  "com.amazonaws.licensemanager#ReportGeneratorName": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 100
        }
    }
  },
  "com.amazonaws.licensemanager#ReportType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "LicenseConfigurationSummaryReport",
                "name": "LICENSE_CONFIGURATION_SUMMARY_REPORT"
            },
            {
                "value": "LicenseConfigurationUsageReport",
                 "name": "LICENSE_CONFIGURATION_USAGE_REPORT"
            }
        ]
    }
  },
  "com.amazonaws.licensemanager#ReportTypeList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportType"
    }
  },
  "com.amazonaws.licensemanager#ResourceInventory": {
    "type": "structure",
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```
        "members": {
          "ResourceId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>ID of the resource.</p>"
            }
          },
          "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
              "smithy.api#documentation": "<p>Type of resource.</p>"
            }
          },
           "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
          },
          "Platform": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Platform of the resource.</p>"
            }
          },
          "PlatformVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
            }
          },
          "ResourceOwningAccountId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation":
"<p>ID of the account that owns the resource.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about a resource.</p>"
        }
      },
      "com.amazonaws.licensemanager#ResourceInventoryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#ResourceInventory"
        }
```

```
    },
    "com.amazonaws.licensemanager#ResourceLimitExceededException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ResourceLimitExceeded",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>Your resource limits have
been exceeded.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#ResourceNotFoundException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidResource.NotFound",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>The resource cannot be found.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#ResourceType": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "EC2_INSTANCE",
                     "name": "EC2_INSTANCE"
                },
                {
                    "value": "EC2_HOST",
                    "name": "EC2_HOST"
                },
```

```
                {
                    "value": "EC2_AMI",
                    "name": "EC2_AMI"
                },
                {
                    "value": "RDS",
                    "name": "RDS"
                },
                {
                    "value": "SYSTEMS_MANAGER_MANAGED_INSTANCE",
                    "name": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#S3Location": {
        "type": "structure",
        "members": {
            "bucket": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the S3 bucket
 reports are published to.</p>"
                }
            },
            "keyPrefix": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Prefix of the S3 bucket reports are published to.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
        }
    },
    "com.amazonaws.licensemanager#ServerInternalException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InternalError",
                "httpResponseCode": 500
```

```
            },
            "smithy.api#documentation":
"<p>The server experienced an internal error. Try again.</p>",
            "smithy.api#error": "server",
            "smithy.api#httpError": 500
        }
    },
    "com.amazonaws.licensemanager#SignedToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 4096
            }
        }
    },
    "com.amazonaws.licensemanager#StatusReasonMessage": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 400
            },
            "smithy.api#pattern": "^[\\s\\S]+$"
        }
    },
    "com.amazonaws.licensemanager#String": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"

      }
    },
    "com.amazonaws.licensemanager#Tag": {
        "type": "structure",
        "members": {
            "Key": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag key.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag value.</p>"
```

```
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#String"
        }
      },
      "com.amazonaws.licensemanager#TagList":
  {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#Tag"
        }
      },
      "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },

    {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
```

```
        }
    },
    "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>One or more tags.</p>",
                    "smithy.api#required":
 {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
            "TokenType": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>"
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
```

```
            },
            "ExpirationTime": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Token expiration time, in ISO8601-UTC format.</p>"
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Data specified by the caller.</p>"
                }
            },
            "RoleArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the roles included in the
token.</p>"
                }
             },
            "Status": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token status. The possible values are
<code>AVAILABLE</code> and <code>DELETED</code>.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes a token.</p>"
        }
    },
    "com.amazonaws.licensemanager#TokenList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#TokenData"
        }
    },
    "com.amazonaws.licensemanager#TokenString": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 4096
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
```

"com.amazonaws.licensemanager#TokenType":
{
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "REFRESH_TOKEN",
"name": "REFRESH_TOKEN"
}
]
}
},
"com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The digital signature method is unsupported. Try your request again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#UntagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UntagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{

"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Removes the specified tags from the specified license configuration. "
}
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",
"traits": {
"smithy.api#documentation": " Keys identifying the tags to remove. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseConfigurationStatus": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
                "traits": {
                    "smithy.api#documentation": "<p>New status of the license configuration.</p>"
                }
            },
            "LicenseRules": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>New license rule. The only rule that you can add after you create a
license\n        configuration is licenseAffinityToHost.</p>"
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>New number of licenses managed by the license
configuration.</p>"
                }
```

```
            },
            "LicenseCountHardLimit": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>New hard limit of the number of available licenses.</p>"
                }

        },
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>New name of the license configuration.</p>"
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>New description of the license configuration.</p>"
                }
            },
            "ProductInformationList": {
                "target": "com.amazonaws.licensemanager#ProductInformationList",
                "traits": {
                    "smithy.api#documentation": "<p>New product information.</p>"
                }
            },
            "DisassociateWhenNotFound": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
```

{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates a report generator. \n After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated. "

}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to update. ",
"smithy.api#required": {}
}
},
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}

```
                }
            },
            "Type": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports to generate. The following report types are supported:</p>\n <ul>\n <li>\n <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p>\n </li>\n <li>\n <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n </li>\n </ul>",
                    "smithy.api#required": {}
                }
            },
            "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
                    "smithy.api#documentation": "<p>The report context.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportFrequency": {
                "target": "com.amazonaws.licensemanager#ReportFrequency",
                "traits": {
                    "smithy.api#documentation": "<p>Frequency by which reports are generated.</p>",
                    "smithy.api#required": {}
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientRequestToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the report generator.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {}
    },
```

"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#InvalidResourceStateException"

},
{
"target": "com.amazonaws.licensemanager#LicenseUsageException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Adds or removes the specified license configurations for the specified Amazon Web Services resource. \n You can update the license specifications of AMIs, instances, and hosts.\n You cannot update the license specifications for launch templates and CloudFormation templates, \n as they send license configurations to the operation that creates the resource. "
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon Web Services resource. ",
"smithy.api#required": {}

```
            }
        },
        "AddLicenseSpecifications": {
            "target": "com.amazonaws.licensemanager#LicenseSpecifications",
            "traits": {
                "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
            }
        },
        "RemoveLicenseSpecifications": {
            "target": "com.amazonaws.licensemanager#LicenseSpecifications",
            "traits": {
                "smithy.api#documentation": "<p>ARNs of the license configurations to remove.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {}
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
    }
```

```
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where
the License Manager information is stored.</p>"
                }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon
 Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Enables integration with Organizations for cross-account
discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Activates cross-account discovery.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#UsageOperation": {
        "type":
 "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            }
        }
    },
    "com.amazonaws.licensemanager#ValidationException": {
```

```
            "type": "structure",
            "members": {
                "Message": {
                    "target": "com.amazonaws.licensemanager#Message"
                }
            },
            "traits": {
                "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
                "smithy.api#error": "client",
                "smithy.api#httpError": 400
            }
        }
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
```

```
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string
```

```
// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

//
Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err
 != nil {
  return err
 }
```

```
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return
 nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
```

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string
```

```
 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
```

```
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
 err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
```

```
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
```

```
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

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```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
```

```
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if
 err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
```

```
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}
```

1.4091 google-cloud-go-bigtable 1.18.1

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```

```
// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 "google.golang.org/api/iterator"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 //
 It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
 }
```

```
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
```

```
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _
 = resp
}

func ExampleLicensesClient_Insert() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
```

```
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.ListLicensesRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
 resp, err := it.Next()
 if err == iterator.Done {
  break
 }
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
}

func ExampleLicensesClient_SetIamPolicy() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will
require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.SetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
}
resp, err := c.SetIamPolicy(ctx, req)
if err != nil {
 // TODO: Handle error.
```

```
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require
 specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

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```
// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
```

```
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "math"
 "net/http"
 "net/url"

 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var
 newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete:            []gax.CallOption{},
  Get:               []gax.CallOption{},
  GetIamPolicy:      []gax.CallOption{},
  Insert:            []gax.CallOption{},
  List:              []gax.CallOption{},
  SetIamPolicy:      []gax.CallOption{},
  TestIamPermissions: []gax.CallOption{},
 }
}

//
```

```
 internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

//
 LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the
```

API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy
or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use
this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This

```
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating
 Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption)
 (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
```

```
 httpClient:  httpClient,
 CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", versionGo()}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}
```

```
// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient)
 Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type",
 "application/json"))
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
```

```
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:
       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)],
```

```
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy
 or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
```

```
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata,
 md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }
```

```
  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil
 {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v", "project",
url.QueryEscape(req.GetProject())))

 headers
 := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
```

```
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return
maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-

cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial:
 true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
  }
  if req != nil && req.MaxResults != nil {
   params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
  }
  if req != nil && req.OrderBy != nil {
   params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
  }
  if req != nil && req.PageToken != nil {
   params.Add("pageToken",
 fmt.Sprintf("%v", req.GetPageToken()))
  }
  if req != nil && req.ReturnPartialSuccess != nil {
   params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
  }

  baseUrl.RawQuery = params.Encode()

  // Build HTTP headers from client and context metadata.
  headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
  e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
   if settings.Path != "" {
```

```
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil
{
  return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
```

```
 it.pageInfo.Token = req.GetPageToken()

 return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m
 := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings)
 error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
```

```
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest,
 opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))
```

```
 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true,
 DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
 items    []*computepb.License
```

```
 pageInfo *iterator.PageInfo
 nextFunc
 func() error

 // Response is the raw response for the current page.
 // It must be cast to the RPC response type.
 // Calling Next() or InternalFetch() updates this value.
 Response interface{}

 // InternalFetch is for use by the Google Cloud Libraries only.
 // It is not part of the stable interface of this package.
 //
 // InternalFetch returns results from a single call to the underlying RPC.
 // The number of results is no greater than pageSize.
 // If there are no more results, nextPageToken is empty and err is nil.
 InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
 return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it
 *LicenseIterator) Next() (*computepb.License, error) {
 var item *computepb.License
 if err := it.nextFunc(); err != nil {
  return item, err
 }
 item = it.items[0]
 it.items = it.items[1:]
 return item, nil
}

func (it *LicenseIterator) bufLen() int {
 return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
 b := it.items
 it.items = nil
 return b
}
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```

```
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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "net/http"
 "net/url"

 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get              []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
 return &LicenseCodesCallOptions{
  Get:              []gax.CallOption{},
  TestIamPermissions: []gax.CallOption{},
 }
```

```
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
 (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}
```

```
// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption) (*computepb.LicenseCode, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx
 context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx,
 clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
```

```
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go",
 versionGo()}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption)
 (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
```

```
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(),
 nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
```

```
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq,
 err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error
 {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
```

```
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
```

```
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications
 to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO:
 Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
```

```
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseCodeRequest{
 // TODO: Fill request struct fields.
 // See
https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequest.
}
resp,
err := c.TestIamPermissions(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

1.4092 grafana-gocql 0.0.0-20200605141915-ba5dc39ece85

1.4092.1 Available under license :

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1.4093 aws-sdk-go-v2-service-sso 1.11.1

1.4093.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
```

```
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
 nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
```

```
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData
```

```
 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
```

```
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err
 = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
```

```
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}
```

```
type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack,
 options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil
 {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
```

```
      uses: actions/checkout@v2
      with:
        path: sdkbase
        ref: ${{ github.base_ref }}
    - name: Checkout this ref
      uses: actions/checkout@v2
      with:
        path: new-ref
        fetch-depth: 0
    - name: Get Diff
      run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
    - name: Get Target Files
      run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
       uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
```

```
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
```

```
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity *types.DatetimeRange

 //
 Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
```

```
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
```

```
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
```

```
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
```

```
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack,
 options); err != nil {
  return err
 }
 return nil
}
```

```
func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}
```

AWS SDK for Go

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```
{
  "smithy": "1.0",
  "metadata": {
    "suppressions": [
      {
        "id": "HttpMethodSemantics",
        "namespace": "*"
      },
      {
        "id": "HttpResponseCodeSemantics",
        "namespace": "*"
      },
      {
        "id": "PaginatedTrait",
        "namespace": "*"
      },
      {
        "id": "HttpHeaderTrait",
        "namespace": "*"
      },
      {
        "id": "HttpUriConflict",
        "namespace": "*"
      },
      {
        "id": "Service",
        "namespace": "*"
      }
    ]
  },
  "shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
      "type": "service",
      "version": "2018-08-01",
      "operations": [
        {
          "target": "com.amazonaws.licensemanager#AcceptGrant"
```

},

{
"target": "com.amazonaws.licensemanager#CheckInLicense"
},
{
"target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
},
{
"target": "com.amazonaws.licensemanager#CheckoutLicense"
},
{
"target": "com.amazonaws.licensemanager#CreateGrant"
},
{
"target": "com.amazonaws.licensemanager#CreateGrantVersion"
},
{
"target": "com.amazonaws.licensemanager#CreateLicense"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseVersion"
},
{
"target": "com.amazonaws.licensemanager#CreateToken"
},
{
"target": "com.amazonaws.licensemanager#DeleteGrant"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicense"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
},
{

"target": "com.amazonaws.licensemanager#DeleteToken"
},
{
"target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

},
{
"target": "com.amazonaws.licensemanager#GetAccessToken"
},
{
"target": "com.amazonaws.licensemanager#GetGrant"
},
{
"target": "com.amazonaws.licensemanager#GetLicense"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseUsage"
},
{
"target": "com.amazonaws.licensemanager#GetServiceSettings"
},
{
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#ListDistributedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},

{
"target": "com.amazonaws.licensemanager#ListLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

"target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListResourceInventory"
},
{
"target": "com.amazonaws.licensemanager#ListTagsForResource"
},
{
"target": "com.amazonaws.licensemanager#ListTokens"
},
{
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#RejectGrant"
},
{
"target": "com.amazonaws.licensemanager#TagResource"
},
{
"target": "com.amazonaws.licensemanager#UntagResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateServiceSettings"

```
            }
        ],
        "traits": {
            "aws.api#service": {
                "sdkId": "License Manager",
                "arnNamespace": "license-manager",
                "cloudFormationName": "LicenseManager",
                "cloudTrailEventSource": "licensemanager.amazonaws.com",
                "endpointPrefix":
 "license-manager"
            },
            "aws.auth#sigv4": {
                "name": "license-manager"
            },
            "aws.protocols#awsJson1_1": {},
            "smithy.api#documentation": "<p>License Manager makes it easier to manage licenses from software
vendors across multiple \n        Amazon Web Services accounts and on-premises servers.</p>",
            "smithy.api#title": "AWS License Manager",
            "smithy.api#xmlNamespace": {
                "uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
            }
        }
    },
    "com.amazonaws.licensemanager#AcceptGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#AcceptGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
        },
        "errors": [
            {

           "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantRequest":
{
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant
status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        }
    },
```

```
    "com.amazonaws.licensemanager#AccessDeniedException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "aws.protocols#awsQueryError": {
          "code": "ServiceAccessDenied",
          "httpResponseCode": 401
        },
        "smithy.api#documentation": "<p>Access to resource denied.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 401
      }
    },
    "com.amazonaws.licensemanager#AllowedOperation":
{
      "type": "string",
      "traits": {
        "smithy.api#enum": [
          {
            "value": "CreateGrant",
            "name": "CREATE_GRANT"
          },
          {
            "value": "CheckoutLicense",
            "name": "CHECKOUT_LICENSE"
          },
          {
            "value": "CheckoutBorrowLicense",
            "name": "CHECKOUT_BORROW_LICENSE"
          },
          {
            "value": "CheckInLicense",
            "name": "CHECK_IN_LICENSE"
          },
          {
            "value": "ExtendConsumptionLicense",
            "name": "EXTEND_CONSUMPTION_LICENSE"
          },
          {
            "value": "ListPurchasedLicenses",
            "name": "LIST_PURCHASED_LICENSES"
           },
          {
            "value": "CreateToken",
```

"name": "CREATE_TOKEN"
}
]
}
},
"com.amazonaws.licensemanager#AllowedOperationList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#AllowedOperation"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 7
}
}
},
"com.amazonaws.licensemanager#Arn": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
}
},
"com.amazonaws.licensemanager#ArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
}
},
"com.amazonaws.licensemanager#AuthorizationException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "AuthorizationFailure",
"httpResponseCode": 403
},
"smithy.api#documentation": " The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n policy associated with this account. ",

```
            "smithy.api#error": "client",
            "smithy.api#httpError": 403
        }
    },
    "com.amazonaws.licensemanager#AutomatedDiscoveryInformation":
{
        "type": "structure",
        "members": {
            "LastRunTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes automated discovery.</p>"
        }
    },
    "com.amazonaws.licensemanager#Boolean": {
        "type": "boolean"
    },
    "com.amazonaws.licensemanager#BorrowConfiguration": {
        "type": "structure",
        "members": {
            "AllowEarlyCheckIn": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether early check-ins are allowed.</p>",
                     "smithy.api#required": {}
                }
            },
            "MaxTimeToLiveInMinutes": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#BoxBoolean": {
        "type": "boolean",
        "traits": {
            "smithy.api#box": {}
```

```
    }
  },
  "com.amazonaws.licensemanager#BoxInteger": {
    "type": "integer",
    "traits": {
      "smithy.api#box": {}
    }
  },
  "com.amazonaws.licensemanager#BoxLong": {

 "type": "long",
    "traits": {
      "smithy.api#box": {}
    }
  },
  "com.amazonaws.licensemanager#CheckInLicense": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#ConflictException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
       },
      {
        "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      },
      {
        "target": "com.amazonaws.licensemanager#ValidationException"
      }
```

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",

        "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },

 {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                 "traits": {
                    "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
                    "smithy.api#required": {}
                }
            },
```

"DigitalSignatureMethod": {
"target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
"traits": {
"smithy.api#documentation": " Digital signature method. The possible value is JSON Web Signature (JWS) algorithm PS384.\n For more information, see RFC 7518 Digital Signature with RSASSA-PSS. ",
"smithy.api#required": {}
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",

"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},

"EntitlementsAllowed": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " Allowed license entitlements. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"SignedToken": {

"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation":
" Information about constraints. "
}
}
}
},
"com.amazonaws.licensemanager#CheckoutLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks out the specified license. "
}
},
"com.amazonaws.licensemanager#CheckoutLicenseRequest": {
"type": "structure",
"members": {
"ProductSKU":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. ",
"smithy.api#required": {}
}
},

"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. ",
"smithy.api#required": {}
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Key fingerprint identifying the license. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Node ID. "
}
}
}
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
"type": "structure",
"members": {
"CheckoutType": {

"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation":
" Allowed license entitlements. "
}
},
"SignedToken": {
"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",

"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the checkout license. "
}

```
            }
        }
    },
    "com.amazonaws.licensemanager#CheckoutType": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "PROVISIONAL",
                    "name": "PROVISIONAL"
                },
                {
                    "value": "PERPETUAL",
                    "name": "PERPETUAL"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#ClientRequestToken":
{
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max": 36
            }
        }
    },
    "com.amazonaws.licensemanager#ClientToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 2048
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
    "com.amazonaws.licensemanager#ConflictException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ConflictException",
```

"httpResponseCode": 409
},
"smithy.api#documentation": " There
was a conflict processing the request. Try your request again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 409
}
},
"com.amazonaws.licensemanager#ConsumedLicenseSummary": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Resource type of the resource consuming a license. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about license consumption. "
}
},
"com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
}
},
"com.amazonaws.licensemanager#ConsumptionConfiguration": {
"type": "structure",
"members": {
"RenewType": {
"target": "com.amazonaws.licensemanager#RenewType",
"traits": {
"smithy.api#documentation": " Renewal frequency. "
}
},
"ProvisionalConfiguration": {
"target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}

```
            },
            "BorrowConfiguration": {

                "target": "com.amazonaws.licensemanager#BorrowConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },

        {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of license entitlements with specific Amazon Web Services accounts.</p>"
```

```
        }
    },
    "com.amazonaws.licensemanager#CreateGrantRequest": {
        "type": "structure",
        "members": {

  "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientToken",
            "traits": {
                "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                "smithy.api#required": {}
            }
        },
        "GrantName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant name.</p>",
                "smithy.api#required": {}
            }
        },
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
        },

      "Principals": {
            "target": "com.amazonaws.licensemanager#PrincipalArnList",
            "traits": {
                "smithy.api#documentation": "<p>The grant principals.</p>",
                "smithy.api#required": {}
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "AllowedOperations": {
            "target": "com.amazonaws.licensemanager#AllowedOperationList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed operations for the grant.</p>",
                "smithy.api#required": {}
```

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                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateGrantResponse":
{
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersion": {
        "type": "operation",
        "input": {

  "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
```

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a new version of the specified grant. "
}
},
"com.amazonaws.licensemanager#CreateGrantVersionRequest": {
"type": "structure",
"members": {
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. "
}
},
"Status": {

"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",

"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the grant. "
}
}
}
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant
status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New version of the grant. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseRequest"

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    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a license.</p>"
    }
},
"com.amazonaws.licensemanager#CreateLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license configuration.</p> \n        <p>A license configuration is an abstraction of a customer license
 agreement that can be\n        consumed and enforced by License Manager. Components include specifications for the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), license affinity  to host (how long a \n        license must be associated with a host), and the number of licenses purchased and used.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Description of the license configuration.</p>"
                }
            },
            "LicenseCountingType": {
                "target": "com.amazonaws.licensemanager#LicenseCountingType",
                "traits": {
                    "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
                }
```

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            },
            "LicenseCountHardLimit": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {

        "smithy.api#documentation": "<p>Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n        blocks the launch of new instances.</p>"
                }
            },
            "LicenseRules": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n        vary by dimension, as follows.</p>\n <ul>\n        <li>\n            <p>\n                <code>Cores</code> dimension: <code>allowedTenancy</code> |\n        <code>licenseAffinityToHost</code> |\n            <code>maximumCores</code> | <code>minimumCores</code>\n            </p>\n        </li>\n        <li>\n            <p>\n <code>Instances</code> dimension: <code>allowedTenancy</code> | \n            <code>maximumCores</code> | <code>minimumCores</code> |\n            <code>maximumSockets</code> | <code>minimumSockets</code> |\n            <code>maximumVcpus</code> | <code>minimumVcpus</code>\n            </p>\n        </li>\n <li>\n            <p>\n                <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n <code>licenseAffinityToHost</code> |\n            <code>maximumSockets</code> | <code>minimumSockets</code>\n            </p>\n        </li>\n        <li>\n            <p>\n <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n <code>honorVcpuOptimization</code> | \n            <code>maximumVcpus</code> | <code>minimumVcpus</code>\n            </p>\n        </li>\n        </ul>\n        <p>The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n        values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n        <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n        <code>True</code> and <code>False</code>.</p>"
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Tags to add to the license configuration.</p>"
                }
            },
            "DisassociateWhenNotFound": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>When true, disassociates a resource when software is uninstalled.</p>"
                }
            },
            "ProductInformationList": {
                "target": "com.amazonaws.licensemanager#ProductInformationList",
                "traits":
```

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{
                "smithy.api#documentation": "<p>Product information.</p>"
            }
        }
    }
  },
  "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse": {
    "type": "structure",
    "members": {
      "LicenseConfigurationArn": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
        }
      }
    }
  },
  "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
     },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      },
      {
        "target": "com.amazonaws.licensemanager#ValidationException"
      }
    ],
    "traits": {
      "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
    }
```

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    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest":
 {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting
from. \n        For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the AWS
CLI</a> in the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            },
            "DestinationLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting to.
For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the AWS
CLI</a> in the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
        "type": "operation",
```

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        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "ReportGeneratorName": {
                "target":
"com.amazonaws.licensemanager#ReportGeneratorName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>",
                    "smithy.api#required": {}
                }
            },
            "Type": {
```

"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types an be generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}
}
},

"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " Defines the type of license configuration the report generator tracks. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
}

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    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
      "type": "structure",
      "members": {
        "LicenseManagerReportGeneratorArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits":
 {
            "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the new report
generator.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#CreateLicenseRequest": {
      "type": "structure",
      "members": {
        "LicenseName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License name.</p>",
            "smithy.api#required": {}
          }
        },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product name.</p>",
            "smithy.api#required": {}
          }
        },
        "ProductSKU": {
          "target": "com.amazonaws.licensemanager#String",
           "traits": {
            "smithy.api#documentation": "<p>Product SKU.</p>",
            "smithy.api#required": {}
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#Issuer",
          "traits": {
            "smithy.api#documentation": "<p>License issuer.</p>",
            "smithy.api#required": {}
          }
        },
        "HomeRegion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
```

"smithy.api#documentation": " Home Region for the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation":
" Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {

"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}

```
}
        }
      }
    },
    "com.amazonaws.licensemanager#CreateLicenseResponse": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#LicenseStatus",
          "traits": {
            "smithy.api#documentation": "<p>License status.</p>"
          }
        },
        "Version": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License version.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersion":
{
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#ConflictException"
        },
        {
```

```
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License name.</p>",
                "smithy.api#required": {}
            }
        },
        "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product name.</p>",
                "smithy.api#required": {}
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#Issuer",
            "traits": {
                "smithy.api#documentation": "<p>License issuer.</p>",
                "smithy.api#required": {}
```

```
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation":
 "<p>Home Region of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "Validity": {
            "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {
                "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
                "smithy.api#required": {}
            }
        },
        "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license.</p>"
            }
        },
        "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
            "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>",
                 "smithy.api#required": {}
            }
        },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n         running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n         usage.</p>",
                "smithy.api#required": {}
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>",
                "smithy.api#required": {}
            }
        },
        "ClientToken": {
```

"target":
"com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. "
}
},

"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New version of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
}
}
},
"com.amazonaws.licensemanager#CreateToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateTokenResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a long-lived token. \n A refresh token is a JWT token used to get an access token. With an access token,\n you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n call License Manager to manage the specified license. "
}
},
"com.amazonaws.licensemanager#CreateTokenRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n JWT token. ",
"smithy.api#required": {}
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the IAM roles to embed

in the token. \n License Manager does not check whether the roles are in use. "
}
},
"ExpirationInDays": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Token expiration, in days, counted from token creation. The default is 365 days. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller to be included in the JWT token. The data is mapped\n to the amr claim of the JWT token. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Idempotency token, valid for 10 minutes. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CreateTokenResponse": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. "
}
},
"TokenType": {
"target": "com.amazonaws.licensemanager#TokenType",
"traits": {
"smithy.api#documentation": " Token type. "
}
},
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token, encoded as a JWT token. "
}

```
            }
        }
    },
    "com.amazonaws.licensemanager#DateTime": {
        "type": "timestamp"
    },
    "com.amazonaws.licensemanager#DatetimeRange": {
        "type": "structure",
        "members": {
            "Begin": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Start of the time range.</p>",
                    "smithy.api#required": {}
                }
            },
            "End": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>End of the time range.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC
format.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

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        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

    },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Deletes the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#DeleteGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "StatusReason": {
            "target": "com.amazonaws.licensemanager#StatusReasonMessage",
            "traits": {

    "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Current version of the grant.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanager#DeleteGrantResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
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                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation":
"<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#DeleteLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
         },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
```

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            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
         },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license configuration.</p> \n          <p>You cannot delete a license configuration
 that is in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license configuration.</p>",
                    "smithy.api#required": {}
                }
```

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            }
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

         "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified report generator.</p>\n        <p>This action
deletes the report generator, which stops it from generating future reports.\n        The action cannot be reversed. It
has no effect on the previous reports from this generator.</p>"
        }
    },
```

"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to be deleted. ",
"smithy.api#required": {}
}
}
}
},

"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#DeleteLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#DeleteLicenseResponse":
{
"type": "structure",
"members": {
"Status": {
"target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"DeletionDate": {

"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date when the license is deleted. "
}
}
}
},
"com.amazonaws.licensemanager#DeleteToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteTokenResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified token. Must be called in the license home Region. "
}

},
"com.amazonaws.licensemanager#DeleteTokenRequest": {
"type": "structure",
"members": {

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        "TokenId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token ID.</p>",
                "smithy.api#required": {}
            }
        }
    }
  },
  "com.amazonaws.licensemanager#DeleteTokenResponse": {
    "type": "structure",
    "members": {}
  },
  "com.amazonaws.licensemanager#DigitalSignatureMethod": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "JWT_PS384",
                "name": "JWT_PS384"
            }
        ]
    }
  },
  "com.amazonaws.licensemanager#Entitlement": {
    "type": "structure",

"members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement name.</p>",
                "smithy.api#required": {}
            }
        },
        "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement resource. Use only if the unit is None.</p>"
            }
        },
        "MaxCount": {
            "target": "com.amazonaws.licensemanager#Long",
            "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
            }
        },
        "Overage": {
```

"target": "com.amazonaws.licensemanager#BoxBoolean",

"traits": {
"smithy.api#documentation": " Indicates whether overages are allowed. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementUnit",
"traits": {
"smithy.api#documentation": " Entitlement unit. ",
"smithy.api#required": {}
}
},
"AllowCheckIn": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether check-ins are allowed. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a resource entitled for use with a license. "
}
},
"com.amazonaws.licensemanager#EntitlementData": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data value. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {
"smithy.api#documentation": " Entitlement data unit. ",
"smithy.api#required": {}
}
}
},

"traits": {
"smithy.api#documentation": " Data associated
with an entitlement resource. "
}
},
"com.amazonaws.licensemanager#EntitlementDataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#EntitlementData"
}
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "Count",
"name": "COUNT"
},
{
"value": "None",
"name": "NONE"
},
{
"value": "Seconds",
"name": "SECONDS"
},
{
"value": "Microseconds",
"name": "MICROSECONDS"
},
{

"value": "Milliseconds",
"name": "MILLISECONDS"
},
{
"value": "Bytes",
"name": "BYTES"
},
{
"value": "Kilobytes",
"name": "KILOBYTES"
},
{
"value": "Megabytes",
"name": "MEGABYTES"
},

```
            {
              "value": "Gigabytes",
              "name": "GIGABYTES"
            },
            {
              "value": "Terabytes",
              "name": "TERABYTES"
            },
            {
              "value": "Bits",
              "name": "BITS"
            },
            {
              "value": "Kilobits",
              "name": "KILOBITS"
             },
            {
              "value": "Megabits",
              "name": "MEGABITS"
            },
            {
              "value": "Gigabits",
              "name": "GIGABITS"
            },
            {
              "value": "Terabits",
              "name": "TERABITS"
            },
            {
              "value": "Percent",
              "name": "PERCENT"
            },
            {
              "value": "Bytes/Second",
              "name": "BYTES_PER_SECOND"
            },
            {
              "value": "Kilobytes/Second",
              "name": "KILOBYTES_PER_SECOND"
            },
            {
              "value": "Megabytes/Second",
              "name": "MEGABYTES_PER_SECOND"

        },
            {
              "value": "Gigabytes/Second",
              "name": "GIGABYTES_PER_SECOND"
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            },
            {
                "value": "Terabytes/Second",
                "name": "TERABYTES_PER_SECOND"
            },
            {
                "value": "Bits/Second",
                "name": "BITS_PER_SECOND"
            },
            {
                "value": "Kilobits/Second",
                "name": "KILOBITS_PER_SECOND"
            },
            {
                "value": "Megabits/Second",
                "name": "MEGABITS_PER_SECOND"
            },
            {
                "value": "Gigabits/Second",
                "name": "GIGABITS_PER_SECOND"
            },
            {
                "value": "Terabits/Second",

"name": "TERABITS_PER_SECOND"
            },
            {
                "value": "Count/Second",
                "name": "COUNT_PER_SECOND"
            }
        ]
    }
},
"com.amazonaws.licensemanager#EntitlementList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Entitlement"
    }
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
```

```
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#EntitlementUnit": {

 "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "Count",
                "name": "COUNT"
            },
            {
                "value": "None",
                "name": "NONE"
            },
            {
                "value": "Seconds",
                "name": "SECONDS"
            },
            {
                "value": "Microseconds",
                "name": "MICROSECONDS"
            },
            {
                "value": "Milliseconds",
                "name": "MILLISECONDS"
            },
            {
                "value": "Bytes",
                "name": "BYTES"
            },
            {
                "value": "Kilobytes",
                "name": "KILOBYTES"

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            {
                "value": "Megabytes",
                "name": "MEGABYTES"
            },
            {
                "value": "Gigabytes",
                "name": "GIGABYTES"
            },
            {
                "value": "Terabytes",
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"name": "TERABYTES"
},
{
"value": "Bits",
"name": "BITS"
},
{
"value": "Kilobits",
"name": "KILOBITS"
},
{
"value": "Megabits",
"name": "MEGABITS"
},
{
"value": "Gigabits",
"name": "GIGABITS"
},
{
"value": "Terabits",
"name": "TERABITS"
},
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"value": "Percent",
"name": "PERCENT"
},
{
"value": "Bytes/Second",
"name": "BYTES_PER_SECOND"
},
{
"value": "Kilobytes/Second",
"name": "KILOBYTES_PER_SECOND"
},
{
"value": "Megabytes/Second",
"name": "MEGABYTES_PER_SECOND"
},
{
"value": "Gigabytes/Second",
"name": "GIGABYTES_PER_SECOND"
},
{
"value": "Terabytes/Second",
"name": "TERABYTES_PER_SECOND"
},
{

"value": "Bits/Second",
"name": "BITS_PER_SECOND"
},
{
"value": "Kilobits/Second",
"name": "KILOBITS_PER_SECOND"
},
{
"value": "Megabits/Second",
"name": "MEGABITS_PER_SECOND"
},
{
"value": "Gigabits/Second",
"name": "GIGABITS_PER_SECOND"
},
{
"value": "Terabits/Second",
"name": "TERABITS_PER_SECOND"
},
{
"value": "Count/Second",
"name": "COUNT_PER_SECOND"
}
]
}
},
"com.amazonaws.licensemanager#EntitlementUsage": {
"type": "structure",

"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement usage name. ",
"smithy.api#required": {}
}
},
"ConsumedValue": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Resource usage consumed. ",
"smithy.api#required": {}
}
},
"MaxCount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Maximum entitlement usage count. "

```
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
    }
},
"com.amazonaws.licensemanager#EntitlementUsageList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#EntitlementUsage"
    }
},
"com.amazonaws.licensemanager#ExtendLicenseConsumption": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
    },
    "errors": [
        {

    "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
```

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            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}
                }
            },
            "DryRun": {
                "target": "com.amazonaws.licensemanager#Boolean",
                "traits": {
                    "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
        "type": "structure",

        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>"
                }
            },
            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#FailedDependencyException": {
        "type": "structure",
        "members": {
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"Message": {
"target": "com.amazonaws.licensemanager#Message"
},
"ErrorCode": {
"target": "com.amazonaws.licensemanager#String"
}
},

"traits": {
"aws.protocols#awsQueryError": {
"code": "FailedDependency",
"httpResponseCode": 424
},
"smithy.api#documentation": " A dependency required to run the API is missing. ",
"smithy.api#error": "client",
"smithy.api#httpError": 424
}
},
"com.amazonaws.licensemanager#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#FilterName",
"traits": {
"smithy.api#documentation": " Name of the filter. Filter names are case-sensitive. "
}
},
"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " Filter values. Filter values are case-sensitive. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter name and value pair that is used to return more specific results from a\n describe operation. Filters can be used to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},

"traits": {
"aws.protocols#awsQueryError": {
"code": "FilterLimitExceeded",
"httpResponseCode": 400
},
"smithy.api#documentation": " The request uses too many filters or too many filter values. ",
"smithy.api#error":
"client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter"
}
},
"com.amazonaws.licensemanager#FilterName": {
"type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
"type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#FilterValue",
"traits": {
"smithy.api#xmlName": "item"
}
}
},
"com.amazonaws.licensemanager#Filters": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter",
"traits": {
"smithy.api#xmlName":
"item"
}
}
},
"com.amazonaws.licensemanager#GetAccessToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"

}
],
"traits": {
"smithy.api#documentation": " Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access tokens\n are valid for one hour. "
}
},
"com.amazonaws.licensemanager#GetAccessTokenRequest": {
"type": "structure",
"members": {
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token, encoded as a JWT token. ",
"smithy.api#required": {}
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Token properties to validate against those present in the JWT token. "
}

}
}
},
"com.amazonaws.licensemanager#GetAccessTokenResponse": {
"type": "structure",
"members": {

```
        "AccessToken": {
            "target": "com.amazonaws.licensemanager#TokenString",
            "traits": {
                "smithy.api#documentation": "<p>Temporary access token.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
```

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            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
                "smithy.api#documentation": "<p>Grant details.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",

    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license
configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
```

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            }
          }
        }
      },
      "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
          "LicenseConfigurationId":
{
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
            }
          },
          "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
          },
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Name of the license configuration.</p>"
            }
          },
          "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation":
"<p>Description of the license configuration.</p>"
            }
          },
          "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
              "smithy.api#documentation": "<p>Dimension for which the licenses are counted.</p>"
            }
          },
          "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
              "smithy.api#documentation": "<p>License rules.</p>"
            }
          },
          "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
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"smithy.api#documentation": " Number of available licenses. "
}
},
"LicenseCountHardLimit": {

"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Sets the number of available licenses as a hard limit. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses assigned to resources. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License configuration status. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the
owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList":

{
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {

"smithy.api#documentation": " Gets
information about the specified license type conversion task. "
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information
on. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license
type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license
conversion task is associated with. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted to. "

}
},
"StatusMessage": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " Status of the license type conversion task. "
}
},
"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was started . "
}
},
"LicenseConversionTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Amount of time to complete the license type conversion. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was completed. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{

"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation":
" Gets information about the specified report generator. "
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"ReportGenerator": {
"target": "com.amazonaws.licensemanager#ReportGenerator",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic
reports about your license configurations. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {

```
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
              "smithy.api#required": {}
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License version.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#GetLicenseResponse": {
        "type": "structure",
        "members": {
          "License": {
            "target":
"com.amazonaws.licensemanager#License",
            "traits": {
              "smithy.api#documentation": "<p>License details.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#GetLicenseUsage": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
```

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the usage of the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseUsageRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseUsageResponse":
{
"type": "structure",
"members": {
"LicenseUsage": {
"target": "com.amazonaws.licensemanager#LicenseUsage",
"traits": {
"smithy.api#documentation": " License usage details. "
}
}
}
},
"com.amazonaws.licensemanager#GetServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"

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            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },

  {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
discovery data,\n        and so on.</p>"
                }

            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>SNS topic configured to receive notifications from License
Manager.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether Organizations is integrated with License
Manager for\n        cross-account discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
```

"smithy.api#documentation": " Indicates whether cross-account discovery is enabled. "
}

},
"LicenseManagerResourceShareArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource share. The License Manager management account \n provides member accounts with access to this share. "
}
}
}
},
"com.amazonaws.licensemanager#Grant": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"ParentArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Parent ARN. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. ",
"smithy.api#required": {}
}
},
"GranteePrincipalArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {

"smithy.api#documentation": " The grantee principal ARN. ",

"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"Version": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. ",
"smithy.api#required": {}
}
},
"GrantedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Granted operations. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes a grant. "
}
},
"com.amazonaws.licensemanager#GrantList": {
"type": "list",
"member": {

"target": "com.amazonaws.licensemanager#Grant"
}
},
"com.amazonaws.licensemanager#GrantStatus": {
"type": "string",

"traits": {
"smithy.api#enum": [
{
"value": "PENDING_WORKFLOW",
"name": "PENDING_WORKFLOW"
},
{
"value": "PENDING_ACCEPT",
"name": "PENDING_ACCEPT"
},
{
"value": "REJECTED",
"name": "REJECTED"
},
{
"value": "ACTIVE",
"name": "ACTIVE"
},
{
"value": "FAILED_WORKFLOW",
"name": "FAILED_WORKFLOW"
},
{
"value": "DELETED",
"name": "DELETED"
},
{
"value": "PENDING_DELETE",
"name": "PENDING_DELETE"
},
{
"value": "DISABLED",
"name": "DISABLED"
},
{
"value": "WORKFLOW_COMPLETED",
"name": "WORKFLOW_COMPLETED"
}
]
}
},
"com.amazonaws.licensemanager#GrantedLicense": {

"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. "
}

},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " Granted license issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the granted license. "

}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " Granted license status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",

"traits": {
"smithy.api#documentation": " Date and time range during which the granted license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Granted license beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Granted license metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Creation time of the granted license. "

}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Version of the granted license. "
}
},
"ReceivedMetadata": {
"target": "com.amazonaws.licensemanager#ReceivedMetadata",
"traits": {
"smithy.api#documentation": " Granted license received metadata. "
}
}

```
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes a license that is granted to a grantee.</p>"
        }
    },
    "com.amazonaws.licensemanager#GrantedLicenseList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#GrantedLicense"
        }
    },
    "com.amazonaws.licensemanager#ISO8601DateTime":
{
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            },
            "smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-
1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[ 0-3]|[0-1][0-9]):[0-5][0-9])+$"
        }
    },
    "com.amazonaws.licensemanager#Integer": {
        "type": "integer",
        "traits": {
            "smithy.api#box": {}
        }
    },
    "com.amazonaws.licensemanager#InvalidParameterValueException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidParameterValueProvided",

 "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>One or more parameter values are not valid.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InvalidResourceStateException": {
```

"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidResourceState",
"httpResponseCode": 400
},
"smithy.api#documentation": " License Manager cannot allocate a license to a resource because of its state. \n For example, you cannot allocate a license to an instance in the process of shutting\n down. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#InventoryFilter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the filter. ",
"smithy.api#required": {}
}
},
"Condition": {
"target": "com.amazonaws.licensemanager#InventoryFilterCondition",
"traits": {
"smithy.api#documentation": " Condition of the filter. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Value of the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " An inventory filter. "
}
},
"com.amazonaws.licensemanager#InventoryFilterCondition": {

"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "EQUALS",
"name": "EQUALS"
},
{
"value": "NOT_EQUALS",
"name": "NOT_EQUALS"
},
{
"value": "BEGINS_WITH",
"name": "BEGINS_WITH"
},
{
"value": "CONTAINS",
"name": "CONTAINS"
}
]
}
},
"com.amazonaws.licensemanager#InventoryFilterList":
{
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#InventoryFilter"
}
},
"com.amazonaws.licensemanager#Issuer": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. ",
"smithy.api#required": {}
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
}
},

"traits": {

"smithy.api#documentation": " Details about the issuer of a license. "
}
},
"com.amazonaws.licensemanager#IssuerDetails": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. "
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer key fingerprint. "
}
}
},
"traits": {
"smithy.api#documentation": " Details associated with the issuer of a license. "
}
},
"com.amazonaws.licensemanager#License": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. "
}
},

"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " License issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "

```
            }
            },
            "ConsumptionConfiguration": {
                "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
                }
            },
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>License metadata.</p>"
                }
            },
            "CreateTime": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>License creation time.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits":
{
                    "smithy.api#documentation": "<p>License version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfiguration": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
```

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        },
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>"
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the license configuration.</p>"
                }
            },
            "LicenseCountingType": {
                "target": "com.amazonaws.licensemanager#LicenseCountingType",
                "traits": {
                    "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
                }
            },
            "LicenseRules": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {

                    "smithy.api#documentation": "<p>License rules.</p>"
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
                }
            },
            "LicenseCountHardLimit": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Number of available licenses as a hard limit.</p>"
                }
            },
            "DisassociateWhenNotFound": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"

    }
            },
            "ConsumedLicenses": {
                "target": "com.amazonaws.licensemanager#BoxLong",
```

"traits": {
"smithy.api#documentation": " Number of licenses consumed. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the license configuration. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the license configuration's owner. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",

"traits": {
"smithy.api#documentation": " Summaries for licenses consumed by various resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated
discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license
agreement that can be\n consumed and enforced by License Manager. Components include specifications for
the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n
Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a

host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name
(ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource
consuming licenses. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was associated with the
resource. "
}
},
"AmiAssociationScope":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-
account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an association with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
"type": "list",

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        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "AVAILABLE",
                    "name": "AVAILABLE"
                },
                 {
                    "value": "DISABLED",
                    "name": "DISABLED"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceStatus": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {

"smithy.api#documentation": "<p>Status of the resource.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
                }
            },
            "AssociationTime": {
```

"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was initially associated with the resource. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}

},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
}
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfiguration"
}
},
"com.amazonaws.licensemanager#LicenseConversionContext": {
"type": "structure",
"members": {
"UsageOperation": {
"target": "com.amazonaws.licensemanager#UsageOperation",
"traits": {
"smithy.api#documentation": " The Usage operation value that corresponds to the license type you are converting your resource from. For more information about which platforms correspond to which usage operation values see Sample data: usage operation by platform\n \n "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},

"com.amazonaws.licensemanager#LicenseConversionTask": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the license type conversion task. "
}
},
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource associated with the license type\n conversion task. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted to. "
}
},

"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " The status of the conversion task. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was started at. "

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                }
            },
            "LicenseConversionTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {

        "smithy.api#documentation": "<p>The time the usage operation value of the resource was changed.</p>"
                }
            },
            "EndTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTaskId": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            },
            "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
        "type":
"string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "IN_PROGRESS",
                    "name": "IN_PROGRESS"
                },
                {
                    "value": "SUCCEEDED",
                    "name": "SUCCEEDED"
                },
                {
                    "value": "FAILED",
                    "name": "FAILED"
                }
            ]
```

```
    }
},
"com.amazonaws.licensemanager#LicenseConversionTasks": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#LicenseConversionTask"
    }
},
"com.amazonaws.licensemanager#LicenseCountingType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "vCPU",
                "name": "VCPU"

            },
            {
                "value": "Instance",
                "name": "INSTANCE"
            },
            {
                "value": "Core",
                "name": "CORE"
            },
            {
                "value": "Socket",
                "name": "SOCKET"
            }
        ]
    }
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "PENDING_DELETE",
                "name": "PENDING_DELETE"
            },
            {
                "value": "DELETED",
                "name": "DELETED"
            }
        ]
    }
},
"com.amazonaws.licensemanager#LicenseList": {
```

"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#License"
}
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Resource type. "
}
},
"ErrorMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Error message. "

}
},
"FailureTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Failure time. "
}
},
"OperationName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the operation. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource. "
}
},
"OperationRequestedBy": {
"target": "com.amazonaws.licensemanager#String",

"traits": {

"smithy.api#documentation": " The requester is \"License Manager Automated Discovery\". "
}
},
"MetadataList": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Reserved. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the failure of a license operation. "
}
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailure"
}
},
"com.amazonaws.licensemanager#LicenseSpecification": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {

"target": "com.amazonaws.licensemanager#LicenseSpecification"
}
},
"com.amazonaws.licensemanager#LicenseStatus":
{
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "AVAILABLE",
"name": "AVAILABLE"
},
{
"value": "PENDING_AVAILABLE",
"name": "PENDING_AVAILABLE"
},
{
"value": "DEACTIVATED",
"name": "DEACTIVATED"
},
{
"value": "SUSPENDED",
"name": "SUSPENDED"
},
{
"value": "EXPIRED",
"name": "EXPIRED"
},
{
"value": "PENDING_DELETE",
"name": "PENDING_DELETE"
},
{

"value": "DELETED",
"name": "DELETED"
}
]
}
},
"com.amazonaws.licensemanager#LicenseUsage": {
"type": "structure",
"members": {
"EntitlementUsages": {
"target": "com.amazonaws.licensemanager#EntitlementUsageList",
"traits": {
"smithy.api#documentation": " License entitlement usages. "
}

```
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes the entitlement usage associated with a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseUsageException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {

         "aws.protocols#awsQueryError": {
                "code": "LicenseUsageFailure",
                "httpResponseCode": 412
            },
            "smithy.api#documentation": "<p>You do not have enough licenses available to support a new resource
launch.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 412
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the resource associations for the specified license
configuration.</p> \n        <p>Resource associations need not consume licenses from a license configuration. \n
For example, an AMI or a stopped instance might not consume a license (depending on \n        the license
rules).</p>"
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest":
 {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                 }
            }
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationAssociations": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the associations for the license
configuration.</p>"
                }
            },
            "NextToken": {
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"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {
"target":
"com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants distributed for the specified license. "
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {

"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranteePrincipalARN</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},

"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configuration operations that failed. "
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name of the license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",

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                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse": {
        "type": "structure",
        "members": {
            "LicenseOperationFailureList": {
                "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
                "traits": {
                    "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurations":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

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        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the license configurations for your account.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
    "type": "structure",
    "members": {
        "LicenseConfigurationArns": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "Filters": {
            "target": "com.amazonaws.licensemanager#Filters",
            "traits": {
                "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n                Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n                Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n
                <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement
is used. \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n
</li>\n            <li>\n                <p>\n                <code>usagelimitExceeded</code> - A Boolean value that indicates
whether the available licenses have been exceeded. \n                Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
            }
        }
    }
```

```
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurations": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurations",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configurations.</p>"

                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasks": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target":
"com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
        }
```

```
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
        "type": "structure",
        "members": {
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                 "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>\n        Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n      </p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTasks": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configuration tasks for your
account.</p>"
                 }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
        },
```

"output": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the report generators for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest": {
"type":
"structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported:
\n \n \n \n <code>LicenseConfigurationArn</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to
return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
"type": "structure",
"members": {
"ReportGenerators": {
"target": "com.amazonaws.licensemanager#ReportGeneratorList",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic reports about your license
configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
"type": "operation",
"input":
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{

"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Describes the
license configurations for the specified resource. "
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a resource that has an
associated license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {
"LicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " License configurations associated with a resource. "
}

```
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersions": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation":
"<p>Lists all versions of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
```

```
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum
number of results to return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
        "type": "structure",
        "members": {
            "Licenses": {
                "target": "com.amazonaws.licensemanager#LicenseList",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenses": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicensesRequest"
        },
         "output": {
            "target": "com.amazonaws.licensemanager#ListLicensesResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the licenses for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicensesRequest": {
        "type": "structure",
        "members": {
            "LicenseArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>Beneficiary</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                <code>ProductSKU</code>\n                </p>\n            </li>\n
    <li>\n                <p>\n
        <code>Fingerprint</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>Status</code>\n                </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
```

```
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicensesResponse": {
        "type": "structure",
        "members": {
            "Licenses": {

    "target": "com.amazonaws.licensemanager#LicenseList",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrants": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },

{
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists grants that are received but not accepted.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
        "type": "structure",

    "members": {
            "GrantArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>ProductSKU</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                <code>LicenseIssuerName</code>\n                </p>\n
</li>\n            <li>\n                <p>\n                <code>LicenseArn</code>\n                </p>\n            </li>\n
<li>\n                <p>\n
  <code>GrantStatus</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>GranterAccountId</code>\n                </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
        "type": "structure",
        "members": {
```

"Grants": {

"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Received grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"

},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {

"smithy.api#documentation": " Lists received licenses. "
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
"type": "structure",

"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>IssuerName</code>\n
\n \n \n \n <code>Beneficiary</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {

"target": "com.amazonaws.licensemanager#GrantedLicenseList",
"traits": {
"smithy.api#documentation": " Received license details. "
}

```
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
  },
  "com.amazonaws.licensemanager#ListResourceInventory": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"

},
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#FailedDependencyException"
        },
        {
            "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
    }
  },
  "com.amazonaws.licensemanager#ListResourceInventoryRequest": {
```

"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#InventoryFilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>application_name</code> - The name of the application. \n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n \n \n \n <code>license_included</code> - The type of license included. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n Possible values are <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n \n <code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n \n \n \n <code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account). \n \n "
}
}
}
},
"com.amazonaws.licensemanager#ListResourceInventoryResponse": {
"type": "structure",
"members": {
"ResourceInventoryList": {
"target": "com.amazonaws.licensemanager#ResourceInventoryList",
"traits":
{
"smithy.api#documentation": " Information about the resources. "
}
},

"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListTagsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the tags for the specified license configuration. "
}
},
"com.amazonaws.licensemanager#ListTagsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required":
{}
}

```
            }
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the tags.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
            "TokenIds": {
```

"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " Token IDs. "
}
},
"Filters": {
"target":
"com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filter is supported: \n
\n \n \n <code>LicenseArns</code>\n \n \n
"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListTokensResponse":
{
"type": "structure",
"members": {
"Tokens": {
"target": "com.amazonaws.licensemanager#TokenList",
"traits": {
"smithy.api#documentation": " Received token details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfiguration": {
"type": "operation",

"input": {
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists all license usage records for a license configuration, displaying license\n consumption details by resource
at a selected point in time. Use this action to audit the\n current license consumption for any license inventory and configuration. "
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "

```
            }
        },
        "NextToken": {

            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "Filters": {
            "target": "com.amazonaws.licensemanager#Filters",
            "traits": {
                "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>resourceArn</code> - The ARN of the license configuration resource.\n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n
    <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> |
<code>EC2_HOST</code> | <code>EC2_AMI</code> |
<code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>).
 \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n
    <li>\n                <p>\n                <code>resourceAccount</code> - The ID of the account that owns the
resource. \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n
</li>\n        </ul>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
    "type": "structure",
    "members": {
        "LicenseConfigurationUsageList": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license configurations.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#Location": {
    "type": "string"
},
"com.amazonaws.licensemanager#Long": {
```

```
    "type": "long",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummary": {
    "type": "structure",
    "members": {
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
            }
        },
        "AssociationCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {
    "type": "integer",
    "traits": {
        "smithy.api#box": {},
        "smithy.api#range": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
```

```
                "min": 0,
                "max": 3
            }
        }
    },
    "com.amazonaws.licensemanager#Message": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#Metadata": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The key name.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes key/value pairs.</p>"
        }

    },
    "com.amazonaws.licensemanager#MetadataList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Metadata"
        }
    },
    "com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>There are no entitlements found for this license, or the entitlement
maximum count is reached.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
```

```
    },
    "com.amazonaws.licensemanager#OrganizationConfiguration": {
      "type": "structure",
      "members": {
        "EnableIntegration": {
          "target": "com.amazonaws.licensemanager#Boolean",

       "traits": {
            "smithy.api#documentation": "<p>Enables Organizations integration.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Configuration information for Organizations.</p>"
      }
    },
    "com.amazonaws.licensemanager#PrincipalArnList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#Arn"
      },
      "traits": {
        "smithy.api#length": {
          "min": 1,
          "max": 1
        }
      }
    },
    "com.amazonaws.licensemanager#ProductInformation": {
      "type": "structure",
      "members": {
        "ResourceType": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {

 "smithy.api#documentation": "<p>Resource type. The possible values are <code>SSM_MANAGED</code> |
<code>RDS</code>.</p>",
            "smithy.api#required": {}
          }
        },
        "ProductInformationFilterList": {
          "target": "com.amazonaws.licensemanager#ProductInformationFilterList",
          "traits": {
            "smithy.api#documentation": "<p>A Product information filter consists of a
<code>ProductInformationFilterComparator</code> which is a logical operator, a
<code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a
<code>ProductInformationFilterValue</code> that specifies the value to filter on. </p>\n        <p>Accepted values
```

for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n
Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n
Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n
<code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n \n ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information for a license configuration. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
"type": "structure",
"members": {
"ProductInformationFilterName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Filter name. ",
"smithy.api#required": {}

```
            }
          },
          "ProductInformationFilterValue": {
            "target":
"com.amazonaws.licensemanager#StringList",
            "traits": {
              "smithy.api#documentation": "<p>Filter value.</p>"
            }
          },
          "ProductInformationFilterComparator": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Logical operator.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes product information filters.</p>"
        }
      },
      "com.amazonaws.licensemanager#ProductInformationFilterList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#ProductInformationFilter"
        }
      },
      "com.amazonaws.licensemanager#ProductInformationList": {
        "type": "list",

        "member": {
          "target": "com.amazonaws.licensemanager#ProductInformation"
        }
      },
      "com.amazonaws.licensemanager#ProvisionalConfiguration": {
        "type": "structure",
        "members": {
          "MaxTimeToLiveInMinutes": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
        }
```

```
    },
    "com.amazonaws.licensemanager#RateLimitExceededException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"

      }
      },
      "traits": {
        "aws.protocols#awsQueryError": {
          "code": "RateLimitExceeded",
          "httpResponseCode": 429
        },
        "smithy.api#documentation": "<p>Too many requests have been submitted. Try again after a brief
wait.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 429
      }
    },
    "com.amazonaws.licensemanager#ReceivedMetadata": {
      "type": "structure",
      "members": {
        "ReceivedStatus": {
          "target": "com.amazonaws.licensemanager#ReceivedStatus",
          "traits": {
            "smithy.api#documentation": "<p>Received status.</p>"
          }
        },
        "ReceivedStatusReason": {
          "target": "com.amazonaws.licensemanager#StatusReasonMessage",
          "traits": {

      "smithy.api#documentation": "<p>Received status reason.</p>"
          }
        },
        "AllowedOperations": {
          "target": "com.amazonaws.licensemanager#AllowedOperationList",
          "traits": {
            "smithy.api#documentation": "<p>Allowed operations.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Metadata associated with received licenses and grants.</p>"
      }
    },
    "com.amazonaws.licensemanager#ReceivedStatus": {
```

```
      "type": "string",
      "traits": {
        "smithy.api#enum": [
          {
            "value": "PENDING_WORKFLOW",
            "name": "PENDING_WORKFLOW"
          },
          {
            "value": "PENDING_ACCEPT",
            "name": "PENDING_ACCEPT"
          },
           {
            "value": "REJECTED",
            "name": "REJECTED"
          },
          {
            "value": "ACTIVE",
            "name": "ACTIVE"
          },
          {
            "value": "FAILED_WORKFLOW",
            "name": "FAILED_WORKFLOW"
          },
          {
            "value": "DELETED",
            "name": "DELETED"
          },
          {
            "value": "DISABLED",
            "name": "DISABLED"
          },
          {
            "value": "WORKFLOW_COMPLETED",
            "name": "WORKFLOW_COMPLETED"
          }
        ]
      }
    },
    "com.amazonaws.licensemanager#RedirectException": {
      "type": "structure",
      "members": {

  "Location": {
          "target": "com.amazonaws.licensemanager#Location",
          "traits": {
            "smithy.api#httpHeader": "Location"
          }
        },
```

```
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 308
        }
    },
    "com.amazonaws.licensemanager#RejectGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#RejectGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#RejectGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest":
{
        "type": "structure",
```

```
    "members": {
      "GrantArn": {
        "target": "com.amazonaws.licensemanager#Arn",
        "traits": {
          "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
          "smithy.api#required": {}
        }
      }
    }
  },
  "com.amazonaws.licensemanager#RejectGrantResponse": {
    "type": "structure",
    "members": {
      "GrantArn": {
        "target": "com.amazonaws.licensemanager#Arn",
        "traits": {
          "smithy.api#documentation": "<p>Grant ARN.</p>"
        }
      },
      "Status": {
        "target": "com.amazonaws.licensemanager#GrantStatus",
        "traits": {
          "smithy.api#documentation": "<p>Grant status.</p>"

    }
      },
      "Version": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Grant version.</p>"
        }
      }
    }
  },
  "com.amazonaws.licensemanager#RenewType": {
    "type": "string",
    "traits": {
      "smithy.api#enum": [
        {
          "value": "None",
          "name": "NONE"
        },
        {
          "value": "Weekly",
          "name": "WEEKLY"
        },
        {
          "value": "Monthly",
```

"name": "MONTHLY"
}
]
}
},
"com.amazonaws.licensemanager#ReportContext": {
"type": "structure",
"members": {

"licenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details of the license configuration that this generator reports on. "
}
},
"com.amazonaws.licensemanager#ReportFrequency": {
"type": "structure",
"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "

}
},
"period": {
"target": "com.amazonaws.licensemanager#ReportFrequencyType",
"traits": {
"smithy.api#documentation": " Time period between each report. The period can be daily, weekly, or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"com.amazonaws.licensemanager#ReportFrequencyType": {
"type": "string",
"traits": {

```
        "smithy.api#enum": [
            {
                "value": "DAY",
                "name": "DAY"
            },
            {
                "value": "WEEK",
                "name": "WEEK"
            },
            {
                "value": "MONTH",

        "name": "MONTH"
            }
        ]
    }
},
"com.amazonaws.licensemanager#ReportGenerator": {
    "type": "structure",
    "members": {
        "ReportGeneratorName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the report generator.</p>"
            }
        },
        "ReportType": {
            "target": "com.amazonaws.licensemanager#ReportTypeList",
            "traits": {
                "smithy.api#documentation": "<p>Type of reports that are generated.</p>"
            }
        },
        "ReportContext": {
            "target": "com.amazonaws.licensemanager#ReportContext",
            "traits": {
                "smithy.api#documentation": "<p>License configuration type for this generator.</p>"
             }
        },
        "ReportFrequency": {
            "target": "com.amazonaws.licensemanager#ReportFrequency",
            "traits": {
                "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
            }
        },
        "LicenseManagerReportGeneratorArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>"
```

}
},
"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}
},
"LastRunFailureReason": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Failure message for the last report generation attempt. "
}
},
"LastReportGenerationTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the last report was generated at. "
}
},
"ReportCreatorAccount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Web Services account ID used to create the report generator. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the report was created. "
}
},

```
        "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
                "smithy.api#documentation": "<p>Tags associated with the report generator.</p>"
            }
        }
    },

"traits": {
        "smithy.api#documentation": "<p>Describe the details of a report generator.</p>"
    }
  },
  "com.amazonaws.licensemanager#ReportGeneratorList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportGenerator"
    }
  },
  "com.amazonaws.licensemanager#ReportGeneratorName": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 100
        }
    }
  },
  "com.amazonaws.licensemanager#ReportType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "LicenseConfigurationSummaryReport",
                "name": "LICENSE_CONFIGURATION_SUMMARY_REPORT"
            },
            {
                "value": "LicenseConfigurationUsageReport",
                 "name": "LICENSE_CONFIGURATION_USAGE_REPORT"
            }
        ]
    }
  },
  "com.amazonaws.licensemanager#ReportTypeList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportType"
    }
  },
```

```
    "com.amazonaws.licensemanager#ResourceInventory": {
        "type": "structure",
        "members": {
            "ResourceId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
             "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "Platform": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform of the resource.</p>"
                }
            },
            "PlatformVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
                }
            },
            "ResourceOwningAccountId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>ID of the account that owns the resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ResourceInventoryList": {
        "type": "list",
        "member": {
```

"target": "com.amazonaws.licensemanager#ResourceInventory"
}
},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ResourceLimitExceeded",
"httpResponseCode": 400
},
"smithy.api#documentation": " Your resource limits have
been exceeded. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidResource.NotFound",
"httpResponseCode": 400
},
"smithy.api#documentation": " The resource cannot be found. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#ResourceType": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "EC2_INSTANCE",
"name": "EC2_INSTANCE"
},
{
"value": "EC2_HOST",

"name": "EC2_HOST"
},
{
"value": "EC2_AMI",
"name": "EC2_AMI"
},
{
"value": "RDS",
"name": "RDS"
},
{
"value": "SYSTEMS_MANAGER_MANAGED_INSTANCE",
"name": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
}
]
}
},
"com.amazonaws.licensemanager#S3Location": {
"type": "structure",
"members": {
"bucket": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the S3 bucket
reports are published to. "
}
},
"keyPrefix": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Prefix of the S3 bucket reports are published to. "
}
}
},
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published
to. "
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {

```
            "code": "InternalError",
            "httpResponseCode": 500
          },
          "smithy.api#documentation":
"<p>The server experienced an internal error. Try again.</p>",
          "smithy.api#error": "server",
          "smithy.api#httpError": 500
        }
      },
      "com.amazonaws.licensemanager#SignedToken": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 4096
          }
        }
      },
      "com.amazonaws.licensemanager#StatusReasonMessage": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 0,
            "max": 400
          },
          "smithy.api#pattern": "^[\\s\\S]+$"
        }
      },
      "com.amazonaws.licensemanager#String": {
        "type": "string"
      },
      "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#String"

       }
      },
      "com.amazonaws.licensemanager#Tag": {
        "type": "structure",
        "members": {
          "Key": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Tag key.</p>"
            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " Tag value. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a tag for a license configuration. "
}
},
"com.amazonaws.licensemanager#TagKeyList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#String"
}
},
"com.amazonaws.licensemanager#TagList":
{
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Tag"
}
},
"com.amazonaws.licensemanager#TagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#TagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#TagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},

{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],

"traits": {
"smithy.api#documentation": " Adds the specified tags to the specified license configuration. "
}
},
"com.amazonaws.licensemanager#TagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " One or more tags. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#TagResourceResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#TokenData": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. "
}
},
"TokenType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Type of token generated. The supported value is <code>REFRESH_TOKEN</code>. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"ExpirationTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Token expiration time, in ISO8601-UTC format. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller. "
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the roles included in the token. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a token. "
}
},
"com.amazonaws.licensemanager#TokenList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#TokenData"
}
},
"com.amazonaws.licensemanager#TokenString": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 4096
},
"smithy.api#pattern": "^\\S+$"

```
        }
    },
    "com.amazonaws.licensemanager#TokenType":
{
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "REFRESH_TOKEN",
                    "name": "REFRESH_TOKEN"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The digital signature method is unsupported. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#UntagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UntagResourceRequest"
         },
        "output": {
            "target": "com.amazonaws.licensemanager#UntagResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Removes the specified tags from the specified license
configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#UntagResourceRequest":
 {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "TagKeys": {
                "target": "com.amazonaws.licensemanager#TagKeyList",
                "traits": {
                    "smithy.api#documentation": "<p>Keys identifying the tags to remove.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#UntagResourceResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfiguration": {

        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseConfigurationStatus": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
                "traits": {
                    "smithy.api#documentation": "<p>New status of the license configuration.</p>"
                }
            },
            "LicenseRules": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>New license rule. The only rule that you can add after you create a
license\n        configuration is licenseAffinityToHost.</p>"
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>New number of licenses managed by the license
```

configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}

},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"

},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates a report generator. \n After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated. "

}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to update. ",
"smithy.api#required": {}
}
},
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {

"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types are supported: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " The report context. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse": {
"type": "structure",

"members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#InvalidResourceStateException"

},
{
"target": "com.amazonaws.licensemanager#LicenseUsageException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Adds or removes the specified license configurations for the specified Amazon Web Services resource. \n You can update the license specifications of AMIs, instances, and hosts.\n You cannot update the license specifications for launch templates and CloudFormation templates, \n as they send license configurations to the operation that creates the resource. "
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon Web Services

resource. ",
"smithy.api#required": {}
}
},
"AddLicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " ARNs of the license configurations to add. "
}
},
"RemoveLicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " ARNs of the license configurations to remove. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {

"smithy.api#documentation": " Updates License Manager settings for the current Region. "
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
"type": "structure",
"members": {
"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon S3 bucket where the License Manager information is stored. "
}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Enables integration with Organizations for cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Activates cross-account discovery. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UsageOperation": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
}
}

```
        },
        "com.amazonaws.licensemanager#ValidationException": {
            "type": "structure",
            "members": {
                "Message": {
                    "target": "com.amazonaws.licensemanager#Message"
                }
            },
            "traits": {
                "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
                "smithy.api#error": "client",
                "smithy.api#httpError": 400
            }
        }
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {
```

```
 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string
```

```
// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

//
Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err
```

```
 != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return
 nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
```

```
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter
```

```
 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
```

```
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
 err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
```

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {
```

```
 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
```

```
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

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```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
```

```
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
```

```
 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if
 err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
```

```
 err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}
```

1.4094 aws-sdk-go-v2-service-internal-presigned-url 1.9.1

1.4094.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
```

```
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
```

```
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
 nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
```

```
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
```

```
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err
```

```
 = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
```

```
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack,
 options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil
 {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
```

```
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
     - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
       with:
         python-version: ${{ matrix.python-version }}
     # ScanCode
     - name: Self-configure scancode
       working-directory: ./scancode-toolkit
```

```
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string
```

```
// Unique, case-sensitive identifier that you provide to ensure
the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
```

```
 Validity *types.DatetimeRange

 //
 Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
```

```
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
```

```
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string
```

```
 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
 middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
```

```
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
```

```
 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}
```

AWS SDK for Go

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```
{
   "smithy": "1.0",
   "metadata": {
       "suppressions": [
           {
               "id": "HttpMethodSemantics",
               "namespace": "*"
           },
           {
               "id": "HttpResponseCodeSemantics",
               "namespace": "*"
           },
           {
               "id": "PaginatedTrait",
               "namespace": "*"
           },
```

```
        {
          "id": "HttpHeaderTrait",
          "namespace": "*"
        },
        {
          "id": "HttpUriConflict",
          "namespace": "*"
        },
        {
          "id": "Service",
          "namespace": "*"
        }
    ]
  },
  "shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
      "type": "service",
      "version": "2018-08-01",
      "operations": [
        {
          "target": "com.amazonaws.licensemanager#AcceptGrant"
        },

 {
          "target": "com.amazonaws.licensemanager#CheckInLicense"
        },
        {
          "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
        },
        {
          "target": "com.amazonaws.licensemanager#CheckoutLicense"
        },
        {
          "target": "com.amazonaws.licensemanager#CreateGrant"
        },
        {
          "target": "com.amazonaws.licensemanager#CreateGrantVersion"
        },
        {
          "target": "com.amazonaws.licensemanager#CreateLicense"
        },
        {
          "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
        },
        {
          "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
        },
        {
```

"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseVersion"
},
{
"target": "com.amazonaws.licensemanager#CreateToken"
},
{
"target": "com.amazonaws.licensemanager#DeleteGrant"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicense"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#DeleteToken"
},
{
"target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

},
{
"target": "com.amazonaws.licensemanager#GetAccessToken"
},
{
"target": "com.amazonaws.licensemanager#GetGrant"
},
{
"target": "com.amazonaws.licensemanager#GetLicense"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseUsage"
},

{
"target": "com.amazonaws.licensemanager#GetServiceSettings"
},
{
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#ListDistributedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
"target": "com.amazonaws.licensemanager#ListLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

"target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListResourceInventory"
},
{
"target": "com.amazonaws.licensemanager#ListTagsForResource"
},
{
"target": "com.amazonaws.licensemanager#ListTokens"
},
{
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"

```
            },
            {
                "target": "com.amazonaws.licensemanager#RejectGrant"
            },
            {
                "target": "com.amazonaws.licensemanager#TagResource"
             },
            {
                "target": "com.amazonaws.licensemanager#UntagResource"
            },
            {
                "target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
            },
            {
                "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
            },
            {
                "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
            },
            {
                "target": "com.amazonaws.licensemanager#UpdateServiceSettings"
            }
        ],
        "traits": {
            "aws.api#service": {
                "sdkId": "License Manager",
                "arnNamespace": "license-manager",
                "cloudFormationName": "LicenseManager",
                "cloudTrailEventSource": "licensemanager.amazonaws.com",
                "endpointPrefix":
 "license-manager"
            },
            "aws.auth#sigv4": {
                "name": "license-manager"
            },
            "aws.protocols#awsJson1_1": {},
            "smithy.api#documentation": "<p>License Manager makes it easier to manage licenses from software
vendors across multiple \n        Amazon Web Services accounts and on-premises servers.</p>",
            "smithy.api#title": "AWS License Manager",
            "smithy.api#xmlNamespace": {
                "uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
            }
        }
    },
    "com.amazonaws.licensemanager#AcceptGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#AcceptGrantRequest"
```

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
        },
        "errors": [
            {

           "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantRequest":
{
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantResponse": {
        "type": "structure",
        "members": {
```

```
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant
status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#AccessDeniedException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ServiceAccessDenied",
                "httpResponseCode": 401
            },
            "smithy.api#documentation": "<p>Access to resource denied.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 401
        }
    },
    "com.amazonaws.licensemanager#AllowedOperation":
{
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "CreateGrant",
                    "name": "CREATE_GRANT"
                },
                {
```

"value": "CheckoutLicense",
"name": "CHECKOUT_LICENSE"
},
{
"value": "CheckoutBorrowLicense",
"name": "CHECKOUT_BORROW_LICENSE"
},
{
"value": "CheckInLicense",
"name": "CHECK_IN_LICENSE"
},
{
"value": "ExtendConsumptionLicense",
"name": "EXTEND_CONSUMPTION_LICENSE"
},
{
"value": "ListPurchasedLicenses",
"name": "LIST_PURCHASED_LICENSES"
},
{
"value": "CreateToken",
"name": "CREATE_TOKEN"
}
]
}
},
"com.amazonaws.licensemanager#AllowedOperationList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#AllowedOperation"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 7
}
}
},
"com.amazonaws.licensemanager#Arn": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"

```
            }
        },
        "com.amazonaws.licensemanager#ArnList": {
            "type": "list",
            "member": {
                "target": "com.amazonaws.licensemanager#Arn"
            }
        },
        "com.amazonaws.licensemanager#AuthorizationException": {
            "type": "structure",
            "members": {
                "Message": {
                    "target": "com.amazonaws.licensemanager#Message"
                }
            },
            "traits": {
                "aws.protocols#awsQueryError": {
                    "code": "AuthorizationFailure",
                    "httpResponseCode": 403
                },
                "smithy.api#documentation": "<p>The Amazon Web Services user account does not have permission to
perform the action. Check the IAM\n        policy associated with this account.</p>",
                "smithy.api#error": "client",
                "smithy.api#httpError": 403
            }
        },
        "com.amazonaws.licensemanager#AutomatedDiscoveryInformation":
 {
            "type": "structure",
            "members": {
                "LastRunTime": {
                    "target": "com.amazonaws.licensemanager#DateTime",
                    "traits": {
                        "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
                    }
                }
            },
            "traits": {
                "smithy.api#documentation": "<p>Describes automated discovery.</p>"
            }
        },
        "com.amazonaws.licensemanager#Boolean": {
            "type": "boolean"
        },
        "com.amazonaws.licensemanager#BorrowConfiguration": {
            "type": "structure",
            "members": {
                "AllowEarlyCheckIn": {
```

"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether early check-ins are allowed. ",
"smithy.api#required": {}
}
},
"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the borrow configuration, in minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details about a borrow configuration. "
}
},
"com.amazonaws.licensemanager#BoxBoolean": {
"type": "boolean",
"traits": {
"smithy.api#box": {}
}
},
"com.amazonaws.licensemanager#BoxInteger": {
"type": "integer",
"traits": {
"smithy.api#box": {}
}
},
"com.amazonaws.licensemanager#BoxLong": {

"type": "long",
"traits": {
"smithy.api#box": {}
}
},
"com.amazonaws.licensemanager#CheckInLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",

        "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
```

"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],

"traits": {
"smithy.api#documentation": " Checks out the specified license for offline use. "
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The license must use the borrow consumption configuration. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. Partial checkouts are not supported. ",
"smithy.api#required": {}
}
},
"DigitalSignatureMethod": {
"target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
"traits": {
"smithy.api#documentation": " Digital signature method. The possible value is JSON Web Signature (JWS) algorithm PS384.\n For more information, see RFC 7518 Digital Signature with RSASSA-PSS. ",
"smithy.api#required": {}
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the

idempotency of the request. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",

"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " Allowed license entitlements. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"SignedToken": {

"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout is issued. "
}
},
"Expiration": {

"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation":
" Information about constraints. "
}
}
}
},
"com.amazonaws.licensemanager#CheckoutLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},

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            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutLicenseRequest": {
        "type": "structure",
        "members": {
            "ProductSKU":
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "CheckoutType": {
                "target": "com.amazonaws.licensemanager#CheckoutType",
                "traits": {
                    "smithy.api#documentation": "<p>Checkout type.</p>",
                    "smithy.api#required": {}
                }
            },
            "KeyFingerprint": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Key fingerprint identifying the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                 "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",
                    "smithy.api#required": {}
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
```

"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Node ID. "
}
}
}
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
"type": "structure",
"members": {
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation":
" Allowed license entitlements. "
}
},
"SignedToken": {
"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",

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            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        },
        "IssuedAt": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
            }
        },
        "Expiration": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",

             "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
            }
        },
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CheckoutType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "PROVISIONAL",
                "name": "PROVISIONAL"
            },
            {
                "value": "PERPETUAL",
                "name": "PERPETUAL"
            }
        ]
    }
},
"com.amazonaws.licensemanager#ClientRequestToken":
{
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 36
        }
```

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            }
        },
        "com.amazonaws.licensemanager#ClientToken": {
            "type": "string",
            "traits": {
                "smithy.api#length": {
                    "min": 0,
                    "max": 2048
                },
                "smithy.api#pattern": "^\\S+$"
            }
        },
        "com.amazonaws.licensemanager#ConflictException": {
            "type": "structure",
            "members": {
                "Message": {
                    "target": "com.amazonaws.licensemanager#Message"
                }
            },
            "traits": {
                "aws.protocols#awsQueryError": {
                    "code": "ConflictException",
                    "httpResponseCode": 409
                },
                "smithy.api#documentation": "<p>There
was a conflict processing the request. Try your request again.</p>",
                "smithy.api#error": "client",
                "smithy.api#httpError": 409
            }
        },
        "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
            "type": "structure",
            "members": {
                "ResourceType": {
                    "target": "com.amazonaws.licensemanager#ResourceType",
                    "traits": {
                        "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
                    }
                },
                "ConsumedLicenses": {
                    "target": "com.amazonaws.licensemanager#BoxLong",
                    "traits": {
                        "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
                    }
                }
            },
            "traits": {
                "smithy.api#documentation": "<p>Details about license consumption.</p>"
```

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    }
},
"com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
    }
},
"com.amazonaws.licensemanager#ConsumptionConfiguration": {
    "type": "structure",
    "members": {
        "RenewType": {
            "target": "com.amazonaws.licensemanager#RenewType",
            "traits": {
                "smithy.api#documentation": "<p>Renewal frequency.</p>"
            }
        },
        "ProvisionalConfiguration": {
            "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
            }
        },
        "BorrowConfiguration": {

            "target": "com.amazonaws.licensemanager#BorrowConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
    }
},
"com.amazonaws.licensemanager#CreateGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
```

"target": "com.amazonaws.licensemanager#AuthorizationException"
},

{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a grant for the specified license. A grant shares the use of license entitlements with specific Amazon Web Services accounts. "
}
},
"com.amazonaws.licensemanager#CreateGrantRequest": {
"type": "structure",
"members": {

"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}

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            }
          },

        "Principals": {
            "target": "com.amazonaws.licensemanager#PrincipalArnList",
            "traits": {
                "smithy.api#documentation": "<p>The grant principals.</p>",
                "smithy.api#required": {}
            }
          },
          "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the grant.</p>",
                "smithy.api#required": {}
            }
          },
          "AllowedOperations": {
            "target": "com.amazonaws.licensemanager#AllowedOperationList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed operations for the grant.</p>",
                "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanager#CreateGrantResponse":
{
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
          }
```

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        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersion": {
        "type": "operation",
        "input": {

  "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

              "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
```

```
            }
        },
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                 "smithy.api#required": {}
            }
        },
        "GrantName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant name.</p>"
            }
        },
        "AllowedOperations": {
            "target": "com.amazonaws.licensemanager#AllowedOperationList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "StatusReason": {
            "target": "com.amazonaws.licensemanager#StatusReasonMessage",

       "traits": {
                "smithy.api#documentation": "<p>Grant status reason.</p>"
            }
        },
        "SourceVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Current version of the grant.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
```

"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant
status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New version of the grant. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}

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        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license configuration.</p> \n        <p>A license configuration is an abstraction of a customer license
 agreement that can be\n        consumed and enforced by License Manager. Components include specifications for the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), license affinity  to host (how long a \n        license must be associated with a host), and the number of licenses purchased and used.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

"smithy.api#documentation": " Name of the license configuration. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension used to track the license inventory. ",
"smithy.api#required": {}
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {

"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows. \n \n \n \n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n <code>licenseAffinityToHost</code> |\n <code>maximumCores</code> | <code>minimumCores</code>\n \n \n \n \n <code>Instances</code> dimension: <code>allowedTenancy</code> | \n <code>maximumCores</code> | <code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n \n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n <code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code>\n \n \n \n \n <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n <code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n The unit for

<code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the license configuration. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
},
"errors": [

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            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest":
{
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting
from. \n        For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the AWS
CLI</a> in the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            },
            "DestinationLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
```

"smithy.api#documentation": " Information that identifies the license type you are converting to. For the structure of the destination license, see Convert a license type using the AWS CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the created license type conversion task. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{

"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a report generator. "
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target":
"com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types an be generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}
}
},

"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " Defines the type of license configuration the report generator tracks. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}

```
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientRequestToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide
to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the report generator.</p>"
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Tags to add to the report generator.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits":
{
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the new report
generator.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " Product name. ",
"smithy.api#required": {}
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits": {
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region for the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation":
" Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},

"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {

"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}

}
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}

```
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersion":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
             },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
```

"smithy.api#required": {}
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits": {
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation":
" Home Region of the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",

"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. "
}
},

```
    "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>New version of the license.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CreateToken": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateTokenResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },

  {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
```

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a long-lived token.</p>\n        <p>A refresh token is a JWT
 token used to get an access token. With an access token,\n          you can call AssumeRoleWithWebIdentity to get
role credentials that you can use to \n          call License Manager to manage the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateTokenRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The ARN is
mapped to the aud claim of the\n          JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "RoleArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the IAM roles to embed
 in the token. \n        License Manager does not check whether the roles are in use.</p>"
                }
            },
            "ExpirationInDays": {
                "target": "com.amazonaws.licensemanager#Integer",
                "traits": {
                    "smithy.api#documentation": "<p>Token expiration, in days, counted from token creation. The
default is 365 days.</p>"
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Data specified by the caller to be included in the JWT token. The
data is mapped\n          to the amr claim of the JWT token.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation":
 "<p>Idempotency token, valid for 10 minutes.</p>",
                    "smithy.api#required": {}
                }
            }
        }
```

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    },
    "com.amazonaws.licensemanager#CreateTokenResponse": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
            "TokenType": {
                "target": "com.amazonaws.licensemanager#TokenType",
                "traits": {
                    "smithy.api#documentation": "<p>Token type.</p>"
                }
            },
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token,
encoded as a JWT token.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#DateTime": {
        "type": "timestamp"
    },
    "com.amazonaws.licensemanager#DatetimeRange": {
        "type": "structure",
        "members": {
            "Begin": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Start of the time range.</p>",
                    "smithy.api#required": {}
                }
            },
            "End": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>End of the time range.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC
```

format. "
        }
    },
    "com.amazonaws.licensemanager#DeleteGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

        },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": " Deletes the specified grant. "
        }
    },
    "com.amazonaws.licensemanager#DeleteGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
                    "smithy.api#required": {}
                }

```
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {

        "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#DeleteGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation":
"<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#DeleteLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
```

```
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Deletes the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license configuration.</p> \n        <p>You cannot
delete a license configuration
 that is in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

        "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified report generator.</p>\n        <p>This action
deletes the report generator, which stops it from generating future reports.\n        The action cannot be reversed. It
has no effect on the previous reports from this generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to be
deleted.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },

  "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#DeleteLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
```

"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#DeleteLicenseResponse":
{
"type": "structure",
"members": {
"Status": {
"target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"DeletionDate": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date when the license is deleted. "
}
}
}
},
"com.amazonaws.licensemanager#DeleteToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteTokenResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
        }

    },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#DigitalSignatureMethod": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "JWT_PS384",
                    "name": "JWT_PS384"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#Entitlement": {
```

"type": "structure",

"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement resource. Use only if the unit is None. "
}
},
"MaxCount": {
"target": "com.amazonaws.licensemanager#Long",
"traits": {
"smithy.api#documentation": " Maximum entitlement count. Use if the unit is not None. "
}
},
"Overage": {
"target": "com.amazonaws.licensemanager#BoxBoolean",

"traits": {
"smithy.api#documentation": " Indicates whether overages are allowed. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementUnit",
"traits": {
"smithy.api#documentation": " Entitlement unit. ",
"smithy.api#required": {}
}
},
"AllowCheckIn": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether check-ins are allowed. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a resource entitled for use with a license. "
}
},
"com.amazonaws.licensemanager#EntitlementData": {

"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data value. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {
"smithy.api#documentation": " Entitlement data unit. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Data associated
with an entitlement resource. "
}
},
"com.amazonaws.licensemanager#EntitlementDataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#EntitlementData"
}
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "Count",
"name": "COUNT"
},
{
"value": "None",
"name": "NONE"
},
{
"value": "Seconds",

"name": "SECONDS"
},
{
"value": "Microseconds",
"name": "MICROSECONDS"
},
{

"value": "Milliseconds",
"name": "MILLISECONDS"
},
{
"value": "Bytes",
"name": "BYTES"
},
{
"value": "Kilobytes",
"name": "KILOBYTES"
},
{
"value": "Megabytes",
"name": "MEGABYTES"
},
{
"value": "Gigabytes",
"name": "GIGABYTES"
},
{
"value": "Terabytes",
"name": "TERABYTES"
},
{
"value": "Bits",
"name": "BITS"
},
{
"value": "Kilobits",
"name": "KILOBITS"
},
{
"value": "Megabits",
"name": "MEGABITS"
},
{
"value": "Gigabits",
"name": "GIGABITS"
},
{

"value": "Terabits",
"name": "TERABITS"
},
{
"value": "Percent",
"name": "PERCENT"
},
{
"value": "Bytes/Second",
"name": "BYTES_PER_SECOND"
},
{
"value": "Kilobytes/Second",
"name": "KILOBYTES_PER_SECOND"
},
{
"value": "Megabytes/Second",
"name": "MEGABYTES_PER_SECOND"

},
{
"value": "Gigabytes/Second",
"name": "GIGABYTES_PER_SECOND"
},
{
"value": "Terabytes/Second",
"name": "TERABYTES_PER_SECOND"
},
{
"value": "Bits/Second",
"name": "BITS_PER_SECOND"
},
{
"value": "Kilobits/Second",
"name": "KILOBITS_PER_SECOND"
},
{
"value": "Megabits/Second",
"name": "MEGABITS_PER_SECOND"
},
{
"value": "Gigabits/Second",
"name": "GIGABITS_PER_SECOND"
},
{
"value": "Terabits/Second",

"name": "TERABITS_PER_SECOND"
},
{
"value": "Count/Second",
"name": "COUNT_PER_SECOND"
}
]
}
},
"com.amazonaws.licensemanager#EntitlementList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Entitlement"
}
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The entitlement is not allowed. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#EntitlementUnit": {

"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "Count",
"name": "COUNT"
},
{
"value": "None",
"name": "NONE"
},
{
"value": "Seconds",
"name": "SECONDS"
},
{
"value": "Microseconds",
"name": "MICROSECONDS"

```
        },
        {
          "value": "Milliseconds",
          "name": "MILLISECONDS"
        },
        {
          "value": "Bytes",
          "name": "BYTES"
        },
        {
          "value": "Kilobytes",
          "name": "KILOBYTES"

    },
        {
          "value": "Megabytes",
          "name": "MEGABYTES"
        },
        {
          "value": "Gigabytes",
          "name": "GIGABYTES"
        },
        {
          "value": "Terabytes",
          "name": "TERABYTES"
        },
        {
          "value": "Bits",
          "name": "BITS"
        },
        {
          "value": "Kilobits",
          "name": "KILOBITS"
        },
        {
          "value": "Megabits",
          "name": "MEGABITS"
        },
        {
          "value": "Gigabits",
          "name": "GIGABITS"
        },
        {
          "value": "Terabits",
           "name": "TERABITS"
        },
        {
          "value": "Percent",
```

"name": "PERCENT"
},
{
"value": "Bytes/Second",
"name": "BYTES_PER_SECOND"
},
{
"value": "Kilobytes/Second",
"name": "KILOBYTES_PER_SECOND"
},
{
"value": "Megabytes/Second",
"name": "MEGABYTES_PER_SECOND"
},
{
"value": "Gigabytes/Second",
"name": "GIGABYTES_PER_SECOND"
},
{
"value": "Terabytes/Second",
"name": "TERABYTES_PER_SECOND"
},
{

"value": "Bits/Second",
"name": "BITS_PER_SECOND"
},
{
"value": "Kilobits/Second",
"name": "KILOBITS_PER_SECOND"
},
{
"value": "Megabits/Second",
"name": "MEGABITS_PER_SECOND"
},
{
"value": "Gigabits/Second",
"name": "GIGABITS_PER_SECOND"
},
{
"value": "Terabits/Second",
"name": "TERABITS_PER_SECOND"
},
{
"value": "Count/Second",
"name": "COUNT_PER_SECOND"
}
]

```
        }
    },
    "com.amazonaws.licensemanager#EntitlementUsage": {
        "type": "structure",

"members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ConsumedValue": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxCount": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
                }
            },
            "Unit": {
                "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
                 "traits": {
                    "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementUsageList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
```

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
        },
        "errors": [
            {

        "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}
                }
            },
            "DryRun": {
                "target": "com.amazonaws.licensemanager#Boolean",
                "traits": {
                    "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>"
                }
```

```
        }
    }
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
    "type": "structure",

  "members": {
        "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
            }
        },
        "Expiration": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#FailedDependencyException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        },
        "ErrorCode": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },

 "traits": {
        "aws.protocols#awsQueryError": {
            "code": "FailedDependency",
            "httpResponseCode": 424
        },
        "smithy.api#documentation": "<p>A dependency required to run the API is missing.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 424
    }
},
"com.amazonaws.licensemanager#Filter": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#FilterName",
            "traits": {
```

"smithy.api#documentation": " Name of the filter. Filter names are case-sensitive. "
}
},
"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " Filter values. Filter values are case-sensitive. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter name and value pair that is used to return more specific results from a\n describe operation. Filters can be used to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FilterLimitExceeded",
"httpResponseCode": 400
},
"smithy.api#documentation": " The request uses too many filters or too many filter values. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter"
}
},
"com.amazonaws.licensemanager#FilterName": {
"type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
"type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {

"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#FilterValue",
"traits": {
"smithy.api#xmlName": "item"
}
}
},
"com.amazonaws.licensemanager#Filters": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter",
"traits": {
"smithy.api#xmlName":
"item"
}
}
},
"com.amazonaws.licensemanager#GetAccessToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"

}
],
"traits": {
"smithy.api#documentation": " Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access tokens\n are valid for one hour. "
}

```
    },
    "com.amazonaws.licensemanager#GetAccessTokenRequest": {
        "type": "structure",
        "members": {
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT
token.</p>"
                }

            }
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenResponse": {
        "type": "structure",
        "members": {
            "AccessToken": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Temporary access token.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
```

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            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
                "smithy.api#documentation": "<p>Grant details.</p>"
            }
        }
    }
},
```

"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",

    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
     "traits": {
        "smithy.api#documentation": " Gets detailed information about the specified license. "
    }
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license
configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId":
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            },
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>"
```

```
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation":
"<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
                "smithy.api#documentation": "<p>Dimension for which the licenses are counted.</p>"
            }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules.</p>"
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of available licenses.</p>"
            }
        },
        "LicenseCountHardLimit": {

  "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Sets the number of available licenses as a hard limit.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses assigned to resources.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License configuration status.</p>"
            }
        },
        "OwnerAccountId": {
            "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " Account ID of the
owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList":
{
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is
uninstalled. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
"type":

"operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets
information about the specified license type conversion task. "
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information
on. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {

"smithy.api#documentation": " ID of the license
type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license
conversion task is associated with. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted to. "

}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " Status of the license type conversion task. "
}
},
"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was started . "
}
},
"LicenseConversionTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Amount of time to complete the license type conversion. "
}
},

"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was completed. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified report generator. "
}
},

"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"ReportGenerator": {
"target": "com.amazonaws.licensemanager#ReportGenerator",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic
reports about your license configurations. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseResponse": {
"type": "structure",
"members": {
"License": {
"target":

"com.amazonaws.licensemanager#License",
"traits": {
"smithy.api#documentation": " License details. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseUsage": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the usage of the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseUsageRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}

```
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageResponse":
{
        "type": "structure",
        "members": {
            "LicenseUsage": {
                "target": "com.amazonaws.licensemanager#LicenseUsage",
                "traits": {
                    "smithy.api#documentation": "<p>License usage details.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },

 {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
        "type": "structure",
```

"members": {
"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Regional S3 bucket path for storing reports, license trail event data, discovery data,\n and so on. "
}

},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " SNS topic configured to receive notifications from License Manager. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Indicates whether Organizations is integrated with License Manager for\n cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether cross-account discovery is enabled. "
}

},
"LicenseManagerResourceShareArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource share. The License Manager management account \n provides member accounts with access to this share. "
}
}
}
},
"com.amazonaws.licensemanager#Grant": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}

```
        },
        "GrantName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {

            "smithy.api#documentation": "<p>Grant name.</p>",
            "smithy.api#required": {}
          }
        },
        "ParentArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Parent ARN.</p>",
            "smithy.api#required": {}
          }
        },
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>License ARN.</p>",
            "smithy.api#required": {}
          }
        },
        "GranteePrincipalArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>The grantee principal ARN.</p>",

"smithy.api#required": {}
          }
        },
        "HomeRegion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Home Region of the grant.</p>",
            "smithy.api#required": {}
          }
        },
        "GrantStatus": {
          "target": "com.amazonaws.licensemanager#GrantStatus",
          "traits": {
            "smithy.api#documentation": "<p>Grant status.</p>",
            "smithy.api#required": {}
          }
        },
        "StatusReason": {
          "target": "com.amazonaws.licensemanager#StatusReasonMessage",
          "traits": {
```

"smithy.api#documentation": " Grant status reason. "
}
},
"Version": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. ",
"smithy.api#required": {}
}
},
"GrantedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Granted operations. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes a grant. "
}
},
"com.amazonaws.licensemanager#GrantList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Grant"
}
},
"com.amazonaws.licensemanager#GrantStatus": {
"type": "string",

"traits": {
"smithy.api#enum": [
{
"value": "PENDING_WORKFLOW",
"name": "PENDING_WORKFLOW"
},
{
"value": "PENDING_ACCEPT",
"name": "PENDING_ACCEPT"
},
{
"value": "REJECTED",
"name": "REJECTED"
},
{
"value": "ACTIVE",

```
                "name": "ACTIVE"
            },
            {
                "value": "FAILED_WORKFLOW",
                "name": "FAILED_WORKFLOW"
            },
            {
                "value": "DELETED",
                "name": "DELETED"
            },
            {
                "value": "PENDING_DELETE",
                "name": "PENDING_DELETE"
            },
            {
                "value": "DISABLED",
                "name": "DISABLED"
            },
            {
                "value": "WORKFLOW_COMPLETED",
                "name": "WORKFLOW_COMPLETED"
            }
        ]
    }
},
"com.amazonaws.licensemanager#GrantedLicense": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License name.</p>"
            }

},
        "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product name.</p>"
            }
        },
        "ProductSKU": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " Granted license issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the granted license. "

}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " Granted license status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the granted license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Granted license beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}

```
            },
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Granted license metadata.</p>"
                }
            },
            "CreateTime": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Creation time of the granted license.</p>"

  }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Version of the granted license.</p>"
                }
            },
            "ReceivedMetadata": {
                "target": "com.amazonaws.licensemanager#ReceivedMetadata",
                "traits": {
                    "smithy.api#documentation": "<p>Granted license received metadata.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes a license that is granted to a grantee.</p>"
        }
    },
    "com.amazonaws.licensemanager#GrantedLicenseList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#GrantedLicense"
        }
    },
    "com.amazonaws.licensemanager#ISO8601DateTime":
{
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            },
            "smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-
1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[ 0-3]|[0-1][0-9]):[0-5][0-9])+$"
        }
```

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    },
    "com.amazonaws.licensemanager#Integer": {
        "type": "integer",
        "traits": {
            "smithy.api#box": {}
        }
    },
    "com.amazonaws.licensemanager#InvalidParameterValueException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidParameterValueProvided",

 "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>One or more parameter values are not valid.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InvalidResourceStateException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidResourceState",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n        <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
            "smithy.api#error": "client",
             "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InventoryFilter": {
        "type": "structure",
        "members": {
            "Name": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the filter. ",
"smithy.api#required": {}
}
},
"Condition": {
"target": "com.amazonaws.licensemanager#InventoryFilterCondition",
"traits": {
"smithy.api#documentation": " Condition of the filter. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Value
of the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " An inventory filter. "
}
},
"com.amazonaws.licensemanager#InventoryFilterCondition": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "EQUALS",
"name": "EQUALS"
},
{
"value": "NOT_EQUALS",
"name": "NOT_EQUALS"
},
{
"value": "BEGINS_WITH",
"name": "BEGINS_WITH"
},
{
"value": "CONTAINS",
"name": "CONTAINS"
}
]
}
},

"com.amazonaws.licensemanager#InventoryFilterList":
{
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#InventoryFilter"
}
},
"com.amazonaws.licensemanager#Issuer": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. ",
"smithy.api#required": {}
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
}
},
"traits": {

"smithy.api#documentation": " Details about the issuer of a license. "
}
},
"com.amazonaws.licensemanager#IssuerDetails": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. "
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
},

```
        "KeyFingerprint": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
    }
},
"com.amazonaws.licensemanager#License": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License name.</p>"
            }
        },
        "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product name.</p>"
            }
        },
        "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product SKU.</p>"
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>License issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the license.</p>"
```

```
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
             "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        },
        "Validity": {
            "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {
                "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>"
            }
        },
        "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License beneficiary.</p>"
            }
        },
        "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
            "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>"

         }
        },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
            }
        },
        "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
                "smithy.api#documentation": "<p>License metadata.</p>"
            }
        },
        "CreateTime": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>License creation time.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
```

"traits":
{
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#documentation": " Software license that is managed in License Manager. "
}
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
"type": "structure",
"members": {
"LicenseConfigurationId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Unique ID of the license configuration. "
}
},
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}

},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension to use to track the license inventory. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Number of available licenses as a hard limit. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "

}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the license configuration. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the license configuration's owner. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",

"traits": {
"smithy.api#documentation": " Summaries for licenses consumed by various resources. "
}
},

"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource

consuming licenses. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was associated with the resource. "
}
},
"AmiAssociationScope":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an association with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
}
},
"com.amazonaws.licensemanager#LicenseConfigurationStatus": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "AVAILABLE",
"name": "AVAILABLE"
},
{
"value": "DISABLED",
"name": "DISABLED"
}
]
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsage": {
"type": "structure",
"members": {
"ResourceArn": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of resource. "
}
},
"ResourceStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Status of the resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was initially associated with the resource. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}

},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"

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        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurations": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfiguration"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionContext": {
        "type": "structure",
        "members": {
            "UsageOperation": {
                "target": "com.amazonaws.licensemanager#UsageOperation",
                "traits": {
                    "smithy.api#documentation": "<p>The Usage operation value that corresponds
 to the license type you are converting your resource from.  For more information about which platforms correspond
to which usage operation values see <a href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-
info-fields.html#billing-info\">Sample data: usage operation by platform\n      </a>\n         </p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTask": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the license type conversion task.</p>"
                }
            },
            "ResourceArn":
 {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource associated
with the license type\n         conversion task.</p>"
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license type this conversion task converted
from.</p>"
                }
```

```
            },
            "DestinationLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license type this conversion task converted
to.</p>"
                }
            },

  "Status": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
                "traits": {
                    "smithy.api#documentation": "<p>The status of the conversion task.</p>"
                }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
                }
            },
            "StartTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>The time the conversion task was started at.</p>"
                }
            },
            "LicenseConversionTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {

        "smithy.api#documentation": "<p>The time the usage operation value of the resource was changed.</p>"
                }
            },
            "EndTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTaskId": {
        "type": "string",
        "traits": {
```

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            "smithy.api#length": {
                "min": 0,
                "max": 50
            },
            "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
        "type":
"string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "IN_PROGRESS",
                    "name": "IN_PROGRESS"
                },
                {
                    "value": "SUCCEEDED",
                    "name": "SUCCEEDED"
                },
                {
                    "value": "FAILED",
                    "name": "FAILED"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTasks": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTask"
        }
    },
    "com.amazonaws.licensemanager#LicenseCountingType": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "vCPU",
                    "name": "VCPU"

                },
                {
                    "value": "Instance",
                    "name": "INSTANCE"
                },
                {
                    "value": "Core",
```

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            "name": "CORE"
          },
          {
            "value": "Socket",
            "name": "SOCKET"
          }
        ]
      }
    },
    "com.amazonaws.licensemanager#LicenseDeletionStatus": {
      "type": "string",
      "traits": {
        "smithy.api#enum": [
          {
            "value": "PENDING_DELETE",
            "name": "PENDING_DELETE"
          },
          {
            "value": "DELETED",
            "name": "DELETED"
          }
        ]
      }
    },
    "com.amazonaws.licensemanager#LicenseList": {
      "type": "list",
       "member": {
        "target": "com.amazonaws.licensemanager#License"
      }
    },
    "com.amazonaws.licensemanager#LicenseOperationFailure": {
      "type": "structure",
      "members": {
        "ResourceArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
          }
        },
        "ResourceType": {
          "target": "com.amazonaws.licensemanager#ResourceType",
          "traits": {
            "smithy.api#documentation": "<p>Resource type.</p>"
          }
        },
        "ErrorMessage": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
```

"smithy.api#documentation": " Error message. "

}
},
"FailureTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Failure time. "
}
},
"OperationName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the operation. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource. "
}
},
"OperationRequestedBy": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " The requester is \"License Manager Automated Discovery\". "
}
},
"MetadataList": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Reserved. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the failure of a license operation. "
}
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailure"
}
},
"com.amazonaws.licensemanager#LicenseSpecification": {

"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseSpecification"
}
},
"com.amazonaws.licensemanager#LicenseStatus":
{
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "AVAILABLE",
"name": "AVAILABLE"
},
{
"value": "PENDING_AVAILABLE",
"name": "PENDING_AVAILABLE"
},
{
"value": "DEACTIVATED",
"name": "DEACTIVATED"
},
{
"value": "SUSPENDED",
"name": "SUSPENDED"

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                },
                {
                    "value": "EXPIRED",
                    "name": "EXPIRED"
                },
                {
                    "value": "PENDING_DELETE",
                    "name": "PENDING_DELETE"
                },
                {

                 "value": "DELETED",
                    "name": "DELETED"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#LicenseUsage": {
        "type": "structure",
        "members": {
            "EntitlementUsages": {
                "target": "com.amazonaws.licensemanager#EntitlementUsageList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlement usages.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes the entitlement usage associated with a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseUsageException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {

         "aws.protocols#awsQueryError": {
                "code": "LicenseUsageFailure",
                "httpResponseCode": 412
            },
            "smithy.api#documentation": "<p>You do not have enough licenses available to support a new resource
launch.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 412
```

```
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the resource associations for the specified license
configuration.</p> \n        <p>Resource associations need not consume licenses from a license configuration. \n
For example, an AMI or a stopped instance might not consume a license (depending on \n        the license
rules).</p>"
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest":
 {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
```

```
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationAssociations": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the associations for the license
configuration.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListDistributedGrants": {
        "type": "operation",
        "input": {
            "target":
 "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
```

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            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

             "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants distributed for the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
        "type": "structure",
        "members": {
            "GrantArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n
        <code>LicenseArn</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>GrantStatus</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>GranteePrincipalARN</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>ProductSKU</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>LicenseIssuerName</code>\n                </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
```

"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{

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            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the license configuration operations that failed.</p>"
    }
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
    "type": "structure",
    "members": {
        "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse": {
    "type": "structure",
    "members": {
        "LicenseOperationFailureList": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
            "traits": {
                "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
```

"com.amazonaws.licensemanager#ListLicenseConfigurations":
{
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},

{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configurations for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the license configurations. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "

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            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "Filters": {
            "target": "com.amazonaws.licensemanager#Filters",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n  are supported:</p>\n  <ul>\n  <li>\n  <p>\n  <code>licenseCountingType</code> - The dimension for which licenses are counted.\n  Possible values are <code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n  Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n  </li>\n  <li>\n  <p>\n
                <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement is used. \n  Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n  </li>\n  <li>\n  <p>\n  <code>usagelimitExceeded</code> - A Boolean value that indicates whether the available licenses have been exceeded. \n  Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n  </li>\n  </ul>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
        "type": "structure",
        "members": {
          "LicenseConfigurations": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurations",
            "traits": {
              "smithy.api#documentation": "<p>Information about the license configurations.</p>"

            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListLicenseConversionTasks": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
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```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
        "type": "structure",
        "members": {
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                 "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>\n        Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n      </p>"
                }
            }
```

```
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTasks": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configuration tasks for your
account.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },

    {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
```

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            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the report generators for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest": {
        "type":
 "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:
</p>\n        <ul>\n            <li>\n                <p>\n                <code>LicenseConfigurationArn</code>\n
</p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to
 return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
            "ReportGenerators": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorList",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            },
```

"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
"type": "operation",
"input":
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Describes the
license configurations for the specified resource. "
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a resource that has an
associated license configuration. ",
"smithy.api#required": {}

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            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",

         "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {
        "LicenseSpecifications": {
            "target": "com.amazonaws.licensemanager#LicenseSpecifications",
            "traits": {
                "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
     "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation":
"<p>Lists all versions of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum
number of results to return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
        "type": "structure",
        "members": {
            "Licenses": {
                "target": "com.amazonaws.licensemanager#LicenseList",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
```

```
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the licenses for your account.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicensesRequest": {
    "type": "structure",
    "members": {
        "LicenseArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
```

"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>Status</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {

"target": "com.amazonaws.licensemanager#LicenseList",
"traits": {
"smithy.api#documentation": " License details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListReceivedGrants": {
"type": "operation",

"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists grants that are received but not accepted. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
"type": "structure",

"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are

supported: \n \n \n \n <code>ProductSKU</code>\n \n
\n \n \n <code>LicenseIssuerName</code>\n \n
\n \n \n <code>LicenseArn</code>\n \n \n
\n \n
<code>GrantStatus</code>\n \n \n \n \n
<code>GranterAccountId</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {

"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Received grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"

},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists received licenses. "
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
"type": "structure",

"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>IssuerName</code>\n
\n \n \n \n <code>Beneficiary</code>\n \n \n "

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            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
        "type": "structure",
        "members": {
          "Licenses": {

"target": "com.amazonaws.licensemanager#GrantedLicenseList",
            "traits": {
              "smithy.api#documentation": "<p>Received license details.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListResourceInventory": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"

    },
          {
```

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FailedDependencyException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists resources managed using Systems Manager inventory. "
}
},
"com.amazonaws.licensemanager#ListResourceInventoryRequest": {

"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#InventoryFilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>application_name</code> - The name of the application. \n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n \n \n \n <code>license_included</code> - The type of license included. \n Logical operators are

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<code>EQUALS</code> | <code>NOT_EQUALS</code>.\n            Possible values are <code>sql-server-enterprise</code> | \n            <code>sql-server-standard</code> | \n            <code>sql-server-web</code> |  \n            <code>windows-server-datacenter</code>.</p>\n            </li>\n            <li>\n            <p>\n            <code>platform</code> - The platform of the resource.\n            Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n            </li>\n            <li>\n            <p>\n            <code>resource_id</code> - The ID of the resource. \n            Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n            <p>\n            <code>tag:<key></code> - The key/value combination of a tag assigned \n            to the resource. Logical operators are <code>EQUALS</code> (single account) or\n            <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account).</p>\n            </li>\n        </ul>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryResponse": {
        "type": "structure",
        "members": {
            "ResourceInventoryList": {
                "target": "com.amazonaws.licensemanager#ResourceInventoryList",
                "traits":
{
                    "smithy.api#documentation": "<p>Information about the resources.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
```

"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the tags for the specified license configuration. "
}
},
"com.amazonaws.licensemanager#ListTagsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required":
{}
}
}
}
},
"com.amazonaws.licensemanager#ListTagsForResourceResponse": {
"type": "structure",
"members": {
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Information about the tags. "
}
}
}
},
"com.amazonaws.licensemanager#ListTokens": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListTokensRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListTokensResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target":
"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists your tokens. "
}
},
"com.amazonaws.licensemanager#ListTokensRequest": {
"type": "structure",
"members": {
"TokenIds": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " Token IDs. "
}
},
"Filters": {
"target":
"com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filter is supported: \n
\n \n \n <code>LicenseArns</code>\n \n \n
"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "

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                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListTokensResponse":
{
        "type": "structure",
        "members": {
            "Tokens": {
                "target": "com.amazonaws.licensemanager#TokenList",
                "traits": {
                    "smithy.api#documentation": "<p>Received token details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
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            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying license\n        consumption details by resource
 at a selected point in time. Use this action to audit the\n        current license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {

                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>resourceArn</code> - The ARN of the license configuration resource.\n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>).
 \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>resourceAccount</code> - The ID of the account that owns the resource. \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
                }
```

```
        }
    }
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
    "type": "structure",
    "members": {
        "LicenseConfigurationUsageList": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license configurations.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#Location": {
    "type": "string"
},
"com.amazonaws.licensemanager#Long": {
    "type": "long",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummary": {
    "type": "structure",
    "members": {
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
            }
        },
        "AssociationCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                 "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
```

```
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {
    "type": "integer",
    "traits": {
        "smithy.api#box": {},
        "smithy.api#range": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
     },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The key name.</p>"
            }
        },
        "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The value.</p>"
            }
        }
    },
```

"traits": {
"smithy.api#documentation": " Describes key/value pairs. "
}

},
"com.amazonaws.licensemanager#MetadataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Metadata"
}
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#OrganizationConfiguration": {
"type": "structure",
"members": {
"EnableIntegration": {
"target": "com.amazonaws.licensemanager#Boolean",

"traits": {
"smithy.api#documentation": " Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {

"min": 1,
"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n
Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n
Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n

is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n
<code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n \n ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information for a license configuration. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
"type": "structure",
"members": {
"ProductInformationFilterName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Filter name. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterValue": {
"target":
"com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " Filter value. "
}
},
"ProductInformationFilterComparator": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Logical operator. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information filters. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
"type": "list",
"member": {

"target": "com.amazonaws.licensemanager#ProductInformationFilter"
}
},
"com.amazonaws.licensemanager#ProductInformationList": {
"type": "list",

"member": {
"target": "com.amazonaws.licensemanager#ProductInformation"
}
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
"type": "structure",
"members": {
"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the provisional configuration, in minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"com.amazonaws.licensemanager#RateLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"

}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "RateLimitExceeded",
"httpResponseCode": 429
},
"smithy.api#documentation": " Too many requests have been submitted. Try again after a brief wait. ",
"smithy.api#error": "client",
"smithy.api#httpError": 429
}
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
"type": "structure",
"members": {
"ReceivedStatus": {

"target": "com.amazonaws.licensemanager#ReceivedStatus",
"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {

"smithy.api#documentation": " Received status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations. "
}
}
},
"traits": {
"smithy.api#documentation": " Metadata associated with received licenses and grants. "
}
},
"com.amazonaws.licensemanager#ReceivedStatus": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "PENDING_WORKFLOW",
"name": "PENDING_WORKFLOW"
},
{
"value": "PENDING_ACCEPT",
"name": "PENDING_ACCEPT"
},
{
"value": "REJECTED",
"name": "REJECTED"
},
{
"value": "ACTIVE",
"name": "ACTIVE"
},
{
"value": "FAILED_WORKFLOW",
"name": "FAILED_WORKFLOW"
},
{

"value": "DELETED",
"name": "DELETED"
},
{
"value": "DISABLED",
"name": "DISABLED"
},
{
"value": "WORKFLOW_COMPLETED",
"name": "WORKFLOW_COMPLETED"
}
]
}
},
"com.amazonaws.licensemanager#RedirectException": {
"type": "structure",
"members": {

"Location": {
"target": "com.amazonaws.licensemanager#Location",
"traits": {
"smithy.api#httpHeader": "Location"
}
},
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " This is not the correct Region for the resource. Try again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 308
}
},
"com.amazonaws.licensemanager#RejectGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#RejectGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#RejectGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"

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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest":
{
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
```

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            }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#RenewType": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "None",
                    "name": "NONE"
                },
                {
                    "value": "Weekly",
                    "name": "WEEKLY"
                },
                {
                    "value": "Monthly",
                    "name": "MONTHLY"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#ReportContext": {
        "type": "structure",
        "members": {

  "licenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration that
this generator reports on.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details of the license configuration that this generator reports on.</p>"
        }
    },
    "com.amazonaws.licensemanager#ReportFrequency": {
        "type": "structure",
```

"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "

}
},
"period": {
"target": "com.amazonaws.licensemanager#ReportFrequencyType",
"traits": {
"smithy.api#documentation": " Time period between each report. The period can be daily, weekly, or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"com.amazonaws.licensemanager#ReportFrequencyType": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "DAY",
"name": "DAY"
},
{
"value": "WEEK",
"name": "WEEK"
},
{
"value": "MONTH",

"name": "MONTH"
}
]
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the report generator. "

```
        }
    },
    "ReportType": {
        "target": "com.amazonaws.licensemanager#ReportTypeList",
        "traits": {
            "smithy.api#documentation": "<p>Type of reports that are generated.</p>"
        }
    },
    "ReportContext": {
        "target": "com.amazonaws.licensemanager#ReportContext",
        "traits": {
            "smithy.api#documentation": "<p>License configuration type for this generator.</p>"
         }
    },
    "ReportFrequency": {
        "target": "com.amazonaws.licensemanager#ReportFrequency",
        "traits": {
            "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
        }
    },
    "LicenseManagerReportGeneratorArn": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>"
        }
    },
    "LastRunStatus": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Status of the last report generation attempt.</p>"
        }
    },
    "LastRunFailureReason": {

  "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Failure message for the last report generation attempt.</p>"
        }
    },
    "LastReportGenerationTime": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Time the last report was generated at.</p>"
        }
    },
    "ReportCreatorAccount": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
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"smithy.api#documentation": " The Amazon Web Services account ID used to create the report generator. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the report was created. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags associated with the report generator. "
}
}
},

"traits": {
"smithy.api#documentation": " Describe the details of a report generator. "
}
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportGenerator"
}
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100

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        }
    }
},
"com.amazonaws.licensemanager#ReportType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "LicenseConfigurationSummaryReport",
                "name": "LICENSE_CONFIGURATION_SUMMARY_REPORT"
            },
            {
                "value": "LicenseConfigurationUsageReport",
                 "name": "LICENSE_CONFIGURATION_USAGE_REPORT"
            }
        ]
    }
},
"com.amazonaws.licensemanager#ReportTypeList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportType"
    }
},
"com.amazonaws.licensemanager#ResourceInventory": {
    "type": "structure",
    "members": {
        "ResourceId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>ID of the resource.</p>"
            }
        },
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Type of resource.</p>"
            }
        },
         "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
        },
        "Platform": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
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"smithy.api#documentation": " Platform of the resource. "
}
},
"PlatformVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Platform version of the resource in the inventory. "
}
},
"ResourceOwningAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation":
" ID of the account that owns the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a resource. "
}
},
"com.amazonaws.licensemanager#ResourceInventoryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ResourceInventory"
}
},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ResourceLimitExceeded",
"httpResponseCode": 400
},
"smithy.api#documentation": " Your resource limits have
been exceeded. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
"type": "structure",
"members": {

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        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "InvalidResource.NotFound",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The resource cannot be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "EC2_INSTANCE",
                 "name": "EC2_INSTANCE"
            },
            {
                "value": "EC2_HOST",
                "name": "EC2_HOST"
            },
            {
                "value": "EC2_AMI",
                "name": "EC2_AMI"
            },
            {
                "value": "RDS",
                "name": "RDS"
            },
            {
                "value": "SYSTEMS_MANAGER_MANAGED_INSTANCE",
                "name": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
            }
        ]
    }
},
"com.amazonaws.licensemanager#S3Location": {
    "type": "structure",
    "members": {
        "bucket": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the S3 bucket
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reports are published to. "
}
},
"keyPrefix": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Prefix of the S3 bucket reports are published to. "
}
}
},
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InternalError",
"httpResponseCode": 500
},
"smithy.api#documentation": " The server experienced an internal error. Try again. ",
"smithy.api#error": "server",
"smithy.api#httpError": 500
}
},
"com.amazonaws.licensemanager#SignedToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 4096
}
}
},
"com.amazonaws.licensemanager#StatusReasonMessage": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 400
},

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            "smithy.api#pattern": "^[\\s\\S]+$"
        }
    },
    "com.amazonaws.licensemanager#String": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"

      }
    },
    "com.amazonaws.licensemanager#Tag": {
        "type": "structure",
        "members": {
            "Key": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag key.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#TagList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Tag"
        }
    },
    "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
```

"input": {
"target": "com.amazonaws.licensemanager#TagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#TagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},

{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Adds the specified tags to the specified license configuration. "
}
},
"com.amazonaws.licensemanager#TagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license
configuration. ",
"smithy.api#required": {}
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " One or more tags. ",
"smithy.api#required":
{}
}
}
}

```
    },
    "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
            "TokenType": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>"
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "ExpirationTime": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Token expiration time, in ISO8601-UTC format.</p>"
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Data specified by the caller.</p>"
                }
            },
            "RoleArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the roles included in the
token.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a token. "
}
},
"com.amazonaws.licensemanager#TokenList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#TokenData"
}
},
"com.amazonaws.licensemanager#TokenString": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 4096
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#TokenType": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "REFRESH_TOKEN",
"name": "REFRESH_TOKEN"
}
]
}
},
"com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The digital signature method is unsupported. Try your request again. ",

"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#UntagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UntagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Removes the specified tags from the specified license configuration. "
}
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",

```
            "traits": {
                "smithy.api#documentation": "<p>Keys identifying the tags to remove.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
    "type": "structure",
    "members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {

    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
    }
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
    "type": "structure",
    "members": {
        "LicenseConfigurationArn": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"LicenseConfigurationStatus": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
"traits": {
"smithy.api#documentation": " New status of the license configuration. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " New license rule. The only rule that you can add after you create a license\n configuration is licenseAffinityToHost. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " New number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}

},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",

"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},

{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates a report generator. \n After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated. "

}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to update. ",
"smithy.api#required": {}
}
},
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types are supported: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " The report context. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",

"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#InvalidResourceStateException"

```
        },
            {
                "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p> \n        <p>You can update the license specifications of AMIs, instances, and
hosts.\n        You cannot update the license specifications for launch templates and CloudFormation templates, \n
  as they send license configurations to the operation that creates the resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
        "type": "structure",
         "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "AddLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
                }
            },
            "RemoveLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to remove.</p>"
                }
            }
         }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#UpdateServiceSettings": {
```

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Updates License Manager settings for the current Region. "
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
"type": "structure",
"members": {
"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon S3 bucket where the License Manager information is stored. "
}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {

"smithy.api#documentation": " Enables integration with Organizations for cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Activates cross-account discovery. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UsageOperation": {
"type":
"string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
}
}
},
"com.amazonaws.licensemanager#ValidationException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The provided input is not valid. Try your request again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
}
}
}

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string
```

```
 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 //
 Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
```

```
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err
!= nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
```

```
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return
 nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
```

```
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
```

```
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
 err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
```

```
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

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package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if
 err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
```

```
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}
```

1.4095 openstorage 1.0.0

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1.4096 go-iptables 0.7.0

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1.4098 google-cloud-go-storage 1.36.0

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package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
```

```
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
```

```
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  SetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000
 * time.Millisecond),
  },
 }
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
```

```
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
```

```
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
```

```
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
```

```
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{"x-goog-api-client", gax.XGoogHeader(kv...)}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns
 nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
```

```
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

params := url.Values{}
if req != nil && req.RequestId != nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

hds = append(c.xGoogHeaders, hds...)
hds
= append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
```

```
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil
 {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx,
 hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
```

```
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for
 a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
```

```
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds
 = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return
```

```
 nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v",
 "project", url.QueryEscape(req.GetProject()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
```

```
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return
err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
```

```
req = proto.Clone(req).(*computepb.ListLicensesRequest)
unm
:= protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
 resp := &computepb.LicensesListResponse{}
 if pageToken != "" {
  req.PageToken = proto.String(pageToken)
 }
 if pageSize > math.MaxInt32 {
  req.MaxResults = proto.Uint32(math.MaxInt32)
 } else if pageSize != 0 {
  req.MaxResults = proto.Uint32(uint32(pageSize))
 }
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, "", err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.Filter != nil {
  params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
 }
 if req != nil && req.MaxResults != nil {
  params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
 }
 if req != nil && req.OrderBy != nil {
  params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req !=
nil && req.PageToken != nil {
  params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
```

```
  return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return
err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}
```

```
// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption)
 (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e
 := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
```

```
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx
 context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
```

```
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
// Copyright 2023 Google LLC
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```

```
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get              []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
 return &LicenseCodesCallOptions{
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
```

```
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 TestIamPermissions: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
}
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient
 interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient)
 Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
```

```
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode,
 error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions
}

// NewLicenseCodesRESTClient
```

```
 creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{"x-goog-api-client", gax.XGoogHeader(kv...)}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}
```

```
// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return a specified license code. License codes are
 mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for
use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm
 := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
```

```
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners
 who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
```

```
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()
```

```
 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
```

```
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_Insert()
{
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.InsertLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
}
op, err := c.Insert(ctx, req)
if err != nil {
 // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
 // TODO: Handle error.
}
}
```

```
func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
 }
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range
 values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
```

```
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown
 in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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```

```
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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
```

```
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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```
// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.31.0
//  protoc        v4.23.2
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
```

```
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
```

```
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
```

```
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //     tunedModels/{tuned_model}/permissions/{permission}
 //     corpora/{corpus}/permissions/{permission}
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
```

```
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
```

```
 if x != nil && x.Role
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
 0x0b, 0x67,
 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
 0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
 0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
```

```
 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
 0x64,
 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
 0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
```

```
 = []interface{}{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init()
 }
func file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v interface{}, i int)
interface{} {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []interface{}{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
```

```
 },
 GoTypes:          file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
 DependencyIndexes:
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
 EnumInfos:        file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
 MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
```

1.4099 swag 0.22.7

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1.4100 fake-gcs-server 1.7.0

1.4100.1 Available under license :

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1.4101 aws-sdk-go-v2-service-sts 1.16.1

1.4101.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
```

```
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
```

```
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
if err != nil {
 return
err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
```

```
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
```

```
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
```

```
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err
 = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
```

```
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string
```

```
 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack,
 options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
```

```
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil
 {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]
```

```
  steps:
    - name: Checkout target
      uses: actions/checkout@v2
      with:
        path: sdkbase
        ref: ${{ github.base_ref }}
    - name: Checkout this ref
      uses: actions/checkout@v2
      with:
        path: new-ref
        fetch-depth: 0
    - name: Get Diff
      run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
    - name: Get Target Files
      run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
       uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
```

```
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity *types.DatetimeRange

 //
 Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
```

```
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
```

```
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
```

```
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
```

```
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
 middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
```

```
 return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack,
 options); err != nil {
  return err
 }
```

```
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}
```

AWS SDK for Go

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```
{
   "smithy": "1.0",
   "metadata": {
      "suppressions": [
         {
            "id": "HttpMethodSemantics",
            "namespace": "*"
         },
         {
            "id": "HttpResponseCodeSemantics",
            "namespace": "*"
         },
         {
            "id": "PaginatedTrait",
            "namespace": "*"
         },
         {
            "id": "HttpHeaderTrait",
            "namespace": "*"
         },
         {
            "id": "HttpUriConflict",
            "namespace": "*"
         },
         {
            "id": "Service",
            "namespace": "*"
         }
      ]
   },
   "shapes": {
      "com.amazonaws.licensemanager#AWSLicenseManager": {
         "type": "service",
         "version": "2018-08-01",
```

"operations": [
{
"target": "com.amazonaws.licensemanager#AcceptGrant"
},

{
"target": "com.amazonaws.licensemanager#CheckInLicense"
},
{
"target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
},
{
"target": "com.amazonaws.licensemanager#CheckoutLicense"
},
{
"target": "com.amazonaws.licensemanager#CreateGrant"
},
{
"target": "com.amazonaws.licensemanager#CreateGrantVersion"
},
{
"target": "com.amazonaws.licensemanager#CreateLicense"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseVersion"
},
{
"target": "com.amazonaws.licensemanager#CreateToken"
},
{
"target": "com.amazonaws.licensemanager#DeleteGrant"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicense"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
},
{

"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#DeleteToken"
},
{
"target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

},
{
"target": "com.amazonaws.licensemanager#GetAccessToken"
},
{
"target": "com.amazonaws.licensemanager#GetGrant"
},
{
"target": "com.amazonaws.licensemanager#GetLicense"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseUsage"
},
{
"target": "com.amazonaws.licensemanager#GetServiceSettings"
},
{
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#ListDistributedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},

{
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
"target": "com.amazonaws.licensemanager#ListLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

"target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListResourceInventory"
},
{
"target": "com.amazonaws.licensemanager#ListTagsForResource"
},
{
"target": "com.amazonaws.licensemanager#ListTokens"
},
{
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#RejectGrant"
},
{
"target": "com.amazonaws.licensemanager#TagResource"
},
{
"target": "com.amazonaws.licensemanager#UntagResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"

```
            },
            {
                "target": "com.amazonaws.licensemanager#UpdateServiceSettings"
            }
        ],
        "traits": {
            "aws.api#service": {
                "sdkId": "License Manager",
                "arnNamespace": "license-manager",
                "cloudFormationName": "LicenseManager",
                "cloudTrailEventSource": "licensemanager.amazonaws.com",
                "endpointPrefix":
 "license-manager"
            },
            "aws.auth#sigv4": {
                "name": "license-manager"
            },
            "aws.protocols#awsJson1_1": {},
            "smithy.api#documentation": "<p>License Manager makes it easier to manage licenses from software
vendors across multiple \n        Amazon Web Services accounts and on-premises servers.</p>",
            "smithy.api#title": "AWS License Manager",
            "smithy.api#xmlNamespace": {
                "uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
            }
        }
    },
    "com.amazonaws.licensemanager#AcceptGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#AcceptGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
        },
        "errors": [
            {

           "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantRequest":
{
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant
status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
```

```
            }
        }
    },
    "com.amazonaws.licensemanager#AccessDeniedException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ServiceAccessDenied",
                "httpResponseCode": 401
            },
            "smithy.api#documentation": "<p>Access to resource denied.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 401
        }
    },
    "com.amazonaws.licensemanager#AllowedOperation":
{
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "CreateGrant",
                    "name": "CREATE_GRANT"
                },
                {
                    "value": "CheckoutLicense",
                    "name": "CHECKOUT_LICENSE"
                },
                {
                    "value": "CheckoutBorrowLicense",
                    "name": "CHECKOUT_BORROW_LICENSE"
                },
                {
                    "value": "CheckInLicense",
                    "name": "CHECK_IN_LICENSE"
                },
                {
                    "value": "ExtendConsumptionLicense",
                    "name": "EXTEND_CONSUMPTION_LICENSE"
                },
                {
                    "value": "ListPurchasedLicenses",
                    "name": "LIST_PURCHASED_LICENSES"
```

```
                },
                {
                    "value": "CreateToken",
                    "name": "CREATE_TOKEN"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#AllowedOperationList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#AllowedOperation"
        },
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max": 7
            }
        }
    },
    "com.amazonaws.licensemanager#Arn": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 2048
            },
            "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
        }
    },
    "com.amazonaws.licensemanager#ArnList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Arn"
        }
    },
    "com.amazonaws.licensemanager#AuthorizationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "AuthorizationFailure",
                "httpResponseCode": 403
```

```
            },
            "smithy.api#documentation": "<p>The Amazon Web Services user account does not have permission to
perform the action. Check the IAM\n        policy associated with this account.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 403
        }
    },
    "com.amazonaws.licensemanager#AutomatedDiscoveryInformation":
{
        "type": "structure",
        "members": {
            "LastRunTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes automated discovery.</p>"
        }
    },
    "com.amazonaws.licensemanager#Boolean": {
        "type": "boolean"
    },
    "com.amazonaws.licensemanager#BorrowConfiguration": {
        "type": "structure",
        "members": {
            "AllowEarlyCheckIn": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether early check-ins are allowed.</p>",
                     "smithy.api#required": {}
                }
            },
            "MaxTimeToLiveInMinutes": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#BoxBoolean": {
```

"type": "boolean",
"traits": {
"smithy.api#box": {}
}
},
"com.amazonaws.licensemanager#BoxInteger": {
"type": "integer",
"traits": {
"smithy.api#box": {}
}
},
"com.amazonaws.licensemanager#BoxLong": {

"type": "long",
"traits": {
"smithy.api#box": {}
}
},
"com.amazonaws.licensemanager#CheckInLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},

```
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",

        "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },

 {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                 "traits": {
                    "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
```

"smithy.api#required": {}
}
},
"DigitalSignatureMethod": {
"target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
"traits": {
"smithy.api#documentation": " Digital signature method. The possible value is JSON Web Signature (JWS) algorithm PS384.\n For more information, see RFC 7518 Digital Signature with RSASSA-PSS. ",
"smithy.api#required": {}
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",

"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " Allowed license entitlements. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"SignedToken": {

"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation":
" Information about constraints. "
}
}
}
},
"com.amazonaws.licensemanager#CheckoutLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
},

```
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {

 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutLicenseRequest": {
        "type": "structure",
        "members": {
            "ProductSKU":
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>",
```

"smithy.api#required": {}
}
},
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. ",
"smithy.api#required": {}
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Key fingerprint identifying the license. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Node ID. "
}
}
}
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {

```
        "type": "structure",
        "members": {
          "CheckoutType": {
            "target": "com.amazonaws.licensemanager#CheckoutType",
            "traits": {
              "smithy.api#documentation": "<p>Checkout type.</p>"
            }
          },
          "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License consumption token.</p>"
            }
          },
          "EntitlementsAllowed": {
            "target": "com.amazonaws.licensemanager#EntitlementDataList",
            "traits": {
              "smithy.api#documentation":
"<p>Allowed license entitlements.</p>"
            }
          },
          "SignedToken": {
            "target": "com.amazonaws.licensemanager#SignedToken",
            "traits": {
              "smithy.api#documentation": "<p>Signed token.</p>"
            }
          },
          "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Node ID.</p>"
            }
          },
          "IssuedAt": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
            }
          },
          "Expiration": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",

           "traits": {
              "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
            }
          },
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#String",
```

```
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CheckoutType": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "PROVISIONAL",
                    "name": "PROVISIONAL"
                },
                {
                    "value": "PERPETUAL",
                    "name": "PERPETUAL"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#ClientRequestToken":
{
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max": 36
            }
        }
    },
    "com.amazonaws.licensemanager#ClientToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 2048
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
    "com.amazonaws.licensemanager#ConflictException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
```

"traits": {
"aws.protocols#awsQueryError": {
"code": "ConflictException",
"httpResponseCode": 409
},
"smithy.api#documentation": " There
was a conflict processing the request. Try your request again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 409
}
},
"com.amazonaws.licensemanager#ConsumedLicenseSummary": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Resource type of the resource consuming a license. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about license consumption. "
}
},
"com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
}
},
"com.amazonaws.licensemanager#ConsumptionConfiguration": {
"type": "structure",
"members": {
"RenewType": {
"target": "com.amazonaws.licensemanager#RenewType",
"traits": {
"smithy.api#documentation": " Renewal frequency. "
}
},
"ProvisionalConfiguration": {
"target": "com.amazonaws.licensemanager#ProvisionalConfiguration",

"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"BorrowConfiguration": {

"target": "com.amazonaws.licensemanager#BorrowConfiguration",
"traits": {
"smithy.api#documentation": " Details about a borrow configuration. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a consumption configuration. "
}
},
"com.amazonaws.licensemanager#CreateGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],

"traits": {
"smithy.api#documentation": " Creates a grant for the specified license. A grant shares the use of license entitlements with specific Amazon Web Services accounts. "
}
},
"com.amazonaws.licensemanager#CreateGrantRequest": {
"type": "structure",
"members": {

"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},

"Principals": {
"target": "com.amazonaws.licensemanager#PrincipalArnList",
"traits": {
"smithy.api#documentation": " The grant principals. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",

"traits": {
"smithy.api#documentation": " Allowed operations for the grant. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CreateGrantResponse":
{
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
}
},
"com.amazonaws.licensemanager#CreateGrantVersion": {
"type": "operation",
"input": {

"target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{

"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a new version of the specified grant. "
}
},
"com.amazonaws.licensemanager#CreateGrantVersionRequest": {
"type": "structure",
"members": {
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. "

```
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "StatusReason": {
            "target": "com.amazonaws.licensemanager#StatusReasonMessage",

         "traits": {
              "smithy.api#documentation": "<p>Grant status reason.</p>"
            }
          },
          "SourceVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Current version of the grant.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#CreateGrantVersionResponse": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant
status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>New version of the grant.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#CreateLicense": {
```

```
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a license.</p>"
    }
},
"com.amazonaws.licensemanager#CreateLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license configuration.</p> \n        <p>A license configuration is an abstraction of a customer license
 agreement that can be\n        consumed and enforced by License Manager. Components include specifications for the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), license affinity  to host (how long a \n        license must be associated with a host), and the number of licenses purchased and used.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Description of the license configuration.</p>"
                }
            },
            "LicenseCountingType": {
                "target": "com.amazonaws.licensemanager#LicenseCountingType",
                "traits": {
                    "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
```

"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {

"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows. \n \n \n \n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n <code>licenseAffinityToHost</code> |\n <code>maximumCores</code> | <code>minimumCores</code>\n \n \n \n \n <code>Instances</code> dimension: <code>allowedTenancy</code> | \n <code>maximumCores</code> | <code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n \n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n <code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code>\n \n \n \n \n <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n <code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the license configuration. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
},

"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits":
{
"smithy.api#documentation": " Product information. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],

"traits": {
"smithy.api#documentation": " Creates a new license conversion task. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest":
{
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource you are converting the license type for. ",
"smithy.api#required": {}
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting from. \n For the structure of the source license, see Convert a license type using the AWS CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting to. For the structure of the destination license, see Convert a license type using the AWS CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the created license type conversion task. "
}
}
}

```
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "ReportGeneratorName": {
                "target":
"com.amazonaws.licensemanager#ReportGeneratorName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>",
                    "smithy.api#required": {}
```

```
            }
        },
        "Type": {
            "target": "com.amazonaws.licensemanager#ReportTypeList",
            "traits": {
                "smithy.api#documentation": "<p>Type of reports to generate. The following report types an be generated:</p>\n <ul>\n <li>\n <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p>\n </li>\n <li>\n <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n </li>\n </ul>",
                "smithy.api#required": {}
            }
        },

    "ReportContext": {
            "target": "com.amazonaws.licensemanager#ReportContext",
            "traits": {
                "smithy.api#documentation": "<p>Defines the type of license configuration the report generator tracks.</p>",
                "smithy.api#required": {}
            }
        },
        "ReportFrequency": {
            "target": "com.amazonaws.licensemanager#ReportFrequency",
            "traits": {
                "smithy.api#documentation": "<p>Frequency by which reports are generated.  Reports can be generated daily, monthly, or weekly.</p>",
                "smithy.api#required": {}
            }
        },
        "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientRequestToken",
            "traits": {
                "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                "smithy.api#required": {}
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the report generator.</p>"
            }
        },
        "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
                "smithy.api#documentation": "<p>Tags to add to the report generator.</p>"
```

```
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits":
 {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the new report
generator.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "Issuer": {
                "target": "com.amazonaws.licensemanager#Issuer",
                "traits": {
                    "smithy.api#documentation": "<p>License issuer.</p>",
                    "smithy.api#required": {}
                }
            },
```

"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region for the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation":
" Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {

"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {

"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}

}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{

```
            "target": "com.amazonaws.licensemanager#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License name.</p>",
                "smithy.api#required": {}
            }
        },
        "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product name.</p>",
                "smithy.api#required": {}
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#Issuer",
```

"traits": {
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation":
" Home Region of the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. ",
"smithy.api#required": {}

```
                }
            },
            "ClientToken": {
                "target":
 "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>License ARN.</p>"
                }
            },

          "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>New version of the license.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateToken": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateTokenRequest"
        },
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"output": {
"target": "com.amazonaws.licensemanager#CreateTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a long-lived token. \n A refresh token is a JWT token used to get an access token. With an access token,\n you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n call License Manager to manage the specified license. "
}
},
"com.amazonaws.licensemanager#CreateTokenRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n JWT token. ",
"smithy.api#required": {}
}
},
"RoleArns": {

"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n License Manager does not check whether the roles are in use. "
}
},
"ExpirationInDays": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Token expiration, in days, counted from token creation. The default is 365 days. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller to be included in the JWT token. The data is mapped\n to the amr claim of the JWT token. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Idempotency token, valid for 10 minutes. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CreateTokenResponse": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. "
}
},
"TokenType": {
"target": "com.amazonaws.licensemanager#TokenType",
"traits": {
"smithy.api#documentation": " Token type. "
}
},
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {

"smithy.api#documentation": " Refresh token,
encoded as a JWT token. "
}
}
}
},
"com.amazonaws.licensemanager#DateTime": {
"type": "timestamp"
},
"com.amazonaws.licensemanager#DatetimeRange": {
"type": "structure",
"members": {
"Begin": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Start of the time range. ",
"smithy.api#required": {}
}
},
"End": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " End of the time range. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a time range, in ISO8601-UTC
format. "
}
},
"com.amazonaws.licensemanager#DeleteGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"

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        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

    },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Deletes the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#DeleteGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "StatusReason": {
            "target": "com.amazonaws.licensemanager#StatusReasonMessage",
            "traits": {

    "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Current version of the grant.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanager#DeleteGrantResponse": {
    "type": "structure",
    "members": {
```

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            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation":
"<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#DeleteLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
```

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            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
         },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license configuration.</p> \n        <p>You cannot
delete a license configuration
 that is in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

"smithy.api#documentation": " ID of the license configuration. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified report generator. \n This action deletes the report generator, which stops it from generating future reports.\n The action cannot be reversed. It

has no effect on the previous reports from this generator. "
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to be deleted. ",
                    "smithy.api#required": {}
                }
            }
        }
    },

 "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#DeleteLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " Current version of the license. ",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseResponse": {
        "type": "structure",
        "members": {
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
                "traits": {
                    "smithy.api#documentation": " License status. "

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            }
        },
        "DeletionDate": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date when the license is deleted.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#DeleteToken": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
    },
    "errors": [
        {

  "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
    }
```

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},
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#DigitalSignatureMethod": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "JWT_PS384",
                    "name": "JWT_PS384"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#Entitlement": {
        "type": "structure",

  "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement name.</p>",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement resource. Use only if the unit is None.</p>"
                }
            },
            "MaxCount": {
                "target": "com.amazonaws.licensemanager#Long",
                "traits": {
```

"smithy.api#documentation": " Maximum entitlement count. Use if the unit is not None. "
}
},
"Overage": {
"target": "com.amazonaws.licensemanager#BoxBoolean",

"traits": {
"smithy.api#documentation": " Indicates whether overages are allowed. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementUnit",
"traits": {
"smithy.api#documentation": " Entitlement unit. ",
"smithy.api#required": {}
}
},
"AllowCheckIn": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether check-ins are allowed. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a resource entitled for use with a license. "
}
},
"com.amazonaws.licensemanager#EntitlementData": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data value. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {
"smithy.api#documentation": " Entitlement data unit. ",

"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Data associated
with an entitlement resource. "
}
},
"com.amazonaws.licensemanager#EntitlementDataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#EntitlementData"
}
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "Count",
"name": "COUNT"
},
{
"value": "None",
"name": "NONE"
},
{
"value": "Seconds",
"name": "SECONDS"
},
{
"value": "Microseconds",
"name": "MICROSECONDS"
},
{

"value": "Milliseconds",
"name": "MILLISECONDS"
},
{
"value": "Bytes",
"name": "BYTES"
},
{
"value": "Kilobytes",
"name": "KILOBYTES"
},

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{
   "value": "Megabytes",
   "name": "MEGABYTES"
},
{
   "value": "Gigabytes",
   "name": "GIGABYTES"
},
{
   "value": "Terabytes",
   "name": "TERABYTES"
},
{
   "value": "Bits",
   "name": "BITS"
},
{
   "value": "Kilobits",
   "name": "KILOBITS"
},
{
   "value": "Megabits",
   "name": "MEGABITS"
},
{
   "value": "Gigabits",
   "name": "GIGABITS"
},
{
   "value": "Terabits",
   "name": "TERABITS"
},
{
   "value": "Percent",
   "name": "PERCENT"
},
{
   "value": "Bytes/Second",
   "name": "BYTES_PER_SECOND"
},
{
   "value": "Kilobytes/Second",
   "name": "KILOBYTES_PER_SECOND"
},
{
   "value": "Megabytes/Second",
   "name": "MEGABYTES_PER_SECOND"
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},
            {
                "value": "Gigabytes/Second",
                "name": "GIGABYTES_PER_SECOND"
            },
            {
                "value": "Terabytes/Second",
                "name": "TERABYTES_PER_SECOND"
            },
            {
                "value": "Bits/Second",
                "name": "BITS_PER_SECOND"
            },
            {
                "value": "Kilobits/Second",
                "name": "KILOBITS_PER_SECOND"
            },
            {
                "value": "Megabits/Second",
                "name": "MEGABITS_PER_SECOND"
            },
            {
                "value": "Gigabits/Second",
                "name": "GIGABITS_PER_SECOND"
            },
            {
                "value": "Terabits/Second",

    "name": "TERABITS_PER_SECOND"
            },
            {
                "value": "Count/Second",
                "name": "COUNT_PER_SECOND"
            }
        ]
    }
},
"com.amazonaws.licensemanager#EntitlementList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Entitlement"
    }
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
```

```
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#EntitlementUnit": {

 "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "Count",
                "name": "COUNT"
            },
            {
                "value": "None",
                "name": "NONE"
            },
            {
                "value": "Seconds",
                "name": "SECONDS"
            },
            {
                "value": "Microseconds",
                "name": "MICROSECONDS"
            },
            {
                "value": "Milliseconds",
                "name": "MILLISECONDS"
            },
            {
                "value": "Bytes",
                "name": "BYTES"
            },
            {
                "value": "Kilobytes",
                "name": "KILOBYTES"

    },
            {
                "value": "Megabytes",
                "name": "MEGABYTES"
            },
            {
                "value": "Gigabytes",
```

"name": "GIGABYTES"
},
{
"value": "Terabytes",
"name": "TERABYTES"
},
{
"value": "Bits",
"name": "BITS"
},
{
"value": "Kilobits",
"name": "KILOBITS"
},
{
"value": "Megabits",
"name": "MEGABITS"
},
{
"value": "Gigabits",
"name": "GIGABITS"
},
{
"value": "Terabits",
"name": "TERABITS"
},
{
"value": "Percent",
"name": "PERCENT"
},
{
"value": "Bytes/Second",
"name": "BYTES_PER_SECOND"
},
{
"value": "Kilobytes/Second",
"name": "KILOBYTES_PER_SECOND"
},
{
"value": "Megabytes/Second",
"name": "MEGABYTES_PER_SECOND"
},
{
"value": "Gigabytes/Second",
"name": "GIGABYTES_PER_SECOND"
},
{
"value": "Terabytes/Second",

"name": "TERABYTES_PER_SECOND"
},
{

"value": "Bits/Second",
"name": "BITS_PER_SECOND"
},
{
"value": "Kilobits/Second",
"name": "KILOBITS_PER_SECOND"
},
{
"value": "Megabits/Second",
"name": "MEGABITS_PER_SECOND"
},
{
"value": "Gigabits/Second",
"name": "GIGABITS_PER_SECOND"
},
{
"value": "Terabits/Second",
"name": "TERABITS_PER_SECOND"
},
{
"value": "Count/Second",
"name": "COUNT_PER_SECOND"
}
]
}
},
"com.amazonaws.licensemanager#EntitlementUsage": {
"type": "structure",

"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement usage name. ",
"smithy.api#required": {}
}
},
"ConsumedValue": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Resource usage consumed. ",
"smithy.api#required": {}
}
},

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        "MaxCount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
             "traits": {
                "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
    }
},
"com.amazonaws.licensemanager#EntitlementUsageList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#EntitlementUsage"
    }
},
"com.amazonaws.licensemanager#ExtendLicenseConsumption": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
    },
    "errors": [
        {

    "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}
                }
            },
            "DryRun": {
                "target": "com.amazonaws.licensemanager#Boolean",
                "traits": {
                    "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
        "type": "structure",

        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>"
                }
            },
            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
                }
            }
        }
```

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    },
    "com.amazonaws.licensemanager#FailedDependencyException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            },
            "ErrorCode": {
                "target": "com.amazonaws.licensemanager#String"
            }
        },

     "traits": {
            "aws.protocols#awsQueryError": {
                "code": "FailedDependency",
                "httpResponseCode": 424
            },
            "smithy.api#documentation": "<p>A dependency required to run the API is missing.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 424
        }
    },
    "com.amazonaws.licensemanager#Filter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#FilterName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the filter. Filter names are case-sensitive.</p>"
                }
            },
            "Values": {
                "target": "com.amazonaws.licensemanager#FilterValues",
                "traits": {
                    "smithy.api#documentation": "<p>Filter values. Filter
 values are case-sensitive.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A filter name and value pair that is used to return more specific results
from a\n        describe operation. Filters can be used to match a set of resources by specific criteria,\n        such as
tags, attributes, or IDs.</p>"
        }
    },
    "com.amazonaws.licensemanager#FilterLimitExceededException": {
        "type": "structure",
        "members": {
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"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FilterLimitExceeded",
"httpResponseCode": 400
},
"smithy.api#documentation": " The request uses too many filters or too many filter values. ",
"smithy.api#error":
"client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter"
}
},
"com.amazonaws.licensemanager#FilterName": {
"type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
"type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#FilterValue",
"traits": {
"smithy.api#xmlName": "item"
}
}
},
"com.amazonaws.licensemanager#Filters": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter",
"traits": {
"smithy.api#xmlName":
"item"
}
}
},
"com.amazonaws.licensemanager#GetAccessToken": {
"type": "operation",

"input": {
"target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"

}
],
"traits": {
"smithy.api#documentation": " Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access tokens\n are valid for one hour. "
}
},
"com.amazonaws.licensemanager#GetAccessTokenRequest": {
"type": "structure",
"members": {
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token, encoded as a JWT token. ",
"smithy.api#required": {}
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Token properties to validate against those present in the JWT token. "
}

}
}

```
},
"com.amazonaws.licensemanager#GetAccessTokenResponse": {
    "type": "structure",
    "members": {
        "AccessToken": {
            "target": "com.amazonaws.licensemanager#TokenString",
            "traits": {
                "smithy.api#documentation": "<p>Temporary access token.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
```

```
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
                "smithy.api#documentation": "<p>Grant details.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",

    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
```

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license configuration. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Unique ID for the license configuration. "
}
},
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension for which the licenses are counted. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. "
}

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            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of available licenses.</p>"
                }
            },
            "LicenseCountHardLimit": {

    "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Sets the number of available licenses as a hard limit.</p>"
                }
            },
            "ConsumedLicenses": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses assigned to resources.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License configuration status.</p>"
                }
            },
            "OwnerAccountId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Account ID of the
owner of the license configuration.</p>"
                }
            },
            "ConsumedLicenseSummaryList": {
                "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>Summaries of the licenses consumed by resources.</p>"
                }
            },
            "ManagedResourceSummaryList": {
                "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>Summaries of the managed resources.</p>"
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
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"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList":
{
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is
uninstalled. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
"type":
"operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{

"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified license type conversion task. "
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information on. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted to. "

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        }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
                }
            },
            "StartTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
                }
            },
            "LicenseConversionTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                 "traits": {
                    "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
                }
            },
            "EndTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
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            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation":
"<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {
            "ReportGenerator": {
                "target": "com.amazonaws.licensemanager#ReportGenerator",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic
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reports about your license configurations. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseResponse": {
"type": "structure",
"members": {
"License": {
"target":
"com.amazonaws.licensemanager#License",
"traits": {
"smithy.api#documentation": " License details. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseUsage": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the usage of the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseUsageRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseUsageResponse":
{
"type": "structure",
"members": {
"LicenseUsage": {
"target": "com.amazonaws.licensemanager#LicenseUsage",
"traits": {
"smithy.api#documentation": " License usage details. "
}
}
}
},
"com.amazonaws.licensemanager#GetServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
},

"output": {
"target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets the License Manager settings for the current Region. "
}
},
"com.amazonaws.licensemanager#GetServiceSettingsRequest": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Regional S3 bucket path for storing reports, license trail event data, discovery data,\n and so on. "
}

},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " SNS topic configured to receive notifications from License Manager. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Indicates whether Organizations is integrated with License

Manager for\n cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether cross-account discovery is enabled. "
}

},
"LicenseManagerResourceShareArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource share. The License Manager management account \n provides member accounts with access to this share. "
}
}
}
},
"com.amazonaws.licensemanager#Grant": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"ParentArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Parent ARN. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. ",

"smithy.api#required": {}
}
},
"GranteePrincipalArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " The grantee principal ARN. ",

"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"Version": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. ",
"smithy.api#required": {}
}
},
"GrantedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Granted operations. ",
"smithy.api#required": {}
}
}
},
"traits": {

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        "smithy.api#documentation": "<p>Describes a grant.</p>"
    }
},
"com.amazonaws.licensemanager#GrantList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Grant"
    }
},
"com.amazonaws.licensemanager#GrantStatus": {
    "type": "string",

  "traits": {
        "smithy.api#enum": [
            {
                "value": "PENDING_WORKFLOW",
                "name": "PENDING_WORKFLOW"
            },
            {
                "value": "PENDING_ACCEPT",
                "name": "PENDING_ACCEPT"
            },
            {
                "value": "REJECTED",
                "name": "REJECTED"
            },
            {
                "value": "ACTIVE",
                "name": "ACTIVE"
            },
            {
                "value": "FAILED_WORKFLOW",
                "name": "FAILED_WORKFLOW"
            },
            {
                "value": "DELETED",
                "name": "DELETED"
            },
            {
                "value": "PENDING_DELETE",
                "name": "PENDING_DELETE"
             },
            {
                "value": "DISABLED",
                "name": "DISABLED"
            },
            {
                "value": "WORKFLOW_COMPLETED",
```

```
                "name": "WORKFLOW_COMPLETED"
            }
        ]
    }
},
"com.amazonaws.licensemanager#GrantedLicense": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License name.</p>"
            }

},
        "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product name.</p>"
            }
        },
        "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product SKU.</p>"
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>Granted license issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the granted license.</p>"

        }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
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"traits": {
"smithy.api#documentation": " Granted license status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the granted license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Granted license beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Granted license metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Creation time of the granted license. "

}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Version of the granted license. "
}
},

"ReceivedMetadata": {
"target": "com.amazonaws.licensemanager#ReceivedMetadata",
"traits": {
"smithy.api#documentation": " Granted license received metadata. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a license that is granted to a grantee. "
}
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#GrantedLicense"
}
},
"com.amazonaws.licensemanager#ISO8601DateTime":
{
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
}
},
"com.amazonaws.licensemanager#Integer": {
"type": "integer",
"traits": {
"smithy.api#box": {}
}
},
"com.amazonaws.licensemanager#InvalidParameterValueException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidParameterValueProvided",

"httpResponseCode": 400
},

"smithy.api#documentation": " One or more parameter values are not valid. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#InvalidResourceStateException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidResourceState",
"httpResponseCode": 400
},
"smithy.api#documentation": " License Manager cannot allocate a license to a resource because of its state. \n For example, you cannot allocate a license to an instance in the process of shutting\n down. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#InventoryFilter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the filter. ",
"smithy.api#required": {}
}
},
"Condition": {
"target": "com.amazonaws.licensemanager#InventoryFilterCondition",
"traits": {
"smithy.api#documentation": " Condition of the filter. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Value of the filter. "
}
}

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        },
        "traits": {
            "smithy.api#documentation": "<p>An inventory filter.</p>"
        }
    },
    "com.amazonaws.licensemanager#InventoryFilterCondition": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "EQUALS",
                    "name": "EQUALS"
                },
                {
                    "value": "NOT_EQUALS",
                    "name": "NOT_EQUALS"
                },
                {
                    "value": "BEGINS_WITH",
                    "name": "BEGINS_WITH"
                },
                {
                    "value": "CONTAINS",
                    "name": "CONTAINS"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#InventoryFilterList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#InventoryFilter"
        }
    },
    "com.amazonaws.licensemanager#Issuer": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>",
                    "smithy.api#required": {}
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
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"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
}
},
"traits": {

"smithy.api#documentation": " Details about the issuer of a license. "
}
},
"com.amazonaws.licensemanager#IssuerDetails": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. "
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer key fingerprint. "
}
}
},
"traits": {
"smithy.api#documentation": " Details associated with the issuer of a license. "
}
},
"com.amazonaws.licensemanager#License": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},

"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. "
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " License issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}

```
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>"

             }
            },
            "ConsumptionConfiguration": {
                "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
                }
            },
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>License metadata.</p>"
                }
            },
            "CreateTime": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>License creation time.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits":
{
                    "smithy.api#documentation": "<p>License version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfiguration": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}

},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension to use to track the license inventory. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Number of available licenses as a hard limit. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "

}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the license configuration. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the license configuration's owner. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",

"traits": {
"smithy.api#documentation": " Summaries for licenses consumed by various resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated
discovery information. "
}
}
},

"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource consuming licenses. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was associated with the resource. "
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {

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            "smithy.api#documentation": "<p>Describes an association with a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "AVAILABLE",
                    "name": "AVAILABLE"
                },
                {
                    "value": "DISABLED",
                    "name": "DISABLED"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceStatus": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {

"smithy.api#documentation": "<p>Status of the resource.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
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"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was initially associated with the resource. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}

},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
}
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfiguration"
}
},
"com.amazonaws.licensemanager#LicenseConversionContext": {
"type": "structure",
"members": {
"UsageOperation": {
"target": "com.amazonaws.licensemanager#UsageOperation",
"traits": {
"smithy.api#documentation": " The Usage operation value that corresponds to the license type you are converting your resource from. For more information about which platforms correspond to which usage operation values see Sample data: usage operation by platform\n \n "
}
}

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        },
        "traits": {
            "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTask": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the license type conversion task.</p>"
                }
            },
            "ResourceArn":
 {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource associated
with the license type\n        conversion task.</p>"
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license type this conversion task converted
from.</p>"
                }
            },
            "DestinationLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license type this conversion task converted
to.</p>"
                }
            },

   "Status": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
                "traits": {
                    "smithy.api#documentation": "<p>The status of the conversion task.</p>"
                }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
                }
```

```
            },
            "StartTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>The time the conversion task was started at.</p>"
                }
            },
            "LicenseConversionTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {

        "smithy.api#documentation": "<p>The time the usage operation value of the resource was changed.</p>"
                }
            },
            "EndTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTaskId": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            },
            "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
        "type":
"string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "IN_PROGRESS",
                    "name": "IN_PROGRESS"
                },
                {
                    "value": "SUCCEEDED",
                    "name": "SUCCEEDED"
                },
```

```
            {
                "value": "FAILED",
                "name": "FAILED"
            }
        ]
    }
},
"com.amazonaws.licensemanager#LicenseConversionTasks": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#LicenseConversionTask"
    }
},
"com.amazonaws.licensemanager#LicenseCountingType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "vCPU",
                "name": "VCPU"

           },
            {
                "value": "Instance",
                "name": "INSTANCE"
            },
            {
                "value": "Core",
                "name": "CORE"
            },
            {
                "value": "Socket",
                "name": "SOCKET"
            }
        ]
    }
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "PENDING_DELETE",
                "name": "PENDING_DELETE"
            },
            {
                "value": "DELETED",
                "name": "DELETED"
```

```
            }
        ]
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
     "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {
    "type": "structure",
    "members": {
        "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
        },
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Resource type.</p>"
            }
        },
        "ErrorMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Error message.</p>"

    }
        },
        "FailureTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Failure time.</p>"
            }
        },
        "OperationName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the operation.</p>"
            }
        },
        "ResourceOwnerId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the
```

resource. "
}
},
"OperationRequestedBy": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " The requester is \"License Manager Automated Discovery\". "
}
},
"MetadataList": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Reserved. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the failure of a license operation. "
}
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailure"
}
},
"com.amazonaws.licensemanager#LicenseSpecification": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "

```
        }
    },
    "com.amazonaws.licensemanager#LicenseSpecifications": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseSpecification"
        }
    },
    "com.amazonaws.licensemanager#LicenseStatus":
{
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "AVAILABLE",
                    "name": "AVAILABLE"
                },
                {
                    "value": "PENDING_AVAILABLE",
                    "name": "PENDING_AVAILABLE"
                },
                {
                    "value": "DEACTIVATED",
                    "name": "DEACTIVATED"
                },
                {
                    "value": "SUSPENDED",
                    "name": "SUSPENDED"
                },
                {
                    "value": "EXPIRED",
                    "name": "EXPIRED"
                },
                {
                    "value": "PENDING_DELETE",
                    "name": "PENDING_DELETE"
                },
                {

                 "value": "DELETED",
                    "name": "DELETED"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#LicenseUsage": {
        "type": "structure",
        "members": {
```

"EntitlementUsages": {
"target": "com.amazonaws.licensemanager#EntitlementUsageList",
"traits": {
"smithy.api#documentation": " License entitlement usages. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the entitlement usage associated with a license. "
}
},
"com.amazonaws.licensemanager#LicenseUsageException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {

"aws.protocols#awsQueryError": {
"code": "LicenseUsageFailure",
"httpResponseCode": 412
},
"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},

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            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the resource associations for the specified license
configuration.</p> \n        <p>Resource associations need not consume licenses from a license configuration. \n
For example, an AMI or a stopped instance might not consume a license (depending on \n        the license
rules).</p>"
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest":
 {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                 }
            }
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationAssociations": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
                "traits": {
```

"smithy.api#documentation": " Information about the associations for the license configuration. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants distributed for the specified license. "
}

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    },
    "com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
        "type": "structure",
        "members": {
            "GrantArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n
        <code>LicenseArn</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>GrantStatus</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>GranteePrincipalARN</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>ProductSKU</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>LicenseIssuerName</code>\n                </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                 "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
        "type": "structure",
        "members": {
            "Grants": {
                "target": "com.amazonaws.licensemanager#GrantList",
                "traits": {
                    "smithy.api#documentation": "<p>Distributed grant details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configuration operations that failed. "
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name of the license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse": {
"type": "structure",
"members": {
"LicenseOperationFailureList": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
"traits": {
"smithy.api#documentation": " License configuration operations that failed. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurations":
{
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{

"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},

{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configurations for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the license configurations. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>licenseCountingType</code> - The dimension for which licenses are counted.\n Possible values are <code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n
<code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement is used. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>usagelimitExceeded</code> - A Boolean value that indicates

whether the available licenses have been exceeded. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
"type": "structure",
"members": {
"LicenseConfigurations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurations",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "

}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasks": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target":
"com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"

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            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
        "type": "structure",
        "members": {
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                 "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>\n        Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n      </p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTasks": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configuration tasks for your
account.</p>"
                 }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
```

"com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the report generators for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest": {
"type":
"structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported:
\n \n \n \n <code>LicenseConfigurationArn</code>\n

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</p>\n            </li>\n         </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to
 return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
            "ReportGenerators": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorList",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
        "type": "operation",
        "input":
 {
            "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Describes the
 license configurations for the specified resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a resource that has an
associated license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",

             "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
        "type": "structure",
        "members": {
```

"LicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " License configurations associated with a resource. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation":
" Lists all versions of the specified license. "
}
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
"type": "structure",
"members": {
"LicenseArn": {

"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum
number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#LicenseList",
"traits": {
"smithy.api#documentation": " License details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenses": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicensesRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicensesResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses for your account. "
}
},
"com.amazonaws.licensemanager#ListLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>Status</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},

"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {

"target": "com.amazonaws.licensemanager#LicenseList",
"traits": {
"smithy.api#documentation": " License details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListReceivedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},

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            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists grants that are received but not accepted.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
        "type": "structure",

    "members": {
            "GrantArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>ProductSKU</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                <code>LicenseIssuerName</code>\n                </p>\n
</li>\n            <li>\n                <p>\n                <code>LicenseArn</code>\n                </p>\n            </li>\n
<li>\n                <p>\n
  <code>GrantStatus</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>GranterAccountId</code>\n                </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
```

```
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
        "type": "structure",
        "members": {
            "Grants": {

             "target": "com.amazonaws.licensemanager#GrantList",
                "traits": {
                    "smithy.api#documentation": "<p>Received grant details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicenses": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"

},
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists received licenses.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
        "type": "structure",

    "members": {
            "LicenseArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>ProductSKU</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                <code>Status</code>\n                </p>\n            </li>\n
<li>\n                <p>\n                <code>Fingerprint</code>\n                </p>\n            </li>\n            <li>\n
<p>\n                <code>IssuerName</code>\n
            </p>\n            </li>\n            <li>\n                <p>\n                <code>Beneficiary</code>\n                </p>\n
        </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
        "type": "structure",
        "members": {
            "Licenses": {
```

"target": "com.amazonaws.licensemanager#GrantedLicenseList",
"traits": {
"smithy.api#documentation": " Received license details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListResourceInventory": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"

},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FailedDependencyException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists resources managed using Systems Manager inventory. "

```
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryRequest": {

        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#InventoryFilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>account_id</code>
 - The ID of the Amazon Web Services account that owns the resource.\n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n
    <code>application_name</code> - The name of the application. \n                Logical operators are
<code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n            </li>\n            <li>\n                <p>\n
    <code>license_included</code> - The type of license included. \n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.\n                Possible values are <code>sql-server-
enterprise</code> | \n                <code>sql-server-standard</code> | \n                <code>sql-server-web</code> |  \n
        <code>windows-server-datacenter</code>.</p>\n            </li>\n            <li>\n                <p>\n
<code>platform</code> - The platform of the resource.\n
    Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n            </li>\n
<li>\n                <p>\n                    <code>resource_id</code> - The ID of the resource. \n                Logical operators
are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n
        <code>tag:<key></code> - The key/value combination of a tag assigned \n                to the resource. Logical
operators are <code>EQUALS</code> (single account) or\n                <code>EQUALS</code> |
<code>NOT_EQUALS</code> (cross account).</p>\n            </li>\n        </ul>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryResponse": {
        "type": "structure",
        "members": {
            "ResourceInventoryList": {
                "target": "com.amazonaws.licensemanager#ResourceInventoryList",
                "traits":
```

{
"smithy.api#documentation": " Information about the resources. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListTagsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the tags for the specified license configuration. "
}
},
"com.amazonaws.licensemanager#ListTagsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license

configuration. ",
"smithy.api#required":
{}
}
}
}
},
"com.amazonaws.licensemanager#ListTagsForResourceResponse": {
"type": "structure",
"members": {
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Information about the tags. "
}
}
}
},
"com.amazonaws.licensemanager#ListTokens": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListTokensRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListTokensResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target":
"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists your tokens. "
}
},

```
    "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
            "TokenIds": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Token IDs.</p>"
                }
            },
            "Filters": {
                "target":
 "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
    <ul>\n          <li>\n              <p>\n                <code>LicenseArns</code>\n              </p>\n          </li>\n
</ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListTokensResponse":
{
        "type": "structure",
        "members": {
            "Tokens": {
                "target": "com.amazonaws.licensemanager#TokenList",
                "traits": {
                    "smithy.api#documentation": "<p>Received token details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
```

```
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying
license\n        consumption details by resource
 at a selected point in time. Use this action to audit the\n        current license consumption for any license inventory
and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
```

```
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {

                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>resourceArn</code> - The ARN of the license configuration resource.\n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n
    <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> |
<code>EC2_HOST</code> | <code>EC2_AMI</code> |
<code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>).
 \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n
    <li>\n                <p>\n                <code>resourceAccount</code> - The ID of the account that owns the
resource. \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n
</li>\n        </ul>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationUsageList": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
```

```
"com.amazonaws.licensemanager#Location": {
    "type": "string"
},
"com.amazonaws.licensemanager#Long": {
    "type": "long",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummary": {
    "type": "structure",
    "members": {
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
            }
        },
        "AssociationCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {
    "type": "integer",
    "traits": {
        "smithy.api#box": {},
        "smithy.api#range": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
```

"target": "com.amazonaws.licensemanager#String"
},
"traits": {
"smithy.api#length": {
"min": 0,
"max": 3
}
}
},
"com.amazonaws.licensemanager#Message": {
"type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The key name. "
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The value. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes key/value pairs. "
}

},
"com.amazonaws.licensemanager#MetadataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Metadata"
}
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " There are no entitlements found for this license, or the entitlement

maximum count is reached. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#OrganizationConfiguration": {
"type": "structure",
"members": {
"EnableIntegration": {
"target": "com.amazonaws.licensemanager#Boolean",

"traits": {
"smithy.api#documentation": " Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {

"smithy.api#documentation": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n <code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n \n ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information for a license configuration. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
"type": "structure",
"members": {
"ProductInformationFilterName": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Filter name. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterValue": {
"target":
"com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " Filter value. "
}
},
"ProductInformationFilterComparator": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Logical operator. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information filters. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ProductInformationFilter"
}
},
"com.amazonaws.licensemanager#ProductInformationList": {
"type": "list",

"member": {
"target": "com.amazonaws.licensemanager#ProductInformation"
}
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
"type": "structure",
"members": {
"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the provisional configuration, in minutes. ",
"smithy.api#required": {}
}
}

```
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#RateLimitExceededException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"

       }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "RateLimitExceeded",
                "httpResponseCode": 429
            },
            "smithy.api#documentation": "<p>Too many requests have been submitted. Try again after a brief
wait.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 429
        }
    },
    "com.amazonaws.licensemanager#ReceivedMetadata": {
        "type": "structure",
        "members": {
            "ReceivedStatus": {
                "target": "com.amazonaws.licensemanager#ReceivedStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Received status.</p>"
                }
            },
            "ReceivedStatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {

        "smithy.api#documentation": "<p>Received status reason.</p>"
                }
            },
            "AllowedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed operations.</p>"
                }
            }
        },
        "traits": {
```

"smithy.api#documentation": " Metadata associated with received licenses and grants. "
}
},
"com.amazonaws.licensemanager#ReceivedStatus": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "PENDING_WORKFLOW",
"name": "PENDING_WORKFLOW"
},
{
"value": "PENDING_ACCEPT",
"name": "PENDING_ACCEPT"
},
{
"value": "REJECTED",
"name": "REJECTED"
},
{
"value": "ACTIVE",
"name": "ACTIVE"
},
{
"value": "FAILED_WORKFLOW",
"name": "FAILED_WORKFLOW"
},
{
"value": "DELETED",
"name": "DELETED"
},
{
"value": "DISABLED",
"name": "DISABLED"
},
{
"value": "WORKFLOW_COMPLETED",
"name": "WORKFLOW_COMPLETED"
}
]
}
},
"com.amazonaws.licensemanager#RedirectException": {
"type": "structure",
"members": {

"Location": {
"target": "com.amazonaws.licensemanager#Location",

```
            "traits": {
                "smithy.api#httpHeader": "Location"
            }
        },
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 308
    }
},
"com.amazonaws.licensemanager#RejectGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#RejectGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#RejectGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
    }
```

```
    },
    "com.amazonaws.licensemanager#RejectGrantRequest":
{
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"

        }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#RenewType": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "None",
                    "name": "NONE"
                },
                {
                    "value": "Weekly",
```

"name": "WEEKLY"
},
{
"value": "Monthly",
"name": "MONTHLY"
}
]
}
},
"com.amazonaws.licensemanager#ReportContext": {
"type": "structure",
"members": {

"licenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details of the license configuration that this generator reports on. "
}
},
"com.amazonaws.licensemanager#ReportFrequency": {
"type": "structure",
"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "

}
},
"period": {
"target": "com.amazonaws.licensemanager#ReportFrequencyType",
"traits": {
"smithy.api#documentation": " Time period between each report. The period can be daily, weekly, or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}

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},
"com.amazonaws.licensemanager#ReportFrequencyType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "DAY",
                "name": "DAY"
            },
            {
                "value": "WEEK",
                "name": "WEEK"
            },
            {
                "value": "MONTH",

        "name": "MONTH"
            }
        ]
    }
},
"com.amazonaws.licensemanager#ReportGenerator": {
    "type": "structure",
    "members": {
        "ReportGeneratorName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the report generator.</p>"
            }
        },
        "ReportType": {
            "target": "com.amazonaws.licensemanager#ReportTypeList",
            "traits": {
                "smithy.api#documentation": "<p>Type of reports that are generated.</p>"
            }
        },
        "ReportContext": {
            "target": "com.amazonaws.licensemanager#ReportContext",
            "traits": {
                "smithy.api#documentation": "<p>License configuration type for this generator.</p>"
             }
        },
        "ReportFrequency": {
            "target": "com.amazonaws.licensemanager#ReportFrequency",
            "traits": {
                "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
            }
        },
```

"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. "
}
},
"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}
},
"LastRunFailureReason": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Failure message for the last report generation attempt. "
}
},
"LastReportGenerationTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the last report was generated at. "
}
},
"ReportCreatorAccount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Web Services account ID used to create the report generator. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",

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            "traits": {
                "smithy.api#documentation": "<p>Time the report was created.</p>"
            }
        },
        "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
                "smithy.api#documentation": "<p>Tags associated with the report generator.</p>"
            }
        }
    },

"traits": {
        "smithy.api#documentation": "<p>Describe the details of a report generator.</p>"
    }
  },
  "com.amazonaws.licensemanager#ReportGeneratorList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportGenerator"
    }
  },
  "com.amazonaws.licensemanager#ReportGeneratorName": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 100
        }
    }
  },
  "com.amazonaws.licensemanager#ReportType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "LicenseConfigurationSummaryReport",
                "name": "LICENSE_CONFIGURATION_SUMMARY_REPORT"
            },
            {
                "value": "LicenseConfigurationUsageReport",
                 "name": "LICENSE_CONFIGURATION_USAGE_REPORT"
            }
        ]
    }
  },
  "com.amazonaws.licensemanager#ReportTypeList": {
    "type": "list",
```

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        "member": {
            "target": "com.amazonaws.licensemanager#ReportType"
        }
    },
    "com.amazonaws.licensemanager#ResourceInventory": {
        "type": "structure",
        "members": {
            "ResourceId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "Platform": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform of the resource.</p>"
                }
            },
            "PlatformVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
                }
            },
            "ResourceOwningAccountId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>ID of the account that owns the resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a resource.</p>"
        }
```

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    },
    "com.amazonaws.licensemanager#ResourceInventoryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ResourceInventory"
        }
    },
    "com.amazonaws.licensemanager#ResourceLimitExceededException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ResourceLimitExceeded",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>Your resource limits have
been exceeded.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#ResourceNotFoundException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidResource.NotFound",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>The resource cannot be found.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#ResourceType": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "EC2_INSTANCE",
```

"name": "EC2_INSTANCE"
},
{
"value": "EC2_HOST",
"name": "EC2_HOST"
},
{
"value": "EC2_AMI",
"name": "EC2_AMI"
},
{
"value": "RDS",
"name": "RDS"
},
{
"value": "SYSTEMS_MANAGER_MANAGED_INSTANCE",
"name": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
}
]
}
},
"com.amazonaws.licensemanager#S3Location": {
"type": "structure",
"members": {
"bucket": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the S3 bucket
reports are published to. "
}
},
"keyPrefix": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Prefix of the S3 bucket reports are published to. "
}
}
},
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published
to. "
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"

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            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InternalError",
                "httpResponseCode": 500
            },
            "smithy.api#documentation":
"<p>The server experienced an internal error. Try again.</p>",
            "smithy.api#error": "server",
            "smithy.api#httpError": 500
        }
    },
    "com.amazonaws.licensemanager#SignedToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 4096
            }
        }
    },
    "com.amazonaws.licensemanager#StatusReasonMessage": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 400
            },
            "smithy.api#pattern": "^[\\s\\S]+$"
        }
    },
    "com.amazonaws.licensemanager#String": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"

      }
    },
    "com.amazonaws.licensemanager#Tag": {
        "type": "structure",
        "members": {
            "Key": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag key.</p>"
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                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#TagList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Tag"
        }
    },
    "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

{
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": " Adds the specified tags to the specified license configuration. "
        }
    },
    "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
                    "smithy.api#required": {}
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": " One or more tags. ",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " Token ID. "
                }
            },
            "TokenType": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " Type of token generated. The supported value is <code>REFRESH_TOKEN</code>. "
                }

```
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "ExpirationTime": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Token expiration time, in ISO8601-UTC format.</p>"
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Data specified by the caller.</p>"
                }
            },
            "RoleArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the roles included in the
token.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token status. The possible values are
<code>AVAILABLE</code> and <code>DELETED</code>.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes a token.</p>"
        }
    },
    "com.amazonaws.licensemanager#TokenList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#TokenData"
        }
    },
    "com.amazonaws.licensemanager#TokenString": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
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                "min": 0,
                "max": 4096
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
    "com.amazonaws.licensemanager#TokenType":
{
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "REFRESH_TOKEN",
                    "name": "REFRESH_TOKEN"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The digital signature method is unsupported. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#UntagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UntagResourceRequest"
         },
        "output": {
            "target": "com.amazonaws.licensemanager#UntagResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
```

"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Removes the specified tags from the specified license configuration. "
}
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",
"traits": {
"smithy.api#documentation": " Keys identifying the tags to remove. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Modifies the attributes of an existing license configuration. "
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"LicenseConfigurationStatus": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
"traits": {
"smithy.api#documentation": " New status of the license configuration. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " New license rule. The only rule that you can add after you create a license\n configuration is licenseAffinityToHost. "
}
},

"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " New number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}

},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {

"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates a report generator. \n After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated. "

}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to update. ",
"smithy.api#required": {}
}

```
        },
        "ReportGeneratorName": {
          "target": "com.amazonaws.licensemanager#ReportGeneratorName",
          "traits": {
            "smithy.api#documentation": "<p>Name of the report generator.</p>",
            "smithy.api#required": {}
          }
        },
        "Type": {
          "target": "com.amazonaws.licensemanager#ReportTypeList",
          "traits": {
            "smithy.api#documentation": "<p>Type of reports to generate. The following report types are supported:</p>\n <ul>\n <li>\n <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p>\n </li>\n <li>\n <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n </li>\n </ul>",
            "smithy.api#required": {}
          }
        },
        "ReportContext": {
          "target": "com.amazonaws.licensemanager#ReportContext",
          "traits": {
            "smithy.api#documentation": "<p>The report context.</p>",
            "smithy.api#required": {}
          }
        },
        "ReportFrequency": {
          "target": "com.amazonaws.licensemanager#ReportFrequency",
          "traits": {
            "smithy.api#documentation": "<p>Frequency by which reports are generated.</p>",
            "smithy.api#required": {}
          }
        },
        "ClientToken": {
          "target": "com.amazonaws.licensemanager#ClientRequestToken",
          "traits": {
            "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
            "smithy.api#required": {}
          }
        },
        "Description": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Description of the report generator.</p>"
          }
        }
      }
```

```
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidResourceStateException"

        },
            {
                "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p> \n        <p>You can update the license specifications of AMIs, instances, and
hosts.\n        You cannot update the license specifications for launch templates and CloudFormation templates, \n
 as they send license configurations to the operation that creates the resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
        "type": "structure",
```

"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon Web Services resource. ",
"smithy.api#required": {}
}
},
"AddLicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " ARNs of the license configurations to add. "
}
},
"RemoveLicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " ARNs of the license configurations to remove. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where
the License Manager information is stored.</p>"
                }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon
 Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Enables integration with Organizations for cross-account
discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Activates cross-account discovery.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#UsageOperation": {
        "type":
```

```
 "string",
        "traits": {
          "smithy.api#length": {
            "min": 0,
            "max": 50
          }
        }
      },
      "com.amazonaws.licensemanager#ValidationException": {
        "type": "structure",
        "members": {
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 400
        }
      }
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType
```

```
 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 //
 Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
```

```
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err
 != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return
 nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
```

```
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
```

```
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
 err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
```

```
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
```

```
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

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```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {
```

```
// A structure containing data about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if
 err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
```

```
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}
```

1.4102 aws-sdk-go-v2-credentials 1.11.0

1.4102.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
```

```
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
```

```
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
 nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
```

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
```

```
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
```

```
 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err
 = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
```

```
 params = &CheckInLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*CheckInLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckInLicenseInput struct {

// License consumption token.
//
// This member is required.
LicenseConsumptionToken *string

// License beneficiary.
Beneficiary
*string

noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
```

```
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil
```

```
 {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
```

```
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
      uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
```

```
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string
```

```
 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity *types.DatetimeRange

 //
 Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
```

```
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
```

```
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
```

```
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region:        region,
 ServiceID:     ServiceID,
 SigningName:   "grafana",
```

```
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}
```

```
type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
```

```
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}
```

AWS SDK for Go

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```
{
   "smithy": "1.0",
   "metadata": {
       "suppressions": [
           {
               "id": "HttpMethodSemantics",
               "namespace": "*"
           },
```

```
        {
          "id": "HttpResponseCodeSemantics",
          "namespace": "*"
        },
        {
          "id": "PaginatedTrait",
          "namespace": "*"
        },
        {
          "id": "HttpHeaderTrait",
          "namespace": "*"
        },
        {
          "id": "HttpUriConflict",
          "namespace": "*"
        },
        {
          "id": "Service",
          "namespace": "*"
        }
    ]
  },
  "shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
      "type": "service",
      "version": "2018-08-01",
      "operations": [
        {
          "target": "com.amazonaws.licensemanager#AcceptGrant"
        },

 {
          "target": "com.amazonaws.licensemanager#CheckInLicense"
        },
        {
          "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
        },
        {
          "target": "com.amazonaws.licensemanager#CheckoutLicense"
        },
        {
          "target": "com.amazonaws.licensemanager#CreateGrant"
        },
        {
          "target": "com.amazonaws.licensemanager#CreateGrantVersion"
        },
        {
          "target": "com.amazonaws.licensemanager#CreateLicense"
```

```
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseVersion"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateToken"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteToken"
    },
    {
      "target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

  },
    {
      "target": "com.amazonaws.licensemanager#GetAccessToken"
    },
    {
      "target": "com.amazonaws.licensemanager#GetGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
    },
    {
```

"target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseUsage"
},
{
"target": "com.amazonaws.licensemanager#GetServiceSettings"
},
{
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#ListDistributedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
"target": "com.amazonaws.licensemanager#ListLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

"target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListResourceInventory"
},

{
"target": "com.amazonaws.licensemanager#ListTagsForResource"
},
{
"target": "com.amazonaws.licensemanager#ListTokens"
},
{
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#RejectGrant"
},
{
"target": "com.amazonaws.licensemanager#TagResource"
},
{
"target": "com.amazonaws.licensemanager#UntagResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateServiceSettings"
}
],
"traits": {
"aws.api#service": {
"sdkId": "License Manager",
"arnNamespace": "license-manager",
"cloudFormationName": "LicenseManager",
"cloudTrailEventSource": "licensemanager.amazonaws.com",
"endpointPrefix":
"license-manager"
},
"aws.auth#sigv4": {
"name": "license-manager"
},
"aws.protocols#awsJson1_1": {},
"smithy.api#documentation": " License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers. ",
"smithy.api#title": "AWS License Manager",
"smithy.api#xmlNamespace": {

```
                "uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
            }
        }
    },
    "com.amazonaws.licensemanager#AcceptGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#AcceptGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
        },
        "errors": [
            {

           "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantRequest":
{
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
```

```
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanager#AcceptGrantResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant
status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#AccessDeniedException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "ServiceAccessDenied",
            "httpResponseCode": 401
        },
        "smithy.api#documentation": "<p>Access to resource denied.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 401
    }
},
"com.amazonaws.licensemanager#AllowedOperation":
```

```
{
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "CreateGrant",
                    "name": "CREATE_GRANT"
                },
                {
                    "value": "CheckoutLicense",
                    "name": "CHECKOUT_LICENSE"
                },
                {
                    "value": "CheckoutBorrowLicense",
                    "name": "CHECKOUT_BORROW_LICENSE"
                },
                {
                    "value": "CheckInLicense",
                    "name": "CHECK_IN_LICENSE"
                },
                {
                    "value": "ExtendConsumptionLicense",
                    "name": "EXTEND_CONSUMPTION_LICENSE"
                },
                {
                    "value": "ListPurchasedLicenses",
                    "name": "LIST_PURCHASED_LICENSES"
                 },
                {
                    "value": "CreateToken",
                    "name": "CREATE_TOKEN"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#AllowedOperationList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#AllowedOperation"
        },
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max": 7
            }
        }
    },
    "com.amazonaws.licensemanager#Arn": {
```

"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
}
},
"com.amazonaws.licensemanager#ArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
}
},
"com.amazonaws.licensemanager#AuthorizationException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "AuthorizationFailure",
"httpResponseCode": 403
},
"smithy.api#documentation": " The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n policy associated with this account. ",
"smithy.api#error": "client",
"smithy.api#httpError": 403
}
},
"com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
"type": "structure",
"members": {
"LastRunTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time that automated discovery last ran. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes automated discovery. "
}

```
},
"com.amazonaws.licensemanager#Boolean": {
    "type": "boolean"
},
"com.amazonaws.licensemanager#BorrowConfiguration": {
    "type": "structure",
    "members": {
        "AllowEarlyCheckIn": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Indicates whether early check-ins are allowed.</p>",
                 "smithy.api#required": {}
            }
        },
        "MaxTimeToLiveInMinutes": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
    }
},
"com.amazonaws.licensemanager#BoxBoolean": {
    "type": "boolean",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#BoxInteger": {
    "type": "integer",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#BoxLong": {

"type": "long",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#CheckInLicense": {
    "type": "operation",
    "input": {
```

"target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks in the specified license. Check in a license when it is no longer in use. "
}
},
"com.amazonaws.licensemanager#CheckInLicenseRequest": {
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",

"smithy.api#required": {}
}
},
"Beneficiary": {

```
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License beneficiary.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CheckInLicenseResponse": {
    "type": "structure",
    "members": {}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },

{
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
```

{

"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks out the specified license for offline use. "
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The license must use the borrow consumption configuration. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. Partial checkouts are not supported. ",
"smithy.api#required": {}
}
},
"DigitalSignatureMethod": {
"target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
"traits": {
"smithy.api#documentation": " Digital signature method. The possible value is JSON Web Signature (JWS) algorithm PS384.\n For more information, see RFC 7518 Digital Signature with RSASSA-PSS. ",
"smithy.api#required": {}
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",

"traits": {
"smithy.api#documentation": " Information about constraints. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",

"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " Allowed license entitlements. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"SignedToken": {

"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}

```
            },
            "IssuedAt": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
                }
            },
            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
                }
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation":
"<p>Information about constraints.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CheckoutLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {

 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
```

"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks out the specified license. "
}
},
"com.amazonaws.licensemanager#CheckoutLicenseRequest": {
"type": "structure",
"members": {
"ProductSKU":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. ",
"smithy.api#required": {}
}
},
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. ",
"smithy.api#required": {}
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Key fingerprint identifying the license. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. ",

"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Node ID. "
}
}
}
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
"type": "structure",
"members": {
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " Allowed license entitlements. "
}
},

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        "SignedToken": {
            "target": "com.amazonaws.licensemanager#SignedToken",
            "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
            }
        },
        "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        },
        "IssuedAt": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
            }
        },
        "Expiration": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",

          "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
            }
        },
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CheckoutType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "PROVISIONAL",
                "name": "PROVISIONAL"
            },
            {
                "value": "PERPETUAL",
                "name": "PERPETUAL"
            }
        ]
    }
},
```

"com.amazonaws.licensemanager#ClientRequestToken":
{
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 36
}
}
},
"com.amazonaws.licensemanager#ClientToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#ConflictException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ConflictException",
"httpResponseCode": 409
},
"smithy.api#documentation": " There
was a conflict processing the request. Try your request again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 409
}
},
"com.amazonaws.licensemanager#ConsumedLicenseSummary": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Resource type of the resource consuming a license. "
}
},
"ConsumedLicenses": {

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            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about license consumption.</p>"
    }
},
"com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
    }
},
"com.amazonaws.licensemanager#ConsumptionConfiguration": {
    "type": "structure",
    "members": {
        "RenewType": {
            "target": "com.amazonaws.licensemanager#RenewType",
            "traits": {
                "smithy.api#documentation": "<p>Renewal frequency.</p>"
            }
        },
        "ProvisionalConfiguration": {
            "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
            }
        },
        "BorrowConfiguration": {

            "target": "com.amazonaws.licensemanager#BorrowConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
    }
},
"com.amazonaws.licensemanager#CreateGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateGrantRequest"
    },
```

"output": {
"target": "com.amazonaws.licensemanager#CreateGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a grant for the specified license. A grant shares the use of license entitlements with specific Amazon Web Services accounts. "
}
},
"com.amazonaws.licensemanager#CreateGrantRequest": {
"type": "structure",
"members": {

"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",

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                "smithy.api#required": {}
            }
        },
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
        },

    "Principals": {
            "target": "com.amazonaws.licensemanager#PrincipalArnList",
            "traits": {
                "smithy.api#documentation": "<p>The grant principals.</p>",
                "smithy.api#required": {}
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "AllowedOperations": {
            "target": "com.amazonaws.licensemanager#AllowedOperationList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed operations for the grant.</p>",
                "smithy.api#required": {}
            }
        }
    }
  },
  "com.amazonaws.licensemanager#CreateGrantResponse":
{
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
```

```
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    }
  },
  "com.amazonaws.licensemanager#CreateGrantVersion": {
    "type": "operation",
    "input": {

"target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {

          "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a new version of the specified grant.</p>"
    }
  },
  "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
```

"type": "structure",
"members": {
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",

"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the grant. "
}
}

```
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant
status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>New version of the grant.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
```

"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a license. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Creates a license configuration. \n A license configuration is an abstraction of a customer license
agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a \n license must be associated with a host), and the number of licenses purchased and used. "

```
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Description of the license configuration.</p>"
                }
            },
            "LicenseCountingType": {
                "target": "com.amazonaws.licensemanager#LicenseCountingType",
                "traits": {
                    "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
                }
            },
            "LicenseCountHardLimit": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {

    "smithy.api#documentation": "<p>Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n        blocks the launch of new instances.</p>"
                }
            },
            "LicenseRules": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n        vary by dimension, as follows.</p>\n <ul>\n        <li>\n            <p>\n                <code>Cores</code> dimension: <code>allowedTenancy</code> |\n        <code>licenseAffinityToHost</code> |\n            <code>maximumCores</code> | <code>minimumCores</code>\n            </p>\n        </li>\n        <li>\n            <p>\n <code>Instances</code> dimension: <code>allowedTenancy</code> | \n            <code>maximumCores</code>
```

| <code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n \n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n <code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code>\n \n \n \n \n <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n <code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the license configuration. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a new license conversion task. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest":
{
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource you are converting the license type for. ",
"smithy.api#required": {}
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting from. \n For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-

manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the AWS CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting to. For the structure of the destination license, see Convert a license type using the AWS CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the created license type conversion task. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"

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            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "ReportGeneratorName": {
                "target":
 "com.amazonaws.licensemanager#ReportGeneratorName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>",
                    "smithy.api#required": {}
                }
            },
            "Type": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports to generate. The following report types an be
generated:</p>\n        <ul>\n            <li>\n                <p>License configuration report - Reports the number and
details of consumed licenses for a license configuration.</p>\n            </li>\n            <li>\n                <p>Resource
report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n            </li>\n
</ul>",
                    "smithy.api#required": {}
                }
            },

        "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
                    "smithy.api#documentation": "<p>Defines the type of license configuration the report generator
tracks.</p>",
                    "smithy.api#required": {}
                }
```

```
            },
            "ReportFrequency": {
                "target": "com.amazonaws.licensemanager#ReportFrequency",
                "traits": {
                    "smithy.api#documentation": "<p>Frequency by which reports are generated.  Reports can be
generated daily, monthly, or weekly.</p>",
                    "smithy.api#required": {}
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientRequestToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide
 to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the report generator.</p>"
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Tags to add to the report generator.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits":
 {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the new report
generator.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseName": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. ",
"smithy.api#required": {}
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits": {
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region for the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation":
" Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}

```
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>",
                    "smithy.api#required": {}
                }
            },
            "ConsumptionConfiguration": {
                "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
                "traits": {

             "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional configuration for workloads\n          running with continuous connectivity. Choose a borrow configuration for workloads with offline\n          usage.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}

    }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>"
```

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            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersion":
{
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
    }
```

```
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "LicenseName": {
          "target": "com.amazonaws.licensemanager#String",
           "traits": {
            "smithy.api#documentation": "<p>License name.</p>",
            "smithy.api#required": {}
          }
        },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product name.</p>",
            "smithy.api#required": {}
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#Issuer",
          "traits": {
            "smithy.api#documentation": "<p>License issuer.</p>",
            "smithy.api#required": {}
          }
        },
        "HomeRegion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation":
 "<p>Home Region of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "Validity": {
          "target": "com.amazonaws.licensemanager#DatetimeRange",
          "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
            "smithy.api#required": {}
          }
        },
```

"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
"type": "structure",

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    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>License ARN.</p>"
            }
        },

   "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>New version of the license.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CreateToken": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateTokenResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },

  {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
```

"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a long-lived token. \n A refresh token is a JWT token used to get an access token. With an access token,\n you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n call License Manager to manage the specified license. "
}
},
"com.amazonaws.licensemanager#CreateTokenRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n JWT token. ",
"smithy.api#required": {}
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n License Manager does not check whether the roles are in use. "
}
},
"ExpirationInDays": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Token expiration, in days, counted from token creation. The default is 365 days. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller to be included in the JWT token. The data is mapped\n to the amr claim of the JWT token. "
}
},
"ClientToken": {

"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation":
" Idempotency token, valid for 10 minutes. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CreateTokenResponse": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. "
}
},
"TokenType": {
"target": "com.amazonaws.licensemanager#TokenType",
"traits": {
"smithy.api#documentation": " Token type. "
}
},
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token,
encoded as a JWT token. "
}
}
}
},
"com.amazonaws.licensemanager#DateTime": {
"type": "timestamp"
},
"com.amazonaws.licensemanager#DatetimeRange": {
"type": "structure",
"members": {
"Begin": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Start of the time range. ",
"smithy.api#required": {}
}
},
"End": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",

```
            "traits": {
                "smithy.api#documentation": "<p>End of the time range.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC
format.</p>"
    }
},
"com.amazonaws.licensemanager#DeleteGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

    },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Deletes the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#DeleteGrantRequest": {
    "type": "structure",
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```
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
              "smithy.api#required": {}
            }
          },
          "StatusReason": {
            "target": "com.amazonaws.licensemanager#StatusReasonMessage",
            "traits": {

        "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Current version of the grant.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanager#DeleteGrantResponse": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation":
"<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Grant version.</p>"
            }
          }
        }
      },
```

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"com.amazonaws.licensemanager#DeleteLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Deletes the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
    },
    "errors": [
        {
```

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license configuration. \n You cannot delete a license configuration
that is in use. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the license configuration. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"

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            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

        "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified report generator.</p>\n        <p>This action
deletes the report generator, which stops it from generating future reports.\n        The action cannot be reversed. It
has no effect on the previous reports from this generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to be
deleted.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },

  "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {}
    },
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"com.amazonaws.licensemanager#DeleteLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#DeleteLicenseResponse":
{
"type": "structure",
"members": {
"Status": {
"target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"DeletionDate": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date when the license is deleted. "
}
}
}
},
"com.amazonaws.licensemanager#DeleteToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteTokenResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified token. Must be called in the license home Region. "
}

},
"com.amazonaws.licensemanager#DeleteTokenRequest": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#DeleteTokenResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#DigitalSignatureMethod": {
"type": "string",
"traits": {
"smithy.api#enum": [
{

```
                "value": "JWT_PS384",
                "name": "JWT_PS384"
            }
        ]
    }
  },
  "com.amazonaws.licensemanager#Entitlement": {
    "type": "structure",

"members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement name.</p>",
                "smithy.api#required": {}
            }
        },
        "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement resource. Use only if the unit is None.</p>"
            }
        },
        "MaxCount": {
            "target": "com.amazonaws.licensemanager#Long",
            "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
            }
        },
        "Overage": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",

  "traits": {
                "smithy.api#documentation": "<p>Indicates whether overages are allowed.</p>"
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementUnit",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement unit.</p>",
                "smithy.api#required": {}
            }
        },
        "AllowCheckIn": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Indicates whether check-ins are allowed.</p>"
            }
```

```
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes a resource entitled for use with a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementData": {
        "type": "structure",
         "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement data name.</p>",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement data value.</p>"
                }
            },
            "Unit": {
                "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement data unit.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Data associated
with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementDataList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementData"
        }
    },
    "com.amazonaws.licensemanager#EntitlementDataUnit": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "Count",
                    "name": "COUNT"
```

```
            },
            {
              "value": "None",
              "name": "NONE"
            },
            {
              "value": "Seconds",
              "name": "SECONDS"
            },
            {
              "value": "Microseconds",
              "name": "MICROSECONDS"
            },
            {

"value": "Milliseconds",
              "name": "MILLISECONDS"
            },
            {
              "value": "Bytes",
              "name": "BYTES"
            },
            {
              "value": "Kilobytes",
              "name": "KILOBYTES"
            },
            {
              "value": "Megabytes",
              "name": "MEGABYTES"
            },
            {
              "value": "Gigabytes",
              "name": "GIGABYTES"
            },
            {
              "value": "Terabytes",
              "name": "TERABYTES"
            },
            {
              "value": "Bits",
              "name": "BITS"
            },
            {
              "value": "Kilobits",
              "name": "KILOBITS"
             },
            {
              "value": "Megabits",
```

"name": "MEGABITS"
},
{
"value": "Gigabits",
"name": "GIGABITS"
},
{
"value": "Terabits",
"name": "TERABITS"
},
{
"value": "Percent",
"name": "PERCENT"
},
{
"value": "Bytes/Second",
"name": "BYTES_PER_SECOND"
},
{
"value": "Kilobytes/Second",
"name": "KILOBYTES_PER_SECOND"
},
{
"value": "Megabytes/Second",
"name": "MEGABYTES_PER_SECOND"

},
{
"value": "Gigabytes/Second",
"name": "GIGABYTES_PER_SECOND"
},
{
"value": "Terabytes/Second",
"name": "TERABYTES_PER_SECOND"
},
{
"value": "Bits/Second",
"name": "BITS_PER_SECOND"
},
{
"value": "Kilobits/Second",
"name": "KILOBITS_PER_SECOND"
},
{
"value": "Megabits/Second",
"name": "MEGABITS_PER_SECOND"
},
{

"value": "Gigabits/Second",
"name": "GIGABITS_PER_SECOND"
},
{
"value": "Terabits/Second",

"name": "TERABITS_PER_SECOND"
},
{
"value": "Count/Second",
"name": "COUNT_PER_SECOND"
}
]
}
},
"com.amazonaws.licensemanager#EntitlementList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Entitlement"
}
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The entitlement is not allowed. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#EntitlementUnit": {

"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "Count",
"name": "COUNT"
},
{
"value": "None",
"name": "NONE"
},
{

"value": "Seconds",
"name": "SECONDS"
},
{
"value": "Microseconds",
"name": "MICROSECONDS"
},
{
"value": "Milliseconds",
"name": "MILLISECONDS"
},
{
"value": "Bytes",
"name": "BYTES"
},
{
"value": "Kilobytes",
"name": "KILOBYTES"

},
{
"value": "Megabytes",
"name": "MEGABYTES"
},
{
"value": "Gigabytes",
"name": "GIGABYTES"
},
{
"value": "Terabytes",
"name": "TERABYTES"
},
{
"value": "Bits",
"name": "BITS"
},
{
"value": "Kilobits",
"name": "KILOBITS"
},
{
"value": "Megabits",
"name": "MEGABITS"
},
{
"value": "Gigabits",
"name": "GIGABITS"
},

{
"value": "Terabits",
"name": "TERABITS"
},
{
"value": "Percent",
"name": "PERCENT"
},
{
"value": "Bytes/Second",
"name": "BYTES_PER_SECOND"
},
{
"value": "Kilobytes/Second",
"name": "KILOBYTES_PER_SECOND"
},
{
"value": "Megabytes/Second",
"name": "MEGABYTES_PER_SECOND"
},
{
"value": "Gigabytes/Second",
"name": "GIGABYTES_PER_SECOND"
},
{
"value": "Terabytes/Second",
"name": "TERABYTES_PER_SECOND"
},
{

"value": "Bits/Second",
"name": "BITS_PER_SECOND"
},
{
"value": "Kilobits/Second",
"name": "KILOBITS_PER_SECOND"
},
{
"value": "Megabits/Second",
"name": "MEGABITS_PER_SECOND"
},
{
"value": "Gigabits/Second",
"name": "GIGABITS_PER_SECOND"
},
{
"value": "Terabits/Second",
"name": "TERABITS_PER_SECOND"

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            },
            {
                "value": "Count/Second",
                "name": "COUNT_PER_SECOND"
            }
        ]
    }
},
"com.amazonaws.licensemanager#EntitlementUsage": {
    "type": "structure",

"members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                "smithy.api#required": {}
            }
        },
        "ConsumedValue": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxCount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
             "traits": {
                "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
    }
},
"com.amazonaws.licensemanager#EntitlementUsageList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#EntitlementUsage"
```

```
    }
},
"com.amazonaws.licensemanager#ExtendLicenseConsumption": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
    },
    "errors": [
        {

    "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
    }
},
 "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
    "type": "structure",
    "members": {
        "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>",
                "smithy.api#required": {}
            }
        },
```

"DryRun": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#documentation": " Checks whether you have the required permissions for the action, without actually making the request. Provides an error response if you do not have the required permissions. "
}
}
}
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
"type": "structure",

"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license consumption expires. "
}
}
}
},
"com.amazonaws.licensemanager#FailedDependencyException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
},
"ErrorCode": {
"target": "com.amazonaws.licensemanager#String"
}
},

"traits": {
"aws.protocols#awsQueryError": {
"code": "FailedDependency",
"httpResponseCode": 424
},
"smithy.api#documentation": " A dependency required to run the API is missing. ",
"smithy.api#error": "client",
"smithy.api#httpError": 424
}
},

"com.amazonaws.licensemanager#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#FilterName",
"traits": {
"smithy.api#documentation": " Name of the filter. Filter names are case-sensitive. "
}
},
"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " Filter values. Filter values are case-sensitive. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter name and value pair that is used to return more specific results from a\n describe operation. Filters can be used to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FilterLimitExceeded",
"httpResponseCode": 400
},
"smithy.api#documentation": " The request uses too many filters or too many filter values. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter"
}
},
"com.amazonaws.licensemanager#FilterName": {

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        "type": "string"
    },
    "com.amazonaws.licensemanager#FilterValue": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#FilterValues": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#FilterValue",
            "traits": {
                "smithy.api#xmlName": "item"
            }
        }
    },
    "com.amazonaws.licensemanager#Filters": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Filter",
            "traits": {
                "smithy.api#xmlName":
"item"
            }
        }
    },
    "com.amazonaws.licensemanager#GetAccessToken": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
```

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            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access tokens\n          are valid for one hour.</p>"
          }
        },
        "com.amazonaws.licensemanager#GetAccessTokenRequest": {
          "type": "structure",
          "members": {
            "Token": {
              "target": "com.amazonaws.licensemanager#TokenString",
              "traits": {
                "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
                "smithy.api#required": {}
              }
            },
            "TokenProperties": {
              "target": "com.amazonaws.licensemanager#MaxSize3StringList",
              "traits": {
                "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT
token.</p>"
              }

            }
          }
        },
        "com.amazonaws.licensemanager#GetAccessTokenResponse": {
          "type": "structure",
          "members": {
            "AccessToken": {
              "target": "com.amazonaws.licensemanager#TokenString",
              "traits": {
                "smithy.api#documentation": "<p>Temporary access token.</p>"
              }
            }
          }
        },
        "com.amazonaws.licensemanager#GetGrant": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanager#GetGrantRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanager#GetGrantResponse"
          },
          "errors": [
            {
```

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified grant. "
}
},
"com.amazonaws.licensemanager#GetGrantRequest": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
}
},
"com.amazonaws.licensemanager#GetGrantResponse": {
"type": "structure",
"members": {
"Grant": {
"target": "com.amazonaws.licensemanager#Grant",

```
            "traits": {
                "smithy.api#documentation": "<p>Grant details.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",

    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
     "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
    },
    "errors": [
```

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            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license
configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId":
 {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
```

```
            }
        },
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the license configuration.</p>"
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation":
"<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
                "smithy.api#documentation": "<p>Dimension for which the licenses are counted.</p>"
            }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules.</p>"
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of available licenses.</p>"
            }
        },
        "LicenseCountHardLimit": {

  "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Sets the number of available licenses as a hard limit.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses assigned to resources.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " License configuration status. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the
owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList":
{
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is
uninstalled. "
}

```
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConversionTask": {
        "type":
 "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets
 information about the specified license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license type conversion task to retrieve information
on.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
```

"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license
type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license
conversion task is associated with. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted to. "

}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " Status of the license type conversion task. "
}
},
"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was started . "
}
},
"LicenseConversionTime": {

"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Amount of time to complete the license type conversion. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was completed. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],

"traits": {
"smithy.api#documentation":
" Gets information about the specified report generator. "
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"ReportGenerator": {
"target": "com.amazonaws.licensemanager#ReportGenerator",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic
reports about your license configurations. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseResponse": {

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        "type": "structure",
        "members": {
            "License": {
                "target":
"com.amazonaws.licensemanager#License",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseUsage": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
```

"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseUsageResponse":
{
"type": "structure",
"members": {
"LicenseUsage": {
"target": "com.amazonaws.licensemanager#LicenseUsage",
"traits": {
"smithy.api#documentation": " License usage details. "
}
}
}
},
"com.amazonaws.licensemanager#GetServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets the License Manager settings for the current Region. "
}
},
"com.amazonaws.licensemanager#GetServiceSettingsRequest": {
"type": "structure",

"members": {}
},
"com.amazonaws.licensemanager#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Regional S3 bucket path for storing reports, license trail event data, discovery data,\n and so on. "
}

},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " SNS topic configured to receive notifications from License Manager. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Indicates whether Organizations is integrated with License Manager for\n cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether cross-account discovery is enabled. "
}

},
"LicenseManagerResourceShareArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource share. The License Manager management account \n provides member accounts with access to this share. "
}
}
}
},
"com.amazonaws.licensemanager#Grant": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",

"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"ParentArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Parent ARN. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. ",
"smithy.api#required": {}
}
},
"GranteePrincipalArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " The grantee principal ARN. ",

"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}

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        },
        "StatusReason": {
            "target": "com.amazonaws.licensemanager#StatusReasonMessage",
            "traits": {
                "smithy.api#documentation": "<p>Grant status reason.</p>"
            }
        },
        "Version": {

    "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>",
                "smithy.api#required": {}
            }
        },
        "GrantedOperations": {
            "target": "com.amazonaws.licensemanager#AllowedOperationList",
            "traits": {
                "smithy.api#documentation": "<p>Granted operations.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes a grant.</p>"
    }
},
"com.amazonaws.licensemanager#GrantList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Grant"
    }
},
"com.amazonaws.licensemanager#GrantStatus": {
    "type": "string",

  "traits": {
        "smithy.api#enum": [
            {
                "value": "PENDING_WORKFLOW",
                "name": "PENDING_WORKFLOW"
            },
            {
                "value": "PENDING_ACCEPT",
                "name": "PENDING_ACCEPT"
            },
            {
                "value": "REJECTED",
```

"name": "REJECTED"
},
{
"value": "ACTIVE",
"name": "ACTIVE"
},
{
"value": "FAILED_WORKFLOW",
"name": "FAILED_WORKFLOW"
},
{
"value": "DELETED",
"name": "DELETED"
},
{
"value": "PENDING_DELETE",
"name": "PENDING_DELETE"
},
{
"value": "DISABLED",
"name": "DISABLED"
},
{
"value": "WORKFLOW_COMPLETED",
"name": "WORKFLOW_COMPLETED"
}
]
}
},
"com.amazonaws.licensemanager#GrantedLicense": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. "
}

},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " Granted license issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the granted license. "

}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " Granted license status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the granted license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Granted license beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {

"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Granted license metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Creation time of the granted license. "

}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Version of the granted license. "
}
},
"ReceivedMetadata": {
"target": "com.amazonaws.licensemanager#ReceivedMetadata",
"traits": {
"smithy.api#documentation": " Granted license received metadata. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a license that is granted to a grantee. "
}
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#GrantedLicense"
}
},
"com.amazonaws.licensemanager#ISO8601DateTime":
{
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50

```
            },
            "smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[ 0-3]|[0-1][0-9]):[0-5][0-9])+$"
        }
    },
    "com.amazonaws.licensemanager#Integer": {
        "type": "integer",
        "traits": {
            "smithy.api#box": {}
        }
    },
    "com.amazonaws.licensemanager#InvalidParameterValueException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidParameterValueProvided",

 "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>One or more parameter values are not valid.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InvalidResourceStateException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidResourceState",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its state. </p>\n        <p>For example, you cannot allocate a license to an instance in the process of shutting\n down.</p>",
            "smithy.api#error": "client",
             "smithy.api#httpError": 400
        }
    },
```

"com.amazonaws.licensemanager#InventoryFilter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the filter. ",
"smithy.api#required": {}
}
},
"Condition": {
"target": "com.amazonaws.licensemanager#InventoryFilterCondition",
"traits": {
"smithy.api#documentation": " Condition of the filter. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Value
of the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " An inventory filter. "
}
},
"com.amazonaws.licensemanager#InventoryFilterCondition": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "EQUALS",
"name": "EQUALS"
},
{
"value": "NOT_EQUALS",
"name": "NOT_EQUALS"
},
{
"value": "BEGINS_WITH",
"name": "BEGINS_WITH"
},
{
"value": "CONTAINS",
"name": "CONTAINS"

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                }
            ]
        }
    },
    "com.amazonaws.licensemanager#InventoryFilterList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#InventoryFilter"
        }
    },
    "com.amazonaws.licensemanager#Issuer": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>",
                    "smithy.api#required": {}
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS
key must have a key usage of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing
algorithm.</p>"
                }
            }
        },
        "traits": {

     "smithy.api#documentation": "<p>Details about the issuer of a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#IssuerDetails": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>"
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS
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key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer key fingerprint. "
}
}
},
"traits": {
"smithy.api#documentation": " Details associated with the issuer of a license. "
}
},
"com.amazonaws.licensemanager#License": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. "
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " License issuer. "
}
},

"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "

}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " License metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License creation time. "

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            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits":
{
              "smithy.api#documentation": "<p>License version.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
        }
      },
      "com.amazonaws.licensemanager#LicenseConfiguration": {
        "type": "structure",
        "members": {
          "LicenseConfigurationId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
            }
          },
          "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }

        },
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Name of the license configuration.</p>"
            }
          },
          "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
          },
          "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
              "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
            }
          },
```

"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Number of available licenses as a hard limit. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "

}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the license configuration. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the license configuration's owner. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",

"traits": {
"smithy.api#documentation": " Summaries for licenses consumed by various resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},

"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource consuming licenses. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was associated with the resource. "
}
},
"AmiAssociationScope":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an association with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
}
},
"com.amazonaws.licensemanager#LicenseConfigurationStatus": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "AVAILABLE",
"name": "AVAILABLE"
},
{
"value": "DISABLED",
"name": "DISABLED"
}
]
}
},

"com.amazonaws.licensemanager#LicenseConfigurationUsage": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of resource. "
}
},
"ResourceStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Status of the resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was initially associated with the resource. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}

},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},

"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
}
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfiguration"
}
},
"com.amazonaws.licensemanager#LicenseConversionContext": {
"type": "structure",
"members": {
"UsageOperation": {
"target": "com.amazonaws.licensemanager#UsageOperation",
"traits": {
"smithy.api#documentation": " The Usage operation value that corresponds
to the license type you are converting your resource from. For more information about which platforms correspond
to which usage operation values see <a href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-
info-fields.html#billing-info\">Sample data: usage operation by platform\n \n "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTask": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the license type conversion task. "
}
},
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource associated
with the license type\n conversion task. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",

"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted to. "
}
},

"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " The status of the conversion task. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was started at. "
}
},
"LicenseConversionTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " The time the usage operation value of the resource was changed. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was completed. "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}

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    },
    "com.amazonaws.licensemanager#LicenseConversionTaskId": {
      "type": "string",
      "traits": {
        "smithy.api#length": {
          "min": 0,
          "max": 50
        },
        "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
      }
    },
    "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
      "type":
"string",
      "traits": {
        "smithy.api#enum": [
          {
            "value": "IN_PROGRESS",
            "name": "IN_PROGRESS"
          },
          {
            "value": "SUCCEEDED",
            "name": "SUCCEEDED"
          },
          {
            "value": "FAILED",
            "name": "FAILED"
          }
        ]
      }
    },
    "com.amazonaws.licensemanager#LicenseConversionTasks": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#LicenseConversionTask"
      }
    },
    "com.amazonaws.licensemanager#LicenseCountingType": {
      "type": "string",
      "traits": {
        "smithy.api#enum": [
          {
            "value": "vCPU",
            "name": "VCPU"

          },
          {
            "value": "Instance",
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```
            "name": "INSTANCE"
          },
          {
            "value": "Core",
            "name": "CORE"
          },
          {
            "value": "Socket",
            "name": "SOCKET"
          }
        ]
      }
    },
    "com.amazonaws.licensemanager#LicenseDeletionStatus": {
      "type": "string",
      "traits": {
        "smithy.api#enum": [
          {
            "value": "PENDING_DELETE",
            "name": "PENDING_DELETE"
          },
          {
            "value": "DELETED",
            "name": "DELETED"
          }
        ]
      }
    },
    "com.amazonaws.licensemanager#LicenseList": {
      "type": "list",
       "member": {
        "target": "com.amazonaws.licensemanager#License"
      }
    },
    "com.amazonaws.licensemanager#LicenseOperationFailure": {
      "type": "structure",
      "members": {
        "ResourceArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
          }
        },
        "ResourceType": {
          "target": "com.amazonaws.licensemanager#ResourceType",
          "traits": {
            "smithy.api#documentation": "<p>Resource type.</p>"
          }
```

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            },
            "ErrorMessage": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Error message.</p>"

        }
            },
            "FailureTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Failure time.</p>"
                }
            },
            "OperationName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the operation.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the
resource.</p>"
                }
            },
            "OperationRequestedBy": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {

           "smithy.api#documentation": "<p>The requester is \"License Manager Automated Discovery\".</p>"
                }
            },
            "MetadataList": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Reserved.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes the failure of a license operation.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseOperationFailureList": {
        "type": "list",
        "member": {
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"target": "com.amazonaws.licensemanager#LicenseOperationFailure"
}
},
"com.amazonaws.licensemanager#LicenseSpecification": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseSpecification"
}
},
"com.amazonaws.licensemanager#LicenseStatus": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "AVAILABLE",
"name": "AVAILABLE"
},
{
"value": "PENDING_AVAILABLE",
"name": "PENDING_AVAILABLE"
},
{
"value": "DEACTIVATED",
"name": "DEACTIVATED"

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            },
            {
                "value": "SUSPENDED",
                "name": "SUSPENDED"
            },
            {
                "value": "EXPIRED",
                "name": "EXPIRED"
            },
            {
                "value": "PENDING_DELETE",
                "name": "PENDING_DELETE"
            },
            {

             "value": "DELETED",
                "name": "DELETED"
            }
        ]
    }
},
"com.amazonaws.licensemanager#LicenseUsage": {
    "type": "structure",
    "members": {
        "EntitlementUsages": {
            "target": "com.amazonaws.licensemanager#EntitlementUsageList",
            "traits": {
                "smithy.api#documentation": "<p>License entitlement usages.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes the entitlement usage associated with a license.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseUsageException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {

     "aws.protocols#awsQueryError": {
            "code": "LicenseUsageFailure",
            "httpResponseCode": 412
        },
```

"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the resource associations for the specified license configuration. \n Resource associations need not consume licenses from a license configuration. \n For example, an AMI or a stopped instance might not consume a license (depending on \n the license rules). "
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of a license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationAssociations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license configuration. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"

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            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

             "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants distributed for the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
        "type": "structure",
        "members": {
            "GrantArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n
        <code>LicenseArn</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>GrantStatus</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>GranteePrincipalARN</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>ProductSKU</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>LicenseIssuerName</code>\n                </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
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            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
    "type": "structure",
    "members": {
        "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
            "traits": {
                "smithy.api#documentation": "<p>Distributed grant details.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {

"type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
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        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the license configuration operations that failed.</p>"
    }
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
    "type": "structure",
    "members": {
        "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse": {
    "type": "structure",
    "members": {
        "LicenseOperationFailureList": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
            "traits": {
                "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
```

```
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurations":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },

        {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
                }
            },
```

"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>licenseCountingType</code> - The dimension for which licenses are counted.\n Possible values are <code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement is used. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>usagelimitExceeded</code> - A Boolean value that indicates whether the available licenses have been exceeded. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
"type": "structure",
"members": {
"LicenseConfigurations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurations",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "

}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},

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    "com.amazonaws.licensemanager#ListLicenseConversionTasks": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target":
"com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
        "type": "structure",
        "members": {
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                 "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
```

"smithy.api#documentation": " \n Filters to scope the results. Valid filters are <code>ResourceArns</code> and <code>Status</code>.\n "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
"type": "structure",
"members": {
"LicenseConversionTasks": {
"target": "com.amazonaws.licensemanager#LicenseConversionTasks",
"traits": {
"smithy.api#documentation": " Information about the license configuration tasks for your account. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the report generators for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest": {
        "type":
 "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:
</p>\n        <ul>\n            <li>\n                <p>\n                    <code>LicenseConfigurationArn</code>\n
</p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to
 return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
            "ReportGenerators": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorList",
                "traits": {
```

"smithy.api#documentation": " A report generator that creates periodic reports about your license configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
"type": "operation",
"input":
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Describes the license configurations for the specified resource. "
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a resource that has an associated license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {
"LicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " License configurations associated with a resource. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation":
" Lists all versions of the specified license. "
}
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum
number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
"type": "structure",
"members": {

```
        "Licenses": {
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
                "smithy.api#documentation": "<p>License details.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the licenses for your account.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicensesRequest": {
    "type": "structure",
```

"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>Status</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#LicenseList",
"traits": {
"smithy.api#documentation": " License details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}

```
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrants": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },

{
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists grants that are received but not accepted.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
        "type": "structure",

    "members": {
            "GrantArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
                }
            },
```

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranterAccountId</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {

"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Received grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"

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        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"

},
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists received licenses.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
        "type": "structure",

  "members": {
            "LicenseArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>ProductSKU</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                <code>Status</code>\n                </p>\n            </li>\n
```

```
<li>\n <p>\n <code>Fingerprint</code>\n </p>\n </li>\n <li>\n
<p>\n <code>IssuerName</code>\n
</p>\n </li>\n <li>\n <p>\n <code>Beneficiary</code>\n </p>\n
</li>\n </ul>"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": "<p>Token for the next set of results.</p>"
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
}
}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {

"target": "com.amazonaws.licensemanager#GrantedLicenseList",
"traits": {
"smithy.api#documentation": "<p>Received license details.</p>"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": "<p>Token for the next set of results.</p>"
}
}
}
},
"com.amazonaws.licensemanager#ListResourceInventory": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
},
"errors": [
{
```

"target": "com.amazonaws.licensemanager#AccessDeniedException"

},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FailedDependencyException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists resources managed using Systems Manager inventory. "
}
},
"com.amazonaws.licensemanager#ListResourceInventoryRequest": {

"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#InventoryFilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>account_id</code>

- The ID of the Amazon Web Services account that owns the resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>application_name</code> - The name of the application. \n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n \n \n \n <code>license_included</code> - The type of license included. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n Possible values are <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n \n <code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n \n \n \n <code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account). \n \n "
}
}
}
},
"com.amazonaws.licensemanager#ListResourceInventoryResponse": {
"type": "structure",
"members": {
"ResourceInventoryList": {
"target": "com.amazonaws.licensemanager#ResourceInventoryList",
"traits":
{
"smithy.api#documentation": " Information about the resources. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListTagsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"

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            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the tags for the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required":
 {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the tags.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
```

"output": {
"target": "com.amazonaws.licensemanager#ListTokensResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists your tokens. "
}
},
"com.amazonaws.licensemanager#ListTokensRequest": {
"type": "structure",
"members": {
"TokenIds": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " Token IDs. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filter is supported: \n \n \n \n <code>LicenseArns</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}

```
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListTokensResponse":
{
        "type": "structure",
        "members": {
            "Tokens": {
                "target": "com.amazonaws.licensemanager#TokenList",
                "traits": {
                    "smithy.api#documentation": "<p>Received token details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
```

{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists all license usage records for a license configuration, displaying license\n consumption details by resource
at a selected point in time. Use this action to audit the\n current license consumption for any license inventory and configuration. "
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>resourceArn</code> - The ARN of the license configuration resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>).

\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceAccount</code> - The ID of the account that owns the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationUsageList": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#Location": {
"type": "string"
},
"com.amazonaws.licensemanager#Long": {
"type": "long",
"traits": {
"smithy.api#box": {}
}
},
"com.amazonaws.licensemanager#ManagedResourceSummary": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of resource associated with a license. "
}
},
"AssociationCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of resources associated with licenses. "
}

```
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {
    "type": "integer",
    "traits": {
        "smithy.api#box": {},
        "smithy.api#range": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
     },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The key name.</p>"
            }
        },
        "Value": {
            "target": "com.amazonaws.licensemanager#String",
```

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                "traits": {
                    "smithy.api#documentation": "<p>The value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes key/value pairs.</p>"
        }

    },
    "com.amazonaws.licensemanager#MetadataList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Metadata"
        }
    },
    "com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>There are no entitlements found for this license, or the entitlement
maximum count is reached.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#OrganizationConfiguration": {
        "type": "structure",
        "members": {
            "EnableIntegration": {
                "target": "com.amazonaws.licensemanager#Boolean",

        "traits": {
                    "smithy.api#documentation": "<p>Enables Organizations integration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Configuration information for Organizations.</p>"
        }
    },
    "com.amazonaws.licensemanager#PrincipalArnList": {
        "type": "list",
```

"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License

Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n
Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n
\n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n
<code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n \n ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information for a license configuration. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
"type": "structure",
"members": {
"ProductInformationFilterName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Filter name. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterValue": {
"target":
"com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " Filter value. "
}
},
"ProductInformationFilterComparator": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Logical operator. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information filters. "

```
        }
    },
    "com.amazonaws.licensemanager#ProductInformationFilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ProductInformationFilter"
        }
    },
    "com.amazonaws.licensemanager#ProductInformationList": {
        "type": "list",

       "member": {
            "target": "com.amazonaws.licensemanager#ProductInformation"
        }
    },
    "com.amazonaws.licensemanager#ProvisionalConfiguration": {
        "type": "structure",
        "members": {
            "MaxTimeToLiveInMinutes": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#RateLimitExceededException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"

       }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "RateLimitExceeded",
                "httpResponseCode": 429
            },
            "smithy.api#documentation": "<p>Too many requests have been submitted. Try again after a brief
wait.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 429
        }
```

```
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
    "type": "structure",
    "members": {
        "ReceivedStatus": {
            "target": "com.amazonaws.licensemanager#ReceivedStatus",
            "traits": {
                "smithy.api#documentation": "<p>Received status.</p>"
            }
        },
        "ReceivedStatusReason": {
            "target": "com.amazonaws.licensemanager#StatusReasonMessage",
            "traits": {

    "smithy.api#documentation": "<p>Received status reason.</p>"
            }
        },
        "AllowedOperations": {
            "target": "com.amazonaws.licensemanager#AllowedOperationList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed operations.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Metadata associated with received licenses and grants.</p>"
    }
},
"com.amazonaws.licensemanager#ReceivedStatus": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "PENDING_WORKFLOW",
                "name": "PENDING_WORKFLOW"
            },
            {
                "value": "PENDING_ACCEPT",
                "name": "PENDING_ACCEPT"
            },
             {
                "value": "REJECTED",
                "name": "REJECTED"
            },
            {
                "value": "ACTIVE",
                "name": "ACTIVE"
            },
```

```
            {
              "value": "FAILED_WORKFLOW",
              "name": "FAILED_WORKFLOW"
            },
            {
              "value": "DELETED",
              "name": "DELETED"
            },
            {
              "value": "DISABLED",
              "name": "DISABLED"
            },
            {
              "value": "WORKFLOW_COMPLETED",
              "name": "WORKFLOW_COMPLETED"
            }
          ]
        }
      },
      "com.amazonaws.licensemanager#RedirectException": {
        "type": "structure",
        "members": {

"Location": {
            "target": "com.amazonaws.licensemanager#Location",
            "traits": {
              "smithy.api#httpHeader": "Location"
            }
          },
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 308
        }
      },
      "com.amazonaws.licensemanager#RejectGrant": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#RejectGrantRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#RejectGrantResponse"
        },
        "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest":
{
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
```

"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "

}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
}
},
"com.amazonaws.licensemanager#RenewType": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "None",
"name": "NONE"
},
{
"value": "Weekly",
"name": "WEEKLY"
},
{
"value": "Monthly",
"name": "MONTHLY"
}
]
}
},
"com.amazonaws.licensemanager#ReportContext": {
"type": "structure",
"members": {

"licenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"smithy.api#required": {}
}
}
},
"traits": {

"smithy.api#documentation": " Details of the license configuration that this generator reports on. "
}
},
"com.amazonaws.licensemanager#ReportFrequency": {
"type": "structure",
"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "

}
},
"period": {
"target": "com.amazonaws.licensemanager#ReportFrequencyType",
"traits": {
"smithy.api#documentation": " Time period between each report. The period can be daily, weekly, or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"com.amazonaws.licensemanager#ReportFrequencyType": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "DAY",
"name": "DAY"
},
{
"value": "WEEK",
"name": "WEEK"
},
{
"value": "MONTH",

"name": "MONTH"
}
]
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
"type": "structure",

"members": {
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the report generator. "
}
},
"ReportType": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports that are generated. "
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " License configuration type for this generator. "
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. "
}
},
"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}
},
"LastRunFailureReason": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Failure message for the last report generation attempt. "
}
},
"LastReportGenerationTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the last report was generated at. "

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            }
        },
        "ReportCreatorAccount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The Amazon Web Services account ID used to create the report
generator.</p>"
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

        "smithy.api#documentation": "<p>Description of the report generator.</p>"
            }
        },
        "S3Location": {
            "target": "com.amazonaws.licensemanager#S3Location",
            "traits": {
                "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
            }
        },
        "CreateTime": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Time the report was created.</p>"
            }
        },
        "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
                "smithy.api#documentation": "<p>Tags associated with the report generator.</p>"
            }
        }
    },

  "traits": {
        "smithy.api#documentation": "<p>Describe the details of a report generator.</p>"
    }
  },
  "com.amazonaws.licensemanager#ReportGeneratorList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportGenerator"
    }
  },
  "com.amazonaws.licensemanager#ReportGeneratorName": {
```

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    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#ReportType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "LicenseConfigurationSummaryReport",
                "name": "LICENSE_CONFIGURATION_SUMMARY_REPORT"
            },
            {
                "value": "LicenseConfigurationUsageReport",
                 "name": "LICENSE_CONFIGURATION_USAGE_REPORT"
            }
        ]
    }
},
"com.amazonaws.licensemanager#ReportTypeList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportType"
    }
},
"com.amazonaws.licensemanager#ResourceInventory": {
    "type": "structure",
    "members": {
        "ResourceId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>ID of the resource.</p>"
            }
        },
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Type of resource.</p>"
            }
        },
         "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
```

```
            }
        },
        "Platform": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Platform of the resource.</p>"
            }
        },
        "PlatformVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
            }
        },
        "ResourceOwningAccountId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation":
"<p>ID of the account that owns the resource.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about a resource.</p>"
    }
},
"com.amazonaws.licensemanager#ResourceInventoryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ResourceInventory"
    }
},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "ResourceLimitExceeded",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>Your resource limits have
been exceeded.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
```

```
    }
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "InvalidResource.NotFound",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The resource cannot be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "EC2_INSTANCE",
                 "name": "EC2_INSTANCE"
            },
            {
                "value": "EC2_HOST",
                "name": "EC2_HOST"
            },
            {
                "value": "EC2_AMI",
                "name": "EC2_AMI"
            },
            {
                "value": "RDS",
                "name": "RDS"
            },
            {
                "value": "SYSTEMS_MANAGER_MANAGED_INSTANCE",
                "name": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
            }
        ]
    }
},
"com.amazonaws.licensemanager#S3Location": {
    "type": "structure",
```

"members": {
"bucket": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the S3 bucket
reports are published to. "
}
},
"keyPrefix": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Prefix of the S3 bucket reports are published to. "
}
}
},
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published
to. "
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InternalError",
"httpResponseCode": 500
},
"smithy.api#documentation":
" The server experienced an internal error. Try again. ",
"smithy.api#error": "server",
"smithy.api#httpError": 500
}
},
"com.amazonaws.licensemanager#SignedToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 4096
}
}
},
"com.amazonaws.licensemanager#StatusReasonMessage": {
"type": "string",

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        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 400
            },
            "smithy.api#pattern": "^[\\s\\S]+$"
        }
    },
    "com.amazonaws.licensemanager#String": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"

      }
    },
    "com.amazonaws.licensemanager#Tag": {
        "type": "structure",
        "members": {
            "Key": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag key.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#TagList":
{
        "type": "list",
        "member": {
```

"target": "com.amazonaws.licensemanager#Tag"
}
},
"com.amazonaws.licensemanager#TagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#TagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#TagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},

{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Adds the specified tags to the specified license configuration. "
}
},
"com.amazonaws.licensemanager#TagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " One or more tags. ",

"smithy.api#required":
{}
}
}
}
},
"com.amazonaws.licensemanager#TagResourceResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#TokenData": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. "
}
},
"TokenType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"ExpirationTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Token expiration time, in ISO8601-UTC format. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller. "
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the roles included in the

token. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token status. The possible values are
<code>AVAILABLE</code> and <code>DELETED</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a token. "
}
},
"com.amazonaws.licensemanager#TokenList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#TokenData"
}
},
"com.amazonaws.licensemanager#TokenString": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 4096
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#TokenType":
{
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "REFRESH_TOKEN",
"name": "REFRESH_TOKEN"
}
]
}
},
"com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"

```
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The digital signature method is unsupported. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#UntagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UntagResourceRequest"
         },
        "output": {
            "target": "com.amazonaws.licensemanager#UntagResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Removes the specified tags from the specified license
configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#UntagResourceRequest":
 {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
```

```
            "smithy.api#required": {}
          }
        },
        "TagKeys": {
          "target": "com.amazonaws.licensemanager#TagKeyList",
          "traits": {
            "smithy.api#documentation": "<p>Keys identifying the tags to remove.</p>",
            "smithy.api#required": {}
          }
        }
      }
    },
    "com.amazonaws.licensemanager#UntagResourceResponse": {
      "type": "structure",
      "members": {}
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfiguration": {

      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
         }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
      }
```

```
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
      "type": "structure",
      "members": {
        "LicenseConfigurationArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
            "smithy.api#required": {}
          }
        },
        "LicenseConfigurationStatus": {
          "target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
          "traits": {
            "smithy.api#documentation": "<p>New status of the license configuration.</p>"
           }
        },
        "LicenseRules": {
          "target": "com.amazonaws.licensemanager#StringList",
          "traits": {
            "smithy.api#documentation": "<p>New license rule. The only rule that you can add after you create a
license\n        configuration is licenseAffinityToHost.</p>"
          }
        },
        "LicenseCount": {
          "target": "com.amazonaws.licensemanager#BoxLong",
          "traits": {
            "smithy.api#documentation": "<p>New number of licenses managed by the license
configuration.</p>"
          }
        },
        "LicenseCountHardLimit": {
          "target": "com.amazonaws.licensemanager#BoxBoolean",
          "traits": {
            "smithy.api#documentation": "<p>New hard limit of the number of available licenses.</p>"
          }

     },
        "Name": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>New name of the license configuration.</p>"
          }
        },
        "Description": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
```

"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{

"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates a report generator. \n After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated. "

}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to update. ",
"smithy.api#required": {}
}
},
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types are supported: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " The report context. ",

"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidResourceStateException"

        },
            {
                "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p> \n        <p>You can update the license specifications of AMIs, instances, and
hosts.\n        You cannot update the license specifications for launch templates and CloudFormation templates, \n
 as they send license configurations to the operation that creates the resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "AddLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
                }
            },
            "RemoveLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to remove.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
```

"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Updates License Manager settings for the current Region. "
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
"type": "structure",
"members": {
"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon S3 bucket where the License Manager information is stored. "
}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
}

```
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Enables integration with Organizations for cross-account
discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Activates cross-account discovery.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#UsageOperation": {
        "type":
 "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            }
        }
    },
    "com.amazonaws.licensemanager#ValidationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    }
  }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
```

```
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 //
 Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
```

```
 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err
 != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return
 nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
```

```
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string
```

```
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
 err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
```

```
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack);
```

```
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

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import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
```

```
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if
 err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
```

```
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}
```

1.4103 strfmt 0.22.0

1.4103.1 Available under license :

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1.4104 aws-sdk-go-v2-internal-endpoints 2.4.1

1.4104.1 Available under license :

```
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package licensemanager

import (
 "context"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32
```

```
 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
```

```
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
 nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData
```

```
 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err
 = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
```

```
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil
{
 return err
}
return nil
```

```
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
     - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
       with:
```

```
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {
```

```
// License beneficiary.
//
// This member is required.
Beneficiary *string

// Unique, case-sensitive identifier that you provide to ensure
the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string
```

```
 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity *types.DatetimeRange

 //
 Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
  return err
```

```
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}
```

```
func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
```

```
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
```

```
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
 middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "DisassociateLicense",
 }
}
```

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
```

```
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}
```

AWS SDK for Go

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```
{
   "smithy": "1.0",
   "metadata": {
       "suppressions": [
           {
               "id": "HttpMethodSemantics",
               "namespace": "*"
           },
           {
               "id": "HttpResponseCodeSemantics",
               "namespace": "*"
```

```
        },
        {
            "id": "PaginatedTrait",
            "namespace": "*"
        },
        {
            "id": "HttpHeaderTrait",
            "namespace": "*"
        },
        {
            "id": "HttpUriConflict",
            "namespace": "*"
        },
        {
            "id": "Service",
            "namespace": "*"
        }
    ]
},
"shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
        "type": "service",
        "version": "2018-08-01",
        "operations": [
            {
                "target": "com.amazonaws.licensemanager#AcceptGrant"
            },

 {
                "target": "com.amazonaws.licensemanager#CheckInLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CheckoutLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateGrant"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateGrantVersion"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
```

```
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
     },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseVersion"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateToken"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteToken"
    },
    {
      "target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

  },
    {
      "target": "com.amazonaws.licensemanager#GetAccessToken"
    },
    {
      "target": "com.amazonaws.licensemanager#GetGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
    },
    {
```

"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseUsage"
},
{
"target": "com.amazonaws.licensemanager#GetServiceSettings"
},
{
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#ListDistributedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
"target": "com.amazonaws.licensemanager#ListLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

"target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListResourceInventory"
},
{
"target": "com.amazonaws.licensemanager#ListTagsForResource"
},

{
"target": "com.amazonaws.licensemanager#ListTokens"
},
{
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#RejectGrant"
},
{
"target": "com.amazonaws.licensemanager#TagResource"
},
{
"target": "com.amazonaws.licensemanager#UntagResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateServiceSettings"
}
],
"traits": {
"aws.api#service": {
"sdkId": "License Manager",
"arnNamespace": "license-manager",
"cloudFormationName": "LicenseManager",
"cloudTrailEventSource": "licensemanager.amazonaws.com",
"endpointPrefix":
"license-manager"
},
"aws.auth#sigv4": {
"name": "license-manager"
},
"aws.protocols#awsJson1_1": {},
"smithy.api#documentation": " License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers. ",
"smithy.api#title": "AWS License Manager",
"smithy.api#xmlNamespace": {
"uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
}
}

```
    },
    "com.amazonaws.licensemanager#AcceptGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#AcceptGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
        },
        "errors": [
            {

           "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantRequest":
{
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
```

```
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant
status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#AccessDeniedException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ServiceAccessDenied",
                "httpResponseCode": 401
            },
            "smithy.api#documentation": "<p>Access to resource denied.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 401
        }
    },
    "com.amazonaws.licensemanager#AllowedOperation":
{
        "type": "string",
        "traits": {
            "smithy.api#enum": [
```

```
            {
                "value": "CreateGrant",
                "name": "CREATE_GRANT"
            },
            {
                "value": "CheckoutLicense",
                "name": "CHECKOUT_LICENSE"
            },
            {
                "value": "CheckoutBorrowLicense",
                "name": "CHECKOUT_BORROW_LICENSE"
            },
            {
                "value": "CheckInLicense",
                "name": "CHECK_IN_LICENSE"
            },
            {
                "value": "ExtendConsumptionLicense",
                "name": "EXTEND_CONSUMPTION_LICENSE"
            },
            {
                "value": "ListPurchasedLicenses",
                "name": "LIST_PURCHASED_LICENSES"
            },
            {
                "value": "CreateToken",
                "name": "CREATE_TOKEN"
            }
        ]
    }
},
"com.amazonaws.licensemanager#AllowedOperationList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#AllowedOperation"
    },
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 7
        }
    }
},
"com.amazonaws.licensemanager#Arn": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 0,
```

"max": 2048
},
"smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
}
},
"com.amazonaws.licensemanager#ArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
}
},
"com.amazonaws.licensemanager#AuthorizationException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "AuthorizationFailure",
"httpResponseCode": 403
},
"smithy.api#documentation": " The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n policy associated with this account. ",
"smithy.api#error": "client",
"smithy.api#httpError": 403
}
},
"com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
"type": "structure",
"members": {
"LastRunTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time that automated discovery last ran. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes automated discovery. "
}
},
"com.amazonaws.licensemanager#Boolean": {
"type": "boolean"
},

```
"com.amazonaws.licensemanager#BorrowConfiguration": {
    "type": "structure",
    "members": {
        "AllowEarlyCheckIn": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Indicates whether early check-ins are allowed.</p>",
                 "smithy.api#required": {}
            }
        },
        "MaxTimeToLiveInMinutes": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
    }
},
"com.amazonaws.licensemanager#BoxBoolean": {
    "type": "boolean",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#BoxInteger": {
    "type": "integer",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#BoxLong": {

"type": "long",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#CheckInLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
```

```
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
        }
      },
      "com.amazonaws.licensemanager#CheckInLicenseRequest": {
        "type": "structure",
        "members": {
          "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License consumption token.</p>",

        "smithy.api#required": {}
            }
          },
          "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License beneficiary.</p>"
            }
```

```
            }
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },

{
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                 "traits": {
                    "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
                    "smithy.api#required": {}
                }
            },
            "DigitalSignatureMethod": {
                "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
                "traits": {
                    "smithy.api#documentation": "<p>Digital signature method. The possible value is JSON Web
Signature (JWS) algorithm PS384.\n        For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>",
                    "smithy.api#required": {}
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
 "<p>Node ID.</p>"
                }
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
            },
```

"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",

"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " Allowed license entitlements. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"SignedToken": {

"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {

"smithy.api#documentation": " Date and time at which the license checkout is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation":
" Information about constraints. "
}
}
}
},
"com.amazonaws.licensemanager#CheckoutLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"

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            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutLicenseRequest": {
        "type": "structure",
        "members": {
            "ProductSKU":
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "CheckoutType": {
                "target": "com.amazonaws.licensemanager#CheckoutType",
                "traits": {
                    "smithy.api#documentation": "<p>Checkout type.</p>",
                    "smithy.api#required": {}
                }
            },
            "KeyFingerprint": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Key fingerprint identifying the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                 "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",
                    "smithy.api#required": {}
                }
            },
            "ClientToken": {
```

"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Node ID. "
}
}
}
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
"type": "structure",
"members": {
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " Allowed license entitlements. "
}
},
"SignedToken": {
"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "

```
            }
        },
        "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        },
        "IssuedAt": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
            }
        },
        "Expiration": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",

          "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
            }
        },
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CheckoutType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "PROVISIONAL",
                "name": "PROVISIONAL"
            },
            {
                "value": "PERPETUAL",
                "name": "PERPETUAL"
            }
        ]
    }
},
"com.amazonaws.licensemanager#ClientRequestToken":
{
    "type": "string",
    "traits": {
```

"smithy.api#length": {
"min": 1,
"max": 36
}
}
},
"com.amazonaws.licensemanager#ClientToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#ConflictException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ConflictException",
"httpResponseCode": 409
},
"smithy.api#documentation": " There
was a conflict processing the request. Try your request again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 409
}
},
"com.amazonaws.licensemanager#ConsumedLicenseSummary": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Resource type of the resource consuming a license. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}

```
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about license consumption.</p>"
    }
},
"com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
    }
},
"com.amazonaws.licensemanager#ConsumptionConfiguration": {
    "type": "structure",
    "members": {
        "RenewType": {
            "target": "com.amazonaws.licensemanager#RenewType",
            "traits": {
                "smithy.api#documentation": "<p>Renewal frequency.</p>"
            }
        },
        "ProvisionalConfiguration": {
            "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
            }
        },
        "BorrowConfiguration": {

            "target": "com.amazonaws.licensemanager#BorrowConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
    }
},
"com.amazonaws.licensemanager#CreateGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateGrantResponse"
    },
    "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },

        {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of
license entitlements with specific Amazon Web Services accounts.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantRequest": {
        "type": "structure",
        "members": {

  "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseArn": {
```

```
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
        },

    "Principals": {
            "target": "com.amazonaws.licensemanager#PrincipalArnList",
            "traits": {
                "smithy.api#documentation": "<p>The grant principals.</p>",
                "smithy.api#required": {}
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "AllowedOperations": {
            "target": "com.amazonaws.licensemanager#AllowedOperationList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed operations for the grant.</p>",
                "smithy.api#required": {}
            }
        }
    }
  },
  "com.amazonaws.licensemanager#CreateGrantResponse":
{
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    }
  },
  "com.amazonaws.licensemanager#CreateGrantVersion": {
    "type": "operation",
    "input": {

"target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {

          "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a new version of the specified grant.</p>"
    }
  },
  "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
    "type": "structure",
    "members": {
        "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientToken",
```

"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",

"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the grant. "
}
}
}
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
"type": "structure",

```
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant
status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>New version of the grant.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#CreateLicense": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
           },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#RedirectException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license configuration.</p> \n        <p>A license configuration is an abstraction of a customer license
 agreement that can be\n        consumed and enforced by License Manager. Components include specifications for the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), license affinity  to host (how long a \n        license must be associated with a host), and the number of licenses purchased and used.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
        "type": "structure",
```

"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension used to track the license inventory. ",
"smithy.api#required": {}
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {

"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows. \n \n \n \n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n <code>licenseAffinityToHost</code> |\n <code>maximumCores</code> | <code>minimumCores</code>\n \n \n \n \n <code>Instances</code> dimension: <code>allowedTenancy</code> | \n <code>maximumCores</code> | <code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n \n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n <code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> |

```
<code>minimumSockets</code>\n            </p>\n          </li>\n          <li>\n            <p>\n
<code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n
<code>honorVcpuOptimization</code> | \n            <code>maximumVcpus</code> |
<code>minimumVcpus</code>\n            </p>\n          </li>\n        </ul>\n        <p>The unit for
<code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n        values for
<code>allowedTenancy</code> are <code>EC2-Default</code>,
 <code>EC2-DedicatedHost</code>, and \n        <code>EC2-DedicatedInstance</code>. The possible values for
<code>honorVcpuOptimization</code> are \n        <code>True</code> and <code>False</code>.</p>"
            }
          },
          "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
              "smithy.api#documentation": "<p>Tags to add to the license configuration.</p>"
            }
          },
          "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
          },
          "ProductInformationList": {
            "target": "com.amazonaws.licensemanager#ProductInformationList",
            "traits":
 {
              "smithy.api#documentation": "<p>Product information.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
          "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
        },
```

"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a new license conversion task. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest":
{
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource you are converting the license type for. ",
"smithy.api#required": {}
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting from. \n For the structure of the source license, see Convert a license type using the AWS CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}

```
            },
            "DestinationLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting to.
For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the AWS
CLI</a> in the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                 "traits": {
                    "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "ReportGeneratorName": {
                "target":
 "com.amazonaws.licensemanager#ReportGeneratorName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>",
                    "smithy.api#required": {}
                }
            },
            "Type": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports to generate. The following report types an be
generated:</p>\n        <ul>\n            <li>\n                <p>License configuration report - Reports the number and
details of consumed licenses for a license configuration.</p>\n            </li>\n            <li>\n                <p>Resource
report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n            </li>\n
</ul>",
                    "smithy.api#required": {}
                }
            },

        "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
                    "smithy.api#documentation": "<p>Defines the type of license configuration the report generator
tracks.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportFrequency": {
                "target": "com.amazonaws.licensemanager#ReportFrequency",
                "traits": {
```

"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the new report generator. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseRequest": {
"type": "structure",
"members": {
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}

```
            }
        },
        "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product name.</p>",
                "smithy.api#required": {}
            }
        },
        "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
                "smithy.api#documentation": "<p>Product SKU.</p>",
                "smithy.api#required": {}
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#Issuer",
            "traits": {
                "smithy.api#documentation": "<p>License issuer.</p>",
                "smithy.api#required": {}
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region for the license.</p>",
                "smithy.api#required": {}
            }
        },
        "Validity": {
            "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {
                "smithy.api#documentation":
"<p>Date and time range during which the license is valid, in ISO8601-UTC format.</p>",
                "smithy.api#required": {}
            }
        },
        "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
            "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>",
                "smithy.api#required": {}
            }
        },
        "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {

"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}

}
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",

```
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersion":
{
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
         },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
    "type": "structure",
    "members": {
```

"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits": {
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation":
" Home Region of the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "

```
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",
                     "smithy.api#required": {}
                }
            },
            "ConsumptionConfiguration": {
                "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional configuration for workloads\n         running with continuous connectivity. Choose a borrow configuration for workloads with offline\n         usage.</p>",
                    "smithy.api#required": {}
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>",
                    "smithy.api#required": {}
                }
            },
            "ClientToken": {
                "target":
 "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
```

"smithy.api#documentation": " License ARN. "
}
},

"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New version of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
}
}
},
"com.amazonaws.licensemanager#CreateToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a long-lived token.</p>\n        <p>A refresh token is a JWT
 token used to get an access token. With an access token,\n          you can call AssumeRoleWithWebIdentity to get
role credentials that you can use to \n          call License Manager to manage the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateTokenRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The ARN is
mapped to the aud claim of the\n          JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "RoleArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the IAM roles to embed
 in the token. \n        License Manager does not check whether the roles are in use.</p>"
                }
            },
            "ExpirationInDays": {
                "target": "com.amazonaws.licensemanager#Integer",
                "traits": {
                    "smithy.api#documentation": "<p>Token expiration, in days, counted from token creation. The
default is 365 days.</p>"
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Data specified by the caller to be included in the JWT token. The
data is mapped\n          to the amr claim of the JWT token.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation":
```

" Idempotency token, valid for 10 minutes. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CreateTokenResponse": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. "
}
},
"TokenType": {
"target": "com.amazonaws.licensemanager#TokenType",
"traits": {
"smithy.api#documentation": " Token type. "
}
},
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token,
encoded as a JWT token. "
}
}
}
},
"com.amazonaws.licensemanager#DateTime": {
"type": "timestamp"
},
"com.amazonaws.licensemanager#DatetimeRange": {
"type": "structure",
"members": {
"Begin": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Start of the time range. ",
"smithy.api#required": {}
}
},
"End": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " End of the time range. "
}

```
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC
format.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

        },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
```

"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {

"smithy.api#documentation": " The Status reason for the delete request. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the grant. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#DeleteGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation":
" Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
}
},
"com.amazonaws.licensemanager#DeleteLicense": {
"type": "operation",
"input": {

"target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license configuration. \n You cannot delete a license configuration
that is in use. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the license configuration. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

        "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified report generator.</p>\n        <p>This action
deletes the report generator, which stops it from generating future reports.\n        The action cannot be reversed. It
has no effect on the previous reports from this generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to be
deleted.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },

  "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#DeleteLicenseRequest": {
        "type": "structure",
        "members": {
```

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            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseResponse":
{
        "type": "structure",
        "members": {
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>"
                }
            },
            "DeletionDate": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date when the license is deleted.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#DeleteToken": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
        },
        "errors": [
            {

      "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
```

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified token. Must be called in the license home Region. "
}

},
"com.amazonaws.licensemanager#DeleteTokenRequest": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#DeleteTokenResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#DigitalSignatureMethod": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "JWT_PS384",
"name": "JWT_PS384"
}

```
        ]
      }
    },
    "com.amazonaws.licensemanager#Entitlement": {
      "type": "structure",

  "members": {
        "Name": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Entitlement name.</p>",
            "smithy.api#required": {}
          }
        },
        "Value": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Entitlement resource. Use only if the unit is None.</p>"
          }
        },
        "MaxCount": {
          "target": "com.amazonaws.licensemanager#Long",
          "traits": {
            "smithy.api#documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
          }
        },
        "Overage": {
          "target": "com.amazonaws.licensemanager#BoxBoolean",

    "traits": {
            "smithy.api#documentation": "<p>Indicates whether overages are allowed.</p>"
          }
        },
        "Unit": {
          "target": "com.amazonaws.licensemanager#EntitlementUnit",
          "traits": {
            "smithy.api#documentation": "<p>Entitlement unit.</p>",
            "smithy.api#required": {}
          }
        },
        "AllowCheckIn": {
          "target": "com.amazonaws.licensemanager#BoxBoolean",
          "traits": {
            "smithy.api#documentation": "<p>Indicates whether check-ins are allowed.</p>"
          }
        }
      },
      "traits": {
```

```
            "smithy.api#documentation": "<p>Describes a resource entitled for use with a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementData": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement data name.</p>",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement data value.</p>"
                }
            },
            "Unit": {
                "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement data unit.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Data associated
with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementDataList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementData"
        }
    },
    "com.amazonaws.licensemanager#EntitlementDataUnit": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "Count",
                    "name": "COUNT"
                },
                {
                    "value": "None",
```

"name": "NONE"
},
{
"value": "Seconds",
"name": "SECONDS"
},
{
"value": "Microseconds",
"name": "MICROSECONDS"
},
{

"value": "Milliseconds",
"name": "MILLISECONDS"
},
{
"value": "Bytes",
"name": "BYTES"
},
{
"value": "Kilobytes",
"name": "KILOBYTES"
},
{
"value": "Megabytes",
"name": "MEGABYTES"
},
{
"value": "Gigabytes",
"name": "GIGABYTES"
},
{
"value": "Terabytes",
"name": "TERABYTES"
},
{
"value": "Bits",
"name": "BITS"
},
{
"value": "Kilobits",
"name": "KILOBITS"
},
{
"value": "Megabits",
"name": "MEGABITS"
},
{

"value": "Gigabits",
"name": "GIGABITS"
},
{
"value": "Terabits",
"name": "TERABITS"
},
{
"value": "Percent",
"name": "PERCENT"
},
{
"value": "Bytes/Second",
"name": "BYTES_PER_SECOND"
},
{
"value": "Kilobytes/Second",
"name": "KILOBYTES_PER_SECOND"
},
{
"value": "Megabytes/Second",
"name": "MEGABYTES_PER_SECOND"

},
{
"value": "Gigabytes/Second",
"name": "GIGABYTES_PER_SECOND"
},
{
"value": "Terabytes/Second",
"name": "TERABYTES_PER_SECOND"
},
{
"value": "Bits/Second",
"name": "BITS_PER_SECOND"
},
{
"value": "Kilobits/Second",
"name": "KILOBITS_PER_SECOND"
},
{
"value": "Megabits/Second",
"name": "MEGABITS_PER_SECOND"
},
{
"value": "Gigabits/Second",
"name": "GIGABITS_PER_SECOND"
},

{
"value": "Terabits/Second",

"name": "TERABITS_PER_SECOND"
},
{
"value": "Count/Second",
"name": "COUNT_PER_SECOND"
}
]
}
},
"com.amazonaws.licensemanager#EntitlementList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Entitlement"
}
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The entitlement is not allowed. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#EntitlementUnit": {

"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "Count",
"name": "COUNT"
},
{
"value": "None",
"name": "NONE"
},
{
"value": "Seconds",
"name": "SECONDS"
},

```
        {
          "value": "Microseconds",
          "name": "MICROSECONDS"
        },
        {
          "value": "Milliseconds",
          "name": "MILLISECONDS"
        },
        {
          "value": "Bytes",
          "name": "BYTES"
        },
        {
          "value": "Kilobytes",
          "name": "KILOBYTES"

    },
        {
          "value": "Megabytes",
          "name": "MEGABYTES"
        },
        {
          "value": "Gigabytes",
          "name": "GIGABYTES"
        },
        {
          "value": "Terabytes",
          "name": "TERABYTES"
        },
        {
          "value": "Bits",
          "name": "BITS"
        },
        {
          "value": "Kilobits",
          "name": "KILOBITS"
        },
        {
          "value": "Megabits",
          "name": "MEGABITS"
        },
        {
          "value": "Gigabits",
          "name": "GIGABITS"
        },
        {
          "value": "Terabits",
```

"name": "TERABITS"
},
{
"value": "Percent",
"name": "PERCENT"
},
{
"value": "Bytes/Second",
"name": "BYTES_PER_SECOND"
},
{
"value": "Kilobytes/Second",
"name": "KILOBYTES_PER_SECOND"
},
{
"value": "Megabytes/Second",
"name": "MEGABYTES_PER_SECOND"
},
{
"value": "Gigabytes/Second",
"name": "GIGABYTES_PER_SECOND"
},
{
"value": "Terabytes/Second",
"name": "TERABYTES_PER_SECOND"
},
{

"value": "Bits/Second",
"name": "BITS_PER_SECOND"
},
{
"value": "Kilobits/Second",
"name": "KILOBITS_PER_SECOND"
},
{
"value": "Megabits/Second",
"name": "MEGABITS_PER_SECOND"
},
{
"value": "Gigabits/Second",
"name": "GIGABITS_PER_SECOND"
},
{
"value": "Terabits/Second",
"name": "TERABITS_PER_SECOND"
},
{

```
                "value": "Count/Second",
                "name": "COUNT_PER_SECOND"
            }
        ]
    }
},
"com.amazonaws.licensemanager#EntitlementUsage": {
    "type": "structure",

"members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                "smithy.api#required": {}
            }
        },
        "ConsumedValue": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxCount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
             "traits": {
                "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
    }
},
"com.amazonaws.licensemanager#EntitlementUsageList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#EntitlementUsage"
    }
},
```

"com.amazonaws.licensemanager#ExtendLicenseConsumption": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Extends the expiration date for license consumption. "
}
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",
"smithy.api#required": {}
}
},
"DryRun": {
"target": "com.amazonaws.licensemanager#Boolean",

"traits": {
"smithy.api#documentation": " Checks whether you have the required permissions for the action, without actually making the request. Provides an error response if you do not have the required permissions. "
}
}
}
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
"type": "structure",

"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license consumption expires. "
}
}
}
},
"com.amazonaws.licensemanager#FailedDependencyException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
},
"ErrorCode": {
"target": "com.amazonaws.licensemanager#String"
}
},

"traits": {
"aws.protocols#awsQueryError": {
"code": "FailedDependency",
"httpResponseCode": 424
},
"smithy.api#documentation": " A dependency required to run the API is missing. ",
"smithy.api#error": "client",
"smithy.api#httpError": 424
}
},
"com.amazonaws.licensemanager#Filter": {
"type": "structure",

"members": {
"Name": {
"target": "com.amazonaws.licensemanager#FilterName",
"traits": {
"smithy.api#documentation": " Name of the filter. Filter names are case-sensitive. "
}
},
"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " Filter values. Filter values are case-sensitive. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter name and value pair that is used to return more specific results from a\n describe operation. Filters can be used to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FilterLimitExceeded",
"httpResponseCode": 400
},
"smithy.api#documentation": " The request uses too many filters or too many filter values. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter"
}
},
"com.amazonaws.licensemanager#FilterName": {
"type": "string"
},

"com.amazonaws.licensemanager#FilterValue": {
"type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#FilterValue",
"traits": {
"smithy.api#xmlName": "item"
}
}
},
"com.amazonaws.licensemanager#Filters": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter",
"traits": {
"smithy.api#xmlName":
"item"
}
}
},
"com.amazonaws.licensemanager#GetAccessToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"

}
],

"traits": {
"smithy.api#documentation": " Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access tokens\n are valid for one hour. "
}
},
"com.amazonaws.licensemanager#GetAccessTokenRequest": {
"type": "structure",
"members": {
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token, encoded as a JWT token. ",
"smithy.api#required": {}
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Token properties to validate against those present in the JWT token. "
}

}
}
},
"com.amazonaws.licensemanager#GetAccessTokenResponse": {
"type": "structure",
"members": {
"AccessToken": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Temporary access token. "
}
}
}
},
"com.amazonaws.licensemanager#GetGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

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            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetGrantResponse": {
        "type": "structure",
        "members": {
            "Grant": {
                "target": "com.amazonaws.licensemanager#Grant",
                "traits": {
                    "smithy.api#documentation": "<p>Grant details.</p>"
```

```
            }
        }
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",

    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
     "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license
configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId":
 {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            },
```

"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation":
" Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension for which the licenses are counted. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of available licenses. "
}
},
"LicenseCountHardLimit": {

"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Sets the number of available licenses as a hard limit. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses assigned to resources. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License configuration status. "

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            }
        },
        "OwnerAccountId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Account ID of the
owner of the license configuration.</p>"
            }
        },
        "ConsumedLicenseSummaryList": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Summaries of the licenses consumed by resources.</p>"
            }
        },
        "ManagedResourceSummaryList": {
            "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Summaries of the managed resources.</p>"
            }
        },
        "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
                "smithy.api#documentation": "<p>Tags for the license configuration.</p>"
            }
        },
        "ProductInformationList":
{
            "target": "com.amazonaws.licensemanager#ProductInformationList",
            "traits": {
                "smithy.api#documentation": "<p>Product information.</p>"
            }
        },
        "AutomatedDiscoveryInformation": {
            "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
            "traits": {
                "smithy.api#documentation": "<p>Automated discovery information.</p>"
            }
        },
        "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
        }
    }
```

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    },
    "com.amazonaws.licensemanager#GetLicenseConversionTask": {
      "type":
 "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Gets
 information about the specified license type conversion task.</p>"
      }
    },
    "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
      "type": "structure",
      "members": {
        "LicenseConversionTaskId": {
          "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
          "traits": {
            "smithy.api#documentation": "<p>ID of the license type conversion task to retrieve information
on.</p>",
            "smithy.api#required": {}
          }
        }
      }
    },
    "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
      "type": "structure",
      "members": {
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"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license
type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license
conversion task is associated with. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted to. "

}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " Status of the license type conversion task. "
}
},
"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was started . "
}
},
"LicenseConversionTime": {
"target": "com.amazonaws.licensemanager#DateTime",

"traits": {
"smithy.api#documentation": " Amount of time to complete the license type conversion. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was completed. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {

"smithy.api#documentation":
" Gets information about the specified report generator. "
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"ReportGenerator": {
"target": "com.amazonaws.licensemanager#ReportGenerator",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic
reports about your license configurations. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseResponse": {
"type": "structure",

"members": {
"License": {
"target":
"com.amazonaws.licensemanager#License",
"traits": {
"smithy.api#documentation": " License details. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseUsage": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the usage of the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseUsageRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseUsageResponse":
{
"type": "structure",
"members": {
"LicenseUsage": {
"target": "com.amazonaws.licensemanager#LicenseUsage",
"traits": {
"smithy.api#documentation": " License usage details. "
}
}
}
},
"com.amazonaws.licensemanager#GetServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets the License Manager settings for the current Region. "
}
},
"com.amazonaws.licensemanager#GetServiceSettingsRequest": {
"type": "structure",
"members": {}

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    },
    "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
discovery data,\n        and so on.</p>"
                }

            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>SNS topic configured to receive notifications from License
Manager.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether Organizations is integrated with License
Manager for\n        cross-account discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether cross-account discovery is enabled.</p>"
                }

   },
            "LicenseManagerResourceShareArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
Manager management account \n        provides member accounts with access to this share.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#Grant": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
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"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"ParentArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Parent ARN. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. ",
"smithy.api#required": {}
}
},
"GranteePrincipalArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " The grantee principal ARN. ",

"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},

"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"Version": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. ",
"smithy.api#required": {}
}
},
"GrantedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Granted operations. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes a grant. "
}
},
"com.amazonaws.licensemanager#GrantList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Grant"
}
},
"com.amazonaws.licensemanager#GrantStatus": {
"type": "string",

"traits": {
"smithy.api#enum": [
{
"value": "PENDING_WORKFLOW",
"name": "PENDING_WORKFLOW"
},
{
"value": "PENDING_ACCEPT",
"name": "PENDING_ACCEPT"
},
{
"value": "REJECTED",
"name": "REJECTED"

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            },
            {
                "value": "ACTIVE",
                "name": "ACTIVE"
            },
            {
                "value": "FAILED_WORKFLOW",
                "name": "FAILED_WORKFLOW"
            },
            {
                "value": "DELETED",
                "name": "DELETED"
            },
            {
                "value": "PENDING_DELETE",
                "name": "PENDING_DELETE"
             },
            {
                "value": "DISABLED",
                "name": "DISABLED"
            },
            {
                "value": "WORKFLOW_COMPLETED",
                "name": "WORKFLOW_COMPLETED"
            }
        ]
    }
},
"com.amazonaws.licensemanager#GrantedLicense": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License name.</p>"
            }

},
        "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product name.</p>"
```

```
            }
        },
        "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product SKU.</p>"
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>Granted license issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the granted license.</p>"

        }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>Granted license status.</p>"
            }
        },
        "Validity": {
            "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {
                "smithy.api#documentation": "<p>Date and time range during which the granted license is valid, in
ISO8601-UTC format.</p>"
            }
        },
        "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Granted license beneficiary.</p>"
            }
        },
        "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
             "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>"
            }
        },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
```

"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Granted license metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Creation time of the granted license. "

}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Version of the granted license. "
}
},
"ReceivedMetadata": {
"target": "com.amazonaws.licensemanager#ReceivedMetadata",
"traits": {
"smithy.api#documentation": " Granted license received metadata. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a license that is granted to a grantee. "
}
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#GrantedLicense"
}
},
"com.amazonaws.licensemanager#ISO8601DateTime":
{
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},

"smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
}
},
"com.amazonaws.licensemanager#Integer": {
"type": "integer",
"traits": {
"smithy.api#box": {}
}
},
"com.amazonaws.licensemanager#InvalidParameterValueException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidParameterValueProvided",

"httpResponseCode": 400
},
"smithy.api#documentation": " One or more parameter values are not valid. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#InvalidResourceStateException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidResourceState",
"httpResponseCode": 400
},
"smithy.api#documentation": " License Manager cannot allocate a license to a resource because of its state. \n For example, you cannot allocate a license to an instance in the process of shutting\n down. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#InventoryFilter": {

"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the filter. ",
"smithy.api#required": {}
}
},
"Condition": {
"target": "com.amazonaws.licensemanager#InventoryFilterCondition",
"traits": {
"smithy.api#documentation": " Condition of the filter. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Value
of the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " An inventory filter. "
}
},
"com.amazonaws.licensemanager#InventoryFilterCondition": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "EQUALS",
"name": "EQUALS"
},
{
"value": "NOT_EQUALS",
"name": "NOT_EQUALS"
},
{
"value": "BEGINS_WITH",
"name": "BEGINS_WITH"
},
{
"value": "CONTAINS",
"name": "CONTAINS"
}

```
            ]
        }
    },
    "com.amazonaws.licensemanager#InventoryFilterList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#InventoryFilter"
        }
    },
    "com.amazonaws.licensemanager#Issuer": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>",
                    "smithy.api#required": {}
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS
key must have a key usage of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing
algorithm.</p>"
                }
            }
        },
        "traits": {

        "smithy.api#documentation": "<p>Details about the issuer of a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#IssuerDetails": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>"
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS
key must have a key usage of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing
```

algorithm. "
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer key fingerprint. "
}
}
},
"traits": {
"smithy.api#documentation": " Details associated with the issuer of a license. "
}
},
"com.amazonaws.licensemanager#License": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. "
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " License issuer. "
}
},
"HomeRegion": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "

}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " License metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License creation time. "
}

```
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits":
{
                    "smithy.api#documentation": "<p>License version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfiguration": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }

        },
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>"
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the license configuration.</p>"
                }
            },
            "LicenseCountingType": {
                "target": "com.amazonaws.licensemanager#LicenseCountingType",
                "traits": {
                    "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
                }
            },
            "LicenseRules": {
```

"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Number of available licenses as a hard limit. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "

}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the license configuration. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the license configuration's owner. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",

"traits": {
"smithy.api#documentation": " Summaries for licenses consumed by various resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},

"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource consuming licenses. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was associated with the resource. "
}
},
"AmiAssociationScope":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an association with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
}
},
"com.amazonaws.licensemanager#LicenseConfigurationStatus": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "AVAILABLE",
"name": "AVAILABLE"
},
{
"value": "DISABLED",
"name": "DISABLED"
}
]
}
},

"com.amazonaws.licensemanager#LicenseConfigurationUsage": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of resource. "
}
},
"ResourceStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Status of the resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was initially associated with the resource. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}

},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},

"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
}
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfiguration"
}
},
"com.amazonaws.licensemanager#LicenseConversionContext": {
"type": "structure",
"members": {
"UsageOperation": {
"target": "com.amazonaws.licensemanager#UsageOperation",
"traits": {
"smithy.api#documentation": " The Usage operation value that corresponds
to the license type you are converting your resource from. For more information about which platforms correspond
to which usage operation values see <a href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-
info-fields.html#billing-info\">Sample data: usage operation by platform\n \n "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTask": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the license type conversion task. "
}
},
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource associated
with the license type\n conversion task. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",

"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted to. "
}
},

"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " The status of the conversion task. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was started at. "
}
},
"LicenseConversionTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " The time the usage operation value of the resource was changed. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was completed. "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}

```
    },
    "com.amazonaws.licensemanager#LicenseConversionTaskId": {
      "type": "string",
      "traits": {
        "smithy.api#length": {
          "min": 0,
          "max": 50
        },
        "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
      }
    },
    "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
      "type":
"string",
      "traits": {
        "smithy.api#enum": [
          {
            "value": "IN_PROGRESS",
            "name": "IN_PROGRESS"
          },
          {
            "value": "SUCCEEDED",
            "name": "SUCCEEDED"
          },
          {
            "value": "FAILED",
            "name": "FAILED"
          }
        ]
      }
    },
    "com.amazonaws.licensemanager#LicenseConversionTasks": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#LicenseConversionTask"
      }
    },
    "com.amazonaws.licensemanager#LicenseCountingType": {
      "type": "string",
      "traits": {
        "smithy.api#enum": [
          {
            "value": "vCPU",
            "name": "VCPU"

          },
          {
            "value": "Instance",
```

```
            "name": "INSTANCE"
          },
          {
            "value": "Core",
            "name": "CORE"
          },
          {
            "value": "Socket",
            "name": "SOCKET"
          }
        ]
      }
    },
    "com.amazonaws.licensemanager#LicenseDeletionStatus": {
      "type": "string",
      "traits": {
        "smithy.api#enum": [
          {
            "value": "PENDING_DELETE",
            "name": "PENDING_DELETE"
          },
          {
            "value": "DELETED",
            "name": "DELETED"
          }
        ]
      }
    },
    "com.amazonaws.licensemanager#LicenseList": {
      "type": "list",
       "member": {
        "target": "com.amazonaws.licensemanager#License"
      }
    },
    "com.amazonaws.licensemanager#LicenseOperationFailure": {
      "type": "structure",
      "members": {
        "ResourceArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
          }
        },
        "ResourceType": {
          "target": "com.amazonaws.licensemanager#ResourceType",
          "traits": {
            "smithy.api#documentation": "<p>Resource type.</p>"
          }
```

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            },
            "ErrorMessage": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Error message.</p>"

        }
            },
            "FailureTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Failure time.</p>"
                }
            },
            "OperationName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the operation.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the
resource.</p>"
                }
            },
            "OperationRequestedBy": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {

            "smithy.api#documentation": "<p>The requester is \"License Manager Automated Discovery\".</p>"
                }
            },
            "MetadataList": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Reserved.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes the failure of a license operation.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseOperationFailureList": {
        "type": "list",
        "member": {
```

"target": "com.amazonaws.licensemanager#LicenseOperationFailure"
}
},
"com.amazonaws.licensemanager#LicenseSpecification": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseSpecification"
}
},
"com.amazonaws.licensemanager#LicenseStatus": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "AVAILABLE",
"name": "AVAILABLE"
},
{
"value": "PENDING_AVAILABLE",
"name": "PENDING_AVAILABLE"
},
{
"value": "DEACTIVATED",
"name": "DEACTIVATED"

```
            },
            {
                "value": "SUSPENDED",
                "name": "SUSPENDED"
            },
            {
                "value": "EXPIRED",
                "name": "EXPIRED"
            },
            {
                "value": "PENDING_DELETE",
                "name": "PENDING_DELETE"
            },
            {

             "value": "DELETED",
                "name": "DELETED"
            }
        ]
    }
},
"com.amazonaws.licensemanager#LicenseUsage": {
    "type": "structure",
    "members": {
        "EntitlementUsages": {
            "target": "com.amazonaws.licensemanager#EntitlementUsageList",
            "traits": {
                "smithy.api#documentation": "<p>License entitlement usages.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes the entitlement usage associated with a license.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseUsageException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {

     "aws.protocols#awsQueryError": {
            "code": "LicenseUsageFailure",
            "httpResponseCode": 412
        },
```

"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the resource associations for the specified license configuration. \n Resource associations need not consume licenses from a license configuration. \n For example, an AMI or a stopped instance might not consume a license (depending on \n the license rules). "
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of a license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationAssociations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license configuration. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

             "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants distributed for the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
        "type": "structure",
        "members": {
            "GrantArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n
        <code>LicenseArn</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>GrantStatus</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>GranteePrincipalARN</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>ProductSKU</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>LicenseIssuerName</code>\n                </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
    "type": "structure",
    "members": {
        "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
            "traits": {
                "smithy.api#documentation": "<p>Distributed grant details.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {

"type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
```

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        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the license configuration operations that failed.</p>"
    }
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
    "type": "structure",
    "members": {
        "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse": {
    "type": "structure",
    "members": {
        "LicenseOperationFailureList": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
            "traits": {
                "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
```

```
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurations":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },

        {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
                }
            },
```

"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>licenseCountingType</code> - The dimension for which licenses are counted.\n Possible values are <code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement is used. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>usagelimitExceeded</code> - A Boolean value that indicates whether the available licenses have been exceeded. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
"type": "structure",
"members": {
"LicenseConfigurations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurations",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "

}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},

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    "com.amazonaws.licensemanager#ListLicenseConversionTasks": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target":
"com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
        "type": "structure",
        "members": {
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                 "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
```

"smithy.api#documentation": " \n Filters to scope the results. Valid filters are <code>ResourceArns</code> and <code>Status</code>.\n "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
"type": "structure",
"members": {
"LicenseConversionTasks": {
"target": "com.amazonaws.licensemanager#LicenseConversionTasks",
"traits": {
"smithy.api#documentation": " Information about the license configuration tasks for your account. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the report generators for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest": {
        "type":
 "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:
</p>\n        <ul>\n            <li>\n                <p>\n                <code>LicenseConfigurationArn</code>\n
</p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to
 return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
            "ReportGenerators": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorList",
                "traits": {
```

"smithy.api#documentation": " A report generator that creates periodic reports about your license configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
"type": "operation",
"input":
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Describes the license configurations for the specified resource. "
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a resource that has an associated license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {
"LicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " License configurations associated with a resource. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation":
" Lists all versions of the specified license. "
}
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum
number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
"type": "structure",
"members": {

```
        "Licenses": {
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
                "smithy.api#documentation": "<p>License details.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the licenses for your account.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicensesRequest": {
    "type": "structure",
```

"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>Status</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#LicenseList",
"traits": {
"smithy.api#documentation": " License details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}

```
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrants": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },

{
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists grants that are received but not accepted.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
        "type": "structure",

    "members": {
            "GrantArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
                }
            },
```

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranterAccountId</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {

"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Received grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"

},
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists received licenses.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
        "type": "structure",

  "members": {
            "LicenseArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>ProductSKU</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                <code>Status</code>\n                </p>\n            </li>\n
```

```
<li>\n <p>\n <code>Fingerprint</code>\n </p>\n </li>\n <li>\n
<p>\n <code>IssuerName</code>\n
</p>\n </li>\n <li>\n <p>\n <code>Beneficiary</code>\n </p>\n
</li>\n </ul>"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": "<p>Token for the next set of results.</p>"
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
}
}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {

"target": "com.amazonaws.licensemanager#GrantedLicenseList",
"traits": {
"smithy.api#documentation": "<p>Received license details.</p>"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": "<p>Token for the next set of results.</p>"
}
}
}
},
"com.amazonaws.licensemanager#ListResourceInventory": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
},
"errors": [
{
```

"target": "com.amazonaws.licensemanager#AccessDeniedException"

},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FailedDependencyException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists resources managed using Systems Manager inventory. "
}
},
"com.amazonaws.licensemanager#ListResourceInventoryRequest": {

"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#InventoryFilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>account_id</code>

- The ID of the Amazon Web Services account that owns the resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>application_name</code> - The name of the application. \n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n \n \n \n <code>license_included</code> - The type of license included. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n Possible values are <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n \n <code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n \n \n \n <code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account). \n \n "
}
}
}
},
"com.amazonaws.licensemanager#ListResourceInventoryResponse": {
"type": "structure",
"members": {
"ResourceInventoryList": {
"target": "com.amazonaws.licensemanager#ResourceInventoryList",
"traits":
{
"smithy.api#documentation": " Information about the resources. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListTagsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the tags for the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required":
 {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the tags.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
```

"output": {
"target": "com.amazonaws.licensemanager#ListTokensResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target":
"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists your tokens. "
}
},
"com.amazonaws.licensemanager#ListTokensRequest": {
"type": "structure",
"members": {
"TokenIds": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " Token IDs. "
}
},
"Filters": {
"target":
"com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filter is supported: \n
\n \n \n <code>LicenseArns</code>\n \n \n
"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}

```
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListTokensResponse":
{
        "type": "structure",
        "members": {
            "Tokens": {
                "target": "com.amazonaws.licensemanager#TokenList",
                "traits": {
                    "smithy.api#documentation": "<p>Received token details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
```

{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists all license usage records for a license configuration, displaying license\n consumption details by resource
at a selected point in time. Use this action to audit the\n current license consumption for any license inventory and configuration. "
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>resourceArn</code> - The ARN of the license configuration resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>).

\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceAccount</code> - The ID of the account that owns the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationUsageList": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#Location": {
"type": "string"
},
"com.amazonaws.licensemanager#Long": {
"type": "long",
"traits": {
"smithy.api#box": {}
}
},
"com.amazonaws.licensemanager#ManagedResourceSummary": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of resource associated with a license. "
}
},
"AssociationCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of resources associated with licenses. "
}

```
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {
    "type": "integer",
    "traits": {
        "smithy.api#box": {},
        "smithy.api#range": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
     },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The key name.</p>"
            }
        },
        "Value": {
            "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " The value. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes key/value pairs. "
}

},
"com.amazonaws.licensemanager#MetadataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Metadata"
}
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#OrganizationConfiguration": {
"type": "structure",
"members": {
"EnableIntegration": {
"target": "com.amazonaws.licensemanager#Boolean",

"traits": {
"smithy.api#documentation": " Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",

"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License

Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n
Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n
\n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n
<code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n \n ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information for a license configuration. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
"type": "structure",
"members": {
"ProductInformationFilterName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Filter name. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterValue": {
"target":
"com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " Filter value. "
}
},
"ProductInformationFilterComparator": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Logical operator. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information filters. "

```
        }
    },
    "com.amazonaws.licensemanager#ProductInformationFilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ProductInformationFilter"
        }
    },
    "com.amazonaws.licensemanager#ProductInformationList": {
        "type": "list",

       "member": {
            "target": "com.amazonaws.licensemanager#ProductInformation"
        }
    },
    "com.amazonaws.licensemanager#ProvisionalConfiguration": {
        "type": "structure",
        "members": {
            "MaxTimeToLiveInMinutes": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#RateLimitExceededException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"

       }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "RateLimitExceeded",
                "httpResponseCode": 429
            },
            "smithy.api#documentation": "<p>Too many requests have been submitted. Try again after a brief
wait.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 429
        }
```

```
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
    "type": "structure",
    "members": {
        "ReceivedStatus": {
            "target": "com.amazonaws.licensemanager#ReceivedStatus",
            "traits": {
                "smithy.api#documentation": "<p>Received status.</p>"
            }
        },
        "ReceivedStatusReason": {
            "target": "com.amazonaws.licensemanager#StatusReasonMessage",
            "traits": {

    "smithy.api#documentation": "<p>Received status reason.</p>"
            }
        },
        "AllowedOperations": {
            "target": "com.amazonaws.licensemanager#AllowedOperationList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed operations.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Metadata associated with received licenses and grants.</p>"
    }
},
"com.amazonaws.licensemanager#ReceivedStatus": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "PENDING_WORKFLOW",
                "name": "PENDING_WORKFLOW"
            },
            {
                "value": "PENDING_ACCEPT",
                "name": "PENDING_ACCEPT"
            },
             {
                "value": "REJECTED",
                "name": "REJECTED"
            },
            {
                "value": "ACTIVE",
                "name": "ACTIVE"
            },
```

```
            {
              "value": "FAILED_WORKFLOW",
              "name": "FAILED_WORKFLOW"
            },
            {
              "value": "DELETED",
              "name": "DELETED"
            },
            {
              "value": "DISABLED",
              "name": "DISABLED"
            },
            {
              "value": "WORKFLOW_COMPLETED",
              "name": "WORKFLOW_COMPLETED"
            }
          ]
        }
      },
      "com.amazonaws.licensemanager#RedirectException": {
        "type": "structure",
        "members": {

"Location": {
            "target": "com.amazonaws.licensemanager#Location",
            "traits": {
              "smithy.api#httpHeader": "Location"
            }
          },
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 308
        }
      },
      "com.amazonaws.licensemanager#RejectGrant": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#RejectGrantRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#RejectGrantResponse"
        },
        "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest":
{
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
```

"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "

}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
}
},
"com.amazonaws.licensemanager#RenewType": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "None",
"name": "NONE"
},
{
"value": "Weekly",
"name": "WEEKLY"
},
{
"value": "Monthly",
"name": "MONTHLY"
}
]
}
},
"com.amazonaws.licensemanager#ReportContext": {
"type": "structure",
"members": {

"licenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"smithy.api#required": {}
}
}
},
"traits": {

"smithy.api#documentation": " Details of the license configuration that this generator reports on. "
}
},
"com.amazonaws.licensemanager#ReportFrequency": {
"type": "structure",
"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "

}
},
"period": {
"target": "com.amazonaws.licensemanager#ReportFrequencyType",
"traits": {
"smithy.api#documentation": " Time period between each report. The period can be daily, weekly, or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"com.amazonaws.licensemanager#ReportFrequencyType": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "DAY",
"name": "DAY"
},
{
"value": "WEEK",
"name": "WEEK"
},
{
"value": "MONTH",

"name": "MONTH"
}
]
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
"type": "structure",

"members": {
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the report generator. "
}
},
"ReportType": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports that are generated. "
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " License configuration type for this generator. "
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. "
}
},
"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}
},
"LastRunFailureReason": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Failure message for the last report generation attempt. "
}
},
"LastReportGenerationTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the last report was generated at. "

```
            }
        },
        "ReportCreatorAccount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The Amazon Web Services account ID used to create the report
generator.</p>"
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

        "smithy.api#documentation": "<p>Description of the report generator.</p>"
            }
        },
        "S3Location": {
            "target": "com.amazonaws.licensemanager#S3Location",
            "traits": {
                "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
            }
        },
        "CreateTime": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Time the report was created.</p>"
            }
        },
        "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
                "smithy.api#documentation": "<p>Tags associated with the report generator.</p>"
            }
        }
    },

  "traits": {
        "smithy.api#documentation": "<p>Describe the details of a report generator.</p>"
    }
  },
  "com.amazonaws.licensemanager#ReportGeneratorList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportGenerator"
    }
  },
  "com.amazonaws.licensemanager#ReportGeneratorName": {
```

```
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#ReportType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "LicenseConfigurationSummaryReport",
                "name": "LICENSE_CONFIGURATION_SUMMARY_REPORT"
            },
            {
                "value": "LicenseConfigurationUsageReport",
                 "name": "LICENSE_CONFIGURATION_USAGE_REPORT"
            }
        ]
    }
},
"com.amazonaws.licensemanager#ReportTypeList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportType"
    }
},
"com.amazonaws.licensemanager#ResourceInventory": {
    "type": "structure",
    "members": {
        "ResourceId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>ID of the resource.</p>"
            }
        },
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Type of resource.</p>"
            }
        },
         "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
```

```
            }
          },
          "Platform": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Platform of the resource.</p>"
            }
          },
          "PlatformVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
            }
          },
          "ResourceOwningAccountId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation":
"<p>ID of the account that owns the resource.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about a resource.</p>"
        }
      },
      "com.amazonaws.licensemanager#ResourceInventoryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#ResourceInventory"
        }
      },
      "com.amazonaws.licensemanager#ResourceLimitExceededException": {
        "type": "structure",
        "members": {
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "aws.protocols#awsQueryError": {
            "code": "ResourceLimitExceeded",
            "httpResponseCode": 400
          },
          "smithy.api#documentation": "<p>Your resource limits have
been exceeded.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 400
```

```
    }
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "InvalidResource.NotFound",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The resource cannot be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "EC2_INSTANCE",
                 "name": "EC2_INSTANCE"
            },
            {
                "value": "EC2_HOST",
                "name": "EC2_HOST"
            },
            {
                "value": "EC2_AMI",
                "name": "EC2_AMI"
            },
            {
                "value": "RDS",
                "name": "RDS"
            },
            {
                "value": "SYSTEMS_MANAGER_MANAGED_INSTANCE",
                "name": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
            }
        ]
    }
},
"com.amazonaws.licensemanager#S3Location": {
    "type": "structure",
```

"members": {
"bucket": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the S3 bucket
reports are published to. "
}
},
"keyPrefix": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Prefix of the S3 bucket reports are published to. "
}
}
},
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published
to. "
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InternalError",
"httpResponseCode": 500
},
"smithy.api#documentation":
" The server experienced an internal error. Try again. ",
"smithy.api#error": "server",
"smithy.api#httpError": 500
}
},
"com.amazonaws.licensemanager#SignedToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 4096
}
}
},
"com.amazonaws.licensemanager#StatusReasonMessage": {
"type": "string",

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        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 400
            },
            "smithy.api#pattern": "^[\\s\\S]+$"
        }
    },
    "com.amazonaws.licensemanager#String": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"

      }
    },
    "com.amazonaws.licensemanager#Tag": {
        "type": "structure",
        "members": {
            "Key": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag key.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#TagList":
{
        "type": "list",
        "member": {
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"target": "com.amazonaws.licensemanager#Tag"
}
},
"com.amazonaws.licensemanager#TagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#TagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#TagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},

{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Adds the specified tags to the specified license configuration. "
}
},
"com.amazonaws.licensemanager#TagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " One or more tags. ",

"smithy.api#required":
{}
}
}
}
},
"com.amazonaws.licensemanager#TagResourceResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#TokenData": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. "
}
},
"TokenType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"ExpirationTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Token expiration time, in ISO8601-UTC format. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller. "
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the roles included in the

token. "
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " Token status. The possible values are
<code>AVAILABLE</code> and <code>DELETED</code>. "
                }
            }
        },
        "traits": {
            "smithy.api#documentation": " Describes a token. "
        }
    },
    "com.amazonaws.licensemanager#TokenList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#TokenData"
        }
    },
    "com.amazonaws.licensemanager#TokenString": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 4096
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
    "com.amazonaws.licensemanager#TokenType":
{
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "REFRESH_TOKEN",
                    "name": "REFRESH_TOKEN"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"

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            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The digital signature method is unsupported. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#UntagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UntagResourceRequest"
         },
        "output": {
            "target": "com.amazonaws.licensemanager#UntagResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Removes the specified tags from the specified license
configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#UntagResourceRequest":
 {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
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            "smithy.api#required": {}
          }
        },
        "TagKeys": {
          "target": "com.amazonaws.licensemanager#TagKeyList",
          "traits": {
            "smithy.api#documentation": "<p>Keys identifying the tags to remove.</p>",
            "smithy.api#required": {}
          }
        }
      }
    },
    "com.amazonaws.licensemanager#UntagResourceResponse": {
      "type": "structure",
      "members": {}
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfiguration": {

      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
         }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
      }
```

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    },
    "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
      "type": "structure",
      "members": {
        "LicenseConfigurationArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
            "smithy.api#required": {}
          }
        },
        "LicenseConfigurationStatus": {
          "target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
          "traits": {
            "smithy.api#documentation": "<p>New status of the license configuration.</p>"
           }
        },
        "LicenseRules": {
          "target": "com.amazonaws.licensemanager#StringList",
          "traits": {
            "smithy.api#documentation": "<p>New license rule. The only rule that you can add after you create a
license\n        configuration is licenseAffinityToHost.</p>"
          }
        },
        "LicenseCount": {
          "target": "com.amazonaws.licensemanager#BoxLong",
          "traits": {
            "smithy.api#documentation": "<p>New number of licenses managed by the license
configuration.</p>"
          }
        },
        "LicenseCountHardLimit": {
          "target": "com.amazonaws.licensemanager#BoxBoolean",
          "traits": {
            "smithy.api#documentation": "<p>New hard limit of the number of available licenses.</p>"
          }

     },
        "Name": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>New name of the license configuration.</p>"
          }
        },
        "Description": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
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"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{

"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates a report generator. \n After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated. "

}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to update. ",
"smithy.api#required": {}
}
},
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types are supported: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " The report context. ",

"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"

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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidResourceStateException"

        },
            {
                "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified Amazon Web Services resource.</p> \n        <p>You can update the license specifications of AMIs, instances, and hosts.\n        You cannot update the license specifications for launch templates and CloudFormation templates, \n  as they send license configurations to the operation that creates the resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "AddLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
                }
            },
            "RemoveLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to remove.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
```

"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Updates License Manager settings for the current Region. "
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
"type": "structure",
"members": {
"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon S3 bucket where the License Manager information is stored. "
}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
}

```
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Enables integration with Organizations for cross-account
discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Activates cross-account discovery.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#UsageOperation": {
        "type":
 "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            }
        }
    },
    "com.amazonaws.licensemanager#ValidationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    }
  }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
```

```
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 //
 Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
```

```
 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err
 != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return
 nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
```

```
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string
```

```
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
 err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
```

```
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack);
```

```
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

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import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
```

```
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if
 err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
```

```
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}
```

1.4105 aws-sdk-go-v2-config 1.15.1

1.4105.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
```

```
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
 nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
```

```
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData
```

```
 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
```

```
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err
 = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
```

```
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}
```

```
type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack,
 options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil
 {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
```

```
      uses: actions/checkout@v2
      with:
        path: sdkbase
        ref: ${{ github.base_ref }}
    - name: Checkout this ref
      uses: actions/checkout@v2
      with:
        path: new-ref
        fetch-depth: 0
    - name: Get Diff
      run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
    - name: Get Target Files
      run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
       uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
```

```
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
```

```
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity *types.DatetimeRange

 //
 Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
```

```
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
```

```
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
```

```
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
```

```
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack,
 options); err != nil {
  return err
 }
 return nil
}
```

```
func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}
```

AWS SDK for Go

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```
{
  "smithy": "1.0",
  "metadata": {
    "suppressions": [
      {
        "id": "HttpMethodSemantics",
        "namespace": "*"
      },
      {
        "id": "HttpResponseCodeSemantics",
        "namespace": "*"
      },
      {
        "id": "PaginatedTrait",
        "namespace": "*"
      },
      {
        "id": "HttpHeaderTrait",
        "namespace": "*"
      },
      {
        "id": "HttpUriConflict",
        "namespace": "*"
      },
      {
        "id": "Service",
        "namespace": "*"
      }
    ]
  },
  "shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
      "type": "service",
      "version": "2018-08-01",
      "operations": [
        {
          "target": "com.amazonaws.licensemanager#AcceptGrant"
```

```
        },

{
        "target": "com.amazonaws.licensemanager#CheckInLicense"
        },
        {
        "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
        },
        {
        "target": "com.amazonaws.licensemanager#CheckoutLicense"
        },
        {
        "target": "com.amazonaws.licensemanager#CreateGrant"
        },
        {
        "target": "com.amazonaws.licensemanager#CreateGrantVersion"
        },
        {
        "target": "com.amazonaws.licensemanager#CreateLicense"
        },
        {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
        },
        {
        "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
        },
        {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
         },
        {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersion"
        },
        {
        "target": "com.amazonaws.licensemanager#CreateToken"
        },
        {
        "target": "com.amazonaws.licensemanager#DeleteGrant"
        },
        {
        "target": "com.amazonaws.licensemanager#DeleteLicense"
        },
        {
        "target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
        },
        {
        "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
        },
        {
```

"target": "com.amazonaws.licensemanager#DeleteToken"
},
{
"target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

},
{
"target": "com.amazonaws.licensemanager#GetAccessToken"
},
{
"target": "com.amazonaws.licensemanager#GetGrant"
},
{
"target": "com.amazonaws.licensemanager#GetLicense"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseUsage"
},
{
"target": "com.amazonaws.licensemanager#GetServiceSettings"
},
{
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#ListDistributedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},

{
"target": "com.amazonaws.licensemanager#ListLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

"target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListResourceInventory"
},
{
"target": "com.amazonaws.licensemanager#ListTagsForResource"
},
{
"target": "com.amazonaws.licensemanager#ListTokens"
},
{
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#RejectGrant"
},
{
"target": "com.amazonaws.licensemanager#TagResource"
},
{
"target": "com.amazonaws.licensemanager#UntagResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateServiceSettings"

```
            }
        ],
        "traits": {
            "aws.api#service": {
                "sdkId": "License Manager",
                "arnNamespace": "license-manager",
                "cloudFormationName": "LicenseManager",
                "cloudTrailEventSource": "licensemanager.amazonaws.com",
                "endpointPrefix":
 "license-manager"
            },
            "aws.auth#sigv4": {
                "name": "license-manager"
            },
            "aws.protocols#awsJson1_1": {},
            "smithy.api#documentation": "<p>License Manager makes it easier to manage licenses from software
vendors across multiple \n         Amazon Web Services accounts and on-premises servers.</p>",
            "smithy.api#title": "AWS License Manager",
            "smithy.api#xmlNamespace": {
                "uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
            }
        }
    },
    "com.amazonaws.licensemanager#AcceptGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#AcceptGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
        },
        "errors": [
            {

           "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantRequest":
{
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant
status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        }
    },
```

```
    "com.amazonaws.licensemanager#AccessDeniedException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "aws.protocols#awsQueryError": {
          "code": "ServiceAccessDenied",
          "httpResponseCode": 401
        },
        "smithy.api#documentation": "<p>Access to resource denied.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 401
      }
    },
    "com.amazonaws.licensemanager#AllowedOperation":
{
      "type": "string",
      "traits": {
        "smithy.api#enum": [
          {
            "value": "CreateGrant",
            "name": "CREATE_GRANT"
          },
          {
            "value": "CheckoutLicense",
            "name": "CHECKOUT_LICENSE"
          },
          {
            "value": "CheckoutBorrowLicense",
            "name": "CHECKOUT_BORROW_LICENSE"
          },
          {
            "value": "CheckInLicense",
            "name": "CHECK_IN_LICENSE"
          },
          {
            "value": "ExtendConsumptionLicense",
            "name": "EXTEND_CONSUMPTION_LICENSE"
          },
          {
            "value": "ListPurchasedLicenses",
            "name": "LIST_PURCHASED_LICENSES"
           },
          {
            "value": "CreateToken",
```

"name": "CREATE_TOKEN"
}
]
}
},
"com.amazonaws.licensemanager#AllowedOperationList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#AllowedOperation"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 7
}
}
},
"com.amazonaws.licensemanager#Arn": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
}
},
"com.amazonaws.licensemanager#ArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
}
},
"com.amazonaws.licensemanager#AuthorizationException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "AuthorizationFailure",
"httpResponseCode": 403
},
"smithy.api#documentation": " The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n policy associated with this account. ",

```
            "smithy.api#error": "client",
            "smithy.api#httpError": 403
        }
    },
    "com.amazonaws.licensemanager#AutomatedDiscoveryInformation":
{
        "type": "structure",
        "members": {
            "LastRunTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes automated discovery.</p>"
        }
    },
    "com.amazonaws.licensemanager#Boolean": {
        "type": "boolean"
    },
    "com.amazonaws.licensemanager#BorrowConfiguration": {
        "type": "structure",
        "members": {
            "AllowEarlyCheckIn": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether early check-ins are allowed.</p>",
                     "smithy.api#required": {}
                }
            },
            "MaxTimeToLiveInMinutes": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#BoxBoolean": {
        "type": "boolean",
        "traits": {
            "smithy.api#box": {}
```

```
        }
    },
    "com.amazonaws.licensemanager#BoxInteger": {
        "type": "integer",
        "traits": {
            "smithy.api#box": {}
        }
    },
    "com.amazonaws.licensemanager#BoxLong": {

    "type": "long",
        "traits": {
            "smithy.api#box": {}
        }
    },
    "com.amazonaws.licensemanager#CheckInLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
```

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",

        "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },

 {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                 "traits": {
                    "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
                    "smithy.api#required": {}
                }
            },
```

"DigitalSignatureMethod": {
"target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
"traits": {
"smithy.api#documentation": " Digital signature method. The possible value is JSON Web Signature (JWS) algorithm PS384.\n For more information, see RFC 7518 Digital Signature with RSASSA-PSS. ",
"smithy.api#required": {}
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",

"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},

"EntitlementsAllowed": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " Allowed license entitlements. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"SignedToken": {

"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation":
" Information about constraints. "
}
}
}
},
"com.amazonaws.licensemanager#CheckoutLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks out the specified license. "
}
},
"com.amazonaws.licensemanager#CheckoutLicenseRequest": {
"type": "structure",
"members": {
"ProductSKU":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. ",
"smithy.api#required": {}
}
},

"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. ",
"smithy.api#required": {}
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Key fingerprint identifying the license. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Node ID. "
}
}
}
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
"type": "structure",
"members": {
"CheckoutType": {

"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation":
" Allowed license entitlements. "
}
},
"SignedToken": {
"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",

"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the checkout license. "
}

```
            }
        }
    },
    "com.amazonaws.licensemanager#CheckoutType": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "PROVISIONAL",
                    "name": "PROVISIONAL"
                },
                {
                    "value": "PERPETUAL",
                    "name": "PERPETUAL"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#ClientRequestToken":
{
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max": 36
            }
        }
    },
    "com.amazonaws.licensemanager#ClientToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 2048
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
    "com.amazonaws.licensemanager#ConflictException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ConflictException",
```

"httpResponseCode": 409
},
"smithy.api#documentation": " There
was a conflict processing the request. Try your request again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 409
}
},
"com.amazonaws.licensemanager#ConsumedLicenseSummary": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Resource type of the resource consuming a license. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about license consumption. "
}
},
"com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
}
},
"com.amazonaws.licensemanager#ConsumptionConfiguration": {
"type": "structure",
"members": {
"RenewType": {
"target": "com.amazonaws.licensemanager#RenewType",
"traits": {
"smithy.api#documentation": " Renewal frequency. "
}
},
"ProvisionalConfiguration": {
"target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}

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            },
            "BorrowConfiguration": {

                "target": "com.amazonaws.licensemanager#BorrowConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },

        {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of license entitlements with specific Amazon Web Services accounts.</p>"
```

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        }
    },
    "com.amazonaws.licensemanager#CreateGrantRequest": {
        "type": "structure",
        "members": {

  "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientToken",
            "traits": {
                "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                "smithy.api#required": {}
            }
        },
        "GrantName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant name.</p>",
                "smithy.api#required": {}
            }
        },
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
        },

      "Principals": {
            "target": "com.amazonaws.licensemanager#PrincipalArnList",
            "traits": {
                "smithy.api#documentation": "<p>The grant principals.</p>",
                "smithy.api#required": {}
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "AllowedOperations": {
            "target": "com.amazonaws.licensemanager#AllowedOperationList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed operations for the grant.</p>",
                "smithy.api#required": {}
```

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                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateGrantResponse":
{
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersion": {
        "type": "operation",
        "input": {

  "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
```

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a new version of the specified grant. "
}
},
"com.amazonaws.licensemanager#CreateGrantVersionRequest": {
"type": "structure",
"members": {
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. "
}
},
"Status": {

"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",

"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the grant. "
}
}
}
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant
status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New version of the grant. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseRequest"

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    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a license.</p>"
    }
},
"com.amazonaws.licensemanager#CreateLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license configuration.</p> \n        <p>A license configuration is an abstraction of a customer license
 agreement that can be\n        consumed and enforced by License Manager. Components include specifications for the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), license affinity  to host (how long a \n        license must be associated with a host), and the number of licenses purchased and used.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Description of the license configuration.</p>"
                }
            },
            "LicenseCountingType": {
                "target": "com.amazonaws.licensemanager#LicenseCountingType",
                "traits": {
                    "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
                }
```

},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {

"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows. \n \n \n \n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n <code>licenseAffinityToHost</code> |\n <code>maximumCores</code> | <code>minimumCores</code>\n \n \n \n \n <code>Instances</code> dimension: <code>allowedTenancy</code> | \n <code>maximumCores</code> | <code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n \n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n <code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code>\n \n \n \n \n <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n <code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the license configuration. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits":

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{
                "smithy.api#documentation": "<p>Product information.</p>"
            }
        }
    }
  },
  "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse": {
    "type": "structure",
    "members": {
      "LicenseConfigurationArn": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
        }
      }
    }
  },
  "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
     },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      },
      {
        "target": "com.amazonaws.licensemanager#ValidationException"
      }
    ],
    "traits": {
      "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
    }
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    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest":
 {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting
from. \n        For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the AWS
CLI</a> in the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            },
            "DestinationLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting to.
For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the AWS
CLI</a> in the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
        "type": "operation",
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        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "ReportGeneratorName": {
                "target":
"com.amazonaws.licensemanager#ReportGeneratorName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>",
                    "smithy.api#required": {}
                }
            },
            "Type": {
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"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types an be generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}
}
},

"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " Defines the type of license configuration the report generator tracks. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
}

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    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
      "type": "structure",
      "members": {
        "LicenseManagerReportGeneratorArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits":
 {
            "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the new report
generator.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#CreateLicenseRequest": {
      "type": "structure",
      "members": {
        "LicenseName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License name.</p>",
            "smithy.api#required": {}
          }
        },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product name.</p>",
            "smithy.api#required": {}
          }
        },
        "ProductSKU": {
          "target": "com.amazonaws.licensemanager#String",
           "traits": {
            "smithy.api#documentation": "<p>Product SKU.</p>",
            "smithy.api#required": {}
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#Issuer",
          "traits": {
            "smithy.api#documentation": "<p>License issuer.</p>",
            "smithy.api#required": {}
          }
        },
        "HomeRegion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
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"smithy.api#documentation": " Home Region for the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation":
" Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {

"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}

```
    }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License version.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersion":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
```

```
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License name.</p>",
                "smithy.api#required": {}
            }
        },
        "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product name.</p>",
                "smithy.api#required": {}
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#Issuer",
            "traits": {
                "smithy.api#documentation": "<p>License issuer.</p>",
                "smithy.api#required": {}
```

```
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation":
 "<p>Home Region of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "Validity": {
            "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {
                "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
                "smithy.api#required": {}
            }
        },
        "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license.</p>"
            }
        },
        "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
            "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>",
                 "smithy.api#required": {}
            }
        },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n         running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n         usage.</p>",
                "smithy.api#required": {}
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>",
                "smithy.api#required": {}
            }
        },
        "ClientToken": {
```

"target":
"com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. "
}
},

"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New version of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
}
}
},
"com.amazonaws.licensemanager#CreateToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateTokenResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a long-lived token. \n A refresh token is a JWT token used to get an access token. With an access token,\n you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n call License Manager to manage the specified license. "
}
},
"com.amazonaws.licensemanager#CreateTokenRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n JWT token. ",
"smithy.api#required": {}
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the IAM roles to embed

in the token. \n License Manager does not check whether the roles are in use. "
}
},
"ExpirationInDays": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Token expiration, in days, counted from token creation. The default is 365 days. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller to be included in the JWT token. The data is mapped\n to the amr claim of the JWT token. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Idempotency token, valid for 10 minutes. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CreateTokenResponse": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. "
}
},
"TokenType": {
"target": "com.amazonaws.licensemanager#TokenType",
"traits": {
"smithy.api#documentation": " Token type. "
}
},
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token, encoded as a JWT token. "
}

```
            }
        }
    },
    "com.amazonaws.licensemanager#DateTime": {
        "type": "timestamp"
    },
    "com.amazonaws.licensemanager#DatetimeRange": {
        "type": "structure",
        "members": {
            "Begin": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Start of the time range.</p>",
                    "smithy.api#required": {}
                }
            },
            "End": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>End of the time range.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC
format.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
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        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

    },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Deletes the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#DeleteGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "StatusReason": {
            "target": "com.amazonaws.licensemanager#StatusReasonMessage",
            "traits": {

    "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Current version of the grant.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanager#DeleteGrantResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
```

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                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation":
"<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#DeleteLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
```

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            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
         },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license configuration.</p> \n          <p>You cannot delete a license configuration
 that is in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license configuration.</p>",
                    "smithy.api#required": {}
                }
```

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            }
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

         "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified report generator.</p>\n        <p>This action
deletes the report generator, which stops it from generating future reports.\n        The action cannot be reversed. It
has no effect on the previous reports from this generator.</p>"
        }
    },
```

"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to be deleted. ",
"smithy.api#required": {}
}
}
}
},

"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#DeleteLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#DeleteLicenseResponse": {
"type": "structure",
"members": {
"Status": {
"target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"DeletionDate": {

"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date when the license is deleted. "
}
}
}
},
"com.amazonaws.licensemanager#DeleteToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteTokenResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified token. Must be called in the license home Region. "
}

},
"com.amazonaws.licensemanager#DeleteTokenRequest": {
"type": "structure",
"members": {

"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#DeleteTokenResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#DigitalSignatureMethod": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "JWT_PS384",
"name": "JWT_PS384"
}
]
}
},
"com.amazonaws.licensemanager#Entitlement": {
"type": "structure",

"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement resource. Use only if the unit is None. "
}
},
"MaxCount": {
"target": "com.amazonaws.licensemanager#Long",
"traits": {
"smithy.api#documentation": " Maximum entitlement count. Use if the unit is not None. "
}
},
"Overage": {

"target": "com.amazonaws.licensemanager#BoxBoolean",

"traits": {
"smithy.api#documentation": " Indicates whether overages are allowed. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementUnit",
"traits": {
"smithy.api#documentation": " Entitlement unit. ",
"smithy.api#required": {}
}
},
"AllowCheckIn": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether check-ins are allowed. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a resource entitled for use with a license. "
}
},
"com.amazonaws.licensemanager#EntitlementData": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data value. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {
"smithy.api#documentation": " Entitlement data unit. ",
"smithy.api#required": {}
}
}
},

"traits": {
"smithy.api#documentation": " Data associated
with an entitlement resource. "
}
},
"com.amazonaws.licensemanager#EntitlementDataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#EntitlementData"
}
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "Count",
"name": "COUNT"
},
{
"value": "None",
"name": "NONE"
},
{
"value": "Seconds",
"name": "SECONDS"
},
{
"value": "Microseconds",
"name": "MICROSECONDS"
},
{

"value": "Milliseconds",
"name": "MILLISECONDS"
},
{
"value": "Bytes",
"name": "BYTES"
},
{
"value": "Kilobytes",
"name": "KILOBYTES"
},
{
"value": "Megabytes",
"name": "MEGABYTES"
},

```
            {
              "value": "Gigabytes",
              "name": "GIGABYTES"
            },
            {
              "value": "Terabytes",
              "name": "TERABYTES"
            },
            {
              "value": "Bits",
              "name": "BITS"
            },
            {
              "value": "Kilobits",
              "name": "KILOBITS"
             },
            {
              "value": "Megabits",
              "name": "MEGABITS"
            },
            {
              "value": "Gigabits",
              "name": "GIGABITS"
            },
            {
              "value": "Terabits",
              "name": "TERABITS"
            },
            {
              "value": "Percent",
              "name": "PERCENT"
            },
            {
              "value": "Bytes/Second",
              "name": "BYTES_PER_SECOND"
            },
            {
              "value": "Kilobytes/Second",
              "name": "KILOBYTES_PER_SECOND"
            },
            {
              "value": "Megabytes/Second",
              "name": "MEGABYTES_PER_SECOND"

        },
            {
              "value": "Gigabytes/Second",
              "name": "GIGABYTES_PER_SECOND"
```

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            },
            {
                "value": "Terabytes/Second",
                "name": "TERABYTES_PER_SECOND"
            },
            {
                "value": "Bits/Second",
                "name": "BITS_PER_SECOND"
            },
            {
                "value": "Kilobits/Second",
                "name": "KILOBITS_PER_SECOND"
            },
            {
                "value": "Megabits/Second",
                "name": "MEGABITS_PER_SECOND"
            },
            {
                "value": "Gigabits/Second",
                "name": "GIGABITS_PER_SECOND"
            },
            {
                "value": "Terabits/Second",

"name": "TERABITS_PER_SECOND"
            },
            {
                "value": "Count/Second",
                "name": "COUNT_PER_SECOND"
            }
        ]
    }
},
"com.amazonaws.licensemanager#EntitlementList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Entitlement"
    }
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
```

"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#EntitlementUnit": {

"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "Count",
"name": "COUNT"
},
{
"value": "None",
"name": "NONE"
},
{
"value": "Seconds",
"name": "SECONDS"
},
{
"value": "Microseconds",
"name": "MICROSECONDS"
},
{
"value": "Milliseconds",
"name": "MILLISECONDS"
},
{
"value": "Bytes",
"name": "BYTES"
},
{
"value": "Kilobytes",
"name": "KILOBYTES"

},
{
"value": "Megabytes",
"name": "MEGABYTES"
},
{
"value": "Gigabytes",
"name": "GIGABYTES"
},
{
"value": "Terabytes",

"name": "TERABYTES"
},
{
"value": "Bits",
"name": "BITS"
},
{
"value": "Kilobits",
"name": "KILOBITS"
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},
{
"value": "Gigabits",
"name": "GIGABITS"
},
{
"value": "Terabits",
"name": "TERABITS"
},
{
"value": "Percent",
"name": "PERCENT"
},
{
"value": "Bytes/Second",
"name": "BYTES_PER_SECOND"
},
{
"value": "Kilobytes/Second",
"name": "KILOBYTES_PER_SECOND"
},
{
"value": "Megabytes/Second",
"name": "MEGABYTES_PER_SECOND"
},
{
"value": "Gigabytes/Second",
"name": "GIGABYTES_PER_SECOND"
},
{
"value": "Terabytes/Second",
"name": "TERABYTES_PER_SECOND"
},
{

"value": "Bits/Second",
"name": "BITS_PER_SECOND"
},
{
"value": "Kilobits/Second",
"name": "KILOBITS_PER_SECOND"
},
{
"value": "Megabits/Second",
"name": "MEGABITS_PER_SECOND"
},
{
"value": "Gigabits/Second",
"name": "GIGABITS_PER_SECOND"
},
{
"value": "Terabits/Second",
"name": "TERABITS_PER_SECOND"
},
{
"value": "Count/Second",
"name": "COUNT_PER_SECOND"
}
]
}
},
"com.amazonaws.licensemanager#EntitlementUsage": {
"type": "structure",

"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement usage name. ",
"smithy.api#required": {}
}
},
"ConsumedValue": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Resource usage consumed. ",
"smithy.api#required": {}
}
},
"MaxCount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Maximum entitlement usage count. "

```
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
    }
},
"com.amazonaws.licensemanager#EntitlementUsageList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#EntitlementUsage"
    }
},
"com.amazonaws.licensemanager#ExtendLicenseConsumption": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
    },
    "errors": [
        {

    "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
```

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            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}
                }
            },
            "DryRun": {
                "target": "com.amazonaws.licensemanager#Boolean",
                "traits": {
                    "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
        "type": "structure",

        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>"
                }
            },
            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#FailedDependencyException": {
        "type": "structure",
        "members": {
```

"Message": {
"target": "com.amazonaws.licensemanager#Message"
},
"ErrorCode": {
"target": "com.amazonaws.licensemanager#String"
}
},

"traits": {
"aws.protocols#awsQueryError": {
"code": "FailedDependency",
"httpResponseCode": 424
},
"smithy.api#documentation": " A dependency required to run the API is missing. ",
"smithy.api#error": "client",
"smithy.api#httpError": 424
}
},
"com.amazonaws.licensemanager#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#FilterName",
"traits": {
"smithy.api#documentation": " Name of the filter. Filter names are case-sensitive. "
}
},
"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " Filter values. Filter
values are case-sensitive. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter name and value pair that is used to return more specific results
from a\n describe operation. Filters can be used to match a set of resources by specific criteria,\n such as
tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},

"traits": {
"aws.protocols#awsQueryError": {
"code": "FilterLimitExceeded",
"httpResponseCode": 400
},
"smithy.api#documentation": " The request uses too many filters or too many filter values. ",
"smithy.api#error":
"client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter"
}
},
"com.amazonaws.licensemanager#FilterName": {
"type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
"type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#FilterValue",
"traits": {
"smithy.api#xmlName": "item"
}
}
},
"com.amazonaws.licensemanager#Filters": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter",
"traits": {
"smithy.api#xmlName":
"item"
}
}
},
"com.amazonaws.licensemanager#GetAccessToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"

}
],
"traits": {
"smithy.api#documentation": " Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access tokens\n are valid for one hour. "
}
},
"com.amazonaws.licensemanager#GetAccessTokenRequest": {
"type": "structure",
"members": {
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token, encoded as a JWT token. ",
"smithy.api#required": {}
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Token properties to validate against those present in the JWT token. "
}

}
}
},
"com.amazonaws.licensemanager#GetAccessTokenResponse": {
"type": "structure",
"members": {

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        "AccessToken": {
            "target": "com.amazonaws.licensemanager#TokenString",
            "traits": {
                "smithy.api#documentation": "<p>Temporary access token.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
```

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            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
                "smithy.api#documentation": "<p>Grant details.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",

    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license
configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
```

```
            }
          }
        }
      },
      "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
          "LicenseConfigurationId":
{
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
            }
          },
          "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
          },
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Name of the license configuration.</p>"
            }
          },
          "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation":
"<p>Description of the license configuration.</p>"
            }
          },
          "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
              "smithy.api#documentation": "<p>Dimension for which the licenses are counted.</p>"
            }
          },
          "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
              "smithy.api#documentation": "<p>License rules.</p>"
            }
          },
          "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
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"smithy.api#documentation": " Number of available licenses. "
}
},
"LicenseCountHardLimit": {

"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Sets the number of available licenses as a hard limit. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses assigned to resources. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License configuration status. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the
owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList":

{
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {

"smithy.api#documentation": " Gets
information about the specified license type conversion task. "
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information
on. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license
type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license
conversion task is associated with. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted to. "

}
},
"StatusMessage": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " Status of the license type conversion task. "
}
},
"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was started . "
}
},
"LicenseConversionTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Amount of time to complete the license type conversion. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was completed. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{

"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation":
" Gets information about the specified report generator. "
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"ReportGenerator": {
"target": "com.amazonaws.licensemanager#ReportGenerator",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic
reports about your license configurations. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {

"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseResponse": {
"type": "structure",
"members": {
"License": {
"target":
"com.amazonaws.licensemanager#License",
"traits": {
"smithy.api#documentation": " License details. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseUsage": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the usage of the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseUsageRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseUsageResponse":
{
"type": "structure",
"members": {
"LicenseUsage": {
"target": "com.amazonaws.licensemanager#LicenseUsage",
"traits": {
"smithy.api#documentation": " License usage details. "
}
}
}
},
"com.amazonaws.licensemanager#GetServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"

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            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },

  {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
discovery data,\n        and so on.</p>"
                }

            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>SNS topic configured to receive notifications from License
Manager.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether Organizations is integrated with License
Manager for\n        cross-account discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
```

"smithy.api#documentation": " Indicates whether cross-account discovery is enabled. "
}

},
"LicenseManagerResourceShareArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource share. The License Manager management account \n provides member accounts with access to this share. "
}
}
}
},
"com.amazonaws.licensemanager#Grant": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"ParentArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Parent ARN. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. ",
"smithy.api#required": {}
}
},
"GranteePrincipalArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {

"smithy.api#documentation": " The grantee principal ARN. ",

"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"Version": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. ",
"smithy.api#required": {}
}
},
"GrantedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Granted operations. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes a grant. "
}
},
"com.amazonaws.licensemanager#GrantList": {
"type": "list",
"member": {

"target": "com.amazonaws.licensemanager#Grant"
}
},
"com.amazonaws.licensemanager#GrantStatus": {
"type": "string",

"traits": {
"smithy.api#enum": [
{
"value": "PENDING_WORKFLOW",
"name": "PENDING_WORKFLOW"
},
{
"value": "PENDING_ACCEPT",
"name": "PENDING_ACCEPT"
},
{
"value": "REJECTED",
"name": "REJECTED"
},
{
"value": "ACTIVE",
"name": "ACTIVE"
},
{
"value": "FAILED_WORKFLOW",
"name": "FAILED_WORKFLOW"
},
{
"value": "DELETED",
"name": "DELETED"
},
{
"value": "PENDING_DELETE",
"name": "PENDING_DELETE"
},
{
"value": "DISABLED",
"name": "DISABLED"
},
{
"value": "WORKFLOW_COMPLETED",
"name": "WORKFLOW_COMPLETED"
}
]
}
},
"com.amazonaws.licensemanager#GrantedLicense": {

"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. "
}

},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " Granted license issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the granted license. "

}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " Granted license status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",

"traits": {
"smithy.api#documentation": " Date and time range during which the granted license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Granted license beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Granted license metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Creation time of the granted license. "

}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Version of the granted license. "
}
},
"ReceivedMetadata": {
"target": "com.amazonaws.licensemanager#ReceivedMetadata",
"traits": {
"smithy.api#documentation": " Granted license received metadata. "
}
}

```
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes a license that is granted to a grantee.</p>"
        }
    },
    "com.amazonaws.licensemanager#GrantedLicenseList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#GrantedLicense"
        }
    },
    "com.amazonaws.licensemanager#ISO8601DateTime":
{
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            },
            "smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-
1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[ 0-3]|[0-1][0-9]):[0-5][0-9])+$"
        }
    },
    "com.amazonaws.licensemanager#Integer": {
        "type": "integer",
        "traits": {
            "smithy.api#box": {}
        }
    },
    "com.amazonaws.licensemanager#InvalidParameterValueException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidParameterValueProvided",

 "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>One or more parameter values are not valid.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InvalidResourceStateException": {
```

"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidResourceState",
"httpResponseCode": 400
},
"smithy.api#documentation": " License Manager cannot allocate a license to a resource because of its state. \n For example, you cannot allocate a license to an instance in the process of shutting\n down. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#InventoryFilter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the filter. ",
"smithy.api#required": {}
}
},
"Condition": {
"target": "com.amazonaws.licensemanager#InventoryFilterCondition",
"traits": {
"smithy.api#documentation": " Condition of the filter. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Value of the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " An inventory filter. "
}
},
"com.amazonaws.licensemanager#InventoryFilterCondition": {

"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "EQUALS",
"name": "EQUALS"
},
{
"value": "NOT_EQUALS",
"name": "NOT_EQUALS"
},
{
"value": "BEGINS_WITH",
"name": "BEGINS_WITH"
},
{
"value": "CONTAINS",
"name": "CONTAINS"
}
]
}
},
"com.amazonaws.licensemanager#InventoryFilterList":
{
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#InventoryFilter"
}
},
"com.amazonaws.licensemanager#Issuer": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. ",
"smithy.api#required": {}
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
}
},

"traits": {

"smithy.api#documentation": " Details about the issuer of a license. "
}
},
"com.amazonaws.licensemanager#IssuerDetails": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. "
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer key fingerprint. "
}
}
},
"traits": {
"smithy.api#documentation": " Details associated with the issuer of a license. "
}
},
"com.amazonaws.licensemanager#License": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. "
}
},

"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " License issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "

```
            }
            },
            "ConsumptionConfiguration": {
                "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
                }
            },
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>License metadata.</p>"
                }
            },
            "CreateTime": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>License creation time.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits":
{
                    "smithy.api#documentation": "<p>License version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfiguration": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
```

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        },
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>"
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the license configuration.</p>"
                }
            },
            "LicenseCountingType": {
                "target": "com.amazonaws.licensemanager#LicenseCountingType",
                "traits": {
                    "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
                }
            },
            "LicenseRules": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {

                    "smithy.api#documentation": "<p>License rules.</p>"
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
                }
            },
            "LicenseCountHardLimit": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Number of available licenses as a hard limit.</p>"
                }
            },
            "DisassociateWhenNotFound": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"

    }
            },
            "ConsumedLicenses": {
                "target": "com.amazonaws.licensemanager#BoxLong",
```

"traits": {
"smithy.api#documentation": " Number of licenses consumed. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the license configuration. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the license configuration's owner. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",

"traits": {
"smithy.api#documentation": " Summaries for licenses consumed by various resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated
discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license
agreement that can be\n consumed and enforced by License Manager. Components include specifications for
the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n
Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a

host), and the number of licenses purchased and used. "
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " Amazon Resource Name
 (ARN) of the resource. "
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": " Type of server resource. "
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource
consuming licenses. "
                }
            },
            "AssociationTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": " Time when the license configuration was associated with the
resource. "
                }
            },
            "AmiAssociationScope":
 {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-
account</code>. "
                }
            }
        },
        "traits": {
            "smithy.api#documentation": " Describes an association with a license configuration. "
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
        "type": "list",

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        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "AVAILABLE",
                    "name": "AVAILABLE"
                },
                 {
                    "value": "DISABLED",
                    "name": "DISABLED"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceStatus": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {

"smithy.api#documentation": "<p>Status of the resource.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
                }
            },
            "AssociationTime": {
```

"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was initially associated with the resource. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}

},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
}
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfiguration"
}
},
"com.amazonaws.licensemanager#LicenseConversionContext": {
"type": "structure",
"members": {
"UsageOperation": {
"target": "com.amazonaws.licensemanager#UsageOperation",
"traits": {
"smithy.api#documentation": " The Usage operation value that corresponds to the license type you are converting your resource from. For more information about which platforms correspond to which usage operation values see Sample data: usage operation by platform\n \n "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},

"com.amazonaws.licensemanager#LicenseConversionTask": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the license type conversion task. "
}
},
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource associated with the license type\n conversion task. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted to. "
}
},

"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " The status of the conversion task. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was started at. "

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                }
            },
            "LicenseConversionTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {

        "smithy.api#documentation": "<p>The time the usage operation value of the resource was changed.</p>"
                }
            },
            "EndTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTaskId": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            },
            "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
        "type":
"string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "IN_PROGRESS",
                    "name": "IN_PROGRESS"
                },
                {
                    "value": "SUCCEEDED",
                    "name": "SUCCEEDED"
                },
                {
                    "value": "FAILED",
                    "name": "FAILED"
                }
            ]
```

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    }
},
"com.amazonaws.licensemanager#LicenseConversionTasks": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#LicenseConversionTask"
    }
},
"com.amazonaws.licensemanager#LicenseCountingType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "vCPU",
                "name": "VCPU"

            },
            {
                "value": "Instance",
                "name": "INSTANCE"
            },
            {
                "value": "Core",
                "name": "CORE"
            },
            {
                "value": "Socket",
                "name": "SOCKET"
            }
        ]
    }
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "PENDING_DELETE",
                "name": "PENDING_DELETE"
            },
            {
                "value": "DELETED",
                "name": "DELETED"
            }
        ]
    }
},
"com.amazonaws.licensemanager#LicenseList": {
```

"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#License"
}
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Resource type. "
}
},
"ErrorMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Error message. "

}
},
"FailureTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Failure time. "
}
},
"OperationName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the operation. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource. "
}
},
"OperationRequestedBy": {
"target": "com.amazonaws.licensemanager#String",

"traits": {

"smithy.api#documentation": " The requester is \"License Manager Automated Discovery\". "
}
},
"MetadataList": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Reserved. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the failure of a license operation. "
}
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailure"
}
},
"com.amazonaws.licensemanager#LicenseSpecification": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {

"target": "com.amazonaws.licensemanager#LicenseSpecification"
}
},
"com.amazonaws.licensemanager#LicenseStatus":
{
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "AVAILABLE",
"name": "AVAILABLE"
},
{
"value": "PENDING_AVAILABLE",
"name": "PENDING_AVAILABLE"
},
{
"value": "DEACTIVATED",
"name": "DEACTIVATED"
},
{
"value": "SUSPENDED",
"name": "SUSPENDED"
},
{
"value": "EXPIRED",
"name": "EXPIRED"
},
{
"value": "PENDING_DELETE",
"name": "PENDING_DELETE"
},
{

"value": "DELETED",
"name": "DELETED"
}
]
}
},
"com.amazonaws.licensemanager#LicenseUsage": {
"type": "structure",
"members": {
"EntitlementUsages": {
"target": "com.amazonaws.licensemanager#EntitlementUsageList",
"traits": {
"smithy.api#documentation": " License entitlement usages. "
}

```
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes the entitlement usage associated with a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseUsageException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {

         "aws.protocols#awsQueryError": {
                "code": "LicenseUsageFailure",
                "httpResponseCode": 412
            },
            "smithy.api#documentation": "<p>You do not have enough licenses available to support a new resource
launch.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 412
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the resource associations for the specified license
configuration.</p> \n        <p>Resource associations need not consume licenses from a license configuration. \n
For example, an AMI or a stopped instance might not consume a license (depending on \n        the license
rules).</p>"
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest":
 {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                 }
            }
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationAssociations": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the associations for the license
configuration.</p>"
                }
            },
            "NextToken": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {
"target":
"com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants distributed for the specified license. "
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {

"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranteePrincipalARN</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},

"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configuration operations that failed. "
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name of the license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",

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                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse": {
        "type": "structure",
        "members": {
            "LicenseOperationFailureList": {
                "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
                "traits": {
                    "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurations":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

```
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the license configurations for your account.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
    "type": "structure",
    "members": {
        "LicenseConfigurationArns": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "Filters": {
            "target": "com.amazonaws.licensemanager#Filters",
            "traits": {
                "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n                Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n                Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n
                <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement
is used. \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n
</li>\n            <li>\n                <p>\n                <code>usagelimitExceeded</code> - A Boolean value that indicates
whether the available licenses have been exceeded. \n                Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
            }
        }
    }
```

```
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurations": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurations",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configurations.</p>"

                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasks": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target":
"com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
        }
```

```
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
        "type": "structure",
        "members": {
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                 "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>\n        Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n      </p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTasks": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configuration tasks for your
account.</p>"
                 }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
        },
```

"output": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the report generators for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest": {
"type":
"structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported:
\n \n \n \n <code>LicenseConfigurationArn</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to
return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
"type": "structure",
"members": {
"ReportGenerators": {
"target": "com.amazonaws.licensemanager#ReportGeneratorList",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic reports about your license
configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
"type": "operation",
"input":
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{

"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Describes the
license configurations for the specified resource. "
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a resource that has an
associated license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {
"LicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " License configurations associated with a resource. "
}

```
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersions": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation":
"<p>Lists all versions of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
```

```
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum
number of results to return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
        "type": "structure",
        "members": {
            "Licenses": {
                "target": "com.amazonaws.licensemanager#LicenseList",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenses": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicensesRequest"
        },
         "output": {
            "target": "com.amazonaws.licensemanager#ListLicensesResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
```

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            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the licenses for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicensesRequest": {
        "type": "structure",
        "members": {
            "LicenseArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>Beneficiary</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                <code>ProductSKU</code>\n                </p>\n            </li>\n
    <li>\n                <p>\n
        <code>Fingerprint</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>Status</code>\n                </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
```

```
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicensesResponse": {
        "type": "structure",
        "members": {
            "Licenses": {

    "target": "com.amazonaws.licensemanager#LicenseList",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrants": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },

{
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists grants that are received but not accepted.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
        "type": "structure",

    "members": {
            "GrantArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>ProductSKU</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                <code>LicenseIssuerName</code>\n                </p>\n
</li>\n            <li>\n                <p>\n                <code>LicenseArn</code>\n                </p>\n            </li>\n
<li>\n                <p>\n
  <code>GrantStatus</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>GranterAccountId</code>\n                </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
        "type": "structure",
        "members": {
```

"Grants": {

"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Received grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"

},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {

"smithy.api#documentation": " Lists received licenses. "
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
"type": "structure",

"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>IssuerName</code>\n
\n \n \n \n <code>Beneficiary</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {

"target": "com.amazonaws.licensemanager#GrantedLicenseList",
"traits": {
"smithy.api#documentation": " Received license details. "
}

```
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
  },
  "com.amazonaws.licensemanager#ListResourceInventory": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"

},
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#FailedDependencyException"
        },
        {
            "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
    }
  },
  "com.amazonaws.licensemanager#ListResourceInventoryRequest": {
```

"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#InventoryFilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>application_name</code> - The name of the application. \n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n \n \n \n <code>license_included</code> - The type of license included. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n Possible values are <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n \n <code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n \n \n \n <code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account). \n \n "
}
}
}
},
"com.amazonaws.licensemanager#ListResourceInventoryResponse": {
"type": "structure",
"members": {
"ResourceInventoryList": {
"target": "com.amazonaws.licensemanager#ResourceInventoryList",
"traits":
{
"smithy.api#documentation": " Information about the resources. "
}
},

"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListTagsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the tags for the specified license configuration. "
}
},
"com.amazonaws.licensemanager#ListTagsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required":
{}
}

```
            }
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the tags.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
            "TokenIds": {
```

"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " Token IDs. "
}
},
"Filters": {
"target":
"com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filter is supported: \n
\n \n \n <code>LicenseArns</code>\n \n \n
"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListTokensResponse":
{
"type": "structure",
"members": {
"Tokens": {
"target": "com.amazonaws.licensemanager#TokenList",
"traits": {
"smithy.api#documentation": " Received token details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfiguration": {
"type": "operation",

"input": {
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists all license usage records for a license configuration, displaying license\n consumption details by resource
at a selected point in time. Use this action to audit the\n current license consumption for any license inventory and configuration. "
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "

```
            }
        },
        "NextToken": {

            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "Filters": {
            "target": "com.amazonaws.licensemanager#Filters",
            "traits": {
                "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>resourceArn</code> - The ARN of the license configuration resource.\n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n
    <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> |
<code>EC2_HOST</code> | <code>EC2_AMI</code> |
<code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>).
 \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n
    <li>\n                <p>\n                <code>resourceAccount</code> - The ID of the account that owns the
resource. \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n
</li>\n        </ul>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
    "type": "structure",
    "members": {
        "LicenseConfigurationUsageList": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license configurations.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#Location": {
    "type": "string"
},
"com.amazonaws.licensemanager#Long": {
```

```
    "type": "long",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummary": {
    "type": "structure",
    "members": {
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
            }
        },
        "AssociationCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {
    "type": "integer",
    "traits": {
        "smithy.api#box": {},
        "smithy.api#range": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
```

```
                "min": 0,
                "max": 3
            }
        }
    },
    "com.amazonaws.licensemanager#Message": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#Metadata": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The key name.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes key/value pairs.</p>"
        }

    },
    "com.amazonaws.licensemanager#MetadataList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Metadata"
        }
    },
    "com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>There are no entitlements found for this license, or the entitlement
maximum count is reached.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
```

```
    },
    "com.amazonaws.licensemanager#OrganizationConfiguration": {
      "type": "structure",
      "members": {
        "EnableIntegration": {
          "target": "com.amazonaws.licensemanager#Boolean",

      "traits": {
            "smithy.api#documentation": "<p>Enables Organizations integration.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Configuration information for Organizations.</p>"
      }
    },
    "com.amazonaws.licensemanager#PrincipalArnList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#Arn"
      },
      "traits": {
        "smithy.api#length": {
          "min": 1,
          "max": 1
        }
      }
    },
    "com.amazonaws.licensemanager#ProductInformation": {
      "type": "structure",
      "members": {
        "ResourceType": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {

 "smithy.api#documentation": "<p>Resource type. The possible values are <code>SSM_MANAGED</code> |
<code>RDS</code>.</p>",
            "smithy.api#required": {}
          }
        },
        "ProductInformationFilterList": {
          "target": "com.amazonaws.licensemanager#ProductInformationFilterList",
          "traits": {
            "smithy.api#documentation": "<p>A Product information filter consists of a
<code>ProductInformationFilterComparator</code> which is a logical operator, a
<code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a
<code>ProductInformationFilterValue</code> that specifies the value to filter on. </p>\n        <p>Accepted values
```

for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n
Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n
Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n
<code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n \n ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information for a license configuration. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
"type": "structure",
"members": {
"ProductInformationFilterName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Filter name. ",
"smithy.api#required": {}

```
            }
          },
          "ProductInformationFilterValue": {
            "target":
"com.amazonaws.licensemanager#StringList",
            "traits": {
              "smithy.api#documentation": "<p>Filter value.</p>"
            }
          },
          "ProductInformationFilterComparator": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Logical operator.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes product information filters.</p>"
        }
      },
      "com.amazonaws.licensemanager#ProductInformationFilterList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#ProductInformationFilter"
        }
      },
      "com.amazonaws.licensemanager#ProductInformationList": {
        "type": "list",

        "member": {
          "target": "com.amazonaws.licensemanager#ProductInformation"
        }
      },
      "com.amazonaws.licensemanager#ProvisionalConfiguration": {
        "type": "structure",
        "members": {
          "MaxTimeToLiveInMinutes": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
        }
```

```
    },
    "com.amazonaws.licensemanager#RateLimitExceededException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"

      }
      },
      "traits": {
        "aws.protocols#awsQueryError": {
          "code": "RateLimitExceeded",
          "httpResponseCode": 429
        },
        "smithy.api#documentation": "<p>Too many requests have been submitted. Try again after a brief
wait.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 429
      }
    },
    "com.amazonaws.licensemanager#ReceivedMetadata": {
      "type": "structure",
      "members": {
        "ReceivedStatus": {
          "target": "com.amazonaws.licensemanager#ReceivedStatus",
          "traits": {
            "smithy.api#documentation": "<p>Received status.</p>"
          }
        },
        "ReceivedStatusReason": {
          "target": "com.amazonaws.licensemanager#StatusReasonMessage",
          "traits": {

      "smithy.api#documentation": "<p>Received status reason.</p>"
          }
        },
        "AllowedOperations": {
          "target": "com.amazonaws.licensemanager#AllowedOperationList",
          "traits": {
            "smithy.api#documentation": "<p>Allowed operations.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Metadata associated with received licenses and grants.</p>"
      }
    },
    "com.amazonaws.licensemanager#ReceivedStatus": {
```

```
      "type": "string",
      "traits": {
        "smithy.api#enum": [
          {
            "value": "PENDING_WORKFLOW",
            "name": "PENDING_WORKFLOW"
          },
          {
            "value": "PENDING_ACCEPT",
            "name": "PENDING_ACCEPT"
          },
           {
            "value": "REJECTED",
            "name": "REJECTED"
          },
          {
            "value": "ACTIVE",
            "name": "ACTIVE"
          },
          {
            "value": "FAILED_WORKFLOW",
            "name": "FAILED_WORKFLOW"
          },
          {
            "value": "DELETED",
            "name": "DELETED"
          },
          {
            "value": "DISABLED",
            "name": "DISABLED"
          },
          {
            "value": "WORKFLOW_COMPLETED",
            "name": "WORKFLOW_COMPLETED"
          }
        ]
      }
    },
    "com.amazonaws.licensemanager#RedirectException": {
      "type": "structure",
      "members": {

  "Location": {
          "target": "com.amazonaws.licensemanager#Location",
          "traits": {
            "smithy.api#httpHeader": "Location"
          }
        },
```

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            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 308
        }
    },
    "com.amazonaws.licensemanager#RejectGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#RejectGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#RejectGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest":
{
        "type": "structure",
```

```
    "members": {
      "GrantArn": {
        "target": "com.amazonaws.licensemanager#Arn",
        "traits": {
          "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
          "smithy.api#required": {}
        }
      }
    }
  },
  "com.amazonaws.licensemanager#RejectGrantResponse": {
    "type": "structure",
    "members": {
      "GrantArn": {
        "target": "com.amazonaws.licensemanager#Arn",
        "traits": {
          "smithy.api#documentation": "<p>Grant ARN.</p>"
        }
      },
      "Status": {
        "target": "com.amazonaws.licensemanager#GrantStatus",
        "traits": {
          "smithy.api#documentation": "<p>Grant status.</p>"

    }
      },
      "Version": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Grant version.</p>"
        }
      }
    }
  },
  "com.amazonaws.licensemanager#RenewType": {
    "type": "string",
    "traits": {
      "smithy.api#enum": [
        {
          "value": "None",
          "name": "NONE"
        },
        {
          "value": "Weekly",
          "name": "WEEKLY"
        },
        {
          "value": "Monthly",
```

"name": "MONTHLY"
}
]
}
},
"com.amazonaws.licensemanager#ReportContext": {
"type": "structure",
"members": {

"licenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details of the license configuration that this generator reports on. "
}
},
"com.amazonaws.licensemanager#ReportFrequency": {
"type": "structure",
"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "

}
},
"period": {
"target": "com.amazonaws.licensemanager#ReportFrequencyType",
"traits": {
"smithy.api#documentation": " Time period between each report. The period can be daily, weekly, or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"com.amazonaws.licensemanager#ReportFrequencyType": {
"type": "string",
"traits": {

```
        "smithy.api#enum": [
            {
                "value": "DAY",
                "name": "DAY"
            },
            {
                "value": "WEEK",
                "name": "WEEK"
            },
            {
                "value": "MONTH",

        "name": "MONTH"
            }
        ]
    }
},
"com.amazonaws.licensemanager#ReportGenerator": {
    "type": "structure",
    "members": {
        "ReportGeneratorName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the report generator.</p>"
            }
        },
        "ReportType": {
            "target": "com.amazonaws.licensemanager#ReportTypeList",
            "traits": {
                "smithy.api#documentation": "<p>Type of reports that are generated.</p>"
            }
        },
        "ReportContext": {
            "target": "com.amazonaws.licensemanager#ReportContext",
            "traits": {
                "smithy.api#documentation": "<p>License configuration type for this generator.</p>"
             }
        },
        "ReportFrequency": {
            "target": "com.amazonaws.licensemanager#ReportFrequency",
            "traits": {
                "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
            }
        },
        "LicenseManagerReportGeneratorArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>"
```

}
},
"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}
},
"LastRunFailureReason": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Failure message for the last report generation attempt. "
}
},
"LastReportGenerationTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the last report was generated at. "
}
},
"ReportCreatorAccount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Web Services account ID used to create the report generator. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the report was created. "
}
},

```
        "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
                "smithy.api#documentation": "<p>Tags associated with the report generator.</p>"
            }
        }
    },

"traits": {
        "smithy.api#documentation": "<p>Describe the details of a report generator.</p>"
    }
  },
  "com.amazonaws.licensemanager#ReportGeneratorList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportGenerator"
    }
  },
  "com.amazonaws.licensemanager#ReportGeneratorName": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 100
        }
    }
  },
  "com.amazonaws.licensemanager#ReportType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "LicenseConfigurationSummaryReport",
                "name": "LICENSE_CONFIGURATION_SUMMARY_REPORT"
            },
            {
                "value": "LicenseConfigurationUsageReport",
                 "name": "LICENSE_CONFIGURATION_USAGE_REPORT"
            }
        ]
    }
  },
  "com.amazonaws.licensemanager#ReportTypeList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportType"
    }
  },
```

```
    "com.amazonaws.licensemanager#ResourceInventory": {
        "type": "structure",
        "members": {
            "ResourceId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
             "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "Platform": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform of the resource.</p>"
                }
            },
            "PlatformVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
                }
            },
            "ResourceOwningAccountId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>ID of the account that owns the resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ResourceInventoryList": {
        "type": "list",
        "member": {
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"target": "com.amazonaws.licensemanager#ResourceInventory"
}
},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ResourceLimitExceeded",
"httpResponseCode": 400
},
"smithy.api#documentation": " Your resource limits have
been exceeded. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidResource.NotFound",
"httpResponseCode": 400
},
"smithy.api#documentation": " The resource cannot be found. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#ResourceType": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "EC2_INSTANCE",
"name": "EC2_INSTANCE"
},
{
"value": "EC2_HOST",

"name": "EC2_HOST"
},
{
"value": "EC2_AMI",
"name": "EC2_AMI"
},
{
"value": "RDS",
"name": "RDS"
},
{
"value": "SYSTEMS_MANAGER_MANAGED_INSTANCE",
"name": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
}
]
}
},
"com.amazonaws.licensemanager#S3Location": {
"type": "structure",
"members": {
"bucket": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the S3 bucket
reports are published to. "
}
},
"keyPrefix": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Prefix of the S3 bucket reports are published to. "
}
}
},
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published
to. "
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {

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            "code": "InternalError",
            "httpResponseCode": 500
          },
          "smithy.api#documentation":
"<p>The server experienced an internal error. Try again.</p>",
          "smithy.api#error": "server",
          "smithy.api#httpError": 500
        }
      },
      "com.amazonaws.licensemanager#SignedToken": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 4096
          }
        }
      },
      "com.amazonaws.licensemanager#StatusReasonMessage": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 0,
            "max": 400
          },
          "smithy.api#pattern": "^[\\s\\S]+$"
        }
      },
      "com.amazonaws.licensemanager#String": {
        "type": "string"
      },
      "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#String"

       }
      },
      "com.amazonaws.licensemanager#Tag": {
        "type": "structure",
        "members": {
          "Key": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Tag key.</p>"
            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
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                "traits": {
                    "smithy.api#documentation": "<p>Tag value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#TagList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Tag"
        }
    },
    "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },

  {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
```

```
        "traits": {
            "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>One or more tags.</p>",
                    "smithy.api#required":
 {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
            "TokenType": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>"
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"ExpirationTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Token expiration time, in ISO8601-UTC format. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller. "
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the roles included in the token. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a token. "
}
},
"com.amazonaws.licensemanager#TokenList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#TokenData"
}
},
"com.amazonaws.licensemanager#TokenString": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 4096
},
"smithy.api#pattern": "^\\S+$"

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        }
    },
    "com.amazonaws.licensemanager#TokenType":
{
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "REFRESH_TOKEN",
                    "name": "REFRESH_TOKEN"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The digital signature method is unsupported. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#UntagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UntagResourceRequest"
         },
        "output": {
            "target": "com.amazonaws.licensemanager#UntagResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Removes the specified tags from the specified license
configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#UntagResourceRequest":
 {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "TagKeys": {
                "target": "com.amazonaws.licensemanager#TagKeyList",
                "traits": {
                    "smithy.api#documentation": "<p>Keys identifying the tags to remove.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#UntagResourceResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfiguration": {

        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseConfigurationStatus": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
                "traits": {
                    "smithy.api#documentation": "<p>New status of the license configuration.</p>"
                }
            },
            "LicenseRules": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>New license rule. The only rule that you can add after you create a
license\n        configuration is licenseAffinityToHost.</p>"
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>New number of licenses managed by the license
```

configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}

},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"

},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates a report generator. \n After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated. "

}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to update. ",
"smithy.api#required": {}
}
},
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {

"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types are supported: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " The report context. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse": {
"type": "structure",

"members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#InvalidResourceStateException"

},
{
"target": "com.amazonaws.licensemanager#LicenseUsageException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Adds or removes the specified license configurations for the specified Amazon Web Services resource. \n You can update the license specifications of AMIs, instances, and hosts.\n You cannot update the license specifications for launch templates and CloudFormation templates, \n as they send license configurations to the operation that creates the resource. "
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon Web Services

resource. ",
"smithy.api#required": {}
}
},
"AddLicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " ARNs of the license configurations to add. "
}
},
"RemoveLicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " ARNs of the license configurations to remove. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {

"smithy.api#documentation": " Updates License Manager settings for the current Region. "
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
"type": "structure",
"members": {
"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon S3 bucket where the License Manager information is stored. "
}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Enables integration with Organizations for cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Activates cross-account discovery. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UsageOperation": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
}
}

```
        },
        "com.amazonaws.licensemanager#ValidationException": {
            "type": "structure",
            "members": {
                "Message": {
                    "target": "com.amazonaws.licensemanager#Message"
                }
            },
            "traits": {
                "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
                "smithy.api#error": "client",
                "smithy.api#httpError": 400
            }
        }
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {
```

```
 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string
```

```
// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

//
Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err
```

```
 != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return
 nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
```

```
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter
```

```
 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
```

```
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
 err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
```

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {
```

```
 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
```

```
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

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```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
```

```
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
```

```
 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if
 err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
```

```
 err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}
```

1.4106 smithy-go 1.11.1

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1.4107 aws-sdk-go-v2-feature-ec2-imds 1.12.1

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```
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package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
```

```
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
```

```
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
```

```
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
 nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata
```

```
 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
```

```
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
```

```
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack,
```

```
 options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil
 {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
```

```
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
     - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
       with:
         python-version: ${{ matrix.python-version }}
     # ScanCode
     - name: Self-configure scancode
       working-directory: ./scancode-toolkit
       run: ./scancode --help
     - name: Run Scan code on target
       run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
     - name: Run Scan code on pr ref
```

```
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
```

```
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
Information about the license.
LicenseMetadata []types.Metadata
```

```
 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
```

```
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
```

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {
```

```
 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
```

```
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
 middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
```

```
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
```

```
err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
```

```
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}
```

AWS SDK for Go

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```
{
   "smithy": "1.0",
   "metadata": {
       "suppressions": [
           {
               "id": "HttpMethodSemantics",
               "namespace": "*"
           },
           {
               "id": "HttpResponseCodeSemantics",
               "namespace": "*"
           },
           {
               "id": "PaginatedTrait",
               "namespace": "*"
           },
           {
               "id": "HttpHeaderTrait",
               "namespace": "*"
           },
```

```
        {
          "id": "HttpUriConflict",
          "namespace": "*"
        },
        {
          "id": "Service",
          "namespace": "*"
        }
      ]
    },
    "shapes": {
      "com.amazonaws.licensemanager#AWSLicenseManager": {
        "type": "service",
        "version": "2018-08-01",
        "operations": [
          {
            "target": "com.amazonaws.licensemanager#AcceptGrant"
          },

 {
            "target": "com.amazonaws.licensemanager#CheckInLicense"
          },
          {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
          },
          {
            "target": "com.amazonaws.licensemanager#CheckoutLicense"
          },
          {
            "target": "com.amazonaws.licensemanager#CreateGrant"
          },
          {
            "target": "com.amazonaws.licensemanager#CreateGrantVersion"
          },
          {
            "target": "com.amazonaws.licensemanager#CreateLicense"
          },
          {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
          },
          {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
          },
          {
            "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
           },
          {
            "target": "com.amazonaws.licensemanager#CreateLicenseVersion"
```

```
    },
    {
      "target": "com.amazonaws.licensemanager#CreateToken"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteToken"
    },
    {
      "target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

  },
    {
      "target": "com.amazonaws.licensemanager#GetAccessToken"
    },
    {
      "target": "com.amazonaws.licensemanager#GetGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseUsage"
    },
    {
      "target": "com.amazonaws.licensemanager#GetServiceSettings"
    },
    {
```

"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#ListDistributedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
"target": "com.amazonaws.licensemanager#ListLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

"target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListResourceInventory"
},
{
"target": "com.amazonaws.licensemanager#ListTagsForResource"
},
{
"target": "com.amazonaws.licensemanager#ListTokens"
},
{
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#RejectGrant"
},

```
            {
                "target": "com.amazonaws.licensemanager#TagResource"
            },
            {
                "target": "com.amazonaws.licensemanager#UntagResource"
            },
            {
                "target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
            },
            {
                "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
            },
            {
                "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
            },
            {
                "target": "com.amazonaws.licensemanager#UpdateServiceSettings"
            }
        ],
        "traits": {
            "aws.api#service": {
                "sdkId": "License Manager",
                "arnNamespace": "license-manager",
                "cloudFormationName": "LicenseManager",
                "cloudTrailEventSource": "licensemanager.amazonaws.com",
                "endpointPrefix":
 "license-manager"
            },
            "aws.auth#sigv4": {
                "name": "license-manager"
            },
            "aws.protocols#awsJson1_1": {},
            "smithy.api#documentation": "<p>License Manager makes it easier to manage licenses from software
vendors across multiple \n        Amazon Web Services accounts and on-premises servers.</p>",
            "smithy.api#title": "AWS License Manager",
            "smithy.api#xmlNamespace": {
                "uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
            }
        }
    },
    "com.amazonaws.licensemanager#AcceptGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#AcceptGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
        },
```

```
        "errors": [
            {

          "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantRequest":
{
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
```

```
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant
status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#AccessDeniedException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "ServiceAccessDenied",
            "httpResponseCode": 401
        },
        "smithy.api#documentation": "<p>Access to resource denied.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 401
    }
},
"com.amazonaws.licensemanager#AllowedOperation":
{
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "CreateGrant",
                "name": "CREATE_GRANT"
            },
            {
                "value": "CheckoutLicense",
                "name": "CHECKOUT_LICENSE"
            },
            {
```

```
                "value": "CheckoutBorrowLicense",
                "name": "CHECKOUT_BORROW_LICENSE"
            },
            {
                "value": "CheckInLicense",
                "name": "CHECK_IN_LICENSE"
            },
            {
                "value": "ExtendConsumptionLicense",
                "name": "EXTEND_CONSUMPTION_LICENSE"
            },
            {
                "value": "ListPurchasedLicenses",
                "name": "LIST_PURCHASED_LICENSES"
            },
            {
                "value": "CreateToken",
                "name": "CREATE_TOKEN"
            }
        ]
    }
},
"com.amazonaws.licensemanager#AllowedOperationList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#AllowedOperation"
    },
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 7
        }
    }
},
"com.amazonaws.licensemanager#Arn": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 2048
        },
        "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
    }
},
"com.amazonaws.licensemanager#ArnList": {
    "type": "list",
    "member": {
```

"target": "com.amazonaws.licensemanager#Arn"
}
},
"com.amazonaws.licensemanager#AuthorizationException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "AuthorizationFailure",
"httpResponseCode": 403
},
"smithy.api#documentation": " The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n policy associated with this account. ",
"smithy.api#error": "client",
"smithy.api#httpError": 403
}
},
"com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
"type": "structure",
"members": {
"LastRunTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time that automated discovery last ran. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes automated discovery. "
}
},
"com.amazonaws.licensemanager#Boolean": {
"type": "boolean"
},
"com.amazonaws.licensemanager#BorrowConfiguration": {
"type": "structure",
"members": {
"AllowEarlyCheckIn": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether early check-ins are allowed. ",
"smithy.api#required": {}
}

```
        },
        "MaxTimeToLiveInMinutes": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
    }
},
"com.amazonaws.licensemanager#BoxBoolean": {
    "type": "boolean",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#BoxInteger": {
    "type": "integer",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#BoxLong": {

"type": "long",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#CheckInLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
```

"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks in the specified license. Check in a license when it is no longer in use. "
}
},
"com.amazonaws.licensemanager#CheckInLicenseRequest": {
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",

"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
}
}
},
"com.amazonaws.licensemanager#CheckInLicenseResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicense": {
"type": "operation",

"input": {
"target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks out the specified license for offline use. "
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {

"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The license must use the borrow consumption configuration. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. Partial checkouts are not supported. ",
"smithy.api#required": {}
}
},
"DigitalSignatureMethod": {
"target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
"traits": {
"smithy.api#documentation": " Digital signature method. The possible value is JSON Web Signature (JWS) algorithm PS384.\n For more information, see RFC 7518 Digital Signature with RSASSA-PSS. ",
"smithy.api#required": {}
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
}

```
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",

"traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
          }
        },
        "LicenseConsumptionToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License consumption token.</p>"
          }
        },
        "EntitlementsAllowed": {
          "target": "com.amazonaws.licensemanager#EntitlementDataList",
          "traits": {
            "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
          }
        },
        "NodeId": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Node ID.</p>"
          }
        },
        "SignedToken": {

       "target": "com.amazonaws.licensemanager#SignedToken",
          "traits": {
            "smithy.api#documentation": "<p>Signed token.</p>"
          }
        },
        "IssuedAt": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
          "traits": {
            "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
          }
        },
        "Expiration": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
          "traits": {
            "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
          }
        },
```

"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation":
" Information about constraints. "
}
}
}
},
"com.amazonaws.licensemanager#CheckoutLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutLicenseRequest": {
        "type": "structure",
        "members": {
            "ProductSKU":
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "CheckoutType": {
                "target": "com.amazonaws.licensemanager#CheckoutType",
                "traits": {
                    "smithy.api#documentation": "<p>Checkout type.</p>",
                    "smithy.api#required": {}
                }
            },
            "KeyFingerprint": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Key fingerprint identifying the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                 "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",
                    "smithy.api#required": {}
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
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"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Node ID. "
}
}
}
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
"type": "structure",
"members": {
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation":
" Allowed license entitlements. "
}
},
"SignedToken": {
"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"IssuedAt": {

"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",

"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the checkout license. "
}
}
}
},
"com.amazonaws.licensemanager#CheckoutType": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "PROVISIONAL",
"name": "PROVISIONAL"
},
{
"value": "PERPETUAL",
"name": "PERPETUAL"
}
]
}
},
"com.amazonaws.licensemanager#ClientRequestToken":
{
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 36
}
}
},
"com.amazonaws.licensemanager#ClientToken": {
"type": "string",
"traits": {

"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#ConflictException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ConflictException",
"httpResponseCode": 409
},
"smithy.api#documentation": " There
was a conflict processing the request. Try your request again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 409
}
},
"com.amazonaws.licensemanager#ConsumedLicenseSummary": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Resource type of the resource consuming a license. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about license consumption. "
}
},
"com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
"type": "list",
"member": {

"target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
}
},
"com.amazonaws.licensemanager#ConsumptionConfiguration": {
"type": "structure",
"members": {
"RenewType": {
"target": "com.amazonaws.licensemanager#RenewType",
"traits": {
"smithy.api#documentation": " Renewal frequency. "
}
},
"ProvisionalConfiguration": {
"target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"BorrowConfiguration": {

"target": "com.amazonaws.licensemanager#BorrowConfiguration",
"traits": {
"smithy.api#documentation": " Details about a borrow configuration. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a consumption configuration. "
}
},
"com.amazonaws.licensemanager#CreateGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of
license entitlements with specific Amazon Web Services accounts.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantRequest": {
        "type": "structure",
        "members": {

  "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },

        "Principals": {
                "target": "com.amazonaws.licensemanager#PrincipalArnList",
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            "traits": {
                "smithy.api#documentation": "<p>The grant principals.</p>",
                "smithy.api#required": {}
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "AllowedOperations": {
            "target": "com.amazonaws.licensemanager#AllowedOperationList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed operations for the grant.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanager#CreateGrantResponse":
{
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CreateGrantVersion": {
    "type": "operation",
    "input": {
```

"target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a new version of the specified grant. "
}
},
"com.amazonaws.licensemanager#CreateGrantVersionRequest": {
"type": "structure",
"members": {
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",

"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the grant. "
}
}
}
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",

"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New version of the grant. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a license. "
}
},

"com.amazonaws.licensemanager#CreateLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Creates a license configuration. \n A license configuration is an abstraction of a customer license
agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a \n license must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. ",
"smithy.api#required": {}
}
},
"Description": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension used to track the license inventory. ",
"smithy.api#required": {}
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {

"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows. \n \n \n \n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n <code>licenseAffinityToHost</code> |\n <code>maximumCores</code> | <code>minimumCores</code>\n \n \n \n \n <code>Instances</code> dimension: <code>allowedTenancy</code> | \n <code>maximumCores</code> | <code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n \n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n <code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code>\n \n \n \n \n <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n <code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>. "
}

```
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Tags to add to the license configuration.</p>"
                }
            },
            "DisassociateWhenNotFound": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
                }
            },
            "ProductInformationList": {
                "target": "com.amazonaws.licensemanager#ProductInformationList",
                "traits":
 {
                    "smithy.api#documentation": "<p>Product information.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest":
 {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting
from. \n        For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the AWS
CLI</a> in the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            },
            "DestinationLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting to.
For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the AWS
CLI</a> in the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
```

```
            }
        }
    }
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
    "type": "structure",
    "members": {
        "LicenseConversionTaskId": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
             "traits": {
                "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
         },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
```

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "ReportGeneratorName": {
                "target":
 "com.amazonaws.licensemanager#ReportGeneratorName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>",
                    "smithy.api#required": {}
                }
            },
            "Type": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports to generate. The following report types an be
generated:</p>\n        <ul>\n            <li>\n                <p>License configuration report - Reports the number and
details of consumed licenses for a license configuration.</p>\n            </li>\n            <li>\n                <p>Resource
report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n            </li>\n
</ul>",
                    "smithy.api#required": {}
                }
            },

        "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
                    "smithy.api#documentation": "<p>Defines the type of license configuration the report generator
tracks.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportFrequency": {
                "target": "com.amazonaws.licensemanager#ReportFrequency",
                "traits": {
                    "smithy.api#documentation": "<p>Frequency by which reports are generated.  Reports can be
generated daily, monthly, or weekly.</p>",
                    "smithy.api#required": {}
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientRequestToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide
```

to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits":
{
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the new report generator. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseRequest": {
"type": "structure",
"members": {
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. ",
"smithy.api#required": {}
}
},

"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits": {
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region for the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation":
" Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {

"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}

}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersion":

```
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
             },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
```

"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits": {
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation":
" Home Region of the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",

"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target":
"com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. "
}
},

"Version": {
"target": "com.amazonaws.licensemanager#String",

```
            "traits": {
                "smithy.api#documentation": "<p>New version of the license.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CreateToken": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateTokenResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },

  {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
```

"smithy.api#documentation": " Creates a long-lived token. \n A refresh token is a JWT token used to get an access token. With an access token,\n you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n call License Manager to manage the specified license. "
}
},
"com.amazonaws.licensemanager#CreateTokenRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n JWT token. ",
"smithy.api#required": {}
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n License Manager does not check whether the roles are in use. "
}
},
"ExpirationInDays": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Token expiration, in days, counted from token creation. The default is 365 days. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller to be included in the JWT token. The data is mapped\n to the amr claim of the JWT token. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Idempotency token, valid for 10 minutes. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CreateTokenResponse": {

"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. "
}
},
"TokenType": {
"target": "com.amazonaws.licensemanager#TokenType",
"traits": {
"smithy.api#documentation": " Token type. "
}
},
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token,
encoded as a JWT token. "
}
}
}
},
"com.amazonaws.licensemanager#DateTime": {
"type": "timestamp"
},
"com.amazonaws.licensemanager#DatetimeRange": {
"type": "structure",
"members": {
"Begin": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Start of the time range. ",
"smithy.api#required": {}
}
},
"End": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " End of the time range. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a time range, in ISO8601-UTC
format. "
}
},

```
"com.amazonaws.licensemanager#DeleteGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

  },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Deletes the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#DeleteGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "StatusReason": {
            "target": "com.amazonaws.licensemanager#StatusReasonMessage",
```

"traits": {

"smithy.api#documentation": " The Status reason for the delete request. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the grant. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#DeleteGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation":
" Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
}
},
"com.amazonaws.licensemanager#DeleteLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"

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            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license configuration.</p> \n          <p>You cannot delete a license configuration
 that is in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

        "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified report generator.</p>\n        <p>This action
deletes the report generator, which stops it from generating future reports.\n        The action cannot be reversed. It
has no effect on the previous reports from this generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to be
deleted.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },

  "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#DeleteLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
```

"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#DeleteLicenseResponse":
{
"type": "structure",
"members": {
"Status": {
"target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"DeletionDate": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date when the license is deleted. "
}
}
}
},
"com.amazonaws.licensemanager#DeleteToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteTokenResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
        }

    },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#DigitalSignatureMethod": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "JWT_PS384",
                    "name": "JWT_PS384"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#Entitlement": {
        "type": "structure",
```

"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement resource. Use only if the unit is None. "
}
},
"MaxCount": {
"target": "com.amazonaws.licensemanager#Long",
"traits": {
"smithy.api#documentation": " Maximum entitlement count. Use if the unit is not None. "
}
},
"Overage": {
"target": "com.amazonaws.licensemanager#BoxBoolean",

"traits": {
"smithy.api#documentation": " Indicates whether overages are allowed. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementUnit",
"traits": {
"smithy.api#documentation": " Entitlement unit. ",
"smithy.api#required": {}
}
},
"AllowCheckIn": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether check-ins are allowed. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a resource entitled for use with a license. "
}
},
"com.amazonaws.licensemanager#EntitlementData": {
"type": "structure",

```
        "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement data name.</p>",
              "smithy.api#required": {}
            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement data value.</p>"
            }
          },
          "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement data unit.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Data associated
with an entitlement resource.</p>"
        }
      },
      "com.amazonaws.licensemanager#EntitlementDataList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#EntitlementData"
        }
      },
      "com.amazonaws.licensemanager#EntitlementDataUnit": {
        "type": "string",
        "traits": {
          "smithy.api#enum": [
            {
              "value": "Count",
              "name": "COUNT"
            },
            {
              "value": "None",
              "name": "NONE"
            },
            {
              "value": "Seconds",
              "name": "SECONDS"
```

```
            },
            {
              "value": "Microseconds",
              "name": "MICROSECONDS"
            },
            {

"value": "Milliseconds",
              "name": "MILLISECONDS"
            },
            {
              "value": "Bytes",
              "name": "BYTES"
            },
            {
              "value": "Kilobytes",
              "name": "KILOBYTES"
            },
            {
              "value": "Megabytes",
              "name": "MEGABYTES"
            },
            {
              "value": "Gigabytes",
              "name": "GIGABYTES"
            },
            {
              "value": "Terabytes",
              "name": "TERABYTES"
            },
            {
              "value": "Bits",
              "name": "BITS"
            },
            {
              "value": "Kilobits",
              "name": "KILOBITS"
             },
            {
              "value": "Megabits",
              "name": "MEGABITS"
            },
            {
              "value": "Gigabits",
              "name": "GIGABITS"
            },
            {
              "value": "Terabits",
```

"name": "TERABITS"
},
{
"value": "Percent",
"name": "PERCENT"
},
{
"value": "Bytes/Second",
"name": "BYTES_PER_SECOND"
},
{
"value": "Kilobytes/Second",
"name": "KILOBYTES_PER_SECOND"
},
{
"value": "Megabytes/Second",
"name": "MEGABYTES_PER_SECOND"

},
{
"value": "Gigabytes/Second",
"name": "GIGABYTES_PER_SECOND"
},
{
"value": "Terabytes/Second",
"name": "TERABYTES_PER_SECOND"
},
{
"value": "Bits/Second",
"name": "BITS_PER_SECOND"
},
{
"value": "Kilobits/Second",
"name": "KILOBITS_PER_SECOND"
},
{
"value": "Megabits/Second",
"name": "MEGABITS_PER_SECOND"
},
{
"value": "Gigabits/Second",
"name": "GIGABITS_PER_SECOND"
},
{
"value": "Terabits/Second",

"name": "TERABITS_PER_SECOND"
},

```
            {
                "value": "Count/Second",
                "name": "COUNT_PER_SECOND"
            }
        ]
    }
},
"com.amazonaws.licensemanager#EntitlementList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Entitlement"
    }
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#EntitlementUnit": {

 "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "Count",
                "name": "COUNT"
            },
            {
                "value": "None",
                "name": "NONE"
            },
            {
                "value": "Seconds",
                "name": "SECONDS"
            },
            {
                "value": "Microseconds",
                "name": "MICROSECONDS"
            },
            {
```

"value": "Milliseconds",
"name": "MILLISECONDS"
},
{
"value": "Bytes",
"name": "BYTES"
},
{
"value": "Kilobytes",
"name": "KILOBYTES"

},
{
"value": "Megabytes",
"name": "MEGABYTES"
},
{
"value": "Gigabytes",
"name": "GIGABYTES"
},
{
"value": "Terabytes",
"name": "TERABYTES"
},
{
"value": "Bits",
"name": "BITS"
},
{
"value": "Kilobits",
"name": "KILOBITS"
},
{
"value": "Megabits",
"name": "MEGABITS"
},
{
"value": "Gigabits",
"name": "GIGABITS"
},
{
"value": "Terabits",
"name": "TERABITS"
},
{
"value": "Percent",
"name": "PERCENT"
},

```
            {
              "value": "Bytes/Second",
              "name": "BYTES_PER_SECOND"
            },
            {
              "value": "Kilobytes/Second",
              "name": "KILOBYTES_PER_SECOND"
            },
            {
              "value": "Megabytes/Second",
              "name": "MEGABYTES_PER_SECOND"
            },
            {
              "value": "Gigabytes/Second",
              "name": "GIGABYTES_PER_SECOND"
            },
            {
              "value": "Terabytes/Second",
              "name": "TERABYTES_PER_SECOND"
            },
            {

    "value": "Bits/Second",
              "name": "BITS_PER_SECOND"
            },
            {
              "value": "Kilobits/Second",
              "name": "KILOBITS_PER_SECOND"
            },
            {
              "value": "Megabits/Second",
              "name": "MEGABITS_PER_SECOND"
            },
            {
              "value": "Gigabits/Second",
              "name": "GIGABITS_PER_SECOND"
            },
            {
              "value": "Terabits/Second",
              "name": "TERABITS_PER_SECOND"
            },
            {
              "value": "Count/Second",
              "name": "COUNT_PER_SECOND"
            }
          ]
        }
      },
```

```
    "com.amazonaws.licensemanager#EntitlementUsage": {
        "type": "structure",

"members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ConsumedValue": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxCount": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
                }
            },
            "Unit": {
                "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
                 "traits": {
                    "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementUsageList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
        },
        "output": {
```

"target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Extends the expiration date for license consumption. "
}
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",
"smithy.api#required": {}
}
},
"DryRun": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#documentation": " Checks whether you have the required permissions for the action, without actually making the request. Provides an error response if you do not have the required permissions. "
}
}
}

```
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
    "type": "structure",

  "members": {
        "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
            }
        },
        "Expiration": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#FailedDependencyException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        },
        "ErrorCode": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },

 "traits": {
        "aws.protocols#awsQueryError": {
            "code": "FailedDependency",
            "httpResponseCode": 424
        },
        "smithy.api#documentation": "<p>A dependency required to run the API is missing.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 424
    }
},
"com.amazonaws.licensemanager#Filter": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#FilterName",
            "traits": {
                "smithy.api#documentation": "<p>Name of the filter. Filter names are case-sensitive.</p>"
            }
```

```
            },
            "Values": {
                "target": "com.amazonaws.licensemanager#FilterValues",
                "traits": {
                    "smithy.api#documentation": "<p>Filter values. Filter
values are case-sensitive.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A filter name and value pair that is used to return more specific results
from a\n        describe operation. Filters can be used to match a set of resources by specific criteria,\n        such as
tags, attributes, or IDs.</p>"
        }
    },
    "com.amazonaws.licensemanager#FilterLimitExceededException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "FilterLimitExceeded",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
            "smithy.api#error":
"client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#FilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Filter"
        }
    },
    "com.amazonaws.licensemanager#FilterName": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#FilterValue": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#FilterValues": {
        "type": "list",
        "member": {
```

"target": "com.amazonaws.licensemanager#FilterValue",
"traits": {
"smithy.api#xmlName": "item"
}
}
},
"com.amazonaws.licensemanager#Filters": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter",
"traits": {
"smithy.api#xmlName":
"item"
}
}
},
"com.amazonaws.licensemanager#GetAccessToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"

}
],
"traits": {
"smithy.api#documentation": " Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access tokens\n are valid for one hour. "
}
},
"com.amazonaws.licensemanager#GetAccessTokenRequest": {

"type": "structure",
"members": {
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token, encoded as a JWT token. ",
"smithy.api#required": {}
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Token properties to validate against those present in the JWT token. "
}

}
}
},
"com.amazonaws.licensemanager#GetAccessTokenResponse": {
"type": "structure",
"members": {
"AccessToken": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Temporary access token. "
}
}
}
},
"com.amazonaws.licensemanager#GetGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},

```
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
                "smithy.api#documentation": "<p>Grant details.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",
```

```
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license
configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId":
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            },
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>"
                }
            },
```

"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation":
" Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension for which the licenses are counted. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of available licenses. "
}
},
"LicenseCountHardLimit": {

"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Sets the number of available licenses as a hard limit. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses assigned to resources. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License configuration status. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the

owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList":
{
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is
uninstalled. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
"type":
"operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets
information about the specified license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license type conversion task to retrieve information
on.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license
type conversion task.</p>"
                }
```

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            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the resources the license
conversion task is associated with.</p>"
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license type converted from.</p>"
                }
            },
            "DestinationLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license type converted to.</p>"

        }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
                }
            },
            "StartTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
                }
            },
            "LicenseConversionTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                 "traits": {
                    "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
                }
            },
            "EndTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
```

"smithy.api#documentation": " Time at which the license type conversion task was completed. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified report generator. "
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {

"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"ReportGenerator": {
"target": "com.amazonaws.licensemanager#ReportGenerator",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic
reports about your license configurations. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseResponse": {
"type": "structure",
"members": {
"License": {
"target":
"com.amazonaws.licensemanager#License",
"traits": {
"smithy.api#documentation": " License details. "
}

```
        }
    }
},
"com.amazonaws.licensemanager#GetLicenseUsage": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#GetLicenseUsageRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanager#GetLicenseUsageResponse":
```

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{
        "type": "structure",
        "members": {
            "LicenseUsage": {
                "target": "com.amazonaws.licensemanager#LicenseUsage",
                "traits": {
                    "smithy.api#documentation": "<p>License usage details.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },

 {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

"smithy.api#documentation": " Regional S3 bucket path for storing reports, license trail event data, discovery data,\n and so on. "
}

},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " SNS topic configured to receive notifications from License Manager. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Indicates whether Organizations is integrated with License Manager for\n cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether cross-account discovery is enabled. "
}

},
"LicenseManagerResourceShareArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource share. The License Manager management account \n provides member accounts with access to this share. "
}
}
}
},
"com.amazonaws.licensemanager#Grant": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"ParentArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Parent ARN. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. ",
"smithy.api#required": {}
}
},
"GranteePrincipalArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " The grantee principal ARN. ",

"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"Version": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. ",
"smithy.api#required": {}
}
},
"GrantedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Granted operations. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes a grant. "
}
},
"com.amazonaws.licensemanager#GrantList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Grant"
}
},
"com.amazonaws.licensemanager#GrantStatus": {
"type": "string",

"traits": {
"smithy.api#enum": [
{
"value": "PENDING_WORKFLOW",
"name": "PENDING_WORKFLOW"
},
{
"value": "PENDING_ACCEPT",
"name": "PENDING_ACCEPT"
},
{
"value": "REJECTED",
"name": "REJECTED"
},
{
"value": "ACTIVE",
"name": "ACTIVE"
},
{
"value": "FAILED_WORKFLOW",

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                "name": "FAILED_WORKFLOW"
              },
              {
                "value": "DELETED",
                "name": "DELETED"
              },
              {
                "value": "PENDING_DELETE",
                "name": "PENDING_DELETE"
              },
              {
                "value": "DISABLED",
                "name": "DISABLED"
              },
              {
                "value": "WORKFLOW_COMPLETED",
                "name": "WORKFLOW_COMPLETED"
              }
            ]
          }
        },
        "com.amazonaws.licensemanager#GrantedLicense": {
          "type": "structure",
          "members": {
            "LicenseArn": {
              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
              }
            },
            "LicenseName": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>License name.</p>"
              }

        },
            "ProductName": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Product name.</p>"
              }
            },
            "ProductSKU": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Product SKU.</p>"
              }
```

```
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>Granted license issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the granted license.</p>"

        }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>Granted license status.</p>"
            }
        },
        "Validity": {
            "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {
                "smithy.api#documentation": "<p>Date and time range during which the granted license is valid, in
ISO8601-UTC format.</p>"
            }
        },
        "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Granted license beneficiary.</p>"
            }
        },
        "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
             "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>"
            }
        },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
            }
        },
        "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
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"smithy.api#documentation": " Granted license metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Creation time of the granted license. "

}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Version of the granted license. "
}
},
"ReceivedMetadata": {
"target": "com.amazonaws.licensemanager#ReceivedMetadata",
"traits": {
"smithy.api#documentation": " Granted license received metadata. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a license that is granted to a grantee. "
}
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#GrantedLicense"
}
},
"com.amazonaws.licensemanager#ISO8601DateTime":
{
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
}
},
"com.amazonaws.licensemanager#Integer": {
"type": "integer",
"traits": {

"smithy.api#box": {}
}
},
"com.amazonaws.licensemanager#InvalidParameterValueException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidParameterValueProvided",

"httpResponseCode": 400
},
"smithy.api#documentation": " One or more parameter values are not valid. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#InvalidResourceStateException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidResourceState",
"httpResponseCode": 400
},
"smithy.api#documentation": " License Manager cannot allocate a license to a resource because of its state. \n For example, you cannot allocate a license to an instance in the process of shutting\n down. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#InventoryFilter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the filter. ",
"smithy.api#required": {}

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            }
        },
        "Condition": {
            "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
            "traits": {
                "smithy.api#documentation": "<p>Condition of the filter.</p>",
                "smithy.api#required": {}
            }
        },
        "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Value
of the filter.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>An inventory filter.</p>"
    }
},
"com.amazonaws.licensemanager#InventoryFilterCondition": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "EQUALS",
                "name": "EQUALS"
            },
            {
                "value": "NOT_EQUALS",
                "name": "NOT_EQUALS"
            },
            {
                "value": "BEGINS_WITH",
                "name": "BEGINS_WITH"
            },
            {
                "value": "CONTAINS",
                "name": "CONTAINS"
            }
        ]
    }
},
"com.amazonaws.licensemanager#InventoryFilterList":
{
    "type": "list",
    "member": {
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"target": "com.amazonaws.licensemanager#InventoryFilter"
}
},
"com.amazonaws.licensemanager#Issuer": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. ",
"smithy.api#required": {}
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
}
},
"traits": {

"smithy.api#documentation": " Details about the issuer of a license. "
}
},
"com.amazonaws.licensemanager#IssuerDetails": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. "
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

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                "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
    }
},
"com.amazonaws.licensemanager#License": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License name.</p>"
            }
        },
        "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
                "smithy.api#documentation": "<p>Product name.</p>"
            }
        },
        "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product SKU.</p>"
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>License issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the license.</p>"
            }
        },
        "Status": {
```

"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "

}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " License metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License creation time. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits":
{
"smithy.api#documentation": " License version. "

```
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
    "type": "structure",
    "members": {
        "LicenseConfigurationId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
            }
        },
        "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }

  },
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the license configuration.</p>"
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
                "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
            }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {

                "smithy.api#documentation": "<p>License rules.</p>"
            }
        },
```

"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Number of available licenses as a hard limit. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "

}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the license configuration. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the license configuration's owner. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",

"traits": {
"smithy.api#documentation": " Summaries for licenses consumed by various resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {

"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource consuming licenses. "
}
},

"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was associated with the resource. "
}
},
"AmiAssociationScope":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an association with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
}
},
"com.amazonaws.licensemanager#LicenseConfigurationStatus": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "AVAILABLE",
"name": "AVAILABLE"
},
{
"value": "DISABLED",
"name": "DISABLED"
}
]
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsage": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "

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            }
        },
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Type of resource.</p>"
            }
        },
        "ResourceStatus": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

  "smithy.api#documentation": "<p>Status of the resource.</p>"
            }
        },
        "ResourceOwnerId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
            }
        },
        "AssociationTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time when the license configuration was initially associated with
the resource.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
            }
        }

    },
      "traits": {
          "smithy.api#documentation": "<p>Details about the usage of a resource associated with a license
configuration.</p>"
      }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
      "type": "list",
      "member": {
          "target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
      }
    },
    "com.amazonaws.licensemanager#LicenseConfigurations": {
```

"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfiguration"
}
},
"com.amazonaws.licensemanager#LicenseConversionContext": {
"type": "structure",
"members": {
"UsageOperation": {
"target": "com.amazonaws.licensemanager#UsageOperation",
"traits": {
"smithy.api#documentation": " The Usage operation value that corresponds
to the license type you are converting your resource from. For more information about which platforms correspond
to which usage operation values see <a href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-
info-fields.html#billing-info\">Sample data: usage operation by platform\n \n "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTask": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the license type conversion task. "
}
},
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource associated
with the license type\n conversion task. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted
from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",

"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted to. "
}
},

"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " The status of the conversion task. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was started at. "
}
},
"LicenseConversionTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " The time the usage operation value of the resource was changed. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was completed. "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTaskId": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50

```
            },
            "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
        "type":
"string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "IN_PROGRESS",
                    "name": "IN_PROGRESS"
                },
                {
                    "value": "SUCCEEDED",
                    "name": "SUCCEEDED"
                },
                {
                    "value": "FAILED",
                    "name": "FAILED"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTasks": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTask"
        }
    },
    "com.amazonaws.licensemanager#LicenseCountingType": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "vCPU",
                    "name": "VCPU"

                },
                {
                    "value": "Instance",
                    "name": "INSTANCE"
                },
                {
                    "value": "Core",
                    "name": "CORE"
                },
                {
```

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                "value": "Socket",
                "name": "SOCKET"
            }
        ]
    }
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "PENDING_DELETE",
                "name": "PENDING_DELETE"
            },
            {
                "value": "DELETED",
                "name": "DELETED"
            }
        ]
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
     "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {
    "type": "structure",
    "members": {
        "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
        },
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Resource type.</p>"
            }
        },
        "ErrorMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Error message.</p>"
```

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        }
          },
          "FailureTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Failure time.</p>"
            }
          },
          "OperationName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Name of the operation.</p>"
            }
          },
          "ResourceOwnerId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the
resource.</p>"
            }
          },
          "OperationRequestedBy": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

         "smithy.api#documentation": "<p>The requester is \"License Manager Automated Discovery\".</p>"
            }
          },
          "MetadataList": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
              "smithy.api#documentation": "<p>Reserved.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes the failure of a license operation.</p>"
        }
      },
      "com.amazonaws.licensemanager#LicenseOperationFailureList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#LicenseOperationFailure"
        }
      },
      "com.amazonaws.licensemanager#LicenseSpecification": {
        "type": "structure",
        "members": {
```

"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseSpecification"
}
},
"com.amazonaws.licensemanager#LicenseStatus": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "AVAILABLE",
"name": "AVAILABLE"
},
{
"value": "PENDING_AVAILABLE",
"name": "PENDING_AVAILABLE"
},
{
"value": "DEACTIVATED",
"name": "DEACTIVATED"
},
{
"value": "SUSPENDED",
"name": "SUSPENDED"
},
{

"value": "EXPIRED",
"name": "EXPIRED"
},
{
"value": "PENDING_DELETE",
"name": "PENDING_DELETE"
},
{

"value": "DELETED",
"name": "DELETED"
}
]
}
},
"com.amazonaws.licensemanager#LicenseUsage": {
"type": "structure",
"members": {
"EntitlementUsages": {
"target": "com.amazonaws.licensemanager#EntitlementUsageList",
"traits": {
"smithy.api#documentation": " License entitlement usages. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the entitlement usage associated with a license. "
}
},
"com.amazonaws.licensemanager#LicenseUsageException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {

"aws.protocols#awsQueryError": {
"code": "LicenseUsageFailure",
"httpResponseCode": 412
},
"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},

"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the resource associations for the specified license configuration. \n Resource associations need not consume licenses from a license configuration. \n For example, an AMI or a stopped instance might not consume a license (depending on \n the license rules). "
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",

"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationAssociations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license configuration. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

             "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants distributed for the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
        "type": "structure",
        "members": {
            "GrantArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n
        <code>LicenseArn</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>GrantStatus</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>GranteePrincipalARN</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>ProductSKU</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>LicenseIssuerName</code>\n                </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
```

"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}

```
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the license configuration operations that failed.</p>"
    }
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
    "type": "structure",
    "members": {
        "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse": {
    "type": "structure",
    "members": {
        "LicenseOperationFailureList": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
            "traits": {
                "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListLicenseConfigurations":
```

```
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },

        {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
```

```
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n                Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n                Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n
                <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement
is used. \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n
</li>\n            <li>\n                <p>\n                <code>usagelimitExceeded</code> - A Boolean value that indicates
whether the available licenses have been exceeded. \n                Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurations": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurations",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configurations.</p>"

                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasks": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
        },
```

```
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target":
"com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
        "type": "structure",
        "members": {
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                 "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>\n        Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n      </p>"
                }
            }
        }
```

```
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
      "type": "structure",
      "members": {
        "LicenseConversionTasks": {
          "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
          "traits": {
            "smithy.api#documentation": "<p>Information about the license configuration tasks for your
account.</p>"
           }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },

    {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
```

"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the report generators for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest": {
"type":
"structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported:
\n \n \n \n <code>LicenseConfigurationArn</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to
return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
"type": "structure",
"members": {
"ReportGenerators": {
"target": "com.amazonaws.licensemanager#ReportGeneratorList",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic reports about your license
configurations. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
"type": "operation",
"input":
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Describes the
license configurations for the specified resource. "
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a resource that has an
associated license configuration. ",
"smithy.api#required": {}
}

```
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",

         "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {
        "LicenseSpecifications": {
            "target": "com.amazonaws.licensemanager#LicenseSpecifications",
            "traits": {
                "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
     "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
```

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation":
"<p>Lists all versions of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum
number of results to return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
        "type": "structure",
        "members": {
            "Licenses": {
                "target": "com.amazonaws.licensemanager#LicenseList",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
```

```
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the licenses for your account.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicensesRequest": {
    "type": "structure",
    "members": {
        "LicenseArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
```

```
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n              <p>\n                <code>Beneficiary</code>\n              </p>\n
        </li>\n            <li>\n              <p>\n                <code>ProductSKU</code>\n              </p>\n            </li>\n
    <li>\n              <p>\n
        <code>Fingerprint</code>\n              </p>\n            </li>\n            <li>\n              <p>\n
<code>Status</code>\n              </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicensesResponse": {
        "type": "structure",
        "members": {
            "Licenses": {

    "target": "com.amazonaws.licensemanager#LicenseList",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrants": {
        "type": "operation",
        "input": {
```

"target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists grants that are received but not accepted. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
"type": "structure",

"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n

```
</li>\n <li>\n <p>\n <code>LicenseIssuerName</code>\n </p>\n
</li>\n <li>\n <p>\n <code>LicenseArn</code>\n </p>\n </li>\n
<li>\n <p>\n
<code>GrantStatus</code>\n </p>\n </li>\n <li>\n <p>\n
<code>GranterAccountId</code>\n </p>\n </li>\n </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
        "type": "structure",
        "members": {
          "Grants": {

          "target": "com.amazonaws.licensemanager#GrantList",
            "traits": {
              "smithy.api#documentation": "<p>Received grant details.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListReceivedLicenses": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
        },
        "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"

 },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists received licenses.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
        "type": "structure",

   "members": {
            "LicenseArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>ProductSKU</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                    <code>Status</code>\n                </p>\n            </li>\n
<li>\n                <p>\n                    <code>Fingerprint</code>\n                </p>\n            </li>\n            <li>\n
<p>\n                    <code>IssuerName</code>\n
            </p>\n            </li>\n            <li>\n                <p>\n                    <code>Beneficiary</code>\n                </p>\n
        </li>\n        </ul>"
                }
```

```
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
        "type": "structure",
        "members": {
            "Licenses": {

"target": "com.amazonaws.licensemanager#GrantedLicenseList",
                "traits": {
                    "smithy.api#documentation": "<p>Received license details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventory": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"

  },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
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            },
            {
                "target": "com.amazonaws.licensemanager#FailedDependencyException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryRequest": {

        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#InventoryFilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>account_id</code>
 - The ID of the Amazon Web Services account that owns the resource.\n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n
    <code>application_name</code> - The name of the application. \n                Logical operators are
<code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n            </li>\n            <li>\n                <p>\n
    <code>license_included</code> - The type of license included. \n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.\n                Possible values are <code>sql-server-
```

enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n \n <code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n \n \n \n <code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account). \n \n "
}
}
}
},
"com.amazonaws.licensemanager#ListResourceInventoryResponse": {
"type": "structure",
"members": {
"ResourceInventoryList": {
"target": "com.amazonaws.licensemanager#ResourceInventoryList",
"traits":
{
"smithy.api#documentation": " Information about the resources. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListTagsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the tags for the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required":
 {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the tags.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
```

```
            },
            {
                "target":
 "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
            "TokenIds": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Token IDs.</p>"
                }
            },
            "Filters": {
                "target":
 "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
    <ul>\n            <li>\n                <p>\n                    <code>LicenseArns</code>\n                </p>\n            </li>\n
</ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
```

```
            }
        }
    },
    "com.amazonaws.licensemanager#ListTokensResponse":
{
        "type": "structure",
        "members": {
            "Tokens": {
                "target": "com.amazonaws.licensemanager#TokenList",
                "traits": {
                    "smithy.api#documentation": "<p>Received token details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
```

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying license\n        consumption details by resource
 at a selected point in time. Use this action to audit the\n        current license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {

                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>resourceArn</code> - The ARN of the license configuration resource.\n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>).
 \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>resourceAccount</code> - The ID of the account that owns the resource. \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
                }
            }
```

```
    }
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
    "type": "structure",
    "members": {
        "LicenseConfigurationUsageList": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license configurations.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#Location": {
    "type": "string"
},
"com.amazonaws.licensemanager#Long": {
    "type": "long",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummary": {
    "type": "structure",
    "members": {
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
            }
        },
        "AssociationCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                 "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
},
```

"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {
    "type": "integer",
    "traits": {
        "smithy.api#box": {},
        "smithy.api#range": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": " The key name. "
            }
        },
        "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": " The value. "
            }
        }
    },
    "traits": {

"smithy.api#documentation": " Describes key/value pairs. "
}

},
"com.amazonaws.licensemanager#MetadataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Metadata"
}
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#OrganizationConfiguration": {
"type": "structure",
"members": {
"EnableIntegration": {
"target": "com.amazonaws.licensemanager#Boolean",

"traits": {
"smithy.api#documentation": " Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {
"min": 1,

"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> -

The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n
<code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n
<code>ols</code> | \n <code>olap</code>. \n \n ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information for a license configuration. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
"type": "structure",
"members": {
"ProductInformationFilterName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Filter name. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterValue": {
"target":
"com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " Filter value. "
}
},
"ProductInformationFilterComparator": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Logical operator. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information filters. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ProductInformationFilter"

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        }
    },
    "com.amazonaws.licensemanager#ProductInformationList": {
        "type": "list",

       "member": {
            "target": "com.amazonaws.licensemanager#ProductInformation"
        }
    },
    "com.amazonaws.licensemanager#ProvisionalConfiguration": {
        "type": "structure",
        "members": {
            "MaxTimeToLiveInMinutes": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#RateLimitExceededException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"

       }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "RateLimitExceeded",
                "httpResponseCode": 429
            },
            "smithy.api#documentation": "<p>Too many requests have been submitted. Try again after a brief
wait.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 429
        }
    },
    "com.amazonaws.licensemanager#ReceivedMetadata": {
        "type": "structure",
        "members": {
            "ReceivedStatus": {
                "target": "com.amazonaws.licensemanager#ReceivedStatus",
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"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {

"smithy.api#documentation": " Received status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations. "
}
}
},
"traits": {
"smithy.api#documentation": " Metadata associated with received licenses and grants. "
}
},
"com.amazonaws.licensemanager#ReceivedStatus": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "PENDING_WORKFLOW",
"name": "PENDING_WORKFLOW"
},
{
"value": "PENDING_ACCEPT",
"name": "PENDING_ACCEPT"
},
{
"value": "REJECTED",
"name": "REJECTED"
},
{
"value": "ACTIVE",
"name": "ACTIVE"
},
{
"value": "FAILED_WORKFLOW",
"name": "FAILED_WORKFLOW"
},
{
"value": "DELETED",

"name": "DELETED"
},
{
"value": "DISABLED",
"name": "DISABLED"
},
{
"value": "WORKFLOW_COMPLETED",
"name": "WORKFLOW_COMPLETED"
}
]
}
},
"com.amazonaws.licensemanager#RedirectException": {
"type": "structure",
"members": {

"Location": {
"target": "com.amazonaws.licensemanager#Location",
"traits": {
"smithy.api#httpHeader": "Location"
}
},
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " This is not the correct Region for the resource. Try again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 308
}
},
"com.amazonaws.licensemanager#RejectGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#RejectGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#RejectGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

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            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest":
{
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
```

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            }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#RenewType": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "None",
                    "name": "NONE"
                },
                {
                    "value": "Weekly",
                    "name": "WEEKLY"
                },
                {
                    "value": "Monthly",
                    "name": "MONTHLY"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#ReportContext": {
        "type": "structure",
        "members": {

  "licenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration that
this generator reports on.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details of the license configuration that this generator reports on.</p>"
        }
    },
    "com.amazonaws.licensemanager#ReportFrequency": {
        "type": "structure",
```

"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "

}
},
"period": {
"target": "com.amazonaws.licensemanager#ReportFrequencyType",
"traits": {
"smithy.api#documentation": " Time period between each report. The period can be daily, weekly, or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"com.amazonaws.licensemanager#ReportFrequencyType": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "DAY",
"name": "DAY"
},
{
"value": "WEEK",
"name": "WEEK"
},
{
"value": "MONTH",

"name": "MONTH"
}
]
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the report generator. "

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        }
    },
    "ReportType": {
        "target": "com.amazonaws.licensemanager#ReportTypeList",
        "traits": {
            "smithy.api#documentation": "<p>Type of reports that are generated.</p>"
        }
    },
    "ReportContext": {
        "target": "com.amazonaws.licensemanager#ReportContext",
        "traits": {
            "smithy.api#documentation": "<p>License configuration type for this generator.</p>"
         }
    },
    "ReportFrequency": {
        "target": "com.amazonaws.licensemanager#ReportFrequency",
        "traits": {
            "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
        }
    },
    "LicenseManagerReportGeneratorArn": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>"
        }
    },
    "LastRunStatus": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Status of the last report generation attempt.</p>"
        }
    },
    "LastRunFailureReason": {

  "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Failure message for the last report generation attempt.</p>"
        }
    },
    "LastReportGenerationTime": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Time the last report was generated at.</p>"
        }
    },
    "ReportCreatorAccount": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
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"smithy.api#documentation": " The Amazon Web Services account ID used to create the report generator. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the report was created. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags associated with the report generator. "
}
}
},

"traits": {
"smithy.api#documentation": " Describe the details of a report generator. "
}
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportGenerator"
}
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100

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        }
    }
},
"com.amazonaws.licensemanager#ReportType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "LicenseConfigurationSummaryReport",
                "name": "LICENSE_CONFIGURATION_SUMMARY_REPORT"
            },
            {
                "value": "LicenseConfigurationUsageReport",
                 "name": "LICENSE_CONFIGURATION_USAGE_REPORT"
            }
        ]
    }
},
"com.amazonaws.licensemanager#ReportTypeList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportType"
    }
},
"com.amazonaws.licensemanager#ResourceInventory": {
    "type": "structure",
    "members": {
        "ResourceId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>ID of the resource.</p>"
            }
        },
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Type of resource.</p>"
            }
        },
         "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
        },
        "Platform": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Platform of the resource. "
}
},
"PlatformVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Platform version of the resource in the inventory. "
}
},
"ResourceOwningAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation":
" ID of the account that owns the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a resource. "
}
},
"com.amazonaws.licensemanager#ResourceInventoryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ResourceInventory"
}
},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ResourceLimitExceeded",
"httpResponseCode": 400
},
"smithy.api#documentation": " Your resource limits have
been exceeded. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
"type": "structure",
"members": {

```
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "InvalidResource.NotFound",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The resource cannot be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "EC2_INSTANCE",
                 "name": "EC2_INSTANCE"
            },
            {
                "value": "EC2_HOST",
                "name": "EC2_HOST"
            },
            {
                "value": "EC2_AMI",
                "name": "EC2_AMI"
            },
            {
                "value": "RDS",
                "name": "RDS"
            },
            {
                "value": "SYSTEMS_MANAGER_MANAGED_INSTANCE",
                "name": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
            }
        ]
    }
},
"com.amazonaws.licensemanager#S3Location": {
    "type": "structure",
    "members": {
        "bucket": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the S3 bucket
```

reports are published to. "
}
},
"keyPrefix": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Prefix of the S3 bucket reports are published to. "
}
}
},
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InternalError",
"httpResponseCode": 500
},
"smithy.api#documentation": " The server experienced an internal error. Try again. ",
"smithy.api#error": "server",
"smithy.api#httpError": 500
}
},
"com.amazonaws.licensemanager#SignedToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 4096
}
}
},
"com.amazonaws.licensemanager#StatusReasonMessage": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 400
},

"smithy.api#pattern": "^[\\s\\S]+$"
}
},
"com.amazonaws.licensemanager#String": {
"type": "string"
},
"com.amazonaws.licensemanager#StringList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#String"

}
},
"com.amazonaws.licensemanager#Tag": {
"type": "structure",
"members": {
"Key": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Tag key. "
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Tag value. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a tag for a license configuration. "
}
},
"com.amazonaws.licensemanager#TagKeyList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#String"
}
},
"com.amazonaws.licensemanager#TagList":
{
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Tag"
}
},
"com.amazonaws.licensemanager#TagResource": {
"type": "operation",

```
        "input": {
            "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },

  {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>One or more tags.</p>",
                    "smithy.api#required":
 {}
                }
            }
        }
```

```
    },
    "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
            "TokenType": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>"
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "ExpirationTime": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Token expiration time, in ISO8601-UTC format.</p>"
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Data specified by the caller.</p>"
                }
            },
            "RoleArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the roles included in the
token.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a token. "
}
},
"com.amazonaws.licensemanager#TokenList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#TokenData"
}
},
"com.amazonaws.licensemanager#TokenString": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 4096
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#TokenType": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "REFRESH_TOKEN",
"name": "REFRESH_TOKEN"
}
]
}
},
"com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The digital signature method is unsupported. Try your request again. ",

"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#UntagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UntagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Removes the specified tags from the specified license configuration. "
}
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",

```
            "traits": {
                "smithy.api#documentation": "<p>Keys identifying the tags to remove.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
    "type": "structure",
    "members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {

    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
    }
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
    "type": "structure",
    "members": {
        "LicenseConfigurationArn": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"LicenseConfigurationStatus": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
"traits": {
"smithy.api#documentation": " New status of the license configuration. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " New license rule. The only rule that you can add after you create a license\n configuration is licenseAffinityToHost. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " New number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}

},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",

"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},

{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates a report generator. \n After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated. "

}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to update. ",
"smithy.api#required": {}
}
},
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types are supported: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " The report context. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",

"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#InvalidResourceStateException"

```
        },
            {
                "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p> \n        <p>You can update the license specifications of AMIs, instances, and
hosts.\n        You cannot update the license specifications for launch templates and CloudFormation templates, \n
  as they send license configurations to the operation that creates the resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
        "type": "structure",
         "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "AddLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
                }
            },
            "RemoveLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to remove.</p>"
                }
            }
         }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#UpdateServiceSettings": {
```

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Updates License Manager settings for the current Region. "
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
"type": "structure",
"members": {
"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon S3 bucket where the License Manager information is stored. "
}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {

"smithy.api#documentation": " Enables integration with Organizations for cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Activates cross-account discovery. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UsageOperation": {
"type":
"string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
}
}
},
"com.amazonaws.licensemanager#ValidationException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The provided input is not valid. Try your request again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
}
}
}

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string
```

```
 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 //
 Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
```

```
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err
!= nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
```

```
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return
 nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
```

```
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
```

```
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
 err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
```

```
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

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import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if
 err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
```

```
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}
```

1.4108 go-autorest-logger v0.2.1

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1.4109 grafana-loki-pkg-push v0.0.0-20230127102416-571f88bc5765

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1.4110 lmdb 0.9.33-r0

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```
# Contributor: Patrycja Rosa <alpine@ptrcnull.me>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=bsd-compat-headers
pkgver=0.7.2
pkgrel=6
pkgdesc="BSD compatibility headers (cdefs, queue, tree)"
url="https://gitlab.alpinelinux.org/alpine/aports"
arch="noarch"
license="BSD-2-Clause AND BSD-3-Clause"
source="
 cdefs.h
 queue.h
 tree.h
"
builddir="$srcdir"
options="!check" # just headers

package() {
 mkdir -p "$pkgdir"
 install -Dm644 -t "$pkgdir"/usr/include/sys \
  cdefs.h queue.h tree.h
}
sha512sums="
37c8fc73c7aea7b490f7850927e2bb91d12137c9e59e22c084146d515696dbc7973b5de92f4c987ba080dd2502ba8312
7006442c3f019b6447a620c0cae73178  cdefs.h
2f0d5e6e4dc3350285cf17009265dddcbe12431c111868eea39bc8cb038ab7c1f2acacbb21735c4e9d4a1fd106a8fc0f86
11ea33987d4faba37dde5ce6da0750  queue.h
d9ac210d81feb8ad2655bc80fb065d3fe20ae4417b32b4a1711e6738a4870140005c13373b5d1846ef3ce5ae6da45f2da
cef2092881eded0a2e94f6a07752ef3  tree.h
"
```

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The X-Spline code was written Carole Blanc (blanc@labri.u-bordeaux.fr) and Christophe Schlick (schlick@labri.u-bordeaux.fr) starting from an initial implementation done by C. Feuille, S. Grosbois, L. Maziere and L. Minihot as a student practice (Universite Bordeaux, France). For additional information about X-splines, see:
"X-Splines: A Spline Model Designed for the End User" by C. Blanc and C. Schlick, Proceedings of SIGGRAPH'95
http://dept-info.labri.u-bordeaux.fr/~schlick/DOC/sig1.html

```
# Contributor: Maxim Karasev <begs@disroot.org>
# Maintainer: mio <miyopan@e.email>
pkgname=bsd-games
pkgver=3.3
pkgrel=1
pkgdesc="traditional text mode games from BSD"
url="https://bsd-games.sourceforge.io/"
arch="all"
license="BSD-3-Clause"
install="$pkgname.post-install"
makedepends="ncurses-dev coreutils" # configure causes busybox expr error
subpackages="$pkgname-doc"
source="https://sourceforge.net/projects/bsd-games/files/bsd-games-$pkgver.tar.gz"
options="!check" # no tests

build() {
 # some GNU autoconf options are ignored, but it works
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr \
  --sysconfdir=/etc \
  --mandir=/usr/share/man \
  --localstatedir=/var/lib # it really shouldn't be in /var
 make
}

package() {
 make DESTDIR="$pkgdir" install
 install -Dm644 LICENSE "$pkgdir"/usr/share/licenses/bsd-games/LICENSE
}

sha512sums="
```

```
aaf36d09d4fe68514a5c279063d7e77a9a9a84c447037cba974b29faa07eb80c2aab2379d0699c196b5c27ffe1b2bb2c6
8d3390143e0e62d5e3d210ccfb61294
  bsd-games-3.3.tar.gz
"
# Contributor: Fabian Affolter <fabian@affolter-engineering.ch>
# Maintainer: Fabian Affolter <fabian@affolter-engineering.ch>
pkgname=py3-flake8-copyright
_pkgname=flake8-copyright
pkgver=0.2.4
pkgrel=3
pkgdesc="Extension for flake8 which checks for copyrights"
options="!check" # No testsuite
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="py3-flake8 py3-setuptools"
makedepends="py3-gpep517 py3-wheel"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir"/$_pkgname-$pkgver

replaces="py-flake8-copyright"                  # Backwards compatibility
provides="py-flake8-copyright=$pkgver-r$pkgrel" # Backwards compatibility

build() {
 gpep517 build-wheel \
  --wheel-dir .dist \
  --output-fd 3 3>&1 >&2
}

package() {
 gpep517 install-wheel --destdir "$pkgdir" \
  .dist/*.whl
}

sha512sums="
a6ab47e1bb715618f075c51f398e18180404871b3b0faf1c2d30701d5203db6bc23771bf22ffb5bafcd8ee856b9b64237
b316bd503ae7dceed6ca284ccd5a74d
  flake8-copyright-0.2.4.tar.gz
"
# Maintainer: fossdd <fossdd@pwned.life>
pkgname=cargo-license
pkgver=0.6.1
pkgrel=1
pkgdesc="Cargo subcommand to see license of dependencies"
url="https://github.com/onur/cargo-license"
arch="all"
license="MIT"
```

```
makedepends="cargo cargo-auditable"
source="$pkgname-$pkgver.tar.gz::https://crates.io/api/v1/crates/cargo-license/$pkgver/download"

prepare() {
 default_prepare

 cargo fetch --target="$CTARGET" --locked
}

build() {
 cargo auditable build --release --frozen
}

check() {
 cargo test --frozen
}

package() {
 install -Dm755 target/release/cargo-license -t "$pkgdir"/usr/bin
}

sha512sums="
36215145e79965be090ae2f5ce6f5eb208465eb67a94c26bed1fe70a131c46c6dc35695e30852759b7366883fbc3caf00
272d796ac634f0a5e1d49232b6b29d5  cargo-license-0.6.1.tar.gz
"
# Contributor: Dhruvin Gandhi <contact@dhruvin.dev>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=py3-license-expression
_pkgname=license-expression
pkgver=30.3.0
pkgrel=1
pkgdesc="Library to parse, compare, simplify and normalize license expressions"
url="https://github.com/nexB/license-expression"
arch="noarch"
license="Apache-2.0"
depends="python3 py3-boolean.py"
makedepends="py3-setuptools py3-setuptools_scm py3-gpep517 py3-wheel"
checkdepends="py3-pytest py3-pytest-xdist"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/l/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir/$_pkgname-$pkgver"

build() {
 gpep517 build-wheel \
  --wheel-dir .dist \
  --output-fd 3 3>&1 >&2
}
```

```
check() {
 python3 -m venv --clear --without-pip --system-site-packages .testenv
 .testenv/bin/python3 -m installer .dist/*.whl
 .testenv/bin/python3 -m pytest
}

package() {
 python3 -m installer -d "$pkgdir" \
  .dist/*.whl
}

sha512sums="
3fe4ac8830085fe38d8ee713a332047941b2a7a8ff5f31810b124c5903335a8343a222926aefe000da66a49b4d6f8b934
af3cc350448b075a4ec6aa1fdb51aef
  license-expression-30.3.0.tar.gz
"
```

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http://www.geocities.com/SiliconValley/Campus/8645/index.html
http://members.nbci.com/silicon39/
http://www.mp3.com/silicon39
https://analoguesque.x10host.com/

```
# Automatically generated by apkbuild-cpan, template 4
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Celeste <cielesti@protonmail.com>
pkgname=perl-bsd-resource
pkgver=1.2911
pkgrel=9
#_pkgreal is used by apkbuild-cpan to find modules at MetaCpan
_pkgreal=BSD-Resource
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="https://metacpan.org/release/BSD-Resource/"
arch="all"
```

```
license="Artistic-2.0 OR LGPL-2.0"
depends="perl"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/J/JH/JHI/BSD-Resource-$pkgver.tar.gz"
builddir="$srcdir/$_pkgreal-$pkgver"

build() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 PERL_MM_USE_DEFAULT=1 perl -I. Makefile.PL \
  INSTALLDIRS=vendor \
  NO_PACKLIST=1 \
  NO_PERLLOCAL=1
 make
}

check() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 make test
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="
d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16dfa5417f663b
8065ba65f4fea16dc9262728b3b6b85
  BSD-Resource-1.2911.tar.gz
"
```

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```
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pkgname=spdx-licenses
pkgver=3.24.0
pkgrel=0
pkgdesc="Various data formats for the SPDX License List"
url="https://spdx.org/"
arch="noarch"
options="!check" # no test suite
license="CC-BY-3.0"
source="license-list-data-$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v$pkgver.tar.gz"
builddir="$srcdir/license-list-data-$pkgver"
subpackages="$pkgname-list"

_types="html json rdfa rdfnt rdfturtle rdfxml template text"

for type in $_types; do
 subpackages="$subpackages $pkgname-$type:_subpkg"
done

package() {
 mkdir -p "$pkgdir"
}

_subpkg() {
 local type=${subpkgname/$pkgname-/}
 pkgdesc="$pkgdesc ($type)"
 install_if="$pkgname=$pkgver-r$pkgrel"
 mkdir -p "$subpkgdir"/usr/share/spdx
 cp -r "$builddir"/$type "$subpkgdir"/usr/share/spdx/
}

list() {
 pkgdesc="$pkgdesc (licence list)"
 mkdir -p "$subpkgdir"/usr/share/spdx
 local i; for i in "$builddir"/text/*.txt;
 do
  local license=${i##*/}
  echo ${license%.*} >> "$subpkgdir"/usr/share/spdx/license.lst
 done
}

sha512sums="
6eb81424e1b3173dbd8e17859b2e15dfe1c2af8f4da59b7dad0729c038a4cbdba95c34c2c546285fcdbbd41562e39575e
```

```
6a6ebb9463b70121e0a12b99d1307e7  license-list-data-3.24.0.tar.gz
"
mini_sendmail - accept email on behalf of real sendmail

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# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=8
pkgdesc="A library for high-performance 2D graphics"
url="https://www.levien.com/libart/"
arch="all"
options="!check"  # No test suite.
license="LGPL-2.0-or-later"
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
 "

builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
 update_config_sub
 default_prepare
}
```

```
build() {
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr
 make
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7
6654309e001aee9bace727b5b4c8589405256a3c020  libart_lgpl-2.3.21.tar.bz2"
```

1.4111 goleak 1.3.0

1.4111.1 Available under license :

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1.4117 xorm-xorm 0.8.2

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1.4118 google-cloud-go-storage 1.43.0

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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
```

```
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
```

```
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
```

```
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()
```

```
req := &computepb.ListLicensesRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
 resp, err := it.Next()
 if err == iterator.Done {
  break
 }
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp

 // If you need to access the underlying RPC response,
 // you can do so by casting the `Response` as below.
 // Otherwise, remove this line. Only populated after
 // first call to Next(). Not safe for concurrent access.
 _ = it.Response.(*computepb.LicensesListResponse)
}
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
```

```
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"
```

```
 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

```
func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
// protoc-gen-go v1.34.2
// protoc   v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (

```
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)
```

```
func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
```

```
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":           1,
  "WRITER":          2,
  "READER":          3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
```

```
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}
```

```
func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}
```

```
var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
 0x0b, 0x67,
 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
 0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
 0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
```

```
 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
 0x64,
 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
 0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []any{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
```

```
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func
 file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:           file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:
         file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
```

```
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
// Copyright 2024 Google LLC
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//     https://www.apache.org/licenses/LICENSE-2.0
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
```

```
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
```

```
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 SetIamPolicy: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 TestIamPermissions: []gax.CallOption{
  gax.WithTimeout(600000
* time.Millisecond),
 },
}
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}
```

```
// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
```

```
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
```

```
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
```

```
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient
 = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
```

```
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf,
 err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
```

```
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()),
 "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
```

```
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err
 := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and
 context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
```

```
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp);
 err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
```

```
jsonReq, err := m.Marshal(body)
if err != nil {
 return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.RequestId != nil {
 params.Add("requestId",
fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err !=
nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
```

```
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient)
 List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
```

```
 return nil, "", err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.Filter != nil {
 params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
}
if req != nil && req.MaxResults != nil {
 params.Add("maxResults",
fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
 params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
 params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
 params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return
err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }
```

```
  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only
 by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
```

```
 return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
```

```
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on
 the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type",
 "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
```

```
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return
nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}
```

1.4119 protobuf-go 1.35.2

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1.4120 influxdb-client-go 2.12.3

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1.4121 otel-exporters-jaeger 1.17.0

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* /opt/cola/permits/2310597969_1736309836.3047445/0/otel-exporters-jaeger-tar/otel-exporters-jaeger.txt

1.4122 sentry-go 0.12.0

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1.4123 rueidis 1.0.16

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1.4124 mage 1.15.0

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---
title: Notice
description : "Message pour vous aider structurer votre contenu"

Le shortcode *Notice* permet d'afficher 4 types de message pour vous aider structurer votre contenu.

Note

```
{{%/* notice note */%}}
Une notice de type *note*
{{%/* /notice */%}}
```

s'affiche comme

{{% notice note %}}
Une notice de type *note*
{{% /notice %}}

Info

```
{{%/* notice info */%}}
Une notice de type *info*
{{%/* /notice */%}}
```

s'affiche comme

{{% notice info %}}
Une notice de type *info*
{{% /notice %}}

Tip

```
{{%/* notice tip */%}}
Une notice de type *tip*
{{%/* /notice */%}}
```

s'affiche comme

{{% notice tip %}}
Une notice de type *tip*
{{% /notice %}}

Warning

```
{{%/* notice warning */%}}
Une notice de type *warning*
{{%/* /notice */%}}
```

s'affiche comme

{{% notice warning %}}
Une notice de type *warning*
{{% /notice %}}
---
title: Notice
description : "Disclaimers to help you structure your page"

The notice shortcode shows 4 types of disclaimers to help you structure your page.

Note

```
{{%/* notice note */%}}
A notice disclaimer
{{%/* /notice */%}}
```

renders as

{{% notice note %}}
A notice disclaimer
{{% /notice %}}

Info

```
{{%/* notice info */%}}
An information disclaimer
{{%/* /notice */%}}
```

renders as

{{% notice info %}}
An information disclaimer
{{% /notice %}}

Tip

```
{{%/* notice tip */%}}
A tip disclaimer
{{%/* /notice */%}}
```

renders as

{{% notice tip %}}
A tip disclaimer
{{% /notice %}}

Warning

```
{{%/* notice warning */%}}
An warning disclaimer
{{%/* /notice */%}}
```

renders as

{{% notice warning %}}
A warning disclaimer
{{% /notice %}}

1.4125 snowflake 0.3.0

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1.4127 oapi-codegen 1.12.4

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1.4128 regexp 0.0.0-20221123153739-15dc172cd2db

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1.4129 contrib-propagators-jaeger 1.28.0

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1.4130 centrifuge 0.30.2

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1.4131 contrib-samplers-jaegerremote 0.22.0

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1.4132 eagle 0.1.0

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1.4133 go-redis 9.0.2

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1.4135 kin-openapi 0.120.0

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```
package openapi3

import (
 "context"
 "encoding/json"
 "errors"
)

// License is specified by OpenAPI/Swagger standard version 3.
// See https://github.com/OAI/OpenAPI-Specification/blob/main/versions/3.0.3.md#license-object
type License struct {
 Extensions map[string]interface{} `json:"-" yaml:"-"`

 Name string `json:"name" yaml:"name"` // Required
 URL  string `json:"url,omitempty" yaml:"url,omitempty"`
}

// MarshalJSON returns the JSON encoding of License.
func (license License) MarshalJSON() ([]byte, error) {
```

```
 m := make(map[string]interface{}, 2+len(license.Extensions))
 for k, v := range license.Extensions {
  m[k] = v
 }
 m["name"] = license.Name
 if x := license.URL; x != "" {
  m["url"] = x
 }
 return json.Marshal(m)
}

// UnmarshalJSON sets License to a copy of data.
func (license *License) UnmarshalJSON(data []byte) error {
 type LicenseBis License
 var x LicenseBis
 if err := json.Unmarshal(data, &x); err != nil {
  return err
 }
 _ = json.Unmarshal(data, &x.Extensions)
 delete(x.Extensions,
 "name")
 delete(x.Extensions, "url")
 *license = License(x)
 return nil
}

// Validate returns an error if License does not comply with the OpenAPI spec.
func (license *License) Validate(ctx context.Context, opts ...ValidationOption) error {
 ctx = WithValidationOptions(ctx, opts...)

 if license.Name == "" {
  return errors.New("value of license name must be a non-empty string")
 }

 return validateExtensions(ctx, license.Extensions)
}
```

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1.4136 goproxy-ext 0.0.0-20230731152917-f99041a5c027

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1.4137 kms 0.29.0

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1.4139 elastic-apm 1.11.0

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1.4142 bbolt 1.3.3

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1.4151 zapr 1.3.0

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Changes:
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* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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1.4161 go-multihash 0.2.1

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1.4162 knftables 0.0.17

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1.4163 go-base32 0.1.0

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1.4164 apiserver-network-proxy-konnectivity-client 0.30.3

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* /opt/cola/permits/2310715683_1736323207.4686313/0/konnectivity-client-0-30-3-zip/konnectivity-client/proto/client/client_grpc.pb.go
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* /opt/cola/permits/2310715683_1736323207.4686313/0/konnectivity-client-0-30-3-zip/konnectivity-client/pkg/client/client_test.go
* /opt/cola/permits/2310715683_1736323207.4686313/0/konnectivity-client-0-30-3-zip/konnectivity-client/pkg/client/conn.go
* /opt/cola/permits/2310715683_1736323207.4686313/0/konnectivity-client-0-30-3-zip/konnectivity-client/pkg/client/client.go
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* /opt/cola/permits/2310715683_1736323207.4686313/0/konnectivity-client-0-30-3-zip/konnectivity-client/pkg/client/metrics/metrics.go
* /opt/cola/permits/2310715683_1736323207.4686313/0/konnectivity-client-0-30-3-zip/konnectivity-client/pkg/common/metrics/metrics.go
* /opt/cola/permits/2310715683_1736323207.4686313/0/konnectivity-client-0-30-3-zip/konnectivity-client/pkg/common/metrics/testing/metrics.go

1.4165 content-disposition/node_modules/safe-buffer 5.2.1

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1.4166 express/node_modules/safe-buffer 5.2.1

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1.4167 ca-certificates 20241121-r1

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```
# Contributor: Patrycja Rosa <alpine@ptrcnull.me>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=bsd-compat-headers
pkgver=0.7.2
pkgrel=6
pkgdesc="BSD compatibility headers (cdefs, queue, tree)"
url="https://gitlab.alpinelinux.org/alpine/aports"
arch="noarch"
license="BSD-2-Clause AND BSD-3-Clause"
source="
 cdefs.h
 queue.h
 tree.h
"
builddir="$srcdir"
options="!check" # just headers

package() {
 mkdir -p "$pkgdir"
```

```
 install -Dm644 -t "$pkgdir"/usr/include/sys \
  cdefs.h queue.h tree.h
}
sha512sums="
37c8fc73c7aea7b490f7850927e2bb91d12137c9e59e22c084146d515696dbc7973b5de92f4c987ba080dd2502ba8312
7006442c3f019b6447a620c0cae73178  cdefs.h
2f0d5e6e4dc3350285cf17009265dddcbe12431c111868eea39bc8cb038ab7c1f2acacbb21735c4e9d4a1fd106a8fc0f86
11ea33987d4faba37dde5ce6da0750  queue.h
d9ac210d81feb8ad2655bc80fb065d3fe20ae4417b32b4a1711e6738a4870140005c13373b5d1846ef3ce5ae6da45f2da
cef2092881eded0a2e94f6a07752ef3  tree.h
"
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=8
pkgdesc="A library for high-performance 2D graphics"
url="https://www.levien.com/libart/"
arch="all"
options="!check"  # No test suite.
license="LGPL-2.0-or-later"
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
 "

builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
 update_config_sub
 default_prepare
}

build() {
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr
 make
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7
6654309e001aee9bace727b5b4c8589405256a3c020  libart_lgpl-2.3.21.tar.bz2"
```

1.4168 githubcommattngorunewidth 0.0.16

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1.4169 gorilla-websocket 1.5.0

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* /opt/cola/permits/2310980706_1736864447.3778098/0/adh-roadrunner-0-580-0-tar-gz/adh-roadrunner-0.580.0/cmd/data.go
* /opt/cola/permits/2310980706_1736864447.3778098/0/adh-roadrunner-0-580-0-tar-gz/adh-roadrunner-0.580.0/cmd/version.go
* /opt/cola/permits/2310980706_1736864447.3778098/0/adh-roadrunner-0-580-0-tar-gz/adh-roadrunner-0.580.0/cmd/root.go

* /opt/cola/permits/2310980706_1736864447.3778098/0/adh-roadrunner-0-580-0-tar-gz/adh-roadrunner-0.580.0/main.go
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```
--
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--


ACCEDIAN-SMI DEFINITIONS ::= BEGIN

IMPORTS
  MODULE-IDENTITY, OBJECT-IDENTITY, OBJECT-TYPE, NOTIFICATION-TYPE, enterprises
     FROM SNMPv2-SMI
  MODULE-COMPLIANCE, OBJECT-GROUP, NOTIFICATION-GROUP
     FROM SNMPv2-CONF;

accedianMIB MODULE-IDENTITY
  LAST-UPDATED "200608060100Z"
  ORGANIZATION "Accedian Networks, Inc."
  CONTACT-INFO
         "Accedian Technical Assistance Center
          Accedian Networks, Inc.
          2351 Alfred-Nobel blvd., Suite N-410
          Saint-Laurent, Quebec Canada H4S 2A9
          E-mail: support@accedian.com"
  DESCRIPTION
         "The Structure of Management Information for Accedian Networks."

  REVISION "200608060100Z"
      -- 6 Aug 2006
  DESCRIPTION
         "Initial version of MIB module ACCEDIAN-SMI."

  ::= { enterprises 22420 }

--
-- Accedian MIB tree structure
--

acdProducts OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
```

```
        "The root of Accedian's Product OIDs."
  ::= { accedianMIB 1 }

acdMibs OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "The root of Accedian's MIB objects."
  ::= { accedianMIB 2 }

acdTraps OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "The root of Accedian's Trap OIDs."
  ::= { accedianMIB 3 }

  id OBJECT IDENTIFIER ::= {acdTraps 1}

  objectId OBJECT-TYPE
     SYNTAX OCTET STRING (SIZE (0..255))
     MAX-ACCESS  read-write
     STATUS current
     DESCRIPTION
        "The Monitored Object Id in Skylight Analytics"
     ::= {acdTraps 2}

  skylightObjectName OBJECT-TYPE
     SYNTAX OCTET STRING (SIZE (0..255))
     MAX-ACCESS  read-write
     STATUS current
      DESCRIPTION
        "The Monitored Object Name in Skylight Analytics"
     ::= {acdTraps 3}

  objectType OBJECT-TYPE
     SYNTAX OCTET STRING (SIZE (0..255))
     MAX-ACCESS  read-write
     STATUS current
     DESCRIPTION
        "The Monitored Object Type in Skylight Analytics"
     ::= {acdTraps 4}

  direction OBJECT-TYPE
     SYNTAX OCTET STRING (SIZE (0..255))
     MAX-ACCESS  read-write
     STATUS current
     DESCRIPTION
        "Direction of measurement"
     ::= {acdTraps 5}
```

```
policy OBJECT-TYPE
   SYNTAX OCTET STRING (SIZE (0..255))
   MAX-ACCESS  read-write
   STATUS current
   DESCRIPTION
      "The ID of AlertPolicy hat was used to trigger this Alert"
   ::= {acdTraps 6}

metric OBJECT-TYPE
   SYNTAX OCTET STRING (SIZE (0..255))
   MAX-ACCESS  read-write
   STATUS current
   DESCRIPTION
      "The assoicated metric"
   ::= {acdTraps 7}

 alertType OBJECT-TYPE
   SYNTAX OCTET STRING (SIZE (0..255))
   MAX-ACCESS  read-write
   STATUS current
   DESCRIPTION
      "The alert type"
   ::= {acdTraps 8}

source OBJECT-TYPE
   SYNTAX OCTET STRING (SIZE (0..255))
   MAX-ACCESS  read-write
   STATUS current
   DESCRIPTION
      "The entity that detected the alert"
   ::= {acdTraps 9}

processedTime OBJECT-TYPE
   SYNTAX OCTET STRING (SIZE (0..255))
   MAX-ACCESS  read-write
   STATUS current
   DESCRIPTION
      "The time when this alert was processed"
   ::= {acdTraps 10}

startTime OBJECT-TYPE
   SYNTAX OCTET STRING (SIZE (0..255))
   MAX-ACCESS  read-write
   STATUS current
   DESCRIPTION
      "The time when this alert actually started"
   ::= {acdTraps 11}
```

```
timestamp OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE (0..255))
    MAX-ACCESS  read-write
    STATUS current

  DESCRIPTION
        "The trap timestamp"
    ::= {acdTraps 12}

policyName OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE (0..255))
    MAX-ACCESS  read-write
    STATUS current
    DESCRIPTION
        "The name of the policy that was configured to raise the alert"
    ::= {acdTraps 13}

alertState OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE (0..255))
    MAX-ACCESS  read-write
    STATUS current
    DESCRIPTION
        "The current alert state"
    ::= {acdTraps 14}

thresholdValue OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE (0..255))
    MAX-ACCESS  read-write
    STATUS current
    DESCRIPTION
        "The configured  threshold value"
    ::= {acdTraps 15}


metaDataKey1 OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE (0..255))
    MAX-ACCESS  read-write
    STATUS current
    DESCRIPTION
        "Alert Metadata Key Name 1"
    ::= {acdTraps 16}

metaDataKey2 OBJECT-TYPE
     SYNTAX OCTET STRING (SIZE (0..255))
    MAX-ACCESS  read-write
    STATUS current
    DESCRIPTION
```

```
        "Alert Metadata Key Name 2"
    ::= {acdTraps 17}

  metaDataKey3 OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE (0..255))
    MAX-ACCESS  read-write
    STATUS current
    DESCRIPTION
        "Alert Metadata Key Name 3"
    ::= {acdTraps 18}

  metaDataKey4 OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE (0..255))
    MAX-ACCESS  read-write
    STATUS current
    DESCRIPTION
        "Alert Metadata Key Name 4"
    ::= {acdTraps 19}

  metaDataKey5 OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE (0..255))
    MAX-ACCESS  read-write
    STATUS current
    DESCRIPTION
        "Alert Metadata Key Name 5"
    ::= {acdTraps 20}

  metaDataVal1 OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE (0..255))
    MAX-ACCESS  read-write
    STATUS current
    DESCRIPTION
        "Alert Metadata
Value 1"
    ::= {acdTraps 21}

  metaDataVal2 OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE (0..255))
    MAX-ACCESS  read-write
    STATUS current
    DESCRIPTION
        "Alert Metadata Value 2"
    ::= {acdTraps 22}

  metaDataVal3 OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE (0..255))
    MAX-ACCESS  read-write
    STATUS current
```

```
      DESCRIPTION
         "Alert Metadata Value 3"
      ::= {acdTraps 23}

   metaDataVal4 OBJECT-TYPE
      SYNTAX OCTET STRING (SIZE (0..255))
      MAX-ACCESS  read-write
      STATUS current
      DESCRIPTION
         "Alert Metadata Value 4"
      ::= {acdTraps 24}

   metaDataVal5 OBJECT-TYPE
      SYNTAX OCTET STRING (SIZE (0..255))
      MAX-ACCESS  read-write
      STATUS current
      DESCRIPTION
         "Alert Metadata Value 5"
      ::= {acdTraps 25}

acdTrapsConformance OBJECT IDENTIFIER ::= { acdTraps 500 }

acdTrapsCompliances  OBJECT IDENTIFIER ::= { acdTrapsConformance
 1 }
acdTrapsGroups       OBJECT IDENTIFIER ::= { acdTrapsConformance 2 }

acdTrapsNotifications OBJECT IDENTIFIER ::= { acdTraps 50 }

acdTrapSkylight NOTIFICATION-TYPE
   OBJECTS  {  objectId,
               skylightObjectName,
               objectType,
               direction,
               policy,
               metric,
               alertType,
               source,
               processedTime,
               startTime,
               timestamp,
               policyName,
               alertState,
               thresholdValue,
               metaDataKey1,
               metaDataKey2,
               metaDataKey3,
               metaDataKey4,
               metaDataKey5,
```

```
            metaDataVal1,
            metaDataVal2,
            metaDataVal3,
            metaDataVal4,
            metaDataVal5 }
  STATUS      current
  DESCRIPTION
     "The SNMP trap that is generated by Skylight Analytics
     when a policies threshold
 is crossed"

  ::= { acdTrapsNotifications 1 }


acdTrapsSkylightGroup OBJECT-GROUP
  OBJECTS {   objectId,
            skylightObjectName,
            objectType,
            direction,
            policy,
            metric,
            alertType,
            source,
            processedTime,
            startTime,
            timestamp,
            policyName,
            alertState,
            thresholdValue,
            metaDataKey1,
            metaDataKey2,
            metaDataKey3,
            metaDataKey4,
            metaDataKey5,
            metaDataVal1,
            metaDataVal2,
            metaDataVal3,
            metaDataVal4,
            metaDataVal5
  }
  STATUS      current
  DESCRIPTION
     "."
  ::= { acdTrapsGroups 1 }


acdTrapsSkylightNotificationsGroup NOTIFICATION-GROUP
  NOTIFICATIONS {
```

```
      acdTrapSkylight
   }
   STATUS      current
   DESCRIPTION
      "Objects for Skylight Notifications group."
   ::= { acdTraps 100 }

acdTrapsSkylightComplience MODULE-COMPLIANCE
   STATUS      current
   DESCRIPTION
     "The compliance statement for support of the skylight module."
   MODULE
      MANDATORY-GROUPS {
         acdTrapsSkylightGroup,
         acdTrapsSkylightNotificationsGroup
      }
   ::= { acdTrapsCompliances 1}

--  This is the top-level object identifier registry used by Accedian
--  products for SNMP modules containing experimental MIB definitions.
--  In this context, experimental MIBs are defined as:
--    1) IETF work-in-process MIBs which have not been assigned a permanent
--       object identifier by the IANA.
--    2) Accedian work-in-process MIBs that have not achieved final
--       production quality or field experience.
--   NOTE: Support for MIBs under the this OID subtree is temporary and
--         changes to objects may occur without notice."

acdExperiment  OBJECT IDENTIFIER ::=
 { accedianMIB 4 }

acdServices OBJECT-IDENTITY
   STATUS  current
   DESCRIPTION
         "The root of Accedian's Services OIDs."
   ::= { accedianMIB 5 }



END
```

Found in path(s):
* /opt/cola/permits/2310980706_1736864447.3778098/0/adh-roadrunner-0-580-0-tar-gz/adh-roadrunner-0.580.0/mibs/ACCEDIAN-SMI.mib
No license file was found, but licenses were detected in source scan.

/*
Copyright © 2020 NAME HERE <EMAIL ADDRESS>

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distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/2310980706_1736864447.3778098/0/adh-roadrunner-0-580-0-tar-gz/adh-roadrunner-0.580.0/cmd/embedded.go
No license file was found, but licenses were detected in source scan.

// Special handling for the Flex's semi-proprietary 'compressed' overloading

Found in path(s):
* /opt/cola/permits/2310980706_1736864447.3778098/0/adh-roadrunner-0-580-0-tar-gz/adh-roadrunner-0.580.0/datasources/openMetricsParsing.go

1.4170 go-grpc-middleware 2.1.0

1.4170.1 Available under license :

Copyright (c) The go-grpc-middleware Authors.
Licensed under the Apache License 2.0.
cloud.google.com/go v0.26.0/go.mod h1:aQUYkXzVsufM+DwF1aE+0xfcU+56JwCaLick0ClmMTw=
github.com/BurntSushi/toml v0.3.1/go.mod h1:xHWCNGjB5oqiDr8zfno3MHue2Ht5sIBksp03qcyfWMU=
github.com/alecthomas/template v0.0.0-20190718012654-fb15b899a751
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github.com/chzyer/logex v1.1.10/go.mod h1:+Ywpsq7O8HXn0nuIou7OrIPyXbp3wmkHB+jjWRnGsAI=
github.com/chzyer/readline v0.0.0-20180603132655-2972be24d48e/go.mod
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github.com/envoyproxy/go-control-plane v0.9.1-0.20191026205805-5f8ba28d4473/go.mod
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github.com/prometheus/client_model v0.0.0-20190812154241-14fe0d1b01d4/go.mod
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module _ // Auto generated by https://github.com/bwplotka/bingo. DO NOT EDIT

go 1.16

require github.com/efficientgo/tools/copyright v0.0.0-20210326193628-425a09c04e05

1.4172 x-tools 0.28.0

1.4172.1 Available under license :

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```
// Copyright 2020 The Go Authors. All rights reserved.
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// license that can be found in the LICENSE file.

// Package copyright checks that files have the correct copyright notices.
package copyright

import (
 "go/ast"
 "go/parser"
 "go/token"
 "io/fs"
 "os"
 "path/filepath"
 "regexp"
 "strings"
)

func checkCopyright(dir string) ([]string, error) {
 var files []string
 err := filepath.WalkDir(dir, func(path string, d fs.DirEntry, err error) error {
  if err != nil {
   return err
  }
  if d.IsDir() {
   // Skip directories like ".git".
   if strings.HasPrefix(d.Name(), ".") && d.Name() != "." && d.Name() != ".." {
    return filepath.SkipDir
   }
   // Skip any directory that starts with an underscore, as the go
   // command would.
   if strings.HasPrefix(d.Name(), "_") {
    return filepath.SkipDir
   }
   return nil
  }
  needsCopyright, err := checkFile(dir, path)
  if err != nil {
   return err
  }
  if needsCopyright {
   files
 = append(files, path)
  }
  return nil
 })
 return files, err
}
```

```
var copyrightRe = regexp.MustCompile(`Copyright \d{4} The Go Authors. All rights reserved.
Use of this source code is governed by a BSD-style
license that can be found in the LICENSE file.`)

func checkFile(toolsDir, filename string) (bool, error) {
 // Only check Go files.
 if !strings.HasSuffix(filename, ".go") {
  return false, nil
 }
 // Don't check testdata files.
 normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
 if strings.Contains(normalized, "/testdata/") {
  return false, nil
 }
 // goyacc is the only file with a different copyright header.
 if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
  return false, nil
 }
 content, err := os.ReadFile(filename)
 if err != nil {
  return false, err
 }
 fset := token.NewFileSet()
 parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
 if err != nil {
  return false, err
 }
 // Don't require headers on
 generated files.
 if isGenerated(fset, parsed) {
  return false, nil
 }
 shouldAddCopyright := true
 for _, c := range parsed.Comments {
  // The copyright should appear before the package declaration.
  if c.Pos() > parsed.Package {
   break
  }
  if copyrightRe.MatchString(c.Text()) {
   shouldAddCopyright = false
   break
  }
 }
 return shouldAddCopyright, nil
}

// Copied from golang.org/x/tools/gopls/internal/golang/util.go.
```

```
// Matches cgo generated comment as well as the proposed standard:
//
// https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.?`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
 for _, commentGroup := range file.Comments {
  for _, comment := range commentGroup.List {
   if matched := generatedRx.MatchString(comment.Text); !matched {
    continue
   }
   // Check if comment is at the beginning of the line in source.
   if pos := fset.Position(comment.Slash); pos.Column == 1 {
    return true
   }
  }
 }
 return
 false
}
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//go:generate ./gen-licenses.sh licenses.go
package licenses

const Text = `
-- github.com/BurntSushi/toml COPYING --

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`

```
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package licenses_test

import (
 "bytes"
 "os"
 "os/exec"
 "runtime"
 "testing"
)

func TestLicenses(t *testing.T) {
 if runtime.GOOS != "linux" && runtime.GOOS != "darwin" {
  t.Skip("generating licenses only works on Unixes")
 }
 tmp, err := os.CreateTemp("", "")
```

```
 if err != nil {
  t.Fatal(err)
 }
 tmp.Close()

 if out, err := exec.Command("./gen-licenses.sh", tmp.Name()).CombinedOutput(); err != nil {
  t.Fatalf("generating licenses failed: %q, %v", out, err)
 }

 got, err := os.ReadFile(tmp.Name())
 if err != nil {
  t.Fatal(err)
 }
 want, err := os.ReadFile("licenses.go")
 if err != nil {
  t.Fatal(err)
 }
 if !bytes.Equal(got, want) {
  t.Error("combined license text needs updating. Run: `go generate ./internal/licenses` from the gopls module.")
 }
}
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package copyright

import (
 "strings"
 "testing"
)

func TestToolsCopyright(t *testing.T) {
 files, err := checkCopyright("..")
 if err != nil {
  t.Fatal(err)
 }
 if len(files) > 0 {
  t.Errorf("The following files are missing copyright notices:\n%s", strings.Join(files, "\n"))
 }
}
```

1.4173 mod 0.22.0

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1.4174 mapstructure 2.2.1

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1.4175 protobuf-go 1.35.1

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1.4176 x-crypto 0.32.0

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1.4177 zap-exp 1.23.0

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1.4178 genproto-googleapis-api 0.0.0-20240827150818-7e3bb234dfed

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1.4179 pycryptodomex 3.21.0

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1.4180 otel-exporters-otlp-otlptrace 1.16.0

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lib/erl/src/Makefile.am

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```
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```

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```
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*/
```
(By Douglas Crockford <douglas@crockford.com>)

For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
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*/

For lib/py/compat/win32/stdint.h

// ISO C9x compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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in t_html_generator.h

* Bootstrap v2.0.3
*

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1.4181 otel 1.11.1

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```

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```
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*/
```

(By Douglas Crockford <douglas@crockford.com>)

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```
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*/
```

For lib/py/compat/win32/stdint.h

```
// ISO C9x  compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
//  Copyright (c) 2006-2008 Alexander Chemeris
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lib/erl/src/Makefile.am

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For the aclocal/ax_boost_base.m4 and contrib/fb303/aclocal/ax_boost_base.m4
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```
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```

For the lib/nodejs/lib/thrift/json_parse.js:

```
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*/
```
(By Douglas Crockford <douglas@crockford.com>)

For lib/cpp/src/thrift/windows/SocketPair.cpp

```
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*/

For lib/py/compat/win32/stdint.h

// ISO C9x compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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Codegen template
 in t_html_generator.h

* Bootstrap v2.0.3

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1.4185 otel-exporters-otlp-internal-retry 1.16.0

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lib/erl/src/Makefile.am

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```

(By Douglas Crockford <douglas@crockford.com>)

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```
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For lib/py/compat/win32/stdint.h

```
// ISO C9x  compliant stdint.h for Microsoft Visual Studio
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//
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1.4186 librdkafka 2.4.0

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parts of src/rdfnv1a.c: http://www.isthe.com/chongo/src/fnv/hash_32a.c

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librdkafka - Apache Kafka C driver library

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lib/erl/src/Makefile.am

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For the aclocal/ax_boost_base.m4 and contrib/fb303/aclocal/ax_boost_base.m4
components:

```
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```

For the lib/nodejs/lib/thrift/json_parse.js:

```
/*
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   2015-05-02
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*/
```
(By Douglas Crockford <douglas@crockford.com>)

For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
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*/

For lib/py/compat/win32/stdint.h

// ISO C9x compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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//

Codegen template
 in t_html_generator.h

* Bootstrap v2.0.3
*

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1.4188 contrib-instrumentation-net-http-otelhttp 0.42.0

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1.4190 google-cloud-go-auth 0.9.3

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
```

```
 gax.WithTimeout(600000 * time.Millisecond),
},
Get: []gax.CallOption{
 gax.WithTimeout(600000 * time.Millisecond),
 gax.WithRetry(func() gax.Retryer {
  return gax.OnHTTPCodes(gax.Backoff{
   Initial:    100 * time.Millisecond,
   Max:        60000 * time.Millisecond,
   Multiplier: 1.30,
  },
   http.StatusGatewayTimeout,
   http.StatusServiceUnavailable)
 }),
},
GetIamPolicy:
[]gax.CallOption{
 gax.WithTimeout(600000 * time.Millisecond),
 gax.WithRetry(func() gax.Retryer {
  return gax.OnHTTPCodes(gax.Backoff{
   Initial:    100 * time.Millisecond,
   Max:        60000 * time.Millisecond,
   Multiplier: 1.30,
  },
   http.StatusGatewayTimeout,
   http.StatusServiceUnavailable)
 }),
},
Insert: []gax.CallOption{
 gax.WithTimeout(600000 * time.Millisecond),
},
List: []gax.CallOption{
 gax.WithTimeout(600000 * time.Millisecond),
 gax.WithRetry(func() gax.Retryer {
  return gax.OnHTTPCodes(gax.Backoff{
   Initial:    100 * time.Millisecond,
   Max:        60000 * time.Millisecond,
   Multiplier: 1.30,
  },
   http.StatusGatewayTimeout,
   http.StatusServiceUnavailable)
 }),
},
SetIamPolicy: []gax.CallOption{
 gax.WithTimeout(600000 * time.Millisecond),
},
TestIamPermissions: []gax.CallOption{
 gax.WithTimeout(600000
```

```
 * time.Millisecond),
  },
 }
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
```

```
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
```

```
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }
```

```
 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
```

```
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient
 = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
```

```
 }
 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf,
err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
```

```
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()),
 "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err
 := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
```

```
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and
 context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers
```

```
 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp);
err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
```

```
 params.Add("requestId",
fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err !=
nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
```

```
 if e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient)
 List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(uint32(math.MaxInt32))
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
  }
  if req != nil && req.MaxResults !=
 nil {
   params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
  }
  if req != nil && req.OrderBy != nil {
```

```
 params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req != nil && req.PageToken != nil {
  params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return
err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
```

```
  }
  it.Response = resp
  return resp.GetItems(), resp.GetNextPageToken(), nil
 }

 fetch := func(pageSize int, pageToken string) (string, error) {
  items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
  if err != nil {
   return "", err
  }
  it.items = append(it.items, items...)
  return nextPageToken, nil
 }

 it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
 it.pageInfo.MaxSize = int(req.GetMaxResults())
 it.pageInfo.Token = req.GetPageToken()

 return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for
 use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
```

```
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller
 has on the specified resource. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
```

```
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type",
 "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }
```

```
  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return
 nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

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package compute_test
```

```
import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
```

```
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
```

```
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
```

```
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.ListLicensesRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
 resp, err := it.Next()
 if err == iterator.Done {
  break
 }
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp

 // If you need to access the underlying RPC response,
 // you can do so by casting the `Response` as below.
 // Otherwise, remove this line. Only populated after
 // first call to Next(). Not safe for concurrent access.
 _ = it.Response.(*computepb.LicensesListResponse)
}
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
```

```
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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```
//go:build go1.23

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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
```

```
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
```

_ = resp
}

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.34.2
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)
```

```
const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
```

```
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
```

```
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
```

```
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
```

```
  ms.StoreMessageInfo(mi)
 }
 return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
```

0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
0x19, 0x67, 0x6f,
0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
0x0b, 0x67,
0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,

```
 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
 0x64,
 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
 0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []any{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
```

```
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func
 file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:           file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:
         file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleLicensesClient_List_all() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications
 to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 for resp, err := range c.List(ctx, req).All() {
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
```

}
}

1.4191 enterprise-certificate-proxy 0.3.4

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1.4192 json 0.0.0-20241014173422-cfa47c3a1cc8

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1.4194 koanf 2.1.2

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1.4195 json-query 1.1.5

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1.4196 collector-semconv 0.96.0

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1.4197 bytebufferpool 1.0.0

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1.4198 genproto-googleapis-api 0.0.0-20240304212257-790db918fca8

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1.4199 kubernetes-api 0.27.5

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1.4200 collector-semconv 0.81.0

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1.4201 aws-sdk-go-v2-internal-endpoints 2.4.3

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```
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package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
```

```
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense
```

```
 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
```

```
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
 nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
```

```
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
```

```
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
```

```
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
```

```
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack,
 options); err != nil {
  return err
```

```
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil
 {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
```

```
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
     - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
       with:
         python-version: ${{ matrix.python-version }}
     # ScanCode
     - name: Self-configure scancode
       working-directory: ./scancode-toolkit
       run: ./scancode --help
     - name: Run Scan code on target
       run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
     - name: Run Scan code on pr ref
       run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
```

```
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string
```

```
// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
```

```
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
```

```
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
```

```
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
 middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
```

```
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
```

```
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}
```

AWS SDK for Go

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```
{
  "smithy": "1.0",
  "metadata": {
      "suppressions": [
          {
              "id": "HttpMethodSemantics",
              "namespace": "*"
          },
          {
              "id": "HttpResponseCodeSemantics",
              "namespace": "*"
          },
          {
              "id": "PaginatedTrait",
              "namespace": "*"
          },
          {
              "id": "HttpHeaderTrait",
              "namespace": "*"
          },
          {
              "id": "HttpUriConflict",
              "namespace": "*"
```

```
        },
        {
            "id": "Service",
            "namespace": "*"
        }
    ]
},
"shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
        "type": "service",
        "version": "2018-08-01",
        "operations": [
            {
                "target": "com.amazonaws.licensemanager#AcceptGrant"
            },

 {
                "target": "com.amazonaws.licensemanager#CheckInLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CheckoutLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateGrant"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateGrantVersion"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
             },
            {
                "target": "com.amazonaws.licensemanager#CreateLicenseVersion"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateToken"
```

```
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteToken"
    },
    {
      "target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

  },
    {
      "target": "com.amazonaws.licensemanager#GetAccessToken"
    },
    {
      "target": "com.amazonaws.licensemanager#GetGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseUsage"
    },
    {
      "target": "com.amazonaws.licensemanager#GetServiceSettings"
    },
    {
      "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
    },
    {
```

"target": "com.amazonaws.licensemanager#ListDistributedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
"target": "com.amazonaws.licensemanager#ListLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

"target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListResourceInventory"
},
{
"target": "com.amazonaws.licensemanager#ListTagsForResource"
},
{
"target": "com.amazonaws.licensemanager#ListTokens"
},
{
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#RejectGrant"
},
{
"target": "com.amazonaws.licensemanager#TagResource"

```
            },
            {
                "target": "com.amazonaws.licensemanager#UntagResource"
            },
            {
                "target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
            },
            {
                "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
            },
            {
                "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
            },
            {
                "target": "com.amazonaws.licensemanager#UpdateServiceSettings"
            }
        ],
        "traits": {
            "aws.api#service": {
                "sdkId": "License Manager",
                "arnNamespace": "license-manager",
                "cloudFormationName": "LicenseManager",
                "cloudTrailEventSource": "licensemanager.amazonaws.com",
                "endpointPrefix":
 "license-manager"
            },
            "aws.auth#sigv4": {
                "name": "license-manager"
            },
            "aws.protocols#awsJson1_1": {},
            "smithy.api#documentation": "<p>License Manager makes it easier to manage licenses from software
vendors across multiple \n        Amazon Web Services accounts and on-premises servers.</p>",
            "smithy.api#title": "AWS License Manager",
            "smithy.api#xmlNamespace": {
                "uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
            }
        }
    },
    "com.amazonaws.licensemanager#AcceptGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#AcceptGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
        },
        "errors": [
            {
```

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Accepts the specified grant. "
}
},
"com.amazonaws.licensemanager#AcceptGrantRequest":
{
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#AcceptGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},

```
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant
status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#AccessDeniedException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ServiceAccessDenied",
                "httpResponseCode": 401
            },
            "smithy.api#documentation": "<p>Access to resource denied.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 401
        }
    },
    "com.amazonaws.licensemanager#AllowedOperation":
{
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "CreateGrant",
                    "name": "CREATE_GRANT"
                },
                {
                    "value": "CheckoutLicense",
                    "name": "CHECKOUT_LICENSE"
                },
                {
                    "value": "CheckoutBorrowLicense",
                    "name": "CHECKOUT_BORROW_LICENSE"
```

```
            },
            {
              "value": "CheckInLicense",
              "name": "CHECK_IN_LICENSE"
            },
            {
              "value": "ExtendConsumptionLicense",
              "name": "EXTEND_CONSUMPTION_LICENSE"
            },
            {
              "value": "ListPurchasedLicenses",
              "name": "LIST_PURCHASED_LICENSES"
            },
            {
              "value": "CreateToken",
              "name": "CREATE_TOKEN"
            }
          ]
        }
      },
      "com.amazonaws.licensemanager#AllowedOperationList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#AllowedOperation"
        },
        "traits": {
          "smithy.api#length": {
            "min": 1,
            "max": 7
          }
        }
      },
      "com.amazonaws.licensemanager#Arn": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 0,
            "max": 2048
          },
          "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
        }
      },
      "com.amazonaws.licensemanager#ArnList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#Arn"
        }
```

```
    },
    "com.amazonaws.licensemanager#AuthorizationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "AuthorizationFailure",
                "httpResponseCode": 403
            },
            "smithy.api#documentation": "<p>The Amazon Web Services user account does not have permission to
perform the action. Check the IAM\n        policy associated with this account.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 403
        }
    },
    "com.amazonaws.licensemanager#AutomatedDiscoveryInformation":
 {
        "type": "structure",
        "members": {
            "LastRunTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes automated discovery.</p>"
        }
    },
    "com.amazonaws.licensemanager#Boolean": {
        "type": "boolean"
    },
    "com.amazonaws.licensemanager#BorrowConfiguration": {
        "type": "structure",
        "members": {
            "AllowEarlyCheckIn": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether early check-ins are allowed.</p>",
                     "smithy.api#required": {}
                }
            },
            "MaxTimeToLiveInMinutes": {
```

```
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
    }
},
"com.amazonaws.licensemanager#BoxBoolean": {
    "type": "boolean",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#BoxInteger": {
    "type": "integer",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#BoxLong": {

"type": "long",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#CheckInLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
        },
```

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",

        "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
```

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },

{
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

               "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members": {
```

"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The license must use the borrow consumption configuration. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. Partial checkouts are not supported. ",
"smithy.api#required": {}
}
},
"DigitalSignatureMethod": {
"target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
"traits": {
"smithy.api#documentation": " Digital signature method. The possible value is JSON Web Signature (JWS) algorithm PS384.\n For more information, see RFC 7518 Digital Signature with RSASSA-PSS. ",
"smithy.api#required": {}
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {

```
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",

"traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
          },
          "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License consumption token.</p>"
            }
          },
          "EntitlementsAllowed": {
            "target": "com.amazonaws.licensemanager#EntitlementDataList",
            "traits": {
              "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
            }
          },
          "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Node ID.</p>"
            }
          },
          "SignedToken": {

         "target": "com.amazonaws.licensemanager#SignedToken",
            "traits": {
              "smithy.api#documentation": "<p>Signed token.</p>"
            }
          },
          "IssuedAt": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
            }
          },
          "Expiration": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
            }
          },
          "CheckoutMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
```

"traits": {
"smithy.api#documentation":
" Information about constraints. "
}
}
}
},
"com.amazonaws.licensemanager#CheckoutLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],

"traits": {
"smithy.api#documentation": " Checks out the specified license. "
}
},
"com.amazonaws.licensemanager#CheckoutLicenseRequest": {
"type": "structure",
"members": {
"ProductSKU":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. ",
"smithy.api#required": {}
}
},
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. ",
"smithy.api#required": {}
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Key fingerprint identifying the license. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "

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            }
          },
          "NodeId": {
            "target": "com.amazonaws.licensemanager#String",

  "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#CheckoutLicenseResponse": {
        "type": "structure",
        "members": {
          "CheckoutType": {
            "target": "com.amazonaws.licensemanager#CheckoutType",
            "traits": {
                "smithy.api#documentation": "<p>Checkout type.</p>"
            }
          },
          "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
            }
          },
          "EntitlementsAllowed": {
            "target": "com.amazonaws.licensemanager#EntitlementDataList",
            "traits": {
                "smithy.api#documentation":
"<p>Allowed license entitlements.</p>"
            }
          },
          "SignedToken": {
            "target": "com.amazonaws.licensemanager#SignedToken",
            "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
            }
          },
          "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
          },
          "IssuedAt": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
```

```
                "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
            }
        },
        "Expiration": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",

            "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
            }
        },
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CheckoutType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "PROVISIONAL",
                "name": "PROVISIONAL"
            },
            {
                "value": "PERPETUAL",
                "name": "PERPETUAL"
            }
        ]
    }
},
"com.amazonaws.licensemanager#ClientRequestToken":
{
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 36
        }
    }
},
"com.amazonaws.licensemanager#ClientToken": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 0,
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            "max": 2048
          },
          "smithy.api#pattern": "^\\S+$"
        }
      },
      "com.amazonaws.licensemanager#ConflictException": {
        "type": "structure",
        "members": {
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "aws.protocols#awsQueryError": {
            "code": "ConflictException",
            "httpResponseCode": 409
          },
          "smithy.api#documentation": "<p>There
was a conflict processing the request. Try your request again.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 409
        }
      },
      "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
        "type": "structure",
        "members": {
          "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
              "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
            }
          },
          "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
              "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about license consumption.</p>"
         }
      },
      "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
        }
```

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},
"com.amazonaws.licensemanager#ConsumptionConfiguration": {
    "type": "structure",
    "members": {
        "RenewType": {
            "target": "com.amazonaws.licensemanager#RenewType",
            "traits": {
                "smithy.api#documentation": "<p>Renewal frequency.</p>"
            }
        },
        "ProvisionalConfiguration": {
            "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
            }
        },
        "BorrowConfiguration": {

            "target": "com.amazonaws.licensemanager#BorrowConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
    }
},
"com.amazonaws.licensemanager#CreateGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },

    {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
```

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a grant for the specified license. A grant shares the use of license entitlements with specific Amazon Web Services accounts. "
}
},
"com.amazonaws.licensemanager#CreateGrantRequest": {
"type": "structure",
"members": {

"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},

"Principals": {
"target": "com.amazonaws.licensemanager#PrincipalArnList",
"traits": {
"smithy.api#documentation": " The grant principals. ",

"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CreateGrantResponse":
{
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
}
},
"com.amazonaws.licensemanager#CreateGrantVersion": {
"type": "operation",
"input": {

"target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a new version of the specified grant. "
}
},
"com.amazonaws.licensemanager#CreateGrantVersionRequest": {
"type": "structure",
"members": {
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",

"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",

"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the grant. "
}
}
}
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {

"smithy.api#documentation": " Grant
status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New version of the grant. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a license. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConfiguration": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Creates a license configuration. \n A license configuration is an abstraction of a customer license
agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a \n license must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension used to track the license inventory. ",
"smithy.api#required": {}
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {

"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows. \n \n \n \n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n <code>licenseAffinityToHost</code> |\n <code>maximumCores</code> | <code>minimumCores</code>\n \n \n \n \n <code>Instances</code> dimension: <code>allowedTenancy</code> | \n <code>maximumCores</code> | <code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n \n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n <code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code>\n \n \n \n \n <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n <code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>. "
}
},

"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the license configuration. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest":
{
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting
from. \n        For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the AWS
CLI</a> in the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            },
            "DestinationLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting to.
For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the AWS
CLI</a> in the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
```

```
        }
    }
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
    "type": "structure",
    "members": {
        "LicenseConversionTaskId": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
             "traits": {
                "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
         },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
```

"traits": {
"smithy.api#documentation": " Creates a report generator. "
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target":
"com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types an be generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}
}
},

"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " Defines the type of license configuration the report generator tracks. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide

to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits":
{
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the new report generator. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseRequest": {
"type": "structure",
"members": {
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. ",
"smithy.api#required": {}
}
},

"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits": {
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region for the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation":
" Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {

"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}

}
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersion":

```
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
             },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
```

"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits": {
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation":
" Home Region of the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",

"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target":
"com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. "
}
},

"Version": {
"target": "com.amazonaws.licensemanager#String",

```
            "traits": {
                "smithy.api#documentation": "<p>New version of the license.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CreateToken": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateTokenResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },

  {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
```

"smithy.api#documentation": " Creates a long-lived token. \n A refresh token is a JWT token used to get an access token. With an access token,\n you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n call License Manager to manage the specified license. "
}
},
"com.amazonaws.licensemanager#CreateTokenRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n JWT token. ",
"smithy.api#required": {}
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n License Manager does not check whether the roles are in use. "
}
},
"ExpirationInDays": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Token expiration, in days, counted from token creation. The default is 365 days. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller to be included in the JWT token. The data is mapped\n to the amr claim of the JWT token. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Idempotency token, valid for 10 minutes. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CreateTokenResponse": {

"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. "
}
},
"TokenType": {
"target": "com.amazonaws.licensemanager#TokenType",
"traits": {
"smithy.api#documentation": " Token type. "
}
},
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token,
encoded as a JWT token. "
}
}
}
},
"com.amazonaws.licensemanager#DateTime": {
"type": "timestamp"
},
"com.amazonaws.licensemanager#DatetimeRange": {
"type": "structure",
"members": {
"Begin": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Start of the time range. ",
"smithy.api#required": {}
}
},
"End": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " End of the time range. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a time range, in ISO8601-UTC
format. "
}
},

```
"com.amazonaws.licensemanager#DeleteGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

  },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Deletes the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#DeleteGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "StatusReason": {
            "target": "com.amazonaws.licensemanager#StatusReasonMessage",
```

"traits": {

"smithy.api#documentation": " The Status reason for the delete request. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the grant. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#DeleteGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation":
" Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
}
},
"com.amazonaws.licensemanager#DeleteLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
},
"errors": [
{

```
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Deletes the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license configuration.</p> \n          <p>You cannot delete a license configuration
 that is in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified report generator. \n This action deletes the report generator, which stops it from generating future reports.\n The action cannot be reversed. It has no effect on the previous reports from this generator. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to be deleted. ",
"smithy.api#required": {}
}
}
}
},

"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#DeleteLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},

"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#DeleteLicenseResponse":
{
"type": "structure",
"members": {
"Status": {
"target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"DeletionDate": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date when the license is deleted. "
}
}
}
},
"com.amazonaws.licensemanager#DeleteToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteTokenResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
        }

    },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#DigitalSignatureMethod": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "JWT_PS384",
                    "name": "JWT_PS384"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#Entitlement": {
        "type": "structure",
```

"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement resource. Use only if the unit is None. "
}
},
"MaxCount": {
"target": "com.amazonaws.licensemanager#Long",
"traits": {
"smithy.api#documentation": " Maximum entitlement count. Use if the unit is not None. "
}
},
"Overage": {
"target": "com.amazonaws.licensemanager#BoxBoolean",

"traits": {
"smithy.api#documentation": " Indicates whether overages are allowed. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementUnit",
"traits": {
"smithy.api#documentation": " Entitlement unit. ",
"smithy.api#required": {}
}
},
"AllowCheckIn": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether check-ins are allowed. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a resource entitled for use with a license. "
}
},
"com.amazonaws.licensemanager#EntitlementData": {
"type": "structure",

```
        "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement data name.</p>",
              "smithy.api#required": {}
            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement data value.</p>"
            }
          },
          "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement data unit.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Data associated
with an entitlement resource.</p>"
        }
      },
      "com.amazonaws.licensemanager#EntitlementDataList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#EntitlementData"
        }
      },
      "com.amazonaws.licensemanager#EntitlementDataUnit": {
        "type": "string",
        "traits": {
          "smithy.api#enum": [
            {
              "value": "Count",
              "name": "COUNT"
            },
            {
              "value": "None",
              "name": "NONE"
            },
            {
              "value": "Seconds",
              "name": "SECONDS"
```

```
            },
            {
              "value": "Microseconds",
              "name": "MICROSECONDS"
            },
            {

"value": "Milliseconds",
              "name": "MILLISECONDS"
            },
            {
              "value": "Bytes",
              "name": "BYTES"
            },
            {
              "value": "Kilobytes",
              "name": "KILOBYTES"
            },
            {
              "value": "Megabytes",
              "name": "MEGABYTES"
            },
            {
              "value": "Gigabytes",
              "name": "GIGABYTES"
            },
            {
              "value": "Terabytes",
              "name": "TERABYTES"
            },
            {
              "value": "Bits",
              "name": "BITS"
            },
            {
              "value": "Kilobits",
              "name": "KILOBITS"
             },
            {
              "value": "Megabits",
              "name": "MEGABITS"
            },
            {
              "value": "Gigabits",
              "name": "GIGABITS"
            },
            {
              "value": "Terabits",
```

"name": "TERABITS"
},
{
"value": "Percent",
"name": "PERCENT"
},
{
"value": "Bytes/Second",
"name": "BYTES_PER_SECOND"
},
{
"value": "Kilobytes/Second",
"name": "KILOBYTES_PER_SECOND"
},
{
"value": "Megabytes/Second",
"name": "MEGABYTES_PER_SECOND"

},
{
"value": "Gigabytes/Second",
"name": "GIGABYTES_PER_SECOND"
},
{
"value": "Terabytes/Second",
"name": "TERABYTES_PER_SECOND"
},
{
"value": "Bits/Second",
"name": "BITS_PER_SECOND"
},
{
"value": "Kilobits/Second",
"name": "KILOBITS_PER_SECOND"
},
{
"value": "Megabits/Second",
"name": "MEGABITS_PER_SECOND"
},
{
"value": "Gigabits/Second",
"name": "GIGABITS_PER_SECOND"
},
{
"value": "Terabits/Second",

"name": "TERABITS_PER_SECOND"
},

```
            {
                "value": "Count/Second",
                "name": "COUNT_PER_SECOND"
            }
        ]
    }
},
"com.amazonaws.licensemanager#EntitlementList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Entitlement"
    }
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#EntitlementUnit": {

 "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "Count",
                "name": "COUNT"
            },
            {
                "value": "None",
                "name": "NONE"
            },
            {
                "value": "Seconds",
                "name": "SECONDS"
            },
            {
                "value": "Microseconds",
                "name": "MICROSECONDS"
            },
            {
```

"value": "Milliseconds",
"name": "MILLISECONDS"
},
{
"value": "Bytes",
"name": "BYTES"
},
{
"value": "Kilobytes",
"name": "KILOBYTES"

},
{
"value": "Megabytes",
"name": "MEGABYTES"
},
{
"value": "Gigabytes",
"name": "GIGABYTES"
},
{
"value": "Terabytes",
"name": "TERABYTES"
},
{
"value": "Bits",
"name": "BITS"
},
{
"value": "Kilobits",
"name": "KILOBITS"
},
{
"value": "Megabits",
"name": "MEGABITS"
},
{
"value": "Gigabits",
"name": "GIGABITS"
},
{
"value": "Terabits",
"name": "TERABITS"
},
{
"value": "Percent",
"name": "PERCENT"
},

```
            {
              "value": "Bytes/Second",
              "name": "BYTES_PER_SECOND"
            },
            {
              "value": "Kilobytes/Second",
              "name": "KILOBYTES_PER_SECOND"
            },
            {
              "value": "Megabytes/Second",
              "name": "MEGABYTES_PER_SECOND"
            },
            {
              "value": "Gigabytes/Second",
              "name": "GIGABYTES_PER_SECOND"
            },
            {
              "value": "Terabytes/Second",
              "name": "TERABYTES_PER_SECOND"
            },
            {

    "value": "Bits/Second",
              "name": "BITS_PER_SECOND"
            },
            {
              "value": "Kilobits/Second",
              "name": "KILOBITS_PER_SECOND"
            },
            {
              "value": "Megabits/Second",
              "name": "MEGABITS_PER_SECOND"
            },
            {
              "value": "Gigabits/Second",
              "name": "GIGABITS_PER_SECOND"
            },
            {
              "value": "Terabits/Second",
              "name": "TERABITS_PER_SECOND"
            },
            {
              "value": "Count/Second",
              "name": "COUNT_PER_SECOND"
            }
          ]
        }
      },
```

```
    "com.amazonaws.licensemanager#EntitlementUsage": {
        "type": "structure",

"members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ConsumedValue": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxCount": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
                }
            },
            "Unit": {
                "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
                 "traits": {
                    "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementUsageList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
        },
        "output": {
```

"target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Extends the expiration date for license consumption. "
}
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",
"smithy.api#required": {}
}
},
"DryRun": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#documentation": " Checks whether you have the required permissions for the action, without actually making the request. Provides an error response if you do not have the required permissions. "
}
}
}

```
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
    "type": "structure",

  "members": {
        "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
            }
        },
        "Expiration": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#FailedDependencyException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        },
        "ErrorCode": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },

 "traits": {
        "aws.protocols#awsQueryError": {
            "code": "FailedDependency",
            "httpResponseCode": 424
        },
        "smithy.api#documentation": "<p>A dependency required to run the API is missing.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 424
    }
},
"com.amazonaws.licensemanager#Filter": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#FilterName",
            "traits": {
                "smithy.api#documentation": "<p>Name of the filter. Filter names are case-sensitive.</p>"
            }
```

```
            },
            "Values": {
                "target": "com.amazonaws.licensemanager#FilterValues",
                "traits": {
                    "smithy.api#documentation": "<p>Filter values. Filter
values are case-sensitive.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A filter name and value pair that is used to return more specific results
from a\n        describe operation. Filters can be used to match a set of resources by specific criteria,\n        such as
tags, attributes, or IDs.</p>"
        }
    },
    "com.amazonaws.licensemanager#FilterLimitExceededException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "FilterLimitExceeded",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
            "smithy.api#error":
"client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#FilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Filter"
        }
    },
    "com.amazonaws.licensemanager#FilterName": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#FilterValue": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#FilterValues": {
        "type": "list",
        "member": {
```

"target": "com.amazonaws.licensemanager#FilterValue",
"traits": {
"smithy.api#xmlName": "item"
}
}
},
"com.amazonaws.licensemanager#Filters": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter",
"traits": {
"smithy.api#xmlName":
"item"
}
}
},
"com.amazonaws.licensemanager#GetAccessToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"

}
],
"traits": {
"smithy.api#documentation": " Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access tokens\n are valid for one hour. "
}
},
"com.amazonaws.licensemanager#GetAccessTokenRequest": {

"type": "structure",
"members": {
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token, encoded as a JWT token. ",
"smithy.api#required": {}
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Token properties to validate against those present in the JWT token. "
}

}
}
},
"com.amazonaws.licensemanager#GetAccessTokenResponse": {
"type": "structure",
"members": {
"AccessToken": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Temporary access token. "
}
}
}
},
"com.amazonaws.licensemanager#GetGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},

```
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                 "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetGrantResponse": {
        "type": "structure",
        "members": {
            "Grant": {
                "target": "com.amazonaws.licensemanager#Grant",
                "traits": {
                    "smithy.api#documentation": "<p>Grant details.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicense": {
        "type": "operation",
```

```
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license
configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId":
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            },
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>"
                }
            },
```

"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation":
" Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension for which the licenses are counted. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of available licenses. "
}
},
"LicenseCountHardLimit": {

"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Sets the number of available licenses as a hard limit. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses assigned to resources. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License configuration status. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the

owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList":
{
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is
uninstalled. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
"type":
"operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets
information about the specified license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license type conversion task to retrieve information
on.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license
type conversion task.</p>"
                }
```

```
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the resources the license
conversion task is associated with.</p>"
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license type converted from.</p>"
                }
            },
            "DestinationLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license type converted to.</p>"

        }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
                }
            },
            "StartTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
                }
            },
            "LicenseConversionTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                 "traits": {
                    "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
                }
            },
            "EndTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
```

"smithy.api#documentation": " Time at which the license type conversion task was completed. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified report generator. "
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {

"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"ReportGenerator": {
"target": "com.amazonaws.licensemanager#ReportGenerator",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic
reports about your license configurations. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseResponse": {
"type": "structure",
"members": {
"License": {
"target":
"com.amazonaws.licensemanager#License",
"traits": {
"smithy.api#documentation": " License details. "
}

```
        }
    }
},
"com.amazonaws.licensemanager#GetLicenseUsage": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#GetLicenseUsageRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanager#GetLicenseUsageResponse":
```

```
{
        "type": "structure",
        "members": {
            "LicenseUsage": {
                "target": "com.amazonaws.licensemanager#LicenseUsage",
                "traits": {
                    "smithy.api#documentation": "<p>License usage details.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },

 {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

"smithy.api#documentation": " Regional S3 bucket path for storing reports, license trail event data, discovery data,\n and so on. "
}

},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " SNS topic configured to receive notifications from License Manager. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Indicates whether Organizations is integrated with License Manager for\n cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether cross-account discovery is enabled. "
}

},
"LicenseManagerResourceShareArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource share. The License Manager management account \n provides member accounts with access to this share. "
}
}
}
},
"com.amazonaws.licensemanager#Grant": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"ParentArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Parent ARN. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. ",
"smithy.api#required": {}
}
},
"GranteePrincipalArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " The grantee principal ARN. ",

"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"Version": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. ",
"smithy.api#required": {}
}
},
"GrantedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Granted operations. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes a grant. "
}
},
"com.amazonaws.licensemanager#GrantList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Grant"
}
},
"com.amazonaws.licensemanager#GrantStatus": {
"type": "string",

"traits": {
"smithy.api#enum": [
{
"value": "PENDING_WORKFLOW",
"name": "PENDING_WORKFLOW"
},
{
"value": "PENDING_ACCEPT",
"name": "PENDING_ACCEPT"
},
{
"value": "REJECTED",
"name": "REJECTED"
},
{
"value": "ACTIVE",
"name": "ACTIVE"
},
{
"value": "FAILED_WORKFLOW",

"name": "FAILED_WORKFLOW"
},
{
"value": "DELETED",
"name": "DELETED"
},
{
"value": "PENDING_DELETE",
"name": "PENDING_DELETE"
},
{
"value": "DISABLED",
"name": "DISABLED"
},
{
"value": "WORKFLOW_COMPLETED",
"name": "WORKFLOW_COMPLETED"
}
]
}
},
"com.amazonaws.licensemanager#GrantedLicense": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. "
}

},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}

```
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>Granted license issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the granted license.</p>"

        }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>Granted license status.</p>"
            }
        },
        "Validity": {
            "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {
                "smithy.api#documentation": "<p>Date and time range during which the granted license is valid, in
ISO8601-UTC format.</p>"
            }
        },
        "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Granted license beneficiary.</p>"
            }
        },
        "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
             "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>"
            }
        },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
            }
        },
        "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
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"smithy.api#documentation": " Granted license metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Creation time of the granted license. "

}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Version of the granted license. "
}
},
"ReceivedMetadata": {
"target": "com.amazonaws.licensemanager#ReceivedMetadata",
"traits": {
"smithy.api#documentation": " Granted license received metadata. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a license that is granted to a grantee. "
}
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#GrantedLicense"
}
},
"com.amazonaws.licensemanager#ISO8601DateTime":
{
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
}
},
"com.amazonaws.licensemanager#Integer": {
"type": "integer",
"traits": {

"smithy.api#box": {}
}
},
"com.amazonaws.licensemanager#InvalidParameterValueException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidParameterValueProvided",

"httpResponseCode": 400
},
"smithy.api#documentation": " One or more parameter values are not valid. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#InvalidResourceStateException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidResourceState",
"httpResponseCode": 400
},
"smithy.api#documentation": " License Manager cannot allocate a license to a resource because of its state. \n For example, you cannot allocate a license to an instance in the process of shutting\n down. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#InventoryFilter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the filter. ",
"smithy.api#required": {}

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                }
            },
            "Condition": {
                "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
                "traits": {
                    "smithy.api#documentation": "<p>Condition of the filter.</p>",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Value
of the filter.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>An inventory filter.</p>"
        }
    },
    "com.amazonaws.licensemanager#InventoryFilterCondition": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "EQUALS",
                    "name": "EQUALS"
                },
                {
                    "value": "NOT_EQUALS",
                    "name": "NOT_EQUALS"
                },
                {
                    "value": "BEGINS_WITH",
                    "name": "BEGINS_WITH"
                },
                {
                    "value": "CONTAINS",
                    "name": "CONTAINS"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#InventoryFilterList":
{
        "type": "list",
        "member": {
```

"target": "com.amazonaws.licensemanager#InventoryFilter"
}
},
"com.amazonaws.licensemanager#Issuer": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. ",
"smithy.api#required": {}
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
}
},
"traits": {

"smithy.api#documentation": " Details about the issuer of a license. "
}
},
"com.amazonaws.licensemanager#IssuerDetails": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. "
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Issuer key fingerprint. "
}
}
},
"traits": {
"smithy.api#documentation": " Details associated with the issuer of a license. "
}
},
"com.amazonaws.licensemanager#License": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. "
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " License issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the license. "
}
},
"Status": {

"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "

}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " License metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License creation time. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits":
{
"smithy.api#documentation": " License version. "

```
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
    "type": "structure",
    "members": {
        "LicenseConfigurationId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
            }
        },
        "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }

  },
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the license configuration.</p>"
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
                "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
            }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {

                "smithy.api#documentation": "<p>License rules.</p>"
            }
        },
```

"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Number of available licenses as a hard limit. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "

}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the license configuration. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the license configuration's owner. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",

"traits": {
"smithy.api#documentation": " Summaries for licenses consumed by various resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {

"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource consuming licenses. "
}
},

"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was associated with the resource. "
}
},
"AmiAssociationScope":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an association with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
}
},
"com.amazonaws.licensemanager#LicenseConfigurationStatus": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "AVAILABLE",
"name": "AVAILABLE"
},
{
"value": "DISABLED",
"name": "DISABLED"
}
]
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsage": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "

```
            }
        },
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Type of resource.</p>"
            }
        },
        "ResourceStatus": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

  "smithy.api#documentation": "<p>Status of the resource.</p>"
            }
        },
        "ResourceOwnerId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
            }
        },
        "AssociationTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time when the license configuration was initially associated with
the resource.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
            }
        }

    },
      "traits": {
          "smithy.api#documentation": "<p>Details about the usage of a resource associated with a license
configuration.</p>"
      }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
      "type": "list",
      "member": {
          "target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
      }
    },
    "com.amazonaws.licensemanager#LicenseConfigurations": {
```

"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfiguration"
}
},
"com.amazonaws.licensemanager#LicenseConversionContext": {
"type": "structure",
"members": {
"UsageOperation": {
"target": "com.amazonaws.licensemanager#UsageOperation",
"traits": {
"smithy.api#documentation": " The Usage operation value that corresponds
to the license type you are converting your resource from. For more information about which platforms correspond
to which usage operation values see <a href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-
info-fields.html#billing-info\">Sample data: usage operation by platform\n \n "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTask": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the license type conversion task. "
}
},
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource associated
with the license type\n conversion task. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted
from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",

"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted to. "
}
},

"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " The status of the conversion task. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was started at. "
}
},
"LicenseConversionTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " The time the usage operation value of the resource was changed. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was completed. "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTaskId": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50

```
            },
            "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
        "type":
"string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "IN_PROGRESS",
                    "name": "IN_PROGRESS"
                },
                {
                    "value": "SUCCEEDED",
                    "name": "SUCCEEDED"
                },
                {
                    "value": "FAILED",
                    "name": "FAILED"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTasks": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTask"
        }
    },
    "com.amazonaws.licensemanager#LicenseCountingType": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "vCPU",
                    "name": "VCPU"

                },
                {
                    "value": "Instance",
                    "name": "INSTANCE"
                },
                {
                    "value": "Core",
                    "name": "CORE"
                },
                {
```

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                "value": "Socket",
                "name": "SOCKET"
            }
        ]
    }
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "PENDING_DELETE",
                "name": "PENDING_DELETE"
            },
            {
                "value": "DELETED",
                "name": "DELETED"
            }
        ]
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
     "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {
    "type": "structure",
    "members": {
        "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
        },
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Resource type.</p>"
            }
        },
        "ErrorMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Error message.</p>"
```

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        }
          },
          "FailureTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Failure time.</p>"
            }
          },
          "OperationName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Name of the operation.</p>"
            }
          },
          "ResourceOwnerId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the
resource.</p>"
            }
          },
          "OperationRequestedBy": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

         "smithy.api#documentation": "<p>The requester is \"License Manager Automated Discovery\".</p>"
            }
          },
          "MetadataList": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
              "smithy.api#documentation": "<p>Reserved.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes the failure of a license operation.</p>"
        }
      },
      "com.amazonaws.licensemanager#LicenseOperationFailureList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#LicenseOperationFailure"
        }
      },
      "com.amazonaws.licensemanager#LicenseSpecification": {
        "type": "structure",
        "members": {
```

"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseSpecification"
}
},
"com.amazonaws.licensemanager#LicenseStatus": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "AVAILABLE",
"name": "AVAILABLE"
},
{
"value": "PENDING_AVAILABLE",
"name": "PENDING_AVAILABLE"
},
{
"value": "DEACTIVATED",
"name": "DEACTIVATED"
},
{
"value": "SUSPENDED",
"name": "SUSPENDED"
},
{

"value": "EXPIRED",
"name": "EXPIRED"
},
{
"value": "PENDING_DELETE",
"name": "PENDING_DELETE"
},
{

"value": "DELETED",
"name": "DELETED"
}
]
}
},
"com.amazonaws.licensemanager#LicenseUsage": {
"type": "structure",
"members": {
"EntitlementUsages": {
"target": "com.amazonaws.licensemanager#EntitlementUsageList",
"traits": {
"smithy.api#documentation": " License entitlement usages. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the entitlement usage associated with a license. "
}
},
"com.amazonaws.licensemanager#LicenseUsageException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {

"aws.protocols#awsQueryError": {
"code": "LicenseUsageFailure",
"httpResponseCode": 412
},
"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},

"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the resource associations for the specified license configuration. \n Resource associations need not consume licenses from a license configuration. \n For example, an AMI or a stopped instance might not consume a license (depending on \n the license rules). "
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",

"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationAssociations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license configuration. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

             "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants distributed for the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
        "type": "structure",
        "members": {
            "GrantArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n
        <code>LicenseArn</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>GrantStatus</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>GranteePrincipalARN</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>ProductSKU</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>LicenseIssuerName</code>\n                </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
```

"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}

```
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the license configuration operations that failed.</p>"
    }
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
    "type": "structure",
    "members": {
        "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse": {
    "type": "structure",
    "members": {
        "LicenseOperationFailureList": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
            "traits": {
                "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListLicenseConfigurations":
```

```
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },

        {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
```

```
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n                Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n                Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n
                <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement
is used. \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n
</li>\n            <li>\n                <p>\n                <code>usagelimitExceeded</code> - A Boolean value that indicates
whether the available licenses have been exceeded. \n                Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurations": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurations",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configurations.</p>"

                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasks": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
        },
```

```
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target":
"com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
        "type": "structure",
        "members": {
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                 "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>\n        Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n      </p>"
                }
            }
        }
```

```
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
      "type": "structure",
      "members": {
        "LicenseConversionTasks": {
          "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
          "traits": {
            "smithy.api#documentation": "<p>Information about the license configuration tasks for your
account.</p>"
           }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },

    {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
```

"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the report generators for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest": {
"type":
"structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported:
\n \n \n \n <code>LicenseConfigurationArn</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to
return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
"type": "structure",
"members": {
"ReportGenerators": {
"target": "com.amazonaws.licensemanager#ReportGeneratorList",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic reports about your license
configurations. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
"type": "operation",
"input":
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Describes the
license configurations for the specified resource. "
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a resource that has an
associated license configuration. ",
"smithy.api#required": {}
}

```
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",

         "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {
        "LicenseSpecifications": {
            "target": "com.amazonaws.licensemanager#LicenseSpecifications",
            "traits": {
                "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
     "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
```

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation":
"<p>Lists all versions of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum
number of results to return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
        "type": "structure",
        "members": {
            "Licenses": {
                "target": "com.amazonaws.licensemanager#LicenseList",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
```

```
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the licenses for your account.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicensesRequest": {
    "type": "structure",
    "members": {
        "LicenseArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
```

```
            }
          },
          "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>Beneficiary</code>\n            </p>\n
      </li>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n            </p>\n          </li>\n
    <li>\n            <p>\n
      <code>Fingerprint</code>\n            </p>\n          </li>\n          <li>\n            <p>\n
<code>Status</code>\n            </p>\n          </li>\n        </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListLicensesResponse": {
        "type": "structure",
        "members": {
          "Licenses": {

    "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
              "smithy.api#documentation": "<p>License details.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListReceivedGrants": {
        "type": "operation",
        "input": {
```

"target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists grants that are received but not accepted. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
"type": "structure",

"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n

```
</li>\n <li>\n <p>\n <code>LicenseIssuerName</code>\n </p>\n
</li>\n <li>\n <p>\n <code>LicenseArn</code>\n </p>\n </li>\n
<li>\n <p>\n
<code>GrantStatus</code>\n </p>\n </li>\n <li>\n <p>\n
<code>GranterAccountId</code>\n </p>\n </li>\n </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
        "type": "structure",
        "members": {
          "Grants": {

          "target": "com.amazonaws.licensemanager#GrantList",
            "traits": {
              "smithy.api#documentation": "<p>Received grant details.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListReceivedLicenses": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
        },
        "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"

 },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists received licenses.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
        "type": "structure",

   "members": {
            "LicenseArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>ProductSKU</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                    <code>Status</code>\n                </p>\n            </li>\n
<li>\n                <p>\n                    <code>Fingerprint</code>\n                </p>\n            </li>\n            <li>\n
<p>\n                    <code>IssuerName</code>\n
            </p>\n            </li>\n            <li>\n                <p>\n                    <code>Beneficiary</code>\n                </p>\n
        </li>\n        </ul>"
                }
```

```
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
        "type": "structure",
        "members": {
            "Licenses": {

"target": "com.amazonaws.licensemanager#GrantedLicenseList",
                "traits": {
                    "smithy.api#documentation": "<p>Received license details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventory": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"

  },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
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            },
            {
                "target": "com.amazonaws.licensemanager#FailedDependencyException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryRequest": {

        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#InventoryFilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>account_id</code>
 - The ID of the Amazon Web Services account that owns the resource.\n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n
    <code>application_name</code> - The name of the application. \n                Logical operators are
<code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n            </li>\n            <li>\n                <p>\n
    <code>license_included</code> - The type of license included. \n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.\n                Possible values are <code>sql-server-
```

enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n \n <code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n \n \n \n <code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account). \n \n "
}
}
}
},
"com.amazonaws.licensemanager#ListResourceInventoryResponse": {
"type": "structure",
"members": {
"ResourceInventoryList": {
"target": "com.amazonaws.licensemanager#ResourceInventoryList",
"traits":
{
"smithy.api#documentation": " Information about the resources. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListTagsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the tags for the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required":
 {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the tags.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
```

```
            },
            {
                "target":
 "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
            "TokenIds": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Token IDs.</p>"
                }
            },
            "Filters": {
                "target":
 "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
    <ul>\n            <li>\n                <p>\n                    <code>LicenseArns</code>\n                </p>\n            </li>\n
</ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
```

```
            }
        }
    },
    "com.amazonaws.licensemanager#ListTokensResponse":
{
        "type": "structure",
        "members": {
            "Tokens": {
                "target": "com.amazonaws.licensemanager#TokenList",
                "traits": {
                    "smithy.api#documentation": "<p>Received token details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
```

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying license\n        consumption details by resource
 at a selected point in time. Use this action to audit the\n        current license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {

                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>resourceArn</code> - The ARN of the license configuration resource.\n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>).
 \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>resourceAccount</code> - The ID of the account that owns the resource. \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
                }
            }
```

```
    }
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
    "type": "structure",
    "members": {
        "LicenseConfigurationUsageList": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license configurations.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#Location": {
    "type": "string"
},
"com.amazonaws.licensemanager#Long": {
    "type": "long",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummary": {
    "type": "structure",
    "members": {
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
            }
        },
        "AssociationCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                 "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
},
```

```
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {
    "type": "integer",
    "traits": {
        "smithy.api#box": {},
        "smithy.api#range": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
     },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The key name.</p>"
            }
        },
        "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The value.</p>"
            }
        }
    },
    "traits": {
```

"smithy.api#documentation": " Describes key/value pairs. "
}

},
"com.amazonaws.licensemanager#MetadataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Metadata"
}
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#OrganizationConfiguration": {
"type": "structure",
"members": {
"EnableIntegration": {
"target": "com.amazonaws.licensemanager#Boolean",

"traits": {
"smithy.api#documentation": " Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {
"min": 1,

"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> -

The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n
<code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n
<code>ols</code> | \n <code>olap</code>. \n \n ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information for a license configuration. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
"type": "structure",
"members": {
"ProductInformationFilterName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Filter name. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterValue": {
"target":
"com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " Filter value. "
}
},
"ProductInformationFilterComparator": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Logical operator. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information filters. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ProductInformationFilter"

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        }
    },
    "com.amazonaws.licensemanager#ProductInformationList": {
        "type": "list",

       "member": {
            "target": "com.amazonaws.licensemanager#ProductInformation"
        }
    },
    "com.amazonaws.licensemanager#ProvisionalConfiguration": {
        "type": "structure",
        "members": {
            "MaxTimeToLiveInMinutes": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#RateLimitExceededException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"

       }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "RateLimitExceeded",
                "httpResponseCode": 429
            },
            "smithy.api#documentation": "<p>Too many requests have been submitted. Try again after a brief
wait.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 429
        }
    },
    "com.amazonaws.licensemanager#ReceivedMetadata": {
        "type": "structure",
        "members": {
            "ReceivedStatus": {
                "target": "com.amazonaws.licensemanager#ReceivedStatus",
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"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {

"smithy.api#documentation": " Received status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations. "
}
}
},
"traits": {
"smithy.api#documentation": " Metadata associated with received licenses and grants. "
}
},
"com.amazonaws.licensemanager#ReceivedStatus": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "PENDING_WORKFLOW",
"name": "PENDING_WORKFLOW"
},
{
"value": "PENDING_ACCEPT",
"name": "PENDING_ACCEPT"
},
{
"value": "REJECTED",
"name": "REJECTED"
},
{
"value": "ACTIVE",
"name": "ACTIVE"
},
{
"value": "FAILED_WORKFLOW",
"name": "FAILED_WORKFLOW"
},
{
"value": "DELETED",

"name": "DELETED"
},
{
"value": "DISABLED",
"name": "DISABLED"
},
{
"value": "WORKFLOW_COMPLETED",
"name": "WORKFLOW_COMPLETED"
}
]
}
},
"com.amazonaws.licensemanager#RedirectException": {
"type": "structure",
"members": {

"Location": {
"target": "com.amazonaws.licensemanager#Location",
"traits": {
"smithy.api#httpHeader": "Location"
}
},
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " This is not the correct Region for the resource. Try again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 308
}
},
"com.amazonaws.licensemanager#RejectGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#RejectGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#RejectGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

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            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest":
{
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
```

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            }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#RenewType": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "None",
                    "name": "NONE"
                },
                {
                    "value": "Weekly",
                    "name": "WEEKLY"
                },
                {
                    "value": "Monthly",
                    "name": "MONTHLY"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#ReportContext": {
        "type": "structure",
        "members": {

  "licenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration that
this generator reports on.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details of the license configuration that this generator reports on.</p>"
        }
    },
    "com.amazonaws.licensemanager#ReportFrequency": {
        "type": "structure",
```

"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "

}
},
"period": {
"target": "com.amazonaws.licensemanager#ReportFrequencyType",
"traits": {
"smithy.api#documentation": " Time period between each report. The period can be daily, weekly, or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"com.amazonaws.licensemanager#ReportFrequencyType": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "DAY",
"name": "DAY"
},
{
"value": "WEEK",
"name": "WEEK"
},
{
"value": "MONTH",

"name": "MONTH"
}
]
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the report generator. "

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        }
    },
    "ReportType": {
        "target": "com.amazonaws.licensemanager#ReportTypeList",
        "traits": {
            "smithy.api#documentation": "<p>Type of reports that are generated.</p>"
        }
    },
    "ReportContext": {
        "target": "com.amazonaws.licensemanager#ReportContext",
        "traits": {
            "smithy.api#documentation": "<p>License configuration type for this generator.</p>"
         }
    },
    "ReportFrequency": {
        "target": "com.amazonaws.licensemanager#ReportFrequency",
        "traits": {
            "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
        }
    },
    "LicenseManagerReportGeneratorArn": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>"
        }
    },
    "LastRunStatus": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Status of the last report generation attempt.</p>"
        }
    },
    "LastRunFailureReason": {

  "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Failure message for the last report generation attempt.</p>"
        }
    },
    "LastReportGenerationTime": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Time the last report was generated at.</p>"
        }
    },
    "ReportCreatorAccount": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
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"smithy.api#documentation": " The Amazon Web Services account ID used to create the report generator. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the report was created. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags associated with the report generator. "
}
}
},

"traits": {
"smithy.api#documentation": " Describe the details of a report generator. "
}
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportGenerator"
}
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100

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        }
    }
},
"com.amazonaws.licensemanager#ReportType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "LicenseConfigurationSummaryReport",
                "name": "LICENSE_CONFIGURATION_SUMMARY_REPORT"
            },
            {
                "value": "LicenseConfigurationUsageReport",
                 "name": "LICENSE_CONFIGURATION_USAGE_REPORT"
            }
        ]
    }
},
"com.amazonaws.licensemanager#ReportTypeList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportType"
    }
},
"com.amazonaws.licensemanager#ResourceInventory": {
    "type": "structure",
    "members": {
        "ResourceId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>ID of the resource.</p>"
            }
        },
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Type of resource.</p>"
            }
        },
         "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
        },
        "Platform": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
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"smithy.api#documentation": " Platform of the resource. "
}
},
"PlatformVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Platform version of the resource in the inventory. "
}
},
"ResourceOwningAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation":
" ID of the account that owns the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a resource. "
}
},
"com.amazonaws.licensemanager#ResourceInventoryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ResourceInventory"
}
},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ResourceLimitExceeded",
"httpResponseCode": 400
},
"smithy.api#documentation": " Your resource limits have
been exceeded. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
"type": "structure",
"members": {

```
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "InvalidResource.NotFound",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The resource cannot be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "EC2_INSTANCE",
                 "name": "EC2_INSTANCE"
            },
            {
                "value": "EC2_HOST",
                "name": "EC2_HOST"
            },
            {
                "value": "EC2_AMI",
                "name": "EC2_AMI"
            },
            {
                "value": "RDS",
                "name": "RDS"
            },
            {
                "value": "SYSTEMS_MANAGER_MANAGED_INSTANCE",
                "name": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
            }
        ]
    }
},
"com.amazonaws.licensemanager#S3Location": {
    "type": "structure",
    "members": {
        "bucket": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the S3 bucket
```

reports are published to. "
}
},
"keyPrefix": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Prefix of the S3 bucket reports are published to. "
}
}
},
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InternalError",
"httpResponseCode": 500
},
"smithy.api#documentation": " The server experienced an internal error. Try again. ",
"smithy.api#error": "server",
"smithy.api#httpError": 500
}
},
"com.amazonaws.licensemanager#SignedToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 4096
}
}
},
"com.amazonaws.licensemanager#StatusReasonMessage": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 400
},

"smithy.api#pattern": "^[\\s\\S]+$"
}
},
"com.amazonaws.licensemanager#String": {
"type": "string"
},
"com.amazonaws.licensemanager#StringList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#String"

}
},
"com.amazonaws.licensemanager#Tag": {
"type": "structure",
"members": {
"Key": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Tag key. "
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Tag value. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a tag for a license configuration. "
}
},
"com.amazonaws.licensemanager#TagKeyList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#String"
}
},
"com.amazonaws.licensemanager#TagList":
{
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Tag"
}
},
"com.amazonaws.licensemanager#TagResource": {
"type": "operation",

"input": {
"target": "com.amazonaws.licensemanager#TagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#TagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},

{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Adds the specified tags to the specified license configuration. "
}
},
"com.amazonaws.licensemanager#TagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license
configuration. ",
"smithy.api#required": {}
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " One or more tags. ",
"smithy.api#required":
{}
}
}
}

```
    },
    "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
            "TokenType": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>"
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "ExpirationTime": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Token expiration time, in ISO8601-UTC format.</p>"
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Data specified by the caller.</p>"
                }
            },
            "RoleArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the roles included in the
token.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a token. "
}
},
"com.amazonaws.licensemanager#TokenList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#TokenData"
}
},
"com.amazonaws.licensemanager#TokenString": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 4096
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#TokenType": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "REFRESH_TOKEN",
"name": "REFRESH_TOKEN"
}
]
}
},
"com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The digital signature method is unsupported. Try your request again. ",

"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#UntagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UntagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Removes the specified tags from the specified license configuration. "
}
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",

```
            "traits": {
                "smithy.api#documentation": "<p>Keys identifying the tags to remove.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
    "type": "structure",
    "members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {

    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
    }
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
    "type": "structure",
    "members": {
        "LicenseConfigurationArn": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"LicenseConfigurationStatus": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
"traits": {
"smithy.api#documentation": " New status of the license configuration. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " New license rule. The only rule that you can add after you create a license\n configuration is licenseAffinityToHost. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " New number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}

},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",

"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},

{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates a report generator. \n After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated. "

}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to update. ",
"smithy.api#required": {}
}
},
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types are supported: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " The report context. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",

"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#InvalidResourceStateException"

```
        },
            {
                "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p> \n        <p>You can update the license specifications of AMIs, instances, and
hosts.\n        You cannot update the license specifications for launch templates and CloudFormation templates, \n
  as they send license configurations to the operation that creates the resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
        "type": "structure",
         "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "AddLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
                }
            },
            "RemoveLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to remove.</p>"
                }
            }
         }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#UpdateServiceSettings": {
```

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Updates License Manager settings for the current Region. "
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
"type": "structure",
"members": {
"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon S3 bucket where the License Manager information is stored. "
}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {

"smithy.api#documentation": " Enables integration with Organizations for cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Activates cross-account discovery. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UsageOperation": {
"type":
"string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
}
}
},
"com.amazonaws.licensemanager#ValidationException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The provided input is not valid. Try your request again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
}
}
}

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string
```

```
 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 //
 Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
```

```
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err
!= nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
```

```
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return
 nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
```

```
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
```

```
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
 err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
```

```
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

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// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if
 err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
```

```
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}
```

1.4202 microsoft-authentication-library-for-go 1.1.1

1.4202.1 Available under license :

24333f8a63b6825ea9c5514f83c2829b004d1fee
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e9acab5b5fbb560a72cfaecce8946896ff6aab9d

859f317696f67ef3d7f30a50a5560e7834b43903

d975f751698a77b662f1254ddbeed3901e976f5a

33b6a2b64607f11b759f320ef9dff4ae5c47d97a

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84831b9409646a918e30573bab4c9c91346d8abd

1.4203 hyperloglog 0.0.0-20240124082744-24bca3a5b39b

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1.4204 genproto-googleapis-api 0.0.0-20230717213848-3f92550aa753

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1.4205 contrib-propagators-aws 1.13.0

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1.4206 aws-sdk-go-v2-service-ec2 1.1.0

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```
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import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the license.
 //
 //
 This member is required.
 SourceVersion *string
}

type DeleteLicenseOutput struct {

 // Date on which the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
}
```

```
func addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if
 err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack);
 err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, addOperationGetLicenseMiddlewares)
```

```
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
}

func addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil
 {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region
```

```
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
```

```
 // * KeyFingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
}

func addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if
 err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
```

```
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region:       region,
 ServiceID:     ServiceID,
 SigningName:   "license-manager",
```

```
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string
```

```
 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata
```

```
 middleware.Metadata
}

func addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack);
 err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:
       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
```

```
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer
```

```
 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity *types.DatetimeRange

 //
 Information about the license.
 LicenseMetadata []types.Metadata
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
}

func addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
```

```
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err
```

```
 != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
```

```
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
 //
 // * KeyFingerprint
 //
 // * Issuer
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
}

func addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
```

```
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return
err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
```

```
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
```

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package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
```

```
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 //
 Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string
```

```
 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
}

func addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if
 err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
 middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
}

func addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
```

```
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err =
addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
```

1.4207 segment 0.9.0

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1.4208 waitress 3.0.2

1.4208.1 Available under license :

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1.4209 maphash 0.1.0

1.4209.1 Available under license :

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1.4210 aws-sdk-go-v2-credentials 1.11.2

1.4210.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string
```

```
 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
 nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
```

```
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
```

```
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
```

```
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
```

```
 }
 if err
 = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
```

```
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack,
 options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil
 {
  return err
 }
 return nil
}
```

```
func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
     - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
       with:
         python-version: ${{ matrix.python-version }}
     # ScanCode
```

```
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
```

```
// This member is required.
Beneficiary *string

// Unique, case-sensitive identifier that you provide to ensure
the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
```

```
 //
 // This member is required.
 Validity *types.DatetimeRange

 //
 Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
```

```
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
```

```
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
```

```
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
 middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
```

```
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}
```

AWS SDK for Go

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```
{
   "smithy": "1.0",
   "metadata": {
       "suppressions": [
           {
               "id": "HttpMethodSemantics",
               "namespace": "*"
           },
           {
               "id": "HttpResponseCodeSemantics",
               "namespace": "*"
           },
           {
               "id": "PaginatedTrait",
```

```
            "namespace": "*"
        },
        {
            "id": "HttpHeaderTrait",
            "namespace": "*"
        },
        {
            "id": "HttpUriConflict",
            "namespace": "*"
        },
        {
            "id": "Service",
            "namespace": "*"
        }
    ]
},
"shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
        "type": "service",
        "version": "2018-08-01",
        "operations": [
            {
                "target": "com.amazonaws.licensemanager#AcceptGrant"
            },

 {
                "target": "com.amazonaws.licensemanager#CheckInLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CheckoutLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateGrant"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateGrantVersion"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
```

```
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseVersion"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateToken"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteToken"
    },
    {
      "target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

  },
    {
      "target": "com.amazonaws.licensemanager#GetAccessToken"
    },
    {
      "target": "com.amazonaws.licensemanager#GetGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
    },
    {
```

"target": "com.amazonaws.licensemanager#GetLicenseUsage"
},
{
"target": "com.amazonaws.licensemanager#GetServiceSettings"
},
{
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#ListDistributedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
"target": "com.amazonaws.licensemanager#ListLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

"target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListResourceInventory"
},
{
"target": "com.amazonaws.licensemanager#ListTagsForResource"
},
{
"target": "com.amazonaws.licensemanager#ListTokens"
},

```
            {
                "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
            },
            {
                "target": "com.amazonaws.licensemanager#RejectGrant"
            },
            {
                "target": "com.amazonaws.licensemanager#TagResource"
            },
            {
                "target": "com.amazonaws.licensemanager#UntagResource"
            },
            {
                "target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
            },
            {
                "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
            },
            {
                "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
            },
            {
                "target": "com.amazonaws.licensemanager#UpdateServiceSettings"
            }
        ],
        "traits": {
            "aws.api#service": {
                "sdkId": "License Manager",
                "arnNamespace": "license-manager",
                "cloudFormationName": "LicenseManager",
                "cloudTrailEventSource": "licensemanager.amazonaws.com",
                "endpointPrefix":
 "license-manager"
            },
            "aws.auth#sigv4": {
                "name": "license-manager"
            },
            "aws.protocols#awsJson1_1": {},
            "smithy.api#documentation": "<p>License Manager makes it easier to manage licenses from software
vendors across multiple \n        Amazon Web Services accounts and on-premises servers.</p>",
            "smithy.api#title": "AWS License Manager",
            "smithy.api#xmlNamespace": {
                "uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
            }
        }
    },
    "com.amazonaws.licensemanager#AcceptGrant": {
        "type": "operation",
```

```
        "input": {
            "target": "com.amazonaws.licensemanager#AcceptGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
        },
        "errors": [
            {

           "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantRequest":
{
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantResponse": {
```

"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant
status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
}
},
"com.amazonaws.licensemanager#AccessDeniedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ServiceAccessDenied",
"httpResponseCode": 401
},
"smithy.api#documentation": " Access to resource denied. ",
"smithy.api#error": "client",
"smithy.api#httpError": 401
}
},
"com.amazonaws.licensemanager#AllowedOperation":
{
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "CreateGrant",
"name": "CREATE_GRANT"

```
            },
            {
                "value": "CheckoutLicense",
                "name": "CHECKOUT_LICENSE"
            },
            {
                "value": "CheckoutBorrowLicense",
                "name": "CHECKOUT_BORROW_LICENSE"
            },
            {
                "value": "CheckInLicense",
                "name": "CHECK_IN_LICENSE"
            },
            {
                "value": "ExtendConsumptionLicense",
                "name": "EXTEND_CONSUMPTION_LICENSE"
            },
            {
                "value": "ListPurchasedLicenses",
                "name": "LIST_PURCHASED_LICENSES"
            },
            {
                "value": "CreateToken",
                "name": "CREATE_TOKEN"
            }
        ]
    }
},
"com.amazonaws.licensemanager#AllowedOperationList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#AllowedOperation"
    },
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 7
        }
    }
},
"com.amazonaws.licensemanager#Arn": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 2048
        },
        "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-
```

z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
        }
    },
    "com.amazonaws.licensemanager#ArnList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Arn"
        }
    },
    "com.amazonaws.licensemanager#AuthorizationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "AuthorizationFailure",
                "httpResponseCode": 403
            },
            "smithy.api#documentation": " The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n policy associated with this account. ",
            "smithy.api#error": "client",
            "smithy.api#httpError": 403
        }
    },
    "com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
        "type": "structure",
        "members": {
            "LastRunTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": " Time that automated discovery last ran. "
                }
            }
        },
        "traits": {
            "smithy.api#documentation": " Describes automated discovery. "
        }
    },
    "com.amazonaws.licensemanager#Boolean": {
        "type": "boolean"
    },
    "com.amazonaws.licensemanager#BorrowConfiguration": {
        "type": "structure",
        "members": {

```
        "AllowEarlyCheckIn": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Indicates whether early check-ins are allowed.</p>",
                 "smithy.api#required": {}
            }
        },
        "MaxTimeToLiveInMinutes": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
    }
},
"com.amazonaws.licensemanager#BoxBoolean": {
    "type": "boolean",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#BoxInteger": {
    "type": "integer",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#BoxLong": {

"type": "long",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#CheckInLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
    },
    "errors": [
        {
```

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks in the specified license. Check in a license when it is no longer in use. "
}
},
"com.amazonaws.licensemanager#CheckInLicenseRequest": {
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",

"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
}
}
},

"com.amazonaws.licensemanager#CheckInLicenseResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                 "traits": {
                    "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
                    "smithy.api#required": {}
                }
            },
            "DigitalSignatureMethod": {
                "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
                "traits": {
                    "smithy.api#documentation": "<p>Digital signature method. The possible value is JSON Web
Signature (JWS) algorithm PS384.\n        For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>",
                    "smithy.api#required": {}
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
 "<p>Node ID.</p>"
                }
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
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"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",

"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " Allowed license entitlements. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"SignedToken": {

"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout is issued. "
}
},

"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation":
" Information about constraints. "
}
}
}
},
"com.amazonaws.licensemanager#CheckoutLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"

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            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutLicenseRequest": {
        "type": "structure",
        "members": {
            "ProductSKU":
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "CheckoutType": {
                "target": "com.amazonaws.licensemanager#CheckoutType",
                "traits": {
                    "smithy.api#documentation": "<p>Checkout type.</p>",
                    "smithy.api#required": {}
                }
            },
            "KeyFingerprint": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Key fingerprint identifying the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                 "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",
                    "smithy.api#required": {}
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
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idempotency of the request. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Node ID. "
}
}
}
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
"type": "structure",
"members": {
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation":
" Allowed license entitlements. "
}
},
"SignedToken": {
"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"NodeId": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",

"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the checkout license. "
}
}
}
},
"com.amazonaws.licensemanager#CheckoutType": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "PROVISIONAL",
"name": "PROVISIONAL"
},
{
"value": "PERPETUAL",
"name": "PERPETUAL"
}
]
}
},
"com.amazonaws.licensemanager#ClientRequestToken":
{
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 36

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            }
        }
    },
    "com.amazonaws.licensemanager#ClientToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 2048
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
    "com.amazonaws.licensemanager#ConflictException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ConflictException",
                "httpResponseCode": 409
            },
            "smithy.api#documentation": "<p>There
was a conflict processing the request. Try your request again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 409
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
                }
            },
            "ConsumedLicenses": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
                }
            }
        },
        "traits": {
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        "smithy.api#documentation": "<p>Details about license consumption.</p>"
      }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
      }
    },
    "com.amazonaws.licensemanager#ConsumptionConfiguration": {
      "type": "structure",
      "members": {
        "RenewType": {
          "target": "com.amazonaws.licensemanager#RenewType",
          "traits": {
            "smithy.api#documentation": "<p>Renewal frequency.</p>"
          }
        },
        "ProvisionalConfiguration": {
          "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
          "traits": {
            "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
          }
        },
        "BorrowConfiguration": {

          "target": "com.amazonaws.licensemanager#BorrowConfiguration",
          "traits": {
            "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
      }
    },
    "com.amazonaws.licensemanager#CreateGrant": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#CreateGrantRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#CreateGrantResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
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            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },

        {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of
license entitlements with specific Amazon Web Services accounts.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantRequest": {
        "type": "structure",
        "members": {

  "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
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                "smithy.api#required": {}
            }
        },

    "Principals": {
            "target": "com.amazonaws.licensemanager#PrincipalArnList",
            "traits": {
                "smithy.api#documentation": "<p>The grant principals.</p>",
                "smithy.api#required": {}
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "AllowedOperations": {
            "target": "com.amazonaws.licensemanager#AllowedOperationList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed operations for the grant.</p>",
                "smithy.api#required": {}
            }
        }
    }
  },
  "com.amazonaws.licensemanager#CreateGrantResponse":
{
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
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            }
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersion": {
        "type": "operation",
        "input": {

  "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

              "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
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            "smithy.api#required": {}
          }
        },
        "GrantArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
             "smithy.api#required": {}
          }
        },
        "GrantName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Grant name.</p>"
          }
        },
        "AllowedOperations": {
          "target": "com.amazonaws.licensemanager#AllowedOperationList",
          "traits": {
            "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#GrantStatus",
          "traits": {
            "smithy.api#documentation": "<p>Grant status.</p>"
          }
        },
        "StatusReason": {
          "target": "com.amazonaws.licensemanager#StatusReasonMessage",

       "traits": {
            "smithy.api#documentation": "<p>Grant status reason.</p>"
          }
        },
        "SourceVersion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Current version of the grant.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionResponse": {
      "type": "structure",
      "members": {
        "GrantArn": {
          "target": "com.amazonaws.licensemanager#Arn",
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"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant
status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New version of the grant. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"

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            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license configuration.</p> \n        <p>A license configuration is an abstraction of a customer license
 agreement that can be\n        consumed and enforced by License Manager. Components include specifications for the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), license affinity  to host (how long a \n        license must be associated with a host), and the number of licenses purchased and used.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
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"traits": {
"smithy.api#documentation": " Name of the license configuration. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension used to track the license inventory. ",
"smithy.api#required": {}
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {

"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows. \n \n \n \n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n <code>licenseAffinityToHost</code> |\n <code>maximumCores</code> | <code>minimumCores</code>\n \n \n \n \n <code>Instances</code> dimension: <code>allowedTenancy</code> | \n <code>maximumCores</code> | <code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n \n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n <code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code>\n \n \n \n \n <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n <code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> |

<code>minimumVcpus</code>\n \n \n \n The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the license configuration. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"

```
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest":
 {
        "type": "structure",
        "members": {
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
              "smithy.api#required": {}
            }
          },
          "SourceLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
              "smithy.api#documentation": "<p>Information that identifies the license type you are converting
from. \n        For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the AWS
CLI</a> in the <i>License Manager User Guide</i>.</p>",
               "smithy.api#required": {}
            }
          },
          "DestinationLicenseContext": {
```

"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting to. For the structure of the destination license, see Convert a license type using the AWS CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the created license type conversion task. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "ReportGeneratorName": {
                "target":
 "com.amazonaws.licensemanager#ReportGeneratorName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>",
                    "smithy.api#required": {}
                }
            },
            "Type": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports to generate. The following report types an be
generated:</p>\n        <ul>\n            <li>\n                <p>License configuration report - Reports the number and
details of consumed licenses for a license configuration.</p>\n            </li>\n            <li>\n                <p>Resource
report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n            </li>\n
</ul>",
                    "smithy.api#required": {}
                }
            },

        "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
                    "smithy.api#documentation": "<p>Defines the type of license configuration the report generator
tracks.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportFrequency": {
                "target": "com.amazonaws.licensemanager#ReportFrequency",
                "traits": {
                    "smithy.api#documentation": "<p>Frequency by which reports are generated.  Reports can be
generated daily, monthly, or weekly.</p>",
```

"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the new report generator. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseRequest": {
"type": "structure",
"members": {
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}
},

"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. ",
"smithy.api#required": {}
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits": {
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region for the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation":
" Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}

```
                }
            },
            "ConsumptionConfiguration": {
                "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
                "traits": {

             "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional configuration for workloads\n          running with continuous connectivity. Choose a borrow configuration for workloads with offline\n          usage.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}

    }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License version.</p>"
```

```
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersion":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
             },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
```

"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits": {
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation":
" Home Region of the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},

"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target":
"com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. "
}

```
        },

    "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>New version of the license.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CreateToken": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateTokenResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },

  {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
```

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a long-lived token. \n A refresh token is a JWT token used to get an access token. With an access token,\n you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n call License Manager to manage the specified license. "
}
},
"com.amazonaws.licensemanager#CreateTokenRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n JWT token. ",
"smithy.api#required": {}
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n License Manager does not check whether the roles are in use. "
}
},
"ExpirationInDays": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Token expiration, in days, counted from token creation. The default is 365 days. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller to be included in the JWT token. The data is mapped\n to the amr claim of the JWT token. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Idempotency token, valid for 10 minutes. ",
"smithy.api#required": {}
}

```
            }
        }
    },
    "com.amazonaws.licensemanager#CreateTokenResponse": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
            "TokenType": {
                "target": "com.amazonaws.licensemanager#TokenType",
                "traits": {
                    "smithy.api#documentation": "<p>Token type.</p>"
                }
            },
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token,
encoded as a JWT token.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#DateTime": {
        "type": "timestamp"
    },
    "com.amazonaws.licensemanager#DatetimeRange": {
        "type": "structure",
        "members": {
            "Begin": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Start of the time range.</p>",
                    "smithy.api#required": {}
                }
            },
            "End": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>End of the time range.</p>"
                }
            }
        },
        "traits": {
```

"smithy.api#documentation": " Describes a time range, in ISO8601-UTC format. "
}
},
"com.amazonaws.licensemanager#DeleteGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified grant. "
}
},
"com.amazonaws.licensemanager#DeleteGrantRequest": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}

```
            }
          },
          "StatusReason": {
            "target": "com.amazonaws.licensemanager#StatusReasonMessage",
            "traits": {

      "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Current version of the grant.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanager#DeleteGrantResponse": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation":
"<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Grant version.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#DeleteLicense": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
        },
        "output": {
```

"target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{

"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license configuration. \n You cannot delete a license configuration
that is in use. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the license configuration. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

        "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified report generator.</p>\n        <p>This action
deletes the report generator, which stops it from generating future reports.\n        The action cannot be reversed. It
has no effect on the previous reports from this generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to be
deleted.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },

  "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#DeleteLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
```

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#DeleteLicenseResponse":
{
"type": "structure",
"members": {
"Status": {
"target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"DeletionDate": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date when the license is deleted. "
}
}
}
},
"com.amazonaws.licensemanager#DeleteToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteTokenResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified token. Must be called in the license home Region. "
}

},
"com.amazonaws.licensemanager#DeleteTokenRequest": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#DeleteTokenResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#DigitalSignatureMethod": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "JWT_PS384",
"name": "JWT_PS384"
}
]
}
},

```
  "com.amazonaws.licensemanager#Entitlement": {
      "type": "structure",

"members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement name.</p>",
                "smithy.api#required": {}
            }
        },
        "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement resource. Use only if the unit is None.</p>"
            }
        },
        "MaxCount": {
            "target": "com.amazonaws.licensemanager#Long",
            "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
            }
        },
        "Overage": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",

  "traits": {
                "smithy.api#documentation": "<p>Indicates whether overages are allowed.</p>"
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementUnit",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement unit.</p>",
                "smithy.api#required": {}
            }
        },
        "AllowCheckIn": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Indicates whether check-ins are allowed.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes a resource entitled for use with a license.</p>"
    }
  },
```

```
    "com.amazonaws.licensemanager#EntitlementData": {
        "type": "structure",
         "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement data name.</p>",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement data value.</p>"
                }
            },
            "Unit": {
                "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement data unit.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Data associated
with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementDataList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementData"
        }
    },
    "com.amazonaws.licensemanager#EntitlementDataUnit": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "Count",
                    "name": "COUNT"
                },
                {
                    "value": "None",
                    "name": "NONE"
                },
                {
```

"value": "Seconds",
"name": "SECONDS"
},
{
"value": "Microseconds",
"name": "MICROSECONDS"
},
{

"value": "Milliseconds",
"name": "MILLISECONDS"
},
{
"value": "Bytes",
"name": "BYTES"
},
{
"value": "Kilobytes",
"name": "KILOBYTES"
},
{
"value": "Megabytes",
"name": "MEGABYTES"
},
{
"value": "Gigabytes",
"name": "GIGABYTES"
},
{
"value": "Terabytes",
"name": "TERABYTES"
},
{
"value": "Bits",
"name": "BITS"
},
{
"value": "Kilobits",
"name": "KILOBITS"
},
{
"value": "Megabits",
"name": "MEGABITS"
},
{
"value": "Gigabits",
"name": "GIGABITS"
},

```
            {
              "value": "Terabits",
              "name": "TERABITS"
            },
            {
              "value": "Percent",
              "name": "PERCENT"
            },
            {
              "value": "Bytes/Second",
              "name": "BYTES_PER_SECOND"
            },
            {
              "value": "Kilobytes/Second",
              "name": "KILOBYTES_PER_SECOND"
            },
            {
              "value": "Megabytes/Second",
              "name": "MEGABYTES_PER_SECOND"

        },
            {
              "value": "Gigabytes/Second",
              "name": "GIGABYTES_PER_SECOND"
            },
            {
              "value": "Terabytes/Second",
              "name": "TERABYTES_PER_SECOND"
            },
            {
              "value": "Bits/Second",
              "name": "BITS_PER_SECOND"
            },
            {
              "value": "Kilobits/Second",
              "name": "KILOBITS_PER_SECOND"
            },
            {
              "value": "Megabits/Second",
              "name": "MEGABITS_PER_SECOND"
            },
            {
              "value": "Gigabits/Second",
              "name": "GIGABITS_PER_SECOND"
            },
            {
              "value": "Terabits/Second",
```

"name": "TERABITS_PER_SECOND"
},
{
"value": "Count/Second",
"name": "COUNT_PER_SECOND"
}
]
}
},
"com.amazonaws.licensemanager#EntitlementList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Entitlement"
}
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The entitlement is not allowed. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#EntitlementUnit": {

"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "Count",
"name": "COUNT"
},
{
"value": "None",
"name": "NONE"
},
{
"value": "Seconds",
"name": "SECONDS"
},
{
"value": "Microseconds",
"name": "MICROSECONDS"

```
        },
        {
          "value": "Milliseconds",
          "name": "MILLISECONDS"
        },
        {
          "value": "Bytes",
          "name": "BYTES"
        },
        {
          "value": "Kilobytes",
          "name": "KILOBYTES"

    },
        {
          "value": "Megabytes",
          "name": "MEGABYTES"
        },
        {
          "value": "Gigabytes",
          "name": "GIGABYTES"
        },
        {
          "value": "Terabytes",
          "name": "TERABYTES"
        },
        {
          "value": "Bits",
          "name": "BITS"
        },
        {
          "value": "Kilobits",
          "name": "KILOBITS"
        },
        {
          "value": "Megabits",
          "name": "MEGABITS"
        },
        {
          "value": "Gigabits",
          "name": "GIGABITS"
        },
        {
          "value": "Terabits",
           "name": "TERABITS"
        },
        {
          "value": "Percent",
```

"name": "PERCENT"
},
{
"value": "Bytes/Second",
"name": "BYTES_PER_SECOND"
},
{
"value": "Kilobytes/Second",
"name": "KILOBYTES_PER_SECOND"
},
{
"value": "Megabytes/Second",
"name": "MEGABYTES_PER_SECOND"
},
{
"value": "Gigabytes/Second",
"name": "GIGABYTES_PER_SECOND"
},
{
"value": "Terabytes/Second",
"name": "TERABYTES_PER_SECOND"
},
{

"value": "Bits/Second",
"name": "BITS_PER_SECOND"
},
{
"value": "Kilobits/Second",
"name": "KILOBITS_PER_SECOND"
},
{
"value": "Megabits/Second",
"name": "MEGABITS_PER_SECOND"
},
{
"value": "Gigabits/Second",
"name": "GIGABITS_PER_SECOND"
},
{
"value": "Terabits/Second",
"name": "TERABITS_PER_SECOND"
},
{
"value": "Count/Second",
"name": "COUNT_PER_SECOND"
}
]

```
        }
    },
    "com.amazonaws.licensemanager#EntitlementUsage": {
        "type": "structure",

"members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ConsumedValue": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxCount": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
                }
            },
            "Unit": {
                "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
                 "traits": {
                    "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementUsageList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
```

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
        },
        "errors": [
            {

        "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}
                }
            },
            "DryRun": {
                "target": "com.amazonaws.licensemanager#Boolean",
                "traits": {
                    "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>"
                }
```

```
        }
    }
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
    "type": "structure",

  "members": {
        "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
            }
        },
        "Expiration": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#FailedDependencyException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        },
        "ErrorCode": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },

 "traits": {
        "aws.protocols#awsQueryError": {
            "code": "FailedDependency",
            "httpResponseCode": 424
        },
        "smithy.api#documentation": "<p>A dependency required to run the API is missing.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 424
    }
},
"com.amazonaws.licensemanager#Filter": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#FilterName",
            "traits": {
```

"smithy.api#documentation": " Name of the filter. Filter names are case-sensitive. "
}
},
"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " Filter values. Filter values are case-sensitive. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter name and value pair that is used to return more specific results from a\n describe operation. Filters can be used to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FilterLimitExceeded",
"httpResponseCode": 400
},
"smithy.api#documentation": " The request uses too many filters or too many filter values. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter"
}
},
"com.amazonaws.licensemanager#FilterName": {
"type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
"type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {

"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#FilterValue",
"traits": {
"smithy.api#xmlName": "item"
}
}
},
"com.amazonaws.licensemanager#Filters": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter",
"traits": {
"smithy.api#xmlName":
"item"
}
}
},
"com.amazonaws.licensemanager#GetAccessToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"

}
],
"traits": {
"smithy.api#documentation": " Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access tokens\n are valid for one hour. "
}

```
    },
    "com.amazonaws.licensemanager#GetAccessTokenRequest": {
        "type": "structure",
        "members": {
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT
token.</p>"
                }

            }
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenResponse": {
        "type": "structure",
        "members": {
            "AccessToken": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Temporary access token.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
```

```
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
                "smithy.api#documentation": "<p>Grant details.</p>"
            }
        }
    }
},
```

"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",

    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
     "traits": {
        "smithy.api#documentation": " Gets detailed information about the specified license. "
    }
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license
configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId":
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            },
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>"
```

```
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation":
"<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
                "smithy.api#documentation": "<p>Dimension for which the licenses are counted.</p>"
            }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules.</p>"
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of available licenses.</p>"
            }
        },
        "LicenseCountHardLimit": {

  "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Sets the number of available licenses as a hard limit.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses assigned to resources.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License configuration status.</p>"
            }
        },
        "OwnerAccountId": {
            "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " Account ID of the
owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList":
{
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is
uninstalled. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
"type":

"operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets
information about the specified license type conversion task. "
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information
on. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {

"smithy.api#documentation": " ID of the license
type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license
conversion task is associated with. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted to. "

}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " Status of the license type conversion task. "
}
},
"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was started . "
}
},
"LicenseConversionTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Amount of time to complete the license type conversion. "
}
},

"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was completed. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified report generator. "
}
},

"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"ReportGenerator": {
"target": "com.amazonaws.licensemanager#ReportGenerator",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic
reports about your license configurations. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseResponse": {
"type": "structure",
"members": {
"License": {
"target":

"com.amazonaws.licensemanager#License",
"traits": {
"smithy.api#documentation": " License details. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseUsage": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the usage of the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseUsageRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}

```
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageResponse":
{
        "type": "structure",
        "members": {
            "LicenseUsage": {
                "target": "com.amazonaws.licensemanager#LicenseUsage",
                "traits": {
                    "smithy.api#documentation": "<p>License usage details.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },

 {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
        "type": "structure",
```

"members": {
"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Regional S3 bucket path for storing reports, license trail event data, discovery data,\n and so on. "
}

},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " SNS topic configured to receive notifications from License Manager. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Indicates whether Organizations is integrated with License Manager for\n cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether cross-account discovery is enabled. "
}

},
"LicenseManagerResourceShareArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource share. The License Manager management account \n provides member accounts with access to this share. "
}
}
}
},
"com.amazonaws.licensemanager#Grant": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}

```
        },
        "GrantName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {

            "smithy.api#documentation": "<p>Grant name.</p>",
            "smithy.api#required": {}
          }
        },
        "ParentArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Parent ARN.</p>",
            "smithy.api#required": {}
          }
        },
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>License ARN.</p>",
            "smithy.api#required": {}
          }
        },
        "GranteePrincipalArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>The grantee principal ARN.</p>",

"smithy.api#required": {}
          }
        },
        "HomeRegion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Home Region of the grant.</p>",
            "smithy.api#required": {}
          }
        },
        "GrantStatus": {
          "target": "com.amazonaws.licensemanager#GrantStatus",
          "traits": {
            "smithy.api#documentation": "<p>Grant status.</p>",
            "smithy.api#required": {}
          }
        },
        "StatusReason": {
          "target": "com.amazonaws.licensemanager#StatusReasonMessage",
          "traits": {
```

"smithy.api#documentation": " Grant status reason. "
}
},
"Version": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. ",
"smithy.api#required": {}
}
},
"GrantedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Granted operations. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes a grant. "
}
},
"com.amazonaws.licensemanager#GrantList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Grant"
}
},
"com.amazonaws.licensemanager#GrantStatus": {
"type": "string",

"traits": {
"smithy.api#enum": [
{
"value": "PENDING_WORKFLOW",
"name": "PENDING_WORKFLOW"
},
{
"value": "PENDING_ACCEPT",
"name": "PENDING_ACCEPT"
},
{
"value": "REJECTED",
"name": "REJECTED"
},
{
"value": "ACTIVE",

"name": "ACTIVE"
},
{
"value": "FAILED_WORKFLOW",
"name": "FAILED_WORKFLOW"
},
{
"value": "DELETED",
"name": "DELETED"
},
{
"value": "PENDING_DELETE",
"name": "PENDING_DELETE"
},
{
"value": "DISABLED",
"name": "DISABLED"
},
{
"value": "WORKFLOW_COMPLETED",
"name": "WORKFLOW_COMPLETED"
}
]
}
},
"com.amazonaws.licensemanager#GrantedLicense": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. "
}

},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " Granted license issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the granted license. "

}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " Granted license status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the granted license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Granted license beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}

```
            },
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Granted license metadata.</p>"
                }
            },
            "CreateTime": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Creation time of the granted license.</p>"

  }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Version of the granted license.</p>"
                }
            },
            "ReceivedMetadata": {
                "target": "com.amazonaws.licensemanager#ReceivedMetadata",
                "traits": {
                    "smithy.api#documentation": "<p>Granted license received metadata.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes a license that is granted to a grantee.</p>"
        }
    },
    "com.amazonaws.licensemanager#GrantedLicenseList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#GrantedLicense"
        }
    },
    "com.amazonaws.licensemanager#ISO8601DateTime":
{
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            },
            "smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-
1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[ 0-3]|[0-1][0-9]):[0-5][0-9])+$"
        }
```

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    },
    "com.amazonaws.licensemanager#Integer": {
        "type": "integer",
        "traits": {
            "smithy.api#box": {}
        }
    },
    "com.amazonaws.licensemanager#InvalidParameterValueException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidParameterValueProvided",

 "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>One or more parameter values are not valid.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InvalidResourceStateException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidResourceState",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n        <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
            "smithy.api#error": "client",
             "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InventoryFilter": {
        "type": "structure",
        "members": {
            "Name": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the filter. ",
"smithy.api#required": {}
}
},
"Condition": {
"target": "com.amazonaws.licensemanager#InventoryFilterCondition",
"traits": {
"smithy.api#documentation": " Condition of the filter. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Value
of the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " An inventory filter. "
}
},
"com.amazonaws.licensemanager#InventoryFilterCondition": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "EQUALS",
"name": "EQUALS"
},
{
"value": "NOT_EQUALS",
"name": "NOT_EQUALS"
},
{
"value": "BEGINS_WITH",
"name": "BEGINS_WITH"
},
{
"value": "CONTAINS",
"name": "CONTAINS"
}
]
}
},

"com.amazonaws.licensemanager#InventoryFilterList":
{
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#InventoryFilter"
}
},
"com.amazonaws.licensemanager#Issuer": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. ",
"smithy.api#required": {}
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
}
},
"traits": {

"smithy.api#documentation": " Details about the issuer of a license. "
}
},
"com.amazonaws.licensemanager#IssuerDetails": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. "
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
},

```
        "KeyFingerprint": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
    }
},
"com.amazonaws.licensemanager#License": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License name.</p>"
            }
        },
        "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product name.</p>"
            }
        },
        "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product SKU.</p>"
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>License issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the license.</p>"
```

```
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
             "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        },
        "Validity": {
            "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {
                "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>"
            }
        },
        "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License beneficiary.</p>"
            }
        },
        "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
            "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>"

         }
        },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
            }
        },
        "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
                "smithy.api#documentation": "<p>License metadata.</p>"
            }
        },
        "CreateTime": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>License creation time.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
```

"traits":
{
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#documentation": " Software license that is managed in License Manager. "
}
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
"type": "structure",
"members": {
"LicenseConfigurationId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Unique ID of the license configuration. "
}
},
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}

},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension to use to track the license inventory. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Number of available licenses as a hard limit. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "

}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the license configuration. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the license configuration's owner. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",

"traits": {
"smithy.api#documentation": " Summaries for licenses consumed by various resources. "
}
},

"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource

consuming licenses. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was associated with the resource. "
}
},
"AmiAssociationScope":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an association with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
}
},
"com.amazonaws.licensemanager#LicenseConfigurationStatus": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "AVAILABLE",
"name": "AVAILABLE"
},
{
"value": "DISABLED",
"name": "DISABLED"
}
]
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsage": {
"type": "structure",
"members": {
"ResourceArn": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of resource. "
}
},
"ResourceStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Status of the resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was initially associated with the resource. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}

},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"

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        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurations": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfiguration"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionContext": {
        "type": "structure",
        "members": {
            "UsageOperation": {
                "target": "com.amazonaws.licensemanager#UsageOperation",
                "traits": {
                    "smithy.api#documentation": "<p>The Usage operation value that corresponds
 to the license type you are converting your resource from.  For more information about which platforms correspond
to which usage operation values see <a href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-
info-fields.html#billing-info\">Sample data: usage operation by platform\n      </a>\n         </p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTask": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the license type conversion task.</p>"
                }
            },
            "ResourceArn":
 {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource associated
with the license type\n         conversion task.</p>"
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license type this conversion task converted
from.</p>"
                }
```

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            },
            "DestinationLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license type this conversion task converted
to.</p>"
                }
            },

  "Status": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
                "traits": {
                    "smithy.api#documentation": "<p>The status of the conversion task.</p>"
                }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
                }
            },
            "StartTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>The time the conversion task was started at.</p>"
                }
            },
            "LicenseConversionTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {

        "smithy.api#documentation": "<p>The time the usage operation value of the resource was changed.</p>"
                }
            },
            "EndTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTaskId": {
        "type": "string",
        "traits": {
```

```
            "smithy.api#length": {
                "min": 0,
                "max": 50
            },
            "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
        "type":
"string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "IN_PROGRESS",
                    "name": "IN_PROGRESS"
                },
                {
                    "value": "SUCCEEDED",
                    "name": "SUCCEEDED"
                },
                {
                    "value": "FAILED",
                    "name": "FAILED"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTasks": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTask"
        }
    },
    "com.amazonaws.licensemanager#LicenseCountingType": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "vCPU",
                    "name": "VCPU"

                },
                {
                    "value": "Instance",
                    "name": "INSTANCE"
                },
                {
                    "value": "Core",
```

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            "name": "CORE"
          },
          {
            "value": "Socket",
            "name": "SOCKET"
          }
        ]
      }
    },
    "com.amazonaws.licensemanager#LicenseDeletionStatus": {
      "type": "string",
      "traits": {
        "smithy.api#enum": [
          {
            "value": "PENDING_DELETE",
            "name": "PENDING_DELETE"
          },
          {
            "value": "DELETED",
            "name": "DELETED"
          }
        ]
      }
    },
    "com.amazonaws.licensemanager#LicenseList": {
      "type": "list",
       "member": {
        "target": "com.amazonaws.licensemanager#License"
      }
    },
    "com.amazonaws.licensemanager#LicenseOperationFailure": {
      "type": "structure",
      "members": {
        "ResourceArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
          }
        },
        "ResourceType": {
          "target": "com.amazonaws.licensemanager#ResourceType",
          "traits": {
            "smithy.api#documentation": "<p>Resource type.</p>"
          }
        },
        "ErrorMessage": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
```

"smithy.api#documentation": " Error message. "

}
},
"FailureTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Failure time. "
}
},
"OperationName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the operation. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource. "
}
},
"OperationRequestedBy": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " The requester is \"License Manager Automated Discovery\". "
}
},
"MetadataList": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Reserved. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the failure of a license operation. "
}
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailure"
}
},
"com.amazonaws.licensemanager#LicenseSpecification": {

"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseSpecification"
}
},
"com.amazonaws.licensemanager#LicenseStatus":
{
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "AVAILABLE",
"name": "AVAILABLE"
},
{
"value": "PENDING_AVAILABLE",
"name": "PENDING_AVAILABLE"
},
{
"value": "DEACTIVATED",
"name": "DEACTIVATED"
},
{
"value": "SUSPENDED",
"name": "SUSPENDED"

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                },
                {
                    "value": "EXPIRED",
                    "name": "EXPIRED"
                },
                {
                    "value": "PENDING_DELETE",
                    "name": "PENDING_DELETE"
                },
                {

                 "value": "DELETED",
                    "name": "DELETED"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#LicenseUsage": {
        "type": "structure",
        "members": {
            "EntitlementUsages": {
                "target": "com.amazonaws.licensemanager#EntitlementUsageList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlement usages.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes the entitlement usage associated with a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseUsageException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {

         "aws.protocols#awsQueryError": {
                "code": "LicenseUsageFailure",
                "httpResponseCode": 412
            },
            "smithy.api#documentation": "<p>You do not have enough licenses available to support a new resource
launch.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 412
```

```
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the resource associations for the specified license
configuration.</p> \n        <p>Resource associations need not consume licenses from a license configuration. \n
For example, an AMI or a stopped instance might not consume a license (depending on \n        the license
rules).</p>"
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest":
 {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
```

```
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationAssociations": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the associations for the license
configuration.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListDistributedGrants": {
        "type": "operation",
        "input": {
            "target":
 "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
```

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            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

             "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants distributed for the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
        "type": "structure",
        "members": {
            "GrantArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n
        <code>LicenseArn</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>GrantStatus</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>GranteePrincipalARN</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>ProductSKU</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>LicenseIssuerName</code>\n                </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
```

"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{

```
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the license configuration operations that failed.</p>"
    }
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
    "type": "structure",
    "members": {
        "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse": {
    "type": "structure",
    "members": {
        "LicenseOperationFailureList": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
            "traits": {
                "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
```

"com.amazonaws.licensemanager#ListLicenseConfigurations":
{
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},

{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configurations for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the license configurations. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "

```
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "Filters": {
            "target": "com.amazonaws.licensemanager#Filters",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n  are supported:</p>\n  <ul>\n  <li>\n  <p>\n  <code>licenseCountingType</code> - The dimension for which licenses are counted.\n  Possible values are <code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n  Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n  </li>\n  <li>\n  <p>\n
                <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement is used. \n  Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n  </li>\n  <li>\n  <p>\n  <code>usagelimitExceeded</code> - A Boolean value that indicates whether the available licenses have been exceeded. \n  Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n  </li>\n  </ul>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
        "type": "structure",
        "members": {
          "LicenseConfigurations": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurations",
            "traits": {
              "smithy.api#documentation": "<p>Information about the license configurations.</p>"

            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListLicenseConversionTasks": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
```

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
        "type": "structure",
        "members": {
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                 "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>\n        Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n      </p>"
                }
            }
```

```
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTasks": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configuration tasks for your
account.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },

    {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
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            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the report generators for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest": {
        "type":
 "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:
</p>\n        <ul>\n            <li>\n                <p>\n                <code>LicenseConfigurationArn</code>\n
</p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to
 return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
            "ReportGenerators": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorList",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            },
```

"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
"type": "operation",
"input":
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Describes the
license configurations for the specified resource. "
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a resource that has an
associated license configuration. ",
"smithy.api#required": {}

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            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",

         "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {
        "LicenseSpecifications": {
            "target": "com.amazonaws.licensemanager#LicenseSpecifications",
            "traits": {
                "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
     "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation":
"<p>Lists all versions of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum
number of results to return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
        "type": "structure",
        "members": {
            "Licenses": {
                "target": "com.amazonaws.licensemanager#LicenseList",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
```

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            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the licenses for your account.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicensesRequest": {
    "type": "structure",
    "members": {
        "LicenseArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
```

"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>Status</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {

"target": "com.amazonaws.licensemanager#LicenseList",
"traits": {
"smithy.api#documentation": " License details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListReceivedGrants": {
"type": "operation",

"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists grants that are received but not accepted. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
"type": "structure",

"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are

supported: \n \n \n \n <code>ProductSKU</code>\n \n
\n \n \n <code>LicenseIssuerName</code>\n \n
\n \n \n <code>LicenseArn</code>\n \n \n
\n \n
<code>GrantStatus</code>\n \n \n \n \n
<code>GranterAccountId</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {

"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Received grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"

},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists received licenses. "
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
"type": "structure",

"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>IssuerName</code>\n
\n \n \n \n <code>Beneficiary</code>\n \n \n "

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            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
    "type": "structure",
    "members": {
        "Licenses": {

"target": "com.amazonaws.licensemanager#GrantedLicenseList",
            "traits": {
                "smithy.api#documentation": "<p>Received license details.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListResourceInventory": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"

},
        {
```

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FailedDependencyException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists resources managed using Systems Manager inventory. "
}
},
"com.amazonaws.licensemanager#ListResourceInventoryRequest": {

"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#InventoryFilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>application_name</code> - The name of the application. \n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n \n \n \n <code>license_included</code> - The type of license included. \n Logical operators are

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<code>EQUALS</code> | <code>NOT_EQUALS</code>.\n            Possible values are <code>sql-server-enterprise</code> | \n            <code>sql-server-standard</code> | \n            <code>sql-server-web</code> |  \n        <code>windows-server-datacenter</code>.</p>\n          </li>\n          <li>\n            <p>\n <code>platform</code> - The platform of the resource.\n
    Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n          </li>\n <li>\n            <p>\n              <code>resource_id</code> - The ID of the resource. \n            Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n          </li>\n          <li>\n            <p>\n          <code>tag:<key></code> - The key/value combination of a tag assigned \n            to the resource. Logical operators are <code>EQUALS</code> (single account) or\n            <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account).</p>\n          </li>\n        </ul>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryResponse": {
        "type": "structure",
        "members": {
            "ResourceInventoryList": {
                "target": "com.amazonaws.licensemanager#ResourceInventoryList",
                "traits":
 {
                    "smithy.api#documentation": "<p>Information about the resources.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
```

"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the tags for the specified license configuration. "
}
},
"com.amazonaws.licensemanager#ListTagsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required":
{}
}
}
}
},
"com.amazonaws.licensemanager#ListTagsForResourceResponse": {
"type": "structure",
"members": {
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Information about the tags. "
}
}
}
},
"com.amazonaws.licensemanager#ListTokens": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListTokensRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListTokensResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target":
"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists your tokens. "
}
},
"com.amazonaws.licensemanager#ListTokensRequest": {
"type": "structure",
"members": {
"TokenIds": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " Token IDs. "
}
},
"Filters": {
"target":
"com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filter is supported: \n
\n \n \n <code>LicenseArns</code>\n \n \n
"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "

```
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListTokensResponse":
{
        "type": "structure",
        "members": {
            "Tokens": {
                "target": "com.amazonaws.licensemanager#TokenList",
                "traits": {
                    "smithy.api#documentation": "<p>Received token details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
```

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying license\n        consumption details by resource
 at a selected point in time. Use this action to audit the\n        current license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {

                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>resourceArn</code> - The ARN of the license configuration resource.\n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>).
 \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>resourceAccount</code> - The ID of the account that owns the resource. \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
                }
```

```
        }
    }
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
    "type": "structure",
    "members": {
        "LicenseConfigurationUsageList": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license configurations.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#Location": {
    "type": "string"
},
"com.amazonaws.licensemanager#Long": {
    "type": "long",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummary": {
    "type": "structure",
    "members": {
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
            }
        },
        "AssociationCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                 "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
```

```
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {
    "type": "integer",
    "traits": {
        "smithy.api#box": {},
        "smithy.api#range": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
     },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The key name.</p>"
            }
        },
        "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The value.</p>"
            }
        }
    },
```

"traits": {
"smithy.api#documentation": " Describes key/value pairs. "
}

},
"com.amazonaws.licensemanager#MetadataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Metadata"
}
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#OrganizationConfiguration": {
"type": "structure",
"members": {
"EnableIntegration": {
"target": "com.amazonaws.licensemanager#Boolean",

"traits": {
"smithy.api#documentation": " Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {

"min": 1,
"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n
Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n
Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n
\n \n The following filters and logical operators are supported when the resource type\n

is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n
<code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n \n ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information for a license configuration. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
"type": "structure",
"members": {
"ProductInformationFilterName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Filter name. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterValue": {
"target":
"com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " Filter value. "
}
},
"ProductInformationFilterComparator": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Logical operator. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information filters. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
"type": "list",
"member": {

"target": "com.amazonaws.licensemanager#ProductInformationFilter"
}
},
"com.amazonaws.licensemanager#ProductInformationList": {
"type": "list",

"member": {
"target": "com.amazonaws.licensemanager#ProductInformation"
}
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
"type": "structure",
"members": {
"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the provisional configuration, in minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"com.amazonaws.licensemanager#RateLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"

}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "RateLimitExceeded",
"httpResponseCode": 429
},
"smithy.api#documentation": " Too many requests have been submitted. Try again after a brief wait. ",
"smithy.api#error": "client",
"smithy.api#httpError": 429
}
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
"type": "structure",
"members": {
"ReceivedStatus": {

"target": "com.amazonaws.licensemanager#ReceivedStatus",
"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {

"smithy.api#documentation": " Received status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations. "
}
}
},
"traits": {
"smithy.api#documentation": " Metadata associated with received licenses and grants. "
}
},
"com.amazonaws.licensemanager#ReceivedStatus": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "PENDING_WORKFLOW",
"name": "PENDING_WORKFLOW"
},
{
"value": "PENDING_ACCEPT",
"name": "PENDING_ACCEPT"
},
{
"value": "REJECTED",
"name": "REJECTED"
},
{
"value": "ACTIVE",
"name": "ACTIVE"
},
{
"value": "FAILED_WORKFLOW",
"name": "FAILED_WORKFLOW"
},
{

"value": "DELETED",
"name": "DELETED"
},
{
"value": "DISABLED",
"name": "DISABLED"
},
{
"value": "WORKFLOW_COMPLETED",
"name": "WORKFLOW_COMPLETED"
}
]
}
},
"com.amazonaws.licensemanager#RedirectException": {
"type": "structure",
"members": {

"Location": {
"target": "com.amazonaws.licensemanager#Location",
"traits": {
"smithy.api#httpHeader": "Location"
}
},
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " This is not the correct Region for the resource. Try again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 308
}
},
"com.amazonaws.licensemanager#RejectGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#RejectGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#RejectGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"

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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest":
{
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
```

```
            }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#RenewType": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "None",
                    "name": "NONE"
                },
                {
                    "value": "Weekly",
                    "name": "WEEKLY"
                },
                {
                    "value": "Monthly",
                    "name": "MONTHLY"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#ReportContext": {
        "type": "structure",
        "members": {

  "licenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration that
this generator reports on.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details of the license configuration that this generator reports on.</p>"
        }
    },
    "com.amazonaws.licensemanager#ReportFrequency": {
        "type": "structure",
```

"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "

}
},
"period": {
"target": "com.amazonaws.licensemanager#ReportFrequencyType",
"traits": {
"smithy.api#documentation": " Time period between each report. The period can be daily, weekly, or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"com.amazonaws.licensemanager#ReportFrequencyType": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "DAY",
"name": "DAY"
},
{
"value": "WEEK",
"name": "WEEK"
},
{
"value": "MONTH",

"name": "MONTH"
}
]
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the report generator. "

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        }
    },
    "ReportType": {
        "target": "com.amazonaws.licensemanager#ReportTypeList",
        "traits": {
            "smithy.api#documentation": "<p>Type of reports that are generated.</p>"
        }
    },
    "ReportContext": {
        "target": "com.amazonaws.licensemanager#ReportContext",
        "traits": {
            "smithy.api#documentation": "<p>License configuration type for this generator.</p>"
         }
    },
    "ReportFrequency": {
        "target": "com.amazonaws.licensemanager#ReportFrequency",
        "traits": {
            "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
        }
    },
    "LicenseManagerReportGeneratorArn": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>"
        }
    },
    "LastRunStatus": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Status of the last report generation attempt.</p>"
        }
    },
    "LastRunFailureReason": {

  "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Failure message for the last report generation attempt.</p>"
        }
    },
    "LastReportGenerationTime": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Time the last report was generated at.</p>"
        }
    },
    "ReportCreatorAccount": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
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"smithy.api#documentation": " The Amazon Web Services account ID used to create the report generator. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the report was created. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags associated with the report generator. "
}
}
},

"traits": {
"smithy.api#documentation": " Describe the details of a report generator. "
}
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportGenerator"
}
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100

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        }
    }
},
"com.amazonaws.licensemanager#ReportType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "LicenseConfigurationSummaryReport",
                "name": "LICENSE_CONFIGURATION_SUMMARY_REPORT"
            },
            {
                "value": "LicenseConfigurationUsageReport",
                 "name": "LICENSE_CONFIGURATION_USAGE_REPORT"
            }
        ]
    }
},
"com.amazonaws.licensemanager#ReportTypeList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportType"
    }
},
"com.amazonaws.licensemanager#ResourceInventory": {
    "type": "structure",
    "members": {
        "ResourceId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>ID of the resource.</p>"
            }
        },
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Type of resource.</p>"
            }
        },
         "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
        },
        "Platform": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
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"smithy.api#documentation": " Platform of the resource. "
}
},
"PlatformVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Platform version of the resource in the inventory. "
}
},
"ResourceOwningAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation":
" ID of the account that owns the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a resource. "
}
},
"com.amazonaws.licensemanager#ResourceInventoryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ResourceInventory"
}
},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ResourceLimitExceeded",
"httpResponseCode": 400
},
"smithy.api#documentation": " Your resource limits have
been exceeded. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
"type": "structure",
"members": {

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        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "InvalidResource.NotFound",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The resource cannot be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "EC2_INSTANCE",
                 "name": "EC2_INSTANCE"
            },
            {
                "value": "EC2_HOST",
                "name": "EC2_HOST"
            },
            {
                "value": "EC2_AMI",
                "name": "EC2_AMI"
            },
            {
                "value": "RDS",
                "name": "RDS"
            },
            {
                "value": "SYSTEMS_MANAGER_MANAGED_INSTANCE",
                "name": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
            }
        ]
    }
},
"com.amazonaws.licensemanager#S3Location": {
    "type": "structure",
    "members": {
        "bucket": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the S3 bucket
```

reports are published to. "
}
},
"keyPrefix": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Prefix of the S3 bucket reports are published to. "
}
}
},
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InternalError",
"httpResponseCode": 500
},
"smithy.api#documentation": " The server experienced an internal error. Try again. ",
"smithy.api#error": "server",
"smithy.api#httpError": 500
}
},
"com.amazonaws.licensemanager#SignedToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 4096
}
}
},
"com.amazonaws.licensemanager#StatusReasonMessage": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 400
},

```
            "smithy.api#pattern": "^[\\s\\S]+$"
        }
    },
    "com.amazonaws.licensemanager#String": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"

      }
    },
    "com.amazonaws.licensemanager#Tag": {
        "type": "structure",
        "members": {
            "Key": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag key.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#TagList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Tag"
        }
    },
    "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
```

"input": {
"target": "com.amazonaws.licensemanager#TagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#TagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},

{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Adds the specified tags to the specified license configuration. "
}
},
"com.amazonaws.licensemanager#TagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " One or more tags. ",
"smithy.api#required": {}
}
}
}

```
    },
    "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
            "TokenType": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>"
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "ExpirationTime": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Token expiration time, in ISO8601-UTC format.</p>"
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Data specified by the caller.</p>"
                }
            },
            "RoleArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the roles included in the
token.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a token. "
}
},
"com.amazonaws.licensemanager#TokenList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#TokenData"
}
},
"com.amazonaws.licensemanager#TokenString": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 4096
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#TokenType": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "REFRESH_TOKEN",
"name": "REFRESH_TOKEN"
}
]
}
},
"com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The digital signature method is unsupported. Try your request again. ",

"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#UntagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UntagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Removes the specified tags from the specified license configuration. "
}
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",

```
            "traits": {
                "smithy.api#documentation": "<p>Keys identifying the tags to remove.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
    "type": "structure",
    "members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {

    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
    }
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
    "type": "structure",
    "members": {
        "LicenseConfigurationArn": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"LicenseConfigurationStatus": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
"traits": {
"smithy.api#documentation": " New status of the license configuration. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " New license rule. The only rule that you can add after you create a license\n configuration is licenseAffinityToHost. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " New number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}

},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",

"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},

{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates a report generator. \n After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated. "

}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to update. ",
"smithy.api#required": {}
}
},
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types are supported: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " The report context. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",

"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#InvalidResourceStateException"

```
        },
            {
                "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p> \n        <p>You can update the license specifications of AMIs, instances, and
hosts.\n        You cannot update the license specifications for launch templates and CloudFormation templates, \n
  as they send license configurations to the operation that creates the resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
        "type": "structure",
         "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "AddLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
                }
            },
            "RemoveLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to remove.</p>"
                }
            }
         }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#UpdateServiceSettings": {
```

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Updates License Manager settings for the current Region. "
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
"type": "structure",
"members": {
"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon S3 bucket where the License Manager information is stored. "
}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {

"smithy.api#documentation": " Enables integration with Organizations for cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Activates cross-account discovery. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UsageOperation": {
"type":
"string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
}
}
},
"com.amazonaws.licensemanager#ValidationException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The provided input is not valid. Try your request again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
}
}
}

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string
```

```
 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 //
 Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
```

```
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err
!= nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
```

```
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return
 nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
```

```
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
```

```
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
 err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
```

```
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

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package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if
 err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
```

```
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}
```

1.4211 contrib-propagators-autoprop 0.38.0

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1.4212 collector-pdata 1.14.1

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1.4213 go-ntlmssp 0.0.0-20220621081337-cb9428e4ac1e

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1.4214 collector-semconv 0.108.1

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1.4215 genproto-googleapis-rpc 0.0.0-20230717213848-3f92550aa753

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1.4217 exporter-toolkit 0.12.0

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1.4219 go-shortid 0.0.0-20171029131806-771a37caa5cf

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1.4220 gosqlite 1.14.19

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1.4221 go-metrics 0.3.3

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1.4222 golang-genproto 0.0.0-20240205150955-31a09d347014

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1.4223 sqlite 3.44.0

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1.4224 contrib-propagators-jaeger 1.13.0

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1.4225 opentelemetry-operations-go-internal-resourcemapping 0.32.3

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1.4226 protoreflect 1.8.3-0.20210616212123-6cc1efa697ca

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1.4227 aws-sdk-go-v2-feature-ec2-imds 1.12.3

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```
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package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
```

```
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
```

```
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
if err != nil {
 return
err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
```

```
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
```

```
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err
 = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
```

```
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
```

```
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
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  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack,
 options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
```

```
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil
 {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]
```

```
  steps:
    - name: Checkout target
      uses: actions/checkout@v2
      with:
        path: sdkbase
        ref: ${{ github.base_ref }}
    - name: Checkout this ref
      uses: actions/checkout@v2
      with:
        path: new-ref
        fetch-depth: 0
    - name: Get Diff
      run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
    - name: Get Target Files
      run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
       uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement
```

```
 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity *types.DatetimeRange

 //
 Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string
```

```
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
```

```
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
```

```
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
```

```
 middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
```

```
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
```

```
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack,
options); err != nil {
 return err
}
return nil
```

```
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}
```

AWS SDK for Go

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```
{
  "smithy": "1.0",
  "metadata": {
    "suppressions": [
      {
        "id": "HttpMethodSemantics",
        "namespace": "*"
      },
      {
        "id": "HttpResponseCodeSemantics",
        "namespace": "*"
      },
      {
        "id": "PaginatedTrait",
        "namespace": "*"
      },
      {
        "id": "HttpHeaderTrait",
        "namespace": "*"
      },
      {
        "id": "HttpUriConflict",
        "namespace": "*"
      },
      {
        "id": "Service",
        "namespace": "*"
      }
    ]
  },
  "shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
      "type": "service",
      "version": "2018-08-01",
      "operations": [
```

{
"target": "com.amazonaws.licensemanager#AcceptGrant"
},

{
"target": "com.amazonaws.licensemanager#CheckInLicense"
},
{
"target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
},
{
"target": "com.amazonaws.licensemanager#CheckoutLicense"
},
{
"target": "com.amazonaws.licensemanager#CreateGrant"
},
{
"target": "com.amazonaws.licensemanager#CreateGrantVersion"
},
{
"target": "com.amazonaws.licensemanager#CreateLicense"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseVersion"
},
{
"target": "com.amazonaws.licensemanager#CreateToken"
},
{
"target": "com.amazonaws.licensemanager#DeleteGrant"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicense"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"

```
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteToken"
    },
    {
      "target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

  },
    {
      "target": "com.amazonaws.licensemanager#GetAccessToken"
    },
    {
      "target": "com.amazonaws.licensemanager#GetGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseUsage"
    },
    {
      "target": "com.amazonaws.licensemanager#GetServiceSettings"
    },
    {
      "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#ListDistributedGrants"
    },
    {
      "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
    },
    {
      "target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
    },
    {
      "target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
    },
    {
```

"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
"target": "com.amazonaws.licensemanager#ListLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

"target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListResourceInventory"
},
{
"target": "com.amazonaws.licensemanager#ListTagsForResource"
},
{
"target": "com.amazonaws.licensemanager#ListTokens"
},
{
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#RejectGrant"
},
{
"target": "com.amazonaws.licensemanager#TagResource"
},
{
"target": "com.amazonaws.licensemanager#UntagResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
},

{
"target": "com.amazonaws.licensemanager#UpdateServiceSettings"
}
],
"traits": {
"aws.api#service": {
"sdkId": "License Manager",
"arnNamespace": "license-manager",
"cloudFormationName": "LicenseManager",
"cloudTrailEventSource": "licensemanager.amazonaws.com",
"endpointPrefix":
"license-manager"
},
"aws.auth#sigv4": {
"name": "license-manager"
},
"aws.protocols#awsJson1_1": {},
"smithy.api#documentation": " License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers. ",
"smithy.api#title": "AWS License Manager",
"smithy.api#xmlNamespace": {
"uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
}
}
},
"com.amazonaws.licensemanager#AcceptGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#AcceptGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#AcceptGrantResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{

"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Accepts the specified grant. "
}
},
"com.amazonaws.licensemanager#AcceptGrantRequest":
{
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#AcceptGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant
status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}

```
        }
    },
    "com.amazonaws.licensemanager#AccessDeniedException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ServiceAccessDenied",
                "httpResponseCode": 401
            },
            "smithy.api#documentation": "<p>Access to resource denied.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 401
        }
    },
    "com.amazonaws.licensemanager#AllowedOperation":
{
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "CreateGrant",
                    "name": "CREATE_GRANT"
                },
                {
                    "value": "CheckoutLicense",
                    "name": "CHECKOUT_LICENSE"
                },
                {
                    "value": "CheckoutBorrowLicense",
                    "name": "CHECKOUT_BORROW_LICENSE"
                },
                {
                    "value": "CheckInLicense",
                    "name": "CHECK_IN_LICENSE"
                },
                {
                    "value": "ExtendConsumptionLicense",
                    "name": "EXTEND_CONSUMPTION_LICENSE"
                },
                {
                    "value": "ListPurchasedLicenses",
                    "name": "LIST_PURCHASED_LICENSES"
```

```
                },
                {
                    "value": "CreateToken",
                    "name": "CREATE_TOKEN"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#AllowedOperationList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#AllowedOperation"
        },
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max": 7
            }
        }
    },
    "com.amazonaws.licensemanager#Arn": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 2048
            },
            "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
        }
    },
    "com.amazonaws.licensemanager#ArnList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Arn"
        }
    },
    "com.amazonaws.licensemanager#AuthorizationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "AuthorizationFailure",
                "httpResponseCode": 403
```

```
            },
            "smithy.api#documentation": "<p>The Amazon Web Services user account does not have permission to
perform the action. Check the IAM\n        policy associated with this account.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 403
        }
    },
    "com.amazonaws.licensemanager#AutomatedDiscoveryInformation":
 {
        "type": "structure",
        "members": {
            "LastRunTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes automated discovery.</p>"
        }
    },
    "com.amazonaws.licensemanager#Boolean": {
        "type": "boolean"
    },
    "com.amazonaws.licensemanager#BorrowConfiguration": {
        "type": "structure",
        "members": {
            "AllowEarlyCheckIn": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether early check-ins are allowed.</p>",
                     "smithy.api#required": {}
                }
            },
            "MaxTimeToLiveInMinutes": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#BoxBoolean": {
```

"type": "boolean",
"traits": {
"smithy.api#box": {}
}
},
"com.amazonaws.licensemanager#BoxInteger": {
"type": "integer",
"traits": {
"smithy.api#box": {}
}
},
"com.amazonaws.licensemanager#BoxLong": {

"type": "long",
"traits": {
"smithy.api#box": {}
}
},
"com.amazonaws.licensemanager#CheckInLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},

```
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",

        "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },

 {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
```

"smithy.api#required": {}
}
},
"DigitalSignatureMethod": {
"target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
"traits": {
"smithy.api#documentation": " Digital signature method. The possible value is JSON Web Signature (JWS) algorithm PS384.\n For more information, see RFC 7518 Digital Signature with RSASSA-PSS. ",
"smithy.api#required": {}
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",

"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " Allowed license entitlements. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"SignedToken": {

"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation":
" Information about constraints. "
}
}
}
},
"com.amazonaws.licensemanager#CheckoutLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
},

"output": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks out the specified license. "
}
},
"com.amazonaws.licensemanager#CheckoutLicenseRequest": {
"type": "structure",
"members": {
"ProductSKU":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. ",

"smithy.api#required": {}
}
},
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. ",
"smithy.api#required": {}
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Key fingerprint identifying the license. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Node ID. "
}
}
}
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {

```
        "type": "structure",
        "members": {
          "CheckoutType": {
            "target": "com.amazonaws.licensemanager#CheckoutType",
            "traits": {
              "smithy.api#documentation": "<p>Checkout type.</p>"
            }
          },
          "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License consumption token.</p>"
            }
          },
          "EntitlementsAllowed": {
            "target": "com.amazonaws.licensemanager#EntitlementDataList",
            "traits": {
              "smithy.api#documentation":
"<p>Allowed license entitlements.</p>"
            }
          },
          "SignedToken": {
            "target": "com.amazonaws.licensemanager#SignedToken",
            "traits": {
              "smithy.api#documentation": "<p>Signed token.</p>"
            }
          },
          "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Node ID.</p>"
            }
          },
          "IssuedAt": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
            }
          },
          "Expiration": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",

           "traits": {
              "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
            }
          },
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#String",
```

```
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CheckoutType": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "PROVISIONAL",
                    "name": "PROVISIONAL"
                },
                {
                    "value": "PERPETUAL",
                    "name": "PERPETUAL"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#ClientRequestToken":
{
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max": 36
            }
        }
    },
    "com.amazonaws.licensemanager#ClientToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 2048
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
    "com.amazonaws.licensemanager#ConflictException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
```

"traits": {
"aws.protocols#awsQueryError": {
"code": "ConflictException",
"httpResponseCode": 409
},
"smithy.api#documentation": " There
was a conflict processing the request. Try your request again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 409
}
},
"com.amazonaws.licensemanager#ConsumedLicenseSummary": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Resource type of the resource consuming a license. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about license consumption. "
}
},
"com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
}
},
"com.amazonaws.licensemanager#ConsumptionConfiguration": {
"type": "structure",
"members": {
"RenewType": {
"target": "com.amazonaws.licensemanager#RenewType",
"traits": {
"smithy.api#documentation": " Renewal frequency. "
}
},
"ProvisionalConfiguration": {
"target": "com.amazonaws.licensemanager#ProvisionalConfiguration",

```
            "traits": {
                "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
            }
        },
        "BorrowConfiguration": {

            "target": "com.amazonaws.licensemanager#BorrowConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
    }
},
"com.amazonaws.licensemanager#CreateGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },

    {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
```

"traits": {
"smithy.api#documentation": " Creates a grant for the specified license. A grant shares the use of license entitlements with specific Amazon Web Services accounts. "
}
},
"com.amazonaws.licensemanager#CreateGrantRequest": {
"type": "structure",
"members": {

"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},

"Principals": {
"target": "com.amazonaws.licensemanager#PrincipalArnList",
"traits": {
"smithy.api#documentation": " The grant principals. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",

```
            "traits": {
                "smithy.api#documentation": "<p>Allowed operations for the grant.</p>",
                "smithy.api#required": {}
            }
        }
    }
  },
  "com.amazonaws.licensemanager#CreateGrantResponse":
{
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    }
  },
  "com.amazonaws.licensemanager#CreateGrantVersion": {
    "type": "operation",
    "input": {

 "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
```

"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a new version of the specified grant. "
}
},
"com.amazonaws.licensemanager#CreateGrantVersionRequest": {
"type": "structure",
"members": {
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. "

```
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "StatusReason": {
            "target": "com.amazonaws.licensemanager#StatusReasonMessage",

         "traits": {
              "smithy.api#documentation": "<p>Grant status reason.</p>"
            }
          },
          "SourceVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Current version of the grant.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#CreateGrantVersionResponse": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant
status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>New version of the grant.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#CreateLicense": {
```

```
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a license.</p>"
    }
},
"com.amazonaws.licensemanager#CreateLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license configuration.</p> \n        <p>A license configuration is an abstraction of a customer license
 agreement that can be\n        consumed and enforced by License Manager. Components include specifications for the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), license affinity  to host (how long a \n        license must be associated with a host), and the number of licenses purchased and used.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Description of the license configuration.</p>"
                }
            },
            "LicenseCountingType": {
                "target": "com.amazonaws.licensemanager#LicenseCountingType",
                "traits": {
                    "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
```

"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {

"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows. \n \n \n \n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n <code>licenseAffinityToHost</code> |\n <code>maximumCores</code> | <code>minimumCores</code>\n \n \n \n \n <code>Instances</code> dimension: <code>allowedTenancy</code> | \n <code>maximumCores</code> | <code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n \n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n <code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code>\n \n \n \n \n <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n <code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the license configuration. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
},

"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits":
{
"smithy.api#documentation": " Product information. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],

"traits": {
"smithy.api#documentation": " Creates a new license conversion task. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest":
{
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource you are converting the license type for. ",
"smithy.api#required": {}
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting from. \n For the structure of the source license, see Convert a license type using the AWS CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting to. For the structure of the destination license, see Convert a license type using the AWS CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the created license type conversion task. "
}
}
}

```
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "ReportGeneratorName": {
                "target":
"com.amazonaws.licensemanager#ReportGeneratorName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>",
                    "smithy.api#required": {}
```

```
            }
        },
        "Type": {
            "target": "com.amazonaws.licensemanager#ReportTypeList",
            "traits": {
                "smithy.api#documentation": "<p>Type of reports to generate. The following report types an be generated:</p>\n <ul>\n <li>\n <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p>\n </li>\n <li>\n <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n </li>\n </ul>",
                "smithy.api#required": {}
            }
        },

    "ReportContext": {
            "target": "com.amazonaws.licensemanager#ReportContext",
            "traits": {
                "smithy.api#documentation": "<p>Defines the type of license configuration the report generator tracks.</p>",
                "smithy.api#required": {}
            }
        },
        "ReportFrequency": {
            "target": "com.amazonaws.licensemanager#ReportFrequency",
            "traits": {
                "smithy.api#documentation": "<p>Frequency by which reports are generated.  Reports can be generated daily, monthly, or weekly.</p>",
                "smithy.api#required": {}
            }
        },
        "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientRequestToken",
            "traits": {
                "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                "smithy.api#required": {}
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the report generator.</p>"
            }
        },
        "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
                "smithy.api#documentation": "<p>Tags to add to the report generator.</p>"
```

```
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits":
 {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the new report
generator.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "Issuer": {
                "target": "com.amazonaws.licensemanager#Issuer",
                "traits": {
                    "smithy.api#documentation": "<p>License issuer.</p>",
                    "smithy.api#required": {}
                }
            },
```

"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region for the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation":
" Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {

"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {

"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}

}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{

"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a new version of the specified license. "
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",

"traits": {
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation":
" Home Region of the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. ",
"smithy.api#required": {}

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                }
            },
            "ClientToken": {
                "target":
 "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>License ARN.</p>"
                }
            },

          "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>New version of the license.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateToken": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateTokenRequest"
        },
```

"output": {
"target": "com.amazonaws.licensemanager#CreateTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a long-lived token. \n A refresh token is a JWT token used to get an access token. With an access token,\n you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n call License Manager to manage the specified license. "
}
},
"com.amazonaws.licensemanager#CreateTokenRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n JWT token. ",
"smithy.api#required": {}
}
},
"RoleArns": {

"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n License Manager does not check whether the roles are in use. "
}
},
"ExpirationInDays": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Token expiration, in days, counted from token creation. The default is 365 days. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller to be included in the JWT token. The data is mapped\n to the amr claim of the JWT token. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Idempotency token, valid for 10 minutes. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CreateTokenResponse": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. "
}
},
"TokenType": {
"target": "com.amazonaws.licensemanager#TokenType",
"traits": {
"smithy.api#documentation": " Token type. "
}
},
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {

"smithy.api#documentation": " Refresh token,
encoded as a JWT token. "
}
}
}
},
"com.amazonaws.licensemanager#DateTime": {
"type": "timestamp"
},
"com.amazonaws.licensemanager#DatetimeRange": {
"type": "structure",
"members": {
"Begin": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Start of the time range. ",
"smithy.api#required": {}
}
},
"End": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " End of the time range. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a time range, in ISO8601-UTC
format. "
}
},
"com.amazonaws.licensemanager#DeleteGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"

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        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

    },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Deletes the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#DeleteGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "StatusReason": {
            "target": "com.amazonaws.licensemanager#StatusReasonMessage",
            "traits": {

    "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Current version of the grant.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanager#DeleteGrantResponse": {
    "type": "structure",
    "members": {
```

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            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation":
"<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#DeleteLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
         },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license configuration.</p> \n        <p>You cannot
delete a license configuration
 that is in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

"smithy.api#documentation": " ID of the license configuration. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified report generator. \n This action deletes the report generator, which stops it from generating future reports.\n The action cannot be reversed. It

has no effect on the previous reports from this generator. "
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to be deleted. ",
                    "smithy.api#required": {}
                }
            }
        }
    },

 "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#DeleteLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " Current version of the license. ",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseResponse": {
        "type": "structure",
        "members": {
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
                "traits": {
                    "smithy.api#documentation": " License status. "

```
            }
        },
        "DeletionDate": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date when the license is deleted.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#DeleteToken": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
    },
    "errors": [
        {

  "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
    }
```

```
},
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#DigitalSignatureMethod": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "JWT_PS384",
                    "name": "JWT_PS384"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#Entitlement": {
        "type": "structure",

  "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement name.</p>",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement resource. Use only if the unit is None.</p>"
                }
            },
            "MaxCount": {
                "target": "com.amazonaws.licensemanager#Long",
                "traits": {
```

"smithy.api#documentation": " Maximum entitlement count. Use if the unit is not None. "
}
},
"Overage": {
"target": "com.amazonaws.licensemanager#BoxBoolean",

"traits": {
"smithy.api#documentation": " Indicates whether overages are allowed. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementUnit",
"traits": {
"smithy.api#documentation": " Entitlement unit. ",
"smithy.api#required": {}
}
},
"AllowCheckIn": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether check-ins are allowed. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a resource entitled for use with a license. "
}
},
"com.amazonaws.licensemanager#EntitlementData": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data value. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {
"smithy.api#documentation": " Entitlement data unit. ",

"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Data associated
with an entitlement resource. "
}
},
"com.amazonaws.licensemanager#EntitlementDataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#EntitlementData"
}
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "Count",
"name": "COUNT"
},
{
"value": "None",
"name": "NONE"
},
{
"value": "Seconds",
"name": "SECONDS"
},
{
"value": "Microseconds",
"name": "MICROSECONDS"
},
{

"value": "Milliseconds",
"name": "MILLISECONDS"
},
{
"value": "Bytes",
"name": "BYTES"
},
{
"value": "Kilobytes",
"name": "KILOBYTES"
},

```
{
   "value": "Megabytes",
   "name": "MEGABYTES"
},
{
   "value": "Gigabytes",
   "name": "GIGABYTES"
},
{
   "value": "Terabytes",
   "name": "TERABYTES"
},
{
   "value": "Bits",
   "name": "BITS"
},
{
   "value": "Kilobits",
   "name": "KILOBITS"
},
{
   "value": "Megabits",
   "name": "MEGABITS"
},
{
   "value": "Gigabits",
   "name": "GIGABITS"
},
{
   "value": "Terabits",
   "name": "TERABITS"
},
{
   "value": "Percent",
   "name": "PERCENT"
},
{
   "value": "Bytes/Second",
   "name": "BYTES_PER_SECOND"
},
{
   "value": "Kilobytes/Second",
   "name": "KILOBYTES_PER_SECOND"
},
{
   "value": "Megabytes/Second",
   "name": "MEGABYTES_PER_SECOND"
```

```
},
            {
                "value": "Gigabytes/Second",
                "name": "GIGABYTES_PER_SECOND"
            },
            {
                "value": "Terabytes/Second",
                "name": "TERABYTES_PER_SECOND"
            },
            {
                "value": "Bits/Second",
                "name": "BITS_PER_SECOND"
            },
            {
                "value": "Kilobits/Second",
                "name": "KILOBITS_PER_SECOND"
            },
            {
                "value": "Megabits/Second",
                "name": "MEGABITS_PER_SECOND"
            },
            {
                "value": "Gigabits/Second",
                "name": "GIGABITS_PER_SECOND"
            },
            {
                "value": "Terabits/Second",

    "name": "TERABITS_PER_SECOND"
            },
            {
                "value": "Count/Second",
                "name": "COUNT_PER_SECOND"
            }
        ]
    }
},
"com.amazonaws.licensemanager#EntitlementList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Entitlement"
    }
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
```

```
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#EntitlementUnit": {

 "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "Count",
                "name": "COUNT"
            },
            {
                "value": "None",
                "name": "NONE"
            },
            {
                "value": "Seconds",
                "name": "SECONDS"
            },
            {
                "value": "Microseconds",
                "name": "MICROSECONDS"
            },
            {
                "value": "Milliseconds",
                "name": "MILLISECONDS"
            },
            {
                "value": "Bytes",
                "name": "BYTES"
            },
            {
                "value": "Kilobytes",
                "name": "KILOBYTES"

    },
            {
                "value": "Megabytes",
                "name": "MEGABYTES"
            },
            {
                "value": "Gigabytes",
```

"name": "GIGABYTES"
},
{
"value": "Terabytes",
"name": "TERABYTES"
},
{
"value": "Bits",
"name": "BITS"
},
{
"value": "Kilobits",
"name": "KILOBITS"
},
{
"value": "Megabits",
"name": "MEGABITS"
},
{
"value": "Gigabits",
"name": "GIGABITS"
},
{
"value": "Terabits",
"name": "TERABITS"
},
{
"value": "Percent",
"name": "PERCENT"
},
{
"value": "Bytes/Second",
"name": "BYTES_PER_SECOND"
},
{
"value": "Kilobytes/Second",
"name": "KILOBYTES_PER_SECOND"
},
{
"value": "Megabytes/Second",
"name": "MEGABYTES_PER_SECOND"
},
{
"value": "Gigabytes/Second",
"name": "GIGABYTES_PER_SECOND"
},
{
"value": "Terabytes/Second",

"name": "TERABYTES_PER_SECOND"
},
{

"value": "Bits/Second",
"name": "BITS_PER_SECOND"
},
{
"value": "Kilobits/Second",
"name": "KILOBITS_PER_SECOND"
},
{
"value": "Megabits/Second",
"name": "MEGABITS_PER_SECOND"
},
{
"value": "Gigabits/Second",
"name": "GIGABITS_PER_SECOND"
},
{
"value": "Terabits/Second",
"name": "TERABITS_PER_SECOND"
},
{
"value": "Count/Second",
"name": "COUNT_PER_SECOND"
}
]
}
},
"com.amazonaws.licensemanager#EntitlementUsage": {
"type": "structure",

"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement usage name. ",
"smithy.api#required": {}
}
},
"ConsumedValue": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Resource usage consumed. ",
"smithy.api#required": {}
}
},

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        "MaxCount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
             "traits": {
                "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
    }
},
"com.amazonaws.licensemanager#EntitlementUsageList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#EntitlementUsage"
    }
},
"com.amazonaws.licensemanager#ExtendLicenseConsumption": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
    },
    "errors": [
        {

    "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}
                }
            },
            "DryRun": {
                "target": "com.amazonaws.licensemanager#Boolean",
                "traits": {
                    "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
        "type": "structure",

        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>"
                }
            },
            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
                }
            }
        }
```

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    },
    "com.amazonaws.licensemanager#FailedDependencyException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            },
            "ErrorCode": {
                "target": "com.amazonaws.licensemanager#String"
            }
        },

     "traits": {
            "aws.protocols#awsQueryError": {
                "code": "FailedDependency",
                "httpResponseCode": 424
            },
            "smithy.api#documentation": "<p>A dependency required to run the API is missing.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 424
        }
    },
    "com.amazonaws.licensemanager#Filter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#FilterName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the filter. Filter names are case-sensitive.</p>"
                }
            },
            "Values": {
                "target": "com.amazonaws.licensemanager#FilterValues",
                "traits": {
                    "smithy.api#documentation": "<p>Filter values. Filter
 values are case-sensitive.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A filter name and value pair that is used to return more specific results
from a\n        describe operation. Filters can be used to match a set of resources by specific criteria,\n        such as
tags, attributes, or IDs.</p>"
        }
    },
    "com.amazonaws.licensemanager#FilterLimitExceededException": {
        "type": "structure",
        "members": {
```

"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FilterLimitExceeded",
"httpResponseCode": 400
},
"smithy.api#documentation": " The request uses too many filters or too many filter values. ",
"smithy.api#error":
"client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter"
}
},
"com.amazonaws.licensemanager#FilterName": {
"type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
"type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#FilterValue",
"traits": {
"smithy.api#xmlName": "item"
}
}
},
"com.amazonaws.licensemanager#Filters": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter",
"traits": {
"smithy.api#xmlName":
"item"
}
}
},
"com.amazonaws.licensemanager#GetAccessToken": {
"type": "operation",

"input": {
"target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"

}
],
"traits": {
"smithy.api#documentation": " Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access tokens\n are valid for one hour. "
}
},
"com.amazonaws.licensemanager#GetAccessTokenRequest": {
"type": "structure",
"members": {
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token, encoded as a JWT token. ",
"smithy.api#required": {}
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Token properties to validate against those present in the JWT token. "
}

}
}

```
},
"com.amazonaws.licensemanager#GetAccessTokenResponse": {
    "type": "structure",
    "members": {
        "AccessToken": {
            "target": "com.amazonaws.licensemanager#TokenString",
            "traits": {
                "smithy.api#documentation": "<p>Temporary access token.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
```

```
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
                "smithy.api#documentation": "<p>Grant details.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",

    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
```

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license configuration. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Unique ID for the license configuration. "
}
},
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension for which the licenses are counted. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. "
}

```
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of available licenses.</p>"
                }
            },
            "LicenseCountHardLimit": {

    "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Sets the number of available licenses as a hard limit.</p>"
                }
            },
            "ConsumedLicenses": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses assigned to resources.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License configuration status.</p>"
                }
            },
            "OwnerAccountId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Account ID of the
owner of the license configuration.</p>"
                }
            },
            "ConsumedLicenseSummaryList": {
                "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>Summaries of the licenses consumed by resources.</p>"
                }
            },
            "ManagedResourceSummaryList": {
                "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>Summaries of the managed resources.</p>"
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
```

"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList":
{
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is
uninstalled. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
"type":
"operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{

"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified license type conversion task. "
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information on. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted to. "

```
        }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
                }
            },
            "StartTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
                }
            },
            "LicenseConversionTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                 "traits": {
                    "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
                }
            },
            "EndTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation":
"<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {
            "ReportGenerator": {
                "target": "com.amazonaws.licensemanager#ReportGenerator",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic
```

reports about your license configurations. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseResponse": {
"type": "structure",
"members": {
"License": {
"target":
"com.amazonaws.licensemanager#License",
"traits": {
"smithy.api#documentation": " License details. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseUsage": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the usage of the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseUsageRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseUsageResponse":
{
"type": "structure",
"members": {
"LicenseUsage": {
"target": "com.amazonaws.licensemanager#LicenseUsage",
"traits": {
"smithy.api#documentation": " License usage details. "
}
}
}
},
"com.amazonaws.licensemanager#GetServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
},

"output": {
"target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets the License Manager settings for the current Region. "
}
},
"com.amazonaws.licensemanager#GetServiceSettingsRequest": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Regional S3 bucket path for storing reports, license trail event data, discovery data,\n and so on. "
}

},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " SNS topic configured to receive notifications from License Manager. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Indicates whether Organizations is integrated with License

Manager for\n cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether cross-account discovery is enabled. "
}

},
"LicenseManagerResourceShareArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource share. The License Manager management account \n provides member accounts with access to this share. "
}
}
}
},
"com.amazonaws.licensemanager#Grant": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"ParentArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Parent ARN. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. ",

"smithy.api#required": {}
}
},
"GranteePrincipalArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " The grantee principal ARN. ",

"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"Version": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. ",
"smithy.api#required": {}
}
},
"GrantedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Granted operations. ",
"smithy.api#required": {}
}
}
},
"traits": {

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        "smithy.api#documentation": "<p>Describes a grant.</p>"
    }
},
"com.amazonaws.licensemanager#GrantList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Grant"
    }
},
"com.amazonaws.licensemanager#GrantStatus": {
    "type": "string",

  "traits": {
        "smithy.api#enum": [
            {
                "value": "PENDING_WORKFLOW",
                "name": "PENDING_WORKFLOW"
            },
            {
                "value": "PENDING_ACCEPT",
                "name": "PENDING_ACCEPT"
            },
            {
                "value": "REJECTED",
                "name": "REJECTED"
            },
            {
                "value": "ACTIVE",
                "name": "ACTIVE"
            },
            {
                "value": "FAILED_WORKFLOW",
                "name": "FAILED_WORKFLOW"
            },
            {
                "value": "DELETED",
                "name": "DELETED"
            },
            {
                "value": "PENDING_DELETE",
                "name": "PENDING_DELETE"
             },
            {
                "value": "DISABLED",
                "name": "DISABLED"
            },
            {
                "value": "WORKFLOW_COMPLETED",
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"name": "WORKFLOW_COMPLETED"
}
]
}
},
"com.amazonaws.licensemanager#GrantedLicense": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. "
}

},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " Granted license issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the granted license. "

}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",

"traits": {
"smithy.api#documentation": " Granted license status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the granted license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Granted license beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Granted license metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Creation time of the granted license. "

}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Version of the granted license. "
}
},

"ReceivedMetadata": {
"target": "com.amazonaws.licensemanager#ReceivedMetadata",
"traits": {
"smithy.api#documentation": " Granted license received metadata. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a license that is granted to a grantee. "
}
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#GrantedLicense"
}
},
"com.amazonaws.licensemanager#ISO8601DateTime":
{
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
}
},
"com.amazonaws.licensemanager#Integer": {
"type": "integer",
"traits": {
"smithy.api#box": {}
}
},
"com.amazonaws.licensemanager#InvalidParameterValueException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidParameterValueProvided",

"httpResponseCode": 400
},

"smithy.api#documentation": " One or more parameter values are not valid. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#InvalidResourceStateException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidResourceState",
"httpResponseCode": 400
},
"smithy.api#documentation": " License Manager cannot allocate a license to a resource because of its state. \n For example, you cannot allocate a license to an instance in the process of shutting\n down. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#InventoryFilter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the filter. ",
"smithy.api#required": {}
}
},
"Condition": {
"target": "com.amazonaws.licensemanager#InventoryFilterCondition",
"traits": {
"smithy.api#documentation": " Condition of the filter. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Value of the filter. "
}
}

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        },
        "traits": {
            "smithy.api#documentation": "<p>An inventory filter.</p>"
        }
    },
    "com.amazonaws.licensemanager#InventoryFilterCondition": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "EQUALS",
                    "name": "EQUALS"
                },
                {
                    "value": "NOT_EQUALS",
                    "name": "NOT_EQUALS"
                },
                {
                    "value": "BEGINS_WITH",
                    "name": "BEGINS_WITH"
                },
                {
                    "value": "CONTAINS",
                    "name": "CONTAINS"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#InventoryFilterList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#InventoryFilter"
        }
    },
    "com.amazonaws.licensemanager#Issuer": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>",
                    "smithy.api#required": {}
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
}
},
"traits": {

"smithy.api#documentation": " Details about the issuer of a license. "
}
},
"com.amazonaws.licensemanager#IssuerDetails": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. "
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer key fingerprint. "
}
}
},
"traits": {
"smithy.api#documentation": " Details associated with the issuer of a license. "
}
},
"com.amazonaws.licensemanager#License": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},

"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. "
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " License issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}

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            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>"

             }
            },
            "ConsumptionConfiguration": {
                "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
                }
            },
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>License metadata.</p>"
                }
            },
            "CreateTime": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>License creation time.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits":
{
                    "smithy.api#documentation": "<p>License version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfiguration": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}

},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension to use to track the license inventory. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Number of available licenses as a hard limit. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "

}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the license configuration. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the license configuration's owner. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",

"traits": {
"smithy.api#documentation": " Summaries for licenses consumed by various resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated
discovery information. "
}
}
},

"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource consuming licenses. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was associated with the resource. "
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {

"smithy.api#documentation": " Describes an association with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
}
},
"com.amazonaws.licensemanager#LicenseConfigurationStatus": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "AVAILABLE",
"name": "AVAILABLE"
},
{
"value": "DISABLED",
"name": "DISABLED"
}
]
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsage": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of resource. "
}
},
"ResourceStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Status of the resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was initially associated with the resource. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}

},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
}
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfiguration"
}
},
"com.amazonaws.licensemanager#LicenseConversionContext": {
"type": "structure",
"members": {
"UsageOperation": {
"target": "com.amazonaws.licensemanager#UsageOperation",
"traits": {
"smithy.api#documentation": " The Usage operation value that corresponds to the license type you are converting your resource from. For more information about which platforms correspond to which usage operation values see Sample data: usage operation by platform\n \n "
}
}

```
        },
        "traits": {
            "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTask": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the license type conversion task.</p>"
                }
            },
            "ResourceArn":
 {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource associated
with the license type\n        conversion task.</p>"
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license type this conversion task converted
from.</p>"
                }
            },
            "DestinationLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license type this conversion task converted
to.</p>"
                }
            },

   "Status": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
                "traits": {
                    "smithy.api#documentation": "<p>The status of the conversion task.</p>"
                }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
                }
```

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            },
            "StartTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>The time the conversion task was started at.</p>"
                }
            },
            "LicenseConversionTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {

        "smithy.api#documentation": "<p>The time the usage operation value of the resource was changed.</p>"
                }
            },
            "EndTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTaskId": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            },
            "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
        "type":
"string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "IN_PROGRESS",
                    "name": "IN_PROGRESS"
                },
                {
                    "value": "SUCCEEDED",
                    "name": "SUCCEEDED"
                },
```

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            {
                "value": "FAILED",
                "name": "FAILED"
            }
        ]
    }
},
"com.amazonaws.licensemanager#LicenseConversionTasks": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#LicenseConversionTask"
    }
},
"com.amazonaws.licensemanager#LicenseCountingType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "vCPU",
                "name": "VCPU"

           },
            {
                "value": "Instance",
                "name": "INSTANCE"
            },
            {
                "value": "Core",
                "name": "CORE"
            },
            {
                "value": "Socket",
                "name": "SOCKET"
            }
        ]
    }
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "PENDING_DELETE",
                "name": "PENDING_DELETE"
            },
            {
                "value": "DELETED",
                "name": "DELETED"
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            }
        ]
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
     "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {
    "type": "structure",
    "members": {
        "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
        },
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Resource type.</p>"
            }
        },
        "ErrorMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Error message.</p>"

    }
        },
        "FailureTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Failure time.</p>"
            }
        },
        "OperationName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the operation.</p>"
            }
        },
        "ResourceOwnerId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the
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resource. "
}
},
"OperationRequestedBy": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " The requester is \"License Manager Automated Discovery\". "
}
},
"MetadataList": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Reserved. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the failure of a license operation. "
}
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailure"
}
},
"com.amazonaws.licensemanager#LicenseSpecification": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "

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        }
    },
    "com.amazonaws.licensemanager#LicenseSpecifications": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseSpecification"
        }
    },
    "com.amazonaws.licensemanager#LicenseStatus":
{
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "AVAILABLE",
                    "name": "AVAILABLE"
                },
                {
                    "value": "PENDING_AVAILABLE",
                    "name": "PENDING_AVAILABLE"
                },
                {
                    "value": "DEACTIVATED",
                    "name": "DEACTIVATED"
                },
                {
                    "value": "SUSPENDED",
                    "name": "SUSPENDED"
                },
                {
                    "value": "EXPIRED",
                    "name": "EXPIRED"
                },
                {
                    "value": "PENDING_DELETE",
                    "name": "PENDING_DELETE"
                },
                {

                 "value": "DELETED",
                    "name": "DELETED"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#LicenseUsage": {
        "type": "structure",
        "members": {
```

"EntitlementUsages": {
"target": "com.amazonaws.licensemanager#EntitlementUsageList",
"traits": {
"smithy.api#documentation": " License entitlement usages. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the entitlement usage associated with a license. "
}
},
"com.amazonaws.licensemanager#LicenseUsageException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {

"aws.protocols#awsQueryError": {
"code": "LicenseUsageFailure",
"httpResponseCode": 412
},
"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},

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            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the resource associations for the specified license
configuration.</p> \n        <p>Resource associations need not consume licenses from a license configuration. \n
For example, an AMI or a stopped instance might not consume a license (depending on \n        the license
rules).</p>"
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest":
 {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                 }
            }
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationAssociations": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
                "traits": {
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"smithy.api#documentation": " Information about the associations for the license configuration. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants distributed for the specified license. "
}

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    },
    "com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
      "type": "structure",
      "members": {
        "GrantArns": {
          "target": "com.amazonaws.licensemanager#ArnList",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
          }
        },
        "Filters": {
          "target": "com.amazonaws.licensemanager#FilterList",
          "traits": {
            "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n              <p>\n
        <code>LicenseArn</code>\n              </p>\n            </li>\n            <li>\n              <p>\n
<code>GrantStatus</code>\n              </p>\n            </li>\n            <li>\n              <p>\n
<code>GranteePrincipalARN</code>\n              </p>\n            </li>\n            <li>\n              <p>\n
<code>ProductSKU</code>\n              </p>\n            </li>\n            <li>\n              <p>\n
<code>LicenseIssuerName</code>\n              </p>\n            </li>\n        </ul>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#MaxSize100",
           "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
      "type": "structure",
      "members": {
        "Grants": {
          "target": "com.amazonaws.licensemanager#GrantList",
          "traits": {
            "smithy.api#documentation": "<p>Distributed grant details.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
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"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configuration operations that failed. "
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name of the license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {

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                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse": {
    "type": "structure",
    "members": {
        "LicenseOperationFailureList": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
            "traits": {
                "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListLicenseConfigurations":
{
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
        },
        {
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"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},

{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configurations for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the license configurations. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>licenseCountingType</code> - The dimension for which licenses are counted.\n Possible values are <code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n
<code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement is used. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>usagelimitExceeded</code> - A Boolean value that indicates

whether the available licenses have been exceeded. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
"type": "structure",
"members": {
"LicenseConfigurations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurations",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "

}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasks": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target":
"com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
        "type": "structure",
        "members": {
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                 "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>\n        Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n      </p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTasks": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configuration tasks for your
account.</p>"
                 }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
```

"com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the report generators for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest": {
"type":
"structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported:
\n \n \n \n <code>LicenseConfigurationArn</code>\n

```
</p>\n            </li>\n         </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to
 return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
            "ReportGenerators": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorList",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
        "type": "operation",
        "input":
 {
            "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Describes the
 license configurations for the specified resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a resource that has an
associated license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",

             "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
        "type": "structure",
        "members": {
```

"LicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " License configurations associated with a resource. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation":
" Lists all versions of the specified license. "
}
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
"type": "structure",
"members": {
"LicenseArn": {

"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum
number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#LicenseList",
"traits": {
"smithy.api#documentation": " License details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenses": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicensesRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicensesResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses for your account. "
}
},
"com.amazonaws.licensemanager#ListLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>Status</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},

"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {

"target": "com.amazonaws.licensemanager#LicenseList",
"traits": {
"smithy.api#documentation": " License details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListReceivedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},

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            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists grants that are received but not accepted.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
        "type": "structure",

    "members": {
            "GrantArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>ProductSKU</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                <code>LicenseIssuerName</code>\n                </p>\n
</li>\n            <li>\n                <p>\n                <code>LicenseArn</code>\n                </p>\n            </li>\n
<li>\n                <p>\n
  <code>GrantStatus</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>GranterAccountId</code>\n                </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
```

```
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
        "type": "structure",
        "members": {
            "Grants": {

             "target": "com.amazonaws.licensemanager#GrantList",
                "traits": {
                    "smithy.api#documentation": "<p>Received grant details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicenses": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"

},
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists received licenses.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
        "type": "structure",

    "members": {
            "LicenseArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>ProductSKU</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                <code>Status</code>\n                </p>\n            </li>\n
<li>\n                <p>\n                <code>Fingerprint</code>\n                </p>\n            </li>\n            <li>\n
<p>\n                <code>IssuerName</code>\n
            </p>\n            </li>\n            <li>\n                <p>\n                <code>Beneficiary</code>\n                </p>\n
        </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
        "type": "structure",
        "members": {
            "Licenses": {
```

"target": "com.amazonaws.licensemanager#GrantedLicenseList",
"traits": {
"smithy.api#documentation": " Received license details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListResourceInventory": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"

},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FailedDependencyException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists resources managed using Systems Manager inventory. "

```
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryRequest": {

        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#InventoryFilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>account_id</code>
 - The ID of the Amazon Web Services account that owns the resource.\n            Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n            <p>\n
    <code>application_name</code> - The name of the application. \n            Logical operators are
<code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n            </li>\n            <li>\n            <p>\n
    <code>license_included</code> - The type of license included. \n            Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.\n            Possible values are <code>sql-server-
enterprise</code> | \n            <code>sql-server-standard</code> | \n            <code>sql-server-web</code> |  \n
        <code>windows-server-datacenter</code>.</p>\n            </li>\n            <li>\n            <p>\n
<code>platform</code> - The platform of the resource.\n
    Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n            </li>\n
<li>\n            <p>\n                <code>resource_id</code> - The ID of the resource. \n            Logical operators
are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n            <p>\n
        <code>tag:<key></code> - The key/value combination of a tag assigned \n            to the resource. Logical
operators are <code>EQUALS</code> (single account) or\n            <code>EQUALS</code> |
<code>NOT_EQUALS</code> (cross account).</p>\n            </li>\n        </ul>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryResponse": {
        "type": "structure",
        "members": {
            "ResourceInventoryList": {
                "target": "com.amazonaws.licensemanager#ResourceInventoryList",
                "traits":
```

{
"smithy.api#documentation": " Information about the resources. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListTagsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the tags for the specified license configuration. "
}
},
"com.amazonaws.licensemanager#ListTagsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license

configuration. ",
"smithy.api#required":
{}
}
}
}
},
"com.amazonaws.licensemanager#ListTagsForResourceResponse": {
"type": "structure",
"members": {
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Information about the tags. "
}
}
}
},
"com.amazonaws.licensemanager#ListTokens": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListTokensRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListTokensResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target":
"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists your tokens. "
}
},

```
    "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
            "TokenIds": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Token IDs.</p>"
                }
            },
            "Filters": {
                "target":
 "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
    <ul>\n          <li>\n              <p>\n                <code>LicenseArns</code>\n              </p>\n          </li>\n
</ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListTokensResponse":
{
        "type": "structure",
        "members": {
            "Tokens": {
                "target": "com.amazonaws.licensemanager#TokenList",
                "traits": {
                    "smithy.api#documentation": "<p>Received token details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
```

```
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying
license\n        consumption details by resource
 at a selected point in time. Use this action to audit the\n        current license consumption for any license inventory
and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
```

```
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {

                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>resourceArn</code> - The ARN of the license configuration resource.\n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n
    <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> |
<code>EC2_HOST</code> | <code>EC2_AMI</code> |
<code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>).
 \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n
    <li>\n                <p>\n                <code>resourceAccount</code> - The ID of the account that owns the
resource. \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n
</li>\n        </ul>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationUsageList": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
```

```
"com.amazonaws.licensemanager#Location": {
    "type": "string"
},
"com.amazonaws.licensemanager#Long": {
    "type": "long",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummary": {
    "type": "structure",
    "members": {
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
            }
        },
        "AssociationCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {
    "type": "integer",
    "traits": {
        "smithy.api#box": {},
        "smithy.api#range": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
```

"target": "com.amazonaws.licensemanager#String"
},
"traits": {
"smithy.api#length": {
"min": 0,
"max": 3
}
}
},
"com.amazonaws.licensemanager#Message": {
"type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The key name. "
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The value. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes key/value pairs. "
}

},
"com.amazonaws.licensemanager#MetadataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Metadata"
}
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " There are no entitlements found for this license, or the entitlement

maximum count is reached. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#OrganizationConfiguration": {
"type": "structure",
"members": {
"EnableIntegration": {
"target": "com.amazonaws.licensemanager#Boolean",

"traits": {
"smithy.api#documentation": " Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {

"smithy.api#documentation": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n <code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n \n ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information for a license configuration. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
"type": "structure",
"members": {
"ProductInformationFilterName": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Filter name. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterValue": {
"target":
"com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " Filter value. "
}
},
"ProductInformationFilterComparator": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Logical operator. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information filters. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ProductInformationFilter"
}
},
"com.amazonaws.licensemanager#ProductInformationList": {
"type": "list",

"member": {
"target": "com.amazonaws.licensemanager#ProductInformation"
}
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
"type": "structure",
"members": {
"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the provisional configuration, in minutes. ",
"smithy.api#required": {}
}
}

```
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#RateLimitExceededException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"

       }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "RateLimitExceeded",
                "httpResponseCode": 429
            },
            "smithy.api#documentation": "<p>Too many requests have been submitted. Try again after a brief
wait.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 429
        }
    },
    "com.amazonaws.licensemanager#ReceivedMetadata": {
        "type": "structure",
        "members": {
            "ReceivedStatus": {
                "target": "com.amazonaws.licensemanager#ReceivedStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Received status.</p>"
                }
            },
            "ReceivedStatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {

        "smithy.api#documentation": "<p>Received status reason.</p>"
                }
            },
            "AllowedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed operations.</p>"
                }
            }
        },
        "traits": {
```

"smithy.api#documentation": " Metadata associated with received licenses and grants. "
}
},
"com.amazonaws.licensemanager#ReceivedStatus": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "PENDING_WORKFLOW",
"name": "PENDING_WORKFLOW"
},
{
"value": "PENDING_ACCEPT",
"name": "PENDING_ACCEPT"
},
{
"value": "REJECTED",
"name": "REJECTED"
},
{
"value": "ACTIVE",
"name": "ACTIVE"
},
{
"value": "FAILED_WORKFLOW",
"name": "FAILED_WORKFLOW"
},
{
"value": "DELETED",
"name": "DELETED"
},
{
"value": "DISABLED",
"name": "DISABLED"
},
{
"value": "WORKFLOW_COMPLETED",
"name": "WORKFLOW_COMPLETED"
}
]
}
},
"com.amazonaws.licensemanager#RedirectException": {
"type": "structure",
"members": {

"Location": {
"target": "com.amazonaws.licensemanager#Location",

```
            "traits": {
                "smithy.api#httpHeader": "Location"
            }
        },
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 308
    }
},
"com.amazonaws.licensemanager#RejectGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#RejectGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#RejectGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
    }
```

```
    },
    "com.amazonaws.licensemanager#RejectGrantRequest":
{
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"

        }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#RenewType": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "None",
                    "name": "NONE"
                },
                {
                    "value": "Weekly",
```

"name": "WEEKLY"
},
{
"value": "Monthly",
"name": "MONTHLY"
}
]
}
},
"com.amazonaws.licensemanager#ReportContext": {
"type": "structure",
"members": {

"licenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details of the license configuration that this generator reports on. "
}
},
"com.amazonaws.licensemanager#ReportFrequency": {
"type": "structure",
"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "

}
},
"period": {
"target": "com.amazonaws.licensemanager#ReportFrequencyType",
"traits": {
"smithy.api#documentation": " Time period between each report. The period can be daily, weekly, or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}

```
},
"com.amazonaws.licensemanager#ReportFrequencyType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "DAY",
                "name": "DAY"
            },
            {
                "value": "WEEK",
                "name": "WEEK"
            },
            {
                "value": "MONTH",

        "name": "MONTH"
            }
        ]
    }
},
"com.amazonaws.licensemanager#ReportGenerator": {
    "type": "structure",
    "members": {
        "ReportGeneratorName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the report generator.</p>"
            }
        },
        "ReportType": {
            "target": "com.amazonaws.licensemanager#ReportTypeList",
            "traits": {
                "smithy.api#documentation": "<p>Type of reports that are generated.</p>"
            }
        },
        "ReportContext": {
            "target": "com.amazonaws.licensemanager#ReportContext",
            "traits": {
                "smithy.api#documentation": "<p>License configuration type for this generator.</p>"
             }
        },
        "ReportFrequency": {
            "target": "com.amazonaws.licensemanager#ReportFrequency",
            "traits": {
                "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
            }
        },
```

"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. "
}
},
"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}
},
"LastRunFailureReason": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Failure message for the last report generation attempt. "
}
},
"LastReportGenerationTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the last report was generated at. "
}
},
"ReportCreatorAccount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Web Services account ID used to create the report generator. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",

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            "traits": {
                "smithy.api#documentation": "<p>Time the report was created.</p>"
            }
        },
        "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
                "smithy.api#documentation": "<p>Tags associated with the report generator.</p>"
            }
        }
    },

"traits": {
        "smithy.api#documentation": "<p>Describe the details of a report generator.</p>"
    }
  },
  "com.amazonaws.licensemanager#ReportGeneratorList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportGenerator"
    }
  },
  "com.amazonaws.licensemanager#ReportGeneratorName": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 100
        }
    }
  },
  "com.amazonaws.licensemanager#ReportType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "LicenseConfigurationSummaryReport",
                "name": "LICENSE_CONFIGURATION_SUMMARY_REPORT"
            },
            {
                "value": "LicenseConfigurationUsageReport",
                 "name": "LICENSE_CONFIGURATION_USAGE_REPORT"
            }
        ]
    }
  },
  "com.amazonaws.licensemanager#ReportTypeList": {
    "type": "list",
```

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        "member": {
            "target": "com.amazonaws.licensemanager#ReportType"
        }
    },
    "com.amazonaws.licensemanager#ResourceInventory": {
        "type": "structure",
        "members": {
            "ResourceId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "Platform": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform of the resource.</p>"
                }
            },
            "PlatformVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
                }
            },
            "ResourceOwningAccountId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>ID of the account that owns the resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a resource.</p>"
        }
```

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    },
    "com.amazonaws.licensemanager#ResourceInventoryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ResourceInventory"
        }
    },
    "com.amazonaws.licensemanager#ResourceLimitExceededException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ResourceLimitExceeded",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>Your resource limits have
been exceeded.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#ResourceNotFoundException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidResource.NotFound",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>The resource cannot be found.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#ResourceType": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "EC2_INSTANCE",
```

"name": "EC2_INSTANCE"
},
{
"value": "EC2_HOST",
"name": "EC2_HOST"
},
{
"value": "EC2_AMI",
"name": "EC2_AMI"
},
{
"value": "RDS",
"name": "RDS"
},
{
"value": "SYSTEMS_MANAGER_MANAGED_INSTANCE",
"name": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
}
]
}
},
"com.amazonaws.licensemanager#S3Location": {
"type": "structure",
"members": {
"bucket": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the S3 bucket
reports are published to. "
}
},
"keyPrefix": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Prefix of the S3 bucket reports are published to. "
}
}
},
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published
to. "
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"

```
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InternalError",
                "httpResponseCode": 500
            },
            "smithy.api#documentation":
"<p>The server experienced an internal error. Try again.</p>",
            "smithy.api#error": "server",
            "smithy.api#httpError": 500
        }
    },
    "com.amazonaws.licensemanager#SignedToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 4096
            }
        }
    },
    "com.amazonaws.licensemanager#StatusReasonMessage": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 400
            },
            "smithy.api#pattern": "^[\\s\\S]+$"
        }
    },
    "com.amazonaws.licensemanager#String": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"

      }
    },
    "com.amazonaws.licensemanager#Tag": {
        "type": "structure",
        "members": {
            "Key": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag key.</p>"
```

```
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#TagList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Tag"
        }
    },
    "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Adds the specified tags to the specified license configuration. "
}
},
"com.amazonaws.licensemanager#TagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " One or more tags. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#TagResourceResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#TokenData": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. "
}
},
"TokenType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Type of token generated. The supported value is <code>REFRESH_TOKEN</code>. "
}

```
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "ExpirationTime": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Token expiration time, in ISO8601-UTC format.</p>"
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Data specified by the caller.</p>"
                }
            },
            "RoleArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the roles included in the
token.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token status. The possible values are
<code>AVAILABLE</code> and <code>DELETED</code>.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes a token.</p>"
        }
    },
    "com.amazonaws.licensemanager#TokenList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#TokenData"
        }
    },
    "com.amazonaws.licensemanager#TokenString": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
```

```
                "min": 0,
                "max": 4096
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
    "com.amazonaws.licensemanager#TokenType":
{
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "REFRESH_TOKEN",
                    "name": "REFRESH_TOKEN"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The digital signature method is unsupported. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#UntagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UntagResourceRequest"
         },
        "output": {
            "target": "com.amazonaws.licensemanager#UntagResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
```

"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Removes the specified tags from the specified license configuration. "
}
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",
"traits": {
"smithy.api#documentation": " Keys identifying the tags to remove. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Modifies the attributes of an existing license configuration. "
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"LicenseConfigurationStatus": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
"traits": {
"smithy.api#documentation": " New status of the license configuration. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " New license rule. The only rule that you can add after you create a license\n configuration is licenseAffinityToHost. "
}
},

"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " New number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}

},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {

"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates a report generator. \n After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated. "

}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to update. ",
"smithy.api#required": {}
}

```
        },
        "ReportGeneratorName": {
          "target": "com.amazonaws.licensemanager#ReportGeneratorName",
          "traits": {
            "smithy.api#documentation": "<p>Name of the report generator.</p>",
            "smithy.api#required": {}
          }
        },
        "Type": {
          "target": "com.amazonaws.licensemanager#ReportTypeList",
          "traits": {
            "smithy.api#documentation": "<p>Type of reports to generate. The following report types are supported:</p>\n <ul>\n <li>\n <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p>\n </li>\n <li>\n <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n </li>\n </ul>",
            "smithy.api#required": {}
          }
        },
        "ReportContext": {
          "target": "com.amazonaws.licensemanager#ReportContext",
          "traits": {
            "smithy.api#documentation": "<p>The report context.</p>",
            "smithy.api#required": {}
          }
        },
        "ReportFrequency": {
          "target": "com.amazonaws.licensemanager#ReportFrequency",
          "traits": {
            "smithy.api#documentation": "<p>Frequency by which reports are generated.</p>",
            "smithy.api#required": {}
          }
        },
        "ClientToken": {
          "target": "com.amazonaws.licensemanager#ClientRequestToken",
          "traits": {
            "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
            "smithy.api#required": {}
          }
        },
        "Description": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Description of the report generator.</p>"
          }
        }
      }
```

```
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidResourceStateException"

        },
            {
                "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p> \n        <p>You can update the license specifications of AMIs, instances, and
hosts.\n        You cannot update the license specifications for launch templates and CloudFormation templates, \n
 as they send license configurations to the operation that creates the resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
        "type": "structure",
```

"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon Web Services resource. ",
"smithy.api#required": {}
}
},
"AddLicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " ARNs of the license configurations to add. "
}
},
"RemoveLicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " ARNs of the license configurations to remove. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where
the License Manager information is stored.</p>"
                }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon
 Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Enables integration with Organizations for cross-account
discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Activates cross-account discovery.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#UsageOperation": {
        "type":
```

```
 "string",
        "traits": {
          "smithy.api#length": {
            "min": 0,
            "max": 50
          }
        }
      },
      "com.amazonaws.licensemanager#ValidationException": {
        "type": "structure",
        "members": {
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 400
        }
      }
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType
```

```
 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 //
 Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
```

```
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err
 != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return
 nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
```

```
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
```

```
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
 err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
```

```
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
```

```
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

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```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {
```

```
// A structure containing data about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if
 err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
```

```
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}
```

1.4228 kubernetes-client 6.2.0

1.4228.1 Available under license :

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1.4229 bitset 1.2.0

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1.4230 aws-sdk-go-v2-service-sso 1.11.3

1.4230.1 Available under license :

```
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package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
```

```
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
 nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
```

```
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
```

```
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string
```

```
 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err
 = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
```

```
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
```

```
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil
 {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
```

```
        fetch-depth: 0
    - name: Get Diff
      run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
    - name: Get Target Files
      run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
       uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
```

```
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer
```

```
 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity *types.DatetimeRange

 //
 Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
```

```
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
```

```
 return
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
```

```
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
```

```
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
```

```
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if
```

```
 err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
```

}
AWS SDK for Go
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{
  "smithy": "1.0",
  "metadata": {
    "suppressions": [
      {
        "id": "HttpMethodSemantics",
        "namespace": "*"
      },
      {
        "id": "HttpResponseCodeSemantics",
        "namespace": "*"
      },
      {
        "id": "PaginatedTrait",
        "namespace": "*"
      },
      {
        "id": "HttpHeaderTrait",
        "namespace": "*"
      },
      {
        "id": "HttpUriConflict",
        "namespace": "*"
      },
      {
        "id": "Service",
        "namespace": "*"
      }
    ]
  },
  "shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
      "type": "service",
      "version": "2018-08-01",
      "operations": [
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        },

 {
          "target": "com.amazonaws.licensemanager#CheckInLicense"
        },
        {
          "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"

```
    },
    {
      "target": "com.amazonaws.licensemanager#CheckoutLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateGrantVersion"
    },
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      "target": "com.amazonaws.licensemanager#CreateLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
    },
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    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseVersion"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateToken"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteToken"
    },
    {
      "target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

  },
    {
```

"target": "com.amazonaws.licensemanager#GetAccessToken"
},
{
"target": "com.amazonaws.licensemanager#GetGrant"
},
{
"target": "com.amazonaws.licensemanager#GetLicense"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseUsage"
},
{
"target": "com.amazonaws.licensemanager#GetServiceSettings"
},
{
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#ListDistributedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
"target": "com.amazonaws.licensemanager#ListLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

```
        "target": "com.amazonaws.licensemanager#ListLicenseVersions"
    },
    {
        "target": "com.amazonaws.licensemanager#ListReceivedGrants"
    },
    {
        "target": "com.amazonaws.licensemanager#ListReceivedLicenses"
    },
    {
        "target": "com.amazonaws.licensemanager#ListResourceInventory"
    },
    {
        "target": "com.amazonaws.licensemanager#ListTagsForResource"
    },
    {
        "target": "com.amazonaws.licensemanager#ListTokens"
    },
    {
        "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
    },
    {
        "target": "com.amazonaws.licensemanager#RejectGrant"
    },
    {
        "target": "com.amazonaws.licensemanager#TagResource"
    },
    {
        "target": "com.amazonaws.licensemanager#UntagResource"
    },
    {
        "target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
    },
    {
        "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
    },
    {
        "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
    },
    {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettings"
    }
],
"traits": {
    "aws.api#service": {
        "sdkId": "License Manager",
        "arnNamespace": "license-manager",
        "cloudFormationName": "LicenseManager",
```

"cloudTrailEventSource": "licensemanager.amazonaws.com",
"endpointPrefix":
"license-manager"
},
"aws.auth#sigv4": {
"name": "license-manager"
},
"aws.protocols#awsJson1_1": {},
"smithy.api#documentation": " License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers. ",
"smithy.api#title": "AWS License Manager",
"smithy.api#xmlNamespace": {
"uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
}
}
},
"com.amazonaws.licensemanager#AcceptGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#AcceptGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#AcceptGrantResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],

"traits": {
"smithy.api#documentation": " Accepts the specified grant. "
}
},
"com.amazonaws.licensemanager#AcceptGrantRequest":
{
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#AcceptGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant
status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
}
},
"com.amazonaws.licensemanager#AccessDeniedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},

```
        "traits": {
          "aws.protocols#awsQueryError": {
            "code": "ServiceAccessDenied",
            "httpResponseCode": 401
          },
          "smithy.api#documentation": "<p>Access to resource denied.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 401
        }
      },
      "com.amazonaws.licensemanager#AllowedOperation":
{
        "type": "string",
        "traits": {
          "smithy.api#enum": [
            {
              "value": "CreateGrant",
              "name": "CREATE_GRANT"
            },
            {
              "value": "CheckoutLicense",
              "name": "CHECKOUT_LICENSE"
            },
            {
              "value": "CheckoutBorrowLicense",
              "name": "CHECKOUT_BORROW_LICENSE"
            },
            {
              "value": "CheckInLicense",
              "name": "CHECK_IN_LICENSE"
            },
            {
              "value": "ExtendConsumptionLicense",
              "name": "EXTEND_CONSUMPTION_LICENSE"
            },
            {
              "value": "ListPurchasedLicenses",
              "name": "LIST_PURCHASED_LICENSES"
             },
            {
              "value": "CreateToken",
              "name": "CREATE_TOKEN"
            }
          ]
        }
      },
      "com.amazonaws.licensemanager#AllowedOperationList": {
        "type": "list",
```

"member": {
"target": "com.amazonaws.licensemanager#AllowedOperation"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 7
}
}
},
"com.amazonaws.licensemanager#Arn": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
}
},
"com.amazonaws.licensemanager#ArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
}
},
"com.amazonaws.licensemanager#AuthorizationException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "AuthorizationFailure",
"httpResponseCode": 403
},
"smithy.api#documentation": " The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n policy associated with this account. ",
"smithy.api#error": "client",
"smithy.api#httpError": 403
}
},
"com.amazonaws.licensemanager#AutomatedDiscoveryInformation":
{
"type": "structure",

```
    "members": {
        "LastRunTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes automated discovery.</p>"
    }
},
"com.amazonaws.licensemanager#Boolean": {
    "type": "boolean"
},
"com.amazonaws.licensemanager#BorrowConfiguration": {
    "type": "structure",
    "members": {
        "AllowEarlyCheckIn": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Indicates whether early check-ins are allowed.</p>",
                 "smithy.api#required": {}
            }
        },
        "MaxTimeToLiveInMinutes": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
    }
},
"com.amazonaws.licensemanager#BoxBoolean": {
    "type": "boolean",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#BoxInteger": {
    "type": "integer",
    "traits": {
        "smithy.api#box": {}
    }
```

```
    },
    "com.amazonaws.licensemanager#BoxLong": {

    "type": "long",
        "traits": {
            "smithy.api#box": {}
        }
    },
    "com.amazonaws.licensemanager#CheckInLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseRequest": {
```

"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",

"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
}
}
},
"com.amazonaws.licensemanager#CheckInLicenseResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks out the specified license for offline use. "
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The license must use the borrow consumption configuration. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. Partial checkouts are not supported. ",
"smithy.api#required": {}
}
},
"DigitalSignatureMethod": {
"target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
"traits": {
"smithy.api#documentation": " Digital signature method. The possible value is JSON Web Signature (JWS) algorithm PS384.\n For more information, see RFC 7518 Digital Signature with RSASSA-PSS. ",
"smithy.api#required": {}

```
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
 "<p>Node ID.</p>"
                }
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",

 "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>"
                }
            },
            "EntitlementsAllowed": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
                }
            },
            "NodeId": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"SignedToken": {

"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation":
" Information about constraints. "
}
}
}
},
"com.amazonaws.licensemanager#CheckoutLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {

 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutLicenseRequest": {
        "type": "structure",
        "members": {
            "ProductSKU":
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "CheckoutType": {
                "target": "com.amazonaws.licensemanager#CheckoutType",
                "traits": {
                    "smithy.api#documentation": "<p>Checkout type.</p>",
                    "smithy.api#required": {}
                }
            },
```

"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Key fingerprint identifying the license. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Node ID. "
}
}
}
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
"type": "structure",
"members": {
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",

```
            "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
            }
        },
        "EntitlementsAllowed": {
            "target": "com.amazonaws.licensemanager#EntitlementDataList",
            "traits": {
                "smithy.api#documentation":
"<p>Allowed license entitlements.</p>"
            }
        },
        "SignedToken": {
            "target": "com.amazonaws.licensemanager#SignedToken",
            "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
            }
        },
        "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        },
        "IssuedAt": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
            }
        },
        "Expiration": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",

            "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
            }
        },
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CheckoutType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
```

```
            {
                "value": "PROVISIONAL",
                "name": "PROVISIONAL"
            },
            {
                "value": "PERPETUAL",
                "name": "PERPETUAL"
            }
        ]
    }
},
"com.amazonaws.licensemanager#ClientRequestToken":
{
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 36
        }
    }
},
"com.amazonaws.licensemanager#ClientToken": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 2048
        },
        "smithy.api#pattern": "^\\S+$"
    }
},
"com.amazonaws.licensemanager#ConflictException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "ConflictException",
            "httpResponseCode": 409
        },
        "smithy.api#documentation": "<p>There
was a conflict processing the request. Try your request again.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 409
    }
```

```
},
"com.amazonaws.licensemanager#ConsumedLicenseSummary": {
    "type": "structure",
    "members": {
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about license consumption.</p>"
     }
},
"com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
    }
},
"com.amazonaws.licensemanager#ConsumptionConfiguration": {
    "type": "structure",
    "members": {
        "RenewType": {
            "target": "com.amazonaws.licensemanager#RenewType",
            "traits": {
                "smithy.api#documentation": "<p>Renewal frequency.</p>"
            }
        },
        "ProvisionalConfiguration": {
            "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
            }
        },
        "BorrowConfiguration": {

            "target": "com.amazonaws.licensemanager#BorrowConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
            }
```

```
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },

        {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of
license entitlements with specific Amazon Web Services accounts.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantRequest": {
        "type": "structure",
        "members": {
```

"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},

"Principals": {
"target": "com.amazonaws.licensemanager#PrincipalArnList",
"traits": {
"smithy.api#documentation": " The grant principals. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CreateGrantResponse":

```
{
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Grant version.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#CreateGrantVersion": {
        "type": "operation",
        "input": {

    "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
```

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            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

             "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                     "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>"
                }
            },
            "AllowedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
```

"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",

"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the grant. "
}
}
}
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant
status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New version of the grant. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseResponse"
},
"errors": [

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
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"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Creates a license configuration. \n A license configuration is an abstraction of a customer license
agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a \n license must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension used to track the license inventory. ",
"smithy.api#required": {}
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {

"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows. \n \n \n \n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n <code>licenseAffinityToHost</code> |\n <code>maximumCores</code> | <code>minimumCores</code>\n \n \n \n \n <code>Instances</code> dimension: <code>allowedTenancy</code> | \n <code>maximumCores</code> | <code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n \n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n <code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code>\n \n \n \n \n <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n <code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the license configuration. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
}
}

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    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest":
{
        "type": "structure",
        "members": {
```

"ResourceArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource you are converting the license type for. ",
"smithy.api#required": {}
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting from. \n For the structure of the source license, see Convert a license type using the AWS CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting to. For the structure of the destination license, see Convert a license type using the AWS CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the created license type conversion task. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"

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        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Creates a report generator.</p>"
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
          "ReportGeneratorName": {
            "target":
 "com.amazonaws.licensemanager#ReportGeneratorName",
            "traits": {
              "smithy.api#documentation": "<p>Name of the report generator.</p>",
              "smithy.api#required": {}
            }
          },
          "Type": {
            "target": "com.amazonaws.licensemanager#ReportTypeList",
            "traits": {
              "smithy.api#documentation": "<p>Type of reports to generate. The following report types an be
generated:</p>\n <ul>\n <li>\n <p>License configuration report - Reports the number and
details of consumed licenses for a license configuration.</p>\n </li>\n <li>\n <p>Resource
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report - Reports the tracked licenses and resource consumption for a license configuration. \n \n
",
"smithy.api#required": {}
}
},

"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " Defines the type of license configuration the report generator
tracks. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. Reports can be
generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide
to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {

"target": "com.amazonaws.licensemanager#String",
"traits":
{
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the new report generator. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseRequest": {
"type": "structure",
"members": {
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. ",
"smithy.api#required": {}
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits": {
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region for the license. ",
"smithy.api#required": {}
}
},
"Validity": {

"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation":
" Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {

"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}

}
}
}
}
},

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    "com.amazonaws.licensemanager#CreateLicenseResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License version.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersion":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
```

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            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product name.</p>",
                    "smithy.api#required": {}
                }
            },
            "Issuer": {
                "target": "com.amazonaws.licensemanager#Issuer",
                "traits": {
                    "smithy.api#documentation": "<p>License issuer.</p>",
                    "smithy.api#required": {}
                }
            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

"smithy.api#documentation":
" Home Region of the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target":
"com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",

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            "smithy.api#required": {}
          }
        },
        "SourceVersion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Current version of the license.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>License ARN.</p>"
          }
        },

      "Version": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>New version of the license.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#LicenseStatus",
          "traits": {
            "smithy.api#documentation": "<p>License status.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#CreateToken": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#CreateTokenRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#CreateTokenResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
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{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a long-lived token. \n A refresh token is a JWT token used to get an access token. With an access token,\n you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n call License Manager to manage the specified license. "
}
},
"com.amazonaws.licensemanager#CreateTokenRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n JWT token. ",
"smithy.api#required": {}
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n License Manager does not check whether the roles are in use. "
}
},
"ExpirationInDays": {
"target": "com.amazonaws.licensemanager#Integer",

"traits": {
"smithy.api#documentation": " Token expiration, in days, counted from token creation. The default is 365 days. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller to be included in the JWT token. The data is mapped\n to the amr claim of the JWT token. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Idempotency token, valid for 10 minutes. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CreateTokenResponse": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. "
}
},
"TokenType": {
"target": "com.amazonaws.licensemanager#TokenType",
"traits": {
"smithy.api#documentation": " Token type. "
}
},
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token, encoded as a JWT token. "
}
}
}
},
"com.amazonaws.licensemanager#DateTime": {
"type": "timestamp"

```
    },
    "com.amazonaws.licensemanager#DatetimeRange": {
        "type": "structure",
        "members": {
            "Begin": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Start of the time range.</p>",
                    "smithy.api#required": {}
                }
            },
            "End": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>End of the time range.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC
format.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
```

```
  },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      },
      {
        "target": "com.amazonaws.licensemanager#ValidationException"
      }
    ],
    "traits": {
      "smithy.api#documentation": "<p>Deletes the specified grant.</p>"
    }
  },
  "com.amazonaws.licensemanager#DeleteGrantRequest": {
    "type": "structure",
    "members": {
      "GrantArn": {
        "target": "com.amazonaws.licensemanager#Arn",
        "traits": {
          "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
          "smithy.api#required": {}
        }
      },
      "StatusReason": {
        "target": "com.amazonaws.licensemanager#StatusReasonMessage",
        "traits": {

    "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
        }
      },
      "Version": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Current version of the grant.</p>",
          "smithy.api#required": {}
        }
      }
    }
  },
  "com.amazonaws.licensemanager#DeleteGrantResponse": {
    "type": "structure",
    "members": {
      "GrantArn": {
        "target": "com.amazonaws.licensemanager#Arn",
        "traits": {
          "smithy.api#documentation": "<p>Grant ARN.</p>"
        }
      },
      "Status": {
```

"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation":
" Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
}
},
"com.amazonaws.licensemanager#DeleteLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],

```
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
         },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license configuration.</p> \n          <p>You cannot
delete a license configuration
 that is in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
```

"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified report generator. \n This action deletes the report generator, which stops it from generating future reports.\n The action cannot be reversed. It has no effect on the previous reports from this generator. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to be deleted. ",
"smithy.api#required": {}
}
}
}
},

"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#DeleteLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#DeleteLicenseResponse": {
"type": "structure",
"members": {
"Status": {
"target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"DeletionDate": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date when the license is deleted. "
}

```
            }
        }
    },
    "com.amazonaws.licensemanager#DeleteToken": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
        },
        "errors": [
            {

      "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
        }

  },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>",
```

"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#DeleteTokenResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#DigitalSignatureMethod": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "JWT_PS384",
"name": "JWT_PS384"
}
]
}
},
"com.amazonaws.licensemanager#Entitlement": {
"type": "structure",

"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement resource. Use only if the unit is None. "
}
},
"MaxCount": {
"target": "com.amazonaws.licensemanager#Long",
"traits": {
"smithy.api#documentation": " Maximum entitlement count. Use if the unit is not None. "
}
},
"Overage": {
"target": "com.amazonaws.licensemanager#BoxBoolean",

"traits": {
"smithy.api#documentation": " Indicates whether overages are allowed. "

```
            }
          },
          "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementUnit",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement unit.</p>",
              "smithy.api#required": {}
            }
          },
          "AllowCheckIn": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>Indicates whether check-ins are allowed.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes a resource entitled for use with a license.</p>"
        }
      },
      "com.amazonaws.licensemanager#EntitlementData": {
        "type": "structure",
         "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement data name.</p>",
              "smithy.api#required": {}
            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement data value.</p>"
            }
          },
          "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement data unit.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Data associated
with an entitlement resource.</p>"
        }
```

```
},
"com.amazonaws.licensemanager#EntitlementDataList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#EntitlementData"
    }
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "Count",
                "name": "COUNT"
            },
            {
                "value": "None",
                "name": "NONE"
            },
            {
                "value": "Seconds",
                "name": "SECONDS"
            },
            {
                "value": "Microseconds",
                "name": "MICROSECONDS"
            },
            {

"value": "Milliseconds",
                "name": "MILLISECONDS"
            },
            {
                "value": "Bytes",
                "name": "BYTES"
            },
            {
                "value": "Kilobytes",
                "name": "KILOBYTES"
            },
            {
                "value": "Megabytes",
                "name": "MEGABYTES"
            },
            {
                "value": "Gigabytes",
                "name": "GIGABYTES"
            },
```

```
            {
              "value": "Terabytes",
              "name": "TERABYTES"
            },
            {
              "value": "Bits",
              "name": "BITS"
            },
            {
              "value": "Kilobits",
              "name": "KILOBITS"
             },
            {
              "value": "Megabits",
              "name": "MEGABITS"
            },
            {
              "value": "Gigabits",
              "name": "GIGABITS"
            },
            {
              "value": "Terabits",
              "name": "TERABITS"
            },
            {
              "value": "Percent",
              "name": "PERCENT"
            },
            {
              "value": "Bytes/Second",
              "name": "BYTES_PER_SECOND"
            },
            {
              "value": "Kilobytes/Second",
              "name": "KILOBYTES_PER_SECOND"
            },
            {
              "value": "Megabytes/Second",
              "name": "MEGABYTES_PER_SECOND"

        },
            {
              "value": "Gigabytes/Second",
              "name": "GIGABYTES_PER_SECOND"
            },
            {
              "value": "Terabytes/Second",
              "name": "TERABYTES_PER_SECOND"
```

```
            },
            {
                "value": "Bits/Second",
                "name": "BITS_PER_SECOND"
            },
            {
                "value": "Kilobits/Second",
                "name": "KILOBITS_PER_SECOND"
            },
            {
                "value": "Megabits/Second",
                "name": "MEGABITS_PER_SECOND"
            },
            {
                "value": "Gigabits/Second",
                "name": "GIGABITS_PER_SECOND"
            },
            {
                "value": "Terabits/Second",

"name": "TERABITS_PER_SECOND"
            },
            {
                "value": "Count/Second",
                "name": "COUNT_PER_SECOND"
            }
        ]
    }
},
"com.amazonaws.licensemanager#EntitlementList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Entitlement"
    }
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
```

"com.amazonaws.licensemanager#EntitlementUnit": {

"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "Count",
"name": "COUNT"
},
{
"value": "None",
"name": "NONE"
},
{
"value": "Seconds",
"name": "SECONDS"
},
{
"value": "Microseconds",
"name": "MICROSECONDS"
},
{
"value": "Milliseconds",
"name": "MILLISECONDS"
},
{
"value": "Bytes",
"name": "BYTES"
},
{
"value": "Kilobytes",
"name": "KILOBYTES"

},
{
"value": "Megabytes",
"name": "MEGABYTES"
},
{
"value": "Gigabytes",
"name": "GIGABYTES"
},
{
"value": "Terabytes",
"name": "TERABYTES"
},
{
"value": "Bits",

"name": "BITS"
},
{
"value": "Kilobits",
"name": "KILOBITS"
},
{
"value": "Megabits",
"name": "MEGABITS"
},
{
"value": "Gigabits",
"name": "GIGABITS"
},
{
"value": "Terabits",
"name": "TERABITS"
},
{
"value": "Percent",
"name": "PERCENT"
},
{
"value": "Bytes/Second",
"name": "BYTES_PER_SECOND"
},
{
"value": "Kilobytes/Second",
"name": "KILOBYTES_PER_SECOND"
},
{
"value": "Megabytes/Second",
"name": "MEGABYTES_PER_SECOND"
},
{
"value": "Gigabytes/Second",
"name": "GIGABYTES_PER_SECOND"
},
{
"value": "Terabytes/Second",
"name": "TERABYTES_PER_SECOND"
},
{

"value": "Bits/Second",
"name": "BITS_PER_SECOND"
},
{

```
                "value": "Kilobits/Second",
                "name": "KILOBITS_PER_SECOND"
            },
            {
                "value": "Megabits/Second",
                "name": "MEGABITS_PER_SECOND"
            },
            {
                "value": "Gigabits/Second",
                "name": "GIGABITS_PER_SECOND"
            },
            {
                "value": "Terabits/Second",
                "name": "TERABITS_PER_SECOND"
            },
            {
                "value": "Count/Second",
                "name": "COUNT_PER_SECOND"
            }
        ]
    }
},
"com.amazonaws.licensemanager#EntitlementUsage": {
    "type": "structure",

"members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                "smithy.api#required": {}
            }
        },
        "ConsumedValue": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxCount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
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            "traits": {
              "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
        }
      },
      "com.amazonaws.licensemanager#EntitlementUsageList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
      },
      "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
        },
        "errors": [
          {

        "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
```

"traits": {
"smithy.api#documentation": " Extends the expiration date for license consumption. "
}
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",
"smithy.api#required": {}
}
},
"DryRun": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#documentation": " Checks whether you have the required permissions for the action, without actually making the request. Provides an error response if you do not have the required permissions. "
}
}
}
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
"type": "structure",

"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license consumption expires. "
}
}
}
},
"com.amazonaws.licensemanager#FailedDependencyException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
},
"ErrorCode": {

"target": "com.amazonaws.licensemanager#String"
}
},

"traits": {
"aws.protocols#awsQueryError": {
"code": "FailedDependency",
"httpResponseCode": 424
},
"smithy.api#documentation": " A dependency required to run the API is missing. ",
"smithy.api#error": "client",
"smithy.api#httpError": 424
}
},
"com.amazonaws.licensemanager#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#FilterName",
"traits": {
"smithy.api#documentation": " Name of the filter. Filter names are case-sensitive. "
}
},
"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " Filter values. Filter values are case-sensitive. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter name and value pair that is used to return more specific results from a\n describe operation. Filters can be used to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FilterLimitExceeded",
"httpResponseCode": 400

```
            },
            "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
            "smithy.api#error":
"client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#FilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Filter"
        }
    },
    "com.amazonaws.licensemanager#FilterName": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#FilterValue": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#FilterValues": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#FilterValue",
            "traits": {
                "smithy.api#xmlName": "item"
            }
        }
    },
    "com.amazonaws.licensemanager#Filters": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Filter",
            "traits": {
                "smithy.api#xmlName":
"item"
            }
        }
    },
    "com.amazonaws.licensemanager#GetAccessToken": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
        },
        "errors": [
            {
```

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"

}
],
"traits": {
"smithy.api#documentation": " Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access tokens\n are valid for one hour. "
}
},
"com.amazonaws.licensemanager#GetAccessTokenRequest": {
"type": "structure",
"members": {
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token, encoded as a JWT token. ",
"smithy.api#required": {}
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Token properties to validate against those present in the JWT token. "
}

}
}
},
"com.amazonaws.licensemanager#GetAccessTokenResponse": {
"type": "structure",
"members": {
"AccessToken": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Temporary access token. "

```
            }
        }
    }
},
"com.amazonaws.licensemanager#GetGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
```

```
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
                "smithy.api#documentation": "<p>Grant details.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",

    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
```

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license
configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
```

"com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationId":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Unique ID for the license configuration. "
}
},
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation":
" Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension for which the licenses are counted. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of available licenses. "
}
},
"LicenseCountHardLimit": {

"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Sets the number of available licenses as a hard limit. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses assigned to resources. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License configuration status. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the
owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList":
{
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "

```
            }
        },
        "AutomatedDiscoveryInformation": {
            "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
            "traits": {
                "smithy.api#documentation": "<p>Automated discovery information.</p>"
            }
        },
        "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
    "type":
 "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets
 information about the specified license type conversion task.</p>"
    }
},
```

"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information on. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted to. "

}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}

```
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
                }
            },
            "StartTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
                }
            },
            "LicenseConversionTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                 "traits": {
                    "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
                }
            },
            "EndTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation":
"<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {
            "ReportGenerator": {
                "target": "com.amazonaws.licensemanager#ReportGenerator",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic
reports about your license configurations.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    }
  },
  "com.amazonaws.licensemanager#GetLicenseResponse": {
    "type": "structure",
    "members": {
        "License": {
            "target":
"com.amazonaws.licensemanager#License",
            "traits": {
                "smithy.api#documentation": "<p>License details.</p>"
            }
        }
    }
  },
  "com.amazonaws.licensemanager#GetLicenseUsage": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
         },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageResponse":
{
        "type": "structure",
        "members": {
            "LicenseUsage": {
                "target": "com.amazonaws.licensemanager#LicenseUsage",
                "traits": {
                    "smithy.api#documentation": "<p>License usage details.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
```

{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets the License Manager settings for the current Region. "
}
},
"com.amazonaws.licensemanager#GetServiceSettingsRequest": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Regional S3 bucket path for storing reports, license trail event data, discovery data,\n and so on. "
}

},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " SNS topic configured to receive notifications from License Manager. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Indicates whether Organizations is integrated with License Manager for\n cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether cross-account discovery is enabled. "
}

```
    },
            "LicenseManagerResourceShareArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
Manager management account \n        provides member accounts with access to this share.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#Grant": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {

                   "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ParentArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Parent ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>License ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "GranteePrincipalArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The grantee principal ARN.</p>",
```

"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"Version": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. ",
"smithy.api#required": {}
}
},
"GrantedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Granted operations. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes a grant. "
}
},
"com.amazonaws.licensemanager#GrantList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Grant"
}

```
},
"com.amazonaws.licensemanager#GrantStatus": {
    "type": "string",

  "traits": {
        "smithy.api#enum": [
            {
                "value": "PENDING_WORKFLOW",
                "name": "PENDING_WORKFLOW"
            },
            {
                "value": "PENDING_ACCEPT",
                "name": "PENDING_ACCEPT"
            },
            {
                "value": "REJECTED",
                "name": "REJECTED"
            },
            {
                "value": "ACTIVE",
                "name": "ACTIVE"
            },
            {
                "value": "FAILED_WORKFLOW",
                "name": "FAILED_WORKFLOW"
            },
            {
                "value": "DELETED",
                "name": "DELETED"
            },
            {
                "value": "PENDING_DELETE",
                "name": "PENDING_DELETE"
             },
            {
                "value": "DISABLED",
                "name": "DISABLED"
            },
            {
                "value": "WORKFLOW_COMPLETED",
                "name": "WORKFLOW_COMPLETED"
            }
        ]
    }
},
"com.amazonaws.licensemanager#GrantedLicense": {
    "type": "structure",
    "members": {
```

"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. "
}

},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " Granted license issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the granted license. "

}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " Granted license status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the granted license is valid, in

ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Granted license beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Granted license metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Creation time of the granted license. "

}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Version of the granted license. "
}
},
"ReceivedMetadata": {
"target": "com.amazonaws.licensemanager#ReceivedMetadata",
"traits": {
"smithy.api#documentation": " Granted license received metadata. "
}
}
},
"traits": {

"smithy.api#documentation": " Describes a license that is granted to a grantee. "
}
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#GrantedLicense"
}
},
"com.amazonaws.licensemanager#ISO8601DateTime":
{
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
}
},
"com.amazonaws.licensemanager#Integer": {
"type": "integer",
"traits": {
"smithy.api#box": {}
}
},
"com.amazonaws.licensemanager#InvalidParameterValueException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidParameterValueProvided",

"httpResponseCode": 400
},
"smithy.api#documentation": " One or more parameter values are not valid. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#InvalidResourceStateException": {
"type": "structure",
"members": {

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            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidResourceState",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n        <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
            "smithy.api#error": "client",
             "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InventoryFilter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the filter.</p>",
                    "smithy.api#required": {}
                }
            },
            "Condition": {
                "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
                "traits": {
                    "smithy.api#documentation": "<p>Condition of the filter.</p>",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Value
 of the filter.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>An inventory filter.</p>"
        }
    },
    "com.amazonaws.licensemanager#InventoryFilterCondition": {
        "type": "string",
        "traits": {
```

"smithy.api#enum": [
{
"value": "EQUALS",
"name": "EQUALS"
},
{
"value": "NOT_EQUALS",
"name": "NOT_EQUALS"
},
{
"value": "BEGINS_WITH",
"name": "BEGINS_WITH"
},
{
"value": "CONTAINS",
"name": "CONTAINS"
}
]
}
},
"com.amazonaws.licensemanager#InventoryFilterList":
{
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#InventoryFilter"
}
},
"com.amazonaws.licensemanager#Issuer": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. ",
"smithy.api#required": {}
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
}
},
"traits": {

"smithy.api#documentation": " Details about the issuer of a license. "
}
},
"com.amazonaws.licensemanager#IssuerDetails": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. "
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer key fingerprint. "
}
}
},
"traits": {
"smithy.api#documentation": " Details associated with the issuer of a license. "
}
},
"com.amazonaws.licensemanager#License": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. "
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " License issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "

}
},

"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " License metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License creation time. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits":
{
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#documentation": " Software license that is managed in License Manager. "
}
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
"type": "structure",
"members": {
"LicenseConfigurationId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Unique ID of the license configuration. "
}
},
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}

},
"Name": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension to use to track the license inventory. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Number of available licenses as a hard limit. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "

}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed. "
}

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            },
            "Status": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Status of the license configuration.</p>"
                }
            },
            "OwnerAccountId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Account ID of the license configuration's owner.</p>"
                }
            },
            "ConsumedLicenseSummaryList": {
                "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",

        "traits": {
                    "smithy.api#documentation": "<p>Summaries for licenses consumed by various resources.</p>"
                }
            },
            "ManagedResourceSummaryList": {
                "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>Summaries for managed resources.</p>"
                }
            },
            "ProductInformationList": {
                "target": "com.amazonaws.licensemanager#ProductInformationList",
                "traits": {
                    "smithy.api#documentation": "<p>Product information.</p>"
                }
            },
            "AutomatedDiscoveryInformation": {
                "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
                "traits": {
                    "smithy.api#documentation": "<p>Automated
 discovery information.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A license configuration is an abstraction of a customer license
agreement that can be\n        consumed and enforced by License Manager. Components include specifications for
the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n
Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n        must be associated with a
host), and the number of licenses purchased and used.</p>"
        }
    },
```

"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name
(ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource
consuming licenses. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was associated with the
resource. "
}
},
"AmiAssociationScope":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-
account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an association with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
}

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    },
    "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "AVAILABLE",
                    "name": "AVAILABLE"
                },
                 {
                    "value": "DISABLED",
                    "name": "DISABLED"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceStatus": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {

"smithy.api#documentation": "<p>Status of the resource.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
                }
            },
            "AssociationTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time when the license configuration was initially associated with
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the resource. "
                }
            },
            "ConsumedLicenses": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": " Number of licenses consumed by the resource. "
                }
            }

        },
        "traits": {
            "smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurations": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfiguration"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionContext": {
        "type": "structure",
        "members": {
            "UsageOperation": {
                "target": "com.amazonaws.licensemanager#UsageOperation",
                "traits": {
                    "smithy.api#documentation": " The Usage operation value that corresponds to the license type you are converting your resource from. For more information about which platforms correspond to which usage operation values see Sample data: usage operation by platform\n \n "
                }
            }
        },
        "traits": {
            "smithy.api#documentation": " Information about a license type conversion task. "
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTask": {
        "type": "structure",
        "members": {

"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the license type conversion task. "
}
},
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource associated with the license type\n conversion task. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted to. "
}
},

"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " The status of the conversion task. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was started at. "
}
},
"LicenseConversionTime": {

"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " The time the usage operation value of the resource was changed. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was completed. "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTaskId": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
}
},
"com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
"type":
"string",
"traits": {
"smithy.api#enum": [
{
"value": "IN_PROGRESS",
"name": "IN_PROGRESS"
},
{
"value": "SUCCEEDED",
"name": "SUCCEEDED"
},
{
"value": "FAILED",
"name": "FAILED"
}
]
}
},
"com.amazonaws.licensemanager#LicenseConversionTasks": {

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    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#LicenseConversionTask"
    }
},
"com.amazonaws.licensemanager#LicenseCountingType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "vCPU",
                "name": "VCPU"

            },
            {
                "value": "Instance",
                "name": "INSTANCE"
            },
            {
                "value": "Core",
                "name": "CORE"
            },
            {
                "value": "Socket",
                "name": "SOCKET"
            }
        ]
    }
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "PENDING_DELETE",
                "name": "PENDING_DELETE"
            },
            {
                "value": "DELETED",
                "name": "DELETED"
            }
        ]
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#License"
```

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        }
    },
    "com.amazonaws.licensemanager#LicenseOperationFailure": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type.</p>"
                }
            },
            "ErrorMessage": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Error message.</p>"

        }
            },
            "FailureTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Failure time.</p>"
                }
            },
            "OperationName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the operation.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the
resource.</p>"
                }
            },
            "OperationRequestedBy": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

"smithy.api#documentation": " The requester is \"License Manager Automated Discovery\". "
}
},
"MetadataList": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Reserved. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the failure of a license operation. "
}
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailure"
}
},
"com.amazonaws.licensemanager#LicenseSpecification": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseSpecification"
}

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    },
    "com.amazonaws.licensemanager#LicenseStatus":
{
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "AVAILABLE",
                    "name": "AVAILABLE"
                },
                {
                    "value": "PENDING_AVAILABLE",
                    "name": "PENDING_AVAILABLE"
                },
                {
                    "value": "DEACTIVATED",
                    "name": "DEACTIVATED"
                },
                {
                    "value": "SUSPENDED",
                    "name": "SUSPENDED"
                },
                {
                    "value": "EXPIRED",
                    "name": "EXPIRED"
                },
                {
                    "value": "PENDING_DELETE",
                    "name": "PENDING_DELETE"
                },
                {

                 "value": "DELETED",
                    "name": "DELETED"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#LicenseUsage": {
        "type": "structure",
        "members": {
            "EntitlementUsages": {
                "target": "com.amazonaws.licensemanager#EntitlementUsageList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlement usages.</p>"
                }
            }
        },
```

"traits": {
"smithy.api#documentation": " Describes the entitlement usage associated with a license. "
}
},
"com.amazonaws.licensemanager#LicenseUsageException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {

"aws.protocols#awsQueryError": {
"code": "LicenseUsageFailure",
"httpResponseCode": 412
},
"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{

"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the resource associations for the specified license configuration. \n Resource associations need not consume licenses from a license configuration. \n For example, an AMI or a stopped instance might not consume a license (depending on \n the license rules). "
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationAssociations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license configuration. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {
"target":
"com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants distributed for the specified license. "
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranteePrincipalARN</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configuration operations that failed. "
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name of the license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "

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            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse": {
        "type": "structure",
        "members": {
          "LicenseOperationFailureList": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
            "traits": {
              "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListLicenseConfigurations":
    {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
```

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        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the license configurations for your account.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
          "LicenseConfigurationArns": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
           },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "Filters": {
            "target": "com.amazonaws.licensemanager#Filters",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n                Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n                Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n
                <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement
is used. \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n
</li>\n            <li>\n                <p>\n                <code>usagelimitExceeded</code> - A Boolean value that indicates
whether the available licenses have been exceeded. \n                Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
            }
          }
        }
      },
```

"com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
"type": "structure",
"members": {
"LicenseConfigurations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurations",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "

}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasks": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target":
"com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license type conversion tasks for your account. "
}
},

"com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
"type": "structure",
"members": {
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " \n Filters to scope the results. Valid filters are <code>ResourceArns</code> and <code>Status</code>.\n "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
"type": "structure",
"members": {
"LicenseConversionTasks": {
"target": "com.amazonaws.licensemanager#LicenseConversionTasks",
"traits": {
"smithy.api#documentation": " Information about the license configuration tasks for your account. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the report generators for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest": {
"type":
"structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported:
\n \n \n \n <code>LicenseConfigurationArn</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to
return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
"type": "structure",
"members": {
"ReportGenerators": {
"target": "com.amazonaws.licensemanager#ReportGeneratorList",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic reports about your license
configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
"type": "operation",
"input":
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Describes the
 license configurations for the specified resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a resource that has an
associated license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",

             "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
        "type": "structure",
        "members": {
            "LicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
                }
            },
```

"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation":
" Lists all versions of the specified license. "
}
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},

"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum
number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#LicenseList",
"traits": {
"smithy.api#documentation": " License details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenses": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicensesRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicensesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{

"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses for your account. "
}
},
"com.amazonaws.licensemanager#ListLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>Status</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}

```
        }
    },
    "com.amazonaws.licensemanager#ListLicensesResponse": {
        "type": "structure",
        "members": {
            "Licenses": {

    "target": "com.amazonaws.licensemanager#LicenseList",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrants": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },

{
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
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            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists grants that are received but not accepted.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
        "type": "structure",

    "members": {
            "GrantArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>ProductSKU</code>\n            </p>\n
        </li>\n            <li>\n                <p>\n                <code>LicenseIssuerName</code>\n            </p>\n
</li>\n            <li>\n                <p>\n                <code>LicenseArn</code>\n            </p>\n            </li>\n
<li>\n                <p>\n
  <code>GrantStatus</code>\n            </p>\n            </li>\n            <li>\n                <p>\n
<code>GranterAccountId</code>\n            </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
        "type": "structure",
        "members": {
            "Grants": {
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"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Received grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"

},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists received licenses. "

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        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
        "type": "structure",

  "members": {
            "LicenseArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>ProductSKU</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                <code>Status</code>\n                </p>\n            </li>\n
<li>\n                <p>\n                <code>Fingerprint</code>\n                </p>\n            </li>\n            <li>\n
<p>\n                <code>IssuerName</code>\n
            </p>\n            </li>\n            <li>\n                <p>\n                <code>Beneficiary</code>\n                </p>\n
        </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
        "type": "structure",
        "members": {
            "Licenses": {

  "target": "com.amazonaws.licensemanager#GrantedLicenseList",
                "traits": {
                    "smithy.api#documentation": "<p>Received license details.</p>"
                }
            },
```

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            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventory": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"

},
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FailedDependencyException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryRequest": {

        "type": "structure",
        "members": {
```

"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#InventoryFilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>application_name</code> - The name of the application. \n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n \n \n \n <code>license_included</code> - The type of license included. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n Possible values are <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n \n <code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n \n \n \n <code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account). \n \n "
}
}
}
},
"com.amazonaws.licensemanager#ListResourceInventoryResponse": {
"type": "structure",
"members": {
"ResourceInventoryList": {
"target": "com.amazonaws.licensemanager#ResourceInventoryList",
"traits":
{
"smithy.api#documentation": " Information about the resources. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",

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                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the tags for the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required":
 {}
                }
            }
        }
```

```
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the tags.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
            "TokenIds": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
```

"smithy.api#documentation": " Token IDs. "
}
},
"Filters": {
"target":
"com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filter is supported: \n
\n \n \n <code>LicenseArns</code>\n \n \n
"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListTokensResponse":
{
"type": "structure",
"members": {
"Tokens": {
"target": "com.amazonaws.licensemanager#TokenList",
"traits": {
"smithy.api#documentation": " Received token details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"

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        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying license\n        consumption details by resource
 at a selected point in time. Use this action to audit the\n        current license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
```

"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>resourceArn</code> - The ARN of the license configuration resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceAccount</code> - The ID of the account that owns the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationUsageList": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#Location": {
"type": "string"
},
"com.amazonaws.licensemanager#Long": {
"type": "long",
"traits": {

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        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummary": {
    "type": "structure",
    "members": {
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
            }
        },
        "AssociationCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {
    "type": "integer",
    "traits": {
        "smithy.api#box": {},
        "smithy.api#range": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
```

```
            }
        }
    },
    "com.amazonaws.licensemanager#Message": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#Metadata": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The key name.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes key/value pairs.</p>"
        }

    },
    "com.amazonaws.licensemanager#MetadataList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Metadata"
        }
    },
    "com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>There are no entitlements found for this license, or the entitlement
maximum count is reached.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#OrganizationConfiguration": {
```

"type": "structure",
"members": {
"EnableIntegration": {
"target": "com.amazonaws.licensemanager#Boolean",

"traits": {
"smithy.api#documentation": " Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when

the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n
Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n
Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n
<code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n \n ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information for a license configuration. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
"type": "structure",
"members": {
"ProductInformationFilterName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Filter name. ",
"smithy.api#required": {}
}
},

"ProductInformationFilterValue": {
"target":
"com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " Filter value. "
}
},
"ProductInformationFilterComparator": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Logical operator. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information filters. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ProductInformationFilter"
}
},
"com.amazonaws.licensemanager#ProductInformationList": {
"type": "list",

"member": {
"target": "com.amazonaws.licensemanager#ProductInformation"
}
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
"type": "structure",
"members": {
"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the provisional configuration, in minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"com.amazonaws.licensemanager#RateLimitExceededException": {

"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"

}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "RateLimitExceeded",
"httpResponseCode": 429
},
"smithy.api#documentation": " Too many requests have been submitted. Try again after a brief wait. ",
"smithy.api#error": "client",
"smithy.api#httpError": 429
}
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
"type": "structure",
"members": {
"ReceivedStatus": {
"target": "com.amazonaws.licensemanager#ReceivedStatus",
"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {

"smithy.api#documentation": " Received status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations. "
}
}
},
"traits": {
"smithy.api#documentation": " Metadata associated with received licenses and grants. "
}
},
"com.amazonaws.licensemanager#ReceivedStatus": {
"type": "string",
"traits": {

```
            "smithy.api#enum": [
                {
                    "value": "PENDING_WORKFLOW",
                    "name": "PENDING_WORKFLOW"
                },
                {
                    "value": "PENDING_ACCEPT",
                    "name": "PENDING_ACCEPT"
                },
                 {
                    "value": "REJECTED",
                    "name": "REJECTED"
                },
                {
                    "value": "ACTIVE",
                    "name": "ACTIVE"
                },
                {
                    "value": "FAILED_WORKFLOW",
                    "name": "FAILED_WORKFLOW"
                },
                {
                    "value": "DELETED",
                    "name": "DELETED"
                },
                {
                    "value": "DISABLED",
                    "name": "DISABLED"
                },
                {
                    "value": "WORKFLOW_COMPLETED",
                    "name": "WORKFLOW_COMPLETED"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#RedirectException": {
        "type": "structure",
        "members": {

"Location": {
                "target": "com.amazonaws.licensemanager#Location",
                "traits": {
                    "smithy.api#httpHeader": "Location"
                }
            },
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
```

```
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 308
        }
    },
    "com.amazonaws.licensemanager#RejectGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#RejectGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#RejectGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest":
{
        "type": "structure",
        "members": {
            "GrantArn": {
```

```
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanager#RejectGrantResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"

    }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#RenewType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "None",
                "name": "NONE"
            },
            {
                "value": "Weekly",
                "name": "WEEKLY"
            },
            {
                "value": "Monthly",
                "name": "MONTHLY"
            }
```

```
            ]
          }
        },
        "com.amazonaws.licensemanager#ReportContext": {
          "type": "structure",
          "members": {

    "licenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                  "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration that this generator reports on.</p>",
                  "smithy.api#required": {}
                }
              }
          },
          "traits": {
            "smithy.api#documentation": "<p>Details of the license configuration that this generator reports on.</p>"
          }
        },
        "com.amazonaws.licensemanager#ReportFrequency": {
          "type": "structure",
          "members": {
            "value": {
              "target": "com.amazonaws.licensemanager#Integer",
              "traits": {
                "smithy.api#documentation": "<p>Number of times within the frequency period that a report is generated.  \n        The only supported value is <code>1</code>.</p>"

              }
              },
              "period": {
              "target": "com.amazonaws.licensemanager#ReportFrequencyType",
              "traits": {
                "smithy.api#documentation": "<p>Time period between each report. The period can be daily, weekly, or monthly.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
          }
        },
        "com.amazonaws.licensemanager#ReportFrequencyType": {
          "type": "string",
          "traits": {
            "smithy.api#enum": [
              {
```

```
            "value": "DAY",
            "name": "DAY"
          },
          {
            "value": "WEEK",
            "name": "WEEK"
          },
          {
            "value": "MONTH",

        "name": "MONTH"
          }
        ]
      }
    },
    "com.amazonaws.licensemanager#ReportGenerator": {
      "type": "structure",
      "members": {
        "ReportGeneratorName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Name of the report generator.</p>"
          }
        },
        "ReportType": {
          "target": "com.amazonaws.licensemanager#ReportTypeList",
          "traits": {
            "smithy.api#documentation": "<p>Type of reports that are generated.</p>"
          }
        },
        "ReportContext": {
          "target": "com.amazonaws.licensemanager#ReportContext",
          "traits": {
            "smithy.api#documentation": "<p>License configuration type for this generator.</p>"
           }
        },
        "ReportFrequency": {
          "target": "com.amazonaws.licensemanager#ReportFrequency",
          "traits": {
            "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
          }
        },
        "LicenseManagerReportGeneratorArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>"
          }
        },
```

"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}
},
"LastRunFailureReason": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Failure message for the last report generation attempt. "
}
},
"LastReportGenerationTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the last report was generated at. "
}
},
"ReportCreatorAccount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Web Services account ID used to create the report generator. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the report was created. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",

```
            "traits": {
                "smithy.api#documentation": "<p>Tags associated with the report generator.</p>"
            }
        }
    },

"traits": {
        "smithy.api#documentation": "<p>Describe the details of a report generator.</p>"
    }
  },
  "com.amazonaws.licensemanager#ReportGeneratorList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportGenerator"
    }
  },
  "com.amazonaws.licensemanager#ReportGeneratorName": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 100
        }
    }
  },
  "com.amazonaws.licensemanager#ReportType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "LicenseConfigurationSummaryReport",
                "name": "LICENSE_CONFIGURATION_SUMMARY_REPORT"
            },
            {
                "value": "LicenseConfigurationUsageReport",
                 "name": "LICENSE_CONFIGURATION_USAGE_REPORT"
            }
        ]
    }
  },
  "com.amazonaws.licensemanager#ReportTypeList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportType"
    }
  },
  "com.amazonaws.licensemanager#ResourceInventory": {
    "type": "structure",
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        "members": {
          "ResourceId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>ID of the resource.</p>"
            }
          },
          "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
              "smithy.api#documentation": "<p>Type of resource.</p>"
            }
          },
           "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
          },
          "Platform": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Platform of the resource.</p>"
            }
          },
          "PlatformVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
            }
          },
          "ResourceOwningAccountId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation":
"<p>ID of the account that owns the resource.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about a resource.</p>"
        }
      },
      "com.amazonaws.licensemanager#ResourceInventoryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#ResourceInventory"
        }
```

```
    },
    "com.amazonaws.licensemanager#ResourceLimitExceededException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ResourceLimitExceeded",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>Your resource limits have
been exceeded.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#ResourceNotFoundException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidResource.NotFound",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>The resource cannot be found.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#ResourceType": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "EC2_INSTANCE",
                     "name": "EC2_INSTANCE"
                },
                {
                    "value": "EC2_HOST",
                    "name": "EC2_HOST"
                },
```

```
                {
                    "value": "EC2_AMI",
                    "name": "EC2_AMI"
                },
                {
                    "value": "RDS",
                    "name": "RDS"
                },
                {
                    "value": "SYSTEMS_MANAGER_MANAGED_INSTANCE",
                    "name": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#S3Location": {
        "type": "structure",
        "members": {
            "bucket": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the S3 bucket
 reports are published to.</p>"
                }
            },
            "keyPrefix": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Prefix of the S3 bucket reports are published to.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
        }
    },
    "com.amazonaws.licensemanager#ServerInternalException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InternalError",
                "httpResponseCode": 500
```

```
            },
            "smithy.api#documentation":
"<p>The server experienced an internal error. Try again.</p>",
            "smithy.api#error": "server",
            "smithy.api#httpError": 500
        }
    },
    "com.amazonaws.licensemanager#SignedToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 4096
            }
        }
    },
    "com.amazonaws.licensemanager#StatusReasonMessage": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 400
            },
            "smithy.api#pattern": "^[\\s\\S]+$"
        }
    },
    "com.amazonaws.licensemanager#String": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"

      }
    },
    "com.amazonaws.licensemanager#Tag": {
        "type": "structure",
        "members": {
            "Key": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag key.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag value.</p>"
```

```
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#String"
        }
      },
      "com.amazonaws.licensemanager#TagList":
  {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#Tag"
        }
      },
      "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },

    {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
```

```
        }
    },
    "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>One or more tags.</p>",
                    "smithy.api#required":
 {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
            "TokenType": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>"
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
```

```
            },
            "ExpirationTime": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Token expiration time, in ISO8601-UTC format.</p>"
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Data specified by the caller.</p>"
                }
            },
            "RoleArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the roles included in the
token.</p>"
                }
             },
            "Status": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token status. The possible values are
<code>AVAILABLE</code> and <code>DELETED</code>.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes a token.</p>"
        }
    },
    "com.amazonaws.licensemanager#TokenList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#TokenData"
        }
    },
    "com.amazonaws.licensemanager#TokenString": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 4096
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
```

"com.amazonaws.licensemanager#TokenType":
{
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "REFRESH_TOKEN",
"name": "REFRESH_TOKEN"
}
]
}
},
"com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The digital signature method is unsupported. Try your request again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#UntagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UntagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{

"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Removes the specified tags from the specified license configuration. "
}
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",
"traits": {
"smithy.api#documentation": " Keys identifying the tags to remove. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseConfigurationStatus": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
                "traits": {
                    "smithy.api#documentation": "<p>New status of the license configuration.</p>"
                }
            },
            "LicenseRules": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>New license rule. The only rule that you can add after you create a
license\n        configuration is licenseAffinityToHost.</p>"
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>New number of licenses managed by the license
configuration.</p>"
                }
```

```
            },
            "LicenseCountHardLimit": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>New hard limit of the number of available licenses.</p>"
                }

        },
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>New name of the license configuration.</p>"
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>New description of the license configuration.</p>"
                }
            },
            "ProductInformationList": {
                "target": "com.amazonaws.licensemanager#ProductInformationList",
                "traits": {
                    "smithy.api#documentation": "<p>New product information.</p>"
                }
            },
            "DisassociateWhenNotFound": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
```

{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates a report generator. \n After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated. "

}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to update. ",
"smithy.api#required": {}
}
},
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}

```
                }
            },
            "Type": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports to generate. The following report types are supported:</p>\n <ul>\n <li>\n <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p>\n </li>\n <li>\n <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n </li>\n </ul>",
                    "smithy.api#required": {}
                }
            },
            "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
                    "smithy.api#documentation": "<p>The report context.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportFrequency": {
                "target": "com.amazonaws.licensemanager#ReportFrequency",
                "traits": {
                    "smithy.api#documentation": "<p>Frequency by which reports are generated.</p>",
                    "smithy.api#required": {}
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientRequestToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the report generator.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {}
    },
```

"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#InvalidResourceStateException"

},
{
"target": "com.amazonaws.licensemanager#LicenseUsageException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Adds or removes the specified license configurations for the specified Amazon Web Services resource. \n You can update the license specifications of AMIs, instances, and hosts.\n You cannot update the license specifications for launch templates and CloudFormation templates, \n as they send license configurations to the operation that creates the resource. "
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon Web Services resource. ",
"smithy.api#required": {}

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            }
        },
        "AddLicenseSpecifications": {
            "target": "com.amazonaws.licensemanager#LicenseSpecifications",
            "traits": {
                "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
            }
        },
        "RemoveLicenseSpecifications": {
            "target": "com.amazonaws.licensemanager#LicenseSpecifications",
            "traits": {
                "smithy.api#documentation": "<p>ARNs of the license configurations to remove.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {}
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
    }
```

```
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where
the License Manager information is stored.</p>"
                }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon
 Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Enables integration with Organizations for cross-account
discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Activates cross-account discovery.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#UsageOperation": {
        "type":
 "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            }
        }
    },
    "com.amazonaws.licensemanager#ValidationException": {
```

```
            "type": "structure",
            "members": {
                "Message": {
                    "target": "com.amazonaws.licensemanager#Message"
                }
            },
            "traits": {
                "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
                "smithy.api#error": "client",
                "smithy.api#httpError": 400
            }
        }
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
```

```
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string
```

```
// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

//
Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err
 != nil {
  return err
 }
```

```
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return
 nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
```

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string
```

```
 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
```

```
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
 err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
```

```
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
```

```
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

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```
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package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
```

```
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if
 err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
```

```
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}
```

1.4231 sshtunnel 0.4.0

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tomb - support for clean goroutine termination in Go.

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1.4233 kubernetes-component-base 0.27.5

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1.4235 aws-sdk-go-v2-internal-configsources 1.1.9

1.4235.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
 //
```

```
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
```

```
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}
```

```
func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
```

```
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
```

```
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err
 = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
```

```
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
```

```
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil
 {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
```

```
      run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
    - name: Get Target Files
      run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
       uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
```

```
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity *types.DatetimeRange

 //
 Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
```

```
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return
```

```
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
```

```
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
```

```
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
```

```
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
  return err
```

```
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}
```

AWS SDK for Go
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{
  "smithy": "1.0",
  "metadata": {
    "suppressions": [
      {
        "id": "HttpMethodSemantics",
        "namespace": "*"
      },
      {
        "id": "HttpResponseCodeSemantics",
        "namespace": "*"
      },
      {
        "id": "PaginatedTrait",
        "namespace": "*"
      },
      {
        "id": "HttpHeaderTrait",
        "namespace": "*"
      },
      {
        "id": "HttpUriConflict",
        "namespace": "*"
      },
      {
        "id": "Service",
        "namespace": "*"
      }
    ]
  },
  "shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
      "type": "service",
      "version": "2018-08-01",
      "operations": [
        {
          "target": "com.amazonaws.licensemanager#AcceptGrant"
        },

 {
          "target": "com.amazonaws.licensemanager#CheckInLicense"
        },
        {
          "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
        },

{
"target": "com.amazonaws.licensemanager#CheckoutLicense"
},
{
"target": "com.amazonaws.licensemanager#CreateGrant"
},
{
"target": "com.amazonaws.licensemanager#CreateGrantVersion"
},
{
"target": "com.amazonaws.licensemanager#CreateLicense"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseVersion"
},
{
"target": "com.amazonaws.licensemanager#CreateToken"
},
{
"target": "com.amazonaws.licensemanager#DeleteGrant"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicense"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#DeleteToken"
},
{
"target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

},
{
"target": "com.amazonaws.licensemanager#GetAccessToken"

},
{
"target": "com.amazonaws.licensemanager#GetGrant"
},
{
"target": "com.amazonaws.licensemanager#GetLicense"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseUsage"
},
{
"target": "com.amazonaws.licensemanager#GetServiceSettings"
},
{
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#ListDistributedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
"target": "com.amazonaws.licensemanager#ListLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

"target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListResourceInventory"
},
{
"target": "com.amazonaws.licensemanager#ListTagsForResource"
},
{
"target": "com.amazonaws.licensemanager#ListTokens"
},
{
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#RejectGrant"
},
{
"target": "com.amazonaws.licensemanager#TagResource"
},
{
"target": "com.amazonaws.licensemanager#UntagResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateServiceSettings"
}
],
"traits": {
"aws.api#service": {
"sdkId": "License Manager",
"arnNamespace": "license-manager",
"cloudFormationName": "LicenseManager",
"cloudTrailEventSource": "licensemanager.amazonaws.com",

"endpointPrefix":
"license-manager"
},
"aws.auth#sigv4": {
"name": "license-manager"
},
"aws.protocols#awsJson1_1": {},
"smithy.api#documentation": " License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers. ",
"smithy.api#title": "AWS License Manager",
"smithy.api#xmlNamespace": {
"uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
}
}
},
"com.amazonaws.licensemanager#AcceptGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#AcceptGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#AcceptGrantResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {

"smithy.api#documentation": " Accepts the specified grant. "
}
},
"com.amazonaws.licensemanager#AcceptGrantRequest":
{
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#AcceptGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant
status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
}
},
"com.amazonaws.licensemanager#AccessDeniedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {

```
            "aws.protocols#awsQueryError": {
                "code": "ServiceAccessDenied",
                "httpResponseCode": 401
            },
            "smithy.api#documentation": "<p>Access to resource denied.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 401
        }
    },
    "com.amazonaws.licensemanager#AllowedOperation":
{
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "CreateGrant",
                    "name": "CREATE_GRANT"
                },
                {
                    "value": "CheckoutLicense",
                    "name": "CHECKOUT_LICENSE"
                },
                {
                    "value": "CheckoutBorrowLicense",
                    "name": "CHECKOUT_BORROW_LICENSE"
                },
                {
                    "value": "CheckInLicense",
                    "name": "CHECK_IN_LICENSE"
                },
                {
                    "value": "ExtendConsumptionLicense",
                    "name": "EXTEND_CONSUMPTION_LICENSE"
                },
                {
                    "value": "ListPurchasedLicenses",
                    "name": "LIST_PURCHASED_LICENSES"
                 },
                {
                    "value": "CreateToken",
                    "name": "CREATE_TOKEN"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#AllowedOperationList": {
        "type": "list",
        "member": {
```

"target": "com.amazonaws.licensemanager#AllowedOperation"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 7
}
}
},
"com.amazonaws.licensemanager#Arn": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
}
},
"com.amazonaws.licensemanager#ArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
}
},
"com.amazonaws.licensemanager#AuthorizationException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "AuthorizationFailure",
"httpResponseCode": 403
},
"smithy.api#documentation": " The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n policy associated with this account. ",
"smithy.api#error": "client",
"smithy.api#httpError": 403
}
},
"com.amazonaws.licensemanager#AutomatedDiscoveryInformation":
{
"type": "structure",
"members": {

```
        "LastRunTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes automated discovery.</p>"
    }
},
"com.amazonaws.licensemanager#Boolean": {
    "type": "boolean"
},
"com.amazonaws.licensemanager#BorrowConfiguration": {
    "type": "structure",
    "members": {
        "AllowEarlyCheckIn": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Indicates whether early check-ins are allowed.</p>",
                 "smithy.api#required": {}
            }
        },
        "MaxTimeToLiveInMinutes": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
    }
},
"com.amazonaws.licensemanager#BoxBoolean": {
    "type": "boolean",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#BoxInteger": {
    "type": "integer",
    "traits": {
        "smithy.api#box": {}
    }
},
```

"com.amazonaws.licensemanager#BoxLong": {

"type": "long",
"traits": {
"smithy.api#box": {}
}
},
"com.amazonaws.licensemanager#CheckInLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks in the specified license. Check in a license when it is no longer in use. "
}
},
"com.amazonaws.licensemanager#CheckInLicenseRequest": {
"type": "structure",

"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",

"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
}
}
},
"com.amazonaws.licensemanager#CheckInLicenseResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                 "traits": {
                    "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
                    "smithy.api#required": {}
                }
            },
            "DigitalSignatureMethod": {
                "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
                "traits": {
                    "smithy.api#documentation": "<p>Digital signature method. The possible value is JSON Web
Signature (JWS) algorithm PS384.\n        For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>",
                    "smithy.api#required": {}
                }
```

```
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
 "<p>Node ID.</p>"
                }
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",

 "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>"
                }
            },
            "EntitlementsAllowed": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        },
        "SignedToken": {

        "target": "com.amazonaws.licensemanager#SignedToken",
            "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
            }
        },
        "IssuedAt": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
            }
        },
        "Expiration": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
            }
        },
        "CheckoutMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
                "smithy.api#documentation":
"<p>Information about constraints.</p>"
            }
        }
    }
  },
  "com.amazonaws.licensemanager#CheckoutLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
```

"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks out the specified license. "
}
},
"com.amazonaws.licensemanager#CheckoutLicenseRequest": {
"type": "structure",
"members": {
"ProductSKU":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. ",
"smithy.api#required": {}
}
},
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. ",
"smithy.api#required": {}
}
},
"KeyFingerprint": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Key fingerprint identifying the license. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Node ID. "
}
}
}
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
"type": "structure",
"members": {
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation":
" Allowed license entitlements. "
}
},
"SignedToken": {
"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",

"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the checkout license. "
}
}
}
},
"com.amazonaws.licensemanager#CheckoutType": {
"type": "string",
"traits": {
"smithy.api#enum": [
{

"value": "PROVISIONAL",
"name": "PROVISIONAL"
},
{
"value": "PERPETUAL",
"name": "PERPETUAL"
}
]
}
},
"com.amazonaws.licensemanager#ClientRequestToken":
{
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 36
}
}
},
"com.amazonaws.licensemanager#ClientToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#ConflictException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ConflictException",
"httpResponseCode": 409
},
"smithy.api#documentation": " There
was a conflict processing the request. Try your request again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 409
}
},

```
"com.amazonaws.licensemanager#ConsumedLicenseSummary": {
    "type": "structure",
    "members": {
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about license consumption.</p>"
     }
},
"com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
    }
},
"com.amazonaws.licensemanager#ConsumptionConfiguration": {
    "type": "structure",
    "members": {
        "RenewType": {
            "target": "com.amazonaws.licensemanager#RenewType",
            "traits": {
                "smithy.api#documentation": "<p>Renewal frequency.</p>"
            }
        },
        "ProvisionalConfiguration": {
            "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
            }
        },
        "BorrowConfiguration": {

            "target": "com.amazonaws.licensemanager#BorrowConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
            }
        }
```

```
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },

        {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of
license entitlements with specific Amazon Web Services accounts.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantRequest": {
        "type": "structure",
        "members": {

  "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
```

"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},

"Principals": {
"target": "com.amazonaws.licensemanager#PrincipalArnList",
"traits": {
"smithy.api#documentation": " The grant principals. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CreateGrantResponse":
{
"type": "structure",
"members": {

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            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersion": {
        "type": "operation",
        "input": {

"target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
```

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            {

              "target": "com.amazonaws.licensemanager#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant.</p>"
          }
        },
        "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
          "type": "structure",
          "members": {
            "ClientToken": {
              "target": "com.amazonaws.licensemanager#ClientToken",
              "traits": {
                "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                "smithy.api#required": {}
              }
            },
            "GrantArn": {
              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                 "smithy.api#required": {}
              }
            },
            "GrantName": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Grant name.</p>"
              }
            },
            "AllowedOperations": {
              "target": "com.amazonaws.licensemanager#AllowedOperationList",
              "traits": {
                "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
              }
            },
            "Status": {
              "target": "com.amazonaws.licensemanager#GrantStatus",
              "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
              }
            },
            "StatusReason": {
              "target": "com.amazonaws.licensemanager#StatusReasonMessage",
```

"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the grant. "
}
}
}
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant
status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New version of the grant. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

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        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a license.</p>"
    }
},
"com.amazonaws.licensemanager#CreateLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
```

"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Creates a license configuration. \n A license configuration is an abstraction of a customer license
agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a \n license must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension used to track the license inventory. ",
"smithy.api#required": {}
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {

"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances. "
}

```
            },
            "LicenseRules": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>License rules. The syntax is #name=value (for example,
#allowedTenancy=EC2-DedicatedHost). The available rules \n        vary by dimension, as follows.</p>\n
<ul>\n            <li>\n              <p>\n                <code>Cores</code> dimension: <code>allowedTenancy</code> |\n
          <code>licenseAffinityToHost</code> |\n              <code>maximumCores</code> |
<code>minimumCores</code>\n              </p>\n            </li>\n            <li>\n              <p>\n
<code>Instances</code> dimension: <code>allowedTenancy</code> | \n              <code>maximumCores</code>
 | <code>minimumCores</code> |\n              <code>maximumSockets</code> | <code>minimumSockets</code>
|\n              <code>maximumVcpus</code> | <code>minimumVcpus</code>\n              </p>\n            </li>\n
<li>\n              <p>\n                <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n
<code>licenseAffinityToHost</code> |\n              <code>maximumSockets</code> |
<code>minimumSockets</code>\n              </p>\n            </li>\n            <li>\n              <p>\n
<code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n
<code>honorVcpuOptimization</code> | \n              <code>maximumVcpus</code> |
<code>minimumVcpus</code>\n              </p>\n            </li>\n        </ul>\n        <p>The unit for
<code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n        values for
<code>allowedTenancy</code> are <code>EC2-Default</code>,
 <code>EC2-DedicatedHost</code>, and \n        <code>EC2-DedicatedInstance</code>. The possible values for
<code>honorVcpuOptimization</code> are \n        <code>True</code> and <code>False</code>.</p>"
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Tags to add to the license configuration.</p>"
                }
            },
            "DisassociateWhenNotFound": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
                }
            },
            "ProductInformationList": {
                "target": "com.amazonaws.licensemanager#ProductInformationList",
                "traits":
 {
                    "smithy.api#documentation": "<p>Product information.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse": {
        "type": "structure",
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"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a new license conversion task. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest":
{
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource you are converting the license type for. ",
"smithy.api#required": {}
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting from. \n For the structure of the source license, see Convert a license type using the AWS CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting to. For the structure of the destination license, see Convert a license type using the AWS CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the created license type conversion task. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a report generator. "
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target":
"com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types an be generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}

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            }
          },

        "ReportContext": {
            "target": "com.amazonaws.licensemanager#ReportContext",
            "traits": {
                "smithy.api#documentation": "<p>Defines the type of license configuration the report generator
tracks.</p>",
                "smithy.api#required": {}
            }
          },
          "ReportFrequency": {
            "target": "com.amazonaws.licensemanager#ReportFrequency",
            "traits": {
                "smithy.api#documentation": "<p>Frequency by which reports are generated.  Reports can be
generated daily, monthly, or weekly.</p>",
                "smithy.api#required": {}
            }
          },
          "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientRequestToken",
            "traits": {
                "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide
 to ensure the idempotency of the request.</p>",
                "smithy.api#required": {}
            }
          },
          "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the report generator.</p>"
            }
          },
          "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
                "smithy.api#documentation": "<p>Tags to add to the report generator.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {
          "LicenseManagerReportGeneratorArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits":
```

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{
                "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the new report generator.</p>"
            }
        }
    }
  },
  "com.amazonaws.licensemanager#CreateLicenseRequest": {
    "type": "structure",
    "members": {
      "LicenseName": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>License name.</p>",
          "smithy.api#required": {}
        }
      },
      "ProductName": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Product name.</p>",
          "smithy.api#required": {}
        }
      },
      "ProductSKU": {
        "target": "com.amazonaws.licensemanager#String",
         "traits": {
          "smithy.api#documentation": "<p>Product SKU.</p>",
          "smithy.api#required": {}
        }
      },
      "Issuer": {
        "target": "com.amazonaws.licensemanager#Issuer",
        "traits": {
          "smithy.api#documentation": "<p>License issuer.</p>",
          "smithy.api#required": {}
        }
      },
      "HomeRegion": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Home Region for the license.</p>",
          "smithy.api#required": {}
        }
      },
      "Validity": {
        "target": "com.amazonaws.licensemanager#DatetimeRange",
        "traits": {
```

"smithy.api#documentation":
" Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {

"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}

}
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
"type": "structure",

"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersion":
{
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"

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        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License name.</p>",
                "smithy.api#required": {}
            }
        },
        "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product name.</p>",
                "smithy.api#required": {}
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#Issuer",
            "traits": {
                "smithy.api#documentation": "<p>License issuer.</p>",
                "smithy.api#required": {}
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation":
```

" Home Region of the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}

```
            }
        },
        "SourceVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Current version of the license.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>License ARN.</p>"
            }
        },

   "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>New version of the license.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CreateToken": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateTokenResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
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{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a long-lived token. \n A refresh token is a JWT token used to get an access token. With an access token,\n you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n call License Manager to manage the specified license. "
}
},
"com.amazonaws.licensemanager#CreateTokenRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n JWT token. ",
"smithy.api#required": {}
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n License Manager does not check whether the roles are in use. "
}
},
"ExpirationInDays": {
"target": "com.amazonaws.licensemanager#Integer",

"traits": {
"smithy.api#documentation": " Token expiration, in days, counted from token creation. The default is 365 days. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller to be included in the JWT token. The data is mapped\n to the amr claim of the JWT token. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Idempotency token, valid for 10 minutes. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CreateTokenResponse": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. "
}
},
"TokenType": {
"target": "com.amazonaws.licensemanager#TokenType",
"traits": {
"smithy.api#documentation": " Token type. "
}
},
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token, encoded as a JWT token. "
}
}
}
},
"com.amazonaws.licensemanager#DateTime": {
"type": "timestamp"

```
    },
    "com.amazonaws.licensemanager#DatetimeRange": {
        "type": "structure",
        "members": {
            "Begin": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Start of the time range.</p>",
                    "smithy.api#required": {}
                }
            },
            "End": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>End of the time range.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC
format.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
```

```
  },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      },
      {
        "target": "com.amazonaws.licensemanager#ValidationException"
      }
    ],
    "traits": {
      "smithy.api#documentation": "<p>Deletes the specified grant.</p>"
    }
  },
  "com.amazonaws.licensemanager#DeleteGrantRequest": {
    "type": "structure",
    "members": {
      "GrantArn": {
        "target": "com.amazonaws.licensemanager#Arn",
        "traits": {
          "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
          "smithy.api#required": {}
        }
      },
      "StatusReason": {
        "target": "com.amazonaws.licensemanager#StatusReasonMessage",
        "traits": {

    "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
        }
      },
      "Version": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Current version of the grant.</p>",
          "smithy.api#required": {}
        }
      }
    }
  },
  "com.amazonaws.licensemanager#DeleteGrantResponse": {
    "type": "structure",
    "members": {
      "GrantArn": {
        "target": "com.amazonaws.licensemanager#Arn",
        "traits": {
          "smithy.api#documentation": "<p>Grant ARN.</p>"
        }
      },
      "Status": {
```

"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation":
" Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
}
},
"com.amazonaws.licensemanager#DeleteLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],

"traits": {
"smithy.api#documentation": " Deletes the specified license. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license configuration. \n You cannot delete a license configuration
that is in use. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the license configuration. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {

"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified report generator. \n This action deletes the report generator, which stops it from generating future reports.\n The action cannot be reversed. It has no effect on the previous reports from this generator. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to be deleted. ",
"smithy.api#required": {}
}
}
}
},

"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#DeleteLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#DeleteLicenseResponse": {
"type": "structure",
"members": {
"Status": {
"target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"DeletionDate": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date when the license is deleted. "
}

```
            }
        }
    },
    "com.amazonaws.licensemanager#DeleteToken": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
        },
        "errors": [
            {

      "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
        }

  },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>",
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                "smithy.api#required": {}
            }
        }
    }
  },
  "com.amazonaws.licensemanager#DeleteTokenResponse": {
    "type": "structure",
    "members": {}
  },
  "com.amazonaws.licensemanager#DigitalSignatureMethod": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "JWT_PS384",
                "name": "JWT_PS384"
            }
        ]
    }
  },
  "com.amazonaws.licensemanager#Entitlement": {
    "type": "structure",

"members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement name.</p>",
                "smithy.api#required": {}
            }
        },
        "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement resource. Use only if the unit is None.</p>"
            }
        },
        "MaxCount": {
            "target": "com.amazonaws.licensemanager#Long",
            "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
            }
        },
        "Overage": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",

  "traits": {
                "smithy.api#documentation": "<p>Indicates whether overages are allowed.</p>"
```

```
            }
          },
          "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementUnit",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement unit.</p>",
              "smithy.api#required": {}
            }
          },
          "AllowCheckIn": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>Indicates whether check-ins are allowed.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes a resource entitled for use with a license.</p>"
        }
      },
      "com.amazonaws.licensemanager#EntitlementData": {
        "type": "structure",
         "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement data name.</p>",
              "smithy.api#required": {}
            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement data value.</p>"
            }
          },
          "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement data unit.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Data associated
with an entitlement resource.</p>"
        }
```

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},
"com.amazonaws.licensemanager#EntitlementDataList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#EntitlementData"
    }
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "Count",
                "name": "COUNT"
            },
            {
                "value": "None",
                "name": "NONE"
            },
            {
                "value": "Seconds",
                "name": "SECONDS"
            },
            {
                "value": "Microseconds",
                "name": "MICROSECONDS"
            },
            {

"value": "Milliseconds",
                "name": "MILLISECONDS"
            },
            {
                "value": "Bytes",
                "name": "BYTES"
            },
            {
                "value": "Kilobytes",
                "name": "KILOBYTES"
            },
            {
                "value": "Megabytes",
                "name": "MEGABYTES"
            },
            {
                "value": "Gigabytes",
                "name": "GIGABYTES"
            },
```

```
            {
              "value": "Terabytes",
              "name": "TERABYTES"
            },
            {
              "value": "Bits",
              "name": "BITS"
            },
            {
              "value": "Kilobits",
              "name": "KILOBITS"
             },
            {
              "value": "Megabits",
              "name": "MEGABITS"
            },
            {
              "value": "Gigabits",
              "name": "GIGABITS"
            },
            {
              "value": "Terabits",
              "name": "TERABITS"
            },
            {
              "value": "Percent",
              "name": "PERCENT"
            },
            {
              "value": "Bytes/Second",
              "name": "BYTES_PER_SECOND"
            },
            {
              "value": "Kilobytes/Second",
              "name": "KILOBYTES_PER_SECOND"
            },
            {
              "value": "Megabytes/Second",
              "name": "MEGABYTES_PER_SECOND"

        },
            {
              "value": "Gigabytes/Second",
              "name": "GIGABYTES_PER_SECOND"
            },
            {
              "value": "Terabytes/Second",
              "name": "TERABYTES_PER_SECOND"
```

```
            },
            {
                "value": "Bits/Second",
                "name": "BITS_PER_SECOND"
            },
            {
                "value": "Kilobits/Second",
                "name": "KILOBITS_PER_SECOND"
            },
            {
                "value": "Megabits/Second",
                "name": "MEGABITS_PER_SECOND"
            },
            {
                "value": "Gigabits/Second",
                "name": "GIGABITS_PER_SECOND"
            },
            {
                "value": "Terabits/Second",

"name": "TERABITS_PER_SECOND"
            },
            {
                "value": "Count/Second",
                "name": "COUNT_PER_SECOND"
            }
        ]
    }
},
"com.amazonaws.licensemanager#EntitlementList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Entitlement"
    }
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
```

```
"com.amazonaws.licensemanager#EntitlementUnit": {

 "type": "string",
   "traits": {
      "smithy.api#enum": [
         {
            "value": "Count",
            "name": "COUNT"
         },
         {
            "value": "None",
            "name": "NONE"
         },
         {
            "value": "Seconds",
            "name": "SECONDS"
         },
         {
            "value": "Microseconds",
            "name": "MICROSECONDS"
         },
         {
            "value": "Milliseconds",
            "name": "MILLISECONDS"
         },
         {
            "value": "Bytes",
            "name": "BYTES"
         },
         {
            "value": "Kilobytes",
            "name": "KILOBYTES"

   },
         {
            "value": "Megabytes",
            "name": "MEGABYTES"
         },
         {
            "value": "Gigabytes",
            "name": "GIGABYTES"
         },
         {
            "value": "Terabytes",
            "name": "TERABYTES"
         },
         {
            "value": "Bits",
```

"name": "BITS"
},
{
"value": "Kilobits",
"name": "KILOBITS"
},
{
"value": "Megabits",
"name": "MEGABITS"
},
{
"value": "Gigabits",
"name": "GIGABITS"
},
{
"value": "Terabits",
"name": "TERABITS"
},
{
"value": "Percent",
"name": "PERCENT"
},
{
"value": "Bytes/Second",
"name": "BYTES_PER_SECOND"
},
{
"value": "Kilobytes/Second",
"name": "KILOBYTES_PER_SECOND"
},
{
"value": "Megabytes/Second",
"name": "MEGABYTES_PER_SECOND"
},
{
"value": "Gigabytes/Second",
"name": "GIGABYTES_PER_SECOND"
},
{
"value": "Terabytes/Second",
"name": "TERABYTES_PER_SECOND"
},
{

"value": "Bits/Second",
"name": "BITS_PER_SECOND"
},
{

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                "value": "Kilobits/Second",
                "name": "KILOBITS_PER_SECOND"
            },
            {
                "value": "Megabits/Second",
                "name": "MEGABITS_PER_SECOND"
            },
            {
                "value": "Gigabits/Second",
                "name": "GIGABITS_PER_SECOND"
            },
            {
                "value": "Terabits/Second",
                "name": "TERABITS_PER_SECOND"
            },
            {
                "value": "Count/Second",
                "name": "COUNT_PER_SECOND"
            }
        ]
    }
},
"com.amazonaws.licensemanager#EntitlementUsage": {
    "type": "structure",

"members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                "smithy.api#required": {}
            }
        },
        "ConsumedValue": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxCount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
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            "traits": {
              "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
        }
      },
      "com.amazonaws.licensemanager#EntitlementUsageList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
      },
      "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
        },
        "errors": [
          {

        "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
```

"traits": {
"smithy.api#documentation": " Extends the expiration date for license consumption. "
}
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",
"smithy.api#required": {}
}
},
"DryRun": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#documentation": " Checks whether you have the required permissions for the action, without actually making the request. Provides an error response if you do not have the required permissions. "
}
}
}
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
"type": "structure",

"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license consumption expires. "
}
}
}
},
"com.amazonaws.licensemanager#FailedDependencyException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
},
"ErrorCode": {

"target": "com.amazonaws.licensemanager#String"
}
},

"traits": {
"aws.protocols#awsQueryError": {
"code": "FailedDependency",
"httpResponseCode": 424
},
"smithy.api#documentation": " A dependency required to run the API is missing. ",
"smithy.api#error": "client",
"smithy.api#httpError": 424
}
},
"com.amazonaws.licensemanager#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#FilterName",
"traits": {
"smithy.api#documentation": " Name of the filter. Filter names are case-sensitive. "
}
},
"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " Filter values. Filter values are case-sensitive. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter name and value pair that is used to return more specific results from a\n describe operation. Filters can be used to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FilterLimitExceeded",
"httpResponseCode": 400

```
            },
            "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
            "smithy.api#error":
"client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#FilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Filter"
        }
    },
    "com.amazonaws.licensemanager#FilterName": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#FilterValue": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#FilterValues": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#FilterValue",
            "traits": {
                "smithy.api#xmlName": "item"
            }
        }
    },
    "com.amazonaws.licensemanager#Filters": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Filter",
            "traits": {
                "smithy.api#xmlName":
"item"
            }
        }
    },
    "com.amazonaws.licensemanager#GetAccessToken": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
        },
        "errors": [
            {
```

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"

}
],
"traits": {
"smithy.api#documentation": " Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access tokens\n are valid for one hour. "
}
},
"com.amazonaws.licensemanager#GetAccessTokenRequest": {
"type": "structure",
"members": {
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token, encoded as a JWT token. ",
"smithy.api#required": {}
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Token properties to validate against those present in the JWT token. "
}

}
}
},
"com.amazonaws.licensemanager#GetAccessTokenResponse": {
"type": "structure",
"members": {
"AccessToken": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Temporary access token. "

```
            }
        }
    }
},
"com.amazonaws.licensemanager#GetGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
```

```
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
                "smithy.api#documentation": "<p>Grant details.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",

    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
```

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license
configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
```

"com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationId":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Unique ID for the license configuration. "
}
},
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation":
" Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension for which the licenses are counted. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of available licenses. "
}
},
"LicenseCountHardLimit": {

"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Sets the number of available licenses as a hard limit. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses assigned to resources. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License configuration status. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the
owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList":
{
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "

```
            }
        },
        "AutomatedDiscoveryInformation": {
            "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
            "traits": {
                "smithy.api#documentation": "<p>Automated discovery information.</p>"
            }
        },
        "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
    "type":
 "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets
 information about the specified license type conversion task.</p>"
    }
},
```

"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information on. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted to. "

}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}

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            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
                }
            },
            "StartTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
                }
            },
            "LicenseConversionTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                 "traits": {
                    "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
                }
            },
            "EndTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
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            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation":
"<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {
            "ReportGenerator": {
                "target": "com.amazonaws.licensemanager#ReportGenerator",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic
reports about your license configurations.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
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```
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetLicenseResponse": {
    "type": "structure",
    "members": {
        "License": {
            "target":
"com.amazonaws.licensemanager#License",
            "traits": {
                "smithy.api#documentation": "<p>License details.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetLicenseUsage": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
         },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageResponse":
{
        "type": "structure",
        "members": {
            "LicenseUsage": {
                "target": "com.amazonaws.licensemanager#LicenseUsage",
                "traits": {
                    "smithy.api#documentation": "<p>License usage details.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
```

{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets the License Manager settings for the current Region. "
}
},
"com.amazonaws.licensemanager#GetServiceSettingsRequest": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Regional S3 bucket path for storing reports, license trail event data, discovery data,\n and so on. "
}

},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " SNS topic configured to receive notifications from License Manager. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Indicates whether Organizations is integrated with License Manager for\n cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether cross-account discovery is enabled. "
}

```
    },
            "LicenseManagerResourceShareArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
Manager management account \n        provides member accounts with access to this share.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#Grant": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {

                   "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ParentArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Parent ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>License ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "GranteePrincipalArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The grantee principal ARN.</p>",
```

"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"Version": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. ",
"smithy.api#required": {}
}
},
"GrantedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Granted operations. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes a grant. "
}
},
"com.amazonaws.licensemanager#GrantList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Grant"
}

```
},
"com.amazonaws.licensemanager#GrantStatus": {
    "type": "string",

  "traits": {
        "smithy.api#enum": [
            {
                "value": "PENDING_WORKFLOW",
                "name": "PENDING_WORKFLOW"
            },
            {
                "value": "PENDING_ACCEPT",
                "name": "PENDING_ACCEPT"
            },
            {
                "value": "REJECTED",
                "name": "REJECTED"
            },
            {
                "value": "ACTIVE",
                "name": "ACTIVE"
            },
            {
                "value": "FAILED_WORKFLOW",
                "name": "FAILED_WORKFLOW"
            },
            {
                "value": "DELETED",
                "name": "DELETED"
            },
            {
                "value": "PENDING_DELETE",
                "name": "PENDING_DELETE"
             },
            {
                "value": "DISABLED",
                "name": "DISABLED"
            },
            {
                "value": "WORKFLOW_COMPLETED",
                "name": "WORKFLOW_COMPLETED"
            }
        ]
    }
},
"com.amazonaws.licensemanager#GrantedLicense": {
    "type": "structure",
    "members": {
```

"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. "
}

},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " Granted license issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the granted license. "

}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " Granted license status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the granted license is valid, in

ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Granted license beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Granted license metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Creation time of the granted license. "

}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Version of the granted license. "
}
},
"ReceivedMetadata": {
"target": "com.amazonaws.licensemanager#ReceivedMetadata",
"traits": {
"smithy.api#documentation": " Granted license received metadata. "
}
}
},
"traits": {

"smithy.api#documentation": " Describes a license that is granted to a grantee. "
}
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#GrantedLicense"
}
},
"com.amazonaws.licensemanager#ISO8601DateTime":
{
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
}
},
"com.amazonaws.licensemanager#Integer": {
"type": "integer",
"traits": {
"smithy.api#box": {}
}
},
"com.amazonaws.licensemanager#InvalidParameterValueException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidParameterValueProvided",

"httpResponseCode": 400
},
"smithy.api#documentation": " One or more parameter values are not valid. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#InvalidResourceStateException": {
"type": "structure",
"members": {

"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidResourceState",
"httpResponseCode": 400
},
"smithy.api#documentation": " License Manager cannot allocate a license to a resource because of its state. \n For example, you cannot allocate a license to an instance in the process of shutting\n down. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#InventoryFilter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the filter. ",
"smithy.api#required": {}
}
},
"Condition": {
"target": "com.amazonaws.licensemanager#InventoryFilterCondition",
"traits": {
"smithy.api#documentation": " Condition of the filter. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Value of the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " An inventory filter. "
}
},
"com.amazonaws.licensemanager#InventoryFilterCondition": {
"type": "string",
"traits": {

"smithy.api#enum": [
{
"value": "EQUALS",
"name": "EQUALS"
},
{
"value": "NOT_EQUALS",
"name": "NOT_EQUALS"
},
{
"value": "BEGINS_WITH",
"name": "BEGINS_WITH"
},
{
"value": "CONTAINS",
"name": "CONTAINS"
}
]
}
},
"com.amazonaws.licensemanager#InventoryFilterList":
{
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#InventoryFilter"
}
},
"com.amazonaws.licensemanager#Issuer": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. ",
"smithy.api#required": {}
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
}
},
"traits": {

"smithy.api#documentation": " Details about the issuer of a license. "
}
},
"com.amazonaws.licensemanager#IssuerDetails": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. "
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer key fingerprint. "
}
}
},
"traits": {
"smithy.api#documentation": " Details associated with the issuer of a license. "
}
},
"com.amazonaws.licensemanager#License": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. "
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " License issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "

}
},

"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " License metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License creation time. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits":
{
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#documentation": " Software license that is managed in License Manager. "
}
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
"type": "structure",
"members": {
"LicenseConfigurationId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Unique ID of the license configuration. "
}
},
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}

},
"Name": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension to use to track the license inventory. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Number of available licenses as a hard limit. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "

}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed. "
}

```
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Status of the license configuration.</p>"
                }
            },
            "OwnerAccountId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Account ID of the license configuration's owner.</p>"
                }
            },
            "ConsumedLicenseSummaryList": {
                "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",

        "traits": {
                    "smithy.api#documentation": "<p>Summaries for licenses consumed by various resources.</p>"
                }
            },
            "ManagedResourceSummaryList": {
                "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>Summaries for managed resources.</p>"
                }
            },
            "ProductInformationList": {
                "target": "com.amazonaws.licensemanager#ProductInformationList",
                "traits": {
                    "smithy.api#documentation": "<p>Product information.</p>"
                }
            },
            "AutomatedDiscoveryInformation": {
                "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
                "traits": {
                    "smithy.api#documentation": "<p>Automated
 discovery information.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A license configuration is an abstraction of a customer license
agreement that can be\n        consumed and enforced by License Manager. Components include specifications for
the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n
Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n        must be associated with a
host), and the number of licenses purchased and used.</p>"
        }
    },
```

"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name
(ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource
consuming licenses. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was associated with the
resource. "
}
},
"AmiAssociationScope":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-
account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an association with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
}

```
    },
    "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "AVAILABLE",
                    "name": "AVAILABLE"
                },
                {
                    "value": "DISABLED",
                    "name": "DISABLED"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceStatus": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {

"smithy.api#documentation": "<p>Status of the resource.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
                }
            },
            "AssociationTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time when the license configuration was initially associated with
```

the resource. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}

},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
}
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfiguration"
}
},
"com.amazonaws.licensemanager#LicenseConversionContext": {
"type": "structure",
"members": {
"UsageOperation": {
"target": "com.amazonaws.licensemanager#UsageOperation",
"traits": {
"smithy.api#documentation": " The Usage operation value that corresponds to the license type you are converting your resource from. For more information about which platforms correspond to which usage operation values see Sample data: usage operation by platform\n \n "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTask": {
"type": "structure",
"members": {

"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the license type conversion task. "
}
},
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource associated with the license type\n conversion task. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted to. "
}
},

"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " The status of the conversion task. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was started at. "
}
},
"LicenseConversionTime": {

"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " The time the usage operation value of the resource was changed. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was completed. "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTaskId": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
}
},
"com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
"type":
"string",
"traits": {
"smithy.api#enum": [
{
"value": "IN_PROGRESS",
"name": "IN_PROGRESS"
},
{
"value": "SUCCEEDED",
"name": "SUCCEEDED"
},
{
"value": "FAILED",
"name": "FAILED"
}
]
}
},
"com.amazonaws.licensemanager#LicenseConversionTasks": {

```
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#LicenseConversionTask"
    }
},
"com.amazonaws.licensemanager#LicenseCountingType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "vCPU",
                "name": "VCPU"

            },
            {
                "value": "Instance",
                "name": "INSTANCE"
            },
            {
                "value": "Core",
                "name": "CORE"
            },
            {
                "value": "Socket",
                "name": "SOCKET"
            }
        ]
    }
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "PENDING_DELETE",
                "name": "PENDING_DELETE"
            },
            {
                "value": "DELETED",
                "name": "DELETED"
            }
        ]
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#License"
```

```
        }
    },
    "com.amazonaws.licensemanager#LicenseOperationFailure": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type.</p>"
                }
            },
            "ErrorMessage": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Error message.</p>"

        }
            },
            "FailureTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Failure time.</p>"
                }
            },
            "OperationName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the operation.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the
resource.</p>"
                }
            },
            "OperationRequestedBy": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

"smithy.api#documentation": " The requester is \"License Manager Automated Discovery\". "
}
},
"MetadataList": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Reserved. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the failure of a license operation. "
}
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailure"
}
},
"com.amazonaws.licensemanager#LicenseSpecification": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseSpecification"
}

```
    },
    "com.amazonaws.licensemanager#LicenseStatus":
{
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "AVAILABLE",
                    "name": "AVAILABLE"
                },
                {
                    "value": "PENDING_AVAILABLE",
                    "name": "PENDING_AVAILABLE"
                },
                {
                    "value": "DEACTIVATED",
                    "name": "DEACTIVATED"
                },
                {
                    "value": "SUSPENDED",
                    "name": "SUSPENDED"
                },
                {
                    "value": "EXPIRED",
                    "name": "EXPIRED"
                },
                {
                    "value": "PENDING_DELETE",
                    "name": "PENDING_DELETE"
                },
                {

                 "value": "DELETED",
                    "name": "DELETED"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#LicenseUsage": {
        "type": "structure",
        "members": {
            "EntitlementUsages": {
                "target": "com.amazonaws.licensemanager#EntitlementUsageList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlement usages.</p>"
                }
            }
        },
```

"traits": {
"smithy.api#documentation": " Describes the entitlement usage associated with a license. "
}
},
"com.amazonaws.licensemanager#LicenseUsageException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {

"aws.protocols#awsQueryError": {
"code": "LicenseUsageFailure",
"httpResponseCode": 412
},
"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{

"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the resource associations for the specified license configuration. \n Resource associations need not consume licenses from a license configuration. \n For example, an AMI or a stopped instance might not consume a license (depending on \n the license rules). "
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationAssociations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license configuration. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {
"target":
"com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants distributed for the specified license. "
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranteePrincipalARN</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configuration operations that failed. "
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name of the license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "

```
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse": {
        "type": "structure",
        "members": {
          "LicenseOperationFailureList": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
            "traits": {
              "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListLicenseConfigurations":
  {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
```

```
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the license configurations for your account.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
          "LicenseConfigurationArns": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
           },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "Filters": {
            "target": "com.amazonaws.licensemanager#Filters",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n                Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n                Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n
                <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement
is used. \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n
</li>\n            <li>\n                <p>\n                <code>usagelimitExceeded</code> - A Boolean value that indicates
whether the available licenses have been exceeded. \n                Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
            }
          }
        }
      },
```

```
    "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurations": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurations",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configurations.</p>"

                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasks": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target":
"com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
        }
    },
```

"com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
"type": "structure",
"members": {
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " \n Filters to scope the results. Valid filters are <code>ResourceArns</code> and <code>Status</code>.\n "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
"type": "structure",
"members": {
"LicenseConversionTasks": {
"target": "com.amazonaws.licensemanager#LicenseConversionTasks",
"traits": {
"smithy.api#documentation": " Information about the license configuration tasks for your account. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the report generators for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest": {
"type":
"structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported:
\n \n \n \n <code>LicenseConfigurationArn</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to
return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
"type": "structure",
"members": {
"ReportGenerators": {
"target": "com.amazonaws.licensemanager#ReportGeneratorList",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic reports about your license
configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
"type": "operation",
"input":
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Describes the
 license configurations for the specified resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a resource that has an
associated license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",

             "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
        "type": "structure",
        "members": {
            "LicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
                }
            },
```

```
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersions": {
         "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation":
"<p>Lists all versions of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
```

"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum
number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#LicenseList",
"traits": {
"smithy.api#documentation": " License details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenses": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicensesRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicensesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{

"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses for your account. "
}
},
"com.amazonaws.licensemanager#ListLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>Status</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}

```
        }
    },
    "com.amazonaws.licensemanager#ListLicensesResponse": {
        "type": "structure",
        "members": {
            "Licenses": {

  "target": "com.amazonaws.licensemanager#LicenseList",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrants": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },

{
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists grants that are received but not accepted.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
        "type": "structure",

    "members": {
            "GrantArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>ProductSKU</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                <code>LicenseIssuerName</code>\n                </p>\n
</li>\n            <li>\n                <p>\n                <code>LicenseArn</code>\n                </p>\n            </li>\n
<li>\n                <p>\n
  <code>GrantStatus</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>GranterAccountId</code>\n                </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
        "type": "structure",
        "members": {
            "Grants": {
```

"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Received grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"

},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists received licenses. "

```
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
        "type": "structure",

    "members": {
            "LicenseArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>ProductSKU</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                <code>Status</code>\n                </p>\n            </li>\n
<li>\n                <p>\n                <code>Fingerprint</code>\n                </p>\n            </li>\n            <li>\n
<p>\n                <code>IssuerName</code>\n
            </p>\n            </li>\n            <li>\n                <p>\n                <code>Beneficiary</code>\n                </p>\n
        </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
        "type": "structure",
        "members": {
            "Licenses": {

  "target": "com.amazonaws.licensemanager#GrantedLicenseList",
                "traits": {
                    "smithy.api#documentation": "<p>Received license details.</p>"
                }
            },
```

```
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventory": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"

},
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FailedDependencyException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryRequest": {

        "type": "structure",
        "members": {
```

"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#InventoryFilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>application_name</code> - The name of the application. \n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n \n \n \n <code>license_included</code> - The type of license included. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n Possible values are <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n \n <code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n \n \n \n <code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account). \n \n "
}
}
}
},
"com.amazonaws.licensemanager#ListResourceInventoryResponse": {
"type": "structure",
"members": {
"ResourceInventoryList": {
"target": "com.amazonaws.licensemanager#ResourceInventoryList",
"traits": {
"smithy.api#documentation": " Information about the resources. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",

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                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the tags for the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required":
 {}
                }
            }
        }
```

```
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the tags.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
            "TokenIds": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
```

"smithy.api#documentation": " Token IDs. "
}
},
"Filters": {
"target":
"com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filter is supported: \n
\n \n \n <code>LicenseArns</code>\n \n \n
"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListTokensResponse":
{
"type": "structure",
"members": {
"Tokens": {
"target": "com.amazonaws.licensemanager#TokenList",
"traits": {
"smithy.api#documentation": " Received token details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"

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        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying license\n        consumption details by resource
 at a selected point in time. Use this action to audit the\n        current license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
```

"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>resourceArn</code> - The ARN of the license configuration resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceAccount</code> - The ID of the account that owns the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationUsageList": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#Location": {
"type": "string"
},
"com.amazonaws.licensemanager#Long": {
"type": "long",
"traits": {

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        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummary": {
    "type": "structure",
    "members": {
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
            }
        },
        "AssociationCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {
    "type": "integer",
    "traits": {
        "smithy.api#box": {},
        "smithy.api#range": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
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            }
        }
    },
    "com.amazonaws.licensemanager#Message": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#Metadata": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The key name.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes key/value pairs.</p>"
        }

    },
    "com.amazonaws.licensemanager#MetadataList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Metadata"
        }
    },
    "com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>There are no entitlements found for this license, or the entitlement
maximum count is reached.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#OrganizationConfiguration": {
```

"type": "structure",
"members": {
"EnableIntegration": {
"target": "com.amazonaws.licensemanager#Boolean",

"traits": {
"smithy.api#documentation": " Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when

the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n
Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n
Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n
<code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n \n ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information for a license configuration. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
"type": "structure",
"members": {
"ProductInformationFilterName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Filter name. ",
"smithy.api#required": {}
}
},

"ProductInformationFilterValue": {
"target":
"com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " Filter value. "
}
},
"ProductInformationFilterComparator": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Logical operator. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information filters. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ProductInformationFilter"
}
},
"com.amazonaws.licensemanager#ProductInformationList": {
"type": "list",

"member": {
"target": "com.amazonaws.licensemanager#ProductInformation"
}
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
"type": "structure",
"members": {
"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the provisional configuration, in minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"com.amazonaws.licensemanager#RateLimitExceededException": {

"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"

}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "RateLimitExceeded",
"httpResponseCode": 429
},
"smithy.api#documentation": " Too many requests have been submitted. Try again after a brief wait. ",
"smithy.api#error": "client",
"smithy.api#httpError": 429
}
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
"type": "structure",
"members": {
"ReceivedStatus": {
"target": "com.amazonaws.licensemanager#ReceivedStatus",
"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {

"smithy.api#documentation": " Received status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations. "
}
}
},
"traits": {
"smithy.api#documentation": " Metadata associated with received licenses and grants. "
}
},
"com.amazonaws.licensemanager#ReceivedStatus": {
"type": "string",
"traits": {

"smithy.api#enum": [
{
"value": "PENDING_WORKFLOW",
"name": "PENDING_WORKFLOW"
},
{
"value": "PENDING_ACCEPT",
"name": "PENDING_ACCEPT"
},
{
"value": "REJECTED",
"name": "REJECTED"
},
{
"value": "ACTIVE",
"name": "ACTIVE"
},
{
"value": "FAILED_WORKFLOW",
"name": "FAILED_WORKFLOW"
},
{
"value": "DELETED",
"name": "DELETED"
},
{
"value": "DISABLED",
"name": "DISABLED"
},
{
"value": "WORKFLOW_COMPLETED",
"name": "WORKFLOW_COMPLETED"
}
]
}
},
"com.amazonaws.licensemanager#RedirectException": {
"type": "structure",
"members": {

"Location": {
"target": "com.amazonaws.licensemanager#Location",
"traits": {
"smithy.api#httpHeader": "Location"
}
},
"Message": {
"target": "com.amazonaws.licensemanager#Message"

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            }
        },
        "traits": {
            "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 308
        }
    },
    "com.amazonaws.licensemanager#RejectGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#RejectGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#RejectGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest":
{
        "type": "structure",
        "members": {
            "GrantArn": {
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            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanager#RejectGrantResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"

    }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#RenewType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "None",
                "name": "NONE"
            },
            {
                "value": "Weekly",
                "name": "WEEKLY"
            },
            {
                "value": "Monthly",
                "name": "MONTHLY"
            }
```

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            ]
          }
        },
        "com.amazonaws.licensemanager#ReportContext": {
          "type": "structure",
          "members": {

    "licenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                  "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration that this generator reports on.</p>",
                  "smithy.api#required": {}
                }
              }
          },
          "traits": {
            "smithy.api#documentation": "<p>Details of the license configuration that this generator reports on.</p>"
          }
        },
        "com.amazonaws.licensemanager#ReportFrequency": {
          "type": "structure",
          "members": {
            "value": {
              "target": "com.amazonaws.licensemanager#Integer",
              "traits": {
                "smithy.api#documentation": "<p>Number of times within the frequency period that a report is generated.  \n        The only supported value is <code>1</code>.</p>"

              }
              },
              "period": {
              "target": "com.amazonaws.licensemanager#ReportFrequencyType",
              "traits": {
                "smithy.api#documentation": "<p>Time period between each report. The period can be daily, weekly, or monthly.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
          }
        },
        "com.amazonaws.licensemanager#ReportFrequencyType": {
          "type": "string",
          "traits": {
            "smithy.api#enum": [
              {
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"value": "DAY",
"name": "DAY"
},
{
"value": "WEEK",
"name": "WEEK"
},
{
"value": "MONTH",

"name": "MONTH"
}
]
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the report generator. "
}
},
"ReportType": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports that are generated. "
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " License configuration type for this generator. "
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. "
}
},

"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}
},
"LastRunFailureReason": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Failure message for the last report generation attempt. "
}
},
"LastReportGenerationTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the last report was generated at. "
}
},
"ReportCreatorAccount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Web Services account ID used to create the report generator. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the report was created. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",

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            "traits": {
                "smithy.api#documentation": "<p>Tags associated with the report generator.</p>"
            }
        }
    },

"traits": {
        "smithy.api#documentation": "<p>Describe the details of a report generator.</p>"
    }
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportGenerator"
    }
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#ReportType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "LicenseConfigurationSummaryReport",
                "name": "LICENSE_CONFIGURATION_SUMMARY_REPORT"
            },
            {
                "value": "LicenseConfigurationUsageReport",
                 "name": "LICENSE_CONFIGURATION_USAGE_REPORT"
            }
        ]
    }
},
"com.amazonaws.licensemanager#ReportTypeList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportType"
    }
},
"com.amazonaws.licensemanager#ResourceInventory": {
    "type": "structure",
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        "members": {
          "ResourceId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>ID of the resource.</p>"
            }
          },
          "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
              "smithy.api#documentation": "<p>Type of resource.</p>"
            }
          },
           "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
          },
          "Platform": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Platform of the resource.</p>"
            }
          },
          "PlatformVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
            }
          },
          "ResourceOwningAccountId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation":
"<p>ID of the account that owns the resource.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about a resource.</p>"
        }
      },
      "com.amazonaws.licensemanager#ResourceInventoryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#ResourceInventory"
        }
```

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    },
    "com.amazonaws.licensemanager#ResourceLimitExceededException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ResourceLimitExceeded",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>Your resource limits have
been exceeded.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#ResourceNotFoundException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidResource.NotFound",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>The resource cannot be found.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#ResourceType": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "EC2_INSTANCE",
                     "name": "EC2_INSTANCE"
                },
                {
                    "value": "EC2_HOST",
                    "name": "EC2_HOST"
                },
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                {
                    "value": "EC2_AMI",
                    "name": "EC2_AMI"
                },
                {
                    "value": "RDS",
                    "name": "RDS"
                },
                {
                    "value": "SYSTEMS_MANAGER_MANAGED_INSTANCE",
                    "name": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#S3Location": {
        "type": "structure",
        "members": {
            "bucket": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the S3 bucket
 reports are published to.</p>"
                }
            },
            "keyPrefix": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Prefix of the S3 bucket reports are published to.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
        }
    },
    "com.amazonaws.licensemanager#ServerInternalException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InternalError",
                "httpResponseCode": 500
```

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            },
            "smithy.api#documentation":
"<p>The server experienced an internal error. Try again.</p>",
            "smithy.api#error": "server",
            "smithy.api#httpError": 500
        }
    },
    "com.amazonaws.licensemanager#SignedToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 4096
            }
        }
    },
    "com.amazonaws.licensemanager#StatusReasonMessage": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 400
            },
            "smithy.api#pattern": "^[\\s\\S]+$"
        }
    },
    "com.amazonaws.licensemanager#String": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"

      }
    },
    "com.amazonaws.licensemanager#Tag": {
        "type": "structure",
        "members": {
            "Key": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag key.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag value.</p>"
```

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            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#String"
        }
      },
      "com.amazonaws.licensemanager#TagList":
  {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#Tag"
        }
      },
      "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },

    {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
```

```
        }
    },
    "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>One or more tags.</p>",
                    "smithy.api#required":
 {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
            "TokenType": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>"
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
```

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            },
            "ExpirationTime": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Token expiration time, in ISO8601-UTC format.</p>"
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Data specified by the caller.</p>"
                }
            },
            "RoleArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the roles included in the
token.</p>"
                }
             },
            "Status": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token status. The possible values are
<code>AVAILABLE</code> and <code>DELETED</code>.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes a token.</p>"
        }
    },
    "com.amazonaws.licensemanager#TokenList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#TokenData"
        }
    },
    "com.amazonaws.licensemanager#TokenString": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 4096
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
```

"com.amazonaws.licensemanager#TokenType":
{
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "REFRESH_TOKEN",
"name": "REFRESH_TOKEN"
}
]
}
},
"com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The digital signature method is unsupported. Try your request again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#UntagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UntagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{

"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Removes the specified tags from the specified license configuration. "
}
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",
"traits": {
"smithy.api#documentation": " Keys identifying the tags to remove. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"

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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseConfigurationStatus": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
                "traits": {
                    "smithy.api#documentation": "<p>New status of the license configuration.</p>"
                }
            },
            "LicenseRules": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>New license rule. The only rule that you can add after you create a
license\n        configuration is licenseAffinityToHost.</p>"
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>New number of licenses managed by the license
configuration.</p>"
                }
```

```
            },
            "LicenseCountHardLimit": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>New hard limit of the number of available licenses.</p>"
                }

        },
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>New name of the license configuration.</p>"
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>New description of the license configuration.</p>"
                }
            },
            "ProductInformationList": {
                "target": "com.amazonaws.licensemanager#ProductInformationList",
                "traits": {
                    "smithy.api#documentation": "<p>New product information.</p>"
                }
            },
            "DisassociateWhenNotFound": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
```

{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates a report generator. \n After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated. "

}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to update. ",
"smithy.api#required": {}
}
},
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}

```
                }
            },
            "Type": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports to generate. The following report types are supported:</p>\n <ul>\n <li>\n <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p>\n </li>\n <li>\n <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n </li>\n </ul>",
                    "smithy.api#required": {}
                }
            },
            "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
                    "smithy.api#documentation": "<p>The report context.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportFrequency": {
                "target": "com.amazonaws.licensemanager#ReportFrequency",
                "traits": {
                    "smithy.api#documentation": "<p>Frequency by which reports are generated.</p>",
                    "smithy.api#required": {}
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientRequestToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the report generator.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {}
    },
```

"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#InvalidResourceStateException"

},
{
"target": "com.amazonaws.licensemanager#LicenseUsageException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Adds or removes the specified license configurations for the specified Amazon Web Services resource. \n You can update the license specifications of AMIs, instances, and hosts.\n You cannot update the license specifications for launch templates and CloudFormation templates, \n as they send license configurations to the operation that creates the resource. "
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon Web Services resource. ",
"smithy.api#required": {}

```
            }
        },
        "AddLicenseSpecifications": {
            "target": "com.amazonaws.licensemanager#LicenseSpecifications",
            "traits": {
                "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
            }
        },
        "RemoveLicenseSpecifications": {
            "target": "com.amazonaws.licensemanager#LicenseSpecifications",
            "traits": {
                "smithy.api#documentation": "<p>ARNs of the license configurations to remove.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {}
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
    }
```

```
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where
the License Manager information is stored.</p>"
                }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon
 Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Enables integration with Organizations for cross-account
discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Activates cross-account discovery.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#UsageOperation": {
        "type":
 "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            }
        }
    },
    "com.amazonaws.licensemanager#ValidationException": {
```

```
            "type": "structure",
            "members": {
                "Message": {
                    "target": "com.amazonaws.licensemanager#Message"
                }
            },
            "traits": {
                "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
                "smithy.api#error": "client",
                "smithy.api#httpError": 400
            }
        }
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
```

```
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string
```

```
// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

//
Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err
!= nil {
 return err
}
```

```
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return
 nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
```

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string
```

```
 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
```

```
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
 err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
```

```
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
```

```
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

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```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
```

```
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if
 err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
```

```
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}
```

1.4236 memberlist 0.5.0

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1.4238 contrib-propagators-ot 1.13.0

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1.4239 apm-module-apmhttp 1.11.0

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1.4240 collector-featuregate 1.3.0

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1.4241 kubernetes-apimachinery 0.27.5

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1.4249 kubernetes-client 0.27.5

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1.4251 x-exp 0.0.0-20240119083558-1b970713d09a

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1.4252 contrib-propagators-b3 1.13.0

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1.4253 aws-sdk-go-v2-internal-ini 1.3.10

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```
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package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
```

```
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
 nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
```

```
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
```

```
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string
```

```
 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err
 = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
```

```
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
```

```
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
```

```
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil
 {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
```

```
    - name: Get Diff
      run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
    - name: Get Target Files
      run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
       uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer
```

```
 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity *types.DatetimeRange

 //
 Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
```

```
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return
```

```
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
```

```
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
```

```
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
```

```
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
  return err
```

```
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}
```

AWS SDK for Go
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{
  "smithy": "1.0",
  "metadata": {
    "suppressions": [
      {
        "id": "HttpMethodSemantics",
        "namespace": "*"
      },
      {
        "id": "HttpResponseCodeSemantics",
        "namespace": "*"
      },
      {
        "id": "PaginatedTrait",
        "namespace": "*"
      },
      {
        "id": "HttpHeaderTrait",
        "namespace": "*"
      },
      {
        "id": "HttpUriConflict",
        "namespace": "*"
      },
      {
        "id": "Service",
        "namespace": "*"
      }
    ]
  },
  "shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
      "type": "service",
      "version": "2018-08-01",
      "operations": [
        {
          "target": "com.amazonaws.licensemanager#AcceptGrant"
        },

{
          "target": "com.amazonaws.licensemanager#CheckInLicense"
        },
        {
          "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
        },

{
"target": "com.amazonaws.licensemanager#CheckoutLicense"
},
{
"target": "com.amazonaws.licensemanager#CreateGrant"
},
{
"target": "com.amazonaws.licensemanager#CreateGrantVersion"
},
{
"target": "com.amazonaws.licensemanager#CreateLicense"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseVersion"
},
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"target": "com.amazonaws.licensemanager#CreateToken"
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"target": "com.amazonaws.licensemanager#DeleteGrant"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicense"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#DeleteToken"
},
{
"target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

},
{
"target": "com.amazonaws.licensemanager#GetAccessToken"

},
{
"target": "com.amazonaws.licensemanager#GetGrant"
},
{
"target": "com.amazonaws.licensemanager#GetLicense"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseUsage"
},
{
"target": "com.amazonaws.licensemanager#GetServiceSettings"
},
{
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#ListDistributedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
"target": "com.amazonaws.licensemanager#ListLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

"target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListResourceInventory"
},
{
"target": "com.amazonaws.licensemanager#ListTagsForResource"
},
{
"target": "com.amazonaws.licensemanager#ListTokens"
},
{
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#RejectGrant"
},
{
"target": "com.amazonaws.licensemanager#TagResource"
},
{
"target": "com.amazonaws.licensemanager#UntagResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateServiceSettings"
}
],
"traits": {
"aws.api#service": {
"sdkId": "License Manager",
"arnNamespace": "license-manager",
"cloudFormationName": "LicenseManager",
"cloudTrailEventSource": "licensemanager.amazonaws.com",

"endpointPrefix":
"license-manager"
},
"aws.auth#sigv4": {
"name": "license-manager"
},
"aws.protocols#awsJson1_1": {},
"smithy.api#documentation": " License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers. ",
"smithy.api#title": "AWS License Manager",
"smithy.api#xmlNamespace": {
"uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
}
}
},
"com.amazonaws.licensemanager#AcceptGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#AcceptGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#AcceptGrantResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {

"smithy.api#documentation": " Accepts the specified grant. "
}
},
"com.amazonaws.licensemanager#AcceptGrantRequest":
{
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#AcceptGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant
status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
}
},
"com.amazonaws.licensemanager#AccessDeniedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {

```
            "aws.protocols#awsQueryError": {
                "code": "ServiceAccessDenied",
                "httpResponseCode": 401
            },
            "smithy.api#documentation": "<p>Access to resource denied.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 401
        }
    },
    "com.amazonaws.licensemanager#AllowedOperation":
{
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "CreateGrant",
                    "name": "CREATE_GRANT"
                },
                {
                    "value": "CheckoutLicense",
                    "name": "CHECKOUT_LICENSE"
                },
                {
                    "value": "CheckoutBorrowLicense",
                    "name": "CHECKOUT_BORROW_LICENSE"
                },
                {
                    "value": "CheckInLicense",
                    "name": "CHECK_IN_LICENSE"
                },
                {
                    "value": "ExtendConsumptionLicense",
                    "name": "EXTEND_CONSUMPTION_LICENSE"
                },
                {
                    "value": "ListPurchasedLicenses",
                    "name": "LIST_PURCHASED_LICENSES"
                 },
                {
                    "value": "CreateToken",
                    "name": "CREATE_TOKEN"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#AllowedOperationList": {
        "type": "list",
        "member": {
```

"target": "com.amazonaws.licensemanager#AllowedOperation"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 7
}
}
},
"com.amazonaws.licensemanager#Arn": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
}
},
"com.amazonaws.licensemanager#ArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
}
},
"com.amazonaws.licensemanager#AuthorizationException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "AuthorizationFailure",
"httpResponseCode": 403
},
"smithy.api#documentation": " The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n policy associated with this account. ",
"smithy.api#error": "client",
"smithy.api#httpError": 403
}
},
"com.amazonaws.licensemanager#AutomatedDiscoveryInformation":
{
"type": "structure",
"members": {

```
        "LastRunTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes automated discovery.</p>"
    }
},
"com.amazonaws.licensemanager#Boolean": {
    "type": "boolean"
},
"com.amazonaws.licensemanager#BorrowConfiguration": {
    "type": "structure",
    "members": {
        "AllowEarlyCheckIn": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Indicates whether early check-ins are allowed.</p>",
                 "smithy.api#required": {}
            }
        },
        "MaxTimeToLiveInMinutes": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
    }
},
"com.amazonaws.licensemanager#BoxBoolean": {
    "type": "boolean",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#BoxInteger": {
    "type": "integer",
    "traits": {
        "smithy.api#box": {}
    }
},
```

"com.amazonaws.licensemanager#BoxLong": {

"type": "long",
"traits": {
"smithy.api#box": {}
}
},
"com.amazonaws.licensemanager#CheckInLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks in the specified license. Check in a license when it is no longer in use. "
}
},
"com.amazonaws.licensemanager#CheckInLicenseRequest": {
"type": "structure",

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        "members": {
          "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License consumption token.</p>",

        "smithy.api#required": {}
            }
          },
          "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License beneficiary.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#CheckInLicenseResponse": {
        "type": "structure",
        "members": {}
      },
      "com.amazonaws.licensemanager#CheckoutBorrowLicense": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },

{
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                 "traits": {
                    "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
                    "smithy.api#required": {}
                }
            },
            "DigitalSignatureMethod": {
                "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
                "traits": {
                    "smithy.api#documentation": "<p>Digital signature method. The possible value is JSON Web
Signature (JWS) algorithm PS384.\n        For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>",
                    "smithy.api#required": {}
                }
```

```
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
 "<p>Node ID.</p>"
                }
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",

 "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>"
                }
            },
            "EntitlementsAllowed": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        },
        "SignedToken": {

        "target": "com.amazonaws.licensemanager#SignedToken",
            "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
            }
        },
        "IssuedAt": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
            }
        },
        "Expiration": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
            }
        },
        "CheckoutMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
                "smithy.api#documentation":
"<p>Information about constraints.</p>"
            }
        }
    }
  },
  "com.amazonaws.licensemanager#CheckoutLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
```

"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks out the specified license. "
}
},
"com.amazonaws.licensemanager#CheckoutLicenseRequest": {
"type": "structure",
"members": {
"ProductSKU":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. ",
"smithy.api#required": {}
}
},
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. ",
"smithy.api#required": {}
}
},
"KeyFingerprint": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Key fingerprint identifying the license. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Node ID. "
}
}
}
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
"type": "structure",
"members": {
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation":
" Allowed license entitlements. "
}
},
"SignedToken": {
"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",

"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the checkout license. "
}
}
}
},
"com.amazonaws.licensemanager#CheckoutType": {
"type": "string",
"traits": {
"smithy.api#enum": [
{

"value": "PROVISIONAL",
"name": "PROVISIONAL"
},
{
"value": "PERPETUAL",
"name": "PERPETUAL"
}
]
}
},
"com.amazonaws.licensemanager#ClientRequestToken":
{
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 36
}
}
},
"com.amazonaws.licensemanager#ClientToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#ConflictException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ConflictException",
"httpResponseCode": 409
},
"smithy.api#documentation": " There
was a conflict processing the request. Try your request again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 409
}
},

```
"com.amazonaws.licensemanager#ConsumedLicenseSummary": {
    "type": "structure",
    "members": {
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about license consumption.</p>"
     }
},
"com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
    }
},
"com.amazonaws.licensemanager#ConsumptionConfiguration": {
    "type": "structure",
    "members": {
        "RenewType": {
            "target": "com.amazonaws.licensemanager#RenewType",
            "traits": {
                "smithy.api#documentation": "<p>Renewal frequency.</p>"
            }
        },
        "ProvisionalConfiguration": {
            "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
            }
        },
        "BorrowConfiguration": {

            "target": "com.amazonaws.licensemanager#BorrowConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
            }
        }
```

```
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },

        {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of
license entitlements with specific Amazon Web Services accounts.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantRequest": {
        "type": "structure",
        "members": {

  "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
```

"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},

"Principals": {
"target": "com.amazonaws.licensemanager#PrincipalArnList",
"traits": {
"smithy.api#documentation": " The grant principals. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CreateGrantResponse":
{
"type": "structure",
"members": {

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            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersion": {
        "type": "operation",
        "input": {

"target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
```

```
            {

              "target": "com.amazonaws.licensemanager#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant.</p>"
          }
        },
        "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
          "type": "structure",
          "members": {
            "ClientToken": {
              "target": "com.amazonaws.licensemanager#ClientToken",
              "traits": {
                "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                "smithy.api#required": {}
              }
            },
            "GrantArn": {
              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                 "smithy.api#required": {}
              }
            },
            "GrantName": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Grant name.</p>"
              }
            },
            "AllowedOperations": {
              "target": "com.amazonaws.licensemanager#AllowedOperationList",
              "traits": {
                "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
              }
            },
            "Status": {
              "target": "com.amazonaws.licensemanager#GrantStatus",
              "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
              }
            },
            "StatusReason": {
              "target": "com.amazonaws.licensemanager#StatusReasonMessage",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Grant status reason.</p>"
            }
        },
        "SourceVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Current version of the grant.</p>"
            }
        }
    }
  },
  "com.amazonaws.licensemanager#CreateGrantVersionResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant
status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>New version of the grant.</p>"
            }
        }
    }
  },
  "com.amazonaws.licensemanager#CreateLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
```

```
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
```

"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Creates a license configuration. \n A license configuration is an abstraction of a customer license
agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a \n license must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension used to track the license inventory. ",
"smithy.api#required": {}
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {

"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances. "
}

```
            },
            "LicenseRules": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>License rules. The syntax is #name=value (for example,
#allowedTenancy=EC2-DedicatedHost). The available rules \n        vary by dimension, as follows.</p>\n
<ul>\n            <li>\n              <p>\n                <code>Cores</code> dimension: <code>allowedTenancy</code> |\n
          <code>licenseAffinityToHost</code> |\n              <code>maximumCores</code> |
<code>minimumCores</code>\n              </p>\n            </li>\n            <li>\n              <p>\n
<code>Instances</code> dimension: <code>allowedTenancy</code> | \n              <code>maximumCores</code>
 | <code>minimumCores</code> |\n              <code>maximumSockets</code> | <code>minimumSockets</code>
|\n              <code>maximumVcpus</code> | <code>minimumVcpus</code>\n              </p>\n            </li>\n
<li>\n              <p>\n                <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n
<code>licenseAffinityToHost</code> |\n              <code>maximumSockets</code> |
<code>minimumSockets</code>\n              </p>\n            </li>\n            <li>\n              <p>\n
<code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n
<code>honorVcpuOptimization</code> | \n              <code>maximumVcpus</code> |
<code>minimumVcpus</code>\n              </p>\n            </li>\n        </ul>\n        <p>The unit for
<code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n        values for
<code>allowedTenancy</code> are <code>EC2-Default</code>,
 <code>EC2-DedicatedHost</code>, and \n        <code>EC2-DedicatedInstance</code>. The possible values for
<code>honorVcpuOptimization</code> are \n        <code>True</code> and <code>False</code>.</p>"
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Tags to add to the license configuration.</p>"
                }
            },
            "DisassociateWhenNotFound": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
                }
            },
            "ProductInformationList": {
                "target": "com.amazonaws.licensemanager#ProductInformationList",
                "traits":
 {
                    "smithy.api#documentation": "<p>Product information.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse": {
        "type": "structure",
```

"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a new license conversion task. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest":
{
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource you are converting the license type for. ",
"smithy.api#required": {}
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting from. \n For the structure of the source license, see Convert a license type using the AWS CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting to. For the structure of the destination license, see Convert a license type using the AWS CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the created license type conversion task. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a report generator. "
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target":
"com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types an be generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}

```
            }
        },

    "ReportContext": {
            "target": "com.amazonaws.licensemanager#ReportContext",
            "traits": {
                "smithy.api#documentation": "<p>Defines the type of license configuration the report generator
tracks.</p>",
                "smithy.api#required": {}
            }
        },
        "ReportFrequency": {
            "target": "com.amazonaws.licensemanager#ReportFrequency",
            "traits": {
                "smithy.api#documentation": "<p>Frequency by which reports are generated.  Reports can be
generated daily, monthly, or weekly.</p>",
                "smithy.api#required": {}
            }
        },
        "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientRequestToken",
            "traits": {
                "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide
 to ensure the idempotency of the request.</p>",
                "smithy.api#required": {}
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the report generator.</p>"
            }
        },
        "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
                "smithy.api#documentation": "<p>Tags to add to the report generator.</p>"
            }
        }
      }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
      "type": "structure",
      "members": {
        "LicenseManagerReportGeneratorArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits":
```

```
{
                "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the new report generator.</p>"
            }
        }
    }
  },
  "com.amazonaws.licensemanager#CreateLicenseRequest": {
    "type": "structure",
    "members": {
      "LicenseName": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>License name.</p>",
          "smithy.api#required": {}
        }
      },
      "ProductName": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Product name.</p>",
          "smithy.api#required": {}
        }
      },
      "ProductSKU": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Product SKU.</p>",
          "smithy.api#required": {}
        }
      },
      "Issuer": {
        "target": "com.amazonaws.licensemanager#Issuer",
        "traits": {
          "smithy.api#documentation": "<p>License issuer.</p>",
          "smithy.api#required": {}
        }
      },
      "HomeRegion": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Home Region for the license.</p>",
          "smithy.api#required": {}
        }
      },
      "Validity": {
        "target": "com.amazonaws.licensemanager#DatetimeRange",
        "traits": {
```

"smithy.api#documentation":
" Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {

"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}

}
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
"type": "structure",

```
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
              "smithy.api#documentation": "<p>License status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License version.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseVersion":
{
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#RedirectException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
```

```
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License name.</p>",
                "smithy.api#required": {}
            }
        },
        "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product name.</p>",
                "smithy.api#required": {}
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#Issuer",
            "traits": {
                "smithy.api#documentation": "<p>License issuer.</p>",
                "smithy.api#required": {}
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation":
```

" Home Region of the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}

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            }
        },
        "SourceVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Current version of the license.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>License ARN.</p>"
            }
        },

   "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>New version of the license.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CreateToken": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateTokenResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
```

{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a long-lived token. \n A refresh token is a JWT token used to get an access token. With an access token,\n you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n call License Manager to manage the specified license. "
}
},
"com.amazonaws.licensemanager#CreateTokenRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n JWT token. ",
"smithy.api#required": {}
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n License Manager does not check whether the roles are in use. "
}
},
"ExpirationInDays": {
"target": "com.amazonaws.licensemanager#Integer",

"traits": {
"smithy.api#documentation": " Token expiration, in days, counted from token creation. The default is 365 days. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller to be included in the JWT token. The data is mapped\n to the amr claim of the JWT token. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Idempotency token, valid for 10 minutes. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CreateTokenResponse": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. "
}
},
"TokenType": {
"target": "com.amazonaws.licensemanager#TokenType",
"traits": {
"smithy.api#documentation": " Token type. "
}
},
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token, encoded as a JWT token. "
}
}
}
},
"com.amazonaws.licensemanager#DateTime": {
"type": "timestamp"

```
    },
    "com.amazonaws.licensemanager#DatetimeRange": {
        "type": "structure",
        "members": {
            "Begin": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Start of the time range.</p>",
                    "smithy.api#required": {}
                }
            },
            "End": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>End of the time range.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC
format.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
```

```
  },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      },
      {
        "target": "com.amazonaws.licensemanager#ValidationException"
      }
    ],
    "traits": {
      "smithy.api#documentation": "<p>Deletes the specified grant.</p>"
    }
  },
  "com.amazonaws.licensemanager#DeleteGrantRequest": {
    "type": "structure",
    "members": {
      "GrantArn": {
        "target": "com.amazonaws.licensemanager#Arn",
        "traits": {
          "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
          "smithy.api#required": {}
        }
      },
      "StatusReason": {
        "target": "com.amazonaws.licensemanager#StatusReasonMessage",
        "traits": {

    "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
        }
      },
      "Version": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Current version of the grant.</p>",
          "smithy.api#required": {}
        }
      }
    }
  },
  "com.amazonaws.licensemanager#DeleteGrantResponse": {
    "type": "structure",
    "members": {
      "GrantArn": {
        "target": "com.amazonaws.licensemanager#Arn",
        "traits": {
          "smithy.api#documentation": "<p>Grant ARN.</p>"
        }
      },
      "Status": {
```

"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation":
" Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
}
},
"com.amazonaws.licensemanager#DeleteLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],

```
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
         },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license configuration.</p> \n          <p>You cannot
delete a license configuration
 that is in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
```

"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified report generator. \n This action deletes the report generator, which stops it from generating future reports.\n The action cannot be reversed. It has no effect on the previous reports from this generator. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to be deleted. ",
"smithy.api#required": {}
}
}
}
},

"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#DeleteLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#DeleteLicenseResponse": {
"type": "structure",
"members": {
"Status": {
"target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"DeletionDate": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date when the license is deleted. "
}

```
            }
        }
    },
    "com.amazonaws.licensemanager#DeleteToken": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
        },
        "errors": [
            {

      "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
        }

  },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>",
```

"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#DeleteTokenResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#DigitalSignatureMethod": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "JWT_PS384",
"name": "JWT_PS384"
}
]
}
},
"com.amazonaws.licensemanager#Entitlement": {
"type": "structure",

"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement resource. Use only if the unit is None. "
}
},
"MaxCount": {
"target": "com.amazonaws.licensemanager#Long",
"traits": {
"smithy.api#documentation": " Maximum entitlement count. Use if the unit is not None. "
}
},
"Overage": {
"target": "com.amazonaws.licensemanager#BoxBoolean",

"traits": {
"smithy.api#documentation": " Indicates whether overages are allowed. "

```
            }
          },
          "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementUnit",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement unit.</p>",
              "smithy.api#required": {}
            }
          },
          "AllowCheckIn": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>Indicates whether check-ins are allowed.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes a resource entitled for use with a license.</p>"
        }
      },
      "com.amazonaws.licensemanager#EntitlementData": {
        "type": "structure",
         "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement data name.</p>",
              "smithy.api#required": {}
            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement data value.</p>"
            }
          },
          "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement data unit.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Data associated
with an entitlement resource.</p>"
        }
```

```
},
"com.amazonaws.licensemanager#EntitlementDataList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#EntitlementData"
    }
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "Count",
                "name": "COUNT"
            },
            {
                "value": "None",
                "name": "NONE"
            },
            {
                "value": "Seconds",
                "name": "SECONDS"
            },
            {
                "value": "Microseconds",
                "name": "MICROSECONDS"
            },
            {

"value": "Milliseconds",
                "name": "MILLISECONDS"
            },
            {
                "value": "Bytes",
                "name": "BYTES"
            },
            {
                "value": "Kilobytes",
                "name": "KILOBYTES"
            },
            {
                "value": "Megabytes",
                "name": "MEGABYTES"
            },
            {
                "value": "Gigabytes",
                "name": "GIGABYTES"
            },
```

```
            {
              "value": "Terabytes",
              "name": "TERABYTES"
            },
            {
              "value": "Bits",
              "name": "BITS"
            },
            {
              "value": "Kilobits",
              "name": "KILOBITS"
             },
            {
              "value": "Megabits",
              "name": "MEGABITS"
            },
            {
              "value": "Gigabits",
              "name": "GIGABITS"
            },
            {
              "value": "Terabits",
              "name": "TERABITS"
            },
            {
              "value": "Percent",
              "name": "PERCENT"
            },
            {
              "value": "Bytes/Second",
              "name": "BYTES_PER_SECOND"
            },
            {
              "value": "Kilobytes/Second",
              "name": "KILOBYTES_PER_SECOND"
            },
            {
              "value": "Megabytes/Second",
              "name": "MEGABYTES_PER_SECOND"

        },
            {
              "value": "Gigabytes/Second",
              "name": "GIGABYTES_PER_SECOND"
            },
            {
              "value": "Terabytes/Second",
              "name": "TERABYTES_PER_SECOND"
```

```
            },
            {
                "value": "Bits/Second",
                "name": "BITS_PER_SECOND"
            },
            {
                "value": "Kilobits/Second",
                "name": "KILOBITS_PER_SECOND"
            },
            {
                "value": "Megabits/Second",
                "name": "MEGABITS_PER_SECOND"
            },
            {
                "value": "Gigabits/Second",
                "name": "GIGABITS_PER_SECOND"
            },
            {
                "value": "Terabits/Second",

"name": "TERABITS_PER_SECOND"
            },
            {
                "value": "Count/Second",
                "name": "COUNT_PER_SECOND"
            }
        ]
    }
},
"com.amazonaws.licensemanager#EntitlementList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Entitlement"
    }
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
```

```
"com.amazonaws.licensemanager#EntitlementUnit": {

 "type": "string",
   "traits": {
      "smithy.api#enum": [
         {
            "value": "Count",
            "name": "COUNT"
         },
         {
            "value": "None",
            "name": "NONE"
         },
         {
            "value": "Seconds",
            "name": "SECONDS"
         },
         {
            "value": "Microseconds",
            "name": "MICROSECONDS"
         },
         {
            "value": "Milliseconds",
            "name": "MILLISECONDS"
         },
         {
            "value": "Bytes",
            "name": "BYTES"
         },
         {
            "value": "Kilobytes",
            "name": "KILOBYTES"

   },
         {
            "value": "Megabytes",
            "name": "MEGABYTES"
         },
         {
            "value": "Gigabytes",
            "name": "GIGABYTES"
         },
         {
            "value": "Terabytes",
            "name": "TERABYTES"
         },
         {
            "value": "Bits",
```

"name": "BITS"
},
{
"value": "Kilobits",
"name": "KILOBITS"
},
{
"value": "Megabits",
"name": "MEGABITS"
},
{
"value": "Gigabits",
"name": "GIGABITS"
},
{
"value": "Terabits",
"name": "TERABITS"
},
{
"value": "Percent",
"name": "PERCENT"
},
{
"value": "Bytes/Second",
"name": "BYTES_PER_SECOND"
},
{
"value": "Kilobytes/Second",
"name": "KILOBYTES_PER_SECOND"
},
{
"value": "Megabytes/Second",
"name": "MEGABYTES_PER_SECOND"
},
{
"value": "Gigabytes/Second",
"name": "GIGABYTES_PER_SECOND"
},
{
"value": "Terabytes/Second",
"name": "TERABYTES_PER_SECOND"
},
{

"value": "Bits/Second",
"name": "BITS_PER_SECOND"
},
{

```
                "value": "Kilobits/Second",
                "name": "KILOBITS_PER_SECOND"
            },
            {
                "value": "Megabits/Second",
                "name": "MEGABITS_PER_SECOND"
            },
            {
                "value": "Gigabits/Second",
                "name": "GIGABITS_PER_SECOND"
            },
            {
                "value": "Terabits/Second",
                "name": "TERABITS_PER_SECOND"
            },
            {
                "value": "Count/Second",
                "name": "COUNT_PER_SECOND"
            }
        ]
    }
},
"com.amazonaws.licensemanager#EntitlementUsage": {
    "type": "structure",

"members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                "smithy.api#required": {}
            }
        },
        "ConsumedValue": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxCount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
```

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            "traits": {
              "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
        }
      },
      "com.amazonaws.licensemanager#EntitlementUsageList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
      },
      "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
        },
        "errors": [
          {

        "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
```

"traits": {
"smithy.api#documentation": " Extends the expiration date for license consumption. "
}
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",
"smithy.api#required": {}
}
},
"DryRun": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#documentation": " Checks whether you have the required permissions for the action, without actually making the request. Provides an error response if you do not have the required permissions. "
}
}
}
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
"type": "structure",

"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license consumption expires. "
}
}
}
},
"com.amazonaws.licensemanager#FailedDependencyException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
},
"ErrorCode": {

"target": "com.amazonaws.licensemanager#String"
}
},

"traits": {
"aws.protocols#awsQueryError": {
"code": "FailedDependency",
"httpResponseCode": 424
},
"smithy.api#documentation": " A dependency required to run the API is missing. ",
"smithy.api#error": "client",
"smithy.api#httpError": 424
}
},
"com.amazonaws.licensemanager#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#FilterName",
"traits": {
"smithy.api#documentation": " Name of the filter. Filter names are case-sensitive. "
}
},
"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " Filter values. Filter values are case-sensitive. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter name and value pair that is used to return more specific results from a\n describe operation. Filters can be used to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FilterLimitExceeded",
"httpResponseCode": 400

```
            },
            "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
            "smithy.api#error":
"client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#FilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Filter"
        }
    },
    "com.amazonaws.licensemanager#FilterName": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#FilterValue": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#FilterValues": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#FilterValue",
            "traits": {
                "smithy.api#xmlName": "item"
            }
        }
    },
    "com.amazonaws.licensemanager#Filters": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Filter",
            "traits": {
                "smithy.api#xmlName":
"item"
            }
        }
    },
    "com.amazonaws.licensemanager#GetAccessToken": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
        },
        "errors": [
            {
```

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"

}
],
"traits": {
"smithy.api#documentation": " Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access tokens\n are valid for one hour. "
}
},
"com.amazonaws.licensemanager#GetAccessTokenRequest": {
"type": "structure",
"members": {
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token, encoded as a JWT token. ",
"smithy.api#required": {}
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Token properties to validate against those present in the JWT token. "
}

}
}
},
"com.amazonaws.licensemanager#GetAccessTokenResponse": {
"type": "structure",
"members": {
"AccessToken": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Temporary access token. "

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            }
        }
    }
},
"com.amazonaws.licensemanager#GetGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
```

```
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
                "smithy.api#documentation": "<p>Grant details.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",

    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
```

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license
configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
```

"com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationId":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Unique ID for the license configuration. "
}
},
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation":
" Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension for which the licenses are counted. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of available licenses. "
}
},
"LicenseCountHardLimit": {

"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Sets the number of available licenses as a hard limit. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses assigned to resources. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License configuration status. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the
owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList":
{
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "

```
            }
        },
        "AutomatedDiscoveryInformation": {
            "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
            "traits": {
                "smithy.api#documentation": "<p>Automated discovery information.</p>"
            }
        },
        "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
    "type":
 "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets
 information about the specified license type conversion task.</p>"
    }
},
```

"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information on. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted to. "

}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}

```
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
                }
            },
            "StartTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
                }
            },
            "LicenseConversionTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                 "traits": {
                    "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
                }
            },
            "EndTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation":
"<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {
            "ReportGenerator": {
                "target": "com.amazonaws.licensemanager#ReportGenerator",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic
reports about your license configurations.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetLicenseResponse": {
    "type": "structure",
    "members": {
        "License": {
            "target":
"com.amazonaws.licensemanager#License",
            "traits": {
                "smithy.api#documentation": "<p>License details.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetLicenseUsage": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
         },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageResponse":
{
        "type": "structure",
        "members": {
            "LicenseUsage": {
                "target": "com.amazonaws.licensemanager#LicenseUsage",
                "traits": {
                    "smithy.api#documentation": "<p>License usage details.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
```

{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets the License Manager settings for the current Region. "
}
},
"com.amazonaws.licensemanager#GetServiceSettingsRequest": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Regional S3 bucket path for storing reports, license trail event data, discovery data,\n and so on. "
}

},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " SNS topic configured to receive notifications from License Manager. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Indicates whether Organizations is integrated with License Manager for\n cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether cross-account discovery is enabled. "
}

```
    },
            "LicenseManagerResourceShareArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
Manager management account \n        provides member accounts with access to this share.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#Grant": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {

                   "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ParentArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Parent ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>License ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "GranteePrincipalArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The grantee principal ARN.</p>",
```

"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"Version": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. ",
"smithy.api#required": {}
}
},
"GrantedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Granted operations. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes a grant. "
}
},
"com.amazonaws.licensemanager#GrantList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Grant"
}

```
},
"com.amazonaws.licensemanager#GrantStatus": {
    "type": "string",

  "traits": {
        "smithy.api#enum": [
            {
                "value": "PENDING_WORKFLOW",
                "name": "PENDING_WORKFLOW"
            },
            {
                "value": "PENDING_ACCEPT",
                "name": "PENDING_ACCEPT"
            },
            {
                "value": "REJECTED",
                "name": "REJECTED"
            },
            {
                "value": "ACTIVE",
                "name": "ACTIVE"
            },
            {
                "value": "FAILED_WORKFLOW",
                "name": "FAILED_WORKFLOW"
            },
            {
                "value": "DELETED",
                "name": "DELETED"
            },
            {
                "value": "PENDING_DELETE",
                "name": "PENDING_DELETE"
             },
            {
                "value": "DISABLED",
                "name": "DISABLED"
            },
            {
                "value": "WORKFLOW_COMPLETED",
                "name": "WORKFLOW_COMPLETED"
            }
        ]
    }
},
"com.amazonaws.licensemanager#GrantedLicense": {
    "type": "structure",
    "members": {
```

"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. "
}

},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " Granted license issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the granted license. "

}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " Granted license status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the granted license is valid, in

ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Granted license beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Granted license metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Creation time of the granted license. "

}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Version of the granted license. "
}
},
"ReceivedMetadata": {
"target": "com.amazonaws.licensemanager#ReceivedMetadata",
"traits": {
"smithy.api#documentation": " Granted license received metadata. "
}
}
},
"traits": {

"smithy.api#documentation": " Describes a license that is granted to a grantee. "
}
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#GrantedLicense"
}
},
"com.amazonaws.licensemanager#ISO8601DateTime":
{
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
}
},
"com.amazonaws.licensemanager#Integer": {
"type": "integer",
"traits": {
"smithy.api#box": {}
}
},
"com.amazonaws.licensemanager#InvalidParameterValueException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidParameterValueProvided",

"httpResponseCode": 400
},
"smithy.api#documentation": " One or more parameter values are not valid. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#InvalidResourceStateException": {
"type": "structure",
"members": {

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            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidResourceState",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n        <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
            "smithy.api#error": "client",
             "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InventoryFilter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the filter.</p>",
                    "smithy.api#required": {}
                }
            },
            "Condition": {
                "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
                "traits": {
                    "smithy.api#documentation": "<p>Condition of the filter.</p>",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Value
 of the filter.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>An inventory filter.</p>"
        }
    },
    "com.amazonaws.licensemanager#InventoryFilterCondition": {
        "type": "string",
        "traits": {
```

"smithy.api#enum": [
{
"value": "EQUALS",
"name": "EQUALS"
},
{
"value": "NOT_EQUALS",
"name": "NOT_EQUALS"
},
{
"value": "BEGINS_WITH",
"name": "BEGINS_WITH"
},
{
"value": "CONTAINS",
"name": "CONTAINS"
}
]
}
},
"com.amazonaws.licensemanager#InventoryFilterList":
{
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#InventoryFilter"
}
},
"com.amazonaws.licensemanager#Issuer": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. ",
"smithy.api#required": {}
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
}
},
"traits": {

"smithy.api#documentation": " Details about the issuer of a license. "
}
},
"com.amazonaws.licensemanager#IssuerDetails": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. "
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer key fingerprint. "
}
}
},
"traits": {
"smithy.api#documentation": " Details associated with the issuer of a license. "
}
},
"com.amazonaws.licensemanager#License": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. "
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " License issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "

}
},

"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " License metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License creation time. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits":
{
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#documentation": " Software license that is managed in License Manager. "
}
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
"type": "structure",
"members": {
"LicenseConfigurationId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Unique ID of the license configuration. "
}
},
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}

},
"Name": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension to use to track the license inventory. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Number of available licenses as a hard limit. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "

}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed. "
}

```
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Status of the license configuration.</p>"
                }
            },
            "OwnerAccountId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Account ID of the license configuration's owner.</p>"
                }
            },
            "ConsumedLicenseSummaryList": {
                "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",

        "traits": {
                    "smithy.api#documentation": "<p>Summaries for licenses consumed by various resources.</p>"
                }
            },
            "ManagedResourceSummaryList": {
                "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>Summaries for managed resources.</p>"
                }
            },
            "ProductInformationList": {
                "target": "com.amazonaws.licensemanager#ProductInformationList",
                "traits": {
                    "smithy.api#documentation": "<p>Product information.</p>"
                }
            },
            "AutomatedDiscoveryInformation": {
                "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
                "traits": {
                    "smithy.api#documentation": "<p>Automated
 discovery information.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A license configuration is an abstraction of a customer license
agreement that can be\n        consumed and enforced by License Manager. Components include specifications for
the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n
Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n        must be associated with a
host), and the number of licenses purchased and used.</p>"
        }
    },
```

"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name
(ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource
consuming licenses. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was associated with the
resource. "
}
},
"AmiAssociationScope":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-
account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an association with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
}

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    },
    "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "AVAILABLE",
                    "name": "AVAILABLE"
                },
                 {
                    "value": "DISABLED",
                    "name": "DISABLED"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceStatus": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {

"smithy.api#documentation": "<p>Status of the resource.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
                }
            },
            "AssociationTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time when the license configuration was initially associated with
```

the resource. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}

},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
}
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfiguration"
}
},
"com.amazonaws.licensemanager#LicenseConversionContext": {
"type": "structure",
"members": {
"UsageOperation": {
"target": "com.amazonaws.licensemanager#UsageOperation",
"traits": {
"smithy.api#documentation": " The Usage operation value that corresponds to the license type you are converting your resource from. For more information about which platforms correspond to which usage operation values see Sample data: usage operation by platform\n \n "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTask": {
"type": "structure",
"members": {

"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the license type conversion task. "
}
},
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource associated with the license type\n conversion task. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted to. "
}
},

"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " The status of the conversion task. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was started at. "
}
},
"LicenseConversionTime": {

"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " The time the usage operation value of the resource was changed. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was completed. "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTaskId": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
}
},
"com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
"type":
"string",
"traits": {
"smithy.api#enum": [
{
"value": "IN_PROGRESS",
"name": "IN_PROGRESS"
},
{
"value": "SUCCEEDED",
"name": "SUCCEEDED"
},
{
"value": "FAILED",
"name": "FAILED"
}
]
}
},
"com.amazonaws.licensemanager#LicenseConversionTasks": {

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    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#LicenseConversionTask"
    }
},
"com.amazonaws.licensemanager#LicenseCountingType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "vCPU",
                "name": "VCPU"

            },
            {
                "value": "Instance",
                "name": "INSTANCE"
            },
            {
                "value": "Core",
                "name": "CORE"
            },
            {
                "value": "Socket",
                "name": "SOCKET"
            }
        ]
    }
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "PENDING_DELETE",
                "name": "PENDING_DELETE"
            },
            {
                "value": "DELETED",
                "name": "DELETED"
            }
        ]
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#License"
```

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        }
    },
    "com.amazonaws.licensemanager#LicenseOperationFailure": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type.</p>"
                }
            },
            "ErrorMessage": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Error message.</p>"

        }
            },
            "FailureTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Failure time.</p>"
                }
            },
            "OperationName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the operation.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the
resource.</p>"
                }
            },
            "OperationRequestedBy": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

"smithy.api#documentation": " The requester is \"License Manager Automated Discovery\". "
}
},
"MetadataList": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Reserved. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the failure of a license operation. "
}
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailure"
}
},
"com.amazonaws.licensemanager#LicenseSpecification": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseSpecification"
}

```
    },
    "com.amazonaws.licensemanager#LicenseStatus":
{
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "AVAILABLE",
                    "name": "AVAILABLE"
                },
                {
                    "value": "PENDING_AVAILABLE",
                    "name": "PENDING_AVAILABLE"
                },
                {
                    "value": "DEACTIVATED",
                    "name": "DEACTIVATED"
                },
                {
                    "value": "SUSPENDED",
                    "name": "SUSPENDED"
                },
                {
                    "value": "EXPIRED",
                    "name": "EXPIRED"
                },
                {
                    "value": "PENDING_DELETE",
                    "name": "PENDING_DELETE"
                },
                {

                 "value": "DELETED",
                    "name": "DELETED"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#LicenseUsage": {
        "type": "structure",
        "members": {
            "EntitlementUsages": {
                "target": "com.amazonaws.licensemanager#EntitlementUsageList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlement usages.</p>"
                }
            }
        },
```

"traits": {
"smithy.api#documentation": " Describes the entitlement usage associated with a license. "
}
},
"com.amazonaws.licensemanager#LicenseUsageException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {

"aws.protocols#awsQueryError": {
"code": "LicenseUsageFailure",
"httpResponseCode": 412
},
"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{

"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the resource associations for the specified license configuration. \n Resource associations need not consume licenses from a license configuration. \n For example, an AMI or a stopped instance might not consume a license (depending on \n the license rules). "
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationAssociations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license configuration. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {
"target":
"com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants distributed for the specified license. "
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranteePrincipalARN</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configuration operations that failed. "
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name of the license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "

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            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse": {
        "type": "structure",
        "members": {
          "LicenseOperationFailureList": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
            "traits": {
              "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListLicenseConfigurations":
    {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
```

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        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the license configurations for your account.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
          "LicenseConfigurationArns": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
           },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "Filters": {
            "target": "com.amazonaws.licensemanager#Filters",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n                Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n                Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n
                <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement
is used. \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n
</li>\n            <li>\n                <p>\n                <code>usagelimitExceeded</code> - A Boolean value that indicates
whether the available licenses have been exceeded. \n                Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
            }
          }
        }
      },
```

"com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
"type": "structure",
"members": {
"LicenseConfigurations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurations",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "

}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasks": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target":
"com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license type conversion tasks for your account. "
}
},

"com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
"type": "structure",
"members": {
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " \n Filters to scope the results. Valid filters are <code>ResourceArns</code> and <code>Status</code>.\n "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
"type": "structure",
"members": {
"LicenseConversionTasks": {
"target": "com.amazonaws.licensemanager#LicenseConversionTasks",
"traits": {
"smithy.api#documentation": " Information about the license configuration tasks for your account. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the report generators for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest": {
"type":
"structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported:
\n \n \n \n <code>LicenseConfigurationArn</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to
return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
"type": "structure",
"members": {
"ReportGenerators": {
"target": "com.amazonaws.licensemanager#ReportGeneratorList",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic reports about your license
configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
"type": "operation",
"input":
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Describes the
license configurations for the specified resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a resource that has an
associated license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",

             "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
        "type": "structure",
        "members": {
            "LicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
                }
            },
```

```
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersions": {
         "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation":
"<p>Lists all versions of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
```

```
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum
number of results to return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
        "type": "structure",
        "members": {
            "Licenses": {
                "target": "com.amazonaws.licensemanager#LicenseList",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenses": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicensesRequest"
        },
         "output": {
            "target": "com.amazonaws.licensemanager#ListLicensesResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
```

"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses for your account. "
}
},
"com.amazonaws.licensemanager#ListLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>Status</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}

```
        }
    },
    "com.amazonaws.licensemanager#ListLicensesResponse": {
        "type": "structure",
        "members": {
            "Licenses": {

    "target": "com.amazonaws.licensemanager#LicenseList",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrants": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },

{
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists grants that are received but not accepted.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
        "type": "structure",

    "members": {
            "GrantArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>ProductSKU</code>\n            </p>\n
        </li>\n            <li>\n                <p>\n                <code>LicenseIssuerName</code>\n            </p>\n
</li>\n            <li>\n                <p>\n                <code>LicenseArn</code>\n            </p>\n            </li>\n
<li>\n                <p>\n
  <code>GrantStatus</code>\n            </p>\n            </li>\n            <li>\n                <p>\n
<code>GranterAccountId</code>\n            </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
        "type": "structure",
        "members": {
            "Grants": {
```

"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Received grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"

},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists received licenses. "

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        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
        "type": "structure",

  "members": {
            "LicenseArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>ProductSKU</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                <code>Status</code>\n                </p>\n            </li>\n
<li>\n                <p>\n                <code>Fingerprint</code>\n                </p>\n            </li>\n            <li>\n
<p>\n                <code>IssuerName</code>\n
            </p>\n            </li>\n            <li>\n                <p>\n                <code>Beneficiary</code>\n                </p>\n
        </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
        "type": "structure",
        "members": {
            "Licenses": {

  "target": "com.amazonaws.licensemanager#GrantedLicenseList",
                "traits": {
                    "smithy.api#documentation": "<p>Received license details.</p>"
                }
            },
```

```
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventory": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"

},
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FailedDependencyException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryRequest": {

        "type": "structure",
        "members": {
```

"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#InventoryFilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>application_name</code> - The name of the application. \n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n \n \n \n <code>license_included</code> - The type of license included. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n Possible values are <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n \n <code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n \n \n \n <code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account). \n \n "
}
}
}
},
"com.amazonaws.licensemanager#ListResourceInventoryResponse": {
"type": "structure",
"members": {
"ResourceInventoryList": {
"target": "com.amazonaws.licensemanager#ResourceInventoryList",
"traits":
{
"smithy.api#documentation": " Information about the resources. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",

```
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the tags for the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required":
 {}
                }
            }
        }
```

```
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the tags.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
            "TokenIds": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
```

"smithy.api#documentation": " Token IDs. "
}
},
"Filters": {
"target":
"com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filter is supported: \n
\n \n \n <code>LicenseArns</code>\n \n \n
"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListTokensResponse":
{
"type": "structure",
"members": {
"Tokens": {
"target": "com.amazonaws.licensemanager#TokenList",
"traits": {
"smithy.api#documentation": " Received token details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"

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        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying license\n        consumption details by resource
 at a selected point in time. Use this action to audit the\n        current license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
```

"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>resourceArn</code> - The ARN of the license configuration resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceAccount</code> - The ID of the account that owns the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationUsageList": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#Location": {
"type": "string"
},
"com.amazonaws.licensemanager#Long": {
"type": "long",
"traits": {

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        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummary": {
    "type": "structure",
    "members": {
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
            }
        },
        "AssociationCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {
    "type": "integer",
    "traits": {
        "smithy.api#box": {},
        "smithy.api#range": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
```

```
            }
        }
    },
    "com.amazonaws.licensemanager#Message": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#Metadata": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The key name.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes key/value pairs.</p>"
        }

    },
    "com.amazonaws.licensemanager#MetadataList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Metadata"
        }
    },
    "com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>There are no entitlements found for this license, or the entitlement
maximum count is reached.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#OrganizationConfiguration": {
```

"type": "structure",
"members": {
"EnableIntegration": {
"target": "com.amazonaws.licensemanager#Boolean",

"traits": {
"smithy.api#documentation": " Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when

the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n
Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n
Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n
<code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n \n ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information for a license configuration. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
"type": "structure",
"members": {
"ProductInformationFilterName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Filter name. ",
"smithy.api#required": {}
}
},

"ProductInformationFilterValue": {
"target":
"com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " Filter value. "
}
},
"ProductInformationFilterComparator": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Logical operator. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information filters. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ProductInformationFilter"
}
},
"com.amazonaws.licensemanager#ProductInformationList": {
"type": "list",

"member": {
"target": "com.amazonaws.licensemanager#ProductInformation"
}
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
"type": "structure",
"members": {
"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the provisional configuration, in minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"com.amazonaws.licensemanager#RateLimitExceededException": {

"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"

}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "RateLimitExceeded",
"httpResponseCode": 429
},
"smithy.api#documentation": " Too many requests have been submitted. Try again after a brief wait. ",
"smithy.api#error": "client",
"smithy.api#httpError": 429
}
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
"type": "structure",
"members": {
"ReceivedStatus": {
"target": "com.amazonaws.licensemanager#ReceivedStatus",
"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {

"smithy.api#documentation": " Received status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations. "
}
}
},
"traits": {
"smithy.api#documentation": " Metadata associated with received licenses and grants. "
}
},
"com.amazonaws.licensemanager#ReceivedStatus": {
"type": "string",
"traits": {

```
            "smithy.api#enum": [
                {
                    "value": "PENDING_WORKFLOW",
                    "name": "PENDING_WORKFLOW"
                },
                {
                    "value": "PENDING_ACCEPT",
                    "name": "PENDING_ACCEPT"
                },
                 {
                    "value": "REJECTED",
                    "name": "REJECTED"
                },
                {
                    "value": "ACTIVE",
                    "name": "ACTIVE"
                },
                {
                    "value": "FAILED_WORKFLOW",
                    "name": "FAILED_WORKFLOW"
                },
                {
                    "value": "DELETED",
                    "name": "DELETED"
                },
                {
                    "value": "DISABLED",
                    "name": "DISABLED"
                },
                {
                    "value": "WORKFLOW_COMPLETED",
                    "name": "WORKFLOW_COMPLETED"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#RedirectException": {
        "type": "structure",
        "members": {

    "Location": {
                "target": "com.amazonaws.licensemanager#Location",
                "traits": {
                    "smithy.api#httpHeader": "Location"
                }
            },
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
```

```
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 308
        }
    },
    "com.amazonaws.licensemanager#RejectGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#RejectGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#RejectGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest":
{
        "type": "structure",
        "members": {
            "GrantArn": {
```

```
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanager#RejectGrantResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"

    }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#RenewType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "None",
                "name": "NONE"
            },
            {
                "value": "Weekly",
                "name": "WEEKLY"
            },
            {
                "value": "Monthly",
                "name": "MONTHLY"
            }
```

```
            ]
          }
        },
        "com.amazonaws.licensemanager#ReportContext": {
          "type": "structure",
          "members": {

    "licenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                  "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration that this generator reports on.</p>",
                  "smithy.api#required": {}
                }
              }
          },
          "traits": {
            "smithy.api#documentation": "<p>Details of the license configuration that this generator reports on.</p>"
          }
        },
        "com.amazonaws.licensemanager#ReportFrequency": {
          "type": "structure",
          "members": {
            "value": {
              "target": "com.amazonaws.licensemanager#Integer",
              "traits": {
                "smithy.api#documentation": "<p>Number of times within the frequency period that a report is generated.  \n        The only supported value is <code>1</code>.</p>"

              }
              },
              "period": {
              "target": "com.amazonaws.licensemanager#ReportFrequencyType",
              "traits": {
                "smithy.api#documentation": "<p>Time period between each report. The period can be daily, weekly, or monthly.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
          }
        },
        "com.amazonaws.licensemanager#ReportFrequencyType": {
          "type": "string",
          "traits": {
            "smithy.api#enum": [
              {
```

```
            "value": "DAY",
            "name": "DAY"
          },
          {
            "value": "WEEK",
            "name": "WEEK"
          },
          {
            "value": "MONTH",

        "name": "MONTH"
          }
        ]
      }
    },
    "com.amazonaws.licensemanager#ReportGenerator": {
      "type": "structure",
      "members": {
        "ReportGeneratorName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Name of the report generator.</p>"
          }
        },
        "ReportType": {
          "target": "com.amazonaws.licensemanager#ReportTypeList",
          "traits": {
            "smithy.api#documentation": "<p>Type of reports that are generated.</p>"
          }
        },
        "ReportContext": {
          "target": "com.amazonaws.licensemanager#ReportContext",
          "traits": {
            "smithy.api#documentation": "<p>License configuration type for this generator.</p>"
           }
        },
        "ReportFrequency": {
          "target": "com.amazonaws.licensemanager#ReportFrequency",
          "traits": {
            "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
          }
        },
        "LicenseManagerReportGeneratorArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>"
          }
        },
```

"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}
},
"LastRunFailureReason": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Failure message for the last report generation attempt. "
}
},
"LastReportGenerationTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the last report was generated at. "
}
},
"ReportCreatorAccount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Web Services account ID used to create the report generator. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the report was created. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",

```
            "traits": {
                "smithy.api#documentation": "<p>Tags associated with the report generator.</p>"
            }
        }
    },

"traits": {
        "smithy.api#documentation": "<p>Describe the details of a report generator.</p>"
    }
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportGenerator"
    }
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#ReportType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "LicenseConfigurationSummaryReport",
                "name": "LICENSE_CONFIGURATION_SUMMARY_REPORT"
            },
            {
                "value": "LicenseConfigurationUsageReport",
                 "name": "LICENSE_CONFIGURATION_USAGE_REPORT"
            }
        ]
    }
},
"com.amazonaws.licensemanager#ReportTypeList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportType"
    }
},
"com.amazonaws.licensemanager#ResourceInventory": {
    "type": "structure",
```

```
        "members": {
          "ResourceId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>ID of the resource.</p>"
            }
          },
          "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
              "smithy.api#documentation": "<p>Type of resource.</p>"
            }
          },
           "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
          },
          "Platform": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Platform of the resource.</p>"
            }
          },
          "PlatformVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
            }
          },
          "ResourceOwningAccountId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation":
"<p>ID of the account that owns the resource.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about a resource.</p>"
        }
      },
      "com.amazonaws.licensemanager#ResourceInventoryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#ResourceInventory"
        }
```

```
    },
    "com.amazonaws.licensemanager#ResourceLimitExceededException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ResourceLimitExceeded",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>Your resource limits have
been exceeded.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#ResourceNotFoundException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidResource.NotFound",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>The resource cannot be found.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#ResourceType": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "EC2_INSTANCE",
                     "name": "EC2_INSTANCE"
                },
                {
                    "value": "EC2_HOST",
                    "name": "EC2_HOST"
                },
```

```
                {
                    "value": "EC2_AMI",
                    "name": "EC2_AMI"
                },
                {
                    "value": "RDS",
                    "name": "RDS"
                },
                {
                    "value": "SYSTEMS_MANAGER_MANAGED_INSTANCE",
                    "name": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#S3Location": {
        "type": "structure",
        "members": {
            "bucket": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the S3 bucket
 reports are published to.</p>"
                }
            },
            "keyPrefix": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Prefix of the S3 bucket reports are published to.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
        }
    },
    "com.amazonaws.licensemanager#ServerInternalException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InternalError",
                "httpResponseCode": 500
```

```
            },
            "smithy.api#documentation":
"<p>The server experienced an internal error. Try again.</p>",
            "smithy.api#error": "server",
            "smithy.api#httpError": 500
        }
    },
    "com.amazonaws.licensemanager#SignedToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 4096
            }
        }
    },
    "com.amazonaws.licensemanager#StatusReasonMessage": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 400
            },
            "smithy.api#pattern": "^[\\s\\S]+$"
        }
    },
    "com.amazonaws.licensemanager#String": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"

      }
    },
    "com.amazonaws.licensemanager#Tag": {
        "type": "structure",
        "members": {
            "Key": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag key.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag value.</p>"
```

```
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#String"
        }
      },
      "com.amazonaws.licensemanager#TagList":
  {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#Tag"
        }
      },
      "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },

    {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
```

```
        }
    },
    "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>One or more tags.</p>",
                    "smithy.api#required":
 {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
            "TokenType": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>"
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
```

```
            },
            "ExpirationTime": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Token expiration time, in ISO8601-UTC format.</p>"
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Data specified by the caller.</p>"
                }
            },
            "RoleArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the roles included in the
token.</p>"
                }
             },
            "Status": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token status. The possible values are
<code>AVAILABLE</code> and <code>DELETED</code>.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes a token.</p>"
        }
    },
    "com.amazonaws.licensemanager#TokenList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#TokenData"
        }
    },
    "com.amazonaws.licensemanager#TokenString": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 4096
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
```

"com.amazonaws.licensemanager#TokenType":
{
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "REFRESH_TOKEN",
"name": "REFRESH_TOKEN"
}
]
}
},
"com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The digital signature method is unsupported. Try your request again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#UntagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UntagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{

"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Removes the specified tags from the specified license configuration. "
}
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",
"traits": {
"smithy.api#documentation": " Keys identifying the tags to remove. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseConfigurationStatus": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
                "traits": {
                    "smithy.api#documentation": "<p>New status of the license configuration.</p>"
                }
            },
            "LicenseRules": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>New license rule. The only rule that you can add after you create a
license\n        configuration is licenseAffinityToHost.</p>"
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>New number of licenses managed by the license
configuration.</p>"
                }
```

```
            },
            "LicenseCountHardLimit": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>New hard limit of the number of available licenses.</p>"
                }

        },
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>New name of the license configuration.</p>"
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>New description of the license configuration.</p>"
                }
            },
            "ProductInformationList": {
                "target": "com.amazonaws.licensemanager#ProductInformationList",
                "traits": {
                    "smithy.api#documentation": "<p>New product information.</p>"
                }
            },
            "DisassociateWhenNotFound": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
```

{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates a report generator. \n After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated. "

}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to update. ",
"smithy.api#required": {}
}
},
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}

```
                }
            },
            "Type": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports to generate. The following report types are supported:</p>\n <ul>\n <li>\n <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p>\n </li>\n <li>\n <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n </li>\n </ul>",
                    "smithy.api#required": {}
                }
            },
            "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
                    "smithy.api#documentation": "<p>The report context.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportFrequency": {
                "target": "com.amazonaws.licensemanager#ReportFrequency",
                "traits": {
                    "smithy.api#documentation": "<p>Frequency by which reports are generated.</p>",
                    "smithy.api#required": {}
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientRequestToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the report generator.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {}
    },
```

"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#InvalidResourceStateException"

},
{
"target": "com.amazonaws.licensemanager#LicenseUsageException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Adds or removes the specified license configurations for the specified Amazon Web Services resource. \n You can update the license specifications of AMIs, instances, and hosts.\n You cannot update the license specifications for launch templates and CloudFormation templates, \n as they send license configurations to the operation that creates the resource. "
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon Web Services resource. ",
"smithy.api#required": {}

```
            }
        },
        "AddLicenseSpecifications": {
            "target": "com.amazonaws.licensemanager#LicenseSpecifications",
            "traits": {
                "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
            }
        },
        "RemoveLicenseSpecifications": {
            "target": "com.amazonaws.licensemanager#LicenseSpecifications",
            "traits": {
                "smithy.api#documentation": "<p>ARNs of the license configurations to remove.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {}
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
    }
```

```
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where
the License Manager information is stored.</p>"
                }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon
 Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Enables integration with Organizations for cross-account
discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Activates cross-account discovery.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#UsageOperation": {
        "type":
 "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            }
        }
    },
    "com.amazonaws.licensemanager#ValidationException": {
```

```
            "type": "structure",
            "members": {
                "Message": {
                    "target": "com.amazonaws.licensemanager#Message"
                }
            },
            "traits": {
                "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
                "smithy.api#error": "client",
                "smithy.api#httpError": 400
            }
        }
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
```

```
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string
```

```
// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

//
Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err
!= nil {
 return err
}
```

```
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return
 nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
```

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string
```

```
 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
```

```
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
 err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
```

```
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
```

```
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

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```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
```

```
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if
 err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
```

```
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}
```

1.4254 aws-sdk-go-v2-config 1.15.3

1.4254.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
```

```
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {
```

```
 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
```

```
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
 nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
```

```
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
```

```
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
```

```
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
```

```
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
```

```
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
```

```
 if err = addRetryMiddlewares(stack,
 options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil
 {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
```

```
  OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
     - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
       with:
         python-version: ${{ matrix.python-version }}
     # ScanCode
     - name: Self-configure scancode
       working-directory: ./scancode-toolkit
       run: ./scancode --help
     - name: Run Scan code on target
       run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
```

```
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
```

```
//
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
```

```
 Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
```

```
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
```

```
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}
```

```
type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
 middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}
```

AWS SDK for Go

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```
{
   "smithy": "1.0",
   "metadata": {
       "suppressions": [
           {
               "id": "HttpMethodSemantics",
               "namespace": "*"
           },
           {
               "id": "HttpResponseCodeSemantics",
               "namespace": "*"
           },
           {
               "id": "PaginatedTrait",
               "namespace": "*"
           },
           {
               "id": "HttpHeaderTrait",
               "namespace": "*"
```

```
        },
        {
            "id": "HttpUriConflict",
            "namespace": "*"
        },
        {
            "id": "Service",
            "namespace": "*"
        }
    ]
},
"shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
        "type": "service",
        "version": "2018-08-01",
        "operations": [
            {
                "target": "com.amazonaws.licensemanager#AcceptGrant"
            },

 {
                "target": "com.amazonaws.licensemanager#CheckInLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CheckoutLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateGrant"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateGrantVersion"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
             },
            {
```

"target": "com.amazonaws.licensemanager#CreateLicenseVersion"
},
{
"target": "com.amazonaws.licensemanager#CreateToken"
},
{
"target": "com.amazonaws.licensemanager#DeleteGrant"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicense"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#DeleteToken"
},
{
"target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

},
{
"target": "com.amazonaws.licensemanager#GetAccessToken"
},
{
"target": "com.amazonaws.licensemanager#GetGrant"
},
{
"target": "com.amazonaws.licensemanager#GetLicense"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseUsage"
},
{
"target": "com.amazonaws.licensemanager#GetServiceSettings"
},

{
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#ListDistributedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
"target": "com.amazonaws.licensemanager#ListLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

"target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListResourceInventory"
},
{
"target": "com.amazonaws.licensemanager#ListTagsForResource"
},
{
"target": "com.amazonaws.licensemanager#ListTokens"
},
{
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#RejectGrant"

```
            },
            {
                "target": "com.amazonaws.licensemanager#TagResource"
            },
            {
                "target": "com.amazonaws.licensemanager#UntagResource"
            },
            {
                "target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
            },
            {
                "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
            },
            {
                "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
            },
            {
                "target": "com.amazonaws.licensemanager#UpdateServiceSettings"
            }
        ],
        "traits": {
            "aws.api#service": {
                "sdkId": "License Manager",
                "arnNamespace": "license-manager",
                "cloudFormationName": "LicenseManager",
                "cloudTrailEventSource": "licensemanager.amazonaws.com",
                "endpointPrefix":
 "license-manager"
            },
            "aws.auth#sigv4": {
                "name": "license-manager"
            },
            "aws.protocols#awsJson1_1": {},
            "smithy.api#documentation": "<p>License Manager makes it easier to manage licenses from software
vendors across multiple \n        Amazon Web Services accounts and on-premises servers.</p>",
            "smithy.api#title": "AWS License Manager",
            "smithy.api#xmlNamespace": {
                "uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
            }
        }
    },
    "com.amazonaws.licensemanager#AcceptGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#AcceptGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
```

```
        },
        "errors": [
          {

          "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
        }
      },
      "com.amazonaws.licensemanager#AcceptGrantRequest":
{
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanager#AcceptGrantResponse": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
```

"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant
status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
}
},
"com.amazonaws.licensemanager#AccessDeniedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ServiceAccessDenied",
"httpResponseCode": 401
},
"smithy.api#documentation": " Access to resource denied. ",
"smithy.api#error": "client",
"smithy.api#httpError": 401
}
},
"com.amazonaws.licensemanager#AllowedOperation":
{
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "CreateGrant",
"name": "CREATE_GRANT"
},
{
"value": "CheckoutLicense",
"name": "CHECKOUT_LICENSE"
},

```
            {
              "value": "CheckoutBorrowLicense",
              "name": "CHECKOUT_BORROW_LICENSE"
            },
            {
              "value": "CheckInLicense",
              "name": "CHECK_IN_LICENSE"
            },
            {
              "value": "ExtendConsumptionLicense",
              "name": "EXTEND_CONSUMPTION_LICENSE"
            },
            {
              "value": "ListPurchasedLicenses",
              "name": "LIST_PURCHASED_LICENSES"
            },
            {
              "value": "CreateToken",
              "name": "CREATE_TOKEN"
            }
          ]
        }
      },
      "com.amazonaws.licensemanager#AllowedOperationList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#AllowedOperation"
        },
        "traits": {
          "smithy.api#length": {
            "min": 1,
            "max": 7
          }
        }
      },
      "com.amazonaws.licensemanager#Arn": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 0,
            "max": 2048
          },
          "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
        }
      },
      "com.amazonaws.licensemanager#ArnList": {
        "type": "list",
```

```
        "member": {
            "target": "com.amazonaws.licensemanager#Arn"
        }
    },
    "com.amazonaws.licensemanager#AuthorizationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "AuthorizationFailure",
                "httpResponseCode": 403
            },
            "smithy.api#documentation": "<p>The Amazon Web Services user account does not have permission to
perform the action. Check the IAM\n        policy associated with this account.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 403
        }
    },
    "com.amazonaws.licensemanager#AutomatedDiscoveryInformation":
 {
        "type": "structure",
        "members": {
            "LastRunTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes automated discovery.</p>"
        }
    },
    "com.amazonaws.licensemanager#Boolean": {
        "type": "boolean"
    },
    "com.amazonaws.licensemanager#BorrowConfiguration": {
        "type": "structure",
        "members": {
            "AllowEarlyCheckIn": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether early check-ins are allowed.</p>",
```

"smithy.api#required": {}
}
},
"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the borrow configuration, in minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details about a borrow configuration. "
}
},
"com.amazonaws.licensemanager#BoxBoolean": {
"type": "boolean",
"traits": {
"smithy.api#box": {}
}
},
"com.amazonaws.licensemanager#BoxInteger": {
"type": "integer",
"traits": {
"smithy.api#box": {}
}
},
"com.amazonaws.licensemanager#BoxLong": {

"type": "long",
"traits": {
"smithy.api#box": {}
}
},
"com.amazonaws.licensemanager#CheckInLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",

        "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
        "type": "structure",
        "members": {}
    },
```

"com.amazonaws.licensemanager#CheckoutBorrowLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks out the specified license for offline use. "
}

},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The license must use the borrow consumption configuration. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. Partial checkouts are not supported. ",
"smithy.api#required": {}
}
},
"DigitalSignatureMethod": {
"target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
"traits": {
"smithy.api#documentation": " Digital signature method. The possible value is JSON Web Signature (JWS) algorithm PS384.\n For more information, see RFC 7518 Digital Signature with RSASSA-PSS. ",
"smithy.api#required": {}
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}

```
            }
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",

"traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>"
                }
            },
            "EntitlementsAllowed": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "SignedToken": {

           "target": "com.amazonaws.licensemanager#SignedToken",
                "traits": {
                    "smithy.api#documentation": "<p>Signed token.</p>"
                }
            },
            "IssuedAt": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
                }
            },
            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
```

```
            }
          },
          "CheckoutMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
              "smithy.api#documentation":
"<p>Information about constraints.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#CheckoutLicense": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
          },
          {

 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#RedirectException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
          },
```

```
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutLicenseRequest": {
        "type": "structure",
        "members": {
            "ProductSKU":
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "CheckoutType": {
                "target": "com.amazonaws.licensemanager#CheckoutType",
                "traits": {
                    "smithy.api#documentation": "<p>Checkout type.</p>",
                    "smithy.api#required": {}
                }
            },
            "KeyFingerprint": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Key fingerprint identifying the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                 "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",
                    "smithy.api#required": {}
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
```

"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Node ID. "
}
}
}
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
"type": "structure",
"members": {
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation":
" Allowed license entitlements. "
}
},
"SignedToken": {
"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}

```
            },
            "IssuedAt": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
                }
            },
            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",

             "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CheckoutType": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "PROVISIONAL",
                    "name": "PROVISIONAL"
                },
                {
                    "value": "PERPETUAL",
                    "name": "PERPETUAL"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#ClientRequestToken":
{
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max": 36
            }
        }
    },
    "com.amazonaws.licensemanager#ClientToken": {
```

"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#ConflictException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ConflictException",
"httpResponseCode": 409
},
"smithy.api#documentation": " There
was a conflict processing the request. Try your request again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 409
}
},
"com.amazonaws.licensemanager#ConsumedLicenseSummary": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Resource type of the resource consuming a license. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about license consumption. "
}
},
"com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {

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    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
    }
},
"com.amazonaws.licensemanager#ConsumptionConfiguration": {
    "type": "structure",
    "members": {
        "RenewType": {
            "target": "com.amazonaws.licensemanager#RenewType",
            "traits": {
                "smithy.api#documentation": "<p>Renewal frequency.</p>"
            }
        },
        "ProvisionalConfiguration": {
            "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
            }
        },
        "BorrowConfiguration": {

            "target": "com.amazonaws.licensemanager#BorrowConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
    }
},
"com.amazonaws.licensemanager#CreateGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
```

{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a grant for the specified license. A grant shares the use of license entitlements with specific Amazon Web Services accounts. "
}
},
"com.amazonaws.licensemanager#CreateGrantRequest": {
"type": "structure",
"members": {

"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},

"Principals": {
"target": "com.amazonaws.licensemanager#PrincipalArnList",
"traits": {
"smithy.api#documentation": " The grant principals. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CreateGrantResponse":
{
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
}
},
"com.amazonaws.licensemanager#CreateGrantVersion": {

"type": "operation",
"input": {

"target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a new version of the specified grant. "
}
},
"com.amazonaws.licensemanager#CreateGrantVersionRequest": {
"type": "structure",
"members": {
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantArn": {

```
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                 "smithy.api#required": {}
            }
        },
        "GrantName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant name.</p>"
            }
        },
        "AllowedOperations": {
            "target": "com.amazonaws.licensemanager#AllowedOperationList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "StatusReason": {
            "target": "com.amazonaws.licensemanager#StatusReasonMessage",

       "traits": {
                "smithy.api#documentation": "<p>Grant status reason.</p>"
            }
        },
        "SourceVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Current version of the grant.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
```

"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant
status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New version of the grant. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a license. "

```
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license configuration.</p> \n        <p>A license configuration is an abstraction of a customer license
 agreement that can be\n        consumed and enforced by License Manager. Components include specifications for the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), license affinity  to host (how long a \n        license must be associated with a host), and the number of licenses purchased and used.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>",
                    "smithy.api#required": {}
                }
```

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            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Description of the license configuration.</p>"
                }
            },
            "LicenseCountingType": {
                "target": "com.amazonaws.licensemanager#LicenseCountingType",
                "traits": {
                    "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
                }
            },
            "LicenseCountHardLimit": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {

        "smithy.api#documentation": "<p>Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n        blocks the launch of new instances.</p>"
                }
            },
            "LicenseRules": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n        vary by dimension, as follows.</p>\n <ul>\n        <li>\n            <p>\n                <code>Cores</code> dimension: <code>allowedTenancy</code> |\n        <code>licenseAffinityToHost</code> |\n            <code>maximumCores</code> | <code>minimumCores</code>\n            </p>\n        </li>\n        <li>\n            <p>\n <code>Instances</code> dimension: <code>allowedTenancy</code> | \n            <code>maximumCores</code> | <code>minimumCores</code> |\n            <code>maximumSockets</code> | <code>minimumSockets</code> |\n            <code>maximumVcpus</code> | <code>minimumVcpus</code>\n            </p>\n        </li>\n <li>\n            <p>\n                <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n <code>licenseAffinityToHost</code> |\n            <code>maximumSockets</code> | <code>minimumSockets</code>\n            </p>\n        </li>\n        <li>\n            <p>\n <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n <code>honorVcpuOptimization</code> | \n            <code>maximumVcpus</code> | <code>minimumVcpus</code>\n            </p>\n        </li>\n    </ul>\n    <p>The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n        values for <code>allowedTenancy</code> are <code>EC2-Default</code>,
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<code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for
<code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>.</p>"
            }
        },
        "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
                "smithy.api#documentation": "<p>Tags to add to the license configuration.</p>"
            }
        },
        "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
        },
        "ProductInformationList": {
            "target": "com.amazonaws.licensemanager#ProductInformationList",
            "traits":
{
                "smithy.api#documentation": "<p>Product information.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationResponse": {
    "type": "structure",
    "members": {
        "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
     },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest":
{
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting
from. \n        For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the AWS
CLI</a> in the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            },
            "DestinationLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting to.
For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-
```

manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the AWS CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the created license type conversion task. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},

```
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "ReportGeneratorName": {
                "target":
 "com.amazonaws.licensemanager#ReportGeneratorName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>",
                    "smithy.api#required": {}
                }
            },
            "Type": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports to generate. The following report types an be
generated:</p>\n        <ul>\n            <li>\n                <p>License configuration report - Reports the number and
details of consumed licenses for a license configuration.</p>\n            </li>\n            <li>\n                <p>Resource
report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n            </li>\n
</ul>",
                    "smithy.api#required": {}
                }
            },

        "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
                    "smithy.api#documentation": "<p>Defines the type of license configuration the report generator
tracks.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportFrequency": {
                "target": "com.amazonaws.licensemanager#ReportFrequency",
                "traits": {
                    "smithy.api#documentation": "<p>Frequency by which reports are generated.  Reports can be
generated daily, monthly, or weekly.</p>",
                    "smithy.api#required": {}
                }
            },
            "ClientToken": {
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"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the new report generator. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseRequest": {
"type": "structure",
"members": {
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. ",

"smithy.api#required": {}
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits": {
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region for the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation":
" Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",

"traits": {

"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}

}
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
}
},

"com.amazonaws.licensemanager#CreateLicenseVersion":
{
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a new version of the specified license. "
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}

```
        },
        "LicenseName": {
          "target": "com.amazonaws.licensemanager#String",
           "traits": {
            "smithy.api#documentation": "<p>License name.</p>",
            "smithy.api#required": {}
          }
        },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product name.</p>",
            "smithy.api#required": {}
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#Issuer",
          "traits": {
            "smithy.api#documentation": "<p>License issuer.</p>",
            "smithy.api#required": {}
          }
        },
        "HomeRegion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation":
 "<p>Home Region of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "Validity": {
          "target": "com.amazonaws.licensemanager#DatetimeRange",
          "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
            "smithy.api#required": {}
          }
        },
        "LicenseMetadata": {
          "target": "com.amazonaws.licensemanager#MetadataList",
          "traits": {
            "smithy.api#documentation": "<p>Information about the license.</p>"
          }
        },
        "Entitlements": {
          "target": "com.amazonaws.licensemanager#EntitlementList",
          "traits": {
            "smithy.api#documentation": "<p>License entitlements.</p>",
```

"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target":
"com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. "
}
},

"Version": {
"target": "com.amazonaws.licensemanager#String",

```
            "traits": {
                "smithy.api#documentation": "<p>New version of the license.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CreateToken": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateTokenResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },

  {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
```

"smithy.api#documentation": " Creates a long-lived token. \n A refresh token is a JWT token used to get an access token. With an access token,\n you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n call License Manager to manage the specified license. "
}
},
"com.amazonaws.licensemanager#CreateTokenRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n JWT token. ",
"smithy.api#required": {}
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n License Manager does not check whether the roles are in use. "
}
},
"ExpirationInDays": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Token expiration, in days, counted from token creation. The default is 365 days. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller to be included in the JWT token. The data is mapped\n to the amr claim of the JWT token. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Idempotency token, valid for 10 minutes. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CreateTokenResponse": {

"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. "
}
},
"TokenType": {
"target": "com.amazonaws.licensemanager#TokenType",
"traits": {
"smithy.api#documentation": " Token type. "
}
},
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token,
encoded as a JWT token. "
}
}
}
},
"com.amazonaws.licensemanager#DateTime": {
"type": "timestamp"
},
"com.amazonaws.licensemanager#DatetimeRange": {
"type": "structure",
"members": {
"Begin": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Start of the time range. ",
"smithy.api#required": {}
}
},
"End": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " End of the time range. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a time range, in ISO8601-UTC
format. "
}
},

"com.amazonaws.licensemanager#DeleteGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

  },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": " Deletes the specified grant. "
    }
},
"com.amazonaws.licensemanager#DeleteGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
                "smithy.api#required": {}
            }
        },
        "StatusReason": {
            "target": "com.amazonaws.licensemanager#StatusReasonMessage",

"traits": {

"smithy.api#documentation": " The Status reason for the delete request. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the grant. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#DeleteGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation":
" Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
}
},
"com.amazonaws.licensemanager#DeleteLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
},
"errors": [
{

```
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Deletes the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license configuration.</p> \n          <p>You cannot delete a license configuration
 that is in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified report generator. \n This action deletes the report generator, which stops it from generating future reports.\n The action cannot be reversed. It has no effect on the previous reports from this generator. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to be deleted. ",
"smithy.api#required": {}
}
}
}
},

"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#DeleteLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},

"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#DeleteLicenseResponse":
{
"type": "structure",
"members": {
"Status": {
"target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"DeletionDate": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date when the license is deleted. "
}
}
}
},
"com.amazonaws.licensemanager#DeleteToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteTokenResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
        }

    },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#DigitalSignatureMethod": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "JWT_PS384",
                    "name": "JWT_PS384"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#Entitlement": {
        "type": "structure",
```

"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement resource. Use only if the unit is None. "
}
},
"MaxCount": {
"target": "com.amazonaws.licensemanager#Long",
"traits": {
"smithy.api#documentation": " Maximum entitlement count. Use if the unit is not None. "
}
},
"Overage": {
"target": "com.amazonaws.licensemanager#BoxBoolean",

"traits": {
"smithy.api#documentation": " Indicates whether overages are allowed. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementUnit",
"traits": {
"smithy.api#documentation": " Entitlement unit. ",
"smithy.api#required": {}
}
},
"AllowCheckIn": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether check-ins are allowed. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a resource entitled for use with a license. "
}
},
"com.amazonaws.licensemanager#EntitlementData": {
"type": "structure",

```
        "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement data name.</p>",
              "smithy.api#required": {}
            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement data value.</p>"
            }
          },
          "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement data unit.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Data associated
with an entitlement resource.</p>"
        }
      },
      "com.amazonaws.licensemanager#EntitlementDataList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#EntitlementData"
        }
      },
      "com.amazonaws.licensemanager#EntitlementDataUnit": {
        "type": "string",
        "traits": {
          "smithy.api#enum": [
            {
              "value": "Count",
              "name": "COUNT"
            },
            {
              "value": "None",
              "name": "NONE"
            },
            {
              "value": "Seconds",
              "name": "SECONDS"
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},
{
"value": "Microseconds",
"name": "MICROSECONDS"
},
{

"value": "Milliseconds",
"name": "MILLISECONDS"
},
{
"value": "Bytes",
"name": "BYTES"
},
{
"value": "Kilobytes",
"name": "KILOBYTES"
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"value": "Megabytes",
"name": "MEGABYTES"
},
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"value": "Gigabytes",
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},
{
"value": "Terabytes",
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"value": "Kilobits",
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},
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"value": "Megabits",
"name": "MEGABITS"
},
{
"value": "Gigabits",
"name": "GIGABITS"
},
{
"value": "Terabits",

"name": "TERABITS"
},
{
"value": "Percent",
"name": "PERCENT"
},
{
"value": "Bytes/Second",
"name": "BYTES_PER_SECOND"
},
{
"value": "Kilobytes/Second",
"name": "KILOBYTES_PER_SECOND"
},
{
"value": "Megabytes/Second",
"name": "MEGABYTES_PER_SECOND"

},
{
"value": "Gigabytes/Second",
"name": "GIGABYTES_PER_SECOND"
},
{
"value": "Terabytes/Second",
"name": "TERABYTES_PER_SECOND"
},
{
"value": "Bits/Second",
"name": "BITS_PER_SECOND"
},
{
"value": "Kilobits/Second",
"name": "KILOBITS_PER_SECOND"
},
{
"value": "Megabits/Second",
"name": "MEGABITS_PER_SECOND"
},
{
"value": "Gigabits/Second",
"name": "GIGABITS_PER_SECOND"
},
{
"value": "Terabits/Second",

"name": "TERABITS_PER_SECOND"
},

```
            {
                "value": "Count/Second",
                "name": "COUNT_PER_SECOND"
            }
        ]
    }
},
"com.amazonaws.licensemanager#EntitlementList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Entitlement"
    }
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#EntitlementUnit": {

 "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "Count",
                "name": "COUNT"
            },
            {
                "value": "None",
                "name": "NONE"
            },
            {
                "value": "Seconds",
                "name": "SECONDS"
            },
            {
                "value": "Microseconds",
                "name": "MICROSECONDS"
            },
            {
```

"value": "Milliseconds",
"name": "MILLISECONDS"
},
{
"value": "Bytes",
"name": "BYTES"
},
{
"value": "Kilobytes",
"name": "KILOBYTES"

},
{
"value": "Megabytes",
"name": "MEGABYTES"
},
{
"value": "Gigabytes",
"name": "GIGABYTES"
},
{
"value": "Terabytes",
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},
{
"value": "Terabits",
"name": "TERABITS"
},
{
"value": "Percent",
"name": "PERCENT"
},

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            {
              "value": "Bytes/Second",
              "name": "BYTES_PER_SECOND"
            },
            {
              "value": "Kilobytes/Second",
              "name": "KILOBYTES_PER_SECOND"
            },
            {
              "value": "Megabytes/Second",
              "name": "MEGABYTES_PER_SECOND"
            },
            {
              "value": "Gigabytes/Second",
              "name": "GIGABYTES_PER_SECOND"
            },
            {
              "value": "Terabytes/Second",
              "name": "TERABYTES_PER_SECOND"
            },
            {

    "value": "Bits/Second",
              "name": "BITS_PER_SECOND"
            },
            {
              "value": "Kilobits/Second",
              "name": "KILOBITS_PER_SECOND"
            },
            {
              "value": "Megabits/Second",
              "name": "MEGABITS_PER_SECOND"
            },
            {
              "value": "Gigabits/Second",
              "name": "GIGABITS_PER_SECOND"
            },
            {
              "value": "Terabits/Second",
              "name": "TERABITS_PER_SECOND"
            },
            {
              "value": "Count/Second",
              "name": "COUNT_PER_SECOND"
            }
          ]
        }
      },
```

```
    "com.amazonaws.licensemanager#EntitlementUsage": {
        "type": "structure",

"members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ConsumedValue": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxCount": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
                }
            },
            "Unit": {
                "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
                 "traits": {
                    "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementUsageList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
        },
        "output": {
```

"target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Extends the expiration date for license consumption. "
}
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",
"smithy.api#required": {}
}
},
"DryRun": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#documentation": " Checks whether you have the required permissions for the action, without actually making the request. Provides an error response if you do not have the required permissions. "
}
}
}

```
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
    "type": "structure",

  "members": {
        "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
            }
        },
        "Expiration": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#FailedDependencyException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        },
        "ErrorCode": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },

 "traits": {
        "aws.protocols#awsQueryError": {
            "code": "FailedDependency",
            "httpResponseCode": 424
        },
        "smithy.api#documentation": "<p>A dependency required to run the API is missing.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 424
    }
},
"com.amazonaws.licensemanager#Filter": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#FilterName",
            "traits": {
                "smithy.api#documentation": "<p>Name of the filter. Filter names are case-sensitive.</p>"
            }
```

```
            },
            "Values": {
                "target": "com.amazonaws.licensemanager#FilterValues",
                "traits": {
                    "smithy.api#documentation": "<p>Filter values. Filter
values are case-sensitive.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A filter name and value pair that is used to return more specific results
from a\n        describe operation. Filters can be used to match a set of resources by specific criteria,\n        such as
tags, attributes, or IDs.</p>"
        }
    },
    "com.amazonaws.licensemanager#FilterLimitExceededException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "FilterLimitExceeded",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
            "smithy.api#error":
"client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#FilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Filter"
        }
    },
    "com.amazonaws.licensemanager#FilterName": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#FilterValue": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#FilterValues": {
        "type": "list",
        "member": {
```

"target": "com.amazonaws.licensemanager#FilterValue",
"traits": {
"smithy.api#xmlName": "item"
}
}
},
"com.amazonaws.licensemanager#Filters": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter",
"traits": {
"smithy.api#xmlName":
"item"
}
}
},
"com.amazonaws.licensemanager#GetAccessToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"

}
],
"traits": {
"smithy.api#documentation": " Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access tokens\n are valid for one hour. "
}
},
"com.amazonaws.licensemanager#GetAccessTokenRequest": {

"type": "structure",
"members": {
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token, encoded as a JWT token. ",
"smithy.api#required": {}
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Token properties to validate against those present in the JWT token. "
}

}
}
},
"com.amazonaws.licensemanager#GetAccessTokenResponse": {
"type": "structure",
"members": {
"AccessToken": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Temporary access token. "
}
}
}
},
"com.amazonaws.licensemanager#GetGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},

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        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
                "smithy.api#documentation": "<p>Grant details.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",
```

```
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license
configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId":
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            },
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>"
                }
            },
```

"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation":
" Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension for which the licenses are counted. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of available licenses. "
}
},
"LicenseCountHardLimit": {

"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Sets the number of available licenses as a hard limit. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses assigned to resources. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License configuration status. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the

owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList":
{
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is
uninstalled. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
"type":
"operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"

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        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets
information about the specified license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license type conversion task to retrieve information
on.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license
type conversion task.</p>"
                }
```

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            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the resources the license
conversion task is associated with.</p>"
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license type converted from.</p>"
                }
            },
            "DestinationLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license type converted to.</p>"

        }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
                }
            },
            "StartTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
                }
            },
            "LicenseConversionTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                 "traits": {
                    "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
                }
            },
            "EndTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
```

"smithy.api#documentation": " Time at which the license type conversion task was completed. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified report generator. "
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {

"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"ReportGenerator": {
"target": "com.amazonaws.licensemanager#ReportGenerator",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic
reports about your license configurations. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseResponse": {
"type": "structure",
"members": {
"License": {
"target":
"com.amazonaws.licensemanager#License",
"traits": {
"smithy.api#documentation": " License details. "
}

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        }
    }
},
"com.amazonaws.licensemanager#GetLicenseUsage": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#GetLicenseUsageRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanager#GetLicenseUsageResponse":
```

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{
        "type": "structure",
        "members": {
            "LicenseUsage": {
                "target": "com.amazonaws.licensemanager#LicenseUsage",
                "traits": {
                    "smithy.api#documentation": "<p>License usage details.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },

 {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

"smithy.api#documentation": " Regional S3 bucket path for storing reports, license trail event data, discovery data,\n and so on. "
}

},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " SNS topic configured to receive notifications from License Manager. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Indicates whether Organizations is integrated with License Manager for\n cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether cross-account discovery is enabled. "
}

},
"LicenseManagerResourceShareArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource share. The License Manager management account \n provides member accounts with access to this share. "
}
}
}
},
"com.amazonaws.licensemanager#Grant": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"ParentArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Parent ARN. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. ",
"smithy.api#required": {}
}
},
"GranteePrincipalArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " The grantee principal ARN. ",

"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"Version": {

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    "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>",
                "smithy.api#required": {}
            }
        },
        "GrantedOperations": {
            "target": "com.amazonaws.licensemanager#AllowedOperationList",
            "traits": {
                "smithy.api#documentation": "<p>Granted operations.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes a grant.</p>"
    }
},
"com.amazonaws.licensemanager#GrantList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Grant"
    }
},
"com.amazonaws.licensemanager#GrantStatus": {
    "type": "string",

  "traits": {
        "smithy.api#enum": [
            {
                "value": "PENDING_WORKFLOW",
                "name": "PENDING_WORKFLOW"
            },
            {
                "value": "PENDING_ACCEPT",
                "name": "PENDING_ACCEPT"
            },
            {
                "value": "REJECTED",
                "name": "REJECTED"
            },
            {
                "value": "ACTIVE",
                "name": "ACTIVE"
            },
            {
                "value": "FAILED_WORKFLOW",
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                "name": "FAILED_WORKFLOW"
              },
              {
                "value": "DELETED",
                "name": "DELETED"
              },
              {
                "value": "PENDING_DELETE",
                "name": "PENDING_DELETE"
               },
              {
                "value": "DISABLED",
                "name": "DISABLED"
              },
              {
                "value": "WORKFLOW_COMPLETED",
                "name": "WORKFLOW_COMPLETED"
              }
            ]
          }
        },
        "com.amazonaws.licensemanager#GrantedLicense": {
          "type": "structure",
          "members": {
            "LicenseArn": {
              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
              }
            },
            "LicenseName": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>License name.</p>"
              }

      },
            "ProductName": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Product name.</p>"
              }
            },
            "ProductSKU": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Product SKU.</p>"
              }
```

```
            },
            "Issuer": {
                "target": "com.amazonaws.licensemanager#IssuerDetails",
                "traits": {
                    "smithy.api#documentation": "<p>Granted license issuer.</p>"
                }
            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Home Region of the granted license.</p>"

            }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Granted license status.</p>"
                }
            },
            "Validity": {
                "target": "com.amazonaws.licensemanager#DatetimeRange",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time range during which the granted license is valid, in
ISO8601-UTC format.</p>"
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Granted license beneficiary.</p>"
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementList",
                 "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>"
                }
            },
            "ConsumptionConfiguration": {
                "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
                }
            },
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
```

"smithy.api#documentation": " Granted license metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Creation time of the granted license. "

}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Version of the granted license. "
}
},
"ReceivedMetadata": {
"target": "com.amazonaws.licensemanager#ReceivedMetadata",
"traits": {
"smithy.api#documentation": " Granted license received metadata. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a license that is granted to a grantee. "
}
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#GrantedLicense"
}
},
"com.amazonaws.licensemanager#ISO8601DateTime":
{
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
}
},
"com.amazonaws.licensemanager#Integer": {
"type": "integer",
"traits": {

"smithy.api#box": {}
}
},
"com.amazonaws.licensemanager#InvalidParameterValueException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidParameterValueProvided",

"httpResponseCode": 400
},
"smithy.api#documentation": " One or more parameter values are not valid. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#InvalidResourceStateException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidResourceState",
"httpResponseCode": 400
},
"smithy.api#documentation": " License Manager cannot allocate a license to a resource because of its state. \n For example, you cannot allocate a license to an instance in the process of shutting\n down. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#InventoryFilter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the filter. ",
"smithy.api#required": {}

```
                }
            },
            "Condition": {
                "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
                "traits": {
                    "smithy.api#documentation": "<p>Condition of the filter.</p>",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Value
of the filter.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>An inventory filter.</p>"
        }
    },
    "com.amazonaws.licensemanager#InventoryFilterCondition": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "EQUALS",
                    "name": "EQUALS"
                },
                {
                    "value": "NOT_EQUALS",
                    "name": "NOT_EQUALS"
                },
                {
                    "value": "BEGINS_WITH",
                    "name": "BEGINS_WITH"
                },
                {
                    "value": "CONTAINS",
                    "name": "CONTAINS"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#InventoryFilterList":
{
        "type": "list",
        "member": {
```

"target": "com.amazonaws.licensemanager#InventoryFilter"
}
},
"com.amazonaws.licensemanager#Issuer": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. ",
"smithy.api#required": {}
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
}
},
"traits": {

"smithy.api#documentation": " Details about the issuer of a license. "
}
},
"com.amazonaws.licensemanager#IssuerDetails": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. "
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

```
                "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
    }
},
"com.amazonaws.licensemanager#License": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License name.</p>"
            }
        },
        "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
                "smithy.api#documentation": "<p>Product name.</p>"
            }
        },
        "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product SKU.</p>"
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>License issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the license.</p>"
            }
        },
        "Status": {
```

"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "

}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " License metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License creation time. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits":
{
"smithy.api#documentation": " License version. "

```
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
    "type": "structure",
    "members": {
        "LicenseConfigurationId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
            }
        },
        "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }

  },
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the license configuration.</p>"
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
                "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
            }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {

                "smithy.api#documentation": "<p>License rules.</p>"
            }
        },
```

"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Number of available licenses as a hard limit. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "

}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the license configuration. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the license configuration's owner. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",

"traits": {
"smithy.api#documentation": " Summaries for licenses consumed by various resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {

"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource consuming licenses. "
}
},

"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was associated with the resource. "
}
},
"AmiAssociationScope":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an association with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
}
},
"com.amazonaws.licensemanager#LicenseConfigurationStatus": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "AVAILABLE",
"name": "AVAILABLE"
},
{
"value": "DISABLED",
"name": "DISABLED"
}
]
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsage": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "

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            }
        },
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Type of resource.</p>"
            }
        },
        "ResourceStatus": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

  "smithy.api#documentation": "<p>Status of the resource.</p>"
            }
        },
        "ResourceOwnerId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
            }
        },
        "AssociationTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time when the license configuration was initially associated with
the resource.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
            }
        }

    },
      "traits": {
          "smithy.api#documentation": "<p>Details about the usage of a resource associated with a license
configuration.</p>"
      }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
      "type": "list",
      "member": {
          "target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
      }
    },
    "com.amazonaws.licensemanager#LicenseConfigurations": {
```

"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfiguration"
}
},
"com.amazonaws.licensemanager#LicenseConversionContext": {
"type": "structure",
"members": {
"UsageOperation": {
"target": "com.amazonaws.licensemanager#UsageOperation",
"traits": {
"smithy.api#documentation": " The Usage operation value that corresponds
to the license type you are converting your resource from. For more information about which platforms correspond
to which usage operation values see <a href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-
info-fields.html#billing-info\">Sample data: usage operation by platform\n \n "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTask": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the license type conversion task. "
}
},
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource associated
with the license type\n conversion task. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted
from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",

"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted to. "
}
},

"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " The status of the conversion task. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was started at. "
}
},
"LicenseConversionTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " The time the usage operation value of the resource was changed. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was completed. "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTaskId": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50

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            },
            "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
        "type":
"string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "IN_PROGRESS",
                    "name": "IN_PROGRESS"
                },
                {
                    "value": "SUCCEEDED",
                    "name": "SUCCEEDED"
                },
                {
                    "value": "FAILED",
                    "name": "FAILED"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTasks": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTask"
        }
    },
    "com.amazonaws.licensemanager#LicenseCountingType": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "vCPU",
                    "name": "VCPU"

                },
                {
                    "value": "Instance",
                    "name": "INSTANCE"
                },
                {
                    "value": "Core",
                    "name": "CORE"
                },
                {
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                "value": "Socket",
                "name": "SOCKET"
            }
        ]
    }
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "PENDING_DELETE",
                "name": "PENDING_DELETE"
            },
            {
                "value": "DELETED",
                "name": "DELETED"
            }
        ]
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
     "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {
    "type": "structure",
    "members": {
        "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
        },
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Resource type.</p>"
            }
        },
        "ErrorMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Error message.</p>"
```

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        }
          },
          "FailureTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Failure time.</p>"
            }
          },
          "OperationName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Name of the operation.</p>"
            }
          },
          "ResourceOwnerId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the
resource.</p>"
            }
          },
          "OperationRequestedBy": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

         "smithy.api#documentation": "<p>The requester is \"License Manager Automated Discovery\".</p>"
            }
          },
          "MetadataList": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
              "smithy.api#documentation": "<p>Reserved.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes the failure of a license operation.</p>"
        }
      },
      "com.amazonaws.licensemanager#LicenseOperationFailureList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#LicenseOperationFailure"
        }
      },
      "com.amazonaws.licensemanager#LicenseSpecification": {
        "type": "structure",
        "members": {
```

"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseSpecification"
}
},
"com.amazonaws.licensemanager#LicenseStatus": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "AVAILABLE",
"name": "AVAILABLE"
},
{
"value": "PENDING_AVAILABLE",
"name": "PENDING_AVAILABLE"
},
{
"value": "DEACTIVATED",
"name": "DEACTIVATED"
},
{
"value": "SUSPENDED",
"name": "SUSPENDED"
},
{

"value": "EXPIRED",
"name": "EXPIRED"
},
{
"value": "PENDING_DELETE",
"name": "PENDING_DELETE"
},
{

"value": "DELETED",
"name": "DELETED"
}
]
}
},
"com.amazonaws.licensemanager#LicenseUsage": {
"type": "structure",
"members": {
"EntitlementUsages": {
"target": "com.amazonaws.licensemanager#EntitlementUsageList",
"traits": {
"smithy.api#documentation": " License entitlement usages. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the entitlement usage associated with a license. "
}
},
"com.amazonaws.licensemanager#LicenseUsageException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {

"aws.protocols#awsQueryError": {
"code": "LicenseUsageFailure",
"httpResponseCode": 412
},
"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},

"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the resource associations for the specified license configuration. \n Resource associations need not consume licenses from a license configuration. \n For example, an AMI or a stopped instance might not consume a license (depending on \n the license rules). "
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",

"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationAssociations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license configuration. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

             "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants distributed for the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
        "type": "structure",
        "members": {
            "GrantArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n
        <code>LicenseArn</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>GrantStatus</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>GranteePrincipalARN</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>ProductSKU</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>LicenseIssuerName</code>\n                </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
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            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
        "type": "structure",
        "members": {
          "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
            "traits": {
              "smithy.api#documentation": "<p>Distributed grant details.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {

"type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
```

```
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the license configuration operations that failed.</p>"
    }
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
    "type": "structure",
    "members": {
        "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse": {
    "type": "structure",
    "members": {
        "LicenseOperationFailureList": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
            "traits": {
                "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListLicenseConfigurations":
```

{
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},

{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configurations for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the license configurations. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}

```
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n                Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n                Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n
                <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement
is used. \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n
</li>\n            <li>\n                <p>\n                <code>usagelimitExceeded</code> - A Boolean value that indicates
whether the available licenses have been exceeded. \n                Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurations": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurations",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configurations.</p>"

                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasks": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
        },
```

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        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target":
"com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
        "type": "structure",
        "members": {
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                 "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>\n        Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n      </p>"
                }
            }
        }
```

```
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTasks": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configuration tasks for your
account.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },

    {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
```

"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the report generators for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest": {
"type":
"structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported:
\n \n \n \n <code>LicenseConfigurationArn</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to
return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
"type": "structure",
"members": {
"ReportGenerators": {
"target": "com.amazonaws.licensemanager#ReportGeneratorList",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic reports about your license
configurations. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
"type": "operation",
"input":
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Describes the
license configurations for the specified resource. "
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a resource that has an
associated license configuration. ",
"smithy.api#required": {}
}

```
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",

         "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {
        "LicenseSpecifications": {
            "target": "com.amazonaws.licensemanager#LicenseSpecifications",
            "traits": {
                "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
     "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
```

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            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation":
"<p>Lists all versions of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum
number of results to return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
        "type": "structure",
        "members": {
            "Licenses": {
                "target": "com.amazonaws.licensemanager#LicenseList",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
```

```
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the licenses for your account.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicensesRequest": {
    "type": "structure",
    "members": {
        "LicenseArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
```

```
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n              <p>\n                <code>Beneficiary</code>\n              </p>\n
        </li>\n            <li>\n              <p>\n                <code>ProductSKU</code>\n              </p>\n            </li>\n
    <li>\n              <p>\n
        <code>Fingerprint</code>\n              </p>\n            </li>\n            <li>\n              <p>\n
<code>Status</code>\n              </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicensesResponse": {
        "type": "structure",
        "members": {
            "Licenses": {

    "target": "com.amazonaws.licensemanager#LicenseList",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrants": {
        "type": "operation",
        "input": {
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"target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists grants that are received but not accepted. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
"type": "structure",

"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n

```
</li>\n <li>\n <p>\n <code>LicenseIssuerName</code>\n </p>\n
</li>\n <li>\n <p>\n <code>LicenseArn</code>\n </p>\n </li>\n
<li>\n <p>\n
<code>GrantStatus</code>\n </p>\n </li>\n <li>\n <p>\n
<code>GranterAccountId</code>\n </p>\n </li>\n </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
        "type": "structure",
        "members": {
          "Grants": {

          "target": "com.amazonaws.licensemanager#GrantList",
            "traits": {
              "smithy.api#documentation": "<p>Received grant details.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListReceivedLicenses": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
        },
        "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"

 },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists received licenses.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
        "type": "structure",

   "members": {
            "LicenseArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>ProductSKU</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                    <code>Status</code>\n                </p>\n            </li>\n
<li>\n                <p>\n                    <code>Fingerprint</code>\n                </p>\n            </li>\n            <li>\n
<p>\n                    <code>IssuerName</code>\n
            </p>\n            </li>\n            <li>\n                <p>\n                    <code>Beneficiary</code>\n                </p>\n
        </li>\n        </ul>"
                }
```

```
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
        "type": "structure",
        "members": {
            "Licenses": {

"target": "com.amazonaws.licensemanager#GrantedLicenseList",
                "traits": {
                    "smithy.api#documentation": "<p>Received license details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventory": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"

  },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#FailedDependencyException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryRequest": {

        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#InventoryFilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>account_id</code>
 - The ID of the Amazon Web Services account that owns the resource.\n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n
    <code>application_name</code> - The name of the application. \n                Logical operators are
<code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n            </li>\n            <li>\n                <p>\n
    <code>license_included</code> - The type of license included. \n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.\n                Possible values are <code>sql-server-
```

enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n \n <code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n \n \n \n <code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account). \n \n "
}
}
}
},
"com.amazonaws.licensemanager#ListResourceInventoryResponse": {
"type": "structure",
"members": {
"ResourceInventoryList": {
"target": "com.amazonaws.licensemanager#ResourceInventoryList",
"traits":
{
"smithy.api#documentation": " Information about the resources. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListTagsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the tags for the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required":
 {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the tags.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
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```
            },
            {
                "target":
 "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
            "TokenIds": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Token IDs.</p>"
                }
            },
            "Filters": {
                "target":
 "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
    <ul>\n            <li>\n                <p>\n                    <code>LicenseArns</code>\n                </p>\n            </li>\n
</ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
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```
            }
        }
    },
    "com.amazonaws.licensemanager#ListTokensResponse":
{
        "type": "structure",
        "members": {
            "Tokens": {
                "target": "com.amazonaws.licensemanager#TokenList",
                "traits": {
                    "smithy.api#documentation": "<p>Received token details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
```

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        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying license\n        consumption details by resource
 at a selected point in time. Use this action to audit the\n        current license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {

                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>resourceArn</code> - The ARN of the license configuration resource.\n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>).
 \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>resourceAccount</code> - The ID of the account that owns the resource. \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
                }
            }
```

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    }
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
    "type": "structure",
    "members": {
        "LicenseConfigurationUsageList": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license configurations.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#Location": {
    "type": "string"
},
"com.amazonaws.licensemanager#Long": {
    "type": "long",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummary": {
    "type": "structure",
    "members": {
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
            }
        },
        "AssociationCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                 "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
},
```

"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {
    "type": "integer",
    "traits": {
        "smithy.api#box": {},
        "smithy.api#range": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": " The key name. "
            }
        },
        "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": " The value. "
            }
        }
    },
    "traits": {

"smithy.api#documentation": " Describes key/value pairs. "
}

},
"com.amazonaws.licensemanager#MetadataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Metadata"
}
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#OrganizationConfiguration": {
"type": "structure",
"members": {
"EnableIntegration": {
"target": "com.amazonaws.licensemanager#Boolean",

"traits": {
"smithy.api#documentation": " Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {
"min": 1,

"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> -

The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n
<code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n
<code>ols</code> | \n <code>olap</code>. \n \n ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information for a license configuration. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
"type": "structure",
"members": {
"ProductInformationFilterName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Filter name. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterValue": {
"target":
"com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " Filter value. "
}
},
"ProductInformationFilterComparator": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Logical operator. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information filters. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ProductInformationFilter"

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        }
    },
    "com.amazonaws.licensemanager#ProductInformationList": {
        "type": "list",

       "member": {
            "target": "com.amazonaws.licensemanager#ProductInformation"
        }
    },
    "com.amazonaws.licensemanager#ProvisionalConfiguration": {
        "type": "structure",
        "members": {
            "MaxTimeToLiveInMinutes": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#RateLimitExceededException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"

       }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "RateLimitExceeded",
                "httpResponseCode": 429
            },
            "smithy.api#documentation": "<p>Too many requests have been submitted. Try again after a brief
wait.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 429
        }
    },
    "com.amazonaws.licensemanager#ReceivedMetadata": {
        "type": "structure",
        "members": {
            "ReceivedStatus": {
                "target": "com.amazonaws.licensemanager#ReceivedStatus",
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"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {

"smithy.api#documentation": " Received status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations. "
}
}
},
"traits": {
"smithy.api#documentation": " Metadata associated with received licenses and grants. "
}
},
"com.amazonaws.licensemanager#ReceivedStatus": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "PENDING_WORKFLOW",
"name": "PENDING_WORKFLOW"
},
{
"value": "PENDING_ACCEPT",
"name": "PENDING_ACCEPT"
},
{
"value": "REJECTED",
"name": "REJECTED"
},
{
"value": "ACTIVE",
"name": "ACTIVE"
},
{
"value": "FAILED_WORKFLOW",
"name": "FAILED_WORKFLOW"
},
{
"value": "DELETED",

"name": "DELETED"
},
{
"value": "DISABLED",
"name": "DISABLED"
},
{
"value": "WORKFLOW_COMPLETED",
"name": "WORKFLOW_COMPLETED"
}
]
}
},
"com.amazonaws.licensemanager#RedirectException": {
"type": "structure",
"members": {

"Location": {
"target": "com.amazonaws.licensemanager#Location",
"traits": {
"smithy.api#httpHeader": "Location"
}
},
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " This is not the correct Region for the resource. Try again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 308
}
},
"com.amazonaws.licensemanager#RejectGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#RejectGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#RejectGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

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            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest":
{
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
```

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            }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#RenewType": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "None",
                    "name": "NONE"
                },
                {
                    "value": "Weekly",
                    "name": "WEEKLY"
                },
                {
                    "value": "Monthly",
                    "name": "MONTHLY"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#ReportContext": {
        "type": "structure",
        "members": {

  "licenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration that
this generator reports on.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details of the license configuration that this generator reports on.</p>"
        }
    },
    "com.amazonaws.licensemanager#ReportFrequency": {
        "type": "structure",
```

"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "

}
},
"period": {
"target": "com.amazonaws.licensemanager#ReportFrequencyType",
"traits": {
"smithy.api#documentation": " Time period between each report. The period can be daily, weekly, or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"com.amazonaws.licensemanager#ReportFrequencyType": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "DAY",
"name": "DAY"
},
{
"value": "WEEK",
"name": "WEEK"
},
{
"value": "MONTH",

"name": "MONTH"
}
]
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the report generator. "

```
        }
    },
    "ReportType": {
        "target": "com.amazonaws.licensemanager#ReportTypeList",
        "traits": {
            "smithy.api#documentation": "<p>Type of reports that are generated.</p>"
        }
    },
    "ReportContext": {
        "target": "com.amazonaws.licensemanager#ReportContext",
        "traits": {
            "smithy.api#documentation": "<p>License configuration type for this generator.</p>"
         }
    },
    "ReportFrequency": {
        "target": "com.amazonaws.licensemanager#ReportFrequency",
        "traits": {
            "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
        }
    },
    "LicenseManagerReportGeneratorArn": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>"
        }
    },
    "LastRunStatus": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Status of the last report generation attempt.</p>"
        }
    },
    "LastRunFailureReason": {

  "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Failure message for the last report generation attempt.</p>"
        }
    },
    "LastReportGenerationTime": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Time the last report was generated at.</p>"
        }
    },
    "ReportCreatorAccount": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
```

"smithy.api#documentation": " The Amazon Web Services account ID used to create the report generator. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the report was created. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags associated with the report generator. "
}
}
},

"traits": {
"smithy.api#documentation": " Describe the details of a report generator. "
}
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportGenerator"
}
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100

```
        }
    }
},
"com.amazonaws.licensemanager#ReportType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "LicenseConfigurationSummaryReport",
                "name": "LICENSE_CONFIGURATION_SUMMARY_REPORT"
            },
            {
                "value": "LicenseConfigurationUsageReport",
                 "name": "LICENSE_CONFIGURATION_USAGE_REPORT"
            }
        ]
    }
},
"com.amazonaws.licensemanager#ReportTypeList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportType"
    }
},
"com.amazonaws.licensemanager#ResourceInventory": {
    "type": "structure",
    "members": {
        "ResourceId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>ID of the resource.</p>"
            }
        },
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Type of resource.</p>"
            }
        },
         "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
        },
        "Platform": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Platform of the resource. "
}
},
"PlatformVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Platform version of the resource in the inventory. "
}
},
"ResourceOwningAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation":
" ID of the account that owns the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a resource. "
}
},
"com.amazonaws.licensemanager#ResourceInventoryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ResourceInventory"
}
},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ResourceLimitExceeded",
"httpResponseCode": 400
},
"smithy.api#documentation": " Your resource limits have
been exceeded. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
"type": "structure",
"members": {

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        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "InvalidResource.NotFound",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The resource cannot be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "EC2_INSTANCE",
                 "name": "EC2_INSTANCE"
            },
            {
                "value": "EC2_HOST",
                "name": "EC2_HOST"
            },
            {
                "value": "EC2_AMI",
                "name": "EC2_AMI"
            },
            {
                "value": "RDS",
                "name": "RDS"
            },
            {
                "value": "SYSTEMS_MANAGER_MANAGED_INSTANCE",
                "name": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
            }
        ]
    }
},
"com.amazonaws.licensemanager#S3Location": {
    "type": "structure",
    "members": {
        "bucket": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the S3 bucket
```

reports are published to. "
}
},
"keyPrefix": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Prefix of the S3 bucket reports are published to. "
}
}
},
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InternalError",
"httpResponseCode": 500
},
"smithy.api#documentation": " The server experienced an internal error. Try again. ",
"smithy.api#error": "server",
"smithy.api#httpError": 500
}
},
"com.amazonaws.licensemanager#SignedToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 4096
}
}
},
"com.amazonaws.licensemanager#StatusReasonMessage": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 400
},

```
            "smithy.api#pattern": "^[\\s\\S]+$"
        }
    },
    "com.amazonaws.licensemanager#String": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"

      }
    },
    "com.amazonaws.licensemanager#Tag": {
        "type": "structure",
        "members": {
            "Key": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag key.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#TagList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Tag"
        }
    },
    "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
```

"input": {
"target": "com.amazonaws.licensemanager#TagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#TagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},

{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Adds the specified tags to the specified license configuration. "
}
},
"com.amazonaws.licensemanager#TagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license
configuration. ",
"smithy.api#required": {}
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " One or more tags. ",
"smithy.api#required":
{}
}
}
}

```
    },
    "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
            "TokenType": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>"
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "ExpirationTime": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Token expiration time, in ISO8601-UTC format.</p>"
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Data specified by the caller.</p>"
                }
            },
            "RoleArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the roles included in the
token.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a token. "
}
},
"com.amazonaws.licensemanager#TokenList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#TokenData"
}
},
"com.amazonaws.licensemanager#TokenString": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 4096
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#TokenType": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "REFRESH_TOKEN",
"name": "REFRESH_TOKEN"
}
]
}
},
"com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The digital signature method is unsupported. Try your request again. ",

"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#UntagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UntagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Removes the specified tags from the specified license configuration. "
}
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",

```
            "traits": {
                "smithy.api#documentation": "<p>Keys identifying the tags to remove.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
    "type": "structure",
    "members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {

    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
    }
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
    "type": "structure",
    "members": {
        "LicenseConfigurationArn": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"LicenseConfigurationStatus": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
"traits": {
"smithy.api#documentation": " New status of the license configuration. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " New license rule. The only rule that you can add after you create a license\n configuration is licenseAffinityToHost. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " New number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}

},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",

"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},

{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates a report generator. \n After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated. "

}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to update. ",
"smithy.api#required": {}
}
},
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types are supported: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " The report context. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",

"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#InvalidResourceStateException"

```
        },
            {
                "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p> \n        <p>You can update the license specifications of AMIs, instances, and
hosts.\n        You cannot update the license specifications for launch templates and CloudFormation templates, \n
  as they send license configurations to the operation that creates the resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
        "type": "structure",
         "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "AddLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
                }
            },
            "RemoveLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to remove.</p>"
                }
            }
         }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#UpdateServiceSettings": {
```

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Updates License Manager settings for the current Region. "
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
"type": "structure",
"members": {
"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon S3 bucket where the License Manager information is stored. "
}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {

"smithy.api#documentation": " Enables integration with Organizations for cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Activates cross-account discovery. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UsageOperation": {
"type":
"string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
}
}
},
"com.amazonaws.licensemanager#ValidationException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The provided input is not valid. Try your request again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
}
}
}

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string
```

```
 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 //
 Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
```

```
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err
!= nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
```

```
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return
 nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
```

```
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
```

```
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
 err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
```

```
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

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// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if
 err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
```

```
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}
```

1.4255 runtime-spec 1.0.2

1.4255.1 Available under license :

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1.4256 aws-sdk-go-v2-service-internal-presigned-url 1.9.3

1.4256.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
```

```
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
```

```
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
 nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
```

```
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}
```

```
type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
```

```
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
```

```
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
```

```
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack,
 options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil
 {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]
```

```
jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
     - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
       with:
         python-version: ${{ matrix.python-version }}
     # ScanCode
     - name: Self-configure scancode
       working-directory: ./scancode-toolkit
       run: ./scancode --help
     - name: Run Scan code on target
       run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
     - name: Run Scan code on pr ref
       run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
     # compare
     - name: License test
       run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
```

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
```

```
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {
```

```
 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
```

```
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
 middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
```

```
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
```

```
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}
```

AWS SDK for Go

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```
{
   "smithy": "1.0",
   "metadata": {
       "suppressions": [
           {
               "id": "HttpMethodSemantics",
               "namespace": "*"
           },
           {
               "id": "HttpResponseCodeSemantics",
               "namespace": "*"
           },
           {
               "id": "PaginatedTrait",
               "namespace": "*"
           },
           {
               "id": "HttpHeaderTrait",
               "namespace": "*"
           },
           {
               "id": "HttpUriConflict",
               "namespace": "*"
           },
           {
               "id": "Service",
               "namespace": "*"
```

```
        }
    ]
},
"shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
        "type": "service",
        "version": "2018-08-01",
        "operations": [
            {
                "target": "com.amazonaws.licensemanager#AcceptGrant"
            },

 {
                "target": "com.amazonaws.licensemanager#CheckInLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CheckoutLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateGrant"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateGrantVersion"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
             },
            {
                "target": "com.amazonaws.licensemanager#CreateLicenseVersion"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateToken"
            },
            {
                "target": "com.amazonaws.licensemanager#DeleteGrant"
            },
```

```
    {
      "target": "com.amazonaws.licensemanager#DeleteLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteToken"
    },
    {
      "target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

  },
    {
      "target": "com.amazonaws.licensemanager#GetAccessToken"
    },
    {
      "target": "com.amazonaws.licensemanager#GetGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseUsage"
    },
    {
      "target": "com.amazonaws.licensemanager#GetServiceSettings"
    },
    {
      "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
     },
    {
      "target": "com.amazonaws.licensemanager#ListDistributedGrants"
    },
    {
      "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
```

},
{
"target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
"target": "com.amazonaws.licensemanager#ListLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

"target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListResourceInventory"
},
{
"target": "com.amazonaws.licensemanager#ListTagsForResource"
},
{
"target": "com.amazonaws.licensemanager#ListTokens"
},
{
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#RejectGrant"
},
{
"target": "com.amazonaws.licensemanager#TagResource"
},
{
"target": "com.amazonaws.licensemanager#UntagResource"
},
{

"target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateServiceSettings"
}
],
"traits": {
"aws.api#service": {
"sdkId": "License Manager",
"arnNamespace": "license-manager",
"cloudFormationName": "LicenseManager",
"cloudTrailEventSource": "licensemanager.amazonaws.com",
"endpointPrefix":
"license-manager"
},
"aws.auth#sigv4": {
"name": "license-manager"
},
"aws.protocols#awsJson1_1": {},
"smithy.api#documentation": " License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers. ",
"smithy.api#title": "AWS License Manager",
"smithy.api#xmlNamespace": {
"uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
}
}
},
"com.amazonaws.licensemanager#AcceptGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#AcceptGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#AcceptGrantResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantRequest":
{
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant
```

status. "
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": " Grant version. "
            }
        }
    }
},
"com.amazonaws.licensemanager#AccessDeniedException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "ServiceAccessDenied",
            "httpResponseCode": 401
        },
        "smithy.api#documentation": " Access to resource denied. ",
        "smithy.api#error": "client",
        "smithy.api#httpError": 401
    }
},
"com.amazonaws.licensemanager#AllowedOperation":
{
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "CreateGrant",
                "name": "CREATE_GRANT"
            },
            {
                "value": "CheckoutLicense",
                "name": "CHECKOUT_LICENSE"
            },
            {
                "value": "CheckoutBorrowLicense",
                "name": "CHECKOUT_BORROW_LICENSE"
            },
            {
                "value": "CheckInLicense",
                "name": "CHECK_IN_LICENSE"

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            },
            {
                "value": "ExtendConsumptionLicense",
                "name": "EXTEND_CONSUMPTION_LICENSE"
            },
            {
                "value": "ListPurchasedLicenses",
                "name": "LIST_PURCHASED_LICENSES"
            },
            {
                "value": "CreateToken",
                "name": "CREATE_TOKEN"
            }
        ]
    }
},
"com.amazonaws.licensemanager#AllowedOperationList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#AllowedOperation"
    },
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 7
        }
    }
},
"com.amazonaws.licensemanager#Arn": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 2048
        },
        "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
    }
},
"com.amazonaws.licensemanager#ArnList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Arn"
    }
},
"com.amazonaws.licensemanager#AuthorizationException": {
    "type": "structure",
    "members": {
```

"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "AuthorizationFailure",
"httpResponseCode": 403
},
"smithy.api#documentation": " The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n policy associated with this account. ",
"smithy.api#error": "client",
"smithy.api#httpError": 403
}
},
"com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
"type": "structure",
"members": {
"LastRunTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time that automated discovery last ran. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes automated discovery. "
}
},
"com.amazonaws.licensemanager#Boolean": {
"type": "boolean"
},
"com.amazonaws.licensemanager#BorrowConfiguration": {
"type": "structure",
"members": {
"AllowEarlyCheckIn": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether early check-ins are allowed. ",
"smithy.api#required": {}
}
},
"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the borrow configuration, in minutes. ",
"smithy.api#required": {}

```
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
    }
},
"com.amazonaws.licensemanager#BoxBoolean": {
    "type": "boolean",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#BoxInteger": {
    "type": "integer",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#BoxLong": {

"type": "long",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#CheckInLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
```

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks in the specified license. Check in a license when it is no longer in use. "
}
},
"com.amazonaws.licensemanager#CheckInLicenseRequest": {
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",

"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
}
}
},
"com.amazonaws.licensemanager#CheckInLicenseResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks out the specified license for offline use. "
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The license must

use the borrow consumption configuration. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. Partial checkouts are not supported. ",
"smithy.api#required": {}
}
},
"DigitalSignatureMethod": {
"target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
"traits": {
"smithy.api#documentation": " Digital signature method. The possible value is JSON Web Signature (JWS) algorithm PS384.\n For more information, see RFC 7518 Digital Signature with RSASSA-PSS. ",
"smithy.api#required": {}
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",

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"traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
        }
    },
    "LicenseConsumptionToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>License consumption token.</p>"
        }
    },
    "EntitlementsAllowed": {
        "target": "com.amazonaws.licensemanager#EntitlementDataList",
        "traits": {
            "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
        }
    },
    "NodeId": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Node ID.</p>"
        }
    },
    "SignedToken": {

   "target": "com.amazonaws.licensemanager#SignedToken",
        "traits": {
            "smithy.api#documentation": "<p>Signed token.</p>"
        }
    },
    "IssuedAt": {
        "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
            "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
        }
    },
    "Expiration": {
        "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
            "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
        }
    },
    "CheckoutMetadata": {
        "target": "com.amazonaws.licensemanager#MetadataList",
        "traits": {
            "smithy.api#documentation":
"<p>Information about constraints.</p>"
        }
```

```
            }
        }
    },
    "com.amazonaws.licensemanager#CheckoutLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license.</p>"
        }
    },
```

"com.amazonaws.licensemanager#CheckoutLicenseRequest": {
"type": "structure",
"members": {
"ProductSKU":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. ",
"smithy.api#required": {}
}
},
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. ",
"smithy.api#required": {}
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Key fingerprint identifying the license. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",

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    "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        }
    }
  },
  "com.amazonaws.licensemanager#CheckoutLicenseResponse": {
    "type": "structure",
    "members": {
      "CheckoutType": {
        "target": "com.amazonaws.licensemanager#CheckoutType",
        "traits": {
          "smithy.api#documentation": "<p>Checkout type.</p>"
        }
      },
      "LicenseConsumptionToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>License consumption token.</p>"
        }
      },
      "EntitlementsAllowed": {
        "target": "com.amazonaws.licensemanager#EntitlementDataList",
        "traits": {
          "smithy.api#documentation":
"<p>Allowed license entitlements.</p>"
        }
      },
      "SignedToken": {
        "target": "com.amazonaws.licensemanager#SignedToken",
        "traits": {
          "smithy.api#documentation": "<p>Signed token.</p>"
        }
      },
      "NodeId": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Node ID.</p>"
        }
      },
      "IssuedAt": {
        "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
          "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
        }
      },
      "Expiration": {
```

"target": "com.amazonaws.licensemanager#ISO8601DateTime",

"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the checkout license. "
}
}
}
},
"com.amazonaws.licensemanager#CheckoutType": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "PROVISIONAL",
"name": "PROVISIONAL"
},
{
"value": "PERPETUAL",
"name": "PERPETUAL"
}
]
}
},
"com.amazonaws.licensemanager#ClientRequestToken":
{
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 36
}
}
},
"com.amazonaws.licensemanager#ClientToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^\\S+$"
}

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    },
    "com.amazonaws.licensemanager#ConflictException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ConflictException",
                "httpResponseCode": 409
            },
            "smithy.api#documentation": "<p>There
was a conflict processing the request. Try your request again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 409
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
                }
            },
            "ConsumedLicenses": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about license consumption.</p>"
         }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
        }
    },
    "com.amazonaws.licensemanager#ConsumptionConfiguration": {
        "type": "structure",
        "members": {
```

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        "RenewType": {
            "target": "com.amazonaws.licensemanager#RenewType",
            "traits": {
                "smithy.api#documentation": "<p>Renewal frequency.</p>"
            }
        },
        "ProvisionalConfiguration": {
            "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
            }
        },
        "BorrowConfiguration": {

            "target": "com.amazonaws.licensemanager#BorrowConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
    }
},
"com.amazonaws.licensemanager#CreateGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },

    {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of
license entitlements with specific Amazon Web Services accounts.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantRequest": {
        "type": "structure",
        "members": {

  "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },

        "Principals": {
                "target": "com.amazonaws.licensemanager#PrincipalArnList",
                "traits": {
                    "smithy.api#documentation": "<p>The grant principals.</p>",
                    "smithy.api#required": {}
                }
            },
            "HomeRegion": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CreateGrantResponse":
{
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
}
},
"com.amazonaws.licensemanager#CreateGrantVersion": {
"type": "operation",
"input": {

"target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
},

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        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {

            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Creates a new version of the specified grant.</p>"
        }
      },
      "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
        "type": "structure",
        "members": {
          "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientToken",
            "traits": {
              "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
              "smithy.api#required": {}
            }
          },
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
              "smithy.api#required": {}
            }
          },
          "GrantName": {
            "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " Grant name. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",

"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the grant. "
}
}
}
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant
status. "
}
},
"Version": {

```
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>New version of the grant.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CreateLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a license.</p>"
    }
},
"com.amazonaws.licensemanager#CreateLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
    },
    "output": {
```

"target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Creates a license configuration. \n A license configuration is an abstraction of a customer license
agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a \n license must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {

"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension used to track the license inventory. ",
"smithy.api#required": {}
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {

"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows. \n \n \n \n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n <code>licenseAffinityToHost</code> |\n <code>maximumCores</code> | <code>minimumCores</code>\n \n \n \n \n <code>Instances</code> dimension: <code>allowedTenancy</code> | \n <code>maximumCores</code> | <code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n \n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n <code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code>\n \n \n \n \n <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n <code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the license configuration. "
}

```
            },
            "DisassociateWhenNotFound": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
                }
            },
            "ProductInformationList": {
                "target": "com.amazonaws.licensemanager#ProductInformationList",
                "traits":
{
                    "smithy.api#documentation": "<p>Product information.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest":
 {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting
from. \n        For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the AWS
CLI</a> in the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            },
            "DestinationLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting to.
For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the AWS
CLI</a> in the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
        "type": "structure",
```

```
    "members": {
        "LicenseConversionTaskId": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
            "traits": {
                "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a report generator.</p>"
    }
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
```

"type": "structure",
"members": {
"ReportGeneratorName": {
"target":
"com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types an be generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}
}
},

"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " Defines the type of license configuration the report generator tracks. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits":
{
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the new report generator. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseRequest": {
"type": "structure",
"members": {
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. ",
"smithy.api#required": {}
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. ",
"smithy.api#required": {}
}

},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits": {
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region for the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation":
" Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {

"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {

"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}

}
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
},

```
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License name.</p>",
                "smithy.api#required": {}
            }
        },
        "ProductName": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits": {
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation":
" Home Region of the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",

"smithy.api#required": {}
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target":
"com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. "
}
},

"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New version of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}

```
            }
        }
    },
    "com.amazonaws.licensemanager#CreateToken": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateTokenResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },

   {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a long-lived token.</p>\n        <p>A refresh token is a JWT
 token used to get an access token. With an access token,\n        you can call AssumeRoleWithWebIdentity to get
role credentials that you can use to \n        call License Manager to manage the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateTokenRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
```

"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n JWT token. ",
"smithy.api#required": {}
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n License Manager does not check whether the roles are in use. "
}
},
"ExpirationInDays": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Token expiration, in days, counted from token creation. The default is 365 days. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller to be included in the JWT token. The data is mapped\n to the amr claim of the JWT token. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Idempotency token, valid for 10 minutes. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CreateTokenResponse": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. "
}
},
"TokenType": {

"target": "com.amazonaws.licensemanager#TokenType",
"traits": {
"smithy.api#documentation": " Token type. "
}
},
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token,
encoded as a JWT token. "
}
}
}
},
"com.amazonaws.licensemanager#DateTime": {
"type": "timestamp"
},
"com.amazonaws.licensemanager#DatetimeRange": {
"type": "structure",
"members": {
"Begin": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Start of the time range. ",
"smithy.api#required": {}
}
},
"End": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " End of the time range. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a time range, in ISO8601-UTC
format. "
}
},
"com.amazonaws.licensemanager#DeleteGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteGrantResponse"
},
"errors": [

```
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

    },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Deletes the specified grant.</p>"
      }
    },
    "com.amazonaws.licensemanager#DeleteGrantRequest": {
      "type": "structure",
      "members": {
        "GrantArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
            "smithy.api#required": {}
          }
        },
        "StatusReason": {
          "target": "com.amazonaws.licensemanager#StatusReasonMessage",
          "traits": {

      "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
          }
        },
        "Version": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Current version of the grant.</p>",
```

```
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanager#DeleteGrantResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation":
"<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#DeleteLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
         },
        {
```

"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license configuration. \n You cannot delete a license configuration

that is in use. "
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " ID of the license configuration. ",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"

},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified report generator. \n This action deletes the report generator, which stops it from generating future reports.\n The action cannot be reversed. It has no effect on the previous reports from this generator. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to be deleted. ",
"smithy.api#required": {}
}
}
}
},

"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#DeleteLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. ",
"smithy.api#required": {}
}
}
}

```
    },
    "com.amazonaws.licensemanager#DeleteLicenseResponse":
{
        "type": "structure",
        "members": {
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>"
                }
            },
            "DeletionDate": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date when the license is deleted.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#DeleteToken": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
        },
        "errors": [
            {

      "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
```

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified token. Must be called in the license home Region. "
}

},
"com.amazonaws.licensemanager#DeleteTokenRequest": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#DeleteTokenResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#DigitalSignatureMethod": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "JWT_PS384",
"name": "JWT_PS384"
}
]
}
},
"com.amazonaws.licensemanager#Entitlement": {
"type": "structure",

"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement name. ",
"smithy.api#required": {}
}
},
"Value": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement resource. Use only if the unit is None. "
}
},
"MaxCount": {
"target": "com.amazonaws.licensemanager#Long",
"traits": {
"smithy.api#documentation": " Maximum entitlement count. Use if the unit is not None. "
}
},
"Overage": {
"target": "com.amazonaws.licensemanager#BoxBoolean",

"traits": {
"smithy.api#documentation": " Indicates whether overages are allowed. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementUnit",
"traits": {
"smithy.api#documentation": " Entitlement unit. ",
"smithy.api#required": {}
}
},
"AllowCheckIn": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether check-ins are allowed. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a resource entitled for use with a license. "
}
},
"com.amazonaws.licensemanager#EntitlementData": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Entitlement data value. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {
"smithy.api#documentation": " Entitlement data unit. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Data associated
with an entitlement resource. "
}
},
"com.amazonaws.licensemanager#EntitlementDataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#EntitlementData"
}
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "Count",
"name": "COUNT"
},
{
"value": "None",
"name": "NONE"
},
{
"value": "Seconds",
"name": "SECONDS"
},
{
"value": "Microseconds",
"name": "MICROSECONDS"
},
{

"value": "Milliseconds",
"name": "MILLISECONDS"
},

```
{
   "value": "Bytes",
   "name": "BYTES"
},
{
   "value": "Kilobytes",
   "name": "KILOBYTES"
},
{
   "value": "Megabytes",
   "name": "MEGABYTES"
},
{
   "value": "Gigabytes",
   "name": "GIGABYTES"
},
{
   "value": "Terabytes",
   "name": "TERABYTES"
},
{
   "value": "Bits",
   "name": "BITS"
},
{
   "value": "Kilobits",
   "name": "KILOBITS"
 },
{
   "value": "Megabits",
   "name": "MEGABITS"
},
{
   "value": "Gigabits",
   "name": "GIGABITS"
},
{
   "value": "Terabits",
   "name": "TERABITS"
},
{
   "value": "Percent",
   "name": "PERCENT"
},
{
   "value": "Bytes/Second",
   "name": "BYTES_PER_SECOND"
},
```

```
            {
              "value": "Kilobytes/Second",
              "name": "KILOBYTES_PER_SECOND"
            },
            {
              "value": "Megabytes/Second",
              "name": "MEGABYTES_PER_SECOND"

},
            {
              "value": "Gigabytes/Second",
              "name": "GIGABYTES_PER_SECOND"
            },
            {
              "value": "Terabytes/Second",
              "name": "TERABYTES_PER_SECOND"
            },
            {
              "value": "Bits/Second",
              "name": "BITS_PER_SECOND"
            },
            {
              "value": "Kilobits/Second",
              "name": "KILOBITS_PER_SECOND"
            },
            {
              "value": "Megabits/Second",
              "name": "MEGABITS_PER_SECOND"
            },
            {
              "value": "Gigabits/Second",
              "name": "GIGABITS_PER_SECOND"
            },
            {
              "value": "Terabits/Second",

  "name": "TERABITS_PER_SECOND"
            },
            {
              "value": "Count/Second",
              "name": "COUNT_PER_SECOND"
            }
          ]
        }
      },
      "com.amazonaws.licensemanager#EntitlementList": {
        "type": "list",
        "member": {
```

```
        "target": "com.amazonaws.licensemanager#Entitlement"
    }
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#EntitlementUnit": {

 "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "Count",
                "name": "COUNT"
            },
            {
                "value": "None",
                "name": "NONE"
            },
            {
                "value": "Seconds",
                "name": "SECONDS"
            },
            {
                "value": "Microseconds",
                "name": "MICROSECONDS"
            },
            {
                "value": "Milliseconds",
                "name": "MILLISECONDS"
            },
            {
                "value": "Bytes",
                "name": "BYTES"
            },
            {
                "value": "Kilobytes",
                "name": "KILOBYTES"
```

},
{
"value": "Megabytes",
"name": "MEGABYTES"
},
{
"value": "Gigabytes",
"name": "GIGABYTES"
},
{
"value": "Terabytes",
"name": "TERABYTES"
},
{
"value": "Bits",
"name": "BITS"
},
{
"value": "Kilobits",
"name": "KILOBITS"
},
{
"value": "Megabits",
"name": "MEGABITS"
},
{
"value": "Gigabits",
"name": "GIGABITS"
},
{
"value": "Terabits",
"name": "TERABITS"
},
{
"value": "Percent",
"name": "PERCENT"
},
{
"value": "Bytes/Second",
"name": "BYTES_PER_SECOND"
},
{
"value": "Kilobytes/Second",
"name": "KILOBYTES_PER_SECOND"
},
{
"value": "Megabytes/Second",

"name": "MEGABYTES_PER_SECOND"
},
{
"value": "Gigabytes/Second",
"name": "GIGABYTES_PER_SECOND"
},
{
"value": "Terabytes/Second",
"name": "TERABYTES_PER_SECOND"
},
{

"value": "Bits/Second",
"name": "BITS_PER_SECOND"
},
{
"value": "Kilobits/Second",
"name": "KILOBITS_PER_SECOND"
},
{
"value": "Megabits/Second",
"name": "MEGABITS_PER_SECOND"
},
{
"value": "Gigabits/Second",
"name": "GIGABITS_PER_SECOND"
},
{
"value": "Terabits/Second",
"name": "TERABITS_PER_SECOND"
},
{
"value": "Count/Second",
"name": "COUNT_PER_SECOND"
}
]
}
},
"com.amazonaws.licensemanager#EntitlementUsage": {
"type": "structure",

"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement usage name. ",
"smithy.api#required": {}
}

```
        },
        "ConsumedValue": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxCount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
    }
},
"com.amazonaws.licensemanager#EntitlementUsageList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#EntitlementUsage"
    }
},
"com.amazonaws.licensemanager#ExtendLicenseConsumption": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
    },
    "errors": [
        {

    "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
```

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            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}
                }
            },
            "DryRun": {
                "target": "com.amazonaws.licensemanager#Boolean",
                "traits": {
                    "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
        "type": "structure",

        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>"
                }
```

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            },
            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#FailedDependencyException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            },
            "ErrorCode": {
                "target": "com.amazonaws.licensemanager#String"
            }
        },

     "traits": {
            "aws.protocols#awsQueryError": {
                "code": "FailedDependency",
                "httpResponseCode": 424
            },
            "smithy.api#documentation": "<p>A dependency required to run the API is missing.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 424
        }
    },
    "com.amazonaws.licensemanager#Filter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#FilterName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the filter. Filter names are case-sensitive.</p>"
                }
            },
            "Values": {
                "target": "com.amazonaws.licensemanager#FilterValues",
                "traits": {
                    "smithy.api#documentation": "<p>Filter values. Filter
values are case-sensitive.</p>"
                }
            }
        },
        "traits": {
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"smithy.api#documentation": " A filter name and value pair that is used to return more specific results from a\n describe operation. Filters can be used to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FilterLimitExceeded",
"httpResponseCode": 400
},
"smithy.api#documentation": " The request uses too many filters or too many filter values. ",
"smithy.api#error":
"client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter"
}
},
"com.amazonaws.licensemanager#FilterName": {
"type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
"type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#FilterValue",
"traits": {
"smithy.api#xmlName": "item"
}
}
},
"com.amazonaws.licensemanager#Filters": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter",

"traits": {
"smithy.api#xmlName":
"item"
}
}
},
"com.amazonaws.licensemanager#GetAccessToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"

}
],
"traits": {
"smithy.api#documentation": " Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access tokens\n are valid for one hour. "
}
},
"com.amazonaws.licensemanager#GetAccessTokenRequest": {
"type": "structure",
"members": {
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token, encoded as a JWT token. ",
"smithy.api#required": {}
}
},
"TokenProperties": {

"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Token properties to validate against those present in the JWT token. "
}

}
}
},
"com.amazonaws.licensemanager#GetAccessTokenResponse": {
"type": "structure",
"members": {
"AccessToken": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Temporary access token. "
}
}
}
},
"com.amazonaws.licensemanager#GetGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

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            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
                "smithy.api#documentation": "<p>Grant details.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",

    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
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        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified license
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configuration. "
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " Unique ID for the license configuration. "
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
                }
            },
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " Name of the license configuration. "
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " Description of the license configuration. "
                }
            },
            "LicenseCountingType": {
                "target": "com.amazonaws.licensemanager#LicenseCountingType",
                "traits": {

"smithy.api#documentation": " Dimension for which the licenses are counted. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of available licenses. "
}
},
"LicenseCountHardLimit": {

"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Sets the number of available licenses as a hard limit. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses assigned to resources. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License configuration status. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the
owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},
"ManagedResourceSummaryList": {

"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList":
{
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is
uninstalled. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
"type":
"operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"

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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets
information about the specified license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license type conversion task to retrieve information
on.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license
type conversion task.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the resources the license
conversion task is associated with.</p>"
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
```

"traits": {
"smithy.api#documentation": " Information about the license type converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted to. "

}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " Status of the license type conversion task. "
}
},
"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was started . "
}
},
"LicenseConversionTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Amount of time to complete the license type conversion. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was completed. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation":
"<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
```

"type": "structure",
"members": {
"ReportGenerator": {
"target": "com.amazonaws.licensemanager#ReportGenerator",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic
reports about your license configurations. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseResponse": {
"type": "structure",
"members": {
"License": {
"target":
"com.amazonaws.licensemanager#License",
"traits": {
"smithy.api#documentation": " License details. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseUsage": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"

```
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
        }
      },
      "com.amazonaws.licensemanager#GetLicenseUsageRequest": {
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanager#GetLicenseUsageResponse":
    {
        "type": "structure",
        "members": {
          "LicenseUsage": {
            "target": "com.amazonaws.licensemanager#LicenseUsage",
            "traits": {
              "smithy.api#documentation": "<p>License usage details.</p>"
            }
          }
        }
```

```
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },

  {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
discovery data,\n        and so on.</p>"
                }

            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>SNS topic configured to receive notifications from License
Manager.</p>"
```

```
            }
        },
        "OrganizationConfiguration": {
            "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Indicates whether Organizations is integrated with License
Manager for\n        cross-account discovery.</p>"
            }
        },
        "EnableCrossAccountsDiscovery": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Indicates whether cross-account discovery is enabled.</p>"
            }

  },
        "LicenseManagerResourceShareArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
Manager management account \n        provides member accounts with access to this share.</p>"
            }
        }
    }
  },
  "com.amazonaws.licensemanager#Grant": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "GrantName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

               "smithy.api#documentation": "<p>Grant name.</p>",
                "smithy.api#required": {}
            }
        },
        "ParentArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Parent ARN.</p>",
                "smithy.api#required": {}
```

```
            }
        },
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>License ARN.</p>",
                "smithy.api#required": {}
            }
        },
        "GranteePrincipalArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>The grantee principal ARN.</p>",

"smithy.api#required": {}
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "GrantStatus": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>",
                "smithy.api#required": {}
            }
        },
        "StatusReason": {
            "target": "com.amazonaws.licensemanager#StatusReasonMessage",
            "traits": {
                "smithy.api#documentation": "<p>Grant status reason.</p>"
            }
        },
        "Version": {

    "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>",
                "smithy.api#required": {}
            }
        },
        "GrantedOperations": {
            "target": "com.amazonaws.licensemanager#AllowedOperationList",
            "traits": {
```

```
            "smithy.api#documentation": "<p>Granted operations.</p>",
            "smithy.api#required": {}
          }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes a grant.</p>"
    }
},
"com.amazonaws.licensemanager#GrantList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Grant"
    }
},
"com.amazonaws.licensemanager#GrantStatus": {
    "type": "string",

  "traits": {
        "smithy.api#enum": [
          {
            "value": "PENDING_WORKFLOW",
            "name": "PENDING_WORKFLOW"
          },
          {
            "value": "PENDING_ACCEPT",
            "name": "PENDING_ACCEPT"
          },
          {
            "value": "REJECTED",
            "name": "REJECTED"
          },
          {
            "value": "ACTIVE",
            "name": "ACTIVE"
          },
          {
            "value": "FAILED_WORKFLOW",
            "name": "FAILED_WORKFLOW"
          },
          {
            "value": "DELETED",
            "name": "DELETED"
          },
          {
            "value": "PENDING_DELETE",
            "name": "PENDING_DELETE"
```

```
            },
            {
                "value": "DISABLED",
                "name": "DISABLED"
            },
            {
                "value": "WORKFLOW_COMPLETED",
                "name": "WORKFLOW_COMPLETED"
            }
        ]
    }
},
"com.amazonaws.licensemanager#GrantedLicense": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License name.</p>"
            }

},
        "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product name.</p>"
            }
        },
        "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product SKU.</p>"
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>Granted license issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " Home Region of the granted license. "

}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " Granted license status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the granted license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Granted license beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Granted license metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Creation time of the granted license. "

```
}
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Version of the granted license.</p>"
                }
            },
            "ReceivedMetadata": {
                "target": "com.amazonaws.licensemanager#ReceivedMetadata",
                "traits": {
                    "smithy.api#documentation": "<p>Granted license received metadata.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes a license that is granted to a grantee.</p>"
        }
    },
    "com.amazonaws.licensemanager#GrantedLicenseList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#GrantedLicense"
        }
    },
    "com.amazonaws.licensemanager#ISO8601DateTime":
{
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            },
            "smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-
1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[ 0-3]|[0-1][0-9]):[0-5][0-9])+$"
        }
    },
    "com.amazonaws.licensemanager#Integer": {
        "type": "integer",
        "traits": {
            "smithy.api#box": {}
        }
    },
    "com.amazonaws.licensemanager#InvalidParameterValueException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
```

```
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidParameterValueProvided",

  "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>One or more parameter values are not valid.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InvalidResourceStateException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidResourceState",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n        <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
            "smithy.api#error": "client",
             "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InventoryFilter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the filter.</p>",
                    "smithy.api#required": {}
                }
            },
            "Condition": {
                "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
                "traits": {
                    "smithy.api#documentation": "<p>Condition of the filter.</p>",
                    "smithy.api#required": {}
                }
```

```
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Value
of the filter.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>An inventory filter.</p>"
        }
    },
    "com.amazonaws.licensemanager#InventoryFilterCondition": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "EQUALS",
                    "name": "EQUALS"
                },
                {
                    "value": "NOT_EQUALS",
                    "name": "NOT_EQUALS"
                },
                {
                    "value": "BEGINS_WITH",
                    "name": "BEGINS_WITH"
                },
                {
                    "value": "CONTAINS",
                    "name": "CONTAINS"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#InventoryFilterList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#InventoryFilter"
        }
    },
    "com.amazonaws.licensemanager#Issuer": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " Issuer name. ",
"smithy.api#required": {}
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
}
},
"traits": {

"smithy.api#documentation": " Details about the issuer of a license. "
}
},
"com.amazonaws.licensemanager#IssuerDetails": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. "
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer key fingerprint. "
}
}
},
"traits": {
"smithy.api#documentation": " Details associated with the issuer of a license. "
}
},
"com.amazonaws.licensemanager#License": {

"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. "
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " License issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-

UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "

}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " License metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License creation time. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits":
{
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#documentation": " Software license that is managed in License Manager. "
}
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
"type": "structure",

```
"members": {
    "LicenseConfigurationId": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
        }
    },
    "LicenseConfigurationArn": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
        }

},
    "Name": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Name of the license configuration.</p>"
        }
    },
    "Description": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Description of the license configuration.</p>"
        }
    },
    "LicenseCountingType": {
        "target": "com.amazonaws.licensemanager#LicenseCountingType",
        "traits": {
            "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
        }
    },
    "LicenseRules": {
        "target": "com.amazonaws.licensemanager#StringList",
        "traits": {

            "smithy.api#documentation": "<p>License rules.</p>"
        }
    },
    "LicenseCount": {
        "target": "com.amazonaws.licensemanager#BoxLong",
        "traits": {
            "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
        }
    },
    "LicenseCountHardLimit": {
        "target": "com.amazonaws.licensemanager#BoxBoolean",
        "traits": {
```

"smithy.api#documentation": " Number of available licenses as a hard limit. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "

}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the license configuration. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the license configuration's owner. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",

"traits": {
"smithy.api#documentation": " Summaries for licenses consumed by various resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},

"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated
discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license
agreement that can be\n consumed and enforced by License Manager. Components include specifications for
the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n
Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a
host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name
(ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource
consuming licenses. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was associated with the
resource. "
}
},
"AmiAssociationScope":

{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an association with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
}
},
"com.amazonaws.licensemanager#LicenseConfigurationStatus": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "AVAILABLE",
"name": "AVAILABLE"
},
{
"value": "DISABLED",
"name": "DISABLED"
}
]
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsage": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of resource. "
}
},

"ResourceStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Status of the resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was initially associated with the resource. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}

},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
}
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfiguration"
}
},
"com.amazonaws.licensemanager#LicenseConversionContext": {
"type": "structure",
"members": {

"UsageOperation": {
"target": "com.amazonaws.licensemanager#UsageOperation",
"traits": {
"smithy.api#documentation": " The Usage operation value that corresponds
to the license type you are converting your resource from. For more information about which platforms correspond to which usage operation values see Sample data: usage operation by platform\n \n "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTask": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the license type conversion task. "
}
},
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource associated with the license type\n conversion task. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted to. "
}
},

"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",

"traits": {
"smithy.api#documentation": " The status of the conversion task. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was started at. "
}
},
"LicenseConversionTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " The time the usage operation value of the resource was changed. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was completed. "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTaskId": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
}
},
"com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
"type":
"string",
"traits": {

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        "smithy.api#enum": [
            {
                "value": "IN_PROGRESS",
                "name": "IN_PROGRESS"
            },
            {
                "value": "SUCCEEDED",
                "name": "SUCCEEDED"
            },
            {
                "value": "FAILED",
                "name": "FAILED"
            }
        ]
    }
},
"com.amazonaws.licensemanager#LicenseConversionTasks": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#LicenseConversionTask"
    }
},
"com.amazonaws.licensemanager#LicenseCountingType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "vCPU",
                "name": "VCPU"

            },
            {
                "value": "Instance",
                "name": "INSTANCE"
            },
            {
                "value": "Core",
                "name": "CORE"
            },
            {
                "value": "Socket",
                "name": "SOCKET"
            }
        ]
    }
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {
    "type": "string",
```

```
    "traits": {
      "smithy.api#enum": [
        {
          "value": "PENDING_DELETE",
          "name": "PENDING_DELETE"
        },
        {
          "value": "DELETED",
          "name": "DELETED"
        }
      ]
    }
  },
  "com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
     "member": {
      "target": "com.amazonaws.licensemanager#License"
    }
  },
  "com.amazonaws.licensemanager#LicenseOperationFailure": {
    "type": "structure",
    "members": {
      "ResourceArn": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
        }
      },
      "ResourceType": {
        "target": "com.amazonaws.licensemanager#ResourceType",
        "traits": {
          "smithy.api#documentation": "<p>Resource type.</p>"
        }
      },
      "ErrorMessage": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Error message.</p>"

    }
      },
      "FailureTime": {
        "target": "com.amazonaws.licensemanager#DateTime",
        "traits": {
          "smithy.api#documentation": "<p>Failure time.</p>"
        }
      },
      "OperationName": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the operation. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource. "
}
},
"OperationRequestedBy": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The requester is \"License Manager Automated Discovery\". "
}
},
"MetadataList": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Reserved. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the failure of a license operation. "
}
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailure"
}
},
"com.amazonaws.licensemanager#LicenseSpecification": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"AmiAssociationScope": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseSpecification"
}
},
"com.amazonaws.licensemanager#LicenseStatus":
{
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "AVAILABLE",
"name": "AVAILABLE"
},
{
"value": "PENDING_AVAILABLE",
"name": "PENDING_AVAILABLE"
},
{
"value": "DEACTIVATED",
"name": "DEACTIVATED"
},
{
"value": "SUSPENDED",
"name": "SUSPENDED"
},
{
"value": "EXPIRED",
"name": "EXPIRED"
},
{
"value": "PENDING_DELETE",
"name": "PENDING_DELETE"
},
{

"value": "DELETED",
"name": "DELETED"
}
]
}
},
"com.amazonaws.licensemanager#LicenseUsage": {
"type": "structure",
"members": {
"EntitlementUsages": {
"target": "com.amazonaws.licensemanager#EntitlementUsageList",
"traits": {
"smithy.api#documentation": " License entitlement usages. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the entitlement usage associated with a license. "
}
},
"com.amazonaws.licensemanager#LicenseUsageException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {

"aws.protocols#awsQueryError": {
"code": "LicenseUsageFailure",
"httpResponseCode": 412
},
"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
},
"errors": [

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            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the resource associations for the specified license
configuration.</p> \n        <p>Resource associations need not consume licenses from a license configuration. \n
For example, an AMI or a stopped instance might not consume a license (depending on \n        the license
rules).</p>"
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest":
{
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
```

```
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationAssociations": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the associations for the license
configuration.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListDistributedGrants": {
        "type": "operation",
        "input": {
            "target":
 "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
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"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants distributed for the specified license. "
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranteePrincipalARN</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",

"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configuration operations that failed. "
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
"type": "structure",
"members": {

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            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse": {
        "type": "structure",
        "members": {
            "LicenseOperationFailureList": {
                "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
                "traits": {
                    "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurations":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },

        {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
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"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>licenseCountingType</code> - The dimension for which licenses are counted.\n Possible values are <code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement is used. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>usagelimitExceeded</code> - A Boolean value that indicates whether the available licenses have been exceeded. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
"type": "structure",
"members": {
"LicenseConfigurations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurations",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "

}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasks": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"

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            },
            {
                "target":
 "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
        "type": "structure",
        "members": {
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                 "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>\n        Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n      </p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTasks": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configuration tasks for your
account.</p>"
```

```
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },

{
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the report generators for your account.</p>"
    }
```

```
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest": {
      "type":
 "structure",
      "members": {
        "Filters": {
          "target": "com.amazonaws.licensemanager#FilterList",
          "traits": {
            "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:
</p>\n      <ul>\n        <li>\n        <p>\n        <code>LicenseConfigurationArn</code>\n
</p>\n        </li>\n      </ul>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#MaxSize100",
          "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to
 return in a single call.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
      "type": "structure",
      "members": {
        "ReportGenerators": {
          "target": "com.amazonaws.licensemanager#ReportGeneratorList",
          "traits": {
            "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
      "type": "operation",
```

"input":
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Describes the
license configurations for the specified resource. "
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a resource that has an
associated license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",

```
        "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
    }
  },
  "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {
      "LicenseSpecifications": {
        "target": "com.amazonaws.licensemanager#LicenseSpecifications",
        "traits": {
          "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
        }
      },
      "NextToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      }
    }
  },
  "com.amazonaws.licensemanager#ListLicenseVersions": {
     "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      }
```

```
        ],
        "traits": {
            "smithy.api#documentation":
"<p>Lists all versions of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum
number of results to return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
        "type": "structure",
        "members": {
            "Licenses": {
                "target": "com.amazonaws.licensemanager#LicenseList",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
```

"com.amazonaws.licensemanager#ListLicenses": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicensesRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicensesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses for your account. "
}
},
"com.amazonaws.licensemanager#ListLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n

```
<code>Fingerprint</code>\n </p>\n </li>\n <li>\n <p>\n
<code>Status</code>\n </p>\n </li>\n </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListLicensesResponse": {
        "type": "structure",
        "members": {
          "Licenses": {

    "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
              "smithy.api#documentation": "<p>License details.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListReceivedGrants": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
```

{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists grants that are received but not accepted. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
"type": "structure",

"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n
<code>GrantStatus</code>\n \n \n \n \n <code>GranterAccountId</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",

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            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
    "type": "structure",
    "members": {
        "Grants": {

     "target": "com.amazonaws.licensemanager#GrantList",
            "traits": {
                "smithy.api#documentation": "<p>Received grant details.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"

},
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists received licenses.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
        "type": "structure",

    "members": {
            "LicenseArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>ProductSKU</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                <code>Status</code>\n                </p>\n            </li>\n
<li>\n                <p>\n                <code>Fingerprint</code>\n                </p>\n            </li>\n            <li>\n
<p>\n                <code>IssuerName</code>\n
            </p>\n            </li>\n            <li>\n                <p>\n                <code>Beneficiary</code>\n                </p>\n
        </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
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"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {

"target": "com.amazonaws.licensemanager#GrantedLicenseList",
"traits": {
"smithy.api#documentation": " Received license details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListResourceInventory": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"

},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FailedDependencyException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryRequest": {

        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#InventoryFilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n are supported:</p>\n <ul>\n <li>\n <p>\n <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n </li>\n <li>\n <p>\n <code>application_name</code> - The name of the application. \n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n </li>\n <li>\n <p>\n <code>license_included</code> - The type of license included. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n Possible values are <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>.</p>\n </li>\n <li>\n <p>\n <code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n </li>\n <li>\n <p>\n <code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n </li>\n <li>\n <p>\n <code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account).</p>\n </li>\n </ul>"
```

```
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListResourceInventoryResponse": {
        "type": "structure",
        "members": {
          "ResourceInventoryList": {
            "target": "com.amazonaws.licensemanager#ResourceInventoryList",
            "traits":
{
              "smithy.api#documentation": "<p>Information about the resources.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListTagsForResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
           },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
```

"smithy.api#documentation": " Lists the tags for the specified license configuration. "
}
},
"com.amazonaws.licensemanager#ListTagsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#ListTagsForResourceResponse": {
"type": "structure",
"members": {
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Information about the tags. "
}
}
}
},
"com.amazonaws.licensemanager#ListTokens": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListTokensRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListTokensResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{

"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists your tokens. "
}
},
"com.amazonaws.licensemanager#ListTokensRequest": {
"type": "structure",
"members": {
"TokenIds": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " Token IDs. "
}
},
"Filters": {
"target":
"com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filter is supported: \n
\n \n \n <code>LicenseArns</code>\n \n \n
"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListTokensResponse":
{
"type": "structure",
"members": {
"Tokens": {
"target": "com.amazonaws.licensemanager#TokenList",

"traits": {
"smithy.api#documentation": " Received token details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists all license usage records for a license configuration, displaying license\n consumption details by resource
at a selected point in time. Use this action to audit the\n current license consumption for any license inventory and configuration. "
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {

"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>resourceArn</code> - The ARN of the license configuration resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>).\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceAccount</code> - The ID of the account that owns the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationUsageList": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "

```
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#Location": {
    "type": "string"
},
"com.amazonaws.licensemanager#Long": {
    "type": "long",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummary": {
    "type": "structure",
    "members": {
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
            }
        },
        "AssociationCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {
    "type": "integer",
    "traits": {
```

```
            "smithy.api#box": {},
            "smithy.api#range": {
                "min": 1,
                "max": 100
            }
        }
    },
    "com.amazonaws.licensemanager#MaxSize3StringList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
         },
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 3
            }
        }
    },
    "com.amazonaws.licensemanager#Message": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#Metadata": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The key name.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes key/value pairs.</p>"
        }

    },
    "com.amazonaws.licensemanager#MetadataList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Metadata"
        }
```

```
    },
    "com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>There are no entitlements found for this license, or the entitlement
maximum count is reached.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#OrganizationConfiguration": {
        "type": "structure",
        "members": {
            "EnableIntegration": {
                "target": "com.amazonaws.licensemanager#Boolean",

       "traits": {
                    "smithy.api#documentation": "<p>Enables Organizations integration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Configuration information for Organizations.</p>"
        }
    },
    "com.amazonaws.licensemanager#PrincipalArnList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Arn"
        },
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max": 1
            }
        }
    },
    "com.amazonaws.licensemanager#ProductInformation": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#String",
```

"traits": {

"smithy.api#documentation": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n
Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n
Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n
<code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n \n ",
"smithy.api#required": {}
}

```
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes product information for a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ProductInformationFilter": {
        "type": "structure",
        "members": {
            "ProductInformationFilterName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Filter name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductInformationFilterValue": {
                "target":
"com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Filter value.</p>"
                }
            },
            "ProductInformationFilterComparator": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Logical operator.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes product information filters.</p>"
        }
    },
    "com.amazonaws.licensemanager#ProductInformationFilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ProductInformationFilter"
        }
    },
    "com.amazonaws.licensemanager#ProductInformationList": {
        "type": "list",

       "member": {
            "target": "com.amazonaws.licensemanager#ProductInformation"
        }
    },
```

"com.amazonaws.licensemanager#ProvisionalConfiguration": {
"type": "structure",
"members": {
"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the provisional configuration, in minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"com.amazonaws.licensemanager#RateLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"

}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "RateLimitExceeded",
"httpResponseCode": 429
},
"smithy.api#documentation": " Too many requests have been submitted. Try again after a brief wait. ",
"smithy.api#error": "client",
"smithy.api#httpError": 429
}
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
"type": "structure",
"members": {
"ReceivedStatus": {
"target": "com.amazonaws.licensemanager#ReceivedStatus",
"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {

"smithy.api#documentation": " Received status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations. "
}
}
},
"traits": {
"smithy.api#documentation": " Metadata associated with received licenses and grants. "
}
},
"com.amazonaws.licensemanager#ReceivedStatus": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "PENDING_WORKFLOW",
"name": "PENDING_WORKFLOW"
},
{
"value": "PENDING_ACCEPT",
"name": "PENDING_ACCEPT"
},
{
"value": "REJECTED",
"name": "REJECTED"
},
{
"value": "ACTIVE",
"name": "ACTIVE"
},
{
"value": "FAILED_WORKFLOW",
"name": "FAILED_WORKFLOW"
},
{
"value": "DELETED",
"name": "DELETED"
},
{
"value": "DISABLED",
"name": "DISABLED"
},
{
"value": "WORKFLOW_COMPLETED",

"name": "WORKFLOW_COMPLETED"
}
]
}
},
"com.amazonaws.licensemanager#RedirectException": {
"type": "structure",
"members": {

"Location": {
"target": "com.amazonaws.licensemanager#Location",
"traits": {
"smithy.api#httpHeader": "Location"
}
},
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " This is not the correct Region for the resource. Try again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 308
}
},
"com.amazonaws.licensemanager#RejectGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#RejectGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#RejectGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

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            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest":
{
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"

        }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        }
```

```
    },
    "com.amazonaws.licensemanager#RenewType": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "None",
                    "name": "NONE"
                },
                {
                    "value": "Weekly",
                    "name": "WEEKLY"
                },
                {
                    "value": "Monthly",
                    "name": "MONTHLY"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#ReportContext": {
        "type": "structure",
        "members": {

  "licenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration that
this generator reports on.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details of the license configuration that this generator reports on.</p>"
        }
    },
    "com.amazonaws.licensemanager#ReportFrequency": {
        "type": "structure",
        "members": {
            "value": {
                "target": "com.amazonaws.licensemanager#Integer",
                "traits": {
                    "smithy.api#documentation": "<p>Number of times within the frequency period that a report is
generated.  \n        The only supported value is <code>1</code>.</p>"

            }
            },
```

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            "period": {
                "target": "com.amazonaws.licensemanager#ReportFrequencyType",
                "traits": {
                    "smithy.api#documentation": "<p>Time period between each report. The period can be daily, weekly,
or monthly.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
        }
    },
    "com.amazonaws.licensemanager#ReportFrequencyType": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "DAY",
                    "name": "DAY"
                },
                {
                    "value": "WEEK",
                    "name": "WEEK"
                },
                {
                    "value": "MONTH",

            "name": "MONTH"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#ReportGenerator": {
        "type": "structure",
        "members": {
            "ReportGeneratorName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>"
                }
            },
            "ReportType": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports that are generated.</p>"
                }
            },
            "ReportContext": {
```

"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " License configuration type for this generator. "
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. "
}
},
"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}
},
"LastRunFailureReason": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Failure message for the last report generation attempt. "
}
},
"LastReportGenerationTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the last report was generated at. "
}
},
"ReportCreatorAccount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Web Services account ID used to create the report generator. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the report was created. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags associated with the report generator. "
}
}
},

"traits": {
"smithy.api#documentation": " Describe the details of a report generator. "
}
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportGenerator"
}
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
}
}
},
"com.amazonaws.licensemanager#ReportType": {
"type": "string",
"traits": {
"smithy.api#enum": [
{

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            "value": "LicenseConfigurationSummaryReport",
            "name": "LICENSE_CONFIGURATION_SUMMARY_REPORT"
        },
        {
            "value": "LicenseConfigurationUsageReport",
            "name": "LICENSE_CONFIGURATION_USAGE_REPORT"
        }
    ]
  }
},
"com.amazonaws.licensemanager#ReportTypeList": {
  "type": "list",
  "member": {
    "target": "com.amazonaws.licensemanager#ReportType"
  }
},
"com.amazonaws.licensemanager#ResourceInventory": {
  "type": "structure",
  "members": {
    "ResourceId": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>ID of the resource.</p>"
      }
    },
    "ResourceType": {
      "target": "com.amazonaws.licensemanager#ResourceType",
      "traits": {
        "smithy.api#documentation": "<p>Type of resource.</p>"
      }
    },
    "ResourceArn": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
      }
    },
    "Platform": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Platform of the resource.</p>"
      }
    },
    "PlatformVersion": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
      }
```

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            },
            "ResourceOwningAccountId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>ID of the account that owns the resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ResourceInventoryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ResourceInventory"
        }
    },
    "com.amazonaws.licensemanager#ResourceLimitExceededException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ResourceLimitExceeded",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>Your resource limits have
been exceeded.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#ResourceNotFoundException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidResource.NotFound",
                "httpResponseCode": 400
```

```
            },
            "smithy.api#documentation": "<p>The resource cannot be found.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#ResourceType": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "EC2_INSTANCE",
                     "name": "EC2_INSTANCE"
                },
                {
                    "value": "EC2_HOST",
                    "name": "EC2_HOST"
                },
                {
                    "value": "EC2_AMI",
                    "name": "EC2_AMI"
                },
                {
                    "value": "RDS",
                    "name": "RDS"
                },
                {
                    "value": "SYSTEMS_MANAGER_MANAGED_INSTANCE",
                    "name": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#S3Location": {
        "type": "structure",
        "members": {
            "bucket": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the S3 bucket
reports are published to.</p>"
                }
            },
            "keyPrefix": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Prefix of the S3 bucket reports are published to.</p>"
                }
```

```
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
        }
    },
    "com.amazonaws.licensemanager#ServerInternalException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InternalError",
                "httpResponseCode": 500
            },
            "smithy.api#documentation":
 "<p>The server experienced an internal error. Try again.</p>",
            "smithy.api#error": "server",
            "smithy.api#httpError": 500
        }
    },
    "com.amazonaws.licensemanager#SignedToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 4096
            }
        }
    },
    "com.amazonaws.licensemanager#StatusReasonMessage": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 400
            },
            "smithy.api#pattern": "^[\\s\\S]+$"
        }
    },
    "com.amazonaws.licensemanager#String": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#StringList": {
        "type": "list",
```

```
        "member": {
            "target": "com.amazonaws.licensemanager#String"

      }
    },
    "com.amazonaws.licensemanager#Tag": {
        "type": "structure",
        "members": {
            "Key": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag key.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#TagList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Tag"
        }
    },
    "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
            {
```

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},

{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Adds the specified tags to the specified license configuration. "
}
},
"com.amazonaws.licensemanager#TagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " One or more tags. ",
"smithy.api#required": {}
}
}
}
}
},
"com.amazonaws.licensemanager#TagResourceResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#TokenData": {
"type": "structure",
"members": {

"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. "
}
},
"TokenType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Type of token generated. The supported value is <code>REFRESH_TOKEN</code>. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"ExpirationTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Token expiration time, in ISO8601-UTC format. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller. "
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the roles included in the token. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a token. "

```
        }
    },
    "com.amazonaws.licensemanager#TokenList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#TokenData"
        }
    },
    "com.amazonaws.licensemanager#TokenString": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 4096
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
    "com.amazonaws.licensemanager#TokenType":
{
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "REFRESH_TOKEN",
                    "name": "REFRESH_TOKEN"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The digital signature method is unsupported. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#UntagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UntagResourceRequest"
```

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UntagResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Removes the specified tags from the specified license
configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#UntagResourceRequest":
 {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "TagKeys": {
                "target": "com.amazonaws.licensemanager#TagKeyList",
                "traits": {
                    "smithy.api#documentation": "<p>Keys identifying the tags to remove.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#UntagResourceResponse": {
```

"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Modifies the attributes of an existing license configuration. "
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"LicenseConfigurationStatus": {

"target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
"traits": {
"smithy.api#documentation": " New status of the license configuration. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " New license rule. The only rule that you can add after you create a license\n configuration is licenseAffinityToHost. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " New number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}

},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {

"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates a report generator. \n After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated. "

```
  }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
      "type": "structure",
      "members": {
        "LicenseManagerReportGeneratorArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to
update.</p>",
            "smithy.api#required": {}
          }
        },
        "ReportGeneratorName": {
          "target": "com.amazonaws.licensemanager#ReportGeneratorName",
          "traits": {
            "smithy.api#documentation": "<p>Name of the report generator.</p>",
            "smithy.api#required": {}
          }
        },
        "Type": {
          "target": "com.amazonaws.licensemanager#ReportTypeList",
          "traits": {
            "smithy.api#documentation": "<p>Type of reports to generate. The following report types are
supported:</p>\n <ul>\n <li>\n <p>License configuration report - Reports the number and
details of consumed licenses for a license configuration.</p>\n </li>\n <li>\n <p>Resource
report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n </li>\n
</ul>",
            "smithy.api#required": {}
          }
        },
        "ReportContext": {
          "target": "com.amazonaws.licensemanager#ReportContext",
          "traits": {
            "smithy.api#documentation": "<p>The report context.</p>",
            "smithy.api#required": {}
          }
        },
        "ReportFrequency": {
          "target": "com.amazonaws.licensemanager#ReportFrequency",
          "traits": {
            "smithy.api#documentation": "<p>Frequency by which reports are generated.</p>",
            "smithy.api#required": {}
          }
        },
        "ClientToken": {
          "target": "com.amazonaws.licensemanager#ClientRequestToken",
```

"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#InvalidResourceStateException"

},
{
"target": "com.amazonaws.licensemanager#LicenseUsageException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{

"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Adds or removes the specified license configurations for the specified Amazon Web Services resource. \n You can update the license specifications of AMIs, instances, and hosts.\n You cannot update the license specifications for launch templates and CloudFormation templates, \n as they send license configurations to the operation that creates the resource. "
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon Web Services resource. ",
"smithy.api#required": {}
}
},
"AddLicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " ARNs of the license configurations to add. "
}
},
"RemoveLicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " ARNs of the license configurations to remove. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
},
"errors": [

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where
the License Manager information is stored.</p>"
                }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon
 Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Enables integration with Organizations for cross-account
discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Activates cross-account discovery.</p>"
```

```
                }
            }
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#UsageOperation": {
        "type":
 "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            }
        }
    },
    "com.amazonaws.licensemanager#ValidationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    }
  }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
```

```
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string
```

```
 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 //
 Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
```

```
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err
!= nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return
 nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
```

```
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {
```

```
 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
```

```
 options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
```

```
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

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package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
```

```
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if
 err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
```

```
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}
```

1.4257 oci-go-sdk 65.41.1

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// Java Management Service API
//
// API for the Java Management Service. Use this API to view, create, and manage Fleets.
//

package jms

import (
 "strings"
)

// LicenseTypeEnum Enum with underlying type: string
type LicenseTypeEnum string

// Set of constants representing the allowable values for LicenseTypeEnum
const (
 LicenseTypeOtn       LicenseTypeEnum = "OTN"
 LicenseTypeNftc      LicenseTypeEnum = "NFTC"
 LicenseTypeRestricted LicenseTypeEnum = "RESTRICTED"
)

var mappingLicenseTypeEnum = map[string]LicenseTypeEnum{
 "OTN":       LicenseTypeOtn,
 "NFTC":      LicenseTypeNftc,
 "RESTRICTED": LicenseTypeRestricted,
}

var
 mappingLicenseTypeEnumLowerCase = map[string]LicenseTypeEnum{
 "otn":       LicenseTypeOtn,
 "nftc":      LicenseTypeNftc,
 "restricted": LicenseTypeRestricted,
}

// GetLicenseTypeEnumValues Enumerates the set of values for LicenseTypeEnum
func GetLicenseTypeEnumValues() []LicenseTypeEnum {
 values := make([]LicenseTypeEnum, 0)
```

```
 for _, v := range mappingLicenseTypeEnum {
  values = append(values, v)
 }
 return values
}

// GetLicenseTypeEnumStringValues Enumerates the set of values in String for LicenseTypeEnum
func GetLicenseTypeEnumStringValues() []string {
 return []string{
  "OTN",
  "NFTC",
  "RESTRICTED",
 }
}

// GetMappingLicenseTypeEnum performs case Insensitive comparison on enum value and return the desired enum
func GetMappingLicenseTypeEnum(val string) (LicenseTypeEnum, bool) {
 enum, ok := mappingLicenseTypeEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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// Oracle Cloud VMware Solution API
//
// Use the Oracle Cloud VMware API to create SDDCs and manage ESXi hosts and software.
// For more information, see Oracle Cloud VMware Solution
(https://docs.cloud.oracle.com/iaas/Content/VMware/Concepts/ocvsoverview.htm).
//

package ocvp

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// HcxLicenseSummary HCX on-premise license information summary.
type HcxLicenseSummary struct {

 // HCX on-premise license key value.
 ActivationKey *string `mandatory:"true" json:"activationKey"`

 // status of HCX on-premise license.
```

```
 Status HcxLicenseStatusEnum `mandatory:"true"
 json:"status"`

 // Name of the system that consumed the HCX on-premise license
 SystemName *string `mandatory:"false" json:"systemName"`
}

func (m HcxLicenseSummary) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m HcxLicenseSummary) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingHcxLicenseStatusEnum(string(m.Status)); !ok && m.Status != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for Status: %s. Supported values are: %s.",
m.Status, strings.Join(GetHcxLicenseStatusEnumStringValues(), ",")))
 }

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview
(https://docs.cloud.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// ProductLicenseConsumerCollection Collection of resources which have consumed licenses.
```

```
type ProductLicenseConsumerCollection struct {

 // Collection of product license consumers.
 Items []ProductLicenseConsumerSummary `mandatory:"true" json:"items"`
}

func (m ProductLicenseConsumerCollection)
 String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m ProductLicenseConsumerCollection) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// ListProductLicenseConsumersRequest wrapper for the ListProductLicenseConsumers operation
//
// # See also
//
// Click https://docs.cloud.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/ListProductLicenseConsumers.go.html to see an example of how to use
ListProductLicenseConsumersRequest.
type ListProductLicenseConsumersRequest struct {

 // Unique product license identifier.
 ProductLicenseId *string `mandatory:"true" contributesTo:"query" name:"productLicenseId"`
```

```
 // The compartment OCID (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/identifiers.htm)
 used for the license record, product license, and configuration.
 CompartmentId *string `mandatory:"true" contributesTo:"query" name:"compartmentId"`

 // The maximum number of items to return.
 Limit *int `mandatory:"false" contributesTo:"query" name:"limit"`

 // A token representing the position at which to start retrieving results. This must come from the `opc-next-page`
header field of a previous response.
 Page *string `mandatory:"false" contributesTo:"query" name:"page"`

 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Indicates if the given compartment is the root compartment.
 IsCompartmentIdInSubtree *bool `mandatory:"false" contributesTo:"query" name:"isCompartmentIdInSubtree"`

 // The sort order to use, whether `ASC`
 or `DESC`.
 SortOrder ListProductLicenseConsumersSortOrderEnum `mandatory:"false" contributesTo:"query"
name:"sortOrder" omitEmpty:"true"`

 // Specifies the attribute with which to sort the rules.
 // Default: `licenseUnitsRequired`
 // * **licenseUnitsRequired:** Sorts by licenseUnitsRequired of the Resource.
 SortBy ListProductLicenseConsumersSortByEnum `mandatory:"false" contributesTo:"query" name:"sortBy"
omitEmpty:"true"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request ListProductLicenseConsumersRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request ListProductLicenseConsumersRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {


 _,
 err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
```

```
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request ListProductLicenseConsumersRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool)
{

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request ListProductLicenseConsumersRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request ListProductLicenseConsumersRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingListProductLicenseConsumersSortOrderEnum(string(request.SortOrder));
 !ok && request.SortOrder != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for SortOrder: %s. Supported values are:
%s.", request.SortOrder, strings.Join(GetListProductLicenseConsumersSortOrderEnumStringValues(), ",")))
 }
 if _, ok := GetMappingListProductLicenseConsumersSortByEnum(string(request.SortBy)); !ok && request.SortBy
!= "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for SortBy: %s. Supported values are: %s.",
request.SortBy, strings.Join(GetListProductLicenseConsumersSortByEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// ListProductLicenseConsumersResponse wrapper for the ListProductLicenseConsumers operation
type ListProductLicenseConsumersResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // A list of ProductLicenseConsumerCollection instances
 ProductLicenseConsumerCollection
 `presentIn:"body"`
```

```
 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // For pagination of a list of items. When paging through a list, if this header appears in the response,
 // then a partial list might have been returned. Include this value as the `page` parameter for the
 // subsequent GET request to get the next batch of items.
 OpcNextPage *string `presentIn:"header" name:"opc-next-page"`
}

func (response ListProductLicenseConsumersResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response ListProductLicenseConsumersResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}

// ListProductLicenseConsumersSortOrderEnum Enum with underlying type: string
type ListProductLicenseConsumersSortOrderEnum string

// Set of
 constants representing the allowable values for ListProductLicenseConsumersSortOrderEnum
const (
 ListProductLicenseConsumersSortOrderAsc  ListProductLicenseConsumersSortOrderEnum = "ASC"
 ListProductLicenseConsumersSortOrderDesc ListProductLicenseConsumersSortOrderEnum = "DESC"
)

var mappingListProductLicenseConsumersSortOrderEnum =
map[string]ListProductLicenseConsumersSortOrderEnum{
 "ASC":  ListProductLicenseConsumersSortOrderAsc,
 "DESC": ListProductLicenseConsumersSortOrderDesc,
}

var mappingListProductLicenseConsumersSortOrderEnumLowerCase =
map[string]ListProductLicenseConsumersSortOrderEnum{
 "asc":  ListProductLicenseConsumersSortOrderAsc,
 "desc": ListProductLicenseConsumersSortOrderDesc,
}

// GetListProductLicenseConsumersSortOrderEnumValues Enumerates the set of values for
ListProductLicenseConsumersSortOrderEnum
func GetListProductLicenseConsumersSortOrderEnumValues() []ListProductLicenseConsumersSortOrderEnum {
 values := make([]ListProductLicenseConsumersSortOrderEnum,
 0)
 for _, v := range mappingListProductLicenseConsumersSortOrderEnum {
  values = append(values, v)
```

```
 }
 return values
}

// GetListProductLicenseConsumersSortOrderEnumStringValues Enumerates the set of values in String for
ListProductLicenseConsumersSortOrderEnum
func GetListProductLicenseConsumersSortOrderEnumStringValues() []string {
 return []string{
  "ASC",
  "DESC",
 }
}

// GetMappingListProductLicenseConsumersSortOrderEnum performs case Insensitive comparison on enum value
and return the desired enum
func GetMappingListProductLicenseConsumersSortOrderEnum(val string)
(ListProductLicenseConsumersSortOrderEnum, bool) {
 enum, ok := mappingListProductLicenseConsumersSortOrderEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}

// ListProductLicenseConsumersSortByEnum Enum with underlying type: string
type ListProductLicenseConsumersSortByEnum string

// Set of constants representing the allowable values for ListProductLicenseConsumersSortByEnum
const (
 ListProductLicenseConsumersSortByLicenseunitsrequired
 ListProductLicenseConsumersSortByEnum = "licenseUnitsRequired"
)

var mappingListProductLicenseConsumersSortByEnum = map[string]ListProductLicenseConsumersSortByEnum{
 "licenseUnitsRequired": ListProductLicenseConsumersSortByLicenseunitsrequired,
}

var mappingListProductLicenseConsumersSortByEnumLowerCase =
map[string]ListProductLicenseConsumersSortByEnum{
 "licenseunitsrequired": ListProductLicenseConsumersSortByLicenseunitsrequired,
}

// GetListProductLicenseConsumersSortByEnumValues Enumerates the set of values for
ListProductLicenseConsumersSortByEnum
func GetListProductLicenseConsumersSortByEnumValues() []ListProductLicenseConsumersSortByEnum {
 values := make([]ListProductLicenseConsumersSortByEnum, 0)
 for _, v := range mappingListProductLicenseConsumersSortByEnum {
  values = append(values, v)
 }
 return values
}
```

```
// GetListProductLicenseConsumersSortByEnumStringValues Enumerates the set of values in String for
ListProductLicenseConsumersSortByEnum
func
 GetListProductLicenseConsumersSortByEnumStringValues() []string {
 return []string{
  "licenseUnitsRequired",
 }
}

// GetMappingListProductLicenseConsumersSortByEnum performs case Insensitive comparison on enum value and
return the desired enum
func GetMappingListProductLicenseConsumersSortByEnum(val string)
(ListProductLicenseConsumersSortByEnum, bool) {
 enum, ok := mappingListProductLicenseConsumersSortByEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// GoldenGate API
//
// Use the Oracle Cloud Infrastructure GoldenGate APIs to perform data replication operations.
//

package goldengate

import (
 "strings"
)

// LicenseModelEnum Enum with underlying type: string
type LicenseModelEnum string

// Set of constants representing the allowable values for LicenseModelEnum
const (
 LicenseModelLicenseIncluded     LicenseModelEnum = "LICENSE_INCLUDED"
 LicenseModelBringYourOwnLicense LicenseModelEnum = "BRING_YOUR_OWN_LICENSE"
)

var mappingLicenseModelEnum = map[string]LicenseModelEnum{
 "LICENSE_INCLUDED":       LicenseModelLicenseIncluded,
 "BRING_YOUR_OWN_LICENSE": LicenseModelBringYourOwnLicense,
}
```

```
var
 mappingLicenseModelEnumLowerCase = map[string]LicenseModelEnum{
 "license_included":       LicenseModelLicenseIncluded,
 "bring_your_own_license": LicenseModelBringYourOwnLicense,
}

// GetLicenseModelEnumValues Enumerates the set of values for LicenseModelEnum
func GetLicenseModelEnumValues() []LicenseModelEnum {
 values := make([]LicenseModelEnum, 0)
 for _, v := range mappingLicenseModelEnum {
  values = append(values, v)
 }
 return values
}

// GetLicenseModelEnumStringValues Enumerates the set of values in String for LicenseModelEnum
func GetLicenseModelEnumStringValues() []string {
 return []string{
  "LICENSE_INCLUDED",
  "BRING_YOUR_OWN_LICENSE",
 }
}

// GetMappingLicenseModelEnum performs case Insensitive comparison on enum value and return the desired
enum
func GetMappingLicenseModelEnum(val string) (LicenseModelEnum, bool) {
 enum, ok := mappingLicenseModelEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
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// Oracle Cloud VMware Solution API
//
// Use the Oracle Cloud VMware API to create SDDCs and manage ESXi hosts and software.
// For more information, see Oracle Cloud VMware Solution
(https://docs.cloud.oracle.com/iaas/Content/VMware/Concepts/ocvsoverview.htm).
//

package ocvp

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
```

```
)

// VsphereLicense License for vSphere upgrade.
type VsphereLicense struct {

 // vSphere license type.
 LicenseType *string `mandatory:"true" json:"licenseType"`

 // vSphere license key value.
 LicenseKey *string `mandatory:"true" json:"licenseKey"`
}

func (m VsphereLicense) String()
 string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m VsphereLicense) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// CreateLicenseRecordRequest wrapper for the CreateLicenseRecord operation
//
// # See also
//
// Click https://docs.cloud.oracle.com/en-us/iaas/tools/go-sdk-
```

```
examples/latest/licensemanager/CreateLicenseRecord.go.html to see an example of how to use
CreateLicenseRecordRequest.
type CreateLicenseRecordRequest struct {

 // Details needed to create a new license record.
 CreateLicenseRecordDetails `contributesTo:"body"`

 // Unique product license identifier.
 ProductLicenseId *string `mandatory:"true" contributesTo:"query"
 name:"productLicenseId"`

 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // A token that uniquely identifies a request so it can be retried in case of a timeout or server error without
 // risk of executing that same action again. Retry tokens expire after 24 hours, but can be invalidated before
 // then due to conflicting operations (for example, if a resource has been deleted and purged from the system,
 // then a retry of the original creation request might be rejected).
 OpcRetryToken *string `mandatory:"false" contributesTo:"header" name:"opc-retry-token"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request CreateLicenseRecordRequest)
 String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request CreateLicenseRecordRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request CreateLicenseRecordRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false
```

```
}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request CreateLicenseRecordRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This
 function is being called during constructing API request process
// Not recommended for calling this function directly
func (request CreateLicenseRecordRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// CreateLicenseRecordResponse wrapper for the CreateLicenseRecord operation
type CreateLicenseRecordResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // The LicenseRecord instance
 LicenseRecord `presentIn:"body"`

 // For optimistic concurrency control. See `if-match`.
 Etag *string `presentIn:"header" name:"etag"`

 // Unique Oracle-assigned identifier for the asynchronous request. You can use this to query the status of the
asynchronous operation.
 OpcWorkRequestId *string `presentIn:"header" name:"opc-work-request-id"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular
 request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // Location of the resource.
 Location *string `presentIn:"header" name:"location"`
}

func (response CreateLicenseRecordResponse) String() string {
 return common.PointerString(response)
}
```

```
// HTTPResponse implements the OCIResponse interface
func (response CreateLicenseRecordResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview
(https://docs.cloud.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// ProductLicenseConsumerSummary Details of a resource that is consuming a particular product license.
type ProductLicenseConsumerSummary struct {

 // The OCID (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/identifiers.htm) of the resource.
 ResourceId *string `mandatory:"true"
 json:"resourceId"`

 // The display name of the resource.
 ResourceName *string `mandatory:"true" json:"resourceName"`

 // The resource product name.
 ProductName *string `mandatory:"true" json:"productName"`

 // The OCID (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/identifiers.htm) of the compartment that
contains the resource.
 ResourceCompartmentId *string `mandatory:"true" json:"resourceCompartmentId"`

 // The display name of the compartment that contains the resource.
 ResourceCompartmentName *string `mandatory:"true" json:"resourceCompartmentName"`

 // The unit type for the resource.
 ResourceUnitType ResourceUnitEnum `mandatory:"true" json:"resourceUnitType"`
```

```
 // Number of units of the resource
 ResourceUnitCount *float64 `mandatory:"true" json:"resourceUnitCount"`

 // The product license unit.
 LicenseUnitType LicenseUnitEnum `mandatory:"true" json:"licenseUnitType"`

 // Number of license units consumed by the resource.
 LicenseUnitsConsumed
 *float64 `mandatory:"true" json:"licenseUnitsConsumed"`

 // Specifies if the base license is available.
 IsBaseLicenseAvailable *bool `mandatory:"true" json:"isBaseLicenseAvailable"`

 // Specifies if all options are available.
 AreAllOptionsAvailable *bool `mandatory:"true" json:"areAllOptionsAvailable"`

 // Collection of missing product licenses.
 MissingProducts []Product `mandatory:"true" json:"missingProducts"`
}

func (m ProductLicenseConsumerSummary) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m ProductLicenseConsumerSummary) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingResourceUnitEnum(string(m.ResourceUnitType)); !ok && m.ResourceUnitType != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for
 ResourceUnitType: %s. Supported values are: %s.", m.ResourceUnitType,
strings.Join(GetResourceUnitEnumStringValues(), ",")))
 }
 if _, ok := GetMappingLicenseUnitEnum(string(m.LicenseUnitType)); !ok && m.LicenseUnitType != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseUnitType: %s. Supported values
are: %s.", m.LicenseUnitType, strings.Join(GetLicenseUnitEnumStringValues(), ",")))
 }

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
```

```
// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// ListProductLicensesRequest wrapper for the ListProductLicenses operation
//
// # See also
//
// Click https://docs.cloud.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/ListProductLicenses.go.html to see an example of how to use
ListProductLicensesRequest.
type ListProductLicensesRequest struct {

 // The compartment OCID (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/identifiers.htm) used for
the license record, product license, and configuration.
 CompartmentId *string `mandatory:"true"
 contributesTo:"query" name:"compartmentId"`

 // The maximum number of items to return.
 Limit *int `mandatory:"false" contributesTo:"query" name:"limit"`

 // A token representing the position at which to start retrieving results. This must come from the `opc-next-page`
header field of a previous response.
 Page *string `mandatory:"false" contributesTo:"query" name:"page"`

 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Indicates if the given compartment is the root compartment.
 IsCompartmentIdInSubtree *bool `mandatory:"false" contributesTo:"query" name:"isCompartmentIdInSubtree"`

 // The sort order to use, whether `ASC` or `DESC`.
 SortOrder ListProductLicensesSortOrderEnum `mandatory:"false" contributesTo:"query" name:"sortOrder"
omitEmpty:"true"`

 // Specifies the attribute with which
 to sort the rules.
 // Default: `totalLicenseUnitsConsumed`
 // * **totalLicenseUnitsConsumed:** Sorts by totalLicenseUnitsConsumed of ProductLicense.
 SortBy ListProductLicensesSortByEnum `mandatory:"false" contributesTo:"query" name:"sortBy"
```

```
omitEmpty:"true"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request ListProductLicensesRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request ListProductLicensesRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

//
 BinaryRequestBody implements the OCIRequest interface
func (request ListProductLicensesRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request ListProductLicensesRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request ListProductLicensesRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingListProductLicensesSortOrderEnum(string(request.SortOrder)); !ok && request.SortOrder !=
"" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for SortOrder: %s. Supported values are:
%s.", request.SortOrder, strings.Join(GetListProductLicensesSortOrderEnumStringValues(),
 ",")))
 }
 if _, ok := GetMappingListProductLicensesSortByEnum(string(request.SortBy)); !ok && request.SortBy != "" {
```

```
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for SortBy: %s. Supported values are: %s.",
request.SortBy, strings.Join(GetListProductLicensesSortByEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// ListProductLicensesResponse wrapper for the ListProductLicenses operation
type ListProductLicensesResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // A list of ProductLicenseCollection instances
 ProductLicenseCollection `presentIn:"body"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // For pagination of a list of items.
 When paging through a list, if this header appears in the response,
 // then a partial list might have been returned. Include this value as the `page` parameter for the
 // subsequent GET request to get the next batch of items.
 OpcNextPage *string `presentIn:"header" name:"opc-next-page"`
}

func (response ListProductLicensesResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response ListProductLicensesResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}

// ListProductLicensesSortOrderEnum Enum with underlying type: string
type ListProductLicensesSortOrderEnum string

// Set of constants representing the allowable values for ListProductLicensesSortOrderEnum
const (
 ListProductLicensesSortOrderAsc  ListProductLicensesSortOrderEnum = "ASC"
 ListProductLicensesSortOrderDesc ListProductLicensesSortOrderEnum = "DESC"
)

var mappingListProductLicensesSortOrderEnum = map[string]ListProductLicensesSortOrderEnum{
```

```
 "ASC":
  ListProductLicensesSortOrderAsc,
 "DESC": ListProductLicensesSortOrderDesc,
}

var mappingListProductLicensesSortOrderEnumLowerCase = map[string]ListProductLicensesSortOrderEnum{
 "asc":  ListProductLicensesSortOrderAsc,
 "desc": ListProductLicensesSortOrderDesc,
}

// GetListProductLicensesSortOrderEnumValues Enumerates the set of values for
ListProductLicensesSortOrderEnum
func GetListProductLicensesSortOrderEnumValues() []ListProductLicensesSortOrderEnum {
 values := make([]ListProductLicensesSortOrderEnum, 0)
 for _, v := range mappingListProductLicensesSortOrderEnum {
  values = append(values, v)
 }
 return values
}

// GetListProductLicensesSortOrderEnumStringValues Enumerates the set of values in String for
ListProductLicensesSortOrderEnum
func GetListProductLicensesSortOrderEnumStringValues() []string {
 return []string{
  "ASC",
  "DESC",
 }
}

// GetMappingListProductLicensesSortOrderEnum performs case Insensitive comparison on enum value and return
 the desired enum
func GetMappingListProductLicensesSortOrderEnum(val string) (ListProductLicensesSortOrderEnum, bool) {
 enum, ok := mappingListProductLicensesSortOrderEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}

// ListProductLicensesSortByEnum Enum with underlying type: string
type ListProductLicensesSortByEnum string

// Set of constants representing the allowable values for ListProductLicensesSortByEnum
const (
 ListProductLicensesSortByTotallicenseunitsconsumed ListProductLicensesSortByEnum =
"totalLicenseUnitsConsumed"
)

var mappingListProductLicensesSortByEnum = map[string]ListProductLicensesSortByEnum{
 "totalLicenseUnitsConsumed": ListProductLicensesSortByTotallicenseunitsconsumed,
}
```

```
var mappingListProductLicensesSortByEnumLowerCase = map[string]ListProductLicensesSortByEnum{
 "totallicenseunitsconsumed": ListProductLicensesSortByTotallicenseunitsconsumed,
}

// GetListProductLicensesSortByEnumValues Enumerates the set of values for ListProductLicensesSortByEnum
func
 GetListProductLicensesSortByEnumValues() []ListProductLicensesSortByEnum {
 values := make([]ListProductLicensesSortByEnum, 0)
 for _, v := range mappingListProductLicensesSortByEnum {
  values = append(values, v)
 }
 return values
}

// GetListProductLicensesSortByEnumStringValues Enumerates the set of values in String for
ListProductLicensesSortByEnum
func GetListProductLicensesSortByEnumStringValues() []string {
 return []string{
  "totalLicenseUnitsConsumed",
 }
}

// GetMappingListProductLicensesSortByEnum performs case Insensitive comparison on enum value and return the
desired enum
func GetMappingListProductLicensesSortByEnum(val string) (ListProductLicensesSortByEnum, bool) {
 enum, ok := mappingListProductLicensesSortByEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Identity and Access Management Service API
//
// Use the Identity and Access Management Service API to manage users, groups, identity domains, compartments,
policies, tagging, and limits. For information about managing users, groups, compartments, and policies, see Identity
and Access Management (without identity domains)
(https://docs.cloud.oracle.com/iaas/Content/Identity/Concepts/overview.htm). For information about tagging and
service limits, see Tagging (https://docs.cloud.oracle.com/iaas/Content/Tagging/Concepts/taggingoverview.htm) and
Service Limits (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/servicelimits.htm).
 For information about creating, modifying, and deleting identity domains, see Identity and Access Management
(with identity domains) (https://docs.cloud.oracle.com/iaas/Content/Identity/home.htm).
//

package identity
```

```
import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// AllowedDomainLicenseTypeSummary (For tenancies that support identity domains) The
'AllowedDomainLicenseTypeSummary' object contains information about the license type of the identity domain.
type AllowedDomainLicenseTypeSummary struct {

 // The license type name.
 // Example: "Oracle Apps Premium"
 Name *string `mandatory:"true" json:"name"`

 // The license type identifier.
 // Example: "oracle-apps-premium"
 LicenseType *string `mandatory:"true" json:"licenseType"`

 // The license type description.
 Description *string `mandatory:"true" json:"description"`
}

func (m AllowedDomainLicenseTypeSummary) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns
 an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m AllowedDomainLicenseTypeSummary) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
```

```
Manager Overview
(https://docs.cloud.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// TopUtilizedProductLicenseSummary A summary of the top utilized product licenses.
type TopUtilizedProductLicenseSummary struct {

 // The product license OCID (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/identifiers.htm).
 ProductLicenseId *string `mandatory:"true"
 json:"productLicenseId"`

 // The product type.
 ProductType *string `mandatory:"true" json:"productType"`

 // The product license unit.
 UnitType LicenseUnitEnum `mandatory:"true" json:"unitType"`

 // Number of license units consumed.
 TotalUnitsConsumed *float64 `mandatory:"true" json:"totalUnitsConsumed"`

 // Total number of license units in the product license provided by the user.
 TotalLicenseUnitCount *int `mandatory:"true" json:"totalLicenseUnitCount"`

 // Specifies if the license unit count is unlimited.
 IsUnlimited *bool `mandatory:"true" json:"isUnlimited"`

 // The current product license status.
 Status StatusEnum `mandatory:"true" json:"status"`
}

func (m TopUtilizedProductLicenseSummary) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m TopUtilizedProductLicenseSummary)
 ValidateEnumValue() (bool, error) {
 errMessage := []string{}
```

```
 if _, ok := GetMappingLicenseUnitEnum(string(m.UnitType)); !ok && m.UnitType != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for UnitType: %s. Supported values are: %s.", m.UnitType, strings.Join(GetLicenseUnitEnumStringValues(), ",")))
 }
 if _, ok := GetMappingStatusEnum(string(m.Status)); !ok && m.Status != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for Status: %s. Supported values are: %s.", m.Status, strings.Join(GetStatusEnumStringValues(), ",")))
 }

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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// Code generated. DO NOT EDIT.

// Marketplace Service API
//
// Use the Marketplace API to manage applications in Oracle Cloud Infrastructure Marketplace. For more information, see Overview of Marketplace (https://docs.cloud.oracle.com/Content/Marketplace/Concepts/marketoverview.htm)
//

package marketplace

import (
 "encoding/json"
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// Eula A base object for all types of end user license agreements.
type Eula interface {
}

type eula struct {
 JsonData []byte
 EulaType string `json:"eulaType"`
}

// UnmarshalJSON unmarshals json
func (m *eula) UnmarshalJSON(data []byte) error {
 m.JsonData = data
```

```
 type
 Unmarshalereula eula
 s := struct {
  Model Unmarshalereula
 }{}
 err := json.Unmarshal(data, &s.Model)
 if err != nil {
  return err
 }
 m.EulaType = s.Model.EulaType

 return err
}

// UnmarshalPolymorphicJSON unmarshals polymorphic json
func (m *eula) UnmarshalPolymorphicJSON(data []byte) (interface{}, error) {

 if data == nil || string(data) == "null" {
  return nil, nil
 }

 var err error
 switch m.EulaType {
 case "TEXT":
  mm := TextBasedEula{}
  err = json.Unmarshal(data, &mm)
  return mm, err
 default:
  common.Logf("Recieved unsupported enum value for Eula: %s.", m.EulaType)
  return *m, nil
 }
}

func (m eula) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m eula) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0
 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
```

```
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview
(https://docs.cloud.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// UpdateLicenseRecordDetails The details about updates in the license record.
type UpdateLicenseRecordDetails struct {

 // License record name.
 DisplayName *string `mandatory:"true" json:"displayName"`

 // Specifies if the license record term is perpertual.
 IsPerpetual *bool
 `mandatory:"true" json:"isPerpetual"`

 // Specifies if the license count is unlimited.
 IsUnlimited *bool `mandatory:"true" json:"isUnlimited"`

 // The license record end date in RFC 3339 (https://tools.ietf.org/html/rfc3339)
 // date format.
 // Example: `2018-09-12`
 ExpirationDate *common.SDKTime `mandatory:"false" json:"expirationDate"`

 // The license record support end date in RFC 3339 (https://tools.ietf.org/html/rfc3339)
 // date format.
 // Example: `2018-09-12`
 SupportEndDate *common.SDKTime `mandatory:"false" json:"supportEndDate"`

 // The number of license units added by a user in a license record.
 // Default 1
 LicenseCount *int `mandatory:"false" json:"licenseCount"`
```

```
 // The license record product ID.
 ProductId *string `mandatory:"false" json:"productId"`

 // Simple key-value pair that is applied without any predefined name, type, or scope. Exists for cross-compatibility
only.
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false"
 json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`
}

func (m UpdateLicenseRecordDetails) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m UpdateLicenseRecordDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Oracle Cloud VMware Solution API
//
// Use the Oracle Cloud VMware API to create SDDCs and manage ESXi hosts and software.
// For more information, see Oracle Cloud VMware Solution
(https://docs.cloud.oracle.com/iaas/Content/VMware/Concepts/ocvsoverview.htm).
//

package ocvp

import (
 "strings"
)
```

```
// HcxLicenseStatusEnum Enum with underlying type: string
type HcxLicenseStatusEnum string

// Set of constants representing the allowable values for HcxLicenseStatusEnum
const (
 HcxLicenseStatusAvailable   HcxLicenseStatusEnum = "AVAILABLE"
 HcxLicenseStatusConsumed    HcxLicenseStatusEnum = "CONSUMED"
 HcxLicenseStatusDeactivated
 HcxLicenseStatusEnum = "DEACTIVATED"
 HcxLicenseStatusDeleted     HcxLicenseStatusEnum = "DELETED"
)

var mappingHcxLicenseStatusEnum = map[string]HcxLicenseStatusEnum{
 "AVAILABLE":   HcxLicenseStatusAvailable,
 "CONSUMED":    HcxLicenseStatusConsumed,
 "DEACTIVATED": HcxLicenseStatusDeactivated,
 "DELETED":     HcxLicenseStatusDeleted,
}

var mappingHcxLicenseStatusEnumLowerCase = map[string]HcxLicenseStatusEnum{
 "available":   HcxLicenseStatusAvailable,
 "consumed":    HcxLicenseStatusConsumed,
 "deactivated": HcxLicenseStatusDeactivated,
 "deleted":     HcxLicenseStatusDeleted,
}

// GetHcxLicenseStatusEnumValues Enumerates the set of values for HcxLicenseStatusEnum
func GetHcxLicenseStatusEnumValues() []HcxLicenseStatusEnum {
 values := make([]HcxLicenseStatusEnum, 0)
 for _, v := range mappingHcxLicenseStatusEnum {
  values = append(values, v)
 }
 return values
}

// GetHcxLicenseStatusEnumStringValues Enumerates the set of values in String for HcxLicenseStatusEnum
func GetHcxLicenseStatusEnumStringValues()
 []string {
 return []string{
  "AVAILABLE",
  "CONSUMED",
  "DEACTIVATED",
  "DELETED",
 }
}

// GetMappingHcxLicenseStatusEnum performs case Insensitive comparison on enum value and return the desired
```

```
enum
func GetMappingHcxLicenseStatusEnum(val string) (HcxLicenseStatusEnum, bool) {
 enum, ok := mappingHcxLicenseStatusEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// DeleteLicenseRecordRequest wrapper for the DeleteLicenseRecord operation
//
// # See also
//
// Click https://docs.cloud.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/DeleteLicenseRecord.go.html to see an example of how to use
DeleteLicenseRecordRequest.
type DeleteLicenseRecordRequest struct {

 // Unique license record identifier.
 LicenseRecordId *string `mandatory:"true" contributesTo:"path" name:"licenseRecordId"`

 // The unique Oracle-assigned identifier for the request. If you need to contact
 Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // For optimistic concurrency control. In the PUT or DELETE call for a resource, set the `if-match`
 // parameter to the value of the etag from a previous GET or POST response for that resource.  The resource
 // will be updated or deleted only if the etag you provide matches the resource's current etag value.
 IfMatch *string `mandatory:"false" contributesTo:"header" name:"if-match"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request DeleteLicenseRecordRequest) String() string {
```

```
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request DeleteLicenseRecordRequest) HTTPRequest(method, path string, binaryRequestBody
 *common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request DeleteLicenseRecordRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request DeleteLicenseRecordRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request DeleteLicenseRecordRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if
 len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// DeleteLicenseRecordResponse wrapper for the DeleteLicenseRecord operation
type DeleteLicenseRecordResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // Unique Oracle-assigned identifier for the asynchronous request. You can use this to query the status of the
asynchronous operation.
 OpcWorkRequestId *string `presentIn:"header" name:"opc-work-request-id"`
```

```
 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // Location of the resource.
 Location *string `presentIn:"header" name:"location"`
}

func (response DeleteLicenseRecordResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response DeleteLicenseRecordResponse)
 HTTPResponse() *http.Response {
 return response.RawResponse
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package identity

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// ChangeDomainLicenseTypeRequest wrapper for the ChangeDomainLicenseType operation
//
// # See also
//
// Click https://docs.cloud.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/identity/ChangeDomainLicenseType.go.html to see an example of how to use
ChangeDomainLicenseTypeRequest.
type ChangeDomainLicenseTypeRequest struct {

 // The OCID of the identity domain.
 DomainId *string `mandatory:"true" contributesTo:"path" name:"domainId"`

 // The request object for an update to the license type of the identity domain.
 ChangeDomainLicenseTypeDetails
```

```
 `contributesTo:"body"`

 // Unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // A token that uniquely identifies a request so it can be retried in case of a timeout or
 // server error without risk of executing that same action again. Retry tokens expire after 24
 // hours, but can be invalidated before then due to conflicting operations (e.g., if a resource
 // has been deleted and purged from the system, then a retry of the original creation request
 // may be rejected).
 OpcRetryToken *string `mandatory:"false" contributesTo:"header" name:"opc-retry-token"`

 // For optimistic concurrency control. In the PUT or DELETE call for a resource, set the `if-match`
 // parameter to the value of the etag from a previous GET or POST response for that resource.  The resource
 // will be
 updated or deleted only if the etag you provide matches the resource's current etag value.
 IfMatch *string `mandatory:"false" contributesTo:"header" name:"if-match"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request ChangeDomainLicenseTypeRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request ChangeDomainLicenseTypeRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request ChangeDomainLicenseTypeRequest)
 BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}
```

```
// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request ChangeDomainLicenseTypeRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request ChangeDomainLicenseTypeRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// ChangeDomainLicenseTypeResponse wrapper for the ChangeDomainLicenseType operation
type ChangeDomainLicenseTypeResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // Unique Oracle-assigned identifier for the request.
 If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // The OCID (https://docs.cloud.oracle.com/Content/General/Concepts/identifiers.htm) of the work request.
 OpcWorkRequestId *string `presentIn:"header" name:"opc-work-request-id"`
}

func (response ChangeDomainLicenseTypeResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response ChangeDomainLicenseTypeResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package licensemanager

import (
```

```
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// DeleteProductLicenseRequest wrapper for the DeleteProductLicense operation
//
// # See also
//
// Click https://docs.cloud.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/DeleteProductLicense.go.html to see an example of how to use
DeleteProductLicenseRequest.
type DeleteProductLicenseRequest struct {

 // Unique product license identifier.
 ProductLicenseId *string `mandatory:"true" contributesTo:"path" name:"productLicenseId"`

 // The unique Oracle-assigned identifier for the request. If you need
 to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // For optimistic concurrency control. In the PUT or DELETE call for a resource, set the `if-match`
 // parameter to the value of the etag from a previous GET or POST response for that resource.  The resource
 // will be updated or deleted only if the etag you provide matches the resource's current etag value.
 IfMatch *string `mandatory:"false" contributesTo:"header" name:"if-match"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request DeleteProductLicenseRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request DeleteProductLicenseRequest) HTTPRequest(method, path string,
 binaryRequestBody *common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}
```

```
// BinaryRequestBody implements the OCIRequest interface
func (request DeleteProductLicenseRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request DeleteProductLicenseRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request DeleteProductLicenseRequest) ValidateEnumValue() (bool, error) {
 errMessage
 := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// DeleteProductLicenseResponse wrapper for the DeleteProductLicense operation
type DeleteProductLicenseResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // Unique Oracle-assigned identifier for the asynchronous request. You can use this to query the status of the
asynchronous operation.
 OpcWorkRequestId *string `presentIn:"header" name:"opc-work-request-id"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // Location of the resource.
 Location *string `presentIn:"header" name:"location"`
}

func (response DeleteProductLicenseResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
```

```
func (response
 DeleteProductLicenseResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview
(https://docs.cloud.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// LicenseRecordCollection The license record summary collection.
type LicenseRecordCollection struct {

 // The license record summary collection.
 Items []LicenseRecordSummary `mandatory:"true" json:"items"`
}

func (m LicenseRecordCollection) String() string {
 return common.PointerString(m)
}

//
 ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m LicenseRecordCollection) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
```

```
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// Code generated. DO NOT EDIT.

package identity

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// ListAllowedDomainLicenseTypesRequest wrapper for the ListAllowedDomainLicenseTypes operation
//
// # See also
//
// Click https://docs.cloud.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/identity/ListAllowedDomainLicenseTypes.go.html to see an example of how to use
ListAllowedDomainLicenseTypesRequest.
type ListAllowedDomainLicenseTypesRequest struct {

 // The license type of the identity domain.
 CurrentLicenseTypeName *string `mandatory:"false" contributesTo:"query" name:"currentLicenseTypeName"`

 // Unique Oracle-assigned
 identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request ListAllowedDomainLicenseTypesRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request ListAllowedDomainLicenseTypesRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
```

```
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody
 implements the OCIRequest interface
func (request ListAllowedDomainLicenseTypesRequest) BinaryRequestBody() (*common.OCIReadSeekCloser,
bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request ListAllowedDomainLicenseTypesRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request ListAllowedDomainLicenseTypesRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// ListAllowedDomainLicenseTypesResponse wrapper for the ListAllowedDomainLicenseTypes operation
type ListAllowedDomainLicenseTypesResponse struct {

 // The underlying
 http response
 RawResponse *http.Response

 // The []AllowedDomainLicenseTypeSummary instance
 Items []AllowedDomainLicenseTypeSummary `presentIn:"body"`

 // Unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // For pagination of a list of items. When paging through a list, if this header appears in the response,
 // then a partial list might have been returned. Include this value as the `page` parameter for the
 // subsequent GET request to get the next batch of items.
 OpcNextPage *string `presentIn:"header" name:"opc-next-page"`
```

```
}

func (response ListAllowedDomainLicenseTypesResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response ListAllowedDomainLicenseTypesResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Analytics API
//
// Analytics API.
//

package analytics

import (
 "strings"
)

// LicenseTypeEnum Enum with underlying type: string
type LicenseTypeEnum string

// Set of constants representing the allowable values for LicenseTypeEnum
const (
 LicenseTypeLicenseIncluded     LicenseTypeEnum = "LICENSE_INCLUDED"
 LicenseTypeBringYourOwnLicense LicenseTypeEnum = "BRING_YOUR_OWN_LICENSE"
)

var mappingLicenseTypeEnum = map[string]LicenseTypeEnum{
 "LICENSE_INCLUDED":       LicenseTypeLicenseIncluded,
 "BRING_YOUR_OWN_LICENSE": LicenseTypeBringYourOwnLicense,
}

var mappingLicenseTypeEnumLowerCase = map[string]LicenseTypeEnum{
 "license_included":
       LicenseTypeLicenseIncluded,
 "bring_your_own_license": LicenseTypeBringYourOwnLicense,
}

// GetLicenseTypeEnumValues Enumerates the set of values for LicenseTypeEnum
```

```
func GetLicenseTypeEnumValues() []LicenseTypeEnum {
 values := make([]LicenseTypeEnum, 0)
 for _, v := range mappingLicenseTypeEnum {
  values = append(values, v)
 }
 return values
}

// GetLicenseTypeEnumStringValues Enumerates the set of values in String for LicenseTypeEnum
func GetLicenseTypeEnumStringValues() []string {
 return []string{
  "LICENSE_INCLUDED",
  "BRING_YOUR_OWN_LICENSE",
 }
}

// GetMappingLicenseTypeEnum performs case Insensitive comparison on enum value and return the desired enum
func GetMappingLicenseTypeEnum(val string) (LicenseTypeEnum, bool) {
 enum, ok := mappingLicenseTypeEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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// Code generated. DO NOT EDIT.

// Identity and Access Management Service API
//
// Use the Identity and Access Management Service API to manage users, groups, identity domains, compartments,
policies, tagging, and limits. For information about managing users, groups, compartments, and policies, see Identity
and Access Management (without identity domains)
(https://docs.cloud.oracle.com/iaas/Content/Identity/Concepts/overview.htm). For information about tagging and
service limits, see Tagging (https://docs.cloud.oracle.com/iaas/Content/Tagging/Concepts/taggingoverview.htm) and
Service Limits (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/servicelimits.htm).
 For information about creating, modifying, and deleting identity domains, see Identity and Access Management
(with identity domains) (https://docs.cloud.oracle.com/iaas/Content/Identity/home.htm).
//

package identity

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// ChangeDomainLicenseTypeDetails (For tenancies that support identity domains) Details for updating the license
```

```
type of the identity domain.
type ChangeDomainLicenseTypeDetails struct {

 // The license type of the identity domain.
 LicenseType *string `mandatory:"false" json:"licenseType"`
}

func (m ChangeDomainLicenseTypeDetails) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m ChangeDomainLicenseTypeDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if
 len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// GetLicenseRecordRequest wrapper for the GetLicenseRecord operation
//
// # See also
//
// Click https://docs.cloud.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/GetLicenseRecord.go.html to see an example of how to use
GetLicenseRecordRequest.
type GetLicenseRecordRequest struct {

 // Unique license record identifier.
```

```
 LicenseRecordId *string `mandatory:"true" contributesTo:"path" name:"licenseRecordId"`

 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle about
 a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request GetLicenseRecordRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request GetLicenseRecordRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request GetLicenseRecordRequest) BinaryRequestBody() (*common.OCIReadSeekCloser,
 bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request GetLicenseRecordRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request GetLicenseRecordRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
```

```
 }
 return false, nil
}

// GetLicenseRecordResponse wrapper for the GetLicenseRecord operation
type GetLicenseRecordResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // The LicenseRecord instance
 LicenseRecord `presentIn:"body"`

 // For optimistic concurrency control. See `if-match`.
 Etag
 *string `presentIn:"header" name:"etag"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`
}

func (response GetLicenseRecordResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response GetLicenseRecordResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview
(https://docs.cloud.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
```

```
 "strings"
)

// LicenseMetric Overview of product license and resources usage.
type LicenseMetric struct {

 // Total number of product licenses in a particular compartment.
 TotalProductLicenseCount *int `mandatory:"true" json:"totalProductLicenseCount"`

 // Total number of BYOL instances in
 a particular compartment.
 TotalByolInstanceCount *int `mandatory:"true" json:"totalByolInstanceCount"`

 // Total number of License Included (LI) instances in a particular compartment.
 TotalLicenseIncludedInstanceCount *int `mandatory:"true" json:"totalLicenseIncludedInstanceCount"`

 // Total number of license records that will expire within 90 days in a particular compartment.
 LicenseRecordExpiringSoonCount *int `mandatory:"true" json:"licenseRecordExpiringSoonCount"`
}

func (m LicenseMetric) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m LicenseMetric) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
```

```
)

// ListLicenseRecordsRequest wrapper for the ListLicenseRecords operation
//
// # See also
//
// Click https://docs.cloud.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/ListLicenseRecords.go.html to see an example of how to use
ListLicenseRecordsRequest.
type ListLicenseRecordsRequest struct {

 // Unique product license identifier.
 ProductLicenseId *string `mandatory:"true" contributesTo:"query" name:"productLicenseId"`

 // The maximum number of items to return.
 Limit *int `mandatory:"false" contributesTo:"query"
 name:"limit"`

 // A token representing the position at which to start retrieving results. This must come from the `opc-next-page`
header field of a previous response.
 Page *string `mandatory:"false" contributesTo:"query" name:"page"`

 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // The sort order to use, whether `ASC` or `DESC`.
 SortOrder ListLicenseRecordsSortOrderEnum `mandatory:"false" contributesTo:"query" name:"sortOrder"
omitEmpty:"true"`

 // Specifies the attribute with which to sort the rules.
 // Default: `expirationDate`
 // * **expirationDate:** Sorts by expiration date of the license record.
 SortBy ListLicenseRecordsSortByEnum `mandatory:"false" contributesTo:"query" name:"sortBy"
omitEmpty:"true"`

 // Metadata about the request. This information will not be
 transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request ListLicenseRecordsRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request ListLicenseRecordsRequest) HTTPRequest(method, path string, binaryRequestBody
```

```
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request ListLicenseRecordsRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request ListLicenseRecordsRequest)
 RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request ListLicenseRecordsRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingListLicenseRecordsSortOrderEnum(string(request.SortOrder)); !ok && request.SortOrder !=
"" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for SortOrder: %s. Supported values are:
%s.", request.SortOrder, strings.Join(GetListLicenseRecordsSortOrderEnumStringValues(), ",")))
 }
 if _, ok := GetMappingListLicenseRecordsSortByEnum(string(request.SortBy)); !ok && request.SortBy != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for SortBy: %s. Supported values are: %s.",
request.SortBy, strings.Join(GetListLicenseRecordsSortByEnumStringValues(),
 ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// ListLicenseRecordsResponse wrapper for the ListLicenseRecords operation
type ListLicenseRecordsResponse struct {

 // The underlying http response
```

```
 RawResponse *http.Response

 // A list of LicenseRecordCollection instances
 LicenseRecordCollection `presentIn:"body"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // For pagination of a list of items. When paging through a list, if this header appears in the response,
 // then a partial list might have been returned. Include this value as the `page` parameter for the
 // subsequent GET request to get the next batch of items.
 OpcNextPage *string `presentIn:"header" name:"opc-next-page"`
}

func (response ListLicenseRecordsResponse) String()
 string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response ListLicenseRecordsResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}

// ListLicenseRecordsSortOrderEnum Enum with underlying type: string
type ListLicenseRecordsSortOrderEnum string

// Set of constants representing the allowable values for ListLicenseRecordsSortOrderEnum
const (
 ListLicenseRecordsSortOrderAsc  ListLicenseRecordsSortOrderEnum = "ASC"
 ListLicenseRecordsSortOrderDesc ListLicenseRecordsSortOrderEnum = "DESC"
)

var mappingListLicenseRecordsSortOrderEnum = map[string]ListLicenseRecordsSortOrderEnum{
 "ASC":  ListLicenseRecordsSortOrderAsc,
 "DESC": ListLicenseRecordsSortOrderDesc,
}

var mappingListLicenseRecordsSortOrderEnumLowerCase = map[string]ListLicenseRecordsSortOrderEnum{
 "asc":  ListLicenseRecordsSortOrderAsc,
 "desc": ListLicenseRecordsSortOrderDesc,
}

// GetListLicenseRecordsSortOrderEnumValues Enumerates the set of
 values for ListLicenseRecordsSortOrderEnum
func GetListLicenseRecordsSortOrderEnumValues() []ListLicenseRecordsSortOrderEnum {
 values := make([]ListLicenseRecordsSortOrderEnum, 0)
```

```
 for _, v := range mappingListLicenseRecordsSortOrderEnum {
  values = append(values, v)
 }
 return values
}

// GetListLicenseRecordsSortOrderEnumStringValues Enumerates the set of values in String for
ListLicenseRecordsSortOrderEnum
func GetListLicenseRecordsSortOrderEnumStringValues() []string {
 return []string{
  "ASC",
  "DESC",
 }
}

// GetMappingListLicenseRecordsSortOrderEnum performs case Insensitive comparison on enum value and return
the desired enum
func GetMappingListLicenseRecordsSortOrderEnum(val string) (ListLicenseRecordsSortOrderEnum, bool) {
 enum, ok := mappingListLicenseRecordsSortOrderEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}

// ListLicenseRecordsSortByEnum Enum with underlying type: string
type ListLicenseRecordsSortByEnum string

// Set of constants representing the allowable
 values for ListLicenseRecordsSortByEnum
const (
 ListLicenseRecordsSortByExpirationdate ListLicenseRecordsSortByEnum = "expirationDate"
)

var mappingListLicenseRecordsSortByEnum = map[string]ListLicenseRecordsSortByEnum{
 "expirationDate": ListLicenseRecordsSortByExpirationdate,
}

var mappingListLicenseRecordsSortByEnumLowerCase = map[string]ListLicenseRecordsSortByEnum{
 "expirationdate": ListLicenseRecordsSortByExpirationdate,
}

// GetListLicenseRecordsSortByEnumValues Enumerates the set of values for ListLicenseRecordsSortByEnum
func GetListLicenseRecordsSortByEnumValues() []ListLicenseRecordsSortByEnum {
 values := make([]ListLicenseRecordsSortByEnum, 0)
 for _, v := range mappingListLicenseRecordsSortByEnum {
  values = append(values, v)
 }
 return values
}
```

```
// GetListLicenseRecordsSortByEnumStringValues Enumerates the set of values in String for
ListLicenseRecordsSortByEnum
func GetListLicenseRecordsSortByEnumStringValues() []string {
 return []string{
  "expirationDate",
 }
}

//
 GetMappingListLicenseRecordsSortByEnum performs case Insensitive comparison on enum value and return the
desired enum
func GetMappingListLicenseRecordsSortByEnum(val string) (ListLicenseRecordsSortByEnum, bool) {
 enum, ok := mappingListLicenseRecordsSortByEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// BulkUploadLicenseRecordsRequest wrapper for the BulkUploadLicenseRecords operation
//
// # See also
//
// Click https://docs.cloud.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/BulkUploadLicenseRecords.go.html to see an example of how to use
BulkUploadLicenseRecordsRequest.
type BulkUploadLicenseRecordsRequest struct {

 // Details required for the bulk upload of product licenses and license records.
 BulkUploadLicenseRecordsDetails `contributesTo:"body"`

 // The unique Oracle-assigned identifier
 for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Metadata about the request. This information will not be transmitted to the service, but
```

```
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request BulkUploadLicenseRecordsRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request BulkUploadLicenseRecordsRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func
 (request BulkUploadLicenseRecordsRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request BulkUploadLicenseRecordsRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request BulkUploadLicenseRecordsRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// BulkUploadLicenseRecordsResponse wrapper for the BulkUploadLicenseRecords operation
type BulkUploadLicenseRecordsResponse struct {

 // The underlying http response
```

```
 RawResponse *http.Response

 // The BulkUploadResponse
 instance
 BulkUploadResponse `presentIn:"body"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`
}

func (response BulkUploadLicenseRecordsResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response BulkUploadLicenseRecordsResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview
(https://docs.cloud.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// TopUtilizedProductLicenseCollection A collection of top utilized product licenses.
type TopUtilizedProductLicenseCollection struct {

 // Collection of top utilized product licenses.
 Items []TopUtilizedProductLicenseSummary `mandatory:"true" json:"items"`
}

func (m TopUtilizedProductLicenseCollection)
```

```
 String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m TopUtilizedProductLicenseCollection) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview
(https://docs.cloud.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// ProductLicenseCollection The product license summary collection.
type ProductLicenseCollection struct {

 // The product license summary collection.
 Items []ProductLicenseSummary `mandatory:"true" json:"items"`
}

func (m ProductLicenseCollection) String() string {
 return common.PointerString(m)
}

//
```

```
 ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m ProductLicenseCollection) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Identity and Access Management Service API
//
// Use the Identity and Access Management Service API to manage users, groups, identity domains, compartments,
policies, tagging, and limits. For information about managing users, groups, compartments, and policies, see Identity
and Access Management (without identity domains)
(https://docs.cloud.oracle.com/iaas/Content/Identity/Concepts/overview.htm). For information about tagging and
service limits, see Tagging (https://docs.cloud.oracle.com/iaas/Content/Tagging/Concepts/taggingoverview.htm) and
Service Limits (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/servicelimits.htm).
 For information about creating, modifying, and deleting identity domains, see Identity and Access Management
(with identity domains) (https://docs.cloud.oracle.com/iaas/Content/Identity/home.htm).
//

package identity

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// ChangeTasDomainLicenseTypeDetails (For tenancies that support identity domains) Update the identity domain
license type.
type ChangeTasDomainLicenseTypeDetails struct {

 // The license type of the identity domain.
 LicenseType *string `mandatory:"false" json:"licenseType"`
}

func (m ChangeTasDomainLicenseTypeDetails) String() string {
 return common.PointerString(m)
}
```

```
// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m ChangeTasDomainLicenseTypeDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage)
 > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview
(https://docs.cloud.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// ProductLicenseSummary The product license summary.
type ProductLicenseSummary struct {

 // The product license OCID (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/identifiers.htm).
 Id *string `mandatory:"true" json:"id"`

 // The compartment OCID (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/identifiers.htm)
 where the product license is created.
 CompartmentId *string `mandatory:"true" json:"compartmentId"`

 // The current product license status.
 Status StatusEnum `mandatory:"true" json:"status"`

 // The product license unit.
```

```
LicenseUnit LicenseUnitEnum `mandatory:"true" json:"licenseUnit"`

// Specifies whether the vendor is Oracle or a third party.
IsVendorOracle *bool `mandatory:"true" json:"isVendorOracle"`

// License record name
DisplayName *string `mandatory:"true" json:"displayName"`

// Status description for the current product license status.
StatusDescription *string `mandatory:"false" json:"statusDescription"`

// The current product license state.
LifecycleState LifeCycleStateEnum `mandatory:"false" json:"lifecycleState,omitempty"`

// The total number of licenses available for the product license, calculated by adding up all the license counts for
active license records associated with the product license.
TotalActiveLicenseUnitCount
*int `mandatory:"false" json:"totalActiveLicenseUnitCount"`

// The number of license units consumed. Updated after each allocation run.
TotalLicenseUnitsConsumed *float64 `mandatory:"false" json:"totalLicenseUnitsConsumed"`

// The number of license records associated with the product license.
TotalLicenseRecordCount *int `mandatory:"false" json:"totalLicenseRecordCount"`

// The number of active license records associated with the product license.
ActiveLicenseRecordCount *int `mandatory:"false" json:"activeLicenseRecordCount"`

// Specifies whether or not the product license is oversubscribed.
IsOverSubscribed *bool `mandatory:"false" json:"isOverSubscribed"`

// Specifies if the license unit count is unlimited.
IsUnlimited *bool `mandatory:"false" json:"isUnlimited"`

// The vendor of the ProductLicense
VendorName *string `mandatory:"false" json:"vendorName"`

// The time the product license was created. An RFC 3339 (https://tools.ietf.org/html/rfc3339)-formatted
datetime string.
TimeCreated *common.SDKTime `mandatory:"false" json:"timeCreated"`

// The time the product license was updated. An RFC 3339 (https://tools.ietf.org/html/rfc3339)-formatted datetime
string.
TimeUpdated *common.SDKTime `mandatory:"false" json:"timeUpdated"`

// The images associated with the product license.
Images []ImageResponse `mandatory:"false" json:"images"`
```

```
 // Simple key-value pair that is applied without any predefined name, type, or scope. Exists for cross-compatibility
only.
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`

 // Usage of system tag keys. These predefined keys are scoped to namespaces.
 // Example: `{"orcl-cloud": {"free-tier-retained":
 "true"}}`
 SystemTags map[string]map[string]interface{} `mandatory:"false" json:"systemTags"`
}

func (m ProductLicenseSummary) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m ProductLicenseSummary) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingStatusEnum(string(m.Status)); !ok && m.Status != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for Status: %s. Supported values are: %s.",
m.Status, strings.Join(GetStatusEnumStringValues(), ",")))
 }
 if _, ok := GetMappingLicenseUnitEnum(string(m.LicenseUnit)); !ok && m.LicenseUnit != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseUnit: %s. Supported values are:
%s.", m.LicenseUnit, strings.Join(GetLicenseUnitEnumStringValues(),
 ",")))
 }

 if _, ok := GetMappingLifeCycleStateEnum(string(m.LifecycleState)); !ok && m.LifecycleState != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LifecycleState: %s. Supported values
are: %s.", m.LifecycleState, strings.Join(GetLifeCycleStateEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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// Code generated. DO NOT EDIT.
```

```
// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview
(https://docs.cloud.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// LicenseRecord License record summary.
type LicenseRecord struct {

 // The license record OCID (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/identifiers.htm).
 Id *string `mandatory:"true" json:"id"`

 // The license record display name. Avoid entering confidential
 information.
 DisplayName *string `mandatory:"true" json:"displayName"`

 // Specifies if the license count is unlimited.
 IsUnlimited *bool `mandatory:"true" json:"isUnlimited"`

 // Specifies if the license record term is perpertual.
 IsPerpetual *bool `mandatory:"true" json:"isPerpetual"`

 // The current license record state.
 LifecycleState LifeCycleStateEnum `mandatory:"true" json:"lifecycleState"`

 // The product license OCID (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/identifiers.htm) with
which the license record is associated.
 ProductLicenseId *string `mandatory:"false" json:"productLicenseId"`

 // The compartment OCID (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/identifiers.htm) where the
license record is created.
 CompartmentId *string `mandatory:"false" json:"compartmentId"`

 // The license record product ID.
 ProductId *string `mandatory:"false" json:"productId"`

 // The number of license units added by the user for the given license
```

```
 record.
 // Default 1
 LicenseCount *int `mandatory:"false" json:"licenseCount"`

 // The license record end date in RFC 3339 (https://tools.ietf.org/html/rfc3339)
 // date format.
 // Example: `2018-09-12`
 ExpirationDate *common.SDKTime `mandatory:"false" json:"expirationDate"`

 // The license record support end date in RFC 3339 (https://tools.ietf.org/html/rfc3339)
 // date format.
 // Example: `2018-09-12`
 SupportEndDate *common.SDKTime `mandatory:"false" json:"supportEndDate"`

 // The time the license record was created. An RFC 3339 (https://tools.ietf.org/html/rfc3339)-formatted datetime
string.
 TimeCreated *common.SDKTime `mandatory:"false" json:"timeCreated"`

 // The time the license record was updated. An RFC 3339 (https://tools.ietf.org/html/rfc3339)-formatted datetime
string.
 TimeUpdated *common.SDKTime `mandatory:"false" json:"timeUpdated"`

 // The product license unit.
 LicenseUnit LicenseUnitEnum `mandatory:"false" json:"licenseUnit,omitempty"`

 // The product
 license name with which the license record is associated.
 ProductLicense *string `mandatory:"false" json:"productLicense"`

 // Simple key-value pair that is applied without any predefined name, type, or scope. Exists for cross-compatibility
only.
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`

 // Usage of system tag keys. These predefined keys are scoped to namespaces.
 // Example: `{"orcl-cloud": {"free-tier-retained": "true"}}`
 SystemTags map[string]map[string]interface{} `mandatory:"false" json:"systemTags"`
}

func (m LicenseRecord) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
```

```
// This function is being called
 during constructing API request process
// Not recommended for calling this function directly
func (m LicenseRecord) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingLifeCycleStateEnum(string(m.LifecycleState)); !ok && m.LifecycleState != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LifecycleState: %s. Supported values
are: %s.", m.LifecycleState, strings.Join(GetLifeCycleStateEnumStringValues(), ",")))
 }

 if _, ok := GetMappingLicenseUnitEnum(string(m.LicenseUnit)); !ok && m.LicenseUnit != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseUnit: %s. Supported values are:
%s.", m.LicenseUnit, strings.Join(GetLicenseUnitEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// CreateProductLicenseRequest wrapper for the CreateProductLicense operation
//
// # See also
//
// Click https://docs.cloud.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/CreateProductLicense.go.html to see an example of how to use
CreateProductLicenseRequest.
type CreateProductLicenseRequest struct {

 // Details for creating a new product license.
 CreateProductLicenseDetails `contributesTo:"body"`

 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 //
```

```
 particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // A token that uniquely identifies a request so it can be retried in case of a timeout or server error without
 // risk of executing that same action again. Retry tokens expire after 24 hours, but can be invalidated before
 // then due to conflicting operations (for example, if a resource has been deleted and purged from the system,
 // then a retry of the original creation request might be rejected).
 OpcRetryToken *string `mandatory:"false" contributesTo:"header" name:"opc-retry-token"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request CreateProductLicenseRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func
 (request CreateProductLicenseRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request CreateProductLicenseRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request CreateProductLicenseRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func
```

```
 (request CreateProductLicenseRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// CreateProductLicenseResponse wrapper for the CreateProductLicense operation
type CreateProductLicenseResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // The ProductLicense instance
 ProductLicense `presentIn:"body"`

 // For optimistic concurrency control. See `if-match`.
 Etag *string `presentIn:"header" name:"etag"`

 // Unique Oracle-assigned identifier for the asynchronous request. You can use this to query the status of the
asynchronous operation.
 OpcWorkRequestId *string `presentIn:"header" name:"opc-work-request-id"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // Location
 of the resource.
 Location *string `presentIn:"header" name:"location"`
}

func (response CreateProductLicenseResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response CreateProductLicenseResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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```

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package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// GetProductLicenseRequest wrapper for the GetProductLicense operation
//
// # See also
//
// Click https://docs.cloud.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/GetProductLicense.go.html to see an example of how to use
GetProductLicenseRequest.
type GetProductLicenseRequest struct {

 // Unique product license identifier.
 ProductLicenseId *string `mandatory:"true" contributesTo:"path" name:"productLicenseId"`

 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle
 about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request GetProductLicenseRequest) String() string {
 return common.PointerString(request)
```

```
}

// HTTPRequest implements the OCIRequest interface
func (request GetProductLicenseRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request GetProductLicenseRequest) BinaryRequestBody()
 (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request GetProductLicenseRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request GetProductLicenseRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// GetProductLicenseResponse wrapper for the GetProductLicense operation
type GetProductLicenseResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // The ProductLicense instance
 ProductLicense `presentIn:"body"`

 // For optimistic concurrency control. See
```

```
 `if-match`.
 Etag *string `presentIn:"header" name:"etag"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`
}

func (response GetProductLicenseResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response GetProductLicenseResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// ListTopUtilizedProductLicensesRequest wrapper for the ListTopUtilizedProductLicenses operation
//
// # See also
//
// Click https://docs.cloud.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/ListTopUtilizedProductLicenses.go.html to see an example of how to use
ListTopUtilizedProductLicensesRequest.
type ListTopUtilizedProductLicensesRequest struct {

 // The compartment OCID (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/identifiers.htm) used for
the license record, product license, and
 configuration.
 CompartmentId *string `mandatory:"true" contributesTo:"query" name:"compartmentId"`

 // The maximum number of items to return.
 Limit *int `mandatory:"false" contributesTo:"query" name:"limit"`
```

```
 // A token representing the position at which to start retrieving results. This must come from the `opc-next-page`
header field of a previous response.
 Page *string `mandatory:"false" contributesTo:"query" name:"page"`

 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Indicates if the given compartment is the root compartment.
 IsCompartmentIdInSubtree *bool `mandatory:"false" contributesTo:"query" name:"isCompartmentIdInSubtree"`

 // The sort order to use, whether `ASC` or `DESC`.
 SortOrder ListTopUtilizedProductLicensesSortOrderEnum `mandatory:"false" contributesTo:"query"
name:"sortOrder"
 omitEmpty:"true"`

 // Specifies the attribute with which to sort the rules.
 // Default: `totalLicenseUnitsConsumed`
 // * **totalLicenseUnitsConsumed:** Sorts by totalLicenseUnitsConsumed of ProductLicense.
 SortBy ListTopUtilizedProductLicensesSortByEnum `mandatory:"false" contributesTo:"query" name:"sortBy"
omitEmpty:"true"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request ListTopUtilizedProductLicensesRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request ListTopUtilizedProductLicensesRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return
 common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request, extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request ListTopUtilizedProductLicensesRequest) BinaryRequestBody() (*common.OCIReadSeekCloser,
bool) {

 return nil, false
```

```
}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request ListTopUtilizedProductLicensesRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request ListTopUtilizedProductLicensesRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingListTopUtilizedProductLicensesSortOrderEnum(string(request.SortOrder)); !ok &&
request.SortOrder != "" {
  errMessage =
 append(errMessage, fmt.Sprintf("unsupported enum value for SortOrder: %s. Supported values are: %s.",
request.SortOrder, strings.Join(GetListTopUtilizedProductLicensesSortOrderEnumStringValues(), ",")))
 }
 if _, ok := GetMappingListTopUtilizedProductLicensesSortByEnum(string(request.SortBy)); !ok &&
request.SortBy != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for SortBy: %s. Supported values are: %s.",
request.SortBy, strings.Join(GetListTopUtilizedProductLicensesSortByEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// ListTopUtilizedProductLicensesResponse wrapper for the ListTopUtilizedProductLicenses operation
type ListTopUtilizedProductLicensesResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // A list of TopUtilizedProductLicenseCollection instances
 TopUtilizedProductLicenseCollection `presentIn:"body"`

 // Unique Oracle-assigned
 identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // For pagination of a list of items. When paging through a list, if this header appears in the response,
 // then a partial list might have been returned. Include this value as the `page` parameter for the
 // subsequent GET request to get the next batch of items.
 OpcNextPage *string `presentIn:"header" name:"opc-next-page"`
```

```
}

func (response ListTopUtilizedProductLicensesResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response ListTopUtilizedProductLicensesResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}

// ListTopUtilizedProductLicensesSortOrderEnum Enum with underlying type: string
type ListTopUtilizedProductLicensesSortOrderEnum string

// Set of constants representing the allowable values
 for ListTopUtilizedProductLicensesSortOrderEnum
const (
 ListTopUtilizedProductLicensesSortOrderAsc  ListTopUtilizedProductLicensesSortOrderEnum = "ASC"
 ListTopUtilizedProductLicensesSortOrderDesc ListTopUtilizedProductLicensesSortOrderEnum = "DESC"
)

var mappingListTopUtilizedProductLicensesSortOrderEnum =
map[string]ListTopUtilizedProductLicensesSortOrderEnum{
 "ASC":  ListTopUtilizedProductLicensesSortOrderAsc,
 "DESC": ListTopUtilizedProductLicensesSortOrderDesc,
}

var mappingListTopUtilizedProductLicensesSortOrderEnumLowerCase =
map[string]ListTopUtilizedProductLicensesSortOrderEnum{
 "asc":  ListTopUtilizedProductLicensesSortOrderAsc,
 "desc": ListTopUtilizedProductLicensesSortOrderDesc,
}

// GetListTopUtilizedProductLicensesSortOrderEnumValues Enumerates the set of values for
ListTopUtilizedProductLicensesSortOrderEnum
func GetListTopUtilizedProductLicensesSortOrderEnumValues() []ListTopUtilizedProductLicensesSortOrderEnum
{
 values := make([]ListTopUtilizedProductLicensesSortOrderEnum,
 0)
 for _, v := range mappingListTopUtilizedProductLicensesSortOrderEnum {
  values = append(values, v)
 }
 return values
}

// GetListTopUtilizedProductLicensesSortOrderEnumStringValues Enumerates the set of values in String for
ListTopUtilizedProductLicensesSortOrderEnum
func GetListTopUtilizedProductLicensesSortOrderEnumStringValues() []string {
```

```
 return []string{
  "ASC",
  "DESC",
 }
}

// GetMappingListTopUtilizedProductLicensesSortOrderEnum performs case Insensitive comparison on enum value
and return the desired enum
func GetMappingListTopUtilizedProductLicensesSortOrderEnum(val string)
(ListTopUtilizedProductLicensesSortOrderEnum, bool) {
 enum, ok := mappingListTopUtilizedProductLicensesSortOrderEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}

// ListTopUtilizedProductLicensesSortByEnum Enum with underlying type: string
type ListTopUtilizedProductLicensesSortByEnum string

// Set of constants representing the allowable values for ListTopUtilizedProductLicensesSortByEnum
const
 (
 ListTopUtilizedProductLicensesSortByTotallicenseunitsconsumed ListTopUtilizedProductLicensesSortByEnum =
"totalLicenseUnitsConsumed"
)

var mappingListTopUtilizedProductLicensesSortByEnum =
map[string]ListTopUtilizedProductLicensesSortByEnum{
 "totalLicenseUnitsConsumed": ListTopUtilizedProductLicensesSortByTotallicenseunitsconsumed,
}

var mappingListTopUtilizedProductLicensesSortByEnumLowerCase =
map[string]ListTopUtilizedProductLicensesSortByEnum{
 "totallicenseunitsconsumed": ListTopUtilizedProductLicensesSortByTotallicenseunitsconsumed,
}

// GetListTopUtilizedProductLicensesSortByEnumValues Enumerates the set of values for
ListTopUtilizedProductLicensesSortByEnum
func GetListTopUtilizedProductLicensesSortByEnumValues() []ListTopUtilizedProductLicensesSortByEnum {
 values := make([]ListTopUtilizedProductLicensesSortByEnum, 0)
 for _, v := range mappingListTopUtilizedProductLicensesSortByEnum {
  values = append(values, v)
 }
 return values
}

// GetListTopUtilizedProductLicensesSortByEnumStringValues
 Enumerates the set of values in String for ListTopUtilizedProductLicensesSortByEnum
func GetListTopUtilizedProductLicensesSortByEnumStringValues() []string {
 return []string{
```

```
  "totalLicenseUnitsConsumed",
 }
}

// GetMappingListTopUtilizedProductLicensesSortByEnum performs case Insensitive comparison on enum value
and return the desired enum
func GetMappingListTopUtilizedProductLicensesSortByEnum(val string)
(ListTopUtilizedProductLicensesSortByEnum, bool) {
 enum, ok := mappingListTopUtilizedProductLicensesSortByEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Java Management Service API
//
// API for the Java Management Service. Use this API to view, create, and manage Fleets.
//

package jms

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// JavaLicense Information about a license type for Java.
type JavaLicense struct {

 // Commonly used name for the license type.
 DisplayName *string `mandatory:"true" json:"displayName"`

 // License Type
 LicenseType LicenseTypeEnum `mandatory:"true" json:"licenseType"`

 // Publicly accessible license URL containing the detailed terms and conditions.
 LicenseUrl *string `mandatory:"true" json:"licenseUrl"`
}

func
 (m JavaLicense) String() string {
 return common.PointerString(m)
}
```

```
// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m JavaLicense) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingLicenseTypeEnum(string(m.LicenseType)); !ok && m.LicenseType != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseType: %s. Supported values are:
%s.", m.LicenseType, strings.Join(GetLicenseTypeEnumStringValues(), ",")))
 }

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview
(https://docs.cloud.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// CreateProductLicenseDetails Details for creating a new product license.
type CreateProductLicenseDetails struct {

 // The compartment OCID (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/identifiers.htm) where
product licenses are created.
 CompartmentId *string
 `mandatory:"true" json:"compartmentId"`

 // Specifies if the product license vendor is Oracle or a third party.
 IsVendorOracle *bool `mandatory:"true" json:"isVendorOracle"`

 // Name of the product license.
```

```
 DisplayName *string `mandatory:"true" json:"displayName"`

 // The product license unit.
 LicenseUnit LicenseUnitEnum `mandatory:"true" json:"licenseUnit"`

 // The product license vendor name, for example: Microsoft, RHEL, and so on.
 VendorName *string `mandatory:"false" json:"vendorName"`

 // The image details associated with the product license.
 Images []ImageDetails `mandatory:"false" json:"images"`

 // Simple key-value pair that is applied without any predefined name, type, or scope. Exists for cross-compatibility
only.
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags
 map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`
}

func (m CreateProductLicenseDetails) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m CreateProductLicenseDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingLicenseUnitEnum(string(m.LicenseUnit)); !ok && m.LicenseUnit != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseUnit: %s. Supported values are:
%s.", m.LicenseUnit, strings.Join(GetLicenseUnitEnumStringValues(), ",")))
 }

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Identity Service
```

```
//
// API for the Identity Dataplane
//

package identitydataplane

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// Permission The representation of Permission
type Permission struct {

 // The name of the permission.
 P *string `mandatory:"true" json:"p"`
}

func (m Permission) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m Permission) ValidateEnumValue() (bool,
 error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
```

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// Code generated. DO NOT EDIT.

```
// Access Governance APIs
//
// Use the Oracle Access Governance API to create, view, and manage GovernanceInstances.
//

package accessgovernancecp
```

```
import (
 "strings"
)

// LicenseTypeEnum Enum with underlying type: string
type LicenseTypeEnum string

// Set of constants representing the allowable values for LicenseTypeEnum
const (
 LicenseTypeNewLicense          LicenseTypeEnum = "NEW_LICENSE"
 LicenseTypeBringYourOwnLicense LicenseTypeEnum = "BRING_YOUR_OWN_LICENSE"
 LicenseTypeAgOracleWorkloads   LicenseTypeEnum = "AG_ORACLE_WORKLOADS"
 LicenseTypeAgOci               LicenseTypeEnum = "AG_OCI"
)

var mappingLicenseTypeEnum
 = map[string]LicenseTypeEnum{
 "NEW_LICENSE":            LicenseTypeNewLicense,
 "BRING_YOUR_OWN_LICENSE": LicenseTypeBringYourOwnLicense,
 "AG_ORACLE_WORKLOADS":    LicenseTypeAgOracleWorkloads,
 "AG_OCI":                 LicenseTypeAgOci,
}

var mappingLicenseTypeEnumLowerCase = map[string]LicenseTypeEnum{
 "new_license":            LicenseTypeNewLicense,
 "bring_your_own_license": LicenseTypeBringYourOwnLicense,
 "ag_oracle_workloads":    LicenseTypeAgOracleWorkloads,
 "ag_oci":                 LicenseTypeAgOci,
}

// GetLicenseTypeEnumValues Enumerates the set of values for LicenseTypeEnum
func GetLicenseTypeEnumValues() []LicenseTypeEnum {
 values := make([]LicenseTypeEnum, 0)
 for _, v := range mappingLicenseTypeEnum {
  values = append(values, v)
 }
 return values
}

// GetLicenseTypeEnumStringValues Enumerates the set of values in String for LicenseTypeEnum
func GetLicenseTypeEnumStringValues() []string {
 return []string{
  "NEW_LICENSE",
  "BRING_YOUR_OWN_LICENSE",
  "AG_ORACLE_WORKLOADS",
  "AG_OCI",
 }
}
```

```
//
 GetMappingLicenseTypeEnum performs case Insensitive comparison on enum value and return the desired enum
func GetMappingLicenseTypeEnum(val string) (LicenseTypeEnum, bool) {
 enum, ok := mappingLicenseTypeEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview
(https://docs.cloud.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// CreateLicenseRecordDetails The details about the new license record.
type CreateLicenseRecordDetails struct {

 // License record name.
 DisplayName *string `mandatory:"true" json:"displayName"`

 // Specifies if the license record term is perpertual.
 IsPerpetual *bool `mandatory:"true"
 json:"isPerpetual"`

 // Specifies if the license count is unlimited.
 IsUnlimited *bool `mandatory:"true" json:"isUnlimited"`

 // The license record end date in RFC 3339 (https://tools.ietf.org/html/rfc3339)
 // date format.
 // Example: `2018-09-12`
 ExpirationDate *common.SDKTime `mandatory:"false" json:"expirationDate"`

 // The license record support end date in RFC 3339 (https://tools.ietf.org/html/rfc3339)
```

```
 // date format.
 // Example: `2018-09-12`
 SupportEndDate *common.SDKTime `mandatory:"false" json:"supportEndDate"`

 // The number of license units added by a user in a license record.
 // Default 1
 LicenseCount *int `mandatory:"false" json:"licenseCount"`

 // The license record product ID.
 ProductId *string `mandatory:"false" json:"productId"`

 // Simple key-value pair that is applied without any predefined name, type, or scope. Exists for cross-compatibility
only.
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 //
 Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`
}

func (m CreateLicenseRecordDetails) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m CreateLicenseRecordDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
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// Code generated. DO NOT EDIT.

package ocvp

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
```

```
 "net/http"
 "strings"
)

// RefreshHcxLicenseStatusRequest wrapper for the RefreshHcxLicenseStatus operation
//
// # See also
//
// Click https://docs.cloud.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/ocvp/RefreshHcxLicenseStatus.go.html to see an example of how to use
RefreshHcxLicenseStatusRequest.
type RefreshHcxLicenseStatusRequest struct {

 // The OCID (https://docs.cloud.oracle.com/Content/General/Concepts/identifiers.htm) of the SDDC.
 SddcId *string `mandatory:"true" contributesTo:"path" name:"sddcId"`

 // A token that uniquely identifies
 a request so it can be retried in case of a timeout or
 // server error without risk of executing that same action again. Retry tokens expire after 24
 // hours, but can be invalidated before then due to conflicting operations (for example, if a resource
 // has been deleted and purged from the system, then a retry of the original creation request
 // may be rejected).
 OpcRetryToken *string `mandatory:"false" contributesTo:"header" name:"opc-retry-token"`

 // For optimistic concurrency control. In the PUT or DELETE call
 // for a resource, set the `if-match` parameter to the value of the
 // etag from a previous GET or POST response for that resource.
 // The resource will be updated or deleted only if the etag you
 // provide matches the resource's current etag value.
 IfMatch *string `mandatory:"false" contributesTo:"header" name:"if-match"`

 // Unique identifier for the request. If you need to contact Oracle about a particular
 // request, please provide the request ID.
 OpcRequestId
 *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request RefreshHcxLicenseStatusRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request RefreshHcxLicenseStatusRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {
```

```
 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request RefreshHcxLicenseStatusRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil,
 false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request RefreshHcxLicenseStatusRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request RefreshHcxLicenseStatusRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// RefreshHcxLicenseStatusResponse wrapper for the RefreshHcxLicenseStatus operation
type RefreshHcxLicenseStatusResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // Unique Oracle-assigned identifier for the asynchronous request. You can use this to query status of the
asynchronous operation.
 OpcWorkRequestId
 *string `presentIn:"header" name:"opc-work-request-id"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`
}
```

```
func (response RefreshHcxLicenseStatusResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response RefreshHcxLicenseStatusResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview
(https://docs.cloud.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// ProductLicense The product license details.
type ProductLicense struct {

 // The product license OCID (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/identifiers.htm).
 Id *string `mandatory:"true" json:"id"`

 // The compartment OCID (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/identifiers.htm)
 where the product license is created.
 CompartmentId *string `mandatory:"true" json:"compartmentId"`

 // The current product license status.
 Status StatusEnum `mandatory:"true" json:"status"`

 // The product license unit.
 LicenseUnit LicenseUnitEnum `mandatory:"true" json:"licenseUnit"`

 // Specifies whether the vendor is Oracle or a third party.
 IsVendorOracle *bool `mandatory:"true" json:"isVendorOracle"`
```

```
// License record name
DisplayName *string `mandatory:"true" json:"displayName"`

// Status description for the current product license status.
StatusDescription *string `mandatory:"false" json:"statusDescription"`

// The total number of licenses available for the product license, calculated by adding up all the license counts for
active license records associated with the product license.
TotalActiveLicenseUnitCount *int `mandatory:"false" json:"totalActiveLicenseUnitCount"`

// The current product license state.
LifecycleState
LifeCycleStateEnum `mandatory:"false" json:"lifecycleState,omitempty"`

// The number of license units consumed. Updated after each allocation run.
TotalLicenseUnitsConsumed *float64 `mandatory:"false" json:"totalLicenseUnitsConsumed"`

// The number of license records associated with the product license.
TotalLicenseRecordCount *int `mandatory:"false" json:"totalLicenseRecordCount"`

// The number of active license records associated with the product license.
ActiveLicenseRecordCount *int `mandatory:"false" json:"activeLicenseRecordCount"`

// Specifies whether or not the product license is oversubscribed.
IsOverSubscribed *bool `mandatory:"false" json:"isOverSubscribed"`

// Specifies if the license unit count is unlimited.
IsUnlimited *bool `mandatory:"false" json:"isUnlimited"`

// The vendor of the ProductLicense
VendorName *string `mandatory:"false" json:"vendorName"`

// The time the product license was created. An RFC 3339 (https://tools.ietf.org/html/rfc3339)-formatted
datetime string.
TimeCreated *common.SDKTime `mandatory:"false" json:"timeCreated"`

// The time the product license was updated. An RFC 3339 (https://tools.ietf.org/html/rfc3339)-formatted datetime
string.
TimeUpdated *common.SDKTime `mandatory:"false" json:"timeUpdated"`

// The images associated with the product license.
Images []ImageResponse `mandatory:"false" json:"images"`

// Simple key-value pair that is applied without any predefined name, type, or scope. Exists for cross-compatibility
only.
// Example: `{"bar-key": "value"}`
FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`
```

```
 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`

 // Usage of system tag keys. These predefined keys are scoped to namespaces.
 // Example: `{"orcl-cloud": {"free-tier-retained": "true"}}`
 SystemTags
 map[string]map[string]interface{} `mandatory:"false" json:"systemTags"`
}

func (m ProductLicense) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m ProductLicense) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingStatusEnum(string(m.Status)); !ok && m.Status != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for Status: %s. Supported values are: %s.",
m.Status, strings.Join(GetStatusEnumStringValues(), ",")))
 }
 if _, ok := GetMappingLicenseUnitEnum(string(m.LicenseUnit)); !ok && m.LicenseUnit != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseUnit: %s. Supported values are:
%s.", m.LicenseUnit, strings.Join(GetLicenseUnitEnumStringValues(), ",")))
 }

 if
 _, ok := GetMappingLifeCycleStateEnum(string(m.LifecycleState)); !ok && m.LifecycleState != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LifecycleState: %s. Supported values
are: %s.", m.LifecycleState, strings.Join(GetLifeCycleStateEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
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// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
```

```
Manager Overview
(https://docs.cloud.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// UpdateProductLicenseDetails Updates the product license object (only allows image updates).
type UpdateProductLicenseDetails struct {

 // The image details associated with the product license.
 Images []ImageDetails `mandatory:"true" json:"images"`

 // Simple key-value pair
 that is applied without any predefined name, type, or scope. Exists for cross-compatibility only.
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`
}

func (m UpdateProductLicenseDetails) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m UpdateProductLicenseDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.
```

```
// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview
(https://docs.cloud.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// BulkUploadLicenseRecordsDetails Details required for bulk uploading of license records.
type BulkUploadLicenseRecordsDetails struct {

 // The compartment OCID (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/identifiers.htm) where
license records are created.
 CompartmentId
 *string `mandatory:"true" json:"compartmentId"`

 // Name of the file that is being uploaded.
 FileName *string `mandatory:"true" json:"fileName"`

 // The file to be uploaded.
 FileContent *string `mandatory:"true" json:"fileContent"`
}

func (m BulkUploadLicenseRecordsDetails) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m BulkUploadLicenseRecordsDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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```

```
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// UpdateLicenseRecordRequest wrapper for the UpdateLicenseRecord operation
//
// # See also
//
// Click https://docs.cloud.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/UpdateLicenseRecord.go.html to see an example of how to use
UpdateLicenseRecordRequest.
type UpdateLicenseRecordRequest struct {

 // Unique license record identifier.
 LicenseRecordId *string `mandatory:"true" contributesTo:"path" name:"licenseRecordId"`

 // Details to update a license record entity.
 UpdateLicenseRecordDetails `contributesTo:"body"`

 //
 For optimistic concurrency control. In the PUT or DELETE call for a resource, set the `if-match`
 // parameter to the value of the etag from a previous GET or POST response for that resource.  The resource
 // will be updated or deleted only if the etag you provide matches the resource's current etag value.
 IfMatch *string `mandatory:"false" contributesTo:"header" name:"if-match"`

 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request UpdateLicenseRecordRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest
```

```
 interface
func (request UpdateLicenseRecordRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request UpdateLicenseRecordRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request UpdateLicenseRecordRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func
 (request UpdateLicenseRecordRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// UpdateLicenseRecordResponse wrapper for the UpdateLicenseRecord operation
type UpdateLicenseRecordResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // The LicenseRecord instance
 LicenseRecord `presentIn:"body"`

 // For optimistic concurrency control. See `if-match`.
 Etag *string `presentIn:"header" name:"etag"`
```

```
 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`
}

func (response UpdateLicenseRecordResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response UpdateLicenseRecordResponse) HTTPResponse()
 *http.Response {
 return response.RawResponse
}
```

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```
// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License Manager Overview
(https://docs.cloud.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// LicenseRecordSummary The license record summary.
type LicenseRecordSummary struct {

 // The license record OCID (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/identifiers.htm).
 Id *string `mandatory:"true" json:"id"`

 // License record display name. Avoid entering
 confidential information.
 DisplayName *string `mandatory:"true" json:"displayName"`

 // Specifies if the license count is unlimited.
 IsUnlimited *bool `mandatory:"true" json:"isUnlimited"`
```

```
// Specifies if the license record term is perpertual.
IsPerpetual *bool `mandatory:"true" json:"isPerpetual"`

// The product license OCID (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/identifiers.htm) with which the license record is associated.
ProductLicenseId *string `mandatory:"false" json:"productLicenseId"`

// The compartment OCID (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/identifiers.htm) where the license record is created.
CompartmentId *string `mandatory:"false" json:"compartmentId"`

// The license record product ID.
ProductId *string `mandatory:"false" json:"productId"`

// The number of license record units added by the user for the given license record.
// Default 1
LicenseCount *int `mandatory:"false" json:"licenseCount"`

// The
license record end date in RFC 3339 (https://tools.ietf.org/html/rfc3339) format.
// date format.
// Example: `2018-09-12`
ExpirationDate *common.SDKTime `mandatory:"false" json:"expirationDate"`

// The license record support end date in RFC 3339 (https://tools.ietf.org/html/rfc3339) format.
// date format.
// Example: `2018-09-12`
SupportEndDate *common.SDKTime `mandatory:"false" json:"supportEndDate"`

// The time the license record was created. An RFC 3339 (https://tools.ietf.org/html/rfc3339)-formatted datetime string.
TimeCreated *common.SDKTime `mandatory:"false" json:"timeCreated"`

// The time the license record was updated. An RFC 3339 (https://tools.ietf.org/html/rfc3339)-formatted datetime string.
TimeUpdated *common.SDKTime `mandatory:"false" json:"timeUpdated"`

// The current license record state.
LifecycleState LifeCycleStateEnum `mandatory:"false" json:"lifecycleState,omitempty"`

// The product license unit.
LicenseUnit LicenseUnitEnum `mandatory:"false"
json:"licenseUnit,omitempty"`

// The product license name with which the license record is associated.
ProductLicense *string `mandatory:"false" json:"productLicense"`

// Simple key-value pair that is applied without any predefined name, type, or scope. Exists for cross-compatibility
```

```
only.
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`

 // Usage of system tag keys. These predefined keys are scoped to namespaces.
 // Example: `{"orcl-cloud": {"free-tier-retained": "true"}}`
 SystemTags map[string]map[string]interface{} `mandatory:"false" json:"systemTags"`
}

func (m LicenseRecordSummary) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an
 unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m LicenseRecordSummary) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if _, ok := GetMappingLifeCycleStateEnum(string(m.LifecycleState)); !ok && m.LifecycleState != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LifecycleState: %s. Supported values
are: %s.", m.LifecycleState, strings.Join(GetLifeCycleStateEnumStringValues(), ",")))
 }
 if _, ok := GetMappingLicenseUnitEnum(string(m.LicenseUnit)); !ok && m.LicenseUnit != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseUnit: %s. Supported values are:
%s.", m.LicenseUnit, strings.Join(GetLicenseUnitEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview
(https://docs.cloud.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
```

```
//

package licensemanager

import (
 "strings"
)

// LicenseUnitEnum Enum with underlying type: string
type LicenseUnitEnum string

// Set of constants representing the allowable values for LicenseUnitEnum
const (
 LicenseUnitOcpu          LicenseUnitEnum = "OCPU"
 LicenseUnitNamedUserPlus LicenseUnitEnum = "NAMED_USER_PLUS"
 LicenseUnitProcessors    LicenseUnitEnum = "PROCESSORS"
)

var
 mappingLicenseUnitEnum = map[string]LicenseUnitEnum{
 "OCPU":           LicenseUnitOcpu,
 "NAMED_USER_PLUS": LicenseUnitNamedUserPlus,
 "PROCESSORS":     LicenseUnitProcessors,
}

var mappingLicenseUnitEnumLowerCase = map[string]LicenseUnitEnum{
 "ocpu":           LicenseUnitOcpu,
 "named_user_plus": LicenseUnitNamedUserPlus,
 "processors":     LicenseUnitProcessors,
}

// GetLicenseUnitEnumValues Enumerates the set of values for LicenseUnitEnum
func GetLicenseUnitEnumValues() []LicenseUnitEnum {
 values := make([]LicenseUnitEnum, 0)
 for _, v := range mappingLicenseUnitEnum {
  values = append(values, v)
 }
 return values
}

// GetLicenseUnitEnumStringValues Enumerates the set of values in String for LicenseUnitEnum
func GetLicenseUnitEnumStringValues() []string {
 return []string{
  "OCPU",
  "NAMED_USER_PLUS",
  "PROCESSORS",
 }
}
```

```
// GetMappingLicenseUnitEnum performs case Insensitive comparison on enum value and return the desired enum
func GetMappingLicenseUnitEnum(val
 string) (LicenseUnitEnum, bool) {
 enum, ok := mappingLicenseUnitEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// UpdateProductLicenseRequest wrapper for the UpdateProductLicense operation
//
// # See also
//
// Click https://docs.cloud.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/UpdateProductLicense.go.html to see an example of how to use
UpdateProductLicenseRequest.
type UpdateProductLicenseRequest struct {

 // Unique product license identifier.
 ProductLicenseId *string `mandatory:"true" contributesTo:"path" name:"productLicenseId"`

 // The list of images that needs to be updated.
 UpdateProductLicenseDetails
 `contributesTo:"body"`

 // For optimistic concurrency control. In the PUT or DELETE call for a resource, set the `if-match`
 // parameter to the value of the etag from a previous GET or POST response for that resource.  The resource
 // will be updated or deleted only if the etag you provide matches the resource's current etag value.
 IfMatch *string `mandatory:"false" contributesTo:"header" name:"if-match"`

 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Metadata about the request. This information will not be transmitted to the service, but
```

```
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request UpdateProductLicenseRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements
 the OCIRequest interface
func (request UpdateProductLicenseRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request UpdateProductLicenseRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request UpdateProductLicenseRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this
 function directly
func (request UpdateProductLicenseRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// UpdateProductLicenseResponse wrapper for the UpdateProductLicense operation
type UpdateProductLicenseResponse struct {
```

```
 // The underlying http response
 RawResponse *http.Response

 // The ProductLicense instance
 ProductLicense `presentIn:"body"`

 // For optimistic concurrency control. See `if-match`.
 Etag *string `presentIn:"header" name:"etag"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`
}

func (response UpdateProductLicenseResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response UpdateProductLicenseResponse)
 HTTPResponse() *http.Response {
 return response.RawResponse
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Oracle Content Management API
//
// Oracle Content Management is a cloud-based content hub to drive omni-channel content management and
accelerate experience delivery
//

package oce

import (
 "strings"
)

// LicenseTypeEnum Enum with underlying type: string
type LicenseTypeEnum string

// Set of constants representing the allowable values for LicenseTypeEnum
const (
 LicenseTypeNew     LicenseTypeEnum = "NEW"
 LicenseTypeByol    LicenseTypeEnum = "BYOL"
```

```
 LicenseTypePremium LicenseTypeEnum = "PREMIUM"
 LicenseTypeStarter LicenseTypeEnum = "STARTER"
)

var mappingLicenseTypeEnum = map[string]LicenseTypeEnum{
 "NEW":     LicenseTypeNew,
 "BYOL":
    LicenseTypeByol,
 "PREMIUM": LicenseTypePremium,
 "STARTER": LicenseTypeStarter,
}

var mappingLicenseTypeEnumLowerCase = map[string]LicenseTypeEnum{
 "new":     LicenseTypeNew,
 "byol":    LicenseTypeByol,
 "premium": LicenseTypePremium,
 "starter": LicenseTypeStarter,
}

// GetLicenseTypeEnumValues Enumerates the set of values for LicenseTypeEnum
func GetLicenseTypeEnumValues() []LicenseTypeEnum {
 values := make([]LicenseTypeEnum, 0)
 for _, v := range mappingLicenseTypeEnum {
  values = append(values, v)
 }
 return values
}

// GetLicenseTypeEnumStringValues Enumerates the set of values in String for LicenseTypeEnum
func GetLicenseTypeEnumStringValues() []string {
 return []string{
  "NEW",
  "BYOL",
  "PREMIUM",
  "STARTER",
 }
}

// GetMappingLicenseTypeEnum performs case Insensitive comparison on enum value and return the desired enum
func GetMappingLicenseTypeEnum(val string) (LicenseTypeEnum, bool) {
 enum, ok := mappingLicenseTypeEnumLowerCase[strings.ToLower(val)]
 return
 enum, ok
}
```

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```
// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// GetLicenseMetricRequest wrapper for the GetLicenseMetric operation
//
// # See also
//
// Click https://docs.cloud.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/GetLicenseMetric.go.html to see an example of how to use
GetLicenseMetricRequest.
type GetLicenseMetricRequest struct {

 // The compartment OCID (https://docs.cloud.oracle.com/iaas/Content/General/Concepts/identifiers.htm) used for
the license record, product license, and configuration.
 CompartmentId *string `mandatory:"true" contributesTo:"query"
 name:"compartmentId"`

 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Indicates if the given compartment is the root compartment.
 IsCompartmentIdInSubtree *bool `mandatory:"false" contributesTo:"query" name:"isCompartmentIdInSubtree"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request GetLicenseMetricRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request GetLicenseMetricRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if
```

```
 err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request GetLicenseMetricRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request GetLicenseMetricRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request GetLicenseMetricRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

//
 GetLicenseMetricResponse wrapper for the GetLicenseMetric operation
type GetLicenseMetricResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // The LicenseMetric instance
 LicenseMetric `presentIn:"body"`

 // For optimistic concurrency control. See `if-match`.
 Etag *string `presentIn:"header" name:"etag"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`
}
```

```
func (response GetLicenseMetricResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response GetLicenseMetricResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
```

1.4258 rueidis 1.0.14-go1.18

1.4258.1 Available under license :

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1.4259 aws-sdk-go-v2-service-sts 1.16.3

1.4259.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
```

```
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string
```

```
 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
 nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
```

```
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
```

```
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
```

```
 if err
 = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
```

```
 return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
```

```
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack,
 options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil
 {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
```

```
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
     - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
       with:
         python-version: ${{ matrix.python-version }}
     # ScanCode
     - name: Self-configure scancode
```

```
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
```

```
Beneficiary *string

// Unique, case-sensitive identifier that you provide to ensure
the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
```

```
 // This member is required.
 Validity *types.DatetimeRange

 //
 Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
```

```
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string
```

```
 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
 middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
```

```
 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}
```

AWS SDK for Go

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```
{
   "smithy": "1.0",
   "metadata": {
       "suppressions": [
           {
               "id": "HttpMethodSemantics",
               "namespace": "*"
           },
           {
               "id": "HttpResponseCodeSemantics",
               "namespace": "*"
           },
           {
               "id": "PaginatedTrait",
               "namespace": "*"
```

```
        },
        {
            "id": "HttpHeaderTrait",
            "namespace": "*"
        },
        {
            "id": "HttpUriConflict",
            "namespace": "*"
        },
        {
            "id": "Service",
            "namespace": "*"
        }
    ]
},
"shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
        "type": "service",
        "version": "2018-08-01",
        "operations": [
            {
                "target": "com.amazonaws.licensemanager#AcceptGrant"
            },

 {
                "target": "com.amazonaws.licensemanager#CheckInLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CheckoutLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateGrant"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateGrantVersion"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
            },
```

{
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseVersion"
},
{
"target": "com.amazonaws.licensemanager#CreateToken"
},
{
"target": "com.amazonaws.licensemanager#DeleteGrant"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicense"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#DeleteToken"
},
{
"target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

},
{
"target": "com.amazonaws.licensemanager#GetAccessToken"
},
{
"target": "com.amazonaws.licensemanager#GetGrant"
},
{
"target": "com.amazonaws.licensemanager#GetLicense"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseUsage"

},
{
"target": "com.amazonaws.licensemanager#GetServiceSettings"
},
{
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#ListDistributedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
"target": "com.amazonaws.licensemanager#ListLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

"target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListResourceInventory"
},
{
"target": "com.amazonaws.licensemanager#ListTagsForResource"
},
{
"target": "com.amazonaws.licensemanager#ListTokens"
},
{

"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#RejectGrant"
},
{
"target": "com.amazonaws.licensemanager#TagResource"
},
{
"target": "com.amazonaws.licensemanager#UntagResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateServiceSettings"
}
],
"traits": {
"aws.api#service": {
"sdkId": "License Manager",
"arnNamespace": "license-manager",
"cloudFormationName": "LicenseManager",
"cloudTrailEventSource": "licensemanager.amazonaws.com",
"endpointPrefix":
"license-manager"
},
"aws.auth#sigv4": {
"name": "license-manager"
},
"aws.protocols#awsJson1_1": {},
"smithy.api#documentation": " License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers. ",
"smithy.api#title": "AWS License Manager",
"smithy.api#xmlNamespace": {
"uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
}
}
},
"com.amazonaws.licensemanager#AcceptGrant": {
"type": "operation",
"input": {

"target": "com.amazonaws.licensemanager#AcceptGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#AcceptGrantResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Accepts the specified grant. "
}
},
"com.amazonaws.licensemanager#AcceptGrantRequest":
{
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#AcceptGrantResponse": {
"type": "structure",

"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant
status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
}
},
"com.amazonaws.licensemanager#AccessDeniedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ServiceAccessDenied",
"httpResponseCode": 401
},
"smithy.api#documentation": " Access to resource denied. ",
"smithy.api#error": "client",
"smithy.api#httpError": 401
}
},
"com.amazonaws.licensemanager#AllowedOperation":
{
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "CreateGrant",
"name": "CREATE_GRANT"
},

```
            {
                "value": "CheckoutLicense",
                "name": "CHECKOUT_LICENSE"
            },
            {
                "value": "CheckoutBorrowLicense",
                "name": "CHECKOUT_BORROW_LICENSE"
            },
            {
                "value": "CheckInLicense",
                "name": "CHECK_IN_LICENSE"
            },
            {
                "value": "ExtendConsumptionLicense",
                "name": "EXTEND_CONSUMPTION_LICENSE"
            },
            {
                "value": "ListPurchasedLicenses",
                "name": "LIST_PURCHASED_LICENSES"
            },
            {
                "value": "CreateToken",
                "name": "CREATE_TOKEN"
            }
        ]
    }
},
"com.amazonaws.licensemanager#AllowedOperationList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#AllowedOperation"
    },
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 7
        }
    }
},
"com.amazonaws.licensemanager#Arn": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 2048
        },
        "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
```

```
            }
        },
        "com.amazonaws.licensemanager#ArnList": {
            "type": "list",
            "member": {
                "target": "com.amazonaws.licensemanager#Arn"
            }
        },
        "com.amazonaws.licensemanager#AuthorizationException": {
            "type": "structure",
            "members": {
                "Message": {
                    "target": "com.amazonaws.licensemanager#Message"
                }
            },
            "traits": {
                "aws.protocols#awsQueryError": {
                    "code": "AuthorizationFailure",
                    "httpResponseCode": 403
                },
                "smithy.api#documentation": "<p>The Amazon Web Services user account does not have permission to
perform the action. Check the IAM\n        policy associated with this account.</p>",
                "smithy.api#error": "client",
                "smithy.api#httpError": 403
            }
        },
        "com.amazonaws.licensemanager#AutomatedDiscoveryInformation":
 {
            "type": "structure",
            "members": {
                "LastRunTime": {
                    "target": "com.amazonaws.licensemanager#DateTime",
                    "traits": {
                        "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
                    }
                }
            },
            "traits": {
                "smithy.api#documentation": "<p>Describes automated discovery.</p>"
            }
        },
        "com.amazonaws.licensemanager#Boolean": {
            "type": "boolean"
        },
        "com.amazonaws.licensemanager#BorrowConfiguration": {
            "type": "structure",
            "members": {
                "AllowEarlyCheckIn": {
```

```
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Indicates whether early check-ins are allowed.</p>",
                 "smithy.api#required": {}
            }
        },
        "MaxTimeToLiveInMinutes": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
    }
},
"com.amazonaws.licensemanager#BoxBoolean": {
    "type": "boolean",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#BoxInteger": {
    "type": "integer",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#BoxLong": {

"type": "long",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#CheckInLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",

        "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
```

"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],

"traits": {
"smithy.api#documentation": " Checks out the specified license for offline use. "
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The license must use the borrow consumption configuration. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. Partial checkouts are not supported. ",
"smithy.api#required": {}
}
},
"DigitalSignatureMethod": {
"target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
"traits": {
"smithy.api#documentation": " Digital signature method. The possible value is JSON Web Signature (JWS) algorithm PS384.\n For more information, see RFC 7518 Digital Signature with RSASSA-PSS. ",
"smithy.api#required": {}
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the

idempotency of the request. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",

"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " Allowed license entitlements. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"SignedToken": {

"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout is issued. "
}
},
"Expiration": {

"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation":
" Information about constraints. "
}
}
}
},
"com.amazonaws.licensemanager#CheckoutLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},

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            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutLicenseRequest": {
        "type": "structure",
        "members": {
            "ProductSKU":
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "CheckoutType": {
                "target": "com.amazonaws.licensemanager#CheckoutType",
                "traits": {
                    "smithy.api#documentation": "<p>Checkout type.</p>",
                    "smithy.api#required": {}
                }
            },
            "KeyFingerprint": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Key fingerprint identifying the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                 "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",
                    "smithy.api#required": {}
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
```

"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Node ID. "
}
}
}
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
"type": "structure",
"members": {
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation":
" Allowed license entitlements. "
}
},
"SignedToken": {
"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",

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            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        },
        "IssuedAt": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
            }
        },
        "Expiration": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",

             "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
            }
        },
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CheckoutType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "PROVISIONAL",
                "name": "PROVISIONAL"
            },
            {
                "value": "PERPETUAL",
                "name": "PERPETUAL"
            }
        ]
    }
},
"com.amazonaws.licensemanager#ClientRequestToken":
{
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 36
        }
```

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            }
        },
        "com.amazonaws.licensemanager#ClientToken": {
            "type": "string",
            "traits": {
                "smithy.api#length": {
                    "min": 0,
                    "max": 2048
                },
                "smithy.api#pattern": "^\\S+$"
            }
        },
        "com.amazonaws.licensemanager#ConflictException": {
            "type": "structure",
            "members": {
                "Message": {
                    "target": "com.amazonaws.licensemanager#Message"
                }
            },
            "traits": {
                "aws.protocols#awsQueryError": {
                    "code": "ConflictException",
                    "httpResponseCode": 409
                },
                "smithy.api#documentation": "<p>There
was a conflict processing the request. Try your request again.</p>",
                "smithy.api#error": "client",
                "smithy.api#httpError": 409
            }
        },
        "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
            "type": "structure",
            "members": {
                "ResourceType": {
                    "target": "com.amazonaws.licensemanager#ResourceType",
                    "traits": {
                        "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
                    }
                },
                "ConsumedLicenses": {
                    "target": "com.amazonaws.licensemanager#BoxLong",
                    "traits": {
                        "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
                    }
                }
            },
            "traits": {
                "smithy.api#documentation": "<p>Details about license consumption.</p>"
```

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    }
},
"com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
    }
},
"com.amazonaws.licensemanager#ConsumptionConfiguration": {
    "type": "structure",
    "members": {
        "RenewType": {
            "target": "com.amazonaws.licensemanager#RenewType",
            "traits": {
                "smithy.api#documentation": "<p>Renewal frequency.</p>"
            }
        },
        "ProvisionalConfiguration": {
            "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
            }
        },
        "BorrowConfiguration": {

            "target": "com.amazonaws.licensemanager#BorrowConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
    }
},
"com.amazonaws.licensemanager#CreateGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
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"target": "com.amazonaws.licensemanager#AuthorizationException"
},

{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a grant for the specified license. A grant shares the use of license entitlements with specific Amazon Web Services accounts. "
}
},
"com.amazonaws.licensemanager#CreateGrantRequest": {
"type": "structure",
"members": {

"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}

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            }
          },

        "Principals": {
            "target": "com.amazonaws.licensemanager#PrincipalArnList",
            "traits": {
                "smithy.api#documentation": "<p>The grant principals.</p>",
                "smithy.api#required": {}
            }
          },
          "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the grant.</p>",
                "smithy.api#required": {}
            }
          },
          "AllowedOperations": {
            "target": "com.amazonaws.licensemanager#AllowedOperationList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed operations for the grant.</p>",
                "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanager#CreateGrantResponse":
{
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
          }
```

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        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersion": {
        "type": "operation",
        "input": {

  "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

              "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
```

```
            }
        },
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                 "smithy.api#required": {}
            }
        },
        "GrantName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant name.</p>"
            }
        },
        "AllowedOperations": {
            "target": "com.amazonaws.licensemanager#AllowedOperationList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "StatusReason": {
            "target": "com.amazonaws.licensemanager#StatusReasonMessage",

       "traits": {
                "smithy.api#documentation": "<p>Grant status reason.</p>"
            }
        },
        "SourceVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Current version of the grant.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
```

"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant
status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New version of the grant. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}

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        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license configuration.</p> \n        <p>A license configuration is an abstraction of a customer license
 agreement that can be\n        consumed and enforced by License Manager. Components include specifications for the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), license affinity  to host (how long a \n        license must be associated with a host), and the number of licenses purchased and used.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
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"smithy.api#documentation": " Name of the license configuration. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension used to track the license inventory. ",
"smithy.api#required": {}
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {

"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows. \n \n \n \n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n <code>licenseAffinityToHost</code> |\n <code>maximumCores</code> | <code>minimumCores</code>\n \n \n \n \n <code>Instances</code> dimension: <code>allowedTenancy</code> | \n <code>maximumCores</code> | <code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n \n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n <code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code>\n \n \n \n \n <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n <code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n The unit for

<code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the license configuration. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
},
"errors": [

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            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest":
 {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting
from. \n        For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the AWS
CLI</a> in the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            },
            "DestinationLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
```

"smithy.api#documentation": " Information that identifies the license type you are converting to. For the structure of the destination license, see Convert a license type using the AWS CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the created license type conversion task. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{

"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a report generator. "
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target":
"com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types an be generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}
}
},

"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " Defines the type of license configuration the report generator tracks. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}

```
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientRequestToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide
to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the report generator.</p>"
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Tags to add to the report generator.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits":
{
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the new report
generator.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " Product name. ",
"smithy.api#required": {}
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits": {
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region for the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation":
" Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},

"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {

"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}

}
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}

```
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersion":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
             },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
```

"smithy.api#required": {}
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits": {
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation":
" Home Region of the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",

"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. "
}
},

```
    "Version": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>New version of the license.</p>"
        }
    },
    "Status": {
        "target": "com.amazonaws.licensemanager#LicenseStatus",
        "traits": {
            "smithy.api#documentation": "<p>License status.</p>"
        }
    }
  }
},
"com.amazonaws.licensemanager#CreateToken": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanager#CreateTokenRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanager#CreateTokenResponse"
  },
  "errors": [
    {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
    },

  {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
    },
    {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
    },
    {
        "target": "com.amazonaws.licensemanager#RedirectException"
    },
    {
        "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
    },
    {
        "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
    },
    {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
    },
    {
        "target": "com.amazonaws.licensemanager#ValidationException"
    }
```

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a long-lived token.</p>\n        <p>A refresh token is a JWT
 token used to get an access token. With an access token,\n          you can call AssumeRoleWithWebIdentity to get
role credentials that you can use to \n          call License Manager to manage the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateTokenRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The ARN is
mapped to the aud claim of the\n          JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "RoleArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the IAM roles to embed
 in the token. \n        License Manager does not check whether the roles are in use.</p>"
                }
            },
            "ExpirationInDays": {
                "target": "com.amazonaws.licensemanager#Integer",
                "traits": {
                    "smithy.api#documentation": "<p>Token expiration, in days, counted from token creation. The
default is 365 days.</p>"
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Data specified by the caller to be included in the JWT token. The
data is mapped\n          to the amr claim of the JWT token.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation":
 "<p>Idempotency token, valid for 10 minutes.</p>",
                    "smithy.api#required": {}
                }
            }
        }
```

```
    },
    "com.amazonaws.licensemanager#CreateTokenResponse": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
            "TokenType": {
                "target": "com.amazonaws.licensemanager#TokenType",
                "traits": {
                    "smithy.api#documentation": "<p>Token type.</p>"
                }
            },
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token,
encoded as a JWT token.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#DateTime": {
        "type": "timestamp"
    },
    "com.amazonaws.licensemanager#DatetimeRange": {
        "type": "structure",
        "members": {
            "Begin": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Start of the time range.</p>",
                    "smithy.api#required": {}
                }
            },
            "End": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>End of the time range.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC
```

format. "
        }
    },
    "com.amazonaws.licensemanager#DeleteGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

        },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": " Deletes the specified grant. "
        }
    },
    "com.amazonaws.licensemanager#DeleteGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
                    "smithy.api#required": {}
                }

```
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {

        "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#DeleteGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation":
"<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#DeleteLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
```

```
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Deletes the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license configuration.</p> \n         <p>You cannot
delete a license configuration
 that is in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
```

{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified report generator. \n This action deletes the report generator, which stops it from generating future reports.\n The action cannot be reversed. It has no effect on the previous reports from this generator. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to be deleted. ",
"smithy.api#required": {}
}
}
}
},

"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#DeleteLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",

"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#DeleteLicenseResponse":
{
"type": "structure",
"members": {
"Status": {
"target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"DeletionDate": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date when the license is deleted. "
}
}
}
},
"com.amazonaws.licensemanager#DeleteToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteTokenResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"

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            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
        }

    },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#DigitalSignatureMethod": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "JWT_PS384",
                    "name": "JWT_PS384"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#Entitlement": {
```

"type": "structure",

"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement resource. Use only if the unit is None. "
}
},
"MaxCount": {
"target": "com.amazonaws.licensemanager#Long",
"traits": {
"smithy.api#documentation": " Maximum entitlement count. Use if the unit is not None. "
}
},
"Overage": {
"target": "com.amazonaws.licensemanager#BoxBoolean",

"traits": {
"smithy.api#documentation": " Indicates whether overages are allowed. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementUnit",
"traits": {
"smithy.api#documentation": " Entitlement unit. ",
"smithy.api#required": {}
}
},
"AllowCheckIn": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether check-ins are allowed. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a resource entitled for use with a license. "
}
},
"com.amazonaws.licensemanager#EntitlementData": {

"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data value. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {
"smithy.api#documentation": " Entitlement data unit. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Data associated
with an entitlement resource. "
}
},
"com.amazonaws.licensemanager#EntitlementDataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#EntitlementData"
}
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "Count",
"name": "COUNT"
},
{
"value": "None",
"name": "NONE"
},
{
"value": "Seconds",

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"name": "MEGABITS_PER_SECOND"
},
{
"value": "Gigabits/Second",
"name": "GIGABITS_PER_SECOND"
},
{
"value": "Terabits/Second",

"name": "TERABITS_PER_SECOND"
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"value": "Count/Second",
"name": "COUNT_PER_SECOND"
}
]
}
},
"com.amazonaws.licensemanager#EntitlementList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Entitlement"
}
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The entitlement is not allowed. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#EntitlementUnit": {

"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "Count",
"name": "COUNT"
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{
"value": "None",
"name": "NONE"
},
{
"value": "Seconds",
"name": "SECONDS"
},
{
"value": "Microseconds",
"name": "MICROSECONDS"

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        },
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          "name": "MILLISECONDS"
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          "name": "GIGABYTES"
        },
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        {
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          "name": "BITS"
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          "name": "GIGABITS"
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"value": "Kilobytes/Second",
"name": "KILOBYTES_PER_SECOND"
},
{
"value": "Megabytes/Second",
"name": "MEGABYTES_PER_SECOND"
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"value": "Gigabytes/Second",
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},
{
"value": "Terabytes/Second",
"name": "TERABYTES_PER_SECOND"
},
{

"value": "Bits/Second",
"name": "BITS_PER_SECOND"
},
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"value": "Kilobits/Second",
"name": "KILOBITS_PER_SECOND"
},
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"name": "MEGABITS_PER_SECOND"
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"value": "Gigabits/Second",
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},
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"value": "Terabits/Second",
"name": "TERABITS_PER_SECOND"
},
{
"value": "Count/Second",
"name": "COUNT_PER_SECOND"
}
]

```
        }
    },
    "com.amazonaws.licensemanager#EntitlementUsage": {
        "type": "structure",

"members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ConsumedValue": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxCount": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
                }
            },
            "Unit": {
                "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
                 "traits": {
                    "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementUsageList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
```

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
        },
        "errors": [
            {

        "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}
                }
            },
            "DryRun": {
                "target": "com.amazonaws.licensemanager#Boolean",
                "traits": {
                    "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>"
                }
```

```
        }
    }
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
    "type": "structure",

  "members": {
        "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
            }
        },
        "Expiration": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#FailedDependencyException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        },
        "ErrorCode": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },

 "traits": {
        "aws.protocols#awsQueryError": {
            "code": "FailedDependency",
            "httpResponseCode": 424
        },
        "smithy.api#documentation": "<p>A dependency required to run the API is missing.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 424
    }
},
"com.amazonaws.licensemanager#Filter": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#FilterName",
            "traits": {
```

"smithy.api#documentation": " Name of the filter. Filter names are case-sensitive. "
}
},
"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " Filter values. Filter values are case-sensitive. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter name and value pair that is used to return more specific results from a\n describe operation. Filters can be used to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FilterLimitExceeded",
"httpResponseCode": 400
},
"smithy.api#documentation": " The request uses too many filters or too many filter values. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter"
}
},
"com.amazonaws.licensemanager#FilterName": {
"type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
"type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {

"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#FilterValue",
"traits": {
"smithy.api#xmlName": "item"
}
}
},
"com.amazonaws.licensemanager#Filters": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter",
"traits": {
"smithy.api#xmlName":
"item"
}
}
},
"com.amazonaws.licensemanager#GetAccessToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"

}
],
"traits": {
"smithy.api#documentation": " Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access tokens\n are valid for one hour. "
}

```
    },
    "com.amazonaws.licensemanager#GetAccessTokenRequest": {
        "type": "structure",
        "members": {
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT
token.</p>"
                }

            }
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenResponse": {
        "type": "structure",
        "members": {
            "AccessToken": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Temporary access token.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
```

```
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
                "smithy.api#documentation": "<p>Grant details.</p>"
            }
        }
    }
},
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"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",

    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
     "traits": {
        "smithy.api#documentation": " Gets detailed information about the specified license. "
    }
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },

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            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license
configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId":
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            },
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>"
```

}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation":
" Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension for which the licenses are counted. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of available licenses. "
}
},
"LicenseCountHardLimit": {

"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Sets the number of available licenses as a hard limit. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses assigned to resources. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License configuration status. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Account ID of the
owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList":
{
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is
uninstalled. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
"type":

"operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets
information about the specified license type conversion task. "
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information
on. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {

"smithy.api#documentation": " ID of the license
type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license
conversion task is associated with. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted to. "

}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " Status of the license type conversion task. "
}
},
"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was started . "
}
},
"LicenseConversionTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Amount of time to complete the license type conversion. "
}
},

```
            "EndTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation":
 "<p>Gets information about the specified report generator.</p>"
        }
    },
```

"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"ReportGenerator": {
"target": "com.amazonaws.licensemanager#ReportGenerator",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic
reports about your license configurations. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseResponse": {
"type": "structure",
"members": {
"License": {
"target":

"com.amazonaws.licensemanager#License",
"traits": {
"smithy.api#documentation": " License details. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseUsage": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the usage of the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseUsageRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}

```
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageResponse":
{
        "type": "structure",
        "members": {
            "LicenseUsage": {
                "target": "com.amazonaws.licensemanager#LicenseUsage",
                "traits": {
                    "smithy.api#documentation": "<p>License usage details.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },

 {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
        "type": "structure",
```

"members": {
"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Regional S3 bucket path for storing reports, license trail event data, discovery data,\n and so on. "
}

},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " SNS topic configured to receive notifications from License Manager. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Indicates whether Organizations is integrated with License Manager for\n cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether cross-account discovery is enabled. "
}

},
"LicenseManagerResourceShareArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource share. The License Manager management account \n provides member accounts with access to this share. "
}
}
}
},
"com.amazonaws.licensemanager#Grant": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}

```
        },
        "GrantName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {

            "smithy.api#documentation": "<p>Grant name.</p>",
            "smithy.api#required": {}
          }
        },
        "ParentArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Parent ARN.</p>",
            "smithy.api#required": {}
          }
        },
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>License ARN.</p>",
            "smithy.api#required": {}
          }
        },
        "GranteePrincipalArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>The grantee principal ARN.</p>",

"smithy.api#required": {}
          }
        },
        "HomeRegion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Home Region of the grant.</p>",
            "smithy.api#required": {}
          }
        },
        "GrantStatus": {
          "target": "com.amazonaws.licensemanager#GrantStatus",
          "traits": {
            "smithy.api#documentation": "<p>Grant status.</p>",
            "smithy.api#required": {}
          }
        },
        "StatusReason": {
          "target": "com.amazonaws.licensemanager#StatusReasonMessage",
          "traits": {
```

"smithy.api#documentation": " Grant status reason. "
}
},
"Version": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. ",
"smithy.api#required": {}
}
},
"GrantedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Granted operations. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes a grant. "
}
},
"com.amazonaws.licensemanager#GrantList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Grant"
}
},
"com.amazonaws.licensemanager#GrantStatus": {
"type": "string",

"traits": {
"smithy.api#enum": [
{
"value": "PENDING_WORKFLOW",
"name": "PENDING_WORKFLOW"
},
{
"value": "PENDING_ACCEPT",
"name": "PENDING_ACCEPT"
},
{
"value": "REJECTED",
"name": "REJECTED"
},
{
"value": "ACTIVE",

"name": "ACTIVE"
},
{
"value": "FAILED_WORKFLOW",
"name": "FAILED_WORKFLOW"
},
{
"value": "DELETED",
"name": "DELETED"
},
{
"value": "PENDING_DELETE",
"name": "PENDING_DELETE"
},
{
"value": "DISABLED",
"name": "DISABLED"
},
{
"value": "WORKFLOW_COMPLETED",
"name": "WORKFLOW_COMPLETED"
}
]
}
},
"com.amazonaws.licensemanager#GrantedLicense": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. "
}

},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " Granted license issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the granted license. "

}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " Granted license status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the granted license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Granted license beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}

```
            },
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Granted license metadata.</p>"
                }
            },
            "CreateTime": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Creation time of the granted license.</p>"

  }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Version of the granted license.</p>"
                }
            },
            "ReceivedMetadata": {
                "target": "com.amazonaws.licensemanager#ReceivedMetadata",
                "traits": {
                    "smithy.api#documentation": "<p>Granted license received metadata.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes a license that is granted to a grantee.</p>"
        }
    },
    "com.amazonaws.licensemanager#GrantedLicenseList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#GrantedLicense"
        }
    },
    "com.amazonaws.licensemanager#ISO8601DateTime":
{
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            },
            "smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-
1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[ 0-3]|[0-1][0-9]):[0-5][0-9])+$"
        }
```

```
    },
    "com.amazonaws.licensemanager#Integer": {
        "type": "integer",
        "traits": {
            "smithy.api#box": {}
        }
    },
    "com.amazonaws.licensemanager#InvalidParameterValueException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidParameterValueProvided",

 "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>One or more parameter values are not valid.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InvalidResourceStateException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidResourceState",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n        <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
            "smithy.api#error": "client",
             "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InventoryFilter": {
        "type": "structure",
        "members": {
            "Name": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the filter. ",
"smithy.api#required": {}
}
},
"Condition": {
"target": "com.amazonaws.licensemanager#InventoryFilterCondition",
"traits": {
"smithy.api#documentation": " Condition of the filter. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Value
of the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " An inventory filter. "
}
},
"com.amazonaws.licensemanager#InventoryFilterCondition": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "EQUALS",
"name": "EQUALS"
},
{
"value": "NOT_EQUALS",
"name": "NOT_EQUALS"
},
{
"value": "BEGINS_WITH",
"name": "BEGINS_WITH"
},
{
"value": "CONTAINS",
"name": "CONTAINS"
}
]
}
},

"com.amazonaws.licensemanager#InventoryFilterList":
{
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#InventoryFilter"
}
},
"com.amazonaws.licensemanager#Issuer": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. ",
"smithy.api#required": {}
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
}
},
"traits": {

"smithy.api#documentation": " Details about the issuer of a license. "
}
},
"com.amazonaws.licensemanager#IssuerDetails": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. "
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
},

```
        "KeyFingerprint": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
    }
},
"com.amazonaws.licensemanager#License": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License name.</p>"
            }
        },
        "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product name.</p>"
            }
        },
        "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product SKU.</p>"
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>License issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the license.</p>"
```

```
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
             "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        },
        "Validity": {
            "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {
                "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>"
            }
        },
        "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License beneficiary.</p>"
            }
        },
        "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
            "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>"

         }
        },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
            }
        },
        "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
                "smithy.api#documentation": "<p>License metadata.</p>"
            }
        },
        "CreateTime": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>License creation time.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
```

"traits":
{
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#documentation": " Software license that is managed in License Manager. "
}
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
"type": "structure",
"members": {
"LicenseConfigurationId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Unique ID of the license configuration. "
}
},
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}

},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension to use to track the license inventory. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Number of available licenses as a hard limit. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "

}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the license configuration. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the license configuration's owner. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",

"traits": {
"smithy.api#documentation": " Summaries for licenses consumed by various resources. "
}
},

"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource

consuming licenses. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was associated with the resource. "
}
},
"AmiAssociationScope":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an association with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
}
},
"com.amazonaws.licensemanager#LicenseConfigurationStatus": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "AVAILABLE",
"name": "AVAILABLE"
},
{
"value": "DISABLED",
"name": "DISABLED"
}
]
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsage": {
"type": "structure",
"members": {
"ResourceArn": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of resource. "
}
},
"ResourceStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Status of the resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was initially associated with the resource. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}

},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"

```
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurations": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfiguration"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionContext": {
        "type": "structure",
        "members": {
            "UsageOperation": {
                "target": "com.amazonaws.licensemanager#UsageOperation",
                "traits": {
                    "smithy.api#documentation": "<p>The Usage operation value that corresponds
 to the license type you are converting your resource from.  For more information about which platforms correspond
to which usage operation values see <a href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-
info-fields.html#billing-info\">Sample data: usage operation by platform\n      </a>\n         </p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTask": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the license type conversion task.</p>"
                }
            },
            "ResourceArn":
 {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource associated
with the license type\n         conversion task.</p>"
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license type this conversion task converted
from.</p>"
                }
```

```
            },
            "DestinationLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license type this conversion task converted
to.</p>"
                }
            },

  "Status": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
                "traits": {
                    "smithy.api#documentation": "<p>The status of the conversion task.</p>"
                }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
                }
            },
            "StartTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>The time the conversion task was started at.</p>"
                }
            },
            "LicenseConversionTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {

        "smithy.api#documentation": "<p>The time the usage operation value of the resource was changed.</p>"
                }
            },
            "EndTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTaskId": {
        "type": "string",
        "traits": {
```

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            "smithy.api#length": {
                "min": 0,
                "max": 50
            },
            "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
        "type":
"string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "IN_PROGRESS",
                    "name": "IN_PROGRESS"
                },
                {
                    "value": "SUCCEEDED",
                    "name": "SUCCEEDED"
                },
                {
                    "value": "FAILED",
                    "name": "FAILED"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTasks": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTask"
        }
    },
    "com.amazonaws.licensemanager#LicenseCountingType": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "vCPU",
                    "name": "VCPU"

                },
                {
                    "value": "Instance",
                    "name": "INSTANCE"
                },
                {
                    "value": "Core",
```

```
            "name": "CORE"
          },
          {
            "value": "Socket",
            "name": "SOCKET"
          }
        ]
      }
    },
    "com.amazonaws.licensemanager#LicenseDeletionStatus": {
      "type": "string",
      "traits": {
        "smithy.api#enum": [
          {
            "value": "PENDING_DELETE",
            "name": "PENDING_DELETE"
          },
          {
            "value": "DELETED",
            "name": "DELETED"
          }
        ]
      }
    },
    "com.amazonaws.licensemanager#LicenseList": {
      "type": "list",
       "member": {
        "target": "com.amazonaws.licensemanager#License"
      }
    },
    "com.amazonaws.licensemanager#LicenseOperationFailure": {
      "type": "structure",
      "members": {
        "ResourceArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
          }
        },
        "ResourceType": {
          "target": "com.amazonaws.licensemanager#ResourceType",
          "traits": {
            "smithy.api#documentation": "<p>Resource type.</p>"
          }
        },
        "ErrorMessage": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
```

"smithy.api#documentation": " Error message. "

}
},
"FailureTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Failure time. "
}
},
"OperationName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the operation. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource. "
}
},
"OperationRequestedBy": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " The requester is \"License Manager Automated Discovery\". "
}
},
"MetadataList": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Reserved. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the failure of a license operation. "
}
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailure"
}
},
"com.amazonaws.licensemanager#LicenseSpecification": {

"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseSpecification"
}
},
"com.amazonaws.licensemanager#LicenseStatus":
{
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "AVAILABLE",
"name": "AVAILABLE"
},
{
"value": "PENDING_AVAILABLE",
"name": "PENDING_AVAILABLE"
},
{
"value": "DEACTIVATED",
"name": "DEACTIVATED"
},
{
"value": "SUSPENDED",
"name": "SUSPENDED"

```
                },
                {
                    "value": "EXPIRED",
                    "name": "EXPIRED"
                },
                {
                    "value": "PENDING_DELETE",
                    "name": "PENDING_DELETE"
                },
                {

                 "value": "DELETED",
                    "name": "DELETED"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#LicenseUsage": {
        "type": "structure",
        "members": {
            "EntitlementUsages": {
                "target": "com.amazonaws.licensemanager#EntitlementUsageList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlement usages.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes the entitlement usage associated with a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseUsageException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {

         "aws.protocols#awsQueryError": {
                "code": "LicenseUsageFailure",
                "httpResponseCode": 412
            },
            "smithy.api#documentation": "<p>You do not have enough licenses available to support a new resource
launch.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 412
```

```
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the resource associations for the specified license
configuration.</p> \n        <p>Resource associations need not consume licenses from a license configuration. \n
For example, an AMI or a stopped instance might not consume a license (depending on \n        the license
rules).</p>"
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest":
 {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
```

"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationAssociations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license configuration. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

             "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants distributed for the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
        "type": "structure",
        "members": {
            "GrantArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n
        <code>LicenseArn</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>GrantStatus</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>GranteePrincipalARN</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>ProductSKU</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>LicenseIssuerName</code>\n                </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
```

"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{

"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configuration operations that failed. "
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name of the license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse": {
"type": "structure",
"members": {
"LicenseOperationFailureList": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
"traits": {
"smithy.api#documentation": " License configuration operations that failed. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},

"com.amazonaws.licensemanager#ListLicenseConfigurations":
{
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},

{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configurations for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the license configurations. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "

```
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "Filters": {
            "target": "com.amazonaws.licensemanager#Filters",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n  are supported:</p>\n  <ul>\n  <li>\n  <p>\n  <code>licenseCountingType</code> - The dimension for which licenses are counted.\n  Possible values are <code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n  Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n  </li>\n  <li>\n  <p>\n
                <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement is used. \n  Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n  </li>\n  <li>\n  <p>\n  <code>usagelimitExceeded</code> - A Boolean value that indicates whether the available licenses have been exceeded. \n  Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n  </li>\n  </ul>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
        "type": "structure",
        "members": {
          "LicenseConfigurations": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurations",
            "traits": {
              "smithy.api#documentation": "<p>Information about the license configurations.</p>"

            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListLicenseConversionTasks": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
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```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
        "type": "structure",
        "members": {
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                 "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>\n        Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n      </p>"
                }
            }
```

```
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTasks": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configuration tasks for your
account.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },

    {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
```

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            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the report generators for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest": {
        "type":
 "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:
</p>\n        <ul>\n            <li>\n                <p>\n                <code>LicenseConfigurationArn</code>\n
</p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to
 return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
            "ReportGenerators": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorList",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            },
```

"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
"type": "operation",
"input":
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Describes the
license configurations for the specified resource. "
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a resource that has an
associated license configuration. ",
"smithy.api#required": {}

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            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",

         "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {
        "LicenseSpecifications": {
            "target": "com.amazonaws.licensemanager#LicenseSpecifications",
            "traits": {
                "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
     "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation":
"<p>Lists all versions of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum
number of results to return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
        "type": "structure",
        "members": {
            "Licenses": {
                "target": "com.amazonaws.licensemanager#LicenseList",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
```

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            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the licenses for your account.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicensesRequest": {
    "type": "structure",
    "members": {
        "LicenseArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
```

"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>Status</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {

"target": "com.amazonaws.licensemanager#LicenseList",
"traits": {
"smithy.api#documentation": " License details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListReceivedGrants": {
"type": "operation",

"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists grants that are received but not accepted. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
"type": "structure",

"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are

supported: \n \n \n \n <code>ProductSKU</code>\n \n
\n \n \n <code>LicenseIssuerName</code>\n \n
\n \n \n <code>LicenseArn</code>\n \n \n
\n \n
<code>GrantStatus</code>\n \n \n \n \n
<code>GranterAccountId</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {

"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Received grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"

},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists received licenses. "
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
"type": "structure",

"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>IssuerName</code>\n
\n \n \n \n <code>Beneficiary</code>\n \n \n "

```
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
    "type": "structure",
    "members": {
        "Licenses": {

"target": "com.amazonaws.licensemanager#GrantedLicenseList",
            "traits": {
                "smithy.api#documentation": "<p>Received license details.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListResourceInventory": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"

},
        {
```

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FailedDependencyException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists resources managed using Systems Manager inventory. "
}
},
"com.amazonaws.licensemanager#ListResourceInventoryRequest": {

"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#InventoryFilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>application_name</code> - The name of the application. \n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n \n \n \n <code>license_included</code> - The type of license included. \n Logical operators are

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<code>EQUALS</code> | <code>NOT_EQUALS</code>.\n            Possible values are <code>sql-server-enterprise</code> | \n            <code>sql-server-standard</code> | \n            <code>sql-server-web</code> |  \n        <code>windows-server-datacenter</code>.</p>\n          </li>\n          <li>\n            <p>\n <code>platform</code> - The platform of the resource.\n    Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n          </li>\n <li>\n            <p>\n              <code>resource_id</code> - The ID of the resource. \n            Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n          </li>\n          <li>\n            <p>\n          <code>tag:<key></code> - The key/value combination of a tag assigned \n            to the resource. Logical operators are <code>EQUALS</code> (single account) or\n            <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account).</p>\n          </li>\n        </ul>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryResponse": {
        "type": "structure",
        "members": {
            "ResourceInventoryList": {
                "target": "com.amazonaws.licensemanager#ResourceInventoryList",
                "traits":
 {
                    "smithy.api#documentation": "<p>Information about the resources.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
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"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the tags for the specified license configuration. "
}
},
"com.amazonaws.licensemanager#ListTagsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required":
{}
}
}
}
},
"com.amazonaws.licensemanager#ListTagsForResourceResponse": {
"type": "structure",
"members": {
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Information about the tags. "
}
}
}
},
"com.amazonaws.licensemanager#ListTokens": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListTokensRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListTokensResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target":
"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists your tokens. "
}
},
"com.amazonaws.licensemanager#ListTokensRequest": {
"type": "structure",
"members": {
"TokenIds": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " Token IDs. "
}
},
"Filters": {
"target":
"com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filter is supported: \n
\n \n \n <code>LicenseArns</code>\n \n \n
"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "

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                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListTokensResponse":
{
        "type": "structure",
        "members": {
            "Tokens": {
                "target": "com.amazonaws.licensemanager#TokenList",
                "traits": {
                    "smithy.api#documentation": "<p>Received token details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
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            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying license\n        consumption details by resource
 at a selected point in time. Use this action to audit the\n        current license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {

                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>resourceArn</code> - The ARN of the license configuration resource.\n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>).
 \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>resourceAccount</code> - The ID of the account that owns the resource. \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
                }
```

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        }
    }
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
    "type": "structure",
    "members": {
        "LicenseConfigurationUsageList": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license configurations.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#Location": {
    "type": "string"
},
"com.amazonaws.licensemanager#Long": {
    "type": "long",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummary": {
    "type": "structure",
    "members": {
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
            }
        },
        "AssociationCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                 "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
```

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},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {
    "type": "integer",
    "traits": {
        "smithy.api#box": {},
        "smithy.api#range": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
     },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The key name.</p>"
            }
        },
        "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The value.</p>"
            }
        }
    },
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"traits": {
"smithy.api#documentation": " Describes key/value pairs. "
}

},
"com.amazonaws.licensemanager#MetadataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Metadata"
}
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#OrganizationConfiguration": {
"type": "structure",
"members": {
"EnableIntegration": {
"target": "com.amazonaws.licensemanager#Boolean",

"traits": {
"smithy.api#documentation": " Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {

"min": 1,
"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n
Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n
Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n
\n \n The following filters and logical operators are supported when the resource type\n

is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n
<code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n \n ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information for a license configuration. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
"type": "structure",
"members": {
"ProductInformationFilterName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Filter name. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterValue": {
"target":
"com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " Filter value. "
}
},
"ProductInformationFilterComparator": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Logical operator. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information filters. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
"type": "list",
"member": {

"target": "com.amazonaws.licensemanager#ProductInformationFilter"
}
},
"com.amazonaws.licensemanager#ProductInformationList": {
"type": "list",

"member": {
"target": "com.amazonaws.licensemanager#ProductInformation"
}
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
"type": "structure",
"members": {
"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the provisional configuration, in minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"com.amazonaws.licensemanager#RateLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"

}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "RateLimitExceeded",
"httpResponseCode": 429
},
"smithy.api#documentation": " Too many requests have been submitted. Try again after a brief wait. ",
"smithy.api#error": "client",
"smithy.api#httpError": 429
}
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
"type": "structure",
"members": {
"ReceivedStatus": {

"target": "com.amazonaws.licensemanager#ReceivedStatus",
"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {

"smithy.api#documentation": " Received status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations. "
}
}
},
"traits": {
"smithy.api#documentation": " Metadata associated with received licenses and grants. "
}
},
"com.amazonaws.licensemanager#ReceivedStatus": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "PENDING_WORKFLOW",
"name": "PENDING_WORKFLOW"
},
{
"value": "PENDING_ACCEPT",
"name": "PENDING_ACCEPT"
},
{
"value": "REJECTED",
"name": "REJECTED"
},
{
"value": "ACTIVE",
"name": "ACTIVE"
},
{
"value": "FAILED_WORKFLOW",
"name": "FAILED_WORKFLOW"
},
{

```
                "value": "DELETED",
                "name": "DELETED"
            },
            {
                "value": "DISABLED",
                "name": "DISABLED"
            },
            {
                "value": "WORKFLOW_COMPLETED",
                "name": "WORKFLOW_COMPLETED"
            }
        ]
    }
  },
  "com.amazonaws.licensemanager#RedirectException": {
    "type": "structure",
    "members": {

"Location": {
            "target": "com.amazonaws.licensemanager#Location",
            "traits": {
                "smithy.api#httpHeader": "Location"
            }
        },
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 308
    }
  },
  "com.amazonaws.licensemanager#RejectGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#RejectGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#RejectGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
         },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest":
{
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
```

```
            }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#RenewType": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "None",
                    "name": "NONE"
                },
                {
                    "value": "Weekly",
                    "name": "WEEKLY"
                },
                {
                    "value": "Monthly",
                    "name": "MONTHLY"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#ReportContext": {
        "type": "structure",
        "members": {

  "licenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration that
this generator reports on.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details of the license configuration that this generator reports on.</p>"
        }
    },
    "com.amazonaws.licensemanager#ReportFrequency": {
        "type": "structure",
```

"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "

}
},
"period": {
"target": "com.amazonaws.licensemanager#ReportFrequencyType",
"traits": {
"smithy.api#documentation": " Time period between each report. The period can be daily, weekly, or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"com.amazonaws.licensemanager#ReportFrequencyType": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "DAY",
"name": "DAY"
},
{
"value": "WEEK",
"name": "WEEK"
},
{
"value": "MONTH",

"name": "MONTH"
}
]
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the report generator. "

```
        }
    },
    "ReportType": {
        "target": "com.amazonaws.licensemanager#ReportTypeList",
        "traits": {
            "smithy.api#documentation": "<p>Type of reports that are generated.</p>"
        }
    },
    "ReportContext": {
        "target": "com.amazonaws.licensemanager#ReportContext",
        "traits": {
            "smithy.api#documentation": "<p>License configuration type for this generator.</p>"
         }
    },
    "ReportFrequency": {
        "target": "com.amazonaws.licensemanager#ReportFrequency",
        "traits": {
            "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
        }
    },
    "LicenseManagerReportGeneratorArn": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>"
        }
    },
    "LastRunStatus": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Status of the last report generation attempt.</p>"
        }
    },
    "LastRunFailureReason": {

  "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Failure message for the last report generation attempt.</p>"
        }
    },
    "LastReportGenerationTime": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Time the last report was generated at.</p>"
        }
    },
    "ReportCreatorAccount": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
```

"smithy.api#documentation": " The Amazon Web Services account ID used to create the report generator. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the report was created. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags associated with the report generator. "
}
}
},

"traits": {
"smithy.api#documentation": " Describe the details of a report generator. "
}
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportGenerator"
}
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100

```
        }
    }
},
"com.amazonaws.licensemanager#ReportType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "LicenseConfigurationSummaryReport",
                "name": "LICENSE_CONFIGURATION_SUMMARY_REPORT"
            },
            {
                "value": "LicenseConfigurationUsageReport",
                 "name": "LICENSE_CONFIGURATION_USAGE_REPORT"
            }
        ]
    }
},
"com.amazonaws.licensemanager#ReportTypeList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportType"
    }
},
"com.amazonaws.licensemanager#ResourceInventory": {
    "type": "structure",
    "members": {
        "ResourceId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>ID of the resource.</p>"
            }
        },
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Type of resource.</p>"
            }
        },
         "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
        },
        "Platform": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Platform of the resource. "
}
},
"PlatformVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Platform version of the resource in the inventory. "
}
},
"ResourceOwningAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation":
" ID of the account that owns the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a resource. "
}
},
"com.amazonaws.licensemanager#ResourceInventoryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ResourceInventory"
}
},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ResourceLimitExceeded",
"httpResponseCode": 400
},
"smithy.api#documentation": " Your resource limits have
been exceeded. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
"type": "structure",
"members": {

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        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "InvalidResource.NotFound",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The resource cannot be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "EC2_INSTANCE",
                 "name": "EC2_INSTANCE"
            },
            {
                "value": "EC2_HOST",
                "name": "EC2_HOST"
            },
            {
                "value": "EC2_AMI",
                "name": "EC2_AMI"
            },
            {
                "value": "RDS",
                "name": "RDS"
            },
            {
                "value": "SYSTEMS_MANAGER_MANAGED_INSTANCE",
                "name": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
            }
        ]
    }
},
"com.amazonaws.licensemanager#S3Location": {
    "type": "structure",
    "members": {
        "bucket": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the S3 bucket
```

reports are published to. "
}
},
"keyPrefix": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Prefix of the S3 bucket reports are published to. "
}
}
},
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InternalError",
"httpResponseCode": 500
},
"smithy.api#documentation": " The server experienced an internal error. Try again. ",
"smithy.api#error": "server",
"smithy.api#httpError": 500
}
},
"com.amazonaws.licensemanager#SignedToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 4096
}
}
},
"com.amazonaws.licensemanager#StatusReasonMessage": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 400
},

```
            "smithy.api#pattern": "^[\\s\\S]+$"
        }
    },
    "com.amazonaws.licensemanager#String": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"

      }
    },
    "com.amazonaws.licensemanager#Tag": {
        "type": "structure",
        "members": {
            "Key": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag key.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#TagList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Tag"
        }
    },
    "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
```

"input": {
"target": "com.amazonaws.licensemanager#TagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#TagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},

{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Adds the specified tags to the specified license configuration. "
}
},
"com.amazonaws.licensemanager#TagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license
configuration. ",
"smithy.api#required": {}
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " One or more tags. ",
"smithy.api#required":
{}
}
}
}

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    },
    "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
            "TokenType": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>"
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "ExpirationTime": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Token expiration time, in ISO8601-UTC format.</p>"
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Data specified by the caller.</p>"
                }
            },
            "RoleArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the roles included in the
token.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a token. "
}
},
"com.amazonaws.licensemanager#TokenList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#TokenData"
}
},
"com.amazonaws.licensemanager#TokenString": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 4096
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#TokenType": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "REFRESH_TOKEN",
"name": "REFRESH_TOKEN"
}
]
}
},
"com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The digital signature method is unsupported. Try your request again. ",

"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#UntagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UntagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Removes the specified tags from the specified license configuration. "
}
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",

```
            "traits": {
                "smithy.api#documentation": "<p>Keys identifying the tags to remove.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
    "type": "structure",
    "members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {

    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
    }
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
    "type": "structure",
    "members": {
        "LicenseConfigurationArn": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"LicenseConfigurationStatus": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
"traits": {
"smithy.api#documentation": " New status of the license configuration. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " New license rule. The only rule that you can add after you create a license\n configuration is licenseAffinityToHost. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " New number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}

},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",

"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},

```
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates a report generator.</p>\n        <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"

  }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to update.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportGeneratorName": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>",
                    "smithy.api#required": {}
                }
            },
            "Type": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports to generate. The following report types are supported:</p>\n        <ul>\n            <li>\n                <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p>\n            </li>\n            <li>\n                <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n            </li>\n        </ul>",
                    "smithy.api#required": {}
                }
            },
            "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
                    "smithy.api#documentation": "<p>The report context.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportFrequency": {
                "target": "com.amazonaws.licensemanager#ReportFrequency",
```

"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#InvalidResourceStateException"

```
        },
            {
                "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p> \n        <p>You can update the license specifications of AMIs, instances, and
hosts.\n        You cannot update the license specifications for launch templates and CloudFormation templates, \n
  as they send license configurations to the operation that creates the resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
        "type": "structure",
         "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "AddLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
                }
            },
            "RemoveLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to remove.</p>"
                }
            }
         }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#UpdateServiceSettings": {
```

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Updates License Manager settings for the current Region. "
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
"type": "structure",
"members": {
"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon S3 bucket where the License Manager information is stored. "
}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {

"smithy.api#documentation": " Enables integration with Organizations for cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Activates cross-account discovery. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UsageOperation": {
"type":
"string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
}
}
},
"com.amazonaws.licensemanager#ValidationException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The provided input is not valid. Try your request again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
}
}
}

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string
```

```
 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 //
 Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
```

```
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err
!= nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
```

```
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return
 nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
```

```
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
```

```
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
 err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
```

```
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

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// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if
 err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
```

```
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}
```

1.4260 collector-pdata 1.0.0-rcv0014

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1.4261 x-mod 0.7.0

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1.4262 pprof 0.0.0-20240227163752-401108e1b7e7

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1.4263 cos-go-sdk-v5 0.7.40

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1.4264 contrib-samplers-jaegerremote 0.7.0

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1.4265 aws-sdk-go-v2 1.44.327

1.4265.1 Available under license :


```
{
 "version": "2.0",
 "service": "<p>With License Manager, you can create user-based subscriptions to utilize licensed software with a per user subscription fee on Amazon EC2 instances.</p>",
 "operations": {
   "AssociateUser": "<p>Associates the user to an EC2 instance to utilize user-based subscriptions.</p> <note> <p>Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing. For more information, see <a href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p> </note>",
   "DeregisterIdentityProvider": "<p>Deregisters the identity provider from providing user-based subscriptions.</p>",
   "DisassociateUser": "<p>Disassociates the user from an EC2 instance providing user-based subscriptions.</p>",
   "ListIdentityProviders":
 "<p>Lists the identity providers for user-based subscriptions.</p>",
   "ListInstances": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
   "ListProductSubscriptions": "<p>Lists the user-based subscription products available from an identity provider.</p>",
   "ListUserAssociations": "<p>Lists user associations for an identity provider.</p>",
   "RegisterIdentityProvider": "<p>Registers an identity provider for user-based subscriptions.</p>",
   "StartProductSubscription": "<p>Starts a product subscription for a user with the specified identity provider.</p> <note> <p>Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing. For more information, see <a href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your monthly charges</a> in the <i>Amazon Web
 Services Billing User Guide</i>.</p> </note>",
   "StopProductSubscription": "<p>Stops a product subscription for a user with the specified identity provider.</p>",
   "UpdateIdentityProviderSettings": "<p>Updates additional product configuration settings for the registered identity provider.</p>"
 },
 "shapes": {
   "AccessDeniedException": {
     "base": "<p>You don't have sufficient access to perform this action.</p>",
     "refs": {
     }
   },
   "ActiveDirectoryIdentityProvider": {
     "base": "<p>Details about an Active Directory identity provider.</p>",
     "refs": {
       "IdentityProvider$ActiveDirectoryIdentityProvider": "<p>An object that details an Active Directory identity provider.</p>"
     }
   },
```

"AssociateUserRequest": {
"base": null,
"refs": {
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},
"AssociateUserResponse": {
"base": null,
"refs": {
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"BoxInteger": {
"base": null,
"refs": {
"ListIdentityProvidersRequest$MaxResults":
" Maximum number of results to return in a single call. ",
"ListInstancesRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListProductSubscriptionsRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListUserAssociationsRequest$MaxResults": " Maximum number of results to return in a single call. "
}
},
"ConflictException": {
"base": " The request couldn't be completed because it conflicted with the current state of the resource. ",
"refs": {
}
},
"DeregisterIdentityProviderRequest": {
"base": null,
"refs": {
}
},
"DeregisterIdentityProviderResponse": {
"base": null,
"refs": {
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"DisassociateUserRequest": {
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"refs": {
}
},
"DisassociateUserResponse": {
"base": null,
"refs": {
}
},
"Filter": {
"base": " A

filter name and value pair that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs. ",
    "refs": {
      "FilterList$member": null
    }
  },
  "FilterList": {
    "base": null,
    "refs": {
      "ListInstancesRequest$Filters": " An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify. ",
      "ListProductSubscriptionsRequest$Filters": " An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify. ",
      "ListUserAssociationsRequest$Filters": " An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify. "
    }
  },
  "IdentityProvider": {
    "base": " Details about an identity provider. ",
    "refs": {
      "AssociateUserRequest$IdentityProvider": " The identity provider of the user. ",
      "DeregisterIdentityProviderRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
      "DisassociateUserRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
      "IdentityProviderSummary$IdentityProvider": " An object that specifies details for the identity provider. ",
      "InstanceUserSummary$IdentityProvider": " An object that specifies details for the identity provider. ",
      "ListProductSubscriptionsRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
      "ListUserAssociationsRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
      "ProductUserSummary$IdentityProvider": " An object that specifies details for the identity provider. ",
      "RegisterIdentityProviderRequest$IdentityProvider":
 " An object that specifies details for the identity provider. ",
      "StartProductSubscriptionRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
      "StopProductSubscriptionRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
      "UpdateIdentityProviderSettingsRequest$IdentityProvider": null
    }
  },
  "IdentityProviderSummary": {
    "base": " Describes an identity provider. ",
    "refs": {
      "DeregisterIdentityProviderResponse$IdentityProviderSummary": " Metadata that describes the results of an identity provider operation. ",
      "IdentityProviderSummaryList$member": null,

"RegisterIdentityProviderResponse$IdentityProviderSummary": " Metadata that describes the results of an identity provider operation. ",
"UpdateIdentityProviderSettingsResponse$IdentityProviderSummary": null

}
},
"IdentityProviderSummaryList": {
"base": null,
"refs": {
"ListIdentityProvidersResponse$IdentityProviderSummaries": " Metadata that describes the list identity providers operation. "
}
},
"InstanceSummary": {
"base": " Describes an EC2 instance providing user-based subscriptions. ",
"refs": {
"InstanceSummaryList$member": null
}
},
"InstanceSummaryList": {
"base": null,
"refs": {
"ListInstancesResponse$InstanceSummaries": " Metadata that describes the list instances operation. "
}
},
"InstanceUserSummary": {
"base": " Describes users of an EC2 instance providing user-based subscriptions. ",
"refs": {
"AssociateUserResponse$InstanceUserSummary": " Metadata that describes the associate user operation. ",
"DisassociateUserResponse$InstanceUserSummary": " Metadata that describes the associate user operation. ",

"InstanceUserSummaryList$member": null
}
},
"InstanceUserSummaryList": {
"base": null,
"refs": {
"ListUserAssociationsResponse$InstanceUserSummaries": " Metadata that describes the list user association operation. "
}
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"InternalServerException": {
"base": " An exception occurred with the service. ",
"refs": {
}
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"ListIdentityProvidersRequest": {
"base": null,
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}
},
"ListIdentityProvidersResponse": {
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"ListInstancesRequest": {
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"ListProductSubscriptionsResponse": {
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},
"ListUserAssociationsRequest": {
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"refs": {
}
},
"ListUserAssociationsResponse": {
"base": null,
"refs": {
}
},
"ProductUserSummary": {
"base": " The summary of the user-based subscription products for a user. ",
"refs": {
"ProductUserSummaryList$member": null,
"StartProductSubscriptionResponse$ProductUserSummary": " Metadata that describes the start product subscription operation. ",
"StopProductSubscriptionResponse$ProductUserSummary": " Metadata that describes the start product subscription operation. "

}
},
"ProductUserSummaryList": {
"base": null,
"refs": {
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}
},
"RegisterIdentityProviderRequest": {
"base": null,
"refs": {
}
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"RegisterIdentityProviderResponse": {
"base": null,
"refs": {
}
},
"ResourceNotFoundException":
{
"base": " The resource couldn't be found. ",
"refs": {
}
},
"SecurityGroup": {
"base": null,
"refs": {
"Settings$SecurityGroupId": " A security group ID that allows inbound TCP port 1688 communication between resources in your VPC and the VPC endpoint for activation servers. ",
"UpdateSettings$SecurityGroupId": " A security group ID that allows inbound TCP port 1688 communication between resources in your VPC and the VPC endpoints for activation servers. "
}
},
"ServiceQuotaExceededException": {
"base": " The request failed because a service quota is exceeded. ",
"refs": {
}
},
"Settings": {
"base": " The registered identity providers product related configuration settings such as the subnets to provision VPC endpoints, and the security group ID that is associated with the VPC endpoints. The security group should permit inbound TCP port 1688 communication
from resources in the VPC. ",
"refs": {
"IdentityProviderSummary$Settings": " An object that details the registered identity providers product related configuration settings such as the subnets to provision VPC endpoints. ",
"RegisterIdentityProviderRequest$Settings": " The registered identity providers product related

configuration settings such as the subnets to provision VPC endpoints. "
    }
  },
  "SettingsSubnetsList": {
    "base": null,
    "refs": {
      "Settings$Subnets": " The subnets defined for the registered identity provider. "
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  },
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    "base": null,
    "refs": {
    }
  },
  "StartProductSubscriptionResponse": {
    "base": null,
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  "StopProductSubscriptionRequest": {
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    "refs": {
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  "StopProductSubscriptionResponse": {
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    "refs": {
    }
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  "String":
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    "base": null,
    "refs": {
      "AccessDeniedException$message": null,
      "ActiveDirectoryIdentityProvider$DirectoryId": " The directory ID for an Active Directory identity provider. ",
      "AssociateUserRequest$Domain": " The domain name of the user. ",
      "AssociateUserRequest$InstanceId": " The ID of the EC2 instance, which provides user-based subscriptions. ",
      "AssociateUserRequest$Username": " The user name from the identity provider for the user. ",
      "ConflictException$message": null,
      "DeregisterIdentityProviderRequest$Product": " The name of the user-based subscription product. ",
      "DisassociateUserRequest$Domain": " The domain name of the user. ",
      "DisassociateUserRequest$InstanceId": " The ID of the EC2 instance, which provides user-based subscriptions. ",
      "DisassociateUserRequest$Username": " The user name from the identity provider for the user. ",

"Filter$Attribute": " The name of an attribute to use as a filter. ",
"Filter$Operation": " The type of search (For example, eq, geq, leq) ",
"Filter$Value": " Value of the filter. ",
"IdentityProviderSummary$FailureMessage": " The failure message associated with an identity provider. ",
"IdentityProviderSummary$Product": " The name of the user-based subscription product. ",
"IdentityProviderSummary$Status": " The status of an identity provider. ",
"InstanceSummary$InstanceId": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"InstanceSummary$LastStatusCheckDate": " The date of the last status check. ",
"InstanceSummary$Status": " The status of an EC2 instance resource. ",
"InstanceSummary$StatusMessage": " The status message for an EC2 instance. ",
"InstanceUserSummary$AssociationDate": " The date a user was associated with an EC2 instance. ",
"InstanceUserSummary$DisassociationDate": " The date a user was disassociated from an EC2 instance. ",
"InstanceUserSummary$Domain": " The domain name of the user. ",
"InstanceUserSummary$InstanceId": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"InstanceUserSummary$Status": " The status of a user associated with an EC2 instance. ",
"InstanceUserSummary$StatusMessage": " The status message for users of an EC2 instance. ",
"InstanceUserSummary$Username": " The user name from the identity provider for the user. ",
"InternalServerException$message": null,
"ListIdentityProvidersRequest$NextToken": " Token for the next set of results. ",
"ListIdentityProvidersResponse$NextToken": " Token for the next set of results. ",
"ListInstancesRequest$NextToken": " Token for the next set of results. ",
"ListInstancesResponse$NextToken": " Token for the next set of results. ",
"ListProductSubscriptionsRequest$NextToken": " Token for the next set of results. ",
"ListProductSubscriptionsRequest$Product": " The name of the user-based subscription product. ",
"ListProductSubscriptionsResponse$NextToken": " Token for the next set of results. ",
"ListUserAssociationsRequest$InstanceId": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"ListUserAssociationsRequest$NextToken": " Token for the next set of results. ",
"ListUserAssociationsResponse$NextToken": " Token for the next set of results. ",
"ProductUserSummary$Domain": " The domain name of the user. ",
"ProductUserSummary$Product": " The name of the user-based subscription product. ",
"ProductUserSummary$Status": " The status of a product for a user. ",
"ProductUserSummary$StatusMessage": " The status message for a product for a user. ",
"ProductUserSummary$SubscriptionEndDate": " The end date of a subscription. ",
"ProductUserSummary$SubscriptionStartDate": " The start date of a subscription. ",
"ProductUserSummary$Username": " The user name from the identity provider of the user. ",
"RegisterIdentityProviderRequest$Product": " The name of the user-based subscription product. ",
"ResourceNotFoundException$message": null,
"ServiceQuotaExceededException$message": null,
"StartProductSubscriptionRequest$Domain": " The domain name of the user. ",
"StartProductSubscriptionRequest$Product": " The name of the user-based subscription product. ",

"StartProductSubscriptionRequest$Username": " The user name from the identity provider of the user. ",
"StopProductSubscriptionRequest$Domain": " The domain name of the user. ",
"StopProductSubscriptionRequest$Product": " The name of the user-based subscription product. ",
"StopProductSubscriptionRequest$Username": " The user name from the identity provider for the user. ",
"StringList$member": null,
"ThrottlingException$message": null,
"UpdateIdentityProviderSettingsRequest$Product": " The name of the user-based subscription product. ",
"ValidationException$message": null
}
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"StringList": {
"base": null,
"refs": {
"InstanceSummary$Products": " A list of provided user-based subscription products. "
}
},
"Subnet": {
"base": null,
"refs": {
"SettingsSubnetsList$member": null,
"Subnets$member": null
}
},
"Subnets": {
"base": null,
"refs": {
"UpdateSettings$AddSubnets": " The ID of one or more subnets in which License Manager will create a VPC endpoint for products that require connectivity to activation servers. ",
"UpdateSettings$RemoveSubnets": " The ID of one or more subnets to remove. "
}
},
"ThrottlingException": {
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"refs": {
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    "refs": {
      "UpdateIdentityProviderSettingsRequest$UpdateSettings": "<p>Updates the registered identity providers product related configuration settings. You can update any combination of settings in a single operation such as the:</p> <ul> <li> <p>Subnets which you want to add to provision VPC endpoints.</p> </li> <li> <p>Subnets which you want to remove the VPC endpoints
 from.</p> </li> <li> <p>Security group ID which permits traffic to the VPC endpoints.</p> </li> </ul>"
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      "type": "String"
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      "default": false,
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      "type": "Boolean"
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AWS SDK for Go

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{"shape":"FailedDependencyException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
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{"shape":"ServerInternalException"}
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{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
]
},
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"output":{"shape":"UntagResourceResponse"},
"errors":[
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{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
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{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
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{"shape":"ResourceLimitExceededException"}
]
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{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"ResourceNotFoundException"},
{"shape":"ResourceLimitExceededException"}
]
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"requestUri":"/"

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"output":{"shape":"UpdateLicenseSpecificationsForResourceResponse"},
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{"shape":"InvalidResourceStateException"},
{"shape":"LicenseUsageException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
]
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    "output":{"shape":"UpdateServiceSettingsResponse"},
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      {"shape":"ServerInternalException"},
      {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
      {"shape":"RateLimitExceededException"}
     ]
  }
},
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    "required":["GrantArn"],
    "members":{
      "GrantArn":{"shape":"Arn"}
    }
  },
  "AcceptGrantResponse":{
    "type":"structure",
    "members":{
      "GrantArn":{"shape":"Arn"},
      "Status":{"shape":"GrantStatus"},
      "Version":{"shape":"String"}
    }
  },
  "AccessDeniedException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    },
    "exception":true
  },
  "ActivationOverrideBehavior":{
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    "enum":[
      "DISTRIBUTED_GRANTS_ONLY",
      "ALL_GRANTS_PERMITTED_BY_ISSUER"
    ]
  },
  "AllowedOperation":{
    "type":"string",
    "enum":[
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"CreateGrant",
"CheckoutLicense",
"CheckoutBorrowLicense",
"CheckInLicense",
"ExtendConsumptionLicense",
"ListPurchasedLicenses",
"CreateToken"
]
},
"AllowedOperationList":{
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"min":1
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"Arn":{
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"max":2048,
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},
"ArnList":{
"type":"list",
"member":{"shape":"Arn"}
},
"AuthorizationException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"exception":true
},
"AutomatedDiscoveryInformation":{
"type":"structure",
"members":{
"LastRunTime":{"shape":"DateTime"}
}
},
"Boolean":{"type":"boolean"},
"BorrowConfiguration":{
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"MaxTimeToLiveInMinutes"
],
"members":{
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"MaxTimeToLiveInMinutes":{"shape":"BoxInteger"}

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    }
  },
  "BoxBoolean":{"type":"boolean"},
  "BoxInteger":{"type":"integer"},
  "BoxLong":{"type":"long"},
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    "required":["LicenseConsumptionToken"],
    "members":{
      "LicenseConsumptionToken":{"shape":"String"},
      "Beneficiary":{"shape":"String"}
    }
  },
  "CheckInLicenseResponse":{
    "type":"structure",
    "members":{
    }
  },
  "CheckoutBorrowLicenseRequest":{
    "type":"structure",
    "required":[
      "LicenseArn",
      "Entitlements",
      "DigitalSignatureMethod",
      "ClientToken"
    ],
    "members":{
      "LicenseArn":{"shape":"Arn"},
      "Entitlements":{"shape":"EntitlementDataList"},
      "DigitalSignatureMethod":{"shape":"DigitalSignatureMethod"},
      "NodeId":{"shape":"String"},
      "CheckoutMetadata":{"shape":"MetadataList"},
      "ClientToken":{"shape":"ClientToken"}
    }
  },

  "CheckoutBorrowLicenseResponse":{
    "type":"structure",
    "members":{
      "LicenseArn":{"shape":"Arn"},
      "LicenseConsumptionToken":{"shape":"String"},
      "EntitlementsAllowed":{"shape":"EntitlementDataList"},
      "NodeId":{"shape":"String"},
      "SignedToken":{"shape":"SignedToken"},
      "IssuedAt":{"shape":"ISO8601DateTime"},
      "Expiration":{"shape":"ISO8601DateTime"},
      "CheckoutMetadata":{"shape":"MetadataList"}
    }
```

},
"CheckoutLicenseRequest":{
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  "required":[
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    "CheckoutType",
    "KeyFingerprint",
    "Entitlements",
    "ClientToken"
  ],
  "members":{
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    "CheckoutType":{"shape":"CheckoutType"},
    "KeyFingerprint":{"shape":"String"},
    "Entitlements":{"shape":"EntitlementDataList"},
    "ClientToken":{"shape":"ClientToken"},
    "Beneficiary":{"shape":"String"},
    "NodeId":{"shape":"String"}
   }
},
"CheckoutLicenseResponse":{
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    "EntitlementsAllowed":{"shape":"EntitlementDataList"},
    "SignedToken":{"shape":"SignedToken"},
    "NodeId":{"shape":"String"},
    "IssuedAt":{"shape":"ISO8601DateTime"},
    "Expiration":{"shape":"ISO8601DateTime"},
    "LicenseArn":{"shape":"String"}
  }
},
"CheckoutType":{
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  "enum":[
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    "PERPETUAL"
  ]
},
"ClientRequestToken":{
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  "min":1
},
"ClientToken":{
  "type":"string",
  "max":2048,

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  "pattern":"\\S+"
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  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"ConsumedLicenseSummary":{
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   "members":{
    "ResourceType":{"shape":"ResourceType"},
    "ConsumedLicenses":{"shape":"BoxLong"}
  }
},
"ConsumedLicenseSummaryList":{
  "type":"list",
  "member":{"shape":"ConsumedLicenseSummary"}
},
"ConsumptionConfiguration":{
  "type":"structure",
  "members":{
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    "ProvisionalConfiguration":{"shape":"ProvisionalConfiguration"},
    "BorrowConfiguration":{"shape":"BorrowConfiguration"}
  }
},
"CreateGrantRequest":{
  "type":"structure",
  "required":[
    "ClientToken",
    "GrantName",
    "LicenseArn",
    "Principals",
    "HomeRegion",
    "AllowedOperations"
  ],
  "members":{
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    "GrantName":{"shape":"String"},
    "LicenseArn":{"shape":"Arn"},
    "Principals":{"shape":"PrincipalArnList"},
    "HomeRegion":{"shape":"String"},
    "AllowedOperations":{"shape":"AllowedOperationList"}
   }
},
"CreateGrantResponse":{
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"Version":{"shape":"String"}
}
},
"CreateGrantVersionRequest":{
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"ClientToken",
"GrantArn"
],
"members":{
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"GrantArn":{"shape":"Arn"},
"GrantName":{"shape":"String"},
"AllowedOperations":{"shape":"AllowedOperationList"},
"Status":{"shape":"GrantStatus"},
"StatusReason":{"shape":"StatusReasonMessage"},
"SourceVersion":{"shape":"String"},
"Options":{"shape":"Options"}
}
},
"CreateGrantVersionResponse":{
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"members":{
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"Status":{"shape":"GrantStatus"},
"Version":{"shape":"String"}
}
},
"CreateLicenseConfigurationRequest":{
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"Name",
"LicenseCountingType"
],
"members":{
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"Description":{"shape":"String"},
"LicenseCountingType":{"shape":"LicenseCountingType"},
"LicenseCount":{"shape":"BoxLong"},
"LicenseCountHardLimit":{"shape":"BoxBoolean"},
"LicenseRules":{"shape":"StringList"},
"Tags":{"shape":"TagList"},
"DisassociateWhenNotFound":{"shape":"BoxBoolean"},
"ProductInformationList":{"shape":"ProductInformationList"}

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  }
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"CreateLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
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"CreateLicenseConversionTaskForResourceRequest":{
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    "SourceLicenseContext",
    "DestinationLicenseContext"
  ],
  "members":{
    "ResourceArn":{"shape":"Arn"},
     "SourceLicenseContext":{"shape":"LicenseConversionContext"},
    "DestinationLicenseContext":{"shape":"LicenseConversionContext"}
  }
},
"CreateLicenseConversionTaskForResourceResponse":{
  "type":"structure",
  "members":{
    "LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"}
  }
},
"CreateLicenseManagerReportGeneratorRequest":{
  "type":"structure",
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    "ReportGeneratorName",
    "Type",
    "ReportContext",
    "ReportFrequency",
    "ClientToken"
  ],
  "members":{
    "ReportGeneratorName":{"shape":"ReportGeneratorName"},
    "Type":{"shape":"ReportTypeList"},
    "ReportContext":{"shape":"ReportContext"},
    "ReportFrequency":{"shape":"ReportFrequency"},
    "ClientToken":{"shape":"ClientRequestToken"},
    "Description":{"shape":"String"},
    "Tags":{"shape":"TagList"}
  }
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"CreateLicenseManagerReportGeneratorResponse":{
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"CreateLicenseRequest":{
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"ProductName",
"ProductSKU",
"Issuer",
"HomeRegion",
"Validity",
"Entitlements",
"Beneficiary",
"ConsumptionConfiguration",
"ClientToken"
],
"members":{
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"ProductName":{"shape":"String"},
"ProductSKU":{"shape":"String"},
"Issuer":{"shape":"Issuer"},
"HomeRegion":{"shape":"String"},
"Validity":{"shape":"DatetimeRange"},
"Entitlements":{"shape":"EntitlementList"},
"Beneficiary":{"shape":"String"},
"ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
"LicenseMetadata":{"shape":"MetadataList"},
"ClientToken":{"shape":"ClientToken"}

}
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"Version":{"shape":"String"}
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"CreateLicenseVersionRequest":{
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"LicenseName",
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"Issuer",
"HomeRegion",
"Validity",
"Entitlements",
"ConsumptionConfiguration",
"Status",
"ClientToken"
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"ProductName":{"shape":"String"},
"Issuer":{"shape":"Issuer"},
"HomeRegion":{"shape":"String"},
"Validity":{"shape":"DatetimeRange"},
"LicenseMetadata":{"shape":"MetadataList"},
"Entitlements":{"shape":"EntitlementList"},
"ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
"Status":{"shape":"LicenseStatus"},
"ClientToken":{"shape":"ClientToken"},
"SourceVersion":{"shape":"String"}
}
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"CreateLicenseVersionResponse":{
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"Version":{"shape":"String"},
"Status":{"shape":"LicenseStatus"}
}
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"ClientToken"
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"RoleArns":{"shape":"ArnList"},
"ExpirationInDays":{"shape":"Integer"},
"TokenProperties":{"shape":"MaxSize3StringList"},
"ClientToken":{"shape":"ClientToken"}
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}
},
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"End":{"shape":"ISO8601DateTime"}
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"Version"
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"StatusReason":{"shape":"StatusReasonMessage"},
"Version":{"shape":"String"}
}
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"DeleteGrantResponse":{
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"members":{
"GrantArn":{"shape":"Arn"},
"Status":{"shape":"GrantStatus"},
"Version":{"shape":"String"}
}
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"DeleteLicenseConfigurationRequest":{
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"DeleteLicenseConfigurationResponse":{
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"members":{
}
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"DeleteLicenseManagerReportGeneratorResponse":{
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"LicenseArn",
"SourceVersion"
],
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"SourceVersion":{"shape":"String"}
}
},
"DeleteLicenseResponse":{
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"members":{
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"DeletionDate":{"shape":"ISO8601DateTime"}
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},
"DeleteTokenResponse":{
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"members":{
}
},
"DigitalSignatureMethod":{

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"enum":["JWT_PS384"]
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"Entitlement":{
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"Name",
"Unit"
],
"members":{
"Name":{"shape":"String"},
"Value":{"shape":"String"},
"MaxCount":{"shape":"Long"},
"Overage":{"shape":"BoxBoolean"},
"Unit":{"shape":"EntitlementUnit"},
"AllowCheckIn":{"shape":"BoxBoolean"}
}
},
"EntitlementData":{
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"Name",
"Unit"
],
"members":{
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"Value":{"shape":"String"},
"Unit":{"shape":"EntitlementDataUnit"}
}
},
"EntitlementDataList":{
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"member":{"shape":"EntitlementData"}
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"enum":[
"Count",
"None",
"Seconds",
"Microseconds",
"Milliseconds",
"Bytes",
"Kilobytes",

"Megabytes",
"Gigabytes",
"Terabytes",
"Bits",
"Kilobits",
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"Gigabits",
"Terabits",

"Percent",
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"Terabits/Second",
"Count/Second"
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},
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},
"exception":true
},
"EntitlementUnit":{
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"Seconds",
"Microseconds",
"Milliseconds",
"Bytes",
"Kilobytes",
"Megabytes",
"Gigabytes",
"Terabytes",

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"Count/Second"
]
},
"EntitlementUsage":{
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"required":[
"Name",
"ConsumedValue",
"Unit"
],
"members":{
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"ConsumedValue":{"shape":"String"},
"MaxCount":{"shape":"String"},
"Unit":{"shape":"EntitlementDataUnit"}
}
},
"EntitlementUsageList":{
"type":"list",
"member":{"shape":"EntitlementUsage"}
},
"ExtendLicenseConsumptionRequest":{
"type":"structure",
"required":["LicenseConsumptionToken"],
"members":{
"LicenseConsumptionToken":{"shape":"String"},
"DryRun":{"shape":"Boolean"}
}
},
"ExtendLicenseConsumptionResponse":{
"type":"structure",
"members":{
"LicenseConsumptionToken":{"shape":"String"},
"Expiration":{"shape":"ISO8601DateTime"}
}
},
"FailedDependencyException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"},
"ErrorCode":{"shape":"String"}

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  },
  "exception":true
},
"Filter":{
  "type":"structure",
  "members":{
    "Name":{"shape":"FilterName"},
    "Values":{"shape":"FilterValues"}
  }
},
"FilterLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"FilterList":{
  "type":"list",
  "member":{"shape":"Filter"}
},
"FilterName":{"type":"string"},
"FilterValue":{"type":"string"},
"FilterValues":{
  "type":"list",
  "member":{"shape":"FilterValue"}
 },
"Filters":{
  "type":"list",
  "member":{"shape":"Filter"}
},
"GetAccessTokenRequest":{
  "type":"structure",
  "required":["Token"],
  "members":{
    "Token":{"shape":"TokenString"},
    "TokenProperties":{"shape":"MaxSize3StringList"}
  }
},
"GetAccessTokenResponse":{
  "type":"structure",
  "members":{
    "AccessToken":{"shape":"TokenString"}
  }
},
"GetGrantRequest":{
  "type":"structure",
  "required":["GrantArn"],
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"members":{
"GrantArn":{"shape":"Arn"},
"Version":{"shape":"String"}
}
},
"GetGrantResponse":{
"type":"structure",
"members":{
"Grant":{"shape":"Grant"}
}
},
"GetLicenseConfigurationRequest":{
"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{
"LicenseConfigurationArn":{"shape":"String"}
}
},
"GetLicenseConfigurationResponse":{
"type":"structure",
"members":{
"LicenseConfigurationId":{"shape":"String"},
"LicenseConfigurationArn":{"shape":"String"},
"Name":{"shape":"String"},
"Description":{"shape":"String"},
"LicenseCountingType":{"shape":"LicenseCountingType"},
"LicenseRules":{"shape":"StringList"},
"LicenseCount":{"shape":"BoxLong"},
"LicenseCountHardLimit":{"shape":"BoxBoolean"},
"ConsumedLicenses":{"shape":"BoxLong"},
"Status":{"shape":"String"},
"OwnerAccountId":{"shape":"String"},
"ConsumedLicenseSummaryList":{"shape":"ConsumedLicenseSummaryList"},
"ManagedResourceSummaryList":{"shape":"ManagedResourceSummaryList"},
"Tags":{"shape":"TagList"},
"ProductInformationList":{"shape":"ProductInformationList"},
"AutomatedDiscoveryInformation":{"shape":"AutomatedDiscoveryInformation"},
"DisassociateWhenNotFound":{"shape":"BoxBoolean"}
}
},
"GetLicenseConversionTaskRequest":{
"type":"structure",
"required":["LicenseConversionTaskId"],
"members":{
"LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"}
}
},
"GetLicenseConversionTaskResponse":{

"type":"structure",
"members":{
"LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"},
"ResourceArn":{"shape":"String"},
"SourceLicenseContext":{"shape":"LicenseConversionContext"},
"DestinationLicenseContext":{"shape":"LicenseConversionContext"},
"StatusMessage":{"shape":"String"},
"Status":{"shape":"LicenseConversionTaskStatus"},
"StartTime":{"shape":"DateTime"},
"LicenseConversionTime":{"shape":"DateTime"},
"EndTime":{"shape":"DateTime"}
}
},
"GetLicenseManagerReportGeneratorRequest":{
"type":"structure",
"required":["LicenseManagerReportGeneratorArn"],
"members":{
"LicenseManagerReportGeneratorArn":{"shape":"String"}
}
},
"GetLicenseManagerReportGeneratorResponse":{
"type":"structure",
"members":{
"ReportGenerator":{"shape":"ReportGenerator"}
}
},
"GetLicenseRequest":{
"type":"structure",
"required":["LicenseArn"],
"members":{
"LicenseArn":{"shape":"Arn"},
"Version":{"shape":"String"}
}
},
"GetLicenseResponse":{
"type":"structure",
"members":{
"License":{"shape":"License"}
}
},
"GetLicenseUsageRequest":{
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"required":["LicenseArn"],
"members":{
"LicenseArn":{"shape":"Arn"}
}
},
"GetLicenseUsageResponse":{

"type":"structure",
"members":{
"LicenseUsage":{"shape":"LicenseUsage"}
}
},
"GetServiceSettingsRequest":{
"type":"structure",
"members":{
}
},
"GetServiceSettingsResponse":{
"type":"structure",
"members":{
"S3BucketArn":{"shape":"String"},
"SnsTopicArn":{"shape":"String"},
"OrganizationConfiguration":{"shape":"OrganizationConfiguration"},
"EnableCrossAccountsDiscovery":{"shape":"BoxBoolean"},
"LicenseManagerResourceShareArn":{"shape":"String"}
}
},
"Grant":{
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"required":[
"GrantArn",
"GrantName",
"ParentArn",
"LicenseArn",
"GranteePrincipalArn",
"HomeRegion",
"GrantStatus",
"Version",
"GrantedOperations"
],
"members":{
"GrantArn":{"shape":"Arn"},
"GrantName":{"shape":"String"},
"ParentArn":{"shape":"Arn"},
"LicenseArn":{"shape":"Arn"},
"GranteePrincipalArn":{"shape":"Arn"},
"HomeRegion":{"shape":"String"},
"GrantStatus":{"shape":"GrantStatus"},
"StatusReason":{"shape":"StatusReasonMessage"},
"Version":{"shape":"String"},
"GrantedOperations":{"shape":"AllowedOperationList"},
"Options":{"shape":"Options"}
}
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"GrantList":{

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"GrantStatus":{
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"PENDING_ACCEPT",
"REJECTED",
"ACTIVE",
"FAILED_WORKFLOW",
"DELETED",
"PENDING_DELETE",
"DISABLED",
"WORKFLOW_COMPLETED"
]
},
"GrantedLicense":{
"type":"structure",
"members":{
"LicenseArn":{"shape":"Arn"},
"LicenseName":{"shape":"String"},
"ProductName":{"shape":"String"},
"ProductSKU":{"shape":"String"},
"Issuer":{"shape":"IssuerDetails"},
"HomeRegion":{"shape":"String"},
"Status":{"shape":"LicenseStatus"},
"Validity":{"shape":"DatetimeRange"},
"Beneficiary":{"shape":"String"},
"Entitlements":{"shape":"EntitlementList"},
"ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},

"LicenseMetadata":{"shape":"MetadataList"},
"CreateTime":{"shape":"ISO8601DateTime"},
"Version":{"shape":"String"},
"ReceivedMetadata":{"shape":"ReceivedMetadata"}
}
},
"GrantedLicenseList":{
"type":"list",
"member":{"shape":"GrantedLicense"}
},
"ISO8601DateTime":{
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"pattern":"^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
},

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  "exception":true,
  "synthetic":true
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"InvalidResourceStateException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
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"InventoryFilter":{
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  "required":[
     "Name",
    "Condition"
  ],
  "members":{
    "Name":{"shape":"String"},
    "Condition":{"shape":"InventoryFilterCondition"},
    "Value":{"shape":"String"}
  }
},
"InventoryFilterCondition":{
  "type":"string",
  "enum":[
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    "NOT_EQUALS",
    "BEGINS_WITH",
    "CONTAINS"
  ]
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"InventoryFilterList":{
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  "required":["Name"],
  "members":{
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    "SignKey":{"shape":"String"}
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"IssuerDetails":{
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    "SignKey":{"shape":"String"},
    "KeyFingerprint":{"shape":"String"}
  }
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"License":{
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"ProductName":{"shape":"String"},
    "ProductSKU":{"shape":"String"},
    "Issuer":{"shape":"IssuerDetails"},
    "HomeRegion":{"shape":"String"},
    "Status":{"shape":"LicenseStatus"},
    "Validity":{"shape":"DatetimeRange"},
    "Beneficiary":{"shape":"String"},
    "Entitlements":{"shape":"EntitlementList"},
    "ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
    "LicenseMetadata":{"shape":"MetadataList"},
    "CreateTime":{"shape":"ISO8601DateTime"},
    "Version":{"shape":"String"}
  }
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"LicenseConfiguration":{
  "type":"structure",
  "members":{
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    "LicenseConfigurationArn":{"shape":"String"},
    "Name":{"shape":"String"},
    "Description":{"shape":"String"},
    "LicenseCountingType":{"shape":"LicenseCountingType"},
    "LicenseRules":{"shape":"StringList"},
    "LicenseCount":{"shape":"BoxLong"},
    "LicenseCountHardLimit":{"shape":"BoxBoolean"},
     "DisassociateWhenNotFound":{"shape":"BoxBoolean"},
    "ConsumedLicenses":{"shape":"BoxLong"},
    "Status":{"shape":"String"},
    "OwnerAccountId":{"shape":"String"},
    "ConsumedLicenseSummaryList":{"shape":"ConsumedLicenseSummaryList"},
    "ManagedResourceSummaryList":{"shape":"ManagedResourceSummaryList"},
    "ProductInformationList":{"shape":"ProductInformationList"},
    "AutomatedDiscoveryInformation":{"shape":"AutomatedDiscoveryInformation"}

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  }
},
"LicenseConfigurationAssociation":{
  "type":"structure",
  "members":{
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    "ResourceType":{"shape":"ResourceType"},
    "ResourceOwnerId":{"shape":"String"},
    "AssociationTime":{"shape":"DateTime"},
    "AmiAssociationScope":{"shape":"String"}
  }
},
"LicenseConfigurationAssociations":{
  "type":"list",
  "member":{"shape":"LicenseConfigurationAssociation"}
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"LicenseConfigurationStatus":{
  "type":"string",
  "enum":[
    "AVAILABLE",
    "DISABLED"
  ]
},
"LicenseConfigurationUsage":{
  "type":"structure",
  "members":{
    "ResourceArn":{"shape":"String"},
    "ResourceType":{"shape":"ResourceType"},
    "ResourceStatus":{"shape":"String"},
    "ResourceOwnerId":{"shape":"String"},
    "AssociationTime":{"shape":"DateTime"},
    "ConsumedLicenses":{"shape":"BoxLong"}
  }
},
"LicenseConfigurationUsageList":{
  "type":"list",
  "member":{"shape":"LicenseConfigurationUsage"}
},
"LicenseConfigurations":{
  "type":"list",
  "member":{"shape":"LicenseConfiguration"}
},
"LicenseConversionContext":{
  "type":"structure",
  "members":{
    "UsageOperation":{"shape":"UsageOperation"}
  }
},
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"LicenseConversionTask":{
  "type":"structure",
  "members":{
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     "ResourceArn":{"shape":"String"},
    "SourceLicenseContext":{"shape":"LicenseConversionContext"},
    "DestinationLicenseContext":{"shape":"LicenseConversionContext"},
    "Status":{"shape":"LicenseConversionTaskStatus"},
    "StatusMessage":{"shape":"String"},
    "StartTime":{"shape":"DateTime"},
    "LicenseConversionTime":{"shape":"DateTime"},
    "EndTime":{"shape":"DateTime"}
  }
},
"LicenseConversionTaskId":{
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  "max":50,
  "pattern":"^lct-[a-zA-Z0-9]*"
},
"LicenseConversionTaskStatus":{
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  "enum":[
    "IN_PROGRESS",
    "SUCCEEDED",
    "FAILED"
  ]
},
"LicenseConversionTasks":{
  "type":"list",
  "member":{"shape":"LicenseConversionTask"}
},
"LicenseCountingType":{
  "type":"string",
  "enum":[
    "vCPU",
    "Instance",
    "Core",
    "Socket"
  ]
},
"LicenseDeletionStatus":{
   "type":"string",
  "enum":[
    "PENDING_DELETE",
    "DELETED"
  ]
},
"LicenseList":{

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  "type":"list",
  "member":{"shape":"License"}
},
"LicenseOperationFailure":{
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  "members":{
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    "ResourceType":{"shape":"ResourceType"},
    "ErrorMessage":{"shape":"String"},
    "FailureTime":{"shape":"DateTime"},
    "OperationName":{"shape":"String"},
    "ResourceOwnerId":{"shape":"String"},
    "OperationRequestedBy":{"shape":"String"},
    "MetadataList":{"shape":"MetadataList"}
  }
},
"LicenseOperationFailureList":{
  "type":"list",
  "member":{"shape":"LicenseOperationFailure"}
},
"LicenseSpecification":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"},
    "AmiAssociationScope":{"shape":"String"}
  }
},
 "LicenseSpecifications":{
  "type":"list",
  "member":{"shape":"LicenseSpecification"}
},
"LicenseStatus":{
  "type":"string",
  "enum":[
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    "PENDING_AVAILABLE",
    "DEACTIVATED",
    "SUSPENDED",
    "EXPIRED",
    "PENDING_DELETE",
    "DELETED"
  ]
},
"LicenseUsage":{
  "type":"structure",
  "members":{
    "EntitlementUsages":{"shape":"EntitlementUsageList"}
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  }
},
"LicenseUsageException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"ListAssociationsForLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
  }
},
"ListAssociationsForLicenseConfigurationResponse":{
  "type":"structure",
   "members":{
    "LicenseConfigurationAssociations":{"shape":"LicenseConfigurationAssociations"},
    "NextToken":{"shape":"String"}
  }
},
"ListDistributedGrantsRequest":{
  "type":"structure",
  "members":{
    "GrantArns":{"shape":"ArnList"},
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListDistributedGrantsResponse":{
  "type":"structure",
  "members":{
    "Grants":{"shape":"GrantList"},
    "NextToken":{"shape":"String"}
  }
},
"ListFailuresForLicenseConfigurationOperationsRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
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  }
},
"ListFailuresForLicenseConfigurationOperationsResponse":{
  "type":"structure",
   "members":{
    "LicenseOperationFailureList":{"shape":"LicenseOperationFailureList"},
    "NextToken":{"shape":"String"}
  }
},
"ListLicenseConfigurationsRequest":{
  "type":"structure",
  "members":{
    "LicenseConfigurationArns":{"shape":"StringList"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"},
    "Filters":{"shape":"Filters"}
  }
},
"ListLicenseConfigurationsResponse":{
  "type":"structure",
  "members":{
    "LicenseConfigurations":{"shape":"LicenseConfigurations"},
    "NextToken":{"shape":"String"}
  }
},
"ListLicenseConversionTasksRequest":{
  "type":"structure",
  "members":{
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"BoxInteger"},
    "Filters":{"shape":"Filters"}
  }
},
"ListLicenseConversionTasksResponse":{
  "type":"structure",
  "members":{
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     "NextToken":{"shape":"String"}
  }
},
"ListLicenseManagerReportGeneratorsRequest":{
  "type":"structure",
  "members":{
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    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
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"ListLicenseManagerReportGeneratorsResponse":{
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"NextToken":{"shape":"String"}
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},
"ListLicenseSpecificationsForResourceRequest":{
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"members":{
"ResourceArn":{"shape":"String"},
"MaxResults":{"shape":"BoxInteger"},
"NextToken":{"shape":"String"}
}
},
"ListLicenseSpecificationsForResourceResponse":{
"type":"structure",
"members":{
"LicenseSpecifications":{"shape":"LicenseSpecifications"},
"NextToken":{"shape":"String"}

}
},
"ListLicenseVersionsRequest":{
"type":"structure",
"required":["LicenseArn"],
"members":{
"LicenseArn":{"shape":"Arn"},
"NextToken":{"shape":"String"},
"MaxResults":{"shape":"MaxSize100"}
}
},
"ListLicenseVersionsResponse":{
"type":"structure",
"members":{
"Licenses":{"shape":"LicenseList"},
"NextToken":{"shape":"String"}
}
},
"ListLicensesRequest":{
"type":"structure",
"members":{
"LicenseArns":{"shape":"ArnList"},
"Filters":{"shape":"FilterList"},
"NextToken":{"shape":"String"},
"MaxResults":{"shape":"MaxSize100"}
}

},
"ListLicensesResponse":{
  "type":"structure",
  "members":{
    "Licenses":{"shape":"LicenseList"},
    "NextToken":{"shape":"String"}
  }
},
"ListReceivedGrantsForOrganizationRequest":{
  "type":"structure",
  "required":["LicenseArn"],
  "members":{
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     "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListReceivedGrantsForOrganizationResponse":{
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  "members":{
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    "NextToken":{"shape":"String"}
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},
"ListReceivedGrantsRequest":{
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  "members":{
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    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListReceivedGrantsResponse":{
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  "members":{
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    "NextToken":{"shape":"String"}
  }
},
"ListReceivedLicensesForOrganizationRequest":{
  "type":"structure",
  "members":{
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    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}

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    }
  },
  "ListReceivedLicensesForOrganizationResponse":{
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      "NextToken":{"shape":"String"}
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  },
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    "members":{
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      "Filters":{"shape":"FilterList"},
      "NextToken":{"shape":"String"},
      "MaxResults":{"shape":"MaxSize100"}
    }
  },
  "ListReceivedLicensesResponse":{
    "type":"structure",
    "members":{
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      "NextToken":{"shape":"String"}
    }
  },
  "ListResourceInventoryRequest":{
    "type":"structure",
    "members":{
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      "NextToken":{"shape":"String"},
      "Filters":{"shape":"InventoryFilterList"}
    }
  },
  "ListResourceInventoryResponse":{
    "type":"structure",
    "members":{
      "ResourceInventoryList":{"shape":"ResourceInventoryList"},
       "NextToken":{"shape":"String"}
    }
  },
  "ListTagsForResourceRequest":{
    "type":"structure",
    "required":["ResourceArn"],
    "members":{
      "ResourceArn":{"shape":"String"}
    }
  },
  "ListTagsForResourceResponse":{
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"type":"structure",
"members":{
"Tags":{"shape":"TagList"}
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},
"ListTokensRequest":{
"type":"structure",
"members":{
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"Filters":{"shape":"FilterList"},
"NextToken":{"shape":"String"},
"MaxResults":{"shape":"MaxSize100"}
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"ListTokensResponse":{
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"members":{
"Tokens":{"shape":"TokenList"},
"NextToken":{"shape":"String"}
}
},
"ListUsageForLicenseConfigurationRequest":{
"type":"structure",
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"MaxResults":{"shape":"BoxInteger"},
"NextToken":{"shape":"String"},
"Filters":{"shape":"Filters"}
}
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"ListUsageForLicenseConfigurationResponse":{
"type":"structure",
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"NextToken":{"shape":"String"}
}
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"type":"structure",
"members":{
"ResourceType":{"shape":"ResourceType"},
"AssociationCount":{"shape":"BoxLong"}
}
},
"ManagedResourceSummaryList":{

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  "type":"list",
  "member":{"shape":"ManagedResourceSummary"}
},
"MaxSize100":{
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  "max":100,
  "min":1
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"MaxSize3StringList":{
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  "member":{"shape":"String"},
  "max":3
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"Message":{"type":"string"},
"Metadata":{
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   "members":{
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    "Value":{"shape":"String"}
  }
},
"MetadataList":{
  "type":"list",
  "member":{"shape":"Metadata"}
},
"NoEntitlementsAllowedException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"Options":{
  "type":"structure",
  "members":{
    "ActivationOverrideBehavior":{"shape":"ActivationOverrideBehavior"}
  }
},
"OrganizationConfiguration":{
  "type":"structure",
  "required":["EnableIntegration"],
  "members":{
    "EnableIntegration":{"shape":"Boolean"}
  }
},
"PrincipalArnList":{
  "type":"list",
  "member":{"shape":"Arn"},
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  "max":1,
  "min":1
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"ProductInformation":{
  "type":"structure",
  "required":[
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    "ProductInformationFilterList"
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  "members":{
    "ResourceType":{"shape":"String"},
     "ProductInformationFilterList":{"shape":"ProductInformationFilterList"}
  }
},
"ProductInformationFilter":{
  "type":"structure",
  "required":[
    "ProductInformationFilterName",
    "ProductInformationFilterComparator"
  ],
  "members":{
    "ProductInformationFilterName":{"shape":"String"},
    "ProductInformationFilterValue":{"shape":"StringList"},
    "ProductInformationFilterComparator":{"shape":"String"}
  }
},
"ProductInformationFilterList":{
  "type":"list",
  "member":{"shape":"ProductInformationFilter"}
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"ProductInformationList":{
  "type":"list",
  "member":{"shape":"ProductInformation"}
},
"ProvisionalConfiguration":{
  "type":"structure",
  "required":["MaxTimeToLiveInMinutes"],
  "members":{
    "MaxTimeToLiveInMinutes":{"shape":"BoxInteger"}
  }
},
"RateLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
   },
  "exception":true
},
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"ReceivedMetadata":{
  "type":"structure",
  "members":{
    "ReceivedStatus":{"shape":"ReceivedStatus"},
    "ReceivedStatusReason":{"shape":"StatusReasonMessage"},
    "AllowedOperations":{"shape":"AllowedOperationList"}
  }
},
"ReceivedStatus":{
  "type":"string",
  "enum":[
    "PENDING_WORKFLOW",
    "PENDING_ACCEPT",
    "REJECTED",
    "ACTIVE",
    "FAILED_WORKFLOW",
    "DELETED",
    "DISABLED",
    "WORKFLOW_COMPLETED"
  ]
},
"RedirectException":{
  "type":"structure",
  "members":{
    "Location":{"shape":"Location"},
    "Message":{"shape":"Message"}
  },
  "exception":true
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"RejectGrantRequest":{
  "type":"structure",
  "required":["GrantArn"],
  "members":{
    "GrantArn":{"shape":"Arn"}
  }
},
"RejectGrantResponse":{
  "type":"structure",
  "members":{
     "GrantArn":{"shape":"Arn"},
    "Status":{"shape":"GrantStatus"},
    "Version":{"shape":"String"}
  }
},
"RenewType":{
  "type":"string",
  "enum":[
    "None",

"Weekly",
"Monthly"
]
},
"ReportContext":{
"type":"structure",
"required":["licenseConfigurationArns"],
"members":{
"licenseConfigurationArns":{"shape":"ArnList"}
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},
"ReportFrequency":{
"type":"structure",
"members":{
"value":{"shape":"Integer"},
"period":{"shape":"ReportFrequencyType"}
}
},
"ReportFrequencyType":{
"type":"string",
"enum":[
"DAY",
"WEEK",
"MONTH"
]
},
"ReportGenerator":{
"type":"structure",
"members":{
"ReportGeneratorName":{"shape":"String"},
"ReportType":{"shape":"ReportTypeList"},
"ReportContext":{"shape":"ReportContext"},
"ReportFrequency":{"shape":"ReportFrequency"},
"LicenseManagerReportGeneratorArn":{"shape":"String"},
"LastRunStatus":{"shape":"String"},
"LastRunFailureReason":{"shape":"String"},
"LastReportGenerationTime":{"shape":"String"},
"ReportCreatorAccount":{"shape":"String"},
"Description":{"shape":"String"},
"S3Location":{"shape":"S3Location"},
"CreateTime":{"shape":"String"},
"Tags":{"shape":"TagList"}
}
},
"ReportGeneratorList":{
"type":"list",
"member":{"shape":"ReportGenerator"}
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"ReportGeneratorName":{
  "type":"string",
  "max":100,
  "min":1
},
"ReportType":{
  "type":"string",
  "enum":[
    "LicenseConfigurationSummaryReport",
    "LicenseConfigurationUsageReport"
  ]
},
"ReportTypeList":{
  "type":"list",
  "member":{"shape":"ReportType"}
},
"ResourceInventory":{
  "type":"structure",
  "members":{
    "ResourceId":{"shape":"String"},
     "ResourceType":{"shape":"ResourceType"},
    "ResourceArn":{"shape":"String"},
    "Platform":{"shape":"String"},
    "PlatformVersion":{"shape":"String"},
    "ResourceOwningAccountId":{"shape":"String"}
  }
},
"ResourceInventoryList":{
  "type":"list",
  "member":{"shape":"ResourceInventory"}
},
"ResourceLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
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  "exception":true
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"ResourceNotFoundException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
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"ResourceType":{
  "type":"string",
  "enum":[

"EC2_INSTANCE",
"EC2_HOST",
"EC2_AMI",
"RDS",
"SYSTEMS_MANAGER_MANAGED_INSTANCE"
]
},
"S3Location":{
"type":"structure",
"members":{
"bucket":{"shape":"String"},
"keyPrefix":{"shape":"String"}

}
},
"ServerInternalException":{
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"members":{
"Message":{"shape":"Message"}
},
"exception":true,
"fault":true
},
"SignedToken":{
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"min":4096
},
"StatusReasonMessage":{
"type":"string",
"max":400,
"pattern":"[\\s\\S]+"
},
"String":{"type":"string"},
"StringList":{
"type":"list",
"member":{"shape":"String"}
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"Tag":{
"type":"structure",
"members":{
"Key":{"shape":"String"},
"Value":{"shape":"String"}
}
},
"TagKeyList":{
"type":"list",
"member":{"shape":"String"}
},

"TagList":{
  "type":"list",
  "member":{"shape":"Tag"}
},
"TagResourceRequest":{
  "type":"structure",
  "required":[
    "ResourceArn",
    "Tags"
  ],
  "members":{
    "ResourceArn":{"shape":"String"},
    "Tags":{"shape":"TagList"}
  }
},
"TagResourceResponse":{
   "type":"structure",
  "members":{
  }
},
"TokenData":{
  "type":"structure",
  "members":{
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    "TokenType":{"shape":"String"},
    "LicenseArn":{"shape":"String"},
    "ExpirationTime":{"shape":"ISO8601DateTime"},
    "TokenProperties":{"shape":"MaxSize3StringList"},
    "RoleArns":{"shape":"ArnList"},
    "Status":{"shape":"String"}
  }
},
"TokenList":{
  "type":"list",
  "member":{"shape":"TokenData"}
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"TokenString":{
  "type":"string",
  "max":4096,
  "pattern":"\\S+"
},
"TokenType":{
  "type":"string",
  "enum":["REFRESH_TOKEN"]
},
"UnsupportedDigitalSignatureMethodException":{
  "type":"structure",
  "members":{

"Message":{"shape":"Message"}
},
"exception":true
},
"UntagResourceRequest":{
"type":"structure",
"required":[
"ResourceArn",
"TagKeys"
],
"members":{
"ResourceArn":{"shape":"String"},
"TagKeys":{"shape":"TagKeyList"}
}
},
"UntagResourceResponse":{
"type":"structure",
"members":{
}
},
"UpdateLicenseConfigurationRequest":{
"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{
"LicenseConfigurationArn":{"shape":"String"},
"LicenseConfigurationStatus":{"shape":"LicenseConfigurationStatus"},
"LicenseRules":{"shape":"StringList"},
"LicenseCount":{"shape":"BoxLong"},
"LicenseCountHardLimit":{"shape":"BoxBoolean"},
"Name":{"shape":"String"},
"Description":{"shape":"String"},
"ProductInformationList":{"shape":"ProductInformationList"},
"DisassociateWhenNotFound":{"shape":"BoxBoolean"}
}
},
"UpdateLicenseConfigurationResponse":{
"type":"structure",
"members":{
}
},
"UpdateLicenseManagerReportGeneratorRequest":{
"type":"structure",
"required":[
"LicenseManagerReportGeneratorArn",
"ReportGeneratorName",
"Type",
"ReportContext",
"ReportFrequency",

"ClientToken"
],
"members":{
"LicenseManagerReportGeneratorArn":{"shape":"String"},
"ReportGeneratorName":{"shape":"ReportGeneratorName"},
"Type":{"shape":"ReportTypeList"},
"ReportContext":{"shape":"ReportContext"},
"ReportFrequency":{"shape":"ReportFrequency"},
"ClientToken":{"shape":"ClientRequestToken"},
"Description":{"shape":"String"}
}
},
"UpdateLicenseManagerReportGeneratorResponse":{
"type":"structure",
"members":{
}
},
"UpdateLicenseSpecificationsForResourceRequest":{
"type":"structure",
"required":["ResourceArn"],
"members":{
"ResourceArn":{"shape":"String"},
"AddLicenseSpecifications":{"shape":"LicenseSpecifications"},
"RemoveLicenseSpecifications":{"shape":"LicenseSpecifications"}
}
},
"UpdateLicenseSpecificationsForResourceResponse":{
"type":"structure",
"members":{
}
},
"UpdateServiceSettingsRequest":{
"type":"structure",
"members":{
"S3BucketArn":{"shape":"String"},
"SnsTopicArn":{"shape":"String"},
"OrganizationConfiguration":{"shape":"OrganizationConfiguration"},
"EnableCrossAccountsDiscovery":{"shape":"BoxBoolean"}
}
},
"UpdateServiceSettingsResponse":{
"type":"structure",
"members":{
}
},
"UsageOperation":{
"type":"string",
"max":50

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  },
  "ValidationException":{
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    "members":{
      "Message":{"shape":"Message"}
    },
    "exception":true
  }
 }
}
{
  "testCases": [
    {
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          "url": "https://license-manager-user-subscriptions.ap-east-1.api.aws"

}
      },
      "params": {
        "UseFIPS": false,
        "Region": "ap-east-1",
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
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        }
      },
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"params": {
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"UseDualStack": false
}
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{
"documentation": "For region ap-southeast-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
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}
},
"params": {
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"UseDualStack": true
}
},
{
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}
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}
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{
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},
{

"documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
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}
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"Region": "ap-southeast-1",
"UseDualStack": false
}
},
{
"documentation": "For region ap-southeast-2 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.ap-southeast-2.api.aws"
}
},
"params": {
"UseFIPS": true,
"Region": "ap-southeast-2",
"UseDualStack": true
}
},
{
"documentation": "For region ap-southeast-2 with FIPS
enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.ap-southeast-2.amazonaws.com"
}
},
"params": {
"UseFIPS": true,
"Region": "ap-southeast-2",
"UseDualStack": false
}
},
{
"documentation": "For region ap-southeast-2 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.ap-southeast-2.api.aws"
}
},
"params": {
"UseFIPS": false,

"Region": "ap-southeast-2",
"UseDualStack": true
}
},
{
"documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint":
{
"url": "https://license-manager-user-subscriptions.ap-southeast-2.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"Region": "ap-southeast-2",
"UseDualStack": false
}
},
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
}
},
"params": {
"UseFIPS": true,
"Region": "us-east-1",
"UseDualStack": true
}
},
{
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"expect": {
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"UseDualStack": false
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}
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"Region": "us-east-1",
"UseDualStack": true
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"expect": {
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}
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"params": {
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"Region": "us-east-1",
"UseDualStack": false
}
},
{
"documentation": "For region us-east-2 with FIPS enabled and DualStack enabled",
"expect": {
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}
},
"params": {
"UseFIPS": true,
"Region": "us-east-2",
"UseDualStack": true
}
},
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"documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-2.amazonaws.com"
}
},
"params": {
"UseFIPS": true,
"Region": "us-east-2",
"UseDualStack": false
}

```
    },
    {

      "documentation": "For region us-east-2 with FIPS disabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions.us-east-2.api.aws"
        }
      },
      "params": {
        "UseFIPS": false,
        "Region": "us-east-2",
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions.us-east-2.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "Region": "us-east-2",
        "UseDualStack": false
      }
    },
    {
      "documentation": "For custom endpoint with fips disabled and dualstack disabled",
      "expect":
{
        "endpoint": {
          "url": "https://example.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "Region": "us-east-1",
        "UseDualStack": false,
        "Endpoint": "https://example.com"
      }
    },
    {
      "documentation": "For custom endpoint with fips enabled and dualstack disabled",
      "expect": {
        "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
      },
```

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        "params": {
          "UseFIPS": true,
          "Region": "us-east-1",
          "UseDualStack": false,
          "Endpoint": "https://example.com"
        }
      },
      {
        "documentation": "For custom endpoint with fips disabled and dualstack enabled",
        "expect": {
          "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"

      },
        "params": {
          "UseFIPS": false,
          "Region": "us-east-1",
          "UseDualStack": true,
          "Endpoint": "https://example.com"
        }
      }
  ],
  "version": "1.0"
}
{
 "version":"2.0",
 "metadata":{
  "apiVersion":"2018-05-10",
  "endpointPrefix":"license-manager-linux-subscriptions",
  "jsonVersion":"1.1",
  "protocol":"rest-json",
  "serviceFullName":"AWS License Manager Linux Subscriptions",
  "serviceId":"License Manager Linux Subscriptions",
  "signatureVersion":"v4",
  "signingName":"license-manager-linux-subscriptions",
  "uid":"license-manager-linux-subscriptions-2018-05-10"
 },
 "operations":{
  "GetServiceSettings":{
   "name":"GetServiceSettings",
   "http":{
    "method":"POST",
    "requestUri":"/subscription/GetServiceSettings",
    "responseCode":200
   },
   "input":{"shape":"GetServiceSettingsRequest"},
   "output":{"shape":"GetServiceSettingsResponse"},
   "errors":[
    {"shape":"InternalServerException"},
```

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    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "idempotent":true
},
"ListLinuxSubscriptionInstances":{
  "name":"ListLinuxSubscriptionInstances",
   "http":{
    "method":"POST",
    "requestUri":"/subscription/ListLinuxSubscriptionInstances",
    "responseCode":200
  },
  "input":{"shape":"ListLinuxSubscriptionInstancesRequest"},
  "output":{"shape":"ListLinuxSubscriptionInstancesResponse"},
  "errors":[
    {"shape":"InternalServerException"},
    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "idempotent":true
},
"ListLinuxSubscriptions":{
  "name":"ListLinuxSubscriptions",
  "http":{
    "method":"POST",
    "requestUri":"/subscription/ListLinuxSubscriptions",
    "responseCode":200
  },
  "input":{"shape":"ListLinuxSubscriptionsRequest"},
  "output":{"shape":"ListLinuxSubscriptionsResponse"},
  "errors":[
    {"shape":"InternalServerException"},
    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "idempotent":true

},
"UpdateServiceSettings":{
  "name":"UpdateServiceSettings",
  "http":{
    "method":"POST",
    "requestUri":"/subscription/UpdateServiceSettings",
    "responseCode":200
  },
  "input":{"shape":"UpdateServiceSettingsRequest"},
  "output":{"shape":"UpdateServiceSettingsResponse"},
  "errors":[
```

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      {"shape":"InternalServerException"},
      {"shape":"ThrottlingException"},
      {"shape":"ValidationException"}
    ],
    "idempotent":true
  }
},
"shapes":{
  "Boolean":{
    "type":"boolean",
    "box":true
  },
  "BoxInteger":{
    "type":"integer",
    "box":true
  },
  "BoxLong":{
    "type":"long",
    "box":true
  },
  "Filter":{
    "type":"structure",
    "members":{
      "Name":{"shape":"String"},
      "Operator":{"shape":"Operator"},
      "Values":{"shape":"StringList"}
    }
  },
  "FilterList":{
    "type":"list",
    "member":{"shape":"Filter"}
  },
  "GetServiceSettingsRequest":{
     "type":"structure",
    "members":{
    }
  },
  "GetServiceSettingsResponse":{
    "type":"structure",
    "members":{
      "HomeRegions":{"shape":"StringList"},
      "LinuxSubscriptionsDiscovery":{"shape":"LinuxSubscriptionsDiscovery"},
      "LinuxSubscriptionsDiscoverySettings":{"shape":"LinuxSubscriptionsDiscoverySettings"},
      "Status":{"shape":"Status"},
      "StatusMessage":{"shape":"StringMap"}
    }
  },
  "Instance":{
```

"type":"structure",
"members":{
"AccountID":{"shape":"String"},
"AmiId":{"shape":"String"},
"InstanceID":{"shape":"String"},
"InstanceType":{"shape":"String"},
"LastUpdatedTime":{"shape":"String"},
"ProductCode":{"shape":"ProductCodeList"},
"Region":{"shape":"String"},
"Status":{"shape":"String"},
"SubscriptionName":{"shape":"String"},
"UsageOperation":{"shape":"String"}
}
},
"InstanceList":{

"type":"list",
"member":{"shape":"Instance"}
},
"InternalServerException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
},
"exception":true,
"fault":true
},
"LinuxSubscriptionsDiscovery":{
"type":"string",
"enum":[
"Enabled",
"Disabled"
]
},
"LinuxSubscriptionsDiscoverySettings":{
"type":"structure",
"required":[
"OrganizationIntegration",
"SourceRegions"
],
"members":{
"OrganizationIntegration":{"shape":"OrganizationIntegration"},
"SourceRegions":{"shape":"StringList"}
}
},
"ListLinuxSubscriptionInstancesRequest":{
"type":"structure",
"members":{

"Filters":{"shape":"FilterList"},
"MaxResults":{"shape":"BoxInteger"},
"NextToken":{"shape":"ListLinuxSubscriptionInstancesRequestNextTokenString"}
}
},
"ListLinuxSubscriptionInstancesRequestNextTokenString":{
"type":"string",
"max":16384,
"min":1
},
"ListLinuxSubscriptionInstancesResponse":{
"type":"structure",
"members":{
"Instances":{"shape":"InstanceList"},
"NextToken":{"shape":"String"}
}
},
"ListLinuxSubscriptionsRequest":{
"type":"structure",
"members":{
"Filters":{"shape":"FilterList"},
"MaxResults":{"shape":"BoxInteger"},
"NextToken":{"shape":"ListLinuxSubscriptionsRequestNextTokenString"}
}
},
"ListLinuxSubscriptionsRequestNextTokenString":{
"type":"string",
"max":16384,
"min":1
},
"ListLinuxSubscriptionsResponse":{
"type":"structure",
"members":{
"NextToken":{"shape":"String"},
"Subscriptions":{"shape":"SubscriptionList"}
}
},
"Operator":{
"type":"string",
"enum":[
"Equal",
"NotEqual",
"Contains"
],
"max":20,
"min":1
},
"OrganizationIntegration":{

"type":"string",
"enum":[
"Enabled",
"Disabled"
]
},
"ProductCodeList":{
"type":"list",
"member":{"shape":"String"}
},
"Status":{
"type":"string",
"enum":[
"InProgress",
"Completed",
"Successful",
"Failed"
]
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"String":{"type":"string"},
"StringList":{
"type":"list",
"member":{"shape":"StringListMemberString"},
"max":100,
"min":1
},
"StringListMemberString":{
"type":"string",
"max":100,
"min":1
},
"StringMap":{
"type":"map",
"key":{"shape":"String"},
"value":{"shape":"String"}
},
"Subscription":{
"type":"structure",
"members":{
"InstanceCount":{"shape":"BoxLong"},
"Name":{"shape":"String"},
"Type":{"shape":"String"}
}
},
"SubscriptionList":{
"type":"list",
"member":{"shape":"Subscription"}
},

"ThrottlingException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
},
"exception":true
},
"UpdateServiceSettingsRequest":{
"type":"structure",
"required":[
"LinuxSubscriptionsDiscovery",
"LinuxSubscriptionsDiscoverySettings"
],
"members":{
"AllowUpdate":{"shape":"Boolean"},
"LinuxSubscriptionsDiscovery":{"shape":"LinuxSubscriptionsDiscovery"},
"LinuxSubscriptionsDiscoverySettings":{"shape":"LinuxSubscriptionsDiscoverySettings"}
}
},
"UpdateServiceSettingsResponse":{
"type":"structure",
"members":{
"HomeRegions":{"shape":"StringList"},
"LinuxSubscriptionsDiscovery":{"shape":"LinuxSubscriptionsDiscovery"},
"LinuxSubscriptionsDiscoverySettings":{"shape":"LinuxSubscriptionsDiscoverySettings"},
"Status":{"shape":"Status"},
"StatusMessage":{"shape":"StringMap"}
}
},
"ValidationException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
},
"exception":true
}
}
}
{
"version": "2.0",
"service": " License Manager makes it easier to manage licenses from software vendors across multiple Amazon Web Services accounts and on-premises servers. ",
"operations": {
"AcceptGrant": " Accepts the specified grant. ",
"CheckInLicense": " Checks in the specified license. Check in a license when it is no longer in use. ",
"CheckoutBorrowLicense": " Checks out the specified license for offline use. ",
"CheckoutLicense": " Checks out the specified license. <note> If the account that created the license is the same that is performing the check out, you must specify the account as the beneficiary. </note>",

"CreateGrant": " Creates a grant for the specified license. A grant shares the use of license entitlements with a specific Amazon Web Services account, an organization, or an organizational unit (OU). For more information, see Granted licenses in License Manager in the License Manager User Guide. ",
"CreateGrantVersion": " Creates a new version of the specified grant. For more information, see Granted licenses in License Manager in the License Manager User Guide. ",
"CreateLicense": " Creates a license. ",
"CreateLicenseConfiguration": " Creates a license configuration. A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a license must be associated with a host), and the number of licenses purchased and used. ",
"CreateLicenseConversionTaskForResource": " Creates a new license conversion task. ",
"CreateLicenseManagerReportGenerator": " Creates a report generator. ",
"CreateLicenseVersion": " Creates a new version of the specified license. ",
"CreateToken": " Creates a long-lived token. A refresh token is a JWT token used to get an access token. With an access token, you can call AssumeRoleWithWebIdentity to get role credentials that you can use to call License Manager to manage the specified license. ",
"DeleteGrant": " Deletes the specified grant. ",
"DeleteLicense": " Deletes the specified license. ",
"DeleteLicenseConfiguration": " Deletes the specified license configuration. You cannot delete a license configuration that is in use. ",
"DeleteLicenseManagerReportGenerator": " Deletes the specified report generator. This action deletes the report generator, which stops it from generating future reports. The action cannot be reversed. It has no effect on the previous reports from this generator. ",
"DeleteToken": " Deletes the specified token. Must be called in the license home Region. ",
"ExtendLicenseConsumption": " Extends the expiration date for license consumption. ",
"GetAccessToken": " Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access tokens are valid for one hour. ",
"GetGrant": " Gets detailed information about the specified grant. ",
"GetLicense": " Gets detailed information about the specified license. ",
"GetLicenseConfiguration": " Gets detailed information about the specified license configuration. ",
"GetLicenseConversionTask": " Gets information about the specified license type conversion task. ",
"GetLicenseManagerReportGenerator": " Gets information about the specified report generator. ",
"GetLicenseUsage": " Gets detailed information about the usage of the specified license. ",
"GetServiceSettings": " Gets the License Manager settings for the current Region. ",
"ListAssociationsForLicenseConfiguration": " Lists the resource associations for the specified license configuration. Resource associations need not consume licenses from a license configuration. For example, an AMI or a stopped instance might not consume a license (depending on the license rules). ",
"ListDistributedGrants": " Lists the grants distributed for the specified license. ",
"ListFailuresForLicenseConfigurationOperations": " Lists the license configuration operations that failed. ",
"ListLicenseConfigurations": " Lists the license configurations for your account. ",
"ListLicenseConversionTasks": " Lists the license type conversion tasks for your account. ",
"ListLicenseManagerReportGenerators": " Lists the report generators for your account. ",

"ListLicenseSpecificationsForResource": " Describes the license configurations for the specified resource. ",
"ListLicenseVersions": " Lists all versions of the specified license. ",
"ListLicenses": " Lists the licenses for your account. ",
"ListReceivedGrants": " Lists grants that are received. Received grants are grants created while specifying the recipient as this Amazon Web Services account, your organization, or an organizational unit (OU) to which this member account belongs. ",
"ListReceivedGrantsForOrganization": " Lists the grants received for all accounts in the organization. ",
"ListReceivedLicenses": " Lists received licenses. ",
"ListReceivedLicensesForOrganization": " Lists the licenses received for all accounts in the organization. ",
"ListResourceInventory": " Lists resources managed using Systems Manager inventory. ",
"ListTagsForResource": " Lists the tags for the specified license configuration. ",
"ListTokens": " Lists your tokens. ",
"ListUsageForLicenseConfiguration": " Lists all license usage records for a license configuration, displaying license consumption details by resource at a selected point in time. Use this action to audit the current license consumption for any license inventory and configuration. ",
"RejectGrant": " Rejects the specified grant. ",
"TagResource": " Adds the specified tags to the specified license configuration. ",
"UntagResource": " Removes the specified tags from the specified license configuration. ",
"UpdateLicenseConfiguration": " Modifies the attributes of an existing license configuration. ",
"UpdateLicenseManagerReportGenerator": " Updates a report generator. After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated. ",
"UpdateLicenseSpecificationsForResource": " Adds or removes the specified license configurations for the specified Amazon Web Services resource. You can update the license specifications of AMIs, instances, and hosts. You cannot update the license specifications for launch templates and CloudFormation templates, as they send license configurations to the operation that creates the resource. ",
"UpdateServiceSettings": " Updates License Manager settings for the current Region. "
},
"shapes": {
"AcceptGrantRequest": {
"base": null,
"refs": {
}
},
"AcceptGrantResponse": {
"base": null,
"refs": {
}
},
"AccessDeniedException": {
"base": " Access to resource denied. ",
"refs": {
}
},
"ActivationOverrideBehavior": {

"base": null,
"refs": {
"Options$ActivationOverrideBehavior": " An activation option for your grant that determines the behavior of activating a grant. Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the <code>Status</code> parameter.   As a license administrator, you can optionally specify an <code>ActivationOverrideBehavior</code> when activating a grant.   As a grantor, you can optionally specify an <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee account in your organization.   As a grantee, if the grantor creating the distributed grant doesnt specify an <code>ActivationOverrideBehavior</code>, you can optionally specify one when you are activating the grant.   <dl> <dt>DISTRIBUTED_GRANTS_ONLY</dt> <dd> Use this value to activate a grant without replacing any member accounts active grants for the same product. </dd> <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt> <dd> Use this value to activate a grant and disable other active grants in any member accounts for the same product. This action will also replace their previously activated grants with this activated grant. </dd> </dl>"
}
},
"AllowedOperation": {
"base": null,
"refs": {
"AllowedOperationList$member": null
}
},
"AllowedOperationList": {
"base": null,
"refs": {
"CreateGrantRequest$AllowedOperations": " Allowed operations for the grant. ",
"CreateGrantVersionRequest$AllowedOperations": " Allowed operations for the grant. ",
"Grant$GrantedOperations": " Granted operations. ",
"ReceivedMetadata$AllowedOperations": " Allowed operations. "
}
},
"Arn": {
"base": null,
"refs": {
"AcceptGrantRequest$GrantArn": " Amazon Resource Name (ARN) of the grant. ",
"AcceptGrantResponse$GrantArn": " Grant ARN. ",
"ArnList$member": null,
"CheckoutBorrowLicenseRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. The license must use the borrow consumption configuration. ",
"CheckoutBorrowLicenseResponse$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"CreateGrantRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"CreateGrantResponse$GrantArn": " Grant ARN. ",
"CreateGrantVersionRequest$GrantArn": " Amazon Resource Name (ARN) of the grant. ",
"CreateGrantVersionResponse$GrantArn": " Grant ARN. ",
"CreateLicenseConversionTaskForResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of

the resource you are converting the license type for. ",
"CreateLicenseResponse$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"CreateLicenseVersionRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"CreateLicenseVersionResponse$LicenseArn": " License ARN. ",
"CreateTokenRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the JWT token. ",
"DeleteGrantRequest$GrantArn":
" Amazon Resource Name (ARN) of the grant. ",
"DeleteGrantResponse$GrantArn": " Grant ARN. ",
"DeleteLicenseRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"GetGrantRequest$GrantArn": " Amazon Resource Name (ARN) of the grant. ",
"GetLicenseRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"GetLicenseUsageRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"Grant$GrantArn": " Amazon Resource Name (ARN) of the grant. ",
"Grant$ParentArn": " Parent ARN. ",
"Grant$LicenseArn": " License ARN. ",
"Grant$GranteePrincipalArn": " The grantee principal ARN. ",
"GrantedLicense$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"License$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"ListLicenseVersionsRequest$LicenseArn": " Amazon Resource Name (ARN) of
the license. ",
"ListReceivedGrantsForOrganizationRequest$LicenseArn": " The Amazon Resource Name (ARN) of the received license. ",
"PrincipalArnList$member": null,
"RejectGrantRequest$GrantArn": " Amazon Resource Name (ARN) of the grant. ",
"RejectGrantResponse$GrantArn": " Grant ARN. "
}
},
"ArnList": {
"base": null,
"refs": {
"CreateTokenRequest$RoleArns": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. License Manager does not check whether the roles are in use. ",
"ListDistributedGrantsRequest$GrantArns": " Amazon Resource Names (ARNs) of the grants. ",
"ListLicensesRequest$LicenseArns": " Amazon Resource Names (ARNs) of the licenses. ",
"ListReceivedGrantsRequest$GrantArns": " Amazon Resource Names (ARNs) of the grants. ",
"ListReceivedLicensesRequest$LicenseArns": " Amazon Resource Names (ARNs) of the licenses. ",

"ReportContext$licenseConfigurationArns": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"TokenData$RoleArns": " Amazon Resource Names (ARN) of the roles included in the token. "
}
},
"AuthorizationException": {
"base": " The Amazon Web Services user account does not have permission to perform the action. Check the IAM policy associated with this account. ",
"refs": {
}

},
"AutomatedDiscoveryInformation": {
"base": " Describes automated discovery. ",
"refs": {
"GetLicenseConfigurationResponse$AutomatedDiscoveryInformation": " Automated discovery information. ",
"LicenseConfiguration$AutomatedDiscoveryInformation": " Automated discovery information. "
}
},
"Boolean": {
"base": null,
"refs": {
"ExtendLicenseConsumptionRequest$DryRun": " Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions. ",
"OrganizationConfiguration$EnableIntegration": " Enables Organizations integration. "
}
},
"BorrowConfiguration": {
"base": " Details about a borrow configuration. ",
"refs": {
"ConsumptionConfiguration$BorrowConfiguration": " Details about a borrow configuration. "
}
},
"BoxBoolean": {
"base": null,
"refs": {
"BorrowConfiguration$AllowEarlyCheckIn": " Indicates whether early check-ins are allowed. ",
"CreateLicenseConfigurationRequest$LicenseCountHardLimit": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit blocks the launch of new instances. ",
"CreateLicenseConfigurationRequest$DisassociateWhenNotFound": " When true, disassociates a resource when software is uninstalled. ",
"Entitlement$Overage": " Indicates
whether overages are allowed. ",
"Entitlement$AllowCheckIn": " Indicates whether check-ins are allowed. ",
"GetLicenseConfigurationResponse$LicenseCountHardLimit": " Sets the number of available licenses as a hard limit. ",
"GetLicenseConfigurationResponse$DisassociateWhenNotFound": " When true, disassociates a resource when software is uninstalled. ",
"GetServiceSettingsResponse$EnableCrossAccountsDiscovery": " Indicates whether cross-account discovery is enabled. ",
"LicenseConfiguration$LicenseCountHardLimit": " Number of available licenses as a hard limit. ",
"LicenseConfiguration$DisassociateWhenNotFound": " When true, disassociates a resource when software is uninstalled. ",
"UpdateLicenseConfigurationRequest$LicenseCountHardLimit": " New hard limit of the number of available licenses. ",
"UpdateLicenseConfigurationRequest$DisassociateWhenNotFound": " When true, disassociates

a resource when software is uninstalled. ",
"UpdateServiceSettingsRequest$EnableCrossAccountsDiscovery": " Activates cross-account discovery. "
}
},
"BoxInteger": {
"base": null,
"refs": {
"BorrowConfiguration$MaxTimeToLiveInMinutes": " Maximum time for the borrow configuration, in minutes. ",
"ListAssociationsForLicenseConfigurationRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListFailuresForLicenseConfigurationOperationsRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListLicenseConfigurationsRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListLicenseConversionTasksRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListLicenseSpecificationsForResourceRequest$MaxResults": " Maximum number of results to return in a single call. ",

"ListResourceInventoryRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListUsageForLicenseConfigurationRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ProvisionalConfiguration$MaxTimeToLiveInMinutes": " Maximum time for the provisional configuration, in minutes. "
}
},
"BoxLong": {
"base": null,
"refs": {
"ConsumedLicenseSummary$ConsumedLicenses": " Number of licenses consumed by the resource. ",
"CreateLicenseConfigurationRequest$LicenseCount": " Number of licenses managed by the license configuration. ",
"GetLicenseConfigurationResponse$LicenseCount": " Number of available licenses. ",
"GetLicenseConfigurationResponse$ConsumedLicenses": " Number of licenses assigned to resources. ",
"LicenseConfiguration$LicenseCount": " Number of licenses managed by the license configuration. ",
"LicenseConfiguration$ConsumedLicenses": " Number of licenses consumed. ",
"LicenseConfigurationUsage$ConsumedLicenses": " Number of licenses consumed by the resource. ",
"ManagedResourceSummary$AssociationCount": " Number of resources associated with licenses. ",
"UpdateLicenseConfigurationRequest$LicenseCount": " New number of licenses managed by the license configuration. "
}
},
"CheckInLicenseRequest": {
"base": null,
"refs": {

```
    }
  },
  "CheckInLicenseResponse": {
    "base": null,
    "refs": {
    }
  },
  "CheckoutBorrowLicenseRequest": {
    "base": null,
    "refs": {
    }
  },
  "CheckoutBorrowLicenseResponse": {
    "base": null,
    "refs": {
    }
  },
  "CheckoutLicenseRequest": {
    "base": null,
    "refs": {
    }
  },
  "CheckoutLicenseResponse": {
    "base": null,
    "refs": {
    }
  },
  "CheckoutType": {
    "base": null,
    "refs": {
      "CheckoutLicenseRequest$CheckoutType": "<p>Checkout type.</p>",
      "CheckoutLicenseResponse$CheckoutType": "<p>Checkout type.</p>"
    }
  },
  "ClientRequestToken": {
    "base": null,
    "refs": {
      "CreateLicenseManagerReportGeneratorRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
      "UpdateLicenseManagerReportGeneratorRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>"
    }
  },
  "ClientToken": {
    "base": null,
    "refs": {
      "CheckoutBorrowLicenseRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
```

"CheckoutLicenseRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"CreateGrantRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"CreateGrantVersionRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"CreateLicenseRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"CreateLicenseVersionRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"CreateTokenRequest$ClientToken": " Idempotency token, valid for 10 minutes. "
}
},
"ConflictException": {
"base": " There was a conflict processing the request. Try your request again. ",
"refs": {
}
},
"ConsumedLicenseSummary": {
"base": " Details about license consumption. ",
"refs": {
"ConsumedLicenseSummaryList$member": null
}
},
"ConsumedLicenseSummaryList": {
"base": null,
"refs": {
"GetLicenseConfigurationResponse$ConsumedLicenseSummaryList": " Summaries of the licenses consumed by resources. ",
"LicenseConfiguration$ConsumedLicenseSummaryList": " Summaries for licenses consumed by various resources. "
}
},
"ConsumptionConfiguration": {
"base": " Details about a consumption configuration. ",
"refs": {
"CreateLicenseRequest$ConsumptionConfiguration": " Configuration for consumption of the license. Choose a provisional configuration for workloads running with continuous connectivity. Choose a borrow configuration for workloads with offline usage. ",
"CreateLicenseVersionRequest$ConsumptionConfiguration": " Configuration for consumption of the license. Choose a provisional configuration for workloads running with continuous connectivity. Choose a borrow configuration for workloads with offline usage. ",
"GrantedLicense$ConsumptionConfiguration": " Configuration for consumption of the license. ",
"License$ConsumptionConfiguration": " Configuration for consumption of the license. "
}
},
"CreateGrantRequest": {

"base": null,
"refs": {
}
},
"CreateGrantResponse": {
"base": null,
"refs": {
}
},
"CreateGrantVersionRequest": {
"base": null,
"refs": {
}
},
"CreateGrantVersionResponse": {
"base": null,
"refs": {
}
},
"CreateLicenseConfigurationRequest": {
"base": null,
"refs": {
}
},
"CreateLicenseConfigurationResponse": {
"base": null,
"refs": {
}
},
"CreateLicenseConversionTaskForResourceRequest": {
"base": null,
"refs": {
}
},
"CreateLicenseConversionTaskForResourceResponse": {
"base": null,
"refs": {
}
},
"CreateLicenseManagerReportGeneratorRequest": {
"base": null,
"refs": {

}
},
"CreateLicenseManagerReportGeneratorResponse": {
"base": null,
"refs": {

```
    }
  },
  "CreateLicenseRequest": {
    "base": null,
    "refs": {
    }
  },
  "CreateLicenseResponse": {
    "base": null,
    "refs": {
    }
  },
  "CreateLicenseVersionRequest": {
    "base": null,
    "refs": {
    }
  },
  "CreateLicenseVersionResponse": {
    "base": null,
    "refs": {
    }
  },
  "CreateTokenRequest": {
    "base": null,
    "refs": {
    }
  },
  "CreateTokenResponse": {
    "base": null,
    "refs": {
    }
  },
  "DateTime": {
    "base": null,
    "refs": {
      "AutomatedDiscoveryInformation$LastRunTime": "<p>Time that automated discovery last ran.</p>",
      "GetLicenseConversionTaskResponse$StartTime": "<p>Time at which the license type conversion task was started .</p>",
      "GetLicenseConversionTaskResponse$LicenseConversionTime": "<p>Amount of time to complete the license type conversion.</p>",
      "GetLicenseConversionTaskResponse$EndTime": "<p>Time at which the license type conversion task was completed.</p>",
      "LicenseConfigurationAssociation$AssociationTime": "<p>Time when the license configuration was associated with the resource.</p>",
      "LicenseConfigurationUsage$AssociationTime": "<p>Time when the license configuration was initially associated with the resource.</p>",
      "LicenseConversionTask$StartTime": "<p>The time the conversion task was started at.</p>",
      "LicenseConversionTask$LicenseConversionTime": "<p>The time the usage operation value of the resource
```

was changed. ",
"LicenseConversionTask$EndTime": " The time the conversion task was completed. ",
"LicenseOperationFailure$FailureTime": " Failure time. "
}
},
"DatetimeRange": {
"base": " Describes a time range, in ISO8601-UTC format. ",
"refs": {
"CreateLicenseRequest$Validity": " Date
and time range during which the license is valid, in ISO8601-UTC format. ",
"CreateLicenseVersionRequest$Validity": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"GrantedLicense$Validity": " Date and time range during which the granted license is valid, in ISO8601-UTC format. ",
"License$Validity": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"DeleteGrantRequest": {
"base": null,
"refs": {
}
},
"DeleteGrantResponse": {
"base": null,
"refs": {
}
},
"DeleteLicenseConfigurationRequest": {
"base": null,
"refs": {
}
},
"DeleteLicenseConfigurationResponse": {
"base": null,
"refs": {
}
},
"DeleteLicenseManagerReportGeneratorRequest": {
"base": null,
"refs": {
}
},
"DeleteLicenseManagerReportGeneratorResponse": {
"base": null,
"refs": {
}
},
"DeleteLicenseRequest": {

"base": null,
"refs": {
}
},
"DeleteLicenseResponse": {
"base": null,
"refs": {
}
},
"DeleteTokenRequest": {
"base": null,
"refs": {
}
},
"DeleteTokenResponse": {
"base": null,
"refs": {
}
},
"DigitalSignatureMethod": {
"base": null,
"refs": {
"CheckoutBorrowLicenseRequest$DigitalSignatureMethod": " Digital signature method. The possible value is JSON Web Signature (JWS) algorithm PS384. For more information, see RFC 7518 Digital Signature with RSASSA-PSS. "
}
},
"Entitlement": {
"base": " Describes a resource entitled for use with a license. ",
"refs": {
"EntitlementList$member": null
}
},
"EntitlementData": {
"base": " Data associated with an entitlement resource. ",

"refs": {
"EntitlementDataList$member": null
}
},
"EntitlementDataList": {
"base": null,
"refs": {
"CheckoutBorrowLicenseRequest$Entitlements": " License entitlements. Partial checkouts are not supported. ",
"CheckoutBorrowLicenseResponse$EntitlementsAllowed": " Allowed license entitlements. ",
"CheckoutLicenseRequest$Entitlements": " License entitlements. ",
"CheckoutLicenseResponse$EntitlementsAllowed": " Allowed license entitlements. "

```
    }
  },
  "EntitlementDataUnit": {
    "base": null,
    "refs": {
      "EntitlementData$Unit": "<p>Entitlement data unit.</p>",
      "EntitlementUsage$Unit": "<p>Entitlement usage unit.</p>"
    }
  },
  "EntitlementList": {
    "base": null,
    "refs": {
      "CreateLicenseRequest$Entitlements": "<p>License entitlements.</p>",
      "CreateLicenseVersionRequest$Entitlements": "<p>License entitlements.</p>",
      "GrantedLicense$Entitlements":
"<p>License entitlements.</p>",
      "License$Entitlements": "<p>License entitlements.</p>"
    }
  },
  "EntitlementNotAllowedException": {
    "base": "<p>The entitlement is not allowed.</p>",
    "refs": {
    }
  },
  "EntitlementUnit": {
    "base": null,
    "refs": {
      "Entitlement$Unit": "<p>Entitlement unit.</p>"
    }
  },
  "EntitlementUsage": {
    "base": "<p>Usage associated with an entitlement resource.</p>",
    "refs": {
      "EntitlementUsageList$member": null
    }
  },
  "EntitlementUsageList": {
    "base": null,
    "refs": {
      "LicenseUsage$EntitlementUsages": "<p>License entitlement usages.</p>"
    }
  },
  "ExtendLicenseConsumptionRequest": {
    "base": null,
    "refs": {
    }
  },
  "ExtendLicenseConsumptionResponse": {
```

"base": null,
"refs": {
}
},
"FailedDependencyException": {
"base": " A dependency required to run the API is missing. ",
"refs": {
}
},
"Filter": {
"base": " A filter name and value pair that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs. ",
"refs": {
"FilterList$member": null,
"Filters$member": null
}
},
"FilterLimitExceededException": {
"base": " The request uses too many filters or too many filter values. ",
"refs": {
}
},
"FilterList": {
"base": null,
"refs": {
"ListDistributedGrantsRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>LicenseArn</code>   <code>GrantStatus</code>   <code>GranteePrincipalARN</code>   <code>ProductSKU</code>   <code>LicenseIssuerName</code> ",
"ListLicenseManagerReportGeneratorsRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>LicenseConfigurationArn</code> ",
"ListLicensesRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>Beneficiary</code>   <code>ProductSKU</code>   <code>Fingerprint</code>   <code>Status</code> ",
"ListReceivedGrantsForOrganizationRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>ParentArn</code>   <code>GranteePrincipalArn</code> ",
"ListReceivedGrantsRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>ProductSKU</code>   <code>LicenseIssuerName</code>   <code>LicenseArn</code>   <code>GrantStatus</code>   <code>GranterAccountId</code> ",
"ListReceivedLicensesForOrganizationRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>Beneficiary</code>   <code>ProductSKU</code> ",
"ListReceivedLicensesRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>ProductSKU</code>   <code>Status</code>   <code>Fingerprint</code>   <code>IssuerName</code>

<code>Beneficiary</code> ",
"ListTokensRequest$Filters": " Filters to scope the results. The following filter is supported: <ul> <code>LicenseArns</code> "
}
},
"FilterName": {
"base": null,
"refs": {
"Filter$Name": " Name of the filter. Filter names are case-sensitive. "
}
},
"FilterValue": {
"base": null,
"refs": {
"FilterValues$member": null
}
},
"FilterValues": {
"base": null,
"refs": {
"Filter$Values": " The value of the filter, which is case-sensitive. You can only specify one value for the filter. "
}
},
"Filters": {
"base": null,
"refs": {
"ListLicenseConfigurationsRequest$Filters": " Filters to scope the results. The following filters and logical operators are supported: <ul> <code>licenseCountingType</code> - The dimension for which licenses are counted. Possible values are <code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement is used. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.
  <code>usagelimitExceeded</code> - A Boolean value that indicates whether the available licenses have been exceeded. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. ",
"ListLicenseConversionTasksRequest$Filters": " Filters to scope the results. Valid filters are <code>ResourceArns</code> and <code>Status</code>. ",
"ListUsageForLicenseConfigurationRequest$Filters": " Filters to scope the results. The following filters and logical operators are supported: <ul> <code>resourceArn</code> - The ARN of the license configuration resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>resourceAccount</code>
- The ID of the account that owns the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. "
}

},
"GetAccessTokenRequest": {
"base": null,
"refs": {
}
},
"GetAccessTokenResponse": {
"base": null,
"refs": {
}
},
"GetGrantRequest": {
"base": null,
"refs": {
}
},
"GetGrantResponse": {
"base": null,
"refs": {
}
},
"GetLicenseConfigurationRequest": {
"base": null,
"refs": {
}
},
"GetLicenseConfigurationResponse": {
"base": null,
"refs": {
}
},
"GetLicenseConversionTaskRequest": {
"base": null,
"refs": {
}
},
"GetLicenseConversionTaskResponse": {
"base": null,
"refs": {
}
},
"GetLicenseManagerReportGeneratorRequest": {
"base": null,
"refs": {
}
},
"GetLicenseManagerReportGeneratorResponse": {
"base":

null,
"refs": {
}
},
"GetLicenseRequest": {
"base": null,
"refs": {
}
},
"GetLicenseResponse": {
"base": null,
"refs": {
}
},
"GetLicenseUsageRequest": {
"base": null,
"refs": {
}
},
"GetLicenseUsageResponse": {
"base": null,
"refs": {
}
},
"GetServiceSettingsRequest": {
"base": null,
"refs": {
}
},
"GetServiceSettingsResponse": {
"base": null,
"refs": {
}
},
"Grant": {
"base": " Describes a grant. ",
"refs": {
"GetGrantResponse$Grant": " Grant details. ",
"GrantList$member": null
}
},
"GrantList": {
"base": null,
"refs": {
"ListDistributedGrantsResponse$Grants": " Distributed grant details. ",
"ListReceivedGrantsForOrganizationResponse$Grants": " Lists the grants the organization has received. ",
"ListReceivedGrantsResponse$Grants":

" Received grant details. "
    }
  },
  "GrantStatus": {
    "base": null,
    "refs": {
      "AcceptGrantResponse$Status": " Grant status. ",
      "CreateGrantResponse$Status": " Grant status. ",
      "CreateGrantVersionRequest$Status": " Grant status. ",
      "CreateGrantVersionResponse$Status": " Grant status. ",
      "DeleteGrantResponse$Status": " Grant status. ",
      "Grant$GrantStatus": " Grant status. ",
      "RejectGrantResponse$Status": " Grant status. "
    }
  },
  "GrantedLicense": {
    "base": " Describes a license that is granted to a grantee. ",
    "refs": {
      "GrantedLicenseList$member": null
    }
  },
  "GrantedLicenseList": {
    "base": null,
    "refs": {
      "ListReceivedLicensesForOrganizationResponse$Licenses": " Lists the licenses the organization has received. ",
      "ListReceivedLicensesResponse$Licenses": " Received license details. "
    }
  },
  "ISO8601DateTime": {
    "base": null,
    "refs": {
      "CheckoutBorrowLicenseResponse$IssuedAt": " Date and time at which the license checkout is issued. ",
      "CheckoutBorrowLicenseResponse$Expiration": " Date and time at which the license checkout expires. ",
      "CheckoutLicenseResponse$IssuedAt": " Date and time at which the license checkout is issued. ",
      "CheckoutLicenseResponse$Expiration": " Date and time at which the license checkout expires. ",
      "DatetimeRange$Begin": " Start of the time range. ",
      "DatetimeRange$End": " End of the time range. ",
      "DeleteLicenseResponse$DeletionDate": " Date when the license is deleted. ",
      "ExtendLicenseConsumptionResponse$Expiration": " Date and time at which the license consumption expires. ",
      "GrantedLicense$CreateTime": " Creation time of the granted license. ",
      "License$CreateTime": " License creation time. ",
      "TokenData$ExpirationTime": " Token expiration time, in ISO8601-UTC format. "

}
},
"Integer": {
"base": null,
"refs": {
"CreateTokenRequest$ExpirationInDays": " Token expiration, in days, counted from token creation. The default is 365 days. ",
"ReportFrequency$value": " Number of times within the frequency period that a report is generated. The only supported value is <code>1</code>. "
}
},
"InvalidParameterValueException": {
"base": " One or more parameter values are not valid. ",
"refs": {
}
},
"InvalidResourceStateException": {
"base": " License Manager cannot allocate a license to a resource because of its state. For example, you cannot allocate a license to an instance in the process of shutting down. ",
"refs": {
}
},
"InventoryFilter": {
"base": " An inventory filter. ",
"refs": {

"InventoryFilterList$member": null
}
},
"InventoryFilterCondition": {
"base": null,
"refs": {
"InventoryFilter$Condition": " Condition of the filter. "
}
},
"InventoryFilterList": {
"base": null,
"refs": {
"ListResourceInventoryRequest$Filters": " Filters to scope the results. The following filters and logical operators are supported: <ul> <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>application_name</code> - The name of the application. Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.   <code>license_included</code> - The type of license included. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. Possible values are <code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-web</code>
| <code>windows-server-datacenter</code>.   <code>platform</code> - The platform of the resource. Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.

<code>resource_id</code> - The ID of the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>tag:<key></code> - The key/value combination of a tag assigned to the resource. Logical operators are <code>EQUALS</code> (single account) or <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account). "
    }
  },
  "Issuer": {
    "base": " Details about the issuer of a license. ",
    "refs": {
      "CreateLicenseRequest$Issuer": " License issuer. ",
      "CreateLicenseVersionRequest$Issuer": " License issuer. "
    }
  },
  "IssuerDetails": {
    "base": " Details associated with the issuer of a license. ",
    "refs": {
      "GrantedLicense$Issuer": " Granted
license issuer. ",
      "License$Issuer": " License issuer. "
    }
  },
  "License": {
    "base": " Software license that is managed in License Manager. ",
    "refs": {
      "GetLicenseResponse$License": " License details. ",
      "LicenseList$member": null
    }
  },
  "LicenseConfiguration": {
    "base": " A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM must be associated with a host), and the number of licenses purchased and used. ",
    "refs": {
      "LicenseConfigurations$member": null
    }
  },
  "LicenseConfigurationAssociation": {
    "base": " Describes an association with a license configuration. ",
    "refs": {
      "LicenseConfigurationAssociations$member": null
    }
  },
  "LicenseConfigurationAssociations": {
    "base": null,
    "refs": {
      "ListAssociationsForLicenseConfigurationResponse$LicenseConfigurationAssociations": " Information about the associations for the license configuration. "

```
    }
  },
  "LicenseConfigurationStatus": {
    "base": null,
    "refs": {
      "UpdateLicenseConfigurationRequest$LicenseConfigurationStatus": "<p>New status of the license
configuration.</p>"
    }
  },
  "LicenseConfigurationUsage": {
    "base": "<p>Details about the usage of a resource associated with a license configuration.</p>",
    "refs": {
      "LicenseConfigurationUsageList$member": null
    }
  },
  "LicenseConfigurationUsageList": {
    "base": null,
    "refs": {
      "ListUsageForLicenseConfigurationResponse$LicenseConfigurationUsageList": "<p>Information about the
license configurations.</p>"
    }

  },
  "LicenseConfigurations": {
    "base": null,
    "refs": {
      "ListLicenseConfigurationsResponse$LicenseConfigurations": "<p>Information about the license
configurations.</p>"
    }
  },
  "LicenseConversionContext": {
    "base": "<p>Information about a license type conversion task.</p>",
    "refs": {
      "CreateLicenseConversionTaskForResourceRequest$SourceLicenseContext": "<p>Information that identifies
the license type you are converting from. For the structure of the source license, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/conversion-procedures.html#conversion-
cli\">Convert a license type using the CLI </a> in the <i>License Manager User Guide</i>.</p>",
      "CreateLicenseConversionTaskForResourceRequest$DestinationLicenseContext": "<p>Information that
identifies the license type you are converting to. For the structure of the destination license, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/conversion-procedures.html#conversion-
cli\">Convert
 a license type using the CLI </a> in the <i>License Manager User Guide</i>.</p>",
      "GetLicenseConversionTaskResponse$SourceLicenseContext": "<p>Information about the license type
converted from.</p>",
      "GetLicenseConversionTaskResponse$DestinationLicenseContext": "<p>Information about the license type
converted to.</p>",
      "LicenseConversionTask$SourceLicenseContext": "<p>Information about the license type this conversion task
converted from.</p>",
```

"LicenseConversionTask$DestinationLicenseContext": " Information about the license type this conversion task converted to. "
}
},
"LicenseConversionTask": {
"base": " Information about a license type conversion task. ",
"refs": {
"LicenseConversionTasks$member": null
}
},
"LicenseConversionTaskId": {
"base": null,
"refs": {
"CreateLicenseConversionTaskForResourceResponse$LicenseConversionTaskId": " The ID of the created license type conversion task. ",
"GetLicenseConversionTaskRequest$LicenseConversionTaskId": " ID of the license type conversion task to retrieve information on. ",
"GetLicenseConversionTaskResponse$LicenseConversionTaskId": " ID of the license type conversion task. ",
"LicenseConversionTask$LicenseConversionTaskId": " The ID of the license type conversion task. "
}
},
"LicenseConversionTaskStatus": {
"base": null,
"refs": {
"GetLicenseConversionTaskResponse$Status": " Status of the license type conversion task. ",
"LicenseConversionTask$Status": " The status of the conversion task. "
}
},
"LicenseConversionTasks": {
"base": null,
"refs": {
"ListLicenseConversionTasksResponse$LicenseConversionTasks": " Information about the license configuration tasks for your account. "
}
},
"LicenseCountingType":
{
"base": null,
"refs": {
"CreateLicenseConfigurationRequest$LicenseCountingType": " Dimension used to track the license inventory. ",
"GetLicenseConfigurationResponse$LicenseCountingType": " Dimension for which the licenses are counted. ",
"LicenseConfiguration$LicenseCountingType": " Dimension to use to track the license inventory. "
}
},
"LicenseDeletionStatus": {

"base": null,
"refs": {
"DeleteLicenseResponse$Status": " License status. "
}
},
"LicenseList": {
"base": null,
"refs": {
"ListLicenseVersionsResponse$Licenses": " License details. ",
"ListLicensesResponse$Licenses": " License details. "
}
},
"LicenseOperationFailure": {
"base": " Describes the failure of a license operation. ",
"refs": {
"LicenseOperationFailureList$member": null
}
},
"LicenseOperationFailureList": {
"base":
null,
"refs": {
"ListFailuresForLicenseConfigurationOperationsResponse$LicenseOperationFailureList": " License configuration operations that failed. "
}
},
"LicenseSpecification": {
"base": " Details for associating a license configuration with a resource. ",
"refs": {
"LicenseSpecifications$member": null
}
},
"LicenseSpecifications": {
"base": null,
"refs": {
"ListLicenseSpecificationsForResourceResponse$LicenseSpecifications": " License configurations associated with a resource. ",
"UpdateLicenseSpecificationsForResourceRequest$AddLicenseSpecifications": " ARNs of the license configurations to add. ",
"UpdateLicenseSpecificationsForResourceRequest$RemoveLicenseSpecifications": " ARNs of the license configurations to remove. "
}
},
"LicenseStatus": {
"base": null,
"refs": {
"CreateLicenseResponse$Status": " License status. ",

"CreateLicenseVersionRequest$Status": " License status. ",
"CreateLicenseVersionResponse$Status": " License status. ",
"GrantedLicense$Status": " Granted license status. ",
"License$Status": " License status. "
}
},
"LicenseUsage": {
"base": " Describes the entitlement usage associated with a license. ",
"refs": {
"GetLicenseUsageResponse$LicenseUsage": " License usage details. "
}
},
"LicenseUsageException": {
"base": " You do not have enough licenses available to support a new resource launch. ",
"refs": {
}
},
"ListAssociationsForLicenseConfigurationRequest": {
"base": null,
"refs": {
}
},
"ListAssociationsForLicenseConfigurationResponse": {
"base": null,
"refs": {
}
},
"ListDistributedGrantsRequest": {
"base": null,
"refs": {
}
},
"ListDistributedGrantsResponse":
{
"base": null,
"refs": {
}
},
"ListFailuresForLicenseConfigurationOperationsRequest": {
"base": null,
"refs": {
}
},
"ListFailuresForLicenseConfigurationOperationsResponse": {
"base": null,
"refs": {
}
},

"ListLicenseConfigurationsRequest": {
"base": null,
"refs": {
}
},
"ListLicenseConfigurationsResponse": {
"base": null,
"refs": {
}
},
"ListLicenseConversionTasksRequest": {
"base": null,
"refs": {
}
},
"ListLicenseConversionTasksResponse": {
"base": null,
"refs": {
}
},
"ListLicenseManagerReportGeneratorsRequest": {
"base": null,
"refs": {
}
},
"ListLicenseManagerReportGeneratorsResponse": {
"base": null,
"refs": {
}
},
"ListLicenseSpecificationsForResourceRequest": {
"base": null,
"refs": {
}
},
"ListLicenseSpecificationsForResourceResponse":
{
"base": null,
"refs": {
}
},
"ListLicenseVersionsRequest": {
"base": null,
"refs": {
}
},
"ListLicenseVersionsResponse": {
"base": null,

"refs": {
}
},
"ListLicensesRequest": {
"base": null,
"refs": {
}
},
"ListLicensesResponse": {
"base": null,
"refs": {
}
},
"ListReceivedGrantsForOrganizationRequest": {
"base": null,
"refs": {
}
},
"ListReceivedGrantsForOrganizationResponse": {
"base": null,
"refs": {
}
},
"ListReceivedGrantsRequest": {
"base": null,
"refs": {
}
},
"ListReceivedGrantsResponse": {
"base": null,
"refs": {
}
},
"ListReceivedLicensesForOrganizationRequest": {
"base": null,
"refs": {
}
},
"ListReceivedLicensesForOrganizationResponse": {
"base": null,
"refs": {
}
},
"ListReceivedLicensesRequest":
{
"base": null,
"refs": {
}

},
"ListReceivedLicensesResponse": {
  "base": null,
  "refs": {
  }
},
"ListResourceInventoryRequest": {
  "base": null,
  "refs": {
  }
},
"ListResourceInventoryResponse": {
  "base": null,
  "refs": {
  }
},
"ListTagsForResourceRequest": {
  "base": null,
  "refs": {
  }
},
"ListTagsForResourceResponse": {
  "base": null,
  "refs": {
  }
},
"ListTokensRequest": {
  "base": null,
  "refs": {
  }
},
"ListTokensResponse": {
  "base": null,
  "refs": {
  }
},
"ListUsageForLicenseConfigurationRequest": {
  "base": null,
  "refs": {
  }
},
"ListUsageForLicenseConfigurationResponse": {
  "base": null,
  "refs": {
  }
},
"Location": {
  "base": null,

"refs": {
"RedirectException$Location": null
}
},
"Long":
{
"base": null,
"refs": {
"Entitlement$MaxCount": " Maximum entitlement count. Use if the unit is not None. "
}
},
"ManagedResourceSummary": {
"base": " Summary information about a managed resource. ",
"refs": {
"ManagedResourceSummaryList$member": null
}
},
"ManagedResourceSummaryList": {
"base": null,
"refs": {
"GetLicenseConfigurationResponse$ManagedResourceSummaryList": " Summaries of the managed resources. ",
"LicenseConfiguration$ManagedResourceSummaryList": " Summaries for managed resources. "
}
},
"MaxSize100": {
"base": null,
"refs": {
"ListDistributedGrantsRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListLicenseManagerReportGeneratorsRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListLicenseVersionsRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListLicensesRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListReceivedGrantsForOrganizationRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListReceivedGrantsRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListReceivedLicensesForOrganizationRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListReceivedLicensesRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListTokensRequest$MaxResults": " Maximum number of results to return in a single call. "
}
},
"MaxSize3StringList": {
"base": null,
"refs": {
"CreateTokenRequest$TokenProperties": " Data specified by the caller to be included in the JWT token. The data is mapped to the amr claim of the JWT token. ",

"GetAccessTokenRequest$TokenProperties": " Token properties to validate against those present in the JWT token. ",
"TokenData$TokenProperties": " Data specified by the caller. "
}
},
"Message": {
"base": null,
"refs": {
"AccessDeniedException$Message": null,
"AuthorizationException$Message": null,
"ConflictException$Message": null,
"EntitlementNotAllowedException$Message": null,
"FailedDependencyException$Message": null,
"FilterLimitExceededException$Message": null,
"InvalidParameterValueException$Message": null,
"InvalidResourceStateException$Message": null,
"LicenseUsageException$Message": null,
"NoEntitlementsAllowedException$Message": null,
"RateLimitExceededException$Message": null,
"RedirectException$Message": null,
"ResourceLimitExceededException$Message": null,
"ResourceNotFoundException$Message": null,
"ServerInternalException$Message": null,
"UnsupportedDigitalSignatureMethodException$Message": null,
"ValidationException$Message": null
}
},
"Metadata": {
"base": " Describes key/value pairs. ",
"refs": {
"MetadataList$member": null
}
},
"MetadataList": {
"base": null,
"refs": {
"CheckoutBorrowLicenseRequest$CheckoutMetadata": " Information about constraints. ",
"CheckoutBorrowLicenseResponse$CheckoutMetadata": " Information about constraints. ",
"CreateLicenseRequest$LicenseMetadata": " Information about the license. ",
"CreateLicenseVersionRequest$LicenseMetadata": " Information about the license. ",
"GrantedLicense$LicenseMetadata": " Granted license metadata. ",
"License$LicenseMetadata": " License metadata. ",
"LicenseOperationFailure$MetadataList": " Reserved. "
}
},
"NoEntitlementsAllowedException": {

"base": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"refs": {
}
},
"Options": {
"base": " The options you can specify when you create a new version of a grant, such as activation override behavior. For more information, see Granted licenses in License Manager in the License Manager User Guide. ",
"refs": {
"CreateGrantVersionRequest$Options": " The options specified for the grant. ",
"Grant$Options": " The options specified for the grant. "
}
},
"OrganizationConfiguration": {
"base": " Configuration information for Organizations. ",
"refs": {
"GetServiceSettingsResponse$OrganizationConfiguration": " Indicates whether Organizations is integrated with License Manager for cross-account discovery. ",
"UpdateServiceSettingsRequest$OrganizationConfiguration": " Enables integration with Organizations for cross-account discovery. "
}
},
"PrincipalArnList": {
"base": null,
"refs": {
"CreateGrantRequest$Principals": " The grant principals. You can specify one of the following as an Amazon Resource Name (ARN): <ul> An Amazon Web Services account, which includes only the account specified.   An organizational unit (OU), which includes all accounts in the OU.   An organization, which will include all accounts across your organization. "
}
},
"ProductInformation": {
"base": " Describes product information for a license configuration. ",
"refs": {
"ProductInformationList$member": null
}
},
"ProductInformationFilter": {
"base": " Describes product information filters. ",
"refs": {
"ProductInformationFilterList$member": null
}
},
"ProductInformationFilterList": {

"base": null,
"refs": {
"ProductInformation$ProductInformationFilterList": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. The following filters and are supported when the resource type is <code>SSM_MANAGED</code>: <ul> <code>Application Name</code> - The name of the application. Logical operator is <code>EQUALS</code>.   <code>Application Publisher</code> - The publisher of the application. Logical operator is <code>EQUALS</code>.   <code>Application Version</code> - The version of the application. Logical operator is <code>EQUALS</code>.   <code>Platform Name</code> - The name of the platform. Logical operator is <code>EQUALS</code>.   <code>Platform Type</code> - The platform type. Logical operator is <code>EQUALS</code>.   <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.   <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>.   <code>License Included</code> - The type of license included. Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>. Possible values are: <code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-web</code> | <code>windows-server-datacenter</code>.   The following filters and logical operators are supported when the resource type is <code>RDS</code>: <ul> <code>Engine Edition</code> - The edition of the database engine. Logical operator is <code>EQUALS</code>. Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>.   <code>License Pack</code> - The license pack. Logical operator is <code>EQUALS</code>. Possible values are: <code>data guard</code> | <code>diagnostic pack sqlt</code> | <code>tuning pack sqlt</code> | <code>ols</code> | <code>olap</code>. "
}
},
"ProductInformationList": {
"base": null,
"refs": {
"CreateLicenseConfigurationRequest$ProductInformationList": " Product information. ",
"GetLicenseConfigurationResponse$ProductInformationList": " Product information. ",
"LicenseConfiguration$ProductInformationList": " Product information. ",
"UpdateLicenseConfigurationRequest$ProductInformationList": " New product information. "
}
},
"ProvisionalConfiguration": {
"base": " Details about a provisional configuration. ",
"refs": {
"ConsumptionConfiguration$ProvisionalConfiguration": " Details about a provisional configuration. "
}
},

"RateLimitExceededException": {
"base": " Too many requests have been submitted. Try again after a brief wait. ",
"refs": {
}
},
"ReceivedMetadata": {
"base": " Metadata associated with received licenses and grants. ",
"refs": {
"GrantedLicense$ReceivedMetadata": " Granted license received metadata. "
}
},
"ReceivedStatus": {
"base": null,
"refs": {
"ReceivedMetadata$ReceivedStatus": " Received status. "
}
},
"RedirectException": {
"base": " This is not the correct Region for the resource. Try again. ",
"refs": {
}
},
"RejectGrantRequest": {
"base": null,
"refs": {
}
},
"RejectGrantResponse": {
"base": null,
"refs": {
}
},
"RenewType": {
"base": null,
"refs": {
"ConsumptionConfiguration$RenewType": " Renewal frequency. "
}
},
"ReportContext": {
"base": " Details of the license configuration that this generator reports on. ",
"refs": {
"CreateLicenseManagerReportGeneratorRequest$ReportContext": " Defines the type of license configuration the report generator tracks. ",
"ReportGenerator$ReportContext": " License configuration type for this generator. ",
"UpdateLicenseManagerReportGeneratorRequest$ReportContext": " The report context. "
}
},

"ReportFrequency": {
"base": " Details about how frequently reports are generated. ",
"refs": {
"CreateLicenseManagerReportGeneratorRequest$ReportFrequency": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"ReportGenerator$ReportFrequency": " Details about how frequently reports are generated. ",
"UpdateLicenseManagerReportGeneratorRequest$ReportFrequency": " Frequency by which reports are generated. "
}
},
"ReportFrequencyType": {
"base": null,
"refs": {
"ReportFrequency$period": " Time period between each report. The period can be daily, weekly, or monthly. "
}
},
"ReportGenerator": {
"base": " Describe the details of a report generator. ",
"refs": {
"GetLicenseManagerReportGeneratorResponse$ReportGenerator": " A report generator that creates periodic reports about your license configurations. ",
"ReportGeneratorList$member": null
}
},
"ReportGeneratorList": {
"base": null,
"refs": {
"ListLicenseManagerReportGeneratorsResponse$ReportGenerators": " A report generator that creates periodic reports about your license configurations. "
}
},
"ReportGeneratorName": {
"base": null,
"refs": {
"CreateLicenseManagerReportGeneratorRequest$ReportGeneratorName": " Name of the report generator. ",
"UpdateLicenseManagerReportGeneratorRequest$ReportGeneratorName": " Name of the report generator. "
}
},
"ReportType": {
"base": null,
"refs": {
"ReportTypeList$member": null
}
},
"ReportTypeList": {

"base": null,
"refs": {
"CreateLicenseManagerReportGeneratorRequest$Type": " Type of reports to generate. The following report types an
be generated: <ul> License configuration report - Reports the number and details of consumed licenses for a license configuration.   Resource report - Reports the tracked licenses and resource consumption for a license configuration. ",
"ReportGenerator$ReportType": " Type of reports that are generated. ",
"UpdateLicenseManagerReportGeneratorRequest$Type": " Type of reports to generate. The following report types are supported: <ul> License configuration report - Reports the number and details of consumed licenses for a license configuration.   Resource report - Reports the tracked licenses and resource consumption for a license configuration. "
}
},
"ResourceInventory": {
"base": " Details about a resource. ",
"refs": {
"ResourceInventoryList$member": null
}
},
"ResourceInventoryList": {
"base": null,
"refs": {
"ListResourceInventoryResponse$ResourceInventoryList": " Information about the resources. "
}
},
"ResourceLimitExceededException": {
"base": " Your resource limits have been exceeded. ",
"refs": {
}
},
"ResourceNotFoundException": {
"base": " The resource cannot be found. ",
"refs": {
}
},
"ResourceType": {
"base": null,
"refs": {
"ConsumedLicenseSummary$ResourceType": " Resource type of the resource consuming a license. ",
"LicenseConfigurationAssociation$ResourceType": " Type of server resource. ",
"LicenseConfigurationUsage$ResourceType": " Type of resource. ",
"LicenseOperationFailure$ResourceType": " Resource type. ",
"ManagedResourceSummary$ResourceType": " Type of resource associated with a license. ",
"ResourceInventory$ResourceType": " Type of resource. "
}
},
"S3Location": {

"base":
" Details of the S3 bucket that report generator reports are published to. ",
"refs": {
"ReportGenerator$S3Location": " Details of the S3 bucket that report generator reports are published to. "
}
},
"ServerInternalException": {
"base": " The server experienced an internal error. Try again. ",
"refs": {
}
},
"SignedToken": {
"base": null,
"refs": {
"CheckoutBorrowLicenseResponse$SignedToken": " Signed token. ",
"CheckoutLicenseResponse$SignedToken": " Signed token. "
}
},
"StatusReasonMessage": {
"base": null,
"refs": {
"CreateGrantVersionRequest$StatusReason": " Grant status reason. ",
"DeleteGrantRequest$StatusReason": " The Status reason for the delete request. ",
"Grant$StatusReason": " Grant status reason. ",
"ReceivedMetadata$ReceivedStatusReason": " Received status reason. "
}
},

"String": {
"base": null,
"refs": {
"AcceptGrantResponse$Version": " Grant version. ",
"CheckInLicenseRequest$LicenseConsumptionToken": " License consumption token. ",
"CheckInLicenseRequest$Beneficiary": " License beneficiary. ",
"CheckoutBorrowLicenseRequest$NodeId": " Node ID. ",
"CheckoutBorrowLicenseResponse$LicenseConsumptionToken": " License consumption token. ",
"CheckoutBorrowLicenseResponse$NodeId": " Node ID. ",
"CheckoutLicenseRequest$ProductSKU": " Product SKU. ",
"CheckoutLicenseRequest$KeyFingerprint": " Key fingerprint identifying the license. ",
"CheckoutLicenseRequest$Beneficiary": " License beneficiary. ",
"CheckoutLicenseRequest$NodeId": " Node ID. ",
"CheckoutLicenseResponse$LicenseConsumptionToken": " License consumption token. ",
"CheckoutLicenseResponse$NodeId": " Node ID. ",
"CheckoutLicenseResponse$LicenseArn":
" Amazon Resource Name (ARN) of the checkout license. ",
"CreateGrantRequest$GrantName": " Grant name. ",
"CreateGrantRequest$HomeRegion": " Home Region of the grant. ",

"CreateGrantResponse$Version": " Grant version. ",
"CreateGrantVersionRequest$GrantName": " Grant name. ",
"CreateGrantVersionRequest$SourceVersion": " Current version of the grant. ",
"CreateGrantVersionResponse$Version": " New version of the grant. ",
"CreateLicenseConfigurationRequest$Name": " Name of the license configuration. ",
"CreateLicenseConfigurationRequest$Description": " Description of the license configuration. ",
"CreateLicenseConfigurationResponse$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the license configuration. ",
"CreateLicenseManagerReportGeneratorRequest$Description": " Description of the report generator. ",
"CreateLicenseManagerReportGeneratorResponse$LicenseManagerReportGeneratorArn": " The Amazon Resource Name (ARN) of the new report generator. ",
"CreateLicenseRequest$LicenseName": " License name. ",
"CreateLicenseRequest$ProductName": " Product name. ",
"CreateLicenseRequest$ProductSKU": " Product SKU. ",
"CreateLicenseRequest$HomeRegion": " Home Region for the license. ",
"CreateLicenseRequest$Beneficiary": " License beneficiary. ",
"CreateLicenseResponse$Version": " License version. ",
"CreateLicenseVersionRequest$LicenseName": " License name. ",
"CreateLicenseVersionRequest$ProductName": " Product name. ",
"CreateLicenseVersionRequest$HomeRegion": " Home Region of the license. ",
"CreateLicenseVersionRequest$SourceVersion": " Current version of the license. ",
"CreateLicenseVersionResponse$Version": " New version of the license. ",
"CreateTokenResponse$TokenId": " Token ID. ",
"DeleteGrantRequest$Version": " Current version of the grant. ",
"DeleteGrantResponse$Version": " Grant version. ",
"DeleteLicenseConfigurationRequest$LicenseConfigurationArn": " ID of the license configuration. ",
"DeleteLicenseManagerReportGeneratorRequest$LicenseManagerReportGeneratorArn": " Amazon Resource Name (ARN) of the report generator to be deleted. ",
"DeleteLicenseRequest$SourceVersion": " Current version of the license. ",
"DeleteTokenRequest$TokenId": " Token ID. ",
"Entitlement$Name": " Entitlement name. ",
"Entitlement$Value": " Entitlement resource. Use only if the unit is None. ",
"EntitlementData$Name": " Entitlement data name. ",
"EntitlementData$Value": " Entitlement data value. ",
"EntitlementUsage$Name": " Entitlement usage name. ",
"EntitlementUsage$ConsumedValue": " Resource usage consumed. ",
"EntitlementUsage$MaxCount": " Maximum entitlement usage count. ",
"ExtendLicenseConsumptionRequest$LicenseConsumptionToken": " License consumption token. ",
"ExtendLicenseConsumptionResponse$LicenseConsumptionToken": " License consumption token. ",
"FailedDependencyException$ErrorCode": null,
"GetGrantRequest$Version": " Grant version. ",
"GetLicenseConfigurationRequest$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the license configuration. ",
"GetLicenseConfigurationResponse$LicenseConfigurationId": " Unique ID for the license configuration. ",
"GetLicenseConfigurationResponse$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the

license configuration. ",
"GetLicenseConfigurationResponse$Name": " Name of the license configuration. ",
"GetLicenseConfigurationResponse$Description": " Description of the license configuration. ",
"GetLicenseConfigurationResponse$Status": " License configuration status. ",
"GetLicenseConfigurationResponse$OwnerAccountId": " Account ID of the owner of the license configuration. ",
"GetLicenseConversionTaskResponse$ResourceArn": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. ",
"GetLicenseConversionTaskResponse$StatusMessage": " The status message for the conversion task. ",
"GetLicenseManagerReportGeneratorRequest$LicenseManagerReportGeneratorArn": " Amazon Resource Name (ARN) of the report generator. ",
"GetLicenseRequest$Version": " License version. ",
"GetServiceSettingsResponse$S3BucketArn": " Regional S3 bucket path for storing reports, license trail event data, discovery data, and so on. ",
"GetServiceSettingsResponse$SnsTopicArn": " SNS topic configured to receive notifications from License Manager. ",
"GetServiceSettingsResponse$LicenseManagerResourceShareArn": " Amazon Resource Name (ARN) of the resource share. The License Manager management account provides member accounts with access to this share. ",
"Grant$GrantName": " Grant name. ",
"Grant$HomeRegion": " Home Region of the grant. ",
"Grant$Version": " Grant version. ",
"GrantedLicense$LicenseName": " License name. ",
"GrantedLicense$ProductName": " Product name. ",
"GrantedLicense$ProductSKU": " Product SKU. ",
"GrantedLicense$HomeRegion": " Home Region of the granted license. ",
"GrantedLicense$Beneficiary": " Granted license beneficiary. ",
"GrantedLicense$Version": " Version of the granted license. ",
"InventoryFilter$Name": " Name of the filter. ",
"InventoryFilter$Value": " Value of the filter. ",
"Issuer$Name": " Issuer name. ",
"Issuer$SignKey": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm. ",
"IssuerDetails$Name": " Issuer name. ",
"IssuerDetails$SignKey": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm. ",
"IssuerDetails$KeyFingerprint": " Issuer key fingerprint. ",
"License$LicenseName": " License name. ",
"License$ProductName": " Product name. ",
"License$ProductSKU": " Product SKU. ",
"License$HomeRegion": " Home Region of the license. ",
"License$Beneficiary": " License beneficiary. ",
"License$Version": " License version. ",
"LicenseConfiguration$LicenseConfigurationId": " Unique ID of the license configuration. ",
"LicenseConfiguration$LicenseConfigurationArn":

" Amazon Resource Name (ARN) of the license configuration. ",
"LicenseConfiguration$Name": " Name of the license configuration. ",
"LicenseConfiguration$Description": " Description of the license configuration. ",
"LicenseConfiguration$Status": " Status of the license configuration. ",
"LicenseConfiguration$OwnerAccountId": " Account ID of the license configuration's owner. ",
"LicenseConfigurationAssociation$ResourceArn": " Amazon Resource Name (ARN) of the resource. ",
"LicenseConfigurationAssociation$ResourceOwnerId": " ID of the Amazon Web Services account that owns the resource consuming licenses. ",
"LicenseConfigurationAssociation$AmiAssociationScope": " Scope of AMI associations. The possible value is <code>cross-account</code>. ",
"LicenseConfigurationUsage$ResourceArn": " Amazon Resource Name (ARN) of the resource. ",
"LicenseConfigurationUsage$ResourceStatus":
" Status of the resource. ",
"LicenseConfigurationUsage$ResourceOwnerId": " ID of the account that owns the resource. ",
"LicenseConversionTask$ResourceArn": " The Amazon Resource Name (ARN) of the resource associated with the license type conversion task. ",
"LicenseConversionTask$StatusMessage": " The status message for the conversion task. ",
"LicenseOperationFailure$ResourceArn": " Amazon Resource Name (ARN) of the resource. ",
"LicenseOperationFailure$ErrorMessage": " Error message. ",
"LicenseOperationFailure$OperationName": " Name of the operation. ",
"LicenseOperationFailure$ResourceOwnerId": " ID of the Amazon Web Services account that owns the resource. ",
"LicenseOperationFailure$OperationRequestedBy": " The requester is \"License Manager Automated Discovery\". ",
"LicenseSpecification$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the license configuration. ",
"LicenseSpecification$AmiAssociationScope": " Scope of AMI associations. The possible value is <code>cross-account</code>. ",
"ListAssociationsForLicenseConfigurationRequest$LicenseConfigurationArn": " Amazon Resource Name (ARN) of a license configuration. ",
"ListAssociationsForLicenseConfigurationRequest$NextToken": " Token for the next set of results. ",
"ListAssociationsForLicenseConfigurationResponse$NextToken": " Token for the next set of results. ",
"ListDistributedGrantsRequest$NextToken": " Token for the next set of results. ",
"ListDistributedGrantsResponse$NextToken": " Token for the next set of results. ",
"ListFailuresForLicenseConfigurationOperationsRequest$LicenseConfigurationArn": " Amazon Resource Name of the license configuration. ",
"ListFailuresForLicenseConfigurationOperationsRequest$NextToken": " Token for the next set of results. ",

"ListFailuresForLicenseConfigurationOperationsResponse$NextToken": " Token for the next set of results. ",
"ListLicenseConfigurationsRequest$NextToken": " Token for the next set of results. ",
"ListLicenseConfigurationsResponse$NextToken": " Token for the next set of results. ",
"ListLicenseConversionTasksRequest$NextToken": " Token for the next set of results. ",
"ListLicenseConversionTasksResponse$NextToken": " Token for the next set of results. ",
"ListLicenseManagerReportGeneratorsRequest$NextToken": " Token for the next set of results. ",
"ListLicenseManagerReportGeneratorsResponse$NextToken": " Token for the next set of results. ",
"ListLicenseSpecificationsForResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of a

resource that has an associated license configuration. ",
"ListLicenseSpecificationsForResourceRequest$NextToken": " Token for the next set of results. ",
"ListLicenseSpecificationsForResourceResponse$NextToken": " Token for the next set of results. ",
"ListLicenseVersionsRequest$NextToken": " Token for the next set of results. ",
"ListLicenseVersionsResponse$NextToken": " Token for the next set of results. ",
"ListLicensesRequest$NextToken": " Token for the next set of results. ",
"ListLicensesResponse$NextToken": " Token for the next set of results. ",
"ListReceivedGrantsForOrganizationRequest$NextToken": " Token for the next set of results. ",
"ListReceivedGrantsForOrganizationResponse$NextToken": " Token for the next set of results. ",
"ListReceivedGrantsRequest$NextToken": " Token for the next set of results. ",
"ListReceivedGrantsResponse$NextToken": " Token for the next set of results. ",
"ListReceivedLicensesForOrganizationRequest$NextToken": " Token for the next set of results. ",
"ListReceivedLicensesForOrganizationResponse$NextToken":
" Token for the next set of results. ",
"ListReceivedLicensesRequest$NextToken": " Token for the next set of results. ",
"ListReceivedLicensesResponse$NextToken": " Token for the next set of results. ",
"ListResourceInventoryRequest$NextToken": " Token for the next set of results. ",
"ListResourceInventoryResponse$NextToken": " Token for the next set of results. ",
"ListTagsForResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of the license configuration. ",
"ListTokensRequest$NextToken": " Token for the next set of results. ",
"ListTokensResponse$NextToken": " Token for the next set of results. ",
"ListUsageForLicenseConfigurationRequest$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the license configuration. ",
"ListUsageForLicenseConfigurationRequest$NextToken": " Token for the next set of results. ",
"ListUsageForLicenseConfigurationResponse$NextToken": " Token for the next set of results. ",
"MaxSize3StringList$member": null,
"Metadata$Name": " The key name. ",
"Metadata$Value": " The value. ",
"ProductInformation$ResourceType": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"ProductInformationFilter$ProductInformationFilterName": " Filter name. ",
"ProductInformationFilter$ProductInformationFilterComparator": " Logical operator. ",
"RejectGrantResponse$Version": " Grant version. ",
"ReportGenerator$ReportGeneratorName": " Name of the report generator. ",
"ReportGenerator$LicenseManagerReportGeneratorArn": " Amazon Resource Name (ARN) of the report generator. ",
"ReportGenerator$LastRunStatus": " Status of the last report generation attempt. ",
"ReportGenerator$LastRunFailureReason": " Failure
message for the last report generation attempt. ",
"ReportGenerator$LastReportGenerationTime": " Time the last report was generated at. ",
"ReportGenerator$ReportCreatorAccount": " The Amazon Web Services account ID used to create the report generator. ",
"ReportGenerator$Description": " Description of the report generator. ",
"ReportGenerator$CreateTime": " Time the report was created. ",
"ResourceInventory$ResourceId": " ID of the resource. ",
"ResourceInventory$ResourceArn": " Amazon Resource Name (ARN) of the resource. ",
"ResourceInventory$Platform": " Platform of the resource. ",

"ResourceInventory$PlatformVersion": " Platform version of the resource in the inventory. ",
"ResourceInventory$ResourceOwningAccountId": " ID of the account that owns the resource. ",
"S3Location$bucket": " Name of the S3 bucket reports are published to. ",

"S3Location$keyPrefix": " Prefix of the S3 bucket reports are published to. ",
"StringList$member": null,
"Tag$Key": " Tag key. ",
"Tag$Value": " Tag value. ",
"TagKeyList$member": null,
"TagResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of the license configuration. ",
"TokenData$TokenId": " Token ID. ",
"TokenData$TokenType": " Type of token generated. The supported value is <code>REFRESH_TOKEN</code>. ",
"TokenData$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"TokenData$Status": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. ",
"UntagResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of the license configuration. ",
"UpdateLicenseConfigurationRequest$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the license configuration. ",
"UpdateLicenseConfigurationRequest$Name": " New name of the license configuration. ",
"UpdateLicenseConfigurationRequest$Description": " New description of the license configuration. ",
"UpdateLicenseManagerReportGeneratorRequest$LicenseManagerReportGeneratorArn": " Amazon Resource Name (ARN) of the report generator to update. ",
"UpdateLicenseManagerReportGeneratorRequest$Description": " Description of the report generator. ",
"UpdateLicenseSpecificationsForResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of the Amazon Web Services resource. ",
"UpdateServiceSettingsRequest$S3BucketArn": " Amazon Resource Name (ARN) of the Amazon S3 bucket where the License Manager information is stored. ",
"UpdateServiceSettingsRequest$SnsTopicArn": " Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
}
},
"StringList": {
"base": null,
"refs": {
"CreateLicenseConfigurationRequest$LicenseRules": " License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules vary by dimension, as follows.   <code>Cores</code> dimension: <code>allowedTenancy</code> | <code>licenseAffinityToHost</code> | <code>maximumCores</code> | <code>minimumCores</code>   <code>Instances</code> dimension: <code>allowedTenancy</code> | <code>maximumCores</code> | <code>minimumCores</code> | <code>maximumSockets</code> | <code>minimumSockets</code> | <code>maximumVcpus</code> | <code>minimumVcpus</code>   <code>Sockets</code> dimension: <code>allowedTenancy</code> | <code>licenseAffinityToHost</code> | <code>maximumSockets</code> | <code>minimumSockets</code>   <code>vCPUs</code> dimension: <code>allowedTenancy</code> | <code>honorVcpuOptimization</code> | <code>maximumVcpus</code> |

<code>minimumVcpus</code>   The unit for <code>licenseAffinityToHost</code>
 is days and the range is 1 to 180. The possible values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are <code>True</code> and <code>False</code>. ",
      "GetLicenseConfigurationResponse$LicenseRules": " License rules. ",
      "LicenseConfiguration$LicenseRules": " License rules. ",
      "ListLicenseConfigurationsRequest$LicenseConfigurationArns": " Amazon Resource Names (ARN) of the license configurations. ",
      "ListTokensRequest$TokenIds": " Token IDs. ",
      "ProductInformationFilter$ProductInformationFilterValue": " Filter value. ",
      "UpdateLicenseConfigurationRequest$LicenseRules": " New license rule. The only rule that you can add after you create a license configuration is licenseAffinityToHost. "
    }
  },
  "Tag": {
    "base": " Details about a tag
 for a license configuration. ",
    "refs": {
      "TagList$member": null
    }
  },
  "TagKeyList": {
    "base": null,
    "refs": {
      "UntagResourceRequest$TagKeys": " Keys identifying the tags to remove. "
    }
  },
  "TagList": {
    "base": null,
    "refs": {
      "CreateLicenseConfigurationRequest$Tags": " Tags to add to the license configuration. ",
      "CreateLicenseManagerReportGeneratorRequest$Tags": " Tags to add to the report generator. ",
      "GetLicenseConfigurationResponse$Tags": " Tags for the license configuration. ",
      "ListTagsForResourceResponse$Tags": " Information about the tags. ",
      "ReportGenerator$Tags": " Tags associated with the report generator. ",
      "TagResourceRequest$Tags": " One or more tags. "
    }
  },
  "TagResourceRequest": {
    "base": null,
    "refs": {
    }
  },
  "TagResourceResponse": {
    "base": null,
    "refs": {

```
    }
  },
  "TokenData": {
    "base": "<p>Describes a token.</p>",
    "refs": {
      "TokenList$member": null
    }
  },
  "TokenList": {
    "base": null,
    "refs": {
      "ListTokensResponse$Tokens": "<p>Received token details.</p>"
    }
  },
  "TokenString": {
    "base": null,
    "refs": {
      "CreateTokenResponse$Token": "<p>Refresh token, encoded as a JWT token.</p>",
      "GetAccessTokenRequest$Token": "<p>Refresh token, encoded as a JWT token.</p>",
      "GetAccessTokenResponse$AccessToken": "<p>Temporary access token.</p>"
    }
  },
  "TokenType": {
    "base": null,
    "refs": {
      "CreateTokenResponse$TokenType": "<p>Token type.</p>"
    }
  },
  "UnsupportedDigitalSignatureMethodException": {
    "base": "<p>The digital signature method is unsupported. Try your request again.</p>",
    "refs": {
    }
  },
  "UntagResourceRequest": {
    "base": null,
    "refs": {
    }
  },
  "UntagResourceResponse":
{
    "base": null,
    "refs": {
    }
  },
  "UpdateLicenseConfigurationRequest": {
    "base": null,
    "refs": {
    }
```

},
"UpdateLicenseConfigurationResponse": {
"base": null,
"refs": {
}
},
"UpdateLicenseManagerReportGeneratorRequest": {
"base": null,
"refs": {
}
},
"UpdateLicenseManagerReportGeneratorResponse": {
"base": null,
"refs": {
}
},
"UpdateLicenseSpecificationsForResourceRequest": {
"base": null,
"refs": {
}
},
"UpdateLicenseSpecificationsForResourceResponse": {
"base": null,
"refs": {
}
},
"UpdateServiceSettingsRequest": {
"base": null,
"refs": {
}
},
"UpdateServiceSettingsResponse": {
"base": null,
"refs": {
}
},
"UsageOperation": {
"base": null,
"refs": {
"LicenseConversionContext$UsageOperation": " The Usage operation value that corresponds to the license type you are converting your resource from. For more information about which platforms correspond to which usage operation values see Sample data: usage operation by platform "
}
},
"ValidationException": {
"base": " The provided input is not valid. Try your request again. ",

"refs": {
}
}
}
}
{
"version": "2.0",
"service": " With License Manager, you can discover and track your commercial Linux subscriptions on running Amazon EC2 instances. ",
"operations": {
"GetServiceSettings": " Lists the Linux subscriptions service settings. ",
"ListLinuxSubscriptionInstances": " Lists the running Amazon EC2 instances that were discovered with commercial Linux subscriptions. ",
"ListLinuxSubscriptions": " Lists the Linux subscriptions that have been discovered. If you have linked your organization, the returned results will include data aggregated across your accounts in Organizations. ",
"UpdateServiceSettings": " Updates the service settings for Linux subscriptions. "
},
"shapes": {
"Boolean": {
"base": null,
"refs": {
"UpdateServiceSettingsRequest$AllowUpdate": " Describes if updates are allowed to the service settings for Linux subscriptions. If you allow updates, you can aggregate Linux subscription data in
more than one home Region. "
}
},
"BoxInteger": {
"base": null,
"refs": {
"ListLinuxSubscriptionInstancesRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListLinuxSubscriptionsRequest$MaxResults": " Maximum number of results to return in a single call. "
}
},
"BoxLong": {
"base": null,
"refs": {
"Subscription$InstanceCount": " The total amount of running instances using this subscription. "
}
},
"Filter": {
"base": " A filter object that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria. ",
"refs": {
"FilterList$member": null
}
},
"FilterList": {

"base": null,
"refs": {
"ListLinuxSubscriptionInstancesRequest$Filters": " An array of structures that you can use to filter the results to those that match one
or more sets of key-value pairs that you specify. For example, you can filter by the name of <code>AmiID</code> with an optional operator to see subscriptions that match, partially match, or don't match a certain Amazon Machine Image (AMI) ID. The valid names for this filter are: <ul> <code>AmiID</code>   <code>InstanceID</code>   <code>AccountID</code>   <code>Status</code>   <code>Region</code>   <code>UsageOperation</code>   <code>ProductCode</code>   <code>InstanceType</code>   The valid Operators for this filter are: <ul> <code>contains</code>   <code>equals</code>   <code>Notequal</code> ",
"ListLinuxSubscriptionsRequest$Filters": " An array of structures that you can use to filter the results to those that match one or more sets of key-value
pairs that you specify. For example, you can filter by the name of <code>Subscription</code> with an optional operator to see subscriptions that match, partially match, or don't match a certain subscription's name. The valid names for this filter are: <ul> <code>Subscription</code>   The valid Operators for this filter are: <ul> <code>contains</code>   <code>equals</code>   <code>Notequal</code> "
}
},
"GetServiceSettingsRequest": {
"base": null,
"refs": {
}
},
"GetServiceSettingsResponse": {
"base": null,
"refs": {
}
},
"Instance": {
"base": " Details discovered information about a running instance using Linux subscriptions. ",
"refs": {
"InstanceList$member": null
}
},
"InstanceList": {
"base": null,
"refs": {
"ListLinuxSubscriptionInstancesResponse$Instances":
" An array that contains instance objects. "
}
},
"InternalServerException": {
"base": " An exception occurred with the service. ",
"refs": {

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    }
  },
  "LinuxSubscriptionsDiscovery": {
    "base": null,
    "refs": {
      "GetServiceSettingsResponse$LinuxSubscriptionsDiscovery": "<p>Lists if discovery has been enabled for
Linux subscriptions.</p>",
      "UpdateServiceSettingsRequest$LinuxSubscriptionsDiscovery": "<p>Describes if the discovery of Linux
subscriptions is enabled.</p>",
      "UpdateServiceSettingsResponse$LinuxSubscriptionsDiscovery": "<p>Lists if discovery has been enabled for
Linux subscriptions.</p>"
    }
  },
  "LinuxSubscriptionsDiscoverySettings": {
    "base": "<p>Lists the settings defined for discovering Linux subscriptions.</p>",
    "refs": {
      "GetServiceSettingsResponse$LinuxSubscriptionsDiscoverySettings": "<p>Lists the settings defined for Linux
subscriptions discovery. The settings
 include if Organizations integration has been enabled, and which Regions data will be aggregated from.</p>",
      "UpdateServiceSettingsRequest$LinuxSubscriptionsDiscoverySettings": "<p>The settings defined for Linux
subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data
will be aggregated from.</p>",
      "UpdateServiceSettingsResponse$LinuxSubscriptionsDiscoverySettings": "<p>The settings defined for Linux
subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data
will be aggregated from.</p>"
    }
  },
  "ListLinuxSubscriptionInstancesRequest": {
    "base": "<p>NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in request
increases.</p>",
    "refs": {
    }
  },
  "ListLinuxSubscriptionInstancesRequestNextTokenString": {
    "base": null,
    "refs": {
      "ListLinuxSubscriptionInstancesRequest$NextToken":
 "<p>Token for the next set of results.</p>"
    }
  },
  "ListLinuxSubscriptionInstancesResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListLinuxSubscriptionsRequest": {
    "base": "<p>NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in request
increases.</p>",
```

"refs": {
}
},
"ListLinuxSubscriptionsRequestNextTokenString": {
"base": null,
"refs": {
"ListLinuxSubscriptionsRequest$NextToken": " Token for the next set of results. "
}
},
"ListLinuxSubscriptionsResponse": {
"base": null,
"refs": {
}
},
"Operator": {
"base": null,
"refs": {
"Filter$Operator": " An operator for filtering results. "
}
},
"OrganizationIntegration": {
"base": null,
"refs": {
"LinuxSubscriptionsDiscoverySettings$OrganizationIntegration": " Details if you have enabled resource discovery across
your accounts in Organizations. "
}
},
"ProductCodeList": {
"base": null,
"refs": {
"Instance$ProductCode": " The product code for the instance. For more information, see Usage operation values in the License Manager User Guide . "
}
},
"Status": {
"base": null,
"refs": {
"GetServiceSettingsResponse$Status": " Indicates the status of Linux subscriptions settings being applied. ",
"UpdateServiceSettingsResponse$Status": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"String": {
"base": null,
"refs": {

"Filter$Name": " The type of name to filter by. ",
"Instance$AccountID": " The account ID which owns the instance. ",
"Instance$AmiId": " The AMI ID used to launch the instance. ",
"Instance$InstanceID": " The instance ID of the resource. ",
"Instance$InstanceType": " The instance type of the resource. ",
"Instance$LastUpdatedTime": " The time in which the last discovery updated the instance details. ",
"Instance$Region": " The Region the instance is running in. ",
"Instance$Status": " The status of the instance. ",
"Instance$SubscriptionName": " The name of the subscription being used by the instance. ",
"Instance$UsageOperation": " The usage operation of the instance. For more information, see For more information, see Usage operation values in the License Manager User Guide. ",
"InternalServerException$message": null,
"ListLinuxSubscriptionInstancesResponse$NextToken": " Token for the next set of results. ",
"ListLinuxSubscriptionsResponse$NextToken": " Token for the next set of results. ",
"ProductCodeList$member": null,
"StringMap$key": null,
"StringMap$value": null,
"Subscription$Name": " The name of the subscription. ",
"Subscription$Type": " The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS. ",
"ThrottlingException$message": null,
"ValidationException$message": null
}
},
"StringList": {
"base": null,
"refs": {
"Filter$Values": " One or more values for the name to filter by. ",
"GetServiceSettingsResponse$HomeRegions": " The Region in which License Manager displays the aggregated data for Linux subscriptions. ",
"LinuxSubscriptionsDiscoverySettings$SourceRegions": " The Regions in which to discover data for Linux subscriptions. ",
"UpdateServiceSettingsResponse$HomeRegions": " The Region in which License Manager displays the aggregated data for Linux subscriptions. "
}
},
"StringListMemberString": {
"base": null,
"refs": {
"StringList$member": null
}
},
"StringMap": {
"base": null,

"refs": {
"GetServiceSettingsResponse$StatusMessage": " A message which details the Linux subscriptions service settings current status. ",
"UpdateServiceSettingsResponse$StatusMessage": " A message which details the Linux subscriptions service settings current status. "
}
},
"Subscription": {
"base": " An object which details a discovered Linux subscription. ",
"refs": {
"SubscriptionList$member": null
}
},
"SubscriptionList": {
"base": null,
"refs": {

"ListLinuxSubscriptionsResponse$Subscriptions": " An array that contains subscription objects. "
}
},
"ThrottlingException": {
"base": " The request was denied due to request throttling. ",
"refs": {
}
},
"UpdateServiceSettingsRequest": {
"base": null,
"refs": {
}
},
"UpdateServiceSettingsResponse": {
"base": null,
"refs": {
}
},
"ValidationException": {
"base": " The provided input is not valid. Try your request again. ",
"refs": {
}
}
}
}
{
"testCases": [
{
"documentation": "For region af-south-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {

"url": "https://license-manager.af-south-1.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "af-south-1"
}
},
{
"documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-east-1.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "ap-east-1"
}
},
{
"documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",

"expect": {
"endpoint": {
"url": "https://license-manager.ap-northeast-1.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "ap-northeast-1"
}
},
{
"documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-northeast-2.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "ap-northeast-2"
}

```
    },
    {
      "documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-northeast-3.amazonaws.com"
         }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "ap-northeast-3"
      }
    },
    {
      "documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-south-1.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "ap-south-1"
      }
    },
    {
      "documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-southeast-1.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack":
false,
        "Region": "ap-southeast-1"
      }
    },
    {
      "documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-southeast-2.amazonaws.com"
        }
      },
```

"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "ap-southeast-2"
}
},
{
"documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-southeast-3.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "ap-southeast-3"
}
},
{
"documentation":
"For region ca-central-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ca-central-1.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "ca-central-1"
}
},
{
"documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-central-1.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "eu-central-1"
}
},
{
"documentation": "For region eu-north-1 with FIPS disabled and DualStack disabled",

"expect": {
"endpoint":
{
"url": "https://license-manager.eu-north-1.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "eu-north-1"
}
},
{
"documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-south-1.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "eu-south-1"
}
},
{
"documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-west-1.amazonaws.com"
}
},
"params":
{
"UseFIPS": false,
"UseDualStack": false,
"Region": "eu-west-1"
}
},
{
"documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-west-2.amazonaws.com"
}
},
"params": {
"UseFIPS": false,

"UseDualStack": false,
"Region": "eu-west-2"
}
},
{
"documentation": "For region eu-west-3 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-west-3.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "eu-west-3"
}

},
{
"documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.me-south-1.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "me-south-1"
}
},
{
"documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.sa-east-1.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "sa-east-1"
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {

"endpoint": {
"url": "https://license-manager.us-east-1.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "us-east-1"
}
},
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-east-1.amazonaws.com"
}
},
"params": {
"UseFIPS": true,
"UseDualStack": false,
"Region": "us-east-1"
}
},
{
"documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-east-2.amazonaws.com"
}
},

"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "us-east-2"
}
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"expect": {
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"url": "https://license-manager-fips.us-east-2.amazonaws.com"
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},
"params": {
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        "Region": "us-east-1"
    }
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        }
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        "Region": "us-east-1"
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            "UseDualStack": false,
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            "UseDualStack": true,
            "Region": "us-iso-east-1"
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    "expect": {
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        "UseDualStack": false,
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        "Endpoint": "https://example.com"
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        "UseDualStack": true,
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        "Endpoint": "https://example.com"
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    "expect": {
        "error": "Invalid Configuration: Missing Region"
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      "params": {
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with FIPS disabled and DualStack enabled",
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        }
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      "params": {
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        "UseDualStack": true,
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    },
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"UseFIPS": false
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}
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"params": {
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            "UseFIPS": true
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        "UseFIPS": false
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"Endpoint": "https://example.com"
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"UseDualStack": false,
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"Endpoint": "https://example.com"
}

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      "limit_key": "MaxResults",
      "result_key": "IdentityProviderSummaries"
    },
    "ListInstances": {
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      "output_token": "NextToken",
      "limit_key": "MaxResults",
      "result_key": "InstanceSummaries"
    },
    "ListProductSubscriptions": {
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      "output_token": "NextToken",
      "limit_key": "MaxResults",
      "result_key": "ProductUserSummaries"
    },
    "ListUserAssociations": {
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      "output_token": "NextToken",
      "limit_key": "MaxResults",
      "result_key": "InstanceUserSummaries"
    }
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      "required": true,
      "documentation": "The AWS region used to dispatch the request.",
      "type": "String"
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    "UseDualStack": {
      "builtIn": "AWS::UseDualStack",
      "required": true,
      "default": false,
      "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
      "type": "Boolean"
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      "required": true,
      "default": false,
      "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
      "type": "Boolean"
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      "type": "String"
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        "type": "error"
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                "type": "endpoint"
            }
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        },
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      "argv": [
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        },
        true
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                    }
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                            "supportsDualStack"
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fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ]
    },
    {
        "conditions": [],
        "error": "FIPS and DualStack are enabled, but this partition does not support one or both",
        "type": "error"
    }
]
},
```

```
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseFIPS"
                            },
                            true

        ]
                    }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    true,
                                    {
                                        "fn": "getAttr",
                                        "argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },
                                            "supportsFIPS"
                                        ]
                                    }
                                ]
                            }
                        ],

  "type": "tree",
                        "rules": [
                            {
                                "conditions": [],
                                "endpoint": {
                                    "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                                    "properties": {},
                                    "headers": {}
                                },
                                "type": "endpoint"
                            }
                        ]
                    },
```

```
            {
              "conditions": [],
              "error": "FIPS is enabled but this partition does not support FIPS",
              "type": "error"
            }
          ]
        },
        {
          "conditions": [
            {

         "fn": "booleanEquals",
              "argv": [
                {
                  "ref": "UseDualStack"
                },
                true
              ]
            }
          ],
          "type": "tree",
          "rules": [
            {
              "conditions": [
                {
                  "fn": "booleanEquals",
                  "argv": [
                    true,
                    {
                      "fn": "getAttr",
                      "argv": [
                        {
                          "ref": "PartitionResult"
                        },

             "supportsDualStack"
                      ]
                    }
                  ]
                }
              ],
              "type": "tree",
              "rules": [
                {
                  "conditions": [],
                  "endpoint": {
                    "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
```

```
                "properties": {},
                "headers": {}
            },
            "type": "endpoint"
        }
    ]
  },
  {
    "conditions": [],
    "error":
 "DualStack is enabled but this partition does not support DualStack",
    "type": "error"
  }
]
},
{
  "conditions": [],
  "endpoint": {
    "url": "https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
    "properties": {},
    "headers": {}
  },
  "type": "endpoint"
}
]
}
]
}
```


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```
{
 "version":"2.0",
 "metadata":{
   "apiVersion":"2018-05-10",
   "endpointPrefix":"license-manager-user-subscriptions",
   "jsonVersion":"1.1",
   "protocol":"rest-json",
   "serviceFullName":"AWS License Manager User Subscriptions",
   "serviceId":"License Manager User Subscriptions",
   "signatureVersion":"v4",
   "signingName":"license-manager-user-subscriptions",
   "uid":"license-manager-user-subscriptions-2018-05-10"
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 "operations":{
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     "name":"AssociateUser",
     "http":{
       "method":"POST",
       "requestUri":"/user/AssociateUser",
       "responseCode":200
     },
     "input":{"shape":"AssociateUserRequest"},
     "output":{"shape":"AssociateUserResponse"},
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       {"shape":"ThrottlingException"},
       {"shape":"InternalServerException"},
       {"shape":"ResourceNotFoundException"},
        {"shape":"AccessDeniedException"}
     ],
     "idempotent":true
   },
   "DeregisterIdentityProvider":{
     "name":"DeregisterIdentityProvider",
     "http":{
       "method":"POST",
       "requestUri":"/identity-provider/DeregisterIdentityProvider",
       "responseCode":200
```

```
  },
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},
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    {"shape":"AccessDeniedException"}
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  "idempotent":true
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  "http":{
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    "requestUri":"/identity-provider/ListIdentityProviders",
    "responseCode":200
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{"shape":"InternalServerException"},
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"name":"ListProductSubscriptions",
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"responseCode":200
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},
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},
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{"shape":"ResourceNotFoundException"},
{"shape":"AccessDeniedException"}
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"responseCode":200
},
"input":{"shape":"RegisterIdentityProviderRequest"},
"output":{"shape":"RegisterIdentityProviderResponse"},
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{"shape":"ResourceNotFoundException"},
{"shape":"AccessDeniedException"}
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"responseCode":200
},
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{"shape":"ConflictException"},
{"shape":"ValidationException"},

{"shape":"ThrottlingException"},
{"shape":"InternalServerException"},
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{"shape":"AccessDeniedException"}
]
},
"StopProductSubscription":{
"name":"StopProductSubscription",
"http":{
"method":"POST",
"requestUri":"/user/StopProductSubscription",
"responseCode":200
},
"input":{"shape":"StopProductSubscriptionRequest"},
"output":{"shape":"StopProductSubscriptionResponse"},
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{"shape":"ConflictException"},
{"shape":"ValidationException"},
{"shape":"ThrottlingException"},
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},

{"shape":"AccessDeniedException"}
]
},
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"requestUri":"/identity-provider/UpdateIdentityProviderSettings",
"responseCode":200
},
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{"shape":"AccessDeniedException"}
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"idempotent":true
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},
"shapes":{
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"type":"structure",
"members":{

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"exception":true
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"ActiveDirectoryIdentityProvider":{
"type":"structure",
"members":{
"DirectoryId":{"shape":"String"}
}
},
"AssociateUserRequest":{
"type":"structure",
"required":[
"IdentityProvider",
"InstanceId",
"Username"
],
"members":{
"Domain":{"shape":"String"},
"IdentityProvider":{"shape":"IdentityProvider"},
"InstanceId":{"shape":"String"},
"Username":{"shape":"String"}
}
},
"AssociateUserResponse":{
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"members":{
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}
},
"BoxInteger":{
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"box":true
},
"ConflictException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
},
"exception":true,
"fault":true
},
"DeregisterIdentityProviderRequest":{
"type":"structure",
"required":[
"IdentityProvider",
"Product"

```
  ],
  "members":{
    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{"shape":"String"}
  }
 },
"DeregisterIdentityProviderResponse":{
  "type":"structure",
  "required":["IdentityProviderSummary"],
  "members":{
    "IdentityProviderSummary":{"shape":"IdentityProviderSummary"}
  }
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"DisassociateUserRequest":{
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  "required":[
    "IdentityProvider",
    "InstanceId",
    "Username"
  ],
  "members":{
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    "IdentityProvider":{"shape":"IdentityProvider"},
    "InstanceId":{"shape":"String"},
    "Username":{"shape":"String"}
  }
},
"DisassociateUserResponse":{
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  "required":["InstanceUserSummary"],
  "members":{
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  }
},
"Filter":{
  "type":"structure",
  "members":{
    "Attribute":{"shape":"String"},
    "Operation":{"shape":"String"},
    "Value":{"shape":"String"}
  }
},
"FilterList":{
  "type":"list",
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},
"IdentityProvider":{
  "type":"structure",
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"members":{
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},
"union":true
},
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"IdentityProvider",
"Product",
"Settings",
"Status"
],
"members":{
"FailureMessage":{"shape":"String"},
"IdentityProvider":{"shape":"IdentityProvider"},
"Product":{"shape":"String"},
"Settings":{"shape":"Settings"},
"Status":{"shape":"String"}
}
},
"IdentityProviderSummaryList":{
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},
"InstanceSummary":{
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"InstanceId",
"Products",
"Status"
],
"members":{
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"LastStatusCheckDate":{"shape":"String"},
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"Status":{"shape":"String"},
"StatusMessage":{"shape":"String"}
}
},
"InstanceSummaryList":{
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"IdentityProvider",

"InstanceId",
"Status",
"Username"
],
"members":{
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"Domain":{"shape":"String"},
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"InstanceId":{"shape":"String"},
"Status":{"shape":"String"},
"StatusMessage":{"shape":"String"},
"Username":{"shape":"String"}
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"NextToken":{"shape":"String"}
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"NextToken":{"shape":"String"}
}
},
"ListProductSubscriptionsRequest":{
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"Product"
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"IdentityProvider":{"shape":"IdentityProvider"},
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"NextToken":{"shape":"String"},
"Product":{"shape":"String"}
}
},
"ListProductSubscriptionsResponse":{
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"members":{
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"ProductUserSummaries":{"shape":"ProductUserSummaryList"}
}
},
"ListUserAssociationsRequest":{
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"required":[
"IdentityProvider",
"InstanceId"
],
"members":{
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"IdentityProvider":{"shape":"IdentityProvider"},
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}
},
"ListUserAssociationsResponse":{
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}
},
"ProductUserSummary":{
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"required":[
"IdentityProvider",
"Product",
"Status",
"Username"
],
"members":{
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"IdentityProvider":{"shape":"IdentityProvider"},
"Product":{"shape":"String"},
"Status":{"shape":"String"},
"StatusMessage":{"shape":"String"},
"SubscriptionEndDate":{"shape":"String"},
"SubscriptionStartDate":{"shape":"String"},
"Username":{"shape":"String"}
}
},
"ProductUserSummaryList":{
"type":"list",
"member":{"shape":"ProductUserSummary"}
},
"RegisterIdentityProviderRequest":{
"type":"structure",
"required":[
"IdentityProvider",
"Product"
],
"members":{
"IdentityProvider":{"shape":"IdentityProvider"},
"Product":{"shape":"String"},
"Settings":{"shape":"Settings"}
}
},
"RegisterIdentityProviderResponse":{
"type":"structure",
"required":["IdentityProviderSummary"],
"members":{
"IdentityProviderSummary":{"shape":"IdentityProviderSummary"}
}
},
"ResourceNotFoundException":{

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  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "error":{
    "httpStatusCode":404,
    "senderFault":true
  },
  "exception":true
},
"SecurityGroup":{
  "type":"string",
  "max":200,
  "min":5,
  "pattern":"^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
},
"ServiceQuotaExceededException":{
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  "exception":true
},
"Settings":{
  "type":"structure",
  "required":[
    "SecurityGroupId",
    "Subnets"
  ],
  "members":{
    "SecurityGroupId":{"shape":"SecurityGroup"},
     "Subnets":{"shape":"SettingsSubnetsList"}
  }
},
"SettingsSubnetsList":{
  "type":"list",
  "member":{"shape":"Subnet"},
  "min":1
},
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  "required":[
    "IdentityProvider",
    "Product",
    "Username"
  ],
  "members":{
    "Domain":{"shape":"String"},
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"IdentityProvider":{"shape":"IdentityProvider"},
"Product":{"shape":"String"},
"Username":{"shape":"String"}
}
},
"StartProductSubscriptionResponse":{
"type":"structure",
"required":["ProductUserSummary"],
"members":{
"ProductUserSummary":{"shape":"ProductUserSummary"}
}
},
"StopProductSubscriptionRequest":{
"type":"structure",
"required":[
"IdentityProvider",
"Product",
"Username"
],
"members":{
"Domain":{"shape":"String"},
"IdentityProvider":{"shape":"IdentityProvider"},
"Product":{"shape":"String"},
"Username":{"shape":"String"}
}
},
"StopProductSubscriptionResponse":{
"type":"structure",
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"members":{
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}
},
"String":{"type":"string"},
"StringList":{
"type":"list",
"member":{"shape":"String"}
},
"Subnet":{
"type":"string",
"pattern":"subnet-[a-z0-9]{8,17}"
},
"Subnets":{
"type":"list",
"member":{"shape":"Subnet"}
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"ThrottlingException":{
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"members":{
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},
"exception":true
},
"UpdateIdentityProviderSettingsRequest":{
"type":"structure",
"required":[
"IdentityProvider",
"Product",
"UpdateSettings"
],
"members":{
"IdentityProvider":{"shape":"IdentityProvider"},
"Product":{"shape":"String"},
"UpdateSettings":{"shape":"UpdateSettings"}
}
},
"UpdateIdentityProviderSettingsResponse":{
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"required":["IdentityProviderSummary"],
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}
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"AddSubnets",
"RemoveSubnets"
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"RemoveSubnets":{"shape":"Subnets"},
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}
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"exception":true
}
}
}

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]
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1.4267 pysnmp-pyasn1 1.1.3

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ASN.1 library for Python

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This is a free and open source implementation of ASN.1 types and codecs
as a Python package. It has been first written to support particular
protocol (SNMP) but then generalized to be suitable for a wide range
of protocols based on
[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

This
project has been forked for ongoing maintenance and modernization.

Features
---

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Can operate on streams of serialized data
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.7 and 3.5+
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.

[Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
 id       INTEGER,
 room  [0] INTEGER OPTIONAL,
 house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
  componentType = NamedTypes(
     NamedType('id', Integer()),
     OptionalNamedType(
        'room', Integer().subtype(
           implicitTag=Tag(tagClassContext, tagFormatSimple, 0)

     )
     ),
     DefaultedNamedType(
        'house', Integer(0).subtype(
           implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
        )
     )
  )
```

It is in the spirit of ASN.1 to take abstract data description
and turn it into a programming language specific form.
Once you have your ASN.1 data structure expressed in Python, you
can use it along the lines of similar Python type (e.g. ASN.1
`SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
```

Part of the power of ASN.1 comes from its serialisation features. You
can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from
network or read from

a file, into a Python object which you can
introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int,
list, dict etc.). But ASN.1 types exhibit more complicated behaviour.
To make life easier for a Pythonista, they can turn their pyasn1
classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of
Python objects:

```python
>>> from
 pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
```

With ASN.1 design, serialisation codecs are decoupled from data objects,
so you could turn every single ASN.1 object into many different

serialised forms. As of this moment, pyasn1 supports BER, DER, CER and
Python built-ins codecs. The extremely compact PER encoding is expected
to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the
[documentation](http://snmplabs.com/pysnmp/pyasn1/docs),
compiled ASN.1 modules for different protocols and file formats
could be found in the pyasn1-modules
[repo](https://github.com/pysnmp/pyasn1-modules).

How to get pyasn1

This project is forked from pyasn1. The pyasn1 package is distributed under terms
and conditions of 2-clause BSD [license](http://snmplabs.com/pyasn1/license.html).
Source code is freely available as
 a GitHub [repo](https://github.com/pysnmp/pyasn1).

You could `pip install pysnmp-pyasn1` or download it from [PyPI](https://pypi.org/project/pysnmp-pyasn1).

If something does not work as expected,
[open an issue](https://github.com/pysnmp/pyasn1/issues) at GitHub or
post your question [on Stack Overflow](https://stackoverflow.com/questions/ask)
or try browsing pyasn1 .

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ASN.1 library for Python
==========

.. toctree::
  :maxdepth: 1

Abstract Syntax Notation One (`ASN.1
<http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x>`_) is a
technology for exchanging structured data in a universally understood,
hardware agnostic way. Many industrial, security and telephony
applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.org/project/pyasn1/>`_ library implements

ASN.1 support in pure-Python.

What is ASN.1

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on if was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and
widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting `discussions <https://news.ycombinator.com/item?id=8871453>`_ on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protocol-buffers/>`_
or `FlatBuffers <https://google.github.io/flatbuffers/>`_, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies

use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF,
 ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas

Apparently, ASN.1 is hard to implement properly. Quality open-source
ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the
`statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_ on discovered
security vulnerabilities, many people have implemented ASN.1 parsers
and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood
and security reviewed.

Documentation

.. toctree::
  :maxdepth: 2

  /pyasn1/contents

Use case

.. toctree::
  :maxdepth: 2

  /example-use-case

Download & Install

.. toctree::
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  /download

Changes

All changes and release history is maintained in changelog. There you
could also download the latest unreleased pyasn1 tarball containing
the latest fixes and improvements.

..
 toctree::
  :maxdepth: 1

  /changelog

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Getting help

Please, file your `issues <https://github.com/etingof/pyasn1/issues>`_
and `PRs <https://github.com/etingof/pyasn1/pulls>`_ at GitHub.
Alternatively, you could ask for help at
`Stack Overflow <http://stackoverflow.com/questions/tagged/pyasn1>`_
or search
`pyasn1-users <https://lists.sourceforge.net/lists/listinfo/pyasn1-users>`_
mailing list archive.

Books on ASN.1

The pyasn1 implementation is largely based on reading up the following awesome
books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by
Olivier Dubuisson
* `ASN.1 Complete <http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>`_ by
Prof John Larmouth

Here you can get the official standards which is hard to read:

* `ITU standards
 <http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>`_

On the other end of the readability spectrum, here is a quick and sweet write up:

* `A Layman's Guide to a Subset of ASN.1, BER, and DER <ftp://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>`_ by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

Found in path(s):
* /opt/cola/permits/2312179263_1736435714.3146703/0/pysnmp-pyasn1-1-1-3-tar-gz/pysnmp-pyasn1-1.1.3/docs/source/contents.rst

1.4268 go-crypto 0.0.0-20210428141323-04723f9f07d7

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1.4269 t-digest 0.0.2-0.20210216194612-fc98d27c9e8b

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1.4270 gopsutil 4.24.0-alpha.1

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1.4271 collector-pdata 1.3.0

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1.4272 genproto-googleapis-rpc 0.0.0-20220921223823-23cae91e6737

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1.4273 zap-exp 1.25.0

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1.4276 workerpool 1.2.0

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1.4282 aws-sdk-go-v2-service-ecr 1.24.7

1.4282.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil,
 err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
```

```
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err !=
 nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }
```

```
 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
```

```
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
```

AWS SDK for Go

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```
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
```

```
      uses: actions/checkout@v2
      with:
        path: new-ref
        fetch-depth: 0
    - name: Get Diff
      run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
    - name: Get Target Files
      run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
       uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
```

```
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
```

```
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return
```

```
 err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckInLicense",
 }
}
{
  "smithy": "2.0",
  "shapes": {
      "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
          "type": "integer"
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
          "type": "long"
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
          "type": "structure",
          "members": {
              "Name": {
                  "target": "smithy.api#String",
                  "traits": {
                      "smithy.api#documentation": "<p>The type of name to filter by.</p>"
```

```
            }
          },
          "Values": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
            "traits": {
              "smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
            }
          },
          "Operator": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
             "traits": {
              "smithy.api#documentation": "<p>An operator for filtering results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>A filter object that is used to return more specific results from a describe
operation.\n      Filters can be used to match a set of resources by specific criteria.</p>"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
        },
        "output": {

         "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the Linux subscriptions service settings.</p>",
```

"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/GetServiceSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest":
{
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " Lists the settings defined for Linux subscriptions discovery. The
settings include if\n Organizations integration has been enabled, and
which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being
applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings
current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays

the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
"type": "structure",
"members": {
"AmiId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The AMI ID used to launch the instance. "
}
},
"InstanceID": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The instance ID of the resource. "
}
},
"InstanceType": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The instance type of the resource. "
}

},
"AccountID": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The account ID which owns the instance. "
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of the instance. "
}
},
"Region": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The Region the instance is running in. "
}
},
"UsageOperation": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " The usage operation of the instance. For more information, see For more information, see\n Usage\n operation values in the License Manager User Guide. "
}
},
"ProductCode": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
"traits": {
"smithy.api#documentation": " The product code for the instance. For more information, see Usage\n operation values in the License Manager User Guide . "
}
},
"LastUpdatedTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The time in which the last discovery updated the instance details. "
}
},
"SubscriptionName": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription being used by the instance. "
}
}
},
"traits": {
"smithy.api#documentation": " Details discovered information about a running instance using Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " An exception occurred with the service. ",

"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
"type": "service",
"version": "2018-05-10",
"operations": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
}
],

"traits": {
"aws.api#service": {
"sdkId": "License Manager Linux Subscriptions",
"arnNamespace": "license-manager-linux-subscriptions",
"cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
},
"aws.auth#sigv4": {
"name": "license-manager-linux-subscriptions"
},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",

"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"

```
            ],
            "additionalExposedHeaders": [
                "x-amzn-errortype",
                "x-amzn-requestid",
                "x-amzn-trace-id"
            ]
        },
        "smithy.api#documentation": "<p>With License Manager, you can discover and track your commercial
Linux subscriptions on running\n      Amazon EC2 instances.</p>",
        "smithy.api#title": "AWS License Manager Linux Subscriptions",
        "smithy.rules#endpointRuleSet": {
            "version": "1.0",
            "parameters": {
                "Region": {
                    "builtIn": "AWS::Region",
                    "required": false,
                    "documentation": "The
 AWS region used to dispatch the request.",
                    "type": "String"
                },
                "UseDualStack": {
                    "builtIn": "AWS::UseDualStack",
                    "required": true,
                    "default": false,
                    "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not
support dual-stack, dispatching the request MAY return an error.",
                    "type": "Boolean"
                },
                "UseFIPS": {
                    "builtIn": "AWS::UseFIPS",
                    "required": true,
                    "default": false,
                    "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the
configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

                 "type": "Boolean"
                },
                "Endpoint": {
                    "builtIn": "SDK::Endpoint",
                    "required": false,
                    "documentation": "Override the endpoint used to send this request",
                    "type": "String"
                }
            },
            "rules": [
                {
                    "conditions": [
                        {
```

```
        "fn": "isSet",
        "argv": [
            {
                "ref": "Endpoint"
            }
        ]
    }
],
"type": "tree",
"rules": [
    {

  "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseFIPS"
                    },
                    true
                ]
            }
        ],
        "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
        "type": "error"
    },
    {
        "conditions": [],
        "type": "tree",
        "rules": [
            {

     "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseDualStack"
                            },
                            true
                        ]
                    }
                ],
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                "type": "error"
            },
            {
                "conditions": [],
```

```
                "endpoint": {
                        "url": {
                            "ref": "Endpoint"
                        },
                        "properties": {},
                        "headers": {}
                    },
                    "type": "endpoint"
                }
            ]
        }
    ]
},
{
    "conditions": [],
    "type": "tree",
    "rules": [
        {
            "conditions": [
                {
                    "fn": "isSet",

        "argv": [
                        {
                            "ref": "Region"
                        }
                    ]
                }
            ],
            "type": "tree",
            "rules": [
                {
                    "conditions": [
                        {
                            "fn": "aws.partition",
                            "argv": [
                                {
                                    "ref": "Region"
                                }
                            ],

    "assign": "PartitionResult"
                        }
                    ],
                    "type": "tree",
                    "rules": [
                        {
```

```
                    "conditions": [
                      {
                        "fn": "booleanEquals",
                        "argv": [
                          {
                            "ref": "UseFIPS"
                          },
                          true
                        ]
                      },

                {
                        "fn": "booleanEquals",
                        "argv": [
                          {
                            "ref": "UseDualStack"
                          },
                          true
                        ]
                      }
                    ],
                    "type": "tree",
                    "rules": [
                      {
                        "conditions": [
                          {

                       "fn": "booleanEquals",
                            "argv": [
                              true,
                              {
                                "fn": "getAttr",
                                "argv": [
                                  {
                                    "ref": "PartitionResult"
                                  },
                                  "supportsFIPS"
                                ]

}
                            ]
                          },
                          {
                            "fn": "booleanEquals",
                            "argv": [
                              true,
                              {
                                "fn": "getAttr",
```

"argv": [
{
"ref": "PartitionResult"
},

"supportsDualStack"
]
}
]
}
],
"type": "tree",
"rules": [
{
"conditions": [],
"type": "tree",
"rules": [
{

"conditions": [],
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
}
]

},
{
"conditions": [],
"error": "FIPS and DualStack are enabled, but this partition does not support one or both",
"type": "error"
}
]
},
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{

"ref": "UseFIPS"
},
true
]
}
],
"type": "tree",
"rules": [
{
"conditions": [
{
"fn": "booleanEquals",
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true,

{
"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsFIPS"
]
}
]
}
],
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"rules": [
{
"conditions": [],
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"rules": [
{
"conditions": [],
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.{Region}.{PartitionResult#dnsSuffix}",
"properties": {},
"headers": {}

},
"type": "endpoint"
}
]
}
]

```
                    },
                    {
                        "conditions": [],
                        "error": "FIPS is enabled but this partition does not support FIPS",
                        "type": "error"
                    }
                ]

},
                {
                    "conditions": [
                        {
                            "fn": "booleanEquals",
                            "argv": [
                                {
                                    "ref": "UseDualStack"
                                },
                                true
                            ]
                        }
                    ],
                    "type": "tree",
                    "rules": [
                        {

                     "conditions": [
                                {
                                    "fn": "booleanEquals",
                                    "argv": [
                                        true,
                                        {
                                            "fn": "getAttr",
                                            "argv": [
                                                {
                                                    "ref": "PartitionResult"
                                                },
                                                "supportsDualStack"
                                             ]
                                        }
                                    ]
                                }
                            ],
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                            "rules": [
                                {
                                    "conditions": [],
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                                    "rules": [
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{
"conditions": [],

"endpoint": {
"url": "https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
}
]
},

{
"conditions": [],
"error": "DualStack is enabled but this partition does not support DualStack",
"type": "error"
}
]
},
{
"conditions": [],
"type": "tree",
"rules": [
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"conditions": [],
"endpoint": {
"url": "https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
}
]
}
]
},
{
"conditions": [],
"error": "Invalid Configuration: Missing Region",
"type": "error"
}

```
            ]
          }
        ]
      },
      "smithy.rules#endpointTests": {
        "testCases": [
          {
            "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
              }
            },
            "params": {
              "Region": "us-east-1",
              "UseFIPS": true,
              "UseDualStack": true
            }
          },
          {
            "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
            "expect": {

"endpoint": {
                "url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
              }
            },
            "params": {
              "Region": "us-east-1",
              "UseFIPS": true,
              "UseDualStack": false
            }
          },
          {
            "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
              }
            },
            "params": {
              "Region": "us-east-1",
              "UseFIPS": false,
               "UseDualStack": true
            }
          },
          {
            "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
```

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    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "us-east-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "endpoint": {

    "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
      }
    },
    "params": {
      "Region": "cn-north-1",
      "UseFIPS": true,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
      }
    },
    "params": {
      "Region": "cn-north-1",
      "UseFIPS": true,
       "UseDualStack": false
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
      }
    },
    "params": {
      "Region": "cn-north-1",
      "UseFIPS": false,
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"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
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{
"url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint":

{
"url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{

"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{

"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {

"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}

```
            },
            {
              "documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
              "expect": {
                "error": "DualStack is enabled but this partition does not support DualStack"
              },
              "params": {
                "Region": "us-isob-east-1",
                "UseFIPS": false,
                "UseDualStack": true
              }
            },
            {
              "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
                }
              },
              "params": {
                "Region": "us-isob-east-1",

        "UseFIPS": false,
                "UseDualStack": false
              }
            },
            {
              "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://example.com"
                }
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",

          "expect": {
                "endpoint": {
                  "url": "https://example.com"
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```
                }
            },
            "params": {
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips enabled and dualstack disabled",
            "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false,

    "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips disabled and dualstack enabled",
            "expect": {
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "Missing region",
            "expect": {
                "error": "Invalid Configuration: Missing Region"
            }

    }
        ],
        "version": "1.0"
    }
  }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
  "type": "string",
  "traits": {
```

```
            "smithy.api#enum": [
                {
                    "name": "Enabled",
                    "value": "Enabled",
                    "documentation": "Enabled LinuxSubscriptionsDiscovery"
                },
                {
                    "name": "Disabled",
                    "value": "Disabled",
                    "documentation": "Disabled LinuxSubscriptionsDiscovery"
                }
            ]
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
        "type": "structure",
        "members": {
            "SourceRegions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                 "traits": {
                    "smithy.api#documentation": "<p>The Regions in which to discover data for Linux
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "OrganizationIntegration": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
                "traits": {
                    "smithy.api#documentation": "<p>Details if you have enabled resource discovery across your
accounts in Organizations.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Lists the settings defined for discovering Linux subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
        "type":
 "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
        },
        "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the running Amazon EC2 instances that were discovered with
commercial Linux\n      subscriptions.</p>",
            "smithy.api#http": {

        "code": 200,
                "method": "POST",
                "uri": "/subscription/ListLinuxSubscriptionInstances"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "Instances"
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by
 the name of\n        <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n
match, or don't match a certain Amazon Machine Image (AMI) ID.</p>\n        <p>The valid names for this filter
are:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>AmiID</code>\n                </p>\n
</li>\n            <li>\n                <p>\n                    <code>InstanceID</code>\n                </p>\n            </li>\n
<li>\n                <p>\n                    <code>AccountID</code>\n                </p>\n            </li>\n            <li>\n
<p>\n                    <code>Status</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>Region</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>UsageOperation</code>\n                </p>\n            </li>\n            <li>\n
    <p>\n                    <code>ProductCode</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
     <code>InstanceType</code>\n                </p>\n            </li>\n        </ul>\n        <p>The valid Operators for this
filter are:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>contains</code>\n                </p>\n
</li>\n            <li>\n                <p>\n                    <code>equals</code>\n                </p>\n            </li>\n            <li>\n
```

```
<p>\n <code>Notequal</code>\n </p>\n </li>\n </ul>"
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"

}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": "<p>Token for the next set of results.</p>",
"smithy.api#length": {
"min": 1,
"max": 16384
}
}
}
},
"traits": {
"smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
"type": "structure",
"members": {
"Instances": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
"traits": {
"smithy.api#documentation": "<p>An array that contains instance objects.</p>"
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": "<p>Token for the next set of results.</p>"
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
```

```
        },
        "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
             },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the Linux subscriptions that have been discovered. If you have linked your\n      organization, the returned results will include data aggregated across your accounts in\n Organizations.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/ListLinuxSubscriptions"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "Subscriptions"
            }

        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>Subscription</code> with an optional operator to see subscriptions that match,\n      partially match, or don't match a certain subscription's name.</p>\n        <p>The valid names for this filter are:</p>\n        <ul>\n <li>\n            <p>\n                <code>Subscription</code>\n            </p>\n        </li>\n        </ul>\n <p>The valid Operators for this filter are:</p>\n
        <ul>\n        <li>\n            <p>\n                <code>contains</code>\n            </p>\n        </li>\n <li>\n            <p>\n                <code>equals</code>\n            </p>\n        </li>\n        <li>\n            <p>\n
```

```
<code>Notequal</code>\n            </p>\n          </li>\n        </ul>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>",
              "smithy.api#length": {

               "min": 1,
                "max": 16384
              }
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
        "type": "structure",
        "members": {
          "Subscriptions": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
            "traits": {
              "smithy.api#documentation": "<p>An array that contains subscription objects.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for
 the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
        "type": "string",
        "traits": {
          "smithy.api#enum": [
```

```
            {
                "name": "EQUAL",
                "value": "Equal",
                "documentation": "Equal operator"
            },
            {
                "name": "NOT_EQUAL",
                "value": "NotEqual",
                "documentation": "Not equal operator"
            },
            {
                "name": "CONTAINS",
                "value": "Contains",
                "documentation": "Contains operator"
            }
        ],
        "smithy.api#length": {
            "min": 1,
            "max": 20
        }
    }
},

"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "name": "Enabled",
                "value": "Enabled",
                "documentation": "Enabled OrganizationIntegration"
            },
            {
                "name": "Disabled",
                "value": "Disabled",
                "documentation": "Disabled OrganizationIntegration"
            }
        ]
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
    "type": "list",
    "member": {
        "target": "smithy.api#String"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
    "type": "string",
```

"traits": {
"smithy.api#enum": [

{
"name": "InProgress",
"value": "InProgress",
"documentation": "InProgress status"
},
{
"name": "Completed",
"value": "Completed",
"documentation": "Completed status"
},
{
"name": "Successful",
"value": "Successful",
"documentation": "Successful status"
},
{
"name": "Failed",
"value": "Failed",
"documentation": "Failed status"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
"type": "list",
"member": {
"target": "smithy.api#String",
"traits":
{
"smithy.api#length": {
"min": 1,
"max": 100
}
}
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
},
"smithy.api#uniqueItems": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
"type": "map",

```
        "key": {
            "target": "smithy.api#String"
        },
        "value": {
            "target": "smithy.api#String"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the subscription.</p>"

        }
            },
            "Type": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The type of subscription. The type can be subscription-included
with Amazon EC2, Bring Your Own\n      Subscription model (BYOS), or from the Amazon Web Services
Marketplace. Certain subscriptions may use licensing from the\n      Amazon Web Services Marketplace as well as
OS licensing from Amazon EC2 or BYOS.</p>"
                }
            },
            "InstanceCount": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>The total amount of running instances using this subscription.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>An object which details a discovered Linux
 subscription.</p>"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
            "message": {
```

```
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The request was denied due to request throttling.</p>",
          "smithy.api#error": "client"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
        },

      "output": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Updates the service settings for Linux subscriptions.</p>",
          "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/subscription/UpdateServiceSettings"
          },
          "smithy.api#idempotent": {}
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest":
{
        "type": "structure",
        "members": {
          "LinuxSubscriptionsDiscovery": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
            "traits": {
              "smithy.api#documentation": "<p>Describes if the discovery of Linux subscriptions is enabled.</p>",
              "smithy.api#required": {}
            }
```

```
            },
            "LinuxSubscriptionsDiscoverySettings": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
                "traits": {
                    "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The
settings include if Organizations\n      integration has been enabled, and which Regions data will be aggregated
from.</p>",

  "smithy.api#required": {}
                }
            },
            "AllowUpdate": {
                "target": "smithy.api#Boolean",
                "traits": {
                    "smithy.api#documentation": "<p>Describes if updates are allowed to the service settings for Linux
subscriptions. If you\n      allow updates, you can aggregate Linux subscription data in more than one home
Region.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "LinuxSubscriptionsDiscovery": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
                "traits": {
                    "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
                }
            },

         "LinuxSubscriptionsDiscoverySettings": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
                "traits": {
                    "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The
settings include if Organizations\n      integration has been enabled, and which Regions data will be aggregated
from.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
                }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
```

```
                "traits": {
                    "smithy.api#documentation":
 "<p>A message which details the Linux subscriptions service settings current status.</p>"
                }
            },
            "HomeRegions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>The Region in which License Manager displays the aggregated
data for Linux\n      subscriptions.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
            "smithy.api#error": "client"
        }
    }
  }
}
```


```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - Beneficiary
 //   - ProductSKU
 //   - Fingerprint
 //
   - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if
 err := addProtocolFinalizerMiddlewares(stack, options, "ListLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
```

```
 err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
     ServiceID,
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 //
 This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
```

```
 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack,
 options, "DisassociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
```

```
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
```

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string
```

```
 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource
 Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string
```

```
 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil
 {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
```

```
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier
 that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
```

```
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
```

```
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return
 err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
```

```
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide
 to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string
```

```
// Configuration for consumption of the license. Choose a provisional
// configuration for workloads running with continuous connectivity. Choose a
// borrow configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity
*types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
```

```
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
  return fmt.Errorf("add
 protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
```

```
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName:
 "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
```

```
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return
 err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack);
 err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
```

```
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "GetLicense",
 }
}
```

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```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
```

```
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
   - ProductSKU
 //   - Status
 //   - Fingerprint
 //   - IssuerName
 //   - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
```

```
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
 middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}
```

```
func newServiceMetadataMiddleware_opListReceivedLicenses(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
 }
}
```

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```
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
        "smithy.api#error": "client"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
      "type": "structure",
      "members": {
        "DirectoryId": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
```

```
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
 "<p>Details about an Active Directory identity provider.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Associates the user to an EC2 instance to utilize user-based
subscriptions.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related
costs will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing
status) in Amazon Web Services Billing. For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n
        monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
                "code": 200,
```

```
            "method": "POST",
            "uri": "/user/AssociateUser"
          },
          "smithy.api#idempotent": {}
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
        "type": "structure",
        "members": {
          "Username": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
              "smithy.api#required": {}
            }
          },
          "InstanceId": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The ID of the
EC2 instance, which provides user-based subscriptions.</p>",
              "smithy.api#required": {}
            }
          },
          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
              "smithy.api#documentation": "<p>The identity provider of the user.</p>",
              "smithy.api#required": {}
            }
          },
          "Domain": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
        "type": "structure",
        "members": {
          "InstanceUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
             "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
              "smithy.api#required": {}
            }
```

```
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
        "type": "integer"
    },
    "com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request couldn't be completed because it conflicted with the current
state of the\n      resource.</p>",
            "smithy.api#error": "server"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider":
 {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
```

"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deregisters the identity provider from providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/DeregisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
"type": "operation",

"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Disassociates the user from an EC2 instance providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/DisassociateUser"
},
"smithy.api#idempotent": {}
}

},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",

"smithy.api#required": {}
}
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"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
}
},

"com.amazonaws.licensemanagerusersubscriptions#Filter": {
"type": "structure",
"members": {
"Attribute": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of an attribute to use as a filter. "
}

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            },
            "Operation": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The type of search (For example, eq, geq, leq)</p>"
                }
            },
            "Value": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Value of the filter.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A filter name and value pair that is used
 to return more specific results from a describe\n      operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n      attributes, or IDs.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#FilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
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    "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
        "type": "union",
        "members": {
            "ActiveDirectoryIdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that details an Active Directory identity provider.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
 "<p>Details about an identity provider.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
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"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " An object that details the registered identity providers product related configuration\n settings such as the subnets to provision VPC endpoints. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of an identity provider. ",
"smithy.api#required": {}
}
},
"FailureMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The failure message associated with an identity provider. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
}
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"com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
"type": "structure",
"members": {
"InstanceId": {

"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of an EC2 instance resource. ",
"smithy.api#required": {}
}
},
"Products": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
"traits": {
"smithy.api#documentation": " A list of provided user-based subscription products. ",
"smithy.api#required": {}
}
},
"LastStatusCheckDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date of the last status check. "
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for an EC2 instance. "
}

}
},
"traits": {
"smithy.api#documentation": " Describes an EC2 instance providing user-based subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
"type": "structure",

"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits":
{
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a user associated with an EC2 instance. ",
"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for users of an EC2 instance. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"AssociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was associated with an EC2 instance. "
}

```
            },
            "DisassociationDate": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The date a user was disassociated from an EC2 instance.</p>"
                }
            }

    },
        "traits": {
            "smithy.api#documentation": "<p>Describes users of an EC2 instance providing user-based
subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
            "smithy.api#error": "server"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
        "type": "service",

     "version": "2018-05-10",
        "operations": [
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                "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
```

```
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

    },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
        }
      ],
      "traits": {
        "aws.api#service": {
          "sdkId": "License Manager User Subscriptions",
          "arnNamespace": "license-manager-user-subscriptions",
          "cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
        },
        "aws.auth#sigv4": {
          "name": "license-manager-user-subscriptions"
         },
        "aws.protocols#restJson1": {},
        "smithy.api#cors": {
          "additionalAllowedHeaders": [
            "*",
            "content-type",
            "x-amz-content-sha256",
            "x-amz-user-agent",
            "x-amzn-platform-id",
            "x-amzn-trace-id",
            "content-length",
            "x-api-key",
            "authorization",
            "x-amz-date",
            "x-amz-security-token",
            "Access-Control-Allow-Headers",
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"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"

]
},
"smithy.api#documentation": " With License Manager, you can create user-based subscriptions to utilize licensed software with\n a per user subscription fee on Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager User Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}

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"rules": [
{

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"conditions": [
    {
        "fn": "isSet",
        "argv": [
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                "ref": "Endpoint"
            }
        ]
    }
],
"type": "tree",
"rules": [
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseFIPS"
                    },

                true
                ]
            }
        ],
        "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
        "type": "error"
    },
    {
        "conditions": [
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                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseDualStack"
                    },
                    true
                ]
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        ],

"error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
        "type": "error"
    },
    {
        "conditions": [],
        "endpoint": {
            "url": {
```

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                    "ref": "Endpoint"
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                "properties": {},
                "headers": {}
            },
            "type": "endpoint"
        }
    ]
},
{
    "conditions": [
        {
            "fn": "isSet",
            "argv": [

{
                    "ref": "Region"
                }
            ]
        }
    ],
    "type": "tree",
    "rules": [
        {
            "conditions": [
                {
                    "fn": "aws.partition",
                    "argv": [
                        {
                            "ref": "Region"
                        }
                    ],
                    "assign": "PartitionResult"
                }
            ],
            "type": "tree",

"rules": [
                {
                    "conditions": [
                        {
                            "fn": "booleanEquals",
                            "argv": [
                                {
                                    "ref": "UseFIPS"
                                },
                                true
                            ]
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```
                    },
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseDualStack"

                            },
                            true
                        ]
                    }
                ],
                "type": "tree",
                "rules": [
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                        "conditions": [
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                                "fn": "booleanEquals",
                                "argv": [
                                    true,
                                    {
                                        "fn": "getAttr",

"argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },
                                            "supportsFIPS"
                                        ]
                                    }
                                ]
                            },
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    true,
                                    {

"fn": "getAttr",
                                        "argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },
                                            "supportsDualStack"
                                        ]
                                    }
                                ]
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```

```
                    ],
                    "type": "tree",
                    "rules": [
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            "conditions": [],
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fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                "properties": {},
                                "headers": {}
                            },
                            "type": "endpoint"
                        }
                    ]
                },
                {
                    "conditions": [],
                    "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
                     "type": "error"
                }
            ]
        },
        {
            "conditions": [
                {
                    "fn": "booleanEquals",
                    "argv": [
                        {
                            "ref": "UseFIPS"
                        },
                        true
                    ]
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                            "argv": [
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                                    "fn": "getAttr",
                                    "argv": [
```

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                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsFIPS"

                                ]
                                    }
                                ]
                            }
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                        "type": "tree",
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                                "conditions": [],
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fips.{Region}.{PartitionResult#dnsSuffix}",
                                    "properties": {},
                                    "headers": {}

            },
                                "type": "endpoint"
                            }
                        ]
                    },
                    {
                        "conditions": [],
                        "error": "FIPS is enabled but this partition does not support FIPS",
                        "type": "error"
                    }
                ]
            },
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseDualStack"
                            },
                            true
                        ]
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                "rules": [
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                        "conditions": [
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                    {
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                      "argv": [
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                            "argv": [
                              {
                                "ref": "PartitionResult"
                              },
                              "supportsDualStack"
                            ]
                        }
                      ]
                    }
                  ],
                  "type": "tree",
                  "rules": [
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subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                        "properties": {},
                        "headers": {}
                      },
                      "type": "endpoint"
                    }
                  ]
                },
                {
                  "conditions": [],
                  "error": "DualStack is enabled but this partition does
 not support DualStack",
                  "type": "error"
                }
              ]
            },
            {
              "conditions": [],
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                "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                "properties": {},
                "headers": {}
              },
```

```
                "type": "endpoint"
              }
            ]
          }
        ]
      },
      {
        "conditions":
[],
        "error": "Invalid Configuration: Missing Region",
        "type": "error"
      }
    ]
  },
  "smithy.rules#endpointTests": {
    "testCases": [
      {
        "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
          }
        },
        "params": {
          "Region": "us-east-1",
          "UseFIPS": true,
          "UseDualStack": true
        }
      },
      {
        "documentation":
"For region us-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
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        "params": {
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          "UseDualStack": false
        }
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        "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
        "expect": {
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            "url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
```

```
                }
            },

        "params": {
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                "UseDualStack": true
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        },
        {
            "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region cn-north-1 with
 FIPS enabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
                }
            },
            "params": {
                "Region": "cn-north-1",
                "UseFIPS": true,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
                }
            },

    "params": {
                "Region": "cn-north-1",
                "UseFIPS": true,
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"UseDualStack": false
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},
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"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
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}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
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"documentation": "For region cn-north-1
with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
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with FIPS disabled and DualStack enabled",
"expect": {
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"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
}
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"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
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"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},

{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect":
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"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
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"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack":
true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but
this partition does not support one or both"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,

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            "UseDualStack": true
        }
    },
    {
        "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
            }
        },
        "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": true,
            "UseDualStack": false
        }

},
    {
        "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
        "expect": {
            "error": "DualStack is enabled but this partition does not support DualStack"
        },
        "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": false,
            "UseDualStack": true
        }
    },
    {
        "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
            }
        },
         "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
        "expect": {
            "endpoint": {
                "url": "https://example.com"
            }
        },
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"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{

"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true,
"Endpoint": "https://example.com"
}
},
{
"documentation": "Missing region",
"expect": {

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                "error": "Invalid Configuration: Missing Region"
            }
        }
    ],
    "version": "1.0"
  }
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
    }
  ],
  "traits": {
    "smithy.api#documentation": "<p>Lists the identity providers for user-based subscriptions.</p>",
    "smithy.api#http": {
      "code": 200,
      "method": "POST",
      "uri": "/identity-provider/ListIdentityProviders"
    },
    "smithy.api#paginated":
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{
            "inputToken": "NextToken",
            "outputToken": "NextToken",
            "pageSize": "MaxResults",
            "items": "IdentityProviderSummaries"
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
        "type": "structure",
        "members": {
          "MaxResults": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
            "traits": {
              "smithy.api#documentation": " Maximum number of results to return in a single call. "
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": " Token for the next set of results. "
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
{
        "type": "structure",
        "members": {
          "IdentityProviderSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
            "traits": {
              "smithy.api#documentation": " Metadata that describes the list identity providers operation. ",
              "smithy.api#required": {}
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": " Token for the next set of results. "
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"

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        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/instance/ListInstances"
            },
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
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"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
"type": "structure",
"members": {
"InstanceSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list instances operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

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            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the user-based subscription products available from an identity
provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListProductSubscriptions"
            },
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "ProductUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name
 of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
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"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {

"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
"type": "structure",
"members": {
"ProductUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list product subscriptions operation. "
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target":
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists user associations for an identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/ListUserAssociations"
},
"smithy.api#paginated":
{
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "InstanceUserSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {

"type": "structure",
"members": {
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
"type": "structure",
"members": {
"InstanceUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list user association operation. "
}

```
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
    "type": "structure",
    "members": {

    "Username": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                "smithy.api#required": {}
            }
        },
        "Product": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                "smithy.api#required": {}
            }
        },
        "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
                "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                "smithy.api#required": {}
            }

},
        "Status": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The status of a product for a user.</p>",
                "smithy.api#required": {}
            }
        },
        "StatusMessage": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The status message for a product for a user.</p>"
            }
        },
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"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"SubscriptionStartDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The
start date of a subscription. "
}
},
"SubscriptionEndDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The end date of a subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " The summary of the user-based subscription products for a user. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},

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            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Registers an identity provider for user-based subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/RegisterIdentityProvider"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity
provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Settings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
                "traits": {
                    "smithy.api#documentation": "<p>The registered identity providers product related configuration
settings such as the\n      subnets to provision VPC endpoints.</p>"
                }
            }
```

```
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
        "type": "structure",
        "members": {
            "IdentityProviderSummary":
 {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the results of an identity provider
operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The resource couldn't be found.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 404
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
        "type": "string",

   "traits": {
            "smithy.api#length": {
                "min": 5,
                "max": 200
            },
            "smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
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"smithy.api#documentation": " The request failed because a service quota is exceeded. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Settings": {
"type": "structure",
"members": {
"Subnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation":
" The subnets defined for the registered identity provider. ",
"smithy.api#length": {
"min": 1
},
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID that allows inbound TCP port 1688
communication between resources in\n your VPC and the VPC endpoint for activation servers. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings
such as the\n subnets to provision VPC endpoints, and the security group ID that
is associated with the VPC\n endpoints. The security group should permit inbound TCP port 1688
communication from resources\n in the VPC. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"

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            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Starts a product subscription for a user with the specified identity provider.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related costs will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing.
 For more information, see <a href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n        monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/StartProductSubscription"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
```

```
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
        "type": "structure",
         "members": {
            "ProductUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the start product subscription
operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

    },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
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            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
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            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Stops a product subscription for a user with the specified identity
provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/StopProductSubscription"
            }
        }
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    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required":
 {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
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```
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
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    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
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        "members": {
            "ProductUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
                "traits": {
                    "smithy.api#documentation":
"<p>Metadata that describes the start product subscription operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
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    "com.amazonaws.licensemanagerusersubscriptions#StringList": {
        "type": "list",
        "member": {
            "target": "smithy.api#String"
        }
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    "com.amazonaws.licensemanagerusersubscriptions#Subnet": {
        "type": "string",
        "traits": {
            "smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
        }
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    "com.amazonaws.licensemanagerusersubscriptions#Subnets": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
            "message": {

             "target": "smithy.api#String"
            }
        },
        "traits": {
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"smithy.api#documentation": " The request was denied because of request throttling. Retry the request. ",
"smithy.api#error": "client"
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"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
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"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
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"errors": [
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"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
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{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
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"traits": {
"smithy.api#documentation": " Updates additional product configuration settings for the registered identity\n provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/UpdateIdentityProviderSettings"
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"smithy.api#idempotent": {}
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"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
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"members": {
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"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#required": {}
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"Product": {

"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
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"UpdateSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings. You can\n update any combination of settings in a single operation such as the: \n \n \n Subnets which you want to add to provision VPC endpoints. \n \n \n Subnets which you want to remove the VPC endpoints from. \n \n \n Security group ID which permits traffic to the VPC endpoints. \n \n ",
"smithy.api#required": {}
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"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#required": {}
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"com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
"type": "structure",
"members": {
"AddSubnets": {

"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets in which License Manager will create a VPC endpoint for products that\n require connectivity to activation servers. ",
"smithy.api#required": {}
}
},
"RemoveSubnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets to remove. ",
"smithy.api#required": {}
}

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            },
            "SecurityGroupId": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
                "traits": {
                    "smithy.api#documentation": "<p>A security group ID
 that allows inbound TCP port 1688 communication between resources in\n      your VPC and the VPC endpoints for
activation servers.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Updates the registered identity providers product related configuration
settings such as\n      the subnets to provision VPC endpoints.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
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        "members": {
            "message": {
                "target": "smithy.api#String"
            }
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        "traits": {
            "smithy.api#documentation": "<p>A parameter is not valid.</p>",
            "smithy.api#error": "client"
        }
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  "metadata": {
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            "namespace": "*"
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        {
            "id": "HttpResponseCodeSemantics",
            "namespace": "*"
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            "id": "PaginatedTrait",
            "namespace": "*"
        },
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            "id": "HttpHeaderTrait",
            "namespace": "*"
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            "id": "HttpUriConflict",
            "namespace": "*"
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            "id": "Service",
            "namespace": "*"
        }
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"shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
        "type": "service",
        "version": "2018-08-01",
        "operations": [
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                "target": "com.amazonaws.licensemanager#CheckInLicense"
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                "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
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                "target": "com.amazonaws.licensemanager#CheckoutLicense"
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                "target": "com.amazonaws.licensemanager#CreateGrant"
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                "target": "com.amazonaws.licensemanager#CreateGrantVersion"
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                "target": "com.amazonaws.licensemanager#CreateLicense"
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                "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
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                "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
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            {
                "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
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"target": "com.amazonaws.licensemanager#CreateLicenseVersion"
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"target": "com.amazonaws.licensemanager#CreateToken"
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"target": "com.amazonaws.licensemanager#DeleteLicense"
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"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
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"target": "com.amazonaws.licensemanager#DeleteToken"
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"target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

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"target": "com.amazonaws.licensemanager#GetGrant"
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"target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
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"target": "com.amazonaws.licensemanager#GetLicenseUsage"
},
{
"target": "com.amazonaws.licensemanager#GetServiceSettings"
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"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
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"target": "com.amazonaws.licensemanager#ListDistributedGrants"
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"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
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"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
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"target": "com.amazonaws.licensemanager#ListLicenses"
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"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
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"target": "com.amazonaws.licensemanager#ListReceivedGrants"
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"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization"
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"target": "com.amazonaws.licensemanager#ListResourceInventory"
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"target": "com.amazonaws.licensemanager#ListTagsForResource"
},
{
"target": "com.amazonaws.licensemanager#ListTokens"

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                "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
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                "target": "com.amazonaws.licensemanager#RejectGrant"
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                "target": "com.amazonaws.licensemanager#TagResource"
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            {
                "target": "com.amazonaws.licensemanager#UntagResource"
            },
            {
                "target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
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            {
                "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
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            {
                "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
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            {
                "target": "com.amazonaws.licensemanager#UpdateServiceSettings"
            }
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        "traits": {
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                "sdkId": "License Manager",
                "arnNamespace": "license-manager",
                "cloudFormationName": "LicenseManager",
                "cloudTrailEventSource": "licensemanager.amazonaws.com",
                "endpointPrefix": "license-manager"
            },
            "aws.auth#sigv4": {
                "name": "license-manager"
            },
            "aws.protocols#awsJson1_1": {},
            "smithy.api#documentation": "<p>License Manager makes it easier to manage licenses from software
vendors across multiple \n        Amazon Web Services accounts and on-premises servers.</p>",
            "smithy.api#title": "AWS License Manager",
            "smithy.api#xmlNamespace": {
                "uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
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            "smithy.rules#endpointRuleSet": {
                "version": "1.0",
                "parameters": {
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            "Region": {
              "builtIn": "AWS::Region",
              "required": false,
              "documentation": "The AWS region used to dispatch the request.",
              "type": "String"
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            "UseDualStack": {
              "builtIn": "AWS::UseDualStack",
              "required": true,
              "default": false,
              "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
              "type": "Boolean"
            },
            "UseFIPS": {
              "builtIn": "AWS::UseFIPS",
              "required": true,
              "default": false,
              "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
              "type": "Boolean"
            },
            "Endpoint": {
              "builtIn": "SDK::Endpoint",
              "required": false,
              "documentation": "Override the endpoint used to send this request",
              "type": "String"
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                  "argv": [
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                      "ref": "Endpoint"
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                  "conditions": [
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            "type": "error"
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                    "ref": "UseDualStack"
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                ]
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            "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
            "type": "error"
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            "conditions": [],
            "endpoint": {
              "url": {
                "ref": "Endpoint"
              },
              "properties": {},
              "headers": {}
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            "type": "endpoint"
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            "argv": [
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                "ref": "Region"
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                    "argv": [
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"UseFIPS"
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                                    "ref": "UseDualStack"
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"ref": "PartitionResult"
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"supportsFIPS"
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"fn": "booleanEquals",
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"argv": [
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"ref": "PartitionResult"
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"supportsDualStack"
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"type": "tree",
"rules": [
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"conditions": [],
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fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}

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"type": "endpoint"
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"conditions": [],

"error": "FIPS and DualStack are enabled, but this partition does not support one or both",
"type": "error"
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"argv": [
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"argv": [
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partition does not support FIPS",
"type": "error"
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"fn": "booleanEquals",
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"argv": [
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"supportsDualStack"
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manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}

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"type": "endpoint"
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"error": "DualStack is enabled but this partition does not support DualStack",
"type": "error"
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"conditions": [],
"endpoint": {
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"properties": {},
"headers": {}
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"type": "endpoint"
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"error": "Invalid Configuration: Missing Region",
"type": "error"
}
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"smithy.rules#endpointTests": {
"testCases": [
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"documentation": "For region af-south-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint":

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"url": "https://license-manager.af-south-1.amazonaws.com"
}
},
"params": {
"Region": "af-south-1",
"UseFIPS": false,
"UseDualStack": false
}
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"documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-east-1.amazonaws.com"
}
},
"params": {
"Region": "ap-east-1",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-northeast-1.amazonaws.com"
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"params": {
"Region": "ap-northeast-1",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-northeast-2.amazonaws.com"
}
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"params": {
"Region": "ap-northeast-2",
"UseFIPS": false,
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}

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          "expect": {
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            }
          },
          "params": {
            "Region": "ap-northeast-3",
            "UseFIPS": false,
            "UseDualStack": false
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        {
          "documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ap-south-1.amazonaws.com"
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          "params": {
            "Region": "ap-south-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
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          "documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ap-southeast-1.amazonaws.com"

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          "params": {
            "Region": "ap-southeast-1",
            "UseFIPS": false,
            "UseDualStack": false
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          "documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ap-southeast-2.amazonaws.com"
            }
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            },
            "params": {
                "Region": "ap-southeast-2",
                "UseFIPS": false,
                "UseDualStack": false
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        },
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"documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.ap-southeast-3.amazonaws.com"
                }
            },
            "params": {
                "Region": "ap-southeast-3",
                "UseFIPS": false,
                "UseDualStack": false
            }
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            "documentation": "For region ca-central-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.ca-central-1.amazonaws.com"
                }
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         "params": {
                "Region": "ca-central-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
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            "documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.eu-central-1.amazonaws.com"
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            "params": {
                "Region": "eu-central-1",
                "UseFIPS": false,
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"expect": {
"endpoint": {
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"params": {
"Region": "eu-north-1",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-south-1.amazonaws.com"
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"params": {
"Region":
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"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-west-1.amazonaws.com"
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"params": {
"Region": "eu-west-1",
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"UseDualStack": false
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"documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
"expect": {

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          "UseFIPS": false,
          "UseDualStack": false
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        "documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager.sa-east-1.amazonaws.com"
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        },
        "params": {
          "Region": "sa-east-1",
          "UseFIPS": false,
          "UseDualStack": false
        }
      },
      {
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"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
}

},
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-east-2.amazonaws.com"
}

},
"params": {
"Region": "us-east-2",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-east-2.amazonaws.com"
}
},
"params": {

"Region": "us-east-2",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region
us-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-west-1.amazonaws.com"
}
},
"params": {
"Region": "us-west-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-west-1.amazonaws.com"
}
},
"params": {

"Region": "us-west-1",
"UseFIPS": true,
"UseDualStack": false
}
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{
"documentation": "For region us-west-2 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-west-2.amazonaws.com"
}
},
"params": {
"Region": "us-west-2",
"UseFIPS": false,
"UseDualStack": false
}
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{
"documentation": "For region us-west-2 with FIPS enabled and DualStack disabled",

"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-west-2.amazonaws.com"
}
},
"params": {
"Region": "us-west-2",
"UseFIPS": true,
"UseDualStack": false
}
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{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,

"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url":
"https://license-manager.cn-north-1.amazonaws.com.cn"
}
},
"params": {

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            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
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        "documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
            }
        },
        "params": {
            "Region": "cn-northwest-1",
            "UseFIPS": false,
            "UseDualStack": false

}
    },
    {
        "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
            }
        },
        "params": {
            "Region": "cn-north-1",
            "UseFIPS": true,
            "UseDualStack": true
        }
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    {
        "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
             }
        },
        "params": {
            "Region": "cn-north-1",
            "UseFIPS": true,
            "UseDualStack": false
        }
    },
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        "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
        "expect": {
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            "endpoint": {
                "url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
            }
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        "params": {
            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": true
        }
    },

{
        "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.us-gov-east-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
            }
         },
        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": true,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.us-gov-west-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "us-gov-west-1",
            "UseFIPS": false,
            "UseDualStack": false
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                }
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                "documentation":
"For region us-gov-west-1 with FIPS enabled and DualStack disabled",
                "expect": {
                    "endpoint": {
                        "url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
                    }
                },
                "params": {
                    "Region": "us-gov-west-1",
                    "UseFIPS": true,
                    "UseDualStack": false
                }
            },
            {
                "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
                "expect": {
                    "endpoint": {
                        "url": "https://license-manager-fips.us-gov-east-1.api.aws"
                    }
                },

    "params": {
                    "Region": "us-gov-east-1",
                    "UseFIPS": true,
                    "UseDualStack": true
                }
            },
            {
                "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
                "expect": {
                    "endpoint": {
                        "url": "https://license-manager.us-gov-east-1.api.aws"
                    }
                },
                "params": {
                    "Region": "us-gov-east-1",
                    "UseFIPS": false,
                    "UseDualStack": true
                }
            },
            {
                "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack
disabled",
                "expect": {
                    "endpoint": {
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"url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled
but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {

"endpoint": {
"url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},

{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
}
},

"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{

"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,

"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error":
"Invalid Configuration: Dualstack and custom endpoint are not supported"
},
"params": {

"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true,
"Endpoint": "https://example.com"
}
},
{
"documentation": "Missing region",
"expect": {
"error": "Invalid Configuration: Missing Region"
}
}
],
"version": "1.0"
}
}
},
"com.amazonaws.licensemanager#AcceptGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#AcceptGrantRequest"

},
"output": {
"target": "com.amazonaws.licensemanager#AcceptGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"

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    }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant
ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
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"com.amazonaws.licensemanager#AccessDeniedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {

"code": "ServiceAccessDenied",
"httpResponseCode": 401
},
"smithy.api#documentation": " Access to resource denied. ",
"smithy.api#error": "client",
"smithy.api#httpError": 401
}
},
"com.amazonaws.licensemanager#ActivationOverrideBehavior": {
"type": "enum",
"members": {
"DISTRIBUTED_GRANTS_ONLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
}
},
"ALL_GRANTS_PERMITTED_BY_ISSUER": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
}
}
}
},
"com.amazonaws.licensemanager#AllowedOperation": {

"type": "enum",
"members": {
"CREATE_GRANT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CreateGrant"
}
},
"CHECKOUT_LICENSE": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "CheckoutLicense"
}
},
"CHECKOUT_BORROW_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckoutBorrowLicense"
}
},
"CHECK_IN_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckInLicense"
}
},
"EXTEND_CONSUMPTION_LICENSE":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ExtendConsumptionLicense"
}
},
"LIST_PURCHASED_LICENSES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ListPurchasedLicenses"
}
},
"CREATE_TOKEN": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CreateToken"
}
}
}
},
"com.amazonaws.licensemanager#AllowedOperationList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#AllowedOperation"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max":
7
}
}

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    },
    "com.amazonaws.licensemanager#Arn": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 2048
            },
            "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-
z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
        }
    },
    "com.amazonaws.licensemanager#ArnList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Arn"
        }
    },
    "com.amazonaws.licensemanager#AuthorizationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError":
 {
                "code": "AuthorizationFailure",
                "httpResponseCode": 403
            },
            "smithy.api#documentation": "<p>The Amazon Web Services user account does not have permission to
perform the action. Check the IAM\n        policy associated with this account.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 403
        }
    },
    "com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
        "type": "structure",
        "members": {
            "LastRunTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
                }
            }
        },
        "traits": {
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"smithy.api#documentation": " Describes automated discovery. "
}
},

"com.amazonaws.licensemanager#Boolean": {
"type": "boolean",
"traits": {
"smithy.api#default": false
}
},
"com.amazonaws.licensemanager#BorrowConfiguration": {
"type": "structure",
"members": {
"AllowEarlyCheckIn": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether early check-ins are allowed. ",
"smithy.api#required": {}
}
},
"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the borrow configuration, in minutes. ",
"smithy.api#required": {}
}
}

},
"traits": {
"smithy.api#documentation": " Details about a borrow configuration. "
}
},
"com.amazonaws.licensemanager#BoxBoolean": {
"type": "boolean"
},
"com.amazonaws.licensemanager#BoxInteger": {
"type": "integer"
},
"com.amazonaws.licensemanager#BoxLong": {
"type": "long"
},
"com.amazonaws.licensemanager#CheckInLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"

},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks in the specified license. Check in a license when it is no longer in use. "
}
},
"com.amazonaws.licensemanager#CheckInLicenseRequest":
{
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " License beneficiary. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CheckInLicenseResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicense":
{
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{
"target":
"com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{

"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks out the specified license for offline use. "
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
"type": "structure",
"members":
{
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The license must use the borrow consumption configuration. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. Partial checkouts are not supported. ",
"smithy.api#required": {}
}
},
"DigitalSignatureMethod": {
"target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
"traits": {
"smithy.api#documentation": " Digital signature method. The possible value is JSON Web Signature (JWS) algorithm PS384.\n For more information, see RFC 7518 Digital Signature with RSASSA-PSS. ",
"smithy.api#required": {}
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "

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            }
          },
          "CheckoutMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
              "smithy.api#documentation": "<p>Information about constraints.</p>"
            }
          },
          "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientToken",
            "traits": {
              "smithy.api#documentation":
"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
          },
          "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License consumption token.</p>"
            }
          },
          "EntitlementsAllowed":
{
            "target": "com.amazonaws.licensemanager#EntitlementDataList",
            "traits": {
              "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
            }
          },
          "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Node ID.</p>"
            }
```

```
            },
            "SignedToken": {
                "target": "com.amazonaws.licensemanager#SignedToken",
                "traits": {
                    "smithy.api#documentation": "<p>Signed token.</p>"
                }
            },
            "IssuedAt": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license checkout
is issued.</p>"
                }
            },
            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
                }
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license.</p>\n        <note>\n            <p>If the
 account that created the license is the same that is performing the check out, you must\n            specify the account
 as the beneficiary.</p>\n        </note>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutLicenseRequest": {
        "type": "structure",
        "members": {
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product
 SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "CheckoutType": {
                "target": "com.amazonaws.licensemanager#CheckoutType",
                "traits": {
                    "smithy.api#documentation": "<p>Checkout type.</p>",
                    "smithy.api#required": {}
                }
            },
```

"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Key fingerprint identifying the license. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. ",

"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
"type": "structure",
"members": {
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. "

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            }
        },
        "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
            }
        },
        "EntitlementsAllowed": {
            "target": "com.amazonaws.licensemanager#EntitlementDataList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
            }
        },
         "SignedToken": {
            "target": "com.amazonaws.licensemanager#SignedToken",
            "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
            }
        },
        "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        },
        "IssuedAt": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
            }
        },
        "Expiration": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date and
time at which the license checkout expires.</p>"
            }
        },
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
```

```
    }
},
"com.amazonaws.licensemanager#CheckoutType": {
    "type": "enum",
    "members": {
        "PROVISIONAL": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PROVISIONAL"
            }
        },
        "PERPETUAL": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PERPETUAL"
            }
        }
    }
},
"com.amazonaws.licensemanager#ClientRequestToken": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 36
        }
    }
},
"com.amazonaws.licensemanager#ClientToken": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 2048
        },
        "smithy.api#pattern": "^\\S+$"
    }
},
"com.amazonaws.licensemanager#ConflictException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "ConflictException",
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"httpResponseCode":
409
},
"smithy.api#documentation": " There was a conflict processing the request. Try your request again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 409
}
},
"com.amazonaws.licensemanager#ConsumedLicenseSummary": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Resource type of the resource consuming a license. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}
},

"traits": {
"smithy.api#documentation": " Details about license consumption. "
}
},
"com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
}
},
"com.amazonaws.licensemanager#ConsumptionConfiguration": {
"type": "structure",
"members": {
"RenewType": {
"target": "com.amazonaws.licensemanager#RenewType",
"traits": {
"smithy.api#documentation": " Renewal frequency. "
}
},
"ProvisionalConfiguration": {
"target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
"traits": {

"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"BorrowConfiguration": {
"target": "com.amazonaws.licensemanager#BorrowConfiguration",
"traits": {
"smithy.api#documentation": " Details about a borrow configuration. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a consumption configuration. "
}
},
"com.amazonaws.licensemanager#CreateGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target":
"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a grant for the specified license. A grant shares the use of

license\n entitlements with a specific Amazon Web Services account, an organization, or an\n organizational unit (OU). For more
information, see Granted licenses in License Manager in the License Manager User Guide. "
}
},
"com.amazonaws.licensemanager#CreateGrantRequest": {
"type": "structure",
"members": {
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}

}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Principals": {
"target": "com.amazonaws.licensemanager#PrincipalArnList",
"traits": {
"smithy.api#documentation": " The grant principals. You can specify one of the following as an Amazon Resource Name\n (ARN): \n \n \n An Amazon Web Services account, which includes only the account specified. \n \n \n \n \n An organizational unit (OU), which includes all accounts in the OU. \n \n \n \n
\n An organization, which will include all accounts across your organization. \n \n ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

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                "smithy.api#documentation": "<p>Home Region of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "AllowedOperations": {
            "target": "com.amazonaws.licensemanager#AllowedOperationList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed operations for the grant.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},

"com.amazonaws.licensemanager#CreateGrantResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateGrantVersion":
{
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
```

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        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
             },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information,
see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",

    "smithy.api#required": {}
                }
            },
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
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"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the grant. "
}
},
"Options": {
"target": "com.amazonaws.licensemanager#Options",
"traits": {
"smithy.api#documentation": " The options specified for the grant. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
"type": "structure",
"members": {

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            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>New version of the grant.</p>"
                }
            }
        },
        "traits":
{
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license configuration.</p>\n        <p>A license configuration is an abstraction of a customer license agreement that can be\n        consumed and enforced by License Manager. Components include specifications for the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n        Dedicated Instance, Dedicated Host, or
 all of these), license affinity  to host (how long a \n        license must be associated with a host), and the number of licenses purchased and used.</p>"
        }
```

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    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Name of the license configuration.</p>",
            "smithy.api#required": {}
          }
        },
        "Description": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Description of the license configuration.</p>"
          }
        },
        "LicenseCountingType": {
          "target": "com.amazonaws.licensemanager#LicenseCountingType",
           "traits": {
            "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
            "smithy.api#required": {}
          }
        },
        "LicenseCount": {
          "target": "com.amazonaws.licensemanager#BoxLong",
          "traits": {
            "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
          }
        },
        "LicenseCountHardLimit": {
          "target": "com.amazonaws.licensemanager#BoxBoolean",
          "traits": {
            "smithy.api#documentation": "<p>Indicates whether hard or soft license enforcement is used.
Exceeding a hard limit\n        blocks the launch of new instances.</p>"
          }
        },
        "LicenseRules": {
          "target":
 "com.amazonaws.licensemanager#StringList",
          "traits": {
            "smithy.api#documentation": "<p>License rules. The syntax is #name=value (for example,
#allowedTenancy=EC2-DedicatedHost). The available rules \n        vary by dimension, as follows.</p>\n
<ul>\n          <li>\n            <p>\n              <code>Cores</code> dimension: <code>allowedTenancy</code> |\n
          <code>licenseAffinityToHost</code> |\n            <code>maximumCores</code> |
<code>minimumCores</code>\n            </p>\n          </li>\n          <li>\n            <p>\n
<code>Instances</code> dimension: <code>allowedTenancy</code> | \n            <code>maximumCores</code> |
<code>minimumCores</code> |\n            <code>maximumSockets</code> | <code>minimumSockets</code> |\n
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        <code>maximumVcpus</code> | <code>minimumVcpus</code>\n            </p>\n          </li>\n
<li>\n
  <p>\n                <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n
<code>licenseAffinityToHost</code> |\n            <code>maximumSockets</code> |
<code>minimumSockets</code>\n            </p>\n          </li>\n          <li>\n            <p>\n
<code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n
<code>honorVcpuOptimization</code> | \n            <code>maximumVcpus</code> |
<code>minimumVcpus</code>\n            </p>\n          </li>\n        </ul>\n        <p>The unit for
<code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n        values for
<code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n
<code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n
<code>True</code> and <code>False</code>.</p>"
            }
          },

  "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
              "smithy.api#documentation": "<p>Tags to add to the license configuration.</p>"
            }
          },
          "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
          },
          "ProductInformationList": {
            "target": "com.amazonaws.licensemanager#ProductInformationList",
            "traits": {
              "smithy.api#documentation": "<p>Product information.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse":
 {
        "type": "structure",
        "members": {
          "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
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            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {

                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
                    "smithy.api#required": {}
```

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                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting
from. \n\n        For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            },
            "DestinationLicenseContext":
 {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting to.
For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

       "traits": {
                    "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
        },
```

"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a report generator. "
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"ReportGeneratorName":
{
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types an be

generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}

}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " Defines the type of license configuration the report generator tracks. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}

```
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
      "type": "structure",
      "members": {
        "LicenseManagerReportGeneratorArn":
{
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the new report
generator.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#CreateLicenseRequest": {
      "type": "structure",
      "members": {
        "LicenseName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License name.</p>",
            "smithy.api#required": {}
          }
        },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product
name.</p>",
            "smithy.api#required": {}
          }
        },
        "ProductSKU": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product SKU.</p>",
            "smithy.api#required": {}
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#Issuer",
          "traits": {
            "smithy.api#documentation": "<p>License issuer.</p>",
            "smithy.api#required": {}
          }
```

```
            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Home Region for the license.</p>",
                    "smithy.api#required": {}

    }
            },
            "Validity": {
                "target": "com.amazonaws.licensemanager#DatetimeRange",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",
                    "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>",
                    "smithy.api#required": {}
                }
             },
            "ConsumptionConfiguration": {
                "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n          running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n          usage.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
```

"traits": {
"smithy.api#documentation":
" Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
             },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target":
"com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

"smithy.api#documentation": " Product name. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits":
{
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}

```
            },

  "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>",
                    "smithy.api#required": {}
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>"
                }
            }
        },
        "traits": {

 "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>License ARN.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>New version of the license.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>"
```

```
            }
          }
        },
        "traits": {
          "smithy.api#output":
{}
        }
      },
      "com.amazonaws.licensemanager#CreateToken": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateTokenRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateTokenResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#RedirectException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },

      {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Creates a long-lived token.</p>\n        <p>A refresh token is a JWT
token used to get an access token. With an access token,\n        you can call AssumeRoleWithWebIdentity to get
role credentials that you can use to \n        call License Manager to manage the specified license.</p>"
        }
```

```
    },
    "com.amazonaws.licensemanager#CreateTokenRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits":
 {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The ARN is
mapped to the aud claim of the\n         JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "RoleArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the IAM roles to embed in the
token. \n         License Manager does not check whether the roles are in use.</p>"
                }
            },
            "ExpirationInDays": {
                "target": "com.amazonaws.licensemanager#Integer",
                "traits": {
                    "smithy.api#documentation": "<p>Token expiration, in days, counted from token creation. The
default is 365 days.</p>"
                }
            },
            "TokenProperties": {
                 "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Data specified by the caller to be included in the JWT token. The
data is mapped\n         to the amr claim of the JWT token.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Idempotency token, valid for 10 minutes.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateTokenResponse": {
        "type": "structure",
```

```
    "members": {
      "TokenId": {
        "target": "com.amazonaws.licensemanager#String",

       "traits": {
          "smithy.api#documentation": "<p>Token ID.</p>"
        }
      },
      "TokenType": {
        "target": "com.amazonaws.licensemanager#TokenType",
        "traits": {
          "smithy.api#documentation": "<p>Token type.</p>"
        }
      },
      "Token": {
        "target": "com.amazonaws.licensemanager#TokenString",
        "traits": {
          "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#DateTime": {
    "type": "timestamp"
  },
  "com.amazonaws.licensemanager#DatetimeRange": {
    "type": "structure",
    "members": {
      "Begin": {
         "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
          "smithy.api#documentation": "<p>Start of the time range.</p>",
          "smithy.api#required": {}
        }
      },
      "End": {
        "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
          "smithy.api#documentation": "<p>End of the time range.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
    }
```

```
    },
    "com.amazonaws.licensemanager#DeleteGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes
the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "StatusReason": {
```

"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " The Status reason for the delete request. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the
grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation":
" Grant version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteLicense": {
"type": "operation",
"input": {

"target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"

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            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license configuration.</p>\n        <p>You cannot
delete a license configuration that is in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
        "type": "structure",
        "members":
 {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
        },
        "output": {
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"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified report generator. \n This action deletes the report generator, which stops it from generating future reports.\n The action cannot be reversed. It has no effect on the previous reports from this generator. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to be deleted. ",
"smithy.api#required": {}
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. ",
"smithy.api#required":
{}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseResponse": {
"type": "structure",
"members": {
"Status": {
"target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"DeletionDate": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date when the license is deleted. "
}
}

```
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteToken": {
        "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },

    {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

"smithy.api#documentation": " Token ID. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteTokenResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}

}
},
"com.amazonaws.licensemanager#DigitalSignatureMethod": {
"type": "enum",
"members": {
"JWT_PS384": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "JWT_PS384"
}
}
}
},
"com.amazonaws.licensemanager#Entitlement": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement resource. Use only
if the unit is None. "
}
},
"MaxCount": {
"target": "com.amazonaws.licensemanager#Long",
"traits": {

"smithy.api#documentation": " Maximum entitlement count. Use if the unit is not None. "
}
},
"Overage": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether overages are allowed. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementUnit",
"traits": {
"smithy.api#documentation": " Entitlement unit. ",
"smithy.api#required": {}
}
},
"AllowCheckIn": {
"target":
"com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether check-ins are allowed. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a resource entitled for use with a license. "
}
},
"com.amazonaws.licensemanager#EntitlementData": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement
data value. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {

"smithy.api#documentation": " Entitlement data unit. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Data associated with an entitlement resource. "
}
},
"com.amazonaws.licensemanager#EntitlementDataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#EntitlementData"
}
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
"type": "enum",
"members": {
"COUNT": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Count"
}
},
"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"SECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Seconds"
}
},
"MICROSECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Microseconds"
}
},
"MILLISECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Milliseconds"
}

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        },
        "BYTES": {
          "target": "smithy.api#Unit",
           "traits": {
             "smithy.api#enumValue": "Bytes"
          }
        },
        "KILOBYTES": {
          "target": "smithy.api#Unit",
          "traits": {
             "smithy.api#enumValue": "Kilobytes"
          }
        },
        "MEGABYTES": {
          "target": "smithy.api#Unit",
          "traits": {
             "smithy.api#enumValue": "Megabytes"
          }
        },
        "GIGABYTES": {
          "target": "smithy.api#Unit",
          "traits": {
             "smithy.api#enumValue": "Gigabytes"
          }
        },
        "TERABYTES": {
          "target": "smithy.api#Unit",
          "traits": {
             "smithy.api#enumValue": "Terabytes"
          }
        },
        "BITS":
{
          "target": "smithy.api#Unit",
          "traits": {
             "smithy.api#enumValue": "Bits"
          }
        },
        "KILOBITS": {
          "target": "smithy.api#Unit",
          "traits": {
             "smithy.api#enumValue": "Kilobits"
          }
        },
        "MEGABITS": {
          "target": "smithy.api#Unit",
          "traits": {
             "smithy.api#enumValue": "Megabits"
```

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            }
        },
        "GIGABITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabits"
            }
        },
        "TERABITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits"

    }
        },
        "PERCENT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Percent"
            }
        },
        "BYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bytes/Second"
            }
        },
        "KILOBYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes/Second"
            }
        },
        "MEGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes/Second"
            }
        },
        "GIGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Gigabytes/Second"
            }
        },
        "TERABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
```

"smithy.api#enumValue": "Terabytes/Second"
}
},
"BITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits/Second"
}
},
"KILOBITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits/Second"
}
},
"MEGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue":
"Megabits/Second"
}
},
"GIGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits/Second"
}
},
"TERABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits/Second"
}
},
"COUNT_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count/Second"
}
}
}
},
"com.amazonaws.licensemanager#EntitlementList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Entitlement"
}
},

"com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The entitlement is not allowed. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#EntitlementUnit": {
"type": "enum",
"members": {
"COUNT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count"
}
},
"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"SECONDS":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Seconds"
}
},
"MICROSECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Microseconds"
}
},
"MILLISECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Milliseconds"
}
},

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"BYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Bytes"
    }
},
"KILOBYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Kilobytes"
     }
},
"MEGABYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Megabytes"
    }
},
"GIGABYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Gigabytes"
    }
},
"TERABYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Terabytes"
    }
},
"BITS": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Bits"
    }
},
"KILOBITS": {
    "target": "smithy.api#Unit",
    "traits": {

     "smithy.api#enumValue": "Kilobits"
    }
},
"MEGABITS": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Megabits"
    }
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            },
            "GIGABITS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Gigabits"
                }
            },
            "TERABITS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Terabits"
                }
            },
            "PERCENT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Percent"
                }
            },
            "BYTES_PER_SECOND": {
                "target":
"smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Bytes/Second"
                }
            },
            "KILOBYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Kilobytes/Second"
                }
            },
            "MEGABYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Megabytes/Second"
                }
            },
            "GIGABYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Gigabytes/Second"
                }
            },
            "TERABYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
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"smithy.api#enumValue": "Terabytes/Second"
}
},
"BITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits/Second"
}
},
"KILOBITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits/Second"
}
},
"MEGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits/Second"
}
},
"GIGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits/Second"
}
},

"TERABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits/Second"
}
},
"COUNT_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count/Second"
}
}
}
},
"com.amazonaws.licensemanager#EntitlementUsage": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Entitlement usage name. ",
"smithy.api#required": {}
}
},
"ConsumedValue": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Resource usage consumed. ",
"smithy.api#required": {}
}
},
"MaxCount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Maximum entitlement usage count. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {
"smithy.api#documentation": " Entitlement usage unit. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Usage associated with an entitlement resource. "
}
},
"com.amazonaws.licensemanager#EntitlementUsageList":
{
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#EntitlementUsage"
}
},
"com.amazonaws.licensemanager#ExtendLicenseConsumption": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"

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            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}

      }
            },
            "DryRun": {
                "target": "com.amazonaws.licensemanager#Boolean",
                "traits": {
                    "smithy.api#default": false,
                    "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
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"com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},

"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license consumption expires. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#FailedDependencyException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
},
"ErrorCode": {
"target": "com.amazonaws.licensemanager#String"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FailedDependency",
"httpResponseCode": 424
},
"smithy.api#documentation":
" A dependency required to run the API is missing. ",
"smithy.api#error": "client",
"smithy.api#httpError": 424
}
},
"com.amazonaws.licensemanager#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#FilterName",
"traits": {

"smithy.api#documentation": " Name of the filter. Filter names are case-sensitive. "
}
},
"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " The value of the filter, which is case-sensitive. You can only specify one value for the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter name and value pair that is used to return more specific results from a\n describe operation. Filters can be used to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FilterLimitExceeded",
"httpResponseCode": 400
},
"smithy.api#documentation": " The request uses too many filters or too many filter values. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter"
}
},
"com.amazonaws.licensemanager#FilterName": {
"type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
"type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
"type": "list",

"member": {
"target": "com.amazonaws.licensemanager#FilterValue",
"traits": {
"smithy.api#xmlName": "item"
}
}
},
"com.amazonaws.licensemanager#Filters": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter",
"traits": {
"smithy.api#xmlName": "item"
}
}
},
"com.amazonaws.licensemanager#GetAccessToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access tokens\n are valid for one hour. "
}
},
"com.amazonaws.licensemanager#GetAccessTokenRequest": {

"type": "structure",
"members": {
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token, encoded as a JWT token. ",
"smithy.api#required": {}
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Token properties to validate against those present in the JWT token. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetAccessTokenResponse": {
"type": "structure",
"members": {
"AccessToken": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Temporary access token. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

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        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"

    },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
```

"Grant": {
"target": "com.amazonaws.licensemanager#Grant",
"traits": {
"smithy.api#documentation": " Grant details. "
}
}
},
"traits": {

"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"

},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
"type": "operation",
"input": {

"target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license configuration. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
}
},
"traits":
{
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationId": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Unique ID for the license configuration. "
}
},
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension for which the licenses are counted. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",

"traits": {
"smithy.api#documentation": " Number of available licenses. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Sets the number of available licenses as a hard limit. "
}
},

"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses assigned to resources. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License configuration status. "
}

},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}

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            },
            "DisassociateWhenNotFound": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>When
true, disassociates a resource when software is uninstalled.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConversionTask": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {

 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
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"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted to. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",

"traits": {
"smithy.api#documentation": " Status of the license type conversion task. "
}
},

"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was started . "
}
},
"LicenseConversionTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Amount of time to complete the license type conversion. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was completed. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},

```
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

        },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
                    "smithy.api#required":
{}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {
            "ReportGenerator": {
                "target": "com.amazonaws.licensemanager#ReportGenerator",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            }
        },
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"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseResponse": {
"type": "structure",
"members": {
"License": {
"target": "com.amazonaws.licensemanager#License",
"traits": {
"smithy.api#documentation": " License details. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},

"com.amazonaws.licensemanager#GetLicenseUsage": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"

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        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {

  "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
        }
      },
      "com.amazonaws.licensemanager#GetLicenseUsageRequest": {
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#GetLicenseUsageResponse": {
        "type": "structure",
        "members": {
          "LicenseUsage": {
            "target":
"com.amazonaws.licensemanager#LicenseUsage",
            "traits": {
```

"smithy.api#documentation": " License usage details. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets the License Manager settings for the current Region. "
}
},
"com.amazonaws.licensemanager#GetServiceSettingsRequest": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Regional S3 bucket path for storing reports, license trail event data,

discovery data,\n and so on. "

}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " SNS topic configured to receive notifications from License Manager. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Indicates whether Organizations is integrated with License Manager for\n cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether cross-account discovery is enabled. "
}

},
"LicenseManagerResourceShareArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource share. The License Manager management account \n provides member accounts with access to this share. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#Grant": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"ParentArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Parent ARN. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. ",
"smithy.api#required": {}
}
},
"GranteePrincipalArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {

"smithy.api#documentation": " The grantee principal ARN. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "

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                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Granted operations.</p>",
                    "smithy.api#required": {}
                }
            },
            "Options": {
                "target": "com.amazonaws.licensemanager#Options",
                "traits": {
                    "smithy.api#documentation": "<p>The options specified for the grant.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
"<p>Describes a grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#GrantList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Grant"
        }
    },
    "com.amazonaws.licensemanager#GrantStatus": {
        "type": "enum",
        "members": {
            "PENDING_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_WORKFLOW"
                }
            },
            "PENDING_ACCEPT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_ACCEPT"
                }
```

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            },
            "REJECTED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "REJECTED"

            }
            },
            "ACTIVE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "ACTIVE"
                }
            },
            "FAILED_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "FAILED_WORKFLOW"
                }
            },
            "DELETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DELETED"
                }
            },
            "PENDING_DELETE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_DELETE"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                "traits":
{
                    "smithy.api#enumValue": "DISABLED"
                }
            },
            "WORKFLOW_COMPLETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "WORKFLOW_COMPLETED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GrantedLicense": {
```

"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. "
}

},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " Granted license issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the granted license. "

}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " Granted license status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",

"traits": {
"smithy.api#documentation": " Date and time range during which the granted license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Granted license beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Granted license metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Creation time of the granted license. "

}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Version of the granted license. "
}
},
"ReceivedMetadata": {
"target": "com.amazonaws.licensemanager#ReceivedMetadata",
"traits": {
"smithy.api#documentation": " Granted license received metadata. "
}
}

```
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes a license that is granted to a grantee.</p>"
        }
    },
    "com.amazonaws.licensemanager#GrantedLicenseList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#GrantedLicense"
        }
    },
    "com.amazonaws.licensemanager#ISO8601DateTime":
{
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            },
            "smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-
1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[ 0-3]|[0-1][0-9]):[0-5][0-9])+$"
        }
    },
    "com.amazonaws.licensemanager#Integer": {
        "type": "integer"
    },
    "com.amazonaws.licensemanager#InvalidParameterValueException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidParameterValueProvided",
                "httpResponseCode": 400
            },
            "smithy.api#documentation":
"<p>One or more parameter values are not valid.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InvalidResourceStateException": {
        "type": "structure",
        "members": {
            "Message": {
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"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidResourceState",
"httpResponseCode": 400
},
"smithy.api#documentation": " License Manager cannot allocate a license to a resource because of its state. \n For example, you cannot allocate a license to an instance in the process of shutting\n down. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},

"com.amazonaws.licensemanager#InventoryFilter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the filter. ",
"smithy.api#required": {}
}
},
"Condition": {
"target": "com.amazonaws.licensemanager#InventoryFilterCondition",
"traits": {
"smithy.api#documentation": " Condition of the filter. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Value of the filter. "
}
}

},
"traits": {
"smithy.api#documentation": " An inventory filter. "
}
},
"com.amazonaws.licensemanager#InventoryFilterCondition": {
"type": "enum",
"members": {

"EQUALS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "EQUALS"
}
},
"NOT_EQUALS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "NOT_EQUALS"
}
},
"BEGINS_WITH": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "BEGINS_WITH"
}
},
"CONTAINS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CONTAINS"
}
}
}
},
"com.amazonaws.licensemanager#InventoryFilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#InventoryFilter"
}
},
"com.amazonaws.licensemanager#Issuer": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. ",
"smithy.api#required": {}
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage

of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about the issuer of a license. "
}
},
"com.amazonaws.licensemanager#IssuerDetails": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. "
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer key fingerprint. "
}
}
},
"traits": {
"smithy.api#documentation": " Details associated with the issuer of a license. "
}
},
"com.amazonaws.licensemanager#License": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " License name. "
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " License issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Home Region of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},

"Entitlements": {

"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " License metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License
creation time. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#documentation": " Software license that is managed in License Manager. "
}
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
"type": "structure",
"members": {
"LicenseConfigurationId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Unique ID of the license configuration. "
}
},
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension to use to track the license inventory. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Number of available licenses as a hard limit. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
},
"ConsumedLicenses": {

"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the license configuration. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the license configuration's owner. "

}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for licenses consumed by various resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {

"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n

Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource consuming licenses. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " Time when the license configuration was associated with the resource. "
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an association with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
"type": "list",

"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
}
},
"com.amazonaws.licensemanager#LicenseConfigurationStatus": {
"type": "enum",
"members":
{
"AVAILABLE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "AVAILABLE"
}
},
"DISABLED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DISABLED"
}
}
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsage": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits":
{
"smithy.api#documentation": " Type of resource. "
}
},
"ResourceStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "

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            }
        },
        "AssociationTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time when the license configuration was initially associated with
the resource.</p>"
            }
        },

    "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about the usage of a resource associated with a license
configuration.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
    }
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#LicenseConfiguration"
    }
},
"com.amazonaws.licensemanager#LicenseConversionContext": {

  "type": "structure",
    "members": {
        "UsageOperation": {
            "target": "com.amazonaws.licensemanager#UsageOperation",
            "traits": {
                "smithy.api#documentation": "<p>The Usage operation value that corresponds to the license type you
are converting your resource from.  For more information about which platforms correspond to which usage
operation values see <a href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-
fields.html#billing-info\">Sample data: usage operation by platform\n      </a>\n         </p>"
            }
        }
    },
```

"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTask": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {

"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource associated with the license type\n conversion task. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted to. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " The status of the conversion task. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},

"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation":
" The time the conversion task was started at. "
}
},
"LicenseConversionTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the usage operation value of the resource was changed. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was completed. "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTaskId": {
"type": "string",
"traits": {

"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
}
},
"com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
"type": "enum",
"members": {
"IN_PROGRESS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "IN_PROGRESS"
}
},
"SUCCEEDED": {
"target": "smithy.api#Unit",
"traits": {

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                "smithy.api#enumValue": "SUCCEEDED"
            }
        },
        "FAILED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "FAILED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseConversionTasks":
{
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#LicenseConversionTask"
    }
},
"com.amazonaws.licensemanager#LicenseCountingType": {
    "type": "enum",
    "members": {
        "VCPU": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "vCPU"
            }
        },
        "INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Instance"
            }
        },
        "CORE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Core"
            }
        },
        "SOCKET": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Socket"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {
```

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    "type": "enum",
    "members": {
        "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {

    "type": "structure",
    "members": {
        "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
        },
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Resource type.</p>"
            }
        },
        "ErrorMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Error message.</p>"
            }
        },
        "FailureTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
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"smithy.api#documentation": " Failure time. "
}
},
"OperationName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the operation. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource. "
}
},
"OperationRequestedBy": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The requester is \"License Manager Automated Discovery\". "
}
},
"MetadataList": {

"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Reserved. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the failure of a license operation. "
}
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailure"
}
},
"com.amazonaws.licensemanager#LicenseSpecification": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",

"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseSpecification"
}
},
"com.amazonaws.licensemanager#LicenseStatus": {
"type": "enum",
"members": {
"AVAILABLE": {
"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "AVAILABLE"
}
},
"PENDING_AVAILABLE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_AVAILABLE"
}
},
"DEACTIVATED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DEACTIVATED"
}
},
"SUSPENDED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SUSPENDED"

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            }
        },
        "EXPIRED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EXPIRED"
            }
        },

    "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseUsage": {
    "type": "structure",
    "members": {
        "EntitlementUsages": {
            "target": "com.amazonaws.licensemanager#EntitlementUsageList",
            "traits": {
                "smithy.api#documentation": "<p>License entitlement usages.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes the entitlement usage associated with a license.</p>"

    }
},
"com.amazonaws.licensemanager#LicenseUsageException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "LicenseUsageFailure",
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"httpResponseCode": 412
},
"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the resource associations for the specified license configuration. \n Resource associations need not consume licenses from a license configuration. \n For example, an AMI or a stopped instance might not consume a license (depending on \n the license rules). "
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results
to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationAssociations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license
configuration. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",

"input": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants distributed for the specified license. "
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>LicenseArn</code>\n \n

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</li>\n <li>\n <p>\n <code>GrantStatus</code>\n </p>\n </li>\n
<li>\n <p>\n <code>GranteePrincipalARN</code>\n </p>\n </li>\n
<li>\n <p>\n <code>ProductSKU</code>\n </p>\n </li>\n <li>\n
<p>\n <code>LicenseIssuerName</code>\n
</p>\n </li>\n </ul>"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": "<p>Token for the next set of results.</p>"
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",

"traits": {
"smithy.api#documentation": "<p>Distributed grant details.</p>"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": "<p>Token for the next set of results.</p>"
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
"type": "operation",
"input": {
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"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configuration operations that failed. "
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name of the license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}

```
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse":
{
        "type": "structure",
        "members": {
            "LicenseOperationFailureList": {
                "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
                "traits": {
                    "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurations": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },

    "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations
 for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next
 set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n                Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n            Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n                <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n            Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n
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</li>\n <li>\n <p>\n <code>usagelimitExceeded</code> - A Boolean value that indicates whether the available licenses have been exceeded. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n </li>\n </ul>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
        "type": "structure",
        "members": {
          "LicenseConfigurations": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurations",
            "traits": {
              "smithy.api#documentation": "<p>Information about the license configurations.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",

         "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseConversionTasks": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
        "type": "structure",
        "members": {
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {

    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>\n        Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n      </p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTasks": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configuration tasks for your
```

account. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target":
"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}

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        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the report generators for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest":
{
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:
</p>\n        <ul>\n            <li>\n                <p>\n                    <code>LicenseConfigurationArn</code>\n
</p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits":
{
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
            "ReportGenerators": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorList",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

"smithy.api#documentation": " Token for the next set of results. "
}

}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Describes the license configurations for the specified resource. "
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a resource that has an associated license configuration. ",
"smithy.api#required": {}
}

```
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {

    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {
        "LicenseSpecifications": {
            "target": "com.amazonaws.licensemanager#LicenseSpecifications",
            "traits": {
                "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
            }
        },
        "NextToken": {
             "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
```

```
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
```

```
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
              "smithy.api#documentation": "<p>License details.</p>"
            }
          },

"NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenses": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicensesRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicensesResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
           },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
```

```
        "traits": {
            "smithy.api#documentation": "<p>Lists the licenses for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicensesRequest": {
        "type": "structure",
        "members": {
            "LicenseArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
                }
            },

     "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n              <p>\n                <code>Beneficiary</code>\n              </p>\n
      </li>\n           <li>\n              <p>\n                <code>ProductSKU</code>\n              </p>\n           </li>\n
   <li>\n              <p>\n                <code>Fingerprint</code>\n              </p>\n           </li>\n           <li>\n
<p>\n                <code>Status</code>\n              </p>\n           </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token
 for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicensesResponse": {
        "type": "structure",
        "members": {
            "Licenses": {
                "target": "com.amazonaws.licensemanager#LicenseList",
                "traits": {
```

"smithy.api#documentation": " License details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists grants that are received. Received grants are grants created while

specifying the\n recipient as this Amazon Web Services account, your organization, or an organizational unit\n (OU) to which this member account belongs. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target":
"com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants received for all accounts in the organization. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the received license. ",
"smithy.api#required": {}

```
            }
        },
        "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
                "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n
    <ul>\n        <li>\n        <p>\n        <code>ParentArn</code>\n        </p>\n        </li>\n
<li>\n        <p>\n        <code>GranteePrincipalArn</code>\n        </p>\n        </li>\n        </ul>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse":
{
    "type": "structure",
    "members": {
        "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
            "traits": {
                "smithy.api#documentation": "<p>Lists the grants the organization has received.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
```

```
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
      "type": "structure",
      "members": {
        "GrantArns": {
          "target": "com.amazonaws.licensemanager#ArnList",
           "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
          }
        },
        "Filters": {
          "target": "com.amazonaws.licensemanager#FilterList",
          "traits": {
            "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n            </p>\n
      </li>\n          <li>\n            <p>\n              <code>LicenseIssuerName</code>\n            </p>\n
</li>\n          <li>\n            <p>\n              <code>LicenseArn</code>\n            </p>\n          </li>\n
<li>\n            <p>\n              <code>GrantStatus</code>\n            </p>\n          </li>\n          <li>\n
<p>\n
      <code>GranterAccountId</code>\n            </p>\n          </li>\n        </ul>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#MaxSize100",
          "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
      "type": "structure",
      "members": {
        "Grants": {
          "target": "com.amazonaws.licensemanager#GrantList",
           "traits": {
            "smithy.api#documentation": "<p>Received grant details.</p>"
          }
        },
```

```
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
         },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists received licenses.</p>"
    }
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
```

```
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {

    "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the licenses received for all accounts in the organization.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>Beneficiary</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                <code>ProductSKU</code>\n
            </p>\n            </li>\n        </ul>"
                }
            },
```

```
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
    "type": "structure",
    "members": {
        "Licenses": {
            "target": "com.amazonaws.licensemanager#GrantedLicenseList",
             "traits": {
                "smithy.api#documentation": "<p>Lists the licenses the organization has received.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
    "type": "structure",
    "members": {
        "LicenseArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
            }
        },
```

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>IssuerName</code>\n \n \n \n \n <code>Beneficiary</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#GrantedLicenseList",
"traits": {
"smithy.api#documentation": " Received license details. "
}
},

"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}

```
},
"com.amazonaws.licensemanager#ListResourceInventory": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#FailedDependencyException"
        },
        {
            "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
    }
},
"com.amazonaws.licensemanager#ListResourceInventoryRequest": {
    "type": "structure",
    "members": {
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#InventoryFilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n
\n \n \n <code>application_name</code> - The name of the application. \n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n
\n \n \n <code>license_included</code> - The type of license included. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n Possible values are <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n
\n <code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n \n \n \n
<code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n
<code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account). \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListResourceInventoryResponse": {
"type": "structure",
"members": {
"ResourceInventoryList": {
"target": "com.amazonaws.licensemanager#ResourceInventoryList",
"traits": {
"smithy.api#documentation": " Information about the resources. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {

"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListTagsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the tags for the specified license configuration. "
}
},
"com.amazonaws.licensemanager#ListTagsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",

"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}

```
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the tags.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors":
[
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
```

```
            "TokenIds": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {

                  "smithy.api#documentation": "<p>Token IDs.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
    <ul>\n            <li>\n              <p>\n                <code>LicenseArns</code>\n              </p>\n            </li>\n
</ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation":
 "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokensResponse": {
        "type": "structure",
        "members": {
            "Tokens": {
                "target": "com.amazonaws.licensemanager#TokenList",
                "traits": {
                    "smithy.api#documentation": "<p>Received token details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
```

```
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
             {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying
license\n        consumption details by resource at a selected point in time. Use this action to audit the\n        current
license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
```

"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>resourceArn</code> - The ARN of the license configuration resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceAccount</code> - The ID of the account that owns the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
"type": "structure",
"members": {

"LicenseConfigurationUsageList": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#Location": {
"type": "string"
},
"com.amazonaws.licensemanager#Long": {
"type": "long"
},
"com.amazonaws.licensemanager#ManagedResourceSummary": {
"type": "structure",
"members": {
"ResourceType":
{
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of resource associated with a license. "
}
},
"AssociationCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of resources associated with licenses. "
}
}
},
"traits": {
"smithy.api#documentation": " Summary information about a managed resource. "
}
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummary"
}
},
"com.amazonaws.licensemanager#MaxSize100": {

"type": "integer",
"traits": {
"smithy.api#range": {
"min": 1,
"max": 100

```
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The key name.</p>"
            }
        },

"Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The value.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes key/value pairs.</p>"
    }
},
"com.amazonaws.licensemanager#MetadataList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Metadata"
    }
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
    "type": "structure",
    "members": {
```

"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#Options": {
"type": "structure",
"members": {
"ActivationOverrideBehavior": {
"target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
"traits": {
"smithy.api#documentation": " An activation option for your grant that determines the behavior of activating a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter. \n \n \n As a license administrator, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant. \n \n \n As a grantor, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your organization. \n \n \n As a grantee, if the grantor creating the distributed grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n are activating the grant. \n \n \n <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n Use this value to activate a grant without replacing any member accounts\n active grants for the same product. \n </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n Use this value to activate a grant and disable other active grants in any\n member accounts
for the same product. This action will also replace their\n previously activated grants with this activated grant. \n </dd>\n </dl>"
}
}
},
"traits": {
"smithy.api#documentation": " The options you can specify when you create a new version of a grant, such as activation\n override behavior. For more information, see Granted licenses in License Manager in the License Manager User Guide. "
}
},
"com.amazonaws.licensemanager#OrganizationConfiguration": {
"type": "structure",
"members": {
"EnableIntegration": {
"target": "com.amazonaws.licensemanager#Boolean",

"traits": {
"smithy.api#default": false,
"smithy.api#documentation":
" Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Resource type. The
possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a
<code>ProductInformationFilterComparator</code> which is a logical operator, a
<code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a
<code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values
for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for
<code>ProductInformationFilterComparator</code>. \n The following filters and are supported when
the resource type \n is <code>SSM_MANAGED</code>: \n
\n \n \n <code>Application Name</code> - The name of the
application.\n Logical operator is <code>EQUALS</code>. \n \n \n
\n <code>Application Publisher</code> - The publisher of the application.\n Logical

operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n Logical operator is <code>EQUALS</code>. \n
\n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n <code>diagnostic pack sqlt</code> | \n
<code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n
\n ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information for a license configuration. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
"type": "structure",
"members": {
"ProductInformationFilterName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Filter name. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterValue": {
"target": "com.amazonaws.licensemanager#StringList",

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        "traits": {
            "smithy.api#documentation": "<p>Filter value.</p>"
        }
      },
      "ProductInformationFilterComparator": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Logical operator.</p>",
            "smithy.api#required": {}
        }
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>Describes product information filters.</p>"
    }
  },
  "com.amazonaws.licensemanager#ProductInformationFilterList": {
    "type": "list",
    "member": {
      "target": "com.amazonaws.licensemanager#ProductInformationFilter"
    }
  },
  "com.amazonaws.licensemanager#ProductInformationList": {
    "type": "list",
    "member": {
      "target": "com.amazonaws.licensemanager#ProductInformation"
     }
  },
  "com.amazonaws.licensemanager#ProvisionalConfiguration": {
    "type": "structure",
    "members": {
      "MaxTimeToLiveInMinutes": {
        "target": "com.amazonaws.licensemanager#BoxInteger",
        "traits": {
            "smithy.api#documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>",
            "smithy.api#required": {}
        }
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
    }
  },
  "com.amazonaws.licensemanager#RateLimitExceededException": {
    "type": "structure",
    "members": {
      "Message": {
        "target": "com.amazonaws.licensemanager#Message"
```

```
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "RateLimitExceeded",
                "httpResponseCode": 429
            },
            "smithy.api#documentation": "<p>Too many requests have been submitted. Try again after a brief
wait.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 429
        }
    },
    "com.amazonaws.licensemanager#ReceivedMetadata": {
        "type": "structure",
        "members": {
            "ReceivedStatus": {
                "target": "com.amazonaws.licensemanager#ReceivedStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Received status.</p>"
                }
            },
            "ReceivedStatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>Received
status reason.</p>"
                }
            },
            "AllowedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed operations.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Metadata associated with received licenses and grants.</p>"
        }
    },
    "com.amazonaws.licensemanager#ReceivedStatus": {
        "type": "enum",
        "members": {
            "PENDING_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_WORKFLOW"
                }
```

```
            },
            "PENDING_ACCEPT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue":
"PENDING_ACCEPT"
                }
            },
            "REJECTED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "REJECTED"
                }
            },
            "ACTIVE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "ACTIVE"
                }
            },
            "FAILED_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "FAILED_WORKFLOW"
                }
            },
            "DELETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DELETED"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                 "traits": {
                    "smithy.api#enumValue": "DISABLED"
                }
            },
            "WORKFLOW_COMPLETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "WORKFLOW_COMPLETED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#RedirectException": {
        "type": "structure",
```

"members": {
"Location": {
"target": "com.amazonaws.licensemanager#Location",
"traits": {
"smithy.api#httpHeader": "Location"
}
},
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " This is not the correct Region for the resource. Try again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 308
}
},
"com.amazonaws.licensemanager#RejectGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#RejectGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#RejectGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}

}
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#RenewType":
```

{
"type": "enum",
"members": {
"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"WEEKLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Weekly"
}
},
"MONTHLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Monthly"
}
}
}
},
"com.amazonaws.licensemanager#ReportContext": {
"type": "structure",
"members": {
"licenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details of the license configuration that this generator reports on. "
}
},
"com.amazonaws.licensemanager#ReportFrequency": {
"type": "structure",
"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "

```
                }
            },
            "period": {
                "target": "com.amazonaws.licensemanager#ReportFrequencyType",

                "traits": {
                    "smithy.api#documentation": "<p>Time period between each report. The period can be daily, weekly,
or monthly.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
        }
    },
    "com.amazonaws.licensemanager#ReportFrequencyType": {
        "type": "enum",
        "members": {
            "DAY": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DAY"
                }
            },
            "WEEK": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "WEEK"
                }
            },
            "MONTH": {
                "target": "smithy.api#Unit",
                "traits":
{
                    "smithy.api#enumValue": "MONTH"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ReportGenerator": {
        "type": "structure",
        "members": {
            "ReportGeneratorName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>"
                }
            },
```

"ReportType": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports that are generated. "
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " License configuration type for this generator. "
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. "
}
},
"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}
},
"LastRunFailureReason": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Failure message for the last report generation attempt. "
}
},
"LastReportGenerationTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the last report was generated at. "
}
},
"ReportCreatorAccount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Web Services account ID used to create the report

generator. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the report was created. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags associated with the report generator. "
}

}
},
"traits": {
"smithy.api#documentation": " Describe the details of a report generator. "
}
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportGenerator"
}
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
}

```
        }
    },
    "com.amazonaws.licensemanager#ReportType": {
        "type": "enum",
        "members": {
            "LICENSE_CONFIGURATION_SUMMARY_REPORT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "LicenseConfigurationSummaryReport"
                }

    },
            "LICENSE_CONFIGURATION_USAGE_REPORT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "LicenseConfigurationUsageReport"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ReportTypeList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ReportType"
        }
    },
    "com.amazonaws.licensemanager#ResourceInventory": {
        "type": "structure",
        "members": {
            "ResourceId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits":
{
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
```

"Platform": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Platform of the resource. "
}
},
"PlatformVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Platform version of the resource in the inventory. "
}
},
"ResourceOwningAccountId":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a resource. "
}
},
"com.amazonaws.licensemanager#ResourceInventoryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ResourceInventory"
}
},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ResourceLimitExceeded",

"httpResponseCode": 400
},
"smithy.api#documentation": " Your resource limits have been exceeded. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},

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"com.amazonaws.licensemanager#ResourceNotFoundException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "InvalidResource.NotFound",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The resource cannot be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceType": {
    "type": "enum",
     "members": {
        "EC2_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_INSTANCE"
            }
        },
        "EC2_HOST": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_HOST"
            }
        },
        "EC2_AMI": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_AMI"
            }
        },
        "RDS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "RDS"
            }
        },
        "SYSTEMS_MANAGER_MANAGED_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
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"smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
}
}
}
},
"com.amazonaws.licensemanager#S3Location": {
"type": "structure",
"members": {
"bucket": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the S3 bucket reports are published to. "
}
},
"keyPrefix": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Prefix of the S3 bucket reports are published to. "
}
}
},
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InternalError",
"httpResponseCode": 500
},
"smithy.api#documentation": " The server experienced an internal error. Try again. ",
"smithy.api#error": "server",
"smithy.api#httpError": 500
}
},
"com.amazonaws.licensemanager#SignedToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 4096

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            }
        }
    },
    "com.amazonaws.licensemanager#StatusReasonMessage": {
        "type": "string",
        "traits":
{
            "smithy.api#length": {
                "min": 0,
                "max": 400
            },
            "smithy.api#pattern": "^[\\s\\S]+$"
        }
    },
    "com.amazonaws.licensemanager#String": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#Tag": {
        "type": "structure",
        "members": {
            "Key": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag key.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Tag value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
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        }
    },
    "com.amazonaws.licensemanager#TagList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Tag"
        }
    },
    "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
            {
                "target":
"com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits":
{
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
```

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            }
        },
        "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
                "smithy.api#documentation": "<p>One or more tags.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#TagResourceResponse": {
    "type": "structure",
    "members": {},
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#TokenData": {
    "type": "structure",
    "members": {
        "TokenId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token ID.</p>"
            }
        },
        "TokenType": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>"
            }
        },
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "ExpirationTime": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Token expiration time, in ISO8601-UTC
```

format. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller. "
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the roles included in the token. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. "
}
}
},
"traits": {

"smithy.api#documentation": " Describes a token. "
}
},
"com.amazonaws.licensemanager#TokenList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#TokenData"
}
},
"com.amazonaws.licensemanager#TokenString": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 4096
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#TokenType": {
"type": "enum",
"members": {

"REFRESH_TOKEN": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REFRESH_TOKEN"
}
}
}
},
"com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException":
{
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The digital signature method is unsupported. Try your request
again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#UntagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UntagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],

"traits": {
"smithy.api#documentation": " Removes the specified tags from the specified license configuration. "
}
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",
"traits": {
"smithy.api#documentation": " Keys identifying the tags to remove. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

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            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseConfigurationStatus": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
                "traits": {
                    "smithy.api#documentation": "<p>New status of the license configuration.</p>"
                }
            },
            "LicenseRules": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {

    "smithy.api#documentation": "<p>New license rule. The only rule that you can add after you create a license\n
    configuration is licenseAffinityToHost.</p>"
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
```

"smithy.api#documentation": " New number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}

```
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates a report generator.</p>\n        <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to
```

update. ",
"smithy.api#required": {}
}
},
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation":
" Type of reports to generate. The following report types are supported: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " The report context. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits":
{
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Description of the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},

{
"target": "com.amazonaws.licensemanager#InvalidResourceStateException"
},
{
"target": "com.amazonaws.licensemanager#LicenseUsageException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],

"traits": {
"smithy.api#documentation": " Adds or removes the specified license configurations for the specified Amazon Web Services resource. \n You can update the license specifications of AMIs, instances, and hosts.\n You cannot update the license specifications for launch templates and CloudFormation templates, \n as they send license configurations to the operation that creates the resource. "
}
},

"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon Web Services resource. ",
"smithy.api#required": {}
}
},
"AddLicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " ARNs of the license configurations to add. "
}
},
"RemoveLicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " ARNs of the license configurations to remove. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where the License
 Manager information is stored.</p>"
                }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Enables integration with Organizations for cross-account discovery.</p>"
```

```
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Activates cross-account discovery.</p>"

        }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#UsageOperation": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            }
        }
    },
    "com.amazonaws.licensemanager#ValidationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",

    "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    }
  }
}
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version
 of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {
```

```
 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack,
 options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if
 err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
```

```
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
```

1.4283 packet 1.1.2

1.4283.1 Available under license :

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1.4284 go-ps 0.3.28

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1.4285 x-exp 0.0.0-20231206192017-f3f8817b8deb

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1.4286 client-go 1.19.9-0.20240405184322-ef7f04bc53b3

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Go support for Protocol Buffers - Google's data interchange format

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1.4287 kube-openapi 0.0.0-20230811205723-7ac0aad8c58d

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```
package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
 license := License{Name: "the name", URL: "the url"}
 const licenseJSON = `{"name":"the name","url":"the url"}`
 const licenseYAML = "name: the name\nurl: the url\n"

 assertSerializeJSON(t, license, licenseJSON)
 assertParsesJSON(t, licenseJSON, license)
}
```

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1.4288 go-deadlock 0.3.5

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1.4289 controller-runtime 0.17.2

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1.4290 sdk-gitea 0.17.1

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1.4291 go-gitlab 0.96.0

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```
package gitlab

import (
 "fmt"
 "net/http"
 "testing"

 "github.com/stretchr/testify/require"
)

func TestLicenseService_GetLicense(t *testing.T) {
 mux, client := setup(t)

 mux.HandleFunc("/api/v4/license", func(w http.ResponseWriter, r *http.Request) {
  testMethod(t, r, http.MethodGet)
  fmt.Fprintf(w, `
   {
    "id": 2,
    "plan": "gold",
    "historical_max": 300,
    "maximum_user_count": 300,
    "expired": false,
    "overage": 200,
    "user_limit": 100,
    "active_users": 300,
    "licensee": {
   "Name": "Venkatesh Thalluri"
    },
    "add_ons": {
   "GitLab_FileLocks": 1,
   "GitLab_Auditor_User": 1
    }
```

```
  }
 `)
})

want := &License{
 ID:              2,
 Plan:            "gold",
 HistoricalMax:    300,
 MaximumUserCount: 300,
 Expired:          false,
 Overage:          200,
 UserLimit:        100,
 ActiveUsers:      300,
 Licensee: struct {
  Name    string `json:"Name"`
  Company string `json:"Company"`
  Email   string `json:"Email"`
 }{
  Name:
   "Venkatesh Thalluri",
  Company: "",
  Email:   "",
 },
 AddOns: struct {
  GitLabAuditorUser int `json:"GitLab_Auditor_User"`
  GitLabDeployBoard int `json:"GitLab_DeployBoard"`
  GitLabFileLocks   int `json:"GitLab_FileLocks"`
  GitLabGeo         int `json:"GitLab_Geo"`
  GitLabServiceDesk int `json:"GitLab_ServiceDesk"`
 }{
  GitLabAuditorUser: 1,
  GitLabDeployBoard: 0,
  GitLabFileLocks:   1,
  GitLabGeo:         0,
  GitLabServiceDesk: 0,
 },
}

l, resp, err := client.License.GetLicense()
require.NoError(t, err)
require.NotNil(t, resp)
require.Equal(t, want, l)
}

func TestLicenseService_GetLicense_StatusNotFound(t *testing.T) {
 mux, client := setup(t)

 mux.HandleFunc("/api/v4/license", func(w http.ResponseWriter, r *http.Request) {
```

```
 testMethod(t, r, http.MethodGet)
 w.WriteHeader(http.StatusNotFound)
 })

 l, resp, err := client.License.GetLicense()
 require.Error(t, err)
 require.Nil(t, l)
 require.Equal(t, http.StatusNotFound, resp.StatusCode)
}

func
 TestLicenseService_AddLicense(t *testing.T) {
 mux, client := setup(t)

 mux.HandleFunc("/api/v4/license", func(w http.ResponseWriter, r *http.Request) {
  testMethod(t, r, http.MethodPost)
  fmt.Fprintf(w, `
   {
    "id": 2,
    "plan": "gold",
    "historical_max": 300,
    "maximum_user_count": 300,
    "expired": false,
    "overage": 200,
    "user_limit": 100,
    "active_users": 300,
    "licensee": {
   "Name": "Venkatesh Thalluri"
    },
    "add_ons": {
   "GitLab_FileLocks": 1,
   "GitLab_Auditor_User": 1
    }
   }
  `)
 })

 want := &License{
  ID:              2,
  Plan:            "gold",
  HistoricalMax:    300,
  MaximumUserCount: 300,
  Expired:          false,
  Overage:          200,
  UserLimit:        100,
  ActiveUsers:      300,
  Licensee: struct {
   Name    string `json:"Name"`
```

```
  Company string `json:"Company"`
  Email   string `json:"Email"`
 }{
  Name:    "Venkatesh Thalluri",
  Company: "",
  Email:   "",
 },
 AddOns:
struct {
  GitLabAuditorUser int `json:"GitLab_Auditor_User"`
  GitLabDeployBoard int `json:"GitLab_DeployBoard"`
  GitLabFileLocks   int `json:"GitLab_FileLocks"`
  GitLabGeo         int `json:"GitLab_Geo"`
  GitLabServiceDesk int `json:"GitLab_ServiceDesk"`
 }{
  GitLabAuditorUser: 1,
  GitLabDeployBoard: 0,
  GitLabFileLocks:   1,
  GitLabGeo:         0,
  GitLabServiceDesk: 0,
 },
}

l, resp, err := client.License.AddLicense(nil)
require.NoError(t, err)
require.NotNil(t, resp)
require.Equal(t, want, l)

l, resp, err = client.License.AddLicense(nil, errorOption)
require.EqualError(t, err, "RequestOptionFunc returns an error")
require.Nil(t, resp)
require.Nil(t, l)
}

func TestLicenseService_AddLicense_StatusNotFound(t *testing.T) {
mux, client := setup(t)

mux.HandleFunc("/api/v4/license", func(w http.ResponseWriter, r *http.Request) {
 testMethod(t, r, http.MethodPost)
 w.WriteHeader(http.StatusNotFound)
})

l, resp, err := client.License.AddLicense(nil)
require.Error(t,
err)
require.Nil(t, l)
require.Equal(t, http.StatusNotFound, resp.StatusCode)
}
```

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//

package gitlab

import (
 "fmt"
 "net/http"
)

// LicenseTemplate represents a license template.
//
// GitLab API docs:
// https://docs.gitlab.com/ee/api/templates/licenses.html
type LicenseTemplate struct {
 Key         string   `json:"key"`
 Name        string   `json:"name"`
 Nickname    string   `json:"nickname"`
```

```
 Featured    bool     `json:"featured"`
 HTMLURL     string   `json:"html_url"`
 SourceURL
   string   `json:"source_url"`
 Description string   `json:"description"`
 Conditions  []string `json:"conditions"`
 Permissions []string `json:"permissions"`
 Limitations []string `json:"limitations"`
 Content     string   `json:"content"`
}

// LicenseTemplatesService handles communication with the license templates
// related methods of the GitLab API.
//
// GitLab API docs: https://docs.gitlab.com/ee/api/templates/licenses.html
type LicenseTemplatesService struct {
 client *Client
}

// ListLicenseTemplatesOptions represents the available
// ListLicenseTemplates() options.
//
// GitLab API docs:
// https://docs.gitlab.com/ee/api/templates/licenses.html#list-license-templates
type ListLicenseTemplatesOptions struct {
 ListOptions
 Popular *bool `url:"popular,omitempty" json:"popular,omitempty"`
}

// ListLicenseTemplates get all license templates.
//
// GitLab API docs:
// https://docs.gitlab.com/ee/api/templates/licenses.html#list-license-templates
func (s *LicenseTemplatesService)
 ListLicenseTemplates(opt *ListLicenseTemplatesOptions, options ...RequestOptionFunc) ([]*LicenseTemplate,
*Response, error) {
 req, err := s.client.NewRequest(http.MethodGet, "templates/licenses", opt, options)
 if err != nil {
  return nil, nil, err
 }

 var lts []*LicenseTemplate
 resp, err := s.client.Do(req, &lts)
 if err != nil {
  return nil, resp, err
 }

 return lts, resp, nil
```

```
}

// GetLicenseTemplateOptions represents the available
// GetLicenseTemplate() options.
//
// GitLab API docs:
// https://docs.gitlab.com/ee/api/templates/licenses.html#single-license-template
type GetLicenseTemplateOptions struct {
 Project  *string `url:"project,omitempty" json:"project,omitempty"`
 Fullname *string `url:"fullname,omitempty" json:"fullname,omitempty"`
}

// GetLicenseTemplate get a single license template. You can pass parameters
// to replace the license placeholder.
//
// GitLab API docs:
// https://docs.gitlab.com/ee/api/templates/licenses.html#single-license-template
func
 (s *LicenseTemplatesService) GetLicenseTemplate(template string, opt *GetLicenseTemplateOptions, options
...RequestOptionFunc) (*LicenseTemplate, *Response, error) {
 u := fmt.Sprintf("templates/licenses/%s", template)

 req, err := s.client.NewRequest(http.MethodGet, u, opt, options)
 if err != nil {
  return nil, nil, err
 }

 lt := new(LicenseTemplate)
 resp, err := s.client.Do(req, lt)
 if err != nil {
  return nil, resp, err
 }

 return lt, resp, nil
}
{
 "id": 3,
 "name": "CUSTOM",
 "approval_status": "blacklisted"
}
{
 "id": 3,
 "name": "ISC",
 "approval_status": "blacklisted"
}
{
 "id": 123,
 "name": "MIT",
```

"approval_status": "approved"
}
[
{
"id": 1,
"name": "MIT",
"approval_status": "approved"
},
{
"id": 3,
"name": "ISC",
"approval_status": "blacklisted"
}
]
//
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//

```
package gitlab

import (
 "fmt"
 "net/http"
)

// ManagedLicensesService handles communication with the managed licenses
// methods of the GitLab API.
//
// GitLab API docs: https://docs.gitlab.com/ee/api/managed_licenses.html
type ManagedLicensesService struct {
 client *Client
}

// ManagedLicense represents a managed license.
//
// GitLab API docs: https://docs.gitlab.com/ee/api/managed_licenses.html
```

```
type
 ManagedLicense struct {
 ID            int                    `json:"id"`
 Name          string                `json:"name"`
 ApprovalStatus LicenseApprovalStatusValue `json:"approval_status"`
}

// ListManagedLicenses returns a list of managed licenses from a project.
//
// GitLab API docs:
// https://docs.gitlab.com/ee/api/managed_licenses.html#list-managed-licenses
func (s *ManagedLicensesService) ListManagedLicenses(pid interface{}, options ...RequestOptionFunc)
([]*ManagedLicense, *Response, error) {
 project, err := parseID(pid)
 if err != nil {
  return nil, nil, err
 }
 u := fmt.Sprintf("projects/%s/managed_licenses", PathEscape(project))

 req, err := s.client.NewRequest(http.MethodGet, u, nil, options)
 if err != nil {
  return nil, nil, err
 }

 var mls []*ManagedLicense
 resp, err := s.client.Do(req, &mls)
 if err != nil {
  return nil, resp, err
 }

 return mls, resp, nil
}

// GetManagedLicense returns an existing managed license.
//
// GitLab API docs:
//
 https://docs.gitlab.com/ee/api/managed_licenses.html#show-an-existing-managed-license
func (s *ManagedLicensesService) GetManagedLicense(pid, mlid interface{}, options ...RequestOptionFunc)
(*ManagedLicense, *Response, error) {
 project, err := parseID(pid)
 if err != nil {
  return nil, nil, err
 }
 license, err := parseID(mlid)
 if err != nil {
  return nil, nil, err
 }
```

```
 u := fmt.Sprintf("projects/%s/managed_licenses/%s", PathEscape(project), PathEscape(license))

 req, err := s.client.NewRequest(http.MethodGet, u, nil, options)
 if err != nil {
  return nil, nil, err
 }

 ml := new(ManagedLicense)
 resp, err := s.client.Do(req, ml)
 if err != nil {
  return nil, resp, err
 }

 return ml, resp, nil
}

// AddManagedLicenseOptions represents the available AddManagedLicense() options.
//
// GitLab API docs:
// https://docs.gitlab.com/ee/api/managed_licenses.html#create-a-new-managed-license
type AddManagedLicenseOptions struct {
 Name          *string                    `url:"name,omitempty"
 json:"name,omitempty"`
 ApprovalStatus *LicenseApprovalStatusValue `url:"approval_status,omitempty" json:"approval_status,omitempty"`
}

// AddManagedLicense adds a managed license to a project.
//
// GitLab API docs:
// https://docs.gitlab.com/ee/api/managed_licenses.html#create-a-new-managed-license
func (s *ManagedLicensesService) AddManagedLicense(pid interface{}, opt *AddManagedLicenseOptions,
options ...RequestOptionFunc) (*ManagedLicense, *Response, error) {
 project, err := parseID(pid)
 if err != nil {
  return nil, nil, err
 }
 u := fmt.Sprintf("projects/%s/managed_licenses", PathEscape(project))

 req, err := s.client.NewRequest(http.MethodPost, u, opt, options)
 if err != nil {
  return nil, nil, err
 }

 ml := new(ManagedLicense)
 resp, err := s.client.Do(req, ml)
 if err != nil {
  return nil, resp, err
 }
```

```
 return ml, resp, nil
}

// DeleteManagedLicense deletes a managed license with a given ID.
//
// GitLab API docs:
// https://docs.gitlab.com/ee/api/managed_licenses.html#delete-a-managed-license
func
 (s *ManagedLicensesService) DeleteManagedLicense(pid, mlid interface{}, options ...RequestOptionFunc)
(*Response, error) {
 project, err := parseID(pid)
 if err != nil {
  return nil, err
 }
 license, err := parseID(mlid)
 if err != nil {
  return nil, err
 }
 u := fmt.Sprintf("projects/%s/managed_licenses/%s", PathEscape(project), PathEscape(license))

 req, err := s.client.NewRequest(http.MethodDelete, u, nil, options)
 if err != nil {
  return nil, err
 }

 return s.client.Do(req, nil)
}

// EditManagedLicenceOptions represents the available EditManagedLicense() options.
//
// GitLab API docs:
// https://docs.gitlab.com/ee/api/managed_licenses.html#edit-an-existing-managed-license
type EditManagedLicenceOptions struct {
 ApprovalStatus *LicenseApprovalStatusValue `url:"approval_status,omitempty" json:"approval_status,omitempty"`
}

// EditManagedLicense updates an existing managed license with a new approval
// status.
//
// GitLab API
 docs:
// https://docs.gitlab.com/ee/api/managed_licenses.html#edit-an-existing-managed-license
func (s *ManagedLicensesService) EditManagedLicense(pid, mlid interface{}, opt *EditManagedLicenceOptions,
options ...RequestOptionFunc) (*ManagedLicense, *Response, error) {
 project, err := parseID(pid)
 if err != nil {
  return nil, nil, err
```

```
 }
 license, err := parseID(mlid)
 if err != nil {
  return nil, nil, err
 }
 u := fmt.Sprintf("projects/%s/managed_licenses/%s", PathEscape(project), PathEscape(license))

 req, err := s.client.NewRequest(http.MethodPatch, u, opt, options)
 if err != nil {
  return nil, nil, err
 }

 ml := new(ManagedLicense)
 resp, err := s.client.Do(req, ml)
 if err != nil {
  return nil, resp, err
 }

 return ml, resp, nil
}
package gitlab

import (
 "fmt"
 "net/http"
 "testing"

 "github.com/stretchr/testify/require"
)

func TestLicenseTemplatesService_ListLicenseTemplates(t *testing.T) {
 mux, client := setup(t)

 mux.HandleFunc("/api/v4/templates/licenses", func(w http.ResponseWriter, r *http.Request) {
  testMethod(t, r, http.MethodGet)
  fmt.Fprintf(w, `
   [
    {
     "key": "apache-2.0",
     "name": "Apache License 2.0",
     "nickname": null,
     "featured": true,
     "html_url": "http://choosealicense.com/licenses/apache-2.0/",
     "source_url": "http://www.apache.org/licenses/LICENSE-2.0.html",
     "description": "A permissive license that also provides an express grant of patent rights from contributors to users.",
     "conditions": [
      "include-copyright",
      "document-changes"
```

```
    ],
    "permissions": [
     "commercial-use",
     "modifications",
     "distribution",
     "patent-use",
     "private-use"
    ],
    "limitations": [
     "trademark-use",
     "no-liability"
    ],
    "content":
"Apache License\n Version 2.0, January 2004\n [...]"
   }
  ]
 `)
})

want := []*LicenseTemplate{{
 Key:         "apache-2.0",
 Name:        "Apache License 2.0",
 Nickname:    "",
 Featured:    true,
 HTMLURL:     "http://choosealicense.com/licenses/apache-2.0/",
 SourceURL:   "http://www.apache.org/licenses/LICENSE-2.0.html",
 Description: "A permissive license that also provides an express grant of patent rights from contributors to users.",
 Conditions:  []string{"include-copyright", "document-changes"},
 Permissions: []string{"commercial-use", "modifications", "distribution", "patent-use", "private-use"},
 Limitations: []string{"trademark-use", "no-liability"},
 Content:     "Apache License\n Version 2.0, January 2004\n [...]",
}}

lts, resp, err := client.LicenseTemplates.ListLicenseTemplates(nil)
require.NoError(t, err)
require.NotNil(t, resp)
require.Equal(t, want, lts)

lts, resp, err = client.LicenseTemplates.ListLicenseTemplates(nil,
errorOption)
require.EqualError(t, err, "RequestOptionFunc returns an error")
require.Nil(t, resp)
require.Nil(t, lts)
}

func TestLicenseTemplatesService_ListLicenseTemplates_StatusNotFound(t *testing.T) {
 mux, client := setup(t)
```

```
 mux.HandleFunc("/api/v4/templates/licenses", func(w http.ResponseWriter, r *http.Request) {
  testMethod(t, r, http.MethodGet)
  w.WriteHeader(http.StatusNotFound)
 })

 lts, resp, err := client.LicenseTemplates.ListLicenseTemplates(nil)
 require.Error(t, err)
 require.Nil(t, lts)
 require.Equal(t, http.StatusNotFound, resp.StatusCode)
}

func TestLicenseTemplatesService_GetLicenseTemplate(t *testing.T) {
 mux, client := setup(t)

 mux.HandleFunc("/api/v4/templates/licenses/apache-2.0", func(w http.ResponseWriter, r *http.Request) {
  testMethod(t, r, http.MethodGet)
  fmt.Fprintf(w, `
   {
    "key": "apache-2.0",
    "name": "Apache License 2.0",
    "nickname": null,
    "featured": true,
    "html_url": "http://choosealicense.com/licenses/apache-2.0/",
    "source_url":
"http://www.apache.org/licenses/LICENSE-2.0.html",
    "description": "A permissive license that also provides an express grant of patent rights from contributors to users.",
    "conditions": [
     "include-copyright",
     "document-changes"
    ],
    "permissions": [
     "commercial-use",
     "modifications",
     "distribution",
     "patent-use",
     "private-use"
    ],
    "limitations": [
     "trademark-use",
     "no-liability"
    ],
    "content": "Apache License\n Version 2.0, January 2004\n [...]"
   }
  `)
 })

 want := &LicenseTemplate{
  Key:         "apache-2.0",
```

```
 Name:        "Apache License 2.0",
 Nickname:    "",
 Featured:    true,
 HTMLURL:     "http://choosealicense.com/licenses/apache-2.0/",
 SourceURL:   "http://www.apache.org/licenses/LICENSE-2.0.html",
 Description: "A permissive license that also provides an express grant of patent rights from contributors to users.",
 Conditions:  []string{"include-copyright", "document-changes"},
 Permissions:
[]string{"commercial-use", "modifications", "distribution", "patent-use", "private-use"},
 Limitations: []string{"trademark-use", "no-liability"},
 Content:     "Apache License\n Version 2.0, January 2004\n [...]",
}

lt, resp, err := client.LicenseTemplates.GetLicenseTemplate("apache-2.0", nil)
require.NoError(t, err)
require.NotNil(t, resp)
require.Equal(t, want, lt)

lt, resp, err = client.LicenseTemplates.GetLicenseTemplate("apache-2.0", nil, errorOption)
require.EqualError(t, err, "RequestOptionFunc returns an error")
require.Nil(t, resp)
require.Nil(t, lt)

lt, resp, err = client.LicenseTemplates.GetLicenseTemplate("mit", nil)
require.Error(t, err)
require.Nil(t, lt)
require.Equal(t, http.StatusNotFound, resp.StatusCode)
}
//
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// limitations under the License.
//

package gitlab

import (
 "fmt"
```

```
 "net/http"
 "time"
)

// LicenseService handles communication with the license
// related methods of the GitLab API.
//
// GitLab API docs:
// https://docs.gitlab.com/ee/api/license.html
type LicenseService struct {
 client *Client
}

// License represents a GitLab license.
//
// GitLab API docs:
// https://docs.gitlab.com/ee/api/license.html
type License struct {
 ID
            int        `json:"id"`
 Plan            string     `json:"plan"`
 CreatedAt        *time.Time `json:"created_at"`
 StartsAt         *ISOTime   `json:"starts_at"`
 ExpiresAt        *ISOTime   `json:"expires_at"`
 HistoricalMax    int        `json:"historical_max"`
 MaximumUserCount int        `json:"maximum_user_count"`
 Expired          bool       `json:"expired"`
 Overage          int        `json:"overage"`
 UserLimit        int        `json:"user_limit"`
 ActiveUsers      int        `json:"active_users"`
 Licensee         struct {
  Name    string `json:"Name"`
  Company string `json:"Company"`
  Email   string `json:"Email"`
 } `json:"licensee"`
 // Add on codes that may occur in legacy licenses that don't have a plan yet.
 // https://gitlab.com/gitlab-org/gitlab/-/blob/master/ee/app/models/license.rb
 AddOns struct {
  GitLabAuditorUser int `json:"GitLab_Auditor_User"`
  GitLabDeployBoard int `json:"GitLab_DeployBoard"`
  GitLabFileLocks   int `json:"GitLab_FileLocks"`
  GitLabGeo
        int `json:"GitLab_Geo"`
  GitLabServiceDesk int `json:"GitLab_ServiceDesk"`
 } `json:"add_ons"`
}

func (l License) String() string {
```

```
 return Stringify(l)
}

// GetLicense retrieves information about the current license.
//
// GitLab API docs:
// https://docs.gitlab.com/ee/api/license.html#retrieve-information-about-the-current-license
func (s *LicenseService) GetLicense(options ...RequestOptionFunc) (*License, *Response, error) {
 req, err := s.client.NewRequest(http.MethodGet, "license", nil, options)
 if err != nil {
  return nil, nil, err
 }

 l := new(License)
 resp, err := s.client.Do(req, l)
 if err != nil {
  return nil, resp, err
 }

 return l, resp, nil
}

// AddLicenseOptions represents the available AddLicense() options.
//
// https://docs.gitlab.com/ee/api/license.html#add-a-new-license
type AddLicenseOptions struct {
 License *string `url:"license" json:"license"`
}

// AddLicense adds a new license.
//
// GitLab API docs:
// https://docs.gitlab.com/ee/api/license.html#add-a-new-license
func
 (s *LicenseService) AddLicense(opt *AddLicenseOptions, options ...RequestOptionFunc) (*License, *Response,
error) {
 req, err := s.client.NewRequest(http.MethodPost, "license", opt, options)
 if err != nil {
  return nil, nil, err
 }

 l := new(License)
 resp, err := s.client.Do(req, l)
 if err != nil {
  return nil, resp, err
 }

 return l, resp, nil
```

```
}

// DeleteLicense deletes an existing license.
//
// GitLab API docs:
// https://docs.gitlab.com/ee/api/license.html#delete-a-license
func (s *LicenseService) DeleteLicense(licenseID int, options ...RequestOptionFunc) (*Response, error) {
 u := fmt.Sprintf("license/%d", licenseID)

 req, err := s.client.NewRequest(http.MethodDelete, u, nil, options)
 if err != nil {
  return nil, err
 }

 return s.client.Do(req, nil)
}
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//

package gitlab

import (
 "net/http"
 "reflect"
 "testing"
)

func TestListManagedLicenses(t *testing.T) {
 mux, client := setup(t)

 mux.HandleFunc("/api/v4/projects/1/managed_licenses", func(w http.ResponseWriter, r *http.Request) {
  testMethod(t, r, http.MethodGet)
  mustWriteHTTPResponse(t, w, "testdata/list_project_managed_licenses.json")
 })
```

```
licenses, _, err := client.ManagedLicenses.ListManagedLicenses(1)
if
err != nil {
 t.Errorf("ManagedLicenses.ListManagedLicenses returned error: %v", err)
}

want := []*ManagedLicense{
 {
  ID:            1,
  Name:          "MIT",
  ApprovalStatus: LicenseApproved,
 },
 {
  ID:            3,
  Name:          "ISC",
  ApprovalStatus: LicenseBlacklisted,
 },
}

if !reflect.DeepEqual(want, licenses) {
 t.Errorf("ManagedLicenses.ListManagedLicenses returned %+v, want %+v", licenses, want)
}
}

func TestGetManagedLicenses(t *testing.T) {
 mux, client := setup(t)

 mux.HandleFunc("/api/v4/projects/1/managed_licenses/3", func(w http.ResponseWriter, r *http.Request) {
  testMethod(t, r, http.MethodGet)
  mustWriteHTTPResponse(t, w, "testdata/get_project_managed_license.json")
 })

 license, _, err := client.ManagedLicenses.GetManagedLicense(1, 3)
 if err != nil {
  t.Errorf("ManagedLicenses.GetManagedLicense returned error: %v", err)
 }

 want := &ManagedLicense{
  ID:            3,
  Name:          "ISC",
  ApprovalStatus:
 LicenseBlacklisted,
 }

 if !reflect.DeepEqual(want, license) {
  t.Errorf("ManagedLicenses.GetManagedLicense returned %+v, want %+v", license, want)
 }
}
```

```
func TestAddManagedLicenses(t *testing.T) {
 mux, client := setup(t)

 mux.HandleFunc("/api/v4/projects/1/managed_licenses", func(w http.ResponseWriter, r *http.Request) {
  testMethod(t, r, http.MethodPost)
  testBody(t, r, `{"name":"MIT","approval_status":"approved"}`)
  mustWriteHTTPResponse(t, w, "testdata/add_project_managed_license.json")
 })

 ops := AddManagedLicenseOptions{
  Name:          Ptr("MIT"),
  ApprovalStatus: Ptr(LicenseApproved),
 }
 license, _, err := client.ManagedLicenses.AddManagedLicense(1, &ops)
 if err != nil {
  t.Errorf("ManagedLicenses.AddManagedLicense returned error: %v", err)
 }

 want := &ManagedLicense{
  ID:            123,
  Name:          "MIT",
  ApprovalStatus: LicenseApproved,
 }

 if !reflect.DeepEqual(want, license) {
  t.Errorf("ManagedLicenses.AddManagedLicense returned %+v,
 want %+v", license, want)
 }
}

func TestDeleteManagedLicenses(t *testing.T) {
 mux, client := setup(t)

 mux.HandleFunc("/api/v4/projects/1/managed_licenses/3", func(w http.ResponseWriter, r *http.Request) {
  testMethod(t, r, http.MethodDelete)
 })

 _, err := client.ManagedLicenses.DeleteManagedLicense(1, 3)
 if err != nil {
  t.Errorf("ManagedLicenses.RemoveManagedLicense returned error: %v", err)
 }
}

func TestEditManagedLicenses(t *testing.T) {
 mux, client := setup(t)

 mux.HandleFunc("/api/v4/projects/1/managed_licenses/3", func(w http.ResponseWriter, r *http.Request) {
```

```
 testMethod(t, r, http.MethodPatch)
 testBody(t, r, `{"approval_status":"blacklisted"}`)
 mustWriteHTTPResponse(t, w, "testdata/edit_project_managed_license.json")
})

ops := EditManagedLicenceOptions{
 ApprovalStatus: Ptr(LicenseBlacklisted),
}
license, _, err := client.ManagedLicenses.EditManagedLicense(1, 3, &ops)
if err != nil {
 t.Errorf("ManagedLicenses.EditManagedLicense returned error: %v", err)
}

want
:= &ManagedLicense{
 ID:            3,
 Name:          "CUSTOM",
 ApprovalStatus: LicenseBlacklisted,
}

if !reflect.DeepEqual(want, license) {
 t.Errorf("ManagedLicenses.EditManagedLicense returned %+v, want %+v", license, want)
}
}
```

1.4292 netipx 0.0.0-20231129151722-fdeea329fbba

1.4292.1 Available under license :

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1.4293 gateway-api 1.0.0

1.4293.1 Available under license :

ISC

1.4294 kubernetes-kubectl 0.28.0

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1.4295 kubernetes-component-base 0.29.2

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1.4296 kustomize-kyaml 0.14.3

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1.4297 winston/node_modules/is-stream 2.0.1

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
 license := License{Name: "the name", URL: "the url"}
 const licenseJSON = `{"name":"the name","url":"the url"}`
 const licenseYAML = "name: the name\nurl: the url\n"

 assertSerializeJSON(t, license, licenseJSON)
 assertParsesJSON(t, licenseJSON, license)
}
```

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1.4299 controller-runtime 0.16.0

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```

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```
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1.4308 kubernetes-apiserver-extensions 0.29.2

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1.4309 @npmcli/run-script 9.0.2

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1.4310 kube-openapi 0.0.0-20240103051144-eec4567ac022

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
# This source code was written by the Go contributors.
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package spec
```

```
import "testing"

func TestIntegrationLicense(t *testing.T) {
 license := License{Name: "the name", URL: "the url"}
 const licenseJSON = `{"name":"the name","url":"the url"}`
 const licenseYAML = "name: the name\nurl: the url\n"

 assertSerializeJSON(t, license, licenseJSON)
 assertParsesJSON(t, licenseJSON, license)
}
```

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1.4311 mcs-api 0.1.0

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1.4313 github 57.0.0

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```
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package github

import (
 "context"
 "fmt"
 "net/http"
 "testing"

 "github.com/google/go-cmp/cmp"
)

func TestRepositoryLicense_Marshal(t *testing.T) {
 testJSONMarshal(t, &RepositoryLicense{}, "{}")

 rl := &RepositoryLicense{
  Name:       String("n"),
  Path:       String("p"),
  SHA:        String("s"),
  Size:       Int(1),
  URL:        String("u"),
  HTMLURL:    String("h"),
```

```
 GitURL:      String("g"),
 DownloadURL: String("d"),
 Type:        String("t"),
 Content:     String("c"),
 Encoding:    String("e"),
 License: &License{
  Key:            String("k"),
  Name:           String("n"),
  URL:            String("u"),
  SPDXID:         String("s"),
  HTMLURL:        String("h"),
  Featured:       Bool(true),
  Description:    String("d"),
  Implementation: String("i"),
  Permissions:    &[]string{"p"},
  Conditions:
    &[]string{"c"},
  Limitations:    &[]string{"l"},
  Body:           String("b"),
 },
}
want := `{
 "name": "n",
 "path": "p",
 "sha": "s",
 "size": 1,
 "url": "u",
 "html_url": "h",
 "git_url": "g",
 "download_url": "d",
 "type": "t",
 "content": "c",
 "encoding": "e",
 "license": {
  "key": "k",
  "name": "n",
  "url": "u",
  "spdx_id": "s",
  "html_url": "h",
  "featured": true,
  "description": "d",
  "implementation": "i",
  "permissions": ["p"],
  "conditions": ["c"],
  "limitations": ["l"],
  "body": "b"
 }
}`
```

```
 testJSONMarshal(t, rl, want)
}

func TestLicense_Marshal(t *testing.T) {
 testJSONMarshal(t, &License{}, "{}")

 l := &License{
  Key:            String("k"),
  Name:           String("n"),
  URL:            String("u"),
  SPDXID:         String("s"),
  HTMLURL:        String("h"),
  Featured:       Bool(true),
  Description:    String("d"),
  Implementation: String("i"),
  Permissions:    &[]string{"p"},
  Conditions:
     &[]string{"c"},
  Limitations:    &[]string{"l"},
  Body:           String("b"),
 }
 want := `{
  "key": "k",
  "name": "n",
  "url": "u",
  "spdx_id": "s",
  "html_url": "h",
  "featured": true,
  "description": "d",
  "implementation": "i",
  "permissions": ["p"],
  "conditions": ["c"],
  "limitations": ["l"],
  "body": "b"
 }`
 testJSONMarshal(t, l, want)
}

func TestLicensesService_List(t *testing.T) {
 client, mux, _, teardown := setup()
 defer teardown()

 mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {
  testMethod(t, r, "GET")
  fmt.Fprint(w,
`[{"key":"mit","name":"MIT","spdx_id":"MIT","url":"https://api.github.com/licenses/mit","featured":true}]`)
 })
```

```
 ctx := context.Background()
 licenses, _, err := client.Licenses.List(ctx)
 if err != nil {
  t.Errorf("Licenses.List returned error: %v", err)
 }

 want := []*License{{
  Key:      String("mit"),
  Name:     String("MIT"),
  SPDXID:   String("MIT"),
  URL:      String("https://api.github.com/licenses/mit"),
  Featured:
 Bool(true),
 }}
 if !cmp.Equal(licenses, want) {
  t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
 }

 const methodName = "List"
 testNewRequestAndDoFailure(t, methodName, client, func() (*Response, error) {
  got, resp, err := client.Licenses.List(ctx)
  if got != nil {
   t.Errorf("testNewRequestAndDoFailure %v = %#v, want nil", methodName, got)
  }
  return resp, err
 })
}

func TestLicensesService_Get(t *testing.T) {
 client, mux, _, teardown := setup()
 defer teardown()

 mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
  testMethod(t, r, "GET")
  fmt.Fprint(w, `{"key":"mit","name":"MIT"}`)
 })

 ctx := context.Background()
 license, _, err := client.Licenses.Get(ctx, "mit")
 if err != nil {
  t.Errorf("Licenses.Get returned error: %v", err)
 }

 want := &License{Key: String("mit"), Name: String("MIT")}
 if !cmp.Equal(license, want) {
  t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
 }
```

```
 const
 methodName = "Get"
 testBadOptions(t, methodName, func() (err error) {
  _, _, err = client.Licenses.Get(ctx, "\n")
  return err
 })

 testNewRequestAndDoFailure(t, methodName, client, func() (*Response, error) {
  got, resp, err := client.Licenses.Get(ctx, "mit")
  if got != nil {
   t.Errorf("testNewRequestAndDoFailure %v = %#v, want nil", methodName, got)
  }
  return resp, err
 })
}

func TestLicensesService_Get_invalidTemplate(t *testing.T) {
 client, _, _, teardown := setup()
 defer teardown()

 ctx := context.Background()
 _, _, err := client.Licenses.Get(ctx, "%")
 testURLParseError(t, err)
}
```

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// license that can be found in the LICENSE file.

package github

import (
 "context"
 "fmt"
)

// LicensesService handles communication with the license related
// methods of the GitHub API.
//
// GitHub API docs: https://docs.github.com/rest/licenses/
type LicensesService service

// RepositoryLicense represents the license for a repository.
type RepositoryLicense struct {
 Name *string `json:"name,omitempty"`
 Path *string `json:"path,omitempty"`

 SHA         *string  `json:"sha,omitempty"`
 Size        *int     `json:"size,omitempty"`
 URL         *string  `json:"url,omitempty"`
 HTMLURL     *string  `json:"html_url,omitempty"`
 GitURL      *string  `json:"git_url,omitempty"`
 DownloadURL *string  `json:"download_url,omitempty"`
 Type        *string  `json:"type,omitempty"`
 Content     *string  `json:"content,omitempty"`
 Encoding    *string  `json:"encoding,omitempty"`
 License
     *License `json:"license,omitempty"`
}

func (l RepositoryLicense) String() string {
 return Stringify(l)
}

// License represents an open source license.
type License struct {
 Key  *string `json:"key,omitempty"`
 Name *string `json:"name,omitempty"`
```

```
 URL  *string `json:"url,omitempty"`

 SPDXID        *string   `json:"spdx_id,omitempty"`
 HTMLURL       *string   `json:"html_url,omitempty"`
 Featured      *bool     `json:"featured,omitempty"`
 Description   *string   `json:"description,omitempty"`
 Implementation *string  `json:"implementation,omitempty"`
 Permissions   *[]string `json:"permissions,omitempty"`
 Conditions    *[]string `json:"conditions,omitempty"`
 Limitations   *[]string `json:"limitations,omitempty"`
 Body          *string   `json:"body,omitempty"`
}

func (l License) String() string {
 return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://docs.github.com/rest/licenses/licenses#get-all-commonly-used-licenses
//
//meta:operation
 GET /licenses
func (s *LicensesService) List(ctx context.Context) ([]*License, *Response, error) {
 req, err := s.client.NewRequest("GET", "licenses", nil)
 if err != nil {
  return nil, nil, err
 }

 var licenses []*License
 resp, err := s.client.Do(ctx, req, &licenses)
 if err != nil {
  return nil, resp, err
 }

 return licenses, resp, nil
}

// Get extended metadata for one license.
//
// GitHub API docs: https://docs.github.com/rest/licenses/licenses#get-a-license
//
//meta:operation GET /licenses/{license}
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
 u := fmt.Sprintf("licenses/%s", licenseName)

 req, err := s.client.NewRequest("GET", u, nil)
 if err != nil {
```

```
 return nil, nil, err
}

license := new(License)
resp, err := s.client.Do(ctx, req, license)
if err != nil {
 return nil, resp, err
}

return license, resp, nil
}
```

1.4314 gateway-api 0.8.0

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Contributor Ladder

Within the Kubernetes community, the concept of a contributor ladder has been
developed to define how individuals can earn formal roles within the project.
The Gateway API contributor ladder largely follows the [roles defined by the
broader Kubernetes
community](https://github.com/kubernetes/community/blob/master/community-membership.md),
though there are some aspects that are unique to this community.

Goals

We hope that this doc will provide an initial step towards the following goals:

* Ensure the long term health of the Gateway API community
* Encourage new contributors to work towards formal roles and responsibilities

in the project
* Clearly define the path towards leadership roles
* Develop a strong leadership pipeline so we have great candidates to fill
project leadership roles

Scope

The following repositories are covered by this doc:

* [kubernetes-sigs/gateway-api](https://github.com/kubernetes-sigs/gateway-api)
* [kubernetes-sigs/ingress2gateway](https://github.com/kubernetes-sigs/ingress2gateway)
*
kubernetes-sigs/blixt (once migration is complete)

Within each of these projects, there are opportunities to become an approver or
reviewer for either the entire project, or a subset of that project. For
example, you could become a reviewer or approver focused on just docs, GEPs, API
changes, or conformance tests.

General Guidelines

1. Everyone is welcome

We appreciate all contributions. You dont need to have a formal role in the project to make or review pull requests, and help with issues or discussions. Accepting a formal role within the project is entirely optional.

2. These roles require continued contributions

Applying for one of the roles defined above should only be done if you intend to
continue to contribute at a level that would merit that role. If for any reason
you are unable to continue in one of the roles above, please resign. Members
with an extended period away from the project with no activity
will be removed
from the Kubernetes GitHub Organizations and will be required to go through the
org membership process again after re-familiarizing themselves with the current
state.

3. Dont merge without consensus

If you have reason to believe that a change may be contentious, please wait for
additional perspectives from others before merging any PRs. Even if you have
access to merge a PR, it doesnt mean you should. Although we cant have PRs
blocked indefinitely, we need to make sure everyone has had a chance to present
their perspective.

4. Start a discussion

If youre interested in working towards one of these roles, please reach out to
a Gateway API maintainer on Slack.

Contributor Ladder

The Gateway API contributor ladder has the following steps:

1. Member
2. Reviewer
3. Approver
4. Maintainer

This is also a GAMMA-specific leadership role that does not fit as cleanly on
this ladder. All of these roles will be defined in more detail below.

Member, Reviewer,
 and Approver

The first steps on the contributor ladder are already [clearly defined in the
upstream Kubernetes
Community](https://github.com/kubernetes/community/blob/master/community-membership.md#community-membership).
Gateway API follows those guidelines along with the rest of the Kubernetes
community. Within Gateway API, there are a variety of areas one can become a
reviewer or approver, this includes:

* Conformance
* Documentation
* GEPs
* Webhook Validation

Maintainers and GAMMA Leads

The final steps on the contributor ladder represent large overall leadership
roles within the project as a whole. The spaces available for these roles are
limited (generally 3-4 people in each role is ideal). Wherever possible, we try
to ensure that different companies are represented in these roles.

Maintainers

Gateway API Maintainers are known as [Subproject
Owners](https://github.com/kubernetes/community/blob/master/community-membership.md#subproject-owner)
within the Kubernetes community.
 To become a Gateway API Maintainer, the most
important things we expect are:

* Long term, sustained contributions to Gateway API for at least 6 months
* Deep understanding of technical goals and direction of the project

* Successfully authored and led significant enhancement proposals
* Approver for at least 3 months
* Ability to lead community meetings

In addition to all of the expectations described above, we expect maintainers to set the technical direction and goals for the project. This role is critical to the health of the project, maintainers should mentor new approvers and reviewers, and ensure that there are healthy processes in place for discussion and decision making. Finally, maintainers are ultimately responsible for releasing new versions of the API.

GAMMA Leads

The concept of GAMMA Leads does not have a perfect parallel on the upstream Kubernetes community ladder. They are essentially Subproject Owners, but for the GAMMA initiative, which is a major initiative
within Gateway API.

To become a GAMMA lead, the most important thing we expect are:

* Significant experience with Service Mesh implementation(s)
* Deep understanding of technical goals and direction of the project
* Long term, sustained contributions to the GAMMA initiative for at least 6 months
* Ability to lead community meetings

In addition to all of the expectations described above, we expect GAMMA Leads to set the technical direction and goals for the GAMMA initiative. They should ensure that there are healthy processes in place for discussion and decision making and that the release goals and milestones are clearly defined.

1.4315 goid 0.0.0-20240813172612-4fcff4a6cae7

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1.4316 @npmcli/map-workspaces 4.0.2

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1.4317 jwx 1.2.26

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1.4318 jsonpatch 5.7.0

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To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

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1.4323 aws-sdk-go-v2-service-sts 1.26.7

1.4323.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil,
 err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType
```

```
 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err !=
 nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
```

```
 return err
 }
 if err = addDisableHTTPSMiddleware(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
```

AWS SDK for Go

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```
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
```

```
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
       uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
```

```
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
```

```
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return
err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckInLicense",
 }
}
{
  "smithy": "2.0",
  "shapes": {
      "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
          "type": "integer"
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
          "type": "long"
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
          "type": "structure",
          "members": {
              "Name": {
                  "target": "smithy.api#String",
                  "traits": {
                      "smithy.api#documentation": "<p>The type of name to filter by.</p>"
                  }
              },
              "Values": {
                  "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                  "traits": {
                      "smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
                  }
              },
              "Operator": {
                  "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
```

"traits": {
"smithy.api#documentation": " An operator for filtering results. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter object that is used to return more specific results from a describe operation.\n Filters can be used to match a set of resources by specific criteria. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
},
"output": {

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions service settings. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/GetServiceSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest":

{
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " Lists the settings defined for Linux subscriptions discovery. The settings include if\n Organizations integration has been enabled, and
which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays
the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
"type": "structure",
"members": {
"AmiId": {

"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The AMI ID used to launch the instance. "
}
},
"InstanceID": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The instance ID of the resource. "
}
},
"InstanceType": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The instance type of the resource. "
}

},
"AccountID": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The account ID which owns the instance. "
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of the instance. "
}
},
"Region": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The Region the instance is running in. "
}
},
"UsageOperation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The usage operation of the instance. For more information, see For more information, see\n Usage\n operation values in the License Manager User Guide. "
}
},
"ProductCode": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
"traits": {

"smithy.api#documentation": " The product code for the instance. For more information, see Usage\n operation values in the License Manager User Guide . "
}
},
"LastUpdatedTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The time in which the last discovery updated the instance details. "
}
},
"SubscriptionName": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription being used by the instance. "
}
}
},
"traits": {
"smithy.api#documentation": " Details discovered information about a running instance using Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " An exception occurred with the service. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
"type": "service",
"version": "2018-05-10",
"operations": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"

```
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
            }
        ],

    "traits": {
            "aws.api#service": {
                "sdkId": "License Manager Linux Subscriptions",
                "arnNamespace": "license-manager-linux-subscriptions",
                "cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
            },
            "aws.auth#sigv4": {
                "name": "license-manager-linux-subscriptions"
            },
            "aws.protocols#restJson1": {},
            "smithy.api#cors": {
                "additionalAllowedHeaders": [
                    "*",
                    "content-type",
                    "x-amz-content-sha256",
                    "x-amz-user-agent",
                    "x-amzn-platform-id",
                    "x-amzn-trace-id",
                    "content-length",
                    "x-api-key",
                    "authorization",
                    "x-amz-date",

 "x-amz-security-token",
                    "Access-Control-Allow-Headers",
                    "Access-Control-Allow-Methods",
                    "Access-Control-Allow-Origin"
                ],
                "additionalExposedHeaders": [
                    "x-amzn-errortype",
                    "x-amzn-requestid",
                    "x-amzn-trace-id"
                ]
            },
            "smithy.api#documentation": "<p>With License Manager, you can discover and track your commercial
Linux subscriptions on running\n      Amazon EC2 instances.</p>",
```

"smithy.api#title": "AWS License Manager Linux Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The
AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}
},
"rules": [
{
"conditions": [
{
"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
]
}
],
"type": "tree",

```
"rules": [
    {

  "conditions": [
          {
            "fn": "booleanEquals",
            "argv": [
              {
                "ref": "UseFIPS"
              },
              true
            ]
          }
        ],
        "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
        "type": "error"
    },
    {
        "conditions": [],
        "type": "tree",
        "rules": [
          {

      "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseDualStack"
                  },
                  true
                ]
              }
            ],
            "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
            "type": "error"
          },
          {
            "conditions": [],

"endpoint": {
              "url": {
                "ref": "Endpoint"
              },
              "properties": {},
              "headers": {}
            },
            "type": "endpoint"
```

```
                    }
                ]
            }
        ]
    },
    {
        "conditions": [],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "isSet",

"argv": [
                        {
                            "ref": "Region"
                        }
                    ]
                }
            ],
            "type": "tree",
            "rules": [
                {
                    "conditions": [
                        {
                            "fn": "aws.partition",
                            "argv": [
                                {
                                    "ref": "Region"
                                }
                            ],

"assign": "PartitionResult"
                        }
                    ],
                    "type": "tree",
                    "rules": [
                        {
                            "conditions": [
                                {
                                    "fn": "booleanEquals",
                                    "argv": [
                                        {
                                            "ref": "UseFIPS"
                                        },
                                        true
                                    ]
```

```
                    },

                {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseDualStack"
                            },
                            true
                        ]
                    }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [
                            {

                       "fn": "booleanEquals",
                                "argv": [
                                    true,
                                    {
                                        "fn": "getAttr",
                                        "argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },
                                            "supportsFIPS"
                                        ]

}
                                ]
                            },
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    true,
                                    {
                                        "fn": "getAttr",
                                        "argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },

                                 "supportsDualStack"
                                        ]
                                    }
                                ]
```

```
                    }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [],
                        "type": "tree",
                        "rules": [
                            {

                "conditions": [],
                                "endpoint": {
                                    "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                    "properties": {},
                                    "headers": {}
                                },
                                "type": "endpoint"
                            }
                        ]
                    }
                ]

            },
                {
                    "conditions": [],
                    "error": "FIPS and DualStack are enabled, but this partition does not support
one or both",
                    "type": "error"
                }
            ]
        },
        {
            "conditions": [
                {
                    "fn": "booleanEquals",
                    "argv": [
                        {

        "ref": "UseFIPS"
                        },
                        true
                    ]
                }
            ],
            "type": "tree",
            "rules": [
                {
```

```
                    "conditions": [
                      {
                        "fn": "booleanEquals",
                        "argv": [
                          true,

{
                            "fn": "getAttr",
                            "argv": [
                              {
                                "ref": "PartitionResult"
                              },
                              "supportsFIPS"
                            ]
                          }
                        ]
                      }
                    ],
                    "type": "tree",

                "rules": [
                      {
                        "conditions": [],
                        "type": "tree",
                        "rules": [
                          {
                            "conditions": [],
                            "endpoint": {
                              "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                              "properties": {},
                              "headers": {}

                            },
                            "type": "endpoint"
                          }
                        ]
                      }
                    ]
                  },
                  {
                    "conditions": [],
                    "error": "FIPS is enabled but this partition does not support FIPS",
                    "type": "error"
                  }
                ]
```

```
},
                    {
                      "conditions": [
                        {
                          "fn": "booleanEquals",
                          "argv": [
                            {
                              "ref": "UseDualStack"
                            },
                            true
                          ]
                        }
                      ],
                      "type": "tree",
                      "rules": [
                        {

                       "conditions": [
                            {
                              "fn": "booleanEquals",
                              "argv": [
                                true,
                                {
                                  "fn": "getAttr",
                                  "argv": [
                                    {
                                      "ref": "PartitionResult"
                                    },
                                    "supportsDualStack"
                                  ]
                                }
                              ]
                            }
                          ],
                          "type": "tree",
                          "rules": [
                            {
                              "conditions": [],
                              "type": "tree",
                              "rules": [
                                {
                                  "conditions": [],

                             "endpoint": {
                                    "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                    "properties": {},
                                    "headers": {}
```

```
                                        },
                                        "type": "endpoint"
                                    }
                                ]
                            }
                        ]
                    },

        {
                        "conditions": [],
                        "error": "DualStack is enabled but this partition does not support DualStack",
                        "type": "error"
                    }
                ]
            },
            {
                "conditions": [],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [],
                        "endpoint": {
                            "url":
"https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                            "properties": {},
                            "headers": {}
                        },
                        "type": "endpoint"
                    }
                ]
            }
        ]
    }
]
},
{
    "conditions": [],
    "error": "Invalid Configuration: Missing Region",
    "type": "error"
}
]
}
]
},
"smithy.rules#endpointTests": {
    "testCases": [
        {
            "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
```

"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {

"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,

"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {

"url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint":

{
"url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint":
{
"url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true

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    }
  },
  {
    "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "us-gov-east-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": true,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
      }
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": true,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
      "error": "DualStack is enabled but this partition does not support DualStack"
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": false,
      "UseDualStack": true
```

```
                }
            },
            {

        "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
                "expect": {
                    "endpoint": {
                        "url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
                    }
                },
                "params": {
                    "Region": "us-iso-east-1",
                    "UseFIPS": false,
                    "UseDualStack": false
                }
            },
            {
                "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
                "expect": {
                    "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
                },
                "params": {

              "Region": "us-isob-east-1",
                    "UseFIPS": true,
                    "UseDualStack": true
                }
            },
            {
                "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
                "expect": {
                    "endpoint": {
                        "url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
                    }
                },
                "params": {
                    "Region": "us-isob-east-1",
                    "UseFIPS": true,
                    "UseDualStack": false
                }
            },
            {
                "documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
                "expect": {
                    "error": "DualStack is enabled but this partition does not support DualStack"
                },
                "params": {
```

"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",

"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",

"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},

```
            {
              "documentation": "For custom endpoint with fips enabled and dualstack disabled",
              "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false,

        "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "For custom endpoint with fips disabled and dualstack enabled",
              "expect": {
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true,
                "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "Missing region",
              "expect": {
                "error": "Invalid Configuration: Missing Region"
              }

      }
          ],
          "version": "1.0"
        }
    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
    "type": "string",
    "traits": {
      "smithy.api#enum": [
        {
          "name": "Enabled",
          "value": "Enabled",
          "documentation": "Enabled LinuxSubscriptionsDiscovery"
        },
        {
          "name": "Disabled",
```

"value": "Disabled",
"documentation": "Disabled LinuxSubscriptionsDiscovery"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
"type": "structure",
"members": {
"SourceRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Regions in which to discover data for Linux subscriptions. ",
"smithy.api#required": {}
}
},
"OrganizationIntegration": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
"traits": {
"smithy.api#documentation": " Details if you have enabled resource discovery across your accounts in Organizations. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Lists the settings defined for discovering Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the running Amazon EC2 instances that were discovered with
commercial Linux\n      subscriptions.</p>",
            "smithy.api#http": {

      "code": 200,
                "method": "POST",
                "uri": "/subscription/ListLinuxSubscriptionInstances"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "Instances"
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by
 the name of\n        <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n
match, or don't match a certain Amazon Machine Image (AMI) ID.</p>\n        <p>The valid names for this filter
are:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>AmiID</code>\n                </p>\n
</li>\n            <li>\n                <p>\n                    <code>InstanceID</code>\n                </p>\n            </li>\n
<li>\n                <p>\n                    <code>AccountID</code>\n                </p>\n            </li>\n            <li>\n
<p>\n                    <code>Status</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>Region</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>UsageOperation</code>\n                </p>\n            </li>\n            <li>\n
    <p>\n                    <code>ProductCode</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
     <code>InstanceType</code>\n                </p>\n            </li>\n        </ul>\n        <p>The valid Operators for this
filter are:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>contains</code>\n                </p>\n
</li>\n            <li>\n                <p>\n                    <code>equals</code>\n                </p>\n            </li>\n            <li>\n
        <p>\n                    <code>Notequal</code>\n                </p>\n            </li>\n        </ul>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
```

```
}
        },
        "NextToken": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>",
            "smithy.api#length": {
              "min": 1,
              "max": 16384
            }
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
      "type": "structure",
      "members": {
        "Instances": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
          "traits": {
            "smithy.api#documentation":
 "<p>An array that contains instance objects.</p>"
          }
        },
        "NextToken": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
        },
```

```
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the Linux subscriptions that have been discovered. If you have linked your\n organization, the returned results will include data aggregated across your accounts in\n Organizations.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/ListLinuxSubscriptions"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "Subscriptions"
            }

        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>Subscription</code> with an optional operator to see subscriptions that match,\n partially match, or don't match a certain subscription's name.</p>\n <p>The valid names for this filter are:</p>\n <ul>\n <li>\n <p>\n <code>Subscription</code>\n </p>\n </li>\n </ul>\n <p>The valid Operators for this filter are:</p>\n <ul>\n <li>\n <p>\n <code>contains</code>\n </p>\n </li>\n <li>\n <p>\n <code>equals</code>\n </p>\n </li>\n <li>\n <p>\n <code>Notequal</code>\n </p>\n </li>\n </ul>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
```

```
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>",
                    "smithy.api#length": {

                     "min": 1,
                        "max": 16384
                    }
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
        "type": "structure",
        "members": {
            "Subscriptions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
                "traits": {
                    "smithy.api#documentation": "<p>An array that contains subscription objects.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for
 the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "name": "EQUAL",
                    "value": "Equal",
                    "documentation": "Equal operator"
                },
                {
                    "name": "NOT_EQUAL",
                    "value": "NotEqual",
```

"documentation": "Not equal operator"
},
{
"name": "CONTAINS",
"value": "Contains",
"documentation": "Contains operator"
}
],
"smithy.api#length": {
"min": 1,
"max": 20
}
}
},

"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "Enabled",
"value": "Enabled",
"documentation": "Enabled OrganizationIntegration"
},
{
"name": "Disabled",
"value": "Disabled",
"documentation": "Disabled OrganizationIntegration"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
"type": "list",
"member": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
"type": "string",
"traits": {
"smithy.api#enum": [

{
"name": "InProgress",
"value": "InProgress",
"documentation": "InProgress status"
},

```
            {
                "name": "Completed",
                "value": "Completed",
                "documentation": "Completed status"
            },
            {
                "name": "Successful",
                "value": "Successful",
                "documentation": "Successful status"
            },
            {
                "name": "Failed",
                "value": "Failed",
                "documentation": "Failed status"
            }
        ]
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
    "type": "list",
    "member": {
        "target": "smithy.api#String",
        "traits":
{
            "smithy.api#length": {
                "min": 1,
                "max": 100
            }
        }
    },
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 100
        },
        "smithy.api#uniqueItems": {}
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
    "type": "map",
    "key": {
        "target": "smithy.api#String"
    },
    "value": {
        "target": "smithy.api#String"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
```

"type": "structure",
"members": {
"Name": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription. "

}
},
"Type": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own\n Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the\n Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS. "
}
},
"InstanceCount": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
"traits": {
"smithy.api#documentation": " The total amount of running instances using this subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " An object which details a discovered Linux subscription. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request was denied due to request throttling. ",
"smithy.api#error": "client"
}
},

"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
},

"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates the service settings for Linux subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/UpdateServiceSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest":
{
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Describes if the discovery of Linux subscriptions is enabled. ",
"smithy.api#required": {}
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The
settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated
from. ",

"smithy.api#required": {}
}
},
"AllowUpdate": {
"target": "smithy.api#Boolean",
"traits": {
"smithy.api#documentation": " Describes if updates are allowed to the service settings for Linux subscriptions. If you\n allow updates, you can aggregate Linux subscription data in more than one home Region. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},

"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation":
" A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {

"smithy.api#documentation": " The Region in which License Manager displays the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The provided input is not valid. Try your request again. ",
"smithy.api#error": "client"
}
}
}
}

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
```

```
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - Beneficiary
 //   - ProductSKU
 //   - Fingerprint
 //
   - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
```

```
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
if err != nil {
 return err
}
if
err := addProtocolFinalizerMiddlewares(stack, options, "ListLicenses"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
     ServiceID,
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
```

```
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 //
 This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
```

```
}
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack,
options, "DisassociateLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
```

```
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
```

```
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource
 Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil
 {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
```

```
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier
 that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData
```

```
 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return
```

```
 err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
```

```
import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide
 to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration
```

```
 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity
 *types.DatetimeRange

 // Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string
```

```
 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
  return fmt.Errorf("add
 protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
```

```
  Region:       region,
  ServiceID:     ServiceID,
  OperationName:
 "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
```

```
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return
 err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
```

```
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack);
err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
```

```
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "GetLicense",
 }
}
```

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```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
```

```
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
   - ProductSKU
 //   - Status
 //   - Fingerprint
 //   - IssuerName
 //   - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense
```

```
 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
 middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
```

}
}

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```
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
        "smithy.api#error": "client"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
      "type": "structure",
      "members": {
        "DirectoryId": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation":
```

" Details about an Active Directory identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Associates the user to an EC2 instance to utilize user-based subscriptions. \n <note>\n Your estimated bill for charges on the number of users and related costs will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more information, see Viewing your\n monthly charges in the Amazon Web Services Billing User Guide. \n </note>",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/AssociateUser"
},
"smithy.api#idempotent": {}
}

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the
EC2 instance, which provides user-based subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>The identity provider of the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
        "type": "structure",
        "members": {
            "InstanceUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
                 "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
        "type": "integer"
```

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request couldn't be completed because it conflicted with the current
state of the\n      resource.</p>",
            "smithy.api#error": "server"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider":
 {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deregisters the identity provider from providing user-based
```

subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/DeregisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation":
" Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"

```
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Disassociates the user from an EC2 instance providing user-based
subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/DisassociateUser"
            },
            "smithy.api#idempotent": {}
        }

    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
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"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
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"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
}
},

"com.amazonaws.licensemanagerusersubscriptions#Filter": {
"type": "structure",
"members": {
"Attribute": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of an attribute to use as a filter. "
}
},
"Operation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of search (For example, eq, geq, leq) "

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                }
            },
            "Value": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Value of the filter.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A filter name and value pair that is used
 to return more specific results from a describe\n      operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n      attributes, or IDs.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#FilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
        }
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    "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
        "type": "union",
        "members": {
            "ActiveDirectoryIdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that details an Active Directory identity provider.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
 "<p>Details about an identity provider.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Settings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
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"traits": {
"smithy.api#documentation": " An object that details the registered identity providers product related configuration\n settings such as the subnets to provision VPC endpoints. ",
"smithy.api#required":
{}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of an identity provider. ",
"smithy.api#required": {}
}
},
"FailureMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The failure message associated with an identity provider. "
}
}
},
"traits": {
"smithy.api#documentation":
" Describes an identity provider. "
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"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
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"com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
"type": "structure",
"members": {
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}

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                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status
of an EC2 instance resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "Products": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>A list of provided user-based subscription products.</p>",
                    "smithy.api#required": {}
                }
            },
            "LastStatusCheckDate": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The date of the last status check.</p>"
                }
            },
            "StatusMessage": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status message for an EC2 instance.</p>"
                }

        }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes an EC2 instance providing user-based subscriptions.</p>"
        }
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    "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
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        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
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        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
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"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits":
{
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a user associated with an EC2 instance. ",
"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for users of an EC2 instance. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"AssociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was associated with an EC2 instance. "
}
},
"DisassociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was disassociated from an EC2 instance. "

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            }
          }

  },
        "traits": {
          "smithy.api#documentation": "<p>Describes users of an EC2 instance providing user-based
subscriptions.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
          "smithy.api#error": "server"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
        "type": "service",

       "version": "2018-05-10",
        "operations": [
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            "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
          },
          {
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"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
}
],
"traits": {
"aws.api#service": {
"sdkId": "License Manager User Subscriptions",
"arnNamespace": "license-manager-user-subscriptions",
"cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
},
"aws.auth#sigv4": {
"name": "license-manager-user-subscriptions"
},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",
"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",

"x-amzn-requestid",
"x-amzn-trace-id"

]
},
"smithy.api#documentation": " With License Manager, you can create user-based subscriptions to utilize licensed software with\n a per user subscription fee on Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager User Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}

},
"rules": [
{
"conditions": [
{
"fn": "isSet",
"argv": [
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                "ref": "Endpoint"
            }
        ]
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"type": "tree",
"rules": [
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseFIPS"
                    },

                true
                ]
            }
        ],
        "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
        "type": "error"
    },
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseDualStack"
                    },
                    true
                ]
            }
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"error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
        "type": "error"
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        "conditions": [],
        "endpoint": {
            "url": {
                "ref": "Endpoint"
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            "properties": {},
            "headers": {}
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                "type": "endpoint"
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                    "ref": "Region"
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        "rules": [
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                        "argv": [
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                                "ref": "Region"
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                        "assign": "PartitionResult"
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                                "argv": [
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                                        "ref": "UseFIPS"
                                    },
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                                "fn": "booleanEquals",
                                "argv": [
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"ref": "UseDualStack"

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"conditions": [
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"fn": "booleanEquals",
"argv": [
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{
"fn": "getAttr",

"argv": [
{
"ref": "PartitionResult"
},
"supportsFIPS"
]
}
]
},
{
"fn": "booleanEquals",
"argv": [
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{

"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsDualStack"
]
}
]
}
],
"type": "tree",
"rules": [
{

"conditions": [],
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
},
{
"conditions": [],
"error": "FIPS and DualStack are enabled, but this partition does not support one or both",
"type": "error"
}
]
},
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
},
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]
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],
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"fn": "booleanEquals",
"argv": [
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{
"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsFIPS"

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                    ]
                        }
                    ]
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fips.{Region}.{PartitionResult#dnsSuffix}",
                        "properties": {},
                        "headers": {}

        },
                    "type": "endpoint"
                }
            ]
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            "conditions": [],
            "error": "FIPS is enabled but this partition does not support FIPS",
            "type": "error"
        }
    ]
},
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    "conditions": [
        {
            "fn": "booleanEquals",
            "argv": [
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                    "ref": "UseDualStack"
                },
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            ]
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                    "argv": [
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"ref": "PartitionResult"
},
"supportsDualStack"
]
}
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}
],
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"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
},
{
"conditions": [],
"error": "DualStack is enabled but this partition does not support DualStack",
"type": "error"
}
]
},
{
"conditions": [],
"endpoint": {
"url": "https://license-manager-user-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
}
]

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                },
                {
                    "conditions":
[],
                    "error": "Invalid Configuration: Missing Region",
                    "type": "error"
                }
            ]
        },
        "smithy.rules#endpointTests": {
            "testCases": [
                {
                    "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
                    "expect": {
                        "endpoint": {
                            "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
                        }
                    },
                    "params": {
                        "Region": "us-east-1",
                        "UseFIPS": true,
                        "UseDualStack": true
                    }
                },
                {
                    "documentation":
"For region us-east-1 with FIPS enabled and DualStack disabled",
                    "expect": {
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                        }
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                    "params": {
                        "Region": "us-east-1",
                        "UseFIPS": true,
                        "UseDualStack": false
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                    "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
                    "expect": {
                        "endpoint": {
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                        }
                    },

                "params": {
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"UseFIPS": false,
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"expect": {
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}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with
FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
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"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
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"url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
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"params": {
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"UseFIPS": true,
"UseDualStack": false
}
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{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",

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}
},
"params": {
"Region": "cn-north-1",
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{
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with FIPS disabled and DualStack disabled",
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"endpoint": {
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}
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"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
}
},

"params": {
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}
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"UseDualStack": false
}
},
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"documentation": "For region us-gov-east-1
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"url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
}
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"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
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"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
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"url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
}
},

"params": {
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"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect":
{
"endpoint": {

"url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack":
true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
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"error": "FIPS and DualStack are enabled, but
this partition does not support one or both"
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"params": {
"Region": "us-isob-east-1",
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",

"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
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"params": {
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"UseFIPS": true,
"UseDualStack": false
}

},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"

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            }
        },
        {

"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
            "expect": {
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                }
            },
            "params": {
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                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
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            "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
            },
            "params": {
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                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips disabled and dualstack enabled",
            "expect": {
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "Missing region",
            "expect": {
                 "error": "Invalid Configuration: Missing Region"
            }
        }
    ],
    "version": "1.0"
```

```
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the identity providers for user-based subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/ListIdentityProviders"
            },
            "smithy.api#paginated":
{
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "IdentityProviderSummaries"
            }
```

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        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
{
        "type": "structure",
        "members": {
            "IdentityProviderSummaries": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
                    "smithy.api#required": {}
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
         },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
        },
        "errors": [
            {
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"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the EC2 instances providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/instance/ListInstances"
},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "InstanceSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
"type": "structure",
"members": {
"InstanceSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list instances operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},

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            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the user-based subscription products available from an identity
provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListProductSubscriptions"
            },
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "ProductUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name
 of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
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"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {

"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
"type": "structure",
"members": {
"ProductUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list product subscriptions operation. "
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target":
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists user associations for an identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/ListUserAssociations"
},
"smithy.api#paginated":
{
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "InstanceUserSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
"type": "structure",
"members": {
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based
subscriptions. ",

"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
"type": "structure",
"members": {
"InstanceUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list user association operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}

```
    }
  },
  "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
    "type": "structure",
    "members": {

    "Username": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
          "smithy.api#required": {}
        }
      },
      "Product": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
          "smithy.api#required": {}
        }
      },
      "IdentityProvider": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
        "traits": {
          "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
          "smithy.api#required": {}
        }

},
      "Status": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>The status of a product for a user.</p>",
          "smithy.api#required": {}
        }
      },
      "StatusMessage": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>The status message for a product for a user.</p>"
        }
      },
      "Domain": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>The domain name of the user.</p>"
        }
      },
      "SubscriptionStartDate": {
```

"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The
start date of a subscription. "
}
},
"SubscriptionEndDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The end date of a subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " The summary of the user-based subscription products for a user. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{

"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Registers an identity provider for user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/RegisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings such as the\n subnets to provision VPC endpoints. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary":

{
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The resource couldn't be found. ",
"smithy.api#error": "client",
"smithy.api#httpError": 404
}
},
"com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
"type": "string",

"traits": {
"smithy.api#length": {
"min": 5,
"max": 200
},
"smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request failed because a service quota is exceeded. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Settings": {
"type": "structure",

"members": {
"Subnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation":
" The subnets defined for the registered identity provider. ",
"smithy.api#length": {
"min": 1
},
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID that allows inbound TCP port 1688
communication between resources in\n your VPC and the VPC endpoint for activation servers. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings
such as the\n subnets to provision VPC endpoints, and the security group ID that
is associated with the VPC\n endpoints. The security group should permit inbound TCP port 1688
communication from resources\n in the VPC. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"

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            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Starts a product subscription for a user with the specified identity
provider.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related costs
will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status)
in Amazon Web Services Billing.
 For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n        monthly
charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/StartProductSubscription"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                 "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
```

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                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
        "type": "structure",
         "members": {
            "ProductUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the start product subscription
operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

  },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
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            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Stops a product subscription for a user with the specified identity
provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/StopProductSubscription"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required":
 {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
```

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        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
        "type": "structure",
        "members": {
            "ProductUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
                "traits": {
                    "smithy.api#documentation":
 "<p>Metadata that describes the start product subscription operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StringList": {
        "type": "list",
        "member": {
            "target": "smithy.api#String"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Subnet": {
        "type": "string",
        "traits": {
            "smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Subnets": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
            "message": {

             "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request was denied because of request throttling. Retry the
request.</p>",
            "smithy.api#error": "client"
        }
    },
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"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
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"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
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"traits": {
"smithy.api#documentation": " Updates additional product configuration settings for the registered identity\n provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/UpdateIdentityProviderSettings"
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"smithy.api#required": {}
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"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
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"UpdateSettings": {
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"smithy.api#required": {}
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"smithy.api#documentation": " The ID of one or more subnets in which License Manager will create a VPC endpoint for products that\n require connectivity to activation servers. ",
"smithy.api#required": {}
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"RemoveSubnets": {
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"traits": {
"smithy.api#documentation": " The ID of one or more subnets to remove. ",
"smithy.api#required": {}
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"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID

that allows inbound TCP port 1688 communication between resources in\n your VPC and the VPC endpoints for activation servers. "
}
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"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings such as\n the subnets to provision VPC endpoints. "
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"message": {
"target": "smithy.api#String"
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"traits": {
"smithy.api#documentation": " A parameter is not valid. ",
"smithy.api#error": "client"
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"id": "HttpUriConflict",
"namespace": "*"
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                "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
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      "target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

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      "target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
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      "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
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      "target": "com.amazonaws.licensemanager#GetLicenseUsage"
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      "target": "com.amazonaws.licensemanager#GetServiceSettings"
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"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
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"target": "com.amazonaws.licensemanager#UpdateServiceSettings"
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"arnNamespace": "license-manager",
"cloudFormationName": "LicenseManager",
"cloudTrailEventSource": "licensemanager.amazonaws.com",
"endpointPrefix": "license-manager"
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"aws.auth#sigv4": {
"name": "license-manager"
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"aws.protocols#awsJson1_1": {},
"smithy.api#documentation": " License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers. ",
"smithy.api#title": "AWS License Manager",
"smithy.api#xmlNamespace": {
"uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
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"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
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"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
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"UseDualStack": {
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"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
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"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
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"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
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"ref": "Endpoint"
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"ref": "UseFIPS"
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        "type": "error"
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        "type": "error"
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            "headers": {}
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        "type": "endpoint"
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        "argv": [
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manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
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"type": "error"
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"testCases": [
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"expect": {
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"params": {
"Region": "af-south-1",
"UseFIPS": false,

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      "params": {
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        "UseDualStack": false
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      "expect": {
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        "UseFIPS": false,
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        "UseDualStack": false
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            "params": {
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"params": {
"Region": "ap-southeast-3",
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"params": {
"Region": "ca-central-1",
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"documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
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disabled and DualStack disabled",
"expect": {
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"UseDualStack": false
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            "UseDualStack": false
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          "params": {
            "Region": "sa-east-1",
            "UseFIPS": false,
            "UseDualStack": false
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"documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
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"params": {
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"UseDualStack": false
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    },
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        "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-fips.us-east-1.api.aws"
            }
        },
        "params": {
            "Region": "us-east-1",
            "UseFIPS": true,

            "UseDualStack": true
        }
    },
    {
        "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.us-east-1.api.aws"
            }
        },
        "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": true
        }
    },
    {
        "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url":
"https://license-manager.cn-north-1.amazonaws.com.cn"
            }
        },
        "params": {
            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
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"expect": {
"endpoint": {
"url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-northwest-1",
"UseFIPS": false,
"UseDualStack": false

}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,

"UseDualStack": true
}
},

{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-gov-west-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-west-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation":
"For region us-gov-west-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {

"url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-west-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-gov-east-1.api.aws"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false

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            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": true,
                 "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
                }
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": true,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
                "error": "DualStack is enabled
but this partition does not support DualStack"
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
                }
            },
            "params": {
                "Region": "us-isob-east-1",
                "UseFIPS": false,
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"UseDualStack": false
}
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
}
},

"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

"expect": {
"endpoint": {
"url": "https://example.com"
}
},

"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,

"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error":
"Invalid Configuration: Dualstack and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true,
"Endpoint": "https://example.com"
}
},
{

"documentation": "Missing region",
"expect": {
"error": "Invalid Configuration: Missing Region"
}
}
],
"version": "1.0"
}
}
},
"com.amazonaws.licensemanager#AcceptGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#AcceptGrantRequest"

},
"output": {
"target": "com.amazonaws.licensemanager#AcceptGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"

}
],
"traits": {
"smithy.api#documentation": " Accepts the specified grant. "
}
},
"com.amazonaws.licensemanager#AcceptGrantRequest": {

"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#AcceptGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant
ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#AccessDeniedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},

"traits": {
"aws.protocols#awsQueryError": {

"code": "ServiceAccessDenied",
"httpResponseCode": 401
},
"smithy.api#documentation": " Access to resource denied. ",
"smithy.api#error": "client",
"smithy.api#httpError": 401
}
},
"com.amazonaws.licensemanager#ActivationOverrideBehavior": {
"type": "enum",
"members": {
"DISTRIBUTED_GRANTS_ONLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
}
},
"ALL_GRANTS_PERMITTED_BY_ISSUER": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
}
}
}
},
"com.amazonaws.licensemanager#AllowedOperation": {

"type": "enum",
"members": {
"CREATE_GRANT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CreateGrant"
}
},
"CHECKOUT_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckoutLicense"
}
},
"CHECKOUT_BORROW_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckoutBorrowLicense"

```
            }
        },
        "CHECK_IN_LICENSE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "CheckInLicense"
            }
        },
        "EXTEND_CONSUMPTION_LICENSE":
{
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "ExtendConsumptionLicense"
            }
        },
        "LIST_PURCHASED_LICENSES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "ListPurchasedLicenses"
            }
        },
        "CREATE_TOKEN": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "CreateToken"
            }
        }
    }
},
"com.amazonaws.licensemanager#AllowedOperationList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#AllowedOperation"
    },
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max":
7
        }
    }
},
"com.amazonaws.licensemanager#Arn": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 2048
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```
            },
            "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
        }
    },
    "com.amazonaws.licensemanager#ArnList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Arn"
        }
    },
    "com.amazonaws.licensemanager#AuthorizationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError":
 {
                "code": "AuthorizationFailure",
                "httpResponseCode": 403
            },
            "smithy.api#documentation": "<p>The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n        policy associated with this account.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 403
        }
    },
    "com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
        "type": "structure",
        "members": {
            "LastRunTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes automated discovery.</p>"
        }
    },

  "com.amazonaws.licensemanager#Boolean": {
        "type": "boolean",
        "traits": {
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"smithy.api#default": false
}
},
"com.amazonaws.licensemanager#BorrowConfiguration": {
"type": "structure",
"members": {
"AllowEarlyCheckIn": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether early check-ins are allowed. ",
"smithy.api#required": {}
}
},
"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the borrow configuration, in minutes. ",
"smithy.api#required": {}
}
}

},
"traits": {
"smithy.api#documentation": " Details about a borrow configuration. "
}
},
"com.amazonaws.licensemanager#BoxBoolean": {
"type": "boolean"
},
"com.amazonaws.licensemanager#BoxInteger": {
"type": "integer"
},
"com.amazonaws.licensemanager#BoxLong": {
"type": "long"
},
"com.amazonaws.licensemanager#CheckInLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{

"target": "com.amazonaws.licensemanager#AuthorizationException"

},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks in the specified license. Check in a license when it is no longer in use. "
}
},
"com.amazonaws.licensemanager#CheckInLicenseRequest":
{
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
}
},
"traits": {
"smithy.api#input": {}
}

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    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicense":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members":
 {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
                    "smithy.api#required": {}
                }
            },
            "DigitalSignatureMethod": {
                "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
                "traits": {
                    "smithy.api#documentation": "<p>Digital signature method. The possible
 value is JSON Web Signature (JWS) algorithm PS384.\n        For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>",
                    "smithy.api#required": {}
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
```

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            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation":
"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>"
                }
            },
            "EntitlementsAllowed":
{
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "SignedToken": {
                "target": "com.amazonaws.licensemanager#SignedToken",
                "traits": {
                    "smithy.api#documentation": "<p>Signed token.</p>"
                }
            },
```

"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},

```
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license.</p>\n        <note>\n            <p>If the
account that created the license is the same that is performing the check out, you must\n            specify the account
as the beneficiary.</p>\n        </note>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutLicenseRequest": {
        "type": "structure",
        "members": {
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product
 SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "CheckoutType": {
                "target": "com.amazonaws.licensemanager#CheckoutType",
                "traits": {
                    "smithy.api#documentation": "<p>Checkout type.</p>",
                    "smithy.api#required": {}
                }
            },
            "KeyFingerprint": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Key fingerprint identifying the license.</p>",
                    "smithy.api#required": {}
                }
            },
```

"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. ",

"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
"type": "structure",
"members": {
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}

```
            },
            "EntitlementsAllowed": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
                }
            },
             "SignedToken": {
                "target": "com.amazonaws.licensemanager#SignedToken",
                "traits": {
                    "smithy.api#documentation": "<p>Signed token.</p>"
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "IssuedAt": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
                }
            },
            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and
time at which the license checkout expires.</p>"
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutType": {
        "type": "enum",
        "members": {
            "PROVISIONAL": {
                "target": "smithy.api#Unit",
```

"traits": {
"smithy.api#enumValue": "PROVISIONAL"
}
},
"PERPETUAL": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PERPETUAL"
}
}
}
},
"com.amazonaws.licensemanager#ClientRequestToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 36
}
}
},
"com.amazonaws.licensemanager#ClientToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#ConflictException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ConflictException",
"httpResponseCode":
409
},
"smithy.api#documentation": " There was a conflict processing the request. Try your request again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 409

```
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
                }
            },
            "ConsumedLicenses": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
                }
            }
        },

"traits": {
            "smithy.api#documentation": "<p>Details about license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
        }
    },
    "com.amazonaws.licensemanager#ConsumptionConfiguration": {
        "type": "structure",
        "members": {
            "RenewType": {
                "target": "com.amazonaws.licensemanager#RenewType",
                "traits": {
                    "smithy.api#documentation": "<p>Renewal frequency.</p>"
                }
            },
            "ProvisionalConfiguration": {
                "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
                 }
            },
            "BorrowConfiguration": {
                "target": "com.amazonaws.licensemanager#BorrowConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
```

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                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of
license\n        entitlements with a specific Amazon Web Services account, an organization, or an\n
organizational unit (OU). For more
 information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantRequest": {
```

"type": "structure",
"members": {
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}

}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Principals": {
"target": "com.amazonaws.licensemanager#PrincipalArnList",
"traits": {
"smithy.api#documentation": " The grant principals. You can specify one of the following as an Amazon Resource Name\n (ARN): \n \n \n An Amazon Web Services account, which includes only the account specified. \n \n \n \n \n An organizational unit (OU), which includes all accounts in the OU. \n \n \n \n
\n An organization, which will include all accounts across your organization. \n \n ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {

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                "smithy.api#documentation": "<p>Allowed operations for the grant.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},

"com.amazonaws.licensemanager#CreateGrantResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateGrantVersion":
{
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information, see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",

    "smithy.api#required": {}
                }
            },
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
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"smithy.api#documentation": " Grant name. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the grant. "
}
},
"Options": {
"target": "com.amazonaws.licensemanager#Options",
"traits": {
"smithy.api#documentation": " The options specified for the grant. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {

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            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>New version of the grant.</p>"
            }
        }
    },
    "traits":
{
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
         },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
```

"traits": {
"smithy.api#documentation": " Creates a license. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Creates a license configuration. \n A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a \n license must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. ",

"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension used to track the license inventory. ",
"smithy.api#required": {}
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows. \n \n \n \n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n <code>licenseAffinityToHost</code> |\n <code>maximumCores</code> | <code>minimumCores</code>\n \n \n \n \n <code>Instances</code> dimension: <code>allowedTenancy</code> | \n <code>maximumCores</code> | <code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n \n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n <code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code>\n \n \n \n \n <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n <code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n The unit for

<code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>. "
}
},

"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the license configuration. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
"type": "operation",

"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a new license conversion task. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {

"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource you are converting the license type for. ",
"smithy.api#required": {}
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting from. \n\n For the structure of the source license, see Convert a license type using the CLI in

the License Manager User Guide. ",
"smithy.api#required": {}
}
},
"DestinationLicenseContext":
{
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting to. For the structure of the destination license, see Convert a license type using the CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

"traits": {
"smithy.api#documentation": " The ID of the created license type conversion task. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a report generator. "
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"ReportGeneratorName":
{
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types an be generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}

}
},

"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " Defines the type of license configuration the report generator tracks. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " The Amazon Resource Name (ARN) of the new report generator. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseRequest": {
"type": "structure",
"members": {
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. ",
"smithy.api#required": {}
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits": {
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region for the license. ",
"smithy.api#required": {}

}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
},

```
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        },
        "Version": {
             "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target":
"com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product name.</p>",
                    "smithy.api#required": {}
                }
            },
            "Issuer": {
                "target": "com.amazonaws.licensemanager#Issuer",
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"traits":
{
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},

"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. ",

"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New version of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
}
},
"traits": {
"smithy.api#output":

{}
}
},
"com.amazonaws.licensemanager#CreateToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},

{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a long-lived token. \n A refresh token is a JWT token used to get an access token. With an access token,\n you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n call License Manager to manage the specified license. "
}
},
"com.amazonaws.licensemanager#CreateTokenRequest": {
"type": "structure",
"members": {
"LicenseArn": {

"target": "com.amazonaws.licensemanager#Arn",
"traits":
{
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n JWT token. ",
"smithy.api#required": {}
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n License Manager does not check whether the roles are in use. "
}
},
"ExpirationInDays": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Token expiration, in days, counted from token creation. The default is 365 days. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller to be included in the JWT token. The data is mapped\n to the amr claim of the JWT token. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Idempotency token, valid for 10 minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateTokenResponse": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",

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            "traits": {
                "smithy.api#documentation": "<p>Token ID.</p>"
            }
        },
        "TokenType": {
            "target": "com.amazonaws.licensemanager#TokenType",
            "traits": {
                "smithy.api#documentation": "<p>Token type.</p>"
            }
        },
        "Token": {
            "target": "com.amazonaws.licensemanager#TokenString",
            "traits": {
                "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#DateTime": {
    "type": "timestamp"
},
"com.amazonaws.licensemanager#DatetimeRange": {
    "type": "structure",
    "members": {
        "Begin": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Start of the time range.</p>",
                "smithy.api#required": {}
            }
        },
        "End": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>End of the time range.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
    }
},
"com.amazonaws.licensemanager#DeleteGrant": {
    "type": "operation",
    "input": {
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"target": "com.amazonaws.licensemanager#DeleteGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes
the specified grant. "
}
},
"com.amazonaws.licensemanager#DeleteGrantRequest": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " The Status reason for the delete request. "
}

```
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the
grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
```

```
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#RedirectException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Deletes the specified license.</p>"
        }
      },
      "com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
        },

      "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
```

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license configuration.</p>\n        <p>You cannot
delete a license configuration that is in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
        "type": "structure",
        "members":
{
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
         },
        "errors": [
            {
```

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified report generator. \n This action deletes the report generator, which stops it from generating future reports.\n The action cannot be reversed. It has no effect on the previous reports from this generator. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to be deleted. ",
"smithy.api#required": {}
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {

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        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>",
                    "smithy.api#required":
{}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseResponse": {
        "type": "structure",
        "members": {
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>"
                }
            },
            "DeletionDate": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date when the license is deleted.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
```

```
    },
    "com.amazonaws.licensemanager#DeleteToken": {
        "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },

    {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>",
                    "smithy.api#required": {}
                }
            }
```

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        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}

      }
    },
    "com.amazonaws.licensemanager#DigitalSignatureMethod": {
        "type": "enum",
        "members": {
            "JWT_PS384": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "JWT_PS384"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#Entitlement": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement name.</p>",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement resource. Use only
if the unit is None.</p>"
                }
            },
            "MaxCount": {
                "target": "com.amazonaws.licensemanager#Long",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
                }
            },
            "Overage": {
```

"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether overages are allowed. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementUnit",
"traits": {
"smithy.api#documentation": " Entitlement unit. ",
"smithy.api#required": {}
}
},
"AllowCheckIn": {
"target":
"com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether check-ins are allowed. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a resource entitled for use with a license. "
}
},
"com.amazonaws.licensemanager#EntitlementData": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement
data value. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {
"smithy.api#documentation": " Entitlement data unit. ",
"smithy.api#required": {}
}
}

```
        },
        "traits": {
            "smithy.api#documentation": "<p>Data associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementDataList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementData"
        }
    },
    "com.amazonaws.licensemanager#EntitlementDataUnit": {
        "type": "enum",
        "members": {
            "COUNT": {
                "target": "smithy.api#Unit",
                "traits": {

"smithy.api#enumValue": "Count"
                }
            },
            "NONE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "None"
                }
            },
            "SECONDS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Seconds"
                }
            },
            "MICROSECONDS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Microseconds"
                }
            },
            "MILLISECONDS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Milliseconds"
                }
            },
            "BYTES": {
                "target": "smithy.api#Unit",
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            "traits": {
                "smithy.api#enumValue": "Bytes"
            }
        },
        "KILOBYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes"
            }
        },
        "MEGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes"
            }
        },
        "GIGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
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            }
        },
        "TERABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabytes"
            }
        },
        "BITS":
{
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bits"
            }
        },
        "KILOBITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobits"
            }
        },
        "MEGABITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabits"
            }
        },
        "GIGABITS": {
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            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabits"
            }
        },
        "TERABITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits"

}
        },
        "PERCENT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Percent"
            }
        },
        "BYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bytes/Second"
            }
        },
        "KILOBYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes/Second"
            }
        },
        "MEGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes/Second"
            }
        },
        "GIGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Gigabytes/Second"
            }
        },
        "TERABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabytes/Second"
            }
        },
```

"BITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits/Second"
}
},
"KILOBITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits/Second"
}
},
"MEGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue":
"Megabits/Second"
}
},
"GIGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits/Second"
}
},
"TERABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits/Second"
}
},
"COUNT_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count/Second"
}
}
}
},
"com.amazonaws.licensemanager#EntitlementList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Entitlement"
}
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
"type": "structure",

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        "members": {
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 400
        }
      },
      "com.amazonaws.licensemanager#EntitlementUnit": {
        "type": "enum",
        "members": {
          "COUNT": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Count"
            }
          },
          "NONE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "None"
            }
          },
          "SECONDS":
{
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Seconds"
            }
          },
          "MICROSECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Microseconds"
            }
          },
          "MILLISECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Milliseconds"
            }
          },
          "BYTES": {
            "target": "smithy.api#Unit",
            "traits": {
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"smithy.api#enumValue": "Bytes"
}
},
"KILOBYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes"
}
},
"MEGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes"
}
},
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"traits": {
"smithy.api#enumValue": "Gigabytes"
}
},
"TERABYTES": {
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"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"
}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target":
"smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"
}
},
"KILOBYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes/Second"
}
},
"MEGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes/Second"
}
},
"GIGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes/Second"
}
},
"TERABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Terabytes/Second"
}
},

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        "BITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bits/Second"
            }
        },
        "KILOBITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobits/Second"
            }
        },
        "MEGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabits/Second"
            }
        },
        "GIGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabits/Second"
            }
        },

    "TERABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits/Second"
            }
        },
        "COUNT_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Count/Second"
            }
        }
    }
},
"com.amazonaws.licensemanager#EntitlementUsage": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                "smithy.api#required": {}
            }
```

```
            },
            "ConsumedValue": {
                "target": "com.amazonaws.licensemanager#String",

           "traits": {
                    "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxCount": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
                }
            },
            "Unit": {
                "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementUsageList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}

      }
            },
            "DryRun": {
                "target": "com.amazonaws.licensemanager#Boolean",
                "traits": {
                    "smithy.api#default": false,
                    "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
        "type": "structure",
        "members": {
```

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            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>"
                }
            },

            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#FailedDependencyException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            },
            "ErrorCode": {
                "target": "com.amazonaws.licensemanager#String"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "FailedDependency",
                "httpResponseCode": 424
            },
            "smithy.api#documentation":
"<p>A dependency required to run the API is missing.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 424
        }
    },
    "com.amazonaws.licensemanager#Filter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#FilterName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the filter. Filter names are case-sensitive.</p>"
                }
            },
```

"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " The value of the filter, which is case-sensitive. You can only specify one value for the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter name and value pair that is used to return more specific results from a\n describe operation. Filters can be used to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FilterLimitExceeded",
"httpResponseCode": 400
},
"smithy.api#documentation": " The request uses too many filters or too many filter values. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter"
}
},
"com.amazonaws.licensemanager#FilterName": {
"type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
"type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#FilterValue",
"traits": {

"smithy.api#xmlName": "item"
}
}
},
"com.amazonaws.licensemanager#Filters": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter",
"traits": {
"smithy.api#xmlName": "item"
}
}
},
"com.amazonaws.licensemanager#GetAccessToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access
tokens\n are valid for one hour. "
}
},
"com.amazonaws.licensemanager#GetAccessTokenRequest": {
"type": "structure",
"members": {
"Token": {

"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token, encoded as a JWT token. ",
"smithy.api#required": {}
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Token properties to validate against those present in the JWT token. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetAccessTokenResponse": {
"type": "structure",
"members": {
"AccessToken": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Temporary access token. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"

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    },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
```

"smithy.api#documentation": " Grant details. "
}
}
},
"traits": {

"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"

},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license configuration. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
}
},
"traits":
{
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Unique ID for the license configuration. "

```
    }
},
"LicenseConfigurationArn": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    }
},
"Name": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
        "smithy.api#documentation": "<p>Name of the license configuration.</p>"
     }
},
"Description": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
        "smithy.api#documentation": "<p>Description of the license configuration.</p>"
    }
},
"LicenseCountingType": {
    "target": "com.amazonaws.licensemanager#LicenseCountingType",
    "traits": {
        "smithy.api#documentation": "<p>Dimension for which the licenses are counted.</p>"
    }
},
"LicenseRules": {
    "target": "com.amazonaws.licensemanager#StringList",
    "traits": {
        "smithy.api#documentation": "<p>License rules.</p>"
    }
},
"LicenseCount": {
    "target": "com.amazonaws.licensemanager#BoxLong",

   "traits": {
        "smithy.api#documentation": "<p>Number of available licenses.</p>"
    }
},
"LicenseCountHardLimit": {
    "target": "com.amazonaws.licensemanager#BoxBoolean",
    "traits": {
        "smithy.api#documentation": "<p>Sets the number of available licenses as a hard limit.</p>"
    }
},
"ConsumedLicenses": {
    "target": "com.amazonaws.licensemanager#BoxLong",
    "traits": {
```

"smithy.api#documentation": " Number of licenses assigned to resources. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License configuration status. "
}

},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",

"traits": {
"smithy.api#documentation": " When
true, disassociates a resource when software is uninstalled. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified license type conversion task. "
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information
on. ",

"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted to. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " Status of the license type conversion task. "
}

```
            },

  "StartTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
                }
            },
            "LicenseConversionTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
                }
            },
            "EndTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator":
 {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
                    "smithy.api#required":
 {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {
            "ReportGenerator": {
                "target": "com.amazonaws.licensemanager#ReportGenerator",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
```

```
    },
    "com.amazonaws.licensemanager#GetLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {

"smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseResponse": {
        "type": "structure",
        "members": {
            "License": {
                "target": "com.amazonaws.licensemanager#License",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },

  "com.amazonaws.licensemanager#GetLicenseUsage": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
        },
        "errors": [
            {
```

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the usage of the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseUsageRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseUsageResponse": {
"type": "structure",
"members": {
"LicenseUsage": {
"target":
"com.amazonaws.licensemanager#LicenseUsage",
"traits": {
"smithy.api#documentation": " License usage details. "
}
}

```
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
discovery data,\n         and so on.</p>"
```

```
 }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>SNS topic configured to receive notifications from License
Manager.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether Organizations is integrated with License
Manager for\n        cross-account discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether cross-account discovery is enabled.</p>"
                }

        },
            "LicenseManagerResourceShareArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
Manager management account \n        provides member accounts with access to this share.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Grant": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"ParentArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Parent ARN. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. ",
"smithy.api#required": {}
}
},
"GranteePrincipalArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {

"smithy.api#documentation": " The grantee principal ARN. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},

```
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Granted operations.</p>",
                    "smithy.api#required": {}
                }
            },
            "Options": {
                "target": "com.amazonaws.licensemanager#Options",
                "traits": {
                    "smithy.api#documentation": "<p>The options specified for the grant.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
"<p>Describes a grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#GrantList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Grant"
        }
    },
    "com.amazonaws.licensemanager#GrantStatus": {
        "type": "enum",
        "members": {
            "PENDING_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_WORKFLOW"
                }
            },
            "PENDING_ACCEPT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_ACCEPT"
                }
            },
            "REJECTED": {
```

"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REJECTED"

}
},
"ACTIVE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ACTIVE"
}
},
"FAILED_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "FAILED_WORKFLOW"
}
},
"DELETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DELETED"
}
},
"PENDING_DELETE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_DELETE"
}
},
"DISABLED": {
"target": "smithy.api#Unit",
"traits":
{
"smithy.api#enumValue": "DISABLED"
}
},
"WORKFLOW_COMPLETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "WORKFLOW_COMPLETED"
}
}
}
},
"com.amazonaws.licensemanager#GrantedLicense": {
"type": "structure",
"members": {

"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. "
}

},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " Granted license issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the granted license. "

}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " Granted license status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the granted license is valid, in

ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Granted license beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Granted license metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Creation time of the granted license. "

}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Version of the granted license. "
}
},
"ReceivedMetadata": {
"target": "com.amazonaws.licensemanager#ReceivedMetadata",
"traits": {
"smithy.api#documentation": " Granted license received metadata. "
}
}
},
"traits": {

"smithy.api#documentation": " Describes a license that is granted to a grantee. "
}
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#GrantedLicense"
}
},
"com.amazonaws.licensemanager#ISO8601DateTime":
{
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
}
},
"com.amazonaws.licensemanager#Integer": {
"type": "integer"
},
"com.amazonaws.licensemanager#InvalidParameterValueException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidParameterValueProvided",
"httpResponseCode": 400
},
"smithy.api#documentation":
" One or more parameter values are not valid. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#InvalidResourceStateException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}

```
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidResourceState",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n        <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },

    "com.amazonaws.licensemanager#InventoryFilter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the filter.</p>",
                    "smithy.api#required": {}
                }
            },
            "Condition": {
                "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
                "traits": {
                    "smithy.api#documentation": "<p>Condition of the filter.</p>",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Value of the filter.</p>"
                }
            }

    },
        "traits": {
            "smithy.api#documentation": "<p>An inventory filter.</p>"
        }
    },
    "com.amazonaws.licensemanager#InventoryFilterCondition": {
        "type": "enum",
        "members": {
            "EQUALS": {
                "target": "smithy.api#Unit",
```

"traits": {
"smithy.api#enumValue": "EQUALS"
}
},
"NOT_EQUALS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "NOT_EQUALS"
}
},
"BEGINS_WITH": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "BEGINS_WITH"
}
},
"CONTAINS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CONTAINS"
}
}
}
},
"com.amazonaws.licensemanager#InventoryFilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#InventoryFilter"
}
},
"com.amazonaws.licensemanager#Issuer": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. ",
"smithy.api#required": {}
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage
of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
}

```
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about the issuer of a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#IssuerDetails": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>"
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
                }
            },
            "KeyFingerprint": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#License": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {

            "smithy.api#documentation": "<p>License name.</p>"
                }
```

},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " License issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Home Region of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"Entitlements": {

"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " License metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License
creation time. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#documentation": " Software license that is managed in License Manager. "
}
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
"type": "structure",
"members": {
"LicenseConfigurationId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Unique ID of the license configuration. "
}
},
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "

```
            }
        },
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the license configuration.</p>"
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
                "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
            }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules.</p>"
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Number of available licenses as a hard limit.</p>"
            }
        },
        "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
```

"smithy.api#documentation": " Number of licenses consumed. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the license configuration. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the license configuration's owner. "

}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for licenses consumed by various resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {

"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "

```
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
        "type": "structure",
        "members": {
            "ResourceArn":
 {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of server resource.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the resource
consuming licenses.</p>"
                }
            },
            "AssociationTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {

    "smithy.api#documentation": "<p>Time when the license configuration was associated with the resource.</p>"
                }
            },
            "AmiAssociationScope": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes an association with a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
```

```
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
        "type": "enum",
        "members":
{
            "AVAILABLE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "AVAILABLE"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DISABLED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits":
{
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceStatus": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Status of the resource.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
                }
            },
```

"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was initially associated with the resource. "
}
},

"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
}
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfiguration"
}
},
"com.amazonaws.licensemanager#LicenseConversionContext": {

"type": "structure",
"members": {
"UsageOperation": {
"target": "com.amazonaws.licensemanager#UsageOperation",
"traits": {
"smithy.api#documentation": " The Usage operation value that corresponds to the license type you are converting your resource from. For more information about which platforms correspond to which usage operation values see Sample data: usage operation by platform\n \n "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "

```
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTask": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {

     "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the license type conversion task.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource associated
with the license type\n        conversion task.</p>"
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license type this conversion task converted
from.</p>"
                }
            },
            "DestinationLicenseContext": {
                "target":
 "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license type this conversion task converted
to.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
                "traits": {
                    "smithy.api#documentation": "<p>The status of the conversion task.</p>"
                }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
                }
            },
            "StartTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
```

```
                "traits": {
                    "smithy.api#documentation":
 "<p>The time the conversion task was started at.</p>"
                }
            },
            "LicenseConversionTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>The time the usage operation value of the resource was
changed.</p>"
                }
            },
            "EndTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTaskId": {
        "type": "string",
        "traits": {

        "smithy.api#length": {
                "min": 0,
                "max": 50
            },
            "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
        "type": "enum",
        "members": {
            "IN_PROGRESS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "IN_PROGRESS"
                }
            },
            "SUCCEEDED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "SUCCEEDED"
                }
```

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            },
            "FAILED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "FAILED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTasks":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTask"
        }
    },
    "com.amazonaws.licensemanager#LicenseCountingType": {
        "type": "enum",
        "members": {
            "VCPU": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "vCPU"
                }
            },
            "INSTANCE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Instance"
                }
            },
            "CORE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Core"
                }
            },
            "SOCKET": {
                "target": "smithy.api#Unit",
                 "traits": {
                    "smithy.api#enumValue": "Socket"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#LicenseDeletionStatus": {
        "type": "enum",
        "members": {
```

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        "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {

    "type": "structure",
    "members": {
        "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
        },
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Resource type.</p>"
            }
        },
        "ErrorMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Error message.</p>"
            }
        },
        "FailureTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {

"smithy.api#documentation": "<p>Failure time.</p>"
            }
```

```
            },
            "OperationName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the operation.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the
resource.</p>"
                }
            },
            "OperationRequestedBy": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The requester is \"License Manager Automated Discovery\".</p>"
                }
            },
            "MetadataList": {

                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Reserved.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes the failure of a license operation.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseOperationFailureList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailure"
        }
    },
    "com.amazonaws.licensemanager#LicenseSpecification": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
```

"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseSpecification"
}
},
"com.amazonaws.licensemanager#LicenseStatus": {
"type": "enum",
"members": {
"AVAILABLE": {
"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "AVAILABLE"
}
},
"PENDING_AVAILABLE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_AVAILABLE"
}
},
"DEACTIVATED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DEACTIVATED"
}
},
"SUSPENDED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SUSPENDED"
}

```
        },
        "EXPIRED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EXPIRED"
            }
        },

     "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseUsage": {
    "type": "structure",
    "members": {
        "EntitlementUsages": {
            "target": "com.amazonaws.licensemanager#EntitlementUsageList",
            "traits": {
                "smithy.api#documentation": "<p>License entitlement usages.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes the entitlement usage associated with a license.</p>"

    }
},
"com.amazonaws.licensemanager#LicenseUsageException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "LicenseUsageFailure",
            "httpResponseCode": 412
```

```
            },
            "smithy.api#documentation": "<p>You do not have enough licenses available to support a new resource
launch.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 412
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
        },
        "output": {

    "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the resource associations for the
 specified license configuration.</p>\n        <p>Resource associations need not consume licenses from a license
configuration. \n        For example, an AMI or a stopped instance might not consume a license (depending on \n
the license rules).</p>"
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results
to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationAssociations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license
configuration. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {

"target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants distributed for the specified license. "
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n

```
<li>\n <p>\n <code>GranteePrincipalARN</code>\n </p>\n </li>\n
<li>\n <p>\n <code>ProductSKU</code>\n </p>\n </li>\n <li>\n
<p>\n <code>LicenseIssuerName</code>\n
</p>\n </li>\n </ul>"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": "<p>Token for the next set of results.</p>"
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",

"traits": {
"smithy.api#documentation": "<p>Distributed grant details.</p>"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": "<p>Token for the next set of results.</p>"
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
```

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
        },
        "errors": [
            {

"target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configuration operations that failed.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
```

```
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse":
{
        "type": "structure",
        "members": {
            "LicenseOperationFailureList": {
                "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
                "traits": {
                    "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurations": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },

    "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations
 for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next
 set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n                Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n                Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n                <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n                Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n
    </li>\n            <li>\n                <p>\n                <code>usagelimitExceeded</code> - A Boolean value that
indicates whether the available licenses have been exceeded. \n                Logical operators are
```

```
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n         </ul>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurations": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurations",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",

         "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasks": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
```

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license type conversion tasks for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
"type": "structure",
"members": {
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " \n Filters to scope the results. Valid filters are <code>ResourceArns</code> and <code>Status</code>.\n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
"type": "structure",
"members": {
"LicenseConversionTasks": {
"target": "com.amazonaws.licensemanager#LicenseConversionTasks",
"traits": {
"smithy.api#documentation": " Information about the license configuration tasks for your account. "
}
},

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            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the report generators for your account.</p>"
```

```
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest":
{
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:
</p>\n        <ul>\n            <li>\n                <p>\n                <code>LicenseConfigurationArn</code>\n
</p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits":
{
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
            "ReportGenerators": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorList",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
```

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            }
            },
            "traits": {
                "smithy.api#output": {}
            }
        },
        "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
            "type": "operation",
            "input": {
                "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
            },
            "output": {
                "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
            },
            "errors": [
                {
                    "target": "com.amazonaws.licensemanager#AccessDeniedException"
                },
                {
                    "target": "com.amazonaws.licensemanager#AuthorizationException"
                },
                {
                    "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
                },
                {
                    "target": "com.amazonaws.licensemanager#RateLimitExceededException"
                 },
                {
                    "target": "com.amazonaws.licensemanager#ServerInternalException"
                }
            ],
            "traits": {
                "smithy.api#documentation": "<p>Describes the license configurations for the specified resource.</p>"
            }
        },
        "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
            "type": "structure",
            "members": {
                "ResourceArn": {
                    "target": "com.amazonaws.licensemanager#String",
                    "traits": {
                        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a resource that has an
associated license configuration.</p>",
                        "smithy.api#required": {}
                    }
                },
                "MaxResults": {
                    "target": "com.amazonaws.licensemanager#BoxInteger",
```

"traits": {

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {
"LicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " License configurations associated with a resource. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

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            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
        "type": "structure",
        "members": {
            "Licenses": {
```

```
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
                "smithy.api#documentation": "<p>License details.</p>"
            }
        },

"NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
         },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the licenses for your account.</p>"
    }
```

```
    },
    "com.amazonaws.licensemanager#ListLicensesRequest": {
      "type": "structure",
      "members": {
        "LicenseArns": {
          "target": "com.amazonaws.licensemanager#ArnList",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
          }
        },

     "Filters": {
          "target": "com.amazonaws.licensemanager#FilterList",
          "traits": {
            "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>Beneficiary</code>\n            </p>\n
      </li>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n            </p>\n          </li>\n
   <li>\n            <p>\n              <code>Fingerprint</code>\n            </p>\n          </li>\n          <li>\n
<p>\n              <code>Status</code>\n            </p>\n          </li>\n        </ul>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token
 for the next set of results.</p>"
          }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#MaxSize100",
          "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListLicensesResponse": {
      "type": "structure",
      "members": {
        "Licenses": {
          "target": "com.amazonaws.licensemanager#LicenseList",
          "traits": {
            "smithy.api#documentation": "<p>License details.</p>"
          }
        },
```

"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists grants that are received. Received grants are grants created while specifying the\n recipient as this Amazon Web Services account, your organization, or an organizational unit\n (OU) to which this member account belongs. "
}

```
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target":
"com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants received for all accounts in the organization.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the received license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Filters": {
```

"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n
\n \n \n <code>ParentArn</code>\n \n \n
\n \n <code>GranteePrincipalArn</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Lists the grants the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
"type": "structure",

"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranterAccountId</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Received grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists received licenses. "
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
{
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"

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            },
            "output": {
                "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
            },
            "errors": [
                {
                    "target": "com.amazonaws.licensemanager#AccessDeniedException"
                },
                {
                    "target": "com.amazonaws.licensemanager#AuthorizationException"
                },
                {
                    "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
                },
                {
                    "target": "com.amazonaws.licensemanager#RateLimitExceededException"
                },
                {
                    "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
                },
                {

        "target": "com.amazonaws.licensemanager#ServerInternalException"
                },
                {
                    "target": "com.amazonaws.licensemanager#ValidationException"
                }
            ],
            "traits": {
                "smithy.api#documentation": "<p>Lists the licenses received for all accounts in the organization.</p>"
            }
        },
        "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
            "type": "structure",
            "members": {
                "Filters": {
                    "target": "com.amazonaws.licensemanager#FilterList",
                    "traits": {
                        "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>Beneficiary</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                <code>ProductSKU</code>\n
                </p>\n            </li>\n        </ul>"
                    }
                },
                "NextToken": {
                    "target": "com.amazonaws.licensemanager#String",
                    "traits": {
                        "smithy.api#documentation": "<p>Token for the next set of results.</p>"
```

```
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
        "type": "structure",
        "members": {
            "Licenses": {
                "target": "com.amazonaws.licensemanager#GrantedLicenseList",
                 "traits": {
                    "smithy.api#documentation": "<p>Lists the licenses the organization has received.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
        "type": "structure",
        "members": {
            "LicenseArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
                }
            },

          "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n        <li>\n        <p>\n        <code>ProductSKU</code>\n        </p>\n
```

```
</li>\n <li>\n <p>\n <code>Status</code>\n </p>\n </li>\n
<li>\n <p>\n <code>Fingerprint</code>\n </p>\n </li>\n <li>\n
<p>\n <code>IssuerName</code>\n </p>\n </li>\n <li>\n <p>\n
<code>Beneficiary</code>\n </p>\n </li>\n </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#GrantedLicenseList",
            "traits": {
              "smithy.api#documentation": "<p>Received license details.</p>"
            }
          },

         "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListResourceInventory": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
```

```
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#FailedDependencyException"
        },
        {
            "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
    }
},
"com.amazonaws.licensemanager#ListResourceInventoryRequest": {
    "type": "structure",
    "members": {
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "Filters": {
            "target": "com.amazonaws.licensemanager#InventoryFilterList",
```

"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n
\n \n \n <code>application_name</code> - The name of the application. \n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n
\n \n \n <code>license_included</code> - The type of license included. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n Possible values are <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n
\n <code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n \n \n \n
<code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n
<code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account). \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListResourceInventoryResponse": {
"type": "structure",
"members": {
"ResourceInventoryList": {
"target": "com.amazonaws.licensemanager#ResourceInventoryList",
"traits": {
"smithy.api#documentation": " Information about the resources. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListTagsForResource": {
"type": "operation",

```
        "input": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the tags for the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
```

"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Information about the tags. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListTokens": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListTokensRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListTokensResponse"
},
"errors":
[
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists your tokens. "
}
},
"com.amazonaws.licensemanager#ListTokensRequest": {
"type": "structure",
"members": {
"TokenIds": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " Token IDs. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filter is supported: \n
\n \n \n <code>LicenseArns</code>\n \n \n
"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation":
" Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListTokensResponse": {
"type": "structure",
"members": {
"Tokens": {
"target": "com.amazonaws.licensemanager#TokenList",
"traits": {
"smithy.api#documentation": " Received token details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}

```
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
             {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying
license\n        consumption details by resource at a selected point in time. Use this action to audit the\n        current
license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
```

"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>resourceArn</code> - The ARN of the license configuration resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceAccount</code> - The ID of the account that owns the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
"type": "structure",
"members": {

"LicenseConfigurationUsageList": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}

```
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Location": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#Long": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#ManagedResourceSummary": {
        "type": "structure",
        "members": {
            "ResourceType":
{
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
                }
            },
            "AssociationCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ManagedResourceSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
        }
    },
    "com.amazonaws.licensemanager#MaxSize100": {

    "type": "integer",
        "traits": {
            "smithy.api#range": {
                "min": 1,
                "max": 100
            }
        }
    },
```

"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": " The key name. "
            }
        },

"Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": " The value. "
            }
        }
    },
    "traits": {
        "smithy.api#documentation": " Describes key/value pairs. "
    }
},
"com.amazonaws.licensemanager#MetadataList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Metadata"
    }
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }

```
        },
        "traits": {
            "smithy.api#documentation": "<p>There are no entitlements found for this license, or the entitlement maximum count is reached.</p>",
             "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#Options": {
        "type": "structure",
        "members": {
            "ActivationOverrideBehavior": {
                "target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
                "traits": {
                    "smithy.api#documentation": "<p>An activation option for your grant that determines the behavior of activating a grant.\n        Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter.</p>\n        <ul>\n            <li>\n                <p>As a license administrator, you can optionally specify an\n                <code>ActivationOverrideBehavior</code> when activating a grant.</p>\n  </li>\n            <li>\n                <p>As a grantor, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n                account in your organization.</p>\n            </li>\n            <li>\n                <p>As a grantee, if the grantor creating the distributed grant doesnt specify an\n                <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n                are activating the grant.</p>\n            </li>\n        </ul>\n        <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n            <dd>\n                <p>Use this value to activate a grant without replacing any member accounts\n                active grants for the same product.</p>\n            </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n            <dd>\n                <p>Use this value to activate a grant and disable other active grants in any\n                member accounts
 for the same product. This action will also replace their\n                previously activated grants with this activated grant.</p>\n            </dd>\n        </dl>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The options you can specify when you create a new version of a grant, such as activation\n        override behavior. For more information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#OrganizationConfiguration": {
        "type": "structure",
        "members": {
            "EnableIntegration": {
                "target": "com.amazonaws.licensemanager#Boolean",
                "traits": {
                    "smithy.api#default": false,
                    "smithy.api#documentation":
```

" Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform

Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n
\n \n \n <code>Platform Type</code> - The platform type.\n
Logical operator is <code>EQUALS</code>. \n
\n \n \n <code>Tag:key</code> - The key of a tag attached to an
Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is
<code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the
example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you
are not using values for the key.\n \n \n \n \n
<code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from
automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n
\n \n <code>License Included</code> - The type of license included.\n Logical
operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are:
<code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-
web</code> | \n <code>windows-server-datacenter</code>. \n \n \n
The following filters and logical operators are supported when the resource type\n is
<code>RDS</code>: \n \n \n \n <code>Engine Edition</code> -
The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible
values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-
se2</code>. \n \n \n \n <code>License Pack</code> - The license
pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data
guard</code> | \n <code>diagnostic pack sqlt</code> | \n
<code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n
\n ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information for a license configuration. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
"type": "structure",
"members": {
"ProductInformationFilterName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Filter name. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterValue": {
"target": "com.amazonaws.licensemanager#StringList",

"traits": {
"smithy.api#documentation": " Filter value. "
}
},

```
        "ProductInformationFilterComparator": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Logical operator.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes product information filters.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformationFilter"
    }
},
"com.amazonaws.licensemanager#ProductInformationList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformation"
     }
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
    "type": "structure",
    "members": {
        "MaxTimeToLiveInMinutes": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
    }
},
"com.amazonaws.licensemanager#RateLimitExceededException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
```

"aws.protocols#awsQueryError": {
"code": "RateLimitExceeded",
"httpResponseCode": 429
},
"smithy.api#documentation": " Too many requests have been submitted. Try again after a brief wait. ",
"smithy.api#error": "client",
"smithy.api#httpError": 429
}
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
"type": "structure",
"members": {
"ReceivedStatus": {
"target": "com.amazonaws.licensemanager#ReceivedStatus",
"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Received status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations. "
}
}
},
"traits": {
"smithy.api#documentation": " Metadata associated with received licenses and grants. "
}
},
"com.amazonaws.licensemanager#ReceivedStatus": {
"type": "enum",
"members": {
"PENDING_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_WORKFLOW"
}
},
"PENDING_ACCEPT": {
"target": "smithy.api#Unit",

```
            "traits": {
                "smithy.api#enumValue":
"PENDING_ACCEPT"
            }
        },
        "REJECTED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "REJECTED"
            }
        },
        "ACTIVE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "ACTIVE"
            }
        },
        "FAILED_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        },
        "DISABLED": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "DISABLED"
            }
        },
        "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#RedirectException": {
    "type": "structure",
    "members": {
        "Location": {
            "target": "com.amazonaws.licensemanager#Location",
```

```
                "traits": {
                    "smithy.api#httpHeader": "Location"
                }
            },
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
             "smithy.api#error": "client",
            "smithy.api#httpError": 308
        }
    },
    "com.amazonaws.licensemanager#RejectGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#RejectGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#RejectGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
```

```
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}

  }
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#RenewType":
  {
        "type": "enum",
        "members": {
```

"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"WEEKLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Weekly"
}
},
"MONTHLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Monthly"
}
}
}
},
"com.amazonaws.licensemanager#ReportContext": {
"type": "structure",
"members": {
"licenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details of the license configuration that this generator reports on. "
}
},
"com.amazonaws.licensemanager#ReportFrequency": {
"type": "structure",
"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "
}
},
"period": {

"target": "com.amazonaws.licensemanager#ReportFrequencyType",

"traits": {
"smithy.api#documentation": " Time period between each report. The period can be daily, weekly, or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"com.amazonaws.licensemanager#ReportFrequencyType": {
"type": "enum",
"members": {
"DAY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DAY"
}
},
"WEEK": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "WEEK"
}
},
"MONTH": {
"target": "smithy.api#Unit",
"traits":
{
"smithy.api#enumValue": "MONTH"
}
}
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the report generator. "
}
},
"ReportType": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {

"smithy.api#documentation": " Type of reports that are generated. "
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " License configuration type for this generator. "
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. "
}
},
"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}
},
"LastRunFailureReason": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Failure message for the last report generation attempt. "
}
},
"LastReportGenerationTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the last report was generated at. "
}
},
"ReportCreatorAccount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Web Services account ID used to create the report generator. "
}
},

"Description": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the report was created. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags associated with the report generator. "
}

}
},
"traits": {
"smithy.api#documentation": " Describe the details of a report generator. "
}
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportGenerator"
}
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
}
}
},
"com.amazonaws.licensemanager#ReportType": {

"type": "enum",
"members": {
"LICENSE_CONFIGURATION_SUMMARY_REPORT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "LicenseConfigurationSummaryReport"
}

},
"LICENSE_CONFIGURATION_USAGE_REPORT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "LicenseConfigurationUsageReport"
}
}
}
},
"com.amazonaws.licensemanager#ReportTypeList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportType"
}
},
"com.amazonaws.licensemanager#ResourceInventory": {
"type": "structure",
"members": {
"ResourceId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits":
{
"smithy.api#documentation": " Type of resource. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"Platform": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Platform of the resource. "
}
},
"PlatformVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Platform version of the resource in the inventory. "
}
},
"ResourceOwningAccountId":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a resource. "
}
},
"com.amazonaws.licensemanager#ResourceInventoryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ResourceInventory"
}
},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ResourceLimitExceeded",

"httpResponseCode": 400
},
"smithy.api#documentation": " Your resource limits have been exceeded. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
"type": "structure",
"members": {

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        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "InvalidResource.NotFound",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The resource cannot be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceType": {
    "type": "enum",
    "members": {
        "EC2_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_INSTANCE"
            }
        },
        "EC2_HOST": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_HOST"
            }
        },
        "EC2_AMI": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_AMI"
            }
        },
        "RDS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "RDS"
            }
        },
        "SYSTEMS_MANAGER_MANAGED_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
            }
        }
    }
```

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    },
    "com.amazonaws.licensemanager#S3Location": {
        "type": "structure",
        "members": {
            "bucket": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the S3 bucket reports are published to.</p>"
                }
            },
            "keyPrefix": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Prefix of the S3 bucket reports are published to.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
        }
    },
    "com.amazonaws.licensemanager#ServerInternalException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InternalError",
                "httpResponseCode": 500
            },
            "smithy.api#documentation": "<p>The server experienced an internal error. Try again.</p>",
            "smithy.api#error": "server",
            "smithy.api#httpError": 500
        }
    },
    "com.amazonaws.licensemanager#SignedToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 4096
            }
        }
    },
    "com.amazonaws.licensemanager#StatusReasonMessage": {
```

"type": "string",
"traits":
{
"smithy.api#length": {
"min": 0,
"max": 400
},
"smithy.api#pattern": "^[\\s\\S]+$"
}
},
"com.amazonaws.licensemanager#String": {
"type": "string"
},
"com.amazonaws.licensemanager#StringList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#String"
}
},
"com.amazonaws.licensemanager#Tag": {
"type": "structure",
"members": {
"Key": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Tag key. "
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation":
" Tag value. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a tag for a license configuration. "
}
},
"com.amazonaws.licensemanager#TagKeyList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#String"
}
},
"com.amazonaws.licensemanager#TagList": {
"type": "list",

"member": {
"target": "com.amazonaws.licensemanager#Tag"
}
},
"com.amazonaws.licensemanager#TagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#TagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#TagResourceResponse"
},
"errors": [
{
"target":
"com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Adds the specified tags to the specified license configuration. "
}
},
"com.amazonaws.licensemanager#TagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits":
{
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license
configuration. ",
"smithy.api#required": {}
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",

"traits": {
"smithy.api#documentation": " One or more tags. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#TagResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#TokenData": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. "
}
},
"TokenType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"ExpirationTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Token expiration time, in ISO8601-UTC
format. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",

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                "traits": {
                    "smithy.api#documentation": "<p>Data specified by the caller.</p>"
                }
            },
            "RoleArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the roles included in the
token.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token status. The possible values are
<code>AVAILABLE</code> and <code>DELETED</code>.</p>"
                }
            }
        },
        "traits": {

            "smithy.api#documentation": "<p>Describes a token.</p>"
        }
    },
    "com.amazonaws.licensemanager#TokenList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#TokenData"
        }
    },
    "com.amazonaws.licensemanager#TokenString": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 4096
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
    "com.amazonaws.licensemanager#TokenType": {
        "type": "enum",
        "members": {
            "REFRESH_TOKEN": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "REFRESH_TOKEN"
                }
```

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            }
        }
    },
    "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException":
 {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The digital signature method is unsupported. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#UntagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UntagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UntagResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Removes the specified tags from the specified license
configuration.</p>"
        }
    },
```

"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",
"traits": {
"smithy.api#documentation": " Keys identifying the tags to remove. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseConfigurationStatus": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
                "traits": {
                    "smithy.api#documentation": "<p>New status of the license configuration.</p>"
                }
            },
            "LicenseRules": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {

    "smithy.api#documentation": "<p>New license rule. The only rule that you can add after you create a license\n
    configuration is licenseAffinityToHost.</p>"
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>New number of licenses managed by the license
configuration.</p>"
                }
            },
            "LicenseCountHardLimit": {
```

"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name
of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is
uninstalled. "
}
}
},
"traits":
{
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"

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        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates a report generator.</p>\n        <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to update.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportGeneratorName": {
```

"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation":
" Type of reports to generate. The following report types are supported: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " The report context. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits":
{
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},

{
"target": "com.amazonaws.licensemanager#InvalidResourceStateException"
},
{
"target": "com.amazonaws.licensemanager#LicenseUsageException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Adds or removes the specified license configurations for the specified Amazon Web Services resource. \n You can update the license specifications of AMIs, instances, and hosts.\n You cannot update the license specifications for launch templates and CloudFormation templates, \n as they send license configurations to the operation that creates the resource. "

```
        }
    },

    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "AddLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
                }
            },
            "RemoveLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation":
 "<p>ARNs of the license configurations to remove.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
        },
        "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where the License
 Manager information is stored.</p>"
                }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Enables integration with Organizations for cross-account discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
```

"smithy.api#documentation": " Activates cross-account discovery. "

}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UsageOperation": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
}
}
},
"com.amazonaws.licensemanager#ValidationException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The provided input is not valid. Try your request again. ",

"smithy.api#error": "client",
"smithy.api#httpError": 400
}
}
}
}

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version
 of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus
```

```
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack,
 options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if
 err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
```

1.4324 protobuf 1.5.4

1.4324.1 Available under license :

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1.4325 aws-sdk-go-v2-service-ssooidc 1.21.7

1.4325.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
Enterprise.html)
```

```
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil,
 err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
```

```
if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
 return err
}
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
if err !=
nil {
 return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack);
err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
```

AWS SDK for Go

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name: License Scan

on: [pull_request]

```
jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
     - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
       with:
         python-version: ${{ matrix.python-version }}
     # ScanCode
     - name: Self-configure scancode
       working-directory: ./scancode-toolkit
       run: ./scancode --help
     - name: Run Scan code on target
       run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
     - name: Run Scan code on pr ref
       run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
     # compare
     - name: License test
       run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
```

```
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
```

```
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
```

```
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return
 err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckInLicense",
 }
}
```

```
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
      "type": "integer"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
      "type": "long"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The type of name to filter by.</p>"
          }
        },
        "Values": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
          "traits": {
            "smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
          }
        },
        "Operator": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
          "traits": {
            "smithy.api#documentation": "<p>An operator for filtering results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>A filter object that is used to return more specific results from a describe
operation.\n      Filters can be used to match a set of resources by specific criteria.</p>"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
      },
      "output": {
```

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions service settings. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/GetServiceSettings"
},
"smithy.api#idempotent": {}
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"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest":
{
"type": "structure",
"members": {}
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"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " Lists the settings defined for Linux subscriptions discovery. The
settings include if\n Organizations integration has been enabled, and
which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",

"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays the aggregated data for Linux\n subscriptions. "
}
}
}
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"com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
"type": "structure",
"members": {
"AmiId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The AMI ID used to launch the instance. "
}
},
"InstanceID": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The instance ID of the resource. "
}
},
"InstanceType": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The instance type of the resource. "
}

},
"AccountID": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The account ID which owns the instance. "
}

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            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status of the instance.</p>"
                }
            },
            "Region": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Region the instance is running in.</p>"
                }
            },
            "UsageOperation": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The usage operation of the instance. For more information, see For
 more information, see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-
subscriptions-usage-operation.html\">Usage\n        operation values</a> in the <i>License Manager User
Guide</i>.</p>"
                }
            },
            "ProductCode": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
                "traits": {
                    "smithy.api#documentation": "<p>The product code for the instance. For more information, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-
operation.html\">Usage\n        operation values</a> in the <i>License Manager User Guide</i> .</p>"
                }
            },
            "LastUpdatedTime": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The time in which the last discovery
 updated the instance details.</p>"
                }
            },
            "SubscriptionName": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the subscription being used by the instance.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details discovered information about a running instance using Linux
subscriptions.</p>"
        }
```

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},
"com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
    "type": "structure",
    "members": {
        "message": {
            "target": "smithy.api#String"
         }
    },
    "traits": {
        "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
        "smithy.api#error": "server"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
    "type": "service",
    "version": "2018-05-10",
    "operations": [
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            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
        }
    ],

"traits": {
        "aws.api#service": {
            "sdkId": "License Manager Linux Subscriptions",
            "arnNamespace": "license-manager-linux-subscriptions",
            "cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
        },
        "aws.auth#sigv4": {
            "name": "license-manager-linux-subscriptions"
        },
        "aws.protocols#restJson1": {},
        "smithy.api#cors": {
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"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",

"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"
]
},
"smithy.api#documentation": " With License Manager, you can discover and track your commercial Linux subscriptions on running\n Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager Linux Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
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"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
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"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,

"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

"type": "Boolean"
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"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
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"argv": [
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"ref": "Endpoint"
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"conditions": [
{
"fn": "booleanEquals",
"argv": [
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"type": "error"
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"conditions": [],
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"rules": [
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                      "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                      "type": "error"
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                      "conditions": [],

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                          "ref": "Endpoint"
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                        "headers": {}
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"argv": [
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"assign": "PartitionResult"
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                        "rules": [
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                                        "argv": [
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                                        ]
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},
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]

}
]
},
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"argv": [
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{
"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},

"supportsDualStack"
]
}
]
}
],
"type": "tree",
"rules": [
{
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"rules": [
{

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"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
}
]

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},
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"type": "error"
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"conditions": [
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"argv": [
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"ref": "UseFIPS"
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"argv": [
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"fn": "getAttr",
"argv": [
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"supportsFIPS"
]
}
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"rules": [
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"conditions": [],
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fips.{Region}.{PartitionResult#dnsSuffix}",
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                            "type": "endpoint"
                        }
                    ]
                }
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        },
        {
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            "error": "FIPS is enabled but this partition does not support FIPS",
            "type": "error"
        }
    ]

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                },
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},
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"type": "endpoint"
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"type": "error"
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"properties": {},
"headers": {}
},
"type": "endpoint"
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}
]
}
]
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"error": "Invalid Configuration: Missing Region",
"type": "error"
}
]
}
]
},
"smithy.rules#endpointTests": {
"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {

"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false

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    }
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  {
    "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
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        "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
      }
    },
    "params": {
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      "UseFIPS": false,
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    }
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    "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
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        "url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
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      "Region": "us-east-1",
      "UseFIPS": false,
      "UseDualStack": false
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    "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "endpoint": {

    "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
      }
    },
    "params": {
      "Region": "cn-north-1",
      "UseFIPS": true,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
      }
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```
        },
        "params": {
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          "UseFIPS": true,
           "UseDualStack": false
        }
      },
      {
        "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
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            "url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
          }
        },
        "params": {
          "Region": "cn-north-1",
          "UseFIPS": false,
          "UseDualStack": true
        }
      },
      {
        "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
        "expect": {
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            "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
          }
        },
        "params": {
          "Region": "cn-north-1",
          "UseFIPS": false,
          "UseDualStack": false
        }
      },
      {
        "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
          }
        },
        "params": {
          "Region": "us-gov-east-1",
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"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
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"params": {
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"UseDualStack": false
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},
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"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
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"url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
}
},
"params": {
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"UseFIPS": false,
"UseDualStack": true
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},
{
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"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
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"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true

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            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
                "endpoint": {
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                }
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": true,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
                "error": "DualStack is enabled but this partition does not support DualStack"
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
        {
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
                }
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
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            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
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            },
            "params": {
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"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
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"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}
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{
"documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
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"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",

"UseFIPS": false,
"UseDualStack": false
}
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{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {

"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",

"expect": {
"endpoint": {
"url": "https://example.com"
}
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"params": {
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
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"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
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"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,

"Endpoint": "https://example.com"
}
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"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true,
"Endpoint": "https://example.com"

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                }
            },
            {
                "documentation": "Missing region",
                "expect": {
                    "error": "Invalid Configuration: Missing Region"
                }

        }
            ],
            "version": "1.0"
        }
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "name": "Enabled",
                "value": "Enabled",
                "documentation": "Enabled LinuxSubscriptionsDiscovery"
            },
            {
                "name": "Disabled",
                "value": "Disabled",
                "documentation": "Disabled LinuxSubscriptionsDiscovery"
            }
        ]
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
    "type": "structure",
    "members": {
        "SourceRegions": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
            "traits": {
                "smithy.api#documentation": "<p>The Regions in which to discover data for Linux
subscriptions.</p>",
                "smithy.api#required": {}
            }
        },
        "OrganizationIntegration": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
            "traits": {
                "smithy.api#documentation": "<p>Details if you have enabled resource discovery across your
accounts in Organizations.</p>",
                "smithy.api#required": {}
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```
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Lists the settings defined for discovering Linux subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
        "type":
 "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
        },
        "errors": [
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                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the running Amazon EC2 instances that were discovered with
commercial Linux\n      subscriptions.</p>",
            "smithy.api#http": {

      "code": 200,
                "method": "POST",
                "uri": "/subscription/ListLinuxSubscriptionInstances"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "Instances"
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
        "type": "structure",
        "members": {
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"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n match, or don't match a certain Amazon Machine Image (AMI) ID. \n The valid names for this filter are: \n \n \n \n <code>AmiID</code>\n \n \n \n \n <code>InstanceID</code>\n \n \n \n \n <code>AccountID</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Region</code>\n \n \n \n \n <code>UsageOperation</code>\n \n \n \n \n <code>ProductCode</code>\n \n \n \n \n <code>InstanceType</code>\n \n \n \n The valid Operators for this filter are: \n \n \n \n <code>contains</code>\n \n \n \n \n <code>equals</code>\n \n \n \n \n <code>Notequal</code>\n \n \n "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "

}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. ",
"smithy.api#length": {
"min": 1,
"max": 16384
}
}
}
},
"traits": {
"smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
"type": "structure",
"members": {
"Instances": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",

"traits": {
"smithy.api#documentation":
" An array that contains instance objects. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions that have been discovered. If you have linked your\n organization, the returned results will include data aggregated across your accounts in\n Organizations. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptions"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Subscriptions"
}

```
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by the name of\n
 <code>Subscription</code> with an optional operator to see subscriptions that match,\n      partially match, or don't
match a certain subscription's name.</p>\n         <p>The valid names for this filter are:</p>\n         <ul>\n
<li>\n              <p>\n                  <code>Subscription</code>\n              </p>\n           </li>\n         </ul>\n
<p>The valid Operators for this filter are:</p>\n
         <ul>\n           <li>\n              <p>\n                  <code>contains</code>\n              </p>\n           </li>\n
<li>\n              <p>\n                  <code>equals</code>\n              </p>\n           </li>\n           <li>\n              <p>\n
              <code>Notequal</code>\n              </p>\n           </li>\n         </ul>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>",
                    "smithy.api#length": {

                        "min": 1,
                        "max": 16384
                    }
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
        "type": "structure",
        "members": {
            "Subscriptions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
```

```
                "traits": {
                    "smithy.api#documentation": "<p>An array that contains subscription objects.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for
the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "name": "EQUAL",
                    "value": "Equal",
                    "documentation": "Equal operator"
                },
                {
                    "name": "NOT_EQUAL",
                    "value": "NotEqual",
                    "documentation": "Not equal operator"
                },
                {
                    "name": "CONTAINS",
                    "value": "Contains",
                    "documentation": "Contains operator"
                }
            ],
            "smithy.api#length": {
                "min": 1,
                "max": 20
            }
        }
    },

  "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "name": "Enabled",
                    "value": "Enabled",
                    "documentation": "Enabled OrganizationIntegration"
```

```
            },
            {
                "name": "Disabled",
                "value": "Disabled",
                "documentation": "Disabled OrganizationIntegration"
            }
        ]
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
    "type": "list",
    "member": {
        "target": "smithy.api#String"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [

{
                "name": "InProgress",
                "value": "InProgress",
                "documentation": "InProgress status"
            },
            {
                "name": "Completed",
                "value": "Completed",
                "documentation": "Completed status"
            },
            {
                "name": "Successful",
                "value": "Successful",
                "documentation": "Successful status"
            },
            {
                "name": "Failed",
                "value": "Failed",
                "documentation": "Failed status"
            }
        ]
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
    "type": "list",
    "member": {
        "target": "smithy.api#String",
        "traits":
```

{
"smithy.api#length": {
"min": 1,
"max": 100
}
}
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
},
"smithy.api#uniqueItems": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
"type": "map",
"key": {
"target": "smithy.api#String"
},
"value": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
"type": "structure",
"members": {
"Name": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription. "

}
},
"Type": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own\n Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the\n Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS. "
}
},
"InstanceCount": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
"traits": {
"smithy.api#documentation": " The total amount of running instances using this subscription. "
}

```
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>An object which details a discovered Linux
subscription.</p>"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request was denied due to request throttling.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
        },

    "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates the service settings for Linux subscriptions.</p>",
            "smithy.api#http": {
```

"code": 200,
"method": "POST",
"uri": "/subscription/UpdateServiceSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest":
{
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Describes if the discovery of Linux subscriptions is enabled. ",
"smithy.api#required": {}
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The
settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated
from. ",

"smithy.api#required": {}
}
},
"AllowUpdate": {
"target": "smithy.api#Boolean",
"traits": {
"smithy.api#documentation": " Describes if updates are allowed to the service settings for Linux
subscriptions. If you\n allow updates, you can aggregate Linux subscription data in more than one home
Region. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},

"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The provided input is not valid. Try your request again. ",
"smithy.api#error": "client"
}
}
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

```
import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - Beneficiary
 //   - ProductSKU
 //   - Fingerprint
 //
   - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string
```

```
 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if
 err := addProtocolFinalizerMiddlewares(stack, options, "ListLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}
```

```
func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
     ServiceID,
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 //
 This member is required.
 LicenseType types.LicenseType
```

```
 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack,
 options, "DisassociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
```

```
 return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
```

```
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData
```

```
// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource
Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil
 {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
```

```
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier
 that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
```

```
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
```

```
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return
err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide
 to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
```

```
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity
 *types.DatetimeRange

 // Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
```

```
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
 return fmt.Errorf("add
protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName:
 "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
```

```
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
```

```
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return
err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
```

```
 if err = addOpGetLicenseValidationMiddleware(stack);
 err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "GetLicense",
 }
}
```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
```

```
//
  - ProductSKU
//   - Status
//   - Fingerprint
//   - IssuerName
//   - Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
 return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
middleware.After)
if err != nil {
 return err
}
```

```
if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack);
err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
```

```
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
 }
}
```

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{
"smithy": "2.0",
"shapes": {

"com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " You don't have sufficient access to perform this action. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
"type": "structure",
"members": {
"DirectoryId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The directory ID for an Active Directory identity provider. "
}
}
},
"traits": {
"smithy.api#documentation":
" Details about an Active Directory identity provider. "
}
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"com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"

```
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Associates the user to an EC2 instance to utilize user-based
subscriptions.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related
costs will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing
status) in Amazon Web Services Billing. For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n
        monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/AssociateUser"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the
 EC2 instance, which provides user-based subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>The identity provider of the user.</p>",
```

"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
"type": "integer"
},
"com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request couldn't be completed because it conflicted with the current state of the\n resource. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deregisters the identity provider from providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/DeregisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",

```
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
    "type": "structure",
    "members": {
        "IdentityProviderSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
            "traits": {
                "smithy.api#documentation":
"<p>Metadata that describes the results of an identity provider operation.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
    },
    "errors": [
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            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
         },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
```

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Disassociates the user from an EC2 instance providing user-based
subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/DisassociateUser"
            },
            "smithy.api#idempotent": {}
        }

    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation":
 "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
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"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
}
},

"com.amazonaws.licensemanagerusersubscriptions#Filter": {
"type": "structure",
"members": {
"Attribute": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of an attribute to use as a filter. "
}
},
"Operation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of search (For example, eq, geq, leq) "
}
},
"Value": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Value of the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter name and value pair that is used
to return more specific results from a describe\n operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n attributes, or IDs. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
"type": "union",

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        "members": {
          "ActiveDirectoryIdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
            "traits": {
              "smithy.api#documentation": "<p>An object that details an Active Directory identity provider.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation":
 "<p>Details about an identity provider.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
        "type": "structure",
        "members": {
          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
              "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "Settings": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
            "traits": {
              "smithy.api#documentation": "<p>An object that details the registered identity providers product
related configuration\n      settings such as the subnets to provision VPC endpoints.</p>",
              "smithy.api#required":
 {}
            }
          },
          "Product": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
              "smithy.api#required": {}
            }
          },
          "Status": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The status of an identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "FailureMessage": {
            "target": "smithy.api#String",
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"traits": {
"smithy.api#documentation": " The failure message associated with an identity provider. "
}
}
},
"traits": {
"smithy.api#documentation":
" Describes an identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
"type": "structure",
"members": {
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based
subscriptions. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status
of an EC2 instance resource. ",
"smithy.api#required": {}
}
},
"Products": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
"traits": {
"smithy.api#documentation": " A list of provided user-based subscription products. ",
"smithy.api#required": {}
}
},
"LastStatusCheckDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date of the last status check. "
}
},

"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for an EC2 instance. "
}

}
},
"traits": {
"smithy.api#documentation": " Describes an EC2 instance providing user-based subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits":
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"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a user associated with an EC2 instance. ",

"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for users of an EC2 instance. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"AssociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was associated with an EC2 instance. "
}
},
"DisassociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was disassociated from an EC2 instance. "
}
}

},
"traits": {
"smithy.api#documentation": " Describes users of an EC2 instance providing user-based subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {

"smithy.api#documentation": " An exception occurred with the service. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
"type": "service",

"version": "2018-05-10",
"operations": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
}
],
"traits": {
"aws.api#service": {
"sdkId": "License Manager User Subscriptions",
"arnNamespace": "license-manager-user-subscriptions",

"cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
},
"aws.auth#sigv4": {
"name": "license-manager-user-subscriptions"
},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",
"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"

]
},
"smithy.api#documentation": " With License Manager, you can create user-based subscriptions to utilize licensed software with\n a per user subscription fee on Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager User Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack

endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}

},
"rules": [
{
"conditions": [
{
"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
]
}
],
"type": "tree",
"rules": [
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
},

true
]
}
],
"error": "Invalid Configuration: FIPS and custom endpoint are not supported",
"type": "error"

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            },
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                        "fn": "booleanEquals",
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                                "ref": "UseDualStack"
                            },
                            true
                        ]
                    }
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"error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                "type": "error"
            },
            {
                "conditions": [],
                "endpoint": {
                    "url": {
                        "ref": "Endpoint"
                    },
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ]
    },
    {
        "conditions": [
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{
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                ]
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        ],
        "type": "tree",
        "rules": [
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                "conditions": [
                    {
                        "fn": "aws.partition",
```

```
                "argv": [
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                    "ref": "Region"
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                "assign": "PartitionResult"
              }
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                "conditions": [
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                        "ref": "UseFIPS"
                      },
                      true
                    ]
                  },
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseDualStack"

                      },
                      true
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                ],
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                "rules": [
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                    "conditions": [
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                        "argv": [
                          true,
                          {
                            "fn": "getAttr",

    "argv": [
                                  {
                                    "ref": "PartitionResult"
                                  },
```

"supportsFIPS"
]
}
]
},
{
"fn": "booleanEquals",
"argv": [
true,
{

"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsDualStack"
]
}
]
}
],
"type": "tree",
"rules": [
{

"conditions": [],
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
},
{
"conditions": [],
"error": "FIPS and DualStack are enabled, but this partition does not support one or both",
"type": "error"
}
]
},
{
"conditions": [
{

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                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseFIPS"
                  },
                  true
                ]
              }
            ],
            "type": "tree",

        "rules": [
              {
                "conditions": [
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      true,
                      {
                        "fn": "getAttr",
                        "argv": [
                          {
                            "ref": "PartitionResult"
                          },
                          "supportsFIPS"

                 ]
                      }
                    ]
                  }
                ],
                "type": "tree",
                "rules": [
                  {
                    "conditions": [],
                    "endpoint": {
                      "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                      "properties": {},
                      "headers": {}

            },
                    "type": "endpoint"
                  }
                ]
              },
              {
                "conditions": [],
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                "error": "FIPS is enabled but this partition does not support FIPS",
                "type": "error"
            }
        ]
    },
    {
        "conditions": [
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                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseDualStack"
                    },
                    true
                ]
            }
        ],
        "type": "tree",
        "rules": [
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                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
                            {

                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsDualStack"
                                ]
                            }
                        ]
                    }
                ],
                "type": "tree",
                "rules": [
                    {

                        "conditions": [],
                        "endpoint": {
                            "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                            "properties": {},
                            "headers": {}
```

```
                    },
                    "type": "endpoint"
                }
            ]
        },
        {
            "conditions": [],
            "error": "DualStack is enabled but this partition does
not support DualStack",
            "type": "error"
        }
    ]
},
{
    "conditions": [],
    "endpoint": {
        "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
        "properties": {},
        "headers": {}
    },
    "type": "endpoint"
}
]
}
]
},
{
    "conditions":
[],
    "error": "Invalid Configuration: Missing Region",
    "type": "error"
}
]
},
"smithy.rules#endpointTests": {
    "testCases": [
        {
            "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": true
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            }
        },
        {
            "documentation":
"For region us-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
                "endpoint": {
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                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
                }
            },

        "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
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            "documentation": "For region cn-north-1 with
FIPS enabled and DualStack enabled",
            "expect": {
                "endpoint": {
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"url": "https://license-manager-user-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},

"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,

"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"
}
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"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1
with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {

"url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect":
{
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack":
true
}
},
{

"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but
this partition does not support one or both"
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"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
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},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}

},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}

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        },
        {
          "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
            }
          },
           "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
          "expect": {
            "endpoint": {
              "url": "https://example.com"
            }
          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": false,
            "Endpoint": "https://example.com"
          }
        },
        {

"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
          "expect": {
            "endpoint": {
              "url": "https://example.com"
            }
          },
          "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Endpoint": "https://example.com"
          }
        },
        {
          "documentation": "For custom endpoint with fips enabled and dualstack disabled",
          "expect": {
            "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
          },
          "params": {
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                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips disabled and dualstack enabled",
            "expect": {
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "Missing region",
            "expect": {
                "error": "Invalid Configuration: Missing Region"
            }
        }
    ],
    "version": "1.0"
  }
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
    },
    {
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"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the identity providers for user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/ListIdentityProviders"
},
"smithy.api#paginated":
{
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "IdentityProviderSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
{
"type": "structure",

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    "members": {
      "IdentityProviderSummaries": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
        "traits": {
          "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
          "smithy.api#required": {}
        }
      },
      "NextToken": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      }
    }
  },
  "com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
      }
    ],
    "traits": {
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"smithy.api#documentation": " Lists the EC2 instances providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/instance/ListInstances"
},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "InstanceSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
"type": "structure",
"members": {
"InstanceSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list instances operation. "
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the user-based subscription products available from an identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/ListProductSubscriptions"
},
"smithy.api#paginated": {

"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "ProductUserSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
"type": "structure",
"members": {
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name
of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {

"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match
one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {

"type": "structure",
"members": {
"ProductUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list product subscriptions operation. "
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists user associations for an identity provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListUserAssociations"
            },
            "smithy.api#paginated":
 {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity
 provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify.</p>"
```

```
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for
the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
    "type": "structure",
    "members": {
        "InstanceUserSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Metadata that describes the list user association operation.</p>"
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
    "type": "structure",
    "members": {

    "Username": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                "smithy.api#required": {}
            }
        },
        "Product": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                "smithy.api#required": {}
            }
        },
        "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
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"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}

},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a product for a user. ",
"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for a product for a user. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"SubscriptionStartDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The
start date of a subscription. "
}
},
"SubscriptionEndDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The end date of a subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " The summary of the user-based subscription products for a user. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
}

```
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Registers an identity provider for user-based subscriptions.</p>",
        "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/identity-provider/RegisterIdentityProvider"
        },
        "smithy.api#idempotent": {}
    }
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
    "type": "structure",
    "members": {
        "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
```

"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings such as the\n subnets to provision VPC endpoints. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The resource couldn't be found. ",
"smithy.api#error": "client",
"smithy.api#httpError": 404
}
},

"com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
"type": "string",

"traits": {
"smithy.api#length": {
"min": 5,
"max": 200
},
"smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request failed because a service quota is exceeded. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Settings": {
"type": "structure",
"members": {
"Subnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation":
" The subnets defined for the registered identity provider. ",
"smithy.api#length": {
"min": 1
},
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID that allows inbound TCP port 1688
communication between resources in\n your VPC and the VPC endpoint for activation servers. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings

such as the\n subnets to provision VPC endpoints, and the security group ID that
is associated with the VPC\n endpoints. The security group should permit inbound TCP port 1688
communication from resources\n in the VPC. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Starts a product subscription for a user with the specified identity
provider. \n <note>\n Your estimated bill for charges on the number of users and related costs
will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing status)
in Amazon Web Services Billing.
For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n monthly
charges in the Amazon Web Services Billing User Guide. \n </note>",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/StartProductSubscription"

```
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                 "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
        "type": "structure",
         "members": {
            "ProductUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the start product subscription
operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
```

"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Stops a product subscription for a user with the specified identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/StopProductSubscription"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required":
{}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
"type": "structure",
"members": {
"ProductUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
"traits": {
"smithy.api#documentation":
" Metadata that describes the start product subscription operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StringList": {
"type": "list",
"member": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Subnet": {
"type": "string",

"traits": {
"smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Subnets": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
"type": "structure",
"members": {
"message": {

"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request was denied because of request throttling. Retry the request. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates additional product configuration settings for the registered

identity\n provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/UpdateIdentityProviderSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"UpdateSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings. You can\n update any combination of settings in a single operation such as the: \n \n \n Subnets which you want to add to provision VPC endpoints. \n \n \n Subnets which you want to remove the VPC endpoints from. \n \n \n Security group ID which permits traffic to the VPC endpoints. \n \n ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#required": {}
}
}
}

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
        "type": "structure",
        "members": {
            "AddSubnets": {

             "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of one or more subnets in which License Manager will
create a VPC endpoint for products that\n      require connectivity to activation servers.</p>",
                    "smithy.api#required": {}
                }
            },
            "RemoveSubnets": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of one or more subnets to remove.</p>",
                    "smithy.api#required": {}
                }
            },
            "SecurityGroupId": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
                "traits": {
                    "smithy.api#documentation": "<p>A security group ID
 that allows inbound TCP port 1688 communication between resources in\n      your VPC and the VPC endpoints for
activation servers.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Updates the registered identity providers product related configuration
settings such as\n      the subnets to provision VPC endpoints.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A parameter is not valid.</p>",
            "smithy.api#error": "client"
        }
    }
  }
}
```

```
{
  "smithy": "2.0",
  "metadata": {
    "suppressions": [
      {
        "id": "HttpMethodSemantics",
        "namespace": "*"
      },
      {
        "id": "HttpResponseCodeSemantics",
        "namespace": "*"
      },
      {
        "id": "PaginatedTrait",
        "namespace": "*"
      },
      {
        "id": "HttpHeaderTrait",
        "namespace": "*"
      },
      {
        "id": "HttpUriConflict",
        "namespace": "*"
      },
      {
        "id": "Service",
        "namespace": "*"
      }
    ]
  },
  "shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
      "type": "service",
      "version": "2018-08-01",
      "operations": [
        {
          "target": "com.amazonaws.licensemanager#AcceptGrant"
        },

 {
          "target": "com.amazonaws.licensemanager#CheckInLicense"
        },
        {
          "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
        },
        {
          "target": "com.amazonaws.licensemanager#CheckoutLicense"
        },
```

```
    {
      "target": "com.amazonaws.licensemanager#CreateGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateGrantVersion"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseVersion"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateToken"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteToken"
    },
    {
      "target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

  },
    {
      "target": "com.amazonaws.licensemanager#GetAccessToken"
    },
    {
      "target": "com.amazonaws.licensemanager#GetGrant"
```

},
{
"target": "com.amazonaws.licensemanager#GetLicense"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseUsage"
},
{
"target": "com.amazonaws.licensemanager#GetServiceSettings"
},
{
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#ListDistributedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
"target": "com.amazonaws.licensemanager#ListLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

"target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{

"target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization"
},
{
"target": "com.amazonaws.licensemanager#ListResourceInventory"
},
{
"target": "com.amazonaws.licensemanager#ListTagsForResource"
},
{
"target": "com.amazonaws.licensemanager#ListTokens"
},
{
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#RejectGrant"
},
{
"target": "com.amazonaws.licensemanager#TagResource"
},
{
"target": "com.amazonaws.licensemanager#UntagResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateServiceSettings"
}
],
"traits": {
"aws.api#service": {

"sdkId": "License Manager",
"arnNamespace": "license-manager",
"cloudFormationName": "LicenseManager",
"cloudTrailEventSource": "licensemanager.amazonaws.com",
"endpointPrefix": "license-manager"
},
"aws.auth#sigv4": {
"name": "license-manager"
},
"aws.protocols#awsJson1_1": {},
"smithy.api#documentation": " License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers. ",
"smithy.api#title": "AWS License Manager",
"smithy.api#xmlNamespace": {
"uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
},
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}

```
    },
    "rules": [
      {
        "conditions": [
          {
            "fn": "isSet",
            "argv": [
              {
                "ref": "Endpoint"
              }
            ]

        }
        ],
        "type": "tree",
        "rules": [
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseFIPS"
                  },
                  true
                ]
              }
            ],
            "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
            "type": "error"
          },
          {

"conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseDualStack"
                  },
                  true
                ]
              }
            ],
            "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
            "type": "error"
          },
          {
```

```
                "conditions": [],
                "endpoint": {
                  "url": {
                    "ref": "Endpoint"
                  },
                  "properties": {},
                  "headers": {}
                },
                "type": "endpoint"
              }
            ]
          },
          {
            "conditions": [
              {
                "fn": "isSet",
                "argv": [
                  {
                    "ref": "Region"
                  }
                ]
              }
            ],
            "type": "tree",
            "rules": [
              {
                "conditions": [
                  {
                    "fn": "aws.partition",
                    "argv": [
                      {
                        "ref": "Region"
                      }
                    ],
                    "assign": "PartitionResult"
                  }
                ],
                "type": "tree",
                "rules": [
                  {
                    "conditions": [
                      {
                        "fn": "booleanEquals",
                        "argv": [
                          {
                            "ref":
"UseFIPS"
                          },
```

```
                    true
                ]
            },
            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseDualStack"
                    },
                    true
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
                            {
                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsFIPS"
                                ]

                }
                        ]
                    },
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
                            {
                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },

"supportsDualStack"
                                ]
                            }
                        ]
```

```
                    }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [],
                        "endpoint": {
                            "url": "https://license-manager-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                            "properties": {},
                            "headers": {}

            },
                        "type": "endpoint"
                    }
                ]
            },
            {
                "conditions": [],
                "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
                "type": "error"
            }
        ]
    },
    {
        "conditions": [
            {
                "fn": "booleanEquals",

      "argv": [
                    {
                        "ref": "UseFIPS"
                    },
                    true
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
```

```
{
                "fn": "getAttr",
                "argv": [
                  {
                    "ref": "PartitionResult"
                  },
                  "supportsFIPS"
                ]
              }
            ]
          }
        ],
        "type": "tree",
        "rules": [

{
            "conditions": [],
            "endpoint": {
              "url": "https://license-manager-fips.{Region}.{PartitionResult#dnsSuffix}",
              "properties": {},
              "headers": {}
            },
            "type": "endpoint"
          }
        ]
      },
      {
        "conditions": [],
        "error": "FIPS is enabled but this
partition does not support FIPS",
        "type": "error"
      }
    ]
  },
  {
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          {
            "ref": "UseDualStack"
          },
          true
        ]
      }
    ],
    "type": "tree",
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                "rules": [
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                    "conditions": [
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                        "fn": "booleanEquals",
                        "argv": [
                          true,
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                            "fn": "getAttr",
                            "argv": [
                              {
                                "ref": "PartitionResult"
                              },

"supportsDualStack"
                            ]
                          }
                        ]
                      }
                    ],
                    "type": "tree",
                    "rules": [
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                        "conditions": [],
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                          "url": "https://license-
manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
                          "properties": {},
                          "headers": {}

                },
                        "type": "endpoint"
                      }
                    ]
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                  {
                    "conditions": [],
                    "error": "DualStack is enabled but this partition does not support DualStack",
                    "type": "error"
                  }
                ]
              },
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                "conditions": [],
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                   "properties": {},
                  "headers": {}
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                    },
                    "type": "endpoint"
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    "error": "Invalid Configuration: Missing Region",
    "type": "error"
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"smithy.rules#endpointTests": {
    "testCases": [
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            "expect": {
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                    "url": "https://license-manager.af-south-1.amazonaws.com"
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            "params": {
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                "UseFIPS": false,
                "UseDualStack": false
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            "documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
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                    "url": "https://license-manager.ap-east-1.amazonaws.com"
                }
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            "params": {
                "Region": "ap-east-1",
                "UseFIPS": false,
                "UseDualStack": false
             }
        },
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            "documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.ap-northeast-1.amazonaws.com"
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            }
        },
        "params": {
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            "UseFIPS": false,
            "UseDualStack": false
        }
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        "documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.ap-northeast-2.amazonaws.com"
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        "params": {
            "Region": "ap-northeast-2",
            "UseFIPS": false,
            "UseDualStack": false
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        "documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.ap-northeast-3.amazonaws.com"
            }
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        "params": {
            "Region": "ap-northeast-3",
            "UseFIPS": false,
            "UseDualStack": false
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    {
        "documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.ap-south-1.amazonaws.com"
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        },
        "params": {
            "Region": "ap-south-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
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          "documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
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}
          },
          "params": {
            "Region": "ap-southeast-1",
            "UseFIPS": false,
            "UseDualStack": false
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          "documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ap-southeast-2.amazonaws.com"
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          "params": {
            "Region": "ap-southeast-2",
            "UseFIPS": false,
            "UseDualStack": false
          }
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"documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ap-southeast-3.amazonaws.com"
            }
          },
          "params": {
            "Region": "ap-southeast-3",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region ca-central-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ca-central-1.amazonaws.com"
            }
          },
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"params": {
"Region": "ca-central-1",
"UseFIPS": false,
"UseDualStack": false
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{
"documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-central-1.amazonaws.com"
}
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"params": {
"Region": "eu-central-1",
"UseFIPS": false,
"UseDualStack": false
}
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"documentation": "For region eu-north-1 with FIPS
disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-north-1.amazonaws.com"
}
},
"params": {
"Region": "eu-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-south-1.amazonaws.com"
}
},
"params": {
"Region":
"eu-south-1",
"UseFIPS": false,
"UseDualStack": false
}
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          "expect": {
            "endpoint": {
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            }
          },
          "params": {
            "Region": "eu-west-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
          "expect": {

          "endpoint": {
              "url": "https://license-manager.eu-west-2.amazonaws.com"
            }
          },
          "params": {
            "Region": "eu-west-2",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region eu-west-3 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.eu-west-3.amazonaws.com"
            }
          },
          "params": {
            "Region": "eu-west-3",
            "UseFIPS": false,

"UseDualStack": false
          }
        },
        {
          "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.me-south-1.amazonaws.com"
            }
          },
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"params": {
"Region": "me-south-1",
"UseFIPS": false,
"UseDualStack": false
}
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"documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.sa-east-1.amazonaws.com"
}
},
"params": {
"Region": "sa-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
}

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{
"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",

"expect": {
"endpoint": {
"url": "https://license-manager.us-east-2.amazonaws.com"
}

},
"params": {
"Region": "us-east-2",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-east-2.amazonaws.com"
}
},
"params": {
"Region": "us-east-2",
"UseFIPS": true,
"UseDualStack": false
}
},
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"documentation": "For region
us-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-west-1.amazonaws.com"
}
},
"params": {
"Region": "us-west-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
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"url": "https://license-manager-fips.us-west-1.amazonaws.com"
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"params": {

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"UseFIPS": true,
"UseDualStack": false
}
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{
"documentation": "For region us-west-2 with FIPS disabled and DualStack disabled",
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"url": "https://license-manager.us-west-2.amazonaws.com"
}
},
"params": {
"Region": "us-west-2",
"UseFIPS": false,
"UseDualStack": false
}
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{
"documentation": "For region us-west-2 with FIPS enabled and DualStack disabled",

"expect": {
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"params": {
"Region": "us-west-2",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,

"UseDualStack": true
}
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{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",

"expect": {
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"url": "https://license-manager.us-east-1.api.aws"
}
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"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url":
"https://license-manager.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-northwest-1",
"UseFIPS": false,
"UseDualStack": false

}
},
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"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",

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            "UseFIPS": true,
            "UseDualStack": true
        }
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        "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
             }
        },
        "params": {
            "Region": "cn-north-1",
            "UseFIPS": true,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
            }
        },
        "params": {
            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": true
        }
    },

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        "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.us-gov-east-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
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"url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
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},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-gov-west-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-west-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation":
"For region us-gov-west-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
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"params": {
"Region": "us-gov-west-1",
"UseFIPS": true,
"UseDualStack": false
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"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
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}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true

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            }
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            "expect": {
                "endpoint": {
                    "url": "https://license-manager.us-gov-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack
disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
                }
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": true,
                 "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
                }
            },
            "params": {
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"Region": "us-iso-east-1",
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"UseDualStack": false
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"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled
but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": true
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"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
}
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
}

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        "params": {
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                    "UseFIPS": true,
                    "UseDualStack": false
                }
            },
            {
                "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
                "expect": {
                    "error": "DualStack is enabled but this partition does not support DualStack"
                },
                "params": {
                    "Region": "us-isob-east-1",
                    "UseFIPS": false,
                    "UseDualStack": true
                }
            },
            {
                "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

    "expect": {
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                    }
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                "params": {
                    "Region": "us-east-1",
                    "UseFIPS": false,
                    "UseDualStack": false,
                    "Endpoint": "https://example.com"
                }
            },
            {
                "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",
                "expect": {
                    "endpoint": {
                        "url": "https://example.com"
                    }
                },
                "params": {
                    "UseFIPS": false,

        "UseDualStack": false,
                    "Endpoint": "https://example.com"
                }
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                },
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                    "documentation": "For custom endpoint with fips enabled and dualstack disabled",
                    "expect": {
                        "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
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                    "params": {
                        "Region": "us-east-1",
                        "UseFIPS": true,
                        "UseDualStack": false,
                        "Endpoint": "https://example.com"
                    }
                },
                {
                    "documentation": "For custom endpoint with fips disabled and dualstack enabled",
                    "expect": {
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"Invalid Configuration: Dualstack and custom endpoint are not supported"
                    },
                    "params": {
                        "Region": "us-east-1",
                        "UseFIPS": false,
                        "UseDualStack": true,
                        "Endpoint": "https://example.com"
                    }
                },
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                    "documentation": "Missing region",
                    "expect": {
                        "error": "Invalid Configuration: Missing Region"
                    }
                }
            ],
            "version": "1.0"
        }
    }
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"com.amazonaws.licensemanager#AcceptGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#AcceptGrantRequest"

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    "output": {
        "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
    },
    "errors": [
        {
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"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
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"target": "com.amazonaws.licensemanager#AuthorizationException"
},
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"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
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"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"

}
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"traits": {
"smithy.api#documentation": " Accepts the specified grant. "
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"com.amazonaws.licensemanager#AcceptGrantRequest": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
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"com.amazonaws.licensemanager#AcceptGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant

ARN. "
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": " Grant status. "
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": " Grant version. "
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
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      "com.amazonaws.licensemanager#AccessDeniedException": {
        "type": "structure",
        "members": {
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "aws.protocols#awsQueryError": {

"code": "ServiceAccessDenied",
            "httpResponseCode": 401
          },
          "smithy.api#documentation": " Access to resource denied. ",
          "smithy.api#error": "client",
          "smithy.api#httpError": 401
        }
      },
      "com.amazonaws.licensemanager#ActivationOverrideBehavior": {
        "type": "enum",
        "members": {
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            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
            }
          },
          "ALL_GRANTS_PERMITTED_BY_ISSUER": {

"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
}
}
}
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"com.amazonaws.licensemanager#AllowedOperation": {

"type": "enum",
"members": {
"CREATE_GRANT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CreateGrant"
}
},
"CHECKOUT_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckoutLicense"
}
},
"CHECKOUT_BORROW_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckoutBorrowLicense"
}
},
"CHECK_IN_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckInLicense"
}
},
"EXTEND_CONSUMPTION_LICENSE":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ExtendConsumptionLicense"
}
},
"LIST_PURCHASED_LICENSES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ListPurchasedLicenses"
}
},

"CREATE_TOKEN": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CreateToken"
}
}
}
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"com.amazonaws.licensemanager#AllowedOperationList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#AllowedOperation"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max":
7
}
}
},
"com.amazonaws.licensemanager#Arn": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
}
},
"com.amazonaws.licensemanager#ArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
}
},
"com.amazonaws.licensemanager#AuthorizationException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError":

{
"code": "AuthorizationFailure",
"httpResponseCode": 403
},
"smithy.api#documentation": " The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n policy associated with this account. ",
"smithy.api#error": "client",
"smithy.api#httpError": 403
}
},
"com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
"type": "structure",
"members": {
"LastRunTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time that automated discovery last ran. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes automated discovery. "
}
},

"com.amazonaws.licensemanager#Boolean": {
"type": "boolean",
"traits": {
"smithy.api#default": false
}
},
"com.amazonaws.licensemanager#BorrowConfiguration": {
"type": "structure",
"members": {
"AllowEarlyCheckIn": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether early check-ins are allowed. ",
"smithy.api#required": {}
}
},
"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the borrow configuration, in minutes. ",
"smithy.api#required": {}
}
}

```
},
        "traits": {
            "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#BoxBoolean": {
        "type": "boolean"
    },
    "com.amazonaws.licensemanager#BoxInteger": {
        "type": "integer"
    },
    "com.amazonaws.licensemanager#BoxLong": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#CheckInLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"

     },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
```

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseRequest":
{
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicense":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members":
{
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
                    "smithy.api#required": {}
                }
```

```
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
                    "smithy.api#required": {}
                }
            },
            "DigitalSignatureMethod": {
                "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
                "traits": {
                    "smithy.api#documentation": "<p>Digital signature method. The possible
 value is JSON Web Signature (JWS) algorithm PS384.\n        For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>",
                    "smithy.api#required": {}
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation":
 "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
```

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed":
{
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " Allowed license entitlements. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"SignedToken": {
"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout
is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
}
},

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks out the specified license. \n <note>\n If the account that created the license is the same that is performing the check out, you must\n specify the account

as the beneficiary. \n </note>"
  }
  },
  "com.amazonaws.licensemanager#CheckoutLicenseRequest": {
    "type": "structure",
    "members": {
      "ProductSKU": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": " Product
 SKU. ",
          "smithy.api#required": {}
        }
      },
      "CheckoutType": {
        "target": "com.amazonaws.licensemanager#CheckoutType",
        "traits": {
          "smithy.api#documentation": " Checkout type. ",
          "smithy.api#required": {}
        }
      },
      "KeyFingerprint": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": " Key fingerprint identifying the license. ",
          "smithy.api#required": {}
        }
      },
      "Entitlements": {
        "target": "com.amazonaws.licensemanager#EntitlementDataList",
        "traits": {
          "smithy.api#documentation": " License entitlements. ",

  "smithy.api#required": {}
        }
      },
      "ClientToken": {
        "target": "com.amazonaws.licensemanager#ClientToken",
        "traits": {
          "smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request. ",
          "smithy.api#required": {}
        }
      },
      "Beneficiary": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": " License beneficiary. "

```
            }
        },
        "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        }
    },
    "traits": {

   "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
    "type": "structure",
    "members": {
        "CheckoutType": {
            "target": "com.amazonaws.licensemanager#CheckoutType",
            "traits": {
                "smithy.api#documentation": "<p>Checkout type.</p>"
            }
        },
        "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
            }
        },
        "EntitlementsAllowed": {
            "target": "com.amazonaws.licensemanager#EntitlementDataList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
            }
        },
         "SignedToken": {
            "target": "com.amazonaws.licensemanager#SignedToken",
            "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
            }
        },
        "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        },
        "IssuedAt": {
```

```
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
                }
            },
            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and
time at which the license checkout expires.</p>"
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutType": {
        "type": "enum",
        "members": {
            "PROVISIONAL": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PROVISIONAL"
                }
            },
            "PERPETUAL": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PERPETUAL"
                }
             }
        }
    },
    "com.amazonaws.licensemanager#ClientRequestToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max": 36
            }
        }
```

```
    },
    "com.amazonaws.licensemanager#ClientToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 2048
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
    "com.amazonaws.licensemanager#ConflictException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ConflictException",
                "httpResponseCode":
 409
            },
            "smithy.api#documentation": "<p>There was a conflict processing the request. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 409
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
                }
            },
            "ConsumedLicenses": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
                }
            }
        },
```

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"traits": {
            "smithy.api#documentation": "<p>Details about license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
        }
    },
    "com.amazonaws.licensemanager#ConsumptionConfiguration": {
        "type": "structure",
        "members": {
            "RenewType": {
                "target": "com.amazonaws.licensemanager#RenewType",
                "traits": {
                    "smithy.api#documentation": "<p>Renewal frequency.</p>"
                }
            },
            "ProvisionalConfiguration": {
                "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
                 }
            },
            "BorrowConfiguration": {
                "target": "com.amazonaws.licensemanager#BorrowConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
```

{
"target":
"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a grant for the specified license. A grant shares the use of license\n entitlements with a specific Amazon Web Services account, an organization, or an\n organizational unit (OU). For more
information, see Granted licenses in License Manager in the License Manager User Guide. "
}
},
"com.amazonaws.licensemanager#CreateGrantRequest": {
"type": "structure",
"members": {
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}

}
},
"LicenseArn": {

"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Principals": {
"target": "com.amazonaws.licensemanager#PrincipalArnList",
"traits": {
"smithy.api#documentation": " The grant principals. You can specify one of the following as an Amazon Resource Name\n (ARN): \n \n \n An Amazon Web Services account, which includes only the account specified. \n \n \n \n \n An organizational unit (OU), which includes all accounts in the OU. \n \n \n \n \n An organization, which will include all accounts across your organization. \n \n ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},

"com.amazonaws.licensemanager#CreateGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},

```
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersion":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
             },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
```

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information,
see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",

  "smithy.api#required": {}
                }
            },
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>"
                }
            },
            "AllowedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                 "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status reason.</p>"
```

```
            }
        },
        "SourceVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Current version of the grant.</p>"
            }
        },
        "Options": {
            "target": "com.amazonaws.licensemanager#Options",
            "traits": {
                "smithy.api#documentation": "<p>The options specified for the grant.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>New version of the grant.</p>"
            }
        }
    },
    "traits":
{
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicense": {
    "type": "operation",
```

```
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a license.</p>"
    }
},
"com.amazonaws.licensemanager#CreateLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license configuration.</p>\n        <p>A license configuration is an abstraction of a customer license agreement that can be\n        consumed and enforced by License Manager. Components include specifications for the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n        Dedicated Instance, Dedicated Host, or all of these), license affinity  to host (how long a \n        license must be associated with a host), and the number of licenses purchased and used.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the license configuration.</p>"
                }
            },
            "LicenseCountingType": {
                "target": "com.amazonaws.licensemanager#LicenseCountingType",
                "traits": {
                    "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
```

"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows. \n \n \n \n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n <code>licenseAffinityToHost</code> |\n <code>maximumCores</code> | <code>minimumCores</code>\n \n \n \n \n <code>Instances</code> dimension: <code>allowedTenancy</code> | \n <code>maximumCores</code> | <code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n \n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n <code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code>\n \n \n \n \n <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n <code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>. "
}
},

"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the license configuration. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "

```
            }
          },
          "ProductInformationList": {
            "target": "com.amazonaws.licensemanager#ProductInformationList",
            "traits": {
              "smithy.api#documentation": "<p>Product information.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse":
{
        "type": "structure",
        "members": {
          "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
           },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {

                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting
from. \n\n        For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            },
            "DestinationLicenseContext":
 {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting to.
For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
```

```
    }
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
    "type": "structure",
    "members": {
        "LicenseConversionTaskId": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

   "traits": {
                "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
         },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
```

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a report generator. "
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"ReportGeneratorName":
{
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types an be generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}

}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " Defines the type of license configuration the report generator tracks. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",

"traits": {
"smithy.api#documentation": " Unique,
case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the new report
generator. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseRequest": {
"type": "structure",
"members": {
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}

```
            },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product
name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "Issuer": {
                "target": "com.amazonaws.licensemanager#Issuer",
                "traits": {
                    "smithy.api#documentation": "<p>License issuer.</p>",
                    "smithy.api#required": {}
                }
            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Home Region for the license.</p>",
                    "smithy.api#required": {}

    }
            },
            "Validity": {
                "target": "com.amazonaws.licensemanager#DatetimeRange",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",
                    "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},

```
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
    }
```

```
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target":
"com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "LicenseName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License name.</p>",
            "smithy.api#required": {}
          }
        },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product name.</p>",
            "smithy.api#required": {}
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#Issuer",
          "traits":
{
            "smithy.api#documentation": "<p>License issuer.</p>",
            "smithy.api#required": {}
          }
        },
        "HomeRegion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Home Region of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "Validity": {
          "target": "com.amazonaws.licensemanager#DatetimeRange",
          "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
            "smithy.api#required": {}
          }
```

```
            },
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license.</p>"
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",
                    "smithy.api#required": {}
                }
            },
            "ConsumptionConfiguration": {
                "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n         running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n         usage.</p>",
                    "smithy.api#required": {}
                }
            },

   "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>",
                    "smithy.api#required": {}
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>"
                }
            }
        },
        "traits": {
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"smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": " License ARN. "
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " New version of the license. "
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": " License status. "
                }
            }
        },
        "traits": {
            "smithy.api#output":
{}
        }
    },
    "com.amazonaws.licensemanager#CreateToken": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateTokenResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },

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            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },

        {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a long-lived token.</p>\n        <p>A refresh token is a JWT token used to get an access token. With an access token,\n          you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n          call License Manager to manage the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateTokenRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits":
 {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n          JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "RoleArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n        License Manager does not check whether the roles are in use.</p>"
                }
            },
            "ExpirationInDays": {
                "target": "com.amazonaws.licensemanager#Integer",
                "traits": {
                    "smithy.api#documentation": "<p>Token expiration, in days, counted from token creation. The default is 365 days.</p>"
                }
```

```
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Data specified by the caller to be included in the JWT token. The
data is mapped\n          to the amr claim of the JWT token.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Idempotency token, valid for 10 minutes.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateTokenResponse": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",

                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
            "TokenType": {
                "target": "com.amazonaws.licensemanager#TokenType",
                "traits": {
                    "smithy.api#documentation": "<p>Token type.</p>"
                }
            },
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DateTime": {
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```
    "type": "timestamp"
  },
  "com.amazonaws.licensemanager#DatetimeRange": {
    "type": "structure",
    "members": {
      "Begin": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
          "smithy.api#documentation": "<p>Start of the time range.</p>",
          "smithy.api#required": {}
        }
      },
      "End": {
        "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
          "smithy.api#documentation": "<p>End of the time range.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
    }
  },
  "com.amazonaws.licensemanager#DeleteGrant": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
     },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
      },
      {
```

"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes
the specified grant. "
}
},
"com.amazonaws.licensemanager#DeleteGrantRequest": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " The Status reason for the delete request. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the
grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}

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            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
```

"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license configuration. \n You cannot delete a license configuration that is in use. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
"type": "structure",
"members":
{
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

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            "smithy.api#documentation": "<p>ID of the license configuration.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
       },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
```

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            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified report generator.</p>\n        <p>This action deletes the report generator, which stops it from generating future reports.\n        The action cannot be reversed. It has no effect on the previous reports from this generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to be deleted.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {

 "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>",
                    "smithy.api#required":
```

{}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseResponse": {
"type": "structure",
"members": {
"Status": {
"target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"DeletionDate": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date when the license is deleted. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"

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            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },

        {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}

      }
    },
    "com.amazonaws.licensemanager#DigitalSignatureMethod": {
        "type": "enum",
        "members": {
            "JWT_PS384": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "JWT_PS384"
                }
```

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            }
        }
    },
    "com.amazonaws.licensemanager#Entitlement": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement name.</p>",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement resource. Use only
if the unit is None.</p>"
                }
            },
            "MaxCount": {
                "target": "com.amazonaws.licensemanager#Long",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
                }
            },
            "Overage": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether overages are allowed.</p>"
                }
            },
            "Unit": {
                "target": "com.amazonaws.licensemanager#EntitlementUnit",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement unit.</p>",
                    "smithy.api#required": {}
                }
            },
            "AllowCheckIn": {
                "target":
"com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether check-ins are allowed.</p>"
                }
            }
        },
        "traits": {
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"smithy.api#documentation": " Describes a resource entitled for use with a license. "
}
},
"com.amazonaws.licensemanager#EntitlementData": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement
data value. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {
"smithy.api#documentation": " Entitlement data unit. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Data associated with an entitlement resource. "
}
},
"com.amazonaws.licensemanager#EntitlementDataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#EntitlementData"
}
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
"type": "enum",
"members": {
"COUNT": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Count"
}
},

"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"SECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Seconds"
}
},
"MICROSECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Microseconds"
}
},
"MILLISECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Milliseconds"
}
},
"BYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes"
}
},
"KILOBYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes"
}
},
"MEGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes"
}
},
"GIGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes"
}
},

"TERABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"

}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"

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            }
        },
        "KILOBYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes/Second"
            }
        },
        "MEGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes/Second"
            }
        },
        "GIGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Gigabytes/Second"
            }
        },
        "TERABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabytes/Second"
            }
        },
        "BITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bits/Second"
            }
        },
        "KILOBITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobits/Second"
            }
        },
        "MEGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue":
"Megabits/Second"
            }
        },
        "GIGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
```

"smithy.api#enumValue": "Gigabits/Second"
}
},
"TERABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits/Second"
}
},
"COUNT_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count/Second"
}
}
}
},
"com.amazonaws.licensemanager#EntitlementList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Entitlement"
}
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The entitlement is not allowed. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#EntitlementUnit": {
"type": "enum",
"members": {
"COUNT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count"
}
},
"NONE": {
"target": "smithy.api#Unit",

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            "traits": {
                "smithy.api#enumValue": "None"
            }
        },
        "SECONDS":
{
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Seconds"
            }
        },
        "MICROSECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Microseconds"
            }
        },
        "MILLISECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Milliseconds"
            }
        },
        "BYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bytes"
            }
        },
        "KILOBYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes"
             }
        },
        "MEGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes"
            }
        },
        "GIGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabytes"
            }
        },
        "TERABYTES": {
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"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"
}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target":
"smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"
}

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            },
            "KILOBYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Kilobytes/Second"
                }
            },
            "MEGABYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Megabytes/Second"
                }
            },
            "GIGABYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Gigabytes/Second"
                }
            },
            "TERABYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {

"smithy.api#enumValue": "Terabytes/Second"
                }
            },
            "BITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Bits/Second"
                }
            },
            "KILOBITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Kilobits/Second"
                }
            },
            "MEGABITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Megabits/Second"
                }
            },
            "GIGABITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Gigabits/Second"
```

```
            }
        },

    "TERABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits/Second"
            }
        },
        "COUNT_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Count/Second"
            }
        }
    }
},
"com.amazonaws.licensemanager#EntitlementUsage": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                "smithy.api#required": {}
            }
        },
        "ConsumedValue": {
            "target": "com.amazonaws.licensemanager#String",

        "traits": {
                "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxCount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                "smithy.api#required": {}
            }
        }
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        },
        "traits": {
            "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementUsageList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
```

"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",
"smithy.api#required": {}

}
},
"DryRun": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#default": false,
"smithy.api#documentation": " Checks whether you have the required permissions for the action, without actually making the request. Provides an error response if you do not have the required permissions. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},

"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license consumption expires. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#FailedDependencyException": {
"type": "structure",
"members": {
"Message": {

"target": "com.amazonaws.licensemanager#Message"
},
"ErrorCode": {
"target": "com.amazonaws.licensemanager#String"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FailedDependency",
"httpResponseCode": 424
},
"smithy.api#documentation":
" A dependency required to run the API is missing. ",
"smithy.api#error": "client",
"smithy.api#httpError": 424
}
},
"com.amazonaws.licensemanager#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#FilterName",
"traits": {
"smithy.api#documentation": " Name of the filter. Filter names are case-sensitive. "
}
},
"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " The value of the filter, which is case-sensitive. You can only
specify one value for the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter
name and value pair that is used to return more specific results from a\n describe operation. Filters can be used
to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {

```
        "aws.protocols#awsQueryError": {
            "code": "FilterLimitExceeded",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#FilterList": {
    "type": "list",
     "member": {
        "target": "com.amazonaws.licensemanager#Filter"
    }
},
"com.amazonaws.licensemanager#FilterName": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#FilterValue",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#Filters": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Filter",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#GetAccessToken": {
    "type": "operation",
    "input": {
         "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
    },
    "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access
 tokens\n          are valid for one hour.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenRequest": {
        "type": "structure",
        "members": {
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT
token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenResponse":
 {
        "type": "structure",
        "members": {
```

```
        "AccessToken": {
            "target": "com.amazonaws.licensemanager#TokenString",
            "traits": {
                "smithy.api#documentation": "<p>Temporary access token.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"

    },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
```

```
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
                "smithy.api#documentation": "<p>Grant details.</p>"
            }
        }
    },
    "traits": {

"smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
```

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"

},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license configuration. "

```
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits":
 {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            },
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>"
                 }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the license configuration.</p>"
                }
            },
            "LicenseCountingType": {
                "target": "com.amazonaws.licensemanager#LicenseCountingType",
```

"traits": {
"smithy.api#documentation": " Dimension for which the licenses are counted. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",

"traits": {
"smithy.api#documentation": " Number of available licenses. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Sets the number of available licenses as a hard limit. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses assigned to resources. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License configuration status. "
}

},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},

"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When
true, disassociates a resource when software is uninstalled. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified license type conversion task. "
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. "

```
            }
        },
        "SourceLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information
about the license type converted from.</p>"
            }
        },
        "DestinationLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license type converted to.</p>"
            }
        },
        "StatusMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
            "traits": {
                "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
            }
        },

  "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
            }
        },
        "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
            }
        },
        "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
            }
        }
    },
```

```
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

         },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. ",
"smithy.api#required":
{}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"ReportGenerator": {
"target": "com.amazonaws.licensemanager#ReportGenerator",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic reports about your license configurations. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#input": {}
}

```
    },
    "com.amazonaws.licensemanager#GetLicenseResponse": {
        "type": "structure",
        "members": {
            "License": {
                "target": "com.amazonaws.licensemanager#License",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },

"com.amazonaws.licensemanager#GetLicenseUsage": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

"target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
        }
```

```
    },
    "com.amazonaws.licensemanager#GetLicenseUsageRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageResponse": {
      "type": "structure",
      "members": {
        "LicenseUsage": {
          "target":
"com.amazonaws.licensemanager#LicenseUsage",
          "traits": {
            "smithy.api#documentation": "<p>License usage details.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
discovery data,\n        and so on.</p>"

  }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>SNS topic configured to receive notifications from License
Manager.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether Organizations is integrated with License
Manager for\n        cross-account discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether cross-account discovery is enabled.</p>"
                }
```

```
        },
            "LicenseManagerResourceShareArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
Manager management account \n        provides member accounts with access to this share.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Grant": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {

 "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ParentArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Parent ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>License ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "GranteePrincipalArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
```

"smithy.api#documentation": " The grantee principal ARN. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. ",
"smithy.api#required": {}
}
},
"GrantedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Granted operations. ",
"smithy.api#required": {}
}
},
"Options": {
"target": "com.amazonaws.licensemanager#Options",
"traits": {
"smithy.api#documentation": " The options specified for the grant. "
}
}
},
"traits": {
"smithy.api#documentation":

" Describes a grant. "
}
},
"com.amazonaws.licensemanager#GrantList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Grant"
}
},
"com.amazonaws.licensemanager#GrantStatus": {
"type": "enum",
"members": {
"PENDING_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_WORKFLOW"
}
},
"PENDING_ACCEPT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_ACCEPT"
}
},
"REJECTED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REJECTED"

}
},
"ACTIVE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ACTIVE"
}
},
"FAILED_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "FAILED_WORKFLOW"
}
},
"DELETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DELETED"
}

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            },
            "PENDING_DELETE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_DELETE"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                "traits":
{
                    "smithy.api#enumValue": "DISABLED"
                }
            },
            "WORKFLOW_COMPLETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "WORKFLOW_COMPLETED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GrantedLicense": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>"
                }

  },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product name.</p>"
                }
            },
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>"
```

```
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>Granted license issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the granted license.</p>"

         }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>Granted license status.</p>"
            }
        },
        "Validity": {
            "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {
                "smithy.api#documentation": "<p>Date and time range during which the granted license is valid, in
ISO8601-UTC format.</p>"
            }
        },
        "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Granted license beneficiary.</p>"
            }
        },
        "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
             "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>"
            }
        },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
            }
        },
        "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
```

"traits": {
"smithy.api#documentation": " Granted license metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Creation time of the granted license. "

}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Version of the granted license. "
}
},
"ReceivedMetadata": {
"target": "com.amazonaws.licensemanager#ReceivedMetadata",
"traits": {
"smithy.api#documentation": " Granted license received metadata. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a license that is granted to a grantee. "
}
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#GrantedLicense"
}
},
"com.amazonaws.licensemanager#ISO8601DateTime":
{
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
}
},
"com.amazonaws.licensemanager#Integer": {
"type": "integer"

```
    },
    "com.amazonaws.licensemanager#InvalidParameterValueException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidParameterValueProvided",
                "httpResponseCode": 400
            },
            "smithy.api#documentation":
 "<p>One or more parameter values are not valid.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InvalidResourceStateException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidResourceState",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n        <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },

    "com.amazonaws.licensemanager#InventoryFilter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the filter.</p>",
                    "smithy.api#required": {}
                }
```

```
        },
        "Condition": {
            "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
            "traits": {
                "smithy.api#documentation": "<p>Condition of the filter.</p>",
                "smithy.api#required": {}
            }
        },
        "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Value of the filter.</p>"
            }
        }

    },
    "traits": {
        "smithy.api#documentation": "<p>An inventory filter.</p>"
    }
  },
  "com.amazonaws.licensemanager#InventoryFilterCondition": {
    "type": "enum",
    "members": {
        "EQUALS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EQUALS"
            }
        },
        "NOT_EQUALS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "NOT_EQUALS"
            }
        },
        "BEGINS_WITH": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "BEGINS_WITH"
            }
        },
        "CONTAINS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "CONTAINS"
            }
        }
    }
```

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    },
    "com.amazonaws.licensemanager#InventoryFilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#InventoryFilter"
        }
    },
    "com.amazonaws.licensemanager#Issuer": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>",
                    "smithy.api#required": {}
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage
 of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about the issuer of a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#IssuerDetails": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>"
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
                }
            },
            "KeyFingerprint": {
```

```
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
    }
},
"com.amazonaws.licensemanager#License": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

       "smithy.api#documentation": "<p>License name.</p>"
            }
        },
        "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product name.</p>"
            }
        },
        "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product SKU.</p>"
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>License issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Home Region of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"Entitlements": {

"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " License metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License creation time. "
}
},

```
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
    "type": "structure",
    "members": {
        "LicenseConfigurationId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
            }
        },
        "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
        },
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the license configuration.</p>"
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
                "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
             }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules.</p>"
```

```
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Number of available licenses as a hard limit.</p>"
            }
        },
        "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
             "traits": {
                "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses consumed. </p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Status of the license configuration.</p>"
            }
        },
        "OwnerAccountId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Account ID of the license configuration's owner.</p>"

        }
        },
        "ConsumedLicenseSummaryList": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Summaries for licenses consumed by various resources.</p>"
            }
        },
        "ManagedResourceSummaryList": {
            "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
```

"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {

"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource consuming licenses. "
}

```
            },
            "AssociationTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {

    "smithy.api#documentation": "<p>Time when the license configuration was associated with the resource.</p>"
                }
            },
            "AmiAssociationScope": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes an association with a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
        "type": "enum",
        "members":
{
            "AVAILABLE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "AVAILABLE"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DISABLED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
        "type": "structure",
        "members": {
            "ResourceArn": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits":
{
"smithy.api#documentation": " Type of resource. "
}
},
"ResourceStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was initially associated with the resource. "
}
},

"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"

```
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurations": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfiguration"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionContext": {

  "type": "structure",
        "members": {
            "UsageOperation": {
                "target": "com.amazonaws.licensemanager#UsageOperation",
                "traits": {
                    "smithy.api#documentation": "<p>The Usage operation value that corresponds to the license type you
are converting your resource from.  For more information about which platforms correspond to which usage
operation values see <a href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-
fields.html#billing-info\">Sample data: usage operation by platform\n      </a>\n         </p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTask": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {

     "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the license type conversion task.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource associated
with the license type\n         conversion task.</p>"
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license type this conversion task converted
from.</p>"
```

```
            }
        },
        "DestinationLicenseContext": {
            "target":
 "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license type this conversion task converted
to.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
            "traits": {
                "smithy.api#documentation": "<p>The status of the conversion task.</p>"
            }
        },
        "StatusMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
        },
        "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation":
 "<p>The time the conversion task was started at.</p>"
            }
        },
        "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>The time the usage operation value of the resource was
changed.</p>"
            }
        },
        "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseConversionTaskId": {
```

```
        "type": "string",
        "traits": {

       "smithy.api#length": {
            "min": 0,
            "max": 50
          },
          "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
        "type": "enum",
        "members": {
          "IN_PROGRESS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "IN_PROGRESS"
            }
          },
          "SUCCEEDED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "SUCCEEDED"
            }
          },
          "FAILED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "FAILED"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTasks":
  {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#LicenseConversionTask"
        }
      },
      "com.amazonaws.licensemanager#LicenseCountingType": {
        "type": "enum",
        "members": {
          "VCPU": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "vCPU"
            }
```

```
        },
        "INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Instance"
            }
        },
        "CORE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Core"
            }
        },
        "SOCKET": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Socket"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {
    "type": "enum",
    "members": {
        "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {

    "type": "structure",
    "members": {
```

"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Resource type. "
}
},
"ErrorMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Error message. "
}
},
"FailureTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " Failure time. "
}
},
"OperationName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the operation. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource. "
}
},
"OperationRequestedBy": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The requester is \"License Manager Automated Discovery\". "
}
},
"MetadataList": {

"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {

"smithy.api#documentation": " Reserved. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the failure of a license operation. "
}
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailure"
}
},
"com.amazonaws.licensemanager#LicenseSpecification": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",

"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseSpecification"
}
},
"com.amazonaws.licensemanager#LicenseStatus": {
"type": "enum",
"members": {
"AVAILABLE": {

"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "AVAILABLE"
}
},
"PENDING_AVAILABLE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_AVAILABLE"
}
},
"DEACTIVATED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DEACTIVATED"
}
},
"SUSPENDED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SUSPENDED"
}
},
"EXPIRED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "EXPIRED"
}
},

"PENDING_DELETE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_DELETE"
}
},
"DELETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DELETED"
}
}
}
},
"com.amazonaws.licensemanager#LicenseUsage": {
"type": "structure",
"members": {

"EntitlementUsages": {
"target": "com.amazonaws.licensemanager#EntitlementUsageList",
"traits": {
"smithy.api#documentation": " License entitlement usages. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the entitlement usage associated with a license. "

}
},
"com.amazonaws.licensemanager#LicenseUsageException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "LicenseUsageFailure",
"httpResponseCode": 412
},
"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"

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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the resource associations for the
 specified license configuration.</p>\n        <p>Resource associations need not consume licenses from a license
configuration. \n        For example, an AMI or a stopped instance might not consume a license (depending on \n
the license rules).</p>"
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results
 to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
        "type": "structure",
```

"members": {
"LicenseConfigurationAssociations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license configuration. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants distributed for the specified license. "
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranteePrincipalARN</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",

"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",

"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configuration operations that failed. "
}

```
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
      "type": "structure",
      "members": {
        "LicenseConfigurationArn": {
          "target": "com.amazonaws.licensemanager#String",
           "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
            "smithy.api#required": {}
          }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#BoxInteger",
          "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse":
{
      "type": "structure",
      "members": {
        "LicenseOperationFailureList": {
          "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
          "traits": {
            "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
```

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    },
    "com.amazonaws.licensemanager#ListLicenseConfigurations": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },

    "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations
 for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
```

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next
set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical
operators\n are supported: \n \n \n \n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n
\n <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>. \n
\n \n \n <code>usagelimitExceeded</code> - A Boolean value that
indicates whether the available licenses have been exceeded. \n Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
"type": "structure",
"members": {
"LicenseConfigurations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurations",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasks": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license type conversion tasks for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
"type": "structure",
"members": {
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}

```
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>\n        Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n      </p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTasks": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configuration tasks for your
 account.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
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"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the report generators for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest":
{
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported:
\n \n \n \n <code>LicenseConfigurationArn</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits":
{
"smithy.api#documentation": " Maximum number of results to return in a single call. "

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            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
          "ReportGenerators": {
            "target": "com.amazonaws.licensemanager#ReportGeneratorList",
            "traits": {
              "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }

        }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
```

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Describes the license configurations for the specified resource. "
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a resource that has an associated license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {
"LicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " License configurations associated with a resource. "
}
},

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        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
```

```
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
              "smithy.api#documentation": "<p>License details.</p>"
            }
          },

"NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenses": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicensesRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicensesResponse"
        },
```

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses for your account. "
}
},
"com.amazonaws.licensemanager#ListLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>Status</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token

for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#LicenseList",
"traits": {
"smithy.api#documentation": " License details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists grants that are received. Received grants are grants created while specifying the\n recipient as this Amazon Web Services account, your organization, or an organizational unit\n (OU) to which this member account belongs. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},

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            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants received for all accounts in the organization.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the received license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n
    <ul>\n        <li>\n            <p>\n                <code>ParentArn</code>\n            </p>\n        </li>\n
<li>\n            <p>\n                <code>GranteePrincipalArn</code>\n            </p>\n        </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
```

"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Lists the grants the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranterAccountId</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},

```
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
    "type": "structure",
    "members": {
        "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
             "traits": {
                "smithy.api#documentation": "<p>Received grant details.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
         },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists received licenses.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {

    "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
```

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses received for all accounts in the organization. "
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#GrantedLicenseList",
"traits": {
"smithy.api#documentation": " Lists the licenses the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>IssuerName</code>\n \n \n \n \n <code>Beneficiary</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
"type": "structure",

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    "members": {
      "Licenses": {
        "target": "com.amazonaws.licensemanager#GrantedLicenseList",
        "traits": {
          "smithy.api#documentation": "<p>Received license details.</p>"
        }
      },

      "NextToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#ListResourceInventory": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#FailedDependencyException"
      },
      {
        "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
```

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            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                 "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#InventoryFilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource.\n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                    <code>application_name</code> - The name of the application. \n                Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n    </li>\n            <li>\n                <p>\n                    <code>license_included</code> - The type of license included. \n            Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n                Possible values are <code>sql-server-enterprise</code> | \n                <code>sql-server-standard</code> | \n                <code>sql-server-web</code> |  \n                <code>windows-server-datacenter</code>.</p>\n            </li>\n            <li>\n    <p>\n                    <code>platform</code> - The platform of the resource.\n                Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n            </li>\n            <li>\n                <p>\n        <code>resource_id</code> - The ID of the resource. \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n      <code>tag:<key></code> - The key/value combination of a tag assigned \n                to the resource. Logical operators are <code>EQUALS</code> (single account) or\n                <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account).</p>\n            </li>\n        </ul>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
```

"com.amazonaws.licensemanager#ListResourceInventoryResponse": {
"type": "structure",
"members": {
"ResourceInventoryList": {
"target": "com.amazonaws.licensemanager#ResourceInventoryList",
"traits": {
"smithy.api#documentation": " Information
about the resources. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListTagsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the tags for the specified license configuration. "

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        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the tags.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors":
[
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
            "TokenIds": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {

                  "smithy.api#documentation": "<p>Token IDs.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
    <ul>\n        <li>\n        <p>\n        <code>LicenseArns</code>\n        </p>\n        </li>\n
</ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation":
 "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
```

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            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokensResponse": {
        "type": "structure",
        "members": {
            "Tokens": {
                "target": "com.amazonaws.licensemanager#TokenList",
                "traits": {
                    "smithy.api#documentation": "<p>Received token details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying license\n        consumption details by resource at a selected point in time. Use this action to audit the\n        current license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>resourceArn</code> - The ARN of the license configuration resource.\n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>resourceAccount</code> - The ID of the account that owns the resource. \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
                }
            }
```

```
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
        "type": "structure",
        "members": {

"LicenseConfigurationUsageList": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Location": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#Long": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#ManagedResourceSummary": {
        "type": "structure",
        "members": {
            "ResourceType":
{
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
                }
            },
            "AssociationCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
                }
            }
```

```
    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {

"type": "integer",
    "traits": {
        "smithy.api#range": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The key name.</p>"
            }
        },

"Value": {
            "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " The value. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes key/value pairs. "
}
},
"com.amazonaws.licensemanager#MetadataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Metadata"
}
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#Options": {
"type": "structure",
"members": {
"ActivationOverrideBehavior": {
"target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
"traits": {
"smithy.api#documentation": " An activation option for your grant that determines the behavior of activating a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter. \n \n \n As a license administrator, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant. \n \n \n As a grantor, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your organization. \n \n \n As a grantee, if the grantor creating the distributed grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n are activating the grant. \n \n \n <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n Use this value to activate a grant without replacing any member accounts\n active grants for the same product. \n </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n Use this value to activate a

grant and disable other active grants in any\n member accounts
for the same product. This action will also replace their\n previously activated grants with this activated grant. \n </dd>\n </dl>"
}
}
},
"traits": {
"smithy.api#documentation": " The options you can specify when you create a new version of a grant, such as activation\n override behavior. For more information, see Granted licenses in License Manager in the License Manager User Guide. "
}
},
"com.amazonaws.licensemanager#OrganizationConfiguration": {
"type": "structure",
"members": {
"EnableIntegration": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#default": false,
"smithy.api#documentation": " Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n <code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n \n ",
"smithy.api#required": {}
}
}
},

```
    "traits": {
        "smithy.api#documentation": "<p>Describes product information for a license configuration.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
    "type": "structure",
    "members": {
        "ProductInformationFilterName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Filter name.</p>",
                "smithy.api#required": {}
            }
        },
        "ProductInformationFilterValue": {
            "target": "com.amazonaws.licensemanager#StringList",

      "traits": {
                "smithy.api#documentation": "<p>Filter value.</p>"
            }
        },
        "ProductInformationFilterComparator": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Logical operator.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes product information filters.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformationFilter"
    }
},
"com.amazonaws.licensemanager#ProductInformationList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformation"
     }
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
    "type": "structure",
    "members": {
```

"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the provisional configuration, in minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"com.amazonaws.licensemanager#RateLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "RateLimitExceeded",
"httpResponseCode": 429
},
"smithy.api#documentation": " Too many requests have been submitted. Try again after a brief wait. ",
"smithy.api#error": "client",
"smithy.api#httpError": 429
}
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
"type": "structure",
"members": {
"ReceivedStatus": {
"target": "com.amazonaws.licensemanager#ReceivedStatus",
"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Received status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",

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            "traits": {
                "smithy.api#documentation": "<p>Allowed operations.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Metadata associated with received licenses and grants.</p>"
    }
},
"com.amazonaws.licensemanager#ReceivedStatus": {
    "type": "enum",
    "members": {
        "PENDING_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_WORKFLOW"
            }
        },
        "PENDING_ACCEPT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue":
"PENDING_ACCEPT"
            }
        },
        "REJECTED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "REJECTED"
            }
        },
        "ACTIVE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "ACTIVE"
            }
        },
        "FAILED_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
```

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        },
        "DISABLED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DISABLED"
            }
        },
        "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#RedirectException": {
    "type": "structure",
    "members": {
        "Location": {
            "target": "com.amazonaws.licensemanager#Location",
            "traits": {
                "smithy.api#httpHeader": "Location"
            }
        },
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 308
    }
},
"com.amazonaws.licensemanager#RejectGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#RejectGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#RejectGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}

  }
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
```

"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#RenewType":
{
"type": "enum",
"members": {
"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"WEEKLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Weekly"
}
},
"MONTHLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Monthly"
}
}
}
},
"com.amazonaws.licensemanager#ReportContext": {
"type": "structure",
"members": {
"licenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details of the license configuration that this generator reports on. "
}
},
"com.amazonaws.licensemanager#ReportFrequency": {
"type": "structure",
"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "
}
},
"period": {
"target": "com.amazonaws.licensemanager#ReportFrequencyType",

"traits": {
"smithy.api#documentation": " Time period between each report. The period can be daily, weekly, or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"com.amazonaws.licensemanager#ReportFrequencyType": {
"type": "enum",
"members": {
"DAY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DAY"
}
},
"WEEK": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "WEEK"
}
},

"MONTH": {
"target": "smithy.api#Unit",
"traits":
{
"smithy.api#enumValue": "MONTH"
}
}
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the report generator. "
}
},
"ReportType": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports that are generated. "
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " License
configuration type for this generator. "
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. "
}
},
"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}

},
"LastRunFailureReason":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Failure message for the last report generation attempt. "
}
},
"LastReportGenerationTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the last report was generated at. "
}
},
"ReportCreatorAccount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Web Services account ID used to create the report generator. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the report was created. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags associated with the report generator. "
}

}
},
"traits": {
"smithy.api#documentation": " Describe the details of a report generator. "
}
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportGenerator"
}
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
}
}
},
"com.amazonaws.licensemanager#ReportType": {
"type": "enum",
"members": {
"LICENSE_CONFIGURATION_SUMMARY_REPORT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "LicenseConfigurationSummaryReport"
}

},
"LICENSE_CONFIGURATION_USAGE_REPORT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "LicenseConfigurationUsageReport"
}
}
}
},
"com.amazonaws.licensemanager#ReportTypeList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportType"
}
},
"com.amazonaws.licensemanager#ResourceInventory": {
"type": "structure",
"members": {

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            "ResourceId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits":
{
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "Platform": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform of the resource.</p>"
                }
            },
            "PlatformVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
                }
            },
            "ResourceOwningAccountId":
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ResourceInventoryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ResourceInventory"
        }
```

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},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "ResourceLimitExceeded",

         "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>Your resource limits have been exceeded.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "InvalidResource.NotFound",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The resource cannot be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceType": {
    "type": "enum",
     "members": {
        "EC2_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_INSTANCE"
            }
        },
        "EC2_HOST": {
            "target": "smithy.api#Unit",
            "traits": {
```

"smithy.api#enumValue": "EC2_HOST"
}
},
"EC2_AMI": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "EC2_AMI"
}
},
"RDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "RDS"
}
},
"SYSTEMS_MANAGER_MANAGED_INSTANCE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
}
}
}
},
"com.amazonaws.licensemanager#S3Location": {
"type": "structure",
"members": {
"bucket": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the S3 bucket reports are published to. "
}
},
"keyPrefix": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Prefix of the S3 bucket reports are published to. "
}
}
},
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
"type": "structure",
"members": {
"Message": {

"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InternalError",
"httpResponseCode": 500
},
"smithy.api#documentation": " The server experienced an internal error. Try again. ",
"smithy.api#error": "server",
"smithy.api#httpError": 500
}
},
"com.amazonaws.licensemanager#SignedToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 4096
}
}
},
"com.amazonaws.licensemanager#StatusReasonMessage": {
"type": "string",
"traits":
{
"smithy.api#length": {
"min": 0,
"max": 400
},
"smithy.api#pattern": "^[\\s\\S]+$"
}
},
"com.amazonaws.licensemanager#String": {
"type": "string"
},
"com.amazonaws.licensemanager#StringList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#String"
}
},
"com.amazonaws.licensemanager#Tag": {
"type": "structure",
"members": {
"Key": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Tag key. "

```
            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation":
"<p>Tag value.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#String"
        }
      },
      "com.amazonaws.licensemanager#TagList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#Tag"
        }
      },
      "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
          {
            "target":
"com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
```

```
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits":
 {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>One or more tags.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
```

"TokenType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Type of token generated. The supported value is <code>REFRESH_TOKEN</code>. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"ExpirationTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Token expiration time, in ISO8601-UTC format. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller. "
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the roles included in the token. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. "
}
}
},
"traits": {

"smithy.api#documentation": " Describes a token. "
}
},
"com.amazonaws.licensemanager#TokenList": {
"type": "list",

"member": {
"target": "com.amazonaws.licensemanager#TokenData"
}
},
"com.amazonaws.licensemanager#TokenString": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 4096
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#TokenType": {
"type": "enum",
"members": {
"REFRESH_TOKEN": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REFRESH_TOKEN"
}
}
}
},
"com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException":
{
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The digital signature method is unsupported. Try your request
again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#UntagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UntagResourceResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Removes the specified tags from the specified license configuration. "
}
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",
"traits": {
"smithy.api#documentation": " Keys identifying the tags to remove. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
"type": "structure",
"members": {},

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Modifies the attributes of an existing license configuration. "
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},

"LicenseConfigurationStatus": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
"traits": {
"smithy.api#documentation": " New status of the license configuration. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " New license rule. The only rule that you can add after you create a license\n configuration is licenseAffinityToHost. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " New number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",

"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
},
"traits":
{
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},

```
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates a report generator.</p>\n        <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to update.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportGeneratorName": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>",
                    "smithy.api#required": {}
                }
            },
            "Type": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports to generate. The following report types are supported:</p>\n        <ul>\n            <li>\n                <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p>\n            </li>\n            <li>\n                <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n            </li>\n        </ul>",
                    "smithy.api#required": {}
                }
            },
            "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
                    "smithy.api#documentation": "<p>The report context.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportFrequency": {
                "target": "com.amazonaws.licensemanager#ReportFrequency",
```

"traits":
{
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },

            {
                "target": "com.amazonaws.licensemanager#InvalidResourceStateException"
            },
            {
                "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p>\n        <p>You can update the license specifications of AMIs, instances, and
hosts.\n        You cannot update the license specifications for launch templates and CloudFormation templates, \n
  as they send license configurations to the operation that creates the resource.</p>"
        }
    },

    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "AddLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
                }
            },
            "RemoveLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation":
 "<p>ARNs of the license configurations to remove.</p>"
                }
```

```
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {},
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
    }
},
"com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
    "type": "structure",
    "members": {
        "S3BucketArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon S3 bucket where the License
Manager information is stored. "
}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Enables integration with Organizations for cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Activates cross-account discovery. "

}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UsageOperation": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
}
}
},
"com.amazonaws.licensemanager#ValidationException": {

```
            "type": "structure",
            "members": {
                "Message": {
                    "target": "com.amazonaws.licensemanager#Message"
                }
            },
            "traits": {
                "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",

        "smithy.api#error": "client",
                "smithy.api#httpError": 400
            }
        }
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {
```

```
 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version
 of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack,
 options); err != nil {
  return err
```

```
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if
 err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
```

```
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
```

1.4326 kubernetes-cri-api 0.27.1

1.4326.1 Available under license :

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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localtime.go, localtime_test.go:

Originals:
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Changes:
   * Renamed files from civil* to localtime*.
   * Package changed from civil to toml.
   * 'Local' prefix added to all structs.
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1.4330 aws-sdk-go-v2-internal-configsources 1.2.10

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```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil,
 err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
```

```
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err !=
 nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
```

```
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack);
err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addDisableHTTPSMiddleware(stack,
```

```
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
```

AWS SDK for Go

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```
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
```

```
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
      uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
```

```
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
```

```
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return
err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckInLicense",
 }
}
{
  "smithy": "2.0",
  "shapes": {
     "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
        "type": "integer"
     },
     "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
        "type": "long"
     },
     "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
        "type": "structure",
        "members": {
           "Name": {
              "target": "smithy.api#String",
              "traits": {
                 "smithy.api#documentation": "<p>The type of name to filter by.</p>"
              }
           },
           "Values": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
              "traits": {
                 "smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
              }
           },
           "Operator": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
               "traits": {
                 "smithy.api#documentation": "<p>An operator for filtering results.</p>"
              }
```

```
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A filter object that is used to return more specific results from a describe
operation.\n      Filters can be used to match a set of resources by specific criteria.</p>"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
        },
        "output": {

          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the Linux subscriptions service settings.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/GetServiceSettings"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest":
{
        "type": "structure",
        "members": {}
    },
```

"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " Lists the settings defined for Linux subscriptions discovery. The settings include if\n Organizations integration has been enabled, and
which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays
the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
"type": "structure",
"members": {
"AmiId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The AMI ID used to launch the instance. "
}

```
            },
            "InstanceID": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The instance ID of the resource.</p>"
                }
            },
            "InstanceType": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The instance type of the resource.</p>"
                }

        },
            "AccountID": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The account ID which owns the instance.</p>"
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status of the instance.</p>"
                }
            },
            "Region": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Region the instance is running in.</p>"
                }
            },
            "UsageOperation": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The usage operation of the instance. For more information, see For
 more information, see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-
subscriptions-usage-operation.html\">Usage\n        operation values</a> in the <i>License Manager User
Guide</i>.</p>"
                }
            },
            "ProductCode": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
                "traits": {
                    "smithy.api#documentation": "<p>The product code for the instance. For more information, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-
operation.html\">Usage\n        operation values</a> in the <i>License Manager User Guide</i> .</p>"
                }
```

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            },
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                "traits": {
                    "smithy.api#documentation": "<p>The time in which the last discovery
 updated the instance details.</p>"
                }
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            "SubscriptionName": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the subscription being used by the instance.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details discovered information about a running instance using Linux
subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
             }
        },
        "traits": {
            "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
            "smithy.api#error": "server"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
        "type": "service",
        "version": "2018-05-10",
        "operations": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
            },
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{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
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{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
}
],

"traits": {
"aws.api#service": {
"sdkId": "License Manager Linux Subscriptions",
"arnNamespace": "license-manager-linux-subscriptions",
"cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
},
"aws.auth#sigv4": {
"name": "license-manager-linux-subscriptions"
},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",

"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"
]
},
"smithy.api#documentation": " With License Manager, you can discover and track your commercial Linux subscriptions on running\n Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager Linux Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {

"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The
AWS region used to dispatch the request.",
"type": "String"
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"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

"type": "Boolean"
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"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}
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"rules": [
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"conditions": [
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"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
]
}
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"type": "tree",
"rules": [
{

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"conditions": [
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            "argv": [
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                    "ref": "UseFIPS"
                },
                true
            ]
        }
    ],
    "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
    "type": "error"
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    "rules": [
        {

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                    "fn": "booleanEquals",
                    "argv": [
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                            "ref": "UseDualStack"
                        },
                        true
                    ]
                }
            ],
            "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
            "type": "error"
        },
        {
            "conditions": [],

"endpoint": {
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                    "ref": "Endpoint"
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                "properties": {},
                "headers": {}
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            "type": "endpoint"
        }
    ]
}
```

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                                    "argv": [
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                                            "ref": "Region"
                                        }
                                    ],

"assign": "PartitionResult"
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                                            "argv": [
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                                                    "ref": "UseFIPS"
                                                },
                                                true
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                        ]
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                            {

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                                "argv": [
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                                    {
                                        "fn": "getAttr",
                                        "argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },
                                            "supportsFIPS"
                                        ]

}
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                            },
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                                "fn": "booleanEquals",
                                "argv": [
                                    true,
                                    {
                                        "fn": "getAttr",
                                        "argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },

                                "supportsDualStack"
                                        ]
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                                ]
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"url": "https://license-manager-linux-subscriptions-fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
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"type": "endpoint"
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"conditions": [],
"error": "FIPS and DualStack are enabled, but this partition does not support one or both",
"type": "error"
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                        "supportsFIPS"
                      ]
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                  "type": "tree",
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                        "properties": {},
                        "headers": {}

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                      "type": "endpoint"
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              "error": "FIPS is enabled but this partition does not support FIPS",
              "type": "error"
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              "conditions": [
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                        ]
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                                        "argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },
                                            "supportsDualStack"
                                        ]
                                    }
                                ]
                            }
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                                "rules": [
                                    {
                                        "conditions": [],

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subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                            "properties": {},
                                            "headers": {}
                                        },
                                        "type": "endpoint"
                                    }
```

```
                                    ]
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                            "error": "DualStack is enabled but this partition does not support DualStack",
                            "type": "error"
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                    ]
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                    "type": "tree",
                    "rules": [
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"https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                                "properties": {},
                                "headers": {}
                            },
                            "type": "endpoint"
                        }
                    ]
                }
            ]
        }
    ]
},
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    "conditions": [],
    "error": "Invalid Configuration: Missing Region",
    "type": "error"
}
]
}
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"smithy.rules#endpointTests": {
    "testCases": [
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            "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
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            }
        },
        "params": {
            "Region": "us-east-1",
            "UseFIPS": true,
            "UseDualStack": true
        }
    },
    {
        "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
        "expect": {

"endpoint": {
                "url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "us-east-1",
            "UseFIPS": true,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
            }
        },
        "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
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        }
    },
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        "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
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        },
        "params": {
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            "UseFIPS": false,
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        }
    },
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              "expect": {
                "endpoint": {

              "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
                }
              },
              "params": {
                "Region": "cn-north-1",
                "UseFIPS": true,
                "UseDualStack": true
              }
            },
            {
              "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
                }
              },
              "params": {
                "Region": "cn-north-1",
                "UseFIPS": true,
                 "UseDualStack": false
              }
            },
            {
              "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
                }
              },
              "params": {
                "Region": "cn-north-1",
                "UseFIPS": false,
                "UseDualStack": true
              }
            },
            {
              "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
              "expect": {
                "endpoint":
{
                  "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
                }
              },
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"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
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{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
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"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
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"endpoint": {
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"UseDualStack": false
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"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
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"UseDualStack": true
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      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": true,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
      }
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": true,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
      "error": "DualStack is enabled but this partition does not support DualStack"
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": false,
      "UseDualStack": true
    }
  },
  {
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"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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"params": {

"Region": "us-isob-east-1",
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
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}
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"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}

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              "expect": {
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                  "url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
                }
              },
              "params": {
                "Region": "us-isob-east-1",

        "UseFIPS": false,
                "UseDualStack": false
              }
            },
            {
              "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://example.com"
                }
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",

          "expect": {
                "endpoint": {
                  "url": "https://example.com"
                }
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              "params": {
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "For custom endpoint with fips enabled and dualstack disabled",
              "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
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```
                },
                "params": {
                    "Region": "us-east-1",
                    "UseFIPS": true,
                    "UseDualStack": false,

        "Endpoint": "https://example.com"
                }
            },
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                "documentation": "For custom endpoint with fips disabled and dualstack enabled",
                "expect": {
                    "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
                },
                "params": {
                    "Region": "us-east-1",
                    "UseFIPS": false,
                    "UseDualStack": true,
                    "Endpoint": "https://example.com"
                }
            },
            {
                "documentation": "Missing region",
                "expect": {
                    "error": "Invalid Configuration: Missing Region"
                }

      }
          ],
          "version": "1.0"
        }
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "name": "Enabled",
                "value": "Enabled",
                "documentation": "Enabled LinuxSubscriptionsDiscovery"
            },
            {
                "name": "Disabled",
                "value": "Disabled",
                "documentation": "Disabled LinuxSubscriptionsDiscovery"
            }
        ]
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        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
        "type": "structure",
        "members": {
            "SourceRegions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                 "traits": {
                    "smithy.api#documentation": "<p>The Regions in which to discover data for Linux
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "OrganizationIntegration": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
                "traits": {
                    "smithy.api#documentation": "<p>Details if you have enabled resource discovery across your
accounts in Organizations.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Lists the settings defined for discovering Linux subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
        "type":
 "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the running Amazon EC2 instances that were discovered with
```

commercial Linux\n subscriptions. ",
"smithy.api#http": {

"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptionInstances"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Instances"
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n match, or don't match a certain Amazon Machine Image (AMI) ID. \n The valid names for this filter are: \n \n \n \n <code>AmiID</code>\n \n \n \n \n <code>InstanceID</code>\n \n \n \n \n <code>AccountID</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Region</code>\n \n \n \n \n <code>UsageOperation</code>\n \n \n \n \n <code>ProductCode</code>\n \n \n \n \n <code>InstanceType</code>\n \n \n \n The valid Operators for this filter are: \n \n \n \n <code>contains</code>\n \n \n \n \n <code>equals</code>\n \n \n \n \n <code>Notequal</code>\n \n \n "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "

}
},
"NextToken": {
"target": "smithy.api#String",

"traits": {
"smithy.api#documentation": " Token for the next set of results. ",
"smithy.api#length": {
"min": 1,
"max": 16384
}
}
}
},
"traits": {
"smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
"type": "structure",
"members": {
"Instances": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
"traits": {
"smithy.api#documentation": " An array that contains instance objects. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions that have been discovered. If you have linked your\n organization, the returned results will include data aggregated across your accounts in\n Organizations. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptions"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Subscriptions"
}

}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>Subscription</code> with an optional operator to see subscriptions that match,\n partially match, or don't match a certain subscription's name. \n The valid names for this filter are: \n \n \n \n <code>Subscription</code>\n \n \n \n The valid Operators for this filter are: \n \n \n \n <code>contains</code>\n \n \n \n \n <code>equals</code>\n \n \n \n \n <code>Notequal</code>\n \n \n "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. ",
"smithy.api#length": {

"min": 1,
"max": 16384
}
}
}
},
"traits": {
"smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
"type": "structure",
"members": {
"Subscriptions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
"traits": {
"smithy.api#documentation": " An array that contains subscription objects. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "EQUAL",
"value": "Equal",
"documentation": "Equal operator"
},
{
"name": "NOT_EQUAL",
"value": "NotEqual",
"documentation": "Not equal operator"
},
{
"name": "CONTAINS",

```
                "value": "Contains",
                "documentation": "Contains operator"
            }
        ],
        "smithy.api#length": {
            "min": 1,
            "max": 20
        }
    }
},

"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "name": "Enabled",
                "value": "Enabled",
                "documentation": "Enabled OrganizationIntegration"
            },
            {
                "name": "Disabled",
                "value": "Disabled",
                "documentation": "Disabled OrganizationIntegration"
            }
        ]
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
    "type": "list",
    "member": {
        "target": "smithy.api#String"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [

{
                "name": "InProgress",
                "value": "InProgress",
                "documentation": "InProgress status"
            },
            {
                "name": "Completed",
                "value": "Completed",
                "documentation": "Completed status"
```

```
            },
            {
                "name": "Successful",
                "value": "Successful",
                "documentation": "Successful status"
            },
            {
                "name": "Failed",
                "value": "Failed",
                "documentation": "Failed status"
            }
        ]
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
    "type": "list",
    "member": {
        "target": "smithy.api#String",
        "traits":
{
            "smithy.api#length": {
                "min": 1,
                "max": 100
            }
        }
    },
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 100
        },
        "smithy.api#uniqueItems": {}
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
    "type": "map",
    "key": {
        "target": "smithy.api#String"
    },
    "value": {
        "target": "smithy.api#String"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "smithy.api#String",
```

"traits": {
"smithy.api#documentation": " The name of the subscription. "

}
},
"Type": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own\n Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the\n Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS. "
}
},
"InstanceCount": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
"traits": {
"smithy.api#documentation": " The total amount of running instances using this subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " An object which details a discovered Linux subscription. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request was denied due to request throttling. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"

```
        },

    "output": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates the service settings for Linux subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/UpdateServiceSettings"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest":
{
        "type": "structure",
        "members": {
            "LinuxSubscriptionsDiscovery": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
                "traits": {
                    "smithy.api#documentation": "<p>Describes if the discovery of Linux subscriptions is enabled.</p>",
                    "smithy.api#required": {}
                }
            },
            "LinuxSubscriptionsDiscoverySettings": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
                "traits": {
                    "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The
settings include if Organizations\n      integration has been enabled, and which Regions data will be aggregated
from.</p>",

  "smithy.api#required": {}
                }
            },
            "AllowUpdate": {
```

"target": "smithy.api#Boolean",
"traits": {
"smithy.api#documentation": " Describes if updates are allowed to the service settings for Linux subscriptions. If you\n allow updates, you can aggregate Linux subscription data in more than one home Region. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},

"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation":
" A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays the aggregated data for Linux\n subscriptions. "
}
}

```
            }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
            "type": "structure",
            "members": {
                "message": {
                    "target": "smithy.api#String"
                }
            },
            "traits": {
                "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
                "smithy.api#error": "client"
            }
        }
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - Beneficiary
 //   - ProductSKU
 //   - Fingerprint
 //
   - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
```

```
if
err := addProtocolFinalizerMiddlewares(stack, options, "ListLicenses"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
```

```
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
     ServiceID,
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 //
 This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
```

```
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack,
options, "DisassociateLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
```

```
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
```

```
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource
 Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
```

```
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil
{
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier
 that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
```

```
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
```

```
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
if err != nil {
 return
err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return
err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
```

```
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide
 to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement
```

```
 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity
 *types.DatetimeRange

 // Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string
```

```
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
  return fmt.Errorf("add
 protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName:
 "CreateLicense",
 }
```

```
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {
```

```
 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return
 err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack);
 err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
```

```
  OperationName: "GetLicense",
 }
}
```

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```
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package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
```

```
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
   - ProductSKU
 //   - Status
 //   - Fingerprint
 //   - IssuerName
 //   - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
```

```
 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
 middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
```

```
err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region
string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region:       region,
 ServiceID:     ServiceID,
 OperationName: "ListReceivedLicenses",
}
}
```

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```
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  "smithy": "2.0",
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      "members": {
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      "traits": {
        "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
        "smithy.api#error": "client"
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          }
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      "traits": {
        "smithy.api#documentation":
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},
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"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
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"traits": {
"smithy.api#documentation": " Associates the user to an EC2 instance to utilize user-based subscriptions. \n <note>\n Your estimated bill for charges on the number of users and related costs will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more information, see Viewing your\n monthly charges in the Amazon Web Services Billing User Guide. \n </note>",
"smithy.api#http": {
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"smithy.api#idempotent": {}
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"Username": {
"target": "smithy.api#String",

"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
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"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the
EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
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"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
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"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
"type": "integer"
},
"com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"

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            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request couldn't be completed because it conflicted with the current
state of the\n      resource.</p>",
            "smithy.api#error": "server"
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    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider":
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        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
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            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deregisters the identity provider from providing user-based
subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/DeregisterIdentityProvider"
            },
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            "smithy.api#idempotent": {}
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                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                 "traits": {
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                    "smithy.api#required": {}
                }
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            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
        "type": "structure",
        "members": {
            "IdentityProviderSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
                "traits": {
                    "smithy.api#documentation":
"<p>Metadata that describes the results of an identity provider operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
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        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
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"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
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"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
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"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
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"traits": {
"smithy.api#documentation": " Disassociates the user from an EC2 instance providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/DisassociateUser"
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"smithy.api#idempotent": {}
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"com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
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"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
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"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},

"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation":
" An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
}
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"com.amazonaws.licensemanagerusersubscriptions#Filter": {
"type": "structure",
"members": {
"Attribute": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of an attribute to use as a filter. "
}
},
"Operation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of search (For example, eq, geq, leq) "
}
},
"Value": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Value of the filter. "

```
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A filter name and value pair that is used
 to return more specific results from a describe\n      operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n      attributes, or IDs.</p>"
        }
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    "com.amazonaws.licensemanagerusersubscriptions#FilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
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    "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
        "type": "union",
        "members": {
            "ActiveDirectoryIdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that details an Active Directory identity provider.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
 "<p>Details about an identity provider.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
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            "Settings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
                "traits": {
                    "smithy.api#documentation": "<p>An object that details the registered identity providers product
related configuration\n      settings such as the subnets to provision VPC endpoints.</p>",
                    "smithy.api#required":
 {}
                }
```

```
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status of an identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "FailureMessage": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The failure message associated with an identity provider.</p>"
                }
            }
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        "traits": {
            "smithy.api#documentation":
 "<p>Describes an identity provider.</p>"
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    "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
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                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
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of an EC2 instance resource. ",
"smithy.api#required": {}
}
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"Products": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
"traits": {
"smithy.api#documentation": " A list of provided user-based subscription products. ",
"smithy.api#required": {}
}
},
"LastStatusCheckDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date of the last status check. "
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for an EC2 instance. "
}

}
},
"traits": {
"smithy.api#documentation": " Describes an EC2 instance providing user-based subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
"type": "list",
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}
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"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
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"members": {
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"smithy.api#required": {}
}
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"InstanceId": {
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"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
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"smithy.api#documentation": " The status of a user associated with an EC2 instance. ",
"smithy.api#required": {}
}
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"StatusMessage": {
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"traits": {
"smithy.api#documentation": " The status message for users of an EC2 instance. "
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"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"AssociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was associated with an EC2 instance. "
}
},
"DisassociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was disassociated from an EC2 instance. "
}
}

},
"traits": {
"smithy.api#documentation": " Describes users of an EC2 instance providing user-based

subscriptions. "
}
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"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
}
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"com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
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"traits": {
"smithy.api#documentation": " An exception occurred with the service. ",
"smithy.api#error": "server"
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"com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
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"version": "2018-05-10",
"operations": [
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"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
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"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
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"target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
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"target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
},
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"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
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{
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
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{
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
}
],
"traits": {
"aws.api#service": {
"sdkId": "License Manager User Subscriptions",
"arnNamespace": "license-manager-user-subscriptions",
"cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
},
"aws.auth#sigv4": {
"name": "license-manager-user-subscriptions"
},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",
"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"

]
},

"smithy.api#documentation": " With License Manager, you can create user-based subscriptions to utilize licensed software with\n a per user subscription fee on Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager User Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}

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"rules": [
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"argv": [
{
"ref": "Endpoint"
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]
}
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                "argv": [
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                    "ref": "UseFIPS"
                  },

                true
                ]
              }
            ],
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            "type": "error"
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          {
            "conditions": [
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                "argv": [
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                    "ref": "UseDualStack"
                  },
                  true
                ]
              }
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"error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
            "type": "error"
          },
          {
            "conditions": [],
            "endpoint": {
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                "ref": "Endpoint"
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              "properties": {},
              "headers": {}
            },
            "type": "endpoint"
          }
        ]
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"argv": [

{
"ref": "Region"
}
]
}
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"argv": [
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}
],
"assign": "PartitionResult"
}
],
"type": "tree",

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"argv": [
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"ref": "UseFIPS"
},
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"argv": [
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"ref": "UseDualStack"

},
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```
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 "argv": [
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                                            "supportsFIPS"
                                        ]
                                    }
                                ]
                            },
                            {
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                                "argv": [
                                    true,
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                "fn": "getAttr",
                                        "argv": [
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                                            },
                                            "supportsDualStack"
                                        ]
                                    }
                                ]
                            }
                        ],
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                            {

                "conditions": [],
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fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                    "properties": {},
```

```
                "headers": {}
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            "type": "endpoint"
        }
    ]
  },
  {
    "conditions": [],
    "error": "FIPS and DualStack are enabled, but this partition does not support one or both",
     "type": "error"
  }
]
},
{
  "conditions": [
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      "fn": "booleanEquals",
      "argv": [
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          "ref": "UseFIPS"
        },
        true
      ]
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"rules": [
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      "conditions": [
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          "argv": [
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            {
              "fn": "getAttr",
              "argv": [
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                  "ref": "PartitionResult"
                },
                "supportsFIPS"

            ]
            }
          ]
        }
      ],
```

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fips.{Region}.{PartitionResult#dnsSuffix}",
                      "properties": {},
                      "headers": {}

        },
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                ]
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              {
                "conditions": [],
                "error": "FIPS is enabled but this partition does not support FIPS",
                "type": "error"
              }
            ]
          },
          {
            "conditions": [
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                "fn": "booleanEquals",
                "argv": [
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                      {

                        "fn": "getAttr",
                          "argv": [
                            {
                              "ref": "PartitionResult"
```

```
                                        },
                                        "supportsDualStack"
                                    ]
                                }
                            ]
                        }
                    ],
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                    "rules": [
                        {

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subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                "properties": {},
                                "headers": {}
                            },
                            "type": "endpoint"
                        }
                    ]
                },
                {
                    "conditions": [],
                    "error": "DualStack is enabled but this partition does
 not support DualStack",
                    "type": "error"
                }
            ]
        },
        {
            "conditions": [],
            "endpoint": {
                "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                "properties": {},
                "headers": {}
            },
            "type": "endpoint"
        }
    ]
}
]
},
{
    "conditions":
 [],
    "error": "Invalid Configuration: Missing Region",
```

```
                "type": "error"
            }
        ]
    },
    "smithy.rules#endpointTests": {
        "testCases": [
            {
                "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
                "expect": {
                    "endpoint": {
                        "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
                    }
                },
                "params": {
                    "Region": "us-east-1",
                    "UseFIPS": true,
                    "UseDualStack": true
                }
            },
            {
                "documentation":
"For region us-east-1 with FIPS enabled and DualStack disabled",
                "expect": {
                    "endpoint": {
                        "url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
                    }
                },
                "params": {
                    "Region": "us-east-1",
                    "UseFIPS": true,
                    "UseDualStack": false
                }
            },
            {
                "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
                "expect": {
                    "endpoint": {
                        "url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
                    }
                },

            "params": {
                    "Region": "us-east-1",
                    "UseFIPS": false,
                    "UseDualStack": true
                }
            },
            {
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"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with
FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},

"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},

"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1
with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{

"documentation": "For region us-gov-east-1
with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect":
{
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",

"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack":
true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but
this partition does not support one or both"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},

"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}

},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{

"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true,
"Endpoint": "https://example.com"
}
},
{
"documentation": "Missing region",
"expect": {
"error": "Invalid Configuration: Missing Region"
}
}
],
"version": "1.0"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the identity providers for user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/ListIdentityProviders"
},
"smithy.api#paginated":
{
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "IdentityProviderSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
"type": "structure",

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        "members": {
          "MaxResults": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
{
        "type": "structure",
        "members": {
          "IdentityProviderSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
              "smithy.api#required": {}
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
         },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/instance/ListInstances"
            },
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
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"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
"type": "structure",
"members": {
"InstanceSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list instances operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{

"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the user-based subscription products available from an identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/ListProductSubscriptions"
},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "ProductUserSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
"type": "structure",
"members": {
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}

```
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {

  "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match
one or\n      more sets of key-value pairs that you specify.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
        "type": "structure",
        "members": {
            "ProductUserSummaries": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the list product subscriptions
operation.</p>"
                }
            },

     "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target":
 "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists user associations for an identity provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListUserAssociations"
            },
            "smithy.api#paginated":
{
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
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"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
"type": "structure",
"members": {
"InstanceUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list user association operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
"type": "structure",

"members": {

"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider of the user. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}

},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a product for a user. ",
"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for a product for a user. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"SubscriptionStartDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The

start date of a subscription. "
}
},
"SubscriptionEndDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The end date of a subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " The summary of the user-based subscription products for a user. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{

"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Registers an identity provider for user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/RegisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings such as the\n subnets to provision VPC endpoints. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the results of an identity provider

operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The resource couldn't be found. ",
"smithy.api#error": "client",
"smithy.api#httpError": 404
}
},
"com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
"type": "string",

"traits": {
"smithy.api#length": {
"min": 5,
"max": 200
},
"smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request failed because a service quota is exceeded. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Settings": {
"type": "structure",
"members": {
"Subnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {

"smithy.api#documentation":
" The subnets defined for the registered identity provider. ",
"smithy.api#length": {
"min": 1
},
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID that allows inbound TCP port 1688
communication between resources in\n your VPC and the VPC endpoint for activation servers. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings
such as the\n subnets to provision VPC endpoints, and the security group ID that
is associated with the VPC\n endpoints. The security group should permit inbound TCP port 1688
communication from resources\n in the VPC. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},

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            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Starts a product subscription for a user with the specified identity
provider.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related costs
will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status)
in Amazon Web Services Billing.
 For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n        monthly
charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/StartProductSubscription"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                 "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
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"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
"type": "structure",
"members": {
"ProductUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the start product subscription operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{

"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Stops a product subscription for a user with the specified identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/StopProductSubscription"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required":
{}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
"type": "structure",

"members": {
"ProductUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
"traits": {
"smithy.api#documentation":
" Metadata that describes the start product subscription operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StringList": {
"type": "list",
"member": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Subnet": {
"type": "string",
"traits": {
"smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Subnets": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
"type": "structure",
"members": {
"message": {

"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request was denied because of request throttling. Retry the
request. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
},

"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
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"traits": {
"smithy.api#documentation": " Updates additional product configuration settings for the registered identity\n provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/UpdateIdentityProviderSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"UpdateSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related

configuration settings. You can\n update any combination of settings in a single operation such as the: \n \n \n Subnets which you want to add to provision VPC endpoints. \n \n \n Subnets which you want to remove the VPC endpoints from. \n \n \n Security group ID which permits traffic to the VPC endpoints. \n \n ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#required": {}
}
}
}
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"com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
"type": "structure",
"members": {
"AddSubnets": {

"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets in which License Manager will create a VPC endpoint for products that\n require connectivity to activation servers. ",
"smithy.api#required": {}
}
},
"RemoveSubnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets to remove. ",
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID that allows inbound TCP port 1688 communication between resources in\n your VPC and the VPC endpoints for activation servers. "
}
}
},

"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings such as\n the subnets to provision VPC endpoints. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " A parameter is not valid. ",
"smithy.api#error": "client"
}
}
}
}
{
"smithy": "2.0",
"metadata": {
"suppressions": [
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"id": "HttpMethodSemantics",
"namespace": "*"
},
{
"id": "HttpResponseCodeSemantics",
"namespace": "*"
},
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"id": "PaginatedTrait",
"namespace": "*"
},
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"id": "HttpHeaderTrait",
"namespace": "*"
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"id": "HttpUriConflict",
"namespace": "*"
},
{
"id": "Service",
"namespace": "*"
}
]

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},
"shapes": {
  "com.amazonaws.licensemanager#AWSLicenseManager": {
    "type": "service",
    "version": "2018-08-01",
    "operations": [
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        "target": "com.amazonaws.licensemanager#AcceptGrant"
      },

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        "target": "com.amazonaws.licensemanager#CheckInLicense"
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      {
        "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
      },
      {
        "target": "com.amazonaws.licensemanager#CheckoutLicense"
      },
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        "target": "com.amazonaws.licensemanager#CreateGrant"
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        "target": "com.amazonaws.licensemanager#CreateGrantVersion"
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        "target": "com.amazonaws.licensemanager#CreateLicense"
      },
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        "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
      },
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        "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
      },
      {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
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      {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersion"
      },
      {
        "target": "com.amazonaws.licensemanager#CreateToken"
      },
      {
        "target": "com.amazonaws.licensemanager#DeleteGrant"
      },
      {
        "target": "com.amazonaws.licensemanager#DeleteLicense"
```

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      "target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
    },
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      "target": "com.amazonaws.licensemanager#DeleteToken"
    },
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      "target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

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      "target": "com.amazonaws.licensemanager#GetAccessToken"
    },
    {
      "target": "com.amazonaws.licensemanager#GetGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseUsage"
    },
    {
      "target": "com.amazonaws.licensemanager#GetServiceSettings"
    },
    {
      "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
    },
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      "target": "com.amazonaws.licensemanager#ListDistributedGrants"
    },
    {
      "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
    },
    {
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"target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
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"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
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"target": "com.amazonaws.licensemanager#ListLicenses"
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"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
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"target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
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"target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
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"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization"
},
{
"target": "com.amazonaws.licensemanager#ListResourceInventory"
},
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"target": "com.amazonaws.licensemanager#ListTagsForResource"
},
{
"target": "com.amazonaws.licensemanager#ListTokens"
},
{
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#RejectGrant"
},
{
"target": "com.amazonaws.licensemanager#TagResource"
},

{
"target": "com.amazonaws.licensemanager#UntagResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateServiceSettings"
}
],
"traits": {
"aws.api#service": {
"sdkId": "License Manager",
"arnNamespace": "license-manager",
"cloudFormationName": "LicenseManager",
"cloudTrailEventSource": "licensemanager.amazonaws.com",
"endpointPrefix": "license-manager"
},
"aws.auth#sigv4": {
"name": "license-manager"
},
"aws.protocols#awsJson1_1": {},
"smithy.api#documentation": " License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers. ",
"smithy.api#title": "AWS License Manager",
"smithy.api#xmlNamespace": {
"uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
},
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not

support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send
this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}
},
"rules": [
{
"conditions": [
{
"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
]

}
],
"type": "tree",
"rules": [
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
},
true
]
}
],
"error": "Invalid Configuration: FIPS and custom endpoint are not supported",
"type": "error"

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            },
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"conditions": [
                {
                  "fn": "booleanEquals",
                  "argv": [
                    {
                      "ref": "UseDualStack"
                    },
                    true
                  ]
                }
              ],
              "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
              "type": "error"
            },
            {
              "conditions": [],
              "endpoint": {
                "url": {
                  "ref": "Endpoint"
                 },
                "properties": {},
                "headers": {}
              },
              "type": "endpoint"
            }
          ]
        },
        {
          "conditions": [
            {
              "fn": "isSet",
              "argv": [
                {
                  "ref": "Region"
                }
              ]
            }
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          "type": "tree",
          "rules": [
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              "conditions": [
                {
                  "fn": "aws.partition",
                  "argv": [
```

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                {
                    "ref": "Region"
                }
            ],
            "assign": "PartitionResult"
        }
    ],
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    "rules": [
        {
            "conditions": [
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                    "fn": "booleanEquals",
                    "argv": [
                        {
                            "ref":
"UseFIPS"
                        },
                        true
                    ]
                },
                {
                    "fn": "booleanEquals",
                    "argv": [
                        {
                            "ref": "UseDualStack"
                        },
                        true
                    ]
                }
            ],
            "type": "tree",
            "rules": [
                {
                    "conditions": [
                        {
                            "fn": "booleanEquals",
                            "argv": [
                                true,
                                {
                                    "fn": "getAttr",
                                    "argv": [
                                        {
                                            "ref": "PartitionResult"
                                        },
                                        "supportsFIPS"
                                    ]
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                    }
                        ]
                    },
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
                            {
                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },

"supportsDualStack"
                                ]
                            }
                        ]
                    }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [],
                        "endpoint": {
                            "url": "https://license-manager-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                            "properties": {},
                            "headers": {}

                    },
                        "type": "endpoint"
                    }
                ]
            },
            {
                "conditions": [],
                "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
                "type": "error"
            }
        ]
    },
    {
        "conditions": [
            {
                "fn": "booleanEquals",
```

```
                "argv": [
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                        "ref": "UseFIPS"
                    },
                    true
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,

{
                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsFIPS"
                                ]
                            }
                        ]
                    }
                ],
                "type": "tree",
                "rules": [

{
                        "conditions": [],
                        "endpoint": {
                            "url": "https://license-manager-fips.{Region}.{PartitionResult#dnsSuffix}",
                            "properties": {},
                            "headers": {}
                        },
                        "type": "endpoint"
                    }
                ]
            },
            {
                "conditions": [],
                "error": "FIPS is enabled but this
partition does not support FIPS",
                "type": "error"
```

```
                    }
                ]
            },
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseDualStack"
                            },
                            true
                        ]
                    }
                ],
                "type": "tree",
                 "rules": [
                    {
                        "conditions": [
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    true,
                                    {
                                        "fn": "getAttr",
                                        "argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },

"supportsDualStack"
                                        ]
                                    }
                                ]
                            }
                        ],
                        "type": "tree",
                        "rules": [
                            {
                                "conditions": [],
                                "endpoint": {
                                    "url": "https://license-
manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                    "properties": {},
                                    "headers": {}

                },
                            "type": "endpoint"
```

```
                    }
                ]
            },
            {
                "conditions": [],
                "error": "DualStack is enabled but this partition does not support DualStack",
                "type": "error"
            }
        ]
    },
    {
        "conditions": [],
        "endpoint": {
            "url": "https://license-manager.{Region}.{PartitionResult#dnsSuffix}",
            "properties": {},
            "headers": {}
        },
        "type": "endpoint"
    }
  ]
}
]
},
{
"conditions": [],
"error": "Invalid Configuration: Missing Region",
"type": "error"
}
]
},
"smithy.rules#endpointTests": {
"testCases": [
{
"documentation": "For region af-south-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint":
{
"url": "https://license-manager.af-south-1.amazonaws.com"
}
},
"params": {
"Region": "af-south-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
```

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    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-east-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "ap-east-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-northeast-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "ap-northeast-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-northeast-2.amazonaws.com"
      }
    },
    "params": {
      "Region": "ap-northeast-2",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-northeast-3.amazonaws.com"
      }
    },
    "params": {
      "Region": "ap-northeast-3",
      "UseFIPS": false,
      "UseDualStack": false
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            }

        },
            {
                "documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
                "expect": {
                    "endpoint": {
                        "url": "https://license-manager.ap-south-1.amazonaws.com"
                    }
                },
                "params": {
                    "Region": "ap-south-1",
                    "UseFIPS": false,
                    "UseDualStack": false
                }
            },
            {
                "documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
                "expect": {
                    "endpoint": {
                        "url": "https://license-manager.ap-southeast-1.amazonaws.com"

        }
                },
                "params": {
                    "Region": "ap-southeast-1",
                    "UseFIPS": false,
                    "UseDualStack": false
                }
            },
            {
                "documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
                "expect": {
                    "endpoint": {
                        "url": "https://license-manager.ap-southeast-2.amazonaws.com"
                    }
                },
                "params": {
                    "Region": "ap-southeast-2",
                    "UseFIPS": false,
                    "UseDualStack": false
                }
            },
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        "documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
                "expect": {
                    "endpoint": {
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"url": "https://license-manager.ap-southeast-3.amazonaws.com"
}
},
"params": {
"Region": "ap-southeast-3",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region ca-central-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ca-central-1.amazonaws.com"
}
},

"params": {
"Region": "ca-central-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-central-1.amazonaws.com"
}
},
"params": {
"Region": "eu-central-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region eu-north-1 with FIPS
disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-north-1.amazonaws.com"
}
},
"params": {
"Region": "eu-north-1",
"UseFIPS": false,
"UseDualStack": false

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            }
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        {
            "documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
            "expect": {
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                    "url": "https://license-manager.eu-south-1.amazonaws.com"
                }
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            "params": {
                "Region":
"eu-south-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
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            "documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.eu-west-1.amazonaws.com"
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            },
            "params": {
                "Region": "eu-west-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
            "expect": {

            "endpoint": {
                    "url": "https://license-manager.eu-west-2.amazonaws.com"
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            },
            "params": {
                "Region": "eu-west-2",
                "UseFIPS": false,
                "UseDualStack": false
            }
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            "documentation": "For region eu-west-3 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.eu-west-3.amazonaws.com"
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            }
        },
        "params": {
            "Region": "eu-west-3",
            "UseFIPS": false,

"UseDualStack": false
        }
    },
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        "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.me-south-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "me-south-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.sa-east-1.amazonaws.com"
             }
        },
        "params": {
            "Region": "sa-east-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
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    {
        "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.us-east-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
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              "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
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                }
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false
              }
            },
            {
              "documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager.us-east-2.amazonaws.com"
                }

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              "params": {
                "Region": "us-east-2",
                "UseFIPS": false,
                "UseDualStack": false
              }
            },
            {
              "documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager-fips.us-east-2.amazonaws.com"
                }
              },
              "params": {
                "Region": "us-east-2",
                "UseFIPS": true,
                "UseDualStack": false
              }
            },
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              "documentation": "For region
us-west-1 with FIPS disabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager.us-west-1.amazonaws.com"
                }
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            },
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              "UseFIPS": false,
              "UseDualStack": false
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            "params": {

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              "UseDualStack": false
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              "Region": "us-west-2",
              "UseFIPS": false,
              "UseDualStack": false
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            "params": {
              "Region": "us-west-2",
              "UseFIPS": true,
              "UseDualStack": false
            }
          },
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}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,

"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
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"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url":
"https://license-manager.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
}
},

"params": {
"Region": "cn-northwest-1",
"UseFIPS": false,
"UseDualStack": false

}
},
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"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
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"url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
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"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
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"UseDualStack": false
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}
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"params": {
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"UseFIPS": false,
"UseDualStack": true
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{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false
}
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"documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-gov-west-1.amazonaws.com"
}
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"params": {
"Region": "us-gov-west-1",
"UseFIPS": false,
"UseDualStack": false
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"expect": {
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"params": {

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"UseDualStack": false
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"expect": {
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}
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"params": {
"Region": "us-gov-east-1",
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"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
"expect": {
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"url": "https://license-manager.us-gov-east-1.api.aws"
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"params": {
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"UseFIPS": false,
"UseDualStack": true
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"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
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"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
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"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",

"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
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"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
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}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
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"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled
but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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"UseFIPS": true,
"UseDualStack": true
}
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
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}
},

"params": {
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"UseDualStack": false
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"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
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"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

"expect": {
"endpoint": {
"url": "https://example.com"
}
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"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,

"Endpoint": "https://example.com"
}
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{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,

"UseDualStack": false,
"Endpoint": "https://example.com"
}
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"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true,
"Endpoint": "https://example.com"
}
},
{
"documentation": "Missing region",
"expect": {
"error": "Invalid Configuration: Missing Region"
}

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                }
            ],
            "version": "1.0"
        }
    }
  },
  "com.amazonaws.licensemanager#AcceptGrant": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#AcceptGrantRequest"

},
    "output": {
      "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      },
      {
        "target": "com.amazonaws.licensemanager#ValidationException"

  }
    ],
    "traits": {
      "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
    }
  },
  "com.amazonaws.licensemanager#AcceptGrantRequest": {
    "type": "structure",
    "members": {
      "GrantArn": {
        "target": "com.amazonaws.licensemanager#Arn",
```

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            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
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"com.amazonaws.licensemanager#AcceptGrantResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant
ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#AccessDeniedException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
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"code": "ServiceAccessDenied",
"httpResponseCode": 401
},
"smithy.api#documentation": " Access to resource denied. ",
"smithy.api#error": "client",
"smithy.api#httpError": 401
}
},
"com.amazonaws.licensemanager#ActivationOverrideBehavior": {
"type": "enum",
"members": {
"DISTRIBUTED_GRANTS_ONLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
}
},
"ALL_GRANTS_PERMITTED_BY_ISSUER": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
}
}
}
},
"com.amazonaws.licensemanager#AllowedOperation": {

"type": "enum",
"members": {
"CREATE_GRANT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CreateGrant"
}
},
"CHECKOUT_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckoutLicense"
}
},
"CHECKOUT_BORROW_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckoutBorrowLicense"
}
},
"CHECK_IN_LICENSE": {

"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckInLicense"
}
},
"EXTEND_CONSUMPTION_LICENSE":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ExtendConsumptionLicense"
}
},
"LIST_PURCHASED_LICENSES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ListPurchasedLicenses"
}
},
"CREATE_TOKEN": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CreateToken"
}
}
}
},
"com.amazonaws.licensemanager#AllowedOperationList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#AllowedOperation"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max":
7
}
}
},
"com.amazonaws.licensemanager#Arn": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"

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        }
    },
    "com.amazonaws.licensemanager#ArnList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Arn"
        }
    },
    "com.amazonaws.licensemanager#AuthorizationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError":
 {
                "code": "AuthorizationFailure",
                "httpResponseCode": 403
            },
            "smithy.api#documentation": "<p>The Amazon Web Services user account does not have permission to
perform the action. Check the IAM\n        policy associated with this account.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 403
        }
    },
    "com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
        "type": "structure",
        "members": {
            "LastRunTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes automated discovery.</p>"
        }
    },

  "com.amazonaws.licensemanager#Boolean": {
        "type": "boolean",
        "traits": {
            "smithy.api#default": false
        }
    },
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    "com.amazonaws.licensemanager#BorrowConfiguration": {
        "type": "structure",
        "members": {
            "AllowEarlyCheckIn": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether early check-ins are allowed.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxTimeToLiveInMinutes": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
                    "smithy.api#required": {}
                }
            }

},
        "traits": {
            "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#BoxBoolean": {
        "type": "boolean"
    },
    "com.amazonaws.licensemanager#BoxInteger": {
        "type": "integer"
    },
    "com.amazonaws.licensemanager#BoxLong": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#CheckInLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
        },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseRequest":
 {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
```

"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicense":
{
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{
"target":
"com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks out the specified license for offline use. "
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
"type": "structure",
"members":
{
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The license must use the borrow consumption configuration. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. Partial checkouts are not supported. ",
"smithy.api#required": {}
}
},
"DigitalSignatureMethod": {
"target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
"traits": {
"smithy.api#documentation": " Digital signature method. The possible value is JSON Web Signature (JWS) algorithm PS384.\n For more information, see RFC 7518 Digital Signature with RSASSA-PSS. ",
"smithy.api#required": {}
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
},
"ClientToken": {

"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation":
" Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed":
{
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " Allowed license entitlements. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"SignedToken": {
"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",

"traits": {
"smithy.api#documentation": " Date and time at which the license checkout is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"

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            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license.</p>\n        <note>\n            <p>If the
account that created the license is the same that is performing the check out, you must\n            specify the account
as the beneficiary.</p>\n        </note>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutLicenseRequest": {
        "type": "structure",
        "members": {
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product
 SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "CheckoutType": {
                "target": "com.amazonaws.licensemanager#CheckoutType",
                "traits": {
                    "smithy.api#documentation": "<p>Checkout type.</p>",
                    "smithy.api#required": {}
                }
            },
            "KeyFingerprint": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Key fingerprint identifying the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
```

"traits": {
"smithy.api#documentation": " License entitlements. ",

"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
"type": "structure",
"members": {
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed": {

"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " Allowed license entitlements. "
}
},
"SignedToken": {
"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and
time at which the license checkout expires. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the checkout license. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutType": {
"type": "enum",
"members": {
"PROVISIONAL": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PROVISIONAL"

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                }
            },
            "PERPETUAL": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PERPETUAL"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ClientRequestToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max": 36
            }
        }
    },
    "com.amazonaws.licensemanager#ClientToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 2048
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
    "com.amazonaws.licensemanager#ConflictException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ConflictException",
                "httpResponseCode":
409
            },
            "smithy.api#documentation": "<p>There was a conflict processing the request. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 409
        }
    },
```

```
    "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
      "type": "structure",
      "members": {
        "ResourceType": {
          "target": "com.amazonaws.licensemanager#ResourceType",
          "traits": {
            "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
          }
        },
        "ConsumedLicenses": {
          "target": "com.amazonaws.licensemanager#BoxLong",
          "traits": {
            "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
          }
        }
      },

"traits": {
        "smithy.api#documentation": "<p>Details about license consumption.</p>"
      }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
      }
    },
    "com.amazonaws.licensemanager#ConsumptionConfiguration": {
      "type": "structure",
      "members": {
        "RenewType": {
          "target": "com.amazonaws.licensemanager#RenewType",
          "traits": {
            "smithy.api#documentation": "<p>Renewal frequency.</p>"
          }
        },
        "ProvisionalConfiguration": {
          "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
          "traits": {
            "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
           }
        },
        "BorrowConfiguration": {
          "target": "com.amazonaws.licensemanager#BorrowConfiguration",
          "traits": {
            "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
          }
        }
```

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        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of
license\n        entitlements with a specific Amazon Web Services account, an organization, or an\n
organizational unit (OU). For more
 information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantRequest": {
        "type": "structure",
        "members": {
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"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}

}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Principals": {
"target": "com.amazonaws.licensemanager#PrincipalArnList",
"traits": {
"smithy.api#documentation": " The grant principals. You can specify one of the following as an Amazon Resource Name\n (ARN): \n \n \n An Amazon Web Services account, which includes only the account specified. \n \n \n \n \n An organizational unit (OU), which includes all accounts in the OU. \n \n \n \n
\n An organization, which will include all accounts across your organization. \n \n ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. ",
"smithy.api#required": {}

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            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },

      "com.amazonaws.licensemanager#CreateGrantResponse": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Grant version.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CreateGrantVersion":
{
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
```

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a new version of the specified grant. For more information, see\n Granted licenses in License Manager in the License Manager User Guide. "
}
},
"com.amazonaws.licensemanager#CreateGrantVersionRequest": {
"type": "structure",
"members": {
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",

"smithy.api#required": {}
}
},
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. "
}

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        },
        "AllowedOperations": {
            "target": "com.amazonaws.licensemanager#AllowedOperationList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "StatusReason": {
            "target": "com.amazonaws.licensemanager#StatusReasonMessage",
            "traits": {
                "smithy.api#documentation": "<p>Grant status reason.</p>"
            }
        },
        "SourceVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Current version of the grant.</p>"
            }
        },
        "Options": {
            "target": "com.amazonaws.licensemanager#Options",
            "traits": {
                "smithy.api#documentation": "<p>The options specified for the grant.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
```

```
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>New version of the grant.</p>"
            }
        }
    },
    "traits":
{
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
         },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a license.</p>"
```

```
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license configuration.</p>\n        <p>A license configuration is an abstraction of a customer license agreement that can be\n        consumed and enforced by License Manager. Components include specifications for the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n        Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a \n        license must be associated with a host), and the number of licenses purchased and used.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>",
                    "smithy.api#required": {}
                }
```

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            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the license configuration.</p>"
                }
            },
            "LicenseCountingType": {
                "target": "com.amazonaws.licensemanager#LicenseCountingType",
                 "traits": {
                    "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
                }
            },
            "LicenseCountHardLimit": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether hard or soft license enforcement is used.
Exceeding a hard limit\n        blocks the launch of new instances.</p>"
                }
            },
            "LicenseRules": {
                "target":
 "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>License rules. The syntax is #name=value (for example,
#allowedTenancy=EC2-DedicatedHost). The available rules \n        vary by dimension, as follows.</p>\n
<ul>\n            <li>\n                <p>\n                    <code>Cores</code> dimension: <code>allowedTenancy</code> |\n
            <code>licenseAffinityToHost</code> |\n                <code>maximumCores</code> |
<code>minimumCores</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>Instances</code> dimension: <code>allowedTenancy</code> | \n                <code>maximumCores</code> |
<code>minimumCores</code> |\n                <code>maximumSockets</code> | <code>minimumSockets</code> |\n
            <code>maximumVcpus</code> | <code>minimumVcpus</code>\n                </p>\n            </li>\n
<li>\n
  <p>\n                    <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n
<code>licenseAffinityToHost</code> |\n                <code>maximumSockets</code> |
<code>minimumSockets</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n
<code>honorVcpuOptimization</code> | \n                <code>maximumVcpus</code> |
<code>minimumVcpus</code>\n                </p>\n            </li>\n        </ul>\n        <p>The unit for
<code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n        values for
<code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n
```

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<code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n
<code>True</code> and <code>False</code>.</p>"
                }
            },

  "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Tags to add to the license configuration.</p>"
                }
            },
            "DisassociateWhenNotFound": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
                }
            },
            "ProductInformationList": {
                "target": "com.amazonaws.licensemanager#ProductInformationList",
                "traits": {
                    "smithy.api#documentation": "<p>Product information.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse":
 {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
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        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {

                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting
from. \n\n        For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
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            }
          },
          "DestinationLicenseContext":
{
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
              "smithy.api#documentation": "<p>Information that identifies the license type you are converting to.
For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
        "type": "structure",
        "members": {
          "LicenseConversionTaskId": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

       "traits": {
              "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
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{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a report generator. "
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"ReportGeneratorName":
{
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types an be generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}

}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",

"traits": {
"smithy.api#documentation": " Defines the type of license configuration the report generator tracks. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the new report generator. "

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                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product
name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "Issuer": {
                "target": "com.amazonaws.licensemanager#Issuer",
                "traits": {
                    "smithy.api#documentation": "<p>License issuer.</p>",
                    "smithy.api#required": {}
                }
            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Home Region for the license.</p>",
                    "smithy.api#required": {}

  }
            },
            "Validity": {
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"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}

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},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        },
        "Version": {
             "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
         },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
```

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            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target":
"com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product name.</p>",
                    "smithy.api#required": {}
                }
            },
            "Issuer": {
                "target": "com.amazonaws.licensemanager#Issuer",
                "traits":
{
                    "smithy.api#documentation": "<p>License issuer.</p>",
                    "smithy.api#required": {}
```

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            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "Validity": {
            "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {
                "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
                "smithy.api#required": {}
            }
        },
        "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
                 "smithy.api#documentation": "<p>Information about the license.</p>"
            }
        },
        "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
            "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>",
                "smithy.api#required": {}
            }
        },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n         running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n         usage.</p>",
                "smithy.api#required": {}
            }
        },

  "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>",
                "smithy.api#required": {}
            }
        },
        "ClientToken": {
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"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New version of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
}
},
"traits": {
"smithy.api#output":
{}
}
},
"com.amazonaws.licensemanager#CreateToken": {
"type": "operation",

"input": {
"target": "com.amazonaws.licensemanager#CreateTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},

{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a long-lived token. \n A refresh token is a JWT token used to get an access token. With an access token,\n you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n call License Manager to manage the specified license. "
}
},
"com.amazonaws.licensemanager#CreateTokenRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits":
{
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n JWT token. ",

"smithy.api#required": {}
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n License Manager does not check whether the roles are in use. "
}
},
"ExpirationInDays": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Token expiration, in days, counted from token creation. The default is 365 days. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller to be included in the JWT token. The data is mapped\n to the amr claim of the JWT token. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Idempotency token, valid for 10 minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateTokenResponse": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Token ID. "
}
},
"TokenType": {
"target": "com.amazonaws.licensemanager#TokenType",

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            "traits": {
                "smithy.api#documentation": "<p>Token type.</p>"
            }
        },
        "Token": {
            "target": "com.amazonaws.licensemanager#TokenString",
            "traits": {
                "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#DateTime": {
    "type": "timestamp"
},
"com.amazonaws.licensemanager#DatetimeRange": {
    "type": "structure",
    "members": {
        "Begin": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Start of the time range.</p>",
                "smithy.api#required": {}
            }
        },
        "End": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>End of the time range.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
    }
},
"com.amazonaws.licensemanager#DeleteGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
    },
    "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes
the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the
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grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation":
" Grant version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

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            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
        },

    "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license configuration.</p>\n        <p>You cannot delete a license configuration that is in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
```

{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified report generator. \n This action deletes the report generator, which stops it from generating future reports.\n The action cannot be reversed. It has no effect on the previous reports from this generator. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to be deleted. ",
"smithy.api#required": {}
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}

```
    },
    "com.amazonaws.licensemanager#DeleteLicenseRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "SourceVersion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Current version of the license.</p>",
            "smithy.api#required":
{}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseResponse": {
      "type": "structure",
      "members": {
        "Status": {
          "target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
          "traits": {
            "smithy.api#documentation": "<p>License status.</p>"
          }
        },
        "DeletionDate": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
          "traits": {
            "smithy.api#documentation": "<p>Date when the license is deleted.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteToken": {
      "type": "operation",
       "input": {
        "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
```

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },

    {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
```

"com.amazonaws.licensemanager#DeleteTokenResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}

}
},
"com.amazonaws.licensemanager#DigitalSignatureMethod": {
"type": "enum",
"members": {
"JWT_PS384": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "JWT_PS384"
}
}
}
},
"com.amazonaws.licensemanager#Entitlement": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement resource. Use only
if the unit is None. "
}
},
"MaxCount": {
"target": "com.amazonaws.licensemanager#Long",
"traits": {
"smithy.api#documentation": " Maximum entitlement count. Use if the unit is not None. "
}
},
"Overage": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether overages are allowed. "
}
},

"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementUnit",
"traits": {
"smithy.api#documentation": " Entitlement unit. ",
"smithy.api#required": {}
}
},
"AllowCheckIn": {
"target":
"com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether check-ins are allowed. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a resource entitled for use with a license. "
}
},
"com.amazonaws.licensemanager#EntitlementData": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement
data value. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {
"smithy.api#documentation": " Entitlement data unit. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Data associated with an entitlement resource. "
}
},

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    "com.amazonaws.licensemanager#EntitlementDataList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementData"
        }
    },
    "com.amazonaws.licensemanager#EntitlementDataUnit": {
        "type": "enum",
        "members": {
            "COUNT": {
                "target": "smithy.api#Unit",
                "traits": {

"smithy.api#enumValue": "Count"
                }
            },
            "NONE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "None"
                }
            },
            "SECONDS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Seconds"
                }
            },
            "MICROSECONDS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Microseconds"
                }
            },
            "MILLISECONDS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Milliseconds"
                }
            },
            "BYTES": {
                "target": "smithy.api#Unit",
                 "traits": {
                    "smithy.api#enumValue": "Bytes"
                }
            },
            "KILOBYTES": {
                "target": "smithy.api#Unit",
```

"traits": {
"smithy.api#enumValue": "Kilobytes"
}
},
"MEGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes"
}
},
"GIGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes"
}
},
"TERABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {

"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"

}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"
}
},
"KILOBYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes/Second"
}
},
"MEGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes/Second"
}
},
"GIGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes/Second"
}
},
"TERABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes/Second"
}
},
"BITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits/Second"
}
},

"KILOBITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits/Second"
}
},
"MEGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue":
"Megabits/Second"
}
},
"GIGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits/Second"
}
},
"TERABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits/Second"
}
},
"COUNT_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count/Second"
}
}
}
},
"com.amazonaws.licensemanager#EntitlementList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Entitlement"
}
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {

"smithy.api#documentation": " The entitlement is not allowed. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#EntitlementUnit": {
"type": "enum",
"members": {
"COUNT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count"
}
},
"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"SECONDS":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Seconds"
}
},
"MICROSECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Microseconds"
}
},
"MILLISECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Milliseconds"
}
},
"BYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes"
}
},
"KILOBYTES": {
"target": "smithy.api#Unit",
"traits": {

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        "smithy.api#enumValue": "Kilobytes"
      }
    },
    "MEGABYTES": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Megabytes"
      }
    },
    "GIGABYTES": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Gigabytes"
      }
    },
    "TERABYTES": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Terabytes"
      }
    },
    "BITS": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Bits"
      }
    },
    "KILOBITS": {
      "target": "smithy.api#Unit",
      "traits": {

       "smithy.api#enumValue": "Kilobits"
      }
    },
    "MEGABITS": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Megabits"
      }
    },
    "GIGABITS": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Gigabits"
      }
    },
    "TERABITS": {
      "target": "smithy.api#Unit",
```

"traits": {
"smithy.api#enumValue": "Terabits"
}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target":
"smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"
}
},
"KILOBYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes/Second"
}
},
"MEGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes/Second"
}
},
"GIGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes/Second"
}
},
"TERABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Terabytes/Second"
}
},
"BITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits/Second"
}
},

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        "KILOBITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobits/Second"
            }
        },
        "MEGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabits/Second"
            }
        },
        "GIGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabits/Second"
            }
        },

    "TERABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits/Second"
            }
        },
        "COUNT_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Count/Second"
            }
        }
    }
},
"com.amazonaws.licensemanager#EntitlementUsage": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                "smithy.api#required": {}
            }
        },
        "ConsumedValue": {
            "target": "com.amazonaws.licensemanager#String",

        "traits": {
                "smithy.api#documentation": "<p>Resource usage consumed.</p>",
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                "smithy.api#required": {}
            }
        },
        "MaxCount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
    }
},
"com.amazonaws.licensemanager#EntitlementUsageList":
{
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#EntitlementUsage"
    }
},
"com.amazonaws.licensemanager#ExtendLicenseConsumption": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
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            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}

      }
            },
            "DryRun": {
                "target": "com.amazonaws.licensemanager#Boolean",
                "traits": {
                    "smithy.api#default": false,
                    "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>"
                }
            },
```

"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license consumption expires. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#FailedDependencyException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
},
"ErrorCode": {
"target": "com.amazonaws.licensemanager#String"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FailedDependency",
"httpResponseCode": 424
},
"smithy.api#documentation":
" A dependency required to run the API is missing. ",
"smithy.api#error": "client",
"smithy.api#httpError": 424
}
},
"com.amazonaws.licensemanager#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#FilterName",
"traits": {
"smithy.api#documentation": " Name of the filter. Filter names are case-sensitive. "
}
},
"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " The value of the filter, which is case-sensitive. You can only
specify one value for the filter. "
}

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            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A filter
 name and value pair that is used to return more specific results from a\n          describe operation. Filters can be used
to match a set of resources by specific criteria,\n          such as tags, attributes, or IDs.</p>"
        }
    },
    "com.amazonaws.licensemanager#FilterLimitExceededException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "FilterLimitExceeded",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#FilterList": {
        "type": "list",
         "member": {
            "target": "com.amazonaws.licensemanager#Filter"
        }
    },
    "com.amazonaws.licensemanager#FilterName": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#FilterValue": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#FilterValues": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#FilterValue",
            "traits": {
                "smithy.api#xmlName": "item"
            }
        }
    },
    "com.amazonaws.licensemanager#Filters": {
        "type": "list",
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"member": {
"target": "com.amazonaws.licensemanager#Filter",
"traits": {
"smithy.api#xmlName": "item"
}
}
},
"com.amazonaws.licensemanager#GetAccessToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access tokens\n are valid for one hour. "
}
},
"com.amazonaws.licensemanager#GetAccessTokenRequest": {
"type": "structure",
"members": {
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token, encoded as a JWT token. ",
"smithy.api#required": {}
}
},

"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Token properties to validate against those present in the JWT token. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetAccessTokenResponse": {
"type": "structure",
"members": {
"AccessToken": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Temporary access token. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"

},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"

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        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
                "smithy.api#documentation": "<p>Grant details.</p>"
            }
        }
    },
    "traits": {
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"smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"

 },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": " Gets detailed information about the specified license. "
    }
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },

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            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license
configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits":
{
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
```

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    }
},
"Name": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
        "smithy.api#documentation": "<p>Name of the license configuration.</p>"
     }
},
"Description": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
        "smithy.api#documentation": "<p>Description of the license configuration.</p>"
    }
},
"LicenseCountingType": {
    "target": "com.amazonaws.licensemanager#LicenseCountingType",
    "traits": {
        "smithy.api#documentation": "<p>Dimension for which the licenses are counted.</p>"
    }
},
"LicenseRules": {
    "target": "com.amazonaws.licensemanager#StringList",
    "traits": {
        "smithy.api#documentation": "<p>License rules.</p>"
    }
},
"LicenseCount": {
    "target": "com.amazonaws.licensemanager#BoxLong",

   "traits": {
        "smithy.api#documentation": "<p>Number of available licenses.</p>"
    }
},
"LicenseCountHardLimit": {
    "target": "com.amazonaws.licensemanager#BoxBoolean",
    "traits": {
        "smithy.api#documentation": "<p>Sets the number of available licenses as a hard limit.</p>"
    }
},
"ConsumedLicenses": {
    "target": "com.amazonaws.licensemanager#BoxLong",
    "traits": {
        "smithy.api#documentation": "<p>Number of licenses assigned to resources.</p>"
    }
},
"Status": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
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"smithy.api#documentation": " License configuration status. "
}

},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When
true, disassociates a resource when software is uninstalled. "
}
}
},

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified license type conversion task. "
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}

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        }
      },
      "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
        "type": "structure",
        "members": {
          "LicenseConversionTaskId": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
            "traits": {
              "smithy.api#documentation": "<p>ID of the license type conversion task.</p>"
            }
          },
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the resources the license
conversion task is associated with.</p>"
            }
          },
          "SourceLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
              "smithy.api#documentation": "<p>Information
 about the license type converted from.</p>"
            }
          },
          "DestinationLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
              "smithy.api#documentation": "<p>Information about the license type converted to.</p>"
            }
          },
          "StatusMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
            "traits": {
              "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
            }
          },

  "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
```

```
            }
        },
        "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
            }
        },
        "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGenerator":
{
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

    },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
                    "smithy.api#required":
{}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {
            "ReportGenerator": {
                "target": "com.amazonaws.licensemanager#ReportGenerator",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
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"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseResponse": {
"type": "structure",
"members": {
"License": {
"target": "com.amazonaws.licensemanager#License",
"traits": {
"smithy.api#documentation": " License details. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},

"com.amazonaws.licensemanager#GetLicenseUsage": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{

"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the usage of the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseUsageRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseUsageResponse": {
"type": "structure",
"members": {
"LicenseUsage": {
"target":
"com.amazonaws.licensemanager#LicenseUsage",
"traits": {
"smithy.api#documentation": " License usage details. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetServiceSettings": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets the License Manager settings for the current Region. "
}
},
"com.amazonaws.licensemanager#GetServiceSettingsRequest": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Regional S3 bucket path for storing reports, license trail event data, discovery data,\n and so on. "

}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " SNS topic configured to receive notifications from License Manager. "

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            }
        },
        "OrganizationConfiguration": {
            "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Indicates whether Organizations is integrated with License
Manager for\n        cross-account discovery.</p>"
            }
        },
        "EnableCrossAccountsDiscovery": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Indicates whether cross-account discovery is enabled.</p>"
            }

    },
        "LicenseManagerResourceShareArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
Manager management account \n        provides member accounts with access to this share.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#Grant": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "GrantName": {

 "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant name.</p>",
                "smithy.api#required": {}
            }
        },
        "ParentArn": {
            "target": "com.amazonaws.licensemanager#Arn",
```

"traits": {
"smithy.api#documentation": " Parent ARN. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. ",
"smithy.api#required": {}
}
},
"GranteePrincipalArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {

"smithy.api#documentation": " The grantee principal ARN. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. ",
"smithy.api#required": {}
}
},
"GrantedOperations": {

"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Granted operations. ",
"smithy.api#required": {}
}
},
"Options": {
"target": "com.amazonaws.licensemanager#Options",
"traits": {
"smithy.api#documentation": " The options specified for the grant. "
}
}
},
"traits": {
"smithy.api#documentation":
" Describes a grant. "
}
},
"com.amazonaws.licensemanager#GrantList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Grant"
}
},
"com.amazonaws.licensemanager#GrantStatus": {
"type": "enum",
"members": {
"PENDING_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_WORKFLOW"
}
},
"PENDING_ACCEPT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_ACCEPT"
}
},
"REJECTED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REJECTED"

}
},
"ACTIVE": {
"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "ACTIVE"
}
},
"FAILED_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "FAILED_WORKFLOW"
}
},
"DELETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DELETED"
}
},
"PENDING_DELETE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_DELETE"
}
},
"DISABLED": {
"target": "smithy.api#Unit",
"traits":
{
"smithy.api#enumValue": "DISABLED"
}
},
"WORKFLOW_COMPLETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "WORKFLOW_COMPLETED"
}
}
}
},
"com.amazonaws.licensemanager#GrantedLicense": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " License name. "
}

},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " Granted license issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the granted license. "

}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " Granted license status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the granted license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Granted license beneficiary. "
}

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        },
        "Entitlements": {
          "target": "com.amazonaws.licensemanager#EntitlementList",
           "traits": {
            "smithy.api#documentation": "<p>License entitlements.</p>"
          }
        },
        "ConsumptionConfiguration": {
          "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
          "traits": {
            "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
          }
        },
        "LicenseMetadata": {
          "target": "com.amazonaws.licensemanager#MetadataList",
          "traits": {
            "smithy.api#documentation": "<p>Granted license metadata.</p>"
          }
        },
        "CreateTime": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
          "traits": {
            "smithy.api#documentation": "<p>Creation time of the granted license.</p>"

}
        },
        "Version": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Version of the granted license.</p>"
          }
        },
        "ReceivedMetadata": {
          "target": "com.amazonaws.licensemanager#ReceivedMetadata",
          "traits": {
            "smithy.api#documentation": "<p>Granted license received metadata.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Describes a license that is granted to a grantee.</p>"
      }
    },
    "com.amazonaws.licensemanager#GrantedLicenseList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#GrantedLicense"
      }
```

```
    },
    "com.amazonaws.licensemanager#ISO8601DateTime":
{
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            },
            "smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-
1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[ 0-3]|[0-1][0-9]):[0-5][0-9])+$"
        }
    },
    "com.amazonaws.licensemanager#Integer": {
        "type": "integer"
    },
    "com.amazonaws.licensemanager#InvalidParameterValueException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidParameterValueProvided",
                "httpResponseCode": 400
            },
            "smithy.api#documentation":
"<p>One or more parameter values are not valid.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InvalidResourceStateException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidResourceState",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n        <p>For example, you cannot allocate a license to an instance in the process of shutting\n
```

down. ",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },

    "com.amazonaws.licensemanager#InventoryFilter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " Name of the filter. ",
                    "smithy.api#required": {}
                }
            },
            "Condition": {
                "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
                "traits": {
                    "smithy.api#documentation": " Condition of the filter. ",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " Value of the filter. "
                }
            }

    },
        "traits": {
            "smithy.api#documentation": " An inventory filter. "
        }
    },
    "com.amazonaws.licensemanager#InventoryFilterCondition": {
        "type": "enum",
        "members": {
            "EQUALS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "EQUALS"
                }
            },
            "NOT_EQUALS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "NOT_EQUALS"

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                }
            },
            "BEGINS_WITH": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "BEGINS_WITH"
                }
            },
            "CONTAINS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "CONTAINS"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#InventoryFilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#InventoryFilter"
        }
    },
    "com.amazonaws.licensemanager#Issuer": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>",
                    "smithy.api#required": {}
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage
 of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about the issuer of a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#IssuerDetails": {
        "type": "structure",
        "members": {
```

"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. "
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer key fingerprint. "
}
}
},
"traits": {
"smithy.api#documentation": " Details associated with the issuer of a license. "
}
},
"com.amazonaws.licensemanager#License": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " License name. "
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " License issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Home Region of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"Entitlements": {

"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "

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                }
            },
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>License metadata.</p>"
                }
            },
            "CreateTime": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>License
creation time.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfiguration": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            },
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>"
                }
            },
            "Description": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension to use to track the license inventory. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Number of available licenses as a hard limit. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the license configuration. "
}
},

"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the license configuration's owner. "

}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for licenses consumed by various resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {

"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource consuming licenses. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " Time when the license configuration was associated with the resource. "
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an association with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
}
},
"com.amazonaws.licensemanager#LicenseConfigurationStatus": {
"type": "enum",
"members":
{
"AVAILABLE": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "AVAILABLE"
}
},
"DISABLED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DISABLED"
}
}
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsage": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits":
{
"smithy.api#documentation": " Type of resource. "
}
},
"ResourceStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was initially associated with
the resource. "
}
},

"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
}
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfiguration"
}
},
"com.amazonaws.licensemanager#LicenseConversionContext": {

"type": "structure",
"members": {
"UsageOperation": {
"target": "com.amazonaws.licensemanager#UsageOperation",
"traits": {
"smithy.api#documentation": " The Usage operation value that corresponds to the license type you are converting your resource from. For more information about which platforms correspond to which usage operation values see Sample data: usage operation by platform\n \n "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTask": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {

"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource associated with the license type\n conversion task. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted to. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " The status of the conversion task. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was started at. "
}
},
"LicenseConversionTime": {
"target": "com.amazonaws.licensemanager#DateTime",

"traits": {
"smithy.api#documentation": " The time the usage operation value of the resource was changed. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was completed. "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTaskId": {
"type": "string",
"traits": {

"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
}
},
"com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
"type": "enum",
"members": {
"IN_PROGRESS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "IN_PROGRESS"
}
},
"SUCCEEDED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SUCCEEDED"
}
},
"FAILED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "FAILED"
}
}

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        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTasks":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTask"
        }
    },
    "com.amazonaws.licensemanager#LicenseCountingType": {
        "type": "enum",
        "members": {
            "VCPU": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "vCPU"
                }
            },
            "INSTANCE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Instance"
                }
            },
            "CORE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Core"
                }
            },
            "SOCKET": {
                "target": "smithy.api#Unit",
                 "traits": {
                    "smithy.api#enumValue": "Socket"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#LicenseDeletionStatus": {
        "type": "enum",
        "members": {
            "PENDING_DELETE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_DELETE"
                }
            },
            "DELETED": {
```

"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DELETED"
}
}
}
},
"com.amazonaws.licensemanager#LicenseList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#License"
}
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {

"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Resource type. "
}
},
"ErrorMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Error message. "
}
},
"FailureTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " Failure time. "
}
},
"OperationName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the operation. "
}
},

"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource. "
}
},
"OperationRequestedBy": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The requester is \"License Manager Automated Discovery\". "
}
},
"MetadataList": {

"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Reserved. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the failure of a license operation. "
}
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailure"
}
},
"com.amazonaws.licensemanager#LicenseSpecification": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",

"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "

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            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details for associating a license configuration with a resource.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#LicenseSpecification"
    }
},
"com.amazonaws.licensemanager#LicenseStatus": {
    "type": "enum",
    "members": {
        "AVAILABLE": {
            "target": "smithy.api#Unit",

        "traits": {
                "smithy.api#enumValue": "AVAILABLE"
            }
        },
        "PENDING_AVAILABLE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_AVAILABLE"
            }
        },
        "DEACTIVATED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DEACTIVATED"
            }
        },
        "SUSPENDED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "SUSPENDED"
            }
        },
        "EXPIRED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EXPIRED"
            }
        },
```

"PENDING_DELETE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_DELETE"
}
},
"DELETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DELETED"
}
}
}
},
"com.amazonaws.licensemanager#LicenseUsage": {
"type": "structure",
"members": {
"EntitlementUsages": {
"target": "com.amazonaws.licensemanager#EntitlementUsageList",
"traits": {
"smithy.api#documentation": " License entitlement usages. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the entitlement usage associated with a license. "

}
},
"com.amazonaws.licensemanager#LicenseUsageException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "LicenseUsageFailure",
"httpResponseCode": 412
},
"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the resource associations for the
specified license configuration. \n Resource associations need not consume licenses from a license
configuration. \n For example, an AMI or a stopped instance might not consume a license (depending on \n
the license rules). "
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {

"smithy.api#documentation": " Maximum number of results
to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationAssociations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license
configuration. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"

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            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants distributed for the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
        "type": "structure",
        "members": {
            "GrantArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {

            "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>LicenseArn</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                <code>GrantStatus</code>\n                </p>\n            </li>\n
    <li>\n                <p>\n                <code>GranteePrincipalARN</code>\n                </p>\n            </li>\n
<li>\n                <p>\n                <code>ProductSKU</code>\n                </p>\n            </li>\n            <li>\n
<p>\n                <code>LicenseIssuerName</code>\n
        </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
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            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
    "type": "structure",
    "members": {
        "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",

"traits": {
                "smithy.api#documentation": "<p>Distributed grant details.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
    },
    "errors": [
        {
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"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configuration operations that failed. "
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name of the license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse":

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{
        "type": "structure",
        "members": {
           "LicenseOperationFailureList": {
              "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
              "traits": {
                 "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
              }
           },
           "NextToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
           }
        },
        "traits": {
           "smithy.api#output": {}
        }
     },
     "com.amazonaws.licensemanager#ListLicenseConfigurations": {
        "type": "operation",
        "input": {
           "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },

    "output": {
           "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
           {
              "target": "com.amazonaws.licensemanager#AccessDeniedException"
           },
           {
              "target": "com.amazonaws.licensemanager#AuthorizationException"
           },
           {
              "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
           },
           {
              "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
           },
           {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
           },
           {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
           }
```

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        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations
 for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next
 set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n                Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n                Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n                <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n                Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n
    </li>\n            <li>\n                <p>\n                <code>usagelimitExceeded</code> - A Boolean value that
indicates whether the available licenses have been exceeded. \n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
```

```
    }
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
    "type": "structure",
    "members": {
        "LicenseConfigurations": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurations",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license configurations.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",

      "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasks": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
         },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
```

"traits": {
"smithy.api#documentation": " Lists the license type conversion tasks for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
"type": "structure",
"members": {
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " \n Filters to scope the results. Valid filters are <code>ResourceArns</code> and <code>Status</code>.\n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
"type": "structure",
"members": {
"LicenseConversionTasks": {
"target": "com.amazonaws.licensemanager#LicenseConversionTasks",
"traits": {
"smithy.api#documentation": " Information about the license configuration tasks for your account. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}

```
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the report generators for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest":
{
        "type": "structure",
        "members": {
```

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported:
\n \n \n \n <code>LicenseConfigurationArn</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits":
{
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
"type": "structure",
"members": {
"ReportGenerators": {
"target": "com.amazonaws.licensemanager#ReportGeneratorList",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic reports about your license
configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}

}
},
"traits": {
"smithy.api#output": {}
}
},

"com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Describes the license configurations for the specified resource. "
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a resource that has an associated license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {

```
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {
        "LicenseSpecifications": {
            "target": "com.amazonaws.licensemanager#LicenseSpecifications",
            "traits": {
                "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
            }
        },
        "NextToken": {
             "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

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        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
    "type": "structure",
    "members": {
        "Licenses": {
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
                "smithy.api#documentation": "<p>License details.</p>"
            }
        },
```

"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenses": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicensesRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicensesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses for your account. "
}
},
"com.amazonaws.licensemanager#ListLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {

"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>Status</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#LicenseList",
"traits": {
"smithy.api#documentation": " License details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists grants that are received. Received grants are grants created while specifying the\n recipient as this Amazon Web Services account, your organization, or an organizational unit\n (OU) to which this member account belongs. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
"type": "operation",
"input": {

"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target":
"com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants received for all accounts in the organization. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the received license. ",
"smithy.api#required": {}
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are
supported: \n

```
<ul>\n <li>\n <p>\n <code>ParentArn</code>\n </p>\n </li>\n
<li>\n <p>\n <code>GranteePrincipalArn</code>\n </p>\n </li>\n </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse":
{
        "type": "structure",
        "members": {
          "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
            "traits": {
              "smithy.api#documentation": "<p>Lists the grants the organization has received.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
        "type": "structure",
        "members": {
          "GrantArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
```

"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranterAccountId</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Received grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}

```
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicenses": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists received licenses.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
```

```
            },
            "errors": [
                {
                    "target": "com.amazonaws.licensemanager#AccessDeniedException"
                },
                {
                    "target": "com.amazonaws.licensemanager#AuthorizationException"
                },
                {
                    "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
                },
                {
                    "target": "com.amazonaws.licensemanager#RateLimitExceededException"
                },
                {
                    "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
                },
                {

        "target": "com.amazonaws.licensemanager#ServerInternalException"
                },
                {
                    "target": "com.amazonaws.licensemanager#ValidationException"
                }
            ],
            "traits": {
                "smithy.api#documentation": "<p>Lists the licenses received for all accounts in the organization.</p>"
            }
        },
        "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
            "type": "structure",
            "members": {
                "Filters": {
                    "target": "com.amazonaws.licensemanager#FilterList",
                    "traits": {
                        "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>Beneficiary</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                <code>ProductSKU</code>\n
                </p>\n            </li>\n        </ul>"
                    }
                },
                "NextToken": {
                    "target": "com.amazonaws.licensemanager#String",
                    "traits": {
                        "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                    }
                },
                "MaxResults": {
```

"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#GrantedLicenseList",
"traits": {
"smithy.api#documentation": " Lists the licenses the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>IssuerName</code>\n \n \n \n \n

```
<code>Beneficiary</code>\n            </p>\n          </li>\n        </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#GrantedLicenseList",
            "traits": {
                "smithy.api#documentation": "<p>Received license details.</p>"
            }
          },

         "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListResourceInventory": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
```

```
            },
            "errors": [
                {
                    "target": "com.amazonaws.licensemanager#AccessDeniedException"
                },
                {
                    "target": "com.amazonaws.licensemanager#AuthorizationException"
                },
                {
                    "target": "com.amazonaws.licensemanager#FailedDependencyException"
                },
                {
                    "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
                },
                {
                    "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
                },
                {
                    "target": "com.amazonaws.licensemanager#RateLimitExceededException"
                },
                {
                    "target": "com.amazonaws.licensemanager#ServerInternalException"
                }
            ],
            "traits": {
                "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
            }
        },
        "com.amazonaws.licensemanager#ListResourceInventoryRequest": {
            "type": "structure",
            "members": {
                "MaxResults": {
                    "target": "com.amazonaws.licensemanager#BoxInteger",
                    "traits": {
                        "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                    }
                },
                "NextToken": {
                    "target": "com.amazonaws.licensemanager#String",
                    "traits": {
                        "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                    }
                },
                "Filters": {
                    "target": "com.amazonaws.licensemanager#InventoryFilterList",
                    "traits": {
                        "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n are supported:</p>\n <ul>\n <li>\n <p>\n <code>account_id</code>
```

- The ID of the Amazon Web Services account that owns the resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n
\n \n \n <code>application_name</code> - The name of the application. \n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n
\n \n \n <code>license_included</code> - The type of license included. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n Possible values are <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n
\n <code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n \n \n \n
<code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n
<code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account). \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListResourceInventoryResponse": {
"type": "structure",
"members": {
"ResourceInventoryList": {
"target": "com.amazonaws.licensemanager#ResourceInventoryList",
"traits": {
"smithy.api#documentation": " Information about the resources. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListTagsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
},

```
        "output": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the tags for the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the tags.</p>"
```

```
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors":
[
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
          "TokenIds": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {

              "smithy.api#documentation": "<p>Token IDs.</p>"
            }
          },
          "Filters": {
```

"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filter is supported: \n
\n \n \n <code>LicenseArns</code>\n \n \n
"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation":
" Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListTokensResponse": {
"type": "structure",
"members": {
"Tokens": {
"target": "com.amazonaws.licensemanager#TokenList",
"traits": {
"smithy.api#documentation": " Received token details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
"type": "operation",

"input": {
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists all license usage records for a license configuration, displaying license\n consumption details by resource at a selected point in time. Use this action to audit the\n current license consumption for any license inventory and configuration. "
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}

```
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>resourceArn</code> - The ARN of the license configuration resource.\n
            Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n
 <li>\n                <p>\n                <code>resourceType</code> - The resource type
(<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> |
<code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n
     <code>resourceAccount</code> - The ID of the account that owns the resource. \n                Logical operators
are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
        "type": "structure",
        "members": {

 "LicenseConfigurationUsageList": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
```

"com.amazonaws.licensemanager#Location": {
"type": "string"
},
"com.amazonaws.licensemanager#Long": {
"type": "long"
},
"com.amazonaws.licensemanager#ManagedResourceSummary": {
"type": "structure",
"members": {
"ResourceType":
{
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of resource associated with a license. "
}
},
"AssociationCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of resources associated with licenses. "
}
}
},
"traits": {
"smithy.api#documentation": " Summary information about a managed resource. "
}
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummary"
}
},
"com.amazonaws.licensemanager#MaxSize100": {

"type": "integer",
"traits": {
"smithy.api#range": {
"min": 1,
"max": 100
}
}
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#String"
},

"traits": {
"smithy.api#length": {
"min": 0,
"max": 3
}
}
},
"com.amazonaws.licensemanager#Message": {
"type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The key name. "
}
},

"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The value. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes key/value pairs. "
}
},
"com.amazonaws.licensemanager#MetadataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Metadata"
}
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",

"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#Options": {
"type": "structure",
"members": {
"ActivationOverrideBehavior": {
"target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
"traits": {
"smithy.api#documentation": " An activation option for your grant that determines the behavior of activating a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter. \n \n \n As a license administrator, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant. \n \n \n As a grantor, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your organization. \n \n \n As a grantee, if the grantor creating the distributed grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n are activating the grant. \n \n \n <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n Use this value to activate a grant without replacing any member accounts\n active grants for the same product. \n </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n Use this value to activate a grant and disable other active grants in any\n member accounts
for the same product. This action will also replace their\n previously activated grants with this activated grant. \n </dd>\n </dl>"
}
}
},
"traits": {
"smithy.api#documentation": " The options you can specify when you create a new version of a grant, such as activation\n override behavior. For more information, see Granted licenses in License Manager in the License Manager User Guide. "
}
},
"com.amazonaws.licensemanager#OrganizationConfiguration": {
"type": "structure",
"members": {
"EnableIntegration": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#default": false,
"smithy.api#documentation":
" Enables Organizations integration. ",
"smithy.api#required": {}
}
}

```
        },
        "traits": {
            "smithy.api#documentation": "<p>Configuration information for Organizations.</p>"
        }
    },
    "com.amazonaws.licensemanager#PrincipalArnList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Arn"
        },
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max": 1
            }
        }
    },
    "com.amazonaws.licensemanager#ProductInformation": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type. The
 possible values are <code>SSM_MANAGED</code> | <code>RDS</code>.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductInformationFilterList": {
                "target": "com.amazonaws.licensemanager#ProductInformationFilterList",
                "traits": {
                    "smithy.api#documentation": "<p>A Product information filter consists of a
<code>ProductInformationFilterComparator</code> which is a logical operator, a
<code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a
<code>ProductInformationFilterValue</code> that specifies the value to filter on. </p>\n        <p>Accepted values
for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for
<code>ProductInformationFilterComparator</code>. </p>\n        <p>The following filters and are supported when
the resource type \n        is <code>SSM_MANAGED</code>:</p>\n
        <ul>\n            <li>\n                <p>\n                    <code>Application Name</code> - The name of the
application.\n                Logical operator is <code>EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n                <code>Application Publisher</code> - The publisher of the application.\n                Logical
operator is <code>EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n
<code>Application Version</code> - The version of the application.\n                Logical operator is
<code>EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                    <code>Platform
Name</code> - The name of the platform.\n                Logical operator is <code>EQUALS</code>.</p>\n
</li>\n            <li>\n                <p>\n                    <code>Platform Type</code> - The platform type.\n
Logical operator is <code>EQUALS</code>.</p>\n
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</li>\n <li>\n <p>\n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>.  The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n </p>\n </li>\n <li>\n <p>\n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>.</p>\n </li>\n <li>\n <p>\n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> |  \n <code>windows-server-datacenter</code>.</p>\n </li>\n </ul>\n <p>The following filters and logical operators are supported when the resource type\n is <code>RDS</code>:</p>\n <ul>\n <li>\n <p>\n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>.</p>\n </li>\n <li>\n <p>\n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n <code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>.</p>\n </li>\n </ul>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Describes product information for a license configuration.</p>"
      }
    },
    "com.amazonaws.licensemanager#ProductInformationFilter": {
      "type": "structure",
      "members": {
        "ProductInformationFilterName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Filter name.</p>",
            "smithy.api#required": {}
          }
        },
        "ProductInformationFilterValue": {
          "target": "com.amazonaws.licensemanager#StringList",

        "traits": {
            "smithy.api#documentation": "<p>Filter value.</p>"
          }
        },
        "ProductInformationFilterComparator": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
```

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                "smithy.api#documentation": "<p>Logical operator.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes product information filters.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformationFilter"
    }
},
"com.amazonaws.licensemanager#ProductInformationList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformation"
    }
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
    "type": "structure",
    "members": {
        "MaxTimeToLiveInMinutes": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
    }
},
"com.amazonaws.licensemanager#RateLimitExceededException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "RateLimitExceeded",
            "httpResponseCode": 429
        },
```

"smithy.api#documentation": " Too many requests have been submitted. Try again after a brief wait. ",
"smithy.api#error": "client",
"smithy.api#httpError": 429
}
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
"type": "structure",
"members": {
"ReceivedStatus": {
"target": "com.amazonaws.licensemanager#ReceivedStatus",
"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Received status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations. "
}
}
},
"traits": {
"smithy.api#documentation": " Metadata associated with received licenses and grants. "
}
},
"com.amazonaws.licensemanager#ReceivedStatus": {
"type": "enum",
"members": {
"PENDING_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_WORKFLOW"
}
},
"PENDING_ACCEPT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_ACCEPT"
}

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        },
        "REJECTED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "REJECTED"
            }
        },
        "ACTIVE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "ACTIVE"
            }
        },
        "FAILED_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        },
        "DISABLED": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "DISABLED"
            }
        },
        "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#RedirectException": {
    "type": "structure",
    "members": {
        "Location": {
            "target": "com.amazonaws.licensemanager#Location",
            "traits": {
                "smithy.api#httpHeader": "Location"
            }
        },
```

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            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
             "smithy.api#error": "client",
            "smithy.api#httpError": 308
        }
    },
    "com.amazonaws.licensemanager#RejectGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#RejectGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#RejectGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest": {
        "type": "structure",
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        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}

  }
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Grant version.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#RenewType":
{
        "type": "enum",
        "members": {
          "NONE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "None"
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            }
        },
        "WEEKLY": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Weekly"
            }
        },
        "MONTHLY": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Monthly"
            }
        }
    }
},
"com.amazonaws.licensemanager#ReportContext": {
    "type": "structure",
    "members": {
        "licenseConfigurationArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {

        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration that this
generator reports on.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details of the license configuration that this generator reports on.</p>"
    }
},
"com.amazonaws.licensemanager#ReportFrequency": {
    "type": "structure",
    "members": {
        "value": {
            "target": "com.amazonaws.licensemanager#Integer",
            "traits": {
                "smithy.api#documentation": "<p>Number of times within the frequency period that a report is
generated.  \n        The only supported value is <code>1</code>.</p>"
            }
        },
        "period": {
            "target": "com.amazonaws.licensemanager#ReportFrequencyType",

            "traits": {
                "smithy.api#documentation": "<p>Time period between each report. The period can be daily, weekly,
```

or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"com.amazonaws.licensemanager#ReportFrequencyType": {
"type": "enum",
"members": {
"DAY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DAY"
}
},
"WEEK": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "WEEK"
}
},
"MONTH": {
"target": "smithy.api#Unit",
"traits":
{
"smithy.api#enumValue": "MONTH"
}
}
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the report generator. "
}
},
"ReportType": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports that are generated. "
}
},
"ReportContext": {

"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " License configuration type for this generator. "
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. "
}
},
"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}
},
"LastRunFailureReason": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Failure message for the last report generation attempt. "
}
},
"LastReportGenerationTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the last report was generated at. "
}
},
"ReportCreatorAccount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Web Services account ID used to create the report generator. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the report was created. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags associated with the report generator. "
}

}
},
"traits": {
"smithy.api#documentation": " Describe the details of a report generator. "
}
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportGenerator"
}
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
}
}
},
"com.amazonaws.licensemanager#ReportType": {
"type": "enum",
"members": {
"LICENSE_CONFIGURATION_SUMMARY_REPORT": {

"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "LicenseConfigurationSummaryReport"
}

},
"LICENSE_CONFIGURATION_USAGE_REPORT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "LicenseConfigurationUsageReport"
}
}
}
},
"com.amazonaws.licensemanager#ReportTypeList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportType"
}
},
"com.amazonaws.licensemanager#ResourceInventory": {
"type": "structure",
"members": {
"ResourceId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits":
{
"smithy.api#documentation": " Type of resource. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"Platform": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Platform of the resource. "
}
},

"PlatformVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Platform version of the resource in the inventory. "
}
},
"ResourceOwningAccountId":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a resource. "
}
},
"com.amazonaws.licensemanager#ResourceInventoryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ResourceInventory"
}
},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ResourceLimitExceeded",

"httpResponseCode": 400
},
"smithy.api#documentation": " Your resource limits have been exceeded. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}

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    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "InvalidResource.NotFound",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The resource cannot be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceType": {
    "type": "enum",
    "members": {
        "EC2_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_INSTANCE"
            }
        },
        "EC2_HOST": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_HOST"
            }
        },
        "EC2_AMI": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_AMI"
            }
        },
        "RDS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "RDS"
            }
        },
        "SYSTEMS_MANAGER_MANAGED_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
            }
        }
    }
},
"com.amazonaws.licensemanager#S3Location": {
    "type": "structure",
```

"members": {
"bucket": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the S3 bucket reports are published to. "
}
},
"keyPrefix": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Prefix of the S3 bucket reports are published to. "
}
}
},
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InternalError",
"httpResponseCode": 500
},
"smithy.api#documentation": " The server experienced an internal error. Try again. ",
"smithy.api#error": "server",
"smithy.api#httpError": 500
}
},
"com.amazonaws.licensemanager#SignedToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 4096
}
}
},
"com.amazonaws.licensemanager#StatusReasonMessage": {
"type": "string",
"traits":

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{
            "smithy.api#length": {
                "min": 0,
                "max": 400
            },
            "smithy.api#pattern": "^[\\s\\S]+$"
        }
    },
    "com.amazonaws.licensemanager#String": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#Tag": {
        "type": "structure",
        "members": {
            "Key": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag key.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Tag value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#TagList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Tag"
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        }
    },
    "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
            {
                "target":
 "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits":
 {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>One or more tags.</p>",
```

"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#TagResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#TokenData": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. "
}
},
"TokenType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"ExpirationTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Token expiration time, in ISO8601-UTC
format. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller. "

```
                }
            },
            "RoleArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the roles included in the
token.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token status. The possible values are
<code>AVAILABLE</code> and <code>DELETED</code>.</p>"
                }
            }
        },
        "traits": {

            "smithy.api#documentation": "<p>Describes a token.</p>"
        }
    },
    "com.amazonaws.licensemanager#TokenList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#TokenData"
        }
    },
    "com.amazonaws.licensemanager#TokenString": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 4096
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
    "com.amazonaws.licensemanager#TokenType": {
        "type": "enum",
        "members": {
            "REFRESH_TOKEN": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "REFRESH_TOKEN"
                }
            }
        }
```

```
    },
    "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException":
 {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The digital signature method is unsupported. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#UntagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UntagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UntagResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Removes the specified tags from the specified license
configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#UntagResourceRequest": {
        "type": "structure",
```

"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",
"traits": {
"smithy.api#documentation": " Keys identifying the tags to remove. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Modifies the attributes of an existing license configuration. "
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"LicenseConfigurationStatus": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
"traits": {
"smithy.api#documentation": " New status of the license configuration. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " New license rule. The only rule that you can add after you create a license\n configuration is licenseAffinityToHost. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " New number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {

"smithy.api#documentation": " New hard limit of the number of available licenses. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name
of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is
uninstalled. "
}
}
},
"traits":
{
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates a report generator. \n After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated. "
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to update. ",
"smithy.api#required": {}
}
},
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {

"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation":
" Type of reports to generate. The following report types are supported: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " The report context. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits":
{
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}

```
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },

            {
                "target": "com.amazonaws.licensemanager#InvalidResourceStateException"
            },
            {
                "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p>\n        <p>You can update the license specifications of AMIs, instances, and
hosts.\n        You cannot update the license specifications for launch templates and CloudFormation templates, \n
  as they send license configurations to the operation that creates the resource.</p>"
        }
    },
```

"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon Web Services resource. ",
"smithy.api#required": {}
}
},
"AddLicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " ARNs of the license configurations to add. "
}
},
"RemoveLicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " ARNs of the license configurations to remove. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where the License
 Manager information is stored.</p>"
                }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Enables integration with Organizations for cross-account discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Activates cross-account discovery.</p>"
```

```
        }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#UsageOperation": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            }
        }
    },
    "com.amazonaws.licensemanager#ValidationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",

     "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    }
  }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version
 of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
```

```
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack,
 options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
```

```
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if
 err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
```

1.4331 grpc-go 1.66.3

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1.4332 aws-sdk-go-v2-service-cloudwatchlogs 1.32.0

1.4332.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
```

```
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil,
 err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {
```

```
 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err !=
 nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
```

```
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
```

AWS SDK for Go

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```
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
     - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
       with:
         python-version: ${{ matrix.python-version }}
     # ScanCode
```

```
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
```

```
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return
 err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
```

```
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckInLicense",
 }
}
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
      "type": "integer"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
      "type": "long"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The type of name to filter by.</p>"
          }
        },
        "Values": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
          "traits": {
            "smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
          }
        },
        "Operator": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
           "traits": {
            "smithy.api#documentation": "<p>An operator for filtering results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>A filter object that is used to return more specific results from a describe
operation.\n      Filters can be used to match a set of resources by specific criteria.</p>"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
```

"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
},
"output": {

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions service settings. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/GetServiceSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest":
{
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}

```
            },
            "LinuxSubscriptionsDiscoverySettings": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
                "traits": {
                    "smithy.api#documentation": "<p>Lists the settings defined for Linux subscriptions discovery. The
settings include if\n      Organizations integration has been enabled, and
 which Regions data will be aggregated from.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
                }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
                "traits": {
                    "smithy.api#documentation": "<p>A message which details the Linux subscriptions service settings
current status.</p>"
                }
            },
            "HomeRegions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>The Region in which License Manager displays
 the aggregated data for Linux\n      subscriptions.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
        "type": "structure",
        "members": {
            "AmiId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The AMI ID used to launch the instance.</p>"
                }
            },
            "InstanceID": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The instance ID of the resource.</p>"
                }
            },
            "InstanceType": {
```

"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The instance type of the resource. "
}

},
"AccountID": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The account ID which owns the instance. "
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of the instance. "
}
},
"Region": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The Region the instance is running in. "
}
},
"UsageOperation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The usage operation of the instance. For more information, see For more information, see\n Usage\n operation values in the License Manager User Guide. "
}
},
"ProductCode": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
"traits": {
"smithy.api#documentation": " The product code for the instance. For more information, see Usage\n operation values in the License Manager User Guide . "
}
},
"LastUpdatedTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The time in which the last discovery updated the instance details. "
}
},

"SubscriptionName": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription being used by the instance. "
}
}
},
"traits": {
"smithy.api#documentation": " Details discovered information about a running instance using Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " An exception occurred with the service. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
"type": "service",
"version": "2018-05-10",
"operations": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
}
],

"traits": {
"aws.api#service": {
"sdkId": "License Manager Linux Subscriptions",
"arnNamespace": "license-manager-linux-subscriptions",
"cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
},
"aws.auth#sigv4": {
"name": "license-manager-linux-subscriptions"
},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",

"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"
]
},
"smithy.api#documentation": " With License Manager, you can discover and track your commercial Linux subscriptions on running\n Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager Linux Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {

"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}
},
"rules": [
{
"conditions": [
{
"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
]
}
],
"type": "tree",
"rules": [
{

"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
},
true
]

```
                }
            ],
            "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
            "type": "error"
        },
        {
            "conditions": [],
            "type": "tree",
            "rules": [
                {

          "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseDualStack"
                            },
                            true
                        ]
                    }
                ],
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                "type": "error"
            },
            {
                "conditions": [],

  "endpoint": {
                    "url": {
                        "ref": "Endpoint"
                    },
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ]
    }
  ]
},
{
  "conditions": [],
  "type": "tree",
  "rules": [
    {
        "conditions": [
            {
```

"fn": "isSet",

"argv": [
{
"ref": "Region"
}
]
}
],
"type": "tree",
"rules": [
{
"conditions": [
{
"fn": "aws.partition",
"argv": [
{
"ref": "Region"
}
],

"assign": "PartitionResult"
}
],
"type": "tree",
"rules": [
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
},
true
]
},

{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseDualStack"
},
true
]
}
],

"type": "tree",
"rules": [
{
"conditions": [
{

"fn": "booleanEquals",
"argv": [
true,
{
"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsFIPS"
]

}
]
},
{
"fn": "booleanEquals",
"argv": [
true,
{
"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},

"supportsDualStack"
]
}
]
}
],
"type": "tree",
"rules": [
{
"conditions": [],
"type": "tree",
"rules": [
{

"conditions": [],
"endpoint": {

"url": "https://license-manager-linux-subscriptions-fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
}
]

},
{
"conditions": [],
"error": "FIPS and DualStack are enabled, but this partition does not support one or both",
"type": "error"
}
]
},
{
"conditions": [
{
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"argv": [
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"ref": "UseFIPS"
},
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]
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"fn": "booleanEquals",
"argv": [
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{
"ref": "PartitionResult"
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"supportsFIPS"
]
}
]
}
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"conditions": [],
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"properties": {},
"headers": {}

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"type": "endpoint"
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{
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"error": "FIPS is enabled but this partition does not support FIPS",
"type": "error"
}
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},
{
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{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseDualStack"
},
true
]
}
],

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"conditions": [
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"fn": "booleanEquals",
"argv": [
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{
"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
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"supportsDualStack"
]
}
]
}
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"rules": [
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"conditions": [],
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"rules": [
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"conditions": [],

"endpoint": {
"url": "https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
}
]
},

{
"conditions": [],
"error": "DualStack is enabled but this partition does not support DualStack",
"type": "error"
}

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                "conditions": [],
                "type": "tree",
                "rules": [
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                            "properties": {},
                            "headers": {}
                        },
                        "type": "endpoint"
                    }
                ]
            }
        ]
    }
  ]
},
{
  "conditions": [],
  "error": "Invalid Configuration: Missing Region",
  "type": "error"
}
]
}
]
},
"smithy.rules#endpointTests": {
  "testCases": [
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      "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
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"expect": {

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}
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"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
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}
},
"params": {
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"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
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}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {

"url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",

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            "UseFIPS": true,
            "UseDualStack": true
        }
    },
    {
        "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
            }
        },
        "params": {
            "Region": "cn-north-1",
            "UseFIPS": true,
             "UseDualStack": false
        }
    },
    {
        "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
            }
        },
        "params": {
            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": true
        }
    },
    {
        "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint":
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                "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
            }
        },
        "params": {
            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
        "expect": {
            "endpoint": {
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                "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
            }
        },
        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": true,
            "UseDualStack": true
        }
    },
    {
        "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": true,
            "UseDualStack": false
        }
    },
    {
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        "expect": {
            "endpoint":
{
                "url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
            }
        },
        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
            "UseDualStack": true
        }
    },
    {
        "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
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        },
        {
          "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
          "expect": {
            "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
          },
          "params": {
            "Region": "us-iso-east-1",
            "UseFIPS": true,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
             }
          },
          "params": {
            "Region": "us-iso-east-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
          "expect": {
            "error": "DualStack is enabled but this partition does not support DualStack"
          },
          "params": {
            "Region": "us-iso-east-1",
            "UseFIPS": false,
            "UseDualStack": true
          }
        },
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"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
            }
          },
          "params": {
            "Region": "us-iso-east-1",
            "UseFIPS": false,
            "UseDualStack": false
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            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
            },
            "params": {

          "Region": "us-isob-east-1",
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                "UseDualStack": true
            }
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        {
            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
                }
            },
            "params": {
                "Region": "us-isob-east-1",
                "UseFIPS": true,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
            "expect": {
                "error": "DualStack is enabled but this partition does not support DualStack"
            },
            "params": {
                "Region": "us-isob-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
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            "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
                }
            },
            "params": {
                "Region": "us-isob-east-1",
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"UseFIPS": false,
"UseDualStack": false
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},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {
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"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",

"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,

"Endpoint": "https://example.com"
}
},
{

"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true,
"Endpoint": "https://example.com"
}
},
{
"documentation": "Missing region",
"expect": {
"error": "Invalid Configuration: Missing Region"
}

}
],
"version": "1.0"
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "Enabled",
"value": "Enabled",
"documentation": "Enabled LinuxSubscriptionsDiscovery"
},
{
"name": "Disabled",
"value": "Disabled",
"documentation": "Disabled LinuxSubscriptionsDiscovery"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
"type": "structure",
"members": {
"SourceRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Regions in which to discover data for Linux subscriptions. ",

"smithy.api#required": {}
}
},
"OrganizationIntegration": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
"traits": {
"smithy.api#documentation": " Details if you have enabled resource discovery across your accounts in Organizations. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Lists the settings defined for discovering Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the running Amazon EC2 instances that were discovered with commercial Linux\n subscriptions. ",
"smithy.api#http": {

"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptionInstances"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",

"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Instances"
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n match, or don't match a certain Amazon Machine Image (AMI) ID. \n The valid names for this filter are: \n \n \n \n <code>AmiID</code>\n \n \n \n \n <code>InstanceID</code>\n \n \n \n \n <code>AccountID</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Region</code>\n \n \n \n \n <code>UsageOperation</code>\n \n \n \n \n <code>ProductCode</code>\n \n \n \n \n <code>InstanceType</code>\n \n \n \n The valid Operators for this filter are: \n \n \n \n <code>contains</code>\n \n \n \n \n <code>equals</code>\n \n \n \n \n <code>Notequal</code>\n \n \n "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "

}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. ",
"smithy.api#length": {
"min": 1,
"max": 16384
}
}
}
},
"traits": {

"smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
"type": "structure",
"members": {
"Instances": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
"traits": {
"smithy.api#documentation": " An array that contains instance objects. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions that have been discovered. If you have linked your\n organization, the returned results will include data aggregated across your accounts in\n Organizations. ",
"smithy.api#http": {
"code": 200,
"method": "POST",

"uri": "/subscription/ListLinuxSubscriptions"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Subscriptions"
}

}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>Subscription</code> with an optional operator to see subscriptions that match,\n partially match, or don't match a certain subscription's name. \n The valid names for this filter are: \n \n \n \n <code>Subscription</code>\n \n \n \n The valid Operators for this filter are: \n \n \n \n <code>contains</code>\n \n \n \n \n <code>equals</code>\n \n \n \n \n <code>Notequal</code>\n \n \n "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. ",
"smithy.api#length": {

"min": 1,
"max": 16384
}
}
}
},
"traits": {

"smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
"type": "structure",
"members": {
"Subscriptions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
"traits": {
"smithy.api#documentation": " An array that contains subscription objects. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "EQUAL",
"value": "Equal",
"documentation": "Equal operator"
},
{
"name": "NOT_EQUAL",
"value": "NotEqual",
"documentation": "Not equal operator"
},
{
"name": "CONTAINS",
"value": "Contains",
"documentation": "Contains operator"
}
],
"smithy.api#length": {
"min": 1,
"max": 20
}
}
},

"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "Enabled",
"value": "Enabled",
"documentation": "Enabled OrganizationIntegration"
},
{
"name": "Disabled",
"value": "Disabled",
"documentation": "Disabled OrganizationIntegration"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
"type": "list",
"member": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
"type": "string",
"traits": {
"smithy.api#enum": [

{
"name": "InProgress",
"value": "InProgress",
"documentation": "InProgress status"
},
{
"name": "Completed",
"value": "Completed",
"documentation": "Completed status"
},
{
"name": "Successful",
"value": "Successful",
"documentation": "Successful status"
},
{
"name": "Failed",
"value": "Failed",
"documentation": "Failed status"

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            }
          ]
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
        "type": "list",
        "member": {
          "target": "smithy.api#String",
          "traits":
{
            "smithy.api#length": {
              "min": 1,
              "max": 100
            }
          }
        },
        "traits": {
          "smithy.api#length": {
            "min": 1,
            "max": 100
          },
          "smithy.api#uniqueItems": {}
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
        "type": "map",
        "key": {
          "target": "smithy.api#String"
        },
        "value": {
          "target": "smithy.api#String"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
        "type": "structure",
        "members": {
          "Name": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the subscription.</p>"

        }
          },
          "Type": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The type of subscription. The type can be subscription-included
with Amazon EC2, Bring Your Own\n      Subscription model (BYOS), or from the Amazon Web Services
```

Marketplace. Certain subscriptions may use licensing from the\n Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS. "
}
},
"InstanceCount": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
"traits": {
"smithy.api#documentation": " The total amount of running instances using this subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " An object which details a discovered Linux subscription. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request was denied due to request throttling. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
},

"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates the service settings for Linux subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/UpdateServiceSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest":
{
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Describes if the discovery of Linux subscriptions is enabled. ",
"smithy.api#required": {}
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The
settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated
from. ",

"smithy.api#required": {}
}
},
"AllowUpdate": {
"target": "smithy.api#Boolean",
"traits": {
"smithy.api#documentation": " Describes if updates are allowed to the service settings for Linux
subscriptions. If you\n allow updates, you can aggregate Linux subscription data in more than one home
Region. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {

"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},

"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {

```
            "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
            "smithy.api#error": "client"
        }
    }
  }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - Beneficiary
 //   - ProductSKU
 //   - Fingerprint
 //
   - Status
 Filters []types.Filter
```

```
 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if
 err := addProtocolFinalizerMiddlewares(stack, options, "ListLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
     ServiceID,
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 //
 This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack,
 options, "DisassociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }
```

```
 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
```

```
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
```

```
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource
 Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
```

```
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil
{
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack);
err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
```

```
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
```

```
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier
 that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}
```

```
type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return
 err
 }
```

```
if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return
err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
```

```
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
```

```
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide
 to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer
```

```
 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity
 *types.DatetimeRange

 // Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
```

```
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
 return fmt.Errorf("add
protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
```

```
 err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName:
 "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return
 err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack);
 err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "GetLicense",
 }
}
```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
   - ProductSKU
 //   - Status
 //   - Fingerprint
 //   - IssuerName
 //   - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
```

```
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack);
err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
 }
}
```

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```
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
        "smithy.api#error": "client"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
      "type": "structure",
      "members": {
        "DirectoryId": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation":
"<p>Details about an Active Directory identity provider.</p>"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
```

"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Associates the user to an EC2 instance to utilize user-based subscriptions. \n <note>\n Your estimated bill for charges on the number of users and related costs will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more information, see Viewing your\n monthly charges in the Amazon Web Services Billing User Guide. \n </note>",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/AssociateUser"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the

EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " The identity provider of the user. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
"type": "integer"
},
"com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request couldn't be completed because it conflicted with the current state of the\n resource. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider":

{
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deregisters the identity provider from providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/DeregisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",

```
            "traits": {
              "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "Product": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
        "type": "structure",
        "members": {
          "IdentityProviderSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
            "traits": {
              "smithy.api#documentation":
"<p>Metadata that describes the results of an identity provider operation.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
          },
```

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Disassociates the user from an EC2 instance providing user-based
subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/DisassociateUser"
            },
            "smithy.api#idempotent": {}
        }

    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation":
 "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
```

"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
}
},

"com.amazonaws.licensemanagerusersubscriptions#Filter": {
"type": "structure",
"members": {
"Attribute": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of an attribute to use as a filter. "
}
},
"Operation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of search (For example, eq, geq, leq) "
}
},
"Value": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Value of the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter name and value pair that is used
to return more specific results from a describe\n operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n attributes, or IDs. "
}

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    },
    "com.amazonaws.licensemanagerusersubscriptions#FilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
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    "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
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        "members": {
            "ActiveDirectoryIdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that details an Active Directory identity provider.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
 "<p>Details about an identity provider.</p>"
        }
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    "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
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        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Settings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
                "traits": {
                    "smithy.api#documentation": "<p>An object that details the registered identity providers product
related configuration\n      settings such as the subnets to provision VPC endpoints.</p>",
                    "smithy.api#required":
 {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
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"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of an identity provider. ",
"smithy.api#required": {}
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"FailureMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The failure message associated with an identity provider. "
}
}
},
"traits": {
"smithy.api#documentation":
" Describes an identity provider. "
}
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"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
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"com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
"type": "structure",
"members": {
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based
subscriptions. ",
"smithy.api#required": {}
}
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"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status
of an EC2 instance resource. ",
"smithy.api#required": {}
}
},
"Products": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
"traits": {
"smithy.api#documentation": " A list of provided user-based subscription products. ",

"smithy.api#required": {}
}
},
"LastStatusCheckDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date of the last status check. "
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for an EC2 instance. "
}

}
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"traits": {
"smithy.api#documentation": " Describes an EC2 instance providing user-based subscriptions. "
}
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"com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
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"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
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"InstanceId": {
"target": "smithy.api#String",
"traits":
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"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
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"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",

"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
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},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a user associated with an EC2 instance. ",
"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for users of an EC2 instance. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"AssociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was associated with an EC2 instance. "
}
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"DisassociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was disassociated from an EC2 instance. "
}
}

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"traits": {
"smithy.api#documentation": " Describes users of an EC2 instance providing user-based subscriptions. "
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"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
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    "com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
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        },
        "traits": {
            "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
            "smithy.api#error": "server"
        }
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    "com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
        "type": "service",

     "version": "2018-05-10",
        "operations": [
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                "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

},
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
            },
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                "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
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            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
            }
        ],
        "traits": {
            "aws.api#service": {
                "sdkId": "License Manager User Subscriptions",
                "arnNamespace": "license-manager-user-subscriptions",
                "cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
            },
            "aws.auth#sigv4": {
                "name": "license-manager-user-subscriptions"
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            "aws.protocols#restJson1": {},
            "smithy.api#cors": {
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                    "content-type",
                    "x-amz-content-sha256",
                    "x-amz-user-agent",
                    "x-amzn-platform-id",
                    "x-amzn-trace-id",
                    "content-length",
                    "x-api-key",
                    "authorization",
                    "x-amz-date",
                    "x-amz-security-token",
                    "Access-Control-Allow-Headers",
                    "Access-Control-Allow-Methods",
                    "Access-Control-Allow-Origin"
                ],
                "additionalExposedHeaders": [
                    "x-amzn-errortype",
                    "x-amzn-requestid",
                    "x-amzn-trace-id"

 ]
            },
            "smithy.api#documentation": "<p>With License Manager, you can create user-based subscriptions to
utilize licensed software with\n      a per user subscription fee on Amazon EC2 instances.</p>",
            "smithy.api#title": "AWS License Manager User Subscriptions",
            "smithy.rules#endpointRuleSet": {
                "version": "1.0",
                "parameters": {
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                        "builtIn": "AWS::Region",
                        "required": false,
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"documentation": "The AWS region used to dispatch the request.",
"type": "String"
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"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack
endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
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"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the
configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
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"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
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"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
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}
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{
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"argv": [
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"ref": "UseFIPS"

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                    },

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            "type": "error"
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"error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
            "type": "error"
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            "type": "endpoint"
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                                        "ref": "UseFIPS"
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                                "argv": [
                                    {
                                        "ref": "UseDualStack"

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                                    true
                                ]
                            }
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                        "type": "tree",
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                                "conditions": [
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"ref": "PartitionResult"
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"supportsFIPS"
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"argv": [
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"fn": "getAttr",
"argv": [
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"ref": "PartitionResult"
},
"supportsDualStack"
]
}
]
}
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"type": "tree",
"rules": [
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fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
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"type": "endpoint"
}
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"conditions": [],
"error": "FIPS and DualStack are enabled, but this partition does not support one or

both",
"type": "error"
}
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"argv": [
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"ref": "UseFIPS"
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{
"fn": "getAttr",
"argv": [
{
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},
"supportsFIPS"

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"properties": {},
"headers": {}

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            "type": "error"
          }
        ]
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        "conditions": [
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            "argv": [
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                "ref": "UseDualStack"
              },
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                "argv": [
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                      "argv": [
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                          "ref": "PartitionResult"
                        },
                        "supportsDualStack"
                      ]
                  }
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"type": "endpoint"
}
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},
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"conditions": [],
"error": "DualStack is enabled but this partition does
not support DualStack",
"type": "error"
}
]
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"conditions": [],
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"url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
}
]
},
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"conditions":
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"error": "Invalid Configuration: Missing Region",
"type": "error"
}
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},
"smithy.rules#endpointTests": {
"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {

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                "endpoint": {
                    "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": true
            }
        },
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            "documentation":
"For region us-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
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                "UseDualStack": false
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            "expect": {
                "endpoint": {
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                }
            },

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                "UseFIPS": false,
                "UseDualStack": true
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            "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
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                }
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            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
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"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with
FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
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"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
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"url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
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"params": {
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"params": {
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with FIPS disabled and DualStack disabled",
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"expect": {
"endpoint": {
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}
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"params": {
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"params": {
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"UseDualStack": false
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"url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
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"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
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"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect":
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"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
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"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"

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                    "UseDualStack":
true
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                    }
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                    }
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                "params": {
                    "Region": "us-isob-east-1",
                    "UseFIPS": true,
                    "UseDualStack": false
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            {
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"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
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"UseDualStack": true
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"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
}
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"expect": {
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"url": "https://example.com"
}
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"params": {
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"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
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"params": {
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"UseDualStack": false,

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            }
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            "expect": {
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                "UseDualStack": false,
                "Endpoint": "https://example.com"
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                "UseFIPS": false,
                "UseDualStack": true,
                "Endpoint": "https://example.com"
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        },
        {
            "documentation": "Missing region",
            "expect": {
                 "error": "Invalid Configuration: Missing Region"
            }
        }
    ],
    "version": "1.0"
  }
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
  },
  "errors": [
    {
```

"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the identity providers for user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/ListIdentityProviders"
},
"smithy.api#paginated":
{
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "IdentityProviderSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "smithy.api#String",

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            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
{
    "type": "structure",
    "members": {
        "IdentityProviderSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
                "smithy.api#required": {}
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
     },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
```

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            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/instance/ListInstances"
            },
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
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"type":
"structure",
"members": {
"InstanceSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list instances operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],

"traits": {
"smithy.api#documentation": " Lists the user-based subscription products available from an identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/ListProductSubscriptions"
},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "ProductUserSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
"type": "structure",
"members": {
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {

"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
"type": "structure",
"members": {
"ProductUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list product subscriptions operation. "
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"

```
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists user associations for an identity provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListUserAssociations"
            },
            "smithy.api#paginated":
{
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity
provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
```

"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
"type": "structure",
"members": {
"InstanceUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list user association operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
"type": "structure",
"members": {

"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider of the user. ",
"smithy.api#required": {}
}
},

"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}

},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a product for a user. ",
"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for a product for a user. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"SubscriptionStartDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The
start date of a subscription. "
}
},
"SubscriptionEndDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The end date of a subscription. "
}
}
},

```
    "traits": {
        "smithy.api#documentation": "<p>The summary of the user-based subscription products for a user.</p>"
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
    }
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
     },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
         },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Registers an identity provider for user-based subscriptions.</p>",
        "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/identity-provider/RegisterIdentityProvider"
        },
```

"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings such as the\n subnets to provision VPC endpoints. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
"type": "structure",
"members": {
"message": {

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            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The resource couldn't be found.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 404
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
        "type": "string",

    "traits": {
          "smithy.api#length": {
            "min": 5,
            "max": 200
          },
          "smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The request failed because a service quota is exceeded.</p>",
          "smithy.api#error": "client"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#Settings": {
        "type": "structure",
        "members": {
          "Subnets": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
            "traits": {
              "smithy.api#documentation":
  "<p>The subnets defined for the registered identity provider.</p>",
              "smithy.api#length": {
                "min": 1
              },
              "smithy.api#required": {}
            }
          },
          "SecurityGroupId": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
```

"traits": {
"smithy.api#documentation": " A security group ID that allows inbound TCP port 1688 communication between resources in\n your VPC and the VPC endpoint for activation servers. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings such as the\n subnets to provision VPC endpoints, and the security group ID that is associated with the VPC\n endpoints. The security group should permit inbound TCP port 1688 communication from resources\n in the VPC. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Starts a product subscription for a user with the specified identity provider. \n <note>\n Your estimated bill for charges on the number of users and related costs

will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing.
For more information, see Viewing your\n monthly charges in the Amazon Web Services Billing User Guide. \n </note>",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/StartProductSubscription"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider of the user. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
"type": "structure",
"members": {
"ProductUserSummary": {

"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the start product subscription operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Stops a product subscription for a user with the specified identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/StopProductSubscription"

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            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required":
{}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
        "type": "structure",
        "members": {
            "ProductUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
                "traits": {
                    "smithy.api#documentation":
"<p>Metadata that describes the start product subscription operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
```

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    },
    "com.amazonaws.licensemanagerusersubscriptions#StringList": {
        "type": "list",
        "member": {
            "target": "smithy.api#String"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Subnet": {
        "type": "string",
        "traits": {
            "smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Subnets": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
            "message": {

             "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request was denied because of request throttling. Retry the
request.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates additional product configuration settings for the registered
identity\n      provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/UpdateIdentityProviderSettings"
            },
            "smithy.api#idempotent": {}
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    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
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            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                 "traits": {
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "UpdateSettings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
                "traits": {
                    "smithy.api#documentation": "<p>Updates the registered identity providers product related
configuration settings. You can\n      update any combination of settings in a single operation such as the:</p>\n
<ul>\n            <li>\n                <p>Subnets which you want to add to provision VPC endpoints.</p>\n            </li>\n
            <li>\n                <p>Subnets which you want to remove the VPC endpoints from.</p>\n            </li>\n
<li>\n                <p>Security group ID which permits traffic to the VPC endpoints.</p>\n            </li>\n        </ul>",
                    "smithy.api#required": {}
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"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
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"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#required": {}
}
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"com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
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"members": {
"AddSubnets": {

"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets in which License Manager will create a VPC endpoint for products that\n require connectivity to activation servers. ",
"smithy.api#required": {}
}
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"RemoveSubnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets to remove. ",
"smithy.api#required": {}
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"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID that allows inbound TCP port 1688 communication between resources in\n your VPC and the VPC endpoints for activation servers. "
}
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"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings such as\n the subnets to provision VPC endpoints. "
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"com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {

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                "target": "smithy.api#String"
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        "traits": {
            "smithy.api#documentation": "<p>A parameter is not valid.</p>",
            "smithy.api#error": "client"
        }
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            "namespace": "*"
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            "id": "HttpHeaderTrait",
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            "id": "HttpUriConflict",
            "namespace": "*"
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            "id": "Service",
            "namespace": "*"
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  "shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
        "type": "service",
        "version": "2018-08-01",
        "operations": [
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"target": "com.amazonaws.licensemanager#CheckInLicense"
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"target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
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"target": "com.amazonaws.licensemanager#CheckoutLicense"
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"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
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"target": "com.amazonaws.licensemanager#CreateToken"
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"target": "com.amazonaws.licensemanager#DeleteToken"

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      "target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

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      "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
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      "target": "com.amazonaws.licensemanager#GetLicenseUsage"
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      "target": "com.amazonaws.licensemanager#GetServiceSettings"
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      "target": "com.amazonaws.licensemanager#ListDistributedGrants"
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      "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
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      "target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
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      "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
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"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
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"target": "com.amazonaws.licensemanager#TagResource"
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"target": "com.amazonaws.licensemanager#UntagResource"
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"target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
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{
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
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"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
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"target": "com.amazonaws.licensemanager#UpdateServiceSettings"
}
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"traits": {
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"arnNamespace": "license-manager",
"cloudFormationName": "LicenseManager",
"cloudTrailEventSource": "licensemanager.amazonaws.com",
"endpointPrefix": "license-manager"
},
"aws.auth#sigv4": {
"name": "license-manager"
},
"aws.protocols#awsJson1_1": {},
"smithy.api#documentation": " License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers. ",
"smithy.api#title": "AWS License Manager",
"smithy.api#xmlNamespace": {
"uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
},
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
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"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
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"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send

this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
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"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
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"argv": [
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"ref": "Endpoint"
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"argv": [
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"type": "error"
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"argv": [
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  "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
  "type": "error"
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]
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"headers": {}

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"type": "endpoint"
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"type": "error"
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"conditions": [
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"argv": [
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                      "headers": {}
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                    "type": "endpoint"
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                "conditions": [],
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partition does not support FIPS",
                "type": "error"
              }
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            "conditions": [
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"supportsDualStack"

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manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
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                "type": "error"
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    "type": "error"
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"smithy.rules#endpointTests": {
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      "params": {
        "Region": "af-south-1",
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      "documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
            "url": "https://license-manager.ap-east-1.amazonaws.com"
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      "params": {
        "Region": "ap-east-1",
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"UseDualStack": false
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"documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",
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"params": {
"Region": "ap-northeast-1",
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"endpoint": {
"url": "https://license-manager.ap-northeast-2.amazonaws.com"
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"params": {
"Region": "ap-northeast-2",
"UseFIPS": false,
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"documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-northeast-3.amazonaws.com"
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"params": {
"Region": "ap-northeast-3",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
"expect": {
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        "params": {
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            "UseFIPS": false,
            "UseDualStack": false
        }
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"documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
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        "params": {
            "Region": "ap-southeast-3",
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            "UseDualStack": false
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                "UseDualStack": false
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                "UseDualStack": false
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                    "UseDualStack": false
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                "params": {
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        "UseDualStack": false
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                "UseDualStack": false
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              "expect": {
                "endpoint": {
                  "url": "https://license-manager.sa-east-1.amazonaws.com"
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"params": {
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"UseDualStack": false
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"params": {

"Region": "us-east-1",
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"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url":
"https://license-manager.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-northwest-1",
"UseFIPS": false,
"UseDualStack": false

}
},
{

"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},

{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",

"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-gov-west-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-west-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation":
"For region us-gov-west-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-west-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {

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                "url": "https://license-manager-fips.us-gov-east-1.api.aws"
            }
        },

    "params": {
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            "UseFIPS": true,
            "UseDualStack": true
        }
    },
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        "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.us-gov-east-1.api.aws"
            }
        },
        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
            "UseDualStack": true
        }
    },
    {
        "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack
disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
            }
        },
        "params": {
            "Region": "us-iso-east-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
        "expect": {
            "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
        },
        "params": {
            "Region": "us-iso-east-1",
            "UseFIPS": true,
             "UseDualStack": true
        }
    },
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{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled
but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},

{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true

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                }
            },
            {
                "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
                "expect": {
                    "endpoint": {
                        "url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
                    }
                },

        "params": {
                    "Region": "us-isob-east-1",
                    "UseFIPS": true,
                    "UseDualStack": false
                }
            },
            {
                "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
                "expect": {
                    "error": "DualStack is enabled but this partition does not support DualStack"
                },
                "params": {
                    "Region": "us-isob-east-1",
                    "UseFIPS": false,
                    "UseDualStack": true
                }
            },
            {
                "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

    "expect": {
                    "endpoint": {
                        "url": "https://example.com"
                    }
                },
                "params": {
                    "Region": "us-east-1",
                    "UseFIPS": false,
                    "UseDualStack": false,
                    "Endpoint": "https://example.com"
                }
            },
            {
                "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",
                "expect": {
                    "endpoint": {
                        "url": "https://example.com"
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                }
            },
            "params": {
                "UseFIPS": false,

    "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips enabled and dualstack disabled",
            "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips disabled and dualstack enabled",
            "expect": {
                "error":
"Invalid Configuration: Dualstack and custom endpoint are not supported"
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "Missing region",
            "expect": {
                "error": "Invalid Configuration: Missing Region"
            }
        }
    ],
    "version": "1.0"
  }
}
},
"com.amazonaws.licensemanager#AcceptGrant": {
  "type": "operation",
  "input": {
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"target": "com.amazonaws.licensemanager#AcceptGrantRequest"

},
"output": {
"target": "com.amazonaws.licensemanager#AcceptGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"

}
],
"traits": {
"smithy.api#documentation": " Accepts the specified grant. "
}
},
"com.amazonaws.licensemanager#AcceptGrantRequest": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}

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    },
    "com.amazonaws.licensemanager#AcceptGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant
ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#AccessDeniedException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {

  "code": "ServiceAccessDenied",
                "httpResponseCode": 401
            },
            "smithy.api#documentation": "<p>Access to resource denied.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 401
        }
    },
    "com.amazonaws.licensemanager#ActivationOverrideBehavior": {
        "type": "enum",
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        "members": {
          "DISTRIBUTED_GRANTS_ONLY": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
            }
          },
          "ALL_GRANTS_PERMITTED_BY_ISSUER": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#AllowedOperation": {

      "type": "enum",
        "members": {
          "CREATE_GRANT": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CreateGrant"
            }
          },
          "CHECKOUT_LICENSE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CheckoutLicense"
            }
          },
          "CHECKOUT_BORROW_LICENSE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CheckoutBorrowLicense"
            }
          },
          "CHECK_IN_LICENSE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CheckInLicense"
            }
          },
          "EXTEND_CONSUMPTION_LICENSE":
{
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ExtendConsumptionLicense"
```

```
            }
        },
        "LIST_PURCHASED_LICENSES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "ListPurchasedLicenses"
            }
        },
        "CREATE_TOKEN": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "CreateToken"
            }
        }
    }
},
"com.amazonaws.licensemanager#AllowedOperationList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#AllowedOperation"
    },
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max":
7
        }
    }
},
"com.amazonaws.licensemanager#Arn": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 2048
        },
        "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-
z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
    }
},
"com.amazonaws.licensemanager#ArnList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Arn"
    }
},
"com.amazonaws.licensemanager#AuthorizationException": {
    "type": "structure",
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"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError":
{
"code": "AuthorizationFailure",
"httpResponseCode": 403
},
"smithy.api#documentation": " The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n policy associated with this account. ",
"smithy.api#error": "client",
"smithy.api#httpError": 403
}
},
"com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
"type": "structure",
"members": {
"LastRunTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time that automated discovery last ran. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes automated discovery. "
}
},

"com.amazonaws.licensemanager#Boolean": {
"type": "boolean",
"traits": {
"smithy.api#default": false
}
},
"com.amazonaws.licensemanager#BorrowConfiguration": {
"type": "structure",
"members": {
"AllowEarlyCheckIn": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether early check-ins are allowed. ",
"smithy.api#required": {}
}
},

"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the borrow configuration, in minutes. ",
"smithy.api#required": {}
}
}

},
"traits": {
"smithy.api#documentation": " Details about a borrow configuration. "
}
},
"com.amazonaws.licensemanager#BoxBoolean": {
"type": "boolean"
},
"com.amazonaws.licensemanager#BoxInteger": {
"type": "integer"
},
"com.amazonaws.licensemanager#BoxLong": {
"type": "long"
},
"com.amazonaws.licensemanager#CheckInLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"

},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{

"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks in the specified license. Check in a license when it is no longer in use. "
}
},
"com.amazonaws.licensemanager#CheckInLicenseRequest": {
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CheckInLicenseResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"

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        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members":
```

{
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The license must use the borrow consumption configuration. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. Partial checkouts are not supported. ",
"smithy.api#required": {}
}
},
"DigitalSignatureMethod": {
"target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
"traits": {
"smithy.api#documentation": " Digital signature method. The possible value is JSON Web Signature (JWS) algorithm PS384.\n For more information, see RFC 7518 Digital Signature with RSASSA-PSS. ",
"smithy.api#required": {}
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}

```
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>"
                }
            },
            "EntitlementsAllowed":
{
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "SignedToken": {
                "target": "com.amazonaws.licensemanager#SignedToken",
                "traits": {
                    "smithy.api#documentation": "<p>Signed token.</p>"
                }
            },
            "IssuedAt": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license checkout
is issued.</p>"
                }
            },
            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
                }
```

```
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target":
"com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license.</p>\n        <note>\n            <p>If the account that created the license is the same that is performing the check out, you must\n            specify the account as the beneficiary.</p>\n        </note>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutLicenseRequest": {
        "type": "structure",
        "members": {
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "CheckoutType": {
                "target": "com.amazonaws.licensemanager#CheckoutType",
                "traits": {
                    "smithy.api#documentation": "<p>Checkout type.</p>",
                    "smithy.api#required": {}
                }
            },
            "KeyFingerprint": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Key fingerprint identifying the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",

    "smithy.api#required": {}
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
```

idempotency of the request. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
"type": "structure",
"members": {
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " Allowed license entitlements. "
}
},
"SignedToken": {
"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}

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            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "IssuedAt": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
                }
            },
            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and
time at which the license checkout expires.</p>"
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutType": {
        "type": "enum",
        "members": {
            "PROVISIONAL": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PROVISIONAL"
                }
            },
            "PERPETUAL": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PERPETUAL"
                }
             }
        }
    },
```

"com.amazonaws.licensemanager#ClientRequestToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 36
}
}
},
"com.amazonaws.licensemanager#ClientToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#ConflictException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ConflictException",
"httpResponseCode":
409
},
"smithy.api#documentation": " There was a conflict processing the request. Try your request again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 409
}
},
"com.amazonaws.licensemanager#ConsumedLicenseSummary": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Resource type of the resource consuming a license. "
}
},
"ConsumedLicenses": {

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            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
            }
        }
    },

"traits": {
        "smithy.api#documentation": "<p>Details about license consumption.</p>"
    }
  },
  "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
    }
  },
  "com.amazonaws.licensemanager#ConsumptionConfiguration": {
    "type": "structure",
    "members": {
        "RenewType": {
            "target": "com.amazonaws.licensemanager#RenewType",
            "traits": {
                "smithy.api#documentation": "<p>Renewal frequency.</p>"
            }
        },
        "ProvisionalConfiguration": {
            "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
             }
        },
        "BorrowConfiguration": {
            "target": "com.amazonaws.licensemanager#BorrowConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
    }
  },
  "com.amazonaws.licensemanager#CreateGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateGrantRequest"
    },
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"output": {
"target": "com.amazonaws.licensemanager#CreateGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target":
"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a grant for the specified license. A grant shares the use of license\n entitlements with a specific Amazon Web Services account, an organization, or an\n organizational unit (OU). For more
information, see Granted licenses in License Manager in the License Manager User Guide. "
}
},
"com.amazonaws.licensemanager#CreateGrantRequest": {
"type": "structure",
"members": {
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}

}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Principals": {
"target": "com.amazonaws.licensemanager#PrincipalArnList",
"traits": {
"smithy.api#documentation": " The grant principals. You can specify one of the following as an Amazon Resource Name\n (ARN): \n \n \n An Amazon Web Services account, which includes only the account specified. \n \n \n \n \n An organizational unit (OU), which includes all accounts in the OU. \n \n \n \n \n An organization, which will include all accounts across your organization. \n \n ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},

"com.amazonaws.licensemanager#CreateGrantResponse": {
"type": "structure",

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        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Grant version.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CreateGrantVersion":
{
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
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            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information, see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",

    "smithy.api#required": {}
                }
            },
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>"
                }
            },
            "AllowedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
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            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "StatusReason": {
            "target": "com.amazonaws.licensemanager#StatusReasonMessage",
            "traits": {
                "smithy.api#documentation": "<p>Grant status reason.</p>"
            }
        },
        "SourceVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Current version of the grant.</p>"
            }
        },
        "Options": {
            "target": "com.amazonaws.licensemanager#Options",
            "traits": {
                "smithy.api#documentation": "<p>The options specified for the grant.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>New version of the grant.</p>"
            }
        }
```

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        },
        "traits":
{
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
             },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
```

```
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
           },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Creates a license configuration.</p>\n        <p>A license configuration is an abstraction of a customer license agreement that can be\n        consumed and enforced by License Manager. Components include specifications for the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n        Dedicated Instance, Dedicated Host, or
 all of these), license affinity  to host (how long a \n        license must be associated with a host), and the number of licenses purchased and used.</p>"
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Name of the license configuration.</p>",
              "smithy.api#required": {}
            }
          },
          "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
          },
          "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
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"traits": {
"smithy.api#documentation": " Dimension used to track the license inventory. ",
"smithy.api#required": {}
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows. \n \n \n \n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n <code>licenseAffinityToHost</code> |\n <code>maximumCores</code> | <code>minimumCores</code>\n \n \n \n \n <code>Instances</code> dimension: <code>allowedTenancy</code> | \n <code>maximumCores</code> | <code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n
\n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n <code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code>\n \n \n \n \n <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n <code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>. "
}
},

"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the license configuration. "

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                }
            },
            "DisassociateWhenNotFound": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
                }
            },
            "ProductInformationList": {
                "target": "com.amazonaws.licensemanager#ProductInformationList",
                "traits": {
                    "smithy.api#documentation": "<p>Product information.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse":
 {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
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"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a new license conversion task. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {

"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource you are converting the license type for. ",
"smithy.api#required": {}
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting from. \n\n For the structure of the source license, see Convert a license type using the CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
},
"DestinationLicenseContext":
{
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting to. For the structure of the destination license, see Convert a license type using the CLI in

the License Manager User Guide. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

"traits": {
"smithy.api#documentation": " The ID of the created license type conversion task. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},

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            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "ReportGeneratorName":
 {
                "target": "com.amazonaws.licensemanager#ReportGeneratorName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>",
                    "smithy.api#required": {}
                }
            },
            "Type": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports to generate. The following report types an be
generated:</p>\n        <ul>\n            <li>\n                <p>License configuration report - Reports the number and
details of consumed licenses for a license configuration.</p>\n            </li>\n            <li>\n                <p>Resource
report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n            </li>\n
</ul>",
                    "smithy.api#required": {}

        }
            },
            "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
                    "smithy.api#documentation": "<p>Defines the type of license configuration the report generator
tracks.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportFrequency": {
                "target": "com.amazonaws.licensemanager#ReportFrequency",
                "traits": {
```

"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the new report generator. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseRequest": {
"type": "structure",

"members": {
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product
name. ",
"smithy.api#required": {}
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits": {
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region for the license. ",
"smithy.api#required": {}

}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-
UTC format. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",

"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}

```
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        },
        "Version": {
             "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
         },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
```

```
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target":
"com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product name.</p>",
                    "smithy.api#required": {}
                }
            },
            "Issuer": {
                "target": "com.amazonaws.licensemanager#Issuer",
                "traits":
{
                    "smithy.api#documentation": "<p>License issuer.</p>",
                    "smithy.api#required": {}
                }
            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Home Region of the license.</p>",
                    "smithy.api#required": {}
                }
            },
```

"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},

"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Current version of the license. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New version of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
}
},
"traits": {
"smithy.api#output":
{}
}
},
"com.amazonaws.licensemanager#CreateToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"

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            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },

        {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a long-lived token.</p>\n        <p>A refresh token is a JWT token used to get an access token. With an access token,\n        you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n        call License Manager to manage the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateTokenRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits":
 {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n        JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "RoleArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n        License Manager does not check whether the roles are in use.</p>"
                }
```

```
            },
            "ExpirationInDays": {
                "target": "com.amazonaws.licensemanager#Integer",
                "traits": {
                    "smithy.api#documentation": "<p>Token expiration, in days, counted from token creation. The
default is 365 days.</p>"
                }
            },
            "TokenProperties": {
                 "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Data specified by the caller to be included in the JWT token. The
data is mapped\n          to the amr claim of the JWT token.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Idempotency token, valid for 10 minutes.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateTokenResponse": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",

                 "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
            "TokenType": {
                "target": "com.amazonaws.licensemanager#TokenType",
                "traits": {
                    "smithy.api#documentation": "<p>Token type.</p>"
                }
            },
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
                }
```

```
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#DateTime": {
    "type": "timestamp"
},
"com.amazonaws.licensemanager#DatetimeRange": {
    "type": "structure",
    "members": {
        "Begin": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Start of the time range.</p>",
                "smithy.api#required": {}
            }
        },
        "End": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>End of the time range.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
    }
},
"com.amazonaws.licensemanager#DeleteGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
```

```
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes
the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the
grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteGrantResponse": {
```

```
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation":
"<p>Grant version.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#DeleteLicense": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license configuration. \n You cannot delete a license configuration that is in use. "
}

```
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
      "type": "structure",
      "members":
{
        "LicenseConfigurationArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>ID of the license configuration.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
       },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
```

```
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
             }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified report generator.</p>\n        <p>This action
deletes the report generator, which stops it from generating future reports.\n        The action cannot be reversed. It
has no effect on the previous reports from this generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to be
deleted.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {

 "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
```

```
            }
          },
          "SourceVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Current version of the license.</p>",
              "smithy.api#required":
{}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#DeleteLicenseResponse": {
        "type": "structure",
        "members": {
          "Status": {
            "target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
            "traits": {
              "smithy.api#documentation": "<p>License status.</p>"
            }
          },
          "DeletionDate": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Date when the license is deleted.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#DeleteToken": {
        "type": "operation",
         "input": {
          "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
```

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},

{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified token. Must be called in the license home Region. "
}
},
"com.amazonaws.licensemanager#DeleteTokenRequest": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteTokenResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}

}
},
"com.amazonaws.licensemanager#DigitalSignatureMethod": {

"type": "enum",
"members": {
"JWT_PS384": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "JWT_PS384"
}
}
}
},
"com.amazonaws.licensemanager#Entitlement": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement resource. Use only
if the unit is None. "
}
},
"MaxCount": {
"target": "com.amazonaws.licensemanager#Long",
"traits": {
"smithy.api#documentation": " Maximum entitlement count. Use if the unit is not None. "
}
},
"Overage": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether overages are allowed. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementUnit",
"traits": {
"smithy.api#documentation": " Entitlement unit. ",
"smithy.api#required": {}
}
},
"AllowCheckIn": {
"target":

"com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": " Indicates whether check-ins are allowed. "
            }
        }
    },
    "traits": {
        "smithy.api#documentation": " Describes a resource entitled for use with a license. "
    }
},
"com.amazonaws.licensemanager#EntitlementData": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": " Entitlement data name. ",
                "smithy.api#required": {}
            }
        },
        "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": " Entitlement
data value. "
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
                "smithy.api#documentation": " Entitlement data unit. ",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": " Data associated with an entitlement resource. "
    }
},
"com.amazonaws.licensemanager#EntitlementDataList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#EntitlementData"
    }
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
    "type": "enum",
    "members": {

"COUNT": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Count"
}
},
"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"SECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Seconds"
}
},
"MICROSECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Microseconds"
}
},
"MILLISECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Milliseconds"
}
},
"BYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes"
}
},
"KILOBYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes"
}
},
"MEGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes"
}

```
        },
        "GIGABYTES": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Gigabytes"
          }
        },
        "TERABYTES": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Terabytes"
          }
        },
        "BITS":
{
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Bits"
          }
        },
        "KILOBITS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Kilobits"
          }
        },
        "MEGABITS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Megabits"
          }
        },
        "GIGABITS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Gigabits"
          }
        },
        "TERABITS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Terabits"

    }
        },
        "PERCENT": {
          "target": "smithy.api#Unit",
          "traits": {
```

```
        "smithy.api#enumValue": "Percent"
    }
},
"BYTES_PER_SECOND": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Bytes/Second"
    }
},
"KILOBYTES_PER_SECOND": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Kilobytes/Second"
    }
},
"MEGABYTES_PER_SECOND": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Megabytes/Second"
    }
},
"GIGABYTES_PER_SECOND": {
    "target": "smithy.api#Unit",
     "traits": {
        "smithy.api#enumValue": "Gigabytes/Second"
    }
},
"TERABYTES_PER_SECOND": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Terabytes/Second"
    }
},
"BITS_PER_SECOND": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Bits/Second"
    }
},
"KILOBITS_PER_SECOND": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Kilobits/Second"
    }
},
"MEGABITS_PER_SECOND": {
    "target": "smithy.api#Unit",
    "traits": {
```

"smithy.api#enumValue":
"Megabits/Second"
}
},
"GIGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits/Second"
}
},
"TERABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits/Second"
}
},
"COUNT_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count/Second"
}
}
}
},
"com.amazonaws.licensemanager#EntitlementList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Entitlement"
}
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The entitlement is not allowed. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#EntitlementUnit": {
"type": "enum",
"members": {
"COUNT": {

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            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Count"
            }
        },
        "NONE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "None"
            }
        },
        "SECONDS":
{
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Seconds"
            }
        },
        "MICROSECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Microseconds"
            }
        },
        "MILLISECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Milliseconds"
            }
        },
        "BYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bytes"
            }
        },
        "KILOBYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes"
             }
        },
        "MEGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes"
            }
        },
```

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"GIGABYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Gigabytes"
    }
},
"TERABYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Terabytes"
    }
},
"BITS": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Bits"
    }
},
"KILOBITS": {
    "target": "smithy.api#Unit",
    "traits": {

     "smithy.api#enumValue": "Kilobits"
    }
},
"MEGABITS": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Megabits"
    }
},
"GIGABITS": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Gigabits"
    }
},
"TERABITS": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Terabits"
    }
},
"PERCENT": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Percent"
    }
```

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        },
        "BYTES_PER_SECOND": {
          "target":
"smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Bytes/Second"
          }
        },
        "KILOBYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Kilobytes/Second"
          }
        },
        "MEGABYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Megabytes/Second"
          }
        },
        "GIGABYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Gigabytes/Second"
          }
        },
        "TERABYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {

"smithy.api#enumValue": "Terabytes/Second"
          }
        },
        "BITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Bits/Second"
          }
        },
        "KILOBITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Kilobits/Second"
          }
        },
        "MEGABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
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"smithy.api#enumValue": "Megabits/Second"
}
},
"GIGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits/Second"
}
},

"TERABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits/Second"
}
},
"COUNT_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count/Second"
}
}
}
},
"com.amazonaws.licensemanager#EntitlementUsage": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement usage name. ",
"smithy.api#required": {}
}
},
"ConsumedValue": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Resource usage consumed. ",
"smithy.api#required": {}
}
},
"MaxCount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Maximum entitlement usage count. "
}
},

```
            "Unit": {
                "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementUsageList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
```

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}

  }
            },
            "DryRun": {
                "target": "com.amazonaws.licensemanager#Boolean",
                "traits": {
                    "smithy.api#default": false,
                    "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>"
                }
            },

            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
                }
            }
        },
        "traits": {
```

"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#FailedDependencyException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
},
"ErrorCode": {
"target": "com.amazonaws.licensemanager#String"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FailedDependency",
"httpResponseCode": 424
},
"smithy.api#documentation":
" A dependency required to run the API is missing. ",
"smithy.api#error": "client",
"smithy.api#httpError": 424
}
},
"com.amazonaws.licensemanager#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#FilterName",
"traits": {
"smithy.api#documentation": " Name of the filter. Filter names are case-sensitive. "
}
},
"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " The value of the filter, which is case-sensitive. You can only
specify one value for the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter
name and value pair that is used to return more specific results from a\n describe operation. Filters can be used
to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {

```
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "FilterLimitExceeded",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#FilterList": {
    "type": "list",
     "member": {
        "target": "com.amazonaws.licensemanager#Filter"
    }
},
"com.amazonaws.licensemanager#FilterName": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#FilterValue",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#Filters": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Filter",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#GetAccessToken": {
    "type": "operation",
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"input": {
"target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access
tokens\n are valid for one hour. "
}
},
"com.amazonaws.licensemanager#GetAccessTokenRequest": {
"type": "structure",
"members": {
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token, encoded as a JWT token. ",
"smithy.api#required": {}
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Token properties to validate against those present in the JWT token. "
}
}
},
"traits": {

```
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenResponse":
{
        "type": "structure",
        "members": {
            "AccessToken": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Temporary access token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"

        },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
```

```
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
                "smithy.api#documentation": "<p>Grant details.</p>"
            }
        }
    },
    "traits": {

"smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
```

"target": "com.amazonaws.licensemanager#GetLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"

},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},

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            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license
configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits":
 {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            },
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>"
                 }
            },
            "Description": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension for which the licenses are counted. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",

"traits": {
"smithy.api#documentation": " Number of available licenses. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Sets the number of available licenses as a hard limit. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses assigned to resources. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License configuration status. "
}

},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the owner of the license configuration. "
}

```
            },
            "ConsumedLicenseSummaryList": {
                "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>Summaries of the licenses consumed by resources.</p>"
                }
            },
            "ManagedResourceSummaryList": {
                "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>Summaries of the managed resources.</p>"
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                 "traits": {
                    "smithy.api#documentation": "<p>Tags for the license configuration.</p>"
                }
            },
            "ProductInformationList": {
                "target": "com.amazonaws.licensemanager#ProductInformationList",
                "traits": {
                    "smithy.api#documentation": "<p>Product information.</p>"
                }
            },
            "AutomatedDiscoveryInformation": {
                "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
                "traits": {
                    "smithy.api#documentation": "<p>Automated discovery information.</p>"
                }
            },
            "DisassociateWhenNotFound": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>When
true, disassociates a resource when software is uninstalled.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConversionTask": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
        },
```

"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified license type conversion task. "
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task. "

```
            }
        },
        "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the resources the license
conversion task is associated with.</p>"
            }
        },
        "SourceLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information
 about the license type converted from.</p>"
            }
        },
        "DestinationLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license type converted to.</p>"
            }
        },
        "StatusMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
            "traits": {
                "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
            }
        },

  "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
            }
        },
        "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
            }
        },
        "EndTime": {
```

"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was completed. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {

"smithy.api#documentation": " Gets information about the specified report generator. "
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. ",
"smithy.api#required":
{}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"ReportGenerator": {
"target": "com.amazonaws.licensemanager#ReportGenerator",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic reports about your license configurations. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

```
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#GetLicenseResponse": {
    "type": "structure",
    "members": {
        "License": {
            "target": "com.amazonaws.licensemanager#License",
            "traits": {
                "smithy.api#documentation": "<p>License details.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},

"com.amazonaws.licensemanager#GetLicenseUsage": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
```

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the usage of the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseUsageRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseUsageResponse": {
"type": "structure",
"members": {
"LicenseUsage": {
"target":
"com.amazonaws.licensemanager#LicenseUsage",
"traits": {
"smithy.api#documentation": " License usage details. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets the License Manager settings for the current Region. "
}
},
"com.amazonaws.licensemanager#GetServiceSettingsRequest": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Regional S3 bucket path for storing reports, license trail event data, discovery data,\n and so on. "

}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " SNS topic configured to receive notifications from License Manager. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Indicates whether Organizations is integrated with License Manager for\n cross-account discovery. "
}
},

"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether cross-account discovery is enabled. "
}

},
"LicenseManagerResourceShareArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource share. The License Manager management account \n provides member accounts with access to this share. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#Grant": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"ParentArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Parent ARN. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. ",

"smithy.api#required": {}
}
},
"GranteePrincipalArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {

"smithy.api#documentation": " The grantee principal ARN. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. ",
"smithy.api#required": {}
}
},
"GrantedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Granted operations. ",
"smithy.api#required": {}
}
},
"Options": {
"target": "com.amazonaws.licensemanager#Options",
"traits": {

"smithy.api#documentation": " The options specified for the grant. "
}
}
},
"traits": {
"smithy.api#documentation":
" Describes a grant. "
}
},
"com.amazonaws.licensemanager#GrantList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Grant"
}
},
"com.amazonaws.licensemanager#GrantStatus": {
"type": "enum",
"members": {
"PENDING_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_WORKFLOW"
}
},
"PENDING_ACCEPT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_ACCEPT"
}
},
"REJECTED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REJECTED"

}
},
"ACTIVE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ACTIVE"
}
},
"FAILED_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "FAILED_WORKFLOW"
}

```
            },
            "DELETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DELETED"
                }
            },
            "PENDING_DELETE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_DELETE"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                "traits":
{
                    "smithy.api#enumValue": "DISABLED"
                }
            },
            "WORKFLOW_COMPLETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "WORKFLOW_COMPLETED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GrantedLicense": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>"
                }

  },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product name.</p>"
```

```
            }
        },
        "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product SKU.</p>"
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>Granted license issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the granted license.</p>"

         }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>Granted license status.</p>"
            }
        },
        "Validity": {
            "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {
                "smithy.api#documentation": "<p>Date and time range during which the granted license is valid, in
ISO8601-UTC format.</p>"
            }
        },
        "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Granted license beneficiary.</p>"
            }
        },
        "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
             "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>"
            }
        },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
            }
        },
        "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
                "smithy.api#documentation": "<p>Granted license metadata.</p>"
            }
        },
        "CreateTime": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Creation time of the granted license.</p>"

  }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Version of the granted license.</p>"
            }
        },
        "ReceivedMetadata": {
            "target": "com.amazonaws.licensemanager#ReceivedMetadata",
            "traits": {
                "smithy.api#documentation": "<p>Granted license received metadata.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes a license that is granted to a grantee.</p>"
    }
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#GrantedLicense"
    }
},
"com.amazonaws.licensemanager#ISO8601DateTime":
{
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 50
        },
```

"smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
}
},
"com.amazonaws.licensemanager#Integer": {
"type": "integer"
},
"com.amazonaws.licensemanager#InvalidParameterValueException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidParameterValueProvided",
"httpResponseCode": 400
},
"smithy.api#documentation":
" One or more parameter values are not valid. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#InvalidResourceStateException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidResourceState",
"httpResponseCode": 400
},
"smithy.api#documentation": " License Manager cannot allocate a license to a resource because of its state. \n For example, you cannot allocate a license to an instance in the process of shutting\n down. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},

"com.amazonaws.licensemanager#InventoryFilter": {
"type": "structure",
"members": {

```
        "Name": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Name of the filter.</p>",
            "smithy.api#required": {}
          }
        },
        "Condition": {
          "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
          "traits": {
            "smithy.api#documentation": "<p>Condition of the filter.</p>",
            "smithy.api#required": {}
          }
        },
        "Value": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Value of the filter.</p>"
          }
        }

    },
      "traits": {
        "smithy.api#documentation": "<p>An inventory filter.</p>"
      }
    },
    "com.amazonaws.licensemanager#InventoryFilterCondition": {
      "type": "enum",
      "members": {
        "EQUALS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "EQUALS"
          }
        },
        "NOT_EQUALS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "NOT_EQUALS"
          }
        },
        "BEGINS_WITH": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "BEGINS_WITH"
          }
        },
        "CONTAINS": {
```

"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CONTAINS"
}
}
}
},
"com.amazonaws.licensemanager#InventoryFilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#InventoryFilter"
}
},
"com.amazonaws.licensemanager#Issuer": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. ",
"smithy.api#required": {}
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage
of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about the issuer of a license. "
}
},
"com.amazonaws.licensemanager#IssuerDetails": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. "
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer key fingerprint. "
}
}
},
"traits": {
"smithy.api#documentation": " Details associated with the issuer of a license. "
}
},
"com.amazonaws.licensemanager#License": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " License name. "
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " License issuer. "

```
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

        "smithy.api#documentation": "<p>Home Region of the license.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        },
        "Validity": {
            "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {
                "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>"
            }
        },
        "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License beneficiary.</p>"
            }
        },
        "Entitlements": {

    "target": "com.amazonaws.licensemanager#EntitlementList",
            "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>"
            }
        },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
            }
        },
        "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
                "smithy.api#documentation": "<p>License metadata.</p>"
            }
        },
        "CreateTime": {
```

"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License
creation time. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#documentation": " Software license that is managed in License Manager. "
}
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
"type": "structure",
"members": {
"LicenseConfigurationId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Unique ID of the license configuration. "
}
},
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension to use to track the license inventory. "

```
            }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules.</p>"
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Number of available licenses as a hard limit.</p>"
            }
        },
        "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses consumed. </p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Status of the license configuration.</p>"
            }
        },
        "OwnerAccountId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Account ID of the license configuration's owner.</p>"

        }
        },
        "ConsumedLicenseSummaryList": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
```

"traits": {
"smithy.api#documentation": " Summaries for licenses consumed by various resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {

"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},

"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource consuming licenses. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " Time when the license configuration was associated with the resource. "
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an association with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
}
},
"com.amazonaws.licensemanager#LicenseConfigurationStatus": {
"type": "enum",
"members":
{
"AVAILABLE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "AVAILABLE"
}
},
"DISABLED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DISABLED"
}
}

```
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits":
{
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceStatus": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Status of the resource.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
                }
            },
            "AssociationTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time when the license configuration was initially associated with
the resource.</p>"
                }
            },

    "ConsumedLicenses": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about the usage of a resource associated with a license
configuration.</p>"
```

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        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurations": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfiguration"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionContext": {

  "type": "structure",
        "members": {
            "UsageOperation": {
                "target": "com.amazonaws.licensemanager#UsageOperation",
                "traits": {
                    "smithy.api#documentation": "<p>The Usage operation value that corresponds to the license type you
are converting your resource from.  For more information about which platforms correspond to which usage
operation values see <a href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-
fields.html#billing-info\">Sample data: usage operation by platform\n      </a>\n         </p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTask": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {

       "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the license type conversion task.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource associated
with the license type\n         conversion task.</p>"
                }
```

```
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license type this conversion task converted
from.</p>"
                }
            },
            "DestinationLicenseContext": {
                "target":
 "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license type this conversion task converted
to.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
                "traits": {
                    "smithy.api#documentation": "<p>The status of the conversion task.</p>"
                }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
                }
            },
            "StartTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation":
 "<p>The time the conversion task was started at.</p>"
                }
            },
            "LicenseConversionTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>The time the usage operation value of the resource was
changed.</p>"
                }
            },
            "EndTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
                }
            }
```

```
        },
        "traits": {
            "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTaskId": {
        "type": "string",
        "traits": {

       "smithy.api#length": {
                "min": 0,
                "max": 50
            },
            "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
        "type": "enum",
        "members": {
            "IN_PROGRESS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "IN_PROGRESS"
                }
            },
            "SUCCEEDED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "SUCCEEDED"
                }
            },
            "FAILED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "FAILED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTasks":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTask"
        }
    },
    "com.amazonaws.licensemanager#LicenseCountingType": {
        "type": "enum",
```

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    "members": {
      "VCPU": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "vCPU"
        }
      },
      "INSTANCE": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "Instance"
        }
      },
      "CORE": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "Core"
        }
      },
      "SOCKET": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "Socket"
        }
      }
    }
  },
  "com.amazonaws.licensemanager#LicenseDeletionStatus": {
    "type": "enum",
    "members": {
      "PENDING_DELETE": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "PENDING_DELETE"
        }
      },
      "DELETED": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "DELETED"
        }
      }
    }
  },
  "com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
      "target": "com.amazonaws.licensemanager#License"
```

```
        }
    },
    "com.amazonaws.licensemanager#LicenseOperationFailure": {

        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type.</p>"
                }
            },
            "ErrorMessage": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Error message.</p>"
                }
            },
            "FailureTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {

    "smithy.api#documentation": "<p>Failure time.</p>"
                }
            },
            "OperationName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the operation.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the
resource.</p>"
                }
            },
            "OperationRequestedBy": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The requester is \"License Manager Automated Discovery\".</p>"
```

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                }
            },
            "MetadataList": {

                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Reserved.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes the failure of a license operation.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseOperationFailureList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailure"
        }
    },
    "com.amazonaws.licensemanager#LicenseSpecification": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

                "smithy.api#required": {}
                }
            },
            "AmiAssociationScope": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details for associating a license configuration with a resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseSpecifications": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseSpecification"
```

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    }
},
"com.amazonaws.licensemanager#LicenseStatus": {
    "type": "enum",
    "members": {
        "AVAILABLE": {
            "target": "smithy.api#Unit",

        "traits": {
                "smithy.api#enumValue": "AVAILABLE"
            }
        },
        "PENDING_AVAILABLE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_AVAILABLE"
            }
        },
        "DEACTIVATED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DEACTIVATED"
            }
        },
        "SUSPENDED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "SUSPENDED"
            }
        },
        "EXPIRED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EXPIRED"
            }
        },

    "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
```

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            }
        }
    },
    "com.amazonaws.licensemanager#LicenseUsage": {
        "type": "structure",
        "members": {
            "EntitlementUsages": {
                "target": "com.amazonaws.licensemanager#EntitlementUsageList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlement usages.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes the entitlement usage associated with a license.</p>"

        }
    },
    "com.amazonaws.licensemanager#LicenseUsageException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "LicenseUsageFailure",
                "httpResponseCode": 412
            },
            "smithy.api#documentation": "<p>You do not have enough licenses available to support a new resource
launch.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 412
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
        },
        "output": {

    "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the resource associations for the
 specified license configuration.</p>\n        <p>Resource associations need not consume licenses from a license
configuration. \n        For example, an AMI or a stopped instance might not consume a license (depending on \n
the license rules).</p>"
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results
 to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
```

"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationAssociations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license configuration. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{

"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants distributed for the specified license. "
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranteePrincipalARN</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},

"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",

"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{

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            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the license configuration operations that failed.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
        "type": "structure",
        "members": {
          "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
              "smithy.api#required": {}
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse":
{
        "type": "structure",
        "members": {
          "LicenseOperationFailureList": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
            "traits": {
              "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
```

```
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurations": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },

    "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations
for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
```

configurations. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next
set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical
operators\n are supported: \n \n \n \n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n
\n <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>. \n
\n \n \n <code>usagelimitExceeded</code> - A Boolean value that
indicates whether the available licenses have been exceeded. \n Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
"type": "structure",
"members": {
"LicenseConfigurations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurations",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",

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      "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasks": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
         },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
    "type": "structure",
    "members": {
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
```

"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " \n Filters to scope the results. Valid filters are <code>ResourceArns</code> and <code>Status</code>.\n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
"type": "structure",
"members": {
"LicenseConversionTasks": {
"target": "com.amazonaws.licensemanager#LicenseConversionTasks",
"traits": {
"smithy.api#documentation": " Information about the license configuration tasks for your account. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the report generators for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>LicenseConfigurationArn</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}

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            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits":
 {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
            "ReportGenerators": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorList",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }

        }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
```

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Describes the license configurations for the specified resource. "
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a resource that has an associated license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {

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        "LicenseSpecifications": {
            "target": "com.amazonaws.licensemanager#LicenseSpecifications",
            "traits": {
                "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
            }
        },
        "NextToken": {
             "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
         },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
    "type": "structure",
```

```
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
              "smithy.api#required": {}
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
              "smithy.api#documentation": "<p>License details.</p>"
            }
          },

"NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenses": {
        "type": "operation",
```

"input": {
"target": "com.amazonaws.licensemanager#ListLicensesRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicensesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses for your account. "
}
},
"com.amazonaws.licensemanager#ListLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>Status</code>\n \n \n "

```
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token
for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicensesResponse": {
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
              "smithy.api#documentation": "<p>License details.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

  "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedGrants": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
```

```
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists grants that are received. Received grants are grants created while specifying the\n recipient as this Amazon Web Services account, your organization, or an organizational unit\n (OU) to which this member account belongs.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
```

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            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants received for all accounts in the organization.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the received license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n
    <ul>\n        <li>\n        <p>\n        <code>ParentArn</code>\n        </p>\n        </li>\n
<li>\n        <p>\n        <code>GranteePrincipalArn</code>\n        </p>\n        </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
```

```
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse":
{
        "type": "structure",
        "members": {
            "Grants": {
                "target": "com.amazonaws.licensemanager#GrantList",
                "traits": {
                    "smithy.api#documentation": "<p>Lists the grants the organization has received.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
        "type": "structure",
        "members": {
            "GrantArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                 "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>ProductSKU</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                <code>LicenseIssuerName</code>\n                </p>\n
</li>\n            <li>\n                <p>\n                <code>LicenseArn</code>\n                </p>\n            </li>\n
<li>\n                <p>\n                <code>GrantStatus</code>\n                </p>\n            </li>\n            <li>\n
<p>\n
        <code>GranterAccountId</code>\n                </p>\n            </li>\n        </ul>"
                }
            },
```

```
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
    "type": "structure",
    "members": {
        "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
             "traits": {
                "smithy.api#documentation": "<p>Received grant details.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
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            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists received licenses.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
```

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            },
            {

        "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the licenses received for all accounts in the organization.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>Beneficiary</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                    <code>ProductSKU</code>\n
            </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
        "type": "structure",
        "members": {
            "Licenses": {
                "target": "com.amazonaws.licensemanager#GrantedLicenseList",
```

"traits": {
"smithy.api#documentation": " Lists the licenses the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>IssuerName</code>\n \n \n \n \n <code>Beneficiary</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}

```
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
    "type": "structure",
    "members": {
        "Licenses": {
            "target": "com.amazonaws.licensemanager#GrantedLicenseList",
            "traits": {
                "smithy.api#documentation": "<p>Received license details.</p>"
            }
        },

        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListResourceInventory": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#FailedDependencyException"
        },
        {
            "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
        },
        {
```

"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists resources managed using Systems Manager inventory. "
}
},
"com.amazonaws.licensemanager#ListResourceInventoryRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#InventoryFilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n
\n \n \n <code>application_name</code> - The name of the application. \n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n
\n \n \n <code>license_included</code> - The type of license included. \n
Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n Possible values are <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n
\n <code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n \n \n \n
<code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n
<code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account). \n \n "

```
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryResponse": {
        "type": "structure",
        "members": {
            "ResourceInventoryList": {
                "target": "com.amazonaws.licensemanager#ResourceInventoryList",
                "traits": {
                    "smithy.api#documentation": "<p>Information
about the resources.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the tags for the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the tags.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
```

"errors":
[
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists your tokens. "
}
},
"com.amazonaws.licensemanager#ListTokensRequest": {
"type": "structure",
"members": {
"TokenIds": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " Token IDs. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filter is supported: \n
\n \n \n <code>LicenseArns</code>\n \n \n
"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",

"traits": {
"smithy.api#documentation":
" Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListTokensResponse": {
"type": "structure",
"members": {
"Tokens": {
"target": "com.amazonaws.licensemanager#TokenList",
"traits": {
"smithy.api#documentation": " Received token details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying license\n consumption details by resource at a selected point in time. Use this action to audit the\n current license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n are supported:</p>\n <ul>\n <li>\n <p>\n <code>resourceArn</code> - The ARN of the license configuration resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n </li>\n <li>\n <p>\n <code>resourceType</code> - The resource type
```

(<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceAccount</code> - The ID of the account that owns the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
"type": "structure",
"members": {

"LicenseConfigurationUsageList": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#Location": {
"type": "string"
},
"com.amazonaws.licensemanager#Long": {
"type": "long"
},
"com.amazonaws.licensemanager#ManagedResourceSummary": {
"type": "structure",
"members": {
"ResourceType":
{
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of resource associated with a license. "
}

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        },
        "AssociationCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {

"type": "integer",
    "traits": {
        "smithy.api#range": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " The key name. "
}
},

"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The value. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes key/value pairs. "
}
},
"com.amazonaws.licensemanager#MetadataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Metadata"
}
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#Options": {
"type": "structure",
"members": {
"ActivationOverrideBehavior": {
"target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
"traits": {
"smithy.api#documentation": " An activation option for your grant that determines the behavior of activating a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter. \n \n \n As a license administrator, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant. \n

```
</li>\n <li>\n <p>As a grantor, you can optionally specify an\n
<code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your
organization.</p>\n </li>\n <li>\n <p>As a grantee, if the grantor creating the distributed
grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one
when you\n are activating the grant.</p>\n </li>\n </ul>\n <dl>\n
<dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n <p>Use this value to activate a grant
without replacing any member accounts\n active grants for the same product.</p>\n </dd>\n
<dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n <p>Use this value to activate a
grant and disable other active grants in any\n member accounts
 for the same product. This action will also replace their\n previously activated grants with this activated
grant.</p>\n </dd>\n </dl>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The options you can specify when you create a new version of a grant,
such as activation\n override behavior. For more information, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in
License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
      },
      "com.amazonaws.licensemanager#OrganizationConfiguration": {
        "type": "structure",
        "members": {
          "EnableIntegration": {
            "target": "com.amazonaws.licensemanager#Boolean",
            "traits": {
              "smithy.api#default": false,
              "smithy.api#documentation":
 "<p>Enables Organizations integration.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Configuration information for Organizations.</p>"
        }
      },
      "com.amazonaws.licensemanager#PrincipalArnList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#Arn"
        },
        "traits": {
          "smithy.api#length": {
            "min": 1,
            "max": 1
          }
```

```
        }
    },
    "com.amazonaws.licensemanager#ProductInformation": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type. The
possible values are <code>SSM_MANAGED</code> | <code>RDS</code>.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductInformationFilterList": {
                "target": "com.amazonaws.licensemanager#ProductInformationFilterList",
                "traits": {
                    "smithy.api#documentation": "<p>A Product information filter consists of a
<code>ProductInformationFilterComparator</code> which is a logical operator, a
<code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a
<code>ProductInformationFilterValue</code> that specifies the value to filter on. </p>\n        <p>Accepted values
for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for
<code>ProductInformationFilterComparator</code>. </p>\n        <p>The following filters and are supported when
the resource type \n        is <code>SSM_MANAGED</code>:</p>\n
        <ul>\n            <li>\n                <p>\n                <code>Application Name</code> - The name of the
application.\n                Logical operator is <code>EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n                <code>Application Publisher</code> - The publisher of the application.\n                Logical
operator is <code>EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n
<code>Application Version</code> - The version of the application.\n                Logical operator is
<code>EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>Platform
Name</code> - The name of the platform.\n                Logical operator is <code>EQUALS</code>.</p>\n
</li>\n            <li>\n                <p>\n                <code>Platform Type</code> - The platform type.\n
Logical operator is <code>EQUALS</code>.</p>\n
        </li>\n            <li>\n                <p>\n                <code>Tag:key</code> - The key of a tag attached to an
Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is
<code>NOT_EQUALS</code>.  The key for your tag must be appended to <code>Tag:</code> following the
example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you
are not using values for the key.\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from
automated discovery.\n                Logical operator is <code>NOT_EQUALS</code>.</p>\n            </li>\n
<li>\n                <p>\n                <code>License Included</code> - The type of license included.\n                Logical
operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n                Possible values are:
 <code>sql-server-enterprise</code> | \n                <code>sql-server-standard</code> | \n                <code>sql-server-
web</code> |  \n                <code>windows-server-datacenter</code>.</p>\n            </li>\n        </ul>\n
<p>The following filters and logical operators are supported when the resource type\n        is
<code>RDS</code>:</p>\n        <ul>\n            <li>\n                <p>\n                <code>Engine Edition</code> -
The edition of the database engine.\n                Logical operator is <code>EQUALS</code>.\n                Possible
values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-
se2</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>License Pack</code> - The license
```

pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n <code>diagnostic pack sqlt</code> | \n
<code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n
\n ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information for a license configuration. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
"type": "structure",
"members": {
"ProductInformationFilterName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Filter name. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterValue": {
"target": "com.amazonaws.licensemanager#StringList",

"traits": {
"smithy.api#documentation": " Filter value. "
}
},
"ProductInformationFilterComparator": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Logical operator. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information filters. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ProductInformationFilter"
}
},
"com.amazonaws.licensemanager#ProductInformationList": {

"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ProductInformation"
}
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
"type": "structure",
"members": {
"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the provisional configuration, in minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"com.amazonaws.licensemanager#RateLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "RateLimitExceeded",
"httpResponseCode": 429
},
"smithy.api#documentation": " Too many requests have been submitted. Try again after a brief wait. ",
"smithy.api#error": "client",
"smithy.api#httpError": 429
}
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
"type": "structure",
"members": {
"ReceivedStatus": {
"target": "com.amazonaws.licensemanager#ReceivedStatus",
"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {

"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Received
status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations. "
}
}
},
"traits": {
"smithy.api#documentation": " Metadata associated with received licenses and grants. "
}
},
"com.amazonaws.licensemanager#ReceivedStatus": {
"type": "enum",
"members": {
"PENDING_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_WORKFLOW"
}
},
"PENDING_ACCEPT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue":
"PENDING_ACCEPT"
}
},
"REJECTED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REJECTED"
}
},
"ACTIVE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ACTIVE"
}
},
"FAILED_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {

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            "smithy.api#enumValue": "FAILED_WORKFLOW"
          }
        },
        "DELETED": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "DELETED"
          }
        },
        "DISABLED": {
          "target": "smithy.api#Unit",
           "traits": {
            "smithy.api#enumValue": "DISABLED"
          }
        },
        "WORKFLOW_COMPLETED": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "WORKFLOW_COMPLETED"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#RedirectException": {
      "type": "structure",
      "members": {
        "Location": {
          "target": "com.amazonaws.licensemanager#Location",
          "traits": {
            "smithy.api#httpHeader": "Location"
          }
        },
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
         "smithy.api#error": "client",
        "smithy.api#httpError": 308
      }
    },
    "com.amazonaws.licensemanager#RejectGrant": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#RejectGrantRequest"
      },
      "output": {
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"target": "com.amazonaws.licensemanager#RejectGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Rejects the specified grant. "
}
},
"com.amazonaws.licensemanager#RejectGrantRequest": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}

}
},
"com.amazonaws.licensemanager#RejectGrantResponse": {
"type": "structure",

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        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Grant version.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#RenewType":
{
        "type": "enum",
        "members": {
          "NONE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "None"
            }
          },
          "WEEKLY": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Weekly"
            }
          },
          "MONTHLY": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Monthly"
            }
          }
        }
      },
```

"com.amazonaws.licensemanager#ReportContext": {
"type": "structure",
"members": {
"licenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details of the license configuration that this generator reports on. "
}
},
"com.amazonaws.licensemanager#ReportFrequency": {
"type": "structure",
"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "
}
},
"period": {
"target": "com.amazonaws.licensemanager#ReportFrequencyType",

"traits": {
"smithy.api#documentation": " Time period between each report. The period can be daily, weekly, or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"com.amazonaws.licensemanager#ReportFrequencyType": {
"type": "enum",
"members": {
"DAY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DAY"
}

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            },
            "WEEK": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "WEEK"
                }
            },
            "MONTH": {
                "target": "smithy.api#Unit",
                "traits":
{
                    "smithy.api#enumValue": "MONTH"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ReportGenerator": {
        "type": "structure",
        "members": {
            "ReportGeneratorName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>"
                }
            },
            "ReportType": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports that are generated.</p>"
                }
            },
            "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
                    "smithy.api#documentation": "<p>License
configuration type for this generator.</p>"
                }
            },
            "ReportFrequency": {
                "target": "com.amazonaws.licensemanager#ReportFrequency",
                "traits": {
                    "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
                }
            },
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>"
```

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            }
        },
        "LastRunStatus": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Status of the last report generation attempt.</p>"
            }
        },
        "LastRunFailureReason":
 {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Failure message for the last report generation attempt.</p>"
            }
        },
        "LastReportGenerationTime": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Time the last report was generated at.</p>"
            }
        },
        "ReportCreatorAccount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The Amazon Web Services account ID used to create the report
generator.</p>"
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",

      "traits": {
                "smithy.api#documentation": "<p>Description of the report generator.</p>"
            }
        },
        "S3Location": {
            "target": "com.amazonaws.licensemanager#S3Location",
            "traits": {
                "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
            }
        },
        "CreateTime": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Time the report was created.</p>"
            }
        },
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        "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
                "smithy.api#documentation": "<p>Tags associated with the report generator.</p>"
            }

}
    },
    "traits": {
        "smithy.api#documentation": "<p>Describe the details of a report generator.</p>"
    }
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportGenerator"
    }
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#ReportType": {
    "type": "enum",
    "members": {
        "LICENSE_CONFIGURATION_SUMMARY_REPORT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "LicenseConfigurationSummaryReport"
            }

},
        "LICENSE_CONFIGURATION_USAGE_REPORT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "LicenseConfigurationUsageReport"
            }
        }
    }
},
"com.amazonaws.licensemanager#ReportTypeList": {
    "type": "list",
    "member": {
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            "target": "com.amazonaws.licensemanager#ReportType"
        }
    },
    "com.amazonaws.licensemanager#ResourceInventory": {
        "type": "structure",
        "members": {
            "ResourceId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits":
{
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "Platform": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform of the resource.</p>"
                }
            },
            "PlatformVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
                }
            },
            "ResourceOwningAccountId":
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a resource.</p>"
        }
```

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},
"com.amazonaws.licensemanager#ResourceInventoryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ResourceInventory"
    }
},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "ResourceLimitExceeded",

         "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>Your resource limits have been exceeded.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "InvalidResource.NotFound",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The resource cannot be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceType": {
    "type": "enum",
     "members": {
        "EC2_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
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"smithy.api#enumValue": "EC2_INSTANCE"
}
},
"EC2_HOST": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "EC2_HOST"
}
},
"EC2_AMI": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "EC2_AMI"
}
},
"RDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "RDS"
}
},
"SYSTEMS_MANAGER_MANAGED_INSTANCE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
}
}
}
},
"com.amazonaws.licensemanager#S3Location": {
"type": "structure",
"members": {
"bucket": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the S3 bucket reports are published to. "
}
},
"keyPrefix": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Prefix of the S3 bucket reports are published to. "
}
}
},
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "

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        }
    },
    "com.amazonaws.licensemanager#ServerInternalException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InternalError",
                "httpResponseCode": 500
            },
            "smithy.api#documentation": "<p>The server experienced an internal error. Try again.</p>",
            "smithy.api#error": "server",
            "smithy.api#httpError": 500
        }
    },
    "com.amazonaws.licensemanager#SignedToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 4096
            }
        }
    },
    "com.amazonaws.licensemanager#StatusReasonMessage": {
        "type": "string",
        "traits":
{
            "smithy.api#length": {
                "min": 0,
                "max": 400
            },
            "smithy.api#pattern": "^[\\s\\S]+$"
        }
    },
    "com.amazonaws.licensemanager#String": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#Tag": {
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"type": "structure",
"members": {
"Key": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Tag key. "
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation":
" Tag value. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a tag for a license configuration. "
}
},
"com.amazonaws.licensemanager#TagKeyList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#String"
}
},
"com.amazonaws.licensemanager#TagList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Tag"
}
},
"com.amazonaws.licensemanager#TagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#TagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#TagResourceResponse"
},
"errors": [
{
"target":
"com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

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            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits":
 {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>One or more tags.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
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"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. "
}
},
"TokenType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Type of token generated. The supported value is <code>REFRESH_TOKEN</code>. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"ExpirationTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Token expiration time, in ISO8601-UTC format. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller. "
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the roles included in the token. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. "
}
}
},
"traits": {

"smithy.api#documentation": " Describes a token. "
}
},
"com.amazonaws.licensemanager#TokenList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#TokenData"
}
},
"com.amazonaws.licensemanager#TokenString": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 4096
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#TokenType": {
"type": "enum",
"members": {
"REFRESH_TOKEN": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REFRESH_TOKEN"
}
}
}
},
"com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The digital signature method is unsupported. Try your request again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#UntagResource": {
"type": "operation",

"input": {
"target": "com.amazonaws.licensemanager#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UntagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Removes the specified tags from the specified license configuration. "
}
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",
"traits": {
"smithy.api#documentation": " Keys identifying the tags to remove. ",
"smithy.api#required": {}
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Modifies the attributes of an existing license configuration. "
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"LicenseConfigurationStatus": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
"traits": {
"smithy.api#documentation": " New status of the license configuration. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " New license rule. The only rule that you can add after you create a license\n configuration is licenseAffinityToHost. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " New number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",

"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},

```
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates a report generator.</p>\n        <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to update.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportGeneratorName": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>",
                    "smithy.api#required": {}
                }
            },
            "Type": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports to generate. The following report types are supported:</p>\n        <ul>\n            <li>\n                <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p>\n            </li>\n            <li>\n                <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n            </li>\n        </ul>",
                    "smithy.api#required": {}
                }
            },
            "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
```

"smithy.api#documentation": " The report context. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits":
{
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },

            {
                "target": "com.amazonaws.licensemanager#InvalidResourceStateException"
            },
            {
                "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p>\n        <p>You can update the license specifications of AMIs, instances, and
hosts.\n        You cannot update the license specifications for launch templates and CloudFormation templates, \n
 as they send license configurations to the operation that creates the resource.</p>"
        }
    },

    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "AddLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
                }
            },
```

"RemoveLicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation":
" ARNs of the license configurations to remove. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Updates License Manager settings for the current Region. "
}
},

"com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
"type": "structure",
"members": {
"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon S3 bucket where the License
Manager information is stored. "
}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Enables integration with Organizations for cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Activates cross-account discovery. "

}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UsageOperation": {
"type": "string",
"traits": {
"smithy.api#length": {

```
                "min": 0,
                "max": 50
            }
        }
    },
    "com.amazonaws.licensemanager#ValidationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",

     "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    }
  }
}
```


```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version
 of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
```

```
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack,
options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if
err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
```

```
middleware.Before); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
```

1.4333 aws-sdk-go-v2-feature-ec2-imds 1.14.11

1.4333.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil,
 err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
```

```
 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err !=
 nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
  return err
```

```
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
```

AWS SDK for Go
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```
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
     - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
       with:
         python-version: ${{ matrix.python-version }}
     # ScanCode
     - name: Self-configure scancode
       working-directory: ./scancode-toolkit
       run: ./scancode --help
     - name: Run Scan code on target
       run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
```

```
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
```

```
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return
 err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
```

```
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckInLicense",
 }
}
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
      "type": "integer"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
      "type": "long"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The type of name to filter by.</p>"
          }
        },
        "Values": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
          "traits": {
            "smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
          }
        },
        "Operator": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
           "traits": {
            "smithy.api#documentation": "<p>An operator for filtering results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>A filter object that is used to return more specific results from a describe
operation.\n      Filters can be used to match a set of resources by specific criteria.</p>"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
      }
    },
```

"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
},
"output": {

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions service settings. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/GetServiceSettings"
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"smithy.api#idempotent": {}
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"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest":
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"type": "structure",
"members": {}
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"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " Lists the settings defined for Linux subscriptions discovery. The

settings include if\n Organizations integration has been enabled, and
which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being
applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings
current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays
the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
"type": "structure",
"members": {
"AmiId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The AMI ID used to launch the instance. "
}
},
"InstanceID": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The instance ID of the resource. "
}
},
"InstanceType": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The instance type of the resource. "
}

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        },
            "AccountID": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The account ID which owns the instance.</p>"
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status of the instance.</p>"
                }
            },
            "Region": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Region the instance is running in.</p>"
                }
            },
            "UsageOperation": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The usage operation of the instance. For more information, see For
 more information, see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-
subscriptions-usage-operation.html\">Usage\n        operation values</a> in the <i>License Manager User
Guide</i>.</p>"
                }
            },
            "ProductCode": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
                "traits": {
                    "smithy.api#documentation": "<p>The product code for the instance. For more information, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-
operation.html\">Usage\n        operation values</a> in the <i>License Manager User Guide</i> .</p>"
                }
            },
            "LastUpdatedTime": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The time in which the last discovery
 updated the instance details.</p>"
                }
            },
            "SubscriptionName": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the subscription being used by the instance.</p>"
                }
```

```
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details discovered information about a running instance using Linux
subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
             }
        },
        "traits": {
            "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
            "smithy.api#error": "server"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
        "type": "service",
        "version": "2018-05-10",
        "operations": [
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                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
            }
        ],

    "traits": {
            "aws.api#service": {
                "sdkId": "License Manager Linux Subscriptions",
                "arnNamespace": "license-manager-linux-subscriptions",
                "cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
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},
"aws.auth#sigv4": {
"name": "license-manager-linux-subscriptions"
},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",

"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"
]
},
"smithy.api#documentation": " With License Manager, you can discover and track your commercial Linux subscriptions on running\n Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager Linux Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
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"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",

"type": "Boolean"
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"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

"type": "Boolean"
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"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
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"fn": "isSet",
"argv": [
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"ref": "Endpoint"
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]
}
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"type": "tree",
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"conditions": [
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"argv": [
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"ref": "UseFIPS"
},
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]
}
],
"error": "Invalid Configuration: FIPS and custom endpoint are not supported",
"type": "error"
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                      "type": "error"
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                        "properties": {},
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                    }
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                          "ref": "Region"
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                        "argv": [
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                                "ref": "Region"
                            }
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"assign": "PartitionResult"
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                "rules": [
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                                "argv": [
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                                    },
                                    true
                                ]
                            },

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                                "argv": [
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                                        "ref": "UseDualStack"
                                    },
                                    true
                                ]
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                                "conditions": [
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"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsFIPS"
]

}
]
},
{
"fn": "booleanEquals",
"argv": [
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{
"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},

"supportsDualStack"
]
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]
}
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"rules": [
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"conditions": [],
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"rules": [
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"conditions": [],
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"properties": {},
"headers": {}
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"type": "endpoint"
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]

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"type": "error"
}
]
},
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
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"ref": "UseFIPS"
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"type": "tree",
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"conditions": [
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"argv": [
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{
"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsFIPS"
]
}
]
}

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                                "conditions": [],
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fips.{Region}.{PartitionResult#dnsSuffix}",
                                    "properties": {},
                                    "headers": {}

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                                "type": "endpoint"
                            }
                        ]
                    }
                ]
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            {
                "conditions": [],
                "error": "FIPS is enabled but this partition does not support FIPS",
                "type": "error"
            }
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                    "fn": "booleanEquals",
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                        },
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                    ]
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                            {
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                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsDualStack"
                                ]
                            }
                        ]
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                                "conditions": [],

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subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
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                        ]
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                "type": "error"
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"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
}
]
}
]
},
{
"conditions": [],
"error": "Invalid Configuration: Missing Region",
"type": "error"
}
]
}
]
},
"smithy.rules#endpointTests": {
"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
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"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {

"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"

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        }
    },
    "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": false
    }
},
{
    "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
        }
    },
    "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
         "UseDualStack": true
    }
},
{
    "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
        }
    },
    "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": false
    }
},
{
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
    "expect": {
        "endpoint": {

    "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
        }
    },
    "params": {
        "Region": "cn-north-1",
        "UseFIPS": true,
        "UseDualStack": true
    }
},
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          "expect": {
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
            }
          },
          "params": {
            "Region": "cn-north-1",
            "UseFIPS": true,
             "UseDualStack": false
          }
        },
        {
          "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
            }
          },
          "params": {
            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint":
{
              "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
            }
          },
          "params": {
            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
            }
          },
          "params": {
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"Region": "us-gov-east-1",
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"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint":
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"url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
}
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"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
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{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {

"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{

"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",

"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {

"Region": "us-isob-east-1",
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"UseDualStack": true
}
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{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
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{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",

"UseFIPS": false,
"UseDualStack": false
}

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            },
            {
              "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://example.com"
                }
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",

        "expect": {
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                  "url": "https://example.com"
                }
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              "params": {
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "For custom endpoint with fips enabled and dualstack disabled",
              "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false,

          "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "For custom endpoint with fips disabled and dualstack enabled",
              "expect": {
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
              },
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                "params": {
                  "Region": "us-east-1",
                  "UseFIPS": false,
                  "UseDualStack": true,
                  "Endpoint": "https://example.com"
                }
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              {
                "documentation": "Missing region",
                "expect": {
                  "error": "Invalid Configuration: Missing Region"
                }

          }
            ],
            "version": "1.0"
          }
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
        "type": "string",
        "traits": {
          "smithy.api#enum": [
            {
              "name": "Enabled",
              "value": "Enabled",
              "documentation": "Enabled LinuxSubscriptionsDiscovery"
            },
            {
              "name": "Disabled",
              "value": "Disabled",
              "documentation": "Disabled LinuxSubscriptionsDiscovery"
            }
          ]
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
        "type": "structure",
        "members": {
          "SourceRegions": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
             "traits": {
              "smithy.api#documentation": "<p>The Regions in which to discover data for Linux
subscriptions.</p>",
              "smithy.api#required": {}
            }
          },
          "OrganizationIntegration": {
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"target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
"traits": {
"smithy.api#documentation": " Details if you have enabled resource discovery across your accounts in Organizations. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Lists the settings defined for discovering Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the running Amazon EC2 instances that were discovered with commercial Linux\n subscriptions. ",
"smithy.api#http": {

"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptionInstances"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Instances"
}

```
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by
 the name of\n        <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n
match, or don't match a certain Amazon Machine Image (AMI) ID.</p>\n        <p>The valid names for this filter
are:</p>\n        <ul>\n            <li>\n                <p>\n                <code>AmiID</code>\n                </p>\n
</li>\n            <li>\n                <p>\n                <code>InstanceID</code>\n                </p>\n            </li>\n
<li>\n                <p>\n                <code>AccountID</code>\n                </p>\n            </li>\n            <li>\n
<p>\n                <code>Status</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>Region</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>UsageOperation</code>\n                </p>\n            </li>\n            <li>\n
    <p>\n                <code>ProductCode</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
     <code>InstanceType</code>\n                </p>\n            </li>\n        </ul>\n        <p>The valid Operators for this
filter are:</p>\n        <ul>\n            <li>\n                <p>\n                <code>contains</code>\n                </p>\n
</li>\n            <li>\n                <p>\n                <code>equals</code>\n                </p>\n            </li>\n            <li>\n
        <p>\n                <code>Notequal</code>\n                </p>\n            </li>\n        </ul>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"

       }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>",
                    "smithy.api#length": {
                        "min": 1,
                        "max": 16384
                    }
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
        }
    },
```

"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
"type": "structure",
"members": {
"Instances": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
"traits": {
"smithy.api#documentation":
" An array that contains instance objects. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions that have been discovered. If you have linked your\n organization, the returned results will include data aggregated across your accounts in\n Organizations. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptions"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {

"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Subscriptions"
}

}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>Subscription</code> with an optional operator to see subscriptions that match,\n partially match, or don't match a certain subscription's name. \n The valid names for this filter are: \n \n \n \n <code>Subscription</code>\n \n \n \n The valid Operators for this filter are: \n \n \n \n <code>contains</code>\n \n \n \n \n <code>equals</code>\n \n \n \n \n <code>Notequal</code>\n \n \n "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. ",
"smithy.api#length": {

"min": 1,
"max": 16384
}
}
}
},
"traits": {
"smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."
}
},

```
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
        "type": "structure",
        "members": {
            "Subscriptions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
                "traits": {
                    "smithy.api#documentation": "<p>An array that contains subscription objects.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for
the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "name": "EQUAL",
                    "value": "Equal",
                    "documentation": "Equal operator"
                },
                {
                    "name": "NOT_EQUAL",
                    "value": "NotEqual",
                    "documentation": "Not equal operator"
                },
                {
                    "name": "CONTAINS",
                    "value": "Contains",
                    "documentation": "Contains operator"
                }
            ],
            "smithy.api#length": {
                "min": 1,
                "max": 20
            }
        }
    },

  "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
        "type": "string",
        "traits": {
```

"smithy.api#enum": [
{
"name": "Enabled",
"value": "Enabled",
"documentation": "Enabled OrganizationIntegration"
},
{
"name": "Disabled",
"value": "Disabled",
"documentation": "Disabled OrganizationIntegration"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
"type": "list",
"member": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
"type": "string",
"traits": {
"smithy.api#enum": [

{
"name": "InProgress",
"value": "InProgress",
"documentation": "InProgress status"
},
{
"name": "Completed",
"value": "Completed",
"documentation": "Completed status"
},
{
"name": "Successful",
"value": "Successful",
"documentation": "Successful status"
},
{
"name": "Failed",
"value": "Failed",
"documentation": "Failed status"
}
]
}
},

"com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
"type": "list",
"member": {
"target": "smithy.api#String",
"traits":
{
"smithy.api#length": {
"min": 1,
"max": 100
}
}
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
},
"smithy.api#uniqueItems": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
"type": "map",
"key": {
"target": "smithy.api#String"
},
"value": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
"type": "structure",
"members": {
"Name": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription. "

}
},
"Type": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own\n Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the\n Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS. "
}
},

"InstanceCount": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
"traits": {
"smithy.api#documentation": " The total amount of running instances using this subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " An object which details a discovered Linux subscription. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request was denied due to request throttling. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
},

"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates the service settings for Linux subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/UpdateServiceSettings"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest":
{
        "type": "structure",
        "members": {
            "LinuxSubscriptionsDiscovery": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
                "traits": {
                    "smithy.api#documentation": "<p>Describes if the discovery of Linux subscriptions is enabled.</p>",
                    "smithy.api#required": {}
                }
            },
            "LinuxSubscriptionsDiscoverySettings": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
                "traits": {
                    "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The
settings include if Organizations\n      integration has been enabled, and which Regions data will be aggregated
from.</p>",

  "smithy.api#required": {}
                }
            },
            "AllowUpdate": {
                "target": "smithy.api#Boolean",
                "traits": {
                    "smithy.api#documentation": "<p>Describes if updates are allowed to the service settings for Linux
subscriptions. If you\n      allow updates, you can aggregate Linux subscription data in more than one home
Region.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "LinuxSubscriptionsDiscovery": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
```

"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},

"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The provided input is not valid. Try your request again. ",
"smithy.api#error": "client"
}
}

```
   }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - Beneficiary
 //   - ProductSKU
 //   - Fingerprint
 //
   - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
```

```
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if
 err := addProtocolFinalizerMiddlewares(stack, options, "ListLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
```

```
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
     ServiceID,
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
```

```
 //
 //
 This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack,
 options, "DisassociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
```

```
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
```

```
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {
```

```
 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource
 Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil
```

```
{
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack);
err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
```

```
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
```

```
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier
 that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
```

```
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }
```

```
if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return
err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
```

```
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
```

```
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide
 to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
```

```
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity
 *types.DatetimeRange

 // Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
```

```
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
 return fmt.Errorf("add
protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName:
 "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
```

```
err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return
err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack);
 err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "GetLicense",
 }
}
```

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(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

```
type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
   - ProductSKU
 //   - Status
 //   - Fingerprint
 //   - IssuerName
 //   - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
```

```
middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack);
err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
```

```
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
 }
}
```

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```
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
        "smithy.api#error": "client"
      }
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    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
      "type": "structure",
      "members": {
        "DirectoryId": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation":
"<p>Details about an Active Directory identity provider.</p>"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
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      "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
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      "errors": [
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
```

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Associates the user to an EC2 instance to utilize user-based
subscriptions.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related
costs will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing
status) in Amazon Web Services Billing. For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n
        monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/AssociateUser"
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            "smithy.api#idempotent": {}
        }
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    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the
 EC2 instance, which provides user-based subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
```

"traits": {
"smithy.api#documentation": " The identity provider of the user. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
"type": "integer"
},
"com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request couldn't be completed because it conflicted with the current state of the\n resource. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
},
"output": {

"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
},
"errors": [
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"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deregisters the identity provider from providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/DeregisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",

"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation":
" Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
},
"errors": [
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"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{

"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Disassociates the user from an EC2 instance providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/DisassociateUser"
},
"smithy.api#idempotent": {}
}

},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
        "type": "structure",
        "members": {
            "InstanceUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },

"com.amazonaws.licensemanagerusersubscriptions#Filter": {
        "type": "structure",
        "members": {
            "Attribute": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of an attribute to use as a filter.</p>"
                }
            },
            "Operation": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The type of search (For example, eq, geq, leq)</p>"
                }
            },
            "Value": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Value of the filter.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A filter name and value pair that is used
to return more specific results from a describe\n      operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n      attributes, or IDs.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#FilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
        }
    },
```

```
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
        "type": "union",
        "members": {
            "ActiveDirectoryIdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that details an Active Directory identity provider.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
 "<p>Details about an identity provider.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Settings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
                "traits": {
                    "smithy.api#documentation": "<p>An object that details the registered identity providers product
related configuration\n      settings such as the subnets to provision VPC endpoints.</p>",
                    "smithy.api#required":
 {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status of an identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
```

"FailureMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The failure message associated with an identity provider. "
}
}
},
"traits": {
"smithy.api#documentation":
" Describes an identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
"type": "structure",
"members": {
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based
subscriptions. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status
of an EC2 instance resource. ",
"smithy.api#required": {}
}
},
"Products": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
"traits": {
"smithy.api#documentation": " A list of provided user-based subscription products. ",
"smithy.api#required": {}
}
},
"LastStatusCheckDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date of the last status check. "

```
                }
            },
            "StatusMessage": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status message for an EC2 instance.</p>"
                }

        }
            },
            "traits": {
                "smithy.api#documentation": "<p>Describes an EC2 instance providing user-based subscriptions.</p>"
            }
        },
        "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
            "type": "list",
            "member": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
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        },
        "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
            "type": "structure",
            "members": {
                "Username": {
                    "target": "smithy.api#String",
                    "traits": {
                        "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                        "smithy.api#required": {}
                    }
                },
                "InstanceId": {
                    "target": "smithy.api#String",
                    "traits":
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                        "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                        "smithy.api#required": {}
                    }
                },
                "IdentityProvider": {
                    "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                    "traits": {
                        "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                        "smithy.api#required": {}
                    }
                },
                "Status": {
                    "target": "smithy.api#String",
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"traits": {
"smithy.api#documentation": " The status of a user associated with an EC2 instance. ",
"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for users of an EC2 instance. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"AssociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was associated with an EC2 instance. "
}
},
"DisassociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was disassociated from an EC2 instance. "
}
}

},
"traits": {
"smithy.api#documentation": " Describes users of an EC2 instance providing user-based subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}

```
        },
        "traits": {
            "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
            "smithy.api#error": "server"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
        "type": "service",

     "version": "2018-05-10",
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                "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

},
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
            }
        ],
        "traits": {
            "aws.api#service": {
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"sdkId": "License Manager User Subscriptions",
"arnNamespace": "license-manager-user-subscriptions",
"cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
},
"aws.auth#sigv4": {
"name": "license-manager-user-subscriptions"
},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",
"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"

]
},
"smithy.api#documentation": " With License Manager, you can create user-based subscriptions to utilize licensed software with\n a per user subscription fee on Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager User Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,

"documentation": "When true, use the dual-stack
endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the
configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}

},
"rules": [
{
"conditions": [
{
"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
]
}
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{
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{
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},

true
]
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],
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                "type": "error"
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                                "ref": "UseDualStack"
                            },
                            true
                        ]
                    }
                ],

"error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                "type": "error"
            },
            {
                "conditions": [],
                "endpoint": {
                    "url": {
                        "ref": "Endpoint"
                    },
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ]
    },
    {
        "conditions": [
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                "fn": "isSet",
                "argv": [

{
                        "ref": "Region"
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                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
```

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                "fn": "aws.partition",
                "argv": [
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                    "ref": "Region"
                  }
                ],
                "assign": "PartitionResult"
              }
            ],
            "type": "tree",

        "rules": [
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                "conditions": [
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                    "fn": "booleanEquals",
                    "argv": [
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                        "ref": "UseFIPS"
                      },
                      true
                    ]
                  },
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseDualStack"

                     },
                      true
                    ]
                  }
                ],
                "type": "tree",
                "rules": [
                  {
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                        "argv": [
                          true,
                          {
                            "fn": "getAttr",

    "argv": [
                                  {
                                    "ref": "PartitionResult"
```

```
                                    },
                                    "supportsFIPS"
                                ]
                            }
                        ]
                    },
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
                            {

"fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsDualStack"
                                ]
                            }
                        ]
                    }
                ],
                "type": "tree",
                "rules": [
                    {

"conditions": [],
                        "endpoint": {
                            "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                            "properties": {},
                            "headers": {}
                        },
                        "type": "endpoint"
                    }
                ]
            },
            {
                "conditions": [],
                "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
                 "type": "error"
            }
        ]
    },
    {
        "conditions": [
```

```
                    {
                      "fn": "booleanEquals",
                      "argv": [
                        {
                          "ref": "UseFIPS"
                        },
                        true
                      ]
                    }
                  ],
                  "type": "tree",

        "rules": [
                    {
                      "conditions": [
                        {
                          "fn": "booleanEquals",
                          "argv": [
                            true,
                            {
                              "fn": "getAttr",
                              "argv": [
                                {
                                  "ref": "PartitionResult"
                                },
                                "supportsFIPS"

                          ]
                            }
                          ]
                        }
                      ],
                      "type": "tree",
                      "rules": [
                        {
                          "conditions": [],
                          "endpoint": {
                            "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                            "properties": {},
                            "headers": {}

            },
                          "type": "endpoint"
                        }
                      ]
                    },
                    {
```

"conditions": [],
"error": "FIPS is enabled but this partition does not support FIPS",
"type": "error"
}
]
},
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseDualStack"
},
true
]
}
],
"type": "tree",
"rules": [
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
true,
{

"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsDualStack"
]
}
]
}
],
"type": "tree",
"rules": [
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"conditions": [],
"endpoint": {
"url": "https://license-manager-user-subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},

"headers": {}
},
"type": "endpoint"
}
]
},
{
"conditions": [],
"error": "DualStack is enabled but this partition does
not support DualStack",
"type": "error"
}
]
},
{
"conditions": [],
"endpoint": {
"url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
}
]
},
{
"conditions":
[],
"error": "Invalid Configuration: Missing Region",
"type": "error"
}
]
},
"smithy.rules#endpointTests": {
"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,

"UseDualStack": true
}
},
{
"documentation":
"For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
}
},

"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with
FIPS enabled and DualStack enabled",
"expect": {

"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},

"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",

"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1
with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {

"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect":
{
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack":
true
}
},

{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but
this partition does not support one or both"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}

},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true

```
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
                }
            },
             "params": {
                "Region": "us-isob-east-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://example.com"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {

"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://example.com"
                }
            },
            "params": {
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips enabled and dualstack disabled",
            "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
            },
```

```
                "params": {
                    "Region": "us-east-1",
                     "UseFIPS": true,
                    "UseDualStack": false,
                    "Endpoint": "https://example.com"
                }
            },
            {
                "documentation": "For custom endpoint with fips disabled and dualstack enabled",
                "expect": {
                    "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
                },
                "params": {
                    "Region": "us-east-1",
                    "UseFIPS": false,
                    "UseDualStack": true,
                    "Endpoint": "https://example.com"
                }
            },
            {
                "documentation": "Missing region",
                "expect": {
                     "error": "Invalid Configuration: Missing Region"
                }
            }
        ],
        "version": "1.0"
    }
  }
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the identity providers for user-based subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/ListIdentityProviders"
            },
            "smithy.api#paginated":
{
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "IdentityProviderSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
```

```
{
        "type": "structure",
        "members": {
            "IdentityProviderSummaries": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
                    "smithy.api#required": {}
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
         },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
```

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/instance/ListInstances"
            },
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                 "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
        "type":
 "structure",
        "members": {
            "InstanceSummaries": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the list instances operation.</p>"
```

```
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
             }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the user-based subscription products available from an identity
provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListProductSubscriptions"
```

```
            },
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "ProductUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name
of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {

 "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match
one or\n      more sets of key-value pairs that you specify.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
```

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
      "type": "structure",
      "members": {
        "ProductUserSummaries": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
          "traits": {
            "smithy.api#documentation": "<p>Metadata that describes the list product subscriptions
operation.</p>"
          }
        },

     "NextToken": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
          "target":
 "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
```

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists user associations for an identity provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListUserAssociations"
            },
            "smithy.api#paginated":
{
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity
provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {
```

"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
"type": "structure",
"members": {
"InstanceUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list user association operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
"type": "structure",
"members": {

"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider of the user. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},

"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}

},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a product for a user. ",
"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for a product for a user. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"SubscriptionStartDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The
start date of a subscription. "
}
},
"SubscriptionEndDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The end date of a subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " The summary of the user-based subscription products for a user. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
"type": "list",
"member": {

"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Registers an identity provider for user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/RegisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {

"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings such as the\n subnets to provision VPC endpoints. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The resource couldn't be found. ",
"smithy.api#error": "client",
"smithy.api#httpError": 404

```
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
        "type": "string",

    "traits": {
            "smithy.api#length": {
                "min": 5,
                "max": 200
            },
            "smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request failed because a service quota is exceeded.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Settings": {
        "type": "structure",
        "members": {
            "Subnets": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
                "traits": {
                    "smithy.api#documentation":
 "<p>The subnets defined for the registered identity provider.</p>",
                    "smithy.api#length": {
                        "min": 1
                    },
                    "smithy.api#required": {}
                }
            },
            "SecurityGroupId": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
                "traits": {
                    "smithy.api#documentation": "<p>A security group ID that allows inbound TCP port 1688
communication between resources in\n      your VPC and the VPC endpoint for activation servers.</p>",
                    "smithy.api#required": {}
                }
            }
        },
```

"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings such as the\n subnets to provision VPC endpoints, and the security group ID that
is associated with the VPC\n endpoints. The security group should permit inbound TCP port 1688 communication from resources\n in the VPC. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Starts a product subscription for a user with the specified identity provider. \n <note>\n Your estimated bill for charges on the number of users and related costs will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing.
For more information, see Viewing your\n monthly charges in the Amazon Web Services Billing User Guide. \n </note>",
"smithy.api#http": {
"code": 200,

```
            "method": "POST",
            "uri": "/user/StartProductSubscription"
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
        "type": "structure",
        "members": {
          "Username": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
              "smithy.api#required": {}
            }
          },
          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
             "traits": {
              "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "Product": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
              "smithy.api#required": {}
            }
          },
          "Domain": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
        "type": "structure",
         "members": {
          "ProductUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the start product subscription
operation.</p>",
              "smithy.api#required": {}
            }
          }
```

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            }
        },
        "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
            "type": "operation",
            "input": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
            },
            "output": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
            },
            "errors": [
                {
                    "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

    },
                {
                    "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
                },
                {
                    "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
                },
                {
                    "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
                },
                {
                    "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
                },
                {
                    "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
                },
                {
                    "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
                }
            ],
            "traits": {
                "smithy.api#documentation": "<p>Stops a product subscription for a user with the specified identity
provider.</p>",
                 "smithy.api#http": {
                    "code": 200,
                    "method": "POST",
                    "uri": "/user/StopProductSubscription"
                }
            }
        },
        "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
            "type": "structure",
            "members": {
                "Username": {
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"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required":
{}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
"type": "structure",
"members": {
"ProductUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
"traits": {
"smithy.api#documentation":
" Metadata that describes the start product subscription operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StringList": {
"type": "list",
"member": {
"target": "smithy.api#String"
}
},

"com.amazonaws.licensemanagerusersubscriptions#Subnet": {
"type": "string",
"traits": {
"smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Subnets": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
"type": "structure",
"members": {
"message": {

"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request was denied because of request throttling. Retry the request. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],

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        "traits": {
            "smithy.api#documentation": "<p>Updates additional product configuration settings for the registered
identity\n      provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/UpdateIdentityProviderSettings"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                 "traits": {
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "UpdateSettings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
                "traits": {
                    "smithy.api#documentation": "<p>Updates the registered identity providers product related
configuration settings. You can\n      update any combination of settings in a single operation such as the:</p>\n
<ul>\n            <li>\n                <p>Subnets which you want to add to provision VPC endpoints.</p>\n            </li>\n
            <li>\n                <p>Subnets which you want to remove the VPC endpoints from.</p>\n            </li>\n
<li>\n                <p>Security group ID which permits traffic to the VPC endpoints.</p>\n            </li>\n        </ul>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
        "type": "structure",
        "members": {
            "IdentityProviderSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
                "traits": {
                    "smithy.api#required": {}
                }
```

```
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
        "type": "structure",
        "members": {
            "AddSubnets": {

             "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of one or more subnets in which License Manager will
create a VPC endpoint for products that\n      require connectivity to activation servers.</p>",
                    "smithy.api#required": {}
                }
            },
            "RemoveSubnets": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of one or more subnets to remove.</p>",
                    "smithy.api#required": {}
                }
            },
            "SecurityGroupId": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
                "traits": {
                    "smithy.api#documentation": "<p>A security group ID
 that allows inbound TCP port 1688 communication between resources in\n      your VPC and the VPC endpoints for
activation servers.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Updates the registered identity providers product related configuration
settings such as\n      the subnets to provision VPC endpoints.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A parameter is not valid.</p>",
            "smithy.api#error": "client"
        }
    }
```

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  }
}
{
  "smithy": "2.0",
  "metadata": {
    "suppressions": [
      {
        "id": "HttpMethodSemantics",
        "namespace": "*"
      },
      {
        "id": "HttpResponseCodeSemantics",
        "namespace": "*"
      },
      {
        "id": "PaginatedTrait",
        "namespace": "*"
      },
      {
        "id": "HttpHeaderTrait",
        "namespace": "*"
      },
      {
        "id": "HttpUriConflict",
        "namespace": "*"
      },
      {
        "id": "Service",
        "namespace": "*"
      }
    ]
  },
  "shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
      "type": "service",
      "version": "2018-08-01",
      "operations": [
        {
          "target": "com.amazonaws.licensemanager#AcceptGrant"
        },

 {
          "target": "com.amazonaws.licensemanager#CheckInLicense"
        },
        {
          "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
        },
        {
```

"target": "com.amazonaws.licensemanager#CheckoutLicense"
},
{
"target": "com.amazonaws.licensemanager#CreateGrant"
},
{
"target": "com.amazonaws.licensemanager#CreateGrantVersion"
},
{
"target": "com.amazonaws.licensemanager#CreateLicense"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseVersion"
},
{
"target": "com.amazonaws.licensemanager#CreateToken"
},
{
"target": "com.amazonaws.licensemanager#DeleteGrant"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicense"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#DeleteToken"
},
{
"target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

},
{
"target": "com.amazonaws.licensemanager#GetAccessToken"
},

{
"target": "com.amazonaws.licensemanager#GetGrant"
},
{
"target": "com.amazonaws.licensemanager#GetLicense"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseUsage"
},
{
"target": "com.amazonaws.licensemanager#GetServiceSettings"
},
{
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#ListDistributedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
"target": "com.amazonaws.licensemanager#ListLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

"target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization"
},
{
"target": "com.amazonaws.licensemanager#ListResourceInventory"
},
{
"target": "com.amazonaws.licensemanager#ListTagsForResource"
},
{
"target": "com.amazonaws.licensemanager#ListTokens"
},
{
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#RejectGrant"
},
{
"target": "com.amazonaws.licensemanager#TagResource"
},
{
"target": "com.amazonaws.licensemanager#UntagResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateServiceSettings"
}
],

"traits": {
"aws.api#service": {
"sdkId": "License Manager",
"arnNamespace": "license-manager",
"cloudFormationName": "LicenseManager",
"cloudTrailEventSource": "licensemanager.amazonaws.com",
"endpointPrefix": "license-manager"
},
"aws.auth#sigv4": {
"name": "license-manager"
},
"aws.protocols#awsJson1_1": {},
"smithy.api#documentation": " License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers. ",
"smithy.api#title": "AWS License Manager",
"smithy.api#xmlNamespace": {
"uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
},
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",

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            "type": "String"
        }
    },
    "rules": [
        {
            "conditions": [
                {
                    "fn": "isSet",
                    "argv": [
                        {
                            "ref": "Endpoint"
                        }
                    ]

            }
            ],
            "type": "tree",
            "rules": [
                {
                    "conditions": [
                        {
                            "fn": "booleanEquals",
                            "argv": [
                                {
                                    "ref": "UseFIPS"
                                },
                                true
                            ]
                        }
                    ],
                    "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
                    "type": "error"
                },
                {

"conditions": [
                        {
                            "fn": "booleanEquals",
                            "argv": [
                                {
                                    "ref": "UseDualStack"
                                },
                                true
                            ]
                        }
                    ],
                    "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                    "type": "error"
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```
            },
            {
                "conditions": [],
                "endpoint": {
                    "url": {
                        "ref": "Endpoint"
                    },
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ]
    },
    {
        "conditions": [
            {
                "fn": "isSet",
                "argv": [
                    {
                        "ref": "Region"
                    }
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "aws.partition",
                        "argv": [
                            {
                                "ref": "Region"
                            }
                        ],
                        "assign": "PartitionResult"
                    }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    {
                                        "ref":
```

"UseFIPS"

```
                    },
                    true
                ]
            },
            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseDualStack"
                    },
                    true
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
                            {
                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsFIPS"
                                ]

                }
                        ]
                    },
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
                            {
                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
```

"supportsDualStack"

```
                                ]
```

```
                    }
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [],
                "endpoint": {
                    "url": "https://license-manager-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                    "properties": {},
                    "headers": {}

        },
                "type": "endpoint"
            }
        ]
    },
    {
        "conditions": [],
        "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
        "type": "error"
    }
  ]
},
{
  "conditions": [
    {
        "fn": "booleanEquals",

  "argv": [
            {
                "ref": "UseFIPS"
            },
            true
        ]
    }
  ],
  "type": "tree",
  "rules": [
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    true,
```

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{
                "fn": "getAttr",
                "argv": [
                  {
                    "ref": "PartitionResult"
                  },
                  "supportsFIPS"
                ]
              }
            ]
          }
        ],
        "type": "tree",
        "rules": [

{
            "conditions": [],
            "endpoint": {
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              "properties": {},
              "headers": {}
            },
            "type": "endpoint"
          }
        ]
      },
      {
        "conditions": [],
        "error": "FIPS is enabled but this
partition does not support FIPS",
        "type": "error"
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    ]
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  {
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        "argv": [
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                        "argv": [
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                            "argv": [
                              {
                                "ref": "PartitionResult"
                              },

"supportsDualStack"
                            ]
                          }
                        ]
                      }
                    ],
                    "type": "tree",
                    "rules": [
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                        "conditions": [],
                        "endpoint": {
                          "url": "https://license-
manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
                          "properties": {},
                          "headers": {}

                },
                        "type": "endpoint"
                      }
                    ]
                  },
                  {
                    "conditions": [],
                    "error": "DualStack is enabled but this partition does not support DualStack",
                    "type": "error"
                  }
                ]
              },
              {
                "conditions": [],
                "endpoint": {
                  "url": "https://license-manager.{Region}.{PartitionResult#dnsSuffix}",
                   "properties": {},
                  "headers": {}
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```
                    },
                    "type": "endpoint"
                }
            ]
        }
    ]
},
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    "conditions": [],
    "error": "Invalid Configuration: Missing Region",
    "type": "error"
}
]
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"smithy.rules#endpointTests": {
    "testCases": [
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            "expect": {
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{
                    "url": "https://license-manager.af-south-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "af-south-1",
                "UseFIPS": false,
                "UseDualStack": false
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                }
            },
            "params": {
                "Region": "ap-east-1",
                "UseFIPS": false,
                "UseDualStack": false
             }
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            "documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.ap-northeast-1.amazonaws.com"
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            }
        },
        "params": {
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            "UseFIPS": false,
            "UseDualStack": false
        }
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        "expect": {
            "endpoint": {
                "url": "https://license-manager.ap-northeast-2.amazonaws.com"
             }
        },
        "params": {
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            "UseFIPS": false,
            "UseDualStack": false
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        "expect": {
            "endpoint": {
                "url": "https://license-manager.ap-northeast-3.amazonaws.com"
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        "params": {
            "Region": "ap-northeast-3",
            "UseFIPS": false,
            "UseDualStack": false
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        "expect": {
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        },
        "params": {
            "Region": "ap-south-1",
            "UseFIPS": false,
            "UseDualStack": false
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    },
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          "documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
          "expect": {
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}
          },
          "params": {
            "Region": "ap-southeast-1",
            "UseFIPS": false,
            "UseDualStack": false
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          "documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ap-southeast-2.amazonaws.com"
            }
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          "params": {
            "Region": "ap-southeast-2",
            "UseFIPS": false,
            "UseDualStack": false
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"documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ap-southeast-3.amazonaws.com"
            }
          },
          "params": {
            "Region": "ap-southeast-3",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
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          "documentation": "For region ca-central-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ca-central-1.amazonaws.com"
            }
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"params": {
"Region": "ca-central-1",
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"UseDualStack": false
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"documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
"expect": {
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"params": {
"Region": "eu-central-1",
"UseFIPS": false,
"UseDualStack": false
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disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-north-1.amazonaws.com"
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"params": {
"Region": "eu-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-south-1.amazonaws.com"
}
},
"params": {
"Region":
"eu-south-1",
"UseFIPS": false,
"UseDualStack": false
}
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        {
          "documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
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            }
          },
          "params": {
            "Region": "eu-west-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
          "expect": {

          "endpoint": {
              "url": "https://license-manager.eu-west-2.amazonaws.com"
            }
          },
          "params": {
            "Region": "eu-west-2",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
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          "documentation": "For region eu-west-3 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.eu-west-3.amazonaws.com"
            }
          },
          "params": {
            "Region": "eu-west-3",
            "UseFIPS": false,

"UseDualStack": false
          }
        },
        {
          "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.me-south-1.amazonaws.com"
            }
          },
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"params": {
"Region": "me-south-1",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.sa-east-1.amazonaws.com"
}
},
"params": {
"Region": "sa-east-1",
"UseFIPS": false,
"UseDualStack": false
}
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"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
}

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"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
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"url": "https://license-manager-fips.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",

"expect": {
"endpoint": {
"url": "https://license-manager.us-east-2.amazonaws.com"
}

},
"params": {
"Region": "us-east-2",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-east-2.amazonaws.com"
}
},
"params": {
"Region": "us-east-2",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region
us-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-west-1.amazonaws.com"
}
},
"params": {
"Region": "us-west-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
"expect": {
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"url": "https://license-manager-fips.us-west-1.amazonaws.com"
}
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"params": {

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"UseFIPS": true,
"UseDualStack": false
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{
"documentation": "For region us-west-2 with FIPS disabled and DualStack disabled",
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"url": "https://license-manager.us-west-2.amazonaws.com"
}
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"params": {
"Region": "us-west-2",
"UseFIPS": false,
"UseDualStack": false
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{
"documentation": "For region us-west-2 with FIPS enabled and DualStack disabled",

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"url": "https://license-manager-fips.us-west-2.amazonaws.com"
}
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"params": {
"Region": "us-west-2",
"UseFIPS": true,
"UseDualStack": false
}
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{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,

"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",

"expect": {
"endpoint": {
"url": "https://license-manager.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url":
"https://license-manager.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-northwest-1",
"UseFIPS": false,
"UseDualStack": false

}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",

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            "UseFIPS": true,
            "UseDualStack": true
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    },
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        "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
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        },
        "params": {
            "Region": "cn-north-1",
            "UseFIPS": true,
            "UseDualStack": false
        }
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        "expect": {
            "endpoint": {
                "url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
            }
        },
        "params": {
            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": true
        }
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{
        "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.us-gov-east-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
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"url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
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"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-gov-west-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-west-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation":
"For region us-gov-west-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
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"params": {
"Region": "us-gov-west-1",
"UseFIPS": true,
"UseDualStack": false
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"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
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}
},

"params": {
"Region": "us-gov-east-1",
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"UseDualStack": true

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            }
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            "expect": {
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            "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": false,
                "UseDualStack": true
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            "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack
disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
                }
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
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            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": true,
                 "UseDualStack": true
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        {
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            "expect": {
                "endpoint": {
                    "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
                }
            },
            "params": {
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"expect": {
"error": "DualStack is enabled
but this partition does not support DualStack"
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"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": true
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"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
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"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
}
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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"Region": "us-isob-east-1",
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"UseDualStack": true
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"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
}

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                },

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                    "Region": "us-isob-east-1",
                    "UseFIPS": true,
                    "UseDualStack": false
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            },
            {
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                "expect": {
                    "error": "DualStack is enabled but this partition does not support DualStack"
                },
                "params": {
                    "Region": "us-isob-east-1",
                    "UseFIPS": false,
                    "UseDualStack": true
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                "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

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                "params": {
                    "Region": "us-east-1",
                    "UseFIPS": false,
                    "UseDualStack": false,
                    "Endpoint": "https://example.com"
                }
            },
            {
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disabled",
                "expect": {
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                },
                "params": {
                    "UseFIPS": false,

        "UseDualStack": false,
                    "Endpoint": "https://example.com"
                }
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                },
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                    "expect": {
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                    "params": {
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                        "UseFIPS": true,
                        "UseDualStack": false,
                        "Endpoint": "https://example.com"
                    }
                },
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                    "expect": {
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"Invalid Configuration: Dualstack and custom endpoint are not supported"
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                        "UseFIPS": false,
                        "UseDualStack": true,
                        "Endpoint": "https://example.com"
                    }
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                    "expect": {
                        "error": "Invalid Configuration: Missing Region"
                    }
                }
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            "version": "1.0"
        }
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"com.amazonaws.licensemanager#AcceptGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#AcceptGrantRequest"

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    "output": {
        "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
    },
    "errors": [
        {
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"target": "com.amazonaws.licensemanager#AccessDeniedException"
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"target": "com.amazonaws.licensemanager#AuthorizationException"
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"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
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"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"

}
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"traits": {
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"com.amazonaws.licensemanager#AcceptGrantRequest": {
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"members": {
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"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#AcceptGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant

ARN. "
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": " Grant status. "
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": " Grant version. "
            }
          }
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        "traits": {
          "smithy.api#output": {}
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      "com.amazonaws.licensemanager#AccessDeniedException": {
        "type": "structure",
        "members": {
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "aws.protocols#awsQueryError": {

"code": "ServiceAccessDenied",
            "httpResponseCode": 401
          },
          "smithy.api#documentation": " Access to resource denied. ",
          "smithy.api#error": "client",
          "smithy.api#httpError": 401
        }
      },
      "com.amazonaws.licensemanager#ActivationOverrideBehavior": {
        "type": "enum",
        "members": {
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            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
            }
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          "ALL_GRANTS_PERMITTED_BY_ISSUER": {

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            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
            }
        }
    }
  },
  "com.amazonaws.licensemanager#AllowedOperation": {

  "type": "enum",
    "members": {
        "CREATE_GRANT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "CreateGrant"
            }
        },
        "CHECKOUT_LICENSE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "CheckoutLicense"
            }
        },
        "CHECKOUT_BORROW_LICENSE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "CheckoutBorrowLicense"
            }
        },
        "CHECK_IN_LICENSE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "CheckInLicense"
            }
        },
        "EXTEND_CONSUMPTION_LICENSE":
{
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "ExtendConsumptionLicense"
            }
        },
        "LIST_PURCHASED_LICENSES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "ListPurchasedLicenses"
            }
        },
```

"CREATE_TOKEN": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CreateToken"
}
}
}
},
"com.amazonaws.licensemanager#AllowedOperationList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#AllowedOperation"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max":
7
}
}
},
"com.amazonaws.licensemanager#Arn": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
}
},
"com.amazonaws.licensemanager#ArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
}
},
"com.amazonaws.licensemanager#AuthorizationException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError":

{
"code": "AuthorizationFailure",
"httpResponseCode": 403
},
"smithy.api#documentation": " The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n policy associated with this account. ",
"smithy.api#error": "client",
"smithy.api#httpError": 403
}
},
"com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
"type": "structure",
"members": {
"LastRunTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time that automated discovery last ran. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes automated discovery. "
}
},

"com.amazonaws.licensemanager#Boolean": {
"type": "boolean",
"traits": {
"smithy.api#default": false
}
},
"com.amazonaws.licensemanager#BorrowConfiguration": {
"type": "structure",
"members": {
"AllowEarlyCheckIn": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether early check-ins are allowed. ",
"smithy.api#required": {}
}
},
"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the borrow configuration, in minutes. ",
"smithy.api#required": {}
}
}

```
},
        "traits": {
            "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#BoxBoolean": {
        "type": "boolean"
    },
    "com.amazonaws.licensemanager#BoxInteger": {
        "type": "integer"
    },
    "com.amazonaws.licensemanager#BoxLong": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#CheckInLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"

     },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
```

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseRequest":
{
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicense":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members":
{
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
                    "smithy.api#required": {}
                }
```

```
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
                    "smithy.api#required": {}
                }
            },
            "DigitalSignatureMethod": {
                "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
                "traits": {
                    "smithy.api#documentation": "<p>Digital signature method. The possible
 value is JSON Web Signature (JWS) algorithm PS384.\n        For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>",
                    "smithy.api#required": {}
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation":
 "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
```

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed":
{
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " Allowed license entitlements. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"SignedToken": {
"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout
is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
}
},

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target":
"com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks out the specified license. \n <note>\n If the
account that created the license is the same that is performing the check out, you must\n specify the account

as the beneficiary. \n </note>"
  }
},
"com.amazonaws.licensemanager#CheckoutLicenseRequest": {
  "type": "structure",
  "members": {
    "ProductSKU": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": " Product
 SKU. ",
        "smithy.api#required": {}
      }
    },
    "CheckoutType": {
      "target": "com.amazonaws.licensemanager#CheckoutType",
      "traits": {
        "smithy.api#documentation": " Checkout type. ",
        "smithy.api#required": {}
      }
    },
    "KeyFingerprint": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": " Key fingerprint identifying the license. ",
        "smithy.api#required": {}
      }
    },
    "Entitlements": {
      "target": "com.amazonaws.licensemanager#EntitlementDataList",
      "traits": {
        "smithy.api#documentation": " License entitlements. ",

"smithy.api#required": {}
      }
    },
    "ClientToken": {
      "target": "com.amazonaws.licensemanager#ClientToken",
      "traits": {
        "smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request. ",
        "smithy.api#required": {}
      }
    },
    "Beneficiary": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": " License beneficiary. "

```
            }
        },
        "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        }
    },
    "traits": {

   "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
    "type": "structure",
    "members": {
        "CheckoutType": {
            "target": "com.amazonaws.licensemanager#CheckoutType",
            "traits": {
                "smithy.api#documentation": "<p>Checkout type.</p>"
            }
        },
        "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
            }
        },
        "EntitlementsAllowed": {
            "target": "com.amazonaws.licensemanager#EntitlementDataList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
            }
        },
         "SignedToken": {
            "target": "com.amazonaws.licensemanager#SignedToken",
            "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
            }
        },
        "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        },
        "IssuedAt": {
```

"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and
time at which the license checkout expires. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the checkout license. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutType": {
"type": "enum",
"members": {
"PROVISIONAL": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PROVISIONAL"
}
},
"PERPETUAL": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PERPETUAL"
}
}
}
},
"com.amazonaws.licensemanager#ClientRequestToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 36
}
}

```
    },
    "com.amazonaws.licensemanager#ClientToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 2048
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
    "com.amazonaws.licensemanager#ConflictException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ConflictException",
                "httpResponseCode":
 409
            },
            "smithy.api#documentation": "<p>There was a conflict processing the request. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 409
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
                }
            },
            "ConsumedLicenses": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
                }
            }
        },
```

```
"traits": {
            "smithy.api#documentation": "<p>Details about license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
        }
    },
    "com.amazonaws.licensemanager#ConsumptionConfiguration": {
        "type": "structure",
        "members": {
            "RenewType": {
                "target": "com.amazonaws.licensemanager#RenewType",
                "traits": {
                    "smithy.api#documentation": "<p>Renewal frequency.</p>"
                }
            },
            "ProvisionalConfiguration": {
                "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
                 }
            },
            "BorrowConfiguration": {
                "target": "com.amazonaws.licensemanager#BorrowConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
```

{
"target":
"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a grant for the specified license. A grant shares the use of license\n entitlements with a specific Amazon Web Services account, an organization, or an\n organizational unit (OU). For more
information, see Granted licenses in License Manager in the License Manager User Guide. "
}
},
"com.amazonaws.licensemanager#CreateGrantRequest": {
"type": "structure",
"members": {
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}

}
},
"LicenseArn": {

"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Principals": {
"target": "com.amazonaws.licensemanager#PrincipalArnList",
"traits": {
"smithy.api#documentation": " The grant principals. You can specify one of the following as an Amazon Resource Name\n (ARN): \n \n \n An Amazon Web Services account, which includes only the account specified. \n \n \n \n \n An organizational unit (OU), which includes all accounts in the OU. \n \n \n \n \n An organization, which will include all accounts across your organization. \n \n ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},

"com.amazonaws.licensemanager#CreateGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},

```
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersion":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
             },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
```

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information,
see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",

  "smithy.api#required": {}
                }
            },
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>"
                }
            },
            "AllowedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                 "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status reason.</p>"
```

```
            }
        },
        "SourceVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Current version of the grant.</p>"
            }
        },
        "Options": {
            "target": "com.amazonaws.licensemanager#Options",
            "traits": {
                "smithy.api#documentation": "<p>The options specified for the grant.</p>"
            }
        }
    },
     "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>New version of the grant.</p>"
            }
        }
    },
    "traits":
{
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicense": {
    "type": "operation",
```

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    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a license.</p>"
    }
},
"com.amazonaws.licensemanager#CreateLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license configuration.</p>\n        <p>A license configuration is an abstraction of a customer license agreement that can be\n        consumed and enforced by License Manager. Components include specifications for the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n        Dedicated Instance, Dedicated Host, or all of these), license affinity  to host (how long a \n        license must be associated with a host), and the number of licenses purchased and used.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the license configuration.</p>"
                }
            },
            "LicenseCountingType": {
                "target": "com.amazonaws.licensemanager#LicenseCountingType",
                "traits": {
                    "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
```

"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows. \n \n \n \n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n <code>licenseAffinityToHost</code> |\n <code>maximumCores</code> | <code>minimumCores</code>\n \n \n \n \n <code>Instances</code> dimension: <code>allowedTenancy</code> | \n <code>maximumCores</code> | <code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n \n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n <code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code>\n \n \n \n \n <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n <code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>. "
}
},

"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the license configuration. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "

```
                }
            },
            "ProductInformationList": {
                "target": "com.amazonaws.licensemanager#ProductInformationList",
                "traits": {
                    "smithy.api#documentation": "<p>Product information.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse":
{
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {

                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting
from. \n\n        For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            },
            "DestinationLicenseContext":
 {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting to.
For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
```

```
    }
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
    "type": "structure",
    "members": {
        "LicenseConversionTaskId": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

   "traits": {
                "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
         },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
```

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a report generator. "
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"ReportGeneratorName":
{
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types an be generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}

}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " Defines the type of license configuration the report generator tracks. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",

"traits": {
"smithy.api#documentation": " Unique,
case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the new report
generator. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseRequest": {
"type": "structure",
"members": {
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}

},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product
name. ",
"smithy.api#required": {}
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits": {
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region for the license. ",
"smithy.api#required": {}

}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-
UTC format. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},

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        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
    }
```

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    },
    "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target":
"com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "LicenseName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License name.</p>",
            "smithy.api#required": {}
          }
        },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product name.</p>",
            "smithy.api#required": {}
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#Issuer",
          "traits":
{
            "smithy.api#documentation": "<p>License issuer.</p>",
            "smithy.api#required": {}
          }
        },
        "HomeRegion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Home Region of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "Validity": {
          "target": "com.amazonaws.licensemanager#DatetimeRange",
          "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
            "smithy.api#required": {}
          }
```

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            },
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license.</p>"
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",
                    "smithy.api#required": {}
                }
            },
            "ConsumptionConfiguration": {
                "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n         running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n         usage.</p>",
                    "smithy.api#required": {}
                }
            },

   "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>",
                    "smithy.api#required": {}
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>"
                }
            }
        },
        "traits": {
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"smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": " License ARN. "
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " New version of the license. "
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": " License status. "
                }
            }
        },
        "traits": {
            "smithy.api#output":
{}
        }
    },
    "com.amazonaws.licensemanager#CreateToken": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateTokenResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },

{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},

{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a long-lived token. \n A refresh token is a JWT token used to get an access token. With an access token,\n you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n call License Manager to manage the specified license. "
}
},
"com.amazonaws.licensemanager#CreateTokenRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits":
{
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n JWT token. ",
"smithy.api#required": {}
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n License Manager does not check whether the roles are in use. "
}
},
"ExpirationInDays": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Token expiration, in days, counted from token creation. The default is 365 days. "
}

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            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Data specified by the caller to be included in the JWT token. The
data is mapped\n          to the amr claim of the JWT token.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Idempotency token, valid for 10 minutes.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateTokenResponse": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",

                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
            "TokenType": {
                "target": "com.amazonaws.licensemanager#TokenType",
                "traits": {
                    "smithy.api#documentation": "<p>Token type.</p>"
                }
            },
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DateTime": {
```

```
    "type": "timestamp"
  },
  "com.amazonaws.licensemanager#DatetimeRange": {
    "type": "structure",
    "members": {
      "Begin": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
          "smithy.api#documentation": "<p>Start of the time range.</p>",
          "smithy.api#required": {}
        }
      },
      "End": {
        "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
          "smithy.api#documentation": "<p>End of the time range.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
    }
  },
  "com.amazonaws.licensemanager#DeleteGrant": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
     },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
      },
      {
```

"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes
the specified grant. "
}
},
"com.amazonaws.licensemanager#DeleteGrantRequest": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " The Status reason for the delete request. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the
grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}

```
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
```

"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license configuration. \n You cannot delete a license configuration that is in use. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
"type": "structure",
"members":
{
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

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            "smithy.api#documentation": "<p>ID of the license configuration.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
       },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
```

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified report generator.</p>\n        <p>This action deletes the report generator, which stops it from generating future reports.\n        The action cannot be reversed. It has no effect on the previous reports from this generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to be deleted.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {

 "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>",
                    "smithy.api#required":
```

{}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseResponse": {
"type": "structure",
"members": {
"Status": {
"target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"DeletionDate": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date when the license is deleted. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"

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            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },

        {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}

      }
    },
    "com.amazonaws.licensemanager#DigitalSignatureMethod": {
        "type": "enum",
        "members": {
            "JWT_PS384": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "JWT_PS384"
                }
```

```
            }
        }
    },
    "com.amazonaws.licensemanager#Entitlement": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement name.</p>",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement resource. Use only
if the unit is None.</p>"
                }
            },
            "MaxCount": {
                "target": "com.amazonaws.licensemanager#Long",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
                }
            },
            "Overage": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether overages are allowed.</p>"
                }
            },
            "Unit": {
                "target": "com.amazonaws.licensemanager#EntitlementUnit",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement unit.</p>",
                    "smithy.api#required": {}
                }
            },
            "AllowCheckIn": {
                "target":
"com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether check-ins are allowed.</p>"
                }
            }
        },
        "traits": {
```

"smithy.api#documentation": " Describes a resource entitled for use with a license. "
}
},
"com.amazonaws.licensemanager#EntitlementData": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement
data value. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {
"smithy.api#documentation": " Entitlement data unit. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Data associated with an entitlement resource. "
}
},
"com.amazonaws.licensemanager#EntitlementDataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#EntitlementData"
}
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
"type": "enum",
"members": {
"COUNT": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Count"
}
},

"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"SECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Seconds"
}
},
"MICROSECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Microseconds"
}
},
"MILLISECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Milliseconds"
}
},
"BYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes"
}
},
"KILOBYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes"
}
},
"MEGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes"
}
},
"GIGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes"
}
},

"TERABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"

}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"

```
            }
        },
        "KILOBYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes/Second"
            }
        },
        "MEGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes/Second"
            }
        },
        "GIGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Gigabytes/Second"
            }
        },
        "TERABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabytes/Second"
            }
        },
        "BITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bits/Second"
            }
        },
        "KILOBITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobits/Second"
            }
        },
        "MEGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue":
"Megabits/Second"
            }
        },
        "GIGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
```

"smithy.api#enumValue": "Gigabits/Second"
}
},
"TERABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits/Second"
}
},
"COUNT_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count/Second"
}
}
}
},
"com.amazonaws.licensemanager#EntitlementList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Entitlement"
}
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The entitlement is not allowed. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#EntitlementUnit": {
"type": "enum",
"members": {
"COUNT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count"
}
},
"NONE": {
"target": "smithy.api#Unit",

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            "traits": {
                "smithy.api#enumValue": "None"
            }
        },
        "SECONDS":
{
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Seconds"
            }
        },
        "MICROSECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Microseconds"
            }
        },
        "MILLISECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Milliseconds"
            }
        },
        "BYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bytes"
            }
        },
        "KILOBYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes"
             }
        },
        "MEGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes"
            }
        },
        "GIGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabytes"
            }
        },
        "TERABYTES": {
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"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"
}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target":
"smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"
}

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        },
        "KILOBYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Kilobytes/Second"
          }
        },
        "MEGABYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Megabytes/Second"
          }
        },
        "GIGABYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Gigabytes/Second"
          }
        },
        "TERABYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {

"smithy.api#enumValue": "Terabytes/Second"
          }
        },
        "BITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Bits/Second"
          }
        },
        "KILOBITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Kilobits/Second"
          }
        },
        "MEGABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Megabits/Second"
          }
        },
        "GIGABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Gigabits/Second"
```

```
            }
        },

    "TERABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits/Second"
            }
        },
        "COUNT_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Count/Second"
            }
        }
    }
},
"com.amazonaws.licensemanager#EntitlementUsage": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                "smithy.api#required": {}
            }
        },
        "ConsumedValue": {
            "target": "com.amazonaws.licensemanager#String",

        "traits": {
                "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxCount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                "smithy.api#required": {}
            }
        }
```

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        },
        "traits": {
            "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementUsageList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
```

"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",
"smithy.api#required": {}

}
},
"DryRun": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#default": false,
"smithy.api#documentation": " Checks whether you have the required permissions for the action, without actually making the request. Provides an error response if you do not have the required permissions. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},

"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license consumption expires. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#FailedDependencyException": {
"type": "structure",
"members": {
"Message": {

"target": "com.amazonaws.licensemanager#Message"
},
"ErrorCode": {
"target": "com.amazonaws.licensemanager#String"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FailedDependency",
"httpResponseCode": 424
},
"smithy.api#documentation":
" A dependency required to run the API is missing. ",
"smithy.api#error": "client",
"smithy.api#httpError": 424
}
},
"com.amazonaws.licensemanager#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#FilterName",
"traits": {
"smithy.api#documentation": " Name of the filter. Filter names are case-sensitive. "
}
},
"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " The value of the filter, which is case-sensitive. You can only
specify one value for the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter
name and value pair that is used to return more specific results from a\n describe operation. Filters can be used
to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {

```
        "aws.protocols#awsQueryError": {
            "code": "FilterLimitExceeded",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#FilterList": {
    "type": "list",
     "member": {
        "target": "com.amazonaws.licensemanager#Filter"
    }
},
"com.amazonaws.licensemanager#FilterName": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#FilterValue",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#Filters": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Filter",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#GetAccessToken": {
    "type": "operation",
    "input": {
         "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
    },
    "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access
 tokens\n          are valid for one hour.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenRequest": {
        "type": "structure",
        "members": {
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT
token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenResponse":
 {
        "type": "structure",
        "members": {
```

```
        "AccessToken": {
            "target": "com.amazonaws.licensemanager#TokenString",
            "traits": {
                "smithy.api#documentation": "<p>Temporary access token.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"

    },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
```

```
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
                "smithy.api#documentation": "<p>Grant details.</p>"
            }
        }
    },
    "traits": {

"smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
```

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"

},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license configuration. "

```
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits":
 {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            },
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>"
                 }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the license configuration.</p>"
                }
            },
            "LicenseCountingType": {
                "target": "com.amazonaws.licensemanager#LicenseCountingType",
```

"traits": {
"smithy.api#documentation": " Dimension for which the licenses are counted. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",

"traits": {
"smithy.api#documentation": " Number of available licenses. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Sets the number of available licenses as a hard limit. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses assigned to resources. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License configuration status. "
}

},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},

"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When
true, disassociates a resource when software is uninstalled. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified license type conversion task. "
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. "

```
            }
        },
        "SourceLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information
about the license type converted from.</p>"
            }
        },
        "DestinationLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license type converted to.</p>"
            }
        },
        "StatusMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
            "traits": {
                "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
            }
        },

  "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
            }
        },
        "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
            }
        },
        "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
            }
        }
    },
```

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGenerator":
{
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified report generator. "
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. ",
"smithy.api#required":
{}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"ReportGenerator": {
"target": "com.amazonaws.licensemanager#ReportGenerator",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic reports about your license configurations. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#input": {}
}

```
    },
    "com.amazonaws.licensemanager#GetLicenseResponse": {
        "type": "structure",
        "members": {
            "License": {
                "target": "com.amazonaws.licensemanager#License",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },

"com.amazonaws.licensemanager#GetLicenseUsage": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

"target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
        }
```

```
    },
    "com.amazonaws.licensemanager#GetLicenseUsageRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageResponse": {
      "type": "structure",
      "members": {
        "LicenseUsage": {
          "target":
"com.amazonaws.licensemanager#LicenseUsage",
          "traits": {
            "smithy.api#documentation": "<p>License usage details.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
discovery data,\n        and so on.</p>"

  }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>SNS topic configured to receive notifications from License
Manager.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether Organizations is integrated with License
Manager for\n        cross-account discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether cross-account discovery is enabled.</p>"
                }
```

```
        },
            "LicenseManagerResourceShareArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
Manager management account \n        provides member accounts with access to this share.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Grant": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {

 "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ParentArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Parent ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>License ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "GranteePrincipalArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
```

"smithy.api#documentation": " The grantee principal ARN. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. ",
"smithy.api#required": {}
}
},
"GrantedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Granted operations. ",
"smithy.api#required": {}
}
},
"Options": {
"target": "com.amazonaws.licensemanager#Options",
"traits": {
"smithy.api#documentation": " The options specified for the grant. "
}
}
},
"traits": {
"smithy.api#documentation":

" Describes a grant. "
        }
    },
    "com.amazonaws.licensemanager#GrantList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Grant"
        }
    },
    "com.amazonaws.licensemanager#GrantStatus": {
        "type": "enum",
        "members": {
            "PENDING_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_WORKFLOW"
                }
            },
            "PENDING_ACCEPT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_ACCEPT"
                }
            },
            "REJECTED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "REJECTED"

            }
            },
            "ACTIVE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "ACTIVE"
                }
            },
            "FAILED_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "FAILED_WORKFLOW"
                }
            },
            "DELETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DELETED"
                }

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            },
            "PENDING_DELETE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_DELETE"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                "traits":
{
                    "smithy.api#enumValue": "DISABLED"
                }
            },
            "WORKFLOW_COMPLETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "WORKFLOW_COMPLETED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GrantedLicense": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>"
                }

  },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product name.</p>"
                }
            },
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>"
```

```
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>Granted license issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the granted license.</p>"

         }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>Granted license status.</p>"
            }
        },
        "Validity": {
            "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {
                "smithy.api#documentation": "<p>Date and time range during which the granted license is valid, in
ISO8601-UTC format.</p>"
            }
        },
        "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Granted license beneficiary.</p>"
            }
        },
        "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
             "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>"
            }
        },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
            }
        },
        "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Granted license metadata.</p>"
            }
        },
        "CreateTime": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Creation time of the granted license.</p>"

  }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Version of the granted license.</p>"
            }
        },
        "ReceivedMetadata": {
            "target": "com.amazonaws.licensemanager#ReceivedMetadata",
            "traits": {
                "smithy.api#documentation": "<p>Granted license received metadata.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes a license that is granted to a grantee.</p>"
    }
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#GrantedLicense"
    }
},
"com.amazonaws.licensemanager#ISO8601DateTime":
{
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 50
        },
        "smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-
1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[ 0-3]|[0-1][0-9]):[0-5][0-9])+$"
    }
},
"com.amazonaws.licensemanager#Integer": {
    "type": "integer"
```

```
    },
    "com.amazonaws.licensemanager#InvalidParameterValueException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidParameterValueProvided",
                "httpResponseCode": 400
            },
            "smithy.api#documentation":
 "<p>One or more parameter values are not valid.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InvalidResourceStateException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidResourceState",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n        <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },

    "com.amazonaws.licensemanager#InventoryFilter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the filter.</p>",
                    "smithy.api#required": {}
                }
```

```
        },
        "Condition": {
            "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
            "traits": {
                "smithy.api#documentation": "<p>Condition of the filter.</p>",
                "smithy.api#required": {}
            }
        },
        "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Value of the filter.</p>"
            }
        }

    },
    "traits": {
        "smithy.api#documentation": "<p>An inventory filter.</p>"
    }
  },
  "com.amazonaws.licensemanager#InventoryFilterCondition": {
    "type": "enum",
    "members": {
        "EQUALS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EQUALS"
            }
        },
        "NOT_EQUALS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "NOT_EQUALS"
            }
        },
        "BEGINS_WITH": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "BEGINS_WITH"
            }
        },
        "CONTAINS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "CONTAINS"
            }
        }
    }
```

```
    },
    "com.amazonaws.licensemanager#InventoryFilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#InventoryFilter"
        }
    },
    "com.amazonaws.licensemanager#Issuer": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>",
                    "smithy.api#required": {}
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage
 of sign and verify, \n         and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about the issuer of a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#IssuerDetails": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>"
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n         and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
                }
            },
            "KeyFingerprint": {
```

```
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
    }
},
"com.amazonaws.licensemanager#License": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

       "smithy.api#documentation": "<p>License name.</p>"
            }
        },
        "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product name.</p>"
            }
        },
        "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product SKU.</p>"
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>License issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Home Region of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"Entitlements": {

"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " License metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License creation time. "
}
},

```
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
    "type": "structure",
    "members": {
        "LicenseConfigurationId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
            }
        },
        "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
        },
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the license configuration.</p>"
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
                "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
             }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules.</p>"
```

```
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Number of available licenses as a hard limit.</p>"
            }
        },
        "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
             "traits": {
                "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses consumed. </p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Status of the license configuration.</p>"
            }
        },
        "OwnerAccountId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Account ID of the license configuration's owner.</p>"

        }
        },
        "ConsumedLicenseSummaryList": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Summaries for licenses consumed by various resources.</p>"
            }
        },
        "ManagedResourceSummaryList": {
            "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
```

"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {

"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource consuming licenses. "
}

```
            },
            "AssociationTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {

    "smithy.api#documentation": "<p>Time when the license configuration was associated with the resource.</p>"
                }
            },
            "AmiAssociationScope": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes an association with a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
        "type": "enum",
        "members":
{
            "AVAILABLE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "AVAILABLE"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DISABLED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
        "type": "structure",
        "members": {
            "ResourceArn": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits":
{
"smithy.api#documentation": " Type of resource. "
}
},
"ResourceStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was initially associated with the resource. "
}
},

"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"

}
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfiguration"
}
},
"com.amazonaws.licensemanager#LicenseConversionContext": {

"type": "structure",
"members": {
"UsageOperation": {
"target": "com.amazonaws.licensemanager#UsageOperation",
"traits": {
"smithy.api#documentation": " The Usage operation value that corresponds to the license type you are converting your resource from. For more information about which platforms correspond to which usage operation values see Sample data: usage operation by platform\n \n "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTask": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {

"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource associated with the license type\n conversion task. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted from. "

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            }
        },
        "DestinationLicenseContext": {
            "target":
 "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license type this conversion task converted
to.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
            "traits": {
                "smithy.api#documentation": "<p>The status of the conversion task.</p>"
            }
        },
        "StatusMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
        },
        "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation":
 "<p>The time the conversion task was started at.</p>"
            }
        },
        "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>The time the usage operation value of the resource was
changed.</p>"
            }
        },
        "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseConversionTaskId": {
```

```
        "type": "string",
        "traits": {

       "smithy.api#length": {
            "min": 0,
            "max": 50
          },
          "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
        "type": "enum",
        "members": {
          "IN_PROGRESS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "IN_PROGRESS"
            }
          },
          "SUCCEEDED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "SUCCEEDED"
            }
          },
          "FAILED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "FAILED"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTasks":
  {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#LicenseConversionTask"
        }
      },
      "com.amazonaws.licensemanager#LicenseCountingType": {
        "type": "enum",
        "members": {
          "VCPU": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "vCPU"
            }
```

```
        },
        "INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Instance"
            }
        },
        "CORE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Core"
            }
        },
        "SOCKET": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Socket"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {
    "type": "enum",
    "members": {
        "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {

    "type": "structure",
    "members": {
```

"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Resource type. "
}
},
"ErrorMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Error message. "
}
},
"FailureTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " Failure time. "
}
},
"OperationName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the operation. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource. "
}
},
"OperationRequestedBy": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The requester is \"License Manager Automated Discovery\". "
}
},
"MetadataList": {

"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {

"smithy.api#documentation": " Reserved. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the failure of a license operation. "
}
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailure"
}
},
"com.amazonaws.licensemanager#LicenseSpecification": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",

"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseSpecification"
}
},
"com.amazonaws.licensemanager#LicenseStatus": {
"type": "enum",
"members": {
"AVAILABLE": {

"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "AVAILABLE"
}
},
"PENDING_AVAILABLE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_AVAILABLE"
}
},
"DEACTIVATED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DEACTIVATED"
}
},
"SUSPENDED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SUSPENDED"
}
},
"EXPIRED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "EXPIRED"
}
},

"PENDING_DELETE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_DELETE"
}
},
"DELETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DELETED"
}
}
}
},
"com.amazonaws.licensemanager#LicenseUsage": {
"type": "structure",
"members": {

"EntitlementUsages": {
"target": "com.amazonaws.licensemanager#EntitlementUsageList",
"traits": {
"smithy.api#documentation": " License entitlement usages. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the entitlement usage associated with a license. "

}
},
"com.amazonaws.licensemanager#LicenseUsageException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "LicenseUsageFailure",
"httpResponseCode": 412
},
"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"

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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the resource associations for the
 specified license configuration.</p>\n        <p>Resource associations need not consume licenses from a license
configuration. \n        For example, an AMI or a stopped instance might not consume a license (depending on \n
the license rules).</p>"
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results
 to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
        "type": "structure",
```

"members": {
"LicenseConfigurationAssociations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license configuration. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants distributed for the specified license. "
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranteePrincipalARN</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",

"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",

"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configuration operations that failed. "
}

```
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
      "type": "structure",
      "members": {
        "LicenseConfigurationArn": {
          "target": "com.amazonaws.licensemanager#String",
           "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
            "smithy.api#required": {}
          }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#BoxInteger",
          "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse":
{
      "type": "structure",
      "members": {
        "LicenseOperationFailureList": {
          "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
          "traits": {
            "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
```

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    },
    "com.amazonaws.licensemanager#ListLicenseConfigurations": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },

    "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations
 for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
```

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next
set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical
operators\n are supported: \n \n \n \n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n
\n <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>. \n
\n \n \n <code>usagelimitExceeded</code> - A Boolean value that
indicates whether the available licenses have been exceeded. \n Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
"type": "structure",
"members": {
"LicenseConfigurations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurations",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},

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    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasks": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
    "type": "structure",
    "members": {
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {

"smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
```

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            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>\n        Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n      </p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTasks": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configuration tasks for your
 account.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
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"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the report generators for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest":
{
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported:
\n \n \n \n <code>LicenseConfigurationArn</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits":
{
"smithy.api#documentation": " Maximum number of results to return in a single call. "

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                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
            "ReportGenerators": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorList",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }

        }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
```

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Describes the license configurations for the specified resource. "
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a resource that has an associated license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {
"LicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " License configurations associated with a resource. "
}
},

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        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
```

```
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
              "smithy.api#documentation": "<p>License details.</p>"
            }
          },

"NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenses": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicensesRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicensesResponse"
        },
```

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses for your account. "
}
},
"com.amazonaws.licensemanager#ListLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>Status</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token

for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#LicenseList",
"traits": {
"smithy.api#documentation": " License details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists grants that are received. Received grants are grants created while specifying the\n recipient as this Amazon Web Services account, your organization, or an organizational unit\n (OU) to which this member account belongs. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},

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            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants received for all accounts in the organization.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the received license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n
    <ul>\n        <li>\n            <p>\n                <code>ParentArn</code>\n            </p>\n        </li>\n
<li>\n            <p>\n                <code>GranteePrincipalArn</code>\n            </p>\n        </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
```

"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Lists the grants the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranterAccountId</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},

```
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
    "type": "structure",
    "members": {
        "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
             "traits": {
                "smithy.api#documentation": "<p>Received grant details.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
         },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists received licenses.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {

    "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
```

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses received for all accounts in the organization. "
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#GrantedLicenseList",
"traits": {
"smithy.api#documentation": " Lists the licenses the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>IssuerName</code>\n \n \n \n \n <code>Beneficiary</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
"type": "structure",

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    "members": {
      "Licenses": {
        "target": "com.amazonaws.licensemanager#GrantedLicenseList",
        "traits": {
          "smithy.api#documentation": "<p>Received license details.</p>"
        }
      },

      "NextToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#ListResourceInventory": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#FailedDependencyException"
      },
      {
        "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
```

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            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                 "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#InventoryFilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource.\n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                    <code>application_name</code> - The name of the application. \n                Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n    </li>\n            <li>\n                <p>\n                    <code>license_included</code> - The type of license included. \n            Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n                Possible values are <code>sql-server-enterprise</code> | \n                <code>sql-server-standard</code> | \n                <code>sql-server-web</code> |  \n                <code>windows-server-datacenter</code>.</p>\n            </li>\n            <li>\n    <p>\n                    <code>platform</code> - The platform of the resource.\n                Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n            </li>\n            <li>\n                <p>\n        <code>resource_id</code> - The ID of the resource. \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n      <code>tag:<key></code> - The key/value combination of a tag assigned \n                to the resource. Logical operators are <code>EQUALS</code> (single account) or\n                <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account).</p>\n            </li>\n        </ul>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
```

"com.amazonaws.licensemanager#ListResourceInventoryResponse": {
"type": "structure",
"members": {
"ResourceInventoryList": {
"target": "com.amazonaws.licensemanager#ResourceInventoryList",
"traits": {
"smithy.api#documentation": " Information
about the resources. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListTagsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the tags for the specified license configuration. "

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        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the tags.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors":
[
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
            "TokenIds": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {

                  "smithy.api#documentation": "<p>Token IDs.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
    <ul>\n            <li>\n                <p>\n                <code>LicenseArns</code>\n                </p>\n            </li>\n
</ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation":
 "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
```

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            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokensResponse": {
        "type": "structure",
        "members": {
            "Tokens": {
                "target": "com.amazonaws.licensemanager#TokenList",
                "traits": {
                    "smithy.api#documentation": "<p>Received token details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying license\n        consumption details by resource at a selected point in time. Use this action to audit the\n        current license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>resourceArn</code> - The ARN of the license configuration resource.\n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>resourceAccount</code> - The ID of the account that owns the resource. \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
                }
            }
```

```
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
        "type": "structure",
        "members": {

"LicenseConfigurationUsageList": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Location": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#Long": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#ManagedResourceSummary": {
        "type": "structure",
        "members": {
            "ResourceType":
{
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
                }
            },
            "AssociationCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
                }
            }
```

```
    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {

"type": "integer",
    "traits": {
        "smithy.api#range": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The key name.</p>"
            }
        },

"Value": {
            "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " The value. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes key/value pairs. "
}
},
"com.amazonaws.licensemanager#MetadataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Metadata"
}
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#Options": {
"type": "structure",
"members": {
"ActivationOverrideBehavior": {
"target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
"traits": {
"smithy.api#documentation": " An activation option for your grant that determines the behavior of activating a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter. \n \n \n As a license administrator, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant. \n \n \n As a grantor, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your organization. \n \n \n As a grantee, if the grantor creating the distributed grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n are activating the grant. \n \n \n <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n Use this value to activate a grant without replacing any member accounts\n active grants for the same product. \n </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n Use this value to activate a

grant and disable other active grants in any\n member accounts
for the same product. This action will also replace their\n previously activated grants with this activated grant. \n </dd>\n </dl>"
}
}
},
"traits": {
"smithy.api#documentation": " The options you can specify when you create a new version of a grant, such as activation\n override behavior. For more information, see Granted licenses in License Manager in the License Manager User Guide. "
}
},
"com.amazonaws.licensemanager#OrganizationConfiguration": {
"type": "structure",
"members": {
"EnableIntegration": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#default": false,
"smithy.api#documentation": " Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n <code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n \n ",
"smithy.api#required": {}
}
}
},

```
    "traits": {
        "smithy.api#documentation": "<p>Describes product information for a license configuration.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
    "type": "structure",
    "members": {
        "ProductInformationFilterName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Filter name.</p>",
                "smithy.api#required": {}
            }
        },
        "ProductInformationFilterValue": {
            "target": "com.amazonaws.licensemanager#StringList",

      "traits": {
                "smithy.api#documentation": "<p>Filter value.</p>"
            }
        },
        "ProductInformationFilterComparator": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Logical operator.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes product information filters.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformationFilter"
    }
},
"com.amazonaws.licensemanager#ProductInformationList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformation"
     }
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
    "type": "structure",
    "members": {
```

"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the provisional configuration, in minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"com.amazonaws.licensemanager#RateLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "RateLimitExceeded",
"httpResponseCode": 429
},
"smithy.api#documentation": " Too many requests have been submitted. Try again after a brief wait. ",
"smithy.api#error": "client",
"smithy.api#httpError": 429
}
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
"type": "structure",
"members": {
"ReceivedStatus": {
"target": "com.amazonaws.licensemanager#ReceivedStatus",
"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Received status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",

```
                "traits": {
                    "smithy.api#documentation": "<p>Allowed operations.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Metadata associated with received licenses and grants.</p>"
        }
    },
    "com.amazonaws.licensemanager#ReceivedStatus": {
        "type": "enum",
        "members": {
            "PENDING_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_WORKFLOW"
                }
            },
            "PENDING_ACCEPT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue":
"PENDING_ACCEPT"
                }
            },
            "REJECTED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "REJECTED"
                }
            },
            "ACTIVE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "ACTIVE"
                }
            },
            "FAILED_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "FAILED_WORKFLOW"
                }
            },
            "DELETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DELETED"
                }
```

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        },
        "DISABLED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DISABLED"
            }
        },
        "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#RedirectException": {
    "type": "structure",
    "members": {
        "Location": {
            "target": "com.amazonaws.licensemanager#Location",
            "traits": {
                "smithy.api#httpHeader": "Location"
            }
        },
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 308
    }
},
"com.amazonaws.licensemanager#RejectGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#RejectGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#RejectGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}

  }
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
```

"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#RenewType":
{
"type": "enum",
"members": {
"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"WEEKLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Weekly"
}
},
"MONTHLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Monthly"
}
}
}
},
"com.amazonaws.licensemanager#ReportContext": {
"type": "structure",
"members": {
"licenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details of the license configuration that this generator reports on. "
}
},
"com.amazonaws.licensemanager#ReportFrequency": {
"type": "structure",
"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "
}
},
"period": {
"target": "com.amazonaws.licensemanager#ReportFrequencyType",

"traits": {
"smithy.api#documentation": " Time period between each report. The period can be daily, weekly, or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"com.amazonaws.licensemanager#ReportFrequencyType": {
"type": "enum",
"members": {
"DAY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DAY"
}
},
"WEEK": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "WEEK"
}
},

"MONTH": {
"target": "smithy.api#Unit",
"traits":
{
"smithy.api#enumValue": "MONTH"
}
}
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the report generator. "
}
},
"ReportType": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports that are generated. "
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " License
configuration type for this generator. "
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. "
}
},
"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}

},
"LastRunFailureReason":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Failure message for the last report generation attempt. "
}
},
"LastReportGenerationTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the last report was generated at. "
}
},
"ReportCreatorAccount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Web Services account ID used to create the report generator. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the report was created. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags associated with the report generator. "
}

}
},
"traits": {
"smithy.api#documentation": " Describe the details of a report generator. "
}
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportGenerator"
}
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
}
}
},
"com.amazonaws.licensemanager#ReportType": {
"type": "enum",
"members": {
"LICENSE_CONFIGURATION_SUMMARY_REPORT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "LicenseConfigurationSummaryReport"
}

},
"LICENSE_CONFIGURATION_USAGE_REPORT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "LicenseConfigurationUsageReport"
}
}
}
},
"com.amazonaws.licensemanager#ReportTypeList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportType"
}
},
"com.amazonaws.licensemanager#ResourceInventory": {
"type": "structure",
"members": {

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            "ResourceId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits":
{
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "Platform": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform of the resource.</p>"
                }
            },
            "PlatformVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
                }
            },
            "ResourceOwningAccountId":
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ResourceInventoryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ResourceInventory"
        }
```

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},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "ResourceLimitExceeded",

         "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>Your resource limits have been exceeded.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "InvalidResource.NotFound",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The resource cannot be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceType": {
    "type": "enum",
     "members": {
        "EC2_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_INSTANCE"
            }
        },
        "EC2_HOST": {
            "target": "smithy.api#Unit",
            "traits": {
```

"smithy.api#enumValue": "EC2_HOST"
}
},
"EC2_AMI": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "EC2_AMI"
}
},
"RDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "RDS"
}
},
"SYSTEMS_MANAGER_MANAGED_INSTANCE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
}
}
}
},
"com.amazonaws.licensemanager#S3Location": {
"type": "structure",
"members": {
"bucket": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the S3 bucket reports are published to. "
}
},
"keyPrefix": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Prefix of the S3 bucket reports are published to. "
}
}
},
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
"type": "structure",
"members": {
"Message": {

"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InternalError",
"httpResponseCode": 500
},
"smithy.api#documentation": " The server experienced an internal error. Try again. ",
"smithy.api#error": "server",
"smithy.api#httpError": 500
}
},
"com.amazonaws.licensemanager#SignedToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 4096
}
}
},
"com.amazonaws.licensemanager#StatusReasonMessage": {
"type": "string",
"traits":
{
"smithy.api#length": {
"min": 0,
"max": 400
},
"smithy.api#pattern": "^[\\s\\S]+$"
}
},
"com.amazonaws.licensemanager#String": {
"type": "string"
},
"com.amazonaws.licensemanager#StringList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#String"
}
},
"com.amazonaws.licensemanager#Tag": {
"type": "structure",
"members": {
"Key": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Tag key. "

```
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Tag value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#TagList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Tag"
        }
    },
    "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
            {
                "target":
"com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits":
 {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>One or more tags.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
```

"TokenType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Type of token generated. The supported value is <code>REFRESH_TOKEN</code>. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"ExpirationTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Token expiration time, in ISO8601-UTC format. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller. "
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the roles included in the token. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. "
}
}
},
"traits": {

"smithy.api#documentation": " Describes a token. "
}
},
"com.amazonaws.licensemanager#TokenList": {
"type": "list",

"member": {
"target": "com.amazonaws.licensemanager#TokenData"
}
},
"com.amazonaws.licensemanager#TokenString": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 4096
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#TokenType": {
"type": "enum",
"members": {
"REFRESH_TOKEN": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REFRESH_TOKEN"
}
}
}
},
"com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException":
{
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The digital signature method is unsupported. Try your request
again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#UntagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UntagResourceResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Removes the specified tags from the specified license configuration. "
}
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",
"traits": {
"smithy.api#documentation": " Keys identifying the tags to remove. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
"type": "structure",
"members": {},

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Modifies the attributes of an existing license configuration. "
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},

"LicenseConfigurationStatus": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
"traits": {
"smithy.api#documentation": " New status of the license configuration. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " New license rule. The only rule that you can add after you create a license\n configuration is licenseAffinityToHost. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " New number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",

"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
},
"traits":
{
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},

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            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates a report generator.</p>\n        <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to update.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportGeneratorName": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>",
                    "smithy.api#required": {}
                }
            },
            "Type": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports to generate. The following report types are supported:</p>\n        <ul>\n            <li>\n                <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p>\n            </li>\n            <li>\n                <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n            </li>\n        </ul>",
                    "smithy.api#required": {}
                }
            },
            "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
                    "smithy.api#documentation": "<p>The report context.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportFrequency": {
                "target": "com.amazonaws.licensemanager#ReportFrequency",
```

"traits":
{
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },

            {
                "target": "com.amazonaws.licensemanager#InvalidResourceStateException"
            },
            {
                "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p>\n        <p>You can update the license specifications of AMIs, instances, and
hosts.\n        You cannot update the license specifications for launch templates and CloudFormation templates, \n
  as they send license configurations to the operation that creates the resource.</p>"
        }
    },

    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "AddLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
                }
            },
            "RemoveLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation":
 "<p>ARNs of the license configurations to remove.</p>"
                }
```

```
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {},
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
    }
},
"com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
    "type": "structure",
    "members": {
        "S3BucketArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon S3 bucket where the License
Manager information is stored. "
}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Enables integration with Organizations for cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Activates cross-account discovery. "

}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UsageOperation": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
}
}
},
"com.amazonaws.licensemanager#ValidationException": {

```
            "type": "structure",
            "members": {
                "Message": {
                    "target": "com.amazonaws.licensemanager#Message"
                }
            },
            "traits": {
                "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",

        "smithy.api#error": "client",
                "smithy.api#httpError": 400
            }
        }
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {
```

```
 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version
 of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack,
 options); err != nil {
  return err
```

```
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if
 err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
```

```
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
```

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1.4334.1 Available under license :

```
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
```

```
 "fmt"
 "io"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get               []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
 return &LicenseCodesCallOptions{
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient
```

```
 interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient)
 Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
```

```
Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode,
 error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions
}

// NewLicenseCodesRESTClient
 creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
```

```
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{"x-goog-api-client", gax.XGoogHeader(kv...)}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return a specified license code. License codes are
 mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for
use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
```

```
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm
 := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
```

```
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners
 who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers
```

```
  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
```

```
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete             []gax.CallOption
 Get                []gax.CallOption
 GetIamPolicy       []gax.CallOption
 Insert             []gax.CallOption
 List               []gax.CallOption
 SetIamPolicy       []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
```

```
  },
  GetIamPolicy:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  SetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000
 * time.Millisecond),
  },
 }
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
```

```
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
```

```
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
```

```
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
```

```
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{"x-goog-api-client", gax.XGoogHeader(kv...)}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns
 nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
```

```
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds
 = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
```

```
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil
{
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx,
 hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
```

```
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for
 a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
```

```
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds
 = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }
```

```
 return
nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
m := protojson.MarshalOptions{AllowPartial: true}
body := req.GetLicenseResource()
jsonReq, err := m.Marshal(body)
if err != nil {
 return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.RequestId != nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v",
"project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
```

```
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return
err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts

```
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm
 := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
  }
  if req != nil && req.MaxResults != nil {
   params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
  }
  if req != nil && req.OrderBy != nil {
   params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
  }
  if req !=
 nil && req.PageToken != nil {
   params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
  }
  if req != nil && req.ReturnPartialSuccess != nil {
   params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
  }

  baseUrl.RawQuery = params.Encode()

  // Build HTTP headers from client and context metadata.
  hds := append(c.xGoogHeaders, "Content-Type", "application/json")
  headers := gax.BuildHeaders(ctx, hds...)
  e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
   if settings.Path != "" {
    baseUrl.Path = settings.Path
   }
```

```
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return
err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()
```

```
 return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption)
 (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e
 := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
```

```
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx
 context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}
```

```
 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
```

```
type LicenseIterator struct {
 items    []*computepb.License
 pageInfo
 *iterator.PageInfo
 nextFunc func() error

 // Response is the raw response for the current page.
 // It must be cast to the RPC response type.
 // Calling Next() or InternalFetch() updates this value.
 Response interface{}

 // InternalFetch is for use by the Google Cloud Libraries only.
 // It is not part of the stable interface of this package.
 //
 // InternalFetch returns results from a single call to the underlying RPC.
 // The number of results is no greater than pageSize.
 // If there are no more results, nextPageToken is empty and err is nil.
 InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
 return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done,
 all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
 var item *computepb.License
 if err := it.nextFunc(); err != nil {
  return item, err
 }
 item = it.items[0]
 it.items = it.items[1:]
 return item, nil
}

func (it *LicenseIterator) bufLen() int {
 return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
 b := it.items
 it.items = nil
 return b
}
```

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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
```

```
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.DeleteLicenseRequest{
 //
TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
}
op, err := c.Delete(ctx, req)
if err != nil {
 // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
 // TODO: Handle error.
}
}

func ExampleLicensesClient_Get() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
}
resp,
err := c.Get(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

```
func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
```

```
 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
 }
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range
 values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
```

```
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown
 in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
// Copyright 2023 Google LLC
//
// Licensed under the Apache License, Version 2.0 (the "License");
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//
```

```
//     https://www.apache.org/licenses/LICENSE-2.0
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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
```

```
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

1.4335 aws-sdk-go-v2-internal-ini 1.7.3

1.4335.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana
```

```
import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil,
 err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}
```

```
type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err !=
 nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
```

```
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack,
 options); err != nil {
  return err
 }
 return nil
}
```

```
func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
```

AWS SDK for Go

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```
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
     - name: Set up Python ${{ matrix.python-version }}
```

```
        uses: actions/setup-python@v2
       with:
         python-version: ${{ matrix.python-version }}
     # ScanCode
     - name: Self-configure scancode
       working-directory: ./scancode-toolkit
       run: ./scancode --help
     - name: Run Scan code on target
       run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
     - name: Run Scan code on pr ref
       run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
     # compare
     - name: License test
       run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
```

```
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return
err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
```

```
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckInLicense",
 }
}
{
  "smithy": "2.0",
  "shapes": {
      "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
          "type": "integer"
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
          "type": "long"
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
          "type": "structure",
          "members": {
              "Name": {
                  "target": "smithy.api#String",
                  "traits": {
                      "smithy.api#documentation": "<p>The type of name to filter by.</p>"
                  }
              },
              "Values": {
                  "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                  "traits": {
                      "smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
                  }
              },
              "Operator": {
                  "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
                   "traits": {
                      "smithy.api#documentation": "<p>An operator for filtering results.</p>"
                  }
              }
          },
          "traits": {
              "smithy.api#documentation": "<p>A filter object that is used to return more specific results from a describe
```

operation.\n Filters can be used to match a set of resources by specific criteria. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
},
"output": {

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions service settings. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/GetServiceSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest":
{
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " Lists the settings defined for Linux subscriptions discovery. The settings include if\n Organizations integration has been enabled, and
which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays
the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
"type": "structure",
"members": {
"AmiId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The AMI ID used to launch the instance. "
}
},
"InstanceID": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " The instance ID of the resource. "
}
},
"InstanceType": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The instance type of the resource. "
}

},
"AccountID": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The account ID which owns the instance. "
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of the instance. "
}
},
"Region": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The Region the instance is running in. "
}
},
"UsageOperation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The usage operation of the instance. For more information, see For more information, see\n Usage\n operation values in the License Manager User Guide. "
}
},
"ProductCode": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
"traits": {
"smithy.api#documentation": " The product code for the instance. For more information, see Usage\n operation values in the License Manager User Guide . "
}
},
"LastUpdatedTime": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " The time in which the last discovery updated the instance details. "
}
},
"SubscriptionName": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription being used by the instance. "
}
}
},
"traits": {
"smithy.api#documentation": " Details discovered information about a running instance using Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " An exception occurred with the service. ",
"smithy.api#error": "server"
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"com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
"type": "service",
"version": "2018-05-10",
"operations": [
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"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
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"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
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{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
},
{

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
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"traits": {
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"sdkId": "License Manager Linux Subscriptions",
"arnNamespace": "license-manager-linux-subscriptions",
"cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
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"aws.auth#sigv4": {
"name": "license-manager-linux-subscriptions"
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"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",

"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"
]
},
"smithy.api#documentation": " With License Manager, you can discover and track your commercial Linux subscriptions on running\n Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager Linux Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The

AWS region used to dispatch the request.",
"type": "String"
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"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
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"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

"type": "Boolean"
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"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}
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"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
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}
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{

"conditions": [
{
"fn": "booleanEquals",
"argv": [
{

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                "ref": "UseFIPS"
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  "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
  "type": "error"
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                    },
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                ]
            }
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        "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
        "type": "error"
    },
    {
        "conditions": [],

 "endpoint": {
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                "ref": "Endpoint"
            },
            "properties": {},
            "headers": {}
        },
        "type": "endpoint"
    }
  ]
}
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                            "argv": [
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                                  },
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                              },

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                        "argv": [
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                                "ref": "PartitionResult"
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                        ]

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                ]
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                "supportsDualStack"
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"properties": {},
"headers": {}
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"type": "endpoint"
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}
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"conditions": [],
"error": "FIPS and DualStack are enabled, but this partition does not support one or both",
"type": "error"
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"argv": [
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"fn": "getAttr",

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                        "type": "error"
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                    "argv": [
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                            "fn": "getAttr",
                            "argv": [
                                {
                                    "ref": "PartitionResult"
                                },
                                "supportsDualStack"
                            ]
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                                "properties": {},
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"type": "error"
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"type": "tree",
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"properties": {},
"headers": {}
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"error": "Invalid Configuration: Missing Region",
"type": "error"
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"smithy.rules#endpointTests": {
"testCases": [
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"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
}
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"params": {
"Region": "us-east-1",
"UseFIPS": true,

"UseDualStack": true
}
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"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {

"endpoint": {
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"params": {
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"UseFIPS": true,
"UseDualStack": false
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"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
}
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"params": {
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"UseFIPS": false,
"UseDualStack": true
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"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
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"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {

"url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
}
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"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
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"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
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"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
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"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
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"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
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"url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}

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          "expect": {
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            }
          },
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            }
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            "UseDualStack": true
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            }
          },
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"params": {
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"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
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{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect": {
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"url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
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"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
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"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
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"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": true
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"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
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"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
}

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                "UseDualStack": false
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            "expect": {
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                "UseDualStack": true
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            "expect": {
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
                }
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            "params": {
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                "UseDualStack": false
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            "documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
            "expect": {
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            "expect": {
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"url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}
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"params": {
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"UseFIPS": false,
"UseDualStack": false
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"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {
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"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
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"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",

"expect": {
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"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
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"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
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"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,

"Endpoint": "https://example.com"
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"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
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"params": {
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"UseFIPS": false,
"UseDualStack": true,
"Endpoint": "https://example.com"
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{
"documentation": "Missing region",
"expect": {
"error": "Invalid Configuration: Missing Region"
}

}
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"version": "1.0"
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "Enabled",
"value": "Enabled",
"documentation": "Enabled LinuxSubscriptionsDiscovery"
},
{
"name": "Disabled",
"value": "Disabled",
"documentation": "Disabled LinuxSubscriptionsDiscovery"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
"type": "structure",
"members": {

"SourceRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Regions in which to discover data for Linux subscriptions. ",
"smithy.api#required": {}
}
},
"OrganizationIntegration": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
"traits": {
"smithy.api#documentation": " Details if you have enabled resource discovery across your accounts in Organizations. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Lists the settings defined for discovering Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
"type":
"operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the running Amazon EC2 instances that were discovered with commercial Linux\n subscriptions. ",
"smithy.api#http": {

"code": 200,
"method": "POST",

"uri": "/subscription/ListLinuxSubscriptionInstances"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Instances"
}
}
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"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n match, or don't match a certain Amazon Machine Image (AMI) ID. \n The valid names for this filter are: \n \n \n \n <code>AmiID</code>\n \n \n \n \n <code>InstanceID</code>\n \n \n \n \n <code>AccountID</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Region</code>\n \n \n \n \n <code>UsageOperation</code>\n \n \n \n \n <code>ProductCode</code>\n \n \n \n \n <code>InstanceType</code>\n \n \n \n The valid Operators for this filter are: \n \n \n \n <code>contains</code>\n \n \n \n \n <code>equals</code>\n \n \n \n \n <code>Notequal</code>\n \n \n "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "

}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. ",
"smithy.api#length": {
"min": 1,
"max": 16384

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            }
        }
    },
    "traits": {
        "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
    "type": "structure",
    "members": {
        "Instances": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
            "traits": {
                "smithy.api#documentation":
 "<p>An array that contains instance objects.</p>"
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
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"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
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    "output": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
    },
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            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
         },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the Linux subscriptions that have been discovered. If you have
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linked your\n organization, the returned results will include data aggregated across your accounts in\n Organizations. ",
"smithy.api#http": {
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"uri": "/subscription/ListLinuxSubscriptions"
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"smithy.api#paginated": {
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"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Subscriptions"
}

}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
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"members": {
"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>Subscription</code> with an optional operator to see subscriptions that match,\n partially match, or don't match a certain subscription's name. \n The valid names for this filter are: \n \n \n \n <code>Subscription</code>\n \n \n \n The valid Operators for this filter are: \n \n \n \n <code>contains</code>\n \n \n \n \n <code>equals</code>\n \n \n \n \n <code>Notequal</code>\n \n \n "
}
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"MaxResults": {
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"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
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"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. ",
"smithy.api#length": {

"min": 1,
"max": 16384

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    },
    "traits": {
        "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
    "type": "structure",
    "members": {
        "Subscriptions": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
            "traits": {
                "smithy.api#documentation": "<p>An array that contains subscription objects.</p>"
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for
 the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "name": "EQUAL",
                "value": "Equal",
                "documentation": "Equal operator"
            },
            {
                "name": "NOT_EQUAL",
                "value": "NotEqual",
                "documentation": "Not equal operator"
            },
            {
                "name": "CONTAINS",
                "value": "Contains",
                "documentation": "Contains operator"
            }
        ],
        "smithy.api#length": {
```

```
            "min": 1,
            "max": 20
          }
        }
    },

"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
        "type": "string",
        "traits": {
          "smithy.api#enum": [
            {
              "name": "Enabled",
              "value": "Enabled",
              "documentation": "Enabled OrganizationIntegration"
            },
            {
              "name": "Disabled",
              "value": "Disabled",
              "documentation": "Disabled OrganizationIntegration"
            }
          ]
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
        "type": "list",
        "member": {
          "target": "smithy.api#String"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
        "type": "string",
        "traits": {
          "smithy.api#enum": [

   {
              "name": "InProgress",
              "value": "InProgress",
              "documentation": "InProgress status"
            },
            {
              "name": "Completed",
              "value": "Completed",
              "documentation": "Completed status"
            },
            {
              "name": "Successful",
              "value": "Successful",
              "documentation": "Successful status"
```

```
            },
            {
                "name": "Failed",
                "value": "Failed",
                "documentation": "Failed status"
            }
        ]
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
    "type": "list",
    "member": {
        "target": "smithy.api#String",
        "traits":
{
            "smithy.api#length": {
                "min": 1,
                "max": 100
            }
        }
    },
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 100
        },
        "smithy.api#uniqueItems": {}
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
    "type": "map",
    "key": {
        "target": "smithy.api#String"
    },
    "value": {
        "target": "smithy.api#String"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The name of the subscription.</p>"

    }
        },
```

"Type": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own\n Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the\n Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS. "
}
},
"InstanceCount": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
"traits": {
"smithy.api#documentation": " The total amount of running instances using this subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " An object which details a discovered Linux subscription. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request was denied due to request throttling. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
},

"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates the service settings for Linux subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/UpdateServiceSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Describes if the discovery of Linux subscriptions is enabled. ",
"smithy.api#required": {}
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. ",

"smithy.api#required": {}
}
},
"AllowUpdate": {
"target": "smithy.api#Boolean",
"traits": {
"smithy.api#documentation": " Describes if updates are allowed to the service settings for Linux subscriptions. If you\n allow updates, you can aggregate Linux subscription data in more than one home Region. "

```
            }
          }
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
        "type": "structure",
        "members": {
          "LinuxSubscriptionsDiscovery": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
            "traits": {
              "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
            }
          },

         "LinuxSubscriptionsDiscoverySettings": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
            "traits": {
              "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The
settings include if Organizations\n      integration has been enabled, and which Regions data will be aggregated
from.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
            "traits": {
              "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
            }
          },
          "StatusMessage": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
            "traits": {
              "smithy.api#documentation":
 "<p>A message which details the Linux subscriptions service settings current status.</p>"
            }
          },
          "HomeRegions": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
            "traits": {
              "smithy.api#documentation": "<p>The Region in which License Manager displays the aggregated
data for Linux\n      subscriptions.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
        "type": "structure",
        "members": {
```

```
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
            "smithy.api#error": "client"
        }
    }
  }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - Beneficiary
 //   - ProductSKU
```

```
//   - Fingerprint
//
  - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if
 err := addProtocolFinalizerMiddlewares(stack, options, "ListLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }
```

```
if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
     ServiceID,
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 //
 This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
```

```
if err := addProtocolFinalizerMiddlewares(stack,
options, "DisassociateLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
```

```
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
```

```
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string
```

```
 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource
 Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
```

```
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil
{
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack);
err != nil {
 return err
```

```
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier
 that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata
```

```
 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
```

```
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
if err != nil {
 return
err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return
err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide
 to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string
```

```
 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity
 *types.DatetimeRange

 // Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
```

```
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
  return fmt.Errorf("add
 protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
```

```
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName:
 "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
```

```
import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
```

```
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return
 err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
```

```
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack);
 err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "GetLicense",
 }
}
```

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```
package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
```

```
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
   - ProductSKU
 //   - Status
 //   - Fingerprint
 //   - IssuerName
 //   - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
```

```
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
 middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
 }
}
```

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```
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
        "smithy.api#error": "client"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
      "type": "structure",
      "members": {
        "DirectoryId": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation":
"<p>Details about an Active Directory identity provider.</p>"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
      },
      "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Associates the user to an EC2 instance to utilize user-based
subscriptions.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related
costs will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing
status) in Amazon Web Services Billing. For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n
        monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/AssociateUser"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
```

"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the
EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " The identity provider of the user. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
"type": "integer"
},
"com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request couldn't be completed because it conflicted with the current
state of the\n resource. ",
"smithy.api#error": "server"

```
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deregisters the identity provider from providing user-based
subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/DeregisterIdentityProvider"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
        "type": "structure",
        "members": {
```

"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation":
" Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{

"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Disassociates the user from an EC2 instance providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/DisassociateUser"
},
"smithy.api#idempotent": {}
}

},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}

```
            }
        },
        "Domain": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
    "type": "structure",
    "members": {
        "InstanceUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
            "traits": {
                "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
                "smithy.api#required": {}
            }
        }
    }
},

"com.amazonaws.licensemanagerusersubscriptions#Filter": {
    "type": "structure",
    "members": {
        "Attribute": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The name of an attribute to use as a filter.</p>"
            }
        },
        "Operation": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The type of search (For example, eq, geq, leq)</p>"
            }
        },
        "Value": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Value of the filter.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>A filter name and value pair that is used
```

to return more specific results from a describe\n operation. Filters can be used to match a set of resources by specific criteria, such as tags,\n attributes, or IDs. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
"type": "union",
"members": {
"ActiveDirectoryIdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
"traits": {
"smithy.api#documentation": " An object that details an Active Directory identity provider. "
}
}
},
"traits": {
"smithy.api#documentation":
" Details about an identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " An object that details the registered identity providers product related configuration\n settings such as the subnets to provision VPC endpoints. ",
"smithy.api#required":
{}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",

"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of an identity provider. ",
"smithy.api#required": {}
}
},
"FailureMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The failure message associated with an identity provider. "
}
}
},
"traits": {
"smithy.api#documentation":
" Describes an identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
"type": "structure",
"members": {
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based
subscriptions. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status
of an EC2 instance resource. ",
"smithy.api#required": {}
}
},
"Products": {

"target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
"traits": {
"smithy.api#documentation": " A list of provided user-based subscription products. ",
"smithy.api#required": {}
}
},
"LastStatusCheckDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date of the last status check. "
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for an EC2 instance. "
}

}
},
"traits": {
"smithy.api#documentation": " Describes an EC2 instance providing user-based subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits":
{
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}

```
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status of a user associated with an EC2 instance.</p>",
                    "smithy.api#required": {}
                }
            },
            "StatusMessage": {
                "target": "smithy.api#String",
                 "traits": {
                    "smithy.api#documentation": "<p>The status message for users of an EC2 instance.</p>"
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            },
            "AssociationDate": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The date a user was associated with an EC2 instance.</p>"
                }
            },
            "DisassociationDate": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The date a user was disassociated from an EC2 instance.</p>"
                }
            }

    },
        "traits": {
            "smithy.api#documentation": "<p>Describes users of an EC2 instance providing user-based
subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
        "type": "list",
```

"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " An exception occurred with the service. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
"type": "service",

"version": "2018-05-10",
"operations": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"

```
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
            }
        ],
        "traits": {
            "aws.api#service": {
                "sdkId": "License Manager User Subscriptions",
                "arnNamespace": "license-manager-user-subscriptions",
                "cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
            },
            "aws.auth#sigv4": {
                "name": "license-manager-user-subscriptions"
             },
            "aws.protocols#restJson1": {},
            "smithy.api#cors": {
                "additionalAllowedHeaders": [
                    "*",
                    "content-type",
                    "x-amz-content-sha256",
                    "x-amz-user-agent",
                    "x-amzn-platform-id",
                    "x-amzn-trace-id",
                    "content-length",
                    "x-api-key",
                    "authorization",
                    "x-amz-date",
                    "x-amz-security-token",
                    "Access-Control-Allow-Headers",
                    "Access-Control-Allow-Methods",
                    "Access-Control-Allow-Origin"
                ],
                "additionalExposedHeaders": [
                    "x-amzn-errortype",
                    "x-amzn-requestid",
                    "x-amzn-trace-id"

 ]
            },
            "smithy.api#documentation": "<p>With License Manager, you can create user-based subscriptions to
utilize licensed software with\n      a per user subscription fee on Amazon EC2 instances.</p>",
            "smithy.api#title": "AWS License Manager User Subscriptions",
            "smithy.rules#endpointRuleSet": {
                "version": "1.0",
                "parameters": {
```

"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack
endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}

},
"rules": [
{
"conditions": [
{
"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
]
}
],
"type": "tree",
"rules": [
{
"conditions": [
{
"fn": "booleanEquals",

```
                "argv": [
                  {
                    "ref": "UseFIPS"
                  },

                true
                ]
              }
            ],
            "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
            "type": "error"
          },
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseDualStack"
                  },
                  true
                ]
              }
            ],

"error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
            "type": "error"
          },
          {
            "conditions": [],
            "endpoint": {
              "url": {
                "ref": "Endpoint"
              },
              "properties": {},
              "headers": {}
            },
            "type": "endpoint"
          }
        ]
      },
      {
        "conditions": [
          {
            "fn": "isSet",
            "argv": [
```

```
{
                "ref": "Region"
            }
        ]
    }
],
"type": "tree",
"rules": [
    {
        "conditions": [
            {
                "fn": "aws.partition",
                "argv": [
                    {
                        "ref": "Region"
                    }
                ],
                "assign": "PartitionResult"
            }
        ],
        "type": "tree",

"rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseFIPS"
                            },
                            true
                        ]
                    },
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseDualStack"

                            },
                            true
                        ]
                    }
                ],
                "type": "tree",
                "rules": [
                    {
```

"conditions": [
{
"fn": "booleanEquals",
"argv": [
true,
{
"fn": "getAttr",

"argv": [
{
"ref": "PartitionResult"
},
"supportsFIPS"
]
}
]
},
{
"fn": "booleanEquals",
"argv": [
true,
{

"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsDualStack"
]
}
]
}
],
"type": "tree",
"rules": [
{

"conditions": [],
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]

```
                    },
                    {
                        "conditions": [],
                        "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
                         "type": "error"
                    }
                ]
            },
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseFIPS"
                            },
                            true
                        ]
                    }
                ],
                "type": "tree",

        "rules": [
                    {
                        "conditions": [
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    true,
                                    {
                                        "fn": "getAttr",
                                        "argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },
                                            "supportsFIPS"

                                    ]
                                    }
                                ]
                            }
                        ],
                        "type": "tree",
                        "rules": [
                            {
                                "conditions": [],
                                "endpoint": {
```

"url": "https://license-manager-user-subscriptions-fips.{Region}.{PartitionResult#dnsSuffix}",
"properties": {},
"headers": {}

},
"type": "endpoint"
}
]
},
{
"conditions": [],
"error": "FIPS is enabled but this partition does not support FIPS",
"type": "error"
}
]
},
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseDualStack"
},
true
]
}
],
"type": "tree",
"rules": [
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
true,
{

"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsDualStack"
]
}
]

```
                    }
                ],
                "type": "tree",
                "rules": [
                    {

                        "conditions": [],
                        "endpoint": {
                            "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                            "properties": {},
                            "headers": {}
                        },
                        "type": "endpoint"
                    }
                ]
            },
            {
                "conditions": [],
                "error": "DualStack is enabled but this partition does
 not support DualStack",
                "type": "error"
            }
        ]
    },
    {
        "conditions": [],
        "endpoint": {
            "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
            "properties": {},
            "headers": {}
        },
        "type": "endpoint"
    }
]
}
]
},
{
    "conditions":
[],
    "error": "Invalid Configuration: Missing Region",
    "type": "error"
}
]
},
"smithy.rules#endpointTests": {
```

"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation":
"For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
}
},

"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
}

```
                },
                "params": {
                    "Region": "us-east-1",
                    "UseFIPS": false,
                    "UseDualStack": false
                }
            },
            {
                "documentation": "For region cn-north-1 with
 FIPS enabled and DualStack enabled",
                "expect": {
                    "endpoint": {
                        "url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
                    }
                },
                "params": {
                    "Region": "cn-north-1",
                    "UseFIPS": true,
                    "UseDualStack": true
                }
            },
            {
                "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
                "expect": {
                    "endpoint": {
                        "url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
                    }
                },

        "params": {
                    "Region": "cn-north-1",
                    "UseFIPS": true,
                    "UseDualStack": false
                }
            },
            {
                "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
                "expect": {
                    "endpoint": {
                        "url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
                    }
                },
                "params": {
                    "Region": "cn-north-1",
                    "UseFIPS": false,
                    "UseDualStack": true
                }
```

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            },
            {
              "documentation": "For region cn-north-1
with FIPS disabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
                }
              },
              "params": {
                "Region": "cn-north-1",
                "UseFIPS": false,
                "UseDualStack": false
              }
            },
            {
              "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
                }
              },

        "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": true,
                "UseDualStack": true
              }
            },
            {
              "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"
                }
              },
              "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": true,
                "UseDualStack": false
              }
            },
            {
              "documentation": "For region us-gov-east-1
with FIPS disabled and DualStack enabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
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```
                }
            },
            "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
                }
            },

    "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": true,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
            "expect":
{
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
                }
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": true,
                "UseDualStack": false
            }
        },
        {
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"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack":
true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but
this partition does not support one or both"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}

},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},

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                "params": {
                    "UseFIPS": false,
                    "UseDualStack": false,
                    "Endpoint": "https://example.com"
                }
            },
            {
                "documentation": "For custom endpoint with fips enabled and dualstack disabled",
                "expect": {
                    "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
                },
                "params": {
                    "Region": "us-east-1",
                     "UseFIPS": true,
                    "UseDualStack": false,
                    "Endpoint": "https://example.com"
                }
            },
            {
                "documentation": "For custom endpoint with fips disabled and dualstack enabled",
                "expect": {
                    "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
                },
                "params": {
                    "Region": "us-east-1",
                    "UseFIPS": false,
                    "UseDualStack": true,
                    "Endpoint": "https://example.com"
                }
            },
            {
                "documentation": "Missing region",
                "expect": {
                     "error": "Invalid Configuration: Missing Region"
                }
            }
        ],
        "version": "1.0"
    }
  }
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
```

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        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the identity providers for user-based subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/ListIdentityProviders"
            },
            "smithy.api#paginated":
{
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "IdentityProviderSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
```

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            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
{
        "type": "structure",
        "members": {
            "IdentityProviderSummaries": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
                    "smithy.api#required": {}
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
         },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
```

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            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/instance/ListInstances"
            },
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify.</p>"
                }
            }
```

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        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
        "type":
"structure",
        "members": {
            "InstanceSummaries": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the list instances operation.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
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"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the user-based subscription products available from an identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/ListProductSubscriptions"
},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "ProductUserSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
"type": "structure",
"members": {
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {

"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
"type": "structure",
"members": {
"ProductUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list product subscriptions operation. "
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target":

"com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": " Lists user associations for an identity provider. ",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListUserAssociations"
            },
            "smithy.api#paginated":
{
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": " The ID of the EC2 instance, which provides user-based
subscriptions. ",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": " An object that specifies details for the identity
provider. ",
                    "smithy.api#required": {}

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                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for
 the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
        "type": "structure",
        "members": {
            "InstanceUserSummaries": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the list user association operation.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
        "type": "structure",
        "members": {

        "Username": {
                "target": "smithy.api#String",
                "traits": {
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"smithy.api#documentation": " The user name from the identity provider of the user. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}

},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a product for a user. ",
"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for a product for a user. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"SubscriptionStartDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The
start date of a subscription. "
}
},
"SubscriptionEndDate": {
"target": "smithy.api#String",
"traits": {

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            "smithy.api#documentation": "<p>The end date of a subscription.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>The summary of the user-based subscription products for a user.</p>"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Registers an identity provider for user-based subscriptions.</p>",
        "smithy.api#http": {
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"code": 200,
"method": "POST",
"uri": "/identity-provider/RegisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings such as the\n subnets to provision VPC endpoints. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
}
},

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    "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The resource couldn't be found.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 404
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
        "type": "string",

  "traits": {
            "smithy.api#length": {
                "min": 5,
                "max": 200
            },
            "smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request failed because a service quota is exceeded.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Settings": {
        "type": "structure",
        "members": {
            "Subnets": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
                "traits": {
                    "smithy.api#documentation":
"<p>The subnets defined for the registered identity provider.</p>",
                    "smithy.api#length": {
                        "min": 1
                    },
                    "smithy.api#required": {}
```

```
                }
            },
            "SecurityGroupId": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
                "traits": {
                    "smithy.api#documentation": "<p>A security group ID that allows inbound TCP port 1688
communication between resources in\n      your VPC and the VPC endpoint for activation servers.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The registered identity providers product related configuration settings
such as the\n      subnets to provision VPC endpoints, and the security group ID that
 is associated with the VPC\n      endpoints. The security group should permit inbound TCP port 1688
communication from resources\n      in the VPC.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
```

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Starts a product subscription for a user with the specified identity provider.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related costs will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing.
 For more information, see <a href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n        monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/StartProductSubscription"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                 "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
        }
    },
```

"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
"type": "structure",
"members": {
"ProductUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the start product subscription operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Stops a product subscription for a user with the specified identity provider. ",

```
            "smithy.api#http": {
              "code": 200,
              "method": "POST",
              "uri": "/user/StopProductSubscription"
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
          "type": "structure",
          "members": {
            "Username": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                "smithy.api#required": {}
              }
            },
            "IdentityProvider": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
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                "smithy.api#required":
{}
              }
            },
            "Product": {
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                "smithy.api#required": {}
              }
            },
            "Domain": {
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              "traits": {
                "smithy.api#documentation": "<p>The domain name of the user.</p>"
              }
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
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          "members": {
            "ProductUserSummary": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
              "traits": {
                "smithy.api#documentation":
```

" Metadata that describes the start product subscription operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StringList": {
"type": "list",
"member": {
"target": "smithy.api#String"
}
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"com.amazonaws.licensemanagerusersubscriptions#Subnet": {
"type": "string",
"traits": {
"smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Subnets": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
"type": "structure",
"members": {
"message": {

"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request was denied because of request throttling. Retry the request. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates additional product configuration settings for the registered identity\n provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/UpdateIdentityProviderSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"UpdateSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings. You can\n update any combination of settings in a single operation such as the: \n \n \n Subnets which you want to add to provision VPC endpoints. \n \n \n Subnets which you want to remove the VPC endpoints from. \n \n \n Security group ID which permits traffic to the VPC endpoints. \n \n ",
"smithy.api#required": {}

```
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
        "type": "structure",
        "members": {
            "IdentityProviderSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
                "traits": {
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
        "type": "structure",
        "members": {
            "AddSubnets": {

             "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of one or more subnets in which License Manager will
create a VPC endpoint for products that\n      require connectivity to activation servers.</p>",
                    "smithy.api#required": {}
                }
            },
            "RemoveSubnets": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of one or more subnets to remove.</p>",
                    "smithy.api#required": {}
                }
            },
            "SecurityGroupId": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
                "traits": {
                    "smithy.api#documentation": "<p>A security group ID
 that allows inbound TCP port 1688 communication between resources in\n      your VPC and the VPC endpoints for
activation servers.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Updates the registered identity providers product related configuration
settings such as\n      the subnets to provision VPC endpoints.</p>"
        }
    },
```

```
    "com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>A parameter is not valid.</p>",
        "smithy.api#error": "client"
      }
    }
  }
}
{
  "smithy": "2.0",
  "metadata": {
    "suppressions": [
      {
        "id": "HttpMethodSemantics",
        "namespace": "*"
      },
      {
        "id": "HttpResponseCodeSemantics",
        "namespace": "*"
      },
      {
        "id": "PaginatedTrait",
        "namespace": "*"
      },
      {
        "id": "HttpHeaderTrait",
        "namespace": "*"
      },
      {
        "id": "HttpUriConflict",
        "namespace": "*"
      },
      {
        "id": "Service",
        "namespace": "*"
      }
    ]
  },
  "shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
      "type": "service",
      "version": "2018-08-01",
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"operations": [
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"target": "com.amazonaws.licensemanager#AcceptGrant"
},

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"target": "com.amazonaws.licensemanager#CheckInLicense"
},
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"target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
},
{
"target": "com.amazonaws.licensemanager#CheckoutLicense"
},
{
"target": "com.amazonaws.licensemanager#CreateGrant"
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"target": "com.amazonaws.licensemanager#CreateGrantVersion"
},
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"target": "com.amazonaws.licensemanager#CreateLicense"
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"target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
},
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"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
},
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"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseVersion"
},
{
"target": "com.amazonaws.licensemanager#CreateToken"
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"target": "com.amazonaws.licensemanager#DeleteGrant"
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"target": "com.amazonaws.licensemanager#DeleteLicense"
},
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"target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
},
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"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
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"target": "com.amazonaws.licensemanager#DeleteToken"
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"target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

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"target": "com.amazonaws.licensemanager#GetAccessToken"
},
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"target": "com.amazonaws.licensemanager#GetGrant"
},
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"target": "com.amazonaws.licensemanager#GetLicense"
},
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"target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
},
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"target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
},
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"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseUsage"
},
{
"target": "com.amazonaws.licensemanager#GetServiceSettings"
},
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"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
},
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"target": "com.amazonaws.licensemanager#ListDistributedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},

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"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
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"target": "com.amazonaws.licensemanager#ListLicenses"
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"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

"target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
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"target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
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"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization"
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"target": "com.amazonaws.licensemanager#ListResourceInventory"
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"target": "com.amazonaws.licensemanager#ListTagsForResource"
},
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"target": "com.amazonaws.licensemanager#ListTokens"
},
{
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#RejectGrant"
},
{
"target": "com.amazonaws.licensemanager#TagResource"
},
{
"target": "com.amazonaws.licensemanager#UntagResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"

```
            },
            {
                "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
            },
            {
                "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
            },
            {
                "target": "com.amazonaws.licensemanager#UpdateServiceSettings"
            }
        ],
        "traits": {
            "aws.api#service": {
                 "sdkId": "License Manager",
                "arnNamespace": "license-manager",
                "cloudFormationName": "LicenseManager",
                "cloudTrailEventSource": "licensemanager.amazonaws.com",
                "endpointPrefix": "license-manager"
            },
            "aws.auth#sigv4": {
                "name": "license-manager"
            },
            "aws.protocols#awsJson1_1": {},
            "smithy.api#documentation": "<p>License Manager makes it easier to manage licenses from software vendors across multiple \n        Amazon Web Services accounts and on-premises servers.</p>",
            "smithy.api#title": "AWS License Manager",
            "smithy.api#xmlNamespace": {
                "uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
            },
            "smithy.rules#endpointRuleSet": {
                "version": "1.0",
                "parameters": {
                    "Region": {
                        "builtIn": "AWS::Region",
                        "required": false,
                        "documentation": "The AWS region used to dispatch the request.",
                        "type": "String"
                    },
                    "UseDualStack": {
                        "builtIn": "AWS::UseDualStack",
                        "required": true,
                        "default": false,
                        "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
                        "type": "Boolean"
                    },
                    "UseFIPS": {
                        "builtIn": "AWS::UseFIPS",
```

"required": true,
"default": false,
"documentation": "When true, send
this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}
},
"rules": [
{
"conditions": [
{
"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
]

}
],
"type": "tree",
"rules": [
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
},
true
]
}
],
"error": "Invalid Configuration: FIPS and custom endpoint are not supported",
"type": "error"
},
{

"conditions": [
{

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                "fn": "booleanEquals",
                "argv": [
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                    "ref": "UseDualStack"
                  },
                  true
                ]
              }
            ],
            "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
            "type": "error"
          },
          {
            "conditions": [],
            "endpoint": {
              "url": {
                "ref": "Endpoint"
              },
              "properties": {},
              "headers": {}
            },
            "type": "endpoint"
          }
        ]
      },
      {
        "conditions": [
          {
            "fn": "isSet",
            "argv": [
              {
                "ref": "Region"
              }
            ]
          }
        ],
        "type": "tree",
        "rules": [
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            "conditions": [
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                "fn": "aws.partition",
                "argv": [
                  {
                    "ref": "Region"
                  }
                ],
                "assign": "PartitionResult"
```

```
                }
            ],
            "type": "tree",
            "rules": [
                {
                    "conditions": [
                        {
                            "fn": "booleanEquals",
                            "argv": [
                                {
                                    "ref":
"UseFIPS"
                                },
                                true
                            ]
                        },
                        {
                            "fn": "booleanEquals",
                            "argv": [
                                {
                                    "ref": "UseDualStack"
                                },
                                true
                            ]
                        }
                    ],
                    "type": "tree",
                    "rules": [
                        {
                            "conditions": [
                                {
                                    "fn": "booleanEquals",
                                    "argv": [
                                        true,
                                        {
                                            "fn": "getAttr",
                                            "argv": [
                                                {
                                                    "ref": "PartitionResult"
                                                },
                                                "supportsFIPS"
                                            ]

                                }
                                    ]
                                },
                                {
                                    "fn": "booleanEquals",
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"argv": [
true,
{
"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},

"supportsDualStack"

]
}
]
}
],
"type": "tree",
"rules": [
{
"conditions": [],
"endpoint": {
"url": "https://license-manager-fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}

},
"type": "endpoint"
}
]
},
{
"conditions": [],
"error": "FIPS and DualStack are enabled, but this partition does not support one or both",
"type": "error"
}
]
},
{
"conditions": [
{
"fn": "booleanEquals",

"argv": [
{
"ref": "UseFIPS"
},
true

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                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,

{
                            "fn": "getAttr",
                            "argv": [
                                {
                                    "ref": "PartitionResult"
                                },
                                "supportsFIPS"
                            ]
                        }
                    ]
                }
                ],
                "type": "tree",
                "rules": [

{
                        "conditions": [],
                        "endpoint": {
                            "url": "https://license-manager-fips.{Region}.{PartitionResult#dnsSuffix}",
                            "properties": {},
                            "headers": {}
                        },
                        "type": "endpoint"
                    }
                ]
            },
            {
                "conditions": [],
                "error": "FIPS is enabled but this
partition does not support FIPS",
                "type": "error"
            }
        ]
    },
    {
        "conditions": [
```

```
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseDualStack"
                            },
                            true
                        ]
                    }
                ],
                "type": "tree",
                 "rules": [
                    {
                        "conditions": [
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    true,
                                    {
                                        "fn": "getAttr",
                                        "argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },

"supportsDualStack"
                                        ]
                                    }
                                ]
                            }
                        ],
                        "type": "tree",
                        "rules": [
                            {
                                "conditions": [],
                                "endpoint": {
                                    "url": "https://license-
manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                    "properties": {},
                                    "headers": {}

                },
                                "type": "endpoint"
                            }
                        ]
                    },
                    {
                        "conditions": [],
```

```
                "error": "DualStack is enabled but this partition does not support DualStack",
                "type": "error"
            }
        ]
    },
    {
        "conditions": [],
        "endpoint": {
            "url": "https://license-manager.{Region}.{PartitionResult#dnsSuffix}",
            "properties": {},
            "headers": {}
        },
        "type": "endpoint"
    }
  ]
}
]
},
{
    "conditions": [],
    "error": "Invalid Configuration: Missing Region",
    "type": "error"
}
]
},
"smithy.rules#endpointTests": {
    "testCases": [
        {
            "documentation": "For region af-south-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint":
{
                    "url": "https://license-manager.af-south-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "af-south-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.ap-east-1.amazonaws.com"
                }
            },
```

"params": {
"Region": "ap-east-1",
"UseFIPS": false,
"UseDualStack": false
}
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"documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-northeast-1.amazonaws.com"
}
},
"params": {
"Region": "ap-northeast-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-northeast-2.amazonaws.com"
}
},
"params": {
"Region": "ap-northeast-2",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-northeast-3.amazonaws.com"
}
},
"params": {
"Region": "ap-northeast-3",
"UseFIPS": false,
"UseDualStack": false
}

},
{
"documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",

"expect": {
"endpoint": {
"url": "https://license-manager.ap-south-1.amazonaws.com"
}
},
"params": {
"Region": "ap-south-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-southeast-1.amazonaws.com"

}
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"params": {
"Region": "ap-southeast-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-southeast-2.amazonaws.com"
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"params": {
"Region": "ap-southeast-2",
"UseFIPS": false,
"UseDualStack": false
}
},
{

"documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-southeast-3.amazonaws.com"
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"params": {
"Region": "ap-southeast-3",

"UseFIPS": false,
"UseDualStack": false
}
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{
"documentation": "For region ca-central-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ca-central-1.amazonaws.com"
}
},

"params": {
"Region": "ca-central-1",
"UseFIPS": false,
"UseDualStack": false
}
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{
"documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-central-1.amazonaws.com"
}
},
"params": {
"Region": "eu-central-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region eu-north-1 with FIPS
disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-north-1.amazonaws.com"
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},
"params": {
"Region": "eu-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
"expect": {

"endpoint": {
"url": "https://license-manager.eu-south-1.amazonaws.com"
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},
"params": {
"Region":
"eu-south-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-west-1.amazonaws.com"
}
},
"params": {
"Region": "eu-west-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
"expect": {

"endpoint": {
"url": "https://license-manager.eu-west-2.amazonaws.com"
}
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"params": {
"Region": "eu-west-2",
"UseFIPS": false,
"UseDualStack": false
}
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{
"documentation": "For region eu-west-3 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-west-3.amazonaws.com"
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"params": {
"Region": "eu-west-3",
"UseFIPS": false,

"UseDualStack": false
}
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{
"documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.me-south-1.amazonaws.com"
}
},
"params": {
"Region": "me-south-1",
"UseFIPS": false,
"UseDualStack": false
}
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{
"documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.sa-east-1.amazonaws.com"
}
},
"params": {
"Region": "sa-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-east-1.amazonaws.com"
}
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"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
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"url": "https://license-manager-fips.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-east-2.amazonaws.com"
}

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"params": {
"Region": "us-east-2",
"UseFIPS": false,
"UseDualStack": false
}
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{
"documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-east-2.amazonaws.com"
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"params": {
"Region": "us-east-2",
"UseFIPS": true,
"UseDualStack": false
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{
"documentation": "For region
us-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-west-1.amazonaws.com"
}
},
"params": {
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"UseDualStack": false

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            },
            "params": {

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                "UseDualStack": false
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                "UseDualStack": false
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                "Region": "us-west-2",
                "UseFIPS": true,
                "UseDualStack": false
            }
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            "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-fips.us-east-1.api.aws"
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            }
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            "UseDualStack": true
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                "url": "https://license-manager.us-east-1.api.aws"
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        },
        "params": {
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            "UseFIPS": false,
            "UseDualStack": true
        }
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        "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url":
"https://license-manager.cn-north-1.amazonaws.com.cn"
            }
        },
        "params": {
            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
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        "documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
            }
        },
        "params": {
            "Region": "cn-northwest-1",
            "UseFIPS": false,
            "UseDualStack": false
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}
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{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
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}
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"UseDualStack": false
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}
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"UseDualStack": true
}
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{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
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}

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            "params": {
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              "UseDualStack": false
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            "expect": {
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                "url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
              }
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            "params": {
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              "UseFIPS": true,
              "UseDualStack": false
            }
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            "documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
            "expect": {
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              }
            },
            "params": {
              "Region": "us-gov-west-1",
              "UseFIPS": false,
              "UseDualStack": false
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              }
            },
            "params": {
              "Region": "us-gov-west-1",
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              "UseDualStack": false
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}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
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"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
}
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"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,

"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled
but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
}
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{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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"params": {

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"UseFIPS": true,
"UseDualStack": true
}
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
}
},

"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}
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{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
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"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

"expect": {
"endpoint": {
"url": "https://example.com"
}
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"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
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{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",

"expect": {
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"url": "https://example.com"
}
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"params": {
"UseFIPS": false,

"UseDualStack": false,
"Endpoint": "https://example.com"
}
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{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
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"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
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{
"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error":
"Invalid Configuration: Dualstack and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true,
"Endpoint": "https://example.com"
}
},
{
"documentation": "Missing region",
"expect": {
"error": "Invalid Configuration: Missing Region"
}
}
],
"version": "1.0"
}
}
},

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    "com.amazonaws.licensemanager#AcceptGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#AcceptGrantRequest"

},
        "output": {
            "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"

    }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
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"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#AcceptGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant
ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#AccessDeniedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {

"code": "ServiceAccessDenied",
"httpResponseCode": 401
},
"smithy.api#documentation": " Access to resource denied. ",
"smithy.api#error": "client",
"smithy.api#httpError": 401
}

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},
"com.amazonaws.licensemanager#ActivationOverrideBehavior": {
    "type": "enum",
    "members": {
        "DISTRIBUTED_GRANTS_ONLY": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
            }
        },
        "ALL_GRANTS_PERMITTED_BY_ISSUER": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
            }
        }
    }
},
"com.amazonaws.licensemanager#AllowedOperation": {

"type": "enum",
    "members": {
        "CREATE_GRANT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "CreateGrant"
            }
        },
        "CHECKOUT_LICENSE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "CheckoutLicense"
            }
        },
        "CHECKOUT_BORROW_LICENSE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "CheckoutBorrowLicense"
            }
        },
        "CHECK_IN_LICENSE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "CheckInLicense"
            }
        },
        "EXTEND_CONSUMPTION_LICENSE":
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{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ExtendConsumptionLicense"
}
},
"LIST_PURCHASED_LICENSES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ListPurchasedLicenses"
}
},
"CREATE_TOKEN": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CreateToken"
}
}
}
},
"com.amazonaws.licensemanager#AllowedOperationList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#AllowedOperation"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max":
7
}
}
},
"com.amazonaws.licensemanager#Arn": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
}
},
"com.amazonaws.licensemanager#ArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"

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        }
    },
    "com.amazonaws.licensemanager#AuthorizationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError":
 {
                "code": "AuthorizationFailure",
                "httpResponseCode": 403
            },
            "smithy.api#documentation": "<p>The Amazon Web Services user account does not have permission to
perform the action. Check the IAM\n        policy associated with this account.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 403
        }
    },
    "com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
        "type": "structure",
        "members": {
            "LastRunTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes automated discovery.</p>"
        }
    },

  "com.amazonaws.licensemanager#Boolean": {
        "type": "boolean",
        "traits": {
            "smithy.api#default": false
        }
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    "com.amazonaws.licensemanager#BorrowConfiguration": {
        "type": "structure",
        "members": {
            "AllowEarlyCheckIn": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
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"smithy.api#documentation": " Indicates whether early check-ins are allowed. ",
"smithy.api#required": {}
}
},
"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the borrow configuration, in minutes. ",
"smithy.api#required": {}
}
}

},
"traits": {
"smithy.api#documentation": " Details about a borrow configuration. "
}
},
"com.amazonaws.licensemanager#BoxBoolean": {
"type": "boolean"
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"com.amazonaws.licensemanager#BoxInteger": {
"type": "integer"
},
"com.amazonaws.licensemanager#BoxLong": {
"type": "long"
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"com.amazonaws.licensemanager#CheckInLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"

},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},

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            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseRequest":
 {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicense":
```

```
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
```

"com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
"type": "structure",
"members":
{
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The license must use the borrow consumption configuration. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. Partial checkouts are not supported. ",
"smithy.api#required": {}
}
},
"DigitalSignatureMethod": {
"target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
"traits": {
"smithy.api#documentation": " Digital signature method. The possible value is JSON Web Signature (JWS) algorithm PS384.\n For more information, see RFC 7518 Digital Signature with RSASSA-PSS. ",
"smithy.api#required": {}
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}

```
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>"
                }
            },
            "EntitlementsAllowed":
{
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "SignedToken": {
                "target": "com.amazonaws.licensemanager#SignedToken",
                "traits": {
                    "smithy.api#documentation": "<p>Signed token.</p>"
                }
            },
            "IssuedAt": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license checkout
is issued.</p>"
                }
            },
            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
```

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            "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
            }
        },
        "CheckoutMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
                "smithy.api#documentation": "<p>Information about constraints.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CheckoutLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
     },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target":
```

"com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks out the specified license. \n <note>\n If the account that created the license is the same that is performing the check out, you must\n specify the account as the beneficiary. \n </note>"
}
},
"com.amazonaws.licensemanager#CheckoutLicenseRequest": {
"type": "structure",
"members": {
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. ",
"smithy.api#required": {}
}
},
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. ",
"smithy.api#required": {}
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Key fingerprint identifying the license. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. ",

"smithy.api#required": {}
}
},

"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
"type": "structure",
"members": {
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " Allowed license entitlements. "
}
},

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            "SignedToken": {
              "target": "com.amazonaws.licensemanager#SignedToken",
              "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
              }
            },
            "NodeId": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
              }
            },
            "IssuedAt": {
              "target": "com.amazonaws.licensemanager#ISO8601DateTime",
              "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
              }
            },
            "Expiration": {
              "target": "com.amazonaws.licensemanager#ISO8601DateTime",
              "traits": {
                "smithy.api#documentation": "<p>Date and
time at which the license checkout expires.</p>"
              }
            },
            "LicenseArn": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#output": {}
          }
        },
        "com.amazonaws.licensemanager#CheckoutType": {
          "type": "enum",
          "members": {
            "PROVISIONAL": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "PROVISIONAL"
              }
            },
            "PERPETUAL": {
              "target": "smithy.api#Unit",
              "traits": {
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"smithy.api#enumValue": "PERPETUAL"
}
}
}
}
},
"com.amazonaws.licensemanager#ClientRequestToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 36
}
}
},
"com.amazonaws.licensemanager#ClientToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#ConflictException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ConflictException",
"httpResponseCode":
409
},
"smithy.api#documentation": " There was a conflict processing the request. Try your request again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 409
}
},
"com.amazonaws.licensemanager#ConsumedLicenseSummary": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",

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            "traits": {
                "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
            }
        }
    },

"traits": {
        "smithy.api#documentation": "<p>Details about license consumption.</p>"
    }
  },
  "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
    }
  },
  "com.amazonaws.licensemanager#ConsumptionConfiguration": {
    "type": "structure",
    "members": {
        "RenewType": {
            "target": "com.amazonaws.licensemanager#RenewType",
            "traits": {
                "smithy.api#documentation": "<p>Renewal frequency.</p>"
            }
        },
        "ProvisionalConfiguration": {
            "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
             }
        },
        "BorrowConfiguration": {
            "target": "com.amazonaws.licensemanager#BorrowConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
    }
  },
```

"com.amazonaws.licensemanager#CreateGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target":
"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a grant for the specified license. A grant shares the use of license\n entitlements with a specific Amazon Web Services account, an organization, or an\n organizational unit (OU). For more
information, see Granted licenses in License Manager in the License Manager User Guide. "
}
},
"com.amazonaws.licensemanager#CreateGrantRequest": {
"type": "structure",
"members": {
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",

"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}

}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Principals": {
"target": "com.amazonaws.licensemanager#PrincipalArnList",
"traits": {
"smithy.api#documentation": " The grant principals. You can specify one of the following as an Amazon Resource Name\n (ARN): \n \n \n An Amazon Web Services account, which includes only the account specified. \n \n \n \n \n An organizational unit (OU), which includes all accounts in the OU. \n \n \n \n
\n An organization, which will include all accounts across your organization. \n \n ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}

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        }
    },

    "com.amazonaws.licensemanager#CreateGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersion":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
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            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information, see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",

    "smithy.api#required": {}
                }
            },
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>"
                }
            },
            "AllowedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
```

```
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "StatusReason": {
            "target": "com.amazonaws.licensemanager#StatusReasonMessage",
            "traits": {
                "smithy.api#documentation": "<p>Grant status reason.</p>"
            }
        },
        "SourceVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Current version of the grant.</p>"
            }
        },
        "Options": {
            "target": "com.amazonaws.licensemanager#Options",
            "traits": {
                "smithy.api#documentation": "<p>The options specified for the grant.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
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            "traits": {
                "smithy.api#documentation": "<p>New version of the grant.</p>"
            }
        }
    },
    "traits":
{
        "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#CreateLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
         },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a license.</p>"
    }
  },
  "com.amazonaws.licensemanager#CreateLicenseConfiguration": {
    "type": "operation",
    "input": {
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"target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Creates a license configuration. \n A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a \n license must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "

```
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
                "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
                "smithy.api#required": {}
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Indicates whether hard or soft license enforcement is used.
Exceeding a hard limit\n        blocks the launch of new instances.</p>"
            }
        },
        "LicenseRules": {
            "target":
 "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules. The syntax is #name=value (for example,
#allowedTenancy=EC2-DedicatedHost). The available rules \n        vary by dimension, as follows.</p>\n
<ul>\n            <li>\n                <p>\n                    <code>Cores</code> dimension: <code>allowedTenancy</code> |\n
            <code>licenseAffinityToHost</code> |\n                <code>maximumCores</code> |
<code>minimumCores</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>Instances</code> dimension: <code>allowedTenancy</code> | \n                <code>maximumCores</code> |
<code>minimumCores</code> |\n                <code>maximumSockets</code> | <code>minimumSockets</code> |\n
            <code>maximumVcpus</code> | <code>minimumVcpus</code>\n                </p>\n            </li>\n
<li>\n
  <p>\n                    <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n
<code>licenseAffinityToHost</code> |\n                <code>maximumSockets</code> |
<code>minimumSockets</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n
<code>honorVcpuOptimization</code> | \n                <code>maximumVcpus</code> |
<code>minimumVcpus</code>\n                </p>\n            </li>\n        </ul>\n        <p>The unit for
<code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n        values for
<code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n
<code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n
<code>True</code> and <code>False</code>.</p>"
            }
        },
```

"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the license configuration. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
},
"errors": [

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {

              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
                  "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
                  "smithy.api#required": {}
              }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting
from. \n\n        For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            },
            "DestinationLicenseContext":
 {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
```

"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting to. For the structure of the destination license, see Convert a license type using the CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

"traits": {
"smithy.api#documentation": " The ID of the created license type conversion task. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"

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            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "ReportGeneratorName":
 {
                "target": "com.amazonaws.licensemanager#ReportGeneratorName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>",
                    "smithy.api#required": {}
                }
            },
            "Type": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports to generate. The following report types an be
generated:</p>\n        <ul>\n            <li>\n                <p>License configuration report - Reports the number and
details of consumed licenses for a license configuration.</p>\n            </li>\n            <li>\n                <p>Resource
report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n            </li>\n
</ul>",
                    "smithy.api#required": {}

        }
            },
            "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
                    "smithy.api#documentation": "<p>Defines the type of license configuration the report generator
tracks.</p>",
                    "smithy.api#required": {}
                }
```

```
            },
            "ReportFrequency": {
                "target": "com.amazonaws.licensemanager#ReportFrequency",
                "traits": {
                    "smithy.api#documentation": "<p>Frequency by which reports are generated.  Reports can be
generated daily, monthly, or weekly.</p>",
                    "smithy.api#required": {}
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientRequestToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique,
 case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the report generator.</p>"
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Tags to add to the report generator.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn":
 {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the new report
generator.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
```

```
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product
name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "Issuer": {
                "target": "com.amazonaws.licensemanager#Issuer",
                "traits": {
                    "smithy.api#documentation": "<p>License issuer.</p>",
                    "smithy.api#required": {}
                }
            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Home Region for the license.</p>",
                    "smithy.api#required": {}

  }
            },
            "Validity": {
                "target": "com.amazonaws.licensemanager#DatetimeRange",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
                    "smithy.api#required": {}
```

```
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",
                    "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>",
                    "smithy.api#required": {}
                }
             },
            "ConsumptionConfiguration": {
                "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n          running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n          usage.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation":
 "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
```

```
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        },
        "Version": {
             "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
         },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target":
"com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product name.</p>",
                    "smithy.api#required": {}
                }
            },
            "Issuer": {
                "target": "com.amazonaws.licensemanager#Issuer",
                "traits":
{
                    "smithy.api#documentation": "<p>License issuer.</p>",
                    "smithy.api#required": {}
                }
            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

"smithy.api#documentation": " Home Region of the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},

"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}

```
            }
          },
          "SourceVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Current version of the license.</p>"
            }
          }
        },
        "traits": {

"smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>License ARN.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>New version of the license.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
              "smithy.api#documentation": "<p>License status.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output":
{}
        }
      },
      "com.amazonaws.licensemanager#CreateToken": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateTokenRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateTokenResponse"
```

```
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#RedirectException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },

      {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Creates a long-lived token.</p>\n        <p>A refresh token is a JWT token used to get an access token. With an access token,\n        you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n        call License Manager to manage the specified license.</p>"
        }
      },
      "com.amazonaws.licensemanager#CreateTokenRequest": {
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits":
 {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n        JWT token.</p>",
              "smithy.api#required": {}
            }
          },
          "RoleArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
```

"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n License Manager does not check whether the roles are in use. "
}
},
"ExpirationInDays": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Token expiration, in days, counted from token creation. The default is 365 days. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller to be included in the JWT token. The data is mapped\n to the amr claim of the JWT token. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Idempotency token, valid for 10 minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateTokenResponse": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Token ID. "
}
},
"TokenType": {
"target": "com.amazonaws.licensemanager#TokenType",
"traits": {
"smithy.api#documentation": " Token type. "
}
},
"Token": {

```
            "target": "com.amazonaws.licensemanager#TokenString",
            "traits": {
                "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#DateTime": {
    "type": "timestamp"
},
"com.amazonaws.licensemanager#DatetimeRange": {
    "type": "structure",
    "members": {
        "Begin": {
             "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Start of the time range.</p>",
                "smithy.api#required": {}
            }
        },
        "End": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>End of the time range.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
    }
},
"com.amazonaws.licensemanager#DeleteGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
     },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes
the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the
grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
```

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation":
" Grant version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},

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            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
        },

    "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
```

"smithy.api#documentation": " Deletes the specified license configuration. \n You cannot delete a license configuration that is in use. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
"type": "structure",
"members":
{
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the license configuration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},

{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified report generator. \n This action deletes the report generator, which stops it from generating future reports.\n The action cannot be reversed. It has no effect on the previous reports from this generator. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to be deleted. ",
"smithy.api#required": {}
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",

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            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "SourceVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Current version of the license.</p>",
                "smithy.api#required":
{}
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#DeleteLicenseResponse": {
    "type": "structure",
    "members": {
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        },
        "DeletionDate": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date when the license is deleted.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#DeleteToken": {
    "type": "operation",
     "input": {
        "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
    },
    "errors": [
        {
```

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},

{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified token. Must be called in the license home Region. "
}
},
"com.amazonaws.licensemanager#DeleteTokenRequest": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteTokenResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}

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        }
    },
    "com.amazonaws.licensemanager#DigitalSignatureMethod": {
        "type": "enum",
        "members": {
            "JWT_PS384": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "JWT_PS384"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#Entitlement": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement name.</p>",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement resource. Use only
if the unit is None.</p>"
                }
            },
            "MaxCount": {
                "target": "com.amazonaws.licensemanager#Long",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
                }
            },
            "Overage": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether overages are allowed.</p>"
                }
            },
            "Unit": {
                "target": "com.amazonaws.licensemanager#EntitlementUnit",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement unit.</p>",
                    "smithy.api#required": {}
                }
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            },
            "AllowCheckIn": {
                "target":
"com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether check-ins are allowed.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes a resource entitled for use with a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementData": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement data name.</p>",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement
data value.</p>"
                }
            },
            "Unit": {
                "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement data unit.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Data associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementDataList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementData"
        }
    },
```

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    "com.amazonaws.licensemanager#EntitlementDataUnit": {
      "type": "enum",
      "members": {
        "COUNT": {
          "target": "smithy.api#Unit",
          "traits": {

"smithy.api#enumValue": "Count"
          }
        },
        "NONE": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "None"
          }
        },
        "SECONDS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Seconds"
          }
        },
        "MICROSECONDS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Microseconds"
          }
        },
        "MILLISECONDS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Milliseconds"
          }
        },
        "BYTES": {
          "target": "smithy.api#Unit",
           "traits": {
            "smithy.api#enumValue": "Bytes"
          }
        },
        "KILOBYTES": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Kilobytes"
          }
        },
        "MEGABYTES": {
          "target": "smithy.api#Unit",
```

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            "traits": {
                "smithy.api#enumValue": "Megabytes"
            }
        },
        "GIGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabytes"
            }
        },
        "TERABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabytes"
            }
        },
        "BITS":
{
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bits"
            }
        },
        "KILOBITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobits"
            }
        },
        "MEGABITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabits"
            }
        },
        "GIGABITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabits"
            }
        },
        "TERABITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits"

    }
        },
```

```
"PERCENT": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Percent"
    }
},
"BYTES_PER_SECOND": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Bytes/Second"
    }
},
"KILOBYTES_PER_SECOND": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Kilobytes/Second"
    }
},
"MEGABYTES_PER_SECOND": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Megabytes/Second"
    }
},
"GIGABYTES_PER_SECOND": {
    "target": "smithy.api#Unit",
     "traits": {
        "smithy.api#enumValue": "Gigabytes/Second"
    }
},
"TERABYTES_PER_SECOND": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Terabytes/Second"
    }
},
"BITS_PER_SECOND": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Bits/Second"
    }
},
"KILOBITS_PER_SECOND": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Kilobits/Second"
    }
},
```

"MEGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue":
"Megabits/Second"
}
},
"GIGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits/Second"
}
},
"TERABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits/Second"
}
},
"COUNT_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count/Second"
}
}
}
},
"com.amazonaws.licensemanager#EntitlementList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Entitlement"
}
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The entitlement is not allowed. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#EntitlementUnit": {

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        "type": "enum",
        "members": {
          "COUNT": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Count"
            }
          },
          "NONE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "None"
            }
          },
          "SECONDS":
{
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Seconds"
            }
          },
          "MICROSECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Microseconds"
            }
          },
          "MILLISECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Milliseconds"
            }
          },
          "BYTES": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Bytes"
            }
          },
          "KILOBYTES": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Kilobytes"
             }
          },
          "MEGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
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"smithy.api#enumValue": "Megabytes"
}
},
"GIGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes"
}
},
"TERABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"
}
},
"PERCENT": {
"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target":
"smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"
}
},
"KILOBYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes/Second"
}
},
"MEGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes/Second"
}
},
"GIGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes/Second"
}
},
"TERABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Terabytes/Second"
}
},
"BITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits/Second"
}
},
"KILOBITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits/Second"
}
},

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        "MEGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabits/Second"
            }
        },
        "GIGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabits/Second"
            }
        },

    "TERABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits/Second"
            }
        },
        "COUNT_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Count/Second"
            }
        }
    }
},
"com.amazonaws.licensemanager#EntitlementUsage": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                "smithy.api#required": {}
            }
        },
        "ConsumedValue": {
            "target": "com.amazonaws.licensemanager#String",

        "traits": {
                "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxCount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
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"smithy.api#documentation": " Maximum entitlement usage count. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {
"smithy.api#documentation": " Entitlement usage unit. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Usage associated with an entitlement resource. "
}
},
"com.amazonaws.licensemanager#EntitlementUsageList":
{
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#EntitlementUsage"
}
},
"com.amazonaws.licensemanager#ExtendLicenseConsumption": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"

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            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}

      }
            },
            "DryRun": {
                "target": "com.amazonaws.licensemanager#Boolean",
                "traits": {
                    "smithy.api#default": false,
                    "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>"
                }
            },

            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
                }
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            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#FailedDependencyException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            },
            "ErrorCode": {
                "target": "com.amazonaws.licensemanager#String"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "FailedDependency",
                "httpResponseCode": 424
            },
            "smithy.api#documentation":
 "<p>A dependency required to run the API is missing.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 424
        }
    },
    "com.amazonaws.licensemanager#Filter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#FilterName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the filter. Filter names are case-sensitive.</p>"
                }
            },
            "Values": {
                "target": "com.amazonaws.licensemanager#FilterValues",
                "traits": {
                    "smithy.api#documentation": "<p>The value of the filter, which is case-sensitive. You can only
specify one value for the filter.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A filter
 name and value pair that is used to return more specific results from a\n        describe operation. Filters can be used
to match a set of resources by specific criteria,\n        such as tags, attributes, or IDs.</p>"
```

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    }
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "FilterLimitExceeded",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#FilterList": {
    "type": "list",
     "member": {
        "target": "com.amazonaws.licensemanager#Filter"
    }
},
"com.amazonaws.licensemanager#FilterName": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#FilterValue",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#Filters": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Filter",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
```

```
    },
    "com.amazonaws.licensemanager#GetAccessToken": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access
 tokens\n          are valid for one hour.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenRequest": {
        "type": "structure",
        "members": {
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT
token.</p>"
                }
```

```
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenResponse":
{
        "type": "structure",
        "members": {
            "AccessToken": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Temporary access token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"

        },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
```

```
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
                "smithy.api#documentation": "<p>Grant details.</p>"
            }
        }
    },
    "traits": {

"smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",
    "input": {
```

"target": "com.amazonaws.licensemanager#GetLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"

},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license
configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits":
 {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            },
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

"smithy.api#documentation": " Name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension for which the licenses are counted. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",

"traits": {
"smithy.api#documentation": " Number of available licenses. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Sets the number of available licenses as a hard limit. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses assigned to resources. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License configuration status. "
}

},
"OwnerAccountId": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When
true, disassociates a resource when software is uninstalled. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified license type conversion task. "
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {

"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted to. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " Status of the license type conversion task. "
}
},

"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was started . "
}
},
"LicenseConversionTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " Amount of time to complete the license type conversion. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was completed. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified report generator. "
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. ",
"smithy.api#required":
{}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"ReportGenerator": {
"target": "com.amazonaws.licensemanager#ReportGenerator",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic reports about your license configurations. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}

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            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseResponse": {
        "type": "structure",
        "members": {
            "License": {
                "target": "com.amazonaws.licensemanager#License",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },

    "com.amazonaws.licensemanager#GetLicenseUsage": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

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            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

    "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageResponse": {
        "type": "structure",
        "members": {
            "LicenseUsage": {
                "target":
"com.amazonaws.licensemanager#LicenseUsage",
                "traits": {
                    "smithy.api#documentation": "<p>License usage details.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
        },
        "output": {
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"target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets the License Manager settings for the current Region. "
}
},
"com.amazonaws.licensemanager#GetServiceSettingsRequest": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Regional S3 bucket path for storing reports, license trail event data, discovery data,\n and so on. "

}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " SNS topic configured to receive notifications from License Manager. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {

"smithy.api#documentation": " Indicates whether Organizations is integrated with License Manager for\n cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether cross-account discovery is enabled. "
}

},
"LicenseManagerResourceShareArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource share. The License Manager management account \n provides member accounts with access to this share. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#Grant": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"ParentArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Parent ARN. ",
"smithy.api#required": {}
}
},

"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. ",
"smithy.api#required": {}
}
},
"GranteePrincipalArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {

"smithy.api#documentation": " The grantee principal ARN. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. ",
"smithy.api#required": {}
}
},
"GrantedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Granted operations. ",
"smithy.api#required": {}
}

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            },
            "Options": {
                "target": "com.amazonaws.licensemanager#Options",
                "traits": {
                    "smithy.api#documentation": "<p>The options specified for the grant.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
"<p>Describes a grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#GrantList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Grant"
        }
    },
    "com.amazonaws.licensemanager#GrantStatus": {
        "type": "enum",
        "members": {
            "PENDING_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_WORKFLOW"
                }
            },
            "PENDING_ACCEPT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_ACCEPT"
                }
            },
            "REJECTED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "REJECTED"

            }
            },
            "ACTIVE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "ACTIVE"
                }
            },
            "FAILED_WORKFLOW": {
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"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "FAILED_WORKFLOW"
}
},
"DELETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DELETED"
}
},
"PENDING_DELETE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_DELETE"
}
},
"DISABLED": {
"target": "smithy.api#Unit",
"traits":
{
"smithy.api#enumValue": "DISABLED"
}
},
"WORKFLOW_COMPLETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "WORKFLOW_COMPLETED"
}
}
}
},
"com.amazonaws.licensemanager#GrantedLicense": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. "
}

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},
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product name.</p>"
          }
        },
        "ProductSKU": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product SKU.</p>"
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#IssuerDetails",
          "traits": {
            "smithy.api#documentation": "<p>Granted license issuer.</p>"
          }
        },
        "HomeRegion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Home Region of the granted license.</p>"

         }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#LicenseStatus",
          "traits": {
            "smithy.api#documentation": "<p>Granted license status.</p>"
          }
        },
        "Validity": {
          "target": "com.amazonaws.licensemanager#DatetimeRange",
          "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the granted license is valid, in
ISO8601-UTC format.</p>"
          }
        },
        "Beneficiary": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Granted license beneficiary.</p>"
          }
        },
        "Entitlements": {
          "target": "com.amazonaws.licensemanager#EntitlementList",
```

"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Granted license metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Creation time of the granted license. "

}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Version of the granted license. "
}
},
"ReceivedMetadata": {
"target": "com.amazonaws.licensemanager#ReceivedMetadata",
"traits": {
"smithy.api#documentation": " Granted license received metadata. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a license that is granted to a grantee. "
}
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#GrantedLicense"
}
},
"com.amazonaws.licensemanager#ISO8601DateTime":

```
{
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            },
            "smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[ 0-3]|[0-1][0-9]):[0-5][0-9])+$"
        }
    },
    "com.amazonaws.licensemanager#Integer": {
        "type": "integer"
    },
    "com.amazonaws.licensemanager#InvalidParameterValueException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidParameterValueProvided",
                "httpResponseCode": 400
            },
            "smithy.api#documentation":
 "<p>One or more parameter values are not valid.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InvalidResourceStateException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidResourceState",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its state. </p>\n        <p>For example, you cannot allocate a license to an instance in the process of shutting\n down.</p>",
            "smithy.api#error": "client",
```

```
            "smithy.api#httpError": 400
        }
    },

    "com.amazonaws.licensemanager#InventoryFilter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the filter.</p>",
                    "smithy.api#required": {}
                }
            },
            "Condition": {
                "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
                "traits": {
                    "smithy.api#documentation": "<p>Condition of the filter.</p>",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Value of the filter.</p>"
                }
            }

    },
        "traits": {
            "smithy.api#documentation": "<p>An inventory filter.</p>"
        }
    },
    "com.amazonaws.licensemanager#InventoryFilterCondition": {
        "type": "enum",
        "members": {
            "EQUALS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "EQUALS"
                }
            },
            "NOT_EQUALS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "NOT_EQUALS"
                }
            },
```

"BEGINS_WITH": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "BEGINS_WITH"
}
},
"CONTAINS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CONTAINS"
}
}
}
},
"com.amazonaws.licensemanager#InventoryFilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#InventoryFilter"
}
},
"com.amazonaws.licensemanager#Issuer": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. ",
"smithy.api#required": {}
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage
of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about the issuer of a license. "
}
},
"com.amazonaws.licensemanager#IssuerDetails": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Issuer name. "
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer key fingerprint. "
}
}
},
"traits": {
"smithy.api#documentation": " Details associated with the issuer of a license. "
}
},
"com.amazonaws.licensemanager#License": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " License name. "
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " License issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Home Region of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"Entitlements": {

"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},

"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " License metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License
creation time. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#documentation": " Software license that is managed in License Manager. "
}
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
"type": "structure",
"members": {
"LicenseConfigurationId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Unique ID of the license configuration. "
}
},
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension to use to track the license inventory. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Number of available licenses as a hard limit. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the license configuration. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Account ID of the license configuration's owner. "

}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for licenses consumed by various resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {

"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}

```
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of server resource.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the resource
consuming licenses.</p>"
                }
            },
            "AssociationTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {

    "smithy.api#documentation": "<p>Time when the license configuration was associated with the resource.</p>"
                }
            },
            "AmiAssociationScope": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes an association with a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
        "type": "enum",
        "members":
 {
            "AVAILABLE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "AVAILABLE"
                }
```

```
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DISABLED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits":
{
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceStatus": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Status of the resource.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
                }
            },
            "AssociationTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time when the license configuration was initially associated with
the resource.</p>"
                }
            },

    "ConsumedLicenses": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
```

"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
}
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfiguration"
}
},
"com.amazonaws.licensemanager#LicenseConversionContext": {

"type": "structure",
"members": {
"UsageOperation": {
"target": "com.amazonaws.licensemanager#UsageOperation",
"traits": {
"smithy.api#documentation": " The Usage operation value that corresponds to the license type you are converting your resource from. For more information about which platforms correspond to which usage operation values see Sample data: usage operation by platform\n \n "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTask": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {

"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the license type conversion task. "
}

},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource associated with the license type\n conversion task. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted to. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " The status of the conversion task. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was started at. "
}
},
"LicenseConversionTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the usage operation value of the resource was changed. "
}

```
        },
        "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseConversionTaskId": {
    "type": "string",
    "traits": {

   "smithy.api#length": {
            "min": 0,
            "max": 50
        },
        "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
    }
},
"com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
    "type": "enum",
    "members": {
        "IN_PROGRESS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "IN_PROGRESS"
            }
        },
        "SUCCEEDED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "SUCCEEDED"
            }
        },
        "FAILED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "FAILED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseConversionTasks":
```

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{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTask"
        }
    },
    "com.amazonaws.licensemanager#LicenseCountingType": {
        "type": "enum",
        "members": {
            "VCPU": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "vCPU"
                }
            },
            "INSTANCE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Instance"
                }
            },
            "CORE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Core"
                }
            },
            "SOCKET": {
                "target": "smithy.api#Unit",
                 "traits": {
                    "smithy.api#enumValue": "Socket"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#LicenseDeletionStatus": {
        "type": "enum",
        "members": {
            "PENDING_DELETE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_DELETE"
                }
            },
            "DELETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DELETED"
```

```
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {

    "type": "structure",
    "members": {
        "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
        },
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Resource type.</p>"
            }
        },
        "ErrorMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Error message.</p>"
            }
        },
        "FailureTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {

"smithy.api#documentation": "<p>Failure time.</p>"
            }
        },
        "OperationName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the operation.</p>"
            }
        },
        "ResourceOwnerId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource. "
}
},
"OperationRequestedBy": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The requester is \"License Manager Automated Discovery\". "
}
},
"MetadataList": {

"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Reserved. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the failure of a license operation. "
}
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailure"
}
},
"com.amazonaws.licensemanager#LicenseSpecification": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",

"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},

```
    "traits": {
        "smithy.api#documentation": "<p>Details for associating a license configuration with a resource.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#LicenseSpecification"
    }
},
"com.amazonaws.licensemanager#LicenseStatus": {
    "type": "enum",
    "members": {
        "AVAILABLE": {
            "target": "smithy.api#Unit",

        "traits": {
                "smithy.api#enumValue": "AVAILABLE"
            }
        },
        "PENDING_AVAILABLE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_AVAILABLE"
            }
        },
        "DEACTIVATED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DEACTIVATED"
            }
        },
        "SUSPENDED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "SUSPENDED"
            }
        },
        "EXPIRED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EXPIRED"
            }
        },

     "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
```

"smithy.api#enumValue": "PENDING_DELETE"
}
},
"DELETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DELETED"
}
}
}
},
"com.amazonaws.licensemanager#LicenseUsage": {
"type": "structure",
"members": {
"EntitlementUsages": {
"target": "com.amazonaws.licensemanager#EntitlementUsageList",
"traits": {
"smithy.api#documentation": " License entitlement usages. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the entitlement usage associated with a license. "

}
},
"com.amazonaws.licensemanager#LicenseUsageException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "LicenseUsageFailure",
"httpResponseCode": 412
},
"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"

```
        },
        "output": {

    "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the resource associations for the
 specified license configuration.</p>\n        <p>Resource associations need not consume licenses from a license
configuration. \n        For example, an AMI or a stopped instance might not consume a license (depending on \n
the license rules).</p>"
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results
 to return in a single call.</p>"
                }
```

```
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationAssociations": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the associations for the license
configuration.</p>"
                }
            },
            "NextToken": {

 "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListDistributedGrants": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants distributed for the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
        "type": "structure",
        "members": {
            "GrantArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {

            "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>LicenseArn</code>\n            </p>\n
        </li>\n            <li>\n                <p>\n                <code>GrantStatus</code>\n            </p>\n            </li>\n
    <li>\n                <p>\n                <code>GranteePrincipalARN</code>\n            </p>\n            </li>\n
<li>\n                <p>\n                <code>ProductSKU</code>\n            </p>\n            </li>\n            <li>\n
<p>\n                <code>LicenseIssuerName</code>\n
        </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
```

```
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
        "type": "structure",
        "members": {
            "Grants": {
                "target": "com.amazonaws.licensemanager#GrantList",

    "traits": {
                    "smithy.api#documentation": "<p>Distributed grant details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
        },
        "errors": [
            {

"target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configuration operations that failed.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse":
{
        "type": "structure",
        "members": {
            "LicenseOperationFailureList": {
                "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
```

"traits": {
"smithy.api#documentation": " License configuration operations that failed. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
},

"output": {
"target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configurations
for your account. "
}

```
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next
 set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n                Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n                Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n                <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n                Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n
    </li>\n            <li>\n                <p>\n                <code>usagelimitExceeded</code> - A Boolean value that
indicates whether the available licenses have been exceeded. \n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
        "type": "structure",
        "members": {
```

```
        "LicenseConfigurations": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurations",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license configurations.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",

      "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasks": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
         },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
```

"type": "structure",
"members": {
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " \n Filters to scope the results. Valid filters are <code>ResourceArns</code> and <code>Status</code>.\n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
"type": "structure",
"members": {
"LicenseConversionTasks": {
"target": "com.amazonaws.licensemanager#LicenseConversionTasks",
"traits": {
"smithy.api#documentation": " Information about the license configuration tasks for your account. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},

"com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target":
"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the report generators for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest":
{
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported:
\n \n \n \n <code>LicenseConfigurationArn</code>\n

```
</p>\n            </li>\n         </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits":
 {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
            "ReportGenerators": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorList",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }

        }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
        },
```

"output": {
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Describes the license configurations for the specified resource. "
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a resource that has an associated license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}

```
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {
        "LicenseSpecifications": {
            "target": "com.amazonaws.licensemanager#LicenseSpecifications",
            "traits": {
                "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
            }
        },
        "NextToken": {
             "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
         },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
```

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
        "type": "structure",
        "members": {
            "Licenses": {
                "target": "com.amazonaws.licensemanager#LicenseList",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            },

"NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
```

```
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the licenses for your account.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicensesRequest": {
    "type": "structure",
    "members": {
        "LicenseArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
            }
        },
```

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>Status</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#LicenseList",
"traits": {
"smithy.api#documentation": " License details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}

},
"com.amazonaws.licensemanager#ListReceivedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists grants that are received. Received grants are grants created while specifying the\n recipient as this Amazon Web Services account, your organization, or an organizational unit\n (OU) to which this member account belongs. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target":
"com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants received for all accounts in the organization. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the received license. ",
"smithy.api#required": {}
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are
supported: \n
\n \n \n <code>ParentArn</code>\n \n \n
\n \n <code>GranteePrincipalArn</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse":
{
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Lists the grants the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are

supported: \n \n \n \n <code>ProductSKU</code>\n \n
\n \n \n <code>LicenseIssuerName</code>\n \n
\n \n \n <code>LicenseArn</code>\n \n \n
\n \n <code>GrantStatus</code>\n \n \n \n
\n
<code>GranterAccountId</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Received grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
"type": "operation",
"input": {

"target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists received licenses. "
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
{
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

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            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {

        "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the licenses received for all accounts in the organization.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>Beneficiary</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                <code>ProductSKU</code>\n
            </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
```

```
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
        "type": "structure",
        "members": {
            "Licenses": {
                "target": "com.amazonaws.licensemanager#GrantedLicenseList",
                 "traits": {
                    "smithy.api#documentation": "<p>Lists the licenses the organization has received.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
        "type": "structure",
        "members": {
            "LicenseArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
                }
            },

             "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>ProductSKU</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                <code>Status</code>\n                </p>\n            </li>\n
<li>\n                <p>\n                <code>Fingerprint</code>\n                </p>\n            </li>\n            <li>\n
<p>\n                <code>IssuerName</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>Beneficiary</code>\n                </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
```

```
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
    "type": "structure",
    "members": {
        "Licenses": {
            "target": "com.amazonaws.licensemanager#GrantedLicenseList",
            "traits": {
                "smithy.api#documentation": "<p>Received license details.</p>"
            }
        },

        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListResourceInventory": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
```

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            {
                "target": "com.amazonaws.licensemanager#FailedDependencyException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#InventoryFilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n are supported:</p>\n <ul>\n <li>\n <p>\n <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n
</li>\n <li>\n <p>\n <code>application_name</code> - The name of the application. \n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n
</li>\n <li>\n <p>\n <code>license_included</code> - The type of license included. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n Possible values are <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>.</p>\n </li>\n <li>\n
```

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    <p>\n                <code>platform</code> - The platform of the resource.\n              Logical operators are
<code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n            </li>\n            <li>\n              <p>\n
        <code>resource_id</code> - The ID of the resource. \n              Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n              <p>\n
      <code>tag:<key></code> - The key/value combination of a tag assigned \n              to the resource. Logical
operators are <code>EQUALS</code> (single account) or\n              <code>EQUALS</code> |
<code>NOT_EQUALS</code> (cross account).</p>\n            </li>\n        </ul>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryResponse": {
        "type": "structure",
        "members": {
            "ResourceInventoryList": {
                "target": "com.amazonaws.licensemanager#ResourceInventoryList",
                "traits": {
                    "smithy.api#documentation": "<p>Information
 about the resources.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
```

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the tags for the specified license configuration. "
}
},
"com.amazonaws.licensemanager#ListTagsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",

"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListTagsForResourceResponse": {
"type": "structure",
"members": {
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Information about the tags. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListTokens": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListTokensRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListTokensResponse"
},
"errors":
[
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists your tokens. "
}
},
"com.amazonaws.licensemanager#ListTokensRequest": {
"type": "structure",
"members": {
"TokenIds": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " Token IDs. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filter is supported: \n
\n \n \n <code>LicenseArns</code>\n \n \n
"
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation":
" Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListTokensResponse": {
"type": "structure",
"members": {
"Tokens": {
"target": "com.amazonaws.licensemanager#TokenList",
"traits": {
"smithy.api#documentation": " Received token details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists all license usage records for a license configuration, displaying license\n consumption details by resource at a selected point in time. Use this action to audit the\n current license consumption for any license inventory and configuration. "
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {

"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>resourceArn</code> - The ARN of the license configuration resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceAccount</code> - The ID of the account that owns the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
"type": "structure",
"members": {

"LicenseConfigurationUsageList": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#Location": {
"type": "string"
},
"com.amazonaws.licensemanager#Long": {
"type": "long"
},
"com.amazonaws.licensemanager#ManagedResourceSummary": {
"type": "structure",

"members": {
"ResourceType":
{
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of resource associated with a license. "
}
},
"AssociationCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of resources associated with licenses. "
}
}
},
"traits": {
"smithy.api#documentation": " Summary information about a managed resource. "
}
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummary"
}
},
"com.amazonaws.licensemanager#MaxSize100": {

"type": "integer",
"traits": {
"smithy.api#range": {
"min": 1,
"max": 100
}
}
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#String"
},
"traits": {
"smithy.api#length": {
"min": 0,
"max": 3
}
}
},
"com.amazonaws.licensemanager#Message": {

"type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The key name. "
}
},

"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The value. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes key/value pairs. "
}
},
"com.amazonaws.licensemanager#MetadataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Metadata"
}
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#Options": {
"type": "structure",
"members": {
"ActivationOverrideBehavior": {
"target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",

"traits": {
"smithy.api#documentation": " An activation option for your grant that determines the behavior of activating a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter. \n \n \n As a license administrator, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant. \n \n \n As a grantor, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your organization. \n \n \n As a grantee, if the grantor creating the distributed grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n are activating the grant. \n \n \n <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n Use this value to activate a grant without replacing any member accounts\n active grants for the same product. \n </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n Use this value to activate a grant and disable other active grants in any\n member accounts
for the same product. This action will also replace their\n previously activated grants with this activated grant. \n </dd>\n </dl>"
}
}
},
"traits": {
"smithy.api#documentation": " The options you can specify when you create a new version of a grant, such as activation\n override behavior. For more information, see Granted licenses in License Manager in the License Manager User Guide. "
}
},
"com.amazonaws.licensemanager#OrganizationConfiguration": {
"type": "structure",
"members": {
"EnableIntegration": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#default": false,
"smithy.api#documentation": " Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"

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        },
        "traits": {
          "smithy.api#length": {
            "min": 1,
            "max": 1
          }
        }
      },
      "com.amazonaws.licensemanager#ProductInformation": {
        "type": "structure",
        "members": {
          "ResourceType": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Resource type. The
possible values are <code>SSM_MANAGED</code> | <code>RDS</code>.</p>",
              "smithy.api#required": {}
            }
          },
          "ProductInformationFilterList": {
            "target": "com.amazonaws.licensemanager#ProductInformationFilterList",
            "traits": {
              "smithy.api#documentation": "<p>A Product information filter consists of a
<code>ProductInformationFilterComparator</code> which is a logical operator, a
<code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a
<code>ProductInformationFilterValue</code> that specifies the value to filter on. </p>\n <p>Accepted values
for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for
<code>ProductInformationFilterComparator</code>. </p>\n <p>The following filters and are supported when
the resource type \n is <code>SSM_MANAGED</code>:</p>\n
<ul>\n <li>\n <p>\n <code>Application Name</code> - The name of the
application.\n Logical operator is <code>EQUALS</code>.</p>\n </li>\n <li>\n
<p>\n <code>Application Publisher</code> - The publisher of the application.\n Logical
operator is <code>EQUALS</code>.</p>\n </li>\n <li>\n <p>\n
<code>Application Version</code> - The version of the application.\n Logical operator is
<code>EQUALS</code>.</p>\n </li>\n <li>\n <p>\n <code>Platform
Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>.</p>\n
</li>\n <li>\n <p>\n <code>Platform Type</code> - The platform type.\n
Logical operator is <code>EQUALS</code>.</p>\n
</li>\n <li>\n <p>\n <code>Tag:key</code> - The key of a tag attached to an
Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is
<code>NOT_EQUALS</code>.  The key for your tag must be appended to <code>Tag:</code> following the
example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you
are not using values for the key.\n </p>\n </li>\n <li>\n <p>\n
<code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from
automated discovery.\n Logical operator is <code>NOT_EQUALS</code>.</p>\n </li>\n
<li>\n <p>\n <code>License Included</code> - The type of license included.\n Logical
operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are:
```

```
 <code>sql-server-enterprise</code> | \n            <code>sql-server-standard</code> | \n            <code>sql-server-web</code> |  \n            <code>windows-server-datacenter</code>.</p>\n          </li>\n        </ul>\n
<p>The following filters and logical operators are supported when the resource type\n        is <code>RDS</code>:</p>\n        <ul>\n          <li>\n            <p>\n              <code>Engine Edition</code> - The edition of the database engine.\n            Logical operator is <code>EQUALS</code>.\n            Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>.</p>\n          </li>\n          <li>\n            <p>\n              <code>License Pack</code> - The license pack.\n            Logical operator is <code>EQUALS</code>.\n            Possible values are: <code>data guard</code> | \n            <code>diagnostic pack sqlt</code> | \n
            <code>tuning pack sqlt</code> | \n            <code>ols</code> | \n            <code>olap</code>.</p>\n
    </li>\n        </ul>",
                "smithy.api#required": {}
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Describes product information for a license configuration.</p>"
          }
        },
        "com.amazonaws.licensemanager#ProductInformationFilter": {
          "type": "structure",
          "members": {
            "ProductInformationFilterName": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Filter name.</p>",
                "smithy.api#required": {}
              }
            },
            "ProductInformationFilterValue": {
              "target": "com.amazonaws.licensemanager#StringList",

           "traits": {
                "smithy.api#documentation": "<p>Filter value.</p>"
              }
            },
            "ProductInformationFilterComparator": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Logical operator.</p>",
                "smithy.api#required": {}
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Describes product information filters.</p>"
          }
        },
```

"com.amazonaws.licensemanager#ProductInformationFilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ProductInformationFilter"
}
},
"com.amazonaws.licensemanager#ProductInformationList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ProductInformation"
}
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
"type": "structure",
"members": {
"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the provisional configuration, in minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"com.amazonaws.licensemanager#RateLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "RateLimitExceeded",
"httpResponseCode": 429
},
"smithy.api#documentation": " Too many requests have been submitted. Try again after a brief wait. ",
"smithy.api#error": "client",
"smithy.api#httpError": 429
}
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
"type": "structure",
"members": {

"ReceivedStatus": {
"target": "com.amazonaws.licensemanager#ReceivedStatus",
"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Received
status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations. "
}
}
},
"traits": {
"smithy.api#documentation": " Metadata associated with received licenses and grants. "
}
},
"com.amazonaws.licensemanager#ReceivedStatus": {
"type": "enum",
"members": {
"PENDING_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_WORKFLOW"
}
},
"PENDING_ACCEPT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue":
"PENDING_ACCEPT"
}
},
"REJECTED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REJECTED"
}
},
"ACTIVE": {
"target": "smithy.api#Unit",

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            "traits": {
                "smithy.api#enumValue": "ACTIVE"
            }
        },
        "FAILED_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        },
        "DISABLED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DISABLED"
            }
        },
        "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#RedirectException": {
    "type": "structure",
    "members": {
        "Location": {
            "target": "com.amazonaws.licensemanager#Location",
            "traits": {
                "smithy.api#httpHeader": "Location"
            }
        },
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 308
    }
```

```
    },
    "com.amazonaws.licensemanager#RejectGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#RejectGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#RejectGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
```

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        "traits": {
            "smithy.api#input": {}

    }
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#RenewType":
{
        "type": "enum",
        "members": {
            "NONE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "None"
                }
            },
            "WEEKLY": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Weekly"
                }
            },
            "MONTHLY": {
```

"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Monthly"
}
}
}
},
"com.amazonaws.licensemanager#ReportContext": {
"type": "structure",
"members": {
"licenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details of the license configuration that this generator reports on. "
}
},
"com.amazonaws.licensemanager#ReportFrequency": {
"type": "structure",
"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "
}
},
"period": {
"target": "com.amazonaws.licensemanager#ReportFrequencyType",

"traits": {
"smithy.api#documentation": " Time period between each report. The period can be daily, weekly, or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"com.amazonaws.licensemanager#ReportFrequencyType": {

"type": "enum",
"members": {
"DAY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DAY"
}
},
"WEEK": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "WEEK"
}
},
"MONTH": {
"target": "smithy.api#Unit",
"traits":
{
"smithy.api#enumValue": "MONTH"
}
}
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the report generator. "
}
},
"ReportType": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports that are generated. "
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " License
configuration type for this generator. "
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {

"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. "
}
},
"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}
},
"LastRunFailureReason":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Failure message for the last report generation attempt. "
}
},
"LastReportGenerationTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the last report was generated at. "
}
},
"ReportCreatorAccount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Web Services account ID used to create the report generator. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}

```
        },
        "CreateTime": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Time the report was created.</p>"
            }
        },
        "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
                "smithy.api#documentation": "<p>Tags associated with the report generator.</p>"
            }

}
    },
    "traits": {
        "smithy.api#documentation": "<p>Describe the details of a report generator.</p>"
    }
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportGenerator"
    }
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#ReportType": {
    "type": "enum",
    "members": {
        "LICENSE_CONFIGURATION_SUMMARY_REPORT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "LicenseConfigurationSummaryReport"
            }

},
        "LICENSE_CONFIGURATION_USAGE_REPORT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "LicenseConfigurationUsageReport"
```

```
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ReportTypeList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#ReportType"
        }
      },
      "com.amazonaws.licensemanager#ResourceInventory": {
        "type": "structure",
        "members": {
          "ResourceId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>ID of the resource.</p>"
            }
          },
          "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits":
{
              "smithy.api#documentation": "<p>Type of resource.</p>"
            }
          },
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
          },
          "Platform": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Platform of the resource.</p>"
            }
          },
          "PlatformVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
            }
          },
          "ResourceOwningAccountId":
{
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " ID of the account that owns the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a resource. "
}
},
"com.amazonaws.licensemanager#ResourceInventoryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ResourceInventory"
}
},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ResourceLimitExceeded",

"httpResponseCode": 400
},
"smithy.api#documentation": " Your resource limits have been exceeded. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidResource.NotFound",
"httpResponseCode": 400
},
"smithy.api#documentation": " The resource cannot be found. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}

```
},
"com.amazonaws.licensemanager#ResourceType": {
    "type": "enum",
     "members": {
        "EC2_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_INSTANCE"
            }
        },
        "EC2_HOST": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_HOST"
            }
        },
        "EC2_AMI": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_AMI"
            }
        },
        "RDS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "RDS"
            }
        },
        "SYSTEMS_MANAGER_MANAGED_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                 "smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
            }
        }
    }
},
"com.amazonaws.licensemanager#S3Location": {
    "type": "structure",
    "members": {
        "bucket": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the S3 bucket reports are published to.</p>"
            }
        },
        "keyPrefix": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Prefix of the S3 bucket reports are published to. "
}
}
},
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InternalError",
"httpResponseCode": 500
},
"smithy.api#documentation": " The server experienced an internal error. Try again. ",
"smithy.api#error": "server",
"smithy.api#httpError": 500
}
},
"com.amazonaws.licensemanager#SignedToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 4096
}
}
},
"com.amazonaws.licensemanager#StatusReasonMessage": {
"type": "string",
"traits":
{
"smithy.api#length": {
"min": 0,
"max": 400
},
"smithy.api#pattern": "^[\\s\\S]+$"
}
},
"com.amazonaws.licensemanager#String": {
"type": "string"
},

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    "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#Tag": {
        "type": "structure",
        "members": {
            "Key": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag key.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Tag value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#TagList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Tag"
        }
    },
    "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
```

```
            {
                "target":
 "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits":
 {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>One or more tags.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {},
```

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#TokenData": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. "
}
},
"TokenType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"ExpirationTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Token expiration time, in ISO8601-UTC
format. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller. "
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the roles included in the
token. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Token status. The possible values are
<code>AVAILABLE</code> and <code>DELETED</code>. "
}
}
},
"traits": {

"smithy.api#documentation": " Describes a token. "
}
},
"com.amazonaws.licensemanager#TokenList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#TokenData"
}
},
"com.amazonaws.licensemanager#TokenString": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 4096
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#TokenType": {
"type": "enum",
"members": {
"REFRESH_TOKEN": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REFRESH_TOKEN"
}
}
}
},
"com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException":
{
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The digital signature method is unsupported. Try your request

again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#UntagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UntagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Removes the specified tags from the specified license configuration. "
}
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",

```
            "traits": {
                "smithy.api#documentation": "<p>Keys identifying the tags to remove.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
    "type": "structure",
    "members": {},
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
    },
    "output": {

"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
```

```
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseConfigurationStatus": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
                "traits": {
                    "smithy.api#documentation": "<p>New status of the license configuration.</p>"
                }
            },
            "LicenseRules": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {

    "smithy.api#documentation": "<p>New license rule. The only rule that you can add after you create a license\n
    configuration is licenseAffinityToHost.</p>"
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>New number of licenses managed by the license
configuration.</p>"
                }
            },
            "LicenseCountHardLimit": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>New hard limit of the number of available licenses.</p>"
                }
            },
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>New name
 of the license configuration.</p>"
                }
            },
            "Description": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates a report generator. \n After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated. "
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to update. ",
"smithy.api#required": {}
}
},
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types are supported: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and

resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " The report context. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits":
{
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",

"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},

{
"target": "com.amazonaws.licensemanager#InvalidResourceStateException"
},
{
"target": "com.amazonaws.licensemanager#LicenseUsageException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Adds or removes the specified license configurations for the specified Amazon Web Services resource. \n You can update the license specifications of AMIs, instances, and hosts.\n You cannot update the license specifications for launch templates and CloudFormation templates, \n as they send license configurations to the operation that creates the resource. "
}
},

"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon Web Services resource. ",
"smithy.api#required": {}
}

```
            },
            "AddLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
                }
            },
            "RemoveLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation":
"<p>ARNs of the license configurations to remove.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
```

"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Updates License Manager settings for the current Region. "
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
"type": "structure",
"members": {
"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon S3 bucket where the License
Manager information is stored. "
}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Enables integration with Organizations for cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Activates cross-account discovery. "

}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {},
"traits": {

```
            "smithy.api#output": {}
          }
        },
        "com.amazonaws.licensemanager#UsageOperation": {
          "type": "string",
          "traits": {
            "smithy.api#length": {
              "min": 0,
              "max": 50
            }
          }
        },
        "com.amazonaws.licensemanager#ValidationException": {
          "type": "structure",
          "members": {
            "Message": {
              "target": "com.amazonaws.licensemanager#Message"
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",

       "smithy.api#error": "client",
            "smithy.api#httpError": 400
          }
        }
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version
 of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
```

```
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack,
options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if
```

```
 err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
```

1.4336 aws-sdk-go-v2 1.24.1

1.4336.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil,
 err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
```

```
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err !=
 nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
```

```
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
```

AWS SDK for Go

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```
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
     - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
       with:
         python-version: ${{ matrix.python-version }}
     # ScanCode
     - name: Self-configure scancode
       working-directory: ./scancode-toolkit
```

```
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string
```

```
 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
```

```
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return
 err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}
```

```
func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckInLicense",
 }
}
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
      "type": "integer"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
      "type": "long"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The type of name to filter by.</p>"
          }
        },
        "Values": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
          "traits": {
            "smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
          }
        },
        "Operator": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
           "traits": {
            "smithy.api#documentation": "<p>An operator for filtering results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>A filter object that is used to return more specific results from a describe
operation.\n      Filters can be used to match a set of resources by specific criteria.</p>"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
      "type": "list",
      "member": {
```

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
},
"output": {

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions service settings. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/GetServiceSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest":
{
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},
"LinuxSubscriptionsDiscoverySettings": {

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " Lists the settings defined for Linux subscriptions discovery. The settings include if\n Organizations integration has been enabled, and
which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays
the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
"type": "structure",
"members": {
"AmiId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The AMI ID used to launch the instance. "
}
},
"InstanceID": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The instance ID of the resource. "
}
},
"InstanceType": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " The instance type of the resource. "
}

},
"AccountID": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The account ID which owns the instance. "
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of the instance. "
}
},
"Region": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The Region the instance is running in. "
}
},
"UsageOperation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The usage operation of the instance. For more information, see For more information, see\n Usage\n operation values in the License Manager User Guide. "
}
},
"ProductCode": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
"traits": {
"smithy.api#documentation": " The product code for the instance. For more information, see Usage\n operation values in the License Manager User Guide . "
}
},
"LastUpdatedTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The time in which the last discovery updated the instance details. "
}
},
"SubscriptionName": {
"target": "smithy.api#String",

"traits": {
"smithy.api#documentation": " The name of the subscription being used by the instance. "
}
}
},
"traits": {
"smithy.api#documentation": " Details discovered information about a running instance using Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " An exception occurred with the service. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
"type": "service",
"version": "2018-05-10",
"operations": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
}
],

"traits": {
"aws.api#service": {

"sdkId": "License Manager Linux Subscriptions",
"arnNamespace": "license-manager-linux-subscriptions",
"cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
},
"aws.auth#sigv4": {
"name": "license-manager-linux-subscriptions"
},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",

"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"
]
},
"smithy.api#documentation": " With License Manager, you can discover and track your commercial Linux subscriptions on running\n Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager Linux Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,

"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}
},
"rules": [
{
"conditions": [
{
"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
]
}
],
"type": "tree",
"rules": [
{

"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
},
true
]
}
],

```
            "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
            "type": "error"
        },
        {
            "conditions": [],
            "type": "tree",
            "rules": [
                {

          "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseDualStack"
                            },
                            true
                        ]
                    }
                ],
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                "type": "error"
            },
            {
                "conditions": [],

  "endpoint": {
                    "url": {
                        "ref": "Endpoint"
                    },
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ]
    }
  ]
},
{
  "conditions": [],
  "type": "tree",
  "rules": [
    {
      "conditions": [
        {
          "fn": "isSet",
```

```
"argv": [
                    {
                        "ref": "Region"
                    }
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "aws.partition",
                        "argv": [
                            {
                                "ref": "Region"
                            }
                        ],

"assign": "PartitionResult"
                    }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    {
                                        "ref": "UseFIPS"
                                    },
                                    true
                                ]
                            },

                    {
                                "fn": "booleanEquals",
                                "argv": [
                                    {
                                        "ref": "UseDualStack"
                                    },
                                    true
                                ]
                            }
                        ],
                        "type": "tree",
                        "rules": [
```

{
"conditions": [
{

"fn": "booleanEquals",
"argv": [
true,
{
"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsFIPS"
]

}
]
},
{
"fn": "booleanEquals",
"argv": [
true,
{
"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},

"supportsDualStack"
]
}
]
}
],
"type": "tree",
"rules": [
{
"conditions": [],
"type": "tree",
"rules": [
{

"conditions": [],
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.{Region}.{PartitionResult#dualStackDnsSuffix}",

"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
}
]

},
{
"conditions": [],
"error": "FIPS and DualStack are enabled, but this partition does not support one or both",
"type": "error"
}
]
},
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{

"ref": "UseFIPS"
},
true
]
}
],
"type": "tree",
"rules": [
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
true,

{
"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsFIPS"
]

```
                    }
                ]
            }
        ],
        "type": "tree",

    "rules": [
            {
                "conditions": [],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [],
                        "endpoint": {
                            "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                            "properties": {},
                            "headers": {}

                        },
                        "type": "endpoint"
                    }
                ]
            }
        ]
    },
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseDualStack"
                    },
                    true
                ]
            }
        ],
        "type": "tree",
        "rules": [
```

```
                    {

                  "conditions": [
                        {
                          "fn": "booleanEquals",
                          "argv": [
                            true,
                            {
                              "fn": "getAttr",
                              "argv": [
                                {
                                  "ref": "PartitionResult"
                                },
                                "supportsDualStack"
                               ]
                            }
                          ]
                        }
                      ],
                      "type": "tree",
                      "rules": [
                        {
                          "conditions": [],
                          "type": "tree",
                          "rules": [
                            {
                              "conditions": [],

                         "endpoint": {
                                "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                "properties": {},
                                "headers": {}
                              },
                              "type": "endpoint"
                            }
                          ]
                        }
                      ]
                    },

        {
                      "conditions": [],
                      "error": "DualStack is enabled but this partition does not support DualStack",
                      "type": "error"
                    }
                  ]
                },
```

```
                    {
                      "conditions": [],
                      "type": "tree",
                      "rules": [
                        {
                          "conditions": [],
                          "endpoint": {
                            "url":
"https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                            "properties": {},
                            "headers": {}
                          },
                          "type": "endpoint"
                        }
                      ]
                    }
                  ]
                }
              ]
            },
            {
              "conditions": [],
              "error": "Invalid Configuration: Missing Region",
              "type": "error"
            }
          ]
        }
      ]
    },
    "smithy.rules#endpointTests": {
      "testCases": [
        {
          "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
            }
          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": true,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
```

"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {

"url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true

```
        }
      },
      {
        "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
          }
        },
        "params": {
          "Region": "cn-north-1",
          "UseFIPS": true,
           "UseDualStack": false
        }
      },
      {
        "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
          }
        },
        "params": {
          "Region": "cn-north-1",
          "UseFIPS": false,
          "UseDualStack": true
        }
      },
      {
        "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
        "expect": {
          "endpoint":
{
            "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
          }
        },
        "params": {
          "Region": "cn-north-1",
          "UseFIPS": false,
          "UseDualStack": false
        }
      },
      {
        "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
          }
```

```
      },
      "params": {
        "Region": "us-gov-east-1",
        "UseFIPS": true,
         "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-gov-east-1",
        "UseFIPS": true,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "endpoint":
{
          "url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
        }
      },
      "params": {
        "Region": "us-gov-east-1",
        "UseFIPS": false,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-gov-east-1",
        "UseFIPS": false,
         "UseDualStack": false
      }
    },
    {
```

"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},

{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {

"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",

"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",

"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,

"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips disabled and dualstack enabled",

"expect": {
"error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true,
"Endpoint": "https://example.com"
}
},
{
"documentation": "Missing region",
"expect": {
"error": "Invalid Configuration: Missing Region"
}

}
],
"version": "1.0"
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "Enabled",
"value": "Enabled",
"documentation": "Enabled LinuxSubscriptionsDiscovery"
},
{
"name": "Disabled",
"value": "Disabled",
"documentation": "Disabled LinuxSubscriptionsDiscovery"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
"type": "structure",
"members": {
"SourceRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Regions in which to discover data for Linux subscriptions. ",
"smithy.api#required": {}

```
                }
            },
            "OrganizationIntegration": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
                "traits": {
                    "smithy.api#documentation": "<p>Details if you have enabled resource discovery across your
accounts in Organizations.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Lists the settings defined for discovering Linux subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
        "type":
 "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the running Amazon EC2 instances that were discovered with
commercial Linux\n      subscriptions.</p>",
            "smithy.api#http": {

       "code": 200,
                "method": "POST",
                "uri": "/subscription/ListLinuxSubscriptionInstances"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
```

```
                "pageSize": "MaxResults",
                "items": "Instances"
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by
 the name of\n        <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n
match, or don't match a certain Amazon Machine Image (AMI) ID.</p>\n        <p>The valid names for this filter
are:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>AmiID</code>\n                </p>\n
</li>\n            <li>\n                <p>\n                    <code>InstanceID</code>\n                </p>\n            </li>\n
<li>\n                <p>\n                    <code>AccountID</code>\n                </p>\n            </li>\n            <li>\n
<p>\n                    <code>Status</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>Region</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>UsageOperation</code>\n                </p>\n            </li>\n            <li>\n
    <p>\n                    <code>ProductCode</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
     <code>InstanceType</code>\n                </p>\n            </li>\n        </ul>\n        <p>The valid Operators for this
filter are:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>contains</code>\n                </p>\n
</li>\n            <li>\n                <p>\n                    <code>equals</code>\n                </p>\n            </li>\n            <li>\n
        <p>\n                    <code>Notequal</code>\n                </p>\n            </li>\n        </ul>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"

        }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>",
                    "smithy.api#length": {
                        "min": 1,
                        "max": 16384
                    }
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
```

parameters in request increases."
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
"type": "structure",
"members": {
"Instances": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
"traits": {
"smithy.api#documentation":
" An array that contains instance objects. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions that have been discovered. If you have linked your\n organization, the returned results will include data aggregated across your accounts in\n Organizations. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptions"

```
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "Subscriptions"
            }

        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by the name of\n
 <code>Subscription</code> with an optional operator to see subscriptions that match,\n      partially match, or don't
match a certain subscription's name.</p>\n         <p>The valid names for this filter are:</p>\n         <ul>\n
<li>\n              <p>\n                  <code>Subscription</code>\n              </p>\n           </li>\n         </ul>\n
<p>The valid Operators for this filter are:</p>\n
        <ul>\n           <li>\n              <p>\n                  <code>contains</code>\n              </p>\n           </li>\n
<li>\n              <p>\n                  <code>equals</code>\n              </p>\n           </li>\n           <li>\n              <p>\n
             <code>Notequal</code>\n              </p>\n           </li>\n         </ul>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>",
                    "smithy.api#length": {

                        "min": 1,
                        "max": 16384
                    }
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
```

parameters in request increases."
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
        "type": "structure",
        "members": {
            "Subscriptions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
                "traits": {
                    "smithy.api#documentation": " An array that contains subscription objects. "
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": " Token for
the next set of results. "
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "name": "EQUAL",
                    "value": "Equal",
                    "documentation": "Equal operator"
                },
                {
                    "name": "NOT_EQUAL",
                    "value": "NotEqual",
                    "documentation": "Not equal operator"
                },
                {
                    "name": "CONTAINS",
                    "value": "Contains",
                    "documentation": "Contains operator"
                }
            ],
            "smithy.api#length": {
                "min": 1,
                "max": 20
            }
        }
    },

"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "Enabled",
"value": "Enabled",
"documentation": "Enabled OrganizationIntegration"
},
{
"name": "Disabled",
"value": "Disabled",
"documentation": "Disabled OrganizationIntegration"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
"type": "list",
"member": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
"type": "string",
"traits": {
"smithy.api#enum": [

{
"name": "InProgress",
"value": "InProgress",
"documentation": "InProgress status"
},
{
"name": "Completed",
"value": "Completed",
"documentation": "Completed status"
},
{
"name": "Successful",
"value": "Successful",
"documentation": "Successful status"
},
{
"name": "Failed",
"value": "Failed",
"documentation": "Failed status"
}

```
            ]
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
          "type": "list",
          "member": {
            "target": "smithy.api#String",
            "traits":
{
              "smithy.api#length": {
                "min": 1,
                "max": 100
              }
            }
          },
          "traits": {
            "smithy.api#length": {
              "min": 1,
              "max": 100
            },
            "smithy.api#uniqueItems": {}
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
          "type": "map",
          "key": {
            "target": "smithy.api#String"
          },
          "value": {
            "target": "smithy.api#String"
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
          "type": "structure",
          "members": {
            "Name": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The name of the subscription.</p>"

          }
            },
            "Type": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The type of subscription. The type can be subscription-included
with Amazon EC2, Bring Your Own\n      Subscription model (BYOS), or from the Amazon Web Services
Marketplace. Certain subscriptions may use licensing from the\n      Amazon Web Services Marketplace as well as
```

OS licensing from Amazon EC2 or BYOS. "
}
},
"InstanceCount": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
"traits": {
"smithy.api#documentation": " The total amount of running instances using this subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " An object which details a discovered Linux subscription. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request was denied due to request throttling. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
},

"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"

```
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates the service settings for Linux subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/UpdateServiceSettings"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest":
{
        "type": "structure",
        "members": {
            "LinuxSubscriptionsDiscovery": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
                "traits": {
                    "smithy.api#documentation": "<p>Describes if the discovery of Linux subscriptions is enabled.</p>",
                    "smithy.api#required": {}
                }
            },
            "LinuxSubscriptionsDiscoverySettings": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
                "traits": {
                    "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The
settings include if Organizations\n      integration has been enabled, and which Regions data will be aggregated
from.</p>",

  "smithy.api#required": {}
                }
            },
            "AllowUpdate": {
                "target": "smithy.api#Boolean",
                "traits": {
                    "smithy.api#documentation": "<p>Describes if updates are allowed to the service settings for Linux
subscriptions. If you\n      allow updates, you can aggregate Linux subscription data in more than one home
Region.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
        "type": "structure",
```

"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},

"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The provided input is not valid. Try your request again. ",

```
            "smithy.api#error": "client"
          }
        }
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - Beneficiary
 //   - ProductSKU
 //   - Fingerprint
 //
   - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
```

```
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if
 err := addProtocolFinalizerMiddlewares(stack, options, "ListLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
```

```
 return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
     ServiceID,
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 //
 This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack,
 options, "DisassociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
```

```
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
```

```
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}
```

```
type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource
 Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
```

```
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil
{
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack);
err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier
 that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}
```

```
type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
```

```
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return
err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide
 to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer
```

```
 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity
 *types.DatetimeRange

 // Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
```

```
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
 return fmt.Errorf("add
protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
```

```
 err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName:
 "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return
 err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack);
 err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "GetLicense",
 }
}
```

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  * Neither the name of Google Inc. nor the names of its
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 OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
   - ProductSKU
 //   - Status
 //   - Fingerprint
 //   - IssuerName
 //   - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
```

```
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack);
err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
 }
}
```

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```
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
        "smithy.api#error": "client"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
      "type": "structure",
      "members": {
        "DirectoryId": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation":
"<p>Details about an Active Directory identity provider.</p>"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
```

"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Associates the user to an EC2 instance to utilize user-based subscriptions. \n <note>\n Your estimated bill for charges on the number of users and related costs will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more information, see Viewing your\n monthly charges in the Amazon Web Services Billing User Guide. \n </note>",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/AssociateUser"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the

EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " The identity provider of the user. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
"type": "integer"
},
"com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request couldn't be completed because it conflicted with the current state of the\n resource. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider":

```
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deregisters the identity provider from providing user-based
subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/DeregisterIdentityProvider"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
```

```
            "traits": {
              "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "Product": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
        "type": "structure",
        "members": {
          "IdentityProviderSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
            "traits": {
              "smithy.api#documentation":
"<p>Metadata that describes the results of an identity provider operation.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
          },
```

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Disassociates the user from an EC2 instance providing user-based
subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/DisassociateUser"
            },
            "smithy.api#idempotent": {}
        }

    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation":
 "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
```

"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
}
},

"com.amazonaws.licensemanagerusersubscriptions#Filter": {
"type": "structure",
"members": {
"Attribute": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of an attribute to use as a filter. "
}
},
"Operation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of search (For example, eq, geq, leq) "
}
},
"Value": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Value of the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter name and value pair that is used
to return more specific results from a describe\n operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n attributes, or IDs. "
}

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#FilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
        "type": "union",
        "members": {
            "ActiveDirectoryIdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that details an Active Directory identity provider.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
 "<p>Details about an identity provider.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Settings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
                "traits": {
                    "smithy.api#documentation": "<p>An object that details the registered identity providers product
related configuration\n      settings such as the subnets to provision VPC endpoints.</p>",
                    "smithy.api#required":
 {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
```

"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of an identity provider. ",
"smithy.api#required": {}
}
},
"FailureMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The failure message associated with an identity provider. "
}
}
},
"traits": {
"smithy.api#documentation":
" Describes an identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
"type": "structure",
"members": {
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based
subscriptions. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status
of an EC2 instance resource. ",
"smithy.api#required": {}
}
},
"Products": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
"traits": {
"smithy.api#documentation": " A list of provided user-based subscription products. ",

"smithy.api#required": {}
}
},
"LastStatusCheckDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date of the last status check. "
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for an EC2 instance. "
}

}
},
"traits": {
"smithy.api#documentation": " Describes an EC2 instance providing user-based subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits":
{
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",

"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a user associated with an EC2 instance. ",
"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for users of an EC2 instance. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"AssociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was associated with an EC2 instance. "
}
},
"DisassociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was disassociated from an EC2 instance. "
}
}

},
"traits": {
"smithy.api#documentation": " Describes users of an EC2 instance providing user-based subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
}

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
            "smithy.api#error": "server"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
        "type": "service",

     "version": "2018-05-10",
        "operations": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

},
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
```

```
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
            }
        ],
        "traits": {
            "aws.api#service": {
                "sdkId": "License Manager User Subscriptions",
                "arnNamespace": "license-manager-user-subscriptions",
                "cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
            },
            "aws.auth#sigv4": {
                "name": "license-manager-user-subscriptions"
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            "aws.protocols#restJson1": {},
            "smithy.api#cors": {
                "additionalAllowedHeaders": [
                    "*",
                    "content-type",
                    "x-amz-content-sha256",
                    "x-amz-user-agent",
                    "x-amzn-platform-id",
                    "x-amzn-trace-id",
                    "content-length",
                    "x-api-key",
                    "authorization",
                    "x-amz-date",
                    "x-amz-security-token",
                    "Access-Control-Allow-Headers",
                    "Access-Control-Allow-Methods",
                    "Access-Control-Allow-Origin"
                ],
                "additionalExposedHeaders": [
                    "x-amzn-errortype",
                    "x-amzn-requestid",
                    "x-amzn-trace-id"

 ]
            },
            "smithy.api#documentation": "<p>With License Manager, you can create user-based subscriptions to
utilize licensed software with\n      a per user subscription fee on Amazon EC2 instances.</p>",
            "smithy.api#title": "AWS License Manager User Subscriptions",
            "smithy.rules#endpointRuleSet": {
                "version": "1.0",
                "parameters": {
                    "Region": {
                        "builtIn": "AWS::Region",
                        "required": false,
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"documentation": "The AWS region used to dispatch the request.",
"type": "String"
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"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack
endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the
configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
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"rules": [
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"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
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"rules": [
{
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{
"fn": "booleanEquals",
"argv": [
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"ref": "UseFIPS"

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                    },

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            "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
            "type": "error"
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                    "fn": "booleanEquals",
                    "argv": [
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"error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
            "type": "error"
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            "conditions": [],
            "endpoint": {
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                    "ref": "Endpoint"
                },
                "properties": {},
                "headers": {}
            },
            "type": "endpoint"
        }
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},
{
    "conditions": [
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            "fn": "isSet",
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{
                    "ref": "Region"
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            }
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                        "argv": [
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                                "ref": "Region"
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                        ],
                        "assign": "PartitionResult"
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                "type": "tree",

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                                        "ref": "UseFIPS"
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                                    true
                                ]
                            },
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    {
                                        "ref": "UseDualStack"

                                    },
                                    true
                                ]
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"fn": "getAttr",

"argv": [
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"ref": "PartitionResult"
},
"supportsFIPS"
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"argv": [
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"fn": "getAttr",
"argv": [
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"ref": "PartitionResult"
},
"supportsDualStack"
]
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]
}
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"type": "tree",
"rules": [
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"conditions": [],
"endpoint": {
"url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
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"type": "endpoint"
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]
},
{
"conditions": [],
"error": "FIPS and DualStack are enabled, but this partition does not support one or

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"type": "error"
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"conditions": [
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"fn": "booleanEquals",
"argv": [
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"ref": "UseFIPS"
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"type": "tree",

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"argv": [
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"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsFIPS"

]
}
]
}
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"headers": {}

```
},
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            "type": "error"
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        "conditions": [
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            "fn": "booleanEquals",
            "argv": [
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                "ref": "UseDualStack"
              },
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            ]
          }
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        "rules": [
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                "argv": [
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                      "argv": [
                        {
                          "ref": "PartitionResult"
                        },
                        "supportsDualStack"
                      ]
                  }
                ]
              }
            ],
            "type": "tree",
            "rules": [
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"url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
},
{
"conditions": [],
"error": "DualStack is enabled but this partition does
not support DualStack",
"type": "error"
}
]
},
{
"conditions": [],
"endpoint": {
"url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
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"conditions":
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"error": "Invalid Configuration: Missing Region",
"type": "error"
}
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"smithy.rules#endpointTests": {
"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {

"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation":
"For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
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"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
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"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
}
},

"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
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"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,

"UseDualStack": false
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{
"documentation": "For region cn-north-1 with
FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
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{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},

"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
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"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1

with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
}
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"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
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"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
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"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
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"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
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}
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"params": {
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"UseFIPS": true,
"UseDualStack": false
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"documentation": "For region us-gov-east-1
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"url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
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"params": {

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"UseFIPS": false,
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"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
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}
},

"params": {
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"UseFIPS": false,
"UseDualStack": false
}
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"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
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{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect":
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"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
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"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"

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                },
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                    "UseFIPS": false,
                    "UseDualStack":
true
                }
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                "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
                "expect": {
                    "endpoint": {
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                    }
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                    "Region": "us-iso-east-1",
                    "UseFIPS": false,
                    "UseDualStack": false
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                "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
                "expect": {
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this partition does not support one or both"
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                    "UseDualStack": true
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            {
                "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
                "expect": {
                    "endpoint": {
                        "url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
                    }
                },
                "params": {
                    "Region": "us-isob-east-1",
                    "UseFIPS": true,
                    "UseDualStack": false
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"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
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"params": {
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"UseDualStack": true
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"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
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}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
}
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"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {
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"url": "https://example.com"
}
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"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
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"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
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"params": {
"UseFIPS": false,
"UseDualStack": false,

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                "Endpoint": "https://example.com"
            }
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            "documentation": "For custom endpoint with fips enabled and dualstack disabled",
            "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
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            "params": {
                "Region": "us-east-1",
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                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
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            "documentation": "For custom endpoint with fips disabled and dualstack enabled",
            "expect": {
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "Missing region",
            "expect": {
                 "error": "Invalid Configuration: Missing Region"
            }
        }
    ],
    "version": "1.0"
  }
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
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  "output": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
  },
  "errors": [
    {
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"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
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{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the identity providers for user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/ListIdentityProviders"
},
"smithy.api#paginated":
{
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "IdentityProviderSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "smithy.api#String",

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            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
{
    "type": "structure",
    "members": {
        "IdentityProviderSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
                "smithy.api#required": {}
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
     },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
```

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            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/instance/ListInstances"
            },
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
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"type":
"structure",
"members": {
"InstanceSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list instances operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],

"traits": {
"smithy.api#documentation": " Lists the user-based subscription products available from an identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/ListProductSubscriptions"
},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "ProductUserSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
"type": "structure",
"members": {
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {

"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
"type": "structure",
"members": {
"ProductUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list product subscriptions operation. "
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"

```
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists user associations for an identity provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListUserAssociations"
            },
            "smithy.api#paginated":
{
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity
provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
```

```
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for
 the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
        "type": "structure",
        "members": {
            "InstanceUserSummaries": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the list user association operation.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
        "type": "structure",
        "members": {

        "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                    "smithy.api#required": {}
                }
            },
```

"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}

},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a product for a user. ",
"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for a product for a user. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"SubscriptionStartDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The
start date of a subscription. "
}
},
"SubscriptionEndDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The end date of a subscription. "
}
}
},

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    "traits": {
        "smithy.api#documentation": "<p>The summary of the user-based subscription products for a user.</p>"
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
    }
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
     },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
         },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Registers an identity provider for user-based subscriptions.</p>",
        "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/identity-provider/RegisterIdentityProvider"
        },
```

"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings such as the\n subnets to provision VPC endpoints. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
"type": "structure",
"members": {
"message": {

```
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The resource couldn't be found.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 404
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
        "type": "string",

    "traits": {
          "smithy.api#length": {
            "min": 5,
            "max": 200
          },
          "smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The request failed because a service quota is exceeded.</p>",
          "smithy.api#error": "client"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#Settings": {
        "type": "structure",
        "members": {
          "Subnets": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
            "traits": {
              "smithy.api#documentation":
  "<p>The subnets defined for the registered identity provider.</p>",
              "smithy.api#length": {
                "min": 1
              },
              "smithy.api#required": {}
            }
          },
          "SecurityGroupId": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
```

"traits": {
"smithy.api#documentation": " A security group ID that allows inbound TCP port 1688 communication between resources in\n your VPC and the VPC endpoint for activation servers. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings such as the\n subnets to provision VPC endpoints, and the security group ID that is associated with the VPC\n endpoints. The security group should permit inbound TCP port 1688 communication from resources\n in the VPC. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Starts a product subscription for a user with the specified identity provider. \n <note>\n Your estimated bill for charges on the number of users and related costs

will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing.
For more information, see Viewing your\n monthly charges in the Amazon Web Services Billing User Guide. \n </note>",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/StartProductSubscription"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider of the user. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
"type": "structure",
"members": {
"ProductUserSummary": {

"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the start product subscription operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Stops a product subscription for a user with the specified identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/StopProductSubscription"

```
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required":
{}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
        "type": "structure",
        "members": {
            "ProductUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
                "traits": {
                    "smithy.api#documentation":
"<p>Metadata that describes the start product subscription operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
```

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#StringList": {
        "type": "list",
        "member": {
            "target": "smithy.api#String"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Subnet": {
        "type": "string",
        "traits": {
            "smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Subnets": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
            "message": {

             "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request was denied because of request throttling. Retry the
request.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates additional product configuration settings for the registered
identity\n      provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/UpdateIdentityProviderSettings"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "UpdateSettings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
                "traits": {
                    "smithy.api#documentation": "<p>Updates the registered identity providers product related
configuration settings. You can\n      update any combination of settings in a single operation such as the:</p>\n
<ul>\n            <li>\n                <p>Subnets which you want to add to provision VPC endpoints.</p>\n            </li>\n
            <li>\n                <p>Subnets which you want to remove the VPC endpoints from.</p>\n            </li>\n
<li>\n                <p>Security group ID which permits traffic to the VPC endpoints.</p>\n            </li>\n        </ul>",
                    "smithy.api#required": {}
                }
            }
        }
    },
```

"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
"type": "structure",
"members": {
"AddSubnets": {

"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets in which License Manager will create a VPC endpoint for products that\n require connectivity to activation servers. ",
"smithy.api#required": {}
}
},
"RemoveSubnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets to remove. ",
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID that allows inbound TCP port 1688 communication between resources in\n your VPC and the VPC endpoints for activation servers. "
}
}
},
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings such as\n the subnets to provision VPC endpoints. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {

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                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A parameter is not valid.</p>",
            "smithy.api#error": "client"
        }
    }
  }
}
{
  "smithy": "2.0",
  "metadata": {
    "suppressions": [
        {
            "id": "HttpMethodSemantics",
            "namespace": "*"
        },
        {
            "id": "HttpResponseCodeSemantics",
            "namespace": "*"
        },
        {
            "id": "PaginatedTrait",
            "namespace": "*"
        },
        {
            "id": "HttpHeaderTrait",
            "namespace": "*"
        },
        {
            "id": "HttpUriConflict",
            "namespace": "*"
        },
        {
            "id": "Service",
            "namespace": "*"
        }
    ]
  },
  "shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
        "type": "service",
        "version": "2018-08-01",
        "operations": [
            {
                "target": "com.amazonaws.licensemanager#AcceptGrant"
            },
```

{
"target": "com.amazonaws.licensemanager#CheckInLicense"
},
{
"target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
},
{
"target": "com.amazonaws.licensemanager#CheckoutLicense"
},
{
"target": "com.amazonaws.licensemanager#CreateGrant"
},
{
"target": "com.amazonaws.licensemanager#CreateGrantVersion"
},
{
"target": "com.amazonaws.licensemanager#CreateLicense"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseVersion"
},
{
"target": "com.amazonaws.licensemanager#CreateToken"
},
{
"target": "com.amazonaws.licensemanager#DeleteGrant"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicense"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#DeleteToken"

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    },
    {
      "target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

  },
    {
      "target": "com.amazonaws.licensemanager#GetAccessToken"
    },
    {
      "target": "com.amazonaws.licensemanager#GetGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseUsage"
    },
    {
      "target": "com.amazonaws.licensemanager#GetServiceSettings"
    },
    {
      "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#ListDistributedGrants"
    },
    {
      "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
    },
    {
      "target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
    },
    {
      "target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
    },
    {
      "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
    },
    {
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"target": "com.amazonaws.licensemanager#ListLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

"target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{
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"cloudFormationName": "LicenseManager",
"cloudTrailEventSource": "licensemanager.amazonaws.com",
"endpointPrefix": "license-manager"
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"aws.auth#sigv4": {
"name": "license-manager"
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"aws.protocols#awsJson1_1": {},
"smithy.api#documentation": " License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers. ",
"smithy.api#title": "AWS License Manager",
"smithy.api#xmlNamespace": {
"uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
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"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
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"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
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"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
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"type": "Boolean"
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"required": false,
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"type": "String"
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"supportsDualStack"

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                "type": "error"
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                "UseDualStack": false
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                "UseDualStack": false
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"params": {
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            "UseFIPS": false,
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            }
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but this partition does not support DualStack"
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            "UseDualStack": true
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                }
            },
            {
                "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
                "expect": {
                    "endpoint": {
                        "url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
                    }
                },

        "params": {
                    "Region": "us-isob-east-1",
                    "UseFIPS": true,
                    "UseDualStack": false
                }
            },
            {
                "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
                "expect": {
                    "error": "DualStack is enabled but this partition does not support DualStack"
                },
                "params": {
                    "Region": "us-isob-east-1",
                    "UseFIPS": false,
                    "UseDualStack": true
                }
            },
            {
                "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

    "expect": {
                    "endpoint": {
                        "url": "https://example.com"
                    }
                },
                "params": {
                    "Region": "us-east-1",
                    "UseFIPS": false,
                    "UseDualStack": false,
                    "Endpoint": "https://example.com"
                }
            },
            {
                "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",
                "expect": {
                    "endpoint": {
                        "url": "https://example.com"
```

```
                }
            },
            "params": {
                "UseFIPS": false,

        "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips enabled and dualstack disabled",
            "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips disabled and dualstack enabled",
            "expect": {
                "error":
"Invalid Configuration: Dualstack and custom endpoint are not supported"
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "Missing region",
            "expect": {
                "error": "Invalid Configuration: Missing Region"
            }
        }
    ],
    "version": "1.0"
  }
 }
},
"com.amazonaws.licensemanager#AcceptGrant": {
  "type": "operation",
  "input": {
```

"target": "com.amazonaws.licensemanager#AcceptGrantRequest"

},
"output": {
"target": "com.amazonaws.licensemanager#AcceptGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"

}
],
"traits": {
"smithy.api#documentation": " Accepts the specified grant. "
}
},
"com.amazonaws.licensemanager#AcceptGrantRequest": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}

```
    },
    "com.amazonaws.licensemanager#AcceptGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant
ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#AccessDeniedException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {

  "code": "ServiceAccessDenied",
                "httpResponseCode": 401
            },
            "smithy.api#documentation": "<p>Access to resource denied.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 401
        }
    },
    "com.amazonaws.licensemanager#ActivationOverrideBehavior": {
        "type": "enum",
```

"members": {
"DISTRIBUTED_GRANTS_ONLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
}
},
"ALL_GRANTS_PERMITTED_BY_ISSUER": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
}
}
}
},
"com.amazonaws.licensemanager#AllowedOperation": {

"type": "enum",
"members": {
"CREATE_GRANT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CreateGrant"
}
},
"CHECKOUT_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckoutLicense"
}
},
"CHECKOUT_BORROW_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckoutBorrowLicense"
}
},
"CHECK_IN_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckInLicense"
}
},
"EXTEND_CONSUMPTION_LICENSE":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ExtendConsumptionLicense"

```
            }
        },
        "LIST_PURCHASED_LICENSES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "ListPurchasedLicenses"
            }
        },
        "CREATE_TOKEN": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "CreateToken"
            }
        }
    }
},
"com.amazonaws.licensemanager#AllowedOperationList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#AllowedOperation"
    },
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max":
7
        }
    }
},
"com.amazonaws.licensemanager#Arn": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 2048
        },
        "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-
z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
    }
},
"com.amazonaws.licensemanager#ArnList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Arn"
    }
},
"com.amazonaws.licensemanager#AuthorizationException": {
    "type": "structure",
```

"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError":
{
"code": "AuthorizationFailure",
"httpResponseCode": 403
},
"smithy.api#documentation": " The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n policy associated with this account. ",
"smithy.api#error": "client",
"smithy.api#httpError": 403
}
},
"com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
"type": "structure",
"members": {
"LastRunTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time that automated discovery last ran. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes automated discovery. "
}
},

"com.amazonaws.licensemanager#Boolean": {
"type": "boolean",
"traits": {
"smithy.api#default": false
}
},
"com.amazonaws.licensemanager#BorrowConfiguration": {
"type": "structure",
"members": {
"AllowEarlyCheckIn": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether early check-ins are allowed. ",
"smithy.api#required": {}
}
},

"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the borrow configuration, in minutes. ",
"smithy.api#required": {}
}
}

},
"traits": {
"smithy.api#documentation": " Details about a borrow configuration. "
}
},
"com.amazonaws.licensemanager#BoxBoolean": {
"type": "boolean"
},
"com.amazonaws.licensemanager#BoxInteger": {
"type": "integer"
},
"com.amazonaws.licensemanager#BoxLong": {
"type": "long"
},
"com.amazonaws.licensemanager#CheckInLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"

},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{

"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks in the specified license. Check in a license when it is no longer in use. "
}
},
"com.amazonaws.licensemanager#CheckInLicenseRequest": {
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CheckInLicenseResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutBorrowLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"

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        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members":
```

{
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The license must use the borrow consumption configuration. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. Partial checkouts are not supported. ",
"smithy.api#required": {}
}
},
"DigitalSignatureMethod": {
"target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
"traits": {
"smithy.api#documentation": " Digital signature method. The possible value is JSON Web Signature (JWS) algorithm PS384.\n For more information, see RFC 7518 Digital Signature with RSASSA-PSS. ",
"smithy.api#required": {}
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}

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        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>"
                }
            },
            "EntitlementsAllowed":
{
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "SignedToken": {
                "target": "com.amazonaws.licensemanager#SignedToken",
                "traits": {
                    "smithy.api#documentation": "<p>Signed token.</p>"
                }
            },
            "IssuedAt": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license checkout
is issued.</p>"
                }
            },
            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
                }
```

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            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target":
"com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
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            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license.</p>\n        <note>\n            <p>If the
account that created the license is the same that is performing the check out, you must\n            specify the account
as the beneficiary.</p>\n        </note>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutLicenseRequest": {
        "type": "structure",
        "members": {
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product
 SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "CheckoutType": {
                "target": "com.amazonaws.licensemanager#CheckoutType",
                "traits": {
                    "smithy.api#documentation": "<p>Checkout type.</p>",
                    "smithy.api#required": {}
                }
            },
            "KeyFingerprint": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Key fingerprint identifying the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",

    "smithy.api#required": {}
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
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idempotency of the request. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
"type": "structure",
"members": {
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " Allowed license entitlements. "
}
},
"SignedToken": {
"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}

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            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "IssuedAt": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
                }
            },
            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and
time at which the license checkout expires.</p>"
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutType": {
        "type": "enum",
        "members": {
            "PROVISIONAL": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PROVISIONAL"
                }
            },
            "PERPETUAL": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PERPETUAL"
                }
             }
        }
    },
```

"com.amazonaws.licensemanager#ClientRequestToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 36
}
}
},
"com.amazonaws.licensemanager#ClientToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#ConflictException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ConflictException",
"httpResponseCode":
409
},
"smithy.api#documentation": " There was a conflict processing the request. Try your request again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 409
}
},
"com.amazonaws.licensemanager#ConsumedLicenseSummary": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Resource type of the resource consuming a license. "
}
},
"ConsumedLicenses": {

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            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
            }
        }
    },

"traits": {
        "smithy.api#documentation": "<p>Details about license consumption.</p>"
    }
  },
  "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
    }
  },
  "com.amazonaws.licensemanager#ConsumptionConfiguration": {
    "type": "structure",
    "members": {
        "RenewType": {
            "target": "com.amazonaws.licensemanager#RenewType",
            "traits": {
                "smithy.api#documentation": "<p>Renewal frequency.</p>"
            }
        },
        "ProvisionalConfiguration": {
            "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
             }
        },
        "BorrowConfiguration": {
            "target": "com.amazonaws.licensemanager#BorrowConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
    }
  },
  "com.amazonaws.licensemanager#CreateGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateGrantRequest"
    },
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"output": {
"target": "com.amazonaws.licensemanager#CreateGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target":
"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a grant for the specified license. A grant shares the use of license\n entitlements with a specific Amazon Web Services account, an organization, or an\n organizational unit (OU). For more
information, see Granted licenses in License Manager in the License Manager User Guide. "
}
},
"com.amazonaws.licensemanager#CreateGrantRequest": {
"type": "structure",
"members": {
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}

}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Principals": {
"target": "com.amazonaws.licensemanager#PrincipalArnList",
"traits": {
"smithy.api#documentation": " The grant principals. You can specify one of the following as an Amazon Resource Name\n (ARN): \n \n \n An Amazon Web Services account, which includes only the account specified. \n \n \n \n \n An organizational unit (OU), which includes all accounts in the OU. \n \n \n \n \n An organization, which will include all accounts across your organization. \n \n ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},

"com.amazonaws.licensemanager#CreateGrantResponse": {
"type": "structure",

```
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Grant version.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CreateGrantVersion":
{
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information, see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",

    "smithy.api#required": {}
                }
            },
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>"
                }
            },
            "AllowedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
```

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            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "StatusReason": {
            "target": "com.amazonaws.licensemanager#StatusReasonMessage",
            "traits": {
                "smithy.api#documentation": "<p>Grant status reason.</p>"
            }
        },
        "SourceVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Current version of the grant.</p>"
            }
        },
        "Options": {
            "target": "com.amazonaws.licensemanager#Options",
            "traits": {
                "smithy.api#documentation": "<p>The options specified for the grant.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>New version of the grant.</p>"
            }
        }
```

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        },
        "traits":
{
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
             },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
```

```
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
           },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Creates a license configuration.</p>\n        <p>A license configuration is an abstraction of a customer license agreement that can be\n        consumed and enforced by License Manager. Components include specifications for the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n        Dedicated Instance, Dedicated Host, or
 all of these), license affinity  to host (how long a \n        license must be associated with a host), and the number of licenses purchased and used.</p>"
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Name of the license configuration.</p>",
              "smithy.api#required": {}
            }
          },
          "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
          },
          "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
```

"traits": {
"smithy.api#documentation": " Dimension used to track the license inventory. ",
"smithy.api#required": {}
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows. \n \n \n \n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n <code>licenseAffinityToHost</code> |\n <code>maximumCores</code> | <code>minimumCores</code>\n \n \n \n \n <code>Instances</code> dimension: <code>allowedTenancy</code> | \n <code>maximumCores</code> | <code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n
\n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n <code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code>\n \n \n \n \n <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n <code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>. "
}
},

"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the license configuration. "

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                }
            },
            "DisassociateWhenNotFound": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
                }
            },
            "ProductInformationList": {
                "target": "com.amazonaws.licensemanager#ProductInformationList",
                "traits": {
                    "smithy.api#documentation": "<p>Product information.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse":
 {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
```

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a new license conversion task. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {

"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource you are converting the license type for. ",
"smithy.api#required": {}
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting from. \n\n For the structure of the source license, see Convert a license type using the CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
},
"DestinationLicenseContext":
{
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting to. For the structure of the destination license, see Convert a license type using the CLI in

the License Manager User Guide. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

"traits": {
"smithy.api#documentation": " The ID of the created license type conversion task. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},

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            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "ReportGeneratorName":
 {
                "target": "com.amazonaws.licensemanager#ReportGeneratorName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>",
                    "smithy.api#required": {}
                }
            },
            "Type": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports to generate. The following report types an be
generated:</p>\n        <ul>\n            <li>\n                <p>License configuration report - Reports the number and
details of consumed licenses for a license configuration.</p>\n            </li>\n            <li>\n                <p>Resource
report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n            </li>\n
</ul>",
                    "smithy.api#required": {}

        }
            },
            "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
                    "smithy.api#documentation": "<p>Defines the type of license configuration the report generator
tracks.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportFrequency": {
                "target": "com.amazonaws.licensemanager#ReportFrequency",
                "traits": {
```

"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the new report generator. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseRequest": {
"type": "structure",

"members": {
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. ",
"smithy.api#required": {}
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits": {
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region for the license. ",
"smithy.api#required": {}

}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",

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                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",
                    "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>",
                    "smithy.api#required": {}
                }
             },
            "ConsumptionConfiguration": {
                "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n          running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n          usage.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation":
 "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
```

```
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        },
        "Version": {
             "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
         },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
```

```
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target":
"com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product name.</p>",
                    "smithy.api#required": {}
                }
            },
            "Issuer": {
                "target": "com.amazonaws.licensemanager#Issuer",
                "traits":
{
                    "smithy.api#documentation": "<p>License issuer.</p>",
                    "smithy.api#required": {}
                }
            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Home Region of the license.</p>",
                    "smithy.api#required": {}
                }
            },
```

"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},

"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Current version of the license. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New version of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
}
},
"traits": {
"smithy.api#output":
{}
}
},
"com.amazonaws.licensemanager#CreateToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"

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            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },

        {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a long-lived token.</p>\n        <p>A refresh token is a JWT token used to get an access token. With an access token,\n        you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n        call License Manager to manage the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateTokenRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits":
 {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n        JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "RoleArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n        License Manager does not check whether the roles are in use.</p>"
                }
```

```
            },
            "ExpirationInDays": {
                "target": "com.amazonaws.licensemanager#Integer",
                "traits": {
                    "smithy.api#documentation": "<p>Token expiration, in days, counted from token creation. The
default is 365 days.</p>"
                }
            },
            "TokenProperties": {
                 "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Data specified by the caller to be included in the JWT token. The
data is mapped\n          to the amr claim of the JWT token.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Idempotency token, valid for 10 minutes.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateTokenResponse": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",

                 "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
            "TokenType": {
                "target": "com.amazonaws.licensemanager#TokenType",
                "traits": {
                    "smithy.api#documentation": "<p>Token type.</p>"
                }
            },
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
                }
```

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        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#DateTime": {
    "type": "timestamp"
},
"com.amazonaws.licensemanager#DatetimeRange": {
    "type": "structure",
    "members": {
        "Begin": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Start of the time range.</p>",
                "smithy.api#required": {}
            }
        },
        "End": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>End of the time range.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
    }
},
"com.amazonaws.licensemanager#DeleteGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
```

```
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes
the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the
grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteGrantResponse": {
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"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation":
" Grant version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license configuration. \n You cannot delete a license configuration that is in use. "
}

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    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
      "type": "structure",
      "members":
{
        "LicenseConfigurationArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>ID of the license configuration.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
       },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
```

```
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
             }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified report generator.</p>\n        <p>This action
deletes the report generator, which stops it from generating future reports.\n        The action cannot be reversed. It
has no effect on the previous reports from this generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to be
deleted.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {

 "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
```

```
            }
          },
          "SourceVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Current version of the license.</p>",
              "smithy.api#required":
{}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#DeleteLicenseResponse": {
        "type": "structure",
        "members": {
          "Status": {
            "target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
            "traits": {
              "smithy.api#documentation": "<p>License status.</p>"
            }
          },
          "DeletionDate": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Date when the license is deleted.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#DeleteToken": {
        "type": "operation",
         "input": {
          "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
```

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},

{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified token. Must be called in the license home Region. "
}
},
"com.amazonaws.licensemanager#DeleteTokenRequest": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteTokenResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}

}
},
"com.amazonaws.licensemanager#DigitalSignatureMethod": {

"type": "enum",
"members": {
"JWT_PS384": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "JWT_PS384"
}
}
}
},
"com.amazonaws.licensemanager#Entitlement": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement resource. Use only
if the unit is None. "
}
},
"MaxCount": {
"target": "com.amazonaws.licensemanager#Long",
"traits": {
"smithy.api#documentation": " Maximum entitlement count. Use if the unit is not None. "
}
},
"Overage": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether overages are allowed. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementUnit",
"traits": {
"smithy.api#documentation": " Entitlement unit. ",
"smithy.api#required": {}
}
},
"AllowCheckIn": {
"target":

"com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": " Indicates whether check-ins are allowed. "
            }
        }
    },
    "traits": {
        "smithy.api#documentation": " Describes a resource entitled for use with a license. "
    }
},
"com.amazonaws.licensemanager#EntitlementData": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": " Entitlement data name. ",
                "smithy.api#required": {}
            }
        },
        "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": " Entitlement
data value. "
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
                "smithy.api#documentation": " Entitlement data unit. ",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": " Data associated with an entitlement resource. "
    }
},
"com.amazonaws.licensemanager#EntitlementDataList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#EntitlementData"
    }
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
    "type": "enum",
    "members": {

"COUNT": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Count"
}
},
"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"SECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Seconds"
}
},
"MICROSECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Microseconds"
}
},
"MILLISECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Milliseconds"
}
},
"BYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes"
}
},
"KILOBYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes"
}
},
"MEGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes"
}

```
        },
        "GIGABYTES": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Gigabytes"
          }
        },
        "TERABYTES": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Terabytes"
          }
        },
        "BITS":
{
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Bits"
          }
        },
        "KILOBITS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Kilobits"
          }
        },
        "MEGABITS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Megabits"
          }
        },
        "GIGABITS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Gigabits"
          }
        },
        "TERABITS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Terabits"

    }
        },
        "PERCENT": {
          "target": "smithy.api#Unit",
          "traits": {
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```
        "smithy.api#enumValue": "Percent"
    }
},
"BYTES_PER_SECOND": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Bytes/Second"
    }
},
"KILOBYTES_PER_SECOND": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Kilobytes/Second"
    }
},
"MEGABYTES_PER_SECOND": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Megabytes/Second"
    }
},
"GIGABYTES_PER_SECOND": {
    "target": "smithy.api#Unit",
     "traits": {
        "smithy.api#enumValue": "Gigabytes/Second"
    }
},
"TERABYTES_PER_SECOND": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Terabytes/Second"
    }
},
"BITS_PER_SECOND": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Bits/Second"
    }
},
"KILOBITS_PER_SECOND": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Kilobits/Second"
    }
},
"MEGABITS_PER_SECOND": {
    "target": "smithy.api#Unit",
    "traits": {
```

"smithy.api#enumValue":
"Megabits/Second"
}
},
"GIGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits/Second"
}
},
"TERABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits/Second"
}
},
"COUNT_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count/Second"
}
}
}
},
"com.amazonaws.licensemanager#EntitlementList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Entitlement"
}
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The entitlement is not allowed. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#EntitlementUnit": {
"type": "enum",
"members": {
"COUNT": {

"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count"
}
},
"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"SECONDS":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Seconds"
}
},
"MICROSECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Microseconds"
}
},
"MILLISECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Milliseconds"
}
},
"BYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes"
}
},
"KILOBYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes"
}
},
"MEGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes"
}
},

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"GIGABYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Gigabytes"
    }
},
"TERABYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Terabytes"
    }
},
"BITS": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Bits"
    }
},
"KILOBITS": {
    "target": "smithy.api#Unit",
    "traits": {

     "smithy.api#enumValue": "Kilobits"
    }
},
"MEGABITS": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Megabits"
    }
},
"GIGABITS": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Gigabits"
    }
},
"TERABITS": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Terabits"
    }
},
"PERCENT": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Percent"
    }
```

```
        },
        "BYTES_PER_SECOND": {
          "target":
"smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Bytes/Second"
          }
        },
        "KILOBYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Kilobytes/Second"
          }
        },
        "MEGABYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Megabytes/Second"
          }
        },
        "GIGABYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Gigabytes/Second"
          }
        },
        "TERABYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {

"smithy.api#enumValue": "Terabytes/Second"
          }
        },
        "BITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Bits/Second"
          }
        },
        "KILOBITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Kilobits/Second"
          }
        },
        "MEGABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
```

"smithy.api#enumValue": "Megabits/Second"
}
},
"GIGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits/Second"
}
},

"TERABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits/Second"
}
},
"COUNT_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count/Second"
}
}
}
},
"com.amazonaws.licensemanager#EntitlementUsage": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement usage name. ",
"smithy.api#required": {}
}
},
"ConsumedValue": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Resource usage consumed. ",
"smithy.api#required": {}
}
},
"MaxCount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Maximum entitlement usage count. "
}
},

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            "Unit": {
                "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementUsageList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
```

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}

  }
            },
            "DryRun": {
                "target": "com.amazonaws.licensemanager#Boolean",
                "traits": {
                    "smithy.api#default": false,
                    "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>"
                }
            },

            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
                }
            }
        },
        "traits": {
```

"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#FailedDependencyException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
},
"ErrorCode": {
"target": "com.amazonaws.licensemanager#String"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FailedDependency",
"httpResponseCode": 424
},
"smithy.api#documentation":
" A dependency required to run the API is missing. ",
"smithy.api#error": "client",
"smithy.api#httpError": 424
}
},
"com.amazonaws.licensemanager#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#FilterName",
"traits": {
"smithy.api#documentation": " Name of the filter. Filter names are case-sensitive. "
}
},
"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " The value of the filter, which is case-sensitive. You can only
specify one value for the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter
name and value pair that is used to return more specific results from a\n describe operation. Filters can be used
to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {

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    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "FilterLimitExceeded",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#FilterList": {
    "type": "list",
     "member": {
        "target": "com.amazonaws.licensemanager#Filter"
    }
},
"com.amazonaws.licensemanager#FilterName": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#FilterValue",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#Filters": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Filter",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#GetAccessToken": {
    "type": "operation",
```

"input": {
"target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access
tokens\n are valid for one hour. "
}
},
"com.amazonaws.licensemanager#GetAccessTokenRequest": {
"type": "structure",
"members": {
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token, encoded as a JWT token. ",
"smithy.api#required": {}
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Token properties to validate against those present in the JWT token. "
}
}
},
"traits": {

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            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenResponse":
{
        "type": "structure",
        "members": {
            "AccessToken": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Temporary access token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"

        },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
```

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        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
                "smithy.api#documentation": "<p>Grant details.</p>"
            }
        }
    },
    "traits": {

"smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
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"target": "com.amazonaws.licensemanager#GetLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"

},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},

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            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license
configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits":
 {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            },
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>"
                 }
            },
            "Description": {
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"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension for which the licenses are counted. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",

"traits": {
"smithy.api#documentation": " Number of available licenses. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Sets the number of available licenses as a hard limit. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses assigned to resources. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License configuration status. "
}

},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the owner of the license configuration. "
}

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            },
            "ConsumedLicenseSummaryList": {
                "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>Summaries of the licenses consumed by resources.</p>"
                }
            },
            "ManagedResourceSummaryList": {
                "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>Summaries of the managed resources.</p>"
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                 "traits": {
                    "smithy.api#documentation": "<p>Tags for the license configuration.</p>"
                }
            },
            "ProductInformationList": {
                "target": "com.amazonaws.licensemanager#ProductInformationList",
                "traits": {
                    "smithy.api#documentation": "<p>Product information.</p>"
                }
            },
            "AutomatedDiscoveryInformation": {
                "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
                "traits": {
                    "smithy.api#documentation": "<p>Automated discovery information.</p>"
                }
            },
            "DisassociateWhenNotFound": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>When
true, disassociates a resource when software is uninstalled.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConversionTask": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
        },
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"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified license type conversion task. "
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task. "

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            }
        },
        "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the resources the license
conversion task is associated with.</p>"
            }
        },
        "SourceLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information
 about the license type converted from.</p>"
            }
        },
        "DestinationLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license type converted to.</p>"
            }
        },
        "StatusMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
            "traits": {
                "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
            }
        },

  "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
            }
        },
        "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
            }
        },
        "EndTime": {
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"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was completed. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {

"smithy.api#documentation": " Gets information about the specified report generator. "
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. ",
"smithy.api#required":
{}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"ReportGenerator": {
"target": "com.amazonaws.licensemanager#ReportGenerator",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic reports about your license configurations. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

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                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#GetLicenseResponse": {
    "type": "structure",
    "members": {
        "License": {
            "target": "com.amazonaws.licensemanager#License",
            "traits": {
                "smithy.api#documentation": "<p>License details.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},

"com.amazonaws.licensemanager#GetLicenseUsage": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
```

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the usage of the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseUsageRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseUsageResponse": {
"type": "structure",
"members": {
"LicenseUsage": {
"target":
"com.amazonaws.licensemanager#LicenseUsage",
"traits": {
"smithy.api#documentation": " License usage details. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets the License Manager settings for the current Region. "
}
},
"com.amazonaws.licensemanager#GetServiceSettingsRequest": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Regional S3 bucket path for storing reports, license trail event data, discovery data,\n and so on. "

}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " SNS topic configured to receive notifications from License Manager. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Indicates whether Organizations is integrated with License Manager for\n cross-account discovery. "
}
},

"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether cross-account discovery is enabled. "
}

},
"LicenseManagerResourceShareArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource share. The License Manager management account \n provides member accounts with access to this share. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#Grant": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"ParentArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Parent ARN. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. ",

"smithy.api#required": {}
}
},
"GranteePrincipalArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {

"smithy.api#documentation": " The grantee principal ARN. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. ",
"smithy.api#required": {}
}
},
"GrantedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Granted operations. ",
"smithy.api#required": {}
}
},
"Options": {
"target": "com.amazonaws.licensemanager#Options",
"traits": {

"smithy.api#documentation": " The options specified for the grant. "
}
}
},
"traits": {
"smithy.api#documentation":
" Describes a grant. "
}
},
"com.amazonaws.licensemanager#GrantList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Grant"
}
},
"com.amazonaws.licensemanager#GrantStatus": {
"type": "enum",
"members": {
"PENDING_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_WORKFLOW"
}
},
"PENDING_ACCEPT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_ACCEPT"
}
},
"REJECTED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REJECTED"

}
},
"ACTIVE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ACTIVE"
}
},
"FAILED_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "FAILED_WORKFLOW"
}

```
            },
            "DELETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DELETED"
                }
            },
            "PENDING_DELETE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_DELETE"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                "traits":
{
                    "smithy.api#enumValue": "DISABLED"
                }
            },
            "WORKFLOW_COMPLETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "WORKFLOW_COMPLETED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GrantedLicense": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>"
                }

  },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product name.</p>"
```

```
            }
        },
        "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product SKU.</p>"
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>Granted license issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the granted license.</p>"

         }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>Granted license status.</p>"
            }
        },
        "Validity": {
            "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {
                "smithy.api#documentation": "<p>Date and time range during which the granted license is valid, in
ISO8601-UTC format.</p>"
            }
        },
        "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Granted license beneficiary.</p>"
            }
        },
        "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
             "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>"
            }
        },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
```

"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Granted license metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Creation time of the granted license. "

}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Version of the granted license. "
}
},
"ReceivedMetadata": {
"target": "com.amazonaws.licensemanager#ReceivedMetadata",
"traits": {
"smithy.api#documentation": " Granted license received metadata. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a license that is granted to a grantee. "
}
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#GrantedLicense"
}
},
"com.amazonaws.licensemanager#ISO8601DateTime":
{
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},

"smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
}
},
"com.amazonaws.licensemanager#Integer": {
"type": "integer"
},
"com.amazonaws.licensemanager#InvalidParameterValueException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidParameterValueProvided",
"httpResponseCode": 400
},
"smithy.api#documentation":
" One or more parameter values are not valid. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#InvalidResourceStateException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidResourceState",
"httpResponseCode": 400
},
"smithy.api#documentation": " License Manager cannot allocate a license to a resource because of its state. \n For example, you cannot allocate a license to an instance in the process of shutting\n down. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},

"com.amazonaws.licensemanager#InventoryFilter": {
"type": "structure",
"members": {

```
        "Name": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Name of the filter.</p>",
            "smithy.api#required": {}
          }
        },
        "Condition": {
          "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
          "traits": {
            "smithy.api#documentation": "<p>Condition of the filter.</p>",
            "smithy.api#required": {}
          }
        },
        "Value": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Value of the filter.</p>"
          }
        }

    },
      "traits": {
        "smithy.api#documentation": "<p>An inventory filter.</p>"
      }
    },
    "com.amazonaws.licensemanager#InventoryFilterCondition": {
      "type": "enum",
      "members": {
        "EQUALS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "EQUALS"
          }
        },
        "NOT_EQUALS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "NOT_EQUALS"
          }
        },
        "BEGINS_WITH": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "BEGINS_WITH"
          }
        },
        "CONTAINS": {
```

"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CONTAINS"
}
}
}
},
"com.amazonaws.licensemanager#InventoryFilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#InventoryFilter"
}
},
"com.amazonaws.licensemanager#Issuer": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. ",
"smithy.api#required": {}
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage
of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about the issuer of a license. "
}
},
"com.amazonaws.licensemanager#IssuerDetails": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. "
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer key fingerprint. "
}
}
},
"traits": {
"smithy.api#documentation": " Details associated with the issuer of a license. "
}
},
"com.amazonaws.licensemanager#License": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " License name. "
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. "
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. "
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#IssuerDetails",
"traits": {
"smithy.api#documentation": " License issuer. "

```
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

        "smithy.api#documentation": "<p>Home Region of the license.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        },
        "Validity": {
            "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {
                "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>"
            }
        },
        "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License beneficiary.</p>"
            }
        },
        "Entitlements": {

    "target": "com.amazonaws.licensemanager#EntitlementList",
            "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>"
            }
        },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
            }
        },
        "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
                "smithy.api#documentation": "<p>License metadata.</p>"
            }
        },
        "CreateTime": {
```

"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License
creation time. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#documentation": " Software license that is managed in License Manager. "
}
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
"type": "structure",
"members": {
"LicenseConfigurationId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Unique ID of the license configuration. "
}
},
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension to use to track the license inventory. "

```
            }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules.</p>"
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Number of available licenses as a hard limit.</p>"
            }
        },
        "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses consumed. </p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Status of the license configuration.</p>"
            }
        },
        "OwnerAccountId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Account ID of the license configuration's owner.</p>"

        }
        },
        "ConsumedLicenseSummaryList": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
```

"traits": {
"smithy.api#documentation": " Summaries for licenses consumed by various resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {

"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},

"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource consuming licenses. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " Time when the license configuration was associated with the resource. "
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an association with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
}
},
"com.amazonaws.licensemanager#LicenseConfigurationStatus": {
"type": "enum",
"members":
{
"AVAILABLE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "AVAILABLE"
}
},
"DISABLED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DISABLED"
}
}

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        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits":
{
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceStatus": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Status of the resource.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
                }
            },
            "AssociationTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time when the license configuration was initially associated with
the resource.</p>"
                }
            },

    "ConsumedLicenses": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about the usage of a resource associated with a license
configuration.</p>"
```

```
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurations": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfiguration"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionContext": {

  "type": "structure",
        "members": {
            "UsageOperation": {
                "target": "com.amazonaws.licensemanager#UsageOperation",
                "traits": {
                    "smithy.api#documentation": "<p>The Usage operation value that corresponds to the license type you
are converting your resource from.  For more information about which platforms correspond to which usage
operation values see <a href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-
fields.html#billing-info\">Sample data: usage operation by platform\n      </a>\n         </p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTask": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {

      "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the license type conversion task.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource associated
with the license type\n         conversion task.</p>"
                }
```

},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted to. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " The status of the conversion task. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was started at. "
}
},
"LicenseConversionTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the usage operation value of the resource was changed. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was completed. "
}
}

```
        },
        "traits": {
            "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTaskId": {
        "type": "string",
        "traits": {

       "smithy.api#length": {
                "min": 0,
                "max": 50
            },
            "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
        "type": "enum",
        "members": {
            "IN_PROGRESS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "IN_PROGRESS"
                }
            },
            "SUCCEEDED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "SUCCEEDED"
                }
            },
            "FAILED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "FAILED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTasks":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTask"
        }
    },
    "com.amazonaws.licensemanager#LicenseCountingType": {
        "type": "enum",
```

```
    "members": {
      "VCPU": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "vCPU"
        }
      },
      "INSTANCE": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "Instance"
        }
      },
      "CORE": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "Core"
        }
      },
      "SOCKET": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "Socket"
        }
      }
    }
  },
  "com.amazonaws.licensemanager#LicenseDeletionStatus": {
    "type": "enum",
    "members": {
      "PENDING_DELETE": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "PENDING_DELETE"
        }
      },
      "DELETED": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "DELETED"
        }
      }
    }
  },
  "com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
      "target": "com.amazonaws.licensemanager#License"
```

```
        }
    },
    "com.amazonaws.licensemanager#LicenseOperationFailure": {

        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type.</p>"
                }
            },
            "ErrorMessage": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Error message.</p>"
                }
            },
            "FailureTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {

    "smithy.api#documentation": "<p>Failure time.</p>"
                }
            },
            "OperationName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the operation.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the
resource.</p>"
                }
            },
            "OperationRequestedBy": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The requester is \"License Manager Automated Discovery\".</p>"
```

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            }
        },
        "MetadataList": {

            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
                "smithy.api#documentation": "<p>Reserved.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes the failure of a license operation.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#LicenseOperationFailure"
    }
},
"com.amazonaws.licensemanager#LicenseSpecification": {
    "type": "structure",
    "members": {
        "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

            "smithy.api#required": {}
            }
        },
        "AmiAssociationScope": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details for associating a license configuration with a resource.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#LicenseSpecification"
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    }
},
"com.amazonaws.licensemanager#LicenseStatus": {
    "type": "enum",
    "members": {
        "AVAILABLE": {
            "target": "smithy.api#Unit",

        "traits": {
                "smithy.api#enumValue": "AVAILABLE"
            }
        },
        "PENDING_AVAILABLE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_AVAILABLE"
            }
        },
        "DEACTIVATED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DEACTIVATED"
            }
        },
        "SUSPENDED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "SUSPENDED"
            }
        },
        "EXPIRED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EXPIRED"
            }
        },

    "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
```

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            }
        }
    },
    "com.amazonaws.licensemanager#LicenseUsage": {
        "type": "structure",
        "members": {
            "EntitlementUsages": {
                "target": "com.amazonaws.licensemanager#EntitlementUsageList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlement usages.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes the entitlement usage associated with a license.</p>"

        }
    },
    "com.amazonaws.licensemanager#LicenseUsageException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "LicenseUsageFailure",
                "httpResponseCode": 412
            },
            "smithy.api#documentation": "<p>You do not have enough licenses available to support a new resource
launch.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 412
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
        },
        "output": {

    "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
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            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the resource associations for the
 specified license configuration.</p>\n        <p>Resource associations need not consume licenses from a license
configuration. \n        For example, an AMI or a stopped instance might not consume a license (depending on \n
the license rules).</p>"
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results
 to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
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"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationAssociations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license configuration. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{

"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants distributed for the specified license. "
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranteePrincipalARN</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},

"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",

"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{

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            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the license configuration operations that failed.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
        "type": "structure",
        "members": {
          "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
              "smithy.api#required": {}
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse":
{
        "type": "structure",
        "members": {
          "LicenseOperationFailureList": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
            "traits": {
              "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
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                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurations": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },

    "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations
for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
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configurations. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next
set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical
operators\n are supported: \n \n \n \n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n
\n <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>. \n
\n \n \n <code>usagelimitExceeded</code> - A Boolean value that
indicates whether the available licenses have been exceeded. \n Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
"type": "structure",
"members": {
"LicenseConfigurations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurations",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",

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      "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasks": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
         },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
    "type": "structure",
    "members": {
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
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"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " \n Filters to scope the results. Valid filters are <code>ResourceArns</code> and <code>Status</code>.\n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
"type": "structure",
"members": {
"LicenseConversionTasks": {
"target": "com.amazonaws.licensemanager#LicenseConversionTasks",
"traits": {
"smithy.api#documentation": " Information about the license configuration tasks for your account. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target":
"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the report generators for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest":
{
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported:
\n \n \n \n <code>LicenseConfigurationArn</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}

```
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits":
 {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
            "ReportGenerators": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorList",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }

        }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
```

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Describes the license configurations for the specified resource. "
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a resource that has an associated license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {

```
        "LicenseSpecifications": {
            "target": "com.amazonaws.licensemanager#LicenseSpecifications",
            "traits": {
                "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
            }
        },
        "NextToken": {
             "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
         },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
    "type": "structure",
```

```
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
              "smithy.api#required": {}
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
              "smithy.api#documentation": "<p>License details.</p>"
            }
          },

"NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenses": {
        "type": "operation",
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```
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicensesRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicensesResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the licenses for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicensesRequest": {
        "type": "structure",
        "members": {
            "LicenseArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
                }
            },

     "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>Beneficiary</code>\n            </p>\n
        </li>\n            <li>\n                <p>\n                <code>ProductSKU</code>\n            </p>\n            </li>\n
    <li>\n                <p>\n                <code>Fingerprint</code>\n            </p>\n            </li>\n            <li>\n
<p>\n                <code>Status</code>\n            </p>\n            </li>\n        </ul>"
```

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            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token
for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicensesResponse": {
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
              "smithy.api#documentation": "<p>License details.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

  "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedGrants": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
```

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        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists grants that are received. Received grants are grants created while specifying the\n recipient as this Amazon Web Services account, your organization, or an organizational unit\n (OU) to which this member account belongs.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
```

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            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants received for all accounts in the organization.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the received license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n
    <ul>\n        <li>\n        <p>\n        <code>ParentArn</code>\n        </p>\n        </li>\n
<li>\n        <p>\n        <code>GranteePrincipalArn</code>\n        </p>\n        </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
```

```
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse":
{
        "type": "structure",
        "members": {
            "Grants": {
                "target": "com.amazonaws.licensemanager#GrantList",
                "traits": {
                    "smithy.api#documentation": "<p>Lists the grants the organization has received.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
        "type": "structure",
        "members": {
            "GrantArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                 "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>ProductSKU</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                <code>LicenseIssuerName</code>\n                </p>\n
</li>\n            <li>\n                <p>\n                <code>LicenseArn</code>\n                </p>\n            </li>\n
<li>\n                <p>\n                <code>GrantStatus</code>\n                </p>\n            </li>\n            <li>\n
<p>\n
        <code>GranterAccountId</code>\n                </p>\n            </li>\n        </ul>"
                }
            },
```

```
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
    "type": "structure",
    "members": {
        "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
             "traits": {
                "smithy.api#documentation": "<p>Received grant details.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists received licenses.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
```

```
            },
            {

        "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the licenses received for all accounts in the organization.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>Beneficiary</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                    <code>ProductSKU</code>\n
            </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
        "type": "structure",
        "members": {
            "Licenses": {
                "target": "com.amazonaws.licensemanager#GrantedLicenseList",
```

"traits": {
"smithy.api#documentation": " Lists the licenses the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>IssuerName</code>\n \n \n \n \n <code>Beneficiary</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}

```
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
    "type": "structure",
    "members": {
        "Licenses": {
            "target": "com.amazonaws.licensemanager#GrantedLicenseList",
            "traits": {
                "smithy.api#documentation": "<p>Received license details.</p>"
            }
        },

        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListResourceInventory": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#FailedDependencyException"
        },
        {
            "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
        },
        {
```

"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists resources managed using Systems Manager inventory. "
}
},
"com.amazonaws.licensemanager#ListResourceInventoryRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#InventoryFilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical operators\n are supported: \n \n \n \n <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n
\n \n \n <code>application_name</code> - The name of the application. \n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n
\n \n \n <code>license_included</code> - The type of license included. \n
Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n Possible values are <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n
\n <code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n \n \n \n
<code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n
<code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account). \n \n "

```
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListResourceInventoryResponse": {
        "type": "structure",
        "members": {
          "ResourceInventoryList": {
            "target": "com.amazonaws.licensemanager#ResourceInventoryList",
            "traits": {
              "smithy.api#documentation": "<p>Information
about the resources.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListTagsForResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
           },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the tags for the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the tags.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
```

"errors":
[
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists your tokens. "
}
},
"com.amazonaws.licensemanager#ListTokensRequest": {
"type": "structure",
"members": {
"TokenIds": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " Token IDs. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filter is supported: \n
\n \n \n <code>LicenseArns</code>\n \n \n
"
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",

"traits": {
"smithy.api#documentation":
" Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListTokensResponse": {
"type": "structure",
"members": {
"Tokens": {
"target": "com.amazonaws.licensemanager#TokenList",
"traits": {
"smithy.api#documentation": " Received token details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
             {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying license\n        consumption details by resource at a selected point in time. Use this action to audit the\n        current license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
             "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>resourceArn</code> - The ARN of the license configuration resource.\n
            Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n
            <li>\n                <p>\n                <code>resourceType</code> - The resource type
```

(<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>resourceAccount</code> - The ID of the account that owns the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
"type": "structure",
"members": {

"LicenseConfigurationUsageList": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#Location": {
"type": "string"
},
"com.amazonaws.licensemanager#Long": {
"type": "long"
},
"com.amazonaws.licensemanager#ManagedResourceSummary": {
"type": "structure",
"members": {
"ResourceType":
{
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of resource associated with a license. "
}

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        },
        "AssociationCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {

"type": "integer",
    "traits": {
        "smithy.api#range": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " The key name. "
}
},

"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The value. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes key/value pairs. "
}
},
"com.amazonaws.licensemanager#MetadataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Metadata"
}
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#Options": {
"type": "structure",
"members": {
"ActivationOverrideBehavior": {
"target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
"traits": {
"smithy.api#documentation": " An activation option for your grant that determines the behavior of activating a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter. \n \n \n As a license administrator, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant. \n

```
</li>\n <li>\n <p>As a grantor, you can optionally specify an\n
<code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your
organization.</p>\n </li>\n <li>\n <p>As a grantee, if the grantor creating the distributed
grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one
when you\n are activating the grant.</p>\n </li>\n </ul>\n <dl>\n
<dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n <p>Use this value to activate a grant
without replacing any member accounts\n active grants for the same product.</p>\n </dd>\n
<dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n <p>Use this value to activate a
grant and disable other active grants in any\n member accounts
 for the same product. This action will also replace their\n previously activated grants with this activated
grant.</p>\n </dd>\n </dl>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The options you can specify when you create a new version of a grant,
such as activation\n override behavior. For more information, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in
License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
      },
      "com.amazonaws.licensemanager#OrganizationConfiguration": {
        "type": "structure",
        "members": {
          "EnableIntegration": {
            "target": "com.amazonaws.licensemanager#Boolean",
            "traits": {
              "smithy.api#default": false,
              "smithy.api#documentation":
 "<p>Enables Organizations integration.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Configuration information for Organizations.</p>"
        }
      },
      "com.amazonaws.licensemanager#PrincipalArnList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#Arn"
        },
        "traits": {
          "smithy.api#length": {
            "min": 1,
            "max": 1
          }
```

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        }
    },
    "com.amazonaws.licensemanager#ProductInformation": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type. The
 possible values are <code>SSM_MANAGED</code> | <code>RDS</code>.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductInformationFilterList": {
                "target": "com.amazonaws.licensemanager#ProductInformationFilterList",
                "traits": {
                    "smithy.api#documentation": "<p>A Product information filter consists of a
<code>ProductInformationFilterComparator</code> which is a logical operator, a
<code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a
<code>ProductInformationFilterValue</code> that specifies the value to filter on. </p>\n        <p>Accepted values
for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for
<code>ProductInformationFilterComparator</code>. </p>\n        <p>The following filters and are supported when
the resource type \n        is <code>SSM_MANAGED</code>:</p>\n
        <ul>\n            <li>\n                <p>\n                <code>Application Name</code> - The name of the
application.\n                Logical operator is <code>EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n                <code>Application Publisher</code> - The publisher of the application.\n                Logical
operator is <code>EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n
<code>Application Version</code> - The version of the application.\n                Logical operator is
<code>EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>Platform
Name</code> - The name of the platform.\n                Logical operator is <code>EQUALS</code>.</p>\n
</li>\n            <li>\n                <p>\n                <code>Platform Type</code> - The platform type.\n
Logical operator is <code>EQUALS</code>.</p>\n
        </li>\n            <li>\n                <p>\n                <code>Tag:key</code> - The key of a tag attached to an
Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is
<code>NOT_EQUALS</code>.  The key for your tag must be appended to <code>Tag:</code> following the
example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you
are not using values for the key.\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from
automated discovery.\n                Logical operator is <code>NOT_EQUALS</code>.</p>\n            </li>\n
<li>\n                <p>\n                <code>License Included</code> - The type of license included.\n                Logical
operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n                Possible values are:
 <code>sql-server-enterprise</code> | \n                <code>sql-server-standard</code> | \n                <code>sql-server-
web</code> |  \n                <code>windows-server-datacenter</code>.</p>\n            </li>\n        </ul>\n
<p>The following filters and logical operators are supported when the resource type\n        is
<code>RDS</code>:</p>\n        <ul>\n            <li>\n                <p>\n                <code>Engine Edition</code> -
The edition of the database engine.\n                Logical operator is <code>EQUALS</code>.\n                Possible
values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-
se2</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>License Pack</code> - The license
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pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n <code>diagnostic pack sqlt</code> | \n
<code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n
\n ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information for a license configuration. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
"type": "structure",
"members": {
"ProductInformationFilterName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Filter name. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterValue": {
"target": "com.amazonaws.licensemanager#StringList",

"traits": {
"smithy.api#documentation": " Filter value. "
}
},
"ProductInformationFilterComparator": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Logical operator. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information filters. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ProductInformationFilter"
}
},
"com.amazonaws.licensemanager#ProductInformationList": {

"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ProductInformation"
}
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
"type": "structure",
"members": {
"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the provisional configuration, in minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"com.amazonaws.licensemanager#RateLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "RateLimitExceeded",
"httpResponseCode": 429
},
"smithy.api#documentation": " Too many requests have been submitted. Try again after a brief wait. ",
"smithy.api#error": "client",
"smithy.api#httpError": 429
}
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
"type": "structure",
"members": {
"ReceivedStatus": {
"target": "com.amazonaws.licensemanager#ReceivedStatus",
"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {

"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Received
status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations. "
}
}
},
"traits": {
"smithy.api#documentation": " Metadata associated with received licenses and grants. "
}
},
"com.amazonaws.licensemanager#ReceivedStatus": {
"type": "enum",
"members": {
"PENDING_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_WORKFLOW"
}
},
"PENDING_ACCEPT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue":
"PENDING_ACCEPT"
}
},
"REJECTED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REJECTED"
}
},
"ACTIVE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ACTIVE"
}
},
"FAILED_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {

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                "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        },
        "DISABLED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DISABLED"
            }
        },
        "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#RedirectException": {
    "type": "structure",
    "members": {
        "Location": {
            "target": "com.amazonaws.licensemanager#Location",
            "traits": {
                "smithy.api#httpHeader": "Location"
            }
        },
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 308
    }
},
"com.amazonaws.licensemanager#RejectGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#RejectGrantRequest"
    },
    "output": {
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"target": "com.amazonaws.licensemanager#RejectGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Rejects the specified grant. "
}
},
"com.amazonaws.licensemanager#RejectGrantRequest": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}

}
},
"com.amazonaws.licensemanager#RejectGrantResponse": {
"type": "structure",

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        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Grant version.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#RenewType":
{
        "type": "enum",
        "members": {
          "NONE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "None"
            }
          },
          "WEEKLY": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Weekly"
            }
          },
          "MONTHLY": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Monthly"
            }
          }
        }
      },
```

"com.amazonaws.licensemanager#ReportContext": {
"type": "structure",
"members": {
"licenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details of the license configuration that this generator reports on. "
}
},
"com.amazonaws.licensemanager#ReportFrequency": {
"type": "structure",
"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "
}
},
"period": {
"target": "com.amazonaws.licensemanager#ReportFrequencyType",

"traits": {
"smithy.api#documentation": " Time period between each report. The period can be daily, weekly, or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"com.amazonaws.licensemanager#ReportFrequencyType": {
"type": "enum",
"members": {
"DAY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DAY"
}

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            },
            "WEEK": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "WEEK"
                }
            },
            "MONTH": {
                "target": "smithy.api#Unit",
                "traits":
{
                    "smithy.api#enumValue": "MONTH"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ReportGenerator": {
        "type": "structure",
        "members": {
            "ReportGeneratorName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>"
                }
            },
            "ReportType": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports that are generated.</p>"
                }
            },
            "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
                    "smithy.api#documentation": "<p>License
configuration type for this generator.</p>"
                }
            },
            "ReportFrequency": {
                "target": "com.amazonaws.licensemanager#ReportFrequency",
                "traits": {
                    "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
                }
            },
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>"
```

```
            }
        },
        "LastRunStatus": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Status of the last report generation attempt.</p>"
            }
        },
        "LastRunFailureReason":
 {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Failure message for the last report generation attempt.</p>"
            }
        },
        "LastReportGenerationTime": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Time the last report was generated at.</p>"
            }
        },
        "ReportCreatorAccount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The Amazon Web Services account ID used to create the report
generator.</p>"
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",

      "traits": {
                "smithy.api#documentation": "<p>Description of the report generator.</p>"
            }
        },
        "S3Location": {
            "target": "com.amazonaws.licensemanager#S3Location",
            "traits": {
                "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
            }
        },
        "CreateTime": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Time the report was created.</p>"
            }
        },
```

```
        "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
                "smithy.api#documentation": "<p>Tags associated with the report generator.</p>"
            }

}
    },
    "traits": {
        "smithy.api#documentation": "<p>Describe the details of a report generator.</p>"
    }
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportGenerator"
    }
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#ReportType": {
    "type": "enum",
    "members": {
        "LICENSE_CONFIGURATION_SUMMARY_REPORT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "LicenseConfigurationSummaryReport"
            }

},
        "LICENSE_CONFIGURATION_USAGE_REPORT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "LicenseConfigurationUsageReport"
            }
        }
    }
},
"com.amazonaws.licensemanager#ReportTypeList": {
    "type": "list",
    "member": {
```

```
            "target": "com.amazonaws.licensemanager#ReportType"
        }
    },
    "com.amazonaws.licensemanager#ResourceInventory": {
        "type": "structure",
        "members": {
            "ResourceId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits":
{
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "Platform": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform of the resource.</p>"
                }
            },
            "PlatformVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
                }
            },
            "ResourceOwningAccountId":
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a resource.</p>"
        }
```

```
},
"com.amazonaws.licensemanager#ResourceInventoryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ResourceInventory"
    }
},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "ResourceLimitExceeded",

         "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>Your resource limits have been exceeded.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "InvalidResource.NotFound",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The resource cannot be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceType": {
    "type": "enum",
     "members": {
        "EC2_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
```

"smithy.api#enumValue": "EC2_INSTANCE"
}
},
"EC2_HOST": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "EC2_HOST"
}
},
"EC2_AMI": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "EC2_AMI"
}
},
"RDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "RDS"
}
},
"SYSTEMS_MANAGER_MANAGED_INSTANCE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
}
}
}
},
"com.amazonaws.licensemanager#S3Location": {
"type": "structure",
"members": {
"bucket": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the S3 bucket reports are published to. "
}
},
"keyPrefix": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Prefix of the S3 bucket reports are published to. "
}
}
},
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "

```
        }
    },
    "com.amazonaws.licensemanager#ServerInternalException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InternalError",
                "httpResponseCode": 500
            },
            "smithy.api#documentation": "<p>The server experienced an internal error. Try again.</p>",
            "smithy.api#error": "server",
            "smithy.api#httpError": 500
        }
    },
    "com.amazonaws.licensemanager#SignedToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 4096
            }
        }
    },
    "com.amazonaws.licensemanager#StatusReasonMessage": {
        "type": "string",
        "traits":
{
            "smithy.api#length": {
                "min": 0,
                "max": 400
            },
            "smithy.api#pattern": "^[\\s\\S]+$"
        }
    },
    "com.amazonaws.licensemanager#String": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#Tag": {
```

"type": "structure",
"members": {
"Key": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Tag key. "
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation":
" Tag value. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a tag for a license configuration. "
}
},
"com.amazonaws.licensemanager#TagKeyList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#String"
}
},
"com.amazonaws.licensemanager#TagList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Tag"
}
},
"com.amazonaws.licensemanager#TagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#TagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#TagResourceResponse"
},
"errors": [
{
"target":
"com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

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            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits":
 {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>One or more tags.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
```

"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. "
}
},
"TokenType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Type of token generated. The supported value is <code>REFRESH_TOKEN</code>. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"ExpirationTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Token expiration time, in ISO8601-UTC format. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller. "
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the roles included in the token. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. "
}
}
},
"traits": {

"smithy.api#documentation": " Describes a token. "
}
},
"com.amazonaws.licensemanager#TokenList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#TokenData"
}
},
"com.amazonaws.licensemanager#TokenString": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 4096
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#TokenType": {
"type": "enum",
"members": {
"REFRESH_TOKEN": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REFRESH_TOKEN"
}
}
}
},
"com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException":
{
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The digital signature method is unsupported. Try your request
again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#UntagResource": {
"type": "operation",

"input": {
"target": "com.amazonaws.licensemanager#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UntagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Removes the specified tags from the specified license configuration. "
}
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",
"traits": {
"smithy.api#documentation": " Keys identifying the tags to remove. ",
"smithy.api#required": {}
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Modifies the attributes of an existing license configuration. "
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"LicenseConfigurationStatus": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
"traits": {
"smithy.api#documentation": " New status of the license configuration. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " New license rule. The only rule that you can add after you create a license\n configuration is licenseAffinityToHost. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " New number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",

"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},

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            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates a report generator.</p>\n        <p>After you make changes to a
report generator, it starts generating new reports within 60 minutes of being updated.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest":
 {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to
update.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportGeneratorName": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>",
                    "smithy.api#required": {}
                }
            },
            "Type": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation":
 "<p>Type of reports to generate. The following report types are supported:</p>\n        <ul>\n            <li>\n
<p>License configuration report - Reports the number and details of consumed licenses for a license
configuration.</p>\n            </li>\n            <li>\n                <p>Resource report - Reports the tracked licenses and
resource consumption for a license configuration.</p>\n            </li>\n        </ul>",
                    "smithy.api#required": {}
                }
            },
            "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
```

"smithy.api#documentation": " The report context. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits":
{
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [

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            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },

            {
                "target": "com.amazonaws.licensemanager#InvalidResourceStateException"
            },
            {
                "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p>\n        <p>You can update the license specifications of AMIs, instances, and
hosts.\n        You cannot update the license specifications for launch templates and CloudFormation templates, \n
 as they send license configurations to the operation that creates the resource.</p>"
        }
    },

    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "AddLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
                }
            },
```

"RemoveLicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation":
" ARNs of the license configurations to remove. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Updates License Manager settings for the current Region. "
}
},

"com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
"type": "structure",
"members": {
"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon S3 bucket where the License
Manager information is stored. "
}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Enables integration with Organizations for cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Activates cross-account discovery. "

}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UsageOperation": {
"type": "string",
"traits": {
"smithy.api#length": {

```
                "min": 0,
                "max": 50
            }
        }
    },
    "com.amazonaws.licensemanager#ValidationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",

     "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    }
  }
}
```


```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version
 of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
```

```
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack,
options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if
err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
```

```
middleware.Before); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
```

1.4337 aws-sdk-go-v2-internal-endpoints 2.5.10

1.4337.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil,
 err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
```

```
 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err !=
 nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
  return err
```

```
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
```

AWS SDK for Go
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```
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
     - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
       with:
         python-version: ${{ matrix.python-version }}
     # ScanCode
     - name: Self-configure scancode
       working-directory: ./scancode-toolkit
       run: ./scancode --help
     - name: Run Scan code on target
       run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
```

```
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
```

```
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return
 err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
```

```
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckInLicense",
 }
}
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
      "type": "integer"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
      "type": "long"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The type of name to filter by.</p>"
          }
        },
        "Values": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
          "traits": {
            "smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
          }
        },
        "Operator": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
           "traits": {
            "smithy.api#documentation": "<p>An operator for filtering results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>A filter object that is used to return more specific results from a describe
operation.\n      Filters can be used to match a set of resources by specific criteria.</p>"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
      }
    },
```

"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
},
"output": {

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions service settings. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/GetServiceSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest":
{
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " Lists the settings defined for Linux subscriptions discovery. The

settings include if\n Organizations integration has been enabled, and
which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being
applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings
current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays
the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
"type": "structure",
"members": {
"AmiId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The AMI ID used to launch the instance. "
}
},
"InstanceID": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The instance ID of the resource. "
}
},
"InstanceType": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The instance type of the resource. "
}

```
        },
            "AccountID": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The account ID which owns the instance.</p>"
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status of the instance.</p>"
                }
            },
            "Region": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Region the instance is running in.</p>"
                }
            },
            "UsageOperation": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The usage operation of the instance. For more information, see For
 more information, see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-
subscriptions-usage-operation.html\">Usage\n        operation values</a> in the <i>License Manager User
Guide</i>.</p>"
                }
            },
            "ProductCode": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
                "traits": {
                    "smithy.api#documentation": "<p>The product code for the instance. For more information, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-
operation.html\">Usage\n        operation values</a> in the <i>License Manager User Guide</i> .</p>"
                }
            },
            "LastUpdatedTime": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The time in which the last discovery
 updated the instance details.</p>"
                }
            },
            "SubscriptionName": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the subscription being used by the instance.</p>"
                }
```

```
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details discovered information about a running instance using Linux
subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
             }
        },
        "traits": {
            "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
            "smithy.api#error": "server"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
        "type": "service",
        "version": "2018-05-10",
        "operations": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
            }
        ],

    "traits": {
            "aws.api#service": {
                "sdkId": "License Manager Linux Subscriptions",
                "arnNamespace": "license-manager-linux-subscriptions",
                "cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
```

},
"aws.auth#sigv4": {
"name": "license-manager-linux-subscriptions"
},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",

"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"
]
},
"smithy.api#documentation": " With License Manager, you can discover and track your commercial Linux subscriptions on running\n Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager Linux Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
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"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",

"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

"type": "Boolean"
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"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
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"rules": [
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"conditions": [
{
"fn": "isSet",
"argv": [
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"ref": "Endpoint"
}
]
}
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"type": "tree",
"rules": [
{

"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
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true
]
}
],
"error": "Invalid Configuration: FIPS and custom endpoint are not supported",
"type": "error"
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                  "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                  "type": "error"
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                  "conditions": [],

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                    "properties": {},
                    "headers": {}
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                  "type": "endpoint"
                }
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"argv": [
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                      "ref": "Region"
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                        "fn": "aws.partition",
                        "argv": [
                            {
                                "ref": "Region"
                            }
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"assign": "PartitionResult"
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                "type": "tree",
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                                "argv": [
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                                        "ref": "UseFIPS"
                                    },
                                    true
                                ]
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                                        "ref": "UseDualStack"
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                                    true
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                                "conditions": [
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"fn": "booleanEquals",
"argv": [
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{
"fn": "getAttr",
"argv": [
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"ref": "PartitionResult"
},
"supportsFIPS"
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"fn": "booleanEquals",
"argv": [
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"argv": [
{
"ref": "PartitionResult"
},

"supportsDualStack"
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"rules": [
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"properties": {},
"headers": {}
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"type": "endpoint"
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"conditions": [],
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"type": "error"
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"conditions": [
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"fn": "booleanEquals",
"argv": [
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"ref": "UseFIPS"
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{
"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsFIPS"
]
}
]
}

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                "rules": [
                    {
                        "conditions": [],
                        "type": "tree",
                        "rules": [
                            {
                                "conditions": [],
                                "endpoint": {
                                    "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                                    "properties": {},
                                    "headers": {}

                                },
                                "type": "endpoint"
                            }
                        ]
                    }
                ]
            },
            {
                "conditions": [],
                "error": "FIPS is enabled but this partition does not support FIPS",
                "type": "error"
            }
        ]

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        {
            "conditions": [
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                    "fn": "booleanEquals",
                    "argv": [
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                            "ref": "UseDualStack"
                        },
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                    ]
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            "type": "tree",
            "rules": [
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```

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                        "argv": [
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                                "fn": "getAttr",
                                "argv": [
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                                        "ref": "PartitionResult"
                                    },
                                    "supportsDualStack"
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                            }
                        ]
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                        "rules": [
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                                "conditions": [],

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subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                    "properties": {},
                                    "headers": {}
                                },
                                "type": "endpoint"
                            }
                        ]
                    }
                ]
            },

        {
                "conditions": [],
                "error": "DualStack is enabled but this partition does not support DualStack",
                "type": "error"
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        "conditions": [],
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"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
}
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]
},
{
"conditions": [],
"error": "Invalid Configuration: Missing Region",
"type": "error"
}
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}
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},
"smithy.rules#endpointTests": {
"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {

"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"

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        }
    },
    "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": false
    }
},
{
    "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
        }
    },
    "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
         "UseDualStack": true
    }
},
{
    "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
        }
    },
    "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": false
    }
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{
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
    "expect": {
        "endpoint": {

    "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
        }
    },
    "params": {
        "Region": "cn-north-1",
        "UseFIPS": true,
        "UseDualStack": true
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},
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          "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
            }
          },
          "params": {
            "Region": "cn-north-1",
            "UseFIPS": true,
             "UseDualStack": false
          }
        },
        {
          "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
            }
          },
          "params": {
            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint":
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              "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
            }
          },
          "params": {
            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
            }
          },
          "params": {
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"Region": "us-gov-east-1",
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"UseDualStack": true
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"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
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"url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
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"params": {
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"UseFIPS": true,
"UseDualStack": false
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"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint":
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"url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
}
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{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {

"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
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"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",

"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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"params": {

"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
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{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}
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{
"documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",

"UseFIPS": false,
"UseDualStack": false
}

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            },
            {
              "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://example.com"
                }
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",

        "expect": {
                "endpoint": {
                  "url": "https://example.com"
                }
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              "params": {
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "For custom endpoint with fips enabled and dualstack disabled",
              "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false,

          "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "For custom endpoint with fips disabled and dualstack enabled",
              "expect": {
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
              },
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                "params": {
                  "Region": "us-east-1",
                  "UseFIPS": false,
                  "UseDualStack": true,
                  "Endpoint": "https://example.com"
                }
              },
              {
                "documentation": "Missing region",
                "expect": {
                  "error": "Invalid Configuration: Missing Region"
                }

          }
            ],
            "version": "1.0"
          }
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
        "type": "string",
        "traits": {
          "smithy.api#enum": [
            {
              "name": "Enabled",
              "value": "Enabled",
              "documentation": "Enabled LinuxSubscriptionsDiscovery"
            },
            {
              "name": "Disabled",
              "value": "Disabled",
              "documentation": "Disabled LinuxSubscriptionsDiscovery"
            }
          ]
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
        "type": "structure",
        "members": {
          "SourceRegions": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
             "traits": {
              "smithy.api#documentation": "<p>The Regions in which to discover data for Linux
subscriptions.</p>",
              "smithy.api#required": {}
            }
          },
          "OrganizationIntegration": {
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"target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
"traits": {
"smithy.api#documentation": " Details if you have enabled resource discovery across your accounts in Organizations. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Lists the settings defined for discovering Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
"type":
"operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the running Amazon EC2 instances that were discovered with commercial Linux\n subscriptions. ",
"smithy.api#http": {

"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptionInstances"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Instances"
}

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            }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
            "type": "structure",
            "members": {
                "Filters": {
                    "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                    "traits": {
                        "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by
 the name of\n        <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n
match, or don't match a certain Amazon Machine Image (AMI) ID.</p>\n        <p>The valid names for this filter
are:</p>\n        <ul>\n            <li>\n                <p>\n                <code>AmiID</code>\n                </p>\n
</li>\n            <li>\n                <p>\n                <code>InstanceID</code>\n                </p>\n            </li>\n
<li>\n                <p>\n                <code>AccountID</code>\n                </p>\n            </li>\n            <li>\n
<p>\n                <code>Status</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>Region</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>UsageOperation</code>\n                </p>\n            </li>\n            <li>\n
    <p>\n                <code>ProductCode</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
     <code>InstanceType</code>\n                </p>\n            </li>\n        </ul>\n        <p>The valid Operators for this
filter are:</p>\n        <ul>\n            <li>\n                <p>\n                <code>contains</code>\n                </p>\n
</li>\n            <li>\n                <p>\n                <code>equals</code>\n                </p>\n            </li>\n            <li>\n
            <p>\n                <code>Notequal</code>\n                </p>\n            </li>\n        </ul>"
                    }
                },
                "MaxResults": {
                    "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
                    "traits": {
                        "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"

        }
                },
                "NextToken": {
                    "target": "smithy.api#String",
                    "traits": {
                        "smithy.api#documentation": "<p>Token for the next set of results.</p>",
                        "smithy.api#length": {
                            "min": 1,
                            "max": 16384
                        }
                    }
                }
            },
            "traits": {
                "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
            }
        },
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"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
"type": "structure",
"members": {
"Instances": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
"traits": {
"smithy.api#documentation":
" An array that contains instance objects. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions that have been discovered. If you have linked your\n organization, the returned results will include data aggregated across your accounts in\n Organizations. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptions"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {

"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Subscriptions"
}

}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>Subscription</code> with an optional operator to see subscriptions that match,\n partially match, or don't match a certain subscription's name. \n The valid names for this filter are: \n \n \n \n <code>Subscription</code>\n \n \n \n The valid Operators for this filter are: \n \n \n \n <code>contains</code>\n \n \n \n \n <code>equals</code>\n \n \n \n \n <code>Notequal</code>\n \n \n "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. ",
"smithy.api#length": {

"min": 1,
"max": 16384
}
}
}
},
"traits": {
"smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."
}
},

```
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
        "type": "structure",
        "members": {
            "Subscriptions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
                "traits": {
                    "smithy.api#documentation": "<p>An array that contains subscription objects.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for
the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "name": "EQUAL",
                    "value": "Equal",
                    "documentation": "Equal operator"
                },
                {
                    "name": "NOT_EQUAL",
                    "value": "NotEqual",
                    "documentation": "Not equal operator"
                },
                {
                    "name": "CONTAINS",
                    "value": "Contains",
                    "documentation": "Contains operator"
                }
            ],
            "smithy.api#length": {
                "min": 1,
                "max": 20
            }
        }
    },

  "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
        "type": "string",
        "traits": {
```

"smithy.api#enum": [
{
"name": "Enabled",
"value": "Enabled",
"documentation": "Enabled OrganizationIntegration"
},
{
"name": "Disabled",
"value": "Disabled",
"documentation": "Disabled OrganizationIntegration"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
"type": "list",
"member": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
"type": "string",
"traits": {
"smithy.api#enum": [

{
"name": "InProgress",
"value": "InProgress",
"documentation": "InProgress status"
},
{
"name": "Completed",
"value": "Completed",
"documentation": "Completed status"
},
{
"name": "Successful",
"value": "Successful",
"documentation": "Successful status"
},
{
"name": "Failed",
"value": "Failed",
"documentation": "Failed status"
}
]
}
},

"com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
"type": "list",
"member": {
"target": "smithy.api#String",
"traits":
{
"smithy.api#length": {
"min": 1,
"max": 100
}
}
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
},
"smithy.api#uniqueItems": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
"type": "map",
"key": {
"target": "smithy.api#String"
},
"value": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
"type": "structure",
"members": {
"Name": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription. "

}
},
"Type": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own\n Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the\n Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS. "
}
},

"InstanceCount": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
"traits": {
"smithy.api#documentation": " The total amount of running instances using this subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " An object which details a discovered Linux subscription. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request was denied due to request throttling. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
},

"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates the service settings for Linux subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/UpdateServiceSettings"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest":
{
        "type": "structure",
        "members": {
            "LinuxSubscriptionsDiscovery": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
                "traits": {
                    "smithy.api#documentation": "<p>Describes if the discovery of Linux subscriptions is enabled.</p>",
                    "smithy.api#required": {}
                }
            },
            "LinuxSubscriptionsDiscoverySettings": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
                "traits": {
                    "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The
settings include if Organizations\n      integration has been enabled, and which Regions data will be aggregated
from.</p>",

  "smithy.api#required": {}
                }
            },
            "AllowUpdate": {
                "target": "smithy.api#Boolean",
                "traits": {
                    "smithy.api#documentation": "<p>Describes if updates are allowed to the service settings for Linux
subscriptions. If you\n      allow updates, you can aggregate Linux subscription data in more than one home
Region.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "LinuxSubscriptionsDiscovery": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
```

"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},

"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The provided input is not valid. Try your request again. ",
"smithy.api#error": "client"
}
}

```
   }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - Beneficiary
 //   - ProductSKU
 //   - Fingerprint
 //
   - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
```

```
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if
 err := addProtocolFinalizerMiddlewares(stack, options, "ListLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
```

```
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
     ServiceID,
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
```

```
 //
 //
 This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack,
 options, "DisassociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
```

```
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
```

```
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {
```

```
 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource
 Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil
```

```
{
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack);
err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
```

```
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
```

```
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier
 that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
```

```
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }
```

```
if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return
err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
```

```
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
```

```
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide
 to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
```

```
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity
 *types.DatetimeRange

 // Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
```

```
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
 return fmt.Errorf("add
protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName:
 "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
```

```
err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return
err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack);
 err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "GetLicense",
 }
}
```

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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

```
import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
   - ProductSKU
 //   - Status
 //   - Fingerprint
 //   - IssuerName
 //   - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
```

```
middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack);
err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
```

```
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
 }
}
```

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```
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
        "smithy.api#error": "client"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
      "type": "structure",
      "members": {
        "DirectoryId": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation":
"<p>Details about an Active Directory identity provider.</p>"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
```

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Associates the user to an EC2 instance to utilize user-based
subscriptions.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related
costs will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing
status) in Amazon Web Services Billing. For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n
        monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/AssociateUser"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the
 EC2 instance, which provides user-based subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
```

"traits": {
"smithy.api#documentation": " The identity provider of the user. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
"type": "integer"
},
"com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request couldn't be completed because it conflicted with the current state of the\n resource. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
},
"output": {

"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deregisters the identity provider from providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/DeregisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",

```
            "traits": {
                "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
    "type": "structure",
    "members": {
        "IdentityProviderSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
            "traits": {
                "smithy.api#documentation":
"<p>Metadata that describes the results of an identity provider operation.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
         },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
```

"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Disassociates the user from an EC2 instance providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/DisassociateUser"
},
"smithy.api#idempotent": {}
}

},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
        "type": "structure",
        "members": {
            "InstanceUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },

"com.amazonaws.licensemanagerusersubscriptions#Filter": {
        "type": "structure",
        "members": {
            "Attribute": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of an attribute to use as a filter.</p>"
                }
            },
            "Operation": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The type of search (For example, eq, geq, leq)</p>"
                }
            },
            "Value": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Value of the filter.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A filter name and value pair that is used
to return more specific results from a describe\n      operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n      attributes, or IDs.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#FilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
        }
    },
```

```
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
        "type": "union",
        "members": {
            "ActiveDirectoryIdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that details an Active Directory identity provider.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
 "<p>Details about an identity provider.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Settings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
                "traits": {
                    "smithy.api#documentation": "<p>An object that details the registered identity providers product
related configuration\n      settings such as the subnets to provision VPC endpoints.</p>",
                    "smithy.api#required":
 {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status of an identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
```

"FailureMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The failure message associated with an identity provider. "
}
}
},
"traits": {
"smithy.api#documentation":
" Describes an identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
"type": "structure",
"members": {
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based
subscriptions. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status
of an EC2 instance resource. ",
"smithy.api#required": {}
}
},
"Products": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
"traits": {
"smithy.api#documentation": " A list of provided user-based subscription products. ",
"smithy.api#required": {}
}
},
"LastStatusCheckDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date of the last status check. "

```
                }
            },
            "StatusMessage": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status message for an EC2 instance.</p>"
                }

        }
            },
            "traits": {
                "smithy.api#documentation": "<p>Describes an EC2 instance providing user-based subscriptions.</p>"
            }
        },
        "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
            "type": "list",
            "member": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
            }
        },
        "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
            "type": "structure",
            "members": {
                "Username": {
                    "target": "smithy.api#String",
                    "traits": {
                        "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                        "smithy.api#required": {}
                    }
                },
                "InstanceId": {
                    "target": "smithy.api#String",
                    "traits":
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                        "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                        "smithy.api#required": {}
                    }
                },
                "IdentityProvider": {
                    "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                    "traits": {
                        "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                        "smithy.api#required": {}
                    }
                },
                "Status": {
                    "target": "smithy.api#String",
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"traits": {
"smithy.api#documentation": " The status of a user associated with an EC2 instance. ",
"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for users of an EC2 instance. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"AssociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was associated with an EC2 instance. "
}
},
"DisassociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was disassociated from an EC2 instance. "
}
}

},
"traits": {
"smithy.api#documentation": " Describes users of an EC2 instance providing user-based subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}

```
        },
        "traits": {
            "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
            "smithy.api#error": "server"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
        "type": "service",

     "version": "2018-05-10",
        "operations": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

},
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
            }
        ],
        "traits": {
            "aws.api#service": {
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"sdkId": "License Manager User Subscriptions",
"arnNamespace": "license-manager-user-subscriptions",
"cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
},
"aws.auth#sigv4": {
"name": "license-manager-user-subscriptions"
},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",
"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"

]
},
"smithy.api#documentation": " With License Manager, you can create user-based subscriptions to utilize licensed software with\n a per user subscription fee on Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager User Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,

"documentation": "When true, use the dual-stack
endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the
configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}

},
"rules": [
{
"conditions": [
{
"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
]
}
],
"type": "tree",
"rules": [
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
},

true
]
}
],
"error": "Invalid Configuration: FIPS and custom endpoint are not supported",

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                "type": "error"
            },
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseDualStack"
                            },
                            true
                        ]
                    }
                ],

"error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                "type": "error"
            },
            {
                "conditions": [],
                "endpoint": {
                    "url": {
                        "ref": "Endpoint"
                    },
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ]
    },
    {
        "conditions": [
            {
                "fn": "isSet",
                "argv": [

{
                        "ref": "Region"
                    }
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
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                "fn": "aws.partition",
                "argv": [
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                    "ref": "Region"
                  }
                ],
                "assign": "PartitionResult"
              }
            ],
            "type": "tree",

      "rules": [
              {
                "conditions": [
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseFIPS"
                      },
                      true
                    ]
                  },
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseDualStack"

                     },
                      true
                    ]
                  }
                ],
                "type": "tree",
                "rules": [
                  {
                    "conditions": [
                      {
                        "fn": "booleanEquals",
                        "argv": [
                          true,
                          {
                            "fn": "getAttr",

  "argv": [
                                  {
                                    "ref": "PartitionResult"
```

```
                                    },
                                    "supportsFIPS"
                                ]
                            }
                        ]
                    },
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
                            {

"fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsDualStack"
                                ]
                            }
                        ]
                    }
                ],
                "type": "tree",
                "rules": [
                    {

"conditions": [],
                        "endpoint": {
                            "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                            "properties": {},
                            "headers": {}
                        },
                        "type": "endpoint"
                    }
                ]
            },
            {
                "conditions": [],
                "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
                 "type": "error"
            }
        ]
    },
    {
        "conditions": [
```

```
                    {
                      "fn": "booleanEquals",
                      "argv": [
                        {
                          "ref": "UseFIPS"
                        },
                        true
                      ]
                    }
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                  "type": "tree",

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                    {
                      "conditions": [
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                          "fn": "booleanEquals",
                          "argv": [
                            true,
                            {
                              "fn": "getAttr",
                              "argv": [
                                {
                                  "ref": "PartitionResult"
                                },
                                "supportsFIPS"

                          ]
                            }
                          ]
                        }
                      ],
                      "type": "tree",
                      "rules": [
                        {
                          "conditions": [],
                          "endpoint": {
                            "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                            "properties": {},
                            "headers": {}

            },
                          "type": "endpoint"
                        }
                      ]
                    },
                    {
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"conditions": [],
"error": "FIPS is enabled but this partition does not support FIPS",
"type": "error"
}
]
},
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"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseDualStack"
},
true
]
}
],
"type": "tree",
"rules": [
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"conditions": [
{
"fn": "booleanEquals",
"argv": [
true,
{

"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsDualStack"
]
}
]
}
],
"type": "tree",
"rules": [
{

"conditions": [],
"endpoint": {
"url": "https://license-manager-user-subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},

"headers": {}
},
"type": "endpoint"
}
]
},
{
"conditions": [],
"error": "DualStack is enabled but this partition does
not support DualStack",
"type": "error"
}
]
},
{
"conditions": [],
"endpoint": {
"url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
}
]
},
{
"conditions":
[],
"error": "Invalid Configuration: Missing Region",
"type": "error"
}
]
},
"smithy.rules#endpointTests": {
"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,

"UseDualStack": true
}
},
{
"documentation":
"For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
}
},

"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with
FIPS enabled and DualStack enabled",
"expect": {

"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},

"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",

"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1
with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {

"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect":
{
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack":
true
}
},

{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but
this partition does not support one or both"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}

},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true

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            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
                }
            },
             "params": {
                "Region": "us-isob-east-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://example.com"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {

"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://example.com"
                }
            },
            "params": {
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips enabled and dualstack disabled",
            "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
            },
```

```
                "params": {
                    "Region": "us-east-1",
                     "UseFIPS": true,
                    "UseDualStack": false,
                    "Endpoint": "https://example.com"
                }
            },
            {
                "documentation": "For custom endpoint with fips disabled and dualstack enabled",
                "expect": {
                    "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
                },
                "params": {
                    "Region": "us-east-1",
                    "UseFIPS": false,
                    "UseDualStack": true,
                    "Endpoint": "https://example.com"
                }
            },
            {
                "documentation": "Missing region",
                "expect": {
                     "error": "Invalid Configuration: Missing Region"
                }
            }
        ],
        "version": "1.0"
    }
  }
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the identity providers for user-based subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/ListIdentityProviders"
            },
            "smithy.api#paginated":
{
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "IdentityProviderSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
```

```
{
        "type": "structure",
        "members": {
            "IdentityProviderSummaries": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
                    "smithy.api#required": {}
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
         },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
```

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/instance/ListInstances"
            },
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                 "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
        "type":
 "structure",
        "members": {
            "InstanceSummaries": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the list instances operation.</p>"
```

```
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
             }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the user-based subscription products available from an identity
provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListProductSubscriptions"
```

```
            },
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "ProductUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name
of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {

 "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match
one or\n      more sets of key-value pairs that you specify.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
```

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
      "type": "structure",
      "members": {
        "ProductUserSummaries": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
          "traits": {
            "smithy.api#documentation": "<p>Metadata that describes the list product subscriptions
operation.</p>"
          }
        },

     "NextToken": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
          "target":
 "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
```

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            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists user associations for an identity provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListUserAssociations"
            },
            "smithy.api#paginated":
{
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity
provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {
```

"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
"type": "structure",
"members": {
"InstanceUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list user association operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
"type": "structure",
"members": {

"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider of the user. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},

"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}

},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a product for a user. ",
"smithy.api#required": {}
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for a product for a user. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"SubscriptionStartDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The
start date of a subscription. "
}
},
"SubscriptionEndDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The end date of a subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " The summary of the user-based subscription products for a user. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
"type": "list",
"member": {

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        "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
    }
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
     },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
         },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Registers an identity provider for user-based subscriptions.</p>",
        "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/identity-provider/RegisterIdentityProvider"
        },
        "smithy.api#idempotent": {}
    }
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
    "type": "structure",
    "members": {
        "IdentityProvider": {
```

"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings such as the\n subnets to provision VPC endpoints. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The resource couldn't be found. ",
"smithy.api#error": "client",
"smithy.api#httpError": 404

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        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
        "type": "string",

    "traits": {
            "smithy.api#length": {
                "min": 5,
                "max": 200
            },
            "smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request failed because a service quota is exceeded.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Settings": {
        "type": "structure",
        "members": {
            "Subnets": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
                "traits": {
                    "smithy.api#documentation":
 "<p>The subnets defined for the registered identity provider.</p>",
                    "smithy.api#length": {
                        "min": 1
                    },
                    "smithy.api#required": {}
                }
            },
            "SecurityGroupId": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
                "traits": {
                    "smithy.api#documentation": "<p>A security group ID that allows inbound TCP port 1688
communication between resources in\n      your VPC and the VPC endpoint for activation servers.</p>",
                    "smithy.api#required": {}
                }
            }
        },
```

"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings such as the\n subnets to provision VPC endpoints, and the security group ID that is associated with the VPC\n endpoints. The security group should permit inbound TCP port 1688 communication from resources\n in the VPC. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Starts a product subscription for a user with the specified identity provider. \n <note>\n Your estimated bill for charges on the number of users and related costs will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more information, see Viewing your\n monthly charges in the Amazon Web Services Billing User Guide. \n </note>",
"smithy.api#http": {
"code": 200,

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            "method": "POST",
            "uri": "/user/StartProductSubscription"
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
        "type": "structure",
        "members": {
          "Username": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
              "smithy.api#required": {}
            }
          },
          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
             "traits": {
              "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "Product": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
              "smithy.api#required": {}
            }
          },
          "Domain": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
        "type": "structure",
         "members": {
          "ProductUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the start product subscription
operation.</p>",
              "smithy.api#required": {}
            }
          }
```

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            }
        },
        "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
            "type": "operation",
            "input": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
            },
            "output": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
            },
            "errors": [
                {
                    "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

    },
                {
                    "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
                },
                {
                    "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
                },
                {
                    "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
                },
                {
                    "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
                },
                {
                    "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
                },
                {
                    "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
                }
            ],
            "traits": {
                "smithy.api#documentation": "<p>Stops a product subscription for a user with the specified identity
provider.</p>",
                 "smithy.api#http": {
                    "code": 200,
                    "method": "POST",
                    "uri": "/user/StopProductSubscription"
                }
            }
        },
        "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
            "type": "structure",
            "members": {
                "Username": {
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"target": "smithy.api#String",
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"smithy.api#documentation": " The user name from the identity provider for the user. ",
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"smithy.api#documentation": " An object that specifies details for the identity provider. ",
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"smithy.api#required": {}
}
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"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
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"traits": {
"smithy.api#documentation":
" Metadata that describes the start product subscription operation. ",
"smithy.api#required": {}
}
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"com.amazonaws.licensemanagerusersubscriptions#StringList": {
"type": "list",
"member": {
"target": "smithy.api#String"
}
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"com.amazonaws.licensemanagerusersubscriptions#Subnet": {
"type": "string",
"traits": {
"smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
}
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"com.amazonaws.licensemanagerusersubscriptions#Subnets": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
"type": "structure",
"members": {
"message": {

"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request was denied because of request throttling. Retry the request. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
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"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],

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        "traits": {
            "smithy.api#documentation": "<p>Updates additional product configuration settings for the registered identity\n      provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/UpdateIdentityProviderSettings"
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            "smithy.api#idempotent": {}
        }
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    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
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        "members": {
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                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                 "traits": {
                    "smithy.api#required": {}
                }
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            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "UpdateSettings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
                "traits": {
                    "smithy.api#documentation": "<p>Updates the registered identity providers product related configuration settings. You can\n      update any combination of settings in a single operation such as the:</p>\n <ul>\n            <li>\n                <p>Subnets which you want to add to provision VPC endpoints.</p>\n            </li>\n            <li>\n                <p>Subnets which you want to remove the VPC endpoints from.</p>\n            </li>\n <li>\n                <p>Security group ID which permits traffic to the VPC endpoints.</p>\n            </li>\n        </ul>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
        "type": "structure",
        "members": {
            "IdentityProviderSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
                "traits": {
                    "smithy.api#required": {}
                }
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            }
        }
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    "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
        "type": "structure",
        "members": {
            "AddSubnets": {

             "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of one or more subnets in which License Manager will
create a VPC endpoint for products that\n      require connectivity to activation servers.</p>",
                    "smithy.api#required": {}
                }
            },
            "RemoveSubnets": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of one or more subnets to remove.</p>",
                    "smithy.api#required": {}
                }
            },
            "SecurityGroupId": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
                "traits": {
                    "smithy.api#documentation": "<p>A security group ID
 that allows inbound TCP port 1688 communication between resources in\n      your VPC and the VPC endpoints for
activation servers.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Updates the registered identity providers product related configuration
settings such as\n      the subnets to provision VPC endpoints.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A parameter is not valid.</p>",
            "smithy.api#error": "client"
        }
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  "smithy": "2.0",
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        "namespace": "*"
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      {
        "id": "HttpResponseCodeSemantics",
        "namespace": "*"
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      {
        "id": "PaginatedTrait",
        "namespace": "*"
      },
      {
        "id": "HttpHeaderTrait",
        "namespace": "*"
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      {
        "id": "HttpUriConflict",
        "namespace": "*"
      },
      {
        "id": "Service",
        "namespace": "*"
      }
    ]
  },
  "shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
      "type": "service",
      "version": "2018-08-01",
      "operations": [
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          "target": "com.amazonaws.licensemanager#AcceptGrant"
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          "target": "com.amazonaws.licensemanager#CheckInLicense"
        },
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          "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
        },
        {
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"target": "com.amazonaws.licensemanager#CheckoutLicense"
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"target": "com.amazonaws.licensemanager#CreateGrant"
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"target": "com.amazonaws.licensemanager#CreateGrantVersion"
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"target": "com.amazonaws.licensemanager#CreateLicense"
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"target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
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"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
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"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
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"target": "com.amazonaws.licensemanager#CreateLicenseVersion"
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"target": "com.amazonaws.licensemanager#CreateToken"
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"target": "com.amazonaws.licensemanager#DeleteGrant"
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"target": "com.amazonaws.licensemanager#DeleteLicense"
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"target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
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"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
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"target": "com.amazonaws.licensemanager#DeleteToken"
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"target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

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"target": "com.amazonaws.licensemanager#GetAccessToken"
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"target": "com.amazonaws.licensemanager#GetGrant"
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"target": "com.amazonaws.licensemanager#GetLicense"
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"target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
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"target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
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"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
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"target": "com.amazonaws.licensemanager#GetLicenseUsage"
},
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"target": "com.amazonaws.licensemanager#GetServiceSettings"
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"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
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"target": "com.amazonaws.licensemanager#ListDistributedGrants"
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"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
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"target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
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"target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
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"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
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"target": "com.amazonaws.licensemanager#ListLicenses"
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"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
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"target": "com.amazonaws.licensemanager#ListLicenseVersions"
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"target": "com.amazonaws.licensemanager#ListReceivedGrants"
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"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization"
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"target": "com.amazonaws.licensemanager#ListReceivedLicenses"
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"target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization"
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"target": "com.amazonaws.licensemanager#ListResourceInventory"
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"target": "com.amazonaws.licensemanager#ListTagsForResource"
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"target": "com.amazonaws.licensemanager#ListTokens"
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"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
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"target": "com.amazonaws.licensemanager#RejectGrant"
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"target": "com.amazonaws.licensemanager#TagResource"
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"target": "com.amazonaws.licensemanager#UntagResource"
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"target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
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"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
},
{
"target": "com.amazonaws.licensemanager#UpdateServiceSettings"
}
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"traits": {
"aws.api#service": {
"sdkId": "License Manager",
"arnNamespace": "license-manager",
"cloudFormationName": "LicenseManager",
"cloudTrailEventSource": "licensemanager.amazonaws.com",
"endpointPrefix": "license-manager"
},
"aws.auth#sigv4": {
"name": "license-manager"
},
"aws.protocols#awsJson1_1": {},
"smithy.api#documentation": " License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers. ",
"smithy.api#title": "AWS License Manager",
"smithy.api#xmlNamespace": {
"uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
},
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",

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            "type": "String"
        }
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    "rules": [
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                    "fn": "isSet",
                    "argv": [
                        {
                            "ref": "Endpoint"
                        }
                    ]

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            "type": "tree",
            "rules": [
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                            "fn": "booleanEquals",
                            "argv": [
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                                    "ref": "UseFIPS"
                                },
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                        }
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                    "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
                    "type": "error"
                },
                {

"conditions": [
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                            "fn": "booleanEquals",
                            "argv": [
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                                    "ref": "UseDualStack"
                                },
                                true
                            ]
                        }
                    ],
                    "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                    "type": "error"
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                    },
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ]
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                "fn": "isSet",
                "argv": [
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                        "ref": "Region"
                    }
                ]
            }
        ],
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        "rules": [
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                "conditions": [
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                        "argv": [
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                                "ref": "Region"
                            }
                        ],
                        "assign": "PartitionResult"
                    }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    {
                                        "ref":
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"UseFIPS"

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                    },
                    true
                ]
            },
            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseDualStack"
                    },
                    true
                ]
            }
        ],
        "type": "tree",
        "rules": [
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                "conditions": [
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                        "argv": [
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                            {
                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsFIPS"
                                ]

                }
                        ]
                    },
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
                            {
                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
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"supportsDualStack"

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                                ]
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                    }
                ]
            }
        ],
        "type": "tree",
        "rules": [
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                "conditions": [],
                "endpoint": {
                    "url": "https://license-manager-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                    "properties": {},
                    "headers": {}

        },
                "type": "endpoint"
            }
        ]
    },
    {
        "conditions": [],
        "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
        "type": "error"
    }
]
},
{
    "conditions": [
        {
            "fn": "booleanEquals",

    "argv": [
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                    "ref": "UseFIPS"
                },
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        }
    ],
    "type": "tree",
    "rules": [
        {
            "conditions": [
                {
                    "fn": "booleanEquals",
                    "argv": [
                        true,
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{
                "fn": "getAttr",
                "argv": [
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                    "ref": "PartitionResult"
                  },
                  "supportsFIPS"
                ]
              }
            ]
          }
        ],
        "type": "tree",
        "rules": [

{
            "conditions": [],
            "endpoint": {
              "url": "https://license-manager-fips.{Region}.{PartitionResult#dnsSuffix}",
              "properties": {},
              "headers": {}
            },
            "type": "endpoint"
          }
        ]
      },
      {
        "conditions": [],
        "error": "FIPS is enabled but this
partition does not support FIPS",
        "type": "error"
      }
    ]
  },
  {
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          {
            "ref": "UseDualStack"
          },
          true
        ]
      }
    ],
    "type": "tree",
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                "rules": [
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                    "conditions": [
                      {
                        "fn": "booleanEquals",
                        "argv": [
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                          {
                            "fn": "getAttr",
                            "argv": [
                              {
                                "ref": "PartitionResult"
                              },

"supportsDualStack"
                            ]
                          }
                        ]
                      }
                    ],
                    "type": "tree",
                    "rules": [
                      {
                        "conditions": [],
                        "endpoint": {
                          "url": "https://license-
manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
                          "properties": {},
                          "headers": {}

                },
                        "type": "endpoint"
                      }
                    ]
                  },
                  {
                    "conditions": [],
                    "error": "DualStack is enabled but this partition does not support DualStack",
                    "type": "error"
                  }
                ]
              },
              {
                "conditions": [],
                "endpoint": {
                  "url": "https://license-manager.{Region}.{PartitionResult#dnsSuffix}",
                   "properties": {},
                  "headers": {}
```

```
                    },
                    "type": "endpoint"
                }
            ]
        }
    ]
},
{
    "conditions": [],
    "error": "Invalid Configuration: Missing Region",
    "type": "error"
}
]
},
"smithy.rules#endpointTests": {
    "testCases": [
        {
            "documentation": "For region af-south-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint":
{
                    "url": "https://license-manager.af-south-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "af-south-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.ap-east-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "ap-east-1",
                "UseFIPS": false,
                "UseDualStack": false
             }
        },
        {
            "documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.ap-northeast-1.amazonaws.com"
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            }
        },
        "params": {
            "Region": "ap-northeast-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.ap-northeast-2.amazonaws.com"
             }
        },
        "params": {
            "Region": "ap-northeast-2",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.ap-northeast-3.amazonaws.com"
            }
        },
        "params": {
            "Region": "ap-northeast-3",
            "UseFIPS": false,
            "UseDualStack": false
        }

},
    {
        "documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.ap-south-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "ap-south-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
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        {
          "documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ap-southeast-1.amazonaws.com"

}
          },
          "params": {
            "Region": "ap-southeast-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ap-southeast-2.amazonaws.com"
            }
          },
          "params": {
            "Region": "ap-southeast-2",
            "UseFIPS": false,
            "UseDualStack": false
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"documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ap-southeast-3.amazonaws.com"
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          "params": {
            "Region": "ap-southeast-3",
            "UseFIPS": false,
            "UseDualStack": false
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          "documentation": "For region ca-central-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ca-central-1.amazonaws.com"
            }
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"params": {
"Region": "ca-central-1",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
"expect": {
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"url": "https://license-manager.eu-central-1.amazonaws.com"
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"params": {
"Region": "eu-central-1",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region eu-north-1 with FIPS
disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-north-1.amazonaws.com"
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"params": {
"Region": "eu-north-1",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-south-1.amazonaws.com"
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"params": {
"Region":
"eu-south-1",
"UseFIPS": false,
"UseDualStack": false
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        {
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            "endpoint": {
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            }
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          "params": {
            "Region": "eu-west-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
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          "documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
          "expect": {

          "endpoint": {
              "url": "https://license-manager.eu-west-2.amazonaws.com"
            }
          },
          "params": {
            "Region": "eu-west-2",
            "UseFIPS": false,
            "UseDualStack": false
          }
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        {
          "documentation": "For region eu-west-3 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.eu-west-3.amazonaws.com"
            }
          },
          "params": {
            "Region": "eu-west-3",
            "UseFIPS": false,

"UseDualStack": false
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          "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.me-south-1.amazonaws.com"
            }
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"params": {
"Region": "me-south-1",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.sa-east-1.amazonaws.com"
}
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"params": {
"Region": "sa-east-1",
"UseFIPS": false,
"UseDualStack": false
}
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{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-east-1.amazonaws.com"
}
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"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-east-1.amazonaws.com"
}
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"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
}
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{
"documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",

"expect": {
"endpoint": {
"url": "https://license-manager.us-east-2.amazonaws.com"
}

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"params": {
"Region": "us-east-2",
"UseFIPS": false,
"UseDualStack": false
}
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{
"documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-east-2.amazonaws.com"
}
},
"params": {
"Region": "us-east-2",
"UseFIPS": true,
"UseDualStack": false
}
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"documentation": "For region
us-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-west-1.amazonaws.com"
}
},
"params": {
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"UseFIPS": false,
"UseDualStack": false
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},
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"documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
"expect": {
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"url": "https://license-manager-fips.us-west-1.amazonaws.com"
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"params": {

"Region": "us-west-1",
"UseFIPS": true,
"UseDualStack": false
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{
"documentation": "For region us-west-2 with FIPS disabled and DualStack disabled",
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"params": {
"Region": "us-west-2",
"UseFIPS": false,
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"UseFIPS": true,
"UseDualStack": false
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"expect": {
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"url": "https://license-manager-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,

"UseDualStack": true
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{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",

"expect": {
"endpoint": {
"url": "https://license-manager.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
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"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url":
"https://license-manager.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
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"documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
}
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"params": {
"Region": "cn-northwest-1",
"UseFIPS": false,
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"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
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            "UseFIPS": true,
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        "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
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                "url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
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        "params": {
            "Region": "cn-north-1",
            "UseFIPS": true,
            "UseDualStack": false
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        "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
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        "params": {
            "Region": "cn-north-1",
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            "UseDualStack": true
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        "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.us-gov-east-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
            "UseDualStack": false
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    {
        "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
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"url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
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"params": {
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"UseDualStack": false
}
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{
"documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-gov-west-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-west-1",
"UseFIPS": false,
"UseDualStack": false
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"UseDualStack": false
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}
},

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"UseDualStack": true

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            }
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            "expect": {
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                }
            },
            "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack
disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
                }
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": true,
                 "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
                }
            },
            "params": {
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"Region": "us-iso-east-1",
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"UseDualStack": false
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"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled
but this partition does not support DualStack"
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"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": true
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"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
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"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
}
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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"UseFIPS": true,
"UseDualStack": true
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
}

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                    "UseDualStack": false
                }
            },
            {
                "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
                "expect": {
                    "error": "DualStack is enabled but this partition does not support DualStack"
                },
                "params": {
                    "Region": "us-isob-east-1",
                    "UseFIPS": false,
                    "UseDualStack": true
                }
            },
            {
                "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

    "expect": {
                    "endpoint": {
                        "url": "https://example.com"
                    }
                },
                "params": {
                    "Region": "us-east-1",
                    "UseFIPS": false,
                    "UseDualStack": false,
                    "Endpoint": "https://example.com"
                }
            },
            {
                "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",
                "expect": {
                    "endpoint": {
                        "url": "https://example.com"
                    }
                },
                "params": {
                    "UseFIPS": false,

        "UseDualStack": false,
                    "Endpoint": "https://example.com"
                }
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                },
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                    "documentation": "For custom endpoint with fips enabled and dualstack disabled",
                    "expect": {
                        "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
                    },
                    "params": {
                        "Region": "us-east-1",
                        "UseFIPS": true,
                        "UseDualStack": false,
                        "Endpoint": "https://example.com"
                    }
                },
                {
                    "documentation": "For custom endpoint with fips disabled and dualstack enabled",
                    "expect": {
                        "error":
"Invalid Configuration: Dualstack and custom endpoint are not supported"
                    },
                    "params": {
                        "Region": "us-east-1",
                        "UseFIPS": false,
                        "UseDualStack": true,
                        "Endpoint": "https://example.com"
                    }
                },
                {
                    "documentation": "Missing region",
                    "expect": {
                        "error": "Invalid Configuration: Missing Region"
                    }
                }
            ],
            "version": "1.0"
        }
    }
},
"com.amazonaws.licensemanager#AcceptGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#AcceptGrantRequest"

},
    "output": {
        "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
    },
    "errors": [
        {
```

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            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"

}
    ],
    "traits": {
        "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
    }
  },
  "com.amazonaws.licensemanager#AcceptGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
  },
  "com.amazonaws.licensemanager#AcceptGrantResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant
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ARN. "
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": " Grant status. "
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": " Grant version. "
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#AccessDeniedException": {
        "type": "structure",
        "members": {
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "aws.protocols#awsQueryError": {

"code": "ServiceAccessDenied",
            "httpResponseCode": 401
          },
          "smithy.api#documentation": " Access to resource denied. ",
          "smithy.api#error": "client",
          "smithy.api#httpError": 401
        }
      },
      "com.amazonaws.licensemanager#ActivationOverrideBehavior": {
        "type": "enum",
        "members": {
          "DISTRIBUTED_GRANTS_ONLY": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
            }
          },
          "ALL_GRANTS_PERMITTED_BY_ISSUER": {

"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
}
}
}
},
"com.amazonaws.licensemanager#AllowedOperation": {

"type": "enum",
"members": {
"CREATE_GRANT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CreateGrant"
}
},
"CHECKOUT_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckoutLicense"
}
},
"CHECKOUT_BORROW_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckoutBorrowLicense"
}
},
"CHECK_IN_LICENSE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CheckInLicense"
}
},
"EXTEND_CONSUMPTION_LICENSE":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ExtendConsumptionLicense"
}
},
"LIST_PURCHASED_LICENSES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ListPurchasedLicenses"
}
},

"CREATE_TOKEN": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "CreateToken"
}
}
}
},
"com.amazonaws.licensemanager#AllowedOperationList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#AllowedOperation"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max":
7
}
}
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"com.amazonaws.licensemanager#Arn": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 2048
},
"smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
}
},
"com.amazonaws.licensemanager#ArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
}
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"com.amazonaws.licensemanager#AuthorizationException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError":

{
"code": "AuthorizationFailure",
"httpResponseCode": 403
},
"smithy.api#documentation": " The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n policy associated with this account. ",
"smithy.api#error": "client",
"smithy.api#httpError": 403
}
},
"com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
"type": "structure",
"members": {
"LastRunTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time that automated discovery last ran. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes automated discovery. "
}
},

"com.amazonaws.licensemanager#Boolean": {
"type": "boolean",
"traits": {
"smithy.api#default": false
}
},
"com.amazonaws.licensemanager#BorrowConfiguration": {
"type": "structure",
"members": {
"AllowEarlyCheckIn": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether early check-ins are allowed. ",
"smithy.api#required": {}
}
},
"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the borrow configuration, in minutes. ",
"smithy.api#required": {}
}
}

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},
        "traits": {
            "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#BoxBoolean": {
        "type": "boolean"
    },
    "com.amazonaws.licensemanager#BoxInteger": {
        "type": "integer"
    },
    "com.amazonaws.licensemanager#BoxLong": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#CheckInLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"

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            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
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            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseRequest":
{
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
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    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicense":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members":
{
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
                    "smithy.api#required": {}
                }
```

```
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
                    "smithy.api#required": {}
                }
            },
            "DigitalSignatureMethod": {
                "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
                "traits": {
                    "smithy.api#documentation": "<p>Digital signature method. The possible
 value is JSON Web Signature (JWS) algorithm PS384.\n        For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>",
                    "smithy.api#required": {}
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation":
 "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
```

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed":
{
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " Allowed license entitlements. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"SignedToken": {
"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout
is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
}
},

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target":
"com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks out the specified license. \n <note>\n If the
account that created the license is the same that is performing the check out, you must\n specify the account

as the beneficiary. \n </note>"
  }
},
"com.amazonaws.licensemanager#CheckoutLicenseRequest": {
  "type": "structure",
  "members": {
    "ProductSKU": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": " Product
 SKU. ",
        "smithy.api#required": {}
      }
    },
    "CheckoutType": {
      "target": "com.amazonaws.licensemanager#CheckoutType",
      "traits": {
        "smithy.api#documentation": " Checkout type. ",
        "smithy.api#required": {}
      }
    },
    "KeyFingerprint": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": " Key fingerprint identifying the license. ",
        "smithy.api#required": {}
      }
    },
    "Entitlements": {
      "target": "com.amazonaws.licensemanager#EntitlementDataList",
      "traits": {
        "smithy.api#documentation": " License entitlements. ",

"smithy.api#required": {}
      }
    },
    "ClientToken": {
      "target": "com.amazonaws.licensemanager#ClientToken",
      "traits": {
        "smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request. ",
        "smithy.api#required": {}
      }
    },
    "Beneficiary": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": " License beneficiary. "

```
            }
        },
        "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        }
    },
    "traits": {

   "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
    "type": "structure",
    "members": {
        "CheckoutType": {
            "target": "com.amazonaws.licensemanager#CheckoutType",
            "traits": {
                "smithy.api#documentation": "<p>Checkout type.</p>"
            }
        },
        "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
            }
        },
        "EntitlementsAllowed": {
            "target": "com.amazonaws.licensemanager#EntitlementDataList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
            }
        },
         "SignedToken": {
            "target": "com.amazonaws.licensemanager#SignedToken",
            "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
            }
        },
        "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        },
        "IssuedAt": {
```

"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and
time at which the license checkout expires. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the checkout license. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutType": {
"type": "enum",
"members": {
"PROVISIONAL": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PROVISIONAL"
}
},
"PERPETUAL": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PERPETUAL"
}
}
}
},
"com.amazonaws.licensemanager#ClientRequestToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 36
}
}

```
    },
    "com.amazonaws.licensemanager#ClientToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 2048
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
    "com.amazonaws.licensemanager#ConflictException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ConflictException",
                "httpResponseCode":
 409
            },
            "smithy.api#documentation": "<p>There was a conflict processing the request. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 409
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
                }
            },
            "ConsumedLicenses": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
                }
            }
        },
```

"traits": {
"smithy.api#documentation": " Details about license consumption. "
}
},
"com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
}
},
"com.amazonaws.licensemanager#ConsumptionConfiguration": {
"type": "structure",
"members": {
"RenewType": {
"target": "com.amazonaws.licensemanager#RenewType",
"traits": {
"smithy.api#documentation": " Renewal frequency. "
}
},
"ProvisionalConfiguration": {
"target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"BorrowConfiguration": {
"target": "com.amazonaws.licensemanager#BorrowConfiguration",
"traits": {
"smithy.api#documentation": " Details about a borrow configuration. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a consumption configuration. "
}
},
"com.amazonaws.licensemanager#CreateGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

{
"target":
"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a grant for the specified license. A grant shares the use of license\n entitlements with a specific Amazon Web Services account, an organization, or an\n organizational unit (OU). For more
information, see Granted licenses in License Manager in the License Manager User Guide. "
}
},
"com.amazonaws.licensemanager#CreateGrantRequest": {
"type": "structure",
"members": {
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}

}
},
"LicenseArn": {

"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Principals": {
"target": "com.amazonaws.licensemanager#PrincipalArnList",
"traits": {
"smithy.api#documentation": " The grant principals. You can specify one of the following as an Amazon Resource Name\n (ARN): \n \n \n An Amazon Web Services account, which includes only the account specified. \n \n \n \n \n An organizational unit (OU), which includes all accounts in the OU. \n \n \n \n \n An organization, which will include all accounts across your organization. \n \n ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},

"com.amazonaws.licensemanager#CreateGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},

```
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersion":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
             },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
```

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information,
see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",

  "smithy.api#required": {}
                }
            },
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>"
                }
            },
            "AllowedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                 "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status reason.</p>"
```

```
            }
        },
        "SourceVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Current version of the grant.</p>"
            }
        },
        "Options": {
            "target": "com.amazonaws.licensemanager#Options",
            "traits": {
                "smithy.api#documentation": "<p>The options specified for the grant.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>New version of the grant.</p>"
            }
        }
    },
    "traits":
{
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicense": {
    "type": "operation",
```

```
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a license.</p>"
    }
},
"com.amazonaws.licensemanager#CreateLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license configuration.</p>\n        <p>A license configuration is an abstraction of a customer license agreement that can be\n        consumed and enforced by License Manager. Components include specifications for the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n        Dedicated Instance, Dedicated Host, or all of these), license affinity  to host (how long a \n        license must be associated with a host), and the number of licenses purchased and used.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the license configuration.</p>"
                }
            },
            "LicenseCountingType": {
                "target": "com.amazonaws.licensemanager#LicenseCountingType",
                "traits": {
                    "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
```

"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows. \n \n \n \n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n <code>licenseAffinityToHost</code> |\n <code>maximumCores</code> | <code>minimumCores</code>\n \n \n \n \n <code>Instances</code> dimension: <code>allowedTenancy</code> | \n <code>maximumCores</code> | <code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n
\n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n <code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code>\n \n \n \n \n <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n <code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n \n The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>. "
}
},

"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the license configuration. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "

```
                }
            },
            "ProductInformationList": {
                "target": "com.amazonaws.licensemanager#ProductInformationList",
                "traits": {
                    "smithy.api#documentation": "<p>Product information.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse":
{
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {

                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting
from. \n\n        For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            },
            "DestinationLicenseContext":
 {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting to.
For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
```

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    }
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
    "type": "structure",
    "members": {
        "LicenseConversionTaskId": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

   "traits": {
                "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
         },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
```

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a report generator. "
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"ReportGeneratorName":
{
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types an be generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}

}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " Defines the type of license configuration the report generator tracks. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",

"traits": {
"smithy.api#documentation": " Unique,
case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the new report
generator. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseRequest": {
"type": "structure",
"members": {
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}

},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product
name. ",
"smithy.api#required": {}
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits": {
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region for the license. ",
"smithy.api#required": {}

}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-
UTC format. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},

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        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
    }
```

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    },
    "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target":
"com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "LicenseName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License name.</p>",
            "smithy.api#required": {}
          }
        },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product name.</p>",
            "smithy.api#required": {}
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#Issuer",
          "traits":
{
            "smithy.api#documentation": "<p>License issuer.</p>",
            "smithy.api#required": {}
          }
        },
        "HomeRegion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Home Region of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "Validity": {
          "target": "com.amazonaws.licensemanager#DatetimeRange",
          "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
            "smithy.api#required": {}
          }
```

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            },
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license.</p>"
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",
                    "smithy.api#required": {}
                }
            },
            "ConsumptionConfiguration": {
                "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n         running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n         usage.</p>",
                    "smithy.api#required": {}
                }
            },

   "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>",
                    "smithy.api#required": {}
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>"
                }
            }
        },
        "traits": {
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"smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": " License ARN. "
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " New version of the license. "
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": " License status. "
                }
            }
        },
        "traits": {
            "smithy.api#output":
{}
        }
    },
    "com.amazonaws.licensemanager#CreateToken": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateTokenResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },

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            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },

        {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a long-lived token.</p>\n        <p>A refresh token is a JWT token used to get an access token. With an access token,\n        you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n        call License Manager to manage the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateTokenRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits":
 {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n        JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "RoleArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n        License Manager does not check whether the roles are in use.</p>"
                }
            },
            "ExpirationInDays": {
                "target": "com.amazonaws.licensemanager#Integer",
                "traits": {
                    "smithy.api#documentation": "<p>Token expiration, in days, counted from token creation. The default is 365 days.</p>"
                }
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            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Data specified by the caller to be included in the JWT token. The
data is mapped\n          to the amr claim of the JWT token.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Idempotency token, valid for 10 minutes.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateTokenResponse": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",

                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
            "TokenType": {
                "target": "com.amazonaws.licensemanager#TokenType",
                "traits": {
                    "smithy.api#documentation": "<p>Token type.</p>"
                }
            },
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DateTime": {
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    "type": "timestamp"
  },
  "com.amazonaws.licensemanager#DatetimeRange": {
    "type": "structure",
    "members": {
      "Begin": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
          "smithy.api#documentation": "<p>Start of the time range.</p>",
          "smithy.api#required": {}
        }
      },
      "End": {
        "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
          "smithy.api#documentation": "<p>End of the time range.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
    }
  },
  "com.amazonaws.licensemanager#DeleteGrant": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
     },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
      },
      {
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"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes
the specified grant. "
}
},
"com.amazonaws.licensemanager#DeleteGrantRequest": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " The Status reason for the delete request. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the
grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}

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            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
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"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license configuration. \n You cannot delete a license configuration that is in use. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
"type": "structure",
"members":
{
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

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            "smithy.api#documentation": "<p>ID of the license configuration.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
       },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
```

}
],
"traits": {
"smithy.api#documentation": " Deletes the specified report generator. \n This action deletes the report generator, which stops it from generating future reports.\n The action cannot be reversed. It has no effect on the previous reports from this generator. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to be deleted. ",
"smithy.api#required": {}
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. ",
"smithy.api#required":

{}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseResponse": {
"type": "structure",
"members": {
"Status": {
"target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"DeletionDate": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date when the license is deleted. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"

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            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },

    {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}

      }
    },
    "com.amazonaws.licensemanager#DigitalSignatureMethod": {
        "type": "enum",
        "members": {
            "JWT_PS384": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "JWT_PS384"
                }
```

```
            }
        }
    },
    "com.amazonaws.licensemanager#Entitlement": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement name.</p>",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement resource. Use only
if the unit is None.</p>"
                }
            },
            "MaxCount": {
                "target": "com.amazonaws.licensemanager#Long",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
                }
            },
            "Overage": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether overages are allowed.</p>"
                }
            },
            "Unit": {
                "target": "com.amazonaws.licensemanager#EntitlementUnit",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement unit.</p>",
                    "smithy.api#required": {}
                }
            },
            "AllowCheckIn": {
                "target":
"com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether check-ins are allowed.</p>"
                }
            }
        },
        "traits": {
```

"smithy.api#documentation": " Describes a resource entitled for use with a license. "
}
},
"com.amazonaws.licensemanager#EntitlementData": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement
data value. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {
"smithy.api#documentation": " Entitlement data unit. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Data associated with an entitlement resource. "
}
},
"com.amazonaws.licensemanager#EntitlementDataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#EntitlementData"
}
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
"type": "enum",
"members": {
"COUNT": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Count"
}
},

"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"SECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Seconds"
}
},
"MICROSECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Microseconds"
}
},
"MILLISECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Milliseconds"
}
},
"BYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes"
}
},
"KILOBYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes"
}
},
"MEGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes"
}
},
"GIGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes"
}
},

"TERABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS":
{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"

}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"

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            }
        },
        "KILOBYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes/Second"
            }
        },
        "MEGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes/Second"
            }
        },
        "GIGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Gigabytes/Second"
            }
        },
        "TERABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabytes/Second"
            }
        },
        "BITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bits/Second"
            }
        },
        "KILOBITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobits/Second"
            }
        },
        "MEGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue":
"Megabits/Second"
            }
        },
        "GIGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
```

"smithy.api#enumValue": "Gigabits/Second"
}
},
"TERABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits/Second"
}
},
"COUNT_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count/Second"
}
}
}
},
"com.amazonaws.licensemanager#EntitlementList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Entitlement"
}
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The entitlement is not allowed. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#EntitlementUnit": {
"type": "enum",
"members": {
"COUNT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Count"
}
},
"NONE": {
"target": "smithy.api#Unit",

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            "traits": {
                "smithy.api#enumValue": "None"
            }
        },
        "SECONDS":
{
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Seconds"
            }
        },
        "MICROSECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Microseconds"
            }
        },
        "MILLISECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Milliseconds"
            }
        },
        "BYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bytes"
            }
        },
        "KILOBYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes"
             }
        },
        "MEGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes"
            }
        },
        "GIGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabytes"
            }
        },
        "TERABYTES": {
```

"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"
}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target":
"smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"
}

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            },
            "KILOBYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Kilobytes/Second"
                }
            },
            "MEGABYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Megabytes/Second"
                }
            },
            "GIGABYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Gigabytes/Second"
                }
            },
            "TERABYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {

"smithy.api#enumValue": "Terabytes/Second"
                }
            },
            "BITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Bits/Second"
                }
            },
            "KILOBITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Kilobits/Second"
                }
            },
            "MEGABITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Megabits/Second"
                }
            },
            "GIGABITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Gigabits/Second"
```

```
            }
        },

    "TERABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits/Second"
            }
        },
        "COUNT_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Count/Second"
            }
        }
    }
},
"com.amazonaws.licensemanager#EntitlementUsage": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                "smithy.api#required": {}
            }
        },
        "ConsumedValue": {
            "target": "com.amazonaws.licensemanager#String",

        "traits": {
                "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxCount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                "smithy.api#required": {}
            }
        }
```

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        },
        "traits": {
            "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementUsageList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
```

"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",
"smithy.api#required": {}

}
},
"DryRun": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#default": false,
"smithy.api#documentation": " Checks whether you have the required permissions for the action, without actually making the request. Provides an error response if you do not have the required permissions. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},

"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license consumption expires. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#FailedDependencyException": {
"type": "structure",
"members": {
"Message": {

"target": "com.amazonaws.licensemanager#Message"
},
"ErrorCode": {
"target": "com.amazonaws.licensemanager#String"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FailedDependency",
"httpResponseCode": 424
},
"smithy.api#documentation":
" A dependency required to run the API is missing. ",
"smithy.api#error": "client",
"smithy.api#httpError": 424
}
},
"com.amazonaws.licensemanager#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#FilterName",
"traits": {
"smithy.api#documentation": " Name of the filter. Filter names are case-sensitive. "
}
},
"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " The value of the filter, which is case-sensitive. You can only
specify one value for the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter
name and value pair that is used to return more specific results from a\n describe operation. Filters can be used
to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {

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        "aws.protocols#awsQueryError": {
            "code": "FilterLimitExceeded",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#FilterList": {
    "type": "list",
     "member": {
        "target": "com.amazonaws.licensemanager#Filter"
    }
},
"com.amazonaws.licensemanager#FilterName": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#FilterValue",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#Filters": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Filter",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#GetAccessToken": {
    "type": "operation",
    "input": {
         "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
    },
    "errors": [
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            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access
 tokens\n          are valid for one hour.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenRequest": {
        "type": "structure",
        "members": {
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT
token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenResponse":
 {
        "type": "structure",
        "members": {
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        "AccessToken": {
            "target": "com.amazonaws.licensemanager#TokenString",
            "traits": {
                "smithy.api#documentation": "<p>Temporary access token.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"

    },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
```

"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetGrantResponse": {
"type": "structure",
"members": {
"Grant": {
"target": "com.amazonaws.licensemanager#Grant",
"traits": {
"smithy.api#documentation": " Grant details. "
}
}
},
"traits": {

"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"

},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license configuration. "

```
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits":
 {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            },
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>"
                 }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Description of the license configuration.</p>"
                }
            },
            "LicenseCountingType": {
                "target": "com.amazonaws.licensemanager#LicenseCountingType",
```

"traits": {
"smithy.api#documentation": " Dimension for which the licenses are counted. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",

"traits": {
"smithy.api#documentation": " Number of available licenses. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Sets the number of available licenses as a hard limit. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses assigned to resources. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License configuration status. "
}

},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},

"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When
true, disassociates a resource when software is uninstalled. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified license type conversion task. "
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. "

```
            }
        },
        "SourceLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information
about the license type converted from.</p>"
            }
        },
        "DestinationLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license type converted to.</p>"
            }
        },
        "StatusMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
            "traits": {
                "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
            }
        },

  "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
            }
        },
        "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
            }
        },
        "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
            }
        }
    },
```

```
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

         },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. ",
"smithy.api#required":
{}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"ReportGenerator": {
"target": "com.amazonaws.licensemanager#ReportGenerator",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic reports about your license configurations. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#input": {}
}

```
    },
    "com.amazonaws.licensemanager#GetLicenseResponse": {
        "type": "structure",
        "members": {
            "License": {
                "target": "com.amazonaws.licensemanager#License",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },

"com.amazonaws.licensemanager#GetLicenseUsage": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

"target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
        }
```

```
    },
    "com.amazonaws.licensemanager#GetLicenseUsageRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageResponse": {
      "type": "structure",
      "members": {
        "LicenseUsage": {
          "target":
"com.amazonaws.licensemanager#LicenseUsage",
          "traits": {
            "smithy.api#documentation": "<p>License usage details.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets the License Manager settings for the current Region. "
}
},
"com.amazonaws.licensemanager#GetServiceSettingsRequest": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Regional S3 bucket path for storing reports, license trail event data, discovery data,\n and so on. "

}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " SNS topic configured to receive notifications from License Manager. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Indicates whether Organizations is integrated with License Manager for\n cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether cross-account discovery is enabled. "
}

```
        },
            "LicenseManagerResourceShareArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
Manager management account \n        provides member accounts with access to this share.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Grant": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {

 "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ParentArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Parent ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>License ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "GranteePrincipalArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
```

"smithy.api#documentation": " The grantee principal ARN. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. ",
"smithy.api#required": {}
}
},
"GrantedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Granted operations. ",
"smithy.api#required": {}
}
},
"Options": {
"target": "com.amazonaws.licensemanager#Options",
"traits": {
"smithy.api#documentation": " The options specified for the grant. "
}
}
},
"traits": {
"smithy.api#documentation":

" Describes a grant. "
        }
    },
    "com.amazonaws.licensemanager#GrantList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Grant"
        }
    },
    "com.amazonaws.licensemanager#GrantStatus": {
        "type": "enum",
        "members": {
            "PENDING_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_WORKFLOW"
                }
            },
            "PENDING_ACCEPT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_ACCEPT"
                }
            },
            "REJECTED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "REJECTED"

            }
            },
            "ACTIVE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "ACTIVE"
                }
            },
            "FAILED_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "FAILED_WORKFLOW"
                }
            },
            "DELETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DELETED"
                }

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            },
            "PENDING_DELETE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_DELETE"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                "traits":
{
                    "smithy.api#enumValue": "DISABLED"
                }
            },
            "WORKFLOW_COMPLETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "WORKFLOW_COMPLETED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GrantedLicense": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>"
                }

  },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product name.</p>"
                }
            },
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>"
```

```
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>Granted license issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the granted license.</p>"

         }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>Granted license status.</p>"
            }
        },
        "Validity": {
            "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {
                "smithy.api#documentation": "<p>Date and time range during which the granted license is valid, in
ISO8601-UTC format.</p>"
            }
        },
        "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Granted license beneficiary.</p>"
            }
        },
        "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
             "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>"
            }
        },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
            }
        },
        "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
```

"traits": {
"smithy.api#documentation": " Granted license metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Creation time of the granted license. "

}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Version of the granted license. "
}
},
"ReceivedMetadata": {
"target": "com.amazonaws.licensemanager#ReceivedMetadata",
"traits": {
"smithy.api#documentation": " Granted license received metadata. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a license that is granted to a grantee. "
}
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#GrantedLicense"
}
},
"com.amazonaws.licensemanager#ISO8601DateTime":
{
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
}
},
"com.amazonaws.licensemanager#Integer": {
"type": "integer"

```
    },
    "com.amazonaws.licensemanager#InvalidParameterValueException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidParameterValueProvided",
                "httpResponseCode": 400
            },
            "smithy.api#documentation":
 "<p>One or more parameter values are not valid.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InvalidResourceStateException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidResourceState",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n        <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },

    "com.amazonaws.licensemanager#InventoryFilter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the filter.</p>",
                    "smithy.api#required": {}
                }
```

```
        },
        "Condition": {
            "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
            "traits": {
                "smithy.api#documentation": "<p>Condition of the filter.</p>",
                "smithy.api#required": {}
            }
        },
        "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Value of the filter.</p>"
            }
        }

    },
    "traits": {
        "smithy.api#documentation": "<p>An inventory filter.</p>"
    }
  },
  "com.amazonaws.licensemanager#InventoryFilterCondition": {
    "type": "enum",
    "members": {
        "EQUALS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EQUALS"
            }
        },
        "NOT_EQUALS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "NOT_EQUALS"
            }
        },
        "BEGINS_WITH": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "BEGINS_WITH"
            }
        },
        "CONTAINS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "CONTAINS"
            }
        }
    }
```

},
"com.amazonaws.licensemanager#InventoryFilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#InventoryFilter"
}
},
"com.amazonaws.licensemanager#Issuer": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. ",
"smithy.api#required": {}
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage
of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about the issuer of a license. "
}
},
"com.amazonaws.licensemanager#IssuerDetails": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. "
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
},
"KeyFingerprint": {

```
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
    }
},
"com.amazonaws.licensemanager#License": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

       "smithy.api#documentation": "<p>License name.</p>"
            }
        },
        "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product name.</p>"
            }
        },
        "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product SKU.</p>"
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>License issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Home Region of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"Entitlements": {

"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " License metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License creation time. "
}
},

```
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
    "type": "structure",
    "members": {
        "LicenseConfigurationId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
            }
        },
        "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
        },
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the license configuration.</p>"
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
                "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
             }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules.</p>"
```

```
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Number of available licenses as a hard limit.</p>"
            }
        },
        "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
             "traits": {
                "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses consumed. </p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Status of the license configuration.</p>"
            }
        },
        "OwnerAccountId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Account ID of the license configuration's owner.</p>"

        }
        },
        "ConsumedLicenseSummaryList": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Summaries for licenses consumed by various resources.</p>"
            }
        },
        "ManagedResourceSummaryList": {
            "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
```

"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {

"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource consuming licenses. "
}

```
            },
            "AssociationTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {

    "smithy.api#documentation": "<p>Time when the license configuration was associated with the resource.</p>"
                }
            },
            "AmiAssociationScope": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes an association with a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
        "type": "enum",
        "members":
{
            "AVAILABLE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "AVAILABLE"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DISABLED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
        "type": "structure",
        "members": {
            "ResourceArn": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits":
{
"smithy.api#documentation": " Type of resource. "
}
},
"ResourceStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was initially associated with the resource. "
}
},

"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"

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        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurations": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfiguration"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionContext": {

  "type": "structure",
        "members": {
            "UsageOperation": {
                "target": "com.amazonaws.licensemanager#UsageOperation",
                "traits": {
                    "smithy.api#documentation": "<p>The Usage operation value that corresponds to the license type you
are converting your resource from.  For more information about which platforms correspond to which usage
operation values see <a href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-
fields.html#billing-info\">Sample data: usage operation by platform\n      </a>\n         </p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTask": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {

     "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the license type conversion task.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource associated
with the license type\n         conversion task.</p>"
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license type this conversion task converted
from.</p>"
```

```
            }
        },
        "DestinationLicenseContext": {
            "target":
 "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license type this conversion task converted
to.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
            "traits": {
                "smithy.api#documentation": "<p>The status of the conversion task.</p>"
            }
        },
        "StatusMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
        },
        "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation":
 "<p>The time the conversion task was started at.</p>"
            }
        },
        "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>The time the usage operation value of the resource was
changed.</p>"
            }
        },
        "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseConversionTaskId": {
```

```
        "type": "string",
        "traits": {

       "smithy.api#length": {
            "min": 0,
            "max": 50
          },
          "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
        "type": "enum",
        "members": {
          "IN_PROGRESS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "IN_PROGRESS"
            }
          },
          "SUCCEEDED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "SUCCEEDED"
            }
          },
          "FAILED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "FAILED"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTasks":
  {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#LicenseConversionTask"
        }
      },
      "com.amazonaws.licensemanager#LicenseCountingType": {
        "type": "enum",
        "members": {
          "VCPU": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "vCPU"
            }
```

```
        },
        "INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Instance"
            }
        },
        "CORE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Core"
            }
        },
        "SOCKET": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Socket"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {
    "type": "enum",
    "members": {
        "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {

    "type": "structure",
    "members": {
```

"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Resource type. "
}
},
"ErrorMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Error message. "
}
},
"FailureTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " Failure time. "
}
},
"OperationName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the operation. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource. "
}
},
"OperationRequestedBy": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The requester is \"License Manager Automated Discovery\". "
}
},
"MetadataList": {

"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {

"smithy.api#documentation": " Reserved. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the failure of a license operation. "
}
},
"com.amazonaws.licensemanager#LicenseOperationFailureList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailure"
}
},
"com.amazonaws.licensemanager#LicenseSpecification": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",

"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseSpecification"
}
},
"com.amazonaws.licensemanager#LicenseStatus": {
"type": "enum",
"members": {
"AVAILABLE": {

"target": "smithy.api#Unit",

"traits": {
"smithy.api#enumValue": "AVAILABLE"
}
},
"PENDING_AVAILABLE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_AVAILABLE"
}
},
"DEACTIVATED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DEACTIVATED"
}
},
"SUSPENDED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SUSPENDED"
}
},
"EXPIRED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "EXPIRED"
}
},

"PENDING_DELETE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_DELETE"
}
},
"DELETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DELETED"
}
}
}
},
"com.amazonaws.licensemanager#LicenseUsage": {
"type": "structure",
"members": {

"EntitlementUsages": {
"target": "com.amazonaws.licensemanager#EntitlementUsageList",
"traits": {
"smithy.api#documentation": " License entitlement usages. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the entitlement usage associated with a license. "

}
},
"com.amazonaws.licensemanager#LicenseUsageException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "LicenseUsageFailure",
"httpResponseCode": 412
},
"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the resource associations for the
 specified license configuration.</p>\n        <p>Resource associations need not consume licenses from a license
configuration. \n        For example, an AMI or a stopped instance might not consume a license (depending on \n
the license rules).</p>"
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results
 to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
        "type": "structure",
```

"members": {
"LicenseConfigurationAssociations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license configuration. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the grants distributed for the specified license. "
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranteePrincipalARN</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",

"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",

"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configuration operations that failed. "
}

```
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse":
{
        "type": "structure",
        "members": {
            "LicenseOperationFailureList": {
                "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
                "traits": {
                    "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
```

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    },
    "com.amazonaws.licensemanager#ListLicenseConfigurations": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },

    "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations
 for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
```

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next
set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters and logical
operators\n are supported: \n \n \n \n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n
\n <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>. \n
\n \n \n <code>usagelimitExceeded</code> - A Boolean value that
indicates whether the available licenses have been exceeded. \n Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
"type": "structure",
"members": {
"LicenseConfigurations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurations",
"traits": {
"smithy.api#documentation": " Information about the license configurations. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasks": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license type conversion tasks for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
"type": "structure",
"members": {
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}

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            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>\n        Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n      </p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTasks": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configuration tasks for your
 account.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
```

"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the report generators for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest":
{
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported:
\n \n \n \n <code>LicenseConfigurationArn</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits":
{
"smithy.api#documentation": " Maximum number of results to return in a single call. "

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            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
          "ReportGenerators": {
            "target": "com.amazonaws.licensemanager#ReportGeneratorList",
            "traits": {
              "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }

        }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
```

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Describes the license configurations for the specified resource. "
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a resource that has an associated license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {
"LicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " License configurations associated with a resource. "
}
},

```
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
```

```
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
              "smithy.api#documentation": "<p>License details.</p>"
            }
          },

"NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenses": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicensesRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicensesResponse"
        },
```

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses for your account. "
}
},
"com.amazonaws.licensemanager#ListLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>Status</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token

for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#LicenseList",
"traits": {
"smithy.api#documentation": " License details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists grants that are received. Received grants are grants created while specifying the\n recipient as this Amazon Web Services account, your organization, or an organizational unit\n (OU) to which this member account belongs. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},

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            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants received for all accounts in the organization.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the received license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n
    <ul>\n        <li>\n            <p>\n                <code>ParentArn</code>\n            </p>\n        </li>\n
<li>\n            <p>\n                <code>GranteePrincipalArn</code>\n            </p>\n        </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
```

"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Lists the grants the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranterAccountId</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},

```
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
    "type": "structure",
    "members": {
        "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
             "traits": {
                "smithy.api#documentation": "<p>Received grant details.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
         },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists received licenses.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {

    "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
```

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses received for all accounts in the organization. "
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#GrantedLicenseList",
"traits": {
"smithy.api#documentation": " Lists the licenses the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>IssuerName</code>\n \n \n \n \n <code>Beneficiary</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
"type": "structure",

```
    "members": {
      "Licenses": {
        "target": "com.amazonaws.licensemanager#GrantedLicenseList",
        "traits": {
          "smithy.api#documentation": "<p>Received license details.</p>"
        }
      },

      "NextToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#ListResourceInventory": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#FailedDependencyException"
      },
      {
        "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
```

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                 "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#InventoryFilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>account_id</code>
- The ID of the Amazon Web Services account that owns the resource.\n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n
            </li>\n            <li>\n                <p>\n                    <code>application_name</code> - The name of the
application. \n                Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n
    </li>\n            <li>\n                <p>\n                    <code>license_included</code> - The type of license included. \n
            Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n                Possible values
are <code>sql-server-enterprise</code> | \n                <code>sql-server-standard</code> | \n                <code>sql-
server-web</code> |  \n                <code>windows-server-datacenter</code>.</p>\n            </li>\n            <li>\n
    <p>\n                    <code>platform</code> - The platform of the resource.\n                Logical operators are
<code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n            </li>\n            <li>\n                <p>\n
        <code>resource_id</code> - The ID of the resource. \n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n
      <code>tag:<key></code> - The key/value combination of a tag assigned \n                to the resource. Logical
operators are <code>EQUALS</code> (single account) or\n                <code>EQUALS</code> |
<code>NOT_EQUALS</code> (cross account).</p>\n            </li>\n        </ul>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
```

```
    "com.amazonaws.licensemanager#ListResourceInventoryResponse": {
        "type": "structure",
        "members": {
            "ResourceInventoryList": {
                "target": "com.amazonaws.licensemanager#ResourceInventoryList",
                "traits": {
                    "smithy.api#documentation": "<p>Information
about the resources.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the tags for the specified license configuration.</p>"
```

```
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the tags.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors":
[
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
            "TokenIds": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {

                  "smithy.api#documentation": "<p>Token IDs.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
    <ul>\n            <li>\n                <p>\n                <code>LicenseArns</code>\n                </p>\n            </li>\n
</ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation":
 "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
```

```
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokensResponse": {
        "type": "structure",
        "members": {
            "Tokens": {
                "target": "com.amazonaws.licensemanager#TokenList",
                "traits": {
                    "smithy.api#documentation": "<p>Received token details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying license\n        consumption details by resource at a selected point in time. Use this action to audit the\n        current license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>resourceArn</code> - The ARN of the license configuration resource.\n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>resourceAccount</code> - The ID of the account that owns the resource. \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
                }
            }
```

```
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
        "type": "structure",
        "members": {

"LicenseConfigurationUsageList": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Location": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#Long": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#ManagedResourceSummary": {
        "type": "structure",
        "members": {
            "ResourceType":
{
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
                }
            },
            "AssociationCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
                }
            }
```

```
    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {

"type": "integer",
    "traits": {
        "smithy.api#range": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The key name.</p>"
            }
        },

"Value": {
            "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " The value. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes key/value pairs. "
}
},
"com.amazonaws.licensemanager#MetadataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Metadata"
}
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#Options": {
"type": "structure",
"members": {
"ActivationOverrideBehavior": {
"target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
"traits": {
"smithy.api#documentation": " An activation option for your grant that determines the behavior of activating a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter. \n \n \n As a license administrator, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant. \n \n \n As a grantor, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your organization. \n \n \n As a grantee, if the grantor creating the distributed grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n are activating the grant. \n \n \n <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n Use this value to activate a grant without replacing any member accounts\n active grants for the same product. \n </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n Use this value to activate a

grant and disable other active grants in any\n member accounts
for the same product. This action will also replace their\n previously activated grants with this activated grant. \n </dd>\n </dl>"
}
}
},
"traits": {
"smithy.api#documentation": " The options you can specify when you create a new version of a grant, such as activation\n override behavior. For more information, see Granted licenses in License Manager in the License Manager User Guide. "
}
},
"com.amazonaws.licensemanager#OrganizationConfiguration": {
"type": "structure",
"members": {
"EnableIntegration": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#default": false,
"smithy.api#documentation": " Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n <code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n \n ",
"smithy.api#required": {}
}
}
},

```
    "traits": {
        "smithy.api#documentation": "<p>Describes product information for a license configuration.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
    "type": "structure",
    "members": {
        "ProductInformationFilterName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Filter name.</p>",
                "smithy.api#required": {}
            }
        },
        "ProductInformationFilterValue": {
            "target": "com.amazonaws.licensemanager#StringList",

      "traits": {
                "smithy.api#documentation": "<p>Filter value.</p>"
            }
        },
        "ProductInformationFilterComparator": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Logical operator.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes product information filters.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformationFilter"
    }
},
"com.amazonaws.licensemanager#ProductInformationList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformation"
     }
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
    "type": "structure",
    "members": {
```

"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the provisional configuration, in minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"com.amazonaws.licensemanager#RateLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "RateLimitExceeded",
"httpResponseCode": 429
},
"smithy.api#documentation": " Too many requests have been submitted. Try again after a brief wait. ",
"smithy.api#error": "client",
"smithy.api#httpError": 429
}
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
"type": "structure",
"members": {
"ReceivedStatus": {
"target": "com.amazonaws.licensemanager#ReceivedStatus",
"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Received status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",

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            "traits": {
                "smithy.api#documentation": "<p>Allowed operations.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Metadata associated with received licenses and grants.</p>"
    }
},
"com.amazonaws.licensemanager#ReceivedStatus": {
    "type": "enum",
    "members": {
        "PENDING_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_WORKFLOW"
            }
        },
        "PENDING_ACCEPT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue":
"PENDING_ACCEPT"
            }
        },
        "REJECTED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "REJECTED"
            }
        },
        "ACTIVE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "ACTIVE"
            }
        },
        "FAILED_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
```

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        },
        "DISABLED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DISABLED"
            }
        },
        "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#RedirectException": {
    "type": "structure",
    "members": {
        "Location": {
            "target": "com.amazonaws.licensemanager#Location",
            "traits": {
                "smithy.api#httpHeader": "Location"
            }
        },
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 308
    }
},
"com.amazonaws.licensemanager#RejectGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#RejectGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#RejectGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}

  }
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
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"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#RenewType":
{
"type": "enum",
"members": {
"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"WEEKLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Weekly"
}
},
"MONTHLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Monthly"
}
}
}
},
"com.amazonaws.licensemanager#ReportContext": {
"type": "structure",
"members": {
"licenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details of the license configuration that this generator reports on. "
}
},
"com.amazonaws.licensemanager#ReportFrequency": {
"type": "structure",
"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "
}
},
"period": {
"target": "com.amazonaws.licensemanager#ReportFrequencyType",

"traits": {
"smithy.api#documentation": " Time period between each report. The period can be daily, weekly, or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"com.amazonaws.licensemanager#ReportFrequencyType": {
"type": "enum",
"members": {
"DAY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DAY"
}
},
"WEEK": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "WEEK"
}
},

"MONTH": {
"target": "smithy.api#Unit",
"traits":
{
"smithy.api#enumValue": "MONTH"
}
}
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the report generator. "
}
},
"ReportType": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports that are generated. "
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " License
configuration type for this generator. "
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. "
}
},
"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}

},
"LastRunFailureReason":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Failure message for the last report generation attempt. "
}
},
"LastReportGenerationTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the last report was generated at. "
}
},
"ReportCreatorAccount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Web Services account ID used to create the report generator. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the report was created. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags associated with the report generator. "
}

}
},
"traits": {
"smithy.api#documentation": " Describe the details of a report generator. "
}
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportGenerator"
}
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
}
}
},
"com.amazonaws.licensemanager#ReportType": {
"type": "enum",
"members": {
"LICENSE_CONFIGURATION_SUMMARY_REPORT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "LicenseConfigurationSummaryReport"
}

},
"LICENSE_CONFIGURATION_USAGE_REPORT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "LicenseConfigurationUsageReport"
}
}
}
},
"com.amazonaws.licensemanager#ReportTypeList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportType"
}
},
"com.amazonaws.licensemanager#ResourceInventory": {
"type": "structure",
"members": {

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            "ResourceId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits":
{
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "Platform": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform of the resource.</p>"
                }
            },
            "PlatformVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
                }
            },
            "ResourceOwningAccountId":
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ResourceInventoryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ResourceInventory"
        }
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},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "ResourceLimitExceeded",

         "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>Your resource limits have been exceeded.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "InvalidResource.NotFound",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The resource cannot be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceType": {
    "type": "enum",
     "members": {
        "EC2_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_INSTANCE"
            }
        },
        "EC2_HOST": {
            "target": "smithy.api#Unit",
            "traits": {
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"smithy.api#enumValue": "EC2_HOST"
}
},
"EC2_AMI": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "EC2_AMI"
}
},
"RDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "RDS"
}
},
"SYSTEMS_MANAGER_MANAGED_INSTANCE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
}
}
}
},
"com.amazonaws.licensemanager#S3Location": {
"type": "structure",
"members": {
"bucket": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the S3 bucket reports are published to. "
}
},
"keyPrefix": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Prefix of the S3 bucket reports are published to. "
}
}
},
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
"type": "structure",
"members": {
"Message": {

"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InternalError",
"httpResponseCode": 500
},
"smithy.api#documentation": " The server experienced an internal error. Try again. ",
"smithy.api#error": "server",
"smithy.api#httpError": 500
}
},
"com.amazonaws.licensemanager#SignedToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 4096
}
}
},
"com.amazonaws.licensemanager#StatusReasonMessage": {
"type": "string",
"traits":
{
"smithy.api#length": {
"min": 0,
"max": 400
},
"smithy.api#pattern": "^[\\s\\S]+$"
}
},
"com.amazonaws.licensemanager#String": {
"type": "string"
},
"com.amazonaws.licensemanager#StringList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#String"
}
},
"com.amazonaws.licensemanager#Tag": {
"type": "structure",
"members": {
"Key": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Tag key. "

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            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation":
"<p>Tag value.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#String"
        }
      },
      "com.amazonaws.licensemanager#TagList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#Tag"
        }
      },
      "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
          {
            "target":
"com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
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            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits":
 {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>One or more tags.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
```

"TokenType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Type of token generated. The supported value is <code>REFRESH_TOKEN</code>. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"ExpirationTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Token expiration time, in ISO8601-UTC format. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller. "
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the roles included in the token. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. "
}
}
},
"traits": {

"smithy.api#documentation": " Describes a token. "
}
},
"com.amazonaws.licensemanager#TokenList": {
"type": "list",

"member": {
"target": "com.amazonaws.licensemanager#TokenData"
}
},
"com.amazonaws.licensemanager#TokenString": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 4096
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#TokenType": {
"type": "enum",
"members": {
"REFRESH_TOKEN": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REFRESH_TOKEN"
}
}
}
},
"com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The digital signature method is unsupported. Try your request again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#UntagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UntagResourceResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Removes the specified tags from the specified license configuration. "
}
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",
"traits": {
"smithy.api#documentation": " Keys identifying the tags to remove. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
"type": "structure",
"members": {},

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Modifies the attributes of an existing license configuration. "
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},

"LicenseConfigurationStatus": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
"traits": {
"smithy.api#documentation": " New status of the license configuration. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " New license rule. The only rule that you can add after you create a license\n configuration is licenseAffinityToHost. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " New number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",

"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
},
"traits":
{
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},

```
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates a report generator.</p>\n        <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to update.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportGeneratorName": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>",
                    "smithy.api#required": {}
                }
            },
            "Type": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports to generate. The following report types are supported:</p>\n        <ul>\n            <li>\n                <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p>\n            </li>\n            <li>\n                <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n            </li>\n        </ul>",
                    "smithy.api#required": {}
                }
            },
            "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
                    "smithy.api#documentation": "<p>The report context.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportFrequency": {
                "target": "com.amazonaws.licensemanager#ReportFrequency",
```

"traits":
{
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },

            {
                "target": "com.amazonaws.licensemanager#InvalidResourceStateException"
            },
            {
                "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p>\n        <p>You can update the license specifications of AMIs, instances, and
hosts.\n        You cannot update the license specifications for launch templates and CloudFormation templates, \n
  as they send license configurations to the operation that creates the resource.</p>"
        }
    },

    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "AddLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
                }
            },
            "RemoveLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation":
 "<p>ARNs of the license configurations to remove.</p>"
                }
```

```
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {},
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
    }
},
"com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
    "type": "structure",
    "members": {
        "S3BucketArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon S3 bucket where the License
Manager information is stored. "
}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Enables integration with Organizations for cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Activates cross-account discovery. "

}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UsageOperation": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
}
}
},
"com.amazonaws.licensemanager#ValidationException": {

```
            "type": "structure",
            "members": {
                "Message": {
                    "target": "com.amazonaws.licensemanager#Message"
                }
            },
            "traits": {
                "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",

        "smithy.api#error": "client",
                "smithy.api#httpError": 400
            }
        }
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {
```

```
 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version
 of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack,
 options); err != nil {
  return err
```

```
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if
 err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
```

```
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
```

1.4338 aws-sdk-go-v2-credentials 1.16.16

1.4338.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
```

```
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil,
 err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
```

```
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
if err !=
nil {
 return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack);
err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
```

AWS SDK for Go

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```
name: License Scan

on: [pull_request]

jobs:
 licensescan:
```

```
  name: License Scan
  runs-on: ubuntu-latest
  strategy:
    matrix:
      python-version: [3.9]

  steps:
    - name: Checkout target
      uses: actions/checkout@v2
      with:
        path: sdkbase
        ref: ${{ github.base_ref }}
    - name: Checkout this ref
      uses: actions/checkout@v2
      with:
        path: new-ref
        fetch-depth: 0
    - name: Get Diff
      run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
    - name: Get Target Files
      run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
       uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
```

```
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
```

```
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return
 err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckInLicense",
 }
}
{
   "smithy": "2.0",
   "shapes": {
       "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
```

"type": "integer"
},
"com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
"type": "long"
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of name to filter by. "
}
},
"Values": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " One or more values for the name to filter by. "
}
},
"Operator": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
"traits": {
"smithy.api#documentation": " An operator for filtering results. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter object that is used to return more specific results from a describe operation.\n Filters can be used to match a set of resources by specific criteria. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
},
"output": {

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
},
"errors": [

```
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the Linux subscriptions service settings.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/GetServiceSettings"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest":
{
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "LinuxSubscriptionsDiscovery": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
                "traits": {
                    "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
                }
            },
            "LinuxSubscriptionsDiscoverySettings": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
                "traits": {
                    "smithy.api#documentation": "<p>Lists the settings defined for Linux subscriptions discovery. The
settings include if\n      Organizations integration has been enabled, and
 which Regions data will be aggregated from.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
                }
```

```
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
                "traits": {
                    "smithy.api#documentation": "<p>A message which details the Linux subscriptions service settings
current status.</p>"
                }
            },
            "HomeRegions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>The Region in which License Manager displays
 the aggregated data for Linux\n      subscriptions.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
        "type": "structure",
        "members": {
            "AmiId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The AMI ID used to launch the instance.</p>"
                }
            },
            "InstanceID": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The instance ID of the resource.</p>"
                }
            },
            "InstanceType": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The instance type of the resource.</p>"
                }

        },
            "AccountID": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The account ID which owns the instance.</p>"
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
```

"smithy.api#documentation": " The status of the instance. "
}
},
"Region": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The Region the instance is running in. "
}
},
"UsageOperation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The usage operation of the instance. For more information, see For more information, see\n Usage\n operation values in the License Manager User Guide. "
}
},
"ProductCode": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
"traits": {
"smithy.api#documentation": " The product code for the instance. For more information, see Usage\n operation values in the License Manager User Guide . "
}
},
"LastUpdatedTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The time in which the last discovery updated the instance details. "
}
},
"SubscriptionName": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription being used by the instance. "
}
}
},
"traits": {
"smithy.api#documentation": " Details discovered information about a running instance using Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
"type": "list",
"member": {

```
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
    "type": "structure",
    "members": {
        "message": {
            "target": "smithy.api#String"
         }
    },
    "traits": {
        "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
        "smithy.api#error": "server"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
    "type": "service",
    "version": "2018-05-10",
    "operations": [
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
        }
    ],

"traits": {
        "aws.api#service": {
            "sdkId": "License Manager Linux Subscriptions",
            "arnNamespace": "license-manager-linux-subscriptions",
            "cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
        },
        "aws.auth#sigv4": {
            "name": "license-manager-linux-subscriptions"
        },
        "aws.protocols#restJson1": {},
        "smithy.api#cors": {
            "additionalAllowedHeaders": [
                "*",
                "content-type",
                "x-amz-content-sha256",
```

"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",

"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"
]
},
"smithy.api#documentation": " With License Manager, you can discover and track your commercial Linux subscriptions on running\n Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager Linux Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

```
 "type": "Boolean"
    },
    "Endpoint": {
        "builtIn": "SDK::Endpoint",
        "required": false,
        "documentation": "Override the endpoint used to send this request",
        "type": "String"
    }
},
"rules": [
    {
        "conditions": [
            {
                "fn": "isSet",
                "argv": [
                    {
                        "ref": "Endpoint"
                    }
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {

          "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseFIPS"
                            },
                            true
                        ]
                    }
                ],
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
                "type": "error"
            },
            {
                "conditions": [],
                "type": "tree",
                "rules": [
                    {

              "conditions": [
                            {
                                "fn": "booleanEquals",
```

```
                "argv": [
                  {
                    "ref": "UseDualStack"
                  },
                  true
                ]
              }
            ],
            "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
            "type": "error"
          },
          {
            "conditions": [],

        "endpoint": {
              "url": {
                "ref": "Endpoint"
              },
              "properties": {},
              "headers": {}
            },
            "type": "endpoint"
          }
        ]
      }
    ]
  },
  {
    "conditions": [],
    "type": "tree",
    "rules": [
      {
        "conditions": [
          {
            "fn": "isSet",

"argv": [
              {
                "ref": "Region"
              }
            ]
          }
        ],
        "type": "tree",
        "rules": [
          {
            "conditions": [
              {
```

```
                "fn": "aws.partition",
                "argv": [
                  {
                    "ref": "Region"
                  }
                ],

"assign": "PartitionResult"
              }
            ],
            "type": "tree",
            "rules": [
              {
                "conditions": [
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseFIPS"
                      },
                      true
                    ]
                  },

          {
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseDualStack"
                      },
                      true
                    ]
                  }
                ],
                "type": "tree",
                "rules": [
                  {
                    "conditions": [
                      {

                   "fn": "booleanEquals",
                        "argv": [
                          true,
                          {
                            "fn": "getAttr",
                            "argv": [
                              {
                                "ref": "PartitionResult"
```

```
                                    },
                                    "supportsFIPS"
                                ]

        }
                                ]
                            },
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    true,
                                    {
                                        "fn": "getAttr",
                                        "argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },

                                "supportsDualStack"
                                        ]
                                    }
                                ]
                            }
                        ],
                        "type": "tree",
                        "rules": [
                            {
                                "conditions": [],
                                "type": "tree",
                                "rules": [
                                    {

                    "conditions": [],
                                        "endpoint": {
                                            "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                            "properties": {},
                                            "headers": {}
                                        },
                                        "type": "endpoint"
                                    }
                                ]
                            }
                        ]

                    },
                    {
                        "conditions": [],
```

"error": "FIPS and DualStack are enabled, but this partition does not support one or both",
"type": "error"
}
]
},
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{

"ref": "UseFIPS"
},
true
]
}
],
"type": "tree",
"rules": [
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
true,

{
"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsFIPS"
]
}
]
}
],
"type": "tree",

"rules": [
{
"conditions": [],
"type": "tree",
"rules": [
{

"conditions": [],
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.{Region}.{PartitionResult#dnsSuffix}",
"properties": {},
"headers": {}

},
"type": "endpoint"
}
]
}
]
},
{
"conditions": [],
"error": "FIPS is enabled but this partition does not support FIPS",
"type": "error"
}
]

},
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseDualStack"
},
true
]
}
],
"type": "tree",
"rules": [
{

"conditions": [
{
"fn": "booleanEquals",
"argv": [
true,
{
"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"

```
                                                    },
                                                    "supportsDualStack"
                                                ]
                                            }
                                        ]
                                    }
                                ],
                                "type": "tree",
                                "rules": [
                                    {
                                        "conditions": [],
                                        "type": "tree",
                                        "rules": [
                                            {
                                                "conditions": [],

                                        "endpoint": {
                                                    "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                                    "properties": {},
                                                    "headers": {}
                                                },
                                                "type": "endpoint"
                                            }
                                        ]
                                    }
                                ]
                            },

        {
                                "conditions": [],
                                "error": "DualStack is enabled but this partition does not support DualStack",
                                "type": "error"
                            }
                        ]
                    },
                    {
                        "conditions": [],
                        "type": "tree",
                        "rules": [
                            {
                                "conditions": [],
                                "endpoint": {
                                    "url":
"https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                                    "properties": {},
                                    "headers": {}
                                },
```

"type": "endpoint"
}
]
}
]
}
]
},
{
"conditions": [],
"error": "Invalid Configuration: Missing Region",
"type": "error"
}
]
}
]
},
"smithy.rules#endpointTests": {
"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {

"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",

"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {

"url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,

"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint":
{
"url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"

```
            }
        },
        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": true,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
        "expect": {
            "endpoint":
{
                "url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
            }
        },
        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
            "UseDualStack": true
        }
    },
    {
        "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
             "UseDualStack": false
        }
    },
    {
        "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
        "expect": {
            "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
        },
        "params": {
            "Region": "us-iso-east-1",
            "UseFIPS": true,
            "UseDualStack": true
        }
    },
    {
        "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
```

"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{

"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {

"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},

{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",

"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",

"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",

"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,

"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true,
"Endpoint": "https://example.com"
}
},
{
"documentation": "Missing region",
"expect": {

"error": "Invalid Configuration: Missing Region"
}

}
],
"version": "1.0"
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "Enabled",
"value": "Enabled",
"documentation": "Enabled LinuxSubscriptionsDiscovery"
},
{
"name": "Disabled",
"value": "Disabled",
"documentation": "Disabled LinuxSubscriptionsDiscovery"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
"type": "structure",
"members": {
"SourceRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Regions in which to discover data for Linux subscriptions. ",
"smithy.api#required": {}
}
},
"OrganizationIntegration": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
"traits": {
"smithy.api#documentation": " Details if you have enabled resource discovery across your accounts in Organizations. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Lists the settings defined for discovering Linux subscriptions. "

}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
"type":
"operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the running Amazon EC2 instances that were discovered with commercial Linux\n subscriptions. ",
"smithy.api#http": {

"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptionInstances"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Instances"
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by

```
 the name of\n        <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n
match, or don't match a certain Amazon Machine Image (AMI) ID.</p>\n        <p>The valid names for this filter
are:</p>\n        <ul>\n            <li>\n                <p>\n                <code>AmiID</code>\n                </p>\n
</li>\n            <li>\n                <p>\n                <code>InstanceID</code>\n                </p>\n            </li>\n
<li>\n                <p>\n                <code>AccountID</code>\n                </p>\n            </li>\n            <li>\n
<p>\n                <code>Status</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>Region</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>UsageOperation</code>\n                </p>\n            </li>\n            <li>\n
    <p>\n                <code>ProductCode</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
     <code>InstanceType</code>\n                </p>\n            </li>\n        </ul>\n        <p>The valid Operators for this
filter are:</p>\n        <ul>\n            <li>\n                <p>\n                <code>contains</code>\n                </p>\n
</li>\n            <li>\n                <p>\n                <code>equals</code>\n                </p>\n            </li>\n            <li>\n
        <p>\n                <code>Notequal</code>\n                </p>\n            </li>\n        </ul>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"

        }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>",
                    "smithy.api#length": {
                        "min": 1,
                        "max": 16384
                    }
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
        "type": "structure",
        "members": {
            "Instances": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
                "traits": {
                    "smithy.api#documentation":
 "<p>An array that contains instance objects.</p>"
                }
            },
```

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions that have been discovered. If you have linked your\n organization, the returned results will include data aggregated across your accounts in\n Organizations. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptions"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Subscriptions"
}

}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
"type": "structure",

"members": {
"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>Subscription</code> with an optional operator to see subscriptions that match,\n partially match, or don't match a certain subscription's name. \n The valid names for this filter are: \n \n \n \n <code>Subscription</code>\n \n \n \n The valid Operators for this filter are: \n \n \n \n <code>contains</code>\n \n \n \n \n <code>equals</code>\n \n \n \n \n <code>Notequal</code>\n \n \n "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. ",
"smithy.api#length": {

"min": 1,
"max": 16384
}
}
}
},
"traits": {
"smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
"type": "structure",
"members": {
"Subscriptions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
"traits": {
"smithy.api#documentation": " An array that contains subscription objects. "
}
},
"NextToken": {

"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for
the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "EQUAL",
"value": "Equal",
"documentation": "Equal operator"
},
{
"name": "NOT_EQUAL",
"value": "NotEqual",
"documentation": "Not equal operator"
},
{
"name": "CONTAINS",
"value": "Contains",
"documentation": "Contains operator"
}
],
"smithy.api#length": {
"min": 1,
"max": 20
}
}
},

"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "Enabled",
"value": "Enabled",
"documentation": "Enabled OrganizationIntegration"
},
{
"name": "Disabled",
"value": "Disabled",
"documentation": "Disabled OrganizationIntegration"

```
                }
            ]
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
        "type": "list",
        "member": {
            "target": "smithy.api#String"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [

   {
                "name": "InProgress",
                "value": "InProgress",
                "documentation": "InProgress status"
            },
            {
                "name": "Completed",
                "value": "Completed",
                "documentation": "Completed status"
            },
            {
                "name": "Successful",
                "value": "Successful",
                "documentation": "Successful status"
            },
            {
                "name": "Failed",
                "value": "Failed",
                "documentation": "Failed status"
            }
            ]
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
        "type": "list",
        "member": {
            "target": "smithy.api#String",
            "traits":
{
                "smithy.api#length": {
                    "min": 1,
                    "max": 100
                }
```

```
            }
        },
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max": 100
            },
            "smithy.api#uniqueItems": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
        "type": "map",
        "key": {
            "target": "smithy.api#String"
        },
        "value": {
            "target": "smithy.api#String"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the subscription.</p>"

        }
            },
            "Type": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own\n      Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the\n      Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS.</p>"
                }
            },
            "InstanceCount": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>The total amount of running instances using this subscription.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>An object which details a discovered Linux
```

subscription. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request was denied due to request throttling. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
},

"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates the service settings for Linux subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/UpdateServiceSettings"
},

"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest":
{
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Describes if the discovery of Linux subscriptions is enabled. ",
"smithy.api#required": {}
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. ",

"smithy.api#required": {}
}
},
"AllowUpdate": {
"target": "smithy.api#Boolean",
"traits": {
"smithy.api#documentation": " Describes if updates are allowed to the service settings for Linux subscriptions. If you\n allow updates, you can aggregate Linux subscription data in more than one home Region. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},

"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The

settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation":
" A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The provided input is not valid. Try your request again. ",
"smithy.api#error": "client"
}
}
}
}

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - Beneficiary
 //   - ProductSKU
 //   - Fingerprint
 //
   - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {
```

```
 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if
 err := addProtocolFinalizerMiddlewares(stack, options, "ListLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
```

```
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
```

```
    ServiceID,
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 //
 This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string
```

```
 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack,
 options, "DisassociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
```

```
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
```

```
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
```

```
CheckoutLicenseInput struct {

// Checkout type.
//
// This member is required.
CheckoutType types.CheckoutType

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string
```

```
 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource
 Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil
 {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
```

```
 return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier
 that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string
```

```
 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return
 err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
```

```
 return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide
 to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
```

```
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity
 *types.DatetimeRange

 // Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
  return fmt.Errorf("add
 protocol finalizers: %v", err)
 }
```

```
if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
```

```
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName:
 "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
```

```
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
```

```
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return
err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack);
err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
```

```
err != nil {
 return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "GetLicense",
 }
}
```

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```
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LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
   - ProductSKU
 //   - Status
 //   - Fingerprint
 //   - IssuerName
```

```
//   - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
 middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
```

```
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack);
err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
 }
}
```

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```
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
```

```
        },
        "traits": {
            "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
        "type": "structure",
        "members": {
            "DirectoryId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
"<p>Details about an Active Directory identity provider.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Associates the user to an EC2 instance to utilize user-based
subscriptions.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related
costs will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing
status) in Amazon Web Services Billing. For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n
        monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/AssociateUser"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the
 EC2 instance, which provides user-based subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>The identity provider of the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
```

```
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
        "type": "structure",
        "members": {
            "InstanceUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
                 "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
        "type": "integer"
    },
    "com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request couldn't be completed because it conflicted with the current
state of the\n      resource.</p>",
            "smithy.api#error": "server"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider":
 {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deregisters the identity provider from providing user-based
subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/DeregisterIdentityProvider"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
        "type": "structure",
```

"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation":
" Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Disassociates the user from an EC2 instance providing user-based
subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",

"uri": "/user/DisassociateUser"
},
"smithy.api#idempotent": {}
}

},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}

```
                }
            }
        }
    },

"com.amazonaws.licensemanagerusersubscriptions#Filter": {
        "type": "structure",
        "members": {
            "Attribute": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of an attribute to use as a filter.</p>"
                }
            },
            "Operation": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The type of search (For example, eq, geq, leq)</p>"
                }
            },
            "Value": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Value of the filter.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A filter name and value pair that is used
 to return more specific results from a describe\n      operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n      attributes, or IDs.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#FilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
        "type": "union",
        "members": {
            "ActiveDirectoryIdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that details an Active Directory identity provider.</p>"
                }
            }
```

```
        },
        "traits": {
          "smithy.api#documentation":
 "<p>Details about an identity provider.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
        "type": "structure",
        "members": {
          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
              "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "Settings": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
            "traits": {
              "smithy.api#documentation": "<p>An object that details the registered identity providers product
related configuration\n      settings such as the subnets to provision VPC endpoints.</p>",
              "smithy.api#required":
 {}
            }
          },
          "Product": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
              "smithy.api#required": {}
            }
          },
          "Status": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The status of an identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "FailureMessage": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The failure message associated with an identity provider.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation":
```

" Describes an identity provider. "
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
                    "smithy.api#required": {}
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": " The status of an EC2 instance resource. ",
                    "smithy.api#required": {}
                }
            },
            "Products": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
                "traits": {
                    "smithy.api#documentation": " A list of provided user-based subscription products. ",
                    "smithy.api#required": {}
                }
            },
            "LastStatusCheckDate": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": " The date of the last status check. "
                }
            },
            "StatusMessage": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": " The status message for an EC2 instance. "
                }

```
    }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes an EC2 instance providing user-based subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits":
 {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status of a user associated with an EC2 instance.</p>",
                    "smithy.api#required": {}
                }
            },
            "StatusMessage": {
                "target": "smithy.api#String",
```

"traits": {
"smithy.api#documentation": " The status message for users of an EC2 instance. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
},
"AssociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was associated with an EC2 instance. "
}
},
"DisassociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was disassociated from an EC2 instance. "
}
}

},
"traits": {
"smithy.api#documentation": " Describes users of an EC2 instance providing user-based subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " An exception occurred with the service. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {

"type": "service",

"version": "2018-05-10",
"operations": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
}
],
"traits": {
"aws.api#service": {
"sdkId": "License Manager User Subscriptions",
"arnNamespace": "license-manager-user-subscriptions",
"cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
},
"aws.auth#sigv4": {
"name": "license-manager-user-subscriptions"

},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",
"x-api-key",
"authorization",
"x-amz-date",
"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"

]
},
"smithy.api#documentation": " With License Manager, you can create user-based subscriptions to utilize licensed software with\n a per user subscription fee on Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager User Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",

"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}

},
"rules": [
{
"conditions": [
{
"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
]
}
],
"type": "tree",
"rules": [
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
},

true
]
}
],
"error": "Invalid Configuration: FIPS and custom endpoint are not supported",
"type": "error"
},
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"conditions": [
{
"fn": "booleanEquals",

"argv": [
{
"ref": "UseDualStack"
},
true
]
}
],

"error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
"type": "error"
},
{
"conditions": [],
"endpoint": {
"url": {
"ref": "Endpoint"
},
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
},
{
"conditions": [
{
"fn": "isSet",
"argv": [

{
"ref": "Region"
}
]
}
],
"type": "tree",
"rules": [
{
"conditions": [
{
"fn": "aws.partition",
"argv": [
{
"ref": "Region"
}
],

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                "assign": "PartitionResult"
            }
        ],
        "type": "tree",

    "rules": [
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                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseFIPS"
                            },
                            true
                        ]
                    },
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseDualStack"

                            },
                            true
                        ]
                    }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    true,
                                    {
                                        "fn": "getAttr",

"argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },
                                            "supportsFIPS"
                                        ]
                                    }
                                ]
                            },
```

{
"fn": "booleanEquals",
"argv": [
true,
{

"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsDualStack"
]
}
]
}
],
"type": "tree",
"rules": [
{

"conditions": [],
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
},
{
"conditions": [],
"error": "FIPS and DualStack are enabled, but this partition does not support one or both",
"type": "error"
}
]
},
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
},

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                    true
                ]
            }
        ],
        "type": "tree",

    "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
                            {
                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsFIPS"

                    ]
                            }
                        ]
                    }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [],
                        "endpoint": {
                            "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                            "properties": {},
                            "headers": {}

            },
                        "type": "endpoint"
                    }
                ]
            },
            {
                "conditions": [],
                "error": "FIPS is enabled but this partition does not support FIPS",
                "type": "error"
            }
        ]
    },
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{
  "conditions": [
    {
      "fn": "booleanEquals",
      "argv": [
        {
          "ref": "UseDualStack"
        },
        true
      ]
    }
  ],
  "type": "tree",
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            true,
            {

              "fn": "getAttr",
                "argv": [
                  {
                    "ref": "PartitionResult"
                  },
                  "supportsDualStack"
                ]
            }
          ]
        }
      ],
      "type": "tree",
      "rules": [
        {

          "conditions": [],
          "endpoint": {
            "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
            "properties": {},
            "headers": {}
          },
          "type": "endpoint"
        }
      ]
    },
```

```
                    {
                        "conditions": [],
                        "error": "DualStack is enabled but this partition does
not support DualStack",
                        "type": "error"
                    }
                ]
            },
            {
                "conditions": [],
                "endpoint": {
                    "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ]
    }
]
},
{
    "conditions":
[],
    "error": "Invalid Configuration: Missing Region",
    "type": "error"
}
]
},
"smithy.rules#endpointTests": {
    "testCases": [
        {
            "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": true
            }
        },
        {
            "documentation":
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"For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
}
},

"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with
FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
}
},

"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},

"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1
with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{

"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
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"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1
with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
}
},

"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect":
{
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack":
true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"

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                }
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "error": "FIPS and DualStack are enabled, but
this partition does not support one or both"
            },
            "params": {
                "Region": "us-isob-east-1",
                "UseFIPS": true,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
                }
            },
            "params": {
                "Region": "us-isob-east-1",
                "UseFIPS": true,
                "UseDualStack": false
            }

    },
        {
            "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
                "error": "DualStack is enabled but this partition does not support DualStack"
            },
            "params": {
                "Region": "us-isob-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
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"endpoint": {
"url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{

"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,
"Endpoint": "https://example.com"

```
                }
            },
            {
                "documentation": "For custom endpoint with fips disabled and dualstack enabled",
                "expect": {
                    "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
                },
                "params": {
                    "Region": "us-east-1",
                    "UseFIPS": false,
                    "UseDualStack": true,
                    "Endpoint": "https://example.com"
                }
            },
            {
                "documentation": "Missing region",
                "expect": {
                     "error": "Invalid Configuration: Missing Region"
                }
            }
        ],
        "version": "1.0"
    }
  }
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
     },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the identity providers for user-based subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/ListIdentityProviders"
            },
            "smithy.api#paginated":
{
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "IdentityProviderSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
{
        "type": "structure",
        "members": {
            "IdentityProviderSummaries": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
                "traits": {
```

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            "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
            "smithy.api#required": {}
          }
        },
        "NextToken": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
        "smithy.api#http": {
          "code": 200,
          "method": "POST",
```

"uri": "/instance/ListInstances"
},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "InstanceSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
"type": "structure",
"members": {
"InstanceSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list instances operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "

```
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
             }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the user-based subscription products available from an identity
provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListProductSubscriptions"
            },
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "ProductUserSummaries"
```

```
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name
 of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {

  "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match
 one or\n      more sets of key-value pairs that you specify.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
        "type": "structure",
        "members": {
            "ProductUserSummaries": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
```

"traits": {
"smithy.api#documentation": " Metadata that describes the list product subscriptions operation. "
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists user associations for an identity provider. ",

"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/ListUserAssociations"
},
"smithy.api#paginated":
{
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "InstanceUserSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
"type": "structure",
"members": {
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based
subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity
provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those
that match one or\n more sets of key-value pairs that you specify. "
}
},
"NextToken": {
"target": "smithy.api#String",

"traits": {
"smithy.api#documentation": " Token for
the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
"type": "structure",
"members": {
"InstanceUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list user association operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
"type": "structure",
"members": {

"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider of the user. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}

```
    },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status of a product for a user.</p>",
                    "smithy.api#required": {}
                }
            },
            "StatusMessage": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status message for a product for a user.</p>"
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            },
            "SubscriptionStartDate": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The
start date of a subscription.</p>"
                }
            },
            "SubscriptionEndDate": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The end date of a subscription.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The summary of the user-based subscription products for a user.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
        "type": "operation",
        "input": {
```

"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Registers an identity provider for user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/RegisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}

```
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Settings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
                "traits": {
                    "smithy.api#documentation": "<p>The registered identity providers product related configuration
settings such as the\n      subnets to provision VPC endpoints.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
        "type": "structure",
        "members": {
            "IdentityProviderSummary":
 {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the results of an identity provider
operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The resource couldn't be found.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 404
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
        "type": "string",
```

"traits": {
"smithy.api#length": {
"min": 5,
"max": 200
},
"smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request failed because a service quota is exceeded. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Settings": {
"type": "structure",
"members": {
"Subnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation":
" The subnets defined for the registered identity provider. ",
"smithy.api#length": {
"min": 1
},
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID that allows inbound TCP port 1688
communication between resources in\n your VPC and the VPC endpoint for activation servers. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings
such as the\n subnets to provision VPC endpoints, and the security group ID that
is associated with the VPC\n endpoints. The security group should permit inbound TCP port 1688
communication from resources\n in the VPC. "

```
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Starts a product subscription for a user with the specified identity
provider.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related costs
will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status)
in Amazon Web Services Billing.
 For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n          monthly
charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/StartProductSubscription"
            }
        }
    },
```

"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider of the user. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the user. "
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
"type": "structure",
"members": {
"ProductUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the start product subscription operation. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
"type": "operation",
"input": {

"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Stops a product subscription for a user with the specified identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/StopProductSubscription"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}

```
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required":
{}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
        "type": "structure",
        "members": {
            "ProductUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
                "traits": {
                    "smithy.api#documentation":
"<p>Metadata that describes the start product subscription operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StringList": {
        "type": "list",
        "member": {
            "target": "smithy.api#String"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Subnet": {
        "type": "string",
        "traits": {
            "smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
        }
```

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#Subnets": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
            "message": {

             "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request was denied because of request throttling. Retry the
request.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates additional product configuration settings for the registered
identity\n      provider.</p>",
            "smithy.api#http": {
                "code": 200,
```

"method": "POST",
"uri": "/identity-provider/UpdateIdentityProviderSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"UpdateSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings. You can\n update any combination of settings in a single operation such as the: \n \n \n Subnets which you want to add to provision VPC endpoints. \n \n \n Subnets which you want to remove the VPC endpoints from. \n \n \n Security group ID which permits traffic to the VPC endpoints. \n \n ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
"type": "structure",

"members": {
"AddSubnets": {

"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets in which License Manager will create a VPC endpoint for products that\n require connectivity to activation servers. ",
"smithy.api#required": {}
}
},
"RemoveSubnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets to remove. ",
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID that allows inbound TCP port 1688 communication between resources in\n your VPC and the VPC endpoints for activation servers. "
}
}
},
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings such as\n the subnets to provision VPC endpoints. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " A parameter is not valid. ",
"smithy.api#error": "client"
}
}
}
}
{
"smithy": "2.0",
"metadata": {

```
    "suppressions": [
        {
            "id": "HttpMethodSemantics",
            "namespace": "*"
        },
        {
            "id": "HttpResponseCodeSemantics",
            "namespace": "*"
        },
        {
            "id": "PaginatedTrait",
            "namespace": "*"
        },
        {
            "id": "HttpHeaderTrait",
            "namespace": "*"
        },
        {
            "id": "HttpUriConflict",
            "namespace": "*"
        },
        {
            "id": "Service",
            "namespace": "*"
        }
    ]
},
"shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
        "type": "service",
        "version": "2018-08-01",
        "operations": [
            {
                "target": "com.amazonaws.licensemanager#AcceptGrant"
            },

 {
                "target": "com.amazonaws.licensemanager#CheckInLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CheckoutLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateGrant"
            },
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{
"target": "com.amazonaws.licensemanager#CreateGrantVersion"
},
{
"target": "com.amazonaws.licensemanager#CreateLicense"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#CreateLicenseVersion"
},
{
"target": "com.amazonaws.licensemanager#CreateToken"
},
{
"target": "com.amazonaws.licensemanager#DeleteGrant"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicense"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#DeleteToken"
},
{
"target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

},
{
"target": "com.amazonaws.licensemanager#GetAccessToken"
},
{
"target": "com.amazonaws.licensemanager#GetGrant"
},
{
"target": "com.amazonaws.licensemanager#GetLicense"

},
{
"target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
},
{
"target": "com.amazonaws.licensemanager#GetLicenseUsage"
},
{
"target": "com.amazonaws.licensemanager#GetServiceSettings"
},
{
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#ListDistributedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
"target": "com.amazonaws.licensemanager#ListLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

"target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
{

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"arnNamespace": "license-manager",
"cloudFormationName": "LicenseManager",
"cloudTrailEventSource": "licensemanager.amazonaws.com",

"endpointPrefix": "license-manager"
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"name": "license-manager"
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"aws.protocols#awsJson1_1": {},
"smithy.api#documentation": " License Manager makes it easier to manage licenses from software vendors across multiple \n Amazon Web Services accounts and on-premises servers. ",
"smithy.api#title": "AWS License Manager",
"smithy.api#xmlNamespace": {
"uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
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"smithy.rules#endpointRuleSet": {
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"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
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"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
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"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
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"type": "String"
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                        "fn": "getAttr",
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                            "ref": "PartitionResult"
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"supportsDualStack"
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                        "type": "endpoint"
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                "conditions": [],
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                "type": "error"
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                        "argv": [
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                                "ref": "PartitionResult"
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        "type": "endpoint"
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partition does not support FIPS",
"type": "error"
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                "type": "endpoint"
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                "UseDualStack": false
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            "params": {
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"params": {
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"params": {
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disabled and DualStack disabled",
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                "UseDualStack": false
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                "UseDualStack": false
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                "UseDualStack": false
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                "UseDualStack": false
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            "UseDualStack": false
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          "params": {
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            "UseFIPS": true,
            "UseDualStack": false
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                "UseDualStack": false
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                "UseDualStack": true
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              "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
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                  "url": "https://license-manager.us-east-1.api.aws"
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"params": {
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"documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
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"params": {
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"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
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"params": {
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"params": {
"Region": "cn-north-1",
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"UseDualStack": true
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"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
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"url": "https://license-manager.us-gov-east-1.amazonaws.com"
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"params": {
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"UseDualStack": false
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"params": {
"Region": "us-gov-east-1",

"UseFIPS": true,
"UseDualStack": false
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"documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
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"params": {
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"UseDualStack": false
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"params": {
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"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
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"params": {
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"expect": {

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            "UseDualStack": true
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        "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack
disabled",
        "expect": {
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                "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
            }
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            "UseFIPS": false,
            "UseDualStack": false
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            "UseFIPS": true,
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        }
    },
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        "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
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            }
        },
        "params": {
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            "UseFIPS": true,
            "UseDualStack": false
        }
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{
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but this partition does not support DualStack"
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"params": {
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},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
}
},

"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,

"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,

"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"

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                },
                "params": {
                    "Region": "us-east-1",
                    "UseFIPS": true,
                    "UseDualStack": false,
                    "Endpoint": "https://example.com"
                }
            },
            {
                "documentation": "For custom endpoint with fips disabled and dualstack enabled",
                "expect": {
                    "error":
"Invalid Configuration: Dualstack and custom endpoint are not supported"
                },
                "params": {
                    "Region": "us-east-1",
                    "UseFIPS": false,
                    "UseDualStack": true,
                    "Endpoint": "https://example.com"
                }
            },
            {
                "documentation": "Missing region",
                "expect": {
                    "error": "Invalid Configuration: Missing Region"
                }
            }
        ],
        "version": "1.0"
    }
  }
},
"com.amazonaws.licensemanager#AcceptGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#AcceptGrantRequest"

},
    "output": {
        "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
```

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            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"

    }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant
ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
```

"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#AccessDeniedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {

"code": "ServiceAccessDenied",
"httpResponseCode": 401
},
"smithy.api#documentation": " Access to resource denied. ",
"smithy.api#error": "client",
"smithy.api#httpError": 401
}
},
"com.amazonaws.licensemanager#ActivationOverrideBehavior": {
"type": "enum",
"members": {
"DISTRIBUTED_GRANTS_ONLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
}
},
"ALL_GRANTS_PERMITTED_BY_ISSUER": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
}
}

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        }
    },
    "com.amazonaws.licensemanager#AllowedOperation": {

    "type": "enum",
        "members": {
            "CREATE_GRANT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "CreateGrant"
                }
            },
            "CHECKOUT_LICENSE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "CheckoutLicense"
                }
            },
            "CHECKOUT_BORROW_LICENSE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "CheckoutBorrowLicense"
                }
            },
            "CHECK_IN_LICENSE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "CheckInLicense"
                }
            },
            "EXTEND_CONSUMPTION_LICENSE":
{
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "ExtendConsumptionLicense"
                }
            },
            "LIST_PURCHASED_LICENSES": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "ListPurchasedLicenses"
                }
            },
            "CREATE_TOKEN": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "CreateToken"
                }
```

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            }
        }
    },
    "com.amazonaws.licensemanager#AllowedOperationList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#AllowedOperation"
        },
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max":
7
            }
        }
    },
    "com.amazonaws.licensemanager#Arn": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 2048
            },
            "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-
z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
        }
    },
    "com.amazonaws.licensemanager#ArnList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Arn"
        }
    },
    "com.amazonaws.licensemanager#AuthorizationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError":
{
                "code": "AuthorizationFailure",
                "httpResponseCode": 403
            },
            "smithy.api#documentation": "<p>The Amazon Web Services user account does not have permission to
perform the action. Check the IAM\n        policy associated with this account.</p>",
```

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            "smithy.api#error": "client",
            "smithy.api#httpError": 403
        }
    },
    "com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
        "type": "structure",
        "members": {
            "LastRunTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes automated discovery.</p>"
        }
    },

  "com.amazonaws.licensemanager#Boolean": {
        "type": "boolean",
        "traits": {
            "smithy.api#default": false
        }
    },
    "com.amazonaws.licensemanager#BorrowConfiguration": {
        "type": "structure",
        "members": {
            "AllowEarlyCheckIn": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether early check-ins are allowed.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxTimeToLiveInMinutes": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
                    "smithy.api#required": {}
                }
            }

},
        "traits": {
            "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
        }
    },
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"com.amazonaws.licensemanager#BoxBoolean": {
    "type": "boolean"
},
"com.amazonaws.licensemanager#BoxInteger": {
    "type": "integer"
},
"com.amazonaws.licensemanager#BoxLong": {
    "type": "long"
},
"com.amazonaws.licensemanager#CheckInLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"

},
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": " Checks in the specified license. Check in a license when it is no longer in use. "
    }

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    },
    "com.amazonaws.licensemanager#CheckInLicenseRequest":
{
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicense":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members":
 {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
 use the borrow consumption configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
                    "smithy.api#required": {}
```

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                }
            },
            "DigitalSignatureMethod": {
                "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
                "traits": {
                    "smithy.api#documentation": "<p>Digital signature method. The possible
 value is JSON Web Signature (JWS) algorithm PS384.\n        For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>",
                    "smithy.api#required": {}
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation":
 "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
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"smithy.api#documentation": " License consumption token. "
}
},
"EntitlementsAllowed":
{
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " Allowed license entitlements. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "
}
},
"SignedToken": {
"target": "com.amazonaws.licensemanager#SignedToken",
"traits": {
"smithy.api#documentation": " Signed token. "
}
},
"IssuedAt": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout
is issued. "
}
},
"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about constraints. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutLicense": {
"type": "operation",

"input": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target":
"com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks out the specified license. \n <note>\n If the account that created the license is the same that is performing the check out, you must\n specify the account as the beneficiary. \n </note>"
}
},
"com.amazonaws.licensemanager#CheckoutLicenseRequest": {
"type": "structure",
"members": {

"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product
SKU. ",
"smithy.api#required": {}
}
},
"CheckoutType": {
"target": "com.amazonaws.licensemanager#CheckoutType",
"traits": {
"smithy.api#documentation": " Checkout type. ",
"smithy.api#required": {}
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Key fingerprint identifying the license. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementDataList",
"traits": {
"smithy.api#documentation": " License entitlements. ",

"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"NodeId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Node ID. "

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            }
        }
    },
    "traits": {

   "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
    "type": "structure",
    "members": {
        "CheckoutType": {
            "target": "com.amazonaws.licensemanager#CheckoutType",
            "traits": {
                "smithy.api#documentation": "<p>Checkout type.</p>"
            }
        },
        "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
            }
        },
        "EntitlementsAllowed": {
            "target": "com.amazonaws.licensemanager#EntitlementDataList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
            }
        },
         "SignedToken": {
            "target": "com.amazonaws.licensemanager#SignedToken",
            "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
            }
        },
        "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        },
        "IssuedAt": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
            }
        },
        "Expiration": {
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"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and
time at which the license checkout expires. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the checkout license. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CheckoutType": {
"type": "enum",
"members": {
"PROVISIONAL": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PROVISIONAL"
}
},
"PERPETUAL": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PERPETUAL"
}
}
}
},
"com.amazonaws.licensemanager#ClientRequestToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 36
}
}
},
"com.amazonaws.licensemanager#ClientToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,

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                "max": 2048
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
    "com.amazonaws.licensemanager#ConflictException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ConflictException",
                "httpResponseCode":
 409
            },
            "smithy.api#documentation": "<p>There was a conflict processing the request. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 409
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
                }
            },
            "ConsumedLicenses": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
                }
            }
        },

 "traits": {
            "smithy.api#documentation": "<p>Details about license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
        "type": "list",
        "member": {
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"target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
}
},
"com.amazonaws.licensemanager#ConsumptionConfiguration": {
"type": "structure",
"members": {
"RenewType": {
"target": "com.amazonaws.licensemanager#RenewType",
"traits": {
"smithy.api#documentation": " Renewal frequency. "
}
},
"ProvisionalConfiguration": {
"target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"BorrowConfiguration": {
"target": "com.amazonaws.licensemanager#BorrowConfiguration",
"traits": {
"smithy.api#documentation": " Details about a borrow configuration. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a consumption configuration. "
}
},
"com.amazonaws.licensemanager#CreateGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target":
"com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},

```
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of license\n        entitlements with a specific Amazon Web Services account, an organization, or an\n organizational unit (OU). For more
 information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}

    }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Principals": {
```

"target": "com.amazonaws.licensemanager#PrincipalArnList",
"traits": {
"smithy.api#documentation": " The grant principals. You can specify one of the following as an Amazon Resource Name\n (ARN): \n \n \n An Amazon Web Services account, which includes only the account specified. \n \n \n \n \n An organizational unit (OU), which includes all accounts in the OU. \n \n \n \n \n An organization, which will include all accounts across your organization. \n \n ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},

"com.amazonaws.licensemanager#CreateGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateGrantVersion":
{
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a new version of the specified grant. For more information, see\n Granted licenses in License Manager in the License Manager User Guide. "
}
},

"com.amazonaws.licensemanager#CreateGrantVersionRequest": {
"type": "structure",
"members": {
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",

"smithy.api#required": {}
}
},
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations for the grant. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the grant. "
}

```
            },
            "Options": {
                "target": "com.amazonaws.licensemanager#Options",
                "traits": {
                    "smithy.api#documentation": "<p>The options specified for the grant.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>New version of the grant.</p>"
                }
            }
        },
        "traits":
{
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
        },
        "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
```

"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Creates a license configuration. \n A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a \n license must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension used to track the license inventory. ",
"smithy.api#required": {}
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether hard or soft license enforcement is used.

Exceeding a hard limit\n blocks the launch of new instances. "
}
},
"LicenseRules": {
"target":
"com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. The syntax is #name=value (for example,
#allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows. \n
\n \n \n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n
<code>licenseAffinityToHost</code> |\n <code>maximumCores</code> |
<code>minimumCores</code>\n \n \n \n \n
<code>Instances</code> dimension: <code>allowedTenancy</code> | \n <code>maximumCores</code> |
<code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n
<code>maximumVcpus</code> | <code>minimumVcpus</code>\n \n \n
\n
\n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n
<code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> |
<code>minimumSockets</code>\n \n \n \n \n
<code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n
<code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> |
<code>minimumVcpus</code>\n \n \n \n The unit for
<code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for
<code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n
<code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n
<code>True</code> and <code>False</code>. "
}
},

"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the license configuration. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is
uninstalled. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
}

```
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse":
{
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
```

"traits": {
"smithy.api#documentation": " Creates a new license conversion task. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {

"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource you are converting the license type for. ",
"smithy.api#required": {}
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting from. \n\n For the structure of the source license, see Convert a license type using the CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
},
"DestinationLicenseContext":
{
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information that identifies the license type you are converting to. For the structure of the destination license, see Convert a license type using the CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

```
    "traits": {
            "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
       },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      },
      {
        "target": "com.amazonaws.licensemanager#ValidationException"
      }
    ],
    "traits": {
      "smithy.api#documentation": "<p>Creates a report generator.</p>"
    }
  },
  "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
```

"type": "structure",
"members": {
"ReportGeneratorName":
{
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types an be generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}

}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " Defines the type of license configuration the report generator tracks. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique,
case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the new report
generator. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseRequest": {
"type": "structure",
"members": {
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product
name. ",
"smithy.api#required": {}
}

```
            },
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "Issuer": {
                "target": "com.amazonaws.licensemanager#Issuer",
                "traits": {
                    "smithy.api#documentation": "<p>License issuer.</p>",
                    "smithy.api#required": {}
                }
            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Home Region for the license.</p>",
                    "smithy.api#required": {}

    }
            },
            "Validity": {
                "target": "com.amazonaws.licensemanager#DatetimeRange",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",
                    "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>",
                    "smithy.api#required": {}
                }
             },
            "ConsumptionConfiguration": {
                "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
                "traits": {
```

"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation":
" Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {

"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a new version of the specified license. "
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target":
"com.amazonaws.licensemanager#Arn",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits":
{
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"Entitlements": {

"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},

"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",

```
            "traits": {
                "smithy.api#documentation": "<p>License ARN.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>New version of the license.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output":
{}
    }
},
"com.amazonaws.licensemanager#CreateToken": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateTokenResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
```

{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a long-lived token. \n A refresh token is a JWT token used to get an access token. With an access token,\n you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n call License Manager to manage the specified license. "
}
},
"com.amazonaws.licensemanager#CreateTokenRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits":
{
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n JWT token. ",
"smithy.api#required": {}
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n License Manager does not check whether the roles are in use. "
}
},
"ExpirationInDays": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Token expiration, in days, counted from token creation. The default is 365 days. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller to be included in the JWT token. The data is mapped\n to the amr claim of the JWT token. "
}

```
        },
        "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientToken",
            "traits": {
                "smithy.api#documentation": "<p>Idempotency token, valid for 10 minutes.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CreateTokenResponse": {
    "type": "structure",
    "members": {
        "TokenId": {
            "target": "com.amazonaws.licensemanager#String",

         "traits": {
                "smithy.api#documentation": "<p>Token ID.</p>"
            }
        },
        "TokenType": {
            "target": "com.amazonaws.licensemanager#TokenType",
            "traits": {
                "smithy.api#documentation": "<p>Token type.</p>"
            }
        },
        "Token": {
            "target": "com.amazonaws.licensemanager#TokenString",
            "traits": {
                "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#DateTime": {
    "type": "timestamp"
},
"com.amazonaws.licensemanager#DatetimeRange": {
    "type": "structure",
    "members": {
        "Begin": {
```

"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Start of the time range. ",
"smithy.api#required": {}
}
},
"End": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " End of the time range. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a time range, in ISO8601-UTC format. "
}
},
"com.amazonaws.licensemanager#DeleteGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],

"traits": {
"smithy.api#documentation": " Deletes
the specified grant. "
}
},
"com.amazonaws.licensemanager#DeleteGrantRequest": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " The Status reason for the delete request. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the
grant. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}

```
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
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"traits": {
"smithy.api#documentation": " Deletes the specified license. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license configuration. \n You cannot delete a license configuration that is in use. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
"type": "structure",
"members":
{
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the license configuration. ",
"smithy.api#required": {}
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified report generator. \n This action deletes the report generator, which stops it from generating future reports.\n The action cannot be reversed. It has no effect on the previous reports from this generator. "

```
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to be
deleted.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {

 "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>",
                    "smithy.api#required":
 {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
```

```
},
"com.amazonaws.licensemanager#DeleteLicenseResponse": {
    "type": "structure",
    "members": {
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        },
        "DeletionDate": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date when the license is deleted.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#DeleteToken": {
    "type": "operation",
     "input": {
        "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
```

{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified token. Must be called in the license home Region. "
}
},
"com.amazonaws.licensemanager#DeleteTokenRequest": {
"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#DeleteTokenResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}

}
},
"com.amazonaws.licensemanager#DigitalSignatureMethod": {
"type": "enum",
"members": {
"JWT_PS384": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "JWT_PS384"
}
}
}
},
"com.amazonaws.licensemanager#Entitlement": {
"type": "structure",
"members": {
"Name": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement resource. Use only
if the unit is None. "
}
},
"MaxCount": {
"target": "com.amazonaws.licensemanager#Long",
"traits": {
"smithy.api#documentation": " Maximum entitlement count. Use if the unit is not None. "
}
},
"Overage": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether overages are allowed. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementUnit",
"traits": {
"smithy.api#documentation": " Entitlement unit. ",
"smithy.api#required": {}
}
},
"AllowCheckIn": {
"target":
"com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether check-ins are allowed. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a resource entitled for use with a license. "
}
},
"com.amazonaws.licensemanager#EntitlementData": {
"type": "structure",
"members": {
"Name": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement data name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement
data value. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementDataUnit",
"traits": {
"smithy.api#documentation": " Entitlement data unit. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Data associated with an entitlement resource. "
}
},
"com.amazonaws.licensemanager#EntitlementDataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#EntitlementData"
}
},
"com.amazonaws.licensemanager#EntitlementDataUnit": {
"type": "enum",
"members": {
"COUNT": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Count"
}
},
"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"SECONDS": {

"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Seconds"
}
},
"MICROSECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Microseconds"
}
},
"MILLISECONDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Milliseconds"
}
},
"BYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes"
}
},
"KILOBYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes"
}
},
"MEGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes"
}
},
"GIGABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes"
}
},
"TERABYTES": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabytes"
}
},
"BITS":

{
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"

}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"
}
},
"KILOBYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes/Second"
}

```
        },
        "MEGABYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Megabytes/Second"
          }
        },
        "GIGABYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
           "traits": {
            "smithy.api#enumValue": "Gigabytes/Second"
          }
        },
        "TERABYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Terabytes/Second"
          }
        },
        "BITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Bits/Second"
          }
        },
        "KILOBITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Kilobits/Second"
          }
        },
        "MEGABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue":
"Megabits/Second"
          }
        },
        "GIGABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Gigabits/Second"
          }
        },
        "TERABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Terabits/Second"
```

```
            }
        },
        "COUNT_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Count/Second"
            }
        }
    }
},
"com.amazonaws.licensemanager#EntitlementList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Entitlement"
    }
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#EntitlementUnit": {
    "type": "enum",
    "members": {
        "COUNT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Count"
            }
        },
        "NONE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "None"
            }
        },
        "SECONDS":
{
            "target": "smithy.api#Unit",
```

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    "traits": {
        "smithy.api#enumValue": "Seconds"
    }
},
"MICROSECONDS": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Microseconds"
    }
},
"MILLISECONDS": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Milliseconds"
    }
},
"BYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Bytes"
    }
},
"KILOBYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Kilobytes"
     }
},
"MEGABYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Megabytes"
    }
},
"GIGABYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Gigabytes"
    }
},
"TERABYTES": {
    "target": "smithy.api#Unit",
    "traits": {
        "smithy.api#enumValue": "Terabytes"
    }
},
"BITS": {
    "target": "smithy.api#Unit",
```

"traits": {
"smithy.api#enumValue": "Bits"
}
},
"KILOBITS": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Kilobits"
}
},
"MEGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits"
}
},
"GIGABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits"
}
},
"TERABITS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits"
}
},
"PERCENT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Percent"
}
},
"BYTES_PER_SECOND": {
"target":
"smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bytes/Second"
}
},
"KILOBYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobytes/Second"
}
},

"MEGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabytes/Second"
}
},
"GIGABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabytes/Second"
}
},
"TERABYTES_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {

"smithy.api#enumValue": "Terabytes/Second"
}
},
"BITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Bits/Second"
}
},
"KILOBITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Kilobits/Second"
}
},
"MEGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Megabits/Second"
}
},
"GIGABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Gigabits/Second"
}
},

"TERABITS_PER_SECOND": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Terabits/Second"

```
            }
        },
        "COUNT_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Count/Second"
            }
        }
    }
},
"com.amazonaws.licensemanager#EntitlementUsage": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                "smithy.api#required": {}
            }
        },
        "ConsumedValue": {
            "target": "com.amazonaws.licensemanager#String",

       "traits": {
                "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxCount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
    }
},
"com.amazonaws.licensemanager#EntitlementUsageList":
```

```
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
```

"smithy.api#required": {}

}
},
"DryRun": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#default": false,
"smithy.api#documentation": " Checks whether you have the required permissions for the action, without actually making the request. Provides an error response if you do not have the required permissions. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. "
}
},

"Expiration": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date and time at which the license consumption expires. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#FailedDependencyException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
},
"ErrorCode": {
"target": "com.amazonaws.licensemanager#String"
}
},

"traits": {
"aws.protocols#awsQueryError": {
"code": "FailedDependency",
"httpResponseCode": 424
},
"smithy.api#documentation":
" A dependency required to run the API is missing. ",
"smithy.api#error": "client",
"smithy.api#httpError": 424
}
},
"com.amazonaws.licensemanager#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#FilterName",
"traits": {
"smithy.api#documentation": " Name of the filter. Filter names are case-sensitive. "
}
},
"Values": {
"target": "com.amazonaws.licensemanager#FilterValues",
"traits": {
"smithy.api#documentation": " The value of the filter, which is case-sensitive. You can only
specify one value for the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter
name and value pair that is used to return more specific results from a\n describe operation. Filters can be used
to match a set of resources by specific criteria,\n such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanager#FilterLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "FilterLimitExceeded",
"httpResponseCode": 400
},
"smithy.api#documentation": " The request uses too many filters or too many filter values. ",
"smithy.api#error": "client",

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        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#FilterList": {
    "type": "list",
     "member": {
        "target": "com.amazonaws.licensemanager#Filter"
    }
},
"com.amazonaws.licensemanager#FilterName": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValue": {
    "type": "string"
},
"com.amazonaws.licensemanager#FilterValues": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#FilterValue",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#Filters": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Filter",
        "traits": {
            "smithy.api#xmlName": "item"
        }
    }
},
"com.amazonaws.licensemanager#GetAccessToken": {
    "type": "operation",
    "input": {
         "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
```

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            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access
 tokens\n          are valid for one hour.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenRequest": {
        "type": "structure",
        "members": {
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT
token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenResponse":
 {
        "type": "structure",
        "members": {
            "AccessToken": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Temporary access token.</p>"
                }
            }
```

```
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"

   },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
```

```
            "smithy.api#required": {}
          }
        },
        "Version": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Grant version.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#GetGrantResponse": {
      "type": "structure",
      "members": {
        "Grant": {
          "target": "com.amazonaws.licensemanager#Grant",
          "traits": {
            "smithy.api#documentation": "<p>Grant details.</p>"
          }
        }
      },
      "traits": {

    "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#GetLicense": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
```

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"

},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets detailed information about the specified license configuration. "
}
},
"com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
}
},
"traits":
{
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Unique ID for the license configuration. "
}
},
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension for which the licenses are counted. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",

"traits": {
"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",

"traits": {
"smithy.api#documentation": " Number of available licenses. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Sets the number of available licenses as a hard limit. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses assigned to resources. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License configuration status. "
}

},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},

"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When
true, disassociates a resource when software is uninstalled. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},

{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified license type conversion task. "
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task to retrieve information on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information

about the license type converted from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type converted to. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " Status of the license type conversion task. "
}
},

"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was started . "
}
},
"LicenseConversionTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Amount of time to complete the license type conversion. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time at which the license type conversion task was completed. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGenerator":

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{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

         },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
                    "smithy.api#required":
```

{}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"ReportGenerator": {
"target": "com.amazonaws.licensemanager#ReportGenerator",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic reports about your license configurations. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#GetLicenseResponse": {
"type": "structure",
"members": {

```
            "License": {
                "target": "com.amazonaws.licensemanager#License",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },

"com.amazonaws.licensemanager#GetLicenseUsage": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

"target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageRequest": {
        "type": "structure",
        "members": {
```

```
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageResponse": {
        "type": "structure",
        "members": {
            "LicenseUsage": {
                "target":
"com.amazonaws.licensemanager#LicenseUsage",
                "traits": {
                    "smithy.api#documentation": "<p>License usage details.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
```

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        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
discovery data,\n        and so on.</p>"

  }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>SNS topic configured to receive notifications from License
Manager.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether Organizations is integrated with License
Manager for\n        cross-account discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether cross-account discovery is enabled.</p>"
                }

        },
            "LicenseManagerResourceShareArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
```

Manager management account \n provides member accounts with access to this share. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#Grant": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"ParentArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Parent ARN. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. ",
"smithy.api#required": {}
}
},
"GranteePrincipalArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {

"smithy.api#documentation": " The grantee principal ARN. ",
"smithy.api#required": {}
}
},

```
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Home Region of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantStatus": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>",
                    "smithy.api#required": {}
                }
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status reason.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Granted operations.</p>",
                    "smithy.api#required": {}
                }
            },
            "Options": {
                "target": "com.amazonaws.licensemanager#Options",
                "traits": {
                    "smithy.api#documentation": "<p>The options specified for the grant.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
"<p>Describes a grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#GrantList": {
        "type": "list",
```

```
    "member": {
        "target": "com.amazonaws.licensemanager#Grant"
    }
},
"com.amazonaws.licensemanager#GrantStatus": {
    "type": "enum",
    "members": {
        "PENDING_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_WORKFLOW"
            }
        },
        "PENDING_ACCEPT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_ACCEPT"
            }
        },
        "REJECTED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "REJECTED"

        }
        },
        "ACTIVE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "ACTIVE"
            }
        },
        "FAILED_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        },
        "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
```

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            }
          },
          "DISABLED": {
            "target": "smithy.api#Unit",
            "traits":
{
              "smithy.api#enumValue": "DISABLED"
            }
          },
          "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#GrantedLicense": {
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
          },
          "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License name.</p>"
            }

  },
          "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Product name.</p>"
            }
          },
          "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Product SKU.</p>"
            }
          },
          "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
```

"smithy.api#documentation": " Granted license issuer. "
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the granted license. "

}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " Granted license status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the granted license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Granted license beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Granted license metadata. "
}
},
"CreateTime": {

"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Creation time of the granted license. "

}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Version of the granted license. "
}
},
"ReceivedMetadata": {
"target": "com.amazonaws.licensemanager#ReceivedMetadata",
"traits": {
"smithy.api#documentation": " Granted license received metadata. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a license that is granted to a grantee. "
}
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#GrantedLicense"
}
},
"com.amazonaws.licensemanager#ISO8601DateTime":
{
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
}
},
"com.amazonaws.licensemanager#Integer": {
"type": "integer"
},
"com.amazonaws.licensemanager#InvalidParameterValueException": {
"type": "structure",
"members": {
"Message": {

"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidParameterValueProvided",
"httpResponseCode": 400
},
"smithy.api#documentation":
" One or more parameter values are not valid. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#InvalidResourceStateException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidResourceState",
"httpResponseCode": 400
},
"smithy.api#documentation": " License Manager cannot allocate a license to a resource because of its state. \n For example, you cannot allocate a license to an instance in the process of shutting\n down. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},

"com.amazonaws.licensemanager#InventoryFilter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the filter. ",
"smithy.api#required": {}
}
},
"Condition": {
"target": "com.amazonaws.licensemanager#InventoryFilterCondition",
"traits": {
"smithy.api#documentation": " Condition of the filter. ",

```
                "smithy.api#required": {}
            }
        },
        "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Value of the filter.</p>"
            }
        }

},
    "traits": {
        "smithy.api#documentation": "<p>An inventory filter.</p>"
    }
  },
  "com.amazonaws.licensemanager#InventoryFilterCondition": {
    "type": "enum",
    "members": {
        "EQUALS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EQUALS"
            }
        },
        "NOT_EQUALS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "NOT_EQUALS"
            }
        },
        "BEGINS_WITH": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "BEGINS_WITH"
            }
        },
        "CONTAINS": {
            "target": "smithy.api#Unit",
            "traits": {
                 "smithy.api#enumValue": "CONTAINS"
            }
        }
    }
  },
  "com.amazonaws.licensemanager#InventoryFilterList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#InventoryFilter"
```

```
        }
    },
    "com.amazonaws.licensemanager#Issuer": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>",
                    "smithy.api#required": {}
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage
 of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about the issuer of a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#IssuerDetails": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer name.</p>"
                }
            },
            "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
                }
            },
            "KeyFingerprint": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
                }
            }
```

```
    },
    "traits": {
        "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
    }
},
"com.amazonaws.licensemanager#License": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

       "smithy.api#documentation": "<p>License name.</p>"
            }
        },
        "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product name.</p>"
            }
        },
        "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product SKU.</p>"
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>License issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

        "smithy.api#documentation": "<p>Home Region of the license.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
```

"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"Entitlements": {

"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " License metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License creation time. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}

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        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
    "type": "structure",
    "members": {
        "LicenseConfigurationId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
            }
        },
        "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
        },
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the license configuration.</p>"
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
                "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
             }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules.</p>"
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
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"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Number of available licenses as a hard limit. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the license configuration. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the license configuration's owner. "

}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for licenses consumed by various resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {

"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {

"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource consuming licenses. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " Time when the license configuration was associated with the resource. "
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an association with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
}
},
"com.amazonaws.licensemanager#LicenseConfigurationStatus": {
"type": "enum",
"members":
{
"AVAILABLE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "AVAILABLE"
}
},
"DISABLED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DISABLED"
}
}
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsage": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},

"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits":
{
"smithy.api#documentation": " Type of resource. "
}
},
"ResourceStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the account that owns the resource. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was initially associated with the resource. "
}
},

"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed by the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about the usage of a resource associated with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
}
},
"com.amazonaws.licensemanager#LicenseConfigurations": {
"type": "list",
"member": {

"target": "com.amazonaws.licensemanager#LicenseConfiguration"
}
},
"com.amazonaws.licensemanager#LicenseConversionContext": {

"type": "structure",
"members": {
"UsageOperation": {
"target": "com.amazonaws.licensemanager#UsageOperation",
"traits": {
"smithy.api#documentation": " The Usage operation value that corresponds to the license type you are converting your resource from. For more information about which platforms correspond to which usage operation values see Sample data: usage operation by platform\n \n "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTask": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {

"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the license type conversion task. "
}
},
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource associated with the license type\n conversion task. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted from. "
}
},
"DestinationLicenseContext": {
"target":

"com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted to. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " The status of the conversion task. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was started at. "
}
},
"LicenseConversionTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the usage operation value of the resource was changed. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was completed. "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTaskId": {
"type": "string",
"traits": {

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        "smithy.api#length": {
            "min": 0,
            "max": 50
        },
        "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
    }
  },
  "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
    "type": "enum",
    "members": {
      "IN_PROGRESS": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "IN_PROGRESS"
        }
      },
      "SUCCEEDED": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "SUCCEEDED"
        }
      },
      "FAILED": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "FAILED"
        }
      }
    }
  },
  "com.amazonaws.licensemanager#LicenseConversionTasks":
{
    "type": "list",
    "member": {
      "target": "com.amazonaws.licensemanager#LicenseConversionTask"
    }
  },
  "com.amazonaws.licensemanager#LicenseCountingType": {
    "type": "enum",
    "members": {
      "VCPU": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "vCPU"
        }
      },
      "INSTANCE": {
        "target": "smithy.api#Unit",
```

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            "traits": {
                "smithy.api#enumValue": "Instance"
            }
        },
        "CORE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Core"
            }
        },
        "SOCKET": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Socket"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {
    "type": "enum",
    "members": {
        "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {

    "type": "structure",
    "members": {
        "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Resource type. "
}
},
"ErrorMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Error message. "
}
},
"FailureTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " Failure time. "
}
},
"OperationName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the operation. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource. "
}
},
"OperationRequestedBy": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The requester is \"License Manager Automated Discovery\". "
}
},
"MetadataList": {

"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Reserved. "
}
}

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        },
        "traits": {
            "smithy.api#documentation": "<p>Describes the failure of a license operation.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseOperationFailureList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailure"
        }
    },
    "com.amazonaws.licensemanager#LicenseSpecification": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

                "smithy.api#required": {}
                }
            },
            "AmiAssociationScope": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details for associating a license configuration with a resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseSpecifications": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseSpecification"
        }
    },
    "com.amazonaws.licensemanager#LicenseStatus": {
        "type": "enum",
        "members": {
            "AVAILABLE": {
                "target": "smithy.api#Unit",
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        "traits": {
            "smithy.api#enumValue": "AVAILABLE"
        }
        },
        "PENDING_AVAILABLE": {
        "target": "smithy.api#Unit",
        "traits": {
            "smithy.api#enumValue": "PENDING_AVAILABLE"
        }
        },
        "DEACTIVATED": {
        "target": "smithy.api#Unit",
        "traits": {
            "smithy.api#enumValue": "DEACTIVATED"
        }
        },
        "SUSPENDED": {
        "target": "smithy.api#Unit",
        "traits": {
            "smithy.api#enumValue": "SUSPENDED"
        }
        },
        "EXPIRED": {
        "target": "smithy.api#Unit",
        "traits": {
            "smithy.api#enumValue": "EXPIRED"
        }
        },

      "PENDING_DELETE": {
        "target": "smithy.api#Unit",
        "traits": {
            "smithy.api#enumValue": "PENDING_DELETE"
        }
        },
        "DELETED": {
        "target": "smithy.api#Unit",
        "traits": {
            "smithy.api#enumValue": "DELETED"
        }
        }
    }
},
"com.amazonaws.licensemanager#LicenseUsage": {
    "type": "structure",
    "members": {
        "EntitlementUsages": {
            "target": "com.amazonaws.licensemanager#EntitlementUsageList",
```

"traits": {
"smithy.api#documentation": " License entitlement usages. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the entitlement usage associated with a license. "

}
},
"com.amazonaws.licensemanager#LicenseUsageException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "LicenseUsageFailure",
"httpResponseCode": 412
},
"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{

"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the resource associations for the
specified license configuration. \n Resource associations need not consume licenses from a license
configuration. \n For example, an AMI or a stopped instance might not consume a license (depending on \n
the license rules). "
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results
to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationAssociations": {

"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license configuration. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants distributed for the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
        "type": "structure",
        "members": {
            "GrantArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {

            "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>LicenseArn</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                <code>GrantStatus</code>\n                </p>\n            </li>\n
    <li>\n                <p>\n                <code>GranteePrincipalARN</code>\n                </p>\n            </li>\n
<li>\n                <p>\n                <code>ProductSKU</code>\n                </p>\n            </li>\n            <li>\n
<p>\n                <code>LicenseIssuerName</code>\n
        </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
        "type": "structure",
        "members": {
            "Grants": {
```

"target": "com.amazonaws.licensemanager#GrantList",

"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configuration operations that failed. "
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {

"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name of the license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse": {
"type": "structure",
"members": {
"LicenseOperationFailureList": {
"target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
"traits": {
"smithy.api#documentation": " License configuration operations that failed. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurations": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
},

"output": {
"target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configurations
for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the license
configurations. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}

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            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next
 set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n                Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n                Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n                <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n                Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n
    </li>\n            <li>\n                <p>\n                <code>usagelimitExceeded</code> - A Boolean value that
indicates whether the available licenses have been exceeded. \n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurations": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurations",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",

          "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
```

```
    }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasks": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
    "type": "structure",
    "members": {
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {

"smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "Filters": {
```

"target": "com.amazonaws.licensemanager#Filters",
"traits": {
"smithy.api#documentation": " \n Filters to scope the results. Valid filters are <code>ResourceArns</code> and <code>Status</code>.\n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
"type": "structure",
"members": {
"LicenseConversionTasks": {
"target": "com.amazonaws.licensemanager#LicenseConversionTasks",
"traits": {
"smithy.api#documentation": " Information about the license configuration tasks for your account. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the report generators for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest":
{
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:
</p>\n        <ul>\n            <li>\n                <p>\n                    <code>LicenseConfigurationArn</code>\n
</p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits":
{
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
```

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        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
            "ReportGenerators": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorList",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }

        }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Describes the license configurations for the specified resource. "
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a resource that has an associated license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {

"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
"type": "structure",
"members": {
"LicenseSpecifications": {
"target": "com.amazonaws.licensemanager#LicenseSpecifications",
"traits": {
"smithy.api#documentation": " License configurations associated with a resource. "
}
},
"NextToken": {

```
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
```

```
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
        "type": "structure",
        "members": {
            "Licenses": {
                "target": "com.amazonaws.licensemanager#LicenseList",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            },

"NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenses": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicensesRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicensesResponse"
        },
        "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the licenses for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicensesRequest": {
        "type": "structure",
        "members": {
            "LicenseArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
                }
            },

    "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n    <ul>\n        <li>\n            <p>\n                <code>Beneficiary</code>\n            </p>\n
    </li>\n        <li>\n            <p>\n                <code>ProductSKU</code>\n            </p>\n        </li>\n
  <li>\n            <p>\n                <code>Fingerprint</code>\n            </p>\n        </li>\n        <li>\n
<p>\n                <code>Status</code>\n            </p>\n        </li>\n    </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token
```

for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListLicensesResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#LicenseList",
"traits": {
"smithy.api#documentation": " License details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists grants that are received. Received grants are grants created while specifying the\n recipient as this Amazon Web Services account, your organization, or an organizational unit\n (OU) to which this member account belongs. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},

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            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants received for all accounts in the organization.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the received license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n
    <ul>\n        <li>\n            <p>\n                <code>ParentArn</code>\n            </p>\n        </li>\n
<li>\n            <p>\n                <code>GranteePrincipalArn</code>\n            </p>\n        </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
```

"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Lists the grants the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
"type": "structure",
"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n \n \n \n \n <code>LicenseArn</code>\n \n \n \n \n <code>GrantStatus</code>\n \n \n \n \n <code>GranterAccountId</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},

```
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
    "type": "structure",
    "members": {
        "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
             "traits": {
                "smithy.api#documentation": "<p>Received grant details.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
         },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists received licenses.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {

    "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
```

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the licenses received for all accounts in the organization. "
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>Beneficiary</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
"type": "structure",
"members": {
"Licenses": {
"target": "com.amazonaws.licensemanager#GrantedLicenseList",
"traits": {
"smithy.api#documentation": " Lists the licenses the organization has received. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
"type": "structure",
"members": {
"LicenseArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the licenses. "
}
},

"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>Fingerprint</code>\n \n \n \n \n <code>IssuerName</code>\n \n \n \n \n <code>Beneficiary</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
"type": "structure",

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    "members": {
      "Licenses": {
        "target": "com.amazonaws.licensemanager#GrantedLicenseList",
        "traits": {
          "smithy.api#documentation": "<p>Received license details.</p>"
        }
      },

      "NextToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#ListResourceInventory": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#FailedDependencyException"
      },
      {
        "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
```

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                 "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#InventoryFilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource.\n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                    <code>application_name</code> - The name of the application. \n                Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n    </li>\n            <li>\n                <p>\n                    <code>license_included</code> - The type of license included. \n            Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n                Possible values are <code>sql-server-enterprise</code> | \n                <code>sql-server-standard</code> | \n                <code>sql-server-web</code> |  \n                <code>windows-server-datacenter</code>.</p>\n            </li>\n            <li>\n    <p>\n                    <code>platform</code> - The platform of the resource.\n                Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n            </li>\n            <li>\n                <p>\n        <code>resource_id</code> - The ID of the resource. \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n      <code>tag:<key></code> - The key/value combination of a tag assigned \n                to the resource. Logical operators are <code>EQUALS</code> (single account) or\n                <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account).</p>\n            </li>\n        </ul>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
```

"com.amazonaws.licensemanager#ListResourceInventoryResponse": {
"type": "structure",
"members": {
"ResourceInventoryList": {
"target": "com.amazonaws.licensemanager#ResourceInventoryList",
"traits": {
"smithy.api#documentation": " Information
about the resources. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListTagsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the tags for the specified license configuration. "

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        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the tags.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors":
[
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
```

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
            "TokenIds": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {

                  "smithy.api#documentation": "<p>Token IDs.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
    <ul>\n        <li>\n        <p>\n        <code>LicenseArns</code>\n        </p>\n        </li>\n
</ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation":
 "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
```

```
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokensResponse": {
        "type": "structure",
        "members": {
            "Tokens": {
                "target": "com.amazonaws.licensemanager#TokenList",
                "traits": {
                    "smithy.api#documentation": "<p>Received token details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying license\n        consumption details by resource at a selected point in time. Use this action to audit the\n        current license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>resourceArn</code> - The ARN of the license configuration resource.\n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>resourceAccount</code> - The ID of the account that owns the resource. \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
                }
            }
```

```
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
        "type": "structure",
        "members": {

"LicenseConfigurationUsageList": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Location": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#Long": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#ManagedResourceSummary": {
        "type": "structure",
        "members": {
            "ResourceType":
{
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
                }
            },
            "AssociationCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
                }
            }
```

```
    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {

"type": "integer",
    "traits": {
        "smithy.api#range": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The key name.</p>"
            }
        },

"Value": {
            "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " The value. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes key/value pairs. "
}
},
"com.amazonaws.licensemanager#MetadataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Metadata"
}
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#Options": {
"type": "structure",
"members": {
"ActivationOverrideBehavior": {
"target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
"traits": {
"smithy.api#documentation": " An activation option for your grant that determines the behavior of activating a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter. \n \n \n As a license administrator, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant. \n \n \n As a grantor, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your organization. \n \n \n As a grantee, if the grantor creating the distributed grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n are activating the grant. \n \n \n <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n Use this value to activate a grant without replacing any member accounts\n active grants for the same product. \n </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n Use this value to activate a

grant and disable other active grants in any\n member accounts
for the same product. This action will also replace their\n previously activated grants with this activated grant. \n </dd>\n </dl>"
}
}
},
"traits": {
"smithy.api#documentation": " The options you can specify when you create a new version of a grant, such as activation\n override behavior. For more information, see Granted licenses in License Manager in the License Manager User Guide. "
}
},
"com.amazonaws.licensemanager#OrganizationConfiguration": {
"type": "structure",
"members": {
"EnableIntegration": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#default": false,
"smithy.api#documentation": " Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n <code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n \n ",
"smithy.api#required": {}
}
}
},

```
    "traits": {
        "smithy.api#documentation": "<p>Describes product information for a license configuration.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
    "type": "structure",
    "members": {
        "ProductInformationFilterName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Filter name.</p>",
                "smithy.api#required": {}
            }
        },
        "ProductInformationFilterValue": {
            "target": "com.amazonaws.licensemanager#StringList",

      "traits": {
                "smithy.api#documentation": "<p>Filter value.</p>"
            }
        },
        "ProductInformationFilterComparator": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Logical operator.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes product information filters.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformationFilter"
    }
},
"com.amazonaws.licensemanager#ProductInformationList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformation"
     }
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
    "type": "structure",
    "members": {
```

"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the provisional configuration, in minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details about a provisional configuration. "
}
},
"com.amazonaws.licensemanager#RateLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "RateLimitExceeded",
"httpResponseCode": 429
},
"smithy.api#documentation": " Too many requests have been submitted. Try again after a brief wait. ",
"smithy.api#error": "client",
"smithy.api#httpError": 429
}
},
"com.amazonaws.licensemanager#ReceivedMetadata": {
"type": "structure",
"members": {
"ReceivedStatus": {
"target": "com.amazonaws.licensemanager#ReceivedStatus",
"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Received status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",

"traits": {
"smithy.api#documentation": " Allowed operations. "
}
}
},
"traits": {
"smithy.api#documentation": " Metadata associated with received licenses and grants. "
}
},
"com.amazonaws.licensemanager#ReceivedStatus": {
"type": "enum",
"members": {
"PENDING_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "PENDING_WORKFLOW"
}
},
"PENDING_ACCEPT": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue":
"PENDING_ACCEPT"
}
},
"REJECTED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REJECTED"
}
},
"ACTIVE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "ACTIVE"
}
},
"FAILED_WORKFLOW": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "FAILED_WORKFLOW"
}
},
"DELETED": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DELETED"
}

```
        },
        "DISABLED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DISABLED"
            }
        },
        "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#RedirectException": {
    "type": "structure",
    "members": {
        "Location": {
            "target": "com.amazonaws.licensemanager#Location",
            "traits": {
                "smithy.api#httpHeader": "Location"
            }
        },
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 308
    }
},
"com.amazonaws.licensemanager#RejectGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#RejectGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#RejectGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}

  }
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
```

"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#RenewType":
{
"type": "enum",
"members": {
"NONE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "None"
}
},
"WEEKLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Weekly"
}
},
"MONTHLY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "Monthly"
}
}
}
},
"com.amazonaws.licensemanager#ReportContext": {
"type": "structure",
"members": {
"licenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details of the license configuration that this generator reports on. "
}
},
"com.amazonaws.licensemanager#ReportFrequency": {
"type": "structure",
"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "
}
},
"period": {
"target": "com.amazonaws.licensemanager#ReportFrequencyType",

"traits": {
"smithy.api#documentation": " Time period between each report. The period can be daily, weekly, or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"com.amazonaws.licensemanager#ReportFrequencyType": {
"type": "enum",
"members": {
"DAY": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "DAY"
}
},
"WEEK": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "WEEK"
}
},

"MONTH": {
"target": "smithy.api#Unit",
"traits":
{
"smithy.api#enumValue": "MONTH"
}
}
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the report generator. "
}
},
"ReportType": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports that are generated. "
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " License
configuration type for this generator. "
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. "
}
},
"LastRunStatus": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the last report generation attempt. "
}

},
"LastRunFailureReason":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Failure message for the last report generation attempt. "
}
},
"LastReportGenerationTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the last report was generated at. "
}
},
"ReportCreatorAccount": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Web Services account ID used to create the report generator. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",

"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the report was created. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags associated with the report generator. "
}

}
    },
    "traits": {
        "smithy.api#documentation": " Describe the details of a report generator. "
    }
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportGenerator"
    }
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#ReportType": {
    "type": "enum",
    "members": {
        "LICENSE_CONFIGURATION_SUMMARY_REPORT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "LicenseConfigurationSummaryReport"
            }

},
        "LICENSE_CONFIGURATION_USAGE_REPORT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "LicenseConfigurationUsageReport"
            }
        }
    }
},
"com.amazonaws.licensemanager#ReportTypeList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportType"
    }
},
"com.amazonaws.licensemanager#ResourceInventory": {
    "type": "structure",
    "members": {

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            "ResourceId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits":
{
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "Platform": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform of the resource.</p>"
                }
            },
            "PlatformVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
                }
            },
            "ResourceOwningAccountId":
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ResourceInventoryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ResourceInventory"
        }
```

```
},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "ResourceLimitExceeded",

         "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>Your resource limits have been exceeded.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "InvalidResource.NotFound",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The resource cannot be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceType": {
    "type": "enum",
     "members": {
        "EC2_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_INSTANCE"
            }
        },
        "EC2_HOST": {
            "target": "smithy.api#Unit",
            "traits": {
```

"smithy.api#enumValue": "EC2_HOST"
}
},
"EC2_AMI": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "EC2_AMI"
}
},
"RDS": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "RDS"
}
},
"SYSTEMS_MANAGER_MANAGED_INSTANCE": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
}
}
}
},
"com.amazonaws.licensemanager#S3Location": {
"type": "structure",
"members": {
"bucket": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the S3 bucket reports are published to. "
}
},
"keyPrefix": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Prefix of the S3 bucket reports are published to. "
}
}
},
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
"type": "structure",
"members": {
"Message": {

"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InternalError",
"httpResponseCode": 500
},
"smithy.api#documentation": " The server experienced an internal error. Try again. ",
"smithy.api#error": "server",
"smithy.api#httpError": 500
}
},
"com.amazonaws.licensemanager#SignedToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 4096
}
}
},
"com.amazonaws.licensemanager#StatusReasonMessage": {
"type": "string",
"traits":
{
"smithy.api#length": {
"min": 0,
"max": 400
},
"smithy.api#pattern": "^[\\s\\S]+$"
}
},
"com.amazonaws.licensemanager#String": {
"type": "string"
},
"com.amazonaws.licensemanager#StringList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#String"
}
},
"com.amazonaws.licensemanager#Tag": {
"type": "structure",
"members": {
"Key": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Tag key. "

```
            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation":
"<p>Tag value.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#String"
        }
      },
      "com.amazonaws.licensemanager#TagList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#Tag"
        }
      },
      "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
          {
            "target":
"com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
```

```
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits":
 {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>One or more tags.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
```

"TokenType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Type of token generated. The supported value is <code>REFRESH_TOKEN</code>. "
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"ExpirationTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Token expiration time, in ISO8601-UTC format. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller. "
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the roles included in the token. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. "
}
}
},
"traits": {

"smithy.api#documentation": " Describes a token. "
}
},
"com.amazonaws.licensemanager#TokenList": {
"type": "list",

"member": {
"target": "com.amazonaws.licensemanager#TokenData"
}
},
"com.amazonaws.licensemanager#TokenString": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 4096
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#TokenType": {
"type": "enum",
"members": {
"REFRESH_TOKEN": {
"target": "smithy.api#Unit",
"traits": {
"smithy.api#enumValue": "REFRESH_TOKEN"
}
}
}
},
"com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException":
{
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The digital signature method is unsupported. Try your request
again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#UntagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UntagResourceResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Removes the specified tags from the specified license configuration. "
}
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",
"traits": {
"smithy.api#documentation": " Keys identifying the tags to remove. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
"type": "structure",
"members": {},

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
},
"output": {

"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Modifies the attributes of an existing license configuration. "
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},

"LicenseConfigurationStatus": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
"traits": {
"smithy.api#documentation": " New status of the license configuration. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {

"smithy.api#documentation": " New license rule. The only rule that you can add after you create a license\n configuration is licenseAffinityToHost. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " New number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}
},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",

"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
},
"traits":
{
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},

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            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates a report generator.</p>\n        <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to update.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportGeneratorName": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>",
                    "smithy.api#required": {}
                }
            },
            "Type": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports to generate. The following report types are supported:</p>\n        <ul>\n            <li>\n                <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p>\n            </li>\n            <li>\n                <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n            </li>\n        </ul>",
                    "smithy.api#required": {}
                }
            },
            "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
                    "smithy.api#documentation": "<p>The report context.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportFrequency": {
                "target": "com.amazonaws.licensemanager#ReportFrequency",
```

"traits":
{
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },

            {
                "target": "com.amazonaws.licensemanager#InvalidResourceStateException"
            },
            {
                "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p>\n        <p>You can update the license specifications of AMIs, instances, and
hosts.\n        You cannot update the license specifications for launch templates and CloudFormation templates, \n
  as they send license configurations to the operation that creates the resource.</p>"
        }
    },

    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "AddLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
                }
            },
            "RemoveLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation":
 "<p>ARNs of the license configurations to remove.</p>"
                }
```

```
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {},
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
    }
},
"com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
    "type": "structure",
    "members": {
        "S3BucketArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon S3 bucket where the License
Manager information is stored. "
}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Enables integration with Organizations for cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Activates cross-account discovery. "

}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UsageOperation": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
}
}
},
"com.amazonaws.licensemanager#ValidationException": {

```
            "type": "structure",
            "members": {
                "Message": {
                    "target": "com.amazonaws.licensemanager#Message"
                }
            },
            "traits": {
                "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",

        "smithy.api#error": "client",
                "smithy.api#httpError": 400
            }
        }
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {
```

```
 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version
 of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack,
 options); err != nil {
  return err
```

```
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if
 err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
```

```
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
```

1.4339 klauspost-compress 1.17.11

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1.4350 contrib-samplers-jaegerremote 0.23.0

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1.4351 grpchan 1.1.1

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1.4352 arrow-go 15.0.2

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1.4355 prometheus 0.300.1

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// versions:
//  protoc-gen-go v1.35.2
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1alpha/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
```

```
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
```

```
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string
 {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}
```

```
// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service
 accounts, you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1alpha.P
ermission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1alpha.Permission_Role,oneof"
json:"role,omitempty"`
}
```

```
func (x *Permission) Reset() {
 *x = Permission{}
 mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
 {
 mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
```

```
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var
 File_google_ai_generativelanguage_v1alpha_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc = []byte{
 0x0a, 0x35, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
 0x6e, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x24, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e,
 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x1a, 0x1f, 0x67,
 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f,
 0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19,
 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75,
 0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x87, 0x05, 0x0a, 0x0a, 0x50, 0x65,
 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65,
 0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04,
 0x6e, 0x61, 0x6d, 0x65, 0x12, 0x6c, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
 0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3c, 0x2e, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68,
 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61,
 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05,
 0x48, 0x00, 0x52, 0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65,
 0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
 0x01, 0x01, 0x12, 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72,
 0x65, 0x73, 0x73, 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41,
 0x05, 0x48, 0x01, 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73,
 0x73, 0x88, 0x01, 0x01, 0x12, 0x53, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01,
 0x28, 0x0e, 0x32, 0x35, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67,
 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73,
 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02,
 0x52, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61,
 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41,
```

```
 0x4e,
 0x54, 0x45, 0x45, 0x5f, 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49,
 0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01,
 0x12, 0x09, 0x0a, 0x05, 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45,
 0x56, 0x45, 0x52, 0x59, 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c,
 0x65, 0x12, 0x14, 0x0a, 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43,
 0x49, 0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52,
 0x10, 0x01, 0x12, 0x0a, 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a,
 0x0a, 0x06, 0x52, 0x45, 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6,
 0x01, 0x0a, 0x2c, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12,
 0x32, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75,
 0x6e, 0x65, 0x64, 0x5f, 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69,
 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69,
 0x6f, 0x6e, 0x7d, 0x12, 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f,
 0x72, 0x70, 0x75, 0x73, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b,
 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e,
 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61,
 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73,
 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72,
 0x6f, 0x6c, 0x65, 0x42, 0x9d, 0x01, 0x0a, 0x28, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67,
 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65,
 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61,
 0x42, 0x0f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74,
 0x6f, 0x50, 0x01, 0x5a, 0x5e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61,
 0x70, 0x69, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61,
 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67,
 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75,
 0x61, 0x67,
 0x65, 0x70, 0x62, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData)
```

```
 })
 return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes
 = []any{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1alpha.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1alpha.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1alpha.Permission
}
var file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1alpha.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1alpha.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1alpha.Permission.role:type_name ->
google.ai.generativelanguage.v1alpha.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1alpha_permission_proto_init()
 }
func file_google_ai_generativelanguage_v1alpha_permission_proto_init() {
 if File_google_ai_generativelanguage_v1alpha_permission_proto != nil {
  return
 }
 file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:           file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs,
  EnumInfos:         file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1alpha_permission_proto = out.File
 file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
```

```
 = nil
 file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes = nil
 file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = nil
}
// Copyright 2024 Google LLC
//
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// you may not use this file except in compliance with the License.
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//
//      http://www.apache.org/licenses/LICENSE-2.0
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//     https://www.apache.org/licenses/LICENSE-2.0
//
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// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleLicensesClient_List_all() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications
```

```
 to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 for resp, err := range c.List(ctx, req).All() {
  if err != nil {
   // TODO: Handle error and break/return/continue. Iteration will stop after any error.
  }
  // TODO: Use resp.
  _ = resp
 }
}
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package procurement_test

import (
 "context"

 procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
 procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
 longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
 "google.golang.org/api/iterator"
)
```

```
func ExampleNewLicenseManagementClient() {
 ctx
 := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleNewLicenseManagementRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c,
 err := procurement.NewLicenseManagementRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseManagementClient_Assign() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
```

```
 defer c.Close()

 req := &procurementpb.AssignRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#AssignRequest.
 }
 resp, err := c.Assign(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 //
 TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_EnumerateLicensedUsers() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.EnumerateLicensedUsersRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
dUsersRequest.
 }
 it := c.EnumerateLicensedUsers(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  //
 TODO: Use resp.
  _ = resp
```

```
  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*procurementpb.EnumerateLicensedUsersResponse)
 }
}

func ExampleLicenseManagementClient_GetLicensePool() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.GetLicensePoolRequest{
  // TODO: Fill request struct fields.
  //
 See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#GetLicensePoolRe
quest.
 }
 resp, err := c.GetLicensePool(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_Unassign() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()
```

```
 req := &procurementpb.UnassignRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UnassignRequest.
 }
 resp,
 err := c.Unassign(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_UpdateLicensePool() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.UpdateLicensePoolRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UpdateLicensePoo
lRequest.
 }
 resp, err := c.UpdateLicensePool(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 //
 TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_GetOperation() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
```

```
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &longrunningpb.GetOperationRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/longrunning/autogen/longrunningpb#GetOperationRequest.
 }
 resp, err := c.GetOperation(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
```

```
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
```

```
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
}
resp,
err := c.Get(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_Insert()
```

```
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
```

```
 resp, err := it.Next()
 if err == iterator.Done {
  break
 }
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp

 // If you need to access the underlying RPC response,
 // you can do so by casting the `Response` as below.
 // Otherwise, remove this line. Only populated after
 // first call to Next(). Not safe for concurrent access.
 _ = it.Response.(*computepb.LicensesListResponse)
}
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically
```

```
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

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package compute

import (
 "bytes"
 "context"
 "fmt"
 "log/slog"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
```

```
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var
 newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete             []gax.CallOption
 Get                []gax.CallOption
 GetIamPolicy       []gax.CallOption
 Insert             []gax.CallOption
 List               []gax.CallOption
 SetIamPolicy       []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
```

```
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 Insert: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 List: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 SetIamPolicy: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 TestIamPermissions: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
}
}

//
 internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}
```

```
// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection
 to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
```

```
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty
 if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses,
 use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners
 who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licensesRESTClient struct {
```

```
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions

 logger *slog.Logger
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
  logger:      internaloption.GetLogger(opts),
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC
```

```
 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient
 with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
```

```
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client
 and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Delete")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf,
 resp); err != nil {
   return err
  }

  return nil
```

```
 }, opts...)
 if e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders,
 hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
  if err != nil {
```

```
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
 exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds,
 "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
```

```
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetIamPolicy")
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended
 for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }
```

```
baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx,
hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Insert")
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

```
// List retrieves the
 list of licenses available in the specified project. This method does not get any licenses that belong to other projects,
including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available
licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32
  {
   req.MaxResults = proto.Uint32(uint32(math.MaxInt32))
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
  }
  if req != nil && req.MaxResults != nil {
   params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
  }
  if req != nil && req.OrderBy != nil {
   params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
  }
  if req != nil && req.PageToken != nil {
   params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
  }
  if req != nil && req.ReturnPartialSuccess != nil {
   params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
  }

  baseUrl.RawQuery = params.Encode()

  // Build HTTP headers from
```

```
client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "List")
  if err != nil {
   return err
  }
  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken,
nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
```

```
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds
 := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()),
"resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "SetIamPolicy")
  if err != nil {
   return err
  }

  if
```

```
 err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
```

```
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
  if err !=
 nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
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//     https://www.apache.org/licenses/LICENSE-2.0
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
```

```
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package procurement_test

import (
 "context"

 procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
 procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
)

func ExampleLicenseManagementClient_EnumerateLicensedUsers_all() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.EnumerateLicensedUsersRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
dUsersRequest.
 }
 for resp, err := range c.EnumerateLicensedUsers(ctx, req).All() {
  if err != nil {
   // TODO: Handle error and break/return/continue. Iteration will stop after any error.
  }
  // TODO: Use resp.
  _ = resp
 }
}
```

```
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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc        v4.25.3
// source: google/cloud/commerce/consumer/procurement/v1/license_management_service.proto

package procurementpb

import (
 context "context"
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 grpc "google.golang.org/grpc"
 codes "google.golang.org/grpc/codes"
 status
 "google.golang.org/grpc/status"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
```

```
 durationpb "google.golang.org/protobuf/types/known/durationpb"
 fieldmaskpb "google.golang.org/protobuf/types/known/fieldmaskpb"
 timestamppb "google.golang.org/protobuf/types/known/timestamppb"
)

const (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Assignment protocol for a license pool.
type AssignmentProtocol struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // The type of assignment protocol.
 //
 // Types that are assignable to AssignmentType:
 //
 // *AssignmentProtocol_ManualAssignmentType_
 // *AssignmentProtocol_AutoAssignmentType_
 AssignmentType
 isAssignmentProtocol_AssignmentType `protobuf_oneof:"assignment_type"`
}

func (x *AssignmentProtocol) Reset() {
 *x = AssignmentProtocol{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol) ProtoMessage() {}

func (x *AssignmentProtocol) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
```

```
  ms.StoreMessageInfo(mi)
 }
 return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
 []int{0}
}

func (m *AssignmentProtocol) GetAssignmentType() isAssignmentProtocol_AssignmentType {
 if m != nil {
  return m.AssignmentType
 }
 return nil
}

func (x *AssignmentProtocol) GetManualAssignmentType() *AssignmentProtocol_ManualAssignmentType {
 if x, ok := x.GetAssignmentType().(*AssignmentProtocol_ManualAssignmentType_); ok {
  return x.ManualAssignmentType
 }
 return nil
}

func (x *AssignmentProtocol) GetAutoAssignmentType() *AssignmentProtocol_AutoAssignmentType {
 if x, ok := x.GetAssignmentType().(*AssignmentProtocol_AutoAssignmentType_); ok {
  return x.AutoAssignmentType
 }
 return nil
}

type isAssignmentProtocol_AssignmentType interface {
 isAssignmentProtocol_AssignmentType()
}

type AssignmentProtocol_ManualAssignmentType_ struct {
 // Allow manual assignments triggered by administrative operations only.
 ManualAssignmentType *AssignmentProtocol_ManualAssignmentType
`protobuf:"bytes,2,opt,name=manual_assignment_type,json=manualAssignmentType,proto3,oneof"`
}

type
 AssignmentProtocol_AutoAssignmentType_ struct {
 // Allow automatic assignments triggered by data plane operations.
```

```
 AutoAssignmentType *AssignmentProtocol_AutoAssignmentType
`protobuf:"bytes,3,opt,name=auto_assignment_type,json=autoAssignmentType,proto3,oneof"`
}

func (*AssignmentProtocol_ManualAssignmentType_) isAssignmentProtocol_AssignmentType() {}

func (*AssignmentProtocol_AutoAssignmentType_) isAssignmentProtocol_AssignmentType() {}

// A license pool represents a pool of licenses that can be assigned to users.
type LicensePool struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Identifier. Format:
 // `billingAccounts/{billing_account}/orders/{order}/licensePool`
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Required. Assignment protocol for the license pool.
 LicenseAssignmentProtocol *AssignmentProtocol
`protobuf:"bytes,2,opt,name=license_assignment_protocol,json=licenseAssignmentProtocol,proto3"
 json:"license_assignment_protocol,omitempty"`
 // Output only. Licenses count that are available to be assigned.
 AvailableLicenseCount int32
`protobuf:"varint,3,opt,name=available_license_count,json=availableLicenseCount,proto3"
json:"available_license_count,omitempty"`
 // Output only. Total number of licenses in the pool.
 TotalLicenseCount int32 `protobuf:"varint,4,opt,name=total_license_count,json=totalLicenseCount,proto3"
json:"total_license_count,omitempty"`
}

func (x *LicensePool) Reset() {
 *x = LicensePool{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *LicensePool) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*LicensePool) ProtoMessage() {}

func (x *LicensePool) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
 if
```

```
 x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use LicensePool.ProtoReflect.Descriptor instead.
func (*LicensePool) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{1}
}

func (x *LicensePool) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *LicensePool) GetLicenseAssignmentProtocol() *AssignmentProtocol {
 if x != nil {
  return x.LicenseAssignmentProtocol
 }
 return nil
}

func (x *LicensePool) GetAvailableLicenseCount() int32 {
 if x != nil {
  return x.AvailableLicenseCount
 }
 return 0
}

func (x *LicensePool) GetTotalLicenseCount() int32 {
 if x != nil {
  return x.TotalLicenseCount
 }
 return 0
}

// Request message for getting a
 license pool.
type GetLicensePoolRequest struct {
```

```
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. The name of the license pool to get.
 // Format: `billingAccounts/{billing_account}/orders/{order}/licensePool`
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
}

func (x *GetLicensePoolRequest) Reset() {
 *x = GetLicensePoolRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *GetLicensePoolRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*GetLicensePoolRequest) ProtoMessage() {}

func (x *GetLicensePoolRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if
 ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use GetLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*GetLicensePoolRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{2}
}

func (x *GetLicensePoolRequest) GetName() string {
 if x != nil {
  return x.Name
 }
```

```
 return ""
}

// Request message for updating a license pool.
type UpdateLicensePoolRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. The license pool to update.
 //
 // The license pool's name field is used to identify the license pool to
 // update. Format:
 // `billingAccounts/{billing_account}/orders/{order}/licensePool`.
 LicensePool *LicensePool `protobuf:"bytes,1,opt,name=license_pool,json=licensePool,proto3"
json:"license_pool,omitempty"`
 //
 Required. The list of fields to update.
 UpdateMask *fieldmaskpb.FieldMask `protobuf:"bytes,2,opt,name=update_mask,json=updateMask,proto3"
json:"update_mask,omitempty"`
}

func (x *UpdateLicensePoolRequest) Reset() {
 *x = UpdateLicensePoolRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *UpdateLicensePoolRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*UpdateLicensePoolRequest) ProtoMessage() {}

func (x *UpdateLicensePoolRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}
```

```
// Deprecated: Use UpdateLicensePoolRequest.ProtoReflect.Descriptor
 instead.
func (*UpdateLicensePoolRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{3}
}

func (x *UpdateLicensePoolRequest) GetLicensePool() *LicensePool {
 if x != nil {
  return x.LicensePool
 }
 return nil
}

func (x *UpdateLicensePoolRequest) GetUpdateMask() *fieldmaskpb.FieldMask {
 if x != nil {
  return x.UpdateMask
 }
 return nil
}

// Request message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementServic
e.Assign].
type AssignRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. License pool name.
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Required. Username.
 // Format: `name@domain.com`.
 Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func
 (x *AssignRequest) Reset() {
 *x = AssignRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}
```

```
func (x *AssignRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignRequest) ProtoMessage() {}

func (x *AssignRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignRequest.ProtoReflect.Descriptor instead.
func (*AssignRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{4}
}

func (x *AssignRequest) GetParent()
 string {
 if x != nil {
  return x.Parent
 }
 return ""
}

func (x *AssignRequest) GetUsernames() []string {
 if x != nil {
  return x.Usernames
 }
 return nil
}

// Response message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementServic
e.Assign].
type AssignResponse struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
```

```
 unknownFields protoimpl.UnknownFields
}

func (x *AssignResponse) Reset() {
 *x = AssignResponse{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignResponse) ProtoMessage() {}

func (x *AssignResponse) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
 if x
 != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignResponse.ProtoReflect.Descriptor instead.
func (*AssignResponse) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{5}
}

// Request message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. License pool name.
```

```
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Required. Username.
 // Format: `name@domain.com`.
 Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func (x *UnassignRequest) Reset()
 {
 *x = UnassignRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *UnassignRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*UnassignRequest) ProtoMessage() {}

func (x *UnassignRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use UnassignRequest.ProtoReflect.Descriptor instead.
func (*UnassignRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{6}
}

func (x *UnassignRequest) GetParent() string {
 if x != nil {
  return
 x.Parent
 }
 return ""
}
```

```
func (x *UnassignRequest) GetUsernames() []string {
 if x != nil {
  return x.Usernames
 }
 return nil
}

// Response message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignResponse struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
}

func (x *UnassignResponse) Reset() {
 *x = UnassignResponse{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *UnassignResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*UnassignResponse) ProtoMessage() {}

func (x *UnassignResponse) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
 if x != nil {
  ms
 := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use UnassignResponse.ProtoReflect.Descriptor instead.
func (*UnassignResponse) Descriptor() ([]byte, []int) {
```

```
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{7}
}

// Request message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. License pool name.
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Optional. The maximum number of users to return. The service may return
 // fewer than this value.
 PageSize int32 `protobuf:"varint,2,opt,name=page_size,json=pageSize,proto3"
 json:"page_size,omitempty"`
 // Optional. A page token, received from a previous `EnumerateLicensedUsers`
 // call. Provide this to retrieve the subsequent page.
 PageToken string `protobuf:"bytes,3,opt,name=page_token,json=pageToken,proto3" json:"page_token,omitempty"`
}

func (x *EnumerateLicensedUsersRequest) Reset() {
 *x = EnumerateLicensedUsersRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersRequest) ProtoMessage() {}

func (x *EnumerateLicensedUsersRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo()
 == nil {
   ms.StoreMessageInfo(mi)
  }
```

```
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersRequest.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{8}
}

func (x *EnumerateLicensedUsersRequest) GetParent() string {
 if x != nil {
  return x.Parent
 }
 return ""
}

func (x *EnumerateLicensedUsersRequest) GetPageSize() int32 {
 if x != nil {
  return x.PageSize
 }
 return 0
}

func (x *EnumerateLicensedUsersRequest) GetPageToken() string {
 if x != nil {
  return x.PageToken
 }
 return ""
}

// A licensed user.
type LicensedUser struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Username.
 // Format: `name@domain.com`.
 Username string `protobuf:"bytes,1,opt,name=username,proto3" json:"username,omitempty"`
 //
 Output only. Timestamp when the license was assigned.
 AssignTime *timestamppb.Timestamp `protobuf:"bytes,2,opt,name=assign_time,json=assignTime,proto3"
json:"assign_time,omitempty"`
 // Output only. Timestamp when the license was recently used. This may not be
 // the most recent usage time, and will be updated regularly (within 24
```

```
 // hours).
 RecentUsageTime *timestamppb.Timestamp
`protobuf:"bytes,3,opt,name=recent_usage_time,json=recentUsageTime,proto3"
json:"recent_usage_time,omitempty"`
}

func (x *LicensedUser) Reset() {
 *x = LicensedUser{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *LicensedUser) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*LicensedUser) ProtoMessage() {}

func (x *LicensedUser) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
 if
 x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use LicensedUser.ProtoReflect.Descriptor instead.
func (*LicensedUser) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{9}
}

func (x *LicensedUser) GetUsername() string {
 if x != nil {
  return x.Username
 }
 return ""
}
```

```
func (x *LicensedUser) GetAssignTime() *timestamppb.Timestamp {
 if x != nil {
  return x.AssignTime
 }
 return nil
}

func (x *LicensedUser) GetRecentUsageTime() *timestamppb.Timestamp {
 if x != nil {
  return x.RecentUsageTime
 }
 return nil
}

// Response message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersResponse
 struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // The list of licensed users.
 LicensedUsers []*LicensedUser `protobuf:"bytes,1,rep,name=licensed_users,json=licensedUsers,proto3"
json:"licensed_users,omitempty"`
 // A token that can be sent as `page_token` to retrieve the next page.
 // If this field is omitted, there are no subsequent pages.
 NextPageToken string `protobuf:"bytes,2,opt,name=next_page_token,json=nextPageToken,proto3"
json:"next_page_token,omitempty"`
}

func (x *EnumerateLicensedUsersResponse) Reset() {
 *x = EnumerateLicensedUsersResponse{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersResponse) ProtoMessage() {}

func
```

```
 (x *EnumerateLicensedUsersResponse) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersResponse.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersResponse) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{10}
}

func (x *EnumerateLicensedUsersResponse) GetLicensedUsers() []*LicensedUser {
 if x != nil {
  return x.LicensedUsers
 }
 return nil
}

func (x *EnumerateLicensedUsersResponse) GetNextPageToken() string {
 if x != nil {
  return x.NextPageToken
 }
 return ""
}

// Allow manual assignments triggered by administrative operations only.
type AssignmentProtocol_ManualAssignmentType
 struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
}

func (x *AssignmentProtocol_ManualAssignmentType) Reset() {
 *x = AssignmentProtocol_ManualAssignmentType{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
```

```
}

func (x *AssignmentProtocol_ManualAssignmentType) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_ManualAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_ManualAssignmentType) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated:
 Use AssignmentProtocol_ManualAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_ManualAssignmentType) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{0, 0}
}

// Configuration for automatic assignments handled by data plane operations.
type AssignmentProtocol_AutoAssignmentType struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Optional. The time to live for an inactive license. After this time has
 // passed, the license will be automatically unassigned from the user. Must
 // be at least 7 days, if set. If unset, the license will never expire.
 InactiveLicenseTtl *durationpb.Duration
`protobuf:"bytes,1,opt,name=inactive_license_ttl,json=inactiveLicenseTtl,proto3"
json:"inactive_license_ttl,omitempty"`
}

func (x *AssignmentProtocol_AutoAssignmentType) Reset() {
 *x = AssignmentProtocol_AutoAssignmentType{}
 mi
 := &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
```

```
 ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_AutoAssignmentType) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_AutoAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_AutoAssignmentType) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol_AutoAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_AutoAssignmentType) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
 []int{0, 1}
}

func (x *AssignmentProtocol_AutoAssignmentType) GetInactiveLicenseTtl() *durationpb.Duration {
 if x != nil {
  return x.InactiveLicenseTtl
 }
 return nil
}

var File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto
protoreflect.FileDescriptor

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc =
[]byte{
 0x0a, 0x4e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2f, 0x63,
 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x76, 0x31, 0x2f,
 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x6d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65,
 0x6e, 0x74, 0x5f, 0x73, 0x65, 0x72, 0x76, 0x69, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f,
 0x12, 0x2d, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63,
 0x6f,
```

0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x1a,
0x1c, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x61, 0x6e, 0x6e, 0x6f,
0x74, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x73, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x17, 0x67,
0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x63, 0x6c, 0x69, 0x65, 0x6e, 0x74,
0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61,
0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f,
0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f,
0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f,
0x74, 0x6f, 0x1a, 0x1e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
0x62, 0x75, 0x66, 0x2f, 0x64,
0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x2e, 0x70, 0x72, 0x6f,
0x74, 0x6f, 0x1a, 0x20, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
0x62, 0x75, 0x66, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x6d, 0x61, 0x73, 0x6b, 0x2e, 0x70,
0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f,
0x74, 0x6f, 0x62, 0x75, 0x66, 0x2f, 0x74, 0x69, 0x6d, 0x65, 0x73, 0x74, 0x61, 0x6d, 0x70, 0x2e,
0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0xc3, 0x03, 0x0a, 0x12, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e,
0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x8e, 0x01, 0x0a,
0x16, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65,
0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x56, 0x2e,
0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d,
0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73,
0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70,
0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73,
0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c,
0x2e, 0x4d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e,
0x74, 0x54, 0x79, 0x70, 0x65, 0x48, 0x00, 0x52, 0x14, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41,
0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x88, 0x01,
0x0a, 0x14, 0x61, 0x75, 0x74, 0x6f, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e,
0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x03, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x54, 0x2e, 0x67,
0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d,
0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72,
0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73,
0x73,
0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x2e,
0x41, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79,
0x70, 0x65, 0x48, 0x00, 0x52, 0x12, 0x61, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e,
0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x1a, 0x16, 0x0a, 0x14, 0x4d, 0x61, 0x6e, 0x75,
0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65,
0x1a, 0x66, 0x0a, 0x12, 0x41, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65,
0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x50, 0x0a, 0x14, 0x69, 0x6e, 0x61, 0x63, 0x74, 0x69,
0x76, 0x65, 0x5f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x74, 0x74, 0x6c, 0x18, 0x01,
0x20, 0x01, 0x28, 0x0b, 0x32, 0x19, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x70, 0x72,
0x6f, 0x74, 0x6f, 0x62, 0x75, 0x66, 0x2e, 0x44, 0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x42,
0x03, 0xe0, 0x41, 0x01,
0x52, 0x12, 0x69, 0x6e, 0x61, 0x63, 0x74, 0x69, 0x76, 0x65, 0x4c, 0x69,
0x63, 0x65, 0x6e, 0x73, 0x65, 0x54, 0x74, 0x6c, 0x42, 0x11, 0x0a, 0x0f, 0x61, 0x73, 0x73, 0x69,
0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x22, 0xbe, 0x03, 0x0a, 0x0b,

0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x12, 0x17, 0x0a, 0x04, 0x6e,
0x61, 0x6d, 0x65, 0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04,
0x6e, 0x61, 0x6d, 0x65, 0x12, 0x86, 0x01, 0x0a, 0x1b, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65,
0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x5f, 0x70, 0x72, 0x6f, 0x74,
0x6f, 0x63, 0x6f, 0x6c, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x41, 0x2e, 0x67, 0x6f, 0x6f,
0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72,
0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63,
0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76,
0x31, 0x2e, 0x41, 0x73, 0x73, 0x69, 0x67,
0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x42, 0x03, 0xe0,
0x41, 0x02, 0x52, 0x19, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x41, 0x73, 0x73, 0x69, 0x67,
0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x3b, 0x0a,
0x17, 0x61, 0x76, 0x61, 0x69, 0x6c, 0x61, 0x62, 0x6c, 0x65, 0x5f, 0x6c, 0x69, 0x63, 0x65, 0x6e,
0x73, 0x65, 0x5f, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x18, 0x03, 0x20, 0x01, 0x28, 0x05, 0x42, 0x03,
0xe0, 0x41, 0x03, 0x52, 0x15, 0x61, 0x76, 0x61, 0x69, 0x6c, 0x61, 0x62, 0x6c, 0x65, 0x4c, 0x69,
0x63, 0x65, 0x6e, 0x73, 0x65, 0x43, 0x6f, 0x75, 0x6e, 0x74, 0x12, 0x33, 0x0a, 0x13, 0x74, 0x6f,
0x74, 0x61, 0x6c, 0x5f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x63, 0x6f, 0x75, 0x6e,
0x74, 0x18, 0x04, 0x20, 0x01, 0x28, 0x05, 0x42, 0x03, 0xe0, 0x41, 0x03, 0x52, 0x11, 0x74, 0x6f,
0x74, 0x61, 0x6c, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x43, 0x6f, 0x75, 0x6e,
0x74, 0x3a,
0x9a, 0x01, 0xea, 0x41, 0x96, 0x01, 0x0a, 0x3b, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x63, 0x6f, 0x6d,
0x6d, 0x65, 0x72, 0x63, 0x65, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x70, 0x72, 0x6f,
0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61,
0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50,
0x6f, 0x6f, 0x6c, 0x12, 0x3c, 0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67, 0x41, 0x63, 0x63, 0x6f,
0x75, 0x6e, 0x74, 0x73, 0x2f, 0x7b, 0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67, 0x5f, 0x61, 0x63,
0x63, 0x6f, 0x75, 0x6e, 0x74, 0x7d, 0x2f, 0x6f, 0x72, 0x64, 0x65, 0x72, 0x73, 0x2f, 0x7b, 0x6f,
0x72, 0x64, 0x65, 0x72, 0x7d, 0x2f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f,
0x6c, 0x2a, 0x0c, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x73, 0x32,
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0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d,
0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72,
0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x55, 0x6e, 0x61,
0x73, 0x73, 0x69, 0x67, 0x6e, 0x52, 0x65, 0x73, 0x70,
0x6f, 0x6e, 0x73, 0x65, 0x22, 0x5a, 0xda,
0x41, 0x10, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x2c, 0x75, 0x73, 0x65, 0x72, 0x6e, 0x61, 0x6d,
0x65, 0x73, 0x82, 0xd3, 0xe4, 0x93, 0x02, 0x41, 0x3a, 0x01, 0x2a, 0x22, 0x3c, 0x2f, 0x76, 0x31,
0x2f, 0x7b, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x3d, 0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67,
0x41, 0x63, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x73, 0x2f, 0x2a, 0x2f, 0x6f, 0x72, 0x64, 0x65, 0x72,
0x73, 0x2f, 0x2a, 0x2f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x7d,
0x3a, 0x75, 0x6e, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x12, 0x92, 0x02, 0x0a, 0x16, 0x45, 0x6e,
0x75, 0x6d, 0x65, 0x72, 0x61, 0x74, 0x65, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x64, 0x55,
0x73, 0x65, 0x72, 0x73, 0x12, 0x4c, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c,
0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e,
0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d,
0x65, 0x6e,
0x74, 0x2e, 0x76, 0x31, 0x2e, 0x45, 0x6e, 0x75, 0x6d, 0x65, 0x72, 0x61, 0x74, 0x65, 0x4c, 0x69,
0x63, 0x65, 0x6e, 0x73, 0x65, 0x64, 0x55, 0x73, 0x65, 0x72, 0x73, 0x52, 0x65, 0x71, 0x75, 0x65,
0x73, 0x74, 0x1a, 0x4d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75,
0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75,
0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e,
0x76, 0x31, 0x2e, 0x45, 0x6e, 0x75, 0x6d, 0x65, 0x72, 0x61, 0x74, 0x65, 0x4c, 0x69, 0x63, 0x65,
0x6e, 0x73, 0x65, 0x64, 0x55, 0x73, 0x65, 0x72, 0x73, 0x52, 0x65, 0x73, 0x70, 0x6f, 0x6e, 0x73,
0x65, 0x22, 0x5b, 0xda, 0x41, 0x06, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x82, 0xd3, 0xe4, 0x93,
0x02, 0x4c, 0x12, 0x4a, 0x2f, 0x76, 0x31, 0x2f, 0x7b, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x3d,
0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67, 0x41, 0x63, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x73, 0x2f,
0x2a, 0x2f, 0x6f,
0x72, 0x64, 0x65, 0x72, 0x73, 0x2f, 0x2a, 0x2f, 0x6c, 0x69, 0x63, 0x65, 0x6e,
0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x7d, 0x3a, 0x65, 0x6e, 0x75, 0x6d, 0x65, 0x72, 0x61, 0x74,
0x65, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x64, 0x55, 0x73, 0x65, 0x72, 0x73, 0x1a, 0x63,
0xca, 0x41, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65,
0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d,
0x65, 0x6e, 0x74, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63,
0x6f, 0x6d, 0xd2, 0x41, 0x2e, 0x68, 0x74, 0x74, 0x70, 0x73, 0x3a, 0x2f, 0x2f, 0x77, 0x77, 0x77,
0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d, 0x2f,
0x61, 0x75, 0x74, 0x68, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2d, 0x70, 0x6c, 0x61, 0x74, 0x66,
0x6f, 0x72, 0x6d, 0x42, 0xbe, 0x02, 0x0a, 0x31, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67,
0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64,
0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63,
0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75,
0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x42, 0x1d, 0x4c, 0x69, 0x63, 0x65, 0x6e,

```
 0x73, 0x65, 0x4d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x53, 0x65, 0x72, 0x76,
 0x69, 0x63, 0x65, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x53, 0x63, 0x6c, 0x6f, 0x75,
 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x67, 0x6f, 0x2f,
 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65,
 0x72, 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x61, 0x70,
 0x69, 0x76, 0x31, 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x70,
 0x62, 0x3b, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x70, 0x62, 0xaa,
 0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x43, 0x6c, 0x6f, 0x75,
 0x64, 0x2e, 0x43,
 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
 0x2e, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x56, 0x31, 0xca,
 0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x5c, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x5c, 0x43,
 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x5c, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
 0x5c, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x5c, 0x56, 0x31, 0xea,
 0x02, 0x32, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x3a, 0x3a, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x3a,
 0x3a, 0x43, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x3a, 0x3a, 0x43, 0x6f, 0x6e, 0x73, 0x75,
 0x6d, 0x65, 0x72, 0x3a, 0x3a, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74,
 0x3a, 0x3a, 0x56, 0x31, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce
sync.Once
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
 = file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc
)

func
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP()
[]byte {
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce.Do(f
unc() {
  file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_cloud_commerce_consumer_procurement_v1_license_management_servi
ce_proto_rawDescData)
 })
 return file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
}

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes =
make([]protoimpl.MessageInfo, 13)
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes =
[]any{
 (*AssignmentProtocol)(nil),
                    // 0: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
 (*LicensePool)(nil),                    // 1: google.cloud.commerce.consumer.procurement.v1.LicensePool
 (*GetLicensePoolRequest)(nil),                // 2:
google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
```

```
 (*UpdateLicensePoolRequest)(nil),              // 3:
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
 (*AssignRequest)(nil),                         // 4: google.cloud.commerce.consumer.procurement.v1.AssignRequest
 (*AssignResponse)(nil),                        // 5: google.cloud.commerce.consumer.procurement.v1.AssignResponse
 (*UnassignRequest)(nil),                       // 6: google.cloud.commerce.consumer.procurement.v1.UnassignRequest
 (*UnassignResponse)(nil),                      // 7: google.cloud.commerce.consumer.procurement.v1.UnassignResponse
 (*EnumerateLicensedUsersRequest)(nil),         // 8:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
 (*LicensedUser)(nil),
                                // 9: google.cloud.commerce.consumer.procurement.v1.LicensedUser
 (*EnumerateLicensedUsersResponse)(nil),        // 10:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
 (*AssignmentProtocol_ManualAssignmentType)(nil), // 11:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
 (*AssignmentProtocol_AutoAssignmentType)(nil),   // 12:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
 (*fieldmaskpb.FieldMask)(nil),                 // 13: google.protobuf.FieldMask
 (*timestamppb.Timestamp)(nil),                 // 14: google.protobuf.Timestamp
 (*durationpb.Duration)(nil),                   // 15: google.protobuf.Duration
}
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs =
[]int32{
 11, // 0:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.manual_assignment_type:type_name
 -> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
 12, // 1: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.auto_assignment_type:type_name -
> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
 0,  // 2: google.cloud.commerce.consumer.procurement.v1.LicensePool.license_assignment_protocol:type_name ->
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
 1,  // 3: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.license_pool:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 13, // 4: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.update_mask:type_name ->
google.protobuf.FieldMask
 14, // 5: google.cloud.commerce.consumer.procurement.v1.LicensedUser.assign_time:type_name ->
google.protobuf.Timestamp
 14, // 6: google.cloud.commerce.consumer.procurement.v1.LicensedUser.recent_usage_time:type_name
 -> google.protobuf.Timestamp
 9,  // 7:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse.licensed_users:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensedUser
 15, // 8:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType.inactive_license_ttl:t
ype_name -> google.protobuf.Duration
 2,  // 9: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:input_type -
> google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
 3,  // 10:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:input_type ->
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
```

```
 4,  // 11: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:input_type ->
google.cloud.commerce.consumer.procurement.v1.AssignRequest
 6,  // 12: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:input_type
 -> google.cloud.commerce.consumer.procurement.v1.UnassignRequest
 8,  // 13:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:input_typ
e -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
 1,  // 14:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 1,  // 15:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 5,  // 16: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:output_type ->
google.cloud.commerce.consumer.procurement.v1.AssignResponse
 7,  // 17: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:output_type ->
google.cloud.commerce.consumer.procurement.v1.UnassignResponse
 10, // 18:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:output_ty
pe
 -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
 14, // [14:19] is the sub-list for method output_type
 9,  // [9:14] is the sub-list for method input_type
 9,  // [9:9] is the sub-list for extension type_name
 9,  // [9:9] is the sub-list for extension extendee
 0,  // [0:9] is the sub-list for field type_name
}

func init() {
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init()
}
func file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init() {
 if File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto != nil {
  return
 }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].Oneof
Wrappers = []any{
  (*AssignmentProtocol_ManualAssignmentType_)(nil),
  (*AssignmentProtocol_AutoAssignmentType_)(nil),
 }
 type x struct{}
 out := protoimpl.TypeBuilder{
  File:
 protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc,
   NumEnums:      0,
```

```
  NumMessages:   13,
  NumExtensions: 0,
  NumServices:   1,
 },
 GoTypes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes,
 DependencyIndexes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs,
 MessageInfos:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes,
 }.Build()
 File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto = out.File
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc = nil
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes = nil
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs
 = nil
}

// Reference imports to suppress errors if they are not otherwise used.
var _ context.Context
var _ grpc.ClientConnInterface

// This is a compile-time assertion to ensure that this generated file
// is compatible with the grpc package it is being compiled against.
const _ = grpc.SupportPackageIsVersion6

// LicenseManagementServiceClient is the client API for LicenseManagementService service.
//
// For semantics around ctx use and closing/ending streaming RPCs, please refer to
https://godoc.org/google.golang.org/grpc#ClientConn.NewStream.
type LicenseManagementServiceClient interface {
 // Gets the license pool.
 GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
 // Updates the license pool if one exists for this Order.
 UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool,
error)
 // Assigns a license to a user.
 Assign(ctx
 context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error)
 // Unassigns a license from a user.
 Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error)
 // Enumerates all users assigned a license.
 EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption)
(*EnumerateLicensedUsersResponse, error)
}

type licenseManagementServiceClient struct {
 cc grpc.ClientConnInterface
```

```
}

func NewLicenseManagementServiceClient(cc grpc.ClientConnInterface) LicenseManagementServiceClient {
 return &licenseManagementServiceClient{cc}
}

func (c *licenseManagementServiceClient) GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts
...grpc.CallOption) (*LicensePool, error) {
 out := new(LicensePool)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool", in, out, opts...)
 if err != nil {
  return nil, err
 }
 return
 out, nil
}

func (c *licenseManagementServiceClient) UpdateLicensePool(ctx context.Context, in
*UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
 out := new(LicensePool)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool", in, out,
opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

func (c *licenseManagementServiceClient) Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption)
(*AssignResponse, error) {
 out := new(AssignResponse)
 err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign", in,
out, opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

func (c *licenseManagementServiceClient) Unassign(ctx context.Context, in *UnassignRequest, opts
...grpc.CallOption) (*UnassignResponse, error) {
 out := new(UnassignResponse)
 err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
 in, out, opts...)
 if err != nil {
  return nil, err
```

```
 }
 return out, nil
}

func (c *licenseManagementServiceClient) EnumerateLicensedUsers(ctx context.Context, in
*EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error) {
 out := new(EnumerateLicensedUsersResponse)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers", in, out,
opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

// LicenseManagementServiceServer is the server API for LicenseManagementService service.
type LicenseManagementServiceServer interface {
 // Gets the license pool.
 GetLicensePool(context.Context, *GetLicensePoolRequest) (*LicensePool, error)
 // Updates the license pool if one exists for this Order.
 UpdateLicensePool(context.Context, *UpdateLicensePoolRequest) (*LicensePool, error)
 // Assigns a license to a user.
 Assign(context.Context, *AssignRequest)
 (*AssignResponse, error)
 // Unassigns a license from a user.
 Unassign(context.Context, *UnassignRequest) (*UnassignResponse, error)
 // Enumerates all users assigned a license.
 EnumerateLicensedUsers(context.Context, *EnumerateLicensedUsersRequest)
(*EnumerateLicensedUsersResponse, error)
}

// UnimplementedLicenseManagementServiceServer can be embedded to have forward compatible
implementations.
type UnimplementedLicenseManagementServiceServer struct {
}

func (*UnimplementedLicenseManagementServiceServer) GetLicensePool(context.Context,
*GetLicensePoolRequest) (*LicensePool, error) {
 return nil, status.Errorf(codes.Unimplemented, "method GetLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) UpdateLicensePool(context.Context,
*UpdateLicensePoolRequest) (*LicensePool, error) {
 return nil, status.Errorf(codes.Unimplemented, "method UpdateLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Assign(context.Context, *AssignRequest)
 (*AssignResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method Assign not implemented")
```

```
}
func (*UnimplementedLicenseManagementServiceServer) Unassign(context.Context, *UnassignRequest)
(*UnassignResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method Unassign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) EnumerateLicensedUsers(context.Context,
*EnumerateLicensedUsersRequest) (*EnumerateLicensedUsersResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method EnumerateLicensedUsers not implemented")
}

func RegisterLicenseManagementServiceServer(s *grpc.Server, srv LicenseManagementServiceServer) {
 s.RegisterService(&_LicenseManagementService_serviceDesc, srv)
}

func _LicenseManagementService_GetLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(GetLicensePoolRequest)
 if err := dec(in);
 err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, req.(*GetLicensePoolRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_UpdateLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(UpdateLicensePoolRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool",
 }
 handler
```

```
 := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, req.(*UpdateLicensePoolRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Assign_Handler(srv interface{}, ctx context.Context, dec func(interface{})
error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(AssignRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).Assign(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).Assign(ctx, req.(*AssignRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Unassign_Handler(srv
 interface{}, ctx context.Context, dec func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{},
error) {
 in := new(UnassignRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).Unassign(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).Unassign(ctx, req.(*UnassignRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_EnumerateLicensedUsers_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(EnumerateLicensedUsersRequest)
```

```
 if err := dec(in); err != nil {
  return nil, err
 }
 if
 interceptor == nil {
  return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod:
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx,
req.(*EnumerateLicensedUsersRequest))
 }
 return interceptor(ctx, in, info, handler)
}

var _LicenseManagementService_serviceDesc = grpc.ServiceDesc{
 ServiceName: "google.cloud.commerce.consumer.procurement.v1.LicenseManagementService",
 HandlerType: (*LicenseManagementServiceServer)(nil),
 Methods: []grpc.MethodDesc{
  {
   MethodName: "GetLicensePool",
   Handler:    _LicenseManagementService_GetLicensePool_Handler,
  },
  {
   MethodName: "UpdateLicensePool",
   Handler:    _LicenseManagementService_UpdateLicensePool_Handler,
  },
  {
   MethodName: "Assign",
   Handler:
    _LicenseManagementService_Assign_Handler,
  },
  {
   MethodName: "Unassign",
   Handler:    _LicenseManagementService_Unassign_Handler,
  },
  {
   MethodName: "EnumerateLicensedUsers",
   Handler:    _LicenseManagementService_EnumerateLicensedUsers_Handler,
  },
 },
 Streams:  []grpc.StreamDesc{},
 Metadata: "google/cloud/commerce/consumer/procurement/v1/license_management_service.proto",
}
```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)
```

```
const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
```

```
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
```

```
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
```

```
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
 {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
```

```
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var
 File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
```

0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f,
0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69,
0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
0x01, 0x01, 0x12,
0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54,
0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
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0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d,
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0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
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0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f,

```
 0x72, 0x6f, 0x6c, 0x65, 0x42,
 0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
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 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72,
 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = []any{
 (Permission_GranteeType)(0),
 // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}
```

```
func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func file_google_ai_generativelanguage_v1beta_permission_proto_init()
 {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:          file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:         file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
```

1.4359 fgprof 0.9.5

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1.4360 google.golang.org/genproto/googleapis/rpc 0.0.0-20241209162323-e6fa225c2576

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xml-commons/java/external/README.dom.txt $Id: README.dom.txt 477038 2006-11-20 04:40:36Z mrglavas $

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The actual DOM Java Language Binding classes in xml-commons came from:
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The specification
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http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/
http://www.w3.org/TR/2004/REC-DOM-Level-3-LS-20040407/
http://www.w3.org/TR/2004/NOTE-DOM-Level-3-XPath-20040226/

The specification of DOM Level 2's various parts is at:
http://www.w3.org/TR/2000/REC-DOM-Level-2-Events-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Style-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Traversal-Range-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Views-20001113/

The specification of DOM Level 1's various parts is at:
http://www.w3.org/TR/1998/REC-DOM-Level-1-19981001/level-one-html.html

Links to all available W3C DOM Java Bindings can be found at:
http://www.w3.org/DOM/DOMTR

The actual classes of The Simple API for CSS (SAC) came from:
http://www.w3.org/Style/CSS/SAC/
http://www.w3.org/2002/06/sacjava-1.3.zip

The actual DOM Java Language Binding classes for SMIL came from:
http://dev.w3.org/cvsweb/java/classes/org/w3c/dom/smil/
(both ElementTimeControl.java and TimeEvent.java were taken at revision 1.1)

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xml-commons/java/external/README.sax.txt $Id: README.sax.txt 225954 2002-01-31 23:26:48Z curcuru $

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Joseph Reagle <site-policy@w3.org>

Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $

1.4363 cffi 1.13.2

1.4363.1 Available under license :

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1.4364 python3-asn1crypto 1.2.0

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1.4365 gst-plugins-base 1.20.1-1ubuntu0.4

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1.4367 luajit 2.1.1725248936

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1.4368 github.com/cert-manager/cmctl/v2 2.0.0

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1.4369 kubernetes/kubectl 0.29.2

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1.4375 kubernetes-component-base 0.32.0

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1.4377 distlib 0.3.4

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member
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All Python releases are Open Source (see http://www.opensource.org for
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Release Derived Year Owner GPL-

	from			compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2		2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
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2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
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==========

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distlib has started off using some of the code from distutil2.

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and welcome into the Fellowship of the Packaging!

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1.4386 otel-trace 1.33.0

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1.4387 go-compute-metadata 0.6.0

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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()
```

```
 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
```

```
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_Insert()
{
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.InsertLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
}
op, err := c.Insert(ctx, req)
if err != nil {
 // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
 // TODO: Handle error.
}
}
```

```
func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*computepb.LicensesListResponse)
 }
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
```

```
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleLicensesClient_List_all() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications
 to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 for resp, err := range c.List(ctx, req).All() {
  if err != nil {
   // TODO: Handle error and break/return/continue. Iteration will stop after any error.
  }
  // TODO: Use resp.
  _ = resp
 }
}
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```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package procurement_test

import (
 "context"

 procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
 procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
)

func ExampleLicenseManagementClient_EnumerateLicensedUsers_all() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.EnumerateLicensedUsersRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
dUsersRequest.
 }
 for resp, err := range c.EnumerateLicensedUsers(ctx, req).All() {
  if err != nil {
   // TODO: Handle error and break/return/continue. Iteration will stop after any error.
  }
  // TODO: Use resp.
```

```
  _ = resp
 }
}

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// versions:
//  protoc-gen-go v1.35.2
//  protoc        v4.25.3
// source: google/cloud/commerce/consumer/procurement/v1/license_management_service.proto

package procurementpb

import (
 context "context"
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 grpc "google.golang.org/grpc"
 codes "google.golang.org/grpc/codes"
 status
```

```
 "google.golang.org/grpc/status"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
 durationpb "google.golang.org/protobuf/types/known/durationpb"
 fieldmaskpb "google.golang.org/protobuf/types/known/fieldmaskpb"
 timestamppb "google.golang.org/protobuf/types/known/timestamppb"
)

const (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Assignment protocol for a license pool.
type AssignmentProtocol struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // The type of assignment protocol.
 //
 // Types that are assignable to AssignmentType:
 //
 // *AssignmentProtocol_ManualAssignmentType_
 // *AssignmentProtocol_AutoAssignmentType_
 AssignmentType
 isAssignmentProtocol_AssignmentType `protobuf_oneof:"assignment_type"`
}

func (x *AssignmentProtocol) Reset() {
 *x = AssignmentProtocol{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol) ProtoMessage() {}

func (x *AssignmentProtocol) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
```

```
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
 []int{0}
}

func (m *AssignmentProtocol) GetAssignmentType() isAssignmentProtocol_AssignmentType {
 if m != nil {
  return m.AssignmentType
 }
 return nil
}

func (x *AssignmentProtocol) GetManualAssignmentType() *AssignmentProtocol_ManualAssignmentType {
 if x, ok := x.GetAssignmentType().(*AssignmentProtocol_ManualAssignmentType_); ok {
  return x.ManualAssignmentType
 }
 return nil
}

func (x *AssignmentProtocol) GetAutoAssignmentType() *AssignmentProtocol_AutoAssignmentType {
 if x, ok := x.GetAssignmentType().(*AssignmentProtocol_AutoAssignmentType_); ok {
  return x.AutoAssignmentType
 }
 return nil
}

type isAssignmentProtocol_AssignmentType interface {
 isAssignmentProtocol_AssignmentType()
}

type AssignmentProtocol_ManualAssignmentType_ struct {
 // Allow manual assignments triggered by administrative operations only.
 ManualAssignmentType *AssignmentProtocol_ManualAssignmentType
`protobuf:"bytes,2,opt,name=manual_assignment_type,json=manualAssignmentType,proto3,oneof"`
}
```

```
type
 AssignmentProtocol_AutoAssignmentType_ struct {
 // Allow automatic assignments triggered by data plane operations.
 AutoAssignmentType *AssignmentProtocol_AutoAssignmentType
`protobuf:"bytes,3,opt,name=auto_assignment_type,json=autoAssignmentType,proto3,oneof"`
}

func (*AssignmentProtocol_ManualAssignmentType_) isAssignmentProtocol_AssignmentType() {}

func (*AssignmentProtocol_AutoAssignmentType_) isAssignmentProtocol_AssignmentType() {}

// A license pool represents a pool of licenses that can be assigned to users.
type LicensePool struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Identifier. Format:
 // `billingAccounts/{billing_account}/orders/{order}/licensePool`
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Required. Assignment protocol for the license pool.
 LicenseAssignmentProtocol *AssignmentProtocol
`protobuf:"bytes,2,opt,name=license_assignment_protocol,json=licenseAssignmentProtocol,proto3"
 json:"license_assignment_protocol,omitempty"`
 // Output only. Licenses count that are available to be assigned.
 AvailableLicenseCount int32
`protobuf:"varint,3,opt,name=available_license_count,json=availableLicenseCount,proto3"
json:"available_license_count,omitempty"`
 // Output only. Total number of licenses in the pool.
 TotalLicenseCount int32 `protobuf:"varint,4,opt,name=total_license_count,json=totalLicenseCount,proto3"
json:"total_license_count,omitempty"`
}

func (x *LicensePool) Reset() {
 *x = LicensePool{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *LicensePool) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*LicensePool) ProtoMessage() {}

func (x *LicensePool) ProtoReflect() protoreflect.Message {
```

```
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
 if
 x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use LicensePool.ProtoReflect.Descriptor instead.
func (*LicensePool) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{1}
}

func (x *LicensePool) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *LicensePool) GetLicenseAssignmentProtocol() *AssignmentProtocol {
 if x != nil {
  return x.LicenseAssignmentProtocol
 }
 return nil
}

func (x *LicensePool) GetAvailableLicenseCount() int32 {
 if x != nil {
  return x.AvailableLicenseCount
 }
 return 0
}

func (x *LicensePool) GetTotalLicenseCount() int32 {
 if x != nil {
  return x.TotalLicenseCount
 }
 return 0
}
```

```
// Request message for getting a
 license pool.
type GetLicensePoolRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. The name of the license pool to get.
 // Format: `billingAccounts/{billing_account}/orders/{order}/licensePool`
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
}

func (x *GetLicensePoolRequest) Reset() {
 *x = GetLicensePoolRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *GetLicensePoolRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*GetLicensePoolRequest) ProtoMessage() {}

func (x *GetLicensePoolRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if
 ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use GetLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*GetLicensePoolRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{2}
}

func (x *GetLicensePoolRequest) GetName() string {
```

```
 if x != nil {
  return x.Name
 }
 return ""
}

// Request message for updating a license pool.
type UpdateLicensePoolRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. The license pool to update.
 //
 // The license pool's name field is used to identify the license pool to
 // update. Format:
 // `billingAccounts/{billing_account}/orders/{order}/licensePool`.
 LicensePool *LicensePool `protobuf:"bytes,1,opt,name=license_pool,json=licensePool,proto3"
json:"license_pool,omitempty"`
 //
 Required. The list of fields to update.
 UpdateMask *fieldmaskpb.FieldMask `protobuf:"bytes,2,opt,name=update_mask,json=updateMask,proto3"
json:"update_mask,omitempty"`
}

func (x *UpdateLicensePoolRequest) Reset() {
 *x = UpdateLicensePoolRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *UpdateLicensePoolRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*UpdateLicensePoolRequest) ProtoMessage() {}

func (x *UpdateLicensePoolRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
```

```
 }
 return mi.MessageOf(x)
}

// Deprecated: Use UpdateLicensePoolRequest.ProtoReflect.Descriptor
 instead.
func (*UpdateLicensePoolRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{3}
}

func (x *UpdateLicensePoolRequest) GetLicensePool() *LicensePool {
 if x != nil {
  return x.LicensePool
 }
 return nil
}

func (x *UpdateLicensePoolRequest) GetUpdateMask() *fieldmaskpb.FieldMask {
 if x != nil {
  return x.UpdateMask
 }
 return nil
}

// Request message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementServic
e.Assign].
type AssignRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. License pool name.
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Required. Username.
 // Format: `name@domain.com`.
 Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func
 (x *AssignRequest) Reset() {
 *x = AssignRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
```

```
 ms.StoreMessageInfo(mi)
}

func (x *AssignRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignRequest) ProtoMessage() {}

func (x *AssignRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignRequest.ProtoReflect.Descriptor instead.
func (*AssignRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{4}
}

func (x *AssignRequest) GetParent()
 string {
 if x != nil {
  return x.Parent
 }
 return ""
}

func (x *AssignRequest) GetUsernames() []string {
 if x != nil {
  return x.Usernames
 }
 return nil
}

// Response message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementServic
e.Assign].
```

```
type AssignResponse struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
}

func (x *AssignResponse) Reset() {
 *x = AssignResponse{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignResponse) ProtoMessage() {}

func (x *AssignResponse) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
 if x
 != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignResponse.ProtoReflect.Descriptor instead.
func (*AssignResponse) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{5}
}

// Request message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
```

```
 unknownFields protoimpl.UnknownFields

 // Required. License pool name.
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Required. Username.
 // Format: `name@domain.com`.
 Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func (x *UnassignRequest) Reset()
 {
 *x = UnassignRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *UnassignRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*UnassignRequest) ProtoMessage() {}

func (x *UnassignRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use UnassignRequest.ProtoReflect.Descriptor instead.
func (*UnassignRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{6}
}

func (x *UnassignRequest) GetParent() string {
 if x != nil {
  return
```

```
 x.Parent
 }
 return ""
}

func (x *UnassignRequest) GetUsernames() []string {
 if x != nil {
  return x.Usernames
 }
 return nil
}

// Response message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignResponse struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
}

func (x *UnassignResponse) Reset() {
 *x = UnassignResponse{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *UnassignResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*UnassignResponse) ProtoMessage() {}

func (x *UnassignResponse) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
 if x != nil {
  ms
 := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
```

```
}

// Deprecated: Use UnassignResponse.ProtoReflect.Descriptor instead.
func (*UnassignResponse) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{7}
}

// Request message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. License pool name.
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Optional. The maximum number of users to return. The service may return
 // fewer than this value.
 PageSize int32 `protobuf:"varint,2,opt,name=page_size,json=pageSize,proto3"
 json:"page_size,omitempty"`
 // Optional. A page token, received from a previous `EnumerateLicensedUsers`
 // call. Provide this to retrieve the subsequent page.
 PageToken string `protobuf:"bytes,3,opt,name=page_token,json=pageToken,proto3" json:"page_token,omitempty"`
}

func (x *EnumerateLicensedUsersRequest) Reset() {
 *x = EnumerateLicensedUsersRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersRequest) ProtoMessage() {}

func (x *EnumerateLicensedUsersRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
```

```
 if ms.LoadMessageInfo()
 == nil {
  ms.StoreMessageInfo(mi)
 }
 return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersRequest.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersRequest) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{8}
}

func (x *EnumerateLicensedUsersRequest) GetParent() string {
if x != nil {
 return x.Parent
}
return ""
}

func (x *EnumerateLicensedUsersRequest) GetPageSize() int32 {
if x != nil {
 return x.PageSize
}
return 0
}

func (x *EnumerateLicensedUsersRequest) GetPageToken() string {
if x != nil {
 return x.PageToken
}
return ""
}

// A licensed user.
type LicensedUser struct {
state         protoimpl.MessageState
sizeCache     protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// Username.
// Format: `name@domain.com`.
Username string `protobuf:"bytes,1,opt,name=username,proto3" json:"username,omitempty"`
//
```

```
 Output only. Timestamp when the license was assigned.
 AssignTime *timestamppb.Timestamp `protobuf:"bytes,2,opt,name=assign_time,json=assignTime,proto3"
json:"assign_time,omitempty"`
 // Output only. Timestamp when the license was recently used. This may not be
 // the most recent usage time, and will be updated regularly (within 24
 // hours).
 RecentUsageTime *timestamppb.Timestamp
`protobuf:"bytes,3,opt,name=recent_usage_time,json=recentUsageTime,proto3"
json:"recent_usage_time,omitempty"`
}

func (x *LicensedUser) Reset() {
 *x = LicensedUser{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *LicensedUser) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*LicensedUser) ProtoMessage() {}

func (x *LicensedUser) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
 if
 x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use LicensedUser.ProtoReflect.Descriptor instead.
func (*LicensedUser) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{9}
}

func (x *LicensedUser) GetUsername() string {
 if x != nil {
```

```
  return x.Username
 }
 return ""
}

func (x *LicensedUser) GetAssignTime() *timestamppb.Timestamp {
 if x != nil {
  return x.AssignTime
 }
 return nil
}

func (x *LicensedUser) GetRecentUsageTime() *timestamppb.Timestamp {
 if x != nil {
  return x.RecentUsageTime
 }
 return nil
}

// Response message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersResponse
 struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // The list of licensed users.
 LicensedUsers []*LicensedUser `protobuf:"bytes,1,rep,name=licensed_users,json=licensedUsers,proto3"
json:"licensed_users,omitempty"`
 // A token that can be sent as `page_token` to retrieve the next page.
 // If this field is omitted, there are no subsequent pages.
 NextPageToken string `protobuf:"bytes,2,opt,name=next_page_token,json=nextPageToken,proto3"
json:"next_page_token,omitempty"`
}

func (x *EnumerateLicensedUsersResponse) Reset() {
 *x = EnumerateLicensedUsersResponse{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
```

```
}

func (*EnumerateLicensedUsersResponse) ProtoMessage() {}

func
 (x *EnumerateLicensedUsersResponse) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersResponse.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersResponse) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{10}
}

func (x *EnumerateLicensedUsersResponse) GetLicensedUsers() []*LicensedUser {
 if x != nil {
  return x.LicensedUsers
 }
 return nil
}

func (x *EnumerateLicensedUsersResponse) GetNextPageToken() string {
 if x != nil {
  return x.NextPageToken
 }
 return ""
}

// Allow manual assignments triggered by administrative operations only.
type AssignmentProtocol_ManualAssignmentType
 struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
}

func (x *AssignmentProtocol_ManualAssignmentType) Reset() {
```

```
 *x = AssignmentProtocol_ManualAssignmentType{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_ManualAssignmentType) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_ManualAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_ManualAssignmentType) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated:
 Use AssignmentProtocol_ManualAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_ManualAssignmentType) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{0, 0}
}

// Configuration for automatic assignments handled by data plane operations.
type AssignmentProtocol_AutoAssignmentType struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Optional. The time to live for an inactive license. After this time has
 // passed, the license will be automatically unassigned from the user. Must
 // be at least 7 days, if set. If unset, the license will never expire.
 InactiveLicenseTtl *durationpb.Duration
`protobuf:"bytes,1,opt,name=inactive_license_ttl,json=inactiveLicenseTtl,proto3"
json:"inactive_license_ttl,omitempty"`
}
```

```
func (x *AssignmentProtocol_AutoAssignmentType) Reset() {
 *x = AssignmentProtocol_AutoAssignmentType{}
 mi
 := &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_AutoAssignmentType) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_AutoAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_AutoAssignmentType) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol_AutoAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_AutoAssignmentType) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
 []int{0, 1}
}

func (x *AssignmentProtocol_AutoAssignmentType) GetInactiveLicenseTtl() *durationpb.Duration {
 if x != nil {
  return x.InactiveLicenseTtl
 }
 return nil
}

var File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto
protoreflect.FileDescriptor

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc =
[]byte{
 0x0a, 0x4e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2f, 0x63,
 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
```

0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x76, 0x31, 0x2f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x6d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x5f, 0x73, 0x65, 0x72, 0x76, 0x69, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x2d, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f,
0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x1a, 0x1c, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x61, 0x6e, 0x6e, 0x6f, 0x74, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x73, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x17, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x63, 0x6c, 0x69, 0x65, 0x6e, 0x74, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x62, 0x75, 0x66, 0x2f, 0x64,
0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x2e, 0x70, 0x72, 0x6f,
0x74, 0x6f, 0x1a, 0x20, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x62, 0x75, 0x66, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x6d, 0x61, 0x73, 0x6b, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x62, 0x75, 0x66, 0x2f, 0x74, 0x69, 0x6d, 0x65, 0x73, 0x74, 0x61, 0x6d, 0x70, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0xc3, 0x03, 0x0a, 0x12, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x8e, 0x01, 0x0a, 0x16, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x56, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73,
0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70,
0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x2e, 0x4d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x48, 0x00, 0x52, 0x14, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x88, 0x01, 0x0a, 0x14, 0x61, 0x75, 0x74, 0x6f, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x03, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x54, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73, 0x73,
0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x2e, 0x41, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x48, 0x00, 0x52, 0x12, 0x61, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x1a, 0x16, 0x0a, 0x14, 0x4d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x1a, 0x66, 0x0a, 0x12, 0x41, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x50, 0x0a, 0x14, 0x69, 0x6e, 0x61, 0x63, 0x74, 0x69, 0x76, 0x65, 0x5f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x74, 0x74, 0x6c, 0x18, 0x01, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x19, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x70, 0x72,

0x6f, 0x74, 0x6f, 0x62, 0x75, 0x66, 0x2e, 0x44, 0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x42,
0x03, 0xe0, 0x41, 0x01,
0x52, 0x12, 0x69, 0x6e, 0x61, 0x63, 0x74, 0x69, 0x76, 0x65, 0x4c, 0x69,
0x63, 0x65, 0x6e, 0x73, 0x65, 0x54, 0x74, 0x6c, 0x42, 0x11, 0x0a, 0x0f, 0x61, 0x73, 0x73, 0x69,
0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x22, 0xbe, 0x03, 0x0a, 0x0b,
0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x12, 0x17, 0x0a, 0x04, 0x6e,
0x61, 0x6d, 0x65, 0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04,
0x6e, 0x61, 0x6d, 0x65, 0x12, 0x86, 0x01, 0x0a, 0x1b, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65,
0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x5f, 0x70, 0x72, 0x6f, 0x74,
0x6f, 0x63, 0x6f, 0x6c, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x41, 0x2e, 0x67, 0x6f, 0x6f,
0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72,
0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63,
0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76,
0x31, 0x2e, 0x41, 0x73, 0x73, 0x69, 0x67,
0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x42, 0x03, 0xe0,
0x41, 0x02, 0x52, 0x19, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x41, 0x73, 0x73, 0x69, 0x67,
0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x3b, 0x0a,
0x17, 0x61, 0x76, 0x61, 0x69, 0x6c, 0x61, 0x62, 0x6c, 0x65, 0x5f, 0x6c, 0x69, 0x63, 0x65, 0x6e,
0x73, 0x65, 0x5f, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x18, 0x03, 0x20, 0x01, 0x28, 0x05, 0x42, 0x03,
0xe0, 0x41, 0x03, 0x52, 0x15, 0x61, 0x76, 0x61, 0x69, 0x6c, 0x61, 0x62, 0x6c, 0x65, 0x4c, 0x69,
0x63, 0x65, 0x6e, 0x73, 0x65, 0x43, 0x6f, 0x75, 0x6e, 0x74, 0x12, 0x33, 0x0a, 0x13, 0x74, 0x6f,
0x74, 0x61, 0x6c, 0x5f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x63, 0x6f, 0x75, 0x6e,
0x74, 0x18, 0x04, 0x20, 0x01, 0x28, 0x05, 0x42, 0x03, 0xe0, 0x41, 0x03, 0x52, 0x11, 0x74, 0x6f,
0x74, 0x61, 0x6c, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x43, 0x6f, 0x75, 0x6e,
0x74, 0x3a,
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0x2f, 0x2a, 0x2f, 0x6f,
0x72, 0x64, 0x65, 0x72, 0x73, 0x2f, 0x2a, 0x2f, 0x6c, 0x69, 0x63, 0x65,
0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x7d, 0x3a, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x12,
0xe7, 0x01, 0x0a, 0x08, 0x55, 0x6e, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x12, 0x3e, 0x2e, 0x67,
0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d,
0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72,
0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x55, 0x6e, 0x61,
0x73, 0x73, 0x69, 0x67, 0x6e, 0x52, 0x65, 0x71, 0x75, 0x65, 0x73, 0x74, 0x1a, 0x3f, 0x2e, 0x67,
0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d,
0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72,
0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x55, 0x6e, 0x61,
0x73, 0x73, 0x69, 0x67, 0x6e, 0x52, 0x65, 0x73, 0x70,
0x6f, 0x6e, 0x73, 0x65, 0x22, 0x5a, 0xda,
0x41, 0x10, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x2c, 0x75, 0x73, 0x65, 0x72, 0x6e, 0x61, 0x6d,
0x65, 0x73, 0x82, 0xd3, 0xe4, 0x93, 0x02, 0x41, 0x3a, 0x01, 0x2a, 0x22, 0x3c, 0x2f, 0x76, 0x31,
0x2f, 0x7b, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x3d, 0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67,
0x41, 0x63, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x73, 0x2f, 0x2a, 0x2f, 0x6f, 0x72, 0x64, 0x65, 0x72,
0x73, 0x2f, 0x2a, 0x2f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x7d,
0x3a, 0x75, 0x6e, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x12, 0x92, 0x02, 0x0a, 0x16, 0x45, 0x6e,
0x75, 0x6d, 0x65, 0x72, 0x61, 0x74, 0x65, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x64, 0x55,
0x73, 0x65, 0x72, 0x73, 0x12, 0x4c, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c,
0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e,
0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d,
0x65, 0x6e,
0x74, 0x2e, 0x76, 0x31, 0x2e, 0x45, 0x6e, 0x75, 0x6d, 0x65, 0x72, 0x61, 0x74, 0x65, 0x4c, 0x69,
0x63, 0x65, 0x6e, 0x73, 0x65, 0x64, 0x55, 0x73, 0x65, 0x72, 0x73, 0x52, 0x65, 0x71, 0x75, 0x65,
0x73, 0x74, 0x1a, 0x4d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75,
0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75,
0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e,
0x76, 0x31, 0x2e, 0x45, 0x6e, 0x75, 0x6d, 0x65, 0x72, 0x61, 0x74, 0x65, 0x4c, 0x69, 0x63, 0x65,
0x6e, 0x73, 0x65, 0x64, 0x55, 0x73, 0x65, 0x72, 0x73, 0x52, 0x65, 0x73, 0x70, 0x6f, 0x6e, 0x73,
0x65, 0x22, 0x5b, 0xda, 0x41, 0x06, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x82, 0xd3, 0xe4, 0x93,
0x02, 0x4c, 0x12, 0x4a, 0x2f, 0x76, 0x31, 0x2f, 0x7b, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x3d,
0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67, 0x41, 0x63, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x73, 0x2f,
0x2a, 0x2f, 0x6f,
0x72, 0x64, 0x65, 0x72, 0x73, 0x2f, 0x2a, 0x2f, 0x6c, 0x69, 0x63, 0x65, 0x6e,
0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x7d, 0x3a, 0x65, 0x6e, 0x75, 0x6d, 0x65, 0x72, 0x61, 0x74,
0x65, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x64, 0x55, 0x73, 0x65, 0x72, 0x73, 0x1a, 0x63,
0xca, 0x41, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65,
0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d,
0x65, 0x6e, 0x74, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63,
0x6f, 0x6d, 0xd2, 0x41, 0x2e, 0x68, 0x74, 0x74, 0x70, 0x73, 0x3a, 0x2f, 0x2f, 0x77, 0x77, 0x77,
0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d, 0x2f,

```
 0x61, 0x75, 0x74, 0x68, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2d, 0x70, 0x6c, 0x61, 0x74, 0x66,
 0x6f, 0x72, 0x6d, 0x42, 0xbe, 0x02, 0x0a, 0x31, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67,
 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64,
 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63,
 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75,
 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x42, 0x1d, 0x4c, 0x69, 0x63, 0x65, 0x6e,
 0x73, 0x65, 0x4d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x53, 0x65, 0x72, 0x76,
 0x69, 0x63, 0x65, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x53, 0x63, 0x6c, 0x6f, 0x75,
 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x67, 0x6f, 0x2f,
 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65,
 0x72, 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x61, 0x70,
 0x69, 0x76, 0x31, 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x70,
 0x62, 0x3b, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x70, 0x62, 0xaa,
 0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x43, 0x6c, 0x6f, 0x75,
 0x64, 0x2e, 0x43,
 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
 0x2e, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x56, 0x31, 0xca,
 0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x5c, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x5c, 0x43,
 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x5c, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
 0x5c, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x5c, 0x56, 0x31, 0xea,
 0x02, 0x32, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x3a, 0x3a, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x3a,
 0x3a, 0x43, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x3a, 0x3a, 0x43, 0x6f, 0x6e, 0x73, 0x75,
 0x6d, 0x65, 0x72, 0x3a, 0x3a, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74,
 0x3a, 0x3a, 0x56, 0x31, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce
sync.Once
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
 = file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc
)

func
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP()
[]byte {
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce.Do(f
unc() {
  file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_cloud_commerce_consumer_procurement_v1_license_management_servi
ce_proto_rawDescData)
 })
 return file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
}

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes =
make([]protoimpl.MessageInfo, 13)
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes =
```

```
[]any{
 (*AssignmentProtocol)(nil),
                    // 0: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
 (*LicensePool)(nil),                        // 1: google.cloud.commerce.consumer.procurement.v1.LicensePool
 (*GetLicensePoolRequest)(nil),                  // 2:
google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
 (*UpdateLicensePoolRequest)(nil),               // 3:
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
 (*AssignRequest)(nil),                      // 4: google.cloud.commerce.consumer.procurement.v1.AssignRequest
 (*AssignResponse)(nil),                      // 5: google.cloud.commerce.consumer.procurement.v1.AssignResponse
 (*UnassignRequest)(nil),                     // 6: google.cloud.commerce.consumer.procurement.v1.UnassignRequest
 (*UnassignResponse)(nil),                     // 7: google.cloud.commerce.consumer.procurement.v1.UnassignResponse
 (*EnumerateLicensedUsersRequest)(nil),          // 8:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
 (*LicensedUser)(nil),
                        // 9: google.cloud.commerce.consumer.procurement.v1.LicensedUser
 (*EnumerateLicensedUsersResponse)(nil),         // 10:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
 (*AssignmentProtocol_ManualAssignmentType)(nil), // 11:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
 (*AssignmentProtocol_AutoAssignmentType)(nil),   // 12:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
 (*fieldmaskpb.FieldMask)(nil),                  // 13: google.protobuf.FieldMask
 (*timestamppb.Timestamp)(nil),                   // 14: google.protobuf.Timestamp
 (*durationpb.Duration)(nil),                    // 15: google.protobuf.Duration
}
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs =
[]int32{
 11, // 0:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.manual_assignment_type:type_name
 -> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
 12, // 1: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.auto_assignment_type:type_name -
> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
 0,  // 2: google.cloud.commerce.consumer.procurement.v1.LicensePool.license_assignment_protocol:type_name ->
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
 1,  // 3: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.license_pool:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 13, // 4: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.update_mask:type_name ->
google.protobuf.FieldMask
 14, // 5: google.cloud.commerce.consumer.procurement.v1.LicensedUser.assign_time:type_name ->
google.protobuf.Timestamp
 14, // 6: google.cloud.commerce.consumer.procurement.v1.LicensedUser.recent_usage_time:type_name
 -> google.protobuf.Timestamp
 9,  // 7:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse.licensed_users:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensedUser
 15, // 8:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType.inactive_license_ttl:t
```

```
ype_name -> google.protobuf.Duration
 2,  // 9: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:input_type -
> google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
 3,  // 10:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:input_type ->
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
 4,  // 11: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:input_type ->
google.cloud.commerce.consumer.procurement.v1.AssignRequest
 6,  // 12: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:input_type
 -> google.cloud.commerce.consumer.procurement.v1.UnassignRequest
 8,  // 13:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:input_typ
e -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
 1,  // 14:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 1,  // 15:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 5,  // 16: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:output_type ->
google.cloud.commerce.consumer.procurement.v1.AssignResponse
 7,  // 17: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:output_type ->
google.cloud.commerce.consumer.procurement.v1.UnassignResponse
 10, // 18:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:output_ty
pe
 -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
 14, // [14:19] is the sub-list for method output_type
 9,  // [9:14] is the sub-list for method input_type
 9,  // [9:9] is the sub-list for extension type_name
 9,  // [9:9] is the sub-list for extension extendee
 0,  // [0:9] is the sub-list for field type_name
}

func init() {
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init()
}
func file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init() {
 if File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto != nil {
  return
 }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].Oneof
Wrappers = []any{
  (*AssignmentProtocol_ManualAssignmentType_)(nil),
  (*AssignmentProtocol_AutoAssignmentType_)(nil),
 }
 type x struct{}
 out := protoimpl.TypeBuilder{
```

```
  File:
 protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc,
   NumEnums:      0,
   NumMessages:   13,
   NumExtensions: 0,
   NumServices:   1,
  },
  GoTypes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes,
  DependencyIndexes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs,
  MessageInfos:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes,
 }.Build()
 File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto = out.File
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc = nil
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes = nil
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs
 = nil
}

// Reference imports to suppress errors if they are not otherwise used.
var _ context.Context
var _ grpc.ClientConnInterface

// This is a compile-time assertion to ensure that this generated file
// is compatible with the grpc package it is being compiled against.
const _ = grpc.SupportPackageIsVersion6

// LicenseManagementServiceClient is the client API for LicenseManagementService service.
//
// For semantics around ctx use and closing/ending streaming RPCs, please refer to
https://godoc.org/google.golang.org/grpc#ClientConn.NewStream.
type LicenseManagementServiceClient interface {
 // Gets the license pool.
 GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
 // Updates the license pool if one exists for this Order.
 UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool,
error)
 // Assigns a license to a user.
 Assign(ctx
 context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error)
 // Unassigns a license from a user.
 Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error)
 // Enumerates all users assigned a license.
```

```
 EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption)
(*EnumerateLicensedUsersResponse, error)
}

type licenseManagementServiceClient struct {
 cc grpc.ClientConnInterface
}

func NewLicenseManagementServiceClient(cc grpc.ClientConnInterface) LicenseManagementServiceClient {
 return &licenseManagementServiceClient{cc}
}

func (c *licenseManagementServiceClient) GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts
...grpc.CallOption) (*LicensePool, error) {
 out := new(LicensePool)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool", in, out, opts...)
 if err != nil {
  return nil, err
 }
 return
 out, nil
}

func (c *licenseManagementServiceClient) UpdateLicensePool(ctx context.Context, in
*UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
 out := new(LicensePool)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool", in, out,
opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

func (c *licenseManagementServiceClient) Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption)
(*AssignResponse, error) {
 out := new(AssignResponse)
 err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign", in,
out, opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

func (c *licenseManagementServiceClient) Unassign(ctx context.Context, in *UnassignRequest, opts
```

```
...grpc.CallOption) (*UnassignResponse, error) {
 out := new(UnassignResponse)
 err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
 in, out, opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

func (c *licenseManagementServiceClient) EnumerateLicensedUsers(ctx context.Context, in
*EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error) {
 out := new(EnumerateLicensedUsersResponse)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers", in, out,
opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

// LicenseManagementServiceServer is the server API for LicenseManagementService service.
type LicenseManagementServiceServer interface {
 // Gets the license pool.
 GetLicensePool(context.Context, *GetLicensePoolRequest) (*LicensePool, error)
 // Updates the license pool if one exists for this Order.
 UpdateLicensePool(context.Context, *UpdateLicensePoolRequest) (*LicensePool, error)
 // Assigns a license to a user.
 Assign(context.Context, *AssignRequest)
 (*AssignResponse, error)
 // Unassigns a license from a user.
 Unassign(context.Context, *UnassignRequest) (*UnassignResponse, error)
 // Enumerates all users assigned a license.
 EnumerateLicensedUsers(context.Context, *EnumerateLicensedUsersRequest)
(*EnumerateLicensedUsersResponse, error)
}

// UnimplementedLicenseManagementServiceServer can be embedded to have forward compatible
implementations.
type UnimplementedLicenseManagementServiceServer struct {
}

func (*UnimplementedLicenseManagementServiceServer) GetLicensePool(context.Context,
*GetLicensePoolRequest) (*LicensePool, error) {
 return nil, status.Errorf(codes.Unimplemented, "method GetLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) UpdateLicensePool(context.Context,
```

```
*UpdateLicensePoolRequest) (*LicensePool, error) {
 return nil, status.Errorf(codes.Unimplemented, "method UpdateLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Assign(context.Context, *AssignRequest)
 (*AssignResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method Assign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Unassign(context.Context, *UnassignRequest)
(*UnassignResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method Unassign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) EnumerateLicensedUsers(context.Context,
*EnumerateLicensedUsersRequest) (*EnumerateLicensedUsersResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method EnumerateLicensedUsers not implemented")
}

func RegisterLicenseManagementServiceServer(s *grpc.Server, srv LicenseManagementServiceServer) {
 s.RegisterService(&_LicenseManagementService_serviceDesc, srv)
}

func _LicenseManagementService_GetLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(GetLicensePoolRequest)
 if err := dec(in);
 err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, req.(*GetLicensePoolRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_UpdateLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(UpdateLicensePoolRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, in)
```

```
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool",
 }
 handler
 := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, req.(*UpdateLicensePoolRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Assign_Handler(srv interface{}, ctx context.Context, dec func(interface{})
error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(AssignRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).Assign(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).Assign(ctx, req.(*AssignRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Unassign_Handler(srv
 interface{}, ctx context.Context, dec func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{},
error) {
 in := new(UnassignRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).Unassign(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).Unassign(ctx, req.(*UnassignRequest))
 }
```

```
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_EnumerateLicensedUsers_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(EnumerateLicensedUsersRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if
 interceptor == nil {
  return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod:
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx,
req.(*EnumerateLicensedUsersRequest))
 }
 return interceptor(ctx, in, info, handler)
}

var _LicenseManagementService_serviceDesc = grpc.ServiceDesc{
 ServiceName: "google.cloud.commerce.consumer.procurement.v1.LicenseManagementService",
 HandlerType: (*LicenseManagementServiceServer)(nil),
 Methods: []grpc.MethodDesc{
  {
   MethodName: "GetLicensePool",
   Handler:    _LicenseManagementService_GetLicensePool_Handler,
  },
  {
   MethodName: "UpdateLicensePool",
   Handler:    _LicenseManagementService_UpdateLicensePool_Handler,
  },
  {
   MethodName: "Assign",
   Handler:
    _LicenseManagementService_Assign_Handler,
  },
  {
   MethodName: "Unassign",
   Handler:    _LicenseManagementService_Unassign_Handler,
  },
  {
   MethodName: "EnumerateLicensedUsers",
```

```
  Handler:    _LicenseManagementService_EnumerateLicensedUsers_Handler,
  },
 },
 Streams:  []grpc.StreamDesc{},
 Metadata: "google/cloud/commerce/consumer/procurement/v1/license_management_service.proto",
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "log/slog"
```

```
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var
 newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete             []gax.CallOption
 Get                []gax.CallOption
 GetIamPolicy       []gax.CallOption
 Insert             []gax.CallOption
 List               []gax.CallOption
 SetIamPolicy       []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
```

```
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  SetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
 }
}

//
 internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
```

```
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection
 to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
```

```
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty
 if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses,
 use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution
This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners
 who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
```

```
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions

 logger *slog.Logger
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
  logger:      internaloption.GetLogger(opts),
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
```

```
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient
 with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
```

```
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client
 and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Delete")
  if err != nil {
   return err
  }
```

```
 if err := unm.Unmarshal(buf,
resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders,
 hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
```

```
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
 exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds,
 "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
```

```
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetIamPolicy")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended
 for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
```

```
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.RequestId != nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx,
hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Insert")
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
```

```
  project: req.GetProject(),
  },
 }
 return op, nil
}

// List retrieves the
 list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32
  {
   req.MaxResults = proto.Uint32(uint32(math.MaxInt32))
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
  }
  if req != nil && req.MaxResults != nil {
   params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
  }
  if req != nil && req.OrderBy != nil {
   params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
  }
  if req != nil && req.PageToken != nil {
   params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
  }
  if req != nil && req.ReturnPartialSuccess != nil {
   params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
```

```
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from
client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "List")
  if err != nil {
   return err
  }
  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken,
nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()
```

```
 return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds
 := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()),
"resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "SetIamPolicy")
  if err != nil {
```

```
  return err
 }

 if
err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
```

```
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
  if err !=
 nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
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package compute_test

import (
 "context"
```

```
 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

```
func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package procurement_test

import (
 "context"

 procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
```

```
 procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
 longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicenseManagementClient() {
 ctx
 := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleNewLicenseManagementRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c,
 err := procurement.NewLicenseManagementRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseManagementClient_Assign() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
```

```
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.AssignRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#AssignRequest.
 }
 resp, err := c.Assign(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 //
 TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_EnumerateLicensedUsers() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.EnumerateLicensedUsersRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
dUsersRequest.
 }
 it := c.EnumerateLicensedUsers(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
```

```
 //
 TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*procurementpb.EnumerateLicensedUsersResponse)
 }
}

func ExampleLicenseManagementClient_GetLicensePool() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.GetLicensePoolRequest{
  // TODO: Fill request struct fields.
  //
 See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#GetLicensePoolRe
quest.
 }
 resp, err := c.GetLicensePool(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_Unassign() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
```

```
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.UnassignRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UnassignRequest.
 }
 resp,
 err := c.Unassign(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_UpdateLicensePool() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.UpdateLicensePoolRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UpdateLicensePoo
lRequest.
 }
 resp, err := c.UpdateLicensePool(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 //
 TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_GetOperation() {
```

```
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := procurement.NewLicenseManagementClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &longrunningpb.GetOperationRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/longrunning/autogen/longrunningpb#GetOperationRequest.
}
resp, err := c.GetOperation(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```


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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
```

```
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
```

```
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}
```

```
// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
```

```
}

func (x *Permission) Reset() {
 *x = Permission{}
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
 {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
```

```
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var
 File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69,
 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
 0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
 0x01, 0x01, 0x12,
 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
 0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
 0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
```

```
 0x54,
 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69,
 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f,
 0x72, 0x6f, 0x6c, 0x65, 0x42,
 0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72,
 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
```

```
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = []any{
 (Permission_GranteeType)(0),
 // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func file_google_ai_generativelanguage_v1beta_permission_proto_init()
 {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:           file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:         file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
```

file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
= nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}

1.4388 gnostic-models 0.6.9

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1.4389 otel-metric 1.33.0

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1.4392 otel-sdk-metric 1.33.0

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1.4393 google-cloud-go-auth 0.13.0

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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
```

```
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.DeleteLicenseRequest{
 //
TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
}
op, err := c.Delete(ctx, req)
if err != nil {
 // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
 // TODO: Handle error.
}
}

func ExampleLicensesClient_Get() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
}
resp,
err := c.Get(ctx, req)
if err != nil {
 // TODO: Handle error.
```

```
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
```

```
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*computepb.LicensesListResponse)
 }
}
```

```
func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
```

```
 }
 // TODO: Use resp.
 _ = resp
}
```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleLicensesClient_List_all() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications
 to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 for resp, err := range c.List(ctx, req).All() {
  if err != nil {
```

```
  // TODO: Handle error and break/return/continue. Iteration will stop after any error.
  }
  // TODO: Use resp.
  _ = resp
 }
}
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//go:build go1.23

package procurement_test

import (
 "context"

 procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
 procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
)

func ExampleLicenseManagementClient_EnumerateLicensedUsers_all() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.EnumerateLicensedUsersRequest{
```

```
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
dUsersRequest.
 }
 for resp, err := range c.EnumerateLicensedUsers(ctx, req).All() {
  if err != nil {
   // TODO: Handle error and break/return/continue. Iteration will stop after any error.
  }
  // TODO: Use resp.
  _ = resp
 }
}

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// versions:
//  protoc-gen-go v1.35.2
//  protoc        v4.25.3
// source: google/cloud/commerce/consumer/procurement/v1/license_management_service.proto

package procurementpb
```

```
import (
 context "context"
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 grpc "google.golang.org/grpc"
 codes "google.golang.org/grpc/codes"
 status
 "google.golang.org/grpc/status"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
 durationpb "google.golang.org/protobuf/types/known/durationpb"
 fieldmaskpb "google.golang.org/protobuf/types/known/fieldmaskpb"
 timestamppb "google.golang.org/protobuf/types/known/timestamppb"
)

const (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Assignment protocol for a license pool.
type AssignmentProtocol struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // The type of assignment protocol.
 //
 // Types that are assignable to AssignmentType:
 //
 // *AssignmentProtocol_ManualAssignmentType_
 // *AssignmentProtocol_AutoAssignmentType_
 AssignmentType
 isAssignmentProtocol_AssignmentType `protobuf_oneof:"assignment_type"`
}

func (x *AssignmentProtocol) Reset() {
 *x = AssignmentProtocol{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}
```

```
func (x *AssignmentProtocol) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol) ProtoMessage() {}

func (x *AssignmentProtocol) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
 []int{0}
}

func (m *AssignmentProtocol) GetAssignmentType() isAssignmentProtocol_AssignmentType {
 if m != nil {
  return m.AssignmentType
 }
 return nil
}

func (x *AssignmentProtocol) GetManualAssignmentType() *AssignmentProtocol_ManualAssignmentType {
 if x, ok := x.GetAssignmentType().(*AssignmentProtocol_ManualAssignmentType_); ok {
  return x.ManualAssignmentType
 }
 return nil
}

func (x *AssignmentProtocol) GetAutoAssignmentType() *AssignmentProtocol_AutoAssignmentType {
 if x, ok := x.GetAssignmentType().(*AssignmentProtocol_AutoAssignmentType_); ok {
  return x.AutoAssignmentType
 }
 return nil
}
```

```
type isAssignmentProtocol_AssignmentType interface {
 isAssignmentProtocol_AssignmentType()
}

type AssignmentProtocol_ManualAssignmentType_ struct {
 // Allow manual assignments triggered by administrative operations only.
 ManualAssignmentType *AssignmentProtocol_ManualAssignmentType
`protobuf:"bytes,2,opt,name=manual_assignment_type,json=manualAssignmentType,proto3,oneof"`
}

type
 AssignmentProtocol_AutoAssignmentType_ struct {
 // Allow automatic assignments triggered by data plane operations.
 AutoAssignmentType *AssignmentProtocol_AutoAssignmentType
`protobuf:"bytes,3,opt,name=auto_assignment_type,json=autoAssignmentType,proto3,oneof"`
}

func (*AssignmentProtocol_ManualAssignmentType_) isAssignmentProtocol_AssignmentType() {}

func (*AssignmentProtocol_AutoAssignmentType_) isAssignmentProtocol_AssignmentType() {}

// A license pool represents a pool of licenses that can be assigned to users.
type LicensePool struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Identifier. Format:
 // `billingAccounts/{billing_account}/orders/{order}/licensePool`
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Required. Assignment protocol for the license pool.
 LicenseAssignmentProtocol *AssignmentProtocol
`protobuf:"bytes,2,opt,name=license_assignment_protocol,json=licenseAssignmentProtocol,proto3"
 json:"license_assignment_protocol,omitempty"`
 // Output only. Licenses count that are available to be assigned.
 AvailableLicenseCount int32
`protobuf:"varint,3,opt,name=available_license_count,json=availableLicenseCount,proto3"
json:"available_license_count,omitempty"`
 // Output only. Total number of licenses in the pool.
 TotalLicenseCount int32 `protobuf:"varint,4,opt,name=total_license_count,json=totalLicenseCount,proto3"
json:"total_license_count,omitempty"`
}

func (x *LicensePool) Reset() {
 *x = LicensePool{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
```

```
 ms.StoreMessageInfo(mi)
}

func (x *LicensePool) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*LicensePool) ProtoMessage() {}

func (x *LicensePool) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
 if
 x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use LicensePool.ProtoReflect.Descriptor instead.
func (*LicensePool) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{1}
}

func (x *LicensePool) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *LicensePool) GetLicenseAssignmentProtocol() *AssignmentProtocol {
 if x != nil {
  return x.LicenseAssignmentProtocol
 }
 return nil
}

func (x *LicensePool) GetAvailableLicenseCount() int32 {
 if x != nil {
  return x.AvailableLicenseCount
 }
```

```
 return 0
}

func (x *LicensePool) GetTotalLicenseCount() int32 {
 if x != nil {
  return x.TotalLicenseCount
 }
 return 0
}

// Request message for getting a
 license pool.
type GetLicensePoolRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. The name of the license pool to get.
 // Format: `billingAccounts/{billing_account}/orders/{order}/licensePool`
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
}

func (x *GetLicensePoolRequest) Reset() {
 *x = GetLicensePoolRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *GetLicensePoolRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*GetLicensePoolRequest) ProtoMessage() {}

func (x *GetLicensePoolRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if
 ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
```

```
}

// Deprecated: Use GetLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*GetLicensePoolRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{2}
}

func (x *GetLicensePoolRequest) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

// Request message for updating a license pool.
type UpdateLicensePoolRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. The license pool to update.
 //
 // The license pool's name field is used to identify the license pool to
 // update. Format:
 // `billingAccounts/{billing_account}/orders/{order}/licensePool`.
 LicensePool *LicensePool `protobuf:"bytes,1,opt,name=license_pool,json=licensePool,proto3"
json:"license_pool,omitempty"`
 //
 Required. The list of fields to update.
 UpdateMask *fieldmaskpb.FieldMask `protobuf:"bytes,2,opt,name=update_mask,json=updateMask,proto3"
json:"update_mask,omitempty"`
}

func (x *UpdateLicensePoolRequest) Reset() {
 *x = UpdateLicensePoolRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *UpdateLicensePoolRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*UpdateLicensePoolRequest) ProtoMessage() {}
```

```
func (x *UpdateLicensePoolRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use UpdateLicensePoolRequest.ProtoReflect.Descriptor
 instead.
func (*UpdateLicensePoolRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{3}
}

func (x *UpdateLicensePoolRequest) GetLicensePool() *LicensePool {
 if x != nil {
  return x.LicensePool
 }
 return nil
}

func (x *UpdateLicensePoolRequest) GetUpdateMask() *fieldmaskpb.FieldMask {
 if x != nil {
  return x.UpdateMask
 }
 return nil
}

// Request message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementServic
e.Assign].
type AssignRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. License pool name.
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Required. Username.
```

```
 // Format: `name@domain.com`.
 Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func
 (x *AssignRequest) Reset() {
 *x = AssignRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignRequest) ProtoMessage() {}

func (x *AssignRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignRequest.ProtoReflect.Descriptor instead.
func (*AssignRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{4}
}

func (x *AssignRequest) GetParent()
 string {
 if x != nil {
  return x.Parent
 }
 return ""
}

func (x *AssignRequest) GetUsernames() []string {
```

```
 if x != nil {
  return x.Usernames
 }
 return nil
}

// Response message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementServic
e.Assign].
type AssignResponse struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
}

func (x *AssignResponse) Reset() {
 *x = AssignResponse{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignResponse) ProtoMessage() {}

func (x *AssignResponse) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
 if x
 != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignResponse.ProtoReflect.Descriptor instead.
func (*AssignResponse) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
```

```
[]int{5}
}

// Request message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. License pool name.
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Required. Username.
 // Format: `name@domain.com`.
 Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func (x *UnassignRequest) Reset()
 {
 *x = UnassignRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *UnassignRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*UnassignRequest) ProtoMessage() {}

func (x *UnassignRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use UnassignRequest.ProtoReflect.Descriptor instead.
```

```
func (*UnassignRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{6}
}

func (x *UnassignRequest) GetParent() string {
 if x != nil {
  return
 x.Parent
 }
 return ""
}

func (x *UnassignRequest) GetUsernames() []string {
 if x != nil {
  return x.Usernames
 }
 return nil
}

// Response message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignResponse struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
}

func (x *UnassignResponse) Reset() {
 *x = UnassignResponse{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *UnassignResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*UnassignResponse) ProtoMessage() {}

func (x *UnassignResponse) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
```

```
 if x != nil {
  ms
 := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use UnassignResponse.ProtoReflect.Descriptor instead.
func (*UnassignResponse) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{7}
}

// Request message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. License pool name.
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Optional. The maximum number of users to return. The service may return
 // fewer than this value.
 PageSize int32 `protobuf:"varint,2,opt,name=page_size,json=pageSize,proto3"
 json:"page_size,omitempty"`
 // Optional. A page token, received from a previous `EnumerateLicensedUsers`
 // call. Provide this to retrieve the subsequent page.
 PageToken string `protobuf:"bytes,3,opt,name=page_token,json=pageToken,proto3" json:"page_token,omitempty"`
}

func (x *EnumerateLicensedUsersRequest) Reset() {
 *x = EnumerateLicensedUsersRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
```

```
}

func (*EnumerateLicensedUsersRequest) ProtoMessage() {}

func (x *EnumerateLicensedUsersRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo()
 == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersRequest.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{8}
}

func (x *EnumerateLicensedUsersRequest) GetParent() string {
 if x != nil {
  return x.Parent
 }
 return ""
}

func (x *EnumerateLicensedUsersRequest) GetPageSize() int32 {
 if x != nil {
  return x.PageSize
 }
 return 0
}

func (x *EnumerateLicensedUsersRequest) GetPageToken() string {
 if x != nil {
  return x.PageToken
 }
 return ""
}

// A licensed user.
type LicensedUser struct {
```

```
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Username.
 // Format: `name@domain.com`.
 Username string `protobuf:"bytes,1,opt,name=username,proto3" json:"username,omitempty"`
 //
 Output only. Timestamp when the license was assigned.
 AssignTime *timestamppb.Timestamp `protobuf:"bytes,2,opt,name=assign_time,json=assignTime,proto3"
json:"assign_time,omitempty"`
 // Output only. Timestamp when the license was recently used. This may not be
 // the most recent usage time, and will be updated regularly (within 24
 // hours).
 RecentUsageTime *timestamppb.Timestamp
`protobuf:"bytes,3,opt,name=recent_usage_time,json=recentUsageTime,proto3"
json:"recent_usage_time,omitempty"`
}

func (x *LicensedUser) Reset() {
 *x = LicensedUser{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *LicensedUser) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*LicensedUser) ProtoMessage() {}

func (x *LicensedUser) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
 if
 x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use LicensedUser.ProtoReflect.Descriptor instead.
```

```
func (*LicensedUser) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{9}
}

func (x *LicensedUser) GetUsername() string {
 if x != nil {
  return x.Username
 }
 return ""
}

func (x *LicensedUser) GetAssignTime() *timestamppb.Timestamp {
 if x != nil {
  return x.AssignTime
 }
 return nil
}

func (x *LicensedUser) GetRecentUsageTime() *timestamppb.Timestamp {
 if x != nil {
  return x.RecentUsageTime
 }
 return nil
}

// Response message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersResponse
 struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // The list of licensed users.
 LicensedUsers []*LicensedUser `protobuf:"bytes,1,rep,name=licensed_users,json=licensedUsers,proto3"
json:"licensed_users,omitempty"`
 // A token that can be sent as `page_token` to retrieve the next page.
 // If this field is omitted, there are no subsequent pages.
 NextPageToken string `protobuf:"bytes,2,opt,name=next_page_token,json=nextPageToken,proto3"
json:"next_page_token,omitempty"`
}

func (x *EnumerateLicensedUsersResponse) Reset() {
 *x = EnumerateLicensedUsersResponse{}
```

```
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersResponse) ProtoMessage() {}

func
 (x *EnumerateLicensedUsersResponse) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersResponse.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersResponse) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{10}
}

func (x *EnumerateLicensedUsersResponse) GetLicensedUsers() []*LicensedUser {
 if x != nil {
  return x.LicensedUsers
 }
 return nil
}

func (x *EnumerateLicensedUsersResponse) GetNextPageToken() string {
 if x != nil {
  return x.NextPageToken
 }
 return ""
}

// Allow manual assignments triggered by administrative operations only.
```

```
type AssignmentProtocol_ManualAssignmentType
 struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
}

func (x *AssignmentProtocol_ManualAssignmentType) Reset() {
 *x = AssignmentProtocol_ManualAssignmentType{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_ManualAssignmentType) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_ManualAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_ManualAssignmentType) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated:
 Use AssignmentProtocol_ManualAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_ManualAssignmentType) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{0, 0}
}

// Configuration for automatic assignments handled by data plane operations.
type AssignmentProtocol_AutoAssignmentType struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
```

```
 // Optional. The time to live for an inactive license. After this time has
 // passed, the license will be automatically unassigned from the user. Must
 // be at least 7 days, if set. If unset, the license will never expire.
 InactiveLicenseTtl *durationpb.Duration
`protobuf:"bytes,1,opt,name=inactive_license_ttl,json=inactiveLicenseTtl,proto3"
json:"inactive_license_ttl,omitempty"`
}

func (x *AssignmentProtocol_AutoAssignmentType) Reset() {
 *x = AssignmentProtocol_AutoAssignmentType{}
 mi
 := &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_AutoAssignmentType) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_AutoAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_AutoAssignmentType) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol_AutoAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_AutoAssignmentType) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
 []int{0, 1}
}

func (x *AssignmentProtocol_AutoAssignmentType) GetInactiveLicenseTtl() *durationpb.Duration {
 if x != nil {
  return x.InactiveLicenseTtl
 }
 return nil
}
```

```
var File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto
protoreflect.FileDescriptor

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc =
[]byte{
 0x0a, 0x4e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2f, 0x63,
 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x76, 0x31, 0x2f,
 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x6d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65,
 0x6e, 0x74, 0x5f, 0x73, 0x65, 0x72, 0x76, 0x69, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f,
 0x12, 0x2d, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63,
 0x6f,
 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x1a,
 0x1c, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x61, 0x6e, 0x6e, 0x6f,
 0x74, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x73, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x17, 0x67,
 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x63, 0x6c, 0x69, 0x65, 0x6e, 0x74,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61,
 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f,
 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f,
 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f,
 0x74, 0x6f, 0x1a, 0x1e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
 0x62, 0x75, 0x66, 0x2f, 0x64,
 0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x2e, 0x70, 0x72, 0x6f,
 0x74, 0x6f, 0x1a, 0x20, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
 0x62, 0x75, 0x66, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x6d, 0x61, 0x73, 0x6b, 0x2e, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f,
 0x74, 0x6f, 0x62, 0x75, 0x66, 0x2f, 0x74, 0x69, 0x6d, 0x65, 0x73, 0x74, 0x61, 0x6d, 0x70, 0x2e,
 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0xc3, 0x03, 0x0a, 0x12, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e,
 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x8e, 0x01, 0x0a,
 0x16, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65,
 0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x56, 0x2e,
 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d,
 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73,
 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70,
 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73,
 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c,
 0x2e, 0x4d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e,
 0x74, 0x54, 0x79, 0x70, 0x65, 0x48, 0x00, 0x52, 0x14, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41,
 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x88, 0x01,
 0x0a, 0x14, 0x61, 0x75, 0x74, 0x6f, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e,
 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x03, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x54, 0x2e, 0x67,
 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d,
 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72,
 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73,
 0x73,
 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x2e,
```

0x41, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79,
0x70, 0x65, 0x48, 0x00, 0x52, 0x12, 0x61, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e,
0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x1a, 0x16, 0x0a, 0x14, 0x4d, 0x61, 0x6e, 0x75,
0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65,
0x1a, 0x66, 0x0a, 0x12, 0x41, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65,
0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x50, 0x0a, 0x14, 0x69, 0x6e, 0x61, 0x63, 0x74, 0x69,
0x76, 0x65, 0x5f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x74, 0x74, 0x6c, 0x18, 0x01,
0x20, 0x01, 0x28, 0x0b, 0x32, 0x19, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x70, 0x72,
0x6f, 0x74, 0x6f, 0x62, 0x75, 0x66, 0x2e, 0x44, 0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x42,
0x03, 0xe0, 0x41, 0x01,
0x52, 0x12, 0x69, 0x6e, 0x61, 0x63, 0x74, 0x69, 0x76, 0x65, 0x4c, 0x69,
0x63, 0x65, 0x6e, 0x73, 0x65, 0x54, 0x74, 0x6c, 0x42, 0x11, 0x0a, 0x0f, 0x61, 0x73, 0x73, 0x69,
0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x22, 0xbe, 0x03, 0x0a, 0x0b,
0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x12, 0x17, 0x0a, 0x04, 0x6e,
0x61, 0x6d, 0x65, 0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04,
0x6e, 0x61, 0x6d, 0x65, 0x12, 0x86, 0x01, 0x0a, 0x1b, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65,
0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x5f, 0x70, 0x72, 0x6f, 0x74,
0x6f, 0x63, 0x6f, 0x6c, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x41, 0x2e, 0x67, 0x6f, 0x6f,
0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72,
0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63,
0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76,
0x31, 0x2e, 0x41, 0x73, 0x73, 0x69, 0x67,
0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x42, 0x03, 0xe0,
0x41, 0x02, 0x52, 0x19, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x41, 0x73, 0x73, 0x69, 0x67,
0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x3b, 0x0a,
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0xe7, 0x01, 0x0a, 0x08, 0x55, 0x6e, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x12, 0x3e, 0x2e, 0x67,
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0x65, 0x73, 0x82, 0xd3, 0xe4, 0x93, 0x02, 0x41, 0x3a, 0x01, 0x2a, 0x22, 0x3c, 0x2f, 0x76, 0x31,
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0x75, 0x6d, 0x65, 0x72, 0x61, 0x74, 0x65, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x64, 0x55,
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0x74, 0x2e, 0x76, 0x31, 0x2e, 0x45, 0x6e, 0x75, 0x6d, 0x65, 0x72, 0x61, 0x74, 0x65, 0x4c, 0x69,
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0x65, 0x22, 0x5b, 0xda, 0x41, 0x06, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x82, 0xd3, 0xe4, 0x93,
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0x2a, 0x2f, 0x6f,

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 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63,
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 0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x43, 0x6c, 0x6f, 0x75,
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 0x2e, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x56, 0x31, 0xca,
 0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x5c, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x5c, 0x43,
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 0x3a, 0x3a, 0x56, 0x31, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce
sync.Once
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
 = file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc
)

func
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP()
[]byte {
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce.Do(f
unc() {
  file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_cloud_commerce_consumer_procurement_v1_license_management_servi
```

```
ce_proto_rawDescData)
 })
 return file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
}

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes =
make([]protoimpl.MessageInfo, 13)
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes =
[]any{
 (*AssignmentProtocol)(nil),
                    // 0: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
 (*LicensePool)(nil),                        // 1: google.cloud.commerce.consumer.procurement.v1.LicensePool
 (*GetLicensePoolRequest)(nil),                  // 2:
google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
 (*UpdateLicensePoolRequest)(nil),               // 3:
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
 (*AssignRequest)(nil),                      // 4: google.cloud.commerce.consumer.procurement.v1.AssignRequest
 (*AssignResponse)(nil),                      // 5: google.cloud.commerce.consumer.procurement.v1.AssignResponse
 (*UnassignRequest)(nil),                     // 6: google.cloud.commerce.consumer.procurement.v1.UnassignRequest
 (*UnassignResponse)(nil),                    // 7: google.cloud.commerce.consumer.procurement.v1.UnassignResponse
 (*EnumerateLicensedUsersRequest)(nil),          // 8:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
 (*LicensedUser)(nil),
                        // 9: google.cloud.commerce.consumer.procurement.v1.LicensedUser
 (*EnumerateLicensedUsersResponse)(nil),         // 10:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
 (*AssignmentProtocol_ManualAssignmentType)(nil), // 11:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
 (*AssignmentProtocol_AutoAssignmentType)(nil),   // 12:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
 (*fieldmaskpb.FieldMask)(nil),                  // 13: google.protobuf.FieldMask
 (*timestamppb.Timestamp)(nil),                  // 14: google.protobuf.Timestamp
 (*durationpb.Duration)(nil),                    // 15: google.protobuf.Duration
}
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs =
[]int32{
 11, // 0:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.manual_assignment_type:type_name
 -> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
 12, // 1: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.auto_assignment_type:type_name -
> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
 0,  // 2: google.cloud.commerce.consumer.procurement.v1.LicensePool.license_assignment_protocol:type_name ->
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
 1,  // 3: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.license_pool:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 13, // 4: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.update_mask:type_name ->
google.protobuf.FieldMask
 14, // 5: google.cloud.commerce.consumer.procurement.v1.LicensedUser.assign_time:type_name ->
```

```
google.protobuf.Timestamp
 14, // 6: google.cloud.commerce.consumer.procurement.v1.LicensedUser.recent_usage_time:type_name
 -> google.protobuf.Timestamp
 9,  // 7:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse.licensed_users:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensedUser
 15, // 8:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType.inactive_license_ttl:t
ype_name -> google.protobuf.Duration
 2,  // 9: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:input_type -
> google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
 3,  // 10:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:input_type ->
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
 4,  // 11: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:input_type ->
google.cloud.commerce.consumer.procurement.v1.AssignRequest
 6,  // 12: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:input_type
 -> google.cloud.commerce.consumer.procurement.v1.UnassignRequest
 8,  // 13:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:input_typ
e -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
 1,  // 14:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 1,  // 15:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 5,  // 16: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:output_type ->
google.cloud.commerce.consumer.procurement.v1.AssignResponse
 7,  // 17: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:output_type ->
google.cloud.commerce.consumer.procurement.v1.UnassignResponse
 10, // 18:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:output_ty
pe
 -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
 14, // [14:19] is the sub-list for method output_type
 9,  // [9:14] is the sub-list for method input_type
 9,  // [9:9] is the sub-list for extension type_name
 9,  // [9:9] is the sub-list for extension extendee
 0,  // [0:9] is the sub-list for field type_name
}

func init() {
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init()
}
func file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init() {
 if File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto != nil {
  return
```

```
 }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].OneofWrappers = []any{
  (*AssignmentProtocol_ManualAssignmentType_)(nil),
  (*AssignmentProtocol_AutoAssignmentType_)(nil),
 }
 type x struct{}
 out := protoimpl.TypeBuilder{
  File:
 protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc,
   NumEnums:      0,
   NumMessages:   13,
   NumExtensions: 0,
   NumServices:   1,
  },
  GoTypes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes,
  DependencyIndexes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs,
  MessageInfos:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes,
 }.Build()
 File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto = out.File
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc = nil
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes = nil
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs
 = nil
}

// Reference imports to suppress errors if they are not otherwise used.
var _ context.Context
var _ grpc.ClientConnInterface

// This is a compile-time assertion to ensure that this generated file
// is compatible with the grpc package it is being compiled against.
const _ = grpc.SupportPackageIsVersion6

// LicenseManagementServiceClient is the client API for LicenseManagementService service.
//
// For semantics around ctx use and closing/ending streaming RPCs, please refer to
https://godoc.org/google.golang.org/grpc#ClientConn.NewStream.
type LicenseManagementServiceClient interface {
 // Gets the license pool.
 GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
 // Updates the license pool if one exists for this Order.
```

```
 UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool,
error)
 // Assigns a license to a user.
 Assign(ctx
 context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error)
 // Unassigns a license from a user.
 Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error)
 // Enumerates all users assigned a license.
 EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption)
(*EnumerateLicensedUsersResponse, error)
}

type licenseManagementServiceClient struct {
 cc grpc.ClientConnInterface
}

func NewLicenseManagementServiceClient(cc grpc.ClientConnInterface) LicenseManagementServiceClient {
 return &licenseManagementServiceClient{cc}
}

func (c *licenseManagementServiceClient) GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts
...grpc.CallOption) (*LicensePool, error) {
 out := new(LicensePool)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool", in, out, opts...)
 if err != nil {
  return nil, err
 }
 return
 out, nil
}

func (c *licenseManagementServiceClient) UpdateLicensePool(ctx context.Context, in
*UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
 out := new(LicensePool)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool", in, out,
opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

func (c *licenseManagementServiceClient) Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption)
(*AssignResponse, error) {
 out := new(AssignResponse)
 err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign", in,
```

```
out, opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

func (c *licenseManagementServiceClient) Unassign(ctx context.Context, in *UnassignRequest, opts
...grpc.CallOption) (*UnassignResponse, error) {
 out := new(UnassignResponse)
 err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
 in, out, opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

func (c *licenseManagementServiceClient) EnumerateLicensedUsers(ctx context.Context, in
*EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error) {
 out := new(EnumerateLicensedUsersResponse)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers", in, out,
opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

// LicenseManagementServiceServer is the server API for LicenseManagementService service.
type LicenseManagementServiceServer interface {
 // Gets the license pool.
 GetLicensePool(context.Context, *GetLicensePoolRequest) (*LicensePool, error)
 // Updates the license pool if one exists for this Order.
 UpdateLicensePool(context.Context, *UpdateLicensePoolRequest) (*LicensePool, error)
 // Assigns a license to a user.
 Assign(context.Context, *AssignRequest)
 (*AssignResponse, error)
 // Unassigns a license from a user.
 Unassign(context.Context, *UnassignRequest) (*UnassignResponse, error)
 // Enumerates all users assigned a license.
 EnumerateLicensedUsers(context.Context, *EnumerateLicensedUsersRequest)
(*EnumerateLicensedUsersResponse, error)
}

// UnimplementedLicenseManagementServiceServer can be embedded to have forward compatible
implementations.
```

```
type UnimplementedLicenseManagementServiceServer struct {
}

func (*UnimplementedLicenseManagementServiceServer) GetLicensePool(context.Context,
*GetLicensePoolRequest) (*LicensePool, error) {
 return nil, status.Errorf(codes.Unimplemented, "method GetLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) UpdateLicensePool(context.Context,
*UpdateLicensePoolRequest) (*LicensePool, error) {
 return nil, status.Errorf(codes.Unimplemented, "method UpdateLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Assign(context.Context, *AssignRequest)
 (*AssignResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method Assign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Unassign(context.Context, *UnassignRequest)
(*UnassignResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method Unassign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) EnumerateLicensedUsers(context.Context,
*EnumerateLicensedUsersRequest) (*EnumerateLicensedUsersResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method EnumerateLicensedUsers not implemented")
}

func RegisterLicenseManagementServiceServer(s *grpc.Server, srv LicenseManagementServiceServer) {
 s.RegisterService(&_LicenseManagementService_serviceDesc, srv)
}

func _LicenseManagementService_GetLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(GetLicensePoolRequest)
 if err := dec(in);
 err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, req.(*GetLicensePoolRequest))
 }
 return interceptor(ctx, in, info, handler)
}
```

```
func _LicenseManagementService_UpdateLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(UpdateLicensePoolRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool",
 }
 handler
 := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, req.(*UpdateLicensePoolRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Assign_Handler(srv interface{}, ctx context.Context, dec func(interface{})
error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(AssignRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).Assign(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).Assign(ctx, req.(*AssignRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Unassign_Handler(srv
 interface{}, ctx context.Context, dec func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{},
error) {
 in := new(UnassignRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).Unassign(ctx, in)
```

```
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).Unassign(ctx, req.(*UnassignRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_EnumerateLicensedUsers_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(EnumerateLicensedUsersRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if
 interceptor == nil {
  return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod:
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx,
req.(*EnumerateLicensedUsersRequest))
 }
 return interceptor(ctx, in, info, handler)
}

var _LicenseManagementService_serviceDesc = grpc.ServiceDesc{
 ServiceName: "google.cloud.commerce.consumer.procurement.v1.LicenseManagementService",
 HandlerType: (*LicenseManagementServiceServer)(nil),
 Methods: []grpc.MethodDesc{
  {
   MethodName: "GetLicensePool",
   Handler:    _LicenseManagementService_GetLicensePool_Handler,
  },
  {
   MethodName: "UpdateLicensePool",
   Handler:    _LicenseManagementService_UpdateLicensePool_Handler,
  },
  {
   MethodName: "Assign",
   Handler:
```

```
    _LicenseManagementService_Assign_Handler,
  },
  {
   MethodName: "Unassign",
   Handler:    _LicenseManagementService_Unassign_Handler,
  },
  {
   MethodName: "EnumerateLicensedUsers",
   Handler:    _LicenseManagementService_EnumerateLicensedUsers_Handler,
  },
 },
 Streams:  []grpc.StreamDesc{},
 Metadata: "google/cloud/commerce/consumer/procurement/v1/license_management_service.proto",
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test
// Copyright 2024 Google LLC
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.
```

```
package compute

import (
 "bytes"
 "context"
 "fmt"
 "log/slog"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var
 newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
```

```
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 GetIamPolicy:
[]gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 Insert: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 List: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 SetIamPolicy: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 TestIamPermissions: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
}
}

//
 internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
```

```
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection
 to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
```

```
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty
 if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses,
 use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
```

```
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners
 who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions

 logger *slog.Logger
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
```

```
  logger:      internaloption.GetLogger(opts),
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient
 with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
```

```
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client
 and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
```

```
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Delete")
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf,
resp); err != nil {
  return err
 }

 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders,
 hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
```

```
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
 exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()
```

```
 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds,
 "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetIamPolicy")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended
 for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
```

```
if err != nil {
 return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.RequestId != nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx,
hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Insert")
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
```

```
 }, opts...)
 if e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// List retrieves the
 list of licenses available in the specified project. This method does not get any licenses that belong to other projects,
including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available
licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32
  {
   req.MaxResults = proto.Uint32(uint32(math.MaxInt32))
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
  }
  if req != nil && req.MaxResults != nil {
   params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
  }
```

```
 if req != nil && req.OrderBy != nil {
  params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req != nil && req.PageToken != nil {
  params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from
client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "List")
  if err != nil {
   return err
  }
  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
```

```
  it.items = append(it.items, items...)
  return nextPageToken,
 nil
 }

 it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
 it.pageInfo.MaxSize = int(req.GetMaxResults())
 it.pageInfo.Token = req.GetPageToken()

 return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds
 := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()),
"resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
```

```
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "SetIamPolicy")
  if err != nil {
   return err
  }

  if
 err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource()))}
```

```
 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
  if err !=
 nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
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```

```
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
```

```
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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```

```
// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package procurement_test

import (
 "context"

 procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
 procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
 longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicenseManagementClient() {
 ctx
 := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleNewLicenseManagementRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c,
 err := procurement.NewLicenseManagementRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}
```

```
func ExampleLicenseManagementClient_Assign() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.AssignRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#AssignRequest.
 }
 resp, err := c.Assign(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 //
 TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_EnumerateLicensedUsers() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.EnumerateLicensedUsersRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
dUsersRequest.
 }
 it := c.EnumerateLicensedUsers(ctx, req)
```

```
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  //
 TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*procurementpb.EnumerateLicensedUsersResponse)
 }
}

func ExampleLicenseManagementClient_GetLicensePool() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.GetLicensePoolRequest{
  // TODO: Fill request struct fields.
  //
 See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#GetLicensePoolRe
quest.
 }
 resp, err := c.GetLicensePool(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

```
func ExampleLicenseManagementClient_Unassign() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.UnassignRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UnassignRequest.
 }
 resp,
 err := c.Unassign(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_UpdateLicensePool() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.UpdateLicensePoolRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UpdateLicensePoo
lRequest.
 }
 resp, err := c.UpdateLicensePool(ctx, req)
 if err != nil {
```

```
 // TODO: Handle error.
 }
 //
 TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_GetOperation() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &longrunningpb.GetOperationRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/longrunning/autogen/longrunningpb#GetOperationRequest.
 }
 resp, err := c.GetOperation(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
```

```
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
```

```
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}
```

```
func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
```

```
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
 {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}
```

```
func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var
 File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69,
 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
 0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
 0x01, 0x01, 0x12,
 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
```

```
0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54,
0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69,
0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f,
0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
0x72,
0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
```

```
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = []any{
 (Permission_GranteeType)(0),
 // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func file_google_ai_generativelanguage_v1beta_permission_proto_init()
 {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
```

```
},
GoTypes:          file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
EnumInfos:        file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
MessageInfos:     file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
= nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
```

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1.4395 proto-otlp 1.4.0

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
```

Name string `json:"name,omitempty"`
URL string `json:"url,omitempty"`
}
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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go-runhcs is a fork of go-runc

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runc

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Go support for Protocol Buffers - Google's data interchange format

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1.4405 image 5.32.2

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1.4406 wrapt 1.17.2

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1.4407 moby-sys-reexec 0.1.0

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1.4408 buildkit 0.18.2

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// SPDX Document for version 2.2 of the spec.
type OtherLicense struct {
 // 10.1: License Identifier: "LicenseRef-[idstring]"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 10.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //              License Identifier assigned
 ExtractedText string `json:"extractedText"`
```

```
// 10.3: License Name: single line of text or "NOASSERTION"
// Cardinality: conditional (mandatory, one) if license is not
//             on SPDX License List
LicenseName string `json:"name,omitempty"`

// 10.4: License Cross Reference
// Cardinality: conditional (optional, one or many) if license
//             is not on SPDX License List
LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

//
10.5: License Comment
// Cardinality: optional, one
LicenseComment string `json:"comment,omitempty"`
}
```

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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// OtherLicense is an Other License Information section of an
// SPDX Document for version 2.1 of the spec.
type OtherLicense struct {
 // 6.1: License Identifier: "LicenseRef-[idstring]"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 6.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //              License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 6.3: License Name: single line of text or "NOASSERTION"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseName string `json:"name,omitempty"`

 // 6.4: License Cross Reference
 // Cardinality: conditional (optional, one or many) if license
 //              is not on SPDX License List
 LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

 // 6.5:
 License Comment
 // Cardinality: optional, one
 LicenseComment string `json:"comment,omitempty"`
}
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```
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// OtherLicense is an Other License Information section of an SPDX Document
type OtherLicense struct {
 // 10.1: License Identifier: "LicenseRef-[idstring]"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 10.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //              License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 10.3: License Name: single line of text or "NOASSERTION"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseName string `json:"name,omitempty"`

 // 10.4: License Cross Reference
 // Cardinality: conditional (optional, one or many) if license
```

```
 //            is not on SPDX License List
 LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

 // 10.5: License Comment
 // Cardinality:
 optional, one
 LicenseComment string `json:"comment,omitempty"`
}
```

procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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localtime.go, localtime_test.go:

Originals:
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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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// ISO C9x compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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github.com/pelletier/go-toml:

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localtime.go, localtime_test.go:

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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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 // 10.1: License Identifier: "LicenseRef-[idstring]"
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```

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//              on SPDX License List
LicenseIdentifier string `json:"licenseId"`

// 10.2: Extracted Text
// Cardinality: conditional (mandatory, one) if there is a
//              License Identifier assigned
ExtractedText string `json:"extractedText"`

// 10.3: License Name: single line of text or "NOASSERTION"
// Cardinality: conditional (mandatory, one) if license is not
//              on SPDX License List
LicenseName string `json:"name,omitempty"`

// 10.4: License Cross Reference
// Cardinality: conditional (optional, one or many) if license
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LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

//
10.5: License Comment
// Cardinality: optional, one
LicenseComment string `json:"comment,omitempty"`
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// OtherLicense is an Other License Information section of an
// SPDX Document for version 2.1 of the spec.
type OtherLicense struct {
 // 6.1: License Identifier: "LicenseRef-[idstring]"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 6.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //              License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 6.3: License Name: single line of text or "NOASSERTION"
```

```
// Cardinality: conditional (mandatory, one) if license is not
//             on SPDX License List
LicenseName string `json:"name,omitempty"`

// 6.4: License Cross Reference
// Cardinality: conditional (optional, one or many) if license
//             is not on SPDX License List
LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

// 6.5:
License Comment
// Cardinality: optional, one
LicenseComment string `json:"comment,omitempty"`
}
```

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type OtherLicense struct {
 // 10.1: License Identifier: "LicenseRef-[idstring]"
 // Cardinality: conditional (mandatory, one) if license is not
 //   on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 10.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a

```
//            License Identifier assigned
ExtractedText string `json:"extractedText"`

// 10.3: License Name: single line of text or "NOASSERTION"
// Cardinality: conditional (mandatory, one) if license is not
//            on SPDX License List
LicenseName string `json:"name,omitempty"`

// 10.4: License Cross Reference
// Cardinality: conditional (optional, one or many) if license
//            is not on SPDX License List
LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

// 10.5: License Comment
// Cardinality:
optional, one
LicenseComment string `json:"comment,omitempty"`
}
```

procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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localtime.go, localtime_test.go:

Originals:
  https://raw.githubusercontent.com/googleapis/google-cloud-
go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil.go
  https://raw.githubusercontent.com/googleapis/google-cloud-
go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil_test.go
Changes:
  * Renamed files from civil* to localtime*.
  * Package changed from civil to toml.
  * 'Local' prefix added to all structs.
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1.4413 prometheus-client 1.20.5

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1.4418 golang-org-x-exp 0.0.0-20240808152545-0cdaa3abc0fa

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1.4419 collector-pdata 1.0.1

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spdx-license-ids

[![npm version](https://img.shields.io/npm/v/spdx-license-ids.svg)](https://www.npmjs.com/package/spdx-license-ids)

A list of [SPDX license](https://spdx.org/licenses/) identifiers

Installation

[Download JSON directly](https://raw.githubusercontent.com/jslicense/spdx-license-ids/main/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm/):

```
npm install spdx-license-ids
```

[Node.js](https://nodejs.org/) API

require('spdx-license-ids')

Type: `string[]`

All license IDs except for the currently deprecated ones.

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]

ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=> true

ids.includes('GPL-3.0'); //=> false
```

require('spdx-license-ids/deprecated')

Type: `string[]`

Deprecated license IDs.

```javascript
const deprecatedIds
 = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false

deprecatedIds.includes('GPL-3.0'); //=> true
```

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1.4422 open-telemetry-opentelemetry-collector-contrib 0.56.0

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1.4423 github.com/containerd/cgroups/v3 3.0.4

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1.4424 google-pprof 0.0.0-20240827171923-fa2c70bbbfe5

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1.4425 hashicorp-consul-api 1.30.0

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```
{{!
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}}

<div
 ...attributes
 class="consul-intention-permission-header-form"
>
 <FormGroup
   @name={{name}}
 as |group|>

   {{yield (hash
     submit=(action 'submit' changeset)
     reset=(action 'reset' changeset)
```

```
    isDirty=(and changeset.isValid changeset.isDirty)
    changeset=changeset
  )}}

  <fieldset>
    <div>
      <group.Element
        @name="HeaderType"
        @type="select"
      as |el|>
        <el.Label>Header type</el.Label>
        <PowerSelect
          @options={{headerTypes}}
          @selected={{headerType}}
          @onChange={{action 'change' 'HeaderType' changeset}} as |Type|>
            {{get headerLabels Type}}
        </PowerSelect>
      </group.Element>


      <group.Element
        @name="Name"
        @error={{changeset-get changeset 'error.Name'}}
      as |el|>
        <el.Label>Header name</el.Label>
        <el.Text

         @value={{changeset-get changeset 'Name'}}
          oninput={{action 'change' 'Name' changeset}}
        />
        <State @state={{el.state}} @matches="error">
          <el.Error>
            {{changeset-get changeset 'error.Name.validation'}}
          </el.Error>
        </State>
      </group.Element>

{{#if shouldShowValueField}}
      <group.Element
        @name="Value"
        @error={{changeset-get changeset 'error.Value'}}
      as |el|>
        <el.Label>Header {{lowercase (get headerLabels headerType)}}</el.Label>
        <el.Text
          @value={{changeset-get changeset 'Value'}}
          oninput={{action 'change' 'Value' changeset}}
        />
        <State @state={{el.state}} @matches="error">
```

```
          <el.Error>
            {{changeset-get changeset 'error.Value.validation'}}
          </el.Error>
        </State>
      </group.Element>
 {{/if}}

 {{#if shouldShowIgnoreCaseField}}
      <group.Element

        @name="IgnoreCase"
        @error={{changeset-get changeset 'error.IgnoreCase'}}
      as |el|>
        <el.Label>Ignore Case</el.Label>
        <el.Checkbox
          checked={{if IgnoreCase 'checked'}}
          onchange={{action 'change' 'IgnoreCase' changeset}}
        />
      </group.Element>
 {{/if}}

    </div>
  </fieldset>
 </FormGroup>
</div>
---
layout: api
page_title: License - Operator - HTTP API
description: |-
 The /operator/license endpoint allows for retrieving the Consul
 Enterprise License.
---

# License - Operator HTTP API

<EnterpriseAlert />

The licensing functionality described here is available only in
[Consul Enterprise](https://www.hashicorp.com/products/consul/) version 1.1.0 and later.

## Getting the Consul License

This endpoint gets information about the current license.

| Method | Path                | Produces          |
| ------ | ------------------- | ------------------ |
| `GET`  | `/operator/license` | `application/json` |
```

The table below shows this endpoint's support for
[blocking queries](/consul/api-docs/features/blocking),
[consistency modes](/consul/api-docs/features/consistency),
[agent caching](/consul/api-docs/features/caching), and
[required ACLs](/consul/api-docs/api-structure#authentication).

| Blocking Queries | Consistency Modes | Agent Caching | ACL Required |
| ----------------
 | ---------- | ---------- | ---------- |
| `NO` | `all` | `none` | `none` |

The corresponding CLI command is [`consul license get`](/consul/commands/license#get).

Query Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be retrieved.
 This will default to the datacenter of the agent serving the HTTP request.

Sample Request

```shell-session
$ curl \
   http://127.0.0.1:8500/v1/operator/license
```

Sample Response

```json
{
 "Valid": true,
 "License": {
   "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
   "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
   "installation_id": "*",
   "issue_time": "2018-05-21T20:03:35.911567355Z",
   "start_time": "2018-05-21T04:00:00Z",
   "expiration_time": "2019-05-22T03:59:59.999Z",
   "product": "consul",
   "flags": {
     "package": "premium"
   },
   "features": [
     "Automated Backups",
     "Automated Upgrades",

     "Enhanced Read Scalability",
     "Network Segments",
     "Redundancy Zone",
```

```
    "Advanced Network Federation"
  ],
  "temporary": false
 },
 "Warnings": []
}
```

Updating the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with
the ability to manage the cluster's license via the API.

This endpoint updates the Consul license and returns some of the
license contents as well as any warning messages regarding its validity.

Method	Path	Produces
`PUT`	`/operator/license`	`application/json`

The table below shows this endpoint's support for
[blocking queries](/consul/api-docs/features/blocking),
[consistency modes](/consul/api-docs/features/consistency),
[agent caching](/consul/api-docs/features/caching), and
[required ACLs](/consul/api-docs/api-structure#authentication).

Blocking Queries	Consistency Modes	Agent Caching	ACL Required
`NO`	`none`	`none`	`operator:write`

The corresponding CLI command is [`consul license put`](/consul/commands/license#put).

Query Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be updated.
 This will default to the datacenter of the agent serving the HTTP request.

Sample Payload

The payload is the raw license blob.

Sample Request

```shell-session
$ curl \
  --request PUT \
  --data @consul.license \
```

```
  http://127.0.0.1:8500/v1/operator/license
```

Sample Response

```json
{
 "Valid": true,
 "License": {
   "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
   "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
   "installation_id": "*",
   "issue_time": "2018-05-21T20:03:35.911567355Z",
   "start_time": "2018-05-21T04:00:00Z",
   "expiration_time": "2019-05-22T03:59:59.999Z",
   "product":
 "consul",
   "flags": {
     "package": "premium"
   },
   "features": [
     "Automated Backups",
     "Automated Upgrades",
     "Enhanced Read Scalability",
     "Network Segments",
     "Redundancy Zone",
     "Advanced Network Federation"
   ],
   "temporary": false
 },
 "Warnings": []
}
```

Resetting the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with
the ability to manage the cluster's license via the API.

This endpoint resets the Consul license to the license included in the Enterprise binary. If the included license is not valid, the replace will fail.

Method	Path	Produces
`DELETE`	`/operator/license`	`application/json`

The table below shows this endpoint's support for
[blocking queries](/consul/api-docs/features/blocking),

[consistency modes](/consul/api-docs/features/consistency),
[agent caching](/consul/api-docs/features/caching),
 and
[required ACLs](/consul/api-docs/api-structure#authentication).

Blocking Queries	Consistency Modes	Agent Caching	ACL Required
`NO`	`none`	`none`	`operator:write`

The corresponding CLI command is [`consul license reset`](/consul/commands/license#reset).

Query Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be updated.
 This will default to the datacenter of the agent serving the HTTP request.

Sample Request

```shell-session
$ curl \
  --request DELETE \
  http://127.0.0.1:8500/v1/operator/license
```

Sample Response

```json
{
 "Valid": true,
 "License": {
  "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
  "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
  "installation_id": "*",
  "issue_time": "2018-05-21T20:03:35.911567355Z",
  "start_time": "2018-05-21T04:00:00Z",
   "expiration_time": "2019-05-22T03:59:59.999Z",
  "product": "consul",
  "flags": {
    "package": "premium"
  },
  "features": [
    "Automated Backups",
    "Automated Upgrades",
    "Enhanced Read Scalability",
    "Network Segments",
    "Redundancy Zone",
    "Advanced Network Federation"
  ],
```

```
  "temporary": false
 },
 "Warnings": []
}
```
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*/

@import './skin';
@import './layout';
/**
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*/

.consul-intention-permission-form {
 h2 {
  padding-top: 1.4em;
  margin-top: 0.2em;
  margin-bottom: 0.6em;
 }
 .consul-intention-permission-header-form {
  margin-top: 10px;
 }
 fieldset:nth-child(2) > div,
 .consul-intention-permission-header-form fieldset > div {
  display: grid;
  grid-template-columns: repeat(auto-fit, minmax(160px, 1fr));
  grid-gap: 12px;
 }
 fieldset:nth-child(2) > div label:last-child {
  grid-column: span 2;
 }
 .ember-basic-dropdown-trigger {
  padding: 5px;
 }
 .checkbox-group {
  flex-direction: column;
 }
}
/**
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*/

@import './skin';

```
@import './layout';
.consul-intention-permission-list > ul > li {
 @extend %list-row-200;
}
.consul-intention-permission-list:not(.readonly) > ul > li {
 @extend %with-composite-row-intent;
}
.consul-intention-permission-list strong {
 @extend %pill-500;
}
.consul-intention-permission-list .intent-allow {
 @extend %pill-allow;
}
.consul-intention-permission-list .intent-deny {
 @extend %pill-deny;
}
```

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---
layout: docs
page_title: Enterprise License FAQ
description: >-
Review frequently asked questions (FAQs) about Consul Enterprise licenses to learn more about how licenses work, what happens when they expire, and how to get a trial license.

Frequently Asked Questions (FAQ)

This FAQ is for the license changes introduced in Consul Enterprise version 1.10.0.
Consul Enterprise automatically loads Consul licenses when the server agent starts.

Q: Can I get a quick summary of the Consul changes?

Starting with Consul Enterprise 1.10.0, the license enablement process is different.

HashiCorp Enterprise servers will no longer start without a license. Servers require licenses to be provided from either an environment variable or file.
If the license is missing, invalid, or expired, the server will immediately exit.
This check is part of the server boot-up process.

In previous versions of HashiCorp enterprise products, one server could distribute a license to other servers via the Raft protocol.
This will no longer work since each server must be able to find a valid license during the startup process.

Q: What are the upgrade requirements?

All customers on Consul Enterprise 1.8/1.9 must first upgrade their client and server agents to the latest patch release.
During the upgrade the license file must also be configured on client agents in an environment variable or file path, otherwise the Consul agents will fail to retrieve the license with a valid agent token.
The upgrade process varies if ACLs are enabled or disabled in the cluster.
Refer to the instructions on [upgrading to 1.10.x](/consul/docs/upgrading/instructions/upgrade-to-1-10-x) for details.

Q: Is there a tutorial available for the license configuration steps?

Please visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs).

Q: What resources are available?

The list below is a great starting point for learning more about the license
changes introduced in Consul Enterprise 1.10.0+ent.

- [Consul Enterprise Upgrade Documentation](/consul/docs/enterprise/upgrades)

- [Consul License Documentation](/consul/docs/enterprise/license/overview)

- [License configuration values documentation](/consul/docs/enterprise/license/overview#binaries-without-built-in-licenses)

- [Install a HashiCorp Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs)

Q: Do these changes impact all customers/licenses?

The license changes introduced in 1.10.0 only affect Consul Enterprise.
This impacts customers that have an enterprise binary (trial or non-trial licenses) downloaded from https://releases.hashicorp.com.
The license changes do not impact customers with the baked-in licensed binaries. In a later release of Consul Enterprise, baked-in binaries will be deprecated.

Q: What is the product behavior change introduced by the licensing changes?

Starting with Consul Enterprise 1.10.0,
a valid license is required on-disk (auto-loading) or as an environment variable for Consul Enterprise to successfully boot-up.
The in-storage license feature will not be supported starting with Consul Enterprise 1.10.0+ent. All Consul Enterprise clusters using 1.10.0+ent must ensure that there is a valid license on-disk (auto-loaded) or as an environment variable.

Q: What is the impact on trial licenses due to this change? ((#q-what-is-the-impact-on-evaluation-licenses-due-to-this-change))

Consul Enterprise 1.10.0+ server agents require a valid license to start.
The license can be provided on disk (auto-loaded) or as an environment variable.
There is no longer a 6-hour trial period in which Consul Enterprise server agents
can operate without a license.

Q: Is there a grace period when licenses expire?

YesConsul will continue normal operation and can be restarted after license *expiration* as defined in [`expiration_time`](/consul/api-docs/operator/license#getting-the-consul-license).

As
license expiration is approached or passed, Consul will issue warnings in the system logs.

Consul will only cease operation after license *termination*, which occurs 10 years
after license expiration and is defined in
[`termination_time`](/consul/api-docs/operator/license#getting-the-consul-license).

~> **Starting with Consul 1.14, and patch releases 1.13.3 and 1.12.6, Consul will support non-terminating licenses**:
Please contact your support representative for more details on non-terminating licenses.
An expired license will not allow Consul versions released after the expiration date to run.
It will not be possible to upgrade to a new version of Consul released after license expiration.

Q: Does this affect client agents?

There are upgrade requirements that affect Consul Enterprise clients.
Please review the [upgrade requirements](#q-what-are-the-upgrade-requirements) documentation.

Q: Does this affect snapshot agents?

Same behavior as Consul clients.
See answer for [Does this affect client agents?](#q-does-this-affect-client-agents)

Q: What is the behavior if the license is missing?

Consul server agents will detect the absence of the license and immediately exit.

Consul client agents will attempt to retrieve the license from servers if certain conditions are met:

- ACLs are enabled.
- An ACL token is provided to the client agent.
- The client agents configuration contains `retry_join` addresses.
- The retry join addresses are addresses of the Consul servers.

Consul snapshot agents will attempt to retrieve the license from servers if certain conditions are met: ACLs are enabled, a ACL token is provided to the client agent, the client agents configuration contains `retry_join` addresses, the retry join addresses are addresses of the Consul servers.

Q: Where can users get a trial license for Consul Enterprise?

Contact your [HashiCorp Support contact](https://support.hashicorp.com/) for a development license.

~> **Trial
install will cease operation 24 hours after 30-day license expiration**:
Trial licenses are not meant to be used in production.
This is unlike non-trial licenses which provide a 10 year grace period as described in
the answer for [Q: Is there a grace period when licenses expire?](#q-is-there-a-grace-period-when-licenses-expire).

Q: How can I renew a license?

Contact your organization's [HashiCorp account team](https://support.hashicorp.com/hc/en-us) for information on how to renew your organization's enterprise license.

Q: I'm an existing enterprise customer but don't have my license, how can I get it?

Contact your organization's [HashiCorp account team](https://support.hashicorp.com/hc/en-us) for information on how to renew your organization's enterprise license.

Q: Are the license files locked to a specific cluster?

The license files are not locked to a specific cluster or cluster node. The above changes apply to all nodes in a cluster.

Q: Will this
impact HCP Consul Dedicated?

This will not impact HCP Consul Dedicated.

Q: Does this need to happen every time a node restarts, or is this a one-time check?

Consul Enterprise binaries starting with 1.10.0+ent, will be subject to EULA check. Release 1.10.0+ent introduces the EULA check for trial licenses (non-trial licenses already go through EULA check during contractual agreement).

The agreement to a EULA happens only once (when the user gets their license), Consul Enterprise **will check for the presence of a valid license every time a node restarts**.

When a customer upgrades existing clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be auto-loaded.

When a customer deploys new clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be on-disk (auto-loaded).

Q: What are the scenarios that a customer must plan for because of these changes?

New
Consul cluster deployments using 1.10.0+ent will need to have a valid license on servers to successfully deploy. This valid license must be on-disk (auto-loaded) or as an environment variable.
Please see the [upgrade requirements](/consul/docs/enterprise/license/faq#q-what-are-the-upgrade-requirements).

Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?

VM

1. Run [`consul license get -signed`](/consul/commands/license#get) to extract the license from their running cluster. Store the license in a secure location on disk.

1. Set up the necessary configuration so that when Consul Enterprise reboots it will have access to the required license. This could be via the client agent configuration file or an environment variable.
1. Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license
 key.
1. Follow the Consul upgrade [documentation](/consul/docs/upgrading).

Kubernetes

NOTE: If you are not upgrading Consul or your Helm chart version then no action is required.

1. In order to use Consul Enterprise 1.10.0 or greater on Kubernetes you must use version 0.32.0 or greater of the Helm chart.
1. You should already have a Consul Enterprise license set as a Kubernetes secret. If you do not, refer to [how to obtain a copy of your license](/consul/docs/enterprise/license/faq#q-i-m-an-existing-enterprise-customer-but-don-t-have-my-license-how-can-i-get-it).
Once you have the license then create a Kubernetes secret containing the license as described in [Kubernetes - Consul Enterprise](/consul/docs/k8s/deployment-configurations/consul-enterprise).
1. Follow the [Kubernetes Upgrade Docs](/consul/docs/k8s/upgrade) to upgrade. No changes to your `values.yaml` file are needed to enable enterprise autoloading since this support is built in to consul-helm 0.32.0 and greater.

!>
 Warning: If you are upgrading the Helm chart but **not** upgrading the Consul version, you must set `server.enterpriseLicense.enableLicenseAutoload: false`. See [Kubernetes - Consul Enterprise](/consul/docs/k8s/deployment-configurations/consul-enterprise) for more details.

Q: What is the migration path for customers who want to migrate from their existing perpetually-licensed binaries to the license on disk flow?

VM

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's [customer success manager](https://support.hashicorp.com/hc/en-us) (CSM) for information on how to get your organization's enterprise license.
1. Store the license in a secure location on disk.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.
  Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs)
 for detailed steps on how to install the license key.
1. Follow the Consul upgrade [documentation](/consul/docs/upgrading).

Kubernetes

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's [customer success manager](https://support.hashicorp.com/hc/en-us) (CSM) for information on how to get your organization's enterprise license.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.

Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license key.
1. Proceed with the `helm` [upgrade instructions](/consul/docs/k8s/upgrade)

Q: Will Consul downgrades/rollbacks work?

When downgrading
to a version of Consul before 1.10.0+ent, customers will need to follow the previous process for applying an enterprise licenses to Consul Enterprise.

Q: Are there potential pitfalls when downgrading or upgrading Consul server instances?

~> Verify that you meet the [upgrade requirements](/consul/docs/enterprise/license/faq#q-what-are-the-upgrade-requirements).

Assume a scenario where there are three Consul server nodes:

- Node A: v1.9.5
- Node B: v1.10.0 [Leader]
- Node C: v1.9.5

The command `consul license put` is issued from Node A. This will result in an error due to how Consul routes calls to the server node, Node B in this example.
Because Node A is a follower when the call `consul license put` is issued, the call will be redirected to Node B (leader).
The `consul license put` operation will fail due to being removed from 1.10.0.
This is a scenario that could occur if a customer downgrades from 1.10.0+ and the Consul leadership has not transferred back over to a node
not running 1.10.0+.
This also has the potential of occurring when upgrading if scheduled license updates or autoscaling groups recoveries are in place.

Q: Any impacts to Consul Kubernetes?

If you are using a Consul Enterprise version prior to 1.10.0 and decide to upgrade the Helm chart to version 0.32.0 or newer, but not the Consul version.
You will need to add the following configuration.

```
server:
 enterpriseLicense:
   enableLicenseAutoload: false
```

/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

```
.consul-intention-permission-header-list {
 max-height: 200px;
 overflow: auto;
}
{{!
 Copyright (c) HashiCorp, Inc.
 SPDX-License-Identifier: BUSL-1.1
}}

{{#if (gt items.length 0)}}
<ListCollection
 class="consul-intention-permission-header-list"
 @items={{items}}
 @scroll="native"
 @cellHeight={{42}}
as |item|>
 <BlockSlot @name="details">
   <dl>
     <dt>
       <Tooltip>
         Header
       </Tooltip>
     </dt>
     <dd>
       {{item.Name}} {{route-match item}}
     </dd>
   </dl>
 </BlockSlot>
 <BlockSlot @name="actions" as |Actions|>
   <Actions as |Action|>
     <Action data-test-delete-action @onclick={{action ondelete item}} class="dangerous">
       <BlockSlot @name="label">
         Delete
       </BlockSlot>
       <BlockSlot @name="confirmation" as |Confirmation|>
         <Confirmation class="warning">
           <BlockSlot @name="header">
             Confirm delete
           </BlockSlot>
           <BlockSlot @name="body">
             <p>
               Are you sure you want to delete this header?

  </p>
           </BlockSlot>
           <BlockSlot @name="confirm" as |Confirm|>
             <Confirm>Delete</Confirm>
           </BlockSlot>
```

```
        </Confirmation>
      </BlockSlot>
    </Action>
  </Actions>
 </BlockSlot>
</ListCollection>
{{/if}}
{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
   "rules": {
     "policies": {
       "consul-intentions-layer7-0": {
         "permissions": [
           {
             "andRules": {
               "rules": [
                 {
                   "urlPath": {
                     "path": {
                       "exact": "/v1/secret"
                     }
                   }
                 },
                 {
                   "andRules": {
                     "rules": [
                       {
                         "metadata": {
                           "filter": "envoy.filters.http.jwt_authn",
                           "path": [
                             {
                               "key": "jwt_payload_auth0"
                             },
                             {
                               "key": "iss"
                             }
                           ],
                           "value": {
                             "stringMatch": {
                               "exact": "mytest.auth0-issuer"
                             }
                           }
                         }
                       },
                       {
                         "metadata": {
```

```
            "filter": "envoy.filters.http.jwt_authn",
            "path": [
              {
                "key": "jwt_payload_auth0"
              },
              {
                "key": "perms"
              },
              {
                "key": "role"
              }
            ],
            "value": {
              "stringMatch": {
                "exact": "admin"

 }
            }
          }
        }
      ]
    }
  }
 ]
}
},
{
 "andRules": {
  "rules": [
   {
    "urlPath": {
     "path": {
      "exact": "/v1/admin"
     }
    }
   },
   {
    "notRule": {
     "urlPath": {
      "path": {
       "exact": "/v1/secret"
      }
     }
    }
   }
  ]
 }
}
```

```
],
"principals": [
  {
    "andIds": {
      "ids": [
        {
          "authenticated": {
            "principalName": {

        "safeRegex": {
              "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
            }
          }
        }
        },
        {
          "andIds": {
            "ids": [
              {
                "metadata": {
                  "filter": "envoy.filters.http.jwt_authn",
                  "path": [
                    {
                      "key": "jwt_payload_okta"
                    },
                    {
                      "key": "iss"
                    }
                  ],
                  "value": {
                    "stringMatch": {
                      "exact": "mytest.okta-issuer"
                    }
                  }
                }
              },

              {
                "metadata": {
                  "filter": "envoy.filters.http.jwt_authn",
                  "path": [
                    {
                      "key": "jwt_payload_okta"
                    },
                    {
                      "key": "roles"
                    }
                  ],
```

```
                "value": {
                  "stringMatch": {
                    "exact": "testing"
                  }
                }
              }
            }
          ]
        }
      }
    ]
  }
}
}
{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
   "rules": {
     "policies": {
       "consul-intentions-layer7-0": {
         "permissions": [
           {
             "andRules": {
               "rules": [
                 {
                   "urlPath": {
                     "path": {
                       "prefix": "/v1"
                     }
                   }
                 },
                 {
                   "notRule": {
                     "urlPath": {
                       "path": {
                         "exact": "/v1/secret"
                       }
                     }
                   }
                 }
               ]
             }
```

```
    },
    {
      "andRules": {
        "rules": [
          {
            "andRules": {
              "rules": [
                {

            "urlPath": {
                  "path": {
                    "safeRegex": {
                      "regex": "/v[123]"
                    }
                  }
                }
              },
              {
                "header": {
                  "name": ":method",
                  "stringMatch": {
                    "safeRegex": {
                      "regex": "GET|HEAD|OPTIONS"
                    }
                  }
                }
              }
            ]
            }
          },
          {
            "notRule": {
              "urlPath": {
                "path": {
                  "exact": "/v1/secret"
                }
              }
            }
          },

  {
            "notRule": {
              "andRules": {
                "rules": [
                  {
                    "urlPath": {
                      "path": {
                        "exact": "/v1/admin"
```

```
                    }
                  }
                },
                {
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                    "name": ":method",
                    "stringMatch": {
                      "safeRegex": {
                        "regex": "GET"
                      }
                    }
                  }
                }
              ]
            }
          }
        }
      ]
    }
  },
  {
    "andRules": {
      "rules": [
        {

"andRules": {
                "rules": [
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                    "header": {
                      "name": "x-foo",
                      "presentMatch": true
                    }
                  },
                  {
                    "header": {
                      "name": "x-bar",
                      "stringMatch": {
                        "exact": "xyz"
                      }
                    }
                  },
                  {
                    "header": {
                      "name": "x-dib",
                      "stringMatch": {
                        "prefix": "gaz"
                      }
                    }
```

```
        },
        {
          "header": {
            "name": "x-gir",
            "stringMatch": {

"suffix": "zim"
            }
          }
        },
        {
          "header": {
            "name": "x-zim",
            "stringMatch": {
              "safeRegex": {
                "regex": "gi[rR]"
              }
            }
          }
        },
        {
          "header": {
            "invertMatch": true,
            "name": "z-foo",
            "presentMatch": true
          }
        },
        {
          "header": {
            "invertMatch": true,
            "name": "z-bar",
            "stringMatch": {
              "exact": "xyz"

      }
          }
        },
        {
          "header": {
            "invertMatch": true,
            "name": "z-dib",
            "stringMatch": {
              "prefix": "gaz"
            }
          }
        },
        {
          "header": {
```

```
                "invertMatch": true,
                "name": "z-gir",
                "stringMatch": {
                  "suffix": "zim"
                }
              }
            },
            {
              "header": {
                "invertMatch": true,
                "name": "z-zim",
                "stringMatch": {
                  "safeRegex": {

             "regex": "gi[rR]"
                  }
                }
              }
            }
          ]
        }
      },
      {
        "notRule": {
          "urlPath": {
            "path": {
              "exact": "/v1/secret"
            }
          }
        }
      },
      {
        "notRule": {
          "header": {
            "name": "x-baz",
            "presentMatch": true
          }
        }
      }
    ]
  }
}
],
"principals": [
  {
    "authenticated": {
      "principalName": {
        "safeRegex": {
```

```
                "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
              }
            }
          }
        }
      ]
    }
  }
 }
}
{
 "name": "envoy.filters.network.rbac",
 "typedConfig": {
  "@type": "type.googleapis.com/envoy.extensions.filters.network.rbac.v3.RBAC",
  "rules": {},
  "statPrefix": "connect_authz"
 }
}
{
 "Valid": true,
 "License": {
  "license_id": "${fake.random.uuid()}",
  "customer_id": "${fake.random.uuid()}",
  "installation_id": "*",
  "issue_time": "2021-01-13T15:25:19.052900132Z",
  "start_time": "2021-01-13T00:00:00Z",
  "expiration_time": "${env('CONSUL_LICENSE_EXPIRATION', '2022-05-02T23:59:59.999Z')}",
  "termination_time": "${env('CONSUL_LICENSE_TERMINATION', '2022-01-13T23:59:59.999Z')}",
  "product": "consul",
  "flags": {
    "modules": [
      "global-visibility-routing-scale",
      "governance-policy"
    ]
  },
  "modules": [
    "Global Visibility, Routing and Scale",
    "Governance and Policy"
  ],
  "features": [
    "Automated Backups",
    "Automated Upgrades",
    "Enhanced Read Scalability",
    "Network Segments",
    "Redundancy Zone",
    "Advanced Network Federation",
    "Namespaces",
```

```
    "SSO",
    "Audit Logging",
    "Admin Partitions"
  ]
 },
 "Warnings": [
 ]
}
{
 "name": "envoy.filters.http.jwt_authn",
 "typedConfig": {
  "@type": "type.googleapis.com/envoy.extensions.filters.http.jwt_authn.v3.JwtAuthentication",
  "providers": {
    "okta": {
      "issuer": "test-issuer",
      "payloadInMetadata": "jwt_payload_okta",
      "remoteJwks": {
        "asyncFetch": {
          "fastListener": true
        },
        "httpUri": {
          "cluster": "jwks_cluster_okta",
          "timeout": "1s",
          "uri": "https://example-okta.com/.well-known/jwks.json"
        }
      }
    }
  },
  "rules": [
    {
      "match": {
        "prefix": "/"
      },
      "requires": {
        "requiresAny": {
          "requirements": [
            {
              "providerName": "okta"
            },
            {
              "allowMissingOrFailed": {}
            }
          ]
        }
      }
    }
  ]
 }
```

```
}
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

@import './skin';
@import './layout';
.consul-intention-permission-header-list {
 > ul > li {
   @extend %list-row-200;
 }
}
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{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
   "rules": {
     "policies": {
       "consul-intentions-layer7-0": {
         "permissions": [
           {
             "andRules": {
               "rules": [
                 {
                   "andRules": {
                     "rules": [
                       {
                         "urlPath": {
                           "path": {
                             "prefix": "/v1"
                           }
                         }
                       },
                       {
                         "header": {
                           "name": "x-foo",
                           "presentMatch": true
```

```
            }
          }
        ]
      }
    },
    {
      "notRule": {
        "andRules": {

        "rules": [
          {
            "urlPath": {
              "path": {
                "exact": "/v1/secret"
              }
            }
          },
          {
            "header": {
              "name": "x-baz",
              "presentMatch": true
            }
          },
          {
            "header": {
              "name": "x-bar",
              "presentMatch": true
            }
          }
        ]
      }
    }
  },
  {
    "notRule": {
      "andRules": {
        "rules": [
          {

"urlPath": {
              "path": {
                "exact": "/v1/admin"
              }
            }
          },
          {
            "header": {
              "name": "x-baz",
```

```
                    "presentMatch": true
                  }
                },
                {
                  "header": {
                    "name": "x-bar",
                    "presentMatch": true
                  }
                }
              ]
            }
          }
        }
      ]
    }
  }
  ],
  "principals": [
    {
      "authenticated": {
        "principalName": {
          "safeRegex": {
            "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
          }
        }
      }
    }
  ]
}
}
}
}
# License

```hbs preview-template
<figure>
 <figcaption>URI: <code>/:partition/:nspace/:dc/license</code></figcaption>
 <DataSource
   @src={{
     uri '/${partition}/${nspace}/${dc}/license'
     (hash
       partition='partition'
       nspace='ns'
       dc='dc-1'
     )
   }}
   @onchange={{action (mut data) value="data"}}
```
```

```
 />
 <pre><code>{{json-stringify data null 4}}</code></pre>
</figure>
```
---
page_title: Automated license utilization reporting
description: >-
 Learn what data HashiCorp collects to meter Enterprise license utilization. Enable or disable reporting. Review sample payloads and logs.

Automated license utilization reporting

This topic describes how to enable automated license utilization reporting in Consul Enterprise. This feature automatically sends license utilization data to HashiCorp so that you do not have to manually collect and report it. It also enables you to review your license usage with the monitoring solution you already use, such as Splunk and Datadog, as you optimize and manage your deployments.

Introduction

You can use automated license utilization report to understand how much additional networking infrastructure you can deploy under your current contract. This feature helps you protect against overutilization and budget for predicted consumption.

Automated reporting shares the minimum data required to validate license utilization
 as defined in our contracts. This data mostly consists of computed metrics, and it will never contain Personal Identifiable Information (PII) or other sensitive information. Automated reporting shares the data with HashiCorp using a secure unidirectional HTTPS API and makes an auditable record in the product logs each time it submits a report. This process is GDPR-compliant.

Requirements

Automated license utilization reporting does not support _air-gapped installations_, which are systems with no network interfaces.

The following versions of Consul Enterprise support automated license utilization reporting:

- Consul Enterprise v1.16.0 and newer.
- Patch releases of Consul Enterprise v1.15.4 and newer.
- Patch releases of Consul Enterprise v1.14.8 and newer.
- Patch releases of Consul Enterprise v1.13.9 and newer.

Download a supported release from the [Consul Versions](https://releases.hashicorp.com/consul/) page.

Enable automated reporting

Before you enable automated reporting,

make sure that outbound network traffic is configured correctly and upgrade your enterprise product to a version that supports it. If your installation is air-gapped or network settings are not in place, automated reporting will not work.

To enable automated reporting, complete the following steps:

1. [Allow outbound HTTPS traffic on port 443](#allow-outbound-https-traffic)
1. [Check product logs](#check-product-logs)

Allow outbound HTTPS traffic on port 443

Make sure that your network allows HTTPS egress on port 443 from `https://reporting.hashicorp.services` by adding the following IP addresses to your allow-list:

- `100.20.70.12`
- `35.166.5.222`
- `23.95.85.111`
- `44.215.244.1`

Check product logs

Automatic license utilization reporting starts sending data within roughly 24 hours. Check the product logs for records that the data sent successfully.

<CodeBlockConfig hideClipboard>

```
[DEBUG] beginning snapshot export
[DEBUG] creating payload
[DEBUG] marshalling
 payload to json
[DEBUG] generating authentication headers
[DEBUG] creating request
[DEBUG] sending request
[DEBUG] performing request: method=POST url=https://census.license.hashicorp.services
[DEBUG] recording audit record
[INFO]  reporting: Report sent: auditRecord={"payload":{"payload_version":"1","license_id":"d2cdd857-4202-5a45-70a6-e4b531050c34","product":"consul","product_version":"1.16.0-dev+ent","export_timestamp":"2023-05-26T20:09:13.753921087Z","snapshots":[{"snapshot_version":1,"snapshot_id":"0001J724F90F4XWQDSAA76ZQWA","process_id":"01H1CTJPC1S8H7Q45MKTJ689ZW","timestamp":"2023-05-26T20:09:13.753513962Z","schema_version":"1.0.0","service":"consul","metrics":{"consul.billable.nodes":{"key":"consul.billable.nodes","kind":"counter","mode":"write","value":2},"consul.billable.service_instances":{"key":"consul.billable.service_instances","kind":"counter","mode":"write","value":2}}}],"metadata":{}}}
[DEBUG] completed recording audit record
[DEBUG] export finished successfully"
```

</CodeBlockConfig>

If
 your installation is air-gapped or your network does not allow the correct egress, the logs show an error.

<CodeBlockConfig hideClipboard>

```
[DEBUG] reporting: beginning snapshot export
[DEBUG] reporting: creating payload
[DEBUG] reporting: marshalling payload to json
[DEBUG] reporting: generating authentication headers
[DEBUG] reporting: creating request
[DEBUG] reporting: sending request
[DEBUG] reporting: performing request: method=POST url=https://census.license.hashicorp.services
[DEBUG] reporting: error status code received: statusCode=403
```

</CodeBlockConfig>

In this case, reconfigure your network to allow egress and check the logs again in roughly 24 hours to confirm that automated reporting works correctly.

Opt out

If your installation is air-gapped or you want to manually collect and report on the same license utilization metrics, you can opt out of automated reporting.

Manually reporting these metrics can be time consuming. Opting
 out of automated reporting does not mean that you also opt out from sending license utilization metrics. Customers who opt out of automated reporting are still required to manually collect and send license utilization metrics to HashiCorp.

If you are considering opting out because you are worried about the data, we strongly recommend that you review the [example payloads](#example-payloads) before opting out. If you have concerns with any of the automatically reported data, raise these concerns with your account manager.

There are two methods for opting out of automated reporting:

- HCL configuration (recommended)
- Environment variable (requires restart)

We recommend opting out in your product's configuration file because it does not require a system restart. Add the following block to your `configuration.hcl` or `configuration.json` file.

```hcl
reporting {
 license {
  enabled = false
```

```
 }
}
```

When opting out using an environment variable, the system provides a startup message
 confirming that you have disabled automated reporting. Set the following environment variable to disable automated reporting:

<CodeBlockConfig>

```shell-session
$ export OPTOUT_LICENSE_REPORTING=true
```

</CodeBlockConfig>

After you set the environment variable, restart your system to complete the process for opting out.

```shell-session
$ consul reload
```

Check your product logs roughly 24 hours after opting out to make sure that the system is not trying to send reports. Keep in mind that if your configuration file and environment variable differ, the environment variable setting takes precedence.

Example payloads

HashiCorp collects the following utilization data as JSON payloads:
`exporter_version` - The version of the licensing exporter

<CodeBlockConfig hideClipboard>

```json
{
 "payload": {
   "payload_version": "1",
   "license_id": "d2cdd857-4202-5a45-70a6-e4b531050c34",
   "product": "consul",
   "product_version": "1.16.0-dev+ent",
   "export_timestamp":
 "2023-05-26T20:09:13.753921087Z",
   "snapshots": [
     {
       "snapshot_version": 1,
       "snapshot_id": "0001J724F90F4XWQDSAA76ZQWA",
       "process_id": "01H1CTJPC1S8H7Q45MKTJ689ZW",
```

```
      "timestamp": "2023-05-26T20:09:13.753513962Z",
      "schema_version": "1.0.0",
      "service": "consul",
      "metrics": {
        "consul.billable.nodes": {
          "key": "consul.billable.nodes",
          "kind": "counter",
          "mode": "write",
          "value": 2
        },
        "consul.billable.service_instances": {
          "key": "consul.billable.service_instances",
          "kind": "counter",
          "mode": "write",
          "value": 2
        }
      }
    }
  ],
  "metadata": {}
 }
}
```


</CodeBlockConfig>
---
layout: docs
page_title: Storing the Enterprise License in Vault
description: >-
 Configuring the Consul Helm chart to use an enterprise license stored in Vault.

Storing the Enterprise License in Vault

This topic describes how to configure the Consul Helm chart to use an enterprise license stored in Vault.
Overview
Complete the steps outlined in the [Data Integration](/consul/docs/k8s/deployment-configurations/vault/data-integration) section to use an enterprise license stored in Vault.

Complete the following steps once:
1. Store the secret in Vault.
1. Create a Vault policy that authorizes the desired level of access to the secret.

Repeat the following steps for each datacenter in the cluster:
1. Create Vault Kubernetes auth roles that link the policy to each Consul on Kubernetes service account that requires access.
1. Update the Consul on Kubernetes helm chart.

Prerequisites

Prior to setting up the data integration between Vault and Consul on Kubernetes,
 you will need to have:

1. Read and completed the steps in the [Systems Integration](/consul/docs/k8s/deployment-configurations/vault/systems-integration) section of [Vault as a Secrets Backend](/consul/docs/k8s/deployment-configurations/vault).
2. Read the [Data Integration Overview](/consul/docs/k8s/deployment-configurations/vault/data-integration) section of [Vault as a Secrets Backend](/consul/docs/k8s/deployment-configurations/vault).

Store the Secret in Vault

First, store the enterprise license in Vault:

```shell-session
$ vault kv put consul-kv/secret/enterpriselicense key="<enterprise license>"
```

Create Vault policy

Next, you will need to create a policy that allows read access to this secret.

The path to the secret referenced in the `path` resource is the same value that you will configure in the `global.enterpriseLicense.secretName` Helm configuration (refer to [Update Consul on Kubernetes Helm chart](#update-consul-on-kubernetes-helm-chart)).

<CodeBlockConfig
 filename="license-policy.hcl">

```HCL
path "consul-kv/data/secret/enterpriselicense" {
 capabilities = ["read"]
}
```

</CodeBlockConfig>

Apply the Vault policy by issuing the `vault policy write` CLI command:

```shell-session
$ vault policy write license-policy license-policy.hcl
```

Create Vault Authorization Roles for Consul

Next, you will create Kubernetes auth roles for the Consul server and client:

```shell-session
$ vault write auth/kubernetes/role/consul-server \
```

```
  bound_service_account_names=<Consul server service account> \
  bound_service_account_namespaces=<Consul installation namespace> \
  policies=license-policy \
  ttl=1h
```

```shell-session
$ vault write auth/kubernetes/role/consul-client \
  bound_service_account_names=<Consul client service account> \
  bound_service_account_namespaces=<Consul installation namespace> \
  policies=license-policy \
  ttl=1h
```

To find out the service account names of the Consul server and client,
you can
 run the following `helm template` commands with your Consul on Kubernetes values file:

- Generate Consul server service account name
 ```shell-session
 $ helm template --release-name ${RELEASE_NAME} -s templates/server-serviceaccount.yaml hashicorp/consul -f values.yaml
 ```

- Generate Consul client service account name
 ```shell-session
 $ helm template --release-name ${RELEASE_NAME} -s templates/client-serviceaccount.yaml hashicorp/consul -f values.yaml
 ```

Update Consul on Kubernetes Helm chart.

Now that you have configured Vault, you can configure the Consul Helm chart to
use the enterprise enterprise license in Vault:

<CodeBlockConfig filename="values.yaml">

```yaml
global:
 image: hashicorp/consul-enterprise:1.12.0-ent
 secretsBackend:
   vault:
     enabled: true
     consulServerRole: consul-server
     consulClientRole: consul-client
 enterpriseLicense:
   secretName: consul-kv/data/secret/enterpriselicense
   secretKey: key
```

```

</CodeBlockConfig>

Note
 that `global.enterpriseLicense.secretName` is the path of the secret in Vault.
This should be the same path as the one you included in your Vault policy.
`global.enterpriseLicense.secretKey` is the key inside the secret data. This should be the same
as the key you passed when creating the enterprise license secret in Vault.
{{!
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}}

<Hds::Alert @type='inline' @color={{or @type "neutral"}} class='mb-2 mt-2 consul-intention-notice-custom-resource' as |A|>
 <A.Title>Intention Custom Resource</A.Title>
 <A.Description>Some of your intentions are being managed through an Intention Custom Resource in your Kubernetes cluster. Those managed intentions will be view only in the UI. Any intentions created in the UI will work but will not be synced to the Custom Resource Definition (CRD) datastore.</A.Description>
 <A.Link::Standalone @href="{{env 'CONSUL_DOCS_URL'}}/k8s/crds"
                @text='Learn more about CRDs'
                @icon="docs-link"
                @iconPosition="trailing"
                @size="small" />
</Hds::Alert>
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

.consul-intention-permission-form {
 h2 {
   border-top: 1px solid var(--token-color-foreground-action);
   @extend %display-400-semibold;
 }
 button.type-submit {
   @extend %frame-blue-300;
 }
 button.type-submit:hover:not(:disabled),
 button.type-submit:focus:not(:disabled) {
   @extend %frame-blue-500;
 }
 button.type-submit:disabled {
   @extend %frame-blue-200;
 }
}
```

```
.consul-intention-view {
 h2 {
   @extend %display-400-semibold;
 }
}
```

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---
layout: docs
page_title: Consul-Terraform-Sync Enterprise License
description: >-
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</EnterpriseAlert>

CTS Enterprise binaries require a [Consul Enterprise license](/consul/docs/enterprise/license/overview) to run. There is no CTS Enterprise specific license. As a result, CTS Enterprise's licensing is very similar to Consul Enterprise.

All CTS Enterprise features are available with a valid Consul Enterprise license, regardless of your Consul Enterprise packaging or pricing model.

To get a trial license for CTS, you can sign-up for the [trial license for Consul Enterprise](/consul/docs/enterprise/license/faq#q-where-can-users-get-a-trial-license-for-consul-enterprise).

Automatic License Retrieval
CTS automatically retrieves a license from Consul on startup and then attempts to retrieve a new license once a day. If the current license is reaching its expiration date, CTS attempts to retrieve a license with increased frequency, as defined by the [License Expiration Date Handling](/consul/docs/nia/enterprise/license#license-expiration-handling).

~> Enabling automatic license retrieval is recommended when using HCP Consul Dedicated, as HCP Consul Dedicated licenses expire more frequently than Consul Enterprise licenses. Without auto-retrieval enabled, you have to restart CTS every time you load a new license.

Setting the License Manually

If a license needs to be manually set, choose one of the following methods (in order of precedence) to set the license:

1. Set the `CONSUL_LICENSE` environment variable to the license string.

  ```shell-session
  export CONSUL_LICENSE=<LICENSE_VALUE>
  ```

1. Set the `CONSUL_LICENSE_PATH` environment variable to the path of the file containing the license.

  ```shell-session
  export CONSUL_LICENSE_PATH=<PATH>/<TO>/<FILE>
  ```

```

1. To
 point to the file containing the license, in the configuration file, configure the
[`license`](/consul/docs/nia/configuration#license) path option.

  ```hcl
  license {
    path = "<PATH>/<TO>/<FILE>"
  }
  ```

1. To point to the file containing the license, in the configuration file, configure the
[`license_path`](/consul/docs/nia/configuration#license_path) option i. **Deprecated in CTS 0.6.0 and will be removed in a future release. Use [license block](/consul/docs/nia/configuration#license) instead.**

  ```hcl
  license_path = "<PATH>/<TO>/<FILE>"
  ```

~> **Note**: the [options to set the license and the order of
precedence](/consul/docs/enterprise/license/overview#binaries-without-built-in-licenses) are the same as Consul Enterprise server agents.
Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license key.

Updating the License Manually
To update the license
 when it expires or is near the expiration date and automatic license retrieval is disabled:

1. Update the license environment variable or configuration with the new license value or path to the new license file
1. Stop and restart CTS Enterprise

Once CTS Enterprise starts again, it will pick up the new license and run the tasks with any changes that may have occurred between the stop and restart period.

License Expiration Handling

Licenses have an expiration date and a termination date. The termination date is a time at or after the license expires. CTS Enterprise will cease to function once the termination date has passed.

The time between the expiration and termination dates is a grace period. Grace periods are generally 24-hours, but you should refer to your license agreement for complete terms of your grace period.

When approaching expiration and termination, by default, CTS Enterprise will attempt to retrieve a new license. If auto-retrieval is disabled, CTS Enterprise will
  ```

provide notifications in the system logs:

Time period	Behavior - auto-retrieval enabled (default)	Behavior - auto-retrieval disabled
30 days before expiration	License retrieval attempt every 24-hours	Warning-level log every 24-hours
7 days before expiration	License retrieval attempt every 1 hour	Warning-level log every 1 hour
1 day before expiration	License retrieval attempt every 5 minutes	Warning-level log every 5 minutes
1 hour before expiration	License retrieval attempt every 1 minute	Warning-level log every 1 minute
At or after expiration (before termination)	License retrieval attempt every 1 minute	Error-level log every 1 minute
At or after termination	Error-level log and exit	Error-level log and exit

~> **Note**: Notification frequency and [grace period](/consul/docs/enterprise/license/faq#q-is-there-a-grace-period-when-licenses-expire) behavior is the same as Consul Enterprise.

```
{{!
 Copyright (c) HashiCorp, Inc.
 SPDX-License-Identifier: BUSL-1.1
}}

{{#if (gt items.length 0)}}
<ListCollection
 class="consul-intention-permission-list{{if (not onclick) ' readonly'}}"
 @scroll="native"
 @items={{items}}
 @partial={{5}}
as |item|>
 <BlockSlot @name="details">
   <div onclick={{action (optional onclick) item}}>
     <strong class={{concat 'intent-' item.Action}}>{{capitalize item.Action}}</strong>
{{#if (gt item.HTTP.Methods.length 0)}}
       <dl class="permission-methods">
         <dt>
           <Tooltip>
             Methods
           </Tooltip>
         </dt>
         <dd>
{{#each item.HTTP.Methods as |item|}}
           {{item}}
{{/each}}
         </dd>
       </dl>
{{/if}}
{{#if item.HTTP.Path}}
```

```
      <dl class="permission-path">
        <dt>
          <Tooltip>
            {{item.HTTP.PathType}}
          </Tooltip>
        </dt>
        <dd>
          {{item.HTTP.Path}}
        </dd>
      </dl>
{{/if}}
{{#each item.HTTP.Header
 as |item|}}
      <dl class="permission-header">
        <dt>
          <Tooltip>
            Header
          </Tooltip>
        </dt>
        <dd>
          {{item.Name}} {{route-match item}}
        </dd>
      </dl>
{{/each}}
  </div>
 </BlockSlot>
{{#if onclick}}
 <BlockSlot @name="actions" as |Actions|>
  <Actions as |Action|>
    <Action data-test-edit-action @onclick={{action (optional onclick) item}} @close={{true}}>
      <BlockSlot @name="label">
        Edit
      </BlockSlot>
    </Action>
    <Action data-test-delete-action @onclick={{action ondelete item}} class="dangerous">
      <BlockSlot @name="label">
        Delete
      </BlockSlot>
      <BlockSlot @name="confirmation" as |Confirmation|>
        <Confirmation class="warning">
          <BlockSlot @name="header">
            Confirm delete
          </BlockSlot>
          <BlockSlot @name="body">
            <p>
              Are you sure you
 want to delete this permission?
            </p>
```

```
          </BlockSlot>
          <BlockSlot @name="confirm" as |Confirm|>
            <Confirm>Delete</Confirm>
          </BlockSlot>
        </Confirmation>
      </BlockSlot>
    </Action>
  </Actions>
 </BlockSlot>
{{/if}}
</ListCollection>
{{/if}}
/*!
* clipboard.js v2.0.11
* https://clipboardjs.com/
*
* Licensed MIT  Zeno Rocha
*/

/*!
* focus-trap 6.9.4
* @license MIT, https://github.com/focus-trap/focus-trap/blob/master/LICENSE
*/

/*! ******************************************************************************
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REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.
******************************************************************************
 */

/**
* @license
* Copyright 2017 Google LLC
* SPDX-License-Identifier: BSD-3-Clause
*/

/**
* @license
```

* Copyright 2019 Google LLC
* SPDX-License-Identifier: BSD-3-Clause
*/
---
layout: commands
page_title: 'Commands: License'
description: >
 The license command provides a datacenter-level view of the Consul
 Enterprise license.

Consul License

Command: `consul license`

<EnterpriseAlert />

The `license` command provides a list of all datacenters that use the Consul Enterprise license applied to the current datacenter.

~> **Warning**: Consul 1.10.0 removed the ability to set and reset the license using the CLI.
See the [licensing documentation](/consul/docs/enterprise/license/overview) for more information about
Consul Enterprise license management.

If ACLs are enabled then a token with operator privileges may be required in
order to use this command. Requests are forwarded internally to the leader
if required, so this can be run from any Consul node in a cluster. See the
[ACL Guide](/consul/tutorials/security/access-control-setup-production) for more information.

```text
Usage: consul license <subcommand> [options] [args]

 This command has subcommands
 for managing the Consul Enterprise license
 Here are some simple examples, and more detailed examples are
 available in the subcommands or the documentation.

 Install a new license from a file:

    $ consul license put @consul.license

 Install a new license from stdin:

    $ consul license put -

 Install a new license from a string:

    $ consul license put "<license blob>"
```

Retrieve the current license:

$ consul license get

Inspect a license:

$ consul license inspect "<path to license file>"

Reset the current license:

$ consul license reset

For more examples, ask for subcommand help or view the documentation.

Subcommands:
  get Get the active license
  inspect Inspect a signed license
  put Puts a new license in the datacenter
  reset Resets the license in the datacenter

```

## inspect

This command inspects and validates a license. Just like a Consul agent it
can load the license from a file
 on disk or from the `CONSUL_LICENSE` and
`CONSUL_LICENSE_PATH` environment variables.

Usage: `consul license inspect [<options>] [<license file>]`

Inspect a license contained in a file:

```
$ consul license inspect consul.hclic
```

Inspect a license loaded from the environment:

```
$ consul license inspect
```

This will look at the CONSUL_LICENSE environment variable first
and if not present then we will look for the file specified
by the CONSUL_LICENSE_PATH environment variable.
```

The output looks like this:

```
Source: /consul/config/consul.hclic (path from the CONSUL_LICENSE_PATH environment variable)
Product: consul
License ID: 6089174b-a713-74cf-4c8d-856b86f1ce50
Customer ID: 7c020610-60a2-7ccb-c210-20d899e5f3b4
Installation ID: *
Issue Time: 2020-09-14 19:45:56.212195875 +0000 UTC
Start Time: 2020-09-14 00:00:00 +0000 UTC
Expiration Time: 2021-09-14 23:59:59.999 +0000 UTC
Termination Time: 2021-09-14 23:59:59.999 +0000 UTC
Modules:
      Global Visibility, Routing and Scale
       Governance and Policy
Features:
      Automated Backups
      Automated Upgrades
      Enhanced Read Scalability
      Network Segments
      Redundancy Zone
      Advanced Network Federation
      Namespaces
      SSO
      Audit Logging
      Admin Partitions

License is valid

```

put

-> **Deprecated** The ability to manage the cluster's license via the CLI
was removed in Consul 1.10. While the CLI command still exists it will
always return an error. This command will be fully removed in a future release.

Corresponding HTTP API Endpoint: [\[PUT\] /v1/operator/license](/consul/api-docs/operator/license#updating-the-consul-license)

This command sets the Consul Enterprise license.

The table below shows this command's [required ACLs](/consul/api-docs/api-structure#authentication). Configuration of
[blocking queries](/consul/api-docs/features/blocking) and [agent caching](/consul/api-docs/features/caching) are not supported from commands, but may be
 from the corresponding HTTP endpoint.

ACL Required
`operator:write`

Usage: `consul license put [options] LICENSE`

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
    Automated Backups
    Automated Upgrades
    Enhanced Read Scalability
    Network Segments
    Redundancy Zone
    Advanced Network Federation
```

API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

get

Corresponding HTTP API Endpoint: [\[GET\] /v1/operator/license](/consul/api-docs/operator/license#getting-the-consul-license)

This command gets the Consul Enterprise license. If the leader hasn't been updated with the newer license, the followers
will display the outdated license in their GET output.

The table below
shows this command's [required ACLs](/consul/api-docs/api-structure#authentication). Configuration of [blocking queries](/consul/api-docs/features/blocking) and [agent caching](/consul/api-docs/features/caching) are not supported from commands, but may be from the corresponding HTTP endpoint.

ACL Required
`none`

Usage: `consul license get [options]`

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
	Automated Backups
	Automated Upgrades
	Enhanced Read Scalability
	Network Segments
	Redundancy Zone
	Advanced Network Federation
```

API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

reset

-> **Deprecated** The ability to manage the cluster's license via the CLI
was
 removed in Consul 1.10. While the CLI command still exists it will
always return an error. This command will be fully removed in a future release.

Corresponding HTTP API Endpoint: [\[DELETE\] /v1/operator/license](/consul/api-docs/operator/license#resetting-the-consul-license)

Resets license for the datacenter to the one builtin in Consul binary, if it is still valid.
If the builtin license is invalid, the current one stays active.

The table below shows this command's [required ACLs](/consul/api-docs/api-structure#authentication). Configuration of
[blocking queries](/consul/api-docs/features/blocking) and [agent caching](/consul/api-docs/features/caching)
are not supported from commands, but may be from the corresponding HTTP endpoint.

ACL Required
`operator:write`

Usage: `consul license reset [options]`

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires
 At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
	Automated Backups
	Automated Upgrades
	Enhanced Read Scalability
	Network Segments
	Redundancy Zone
	Advanced Network Federation
```

API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

.agentless-node-notice .hds-alert__title {
 display: flex;
 justify-content: space-between;
}
Mozilla Public License 2.0 (MPLv2.0)
{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
   "rules": {
     "policies": {
       "consul-intentions-layer7-0": {
         "permissions": [
           {
             "andRules": {
               "rules": [
                 {

```
  "andRules": {
    "rules": [
      {
        "urlPath": {
          "path": {
            "prefix": "/v1"
          }
        }
      },
      {
        "header": {
          "name": "x-foo",
          "presentMatch": true
        }
      }
    ]
  }
},
{
  "notRule": {
    "andRules": {

    "rules": [
        {
          "urlPath": {
            "path": {
              "exact": "/v1/secret"
            }
          }
        },
        {
          "header": {
            "name": "x-baz",
            "presentMatch": true
          }
        },
        {
          "header": {
            "name": "x-bar",
            "presentMatch": true
          }
        }
      ]
    }
  }
},
{
  "notRule": {
```

```
            "andRules": {
              "rules": [
                {

    "urlPath": {
                  "path": {
                    "exact": "/v1/admin"
                  }
                }
              },
              {
                "header": {
                  "name": "x-baz",
                  "presentMatch": true
                }
              },
              {
                "header": {
                  "name": "x-bar",
                  "presentMatch": true
                }
              }
            ]
          }
        }
      }
    ]
  }
},
{
  "andRules": {
    "rules": [
      {
        "andRules": {
          "rules": [
            {

"urlPath": {
                "path": {
                  "prefix": "/v2"
                }
              }
            },
            {
              "header": {
                "name": "x-foo",
                "presentMatch": true
              }
```

```
                }
              ]
            }
          },
          {
            "notRule": {
              "andRules": {
                "rules": [
                  {
                    "urlPath": {
                      "path": {
                        "exact": "/v2/secret"
                      }
                    }
                  },
                  {
                    "header": {
                      "name": "x-baz",
                      "presentMatch":
true
                    }
                  },
                  {
                    "header": {
                      "name": "x-bar",
                      "presentMatch": true
                    }
                  }
                ]
              }
            }
          },
          {
            "notRule": {
              "andRules": {
                "rules": [
                  {
                    "urlPath": {
                      "path": {
                        "exact": "/v2/admin"
                      }
                    }
                  },
                  {
                    "header": {
                      "name": "x-baz",
                      "presentMatch": true
                    }
```

```
                    },

            {
                      "header": {
                        "name": "x-bar",
                        "presentMatch": true
                      }
                    }
                  ]
                }
              }
            }
          ]
        }
      }
      ],
      "principals": [
        {
          "authenticated": {
            "principalName": {
              "safeRegex": {
                "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
              }
            }
          }
        }
      ]
    }
  }
 }
}
{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
  "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
  "rules": {
    "policies": {
      "consul-intentions-layer7-0": {
        "permissions": [
          {
            "andRules": {
              "rules": [
                {
                  "urlPath": {
                    "path": {
                      "prefix": "some-path"
                    }
```

```
          }
        },
        {
          "andRules": {
            "rules": [
              {
                "metadata": {
                  "filter": "envoy.filters.http.jwt_authn",
                  "path": [
                    {
                      "key": "jwt_payload_okta"
                    },
                    {
                      "key": "iss"
                    }

                  ],
                  "value": {
                    "stringMatch": {
                      "exact": "mytest.okta-issuer"
                    }
                  }
                }
              },
              {
                "metadata": {
                  "filter": "envoy.filters.http.jwt_authn",
                  "path": [
                    {
                      "key": "jwt_payload_okta"
                    },
                    {
                      "key": "roles"
                    }
                  ],
                  "value": {
                    "stringMatch": {
                      "exact": "testing"
                    }
                  }
                }
              }

]
          }
        }
      ]
    }
```

```
          }
        ],
        "principals": [
          {
            "authenticated": {
              "principalName": {
                "safeRegex": {
                  "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
                }
              }
            }
          }
        ]
      }
    }
  }
 }
}
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

section[data-route='dc.show.license'] {
 @extend %license-route;
}
%license-route .validity {
 @extend %license-validity;
}
%license-route aside {
 @extend %license-route-learn-more;
}

%license-route h2 {
 @extend %display-400-semibold;
}

%license-validity p {
 color: var(--token-color-foreground-faint);
}
%license-validity dl {
 @extend %horizontal-kv-list;
 @extend %body-300-regular;
}
%license-validity dl .expired + dd {
 @extend %visually-hidden;
}
%license-validity dl dt::before {
```

```
 content: '';
 margin-right: 0.25rem; /* 4px */
}
%license-validity dl .expired::before {
 --icon-name: icon-x-circle;
 --icon-color: var(--token-color-foreground-critical);
}
%license-validity dl .warning::before {
 --icon-name: icon-alert-circle;
 --icon-color: var(--token-color-foreground-warning);
}
%license-validity dl .valid:not(.warning)::before {
 --icon-name: icon-check-circle;
 --icon-color: var(--token-color-foreground-success);
}

%license-route-learn-more
 {
 @extend %panel;
 box-shadow: none;
 padding: var(--padding-y) var(--padding-x);
 width: 40%;
 min-width: 413px;
 margin-top: 1rem; /* 16px */
}
%license-route-learn-more header > :first-child {
 @extend %display-300-semibold;
}
%license-route-learn-more header {
 margin-bottom: 1rem; /* 16px */
}
{{!
 Copyright (c) HashiCorp, Inc.
 SPDX-License-Identifier: BUSL-1.1
}}

<Route
 @name={{routeName}}
as |route|>
 <DataLoader
   @src={{
     uri '/${partition}/${nspace}/${dc}/license'
     (hash
       partition=route.params.partition
       nspace=route.params.nspace
       dc=route.params.dc
     )
   }}
```

```
 as |loader|>

{{#let
 loader.data
as |item|}}
  <BlockSlot @name="error">
    <ErrorState
      @error={{loader.error}}
      @login={{route.model.app.login.open}}
    />
  </BlockSlot>

  <BlockSlot @name="disconnected" as |after|>
    {{#if (eq loader.error.status "404")}}
      <Hds::Toast @color='warning'
        {{notification
          sticky=true
        }} as |T|>
        <T.Title>Warning!</T.Title>
        <T.Description>This service has been deregistered and no longer exists in the catalog.</T.Description>
      </Hds::Toast>
    {{else if (eq loader.error.status "403")}}
      <Hds::Toast @color='critical'
        {{notification
           sticky=true
        }} as |T|>
        <T.Title>Error!</T.Title>
        <T.Description>You no longer have access to this service.</T.Description>
      </Hds::Toast>
    {{else}}
      <Hds::Toast @color='warning'
        {{notification
          sticky=true
        }} as |T|>
        <T.Title>Warning!</T.Title>
        <T.Description>An error was returned whilst loading this data, refresh to try again.</T.Description>
      </Hds::Toast>
    {{/if}}
  </BlockSlot>

  <BlockSlot @name="loaded">
    <div class="tab-section">
      <section
        class={{class-map
          'validity'
          (array 'valid' item.Valid)
        }}
      >
```

```
    <header>
      <h2>
        {{compute (fn route.t 'expiry.header')}}
      </h2>
    </header>

    <p>
      {{compute (fn route.t 'expiry.${type}.body'
        (hash
          type=(if item.Valid 'valid' 'expired')

  date=(format-time item.License.expiration_time
            year='numeric'
            month='long'
            day='numeric'
          )
          time=(format-time item.License.expiration_time
            hour12=true
            hour='numeric'
            hourCycle='h12'
            minute='numeric'
            second='numeric'
            timeZoneName='short'
          )
          htmlSafe=true
        )
      )}}
    </p>

    <dl>
      <dt class={{class-map
          (array 'valid' item.Valid)
          (array 'expired' (not item.Valid))
          (array 'warning' (temporal-within item.License.expiration_time 2629800000))
        }}
      >
        {{compute (fn route.t 'expiry.${type}.header'
          (hash
            type=(if item.Valid 'valid' 'expired')
          )
        )}}
      </dt>

<dd>
        {{temporal-format item.License.expiration_time}}
      </dd>
    </dl>
```

```
        <aside>
          <header>
            <h3>
              {{compute (fn route.t 'documentation.title')}}
            </h3>
          </header>
          <div class="flex gap-1.5 flex-col">
            <Hds::Link::Standalone
              @text={{compute (fn route.t 'documentation.links.license-expiration.text')}}
              @href='{{concat (env 'CONSUL_DOCS_URL') (compute (fn route.t 'documentation.links.license-
expiration.link'))}}'
              @icon='docs-link'
              @iconPosition='trailing'
            />
            <Hds::Link::Standalone
              @text={{compute (fn route.t 'documentation.links.renewing-license.text')}}
              @href='{{concat (env 'CONSUL_DOCS_URL') (compute (fn route.t 'documentation.links.renewing-
license.link'))}}'
              @icon='docs-link'
              @iconPosition='trailing'

        />
            <Hds::Link::Standalone
              @text={{compute (fn route.t 'documentation.links.applying-new-license.text')}}
              @href='{{concat (env 'CONSUL_DOCS_URL') (compute (fn route.t 'documentation.links.applying-new-
license.link'))}}'
              @icon='docs-link'
              @iconPosition='trailing'
            />
          </div>
        </aside>

      </section>
    </div>
  </BlockSlot>
{{/let}}
 </DataLoader>
</Route>
// Copyright (c) HashiCorp, Inc.
// SPDX-License-Identifier: MPL-2.0

package api

import (
 "io"
 "strings"
 "time"
)
```

```
type License struct {
 // The unique identifier of the license
 LicenseID string `json:"license_id"`

 // The customer ID associated with the license
 CustomerID string `json:"customer_id"`

 // If set, an identifier that should be used to lock the license to a
 // particular site, cluster, etc.
 InstallationID string `json:"installation_id"`

 // The time at which the license was issued
 IssueTime time.Time `json:"issue_time"`

 // The time at which the license starts being valid
 StartTime time.Time `json:"start_time"`

 // The time after which the license expires
 ExpirationTime time.Time `json:"expiration_time"`

 // The time at which the license ceases to function and can
 // no longer be used in any capacity
 TerminationTime time.Time `json:"termination_time"`

 // Whether the license will ignore termination
 IgnoreTermination bool `json:"ignore_termination"`

 //
 The product the license is valid for
 Product string `json:"product"`

 // License Specific Flags
 Flags map[string]interface{} `json:"flags"`

 // Modules is a list of the licensed enterprise modules
 Modules []string `json:"modules"`

 // List of features enabled by the license
 Features []string `json:"features"`
}

type LicenseReply struct {
 Valid    bool
 License  *License
 Warnings []string
}
```

```
func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
 var reply LicenseReply
 if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
  return nil, err
 } else {
  return &reply, nil
 }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
 r := op.c.newRequest("GET", "/v1/operator/license")
 r.params.Set("signed", "1")
 r.setQueryOptions(q)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return "", err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return "", err
 }

 data, err := io.ReadAll(resp.Body)
 if
 err != nil {
  return "", err
 }

 return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r := op.c.newRequest("DELETE", "/v1/operator/license")
 r.setWriteOptions(opts)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return nil, err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return nil, err
 }
```

```
 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
 }
 return &reply, nil
}

// LicensePut will configure the Consul Enterprise license for the target datacenter
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set
 via agent configuration instead of through the API
func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r := op.c.newRequest("PUT", "/v1/operator/license")
 r.setWriteOptions(opts)
 r.body = strings.NewReader(license)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return nil, err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return nil, err
 }

 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
 }

 return &reply, nil
}
/**
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*/

.consul-intention-permission-header-list {
 dt::before {
   @extend %with-glyph-icon;
   content: 'H';
 }
}
/**
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*/

.consul-intention-permission-list {
```

```
 dt::before {
   @extend %with-glyph-icon;
 }
 dl.permission-methods dt::before {
   content: 'M';
 }
 dl.permission-path dt::before {
   content: 'P';
 }
 dl.permission-header dt::before {
   content: 'H';
 }
}
---
layout: docs
page_title: Enterprise Licenses
description: >-
 Consul Enterprise server, client, and snapshot agents require a license on startup in order to use Enterprise features.
Learn how to apply licenses using environment variables or configuration files.
---

# Consul Enterprise License

## Licensing Overview

All Consul Enterprise agents must be licensed when they are started. Where that license comes from will depend
on which binary is in use, whether the agent is a server, client or snapshot agent, and whether ACLs have been
enabled for the cluster.

-> ** Consul Enterprise 1.10.0 removed temporary licensing.** Prior to 1.10.0, Consul Enterprise
agents could start without a license and then have a license applied to them later on via the CLI
or API. That functionality has been removed and replaced with the ability to load licenses from the
agent's configuration or environment. Also, prior to 1.10.0, server agents would automatically propagate
the license between themselves.
 This no longer occurs and the license must be present on each server agent
when it is started.

Consul Enterprise 1.14.0, when running on Kubernetes, removed client agents and replaced these with virtual
agents.
Virtual agents are nodes that Consul service mesh services run on. HashiCorp uses virtual agents to determine
license entitlements for customers on per-node licensing and pricing agreements.

-> Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-
license?utm_source=docs) for detailed steps on how to install the license key.

### Applying a License

For Consul Enterprise 1.10.0 or greater, a license must be available at the time the agent starts.
```

For server agents this means that they must either have the [`license_path`](/consul/docs/agent/config/config-files#license_path)
configuration set or have a license configured in the servers environment with the `CONSUL_LICENSE` or `CONSUL_LICENSE_PATH` environment variables. Both the configuration
item and the `CONSUL_LICENSE_PATH`
environment variable point to a file containing the license whereas the `CONSUL_LICENSE` environment variable should contain the license as the value. If multiple variables are set,
the following order of precedence applies:

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

Client agents and [snapshot agents](/consul/docs/enterprise/backups)
may also be licensed in the very same manner.
However, to avoid the need to configure the license on many client agents and snapshot agents,
those agents have the capability to retrieve the license automatically under the conditions described below.

Virtual agents do not need the license to run.

Updating the license for an agent depends on the method you used to apply the license.
- **If you used the `CONSUL_LICENSE`
environment variable**: After updating the environment variable, restart the affected agents.
- **If you used the
`CONSUL_LICENSE_PATH`
environment variable**: Update the license file first. Then, restart the affected agents.
- **If you used the `license_path` configuration item**: Update the license file first. Then, run [`consul reload`](/consul/commands/reload) for the affected agents.

Client Agent License Retrieval

When a client agent starts without a license in its configuration or environment, it will try to retrieve the license from the servers via RPCs. That RPC always requires a valid non-anonymous ACL token to authorize the request but the token doesn't need any particular permissions. As the license is required before the client actually joins the cluster, where to make those RPC requests to is inferred from the [`retry_join`](/consul/docs/agent/config/config-files#retry_join) configuration. If `retry_join` is unset or no [`agent` token](/consul/docs/agent/config/config-files#acl_tokens_agent) is set then the client agent will immediately shut itself down.

If all preliminary checks
pass the client agent will attempt to reach out to any server on its RPC port to
request the license. These requests will be retried for up to 5 minutes and if it is unable to retrieve a license within that time frame it will shut itself down.

If ACLs are disabled then the license must be provided to the client agent through one of the three methods listed below.
Failure in providing the client agent with a licence will prevent the client agent from joining the cluster.

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

Snapshot Agent License Retrieval

The snapshot agent has similar functionality to the client agent for automatically retrieving the license. However, instead of requiring a server agent to talk to, the snapshot agent can request the license from the server or client agent it would use for all other operations. It still requires an ACL token to authorize the request. Also like client agents,
 the snapshot agent will shut itself down after being unable to retrieve the license for 5
minutes.

```
/**
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*/

.consul-intention-permission-list {
 .detail > div {
   display: flex;
   width: 100%;
 }
 strong {
   margin-right: 8px;
 }
}
{{!
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}}

{{#if isVisible}}
 <Hds::Alert @type="inline" class='mb-3 mt-2 agentless-node-notice' data-test-node-agentless-notice as |A|>
   <A.Title>
     <span>{{t 'routes.dc.nodes.index.agentless.notice.header'}}</span>
     <Hds::Button
       @color='secondary'
       @text='Dismiss notice'
       {{on 'click' this.dismissAgentlessNotice}}
       @icon='x'
       @size='small'
       @isIconOnly={{true}}
     />
   </A.Title>
   <A.Description>{{t 'routes.dc.nodes.index.agentless.notice.body'}}</A.Description>
   <A.Link::Standalone @href='{{env "CONSUL_DOCS_DEVELOPER_URL"}}/connect/dataplane'
                       @text={{t 'routes.dc.nodes.index.agentless.notice.footer'}}
                       @icon='docs-link'
```

```
                @iconPosition='trailing' />
 </Hds::Alert>
{{/if}}
/*!
* QUnit 2.19.4
* https://qunitjs.com/
*
* Copyright OpenJS Foundation and other contributors
* Released under the MIT license
* https://jquery.org/license
*/
{{!
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}}

<Hds::Alert @type="inline" class="mb-3 mt-2" as |A|>
 <A.Description>{{t "components.consul.intention.notice.permissions.body"}}</A.Description>
 <A.Link::Standalone
   @text={{t "components.consul.intention.notice.permissions.footer"}}
   @href="{{env 'CONSUL_DOCS_URL'}}/connect/intentions"
   @icon="docs-link"
   @iconPosition="trailing"
   @size="small"
 />
</Hds::Alert>
```

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Parameters

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```
{
 "name": "envoy.filters.http.jwt_authn",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.jwt_authn.v3.JwtAuthentication",
   "providers": {
     "auth0": {
       "issuer": "another-issuer",
       "payloadInMetadata": "jwt_payload_auth0",
       "remoteJwks": {
         "asyncFetch": {
           "fastListener": true
         },
         "httpUri": {
           "cluster": "jwks_cluster_auth0",
           "timeout": "1s",
           "uri": "https://example-auth0.com/.well-known/jwks.json"
         }
       }
     },
     "okta": {
       "issuer": "test-issuer",
       "payloadInMetadata": "jwt_payload_okta",
```

```
      "remoteJwks": {
        "asyncFetch": {
          "fastListener": true
        },
        "httpUri": {
          "cluster": "jwks_cluster_okta",
          "timeout": "1s",
          "uri": "https://example-okta.com/.well-known/jwks.json"
        }
      }
    }
  },
  "rules": [
    {

"match": {
        "prefix": "/"
      },
      "requires": {
        "requiresAll": {
          "requirements": [
            {
              "requiresAny": {
                "requirements": [
                  {
                    "providerName": "okta"
                  },
                  {
                    "allowMissingOrFailed": {}
                  }
                ]
              }
            },
            {
              "requiresAny": {
                "requirements": [
                  {
                    "providerName": "auth0"
                  },
                  {
                    "allowMissingOrFailed": {}
                  }
                ]
              }
            }
          ]
        }
      }
```

```
    }
  ]
 }
}
{{!
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}}

<div
 ...attributes
 class="consul-intention-permission-form"
>
<FormGroup
 @name={{name}}
as |group|>

 {{yield (hash
   submit=(action 'submit' changeset)
   reset=(action 'reset' changeset)

   isDirty=(and changeset.isValid)
   changeset=changeset
 )}}

 <fieldset>
   <div data-property="action">
     <span class="label">
       Should this permission allow the source connect to the destination?
     </span>
     <div role="radiogroup" class={{if changeset.error.Action ' has-error'}}>
       {{#each intents as |intent|}}
         <label>
           <span>{{capitalize intent}}</span>
           <input
             type="radio"
             name="Action"
             value={{intent}}
             checked={{if (eq changeset.Action intent) 'checked'}}
             onchange={{action (changeset-set changeset 'Action') value="target.value"}}
           />
         </label>
       {{/each}}
      </div>
   </div>
 </fieldset>

 <fieldset>
```

```
  <header>
    <h2>Path</h2>
  </header>
  <div>
      <group.Element
        @name="PathType"
        @type="select"
      as |el|>
        <el.Label>
          Path type
        </el.Label>
        <PowerSelect
          @options={{pathTypes}}
          @selected={{pathType}}
          @onChange={{action 'change' 'HTTP.PathType' changeset}} as |Type|>
            {{get pathLabels Type}}
        </PowerSelect>
      </group.Element>

{{#if shouldShowPathField}}
      <group.Element
        @name="Path"
        @error={{changeset-get changeset 'error.HTTP.Path'}}
      as |el|>
        <el.Label>
          {{get pathLabels pathType}}
        </el.Label>
        <el.Text
          @value={{changeset-get changeset 'HTTP.Path'}}
          oninput={{action 'change' 'HTTP.Path' changeset}}
        />
        <State @state={{el.state}} @matches="error">
          <el.Error>

            {{#if (eq (changeset-get changeset 'HTTP.Path') 'Regex')}}
              Path Regex should not be blank
            {{else}}
              Path should begin with a '/'
            {{/if}}
          </el.Error>
        </State>
      </group.Element>
{{/if}}

  </div>
 </fieldset>

 <fieldset>
```

```
  <h2>Methods</h2>
  <div class="type-toggle">
    <span>All methods are applied by default unless specified</span>
    <group.Element
      @name="allMethods"
    as |el|>
      <el.Checkbox
        checked={{if allMethods 'checked'}}
        onchange={{action 'change' 'allMethods' changeset}}
      />
      <el.Label>
        All Methods
      </el.Label>
    </group.Element>
  </div>

{{#if shouldShowMethods}}
  <div class="checkbox-group" role="group">
    {{#each methods as |method|}}
      <label class="type-checkbox">
        <input
          type="checkbox"
          name="method"
          value={{method}}

  checked={{if (includes method changeset.HTTP.Methods) 'checked'}}
          onchange={{action 'change' 'method' changeset}}
        />
        <span>{{method}}</span>
      </label>
    {{/each}}
  </div>
{{/if}}
 </fieldset>

 <fieldset>
  <h2>Headers</h2>

  <Consul::Intention::Permission::Header::List
    @items={{changeset-get changeset 'HTTP.Header'}}
    @ondelete={{action 'delete' 'HTTP.Header' changeset}}
  as |headerList|>

  </Consul::Intention::Permission::Header::List>

  <Consul::Intention::Permission::Header::Form
    @onsubmit={{action 'add' 'HTTP.Header' changeset}}
  as |headerForm|>
```

```
    <Ref @target={{this}} @name="headerForm" @value={{headerForm}} />
  </Consul::Intention::Permission::Header::Form>

  <Hds::ButtonSet>
    <Hds::Button
      data-test-add-header
      @text='Add{{if (gt (get (changeset-get changeset 'HTTP.Header') 'length') 0) ' another' ''}} header'
      @color='primary'
      disabled={{if (not this.headerForm.isDirty)
'disabled'}}
      onclick={{action this.headerForm.submit}}
    />
    <Hds::Button
      @text='Cancel'
      @color='secondary'
      onclick={{action this.headerForm.reset}}
    />
  </Hds::ButtonSet>
 </fieldset>
 </FormGroup>
</div>
```

1.4426 bolt v1.3.2

1.4426.1 Available under license :

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//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
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```
package spec

import (
 "encoding/json"

 "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 LicenseProps
 VendorExtensible
```

```
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}

// UnmarshalJSON
 hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
 if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
  return err
 }
 return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
 b1, err := json.Marshal(l.LicenseProps)
 if err != nil {
  return nil, err
 }
 b2, err := json.Marshal(l.VendorExtensible)
 if err != nil {
  return nil, err
 }
 return swag.ConcatJSON(b1, b2), nil
}
```

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Kubeval - Validate Kubernetes configuration files

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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localtime.go, localtime_test.go:

Originals:
https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil.go
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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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//go:build go1.10
// +build go1.10

```
package pq

import (
 "context"
 "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
 return c.(*conn).noticeHandler
}
```

```
// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
 c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
//
 on it.
type NoticeHandlerConnector struct {
 driver.Connector
 noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
 c, err := n.Connector.Connect(ctx)
 if err == nil {
  SetNoticeHandler(c, n.noticeHandler)
 }
 return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  return c.noticeHandler
 }
 return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
 setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
```

```
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  c.noticeHandler = handler
  return c
 }
 return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
```

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1.4433 groupcache 0.0.0-20241129210726-2c02b8208cf8

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1.4434 mmap-go 1.2.0

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1.4435 genproto-googleapis-api 0.0.0-20241216192217-9240e9c98484

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1.4436 otel-exporters-prometheus 0.55.0

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1.4437 otel-exporters-otlp-otlptrace-otlptracehttp 1.33.0

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1.4438 cjson v1.7.16

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Also thanks to all the people who reported bugs and suggested new features.

1.4439 etcd-etcdutl v3.5.15

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Support for streaming Protocol Buffer messages for the Go language (golang).
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1.4441 hcloud-go 2.17.1

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---
layout: docs
page_title: 'Commands: license'
description: |
The license command is used to interact with an enterprise license.

Command: license

~> License commands are only available with Nomad Enterprise.

The `license` commands can be used to retrieve license information from a server,
or inspect and validate a license.

Click [here](https://www.hashicorp.com/products/nomad/trial) to get a trial license for Nomad Enterprise.

Usage

Usage: `nomad license <subcommand> [options]`

Run `nomad license <subcommand> -h` for help on that subcommand. The following
subcommands are available:

- [`license get`][get] - Get the current license from a server
- [`license inspect`][inspect] - Inspect and validate a license

[get]: /nomad/docs/commands/license/get 'Get the current license from a server'
[inspect]: /nomad/docs/commands/license/inspect 'Inspect and validate a license'
---
layout: docs
page_title: 'Commands: license get'
description: |
 The license get command is used to get the current license.

Command: license get

The `license get` command is used to retrieve the current Nomad Enterprise license. The command is not forwarded to the Nomad leader, and will return the license from the specific server being contacted.

~> License commands are only available with Nomad Enterprise.

Usage

```plaintext
nomad license get [options]
```

When ACLs are enabled, this command requires a token with the 'operator:read' capability.

General Options

@include 'general_options_no_namespace.mdx'

Examples

```shell-session
$ nomad license get

Product        = nomad
License Status = valid
License ID     = e23f63b1-00ec-4e67-e926-c22e7937ceec
Customer ID    = 350356e5-8aec-bdf4-8510-b205079ccad2
Issued At      = 2021-03-31 14:21:16.969610774 +0000 UTC
Expires At     = 2020-05-09 00:00:00 +0000 UTC
Terminates At  = 2020-05-10 00:00:00 +0000 UTC
Datacenter
    = *
Modules:
      governance-policy
Licensed Features:
```

```
    Automated Upgrades
    Enhanced Read Scalability
    Redundancy Zones
    Namespaces
    Resource Quotas
    Preemption
    Audit Logging
    Setinel Policies
```

```shell-session
$ nomad license get -stale=true

Product        = nomad
License Status = valid
License ID     = 8c647f6c-1e6d-18d8-7f05-92c4d8110b2d
Customer ID    = 350356e5-8aec-bdf4-8510-b205079ccad2
Issued At      = 2021-03-31 14:21:16.969610774 +0000 UTC
Expires At     = 2022-04-01 00:00:00 +0000 UTC
Terminates At  = 2022-04-04 00:00:00 +0000 UTC
Datacenter     = *
Modules:
    governance-policy
    multicluster-and-efficiency
Licensed Features:
    Automated Upgrades
    Enhanced Read Scalability
    Redundancy Zones
    Namespaces
    Resource Quotas
    Audit Logging
    Sentinel Policies
    Multiregion Deployments
    Automated Backups
    Multi-Vault Namespaces
```

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package command

import (
 "fmt"
 "strings"
 "time"

 "github.com/hashicorp/nomad/api"
 "github.com/mitchellh/cli"
)

var _ cli.Command = &LicenseCommand{}

type LicenseCommand struct {
 Meta
}
```

```
func (l *LicenseCommand) Help() string {
 helpText := `
Usage: nomad license <subcommand> [options] [args]

This command has subcommands for managing the Nomad Enterprise license.
For more detailed examples see:
https://developer.hashicorp.com/nomad/docs/commands/license

Retrieve the server's license:

 $ nomad license get

 `
 return strings.TrimSpace(helpText)
}

func (l *LicenseCommand) Synopsis() string {
 return "Interact with Nomad Enterprise License"
}

func (l *LicenseCommand) Name() string { return "license" }

func (l *LicenseCommand) Run(args []string) int {
 return cli.RunResultHelp
}

func OutputLicenseReply(ui cli.Ui, resp *api.LicenseReply) int {
 now := time.Now()
 expired := resp.License.ExpirationTime.Before(now)
 terminated
 := resp.License.TerminationTime.Before(now)
 outputLicenseInfo(ui, resp.License, expired, terminated)
 if expired {
  return 1
 }
 return 0
}

func outputLicenseInfo(ui cli.Ui, lic *api.License, expired, terminated bool) {
 expStr := ""
 if expired {
  expStr = fmt.Sprintf("Expired At|%s", lic.ExpirationTime.String())
 } else {
  expStr = fmt.Sprintf("Expires At|%s", lic.ExpirationTime.String())
 }
 termStr := ""
 if terminated {
```

```
 termStr = fmt.Sprintf("Terminated At|%s", lic.TerminationTime.String())
 } else {
 termStr = fmt.Sprintf("Terminates At|%s", lic.TerminationTime.String())
 }

 validity := "valid"
 if expired {
  validity = "expired!"
 }
 output := []string{
  fmt.Sprintf("Product|%s", lic.Product),
  fmt.Sprintf("License Status|%s", validity),
  fmt.Sprintf("License ID|%s", lic.LicenseID),
  fmt.Sprintf("Customer ID|%s", lic.CustomerID),
  fmt.Sprintf("Issued At|%s", lic.IssueTime),
  expStr,
  termStr,
  fmt.Sprintf("Datacenter|%s", lic.InstallationID),
 }
 ui.Output(formatKV(output))

 if
 len(lic.Modules) > 0 {
  ui.Output("Modules:")
  for _, mod := range lic.Modules {
   ui.Output(fmt.Sprintf("\t%s", mod))
  }
 }
 if len(lic.Features) > 0 {
  ui.Output("Licensed Features:")
  for _, f := range lic.Features {
   ui.Output(fmt.Sprintf("\t%s", f))
  }
 }
}
---
layout: docs
page_title: Nomad Enterprise Licensing
description: >-
 Learn about how Nomad Enterprise licensing works.
---

## Nomad Enterprise Licensing

Licensing capabilities were added to Nomad Enterprise v0.12.0. Each server in
the cluster must have a license to start. Nomad Enterprise can be downloaded from
the [releases site].
```

Click [here](https://www.hashicorp.com/go/nomad-enterprise) to set up a demo of Nomad Enterprise
or [here](/nomad/tutorials/enterprise/hashicorp-enterprise-license#request-a-trial-license)
for instructions on how to get a trial license.

~> **Note:** A Nomad Enterprise cluster cannot be downgraded to the open
source version of Nomad. Servers running the open source version of Nomad will
panic if they are joined to a Nomad Enterprise cluster, due to raft entries
relating to Enterprise features not being parseable by open source Nomad.

Expiring Licenses

Nomad Enterprise licenses have an expiration time.
You can read and validate the license on a running
server,
on disk, or in your environment with the
[`nomad license` commands](/nomad/docs/commands/license).

Before upgrading Nomad or replacing your license with a new one, you should always run
[`nomad license inspect`](/nomad/docs/commands/license/inspect)
to ensure the license is valid with your server binary.

As a Nomad Enterprise license approaches its expiration time, Nomad servers
will periodically log a warning message about the approaching
expiration. Below shows log excerpts of the warnings.

```
  2021-03-29T15:02:28.100-0400 [WARN]  nomad.licensing: license expiring: time_left=5m0s
  2021-03-29T15:03:28.103-0400 [WARN]  nomad.licensing: license expiring: time_left=4m0s
  2021-03-29T15:04:28.106-0400 [WARN]  nomad.licensing: license expiring: time_left=3m0s
  2021-03-29T15:05:28.109-0400 [WARN]  nomad.licensing: license expiring: time_left=2m0s
  2021-03-29T15:06:28.112-0400 [WARN]  nomad.licensing: license expiring: time_left=1m0s
  2021-03-29T15:07:28.114-0400
[WARN]  nomad.licensing: license expiring: time_left=0s
  2021-03-29T15:07:58.104-0400 [ERROR] nomad.licensing: license expired, please update license: error="invalid
license or license is expired"
```

When the license expires, enterprise functionality will become limited. Only
read operations on enterprise endpoints will be supported, and write
operations will return an error.

Configuring the License

See the server [license configuration] reference documentation on all the
options to set an enterprise license. Nomad will load the license file from
disk or environment when it starts.

~> **Note:** An Enterprise license [tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license) is available

to help you install the license on the server.

In order to immediately alert operators of a bad configuration setting, if a license configuration option is an invalid or expired license, the Nomad server will exit with an error.

```
NOMAD_LICENSE=misconfigured nomad agent -dev
==>
 No configuration files loaded
==> Starting Nomad agent...
==> Error starting agent: server setup failed: failed to initialize enterprise licensing: a file license was configured but the license is invalid: error decoding version: expected integer
```

See the [License commands](/nomad/docs/commands/license) for more information on interacting with the Enterprise License.

[releases site]: https://releases.hashicorp.com/nomad
[license configuration]: /nomad/docs/configuration/server#license_path
[license endpoint]: /nomad/api-docs/operator/license#updating-the-nomad-enterprise-license
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//go:build !ent

package nomad

func (c *LicenseConfig) Validate() error {
 return nil
}
---
layout: api
page_title: License - Operator - HTTP API
description: |-
 The /operator/license endpoints allow for retrieving the Nomad Enterprise License.

License Operator HTTP API

<EnterpriseAlert />

Get Nomad Enterprise License Info

This endpoint gets information about the current license.

Method	Path	Produces

| `GET` | `/v1/operator/license` | `application/json` |

The table below shows this endpoint's support for
[blocking queries](/nomad/api-docs#blocking-queries) and
[required ACLs](/nomad/api-docs#acls).

Blocking Queries	ACL Required
`NO`	`operator:read`

Sample Request

```shell-session
$ curl \
  https://localhost:4646/v1/operator/license
```

Sample Response

```json
{
 "KnownLeader": false,
 "LastContact": 0,
 "LastIndex": 0,
 "License": {
   "CustomerID": "customer name",
   "ExpirationTime":
 "2020-06-01T14:50:16.581304556-04:00",
   "Features": [
     "Automated Upgrades",
     "Enhanced Read Scalability",
     "Redundancy Zones",
     "Namespaces",
     "Resource Quotas",
     "Preemption",
     "Audit Logging",
     "Setinel Policies"
   ],
   "Flags": {
     "modules": ["governance-policy"]
   },
   "InstallationID": "*",
   "IssueTime": "2020-06-01T08:50:16.581304556-04:00",
   "LicenseID": "6f706a45-bdac-4a70-968b-d93784894653",
   "Modules": ["governance-policy"],
   "Product": "nomad",
   "StartTime": "2020-06-01T08:50:16.581304556-04:00",
   "TerminationTime": "2020-06-01T14:50:16.581304556-04:00"
```

```
 },
 "RequestTime": 0
}
```
```
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package command

import (
 "fmt"

 "github.com/hashicorp/nomad/api"
 "github.com/posener/complete"
)

type LicenseGetCommand struct {
 Meta
}

func (c *LicenseGetCommand) Help() string {
 helpText := `
Usage: nomad license get [options]

 Gets the license loaded by the server. The command is not forwarded to the
 Nomad leader, and will return the license from the specific server being
 contacted.

 When ACLs are enabled, this command requires a token with the
 'operator:read' capability.

General Options:

 ` + generalOptionsUsage(usageOptsDefault|usageOptsNoNamespace)

 return helpText
}

func (c *LicenseGetCommand) AutocompleteFlags() complete.Flags {
 return complete.Flags{}
}

func (c *LicenseGetCommand) AutocompleteArgs() complete.Predictor {
 return complete.PredictNothing
}

func (c *LicenseGetCommand) Synopsis() string {
 return "Retrieve the current Nomad Enterprise License"
```

```
}

func (c *LicenseGetCommand)
 Name() string { return "license get" }

func (c *LicenseGetCommand) Run(args []string) int {
 flags := c.Meta.FlagSet(c.Name(), FlagSetClient)
 flags.Usage = func() { c.Ui.Output(c.Help()) }

 if err := flags.Parse(args); err != nil {
  c.Ui.Error(fmt.Sprintf("Error parsing flags: %s", err))
  return 1
 }

 client, err := c.Meta.Client()
 if err != nil {
  c.Ui.Error(fmt.Sprintf("Error initializing client: %s", err))
  return 1
 }

 resp, _, err := client.Operator().LicenseGet(&api.QueryOptions{})
 if err != nil {
  c.Ui.Error(fmt.Sprintf("Error getting license: %v", err))
  return 1
 }

 return OutputLicenseReply(c.Ui, resp)
}
---
layout: docs
page_title: Automated license utilization reporting
description: >-
 Learn what data HashiCorp collects to meter Enterprise license utilization. Enable or disable reporting. Review
sample payloads and logs.
---

# Automated license utilization reporting

Automated license utilization reporting sends license utilization data to HashiCorp without requiring you
to manually collect and report them. It also lets you review your license usage with the monitoring
solution you already use (for example Splunk, Datadog, or others) so you can optimize and manage your
deployments. Use these reports to understand how much more you can deploy under your current contract,
protect against overutilization, and budget for predicted consumption.

Automated reporting shares the minimum data required to validate license utilization as defined in our
contracts. They consist of mostly computed metrics and will never contain Personal Identifiable Information
(PII) or other sensitive information.
```

Automated reporting shares the data with HashiCorp using a secure,
unidirectional HTTPS API and makes an auditable record in the product logs each time it submits a report. The reporting process is GDPR compliant and submits reports roughly once every 24 hours.

Enable automated reporting

To enable automated reporting, you need to make sure that outbound network traffic is configured correctly and upgrade your enterprise product to a version that supports it. If your installation is air-gapped or network settings are not in place, automated reporting will not work.

1. Allow outbound HTTPS traffic on port 443

Make sure that your network allows HTTPS egress on port 443 from https://reporting.hashicorp.services by allow-listing the following IP addresses:

- 100.20.70.12
- 35.166.5.222
- 23.95.85.111
- 44.215.244.1

2. Upgrade

Upgrade to a release that supports license utilization reporting. These releases include:
- [Nomad v1.7.0](/nomad/downloads) and later

3. Check logs

Automatic license utilization reporting will start sending data within roughly 24 hours. Check the product logs for records that the data sent successfully.

Instructions on how to check logs.

```
[DEBUG] core.reporting: beginning snapshot export
[DEBUG] core.reporting: creating payload
[DEBUG] core.reporting: marshalling payload to json
[DEBUG] core.reporting: generating authentication headers
[DEBUG] core.reporting: creating request
[DEBUG] core.reporting: sending request
[DEBUG] core.reporting: performing request: method=POST url=https://reporting.hashicorp.services
[DEBUG] core.reporting: recording audit record
[INFO]  reporting: Report sent: auditRecord={"payload":{"payload_version":"1","license_id":"d2cdd857-4202-5a45-70a6-e4b531050c34","product":"nomad","product_version":"1.6.0","export_timestamp":"2023-05-26T20:09:13.753921087Z","snapshots":[{"snapshot_version":1,"snapshot_id":"0001J724F90F4XWQDSAA76ZQWA","process_id":"01H1CTJPC1S8H7Q45MKTJ689ZW","timestamp":"2023-05-26T20:09:13.753513962Z","schema_version":"1.0.0","service":"nomad","metrics":{"nomad.billable.nodes":{"key":"nomad.billable.nodes","kind":"counter","mode":"write","value":33}}}]}}
```

```
[DEBUG]
 completed recording audit record
[DEBUG] core.reporting: export finished successfully
```

If your installation is air-gapped or your network doesnt allow the correct egress, logs will show an error.

```
[DEBUG] core.reporting: beginning snapshot export
[DEBUG] core.reporting: creating payload
[DEBUG] core.reporting: marshalling payload to json
[DEBUG] core.reporting: generating authentication headers
[DEBUG] core.reporting: creating request
[DEBUG] core.reporting: sending request
[DEBUG] core.reporting: performing request: method=POST url=https://reporting.hashicorp.services
[DEBUG] core.reporting: error status code received: statusCode=403
```

In this case, reconfigure your network to allow egress and check back in 24 hours.

Opt out

If your installation is air-gapped or you
 want to manually collect and report on the same license
utilization metrics, you can opt-out of automated reporting.

Manually reporting these metrics can be time consuming. Opting out of automated reporting does not mean that you also opt out from sending license utilization metrics. Customers who opt out of automated reporting will still be required to manually collect and send license utilization metrics to HashiCorp.

If you are considering opting out because youre worried about the data, we strongly recommend that you review the [example payloads](#example-payloads) before opting out. If you have concerns with any of the automatically-reported data please bring them to your account manager.

You have two options to opt out of automated reporting: HCL configuration (recommended) and Environment variable (requires restart).

Opting out in your products configuration file doesnt require a system restart, and is the method we recommend. Add the following block to your `server.hcl`
 file.

```hcl
reporting {
 license {
  enabled = false
   }
}
```

```

If you need to, you can also opt out using an environment variable, which will provide a startup message confirming that you have disabled automated reporting. This option requires a system restart.

Set the following environment variable.

```
$ export OPTOUT_LICENSE_REPORTING=true
```

Now restart your system by following [these instructions](/nomad/docs/operations/nomad-agent).

Check your product logs roughly 24 hours after opting out to make sure that the system isnt trying to send reports.

If your configuration file and environment variable differ, the environment variable setting will take precedence.

## Example payloads

HashiCorp collects the following utilization data as JSON payloads:

`billable.nodes` - Number of billable nodes in Nomad

```json
"metrics": {
   "nomad.billable.nodes": {
       "key": "nomad.billable.nodes",
       "kind": "counter",
       "mode": "write",
       "value":
 33
   }
}
```
---
layout: docs
page_title: Nomad Enterprise License FAQ
description: >-
 Frequently Asked Questions pertaining to Nomad Enterprise Licensing.

Frequently Asked Questions (FAQ)

This FAQ is for the license changes introduced in Nomad Enterprise version v1.6.0+ent.

For license-related FAQ for earlier versions, please refer to earlier versions of this document
```

using the version drop-down on this page, e.g. [v1.5.x](/nomad/docs/v1.5.x/enterprise/license/faq).

Q: Can I get a quick summary of the Nomad changes?

Starting with Nomad Enterprise v1.6.0, license expiration is different.

For trial licenses, the behavior remains the same. Enterprise features will stop working
when the license expires, and a server can not start with an expired license.

For new "non-terminating" contract licenses, instead of expiration being compared to the current time,
expiration time is compared to the build date of the Nomad binary, which you can find in the output of the
[`nomad version`](/nomad/docs/commands/version)
 command.

The practical result is that newer contract licenses will work in perpetuity for any v1.6.0+ version of Nomad
built prior to the expiration time of the license. No features will stop working,
and server agents can be restarted safely.

However, if you try to upgrade to a newer binary past license expiration, the server will not start.
To proactively avoid that, you can test a new binary with your license using the new
[`nomad license inspect`][license inspect] command
before trying to upgrade your servers.

Q: What resources are available?

The list below is a great starting point for learning more about license usage in general.

- [v1.6.0 Upgrade Guide](/nomad/docs/upgrade/upgrade-specific#enterprise-license-validation-with-builddate)

- [Nomad License Documentation](/nomad/docs/enterprise/license)

- [License configuration values documentation](/nomad/docs/configuration/server#license_path)

- [Install a HashiCorp Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license)

##
 Q: Does this affect older versions of Nomad?

This change only affects Nomad Enterprise version v1.6.0+ent and later.

Q: Does the license have to be present on Nomad client nodes?

Only Nomad server nodes need to have the license present.
Nomad agents running with the `-dev` flag will also need a license.

Q: What are some pitfalls that could be experienced during an upgrade because of the license changes?

If you have an expired license that has not yet become fully nonfunctional

(i.e. it is in grace period between ExpirationTime and TerminationTime),
then a Nomad server will not be able to start using a new v1.6.0+ binary.

Before shutting down a server agent to replace it with a new version,
be sure to run [`nomad license inspect`][license inspect] with the new binary.

Q: How can a user get their existing license?

If you are an existing HashiCorp enterprise customer you may contact your organization's customer
success manager (CSM) or email support-softwaredelivery@hashicorp.com for information on how to get your organization's enterprise license.
You can use `nomad license get` to retrieve information about the license, but not the license itself.

Q: What happens when a license expires?

All features will continue to work until you attempt to upgrade Nomad that is newer than your license expiration time.
In that case, the server agent will fail to start, and you'll need to roll back to the previous working version
and acquire a new license to use with the newer Nomad version before attempting the upgrade again.

Q: Are licenses cluster-specific? node-specific?

Licenses can be reused on different nodes and different clusters.

Q: Where can users get a trial license for Nomad?

Follow [these instructions](/nomad/tutorials/enterprise/hashicorp-enterprise-license#request-a-trial-license) to
request and enable a free 30-day trial license.

Q: When a Nomad client agent restarts, will
it still need a license file?

Every time `nomad agent` runs as a server (or in `-dev`), it requires a license.

Q: May I downgrade Nomad Enterprise from v1.6.0 to an earlier version?

Yes, if you upgrade a server to 1.6.0+ but it fails to start due to license expiration,
you can roll back to a previous working version with the old expiration logic.

If a server fails to start for any other reason aside from license expiration,
roll back to a previous version is not supported due to the Nomad state store
not having forward compatibility, and may result in a crash loop.

Q: Is there a tutorial available for the license configuration steps?
Please visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license).

[license inspect]: /nomad/docs/commands/license/inspect

```
// Copyright (c) HashiCorp, Inc.
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package nomad

import (
 "slices"
 "time"
)

// LicenseConfig allows for tunable licensing config
// primarily used for enterprise testing
type LicenseConfig struct {
 // BuildDate is the time of the git commit used to build the program.
 BuildDate time.Time

 // LicenseEnvBytes is the license bytes to use for the server's license
 LicenseEnvBytes string

 // LicensePath is the path to use for the server's license
 LicensePath string

 // AdditionalPubKeys is a set of public keys to
 AdditionalPubKeys []string
}

func (c *LicenseConfig) Copy() *LicenseConfig {
 if c == nil {
  return nil
 }

 nc := *c
 nc.AdditionalPubKeys = slices.Clone(c.AdditionalPubKeys)
 return &nc
}
```

ISC

```
// Copyright (c) HashiCorp, Inc.
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package command

import (
 "testing"
 "time"

 "github.com/hashicorp/nomad/api"
 "github.com/hashicorp/nomad/ci"
 "github.com/mitchellh/cli"
```

```
 "github.com/shoenig/test/must"
)

var _ cli.Command = &LicenseGetCommand{}

func TestCommand_LicenseGet_OSSErr(t *testing.T) {
 ci.Parallel(t)

 srv, _, url := testServer(t, false, nil)
 defer srv.Shutdown()

 ui := cli.NewMockUi()
 cmd := &LicenseGetCommand{Meta: Meta{Ui: ui}}

 code := cmd.Run([]string{"-address=" + url})
 if srv.Enterprise {
  must.Zero(t, code)
 } else {
  must.One(t, code)
  must.StrContains(t, ui.ErrorWriter.String(), "Nomad Enterprise only endpoint")
 }
}

func TestOutputLicenseReply(t *testing.T) {
 ci.Parallel(t)

 now := time.Now()
 lic := &api.LicenseReply{
  License: &api.License{
   LicenseID:       "licenseID",
   CustomerID:      "customerID",
   InstallationID:  "*",
   IssueTime:       now,
   StartTime:       now,
   ExpirationTime:  now.Add(1
* time.Hour),
   TerminationTime: now,
   Product:         "nomad",
   Flags: map[string]interface{}{
    "": nil,
   },
  },
 }

 ui := cli.NewMockUi()

 must.Zero(t, OutputLicenseReply(ui, lic))
```

```
 out := ui.OutputWriter.String()
 must.StrContains(t, out, "Customer ID")
 must.StrContains(t, out, "License ID")
}
---
layout: docs
page_title: 'Commands: license inspect'
description: |
 The license inspect command is used to inspect and validate an enterprise license.
---

# Command: license inspect

<EnterpriseAlert>
 This command is only present in Nomad Enterprise.
</EnterpriseAlert>

The `license inspect` command is used to inspect and validate a Nomad Enterprise
license. It will read the license from a file on disk or an environment variable
and exit non-0 if the license is not valid with the Nomad binary.

This command should always be run with the new binary before upgrading Nomad on a server,
as the server agent will not start with an invalid license.

## Usage

```plaintext
nomad license inspect [/path/to/license.hclic]
```

Examples

With a license file argument:

```shell-session
$ nomad license inspect /path/to/nomad/license.hclic
Source: /path/to/nomad/license.hclic
Product: nomad
License ID: aaaaaaaa-aaaa-aaaa-aaaa-aaaaaaaaaaaa
Customer ID: bbbbbbbb-bbbb-bbbb-bbbb-bbbbbbbbbbbb
Installation
 ID: *
Issue Time: 2021-12-01 17:49:23.021041516 +0000 UTC
Start Time: 2021-12-01 00:00:00 +0000 UTC
Expiration Time: 2023-12-01 00:00:00 +0000 UTC
Termination Time: 2024-01-01 00:00:00 +0000 UTC
Build Date: 2000-01-01 00:00:00 +0000 UTC
Flags: {
```
```

```
  "modules": [
    "multicluster-and-efficiency",
    "governance-policy"
  ]
}

License is valid
```

With a license file environment variable:

```shell-session
$ export NOMAD_LICENSE_PATH=/path/to/nomad/license.hclic
$ nomad license inspect
Source: /path/to/nomad/license.hclic (path from the NOMAD_LICENSE_PATH environment variable)
Product: nomad
.....
License is valid
```

With a license string environment variable:

```shell-session
$ export NOMAD_LICENSE=full-license-text-string
$ nomad license inspect
Source: NOMAD_LICENSE environment variable
.....
License is valid
```

Example error

```shell-session
$ nomad license inspect license.hclic
...
Validation Errors:
  * license is no longer valid
  * license expiration
 date is before version build date: expiration=2023-01-13T23:59:59Z build=2023-03-17T00:00:00Z
```

1.4443 docker 27.4.1+incompatible

1.4443.1 Available under license :

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1.4444 linodego 1.43.0

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1.4445 collector-pdata 1.22.0

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1.4446 pprof 0.0.0-20241210010833-40e02aabc2ad

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1.4447 contrib-instrumentation-net-http-httptrace-otelhttptrace 0.58.0

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1.4448 zk 1.0.4

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```

Found in path(s):
* /opt/cola/permits/2318296004_1737057692.9604323/0/ice-zk-1-0-4-sources-jar/META-INF/maven/com.kik.config/ice-zk/pom.xml
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* /opt/cola/permits/2318296004_1737057692.9604323/0/ice-zk-1-0-4-sources-jar/com/kik/config/ice/source/ZooKeeperDynamicConfigSource.java

1.4449 collector-semconv 0.116.0

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1.4450 ionos-cloud-sdk-go 6.3.0

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1.4452 projectcalico-api v3.29.1

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```
# TEMPORARY
btf_dump/btf_dump: syntax
kprobe_multi_bench_attach
core_reloc/enum64val
core_reloc/size___diff_sz
core_reloc/type_based___diff_sz
test_ima # All of CI is broken on it following 6.3-rc1 merge

lwt_reroute      # crashes kernel after netnext merge from 2ab1efad60ad "net/sched: cls_api: complement
tcf_tfilter_dump_policy"
tc_links_ingress # started failing after net-next merge from 2ab1efad60ad "net/sched: cls_api: complement
tcf_tfilter_dump_policy"
xdp_bonding/xdp_bonding_features     # started failing after net merge from 359e54a93ab4 "l2tp: pass correct
message length to ip6_append_data"
tc_redirect/tc_redirect_dtime # uapi breakage after net-next commit 885c36e59f46 ("net: Re-use and set
mono_delivery_time bit for userspace tstamp packets")
migrate_reuseport/IPv4 TCP_NEW_SYN_RECV reqsk_timer_handler # flaky, under investigation
migrate_reuseport/IPv6 TCP_NEW_SYN_RECV reqsk_timer_handler # flaky, under investigation
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======

**This is the official home of the libbpf library.**

*Please use this Github
 repository for building and packaging libbpf
and when using it in your projects through Git submodule.*

Libbpf *authoritative source code* is developed as part of [bpf-next Linux source
```

tree](https://kernel.googlesource.com/pub/scm/linux/kernel/git/bpf/bpf-next) under
`tools/lib/bpf` subdirectory and is periodically synced to Github. As such, all the
libbpf changes should be sent to [BPF mailing list](http://vger.kernel.org/vger-lists.html#bpf),
please don't open PRs here unless you are changing Github-specific parts of libbpf
(e.g., Github-specific Makefile).

Libbpf and general BPF usage questions
==========

Libbpf documentation can be found [here](https://libbpf.readthedocs.io/en/latest/api.html).
It's an ongoing effort and has ways to go, but please take a look and consider contributing as well.

Please check out [libbpf-bootstrap](https://github.com/libbpf/libbpf-bootstrap)
and [the companion blog post](https://nakryiko.com/posts/libbpf-bootstrap/)
for
the examples of building BPF applications with libbpf.
[libbpf-tools](https://github.com/iovisor/bcc/tree/master/libbpf-tools) are also
a good source of the real-world libbpf-based tracing tools.

See also ["BPF CO-RE reference guide"](https://nakryiko.com/posts/bpf-core-reference-guide/)
for the coverage of practical aspects of building BPF CO-RE applications and
["BPF CO-RE"](https://nakryiko.com/posts/bpf-portability-and-co-re/) for
general introduction into BPF portability issues and BPF CO-RE origins.

All general BPF questions, including kernel functionality, libbpf APIs and
their application, should be sent to bpf@vger.kernel.org mailing list. You can
subscribe to it [here](http://vger.kernel.org/vger-lists.html#bpf) and search
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libbpf mirror repo is set up and organized.

Building libbpf
==========
libelf is an internal dependency of libbpf and thus it is required to link
against and must be installed on the system for applications to work.
pkg-config is used by default to find libelf, and the program called can be
overridden with `PKG_CONFIG`.

If using `pkg-config` at build time is not desired, it can be disabled by
setting `NO_PKG_CONFIG=1` when calling make.

To build both static libbpf.a and shared libbpf.so:

```bash
$ cd src
$ make
```

To build only static libbpf.a library in directory
build/ and install them together with libbpf headers in a staging directory
root/:
```bash
$ cd src
$ mkdir build root
$ BUILD_STATIC_ONLY=y OBJDIR=build DESTDIR=root make install
```

To build both static libbpf.a and shared libbpf.so against a custom libelf
dependency
 installed in /build/root/ and install them together with libbpf
headers in a build directory /build/root/:
```bash
$ cd src
$ PKG_CONFIG_PATH=/build/root/lib64/pkgconfig DESTDIR=/build/root make install
```

BPF CO-RE (Compile Once Run Everywhere)
==========

Libbpf supports building BPF CO-RE-enabled applications, which, in contrast to
[BCC](https://github.com/iovisor/bcc/), do not require Clang/LLVM runtime
being deployed to target servers and doesn't rely on kernel-devel headers
being available.

It does rely on kernel to be built with [BTF type
information](https://www.kernel.org/doc/html/latest/bpf/btf.html), though.
Some major Linux distributions come with kernel BTF already built in:
 - Fedora 31+
 - RHEL 8.2+
 - OpenSUSE Tumbleweed (in the next release, as of 2020-06-04)
 - Arch Linux (from kernel 5.7.1.arch1-1)
 - Manjaro (from kernel 5.4 if compiled after 2021-06-18)
 - Ubuntu 20.10
 - Debian 11 (amd64/arm64)

If your kernel
 doesn't come with BTF built-in, you'll need to build custom
kernel. You'll need:
 - `pahole` 1.16+ tool (part of `dwarves` package), which performs DWARF to
   BTF conversion;
 - kernel built with `CONFIG_DEBUG_INFO_BTF=y` option;

- you can check if your kernel has BTF built-in by looking for
  `/sys/kernel/btf/vmlinux` file:

```shell
$ ls -la /sys/kernel/btf/vmlinux
-r--r--r--. 1 root root 3541561 Jun  2 18:16 /sys/kernel/btf/vmlinux
```

To develop and build BPF programs, you'll need Clang/LLVM 10+. The following distributions have Clang/LLVM 10+ packaged by default:
- Fedora 32+
- Ubuntu 20.04+
- Arch Linux
- Ubuntu 20.10 (LLVM 11)
- Debian 11 (LLVM 11)
- Alpine 3.13+

Otherwise, please make sure to update it on your system.

The following resources are useful to understand what BPF CO-RE is and how to use it:
- [BPF CO-RE reference guide](https://nakryiko.com/posts/bpf-core-reference-guide/)
- [BPF Portability and CO-RE](https://nakryiko.com/posts/bpf-portability-and-co-re/)
- [HOWTO: BCC to libbpf conversion](https://nakryiko.com/posts/bcc-to-libbpf-howto-guide/)
- [libbpf-tools in BCC repo](https://github.com/iovisor/bcc/tree/master/libbpf-tools) contain lots of real-world tools converted from BCC to BPF CO-RE. Consider converting some more to both contribute to the BPF community and gain some more experience with it.

Distributions
==========

Distributions packaging libbpf from this mirror:
- [Fedora](https://src.fedoraproject.org/rpms/libbpf)
- [Gentoo](https://packages.gentoo.org/packages/dev-libs/libbpf)
- [Debian](https://packages.debian.org/source/sid/libbpf)
- [Arch](https://archlinux.org/packages/core/x86_64/libbpf/)
- [Ubuntu](https://packages.ubuntu.com/source/jammy/libbpf)
- [Alpine](https://pkgs.alpinelinux.org/packages?name=libbpf)

Benefits of packaging from the mirror over packaging from kernel sources:
- Consistent versioning across distributions.
- No ties to any specific kernel, transparent handling of older kernels.
  Libbpf is designed to be kernel-agnostic and work across multitude of kernel versions. It has built-in mechanisms to gracefully handle older kernels, that are missing some of the features, by working around or

gracefully degrading functionality. Thus libbpf is not tied to a specific
kernel version and can/should be packaged and versioned independently.
- Continuous integration testing via
[GitHub Actions](https://github.com/libbpf/libbpf/actions).
- Static code analysis via [LGTM](https://lgtm.com/projects/g/libbpf/libbpf)
and [Coverity](https://scan.coverity.com/projects/libbpf).

Package dependencies of libbpf, package names may vary across distros:
- zlib
- libelf

[![libbpf distro packaging status](https://repology.org/badge/vertical-allrepos/libbpf.svg)](https://repology.org/project/libbpf/versions)

bpf-next to Github sync
==========

All the gory details of syncing can be found in `scripts/sync-kernel.sh`
script.
See SYNC.md for instruction.

Some header files in this repo (`include/linux/*.h`) are reduced versions of
their counterpart files at
[bpf-next](https://git.kernel.org/pub/scm/linux/kernel/git/bpf/bpf-next.git/)'s
`tools/include/linux/*.h` to make compilation successful.

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==========
3e9bc0472b910d4115e16e9c2d684c7757cb6c60
version: v1.0
name: Run Fossa Scan

agent:
 machine:
   type: f1-standard-2
   os_image: ubuntu2004

execution_time_limit:
 minutes: 30

blocks:
 - name: "Trigger Fossa Scan"
   skip:
     # Only run on master or release branches, not PRs.
     when: "(branch =~ 'master|release-.*') and (branch !~ '.+')"
   dependencies: []
   task:
     prologue:
       commands:
         - "curl -fsSLH 'Cache-Control: no-cache' https://raw.githubusercontent.com/fossas/fossa-cli/master/install-latest.sh | bash"
         - checkout
         - retry git fetch --unshallow
     jobs:
       - name: "FOSSA scan"
         commands:
           - fossa analyze
     secrets:
       - name: foss-api-key
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+

#
ctxinthandle_tptp/syscalls/sys_enter_write/home/vagrant/libbpf-bootstrap/examples/c/minimal.bpf.c int pid = bpf_get_current_pid_tgid() >> 32; if (pid != my_pid) bpf_printk("BPF triggered from PID %d.\n", pid);}char__ARRAY_SIZE_TYPE__LICENSEmy_pidhandle_tp.____fmt.bss.rodatalicense l/g4/g'4/
<(/<0/HX/TzR|hX
+hy0
,@P`p.text.rel.BTF.exthandle_tp.____fmt.bsshandle_tp.llvm_addrsig.reltp/syscalls/sys_enter_writelicense.rel.eh_framemy_pid.strtab.symtab.rodata.rel.BTFLICENSELBB0_2@G@hc
&S'o0C 0 p k x 5Lo
breathe
sphinx_rtd_theme
TEMPORARY
sockmap_listen/sockhash VSOCK test_vsock_redir
usdt/basic # failing verifier due to bounds check after LLVM update
usdt/multispec # same as above

deny_namespace # not yet in bpf denylist
tc_redirect/tc_redirect_dtime # very flaky
lru_bug # not yet in bpf-next denylist

Disabled temporarily for a crash.
https://lore.kernel.org/bpf/c9923c1d-971d-4022-8dc8-1364e929d34c@gmail.com/
dummy_st_ops/dummy_init_ptr_arg
fexit_bpf2bpf
tailcalls
trace_ext
xdp_bpf2bpf
xdp_metadata

```
DOXYFILE_ENCODING      = UTF-8
PROJECT_NAME           = "libbpf"
PROJECT_NUMBER         =
PROJECT_BRIEF          =
PROJECT_LOGO           =
OUTPUT_DIRECTORY       = ./build
CREATE_SUBDIRS         = NO
ALLOW_UNICODE_NAMES    = NO
OUTPUT_LANGUAGE        = English
OUTPUT_TEXT_DIRECTION  = None
BRIEF_MEMBER_DESC      = YES
REPEAT_BRIEF           = YES
ALWAYS_DETAILED_SEC    = NO
INLINE_INHERITED_MEMB  = NO
FULL_PATH_NAMES        = YES
STRIP_FROM_PATH        =
STRIP_FROM_INC_PATH    =
SHORT_NAMES            = NO
JAVADOC_AUTOBRIEF      = NO
JAVADOC_BANNER         = NO
QT_AUTOBRIEF           = NO
MULTILINE_CPP_IS_BRIEF = NO
PYTHON_DOCSTRING       = NO
INHERIT_DOCS           = YES
SEPARATE_MEMBER_PAGES  = NO
TAB_SIZE               = 4
ALIASES                =
OPTIMIZE_OUTPUT_FOR_C  = YES
OPTIMIZE_OUTPUT_JAVA   = NO
OPTIMIZE_FOR_FORTRAN   = NO
OPTIMIZE_OUTPUT_VHDL   = NO
OPTIMIZE_OUTPUT_SLICE  = NO
EXTENSION_MAPPING      =
MARKDOWN_SUPPORT       = YES
TOC_INCLUDE_HEADINGS   = 5
AUTOLINK_SUPPORT
      = YES
BUILTIN_STL_SUPPORT    = NO
CPP_CLI_SUPPORT        = NO
SIP_SUPPORT            = NO
IDL_PROPERTY_SUPPORT   = YES
DISTRIBUTE_GROUP_DOC   = NO
GROUP_NESTED_COMPOUNDS = NO
SUBGROUPING            = YES
INLINE_GROUPED_CLASSES = NO
INLINE_SIMPLE_STRUCTS  = NO
TYPEDEF_HIDES_STRUCT   = NO
LOOKUP_CACHE_SIZE      = 0
```

```
NUM_PROC_THREADS       = 1
EXTRACT_ALL            = NO
EXTRACT_PRIVATE        = NO
EXTRACT_PRIV_VIRTUAL   = NO
EXTRACT_PACKAGE        = NO
EXTRACT_STATIC         = NO
EXTRACT_LOCAL_CLASSES  = YES
EXTRACT_LOCAL_METHODS  = NO
EXTRACT_ANON_NSPACES   = NO
RESOLVE_UNNAMED_PARAMS = YES
HIDE_UNDOC_MEMBERS     = NO
HIDE_UNDOC_CLASSES     = NO
HIDE_FRIEND_COMPOUNDS  = NO
HIDE_IN_BODY_DOCS      = NO
INTERNAL_DOCS          = NO
CASE_SENSE_NAMES       = YES
HIDE_SCOPE_NAMES       = NO
HIDE_COMPOUND_REFERENCE= NO
SHOW_INCLUDE_FILES     = YES
SHOW_GROUPED_MEMB_INC  = NO
FORCE_LOCAL_INCLUDES   = NO
INLINE_INFO            = YES
SORT_MEMBER_DOCS       = YES
SORT_BRIEF_DOCS        = NO
SORT_MEMBERS_CTORS_1ST
 = NO
SORT_GROUP_NAMES       = NO
SORT_BY_SCOPE_NAME     = NO
STRICT_PROTO_MATCHING  = NO
GENERATE_TODOLIST      = YES
GENERATE_TESTLIST      = YES
GENERATE_BUGLIST       = YES
GENERATE_DEPRECATEDLIST= YES
ENABLED_SECTIONS       =
MAX_INITIALIZER_LINES  = 30
SHOW_USED_FILES        = YES
SHOW_FILES             = YES
SHOW_NAMESPACES        = YES
FILE_VERSION_FILTER    =
LAYOUT_FILE            =
CITE_BIB_FILES         =
QUIET                  = NO
WARNINGS               = YES
WARN_IF_UNDOCUMENTED   = YES
WARN_IF_DOC_ERROR      = YES
WARN_NO_PARAMDOC       = NO
WARN_AS_ERROR          = NO
WARN_FORMAT            = "$file:$line: $text"
```

```
WARN_LOGFILE           =
INPUT                  = ../../../src
INPUT_ENCODING         = UTF-8
FILE_PATTERNS          = *.c \
                         *.h
RECURSIVE              = NO
EXCLUDE                =
EXCLUDE_SYMLINKS       = NO
EXCLUDE_PATTERNS       =
EXCLUDE_SYMBOLS        = ___*
EXAMPLE_PATH           =
EXAMPLE_PATTERNS       = *
EXAMPLE_RECURSIVE
     = NO
IMAGE_PATH             =
INPUT_FILTER           =
FILTER_PATTERNS        =
FILTER_SOURCE_FILES    = NO
FILTER_SOURCE_PATTERNS =
USE_MDFILE_AS_MAINPAGE = YES
SOURCE_BROWSER         = NO
INLINE_SOURCES         = NO
STRIP_CODE_COMMENTS    = YES
REFERENCED_BY_RELATION = NO
REFERENCES_RELATION    = NO
REFERENCES_LINK_SOURCE = YES
SOURCE_TOOLTIPS        = YES
USE_HTAGS              = NO
VERBATIM_HEADERS       = YES
ALPHABETICAL_INDEX     = YES
IGNORE_PREFIX          =
GENERATE_HTML          = NO
HTML_OUTPUT            = html
HTML_FILE_EXTENSION    = .html
HTML_HEADER            =
HTML_FOOTER            =
HTML_STYLESHEET        =
HTML_EXTRA_STYLESHEET  =
HTML_EXTRA_FILES       =
HTML_COLORSTYLE_HUE    = 220
HTML_COLORSTYLE_SAT    = 100
HTML_COLORSTYLE_GAMMA  = 80
HTML_TIMESTAMP         = NO
HTML_DYNAMIC_MENUS     = YES
HTML_DYNAMIC_SECTIONS  = NO
HTML_INDEX_NUM_ENTRIES = 100
GENERATE_DOCSET        = NO
DOCSET_FEEDNAME        = "Doxygen generated docs"
```

```
DOCSET_BUNDLE_ID
      = org.doxygen.Project
DOCSET_PUBLISHER_ID    = org.doxygen.Publisher
DOCSET_PUBLISHER_NAME  = Publisher
GENERATE_HTMLHELP      = NO
CHM_FILE               =
HHC_LOCATION           =
GENERATE_CHI           = NO
CHM_INDEX_ENCODING     =
BINARY_TOC             = NO
TOC_EXPAND             = NO
GENERATE_QHP           = NO
QCH_FILE               =
QHP_NAMESPACE          = org.doxygen.Project
QHP_VIRTUAL_FOLDER     = doc
QHP_CUST_FILTER_NAME   =
QHP_CUST_FILTER_ATTRS  =
QHP_SECT_FILTER_ATTRS  =
QHG_LOCATION           =
GENERATE_ECLIPSEHELP   = NO
ECLIPSE_DOC_ID         = org.doxygen.Project
DISABLE_INDEX          = NO
GENERATE_TREEVIEW      = NO
ENUM_VALUES_PER_LINE   = 4
TREEVIEW_WIDTH         = 250
EXT_LINKS_IN_WINDOW    = NO
HTML_FORMULA_FORMAT    = png
FORMULA_FONTSIZE       = 10
FORMULA_TRANSPARENT    = YES
FORMULA_MACROFILE      =
USE_MATHJAX            = NO
MATHJAX_FORMAT         = HTML-CSS
MATHJAX_RELPATH        = https://cdn.jsdelivr.net/npm/mathjax@2
MATHJAX_EXTENSIONS
  =
MATHJAX_CODEFILE       =
SEARCHENGINE           = YES
SERVER_BASED_SEARCH    = NO
EXTERNAL_SEARCH        = NO
SEARCHENGINE_URL       =
SEARCHDATA_FILE        = searchdata.xml
EXTERNAL_SEARCH_ID     =
EXTRA_SEARCH_MAPPINGS  =
GENERATE_LATEX         = NO
LATEX_OUTPUT           = latex
LATEX_CMD_NAME         =
MAKEINDEX_CMD_NAME     = makeindex
LATEX_MAKEINDEX_CMD    = makeindex
```

```
COMPACT_LATEX         = NO
PAPER_TYPE            = a4
EXTRA_PACKAGES        =
LATEX_HEADER          =
LATEX_FOOTER          =
LATEX_EXTRA_STYLESHEET =
LATEX_EXTRA_FILES     =
PDF_HYPERLINKS        = YES
USE_PDFLATEX          = YES
LATEX_BATCHMODE       = NO
LATEX_HIDE_INDICES    = NO
LATEX_SOURCE_CODE     = NO
LATEX_BIB_STYLE       = plain
LATEX_TIMESTAMP       = NO
LATEX_EMOJI_DIRECTORY  =
GENERATE_RTF          = NO
RTF_OUTPUT            = rtf
COMPACT_RTF           = NO
RTF_HYPERLINKS        = NO
RTF_STYLESHEET_FILE    =
RTF_EXTENSIONS_FILE    =
RTF_SOURCE_CODE       = NO
GENERATE_MAN
   = NO
MAN_OUTPUT            = man
MAN_EXTENSION         = .3
MAN_SUBDIR            =
MAN_LINKS             = NO
GENERATE_XML          = YES
XML_OUTPUT            = xml
XML_PROGRAMLISTING    = YES
XML_NS_MEMB_FILE_SCOPE = NO
GENERATE_DOCBOOK      = NO
DOCBOOK_OUTPUT        = docbook
DOCBOOK_PROGRAMLISTING = NO
GENERATE_AUTOGEN_DEF   = NO
GENERATE_PERLMOD      = NO
PERLMOD_LATEX         = NO
PERLMOD_PRETTY        = YES
PERLMOD_MAKEVAR_PREFIX =
ENABLE_PREPROCESSING   = YES
MACRO_EXPANSION       = NO
EXPAND_ONLY_PREDEF    = YES
SEARCH_INCLUDES       = YES
INCLUDE_PATH          =
INCLUDE_FILE_PATTERNS  =
PREDEFINED            =
EXPAND_AS_DEFINED     =
```

```
SKIP_FUNCTION_MACROS   = NO
TAGFILES               =
GENERATE_TAGFILE       =
ALLEXTERNALS           = NO
EXTERNAL_GROUPS        = YES
EXTERNAL_PAGES         = YES
CLASS_DIAGRAMS         = YES
DIA_PATH               =
HIDE_UNDOC_RELATIONS   = YES
HAVE_DOT               = NO
DOT_NUM_THREADS        = 0
DOT_FONTNAME
 = Helvetica
DOT_FONTSIZE           = 10
DOT_FONTPATH           =
CLASS_GRAPH            = YES
COLLABORATION_GRAPH    = YES
GROUP_GRAPHS           = YES
UML_LOOK               = NO
UML_LIMIT_NUM_FIELDS   = 10
DOT_UML_DETAILS        = NO
DOT_WRAP_THRESHOLD     = 17
TEMPLATE_RELATIONS     = NO
INCLUDE_GRAPH          = YES
INCLUDED_BY_GRAPH      = YES
CALL_GRAPH             = NO
CALLER_GRAPH           = NO
GRAPHICAL_HIERARCHY    = YES
DIRECTORY_GRAPH        = YES
DOT_IMAGE_FORMAT       = png
INTERACTIVE_SVG        = NO
DOT_PATH               =
DOTFILE_DIRS           =
MSCFILE_DIRS           =
DIAFILE_DIRS           =
PLANTUML_JAR_PATH      =
PLANTUML_CFG_FILE      =
PLANTUML_INCLUDE_PATH  =
DOT_GRAPH_MAX_NODES    = 50
MAX_DOT_GRAPH_DEPTH    = 0
DOT_TRANSPARENT        = NO
DOT_MULTI_TARGETS      = NO
GENERATE_LEGEND        = YES
DOT_CLEANUP            = YES
009367099eb61a4fc2af44d4eb06b6b4de7de6db
LIBBPF_0.0.1 {
 global:
  bpf_btf_get_fd_by_id;
```

bpf_map__btf_key_type_id;
bpf_map__btf_value_type_id;
bpf_map__fd;
bpf_map__name;
bpf_map__pin;
bpf_map__reuse_fd;
bpf_map__set_ifindex;
bpf_map__set_inner_map_fd;
bpf_map__unpin;
bpf_map_delete_elem;
bpf_map_get_fd_by_id;
bpf_map_get_next_id;
bpf_map_get_next_key;
bpf_map_lookup_and_delete_elem;
bpf_map_lookup_elem;
bpf_map_update_elem;
bpf_obj_get;
bpf_obj_get_info_by_fd;
bpf_obj_pin;
bpf_object__btf_fd;
bpf_object__close;
bpf_object__find_map_by_name;
bpf_object__kversion;
bpf_object__load;
bpf_object__name;
bpf_object__open;
bpf_object__pin;
bpf_object__pin_maps;
bpf_object__pin_programs;
bpf_object__unpin_maps;
bpf_object__unpin_programs;
bpf_prog_attach;
bpf_prog_detach;
bpf_prog_detach2;
bpf_prog_get_fd_by_id;
bpf_prog_get_next_id;
bpf_prog_query;
bpf_program__fd;
bpf_program__pin;
bpf_program__set_expected_attach_type;
bpf_program__set_ifindex;
bpf_program__set_type;
bpf_program__unload;
bpf_program__unpin;
bpf_prog_linfo__free;
bpf_prog_linfo__new;
bpf_prog_linfo__lfind_addr_func;
bpf_prog_linfo__lfind;

```
  bpf_raw_tracepoint_open;
  bpf_task_fd_query;
  btf__fd;
  btf__find_by_name;
  btf__free;
  btf__name_by_offset;
  btf__new;
  btf__resolve_size;
  btf__resolve_type;
  btf__type_by_id;
  libbpf_attach_type_by_name;
  libbpf_get_error;
  libbpf_prog_type_by_name;
  libbpf_set_print;
  libbpf_strerror;
 local:
  *;
};

LIBBPF_0.0.2
 {
 global:
  bpf_map_lookup_elem_flags;
  bpf_object__btf;
  bpf_object__find_map_fd_by_name;
  btf__get_raw_data;
  btf_ext__free;
  btf_ext__get_raw_data;
  btf_ext__new;
} LIBBPF_0.0.1;

LIBBPF_0.0.3 {
 global:
  bpf_map__is_internal;
  bpf_map_freeze;
} LIBBPF_0.0.2;

LIBBPF_0.0.4 {
 global:
  bpf_link__destroy;
  bpf_program__attach_kprobe;
  bpf_program__attach_perf_event;
  bpf_program__attach_raw_tracepoint;
  bpf_program__attach_tracepoint;
  bpf_program__attach_uprobe;
  btf_dump__dump_type;
  btf_dump__free;
  btf__parse_elf;
```

```
  libbpf_num_possible_cpus;
  perf_buffer__free;
  perf_buffer__poll;
}
 LIBBPF_0.0.3;

LIBBPF_0.0.5 {
 global:
  bpf_btf_get_next_id;
} LIBBPF_0.0.4;

LIBBPF_0.0.6 {
 global:
  bpf_map__get_pin_path;
  bpf_map__is_pinned;
  bpf_map__set_pin_path;
  bpf_object__open_file;
  bpf_object__open_mem;
  bpf_program__attach_trace;
  bpf_program__get_expected_attach_type;
  bpf_program__get_type;
  btf__find_by_name_kind;
  libbpf_find_vmlinux_btf_id;
} LIBBPF_0.0.5;

LIBBPF_0.0.7 {
 global:
  btf_dump__emit_type_decl;
  bpf_link__disconnect;
  bpf_map__attach_struct_ops;
  bpf_map_delete_batch;
  bpf_map_lookup_and_delete_batch;
  bpf_map_lookup_batch;
  bpf_map_update_batch;
  bpf_object__find_program_by_name;
  bpf_object__attach_skeleton;
  bpf_object__destroy_skeleton;
  bpf_object__detach_skeleton;
  bpf_object__load_skeleton;
  bpf_object__open_skeleton;
  bpf_program__attach;
  bpf_program__name;
  btf__align_of;
  libbpf_find_kernel_btf;
}
 LIBBPF_0.0.6;

LIBBPF_0.0.8 {
```

```
 global:
  bpf_link__fd;
  bpf_link__open;
  bpf_link__pin;
  bpf_link__pin_path;
  bpf_link__unpin;
  bpf_link__update_program;
  bpf_link_create;
  bpf_link_update;
  bpf_map__set_initial_value;
  bpf_prog_attach_opts;
  bpf_program__attach_cgroup;
  bpf_program__attach_lsm;
  bpf_program__set_attach_target;
} LIBBPF_0.0.7;

LIBBPF_0.0.9 {
 global:
  bpf_enable_stats;
  bpf_iter_create;
  bpf_link_get_fd_by_id;
  bpf_link_get_next_id;
  bpf_program__attach_iter;
  bpf_program__attach_netns;
  perf_buffer__consume;
  ring_buffer__add;
  ring_buffer__consume;
  ring_buffer__free;
  ring_buffer__new;
  ring_buffer__poll;
} LIBBPF_0.0.8;

LIBBPF_0.1.0 {
 global:
  bpf_link__detach;
  bpf_link_detach;
  bpf_map__ifindex;
  bpf_map__key_size;
  bpf_map__map_flags;
  bpf_map__max_entries;
  bpf_map__numa_node;
  bpf_map__set_key_size;
  bpf_map__set_map_flags;
  bpf_map__set_max_entries;
  bpf_map__set_numa_node;
  bpf_map__set_type;
  bpf_map__set_value_size;
  bpf_map__type;
```

```
  bpf_map__value_size;
  bpf_program__attach_xdp;
  bpf_program__autoload;
  bpf_program__set_autoload;
  btf__parse;
  btf__parse_raw;
  btf__pointer_size;
  btf__set_fd;
  btf__set_pointer_size;
 }
 LIBBPF_0.0.9;

LIBBPF_0.2.0 {
 global:
  bpf_prog_bind_map;
  bpf_prog_test_run_opts;
  bpf_program__attach_freplace;
  bpf_program__section_name;
  btf__add_array;
  btf__add_const;
  btf__add_enum;
  btf__add_enum_value;
  btf__add_datasec;
  btf__add_datasec_var_info;
  btf__add_field;
  btf__add_func;
  btf__add_func_param;
  btf__add_func_proto;
  btf__add_fwd;
  btf__add_int;
  btf__add_ptr;
  btf__add_restrict;
  btf__add_str;
  btf__add_struct;
  btf__add_typedef;
  btf__add_union;
  btf__add_var;
  btf__add_volatile;
  btf__endianness;
  btf__find_str;
  btf__new_empty;
  btf__set_endianness;
  btf__str_by_offset;
  perf_buffer__buffer_cnt;
  perf_buffer__buffer_fd;
  perf_buffer__epoll_fd;
  perf_buffer__consume_buffer;
 } LIBBPF_0.1.0;
```

```
LIBBPF_0.3.0 {
 global:
  btf__base_btf;
  btf__parse_elf_split;
  btf__parse_raw_split;
  btf__parse_split;
  btf__new_empty_split;
  ring_buffer__epoll_fd;
}
 LIBBPF_0.2.0;

LIBBPF_0.4.0 {
 global:
  btf__add_float;
  btf__add_type;
  bpf_linker__add_file;
  bpf_linker__finalize;
  bpf_linker__free;
  bpf_linker__new;
  bpf_map__inner_map;
  bpf_object__set_kversion;
  bpf_tc_attach;
  bpf_tc_detach;
  bpf_tc_hook_create;
  bpf_tc_hook_destroy;
  bpf_tc_query;
} LIBBPF_0.3.0;

LIBBPF_0.5.0 {
 global:
  bpf_map__initial_value;
  bpf_map__pin_path;
  bpf_map_lookup_and_delete_elem_flags;
  bpf_program__attach_kprobe_opts;
  bpf_program__attach_perf_event_opts;
  bpf_program__attach_tracepoint_opts;
  bpf_program__attach_uprobe_opts;
  bpf_object__gen_loader;
  btf__load_from_kernel_by_id;
  btf__load_from_kernel_by_id_split;
  btf__load_into_kernel;
  btf__load_module_btf;
  btf__load_vmlinux_btf;
  btf_dump__dump_type_data;
  libbpf_set_strict_mode;
} LIBBPF_0.4.0;
```

```
LIBBPF_0.6.0 {
 global:
  bpf_map__map_extra;
  bpf_map__set_map_extra;
  bpf_map_create;
  bpf_object__next_map;
  bpf_object__next_program;
  bpf_object__prev_map;
  bpf_object__prev_program;
  bpf_prog_load;
  bpf_program__flags;
  bpf_program__insn_cnt;
  bpf_program__insns;
  bpf_program__set_flags;
  btf__add_btf;
  btf__add_decl_tag;
  btf__add_type_tag;
  btf__dedup;
  btf__raw_data;
  btf__type_cnt;
  btf_dump__new;
  libbpf_major_version;
  libbpf_minor_version;
  libbpf_version_string;
  perf_buffer__new;
  perf_buffer__new_raw;
}
 LIBBPF_0.5.0;

LIBBPF_0.7.0 {
 global:
  bpf_btf_load;
  bpf_program__expected_attach_type;
  bpf_program__log_buf;
  bpf_program__log_level;
  bpf_program__set_log_buf;
  bpf_program__set_log_level;
  bpf_program__type;
  bpf_xdp_attach;
  bpf_xdp_detach;
  bpf_xdp_query;
  bpf_xdp_query_id;
  libbpf_probe_bpf_helper;
  libbpf_probe_bpf_map_type;
  libbpf_probe_bpf_prog_type;
  libbpf_set_memlock_rlim;
} LIBBPF_0.6.0;
```

```
LIBBPF_0.8.0 {
 global:
  bpf_map__autocreate;
  bpf_map__get_next_key;
  bpf_map__delete_elem;
  bpf_map__lookup_and_delete_elem;
  bpf_map__lookup_elem;
  bpf_map__set_autocreate;
  bpf_map__update_elem;
  bpf_map_delete_elem_flags;
  bpf_object__destroy_subskeleton;
  bpf_object__open_subskeleton;
  bpf_program__attach_kprobe_multi_opts;
  bpf_program__attach_trace_opts;
  bpf_program__attach_usdt;
  bpf_program__set_insns;
  libbpf_register_prog_handler;
  libbpf_unregister_prog_handler;
}
 LIBBPF_0.7.0;

LIBBPF_1.0.0 {
 global:
  bpf_obj_get_opts;
  bpf_prog_query_opts;
  bpf_program__attach_ksyscall;
  bpf_program__autoattach;
  bpf_program__set_autoattach;
  btf__add_enum64;
  btf__add_enum64_value;
  libbpf_bpf_attach_type_str;
  libbpf_bpf_link_type_str;
  libbpf_bpf_map_type_str;
  libbpf_bpf_prog_type_str;
  perf_buffer__buffer;
} LIBBPF_0.8.0;

LIBBPF_1.1.0 {
 global:
  bpf_btf_get_fd_by_id_opts;
  bpf_link_get_fd_by_id_opts;
  bpf_map_get_fd_by_id_opts;
  bpf_prog_get_fd_by_id_opts;
  user_ring_buffer__discard;
  user_ring_buffer__free;
  user_ring_buffer__new;
  user_ring_buffer__reserve;
  user_ring_buffer__reserve_blocking;
```

```
  user_ring_buffer__submit;
}
 LIBBPF_1.0.0;

LIBBPF_1.2.0 {
 global:
  bpf_btf_get_info_by_fd;
  bpf_link__update_map;
  bpf_link_get_info_by_fd;
  bpf_map_get_info_by_fd;
  bpf_prog_get_info_by_fd;
} LIBBPF_1.1.0;

LIBBPF_1.3.0 {
 global:
  bpf_obj_pin_opts;
  bpf_object__unpin;
  bpf_prog_detach_opts;
  bpf_program__attach_netfilter;
  bpf_program__attach_netkit;
  bpf_program__attach_tcx;
  bpf_program__attach_uprobe_multi;
  ring__avail_data_size;
  ring__consume;
  ring__consumer_pos;
  ring__map_fd;
  ring__producer_pos;
  ring__size;
  ring_buffer__ring;
} LIBBPF_1.2.0;

LIBBPF_1.4.0 {
 global:
  bpf_program__attach_raw_tracepoint_opts;
  bpf_raw_tracepoint_open_opts;
  bpf_token_create;
  btf__new_split;
  btf_ext__raw_data;
} LIBBPF_1.3.0;

LIBBPF_1.5.0 {
 global:
  bpf_program__attach_sockmap;
  ring__consume_n;
  ring_buffer__consume_n;
} LIBBPF_1.4.0;
```

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Version 2.0, January 2004

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decap_sanity # weird failure with decap_sanity_ns netns already existing, TBD
empty_skb # waiting the fix in bpf tree to make it to bpf-next
bpf_nf/tc-bpf-ct # test consistently failing on x86: https://github.com/libbpf/libbpf/pull/698#issuecomment-1590341200
bpf_nf/xdp-ct # test consistently failing on x86: https://github.com/libbpf/libbpf/pull/698#issuecomment-1590341200
kprobe_multi_bench_attach # suspected to cause crashes in CI
find_vma # test consistently fails on latest kernel, see https://github.com/libbpf/libbpf/issues/754 for details
bpf_cookie/perf_event
send_signal/send_signal_nmi
send_signal/send_signal_nmi_thread

lwt_reroute # crashes kernel, fix pending upstream
tc_links_ingress # fails, same fix is pending upstream
tc_redirect # enough is enough, banned for life for flakiness
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<signature of Ty Coon>, 1 April 1989
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```
prefix=@PREFIX@
libdir=@LIBDIR@
includedir=${prefix}/include

Name: libbpf
Description: BPF library
Version: @VERSION@
Libs: -L${libdir} -lbpf
Requires.private: libelf zlib
Cflags: -I${includedir}
```

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<picture>
 <source media="(prefers-color-scheme: dark)" srcset="assets/libbpf-logo-sideways-darkbg.png" width="40%">
 <img src="assets/libbpf-logo-sideways.png" width="40%">
</picture>

Libbpf sync
==========

Libbpf *authoritative source code* is developed as part of [bpf-next Linux source tree](https://kernel.googlesource.com/pub/scm/linux/kernel/git/bpf/bpf-next) under `tools/lib/bpf` subdirectory and is periodically synced to Github.

Most of the mundane mechanical things like bpf and bpf-next tree merge, Git history transformation, cherry-picking relevant commits, re-generating auto-generated headers, etc. are taken care by [sync-kernel.sh script](https://github.com/libbpf/libbpf/blob/master/scripts/sync-kernel.sh). But occasionally human needs to do few extra things to make everything work nicely.

This document goes over the process of syncing libbpf sources from Linux repo to this Github repository. Feel free to contribute fixes and additions if you run into new problems not
 outlined here.

Setup expectations

Sync script has particular expectation of upstream Linux repo setup. It expects that current HEAD of that repo points to bpf-next's master branch and that there is a separate local branch pointing to bpf tree's master branch. This is important, as the script will automatically merge their histories for the purpose of libbpf sync.

Below, we assume that Linux repo is located at `~/linux`, it's current head is at latest `bpf-next/master`, and libbpf's Github repo is located at `~/libbpf`, checked out to latest commit on `master` branch. It doesn't matter from where to run `sync-kernel.sh` script, but we'll be running it from inside `~/libbpf`.

```
$ cd ~/linux && git remote -v | grep -E '^(bpf|bpf-next)'
bpf     https://git.kernel.org/pub/scm/linux/kernel/git/bpf/bpf.git (fetch)
bpf     ssh://git@gitolite.kernel.org/pub/scm/linux/kernel/git/bpf/bpf.git
(push)
bpf-next
https://git.kernel.org/pub/scm/linux/kernel/git/bpf/bpf-next.git
 (fetch)
bpf-next
```

```
ssh://git@gitolite.kernel.org/pub/scm/linux/kernel/git/bpf/bpf-next.git (push)
$ git branch -vv | grep -E '^? (master|bpf-master)'
* bpf-master                    2d311f480b52 [bpf/master] riscv, bpf: Fix patch_text implicit declaration
  master                        c8ee37bde402 [bpf-next/master] libbpf: Fix bpf_xdp_query() in old kernels
$ git checkout bpf-master && git pull && git checkout master && git pull
...
$ git log --oneline -n1
c8ee37bde402 (HEAD -> master, bpf-next/master) libbpf: Fix bpf_xdp_query() in old kernels
$ cd ~/libbpf && git checkout master && git pull
Your branch is up to date with 'libbpf/master'.
Already up to date.
```

Running setup script

First step is to always run `sync-kernel.sh` script. It expects three arguments:

```
$ scripts/sync-kernel.sh <libbpf-repo> <kernel-repo> <bpf-branch>
```

Note, that we'll store script's entire output in `/tmp/libbpf-sync.txt` and
put it into PR summary later
 on. **Please store scripts output and include it
in PR summary for others to check for anything unexpected and suspicious.**

```
$ scripts/sync-kernel.sh ~/libbpf ~/linux bpf-master | tee /tmp/libbpf-sync.txt
Dumping existing libbpf commit signatures...
WORKDIR:        /home/andriin/libbpf
LINUX REPO:     /home/andriin/linux
LIBBPF REPO:    /home/andriin/libbpf
...
```

Most of the time this will go very uneventful. One expected case when sync
script might require user intervention is if `bpf` tree has some libbpf fixes,
which is nowadays not a very frequent occurence. But if that happens, script
will show you a diff between expected state as of latest bpf-next and synced
Github repo state. And will ask if these changes look good. Please use your
best judgement to verify that differences are indeed from expected `bpf` tree
fixes. E.g., it might look like below:

```
Comparing list of files...
Comparing file contents...
--- /home/andriin/linux/include/uapi/linux/netdev.h     2023-02-27
```

```
 16:54:42.270583372 -0800
+++ /home/andriin/libbpf/include/uapi/linux/netdev.h    2023-02-27 16:54:34.615530796 -0800
@@ -19,7 +19,7 @@
 * @NETDEV_XDP_ACT_XSK_ZEROCOPY: This feature informs if netdev supports AF_XDP
 *   in zero copy mode.
 * @NETDEV_XDP_ACT_HW_OFFLOAD: This feature informs if netdev supports XDP hw
- *   oflloading.
+ *   offloading.
 * @NETDEV_XDP_ACT_RX_SG: This feature informs if netdev implements non-linear
 *   XDP buffer support in the driver napi callback.
 * @NETDEV_XDP_ACT_NDO_XMIT_SG: This feature informs if netdev implements
/home/andriin/linux/include/uapi/linux/netdev.h and /home/andriin/libbpf/include/uapi/linux/netdev.h are different!
Unfortunately, there are some inconsistencies, please double check.
Does everything look good? [y/N]:
```

If it looks sensible and expected, type `y` and script will proceed.

If sync is successful, your `~/linux` repo will be left in original state on
the original HEAD commit. `~/libbpf` repo will now be on a
 new branch, named
`libbpf-sync-<timestamp>` (e.g., `libbpf-sync-2023-02-28T00-53-40.072Z`).

Push this branch into your fork of `libbpf/libbpf` Github repo and create a PR:

```
$ git push --set-upstream origin libbpf-sync-2023-02-28T00-53-40.072Z
Enumerating objects: 130, done.
Counting objects: 100% (115/115), done.
Delta compression using up to 80 threads
Compressing objects: 100% (28/28), done.
Writing objects: 100% (32/32), 5.57 KiB | 1.86 MiB/s, done.
Total 32 (delta 21), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (21/21), completed with 9 local objects.
remote:
remote: Create a pull request for 'libbpf-sync-2023-02-28T00-53-40.072Z' on GitHub by visiting:
remote:      https://github.com/anakryiko/libbpf/pull/new/libbpf-sync-2023-02-28T00-53-40.072Z
remote:
To github.com:anakryiko/libbpf.git
* [new branch]              libbpf-sync-2023-02-28T00-53-40.072Z -> libbpf-sync-2023-02-28T00-53-40.072Z
Branch 'libbpf-sync-2023-02-28T00-53-40.072Z' set up to track
 remote branch 'libbpf-sync-2023-02-28T00-53-40.072Z' from 'origin'.
```

**Please, adjust PR name to have a properly looking timestamp. Libbpf
maintainers will be very thankful for that!**

By default Github will turn above branch name into PR with subject "Libbpf sync

2023 02 28 t00 53 40.072 z". Please fix this into a proper timestamp, e.g.:
"Libbpf sync 2023-02-28T00:53:40.072Z". Thank you!

**Please don't forget to paste contents of /tmp/libbpf-sync.txt into PR
summary!**

Once PR is created, libbpf CI will run a bunch of tests to check that
everything is good. In simple cases that would be all you'd need to do. In more
complicated cases some extra adjustments might be necessary.

Please, keep naming and style consistent. Prefix CI-related fixes with `ci: `
prefix. If you had to modify sync script, prefix it with `sync: `. Also make
sure that each such commit has `Signed-off-by: Your Full Name <your@email.com>`,
just like you'd do that for Linux upstream patch. Libbpf closely
follows kernel
conventions and styling, so please help maintaining that.

Including new sources

If entirely new source files (typically `*.c`) were added to the library in the
kernel repository, it may be necessary to add these to the build system
manually (you may notice linker errors otherwise), because the script cannot
handle such changes automatically. To that end, edit `src/Makefile` as
necessary. Commit
[c2495832ced4](https://github.com/libbpf/libbpf/commit/c2495832ced4239bcd376b9954db38a6addd89ca)
is an example of how to go about doing that.

Similarly, if new public API header files were added, the `Makefile` will need
to be adjusted as well.

Updating allow/deny lists

Libbpf CI intentionally runs a subset of latest BPF selftests on old kernel
(4.9 and 5.5, currently). It happens from time to time that some tests that
previously were successfully running on old kernels now don't, typically due to
reliance on some freshly added
kernel feature. It might look something like this in [CI
logs](https://github.com/libbpf/libbpf/actions/runs/4206303272/jobs/7299609578#step:4:2733):

```
All error logs:
serial_test_xdp_info:FAIL:get_xdp_none errno=2
#283     xdp_info:FAIL
Summary: 49/166 PASSED, 5 SKIPPED, 1 FAILED
```

In such case we can either work with upstream to fix test to be compatible with
old kernels, or we'll have to add a test into a denylist (or remove it from
allowlist, like was [done](https://github.com/libbpf/libbpf/commit/ea284299025bf85b85b4923191de6463cd43ccd6)
for the case above).

```
$ find . -name '*LIST*'
./ci/vmtest/configs/ALLOWLIST-4.9.0
./ci/vmtest/configs/DENYLIST-5.5.0
./ci/vmtest/configs/DENYLIST-latest.s390x
./ci/vmtest/configs/DENYLIST-latest
./ci/vmtest/configs/ALLOWLIST-5.5.0
```

Please determine which tests need to be added/removed from which list. And then
add that as a separate commit. **Please keep using the same branch name, so
that the same PR can be updated.** There
 is no need to open new PRs for each
such fix.

Regenerating vmlinux.h header

To compile latest BPF selftests against old kernels, we check in pre-generated
[vmlinux.h](https://github.com/libbpf/libbpf/blob/master/.github/actions/build-selftests/vmlinux.h)
header file, located at `.github/actions/build-selftests/vmlinux.h`, which
contains type definitions from latest upstream kernel. When after libbpf sync
upstream BPF selftests require new kernel types, we'd need to regenerate
`vmlinux.h` and check it in as well.

This will looks something like this in [CI
logs](https://github.com/libbpf/libbpf/actions/runs/4198939244/jobs/7283214243#step:4:1903):

```
 In file included from progs/test_spin_lock_fail.c:5:
 /home/runner/work/libbpf/libbpf/.kernel/tools/testing/selftests/bpf/bpf_experimental.h:73:53: error: declaration of
'struct bpf_rb_root' will not be visible outside of this function [-Werror,-Wvisibility]
 extern struct bpf_rb_node *bpf_rbtree_remove(struct
 bpf_rb_root *root,
                                                ^
 /home/runner/work/libbpf/libbpf/.kernel/tools/testing/selftests/bpf/bpf_experimental.h:81:35: error: declaration of
'struct bpf_rb_root' will not be visible outside of this function [-Werror,-Wvisibility]
 extern void bpf_rbtree_add(struct bpf_rb_root *root, struct bpf_rb_node *node,
                                   ^
 /home/runner/work/libbpf/libbpf/.kernel/tools/testing/selftests/bpf/bpf_experimental.h:90:52: error: declaration of
'struct bpf_rb_root' will not be visible outside of this function [-Werror,-Wvisibility]
 extern struct bpf_rb_node *bpf_rbtree_first(struct bpf_rb_root *root) __ksym;
                                                ^
```

```
 3 errors generated.
 make: *** [Makefile:572:
/home/runner/work/libbpf/libbpf/.kernel/tools/testing/selftests/bpf/test_spin_lock_fail.bpf.o] Error 1
 make: *** Waiting for unfinished jobs....
 Error: Process completed with exit code 2.
```

You'll
 need to build latest upstream kernel from `bpf-next` tree, using BPF
selftest configs. Concat arch-agnostic and arch-specific configs, build kernel,
then use bpftool to dump `vmlinux.h`:

```
$ cd ~/linux
$ cat tools/testing/selftests/bpf/config \
  tools/testing/selftests/bpf/config.x86_64 > .config
$ make -j$(nproc) olddefconfig all
...
$ bpftool btf dump file ~/linux/vmlinux format c > ~/libbpf/.github/actions/build-selftests/vmlinux.h
$ cd ~/libbpf && git add . && git commit -s
```

Check in generated `vmlinux.h`, don't forget to use `ci: ` commit prefix, add
it on top of sync commits. Push to Github and let libbpf CI do the checking for
you. See [this commit](https://github.com/libbpf/libbpf/commit/34212c94a64df8eeb1dd5d064630a65e1dfd4c20)
for reference.

Troubleshooting

If something goes wrong and sync script exits early or is terminated early by
user, you might end up with `~/linux` repo on temporary sync-related branch.
Don't worry, though, sync script never
 destroys repo state, it follows
"copy-on-write" philosophy and creates new branches where necessary. So it's
very easy to restore previous state. So if anything goes wrong, it's easy to
start fresh:

```
$ git branch | grep -E 'libbpf-.*Z'
 libbpf-baseline-2023-02-28T00-43-35.146Z
 libbpf-bpf-baseline-2023-02-28T00-43-35.146Z
 libbpf-bpf-tip-2023-02-28T00-43-35.146Z
 libbpf-squash-base-2023-02-28T00-43-35.146Z
* libbpf-squash-tip-2023-02-28T00-43-35.146Z
$ git cherry-pick --abort
$ git checkout master && git branch | grep -E 'libbpf-.*Z' | xargs git br -D
Switched to branch 'master'
```

```
Your branch is up to date with 'bpf-next/master'.
Deleted branch libbpf-baseline-2023-02-28T00-43-35.146Z (was 951bce29c898).
Deleted branch libbpf-bpf-baseline-2023-02-28T00-43-35.146Z (was 3a70e0d4c9d7).
Deleted branch libbpf-bpf-tip-2023-02-28T00-43-35.146Z (was 2d311f480b52).
Deleted branch libbpf-squash-base-2023-02-28T00-43-35.146Z (was 957f109ef883).
Deleted branch libbpf-squash-tip-2023-02-28T00-43-35.146Z
 (was be66130d2339).
Deleted branch libbpf-tip-2023-02-28T00-43-35.146Z (was 2d311f480b52).
```

You might need to do the same for your `~/libbpf` repo sometimes, depending at which stage sync script was terminated.

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1.4455 mergo v1.0.0

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fields:
  site: string
  author: root

1.4456 libguestfs 1.46.1-4ubuntu2

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entire combination fits its criteria of freedom. The Lesser General
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the library.

We call this license the "Lesser" General Public License because it
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of an advantage over competing non-free programs. These disadvantages
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special circumstances.

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the free library to free
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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the work with the complete corresponding
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with the Library, with the complete machine-readable "work that
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user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate
properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
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distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
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1.4457 libcalico-go v3.29.1

1.4457.1 Available under license :

```
# TEMPORARY
btf_dump/btf_dump: syntax
kprobe_multi_bench_attach
core_reloc/enum64val
core_reloc/size___diff_sz
core_reloc/type_based___diff_sz
test_ima # All of CI is broken on it following 6.3-rc1 merge

lwt_reroute      # crashes kernel after netnext merge from 2ab1efad60ad "net/sched: cls_api: complement tcf_tfilter_dump_policy"
tc_links_ingress # started failing after net-next merge from 2ab1efad60ad "net/sched: cls_api: complement tcf_tfilter_dump_policy"
xdp_bonding/xdp_bonding_features     # started failing after net merge from 359e54a93ab4 "l2tp: pass correct message length to ip6_append_data"
tc_redirect/tc_redirect_dtime # uapi breakage after net-next commit 885c36e59f46 ("net: Re-use and set mono_delivery_time bit for userspace tstamp packets")
migrate_reuseport/IPv4 TCP_NEW_SYN_RECV reqsk_timer_handler # flaky, under investigation
migrate_reuseport/IPv6 TCP_NEW_SYN_RECV reqsk_timer_handler # flaky, under investigation
<picture>
 <source media="(prefers-color-scheme: dark)" srcset="assets/libbpf-logo-sideways-darkbg.png" width="40%">
 <img src="assets/libbpf-logo-sideways.png" width="40%">
</picture>

libbpf
[![Github Actions Builds & Tests](https://github.com/libbpf/libbpf/actions/workflows/test.yml/badge.svg)](https://github.com/libbpf/libbpf/actions/workflows/test.yml)
[![Coverity](https://img.shields.io/coverity/scan/18195.svg)](https://scan.coverity.com/projects/libbpf)
[![CodeQL](https://github.com/libbpf/libbpf/workflows/CodeQL/badge.svg?branch=master)](https://github.com/libbpf/libbpf/actions?query=workflow%3ACodeQL+branch%3Amaster)
[![OSS-Fuzz Status](https://oss-fuzz-build-logs.storage.googleapis.com/badges/libbpf.svg)](https://oss-fuzz-build-logs.storage.googleapis.com/index.html#libbpf)
[![Read the Docs](https://readthedocs.org/projects/libbpf/badge/?version=latest)](https://libbpf.readthedocs.io/en/latest/)
======

**This is the official home of the libbpf library.**
```

*Please use this Github
 repository for building and packaging libbpf
and when using it in your projects through Git submodule.*

Libbpf *authoritative source code* is developed as part of [bpf-next Linux source
tree](https://kernel.googlesource.com/pub/scm/linux/kernel/git/bpf/bpf-next) under
`tools/lib/bpf` subdirectory and is periodically synced to Github. As such, all the
libbpf changes should be sent to [BPF mailing list](http://vger.kernel.org/vger-lists.html#bpf),
please don't open PRs here unless you are changing Github-specific parts of libbpf
(e.g., Github-specific Makefile).

Libbpf and general BPF usage questions
==========

Libbpf documentation can be found [here](https://libbpf.readthedocs.io/en/latest/api.html).
It's an ongoing effort and has ways to go, but please take a look and consider contributing as well.

Please check out [libbpf-bootstrap](https://github.com/libbpf/libbpf-bootstrap)
and [the companion blog post](https://nakryiko.com/posts/libbpf-bootstrap/)
 for
the examples of building BPF applications with libbpf.
[libbpf-tools](https://github.com/iovisor/bcc/tree/master/libbpf-tools) are also
a good source of the real-world libbpf-based tracing tools.

See also ["BPF CO-RE reference guide"](https://nakryiko.com/posts/bpf-core-reference-guide/)
for the coverage of practical aspects of building BPF CO-RE applications and
["BPF CO-RE"](https://nakryiko.com/posts/bpf-portability-and-co-re/) for
general introduction into BPF portability issues and BPF CO-RE origins.

All general BPF questions, including kernel functionality, libbpf APIs and
their application, should be sent to bpf@vger.kernel.org mailing list. You can
subscribe to it [here](http://vger.kernel.org/vger-lists.html#bpf) and search
its archive [here](https://lore.kernel.org/bpf/). Please search the archive
before asking new questions. It very well might be that this was already
addressed or answered before.

bpf@vger.kernel.org is monitored by many more people and they will
 happily try
to help you with whatever issue you have. This repository's PRs and issues
should be opened only for dealing with issues pertaining to specific way this
libbpf mirror repo is set up and organized.

Building libbpf
==========
libelf is an internal dependency of libbpf and thus it is required to link
against and must be installed on the system for applications to work.
pkg-config is used by default to find libelf, and the program called can be

overridden with `PKG_CONFIG`.

If using `pkg-config` at build time is not desired, it can be disabled by
setting `NO_PKG_CONFIG=1` when calling make.

To build both static libbpf.a and shared libbpf.so:
```bash
$ cd src
$ make
```

To build only static libbpf.a library in directory
build/ and install them together with libbpf headers in a staging directory
root/:
```bash
$ cd src
$ mkdir build root
$ BUILD_STATIC_ONLY=y OBJDIR=build DESTDIR=root make install
```

To build both static libbpf.a and shared libbpf.so against a custom libelf
dependency
 installed in /build/root/ and install them together with libbpf
headers in a build directory /build/root/:
```bash
$ cd src
$ PKG_CONFIG_PATH=/build/root/lib64/pkgconfig DESTDIR=/build/root make install
```

BPF CO-RE (Compile Once Run Everywhere)
==========

Libbpf supports building BPF CO-RE-enabled applications, which, in contrast to
[BCC](https://github.com/iovisor/bcc/), do not require Clang/LLVM runtime
being deployed to target servers and doesn't rely on kernel-devel headers
being available.

It does rely on kernel to be built with [BTF type
information](https://www.kernel.org/doc/html/latest/bpf/btf.html), though.
Some major Linux distributions come with kernel BTF already built in:
 - Fedora 31+
 - RHEL 8.2+
 - OpenSUSE Tumbleweed (in the next release, as of 2020-06-04)
 - Arch Linux (from kernel 5.7.1.arch1-1)
 - Manjaro (from kernel 5.4 if compiled after 2021-06-18)
 - Ubuntu 20.10
 - Debian 11 (amd64/arm64)

If your kernel
 doesn't come with BTF built-in, you'll need to build custom
kernel. You'll need:
 - `pahole` 1.16+ tool (part of `dwarves` package), which performs DWARF to
   BTF conversion;
 - kernel built with `CONFIG_DEBUG_INFO_BTF=y` option;
 - you can check if your kernel has BTF built-in by looking for
   `/sys/kernel/btf/vmlinux` file:

```shell
$ ls -la /sys/kernel/btf/vmlinux
-r--r--r--. 1 root root 3541561 Jun  2 18:16 /sys/kernel/btf/vmlinux
```

To develop and build BPF programs, you'll need Clang/LLVM 10+. The following
distributions have Clang/LLVM 10+ packaged by default:
 - Fedora 32+
 - Ubuntu 20.04+
 - Arch Linux
 - Ubuntu 20.10 (LLVM 11)
 - Debian 11 (LLVM 11)
 - Alpine 3.13+

Otherwise, please make sure to update it on your system.

The following resources are useful to understand what BPF CO-RE is and how to
use it:
- [BPF CO-RE reference guide](https://nakryiko.com/posts/bpf-core-reference-guide/)
- [BPF Portability and CO-RE](https://nakryiko.com/posts/bpf-portability-and-co-re/)
-
 [HOWTO: BCC to libbpf conversion](https://nakryiko.com/posts/bcc-to-libbpf-howto-guide/)
- [libbpf-tools in BCC repo](https://github.com/iovisor/bcc/tree/master/libbpf-tools)
 contain lots of real-world tools converted from BCC to BPF CO-RE. Consider
 converting some more to both contribute to the BPF community and gain some
 more experience with it.

Distributions
==========

Distributions packaging libbpf from this mirror:
 - [Fedora](https://src.fedoraproject.org/rpms/libbpf)
 - [Gentoo](https://packages.gentoo.org/packages/dev-libs/libbpf)
 - [Debian](https://packages.debian.org/source/sid/libbpf)
 - [Arch](https://archlinux.org/packages/core/x86_64/libbpf/)
 - [Ubuntu](https://packages.ubuntu.com/source/jammy/libbpf)
 - [Alpine](https://pkgs.alpinelinux.org/packages?name=libbpf)

Benefits of packaging from the mirror over packaging from kernel sources:

- Consistent versioning across distributions.
- No ties to any specific kernel, transparent
handling of older kernels.
  Libbpf is designed to be kernel-agnostic and work across multitude of
  kernel versions. It has built-in mechanisms to gracefully handle older
  kernels, that are missing some of the features, by working around or
  gracefully degrading functionality. Thus libbpf is not tied to a specific
  kernel version and can/should be packaged and versioned independently.
- Continuous integration testing via
  [GitHub Actions](https://github.com/libbpf/libbpf/actions).
- Static code analysis via [LGTM](https://lgtm.com/projects/g/libbpf/libbpf)
  and [Coverity](https://scan.coverity.com/projects/libbpf).

Package dependencies of libbpf, package names may vary across distros:
- zlib
- libelf

[![libbpf distro packaging status](https://repology.org/badge/vertical-
allrepos/libbpf.svg)](https://repology.org/project/libbpf/versions)

bpf-next to Github sync
==========

All the gory details of syncing can be found in `scripts/sync-kernel.sh`
script.
 See SYNC.md for instruction.

Some header files in this repo (`include/linux/*.h`) are reduced versions of
their counterpart files at
[bpf-next](https://git.kernel.org/pub/scm/linux/kernel/git/bpf/bpf-next.git/)'s
`tools/include/linux/*.h` to make compilation successful.

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==========
3e9bc0472b910d4115e16e9c2d684c7757cb6c60
version: v1.0
name: Run Fossa Scan

agent:
 machine:
   type: f1-standard-2
   os_image: ubuntu2004

execution_time_limit:
 minutes: 30

blocks:
 - name: "Trigger Fossa Scan"
   skip:
     # Only run on master or release branches, not PRs.
     when: "(branch =~ 'master|release-.*') and (branch !~ '.+')"
   dependencies: []
   task:
     prologue:
       commands:
         - "curl -fsSLH 'Cache-Control: no-cache' https://raw.githubusercontent.com/fossas/fossa-cli/master/install-latest.sh | bash"
         - checkout
         - retry git fetch --unshallow
     jobs:
       - name: "FOSSA scan"
         commands:
           - fossa analyze

secrets:
- name: foss-api-key

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limitations under the License.
ELF@@@w a]Dual BSD/GPLBPF triggered from PID %d.
+

#
ctxinthandle_tptp/syscalls/sys_enter_write/home/vagrant/libbpf-bootstrap/examples/c/minimal.bpf.c int pid =
bpf_get_current_pid_tgid() >> 32; if (pid != my_pid) bpf_printk("BPF triggered from PID %d.\n",
pid);}char__ARRAY_SIZE_TYPE__LICENSEmy_pidhandle_tp.____fmt.bss.rodatalicense l/g4/g'4/
<(/<0/HX/TzR|hX
+hy0
,@P`p.text.rel.BTF.exthandle_tp.____fmt.bsshandle_tp.llvm_addrsig.reltp/syscalls/sys_enter_writelicense.rel.eh_fra
memy_pid.strtab.symtab.rodata.rel.BTFLICENSELBB0_2@G@hc
&S'o0C 0 p k x 5Lo
TEMPORARY
sockmap_listen/sockhash VSOCK test_vsock_redir
usdt/basic # failing verifier due to bounds check after LLVM update
usdt/multispec # same as above

deny_namespace # not yet in bpf denylist
tc_redirect/tc_redirect_dtime # very flaky
lru_bug # not yet in bpf-next denylist

Disabled temporarily for a crash.
https://lore.kernel.org/bpf/c9923c1d-971d-4022-8dc8-1364e929d34c@gmail.com/
dummy_st_ops/dummy_init_ptr_arg
fexit_bpf2bpf
tailcalls

```
trace_ext
xdp_bpf2bpf
xdp_metadata
breathe
sphinx_rtd_theme
DOXYFILE_ENCODING      = UTF-8
PROJECT_NAME           = "libbpf"
PROJECT_NUMBER         =
PROJECT_BRIEF          =
PROJECT_LOGO           =
OUTPUT_DIRECTORY       = ./build
CREATE_SUBDIRS         = NO
ALLOW_UNICODE_NAMES    = NO
OUTPUT_LANGUAGE        = English
OUTPUT_TEXT_DIRECTION  = None
BRIEF_MEMBER_DESC      = YES
REPEAT_BRIEF           = YES
ALWAYS_DETAILED_SEC    = NO
INLINE_INHERITED_MEMB  = NO
FULL_PATH_NAMES        = YES
STRIP_FROM_PATH        =
STRIP_FROM_INC_PATH    =
SHORT_NAMES            = NO
JAVADOC_AUTOBRIEF      = NO
JAVADOC_BANNER         = NO
QT_AUTOBRIEF           = NO
MULTILINE_CPP_IS_BRIEF = NO
PYTHON_DOCSTRING       = NO
INHERIT_DOCS           = YES
SEPARATE_MEMBER_PAGES  = NO
TAB_SIZE               = 4
ALIASES                =
OPTIMIZE_OUTPUT_FOR_C  = YES
OPTIMIZE_OUTPUT_JAVA   = NO
OPTIMIZE_FOR_FORTRAN   = NO
OPTIMIZE_OUTPUT_VHDL   = NO
OPTIMIZE_OUTPUT_SLICE  = NO
EXTENSION_MAPPING      =
MARKDOWN_SUPPORT       = YES
TOC_INCLUDE_HEADINGS   = 5
AUTOLINK_SUPPORT
      = YES
BUILTIN_STL_SUPPORT    = NO
CPP_CLI_SUPPORT        = NO
SIP_SUPPORT            = NO
IDL_PROPERTY_SUPPORT   = YES
DISTRIBUTE_GROUP_DOC   = NO
GROUP_NESTED_COMPOUNDS = NO
```

```
SUBGROUPING            = YES
INLINE_GROUPED_CLASSES = NO
INLINE_SIMPLE_STRUCTS  = NO
TYPEDEF_HIDES_STRUCT   = NO
LOOKUP_CACHE_SIZE      = 0
NUM_PROC_THREADS       = 1
EXTRACT_ALL            = NO
EXTRACT_PRIVATE        = NO
EXTRACT_PRIV_VIRTUAL   = NO
EXTRACT_PACKAGE        = NO
EXTRACT_STATIC         = NO
EXTRACT_LOCAL_CLASSES  = YES
EXTRACT_LOCAL_METHODS  = NO
EXTRACT_ANON_NSPACES   = NO
RESOLVE_UNNAMED_PARAMS = YES
HIDE_UNDOC_MEMBERS     = NO
HIDE_UNDOC_CLASSES     = NO
HIDE_FRIEND_COMPOUNDS  = NO
HIDE_IN_BODY_DOCS      = NO
INTERNAL_DOCS          = NO
CASE_SENSE_NAMES       = YES
HIDE_SCOPE_NAMES       = NO
HIDE_COMPOUND_REFERENCE= NO
SHOW_INCLUDE_FILES     = YES
SHOW_GROUPED_MEMB_INC  = NO
FORCE_LOCAL_INCLUDES   = NO
INLINE_INFO            = YES
SORT_MEMBER_DOCS       = YES
SORT_BRIEF_DOCS        = NO
SORT_MEMBERS_CTORS_1ST
 = NO
SORT_GROUP_NAMES       = NO
SORT_BY_SCOPE_NAME     = NO
STRICT_PROTO_MATCHING  = NO
GENERATE_TODOLIST      = YES
GENERATE_TESTLIST      = YES
GENERATE_BUGLIST       = YES
GENERATE_DEPRECATEDLIST= YES
ENABLED_SECTIONS       =
MAX_INITIALIZER_LINES  = 30
SHOW_USED_FILES        = YES
SHOW_FILES             = YES
SHOW_NAMESPACES        = YES
FILE_VERSION_FILTER    =
LAYOUT_FILE            =
CITE_BIB_FILES         =
QUIET                  = NO
WARNINGS               = YES
```

```
WARN_IF_UNDOCUMENTED   = YES
WARN_IF_DOC_ERROR      = YES
WARN_NO_PARAMDOC       = NO
WARN_AS_ERROR          = NO
WARN_FORMAT            = "$file:$line: $text"
WARN_LOGFILE           =
INPUT                  = ../../../src
INPUT_ENCODING         = UTF-8
FILE_PATTERNS          = *.c \
                         *.h
RECURSIVE              = NO
EXCLUDE                =
EXCLUDE_SYMLINKS       = NO
EXCLUDE_PATTERNS       =
EXCLUDE_SYMBOLS        = ___*
EXAMPLE_PATH           =
EXAMPLE_PATTERNS       = *
EXAMPLE_RECURSIVE
     = NO
IMAGE_PATH             =
INPUT_FILTER           =
FILTER_PATTERNS        =
FILTER_SOURCE_FILES    = NO
FILTER_SOURCE_PATTERNS =
USE_MDFILE_AS_MAINPAGE = YES
SOURCE_BROWSER         = NO
INLINE_SOURCES         = NO
STRIP_CODE_COMMENTS    = YES
REFERENCED_BY_RELATION = NO
REFERENCES_RELATION    = NO
REFERENCES_LINK_SOURCE = YES
SOURCE_TOOLTIPS        = YES
USE_HTAGS              = NO
VERBATIM_HEADERS       = YES
ALPHABETICAL_INDEX     = YES
IGNORE_PREFIX          =
GENERATE_HTML          = NO
HTML_OUTPUT            = html
HTML_FILE_EXTENSION    = .html
HTML_HEADER            =
HTML_FOOTER            =
HTML_STYLESHEET        =
HTML_EXTRA_STYLESHEET  =
HTML_EXTRA_FILES       =
HTML_COLORSTYLE_HUE    = 220
HTML_COLORSTYLE_SAT    = 100
HTML_COLORSTYLE_GAMMA  = 80
HTML_TIMESTAMP         = NO
```

```
HTML_DYNAMIC_MENUS     = YES
HTML_DYNAMIC_SECTIONS  = NO
HTML_INDEX_NUM_ENTRIES = 100
GENERATE_DOCSET        = NO
DOCSET_FEEDNAME        = "Doxygen generated docs"
DOCSET_BUNDLE_ID
       = org.doxygen.Project
DOCSET_PUBLISHER_ID    = org.doxygen.Publisher
DOCSET_PUBLISHER_NAME  = Publisher
GENERATE_HTMLHELP      = NO
CHM_FILE               =
HHC_LOCATION           =
GENERATE_CHI           = NO
CHM_INDEX_ENCODING     =
BINARY_TOC             = NO
TOC_EXPAND             = NO
GENERATE_QHP           = NO
QCH_FILE               =
QHP_NAMESPACE          = org.doxygen.Project
QHP_VIRTUAL_FOLDER     = doc
QHP_CUST_FILTER_NAME   =
QHP_CUST_FILTER_ATTRS  =
QHP_SECT_FILTER_ATTRS  =
QHG_LOCATION           =
GENERATE_ECLIPSEHELP   = NO
ECLIPSE_DOC_ID         = org.doxygen.Project
DISABLE_INDEX          = NO
GENERATE_TREEVIEW      = NO
ENUM_VALUES_PER_LINE   = 4
TREEVIEW_WIDTH         = 250
EXT_LINKS_IN_WINDOW    = NO
HTML_FORMULA_FORMAT    = png
FORMULA_FONTSIZE       = 10
FORMULA_TRANSPARENT    = YES
FORMULA_MACROFILE      =
USE_MATHJAX            = NO
MATHJAX_FORMAT         = HTML-CSS
MATHJAX_RELPATH        = https://cdn.jsdelivr.net/npm/mathjax@2
MATHJAX_EXTENSIONS
  =
MATHJAX_CODEFILE       =
SEARCHENGINE           = YES
SERVER_BASED_SEARCH    = NO
EXTERNAL_SEARCH        = NO
SEARCHENGINE_URL       =
SEARCHDATA_FILE        = searchdata.xml
EXTERNAL_SEARCH_ID     =
EXTRA_SEARCH_MAPPINGS  =
```

```
GENERATE_LATEX         = NO
LATEX_OUTPUT           = latex
LATEX_CMD_NAME         =
MAKEINDEX_CMD_NAME     = makeindex
LATEX_MAKEINDEX_CMD    = makeindex
COMPACT_LATEX          = NO
PAPER_TYPE             = a4
EXTRA_PACKAGES         =
LATEX_HEADER           =
LATEX_FOOTER           =
LATEX_EXTRA_STYLESHEET =
LATEX_EXTRA_FILES      =
PDF_HYPERLINKS         = YES
USE_PDFLATEX           = YES
LATEX_BATCHMODE        = NO
LATEX_HIDE_INDICES     = NO
LATEX_SOURCE_CODE      = NO
LATEX_BIB_STYLE        = plain
LATEX_TIMESTAMP        = NO
LATEX_EMOJI_DIRECTORY  =
GENERATE_RTF           = NO
RTF_OUTPUT             = rtf
COMPACT_RTF            = NO
RTF_HYPERLINKS         = NO
RTF_STYLESHEET_FILE    =
RTF_EXTENSIONS_FILE    =
RTF_SOURCE_CODE        = NO
GENERATE_MAN
   = NO
MAN_OUTPUT             = man
MAN_EXTENSION          = .3
MAN_SUBDIR             =
MAN_LINKS              = NO
GENERATE_XML           = YES
XML_OUTPUT             = xml
XML_PROGRAMLISTING     = YES
XML_NS_MEMB_FILE_SCOPE = NO
GENERATE_DOCBOOK       = NO
DOCBOOK_OUTPUT         = docbook
DOCBOOK_PROGRAMLISTING = NO
GENERATE_AUTOGEN_DEF   = NO
GENERATE_PERLMOD       = NO
PERLMOD_LATEX          = NO
PERLMOD_PRETTY         = YES
PERLMOD_MAKEVAR_PREFIX =
ENABLE_PREPROCESSING   = YES
MACRO_EXPANSION        = NO
EXPAND_ONLY_PREDEF     = YES
```

```
SEARCH_INCLUDES        = YES
INCLUDE_PATH           =
INCLUDE_FILE_PATTERNS  =
PREDEFINED             =
EXPAND_AS_DEFINED      =
SKIP_FUNCTION_MACROS   = NO
TAGFILES               =
GENERATE_TAGFILE       =
ALLEXTERNALS           = NO
EXTERNAL_GROUPS        = YES
EXTERNAL_PAGES         = YES
CLASS_DIAGRAMS         = YES
DIA_PATH               =
HIDE_UNDOC_RELATIONS   = YES
HAVE_DOT               = NO
DOT_NUM_THREADS        = 0
DOT_FONTNAME
 = Helvetica
DOT_FONTSIZE           = 10
DOT_FONTPATH           =
CLASS_GRAPH            = YES
COLLABORATION_GRAPH    = YES
GROUP_GRAPHS           = YES
UML_LOOK               = NO
UML_LIMIT_NUM_FIELDS   = 10
DOT_UML_DETAILS        = NO
DOT_WRAP_THRESHOLD     = 17
TEMPLATE_RELATIONS     = NO
INCLUDE_GRAPH          = YES
INCLUDED_BY_GRAPH      = YES
CALL_GRAPH             = NO
CALLER_GRAPH           = NO
GRAPHICAL_HIERARCHY    = YES
DIRECTORY_GRAPH        = YES
DOT_IMAGE_FORMAT       = png
INTERACTIVE_SVG        = NO
DOT_PATH               =
DOTFILE_DIRS           =
MSCFILE_DIRS           =
DIAFILE_DIRS           =
PLANTUML_JAR_PATH      =
PLANTUML_CFG_FILE      =
PLANTUML_INCLUDE_PATH  =
DOT_GRAPH_MAX_NODES    = 50
MAX_DOT_GRAPH_DEPTH    = 0
DOT_TRANSPARENT        = NO
DOT_MULTI_TARGETS      = NO
GENERATE_LEGEND        = YES
```

```
DOT_CLEANUP            = YES
009367099eb61a4fc2af44d4eb06b6b4de7de6db
LIBBPF_0.0.1 {
 global:
  bpf_btf_get_fd_by_id;
  bpf_map__btf_key_type_id;
  bpf_map__btf_value_type_id;
  bpf_map__fd;
  bpf_map__name;
  bpf_map__pin;
  bpf_map__reuse_fd;
  bpf_map__set_ifindex;
  bpf_map__set_inner_map_fd;
  bpf_map__unpin;
  bpf_map_delete_elem;
  bpf_map_get_fd_by_id;
  bpf_map_get_next_id;
  bpf_map_get_next_key;
  bpf_map_lookup_and_delete_elem;
  bpf_map_lookup_elem;
  bpf_map_update_elem;
  bpf_obj_get;
  bpf_obj_get_info_by_fd;
  bpf_obj_pin;
  bpf_object__btf_fd;
  bpf_object__close;
  bpf_object__find_map_by_name;
  bpf_object__kversion;
  bpf_object__load;
  bpf_object__name;
  bpf_object__open;
  bpf_object__pin;
  bpf_object__pin_maps;
  bpf_object__pin_programs;
  bpf_object__unpin_maps;
  bpf_object__unpin_programs;
  bpf_prog_attach;
  bpf_prog_detach;
  bpf_prog_detach2;
  bpf_prog_get_fd_by_id;
  bpf_prog_get_next_id;
  bpf_prog_query;
  bpf_program__fd;
  bpf_program__pin;
  bpf_program__set_expected_attach_type;
  bpf_program__set_ifindex;
  bpf_program__set_type;
  bpf_program__unload;
```

```
  bpf_program__unpin;
  bpf_prog_linfo__free;
  bpf_prog_linfo__new;
  bpf_prog_linfo__lfind_addr_func;
  bpf_prog_linfo__lfind;
  bpf_raw_tracepoint_open;
  bpf_task_fd_query;
  btf__fd;
  btf__find_by_name;
  btf__free;
  btf__name_by_offset;
  btf__new;
  btf__resolve_size;
  btf__resolve_type;
  btf__type_by_id;
  libbpf_attach_type_by_name;
  libbpf_get_error;
  libbpf_prog_type_by_name;
  libbpf_set_print;
  libbpf_strerror;
 local:
  *;
};

LIBBPF_0.0.2
 {
 global:
  bpf_map_lookup_elem_flags;
  bpf_object__btf;
  bpf_object__find_map_fd_by_name;
  btf__get_raw_data;
  btf_ext__free;
  btf_ext__get_raw_data;
  btf_ext__new;
} LIBBPF_0.0.1;

LIBBPF_0.0.3 {
 global:
  bpf_map__is_internal;
  bpf_map_freeze;
} LIBBPF_0.0.2;

LIBBPF_0.0.4 {
 global:
  bpf_link__destroy;
  bpf_program__attach_kprobe;
  bpf_program__attach_perf_event;
  bpf_program__attach_raw_tracepoint;
```

```
  bpf_program__attach_tracepoint;
  bpf_program__attach_uprobe;
  btf_dump__dump_type;
  btf_dump__free;
  btf__parse_elf;
  libbpf_num_possible_cpus;
  perf_buffer__free;
  perf_buffer__poll;
}
 LIBBPF_0.0.3;

LIBBPF_0.0.5 {
 global:
  bpf_btf_get_next_id;
} LIBBPF_0.0.4;

LIBBPF_0.0.6 {
 global:
  bpf_map__get_pin_path;
  bpf_map__is_pinned;
  bpf_map__set_pin_path;
  bpf_object__open_file;
  bpf_object__open_mem;
  bpf_program__attach_trace;
  bpf_program__get_expected_attach_type;
  bpf_program__get_type;
  btf__find_by_name_kind;
  libbpf_find_vmlinux_btf_id;
} LIBBPF_0.0.5;

LIBBPF_0.0.7 {
 global:
  btf_dump__emit_type_decl;
  bpf_link__disconnect;
  bpf_map__attach_struct_ops;
  bpf_map_delete_batch;
  bpf_map_lookup_and_delete_batch;
  bpf_map_lookup_batch;
  bpf_map_update_batch;
  bpf_object__find_program_by_name;
  bpf_object__attach_skeleton;
  bpf_object__destroy_skeleton;
  bpf_object__detach_skeleton;
  bpf_object__load_skeleton;
  bpf_object__open_skeleton;
  bpf_program__attach;
  bpf_program__name;
  btf__align_of;
```

```
  libbpf_find_kernel_btf;
}
 LIBBPF_0.0.6;

LIBBPF_0.0.8 {
 global:
  bpf_link__fd;
  bpf_link__open;
  bpf_link__pin;
  bpf_link__pin_path;
  bpf_link__unpin;
  bpf_link__update_program;
  bpf_link_create;
  bpf_link_update;
  bpf_map__set_initial_value;
  bpf_prog_attach_opts;
  bpf_program__attach_cgroup;
  bpf_program__attach_lsm;
  bpf_program__set_attach_target;
} LIBBPF_0.0.7;

LIBBPF_0.0.9 {
 global:
  bpf_enable_stats;
  bpf_iter_create;
  bpf_link_get_fd_by_id;
  bpf_link_get_next_id;
  bpf_program__attach_iter;
  bpf_program__attach_netns;
  perf_buffer__consume;
  ring_buffer__add;
  ring_buffer__consume;
  ring_buffer__free;
  ring_buffer__new;
  ring_buffer__poll;
} LIBBPF_0.0.8;

LIBBPF_0.1.0 {
 global:
  bpf_link__detach;
  bpf_link_detach;
  bpf_map__ifindex;
  bpf_map__key_size;
  bpf_map__map_flags;
  bpf_map__max_entries;
  bpf_map__numa_node;
  bpf_map__set_key_size;
  bpf_map__set_map_flags;
```

```
  bpf_map__set_max_entries;
  bpf_map__set_numa_node;
  bpf_map__set_type;
  bpf_map__set_value_size;
  bpf_map__type;
  bpf_map__value_size;
  bpf_program__attach_xdp;
  bpf_program__autoload;
  bpf_program__set_autoload;
  btf__parse;
  btf__parse_raw;
  btf__pointer_size;
  btf__set_fd;
  btf__set_pointer_size;
}
 LIBBPF_0.0.9;

LIBBPF_0.2.0 {
 global:
  bpf_prog_bind_map;
  bpf_prog_test_run_opts;
  bpf_program__attach_freplace;
  bpf_program__section_name;
  btf__add_array;
  btf__add_const;
  btf__add_enum;
  btf__add_enum_value;
  btf__add_datasec;
  btf__add_datasec_var_info;
  btf__add_field;
  btf__add_func;
  btf__add_func_param;
  btf__add_func_proto;
  btf__add_fwd;
  btf__add_int;
  btf__add_ptr;
  btf__add_restrict;
  btf__add_str;
  btf__add_struct;
  btf__add_typedef;
  btf__add_union;
  btf__add_var;
  btf__add_volatile;
  btf__endianness;
  btf__find_str;
  btf__new_empty;
  btf__set_endianness;
  btf__str_by_offset;
```

```
  perf_buffer__buffer_cnt;
  perf_buffer__buffer_fd;
  perf_buffer__epoll_fd;
  perf_buffer__consume_buffer;
} LIBBPF_0.1.0;

LIBBPF_0.3.0 {
 global:
  btf__base_btf;
  btf__parse_elf_split;
  btf__parse_raw_split;
  btf__parse_split;
  btf__new_empty_split;
  ring_buffer__epoll_fd;
}
 LIBBPF_0.2.0;

LIBBPF_0.4.0 {
 global:
  btf__add_float;
  btf__add_type;
  bpf_linker__add_file;
  bpf_linker__finalize;
  bpf_linker__free;
  bpf_linker__new;
  bpf_map__inner_map;
  bpf_object__set_kversion;
  bpf_tc_attach;
  bpf_tc_detach;
  bpf_tc_hook_create;
  bpf_tc_hook_destroy;
  bpf_tc_query;
} LIBBPF_0.3.0;

LIBBPF_0.5.0 {
 global:
  bpf_map__initial_value;
  bpf_map__pin_path;
  bpf_map_lookup_and_delete_elem_flags;
  bpf_program__attach_kprobe_opts;
  bpf_program__attach_perf_event_opts;
  bpf_program__attach_tracepoint_opts;
  bpf_program__attach_uprobe_opts;
  bpf_object__gen_loader;
  btf__load_from_kernel_by_id;
  btf__load_from_kernel_by_id_split;
  btf__load_into_kernel;
  btf__load_module_btf;
```

```
  btf__load_vmlinux_btf;
  btf_dump__dump_type_data;
  libbpf_set_strict_mode;
} LIBBPF_0.4.0;

LIBBPF_0.6.0 {
 global:
  bpf_map__map_extra;
  bpf_map__set_map_extra;
  bpf_map_create;
  bpf_object__next_map;
  bpf_object__next_program;
  bpf_object__prev_map;
  bpf_object__prev_program;
  bpf_prog_load;
  bpf_program__flags;
  bpf_program__insn_cnt;
  bpf_program__insns;
  bpf_program__set_flags;
  btf__add_btf;
  btf__add_decl_tag;
  btf__add_type_tag;
  btf__dedup;
  btf__raw_data;
  btf__type_cnt;
  btf_dump__new;
  libbpf_major_version;
  libbpf_minor_version;
  libbpf_version_string;
  perf_buffer__new;
  perf_buffer__new_raw;
}
 LIBBPF_0.5.0;

LIBBPF_0.7.0 {
 global:
  bpf_btf_load;
  bpf_program__expected_attach_type;
  bpf_program__log_buf;
  bpf_program__log_level;
  bpf_program__set_log_buf;
  bpf_program__set_log_level;
  bpf_program__type;
  bpf_xdp_attach;
  bpf_xdp_detach;
  bpf_xdp_query;
  bpf_xdp_query_id;
  libbpf_probe_bpf_helper;
```

```
  libbpf_probe_bpf_map_type;
  libbpf_probe_bpf_prog_type;
  libbpf_set_memlock_rlim;
} LIBBPF_0.6.0;

LIBBPF_0.8.0 {
 global:
  bpf_map__autocreate;
  bpf_map__get_next_key;
  bpf_map__delete_elem;
  bpf_map__lookup_and_delete_elem;
  bpf_map__lookup_elem;
  bpf_map__set_autocreate;
  bpf_map__update_elem;
  bpf_map_delete_elem_flags;
  bpf_object__destroy_subskeleton;
  bpf_object__open_subskeleton;
  bpf_program__attach_kprobe_multi_opts;
  bpf_program__attach_trace_opts;
  bpf_program__attach_usdt;
  bpf_program__set_insns;
  libbpf_register_prog_handler;
  libbpf_unregister_prog_handler;
}
 LIBBPF_0.7.0;

LIBBPF_1.0.0 {
 global:
  bpf_obj_get_opts;
  bpf_prog_query_opts;
  bpf_program__attach_ksyscall;
  bpf_program__autoattach;
  bpf_program__set_autoattach;
  btf__add_enum64;
  btf__add_enum64_value;
  libbpf_bpf_attach_type_str;
  libbpf_bpf_link_type_str;
  libbpf_bpf_map_type_str;
  libbpf_bpf_prog_type_str;
  perf_buffer__buffer;
} LIBBPF_0.8.0;

LIBBPF_1.1.0 {
 global:
  bpf_btf_get_fd_by_id_opts;
  bpf_link_get_fd_by_id_opts;
  bpf_map_get_fd_by_id_opts;
  bpf_prog_get_fd_by_id_opts;
```

```
  user_ring_buffer__discard;
  user_ring_buffer__free;
  user_ring_buffer__new;
  user_ring_buffer__reserve;
  user_ring_buffer__reserve_blocking;
  user_ring_buffer__submit;
}
 LIBBPF_1.0.0;

LIBBPF_1.2.0 {
 global:
  bpf_btf_get_info_by_fd;
  bpf_link__update_map;
  bpf_link_get_info_by_fd;
  bpf_map_get_info_by_fd;
  bpf_prog_get_info_by_fd;
} LIBBPF_1.1.0;

LIBBPF_1.3.0 {
 global:
  bpf_obj_pin_opts;
  bpf_object__unpin;
  bpf_prog_detach_opts;
  bpf_program__attach_netfilter;
  bpf_program__attach_netkit;
  bpf_program__attach_tcx;
  bpf_program__attach_uprobe_multi;
  ring__avail_data_size;
  ring__consume;
  ring__consumer_pos;
  ring__map_fd;
  ring__producer_pos;
  ring__size;
  ring_buffer__ring;
} LIBBPF_1.2.0;

LIBBPF_1.4.0 {
 global:
  bpf_program__attach_raw_tracepoint_opts;
  bpf_raw_tracepoint_open_opts;
  bpf_token_create;
  btf__new_split;
  btf_ext__raw_data;
} LIBBPF_1.3.0;

LIBBPF_1.5.0 {
 global:
  bpf_program__attach_sockmap;
```

ring__consume_n;
ring_buffer__consume_n;
} LIBBPF_1.4.0;
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decap_sanity # weird failure with decap_sanity_ns netns already existing, TBD
empty_skb # waiting the fix in bpf tree to make it to bpf-next
bpf_nf/tc-bpf-ct # test consistently failing on x86: https://github.com/libbpf/libbpf/pull/698#issuecomment-1590341200
bpf_nf/xdp-ct   # test consistently failing on x86: https://github.com/libbpf/libbpf/pull/698#issuecomment-1590341200
kprobe_multi_bench_attach # suspected to cause crashes in CI
find_vma # test consistently fails on latest kernel, see https://github.com/libbpf/libbpf/issues/754 for details
bpf_cookie/perf_event
send_signal/send_signal_nmi
send_signal/send_signal_nmi_thread

lwt_reroute # crashes kernel, fix pending upstream
tc_links_ingress # fails, same fix is pending upstream
tc_redirect   # enough is enough, banned for life for flakiness

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Corresponding Source conveyed, and Installation Information provided,

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POSSIBILITY OF SUCH DAMAGE.
The sample BIRD configuration in this directory is distributed under
GPLv3. See the file COPYING-v3 for details.
<picture>
<source media="(prefers-color-scheme: dark)" srcset="assets/libbpf-logo-sideways-darkbg.png" width="40%">
<img src="assets/libbpf-logo-sideways.png" width="40%">
</picture>

Libbpf sync
==========

Libbpf *authoritative source code* is developed as part of [bpf-next Linux source
tree](https://kernel.googlesource.com/pub/scm/linux/kernel/git/bpf/bpf-next) under
`tools/lib/bpf` subdirectory and is periodically synced to Github.

Most of the mundane mechanical things like bpf and bpf-next tree merge, Git
history transformation, cherry-picking relevant commits, re-generating
auto-generated headers, etc. are taken care by
[sync-kernel.sh script](https://github.com/libbpf/libbpf/blob/master/scripts/sync-kernel.sh).
But occasionally human needs to do few extra things to make everything work
nicely.

This document goes over the process of syncing libbpf sources from Linux repo
to this Github repository. Feel free to contribute fixes and additions if you
run into new problems not
outlined here.

Setup expectations

Sync script has particular expectation of upstream Linux repo setup. It
expects that current HEAD of that repo points to bpf-next's master branch and
that there is a separate local branch pointing to bpf tree's master branch.
This is important, as the script will automatically merge their histories for
the purpose of libbpf sync.

Below, we assume that Linux repo is located at `~/linux`, it's current head is
at latest `bpf-next/master`, and libbpf's Github repo is located at
`~/libbpf`, checked out to latest commit on `master` branch. It doesn't matter
from where to run `sync-kernel.sh` script, but we'll be running it from inside
`~/libbpf`.

```
$ cd ~/linux && git remote -v | grep -E '^(bpf|bpf-next)'
bpf     https://git.kernel.org/pub/scm/linux/kernel/git/bpf/bpf.git (fetch)
bpf     ssh://git@gitolite.kernel.org/pub/scm/linux/kernel/git/bpf/bpf.git
```

```
(push)
bpf-next
https://git.kernel.org/pub/scm/linux/kernel/git/bpf/bpf-next.git
 (fetch)
bpf-next
ssh://git@gitolite.kernel.org/pub/scm/linux/kernel/git/bpf/bpf-next.git (push)
$ git branch -vv | grep -E '^? (master|bpf-master)'
* bpf-master                    2d311f480b52 [bpf/master] riscv, bpf: Fix patch_text implicit declaration
  master                        c8ee37bde402 [bpf-next/master] libbpf: Fix bpf_xdp_query() in old kernels
$ git checkout bpf-master && git pull && git checkout master && git pull
...
$ git log --oneline -n1
c8ee37bde402 (HEAD -> master, bpf-next/master) libbpf: Fix bpf_xdp_query() in old kernels
$ cd ~/libbpf && git checkout master && git pull
Your branch is up to date with 'libbpf/master'.
Already up to date.
```

Running setup script

First step is to always run `sync-kernel.sh` script. It expects three arguments:

```
$ scripts/sync-kernel.sh <libbpf-repo> <kernel-repo> <bpf-branch>
```

Note, that we'll store script's entire output in `/tmp/libbpf-sync.txt` and
put it into PR summary later
 on. **Please store scripts output and include it
in PR summary for others to check for anything unexpected and suspicious.**

```
$ scripts/sync-kernel.sh ~/libbpf ~/linux bpf-master | tee /tmp/libbpf-sync.txt
Dumping existing libbpf commit signatures...
WORKDIR:        /home/andriin/libbpf
LINUX REPO:     /home/andriin/linux
LIBBPF REPO:    /home/andriin/libbpf
...
```

Most of the time this will go very uneventful. One expected case when sync
script might require user intervention is if `bpf` tree has some libbpf fixes,
which is nowadays not a very frequent occurence. But if that happens, script
will show you a diff between expected state as of latest bpf-next and synced
Github repo state. And will ask if these changes look good. Please use your
best judgement to verify that differences are indeed from expected `bpf` tree
fixes. E.g., it might look like below:

```
Comparing list of files...
Comparing file contents...
--- /home/andriin/linux/include/uapi/linux/netdev.h     2023-02-27
 16:54:42.270583372 -0800
+++ /home/andriin/libbpf/include/uapi/linux/netdev.h    2023-02-27 16:54:34.615530796 -0800
@@ -19,7 +19,7 @@
 * @NETDEV_XDP_ACT_XSK_ZEROCOPY: This feature informs if netdev supports AF_XDP
 *   in zero copy mode.
 * @NETDEV_XDP_ACT_HW_OFFLOAD: This feature informs if netdev supports XDP hw
- *   oflloading.
+ *   offloading.
 * @NETDEV_XDP_ACT_RX_SG: This feature informs if netdev implements non-linear
 *   XDP buffer support in the driver napi callback.
 * @NETDEV_XDP_ACT_NDO_XMIT_SG: This feature informs if netdev implements
/home/andriin/linux/include/uapi/linux/netdev.h and /home/andriin/libbpf/include/uapi/linux/netdev.h are different!
Unfortunately, there are some inconsistencies, please double check.
Does everything look good? [y/N]:
```

If it looks sensible and expected, type `y` and script will proceed.

If sync is successful, your `~/linux` repo will be left in original state on
the original HEAD commit. `~/libbpf` repo will now be on a
 new branch, named
`libbpf-sync-<timestamp>` (e.g., `libbpf-sync-2023-02-28T00-53-40.072Z`).

Push this branch into your fork of `libbpf/libbpf` Github repo and create a PR:

```
$ git push --set-upstream origin libbpf-sync-2023-02-28T00-53-40.072Z
Enumerating objects: 130, done.
Counting objects: 100% (115/115), done.
Delta compression using up to 80 threads
Compressing objects: 100% (28/28), done.
Writing objects: 100% (32/32), 5.57 KiB | 1.86 MiB/s, done.
Total 32 (delta 21), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (21/21), completed with 9 local objects.
remote:
remote: Create a pull request for 'libbpf-sync-2023-02-28T00-53-40.072Z' on GitHub by visiting:
remote:      https://github.com/anakryiko/libbpf/pull/new/libbpf-sync-2023-02-28T00-53-40.072Z
remote:
To github.com:anakryiko/libbpf.git
* [new branch]              libbpf-sync-2023-02-28T00-53-40.072Z -> libbpf-sync-2023-02-28T00-53-40.072Z
Branch 'libbpf-sync-2023-02-28T00-53-40.072Z' set up to track
 remote branch 'libbpf-sync-2023-02-28T00-53-40.072Z' from 'origin'.
```

Please, adjust PR name to have a properly looking timestamp. Libbpf maintainers will be very thankful for that!

By default Github will turn above branch name into PR with subject "Libbpf sync 2023 02 28 t00 53 40.072 z". Please fix this into a proper timestamp, e.g.: "Libbpf sync 2023-02-28T00:53:40.072Z". Thank you!

Please don't forget to paste contents of /tmp/libbpf-sync.txt into PR summary!

Once PR is created, libbpf CI will run a bunch of tests to check that everything is good. In simple cases that would be all you'd need to do. In more complicated cases some extra adjustments might be necessary.

Please, keep naming and style consistent. Prefix CI-related fixes with `ci: ` prefix. If you had to modify sync script, prefix it with `sync: `. Also make sure that each such commit has `Signed-off-by: Your Full Name <your@email.com>`, just like you'd do that for Linux upstream patch. Libbpf closely follows kernel conventions and styling, so please help maintaining that.

Including new sources

If entirely new source files (typically `*.c`) were added to the library in the kernel repository, it may be necessary to add these to the build system manually (you may notice linker errors otherwise), because the script cannot handle such changes automatically. To that end, edit `src/Makefile` as necessary. Commit [c2495832ced4](https://github.com/libbpf/libbpf/commit/c2495832ced4239bcd376b9954db38a6addd89ca) is an example of how to go about doing that.

Similarly, if new public API header files were added, the `Makefile` will need to be adjusted as well.

Updating allow/deny lists

Libbpf CI intentionally runs a subset of latest BPF selftests on old kernel (4.9 and 5.5, currently). It happens from time to time that some tests that previously were successfully running on old kernels now don't, typically due to reliance on some freshly added kernel feature. It might look something like this in [CI logs](https://github.com/libbpf/libbpf/actions/runs/4206303272/jobs/7299609578#step:4:2733):

```
All error logs:
```

```
 serial_test_xdp_info:FAIL:get_xdp_none errno=2
 #283     xdp_info:FAIL
 Summary: 49/166 PASSED, 5 SKIPPED, 1 FAILED
```

In such case we can either work with upstream to fix test to be compatible with
old kernels, or we'll have to add a test into a denylist (or remove it from
allowlist, like was [done](https://github.com/libbpf/libbpf/commit/ea284299025bf85b85b4923191de6463cd43ccd6)
for the case above).

```
$ find . -name '*LIST*'
./ci/vmtest/configs/ALLOWLIST-4.9.0
./ci/vmtest/configs/DENYLIST-5.5.0
./ci/vmtest/configs/DENYLIST-latest.s390x
./ci/vmtest/configs/DENYLIST-latest
./ci/vmtest/configs/ALLOWLIST-5.5.0
```

Please determine which tests need to be added/removed from which list. And then
add that as a separate commit. **Please keep using the same branch name, so
that the same PR can be updated.** There
 is no need to open new PRs for each
such fix.

Regenerating vmlinux.h header

To compile latest BPF selftests against old kernels, we check in pre-generated
[vmlinux.h](https://github.com/libbpf/libbpf/blob/master/.github/actions/build-selftests/vmlinux.h)
header file, located at `.github/actions/build-selftests/vmlinux.h`, which
contains type definitions from latest upstream kernel. When after libbpf sync
upstream BPF selftests require new kernel types, we'd need to regenerate
`vmlinux.h` and check it in as well.

This will looks something like this in [CI
logs](https://github.com/libbpf/libbpf/actions/runs/4198939244/jobs/7283214243#step:4:1903):

```
 In file included from progs/test_spin_lock_fail.c:5:
 /home/runner/work/libbpf/libbpf/.kernel/tools/testing/selftests/bpf/bpf_experimental.h:73:53: error: declaration of
'struct bpf_rb_root' will not be visible outside of this function [-Werror,-Wvisibility]
 extern struct bpf_rb_node *bpf_rbtree_remove(struct
 bpf_rb_root *root,
                                              ^
 /home/runner/work/libbpf/libbpf/.kernel/tools/testing/selftests/bpf/bpf_experimental.h:81:35: error: declaration of
'struct bpf_rb_root' will not be visible outside of this function [-Werror,-Wvisibility]
 extern void bpf_rbtree_add(struct bpf_rb_root *root, struct bpf_rb_node *node,
```

```
                                ^
 /home/runner/work/libbpf/libbpf/.kernel/tools/testing/selftests/bpf/bpf_experimental.h:90:52: error: declaration of
'struct bpf_rb_root' will not be visible outside of this function [-Werror,-Wvisibility]
 extern struct bpf_rb_node *bpf_rbtree_first(struct bpf_rb_root *root) __ksym;
                                                    ^
 3 errors generated.
 make: *** [Makefile:572:
/home/runner/work/libbpf/libbpf/.kernel/tools/testing/selftests/bpf/test_spin_lock_fail.bpf.o] Error 1
 make: *** Waiting for unfinished jobs....
 Error: Process completed with exit code 2.
```

You'll
 need to build latest upstream kernel from `bpf-next` tree, using BPF
selftest configs. Concat arch-agnostic and arch-specific configs, build kernel,
then use bpftool to dump `vmlinux.h`:

```
$ cd ~/linux
$ cat tools/testing/selftests/bpf/config \
  tools/testing/selftests/bpf/config.x86_64 > .config
$ make -j$(nproc) olddefconfig all
...
$ bpftool btf dump file ~/linux/vmlinux format c > ~/libbpf/.github/actions/build-selftests/vmlinux.h
$ cd ~/libbpf && git add . && git commit -s
```

Check in generated `vmlinux.h`, don't forget to use `ci: ` commit prefix, add
it on top of sync commits. Push to Github and let libbpf CI do the checking for
you. See [this commit](https://github.com/libbpf/libbpf/commit/34212c94a64df8eeb1dd5d064630a65e1dfd4c20)
for reference.

Troubleshooting

If something goes wrong and sync script exits early or is terminated early by
user, you might end up with `~/linux` repo on temporary sync-related branch.
Don't worry, though, sync script never
 destroys repo state, it follows
"copy-on-write" philosophy and creates new branches where necessary. So it's
very easy to restore previous state. So if anything goes wrong, it's easy to
start fresh:

```
$ git branch | grep -E 'libbpf-.*Z'
 libbpf-baseline-2023-02-28T00-43-35.146Z
 libbpf-bpf-baseline-2023-02-28T00-43-35.146Z
 libbpf-bpf-tip-2023-02-28T00-43-35.146Z
```

```
 libbpf-squash-base-2023-02-28T00-43-35.146Z
* libbpf-squash-tip-2023-02-28T00-43-35.146Z
$ git cherry-pick --abort
$ git checkout master && git branch | grep -E 'libbpf-.*Z' | xargs git br -D
Switched to branch 'master'
Your branch is up to date with 'bpf-next/master'.
Deleted branch libbpf-baseline-2023-02-28T00-43-35.146Z (was 951bce29c898).
Deleted branch libbpf-bpf-baseline-2023-02-28T00-43-35.146Z (was 3a70e0d4c9d7).
Deleted branch libbpf-bpf-tip-2023-02-28T00-43-35.146Z (was 2d311f480b52).
Deleted branch libbpf-squash-base-2023-02-28T00-43-35.146Z (was 957f109ef883).
Deleted branch libbpf-squash-tip-2023-02-28T00-43-35.146Z
 (was be66130d2339).
Deleted branch libbpf-tip-2023-02-28T00-43-35.146Z (was 2d311f480b52).
```

You might need to do the same for your `~/libbpf` repo sometimes, depending at which stage sync script was terminated.

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}
```

```
const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
 SevNewDefault  = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

 // The following statuses are used for selecting/filtering notifications
 SevAll = "all" // show all statuses
)
```

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==========
The common/types/pb/equal.go modification of proto.Equal logic
==========
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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
}

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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==========
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```
package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
```

```
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
 SevNewDefault  = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not
present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

 // The following statuses are used for selecting/filtering notifications
 SevAll = "all" // show all statuses
)
```

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==========
The common/types/pb/equal.go modification of proto.Equal logic
==========
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package spec

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```
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
```
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==========
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```
package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
```

```
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
 SevNewDefault  = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not
present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

 // The following statuses are used for selecting/filtering notifications
 SevAll = "all" // show all statuses
)
```

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==========
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 URL string `json:"url,omitempty"`
}
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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The common/types/pb/equal.go modification of proto.Equal logic
==========
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 "context"
 "errors"
 "fmt"
 azfake "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake/server"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
 "net/http"
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 "regexp"
)

// LicensesServer is a fake server for instances of the armhybridcompute.LicensesClient type.
type LicensesServer struct {
 // BeginCreateOrUpdate is the fake for method LicensesClient.BeginCreateOrUpdate
 // HTTP status codes to indicate success:
 http.StatusOK
 BeginCreateOrUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
armhybridcompute.License, options *armhybridcompute.LicensesClientBeginCreateOrUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse], errResp
azfake.ErrorResponder)

 // BeginDelete is the fake for method LicensesClient.BeginDelete
 // HTTP status codes to indicate success: http.StatusOK, http.StatusNoContent
 BeginDelete func(ctx context.Context, resourceGroupName string, licenseName string, options
```

```
*armhybridcompute.LicensesClientBeginDeleteOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse], errResp azfake.ErrorResponder)

 // Get is the fake for method LicensesClient.Get
 // HTTP status codes to indicate success: http.StatusOK
 Get func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientGetOptions) (resp
azfake.Responder[armhybridcompute.LicensesClientGetResponse],
 errResp azfake.ErrorResponder)

 // NewListByResourceGroupPager is the fake for method LicensesClient.NewListByResourceGroupPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListByResourceGroupPager func(resourceGroupName string, options
*armhybridcompute.LicensesClientListByResourceGroupOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse])

 // NewListBySubscriptionPager is the fake for method LicensesClient.NewListBySubscriptionPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListBySubscriptionPager func(options *armhybridcompute.LicensesClientListBySubscriptionOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse])

 // BeginUpdate is the fake for method LicensesClient.BeginUpdate
 // HTTP status codes to indicate success: http.StatusOK
 BeginUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
 armhybridcompute.LicenseUpdate, options *armhybridcompute.LicensesClientBeginUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse], errResp azfake.ErrorResponder)

 // BeginValidateLicense is the fake for method LicensesClient.BeginValidateLicense
 // HTTP status codes to indicate success: http.StatusOK
 BeginValidateLicense func(ctx context.Context, parameters armhybridcompute.License, options
*armhybridcompute.LicensesClientBeginValidateLicenseOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse], errResp
azfake.ErrorResponder)
}

// NewLicensesServerTransport creates a new instance of LicensesServerTransport with the provided
implementation.
// The returned LicensesServerTransport instance is connected to an instance of armhybridcompute.LicensesClient
via the
// azcore.ClientOptions.Transporter field in the client's constructor parameters.
func NewLicensesServerTransport(srv *LicensesServer) *LicensesServerTransport
 {
 return &LicensesServerTransport{
  srv:                    srv,
  beginCreateOrUpdate:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]](),
  beginDelete:            newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]](),
  newListByResourceGroupPager:
```

```
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]](),
  newListBySubscriptionPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]](),
  beginUpdate:                newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]](),
  beginValidateLicense:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]](),
 }
}

// LicensesServerTransport connects instances of armhybridcompute.LicensesClient to instances of LicensesServer.
// Don't use this type directly, use NewLicensesServerTransport
 instead.
type LicensesServerTransport struct {
 srv                         *LicensesServer
 beginCreateOrUpdate
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]]
 beginDelete                 *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]]
 newListByResourceGroupPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]]
 newListBySubscriptionPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]]
 beginUpdate                 *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]]
 beginValidateLicense
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]]
}

// Do implements the policy.Transporter interface for LicensesServerTransport.
func (l *LicensesServerTransport) Do(req *http.Request) (*http.Response, error) {
 rawMethod := req.Context().Value(runtime.CtxAPINameKey{})
 method,
 ok := rawMethod.(string)
 if !ok {
  return nil, nonRetriableError{errors.New("unable to dispatch request, missing value for CtxAPINameKey")}
 }

 var resp *http.Response
 var err error

 switch method {
 case "LicensesClient.BeginCreateOrUpdate":
  resp, err = l.dispatchBeginCreateOrUpdate(req)
 case "LicensesClient.BeginDelete":
  resp, err = l.dispatchBeginDelete(req)
 case "LicensesClient.Get":
  resp, err = l.dispatchGet(req)
 case "LicensesClient.NewListByResourceGroupPager":
  resp, err = l.dispatchNewListByResourceGroupPager(req)
 case "LicensesClient.NewListBySubscriptionPager":
```

```
 resp, err = l.dispatchNewListBySubscriptionPager(req)
 case "LicensesClient.BeginUpdate":
  resp, err = l.dispatchBeginUpdate(req)
 case "LicensesClient.BeginValidateLicense":
  resp, err = l.dispatchBeginValidateLicense(req)
 default:
  err = fmt.Errorf("unhandled API %s", method)
 }

 if err != nil {
  return nil, err
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginCreateOrUpdate(req
 *http.Request) (*http.Response, error) {
 if l.srv.BeginCreateOrUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginCreateOrUpdate not implemented")}
 }
 beginCreateOrUpdate := l.beginCreateOrUpdate.get(req)
 if beginCreateOrUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return
 nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginCreateOrUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body,
nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
```

```
  }
  beginCreateOrUpdate = &respr
  l.beginCreateOrUpdate.add(req, beginCreateOrUpdate)
 }

 resp, err := server.PollerResponderNext(beginCreateOrUpdate, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginCreateOrUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginCreateOrUpdate) {
  l.beginCreateOrUpdate.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginDelete(req *http.Request) (*http.Response, error) {
 if l.srv.BeginDelete
 == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginDelete not implemented")}
 }
 beginDelete := l.beginDelete.get(req)
 if beginDelete == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginDelete(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
  if
```

```
 respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 beginDelete = &respr
 l.beginDelete.add(req, beginDelete)
}

resp, err := server.PollerResponderNext(beginDelete, req)
if err != nil {
 return nil, err
}

if !contains([]int{http.StatusOK, http.StatusNoContent}, resp.StatusCode) {
 l.beginDelete.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK,
http.StatusNoContent", resp.StatusCode)}
}
if !server.PollerResponderMore(beginDelete) {
 l.beginDelete.remove(req)
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchGet(req *http.Request) (*http.Response, error) {
 if l.srv.Get == nil {
  return nil, &nonRetriableError{errors.New("fake for method Get not implemented")}
 }
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
 regex
 := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 3 {
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
  return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.Get(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
```

```
 }
 respContent := server.GetResponseContent(respr)
 if !contains([]int{http.StatusOK}, respContent.HTTPStatus) {
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
respContent.HTTPStatus)}
 }
 resp, err := server.MarshalResponseAsJSON(respContent,
 server.GetResponse(respr).License, req)
 if err != nil {
  return nil, err
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListByResourceGroupPager(req *http.Request) (*http.Response,
error) {
 if l.srv.NewListByResourceGroupPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListByResourceGroupPager not implemented")}
 }
 newListByResourceGroupPager := l.newListByResourceGroupPager.get(req)
 if newListByResourceGroupPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 2 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if
 err != nil {
   return nil, err
  }
  resp := l.srv.NewListByResourceGroupPager(resourceGroupNameParam, nil)
  newListByResourceGroupPager = &resp
  l.newListByResourceGroupPager.add(req, newListByResourceGroupPager)
  server.PagerResponderInjectNextLinks(newListByResourceGroupPager, req, func(page
*armhybridcompute.LicensesClientListByResourceGroupResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp, err := server.PagerResponderNext(newListByResourceGroupPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListByResourceGroupPager.remove(req)
```

```
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListByResourceGroupPager) {
  l.newListByResourceGroupPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListBySubscriptionPager(req *http.Request)
 (*http.Response, error) {
 if l.srv.NewListBySubscriptionPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListBySubscriptionPager not implemented")}
 }
 newListBySubscriptionPager := l.newListBySubscriptionPager.get(req)
 if newListBySubscriptionPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 1 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resp := l.srv.NewListBySubscriptionPager(nil)
  newListBySubscriptionPager = &resp
  l.newListBySubscriptionPager.add(req, newListBySubscriptionPager)
  server.PagerResponderInjectNextLinks(newListBySubscriptionPager, req, func(page
*armhybridcompute.LicensesClientListBySubscriptionResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp,
 err := server.PagerResponderNext(newListBySubscriptionPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListBySubscriptionPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListBySubscriptionPager) {
  l.newListBySubscriptionPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginUpdate(req *http.Request) (*http.Response, error) {
```

```
 if l.srv.BeginUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginUpdate not implemented")}
 }
 beginUpdate := l.beginUpdate.get(req)
 if beginUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex
 := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.LicenseUpdate](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body, nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginUpdate = &respr
  l.beginUpdate.add(req, beginUpdate)
 }

 resp, err := server.PollerResponderNext(beginUpdate, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK},
 resp.StatusCode) {
  l.beginUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginUpdate) {
  l.beginUpdate.remove(req)
 }
```

```
 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginValidateLicense(req *http.Request) (*http.Response, error) {
 if l.srv.BeginValidateLicense == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginValidateLicense not implemented")}
 }
 beginValidateLicense := l.beginValidateLicense.get(req)
 if beginValidateLicense == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/validateLicense`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 1 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body,
 err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginValidateLicense(req.Context(), body, nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginValidateLicense = &respr
  l.beginValidateLicense.add(req, beginValidateLicense)
 }

 resp, err := server.PollerResponderNext(beginValidateLicense, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginValidateLicense.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginValidateLicense) {
  l.beginValidateLicense.remove(req)
 }

 return resp, nil
}
```

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SOFTWARE

```
//go:build go1.18
// +build go1.18

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// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package armhybridcompute

import (
 "context"
 "errors"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/arm"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/policy"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "net/http"
 "net/url"
 "strings"
)

// LicensesClient contains the methods for the Licenses group.
// Don't use this type directly, use NewLicensesClient() instead.
type LicensesClient struct {
 internal       *arm.Client
 subscriptionID string
}
```

```
// NewLicensesClient creates a new instance of LicensesClient with the specified values.
//   - subscriptionID - The ID of the target
 subscription.
//   - credential - used to authorize requests. Usually a credential from azidentity.
//   - options - pass nil to accept the default values.
func NewLicensesClient(subscriptionID string, credential azcore.TokenCredential, options *arm.ClientOptions)
(*LicensesClient, error) {
 cl, err := arm.NewClient(moduleName, moduleVersion, credential, options)
 if err != nil {
  return nil, err
 }
 client := &LicensesClient{
  subscriptionID: subscriptionID,
  internal:       cl,
 }
 return client, nil
}

// BeginCreateOrUpdate - The operation to create or update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - parameters - Parameters supplied to the Create license operation.
//   - options - LicensesClientBeginCreateOrUpdateOptions contains the optional parameters
 for the LicensesClient.BeginCreateOrUpdate
//     method.
func (client *LicensesClient) BeginCreateOrUpdate(ctx context.Context, resourceGroupName string, licenseName
string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions)
(*runtime.Poller[LicensesClientCreateOrUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.createOrUpdate(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
```

```
}

// CreateOrUpdate - The operation to create or update a license.
// If the
 operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) createOrUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginCreateOrUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.createOrUpdateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// createOrUpdateCreateRequest creates
 the CreateOrUpdate request.
func (client *LicensesClient) createOrUpdateCreateRequest(ctx context.Context, resourceGroupName string,
licenseName string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*policy.Request,
error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
```

```
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx,
 http.MethodPut, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginDelete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientBeginDeleteOptions contains the optional parameters for the
LicensesClient.BeginDelete method.
func (client *LicensesClient) BeginDelete(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*runtime.Poller[LicensesClientDeleteResponse],
 error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.deleteOperation(ctx, resourceGroupName, licenseName, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// Delete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
```

```
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) deleteOperation(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*http.Response, error) {
 var err error
 const
 operationName = "LicensesClient.BeginDelete"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.deleteCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK, http.StatusNoContent) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// deleteCreateRequest creates the Delete request.
func (client *LicensesClient) deleteCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientBeginDeleteOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodDelete, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
```

```
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// Get - Retrieves information about the view of a license.
//
 If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientGetOptions contains the optional parameters for the LicensesClient.Get method.
func (client *LicensesClient) Get(ctx context.Context, resourceGroupName string, licenseName string, options
*LicensesClientGetOptions) (LicensesClientGetResponse, error) {
 var err error
 const operationName = "LicensesClient.Get"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.getCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return LicensesClientGetResponse{}, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil
 {
  return LicensesClientGetResponse{}, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return LicensesClientGetResponse{}, err
 }
 resp, err := client.getHandleResponse(httpResp)
 return resp, err
}

// getCreateRequest creates the Get request.
func (client *LicensesClient) getCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientGetOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
```

```
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
 licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// getHandleResponse handles the Get response.
func (client *LicensesClient) getHandleResponse(resp *http.Response) (LicensesClientGetResponse, error) {
 result := LicensesClientGetResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.License); err != nil {
  return LicensesClientGetResponse{}, err
 }
 return result, nil
}

// NewListByResourceGroupPager - The operation to get all licenses of a non-Azure machine
//
// Generated from
 API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - options - LicensesClientListByResourceGroupOptions contains the optional parameters for the
LicensesClient.NewListByResourceGroupPager
//     method.
func (client *LicensesClient) NewListByResourceGroupPager(resourceGroupName string, options
*LicensesClientListByResourceGroupOptions) *runtime.Pager[LicensesClientListByResourceGroupResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListByResourceGroupResponse]{
  More: func(page LicensesClientListByResourceGroupResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListByResourceGroupResponse)
(LicensesClientListByResourceGroupResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListByResourceGroupPager")
   nextLink := ""
   if page != nil {
```

```
    nextLink = *page.NextLink
   }
   resp,
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listByResourceGroupCreateRequest(ctx, resourceGroupName, options)
   }, nil)
   if err != nil {
    return LicensesClientListByResourceGroupResponse{}, err
   }
   return client.listByResourceGroupHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listByResourceGroupCreateRequest creates the ListByResourceGroup request.
func (client *LicensesClient) listByResourceGroupCreateRequest(ctx context.Context, resourceGroupName string,
options *LicensesClientListByResourceGroupOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es"
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listByResourceGroupHandleResponse handles the ListByResourceGroup response.
func (client *LicensesClient) listByResourceGroupHandleResponse(resp *http.Response)
(LicensesClientListByResourceGroupResponse, error) {
 result := LicensesClientListByResourceGroupResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListByResourceGroupResponse{}, err
```

```
 }
 return
 result, nil
}

// NewListBySubscriptionPager - The operation to get all licenses of a non-Azure machine
//
// Generated from API version 2023-06-20-preview
//   - options - LicensesClientListBySubscriptionOptions contains the optional parameters for the
LicensesClient.NewListBySubscriptionPager
//     method.
func (client *LicensesClient) NewListBySubscriptionPager(options *LicensesClientListBySubscriptionOptions)
*runtime.Pager[LicensesClientListBySubscriptionResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListBySubscriptionResponse]{
  More: func(page LicensesClientListBySubscriptionResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListBySubscriptionResponse)
(LicensesClientListBySubscriptionResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListBySubscriptionPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp,
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listBySubscriptionCreateRequest(ctx, options)
   }, nil)
   if err != nil {
    return LicensesClientListBySubscriptionResponse{}, err
   }
   return client.listBySubscriptionHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listBySubscriptionCreateRequest creates the ListBySubscription request.
func (client *LicensesClient) listBySubscriptionCreateRequest(ctx context.Context, options
*LicensesClientListBySubscriptionOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/licenses"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet,
```

```
 runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listBySubscriptionHandleResponse handles the ListBySubscription response.
func (client *LicensesClient) listBySubscriptionHandleResponse(resp *http.Response)
(LicensesClientListBySubscriptionResponse, error) {
 result := LicensesClientListBySubscriptionResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListBySubscriptionResponse{}, err
 }
 return result, nil
}

// BeginUpdate - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName
 - The name of the license.
//   - parameters - Parameters supplied to the Update license operation.
//   - options - LicensesClientBeginUpdateOptions contains the optional parameters for the
LicensesClient.BeginUpdate method.
func (client *LicensesClient) BeginUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions)
(*runtime.Poller[LicensesClientUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.update(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientUpdateResponse]{
   Tracer:
```

```
 client.internal.Tracer(),
  })
 }
}

// Update - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) update(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.updateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return
 nil, err
 }
 return httpResp, nil
}

// updateCreateRequest creates the Update request.
func (client *LicensesClient) updateCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
```

```
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}",
 url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodPatch, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - parameters - Parameters supplied to the license validation operation.
//   - options - LicensesClientBeginValidateLicenseOptions contains the optional parameters for the
LicensesClient.BeginValidateLicense
//     method.
func (client *LicensesClient) BeginValidateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions)
 (*runtime.Poller[LicensesClientValidateLicenseResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.validateLicense(ctx, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientValidateLicenseResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientValidateLicenseResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// ValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
```

```
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) validateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions)
 (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginValidateLicense"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.validateLicenseCreateRequest(ctx, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// validateLicenseCreateRequest creates the ValidateLicense request.
func (client *LicensesClient) validateLicenseCreateRequest(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/validateLicense"
 if client.subscriptionID
 == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodPost, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}
```

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SOFTWARE

```
//go:build go1.18
// +build go1.18

// Copyright (c) Microsoft Corporation. All rights reserved.
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// Code generated by Microsoft (R) AutoRest Code Generator.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.
// DO NOT EDIT.

package armhybridcompute_test

import (
 "context"
 "log"
```

```
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/azidentity"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
)

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_ValidateLicense.json
func ExampleLicensesClient_BeginValidateLicense() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err !=
 nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginValidateLicense(ctx, armhybridcompute.License{
  Location: to.Ptr("eastus2euap"),
  Properties: &armhybridcompute.LicenseProperties{
   LicenseDetails: &armhybridcompute.LicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err !=
 nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
```

```
// ID: to.Ptr("/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/Licenses/{licenseName}"),
// Location: to.Ptr("eastus2euap"),
// Properties: &armhybridcompute.LicenseProperties{
//  LicenseDetails: &armhybridcompute.LicenseDetails{
//   Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
//   AssignedLicenses: to.Ptr[int32](2),
//   Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//   ImmutableID: to.Ptr("<generated Guid>"),
//   Processors: to.Ptr[int32](6),
//
   State: to.Ptr(armhybridcompute.LicenseStateActivated),
//   Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//  },
//  LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
//  TenantID: to.Ptr("{tenandId}"),
// },
// }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_CreateOrUpdate.json
func ExampleLicensesClient_BeginCreateOrUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginCreateOrUpdate(ctx, "myResourceGroup",
 "{licenseName}", armhybridcompute.License{
  Location: to.Ptr("eastus2euap"),
  Properties: &armhybridcompute.LicenseProperties{
   LicenseDetails: &armhybridcompute.LicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
```

```
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values
 in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](2),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated
 from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_Update.json
func ExampleLicensesClient_BeginUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginUpdate(ctx, "myResourceGroup", "{licenseName}",
```

```
armhybridcompute.LicenseUpdate{
  Properties: &armhybridcompute.LicenseUpdateProperties{
   LicenseDetails: &armhybridcompute.LicenseUpdatePropertiesLicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors:
 to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/lice
nses/{licenseName}"),
 //
  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}
```

```
// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_Get.json
func ExampleLicensesClient_Get() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if
 err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 res, err := clientFactory.NewLicensesClient().Get(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //
  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
```

```
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_Delete.json
func ExampleLicensesClient_BeginDelete()
 {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginDelete(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 _, err = poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-
preview/examples/license/License_ListByResourceGroup.json
func ExampleLicensesClient_NewListByResourceGroupPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if
 err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListByResourceGroupPager("myResourceGroup", nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
   // You could use page here. We use blank identifier for just demo purposes.
   _ = v
  }
  // If the HTTP response code is 200 as defined in example definition, your page structure would look as follows.
```

```
Please pay attention that all the values in the output are fake values for just demo purposes.
  // page.LicensesListResult = armhybridcompute.LicensesListResult{
  //  Value: []*armhybridcompute.License{
  //    {
  //     Name: to.Ptr("{licenseName}"),
  //
    Type: to.Ptr("Microsoft.HybridCompute/licenses"),
  //     ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
  //     Location: to.Ptr("eastus2euap"),
  //     Properties: &armhybridcompute.LicenseProperties{
  //      LicenseDetails: &armhybridcompute.LicenseDetails{
  //       Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
  //       AssignedLicenses: to.Ptr[int32](8),
  //       Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
  //       ImmutableID: to.Ptr("<generated Guid>"),
  //       Processors: to.Ptr[int32](6),
  //       State: to.Ptr(armhybridcompute.LicenseStateActivated),
  //       Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
  //      },
  //      LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  //      TenantID: to.Ptr("{tenandId}"),
  //     },
  //  }},
  // }
 }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-
preview/examples/license/License_ListBySubscription.json
func
 ExampleLicensesClient_NewListBySubscriptionPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListBySubscriptionPager(nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
```

```
  log.Fatalf("failed to advance page: %v", err)
 }
 for _, v := range page.Value {
  // You could use page here. We use blank identifier for just demo purposes.
  _ = v
 }
 // If the HTTP response code is 200 as defined in example definition, your page structure would look as
follows. Please pay attention that all the values in the output are fake values for just demo purposes.
 // page.LicensesListResult = armhybridcompute.LicensesListResult{
 //  Value: []*armhybridcompute.License{
 //   {
 //    Name: to.Ptr("{licenseName}"),
 //    Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //    Location: to.Ptr("eastus2euap"),
 //    Properties: &armhybridcompute.LicenseProperties{
 //     LicenseDetails: &armhybridcompute.LicenseDetails{
 //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //      AssignedLicenses: to.Ptr[int32](8),
 //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //      ImmutableID: to.Ptr("<generated Guid>"),
 //      Processors: to.Ptr[int32](6),
 //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //
    },
 //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //     TenantID: to.Ptr("{tenandId}"),
 //    },
 //  }},
 // }
 }
}
```

1.4472 azure-sdk-for-go-sdk-internal v1.5.1

1.4472.1 Available under license :

```
Copyright (c) Microsoft Corporation. All rights reserved.
Licensed under the MIT License.
//go:build go1.18
// +build go1.18

// Copyright (c) Microsoft Corporation. All rights reserved.
// Licensed under the MIT License. See License.txt in the project root for license information.
// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
```

```
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package fake

import (
 "context"
 "errors"
 "fmt"
 azfake "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake/server"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
 "net/http"
 "net/url"
 "regexp"
)

// LicensesServer is a fake server for instances of the armhybridcompute.LicensesClient type.
type LicensesServer struct {
 // BeginCreateOrUpdate is the fake for method LicensesClient.BeginCreateOrUpdate
 // HTTP status codes to indicate success:
 http.StatusOK
 BeginCreateOrUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
armhybridcompute.License, options *armhybridcompute.LicensesClientBeginCreateOrUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse], errResp
azfake.ErrorResponder)

 // BeginDelete is the fake for method LicensesClient.BeginDelete
 // HTTP status codes to indicate success: http.StatusOK, http.StatusNoContent
 BeginDelete func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientBeginDeleteOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse], errResp azfake.ErrorResponder)

 // Get is the fake for method LicensesClient.Get
 // HTTP status codes to indicate success: http.StatusOK
 Get func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientGetOptions) (resp
azfake.Responder[armhybridcompute.LicensesClientGetResponse],
 errResp azfake.ErrorResponder)

 // NewListByResourceGroupPager is the fake for method LicensesClient.NewListByResourceGroupPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListByResourceGroupPager func(resourceGroupName string, options
*armhybridcompute.LicensesClientListByResourceGroupOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse])

 // NewListBySubscriptionPager is the fake for method LicensesClient.NewListBySubscriptionPager
```

```
 // HTTP status codes to indicate success: http.StatusOK
 NewListBySubscriptionPager func(options *armhybridcompute.LicensesClientListBySubscriptionOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse])

 // BeginUpdate is the fake for method LicensesClient.BeginUpdate
 // HTTP status codes to indicate success: http.StatusOK
 BeginUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
 armhybridcompute.LicenseUpdate, options *armhybridcompute.LicensesClientBeginUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse], errResp azfake.ErrorResponder)

 // BeginValidateLicense is the fake for method LicensesClient.BeginValidateLicense
 // HTTP status codes to indicate success: http.StatusOK
 BeginValidateLicense func(ctx context.Context, parameters armhybridcompute.License, options
*armhybridcompute.LicensesClientBeginValidateLicenseOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse], errResp
azfake.ErrorResponder)
}

// NewLicensesServerTransport creates a new instance of LicensesServerTransport with the provided
implementation.
// The returned LicensesServerTransport instance is connected to an instance of armhybridcompute.LicensesClient
via the
// azcore.ClientOptions.Transporter field in the client's constructor parameters.
func NewLicensesServerTransport(srv *LicensesServer) *LicensesServerTransport
 {
 return &LicensesServerTransport{
  srv:                    srv,
  beginCreateOrUpdate:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]](),
  beginDelete:            newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]](),
  newListByResourceGroupPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]](),
  newListBySubscriptionPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]](),
  beginUpdate:            newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]](),
  beginValidateLicense:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]](),
 }
}

// LicensesServerTransport connects instances of armhybridcompute.LicensesClient to instances of LicensesServer.
// Don't use this type directly, use NewLicensesServerTransport
 instead.
type LicensesServerTransport struct {
 srv                    *LicensesServer
 beginCreateOrUpdate
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]]
 beginDelete            *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]]
```

```
 newListByResourceGroupPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]]
 newListBySubscriptionPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]]
 beginUpdate                *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]]
 beginValidateLicense
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]]
}

// Do implements the policy.Transporter interface for LicensesServerTransport.
func (l *LicensesServerTransport) Do(req *http.Request) (*http.Response, error) {
 rawMethod := req.Context().Value(runtime.CtxAPINameKey{})
 method,
 ok := rawMethod.(string)
 if !ok {
  return nil, nonRetriableError{errors.New("unable to dispatch request, missing value for CtxAPINameKey")}
 }

 var resp *http.Response
 var err error

 switch method {
 case "LicensesClient.BeginCreateOrUpdate":
  resp, err = l.dispatchBeginCreateOrUpdate(req)
 case "LicensesClient.BeginDelete":
  resp, err = l.dispatchBeginDelete(req)
 case "LicensesClient.Get":
  resp, err = l.dispatchGet(req)
 case "LicensesClient.NewListByResourceGroupPager":
  resp, err = l.dispatchNewListByResourceGroupPager(req)
 case "LicensesClient.NewListBySubscriptionPager":
  resp, err = l.dispatchNewListBySubscriptionPager(req)
 case "LicensesClient.BeginUpdate":
  resp, err = l.dispatchBeginUpdate(req)
 case "LicensesClient.BeginValidateLicense":
  resp, err = l.dispatchBeginValidateLicense(req)
 default:
  err = fmt.Errorf("unhandled API %s", method)
 }

 if err != nil {
  return nil, err
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginCreateOrUpdate(req
```

```
 *http.Request) (*http.Response, error) {
 if l.srv.BeginCreateOrUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginCreateOrUpdate not implemented")}
 }
 beginCreateOrUpdate := l.beginCreateOrUpdate.get(req)
 if beginCreateOrUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return
 nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginCreateOrUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body,
nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginCreateOrUpdate = &respr
  l.beginCreateOrUpdate.add(req, beginCreateOrUpdate)
 }

 resp, err := server.PollerResponderNext(beginCreateOrUpdate, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginCreateOrUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginCreateOrUpdate) {
  l.beginCreateOrUpdate.remove(req)
```

```
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginDelete(req *http.Request) (*http.Response, error) {
 if l.srv.BeginDelete
 == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginDelete not implemented")}
 }
 beginDelete := l.beginDelete.get(req)
 if beginDelete == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginDelete(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
  if
 respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginDelete = &respr
  l.beginDelete.add(req, beginDelete)
 }

 resp, err := server.PollerResponderNext(beginDelete, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK, http.StatusNoContent}, resp.StatusCode) {
  l.beginDelete.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK,
http.StatusNoContent", resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginDelete) {
```

```
  l.beginDelete.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchGet(req *http.Request) (*http.Response, error) {
 if l.srv.Get == nil {
  return nil, &nonRetriableError{errors.New("fake for method Get not implemented")}
 }
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
 regex
 := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 3 {
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
  return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.Get(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 respContent := server.GetResponseContent(respr)
 if !contains([]int{http.StatusOK}, respContent.HTTPStatus) {
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
respContent.HTTPStatus)}
 }
 resp, err := server.MarshalResponseAsJSON(respContent,
 server.GetResponse(respr).License, req)
 if err != nil {
  return nil, err
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListByResourceGroupPager(req *http.Request) (*http.Response,
error) {
 if l.srv.NewListByResourceGroupPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListByResourceGroupPager not implemented")}
```

```
 }
 newListByResourceGroupPager := l.newListByResourceGroupPager.get(req)
 if newListByResourceGroupPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 2 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if
 err != nil {
   return nil, err
  }
  resp := l.srv.NewListByResourceGroupPager(resourceGroupNameParam, nil)
  newListByResourceGroupPager = &resp
  l.newListByResourceGroupPager.add(req, newListByResourceGroupPager)
  server.PagerResponderInjectNextLinks(newListByResourceGroupPager, req, func(page
*armhybridcompute.LicensesClientListByResourceGroupResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp, err := server.PagerResponderNext(newListByResourceGroupPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListByResourceGroupPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListByResourceGroupPager) {
  l.newListByResourceGroupPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListBySubscriptionPager(req *http.Request)
 (*http.Response, error) {
 if l.srv.NewListBySubscriptionPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListBySubscriptionPager not implemented")}
 }
 newListBySubscriptionPager := l.newListBySubscriptionPager.get(req)
 if newListBySubscriptionPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
```

```
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 1 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resp := l.srv.NewListBySubscriptionPager(nil)
  newListBySubscriptionPager = &resp
  l.newListBySubscriptionPager.add(req, newListBySubscriptionPager)
  server.PagerResponderInjectNextLinks(newListBySubscriptionPager, req, func(page
*armhybridcompute.LicensesClientListBySubscriptionResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp,
 err := server.PagerResponderNext(newListBySubscriptionPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListBySubscriptionPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListBySubscriptionPager) {
  l.newListBySubscriptionPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginUpdate(req *http.Request) (*http.Response, error) {
 if l.srv.BeginUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginUpdate not implemented")}
 }
 beginUpdate := l.beginUpdate.get(req)
 if beginUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex
 := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.LicenseUpdate](req)
  if err != nil {
   return nil, err
  }
```

```
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
  return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.BeginUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 beginUpdate = &respr
 l.beginUpdate.add(req, beginUpdate)
}

resp, err := server.PollerResponderNext(beginUpdate, req)
if err != nil {
 return nil, err
}

if !contains([]int{http.StatusOK},
resp.StatusCode) {
 l.beginUpdate.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}
if !server.PollerResponderMore(beginUpdate) {
 l.beginUpdate.remove(req)
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginValidateLicense(req *http.Request) (*http.Response, error) {
if l.srv.BeginValidateLicense == nil {
 return nil, &nonRetriableError{errors.New("fake for method BeginValidateLicense not implemented")}
}
beginValidateLicense := l.beginValidateLicense.get(req)
if beginValidateLicense == nil {
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/validateLicense`
 regex := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 1 {
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 body,
```

```
 err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginValidateLicense(req.Context(), body, nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginValidateLicense = &respr
  l.beginValidateLicense.add(req, beginValidateLicense)
 }

 resp, err := server.PollerResponderNext(beginValidateLicense, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginValidateLicense.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginValidateLicense) {
  l.beginValidateLicense.remove(req)
 }

 return resp, nil
}
```

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```
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   SOFTWARE
//go:build go1.18
// +build go1.18

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// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package armhybridcompute

import (
 "context"
 "errors"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/arm"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/policy"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "net/http"
 "net/url"
 "strings"
)

// LicensesClient contains the methods for the Licenses group.
// Don't use this type directly, use NewLicensesClient() instead.
type LicensesClient struct {
 internal       *arm.Client
 subscriptionID string
}

// NewLicensesClient creates a new instance of LicensesClient with the specified values.
//   - subscriptionID - The ID of the target
 subscription.
//   - credential - used to authorize requests. Usually a credential from azidentity.
//   - options - pass nil to accept the default values.
func NewLicensesClient(subscriptionID string, credential azcore.TokenCredential, options *arm.ClientOptions)
(*LicensesClient, error) {
 cl, err := arm.NewClient(moduleName, moduleVersion, credential, options)
 if err != nil {
  return nil, err
 }
 client := &LicensesClient{
  subscriptionID: subscriptionID,
  internal:       cl,
 }
 return client, nil
```

```
}

// BeginCreateOrUpdate - The operation to create or update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - parameters - Parameters supplied to the Create license operation.
//   - options - LicensesClientBeginCreateOrUpdateOptions contains the optional parameters
 for the LicensesClient.BeginCreateOrUpdate
//     method.
func (client *LicensesClient) BeginCreateOrUpdate(ctx context.Context, resourceGroupName string, licenseName
string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions)
(*runtime.Poller[LicensesClientCreateOrUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.createOrUpdate(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// CreateOrUpdate - The operation to create or update a license.
// If the
 operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) createOrUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginCreateOrUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.createOrUpdateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
```

```
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// createOrUpdateCreateRequest creates
 the CreateOrUpdate request.
func (client *LicensesClient) createOrUpdateCreateRequest(ctx context.Context, resourceGroupName string,
licenseName string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*policy.Request,
error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx,
 http.MethodPut, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginDelete - The operation to delete a license.
```

```
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientBeginDeleteOptions contains the optional parameters for the
LicensesClient.BeginDelete method.
func (client *LicensesClient) BeginDelete(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*runtime.Poller[LicensesClientDeleteResponse],
 error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.deleteOperation(ctx, resourceGroupName, licenseName, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// Delete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) deleteOperation(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*http.Response, error) {
 var err error
 const
 operationName = "LicensesClient.BeginDelete"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.deleteCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
```

```
 if !runtime.HasStatusCode(httpResp, http.StatusOK, http.StatusNoContent) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// deleteCreateRequest creates the Delete request.
func (client *LicensesClient) deleteCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientBeginDeleteOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodDelete, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// Get - Retrieves information about the view of a license.
//
 If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientGetOptions contains the optional parameters for the LicensesClient.Get method.
func (client *LicensesClient) Get(ctx context.Context, resourceGroupName string, licenseName string, options
*LicensesClientGetOptions) (LicensesClientGetResponse, error) {
 var err error
```

```
 const operationName = "LicensesClient.Get"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.getCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return LicensesClientGetResponse{}, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil
 {
  return LicensesClientGetResponse{}, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return LicensesClientGetResponse{}, err
 }
 resp, err := client.getHandleResponse(httpResp)
 return resp, err
}

// getCreateRequest creates the Get request.
func (client *LicensesClient) getCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientGetOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
 licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
```

```
 return req, nil
}

// getHandleResponse handles the Get response.
func (client *LicensesClient) getHandleResponse(resp *http.Response) (LicensesClientGetResponse, error) {
 result := LicensesClientGetResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.License); err != nil {
  return LicensesClientGetResponse{}, err
 }
 return result, nil
}

// NewListByResourceGroupPager - The operation to get all licenses of a non-Azure machine
//
// Generated from
 API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - options - LicensesClientListByResourceGroupOptions contains the optional parameters for the
LicensesClient.NewListByResourceGroupPager
//     method.
func (client *LicensesClient) NewListByResourceGroupPager(resourceGroupName string, options
*LicensesClientListByResourceGroupOptions) *runtime.Pager[LicensesClientListByResourceGroupResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListByResourceGroupResponse]{
  More: func(page LicensesClientListByResourceGroupResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListByResourceGroupResponse)
(LicensesClientListByResourceGroupResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListByResourceGroupPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp,
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listByResourceGroupCreateRequest(ctx, resourceGroupName, options)
   }, nil)
   if err != nil {
    return LicensesClientListByResourceGroupResponse{}, err
   }
   return client.listByResourceGroupHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listByResourceGroupCreateRequest creates the ListByResourceGroup request.
```

```
func (client *LicensesClient) listByResourceGroupCreateRequest(ctx context.Context, resourceGroupName string,
options *LicensesClientListByResourceGroupOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es"
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listByResourceGroupHandleResponse handles the ListByResourceGroup response.
func (client *LicensesClient) listByResourceGroupHandleResponse(resp *http.Response)
(LicensesClientListByResourceGroupResponse, error) {
 result := LicensesClientListByResourceGroupResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListByResourceGroupResponse{}, err
 }
 return
 result, nil
}

// NewListBySubscriptionPager - The operation to get all licenses of a non-Azure machine
//
// Generated from API version 2023-06-20-preview
//   - options - LicensesClientListBySubscriptionOptions contains the optional parameters for the
LicensesClient.NewListBySubscriptionPager
//     method.
func (client *LicensesClient) NewListBySubscriptionPager(options *LicensesClientListBySubscriptionOptions)
*runtime.Pager[LicensesClientListBySubscriptionResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListBySubscriptionResponse]{
  More: func(page LicensesClientListBySubscriptionResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
```

```
  Fetcher: func(ctx context.Context, page *LicensesClientListBySubscriptionResponse)
(LicensesClientListBySubscriptionResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListBySubscriptionPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp,
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listBySubscriptionCreateRequest(ctx, options)
   }, nil)
   if err != nil {
    return LicensesClientListBySubscriptionResponse{}, err
   }
   return client.listBySubscriptionHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listBySubscriptionCreateRequest creates the ListBySubscription request.
func (client *LicensesClient) listBySubscriptionCreateRequest(ctx context.Context, options
*LicensesClientListBySubscriptionOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/licenses"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet,
 runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listBySubscriptionHandleResponse handles the ListBySubscription response.
func (client *LicensesClient) listBySubscriptionHandleResponse(resp *http.Response)
(LicensesClientListBySubscriptionResponse, error) {
 result := LicensesClientListBySubscriptionResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListBySubscriptionResponse{}, err
 }
```

```
 return result, nil
}

// BeginUpdate - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName
 - The name of the license.
//   - parameters - Parameters supplied to the Update license operation.
//   - options - LicensesClientBeginUpdateOptions contains the optional parameters for the
LicensesClient.BeginUpdate method.
func (client *LicensesClient) BeginUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions)
(*runtime.Poller[LicensesClientUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.update(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientUpdateResponse]{
   Tracer:
 client.internal.Tracer(),
  })
 }
}

// Update - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) update(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.updateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
```

```
 return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return
 nil, err
 }
 return httpResp, nil
}

// updateCreateRequest creates the Update request.
func (client *LicensesClient) updateCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}",
 url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodPatch, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginValidateLicense - The operation to validate a license.
```

```
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - parameters - Parameters supplied to the license validation operation.
//   - options - LicensesClientBeginValidateLicenseOptions contains the optional parameters for the
LicensesClient.BeginValidateLicense
//     method.
func (client *LicensesClient) BeginValidateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions)
 (*runtime.Poller[LicensesClientValidateLicenseResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.validateLicense(ctx, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientValidateLicenseResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientValidateLicenseResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// ValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) validateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions)
 (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginValidateLicense"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.validateLicenseCreateRequest(ctx, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
```

```
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// validateLicenseCreateRequest creates the ValidateLicense request.
func (client *LicensesClient) validateLicenseCreateRequest(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/validateLicense"
 if client.subscriptionID
 == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodPost, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}
```

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//go:build go1.18
// +build go1.18

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package armhybridcompute_test

import (
 "context"
 "log"

 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/azidentity"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
)

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_ValidateLicense.json
func ExampleLicensesClient_BeginValidateLicense() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err !=
 nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
```

```
poller, err := clientFactory.NewLicensesClient().BeginValidateLicense(ctx, armhybridcompute.License{
 Location: to.Ptr("eastus2euap"),
 Properties: &armhybridcompute.LicenseProperties{
  LicenseDetails: &armhybridcompute.LicenseDetails{
   Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
   Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
   Processors: to.Ptr[int32](6),
   State:      to.Ptr(armhybridcompute.LicenseStateActivated),
   Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
  },
  LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 },
}, nil)
if err != nil {
 log.Fatalf("failed to finish the request: %v", err)
}
res, err := poller.PollUntilDone(ctx, nil)
if err !=
nil {
 log.Fatalf("failed to pull the result: %v", err)
}
// You could use response here. We use blank identifier for just demo purposes.
_ = res
// If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
// res.License = armhybridcompute.License{
//  Name: to.Ptr("{licenseName}"),
//  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
//  ID: to.Ptr("/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/Licenses/{licenseName}"),
//  Location: to.Ptr("eastus2euap"),
//  Properties: &armhybridcompute.LicenseProperties{
//   LicenseDetails: &armhybridcompute.LicenseDetails{
//    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
//    AssignedLicenses: to.Ptr[int32](2),
//    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//    ImmutableID: to.Ptr("<generated Guid>"),
//    Processors: to.Ptr[int32](6),
//
   State: to.Ptr(armhybridcompute.LicenseStateActivated),
//    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//   },
//   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
//   TenantID: to.Ptr("{tenandId}"),
//  },
// }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
```

specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_CreateOrUpdate.json

```
func ExampleLicensesClient_BeginCreateOrUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginCreateOrUpdate(ctx, "myResourceGroup",
 "{licenseName}", armhybridcompute.License{
  Location: to.Ptr("eastus2euap"),
  Properties: &armhybridcompute.LicenseProperties{
   LicenseDetails: &armhybridcompute.LicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values
 in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Licenses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
```

```
//    AssignedLicenses: to.Ptr[int32](2),
//    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//    ImmutableID: to.Ptr("<generated Guid>"),
//    Processors: to.Ptr[int32](6),
//    State: to.Ptr(armhybridcompute.LicenseStateActivated),
//    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//   },
//   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
//   TenantID: to.Ptr("{tenandId}"),
//  },
// }
}

// Generated
 from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_Update.json
func ExampleLicensesClient_BeginUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginUpdate(ctx, "myResourceGroup", "{licenseName}",
armhybridcompute.LicenseUpdate{
  Properties: &armhybridcompute.LicenseUpdateProperties{
   LicenseDetails: &armhybridcompute.LicenseUpdatePropertiesLicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors:
 to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
```

```
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/lice
nses/{licenseName}"),
 //
  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_Get.json
func ExampleLicensesClient_Get() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if
 err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 res, err := clientFactory.NewLicensesClient().Get(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
```

```
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //
  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_Delete.json
func ExampleLicensesClient_BeginDelete()
 {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginDelete(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 _, err = poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
```

```
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-
preview/examples/license/License_ListByResourceGroup.json
func ExampleLicensesClient_NewListByResourceGroupPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if
 err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListByResourceGroupPager("myResourceGroup", nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
   // You could use page here. We use blank identifier for just demo purposes.
   _ = v
  }
  // If the HTTP response code is 200 as defined in example definition, your page structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
  // page.LicensesListResult = armhybridcompute.LicensesListResult{
  //  Value: []*armhybridcompute.License{
  //   {
  //    Name: to.Ptr("{licenseName}"),
  //
   Type: to.Ptr("Microsoft.HybridCompute/licenses"),
  //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
  //    Location: to.Ptr("eastus2euap"),
  //    Properties: &armhybridcompute.LicenseProperties{
  //     LicenseDetails: &armhybridcompute.LicenseDetails{
  //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
  //      AssignedLicenses: to.Ptr[int32](8),
  //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
  //      ImmutableID: to.Ptr("<generated Guid>"),
  //      Processors: to.Ptr[int32](6),
  //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
  //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
```

```
 //     },
 //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //     TenantID: to.Ptr("{tenandId}"),
 //    },
 //  }},
 // }
 }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-
preview/examples/license/License_ListBySubscription.json
func
 ExampleLicensesClient_NewListBySubscriptionPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListBySubscriptionPager(nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
   // You could use page here. We use blank identifier for just demo purposes.
   _ = v
  }
  // If the HTTP response code is 200 as defined in example definition, your page structure would look as
 follows. Please pay attention that all the values in the output are fake values for just demo purposes.
  // page.LicensesListResult = armhybridcompute.LicensesListResult{
  //  Value: []*armhybridcompute.License{
  //   {
  //    Name: to.Ptr("{licenseName}"),
  //    Type: to.Ptr("Microsoft.HybridCompute/licenses"),
  //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
  //    Location: to.Ptr("eastus2euap"),
  //    Properties: &armhybridcompute.LicenseProperties{
  //     LicenseDetails: &armhybridcompute.LicenseDetails{
  //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
```

```
 //      AssignedLicenses: to.Ptr[int32](8),
 //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //      ImmutableID: to.Ptr("<generated Guid>"),
 //      Processors: to.Ptr[int32](6),
 //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //
    },
 //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //     TenantID: to.Ptr("{tenandId}"),
 //    },
 //  }},
 // }
 }
}
```

1.4473 azure-sdk-for-go-sdk-azcore v1.9.1

1.4473.1 Available under license :

```
Copyright (c) Microsoft Corporation. All rights reserved.
Licensed under the MIT License.
//go:build go1.18
// +build go1.18

// Copyright (c) Microsoft Corporation. All rights reserved.
// Licensed under the MIT License. See License.txt in the project root for license information.
// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package fake

import (
 "context"
 "errors"
 "fmt"
 azfake "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake/server"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
 "net/http"
 "net/url"
 "regexp"
)

// LicensesServer is a fake server for instances of the armhybridcompute.LicensesClient type.
type LicensesServer struct {
```

```
 // BeginCreateOrUpdate is the fake for method LicensesClient.BeginCreateOrUpdate
 // HTTP status codes to indicate success:
 http.StatusOK
 BeginCreateOrUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
armhybridcompute.License, options *armhybridcompute.LicensesClientBeginCreateOrUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse], errResp
azfake.ErrorResponder)

 // BeginDelete is the fake for method LicensesClient.BeginDelete
 // HTTP status codes to indicate success: http.StatusOK, http.StatusNoContent
 BeginDelete func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientBeginDeleteOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse], errResp azfake.ErrorResponder)

 // Get is the fake for method LicensesClient.Get
 // HTTP status codes to indicate success: http.StatusOK
 Get func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientGetOptions) (resp
azfake.Responder[armhybridcompute.LicensesClientGetResponse],
 errResp azfake.ErrorResponder)

 // NewListByResourceGroupPager is the fake for method LicensesClient.NewListByResourceGroupPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListByResourceGroupPager func(resourceGroupName string, options
*armhybridcompute.LicensesClientListByResourceGroupOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse])

 // NewListBySubscriptionPager is the fake for method LicensesClient.NewListBySubscriptionPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListBySubscriptionPager func(options *armhybridcompute.LicensesClientListBySubscriptionOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse])

 // BeginUpdate is the fake for method LicensesClient.BeginUpdate
 // HTTP status codes to indicate success: http.StatusOK
 BeginUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
 armhybridcompute.LicenseUpdate, options *armhybridcompute.LicensesClientBeginUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse], errResp azfake.ErrorResponder)

 // BeginValidateLicense is the fake for method LicensesClient.BeginValidateLicense
 // HTTP status codes to indicate success: http.StatusOK
 BeginValidateLicense func(ctx context.Context, parameters armhybridcompute.License, options
*armhybridcompute.LicensesClientBeginValidateLicenseOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse], errResp
azfake.ErrorResponder)
}

// NewLicensesServerTransport creates a new instance of LicensesServerTransport with the provided
implementation.
```

```
// The returned LicensesServerTransport instance is connected to an instance of armhybridcompute.LicensesClient
via the
// azcore.ClientOptions.Transporter field in the client's constructor parameters.
func NewLicensesServerTransport(srv *LicensesServer) *LicensesServerTransport
 {
 return &LicensesServerTransport{
  srv:                    srv,
  beginCreateOrUpdate:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]](),
  beginDelete:              newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]](),
  newListByResourceGroupPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]](),
  newListBySubscriptionPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]](),
  beginUpdate:              newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]](),
  beginValidateLicense:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]](),
 }
}

// LicensesServerTransport connects instances of armhybridcompute.LicensesClient to instances of LicensesServer.
// Don't use this type directly, use NewLicensesServerTransport
 instead.
type LicensesServerTransport struct {
 srv                    *LicensesServer
 beginCreateOrUpdate
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]]
 beginDelete              *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]]
 newListByResourceGroupPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]]
 newListBySubscriptionPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]]
 beginUpdate              *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]]
 beginValidateLicense
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]]
}

// Do implements the policy.Transporter interface for LicensesServerTransport.
func (l *LicensesServerTransport) Do(req *http.Request) (*http.Response, error) {
 rawMethod := req.Context().Value(runtime.CtxAPINameKey{})
 method,
 ok := rawMethod.(string)
 if !ok {
  return nil, nonRetriableError{errors.New("unable to dispatch request, missing value for CtxAPINameKey")}
 }

 var resp *http.Response
 var err error
```

```
 switch method {
 case "LicensesClient.BeginCreateOrUpdate":
  resp, err = l.dispatchBeginCreateOrUpdate(req)
 case "LicensesClient.BeginDelete":
  resp, err = l.dispatchBeginDelete(req)
 case "LicensesClient.Get":
  resp, err = l.dispatchGet(req)
 case "LicensesClient.NewListByResourceGroupPager":
  resp, err = l.dispatchNewListByResourceGroupPager(req)
 case "LicensesClient.NewListBySubscriptionPager":
  resp, err = l.dispatchNewListBySubscriptionPager(req)
 case "LicensesClient.BeginUpdate":
  resp, err = l.dispatchBeginUpdate(req)
 case "LicensesClient.BeginValidateLicense":
  resp, err = l.dispatchBeginValidateLicense(req)
 default:
  err = fmt.Errorf("unhandled API %s", method)
 }

 if err != nil {
  return nil, err
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginCreateOrUpdate(req
 *http.Request) (*http.Response, error) {
 if l.srv.BeginCreateOrUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginCreateOrUpdate not implemented")}
 }
 beginCreateOrUpdate := l.beginCreateOrUpdate.get(req)
 if beginCreateOrUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
```

```
  return
 nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginCreateOrUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body,
nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginCreateOrUpdate = &respr
  l.beginCreateOrUpdate.add(req, beginCreateOrUpdate)
 }

 resp, err := server.PollerResponderNext(beginCreateOrUpdate, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginCreateOrUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginCreateOrUpdate) {
  l.beginCreateOrUpdate.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginDelete(req *http.Request) (*http.Response, error) {
 if l.srv.BeginDelete
 == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginDelete not implemented")}
 }
 beginDelete := l.beginDelete.get(req)
 if beginDelete == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
```

```
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
  return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.BeginDelete(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
 if
respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 beginDelete = &respr
 l.beginDelete.add(req, beginDelete)
}

resp, err := server.PollerResponderNext(beginDelete, req)
if err != nil {
 return nil, err
}

if !contains([]int{http.StatusOK, http.StatusNoContent}, resp.StatusCode) {
 l.beginDelete.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK,
http.StatusNoContent", resp.StatusCode)}
}
if !server.PollerResponderMore(beginDelete) {
 l.beginDelete.remove(req)
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchGet(req *http.Request) (*http.Response, error) {
if l.srv.Get == nil {
 return nil, &nonRetriableError{errors.New("fake for method Get not implemented")}
}
const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
regex
:= regexp.MustCompile(regexStr)
matches := regex.FindStringSubmatch(req.URL.EscapedPath())
if matches == nil || len(matches) < 3 {
 return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
}
resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
```

```
 if err != nil {
  return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.Get(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 respContent := server.GetResponseContent(respr)
 if !contains([]int{http.StatusOK}, respContent.HTTPStatus) {
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
respContent.HTTPStatus)}
 }
 resp, err := server.MarshalResponseAsJSON(respContent,
 server.GetResponse(respr).License, req)
 if err != nil {
  return nil, err
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListByResourceGroupPager(req *http.Request) (*http.Response,
error) {
 if l.srv.NewListByResourceGroupPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListByResourceGroupPager not implemented")}
 }
 newListByResourceGroupPager := l.newListByResourceGroupPager.get(req)
 if newListByResourceGroupPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 2 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if
 err != nil {
   return nil, err
  }
  resp := l.srv.NewListByResourceGroupPager(resourceGroupNameParam, nil)
  newListByResourceGroupPager = &resp
  l.newListByResourceGroupPager.add(req, newListByResourceGroupPager)
  server.PagerResponderInjectNextLinks(newListByResourceGroupPager, req, func(page
```

```
*armhybridcompute.LicensesClientListByResourceGroupResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp, err := server.PagerResponderNext(newListByResourceGroupPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListByResourceGroupPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListByResourceGroupPager) {
  l.newListByResourceGroupPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListBySubscriptionPager(req *http.Request)
 (*http.Response, error) {
 if l.srv.NewListBySubscriptionPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListBySubscriptionPager not implemented")}
 }
 newListBySubscriptionPager := l.newListBySubscriptionPager.get(req)
 if newListBySubscriptionPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 1 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resp := l.srv.NewListBySubscriptionPager(nil)
  newListBySubscriptionPager = &resp
  l.newListBySubscriptionPager.add(req, newListBySubscriptionPager)
  server.PagerResponderInjectNextLinks(newListBySubscriptionPager, req, func(page
*armhybridcompute.LicensesClientListBySubscriptionResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp,
 err := server.PagerResponderNext(newListBySubscriptionPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListBySubscriptionPager.remove(req)
```

```
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListBySubscriptionPager) {
  l.newListBySubscriptionPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginUpdate(req *http.Request) (*http.Response, error) {
 if l.srv.BeginUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginUpdate not implemented")}
 }
 beginUpdate := l.beginUpdate.get(req)
 if beginUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex
 := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.LicenseUpdate](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body, nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginUpdate = &respr
  l.beginUpdate.add(req, beginUpdate)
 }

 resp, err := server.PollerResponderNext(beginUpdate, req)
 if err != nil {
  return nil, err
 }
```

```
 if !contains([]int{http.StatusOK},
 resp.StatusCode) {
  l.beginUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginUpdate) {
  l.beginUpdate.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginValidateLicense(req *http.Request) (*http.Response, error) {
 if l.srv.BeginValidateLicense == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginValidateLicense not implemented")}
 }
 beginValidateLicense := l.beginValidateLicense.get(req)
 if beginValidateLicense == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/validateLicense`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 1 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body,
 err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginValidateLicense(req.Context(), body, nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginValidateLicense = &respr
  l.beginValidateLicense.add(req, beginValidateLicense)
 }

 resp, err := server.PollerResponderNext(beginValidateLicense, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginValidateLicense.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
```

```
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginValidateLicense) {
  l.beginValidateLicense.remove(req)
 }

 return resp, nil
}
```

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SOFTWARE

```
//go:build go1.18
// +build go1.18

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// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package armhybridcompute

import (
 "context"
 "errors"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/arm"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/policy"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "net/http"
```

```
 "net/url"
 "strings"
)

// LicensesClient contains the methods for the Licenses group.
// Don't use this type directly, use NewLicensesClient() instead.
type LicensesClient struct {
 internal       *arm.Client
 subscriptionID string
}

// NewLicensesClient creates a new instance of LicensesClient with the specified values.
//   - subscriptionID - The ID of the target
 subscription.
//   - credential - used to authorize requests. Usually a credential from azidentity.
//   - options - pass nil to accept the default values.
func NewLicensesClient(subscriptionID string, credential azcore.TokenCredential, options *arm.ClientOptions)
(*LicensesClient, error) {
 cl, err := arm.NewClient(moduleName, moduleVersion, credential, options)
 if err != nil {
  return nil, err
 }
 client := &LicensesClient{
  subscriptionID: subscriptionID,
  internal:       cl,
 }
 return client, nil
}

// BeginCreateOrUpdate - The operation to create or update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - parameters - Parameters supplied to the Create license operation.
//   - options - LicensesClientBeginCreateOrUpdateOptions contains the optional parameters
 for the LicensesClient.BeginCreateOrUpdate
//     method.
func (client *LicensesClient) BeginCreateOrUpdate(ctx context.Context, resourceGroupName string, licenseName
string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions)
(*runtime.Poller[LicensesClientCreateOrUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.createOrUpdate(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
```

```
&runtime.NewPollerOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// CreateOrUpdate - The operation to create or update a license.
// If the
 operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) createOrUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginCreateOrUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.createOrUpdateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// createOrUpdateCreateRequest creates
 the CreateOrUpdate request.
func (client *LicensesClient) createOrUpdateCreateRequest(ctx context.Context, resourceGroupName string,
licenseName string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*policy.Request,
error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
```

```
 return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx,
 http.MethodPut, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginDelete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientBeginDeleteOptions contains the optional parameters for the
LicensesClient.BeginDelete method.
func (client *LicensesClient) BeginDelete(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*runtime.Poller[LicensesClientDeleteResponse],
 error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.deleteOperation(ctx, resourceGroupName, licenseName, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
```

```
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// Delete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) deleteOperation(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*http.Response, error) {
 var err error
 const
 operationName = "LicensesClient.BeginDelete"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.deleteCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK, http.StatusNoContent) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// deleteCreateRequest creates the Delete request.
func (client *LicensesClient) deleteCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientBeginDeleteOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
```

```
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodDelete, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// Get - Retrieves information about the view of a license.
//
 If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientGetOptions contains the optional parameters for the LicensesClient.Get method.
func (client *LicensesClient) Get(ctx context.Context, resourceGroupName string, licenseName string, options
*LicensesClientGetOptions) (LicensesClientGetResponse, error) {
 var err error
 const operationName = "LicensesClient.Get"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.getCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return LicensesClientGetResponse{}, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil
 {
  return LicensesClientGetResponse{}, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return LicensesClientGetResponse{}, err
 }
 resp, err := client.getHandleResponse(httpResp)
 return resp, err
}
```

```
// getCreateRequest creates the Get request.
func (client *LicensesClient) getCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientGetOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
 licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// getHandleResponse handles the Get response.
func (client *LicensesClient) getHandleResponse(resp *http.Response) (LicensesClientGetResponse, error) {
 result := LicensesClientGetResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.License); err != nil {
  return LicensesClientGetResponse{}, err
 }
 return result, nil
}

// NewListByResourceGroupPager - The operation to get all licenses of a non-Azure machine
//
// Generated from
 API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - options - LicensesClientListByResourceGroupOptions contains the optional parameters for the
LicensesClient.NewListByResourceGroupPager
//     method.
func (client *LicensesClient) NewListByResourceGroupPager(resourceGroupName string, options
```

```
*LicensesClientListByResourceGroupOptions) *runtime.Pager[LicensesClientListByResourceGroupResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListByResourceGroupResponse]{
  More: func(page LicensesClientListByResourceGroupResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListByResourceGroupResponse)
(LicensesClientListByResourceGroupResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListByResourceGroupPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp,
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listByResourceGroupCreateRequest(ctx, resourceGroupName, options)
   }, nil)
   if err != nil {
    return LicensesClientListByResourceGroupResponse{}, err
   }
   return client.listByResourceGroupHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listByResourceGroupCreateRequest creates the ListByResourceGroup request.
func (client *LicensesClient) listByResourceGroupCreateRequest(ctx context.Context, resourceGroupName string,
options *LicensesClientListByResourceGroupOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es"
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
```

```
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listByResourceGroupHandleResponse handles the ListByResourceGroup response.
func (client *LicensesClient) listByResourceGroupHandleResponse(resp *http.Response)
(LicensesClientListByResourceGroupResponse, error) {
 result := LicensesClientListByResourceGroupResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListByResourceGroupResponse{}, err
 }
 return
 result, nil
}

// NewListBySubscriptionPager - The operation to get all licenses of a non-Azure machine
//
// Generated from API version 2023-06-20-preview
//   - options - LicensesClientListBySubscriptionOptions contains the optional parameters for the
LicensesClient.NewListBySubscriptionPager
//     method.
func (client *LicensesClient) NewListBySubscriptionPager(options *LicensesClientListBySubscriptionOptions)
*runtime.Pager[LicensesClientListBySubscriptionResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListBySubscriptionResponse]{
  More: func(page LicensesClientListBySubscriptionResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListBySubscriptionResponse)
(LicensesClientListBySubscriptionResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListBySubscriptionPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp,
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listBySubscriptionCreateRequest(ctx, options)
   }, nil)
   if err != nil {
    return LicensesClientListBySubscriptionResponse{}, err
   }
   return client.listBySubscriptionHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}
```

```
// listBySubscriptionCreateRequest creates the ListBySubscription request.
func (client *LicensesClient) listBySubscriptionCreateRequest(ctx context.Context, options
*LicensesClientListBySubscriptionOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/licenses"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet,
 runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listBySubscriptionHandleResponse handles the ListBySubscription response.
func (client *LicensesClient) listBySubscriptionHandleResponse(resp *http.Response)
(LicensesClientListBySubscriptionResponse, error) {
 result := LicensesClientListBySubscriptionResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListBySubscriptionResponse{}, err
 }
 return result, nil
}

// BeginUpdate - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName
 - The name of the license.
//   - parameters - Parameters supplied to the Update license operation.
//   - options - LicensesClientBeginUpdateOptions contains the optional parameters for the
LicensesClient.BeginUpdate method.
func (client *LicensesClient) BeginUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions)
(*runtime.Poller[LicensesClientUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.update(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
```

```
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientUpdateResponse]{
   Tracer:
 client.internal.Tracer(),
  })
 }
}

// Update - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) update(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.updateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return
 nil, err
 }
 return httpResp, nil
}

// updateCreateRequest creates the Update request.
func (client *LicensesClient) updateCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
```

```
 return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}",
 url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodPatch, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - parameters - Parameters supplied to the license validation operation.
//   - options - LicensesClientBeginValidateLicenseOptions contains the optional parameters for the
LicensesClient.BeginValidateLicense
//     method.
func (client *LicensesClient) BeginValidateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions)
 (*runtime.Poller[LicensesClientValidateLicenseResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.validateLicense(ctx, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientValidateLicenseResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
```

```
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientValidateLicenseResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// ValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) validateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions)
 (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginValidateLicense"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.validateLicenseCreateRequest(ctx, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// validateLicenseCreateRequest creates the ValidateLicense request.
func (client *LicensesClient) validateLicenseCreateRequest(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/validateLicense"
 if client.subscriptionID
 == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodPost, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
```

```
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}
```

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```
//go:build go1.18
// +build go1.18

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```

```
// DO NOT EDIT.

package armhybridcompute_test

import (
 "context"
 "log"

 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/azidentity"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
)

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_ValidateLicense.json
func ExampleLicensesClient_BeginValidateLicense() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err !=
 nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginValidateLicense(ctx, armhybridcompute.License{
  Location: to.Ptr("eastus2euap"),
  Properties: &armhybridcompute.LicenseProperties{
   LicenseDetails: &armhybridcompute.LicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err !=
 nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
```

```
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID: to.Ptr("/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/Licenses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](2),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //
    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_CreateOrUpdate.json
func ExampleLicensesClient_BeginCreateOrUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginCreateOrUpdate(ctx, "myResourceGroup",
 "{licenseName}", armhybridcompute.License{
  Location: to.Ptr("eastus2euap"),
  Properties: &armhybridcompute.LicenseProperties{
   LicenseDetails: &armhybridcompute.LicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
```

```
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values
 in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](2),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated
 from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_Update.json
func ExampleLicensesClient_BeginUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
```

```
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginUpdate(ctx, "myResourceGroup", "{licenseName}",
armhybridcompute.LicenseUpdate{
  Properties: &armhybridcompute.LicenseUpdateProperties{
   LicenseDetails: &armhybridcompute.LicenseUpdatePropertiesLicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors:
 to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/lice
nses/{licenseName}"),
 //
  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
```

```
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

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manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_Get.json
func ExampleLicensesClient_Get() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if
 err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 res, err := clientFactory.NewLicensesClient().Get(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //
  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
```

```
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
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manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_Delete.json
func ExampleLicensesClient_BeginDelete()
 {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginDelete(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 _, err = poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-
preview/examples/license/License_ListByResourceGroup.json
func ExampleLicensesClient_NewListByResourceGroupPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if
 err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListByResourceGroupPager("myResourceGroup", nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
```

```
  log.Fatalf("failed to advance page: %v", err)
 }
 for _, v := range page.Value {
  // You could use page here. We use blank identifier for just demo purposes.
  _ = v
 }
 // If the HTTP response code is 200 as defined in example definition, your page structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // page.LicensesListResult = armhybridcompute.LicensesListResult{
 //  Value: []*armhybridcompute.License{
 //   {
 //    Name: to.Ptr("{licenseName}"),
 //
   Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //    Location: to.Ptr("eastus2euap"),
 //    Properties: &armhybridcompute.LicenseProperties{
 //     LicenseDetails: &armhybridcompute.LicenseDetails{
 //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //      AssignedLicenses: to.Ptr[int32](8),
 //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //      ImmutableID: to.Ptr("<generated Guid>"),
 //      Processors: to.Ptr[int32](6),
 //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //     },
 //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //     TenantID: to.Ptr("{tenandId}"),
 //    },
 //  }},
 // }
 }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-
preview/examples/license/License_ListBySubscription.json
func
 ExampleLicensesClient_NewListBySubscriptionPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
```

```
if err != nil {
 log.Fatalf("failed to create client: %v", err)
}
pager := clientFactory.NewLicensesClient().NewListBySubscriptionPager(nil)
for pager.More() {
 page, err := pager.NextPage(ctx)
 if err != nil {
  log.Fatalf("failed to advance page: %v", err)
 }
 for _, v := range page.Value {
  // You could use page here. We use blank identifier for just demo purposes.
  _ = v
 }
 // If the HTTP response code is 200 as defined in example definition, your page structure would look as
follows. Please pay attention that all the values in the output are fake values for just demo purposes.
 // page.LicensesListResult = armhybridcompute.LicensesListResult{
 //  Value: []*armhybridcompute.License{
 //   {
 //    Name: to.Ptr("{licenseName}"),
 //    Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //    Location: to.Ptr("eastus2euap"),
 //    Properties: &armhybridcompute.LicenseProperties{
 //     LicenseDetails: &armhybridcompute.LicenseDetails{
 //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //      AssignedLicenses: to.Ptr[int32](8),
 //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //      ImmutableID: to.Ptr("<generated Guid>"),
 //      Processors: to.Ptr[int32](6),
 //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //
     },
 //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //     TenantID: to.Ptr("{tenandId}"),
 //    },
 //  }},
 // }
 }
}
```

1.4474 genproto-googleapis-api 0.0.0-20250115164207-1a7da9e5054f

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1.4475 protobuf-go 1.36.3

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// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
}
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package spec

import (
 "encoding/json"

 "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 LicenseProps
 VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}

// UnmarshalJSON
 hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
 if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
  return err
 }
 return json.Unmarshal(data, &l.VendorExtensible)
}
```

```
// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
 b1, err := json.Marshal(l.LicenseProps)
 if err != nil {
  return nil, err
 }
 b2, err := json.Marshal(l.VendorExtensible)
 if err != nil {
  return nil, err
 }
 return swag.ConcatJSON(b1, b2), nil
}
```

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Kubeval - Validate Kubernetes configuration files

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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localtime.go, localtime_test.go:

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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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```
//go:build go1.10
// +build go1.10

package pq

import (
 "context"
 "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
 return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
 c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
//
 on it.
type NoticeHandlerConnector struct {
 driver.Connector
 noticeHandler func(*Error)
```

```
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
 c, err := n.Connector.Connect(ctx)
 if err == nil {
  SetNoticeHandler(c, n.noticeHandler)
 }
 return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  return c.noticeHandler
 }
 return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
 setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  c.noticeHandler = handler
  return c
 }
 return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
```

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package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get               []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
 return &LicenseCodesCallOptions{
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
```

```
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient
 interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient)
 Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
```

```
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption) (*computepb.LicenseCode,
 error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions
}

// NewLicenseCodesRESTClient
 creates a new license codes rest client.
//
// The LicenseCodes API.
```

```
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{"x-goog-api-client", gax.XGoogHeader(kv...)}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
```

```
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return a specified license code. License codes are
 mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for
use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm
 := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }
```

```
  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners
 who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)],
```

```
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
// Copyright 2023 Google LLC
//
// Licensed under the Apache License, Version 2.0 (the "License");
// you may not use this file except in compliance with the License.
// You may obtain a copy of the License at
//
//     https://www.apache.org/licenses/LICENSE-2.0
//
```

```
// Unless required by applicable law or agreed to in writing, software
// distributed under the License is distributed on an "AS IS" BASIS,
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
```

```
 Delete: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 Get: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 GetIamPolicy:
[]gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 Insert: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 List: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 SetIamPolicy: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 TestIamPermissions: []gax.CallOption{
  gax.WithTimeout(600000
```

```
 * time.Millisecond),
  },
 }
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
```

```
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
```

```
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }
```

```
 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{"x-goog-api-client", gax.XGoogHeader(kv...)}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
```

```
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns
 nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds
 = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
```

```
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil
{
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())
```

```
 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx,
 hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
```

```
// GetIamPolicy gets the access control policy for
 a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds
 = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
```

```
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return
nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()
```

```
// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v",
"project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return
err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
```

```
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
  },
 }
 return op, nil
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm
 := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
  }
  if req != nil && req.MaxResults != nil {
   params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
  }
  if req != nil && req.OrderBy != nil {
   params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
  }
  if req !=
 nil && req.PageToken != nil {
   params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
```

```
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return
err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}
```

```
 fetch := func(pageSize int, pageToken string) (string, error) {
  items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
  if err != nil {
   return "", err
  }
  it.items = append(it.items, items...)
  return nextPageToken, nil
 }

 it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
 it.pageInfo.MaxSize = int(req.GetMaxResults())
 it.pageInfo.Token = req.GetPageToken()

 return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption)
 (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
```

```
 e
 := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx
 context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
```

```
 return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }
```

```
 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
 items    []*computepb.License
 pageInfo
 *iterator.PageInfo
 nextFunc func() error

 // Response is the raw response for the current page.
 // It must be cast to the RPC response type.
 // Calling Next() or InternalFetch() updates this value.
 Response interface{}

 // InternalFetch is for use by the Google Cloud Libraries only.
 // It is not part of the stable interface of this package.
 //
 // InternalFetch returns results from a single call to the underlying RPC.
 // The number of results is no greater than pageSize.
 // If there are no more results, nextPageToken is empty and err is nil.
 InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
 return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done,
 all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
 var item *computepb.License
 if err := it.nextFunc(); err != nil {
  return item, err
 }
 item = it.items[0]
```

```
 it.items = it.items[1:]
 return item, nil
}

func (it *LicenseIterator) bufLen() int {
 return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
 b := it.items
 it.items = nil
 return b
}
```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
```

```
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()
```

```
 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
```

```
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
```

```
 _ = resp
 }
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range
 values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown
 in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
```

```
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
```

```
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
```

```
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

1.4481 fileutil v3.5.15

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1.4484 otel-exporters-otlp-otlptrace-otlptracegrpc 1.32.0

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1.4489 github.com/google/gnostic-models 0.6.9

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1.4490 golang 1.23.5

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1.4491 go-iptables 0.8.0

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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
```

```
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
```

```
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
}
resp,
err := c.Get(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_Insert()
```

```
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
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 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
```

```
 resp, err := it.Next()
 if err == iterator.Done {
  break
 }
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp

 // If you need to access the underlying RPC response,
 // you can do so by casting the `Response` as below.
 // Otherwise, remove this line. Only populated after
 // first call to Next(). Not safe for concurrent access.
 _ = it.Response.(*computepb.LicensesListResponse)
}
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically
```

```
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleLicensesClient_List_all() {
 ctx := context.Background()
```

```
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications
 to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 for resp, err := range c.List(ctx, req).All() {
  if err != nil {
   // TODO: Handle error and break/return/continue. Iteration will stop after any error.
  }
  // TODO: Use resp.
  _ = resp
 }
}
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//go:build go1.23

package procurement_test

import (
 "context"

 procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
```

```
 procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
)

func ExampleLicenseManagementClient_EnumerateLicensedUsers_all() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.EnumerateLicensedUsersRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
dUsersRequest.
 }
 for resp, err := range c.EnumerateLicensedUsers(ctx, req).All() {
  if err != nil {
   // TODO: Handle error and break/return/continue. Iteration will stop after any error.
  }
  // TODO: Use resp.
  _ = resp
 }
}

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// versions:
//  protoc-gen-go v1.35.2
//  protoc        v4.25.3
// source: google/cloud/commerce/consumer/procurement/v1/license_management_service.proto

package procurementpb

import (
 context "context"
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 grpc "google.golang.org/grpc"
 codes "google.golang.org/grpc/codes"
 status
```

```
 "google.golang.org/grpc/status"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
 durationpb "google.golang.org/protobuf/types/known/durationpb"
 fieldmaskpb "google.golang.org/protobuf/types/known/fieldmaskpb"
 timestamppb "google.golang.org/protobuf/types/known/timestamppb"
)

const (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Assignment protocol for a license pool.
type AssignmentProtocol struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // The type of assignment protocol.
 //
 // Types that are assignable to AssignmentType:
 //
 // *AssignmentProtocol_ManualAssignmentType_
 // *AssignmentProtocol_AutoAssignmentType_
 AssignmentType
 isAssignmentProtocol_AssignmentType `protobuf_oneof:"assignment_type"`
}

func (x *AssignmentProtocol) Reset() {
 *x = AssignmentProtocol{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol) ProtoMessage() {}

func (x *AssignmentProtocol) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
```

```
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
 []int{0}
}

func (m *AssignmentProtocol) GetAssignmentType() isAssignmentProtocol_AssignmentType {
 if m != nil {
  return m.AssignmentType
 }
 return nil
}

func (x *AssignmentProtocol) GetManualAssignmentType() *AssignmentProtocol_ManualAssignmentType {
 if x, ok := x.GetAssignmentType().(*AssignmentProtocol_ManualAssignmentType_); ok {
  return x.ManualAssignmentType
 }
 return nil
}

func (x *AssignmentProtocol) GetAutoAssignmentType() *AssignmentProtocol_AutoAssignmentType {
 if x, ok := x.GetAssignmentType().(*AssignmentProtocol_AutoAssignmentType_); ok {
  return x.AutoAssignmentType
 }
 return nil
}

type isAssignmentProtocol_AssignmentType interface {
 isAssignmentProtocol_AssignmentType()
}

type AssignmentProtocol_ManualAssignmentType_ struct {
 // Allow manual assignments triggered by administrative operations only.
 ManualAssignmentType *AssignmentProtocol_ManualAssignmentType
`protobuf:"bytes,2,opt,name=manual_assignment_type,json=manualAssignmentType,proto3,oneof"`
}
```

```
type
 AssignmentProtocol_AutoAssignmentType_ struct {
 // Allow automatic assignments triggered by data plane operations.
 AutoAssignmentType *AssignmentProtocol_AutoAssignmentType
`protobuf:"bytes,3,opt,name=auto_assignment_type,json=autoAssignmentType,proto3,oneof"`
}

func (*AssignmentProtocol_ManualAssignmentType_) isAssignmentProtocol_AssignmentType() {}

func (*AssignmentProtocol_AutoAssignmentType_) isAssignmentProtocol_AssignmentType() {}

// A license pool represents a pool of licenses that can be assigned to users.
type LicensePool struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Identifier. Format:
 // `billingAccounts/{billing_account}/orders/{order}/licensePool`
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Required. Assignment protocol for the license pool.
 LicenseAssignmentProtocol *AssignmentProtocol
`protobuf:"bytes,2,opt,name=license_assignment_protocol,json=licenseAssignmentProtocol,proto3"
 json:"license_assignment_protocol,omitempty"`
 // Output only. Licenses count that are available to be assigned.
 AvailableLicenseCount int32
`protobuf:"varint,3,opt,name=available_license_count,json=availableLicenseCount,proto3"
json:"available_license_count,omitempty"`
 // Output only. Total number of licenses in the pool.
 TotalLicenseCount int32 `protobuf:"varint,4,opt,name=total_license_count,json=totalLicenseCount,proto3"
json:"total_license_count,omitempty"`
}

func (x *LicensePool) Reset() {
 *x = LicensePool{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *LicensePool) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*LicensePool) ProtoMessage() {}

func (x *LicensePool) ProtoReflect() protoreflect.Message {
```

```
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
 if
 x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use LicensePool.ProtoReflect.Descriptor instead.
func (*LicensePool) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{1}
}

func (x *LicensePool) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *LicensePool) GetLicenseAssignmentProtocol() *AssignmentProtocol {
 if x != nil {
  return x.LicenseAssignmentProtocol
 }
 return nil
}

func (x *LicensePool) GetAvailableLicenseCount() int32 {
 if x != nil {
  return x.AvailableLicenseCount
 }
 return 0
}

func (x *LicensePool) GetTotalLicenseCount() int32 {
 if x != nil {
  return x.TotalLicenseCount
 }
 return 0
}
```

```
// Request message for getting a
 license pool.
type GetLicensePoolRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. The name of the license pool to get.
 // Format: `billingAccounts/{billing_account}/orders/{order}/licensePool`
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
}

func (x *GetLicensePoolRequest) Reset() {
 *x = GetLicensePoolRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *GetLicensePoolRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*GetLicensePoolRequest) ProtoMessage() {}

func (x *GetLicensePoolRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if
 ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use GetLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*GetLicensePoolRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{2}
}

func (x *GetLicensePoolRequest) GetName() string {
```

```
 if x != nil {
  return x.Name
 }
 return ""
}

// Request message for updating a license pool.
type UpdateLicensePoolRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. The license pool to update.
 //
 // The license pool's name field is used to identify the license pool to
 // update. Format:
 // `billingAccounts/{billing_account}/orders/{order}/licensePool`.
 LicensePool *LicensePool `protobuf:"bytes,1,opt,name=license_pool,json=licensePool,proto3"
json:"license_pool,omitempty"`
 //
 Required. The list of fields to update.
 UpdateMask *fieldmaskpb.FieldMask `protobuf:"bytes,2,opt,name=update_mask,json=updateMask,proto3"
json:"update_mask,omitempty"`
}

func (x *UpdateLicensePoolRequest) Reset() {
 *x = UpdateLicensePoolRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *UpdateLicensePoolRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*UpdateLicensePoolRequest) ProtoMessage() {}

func (x *UpdateLicensePoolRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
```

```
 }
 return mi.MessageOf(x)
}

// Deprecated: Use UpdateLicensePoolRequest.ProtoReflect.Descriptor
 instead.
func (*UpdateLicensePoolRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{3}
}

func (x *UpdateLicensePoolRequest) GetLicensePool() *LicensePool {
 if x != nil {
  return x.LicensePool
 }
 return nil
}

func (x *UpdateLicensePoolRequest) GetUpdateMask() *fieldmaskpb.FieldMask {
 if x != nil {
  return x.UpdateMask
 }
 return nil
}

// Request message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementServic
e.Assign].
type AssignRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. License pool name.
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Required. Username.
 // Format: `name@domain.com`.
 Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func
 (x *AssignRequest) Reset() {
 *x = AssignRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
```

```
 ms.StoreMessageInfo(mi)
}

func (x *AssignRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignRequest) ProtoMessage() {}

func (x *AssignRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignRequest.ProtoReflect.Descriptor instead.
func (*AssignRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{4}
}

func (x *AssignRequest) GetParent()
 string {
 if x != nil {
  return x.Parent
 }
 return ""
}

func (x *AssignRequest) GetUsernames() []string {
 if x != nil {
  return x.Usernames
 }
 return nil
}

// Response message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementServic
e.Assign].
```

```
type AssignResponse struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
}

func (x *AssignResponse) Reset() {
 *x = AssignResponse{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignResponse) ProtoMessage() {}

func (x *AssignResponse) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
 if x
 != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignResponse.ProtoReflect.Descriptor instead.
func (*AssignResponse) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{5}
}

// Request message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
```

```
 unknownFields protoimpl.UnknownFields

 // Required. License pool name.
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Required. Username.
 // Format: `name@domain.com`.
 Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func (x *UnassignRequest) Reset()
 {
 *x = UnassignRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *UnassignRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*UnassignRequest) ProtoMessage() {}

func (x *UnassignRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use UnassignRequest.ProtoReflect.Descriptor instead.
func (*UnassignRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{6}
}

func (x *UnassignRequest) GetParent() string {
 if x != nil {
  return
```

```
 x.Parent
 }
 return ""
}

func (x *UnassignRequest) GetUsernames() []string {
 if x != nil {
  return x.Usernames
 }
 return nil
}

// Response message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignResponse struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
}

func (x *UnassignResponse) Reset() {
 *x = UnassignResponse{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *UnassignResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*UnassignResponse) ProtoMessage() {}

func (x *UnassignResponse) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
 if x != nil {
  ms
 := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
```

```
}

// Deprecated: Use UnassignResponse.ProtoReflect.Descriptor instead.
func (*UnassignResponse) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{7}
}

// Request message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. License pool name.
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Optional. The maximum number of users to return. The service may return
 // fewer than this value.
 PageSize int32 `protobuf:"varint,2,opt,name=page_size,json=pageSize,proto3"
 json:"page_size,omitempty"`
 // Optional. A page token, received from a previous `EnumerateLicensedUsers`
 // call. Provide this to retrieve the subsequent page.
 PageToken string `protobuf:"bytes,3,opt,name=page_token,json=pageToken,proto3" json:"page_token,omitempty"`
}

func (x *EnumerateLicensedUsersRequest) Reset() {
 *x = EnumerateLicensedUsersRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersRequest) ProtoMessage() {}

func (x *EnumerateLicensedUsersRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
```

```
 if ms.LoadMessageInfo()
 == nil {
  ms.StoreMessageInfo(mi)
 }
 return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersRequest.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersRequest) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{8}
}

func (x *EnumerateLicensedUsersRequest) GetParent() string {
if x != nil {
 return x.Parent
}
return ""
}

func (x *EnumerateLicensedUsersRequest) GetPageSize() int32 {
if x != nil {
 return x.PageSize
}
return 0
}

func (x *EnumerateLicensedUsersRequest) GetPageToken() string {
if x != nil {
 return x.PageToken
}
return ""
}

// A licensed user.
type LicensedUser struct {
state         protoimpl.MessageState
sizeCache     protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// Username.
// Format: `name@domain.com`.
Username string `protobuf:"bytes,1,opt,name=username,proto3" json:"username,omitempty"`
//
```

```
 Output only. Timestamp when the license was assigned.
 AssignTime *timestamppb.Timestamp `protobuf:"bytes,2,opt,name=assign_time,json=assignTime,proto3"
json:"assign_time,omitempty"`
 // Output only. Timestamp when the license was recently used. This may not be
 // the most recent usage time, and will be updated regularly (within 24
 // hours).
 RecentUsageTime *timestamppb.Timestamp
`protobuf:"bytes,3,opt,name=recent_usage_time,json=recentUsageTime,proto3"
json:"recent_usage_time,omitempty"`
}

func (x *LicensedUser) Reset() {
 *x = LicensedUser{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *LicensedUser) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*LicensedUser) ProtoMessage() {}

func (x *LicensedUser) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
 if
 x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use LicensedUser.ProtoReflect.Descriptor instead.
func (*LicensedUser) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{9}
}

func (x *LicensedUser) GetUsername() string {
 if x != nil {
```

```
  return x.Username
 }
 return ""
}

func (x *LicensedUser) GetAssignTime() *timestamppb.Timestamp {
 if x != nil {
  return x.AssignTime
 }
 return nil
}

func (x *LicensedUser) GetRecentUsageTime() *timestamppb.Timestamp {
 if x != nil {
  return x.RecentUsageTime
 }
 return nil
}

// Response message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersResponse
 struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // The list of licensed users.
 LicensedUsers []*LicensedUser `protobuf:"bytes,1,rep,name=licensed_users,json=licensedUsers,proto3"
json:"licensed_users,omitempty"`
 // A token that can be sent as `page_token` to retrieve the next page.
 // If this field is omitted, there are no subsequent pages.
 NextPageToken string `protobuf:"bytes,2,opt,name=next_page_token,json=nextPageToken,proto3"
json:"next_page_token,omitempty"`
}

func (x *EnumerateLicensedUsersResponse) Reset() {
 *x = EnumerateLicensedUsersResponse{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
```

```
}

func (*EnumerateLicensedUsersResponse) ProtoMessage() {}

func
 (x *EnumerateLicensedUsersResponse) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersResponse.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersResponse) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{10}
}

func (x *EnumerateLicensedUsersResponse) GetLicensedUsers() []*LicensedUser {
 if x != nil {
  return x.LicensedUsers
 }
 return nil
}

func (x *EnumerateLicensedUsersResponse) GetNextPageToken() string {
 if x != nil {
  return x.NextPageToken
 }
 return ""
}

// Allow manual assignments triggered by administrative operations only.
type AssignmentProtocol_ManualAssignmentType
 struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
}

func (x *AssignmentProtocol_ManualAssignmentType) Reset() {
```

```
 *x = AssignmentProtocol_ManualAssignmentType{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_ManualAssignmentType) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_ManualAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_ManualAssignmentType) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated:
 Use AssignmentProtocol_ManualAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_ManualAssignmentType) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{0, 0}
}

// Configuration for automatic assignments handled by data plane operations.
type AssignmentProtocol_AutoAssignmentType struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Optional. The time to live for an inactive license. After this time has
 // passed, the license will be automatically unassigned from the user. Must
 // be at least 7 days, if set. If unset, the license will never expire.
 InactiveLicenseTtl *durationpb.Duration
`protobuf:"bytes,1,opt,name=inactive_license_ttl,json=inactiveLicenseTtl,proto3"
json:"inactive_license_ttl,omitempty"`
}
```

```
func (x *AssignmentProtocol_AutoAssignmentType) Reset() {
 *x = AssignmentProtocol_AutoAssignmentType{}
 mi
 := &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_AutoAssignmentType) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_AutoAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_AutoAssignmentType) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol_AutoAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_AutoAssignmentType) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
 []int{0, 1}
}

func (x *AssignmentProtocol_AutoAssignmentType) GetInactiveLicenseTtl() *durationpb.Duration {
 if x != nil {
  return x.InactiveLicenseTtl
 }
 return nil
}

var File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto
protoreflect.FileDescriptor

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc =
[]byte{
 0x0a, 0x4e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2f, 0x63,
 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
```

0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x76, 0x31, 0x2f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x6d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x5f, 0x73, 0x65, 0x72, 0x76, 0x69, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x2d, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f,
0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x1a, 0x1c, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x61, 0x6e, 0x6e, 0x6f, 0x74, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x73, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x17, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x63, 0x6c, 0x69, 0x65, 0x6e, 0x74, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x62, 0x75, 0x66, 0x2f, 0x64,
0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x2e, 0x70, 0x72, 0x6f,
0x74, 0x6f, 0x1a, 0x20, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x62, 0x75, 0x66, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x6d, 0x61, 0x73, 0x6b, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x62, 0x75, 0x66, 0x2f, 0x74, 0x69, 0x6d, 0x65, 0x73, 0x74, 0x61, 0x6d, 0x70, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0xc3, 0x03, 0x0a, 0x12, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x8e, 0x01, 0x0a, 0x16, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x56, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73,
0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70,
0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x2e, 0x4d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x48, 0x00, 0x52, 0x14, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x88, 0x01, 0x0a, 0x14, 0x61, 0x75, 0x74, 0x6f, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x03, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x54, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73, 0x73,
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}

var (
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce
sync.Once
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
 = file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc
)

func
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP()
[]byte {
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce.Do(f
unc() {
  file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_cloud_commerce_consumer_procurement_v1_license_management_servi
ce_proto_rawDescData)
 })
 return file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
}

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes =
make([]protoimpl.MessageInfo, 13)
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes =
```

```
[]any{
 (*AssignmentProtocol)(nil),
                    // 0: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
 (*LicensePool)(nil),                        // 1: google.cloud.commerce.consumer.procurement.v1.LicensePool
 (*GetLicensePoolRequest)(nil),                  // 2:
google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
 (*UpdateLicensePoolRequest)(nil),               // 3:
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
 (*AssignRequest)(nil),                      // 4: google.cloud.commerce.consumer.procurement.v1.AssignRequest
 (*AssignResponse)(nil),                      // 5: google.cloud.commerce.consumer.procurement.v1.AssignResponse
 (*UnassignRequest)(nil),                     // 6: google.cloud.commerce.consumer.procurement.v1.UnassignRequest
 (*UnassignResponse)(nil),                     // 7: google.cloud.commerce.consumer.procurement.v1.UnassignResponse
 (*EnumerateLicensedUsersRequest)(nil),          // 8:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
 (*LicensedUser)(nil),
                        // 9: google.cloud.commerce.consumer.procurement.v1.LicensedUser
 (*EnumerateLicensedUsersResponse)(nil),         // 10:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
 (*AssignmentProtocol_ManualAssignmentType)(nil), // 11:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
 (*AssignmentProtocol_AutoAssignmentType)(nil),   // 12:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
 (*fieldmaskpb.FieldMask)(nil),                  // 13: google.protobuf.FieldMask
 (*timestamppb.Timestamp)(nil),                   // 14: google.protobuf.Timestamp
 (*durationpb.Duration)(nil),                    // 15: google.protobuf.Duration
}
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs =
[]int32{
 11, // 0:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.manual_assignment_type:type_name
 -> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
 12, // 1: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.auto_assignment_type:type_name -
> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
 0,  // 2: google.cloud.commerce.consumer.procurement.v1.LicensePool.license_assignment_protocol:type_name ->
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
 1,  // 3: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.license_pool:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 13, // 4: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.update_mask:type_name ->
google.protobuf.FieldMask
 14, // 5: google.cloud.commerce.consumer.procurement.v1.LicensedUser.assign_time:type_name ->
google.protobuf.Timestamp
 14, // 6: google.cloud.commerce.consumer.procurement.v1.LicensedUser.recent_usage_time:type_name
 -> google.protobuf.Timestamp
 9,  // 7:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse.licensed_users:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensedUser
 15, // 8:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType.inactive_license_ttl:t
```

```
ype_name -> google.protobuf.Duration
 2,  // 9: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:input_type -
> google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
 3,  // 10:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:input_type ->
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
 4,  // 11: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:input_type ->
google.cloud.commerce.consumer.procurement.v1.AssignRequest
 6,  // 12: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:input_type
 -> google.cloud.commerce.consumer.procurement.v1.UnassignRequest
 8,  // 13:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:input_typ
e -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
 1,  // 14:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 1,  // 15:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 5,  // 16: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:output_type ->
google.cloud.commerce.consumer.procurement.v1.AssignResponse
 7,  // 17: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:output_type ->
google.cloud.commerce.consumer.procurement.v1.UnassignResponse
 10, // 18:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:output_ty
pe
 -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
 14, // [14:19] is the sub-list for method output_type
 9,  // [9:14] is the sub-list for method input_type
 9,  // [9:9] is the sub-list for extension type_name
 9,  // [9:9] is the sub-list for extension extendee
 0,  // [0:9] is the sub-list for field type_name
}

func init() {
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init()
}
func file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init() {
 if File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto != nil {
  return
 }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].Oneof
Wrappers = []any{
  (*AssignmentProtocol_ManualAssignmentType_)(nil),
  (*AssignmentProtocol_AutoAssignmentType_)(nil),
 }
 type x struct{}
 out := protoimpl.TypeBuilder{
```

```
  File:
 protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc,
   NumEnums:      0,
   NumMessages:   13,
   NumExtensions: 0,
   NumServices:   1,
  },
  GoTypes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes,
  DependencyIndexes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs,
  MessageInfos:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes,
 }.Build()
 File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto = out.File
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc = nil
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes = nil
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs
 = nil
}

// Reference imports to suppress errors if they are not otherwise used.
var _ context.Context
var _ grpc.ClientConnInterface

// This is a compile-time assertion to ensure that this generated file
// is compatible with the grpc package it is being compiled against.
const _ = grpc.SupportPackageIsVersion6

// LicenseManagementServiceClient is the client API for LicenseManagementService service.
//
// For semantics around ctx use and closing/ending streaming RPCs, please refer to
https://godoc.org/google.golang.org/grpc#ClientConn.NewStream.
type LicenseManagementServiceClient interface {
 // Gets the license pool.
 GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
 // Updates the license pool if one exists for this Order.
 UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool,
error)
 // Assigns a license to a user.
 Assign(ctx
 context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error)
 // Unassigns a license from a user.
 Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error)
 // Enumerates all users assigned a license.
```

```
 EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption)
(*EnumerateLicensedUsersResponse, error)
}

type licenseManagementServiceClient struct {
 cc grpc.ClientConnInterface
}

func NewLicenseManagementServiceClient(cc grpc.ClientConnInterface) LicenseManagementServiceClient {
 return &licenseManagementServiceClient{cc}
}

func (c *licenseManagementServiceClient) GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts
...grpc.CallOption) (*LicensePool, error) {
 out := new(LicensePool)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool", in, out, opts...)
 if err != nil {
  return nil, err
 }
 return
 out, nil
}

func (c *licenseManagementServiceClient) UpdateLicensePool(ctx context.Context, in
*UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
 out := new(LicensePool)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool", in, out,
opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

func (c *licenseManagementServiceClient) Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption)
(*AssignResponse, error) {
 out := new(AssignResponse)
 err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign", in,
out, opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

func (c *licenseManagementServiceClient) Unassign(ctx context.Context, in *UnassignRequest, opts
```

```
...grpc.CallOption) (*UnassignResponse, error) {
 out := new(UnassignResponse)
 err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
 in, out, opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

func (c *licenseManagementServiceClient) EnumerateLicensedUsers(ctx context.Context, in
*EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error) {
 out := new(EnumerateLicensedUsersResponse)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers", in, out,
opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

// LicenseManagementServiceServer is the server API for LicenseManagementService service.
type LicenseManagementServiceServer interface {
 // Gets the license pool.
 GetLicensePool(context.Context, *GetLicensePoolRequest) (*LicensePool, error)
 // Updates the license pool if one exists for this Order.
 UpdateLicensePool(context.Context, *UpdateLicensePoolRequest) (*LicensePool, error)
 // Assigns a license to a user.
 Assign(context.Context, *AssignRequest)
 (*AssignResponse, error)
 // Unassigns a license from a user.
 Unassign(context.Context, *UnassignRequest) (*UnassignResponse, error)
 // Enumerates all users assigned a license.
 EnumerateLicensedUsers(context.Context, *EnumerateLicensedUsersRequest)
(*EnumerateLicensedUsersResponse, error)
}

// UnimplementedLicenseManagementServiceServer can be embedded to have forward compatible
implementations.
type UnimplementedLicenseManagementServiceServer struct {
}

func (*UnimplementedLicenseManagementServiceServer) GetLicensePool(context.Context,
*GetLicensePoolRequest) (*LicensePool, error) {
 return nil, status.Errorf(codes.Unimplemented, "method GetLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) UpdateLicensePool(context.Context,
```

```
*UpdateLicensePoolRequest) (*LicensePool, error) {
 return nil, status.Errorf(codes.Unimplemented, "method UpdateLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Assign(context.Context, *AssignRequest)
 (*AssignResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method Assign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Unassign(context.Context, *UnassignRequest)
(*UnassignResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method Unassign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) EnumerateLicensedUsers(context.Context,
*EnumerateLicensedUsersRequest) (*EnumerateLicensedUsersResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method EnumerateLicensedUsers not implemented")
}

func RegisterLicenseManagementServiceServer(s *grpc.Server, srv LicenseManagementServiceServer) {
 s.RegisterService(&_LicenseManagementService_serviceDesc, srv)
}

func _LicenseManagementService_GetLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(GetLicensePoolRequest)
 if err := dec(in);
 err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, req.(*GetLicensePoolRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_UpdateLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(UpdateLicensePoolRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, in)
```

```
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool",
 }
 handler
 := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, req.(*UpdateLicensePoolRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Assign_Handler(srv interface{}, ctx context.Context, dec func(interface{})
error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(AssignRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).Assign(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).Assign(ctx, req.(*AssignRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Unassign_Handler(srv
 interface{}, ctx context.Context, dec func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{},
error) {
 in := new(UnassignRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).Unassign(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).Unassign(ctx, req.(*UnassignRequest))
 }
```

```
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_EnumerateLicensedUsers_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(EnumerateLicensedUsersRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if
 interceptor == nil {
  return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod:
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx,
req.(*EnumerateLicensedUsersRequest))
 }
 return interceptor(ctx, in, info, handler)
}

var _LicenseManagementService_serviceDesc = grpc.ServiceDesc{
 ServiceName: "google.cloud.commerce.consumer.procurement.v1.LicenseManagementService",
 HandlerType: (*LicenseManagementServiceServer)(nil),
 Methods: []grpc.MethodDesc{
  {
   MethodName: "GetLicensePool",
   Handler:    _LicenseManagementService_GetLicensePool_Handler,
  },
  {
   MethodName: "UpdateLicensePool",
   Handler:    _LicenseManagementService_UpdateLicensePool_Handler,
  },
  {
   MethodName: "Assign",
   Handler:
    _LicenseManagementService_Assign_Handler,
  },
  {
   MethodName: "Unassign",
   Handler:    _LicenseManagementService_Unassign_Handler,
  },
  {
   MethodName: "EnumerateLicensedUsers",
```

```
  Handler:    _LicenseManagementService_EnumerateLicensedUsers_Handler,
  },
 },
 Streams:  []grpc.StreamDesc{},
 Metadata: "google/cloud/commerce/consumer/procurement/v1/license_management_service.proto",
}
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "log/slog"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var
 newLicensesClientHook clientHook
```

```
// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
```

```
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 SetIamPolicy: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 TestIamPermissions: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
}
}

//
 internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}
```

```
// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection
 to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty
 if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
```

party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses,
 use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners
 who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient

```
 CallOptions **LicensesCallOptions

 logger *slog.Logger
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
  logger:      internaloption.GetLogger(opts),
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
```

```
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient
 with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }
```

```
 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client
 and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Delete")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf,
 resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}
```

```
// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders,
 hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
```

```
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
 exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds,
 "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetIamPolicy")
  if err != nil {
   return err
```

```
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended
 for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx,
 hds...)
 opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
```

```
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Insert")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// List retrieves the
 list of licenses available in the specified project. This method does not get any licenses that belong to other projects,
including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available
licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
```

```
 req.PageToken = proto.String(pageToken)
 }
 if pageSize > math.MaxInt32
{
 req.MaxResults = proto.Uint32(uint32(math.MaxInt32))
 } else if pageSize != 0 {
 req.MaxResults = proto.Uint32(uint32(pageSize))
 }
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
 return nil, "", err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.Filter != nil {
 params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
 }
 if req != nil && req.MaxResults != nil {
 params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
 }
 if req != nil && req.OrderBy != nil {
 params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req != nil && req.PageToken != nil {
 params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
 params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from
client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq.Header = headers

 buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "List")
```

```
  if err != nil {
   return err
  }
  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken,
nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
```

```
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds
 := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()),
"resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "SetIamPolicy")
  if err != nil {
   return err
  }

  if
 err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
```

```
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
  if err !=
 nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
```

```
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
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//     https://www.apache.org/licenses/LICENSE-2.0
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// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()
```

```
 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
```

```
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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//     https://www.apache.org/licenses/LICENSE-2.0
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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package procurement_test

import (
 "context"

 procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
 procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
 longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicenseManagementClient() {
 ctx
 := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()
```

```
 // TODO: Use client.
 _ = c
}

func ExampleNewLicenseManagementRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c,
 err := procurement.NewLicenseManagementRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseManagementClient_Assign() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.AssignRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#AssignRequest.
 }
 resp, err := c.Assign(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 //
 TODO: Use resp.
 _ = resp
}
```

```
func ExampleLicenseManagementClient_EnumerateLicensedUsers() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.EnumerateLicensedUsersRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
dUsersRequest.
 }
 it := c.EnumerateLicensedUsers(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  //
 TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*procurementpb.EnumerateLicensedUsersResponse)
 }
}

func ExampleLicenseManagementClient_GetLicensePool() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
```

```
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.GetLicensePoolRequest{
  // TODO: Fill request struct fields.
  //
 See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#GetLicensePoolRe
quest.
 }
 resp, err := c.GetLicensePool(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_Unassign() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.UnassignRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UnassignRequest.
 }
 resp,
 err := c.Unassign(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

```
func ExampleLicenseManagementClient_UpdateLicensePool() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.UpdateLicensePoolRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UpdateLicensePoo
lRequest.
 }
 resp, err := c.UpdateLicensePool(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 //
 TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_GetOperation() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &longrunningpb.GetOperationRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/longrunning/autogen/longrunningpb#GetOperationRequest.
 }
 resp, err := c.GetOperation(ctx, req)
 if err != nil {
  // TODO: Handle error.
```

```
 }
 // TODO: Use resp.
 _ = resp
}
```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"
```

```
 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
```

```
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
```

```
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
```

```
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
 {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if x != nil {
```

```
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var
 File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
```

0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f,
0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69,
0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
0x01, 0x01, 0x12,
0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54,
0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69,
0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,

```
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f,
 0x72, 0x6f, 0x6c, 0x65, 0x42,
 0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72,
 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = []any{
 (Permission_GranteeType)(0),
 // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
```

```
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func file_google_ai_generativelanguage_v1beta_permission_proto_init()
 {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:          file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:         file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
```

1.4493 go.opentelemetry.io/proto/otlp 1.4.0

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1.4494 semver 3.2.1

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1.4495 cloud.google.com/go/auth/oauth2adapt 0.2.6

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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}
```

```
func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
```

```
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
```

```
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
```

```
 _ = it.Response.(*computepb.LicensesListResponse)
 }
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
```

```
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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//go:build go1.23

package procurement_test

import (
 "context"

 procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
 procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
)

func ExampleLicenseManagementClient_EnumerateLicensedUsers_all() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()
```

```
 req := &procurementpb.EnumerateLicensedUsersRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
dUsersRequest.
 }
 for resp, err := range c.EnumerateLicensedUsers(ctx, req).All() {
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
 }
}
```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.34.2
//  protoc        v4.25.3
// source: google/cloud/commerce/consumer/procurement/v1/license_management_service.proto

package procurementpb

import (
 context "context"
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 grpc "google.golang.org/grpc"
 codes "google.golang.org/grpc/codes"
 status
 "google.golang.org/grpc/status"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
 durationpb "google.golang.org/protobuf/types/known/durationpb"
 fieldmaskpb "google.golang.org/protobuf/types/known/fieldmaskpb"
 timestamppb "google.golang.org/protobuf/types/known/timestamppb"
```

```
)

const (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Assignment protocol for a license pool.
type AssignmentProtocol struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // The type of assignment protocol.
 //
 // Types that are assignable to AssignmentType:
 //
 // *AssignmentProtocol_ManualAssignmentType_
 // *AssignmentProtocol_AutoAssignmentType_
 AssignmentType
 isAssignmentProtocol_AssignmentType `protobuf_oneof:"assignment_type"`
}

func (x *AssignmentProtocol) Reset() {
 *x = AssignmentProtocol{}
 if protoimpl.UnsafeEnabled {
  mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *AssignmentProtocol) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol) ProtoMessage() {}

func (x *AssignmentProtocol) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
```

```
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol) Descriptor() ([]byte,
 []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{0}
}

func (m *AssignmentProtocol) GetAssignmentType() isAssignmentProtocol_AssignmentType {
 if m != nil {
  return m.AssignmentType
 }
 return nil
}

func (x *AssignmentProtocol) GetManualAssignmentType() *AssignmentProtocol_ManualAssignmentType {
 if x, ok := x.GetAssignmentType().(*AssignmentProtocol_ManualAssignmentType_); ok {
  return x.ManualAssignmentType
 }
 return nil
}

func (x *AssignmentProtocol) GetAutoAssignmentType() *AssignmentProtocol_AutoAssignmentType {
 if x, ok := x.GetAssignmentType().(*AssignmentProtocol_AutoAssignmentType_); ok {
  return x.AutoAssignmentType
 }
 return nil
}

type isAssignmentProtocol_AssignmentType interface {
 isAssignmentProtocol_AssignmentType()
}

type AssignmentProtocol_ManualAssignmentType_ struct {
 // Allow manual assignments triggered by administrative operations only.
 ManualAssignmentType *AssignmentProtocol_ManualAssignmentType
 `protobuf:"bytes,2,opt,name=manual_assignment_type,json=manualAssignmentType,proto3,oneof"`
}

type AssignmentProtocol_AutoAssignmentType_ struct {
 // Allow automatic assignments triggered by data plane operations.
 AutoAssignmentType *AssignmentProtocol_AutoAssignmentType
```

```
`protobuf:"bytes,3,opt,name=auto_assignment_type,json=autoAssignmentType,proto3,oneof"`
}

func (*AssignmentProtocol_ManualAssignmentType_) isAssignmentProtocol_AssignmentType() {}

func (*AssignmentProtocol_AutoAssignmentType_) isAssignmentProtocol_AssignmentType() {}

// A license pool represents a pool of licenses that can be assigned to users.
type LicensePool struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Identifier. Format:
 // `billingAccounts/{billing_account}/orders/{order}/licensePool`
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Required. Assignment protocol for the license
 pool.
 LicenseAssignmentProtocol *AssignmentProtocol
`protobuf:"bytes,2,opt,name=license_assignment_protocol,json=licenseAssignmentProtocol,proto3"
json:"license_assignment_protocol,omitempty"`
 // Output only. Licenses count that are available to be assigned.
 AvailableLicenseCount int32
`protobuf:"varint,3,opt,name=available_license_count,json=availableLicenseCount,proto3"
json:"available_license_count,omitempty"`
 // Output only. Total number of licenses in the pool.
 TotalLicenseCount int32 `protobuf:"varint,4,opt,name=total_license_count,json=totalLicenseCount,proto3"
json:"total_license_count,omitempty"`
}

func (x *LicensePool) Reset() {
 *x = LicensePool{}
 if protoimpl.UnsafeEnabled {
  mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *LicensePool) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*LicensePool)
 ProtoMessage() {}

func (x *LicensePool) ProtoReflect() protoreflect.Message {
```

```
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use LicensePool.ProtoReflect.Descriptor instead.
func (*LicensePool) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{1}
}

func (x *LicensePool) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *LicensePool) GetLicenseAssignmentProtocol() *AssignmentProtocol {
 if x != nil {
  return x.LicenseAssignmentProtocol
 }
 return nil
}

func (x *LicensePool) GetAvailableLicenseCount() int32 {
 if x != nil {
  return x.AvailableLicenseCount
 }
 return 0
}

func (x *LicensePool)
 GetTotalLicenseCount() int32 {
 if x != nil {
  return x.TotalLicenseCount
 }
 return 0
}
```

```
// Request message for getting a license pool.
type GetLicensePoolRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. The name of the license pool to get.
 // Format: `billingAccounts/{billing_account}/orders/{order}/licensePool`
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
}

func (x *GetLicensePoolRequest) Reset() {
 *x = GetLicensePoolRequest{}
 if protoimpl.UnsafeEnabled {
  mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *GetLicensePoolRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*GetLicensePoolRequest) ProtoMessage() {}

func (x *GetLicensePoolRequest) ProtoReflect() protoreflect.Message
 {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use GetLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*GetLicensePoolRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{2}
}
```

```
func (x *GetLicensePoolRequest) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

// Request message for updating a license pool.
type UpdateLicensePoolRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. The license pool to update.
 //
 // The license pool's name field is used to identify the license pool to
 // update. Format:
 //
 `billingAccounts/{billing_account}/orders/{order}/licensePool`.
 LicensePool *LicensePool `protobuf:"bytes,1,opt,name=license_pool,json=licensePool,proto3"
json:"license_pool,omitempty"`
 // Required. The list of fields to update.
 UpdateMask *fieldmaskpb.FieldMask `protobuf:"bytes,2,opt,name=update_mask,json=updateMask,proto3"
json:"update_mask,omitempty"`
}

func (x *UpdateLicensePoolRequest) Reset() {
 *x = UpdateLicensePoolRequest{}
 if protoimpl.UnsafeEnabled {
  mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *UpdateLicensePoolRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*UpdateLicensePoolRequest) ProtoMessage() {}

func (x *UpdateLicensePoolRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
 if
 protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
```

```
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use UpdateLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*UpdateLicensePoolRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{3}
}

func (x *UpdateLicensePoolRequest) GetLicensePool() *LicensePool {
 if x != nil {
  return x.LicensePool
 }
 return nil
}

func (x *UpdateLicensePoolRequest) GetUpdateMask() *fieldmaskpb.FieldMask {
 if x != nil {
  return x.UpdateMask
 }
 return nil
}

// Request message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementServic
e.Assign].
type AssignRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 //
 Required. License pool name.
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Required. Username.
 // Format: `name@domain.com`.
 Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func (x *AssignRequest) Reset() {
 *x = AssignRequest{}
```

```
 if protoimpl.UnsafeEnabled {
  mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *AssignRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignRequest) ProtoMessage() {}

func (x *AssignRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return
 ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignRequest.ProtoReflect.Descriptor instead.
func (*AssignRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{4}
}

func (x *AssignRequest) GetParent() string {
 if x != nil {
  return x.Parent
 }
 return ""
}

func (x *AssignRequest) GetUsernames() []string {
 if x != nil {
  return x.Usernames
 }
 return nil
}
```

```
// Response message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementServic
e.Assign].
type AssignResponse struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
}

func (x *AssignResponse) Reset() {
 *x = AssignResponse{}
 if protoimpl.UnsafeEnabled {
  mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func
 (x *AssignResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignResponse) ProtoMessage() {}

func (x *AssignResponse) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignResponse.ProtoReflect.Descriptor instead.
func (*AssignResponse) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{5}
}
```

```
// Request message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignRequest struct {
 state         protoimpl.MessageState
 sizeCache
     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. License pool name.
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Required. Username.
 // Format: `name@domain.com`.
 Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func (x *UnassignRequest) Reset() {
 *x = UnassignRequest{}
 if protoimpl.UnsafeEnabled {
  mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *UnassignRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*UnassignRequest) ProtoMessage() {}

func (x *UnassignRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if
 ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use UnassignRequest.ProtoReflect.Descriptor instead.
```

```
func (*UnassignRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{6}
}

func (x *UnassignRequest) GetParent() string {
 if x != nil {
  return x.Parent
 }
 return ""
}

func (x *UnassignRequest) GetUsernames() []string {
 if x != nil {
  return x.Usernames
 }
 return nil
}

// Response message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignResponse struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
}

func (x *UnassignResponse) Reset() {
 *x = UnassignResponse{}
 if protoimpl.UnsafeEnabled {
  mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
  ms
 := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *UnassignResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*UnassignResponse) ProtoMessage() {}

func (x *UnassignResponse) ProtoReflect() protoreflect.Message {
```

```
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use UnassignResponse.ProtoReflect.Descriptor instead.
func (*UnassignResponse) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{7}
}

// Request message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type
 EnumerateLicensedUsersRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. License pool name.
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Optional. The maximum number of users to return. The service may return
 // fewer than this value.
 PageSize int32 `protobuf:"varint,2,opt,name=page_size,json=pageSize,proto3" json:"page_size,omitempty"`
 // Optional. A page token, received from a previous `EnumerateLicensedUsers`
 // call. Provide this to retrieve the subsequent page.
 PageToken string `protobuf:"bytes,3,opt,name=page_token,json=pageToken,proto3" json:"page_token,omitempty"`
}

func (x *EnumerateLicensedUsersRequest) Reset() {
 *x = EnumerateLicensedUsersRequest{}
 if protoimpl.UnsafeEnabled {
  mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
  ms
 := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
```

```
}

func (x *EnumerateLicensedUsersRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersRequest) ProtoMessage() {}

func (x *EnumerateLicensedUsersRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersRequest.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{8}
}

func (x *EnumerateLicensedUsersRequest) GetParent() string {
 if
 x != nil {
  return x.Parent
 }
 return ""
}

func (x *EnumerateLicensedUsersRequest) GetPageSize() int32 {
 if x != nil {
  return x.PageSize
 }
 return 0
}

func (x *EnumerateLicensedUsersRequest) GetPageToken() string {
 if x != nil {
  return x.PageToken
 }
 return ""
```

```
}

// A licensed user.
type LicensedUser struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Username.
 // Format: `name@domain.com`.
 Username string `protobuf:"bytes,1,opt,name=username,proto3" json:"username,omitempty"`
 // Output only. Timestamp when the license was assigned.
 AssignTime *timestamppb.Timestamp `protobuf:"bytes,2,opt,name=assign_time,json=assignTime,proto3"
json:"assign_time,omitempty"`
 // Output only. Timestamp when the license was recently used. This may not be
 // the most recent usage time, and will be updated regularly (within 24
 // hours).
 RecentUsageTime *timestamppb.Timestamp
`protobuf:"bytes,3,opt,name=recent_usage_time,json=recentUsageTime,proto3"
 json:"recent_usage_time,omitempty"`
}

func (x *LicensedUser) Reset() {
 *x = LicensedUser{}
 if protoimpl.UnsafeEnabled {
  mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *LicensedUser) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*LicensedUser) ProtoMessage() {}

func (x *LicensedUser) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
```

```
 return mi.MessageOf(x)
}

// Deprecated: Use LicensedUser.ProtoReflect.Descriptor instead.
func (*LicensedUser) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
 []int{9}
}

func (x *LicensedUser) GetUsername() string {
 if x != nil {
  return x.Username
 }
 return ""
}

func (x *LicensedUser) GetAssignTime() *timestamppb.Timestamp {
 if x != nil {
  return x.AssignTime
 }
 return nil
}

func (x *LicensedUser) GetRecentUsageTime() *timestamppb.Timestamp {
 if x != nil {
  return x.RecentUsageTime
 }
 return nil
}

// Response message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersResponse struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // The list of licensed users.
 LicensedUsers []*LicensedUser `protobuf:"bytes,1,rep,name=licensed_users,json=licensedUsers,proto3"
json:"licensed_users,omitempty"`
 // A token that can be sent as `page_token` to retrieve the next page.
 //
 If this field is omitted, there are no subsequent pages.
 NextPageToken string `protobuf:"bytes,2,opt,name=next_page_token,json=nextPageToken,proto3"
json:"next_page_token,omitempty"`
```

```
}

func (x *EnumerateLicensedUsersResponse) Reset() {
 *x = EnumerateLicensedUsersResponse{}
 if protoimpl.UnsafeEnabled {
  mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *EnumerateLicensedUsersResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersResponse) ProtoMessage() {}

func (x *EnumerateLicensedUsersResponse) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return
 ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersResponse.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersResponse) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{10}
}

func (x *EnumerateLicensedUsersResponse) GetLicensedUsers() []*LicensedUser {
 if x != nil {
  return x.LicensedUsers
 }
 return nil
}

func (x *EnumerateLicensedUsersResponse) GetNextPageToken() string {
 if x != nil {
```

```
  return x.NextPageToken
 }
 return ""
}

// Allow manual assignments triggered by administrative operations only.
type AssignmentProtocol_ManualAssignmentType struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
}

func (x *AssignmentProtocol_ManualAssignmentType) Reset() {
 *x = AssignmentProtocol_ManualAssignmentType{}
 if protoimpl.UnsafeEnabled {
  mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
  ms
 := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *AssignmentProtocol_ManualAssignmentType) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_ManualAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_ManualAssignmentType) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol_ManualAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_ManualAssignmentType) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
 []int{0, 0}
}
```

```
// Configuration for automatic assignments handled by data plane operations.
type AssignmentProtocol_AutoAssignmentType struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Optional. The time to live for an inactive license. After this time has
 // passed, the license will be automatically unassigned from the user. Must
 // be at least 7 days, if set. If unset, the license will never expire.
 InactiveLicenseTtl *durationpb.Duration
`protobuf:"bytes,1,opt,name=inactive_license_ttl,json=inactiveLicenseTtl,proto3"
json:"inactive_license_ttl,omitempty"`
}

func (x *AssignmentProtocol_AutoAssignmentType) Reset() {
 *x = AssignmentProtocol_AutoAssignmentType{}
 if protoimpl.UnsafeEnabled {
  mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func
 (x *AssignmentProtocol_AutoAssignmentType) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_AutoAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_AutoAssignmentType) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol_AutoAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_AutoAssignmentType) Descriptor() ([]byte, []int) {
 return
```

```
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{0, 1}
}

func (x *AssignmentProtocol_AutoAssignmentType) GetInactiveLicenseTtl() *durationpb.Duration {
 if x != nil {
  return x.InactiveLicenseTtl
 }
 return
 nil
}

var File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto
protoreflect.FileDescriptor

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc =
[]byte{
 0x0a, 0x4e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2f, 0x63,
 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x76, 0x31, 0x2f,
 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x6d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65,
 0x6e, 0x74, 0x5f, 0x73, 0x65, 0x72, 0x76, 0x69, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f,
 0x12, 0x2d, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63,
 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76,
 0x31, 0x1a,
 0x1c, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x61, 0x6e, 0x6e, 0x6f,
 0x74, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x73, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x17, 0x67,
 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x63, 0x6c, 0x69, 0x65, 0x6e, 0x74,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61,
 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f,
 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f,
 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f,
 0x74, 0x6f, 0x1a, 0x1e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
 0x62, 0x75, 0x66, 0x2f, 0x64, 0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x2e, 0x70, 0x72, 0x6f,
 0x74, 0x6f, 0x1a, 0x20, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
 0x62, 0x75, 0x66,
 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x6d, 0x61, 0x73, 0x6b, 0x2e, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f,
 0x74, 0x6f, 0x62, 0x75, 0x66, 0x2f, 0x74, 0x69, 0x6d, 0x65, 0x73, 0x74, 0x61, 0x6d, 0x70, 0x2e,
 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0xc3, 0x03, 0x0a, 0x12, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e,
 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x8e, 0x01, 0x0a,
 0x16, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65,
 0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x56, 0x2e,
 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d,
 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70,
 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73,
 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74,
```

0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c,
0x2e, 0x4d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e,
0x74, 0x54, 0x79, 0x70, 0x65, 0x48, 0x00, 0x52, 0x14, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41,
0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x88, 0x01,
0x0a, 0x14, 0x61, 0x75, 0x74, 0x6f, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e,
0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x03, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x54, 0x2e, 0x67,
0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d,
0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72,
0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73, 0x73,
0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x2e,
0x41, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e,
0x74, 0x54, 0x79,
0x70, 0x65, 0x48, 0x00, 0x52, 0x12, 0x61, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e,
0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x1a, 0x16, 0x0a, 0x14, 0x4d, 0x61, 0x6e, 0x75,
0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65,
0x1a, 0x66, 0x0a, 0x12, 0x41, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65,
0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x50, 0x0a, 0x14, 0x69, 0x6e, 0x61, 0x63, 0x74, 0x69,
0x76, 0x65, 0x5f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x74, 0x74, 0x6c, 0x18, 0x01,
0x20, 0x01, 0x28, 0x0b, 0x32, 0x19, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x70, 0x72,
0x6f, 0x74, 0x6f, 0x62, 0x75, 0x66, 0x2e, 0x44, 0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x42,
0x03, 0xe0, 0x41, 0x01, 0x52, 0x12, 0x69, 0x6e, 0x61, 0x63, 0x74, 0x69, 0x76, 0x65, 0x4c, 0x69,
0x63, 0x65, 0x6e, 0x73, 0x65, 0x54, 0x74, 0x6c, 0x42, 0x11, 0x0a, 0x0f, 0x61, 0x73, 0x73, 0x69,
0x67, 0x6e,
0x6d, 0x65, 0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x22, 0xbe, 0x03, 0x0a, 0x0b,
0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x12, 0x17, 0x0a, 0x04, 0x6e,
0x61, 0x6d, 0x65, 0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04,
0x6e, 0x61, 0x6d, 0x65, 0x12, 0x86, 0x01, 0x0a, 0x1b, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65,
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0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63,
0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d,
0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x52, 0x65, 0x73,
0x70, 0x6f, 0x6e, 0x73, 0x65, 0x22, 0x58, 0xda, 0x41, 0x10, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74,
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0x3d, 0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67, 0x41, 0x63, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x73,
0x2f, 0x2a, 0x2f, 0x6f, 0x72, 0x64, 0x65, 0x72, 0x73, 0x2f, 0x2a, 0x2f, 0x6c, 0x69, 0x63, 0x65,
0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x7d, 0x3a, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x12,
0xe7, 0x01,
0x0a, 0x08, 0x55, 0x6e, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x12, 0x3e, 0x2e, 0x67,
0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d,
0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72,
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0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72,
0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x55, 0x6e, 0x61,
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0x41, 0x10, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x2c, 0x75, 0x73, 0x65, 0x72, 0x6e, 0x61, 0x6d,
0x65, 0x73, 0x82, 0xd3, 0xe4, 0x93, 0x02,
0x41, 0x3a, 0x01, 0x2a, 0x22, 0x3c, 0x2f, 0x76, 0x31,
0x2f, 0x7b, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x3d, 0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67,
0x41, 0x63, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x73, 0x2f, 0x2a, 0x2f, 0x6f, 0x72, 0x64, 0x65, 0x72,
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0x75, 0x6d, 0x65, 0x72, 0x61, 0x74, 0x65, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x64, 0x55,
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 0x61, 0x75, 0x74, 0x68, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2d, 0x70, 0x6c, 0x61, 0x74, 0x66,
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 0x2e, 0x76, 0x31, 0x42, 0x1d, 0x4c, 0x69, 0x63, 0x65, 0x6e,
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 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x67, 0x6f, 0x2f,
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 0x62, 0x3b, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x70, 0x62, 0xaa,
 0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x43,
 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
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 0x74, 0x2e, 0x56, 0x31, 0xca,
 0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x5c, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x5c, 0x43,
 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x5c, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
 0x5c, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x5c, 0x56, 0x31, 0xea,
 0x02, 0x32, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x3a, 0x3a, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x3a,
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 0x3a, 0x3a, 0x56, 0x31, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce
sync.Once
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
```

```
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc
)

func
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP()
[]byte {
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce.Do(f
unc() {
  file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_cloud_commerce_consumer_procurement_v1_license_management_servi
ce_proto_rawDescData)
 })
 return file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
}

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes =
make([]protoimpl.MessageInfo, 13)
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes =
[]any{
 (*AssignmentProtocol)(nil),                    // 0:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
 (*LicensePool)(nil),                           // 1: google.cloud.commerce.consumer.procurement.v1.LicensePool
 (*GetLicensePoolRequest)(nil),
                    // 2: google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
 (*UpdateLicensePoolRequest)(nil),              // 3:
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
 (*AssignRequest)(nil),                         // 4: google.cloud.commerce.consumer.procurement.v1.AssignRequest
 (*AssignResponse)(nil),                        // 5: google.cloud.commerce.consumer.procurement.v1.AssignResponse
 (*UnassignRequest)(nil),                       // 6: google.cloud.commerce.consumer.procurement.v1.UnassignRequest
 (*UnassignResponse)(nil),                      // 7: google.cloud.commerce.consumer.procurement.v1.UnassignResponse
 (*EnumerateLicensedUsersRequest)(nil),         // 8:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
 (*LicensedUser)(nil),                          // 9: google.cloud.commerce.consumer.procurement.v1.LicensedUser
 (*EnumerateLicensedUsersResponse)(nil),
         // 10: google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
 (*AssignmentProtocol_ManualAssignmentType)(nil), // 11:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
 (*AssignmentProtocol_AutoAssignmentType)(nil),   // 12:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
 (*fieldmaskpb.FieldMask)(nil),                 // 13: google.protobuf.FieldMask
 (*timestamppb.Timestamp)(nil),                 // 14: google.protobuf.Timestamp
 (*durationpb.Duration)(nil),                   // 15: google.protobuf.Duration
}
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs =
[]int32{
 11, // 0:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.manual_assignment_type:type_name ->
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
```

```
 12, // 1: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.auto_assignment_type:type_name
 -> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
 0,  // 2: google.cloud.commerce.consumer.procurement.v1.LicensePool.license_assignment_protocol:type_name ->
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
 1,  // 3: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.license_pool:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 13, // 4: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.update_mask:type_name ->
google.protobuf.FieldMask
 14, // 5: google.cloud.commerce.consumer.procurement.v1.LicensedUser.assign_time:type_name ->
google.protobuf.Timestamp
 14, // 6: google.cloud.commerce.consumer.procurement.v1.LicensedUser.recent_usage_time:type_name ->
google.protobuf.Timestamp
 9,  // 7:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse.licensed_users:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensedUser
 15,
 // 8:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType.inactive_license_ttl:t
ype_name -> google.protobuf.Duration
 2,  // 9: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:input_type -
> google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
 3,  // 10:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:input_type ->
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
 4,  // 11: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:input_type ->
google.cloud.commerce.consumer.procurement.v1.AssignRequest
 6,  // 12: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:input_type ->
google.cloud.commerce.consumer.procurement.v1.UnassignRequest
 8,  // 13:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:input_typ
e
 -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
 1,  // 14:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 1,  // 15:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 5,  // 16: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:output_type ->
google.cloud.commerce.consumer.procurement.v1.AssignResponse
 7,  // 17: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:output_type ->
google.cloud.commerce.consumer.procurement.v1.UnassignResponse
 10, // 18:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:output_ty
pe -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
 14, // [14:19] is
 the sub-list for method output_type
 9,  // [9:14] is the sub-list for method input_type
```

```
 9,  // [9:9] is the sub-list for extension type_name
 9,  // [9:9] is the sub-list for extension extendee
 0,  // [0:9] is the sub-list for field type_name
}

func init() {
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init()
}
func file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init() {
 if File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].Expor
ter = func(v any, i int) any {
   switch v := v.(*AssignmentProtocol); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1].Expor
ter
 = func(v any, i int) any {
   switch v := v.(*LicensePool); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2].Expor
ter = func(v any, i int) any {
   switch v := v.(*GetLicensePoolRequest); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
```

```
    return &v.unknownFields
   default:
    return nil
   }
  }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3].Expor
ter = func(v any, i int) any {
   switch v := v.(*UpdateLicensePoolRequest); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4].Expor
ter = func(v any, i int)
 any {
   switch v := v.(*AssignRequest); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5].Expor
ter = func(v any, i int) any {
   switch v := v.(*AssignResponse); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6].Expor
ter = func(v any, i int) any {
   switch v := v.(*UnassignRequest); i {
```

```
  case 0:
   return &v.state
  case 1:
   return &v.sizeCache
  case 2:
   return &v.unknownFields
  default:
   return nil
  }
 }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7].Exporter = func(v any, i int) any {
  switch v := v.(*UnassignResponse); i {
  case
 0:
   return &v.state
  case 1:
   return &v.sizeCache
  case 2:
   return &v.unknownFields
  default:
   return nil
  }
 }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8].Exporter = func(v any, i int) any {
  switch v := v.(*EnumerateLicensedUsersRequest); i {
  case 0:
   return &v.state
  case 1:
   return &v.sizeCache
  case 2:
   return &v.unknownFields
  default:
   return nil
  }
 }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9].Exporter = func(v any, i int) any {
  switch v := v.(*LicensedUser); i {
  case 0:
   return &v.state
  case 1:
   return &v.sizeCache
  case 2:
   return &v.unknownFields
  default:
   return nil
```

```
  }
 }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10].Exp
orter = func(v any, i int) any {
  switch v := v.(*EnumerateLicensedUsersResponse); i {
  case 0:
   return &v.state
  case
 1:
   return &v.sizeCache
  case 2:
   return &v.unknownFields
  default:
   return nil
  }
 }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11].Exp
orter = func(v any, i int) any {
  switch v := v.(*AssignmentProtocol_ManualAssignmentType); i {
  case 0:
   return &v.state
  case 1:
   return &v.sizeCache
  case 2:
   return &v.unknownFields
  default:
   return nil
  }
 }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12].Exp
orter = func(v any, i int) any {
  switch v := v.(*AssignmentProtocol_AutoAssignmentType); i {
  case 0:
   return &v.state
  case 1:
   return &v.sizeCache
  case 2:
   return &v.unknownFields
  default:
   return nil
  }
 }
}
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].Oneof
Wrappers = []any{
 (*AssignmentProtocol_ManualAssignmentType_)(nil),
 (*AssignmentProtocol_AutoAssignmentType_)(nil),
}
```

```
 type
 x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc,
   NumEnums:      0,
   NumMessages:   13,
   NumExtensions: 0,
   NumServices:   1,
  },
  GoTypes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes,
  DependencyIndexes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs,
  MessageInfos:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes,
 }.Build()
 File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto = out.File
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc = nil
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes = nil
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs
 = nil
}

// Reference imports to suppress errors if they are not otherwise used.
var _ context.Context
var _ grpc.ClientConnInterface

// This is a compile-time assertion to ensure that this generated file
// is compatible with the grpc package it is being compiled against.
const _ = grpc.SupportPackageIsVersion6

// LicenseManagementServiceClient is the client API for LicenseManagementService service.
//
// For semantics around ctx use and closing/ending streaming RPCs, please refer to
https://godoc.org/google.golang.org/grpc#ClientConn.NewStream.
type LicenseManagementServiceClient interface {
 // Gets the license pool.
 GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
 // Updates the license pool if one exists for this Order.
 UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool,
 error)
 // Assigns a license to a user.
 Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error)
 // Unassigns a license from a user.
 Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error)
```

```
 // Enumerates all users assigned a license.
 EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption)
(*EnumerateLicensedUsersResponse, error)
}

type licenseManagementServiceClient struct {
 cc grpc.ClientConnInterface
}

func NewLicenseManagementServiceClient(cc grpc.ClientConnInterface) LicenseManagementServiceClient {
 return &licenseManagementServiceClient{cc}
}

func (c *licenseManagementServiceClient) GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts
...grpc.CallOption) (*LicensePool, error) {
 out := new(LicensePool)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool", in, out,
 opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

func (c *licenseManagementServiceClient) UpdateLicensePool(ctx context.Context, in
*UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
 out := new(LicensePool)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool", in, out,
opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

func (c *licenseManagementServiceClient) Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption)
(*AssignResponse, error) {
 out := new(AssignResponse)
 err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign", in,
out, opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}
```

```
func (c *licenseManagementServiceClient) Unassign(ctx context.Context, in *UnassignRequest, opts
...grpc.CallOption) (*UnassignResponse, error) {
 out := new(UnassignResponse)
 err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
 in, out, opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

func (c *licenseManagementServiceClient) EnumerateLicensedUsers(ctx context.Context, in
*EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error) {
 out := new(EnumerateLicensedUsersResponse)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers", in, out,
opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

// LicenseManagementServiceServer is the server API for LicenseManagementService service.
type LicenseManagementServiceServer interface {
 // Gets the license pool.
 GetLicensePool(context.Context, *GetLicensePoolRequest) (*LicensePool, error)
 // Updates the license pool if one exists for this Order.
 UpdateLicensePool(context.Context, *UpdateLicensePoolRequest) (*LicensePool, error)
 // Assigns a license to
 a user.
 Assign(context.Context, *AssignRequest) (*AssignResponse, error)
 // Unassigns a license from a user.
 Unassign(context.Context, *UnassignRequest) (*UnassignResponse, error)
 // Enumerates all users assigned a license.
 EnumerateLicensedUsers(context.Context, *EnumerateLicensedUsersRequest)
(*EnumerateLicensedUsersResponse, error)
}

// UnimplementedLicenseManagementServiceServer can be embedded to have forward compatible
implementations.
type UnimplementedLicenseManagementServiceServer struct {
}

func (*UnimplementedLicenseManagementServiceServer) GetLicensePool(context.Context,
*GetLicensePoolRequest) (*LicensePool, error) {
 return nil, status.Errorf(codes.Unimplemented, "method GetLicensePool not implemented")
}
```

```
func (*UnimplementedLicenseManagementServiceServer) UpdateLicensePool(context.Context,
*UpdateLicensePoolRequest) (*LicensePool, error) {
 return nil, status.Errorf(codes.Unimplemented, "method UpdateLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer)
 Assign(context.Context, *AssignRequest) (*AssignResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method Assign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Unassign(context.Context, *UnassignRequest)
(*UnassignResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method Unassign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) EnumerateLicensedUsers(context.Context,
*EnumerateLicensedUsersRequest) (*EnumerateLicensedUsersResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method EnumerateLicensedUsers not implemented")
}

func RegisterLicenseManagementServiceServer(s *grpc.Server, srv LicenseManagementServiceServer) {
 s.RegisterService(&_LicenseManagementService_serviceDesc, srv)
}

func _LicenseManagementService_GetLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in
 := new(GetLicensePoolRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, req.(*GetLicensePoolRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_UpdateLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(UpdateLicensePoolRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
```

```
 return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod:
 "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, req.(*UpdateLicensePoolRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Assign_Handler(srv interface{}, ctx context.Context, dec func(interface{})
error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(AssignRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).Assign(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).Assign(ctx, req.(*AssignRequest))
 }
 return
 interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Unassign_Handler(srv interface{}, ctx context.Context, dec func(interface{})
error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(UnassignRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).Unassign(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).Unassign(ctx, req.(*UnassignRequest))
```

```
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_EnumerateLicensedUsers_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(EnumerateLicensedUsersRequest)
 if err
 := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod:
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx,
req.(*EnumerateLicensedUsersRequest))
 }
 return interceptor(ctx, in, info, handler)
}

var _LicenseManagementService_serviceDesc = grpc.ServiceDesc{
 ServiceName: "google.cloud.commerce.consumer.procurement.v1.LicenseManagementService",
 HandlerType: (*LicenseManagementServiceServer)(nil),
 Methods: []grpc.MethodDesc{
  {
   MethodName: "GetLicensePool",
   Handler:    _LicenseManagementService_GetLicensePool_Handler,
  },
  {
   MethodName: "UpdateLicensePool",
   Handler:    _LicenseManagementService_UpdateLicensePool_Handler,
  },
  {
   MethodName:
 "Assign",
   Handler:    _LicenseManagementService_Assign_Handler,
  },
  {
   MethodName: "Unassign",
   Handler:    _LicenseManagementService_Unassign_Handler,
  },
  {
```

```
  MethodName: "EnumerateLicensedUsers",
  Handler:    _LicenseManagementService_EnumerateLicensedUsers_Handler,
 },
},
Streams:  []grpc.StreamDesc{},
Metadata: "google/cloud/commerce/consumer/procurement/v1/license_management_service.proto",
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)
```

```
var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
```

```
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 SetIamPolicy: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 TestIamPermissions: []gax.CallOption{
  gax.WithTimeout(600000
* time.Millisecond),
 },
}
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
```

```
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}
```

```
// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string
```

```
 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}
```

```
//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient
 = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()
```

```
// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params",
fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
url.QueryEscape(req.GetLicense()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf,
err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
```

```
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()),
 "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()
```

```
  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err
 := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and
 context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
```

```
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp);
 err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
```

```
m := protojson.MarshalOptions{AllowPartial: true}
body := req.GetLicenseResource()
jsonReq, err := m.Marshal(body)
if err != nil {
 return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.RequestId != nil {
 params.Add("requestId",
fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err !=
nil {
  return err
 }
 defer httpRsp.Body.Close()
```

```
 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient)
 List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(uint32(math.MaxInt32))
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
```

```
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, "", err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.Filter != nil {
  params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
 }
 if req != nil && req.MaxResults !=
nil {
  params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
 }
 if req != nil && req.OrderBy != nil {
  params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req != nil && req.PageToken != nil {
  params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return
err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
```

```
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for
 use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }
```

```
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }
```

```
  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller
 has on the specified resource. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type",
 "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
```

```
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return
nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
```

```
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
```

```
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package procurement_test

import (
 "context"

 procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
 procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
 longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicenseManagementClient() {
 ctx
 := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
```

```
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleNewLicenseManagementRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c,
 err := procurement.NewLicenseManagementRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseManagementClient_Assign() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.AssignRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#AssignRequest.
```

```
 }
 resp, err := c.Assign(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 //
 TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_EnumerateLicensedUsers() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.EnumerateLicensedUsersRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
dUsersRequest.
 }
 it := c.EnumerateLicensedUsers(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  //
 TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*procurementpb.EnumerateLicensedUsersResponse)
 }
```

```
}

func ExampleLicenseManagementClient_GetLicensePool() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.GetLicensePoolRequest{
  // TODO: Fill request struct fields.
  //
 See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#GetLicensePoolRe
quest.
 }
 resp, err := c.GetLicensePool(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_Unassign() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.UnassignRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UnassignRequest.
 }
```

```
 resp,
 err := c.Unassign(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_UpdateLicensePool() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.UpdateLicensePoolRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UpdateLicensePoo
lRequest.
 }
 resp, err := c.UpdateLicensePool(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 //
 TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_GetOperation() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
```

```
defer c.Close()

req := &longrunningpb.GetOperationRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/longrunning/autogen/longrunningpb#GetOperationRequest.
}
resp, err := c.GetOperation(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.34.2
```

```
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
```

```
  "USER":                    1,
  "GROUP":                   2,
  "EVERYONE":                3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)
```

```
// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":           1,
  "WRITER":          2,
  "READER":          3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
```

```
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}
```

```
func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
```

```
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
 0x0b, 0x67,
 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
 0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
 0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
```

```
 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
 0x64,
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 0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
```

```
 = []any{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func
 file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
```

```
 GoTypes:          file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
 DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
 EnumInfos:
        file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
 MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleLicensesClient_List_all() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications
 to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
```

```
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 for resp, err := range c.List(ctx, req).All() {
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
 }
}
```

1.4496 github.com/grpc-ecosystem/grpc-gateway/v2 2.24.0

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1.4497 go.opentelemetry.io/otel/sdk 1.33.0

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1.4498 go.opentelemetry.io/otel/sdk/metric 1.33.0

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
```

```
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.DeleteLicenseRequest{
 //
TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
}
op, err := c.Delete(ctx, req)
if err != nil {
 // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
 // TODO: Handle error.
}
}

func ExampleLicensesClient_Get() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
}
resp,
err := c.Get(ctx, req)
if err != nil {
 // TODO: Handle error.
}
```

```
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
```

```
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*computepb.LicensesListResponse)
 }
}
```

```
func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
```

```
 // TODO: Use resp.
 _ = resp
}
```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleLicensesClient_List_all() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications
 to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 for resp, err := range c.List(ctx, req).All() {
  if err != nil {
   // TODO: Handle error and break/return/continue. Iteration will stop after any error.
```

```
  }
  // TODO: Use resp.
  _ = resp
 }
}
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//go:build go1.23

package procurement_test

import (
 "context"

 procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
 procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
)

func ExampleLicenseManagementClient_EnumerateLicensedUsers_all() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.EnumerateLicensedUsersRequest{
  // TODO: Fill request struct fields.
```

```
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
dUsersRequest.
 }
 for resp, err := range c.EnumerateLicensedUsers(ctx, req).All() {
  if err != nil {
   // TODO: Handle error and break/return/continue. Iteration will stop after any error.
  }
  // TODO: Use resp.
  _ = resp
 }
}

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// limitations under the License.

// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc        v4.25.3
// source: google/cloud/commerce/consumer/procurement/v1/license_management_service.proto

package procurementpb
```

```
import (
 context "context"
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 grpc "google.golang.org/grpc"
 codes "google.golang.org/grpc/codes"
 status
 "google.golang.org/grpc/status"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
 durationpb "google.golang.org/protobuf/types/known/durationpb"
 fieldmaskpb "google.golang.org/protobuf/types/known/fieldmaskpb"
 timestamppb "google.golang.org/protobuf/types/known/timestamppb"
)

const (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Assignment protocol for a license pool.
type AssignmentProtocol struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // The type of assignment protocol.
 //
 // Types that are assignable to AssignmentType:
 //
 // *AssignmentProtocol_ManualAssignmentType_
 // *AssignmentProtocol_AutoAssignmentType_
 AssignmentType
 isAssignmentProtocol_AssignmentType `protobuf_oneof:"assignment_type"`
}

func (x *AssignmentProtocol) Reset() {
 *x = AssignmentProtocol{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}
```

```
func (x *AssignmentProtocol) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol) ProtoMessage() {}

func (x *AssignmentProtocol) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
 []int{0}
}

func (m *AssignmentProtocol) GetAssignmentType() isAssignmentProtocol_AssignmentType {
 if m != nil {
  return m.AssignmentType
 }
 return nil
}

func (x *AssignmentProtocol) GetManualAssignmentType() *AssignmentProtocol_ManualAssignmentType {
 if x, ok := x.GetAssignmentType().(*AssignmentProtocol_ManualAssignmentType_); ok {
  return x.ManualAssignmentType
 }
 return nil
}

func (x *AssignmentProtocol) GetAutoAssignmentType() *AssignmentProtocol_AutoAssignmentType {
 if x, ok := x.GetAssignmentType().(*AssignmentProtocol_AutoAssignmentType_); ok {
  return x.AutoAssignmentType
 }
 return nil
}

type isAssignmentProtocol_AssignmentType interface {
```

```
 isAssignmentProtocol_AssignmentType()
}

type AssignmentProtocol_ManualAssignmentType_ struct {
 // Allow manual assignments triggered by administrative operations only.
 ManualAssignmentType *AssignmentProtocol_ManualAssignmentType
`protobuf:"bytes,2,opt,name=manual_assignment_type,json=manualAssignmentType,proto3,oneof"`
}

type
 AssignmentProtocol_AutoAssignmentType_ struct {
 // Allow automatic assignments triggered by data plane operations.
 AutoAssignmentType *AssignmentProtocol_AutoAssignmentType
`protobuf:"bytes,3,opt,name=auto_assignment_type,json=autoAssignmentType,proto3,oneof"`
}

func (*AssignmentProtocol_ManualAssignmentType_) isAssignmentProtocol_AssignmentType() {}

func (*AssignmentProtocol_AutoAssignmentType_) isAssignmentProtocol_AssignmentType() {}

// A license pool represents a pool of licenses that can be assigned to users.
type LicensePool struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Identifier. Format:
 // `billingAccounts/{billing_account}/orders/{order}/licensePool`
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Required. Assignment protocol for the license pool.
 LicenseAssignmentProtocol *AssignmentProtocol
`protobuf:"bytes,2,opt,name=license_assignment_protocol,json=licenseAssignmentProtocol,proto3"
 json:"license_assignment_protocol,omitempty"`
 // Output only. Licenses count that are available to be assigned.
 AvailableLicenseCount int32
`protobuf:"varint,3,opt,name=available_license_count,json=availableLicenseCount,proto3"
json:"available_license_count,omitempty"`
 // Output only. Total number of licenses in the pool.
 TotalLicenseCount int32 `protobuf:"varint,4,opt,name=total_license_count,json=totalLicenseCount,proto3"
json:"total_license_count,omitempty"`
}

func (x *LicensePool) Reset() {
 *x = LicensePool{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
```

```
}

func (x *LicensePool) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*LicensePool) ProtoMessage() {}

func (x *LicensePool) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
 if
 x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use LicensePool.ProtoReflect.Descriptor instead.
func (*LicensePool) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{1}
}

func (x *LicensePool) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *LicensePool) GetLicenseAssignmentProtocol() *AssignmentProtocol {
 if x != nil {
  return x.LicenseAssignmentProtocol
 }
 return nil
}

func (x *LicensePool) GetAvailableLicenseCount() int32 {
 if x != nil {
  return x.AvailableLicenseCount
 }
 return 0
```

```
}

func (x *LicensePool) GetTotalLicenseCount() int32 {
 if x != nil {
  return x.TotalLicenseCount
 }
 return 0
}

// Request message for getting a
 license pool.
type GetLicensePoolRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. The name of the license pool to get.
 // Format: `billingAccounts/{billing_account}/orders/{order}/licensePool`
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
}

func (x *GetLicensePoolRequest) Reset() {
 *x = GetLicensePoolRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *GetLicensePoolRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*GetLicensePoolRequest) ProtoMessage() {}

func (x *GetLicensePoolRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if
 ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}
```

```
// Deprecated: Use GetLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*GetLicensePoolRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{2}
}

func (x *GetLicensePoolRequest) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

// Request message for updating a license pool.
type UpdateLicensePoolRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. The license pool to update.
 //
 // The license pool's name field is used to identify the license pool to
 // update. Format:
 // `billingAccounts/{billing_account}/orders/{order}/licensePool`.
 LicensePool *LicensePool `protobuf:"bytes,1,opt,name=license_pool,json=licensePool,proto3"
json:"license_pool,omitempty"`
 //
 Required. The list of fields to update.
 UpdateMask *fieldmaskpb.FieldMask `protobuf:"bytes,2,opt,name=update_mask,json=updateMask,proto3"
json:"update_mask,omitempty"`
}

func (x *UpdateLicensePoolRequest) Reset() {
 *x = UpdateLicensePoolRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *UpdateLicensePoolRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*UpdateLicensePoolRequest) ProtoMessage() {}
```

```
func (x *UpdateLicensePoolRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use UpdateLicensePoolRequest.ProtoReflect.Descriptor
 instead.
func (*UpdateLicensePoolRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{3}
}

func (x *UpdateLicensePoolRequest) GetLicensePool() *LicensePool {
 if x != nil {
  return x.LicensePool
 }
 return nil
}

func (x *UpdateLicensePoolRequest) GetUpdateMask() *fieldmaskpb.FieldMask {
 if x != nil {
  return x.UpdateMask
 }
 return nil
}

// Request message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementServic
e.Assign].
type AssignRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. License pool name.
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Required. Username.
 // Format: `name@domain.com`.
```

```
 Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func
 (x *AssignRequest) Reset() {
 *x = AssignRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignRequest) ProtoMessage() {}

func (x *AssignRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignRequest.ProtoReflect.Descriptor instead.
func (*AssignRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{4}
}

func (x *AssignRequest) GetParent()
 string {
 if x != nil {
  return x.Parent
 }
 return ""
}

func (x *AssignRequest) GetUsernames() []string {
 if x != nil {
```

```
  return x.Usernames
 }
 return nil
}

// Response message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementServic
e.Assign].
type AssignResponse struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
}

func (x *AssignResponse) Reset() {
 *x = AssignResponse{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignResponse) ProtoMessage() {}

func (x *AssignResponse) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
 if x
 != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignResponse.ProtoReflect.Descriptor instead.
func (*AssignResponse) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{5}
```

```
}

// Request message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. License pool name.
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Required. Username.
 // Format: `name@domain.com`.
 Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func (x *UnassignRequest) Reset()
 {
 *x = UnassignRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *UnassignRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*UnassignRequest) ProtoMessage() {}

func (x *UnassignRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use UnassignRequest.ProtoReflect.Descriptor instead.
func (*UnassignRequest) Descriptor() ([]byte, []int) {
```

```
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{6}
}

func (x *UnassignRequest) GetParent() string {
 if x != nil {
  return
 x.Parent
 }
 return ""
}

func (x *UnassignRequest) GetUsernames() []string {
 if x != nil {
  return x.Usernames
 }
 return nil
}

// Response message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignResponse struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
}

func (x *UnassignResponse) Reset() {
 *x = UnassignResponse{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *UnassignResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*UnassignResponse) ProtoMessage() {}

func (x *UnassignResponse) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
 if x != nil {
```

```
  ms
 := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use UnassignResponse.ProtoReflect.Descriptor instead.
func (*UnassignResponse) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{7}
}

// Request message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. License pool name.
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Optional. The maximum number of users to return. The service may return
 // fewer than this value.
 PageSize int32 `protobuf:"varint,2,opt,name=page_size,json=pageSize,proto3"
 json:"page_size,omitempty"`
 // Optional. A page token, received from a previous `EnumerateLicensedUsers`
 // call. Provide this to retrieve the subsequent page.
 PageToken string `protobuf:"bytes,3,opt,name=page_token,json=pageToken,proto3" json:"page_token,omitempty"`
}

func (x *EnumerateLicensedUsersRequest) Reset() {
 *x = EnumerateLicensedUsersRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}
```

```
func (*EnumerateLicensedUsersRequest) ProtoMessage() {}

func (x *EnumerateLicensedUsersRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo()
 == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersRequest.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{8}
}

func (x *EnumerateLicensedUsersRequest) GetParent() string {
 if x != nil {
  return x.Parent
 }
 return ""
}

func (x *EnumerateLicensedUsersRequest) GetPageSize() int32 {
 if x != nil {
  return x.PageSize
 }
 return 0
}

func (x *EnumerateLicensedUsersRequest) GetPageToken() string {
 if x != nil {
  return x.PageToken
 }
 return ""
}

// A licensed user.
type LicensedUser struct {
 state         protoimpl.MessageState
```

```
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Username.
 // Format: `name@domain.com`.
 Username string `protobuf:"bytes,1,opt,name=username,proto3" json:"username,omitempty"`
 //
 Output only. Timestamp when the license was assigned.
 AssignTime *timestamppb.Timestamp `protobuf:"bytes,2,opt,name=assign_time,json=assignTime,proto3"
json:"assign_time,omitempty"`
 // Output only. Timestamp when the license was recently used. This may not be
 // the most recent usage time, and will be updated regularly (within 24
 // hours).
 RecentUsageTime *timestamppb.Timestamp
`protobuf:"bytes,3,opt,name=recent_usage_time,json=recentUsageTime,proto3"
json:"recent_usage_time,omitempty"`
}

func (x *LicensedUser) Reset() {
 *x = LicensedUser{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *LicensedUser) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*LicensedUser) ProtoMessage() {}

func (x *LicensedUser) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
 if
 x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use LicensedUser.ProtoReflect.Descriptor instead.
func (*LicensedUser) Descriptor() ([]byte, []int) {
```

```
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{9}
}

func (x *LicensedUser) GetUsername() string {
 if x != nil {
  return x.Username
 }
 return ""
}

func (x *LicensedUser) GetAssignTime() *timestamppb.Timestamp {
 if x != nil {
  return x.AssignTime
 }
 return nil
}

func (x *LicensedUser) GetRecentUsageTime() *timestamppb.Timestamp {
 if x != nil {
  return x.RecentUsageTime
 }
 return nil
}

// Response message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersResponse
 struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // The list of licensed users.
 LicensedUsers []*LicensedUser `protobuf:"bytes,1,rep,name=licensed_users,json=licensedUsers,proto3"
json:"licensed_users,omitempty"`
 // A token that can be sent as `page_token` to retrieve the next page.
 // If this field is omitted, there are no subsequent pages.
 NextPageToken string `protobuf:"bytes,2,opt,name=next_page_token,json=nextPageToken,proto3"
json:"next_page_token,omitempty"`
}

func (x *EnumerateLicensedUsersResponse) Reset() {
 *x = EnumerateLicensedUsersResponse{}
 mi :=
```

```
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersResponse) ProtoMessage() {}

func
 (x *EnumerateLicensedUsersResponse) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersResponse.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersResponse) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{10}
}

func (x *EnumerateLicensedUsersResponse) GetLicensedUsers() []*LicensedUser {
 if x != nil {
  return x.LicensedUsers
 }
 return nil
}

func (x *EnumerateLicensedUsersResponse) GetNextPageToken() string {
 if x != nil {
  return x.NextPageToken
 }
 return ""
}

// Allow manual assignments triggered by administrative operations only.
type AssignmentProtocol_ManualAssignmentType
```

```
 struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
}

func (x *AssignmentProtocol_ManualAssignmentType) Reset() {
 *x = AssignmentProtocol_ManualAssignmentType{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_ManualAssignmentType) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_ManualAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_ManualAssignmentType) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated:
 Use AssignmentProtocol_ManualAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_ManualAssignmentType) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{0, 0}
}

// Configuration for automatic assignments handled by data plane operations.
type AssignmentProtocol_AutoAssignmentType struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Optional. The time to live for an inactive license. After this time has
```

```
 // passed, the license will be automatically unassigned from the user. Must
 // be at least 7 days, if set. If unset, the license will never expire.
 InactiveLicenseTtl *durationpb.Duration
`protobuf:"bytes,1,opt,name=inactive_license_ttl,json=inactiveLicenseTtl,proto3"
json:"inactive_license_ttl,omitempty"`
}

func (x *AssignmentProtocol_AutoAssignmentType) Reset() {
 *x = AssignmentProtocol_AutoAssignmentType{}
 mi
 := &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_AutoAssignmentType) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_AutoAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_AutoAssignmentType) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol_AutoAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_AutoAssignmentType) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
 []int{0, 1}
}

func (x *AssignmentProtocol_AutoAssignmentType) GetInactiveLicenseTtl() *durationpb.Duration {
 if x != nil {
  return x.InactiveLicenseTtl
 }
 return nil
}
```

```
var File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto
protoreflect.FileDescriptor

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc =
[]byte{
 0x0a, 0x4e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2f, 0x63,
 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x76, 0x31, 0x2f,
 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x6d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65,
 0x6e, 0x74, 0x5f, 0x73, 0x65, 0x72, 0x76, 0x69, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f,
 0x12, 0x2d, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63,
 0x6f,
 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x1a,
 0x1c, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x61, 0x6e, 0x6e, 0x6f,
 0x74, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x73, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x17, 0x67,
 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x63, 0x6c, 0x69, 0x65, 0x6e, 0x74,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61,
 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f,
 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f,
 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f,
 0x74, 0x6f, 0x1a, 0x1e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
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 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f,
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 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0xc3, 0x03, 0x0a, 0x12, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e,
 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x8e, 0x01, 0x0a,
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 0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x56, 0x2e,
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 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73,
 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70,
 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73,
 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c,
 0x2e, 0x4d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e,
 0x74, 0x54, 0x79, 0x70, 0x65, 0x48, 0x00, 0x52, 0x14, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41,
 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x88, 0x01,
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 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x03, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x54, 0x2e, 0x67,
 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d,
 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72,
 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73,
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```

0x70, 0x65, 0x48, 0x00, 0x52, 0x12, 0x61, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x1a, 0x16, 0x0a, 0x14, 0x4d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x1a, 0x66, 0x0a, 0x12, 0x41, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x50, 0x0a, 0x14, 0x69, 0x6e, 0x61, 0x63, 0x74, 0x69, 0x76, 0x65, 0x5f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x74, 0x74, 0x6c, 0x18, 0x01, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x19, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x62, 0x75, 0x66, 0x2e, 0x44, 0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x42, 0x03, 0xe0, 0x41, 0x01,
0x52, 0x12, 0x69, 0x6e, 0x61, 0x63, 0x74, 0x69, 0x76, 0x65, 0x4c, 0x69,
0x63, 0x65, 0x6e, 0x73, 0x65, 0x54, 0x74, 0x6c, 0x42, 0x11, 0x0a, 0x0f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x22, 0xbe, 0x03, 0x0a, 0x0b, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x12, 0x17, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x12, 0x86, 0x01, 0x0a, 0x1b, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x5f, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x41, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76,
0x31, 0x2e, 0x41, 0x73, 0x73, 0x69, 0x67,
0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x52, 0x19, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x3b, 0x0a, 0x17, 0x61, 0x76, 0x61, 0x69, 0x6c, 0x61, 0x62, 0x6c, 0x65, 0x5f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x18, 0x03, 0x20, 0x01, 0x28, 0x05, 0x42, 0x03, 0xe0, 0x41, 0x03, 0x52, 0x15, 0x61, 0x76, 0x61, 0x69, 0x6c, 0x61, 0x62, 0x6c, 0x65, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x43, 0x6f, 0x75, 0x6e, 0x74, 0x12, 0x33, 0x0a, 0x13, 0x74, 0x6f, 0x74, 0x61, 0x6c, 0x5f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x18, 0x04, 0x20, 0x01, 0x28, 0x05, 0x42, 0x03, 0xe0, 0x41, 0x03, 0x52, 0x11, 0x74, 0x6f, 0x74, 0x61, 0x6c, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x43, 0x6f, 0x75, 0x6e, 0x74, 0x3a,
0x9a, 0x01, 0xea, 0x41, 0x96, 0x01, 0x0a, 0x3b, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x12, 0x3c, 0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67, 0x41, 0x63, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x73, 0x2f, 0x7b, 0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67, 0x5f, 0x61, 0x63, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x7d, 0x2f, 0x6f, 0x72, 0x64, 0x65, 0x72, 0x73, 0x2f, 0x7b, 0x6f, 0x72, 0x64, 0x65, 0x72, 0x7d, 0x2f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x2a, 0x0c, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x73, 0x32, 0x0b, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x22, 0x30, 0x0a, 0x15, 0x47, 0x65, 0x74,
0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x52, 0x65,
0x71, 0x75, 0x65, 0x73, 0x74, 0x12, 0x17, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x52, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x22, 0xc0, 0x01, 0x0a, 0x18, 0x55, 0x70, 0x64, 0x61, 0x74, 0x65, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x52, 0x65, 0x71, 0x75, 0x65, 0x73, 0x74, 0x12, 0x62, 0x0a, 0x0c, 0x6c,

0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x70, 0x6f, 0x6f, 0x6c, 0x18, 0x01, 0x20, 0x01, 0x28,
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0x41, 0x02, 0x52, 0x0b, 0x6c, 0x69, 0x63, 0x65,
0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x12,
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0x6f, 0x74, 0x6f, 0x62, 0x75, 0x66, 0x2e, 0x46, 0x69, 0x65, 0x6c, 0x64, 0x4d, 0x61, 0x73, 0x6b,
0x42, 0x03, 0xe0, 0x41, 0x02, 0x52, 0x0a, 0x75, 0x70, 0x64, 0x61, 0x74, 0x65, 0x4d, 0x61, 0x73,
0x6b, 0x22, 0x4f, 0x0a, 0x0d, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x52, 0x65, 0x71, 0x75, 0x65,
0x73, 0x74, 0x12, 0x1b, 0x0a, 0x06, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x18, 0x01, 0x20, 0x01,
0x28, 0x09, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x52, 0x06, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x12,
0x21, 0x0a, 0x09, 0x75, 0x73, 0x65, 0x72, 0x6e, 0x61, 0x6d, 0x65, 0x73, 0x18, 0x02, 0x20, 0x03,
0x28, 0x09, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x52, 0x09, 0x75, 0x73, 0x65, 0x72, 0x6e, 0x61, 0x6d,
0x65, 0x73, 0x22, 0x10, 0x0a, 0x0e, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x52,
0x65, 0x73, 0x70,
0x6f, 0x6e, 0x73, 0x65, 0x22, 0x51, 0x0a, 0x0f, 0x55, 0x6e, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e,
0x52, 0x65, 0x71, 0x75, 0x65, 0x73, 0x74, 0x12, 0x1b, 0x0a, 0x06, 0x70, 0x61, 0x72, 0x65, 0x6e,
0x74, 0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x52, 0x06, 0x70, 0x61,
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 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d,
 0x65, 0x6e, 0x74, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63,
 0x6f, 0x6d, 0xd2, 0x41, 0x2e, 0x68, 0x74, 0x74, 0x70, 0x73, 0x3a, 0x2f, 0x2f, 0x77, 0x77, 0x77,
 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d, 0x2f,
 0x61, 0x75, 0x74, 0x68, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2d, 0x70, 0x6c, 0x61, 0x74, 0x66,
 0x6f, 0x72, 0x6d, 0x42, 0xbe, 0x02, 0x0a, 0x31, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67,
 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64,
 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63,
 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75,
 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x42, 0x1d, 0x4c, 0x69, 0x63, 0x65, 0x6e,
 0x73, 0x65, 0x4d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x53, 0x65, 0x72, 0x76,
 0x69, 0x63, 0x65, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x53, 0x63, 0x6c, 0x6f, 0x75,
 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x67, 0x6f, 0x2f,
 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65,
 0x72, 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x61, 0x70,
 0x69, 0x76, 0x31, 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x70,
 0x62, 0x3b, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x70, 0x62, 0xaa,
 0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x43, 0x6c, 0x6f, 0x75,
 0x64, 0x2e, 0x43,
 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
 0x2e, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x56, 0x31, 0xca,
 0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x5c, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x5c, 0x43,
 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x5c, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
 0x5c, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x5c, 0x56, 0x31, 0xea,
 0x02, 0x32, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x3a, 0x3a, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x3a,
 0x3a, 0x43, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x3a, 0x3a, 0x43, 0x6f, 0x6e, 0x73, 0x75,
 0x6d, 0x65, 0x72, 0x3a, 0x3a, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74,
 0x3a, 0x3a, 0x56, 0x31, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce
sync.Once
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
 = file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc
)

func
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP()
[]byte {
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce.Do(f
unc() {
  file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_cloud_commerce_consumer_procurement_v1_license_management_servi
ce_proto_rawDescData)
 })
```

```
 return file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
}

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes =
make([]protoimpl.MessageInfo, 13)
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes =
[]any{
 (*AssignmentProtocol)(nil),
                    // 0: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
 (*LicensePool)(nil),                        // 1: google.cloud.commerce.consumer.procurement.v1.LicensePool
 (*GetLicensePoolRequest)(nil),                  // 2:
google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
 (*UpdateLicensePoolRequest)(nil),               // 3:
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
 (*AssignRequest)(nil),                      // 4: google.cloud.commerce.consumer.procurement.v1.AssignRequest
 (*AssignResponse)(nil),                      // 5: google.cloud.commerce.consumer.procurement.v1.AssignResponse
 (*UnassignRequest)(nil),                     // 6: google.cloud.commerce.consumer.procurement.v1.UnassignRequest
 (*UnassignResponse)(nil),                    // 7: google.cloud.commerce.consumer.procurement.v1.UnassignResponse
 (*EnumerateLicensedUsersRequest)(nil),          // 8:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
 (*LicensedUser)(nil),
                        // 9: google.cloud.commerce.consumer.procurement.v1.LicensedUser
 (*EnumerateLicensedUsersResponse)(nil),         // 10:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
 (*AssignmentProtocol_ManualAssignmentType)(nil), // 11:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
 (*AssignmentProtocol_AutoAssignmentType)(nil),   // 12:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
 (*fieldmaskpb.FieldMask)(nil),                  // 13: google.protobuf.FieldMask
 (*timestamppb.Timestamp)(nil),                   // 14: google.protobuf.Timestamp
 (*durationpb.Duration)(nil),                    // 15: google.protobuf.Duration
}
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs =
[]int32{
 11, // 0:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.manual_assignment_type:type_name
 -> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
 12, // 1: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.auto_assignment_type:type_name -
> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
 0,  // 2: google.cloud.commerce.consumer.procurement.v1.LicensePool.license_assignment_protocol:type_name ->
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
 1,  // 3: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.license_pool:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 13, // 4: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.update_mask:type_name ->
google.protobuf.FieldMask
 14, // 5: google.cloud.commerce.consumer.procurement.v1.LicensedUser.assign_time:type_name ->
google.protobuf.Timestamp
 14, // 6: google.cloud.commerce.consumer.procurement.v1.LicensedUser.recent_usage_time:type_name
```

```
 -> google.protobuf.Timestamp
 9,  // 7:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse.licensed_users:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensedUser
 15, // 8:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType.inactive_license_ttl:t
ype_name -> google.protobuf.Duration
 2,  // 9: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:input_type -
> google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
 3,  // 10:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:input_type ->
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
 4,  // 11: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:input_type ->
google.cloud.commerce.consumer.procurement.v1.AssignRequest
 6,  // 12: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:input_type
 -> google.cloud.commerce.consumer.procurement.v1.UnassignRequest
 8,  // 13:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:input_typ
e -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
 1,  // 14:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 1,  // 15:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 5,  // 16: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:output_type ->
google.cloud.commerce.consumer.procurement.v1.AssignResponse
 7,  // 17: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:output_type ->
google.cloud.commerce.consumer.procurement.v1.UnassignResponse
 10, // 18:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:output_ty
pe
 -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
 14, // [14:19] is the sub-list for method output_type
 9,  // [9:14] is the sub-list for method input_type
 9,  // [9:9] is the sub-list for extension type_name
 9,  // [9:9] is the sub-list for extension extendee
 0,  // [0:9] is the sub-list for field type_name
}

func init() {
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init()
}
func file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init() {
 if File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto != nil {
  return
 }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].Oneof
```

```
Wrappers = []any{
  (*AssignmentProtocol_ManualAssignmentType_)(nil),
  (*AssignmentProtocol_AutoAssignmentType_)(nil),
 }
 type x struct{}
 out := protoimpl.TypeBuilder{
  File:
 protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc,
   NumEnums:      0,
   NumMessages:   13,
   NumExtensions: 0,
   NumServices:   1,
  },
  GoTypes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes,
  DependencyIndexes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs,
  MessageInfos:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes,
 }.Build()
 File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto = out.File
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc = nil
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes = nil
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs
 = nil
}

// Reference imports to suppress errors if they are not otherwise used.
var _ context.Context
var _ grpc.ClientConnInterface

// This is a compile-time assertion to ensure that this generated file
// is compatible with the grpc package it is being compiled against.
const _ = grpc.SupportPackageIsVersion6

// LicenseManagementServiceClient is the client API for LicenseManagementService service.
//
// For semantics around ctx use and closing/ending streaming RPCs, please refer to
https://godoc.org/google.golang.org/grpc#ClientConn.NewStream.
type LicenseManagementServiceClient interface {
 // Gets the license pool.
 GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
 // Updates the license pool if one exists for this Order.
 UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool,
error)
```

```
 // Assigns a license to a user.
 Assign(ctx
 context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error)
 // Unassigns a license from a user.
 Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error)
 // Enumerates all users assigned a license.
 EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption)
(*EnumerateLicensedUsersResponse, error)
}

type licenseManagementServiceClient struct {
 cc grpc.ClientConnInterface
}

func NewLicenseManagementServiceClient(cc grpc.ClientConnInterface) LicenseManagementServiceClient {
 return &licenseManagementServiceClient{cc}
}

func (c *licenseManagementServiceClient) GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts
...grpc.CallOption) (*LicensePool, error) {
 out := new(LicensePool)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool", in, out, opts...)
 if err != nil {
  return nil, err
 }
 return
 out, nil
}

func (c *licenseManagementServiceClient) UpdateLicensePool(ctx context.Context, in
*UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
 out := new(LicensePool)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool", in, out,
opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

func (c *licenseManagementServiceClient) Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption)
(*AssignResponse, error) {
 out := new(AssignResponse)
 err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign", in,
out, opts...)
 if err != nil {
```

```
  return nil, err
 }
 return out, nil
}

func (c *licenseManagementServiceClient) Unassign(ctx context.Context, in *UnassignRequest, opts
...grpc.CallOption) (*UnassignResponse, error) {
 out := new(UnassignResponse)
 err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
 in, out, opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

func (c *licenseManagementServiceClient) EnumerateLicensedUsers(ctx context.Context, in
*EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error) {
 out := new(EnumerateLicensedUsersResponse)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers", in, out,
opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

// LicenseManagementServiceServer is the server API for LicenseManagementService service.
type LicenseManagementServiceServer interface {
 // Gets the license pool.
 GetLicensePool(context.Context, *GetLicensePoolRequest) (*LicensePool, error)
 // Updates the license pool if one exists for this Order.
 UpdateLicensePool(context.Context, *UpdateLicensePoolRequest) (*LicensePool, error)
 // Assigns a license to a user.
 Assign(context.Context, *AssignRequest)
 (*AssignResponse, error)
 // Unassigns a license from a user.
 Unassign(context.Context, *UnassignRequest) (*UnassignResponse, error)
 // Enumerates all users assigned a license.
 EnumerateLicensedUsers(context.Context, *EnumerateLicensedUsersRequest)
(*EnumerateLicensedUsersResponse, error)
}

// UnimplementedLicenseManagementServiceServer can be embedded to have forward compatible
implementations.
type UnimplementedLicenseManagementServiceServer struct {
}
```

```
func (*UnimplementedLicenseManagementServiceServer) GetLicensePool(context.Context,
*GetLicensePoolRequest) (*LicensePool, error) {
 return nil, status.Errorf(codes.Unimplemented, "method GetLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) UpdateLicensePool(context.Context,
*UpdateLicensePoolRequest) (*LicensePool, error) {
 return nil, status.Errorf(codes.Unimplemented, "method UpdateLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Assign(context.Context, *AssignRequest)
 (*AssignResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method Assign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Unassign(context.Context, *UnassignRequest)
(*UnassignResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method Unassign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) EnumerateLicensedUsers(context.Context,
*EnumerateLicensedUsersRequest) (*EnumerateLicensedUsersResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method EnumerateLicensedUsers not implemented")
}

func RegisterLicenseManagementServiceServer(s *grpc.Server, srv LicenseManagementServiceServer) {
 s.RegisterService(&_LicenseManagementService_serviceDesc, srv)
}

func _LicenseManagementService_GetLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(GetLicensePoolRequest)
 if err := dec(in);
 err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, req.(*GetLicensePoolRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_UpdateLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
```

```
 in := new(UpdateLicensePoolRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool",
 }
 handler
 := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, req.(*UpdateLicensePoolRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Assign_Handler(srv interface{}, ctx context.Context, dec func(interface{})
error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(AssignRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).Assign(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).Assign(ctx, req.(*AssignRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Unassign_Handler(srv
 interface{}, ctx context.Context, dec func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{},
error) {
 in := new(UnassignRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).Unassign(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
```

```
 Server:     srv,
 FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).Unassign(ctx, req.(*UnassignRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_EnumerateLicensedUsers_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(EnumerateLicensedUsersRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if
 interceptor == nil {
  return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod:
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx,
req.(*EnumerateLicensedUsersRequest))
 }
 return interceptor(ctx, in, info, handler)
}

var _LicenseManagementService_serviceDesc = grpc.ServiceDesc{
 ServiceName: "google.cloud.commerce.consumer.procurement.v1.LicenseManagementService",
 HandlerType: (*LicenseManagementServiceServer)(nil),
 Methods: []grpc.MethodDesc{
  {
   MethodName: "GetLicensePool",
   Handler:    _LicenseManagementService_GetLicensePool_Handler,
  },
  {
   MethodName: "UpdateLicensePool",
   Handler:    _LicenseManagementService_UpdateLicensePool_Handler,
  },
  {
   MethodName: "Assign",
   Handler:
    _LicenseManagementService_Assign_Handler,
  },
```

```
  {
   MethodName: "Unassign",
   Handler:    _LicenseManagementService_Unassign_Handler,
  },
  {
   MethodName: "EnumerateLicensedUsers",
   Handler:    _LicenseManagementService_EnumerateLicensedUsers_Handler,
  },
 },
 Streams:  []grpc.StreamDesc{},
 Metadata: "google/cloud/commerce/consumer/procurement/v1/license_management_service.proto",
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test
// Copyright 2024 Google LLC
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute
```

```
import (
 "bytes"
 "context"
 "fmt"
 "log/slog"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var
 newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete             []gax.CallOption
 Get                []gax.CallOption
 GetIamPolicy       []gax.CallOption
 Insert             []gax.CallOption
 List               []gax.CallOption
 SetIamPolicy       []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
```

```
    },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
   }),
  },
  SetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
 }
}

//
 internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
```

```
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection
 to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
```

```
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty
 if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses,
 use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}
```

```
// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners
 who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions

 logger *slog.Logger
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
  logger:      internaloption.GetLogger(opts),
 }
```

```
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient
 with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
```

```
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client
 and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers
```

```
 buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Delete")
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf,
resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders,
 hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
```

```
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
 exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
```

```
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds,
 "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetIamPolicy")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended
 for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
```

```
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.RequestId != nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx,
hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Insert")
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
```

```
 return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// List retrieves the
 list of licenses available in the specified project. This method does not get any licenses that belong to other projects,
including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available
licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32
  {
   req.MaxResults = proto.Uint32(uint32(math.MaxInt32))
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
  }
  if req != nil && req.MaxResults != nil {
   params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
  }
  if req != nil && req.OrderBy != nil {
   params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
```

```
 }
 if req != nil && req.PageToken != nil {
  params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from
client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "List")
  if err != nil {
   return err
  }
  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken,
```

```
 nil
 }

 it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
 it.pageInfo.MaxSize = int(req.GetMaxResults())
 it.pageInfo.Token = req.GetPageToken()

 return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds
 := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()),
"resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
```

```
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "SetIamPolicy")
  if err != nil {
   return err
  }

  if
 err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
```

```
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
  if err !=
 nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
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```

```
// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
```

```
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.
```

```
package procurement_test

import (
 "context"

 procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
 procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
 longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicenseManagementClient() {
 ctx
 := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleNewLicenseManagementRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c,
 err := procurement.NewLicenseManagementRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseManagementClient_Assign() {
```

```
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.AssignRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#AssignRequest.
 }
 resp, err := c.Assign(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 //
 TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_EnumerateLicensedUsers() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.EnumerateLicensedUsersRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
dUsersRequest.
 }
 it := c.EnumerateLicensedUsers(ctx, req)
 for {
  resp, err := it.Next()
```

```
 if err == iterator.Done {
  break
 }
 if err != nil {
  // TODO: Handle error.
 }
 //
TODO: Use resp.
 _ = resp

 // If you need to access the underlying RPC response,
 // you can do so by casting the `Response` as below.
 // Otherwise, remove this line. Only populated after
 // first call to Next(). Not safe for concurrent access.
 _ = it.Response.(*procurementpb.EnumerateLicensedUsersResponse)
}
}

func ExampleLicenseManagementClient_GetLicensePool() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.GetLicensePoolRequest{
  // TODO: Fill request struct fields.
  //
 See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#GetLicensePoolRe
quest.
 }
 resp, err := c.GetLicensePool(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_Unassign() {
 ctx := context.Background()
```

```
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.UnassignRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UnassignRequest.
 }
 resp,
 err := c.Unassign(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_UpdateLicensePool() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.UpdateLicensePoolRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UpdateLicensePoo
lRequest.
 }
 resp, err := c.UpdateLicensePool(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
```

```
//
TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_GetOperation() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := procurement.NewLicenseManagementClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &longrunningpb.GetOperationRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/longrunning/autogen/longrunningpb#GetOperationRequest.
}
resp, err := c.GetOperation(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
```

```
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
```

```
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}
```

```
func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
```

```
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
 {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}
```

```
func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var
 File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69,
 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
 0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
 0x01, 0x01, 0x12,
 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
```

```
0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54,
0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69,
0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f,
0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
0x72,
0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
```

```
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = []any{
 (Permission_GranteeType)(0),
 // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func file_google_ai_generativelanguage_v1beta_permission_proto_init()
 {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
```

```
 },
 GoTypes:          file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
 DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
 EnumInfos:         file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
 MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
= nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
```

1.4500 chalk 5.4.1

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1.4501 docker v23.0.3+incompatible

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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, , 2022, <kazorin@basealt.ru>
Restorer, , 2024, <restorer@mail2k.ru>

vim:tw=78:ts=8:noet:ft=help:norl:

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
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uganda.txt For Vim version 9.1. Last change: 2024 Aug 14

VIM REFERENCE MANUAL by Bram Moolenaar

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SUMMARY
iccf *ICCF*
Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see |kcc| below or visit the ICCF web site, available at these URLs:

https://iccf-holland.org/
https://www.vim.org/iccf/
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You can also sponsor the development of Vim, see |sponsor|. The money goes to Uganda anyway.

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Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a |sponsor|. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

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MODIFIED_BY define.

==========

Kibaale Children's Centre *kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there usually is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that in the past 10 to 30% of the Ugandans are infected with HIV. Because parents
die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. Although AIDS is now mostly under control, the problems are still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the
orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These
are used to build a good latrine.
They are sold below cost price.

There is a clinic at the project, which provides children and their family medical help. Since 2020 a maternity ward was added and 24/7 service is available. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

donate

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic:
 Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have
 any further questions, send e-mail: <Bram@vim.org>.

The address of the centre is:
 Kibaale Children's Centre
 p.o. box 1658
 Masaka, Uganda, East Africa

Sending money: *iccf-donations*

Check the ICCF web site for the latest information! See |iccf| for the URL.

USA: The methods mentioned below can be used.

If you must send a check send it to our Canadian partner:
https://www.kuwasha.net/

Canada: Contact Kuwasha in Surrey, Canada. They take care of the
Canadian sponsors for the children in Kibaale. Kuwasha
forwards 100% of the money to the project in Uganda. You can
send them a one time donation directly.
Look on their site for information about sponsorship:
https://www.kuwasha.net/
If you make a donation to Kuwasha you will receive a tax
receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in
Amersfoort. This will allow for tax deduction if you live in
Holland. ING bank, IBAN: NL95
INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.
Check the ICCF web site for the latest information:
https://iccf-holland.org/germany.html

Europe: Use a bank transfer if possible. See "Others" below for the
swift code and IBAN number.
Any other method should work. Ask for information about
sponsorship.

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really simple to use. Use this link to find more info:
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The e-mail address for sending the money to is:
Bram@iccf-holland.org

Others: Transfer to this account if possible:
ING bank: IBAN: NL95 INGB 0004 5487 74
Swift code: INGBNL2A
under the name "stichting ICCF Holland", Amersfoort
Checks are not accepted.

vim:tw=78:ts=8:noet:ft=help:norl:
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1.4506 slf4j-impl 2.0.16

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Section: pkg.m4 - Macros to locate and utilise pkg-config.

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1.4516 kubernetes-apimachinery v1.30.2

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1.4531 lua-cjson 2.1.0

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1.4532 busybox 1.37.0-r12

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```
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```

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```
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of
Vice
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1.4533 ssl-client 1.37.0-r12

1.4533.1 Available under license :

```
# Automatically generated by apkbuild-cpan, template 4
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Celeste <cielesti@protonmail.com>
maintainer="Celeste <cielesti@protonmail.com>"
pkgname=perl-bsd-resource
pkgver=1.2911
pkgrel=10
#_pkgreal is used by apkbuild-cpan to find modules at MetaCpan
_pkgreal=BSD-Resource
pkgdesc="Perl extension implements the BSD process resource limit functions"
```

```
url="https://metacpan.org/release/BSD-Resource/"
arch="all"
license="Artistic-2.0 OR LGPL-2.0"
depends="perl"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/J/JH/JHI/BSD-Resource-$pkgver.tar.gz"
builddir="$srcdir/$_pkgreal-$pkgver"

build() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 PERL_MM_USE_DEFAULT=1 perl -I. Makefile.PL \
  INSTALLDIRS=vendor \
  NO_PACKLIST=1 \
  NO_PERLLOCAL=1
 make
}

check() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 make test
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="
d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16dfa5417f663b
8065ba65f4fea16dc9262728b3b6b85
  BSD-Resource-1.2911.tar.gz
"
```

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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
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url="https://bsd-games.sourceforge.io/"
arch="all"
license="BSD-3-Clause"
install="$pkgname.post-install"
makedepends="ncurses-dev coreutils" # configure causes busybox expr error
subpackages="$pkgname-doc"
source="https://sourceforge.net/projects/bsd-games/files/bsd-games-$pkgver.tar.gz
 0001-bsd-games-scores-dir.patch
 "
options="!check" # no tests

build() {
 # some GNU autoconf options are ignored, but it works
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr \
  --sysconfdir=/etc \
  --mandir=/usr/share/man \
  --scoredir=/usr/share/$pkgname
 make
}

package() {
 make DESTDIR="$pkgdir" install
 install -Dm644 LICENSE "$pkgdir"/usr/share/licenses/bsd-games/LICENSE
}

sha512sums="
aaf36d09d4fe68514a5c279063d7e77a9a9a84c447037cba974b29faa07eb80c2aab2379d0699c196b5c27ffe1b2bb2c6
8d3390143e0e62d5e3d210ccfb61294
  bsd-games-3.3.tar.gz
e1def0d4835a877242c4173fae862e278a7858738e0bacacbb045a42bcabec2aa7c72d000bbd2421ce35fe66cdc1f52c0
```

577b7e278029ca5ed50f7aab22319f6 0001-bsd-games-scores-dir.patch
"
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pkgver=2.3.21

```
pkgrel=8
pkgdesc="A library for high-performance 2D graphics"
url="https://www.levien.com/libart/"
arch="all"
options="!check"  # No test suite.
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source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
 "

builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
 update_config_sub
 default_prepare
}

build() {
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr
 make
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7
6654309e001aee9bace727b5b4c8589405256a3c020  libart_lgpl-2.3.21.tar.bz2"
```

mini_sendmail - accept email on behalf of real sendmail

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# Contributor: Carlo Landmeter <clandmeter@alpinelinux.org>
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pkgname=spdx-licenses
pkgver=3.26.0
pkgrel=0
pkgdesc="Various data formats for the SPDX License List"
url="https://spdx.org/"
arch="noarch"
options="!check" # no test suite
license="CC-BY-3.0"
source="license-list-data-$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v$pkgver.tar.gz"
builddir="$srcdir/license-list-data-$pkgver"
subpackages="$pkgname-list"

_types="html json rdfa rdfnt rdfturtle rdfxml template text"

for type in $_types; do
 subpackages="$subpackages $pkgname-$type:_subpkg"
done

package() {
 mkdir -p "$pkgdir"
}

_subpkg() {
 local type=${subpkgname/$pkgname-/}
 pkgdesc="$pkgdesc ($type)"
 install_if="$pkgname=$pkgver-r$pkgrel"
 mkdir -p "$subpkgdir"/usr/share/spdx
 cp -r "$builddir"/$type "$subpkgdir"/usr/share/spdx/
}

list() {
 pkgdesc="$pkgdesc (licence list)"
 mkdir -p "$subpkgdir"/usr/share/spdx
 local i; for i in "$builddir"/text/*.txt;
 do
  local license=${i##*/}
  echo ${license%.*} >> "$subpkgdir"/usr/share/spdx/license.lst
```

```
 done
}

sha512sums="
67e618d4642dfe4f366935d9514d6f7941d3711e77c49bc1b340ac572d36015981b8f10c72a9f80f1d83e132ae7e5093c
0155e0c0e786e4777ee16d1cb7b885a  license-list-data-3.26.0.tar.gz
"
# Contributor: Patrycja Rosa <alpine@ptrcnull.me>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=bsd-compat-headers
pkgver=0.7.2
pkgrel=6
pkgdesc="BSD compatibility headers (cdefs, queue, tree)"
url="https://gitlab.alpinelinux.org/alpine/aports"
arch="noarch"
license="BSD-2-Clause AND BSD-3-Clause"
source="
 cdefs.h
 queue.h
 tree.h
"
builddir="$srcdir"
options="!check" # just headers

package() {
 mkdir -p "$pkgdir"
 install -Dm644 -t "$pkgdir"/usr/include/sys \
  cdefs.h queue.h tree.h
}
sha512sums="
37c8fc73c7aea7b490f7850927e2bb91d12137c9e59e22c084146d515696dbc7973b5de92f4c987ba080dd2502ba8312
7006442c3f019b6447a620c0cae73178  cdefs.h
2f0d5e6e4dc3350285cf17009265dddcbe12431c111868eea39bc8cb038ab7c1f2acacbb21735c4e9d4a1fd106a8fc0f86
11ea33987d4faba37dde5ce6da0750  queue.h
d9ac210d81feb8ad2655bc80fb065d3fe20ae4417b32b4a1711e6738a4870140005c13373b5d1846ef3ce5ae6da45f2da
cef2092881eded0a2e94f6a07752ef3  tree.h
"
```

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"X-Splines: A Spline Model Designed for the End User" by C. Blanc and C. Schlick, Proceedings of SIGGRAPH'95
http://dept-info.labri.u-bordeaux.fr/~schlick/DOC/sig1.html

```
# Contributor: Dhruvin Gandhi <contact@dhru.vin>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=py3-license-expression
_pkgname=license_expression
pkgver=30.4.1
pkgrel=0
pkgdesc="Library to parse, compare, simplify and normalize license expressions"
url="https://github.com/nexB/license-expression"
arch="noarch"
license="Apache-2.0"
depends="python3 py3-boolean.py"
makedepends="py3-setuptools py3-setuptools_scm py3-gpep517 py3-wheel"
checkdepends="py3-pytest py3-pytest-xdist"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/l/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir/$_pkgname-$pkgver"

build() {
 gpep517 build-wheel \
  --wheel-dir .dist \
  --output-fd 3 3>&1 >&2
}

check() {
 python3 -m venv --clear --without-pip --system-site-packages .testenv
 .testenv/bin/python3 -m installer .dist/*.whl
 .testenv/bin/python3 -m pytest
}

package() {
```

```
 python3 -m installer -d "$pkgdir" \
  .dist/*.whl
}

sha512sums="
114c630f098939757e49187e35b4e54883266a2ee9ca283724992420ef4c860f9606a8342da0ab74d93627c10805f312
fda3f699cbc7c4fbd47a71e220440fb0
  license_expression-30.4.1.tar.gz
"
# Contributor: Fabian Affolter <fabian@affolter-engineering.ch>
# Maintainer: Fabian Affolter <fabian@affolter-engineering.ch>
pkgname=py3-flake8-copyright
_pkgname=flake8-copyright
pkgver=0.2.4
pkgrel=3
pkgdesc="Extension for flake8 which checks for copyrights"
options="!check" # No testsuite
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="py3-flake8 py3-setuptools"
makedepends="py3-gpep517 py3-wheel"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir"/$_pkgname-$pkgver

replaces="py-flake8-copyright"                  # Backwards compatibility
provides="py-flake8-copyright=$pkgver-r$pkgrel" # Backwards compatibility

build() {
 gpep517 build-wheel \
  --wheel-dir .dist \
  --output-fd 3 3>&1 >&2
}

package() {
 gpep517 install-wheel --destdir "$pkgdir" \
  .dist/*.whl
}

sha512sums="
a6ab47e1bb715618f075c51f398e18180404871b3b0faf1c2d30701d5203db6bc23771bf22ffb5bafcd8ee856b9b64237
b316bd503ae7dceed6ca284ccd5a74d
  flake8-copyright-0.2.4.tar.gz
"
# Maintainer: fossdd <fossdd@pwned.life>
pkgname=cargo-license
pkgver=0.6.1
```

```
pkgrel=1
pkgdesc="Cargo subcommand to see license of dependencies"
url="https://github.com/onur/cargo-license"
arch="all"
license="MIT"
makedepends="cargo cargo-auditable"
source="$pkgname-$pkgver.tar.gz::https://crates.io/api/v1/crates/cargo-license/$pkgver/download"

prepare() {
 default_prepare

 cargo fetch --target="$CTARGET" --locked
}

build() {
 cargo auditable build --release --frozen
}

check() {
 cargo test --frozen
}

package() {
 install -Dm755 target/release/cargo-license -t "$pkgdir"/usr/bin
}

sha512sums="
36215145e79965be090ae2f5ce6f5eb208465eb67a94c26bed1fe70a131c46c6dc35695e30852759b7366883fbc3caf00
272d796ac634f0a5e1d49232b6b29d5  cargo-license-0.6.1.tar.gz
"
```

1.4534 python3-defusedxml 0.7.1-1

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1.4535 ssh-tools 1.7-2

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1.4536 libssh2 1.11.1

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1.4537 golang 1.22.11

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Contributor Ladder

Within the Kubernetes community, the concept of a contributor ladder has been developed to define how individuals can earn formal roles within the project. The Gateway API contributor ladder largely follows the [roles defined by the broader Kubernetes community](https://github.com/kubernetes/community/blob/master/community-membership.md), though there are some aspects that are unique to this community.

Goals

We hope that this doc will provide an initial step towards the following goals:

* Ensure the long term health of the Gateway API community
* Encourage new contributors to work towards formal roles and responsibilities in the project
* Clearly define the path towards leadership roles
* Develop a strong leadership pipeline so we have great candidates to fill project leadership roles

Scope

The following repositories are covered by this doc:

* [kubernetes-sigs/gateway-api](https://github.com/kubernetes-sigs/gateway-api)
* [kubernetes-sigs/ingress2gateway](https://github.com/kubernetes-sigs/ingress2gateway)
* kubernetes-sigs/blixt (once migration is complete)

Within each of these projects, there are opportunities to become an approver or reviewer for either the entire project, or a subset of that project. For example, you could become a reviewer or approver focused on just docs, GEPs, API changes, or conformance tests.

General Guidelines

1. Everyone is welcome

We appreciate all contributions. You dont need to have a formal role in the project to make or review pull requests, and help with issues or discussions. Accepting a formal role within the project is entirely optional.

2. These roles require continued contributions

Applying for one of the roles defined above should only be done if you intend to continue to contribute at a level that would merit that role. If for any reason you are unable to continue in one of the roles above, please resign. Members with an extended period away from the project with no activity will be removed from the Kubernetes GitHub Organizations and will be required to go through the org membership process again after re-familiarizing themselves with the current state.

3. Dont merge without consensus

If you have reason to believe that a change may be contentious, please wait for additional perspectives from others before merging any PRs. Even if you have access to merge a PR, it doesnt mean you should. Although we cant have PRs blocked indefinitely, we need to make sure everyone has had a chance to present their perspective.

4. Start a discussion

If youre interested in working towards one of these roles, please reach out to a Gateway API maintainer on Slack.

Contributor Ladder

The Gateway API contributor ladder has the following steps:

1. Member
2. Reviewer
3. Approver
4. Maintainer

This is also a GAMMA-specific leadership role that does not fit as cleanly on this ladder. All of these roles will be defined in more detail below.

Member, Reviewer, and Approver

The first steps on the contributor ladder are already [clearly defined in the

upstream Kubernetes
Community](https://github.com/kubernetes/community/blob/master/community-membership.md#community-membership).
Gateway API follows those guidelines along with the rest of the Kubernetes
community. Within Gateway API, there are a variety of areas one can become a
reviewer or approver, this includes:

* Conformance
* Documentation
* GEPs

Maintainers and GAMMA Leads

The final steps on the contributor ladder represent large overall leadership
roles within the project as a whole. The spaces available for these roles are
limited (generally 3-4 people in each role is ideal). Wherever possible, we try
to ensure that different companies are represented in these roles.

Maintainers

Gateway API Maintainers are known as [Subproject
Owners](https://github.com/kubernetes/community/blob/master/community-membership.md#subproject-owner)
within the Kubernetes community. To become a
Gateway API Maintainer, the most
important things we expect are:

* Long term, sustained contributions to Gateway API for at least 6 months
* Deep understanding of technical goals and direction of the project
* Successfully authored and led significant enhancement proposals
* Approver for at least 3 months
* Ability to lead community meetings

In addition to all of the expectations described above, we expect maintainers to
set the technical direction and goals for the project. This role is critical to
the health of the project, maintainers should mentor new approvers and
reviewers, and ensure that there are healthy processes in place for discussion
and decision making. Finally, maintainers are ultimately responsible for
releasing new versions of the API.

GAMMA Leads

The concept of GAMMA Leads does not have a perfect parallel on the upstream
Kubernetes community ladder. They are essentially Subproject Owners, but for the
GAMMA initiative, which is a major initiative within Gateway
API.

To become a GAMMA lead, the most important thing we expect are:

* Significant experience with Service Mesh implementation(s)
* Deep understanding of technical goals and direction of the project
* Long term, sustained contributions to the GAMMA initiative for at least 6 months
* Ability to lead community meetings

In addition to all of the expectations described above, we expect GAMMA Leads to set the technical direction and goals for the GAMMA initiative. They should ensure that there are healthy processes in place for discussion and decision making and that the release goals and milestones are clearly defined.

1.4539 sctp 0.0.0-20230406120618-7ff4192f6ff2

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1.4543 genproto-googleapis-api 0.0.0-20240826202546-f6391c0de4c7

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1.4544 vl53l0x-c-api 5.15.0-126.136

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on

```
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather
 lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*     as needed. This means that data must always be copied to create
*     the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*     Fix is simple: make large buffers large enough to hold entire
*     SDU, and leave <small_buffer_data> bytes empty at the start. Then
*     copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*     buffers. This is done by 2 things:
*       1) skb->destructor / skb->atm.recycle_buffer
*           combined, allow nicstar_free_rx_skb to be called to
*           recycle large data buffers
*       2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*     details.
*
*
*
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```

*
* M. Welsh, 6 July 1996
*
*
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tomb - support for clean goroutine termination in Go.

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*/

package minio

import (
 "bytes"
 "context"
 "encoding/xml"
 "fmt"
 "net/http"
 "net/url"

 "github.com/minio/minio-go/v7/pkg/s3utils"
)

// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html
type objectLegalHold struct {
 XMLNS   string          `xml:"xmlns,attr,omitempty"`
 XMLName
 xml.Name        `xml:"LegalHold"`
 Status  LegalHoldStatus `xml:"Status,omitempty"`
}

// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
type PutObjectLegalHoldOptions struct {
 VersionID string
 Status    *LegalHoldStatus
}

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
type GetObjectLegalHoldOptions struct {
 VersionID string
}

// LegalHoldStatus - object legal hold status.
```

```
type LegalHoldStatus string

const (
 // LegalHoldEnabled indicates legal hold is enabled
 LegalHoldEnabled LegalHoldStatus = "ON"

 // LegalHoldDisabled indicates legal hold is disabled
 LegalHoldDisabled LegalHoldStatus = "OFF"
)

func (r LegalHoldStatus) String() string {
 return string(r)
}

// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {
 return r == LegalHoldEnabled || r == LegalHoldDisabled
}

func newObjectLegalHold(status *LegalHoldStatus)
 (*objectLegalHold, error) {
 if status == nil {
  return nil, fmt.Errorf("Status not set")
 }
 if !status.IsValid() {
  return nil, fmt.Errorf("invalid legal hold status `%v`", status)
 }
 legalHold := &objectLegalHold{
  Status: *status,
 }
 return legalHold, nil
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c *Client) PutObjectLegalHold(ctx context.Context, bucketName, objectName string, opts
PutObjectLegalHoldOptions) error {
 // Input validation.
 if err := s3utils.CheckValidBucketName(bucketName); err != nil {
  return err
 }

 if err := s3utils.CheckValidObjectName(objectName); err != nil {
  return err
 }

 // Get resources properly escaped and lined up before
 // using them in http request.
 urlValues := make(url.Values)
```

```
 urlValues.Set("legal-hold", "")

 if opts.VersionID != "" {
  urlValues.Set("versionId", opts.VersionID)
 }

 lh, err := newObjectLegalHold(opts.Status)
 if err != nil {
  return err
 }

 lhData, err := xml.Marshal(lh)
 if
 err != nil {
  return err
 }

 reqMetadata := requestMetadata{
  bucketName:       bucketName,
  objectName:       objectName,
  queryValues:      urlValues,
  contentBody:      bytes.NewReader(lhData),
  contentLength:    int64(len(lhData)),
  contentMD5Base64: sumMD5Base64(lhData),
  contentSHA256Hex: sum256Hex(lhData),
 }

 // Execute PUT Object Legal Hold.
 resp, err := c.executeMethod(ctx, http.MethodPut, reqMetadata)
 defer closeResponse(resp)
 if err != nil {
  return err
 }
 if resp != nil {
  if resp.StatusCode != http.StatusOK && resp.StatusCode != http.StatusNoContent {
   return httpRespToErrorResponse(resp, bucketName, objectName)
  }
 }
 return nil
}

// GetObjectLegalHold gets legal-hold status of given object.
func (c *Client) GetObjectLegalHold(ctx context.Context, bucketName, objectName string, opts
GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {
 // Input validation.
 if err := s3utils.CheckValidBucketName(bucketName); err != nil {
  return
```

```
 nil, err
 }

 if err := s3utils.CheckValidObjectName(objectName); err != nil {
  return nil, err
 }
 urlValues := make(url.Values)
 urlValues.Set("legal-hold", "")

 if opts.VersionID != "" {
  urlValues.Set("versionId", opts.VersionID)
 }

 // Execute GET on bucket to list objects.
 resp, err := c.executeMethod(ctx, http.MethodGet, requestMetadata{
  bucketName:       bucketName,
  objectName:       objectName,
  queryValues:      urlValues,
  contentSHA256Hex: emptySHA256Hex,
 })
 defer closeResponse(resp)
 if err != nil {
  return nil, err
 }
 if resp != nil {
  if resp.StatusCode != http.StatusOK {
   return nil, httpRespToErrorResponse(resp, bucketName, objectName)
  }
 }
 lh := &objectLegalHold{}
 if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
  return nil, err
 }

 return &lh.Status, nil
}
```

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 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
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package api

import (
 "io"
 "strings"
 "time"
)

type License struct {
 // The unique identifier of the license
 LicenseID string `json:"license_id"`

 // The customer ID associated with the license
 CustomerID string `json:"customer_id"`

 // If set, an identifier that should be used to lock the license to a
 // particular site, cluster, etc.
 InstallationID string `json:"installation_id"`

 // The time at which the license was issued
 IssueTime time.Time `json:"issue_time"`

 // The time at which the license starts being valid
 StartTime time.Time `json:"start_time"`

 // The time after which the license expires
 ExpirationTime time.Time `json:"expiration_time"`

 // The time at which the license ceases to function and can
 // no longer be used in any capacity
 TerminationTime time.Time `json:"termination_time"`

 // Whether the license will ignore termination
 IgnoreTermination bool `json:"ignore_termination"`

 //
 The product the license is valid for
 Product string `json:"product"`
```

```
 // License Specific Flags
 Flags map[string]interface{} `json:"flags"`

 // Modules is a list of the licensed enterprise modules
 Modules []string `json:"modules"`

 // List of features enabled by the license
 Features []string `json:"features"`
}

type LicenseReply struct {
 Valid    bool
 License  *License
 Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
 var reply LicenseReply
 if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
  return nil, err
 } else {
  return &reply, nil
 }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
 r := op.c.newRequest("GET", "/v1/operator/license")
 r.params.Set("signed", "1")
 r.setQueryOptions(q)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return "", err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return "", err
 }

 data, err := io.ReadAll(resp.Body)
 if
 err != nil {
  return "", err
 }

 return string(data), nil
}
```

```
// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r := op.c.newRequest("DELETE", "/v1/operator/license")
 r.setWriteOptions(opts)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return nil, err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return nil, err
 }
 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
 }
 return &reply, nil
}

// LicensePut will configure the Consul Enterprise license for the target datacenter
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set
 via agent configuration instead of through the API
func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r := op.c.newRequest("PUT", "/v1/operator/license")
 r.setWriteOptions(opts)
 r.body = strings.NewReader(license)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return nil, err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return nil, err
 }

 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
 }

 return &reply, nil
}
```

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package spec

import (
 "encoding/json"

 "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 LicenseProps
 VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}

// UnmarshalJSON
 hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
 if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
  return err
 }
 return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
 b1, err := json.Marshal(l.LicenseProps)
```

```
 if err != nil {
  return nil, err
 }
 b2, err := json.Marshal(l.VendorExtensible)
 if err != nil {
  return nil, err
 }
 return swag.ConcatJSON(b1, b2), nil
}
```

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1.4555 go-sql-driver-mysql 1.7.1

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1.4556 mmap-go 1.1.0

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*       bug 328281 - visibility leaks not detected when analyzing unused field in private class
*       bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
*******************************************************************************/
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*       bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code
*       bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
*       bug 421543 - [1.8][compiler] Compiler fails to recognize default method being turned into abstract by subtytpe
```

*   Jesper S Moller - Contributions for
*   Bug 405066 - [1.8][compiler][codegen] Implement
 code generation infrastructure for JSR335
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*   Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
*   Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
generator
*   Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*   Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*   Bug 449467 - [1.8][compiler] Invalid lambda deserialization with anonymous class
*   Olivier Tardieu (tardieu@us.ibm.com) - Contributions for
*   Bug 442418 - $deserializeLambda$ off-by-one error when deserializing the captured arguments
 of a lambda that also capture this
**********/

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*   Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*   Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
**********/

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*     Stephan Herrmann - Contribution for
*           bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance
*       bug 388954 - [1.8][compiler] detect default methods in class files
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs
 to be declared abstract
*       bug 390883 - [1.8][compiler] Unable to override default method
*       bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
*       bug 395681 - [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795
*       bug 406928 - computation of inherited methods seems damaged (affecting @Overrides)
*       bug 409473 - [compiler] JDT cannot compile against JRE 1.8
*       Bug 420080 - [1.8] Overridden Default method is reported as duplicated
*******************************************************************************/
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Found in path(s):
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* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
**********/

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* NPE with a method with explicit this and a following incomplete parameter
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* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 416174 - [1.8][compiler][null] Bogus name clash error with null annotations
* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
* Bug 425783 - An
internal error occurred during: "Requesting Java AST from selection". java.lang.StackOverflowError
* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
**********/

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* bug 383368 - [compiler][null] syntactic null analysis for field references
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* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 383368 - [compiler][null] syntactic null analysis for field references
***/

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*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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*   Jean-Marie Henaff <jmhenaff@google.com> (Google) - Bug 481555
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*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 367203 - [compiler][null] detect assigning null to nonnull argument
*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*   bug 382353 - [1.8][compiler] Implementation property modifiers
 should be accepted on default methods.
*   bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   bug 388281 - [compiler][null] inheritance of null annotations as an option
*   bug 401030 - [1.8][null] Null analysis support for lambda methods.
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument annotations
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*   Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize

declaration style null annotations
*	Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
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*          bug 343713 - [compiler] bogus line number in constructor of inner class in 1.5 compliance
*          bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 361407 - Resource leak warning when resource is assigned to a field outside of constructor
*       bug 368546 - [compiler][resource] Avoid
 remaining false positives found when compiling the Eclipse SDK
*       bug 383690 - [compiler] location of error re uninitialized final field should be aligned
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code
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*     Ulrich Grave <ulrich.grave@gmx.de> - Contributions
 for
*                         bug 386692 - Missing "unused" warning on "autowired" fields
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* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
* Bug
 422796 - [compiler][null] boxed boolean reported as potentially null after null test in lazy disjunction
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* Jesper S Moller <jesper@selskabet.org> - initial API and implementation
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocModuleReference.java
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* Stephan Herrmann - Contribution for bug 349326 - [1.7] new warning for missing try-with-resources
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemReferenceBinding.java
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* Stephan Herrmann - Contributions for
* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

*	bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*	Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop
 with close in try/catch
**********/

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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/DoStatement.java
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*	Stephan Herrmann - Contributions for
*	bug 342671 - ClassCastException: org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to org.eclipse.jdt.internal.compiler.lookup.ArrayBinding
*	bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*	Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*	Bug 416181 - [1.8][compiler][null] Invalid assignment
 is not rejected by the compiler
*	Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*	Bug 434600 - Incorrect null analysis error reporting on type parameters
*	Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*	Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
*	Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*	Andy Clement - Contributions for
*		Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
**********/

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ParameterizedQualifiedTypeReference.java
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* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
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*
* Contributors:
* wharley@bea.com - derived base class from BatchMessagerImpl
*
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*     Benjamin Muskalla - Contribution for bug 239066
*     Stephan Herrmann  - Contributions for
*          bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
*          bug 338303 - Warning about Redundant assignment conflicts with definite assignment
*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
 *       bug 365519 - editorial cleanup after bug 186342 and bug 365387
*       bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*       bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*       bug 374605 - Unreasonable warning for enum-based switch statements
*       bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
*       bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       bug 376053 - [compiler][resource] Strange potential resource leak problems
*       bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
*       bug 393719 - [compiler] inconsistent warnings on iteration
 variables
*       bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*       bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs to be declared
abstract
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 382789 - [compiler][null] warn when syntactically-nonnull expression is compared against null
*       bug 376590 - Private fields with @Inject are ignored by unused field validation
*       bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*       bug 402028 - [1.8][compiler] null analysis for reference expressions
*       bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
*       bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*       bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*       Bug
 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first
field
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to
Files::walk
*       Bug 428294 - [1.8][compiler] Type mismatch: cannot convert
 from List<Object> to Collection<Object[]>
*       Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type
Bindings
```

```
*       Bug 416190 - [1.8][null] detect incompatible overrides due to null type annotations
*       Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE_USE locations
*       Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
*       Bug 430150 - [1.8][null] stricter checking against type variables
*       Bug 434600 - Incorrect null analysis error reporting on type parameters
*       Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
*       Bug 438467 - [compiler][null] Better error position for "The method _ cannot implement the corresponding
method _ due to incompatible nullness constraints"
*       Bug 439298 - [null] "Missing code implementation in the compiler" when using @NonNullByDefault
 in package-info.java
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 446442 - [1.8] merge null annotations from super methods
*       Bug 455723 - Nonnull argument not correctly inferred in loop
*       Bug 458361 - [1.8][null] reconciler throws NPE in ProblemReporter.illegalReturnRedefinition()
*       Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
*       Bug 461878 - [1.7][1.8][compiler][null] ECJ compiler does not allow to use null annotations on annotations
*       Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*     Jesper S Moller <jesper@selskabet.org> -  Contributions for
*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*       bug 382721 - [1.8][compiler] Effectively final variables needs
 special treatment
*       bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration
*       bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*       bug 412151 - [1.8][compiler] Check repeating annotation's collection type
*       bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
*       Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
*       Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
*       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*     Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
*                       bug 386692 - Missing "unused" warning on "autowired" fields
*******************************************************************************/
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/SuffixConstants.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/Messages.java
*
 /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/batch/FileFinder.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/MemberTypeBinding.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/SourceTypeCollisionException.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredInitializer.java
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*        bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        bug 388281 - [compiler][null] inheritance of null annotations as an option
*        Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
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*        Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*        Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfInteger.java
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/util/Options.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/tool/Archive.java
*
 /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/util/ArchiveFileObject.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/util/Util.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/tool/ArchiveFileObject.java

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*        Bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*        Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*     Keigo Imai - Contribution for  bug 388903 - Cannot extend inner class as an anonymous class when it
 extends the outer class
*******************************************************************************/
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* Frits Jalvingh - fix for bug 533830.
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/TextBlock.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/CompactConstructorDeclaration.java
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*                         Bug 467482 - TYPE_USE null annotations: Incorrect "Redundant null check"-warning
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IGenericType.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/ISourceMethod.java
*
 /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IGenericField.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IBinaryNestedType.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/ISourceField.java
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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contribution for bug 185682 - Increment/decrement operators mark local variables as read
**********/

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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocFieldReference.java
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* Contributors:
* tyeung@bea.com - initial API and implementation
* IBM Corporation - fix for bug 342757
* Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
**********/

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/MethodInfoWithParameterAnnotations.java
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*     Stephan Herrmann - Contribution for
*        bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*        Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*     Jesper Steen Moller - Contributions for
*        Bug 412150 [1.8] [compiler]
 Enable reflected parameter names during annotation processing
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*    IBM Corporation - Fix for bug 328575
*    het@google.com - Bug 415274 - Annotation processing throws a NPE in getElementsAnnotatedWith()
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/RoundEnvImpl.java
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*    wharley@bea.com - initial API and implementation
```

*   philippe.marschall@netcetera.ch - Fix for 338370
*   IBM Corporation - Fix for validating relative name
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/BatchFilerImpl.java
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/LabeledStatement.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/DefaultProblem.java
*
 /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/Substitution.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/ITypeRequestor.java
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*       Bug 440687 - [compiler][batch][null] improve command line option for external annotations
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*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*    Stephan Herrmann - Contribution for
*       bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 416182 - [1.8][compiler][null]
```

Contradictory null annotations not rejected
**********/

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* Stephan Herrmann - Contributions for
* bug 358827 - [1.7] exception analysis for t-w-r spoils null analysis
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
* bug 345305 - [compiler][null]
Compiler misidentifies a case of "variable can only be null"
* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check

```
*       bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 455723 - Nonnull argument not correctly inferred in loop
*       Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
*       Bug 446691 - [1.8][null][compiler] NullPointerException in SingleNameReference.analyseCode
*******************************************************************************/
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Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/FlowContext.java
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*     Tom Tromey - patch for readTable(String) as described in http://bugs.eclipse.org/bugs/show_bug.cgi?id=32196
*     Stephan Herrmann - Contributions for
*       bug 366003 - CCE in ASTNode.resolveAnnotations(ASTNode.java:639)
*       bug 374605 - Unreasonable warning for enum-based switch statements
*       bug 393719 - [compiler] inconsistent warnings on iteration variables
*       bug 382353 - [1.8][compiler] Implementation property modifiers
 should be accepted on default methods.
*       bug 383973 - [1.8][compiler] syntax recovery in the presence of default methods
*       bug 401035 - [1.8] A few tests have started failing recently
*     Jesper S Moller - Contributions for
*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*       bug 399695 - [1.8][compiler] [1.8][compiler] migrate parser to other syntax for default methods
*       bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration
*       bug 393192 - Incomplete type hierarchy with > 10 annotations
*       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*       Andy Clement - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                       Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*
            Bug 415821 - [1.8][compiler] CLASS_EXTENDS target type annotation missing for anonymous classes
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*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
**********/

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* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
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*     Stephan Herrmann - Contributions for
*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365519 - editorial cleanup after bug 186342 and bug 365387
*       bug 358903 - Filter practically unimportant resource leak warnings
*       bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
 *       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*       bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
*       bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*       bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug
 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*       Bug 426792 - [1.8][inference][impl] generify new type inference engine
*       Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*       Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*       Bug 418743 - [1.8][null] contradictory annotations on invocation of generic method not reported
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 431581 - Eclipse compiles what it should not
*       Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*       Bug 446442 - [1.8] merge null annotations from
 super methods
*       Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error
messages
*       Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*      Jesper S Moller - Contributions for
*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*       bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*     Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
*                       bug 386692 - Missing "unused" warning on "autowired" fields
*     Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
*                       bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
when using MethodSource
*     Sebastian Zarnekow - Contributions
 for
*       bug 544921 - [performance] Poor performance with large source files
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*         Bug 407191 - [1.8] Binary access support for type annotations
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/model/AnnotationValueImpl.java
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* wharley@bea.com - initial API and implementation
* IBM Corporation - fix for 342598

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*    IBM Corporation - Java 8 support
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* Contributors:
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*     Stephan Herrmann - Contributions for
*       Bug 186342 - [compiler][null] Using annotations for null checking
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*******************************************************************************/
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Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/MostSpecificExceptionMethodBinding.java
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*     Stephan Herrmann - Contributions for
*        bug 349326 - [1.7] new warning for missing try-with-resources
*        bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*        Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        Bug 467032 - TYPE_USE Null Annotations: IllegalStateException with annotated arrays of Enum when accessed
via BinaryTypeBinding
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```

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 in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-
jar/org/eclipse/jdt/internal/compiler/lookup/UnresolvedReferenceBinding.java
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*     Stephan Herrmann - Contribution for
*        bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
*        bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*        bug 404728 - [1.8]NPE on QualifiedSuperReference error
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-

jar/org/eclipse/jdt/internal/compiler/ast/QualifiedSuperReference.java
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModule.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/PackageVisibilityStatement.java
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* Stephan Herrmann - Contributions for
* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
* Bug 417758 - [1.8][null] Null safety compromise during array creation.
* Bug
 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
**********/

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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ArrayAllocationExpression.java
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfPackage.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/diagnose/DiagnoseParser.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/BranchStatement.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocAllocationExpression.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/TerminalTokens.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocMessageSend.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/core/compiler/CategorizedProblem.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/ParserBasicInformation.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredStatement.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedTypeReference.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFormatException.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/CaseStatement.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemPackageBinding.java
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* IBM Corporation - Fix for bug 341494
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* bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code
* Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
* Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 405104 -
[1.8][compiler][codegen] Implement support for serializeable lambdas
**********/

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*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*       Bug 406973 - [compiler] Parse MethodParameters attribute
*        Andy Clement - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
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*           bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
```

*	bug 358903 - Filter practically unimportant resource leak warnings
*	bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*	bug 370639 - [compiler][resource]
 restore the default for resource leak warnings
*	bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*	bug 379784 - [compiler] "Method can be static" is not getting reported
*	bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*	bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*	Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*	Bug 371614 - [compiler][resource] Wrong "resource leak" problem on return/throw inside while loop
*	Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
*	Bug 444964 - [1.7+][resource] False resource leak warning (try-with-resources for ByteArrayOutputStream - return inside for loop)
*	Bug 396575 - [compiler][resources] Incorrect Errors/Warnings check for potential resource leak when surrounding with try-catch
*	Jesper S Moller <jesper@selskabet.org> - Contributions for
*	bug 378674 - "The method can be declared as static" is wrong
*	Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it extends the outer class
**********/

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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/BlockScope.java
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* bug 186342 - [compiler][null] Using annotations for null checking
* bug 367203 - [compiler][null] detect assigning null to nonnull argument
* bug 365519 - editorial cleanup after bug 186342 and bug 365387
* bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
* bug 365531 - [compiler][null] investigate alternative strategy for internally
 encoding nullness defaults
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this
location
* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
* Bug 443347 - [1.8][null]
 @NonNullByDefault should not affect constructor arguments of an anonymous instantiation
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
* Bug 456584 - [1.8][null] Bogus warning for return type variable's @NonNull annotation being 'redundant'
* Bug 471611 - Error on hover on call to generic method with null annotation
* Jesper Steen Moller - Contributions for
* Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
**********/

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*     Stephan Herrmann - Contributions for
*         bug 186342 - [compiler][null] Using annotations for null checking
*        bug 387612 - Unreachable catch block...exception is never thrown from the try
*        bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
```

* bug 401456 - Code compiles from javac/intellij, but fails from eclipse
* bug 401271 - StackOverflowError
when searching for a methods references
* bug 405706 - Eclipse compiler fails to give compiler error when return type is a inferred generic
* Bug 408441 - Type mismatch using Arrays.asList with 3 or more implementations of an interface with the interface type as the last parameter
* Bug 413958 - Function override returning inherited Generic Type
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations
* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
* Bug 424415 - [1.8][compiler]
Eventual resolution of ReferenceExpression is not seen to be happening.
* Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
* Bug 426589 - [1.8][compiler] Compiler error with generic method/constructor invocation as vargs argument
* Bug 426590 - [1.8][compiler] Compiler error with tenary operator
* Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
* Bug 426998 - [1.8][compiler] method(java.lang.Class, java.lang.String) not applicable for the arguments (java.lang.Class, java.lang.String)
* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
* Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method
* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
* Bug
427728 - [1.8] Type Inference rejects calls requiring boxing/unboxing
* Bug 427218 - [1.8][compiler] Verify error varargs + inference
* Bug 426836 - [1.8] special handling for return type in references to method getClass()?
* Bug 427628 - [1.8] regression : The method * is ambiguous for the type *
* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
* Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type Bindings
* Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location
* Bug 428811 - [1.8][compiler] Type witness unnecessarily required
* Bug 429424 - [1.8][inference] Problem inferring type of method's parameter
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner
class
* Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
* Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
* Bug 452194 - Code no longer compiles in 4.4.1, but with confusing error
* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
* Bug 456236 - [1.8][null] Cannot infer type when constructor argument is annotated with @Nullable
* Bug 437072 - [compiler][null] Null analysis emits possibly incorrect warning for new int[][] despite @NonNullByDefault
* Bug 462083 - [1.8][inference] Java 8 generic return type mismatch with interface involving type parameter.

```
*     Jesper S Moller - Contributions for
*       Bug 378674 - "The method can be declared as static" is wrong
*        Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*     Andy Clement (GoPivotal, Inc)
 aclement@gopivotal.com - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*     Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for
*                         Bug 559618 - No compiler warning for import from same package
*                         Bug 560630 - No warning on unused import on class from same package
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/Scope.java
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* Contributors:
*    wharley@bea.com - initial API and implementation
*    IBM Corporation - fix for 342598
*    IBM Corporation - Java 8 support
*    het@google.com - Bug 427943 - The method
org.eclipse.jdt.internal.compiler.apt.model.Factory.getPrimitiveType does not throw IllegalArgumentException
*******************************************************************************/
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/model/Factory.java
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*     Stephan Herrmann - Contributions for
*       bug 335093 - [compiler][null] minimal hook for future null annotation support
*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365983 - [compiler][null] AIOOB with null annotation analysis and varargs
*       bug 368546 - [compiler][resource] Avoid remaining false positives found when
```

compiling the Eclipse SDK
* bug 370930 - NonNull annotation not considered for enhanced for loops
* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
* bug 331649 - [compiler][null] consider null annotations for fields
* bug 383368 - [compiler][null] syntactic null analysis for field references
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
* Bug 417758 - [1.8][null] Null safety compromise
during array creation.
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
* Bug 418537 - [1.8][null] Fix null type annotation analysis for poly conditional expressions
* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
* Bug 455723 - Nonnull argument not correctly inferred in loop
* Andy Clement - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
**********/

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/Statement.java
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-
jar/org/eclipse/jdt/internal/compiler/lookup/BinaryModuleBinding.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-
jar/org/eclipse/jdt/internal/compiler/lookup/SplitPackageBinding.java
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*        bug 349326 - [1.7] new warning for missing try-with-resources
*        bug 186342 - [compiler][null] Using annotations for null checking
*        bug 364890 - BinaryTypeBinding should use char constants from Util
*        bug 365387 - [compiler][null] bug 186342: Issues to follow up post review and verification.
*        bug 358903 - Filter practically unimportant resource leak warnings
*        bug
 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*        bug 388800 - [1.8][compiler] detect default methods in class files
*        bug 388281 - [compiler][null] inheritance of null annotations as an option
*        bug 331649 - [compiler][null] consider null annotations for fields
*        bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*        Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*        Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*        Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*        Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*        Bug 392245 - [1.8][compiler][null] Define whether
 / how @NonNullByDefault applies to TYPE_USE locations
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*        Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
*        Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*        Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
*        Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
*        Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*        Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*        Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*        Bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)
*        Bug 454182 - Internal compiler error when using
```

1.8 compliance for simple project
* Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
* Bug 447661 - [1.8][null] Incorrect 'expression needs unchecked conversion' warning
* Jesper Steen Moller - Contributions for
* Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
* Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
* Sebastian Zarnekow - Contributions for
* bug 544921 - [performance] Poor performance with large source files
* Alexander Lehmann - Contributions for
* bug 566258 - Intermittent NPE in APT RoundDispatcher
**********/

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/BinaryTypeBinding.java
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* Stephan Herrmann - Contributions for
* bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
* bug 401030 - [1.8][null] Null analysis support for lambda methods.
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
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in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/LocalTypeBinding.java
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*        bug 349326 - [1.7] new warning for missing try-with-resources
*        bug 370930 - NonNull annotation not considered for enhanced for loops
*        bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*        bug 393719 - [compiler] inconsistent warnings
 on iteration variables
*        Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*        Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*        Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
*     Jesper S Moller -  Contribution for
*        bug 401853 - Eclipse Java compiler creates invalid bytecode (java.lang.VerifyError)
*                          bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*******************************************************************************/
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Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ForeachStatement.java
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* Contributors:
*    tyeung@bea.com - initial API and implementation
*    olivier_thomann@ca.ibm.com - add hashCode() and equals(..) methods
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/ClassSignature.java

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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/SimpleSetOfCharArray.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveryScannerData.java

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* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
* Bug 422796 - [compiler][null] boxed boolean reported as potentially null after
 null test in lazy disjunction
**********/

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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/AND_AND_Expression.java
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*        Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*       Bug 392099
 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 412076 - [compiler] @NonNullByDefault doesn't work for varargs parameter when in generic interface
*       Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument
annotations
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 416175 - [1.8][compiler][null] NPE with a code snippet that used null annotations on wildcards
*       Bug 416174 - [1.8][compiler][null] Bogus name clash error with null annotations
*       Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug 400874 - [1.8][compiler]
 Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*       Bug 425278 - [1.8][compiler] Suspect error: The target type of this expression is not a well formed parameterized
type due to bound(s) mismatch
*       Bug 425798 - [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType
*       Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
*       Bug 426563 - [1.8] AIOOBE when method with error invoked with lambda expression as argument
*       Bug 426792 - [1.8][inference][impl] generify new type inference engine
*       Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
*       Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*       Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
 *       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.
*       Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*       Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
*       Bug 390064 - [compiler][resource] Resource leak warning missing when extending parameterized class
*     Jesper S Møller  - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*       Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*******************************************************************************/
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Found in path(s):
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*     Stephan Herrmann - Contributions for
*          bug 332637 - Dead Code detection removing code that isn't dead
*          bug 358827 - [1.7] exception analysis for t-w-r spoils null analysis
*          bug 349326 - [1.7] new warning for missing try-with-resources
*          bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
*       bug 358903 - Filter practically unimportant resource
 leak warnings
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 401088 - [compiler][null] Wrong warning "Redundant null check" inside nested try statement
*       bug 401092 - [compiler][null] Wrong warning "Redundant null check" in outer catch of nested try
*       bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*       bug 384380 - False positive on a ?? Potential null pointer access ?? after a continue
*       Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
*       Bug 371614 - [compiler][resource] Wrong "resource leak" problem on return/throw inside while loop
*       Bug 444964 - [1.7+][resource] False resource leak warning (try-with-resources for ByteArrayOutputStream -
return inside for loop)
*     Jesper Steen Moller -
 Contributions for
*       bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                    Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/TryStatement.java

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* Contributors:
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*     Carmi Grushko - Bug 465048 - Binding is null for class literals in synchronized blocks
*******************************************************************************/
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*     Nick Teryaev - fix for bug (https://bugs.eclipse.org/bugs/show_bug.cgi?id=40752)
*     Stephan Herrmann - Contributions for
*       bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       bug
 383368 - [compiler][null] syntactic null analysis for field references
*       bug 401017 - [compiler][null] casted reference to @Nullable field lacks a warning
*       bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 427438 - [1.8][compiler] NPE at
```

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*	Bug 430150 - [1.8][null] stricter checking against type variables
*	Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style
null annotations
*	Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*	Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*		Bug 415541 - [1.8][compiler] Type annotations in the body of static initializer get dropped
**********/

Found in path(s):
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*	Stephan Herrmann - Contributions for
*	bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*	bug 349326 - [1.7] new warning for missing try-with-resources
*	bug 186342 - [compiler][null] Using annotations for null checking
*	bug 358903 - Filter practically unimportant resource leak warnings
*	bug
370639 - [compiler][resource] restore the default for resource leak warnings
*	bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*	bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*	bug 379784 - [compiler] "Method can be static" is not getting reported
*	bug 379834 - Wrong "method can be static" in presence of qualified super and different staticness of nested super class.
*	bug 388281 - [compiler][null] inheritance of null annotations as an option
*	bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*	bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*	bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
*	bug 331649 - [compiler][null] consider null annotations for fields
*	bug 383368 - [compiler][null] syntactic null
analysis for field references
*	bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*	bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax

*	bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*	bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*	bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*	Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*	Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*	Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly
*	Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*	Bug 417295 - [1.8[[null] Massage type annotated null analysis
 to gel well with deep encoded type bindings.
*	Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*	Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*	Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*	Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*	Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*	Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*	Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
*	Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
*	Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*	Bug 427438 - [1.8][compiler]
 NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*	Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
*	Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*	Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
*	Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
*	Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*	Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
*	Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*	Bug 472618 - [compiler][null] assertNotNull vs. Assert.assertNotNull
*	Bug 470958 - [1.8] Unable to convert lambda
*	Bug 410218 - Optional warning
 for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
*	Jesper S Moller - Contributions for
*	Bug 378674 - "The method can be declared as static" is wrong
*	Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*	Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
*	Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method
**********/

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/MessageSend.java
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*       bug 331649 - [compiler][null] consider null annotations for fields
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
*     Jesper S Moller - Contributions for
*      bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfModule.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredRequiresStatement.java
*
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ModuleStatement.java
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*     Tom Tromey - Contribution for bug 125961
*     Tom Tromey - Contribution for bug 159641
*     Benjamin Muskalla - Contribution for bug 239066
*     Stephan Herrmann  - Contributions for
*          bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
*          bug 295551 - Add option to automatically promote all warnings to errors
*          bug 359721 - [options] add command line option
 for new warning token "resource"
*       bug 365208 - [compiler][batch] command line options for annotation based null analysis
*       bug 374605 - Unreasonable warning for enum-based switch statements
*       bug 375366 - ECJ ignores unusedParameterIncludeDocCommentReference unless enableJavadoc option is set
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
*       Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*       Bug 440687 - [compiler][batch][null] improve command line option for external annotations
*       Bug 408815 - [batch][null] Add CLI option for
COMPILER_PB_SYNTACTIC_NULL_ANALYSIS_FOR_FIELDS
*     Jesper S Moller   - Contributions for
*       bug 407297 - [1.8][compiler] Control generation of parameter names by option
*    Mat Booth - Contribution for bug 405176
*    Frits Jalvingh -
 fix for bug 533830.
*******************************************************************************/
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* bug 186342 - [compiler][null] Using annotations for null checking
* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 417295 - [1.8[[null] Massage type annotated
null analysis to gel well with deep encoded type bindings.
* Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
**********/

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*        Bug 440474 - [null] textual encoding of external null annotations
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*           bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment
*        bug 186342 - [compiler][null] Using annotations for null checking
*        bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*        bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        bug
 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*        bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*        Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*        Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*        Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*        Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*        Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations
*        Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*        Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*        Bug 416190 - [1.8][null]
 detect incompatible overrides due to null type annotations
*        Bug 424624 - [1.8][null] if a static-object with annotation @NonNull is used, a warning is shown
*        Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
```

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*       Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
*       Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)
*       Bug 457079 - Regression: type inference
*       Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*       Bug 455180 - IllegalStateException in AnnotatableTypeSystem.getRawType
*       Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
 ********************************************************************************/
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/LookupEnvironment.java
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*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*         Bug 473178
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*       bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
 checking
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/AssertStatement.java
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-

jar/org/eclipse/jdt/internal/compiler/apt/model/WildcardTypeImpl.java
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*        bug 186342 - [compiler][null] Using annotations for null checking
*        bug 365519 - editorial cleanup after bug 186342 and bug 365387
*        Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
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Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/MemberValuePair.java
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*     Erling Ellingsen -  patch for bug 125570
*     Stephan Herrmann - Contribution for
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*        Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
*     Sebastian Zarnekow - Contribution for
*        Bug 544921 - [performance] Poor performance with large source files
*******************************************************************************/
```

Found

in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/CompilationUnitScope.java
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* Contributors:
*     IBM Corporation - initial API and implementation
*     Luiz-Otavio Zorzella <zorzella at gmail dot com> - Improve CamelCase algorithm
*     Gábor Kövesdán - Contribution for Bug 350000 - [content assist] Include non-prefix matches in auto-complete suggestions
*     Stefan Xenos <sxenos@gmail.com> (Google) - Bug 501283 - Lots of hash collisions during indexing
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/core/compiler/CharOperation.java
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*     Stephan Herrmann - contributions for
*          bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment
*          bug 186342 - [compiler][null] Using annotations for null checking
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```

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/Compiler.java

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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/SortedCompoundNameVector.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/SortedSimpleNameVector.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/SortedCharArrays.java
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* Stephan Herrmann - Contributions for
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
* bug 331649 - [compiler][null] consider null annotations for fields
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415043 - [1.8][null] Follow-up re null type annotations
after bug 392099
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location
* Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE_USE locations
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
* Bug 469584 - ClassCastException in Annotation.detectStandardAnnotation (320)
* Andy Clement (GoPivotal,
Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
* Bug 409517 - [1.8][compiler] Type annotation problems on more elaborate array references
* Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped
* Bug 414384 - [1.8] type annotation on abbreviated inner class is not marked as inner type
* Jesper S Moller <jesper@selskabet.org> - Contributions for
* Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
* Bug 412151 - [1.8][compiler] Check repeating annotation's collection type
* Bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
* Bug 419209 - [1.8] Repeating container annotations
should be rejected in the presence of annotation it contains
**********/

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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-
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* Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 407191 - [1.8] Binary access support for type annotations
**********/

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IBinaryMethod.java
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/core/compiler/CompilationProgress.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredAnnotation.java
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/ISourceModule.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IBinaryModule.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IUpdatableModule.java
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Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/FieldInfoWithAnnotation.java
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```
*       Bug 407297: [1.8][compiler] Control generation of parameter names by option
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/tool/Options.java
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*       bug 407191 - [1.8] Binary access support for type annotations
*     Stephan Herrmann - Contribution for
*       Bug 440474 - [null] textual encoding of external null annotations
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IBinaryType.java
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*       Bug 365992 - [builder] [null] Change of nullness for a parameter doesn't trigger a build for the files that call the method
*       Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*       Bug 440687 - [compiler][batch][null] improve command line option for external annotations
```

```
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*
              bug 407191 - [1.8] Binary access support for type annotations
*******************************************************************************/
```

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*     Stephan Herrmann - Contribution for
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code generator
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/IntersectionCastTypeReference.java
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*     Stephan Herrmann - Contribution for
*       Bug 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda
```

```
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*    Kenneth Olson - Contribution for bug 188796 - [jsr199] Using JSR199 to extend ECJ
*    Dennis Hendriks - Contribution for bug 188796 - [jsr199] Using JSR199 to extend ECJ
*    Frits Jalvingh  - fix for bug 533830.
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jar/org/eclipse/jdt/internal/compiler/tool/EclipseCompilerImpl.java
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*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*       Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
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*       Bug 440687 - [compiler][batch][null] improve command line option for external annotations
*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*         Bug 473178
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*     Karen Moore - fix for https://bugs.eclipse.org/bugs/show_bug.cgi?id=207411
*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*          bug 185682 - Increment/decrement operators mark local variables as read
*          bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365519 - editorial cleanup after
 bug 186342 and bug 365387
*       bug 374605 - Unreasonable warning for enum-based switch statements
*       bug 384870 - [compiler] @Deprecated annotation not detected if preceded by other annotation
*       bug 393719 - [compiler] inconsistent warnings on iteration variables
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 424742 - [1.8] NPE in LambdaExpression.isCompatibleWith
*       Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*       Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*       Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
```

```
*       Bug 426366
 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
*       Bug 427282 - [1.8][compiler] AIOOB (-1) at
org.eclipse.jdt.internal.compiler.ClassFile.traverse(ClassFile.java:6209)
*       Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
*       Bug 432348 - [1.8] Internal compiler error (NPE) after upgrade to 1.8
*       Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables
*       Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*       Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
*       Bug 446442 - [1.8] merge null annotations from super methods
*       Bug 437072 - [compiler][null] Null analysis emits
 possibly incorrect warning for new int[][] despite @NonNullByDefault
*     Jesper S Moller - Contributions for
*       bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*       bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*       bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*       bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
*       bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
*     Till Brychcy - Contributions for
*               bug 467094 - [1.8][null] TYPE_USE NullAnnotations of array contents are applied to field.
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ModuleDeclaration.java

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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/model/NameImpl.java
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* Contributors:
*     IBM Corporation - initial API and implementation
*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*       bug 185682 - Increment/decrement operators mark local variables as read
*       bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 392384 - [1.8][compiler][null] Restore nullness
 info from type annotations in class files
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*       Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/Reference.java
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/AbstractCommentParser.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/AnnotationBinding.java
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* Contributors:
*     IBM Corporation - initial API and implementation
*     Stephan Herrmann - Contribution for
*       Bug 432977 - [1.8][null] Incorrect 'type is not visible' compiler error
*       Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
*******************************************************************************/
/* Taking the binding of QTR as an example, there could be different annotatable components, but we come in a
with a single binding, e.g:

 @T Z;                          type => Z  annotations => [[@T]]
     @T Y.@T Z                        type => Z  annotations => [[@T][@T]]
     @T X.@T Y.@T Z                       type => Z  annotations => [[@T][@T][@T]]
```

java.lang.@T X.@T Y.@T Z type => Z annotations => [[][][@T][@T][@T]]
in all these cases the incoming type binding is for Z, but annotations are for different levels. We need to align their layout for proper attribution.
*/

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/AnnotatableTypeSystem.java
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/CatchParameterBinding.java
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* Contributors:
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* Jesper S Moller - Contributions for
* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
* Stephan Herrmann - Contribution for
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 423504 - [1.8] Implement "18.5.3

Functional Interface Parameterization Inference"
* Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType
* Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression
* Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
* Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
* Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
* Bug 446442 - [1.8] merge null annotations from super methods
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
**********/

Found
in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-
jar/org/eclipse/jdt/internal/compiler/ast/FunctionalExpression.java
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-
jar/org/eclipse/jdt/internal/compiler/util/ObjectVector.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-
jar/org/eclipse/jdt/internal/compiler/util/HashSetOfInt.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-
jar/org/eclipse/jdt/core/compiler/InvalidInputException.java
*
/opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-
jar/org/eclipse/jdt/internal/compiler/codegen/CharArrayCache.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-
jar/org/eclipse/jdt/internal/compiler/codegen/VerificationTypeInfo.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-
jar/org/eclipse/jdt/internal/compiler/codegen/BranchLabel.java

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*     Stephan Herrmann  - Contribution for bug 295551
*     Jesper S Moller   - Contributions for
*         Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*     Frits Jalvingh    - contributions for bug 533830.
*     Red Hat Inc.      - add module-info Javadoc support
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/CompilationUnitDeclaration.java
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*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365519 - editorial cleanup after bug 186342 and bug 365387
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 435570 - [1.8][null] @NonNullByDefault
 illegally tries to affect "throws E"
*       Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this
location
*       Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
```

*	Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*	Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
**********/

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/Argument.java
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```
*     IBM Corporation - initial API and implementation
*     Stephan Herrmann - Contribution for
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
*       Bug 441797 - [1.8] synchronize type annotations on capture and its wildcard
*       Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker
 hint from applicability analysis
*       Bug 456924 - StackOverflowError during compilation
*       Bug 462790 - [null] NPE in Expression.computeConversion()
*     Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*       Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/CaptureBinding.java
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*     Stephan Herrmann - Contribution for
*       Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
*       Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability
analysis
*       Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
*     Till Brychcy - Contribution for
*       Bug 473713
 - [1.8][null] Type mismatch: cannot convert from @NonNull A1 to @NonNull A1
*******************************************************************************/
/* Cache the derived type, tagging it as a derivative of both the key type and the naked type.
    E.g: int @NonNull [] would be tagged as a derived type of both int and int []. This is not
    needed for correctness, but for annotated object reuse. We provide two alternate ways to
    annotate a type:

    Taking parameterized types as an example, a call to getParamaterizedType can be made with annotations
    to create @NonNull List<@NonNull String> in one stroke. Or a parameterized type can be created first
    and then annotated via getAnnotatedType. In the former case, the tables get looked up with List as
    the key, in the latter with List<String> as the key.
```

```
    Binary vs source, substitutions, annotation re-attribution from SE7 locations etc trigger these
    alternate code paths. Unless care is exercised,
 we will end up with duplicate objects (that share
    the same TypeBinding.id => correctness is not an issue, but memory wastage is)
  */
```

Found in path(s):
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*     Stephan Herrmann - Contribution for
*       Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*       Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression
*       Bug 426542 - [1.8] Most specific method not picked when one method has intersection type as type parameter
*       Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*     Andy
 Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*     Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*                       Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/IntersectionTypeBinding18.java
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* Stephan Herrmann - Contributions for
* bug 292478 - Report potentially null across variable assignment
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
* bug 331649 - [compiler][null] consider null annotations for fields
* bug 383368 - [compiler][null] syntactic null analysis for field
 references
* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 426792 - [1.8][inference][impl] generify new type inference engine
* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
* Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 426996 - [1.8][inference]
 try to avoid method Expression.unresolve()?
* Bug 428274 - [1.8] [compiler] Cannot cast from Number to double
* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
* Bug 473178
**********/

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jar/org/eclipse/jdt/internal/compiler/ast/Expression.java
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*     Stephan Herrmann - Contributions for
*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365519 - editorial cleanup after bug 186342 and bug 365387
*       bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*       bug 382353 - [1.8][compiler] Implementation property modifiers should
 be accepted on default methods.
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this
location
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*     Jesper S Moller <jesper@selskabet.org> - Contributions for
*       bug 378674 - "The method can be declared as static" is wrong
*******************************************************************************/
```

Found in path(s):
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*     Genady Beriozkin - added support for reporting assignment with no effect
*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*       bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*       bug 292478 - Report potentially null across variable assignment
*         bug 335093 - [compiler][null] minimal hook for future null annotation support
*         bug 349326 - [1.7] new warning for missing
 try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 358903 - Filter practically unimportant resource leak warnings
*       bug 370639 - [compiler][resource] restore the default for resource leak warnings
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
```

```
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 402993 - [null] Follow up of bug 401088: Missing
 warning about redundant null check
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*******************************************************************************/
```

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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/Assignment.java
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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*       bug 328281 - visibility leaks not detected when analyzing unused field in private class
*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365836 - [compiler][null] Incomplete propagation of null defaults.
*       bug 365519 - editorial cleanup after bug 186342
 and bug 365387
*       bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*       bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*       bug 366063 - Compiler should not add synthetic @NonNull annotations
*       bug 384663 - Package Based Annotation Compilation Error in JDT 3.8/4.2 (works in 3.7.2)
*       bug 386356 - Type mismatch error with annotations and generics
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       bug 331649 - [compiler][null] consider null annotations for fields
```

```
*       bug 380896 - [compiler][null] Enum constants not recognised as being NonNull.
*       bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
 *       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 416172 - [1.8][compiler][null] null type annotation not evaluated on method return type
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 426048 - [1.8] NPE in TypeVariableBinding.internalBoundCheck when parentheses are not balanced
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 432348 - [1.8] Internal compiler error (NPE) after upgrade to 1.8
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*       Bug 441693 - [1.8][null]
 Bogus warning for type argument annotated with @NonNull
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
*       Bug 461250 - ArrayIndexOutOfBoundsException in SourceTypeBinding.fields
*       Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*      Jesper S Moller <jesper@selskabet.org> -  Contributions for
*       Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*      Till Brychcy - Contributions for
*           bug 415269 - NonNullByDefault is not always inherited to nested classes
*      Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                      Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*      Sebastian Zarnekow - Contributions
 for
*       bug 544921 - [performance] Poor performance with large source files
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/SourceTypeBinding.java
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```

*   Jesper S Moller - Contributions for
*   Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*   Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
*   Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
*   Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com
 - Contributions for
*   Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*   Bug 439889 - [1.8][compiler] [lambda] Deserializing lambda fails with IllegalArgumentException: "Invalid lambda deserialization"
**********/

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/ConstantPool.java
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* Contributors:
*   wharley@bea.com - initial API and implementation
*   (originally in org.eclipse.jdt.apt.core)
*   IBM Corporation - Bug 513790
**********/

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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/util/ManyToMany.java
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*   Stephan Herrmann - Contributions for
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 370639 - [compiler][resource] restore the default for resource leak warnings
*   bug 265744 - Enum switch should warn about missing default
*   bug 374605 - Unreasonable warning for enum-based switch statements
*   bug 381443
 - [compiler][null] Allow parameter widening from @NonNull to unannotated
*   Bug 441208 - [1.8][null]SuppressWarnings("null") does not suppress / marked Unnecessary
*   Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
***/

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/IrritantSet.java
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```
*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*       bug 185682 - Increment/decrement operators mark local variables as read
*       bug 331649 - [compiler][null] consider null annotations for fields
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 447088 - [null] @Nullable on fully qualified field type is ignored
*       Bug 435805 - [1.8][compiler][null]
 Java 8 compiler does not recognize declaration style null annotations
*       Bug 458396 - NPE in CodeStream.invoke()
*       Bug 446217 - [null] @NonNullByDefault in package-info.java causes bogus "null type safety" warning
*     Till Brychcy - Contribution for
*             bug 467094 - [1.8][null] TYPE_USE NullAnnotations of array contents are applied to field.
*******************************************************************************/
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Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/FieldBinding.java
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*     Jesper S Moller - Contributions for
*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*       bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*       Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
*     Stephan Herrmann - Contribution for
*       bug 401030 - [1.8][null] Null analysis support for lambda methods.
*       Bug 392099
 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*       Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType
*       Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression
*       Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*       Bug 425798 - [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType
*       Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
*       Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
*       Bug 426563 - [1.8] AIOOBE when method with error
```

invoked with lambda expression as argument
*	Bug 420525 - [1.8] [compiler] Incorrect error "The type Integer does not define sum(Object, Object) that is applicable here"
*	Bug 427438 - [1.8][compiler] NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*	Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
*	Bug 428786 - [1.8][compiler] Inference needs to compute the "ground target type" when reducing a lambda compatibility constraint
*	Bug 428980 - [1.8][null] simple expression as lambda body doesn't leverage null annotation on argument
*	Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
*	Bug 432110 - [1.8][compiler] nested lambda type incorrectly inferred vs javac
*	Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*	Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*	Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*	Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*	Bug 455723 - Nonnull argument not correctly inferred in loop
*	Bug 463728 - [1.8][compiler][inference] Ternary operator in lambda derives wrong type
*	Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*	Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
**********/

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/LambdaExpression.java
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*	bug 186342 - [compiler][null] Using annotations for null checking
*	bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*	Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*	bug 413958 - Function override returning inherited Generic Type
*	Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*	Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding

```
*       Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 418743 - [1.8][null] contradictory annotations on invocation of generic method not reported
*       Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
*       Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
*       Bug 446442 - [1.8] merge null annotations from super methods
*       Bug 457079 - Regression: type
 inference
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Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedGenericMethodBinding.java
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*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ElementValuePair.java
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*        bug 331649 - [compiler][null] consider null annotations for fields
*        Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        Bug 458396 - NPE in CodeStream.invoke()
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/VariableBinding.java
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*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*          Bug 473178
*     IBM Corporation - Bug fixes
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* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
**********/

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/UnaryExpression.java
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* Contributors:
* tyeung@bea.com - initial API and implementation
* olivier_thomann@ca.ibm.com - add hashCode() and equals(..) methods
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationInfo.java
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* Bug 360328 - [compiler][null] detect null problems in nested code (local class inside a loop)

```
*       Bug 388630 - @NonNull diagnostics at line 0
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug 424727 - [compiler][null] NullPointerException
 in nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)
*       Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
*     Keigo Imai - Contribution for  bug 388903 - Cannot extend inner class as an anonymous class when it extends
the outer class
 *    Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for
*                       Bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
when using MethodSource
*                       Bug 546084 - Using Junit 5s MethodSource leads to ClassCastException
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*     Stephan Herrmann - Contributions for
*       bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 415543 - [1.8][compiler] Incorrect bound index in RuntimeInvisibleTypeAnnotations attribute
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* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 415850 - [1.8] Ensure RunJDTCoreTests
can cope with null annotations enabled
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
* Bug 434600 - Incorrect null analysis error reporting on type parameters
* Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 437072 - [compiler][null] Null analysis
emits possibly incorrect warning for new int[][] despite @NonNullByDefault
* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code generator
* Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code generator
* Jesper S Møller <jesper@selskabet.org> - Contributions for
* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
* bug 529556 - [18.3] Add content assist support for 'var' as a type
*
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*       bug 185682 - Increment/decrement operators mark local variables as read
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       Bug 412203 - [compiler] Internal compiler error: java.lang.IllegalArgumentException: info cannot be null
*       Bug 400874 - [1.8][compiler]
 Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 458396 - NPE in CodeStream.invoke()
*     Jesper S Moller - Contributions for
*       Bug 378674 - "The method can be declared as static" is wrong
*     Robert Roth <robert.roth.off@gmail.com> - Contributions for
*       Bug 361039 - NPE in FieldReference.optimizedBooleanConstant
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*       Bug 407191 - [1.8] Binary access support for type annotations
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*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*        bug 383368 - [compiler][null] syntactic null analysis for field references
*        bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*     Jesper S Moller - Contributions for
*        bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
 *******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/CompoundAssignment.java
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*     Stephan Herrmann - Contributions for
*        bug 186342 - [compiler][null] Using annotations for null checking
*        bug 365519 - editorial cleanup after bug 186342 and bug 365387
*        bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*        bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*        bug 385626 - @NonNull fails across
 loop boundaries
*        bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*        bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
```

checking
* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
* Bug 455723 - Nonnull argument not correctly inferred in loop
* Jesper S Moller - Contributions for
* bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
**********/

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/FinallyFlowContext.java
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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
* bug 185682 - Increment/decrement operators mark local variables as read
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
* bug 331649 - [compiler][null] consider
null annotations for fields
* Bug 466308 - [hovering] Javadoc header for parameter is wrong with annotation-based null analysis
* Jesper S Møller <jesper@selskabet.org> - Contributions for
* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*
**********/

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/LocalVariableBinding.java
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* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
* Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
**********/

Found
 in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/ExceptionHandlingFlowContext.java
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* bug 384380 - False positive on a "Potential null pointer access" after a continue
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
**********/

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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/diagnose/LexStream.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/NormalAnnotation.java
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```
*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
 *       Bug 429403 - [1.8][null] null mismatch from type arguments is not reported at field initializer
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 458396 - NPE in CodeStream.invoke()
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*       Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
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Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/FieldDeclaration.java
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```

```
*          bug 133125 - [compiler][null] need to report the null status of expressions and analyze them simultaneously
*          bug 292478 - Report potentially null across variable assignment
*       bug 324178 - [null] ConditionalExpression.nullStatus(..) doesn't take into account the analysis of condition itself
*       bug 354554 - [null] conditional with redundant condition
 yields weak error message
*          bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 426078 - [1.8] VerifyError when conditional expression passed as an argument
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
 *       Bug 418537 - [1.8][null] Fix null type annotation analysis for poly conditional expressions
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
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Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ConditionalExpression.java
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*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/LabelFlowContext.java
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*           Bug 407191 - [1.8] Binary access support for type annotations
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*          bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*          bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 403147 - [compiler][null] FUP of bug 400761:
 consolidate interaction between unboxing, NPE, and deferred checking
*******************************************************************************/
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* Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped
* Stephan Herrmann - Contribution for
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 429958
 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 440462 - [null][compiler]NPE in EJC for erroneous null annotations
* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/InferenceSubstitution.java
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/MethodInfoWithAnnotations.java
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*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
*   Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
*   Bug 409517 - [1.8][compiler] Type annotation problems on more elaborate array references
*
                Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
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* Jesper S Moller - Contributions for
* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
* Bug 384687 - [1.8] Wildcard type arguments should be rejected for lambda and reference expressions
* Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
* Stephan Herrmann - Contribution for
* bug 402028 - [1.8][compiler] null analysis for reference expressions
* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super via I.super.m() syntax
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
* Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to Files::walk
* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
* Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
* Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method
* Bug 427438 - [1.8][compiler] NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 428264 - [1.8] method reference of generic class causes problems (wrong inference result or NPE)
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 426537 - [1.8][inference] Eclipse compiler thinks I<? super J> is compatible with I<J<?>> - raw type J involved
* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
* Bug 435689 - [1.8][inference] Type inference not occurring with lambda expression and method reference

*	Bug 438383 - [1.8][null] Bogus warning: Null type safety at method return type
*	Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
*	Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
*	Bug 438945 - [1.8] NullPointerException
InferenceContext18.checkExpression in java 8 with generics, primitives, and overloading
*	Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*	Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
*	Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
*	Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*	Bug 470542 - NullPointerException in ReferenceExpression.isPotentiallyCompatibleWith (962)
*	Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contribution for
*	Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
**********/

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ReferenceExpression.java
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/ICompilationUnit.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ClassLiteralAccess.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredField.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/CompilationResult.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredUnit.java

* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathLocation.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredElement.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/INameEnvironment.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/NameEnvironmentAnswer.java
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*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*         Bug 473178
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/LongLiteral.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/InitializationFlowContext.java
*
 /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/NumberLiteral.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/FloatLiteral.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/LongLiteralMinValue.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/IntLiteral.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/IntLiteralMinValue.java
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*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 292478 - Report potentially null across variable assignment
*   bug 335093 - [compiler][null] minimal hook for future null annotation support
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
 *   bug 358903 - Filter practically unimportant resource leak warnings
*   bug 370639 - [compiler][resource] restore the default for resource leak warnings
*   bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*   bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*   bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 427438 - [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
 * Bug 430150 - [1.8][null] stricter checking against type variables
* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
* Jesper S Moller - Contributions for
* Bug 378674 - "The method can be declared as static" is wrong
* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
* Bug 529556 - [18.3] Add content assist support for 'var' as a type
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
* Bug 426616 - [1.8][compiler] Type Annotations, multiple problems
**********/

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/LocalDeclaration.java
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* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Stephan Herrmann - Contribution for
* Bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
**********/

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/AnnotationTargetTypeConstants.java
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* Bug 378674 - "The method can be declared as static" is wrong
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*	Stephan Herrmann - Contributions for
*	bug 342671 - ClassCastException: org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to org.eclipse.jdt.internal.compiler.lookup.ArrayBinding
*	Bug 420894 - ClassCastException in DefaultBindingResolver.resolveType(Type)
*	bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*	Bug 415043 - [1.8][null] Follow-up re null type
 annotations after bug 392099
*	Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*	Bug 434600 - Incorrect null analysis error reporting on type parameters
*	Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*	Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
*	Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*	Andy Clement - Contributions for
*	Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
**********/

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*	Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
*	Jesper S Moller -. Contribution for bug 400830: [1.8][formatter] Code formatter for Java 8
**********/

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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/Scanner.java
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/DefaultProblemFactory.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/IErrorHandlingPolicy.java
*
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/core/JDTCompilerAdapter.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/ReferenceContext.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/DefaultErrorHandlingPolicies.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/CompilerStats.java
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* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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*           bug 349326 - [1.7] new warning for missing try-with-resources
*           bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 358903 - Filter practically unimportant resource leak warnings
*       bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject
 into account
*       bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*       Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*     Jesper S Moller <jesper@selskabet.org> -  Contributions for
```

```
*       Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*     Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
*                         bug 386692 - Missing "unused" warning on "autowired" fields
*     Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
*                         bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
when using MethodSource
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*          bug 336428 - [compiler][null] bogus warning "redundant null check" in condition of do {} while() loop
*       bug 186342 - [compiler][null] Using annotations for null checking
```

*	bug 365519 - editorial cleanup after bug 186342 and bug 365387
*	bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*	bug 365859 - [compiler][null]
distinguish warnings based on flow analysis vs. null annotations
*	bug 385626 - @NonNull fails across loop boundaries
*	bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*	bug 376263 - Bogus "Potential null pointer access" warning
*	bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*	bug 406384 - Internal error with I20130413
*	Bug 415413 - [compiler][null] NullpointerException in Null Analysis caused by interaction of LoopingFlowContext and FinallyFlowContext
*	Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*	Bug 455557 - [jdt] NPE LoopingFlowContext.recordNullReference
*	Bug 455723 - Nonnull argument not correctly inferred in loop
*	Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
*	Bug 421035 - [resource]
False alarm of resource leak warning when casting a closeable in its assignment
*	Jesper S Moller - contributions for
*	bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/LoopingFlowContext.java
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*         NonStaticAccessToStaticField
*         NonStaticAccessToStaticMethod
*         Task
*         ExpressionShouldBeAVariable
*         AssignmentHasNoEffect
*     IBM Corporation - added the following constants
*         TooManySyntheticArgumentSlots
*         TooManyArrayDimensions
*         TooManyBytesForStringConstant
*         TooManyMethods
*         TooManyFields
*          NonBlankFinalLocalAssignment
*         ObjectCannotHaveSuperTypes
*         MissingSemiColon
*         InvalidParenthesizedExpression
*         EnclosingInstanceInConstructorCall
*         BytecodeExceeds64KLimitForConstructor
*         IncompatibleReturnTypeForNonInheritedInterfaceMethod
*         UnusedPrivateMethod
*         UnusedPrivateConstructor
*         UnusedPrivateType
*         UnusedPrivateField
*         IncompatibleExceptionInThrowsClauseForNonInheritedInterfaceMethod
*         InvalidExplicitConstructorCall
*     IBM Corporation - added the following constants
*         PossibleAccidentalBooleanAssignment
*         SuperfluousSemicolon
*         IndirectAccessToStaticField
*         IndirectAccessToStaticMethod
*         IndirectAccessToStaticType
*         BooleanMethodThrowingException
*         UnnecessaryCast
*         UnnecessaryArgumentCast
```

```
*         UnnecessaryInstanceof
*
  FinallyMustCompleteNormally
*         UnusedMethodDeclaredThrownException
*         UnusedConstructorDeclaredThrownException
*         InvalidCatchBlockSequence
*         UnqualifiedFieldAccess
*     IBM Corporation - added the following constants
*         Javadoc
*         JavadocUnexpectedTag
*         JavadocMissingParamTag
*         JavadocMissingParamName
*         JavadocDuplicateParamName
*         JavadocInvalidParamName
*         JavadocMissingReturnTag
*         JavadocDuplicateReturnTag
*         JavadocMissingThrowsTag
*         JavadocMissingThrowsClassName
*         JavadocInvalidThrowsClass
*         JavadocDuplicateThrowsClassName
*         JavadocInvalidThrowsClassName
*         JavadocMissingSeeReference
*         JavadocInvalidSeeReference
*         JavadocInvalidSeeHref
*         JavadocInvalidSeeArgs
*         JavadocMissing
*         JavadocInvalidTag
*         JavadocMessagePrefix
 *         EmptyControlFlowStatement
*     IBM Corporation - added the following constants
*         IllegalUsageOfQualifiedTypeReference
*         InvalidDigit
*     IBM Corporation - added the following constants
*         ParameterAssignment
*         FallthroughCase
*     IBM Corporation - added the following constants
*                         UnusedLabel
*                         UnnecessaryNLSTag
*                         LocalVariableMayBeNull
*                         EnumConstantsCannotBeSurroundedByParenthesis
*                         JavadocMissingIdentifier
*                         JavadocNonStaticTypeFromStaticInvocation
*                         RawTypeReference
*                         NoAdditionalBoundAfterTypeVariable
*                         UnsafeGenericArrayForVarargs
*                         IllegalAccessFromTypeVariable
*
```

AnnotationValueMustBeArrayInitializer
* InvalidEncoding
* CannotReadSource
* EnumStaticFieldInInInitializerContext
* ExternalProblemNotFixable
* ExternalProblemFixable
* IBM Corporation - added the following constants
* AnnotationValueMustBeAnEnumConstant
* OverridingMethodWithoutSuperInvocation
* MethodMustOverrideOrImplement
* TypeHidingTypeParameterFromType
* TypeHidingTypeParameterFromMethod
* TypeHidingType
* IBM Corporation - added the following constants
* NullLocalVariableReference
* PotentialNullLocalVariableReference
* RedundantNullCheckOnNullLocalVariable
* NullLocalVariableComparisonYieldsFalse
* RedundantLocalVariableNullAssignment
* NullLocalVariableInstanceofYieldsFalse
* RedundantNullCheckOnNonNullLocalVariable
* NonNullLocalVariableComparisonYieldsFalse
* IBM Corporation - added the following constants
* InvalidUsageOfTypeParametersForAnnotationDeclaration
* InvalidUsageOfTypeParametersForEnumDeclaration
* IBM Corporation - added the following constants
* RedundantSuperinterface
* Benjamin Muskalla - added the following constants
* MissingSynchronizedModifierInInheritedMethod
* Stephan Herrmann - added the following constants
* UnusedObjectAllocation
* PotentiallyUnclosedCloseable
* PotentiallyUnclosedCloseableAtExit
* UnclosedCloseable
* UnclosedCloseableAtExit
* ExplicitlyClosedAutoCloseable
* RequiredNonNullButProvidedNull
* RequiredNonNullButProvidedPotentialNull
* RequiredNonNullButProvidedUnknown
* NullAnnotationNameMustBeQualified
* IllegalReturnNullityRedefinition
* IllegalRedefinitionToNonNullParameter
* IllegalDefinitionToNonNullParameter
* ParameterLackingNonNullAnnotation
* ParameterLackingNullableAnnotation
* PotentialNullMessageSendReference
* RedundantNullCheckOnNonNullMessageSend
* CannotImplementIncompatibleNullness

* RedundantNullAnnotation
* RedundantNullDefaultAnnotation
* RedundantNullDefaultAnnotationPackage
* RedundantNullDefaultAnnotationType
* RedundantNullDefaultAnnotationMethod
* ContradictoryNullAnnotations
* IllegalAnnotationForBaseType
* RedundantNullCheckOnSpecdNonNullLocalVariable
* SpecdNonNullLocalVariableComparisonYieldsFalse
* RequiredNonNullButProvidedSpecdNullable
* MissingDefaultCase
* MissingEnumConstantCaseDespiteDefault
* UninitializedLocalVariableHintMissingDefault
* UninitializedBlankFinalFieldHintMissingDefault
* ShouldReturnValueHintMissingDefault
* IllegalModifierForInterfaceDefaultMethod
* InheritedDefaultMethodConflictsWithOtherInherited
* ConflictingNullAnnotations
* ConflictingInheritedNullAnnotations
* UnsafeElementTypeConversion
* ArrayReferencePotentialNullReference
* DereferencingNullableExpression
* NullityMismatchingTypeAnnotation
* NullityMismatchingTypeAnnotationSuperHint
* NullityUncheckedTypeAnnotationDetail
* NullityUncheckedTypeAnnotationDetailSuperHint
* NullableFieldReference
* UninitializedNonNullField
* UninitializedNonNullFieldHintMissingDefault
* NonNullMessageSendComparisonYieldsFalse
* RedundantNullCheckOnNonNullSpecdField
* NonNullSpecdFieldComparisonYieldsFalse
* NonNullExpressionComparisonYieldsFalse
* RedundantNullCheckOnNonNullExpression
* ReferenceExpressionParameterNullityMismatch
* ReferenceExpressionParameterNullityUnchecked
* ReferenceExpressionReturnNullRedef
* ReferenceExpressionReturnNullRedefUnchecked
* DuplicateInheritedDefaultMethods
* SuperAccessCannotBypassDirectSuper
* SuperCallCannotBypassOverride
* ConflictingNullAnnotations
* ConflictingInheritedNullAnnotations
* UnsafeElementTypeConversion
* PotentialNullUnboxing
* NullUnboxing
* NullExpressionReference
* PotentialNullExpressionReference

```
*       RedundantNullCheckAgainstNonNullType
*       NullAnnotationUnsupportedLocation
*       NullAnnotationUnsupportedLocationAtType
*       NullityMismatchTypeArgument
*       ContradictoryNullAnnotationsOnBound
*       UnsafeNullnessCast
 *       ContradictoryNullAnnotationsInferred
*       NonNullDefaultDetailIsNotEvaluated
*       NullNotCompatibleToFreeTypeVariable
*       NullityMismatchAgainstFreeTypeVariable
*       ImplicitObjectBoundNoNullDefault
*       IllegalParameterNullityRedefinition
*       ContradictoryNullAnnotationsInferredFunctionType
*       IllegalReturnNullityRedefinitionFreeTypeVariable
*       UnlikelyCollectionMethodArgumentType
*       UnlikelyEqualsArgumentType
*     Jesper S Moller  - added the following constants
*       TargetTypeNotAFunctionalInterface
*       OuterLocalMustBeEffectivelyFinal
*       IllegalModifiersForPackage
*       DuplicateAnnotationNotMarkedRepeatable
*       DisallowedTargetForContainerAnnotation
*       RepeatedAnnotationWithContainerAnnotation
*       ContainingAnnotationMustHaveValue
*       ContainingAnnotationHasNonDefaultMembers
*       ContainingAnnotationHasWrongValueType
*       ContainingAnnotationHasShorterRetention
 *       RepeatableAnnotationHasTargets
*       RepeatableAnnotationTargetMismatch
*       RepeatableAnnotationIsDocumented
*       RepeatableAnnotationIsInherited
*       RepeatableAnnotationWithRepeatingContainerAnnotation
*       VarLocalMultipleDeclarators
*       VarLocalCannotBeArray
*       VarLocalReferencesItself
*       VarLocalWithoutInitizalier
*       VarLocalInitializedToNull
*       VarLocalCannotBeArrayInitalizers
*       VarLocalCannotBeLambda
*       VarLocalCannotBeMethodReference
*       VarIsReserved
*       VarIsReservedInFuture
*       VarIsNotAllowedHere
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/core/compiler/IProblem.java

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*     Stephan Herrmann - Contributions for
*          bug 325755 - [compiler] wrong initialization state after conditional expression
*          bug 320170 - [compiler] [null] Whitebox issues in null analysis
*          bug 292478 - Report potentially null across variable assignment
*          bug 332637 - Dead Code detection removing code that isn't dead
*          bug 341499 - [compiler][null] allocate extra bits in all methods of UnconditionalFlowInfo
 *          bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 386181 - [compiler][null] wrong transition in UnconditionalFlowInfo.mergedWith()
*       bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 454031 - [compiler][null][loop] bug in null analysis; wrong "dead code" detection
*       Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/UnconditionalFlowInfo.java
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* Contributors:
*     IBM Corporation - initial API and implementation
*    Jesper Steen Moller - Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
```

**********/

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/model/ExecutableElementImpl.java
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Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/UnlikelyArgumentCheck.java
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Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IModule.java
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/SwitchExpression.java
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* Contributors:
* IBM Corporation - initial API and implementation
* Walter Harley - Patch for ensuring the parent folders are created
**********/

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/tool/EclipseFileObject.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/util/EclipseFileObject.java
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```
*     Stephan Herrmann - initial API and implementation
*     Nikolay Metchev (nikolaymetchev@gmail.com) - Contributions for
*       bug 411098 - [compiler][resource] Invalid Resource Leak Warning using ternary operator inside try-with-resource
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/FakedTrackingVariable.java
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*     Stephan Herrmann - Contribution for
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*     Jesper S Moller - Contributions for
*       Bug 378674 - "The method can be declared as static" is wrong
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ThisReference.java
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*     Stephan Herrmann - initial API and implementation
*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*         Bug 473178
```

**********/

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ConstraintExceptionFormula.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ConstraintFormula.java
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Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/model/ErrorTypeImpl.java
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* Contributors:
* wharley@bea.com - initial API and implementation
* IBM Corporation - fix for 342598
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Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/BaseProcessingEnvImpl.java
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* daolaf@gmail.com - Contribution for bug 3292227
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/Util.java
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* Stephan Herrmann - Contribution for
* bug 383368 - [compiler][null] syntactic null analysis for field references
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/NullLiteral.java
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ReferenceBindingSetWrapper.java
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* Stephan Herrmann - Contribution for
* bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
* Jesper S Moller <jesper@selskabet.org> - Contributions for
* bug 378674 - "The method can be declared as static" is wrong
**********/

Found
 in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedThisReference.java
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*     IBM Corporation - initial API and implementation
*     Stephan Herrmann - Contribution for
*       Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*       Bug 440687 - [compiler][batch][null] improve command line option for external annotations
*******************************************************************************/
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Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathJar.java
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ReductionResult.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/InferenceFailureException.java
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*    IBM Corporation - fix for 342598
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/model/DeclaredTypeImpl.java
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* Contributors:
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*     Stephan Herrmann - Contributions for
*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 402993 - [null] Follow up
 of bug 401088: Missing warning about redundant null check
*       Bug 440282 - [resource] Resource leak detection false negative with empty finally block
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/Block.java

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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ASTVisitor.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/JavadocTagConstants.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ImportBinding.java
*
 /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ImportReference.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/MissingTypeBinding.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/JavadocParser.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/ISourceType.java
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*     Stephan Herrmann - Contributions for
*       bug 366003 - CCE in ASTNode.resolveAnnotations(ASTNode.java:639)
```

```
*       bug 383973 - [1.8][compiler] syntax recovery in the presence of default methods
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredType.java
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/model/TypeElementImpl.java
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*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365519 - editorial cleanup after bug 186342 and bug 365387
*       bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*******************************************************************************/
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Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/PackageBinding.java
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/StackMapFrameCodeStream.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/util/EclipseFileManager.java
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* Stephan Herrmann - Contribution for
* bug 383368 - [compiler][null] syntactic null analysis for field references
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 417295 - [1.8[[null]
 Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
* Andy Clement - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
***/

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/InstanceOfExpression.java
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* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 265744 - Enum switch should warn about missing default

```
*       bug 374605 - Unreasonable warning for enum-based switch statements
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
 *******************************************************************************/
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Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/SwitchStatement.java
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*       Bug 458396 - NPE in CodeStream.invoke()
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*     Benjamin Muskalla - Contribution for bug 239066
*     Stephan Herrmann  - Contributions for
*           bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
*           bug 295551 - Add option to automatically promote all warnings to errors
*           bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
```

```
*       bug
 370639 - [compiler][resource] restore the default for resource leak warnings
*       bug 366063 - Compiler should not add synthetic @NonNull annotations
*       bug 374605 - Unreasonable warning for enum-based switch statements
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*     Jesper Steen Moller - Contributions for
*       bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code
*       bug 407297 - [1.8][compiler] Control generation of parameter names by option
*******************************************************************************/
```

Found
 in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-
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* Bug 412149: [1.8][compiler] Emit repeated annotations into the designated container
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* Contributors:
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 407191 - [1.8] Binary access support for type annotations
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IBinaryTypeAnnotation.java
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/model/ElementImpl.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ClassFilePool.java
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*   bug 185682 - Increment/decrement operators mark local variables as read
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 345305 - [compiler][null]
 Compiler misidentifies a case of "variable can only be null"
*   Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first field
*   Bug 458396 - NPE in CodeStream.invoke()
*   Jesper S Moller - Contributions for
*   bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*   bug 331649 - [compiler][null] consider null annotations for fields
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*   Jesper S Moller <jesper@selskabet.org> - Contributions for
*   bug 378674 - "The method can be declared as static" is wrong
***/

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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedNameReference.java
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*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
*   bug 358903 - Filter practically unimportant resource leak warnings
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 400874 - [1.8][compiler] Inference infrastructure
 should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*   Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression
*   Bug 427411 - [1.8][generics] JDT reports type mismatch when using method that returns generic type
*   Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*   Bug 435962 - [RC2] StackOverFlowError when building
*   Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*   Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*   Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-
jar/org/eclipse/jdt/internal/compiler/batch/BatchCompilerRequestor.java
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*       bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 361407 - Resource leak warning when resource is assigned to a field outside of constructor
*       bug 370639 - [compiler][resource] restore the default for resource leak warnings
*       bug 388996 - [compiler][resource] Incorrect
 'potential resource leak'
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
```

```
*       Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*       Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*       Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*       Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*       Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload
context
*       Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
*       Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*       Bug 427438 - [1.8][compiler]
 NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic
bridge method
*******************************************************************************/
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*       bug 317046 - Exception during debugging when hover mouse over a field
*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*       bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class
 files
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*       Bug 424712 - [1.8][compiler] NPE in TypeBinding.isProvablyDistinctTypeArgument
*       Bug 426792 - [1.8][inference][impl] generify new type inference engine
*       Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
```

```
*       Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*       Bug 427626 - [1.8] StackOverflow while typing new ArrayList<String>().toArray( and asking for code completion
 *       Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*       Bug 435962 - [RC2] StackOverFlowError when building
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*       Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*       Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
*     Jesper S Moller <jesper@selskabet.org> -  Contributions for
*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/TypeBinding.java
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*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
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*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   bug 388281 - [compiler][null] inheritance of null annotations as an option
*   bug 388795 - [compiler] detection of name clash depends on order of super interfaces
*   bug 388739 - [1.8][compiler] consider default methods when detecting whether
 a class needs to be declared abstract
*   bug 390883 - [1.8][compiler] Unable to override default method
*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   bug 401246 - [1.8][compiler] abstract class method should now trump conflicting default methods
*   bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
*   bug 403867 - [1.8][compiler] Suspect error about duplicate default methods
*   bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
*   bug 395681 - [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795
*   bug 409473 - [compiler] JDT cannot compile against JRE 1.8
*   Bug 420080 - [1.8] Overridden Default method is reported as duplicated
*   Bug 404690 - [1.8][compiler] revisit bridge generation after VM bug is fixed
 *   Bug 410325 - [1.7][compiler] Generified method override different between javac and eclipse compiler
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
*   Bug 440773 - [1.8][null]DefaultLocation.RETURN_TYPE erroneously affects method parameters in
@NonNullByDefault
*   Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*   Bug 446442 - [1.8] merge null annotations from super methods
**********/

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/MethodVerifier15.java
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*       bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug
 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 425460 - [1.8] [inference] Type not inferred on stream.toArray
*       Bug 426792 - [1.8][inference][impl] generify new type inference engine
*       Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*       Bug 441693 -
```

[1.8][null] Bogus warning for type argument annotated with @NonNull
* Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
**********/

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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ArrayBinding.java
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/CaseLabel.java
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/FalseLiteral.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/AccessRule.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfIntValues.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/CharLiteral.java
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/StringLiteralConcatenation.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/InnerClassInfo.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFileStruct.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocReturnStatement.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ExtendedStringLiteral.java
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/AbortCompilationUnit.java
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/opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ICompilerRequestor.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/FloatCache.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/antadapter/AntAdapterMessages.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticArgumentBinding.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocSingleNameReference.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/InnerEmulationDependency.java
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/SubRoutineStatement.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfLong.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/PostfixExpression.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/diagnose/RangeUtil.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/PrefixExpression.java
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IModuleAwareNameEnvironment.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IMultiModuleEntry.java
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```
*     Stephan Herrmann - Contributions for
*          bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*          bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*       bug 370639 - [compiler][resource] restore the
 default for resource leak warnings
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 416267 - NPE in QualifiedAllocationExpression.resolveType
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 424415 - [1.8][compiler] Eventual
 resolution of ReferenceExpression is not seen to be happening.
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*     Jesper S Moller <jesper@selskabet.org> - Contributions for
*       bug 378674 - "The method can be declared as static" is wrong
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                    Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                    Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic
bridge method
*     Till Brychcy - Contributions for
*          bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File
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*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*   Bug 415790
 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
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*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/SwitchFlowContext.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/BreakStatement.java
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/ModuleReferenceImpl.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/batch/BasicModule.java
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*          bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*          bug 349326 - [1.7] new warning for missing try-with-resources
*          bug 360328 - [compiler][null] detect null problems in nested code (local class inside a loop)
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365835 - [compiler][null] inconsistent error reporting.
 *       bug 365519 - editorial cleanup after bug 186342 and bug 365387
*       bug 358903 - Filter practically unimportant resource leak warnings
*       bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*       bug 370639 - [compiler][resource] restore the default for resource leak warnings
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*       bug 401030 - [1.8][null] Null analysis support for lambda
 methods.
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*       Bug 417758 - [1.8][null] Null safety compromise during array creation.
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 430150 - [1.8][null] stricter checking against type variables
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 455723 - Nonnull argument not correctly inferred in loop
*     Jesper S Moller - Contributions
 for
*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
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Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-

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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/tool/EclipseBatchRequestor.java
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*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*       Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
*       Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
*       Bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com
 - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                       Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
generator
*                       Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
*                       Bug 415541 - [1.8][compiler] Type annotations in the body of static initializer get dropped
*                       Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code
generator
*                       Bug 415470 - [1.8][compiler] Type annotations on class declaration go vanishing
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*                       Bug 434556 - Broken class file generated for incorrect annotation usage
*                       Bug 442416
 - $deserializeLambda$ missing cases for nested lambdas
*     Stephan Herrmann - Contribution for
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*     Olivier Tardieu tardieu@us.ibm.com - Contributions for
*       Bug 442416 - $deserializeLambda$ missing cases for nested lambdas
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Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ClassFile.java
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/CharConstant.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/LongConstant.java
*
 /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/ByteConstant.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/IntConstant.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/StringConstant.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/ShortConstant.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObject.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/FloatConstant.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/AccessRuleSet.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/BooleanConstant.java
*
 /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocArgumentExpression.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/Constant.java
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* Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
* Jesper Steen Moeller - Contribution for bug 406973 - [compiler] Parse MethodParameters attribute
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

```
*        Bug 407191 - [1.8] Binary access support for type annotations
*******************************************************************************/
```

Found
 in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/MethodInfo.java
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationMethodInfo.java
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*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 358903 - Filter practically unimportant resource leak warnings
*       bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
*       bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
*       bug 382069 - [null] Make
```

the null analysis consider JUnit's assertNotNull similarly to assertions
*	Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly
*	Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*	Bug 425183 - [1.8][inference] make CaptureBinding18 safe
*	Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*	Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
*	Jesper S Moller - Contributions for
*	Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*	Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*	bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*	Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*	Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*	Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
*	bug 386692 - Missing "unused" warning on "autowired" fields
*	Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
*	bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource
**********/

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/TypeConstants.java
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*	IBM Corporation - initial API and implementation
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*	bug 349326 - [1.7] new warning for missing try-with-resources
*	bug 374605 - Unreasonable warning for enum-based switch statements
*	bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
*	bug 382354 - [1.8][compiler] Compiler silent on conflicting modifier
*	bug 401030 - [1.8][null] Null analysis support for lambda methods.
*	Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*	Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*	Jesper S Moller - Contributions for
*	bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression

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jar/org/eclipse/jdt/internal/compiler/ast/OpensStatement.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-
jar/org/eclipse/jdt/internal/compiler/env/PackageExportImpl.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationMethodInfoWithTypeAnnotations.java
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*     Stephan Herrmann - Contribution for
*       bug 331649 - [compiler][null] consider null annotations for fields
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* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 433478 - [compiler][null] NPE in ReferenceBinding.isCompatibleWith
**********/

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* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 358903 - Filter practically unimportant resource
 leak warnings
* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
* bug 370639 - [compiler][resource] restore the default for resource leak warnings
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 424727 - [compiler][null] NullPointerException in

nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)
* Bug 424710
 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
* Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
* Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
* Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
* Bug 424930 - [1.8][compiler] Regression: "Cannot infer type arguments" error from compiler.
* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
* Bug 427438 - [1.8][compiler] NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
 * Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
* Bug 429203 - [1.8][compiler] NPE in AllocationExpression.binding
* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
* Bug 434297 - [1.8] NPE in LamdaExpression.analyseCode with lamda expression nested in a conditional expression
* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
* Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
* Jesper S Moller <jesper@selskabet.org> - Contributions for
* bug 378674 - "The method can be declared as static" is wrong
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive
 code generation support for type annotations (from Olivier's work)
* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method
* Till Brychcy - Contributions for
* bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File
* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
* Bug 473178
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*        bug 331649 - [compiler][null] consider null annotations for fields
*        bug 383368 - [compiler][null] syntactic null analysis for field references
*        bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*        bug 403086 - [compiler][null] include the effect of 'assert'
 in syntactic null analysis for fields
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* bug 332637 - Dead Code detection removing code that isn't dead
* bug 391517 - java.lang.VerifyError on code that runs correctly in Eclipse 3.7 and eclipse 3.6
* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
**********/

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/ConditionalFlowInfo.java
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* bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

```
*       Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with
 generics (RuntimeException instead of IOException)
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ThrowStatement.java
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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*         Bug 328281 - visibility leaks not detected when analyzing unused field in private class
*         Bug 300576 - NPE Computing type hierarchy when compliance doesn't match libraries
*         Bug 354536 - compiling package-info.java still depends on the order of compilation units
*         Bug 349326 - [1.7] new warning for missing try-with-resources
*         Bug
 358903 - Filter practically unimportant resource leak warnings
*       Bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class
*       Bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
*       Bug 444024 - [1.8][compiler][null] Type mismatch error in annotation generics assignment which happens
"sometimes"
*       Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
*        Andy Clement (GoPivotal, Inc) aclement@gopivotal.com -
 Contributions for
*                       Bug 415821 - [1.8][compiler] CLASS_EXTENDS target type annotation missing for anonymous
classes
*     het@google.com - Bug 456986 - Bogus error when annotation processor generates annotation type
*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*         Bug 473178
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Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-

jar/org/eclipse/jdt/internal/compiler/lookup/ClassScope.java
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*     Stephan Herrmann - Contribution for bug 349326 - [1.7] new warning for missing try-with-resources
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/EmptyStatement.java
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*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/VoidTypeBinding.java
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/NullTypeBinding.java
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* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/IPolyExpression.java
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* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
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Found
 in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/BaseTypeBinding.java
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```
*           bug 292478 - Report potentially null across variable assignment
*           bug 332637 - Dead Code detection removing code that isn't dead
*       bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*       Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*       Bug 421035 - [resource]
 False alarm of resource leak warning when casting a closeable in its assignment
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/FlowInfo.java
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/model/TypeMirrorImpl.java
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*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 370639 - [compiler][resource] restore the default for resource leak warnings
*   bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*   Bug 417758 - [1.8][null] Null safety compromise during array creation.
*   Bug 427438 - [1.8][compiler] NPE at
 org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*   Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
***/

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ArrayInitializer.java
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```
*         Bug 407191 - [1.8] Binary access support for type annotations
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* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/TypeAnnotationInfo.java
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*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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*       bug 292478 - Report potentially null across variable assignment,
*       bug 185682 - Increment/decrement operators mark local variables as read
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       Bug 412203 - [compiler] Internal compiler error: java.lang.IllegalArgumentException:
 info cannot be null
*       Bug 458396 - NPE in CodeStream.invoke()
*       Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*     Jesper S Moller - <jesper@selskabet.org>   - Contributions for
*           bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*       bug 378674 - "The method can be declared as static" is wrong
*       bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
*       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*******************************************************************************/
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* bug 282152 - [1.5][compiler] Generics code rejected by Eclipse but accepted by javac
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
* bug 358903 - Filter practically unimportant resource leak warnings
* bug 395002 - Self bound generic class
doesn't resolve bounds properly for wildcards for certain parametrisation.
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 426792 - [1.8][inference][impl] generify new type inference engine
* Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
* Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
* Bug 431269 - [1.8][compiler][null] StackOverflow in nullAnnotatedReadableName
* Bug 431408 - Java 8 (1.8) generics bug
* Bug 435962 - [RC2] StackOverFlowError when building
* Bug
438458 - [1.8][null] clean up handling of null type annotations wrt type variables
* Bug 438250 - [1.8][null] NPE trying to report bogus null annotation conflict
* Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.
* Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables
* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
* Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability analysis
* Bug 456459 - Discrepancy between Eclipse compiler and javac - Enums, interfaces, and generics
* Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
* Bug 462790 - [null] NPE in Expression.computeConversion()
* Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error messages
* Jesper S Møller <jesper@selskabet.org> - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
**********/

Found in path(s):
* /opt/cola/permits/2324344434_1737486170.0172887/0/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/TypeVariableBinding.java

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    all fields (only present with certain compiler settings).
  * Added generation of field number constants.
Wink Saville <wink@google.com>
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Will Pierce <willp@nuclei.com>
  * Small patch improving performance of in Python serialization.
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  * Emacs mode for Protocol Buffers (editors/protobuf-mode.el).
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  * Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

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  * Detect whether zlib is new enough in configure script.
  * Fixes for Solaris 10 32/64-bit confusion.
Evan Jones <evanj@mit.edu>
  * Optimize Java serialization code when writing a small message to a stream.
  * Optimize Java serialization of strings so that UTF-8 encoding happens only
    once per string per serialization call.
  * Clean up some Java warnings.
  * Fix bug with permanent callbacks that delete themselves when run.
Michael Kucharski <m.kucharski@gmail.com>
  * Added CodedInputStream.getTotalBytesRead().
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  * Fixed m4/acx_pthread.m4 problem for some Linux distributions.
William Orr <will@worrbase.com>
  * Fixed detection of sched_yield on Solaris.
  * Added atomicops for Solaris
Andrew Paprocki <andrew@ishiboo.com>
  * Fixed minor IBM xlC compiler build issues
  * Added atomicops for AIX (POWER)
Nipunn Koorapati <nipunn1313@gmail.com>
  * Provide a type alias field ValueType
on EnumTypeWrapper
  * Match service argument names to abstract interface

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  * Fixed warnings about generated constructors not explicitly initializing
    all fields (only present with certain compiler settings).
  * Added generation of field number constants.
Wink Saville <wink@google.com>
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Will Pierce <willp@nuclei.com>
  * Small patch improving performance of in Python serialization.
Alexandre Vassalotti <alexandre@peadrop.com>
  * Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

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  * Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.
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  * HPUX support.
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  * Detect whether zlib is new enough in configure script.
  * Fixes for Solaris 10 32/64-bit confusion.
Evan Jones <evanj@mit.edu>
  * Optimize Java serialization code when writing a small message to a stream.
  * Optimize Java serialization of strings so that UTF-8 encoding happens only
    once per string per serialization call.
  * Clean up some Java warnings.
  * Fix bug with permanent callbacks that delete themselves when run.
Michael Kucharski <m.kucharski@gmail.com>
  * Added CodedInputStream.getTotalBytesRead().
Kacper Kowalik <xarthisius.kk@gmail.com>
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  * Added atomicops for Solaris
Andrew Paprocki <andrew@ishiboo.com>
  * Fixed minor IBM xlC compiler build issues
  * Added atomicops for AIX (POWER)
Nipunn Koorapati <nipunn1313@gmail.com>
  * Provide a type alias field ValueType
on EnumTypeWrapper
  * Match service argument names to abstract interface

1.4628 abseil-cpp-random-internal-randen-hwaes-impl 20240722.0-r0

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1.4629 abseil-cpp-kernel-timeout-internal 20240722.0-r0

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1.4631 abseil-cpp-random-internal-randen-hwaes 20240722.0-r0

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* Provide a type alias field ValueType
on EnumTypeWrapper
* Match service argument names to abstract interface

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A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All
Python releases are Open Source (see https://opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no

2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.4646 azure-sdk-for-go-sdk-azcore v16.2.1

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```
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// +build go1.18

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package fake

import (
 "context"
 "errors"
 "fmt"
 azfake "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake/server"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
 "net/http"
 "net/url"
 "regexp"
)

// LicensesServer is a fake server for instances of the armhybridcompute.LicensesClient type.
type LicensesServer struct {
```

```
 // BeginCreateOrUpdate is the fake for method LicensesClient.BeginCreateOrUpdate
 // HTTP status codes to indicate success:
 http.StatusOK
 BeginCreateOrUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
armhybridcompute.License, options *armhybridcompute.LicensesClientBeginCreateOrUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse], errResp
azfake.ErrorResponder)

 // BeginDelete is the fake for method LicensesClient.BeginDelete
 // HTTP status codes to indicate success: http.StatusOK, http.StatusNoContent
 BeginDelete func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientBeginDeleteOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse], errResp azfake.ErrorResponder)

 // Get is the fake for method LicensesClient.Get
 // HTTP status codes to indicate success: http.StatusOK
 Get func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientGetOptions) (resp
azfake.Responder[armhybridcompute.LicensesClientGetResponse],
 errResp azfake.ErrorResponder)

 // NewListByResourceGroupPager is the fake for method LicensesClient.NewListByResourceGroupPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListByResourceGroupPager func(resourceGroupName string, options
*armhybridcompute.LicensesClientListByResourceGroupOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse])

 // NewListBySubscriptionPager is the fake for method LicensesClient.NewListBySubscriptionPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListBySubscriptionPager func(options *armhybridcompute.LicensesClientListBySubscriptionOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse])

 // BeginUpdate is the fake for method LicensesClient.BeginUpdate
 // HTTP status codes to indicate success: http.StatusOK
 BeginUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
 armhybridcompute.LicenseUpdate, options *armhybridcompute.LicensesClientBeginUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse], errResp azfake.ErrorResponder)

 // BeginValidateLicense is the fake for method LicensesClient.BeginValidateLicense
 // HTTP status codes to indicate success: http.StatusOK
 BeginValidateLicense func(ctx context.Context, parameters armhybridcompute.License, options
*armhybridcompute.LicensesClientBeginValidateLicenseOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse], errResp
azfake.ErrorResponder)
}

// NewLicensesServerTransport creates a new instance of LicensesServerTransport with the provided
implementation.
```

```
// The returned LicensesServerTransport instance is connected to an instance of armhybridcompute.LicensesClient
via the
// azcore.ClientOptions.Transporter field in the client's constructor parameters.
func NewLicensesServerTransport(srv *LicensesServer) *LicensesServerTransport
 {
 return &LicensesServerTransport{
  srv:                    srv,
  beginCreateOrUpdate:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]](),
  beginDelete:            newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]](),
  newListByResourceGroupPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]](),
  newListBySubscriptionPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]](),
  beginUpdate:            newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]](),
  beginValidateLicense:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]](),
 }
}

// LicensesServerTransport connects instances of armhybridcompute.LicensesClient to instances of LicensesServer.
// Don't use this type directly, use NewLicensesServerTransport
 instead.
type LicensesServerTransport struct {
 srv                    *LicensesServer
 beginCreateOrUpdate
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]]
 beginDelete             *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]]
 newListByResourceGroupPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]]
 newListBySubscriptionPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]]
 beginUpdate             *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]]
 beginValidateLicense
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]]
}

// Do implements the policy.Transporter interface for LicensesServerTransport.
func (l *LicensesServerTransport) Do(req *http.Request) (*http.Response, error) {
 rawMethod := req.Context().Value(runtime.CtxAPINameKey{})
 method,
 ok := rawMethod.(string)
 if !ok {
  return nil, nonRetriableError{errors.New("unable to dispatch request, missing value for CtxAPINameKey")}
 }

 var resp *http.Response
 var err error
```

```
 switch method {
 case "LicensesClient.BeginCreateOrUpdate":
  resp, err = l.dispatchBeginCreateOrUpdate(req)
 case "LicensesClient.BeginDelete":
  resp, err = l.dispatchBeginDelete(req)
 case "LicensesClient.Get":
  resp, err = l.dispatchGet(req)
 case "LicensesClient.NewListByResourceGroupPager":
  resp, err = l.dispatchNewListByResourceGroupPager(req)
 case "LicensesClient.NewListBySubscriptionPager":
  resp, err = l.dispatchNewListBySubscriptionPager(req)
 case "LicensesClient.BeginUpdate":
  resp, err = l.dispatchBeginUpdate(req)
 case "LicensesClient.BeginValidateLicense":
  resp, err = l.dispatchBeginValidateLicense(req)
 default:
  err = fmt.Errorf("unhandled API %s", method)
 }

 if err != nil {
  return nil, err
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginCreateOrUpdate(req
 *http.Request) (*http.Response, error) {
 if l.srv.BeginCreateOrUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginCreateOrUpdate not implemented")}
 }
 beginCreateOrUpdate := l.beginCreateOrUpdate.get(req)
 if beginCreateOrUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
```

```
  return
 nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginCreateOrUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body,
nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginCreateOrUpdate = &respr
  l.beginCreateOrUpdate.add(req, beginCreateOrUpdate)
 }

 resp, err := server.PollerResponderNext(beginCreateOrUpdate, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginCreateOrUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginCreateOrUpdate) {
  l.beginCreateOrUpdate.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginDelete(req *http.Request) (*http.Response, error) {
 if l.srv.BeginDelete
 == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginDelete not implemented")}
 }
 beginDelete := l.beginDelete.get(req)
 if beginDelete == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
```

```
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
  return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.BeginDelete(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
 if
respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 beginDelete = &respr
 l.beginDelete.add(req, beginDelete)
}

resp, err := server.PollerResponderNext(beginDelete, req)
if err != nil {
 return nil, err
}

if !contains([]int{http.StatusOK, http.StatusNoContent}, resp.StatusCode) {
 l.beginDelete.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK,
http.StatusNoContent", resp.StatusCode)}
}
if !server.PollerResponderMore(beginDelete) {
 l.beginDelete.remove(req)
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchGet(req *http.Request) (*http.Response, error) {
if l.srv.Get == nil {
 return nil, &nonRetriableError{errors.New("fake for method Get not implemented")}
}
const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
regex
:= regexp.MustCompile(regexStr)
matches := regex.FindStringSubmatch(req.URL.EscapedPath())
if matches == nil || len(matches) < 3 {
 return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
}
resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
```

```
 if err != nil {
  return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.Get(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 respContent := server.GetResponseContent(respr)
 if !contains([]int{http.StatusOK}, respContent.HTTPStatus) {
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
respContent.HTTPStatus)}
 }
 resp, err := server.MarshalResponseAsJSON(respContent,
 server.GetResponse(respr).License, req)
 if err != nil {
  return nil, err
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListByResourceGroupPager(req *http.Request) (*http.Response,
error) {
 if l.srv.NewListByResourceGroupPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListByResourceGroupPager not implemented")}
 }
 newListByResourceGroupPager := l.newListByResourceGroupPager.get(req)
 if newListByResourceGroupPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 2 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if
 err != nil {
   return nil, err
  }
  resp := l.srv.NewListByResourceGroupPager(resourceGroupNameParam, nil)
  newListByResourceGroupPager = &resp
  l.newListByResourceGroupPager.add(req, newListByResourceGroupPager)
  server.PagerResponderInjectNextLinks(newListByResourceGroupPager, req, func(page
```

```
*armhybridcompute.LicensesClientListByResourceGroupResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp, err := server.PagerResponderNext(newListByResourceGroupPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListByResourceGroupPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListByResourceGroupPager) {
  l.newListByResourceGroupPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListBySubscriptionPager(req *http.Request)
 (*http.Response, error) {
 if l.srv.NewListBySubscriptionPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListBySubscriptionPager not implemented")}
 }
 newListBySubscriptionPager := l.newListBySubscriptionPager.get(req)
 if newListBySubscriptionPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 1 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resp := l.srv.NewListBySubscriptionPager(nil)
  newListBySubscriptionPager = &resp
  l.newListBySubscriptionPager.add(req, newListBySubscriptionPager)
  server.PagerResponderInjectNextLinks(newListBySubscriptionPager, req, func(page
*armhybridcompute.LicensesClientListBySubscriptionResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp,
 err := server.PagerResponderNext(newListBySubscriptionPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListBySubscriptionPager.remove(req)
```

```
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListBySubscriptionPager) {
  l.newListBySubscriptionPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginUpdate(req *http.Request) (*http.Response, error) {
 if l.srv.BeginUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginUpdate not implemented")}
 }
 beginUpdate := l.beginUpdate.get(req)
 if beginUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex
 := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.LicenseUpdate](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body, nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginUpdate = &respr
  l.beginUpdate.add(req, beginUpdate)
 }

 resp, err := server.PollerResponderNext(beginUpdate, req)
 if err != nil {
  return nil, err
 }
```

```
 if !contains([]int{http.StatusOK},
 resp.StatusCode) {
  l.beginUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginUpdate) {
  l.beginUpdate.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginValidateLicense(req *http.Request) (*http.Response, error) {
 if l.srv.BeginValidateLicense == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginValidateLicense not implemented")}
 }
 beginValidateLicense := l.beginValidateLicense.get(req)
 if beginValidateLicense == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/validateLicense`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 1 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body,
 err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginValidateLicense(req.Context(), body, nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginValidateLicense = &respr
  l.beginValidateLicense.add(req, beginValidateLicense)
 }

 resp, err := server.PollerResponderNext(beginValidateLicense, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginValidateLicense.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
```

```
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginValidateLicense) {
  l.beginValidateLicense.remove(req)
 }

 return resp, nil
}
```

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SOFTWARE

```
//go:build go1.18
// +build go1.18

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// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package armhybridcompute

import (
 "context"
 "errors"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/arm"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/policy"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "net/http"
```

```
 "net/url"
 "strings"
)

// LicensesClient contains the methods for the Licenses group.
// Don't use this type directly, use NewLicensesClient() instead.
type LicensesClient struct {
 internal       *arm.Client
 subscriptionID string
}

// NewLicensesClient creates a new instance of LicensesClient with the specified values.
//   - subscriptionID - The ID of the target
 subscription.
//   - credential - used to authorize requests. Usually a credential from azidentity.
//   - options - pass nil to accept the default values.
func NewLicensesClient(subscriptionID string, credential azcore.TokenCredential, options *arm.ClientOptions)
(*LicensesClient, error) {
 cl, err := arm.NewClient(moduleName, moduleVersion, credential, options)
 if err != nil {
  return nil, err
 }
 client := &LicensesClient{
  subscriptionID: subscriptionID,
  internal:       cl,
 }
 return client, nil
}

// BeginCreateOrUpdate - The operation to create or update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-10
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - parameters - Parameters supplied to the Create license operation.
//   - options - LicensesClientBeginCreateOrUpdateOptions contains the optional parameters for
 the LicensesClient.BeginCreateOrUpdate
//     method.
func (client *LicensesClient) BeginCreateOrUpdate(ctx context.Context, resourceGroupName string, licenseName
string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions)
(*runtime.Poller[LicensesClientCreateOrUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.createOrUpdate(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
```

```
&runtime.NewPollerOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// CreateOrUpdate - The operation to create or update a license.
// If the operation
 fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-10
func (client *LicensesClient) createOrUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginCreateOrUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.createOrUpdateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// createOrUpdateCreateRequest creates the CreateOrUpdate
 request.
func (client *LicensesClient) createOrUpdateCreateRequest(ctx context.Context, resourceGroupName string,
licenseName string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*policy.Request,
error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
```

```
 return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx,
 http.MethodPut, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-10")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginDelete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-10
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientBeginDeleteOptions contains the optional parameters for the
LicensesClient.BeginDelete method.
func (client *LicensesClient) BeginDelete(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*runtime.Poller[LicensesClientDeleteResponse],
 error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.deleteOperation(ctx, resourceGroupName, licenseName, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
```

```
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// Delete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-10
func (client *LicensesClient) deleteOperation(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginDelete"
 ctx
 = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.deleteCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK, http.StatusNoContent) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// deleteCreateRequest creates the Delete request.
func (client *LicensesClient) deleteCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientBeginDeleteOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return
 nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
```

```
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodDelete, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-10")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// Get - Retrieves information about the view of a license.
// If the operation fails it returns an *azcore.ResponseError
 type.
//
// Generated from API version 2024-07-10
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientGetOptions contains the optional parameters for the LicensesClient.Get method.
func (client *LicensesClient) Get(ctx context.Context, resourceGroupName string, licenseName string, options
*LicensesClientGetOptions) (LicensesClientGetResponse, error) {
 var err error
 const operationName = "LicensesClient.Get"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.getCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return LicensesClientGetResponse{}, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return LicensesClientGetResponse{}, err
 }
 if !runtime.HasStatusCode(httpResp,
 http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return LicensesClientGetResponse{}, err
 }
 resp, err := client.getHandleResponse(httpResp)
 return resp, err
}
```

```
// getCreateRequest creates the Get request.
func (client *LicensesClient) getCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientGetOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return
 nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-10")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// getHandleResponse handles the Get response.
func (client *LicensesClient) getHandleResponse(resp *http.Response) (LicensesClientGetResponse, error) {
 result := LicensesClientGetResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.License); err != nil {
  return LicensesClientGetResponse{}, err
 }
 return result, nil
}

// NewListByResourceGroupPager - The operation to get all licenses of a non-Azure machine
//
// Generated from API version 2024-07-10
//   - resourceGroupName - The name of the
 resource group. The name is case insensitive.
//   - options - LicensesClientListByResourceGroupOptions contains the optional parameters for the
LicensesClient.NewListByResourceGroupPager
//     method.
func (client *LicensesClient) NewListByResourceGroupPager(resourceGroupName string, options
```

```
*LicensesClientListByResourceGroupOptions) *runtime.Pager[LicensesClientListByResourceGroupResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListByResourceGroupResponse]{
  More: func(page LicensesClientListByResourceGroupResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListByResourceGroupResponse)
(LicensesClientListByResourceGroupResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListByResourceGroupPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp, err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(),
 nextLink, func(ctx context.Context) (*policy.Request, error) {
    return client.listByResourceGroupCreateRequest(ctx, resourceGroupName, options)
   }, nil)
   if err != nil {
    return LicensesClientListByResourceGroupResponse{}, err
   }
   return client.listByResourceGroupHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listByResourceGroupCreateRequest creates the ListByResourceGroup request.
func (client *LicensesClient) listByResourceGroupCreateRequest(ctx context.Context, resourceGroupName string,
options *LicensesClientListByResourceGroupOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es"
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if client.subscriptionID == "" {
  return nil,
 errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-10")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
```

```
 return req, nil
}

// listByResourceGroupHandleResponse handles the ListByResourceGroup response.
func (client *LicensesClient) listByResourceGroupHandleResponse(resp *http.Response)
(LicensesClientListByResourceGroupResponse, error) {
 result := LicensesClientListByResourceGroupResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListByResourceGroupResponse{}, err
 }
 return result, nil
}

// NewListBySubscriptionPager - The operation to get all licenses
 of a non-Azure machine
//
// Generated from API version 2024-07-10
//   - options - LicensesClientListBySubscriptionOptions contains the optional parameters for the
LicensesClient.NewListBySubscriptionPager
//     method.
func (client *LicensesClient) NewListBySubscriptionPager(options *LicensesClientListBySubscriptionOptions)
*runtime.Pager[LicensesClientListBySubscriptionResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListBySubscriptionResponse]{
  More: func(page LicensesClientListBySubscriptionResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListBySubscriptionResponse)
(LicensesClientListBySubscriptionResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListBySubscriptionPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp, err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(),
 nextLink, func(ctx context.Context) (*policy.Request, error) {
    return client.listBySubscriptionCreateRequest(ctx, options)
   }, nil)
   if err != nil {
    return LicensesClientListBySubscriptionResponse{}, err
   }
   return client.listBySubscriptionHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listBySubscriptionCreateRequest creates the ListBySubscription request.
func (client *LicensesClient) listBySubscriptionCreateRequest(ctx context.Context, options
```

```
*LicensesClientListBySubscriptionOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/licenses"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil,
 err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-10")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listBySubscriptionHandleResponse handles the ListBySubscription response.
func (client *LicensesClient) listBySubscriptionHandleResponse(resp *http.Response)
(LicensesClientListBySubscriptionResponse, error) {
 result := LicensesClientListBySubscriptionResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListBySubscriptionResponse{}, err
 }
 return result, nil
}

// BeginUpdate - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-10
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - parameters - Parameters supplied to the Update license operation.
//
   - options - LicensesClientBeginUpdateOptions contains the optional parameters for the
LicensesClient.BeginUpdate method.
func (client *LicensesClient) BeginUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions)
(*runtime.Poller[LicensesClientUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.update(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientUpdateResponse]{
```

```
  Tracer: client.internal.Tracer(),
 })
 return poller, err
} else {
 return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientUpdateResponse]{
  Tracer: client.internal.Tracer(),
 })
}
}

// Update - The operation to update a license.
//
 If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-10
func (client *LicensesClient) update(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.updateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// updateCreateRequest creates the Update request.
func (client
 *LicensesClient) updateCreateRequest(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
```

```
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodPatch, runtime.JoinPaths(client.internal.Endpoint(),
 urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-10")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-10
//   - parameters - Parameters supplied to the license validation operation.
//   - options - LicensesClientBeginValidateLicenseOptions contains the optional parameters for the
LicensesClient.BeginValidateLicense
//     method.
func (client *LicensesClient) BeginValidateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions) (*runtime.Poller[LicensesClientValidateLicenseResponse], error) {
 if options == nil || options.ResumeToken
 == "" {
  resp, err := client.validateLicense(ctx, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientValidateLicenseResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientValidateLicenseResponse]{
```

```
  Tracer: client.internal.Tracer(),
 })
 }
}

// ValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-10
func (client *LicensesClient) validateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginValidateLicense"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{},
 operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.validateLicenseCreateRequest(ctx, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// validateLicenseCreateRequest creates the ValidateLicense request.
func (client *LicensesClient) validateLicenseCreateRequest(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/validateLicense"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}",
 url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodPost, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-10")
 req.Raw().URL.RawQuery = reqQP.Encode()
```

```
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}
```

azwebpubsub

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```
//go:build go1.18
// +build go1.18

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package armhybridcompute_test

import (
 "context"
 "log"

 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/azidentity"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
)

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/f41d0c9332078cb2ef07b749081d94915255ada5/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/stable/2024-07-10/examples/license/License_ValidateLicense.json
func ExampleLicensesClient_BeginValidateLicense() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed
 to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
```

```
poller, err := clientFactory.NewLicensesClient().BeginValidateLicense(ctx, armhybridcompute.License{
 Location: to.Ptr("eastus2euap"),
 Properties: &armhybridcompute.LicenseProperties{
  LicenseDetails: &armhybridcompute.LicenseDetails{
   Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
   Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
   Processors: to.Ptr[int32](6),
   State:      to.Ptr(armhybridcompute.LicenseStateActivated),
   Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
  },
  LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 },
}, nil)
if err != nil {
 log.Fatalf("failed to finish the request: %v", err)
}
res, err := poller.PollUntilDone(ctx, nil)
if err != nil {
 log.Fatalf("failed
to pull the result: %v", err)
}
// You could use response here. We use blank identifier for just demo purposes.
_ = res
// If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
// res.License = armhybridcompute.License{
//  Name: to.Ptr("{licenseName}"),
//  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
//  ID: to.Ptr("/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/Licenses/{licenseName}"),
//  Location: to.Ptr("eastus2euap"),
//  Properties: &armhybridcompute.LicenseProperties{
//   LicenseDetails: &armhybridcompute.LicenseDetails{
//    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
//    AssignedLicenses: to.Ptr[int32](2),
//    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//    ImmutableID: to.Ptr("<generated Guid>"),
//    Processors: to.Ptr[int32](6),
//
   State: to.Ptr(armhybridcompute.LicenseStateActivated),
//    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//   },
//   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
//   TenantID: to.Ptr("{tenandId}"),
//  },
// }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
```

```
specs/blob/f41d0c9332078cb2ef07b749081d94915255ada5/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/stable/2024-07-10/examples/license/License_CreateOrUpdate.json
func ExampleLicensesClient_BeginCreateOrUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginCreateOrUpdate(ctx, "myResourceGroup", "{licenseName}",
 armhybridcompute.License{
  Location: to.Ptr("eastus2euap"),
  Properties: &armhybridcompute.LicenseProperties{
   LicenseDetails: &armhybridcompute.LicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are
 fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
```

```
 //    AssignedLicenses: to.Ptr[int32](2),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition:
 https://github.com/Azure/azure-rest-api-
specs/blob/f41d0c9332078cb2ef07b749081d94915255ada5/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/stable/2024-07-10/examples/license/License_Update.json
func ExampleLicensesClient_BeginUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginUpdate(ctx, "myResourceGroup", "{licenseName}",
armhybridcompute.LicenseUpdate{
  Properties: &armhybridcompute.LicenseUpdateProperties{
   LicenseDetails: &armhybridcompute.LicenseUpdatePropertiesLicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors:
 to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
```

```
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/lice
nses/{licenseName}"),
 //
  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/f41d0c9332078cb2ef07b749081d94915255ada5/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/stable/2024-07-10/examples/license/License_Get.json
func ExampleLicensesClient_Get() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if
 err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 res, err := clientFactory.NewLicensesClient().Get(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
```

```
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //
  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/f41d0c9332078cb2ef07b749081d94915255ada5/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/stable/2024-07-10/examples/license/License_Delete.json
func ExampleLicensesClient_BeginDelete() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if
 err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginDelete(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 _, err = poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
```

```
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/f41d0c9332078cb2ef07b749081d94915255ada5/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/stable/2024-07-10/examples/license/License_ListByResourceGroup.json
func ExampleLicensesClient_NewListByResourceGroupPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed
 to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListByResourceGroupPager("myResourceGroup", nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
   // You could use page here. We use blank identifier for just demo purposes.
   _ = v
  }
  // If the HTTP response code is 200 as defined in example definition, your page structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
  // page.LicensesListResult = armhybridcompute.LicensesListResult{
  //  Value: []*armhybridcompute.License{
  //   {
  //    Name: to.Ptr("{licenseName}"),
  //    Type: to.Ptr("Microsoft.HybridCompute/licenses"),
  //
    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
  //    Location: to.Ptr("eastus2euap"),
  //    Properties: &armhybridcompute.LicenseProperties{
  //     LicenseDetails: &armhybridcompute.LicenseDetails{
  //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
  //      AssignedLicenses: to.Ptr[int32](8),
  //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
  //      ImmutableID: to.Ptr("<generated Guid>"),
  //      Processors: to.Ptr[int32](6),
  //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
  //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
  //     },
```

```
  //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  //     TenantID: to.Ptr("{tenandId}"),
  //    },
  //  }},
  // }
 }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/f41d0c9332078cb2ef07b749081d94915255ada5/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/stable/2024-07-10/examples/license/License_ListBySubscription.json
func
 ExampleLicensesClient_NewListBySubscriptionPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListBySubscriptionPager(nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
   // You could use page here. We use blank identifier for just demo purposes.
   _ = v
  }
  // If the HTTP response code is 200 as defined in example definition, your page structure would look as follows.
Please pay attention that all the values in the output
 are fake values for just demo purposes.
  // page.LicensesListResult = armhybridcompute.LicensesListResult{
  //  Value: []*armhybridcompute.License{
  //   {
  //    Name: to.Ptr("{licenseName}"),
  //    Type: to.Ptr("Microsoft.HybridCompute/licenses"),
  //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
  //    Location: to.Ptr("eastus2euap"),
  //    Properties: &armhybridcompute.LicenseProperties{
  //     LicenseDetails: &armhybridcompute.LicenseDetails{
  //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
  //      AssignedLicenses: to.Ptr[int32](8),
```

```
  //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
  //      ImmutableID: to.Ptr("<generated Guid>"),
  //      Processors: to.Ptr[int32](6),
  //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
  //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
  //     },
  //     LicenseType:
 to.Ptr(armhybridcompute.LicenseTypeESU),
  //     TenantID: to.Ptr("{tenandId}"),
  //    },
  //  }},
  // }
 }
}
```

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1.4647 libffi v3.4.2

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```
//go:build go1.18
// +build go1.18

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// Code generated by Microsoft (R) AutoRest Code Generator.
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// DO NOT EDIT.

package armhybridcompute_test

import (
 "context"
 "log"

 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
```

```
 "github.com/Azure/azure-sdk-for-go/sdk/azidentity"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
)

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/f4c6c8697c59f966db0d1e36b62df3af3bca9065/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-03-31-preview/examples/license/License_CreateOrUpdate.json
func ExampleLicensesClient_BeginCreateOrUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil
 {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginCreateOrUpdate(ctx, "myResourceGroup", "{licenseName}",
armhybridcompute.License{
  Location: to.Ptr("eastus2euap"),
  Properties: &armhybridcompute.LicenseProperties{
   LicenseDetails: &armhybridcompute.LicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx,
 nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
```

```
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Licenses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](2),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID:
 to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-specs/blob/f4c6c8697c59f966db0d1e36b62df3af3bca9065/specification/hybridcompute/resource-manager/Microsoft.HybridCompute/preview/2024-03-31-preview/examples/license/License_Update.json
func ExampleLicensesClient_BeginUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginUpdate(ctx,
 "myResourceGroup", "{licenseName}", armhybridcompute.LicenseUpdate{
  Properties: &armhybridcompute.LicenseUpdateProperties{
   LicenseDetails: &armhybridcompute.LicenseUpdatePropertiesLicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
```

```
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please
 pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/lice
nses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //
  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/f4c6c8697c59f966db0d1e36b62df3af3bca9065/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-03-31-preview/examples/license/License_Get.json
func ExampleLicensesClient_Get() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 res, err := clientFactory.NewLicensesClient().Get(ctx, "myResourceGroup", "{licenseName}", nil)
```

```
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would
 look as follows. Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //
   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/f4c6c8697c59f966db0d1e36b62df3af3bca9065/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-03-31-preview/examples/license/License_Delete.json
func ExampleLicensesClient_BeginDelete() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginDelete(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
```

```
 _, err = poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
}

// Generated from example
 definition: https://github.com/Azure/azure-rest-api-
specs/blob/f4c6c8697c59f966db0d1e36b62df3af3bca9065/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-03-31-
preview/examples/license/License_ListByResourceGroup.json
func ExampleLicensesClient_NewListByResourceGroupPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListByResourceGroupPager("myResourceGroup", nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
   // You could use page here. We use blank identifier for just demo purposes.
   _ = v
  }
  // If the HTTP response
 code is 200 as defined in example definition, your page structure would look as follows. Please pay attention that all
the values in the output are fake values for just demo purposes.
  // page.LicensesListResult = armhybridcompute.LicensesListResult{
  //  Value: []*armhybridcompute.License{
  //   {
  //    Name: to.Ptr("{licenseName}"),
  //    Type: to.Ptr("Microsoft.HybridCompute/licenses"),
  //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
  //    Location: to.Ptr("eastus2euap"),
  //    Properties: &armhybridcompute.LicenseProperties{
  //     LicenseDetails: &armhybridcompute.LicenseDetails{
  //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
  //      AssignedLicenses: to.Ptr[int32](8),
  //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
```

```
 //      ImmutableID: to.Ptr("<generated Guid>"),
 //      Processors: to.Ptr[int32](6),
 //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //
     Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //     },
 //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //     TenantID: to.Ptr("{tenandId}"),
 //    },
 //  }},
 // }
 }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/f4c6c8697c59f966db0d1e36b62df3af3bca9065/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-03-31-
preview/examples/license/License_ListBySubscription.json
func ExampleLicensesClient_NewListBySubscriptionPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListBySubscriptionPager(nil)
 for pager.More()
 {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
   // You could use page here. We use blank identifier for just demo purposes.
   _ = v
  }
  // If the HTTP response code is 200 as defined in example definition, your page structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
  // page.LicensesListResult = armhybridcompute.LicensesListResult{
  //  Value: []*armhybridcompute.License{
  //   {
  //    Name: to.Ptr("{licenseName}"),
  //    Type: to.Ptr("Microsoft.HybridCompute/licenses"),
  //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
```

```
enses/{licenseName}"),
  //    Location: to.Ptr("eastus2euap"),
  //    Properties: &armhybridcompute.LicenseProperties{
  //     LicenseDetails: &armhybridcompute.LicenseDetails{
  //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
  //
     AssignedLicenses: to.Ptr[int32](8),
  //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
  //      ImmutableID: to.Ptr("<generated Guid>"),
  //      Processors: to.Ptr[int32](6),
  //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
  //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
  //     },
  //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  //     TenantID: to.Ptr("{tenandId}"),
  //    },
  //  }},
  // }
 }
}
aztemplate
```

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SOFTWARE.
//go:build go1.18
// +build go1.18

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// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package fake

```
import (
 "context"
 "errors"
 "fmt"
 azfake "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake/server"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
 "net/http"
 "net/url"
 "regexp"
```

```
)

// LicensesServer is a fake server for instances of the armhybridcompute.LicensesClient type.
type LicensesServer struct {
 // BeginCreateOrUpdate is the fake for method LicensesClient.BeginCreateOrUpdate
 // HTTP status codes to indicate success:
 http.StatusOK
 BeginCreateOrUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
armhybridcompute.License, options *armhybridcompute.LicensesClientBeginCreateOrUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse], errResp
azfake.ErrorResponder)

 // BeginDelete is the fake for method LicensesClient.BeginDelete
 // HTTP status codes to indicate success: http.StatusOK, http.StatusNoContent
 BeginDelete func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientBeginDeleteOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse], errResp azfake.ErrorResponder)

 // Get is the fake for method LicensesClient.Get
 // HTTP status codes to indicate success: http.StatusOK
 Get func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientGetOptions) (resp
azfake.Responder[armhybridcompute.LicensesClientGetResponse],
 errResp azfake.ErrorResponder)

 // NewListByResourceGroupPager is the fake for method LicensesClient.NewListByResourceGroupPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListByResourceGroupPager func(resourceGroupName string, options
*armhybridcompute.LicensesClientListByResourceGroupOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse])

 // NewListBySubscriptionPager is the fake for method LicensesClient.NewListBySubscriptionPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListBySubscriptionPager func(options *armhybridcompute.LicensesClientListBySubscriptionOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse])

 // BeginUpdate is the fake for method LicensesClient.BeginUpdate
 // HTTP status codes to indicate success: http.StatusOK
 BeginUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
 armhybridcompute.LicenseUpdate, options *armhybridcompute.LicensesClientBeginUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse], errResp azfake.ErrorResponder)
}

// NewLicensesServerTransport creates a new instance of LicensesServerTransport with the provided
implementation.
// The returned LicensesServerTransport instance is connected to an instance of armhybridcompute.LicensesClient
via the
// azcore.ClientOptions.Transporter field in the client's constructor parameters.
```

```
func NewLicensesServerTransport(srv *LicensesServer) *LicensesServerTransport {
 return &LicensesServerTransport{
  srv:                    srv,
  beginCreateOrUpdate:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]](),
  beginDelete:            newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]](),
  newListByResourceGroupPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]](),
  newListBySubscriptionPager:
  newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]](),
  beginUpdate:            newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]](),
 }
}

// LicensesServerTransport connects instances of armhybridcompute.LicensesClient to instances of LicensesServer.
// Don't use this type directly, use NewLicensesServerTransport instead.
type LicensesServerTransport struct {
 srv                     *LicensesServer
 beginCreateOrUpdate
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]]
 beginDelete             *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]]
 newListByResourceGroupPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]]
 newListBySubscriptionPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]]
 beginUpdate
            *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]]
}

// Do implements the policy.Transporter interface for LicensesServerTransport.
func (l *LicensesServerTransport) Do(req *http.Request) (*http.Response, error) {
 rawMethod := req.Context().Value(runtime.CtxAPINameKey{})
 method, ok := rawMethod.(string)
 if !ok {
  return nil, nonRetriableError{errors.New("unable to dispatch request, missing value for CtxAPINameKey")}
 }

 var resp *http.Response
 var err error

 switch method {
 case "LicensesClient.BeginCreateOrUpdate":
  resp, err = l.dispatchBeginCreateOrUpdate(req)
 case "LicensesClient.BeginDelete":
  resp, err = l.dispatchBeginDelete(req)
 case "LicensesClient.Get":
  resp, err = l.dispatchGet(req)
 case "LicensesClient.NewListByResourceGroupPager":
```

```
 resp, err = l.dispatchNewListByResourceGroupPager(req)
 case "LicensesClient.NewListBySubscriptionPager":
  resp, err = l.dispatchNewListBySubscriptionPager(req)
 case
 "LicensesClient.BeginUpdate":
  resp, err = l.dispatchBeginUpdate(req)
 default:
  err = fmt.Errorf("unhandled API %s", method)
 }

 if err != nil {
  return nil, err
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginCreateOrUpdate(req *http.Request) (*http.Response, error) {
 if l.srv.BeginCreateOrUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginCreateOrUpdate not implemented")}
 }
 beginCreateOrUpdate := l.beginCreateOrUpdate.get(req)
 if beginCreateOrUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body,
 err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginCreateOrUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body,
nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
```

```
  }
  beginCreateOrUpdate = &respr
  l.beginCreateOrUpdate.add(req, beginCreateOrUpdate)
 }

 resp, err := server.PollerResponderNext(beginCreateOrUpdate, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginCreateOrUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if
 !server.PollerResponderMore(beginCreateOrUpdate) {
  l.beginCreateOrUpdate.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginDelete(req *http.Request) (*http.Response, error) {
 if l.srv.BeginDelete == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginDelete not implemented")}
 }
 beginDelete := l.beginDelete.get(req)
 if beginDelete == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return
 nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginDelete(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
```

```
  return nil, respErr
 }
 beginDelete = &respr
 l.beginDelete.add(req, beginDelete)
}

resp, err := server.PollerResponderNext(beginDelete, req)
if err != nil {
 return nil, err
}

if !contains([]int{http.StatusOK, http.StatusNoContent}, resp.StatusCode) {
 l.beginDelete.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK,
http.StatusNoContent", resp.StatusCode)}
}
if !server.PollerResponderMore(beginDelete) {
 l.beginDelete.remove(req)
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchGet(req *http.Request) (*http.Response, error) {
if l.srv.Get == nil {
 return nil, &nonRetriableError{errors.New("fake
for method Get not implemented")}
}
const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
regex := regexp.MustCompile(regexStr)
matches := regex.FindStringSubmatch(req.URL.EscapedPath())
if matches == nil || len(matches) < 3 {
 return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
}
resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
if err != nil {
 return nil, err
}
licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
if err != nil {
 return nil, err
}
respr, errRespr := l.srv.Get(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
if respErr := server.GetError(errRespr, req); respErr != nil {
 return nil, respErr
}
```

```
 respContent := server.GetResponseContent(respr)
 if
 !contains([]int{http.StatusOK}, respContent.HTTPStatus) {
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
respContent.HTTPStatus)}
 }
 resp, err := server.MarshalResponseAsJSON(respContent, server.GetResponse(respr).License, req)
 if err != nil {
  return nil, err
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListByResourceGroupPager(req *http.Request) (*http.Response,
error) {
 if l.srv.NewListByResourceGroupPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListByResourceGroupPager not implemented")}
 }
 newListByResourceGroupPager := l.newListByResourceGroupPager.get(req)
 if newListByResourceGroupPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches :=
 regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 2 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  resp := l.srv.NewListByResourceGroupPager(resourceGroupNameParam, nil)
  newListByResourceGroupPager = &resp
  l.newListByResourceGroupPager.add(req, newListByResourceGroupPager)
  server.PagerResponderInjectNextLinks(newListByResourceGroupPager, req, func(page
*armhybridcompute.LicensesClientListByResourceGroupResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp, err := server.PagerResponderNext(newListByResourceGroupPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListByResourceGroupPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values
```

```
 are http.StatusOK", resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListByResourceGroupPager) {
  l.newListByResourceGroupPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListBySubscriptionPager(req *http.Request) (*http.Response, error)
{
 if l.srv.NewListBySubscriptionPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListBySubscriptionPager not implemented")}
 }
 newListBySubscriptionPager := l.newListBySubscriptionPager.get(req)
 if newListBySubscriptionPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 1 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resp := l.srv.NewListBySubscriptionPager(nil)
  newListBySubscriptionPager = &resp
  l.newListBySubscriptionPager.add(req,
 newListBySubscriptionPager)
  server.PagerResponderInjectNextLinks(newListBySubscriptionPager, req, func(page
*armhybridcompute.LicensesClientListBySubscriptionResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp, err := server.PagerResponderNext(newListBySubscriptionPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListBySubscriptionPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListBySubscriptionPager) {
  l.newListBySubscriptionPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginUpdate(req *http.Request) (*http.Response, error) {
 if l.srv.BeginUpdate == nil {
```

```
 return nil, &nonRetriableError{errors.New("fake for method BeginUpdate not implemented")}
 }
 beginUpdate := l.beginUpdate.get(req)
 if
 beginUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.LicenseUpdate](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body, nil)
  if respErr := server.GetError(errRespr,
 req); respErr != nil {
   return nil, respErr
  }
  beginUpdate = &respr
  l.beginUpdate.add(req, beginUpdate)
 }

 resp, err := server.PollerResponderNext(beginUpdate, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginUpdate) {
  l.beginUpdate.remove(req)
 }
```

```
 return resp, nil
}
//go:build go1.18
// +build go1.18

// Copyright (c) Microsoft Corporation. All rights reserved.
// Licensed under the MIT License. See License.txt in the project root for license information.
// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package armhybridcompute

import (
 "context"
 "errors"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/arm"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/policy"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "net/http"
 "net/url"
 "strings"
)

// LicensesClient contains the methods for the Licenses group.
// Don't use this type directly, use NewLicensesClient() instead.
type LicensesClient struct {
 internal       *arm.Client
 subscriptionID string
}

// NewLicensesClient creates a new instance of LicensesClient with the specified values.
//   - subscriptionID - The ID of the target
 subscription.
//   - credential - used to authorize requests. Usually a credential from azidentity.
//   - options - pass nil to accept the default values.
func NewLicensesClient(subscriptionID string, credential azcore.TokenCredential, options *arm.ClientOptions)
(*LicensesClient, error) {
 cl, err := arm.NewClient(moduleName, moduleVersion, credential, options)
 if err != nil {
  return nil, err
 }
 client := &LicensesClient{
  subscriptionID: subscriptionID,
  internal:       cl,
 }
 return client, nil
}
```

```
// BeginCreateOrUpdate - The operation to create or update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-03-31-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - parameters - Parameters supplied to the Create license operation.
//   - options - LicensesClientBeginCreateOrUpdateOptions contains the optional parameters
 for the LicensesClient.BeginCreateOrUpdate
//     method.
func (client *LicensesClient) BeginCreateOrUpdate(ctx context.Context, resourceGroupName string, licenseName
string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions)
(*runtime.Poller[LicensesClientCreateOrUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.createOrUpdate(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// CreateOrUpdate - The operation to create or update a license.
// If the
 operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-03-31-preview
func (client *LicensesClient) createOrUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginCreateOrUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.createOrUpdateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
```

```
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// createOrUpdateCreateRequest creates
 the CreateOrUpdate request.
func (client *LicensesClient) createOrUpdateCreateRequest(ctx context.Context, resourceGroupName string,
licenseName string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*policy.Request,
error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx,
 http.MethodPut, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-03-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginDelete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
```

```
//
// Generated from API version 2024-03-31-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientBeginDeleteOptions contains the optional parameters for the
LicensesClient.BeginDelete method.
func (client *LicensesClient) BeginDelete(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*runtime.Poller[LicensesClientDeleteResponse],
 error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.deleteOperation(ctx, resourceGroupName, licenseName, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// Delete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-03-31-preview
func (client *LicensesClient) deleteOperation(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*http.Response, error) {
 var err error
 const
 operationName = "LicensesClient.BeginDelete"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.deleteCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK, http.StatusNoContent) {
```

```
 err = runtime.NewResponseError(httpResp)
 return nil, err
 }
 return httpResp, nil
}

// deleteCreateRequest creates the Delete request.
func (client *LicensesClient) deleteCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientBeginDeleteOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodDelete, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-03-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// Get - Retrieves information about the view of a license.
//
 If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-03-31-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientGetOptions contains the optional parameters for the LicensesClient.Get method.
func (client *LicensesClient) Get(ctx context.Context, resourceGroupName string, licenseName string, options
*LicensesClientGetOptions) (LicensesClientGetResponse, error) {
 var err error
 const operationName = "LicensesClient.Get"
```

```
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.getCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return LicensesClientGetResponse{}, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil
 {
  return LicensesClientGetResponse{}, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return LicensesClientGetResponse{}, err
 }
 resp, err := client.getHandleResponse(httpResp)
 return resp, err
}

// getCreateRequest creates the Get request.
func (client *LicensesClient) getCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientGetOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
 licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-03-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
```

```
}

// getHandleResponse handles the Get response.
func (client *LicensesClient) getHandleResponse(resp *http.Response) (LicensesClientGetResponse, error) {
 result := LicensesClientGetResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.License); err != nil {
  return LicensesClientGetResponse{}, err
 }
 return result, nil
}

// NewListByResourceGroupPager - The operation to get all licenses of a non-Azure machine
//
// Generated from
 API version 2024-03-31-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - options - LicensesClientListByResourceGroupOptions contains the optional parameters for the
LicensesClient.NewListByResourceGroupPager
//     method.
func (client *LicensesClient) NewListByResourceGroupPager(resourceGroupName string, options
*LicensesClientListByResourceGroupOptions) *runtime.Pager[LicensesClientListByResourceGroupResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListByResourceGroupResponse]{
  More: func(page LicensesClientListByResourceGroupResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListByResourceGroupResponse)
(LicensesClientListByResourceGroupResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListByResourceGroupPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp,
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listByResourceGroupCreateRequest(ctx, resourceGroupName, options)
   }, nil)
   if err != nil {
    return LicensesClientListByResourceGroupResponse{}, err
   }
   return client.listByResourceGroupHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listByResourceGroupCreateRequest creates the ListByResourceGroup request.
func (client *LicensesClient) listByResourceGroupCreateRequest(ctx context.Context, resourceGroupName string,
```

```
options *LicensesClientListByResourceGroupOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es"
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-03-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listByResourceGroupHandleResponse handles the ListByResourceGroup response.
func (client *LicensesClient) listByResourceGroupHandleResponse(resp *http.Response)
(LicensesClientListByResourceGroupResponse, error) {
 result := LicensesClientListByResourceGroupResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListByResourceGroupResponse{}, err
 }
 return
 result, nil
}

// NewListBySubscriptionPager - The operation to get all licenses of a non-Azure machine
//
// Generated from API version 2024-03-31-preview
//   - options - LicensesClientListBySubscriptionOptions contains the optional parameters for the
LicensesClient.NewListBySubscriptionPager
//     method.
func (client *LicensesClient) NewListBySubscriptionPager(options *LicensesClientListBySubscriptionOptions)
*runtime.Pager[LicensesClientListBySubscriptionResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListBySubscriptionResponse]{
  More: func(page LicensesClientListBySubscriptionResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListBySubscriptionResponse)
```

```
(LicensesClientListBySubscriptionResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListBySubscriptionPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp,
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listBySubscriptionCreateRequest(ctx, options)
   }, nil)
   if err != nil {
    return LicensesClientListBySubscriptionResponse{}, err
   }
   return client.listBySubscriptionHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listBySubscriptionCreateRequest creates the ListBySubscription request.
func (client *LicensesClient) listBySubscriptionCreateRequest(ctx context.Context, options
*LicensesClientListBySubscriptionOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/licenses"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet,
 runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-03-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listBySubscriptionHandleResponse handles the ListBySubscription response.
func (client *LicensesClient) listBySubscriptionHandleResponse(resp *http.Response)
(LicensesClientListBySubscriptionResponse, error) {
 result := LicensesClientListBySubscriptionResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListBySubscriptionResponse{}, err
 }
 return result, nil
```

```
}

// BeginUpdate - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-03-31-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName
 - The name of the license.
//   - parameters - Parameters supplied to the Update license operation.
//   - options - LicensesClientBeginUpdateOptions contains the optional parameters for the
LicensesClient.BeginUpdate method.
func (client *LicensesClient) BeginUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions)
(*runtime.Poller[LicensesClientUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.update(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientUpdateResponse]{
   Tracer:
 client.internal.Tracer(),
  })
 }
}

// Update - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-03-31-preview
func (client *LicensesClient) update(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.updateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
```

```
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return
 nil, err
 }
 return httpResp, nil
}

// updateCreateRequest creates the Update request.
func (client *LicensesClient) updateCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}",
 url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodPatch, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-03-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}
```

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1.4651 ttrpc 1.2.7

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)

in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.4655 python3.10-minimal 3.10.12-1~22.04.8

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see

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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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1.4656 jboss-logging 3.3.2.Final

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* /opt/cola/permits/2327367870_1737630123.2020104/0/javassist-3-27-0-ga-sources-5-jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/2327367870_1737630123.2020104/0/javassist-3-27-0-ga-sources-5-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/2327367870_1737630123.2020104/0/javassist-3-27-0-ga-sources-5-jar/javassist/bytecode/annotation/IntegerMemberValue.java

1.4658 jetty-util 9.4.53.v20231009

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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http://openjdk.java.net/legal/gplv2+ce.html

OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2
 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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org.ow2.asm:asm-commons
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org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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1.4675 github.com/go-git/go-billy/v5 5.6.1

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1.4676 go-git-go-git 5.13.1

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1.4677 go-isatty 0.0.19

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1.4678 sean-seed 0.0.0-20170313163322-e2103e2c3529

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1.4679 docker 27.5.1-1~ubuntu.22.04~jammy

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package v2_1

// OtherLicense is an Other License Information section of an
// SPDX Document for version 2.1 of the spec.
```

```
type OtherLicense struct {
 // 6.1: License Identifier: "LicenseRef-[idstring]"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 6.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //              License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 6.3: License Name: single line of text or "NOASSERTION"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseName string `json:"name,omitempty"`

 // 6.4: License Cross Reference
 // Cardinality: conditional (optional, one or many) if license
 //              is not on SPDX License List
 LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

 // 6.5:
 License Comment
 // Cardinality: optional, one
 LicenseComment string `json:"comment,omitempty"`
}
```

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```
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type OtherLicense struct {
 // 10.1: License Identifier: "LicenseRef-[idstring]"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 10.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //              License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 10.3: License Name: single line of text or "NOASSERTION"
 // Cardinality: conditional (mandatory, one) if license is not
```

```
//            on SPDX License List
LicenseName string `json:"name,omitempty"`

// 10.4: License Cross Reference
// Cardinality: conditional (optional, one or many) if license
//            is not on SPDX License List
LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

// 10.5: License Comment
// Cardinality:
optional, one
LicenseComment string `json:"comment,omitempty"`
}
```

procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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localtime.go, localtime_test.go:

Originals:
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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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1.4680 protobuf-go 1.35.1

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1.4681 cel-go 0.22.0

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==========
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1.4691 github.com/grpc-ecosystem/grpc-gateway/v2 2.25.1

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1.4698 otel-metric 1.34.0

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1.4699 ca-certificates-bundle 20241121-r1

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```
# Contributor: Patrycja Rosa <alpine@ptrcnull.me>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=bsd-compat-headers
pkgver=0.7.2
pkgrel=6
pkgdesc="BSD compatibility headers (cdefs, queue, tree)"
url="https://gitlab.alpinelinux.org/alpine/aports"
arch="noarch"
license="BSD-2-Clause AND BSD-3-Clause"
source="
 cdefs.h
 queue.h
 tree.h
"
builddir="$srcdir"
options="!check" # just headers

package() {
 mkdir -p "$pkgdir"
 install -Dm644 -t "$pkgdir"/usr/include/sys \
  cdefs.h queue.h tree.h
}
sha512sums="
37c8fc73c7aea7b490f7850927e2bb91d12137c9e59e22c084146d515696dbc7973b5de92f4c987ba080dd2502ba8312
7006442c3f019b6447a620c0cae73178  cdefs.h
2f0d5e6e4dc3350285cf17009265dddcbe12431c111868eea39bc8cb038ab7c1f2acacbb21735c4e9d4a1fd106a8fc0f86
11ea33987d4faba37dde5ce6da0750  queue.h
d9ac210d81feb8ad2655bc80fb065d3fe20ae4417b32b4a1711e6738a4870140005c13373b5d1846ef3ce5ae6da45f2da
cef2092881eded0a2e94f6a07752ef3  tree.h
"
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=8
pkgdesc="A library for high-performance 2D graphics"
url="https://www.levien.com/libart/"
arch="all"
options="!check"  # No test suite.
license="LGPL-2.0-or-later"
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
 "

builddir="$srcdir"/libart_lgpl-$pkgver
```

```
prepare() {
 update_config_sub
 default_prepare
}

build() {
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr
 make
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7
6654309e001aee9bace727b5b4c8589405256a3c020  libart_lgpl-2.3.21.tar.bz2"
```

1.4700 gods 1.18.1

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1.4701 alpine-baselayout-data 3.6.8-r1

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```
# Automatically generated by apkbuild-cpan, template 1
# Contributor: Francesco Colista <francesco.colista@gmail.com>
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pkgname=perl-software-license
_pkgreal=Software-License
pkgver=0.103004
pkgrel=0
pkgdesc="packages that provide templated software licenses"
url="http://search.cpan.org/dist/Software-License/"
arch="noarch"
license="GPL PerlArtistic"
cpandepends="perl-text-template perl-data-section perl-sub-install"
cpanmakedepends="   "
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/R/RJ/RJBS/$_pkgreal-$pkgver.tar.gz"

_builddir="$srcdir/$_pkgreal-$pkgver"

prepare() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
```

```
 PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 make && make test
}

package() {
 cd "$_builddir"
 make
 DESTDIR="$pkgdir" install || return 1
 find "$pkgdir" \( -name perllocal.pod -o -name .packlist \) -delete
}

md5sums="0c5fd53d93818566234578b27d667b35  Software-License-0.103004.tar.gz"
```

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pkgrel=0

```
pkgdesc="Extension for flake8 which checks for copyrights"
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="flake8"
makedepends="python3-dev"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir"/$_pkgname-$pkgver

build() {
 cd "$builddir"
 python3 setup.py build || return 1
}

package() {
 cd "$builddir"
 python3 setup.py install --prefix=/usr --root="$pkgdir" || return 1
}

md5sums="c6348990c6d74933bf5d5f6a55a14bdf  flake8-copyright-0.2.0.tar.gz"
sha256sums="aeef26eb4d5223c9cd5b101e68175fcef6d2b353bf36da688fdde62fccfe2b73  flake8-copyright-
0.2.0.tar.gz"
sha512sums="bab1bfaeed3a525ac3c7da12b1f2ec338c204cc69b72d05cd39560e528faff5d586c3b1be9570f4a977a7e
2417b586e543bfba12abce256b2023c8c4993eeb90
  flake8-copyright-0.2.0.tar.gz"
```

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# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl

```
pkgver=2.3.21
pkgrel=5
pkgdesc="A library for high-performance 2D graphics"
url="http://www.levien.com/libart/"
arch="all"
license="LGPL"
depends=
makedepends=
subpackages="$pkgname-dev"
source="http://ftp.gnome.org/pub/GNOME/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
 "

_builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
 cd "$_builddir"
 update_config_sub || return 1
}
build() {
 cd "$_builddir"
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr \
  || return 1
 make || return 1
}

package() {
 cd "$_builddir"
 make DESTDIR="$pkgdir" install || return 1
}

md5sums="08559ff3c67fd95d57b0c5e91a6b4302  libart_lgpl-2.3.21.tar.bz2"
# Automatically generated by apkbuild-cpan, template 1
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Valery Kartel <valery.kartel@gmail.com>
pkgname=perl-bsd-resource
_pkgreal=BSD-Resource
pkgver=1.2909
pkgrel=1
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="http://search.cpan.org/dist/BSD-Resource/"
arch="all"
license="GPL PerlArtistic"
cpandepends=""
cpanmakedepends="   "
depends="$cpandepends"
```

```
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/J/JH/JHI/$_pkgreal-$pkgver.tar.gz"

_builddir="$srcdir/$_pkgreal-$pkgver"

prepare() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 make && make test || return 1
}

package() {
 cd "$_builddir"
 make DESTDIR="$pkgdir" install || return 1
 find "$pkgdir"
 \( -name perllocal.pod -o -name .packlist \) -delete
}

md5sums="3c6dd2fa953088aa87e263f40818d012  BSD-Resource-1.2909.tar.gz"
sha256sums="c47d460e2bd00d8d049f6ff4a0f1f61957e289e8de45af5fc79e851e2e855e06  BSD-Resource-
1.2909.tar.gz"
sha512sums="5f489eaac5089e82081b7cf51d62638750e443751b49415407354da96b17771819b5e6e85529faa41ddd
85743363750157943c7f7700276cce2bd40a429fa430  BSD-Resource-1.2909.tar.gz"
```

1.4702 azure-sdk-for-go-sdk-keyvault-azkeys 0.9.0

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1.4703 azure-sdk-for-go-sdk-keyvault-internal 0.7.0

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1.4706 otel-exporters-otlp-otlpmetric-otlpmetricgrpc 1.34.0

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1.4708 otel-exporters-otlp-otlptrace-otlptracegrpc 1.34.0

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1.4709 apache-http-server 2.4.52-1ubuntu4.13

1.4709.1 Available under license :


```
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        This file is generated from xml source: DO NOT EDIT
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<div class="up"><a href="./"><img title="&lt;-" alt="&lt;-" src="./images/left.gif" /></a></div>
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<div class="toplang">
<p><span>Available
```

Languages: en

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```
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*
*/
```

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For the server\util_md5.c component:

```
/**************************************************************************
* NCSA HTTPd Server
```

```
* Software Development Group
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* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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 *
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For the test\zb.c component:

```
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      ===============

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    Written by Adam Twiss (adam@zeus.co.uk).  March 1996

Thanks to the following people for their input:
 Mike Belshe (mbelshe@netscape.com)
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*/
```

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1.4711 github.com/elastic/lunes 0.1.0

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{{- range $i, $dep := . }}
{{ $dep.Name }},{{ $dep.URL }},{{ $dep.Version | canonicalVersion }},{{ $dep.Version | revision }},{{
$dep.LicenceType }},
{{- end -}}
{{- end -}}

name,url,version,revision,license,sourceURL{{ template "depInfo" .Direct }}{{ template "depInfo" .Indirect }}
```

{{- define "depInfo" -}}
{{- range $i, $dep := . }}
{{ "-" | line }}
Dependency : {{ $dep.Name }}
Version: {{ $dep.Version }}
Licence type (autodetected): {{ $dep.LicenceType }}
{{ "-" | line }}

{{ $dep | licenceText }}
{{ end }}
{{- end -}}

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{{ "=" | line }}
Third party libraries used by the Lunes Libraries:
{{ "=" | line }}

{{ template "depInfo" .Direct }}

{{ if .Indirect }}
{{ "=" | line }}
Indirect dependencies

{{ template "depInfo" .Indirect -}}
{{- end}}
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package mage

```
import (
 "fmt"
 "os"

 "github.com/magefile/mage/mg"

 "github.com/elastic/lunes/dev-tools/mage/gotool"
)

func GenerateNotice(overrides, rules, noticeTemplate string) error {
 mg.Deps(InstallGoNoticeGen,
 Deps.CheckModuleTidy)

 err := gotool.Mod.Download(gotool.Download.All())
 if err != nil {
  return fmt.Errorf("error while downloading dependencies: %w", err)
 }

 // Ensure the go.mod file is left unchanged after go mod download all runs.
 // go mod download will modify go.sum in a way that conflicts with go mod tidy.
 // https://github.com/golang/go/issues/43994#issuecomment-770053099
 defer gotool.Mod.Tidy() //nolint:errcheck // No value in handling this error.

 out, _ := gotool.ListDepsForNotice()
 depsFile, _ := os.CreateTemp("", "depsout")
 defer os.Remove(depsFile.Name())
 _, _ = depsFile.Write([]byte(out))
 depsFile.Close()

 generator := gotool.NoticeGenerator
 return generator(
  generator.Dependencies(depsFile.Name()),
  generator.IncludeIndirect(),
  generator.Overrides(overrides),
  generator.Rules(rules),
  generator.NoticeTemplate(noticeTemplate),
  generator.NoticeOutput("NOTICE.txt"),
 )
}
{
 "allowlist": [
   "Apache-2.0",
   "BSD",
   "BSD-2-Clause",
   "BSD-2-Clause-FreeBSD",
   "BSD-3-Clause",
   "CC0-1.0",
```

"Elastic",
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"MIT",
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Dependency : golang.org/x/tools
Version: v0.23.0
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==========
Indirect dependencies

Dependency : github.com/cyphar/filepath-securejoin
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Dependency : github.com/davecgh/go-spew
Version: v1.1.1
Licence type (autodetected): ISC

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Dependency : github.com/gobuffalo/here
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Dependency : github.com/google/licenseclassifier
Version: v0.0.0-20200402202327-879cb1424de0
Licence type (autodetected): Apache-2.0

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Dependency : github.com/sergi/go-diff
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 v0.0.0-20190717185122-a985d3407aa7
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1.4712 golang-org-x-exp 0.0.0-20241210194714-1829a127f884

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1.4714 github.com/leodido/go-syslog/v4 4.2.0

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1.4715 aws-sdk-go 1.55.5

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```
{
 "version": "2.0",
 "service": "<p>With License Manager, you can create user-based subscriptions to utilize licensed software with a per user subscription fee on Amazon EC2 instances.</p>",
 "operations": {
   "AssociateUser": "<p>Associates the user to an EC2 instance to utilize user-based subscriptions.</p> <note> <p>Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing. For more information, see <a href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p> </note>",
   "DeregisterIdentityProvider": "<p>Deregisters the identity provider from providing user-based subscriptions.</p>",
   "DisassociateUser": "<p>Disassociates the user from an EC2 instance providing user-based subscriptions.</p>",
   "ListIdentityProviders":
 "<p>Lists the identity providers for user-based subscriptions.</p>",
   "ListInstances": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
   "ListProductSubscriptions": "<p>Lists the user-based subscription products available from an identity provider.</p>",
   "ListUserAssociations": "<p>Lists user associations for an identity provider.</p>",
   "RegisterIdentityProvider": "<p>Registers an identity provider for user-based subscriptions.</p>",
   "StartProductSubscription": "<p>Starts a product subscription for a user with the specified identity provider.</p> <note> <p>Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing. For more information, see <a href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your monthly charges</a> in the <i>Amazon Web
 Services Billing User Guide</i>.</p> </note>",
   "StopProductSubscription": "<p>Stops a product subscription for a user with the specified identity provider.</p>",
   "UpdateIdentityProviderSettings": "<p>Updates additional product configuration settings for the registered identity provider.</p>"
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     "base": "<p>You don't have sufficient access to perform this action.</p>",
     "refs": {
     }
   },
   "ActiveDirectoryIdentityProvider": {
     "base": "<p>Details about an Active Directory identity provider.</p>",
     "refs": {
       "IdentityProvider$ActiveDirectoryIdentityProvider": "<p>An object that details an Active Directory identity provider.</p>"
     }
   },
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"base": null,
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"AssociateUserResponse": {
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"ListIdentityProvidersRequest$MaxResults":
" Maximum number of results to return in a single call. ",
"ListInstancesRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListProductSubscriptionsRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListUserAssociationsRequest$MaxResults": " Maximum number of results to return in a single call. "
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"ConflictException": {
"base": " The request couldn't be completed because it conflicted with the current state of the resource. ",
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"DeregisterIdentityProviderRequest": {
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"refs": {
}
},
"Filter": {
"base": " A

filter name and value pair that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs. ",
    "refs": {
      "FilterList$member": null
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  "FilterList": {
    "base": null,
    "refs": {
      "ListInstancesRequest$Filters": " An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify. ",
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    "base": " Details about an identity provider. ",
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      "IdentityProviderSummary$IdentityProvider": " An object that specifies details for the identity provider. ",
      "InstanceUserSummary$IdentityProvider": " An object that specifies details for the identity provider. ",
      "ListProductSubscriptionsRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
      "ListUserAssociationsRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
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      "RegisterIdentityProviderRequest$IdentityProvider":
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"refs": {
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"refs": {
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"DisassociateUserResponse$InstanceUserSummary": " Metadata that describes the associate user operation. ",

"InstanceUserSummaryList$member": null
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"InstanceUserSummaryList": {
"base": null,
"refs": {
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"base": " An exception occurred with the service. ",
"refs": {
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"refs": {
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},
"ListIdentityProvidersResponse": {
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"ListUserAssociationsResponse": {
"base": null,
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},
"ProductUserSummary": {
"base": " The summary of the user-based subscription products for a user. ",
"refs": {
"ProductUserSummaryList$member": null,
"StartProductSubscriptionResponse$ProductUserSummary": " Metadata that describes the start product subscription operation. ",
"StopProductSubscriptionResponse$ProductUserSummary": " Metadata that describes the start product subscription operation. "

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},
"ProductUserSummaryList": {
"base": null,
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},
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"RegisterIdentityProviderResponse": {
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}
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"base": " The resource couldn't be found. ",
"refs": {
}
},
"SecurityGroup": {
"base": null,
"refs": {
"Settings$SecurityGroupId": " A security group ID that allows inbound TCP port 1688 communication between resources in your VPC and the VPC endpoint for activation servers. ",
"UpdateSettings$SecurityGroupId": " A security group ID that allows inbound TCP port 1688 communication between resources in your VPC and the VPC endpoints for activation servers. "
}
},
"ServiceQuotaExceededException": {
"base": " The request failed because a service quota is exceeded. ",
"refs": {
}
},
"Settings": {
"base": " The registered identity providers product related configuration settings such as the subnets to provision VPC endpoints, and the security group ID that is associated with the VPC endpoints. The security group should permit inbound TCP port 1688 communication
from resources in the VPC. ",
"refs": {
"IdentityProviderSummary$Settings": " An object that details the registered identity providers product related configuration settings such as the subnets to provision VPC endpoints. ",
"RegisterIdentityProviderRequest$Settings": " The registered identity providers product related

configuration settings such as the subnets to provision VPC endpoints. "
    }
  },
  "SettingsSubnetsList": {
    "base": null,
    "refs": {
      "Settings$Subnets": " The subnets defined for the registered identity provider. "
    }
  },
  "StartProductSubscriptionRequest": {
    "base": null,
    "refs": {
    }
  },
  "StartProductSubscriptionResponse": {
    "base": null,
    "refs": {
    }
  },
  "StopProductSubscriptionRequest": {
    "base": null,
    "refs": {
    }
  },
  "StopProductSubscriptionResponse": {
    "base": null,
    "refs": {
    }
  },
  "String":
 {
    "base": null,
    "refs": {
      "AccessDeniedException$message": null,
      "ActiveDirectoryIdentityProvider$DirectoryId": " The directory ID for an Active Directory identity provider. ",
      "AssociateUserRequest$Domain": " The domain name of the user. ",
      "AssociateUserRequest$InstanceId": " The ID of the EC2 instance, which provides user-based subscriptions. ",
      "AssociateUserRequest$Username": " The user name from the identity provider for the user. ",
      "ConflictException$message": null,
      "DeregisterIdentityProviderRequest$Product": " The name of the user-based subscription product. ",
      "DisassociateUserRequest$Domain": " The domain name of the user. ",
      "DisassociateUserRequest$InstanceId": " The ID of the EC2 instance, which provides user-based subscriptions. ",
      "DisassociateUserRequest$Username": " The user name from the identity provider for the user. ",

"Filter$Attribute": " The name of an attribute to use as a filter. ",
"Filter$Operation": " The type of search (For example, eq, geq, leq) ",
"Filter$Value": " Value of the filter. ",
"IdentityProviderSummary$FailureMessage": " The failure message associated with an identity provider. ",
"IdentityProviderSummary$Product": " The name of the user-based subscription product. ",
"IdentityProviderSummary$Status": " The status of an identity provider. ",
"InstanceSummary$InstanceId": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"InstanceSummary$LastStatusCheckDate": " The date of the last status check. ",
"InstanceSummary$Status": " The status of an EC2 instance resource. ",
"InstanceSummary$StatusMessage": " The status message for an EC2 instance. ",
"InstanceUserSummary$AssociationDate": " The date a user was associated with an EC2 instance. ",
"InstanceUserSummary$DisassociationDate": " The date a user was disassociated from an EC2 instance. ",
"InstanceUserSummary$Domain": " The domain name of the user. ",
"InstanceUserSummary$InstanceId": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"InstanceUserSummary$Status": " The status of a user associated with an EC2 instance. ",
"InstanceUserSummary$StatusMessage": " The status message for users of an EC2 instance. ",
"InstanceUserSummary$Username": " The user name from the identity provider for the user. ",
"InternalServerException$message": null,
"ListIdentityProvidersRequest$NextToken": " Token for the next set of results. ",
"ListIdentityProvidersResponse$NextToken": " Token for the next set of results. ",
"ListInstancesRequest$NextToken": " Token for the next set of results. ",
"ListInstancesResponse$NextToken": " Token for the next set of results. ",
"ListProductSubscriptionsRequest$NextToken": " Token for the next set of results. ",
"ListProductSubscriptionsRequest$Product": " The name of the user-based subscription product. ",
"ListProductSubscriptionsResponse$NextToken": " Token for the next set of results. ",
"ListUserAssociationsRequest$InstanceId": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"ListUserAssociationsRequest$NextToken": " Token for the next set of results. ",
"ListUserAssociationsResponse$NextToken": " Token for the next set of results. ",
"ProductUserSummary$Domain": " The domain name of the user. ",
"ProductUserSummary$Product": " The name of the user-based subscription product. ",
"ProductUserSummary$Status": " The status of a product for a user. ",
"ProductUserSummary$StatusMessage": " The status message for a product for a user. ",
"ProductUserSummary$SubscriptionEndDate": " The end date of a subscription. ",
"ProductUserSummary$SubscriptionStartDate": " The start date of a subscription. ",
"ProductUserSummary$Username": " The user name from the identity provider of the user. ",
"RegisterIdentityProviderRequest$Product": " The name of the user-based subscription product. ",
"ResourceNotFoundException$message": null,
"ServiceQuotaExceededException$message": null,
"StartProductSubscriptionRequest$Domain": " The domain name of the user. ",
"StartProductSubscriptionRequest$Product": " The name of the user-based subscription product. ",

"StartProductSubscriptionRequest$Username": " The user name from the identity provider of the user. ",
"StopProductSubscriptionRequest$Domain": " The domain name of the user. ",
"StopProductSubscriptionRequest$Product": " The name of the user-based subscription product. ",
"StopProductSubscriptionRequest$Username": " The user name from the identity provider for the user. ",
"StringList$member": null,
"ThrottlingException$message": null,
"UpdateIdentityProviderSettingsRequest$Product": " The name of the user-based subscription product. ",
"ValidationException$message": null
}
},
"StringList": {
"base": null,
"refs": {
"InstanceSummary$Products": " A list of provided user-based subscription products. "
}
},
"Subnet": {
"base": null,
"refs": {
"SettingsSubnetsList$member": null,
"Subnets$member": null
}
},
"Subnets": {
"base": null,
"refs": {
"UpdateSettings$AddSubnets": " The ID of one or more subnets in which License Manager will create a VPC endpoint for products that require connectivity to activation servers. ",
"UpdateSettings$RemoveSubnets": " The ID of one or more subnets to remove. "
}
},
"ThrottlingException": {
"base": " The request was denied because of request throttling. Retry the request. ",
"refs": {
}
},
"UpdateIdentityProviderSettingsRequest": {
"base": null,
"refs": {
}
},
"UpdateIdentityProviderSettingsResponse": {
"base": null,
"refs": {

```
    }
  },
  "UpdateSettings": {
    "base": "<p>Updates the registered identity providers product related configuration settings such as the subnets to provision VPC endpoints.</p>",
    "refs": {
      "UpdateIdentityProviderSettingsRequest$UpdateSettings": "<p>Updates the registered identity providers product related configuration settings. You can update any combination of settings in a single operation such as the:</p> <ul> <li> <p>Subnets which you want to add to provision VPC endpoints.</p> </li> <li> <p>Subnets which you want to remove the VPC endpoints
 from.</p> </li> <li> <p>Security group ID which permits traffic to the VPC endpoints.</p> </li> </ul>"
    }
  },
  "ValidationException": {
    "base": "<p>A parameter is not valid.</p>",
    "refs": {
    }
  }
 }
}
{
  "version": "1.0",
  "parameters": {
    "Region": {
      "builtIn": "AWS::Region",
      "required": false,
      "documentation": "The AWS region used to dispatch the request.",
      "type": "String"
    },
    "UseDualStack": {
      "builtIn": "AWS::UseDualStack",
      "required": true,
      "default": false,
      "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
      "type": "Boolean"
    },
    "UseFIPS": {
      "builtIn": "AWS::UseFIPS",
      "required": true,
      "default": false,
      "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
      "type": "Boolean"
    },
    "Endpoint": {
```

```
  "builtIn": "SDK::Endpoint",
        "required": false,
        "documentation": "Override the endpoint used to send this request",
        "type": "String"
    }
},
"rules": [
    {
        "conditions": [
            {
                "fn": "aws.partition",
                "argv": [
                    {
                        "ref": "Region"
                    }
                ],
                "assign": "PartitionResult"
            }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "isSet",
                        "argv": [
                            {
                                "ref": "Endpoint"
                            }
                        ]
                    },
                    {
                        "fn": "parseURL",

                      "argv": [
                            {
                                "ref": "Endpoint"
                            }
                        ],
                        "assign": "url"
                    }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [
                            {
                                "fn": "booleanEquals",
```

```
                "argv": [
                  {
                    "ref": "UseFIPS"
                  },
                  true
                ]
              }
            ],
            "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
            "type": "error"
          },
          {
            "conditions": [],
            "type": "tree",
            "rules": [
              {
                "conditions": [
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseDualStack"
                      },
                      true
                    ]
                  }
                ],
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                "type": "error"
              },

          {
                "conditions": [],
                "endpoint": {
                  "url": {
                    "ref": "Endpoint"
                  },
                  "properties": {},
                  "headers": {}
                },
                "type": "endpoint"
              }
            ]
          }
        ]
      },
      {
        "conditions": [
```

```
            {
              "fn": "booleanEquals",
              "argv": [
                {
                  "ref": "UseFIPS"
                },
                true
              ]

},
            {
              "fn": "booleanEquals",
              "argv": [
                {
                  "ref": "UseDualStack"
                },
                true
              ]
            }
          ],
          "type": "tree",
          "rules": [
            {
              "conditions": [
                {
                  "fn": "booleanEquals",
                  "argv": [
                    true,
                    {
                      "fn": "getAttr",
                      "argv": [
                        {
                          "ref": "PartitionResult"

},
                        "supportsFIPS"
                      ]
                    }
                  ]
                },
                {
                  "fn": "booleanEquals",
                  "argv": [
                    true,
                    {
                      "fn": "getAttr",
                      "argv": [
                        {
```

```
                    "ref": "PartitionResult"
                },
                "supportsDualStack"
            ]
        }
    ]
}

],
"type": "tree",
"rules": [
    {
        "conditions": [],
        "endpoint": {
            "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
            "properties": {},
            "headers": {}
        },
        "type": "endpoint"
    }
]
},
{
    "conditions": [],
    "error": "FIPS and DualStack are enabled, but this partition does not support one or both",
    "type": "error"
}
]
},

{
    "conditions": [
        {
            "fn": "booleanEquals",
            "argv": [
                {
                    "ref": "UseFIPS"
                },
                true
            ]
        }
    ],
    "type": "tree",
    "rules": [
        {
            "conditions": [
                {
```

```
                "fn": "booleanEquals",
                "argv": [
                  true,
                  {
                    "fn": "getAttr",
                    "argv": [
                      {
                        "ref": "PartitionResult"
                      },
                      "supportsFIPS"
                    ]
                  }
                ]
              }
            ],
            "type": "tree",
            "rules": [
              {
                "conditions": [],
                "endpoint": {
                  "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                  "properties": {},
                  "headers": {}
                },
                "type": "endpoint"
              }
            ]
          },
          {

        "conditions": [],
            "error": "FIPS is enabled but this partition does not support FIPS",
            "type": "error"
          }
        ]
        },
        {
          "conditions": [
            {
              "fn": "booleanEquals",
              "argv": [
                {
                  "ref": "UseDualStack"
                },
                true
              ]
            }
```

```
        ],
        "type": "tree",
        "rules": [
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  true,

    {
                  "fn": "getAttr",
                  "argv": [
                    {
                      "ref": "PartitionResult"
                    },
                    "supportsDualStack"
                  ]
                }
              ]
            }
          ],
          "type": "tree",
          "rules": [
            {
              "conditions": [],
              "endpoint": {
                "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                "properties": {},

          "headers": {}
              },
              "type": "endpoint"
            }
          ]
        },
        {
          "conditions": [],
          "error": "DualStack is enabled but this partition does not support DualStack",
          "type": "error"
        }
      ]
    },
    {
      "conditions": [],
      "endpoint": {
        "url": "https://license-manager-user-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
```

"properties": {},
"headers": {}
},
"type": "endpoint"
}
]
}
]
}
{
"version": "2.0",
"service": " With License Manager, you can discover and track your commercial Linux subscriptions on running Amazon EC2 instances. ",
"operations": {
"DeregisterSubscriptionProvider": " Remove a third-party subscription provider from the Bring Your Own License (BYOL) subscriptions registered to your account. ",
"GetRegisteredSubscriptionProvider": " Get details for a Bring Your Own License (BYOL) subscription that's registered to your account. ",
"GetServiceSettings": " Lists the Linux subscriptions service settings for your account. ",
"ListLinuxSubscriptionInstances": " Lists the running Amazon EC2 instances that were discovered with commercial Linux subscriptions. ",
"ListLinuxSubscriptions": " Lists the Linux subscriptions that have been discovered. If you have linked your organization, the returned results will include data aggregated across your accounts in Organizations. ",
"ListRegisteredSubscriptionProviders":
" List Bring Your Own License (BYOL) subscription registration resources for your account. ",
"ListTagsForResource": " List the metadata tags that are assigned to the specified Amazon Web Services resource. ",
"RegisterSubscriptionProvider": " Register the supported third-party subscription provider for your Bring Your Own License (BYOL) subscription. ",
"TagResource": " Add metadata tags to the specified Amazon Web Services resource. ",
"UntagResource": " Remove one or more metadata tag from the specified Amazon Web Services resource. ",
"UpdateServiceSettings": " Updates the service settings for Linux subscriptions. "
},
"shapes": {
"Boolean": {
"base": null,
"refs": {
"UpdateServiceSettingsRequest$AllowUpdate": " Describes if updates are allowed to the service settings for Linux subscriptions. If you allow updates, you can aggregate Linux subscription data in more than one home Region. "
}
},
"BoxInteger": {
"base": null,
"refs": {
"ListLinuxSubscriptionInstancesRequest$MaxResults": " The maximum items to return in a request. ",
"ListLinuxSubscriptionsRequest$MaxResults": " The maximum items to return in a request. "

```
    }
  },
  "BoxLong": {
    "base": null,
    "refs": {
      "Subscription$InstanceCount": "<p>The total amount of running instances using this subscription.</p>"
    }
  },
  "DeregisterSubscriptionProviderRequest": {
    "base": null,
    "refs": {
    }
  },
  "DeregisterSubscriptionProviderResponse": {
    "base": null,
    "refs": {
    }
  },
  "Filter": {
    "base": "<p>A filter object that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria.</p>",
    "refs": {
      "FilterList$member": null
    }
  },
  "FilterList": {
    "base": null,
    "refs": {

  "ListLinuxSubscriptionInstancesRequest$Filters": "<p>An array of structures that you can use to filter the results by your specified criteria. For example, you can specify <code>Region</code> in the <code>Name</code>, with the <code>contains</code> operator to list all subscriptions that match a partial string in the <code>Value</code>, such as <code>us-west</code>.</p> <p>For each filter, you can specify one of the following values for the <code>Name</code> key to streamline results:</p> <ul> <li> <p> <code>AccountID</code> </p> </li> <li> <p> <code>AmiID</code> </p> </li> <li> <p> <code>DualSubscription</code> </p> </li> <li> <p> <code>InstanceID</code> </p> </li> <li> <p> <code>InstanceType</code> </p> </li> <li> <p> <code>ProductCode</code> </p> </li> <li> <p> <code>Region</code> </p> </li> <li> <p> <code>Status</code> </p> </li> <li> <p> <code>UsageOperation</code> </p> </li> </ul> <p>For each filter, you can use one of the following <code>Operator</code> values to define the behavior
 of the filter:</p> <ul> <li> <p> <code>contains</code> </p> </li> <li> <p> <code>equals</code> </p> </li> <li> <p> <code>Notequal</code> </p> </li> </ul>",
      "ListLinuxSubscriptionsRequest$Filters": "<p>An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify. For example, you can filter by the name of <code>Subscription</code> with an optional operator to see subscriptions that match, partially match, or don't match a certain subscription's name.</p> <p>The valid names for this filter are:</p> <ul> <li> <p> <code>Subscription</code> </p> </li> </ul> <p>The valid Operators for this filter are:</p> <ul> <li> <p> <code>contains</code> </p> </li> <li> <p> <code>equals</code> </p> </li> <li> <p> <code>Notequal</code> </p> </li> </ul>"
```

```
    }
  },
  "GetRegisteredSubscriptionProviderRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetRegisteredSubscriptionProviderResponse": {
     "base": null,
    "refs": {
    }
  },
  "GetServiceSettingsRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetServiceSettingsResponse": {
    "base": null,
    "refs": {
    }
  },
  "Instance": {
    "base": "<p>Details discovered information about a running instance using Linux subscriptions.</p>",
    "refs": {
      "InstanceList$member": null
    }
  },
  "InstanceList": {
    "base": null,
    "refs": {
      "ListLinuxSubscriptionInstancesResponse$Instances": "<p>An array that contains instance objects.</p>"
    }
  },
  "InternalServerException": {
    "base": "<p>An exception occurred with the service.</p>",
    "refs": {
    }
  },
  "LinuxSubscriptionsDiscovery": {
    "base": null,
    "refs": {
      "GetServiceSettingsResponse$LinuxSubscriptionsDiscovery": "<p>Lists if discovery has been enabled for
Linux subscriptions.</p>",
      "UpdateServiceSettingsRequest$LinuxSubscriptionsDiscovery":
 "<p>Describes if the discovery of Linux subscriptions is enabled.</p>",
      "UpdateServiceSettingsResponse$LinuxSubscriptionsDiscovery": "<p>Lists if discovery has been enabled for
Linux subscriptions.</p>"
```

}
},
"LinuxSubscriptionsDiscoverySettings": {
"base": " Lists the settings defined for discovering Linux subscriptions. ",
"refs": {
"GetServiceSettingsResponse$LinuxSubscriptionsDiscoverySettings": " Lists the settings defined for Linux subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data will be aggregated from. ",
"UpdateServiceSettingsRequest$LinuxSubscriptionsDiscoverySettings": " The settings defined for Linux subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data will be aggregated from. ",
"UpdateServiceSettingsResponse$LinuxSubscriptionsDiscoverySettings": " The settings defined for Linux subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data will be aggregated from. "
}
},
"ListLinuxSubscriptionInstancesRequest": {
"base": " NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in request increases. ",
"refs": {
}
},
"ListLinuxSubscriptionInstancesRequestNextTokenString": {
"base": null,
"refs": {
"ListLinuxSubscriptionInstancesRequest$NextToken": " A token to specify where to start paginating. This is the nextToken from a previously truncated response. "
}
},
"ListLinuxSubscriptionInstancesResponse": {
"base": null,
"refs": {
}
},
"ListLinuxSubscriptionsRequest": {
"base": " NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in request increases. ",
"refs": {
}
},
"ListLinuxSubscriptionsRequestNextTokenString":
{
"base": null,
"refs": {
"ListLinuxSubscriptionsRequest$NextToken": " A token to specify where to start paginating. This is the nextToken from a previously truncated response. "
}
},

"ListLinuxSubscriptionsResponse": {
"base": null,
"refs": {
}
},
"ListRegisteredSubscriptionProvidersRequest": {
"base": null,
"refs": {
}
},
"ListRegisteredSubscriptionProvidersRequestMaxResultsInteger": {
"base": null,
"refs": {
"ListRegisteredSubscriptionProvidersRequest$MaxResults": " The maximum items to return in a request. "
}
},
"ListRegisteredSubscriptionProvidersResponse": {
"base": null,
"refs": {
}
},
"ListTagsForResourceRequest": {
"base": null,
"refs": {
}
},
"ListTagsForResourceResponse": {
"base": null,
"refs": {
}
},
"Operator": {
"base": null,
"refs":
{
"Filter$Operator": " An operator for filtering results. "
}
},
"OrganizationIntegration": {
"base": null,
"refs": {
"LinuxSubscriptionsDiscoverySettings$OrganizationIntegration": " Details if you have enabled resource discovery across your accounts in Organizations. "
}
},
"ProductCodeList": {
"base": null,

"refs": {
"Instance$ProductCode": " The product code for the instance. For more information, see Usage operation values in the License Manager User Guide . "
}
},
"RegisterSubscriptionProviderRequest": {
"base": null,
"refs": {
}
},
"RegisterSubscriptionProviderResponse": {
"base": null,
"refs": {
}
},
"RegisteredSubscriptionProvider": {
"base": " A third-party provider for operating system (OS) platform software and license subscriptions, such as Red Hat. When you register a third-party Linux subscription provider, License Manager can get subscription data from the registered provider. ",
"refs": {
"RegisteredSubscriptionProviderList$member": null
}
},
"RegisteredSubscriptionProviderList": {
"base": null,
"refs": {
"ListRegisteredSubscriptionProvidersResponse$RegisteredSubscriptionProviders": " The list of BYOL registration resources that fit the criteria you specified in the request. "
}
},
"ResourceNotFoundException": {
"base": " Unable to find the requested Amazon Web Services resource. ",
"refs": {
}
},
"SecretArn": {
"base": null,
"refs": {
"GetRegisteredSubscriptionProviderResponse$SecretArn": " The Amazon Resource Name (ARN) of the third-party access secret stored in Secrets Manager for the BYOL registration resource specified in the request. ",
"RegisterSubscriptionProviderRequest$SecretArn": " The Amazon Resource Name (ARN) of the secret where you've stored your subscription provider's access token. For RHEL subscriptions managed through the Red Hat Subscription Manager (RHSM), the secret contains your Red Hat Offline token. ",
"RegisteredSubscriptionProvider$SecretArn": " The Amazon Resource Name (ARN) of the Secrets Manager secret that stores your registered Linux subscription provider access token. For RHEL account subscriptions, this is the offline token. "

}
},
"Status": {
"base": null,
"refs": {
"GetServiceSettingsResponse$Status": " Indicates the status of Linux subscriptions settings being applied. ",
"UpdateServiceSettingsResponse$Status": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"String": {
"base": null,
"refs": {
"Filter$Name": " The type of name to filter by. ",
"GetRegisteredSubscriptionProviderResponse$LastSuccessfulDataRetrievalTime": " The timestamp from the last time License Manager retrieved subscription details from your registered third-party Linux subscription provider. ",
"GetRegisteredSubscriptionProviderResponse$SubscriptionProviderStatusMessage": " The detailed message from your subscription provider token status. ",
"Instance$AccountID": " The account ID which owns the instance. ",
"Instance$AmiId": " The AMI ID used to launch the instance. ",
"Instance$DualSubscription": " Indicates that you have two different license subscriptions for the same software on your instance. ",
"Instance$InstanceID": " The instance ID of the resource. ",
"Instance$InstanceType": " The instance type of the resource. ",
"Instance$LastUpdatedTime": " The time in which the last discovery updated the instance details. ",
"Instance$OsVersion": " The operating system software version that runs on your instance. ",
"Instance$Region": " The Region the instance is running in. ",
"Instance$RegisteredWithSubscriptionProvider": " Indicates that your instance uses a BYOL license subscription from a third-party Linux subscription provider that you've registered with License Manager. ",
"Instance$Status": " The status of the instance. ",
"Instance$SubscriptionName": " The name of the license subscription that the instance uses. ",
"Instance$SubscriptionProviderCreateTime": " The timestamp when you registered the third-party Linux subscription provider for the subscription that the instance uses. ",
"Instance$SubscriptionProviderUpdateTime": " The timestamp from the last time that the instance synced with the registered third-party Linux subscription provider. ",
"Instance$UsageOperation": " The usage operation of the instance. For more information, see For more information, see Usage operation values in the License Manager User Guide. ",
"InternalServerException$message": null,
"ListLinuxSubscriptionInstancesResponse$NextToken": " The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. ",
"ListLinuxSubscriptionsResponse$NextToken": " The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the

next request to retrieve additional objects. ",
"ListRegisteredSubscriptionProvidersRequest$NextToken": " A token to specify where to start paginating. This is the nextToken from a
previously truncated response. ",
"ListRegisteredSubscriptionProvidersResponse$NextToken": " The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. ",
"ProductCodeList$member": null,
"RegisterSubscriptionProviderResponse$SubscriptionProviderArn": " The Amazon Resource Name (ARN) of the Linux subscription provider resource that you registered. ",
"RegisteredSubscriptionProvider$LastSuccessfulDataRetrievalTime": " The timestamp from the last time that License Manager accessed third-party subscription data for your account from your registered Linux subscription provider. ",
"RegisteredSubscriptionProvider$SubscriptionProviderStatusMessage": " A detailed message that's associated with your BYOL subscription provider token status. ",
"ResourceNotFoundException$message":
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"StringMap$key": null,
"StringMap$value": null,
"Subscription$Name": " The name of the subscription. ",
"Subscription$Type": " The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS. ",
"TagKeyList$member": null,
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"Tags$value": null,
"ThrottlingException$message": null,
"ValidationException$message": null
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"StringList": {
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"Filter$Values": " One or more values for the name to filter by. ",
"GetServiceSettingsResponse$HomeRegions": " The Region in which License Manager displays the aggregated data for Linux subscriptions. ",
"LinuxSubscriptionsDiscoverySettings$SourceRegions":
" The Regions in which to discover data for Linux subscriptions. ",
"UpdateServiceSettingsResponse$HomeRegions": " The Region in which License Manager displays the aggregated data for Linux subscriptions. "
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"UpdateServiceSettingsResponse$StatusMessage": " A message which details the Linux subscriptions service settings current status. "
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"refs": {
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"DeregisterSubscriptionProviderRequest$SubscriptionProviderArn": " The Amazon Resource Name (ARN) of the subscription provider resource to deregister. ",
"GetRegisteredSubscriptionProviderRequest$SubscriptionProviderArn": " The Amazon Resource Name (ARN) of the BYOL registration resource to get details for. ",
"GetRegisteredSubscriptionProviderResponse$SubscriptionProviderArn": " The Amazon Resource Name (ARN) for the BYOL registration resource specified in the request. ",
"ListTagsForResourceRequest$resourceArn": " The Amazon Resource Name (ARN) of the resource for which to list metadata tags. ",
"RegisteredSubscriptionProvider$SubscriptionProviderArn": " The Amazon Resource Name (ARN) of the Linux subscription provider resource that you registered. ",
"TagResourceRequest$resourceArn": " The Amazon Resource Name (ARN) of the Amazon Web Services resource to which to add the specified metadata tags. ",
"UntagResourceRequest$resourceArn": " The Amazon Resource Name (ARN) of the Amazon Web Services resource to remove the metadata tags from. "
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"GetRegisteredSubscriptionProviderResponse$SubscriptionProviderSource": " The subscription provider for the BYOL registration resource specified in the request. ",
"RegisterSubscriptionProviderRequest$SubscriptionProviderSource": " The supported Linux subscription

provider to register. ",
"RegisterSubscriptionProviderResponse$SubscriptionProviderSource": " The Linux subscription provider that you registered. ",
"RegisteredSubscriptionProvider$SubscriptionProviderSource": " A supported third-party Linux subscription provider. License
Manager currently supports Red Hat subscriptions. ",
"SubscriptionProviderSourceList$member": null
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"SubscriptionProviderSourceList": {
"base": null,
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"RegisterSubscriptionProviderResponse$SubscriptionProviderStatus": " Indicates the status of the registration action for the Linux subscription provider that you requested. ",
"RegisteredSubscriptionProvider$SubscriptionProviderStatus": " Indicates the status of your registered Linux subscription provider access
token from the last time License Manager retrieved subscription data. For RHEL account subscriptions, this is the status of the offline token. "
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"refs": {
"ListTagsForResourceResponse$tags": " The metadata tags for the requested resource. ",
"RegisterSubscriptionProviderRequest$Tags": " The metadata tags to assign to your registered Linux subscription provider resource. ",
"TagResourceRequest$tags": " The metadata tags to assign to the Amazon Web Services resource. Tags are formatted as key value pairs. "
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"refs": {
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"UpdateServiceSettingsResponse": {
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"ValidationException": {
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"refs": {
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AWS SDK for Go
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]
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{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
]
},
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  "output":{"shape":"ListFailuresForLicenseConfigurationOperationsResponse"},
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    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
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    {"shape":"ServerInternalException"},
    {"shape":"FilterLimitExceededException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
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  "output":{"shape":"ListLicenseConversionTasksResponse"},
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    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
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{"shape":"RateLimitExceededException"},
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{"shape":"ResourceNotFoundException"}
]
},
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{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
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},
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"output":{"shape":"ListLicenseVersionsResponse"},
"errors":[
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{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ServerInternalException"}

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  ]
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  "http":{
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    "requestUri":"/"
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  "input":{"shape":"ListLicensesRequest"},
  "output":{"shape":"ListLicensesResponse"},
  "errors":[
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    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
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  "output":{"shape":"ListReceivedGrantsResponse"},
  "errors":[
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    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
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"ListReceivedGrantsForOrganization":{
  "name":"ListReceivedGrantsForOrganization",
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  "output":{"shape":"ListReceivedGrantsForOrganizationResponse"},
  "errors":[
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{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
]
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"output":{"shape":"ListReceivedLicensesResponse"},
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{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
]
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"output":{"shape":"ListReceivedLicensesForOrganizationResponse"},
"errors":[
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{"shape":"ResourceLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
]
},
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},
"input":{"shape":"ListResourceInventoryRequest"},
"output":{"shape":"ListResourceInventoryResponse"},
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{"shape":"ServerInternalException"},
{"shape":"FilterLimitExceededException"},
{"shape":"FailedDependencyException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
]
},
"ListTagsForResource":{
"name":"ListTagsForResource",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListTagsForResourceRequest"},
"output":{"shape":"ListTagsForResourceResponse"},
"errors":[
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{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
]
},
"ListTokens":{
"name":"ListTokens",
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"output":{"shape":"ListTokensResponse"},
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{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ServerInternalException"}
]
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"input":{"shape":"ListUsageForLicenseConfigurationRequest"},
"output":{"shape":"ListUsageForLicenseConfigurationResponse"},
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{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
]
},
"RejectGrant":{
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"output":{"shape":"RejectGrantResponse"},
"errors":[
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{"shape":"InvalidParameterValueException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ResourceLimitExceededException"},
{"shape":"ServerInternalException"}
]
},
"TagResource":{
"name":"TagResource",
"http":{
"method":"POST",
"requestUri":"/"
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"output":{"shape":"TagResourceResponse"},
"errors":[
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{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}

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    ]
  },
  "UntagResource":{
    "name":"UntagResource",
    "http":{
      "method":"POST",
      "requestUri":"/"
    },
    "input":{"shape":"UntagResourceRequest"},
    "output":{"shape":"UntagResourceResponse"},
    "errors":[
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      {"shape":"ServerInternalException"},
      {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
      {"shape":"RateLimitExceededException"}
    ]
  },
  "UpdateLicenseConfiguration":{
    "name":"UpdateLicenseConfiguration",
    "http":{
      "method":"POST",
      "requestUri":"/"
    },
    "input":{"shape":"UpdateLicenseConfigurationRequest"},
    "output":{"shape":"UpdateLicenseConfigurationResponse"},
    "errors":[
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      {"shape":"ServerInternalException"},
      {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
       {"shape":"RateLimitExceededException"},
      {"shape":"ResourceLimitExceededException"}
    ]
  },
  "UpdateLicenseManagerReportGenerator":{
    "name":"UpdateLicenseManagerReportGenerator",
    "http":{
      "method":"POST",
      "requestUri":"/"
    },
    "input":{"shape":"UpdateLicenseManagerReportGeneratorRequest"},
    "output":{"shape":"UpdateLicenseManagerReportGeneratorResponse"},
    "errors":[
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      {"shape":"InvalidParameterValueException"},
      {"shape":"RateLimitExceededException"},
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{"shape":"ResourceNotFoundException"},
{"shape":"ResourceLimitExceededException"}
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},
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"http":{
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"requestUri":"/"

},
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"output":{"shape":"UpdateLicenseSpecificationsForResourceResponse"},
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{"shape":"InvalidResourceStateException"},
{"shape":"LicenseUsageException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
]
},
"UpdateServiceSettings":{
"name":"UpdateServiceSettings",
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"method":"POST",
"requestUri":"/"
},
"input":{"shape":"UpdateServiceSettingsRequest"},
"output":{"shape":"UpdateServiceSettingsResponse"},
"errors":[
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{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
]
}
},
"shapes":{
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"required":["GrantArn"],
"members":{
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```
    }
  },
  "AcceptGrantResponse":{
    "type":"structure",
    "members":{
      "GrantArn":{"shape":"Arn"},
      "Status":{"shape":"GrantStatus"},
      "Version":{"shape":"String"}
    }
  },
  "AccessDeniedException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    },
    "exception":true
  },
  "ActivationOverrideBehavior":{
    "type":"string",
    "enum":[
      "DISTRIBUTED_GRANTS_ONLY",
      "ALL_GRANTS_PERMITTED_BY_ISSUER"
    ]
  },
  "AllowedOperation":{
    "type":"string",
    "enum":[
      "CreateGrant",
      "CheckoutLicense",
      "CheckoutBorrowLicense",
      "CheckInLicense",
      "ExtendConsumptionLicense",
      "ListPurchasedLicenses",
      "CreateToken"
    ]
  },
  "AllowedOperationList":{
     "type":"list",
    "member":{"shape":"AllowedOperation"},
    "max":7,
    "min":1
  },
  "Arn":{
    "type":"string",
    "max":2048,
    "pattern":"^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
  },
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"ArnList":{
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  "member":{"shape":"Arn"}
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"AuthorizationException":{
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  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"AutomatedDiscoveryInformation":{
  "type":"structure",
  "members":{
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  }
},
"Boolean":{"type":"boolean"},
"BorrowConfiguration":{
  "type":"structure",
  "required":[
    "AllowEarlyCheckIn",
    "MaxTimeToLiveInMinutes"
  ],
  "members":{
    "AllowEarlyCheckIn":{"shape":"BoxBoolean"},
    "MaxTimeToLiveInMinutes":{"shape":"BoxInteger"}
   }
},
"BoxBoolean":{"type":"boolean"},
"BoxInteger":{"type":"integer"},
"BoxLong":{"type":"long"},
"CheckInLicenseRequest":{
  "type":"structure",
  "required":["LicenseConsumptionToken"],
  "members":{
    "LicenseConsumptionToken":{"shape":"String"},
    "Beneficiary":{"shape":"String"}
  }
},
"CheckInLicenseResponse":{
  "type":"structure",
  "members":{
  }
},
"CheckoutBorrowLicenseRequest":{
  "type":"structure",
  "required":[

"LicenseArn",
"Entitlements",
"DigitalSignatureMethod",
"ClientToken"
],
"members":{
"LicenseArn":{"shape":"Arn"},
"Entitlements":{"shape":"EntitlementDataList"},
"DigitalSignatureMethod":{"shape":"DigitalSignatureMethod"},
"NodeId":{"shape":"String"},
"CheckoutMetadata":{"shape":"MetadataList"},
"ClientToken":{"shape":"ClientToken"}
}
},

"CheckoutBorrowLicenseResponse":{
"type":"structure",
"members":{
"LicenseArn":{"shape":"Arn"},
"LicenseConsumptionToken":{"shape":"String"},
"EntitlementsAllowed":{"shape":"EntitlementDataList"},
"NodeId":{"shape":"String"},
"SignedToken":{"shape":"SignedToken"},
"IssuedAt":{"shape":"ISO8601DateTime"},
"Expiration":{"shape":"ISO8601DateTime"},
"CheckoutMetadata":{"shape":"MetadataList"}
}
},
"CheckoutLicenseRequest":{
"type":"structure",
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"ProductSKU",
"CheckoutType",
"KeyFingerprint",
"Entitlements",
"ClientToken"
],
"members":{
"ProductSKU":{"shape":"String"},
"CheckoutType":{"shape":"CheckoutType"},
"KeyFingerprint":{"shape":"String"},
"Entitlements":{"shape":"EntitlementDataList"},
"ClientToken":{"shape":"ClientToken"},
"Beneficiary":{"shape":"String"},
"NodeId":{"shape":"String"}
}
},
"CheckoutLicenseResponse":{

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"LicenseConsumptionToken":{"shape":"String"},
"EntitlementsAllowed":{"shape":"EntitlementDataList"},
"SignedToken":{"shape":"SignedToken"},
"NodeId":{"shape":"String"},
"IssuedAt":{"shape":"ISO8601DateTime"},
"Expiration":{"shape":"ISO8601DateTime"},
"LicenseArn":{"shape":"String"}
}
},
"CheckoutType":{
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"PROVISIONAL",
"PERPETUAL"
]
},
"ClientRequestToken":{
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"max":36,
"min":1
},
"ClientToken":{
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"max":2048,
"pattern":"\\S+"
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"ConflictException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"exception":true
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"ConsumedLicenseSummary":{
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"members":{
"ResourceType":{"shape":"ResourceType"},
"ConsumedLicenses":{"shape":"BoxLong"}
}
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"ConsumedLicenseSummaryList":{
"type":"list",
"member":{"shape":"ConsumedLicenseSummary"}
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"ConsumptionConfiguration":{

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"ProvisionalConfiguration":{"shape":"ProvisionalConfiguration"},
"BorrowConfiguration":{"shape":"BorrowConfiguration"}
}
},
"CreateGrantRequest":{
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"ClientToken",
"GrantName",
"LicenseArn",
"Principals",
"HomeRegion",
"AllowedOperations"
],
"members":{
"ClientToken":{"shape":"ClientToken"},
"GrantName":{"shape":"String"},
"LicenseArn":{"shape":"Arn"},
"Principals":{"shape":"PrincipalArnList"},
"HomeRegion":{"shape":"String"},
"AllowedOperations":{"shape":"AllowedOperationList"}
}
},
"CreateGrantResponse":{
"type":"structure",
"members":{
"GrantArn":{"shape":"Arn"},
"Status":{"shape":"GrantStatus"},
"Version":{"shape":"String"}
}
},
"CreateGrantVersionRequest":{
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"ClientToken",
"GrantArn"
],
"members":{
"ClientToken":{"shape":"ClientToken"},
"GrantArn":{"shape":"Arn"},
"GrantName":{"shape":"String"},
"AllowedOperations":{"shape":"AllowedOperationList"},
"Status":{"shape":"GrantStatus"},
"StatusReason":{"shape":"StatusReasonMessage"},
"SourceVersion":{"shape":"String"},

"Options":{"shape":"Options"}
}
},
"CreateGrantVersionResponse":{
"type":"structure",
"members":{
"GrantArn":{"shape":"Arn"},
"Status":{"shape":"GrantStatus"},
"Version":{"shape":"String"}
}
},
"CreateLicenseConfigurationRequest":{
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"required":[
"Name",
"LicenseCountingType"
],
"members":{
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"Description":{"shape":"String"},
"LicenseCountingType":{"shape":"LicenseCountingType"},
"LicenseCount":{"shape":"BoxLong"},
"LicenseCountHardLimit":{"shape":"BoxBoolean"},
"LicenseRules":{"shape":"StringList"},
"Tags":{"shape":"TagList"},
"DisassociateWhenNotFound":{"shape":"BoxBoolean"},
"ProductInformationList":{"shape":"ProductInformationList"}
}
},
"CreateLicenseConfigurationResponse":{
"type":"structure",
"members":{
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}
},
"CreateLicenseConversionTaskForResourceRequest":{
"type":"structure",
"required":[
"ResourceArn",
"SourceLicenseContext",
"DestinationLicenseContext"
],
"members":{
"ResourceArn":{"shape":"Arn"},
"SourceLicenseContext":{"shape":"LicenseConversionContext"},
"DestinationLicenseContext":{"shape":"LicenseConversionContext"}
}
},

"CreateLicenseConversionTaskForResourceResponse":{
  "type":"structure",
  "members":{
    "LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"}
  }
},
"CreateLicenseManagerReportGeneratorRequest":{
  "type":"structure",
  "required":[
    "ReportGeneratorName",
    "Type",
    "ReportContext",
    "ReportFrequency",
    "ClientToken"
  ],
  "members":{
    "ReportGeneratorName":{"shape":"ReportGeneratorName"},
    "Type":{"shape":"ReportTypeList"},
    "ReportContext":{"shape":"ReportContext"},
    "ReportFrequency":{"shape":"ReportFrequency"},
    "ClientToken":{"shape":"ClientRequestToken"},
    "Description":{"shape":"String"},
    "Tags":{"shape":"TagList"}
  }
},
"CreateLicenseManagerReportGeneratorResponse":{
   "type":"structure",
  "members":{
    "LicenseManagerReportGeneratorArn":{"shape":"String"}
  }
},
"CreateLicenseRequest":{
  "type":"structure",
  "required":[
    "LicenseName",
    "ProductName",
    "ProductSKU",
    "Issuer",
    "HomeRegion",
    "Validity",
    "Entitlements",
    "Beneficiary",
    "ConsumptionConfiguration",
    "ClientToken"
  ],
  "members":{
    "LicenseName":{"shape":"String"},
    "ProductName":{"shape":"String"},

"ProductSKU":{"shape":"String"},
"Issuer":{"shape":"Issuer"},
"HomeRegion":{"shape":"String"},
"Validity":{"shape":"DatetimeRange"},
"Entitlements":{"shape":"EntitlementList"},
"Beneficiary":{"shape":"String"},
"ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
"LicenseMetadata":{"shape":"MetadataList"},
"ClientToken":{"shape":"ClientToken"}

}
},
"CreateLicenseResponse":{
"type":"structure",
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"LicenseArn":{"shape":"Arn"},
"Status":{"shape":"LicenseStatus"},
"Version":{"shape":"String"}
}
},
"CreateLicenseVersionRequest":{
"type":"structure",
"required":[
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"LicenseName",
"ProductName",
"Issuer",
"HomeRegion",
"Validity",
"Entitlements",
"ConsumptionConfiguration",
"Status",
"ClientToken"
],
"members":{
"LicenseArn":{"shape":"Arn"},
"LicenseName":{"shape":"String"},
"ProductName":{"shape":"String"},
"Issuer":{"shape":"Issuer"},
"HomeRegion":{"shape":"String"},
"Validity":{"shape":"DatetimeRange"},
"LicenseMetadata":{"shape":"MetadataList"},
"Entitlements":{"shape":"EntitlementList"},
"ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
"Status":{"shape":"LicenseStatus"},
"ClientToken":{"shape":"ClientToken"},
"SourceVersion":{"shape":"String"}
}

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},
"CreateLicenseVersionResponse":{
  "type":"structure",
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "Version":{"shape":"String"},
    "Status":{"shape":"LicenseStatus"}
  }
},
"CreateTokenRequest":{
  "type":"structure",
  "required":[
    "LicenseArn",
    "ClientToken"
  ],
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "RoleArns":{"shape":"ArnList"},
    "ExpirationInDays":{"shape":"Integer"},
    "TokenProperties":{"shape":"MaxSize3StringList"},
    "ClientToken":{"shape":"ClientToken"}
  }
},
"CreateTokenResponse":{
  "type":"structure",
  "members":{
    "TokenId":{"shape":"String"},
    "TokenType":{"shape":"TokenType"},
    "Token":{"shape":"TokenString"}
  }
},
"DateTime":{"type":"timestamp"},
"DatetimeRange":{

"type":"structure",
  "required":["Begin"],
  "members":{
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    "End":{"shape":"ISO8601DateTime"}
  }
},
"DeleteGrantRequest":{
  "type":"structure",
  "required":[
    "GrantArn",
    "Version"
  ],
  "members":{
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"GrantArn":{"shape":"Arn"},
"StatusReason":{"shape":"StatusReasonMessage"},
"Version":{"shape":"String"}
}
},
"DeleteGrantResponse":{
"type":"structure",
"members":{
"GrantArn":{"shape":"Arn"},
"Status":{"shape":"GrantStatus"},
"Version":{"shape":"String"}
}
},
"DeleteLicenseConfigurationRequest":{
"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{
"LicenseConfigurationArn":{"shape":"String"}
}
},
"DeleteLicenseConfigurationResponse":{
"type":"structure",
"members":{
}
},
"DeleteLicenseManagerReportGeneratorRequest":{
"type":"structure",
"required":["LicenseManagerReportGeneratorArn"],
"members":{
"LicenseManagerReportGeneratorArn":{"shape":"String"}
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},
"DeleteLicenseManagerReportGeneratorResponse":{
"type":"structure",
"members":{
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},
"DeleteLicenseRequest":{
"type":"structure",
"required":[
"LicenseArn",
"SourceVersion"
],
"members":{
"LicenseArn":{"shape":"Arn"},
"SourceVersion":{"shape":"String"}
}
},

"DeleteLicenseResponse":{
  "type":"structure",
  "members":{
    "Status":{"shape":"LicenseDeletionStatus"},
    "DeletionDate":{"shape":"ISO8601DateTime"}
  }
},
"DeleteTokenRequest":{
  "type":"structure",
  "required":["TokenId"],
  "members":{
    "TokenId":{"shape":"String"}
  }
},
"DeleteTokenResponse":{
  "type":"structure",
  "members":{
  }
},
"DigitalSignatureMethod":{

  "type":"string",
  "enum":["JWT_PS384"]
},
"Entitlement":{
  "type":"structure",
  "required":[
    "Name",
    "Unit"
  ],
  "members":{
    "Name":{"shape":"String"},
    "Value":{"shape":"String"},
    "MaxCount":{"shape":"Long"},
    "Overage":{"shape":"BoxBoolean"},
    "Unit":{"shape":"EntitlementUnit"},
    "AllowCheckIn":{"shape":"BoxBoolean"}
  }
},
"EntitlementData":{
  "type":"structure",
  "required":[
    "Name",
    "Unit"
  ],
  "members":{
    "Name":{"shape":"String"},
    "Value":{"shape":"String"},

"Unit":{"shape":"EntitlementDataUnit"}
}
},
"EntitlementDataList":{
"type":"list",
"member":{"shape":"EntitlementData"}
},
"EntitlementDataUnit":{
"type":"string",
"enum":[
"Count",
"None",
"Seconds",
"Microseconds",
"Milliseconds",
"Bytes",
"Kilobytes",

"Megabytes",
"Gigabytes",
"Terabytes",
"Bits",
"Kilobits",
"Megabits",
"Gigabits",
"Terabits",
"Percent",
"Bytes/Second",
"Kilobytes/Second",
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"Terabytes/Second",
"Bits/Second",
"Kilobits/Second",
"Megabits/Second",
"Gigabits/Second",
"Terabits/Second",
"Count/Second"
]
},
"EntitlementList":{
"type":"list",
"member":{"shape":"Entitlement"}
},
"EntitlementNotAllowedException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}

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    },
    "exception":true
  },
  "EntitlementUnit":{
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    "enum":[
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      "None",
      "Seconds",
      "Microseconds",
      "Milliseconds",
      "Bytes",
      "Kilobytes",
      "Megabytes",
      "Gigabytes",
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      "Terabits/Second",
      "Count/Second"
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      "Unit"
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      "ConsumedValue":{"shape":"String"},
      "MaxCount":{"shape":"String"},
      "Unit":{"shape":"EntitlementDataUnit"}
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    "ErrorCode":{"shape":"String"}
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  "exception":true
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  "members":{
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"GetLicenseConfigurationResponse":{
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"LicenseConfigurationArn":{"shape":"String"},
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"LicenseRules":{"shape":"StringList"},
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"LicenseCountHardLimit":{"shape":"BoxBoolean"},
"ConsumedLicenses":{"shape":"BoxLong"},
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"OwnerAccountId":{"shape":"String"},
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"DestinationLicenseContext":{"shape":"LicenseConversionContext"},
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"Status":{"shape":"LicenseConversionTaskStatus"},
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"GetLicenseManagerReportGeneratorResponse":{
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"members":{
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"GetServiceSettingsResponse":{
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"SnsTopicArn":{"shape":"String"},
"OrganizationConfiguration":{"shape":"OrganizationConfiguration"},
"EnableCrossAccountsDiscovery":{"shape":"BoxBoolean"},
"LicenseManagerResourceShareArn":{"shape":"String"}
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"GrantName",
"ParentArn",
"LicenseArn",
"GranteePrincipalArn",
"HomeRegion",
"GrantStatus",
"Version",
"GrantedOperations"
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"GrantName":{"shape":"String"},
"ParentArn":{"shape":"Arn"},
"LicenseArn":{"shape":"Arn"},
"GranteePrincipalArn":{"shape":"Arn"},
"HomeRegion":{"shape":"String"},
"GrantStatus":{"shape":"GrantStatus"},
"StatusReason":{"shape":"StatusReasonMessage"},
"Version":{"shape":"String"},
"GrantedOperations":{"shape":"AllowedOperationList"},
"Options":{"shape":"Options"}
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"REJECTED",
"ACTIVE",
"FAILED_WORKFLOW",
"DELETED",
"PENDING_DELETE",
"DISABLED",
"WORKFLOW_COMPLETED"
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"ProductName":{"shape":"String"},
"ProductSKU":{"shape":"String"},
"Issuer":{"shape":"IssuerDetails"},
"HomeRegion":{"shape":"String"},
"Status":{"shape":"LicenseStatus"},
"Validity":{"shape":"DatetimeRange"},
"Beneficiary":{"shape":"String"},
"Entitlements":{"shape":"EntitlementList"},
"ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},

"LicenseMetadata":{"shape":"MetadataList"},
"CreateTime":{"shape":"ISO8601DateTime"},
"Version":{"shape":"String"},
"ReceivedMetadata":{"shape":"ReceivedMetadata"}
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"GrantedLicenseList":{
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"Message":{"shape":"Message"}
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"exception":true
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"Condition"
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  "members":{
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    "SignKey":{"shape":"String"},
    "KeyFingerprint":{"shape":"String"}
  }
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  "members":{
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    "LicenseName":{"shape":"String"},

"ProductName":{"shape":"String"},
    "ProductSKU":{"shape":"String"},
    "Issuer":{"shape":"IssuerDetails"},
    "HomeRegion":{"shape":"String"},
    "Status":{"shape":"LicenseStatus"},
    "Validity":{"shape":"DatetimeRange"},
    "Beneficiary":{"shape":"String"},
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"CreateTime":{"shape":"ISO8601DateTime"},
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"LicenseConfigurationArn":{"shape":"String"},
"Name":{"shape":"String"},
"Description":{"shape":"String"},
"LicenseCountingType":{"shape":"LicenseCountingType"},
"LicenseRules":{"shape":"StringList"},
"LicenseCount":{"shape":"BoxLong"},
"LicenseCountHardLimit":{"shape":"BoxBoolean"},
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"ConsumedLicenses":{"shape":"BoxLong"},
"Status":{"shape":"String"},
"OwnerAccountId":{"shape":"String"},
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"ProductInformationList":{"shape":"ProductInformationList"},
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"AssociationTime":{"shape":"DateTime"},
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"LicenseConfigurationStatus":{
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"DISABLED"
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    "ResourceStatus":{"shape":"String"},
    "ResourceOwnerId":{"shape":"String"},
    "AssociationTime":{"shape":"DateTime"},
    "ConsumedLicenses":{"shape":"BoxLong"}
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  "member":{"shape":"LicenseConfiguration"}
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    "SourceLicenseContext":{"shape":"LicenseConversionContext"},
    "DestinationLicenseContext":{"shape":"LicenseConversionContext"},
    "Status":{"shape":"LicenseConversionTaskStatus"},
    "StatusMessage":{"shape":"String"},
    "StartTime":{"shape":"DateTime"},
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    "EndTime":{"shape":"DateTime"}
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"Socket"
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"FailureTime":{"shape":"DateTime"},
"OperationName":{"shape":"String"},
"ResourceOwnerId":{"shape":"String"},
"OperationRequestedBy":{"shape":"String"},
"MetadataList":{"shape":"MetadataList"}
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"LicenseOperationFailureList":{
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"DEACTIVATED",
"SUSPENDED",
"EXPIRED",
"PENDING_DELETE",
"DELETED"
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"ListAssociationsForLicenseConfigurationResponse":{
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"members":{
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"NextToken":{"shape":"String"}
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"ListDistributedGrantsRequest":{
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"Filters":{"shape":"FilterList"},
"NextToken":{"shape":"String"},
"MaxResults":{"shape":"MaxSize100"}
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"ListDistributedGrantsResponse":{
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"NextToken":{"shape":"String"}
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"ListFailuresForLicenseConfigurationOperationsRequest":{
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"MaxResults":{"shape":"BoxInteger"},
"NextToken":{"shape":"String"}
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"ListFailuresForLicenseConfigurationOperationsResponse":{
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"NextToken":{"shape":"String"}
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"ListLicenseConfigurationsRequest":{
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"MaxResults":{"shape":"BoxInteger"},
"NextToken":{"shape":"String"},
"Filters":{"shape":"Filters"}
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"NextToken":{"shape":"String"}
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"Filters":{"shape":"Filters"}
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"ListLicenseConversionTasksResponse":{
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"NextToken":{"shape":"String"}
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"NextToken":{"shape":"String"},
"MaxResults":{"shape":"MaxSize100"}
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"ListLicenseManagerReportGeneratorsResponse":{
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"NextToken":{"shape":"String"}
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"MaxResults":{"shape":"BoxInteger"},
"NextToken":{"shape":"String"}
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},
"ListLicenseSpecificationsForResourceResponse":{
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"NextToken":{"shape":"String"}

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"ListLicenseVersionsRequest":{
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"NextToken":{"shape":"String"},
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"ListLicenseVersionsResponse":{
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"Licenses":{"shape":"LicenseList"},
"NextToken":{"shape":"String"}
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},
"ListLicensesRequest":{
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"members":{
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"Filters":{"shape":"FilterList"},
"NextToken":{"shape":"String"},
"MaxResults":{"shape":"MaxSize100"}
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"ListLicensesResponse":{
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"NextToken":{"shape":"String"}
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"ListReceivedGrantsForOrganizationRequest":{
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"MaxResults":{"shape":"MaxSize100"}
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"NextToken":{"shape":"String"}
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"MaxResults":{"shape":"MaxSize100"}
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"NextToken":{"shape":"String"},
"MaxResults":{"shape":"MaxSize100"}
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"ListReceivedLicensesForOrganizationResponse":{
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"NextToken":{"shape":"String"}
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"members":{
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"MaxResults":{"shape":"MaxSize100"}
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"type":"structure",
"members":{
"Licenses":{"shape":"GrantedLicenseList"},
"NextToken":{"shape":"String"}

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"ListResourceInventoryRequest":{
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  "members":{
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    "NextToken":{"shape":"String"},
    "Filters":{"shape":"InventoryFilterList"}
  }
},
"ListResourceInventoryResponse":{
  "type":"structure",
  "members":{
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     "NextToken":{"shape":"String"}
  }
},
"ListTagsForResourceRequest":{
  "type":"structure",
  "required":["ResourceArn"],
  "members":{
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},
"ListTagsForResourceResponse":{
  "type":"structure",
  "members":{
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"ListTokensRequest":{
  "type":"structure",
  "members":{
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    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
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"ListTokensResponse":{
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"NextToken":{"shape":"String"},
"Filters":{"shape":"Filters"}
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"ListUsageForLicenseConfigurationResponse":{
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"NextToken":{"shape":"String"}
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"AssociationCount":{"shape":"BoxLong"}
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"ManagedResourceSummaryList":{
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"member":{"shape":"ManagedResourceSummary"}
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"MaxSize3StringList":{
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"member":{"shape":"String"},
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"Value":{"shape":"String"}
}
},
"MetadataList":{
"type":"list",

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  "member":{"shape":"Metadata"}
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"NoEntitlementsAllowedException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
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  "exception":true
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"Options":{
  "type":"structure",
  "members":{
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  }
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"OrganizationConfiguration":{
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  "required":["EnableIntegration"],
  "members":{
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  }
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"PrincipalArnList":{
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  "member":{"shape":"Arn"},
  "max":1,
  "min":1
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  "required":[
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    "ProductInformationFilterList"
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  "members":{
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     "ProductInformationFilterList":{"shape":"ProductInformationFilterList"}
  }
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"ProductInformationFilter":{
  "type":"structure",
  "required":[
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    "ProductInformationFilterComparator"
  ],
  "members":{
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    "ProductInformationFilterValue":{"shape":"StringList"},
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"ProductInformationFilterComparator":{"shape":"String"}
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"member":{"shape":"ProductInformationFilter"}
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"ReceivedStatusReason":{"shape":"StatusReasonMessage"},
"AllowedOperations":{"shape":"AllowedOperationList"}
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"REJECTED",
"ACTIVE",
"FAILED_WORKFLOW",
"DELETED",
"DISABLED",
"WORKFLOW_COMPLETED"
]
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    "Message":{"shape":"Message"}
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  "exception":true
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  "required":["GrantArn"],
  "members":{
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},
"RejectGrantResponse":{
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  "members":{
     "GrantArn":{"shape":"Arn"},
    "Status":{"shape":"GrantStatus"},
    "Version":{"shape":"String"}
  }
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  "enum":[
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    "Weekly",
    "Monthly"
  ]
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"ReportContext":{
  "type":"structure",
  "required":["licenseConfigurationArns"],
  "members":{
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"ReportFrequency":{
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  "members":{
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    "period":{"shape":"ReportFrequencyType"}
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  "enum":[
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    "WEEK",
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"MONTH"
]
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"ReportType":{"shape":"ReportTypeList"},
"ReportContext":{"shape":"ReportContext"},
"ReportFrequency":{"shape":"ReportFrequency"},
"LicenseManagerReportGeneratorArn":{"shape":"String"},
"LastRunStatus":{"shape":"String"},
"LastRunFailureReason":{"shape":"String"},
"LastReportGenerationTime":{"shape":"String"},
"ReportCreatorAccount":{"shape":"String"},
"Description":{"shape":"String"},
"S3Location":{"shape":"S3Location"},
"CreateTime":{"shape":"String"},
"Tags":{"shape":"TagList"}
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"ReportGeneratorList":{
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"member":{"shape":"ReportGenerator"}
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"ReportGeneratorName":{
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"ReportType":{
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"enum":[
"LicenseConfigurationSummaryReport",
"LicenseConfigurationUsageReport"
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"ResourceType":{"shape":"ResourceType"},
"ResourceArn":{"shape":"String"},
"Platform":{"shape":"String"},

"PlatformVersion":{"shape":"String"},
"ResourceOwningAccountId":{"shape":"String"}
}
},
"ResourceInventoryList":{
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"member":{"shape":"ResourceInventory"}
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"Message":{"shape":"Message"}
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"exception":true
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"ResourceNotFoundException":{
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"members":{
"Message":{"shape":"Message"}
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"ResourceType":{
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"enum":[
"EC2_INSTANCE",
"EC2_HOST",
"EC2_AMI",
"RDS",
"SYSTEMS_MANAGER_MANAGED_INSTANCE"
]
},
"S3Location":{
"type":"structure",
"members":{
"bucket":{"shape":"String"},
"keyPrefix":{"shape":"String"}

}
},
"ServerInternalException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"exception":true,
"fault":true
},

"SignedToken":{
  "type":"string",
  "min":4096
},
"StatusReasonMessage":{
  "type":"string",
  "max":400,
  "pattern":"[\\s\\S]+"
},
"String":{"type":"string"},
"StringList":{
  "type":"list",
  "member":{"shape":"String"}
},
"Tag":{
  "type":"structure",
  "members":{
    "Key":{"shape":"String"},
    "Value":{"shape":"String"}
  }
},
"TagKeyList":{
  "type":"list",
  "member":{"shape":"String"}
},
"TagList":{
  "type":"list",
  "member":{"shape":"Tag"}
},
"TagResourceRequest":{
  "type":"structure",
  "required":[
    "ResourceArn",
    "Tags"
  ],
  "members":{
    "ResourceArn":{"shape":"String"},
    "Tags":{"shape":"TagList"}
  }
},
"TagResourceResponse":{
   "type":"structure",
  "members":{
  }
},
"TokenData":{
  "type":"structure",
  "members":{

"TokenId":{"shape":"String"},
"TokenType":{"shape":"String"},
"LicenseArn":{"shape":"String"},
"ExpirationTime":{"shape":"ISO8601DateTime"},
"TokenProperties":{"shape":"MaxSize3StringList"},
"RoleArns":{"shape":"ArnList"},
"Status":{"shape":"String"}
}
},
"TokenList":{
"type":"list",
"member":{"shape":"TokenData"}
},
"TokenString":{
"type":"string",
"max":4096,
"pattern":"\\S+"
},
"TokenType":{
"type":"string",
"enum":["REFRESH_TOKEN"]
},
"UnsupportedDigitalSignatureMethodException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"exception":true
},
"UntagResourceRequest":{
"type":"structure",
"required":[
"ResourceArn",
"TagKeys"
],
"members":{
"ResourceArn":{"shape":"String"},
"TagKeys":{"shape":"TagKeyList"}
}
},
"UntagResourceResponse":{
"type":"structure",
"members":{
}
},
"UpdateLicenseConfigurationRequest":{
"type":"structure",
"required":["LicenseConfigurationArn"],

```
  "members":{
    "LicenseConfigurationArn":{"shape":"String"},
    "LicenseConfigurationStatus":{"shape":"LicenseConfigurationStatus"},
    "LicenseRules":{"shape":"StringList"},
    "LicenseCount":{"shape":"BoxLong"},
    "LicenseCountHardLimit":{"shape":"BoxBoolean"},
    "Name":{"shape":"String"},
    "Description":{"shape":"String"},
    "ProductInformationList":{"shape":"ProductInformationList"},
    "DisassociateWhenNotFound":{"shape":"BoxBoolean"}
  }
},
"UpdateLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateLicenseManagerReportGeneratorRequest":{
   "type":"structure",
  "required":[
    "LicenseManagerReportGeneratorArn",
    "ReportGeneratorName",
    "Type",
    "ReportContext",
    "ReportFrequency",
    "ClientToken"
  ],
  "members":{
    "LicenseManagerReportGeneratorArn":{"shape":"String"},
    "ReportGeneratorName":{"shape":"ReportGeneratorName"},
    "Type":{"shape":"ReportTypeList"},
    "ReportContext":{"shape":"ReportContext"},
    "ReportFrequency":{"shape":"ReportFrequency"},
    "ClientToken":{"shape":"ClientRequestToken"},
    "Description":{"shape":"String"}
  }
},
"UpdateLicenseManagerReportGeneratorResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateLicenseSpecificationsForResourceRequest":{
  "type":"structure",
  "required":["ResourceArn"],
  "members":{
    "ResourceArn":{"shape":"String"},
    "AddLicenseSpecifications":{"shape":"LicenseSpecifications"},
```

"RemoveLicenseSpecifications":{"shape":"LicenseSpecifications"}
}
},
"UpdateLicenseSpecificationsForResourceResponse":{
"type":"structure",
"members":{
}
},
"UpdateServiceSettingsRequest":{
"type":"structure",
"members":{
"S3BucketArn":{"shape":"String"},
"SnsTopicArn":{"shape":"String"},
"OrganizationConfiguration":{"shape":"OrganizationConfiguration"},
"EnableCrossAccountsDiscovery":{"shape":"BoxBoolean"}
}
},
"UpdateServiceSettingsResponse":{
"type":"structure",
"members":{
}
},
"UsageOperation":{
"type":"string",
"max":50
},
"ValidationException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"exception":true
}
}
}
{
"version": "2.0",
"service": " License Manager makes it easier to manage licenses from software vendors across multiple Amazon Web Services accounts and on-premises servers. ",
"operations": {
"AcceptGrant": " Accepts the specified grant. ",
"CheckInLicense": " Checks in the specified license. Check in a license when it is no longer in use. ",
"CheckoutBorrowLicense": " Checks out the specified license for offline use. ",
"CheckoutLicense": " Checks out the specified license. <note> If the account that created the license is the same that is performing the check out, you must specify the account as the beneficiary. </note>",
"CreateGrant": " Creates a grant for the specified license. A grant shares the use of license entitlements with a specific Amazon Web Services account, an organization, or an organizational unit (OU). For more information, see Granted

licenses in License Manager in the License Manager User Guide. ",
"CreateGrantVersion": " Creates a new version of the specified grant. For more information, see Granted licenses in License Manager in the License Manager User Guide. ",
"CreateLicense": " Creates a license. ",
"CreateLicenseConfiguration": " Creates a license configuration. A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a license must be associated with a host), and the number of licenses purchased and used. ",
"CreateLicenseConversionTaskForResource":
" Creates a new license conversion task. ",
"CreateLicenseManagerReportGenerator": " Creates a report generator. ",
"CreateLicenseVersion": " Creates a new version of the specified license. ",
"CreateToken": " Creates a long-lived token. A refresh token is a JWT token used to get an access token. With an access token, you can call AssumeRoleWithWebIdentity to get role credentials that you can use to call License Manager to manage the specified license. ",
"DeleteGrant": " Deletes the specified grant. ",
"DeleteLicense": " Deletes the specified license. ",
"DeleteLicenseConfiguration": " Deletes the specified license configuration. You cannot delete a license configuration that is in use. ",
"DeleteLicenseManagerReportGenerator": " Deletes the specified report generator. This action deletes the report generator, which stops it from generating future reports. The action cannot be reversed. It
has no effect on the previous reports from this generator. ",
"DeleteToken": " Deletes the specified token. Must be called in the license home Region. ",
"ExtendLicenseConsumption": " Extends the expiration date for license consumption. ",
"GetAccessToken": " Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access tokens are valid for one hour. ",
"GetGrant": " Gets detailed information about the specified grant. ",
"GetLicense": " Gets detailed information about the specified license. ",
"GetLicenseConfiguration": " Gets detailed information about the specified license configuration. ",
"GetLicenseConversionTask": " Gets information about the specified license type conversion task. ",
"GetLicenseManagerReportGenerator": " Gets information about the specified report generator. ",
"GetLicenseUsage": " Gets detailed information about the usage of the specified license. ",
"GetServiceSettings":
" Gets the License Manager settings for the current Region. ",
"ListAssociationsForLicenseConfiguration": " Lists the resource associations for the specified license configuration. Resource associations need not consume licenses from a license configuration. For example, an AMI or a stopped instance might not consume a license (depending on the license rules). ",
"ListDistributedGrants": " Lists the grants distributed for the specified license. ",
"ListFailuresForLicenseConfigurationOperations": " Lists the license configuration operations that failed. ",
"ListLicenseConfigurations": " Lists the license configurations for your account. ",
"ListLicenseConversionTasks": " Lists the license type conversion tasks for your account. ",
"ListLicenseManagerReportGenerators": " Lists the report generators for your account. ",
"ListLicenseSpecificationsForResource": " Describes the license configurations for the
specified resource. ",
"ListLicenseVersions": " Lists all versions of the specified license. ",

"ListLicenses": " Lists the licenses for your account. ",
"ListReceivedGrants": " Lists grants that are received. Received grants are grants created while specifying the recipient as this Amazon Web Services account, your organization, or an organizational unit (OU) to which this member account belongs. ",
"ListReceivedGrantsForOrganization": " Lists the grants received for all accounts in the organization. ",
"ListReceivedLicenses": " Lists received licenses. ",
"ListReceivedLicensesForOrganization": " Lists the licenses received for all accounts in the organization. ",
"ListResourceInventory": " Lists resources managed using Systems Manager inventory. ",
"ListTagsForResource": " Lists the tags for the specified license configuration. ",
"ListTokens": " Lists your tokens. ",
"ListUsageForLicenseConfiguration":
" Lists all license usage records for a license configuration, displaying license consumption details by resource at a selected point in time. Use this action to audit the current license consumption for any license inventory and configuration. ",
"RejectGrant": " Rejects the specified grant. ",
"TagResource": " Adds the specified tags to the specified license configuration. ",
"UntagResource": " Removes the specified tags from the specified license configuration. ",
"UpdateLicenseConfiguration": " Modifies the attributes of an existing license configuration. ",
"UpdateLicenseManagerReportGenerator": " Updates a report generator. After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated. ",
"UpdateLicenseSpecificationsForResource": " Adds or removes the specified license configurations for the specified Amazon Web Services resource. You can update the
license specifications of AMIs, instances, and hosts. You cannot update the license specifications for launch templates and CloudFormation templates, as they send license configurations to the operation that creates the resource. ",
"UpdateServiceSettings": " Updates License Manager settings for the current Region. "
},
"shapes": {
"AcceptGrantRequest": {
"base": null,
"refs": {
}
},
"AcceptGrantResponse": {
"base": null,
"refs": {
}
},
"AccessDeniedException": {
"base": " Access to resource denied. ",
"refs": {
}
},
"ActivationOverrideBehavior": {
"base": null,
"refs": {
"Options$ActivationOverrideBehavior": " An activation option for your grant that determines the behavior

of activating a grant. Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code>
 for the <code>Status</code> parameter.   As a license administrator, you can optionally specify an <code>ActivationOverrideBehavior</code> when activating a grant.   As a grantor, you can optionally specify an <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee account in your organization.   As a grantee, if the grantor creating the distributed grant doesnt specify an <code>ActivationOverrideBehavior</code>, you can optionally specify one when you are activating the grant.   <dl> <dt>DISTRIBUTED_GRANTS_ONLY</dt> <dd> Use this value to activate a grant without replacing any member accounts active grants for the same product. </dd>
<dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt> <dd> Use this value to activate a grant and disable other active grants in any member accounts for the same product. This action will also replace their previously activated grants with this activated grant.
 </dd> </dl>"
    }
  },
  "AllowedOperation": {
    "base": null,
    "refs": {
      "AllowedOperationList$member": null
    }
  },
  "AllowedOperationList": {
    "base": null,
    "refs": {
      "CreateGrantRequest$AllowedOperations": " Allowed operations for the grant. ",
      "CreateGrantVersionRequest$AllowedOperations": " Allowed operations for the grant. ",
      "Grant$GrantedOperations": " Granted operations. ",
      "ReceivedMetadata$AllowedOperations": " Allowed operations. "
    }
  },
  "Arn": {
    "base": null,
    "refs": {
      "AcceptGrantRequest$GrantArn": " Amazon Resource Name (ARN) of the grant. ",
      "AcceptGrantResponse$GrantArn": " Grant ARN. ",
      "ArnList$member": null,
      "CheckoutBorrowLicenseRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. The license must use the borrow consumption configuration. ",
      "CheckoutBorrowLicenseResponse$LicenseArn":
 " Amazon Resource Name (ARN) of the license. ",
      "CreateGrantRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
      "CreateGrantResponse$GrantArn": " Grant ARN. ",
      "CreateGrantVersionRequest$GrantArn": " Amazon Resource Name (ARN) of the grant. ",
      "CreateGrantVersionResponse$GrantArn": " Grant ARN. ",
      "CreateLicenseConversionTaskForResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of the resource you are converting the license type for. ",
      "CreateLicenseResponse$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
      "CreateLicenseVersionRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",

"CreateLicenseVersionResponse$LicenseArn": " License ARN. ",
"CreateTokenRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the JWT token. ",
"DeleteGrantRequest$GrantArn": " Amazon Resource Name (ARN) of the grant. ",
"DeleteGrantResponse$GrantArn": " Grant ARN. ",
"DeleteLicenseRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"GetGrantRequest$GrantArn": " Amazon Resource Name (ARN) of the grant. ",
"GetLicenseRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"GetLicenseUsageRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"Grant$GrantArn": " Amazon Resource Name (ARN) of the grant. ",
"Grant$ParentArn": " Parent ARN. ",
"Grant$LicenseArn": " License ARN. ",
"Grant$GranteePrincipalArn": " The grantee principal ARN. ",
"GrantedLicense$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"License$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"ListLicenseVersionsRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"ListReceivedGrantsForOrganizationRequest$LicenseArn": " The Amazon Resource Name (ARN) of the received license. ",
"PrincipalArnList$member": null,
"RejectGrantRequest$GrantArn": " Amazon Resource Name (ARN) of the grant. ",
"RejectGrantResponse$GrantArn": " Grant ARN. "
}
},
"ArnList": {
"base": null,
"refs": {
"CreateTokenRequest$RoleArns": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. License Manager does not check whether the roles are in use. ",
"ListDistributedGrantsRequest$GrantArns": " Amazon Resource Names (ARNs) of the grants. ",
"ListLicensesRequest$LicenseArns": " Amazon Resource Names (ARNs) of the licenses. ",
"ListReceivedGrantsRequest$GrantArns": " Amazon Resource Names (ARNs) of the grants. ",
"ListReceivedLicensesRequest$LicenseArns": " Amazon Resource Names (ARNs) of the licenses. ",

"ReportContext$licenseConfigurationArns": " Amazon Resource Name (ARN) of the license configuration that this generator reports on. ",
"TokenData$RoleArns": " Amazon Resource Names (ARN) of the roles included in the token. "
}
},
"AuthorizationException": {
"base": " The Amazon Web Services user account does not have permission to perform the action. Check the IAM policy associated with this account. ",
"refs": {
}
},
"AutomatedDiscoveryInformation": {
"base": " Describes automated discovery. ",

"refs": {
"GetLicenseConfigurationResponse$AutomatedDiscoveryInformation": " Automated discovery information. ",
"LicenseConfiguration$AutomatedDiscoveryInformation": " Automated discovery information. "
}
},
"Boolean": {
"base": null,
"refs": {
"ExtendLicenseConsumptionRequest$DryRun": " Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions. ",
"OrganizationConfiguration$EnableIntegration": " Enables Organizations integration. "
}
},
"BorrowConfiguration": {
"base": " Details about a borrow configuration. ",
"refs": {
"ConsumptionConfiguration$BorrowConfiguration": " Details about a borrow configuration. "
}
},
"BoxBoolean": {
"base": null,
"refs": {
"BorrowConfiguration$AllowEarlyCheckIn": " Indicates whether early check-ins are allowed. ",
"CreateLicenseConfigurationRequest$LicenseCountHardLimit": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit blocks the launch of new instances. ",
"CreateLicenseConfigurationRequest$DisassociateWhenNotFound": " When true, disassociates a resource when software is uninstalled. ",
"Entitlement$Overage": " Indicates
whether overages are allowed. ",
"Entitlement$AllowCheckIn": " Indicates whether check-ins are allowed. ",
"GetLicenseConfigurationResponse$LicenseCountHardLimit": " Sets the number of available licenses as a hard limit. ",
"GetLicenseConfigurationResponse$DisassociateWhenNotFound": " When true, disassociates a resource when software is uninstalled. ",
"GetServiceSettingsResponse$EnableCrossAccountsDiscovery": " Indicates whether cross-account discovery is enabled. ",
"LicenseConfiguration$LicenseCountHardLimit": " Number of available licenses as a hard limit. ",
"LicenseConfiguration$DisassociateWhenNotFound": " When true, disassociates a resource when software is uninstalled. ",
"UpdateLicenseConfigurationRequest$LicenseCountHardLimit": " New hard limit of the number of available licenses. ",
"UpdateLicenseConfigurationRequest$DisassociateWhenNotFound": " When true, disassociates
a resource when software is uninstalled. ",
"UpdateServiceSettingsRequest$EnableCrossAccountsDiscovery": " Activates cross-account discovery. "
}

},
"BoxInteger": {
"base": null,
"refs": {
"BorrowConfiguration$MaxTimeToLiveInMinutes": " Maximum time for the borrow configuration, in minutes. ",
"ListAssociationsForLicenseConfigurationRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListFailuresForLicenseConfigurationOperationsRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListLicenseConfigurationsRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListLicenseConversionTasksRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListLicenseSpecificationsForResourceRequest$MaxResults": " Maximum number of results to return in a single call. ",

"ListResourceInventoryRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListUsageForLicenseConfigurationRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ProvisionalConfiguration$MaxTimeToLiveInMinutes": " Maximum time for the provisional configuration, in minutes. "
}
},
"BoxLong": {
"base": null,
"refs": {
"ConsumedLicenseSummary$ConsumedLicenses": " Number of licenses consumed by the resource. ",
"CreateLicenseConfigurationRequest$LicenseCount": " Number of licenses managed by the license configuration. ",
"GetLicenseConfigurationResponse$LicenseCount": " Number of available licenses. ",
"GetLicenseConfigurationResponse$ConsumedLicenses": " Number of licenses assigned to resources. ",
"LicenseConfiguration$LicenseCount": " Number of licenses managed by the license configuration. ",
"LicenseConfiguration$ConsumedLicenses":
" Number of licenses consumed. ",
"LicenseConfigurationUsage$ConsumedLicenses": " Number of licenses consumed by the resource. ",
"ManagedResourceSummary$AssociationCount": " Number of resources associated with licenses. ",
"UpdateLicenseConfigurationRequest$LicenseCount": " New number of licenses managed by the license configuration. "
}
},
"CheckInLicenseRequest": {
"base": null,
"refs": {
}
},
"CheckInLicenseResponse": {
"base": null,

"refs": {
}
},
"CheckoutBorrowLicenseRequest": {
"base": null,
"refs": {
}
},
"CheckoutBorrowLicenseResponse": {
"base": null,
"refs": {
}
},
"CheckoutLicenseRequest": {
"base": null,
"refs": {
}
},
"CheckoutLicenseResponse": {
"base": null,
"refs": {
}
},
"CheckoutType": {
"base": null,
"refs": {
"CheckoutLicenseRequest$CheckoutType": " Checkout type. ",
"CheckoutLicenseResponse$CheckoutType": " Checkout type. "
}
},
"ClientRequestToken": {
"base": null,
"refs": {
"CreateLicenseManagerReportGeneratorRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"UpdateLicenseManagerReportGeneratorRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. "
}
},
"ClientToken": {
"base": null,
"refs": {
"CheckoutBorrowLicenseRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"CheckoutLicenseRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"CreateGrantRequest$ClientToken": " Unique, case-sensitive

identifier that you provide to ensure the idempotency of the request. ",
"CreateGrantVersionRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"CreateLicenseRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"CreateLicenseVersionRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"CreateTokenRequest$ClientToken": " Idempotency token, valid for 10 minutes. "
}
},
"ConflictException": {
"base": " There was a conflict processing the request. Try your request again. ",
"refs": {
}
},
"ConsumedLicenseSummary": {
"base": " Details about license consumption. ",
"refs": {
"ConsumedLicenseSummaryList$member": null
}
},
"ConsumedLicenseSummaryList": {
"base": null,
"refs": {
"GetLicenseConfigurationResponse$ConsumedLicenseSummaryList": " Summaries of the licenses consumed by resources. ",
"LicenseConfiguration$ConsumedLicenseSummaryList": " Summaries for licenses consumed by various resources. "
}
},
"ConsumptionConfiguration": {
"base": " Details about a consumption configuration. ",
"refs": {
"CreateLicenseRequest$ConsumptionConfiguration": " Configuration for consumption of the license. Choose a provisional configuration for workloads running with continuous connectivity. Choose a borrow configuration for workloads with offline usage. ",
"CreateLicenseVersionRequest$ConsumptionConfiguration": " Configuration for consumption of the license. Choose a provisional configuration for workloads running with continuous connectivity. Choose a borrow configuration for workloads with offline usage. ",
"GrantedLicense$ConsumptionConfiguration": " Configuration for consumption of the license. ",
"License$ConsumptionConfiguration": " Configuration for consumption of the license. "
}
},
"CreateGrantRequest": {
"base": null,
"refs": {
}

},
"CreateGrantResponse": {
  "base": null,
  "refs": {
  }
},
"CreateGrantVersionRequest": {
  "base": null,
  "refs": {
  }
},
"CreateGrantVersionResponse": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseConfigurationRequest": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseConfigurationResponse": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseConversionTaskForResourceRequest": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseConversionTaskForResourceResponse": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseManagerReportGeneratorRequest": {
  "base": null,
  "refs": {

 }
},
"CreateLicenseManagerReportGeneratorResponse": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseRequest": {

"base": null,
"refs": {
}
},
"CreateLicenseResponse": {
"base": null,
"refs": {
}
},
"CreateLicenseVersionRequest": {
"base": null,
"refs": {
}
},
"CreateLicenseVersionResponse": {
"base": null,
"refs": {
}
},
"CreateTokenRequest": {
"base": null,
"refs": {
}
},
"CreateTokenResponse": {
"base": null,
"refs": {
}
},
"DateTime": {
"base": null,
"refs": {
"AutomatedDiscoveryInformation$LastRunTime": " Time that automated discovery last ran. ",
"GetLicenseConversionTaskResponse$StartTime": " Time at which the license type conversion task was started . ",
"GetLicenseConversionTaskResponse$LicenseConversionTime": " Amount of time to complete the license type conversion. ",
"GetLicenseConversionTaskResponse$EndTime": " Time at which the license type conversion task was completed. ",
"LicenseConfigurationAssociation$AssociationTime": " Time when the license configuration was associated with the resource. ",
"LicenseConfigurationUsage$AssociationTime": " Time when the license configuration was initially associated with the resource. ",
"LicenseConversionTask$StartTime": " The time the conversion task was started at. ",
"LicenseConversionTask$LicenseConversionTime": " The time the usage operation value of the resource was changed. ",
"LicenseConversionTask$EndTime": " The time the conversion task was completed. ",
"LicenseOperationFailure$FailureTime": " Failure time. "

```
    }
  },
  "DatetimeRange": {
    "base": "<p>Describes a time range, in ISO8601-UTC format.</p>",
    "refs": {
      "CreateLicenseRequest$Validity": "<p>Date
 and time range during which the license is valid, in ISO8601-UTC format.</p>",
      "CreateLicenseVersionRequest$Validity": "<p>Date and time range during which the license is valid, in
ISO8601-UTC format.</p>",
      "GrantedLicense$Validity": "<p>Date and time range during which the granted license is valid, in ISO8601-
UTC format.</p>",
      "License$Validity": "<p>Date and time range during which the license is valid, in ISO8601-UTC format.</p>"
    }
  },
  "DeleteGrantRequest": {
    "base": null,
    "refs": {
    }
  },
  "DeleteGrantResponse": {
    "base": null,
    "refs": {
    }
  },
  "DeleteLicenseConfigurationRequest": {
    "base": null,
    "refs": {
    }
  },
  "DeleteLicenseConfigurationResponse": {
    "base": null,
    "refs": {
    }
  },
  "DeleteLicenseManagerReportGeneratorRequest": {
    "base": null,
    "refs": {
    }
  },
  "DeleteLicenseManagerReportGeneratorResponse": {
    "base": null,
     "refs": {
    }
  },
  "DeleteLicenseRequest": {
    "base": null,
    "refs": {
    }
```

},
"DeleteLicenseResponse": {
"base": null,
"refs": {
}
},
"DeleteTokenRequest": {
"base": null,
"refs": {
}
},
"DeleteTokenResponse": {
"base": null,
"refs": {
}
},
"DigitalSignatureMethod": {
"base": null,
"refs": {
"CheckoutBorrowLicenseRequest$DigitalSignatureMethod": " Digital signature method. The possible value is JSON Web Signature (JWS) algorithm PS384. For more information, see RFC 7518 Digital Signature with RSASSA-PSS. "
}
},
"Entitlement": {
"base": " Describes a resource entitled for use with a license. ",
"refs": {
"EntitlementList$member": null
}
},
"EntitlementData": {
"base": " Data associated with an entitlement resource. ",

"refs": {
"EntitlementDataList$member": null
}
},
"EntitlementDataList": {
"base": null,
"refs": {
"CheckoutBorrowLicenseRequest$Entitlements": " License entitlements. Partial checkouts are not supported. ",
"CheckoutBorrowLicenseResponse$EntitlementsAllowed": " Allowed license entitlements. ",
"CheckoutLicenseRequest$Entitlements": " License entitlements. ",
"CheckoutLicenseResponse$EntitlementsAllowed": " Allowed license entitlements. "
}
},
"EntitlementDataUnit": {

"base": null,
"refs": {
"EntitlementData$Unit": " Entitlement data unit. ",
"EntitlementUsage$Unit": " Entitlement usage unit. "
}
},
"EntitlementList": {
"base": null,
"refs": {
"CreateLicenseRequest$Entitlements": " License entitlements. ",
"CreateLicenseVersionRequest$Entitlements": " License entitlements. ",
"GrantedLicense$Entitlements":
" License entitlements. ",
"License$Entitlements": " License entitlements. "
}
},
"EntitlementNotAllowedException": {
"base": " The entitlement is not allowed. ",
"refs": {
}
},
"EntitlementUnit": {
"base": null,
"refs": {
"Entitlement$Unit": " Entitlement unit. "
}
},
"EntitlementUsage": {
"base": " Usage associated with an entitlement resource. ",
"refs": {
"EntitlementUsageList$member": null
}
},
"EntitlementUsageList": {
"base": null,
"refs": {
"LicenseUsage$EntitlementUsages": " License entitlement usages. "
}
},
"ExtendLicenseConsumptionRequest": {
"base": null,
"refs": {
}
},
"ExtendLicenseConsumptionResponse": {
"base": null,
"refs": {
}

},
"FailedDependencyException": {
"base": " A dependency required to run the API is missing. ",
"refs": {
}
},
"Filter": {
"base": " A filter name and value pair that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs. ",
"refs": {
"FilterList$member": null,
"Filters$member": null
}
},
"FilterLimitExceededException": {
"base": " The request uses too many filters or too many filter values. ",
"refs": {
}
},
"FilterList": {
"base": null,
"refs": {
"ListDistributedGrantsRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>LicenseArn</code>   <code>GrantStatus</code>   <code>GranteePrincipalARN</code>   <code>ProductSKU</code>   <code>LicenseIssuerName</code> ",
"ListLicenseManagerReportGeneratorsRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>LicenseConfigurationArn</code> ",
"ListLicensesRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>Beneficiary</code>   <code>ProductSKU</code>   <code>Fingerprint</code>   <code>Status</code> ",
"ListReceivedGrantsForOrganizationRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>ParentArn</code>   <code>GranteePrincipalArn</code> ",
"ListReceivedGrantsRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>ProductSKU</code>   <code>LicenseIssuerName</code>   <code>LicenseArn</code>   <code>GrantStatus</code>   <code>GranterAccountId</code> ",
"ListReceivedLicensesForOrganizationRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>Beneficiary</code>   <code>ProductSKU</code> ",
"ListReceivedLicensesRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>ProductSKU</code>   <code>Status</code>   <code>Fingerprint</code>   <code>IssuerName</code>   <code>Beneficiary</code> ",
"ListTokensRequest$Filters": " Filters to scope the results. The following filter is supported: <ul> <code>LicenseArns</code> "

```
    }
  },
  "FilterName": {
    "base": null,
    "refs": {
      "Filter$Name": "<p>Name of the filter. Filter names are case-sensitive.</p>"
     }
  },
  "FilterValue": {
    "base": null,
    "refs": {
      "FilterValues$member": null
    }
  },
  "FilterValues": {
    "base": null,
    "refs": {
      "Filter$Values": "<p>The value of the filter, which is case-sensitive. You can only specify one value for the filter.</p>"
    }
  },
  "Filters": {
    "base": null,
    "refs": {
      "ListLicenseConfigurationsRequest$Filters": "<p>Filters to scope the results. The following filters and logical operators are supported:</p> <ul> <li> <p> <code>licenseCountingType</code> - The dimension for which licenses are counted. Possible values are <code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement is used. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>
 </li> <li> <p> <code>usagelimitExceeded</code> - A Boolean value that indicates whether the available licenses have been exceeded. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> </ul>",
      "ListLicenseConversionTasksRequest$Filters": "<p> Filters to scope the results. Valid filters are <code>ResourceArns</code> and <code>Status</code>. </p>",
      "ListUsageForLicenseConfigurationRequest$Filters": "<p>Filters to scope the results. The following filters and logical operators are supported:</p> <ul> <li> <p> <code>resourceArn</code> - The ARN of the license configuration resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>resourceAccount</code>
 - The ID of the account that owns the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> </ul>"
    }
  },
  "GetAccessTokenRequest": {
    "base": null,
```

"refs": {
}
},
"GetAccessTokenResponse": {
"base": null,
"refs": {
}
},
"GetGrantRequest": {
"base": null,
"refs": {
}
},
"GetGrantResponse": {
"base": null,
"refs": {
}
},
"GetLicenseConfigurationRequest": {
"base": null,
"refs": {
}
},
"GetLicenseConfigurationResponse": {
"base": null,
"refs": {
}
},
"GetLicenseConversionTaskRequest": {
"base": null,
"refs": {
}
},
"GetLicenseConversionTaskResponse": {
"base": null,
"refs": {
}
},
"GetLicenseManagerReportGeneratorRequest": {
"base": null,
"refs": {
}
},
"GetLicenseManagerReportGeneratorResponse": {
"base":
null,
"refs": {
}

```
  },
  "GetLicenseRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseResponse": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseUsageRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseUsageResponse": {
    "base": null,
    "refs": {
    }
  },
  "GetServiceSettingsRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetServiceSettingsResponse": {
    "base": null,
    "refs": {
    }
  },
  "Grant": {
    "base": "<p>Describes a grant.</p>",
    "refs": {
      "GetGrantResponse$Grant": "<p>Grant details.</p>",
      "GrantList$member": null
    }
  },
  "GrantList": {
    "base": null,
    "refs": {
      "ListDistributedGrantsResponse$Grants": "<p>Distributed grant details.</p>",
      "ListReceivedGrantsForOrganizationResponse$Grants": "<p>Lists the grants the organization has
received.</p>",
      "ListReceivedGrantsResponse$Grants":
 "<p>Received grant details.</p>"
    }
  },
```

"GrantStatus": {
"base": null,
"refs": {
"AcceptGrantResponse$Status": " Grant status. ",
"CreateGrantResponse$Status": " Grant status. ",
"CreateGrantVersionRequest$Status": " Grant status. ",
"CreateGrantVersionResponse$Status": " Grant status. ",
"DeleteGrantResponse$Status": " Grant status. ",
"Grant$GrantStatus": " Grant status. ",
"RejectGrantResponse$Status": " Grant status. "
}
},
"GrantedLicense": {
"base": " Describes a license that is granted to a grantee. ",
"refs": {
"GrantedLicenseList$member": null
}
},
"GrantedLicenseList": {
"base": null,
"refs": {
"ListReceivedLicensesForOrganizationResponse$Licenses": " Lists the licenses the organization has received. ",
"ListReceivedLicensesResponse$Licenses": " Received license details. "
}
},
"ISO8601DateTime": {
"base": null,
"refs": {
"CheckoutBorrowLicenseResponse$IssuedAt": " Date and time at which the license checkout is issued. ",
"CheckoutBorrowLicenseResponse$Expiration": " Date and time at which the license checkout expires. ",
"CheckoutLicenseResponse$IssuedAt": " Date and time at which the license checkout is issued. ",
"CheckoutLicenseResponse$Expiration": " Date and time at which the license checkout expires. ",
"DatetimeRange$Begin": " Start of the time range. ",
"DatetimeRange$End": " End of the time range. ",
"DeleteLicenseResponse$DeletionDate": " Date when the license is deleted. ",
"ExtendLicenseConsumptionResponse$Expiration": " Date and time at which the license consumption expires. ",
"GrantedLicense$CreateTime": " Creation time of the granted license. ",
"License$CreateTime": " License creation time. ",
"TokenData$ExpirationTime": " Token expiration time, in ISO8601-UTC format. "
}
},
"Integer": {

"base": null,
"refs": {
"CreateTokenRequest$ExpirationInDays": " Token expiration, in days, counted from token creation. The default is 365 days. ",
"ReportFrequency$value": " Number of times within the frequency period that a report is generated. The only supported value is <code>1</code>. "
}
},
"InvalidParameterValueException": {
"base": " One or more parameter values are not valid. ",
"refs": {
}
},
"InvalidResourceStateException": {
"base": " License Manager cannot allocate a license to a resource because of its state. For example, you cannot allocate a license to an instance in the process of shutting down. ",
"refs": {
}
},
"InventoryFilter": {
"base": " An inventory filter. ",
"refs": {

"InventoryFilterList$member": null
}
},
"InventoryFilterCondition": {
"base": null,
"refs": {
"InventoryFilter$Condition": " Condition of the filter. "
}
},
"InventoryFilterList": {
"base": null,
"refs": {
"ListResourceInventoryRequest$Filters": " Filters to scope the results. The following filters and logical operators are supported: <ul> <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>application_name</code> - The name of the application. Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.   <code>license_included</code> - The type of license included. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. Possible values are <code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-web</code>
| <code>windows-server-datacenter</code>.   <code>platform</code> - The platform of the resource. Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.   <code>resource_id</code> - The ID of the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>tag:<key></code> - The key/value combination of a tag assigned to the resource. Logical operators are <code>EQUALS</code> (single account) or

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<code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account).</p> </li> </ul>"
    }
  },
  "Issuer": {
    "base": "<p>Details about the issuer of a license.</p>",
    "refs": {
      "CreateLicenseRequest$Issuer": "<p>License issuer.</p>",
      "CreateLicenseVersionRequest$Issuer": "<p>License issuer.</p>"
    }
  },
  "IssuerDetails": {
    "base": "<p>Details associated with the issuer of a license.</p>",
    "refs": {
      "GrantedLicense$Issuer": "<p>Granted
 license issuer.</p>",
      "License$Issuer": "<p>License issuer.</p>"
    }
  },
  "License": {
    "base": "<p>Software license that is managed in License Manager.</p>",
    "refs": {
      "GetLicenseResponse$License": "<p>License details.</p>",
      "LicenseList$member": null
    }
  },
  "LicenseConfiguration": {
    "base": "<p>A license configuration is an abstraction of a customer license agreement that can be consumed and
enforced by License Manager. Components include specifications for the license type (licensing by instance, socket,
CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of these), host affinity
(how long a VM must be associated with a host), and the number of licenses purchased and used.</p>",
    "refs": {
      "LicenseConfigurations$member": null
    }
  },
  "LicenseConfigurationAssociation": {
    "base": "<p>Describes an association with a license configuration.</p>",
     "refs": {
      "LicenseConfigurationAssociations$member": null
    }
  },
  "LicenseConfigurationAssociations": {
    "base": null,
    "refs": {
      "ListAssociationsForLicenseConfigurationResponse$LicenseConfigurationAssociations": "<p>Information
about the associations for the license configuration.</p>"
    }
  },
  "LicenseConfigurationStatus": {
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"base": null,
"refs": {
"UpdateLicenseConfigurationRequest$LicenseConfigurationStatus": " New status of the license configuration. "
}
},
"LicenseConfigurationUsage": {
"base": " Details about the usage of a resource associated with a license configuration. ",
"refs": {
"LicenseConfigurationUsageList$member": null
}
},
"LicenseConfigurationUsageList": {
"base": null,
"refs": {
"ListUsageForLicenseConfigurationResponse$LicenseConfigurationUsageList": " Information about the license configurations. "
}

},
"LicenseConfigurations": {
"base": null,
"refs": {
"ListLicenseConfigurationsResponse$LicenseConfigurations": " Information about the license configurations. "
}
},
"LicenseConversionContext": {
"base": " Information about a license type conversion task. ",
"refs": {
"CreateLicenseConversionTaskForResourceRequest$SourceLicenseContext": " Information that identifies the license type you are converting from. For the structure of the source license, see Convert a license type using the CLI in the License Manager User Guide. ",
"CreateLicenseConversionTaskForResourceRequest$DestinationLicenseContext": " Information that identifies the license type you are converting to. For the structure of the destination license, see Convert
a license type using the CLI in the License Manager User Guide. ",
"GetLicenseConversionTaskResponse$SourceLicenseContext": " Information about the license type converted from. ",
"GetLicenseConversionTaskResponse$DestinationLicenseContext": " Information about the license type converted to. ",
"LicenseConversionTask$SourceLicenseContext": " Information about the license type this conversion task converted from. ",
"LicenseConversionTask$DestinationLicenseContext": " Information about the license type this conversion task converted to. "
}

},
"LicenseConversionTask": {
"base": " Information about a license type conversion task. ",
"refs": {
"LicenseConversionTasks$member": null
}
},
"LicenseConversionTaskId": {
"base": null,
"refs": {
"CreateLicenseConversionTaskForResourceResponse$LicenseConversionTaskId":
" The ID of the created license type conversion task. ",
"GetLicenseConversionTaskRequest$LicenseConversionTaskId": " ID of the license type conversion task to retrieve information on. ",
"GetLicenseConversionTaskResponse$LicenseConversionTaskId": " ID of the license type conversion task. ",
"LicenseConversionTask$LicenseConversionTaskId": " The ID of the license type conversion task. "
}
},
"LicenseConversionTaskStatus": {
"base": null,
"refs": {
"GetLicenseConversionTaskResponse$Status": " Status of the license type conversion task. ",
"LicenseConversionTask$Status": " The status of the conversion task. "
}
},
"LicenseConversionTasks": {
"base": null,
"refs": {
"ListLicenseConversionTasksResponse$LicenseConversionTasks": " Information about the license configuration tasks for your account. "
}
},
"LicenseCountingType":
{
"base": null,
"refs": {
"CreateLicenseConfigurationRequest$LicenseCountingType": " Dimension used to track the license inventory. ",
"GetLicenseConfigurationResponse$LicenseCountingType": " Dimension for which the licenses are counted. ",
"LicenseConfiguration$LicenseCountingType": " Dimension to use to track the license inventory. "
}
},
"LicenseDeletionStatus": {
"base": null,
"refs": {
"DeleteLicenseResponse$Status": " License status. "

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    }
  },
  "LicenseList": {
    "base": null,
    "refs": {
      "ListLicenseVersionsResponse$Licenses": "<p>License details.</p>",
      "ListLicensesResponse$Licenses": "<p>License details.</p>"
    }
  },
  "LicenseOperationFailure": {
    "base": "<p>Describes the failure of a license operation.</p>",
    "refs": {
      "LicenseOperationFailureList$member": null
    }
  },
  "LicenseOperationFailureList": {
    "base":
 null,
    "refs": {
      "ListFailuresForLicenseConfigurationOperationsResponse$LicenseOperationFailureList": "<p>License
configuration operations that failed.</p>"
    }
  },
  "LicenseSpecification": {
    "base": "<p>Details for associating a license configuration with a resource.</p>",
    "refs": {
      "LicenseSpecifications$member": null
    }
  },
  "LicenseSpecifications": {
    "base": null,
    "refs": {
      "ListLicenseSpecificationsForResourceResponse$LicenseSpecifications": "<p>License configurations
associated with a resource.</p>",
      "UpdateLicenseSpecificationsForResourceRequest$AddLicenseSpecifications": "<p>ARNs of the license
configurations to add.</p>",
      "UpdateLicenseSpecificationsForResourceRequest$RemoveLicenseSpecifications": "<p>ARNs of the license
configurations to remove.</p>"
    }
  },
  "LicenseStatus": {
    "base": null,
    "refs": {
      "CreateLicenseResponse$Status": "<p>License status.</p>",
       "CreateLicenseVersionRequest$Status": "<p>License status.</p>",
      "CreateLicenseVersionResponse$Status": "<p>License status.</p>",
      "GrantedLicense$Status": "<p>Granted license status.</p>",
      "License$Status": "<p>License status.</p>"
```

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    }
  },
  "LicenseUsage": {
    "base": "<p>Describes the entitlement usage associated with a license.</p>",
    "refs": {
      "GetLicenseUsageResponse$LicenseUsage": "<p>License usage details.</p>"
    }
  },
  "LicenseUsageException": {
    "base": "<p>You do not have enough licenses available to support a new resource launch.</p>",
    "refs": {
    }
  },
  "ListAssociationsForLicenseConfigurationRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListAssociationsForLicenseConfigurationResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListDistributedGrantsRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListDistributedGrantsResponse":
{
    "base": null,
    "refs": {
    }
  },
  "ListFailuresForLicenseConfigurationOperationsRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListFailuresForLicenseConfigurationOperationsResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListLicenseConfigurationsRequest": {
    "base": null,
    "refs": {
    }
```

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  },
  "ListLicenseConfigurationsResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListLicenseConversionTasksRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListLicenseConversionTasksResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListLicenseManagerReportGeneratorsRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListLicenseManagerReportGeneratorsResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListLicenseSpecificationsForResourceRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListLicenseSpecificationsForResourceResponse":
{
    "base": null,
    "refs": {
    }
  },
  "ListLicenseVersionsRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListLicenseVersionsResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListLicensesRequest": {
```

"base": null,
"refs": {
}
},
"ListLicensesResponse": {
"base": null,
"refs": {
}
},
"ListReceivedGrantsForOrganizationRequest": {
"base": null,
"refs": {
}
},
"ListReceivedGrantsForOrganizationResponse": {
"base": null,
"refs": {
}
},
"ListReceivedGrantsRequest": {
"base": null,
"refs": {
}
},
"ListReceivedGrantsResponse": {
"base": null,
"refs": {
}
},
"ListReceivedLicensesForOrganizationRequest": {
"base": null,
"refs": {
}
},
"ListReceivedLicensesForOrganizationResponse": {
"base": null,
"refs": {
}
},
"ListReceivedLicensesRequest":
{
"base": null,
"refs": {
}
},
"ListReceivedLicensesResponse": {
"base": null,
"refs": {

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  }
},
"ListResourceInventoryRequest": {
  "base": null,
  "refs": {
  }
},
"ListResourceInventoryResponse": {
  "base": null,
  "refs": {
  }
},
"ListTagsForResourceRequest": {
  "base": null,
  "refs": {
  }
},
"ListTagsForResourceResponse": {
  "base": null,
  "refs": {
  }
},
"ListTokensRequest": {
  "base": null,
  "refs": {
  }
},
"ListTokensResponse": {
  "base": null,
  "refs": {
  }
},
"ListUsageForLicenseConfigurationRequest": {
  "base": null,
  "refs": {
  }
},
"ListUsageForLicenseConfigurationResponse": {
  "base": null,
  "refs": {
  }
},
"Location": {
  "base": null,
  "refs": {
    "RedirectException$Location": null
  }
},
```

"Long":
{
"base": null,
"refs": {
"Entitlement$MaxCount": " Maximum entitlement count. Use if the unit is not None. "
}
},
"ManagedResourceSummary": {
"base": " Summary information about a managed resource. ",
"refs": {
"ManagedResourceSummaryList$member": null
}
},
"ManagedResourceSummaryList": {
"base": null,
"refs": {
"GetLicenseConfigurationResponse$ManagedResourceSummaryList": " Summaries of the managed resources. ",
"LicenseConfiguration$ManagedResourceSummaryList": " Summaries for managed resources. "
}
},
"MaxSize100": {
"base": null,
"refs": {
"ListDistributedGrantsRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListLicenseManagerReportGeneratorsRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListLicenseVersionsRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListLicensesRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListReceivedGrantsForOrganizationRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListReceivedGrantsRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListReceivedLicensesForOrganizationRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListReceivedLicensesRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListTokensRequest$MaxResults": " Maximum number of results to return in a single call. "
}
},
"MaxSize3StringList": {
"base": null,
"refs": {
"CreateTokenRequest$TokenProperties": " Data specified by the caller to be included in the JWT token. The data is mapped to the amr claim of the JWT token. ",

"GetAccessTokenRequest$TokenProperties": " Token properties to validate against those present in the JWT token. ",
"TokenData$TokenProperties": " Data specified by the caller. "

```
    }
  },
  "Message": {
    "base": null,
    "refs": {
      "AccessDeniedException$Message": null,
      "AuthorizationException$Message": null,
      "ConflictException$Message": null,
      "EntitlementNotAllowedException$Message": null,
      "FailedDependencyException$Message": null,
      "FilterLimitExceededException$Message": null,
      "InvalidParameterValueException$Message": null,
      "InvalidResourceStateException$Message": null,
      "LicenseUsageException$Message": null,
      "NoEntitlementsAllowedException$Message": null,
      "RateLimitExceededException$Message": null,
      "RedirectException$Message": null,
      "ResourceLimitExceededException$Message": null,
      "ResourceNotFoundException$Message": null,
      "ServerInternalException$Message":
null,
      "UnsupportedDigitalSignatureMethodException$Message": null,
      "ValidationException$Message": null
    }
  },
  "Metadata": {
    "base": "<p>Describes key/value pairs.</p>",
    "refs": {
      "MetadataList$member": null
    }
  },
  "MetadataList": {
    "base": null,
    "refs": {
      "CheckoutBorrowLicenseRequest$CheckoutMetadata": "<p>Information about constraints.</p>",
      "CheckoutBorrowLicenseResponse$CheckoutMetadata": "<p>Information about constraints.</p>",
      "CreateLicenseRequest$LicenseMetadata": "<p>Information about the license.</p>",
      "CreateLicenseVersionRequest$LicenseMetadata": "<p>Information about the license.</p>",
      "GrantedLicense$LicenseMetadata": "<p>Granted license metadata.</p>",
      "License$LicenseMetadata": "<p>License metadata.</p>",
      "LicenseOperationFailure$MetadataList": "<p>Reserved.</p>"
    }
  },
  "NoEntitlementsAllowedException": {

   "base": "<p>There are no entitlements found for this license, or the entitlement maximum count is reached.</p>",
    "refs": {
    }
```

},
"Options": {
"base": " The options you can specify when you create a new version of a grant, such as activation override behavior. For more information, see Granted licenses in License Manager in the License Manager User Guide. ",
"refs": {
"CreateGrantVersionRequest$Options": " The options specified for the grant. ",
"Grant$Options": " The options specified for the grant. "
}
},
"OrganizationConfiguration": {
"base": " Configuration information for Organizations. ",
"refs": {
"GetServiceSettingsResponse$OrganizationConfiguration": " Indicates whether Organizations is integrated with License Manager for cross-account discovery. ",
"UpdateServiceSettingsRequest$OrganizationConfiguration": " Enables integration with Organizations for cross-account discovery. "
}
},
"PrincipalArnList": {
"base": null,
"refs": {
"CreateGrantRequest$Principals": " The grant principals. You can specify one of the following as an Amazon Resource Name (ARN): <ul> An Amazon Web Services account, which includes only the account specified.   An organizational unit (OU), which includes all accounts in the OU.   An organization, which will include all accounts across your organization. "
}
},
"ProductInformation": {
"base": " Describes product information for a license configuration. ",
"refs": {
"ProductInformationList$member": null
}
},
"ProductInformationFilter": {
"base": " Describes product information filters. ",
"refs": {
"ProductInformationFilterList$member": null
}
},
"ProductInformationFilterList": {
"base": null,
"refs": {
"ProductInformation$ProductInformationFilterList": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a

<code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. The following filters and are supported when the resource type is <code>SSM_MANAGED</code>: <ul> <code>Application Name</code> - The name of the application. Logical operator is <code>EQUALS</code>.   <code>Application Publisher</code> - The publisher of the application. Logical operator is <code>EQUALS</code>.   <code>Application Version</code> - The version of the application. Logical operator is <code>EQUALS</code>.   <code>Platform Name</code> - The name of the platform. Logical operator is <code>EQUALS</code>.   <code>Platform Type</code> - The platform type. Logical operator is <code>EQUALS</code>.   <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.   <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>.   <code>License Included</code> - The type of license included. Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>. Possible values are: <code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-web</code> | <code>windows-server-datacenter</code>.   The following filters and logical operators are supported when the resource type is <code>RDS</code>: <ul> <code>Engine Edition</code> - The edition of the database engine. Logical operator is <code>EQUALS</code>. Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>.   <code>License Pack</code> - The license pack. Logical operator is <code>EQUALS</code>. Possible values are: <code>data guard</code> | <code>diagnostic pack sqlt</code> | <code>tuning pack sqlt</code> | <code>ols</code> | <code>olap</code>. "
    }
  },
  "ProductInformationList": {
    "base": null,
    "refs": {
      "CreateLicenseConfigurationRequest$ProductInformationList":
" Product information. ",
      "GetLicenseConfigurationResponse$ProductInformationList": " Product information. ",
      "LicenseConfiguration$ProductInformationList": " Product information. ",
      "UpdateLicenseConfigurationRequest$ProductInformationList": " New product information. "
    }
  },
  "ProvisionalConfiguration": {
    "base": " Details about a provisional configuration. ",
    "refs": {
      "ConsumptionConfiguration$ProvisionalConfiguration": " Details about a provisional configuration. "
    }
  },
  "RateLimitExceededException": {
    "base": " Too many requests have been submitted. Try again after a brief wait. ",
    "refs": {
    }

},
"ReceivedMetadata": {
"base": " Metadata associated with received licenses and grants. ",
"refs": {
"GrantedLicense$ReceivedMetadata": " Granted license received metadata. "
}
},
"ReceivedStatus": {
"base": null,
"refs": {
"ReceivedMetadata$ReceivedStatus": " Received status. "
}
},
"RedirectException": {
"base": " This is not the correct Region for the resource. Try again. ",
"refs": {
}
},
"RejectGrantRequest": {
"base": null,
"refs": {
}
},
"RejectGrantResponse": {
"base": null,
"refs": {
}
},
"RenewType": {
"base": null,
"refs": {
"ConsumptionConfiguration$RenewType": " Renewal frequency. "
}
},
"ReportContext": {
"base": " Details of the license configuration that this generator reports on. ",
"refs": {
"CreateLicenseManagerReportGeneratorRequest$ReportContext": " Defines the type of license configuration the report generator tracks. ",
"ReportGenerator$ReportContext": " License configuration type for this generator. ",
"UpdateLicenseManagerReportGeneratorRequest$ReportContext": " The report context. "
}
},
"ReportFrequency": {
"base": " Details about how frequently reports are generated. ",
"refs": {
"CreateLicenseManagerReportGeneratorRequest$ReportFrequency": " Frequency by which reports are

generated. Reports can be generated daily, monthly, or weekly. ",
"ReportGenerator$ReportFrequency": " Details about how frequently reports are generated. ",
"UpdateLicenseManagerReportGeneratorRequest$ReportFrequency": " Frequency by which reports are generated. "
}
},
"ReportFrequencyType": {
"base": null,
"refs": {
"ReportFrequency$period": " Time period between each report. The period can be daily, weekly, or monthly. "
}
},
"ReportGenerator": {
"base": " Describe the details of a report generator. ",
"refs": {
"GetLicenseManagerReportGeneratorResponse$ReportGenerator":
" A report generator that creates periodic reports about your license configurations. ",
"ReportGeneratorList$member": null
}
},
"ReportGeneratorList": {
"base": null,
"refs": {
"ListLicenseManagerReportGeneratorsResponse$ReportGenerators": " A report generator that creates periodic reports about your license configurations. "
}
},
"ReportGeneratorName": {
"base": null,
"refs": {
"CreateLicenseManagerReportGeneratorRequest$ReportGeneratorName": " Name of the report generator. ",
"UpdateLicenseManagerReportGeneratorRequest$ReportGeneratorName": " Name of the report generator. "
}
},
"ReportType": {
"base": null,
"refs": {
"ReportTypeList$member": null
}
},
"ReportTypeList": {
"base": null,
"refs": {
"CreateLicenseManagerReportGeneratorRequest$Type": " Type of reports to generate. The following report types an

be generated: <ul> License configuration report - Reports the number and details of consumed licenses for a license configuration.   Resource report - Reports the tracked licenses and resource consumption for a license configuration. ",
"ReportGenerator$ReportType": " Type of reports that are generated. ",
"UpdateLicenseManagerReportGeneratorRequest$Type": " Type of reports to generate. The following report types are supported: <ul> License configuration report - Reports the number and details of consumed licenses for a license configuration.   Resource report - Reports the tracked licenses and resource consumption for a license configuration. "
}
},
"ResourceInventory": {
"base": " Details about a resource. ",
"refs": {
"ResourceInventoryList$member": null
}
},
"ResourceInventoryList": {
"base": null,
"refs": {
"ListResourceInventoryResponse$ResourceInventoryList": " Information about the resources. "
}
},
"ResourceLimitExceededException": {
"base": " Your resource limits have been exceeded. ",
"refs": {
}
},
"ResourceNotFoundException": {
"base": " The resource cannot be found. ",
"refs": {
}
},
"ResourceType": {
"base": null,
"refs": {
"ConsumedLicenseSummary$ResourceType": " Resource type of the resource consuming a license. ",
"LicenseConfigurationAssociation$ResourceType": " Type of server resource. ",
"LicenseConfigurationUsage$ResourceType": " Type of resource. ",
"LicenseOperationFailure$ResourceType": " Resource type. ",
"ManagedResourceSummary$ResourceType": " Type of resource associated with a license. ",
"ResourceInventory$ResourceType": " Type of resource. "
}
},
"S3Location": {
"base":
" Details of the S3 bucket that report generator reports are published to. ",
"refs": {
"ReportGenerator$S3Location": " Details of the S3 bucket that report generator reports are published

to. "
    }
  },
  "ServerInternalException": {
    "base": " The server experienced an internal error. Try again. ",
    "refs": {
    }
  },
  "SignedToken": {
    "base": null,
    "refs": {
      "CheckoutBorrowLicenseResponse$SignedToken": " Signed token. ",
      "CheckoutLicenseResponse$SignedToken": " Signed token. "
    }
  },
  "StatusReasonMessage": {
    "base": null,
    "refs": {
      "CreateGrantVersionRequest$StatusReason": " Grant status reason. ",
      "DeleteGrantRequest$StatusReason": " The Status reason for the delete request. ",
      "Grant$StatusReason": " Grant status reason. ",
      "ReceivedMetadata$ReceivedStatusReason": " Received status reason. "
    }
  },

"String": {
    "base": null,
    "refs": {
      "AcceptGrantResponse$Version": " Grant version. ",
      "CheckInLicenseRequest$LicenseConsumptionToken": " License consumption token. ",
      "CheckInLicenseRequest$Beneficiary": " License beneficiary. ",
      "CheckoutBorrowLicenseRequest$NodeId": " Node ID. ",
      "CheckoutBorrowLicenseResponse$LicenseConsumptionToken": " License consumption token. ",
      "CheckoutBorrowLicenseResponse$NodeId": " Node ID. ",
      "CheckoutLicenseRequest$ProductSKU": " Product SKU. ",
      "CheckoutLicenseRequest$KeyFingerprint": " Key fingerprint identifying the license. ",
      "CheckoutLicenseRequest$Beneficiary": " License beneficiary. ",
      "CheckoutLicenseRequest$NodeId": " Node ID. ",
      "CheckoutLicenseResponse$LicenseConsumptionToken": " License consumption token. ",
      "CheckoutLicenseResponse$NodeId": " Node ID. ",
      "CheckoutLicenseResponse$LicenseArn":
" Amazon Resource Name (ARN) of the checkout license. ",
      "CreateGrantRequest$GrantName": " Grant name. ",
      "CreateGrantRequest$HomeRegion": " Home Region of the grant. ",
      "CreateGrantResponse$Version": " Grant version. ",
      "CreateGrantVersionRequest$GrantName": " Grant name. ",
      "CreateGrantVersionRequest$SourceVersion": " Current version of the grant. ",
      "CreateGrantVersionResponse$Version": " New version of the grant. ",

"CreateLicenseConfigurationRequest$Name": " Name of the license configuration. ",
"CreateLicenseConfigurationRequest$Description": " Description of the license configuration. ",
"CreateLicenseConfigurationResponse$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the license configuration. ",
"CreateLicenseManagerReportGeneratorRequest$Description": " Description of the report generator. ",
"CreateLicenseManagerReportGeneratorResponse$LicenseManagerReportGeneratorArn": " The Amazon Resource Name (ARN) of the new report generator. ",
"CreateLicenseRequest$LicenseName": " License name. ",
"CreateLicenseRequest$ProductName": " Product name. ",
"CreateLicenseRequest$ProductSKU": " Product SKU. ",
"CreateLicenseRequest$HomeRegion": " Home Region for the license. ",
"CreateLicenseRequest$Beneficiary": " License beneficiary. ",
"CreateLicenseResponse$Version": " License version. ",
"CreateLicenseVersionRequest$LicenseName": " License name. ",
"CreateLicenseVersionRequest$ProductName": " Product name. ",
"CreateLicenseVersionRequest$HomeRegion": " Home Region of the license. ",
"CreateLicenseVersionRequest$SourceVersion": " Current version of the license. ",
"CreateLicenseVersionResponse$Version": " New version of the license. ",
"CreateTokenResponse$TokenId": " Token ID. ",
"DeleteGrantRequest$Version": " Current version of the grant. ",
"DeleteGrantResponse$Version": " Grant version. ",
"DeleteLicenseConfigurationRequest$LicenseConfigurationArn": " ID of the license configuration. ",
"DeleteLicenseManagerReportGeneratorRequest$LicenseManagerReportGeneratorArn": " Amazon Resource Name (ARN) of the report generator to be deleted. ",
"DeleteLicenseRequest$SourceVersion": " Current version of the license. ",
"DeleteTokenRequest$TokenId": " Token ID. ",
"Entitlement$Name": " Entitlement name. ",
"Entitlement$Value": " Entitlement resource. Use only if the unit is None. ",
"EntitlementData$Name": " Entitlement data name. ",
"EntitlementData$Value": " Entitlement data value. ",
"EntitlementUsage$Name": " Entitlement usage name. ",
"EntitlementUsage$ConsumedValue": " Resource usage consumed. ",
"EntitlementUsage$MaxCount": " Maximum entitlement usage count. ",
"ExtendLicenseConsumptionRequest$LicenseConsumptionToken": " License consumption token. ",
"ExtendLicenseConsumptionResponse$LicenseConsumptionToken": " License consumption token. ",
"FailedDependencyException$ErrorCode": null,
"GetGrantRequest$Version": " Grant version. ",
"GetLicenseConfigurationRequest$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the license configuration. ",
"GetLicenseConfigurationResponse$LicenseConfigurationId": " Unique ID for the license configuration. ",
"GetLicenseConfigurationResponse$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the license configuration. ",
"GetLicenseConfigurationResponse$Name": " Name of the license configuration. ",
"GetLicenseConfigurationResponse$Description": " Description of the license

configuration. ",
"GetLicenseConfigurationResponse$Status": " License configuration status. ",
"GetLicenseConfigurationResponse$OwnerAccountId": " Account ID of the owner of the license configuration. ",
"GetLicenseConversionTaskResponse$ResourceArn": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. ",
"GetLicenseConversionTaskResponse$StatusMessage": " The status message for the conversion task. ",
"GetLicenseManagerReportGeneratorRequest$LicenseManagerReportGeneratorArn": " Amazon Resource Name (ARN) of the report generator. ",
"GetLicenseRequest$Version": " License version. ",
"GetServiceSettingsResponse$S3BucketArn": " Regional S3 bucket path for storing reports, license trail event data, discovery data, and so on. ",
"GetServiceSettingsResponse$SnsTopicArn": " SNS topic configured to receive notifications from License Manager. ",
"GetServiceSettingsResponse$LicenseManagerResourceShareArn": " Amazon Resource Name (ARN) of the resource share. The License Manager management account provides member accounts with access to this share. ",
"Grant$GrantName": " Grant name. ",
"Grant$HomeRegion": " Home Region of the grant. ",
"Grant$Version": " Grant version. ",
"GrantedLicense$LicenseName": " License name. ",
"GrantedLicense$ProductName": " Product name. ",
"GrantedLicense$ProductSKU": " Product SKU. ",
"GrantedLicense$HomeRegion": " Home Region of the granted license. ",
"GrantedLicense$Beneficiary": " Granted license beneficiary. ",
"GrantedLicense$Version": " Version of the granted license. ",
"InventoryFilter$Name": " Name of the filter. ",
"InventoryFilter$Value": " Value of the filter. ",
"Issuer$Name": " Issuer name. ",
"Issuer$SignKey":
" Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm. ",
"IssuerDetails$Name": " Issuer name. ",
"IssuerDetails$SignKey": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm. ",
"IssuerDetails$KeyFingerprint": " Issuer key fingerprint. ",
"License$LicenseName": " License name. ",
"License$ProductName": " Product name. ",
"License$ProductSKU": " Product SKU. ",
"License$HomeRegion": " Home Region of the license. ",
"License$Beneficiary": " License beneficiary. ",
"License$Version": " License version. ",
"LicenseConfiguration$LicenseConfigurationId": " Unique ID of the license configuration. ",
"LicenseConfiguration$LicenseConfigurationArn":
" Amazon Resource Name (ARN) of the license configuration. ",
"LicenseConfiguration$Name": " Name of the license configuration. ",
"LicenseConfiguration$Description": " Description of the license configuration. ",
"LicenseConfiguration$Status": " Status of the license configuration. ",

"LicenseConfiguration$OwnerAccountId": " Account ID of the license configuration's owner. ",
"LicenseConfigurationAssociation$ResourceArn": " Amazon Resource Name (ARN) of the resource. ",
"LicenseConfigurationAssociation$ResourceOwnerId": " ID of the Amazon Web Services account that owns the resource consuming licenses. ",
"LicenseConfigurationAssociation$AmiAssociationScope": " Scope of AMI associations. The possible value is <code>cross-account</code>. ",
"LicenseConfigurationUsage$ResourceArn": " Amazon Resource Name (ARN) of the resource. ",
"LicenseConfigurationUsage$ResourceStatus": " Status of the resource. ",
"LicenseConfigurationUsage$ResourceOwnerId": " ID of the account that owns the resource. ",
"LicenseConversionTask$ResourceArn": " The Amazon Resource Name (ARN) of the resource associated with the license type conversion task. ",
"LicenseConversionTask$StatusMessage": " The status message for the conversion task. ",
"LicenseOperationFailure$ResourceArn": " Amazon Resource Name (ARN) of the resource. ",
"LicenseOperationFailure$ErrorMessage": " Error message. ",
"LicenseOperationFailure$OperationName": " Name of the operation. ",
"LicenseOperationFailure$ResourceOwnerId": " ID of the Amazon Web Services account that owns the resource. ",
"LicenseOperationFailure$OperationRequestedBy": " The requester is \"License Manager Automated Discovery\". ",
"LicenseSpecification$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the license configuration. ",
"LicenseSpecification$AmiAssociationScope": " Scope of AMI associations. The possible value is <code>cross-account</code>. ",
"ListAssociationsForLicenseConfigurationRequest$LicenseConfigurationArn": " Amazon Resource Name (ARN) of a license configuration. ",
"ListAssociationsForLicenseConfigurationRequest$NextToken": " Token for the next set of results. ",
"ListAssociationsForLicenseConfigurationResponse$NextToken": " Token for the next set of results. ",
"ListDistributedGrantsRequest$NextToken": " Token for the next set of results. ",
"ListDistributedGrantsResponse$NextToken": " Token for the next set of results. ",
"ListFailuresForLicenseConfigurationOperationsRequest$LicenseConfigurationArn": " Amazon Resource Name of the license configuration. ",
"ListFailuresForLicenseConfigurationOperationsRequest$NextToken": " Token for the next set of results. ",

"ListFailuresForLicenseConfigurationOperationsResponse$NextToken": " Token for the next set of results. ",
"ListLicenseConfigurationsRequest$NextToken": " Token for the next set of results. ",
"ListLicenseConfigurationsResponse$NextToken": " Token for the next set of results. ",
"ListLicenseConversionTasksRequest$NextToken": " Token for the next set of results. ",
"ListLicenseConversionTasksResponse$NextToken": " Token for the next set of results. ",
"ListLicenseManagerReportGeneratorsRequest$NextToken": " Token for the next set of results. ",
"ListLicenseManagerReportGeneratorsResponse$NextToken": " Token for the next set of results. ",
"ListLicenseSpecificationsForResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of a resource that has an associated license configuration. ",
"ListLicenseSpecificationsForResourceRequest$NextToken": " Token for the next set of results. ",
"ListLicenseSpecificationsForResourceResponse$NextToken": " Token for the next set of results. ",
"ListLicenseVersionsRequest$NextToken": " Token for the next set of results. ",

"ListLicenseVersionsResponse$NextToken": " Token for the next set of results. ",
"ListLicensesRequest$NextToken": " Token for the next set of results. ",
"ListLicensesResponse$NextToken": " Token for the next set of results. ",
"ListReceivedGrantsForOrganizationRequest$NextToken": " Token for the next set of results. ",
"ListReceivedGrantsForOrganizationResponse$NextToken": " Token for the next set of results. ",
"ListReceivedGrantsRequest$NextToken": " Token for the next set of results. ",
"ListReceivedGrantsResponse$NextToken": " Token for the next set of results. ",
"ListReceivedLicensesForOrganizationRequest$NextToken": " Token for the next set of results. ",
"ListReceivedLicensesForOrganizationResponse$NextToken":
" Token for the next set of results. ",
"ListReceivedLicensesRequest$NextToken": " Token for the next set of results. ",
"ListReceivedLicensesResponse$NextToken": " Token for the next set of results. ",
"ListResourceInventoryRequest$NextToken": " Token for the next set of results. ",
"ListResourceInventoryResponse$NextToken": " Token for the next set of results. ",
"ListTagsForResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of the license configuration. ",
"ListTokensRequest$NextToken": " Token for the next set of results. ",
"ListTokensResponse$NextToken": " Token for the next set of results. ",
"ListUsageForLicenseConfigurationRequest$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the license configuration. ",
"ListUsageForLicenseConfigurationRequest$NextToken": " Token for the next set of results. ",
"ListUsageForLicenseConfigurationResponse$NextToken": " Token for the next set of results. ",
"MaxSize3StringList$member": null,
"Metadata$Name": " The key name. ",
"Metadata$Value": " The value. ",
"ProductInformation$ResourceType": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"ProductInformationFilter$ProductInformationFilterName": " Filter name. ",
"ProductInformationFilter$ProductInformationFilterComparator": " Logical operator. ",
"RejectGrantResponse$Version": " Grant version. ",
"ReportGenerator$ReportGeneratorName": " Name of the report generator. ",
"ReportGenerator$LicenseManagerReportGeneratorArn": " Amazon Resource Name (ARN) of the report generator. ",
"ReportGenerator$LastRunStatus": " Status of the last report generation attempt. ",
"ReportGenerator$LastRunFailureReason": " Failure
message for the last report generation attempt. ",
"ReportGenerator$LastReportGenerationTime": " Time the last report was generated at. ",
"ReportGenerator$ReportCreatorAccount": " The Amazon Web Services account ID used to create the report generator. ",
"ReportGenerator$Description": " Description of the report generator. ",
"ReportGenerator$CreateTime": " Time the report was created. ",
"ResourceInventory$ResourceId": " ID of the resource. ",
"ResourceInventory$ResourceArn": " Amazon Resource Name (ARN) of the resource. ",
"ResourceInventory$Platform": " Platform of the resource. ",
"ResourceInventory$PlatformVersion": " Platform version of the resource in the inventory. ",
"ResourceInventory$ResourceOwningAccountId": " ID of the account that owns the resource. ",
"S3Location$bucket": " Name of the S3 bucket reports are published to. ",

"S3Location$keyPrefix": " Prefix of the S3 bucket reports are published to. ",
"StringList$member": null,
"Tag$Key": " Tag key. ",
"Tag$Value": " Tag value. ",
"TagKeyList$member": null,
"TagResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of the license configuration. ",
"TokenData$TokenId": " Token ID. ",
"TokenData$TokenType": " Type of token generated. The supported value is <code>REFRESH_TOKEN</code>. ",
"TokenData$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"TokenData$Status": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. ",
"UntagResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of the license configuration. ",
"UpdateLicenseConfigurationRequest$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the license configuration. ",
"UpdateLicenseConfigurationRequest$Name": " New name of the license configuration. ",
"UpdateLicenseConfigurationRequest$Description": " New description of the license configuration. ",
"UpdateLicenseManagerReportGeneratorRequest$LicenseManagerReportGeneratorArn": " Amazon Resource Name (ARN) of the report generator to update. ",
"UpdateLicenseManagerReportGeneratorRequest$Description": " Description of the report generator. ",
"UpdateLicenseSpecificationsForResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of the Amazon Web Services resource. ",
"UpdateServiceSettingsRequest$S3BucketArn": " Amazon Resource Name (ARN) of the Amazon S3 bucket where the License Manager information is stored. ",
"UpdateServiceSettingsRequest$SnsTopicArn": " Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
}
},
"StringList": {
"base": null,
"refs": {
"CreateLicenseConfigurationRequest$LicenseRules": " License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules vary by dimension, as follows.   <code>Cores</code> dimension: <code>allowedTenancy</code> | <code>licenseAffinityToHost</code> | <code>maximumCores</code> | <code>minimumCores</code>   <code>Instances</code> dimension: <code>allowedTenancy</code> | <code>maximumCores</code> | <code>minimumCores</code> | <code>maximumSockets</code> | <code>minimumSockets</code> | <code>maximumVcpus</code> | <code>minimumVcpus</code>   <code>Sockets</code> dimension: <code>allowedTenancy</code> | <code>licenseAffinityToHost</code> | <code>maximumSockets</code> | <code>minimumSockets</code>   <code>vCPUs</code> dimension: <code>allowedTenancy</code> | <code>honorVcpuOptimization</code> | <code>maximumVcpus</code> | <code>minimumVcpus</code>   The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are <code>True</code> and <code>False</code>. ",

"GetLicenseConfigurationResponse$LicenseRules": " License rules. ",
"LicenseConfiguration$LicenseRules": " License rules. ",
"ListLicenseConfigurationsRequest$LicenseConfigurationArns": " Amazon Resource Names (ARN) of the license configurations. ",
"ListTokensRequest$TokenIds": " Token IDs. ",
"ProductInformationFilter$ProductInformationFilterValue": " Filter value. ",
"UpdateLicenseConfigurationRequest$LicenseRules": " New license rule. The only rule that you can add after you create a license configuration is licenseAffinityToHost. "
}
},
"Tag": {
"base": " Details about a tag
for a license configuration. ",
"refs": {
"TagList$member": null
}
},
"TagKeyList": {
"base": null,
"refs": {
"UntagResourceRequest$TagKeys": " Keys identifying the tags to remove. "
}
},
"TagList": {
"base": null,
"refs": {
"CreateLicenseConfigurationRequest$Tags": " Tags to add to the license configuration. ",
"CreateLicenseManagerReportGeneratorRequest$Tags": " Tags to add to the report generator. ",
"GetLicenseConfigurationResponse$Tags": " Tags for the license configuration. ",
"ListTagsForResourceResponse$Tags": " Information about the tags. ",
"ReportGenerator$Tags": " Tags associated with the report generator. ",
"TagResourceRequest$Tags": " One or more tags. "
}
},
"TagResourceRequest": {
"base": null,
"refs": {
}
},
"TagResourceResponse": {
"base": null,
"refs": {

}
},
"TokenData": {
"base": " Describes a token. ",
"refs": {

```
      "TokenList$member": null
    }
  },
  "TokenList": {
    "base": null,
    "refs": {
      "ListTokensResponse$Tokens": "<p>Received token details.</p>"
    }
  },
  "TokenString": {
    "base": null,
    "refs": {
      "CreateTokenResponse$Token": "<p>Refresh token, encoded as a JWT token.</p>",
      "GetAccessTokenRequest$Token": "<p>Refresh token, encoded as a JWT token.</p>",
      "GetAccessTokenResponse$AccessToken": "<p>Temporary access token.</p>"
    }
  },
  "TokenType": {
    "base": null,
    "refs": {
      "CreateTokenResponse$TokenType": "<p>Token type.</p>"
    }
  },
  "UnsupportedDigitalSignatureMethodException": {
    "base": "<p>The digital signature method is unsupported. Try your request again.</p>",
    "refs": {
    }
  },
  "UntagResourceRequest": {
    "base": null,
    "refs": {
    }
  },
  "UntagResourceResponse":
{
    "base": null,
    "refs": {
    }
  },
  "UpdateLicenseConfigurationRequest": {
    "base": null,
    "refs": {
    }
  },
  "UpdateLicenseConfigurationResponse": {
    "base": null,
    "refs": {
    }
```

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  },
  "UpdateLicenseManagerReportGeneratorRequest": {
    "base": null,
    "refs": {
    }
  },
  "UpdateLicenseManagerReportGeneratorResponse": {
    "base": null,
    "refs": {
    }
  },
  "UpdateLicenseSpecificationsForResourceRequest": {
    "base": null,
    "refs": {
    }
  },
  "UpdateLicenseSpecificationsForResourceResponse": {
    "base": null,
    "refs": {
    }
  },
  "UpdateServiceSettingsRequest": {
    "base": null,
    "refs": {
    }
  },
  "UpdateServiceSettingsResponse": {
    "base": null,
    "refs": {
    }
  },
  "UsageOperation": {
    "base": null,
    "refs": {
      "LicenseConversionContext$UsageOperation": "<p>The Usage operation value
 that corresponds to the license type you are converting your resource from. For more information about which
platforms correspond to which usage operation values see <a
href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-fields.html#billing-info\">Sample
data: usage operation by platform </a> </p>"
    }
  },
  "ValidationException": {
    "base": "<p>The provided input is not valid. Try your request again.</p>",
    "refs": {
    }
  }
 }
}
```

```
{
  "testCases": [
    {
      "documentation": "For region af-south-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.af-south-1.amazonaws.com"
        }
      },
      "params": {
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        "UseDualStack": false,
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    },
    {
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        "Region": "ap-east-1"
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      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-northeast-2.amazonaws.com"
        }
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```
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          "Region": "ap-northeast-2"
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        "expect": {
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          "UseDualStack": false,
          "Region": "ap-northeast-3"
        }
      },
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        "expect": {
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            "url": "https://license-manager.ap-south-1.amazonaws.com"
          }
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        "params": {
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          "UseDualStack": false,
          "Region": "ap-south-1"
        }
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          }
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        "params": {
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false,
          "Region": "ap-southeast-1"
        }
      },
      {
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"expect": {
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"url": "https://license-manager.ap-southeast-2.amazonaws.com"
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"params": {
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"UseDualStack": false,
"Region": "ap-southeast-2"
}
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"documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
"expect": {
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"url": "https://license-manager.ap-southeast-3.amazonaws.com"
}
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"params": {
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"UseDualStack": false,
"Region": "ap-southeast-3"
}
},
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"documentation":
"For region ca-central-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ca-central-1.amazonaws.com"
}
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"params": {
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"UseDualStack": false,
"Region": "ca-central-1"
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"documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
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}
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"params": {
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"UseDualStack": false,
"Region": "eu-central-1"
}
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"documentation": "For region eu-north-1 with FIPS disabled and DualStack disabled",
"expect": {
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{
"url": "https://license-manager.eu-north-1.amazonaws.com"
}
},
"params": {
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"UseDualStack": false,
"Region": "eu-north-1"
}
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"documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-south-1.amazonaws.com"
}
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"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "eu-south-1"
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"documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
"expect": {
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"url": "https://license-manager.eu-west-1.amazonaws.com"
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"params":
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"Region": "eu-west-1"
}
},
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"documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
"expect": {

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                "url": "https://license-manager.eu-west-2.amazonaws.com"
            }
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            "Region": "eu-west-2"
        }
    },
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        "expect": {
            "endpoint": {
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            }
        },
        "params": {
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            "UseDualStack": false,
            "Region": "eu-west-3"
        }

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        "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.me-south-1.amazonaws.com"
            }
        },
        "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Region": "me-south-1"
        }
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        "documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
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            }
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        "params": {
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            "UseDualStack": false,
            "Region": "sa-east-1"
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    "expect": {

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    "params": {
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        "UseDualStack": false,
        "Region": "us-east-1"
    }
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    "expect": {
        "endpoint": {
            "url": "https://license-manager-fips.us-east-1.amazonaws.com"
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    "params": {
        "UseFIPS": true,
        "UseDualStack": false,
        "Region": "us-east-1"
    }
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    "documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.us-east-2.amazonaws.com"
        }
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 "params": {
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        "UseDualStack": false,
        "Region": "us-east-2"
    }
},
{
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    "expect": {
        "endpoint": {
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        }
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        "UseDualStack": false,
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      "documentation": "For region us-west-1 with FIPS disabled and DualStack disabled",
      "expect": {
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          "url": "https://license-manager.us-west-1.amazonaws.com"
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      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "us-west-1"

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        "Region": "us-west-1"
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        "UseDualStack": false,
        "Region": "us-west-2"
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        "UseDualStack": false,
        "Region": "us-west-2"
      }
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          "url": "https://license-manager.us-east-1.api.aws"
        }
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        "UseDualStack": true,
        "Region": "us-east-1"
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      "expect": {
        "endpoint": {
          "url": "https://license-manager.cn-north-1.amazonaws.com.cn"
        }
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    "params": {
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        "UseDualStack": false,
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    "documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
    "expect": {
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            "url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
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    }
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    "expect": {
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        }
    },
    "params": {
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        "UseDualStack": false,
        "Region": "cn-north-1"
    }
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{
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and DualStack enabled",
"expect": {
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"url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
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"params": {
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"UseDualStack": true,
"Region": "cn-north-1"
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"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-gov-east-1.amazonaws.com"
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"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "us-gov-east-1"
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"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
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"params": {
"UseFIPS": true,
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"Region": "us-gov-east-1"
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"documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
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        "UseDualStack": false,
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        }
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        "UseDualStack": true,
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      }
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      "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
      "expect": {
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        }
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      "params": {
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        "UseDualStack": true,
        "Region": "us-gov-east-1"
      }

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    {
      "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
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"url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
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{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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"params": {
"UseFIPS": true,
"UseDualStack": true,
"Region": "us-iso-east-1"
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"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
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"UseDualStack": false,
"Region": "us-iso-east-1"
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"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
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"Region": "us-iso-east-1"
}
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"expect": {

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            }
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            "UseDualStack": false,
            "Region": "us-isob-east-1"
        }
    },
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        "expect": {
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            "Region": "us-isob-east-1"
        }
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        "expect": {
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            }
        },
        "params": {
            "UseFIPS": true,
            "UseDualStack": false,
            "Region": "us-isob-east-1"
        }
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    {
        "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
        "expect": {
            "error": "DualStack is enabled but this partition does not support DualStack"
        },
        "params": {
            "UseFIPS": false,
            "UseDualStack": true,
            "Region": "us-isob-east-1"
        }
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    {
        "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
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    },
    "params": {
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      "UseDualStack": false,
      "Region": "us-east-1",
      "Endpoint": "https://example.com"
    }
  },
  {
    "documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
    "expect": {
      "endpoint": {
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      }
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": false,
      "Endpoint": "https://example.com"
    }
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    "expect": {
      "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
    },
    "params": {
      "UseFIPS": true,
      "UseDualStack": false,
      "Region": "us-east-1",
      "Endpoint": "https://example.com"
    }
  },
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    "documentation": "For custom endpoint with fips disabled and dualstack enabled",
    "expect": {
      "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": true,
      "Region": "us-east-1",
      "Endpoint": "https://example.com"
    }
```

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      },
      {
         "documentation": "Missing region",
         "expect": {
            "error": "Invalid Configuration: Missing Region"
         }
      }
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   "version": "1.0"
}
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   "parameters": {
      "Region": {
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         "required": false,
         "documentation": "The AWS region used to dispatch the request.",
         "type": "String"
      },
      "UseDualStack": {
         "builtIn": "AWS::UseDualStack",
         "required": true,
         "default": false,
         "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
         "type": "Boolean"
      },
      "UseFIPS": {
         "builtIn": "AWS::UseFIPS",
         "required": true,
         "default": false,
         "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
         "type": "Boolean"
      },
      "Endpoint": {

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         "type": "String"
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            "ref": "Endpoint"
          }
        ]
      }
    ],
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            "fn": "booleanEquals",
            "argv": [
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                "ref": "UseFIPS"
              },
              true
            ]
          }
        ],
        "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
         "type": "error"
      },
      {
        "conditions": [],
        "rules": [
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            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
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                    "ref": "UseDualStack"
                  },
                  true
                ]
              }
            ],
            "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
            "type": "error"
          },
          {
            "conditions": [],
            "endpoint": {
              "url": {

              "ref": "Endpoint"
              },
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                "headers": {}
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            "type": "endpoint"
        }
    ],
    "type": "tree"
  }
],
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},
{
  "conditions": [],
  "rules": [
    {
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          "argv": [
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              "ref": "Region"
            }
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"fn": "aws.partition",
              "argv": [
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                  "ref": "Region"
                }
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              "assign": "PartitionResult"
            }
          ],
          "rules": [
            {
              "conditions": [
                {
                  "fn": "booleanEquals",
                  "argv": [
                    {
                      "ref": "UseFIPS"
                    },
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                    true
                ]
            },

        {
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                "argv": [
                    {
                        "ref": "UseDualStack"
                    },
                    true
                ]
            }
        ],
        "rules": [
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                        "argv": [
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                                "argv": [
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                                        "ref": "PartitionResult"
                                    },
                                    "supportsFIPS"
                                ]
                            }
                        ]
                    },
                    {
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                        "argv": [
                            true,
                            {

"fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsDualStack"
                                ]
                            }
                        ]
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                        "conditions": [],
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                            {

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fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                    "properties": {},
                                    "headers": {}
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                    }
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                "type": "tree"
            },

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both",
                "type": "error"
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        "type": "tree"
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                    },
                    true
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        "rules": [
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                          },
                          "supportsFIPS"
                        ]

},
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                    ]
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fips.{Region}.{PartitionResult#dnsSuffix}",
                          "properties": {},
                          "headers": {}

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                    "type": "tree"
                  }
                ],
                "type": "tree"
              },
              {
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                "error": "FIPS is enabled but this partition does not support FIPS",
                "type": "error"
              }
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            "type": "tree"
          },
          {
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]
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{
"conditions": [
{
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"argv": [
true,

{
"fn": "getAttr",
"argv": [
{
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"Settings":{"shape":"Settings"}
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"Username":{"shape":"String"}
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"IdentityProvider":{"shape":"IdentityProvider"},
"Product":{"shape":"String"},
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"Subnet":{
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"exception":true
}
}
}

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"protocols":["rest-json"],
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"serviceId":"License Manager Linux Subscriptions",
"signatureVersion":"v4",
"signingName":"license-manager-linux-subscriptions",
"uid":"license-manager-linux-subscriptions-2018-05-10",
"auth":["aws.auth#sigv4"]
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"FilterList":{
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"SubscriptionProviderSource":{"shape":"SubscriptionProviderSource"},
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"LinuxSubscriptionsDiscoverySettings":{"shape":"LinuxSubscriptionsDiscoverySettings"},
"Status":{"shape":"Status"},
"StatusMessage":{"shape":"StringMap"}
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"DualSubscription":{"shape":"String"},
"InstanceID":{"shape":"String"},
"InstanceType":{"shape":"String"},
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"OsVersion":{"shape":"String"},
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"SubscriptionProviderUpdateTime":{"shape":"String"},
"UsageOperation":{"shape":"String"}
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"LinuxSubscriptionsDiscoverySettings":{
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"OrganizationIntegration",
"SourceRegions"
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"SourceRegions":{"shape":"StringList"}
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"ListLinuxSubscriptionInstancesRequest":{
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"NextToken":{"shape":"String"}
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"ListLinuxSubscriptionsRequest":{
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"ListRegisteredSubscriptionProvidersRequest":{
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  "members":{
    "MaxResults":{"shape":"ListRegisteredSubscriptionProvidersRequestMaxResultsInteger"},
     "NextToken":{"shape":"String"},
    "SubscriptionProviderSources":{"shape":"SubscriptionProviderSourceList"}
  }
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"ListRegisteredSubscriptionProvidersRequestMaxResultsInteger":{
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"ListRegisteredSubscriptionProvidersResponse":{
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  "members":{
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  "required":["resourceArn"],
  "members":{
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      "location":"uri",
      "locationName":"resourceArn"
    }
  }
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"OrganizationIntegration":{
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"ProductCodeList":{
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    "SubscriptionProviderSource"
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    "SubscriptionProviderSource":{"shape":"SubscriptionProviderSource"},
    "Tags":{"shape":"Tags"}
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    "SubscriptionProviderStatus":{"shape":"SubscriptionProviderStatus"}
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"SubscriptionProviderSource":{"shape":"SubscriptionProviderSource"},
"SubscriptionProviderStatus":{"shape":"SubscriptionProviderStatus"},
"SubscriptionProviderStatusMessage":{"shape":"String"}
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"ResourceNotFoundException":{
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"Status":{
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"Completed",
"Successful",
"Failed"
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"Type":{"shape":"String"}
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"SubscriptionProviderStatus":{
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"INVALID",
"PENDING"
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"tags"
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"sensitive":true
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"tagKeys"
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"location":"uri",
"locationName":"resourceArn"
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"tagKeys":{
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"location":"querystring",
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      "LinuxSubscriptionsDiscoverySettings"
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      "LinuxSubscriptionsDiscovery":{"shape":"LinuxSubscriptionsDiscovery"},
      "LinuxSubscriptionsDiscoverySettings":{"shape":"LinuxSubscriptionsDiscoverySettings"}
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          "required": false,
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"type": "String"
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"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
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"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
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"documentation": "Override the endpoint used to send this request",
"type": "String"
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}
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"ref": "UseFIPS"

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true

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```

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            ]
          }
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        "type": "error"
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]
}
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  "testCases": [
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      "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
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      },
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          "UseDualStack": true
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            "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
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        },
        "params": {
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"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
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"url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
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},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
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},
"params": {
"Region": "us-gov-east-1",

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        "UseFIPS": true,
        "UseDualStack": true
    }
},
{
    "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
        "endpoint": {
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        "UseDualStack": false
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        "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
    },
```

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      "UseDualStack": true
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      }
    },
    "params": {
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      "UseFIPS": true,
      "UseDualStack": false
    }
  },
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    "expect": {
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    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": false,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
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      "UseFIPS": false,
      "UseDualStack": false
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"UseDualStack": false
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"expect": {
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},
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"expect": {
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}
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"params": {
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"UseDualStack": false
}
},
{

"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {

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          }
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        "params": {
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          "UseFIPS": false,
          "UseDualStack": false,
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        }
      },
      {
        "documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
        "expect": {
          "endpoint": {
            "url": "https://example.com"
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      {
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        "expect":
{
          "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
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        "documentation": "For custom endpoint with fips disabled and dualstack enabled",
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          "UseDualStack": true,
          "Endpoint": "https://example.com"
        }
      },
```

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    {
      "documentation": "Missing region",
      "expect": {
        "error": "Invalid Configuration: Missing Region"
      }
    }
  ],
  "version": "1.0"
}
```


1.4716 gorilla-mux 1.8.1

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1.4717 libxml2 2.9.13+dfsg-1ubuntu0.5

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Upstream-Name: libxml2
Source: ftp://xmlsoft.org/libxml2/
Files-Excluded:
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test
Comment:
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1.4718 azure-sdk-for-go-sdk-internal v1.3.0

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1.4719 libmbim 1.28.0-1~ubuntu20.04.2

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1.4726 @npmcli/package-json 6.1.1

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1.4727 black 25.1.0

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```
# https://docs.github.com/en/code-security/supply-chain-security/keeping-your-dependencies-updated-automatically/configuration-options-for-dependency-updates

version: 2
updates:
 - package-ecosystem: "github-actions"
   # Workflow files in .github/workflows will be checked
   directory: "/"
   schedule:
     interval: "weekly"
   labels: ["skip news", "C: dependencies"]

 - package-ecosystem: "pip"
   directory: "docs/"
   schedule:
     interval: "weekly"
   labels: ["skip news", "C: dependencies", "T: documentation"]
name: diff-shades

on:
 push:
   branches: [main]
   paths: ["src/**", "pyproject.toml", ".github/workflows/*"]

 pull_request:
   paths: ["src/**", "pyproject.toml", ".github/workflows/*"]

concurrency:
```

```
 group: ${{ github.workflow }}-${{ github.event.pull_request.number || github.run_id }}
 cancel-in-progress: true

jobs:
 configure:
   runs-on: ubuntu-latest
   outputs:
     matrix: ${{ steps.set-config.outputs.matrix }}

   steps:
     - uses: actions/checkout@v4
     - uses: actions/setup-python@v5
       with:
         python-version: "3.11"

     - name: Install diff-shades and support dependencies
       run: |
         python -m pip install 'click>=8.1.7' packaging urllib3
         python -m pip install https://github.com/ichard26/diff-shades/archive/stable.zip

     - name: Calculate run configuration & metadata
       id: set-config
       env:
         GITHUB_TOKEN: ${{ github.token }}
       run: >
         python scripts/diff_shades_gha_helper.py config
${{ github.event_name }} ${{ matrix.mode }}

 analysis:
   name: analysis / ${{ matrix.mode }}
   needs: configure
   runs-on: ubuntu-latest
   env:
     HATCH_BUILD_HOOKS_ENABLE: "1"
     # Clang is less picky with the C code it's given than gcc (and may
     # generate faster binaries too).
     CC: clang-18
   strategy:
     fail-fast: false
     matrix:
       include: ${{ fromJson(needs.configure.outputs.matrix )}}

   steps:
     - name: Checkout this repository (full clone)
       uses: actions/checkout@v4
       with:
         # The baseline revision could be rather old so a full clone is ideal.
         fetch-depth: 0
```

```
    - uses: actions/setup-python@v5
      with:
        python-version: "3.11"

    - name: Install diff-shades and support dependencies
      run: |
        python -m pip install https://github.com/ichard26/diff-shades/archive/stable.zip
        python -m pip install 'click>=8.1.7' packaging urllib3
        # After checking
out old revisions, this might not exist so we'll use a copy.
        cat scripts/diff_shades_gha_helper.py > helper.py
        git config user.name "diff-shades-gha"
        git config user.email "diff-shades-gha@example.com"

    - name: Attempt to use cached baseline analysis
      id: baseline-cache
      uses: actions/cache@v4
      with:
        path: ${{ matrix.baseline-analysis }}
        key: ${{ matrix.baseline-cache-key }}

    - name: Build and install baseline revision
      if: steps.baseline-cache.outputs.cache-hit != 'true'
      env:
        GITHUB_TOKEN: ${{ github.token }}
      run: >
        ${{ matrix.baseline-setup-cmd }}
        && python -m pip install .

    - name: Analyze baseline revision
      if: steps.baseline-cache.outputs.cache-hit != 'true'
      run: >
        diff-shades analyze -v --work-dir projects-cache/
        ${{ matrix.baseline-analysis }} ${{ matrix.force-flag }}

    - name: Build and install
target revision
      env:
        GITHUB_TOKEN: ${{ github.token }}
      run: >
        ${{ matrix.target-setup-cmd }}
        && python -m pip install .

    - name: Analyze target revision
      run: >
        diff-shades analyze -v --work-dir projects-cache/
        ${{ matrix.target-analysis }} --repeat-projects-from
```

```
        ${{ matrix.baseline-analysis }} ${{ matrix.force-flag }}

    - name: Generate HTML diff report
      run: >
        diff-shades --dump-html diff.html compare --diff
        ${{ matrix.baseline-analysis }} ${{ matrix.target-analysis }}

    - name: Upload diff report
      uses: actions/upload-artifact@v3
      with:
        name: ${{ matrix.mode }}-diff.html
        path: diff.html

    - name: Upload baseline analysis
      uses: actions/upload-artifact@v3
      with:
        name: ${{ matrix.baseline-analysis }}
        path: ${{ matrix.baseline-analysis }}

    - name: Upload target analysis
      uses:
actions/upload-artifact@v3
      with:
        name: ${{ matrix.target-analysis }}
        path: ${{ matrix.target-analysis }}

    - name: Generate summary file (PR only)
      if: github.event_name == 'pull_request' && matrix.mode == 'preview-changes'
      run: >
        python helper.py comment-body
        ${{ matrix.baseline-analysis }} ${{ matrix.target-analysis }}
        ${{ matrix.baseline-sha }} ${{ matrix.target-sha }}
        ${{ github.event.pull_request.number }}

    - name: Upload summary file (PR only)
      if: github.event_name == 'pull_request' && matrix.mode == 'preview-changes'
      uses: actions/upload-artifact@v3
      with:
        name: .pr-comment.json
        path: .pr-comment.json

    - name: Verify zero changes (PR only)
      if: matrix.mode == 'assert-no-changes'
      run: >
        diff-shades compare --check ${{ matrix.baseline-analysis }} ${{ matrix.target-analysis }}
        || (echo "Please verify you didn't
change the stable code style unintentionally!" && exit 1)
```

```
    - name: Check for failed files for target revision
      # Even if the previous step failed, we should still check for failed files.
      if: always()
      run: >
        diff-shades show-failed --check --show-log ${{ matrix.target-analysis }}
[project]
name = "test"
version = "1.0.0"
requires-python = ">=3.7,<3.11"

[tool.black]
line-length = 79
[flake8]
max-line-length = 88
extend-ignore = E203,E701
---
name: Bug report
about: Create a report to help us improve Black's quality
title: ""
labels: "T: bug"
assignees: ""
---

<!--
Please make sure that the bug is not already fixed either in newer versions or the
current development version. To confirm this, you have three options:

1. Update Black's version if a newer release exists: `pip install -U black`
2. Use the online formatter at <https://black.vercel.app/?version=main>, which will use
  the latest main branch. Note that the online formatter currently runs on
  an older version of Python and may not support newer syntax, such as the
  extended f-string syntax added in Python 3.12.
3. Or run _Black_ on your machine:
  - create a new virtualenv (make sure it's the same Python version);
  - clone this repository;
  - run `pip install -e .[d]`;
  - run `pip install -r test_requirements.txt`
  - make sure it's sane by running `python -m pytest`; and
  - run `black` like you did last time.
-->

**Describe the bug**

<!-- A clear
 and concise description of what the bug is. -->

**To Reproduce**
```

<!--
Minimal steps to reproduce the behavior with source code and Black's configuration.
-->

For example, take this code:

```python
this = "code"
```

And run it with these arguments:

```sh
$ black file.py --target-version py39
```

The resulting error is:

> cannot format file.py: INTERNAL ERROR: ...

Expected behavior

<!-- A clear and concise description of what you expected to happen. -->

Environment

<!-- Please complete the following information: -->

- Black's version: <!-- e.g. [main] -->
- OS and Python version: <!-- e.g. [Linux/Python 3.7.4rc1] -->

Additional context

<!-- Add any other context about the problem here. -->
GitHub Actions integration

You can use _Black_ within a GitHub Actions workflow without setting your own Python environment. Great for enforcing that your code matches the _Black_ code style.

Compatibility

This action is known to support all GitHub-hosted runner OSes. In addition, only published versions of _Black_ are supported (i.e. whatever is available on PyPI).

Finally, this action installs _Black_ with the `colorama` extra so the `--color` flag should work fine.

Usage

Create a file named `.github/workflows/black.yml` inside your repository with:

```yaml
name: Lint

on: [push, pull_request]

jobs:
 lint:
   runs-on: ubuntu-latest
   steps:
     - uses: actions/checkout@v4
     - uses: psf/black@stable
```

We recommend the use of the `@stable` tag, but per version tags also exist if you prefer
that. Note that the action's version you select is independent of the version of _Black_
the action will use.

The version of _Black_ the action will use can be configured
 via `version` or read from
the `pyproject.toml` file. `version` can be any
[valid version specifier](https://packaging.python.org/en/latest/glossary/#term-Version-Specifier)
or just the version number if you want an exact version. To read the version from the
`pyproject.toml` file instead, set `use_pyproject` to `true`. This will first look into
the `tool.black.required-version` field, then the `project.dependencies` array and
finally the `project.optional-dependencies` table. The action defaults to the latest
release available on PyPI. Only versions available from PyPI are supported, so no commit
SHAs or branch names.

If you want to include Jupyter Notebooks, _Black_ must be installed with the `jupyter`
extra. Installing the extra and including Jupyter Notebook files can be configured via
`jupyter` (default is `false`).

You can also configure the arguments passed to _Black_ via `options` (defaults to
`'--check --diff'`) and `src` (default is `'.'`). Please note that the
[`--check`
 flag](labels/exit-code) is required so that the workflow fails if _Black_
finds files that need to be formatted.

Here's an example configuration:

```yaml
- uses: psf/black@stable
 with:
   options: "--check --verbose"
   src: "./src"
```

```
  jupyter: true
  version: "21.5b1"
```

If you want to match versions covered by Black's
[stability policy](labels/stability-policy), you can use the compatible release operator
(`~=`):

```yaml
- uses: psf/black@stable
 with:
  options: "--check --verbose"
  src: "./src"
  version: "~= 22.0"
```

If you want to read the version from `pyproject.toml`, set `use_pyproject` to `true`.
Note that this requires Python >= 3.11, so using the setup-python action may be
required, for example:

```yaml
- uses: actions/setup-python@v5
 with:
  python-version: "3.13"
- uses: psf/black@stable
 with:
  options: "--check --verbose"
  src: "./src"
  use_pyproject: true
```

Release process

Black has had a lot of work done into standardizing and automating its release
process. This document sets out to explain how everything works and how to release
Black using said automation.

Release cadence

We aim to release whatever is on `main` every 1-2 months. This ensures merged
improvements and bugfixes are shipped to users reasonably quickly, while not massively
fracturing the user-base with too many versions. This also keeps the workload on
maintainers consistent and predictable.

If there's not much new on `main` to justify a release, it's acceptable to skip a
month's release. Ideally January releases should not be skipped because as per our
[stability policy](labels/stability-policy), the first release in a new calendar year
may make changes to the _stable_ style. While the policy applies to the first release
(instead of only January releases), confining changes to the stable style to January

will keep things predictable (and nicer) for users.

Unless
there is a serious regression or bug that requires immediate patching, **there
should not be more than one release per month**. While version numbers are cheap,
releases require a maintainer to both commit to do the actual cutting of a release, but
also to be able to deal with the potential fallout post-release. Releasing more
frequently than monthly nets rapidly diminishing returns.

Cutting a release

You must have `write` permissions for the _Black_ repository to cut a release.

The 10,000 foot view of the release process is that you prepare a release PR and then
publish a [GitHub Release]. This triggers [release automation](#release-workflows) that builds
all release artifacts and publishes them to the various platforms we publish to.

We now have a `scripts/release.py` script to help with cutting the release PRs.

- `python3 scripts/release.py --help` is your friend.
- `release.py` has only been tested in Python 3.12 (so get with the times :D)

To cut a release:

1. Determine the release's version number
   - **_Black_ follows the [CalVer] versioning standard using the `YY.M.N` format**
     - So unless there already has been a release during this month, `N` should be `0`
   - Example: the first release in January, 2022 `22.1.0`
   - `release.py` will calculate this and log to stderr for you copy paste pleasure
1. File a PR editing `CHANGES.md` and the docs to version the latest changes
   - Run `python3 scripts/release.py [--debug]` to generate most changes
     - Sub headings in the template, if they have no bullet points need manual removal
       PR welcome to improve :D
1. If `release.py` fail manually edit; otherwise, yay, skip this step!
   1. Replace the `## Unreleased` header with the version number
   1. Remove any empty sections for the current release
   1. (_optional_) Read through and copy-edit the changelog (eg. by moving entries,
      fixing typos, or rephrasing entries)
   1. Double-check that no changelog entries since the
   last release were put in the
      wrong section (e.g., run `git diff <last release> CHANGES.md`)
   1. Update references to the latest version in
      {doc}`/integrations/source_version_control` and
      {doc}`/usage_and_configuration/the_basics`
   - Example PR: [GH-3139]
1. Once the release PR is merged, wait until all CI passes
   - If CI does not pass, **stop** and investigate the failure(s) as generally we'd want

to fix failing CI before cutting a release
1. [Draft a new GitHub Release][new-release]
  1. Click `Choose a tag` and type in the version number, then select the
    `Create new tag: YY.M.N on publish` option that appears
  1. Verify that the new tag targets the `main` branch
  1. You can leave the release title blank, GitHub will default to the tag name
  1. Copy and paste the _raw changelog Markdown_ for the current release into the
    description box
1. Publish the GitHub Release, triggering [release automation](#release-workflows) that
  will handle
 the rest
1. Once CI is done add + commit (git push - No review) a new empty template for the next
  release to CHANGES.md _(Template is able to be copy pasted from release.py should we
  fail)_
  1. `python3 scripts/release.py --add-changes-template|-a [--debug]`
  1. Should that fail, please return to copy + paste
1. At this point, you're basically done. It's good practice to go and [watch and verify
  that all the release workflows pass][black-actions], although you will receive a
  GitHub notification should something fail.
  - If something fails, don't panic. Please go read the respective workflow's logs and
    configuration file to reverse-engineer your way to a fix/solution.

Congratulations! You've successfully cut a new release of _Black_. Go and stand up and
take a break, you deserve it.

```{important}
Once the release artifacts reach PyPI, you may see new issues being filed indicating
regressions. While regressions are not great, they don't automatically mean a hotfix
release
 is warranted. Unless the regressions are serious and impact many users, a hotfix
release is probably unnecessary.

In the end, use your best judgement and ask other maintainers for their thoughts.
```

Release workflows

All of _Black_'s release automation uses [GitHub Actions]. All workflows are therefore configured
using YAML files in the `.github/workflows` directory of the _Black_ repository.

They are triggered by the publication of a [GitHub Release].

Below are descriptions of our release workflows.

Publish to PyPI

This is our main workflow. It builds an [sdist] and [wheels] to upload to PyPI where the
vast majority of users will download Black from. It's divided into three job groups:

sdist + pure wheel

This single job builds the sdist and pure Python wheel (i.e., a wheel that only contains Python code) using [build] and then uploads them to PyPI using [twine]. These artifacts are general-purpose and can be used on basically any platform supported by Python.

mypyc wheels ()

We use [mypyc] to compile _Black_ into a CPython C extension for significantly improved performance. Wheels built with mypyc are platform and Python version specific. [Supported platforms are documented in the FAQ](labels/mypyc-support).

These matrix jobs use [cibuildwheel] which handles the complicated task of building C extensions for many environments for us. Since building these wheels is slow, there are multiple mypyc wheels jobs (hence the term "matrix") that build for a specific platform (as noted in the job name in parentheses).

Like the previous job group, the built wheels are uploaded to PyPI using [twine].

Update stable branch

So this job doesn't _really_ belong here, but updating the `stable` branch after the other PyPI jobs pass (they must pass for this job to start) makes the most sense. This saves us from remembering to update the branch sometime after cutting the release.

- _Currently this workflow uses an API token associated with @ambv's PyPI account_

Publish executables

This workflow builds native executables for multiple platforms using [PyInstaller]. This allows people to download the executable for their platform and run _Black_ without a [Python runtime](https://wiki.python.org/moin/PythonImplementations) installed.

The created binaries are stored on the associated GitHub Release for download over _IPv4 only_ (GitHub still does not have IPv6 access).

docker

This workflow uses the QEMU powered `buildx` feature of Docker to upload an `arm64` and `amd64`/`x86_64` build of the official _Black_ Docker image.

- _Currently this workflow uses an API Token associated with @cooperlees account_

```{note}
This also runs on each push to `main`.
```

```

[black-actions]: https://github.com/psf/black/actions
[build]: https://pypa-build.readthedocs.io/
[calver]: https://calver.org
[cibuildwheel]: https://cibuildwheel.readthedocs.io/
[gh-3139]: https://github.com/psf/black/pull/3139
[github actions]: https://github.com/features/actions
[github
 release]: https://github.com/psf/black/releases
[new-release]: https://github.com/psf/black/releases/new
[mypyc]: https://mypyc.readthedocs.io/
[mypyc-platform-support]:
 /faq.html#what-is-compiled-yes-no-all-about-in-the-version-output
[pyinstaller]: https://www.pyinstaller.org/
[sdist]:
 https://packaging.python.org/en/latest/glossary/#term-Source-Distribution-or-sdist
[twine]: https://github.com/features/actions
[wheels]: https://packaging.python.org/en/latest/glossary/#term-Wheel
FROM python:3.8.2-slim

# note: a single RUN to avoid too many image layers being produced
RUN apt-get update \
&& apt-get upgrade -y \
&& apt-get install git apt-utils -y \
&& git config --global user.email "black@psf.github.com" \
&& git config --global user.name "Gallery/Black"

COPY gallery.py /
ENTRYPOINT ["python", "/gallery.py"]
file_input
 decorated
   decorator
     AT
'@'
     NAME
'dataclass'
     NEWLINE
'\n'
   /decorator
   classdef
     NAME
'class'
     NAME
' '
'DebugVisitor'
     LPAR
'('
```

```
    power
      NAME
'Visitor'
      trailer
        LSQB
'['
        NAME
'T'
        RSQB
']'
      /trailer
    /power
    RPAR
')'
    COLON
':'
    suite
      NEWLINE
'\n'
      INDENT
''
      simple_stmt
        expr_stmt
          NAME
'    '
'tree_depth'
          annassign
            COLON
':'
            NAME
' '
'int'
            EQUAL
' '
'='
            NUMBER
' '
'0'
          /annassign
        /expr_stmt
        NEWLINE
'\n'
      /simple_stmt
      funcdef
        NAME
'\n    '
'def'
        NAME
```

' '
'visit_default'
parameters
LPAR
'('
typedargslist
NAME
'self'
COMMA
','
tname
NAME
' '
'node'

COLON
':'
NAME
' '
'LN'
/tname
/typedargslist
RPAR
')'
/parameters
RARROW
' '
'->'
power
NAME
' '
'Iterator'
trailer
LSQB
'['
NAME
'T'
RSQB
']'
/trailer
/power
COLON
':'
suite
NEWLINE
'\n'
INDENT
''

```
        simple_stmt
          expr_stmt
            NAME
'       '
'indent'
            EQUAL
' '
'='
            term
              STRING
' '
''' '''
              STAR
' '
'*'
              atom
                LPAR
' '
'('
                term
                  NUMBER
'2'
                  STAR
' '
'*'
                  power
                    NAME
' '
'self'
                    trailer
                      DOT
'.'
                      NAME
'tree_depth'

    /trailer
                  /power
                /term
                RPAR
')'
              /atom
            /term
          /expr_stmt
          NEWLINE
'\n'
        /simple_stmt
        if_stmt
          NAME
```

' '
'if'
power
NAME
' '
'isinstance'
trailer
LPAR
'('
arglist
NAME
'node'
COMMA
','
NAME
' '
'Node'
/arglist
RPAR
')'
/trailer
/power
COLON
':'
suite
NEWLINE
'\n'
INDENT
''
simple_stmt
expr_stmt
NAME
' '
'_type'
EQUAL
' '
'='
power
NAME
' '
'type_repr'
trailer
LPAR
'('
power
NAME
'node'
trailer

DOT
'.'
NAME
'type'
/trailer
/power
RPAR
')'
/trailer
/power
/expr_stmt
NEWLINE
'\n'
/simple_stmt
simple_stmt
power
NAME
' '
'out'
trailer
LPAR
'('
arglist
fstring
FSTRING_START
"f"'
FSTRING_MIDDLE
"
fstring_replacement_field
LBRACE
'{'
NAME
'indent'
RBRACE
'}'
/fstring_replacement_field
FSTRING_MIDDLE
 "
fstring_replacement_field
LBRACE
'{'
NAME
'_type'
RBRACE
'}'
/fstring_replacement_field
FSTRING_MIDDLE
"

FSTRING_END
"""
/fstring
COMMA
','
argument
NAME
' '
'fg'
EQUAL
'='
STRING
'"yellow"'
/argument
/arglist
RPAR
')'
/trailer
/power
NEWLINE
'\n'
/simple_stmt
simple_stmt
expr_stmt
power
NAME
' '
'self'
trailer
DOT
'.'
NAME
'tree_depth'
/trailer
/power
PLUSEQUAL
' '
'+='
NUMBER
' '
'1'
/expr_stmt
NEWLINE
'\n'
/simple_stmt
for_stmt
NAME
' '

'for'
NAME
' '
'child'
NAME
' '
'in'
power
NAME
' '
'node'
trailer
DOT
'.'
NAME
'children'
/trailer
/power
COLON
':'
suite
NEWLINE
'\n'
INDENT
''
simple_stmt
yield_expr
NAME
' '
'yield'
yield_arg
NAME
' '
'from'
power
NAME
' '
'self'

trailer
DOT
'.'
NAME
'visit'
/trailer
trailer
LPAR
'('

NAME
'child'
RPAR
')'
/trailer
/power
/yield_arg
/yield_expr
NEWLINE
'\n'
/simple_stmt
DEDENT
''
/suite
/for_stmt
simple_stmt
expr_stmt
power
NAME
'\n '
'self'
trailer
DOT
'.'
NAME
'tree_depth'
/trailer
/power
MINEQUAL
' '
'-='
NUMBER
' '
'1'
/expr_stmt

NEWLINE
'\n'
/simple_stmt
simple_stmt
power
NAME
' '
'out'
trailer
LPAR
'('
arglist

```
                fstring
                  FSTRING_START
"f'''
                  FSTRING_MIDDLE
''
                  fstring_replacement_field
                    LBRACE
'{'
                    NAME
'indent'
                    RBRACE
'}'
                  /fstring_replacement_field
                  FSTRING_MIDDLE
'/'
                  fstring_replacement_field
                    LBRACE
'{'
                    NAME
'_type'
                    RBRACE
'}'
                  /fstring_replacement_field
                  FSTRING_MIDDLE
''
                  FSTRING_END
'''''
                /fstring

            COMMA
','
                argument
                  NAME
' '
'fg'
                  EQUAL
'='
                  STRING
'''yellow'''
                /argument
                COMMA
','
                argument
                  NAME
' '
'bold'
                  EQUAL
'='
```

NAME
'False'
/argument
/arglist
RPAR
')'
/trailer
/power
NEWLINE
'\n'
/simple_stmt
DEDENT
''
/suite
NAME
' '
'else'
COLON
':'
suite
NEWLINE
'\n'
INDENT
''
simple_stmt
expr_stmt
NAME
' '
'_type'
EQUAL
' '
'='
power
NAME
' '
'token'
trailer
DOT
'.'
NAME
'tok_name'
/trailer
trailer
DOT
'.'
NAME
'get'
/trailer

```
                trailer
                  LPAR
'('
                  arglist
                    power
                      NAME
'node'
                      trailer
                        DOT
'.'
                        NAME
'type'
                      /trailer
                    /power
                    COMMA
','
                    power
                      NAME
' '
'str'
                      trailer
                        LPAR
'('
                        power
                          NAME
'node'
                          trailer
                            DOT
'.'

                        NAME
'type'
                          /trailer
                        /power
                        RPAR
')'
                      /trailer
                    /power
                  /arglist
                  RPAR
')'
                /trailer
              /power
            /expr_stmt
            NEWLINE
'\n'
          /simple_stmt
          simple_stmt
```

```
            power
              NAME
'          '
'out'
              trailer
                LPAR
'('
                arglist
                  fstring
                    FSTRING_START
"f"'
                    FSTRING_MIDDLE
"
                    fstring_replacement_field
                      LBRACE
'{'
                      NAME
'indent'
                      RBRACE
'}'
                    /fstring_replacement_field

        FSTRING_MIDDLE
"
                    fstring_replacement_field
                      LBRACE
'{'
                      NAME
'_type'
                      RBRACE
'}'
                    /fstring_replacement_field
                    FSTRING_MIDDLE
"
                    FSTRING_END
"""
                  /fstring
                  COMMA
','
                  argument
                    NAME
' '
'fg'
                    EQUAL
'='
                    STRING
'"blue"'
                  /argument
```

```
                    COMMA
','
                    argument
                      NAME
' '
'nl'
                      EQUAL
'='
                      NAME
'False'
                    /argument
                  /arglist
                  RPAR
')'
                /trailer
              /power
              NEWLINE
'\n'
            /simple_stmt
            if_stmt
              NAME
'          '
'if'
              power
                NAME
' '
'node'
                trailer
                  DOT
'.'
                  NAME
'prefix'
                /trailer
              /power
              COLON
':'
              suite
                NEWLINE
'\n'
                INDENT
''
                simple_stmt
                  power
                    NAME
''              # We don't have to handle prefixes for `Node` objects since\n              # that delegates to the first child
anyway.\n              ''
'out'
                    trailer
```

```
                    LPAR
'('
                    arglist
                      fstring
                        FSTRING_START
"f'"
                        FSTRING_MIDDLE
' '
                        fstring_replacement_field
                          LBRACE
'{'

                  power
                          NAME
'node'
                          trailer
                            DOT
'.'
                            NAME
'prefix'
                          /trailer
                        /power
                        BANG
'!'
                        NAME
'r'
                        RBRACE
'}'
                        /fstring_replacement_field
                        FSTRING_MIDDLE
''
                        FSTRING_END
'''''
                      /fstring
                      COMMA
','
                      argument
                        NAME
' '
'fg'
                        EQUAL
'='
                        STRING
'''green'''
                      /argument
                      COMMA
','
                      argument
```

NAME
' '
'bold'

EQUAL
'='
NAME
'False'
/argument
COMMA
','
argument
NAME
' '
'nl'
EQUAL
'='
NAME
'False'
/argument
/arglist
RPAR
')'
/trailer
/power
NEWLINE
'\n'
/simple_stmt
DEDENT
''
/suite
/if_stmt
simple_stmt
power
NAME
' '
'out'
trailer
LPAR
'('
arglist
fstring
FSTRING_START
''f'''
FSTRING_MIDDLE
' '
fstring_replacement_field

LBRACE
'{'
power
NAME
'node'
trailer
DOT
'.'
NAME
'value'
/trailer
/power
BANG
'!'
NAME
'r'
RBRACE
'}'
/fstring_replacement_field
FSTRING_MIDDLE
''
FSTRING_END
'''''
/fstring
COMMA
','
argument
NAME
' '
'fg'
EQUAL
'='
STRING
'''blue'''
/argument
COMMA
','
argument
NAME
' '
'bold'
EQUAL
'='

NAME
'False'
/argument
/arglist

RPAR
')'
/trailer
/power
NEWLINE
'\n'
/simple_stmt
DEDENT
''
/suite
/if_stmt
DEDENT
''
/suite
/funcdef
decorated
decorator
AT
'\n '
'@'
NAME
'classmethod'
NEWLINE
'\n'
/decorator
funcdef
NAME
' '
'def'
NAME
' '
'show'
parameters
LPAR
'('
typedargslist
NAME
'cls'
COMMA
','
tname
NAME
' '
'code'
COLON
':'
NAME
' '

```
'str'
            /tname
          /typedargslist
          RPAR
')'
        /parameters
        RARROW
' '
'->'
        NAME
' '
'None'
         COLON
':'
        suite
          NEWLINE
'\n'
          INDENT
''
          simple_stmt
            STRING
'       '
"""Pretty-prints a given string of `code`.\n\n        Convenience method for debugging.\n        """
            NEWLINE
'\n'
          /simple_stmt
          simple_stmt
            expr_stmt
              NAME
'       '
'v'
              annassign
                COLON
':'
                power
                  NAME
' '
'DebugVisitor'
                  trailer
                    LSQB
'['
                    NAME
'None'
                    RSQB
']'
                  /trailer
                /power
                EQUAL
```

' '
'='
power
NAME
' '
'DebugVisitor'
trailer
LPAR
'('
RPAR
')'
/trailer
/power
/annassign
/expr_stmt
NEWLINE
'\n'
/simple_stmt
simple_stmt
power
NAME
' '
'list'
trailer
LPAR
'('
power
NAME
'v'
trailer
DOT
'.'
NAME
'visit'
/trailer
trailer
LPAR
'('
power
NAME
'lib2to3_parse'
trailer
LPAR
'('
NAME
'code'
RPAR
')'

/trailer
/power
RPAR
')'
/trailer
/power
RPAR
')'
/trailer
/power
NEWLINE
'\n'
/simple_stmt
DEDENT
"
/suite
/funcdef
/decorated
DEDENT
"
/suite
/classdef
/decorated
ENDMARKER
"
/file_input
{"metadata":{"kernelspec":{"name":"ir","display_name":"R","language":"R"},"language_info":{"name":"R","codemirror_mode":"r","pygments_lexer":"r","mimetype":"text/x-r-source","file_extension":".r","version":"4.0.5"}},"nbformat_minor":4,"nbformat":4,"cells":[{"cell_type":"code","source":"library(tidyverse)
","metadata":{"_uuid":"051d70d956493feee0c6d64651c6a088724dca2a","_execution_state":"idle"},"execution_count":null,"outputs":[]}]}
Gallery

Gallery is a script that automates the process of applying different _Black_ versions to
a selected PyPI package and seeing the results between _Black_ versions.

Build

```console
$ docker build -t black_gallery .
```

Run

```console
$ docker run -it -v /host/output:/output -v /host/input:/input black_gallery:latest [args]
```

```
usage: gallery.py [-h] (-p PYPI_PACKAGE | -t TOP_PACKAGES) [-b BLACK_REPO] [-v VERSION] [-w
WORKERS] [-i INPUT] [-o OUTPUT]
               [versions [versions ...]]

Black Gallery is a script that automates the process of applying different Black versions to a selected PyPI package
and
seeing the results between versions.

positional arguments:
 versions

optional arguments:
 -h, --help            show this help message and exit
 -p PYPI_PACKAGE, --pypi-package PYPI_PACKAGE
                    PyPI package to download.
 -t TOP_PACKAGES, --top-packages TOP_PACKAGES
                    Top n PyPI packages to download.
 -b BLACK_REPO,
 --black-repo BLACK_REPO
                    Black's Git repository.
 -v VERSION, --version VERSION
                    Version for given PyPI package. Will be discarded if used with -t option.
 -w WORKERS, --workers WORKERS
                    Maximum number of threads to download with at the same time. Will be discarded if used with -p
                    option.
 -i INPUT, --input INPUT
                    Input directory to read configuration.
 -o OUTPUT, --output OUTPUT
                    Output directory to download and put result artifacts.
```
---
name: Feature request
about: Suggest an idea for this project
title: ""
labels: "T: enhancement"
assignees: ""

Is your feature request related to a problem? Please describe.

<!-- A clear and concise description of what the problem is.
e.g. I'm always frustrated when [...] -->

Describe the solution you'd like

<!-- A clear and concise description of what you want to

happen. -->

Describe alternatives you've considered

<!-- A clear and concise description of any
alternative solutions or features you've considered. -->

Additional context

<!-- Add any other context or screenshots about the feature request
here. -->
Issue triage

Currently, _Black_ uses the issue tracker for bugs, feature requests, proposed style modifications, and general user support. Each of these issues have to be triaged so they can be eventually be resolved somehow. This document outlines the triaging process and also the current guidelines and recommendations.

```{tip}
If you're looking for a way to contribute without submitting patches, this might be
the area for you. Since _Black_ is a popular project, its issue tracker is quite busy
and always needs more attention than is available. While triage isn't the most
glamorous or technically challenging form of contribution, it's still important.
For example, we would love to know whether that old bug report is still reproducible!

You can get easily started by reading over this document and then responding to issues.

If you contribute enough and have stayed for a long enough time, you may even be
given Triage permissions!
```

The basics

Black gets a whole bunch of different
issues, they range from bug reports to user
support issues. To triage is to identify, organize, and kickstart the issue's journey through its lifecycle to resolution.

More specifically, to triage an issue means to:

- identify what type and categories the issue falls under
- confirm bugs
- ask questions / for further information if necessary
- link related issues
- provide the first initial feedback / support

Note that triage is typically the first response to an issue, so don't fret if the issue doesn't make much progress after initial triage. The main goal of triaging to prepare

the issue for future more specific development or discussion, so _eventually_ it will be resolved.

The lifecycle of a bug report or user support issue typically goes something like this:

1. _the issue is waiting for triage_
2. **identified** - has been marked with a type label and other relevant labels, more details or a functional reproduction may be still needed (and therefore should be marked
with `S: needs repro` or `S: awaiting response`)
3. **confirmed** - the issue can reproduced and necessary details have been provided
4. **discussion** - initial triage has been done and now the general details on how the issue should be best resolved are being hashed out
5. **awaiting fix** - no further discussion on the issue is necessary and a resolving PR is the next step
6. **closed** - the issue has been resolved, reasons include:
   - the issue couldn't be reproduced
   - the issue has been fixed
   - duplicate of another pre-existing issue or is invalid

For enhancement, documentation, and style issues, the lifecycle looks very similar but the details are different:

1. _the issue is waiting for triage_
2. **identified** - has been marked with a type label and other relevant labels
3. **discussion** - the merits of the suggested changes are currently being discussed, a PR would be acceptable but would be at significant risk of being rejected
4. **accepted & awaiting
PR** - it's been determined the suggested changes are OK and a PR would be welcomed (`S: accepted`)
5. **closed**: - the issue has been resolved, reasons include:
   - the suggested changes were implemented
   - it was rejected (due to technical concerns, ethos conflicts, etc.)
   - duplicate of a pre-existing issue or is invalid

Note: documentation issues don't use the `S: accepted` label currently since they're less likely to be rejected.

Labelling

We use labels to organize, track progress, and help effectively divvy up work.

Our labels are divided up into several groups identified by their prefix:

- **T - Type**: the general flavor of issue / PR
- **C - Category**: areas of concerns, ranges from bug types to project maintenance
- **F - Formatting Area**: like C but for formatting specifically
- **S - Status**: what stage of resolution is this issue currently in?

- **R - Resolution**: how / why was the issue / PR resolved?

We also have a few standalone labels:

- **`good
 first issue`**: issues that are beginner-friendly (and will show up in GitHub
 banners for first-time visitors to the repository)
- **`help wanted`**: complex issues that need and are looking for a fair bit of work as
 to progress (will also show up in various GitHub pages)
- **`skip news`**: for PRs that are trivial and don't need a CHANGELOG entry (and skips
 the CHANGELOG entry check)

```{note}
We do use labels for PRs, in particular the `skip news` label, but we aren't that
rigorous about it. Just follow your judgement on what labels make sense for the
specific PR (if any even make sense).
```

Projects

For more general and broad goals we use projects to track work. Some may be longterm
projects with no true end (e.g. the "Amazing documentation" project) while others may be
more focused and have a definite end (like the "Getting to beta" project).

```{note}
To modify GitHub Projects you need the [Write repository permission level or
higher](https://docs.github.com/en/organizations/managing-access-to-your-organizations-repositories/repository-permission-levels-for-an-organization#repository-access-for-each-permission-level).
```

Closing issues

Closing an issue signifies the issue has reached the end of its life, so closing issues
should be taken with care. The following is the general recommendation for each type of
issue. Note that these are only guidelines and if your judgement says something else
it's totally cool to go with it instead.

For most issues, closing the issue manually or automatically after a resolving PR is
ideal. For bug reports specifically, if the bug has already been fixed, try to check in
with the issue opener that their specific case has been resolved before closing. Note
that we close issues as soon as they're fixed in the `main` branch. This doesn't
necessarily mean they've been released yet.

Design and enhancement issues should be also closed when it's clear the proposed change
won't be implemented, whether that has
 been determined after a lot of discussion or just
simply goes against _Black_'s ethos. If such an issue turns heated, closing and locking

is acceptable if it's severe enough (although checking in with the core team is probably
a good idea).

User support issues are best closed by the author or when it's clear the issue has been
resolved in some sort of manner.

Duplicates and invalid issues should always be closed since they serve no purpose and
add noise to an already busy issue tracker. Although be careful to make sure it's truly
a duplicate and not just very similar before labelling and closing an issue as
duplicate.

Common reports

Some issues are frequently opened, like issues about _Black_ formatted code causing E203
messages. Even though these issues are probably heavily duplicated, they still require
triage sucking up valuable time from other things (although they usually skip most of
their lifecycle since they're closed on triage).

Here's some of the most common issues and
 also pre-made responses you can use:

"The trailing comma isn't being removed by Black!"

```text
Black used to remove the trailing comma if the expression fits in a single line, but this was changed by #826 and
#1288. Now a trailing comma tells Black to always explode the expression. This change was made mostly for the
cases where you _know_ a collection or whatever will grow in the future. Having it always exploded as one element
per line reduces diff noise when adding elements. Before the "magic trailing comma" feature, you couldn't anticipate
a collection's growth reliably since collections that fitted in one line were ruthlessly collapsed regardless of your
intentions. One of Black's goals is reducing diff noise, so this was a good pragmatic change.

So no, this is not a bug, but an intended feature. Anyway, [here's the
documentation](https://github.com/psf/black/blob/master/docs/the_black_code_style.md#the-magic-trailing-comma)
on the "magic trailing comma", including the
 ability to skip this functionality with the `--skip-magic-trailing-comma` option. Hopefully that helps solve the
possible confusion.
```

"Black formatted code is violating Flake8's E203!"

```text
Hi,

This is expected behaviour, please see the documentation regarding this case (emphasis
mine):

> PEP 8 recommends to treat : in slices as a binary operator with the lowest priority, and to leave an equal amount of
space on either side, **except if a parameter is omitted (e.g. ham[1 + 1 :])**. It recommends no spaces around :
```

operators for simple expressions (ham[lower:upper]), and **extra space for complex expressions (ham[lower : upper + offset])**. **Black treats anything more than variable names as complex (ham[lower : upper + 1]).** It also states that for extended slices, both : operators have to have the same amount of spacing, except if a parameter is omitted (ham[1 + 1 ::]). Black enforces these rules consistently.

> This behaviour may raise E203 whitespace before ':' warnings
 in style guide enforcement tools like Flake8. **Since E203 is not PEP 8 compliant, you should tell Flake8 to ignore these warnings**.

https://black.readthedocs.io/en/stable/the_black_code_style/current_style.html#slices

Have a good day!
```
# Empty pyproject.toml to use with some tests that depend on Python 3.6 autodiscovery
# and so on.
name: docker

on:
 push:
   branches:
     - "main"
 release:
   types: [published]

permissions:
 contents: read

jobs:
 docker:
   if: github.repository == 'psf/black'
   runs-on: ubuntu-latest
   steps:
     - name: Checkout
       uses: actions/checkout@v4

     - name: Set up QEMU
       uses: docker/setup-qemu-action@v3

     - name: Set up Docker Buildx
       uses: docker/setup-buildx-action@v3

     - name: Login to DockerHub
       uses: docker/login-action@v3
       with:
         username: ${{ secrets.DOCKERHUB_USERNAME }}
         password: ${{ secrets.DOCKERHUB_TOKEN }}

     - name: Check + set version tag
```

```
      run:
        echo "GIT_TAG=$(git describe --candidates=0 --tags 2> /dev/null || echo
        latest_non_release)" >> $GITHUB_ENV

    - name: Build and push
      uses: docker/build-push-action@v6
      with:
        context: .
        platforms: linux/amd64,linux/arm64
        push: true
        tags: pyfound/black:latest,pyfound/black:${{
env.GIT_TAG }}

    - name: Build and push latest_release tag
      if:
        ${{ github.event_name == 'release' && github.event.action == 'published' &&
        !github.event.release.prerelease }}
      uses: docker/build-push-action@v6
      with:
        context: .
        platforms: linux/amd64,linux/arm64
        push: true
        tags: pyfound/black:latest_release

    - name: Build and push latest_prerelease tag
      if:
        ${{ github.event_name == 'release' && github.event.action == 'published' &&
        github.event.release.prerelease }}
      uses: docker/build-push-action@v6
      with:
        context: .
        platforms: linux/amd64,linux/arm64
        push: true
        tags: pyfound/black:latest_prerelease

    - name: Image digest
      run: echo ${{ steps.docker_build.outputs.digest }}
```

Treat each other well

Everyone participating in the _Black_ project, and in particular in the issue tracker, pull requests, and social media activity, is expected to treat other people with respect and more generally to follow the guidelines articulated in the [Python Community Code of Conduct](https://www.python.org/psf/codeofconduct/).

At the same time, humor is encouraged. In fact, basic familiarity with Monty Python's Flying Circus is expected. We are not savages.

And if you _really_ need to slap somebody, do it with a fish while dancing.

Using _Black_ with other tools

Black compatible configurations

All of Black's changes are harmless (or at least, they should be), but a few do conflict against other tools. It is not uncommon to be using other tools alongside _Black_ like linters and type checkers. Some of them need a bit of tweaking to resolve the conflicts. Listed below are _Black_ compatible configurations in various formats for the common tools out there.

Please note that _Black_ only supports the TOML file format for its configuration (e.g. `pyproject.toml`). The provided examples are to only configure their corresponding tools, using **their** supported file formats.

Compatible configuration files can be [found here](https://github.com/psf/black/blob/main/docs/compatible_configs/).

isort

[isort](https://pypi.org/p/isort/) helps to sort and format imports in your Python code. _Black_ also formats imports, but in a different way from isort's defaults which leads to conflicting changes.

Profile

Since version 5.0.0, isort supports [profiles](https://pycqa.github.io/isort/docs/configuration/profiles.html) to allow easy interoperability with common code styles. You can set the black profile in any of the [config files](https://pycqa.github.io/isort/docs/configuration/config_files.html) supported by isort. Below, an example for `pyproject.toml`:

```toml
[tool.isort]
profile = "black"
```

Custom Configuration

If you're using an isort version that is older than 5.0.0 or you have some custom configuration for _Black_, you can tweak your isort configuration to make it compatible with _Black_. Below, an example for `.isort.cfg`:

```
multi_line_output = 3
include_trailing_comma = True
force_grid_wrap = 0
use_parentheses = True
```

ensure_newline_before_comments = True
line_length = 88
```

#### Why those options above?

_Black_ wraps imports that surpass `line-length` by moving identifiers onto separate
lines and by adding a trailing comma after each. A more detailed explanation
 of this
behaviour can be
[found here](../the_black_code_style/current_style.md#how-black-wraps-lines).

isort's default mode of wrapping imports that extend past the `line_length` limit is
"Grid".

```py3
from third_party import (lib1, lib2, lib3,
                         lib4, lib5, ...)
```

This style is incompatible with _Black_, but isort can be configured to use a different
wrapping mode called "Vertical Hanging Indent" which looks like this:

```py3
from third_party import (
   lib1,
   lib2,
   lib3,
   lib4,
)
```

This style is _Black_ compatible and can be achieved by `multi-line-output = 3`. Also,
as mentioned above, when wrapping long imports _Black_ puts a trailing comma and uses
parentheses. isort should follow the same behaviour and passing the options
`include_trailing_comma = True` and `use_parentheses = True` configures that.

The option `force_grid_wrap = 0` is just to tell isort to only wrap imports that surpass
the `line_length` limit.

Finally, isort should
 be told to wrap imports when they surpass _Black_'s default limit
of 88 characters via `line_length = 88` as well as
`ensure_newline_before_comments = True` to ensure spacing import sections with comments
works the same as with _Black_.

Please note `ensure_newline_before_comments = True` only works since isort >= 5 but
does not break older versions so you can keep it if you are running previous versions.
```

Formats

<details>
<summary>.isort.cfg</summary>

```ini
[settings]
profile = black
```

</details>

<details>
<summary>setup.cfg</summary>

```ini
[isort]
profile = black
```

</details>

<details>
<summary>pyproject.toml</summary>

```toml
[tool.isort]
profile = 'black'
```

</details>

<details>
<summary>.editorconfig</summary>

```ini
[*.py]
profile = black
```

</details>

pycodestyle

[pycodestyle](https://pycodestyle.pycqa.org/) is a code linter. It warns you of syntax errors, possible bugs, stylistic errors, etc. For the most part, pycodestyle follows [PEP 8](https://www.python.org/dev/peps/pep-0008/)

when warning about stylistic errors.
There are a few deviations that cause incompatibilities with _Black_.

Configuration

```
max-line-length = 88
ignore = E203,E701
```

(labels/why-pycodestyle-warnings)=

Why those options above?

`max-line-length`

As with isort, pycodestyle should be configured to allow lines up to the length limit of `88`, _Black_'s default.

`E203`

In some cases, as determined by PEP 8, _Black_ will enforce an equal amount of whitespace around slice operators. Due to this, pycodestyle will raise `E203 whitespace before ':'` warnings. Since this warning is not PEP 8 compliant, it should be disabled.

`E701` / `E704`

Black will collapse implementations of classes and functions consisting solely of `..` to a single line. This matches how such examples are formatted in PEP 8. It remains true that in all other cases Black will prevent multiple statements on the same line, in accordance with PEP
8 generally discouraging this.

However, `pycodestyle` does not mirror this logic and may raise `E701 multiple statements on one line (colon)` in this situation. Its disabled-by-default `E704 multiple statements on one line (def)` rule may also raise warnings and should not be enabled.

`W503`

When breaking a line, _Black_ will break it before a binary operator. This is compliant with PEP 8 as of
[April 2016](https://github.com/python/peps/commit/c59c4376ad233a62ca4b3a6060c81368bd21e85b#diff-64ec08cc46db7540f18f2af46037f599).
There's a disabled-by-default warning in Flake8 which goes against this PEP 8 recommendation called `W503 line break before binary operator`. It should not be enabled in your configuration. You can use its counterpart

`W504 line break after binary operator` instead.

Formats

<details>
<summary>setup.cfg, .pycodestyle, tox.ini</summary>

```ini
[pycodestyle]
max-line-length = 88
ignore = E203,E701
```

</details>

Flake8

[Flake8](https://pypi.org/p/flake8/)
 is a wrapper around multiple linters, including
pycodestyle. As such, it has many of the same issues.

Bugbear

It's recommended to use [the Bugbear plugin](https://github.com/PyCQA/flake8-bugbear)
and enable
[its B950 check](https://github.com/PyCQA/flake8-bugbear#opinionated-warnings#:~:text=you%20expect%20it.-,B950,-%3A%20Line%20too%20long)
instead of using Flake8's E501, because it aligns with
[Black's 10% rule](labels/line-length).

Install Bugbear and use the following config:

```
[flake8]
max-line-length = 80
extend-select = B950
extend-ignore = E203,E501,E701
```

Minimal Configuration

In cases where you can't or don't want to install Bugbear, you can use this minimally
compatible config:

```
[flake8]
max-line-length = 88
extend-ignore = E203,E701
```

```

#### Why those options above?

See [the pycodestyle section](labels/why-pycodestyle-warnings) above.

#### Formats

<details>
<summary>.flake8, setup.cfg, tox.ini</summary>

```ini
[flake8]
max-line-length
 = 88
extend-ignore = E203,E701
```

</details>

Pylint

[Pylint](https://pypi.org/p/pylint/) is also a code linter like Flake8. It has many of
the same checks as Flake8 and more. It particularly has more formatting checks regarding
style conventions like variable naming.

Configuration

```
max-line-length = 88
```

Why those options above?

Pylint should be configured to only complain about lines that surpass `88` characters
via `max-line-length = 88`.

If using `pylint<2.6.0`, also disable `C0326` and `C0330` as these are incompatible with
Black formatting and have since been removed.

Formats

<details>
<summary>pylintrc</summary>

```ini
[format]
max-line-length = 88
```
```

```

</details>

<details>
<summary>setup.cfg</summary>

```cfg
[pylint]
max-line-length = 88
```

</details>

<details>
<summary>pyproject.toml</summary>

```toml
[tool.pylint.format]
max-line-length = "88"
```

</details>
The basics

Foundational knowledge on using and configuring Black.

Black is a well-behaved Unix-style command-line tool:

- it does nothing if it finds no sources to format;
- it will read from standard input and write to standard output if `-` is used as the
 filename;
- it only outputs messages to users on standard error;
- exits with code 0 unless an internal error occurred or a CLI option prompted it.

Usage

Black will reformat entire files in place. To get started right away with sensible
defaults:

```sh
black {source_file_or_directory}
```

You can run _Black_ as a package if running it as a script doesn't work:

```sh
python -m black {source_file_or_directory}
```
```

```

### Ignoring sections

Black will not reformat lines that contain `# fmt: skip` or blocks that start with
`# fmt: off` and end with `# fmt: on`. `# fmt: skip` can be mixed with other
pragmas/comments either with multiple comments (e.g. `# fmt: skip # pylint # noqa`) or
as a semicolon separated list (e.g. `#
 fmt: skip; pylint; noqa`). `# fmt: on/off` must
be on the same level of indentation and in the same block, meaning no unindents beyond
the initial indentation level between them. Black also recognizes
[YAPF](https://github.com/google/yapf)'s block comments to the same effect, as a
courtesy for straddling code.

### Command line options

The CLI options of _Black_ can be displayed by running `black --help`. All options are
also covered in more detail below.

While _Black_ has quite a few knobs these days, it is still opinionated so style options
are deliberately limited and rarely added.

Note that all command-line options listed above can also be configured using a
`pyproject.toml` file (more on that below).

#### `-h`, `--help`

Show available command-line options and exit.

#### `-c`, `--code`

Format the code passed in as a string.

```console
$ black --code "print ( 'hello, world' )"
print("hello, world")
```

`-l`, `--line-length`

How many characters per line to allow. The
 default is 88.

See also [the style documentation](labels/line-length).

`-t`, `--target-version`

Python versions that should be supported by Black's output. You can run `black --help`
```

and look for the `--target-version` option to see the full list of supported versions.
You should include all versions that your code supports. If you support Python 3.11
through 3.13, you should write:

```console
$ black -t py311 -t py312 -t py313
```

In a [configuration file](#configuration-via-a-file), you can write:

```toml
target-version = ["py311", "py312", "py313"]
```

By default, Black will infer target versions from the project metadata in
`pyproject.toml`, specifically the `[project.requires-python]` field. If this does not
yield conclusive results, Black will use per-file auto-detection.

Black uses this option to decide what grammar to use to parse your code. In addition,
it may use it to decide what style to use. For example, support for a trailing comma
after `*args` in a function
 call was added in Python 3.5, so _Black_ will add this comma
only if the target versions are all Python 3.5 or higher:

```console
$ black --line-length=10 --target-version=py35 -c 'f(a, *args)'
f(
   a,
   *args,
)
$ black --line-length=10 --target-version=py34 -c 'f(a, *args)'
f(
   a,
   *args
)
$ black --line-length=10 --target-version=py34 --target-version=py35 -c 'f(a, *args)'
f(
   a,
   *args
)
```

`--pyi`

Format all input files like typing stubs regardless of file extension. This is useful
when piping source on standard input.

`--ipynb`

Format all input files like Jupyter Notebooks regardless of file extension. This is
useful when piping source on standard input.

`--python-cell-magics`

When processing Jupyter Notebooks, add the given magic to the list of known python-
magics. Useful for formatting cells with custom python magics.

`-x, --skip-source-first-line`

Skip the first line of the source code.

`-S, --skip-string-normalization`

By
default, _Black_ uses double quotes for all strings and normalizes string prefixes,
as described in [the style documentation](labels/strings). If this option is given,
strings are left unchanged instead.

`-C, --skip-magic-trailing-comma`

By default, _Black_ uses existing trailing commas as an indication that short lines
should be left separate, as described in
[the style documentation](labels/magic-trailing-comma). If this option is given, the
magic trailing comma is ignored.

`--preview`

Enable potentially disruptive style changes that we expect to add to Black's main
functionality in the next major release. Use this if you want a taste of what next
year's style will look like.

Read more about [our preview style](labels/preview-style).

There is no guarantee on the code style produced by this flag across releases.

`--unstable`

Enable all style changes in `--preview`, plus additional changes that we would like to
make eventually, but that have known issues that
need to be fixed before they can move
back to the `--preview` style. Use this if you want to experiment with these changes and
help fix issues with them.

There is no guarantee on the code style produced by this flag across releases.

`--enable-unstable-feature`

Enable specific features from the `--unstable` style. See
[the preview style documentation](labels/unstable-features) for the list of supported
features. This flag can only be used when `--preview` is enabled. Users are encouraged
to use this flag if they use `--preview` style and a feature that affects their code is
moved from the `--preview` to the `--unstable` style, but they want to avoid the thrash
from undoing this change.

There are no guarantees on the behavior of these features, or even their existence,
across releases.

(labels/exit-code)=

`--check`

Don't write the files back, just return the status. _Black_ will exit with:

- code 0 if nothing would change;
- code 1 if some files would be reformatted; or
-
 code 123 if there was an internal error

If used in combination with `--quiet` then only the exit code will be returned, unless
there was an internal error.

```console
$ black test.py --check
All done!
1 file would be left unchanged.
$ echo $?
0

$ black test.py --check
would reformat test.py
Oh no!
1 file would be reformatted.
$ echo $?
1

$ black test.py --check
error: cannot format test.py: INTERNAL ERROR: Black produced code that is not equivalent to the source.  Please
report a bug on https://github.com/psf/black/issues.  This diff might be helpful: /tmp/blk_kjdr1oog.log
Oh no!
1 file would fail to reformat.
$ echo $?
123
```

`--diff`

Don't write the files back, just output a diff to indicate what changes _Black_ would've made. They are printed to stdout so capturing them is simple.

If you'd like colored diffs, you can enable them with `--color`.

```console
$ black test.py --diff
--- test.py     2021-03-08 22:23:40.848954+00:00
+++ test.py     2021-03-08 22:23:47.126319+00:00
@@
 -1 +1 @@
-print ( 'hello, world' )
+print("hello, world")
would reformat test.py
All done!
1 file would be reformatted.
```

`--color` / `--no-color`

Show (or do not show) colored diff. Only applies when `--diff` is given.

`--line-ranges`

When specified, _Black_ will try its best to only format these lines.

This option can be specified multiple times, and a union of the lines will be formatted. Each range must be specified as two integers connected by a `-`: `<START>-<END>`. The `<START>` and `<END>` integer indices are 1-based and inclusive on both ends.

Black may still format lines outside of the ranges for multi-line statements. Formatting more than one file or any ipynb files with this option is not supported. This option cannot be specified in the `pyproject.toml` config.

Example: `black --line-ranges=1-10 --line-ranges=21-30 test.py` will format lines from `1` to `10` and `21` to `30`.

This option is mainly for editor integrations, such
 as "Format Selection".

```{note}
Due to [#4052](https://github.com/psf/black/issues/4052), `--line-ranges` might format extra lines outside of the ranges when ther are unformatted lines with the exact content. It also disables _Black_'s formatting stability check in `--safe` mode.
```

`--fast` / `--safe`

By default, _Black_ performs [an AST safety check](labels/ast-changes) after formatting your code. The `--fast` flag turns off this check and the `--safe` flag explicitly enables it.

`--required-version`

Require a specific version of _Black_ to be running. This is useful for ensuring that all contributors to your project are using the same version, because different versions of _Black_ may format code a little differently. This option can be set in a configuration file for consistent results across environments.

```console
$ black --version
black, 25.1.0 (compiled: yes)
$ black --required-version 25.1.0 -c "format = 'this'"
format = "this"
$ black --required-version 31.5b2
 -c "still = 'beta?!'"
Oh no!    The required version does not match the running version!
```

You can also pass just the major version:

```console
$ black --required-version 22 -c "format = 'this'"
format = "this"
$ black --required-version 31 -c "still = 'beta?!'"
Oh no!    The required version does not match the running version!
```

Because of our [stability policy](../the_black_code_style/index.md), this will guarantee stable formatting, but still allow you to take advantage of improvements that do not affect formatting.

`--exclude`

A regular expression that matches files and directories that should be excluded on recursive searches. An empty value means no paths are excluded. Use forward slashes for directories on all platforms (Windows, too). By default, Black also ignores all paths listed in `.gitignore`. Changing this value will override all default exclusions.

If the regular expression contains newlines, it is treated as a [verbose regular expression](https://docs.python.org/3/library/re.html#re.VERBOSE). This is typically useful when setting these options in a `pyproject.toml` configuration file; see [Configuration format](#configuration-format) for more information.

`--extend-exclude`

Like `--exclude`, but adds additional files and directories on top of the default values
instead of overriding them.

`--force-exclude`

Like `--exclude`, but files and directories matching this regex will be excluded even
when they are passed explicitly as arguments. This is useful when invoking Black
programmatically on changed files, such as in a pre-commit hook or editor plugin.

`--stdin-filename`

The name of the file when passing it through stdin. Useful to make sure Black will
respect the `--force-exclude` option on some editors that rely on using stdin.

`--include`

A regular expression that matches files and directories that should be included on
recursive searches. An empty value means all files are included regardless of the name.
Use
 forward slashes for directories on all platforms (Windows, too). Overrides all
exclusions, including from `.gitignore` and command line options.

`-W`, `--workers`

When _Black_ formats multiple files, it may use a process pool to speed up formatting.
This option controls the number of parallel workers. This can also be specified via the
`BLACK_NUM_WORKERS` environment variable. Defaults to the number of CPUs in the system.

`-q`, `--quiet`

Stop emitting all non-critical output. Error messages will still be emitted (which can
silenced by `2>/dev/null`).

```console
$ black src/ -q
error: cannot format src/black_primer/cli.py: Cannot parse: 5:6: mport asyncio
```

`-v`, `--verbose`

Emit messages about files that were not changed or were ignored due to exclusion
patterns. If _Black_ is using a configuration file, a message detailing which one it is
using will be emitted.

```console
```

```
$ black src/ -v
Using configuration from /tmp/pyproject.toml.
src/blib2to3 ignored:
 matches the --extend-exclude regular expression
src/_black_version.py wasn't modified on disk since last run.
src/black/__main__.py wasn't modified on disk since last run.
error: cannot format src/black_primer/cli.py: Cannot parse: 5:6: mport asyncio
reformatted src/black_primer/lib.py
reformatted src/blackd/__init__.py
reformatted src/black/__init__.py
Oh no!
3 files reformatted, 2 files left unchanged, 1 file failed to reformat
```

`--version`

You can check the version of _Black_ you have installed using the `--version` flag.

```console
$ black --version
black, 25.1.0
```

`--config`

Read configuration options from a configuration file. See
[below](#configuration-via-a-file) for more details on the configuration file.

Environment variable options

Black supports the following configuration via environment variables.

`BLACK_CACHE_DIR`

The directory where _Black_ should store its cache.

`BLACK_NUM_WORKERS`

The number of parallel workers _Black_
 should use. The command line option `-W` /
`--workers` takes precedence over this environment variable.

Code input alternatives

Black supports formatting code via stdin, with the result being printed to stdout.
Just let _Black_ know with `-` as the path.

```console
```

```console
$ echo "print ( 'hello, world' )" | black -
print("hello, world")
reformatted -
All done!
1 file reformatted.
```

Tip: if you need _Black_ to treat stdin input as a file passed directly via the CLI, use `--stdin-filename`. Useful to make sure _Black_ will respect the `--force-exclude` option on some editors that rely on using stdin.

You can also pass code as a string using the `--code` option.

Writeback and reporting

By default _Black_ reformats the files given and/or found in place. Sometimes you need _Black_ to just tell you what it _would_ do without actually rewriting the Python files.

There's two variations to this mode that are independently enabled by their respective flags:

- `--check` (exit
 with code 1 if any file would be reformatted)
- `--diff` (print a diff instead of reformatting files)

Both variations can be enabled at once.

Output verbosity

Black in general tries to produce the right amount of output, balancing between usefulness and conciseness. By default, _Black_ emits files modified and error messages, plus a short summary.

```console
$ black src/
error: cannot format src/black_primer/cli.py: Cannot parse: 5:6: mport asyncio
reformatted src/black_primer/lib.py
reformatted src/blackd/__init__.py
reformatted src/black/__init__.py
Oh no!
3 files reformatted, 2 files left unchanged, 1 file failed to reformat.
```

The `--quiet` and `--verbose` flags control output verbosity.

Configuration via a file

Black is able to read project-specific default values for its command line options

from a `pyproject.toml` file. This is especially useful for specifying custom `--include` and `--exclude`/`--force-exclude`/`--extend-exclude` patterns for your project.

Pro-tip:
 If you're asking yourself "Do I need to configure anything?" the answer is "No". _Black_ is all about sensible defaults. Applying those defaults will have your code in compliance with many other _Black_ formatted projects.

What on Earth is a `pyproject.toml` file?

[PEP 518](https://www.python.org/dev/peps/pep-0518/) defines `pyproject.toml` as a configuration file to store build system requirements for Python projects. With the help of tools like [Poetry](https://python-poetry.org/), [Flit](https://flit.readthedocs.io/en/latest/), or [Hatch](https://hatch.pypa.io/latest/) it can fully replace the need for `setup.py` and `setup.cfg` files.

Where _Black_ looks for the file

By default _Black_ looks for `pyproject.toml` containing a `[tool.black]` section starting from the common base directory of all files and directories passed on the command line. If it's not there, it looks in parent directories. It stops looking when it finds the file, or a `.git` directory,
 or a `.hg` directory, or the root of the file
system, whichever comes first.

If you're formatting standard input, _Black_ will look for configuration starting from the current working directory.

You can use a "global" configuration, stored in a specific location in your home directory. This will be used as a fallback configuration, that is, it will be used if and only if _Black_ doesn't find any configuration as mentioned above. Depending on your operating system, this configuration file should be stored as:

- Windows: `~\.black`
- Unix-like (Linux, MacOS, etc.): `$XDG_CONFIG_HOME/black` (`~/.config/black` if the
 `XDG_CONFIG_HOME` environment variable is not set)

Note that these are paths to the TOML file itself (meaning that they shouldn't be named as `pyproject.toml`), not directories where you store the configuration (i.e., `black`/`.black` is the file to create and add your configuration options to, in the `~/.config/` directory). Here, `~` refers to the path to your home
 directory. On
Windows, this will be something like `C:\\Users\UserName`.

You can also explicitly specify the path to a particular file that you want with `--config`. In this situation _Black_ will not look for any other file.

If you're running with `--verbose`, you will see a message if a file was found and used.

Please note `blackd` will not use `pyproject.toml` configuration.

Configuration format

As the file extension suggests, `pyproject.toml` is a [TOML](https://github.com/toml-lang/toml) file. It contains separate sections for different tools. _Black_ is using the `[tool.black]` section. The option keys are the same as long names of options on the command line.

Note that you have to use single-quoted strings in TOML for regular expressions. It's the equivalent of r-strings in Python. Multiline strings are treated as verbose regular expressions by Black. Use `[ ]` to denote a significant space character.

<details>
<summary>Example <code>pyproject.toml</code></summary>

```toml
[tool.black]
line-length
 = 88
target-version = ['py37']
include = '\.pyi?$'
# 'extend-exclude' excludes files or directories in addition to the defaults
extend-exclude = '''
# A regex preceded with ^/ will apply only to files and directories
# in the root of the project.
(
 ^/foo.py    # exclude a file named foo.py in the root of the project
 | .*_pb2.py  # exclude autogenerated Protocol Buffer files anywhere in the project
)
'''
```

</details>

Lookup hierarchy

Command-line options have defaults that you can see in `--help`. A `pyproject.toml` can override those defaults. Finally, options provided by the user on the command line override both.

Black will only ever use one `pyproject.toml` file during an entire run. It doesn't look for multiple files, and doesn't compose configuration from different levels of the file hierarchy.

Next steps

A good next step would be configuring auto-discovery so `black .` is all you need
instead of laborously listing every file or
 directory. You can get started by heading
over to [File collection and discovery](./file_collection_and_discovery.md).

Another good choice would be setting up an
[integration with your editor](../integrations/editors.md) of choice or with
[pre-commit for source version control](../integrations/source_version_control.md).
[project]
name = "test"
version = "1.0.0"
requires-python = ">=3.7,<3.11"

[tool.black]
line-length = 79
target-version = ["py310"]
Getting Started

New to _Black_? Don't worry, you've found the perfect place to get started!

Do you like the _Black_ code style?

Before using _Black_ on some of your code, it might be a good idea to first understand
how _Black_ will format your code. _Black_ isn't for everyone and you may find something
that is a dealbreaker for you personally, which is okay! The current _Black_ code style
[is described here](./the_black_code_style/current_style.md).

Try it out online

Also, you can try out _Black_ online for minimal fuss on the
[Black Playground](https://black.vercel.app) generously created by Jos Padilla.

Installation

Black can be installed by running `pip install black`. It requires Python 3.9+ to run.
If you want to format Jupyter Notebooks, install with `pip install "black[jupyter]"`.

If you use pipx, you can install Black with `pipx install black`.

If you can't wait for the latest _hotness_ and want to install from GitHub, use:

`pip install git+https://github.com/psf/black`

##
 Basic usage

To get started right away with sensible defaults:

```sh
black {source_file_or_directory}...
```

You can run _Black_ as a package if running it as a script doesn't work:

```sh
python -m black {source_file_or_directory}...
```

Next steps

Took a look at [the _Black_ code style](./the_black_code_style/current_style.md) and tried out _Black_? Fantastic, you're ready for more. Why not explore some more on using _Black_ by reading [Usage and Configuration: The basics](./usage_and_configuration/the_basics.md). Alternatively, you can check out the [Introducing _Black_ to your project](./guides/introducing_black_to_your_project.md) guide.


```
{
"cells": [
 {
  "cell_type": "code",
  "execution_count": null,
  "metadata": {
   "tags": []
  },
  "outputs": [],
  "source": [
   "%%time\n",
   "\n",
   "print('foo')"
  ]
 },
 {
  "cell_type": "code",
  "execution_count": null,
  "metadata": {},
  "outputs": [],
  "source": []
 }
],
"metadata": {},
"nbformat": 4,
"nbformat_minor": 4
}
```

Security Policy

Supported Versions

Only the latest non-prerelease version is supported.

Security contact information

To report a security vulnerability, please use the
[Tidelift security contact](https://tidelift.com/security). Tidelift will coordinate the
fix and disclosure.
name: Fuzz

on: [push, pull_request]

concurrency:
 group: ${{ github.workflow }}-${{ github.event.pull_request.number || github.sha }}
 cancel-in-progress: true

permissions:
 contents: read

jobs:
 build:
  # We want to run on external PRs, but not on our own internal PRs as they'll be run
  # by the push to the branch. Without this if check, checks are duplicated since
  # internal PRs match both the push and pull_request events.
  if:
   github.event_name == 'push' || github.event.pull_request.head.repo.full_name !=
   github.repository

  runs-on: ubuntu-latest
  strategy:
   fail-fast: false
   matrix:
    python-version: ["3.9", "3.10", "3.11", "3.12.4", "3.13"]

  steps:
   - uses: actions/checkout@v4

   - name: Set up Python ${{ matrix.python-version }}
    uses: actions/setup-python@v5
    with:
     python-version: ${{ matrix.python-version }}
     allow-prereleases: true

   - name: Install dependencies
    run:

```
|
        python -m pip install --upgrade pip
        python -m pip install --upgrade tox

    - name: Run fuzz tests
      run: |
        tox -e fuzz
```

Black Docker image

Official _Black_ Docker images are available on
[Docker Hub](https://hub.docker.com/r/pyfound/black).

Black images with the following tags are available:

- release numbers, e.g. `21.5b2`, `21.6b0`, `21.7b0` etc.\
  Recommended for users who want to use a particular version of _Black_.
- `latest_release` - tag created when a new version of _Black_ is released.\
  Recommended for users who want to use released versions of _Black_. It maps to
  [the latest release](https://github.com/psf/black/releases/latest) of _Black_.
- `latest_prerelease` - tag created when a new alpha (prerelease) version of _Black_ is
  released.\
  Recommended for users who want to preview or test alpha versions of _Black_. Note
  that the most recent release may be newer than any prerelease, because no prereleases
  are created before most releases.
- `latest` - tag used for the newest image of _Black_.\
  Recommended for users who always want to use the latest version of _Black_, even
  before it is released.

There is one more tag used for _Black_ Docker images - `latest_non_release`. It is
created for all unreleased
[commits on the `main` branch](https://github.com/psf/black/commits/main). This tag is
not meant to be used by external users.

From version 23.11.0 the Docker image installs a compiled black into the image.

Usage

A permanent container doesn't have to be created to use _Black_ as a Docker image. It's
enough to run _Black_ commands for the chosen image denoted as `:tag`. In the below
examples, the `latest_release` tag is used. If `:tag` is omitted, the `latest` tag will
be used.

More about _Black_ usage can be found in
[Usage and Configuration: The basics](./the_basics.md).

Check Black version

```console
```

$ docker run --rm pyfound/black:latest_release black --version
```

### Check code

```console
$ docker run --rm --volume $(pwd):/src --workdir /src pyfound/black:latest_release black --check .
```

Remark: besides [regular _Black_ exit
 codes](./the_basics.md) returned by `--check`
option, [Docker exit codes](https://docs.docker.com/engine/reference/run/#exit-status)
should also be considered.
---
orphan: true

License

```{include} ../LICENSE

```
name: changelog

on:
 pull_request:
   types: [opened, synchronize, labeled, unlabeled, reopened]

permissions:
 contents: read

jobs:
 build:
   name: Changelog Entry Check

   runs-on: ubuntu-latest

   steps:
     - uses: actions/checkout@v4

     - name: Grep CHANGES.md for PR number
       if: contains(github.event.pull_request.labels.*.name, 'skip news') != true
       run: |
         grep -Pz "\((\n\s*)?#${{ github.event.pull_request.number }}(\n\s*)?\)" CHANGES.md || \
         (echo "Please add '(#${{ github.event.pull_request.number }})' change line to CHANGES.md (or if appropriate, ask a maintainer to add the 'skip news' label)" && \
         exit 1)
```

Used by ReadTheDocs; pinned requirements for stability.

myst-parser==4.0.0
Sphinx==8.1.3
# Older versions break Sphinx even though they're declared to be supported.
docutils==0.21.2
sphinxcontrib-programoutput==0.18
sphinx_copybutton==0.5.2
furo==2024.8.6
node: 8a737e727ac5ab2f1d4cf5876720ed276dc8dc4b
node-date: 2025-01-28T18:34:41-08:00
describe-name: 25.1.0
ref-names: tag: 25.1.0
[*.py]
profile = black
# Editor integration

Emacs

Options include the following:

- [wbolster/emacs-python-black](https://github.com/wbolster/emacs-python-black)
- [proofit404/blacken](https://github.com/pythonic-emacs/blacken)
- [Elpy](https://github.com/jorgenschaefer/elpy).

PyCharm/IntelliJ IDEA

There are several different ways you can use _Black_ from PyCharm:

1. Using the built-in _Black_ integration (PyCharm 2023.2 and later). This option is the simplest to set up.
1. As local server using the BlackConnect plugin. This option formats the fastest. It spins up {doc}`Black's HTTP server </usage_and_configuration/black_as_a_server>`, to avoid the startup cost on subsequent formats.
1. As external tool.
1. As file watcher.

Built-in _Black_ integration

1. Install `black`.

   ```console
   $ pip install black
   ```

1. Go to `Preferences or Settings -> Tools -> Black` and configure _Black_ to your liking.

As local server

1. Install _Black_ with the `d` extra.

  ```console
  $ pip install 'black[d]'
  ```

1. Install
  [BlackConnect IntelliJ IDEs plugin](https://plugins.jetbrains.com/plugin/14321-blackconnect).

1. Open plugin configuration in PyCharm/IntelliJ IDEA

  On macOS:

  `PyCharm -> Preferences -> Tools -> BlackConnect`

  On Windows / Linux / BSD:

  `File -> Settings -> Tools -> BlackConnect`

1. In `Local Instance (shared between projects)` section:

  1. Check `Start local blackd instance when plugin loads`.
  1. Press the `Detect` button near `Path` input. The plugin should detect the `blackd`
     executable.

1. In `Trigger Settings` section check `Trigger on code reformat` to enable code
  reformatting with _Black_.

1. Format the currently opened file by selecting `Code -> Reformat Code` or using a
  shortcut.

1. Optionally, to run _Black_ on every file save:

  - In `Trigger Settings` section of plugin configuration check
    `Trigger when saving changed files`.

As external tool

1. Install `black`.

  ```console
  $ pip install black
  ```

1. Locate your `black` installation folder.

On macOS / Linux / BSD:

```console
$ which black
/usr/local/bin/black  # possible location
```

On Windows:

```console
$ where black
%LocalAppData%\Programs\Python\Python36-32\Scripts\black.exe  # possible location
```

Note that if you are using a virtual environment detected by PyCharm, this is an
unneeded step. In this case the path to `black` is `$PyInterpreterDirectory$/black`.

1. Open External tools in PyCharm/IntelliJ IDEA

On macOS:

`PyCharm -> Preferences -> Tools -> External Tools`

On Windows / Linux / BSD:

`File -> Settings -> Tools -> External Tools`

1. Click the + icon to add a new external tool with the following values:

- Name: Black
- Description: Black is the uncompromising Python code formatter.
- Program: \<install_location_from_step_2>
- Arguments: `"$FilePath$"`

1. Format the currently opened file by selecting `Tools -> External
Tools -> black`.

- Alternatively, you can set a keyboard shortcut by navigating to
  `Preferences or Settings -> Keymap -> External Tools -> External Tools - Black`.

As file watcher

1. Install `black`.

```console
$ pip install black
```

1. Locate your `black` installation folder.

  On macOS / Linux / BSD:

  ```console
  $ which black
  /usr/local/bin/black  # possible location
  ```

  On Windows:

  ```console
  $ where black
  %LocalAppData%\Programs\Python\Python36-32\Scripts\black.exe  # possible location
  ```

  Note that if you are using a virtual environment detected by PyCharm, this is an
  unneeded step. In this case the path to `black` is `$PyInterpreterDirectory$/black`.

1. Make sure you have the
  [File Watchers](https://plugins.jetbrains.com/plugin/7177-file-watchers) plugin
  installed.
1. Go to `Preferences or Settings -> Tools -> File Watchers` and click `+` to add a new
  watcher:
  - Name: Black
  - File type: Python
   - Scope: Project Files
  - Program: \<install_location_from_step_2>
  - Arguments: `$FilePath$`
  - Output paths to refresh: `$FilePath$`
  - Working directory: `$ProjectFileDir$`

- In Advanced Options
 - Uncheck "Auto-save edited files to trigger the watcher"
 - Uncheck "Trigger the watcher on external changes"

Wing IDE

Wing IDE supports `black` via **Preference Settings** for system wide settings and
Project Properties for per-project or workspace specific settings, as explained in
the Wing documentation on
[Auto-Reformatting](https://wingware.com/doc/edit/auto-reformatting). The detailed
procedure is:

Prerequistes

- Wing IDE version 8.0+

- Install `black`.

```console
$ pip install black
```

- Make sure it runs from the command line, e.g.

```console
$ black --help
```

Preference Settings

If you want Wing IDE to always reformat with `black` for every project, follow these steps:

1. In menubar navigate to `Edit -> Preferences -> Editor -> Reformatting`.

1. Set **Auto-Reformat** from `disable` (default) to `Line after edit` or `Whole files before save`.

1. Set **Reformatter** from `PEP8` (default) to `Black`.

Project Properties

If you want to just reformat for a specific project and not intervene with Wing IDE global setting, follow these steps:

1. In menubar navigate to `Project -> Project Properties -> Options`.

1. Set **Auto-Reformat** from `Use Preferences setting` (default) to `Line after edit` or `Whole files before save`.

1. Set **Reformatter** from `Use Preferences setting` (default) to `Black`.

Vim

Official plugin

Commands and shortcuts:

- `:Black` to format the entire file (ranges not supported);
  - you can optionally pass `target_version=<version>` with the same values as in the command line.
- `:BlackUpgrade` to upgrade _Black_ inside the virtualenv;
- `:BlackVersion` to get the current version of _Black_ in use.

Configuration:

- `g:black_fast` (defaults to `0`)
- `g:black_linelength`
 (defaults to `88`)
- `g:black_skip_string_normalization` (defaults to `0`)
- `g:black_skip_magic_trailing_comma` (defaults to `0`)
- `g:black_virtualenv` (defaults to `~/.vim/black` or `~/.local/share/nvim/black`)
- `g:black_use_virtualenv` (defaults to `1`)
- `g:black_target_version` (defaults to `""`)
- `g:black_quiet` (defaults to `0`)
- `g:black_preview` (defaults to `0`)

Installation

This plugin **requires Vim 7.0+ built with Python 3.9+ support**. It needs Python 3.9 to be able to run _Black_ inside the Vim process which is much faster than calling an external command.

`vim-plug`

To install with [vim-plug](https://github.com/junegunn/vim-plug):

Black's `stable` branch tracks official version updates, and can be used to simply follow the most recent stable version.

```
Plug 'psf/black', { 'branch': 'stable' }
```

Another option which is a bit more explicit and offers more control is to use `vim-plug`'s `tag` option with a shell wildcard. This will
 resolve to the latest tag
which matches the given pattern.

The following matches all stable versions (see the [Release Process](../contributing/release_process.md) section for documentation of version scheme used by Black):

```
Plug 'psf/black', { 'tag': '*.*.*' }
```

and the following demonstrates pinning to a specific year's stable style (2022 in this case):

```
```

```
Plug 'psf/black', { 'tag': '22.*.*' }
```

Vundle

or with [Vundle](https://github.com/VundleVim/Vundle.vim):

```
Plugin 'psf/black'
```

and execute the following in a terminal:

```console
$ cd ~/.vim/bundle/black
$ git checkout origin/stable -b stable
```

Arch Linux

On Arch Linux, the plugin is shipped with the [`python-black`](https://archlinux.org/packages/extra/any/python-black/) package, so you can start using it in Vim after install with no additional setup.

Vim 8 Native Plugin Management

or you can copy the plugin files from [plugin/black.vim](https://github.com/psf/black/blob/stable/plugin/black.vim) and [autoload/black.vim](https://github.com/psf/black/blob/stable/autoload/black.vim).

```
mkdir -p ~/.vim/pack/python/start/black/plugin
mkdir -p ~/.vim/pack/python/start/black/autoload
curl https://raw.githubusercontent.com/psf/black/stable/plugin/black.vim -o
~/.vim/pack/python/start/black/plugin/black.vim
curl https://raw.githubusercontent.com/psf/black/stable/autoload/black.vim -o
~/.vim/pack/python/start/black/autoload/black.vim
```

Let me know if this requires any changes to work with Vim 8's builtin `packadd`, or Pathogen, and so on.

Usage

On first run, the plugin creates its own virtualenv using the right Python version and automatically installs _Black_. You can upgrade it later by calling `:BlackUpgrade` and restarting Vim.

If you need to do anything special to make your virtualenv work and install _Black_ (for example you want to run a version from main), create a virtualenv manually and point `g:black_virtualenv` to it. The plugin will use it.

If you
 would prefer to use the system installation of _Black_ rather than a virtualenv,
then add this to your vimrc:

```
let g:black_use_virtualenv = 0
```

Note that the `:BlackUpgrade` command is only usable and useful with a virtualenv, so when the virtualenv is not in use, `:BlackUpgrade` is disabled. If you need to upgrade the system installation of _Black_, then use your system package manager or pip--whatever tool you used to install _Black_ originally.

To run _Black_ on save, add the following lines to `.vimrc` or `init.vim`:

```
augroup black_on_save
 autocmd!
 autocmd BufWritePre *.py Black
augroup end
```

To run _Black_ on a key press (e.g. F9 below), add this:

```
nnoremap <F9> :Black<CR>
```

With ALE

1. Install [`ale`](https://github.com/dense-analysis/ale)

1. Install `black`

1. Add this to your vimrc:

  ```vim
  let g:ale_fixers = {}
  let g:ale_fixers.python = ['black']
  ```

Gedit

gedit is the default text editor of the GNOME, Unix like Operating Systems.
Open gedit
as

```console
$ gedit <file_name>
```

1. `Go to edit > preferences > plugins`
1. Search for `external tools` and activate it.
1. In `Tools menu -> Manage external tools`
1. Add a new tool using `+` button.
1. Copy the below content to the code window.

```console
#!/bin/bash
Name=$GEDIT_CURRENT_DOCUMENT_NAME
black $Name
```

- Set a keyboard shortcut if you like, Ex. `ctrl-B`
- Save: `Nothing`
- Input: `Nothing`
- Output: `Display in bottom pane` if you like.
- Change the name of the tool if you like.

Use your keyboard shortcut or `Tools -> External Tools` to use your new tool. When you close and reopen your File, _Black_ will be done with its job.

Visual Studio Code

- Use the
[Python extension](https://marketplace.visualstudio.com/items?itemName=ms-python.python)
([instructions](https://code.visualstudio.com/docs/python/formatting)).

- Alternatively the pre-release
[Black Formatter](https://marketplace.visualstudio.com/items?itemName=ms-python.black-formatter)
extension can be used which runs a [Language Server Protocol](https://langserver.org/)
server for Black. Formatting is much more responsive using this extension, **but the
minimum supported version of Black is 22.3.0**.

SublimeText

For SublimeText 3, use [sublack plugin](https://github.com/jgirardet/sublack). For higher versions, it is recommended to use [LSP](#python-lsp-server) as documented below.

Python LSP Server

If your editor supports the [Language Server Protocol](https://langserver.org/) (Atom, Sublime Text, Visual Studio Code and many more), you can use the [Python LSP Server](https://github.com/python-lsp/python-lsp-server) with the [python-lsp-black](https://github.com/python-lsp/python-lsp-black) plugin.

Atom/Nuclide

Use [python-black](https://atom.io/packages/python-black) or [formatters-python](https://atom.io/packages/formatters-python).

Gradle (the build tool)

Use the [Spotless](https://github.com/diffplug/spotless/tree/main/plugin-gradle) plugin.

Kakoune

Add the following hook to your kakrc, then run _Black_ with `:format`.

```
hook global WinSetOption filetype=python %{
  set-option window formatcmd 'black -q  -'
}
```

Thonny

Use [Thonny-black-formatter](https://pypi.org/project/thonny-black-formatter/).
Guides

```{toctree}
---
hidden:
---

introducing_black_to_your_project
using_black_with_other_tools
```

Wondering how to do something specific? You've found the right place! Listed below are topic specific guides available:

- {doc}`introducing_black_to_your_project`
- {doc}`using_black_with_other_tools`
name: Test

on:
 push:

```
  paths-ignore:
    - "docs/**"
    - "*.md"

 pull_request:
  paths-ignore:
    - "docs/**"
    - "*.md"

permissions:
 contents: read

concurrency:
 group: ${{ github.workflow }}-${{ github.event.pull_request.number || github.run_id }}
 cancel-in-progress: true

jobs:
 main:
  # We want to run on external PRs, but not on our own internal PRs as they'll be run
  # by the push to the branch. Without this if check, checks are duplicated since
  # internal PRs match both the push and pull_request events.
  if:
    github.event_name == 'push' || github.event.pull_request.head.repo.full_name !=
    github.repository

  runs-on: ${{ matrix.os }}
  strategy:
    fail-fast: false
    matrix:
      python-version: ["3.9", "3.10", "3.11", "3.12.4", "3.13", "pypy-3.9"]
      os: [ubuntu-latest, macOS-latest, windows-latest]

  steps:
    - uses: actions/checkout@v4

    - name: Set up Python ${{ matrix.python-version }}

  uses: actions/setup-python@v5
      with:
        python-version: ${{ matrix.python-version }}
        allow-prereleases: true

    - name: Install tox
      run: |
        python -m pip install --upgrade pip
        python -m pip install --upgrade tox

    - name: Unit tests
```

```
      if: "!startsWith(matrix.python-version, 'pypy')"
      run:
        tox -e ci-py$(echo ${{ matrix.python-version }} | tr -d '.') -- -v --color=yes

    - name: Unit tests (pypy)
      if: "startsWith(matrix.python-version, 'pypy')"
      run: tox -e ci-pypy3 -- -v --color=yes

    - name: Upload coverage to Coveralls
      # Upload coverage if we are on the main repository and
      # we're running on Linux (this action only supports Linux)
      if:
        github.repository == 'psf/black' && matrix.os == 'ubuntu-latest' &&
        !startsWith(matrix.python-version, 'pypy')
      uses: AndreMiras/coveralls-python-action@ac868b9540fad490f7ca82b8ca00480fd751ed19

      with:
        github-token: ${{ secrets.GITHUB_TOKEN }}
        parallel: true
        flag-name: py${{ matrix.python-version }}-${{ matrix.os }}
        debug: true

  coveralls-finish:
    needs: main
    if: github.repository == 'psf/black'

    runs-on: ubuntu-latest
    steps:
      - uses: actions/checkout@v4
      - name: Send finished signal to Coveralls
        uses: AndreMiras/coveralls-python-action@ac868b9540fad490f7ca82b8ca00480fd751ed19
        with:
          parallel-finished: true
          debug: true

  uvloop:
    if:
      github.event_name == 'push' || github.event.pull_request.head.repo.full_name !=
      github.repository
    runs-on: ${{ matrix.os }}
    strategy:
      fail-fast: false
      matrix:
        os: [ubuntu-latest, macOS-latest]

    steps:
      - uses: actions/checkout@v4
```

```
    - name: Set up latest Python
      uses: actions/setup-python@v5
      with:
        python-version: "3.12.4"

    - name: Install black with uvloop
       run: |
        python -m pip install pip --upgrade --disable-pip-version-check
        python -m pip install -e ".[uvloop]"

    - name: Format ourselves
      run: python -m black --check src/ tests/
```

```
<!-- Hello! Thanks for submitting a PR. To help make things go a bit more
   smoothly we would appreciate that you go through this template. -->

### Description

<!-- Good things to put here include: reasoning for the change (please link
   any relevant issues!), any noteworthy (or hacky) choices to be aware of,
   or what the problem resolved here looked like ... we won't mind a ranty
   story :) -->

### Checklist - did you ...

<!-- If any of the following items aren't relevant for your contribution
   please still tick them so we know you've gone through the checklist.

  All user-facing changes should get an entry. Otherwise, signal to us
  this should get the magical label to silence the CHANGELOG entry check.
  Tests are required for bugfixes and new features. Documentation changes
  are necessary for formatting and most enhancement changes. -->

- [ ] Add an entry in `CHANGES.md` if necessary?
- [ ] Add / update tests if necessary?
- [ ] Add new / update outdated
 documentation?

<!-- Just as a reminder, everyone in all psf/black spaces including PRs
   must follow the PSF Code of Conduct (link below).

   Finally, once again thanks for your time and effort. If you have any
   feedback in regards to your experience contributing here, please
   let us know!

   Helpful links:

    PSF COC: https://www.python.org/psf/conduct/
    Contributing docs: https://black.readthedocs.io/en/latest/contributing/index.html
```

```
    Chat on Python Discord: https://discord.gg/RtVdv86PrH -->
name: Build and publish

on:
 release:
   types: [published]
 pull_request:
 push:
   branches:
     - main

permissions:
 contents: read

jobs:
 main:
   name: sdist + pure wheel
   runs-on: ubuntu-latest
   if: github.event_name == 'release'

   steps:
     - uses: actions/checkout@v4

     - name: Set up latest Python
       uses: actions/setup-python@v5
       with:
         python-version: "3.13"
         allow-prereleases: true

     - name: Install latest pip, build, twine
       run: |
         python -m pip install --upgrade --disable-pip-version-check pip
         python -m pip install --upgrade build twine

     - name: Build wheel and source distributions
       run: python -m build

     - if: github.event_name == 'release'
       name: Upload to PyPI via Twine
       env:
         TWINE_PASSWORD: ${{ secrets.PYPI_TOKEN }}
       run: twine upload --verbose -u '__token__' dist/*

 generate_wheels_matrix:
   name: generate wheels matrix
   runs-on:
 ubuntu-latest
   outputs:
```

```
    include: ${{ steps.set-matrix.outputs.include }}
  steps:
    - uses: actions/checkout@v4
    # Keep cibuildwheel version in sync with below
    - name: Install cibuildwheel and pypyp
      run: |
        pipx install cibuildwheel==2.22.0
        pipx install pypyp==1.3.0
    - name: generate matrix
      if: github.event_name != 'pull_request'
      run: |
        {
          cibuildwheel --print-build-identifiers --platform linux \
          | pyp 'json.dumps({"only": x, "os": "ubuntu-latest"})' \
          && cibuildwheel --print-build-identifiers --platform macos \
          | pyp 'json.dumps({"only": x, "os": "macos-latest"})' \
          && cibuildwheel --print-build-identifiers --platform windows \
          | pyp 'json.dumps({"only": x, "os": "windows-latest"})'
        } | pyp 'json.dumps(list(map(json.loads, lines)))' > /tmp/matrix
      env:
        CIBW_ARCHS_LINUX: x86_64
        CIBW_ARCHS_MACOS:
x86_64 arm64
        CIBW_ARCHS_WINDOWS: AMD64
    - name: generate matrix (PR)
      if: github.event_name == 'pull_request'
      run: |
        {
          cibuildwheel --print-build-identifiers --platform linux \
          | pyp 'json.dumps({"only": x, "os": "ubuntu-latest"})'
        } | pyp 'json.dumps(list(map(json.loads, lines)))' > /tmp/matrix
      env:
        CIBW_BUILD: "cp39-* cp313-*"
        CIBW_ARCHS_LINUX: x86_64
    - id: set-matrix
      run: echo "include=$(cat /tmp/matrix)" | tee -a $GITHUB_OUTPUT

mypyc:
  name: mypyc wheels ${{ matrix.only }}
  needs: generate_wheels_matrix
  runs-on: ${{ matrix.os }}
  strategy:
    fail-fast: false
    matrix:
      include: ${{ fromJson(needs.generate_wheels_matrix.outputs.include) }}

  steps:
    - uses: actions/checkout@v4
```

```
    # Keep cibuildwheel version in sync with above
    - uses: pypa/cibuildwheel@v2.22.0
      with:
        only: ${{ matrix.only }}

    -
 name: Upload wheels as workflow artifacts
      uses: actions/upload-artifact@v4
      with:
        name: ${{ matrix.only }}-mypyc-wheels
        path: ./wheelhouse/*.whl

    - if: github.event_name == 'release'
      name: Upload wheels to PyPI via Twine
      env:
        TWINE_PASSWORD: ${{ secrets.PYPI_TOKEN }}
      run: pipx run twine upload --verbose -u '__token__' wheelhouse/*.whl

 update-stable-branch:
  name: Update stable branch
  needs: [main, mypyc]
  runs-on: ubuntu-latest
  if: github.event_name == 'release'
  permissions:
    contents: write

  steps:
    - name: Checkout stable branch
      uses: actions/checkout@v4
      with:
        ref: stable
        fetch-depth: 0

    - if: github.event_name == 'release'
      name: Update stable branch to release tag & push
      run: |
        git reset --hard ${{ github.event.release.tag_name }}
        git push
name: "Black"
description: "The uncompromising Python code formatter."
author: "ukasz Langa and contributors to Black"
inputs:
 options:
  description:
    "Options passed to Black. Use `black --help` to see available options. Default:
    '--check --diff'"
  required: false
  default: "--check --diff"
```

```
  src:
    description: "Source to run Black. Default: '.'"
    required: false
    default: "."
  jupyter:
    description:
      "Set this option to true to include Jupyter Notebook files. Default: false"
    required: false
    default: false
  black_args:
    description: "[DEPRECATED] Black input arguments."
    required: false
    default: ""
    deprecationMessage:
      "Input `with.black_args` is deprecated. Use `with.options` and `with.src` instead."
  version:
    description: 'Python Version specifier (PEP440) - e.g. "21.5b1"'
    required: false
    default: ""
  use_pyproject:
    description: Read Black version specifier from pyproject.toml if `true`.
    required:
  false
    default: "false"
  summary:
    description: "Whether to add the output to the workflow summary"
    required: false
    default: true
branding:
  color: "black"
  icon: "check-circle"
runs:
  using: composite
  steps:
    - name: black
      run: |
        # Even when black fails, do not close the shell
        set +e

        if [ "$RUNNER_OS" == "Windows" ]; then
          runner="python"
        else
          runner="python3"
        fi

        out=$(${runner} $GITHUB_ACTION_PATH/action/main.py)
        exit_code=$?
```

```
      # Display the raw output in the step
      echo "${out}"

      if [ "${{ inputs.summary }}" == "true" ]; then
        # Display the Markdown output in the job summary
        echo "\`\`\`python" >> $GITHUB_STEP_SUMMARY
        echo "${out}" >> $GITHUB_STEP_SUMMARY
        echo "\`\`\`" >> $GITHUB_STEP_SUMMARY
      fi

      # Exit with the exit-code returned by Black
      exit ${exit_code}
    env:
      # TODO: Remove once
 https://github.com/actions/runner/issues/665 is fixed.
      INPUT_OPTIONS: ${{ inputs.options }}
      INPUT_SRC: ${{ inputs.src }}
      INPUT_JUPYTER: ${{ inputs.jupyter }}
      INPUT_BLACK_ARGS: ${{ inputs.black_args }}
      INPUT_VERSION: ${{ inputs.version }}
      INPUT_USE_PYPROJECT: ${{ inputs.use_pyproject }}
      pythonioencoding: utf-8
    shell: bash
# See also: https://docs.github.com/en/communities/using-templates-to-encourage-useful-issues-and-pull-
requests/configuring-issue-templates-for-your-repository#configuring-the-template-chooser

# This is the default and blank issues are useful so let's keep 'em.
blank_issues_enabled: true

contact_links:
 - name: Chat on Python Discord
   url: https://discord.gg/RtVdv86PrH
   about: |
     User support, questions, and other lightweight requests can be
     handled via the #black-formatter text channel we have on Python
     Discord.
{
"cells": [
 {
  "cell_type": "code",
  "execution_count": null,
  "metadata": {
   "tags": []
  },
  "outputs": [],
  "source": [
   "%%time\n",
   "\n",
```

"print('foo')"
]
},
{
"cell_type": "code",
"execution_count": null,
"metadata": {},
"outputs": [],
"source": []
}
],
"metadata": {
"interpreter": {
"hash": "e758f3098b5b55f4d87fe30bbdc1367f20f246b483f96267ee70e6c40cb185d8"
},
"kernelspec": {
"display_name": "Python 3.8.10 64-bit ('black': venv)",
"name": "python3"
},
"language_info": {
"name": "python",
"version": ""
}
},
"nbformat": 4,
"nbformat_minor": 4
}
# Introducing _Black_ to your project

```{note}
This guide is incomplete. Contributions are welcomed and would be deeply
appreciated!
```

Avoiding ruining git blame

A long-standing argument against moving to automated code formatters like _Black_ is
that the migration will clutter up the output of `git blame`. This was a valid argument,
but since Git version 2.23, Git natively supports
[ignoring revisions in blame](https://git-scm.com/docs/git-blame#Documentation/git-blame.txt---ignore-revltrevgt)
with the `--ignore-rev` option. You can also pass a file listing the revisions to ignore
using the `--ignore-revs-file` option. The changes made by the revision will be ignored
when assigning blame. Lines modified by an ignored revision will be blamed on the
previous revision that modified those lines.

So when migrating your project's code style to _Black_, reformat everything and commit
the changes (preferably in one massive commit). Then put the full 40 characters commit
identifier(s)

into a file usually called `.git-blame-ignore-revs` at the root of your
project directory.

```text
# Migrate code style to Black
5b4ab991dede475d393e9d69ec388fd6bd949699
```

Afterwards, you can pass that file to `git blame` and see clean and meaningful blame
information.

```console
$ git blame important.py --ignore-revs-file .git-blame-ignore-revs
7a1ae265 (John Smith 2019-04-15 15:55:13 -0400 1) def very_important_function(text, file):
abdfd8b0 (Alice Doe  2019-09-23 11:39:32 -0400 2)     text = text.lstrip()
7a1ae265 (John Smith 2019-04-15 15:55:13 -0400 3)     with open(file, "r+") as f:
7a1ae265 (John Smith 2019-04-15 15:55:13 -0400 4)         f.write(formatted)
```

You can even configure `git` to automatically ignore revisions listed in a file on every
call to `git blame`.

```console
$ git config blame.ignoreRevsFile .git-blame-ignore-revs
```

**The one caveat is that some online Git-repositories like GitLab do not yet support
ignoring revisions using their native blame UI.**
So blame information will be cluttered
with a reformatting commit on those platforms. (If you'd like this feature, there's an
open issue for [GitLab](https://gitlab.com/gitlab-org/gitlab/-/issues/31423)).
[GitHub supports `.git-blame-ignore-revs`](https://docs.github.com/en/repositories/working-with-files/using-files/viewing-a-file#ignore-commits-in-the-blame-view)
by default in blame views however.
```{include} ../CHANGES.md

```
[tool.isort]
profile = 'black'
cff-version: 1.2.0
title: "Black: The uncompromising Python code formatter"
message: >-
 If you use this software, please cite it using the metadata from this file.
type: software
authors:
 - family-names: Langa
   given-names: ukasz
 - name: "contributors to Black"

```
repository-code: "https://github.com/psf/black"
url: "https://black.readthedocs.io/en/stable/"
abstract: >-
 Black is the uncompromising Python code formatter. By using it, you agree to cede
 control over minutiae of hand-formatting. In return, Black gives you speed,
 determinism, and freedom from pycodestyle nagging about formatting. You will save time
 and mental energy for more important matters.

 Blackened code looks the same regardless of the project you're reading. Formatting
 becomes transparent after a while and you can focus on the content instead.

 Black makes code review faster by producing the smallest diffs possible.
license: MIT
name: Release tool CI

on:
 push:
   paths:
     - .github/workflows/release_tests.yml
     - release.py
     - release_tests.py
 pull_request:
   paths:
     - .github/workflows/release_tests.yml
     - release.py
     - release_tests.py

jobs:
 build:
   # We want to run on external PRs, but not on our own internal PRs as they'll be run
   # by the push to the branch. Without this if check, checks are duplicated since
   # internal PRs match both the push and pull_request events.
   if:
     github.event_name == 'push' || github.event.pull_request.head.repo.full_name !=
     github.repository

   name: Running python ${{ matrix.python-version }} on ${{matrix.os}}
   runs-on: ${{ matrix.os }}
   strategy:
     matrix:
       python-version: ["3.13"]
       os: [macOS-latest, ubuntu-latest, windows-latest]

   steps:
     - uses: actions/checkout@v4
       with:
         # Give us all history, branches and tags
         fetch-depth: 0
```

```
    - name: Set up Python
 ${{ matrix.python-version }}
      uses: actions/setup-python@v5
      with:
        python-version: ${{ matrix.python-version }}
        allow-prereleases: true

    - name: Print Python Version
      run: python --version --version && which python

    - name: Print Git Version
      run: git --version && which git

    - name: Update pip, setuptools + wheels
      run: |
        python -m pip install --upgrade pip setuptools wheel

    - name: Run unit tests via coverage + print report
      run: |
        python -m pip install coverage
        coverage run scripts/release_tests.py
        coverage report --show-missing
--- [Deterministic header]
+++ [Deterministic header]
@@ -1,8 +1,8 @@
...
-'some_string'
-b'\\xa3'
+"some_string"
+b"\\xa3"
Name
None
True
False
1
@@ -21,99 +21,118 @@
Name1 or (Name2 and Name3) or Name4
Name1 or Name2 and Name3 or Name4
v1 << 2
1 >> v2
1 % finished
-1 + v2 - v3 * 4 ^ 5 ** v6 / 7 // 8
-((1 + v2) - (v3 * 4)) ^ (((5 ** v6) / 7) // 8)
+1 + v2 - v3 * 4 ^ 5**v6 / 7 // 8
+((1 + v2) - (v3 * 4)) ^ (((5**v6) / 7) // 8)
not great
~great
+value
```

```
-1
~int and not v1 ^ 123 + v2 | True
(~int) and (not ((v1 ^ (123 + v2)) | True))
-+really ** -confusing ** ~operator ** -precedence
-flags & ~ select.EPOLLIN and waiters.write_task is not None
++(really ** -(confusing ** ~(operator**-precedence)))
+flags & ~select.EPOLLIN and waiters.write_task is not None
lambda arg: None
lambda a=True: a
lambda a, b, c=True: a
-lambda a, b, c=True, *, d=(1 << v2), e='str': a
-lambda a, b, c=True, *vararg, d=(v1 << 2), e='str', **kwargs: a + b
+lambda a, b, c=True, *, d=(1 << v2), e="str":
 a
+lambda a, b, c=True, *vararg, d=(v1 << 2), e="str", **kwargs: a + b
manylambdas = lambda x=lambda y=lambda z=1: z: y(): x()
-foo = (lambda port_id, ignore_missing: {"port1": port1_resource, "port2": port2_resource}[port_id])
+foo = lambda port_id, ignore_missing: {
+    "port1": port1_resource,
+    "port2": port2_resource,
+}[port_id]
1 if True else 2
str or None if True else str or bytes or None
(str or None) if True else (str or bytes or None)
str or None if (1 if True else 2) else str or bytes or None
(str or None) if (1 if True else 2) else (str or bytes or None)
-((super_long_variable_name or None) if (1 if super_long_test_name else 2) else (str or bytes or None))
-{'2.7': dead, '3.7': (long_live or die_hard)}
-{'2.7': dead, '3.7': (long_live or die_hard), **{'3.6': verygood}}
+(
+    (super_long_variable_name or None)
+    if (1 if super_long_test_name else 2)
+    else (str or bytes or None)
+)
+{"2.7": dead, "3.7": (long_live or die_hard)}
+{"2.7": dead, "3.7": (long_live
 or die_hard), **{"3.6": verygood}}
{**a, **b, **c}
-{'2.7', '3.6', '3.7', '3.8', '3.9', ('4.0' if gilectomy else '3.10')}
-({'a': 'b'}, (True or False), (+value), 'string', b'bytes') or None
+{"2.7", "3.6", "3.7", "3.8", "3.9", ("4.0" if gilectomy else "3.10")}
+({"a": "b"}, (True or False), (+value), "string", b"bytes") or None
()
(1,)
(1, 2)
(1, 2, 3)
[]
[1, 2, 3, 4, 5, 6, 7, 8, 9, (10 or A), (11 or B), (12 or C)]
```

```
-[1, 2, 3,]
+[1, 2, 3]
[*a]
[*range(10)]
-[*a, 4, 5,]
-[4, *a, 5,]
-[this_is_a_very_long_variable_which_will_force_a_delimiter_split, element, another, *more]
+[*a, 4, 5]
+[4, *a, 5]
+[
+    this_is_a_very_long_variable_which_will_force_a_delimiter_split,
+    element,
+    another,
+    *more,
+]
{i for i in (1, 2, 3)}
-{(i ** 2) for i in (1, 2, 3)}
-{(i ** 2) for i, _ in ((1, 'a'), (2, 'b'), (3, 'c'))}
-{((i ** 2) + j) for i in (1, 2, 3) for j in (1, 2, 3)}
+{(i**2) for i in (1, 2, 3)}
+{(i**2) for i, _ in ((1, "a"), (2, "b"), (3, "c"))}
+{((i**2) + j)
 for i in (1, 2, 3) for j in (1, 2, 3)}
[i for i in (1, 2, 3)]
-[(i ** 2) for i in (1, 2, 3)]
-[(i ** 2) for i, _ in ((1, 'a'), (2, 'b'), (3, 'c'))]
-[((i ** 2) + j) for i in (1, 2, 3) for j in (1, 2, 3)]
+[(i**2) for i in (1, 2, 3)]
+[(i**2) for i, _ in ((1, "a"), (2, "b"), (3, "c"))]
+[((i**2) + j) for i in (1, 2, 3) for j in (1, 2, 3)]
{i: 0 for i in (1, 2, 3)}
-{i: j for i, j in ((1, 'a'), (2, 'b'), (3, 'c'))}
+{i: j for i, j in ((1, "a"), (2, "b"), (3, "c"))}
{a: b * 2 for a, b in dictionary.items()}
{a: b * -2 for a, b in dictionary.items()}
-{k: v for k, v in
this_is_a_very_long_variable_which_will_cause_a_trailing_comma_which_breaks_the_comprehension}
+{
+    k: v
+    for k, v in
this_is_a_very_long_variable_which_will_cause_a_trailing_comma_which_breaks_the_comprehension
+}
Python3 > Python2 > COBOL
Life is Life
call()
call(arg)
-call(kwarg='hey')
-call(arg, kwarg='hey')
```

```
-call(arg, another, kwarg='hey', **kwargs)
-call(this_is_a_very_long_variable_which_will_force_a_delimiter_split,
 arg, another, kwarg='hey', **kwargs)  # note: no trailing comma pre-3.6
+call(kwarg="hey")
+call(arg, kwarg="hey")
+call(arg, another, kwarg="hey", **kwargs)
+call(
+    this_is_a_very_long_variable_which_will_force_a_delimiter_split,
+    arg,
+    another,
+    kwarg="hey",
+    **kwargs
+)  # note: no trailing comma pre-3.6
call(*gidgets[:2])
call(a, *gidgets[:2])
call(**self.screen_kwargs)
call(b, **self.screen_kwargs)
lukasz.langa.pl
call.me(maybe)
-1 .real
-1.0 .real
+(1).real
+(1.0).real
....__class__
list[str]
dict[str, int]
tuple[str, ...]
-tuple[
-    str, int, float, dict[str, int]
-]
-tuple[str, int, float, dict[str, int],]
+tuple[str, int, float, dict[str, int]]
+tuple[str, int, float, dict[str, int]]
very_long_variable_name_filters: t.List[
    t.Tuple[str, t.Union[str, t.List[t.Optional[str]]]],
]
xxxx_xxxxx_xxxx_xxx: Callable[..., List[SomeClass]] = classmethod(  # type: ignore
    sync(async_xxxx_xxx_xxxx_xxxxx_xxxx_xxx.__func__)
)
xxxx_xxx_xxxx_xxxxx_xxxx_xxx:
 Callable[..., List[SomeClass]] = classmethod(  # type: ignore
    sync(async_xxxx_xxx_xxxx_xxxxx_xxxx_xxx.__func__)
)
-xxxx_xxx_xxxx_xxxxx_xxxx_xxx: Callable[
-    ..., List[SomeClass]
-] = classmethod(sync(async_xxxx_xxx_xxxx_xxxxx_xxxx_xxx.__func__))  # type: ignore
+xxxx_xxx_xxxx_xxxxx_xxxx_xxx: Callable[..., List[SomeClass]] = classmethod(
+    sync(async_xxxx_xxx_xxxx_xxxxx_xxxx_xxx.__func__)
```

```
+)  # type: ignore
slice[0]
slice[0:1]
slice[0:1:2]
slice[:]
slice[:-1]
@@ -137,118 +156,197 @@
numpy[-(c + 1) :, d]
numpy[:, l[-2]]
numpy[:, ::-1]
numpy[np.newaxis, :]
(str or None) if (sys.version_info[0] > (3,)) else (str or bytes or None)
-{'2.7': dead, '3.7': long_live or die_hard}
-{'2.7', '3.6', '3.7', '3.8', '3.9', '4.0' if gilectomy else '3.10'}
+{"2.7": dead, "3.7": long_live or die_hard}
+{"2.7", "3.6", "3.7", "3.8", "3.9", "4.0" if gilectomy else "3.10"}
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10 or A, 11 or B, 12 or C]
(SomeName)
SomeName
(Good, Bad,
 Ugly)
(i for i in (1, 2, 3))
-((i ** 2) for i in (1, 2, 3))
-((i ** 2) for i, _ in ((1, 'a'), (2, 'b'), (3, 'c')))
-(((i ** 2) + j) for i in (1, 2, 3) for j in (1, 2, 3))
+((i**2) for i in (1, 2, 3))
+((i**2) for i, _ in ((1, "a"), (2, "b"), (3, "c")))
+(((i**2) + j) for i in (1, 2, 3) for j in (1, 2, 3))
(*starred,)
-{"id": "1","type": "type","started_at": now(),"ended_at": now() + timedelta(days=10),"priority":
1,"import_session_id": 1,**kwargs}
+{
+    "id": "1",
+    "type": "type",
+    "started_at": now(),
+    "ended_at": now() + timedelta(days=10),
+    "priority": 1,
+    "import_session_id": 1,
+    **kwargs,
+}
a = (1,)
-b = 1,
+b = (1,)
c = 1
d = (1,) + a + (2,)
e = (1,).count(1)
f = 1, *range(10)
g = 1, *"ten"
```

```
-what_is_up_with_those_new_coord_names = (coord_names + set(vars_to_create)) + set(vars_to_remove)
-what_is_up_with_those_new_coord_names = (coord_names | set(vars_to_create)) - set(vars_to_remove)
-result = session.query(models.Customer.id).filter(models.Customer.account_id
 == account_id, models.Customer.email == email_address).order_by(models.Customer.id.asc()).all()
-result = session.query(models.Customer.id).filter(models.Customer.account_id == account_id,
models.Customer.email == email_address).order_by(models.Customer.id.asc(),).all()
+what_is_up_with_those_new_coord_names = (coord_names + set(vars_to_create)) + set(
+    vars_to_remove
+)
+what_is_up_with_those_new_coord_names = (coord_names | set(vars_to_create)) - set(
+    vars_to_remove
+)
+result = (
+    session.query(models.Customer.id)
+    .filter(
+        models.Customer.account_id == account_id, models.Customer.email == email_address
+    )
+    .order_by(models.Customer.id.asc())
+    .all()
+)
+result = (
+    session.query(models.Customer.id)
+    .filter(
+        models.Customer.account_id == account_id, models.Customer.email == email_address
+    )
+    .order_by(models.Customer.id.asc())
+    .all()
+)
 = set()
authors.ukasz.say_thanks()
mapping = {
    A: 0.25
 * (10.0 / 12),
    B: 0.1 * (10.0 / 12),
    C: 0.1 * (10.0 / 12),
    D: 0.1 * (10.0 / 12),
}

+
def gen():
    yield from outside_of_generator
-    a = (yield)
-    b = ((yield))
-    c = (((yield)))
+    a = yield
+    b = yield
+    c = yield
+
```

```
async def f():
    await some.complicated[0].call(with_args=(True or (1 is not 1)))
-print(* [] or [1])
+
+
+print(*[] or [1])
print(**{1: 3} if False else {x: x for x in range(3)})
-print(* lambda x: x)
-assert(not Test),("Short message")
-assert this is ComplexTest and not requirements.fit_in_a_single_line(force=False), "Short message"
-assert(((parens is TooMany)))
-for x, in (1,), (2,), (3,): ...
-for y in (): ...
-for z in (i for i in (1, 2, 3)): ...
-for i in (call()): ...
-for j in (1 + (2 + 3)): ...
-while(this and that): ...
-for addr_family, addr_type, addr_proto, addr_canonname, addr_sockaddr in socket.getaddrinfo('google.com',
'http'):
+print(*lambda x: x)
+assert not Test, "Short message"
+assert this is ComplexTest
 and not requirements.fit_in_a_single_line(
+    force=False
+), "Short message"
+assert parens is TooMany
+for (x,) in (1,), (2,), (3,):
+    ...
+for y in ():
+    ...
+for z in (i for i in (1, 2, 3)):
+    ...
+for i in call():
+    ...
+for j in 1 + (2 + 3):
+    ...
+while this and that:
+    ...
+for (
+    addr_family,
+    addr_type,
+    addr_proto,
+    addr_canonname,
+    addr_sockaddr,
+) in socket.getaddrinfo("google.com", "http"):
    pass
-a = aaaa.bbbb.cccc.dddd.eeee.ffff.gggg.hhhh.iiii.jjjj.kkkk.llll.mmmm.nnnn.oooo.pppp in
```

```
qqqq.rrrr.ssss.tttt.uuuu.vvvv.xxxx.yyyy.zzzz
-a = aaaa.bbbb.cccc.dddd.eeee.ffff.gggg.hhhh.iiii.jjjj.kkkk.llll.mmmm.nnnn.oooo.pppp not in
qqqq.rrrr.ssss.tttt.uuuu.vvvv.xxxx.yyyy.zzzz
-a = aaaa.bbbb.cccc.dddd.eeee.ffff.gggg.hhhh.iiii.jjjj.kkkk.llll.mmmm.nnnn.oooo.pppp is
qqqq.rrrr.ssss.tttt.uuuu.vvvv.xxxx.yyyy.zzzz
-a = aaaa.bbbb.cccc.dddd.eeee.ffff.gggg.hhhh.iiii.jjjj.kkkk.llll.mmmm.nnnn.oooo.pppp is not
qqqq.rrrr.ssss.tttt.uuuu.vvvv.xxxx.yyyy.zzzz
-if
 (
-    threading.current_thread() != threading.main_thread() and
-    threading.current_thread() != threading.main_thread() or
-    signal.getsignal(signal.SIGINT) != signal.default_int_handler
-):
-    return True
-if (
-    aaaa
```

```
-):
-    return True
-if (
-    ~ aaaaaaaa.a + aaaaaaaa.b - aaaaaaaa.c @ aaaaaaaa.d / aaaaaaaa.e | aaaaaaaa.f & aaaaaaaa.g % aaaaaaaa.h ^
aaaaaaaa.i << aaaaaaaa.k >> aaaaaaaa.l ** aaaaaaaa.m // aaaaaaaa.n
-):
-    return True
-if (
-    ~ aaaaaaaaaaaaaaaa.a + aaaaaaaaaaaaaaaa.b - aaaaaaaaaaaaaaaa.c * aaaaaaaaaaaaaaaa.d @ aaaaaaaaaaaaaaaa.e |
aaaaaaaaaaaaaaaa.f & aaaaaaaaaaaaaaaa.g % aaaaaaaaaaaaaaaa.h ^ aaaaaaaaaaaaaaaa.i << aaaaaaaaaaaaaaaa.k >>
aaaaaaaaaaaaaaaa.l ** aaaaaaaaaaaaaaaa.m // aaaaaaaaaaaaaaaa.n
-):
-    return True
-aaaaaaaaaaaaaaaa + aaaaaaaaaaaaaaaa - aaaaaaaaaaaaaaaa * (aaaaaaaaaaaaaaaa + aaaaaaaaaaaaaaaa) /
(aaaaaaaaaaaaaaaa
 + aaaaaaaaaaaaaaaa + aaaaaaaaaaaaaaaa)
+a = (
+    aaaa.bbbb.cccc.dddd.eeee.ffff.gggg.hhhh.iiii.jjjj.kkkk.llll.mmmm.nnnn.oooo.pppp
+    in qqqq.rrrr.ssss.tttt.uuuu.vvvv.xxxx.yyyy.zzzz
+)
+a = (
+    aaaa.bbbb.cccc.dddd.eeee.ffff.gggg.hhhh.iiii.jjjj.kkkk.llll.mmmm.nnnn.oooo.pppp
+    not in qqqq.rrrr.ssss.tttt.uuuu.vvvv.xxxx.yyyy.zzzz
+)
+a = (
+    aaaa.bbbb.cccc.dddd.eeee.ffff.gggg.hhhh.iiii.jjjj.kkkk.llll.mmmm.nnnn.oooo.pppp
+    is qqqq.rrrr.ssss.tttt.uuuu.vvvv.xxxx.yyyy.zzzz
+)
+a = (
+    aaaa.bbbb.cccc.dddd.eeee.ffff.gggg.hhhh.iiii.jjjj.kkkk.llll.mmmm.nnnn.oooo.pppp
+    is not qqqq.rrrr.ssss.tttt.uuuu.vvvv.xxxx.yyyy.zzzz
+)
+if (
+    threading.current_thread() != threading.main_thread()
+    and threading.current_thread() != threading.main_thread()
+    or signal.getsignal(signal.SIGINT) != signal.default_int_handler
+):
+    return True
+if (
+    aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
+    | aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
+):
+
    return True
+if (
+    aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
+    & aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
+):
```

```
+    return True
+if (
+    aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
+    + aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
+):
+    return True
+if (
+    aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
+    - aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
+):
+    return True
+if (
+    aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
+    * aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
+):
+    return True
+if (
+    aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
+    / aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
+):
+    return True
+if (
+    ~aaaa.a + aaaa.b - aaaa.c * aaaa.d / aaaa.e
+    | aaaa.f & aaaa.g % aaaa.h ^ aaaa.i << aaaa.k >> aaaa.l**aaaa.m // aaaa.n
+):
+
    return True
+if (
+    ~aaaaaaaa.a + aaaaaaaa.b - aaaaaaaa.c @ aaaaaaaa.d / aaaaaaaa.e
+    | aaaaaaaa.f & aaaaaaaa.g % aaaaaaaa.h
+    ^ aaaaaaaa.i << aaaaaaaa.k >> aaaaaaaa.l**aaaaaaaa.m // aaaaaaaa.n
+):
+    return True
+if (
+    ~aaaaaaaaaaaaaaaa.a
+    + aaaaaaaaaaaaaaaa.b
+    - aaaaaaaaaaaaaaaa.c * aaaaaaaaaaaaaaaa.d @ aaaaaaaaaaaaaaaa.e
+    | aaaaaaaaaaaaaaaa.f & aaaaaaaaaaaaaaaa.g % aaaaaaaaaaaaaaaa.h
+    ^ aaaaaaaaaaaaaaaa.i
+    << aaaaaaaaaaaaaaaa.k
+    >> aaaaaaaaaaaaaaaa.l**aaaaaaaaaaaaaaaa.m // aaaaaaaaaaaaaaaa.n
+):
+    return True
+(
+    aaaaaaaaaaaaaaaa
+    + aaaaaaaaaaaaaaaa
+    - aaaaaaaaaaaaaaaa
+    * (aaaaaaaaaaaaaaaa + aaaaaaaaaaaaaaaa)
```

```
+    / (aaaaaaaaaaaaaaaa + aaaaaaaaaaaaaaaa + aaaaaaaaaaaaaaaa)
+)
aaaaaaaaaaaaaaaa + aaaaaaaaaaaaaaaa
-aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa >>
aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa <<
aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
+(
+    aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
+
    >> aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
+    << aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
+)
bbbb >> bbbb * bbbb
-aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa ^bbbb.a &
aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa^aaaaaaaaaaaaaaaaaaaa
```

	Baseline revision	Target revision
On PRs	latest commit on `main`	PR commit with `main` merged
On pushes (main only)	latest PyPI version	the pushed commit

For pushes to main, there's only one analysis job named `preview-changes` where the preview style is used for all projects.

For PRs they get one more analysis job: `assert-no-changes`. It's similar to `preview-changes` but runs with the stable code style. It will fail if changes were made. This makes sure code won't be reformatted again and again within the same year in accordance to Black's stability policy.

Additionally for PRs, a PR comment will be posted embedding a summary of the preview changes and links to further information. If there's a pre-existing diff-shades comment, it'll
be updated instead the next time the workflow is triggered on the same PR.

```{note}
The `preview-changes` job will only fail intentionally if while analyzing a file failed to format. Otherwise a failure indicates a bug in the workflow.
```

The workflow uploads several artifacts upon completion:

- The raw analyses (.json)
- HTML diffs (.html)
- `.pr-comment.json` (if triggered by a PR)

The last one is downloaded by the `diff-shades-comment` workflow and shouldn't be downloaded locally. The HTML diffs come in handy for push-based where there's no PR to post a comment. And the analyses exist just in case you want to do further analysis using the collected data locally.

[diff-shades]: https://github.com/ichard26/diff-shades#readme
Empty configuration file; used in tests to avoid interference from Black's own config.
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A grammar to describe tree matching patterns.
Not shown here:
- 'TOKEN' stands for any token (leaf node)
- 'any' stands for any node (leaf or interior)
With 'any' we can still specify the sub-structure.

The start symbol is 'Matcher'.

Matcher: Alternatives ENDMARKER

```
Alternatives: Alternative ('|' Alternative)*

Alternative: (Unit | NegatedUnit)+

Unit: [NAME '='] ( STRING [Repeater]
            | NAME [Details] [Repeater]
            | '(' Alternatives ')' [Repeater]
            | '[' Alternatives ']'
  )

NegatedUnit: 'not' (STRING | NAME [Details] | '(' Alternatives ')')

Repeater: '*' | '+' | '{' NUMBER [',' NUMBER] '}'

Details: '<' Alternatives '>'
# Grammar for 2to3. This grammar supports Python 2.x and 3.x.

# NOTE WELL: You should also follow all the steps listed at
# https://devguide.python.org/grammar/

# Start symbols for the grammar:
# file_input is a module or sequence of commands read from an input file;
# single_input is a single interactive statement;
# eval_input is the input for the eval() and input() functions.
# NB: compound_stmt in single_input is followed by extra NEWLINE!
file_input: (NEWLINE | stmt)* ENDMARKER
single_input: NEWLINE | simple_stmt | compound_stmt NEWLINE
eval_input: testlist NEWLINE* ENDMARKER

typevar: NAME [':' expr] ['=' expr]
paramspec: '**' NAME ['=' expr]
typevartuple: '*' NAME ['=' (expr|star_expr)]
typeparam: typevar | paramspec | typevartuple
typeparams: '[' typeparam (',' typeparam)* [','] ']'

decorator: '@' namedexpr_test NEWLINE
decorators: decorator+
decorated: decorators (classdef | funcdef | async_funcdef)
async_funcdef: ASYNC funcdef
funcdef: 'def' NAME [typeparams] parameters ['->'
 test] ':' suite
parameters: '(' [typedargslist] ')'

# The following definition for typedarglist is equivalent to this set of rules:
#
#     arguments = argument (',' argument)*
#     argument = tfpdef ['=' test]
```

```
#     kwargs = '**' tname [',']
#     args = '*' [tname_star]
#     kwonly_kwargs = (',' argument)* [',' [kwargs]]
#     args_kwonly_kwargs = args kwonly_kwargs | kwargs
#     poskeyword_args_kwonly_kwargs = arguments [',' [args_kwonly_kwargs]]
#     typedargslist_no_posonly  = poskeyword_args_kwonly_kwargs | args_kwonly_kwargs
#     typedarglist = arguments ',' '/' [',' [typedargslist_no_posonly]])|(typedargslist_no_posonly)"
#
# It needs to be fully expanded to allow our LL(1) parser to work on it.

typedargslist: tfpdef ['=' test] (',' tfpdef ['=' test])* ',' '/' [
                ',' [((tfpdef ['=' test] ',')* ('*' [tname_star] (',' tname ['=' test])*
                      [',' ['**' tname [',']]] | '**' tname [','])
                | tfpdef ['=' test] (','
 tfpdef ['=' test])* [','])]
            ] | ((tfpdef ['=' test] ',')* ('*' [tname_star] (',' tname ['=' test])*
                [',' ['**' tname [',']]] | '**' tname [','])
                | tfpdef ['=' test] (',' tfpdef ['=' test])* [','])

tname: NAME [':' test]
tname_star: NAME [':' (test|star_expr)]
tfpdef: tname | '(' tfplist ')'
tfplist: tfpdef (',' tfpdef)* [',']

# The following definition for varargslist is equivalent to this set of rules:
#
#     arguments = argument (',' argument )*
#     argument = vfpdef ['=' test]
#     kwargs = '**' vname [',']
#     args = '*' [vname]
#     kwonly_kwargs = (',' argument )* [',' [kwargs]]
#     args_kwonly_kwargs = args kwonly_kwargs | kwargs
#     poskeyword_args_kwonly_kwargs = arguments [',' [args_kwonly_kwargs]]
#     vararglist_no_posonly = poskeyword_args_kwonly_kwargs | args_kwonly_kwargs
#     varargslist = arguments ',' '/' [','[(vararglist_no_posonly)]] | (vararglist_no_posonly)
#
# It needs to be fully expanded
 to allow our LL(1) parser to work on it.

varargslist: vfpdef ['=' test ](',' vfpdef ['=' test])* ',' '/' [',' [
                ((vfpdef ['=' test] ',')* ('*' [vname] (',' vname ['=' test])*
                      [',' ['**' vname [',']]] | '**' vname [','])
                      | vfpdef ['=' test] (',' vfpdef ['=' test])* [','])
                ]] | ((vfpdef ['=' test] ',')*
                ('*' [vname] (',' vname ['=' test])*  [',' ['**' vname [',']]]| '**' vname [','])
                | vfpdef ['=' test] (',' vfpdef ['=' test])* [','])

vname: NAME
```

```
vfpdef: vname | '(' vfplist ')'
vfplist: vfpdef (',' vfpdef)* [',']

stmt: simple_stmt | compound_stmt
simple_stmt: small_stmt (';' small_stmt)* [';'] NEWLINE
small_stmt: (type_stmt | expr_stmt | del_stmt | pass_stmt | flow_stmt |
            import_stmt | global_stmt | assert_stmt)
expr_stmt: testlist_star_expr (annassign | augassign (yield_expr|testlist) |
                    ('=' (yield_expr|testlist_star_expr))*)
annassign:
 ':' test ['=' (yield_expr|testlist_star_expr)]
testlist_star_expr: (test|star_expr) (',' (test|star_expr))* [',']
augassign: ('+=' | '-=' | '*=' | '@=' | '/=' | '%=' | '&=' | '|=' | '^=' |
           '<<=' | '>>=' | '**=' | '//=')
# For normal and annotated assignments, additional restrictions enforced by the interpreter
del_stmt: 'del' exprlist
pass_stmt: 'pass'
flow_stmt: break_stmt | continue_stmt | return_stmt | raise_stmt | yield_stmt
break_stmt: 'break'
continue_stmt: 'continue'
return_stmt: 'return' [testlist_star_expr]
yield_stmt: yield_expr
raise_stmt: 'raise' [test ['from' test | ',' test [',' test]]]
import_stmt: import_name | import_from
import_name: 'import' dotted_as_names
import_from: ('from' ('.'* dotted_name | '.'+)
             'import' ('*' | '(' import_as_names ')' | import_as_names))
import_as_name: NAME ['as' NAME]
dotted_as_name: dotted_name ['as' NAME]
import_as_names: import_as_name (',' import_as_name)* [',']
dotted_as_names: dotted_as_name
 (',' dotted_as_name)*
dotted_name: NAME ('.' NAME)*
global_stmt: ('global' | 'nonlocal') NAME (',' NAME)*
assert_stmt: 'assert' test [',' test]
type_stmt: "type" NAME [typeparams] '=' test

compound_stmt: if_stmt | while_stmt | for_stmt | try_stmt | with_stmt | funcdef | classdef | decorated | async_stmt |
match_stmt
async_stmt: ASYNC (funcdef | with_stmt | for_stmt)
if_stmt: 'if' namedexpr_test ':' suite ('elif' namedexpr_test ':' suite)* ['else' ':' suite]
while_stmt: 'while' namedexpr_test ':' suite ['else' ':' suite]
for_stmt: 'for' exprlist 'in' testlist_star_expr ':' suite ['else' ':' suite]
try_stmt: ('try' ':' suite
          ((except_clause ':' suite)+
     ['else' ':' suite]
     ['finally' ':' suite] |
    'finally' ':' suite))
```

```
with_stmt: 'with' asexpr_test (',' asexpr_test)*  ':' suite

# NB compile.c makes sure that the default except clause is last
except_clause: 'except' ['*'] [test [(',' | 'as') test]]
suite: simple_stmt | NEWLINE INDENT stmt+ DEDENT

# Backward
 compatibility cruft to support:
# [ x for x in lambda: True, lambda: False if x() ]
# even while also allowing:
# lambda x: 5 if x else 2
# (But not a mix of the two)
testlist_safe: old_test [(',' old_test)+ [',']]
old_test: or_test | old_lambdef
old_lambdef: 'lambda' [varargslist] ':' old_test

namedexpr_test: asexpr_test [':=' asexpr_test]

# This is actually not a real rule, though since the parser is very
# limited in terms of the strategy about match/case rules, we are inserting
# a virtual case (<expr> as <expr>) as a valid expression. Unless a better
# approach is thought, the only side effect of this seem to be just allowing
# more stuff to be parser (which would fail on the ast).
asexpr_test: test ['as' test]

test: or_test ['if' or_test 'else' test] | lambdef
or_test: and_test ('or' and_test)*
and_test: not_test ('and' not_test)*
not_test: 'not' not_test | comparison
comparison: expr (comp_op expr)*
comp_op: '<'|'>'|'=='|'>='|'<='|'<>'|'!='|'in'|'not' 'in'|'is'|'is' 'not'
star_expr:
 '*' expr
expr: xor_expr ('|' xor_expr)*
xor_expr: and_expr ('^' and_expr)*
and_expr: shift_expr ('&' shift_expr)*
shift_expr: arith_expr (('<<'|'>>') arith_expr)*
arith_expr: term (('+'|'-') term)*
term: factor (('*'|'@'|'/'|'%'|'//') factor)*
factor: ('+'|'-'|'~') factor | power
power: [AWAIT] atom trailer* ['**' factor]
atom: ('(' [yield_expr|testlist_gexp] ')' |
     '[' [listmaker] ']' |
     '{' [dictsetmaker] '}' |
     '`' testlist1 '`' |
     NAME | NUMBER | (STRING | fstring)+ | '.' '.' '.')
listmaker: (namedexpr_test|star_expr) ( old_comp_for | (',' (namedexpr_test|star_expr))* [','] )
testlist_gexp: (namedexpr_test|star_expr) ( old_comp_for | (',' (namedexpr_test|star_expr))* [','] )
```

```
lambdef: 'lambda' [varargslist] ':' test
trailer: '(' [arglist] ')' | '[' subscriptlist ']' | '.' NAME
subscriptlist: (subscript|star_expr) (',' (subscript|star_expr))* [',']
subscript: test [':=' test] | [test] ':' [test] [sliceop]
sliceop: ':' [test]
exprlist: (expr|star_expr)
 (',' (expr|star_expr))* [',']
testlist: test (',' test)* [',']
dictsetmaker: ( ((test ':' asexpr_test | '**' expr)
                (comp_for | (',' (test ':' asexpr_test | '**' expr))* [','])) |
               ((test [':=' test] | star_expr)
   (comp_for | (',' (test [':=' test] | star_expr))* [','])) )

classdef: 'class' NAME [typeparams] ['(' [arglist] ')'] ':' suite

arglist: argument (',' argument)* [',']

# "test '=' test" is really "keyword '=' test", but we have no such token.
# These need to be in a single rule to avoid grammar that is ambiguous
# to our LL(1) parser. Even though 'test' includes '*expr' in star_expr,
# we explicitly match '*' here, too, to give it proper precedence.
# Illegal combinations and orderings are blocked in ast.c:
# multiple (test comp_for) arguments are blocked; keyword unpackings
# that precede iterable unpackings are blocked; etc.
argument: ( test [comp_for] |
          test ':=' test [comp_for] |
          test 'as' test |
          test
 '=' asexpr_test |
    '**' test |
          '*' test )

comp_iter: comp_for | comp_if
comp_for: [ASYNC] 'for' exprlist 'in' or_test [comp_iter]
comp_if: 'if' old_test [comp_iter]

# As noted above, testlist_safe extends the syntax allowed in list
# comprehensions and generators. We can't use it indiscriminately in all
# derivations using a comp_for-like pattern because the testlist_safe derivation
# contains comma which clashes with trailing comma in arglist.
#
# This was an issue because the parser would not follow the correct derivation
# when parsing syntactically valid Python code. Since testlist_safe was created
# specifically to handle list comprehensions and generator expressions enclosed
# with parentheses, it's safe to only use it in those. That avoids the issue; we
# can parse code like set(x for x in [],).
#
# The syntax supported by this set of rules is not a valid Python 3 syntax,
```

```
# hence the prefix "old".
#
# See https://bugs.python.org/issue27494
old_comp_iter: old_comp_for
 | old_comp_if
old_comp_for: [ASYNC] 'for' exprlist 'in' testlist_safe [old_comp_iter]
old_comp_if: 'if' old_test [old_comp_iter]

testlist1: test (',' test)*

# not used in grammar, but may appear in "node" passed from Parser to Compiler
encoding_decl: NAME

yield_expr: 'yield' [yield_arg]
yield_arg: 'from' test | testlist_star_expr


# 3.10 match statement definition

# PS: normally the grammar is much much more restricted, but
# at this moment for not trying to bother much with encoding the
# exact same DSL in a LL(1) parser, we will just accept an expression
# and let the ast.parse() step of the safe mode to reject invalid
# grammar.

# The reason why it is more restricted is that, patterns are some
# sort of a DSL (more advanced than our LHS on assignments, but
# still in a very limited python subset). They are not really
# expressions, but who cares. If we can parse them, that is enough
# to reformat them.

match_stmt: "match" subject_expr ':' NEWLINE INDENT case_block+
 DEDENT

# This is more permissive than the actual version. For example it
# accepts `match *something:`, even though single-item starred expressions
# are forbidden.
subject_expr: (namedexpr_test|star_expr) (',' (namedexpr_test|star_expr))* [',']

# cases
case_block: "case" patterns [guard] ':' suite
guard: 'if' namedexpr_test
patterns: pattern (',' pattern)* [',']
pattern: (expr|star_expr) ['as' expr]

fstring: FSTRING_START fstring_middle* FSTRING_END
fstring_middle: fstring_replacement_field | FSTRING_MIDDLE
fstring_replacement_field: '{' (yield_expr | testlist_star_expr) ['='] [ "!" NAME ] [ ':' fstring_format_spec* ] '}'
```

```
fstring_format_spec: FSTRING_MIDDLE | fstring_replacement_field
version: 2

formats:
 - htmlzip

build:
 os: ubuntu-22.04
 tools:
   python: "3.11"

python:
 install:
   - requirements: docs/requirements.txt

   - method: pip
     path: .
     extra_requirements:
       - d

sphinx:
 configuration: docs/conf.py
```
Frequently Asked Questions

The most common questions and issues users face are aggregated to this FAQ.

```{contents}
:local:
:backlinks: none
:class: this-will-duplicate-information-and-it-is-still-useful-here
```

Why spaces? I prefer tabs

PEP 8 recommends spaces over tabs, and they are used by most of the Python community. _Black_ provides no options to configure the indentation style, and requests for such options will not be considered.

However, we recognise that using tabs is an accessibility issue as well. While the option will never be added to _Black_, visually impaired developers may find conversion tools such as `expand/unexpand` (for Linux) useful when contributing to Python projects. A workflow might consist of e.g. setting up appropriate pre-commit and post-merge git hooks, and scripting `unexpand` to run after applying _Black_.

Does Black have an API?

Not yet. _Black_ is fundamentally a command line tool. Many [integrations](/integrations/index.md) are provided,

but a Python interface is not one
of them. A simple API is being [planned](https://github.com/psf/black/issues/779)
though.

Is Black safe to use?

Yes. _Black_ is strictly about formatting, nothing else. Black strives to ensure that
after formatting the AST is
[checked](the_black_code_style/current_style.md#ast-before-and-after-formatting) with
limited special cases where the code is allowed to differ. If issues are found, an error
is raised and the file is left untouched. Magical comments that influence linters and
other tools, such as `# noqa`, may be moved by _Black_. See below for more details.

How stable is Black's style?

Stable. _Black_ aims to enforce one style and one style only, with some room for
pragmatism. See [The Black Code Style](the_black_code_style/index.md) for more details.

Starting in 2022, the formatting output is stable for the releases made in the same year
(other than unintentional bugs). At the beginning of every year, the first release will
make
changes to the stable style. It is possible to opt in to the latest formatting
styles using the `--preview` flag.

Why is my file not formatted?

Most likely because it is ignored in `.gitignore` or excluded with configuration. See
[file collection and discovery](usage_and_configuration/file_collection_and_discovery.md)
for details.

Why is my Jupyter Notebook cell not formatted?

Black is timid about formatting Jupyter Notebooks. Cells containing any of the
following will not be formatted:

- automagics (e.g. `pip install black`)
- non-Python cell magics (e.g. `%%writefile`). These can be added with the flag
 `--python-cell-magics`, e.g. `black --python-cell-magics writefile hello.ipynb`.
- multiline magics, e.g.:

 ```python
 %timeit f(1, \
        2, \
        3)
 ```

- code which `IPython`'s `TransformerManager` would transform magics into, e.g.:

```python
get_ipython().system('ls')
```

- invalid syntax, as it can't be safely distinguished from automagics in the absence of a running `IPython` kernel.

Why does Flake8 report warnings?

Some of Flake8's rules conflict with Black's style. We recommend disabling these rules. See [Using _Black_ with other tools](labels/why-pycodestyle-warnings).

Which Python versions does Black support?

Black generally supports all Python versions supported by CPython (see [the Python devguide](https://devguide.python.org/versions/) for current information). We promise to support at least all Python versions that have not reached their end of life. This is the case for both running _Black_ and formatting code.

Support for formatting Python 2 code was removed in version 22.0. While we've made no plans to stop supporting older Python 3 minor versions immediately, their support might also be removed some time in the future without a deprecation period.

Runtime support for 3.6 was removed in version 22.10.0, for 3.7 in version 23.7.0, and for 3.8 in version 24.10.0.

Why does my linter or typechecker complain after I format my code?

Some linters and other tools use magical comments (e.g., `# noqa`, `# type: ignore`) to influence their behavior. While Black does its best to recognize such comments and leave them in the right place, this detection is not and cannot be perfect. Therefore, you'll sometimes have to manually move these comments to the right place after you format your codebase with _Black_.

Can I run Black with PyPy?

Yes, there is support for PyPy 3.8 and higher.

Why does Black not detect syntax errors in my code?

Black is an autoformatter, not a Python linter or interpreter. Detecting all syntax errors is not a goal. It can format all code accepted by CPython (if you find an example where that doesn't hold, please report a bug!), but it may also format some code that CPython doesn't accept.

(labels/mypyc-support)=

What is `compiled: yes/no` all about in the version output?

While _Black_ is indeed a pure Python project, we use [mypyc] to compile _Black_
 into a
C Python extension, usually doubling performance. These compiled wheels are available
for 64-bit versions of Windows, Linux (via the manylinux standard), and macOS across all
supported CPython versions.

Platforms including musl-based and/or ARM Linux distributions, and ARM Windows are
currently **not** supported. These platforms will fall back to the slower pure Python
wheel available on PyPI.

If you are experiencing exceptionally weird issues or even segfaults, you can try
passing `--no-binary black` to your pip install invocation. This flag excludes all
wheels (including the pure Python wheel), so this command will use the [sdist].

[mypyc]: https://mypyc.readthedocs.io/en/latest/
[sdist]:
 https://packaging.python.org/en/latest/glossary/#term-Source-Distribution-or-sdist
Example configuration for Black.

NOTE: you have to use single-quoted strings in TOML for regular expressions.
It's the equivalent of r-strings in Python. Multiline strings are treated as
verbose regular expressions by Black. Use [ ] to denote a significant space
character.

[tool.black]
line-length = 88
target-version = ['py39']
include = '\.pyi?$'
extend-exclude = '''
/(
 # The following are specific to Black, you probably don't want those.
 tests/data/
 | profiling/
 | scripts/generate_schema.py # Uses match syntax
)
'''
# We use the unstable style for formatting Black itself. If you
# want bug-free formatting, you should keep this off. If you want
# stable formatting across releases, you should also keep `preview = true`
# (which is implied by this flag) off.
unstable = true

Build system information and other project-specific configuration below.
NOTE: You don't need this in your own Black configuration.

```
[build-system]
requires = ["hatchling>=1.20.0", "hatch-vcs",
 "hatch-fancy-pypi-readme"]
build-backend = "hatchling.build"

[project]
name = "black"
description = "The uncompromising code formatter."
license = "MIT"
requires-python = ">=3.9"
authors = [
 { name = "ukasz Langa", email = "lukasz@langa.pl" },
]
keywords = [
 "automation",
 "autopep8",
 "formatter",
 "gofmt",
 "pyfmt",
 "rustfmt",
 "yapf",
]
classifiers = [
 "Development Status :: 5 - Production/Stable",
 "Environment :: Console",
 "Intended Audience :: Developers",
 "License :: OSI Approved :: MIT License",
 "Operating System :: OS Independent",
 "Programming Language :: Python",
 "Programming Language :: Python :: 3 :: Only",
 "Programming Language :: Python :: 3.9",
 "Programming Language :: Python :: 3.10",
 "Programming Language :: Python :: 3.11",
 "Programming Language :: Python :: 3.12",
 "Programming Language :: Python :: 3.13",
 "Topic :: Software Development :: Libraries :: Python Modules",
 "Topic :: Software Development :: Quality Assurance",
]
dependencies
 = [
 "click>=8.0.0",
 "mypy_extensions>=0.4.3",
 "packaging>=22.0",
 "pathspec>=0.9.0",
 "platformdirs>=2",
 "tomli>=1.1.0; python_version < '3.11'",
 "typing_extensions>=4.0.1; python_version < '3.11'",
]
```

```
dynamic = ["readme", "version"]

[project.optional-dependencies]
colorama = ["colorama>=0.4.3"]
uvloop = ["uvloop>=0.15.2"]
d = ["aiohttp>=3.10"]
jupyter = [
 "ipython>=7.8.0",
 "tokenize-rt>=3.2.0",
]

[project.scripts]
black = "black:patched_main"
blackd = "blackd:patched_main [d]"

[project.entry-points."validate_pyproject.tool_schema"]
black = "black.schema:get_schema"

[project.urls]
Documentation = "https://black.readthedocs.io/"
Changelog = "https://github.com/psf/black/blob/main/CHANGES.md"
Repository = "https://github.com/psf/black"
Issues = "https://github.com/psf/black/issues"

[tool.hatch.metadata.hooks.fancy-pypi-readme]
content-type = "text/markdown"
fragments = [
 { path = "README.md" },
 { path = "CHANGES.md" },
]

[tool.hatch.version]
source
 = "vcs"

[tool.hatch.build.hooks.vcs]
version-file = "src/_black_version.py"
template = '''
version = "{version}"
'''

[tool.hatch.build.targets.sdist]
exclude = ["/profiling"]

[tool.hatch.build.targets.wheel]
only-include = ["src"]
sources = ["src"]
# Note that we change the behaviour of this flag below
```

```
macos-max-compat = true

[tool.hatch.build.targets.wheel.hooks.mypyc]
enable-by-default = false
dependencies = [
 "hatch-mypyc>=0.16.0",
 "mypy>=1.12",
 "click>=8.1.7",
]
require-runtime-dependencies = true
exclude = [
 # There's no good reason for blackd to be compiled.
 "/src/blackd",
 # Not performance sensitive, so save bytes + compilation time:
 "/src/blib2to3/__init__.py",
 "/src/blib2to3/pgen2/__init__.py",
 "/src/black/output.py",
 "/src/black/concurrency.py",
 "/src/black/files.py",
 "/src/black/report.py",
 # Breaks the test suite when compiled (and is also useless):
 "/src/black/debug.py",
 # Compiled modules can't be run directly and that's a problem here:
  "/src/black/__main__.py",
]
mypy-args = ["--ignore-missing-imports"]
options = { debug_level = "0" }

[tool.cibuildwheel]
build-verbosity = 1

# So these are the environments we target:
# - Python: CPython 3.9+ only
# - Architecture (64-bit only): amd64 / x86_64, universal2, and arm64
# - OS: Linux (no musl), Windows, and macOS
build = "cp3*"
skip = ["*-manylinux_i686", "*-musllinux_*", "*-win32", "pp*"]

# This is the bare minimum needed to run the test suite. Pulling in the full
# test_requirements.txt would download a bunch of other packages not necessary
# here and would slow down the testing step a fair bit.
test-requires = ["pytest>=6.1.1"]
test-command = 'pytest {project} -k "not incompatible_with_mypyc"'
test-extras = ["d"," jupyter"]
# Skip trying to test arm64 builds on Intel Macs. (so cross-compilation doesn't
# straight up crash)
test-skip = ["*-macosx_arm64", "*-macosx_universal2:arm64"]
```

```
[tool.cibuildwheel.environment]
HATCH_BUILD_HOOKS_ENABLE = "1"
MYPYC_OPT_LEVEL = "3"
MYPYC_DEBUG_LEVEL
 = "0"

[tool.cibuildwheel.linux]
manylinux-x86_64-image = "manylinux_2_28"
before-build = [
   "yum install -y clang gcc",
]

[tool.cibuildwheel.linux.environment]
HATCH_BUILD_HOOKS_ENABLE = "1"
MYPYC_OPT_LEVEL = "3"
MYPYC_DEBUG_LEVEL = "0"

# Black needs Clang to compile successfully on Linux.
CC = "clang"

[tool.cibuildwheel.macos]
build-frontend = { name = "build", args = ["--no-isolation"] }
# Unfortunately, hatch doesn't respect MACOSX_DEPLOYMENT_TARGET
# Note we don't have a good test for this sed horror, so if you futz with it
# make sure to test manually
before-build = [
   "python -m pip install 'hatchling==1.20.0' hatch-vcs hatch-fancy-pypi-readme 'hatch-mypyc>=0.16.0'
'mypy>=1.12' 'click>=8.1.7'",
   """sed -i '' -e "600,700s/'10_16'/os.environ['MACOSX_DEPLOYMENT_TARGET'].replace('.', '_')/" $(python -c
'import hatchling.builders.wheel as h; print(h.__file__)') """,
]

[tool.isort]
atomic = true
profile = "black"
line_length = 88
skip_gitignore = true
skip_glob
 = ["tests/data", "profiling"]
known_first_party = ["black", "blib2to3", "blackd", "_black_version"]

[tool.pytest.ini_options]
# Option below requires `tests/optional.py`
addopts = "--strict-config --strict-markers"
optional-tests = [
 "no_blackd: run when `d` extra NOT installed",
 "no_jupyter: run when `jupyter` extra NOT installed",
]
```

```
markers = [
 "incompatible_with_mypyc: run when testing mypyc compiled black"
]
xfail_strict = true
filterwarnings = ["error"]
[tool.coverage.report]
omit = [
 "src/blib2to3/*",
 "tests/data/*",
 "*/site-packages/*",
 ".tox/*"
]
[tool.coverage.run]
relative_files = true
branch = true

[tool.mypy]
# Specify the target platform details in config, so your developers are
# free to run mypy on Windows, Linux, or macOS and get consistent
# results.
python_version = "3.9"
mypy_path = "src"
strict = true
# Unreachable blocks have been an issue when compiling mypyc, let's try to avoid 'em in the first place.
warn_unreachable = true
implicit_reexport
 = true
show_error_codes = true
show_column_numbers = true

[[tool.mypy.overrides]]
module = ["pathspec.*", "IPython.*", "colorama.*", "tokenize_rt.*", "uvloop.*", "_black_version.*"]
ignore_missing_imports = true

# CI only checks src/, but in case users are running LSP or similar we explicitly ignore
# errors in test data files.
[[tool.mypy.overrides]]
module = ["tests.data.*"]
ignore_errors = true
FROM python:3.12-slim AS builder

RUN mkdir /src
COPY . /src/
ENV VIRTUAL_ENV=/opt/venv
ENV HATCH_BUILD_HOOKS_ENABLE=1
# Install build tools to compile black + dependencies
RUN apt update && apt install -y build-essential git python3-dev
RUN python -m venv $VIRTUAL_ENV
```

```
RUN python -m pip install --no-cache-dir hatch hatch-fancy-pypi-readme hatch-vcs
RUN . /opt/venv/bin/activate && pip install --no-cache-dir --upgrade pip setuptools \
   && cd /src && hatch build -t wheel \
   && pip install --no-cache-dir dist/*-cp* \
   && pip install black[colorama,d,uvloop]

FROM python:3.12-slim

# copy only Python packages to limit the image size
COPY --from=builder /opt/venv /opt/venv
ENV PATH="/opt/venv/bin:$PATH"

CMD ["/opt/venv/bin/black"]
```

foo

The _Black_ code style

Code style

Black aims for consistency, generality, readability and reducing git diffs. Similar language constructs are formatted with similar rules. Style configuration options are deliberately limited and rarely added. Previous formatting is taken into account as little as possible, with rare exceptions like the magic trailing comma. The coding style used by _Black_ can be viewed as a strict subset of PEP 8.

This document describes the current formatting style. If you're interested in trying out where the style is heading, see [future style](./future_style.md) and try running `black --preview`.

How _Black_ wraps lines

Black ignores previous formatting and applies uniform horizontal and vertical whitespace to your code. The rules for horizontal whitespace can be summarized as: do whatever makes `pycodestyle` happy.

As for vertical whitespace, _Black_ tries to render one full expression or simple statement per line. If this fits the allotted line
 length, great.

```py3
# in:

j = [1,
    2,
    3
]

# out:
```

```
j = [1, 2, 3]
```

If not, _Black_ will look at the contents of the first outer matching brackets and put that in a separate indented line.

```py3
# in:

ImportantClass.important_method(exc, limit, lookup_lines, capture_locals, extra_argument)

# out:

ImportantClass.important_method(
    exc, limit, lookup_lines, capture_locals, extra_argument
)
```

If that still doesn't fit the bill, it will decompose the internal expression further using the same rule, indenting matching brackets every time. If the contents of the matching brackets pair are comma-separated (like an argument list, or a dict literal, and so on) then _Black_ will first try to keep them on the same line with the matching brackets. If that doesn't work, it will put all of them in separate lines.

```py3
# in:

def very_important_function(template: str, *variables, file: os.PathLike, engine: str, header: bool = True, debug:
bool = False):
    """Applies `variables`
 to the `template` and writes to `file`."""
    with open(file, 'w') as f:
        ...

# out:

def very_important_function(
    template: str,
    *variables,
    file: os.PathLike,
    engine: str,
    header: bool = True,
    debug: bool = False,
):
    """Applies `variables` to the `template` and writes to `file`."""
    with open(file, "w") as f:
        ...
```

If a data structure literal (tuple, list, set, dict) or a line of "from" imports cannot
fit in the allotted length, it's always split into one element per line. This minimizes
diffs as well as enables readers of code to find which commit introduced a particular
entry. This also makes _Black_ compatible with
[isort](../guides/using_black_with_other_tools.md#isort) with the ready-made `black`
profile or manual configuration.

You might have noticed that closing brackets are always dedented and that a trailing
comma is always added. Such formatting produces smaller diffs; when you add or remove an
element, it's always
 just one line. Also, having the closing bracket dedented provides a
clear delimiter between two distinct sections of the code that otherwise share the same
indentation level (like the arguments list and the docstring in the example above).

(labels/why-no-backslashes)=

Black prefers parentheses over backslashes, and will remove backslashes if found.

```py3
# in:

if some_short_rule1 \
 and some_short_rule2:
     ...

# out:

if some_short_rule1 and some_short_rule2:
 ...


# in:

if some_long_rule1 \
 and some_long_rule2:
   ...

# out:

if (
   some_long_rule1
   and some_long_rule2
):
   ...

```

Backslashes and multiline strings are one of the two places in the Python grammar that break significant indentation. You never need backslashes, they are used to force the grammar to accept breaks that would otherwise be parse errors. That makes them confusing to look at and brittle to modify. This is why _Black_ always gets rid of them.

If you're reaching for backslashes,
 that's a clear signal that you can do better if you
slightly refactor your code. I hope some of the examples above show you that there are many ways in which you can do it.

(labels/line-length)=

Line length

You probably noticed the peculiar default line length. _Black_ defaults to 88 characters per line, which happens to be 10% over 80. This number was found to produce significantly shorter files than sticking with 80 (the most popular), or even 79 (used by the standard library). In general,
[90-ish seems like the wise choice](https://youtu.be/wf-BqAjZb8M?t=260).

If you're paid by the lines of code you write, you can pass `--line-length` with a lower number. _Black_ will try to respect that. However, sometimes it won't be able to without breaking other rules. In those rare cases, auto-formatted code will exceed your allotted limit.

You can also increase it, but remember that people with sight disabilities find it harder to work with line lengths exceeding 100 characters. It also
 adversely affects
side-by-side diff review on typical screen resolutions. Long lines also make it harder to present code neatly in documentation or talk slides.

Flake8 and other linters

See [Using _Black_ with other tools](../guides/using_black_with_other_tools.md) about linter compatibility.

Empty lines

Black avoids spurious vertical whitespace. This is in the spirit of PEP 8 which says that in-function vertical whitespace should only be used sparingly.

Black will allow single empty lines inside functions, and single and double empty lines on module level left by the original editors, except when they're within parenthesized expressions. Since such expressions are always reformatted to fit minimal space, this whitespace is lost.

```python
# in:
```

```
def function(
   some_argument: int,

   other_argument: int = 5,
) -> EmptyLineInParenWillBeDeleted:



   print("One empty line above me will be kept!")

def this_is_okay_too():
   print("No empty line here")
# out:

def
 function(
   some_argument: int,
   other_argument: int = 5,
) -> EmptyLineInParenWillBeDeleted:

   print("One empty line above me will be kept!")


def this_is_okay_too():
   print("No empty line here")
```

It will also insert proper spacing before and after function definitions. It's one line before and after inner functions and two lines before and after module-level functions and classes. _Black_ will not put empty lines between function/class definitions and standalone comments that immediately precede the given function/class.

Black will enforce single empty lines between a class-level docstring and the first following field or method. This conforms to [PEP 257](https://www.python.org/dev/peps/pep-0257/#multi-line-docstrings).

Black won't insert empty lines after function docstrings unless that empty line is required due to an inner function starting immediately after.

Comments

Black does not format comment contents, but it enforces two spaces between code and a comment on the same line, and a space before the comment text begins. Some types of comments that require specific spacing rules are respected: shebangs (`#! comment`), doc comments (`#: comment`), section comments with long runs of hashes, and Spyder cells. Non-breaking spaces after hashes are also preserved. Comments may sometimes be moved

because of formatting changes, which can break tools that assign special meaning to them. See [AST before and after formatting](#ast-before-and-after-formatting) for more discussion.

Trailing commas

Black will add trailing commas to expressions that are split by comma where each element is on its own line. This includes function signatures.

One exception to adding trailing commas is function signatures containing `*`, `*args`, or `**kwargs`. In this case a trailing comma is only safe to use on Python 3.6. _Black_ will detect if your file is already 3.6+ only and use trailing commas in this situation. If you wonder how it knows, it
 looks for f-strings and existing use of trailing commas
in function signatures that have stars in them. In other words, if you'd like a trailing comma in this situation and _Black_ didn't recognize it was safe to do so, put it there manually and _Black_ will keep it.

A pre-existing trailing comma informs _Black_ to always explode contents of the current bracket pair into one item per line. Read more about this in the [Pragmatism](#pragmatism) section below.

(labels/strings)=

Strings

Black prefers double quotes (`"` and `"""`) over single quotes (`'` and `'''`). It will replace the latter with the former as long as it does not result in more backslash escapes than before.

Black also standardizes string prefixes. Prefix characters are made lowercase with the exception of [capital "R" prefixes](#rstrings-and-rstrings), unicode literal markers (`u`) are removed because they are meaningless in Python 3, and in the case of multiple characters "r" is put first as in spoken language:
 "raw f-string".

Another area where Python allows multiple ways to format a string is escape sequences. For example, `"\uabcd"` and `"\uABCD"` evaluate to the same string. _Black_ normalizes such escape sequences to lowercase, but uses uppercase for `\N` named character escapes, such as `"\N{MEETEI MAYEK LETTER HUK}"`.

The main reason to standardize on a single form of quotes is aesthetics. Having one kind of quotes everywhere reduces reader distraction. It will also enable a future version of _Black_ to merge consecutive string literals that ended up on the same line (see [#26](https://github.com/psf/black/issues/26) for details).

Why settle on double quotes? They anticipate apostrophes in English text. They match the docstring standard described in

[PEP 257](https://www.python.org/dev/peps/pep-0257/#what-is-a-docstring). An empty
string in double quotes (`"""`) is impossible to confuse with a one double-quote
regardless of fonts and syntax highlighting used. On top of this, double
quotes for
strings are consistent with C which Python interacts a lot with.

On certain keyboard layouts like US English, typing single quotes is a bit easier than
double quotes. The latter requires use of the Shift key. My recommendation here is to
keep using whatever is faster to type and let _Black_ handle the transformation.

If you are adopting _Black_ in a large project with pre-existing string conventions
(like the popular
["single quotes for data, double quotes for human-readable strings"](https://stackoverflow.com/a/56190)),
you can pass `--skip-string-normalization` on the command line. This is meant as an
adoption helper, avoid using this for new projects.

Black also processes docstrings. Firstly the indentation of docstrings is corrected
for both quotations and the text within, although relative indentation in the text is
preserved. Superfluous trailing whitespace on each line and unnecessary new lines at the
end of the docstring are removed. All leading tabs are converted
to spaces, but tabs
inside text are preserved. Whitespace leading and trailing one-line docstrings is
removed.

Numeric literals

Black standardizes most numeric literals to use lowercase letters for the syntactic
parts and uppercase letters for the digits themselves: `0xAB` instead of `0XAB` and
`1e10` instead of `1E10`.

Line breaks & binary operators

Black will break a line before a binary operator when splitting a block of code over
multiple lines. This is so that _Black_ is compliant with the recent changes in the
[PEP 8](https://www.python.org/dev/peps/pep-0008/#should-a-line-break-before-or-after-a-binary-operator)
style guide, which emphasizes that this approach improves readability.

Almost all operators will be surrounded by single spaces, the only exceptions are unary
operators (`+`, `-`, and `~`), and power operators when both operands are simple. For
powers, an operand is considered simple if it's only a NAME, numeric CONSTANT, or
attribute access (chained
attribute access is allowed), with or without a preceding
unary operator.

```python
# For example, these won't be surrounded by whitespace
a = x**y
b = config.base**5.2
```

```
c = config.base**runtime.config.exponent
d = 2**5
e = 2**~5

# ... but these will be surrounded by whitespace
f = 2 ** get_exponent()
g = get_x() ** get_y()
h = config['base'] ** 2
```

Slices

PEP 8
[recommends](https://www.python.org/dev/peps/pep-0008/#whitespace-in-expressions-and-statements)
to treat `:` in slices as a binary operator with the lowest priority, and to leave an
equal amount of space on either side, except if a parameter is omitted (e.g.
`ham[1 + 1 :]`). It recommends no spaces around `:` operators for "simple expressions"
(`ham[lower:upper]`), and extra space for "complex expressions"
(`ham[lower : upper + offset]`). _Black_ treats anything more than variable names as
"complex" (`ham[lower : upper + 1]`). It also states that for extended slices, both `:`
operators have to have the same amount
 of spacing, except if a parameter is omitted
(`ham[1 + 1 ::]`). _Black_ enforces these rules consistently.

This behaviour may raise `E203 whitespace before ':'` warnings in style guide
enforcement tools like Flake8. Since `E203` is not PEP 8 compliant, you should tell
Flake8 to ignore these warnings.

Parentheses

Some parentheses are optional in the Python grammar. Any expression can be wrapped in a
pair of parentheses to form an atom. There are a few interesting cases:

- `if (...):`
- `while (...):`
- `for (...) in (...):`
- `assert (...), (...)`
- `from X import (...)`
- assignments like:
 - `target = (...)`
 - `target: type = (...)`
 - `some, *un, packing = (...)`
 - `augmented += (...)`

In those cases, parentheses are removed when the entire statement fits in one line, or
if the inner expression doesn't have any delimiters to further split on. If there is
only a single delimiter and the expression starts or ends with a bracket, the
parentheses can also be successfully

omitted since the existing bracket pair will
organize the expression neatly anyway. Otherwise, the parentheses are added.

Please note that _Black_ does not add or remove any additional nested parentheses that
you might want to have for clarity or further code organization. For example those
parentheses are not going to be removed:

```py3
return not (this or that)
decision = (maybe.this() and values > 0) or (maybe.that() and values < 0)
```

Call chains

Some popular APIs, like ORMs, use call chaining. This API style is known as a
[fluent interface](https://en.wikipedia.org/wiki/Fluent_interface). _Black_ formats
those by treating dots that follow a call or an indexing operation like a very low
priority delimiter. It's easier to show the behavior than to explain it. Look at the
example:

```py3
def example(session):
  result = (
    session.query(models.Customer.id)
    .filter(
      models.Customer.account_id == account_id,
      models.Customer.email == email_address,
    )
    .order_by(models.Customer.id.asc())
    .all()
  )
```

Typing stub files

PEP 484 describes the syntax for type hints in Python. One of the use cases for typing
is providing type annotations for modules which cannot contain them directly (they might
be written in C, or they might be third-party, or their implementation may be overly
dynamic, and so on).

To solve this,
[stub files with the `.pyi` file extension](https://www.python.org/dev/peps/pep-0484/#stub-files)
can be used to describe typing information for an external module. Those stub files omit
the implementation of classes and functions they describe, instead they only contain the
structure of the file (listing globals, functions, and classes with their members). The
recommended code style for those files is more terse than PEP 8:

- prefer `...` on the same line as the class/function signature;

- avoid vertical whitespace between consecutive module-level functions, names, or methods
 and fields within a single class;
- use a single blank line between top-level class definitions, or none if the classes
 are very small.

Black enforces the above rules. There are additional guidelines for formatting `.pyi` file that are not enforced yet but might be in a future version of the formatter:

- prefer `...` over `pass`;
- avoid using string literals in type annotations, stub files support forward references
 natively (like Python 3.7 code with `from __future__ import annotations`);
- use variable annotations instead of type comments, even for stubs that target older
 versions of Python.

Line endings

Black will normalize line endings (`\n` or `\r\n`) based on the first line ending of the file.

Form feed characters

Black will retain form feed characters on otherwise empty lines at the module level. Only one form feed is retained for a group of consecutive empty lines. Where there are two empty lines in a row, the form feed is placed on the second line.

Pragmatism

Early versions of _Black_ used to be absolutist in some respects. They took after its initial author. This was fine at the time as it made the implementation simpler and there were not many users anyway. Not many edge cases were reported. As a mature tool, _Black_ does make some exceptions to rules it otherwise holds. This section documents what those exceptions are and why this is the case.

(labels/magic-trailing-comma)=

The magic trailing comma

Black in general does not take existing formatting into account.

However, there are cases where you put a short collection or function call in your code but you anticipate it will grow in the future.

For example:

```py3
TRANSLATIONS = {
```

```
  "en_us": "English (US)",
  "pl_pl": "polski",
}
```

Early versions of _Black_ used to ruthlessly collapse those into one line (it fits!).
Now, you can communicate that you don't want that by putting a trailing comma in the
collection yourself. When you do, _Black_ will know to
 always explode your collection
into one item per line.

How do you make it stop? Just delete that trailing comma and _Black_ will collapse your
collection into one line if it fits.

If you must, you can recover the behaviour of early versions of _Black_ with the option
`--skip-magic-trailing-comma` / `-C`.

r"strings" and R"strings"

Black normalizes string quotes as well as string prefixes, making them lowercase. One
exception to this rule is r-strings. It turns out that the very popular
[MagicPython](https://github.com/MagicStack/MagicPython/) syntax highlighter, used by
default by (among others) GitHub and Visual Studio Code, differentiates between
r-strings and R-strings. The former are syntax highlighted as regular expressions while
the latter are treated as true raw strings with no special semantics.

(labels/ast-changes)=

AST before and after formatting

When run with `--safe` (the default), _Black_ checks that the code before and after is
semantically equivalent. This
 check is done by comparing the AST of the source with the
AST of the target. There are three limited cases in which the AST does differ:

1. _Black_ cleans up leading and trailing whitespace of docstrings, re-indenting them if
   needed. It's been one of the most popular user-reported features for the formatter to
   fix whitespace issues with docstrings. While the result is technically an AST
   difference, due to the various possibilities of forming docstrings, all real-world
   uses of docstrings that we're aware of sanitize indentation and leading/trailing
   whitespace anyway.

1. _Black_ manages optional parentheses for some statements. In the case of the `del`
   statement, presence of wrapping parentheses or lack of thereof changes the resulting
   AST but is semantically equivalent in the interpreter.

1. _Black_ might move comments around, which includes type comments. Those are part of
   the AST as of Python 3.8. While the tool implements a number of special cases for

those comments, there is no guarantee they will remain where they were in the source.
Note that this doesn't change runtime behavior of the source code.

To put things in perspective, the code equivalence check is a feature of _Black_ which other formatters don't implement at all. It is of crucial importance to us to ensure code behaves the way it did before it got reformatted. We treat this as a feature and there are no plans to relax this in the future. The exceptions enumerated above stem from either user feedback or implementation details of the tool. In each case we made due diligence to ensure that the AST divergence is of no practical consequence.

```
[tool.black]
line-ranges = "1-1"
name: diff-shades-comment

on:
 workflow_run:
   workflows: [diff-shades]
   types: [completed]

permissions:
 pull-requests: write

jobs:
 comment:
   runs-on: ubuntu-latest
   steps:
     - uses: actions/checkout@v4
     - uses: actions/setup-python@v5
       with:
         python-version: "*"

     - name: Install support dependencies
       run: |
         python -m pip install pip --upgrade
         python -m pip install click packaging urllib3

     - name: Get details from initial workflow run
       id: metadata
       env:
         GITHUB_TOKEN: ${{ github.token }}
       run: >
         python scripts/diff_shades_gha_helper.py comment-details
         ${{github.event.workflow_run.id }}

     - name: Try to find pre-existing PR comment
       if: steps.metadata.outputs.needs-comment == 'true'
       id: find-comment
       uses: peter-evans/find-comment@3eae4d37986fb5a8592848f6a574fdf654e61f9e
```

```
      with:
        issue-number: ${{ steps.metadata.outputs.pr-number
 }}
        comment-author: "github-actions[bot]"
        body-includes: "diff-shades"

    - name: Create or update PR comment
      if: steps.metadata.outputs.needs-comment == 'true'
      uses: peter-evans/create-or-update-comment@71345be0265236311c031f5c7866368bd1eff043
      with:
        comment-id: ${{ steps.find-comment.outputs.comment-id }}
        issue-number: ${{ steps.metadata.outputs.pr-number }}
        body: ${{ steps.metadata.outputs.comment-body }}
        edit-mode: replace
```

A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All
Python releases are Open Source (see https://opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no

1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

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Welcome future contributor! We're happy to see you willing to make the project better.

If you aren't familiar with _Black_, or are looking for documentation on something specific, the [user documentation](https://black.readthedocs.io/en/latest/) is the best place to look.

For getting started on contributing, please read the
[contributing documentation](https://black.readthedocs.org/en/latest/contributing/) for
all you need to know.

Thank you, and we look forward to your contributions!
```{include} ../AUTHORS.md

```
--- [Deterministic header]
+++ [Deterministic header]
@@ -1,6 +1,5 @@
-def abc ():
-    return ["hello", "world",
-            "!"]
+def abc():
+   return ["hello", "world", "!"]

-print("Incorrect formatting"
-)
+
+print("Incorrect formatting")
<!--
black documentation master file, created by
sphinx-quickstart on Fri Mar 23 10:53:30 2018.
-->

The uncompromising code formatter

> Any color you like.

By using _Black_, you agree to cede control over minutiae of hand-formatting. In return,
Black gives you speed, determinism, and freedom from `pycodestyle` nagging about
formatting. You will save time and mental energy for more important matters.

Black makes code review faster by producing the smallest diffs possible. Blackened
code looks the same regardless of the project you're reading. Formatting becomes
transparent after a while and you can focus on the content instead.

Try it out now using the [Black Playground](https://black.vercel.app).

```{admonition} Note - Black is now stable!
*Black* is [successfully used](https://github.com/psf/black#used-by) by
many projects, small and big. *Black* has a comprehensive test suite, with efficient
parallel tests, our own auto formatting and parallel Continuous Integration runner.
Now
 that we have become stable, you should not expect large changes to formatting in
the future. Stylistic changes will mostly be responses to bug reports and support for new Python
syntax.
```

Also, as a safety measure which slows down processing, *Black* will check that the
reformatted code still produces a valid AST that is effectively equivalent to the
original (see the
[Pragmatism](./the_black_code_style/current_style.md#pragmatism)
section for details). If you're feeling confident, use `--fast`.
```

```{note}
{doc}`Black is licensed under the MIT license <license>`.
```

Testimonials

Mike Bayer, author of [SQLAlchemy](https://www.sqlalchemy.org/):

> _I can't think of any single tool in my entire programming career that has given me a
> bigger productivity increase by its introduction. I can now do refactorings in about
> 1% of the keystrokes that it would have taken me previously when we had no way for
> code to format itself._

Dusty Phillips,
[writer](https://smile.amazon.com/s/ref=nb_sb_noss?url=search-alias%3Daps&field-keywords=dusty+phillips):

>
 Black is opinionated so you don't have to be.

Hynek Schlawack, creator of [attrs](https://www.attrs.org/), core developer of
Twisted and CPython:

> _An auto-formatter that doesn't suck is all I want for Xmas!_

Carl Meyer, [Django](https://www.djangoproject.com/) core developer:

> _At least the name is good._

Kenneth Reitz, creator of [requests](http://python-requests.org/) and
[pipenv](https://docs.pipenv.org/):

> _This vastly improves the formatting of our code. Thanks a ton!_

Show your style

Use the badge in your project's README.md:

```md
[![Code style: black](https://img.shields.io/badge/code%20style-black-000000.svg)](https://github.com/psf/black)
```
```

Using the badge in README.rst:

```rst
.. image:: https://img.shields.io/badge/code%20style-black-000000.svg
  :target: https://github.com/psf/black
```

Looks like this:

```{image} https://img.shields.io/badge/code%20style-black-000000.svg
:target:
 https://github.com/psf/black
```

Contents

```{toctree}
---
maxdepth: 3
includehidden:
---

the_black_code_style/index
```

```{toctree}
---
maxdepth: 3
includehidden:
caption: User Guide
---

getting_started
usage_and_configuration/index
integrations/index
guides/index
faq
```

```{toctree}
---
maxdepth: 2
includehidden:
caption: Development
---

contributing/index
```

change_log
authors
```

```{toctree}
---
hidden:
caption: Project Links
---

GitHub <https://github.com/psf/black>
PyPI <https://pypi.org/project/black>
Chat <https://discord.gg/RtVdv86PrH>
```

Indices and tables

- {ref}`genindex`
- {ref}`search`
The (future of the) Black code style

Preview style

(labels/preview-style)=

Experimental, potentially disruptive style changes are gathered under the `--preview` CLI flag. At the end of each year, these changes may be adopted into the default style, as described in [The Black Code Style](index.md). Because the functionality is experimental, feedback and issue reports are highly encouraged!

In the past, the preview style included some features with known bugs, so that we were unable to move these features to the stable style. Therefore, such features are now moved to the `--unstable` style. All features in the `--preview` style are expected to make it to next year's stable style; features in the `--unstable` style will be stabilized only if issues with them are fixed. If bugs are discovered in a `--preview` feature, it is demoted to the `--unstable` style. To avoid thrash when a feature is demoted from the `--preview` to the `--unstable` style, users can use the `--enable-unstable-feature`
 flag to enable specific unstable features.

(labels/preview-features)=

Currently, the following features are included in the preview style:

- `always_one_newline_after_import`: Always force one blank line after import
 statements, except when the line after the import is a comment or an import statement
- `wrap_long_dict_values_in_parens`: Add parentheses around long values in dictionaries
 ([see below](labels/wrap-long-dict-values))
```

(labels/unstable-features)=

The unstable style additionally includes the following features:

- `string_processing`: split long string literals and related changes
 ([see below](labels/string-processing))
- `multiline_string_handling`: more compact formatting of expressions involving
 multiline strings ([see below](labels/multiline-string-handling))
- `hug_parens_with_braces_and_square_brackets`: more compact formatting of nested
 brackets ([see below](labels/hug-parens))

(labels/wrap-long-dict-values)=

Improved parentheses management
 in dicts

For dict literals with long values, they are now wrapped in parentheses. Unnecessary
parentheses are now removed. For example:

```python
my_dict = {
   "a key in my dict": a_very_long_variable
   * and_a_very_long_function_call()
   / 100000.0,
   "another key": (short_value),
}
```

will be changed to:

```python
my_dict = {
   "a key in my dict": (
       a_very_long_variable * and_a_very_long_function_call() / 100000.0
   ),
   "another key": short_value,
}
```

(labels/hug-parens)=

Improved multiline dictionary and list indentation for sole function parameter

For better readability and less verticality, _Black_ now pairs parentheses ("(", ")")
with braces ("{", "}") and square brackets ("[", "]") on the same line. For example:

```python
```

```
foo(
  [
      1,
      2,
      3,
  ]
)

nested_array = [
  [
      1,
      2,
      3,
  ]
]
```

will be changed to:

```python
foo([
  1,
  2,
  3,
])

nested_array = [[
  1,
  2,

  3,
]]
```

This also applies to list and dictionary unpacking:

```python
foo(
  *[
      a_long_function_name(a_long_variable_name)
      for a_long_variable_name in some_generator
  ]
)
```

will become:

```python
```

```
foo(*[
   a_long_function_name(a_long_variable_name)
   for a_long_variable_name in some_generator
])
```

You can use a magic trailing comma to avoid this compacting behavior; by default, _Black_ will not reformat the following code:

```python
foo(
   [
      1,
      2,
      3,
   ],
)
```

(labels/string-processing)=

Improved string processing

Black will split long string literals and merge short ones. Parentheses are used where appropriate. When split, parts of f-strings that don't need formatting are converted to plain strings. f-strings will not be merged if they contain internal quotes and it would change their quotation mark style. User-made splits are respected when they do not exceed the line length limit. Line continuation backslashes
 are converted into
parenthesized strings. Unnecessary parentheses are stripped. The stability and status of this feature istracked in [this issue](https://github.com/psf/black/issues/2188).

(labels/multiline-string-handling)=

Improved multiline string handling

Black is smarter when formatting multiline strings, especially in function arguments, to avoid introducing extra line breaks. Previously, it would always consider multiline strings as not fitting on a single line. With this new feature, _Black_ looks at the context around the multiline string to decide if it should be inlined or split to a separate line. For example, when a multiline string is passed to a function, _Black_ will only split the multiline string if a line is too long or if multiple arguments are being passed.

For example, _Black_ will reformat

```python
textwrap.dedent(
```

```
    """\
    This is a
    multiline string
"""
)
```

to:

```python
textwrap.dedent("""\
    This is a
    multiline string
""")
```

And:

```python
MULTILINE
 = """
foobar
""".replace(
    "\n", ""
)
```

to:

```python
MULTILINE = """
foobar
""".replace("\n", "")
```

Implicit multiline strings are special, because they can have inline comments. Strings without comments are merged, for example

```python
s = (
    "An "
    "implicit "
    "multiline "
    "string"
)
```

becomes

```python
s = "An implicit multiline string"
```

A comment on any line of the string (or between two string lines) will block the merging, so

```python
s = (
   "An "  # Important comment concerning just this line
   "implicit "
   "multiline "
   "string"
)
```

and

```python
s = (
   "An "
   "implicit "
   # Comment in between
   "multiline "
   "string"
)
```

will not be merged. Having the comment after or before the string lines (but still inside the parens) will merge the string. For example

```python
s = (  # Top comment
   "An "
   "implicit "
   "multiline "
   "string"
   # Bottom comment
)
```

becomes

```python
s
 = (  # Top comment
   "An implicit multiline string"
```

```
   # Bottom comment
)
```
.git_archival.txt export-subst
*.py diff=python
Usage and Configuration

```{toctree}
---
hidden:
---

the_basics
file_collection_and_discovery
black_as_a_server
black_docker_image
```

Sometimes, running _Black_ with its defaults and passing filepaths to it just won't cut it. Passing each file using paths will become burdensome, and maybe you would like _Black_ to not touch your files and just output diffs. And yes, you _can_ tweak certain parts of _Black_'s style, but please know that configurability in this area is purposefully limited.

Using many of these more advanced features of _Black_ will require some configuration. Configuration that will either live on the command line or in a TOML configuration file.

This section covers features of _Black_ and configuring _Black_ in detail:

- {doc}`The basics <./the_basics>`
- {doc}`File collection and discovery <file_collection_and_discovery>`
- {doc}`Black as a server (blackd) <./black_as_a_server>`
- {doc}`Black Docker image <./black_docker_image>`
File collection and discovery

You can directly pass _Black_ files, but you can also pass directories and _Black_ will walk them, collecting files to format. It determines what files to format or skip automatically using the inclusion and exclusion regexes and as well their modification time.

Ignoring unmodified files

Black remembers files it has already formatted, unless the `--diff` flag is used or code is passed via standard input. This information is stored per-user. The exact location of the file depends on the _Black_ version and the system on which _Black_ is run. The file is non-portable. The standard location on common operating systems is:

- Windows:

`C:\\Users\<username>\AppData\Local\black\black\Cache\<version>\cache.<line-length>.<file-mode>.pickle`
- macOS:
`/Users/<username>/Library/Caches/black/<version>/cache.<line-length>.<file-mode>.pickle`
- Linux:
`/home/<username>/.cache/black/<version>/cache.<line-length>.<file-mode>.pickle`

`file-mode` is an int
flag that determines whether the file was formatted as 3.6+ only,
as .pyi, and whether string normalization was omitted.

To override the location of these files on all systems, set the environment variable
`BLACK_CACHE_DIR` to the preferred location. Alternatively on macOS and Linux, set
`XDG_CACHE_HOME` to your preferred location. For example, if you want to put the cache
in the directory you're running _Black_ from, set `BLACK_CACHE_DIR=.cache/black`.
Black will then write the above files to `.cache/black`. Note that `BLACK_CACHE_DIR`
will take precedence over `XDG_CACHE_HOME` if both are set.

.gitignore

If `--exclude` is not set, _Black_ will automatically ignore files and directories in
`.gitignore` file(s), if present.

If you want _Black_ to continue using `.gitignore` while also configuring the exclusion
rules, please use `--extend-exclude`.
---
name: Documentation
about: Report a problem with or suggest something for the documentation
title: ""
labels: "T: documentation"
assignees: ""

Is this related to a problem? Please describe.

<!-- A clear and concise description of what the problem is.
e.g. I'm always frustrated when [...] / I wished that [...] -->

Describe the solution you'd like

<!-- A clear and concise description of what you want to
happen or see changed. -->

Describe alternatives you've considered

<!-- A clear and concise description of any
alternative solutions or features you've considered. -->

Additional context

<!-- Add any other context or screenshots about the issue
here. -->
Contributing

```{toctree}
---
hidden:
---

the_basics
gauging_changes
issue_triage
release_process
```

Welcome! Happy to see you willing to make the project better. Have you read the entire
[user documentation](https://black.readthedocs.io/en/latest/) yet?

```{rubric} Bird's eye view

```

In terms of inspiration, _Black_ is about as configurable as _gofmt_ (which is to say,
not very). This is deliberate. _Black_ aims to provide a consistent style and take away
opportunities for arguing about style.

Bug reports and fixes are always welcome! Please follow the
[issue templates on GitHub](https://github.com/psf/black/issues/new/choose) for best
results.

Before you suggest a new feature or configuration knob, ask yourself why you want it. If
it enables better integration with some workflow, fixes an inconsistency, speeds things
up, and so on - go for it! On the other hand, if your answer is "because I don't like a
particular formatting" then you're not ready to embrace _Black_ yet. Such
 changes are
unlikely to get accepted. You can still try but prepare to be disappointed.

```{rubric} Contents

```

This section covers the following topics:

- {doc}`the_basics`
- {doc}`gauging_changes`
- {doc}`release_process`

For an overview on contributing to the _Black_, please checkout {doc}`the_basics`.
[tool.pylint.format]
max-line-length = "88"
{
"cells": [
 {
  "cell_type": "code",
  "execution_count": null,
  "metadata": {
   "tags": []
  },
  "outputs": [],
  "source": [
   "%%time\n",
   "\n",
   "print(\"foo\")"
  ]
 },
 {
  "cell_type": "markdown",
  "metadata": {},
  "source": [
   "This notebook should not be reformatted"
  ]
 },
 {
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  "execution_count": null,
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  "outputs": [],
  "source": []
 }
],
"metadata": {
 "interpreter": {
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 },
 "kernelspec": {
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  "name": "python3"
 },
 "language_info": {
  "name": "python",
  "version": ""
 }
},
"nbformat": 4,
"nbformat_minor": 4

}
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--- [Deterministic header]
+++ [Deterministic header]
@@ -1,3 +1,3 @@
# A comment-only file, with no final EOL character
# This triggers https://bugs.python.org/issue2142
-# This is the line without the EOL character
\ No newline at end of file
+# This is the line without the EOL character
[flake8]
# B905 should be enabled when we drop support for 3.9
ignore = E203, E266, E501, E701, E704, W503, B905, B907
# line length is intentionally set to 80 here because black uses Bugbear
# See https://black.readthedocs.io/en/stable/guides/using_black_with_other_tools.html#bugbear for more details
max-line-length = 80
max-complexity = 18
select = B,C,E,F,W,T4,B9
# The Black Code Style

```{toctree}
---
hidden:
---

Current style <current_style>
Future style <future_style>
```

```

_Black_ is a PEP 8 compliant opinionated formatter with its own style.

While keeping the style unchanged throughout releases has always been a goal, the
_Black_ code style isn't set in stone. It evolves to accommodate for new features in the
Python language and, occasionally, in response to user feedback. Large-scale style
preferences presented in {doc}`current_style` are very unlikely to change, but minor
style aspects and details might change according to the stability policy presented
below. Ongoing style considerations are tracked on GitHub with the
[style](https://github.com/psf/black/labels/T%3A%20style) issue label.

(labels/stability-policy)=

## Stability Policy

The following policy applies for the _Black_ code style, in non pre-release versions of
_Black_:

- If code has been formatted with _Black_, it will remain unchanged when formatted with
 the same options
 using any other release in the same calendar year.

 This means projects can safely use `black ~= 22.0` without worrying about formatting
 changes disrupting their project in 2022. We may still fix bugs where _Black_ crashes
 on some code, and make other improvements that do not affect formatting.

 In rare cases, we may make changes affecting code that has not been previously
 formatted with _Black_. For example, we have had bugs where we accidentally removed
 some comments. Such bugs can be fixed without breaking the stability policy.

- The first release in a new calendar year _may_ contain formatting changes, although
 these will be minimised as much as possible. This is to allow for improved formatting
 enabled by newer Python language syntax as well as due to improvements in the
 formatting logic.

- The `--preview` and `--unstable` flags are exempt from this policy. There are no
 guarantees around the stability of the output with these flags passed into _Black_.
 They
 are intended for allowing experimentation with proposed changes to the _Black_
 code style. The `--preview` style at the end of a year should closely match the stable
 style for the next year, but we may always make changes.

Documentation for both the current and future styles can be found:

- {doc}`current_style`
- {doc}`future_style`
```

```
proseWrap: always
printWidth: 88
endOfLine: auto
name: Documentation

on: [push, pull_request]

permissions:
 contents: read

jobs:
 build:
   # We want to run on external PRs, but not on our own internal PRs as they'll be run
   # by the push to the branch. Without this if check, checks are duplicated since
   # internal PRs match both the push and pull_request events.
   if:
     github.event_name == 'push' || github.event.pull_request.head.repo.full_name !=
     github.repository

   strategy:
     fail-fast: false
     matrix:
       os: [ubuntu-latest, windows-latest]

   runs-on: ${{ matrix.os }}
   steps:
     - uses: actions/checkout@v4

     - name: Set up latest Python
       uses: actions/setup-python@v5
       with:
         python-version: "3.13"
         allow-prereleases: true

     - name: Install dependencies
       run: |
         python -m pip install uv
         python -m uv venv
         python -m uv pip install -e ".[d]"
         python -m uv pip install -r "docs/requirements.txt"


  - name: Build documentation
       run: sphinx-build -a -b html -W --keep-going docs/ docs/_build
# Version control integration

Use [pre-commit](https://pre-commit.com/). Once you
[have it installed](https://pre-commit.com/#install), add this to the
```

`.pre-commit-config.yaml` in your repository:

```yaml
repos:
 # Using this mirror lets us use mypyc-compiled black, which is about 2x faster
 - repo: https://github.com/psf/black-pre-commit-mirror
   rev: 25.1.0
   hooks:
     - id: black
       # It is recommended to specify the latest version of Python
       # supported by your project here, or alternatively use
       # pre-commit's default_language_version, see
       # https://pre-commit.com/#top_level-default_language_version
       language_version: python3.11
```

Feel free to switch out the `rev` value to a different version of Black.

Note if you'd like to use a specific commit in `rev`, you'll need to swap the repo
specified from the mirror to https://github.com/psf/black. We discourage the use of
branches or other mutable refs since the hook [won't auto update as
 you may
expect][pre-commit-mutable-rev].

Jupyter Notebooks

There is an alternate hook `black-jupyter` that expands the targets of `black` to
include Jupyter Notebooks. To use this hook, simply replace the hook's `id: black` with
`id: black-jupyter` in the `.pre-commit-config.yaml`:

```yaml
repos:
 # Using this mirror lets us use mypyc-compiled black, which is about 2x faster
 - repo: https://github.com/psf/black-pre-commit-mirror
   rev: 25.1.0
   hooks:
     - id: black-jupyter
       # It is recommended to specify the latest version of Python
       # supported by your project here, or alternatively use
       # pre-commit's default_language_version, see
       # https://pre-commit.com/#top_level-default_language_version
       language_version: python3.11
```

```{note}
The `black-jupyter` hook became available in version 21.8b0.
```

[pre-commit-mutable-rev]:
 https://pre-commit.com/#using-the-latest-version-for-a-repository
[project]
name = "test"
version = "1.0.0"

[tool.black]
line-length = 79
coverage >= 5.3
pre-commit
pytest >= 6.1.1
pytest-xdist >= 3.0.2
pytest-cov >= 4.1.0
tox
Integrations

```{toctree}
---
hidden:
---

editors
github_actions
source_version_control
```

Black can be integrated into many environments, providing a better and smoother
experience. Documentation for integrating _Black_ with a tool can be found for the
following areas:

- {doc}`Editor / IDE <./editors>`
- {doc}`GitHub Actions <./github_actions>`
- {doc}`Source version control <./source_version_control>`

Editors and tools not listed will require external contributions.

Patches welcome!

Any tool can pipe code through _Black_ using its stdio mode (just
[use `-` as the file name](https://www.tldp.org/LDP/abs/html/special-chars.html#DASHREF2)).
The formatted code will be returned on stdout (unless `--check` was passed). _Black_
will still emit messages on stderr but that shouldn't affect your use case.

This can be used for example with PyCharm's or IntelliJ's
[File Watchers](https://www.jetbrains.com/help/pycharm/file-watchers.html).
{
 "$schema": "http://json-schema.org/draft-07/schema#",
 "$id": "https://github.com/psf/black/blob/main/src/black/resources/black.schema.json",

"$comment": "tool.black table in pyproject.toml",
"type": "object",
"additionalProperties": false,
"properties": {
"code": {
"type": "string",
"description": "Format the code passed in as a string."
},
"line-length": {
"type": "integer",
"description": "How many characters per line to allow.",
"default": 88
},
"target-version": {
"type": "array",
"items": {
"enum": [
"py33",
"py34",
"py35",
"py36",
"py37",
"py38",
"py39",
"py310",
"py311",
"py312",
"py313"
]
},
"description": "Python versions that should be supported by Black's output. You should include all versions that your code supports. By default, Black will infer target versions from
the project metadata in pyproject.toml. If this does not yield conclusive results, Black will use per-file auto-detection."
},
"pyi": {
"type": "boolean",
"description": "Format all input files like typing stubs regardless of file extension. This is useful when piping source on standard input.",
"default": false
},
"ipynb": {
"type": "boolean",
"description": "Format all input files like Jupyter Notebooks regardless of file extension. This is useful when piping source on standard input.",
"default": false
},
"python-cell-magics": {

"type": "array",
"items": {
"type": "string"
},
"description": "When processing Jupyter Notebooks, add the given magic to the list of known python-magics (capture, prun, pypy, python, python3, time, timeit). Useful for formatting cells with custom python magics."
},
"skip-source-first-line": {
"type": "boolean",
"description": "Skip the first line
of the source code.",
"default": false
},
"skip-string-normalization": {
"type": "boolean",
"description": "Don't normalize string quotes or prefixes.",
"default": false
},
"skip-magic-trailing-comma": {
"type": "boolean",
"description": "Don't use trailing commas as a reason to split lines.",
"default": false
},
"preview": {
"type": "boolean",
"description": "Enable potentially disruptive style changes that may be added to Black's main functionality in the next major release.",
"default": false
},
"unstable": {
"type": "boolean",
"description": "Enable potentially disruptive style changes that have known bugs or are not currently expected to make it into the stable style Black's next major release. Implies --preview.",
"default": false
},
"enable-unstable-feature": {
"type": "array",
"items": {
"enum": [
"string_processing",
"hug_parens_with_braces_and_square_brackets",
"wrap_long_dict_values_in_parens",
"multiline_string_handling",
"always_one_newline_after_import"
]
},
"description": "Enable specific features included in the `--unstable` style. Requires `--preview`. No compatibility guarantees are provided on the behavior or existence of any unstable features."

},
"check": {
"type": "boolean",
"description": "Don't write the files back, just return the status. Return code 0 means nothing would change. Return code 1 means some files would be reformatted. Return code 123 means there was an internal error.",
"default": false
},
"diff": {
"type": "boolean",
"description": "Don't write the files back, just output a diff to indicate what changes Black would've made. They are printed to stdout so capturing them is simple.",
"default": false
},
"color": {
"type": "boolean",
"description": "Show
(or do not show) colored diff. Only applies when --diff is given.",
"default": false
},
"fast": {
"type": "boolean",
"description": "By default, Black performs an AST safety check after formatting your code. The --fast flag turns off this check and the --safe flag explicitly enables it. [default: --safe]",
"default": false
},
"required-version": {
"type": "string",
"description": "Require a specific version of Black to be running. This is useful for ensuring that all contributors to your project are using the same version, because different versions of Black may format code a little differently. This option can be set in a configuration file for consistent results across environments."
},
"exclude": {
"type": "string",
"description": "A regular expression that matches files and directories that should be excluded on recursive searches. An empty value means no paths are excluded. Use forward slashes for directories
on all platforms (Windows, too). By default, Black also ignores all paths listed in .gitignore. Changing this value will override all default exclusions. [default:
/(\\.direnv|\\.eggs|\\.git|\\.hg|\\.ipynb_checkpoints|\\.mypy_cache|\\.nox|\\.pytest_cache|\\.ruff_cache|\\.tox|\\.svn|\\.venv|\\.vscode|__pypackages__|_build|buck-out|build|dist|venv)/]"
},
"extend-exclude": {
"type": "string",
"description": "Like --exclude, but adds additional files and directories on top of the default values instead of overriding them."
},
"force-exclude": {
"type": "string",
"description": "Like --exclude, but files and directories matching this regex will be excluded even when they are

passed explicitly as arguments. This is useful when invoking Black programmatically on changed files, such as in a pre-commit hook or editor plugin."
  },
  "include": {
    "type": "string",
    "description": "A regular expression that matches files and directories that
 should be included on recursive searches. An empty value means all files are included regardless of the name. Use forward slashes for directories on all platforms (Windows, too). Overrides all exclusions, including from .gitignore and command line options.",
    "default": "(\\.pyi?|\\.ipynb)$"
  },
  "workers": {
    "type": "integer",
    "description": "When Black formats multiple files, it may use a process pool to speed up formatting. This option controls the number of parallel workers. This can also be specified via the BLACK_NUM_WORKERS environment variable. Defaults to the number of CPUs in the system."
  },
  "quiet": {
    "type": "boolean",
    "description": "Stop emitting all non-critical output. Error messages will still be emitted (which can silenced by 2>/dev/null).",
    "default": false
  },
  "verbose": {
    "type": "boolean",
    "description": "Emit messages about files that were not changed or were ignored due to exclusion patterns.
 If Black is using a configuration file, a message detailing which one it is using will be emitted.",
    "default": false
  }
 }
}
[format]
max-line-length = 88
Change Log

25.1.0

Highlights

This release introduces the new 2025 stable style (#4558), stabilizing
the following changes:

- Normalize casing of Unicode escape characters in strings to lowercase (#2916)
- Fix inconsistencies in whether certain strings are detected as docstrings (#4095)
- Consistently add trailing commas to typed function parameters (#4164)
- Remove redundant parentheses in if guards for case blocks (#4214)
- Add parentheses to if clauses in case blocks when the line is too long (#4269)
- Whitespace before `# fmt: skip` comments is no longer normalized (#4146)

- Fix line length computation for certain expressions that involve the power operator (#4154)
- Check if there is a newline before the terminating quotes of a docstring (#4185)
- Fix type annotation spacing between `*` and more complex type variable tuple (#4440)

The following changes were not in any previous release:

- Remove parentheses around sole list items (#4312)
- Generic function definitions
 are now formatted more elegantly: parameters are
 split over multiple lines first instead of type parameter definitions (#4553)

Stable style

- Fix formatting cells in IPython notebooks with magic methods and starting or trailing
 empty lines (#4484)
- Fix crash when formatting `with` statements containing tuple generators/unpacking
 (#4538)

Preview style

- Fix/remove string merging changing f-string quotes on f-strings with internal quotes
 (#4498)
- Collapse multiple empty lines after an import into one (#4489)
- Prevent `string_processing` and `wrap_long_dict_values_in_parens` from removing
 parentheses around long dictionary values (#4377)
- Move `wrap_long_dict_values_in_parens` from the unstable to preview style (#4561)

Packaging

- Store license identifier inside the `License-Expression` metadata field, see
 [PEP 639](https://peps.python.org/pep-0639/). (#4479)

Performance

- Speed up the `is_fstring_start` function in Black's tokenizer (#4541)

Integrations

-
 If using stdin with `--stdin-filename` set to a force excluded path, stdin won't be
 formatted. (#4539)

24.10.0

Highlights

- Black is now officially tested with Python 3.13 and provides Python 3.13
 mypyc-compiled wheels. (#4436) (#4449)

- Black will issue an error when used with Python 3.12.5, due to an upstream memory safety issue in Python 3.12.5 that can cause Black's AST safety checks to fail. Please use Python 3.12.6 or Python 3.12.4 instead. (#4447)
- Black no longer supports running with Python 3.8 (#4452)

Stable style

- Fix crashes involving comments in parenthesised return types or `X | Y` style unions. (#4453)
- Fix skipping Jupyter cells with unknown `%%` magic (#4462)

Preview style

- Fix type annotation spacing between * and more complex type variable tuple (i.e. `def fn(*args: *tuple[*Ts, T]) -> None: pass`) (#4440)

Caching

- Fix bug where the cache was shared between runs with and without `--unstable` (#4466)

Packaging

- Upgrade version of mypyc used to 1.12 beta (#4450) (#4449)
- `blackd` now requires a newer version of aiohttp. (#4451)

Output

- Added Python target version information on parse error (#4378)
- Add information about Black version to internal error messages (#4457)

24.8.0

Stable style

- Fix crash when `# fmt: off` is used before a closing parenthesis or bracket. (#4363)

Packaging

- Packaging metadata updated: docs are explictly linked, the issue tracker is now also linked. This improves the PyPI listing for Black. (#4345)

Parser

- Fix regression where Black failed to parse a multiline f-string containing another multiline string (#4339)
- Fix regression where Black failed to parse an escaped single quote inside an f-string (#4401)

- Fix bug with Black incorrectly parsing empty lines with a backslash (#4343)
- Fix bugs with Black's tokenizer not handling `\{` inside f-strings very well (#4422)
- Fix incorrect line numbers in the tokenizer for certain
 tokens within f-strings
 (#4423)

Performance

- Improve performance when a large directory is listed in `.gitignore` (#4415)

Blackd

- Fix blackd (and all extras installs) for docker container (#4357)

24.4.2

This is a bugfix release to fix two regressions in the new f-string parser introduced in
24.4.1.

Parser

- Fix regression where certain complex f-strings failed to parse (#4332)

Performance

- Fix bad performance on certain complex string literals (#4331)

24.4.1

Highlights

- Add support for the new Python 3.12 f-string syntax introduced by PEP 701 (#3822)

Stable style

- Fix crash involving indented dummy functions containing newlines (#4318)

Parser

- Add support for type parameter defaults, a new syntactic feature added to Python 3.13
 by PEP 696 (#4327)

Integrations

- Github Action now works even when `git archive` is skipped (#4313)

24.4.0

Stable style

- Fix unwanted crashes caused by AST equivalency check (#4290)

Preview style

- `if` guards in `case` blocks are now wrapped in parentheses when the line is too long. (#4269)
- Stop moving multiline strings to a new line unless inside brackets (#4289)

Integrations

- Add a new option `use_pyproject` to the GitHub Action `psf/black`. This will read the Black version from `pyproject.toml`. (#4294)

24.3.0

Highlights

This release is a milestone: it fixes Black's first CVE security vulnerability. If you run Black on untrusted input, or if you habitually put thousands of leading tab characters in your docstrings, you are strongly encouraged to upgrade immediately to fix [CVE-2024-21503](https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2024-21503).

This release also fixes a bug in Black's AST safety check that allowed Black to make incorrect changes to certain f-strings that are valid in Python 3.12 and higher.

Stable style

- Don't move comments along with delimiters, which could cause crashes (#4248)
- Strengthen AST safety check to catch more unsafe changes to strings. Previous versions of Black would incorrectly format the contents of certain unusual f-strings containing nested strings with the same quote type. Now, Black will crash on such strings until support for the new f-string syntax is implemented. (#4270)
- Fix a bug where line-ranges exceeding the last code line would not work as expected (#4273)

Performance

- Fix catastrophic performance on docstrings that contain large numbers of leading tab characters. This fixes [CVE-2024-21503](https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2024-21503). (#4278)

Documentation

- Note what happens when `--check` is used with `--quiet` (#4236)

24.2.0

Stable style

- Fixed a bug where comments where mistakenly removed along with redundant parentheses (#4218)

Preview style

- Move the `hug_parens_with_braces_and_square_brackets` feature to the unstable style due to an outstanding crash and proposed formatting tweaks (#4198)
- Fixed a bug where base expressions caused inconsistent formatting of ** in tenary expression (#4154)
- Checking for newline before adding one on docstring that is almost at the line limit (#4185)
- Remove redundant parentheses in `case` statement `if` guards (#4214).

Configuration

- Fix issue where _Black_ would ignore input files in the presence of symlinks (#4222)
- _Black_ now ignores `pyproject.toml` that is missing a `tool.black` section when discovering project root and configuration. Since _Black_ continues to use version control as an indicator of project root, this is expected to primarily change behavior for users in a monorepo setup (desirably). If you wish to preserve previous behavior, simply add an empty `[tool.black]` to the previously discovered `pyproject.toml` (#4204)

Output

- Black will swallow any `SyntaxWarning`s or `DeprecationWarning`s produced by the `ast` module when performing equivalence checks (#4189)

Integrations

- Add a JSONSchema and provide a validate-pyproject entry-point (#4181)

24.1.1

Bugfix release to fix a bug that made Black unusable on certain file systems with strict limits on path length.

Preview style

- Consistently add trailing comma on typed parameters (#4164)

Configuration

- Shorten the length of the name of the cache file to fix crashes on file systems that do not support long paths (#4176)

24.1.0

Highlights

This release introduces the new 2024 stable style (#4106), stabilizing the following changes:

- Add parentheses around `if`-`else` expressions (#2278)
- Dummy class and function implementations consisting only of `...` are formatted more compactly (#3796)
- If an assignment statement is too long, we now prefer splitting on the right-hand side (#3368)
- Hex codes in Unicode escape sequences are now standardized to lowercase (#2916)
- Allow empty first lines at the beginning of most blocks (#3967, #4061)
- Add parentheses around long type annotations (#3899)
- Enforce newline after module docstrings (#3932, #4028)
- Fix incorrect magic trailing comma handling in return types (#3916)
- Remove blank lines before class docstrings (#3692)
- Wrap multiple context managers in parentheses if combined in a single `with` statement (#3489)
- Fix bug in line length calculations for power operations (#3942)
- Add trailing commas to collection literals even if there's a comment after the last entry (#3393)
- When using `--skip-magic-trailing-comma` or `-C`, trailing commas are stripped from subscript expressions with more than 1 element (#3209)
- Add extra blank lines in stubs in a few cases (#3564, #3862)
- Accept raw strings as docstrings (#3947)
- Split long lines in case blocks (#4024)
- Stop removing spaces from walrus operators within subscripts (#3823)
- Fix incorrect formatting of certain async statements (#3609)
- Allow combining `# fmt: skip` with other comments (#3959)

There are already a few improvements in the `--preview` style, which are slated for the 2025 stable style. Try them out and [share your feedback](https://github.com/psf/black/issues). In the past, the preview style has included some features that we were not able to stabilize. This year, we're adding a separate `--unstable` style for features with known problems. Now, the `--preview` style only includes features that we actually expect to make it into next year's stable style.

Stable style

Several bug fixes were made in features that are moved to the stable style in this release:

- Fix comment handling when parenthesising conditional expressions (#4134)
- Fix bug where spaces were not added around parenthesized walruses in subscripts, unlike other binary operators (#4109)
- Remove empty lines before docstrings in async functions (#4132)
- Address a missing case in the change to allow empty lines at the beginning of all blocks, except immediately before a docstring (#4130)
- For stubs, fix logic to enforce empty line after nested classes with bodies (#4141)

Preview style

- Add `--unstable` style, covering preview features that have known problems that would block them from going into the stable style. Also add the `--enable-unstable-feature` flag; for example, use `--enable-unstable-feature hug_parens_with_braces_and_square_brackets` to apply this preview feature throughout 2024, even if a later Black release downgrades the feature to unstable (#4096)
- Format module docstrings the same as class and function docstrings (#4095)
- Fix crash when using a walrus in a dictionary (#4155)
- Fix unnecessary parentheses when wrapping long dicts (#4135)
- Stop normalizing spaces before `# fmt: skip` comments (#4146)

Configuration

- Print warning when configuration in `pyproject.toml` contains an invalid key (#4165)
- Fix symlink handling, properly ignoring symlinks that point outside of root (#4161)
- Fix cache mtime logic that resulted in false positive cache hits (#4128)
- Remove the long-deprecated `--experimental-string-processing` flag. This feature can currently be enabled with `--preview --enable-unstable-feature string_processing`. (#4096)

Integrations

- Revert the change to run Black's pre-commit integration only on specific git hooks (#3940) for better compatibility with older versions of pre-commit (#4137)

23.12.1

Packaging

- Fixed a bug that included dependencies from the `d` extra by default (#4108)

23.12.0

Highlights

It's almost 2024, which means it's time for a new edition of _Black_'s stable style! Together with this release, we'll put out an alpha release 24.1a1 showcasing the draft 2024 stable style, which we'll finalize in the January release. Please try it out and [share your feedback](https://github.com/psf/black/issues/4042).

This release (23.12.0) will still produce the 2023 style. Most but not all of the changes in `--preview` mode will be in the 2024 stable style.

Stable style

- Fix bug where `# fmt: off` automatically dedents when used with the `--line-ranges` option, even when it is not within the specified line range. (#4084)
- Fix feature detection for parenthesized context managers (#4104)

Preview style

- Prefer more equal signs before a break when splitting chained assignments (#4010)
- Standalone form feed characters at the module level are no longer removed (#4021)
- Additional cases of immediately nested tuples, lists, and dictionaries are now indented less (#4012)
- Allow empty lines at the beginning of all blocks, except immediately before a docstring (#4060)
- Fix crash in preview mode when using a short `--line-length` (#4086)
- Keep suites consisting of only an ellipsis on their own lines if they are not functions or class definitions (#4066) (#4103)

Configuration

- `--line-ranges` now skips _Black_'s internal stability check in `--safe` mode. This avoids a crash on rare inputs that have many unformatted same-content lines. (#4034)

Packaging

- Upgrade to mypy 1.7.1 (#4049) (#4069)
- Faster compiled wheels are now available for CPython 3.12 (#4070)

Integrations

- Enable 3.12 CI (#4035)
- Build docker images in parallel (#4054)
- Build docker images with 3.12 (#4055)

23.11.0

Highlights

- Support formatting ranges of lines with the new `--line-ranges` command-line option (#4020)

Stable style

- Fix crash on formatting bytes strings that look like docstrings (#4003)
- Fix crash when whitespace followed a backslash before newline in a docstring (#4008)
- Fix standalone comments inside complex blocks crashing Black (#4016)
- Fix crash on formatting code like `await (a ** b)` (#3994)
- No longer treat leading f-strings as docstrings. This matches Python's behaviour and fixes a crash (#4019)

Preview style

- Multiline dicts and lists that are the sole argument to a function are now indented less (#3964)
- Multiline unpacked dicts and lists as the sole argument to a function are now also indented
less (#3992)
- In f-string debug expressions, quote types that are visible in the final string are now preserved (#4005)
- Fix a bug where long `case` blocks were not split into multiple lines. Also enable general trailing comma rules on `case` blocks (#4024)
- Keep requiring two empty lines between module-level docstring and first function or class definition (#4028)
- Add support for single-line format skip with other comments on the same line (#3959)

Configuration

- Consistently apply force exclusion logic before resolving symlinks (#4015)
- Fix a bug in the matching of absolute path names in `--include` (#3976)

Performance

- Fix mypyc builds on arm64 on macOS (#4017)

Integrations

- Black's pre-commit integration will now run only on git hooks appropriate for a code formatter (#3940)

23.10.1

Highlights

- Maintenance release to get a fix out for GitHub Action edge case (#3957)

Preview style

- Fix merging implicit multiline strings that have
 inline comments (#3956)
- Allow empty first line after block open before a comment or compound statement (#3967)

Packaging

- Change Dockerfile to hatch + compile black (#3965)

Integrations

- The summary output for GitHub workflows is now suppressible using the `summary`
 parameter. (#3958)
- Fix the action failing when Black check doesn't pass (#3957)

Documentation

- It is known Windows documentation CI is broken
 https://github.com/psf/black/issues/3968

23.10.0

Stable style

- Fix comments getting removed from inside parenthesized strings (#3909)

Preview style

- Fix long lines with power operators getting split before the line length (#3942)
- Long type hints are now wrapped in parentheses and properly indented when split across
 multiple lines (#3899)
- Magic trailing commas are now respected in return types. (#3916)
- Require one empty line after module-level docstrings. (#3932)
- Treat raw triple-quoted strings as docstrings (#3947)

Configuration

-
 Fix cache versioning logic when `BLACK_CACHE_DIR` is set (#3937)

Parser

- Fix bug where attributes named `type` were not accepted inside `match` statements
 (#3950)

- Add support for PEP 695 type aliases containing lambdas and other unusual expressions (#3949)

Output

- Black no longer attempts to provide special errors for attempting to format Python 2 code (#3933)
- Black will more consistently print stacktraces on internal errors in verbose mode (#3938)

Integrations

- The action output displayed in the job summary is now wrapped in Markdown (#3914)

23.9.1

Due to various issues, the previous release (23.9.0) did not include compiled mypyc wheels, which make Black significantly faster. These issues have now been fixed, and this release should come with compiled wheels once again.

There will be no wheels for Python 3.12 due to a bug in mypyc. We will provide 3.12 wheels in a future release as soon as the mypyc bug is fixed.

Packaging

- Upgrade to mypy 1.5.1 (#3864)

Performance

- Store raw tuples instead of NamedTuples in Black's cache, improving performance and decreasing the size of the cache (#3877)

23.9.0

Preview style

- More concise formatting for dummy implementations (#3796)
- In stub files, add a blank line between a statement with a body (e.g an `if sys.version_info > (3, x):`) and a function definition on the same level (#3862)
- Fix a bug whereby spaces were removed from walrus operators within subscript(#3823)

Configuration

- Black now applies exclusion and ignore logic before resolving symlinks (#3846)

Performance

- Avoid importing `IPython` if notebook cells do not contain magics (#3782)
- Improve caching by comparing file hashes as fallback for mtime and size (#3821)

Blackd

- Fix an issue in `blackd` with single character input (#3558)

Integrations

- Black now has an
 [official pre-commit mirror](https://github.com/psf/black-pre-commit-mirror). Swapping
 `https://github.com/psf/black`
 to `https://github.com/psf/black-pre-commit-mirror` in
 your `.pre-commit-config.yaml` will make Black about 2x faster (#3828)
- The `.black.env` folder specified by `ENV_PATH` will now be removed on the completion
 of the GitHub Action (#3759)

23.7.0

Highlights

- Runtime support for Python 3.7 has been removed. Formatting 3.7 code will still be
 supported until further notice (#3765)

Stable style

- Fix a bug where an illegal trailing comma was added to return type annotations using
 PEP 604 unions (#3735)
- Fix several bugs and crashes where comments in stub files were removed or mishandled
 under some circumstances (#3745)
- Fix a crash with multi-line magic comments like `type: ignore` within parentheses
 (#3740)
- Fix error in AST validation when _Black_ removes trailing whitespace in a type comment
 (#3773)

Preview style

- Implicitly concatenated strings used as function args are no longer wrapped inside
 parentheses (#3640)
-
 Remove blank lines between a class definition and its docstring (#3692)

Configuration

- The `--workers` argument to _Black_ can now be specified via the `BLACK_NUM_WORKERS`
 environment variable (#3743)
- `.pytest_cache`, `.ruff_cache` and `.vscode` are now excluded by default (#3691)
- Fix _Black_ not honouring `pyproject.toml` settings when running `--stdin-filename`

and the `pyproject.toml` found isn't in the current working directory (#3719)
- _Black_ will now error if `exclude` and `extend-exclude` have invalid data types in `pyproject.toml`, instead of silently doing the wrong thing (#3764)

Packaging

- Upgrade mypyc from 0.991 to 1.3 (#3697)
- Remove patching of Click that mitigated errors on Python 3.6 with `LANG=C` (#3768)

Parser

- Add support for the new PEP 695 syntax in Python 3.12 (#3703)

Performance

- Speed up _Black_ significantly when the cache is full (#3751)
- Avoid importing `IPython` in a case where we wouldn't need it (#3748)

Output

- Use aware UTC datetimes internally, avoids deprecation warning on Python 3.12 (#3728)
- Change verbose logging to exactly mirror _Black_'s logic for source discovery (#3749)

Blackd

- The `blackd` argument parser now shows the default values for options in their help text (#3712)

Integrations

- Black is now tested with [`PYTHONWARNDEFAULTENCODING = 1`](https://docs.python.org/3/library/io.html#io-encoding-warning) (#3763)
- Update GitHub Action to display black output in the job summary (#3688)

Documentation

- Add a CITATION.cff file to the root of the repository, containing metadata on how to cite this software (#3723)
- Update the _classes_ and _exceptions_ documentation in Developer reference to match the latest code base (#3755)

23.3.0

Highlights

This release fixes a longstanding confusing behavior in Black's GitHub action, where the

version of the action did not determine the version of Black being run (issue #3382). In addition, there
is a small bug fix around imports and a number of improvements to the preview style.

Please try out the [preview style](https://black.readthedocs.io/en/stable/the_black_code_style/future_style.html#preview-style) with `black --preview` and tell us your feedback. All changes in the preview style are expected to become part of Black's stable style in January 2024.

Stable style

- Import lines with `# fmt: skip` and `# fmt: off` no longer have an extra blank line added when they are right after another import line (#3610)

Preview style

- Add trailing commas to collection literals even if there's a comment after the last entry (#3393)
- `async def`, `async for`, and `async with` statements are now formatted consistently compared to their non-async version. (#3609)
- `with` statements that contain two context managers will be consistently wrapped in parentheses (#3589)
- Let string splitters respect [East Asian Width](https://www.unicode.org/reports/tr11/) (#3445)
- Now long string literals can be split after East Asian commas and periods (`` U+3001 IDEOGRAPHIC COMMA, `` U+3002 IDEOGRAPHIC FULL STOP, & `` U+FF0C FULLWIDTH COMMA) besides before spaces (#3445)
- For stubs, enforce one blank line after a nested class with a body other than just `...` (#3564)
- Improve handling of multiline strings by changing line split behavior (#1879)

Parser

- Added support for formatting files with invalid type comments (#3594)

Integrations

- Update GitHub Action to use the version of Black equivalent to action's version if version input is not specified (#3543)
- Fix missing Python binary path in autoload script for vim (#3508)

Documentation

- Document that only the most recent release is supported for security issues; vulnerabilities should be reported through Tidelift (#3612)

23.1.0

Highlights

This is the first release of 2023, and following our
[stability policy](https://black.readthedocs.io/en/stable/the_black_code_style/index.html#stability-policy),
it
comes with a number of improvements to our stable style, including improvements to
empty line handling, removal of redundant parentheses in several contexts, and output
that highlights implicitly concatenated strings better.

There are also many changes to the preview style; try out `black --preview` and give us
feedback to help us set the stable style for next year.

In addition to style changes, Black now automatically infers the supported Python
versions from your `pyproject.toml` file, removing the need to set Black's target
versions separately.

Stable style

- Introduce the 2023 stable style, which incorporates most aspects of last year's
  preview style (#3418). Specific changes:
  - Enforce empty lines before classes and functions with sticky leading comments
    (#3302) (22.12.0)
  - Reformat empty and whitespace-only files as either an empty file (if no newline is
    present) or as a single newline character (if a newline is present) (#3348)
    (22.12.0)
  - Implicitly concatenated strings used as function args are now wrapped inside
    parentheses (#3307) (22.12.0)
  - Correctly handle trailing commas that are inside a line's leading non-nested parens
    (#3370) (22.12.0)
  - `--skip-string-normalization` / `-S` now prevents docstring prefixes from being
    normalized as expected (#3168) (since 22.8.0)
  - When using `--skip-magic-trailing-comma` or `-C`, trailing commas are stripped from
    subscript expressions with more than 1 element (#3209) (22.8.0)
  - Implicitly concatenated strings inside a list, set, or tuple are now wrapped inside
    parentheses (#3162) (22.8.0)
  - Fix a string merging/split issue when a comment is present in the middle of
    implicitly concatenated strings on its own line (#3227) (22.8.0)
  - Docstring quotes are no longer moved if it would violate the line length limit
    (#3044, #3430) (22.6.0)
  - Parentheses around return annotations are now managed (#2990) (22.6.0)
  - Remove
  unnecessary parentheses around awaited objects (#2991) (22.6.0)
  - Remove unnecessary parentheses in `with` statements (#2926) (22.6.0)
  - Remove trailing newlines after code block open (#3035) (22.6.0)
  - Code cell separators `#%%` are now standardised to `# %%` (#2919) (22.3.0)
  - Remove unnecessary parentheses from `except` statements (#2939) (22.3.0)

- Remove unnecessary parentheses from tuple unpacking in `for` loops (#2945) (22.3.0)
- Avoid magic-trailing-comma in single-element subscripts (#2942) (22.3.0)
- Fix a crash when a colon line is marked between `# fmt: off` and `# fmt: on` (#3439)

Preview style

- Format hex codes in unicode escape sequences in string literals (#2916)
- Add parentheses around `if`-`else` expressions (#2278)
- Improve performance on large expressions that contain many strings (#3467)
- Fix a crash in preview style with assert + parenthesized string (#3415)
- Fix crashes in preview style with walrus operators used in function return annotations and except clauses (#3423)
- Fix a crash in preview advanced string processing where mixed implicitly concatenated regular and f-strings start with an empty span (#3463)
- Fix a crash in preview advanced string processing where a standalone comment is placed before a dict's value (#3469)
- Fix an issue where extra empty lines are added when a decorator has `# fmt: skip` applied or there is a standalone comment between decorators (#3470)
- Do not put the closing quotes in a docstring on a separate line, even if the line is too long (#3430)
- Long values in dict literals are now wrapped in parentheses; correspondingly unnecessary parentheses around short values in dict literals are now removed; long string lambda values are now wrapped in parentheses (#3440)
- Fix two crashes in preview style involving edge cases with docstrings (#3451)
- Exclude string type annotations from improved string processing; fix crash when the return type annotation is stringified and spans across multiple lines (#3462)
- Wrap multiple context managers in parentheses when targeting Python 3.9+ (#3489)
- Fix several crashes in preview style with walrus operators used in `with` statements or tuples (#3473)
- Fix an invalid quote escaping bug in f-string expressions where it produced invalid code. Implicitly concatenated f-strings with different quotes can now be merged or quote-normalized by changing the quotes used in expressions. (#3509)
- Fix crash on `await (yield)` when Black is compiled with mypyc (#3533)

Configuration

- Black now tries to infer its `--target-version` from the project metadata specified in `pyproject.toml` (#3219)

Packaging

- Upgrade mypyc from `0.971` to `0.991` so mypycified _Black_ can be built on armv7 (#3380)
- This also fixes some crashes while using compiled Black with a debug build of CPython
- Drop specific support for the `tomli` requirement on 3.11 alpha releases, working around a bug that would cause the requirement

not to be installed on any non-final
Python releases (#3448)
- Black now depends on `packaging` version `22.0` or later. This is required for new functionality that needs to parse part of the project metadata (#3219)

Output

- Calling `black --help` multiple times will return the same help contents each time (#3516)
- Verbose logging now shows the values of `pyproject.toml` configuration variables (#3392)
- Fix false symlink detection messages in verbose output due to using an incorrect relative path to the project root (#3385)

Integrations

- Move 3.11 CI to normal flow now that all dependencies support 3.11 (#3446)
- Docker: Add new `latest_prerelease` tag automation to follow latest black alpha release on docker images (#3465)

Documentation

- Expand `vim-plug` installation instructions to offer more explicit options (#3468)

22.12.0

Preview style

- Enforce empty lines before classes and functions with sticky leading comments (#3302)
- Reformat empty and whitespace-only files as either an empty file (if no newline is present) or as a single newline character (if a newline is present) (#3348)
- Implicitly concatenated strings used as function args are now wrapped inside parentheses (#3307)
- For assignment statements, prefer splitting the right hand side if the left hand side fits on a single line (#3368)
- Correctly handle trailing commas that are inside a line's leading non-nested parens (#3370)

Configuration

- Fix incorrectly applied `.gitignore` rules by considering the `.gitignore` location and the relative path to the target file (#3338)
- Fix incorrectly ignoring `.gitignore` presence when more than one source directory is specified (#3336)

Parser

- Parsing support has been added for walruses inside generator expression that are passed as function args (for example, `any(match := my_re.match(text) for text in texts)`) (#3327).

Integrations

- Vim plugin: Optionally allow using the system installation of Black via `let g:black_use_virtualenv = 0`(#3309)

22.10.0

Highlights

- Runtime support for Python 3.6 has been removed. Formatting 3.6 code will still be supported until further notice.

Stable style

- Fix a crash when `# fmt: on` is used on a different block level than `# fmt: off` (#3281)

Preview style

- Fix a crash when formatting some dicts with parenthesis-wrapped long string keys (#3262)

Configuration

- `.ipynb_checkpoints` directories are now excluded by default (#3293)
- Add `--skip-source-first-line` / `-x` option to ignore the first line of source code while formatting (#3299)

Packaging

- Executables made with PyInstaller will no longer crash when formatting several files at once on macOS. Native x86-64 executables for macOS are available once again. (#3275)
- Hatchling is now used as the build backend. This will not have any effect for users who install Black with its wheels from PyPI. (#3233)
- Faster compiled wheels are now available for CPython 3.11 (#3276)

Blackd

- Windows style (CRLF) newlines will be preserved (#3257).

Integrations

- Vim plugin: add flag (`g:black_preview`) to enable/disable the preview style (#3246)
- Update GitHub Action to support formatting of Jupyter Notebook files via a `jupyter` option (#3282)
- Update GitHub Action to support use of version specifiers (e.g. `<23`) for Black version (#3265)

22.8.0

Highlights

- Python 3.11 is now supported, except for _blackd_ as aiohttp does not support 3.11 as of publishing (#3234)
- This is the last release that supports running _Black_ on Python 3.6 (formatting 3.6 code will continue to be supported until further notice)
- Reword the stability policy to say that we may, in rare cases, make changes that affect code that was not previously formatted by _Black_ (#3155)

Stable style

- Fix an infinite loop when using `# fmt: on/off` in the middle of an expression or code block (#3158)
- Fix incorrect handling of `# fmt: skip` on colon (`:`) lines (#3148)
- Comments are no longer deleted when a line had spaces removed around power operators (#2874)

Preview style

- Single-character closing docstring quotes are no longer moved to their own line as this is invalid. This was a bug introduced in version 22.6.0. (#3166)
- `--skip-string-normalization` / `-S` now prevents docstring prefixes from being normalized as expected (#3168)
- When using `--skip-magic-trailing-comma` or `-C`, trailing commas are stripped from subscript expressions with more than 1 element (#3209)
- Implicitly concatenated strings inside a list, set, or tuple are now wrapped inside parentheses (#3162)
- Fix a string merging/split issue when a comment is present in the middle of implicitly concatenated strings on its own line (#3227)

Blackd

- `blackd` now supports enabling the preview style via the `X-Preview` header (#3217)

Configuration

- Black now uses the presence

of debug f-strings to detect target version (#3215)
- Fix misdetection of project root and verbose logging of sources in cases involving `--stdin-filename` (#3216)
- Immediate `.gitignore` files in source directories given on the command line are now also respected, previously only `.gitignore` files in the project root and automatically discovered directories were respected (#3237)

Documentation

- Recommend using BlackConnect in IntelliJ IDEs (#3150)

Integrations

- Vim plugin: prefix messages with `Black: ` so it's clear they come from Black (#3194)
- Docker: changed to a /opt/venv installation + added to PATH to be available to non-root users (#3202)

Output

- Change from deprecated `asyncio.get_event_loop()` to create our event loop which removes DeprecationWarning (#3164)
- Remove logging from internal `blib2to3` library since it regularly emits error logs about failed caching that can and should be ignored (#3193)

Parser

- Type comments are now included in the AST equivalence check consistently so accidental deletion raises an error. Though type comments can't be tracked when running on PyPy 3.7 due to standard library limitations. (#2874)

Performance

- Reduce Black's startup time when formatting a single file by 15-30% (#3211)

22.6.0

Style

- Fix unstable formatting involving `#fmt: skip` and `# fmt:skip` comments (notice the lack of spaces) (#2970)

Preview style

- Docstring quotes are no longer moved if it would violate the line length limit (#3044)
- Parentheses around return annotations are now managed (#2990)
- Remove unnecessary parentheses around awaited objects (#2991)
- Remove unnecessary parentheses in `with` statements (#2926)

- Remove trailing newlines after code block open (#3035)

Integrations

- Add `scripts/migrate-black.py` script to ease introduction of Black to a Git project
 (#3038)

Output

- Output Python version and implementation as part of `--version` flag (#2997)

Packaging

- Use `tomli` instead of `tomllib` on Python 3.11 builds where `tomllib` is not
 available (#2987)

Parser

- [PEP 654](https://peps.python.org/pep-0654/#except) syntax (for example,
 `except *ExceptionGroup:`) is now supported (#3016)
- [PEP 646](https://peps.python.org/pep-0646) syntax (for example,
 `Array[Batch, *Shape]` or `def fn(*args: *T) -> None`) is now supported (#3071)

Vim Plugin

- Fix `strtobool` function. It didn't parse true/on/false/off. (#3025)

22.3.0

Preview style

- Code cell separators `#%%` are now standardised to `# %%` (#2919)
- Remove unnecessary parentheses from `except` statements (#2939)
- Remove unnecessary parentheses from tuple unpacking in `for` loops (#2945)
- Avoid magic-trailing-comma in single-element subscripts (#2942)

Configuration

- Do not format `__pypackages__` directories by default (#2836)
- Add support for specifying stable version with `--required-version` (#2832).
- Avoid crashing when the user has
 no homedir (#2814)
- Avoid crashing when md5 is not available (#2905)
- Fix handling of directory junctions on Windows (#2904)

Documentation

- Update pylint config documentation (#2931)

Integrations

- Move test to disable plugin in Vim/Neovim, which speeds up loading (#2896)

Output

- In verbose mode, log when _Black_ is using user-level config (#2861)

Packaging

- Fix Black to work with Click 8.1.0 (#2966)
- On Python 3.11 and newer, use the standard library's `tomllib` instead of `tomli`
 (#2903)
- `black-primer`, the deprecated internal devtool, has been removed and copied to a
 [separate repository](https://github.com/cooperlees/black-primer) (#2924)

Parser

- Black can now parse starred expressions in the target of `for` and `async for`
 statements, e.g `for item in *items_1, *items_2: pass` (#2879).

22.1.0

At long last, _Black_ is no longer a beta product! This is the first non-beta release
and the first release covered by our new
[stability policy](https://black.readthedocs.io/en/stable/the_black_code_style/index.html#stability-policy).

Highlights

- **Remove Python 2 support** (#2740)
- Introduce the `--preview` flag (#2752)

Style

- Deprecate `--experimental-string-processing` and move the functionality under
 `--preview` (#2789)
- For stubs, one blank line between class attributes and methods is now kept if there's
 at least one pre-existing blank line (#2736)
- Black now normalizes string prefix order (#2297)
- Remove spaces around power operators if both operands are simple (#2726)
- Work around bug that causes unstable formatting in some cases in the presence of the
 magic trailing comma (#2807)
- Use parentheses for attribute access on decimal float and int literals (#2799)
- Don't add whitespace for attribute access on hexadecimal, binary, octal, and complex
 literals (#2799)

- Treat blank lines in stubs the same inside top-level `if` statements (#2820)
- Fix unstable formatting with semicolons and arithmetic
 expressions (#2817)
- Fix unstable formatting around magic trailing comma (#2572)

Parser

- Fix mapping cases that contain as-expressions, like `case {"key": 1 | 2 as password}`
 (#2686)
- Fix cases that contain multiple top-level as-expressions, like `case 1 as a, 2 as b`
 (#2716)
- Fix call patterns that contain as-expressions with keyword arguments, like
 `case Foo(bar=baz as quux)` (#2749)
- Tuple unpacking on `return` and `yield` constructs now implies 3.8+ (#2700)
- Unparenthesized tuples on annotated assignments (e.g
 `values: Tuple[int, ...] = 1, 2, 3`) now implies 3.8+ (#2708)
- Fix handling of standalone `match()` or `case()` when there is a trailing newline or a
 comment inside of the parentheses. (#2760)
- `from __future__ import annotations` statement now implies Python 3.7+ (#2690)

Performance

- Speed-up the new backtracking parser about 4X in general (enabled when
 `--target-version` is set to 3.10 and higher). (#2728)
- _Black_ is now compiled with
 [mypyc](https://github.com/mypyc/mypyc) for an overall 2x
 speed-up. 64-bit Windows, MacOS, and Linux (not including musl) are supported. (#1009,
 #2431)

Configuration

- Do not accept bare carriage return line endings in pyproject.toml (#2408)
- Add configuration option (`python-cell-magics`) to format cells with custom magics in
 Jupyter Notebooks (#2744)
- Allow setting custom cache directory on all platforms with environment variable
 `BLACK_CACHE_DIR` (#2739).
- Enable Python 3.10+ by default, without any extra need to specify
 `--target-version=py310`. (#2758)
- Make passing `SRC` or `--code` mandatory and mutually exclusive (#2804)

Output

- Improve error message for invalid regular expression (#2678)
- Improve error message when parsing fails during AST safety check by embedding the
 underlying SyntaxError (#2693)
- No longer color diff headers white as it's unreadable in light themed terminals
 (#2691)
- Text coloring added in the final statistics (#2712)

-
Verbose mode also now describes how a project root was discovered and which paths will be formatted. (#2526)

Packaging

- All upper version bounds on dependencies have been removed (#2718)
- `typing-extensions` is no longer a required dependency in Python 3.10+ (#2772)
- Set `click` lower bound to `8.0.0` (#2791)

Integrations

- Update GitHub action to support containerized runs (#2748)

Documentation

- Change protocol in pip installation instructions to `https://` (#2761)
- Change HTML theme to Furo primarily for its responsive design and mobile support (#2793)
- Deprecate the `black-primer` tool (#2809)
- Document Python support policy (#2819)

21.12b0

Black

- Fix determination of f-string expression spans (#2654)
- Fix bad formatting of error messages about EOF in multi-line statements (#2343)
- Functions and classes in blocks now have more consistent surrounding spacing (#2472)

Jupyter Notebook support

- Cell magics are now only processed if they are known Python cell magics. Earlier, all cell magics were tokenized, leading to possible indentation errors e.g. with `%%writefile`. (#2630)
- Fix assignment to environment variables in Jupyter Notebooks (#2642)

Python 3.10 support

- Point users to using `--target-version py310` if we detect 3.10-only syntax (#2668)
- Fix `match` statements with open sequence subjects, like `match a, b:` or `match a, *b:` (#2639) (#2659)
- Fix `match`/`case` statements that contain `match`/`case` soft keywords multiple times, like `match re.match()` (#2661)
- Fix `case` statements with an inline body (#2665)
- Fix styling of starred expressions inside `match` subject (#2667)
- Fix parser error location on invalid syntax in a `match` statement (#2649)

- Fix Python 3.10 support on platforms without ProcessPoolExecutor (#2631)
- Improve parsing performance on code that uses `match` under `--target-version py310`
 up to ~50% (#2670)

Packaging

- Remove dependency on `regex` (#2644)
 (#2663)

21.11b1

Black

- Bumped regex version minimum to 2021.4.4 to fix Pattern class usage (#2621)

21.11b0

Black

- Warn about Python 2 deprecation in more cases by improving Python 2 only syntax
 detection (#2592)
- Add experimental PyPy support (#2559)
- Add partial support for the match statement. As it's experimental, it's only enabled
 when `--target-version py310` is explicitly specified (#2586)
- Add support for parenthesized with (#2586)
- Declare support for Python 3.10 for running Black (#2562)

Integrations

- Fixed vim plugin with Python 3.10 by removing deprecated distutils import (#2610)
- The vim plugin now parses `skip_magic_trailing_comma` from pyproject.toml (#2613)

21.10b0

Black

- Document stability policy, that will apply for non-beta releases (#2529)
- Add new `--workers` parameter (#2514)
- Fixed feature detection for positional-only arguments in lambdas (#2532)
- Bumped typed-ast version minimum to 1.4.3 for 3.10 compatibility
 (#2519)
- Fixed a Python 3.10 compatibility issue where the loop argument was still being passed
 even though it has been removed (#2580)
- Deprecate Python 2 formatting support (#2523)

Blackd

- Remove dependency on aiohttp-cors (#2500)

- Bump required aiohttp version to 3.7.4 (#2509)

Black-Primer

- Add primer support for --projects (#2555)
- Print primer summary after individual failures (#2570)

Integrations

- Allow to pass `target_version` in the vim plugin (#1319)
- Install build tools in docker file and use multi-stage build to keep the image size down (#2582)

21.9b0

Packaging

- Fix missing modules in self-contained binaries (#2466)
- Fix missing toml extra used during installation (#2475)

21.8b0

Black

- Add support for formatting Jupyter Notebook files (#2357)
- Move from `appdirs` dependency to `platformdirs` (#2375)
- Present a more user-friendly error if .gitignore is invalid (#2414)
- The failsafe for accidentally added backslashes in f-string expressions has been hardened to handle more edge cases during quote normalization (#2437)
- Avoid changing a function return type annotation's type to a tuple by adding a trailing comma (#2384)
- Parsing support has been added for unparenthesized walruses in set literals, set comprehensions, and indices (#2447).
- Pin `setuptools-scm` build-time dependency version (#2457)
- Exclude typing-extensions version 3.10.0.1 due to it being broken on Python 3.10 (#2460)

Blackd

- Replace sys.exit(-1) with raise ImportError as it plays more nicely with tools that scan installed packages (#2440)

Integrations

- The provided pre-commit hooks no longer specify `language_version` to avoid overriding `default_language_version` (#2430)

21.7b0

Black

- Configuration files using TOML features higher than spec v0.5.0 are now supported (#2301)
- Add primer support and test for code piped into black via STDIN (#2315)
- Fix internal error when `FORCE_OPTIONAL_PARENTHESES` feature is enabled (#2332)
- Accept empty stdin (#2346)
- Provide a more useful error when parsing fails during AST safety checks (#2304)

Docker

- Add new `latest_release` tag automation to follow latest black release on docker images (#2374)

Integrations

- The vim plugin now searches upwards from the directory containing the current buffer instead of the current working directory for pyproject.toml. (#1871)
- The vim plugin now reads the correct string normalization option in pyproject.toml (#1869)
- The vim plugin no longer crashes Black when there's boolean values in pyproject.toml (#1869)

21.6b0

Black

- Fix failure caused by `fmt: skip` and indentation (#2281)
- Account for += assignment when deciding whether to split string (#2312)
- Correct max string length calculation when there are string operators (#2292)
- Fixed option usage when using the `--code` flag (#2259)
- Do not call `uvloop.install()` when _Black_ is used as a library (#2303)
- Added `--required-version` option to require a specific version to be running (#2300)
- Fix incorrect custom breakpoint indices when string group contains fake f-strings (#2311)
- Fix regression where `R` prefixes would be lowercased for docstrings (#2285)
- Fix handling of named escapes (`\N{...}`) when `--experimental-string-processing` is used (#2319)

Integrations

- The official Black action now supports choosing what version to use, and supports the major 3 OSes. (#1940)

21.5b2

Black

- A space is no longer inserted into empty docstrings (#2249)
- Fix handling of .gitignore files containing non-ASCII characters on Windows (#2229)
- Respect `.gitignore` files in all levels, not only `root/.gitignore` file (apply `.gitignore` rules like `git` does) (#2225)
- Restored compatibility with Click 8.0 on Python 3.6 when LANG=C used (#2227)
- Add extra uvloop install + import support if in python env (#2258)
- Fix --experimental-string-processing crash when matching parens are not found (#2283)
- Make sure to split lines that start with a string operator (#2286)
- Fix regular expression that black uses to identify f-expressions (#2287)

Blackd

- Add a lower bound for the `aiohttp-cors` dependency. Only 0.4.0 or higher is supported. (#2231)

Packaging

- Release self-contained x86_64 MacOS binaries as part of the GitHub release pipeline (#2198)
- Always build binaries with the latest available Python (#2260)

Documentation

- Add discussion of magic comments to FAQ page (#2272)
- `--experimental-string-processing` will be enabled by default in the future (#2273)
- Fix typos discovered by codespell (#2228)
- Fix Vim plugin installation instructions. (#2235)
- Add new Frequently Asked Questions page (#2247)
- Fix encoding + symlink issues preventing proper build on Windows (#2262)

21.5b1

Black

- Refactor `src/black/__init__.py` into many files (#2206)

Documentation

- Replaced all remaining references to the [`master`](https://github.com/psf/black/tree/main) branch with the [`main`](https://github.com/psf/black/tree/main) branch. Some additional changes in the source code were also made. (#2210)

- Significantly reorganized the documentation to make much more sense. Check them out by heading over to [the stable docs on RTD](https://black.readthedocs.io/en/stable/). (#2174)

21.5b0

Black

- Set `--pyi` mode if `--stdin-filename` ends in `.pyi` (#2169)
- Stop detecting target version as Python 3.9+ with pre-PEP-614 decorators that are being called but with no arguments (#2182)

Black-Primer

- Add `--no-diff` to black-primer to suppress formatting changes (#2187)

21.4b2

Black

- Fix crash if the user configuration directory is inaccessible. (#2158)

- Clarify [circumstances](https://github.com/psf/black/blob/master/docs/the_black_code_style.md#pragmatism) in which _Black_ may change the AST (#2159)

- Allow `.gitignore` rules to be overridden by specifying `exclude` in `pyproject.toml` or on the command line. (#2170)

Packaging

- Install `primer.json` (used by `black-primer` by default) with black. (#2154)

21.4b1

Black

- Fix crash on docstrings ending with "\\ ". (#2142)

- Fix crash when atypical whitespace is cleaned out of dostrings (#2120)

- Reflect the `--skip-magic-trailing-comma` and `--experimental-string-processing` flags in the name of the cache file. Without this fix, changes in these flags would not take effect if the cache had already been populated. (#2131)

- Don't remove necessary parentheses from assignment expression containing assert / return statements. (#2143)

Packaging

- Bump pathspec to >= 0.8.1 to solve invalid .gitignore exclusion handling

21.4b0

Black

- Fixed a rare but annoying formatting instability created by the combination of
 optional trailing commas inserted by `Black` and optional parentheses looking at
 pre-existing "magic" trailing
 commas. This fixes issue #1629 and all of its many many
 duplicates. (#2126)

- `Black` now processes one-line docstrings by stripping leading and trailing spaces,
 and adding a padding space when needed to break up """". (#1740)

- `Black` now cleans up leading non-breaking spaces in comments (#2092)

- `Black` now respects `--skip-string-normalization` when normalizing multiline
 docstring quotes (#1637)

- `Black` no longer removes all empty lines between non-function code and decorators
 when formatting typing stubs. Now `Black` enforces a single empty line. (#1646)

- `Black` no longer adds an incorrect space after a parenthesized assignment expression
 in if/while statements (#1655)

- Added `--skip-magic-trailing-comma` / `-C` to avoid using trailing commas as a reason
 to split lines (#1824)

- fixed a crash when PWD=/ on POSIX (#1631)

- fixed "I/O operation on closed file" when using --diff (#1664)

- Prevent coloured diff output being interleaved with multiple files (#1673)

-
 Added support for PEP 614 relaxed decorator syntax on python 3.9 (#1711)

- Added parsing support for unparenthesized tuples and yield expressions in annotated
 assignments (#1835)

- added `--extend-exclude` argument (PR #2005)

- speed up caching by avoiding pathlib (#1950)

- `--diff` correctly indicates when a file doesn't end in a newline (#1662)

- Added `--stdin-filename` argument to allow stdin to respect `--force-exclude` rules (#1780)

- Lines ending with `fmt: skip` will now be not formatted (#1800)

- PR #2053: Black no longer relies on typed-ast for Python 3.8 and higher

- PR #2053: Python 2 support is now optional, install with `python3 -m pip install black[python2]` to maintain support.

- Exclude `venv` directory by default (#1683)

- Fixed "Black produced code that is not equivalent to the source" when formatting Python 2 docstrings (#2037)

Packaging

- Self-contained native _Black_ binaries are now provided for releases via GitHub Releases (#1743)

20.8b1

Packaging

- explicitly depend on Click 7.1.2 or newer as `Black` no longer works with versions older than 7.0

20.8b0

Black

- re-implemented support for explicit trailing commas: now it works consistently within any bracket pair, including nested structures (#1288 and duplicates)

- `Black` now reindents docstrings when reindenting code around it (#1053)

- `Black` now shows colored diffs (#1266)

- `Black` is now packaged using 'py3' tagged wheels (#1388)

- `Black` now supports Python 3.8 code, e.g. star expressions in return statements (#1121)

- `Black` no longer normalizes capital R-string prefixes as those have a community-accepted meaning (#1244)

- `Black` now uses exit code 2 when specified configuration file doesn't exit (#1361)

- `Black` now works on AWS Lambda (#1141)

- added `--force-exclude` argument (#1032)

- removed deprecated `--py36` option (#1236)

- fixed `--diff` output when EOF is encountered (#526)

- fixed `# fmt:
off` handling around decorators (#560)

- fixed unstable formatting with some `# type: ignore` comments (#1113)

- fixed invalid removal on organizing brackets followed by indexing (#1575)

- introduced `black-primer`, a CI tool that allows us to run regression tests against
existing open source users of Black (#1402)

- introduced property-based fuzzing to our test suite based on Hypothesis and
Hypothersmith (#1566)

- implemented experimental and disabled by default long string rewrapping (#1132),
hidden under a `--experimental-string-processing` flag while it's being worked on;
this is an undocumented and unsupported feature, you lose Internet points for
depending on it (#1609)

Vim plugin

- prefer virtualenv packages over global packages (#1383)

19.10b0

- added support for PEP 572 assignment expressions (#711)

- added support for PEP 570 positional-only arguments (#943)

- added support for async generators (#593)

- added support for pre-splitting collections
by putting an explicit trailing comma
inside (#826)

- added `black -c` as a way to format code passed from the command line (#761)

- --safe now works with Python 2 code (#840)

- fixed grammar selection for Python 2-specific code (#765)

- fixed feature detection for trailing commas in function definitions and call sites (#763)

- `# fmt: off`/`# fmt: on` comment pairs placed multiple times within the same block of code now behave correctly (#1005)

- _Black_ no longer crashes on Windows machines with more than 61 cores (#838)

- _Black_ no longer crashes on standalone comments prepended with a backslash (#767)

- _Black_ no longer crashes on `from` ... `import` blocks with comments (#829)

- _Black_ no longer crashes on Python 3.7 on some platform configurations (#494)

- _Black_ no longer fails on comments in from-imports (#671)

- _Black_ no longer fails when the file starts with a backslash (#922)

- _Black_ no longer merges regular comments with type comments (#1027)

- _Black_
no longer splits long lines that contain type comments (#997)

- removed unnecessary parentheses around `yield` expressions (#834)

- added parentheses around long tuples in unpacking assignments (#832)

- added parentheses around complex powers when they are prefixed by a unary operator (#646)

- fixed bug that led _Black_ format some code with a line length target of 1 (#762)

- _Black_ no longer introduces quotes in f-string subexpressions on string boundaries (#863)

- if _Black_ puts parenthesis around a single expression, it moves comments to the wrapped expression instead of after the brackets (#872)

- `blackd` now returns the version of _Black_ in the response headers (#1013)

- `blackd` can now output the diff of formats on source code when the `X-Diff` header is provided (#969)

19.3b0

- new option `--target-version` to control which Python versions _Black_-formatted code should target (#618)

- deprecated `--py36` (use `--target-version=py36` instead) (#724)

- _Black_ no longer normalizes numeric literals to include `_` separators (#696)

- long `del` statements are now split into multiple lines (#698)

- type comments are no longer mangled in function signatures

- improved performance of formatting deeply nested data structures (#509)

- _Black_ now properly formats multiple files in parallel on Windows (#632)

- _Black_ now creates cache files atomically which allows it to be used in parallel pipelines (like `xargs -P8`) (#673)

- _Black_ now correctly indents comments in files that were previously formatted with tabs (#262)

- `blackd` now supports CORS (#622)

18.9b0

- numeric literals are now formatted by _Black_ (#452, #461, #464, #469):

  - numeric literals are normalized to include `_` separators on Python 3.6+ code

  - added `--skip-numeric-underscore-normalization` to disable the above behavior and leave numeric underscores as they were in the input

  - code with `_` in numeric literals is recognized as Python 3.6+

  - most letters in numeric literals are lowercased (e.g., in `1e10`, `0x01`)

  - hexadecimal digits are always uppercased (e.g. `0xBADC0DE`)

- added `blackd`, see [its documentation](https://github.com/psf/black/blob/18.9b0/README.md#blackd) for more info (#349)

- adjacent string literals are now correctly split into multiple lines (#463)

- trailing comma is now added to single imports that don't fit on a line (#250)

- cache is now populated when `--check` is successful for a file which speeds up consecutive checks of properly formatted unmodified files (#448)

- whitespace at the beginning of the file is now removed (#399)

- fixed mangling [pweave](http://mpastell.com/pweave/) and [Spyder IDE](https://www.spyder-ide.org/) special comments (#532)

- fixed unstable formatting when unpacking big tuples (#267)

- fixed parsing of `__future__` imports with renames (#389)

- fixed scope of `# fmt: off` when directly preceding `yield` and other nodes (#385)

- fixed formatting of lambda expressions with default arguments (#468)

- fixed `async for` statements: _Black_ no longer breaks them into separate lines (#372)

- note: the Vim plugin stopped registering `,=` as a default chord as it turned out to be a bad idea (#415)

18.6b4

- hotfix: don't freeze when multiple comments directly precede `# fmt: off` (#371)

18.6b3

- typing stub files (`.pyi`) now have blank lines added after constants (#340)

- `# fmt: off` and `# fmt: on` are now much more dependable:

  - they now work also within bracket pairs (#329)

  - they now correctly work across function/class boundaries (#335)

  - they now work when an indentation block starts with empty lines or misaligned comments (#334)

- made Click not fail on invalid environments; note that Click is right but the likelihood we'll need to access non-ASCII file paths when dealing with Python source code is low (#277)

- fixed improper formatting of f-strings with quotes inside interpolated expressions (#322)

- fixed unnecessary slowdown when long list literals where found in a file

- fixed unnecessary slowdown on AST nodes with very many siblings

- fixed cannibalizing backslashes during string normalization

- fixed a crash due to symbolic links pointing outside of the project directory (#338)

18.6b2

- added `--config` (#65)

- added `-h` equivalent to `--help` (#316)

- fixed improper unmodified file caching when `-S` was used

- fixed extra space in string unpacking (#305)

- fixed formatting of empty triple quoted strings (#313)

- fixed unnecessary slowdown in comment placement calculation on lines without comments

18.6b1

- hotfix: don't output human-facing information on stdout (#299)

- hotfix: don't output cake emoji on non-zero return code (#300)

18.6b0

- added `--include` and `--exclude` (#270)

- added `--skip-string-normalization` (#118)

- added `--verbose` (#283)

- the header output in `--diff` now actually conforms to the unified diff spec

- fixed long trivial assignments being wrapped in unnecessary parentheses (#273)

- fixed unnecessary parentheses when a line contained multiline strings (#232)

- fixed stdin handling not working correctly if an old version of Click was used (#276)

- _Black_ now preserves line endings when formatting a file in place (#258)

18.5b1

- added `--pyi` (#249)

- added `--py36` (#249)

- Python grammar pickle caches are stored with the formatting caches, making _Black_ work in environments where site-packages is not user-writable (#192)

- _Black_ now enforces a PEP 257 empty line after a class-level docstring (and/or fields) and the first method

- fixed invalid code produced when standalone comments were present in a trailer that was omitted from line splitting on a large expression (#237)

- fixed optional parentheses being removed within `# fmt: off` sections (#224)

- fixed invalid code produced when stars in very long imports were incorrectly wrapped in optional parentheses
(#234)

- fixed unstable formatting when inline comments were moved around in a trailer that was omitted from line splitting on a large expression (#238)

- fixed extra empty line between a class declaration and the first method if no class docstring or fields are present (#219)

- fixed extra empty line between a function signature and an inner function or inner class (#196)

18.5b0

- call chains are now formatted according to the [fluent interfaces](https://en.wikipedia.org/wiki/Fluent_interface) style (#67)

- data structure literals (tuples, lists, dictionaries, and sets) are now also always exploded like imports when they don't fit in a single line (#152)

- slices are now formatted according to PEP 8 (#178)

- parentheses are now also managed automatically on the right-hand side of assignments and return statements (#140)

- math operators now use their respective priorities for delimiting multiline expressions (#148)

- optional parentheses are now omitted on expressions that start or end with a bracket and only contain a single operator (#177)

- empty parentheses in a class definition are now removed (#145, #180)

- string prefixes are now standardized to lowercase and `u` is removed on Python 3.6+ only code and Python 2.7+ code with the `unicode_literals` future import (#188, #198, #199)

- typing stub files (`.pyi`) are now formatted in a style that is consistent with PEP 484 (#207, #210)

- progress when reformatting many files is now reported incrementally

- fixed trailers (content with brackets) being unnecessarily exploded into their own lines after a dedented closing bracket (#119)

- fixed an invalid trailing comma sometimes left in imports (#185)

- fixed non-deterministic formatting when multiple pairs of removable parentheses were used (#183)

- fixed multiline strings being unnecessarily wrapped in optional parentheses in long assignments (#215)

- fixed not splitting long from-imports with only a single name

- fixed Python 3.6+ file discovery by also looking at function calls with unpacking. This fixed non-deterministic formatting if trailing commas where used both in function signatures with stars and function calls with stars but the former would be reformatted to a single line.

- fixed crash on dealing with optional parentheses (#193)

- fixed "is", "is not", "in", and "not in" not considered operators for splitting purposes

- fixed crash when dead symlinks where encountered

18.4a4

- don't populate the cache on `--check` (#175)

18.4a3

- added a "cache"; files already reformatted that haven't changed on disk won't be reformatted again (#109)

- `--check` and `--diff` are no longer mutually exclusive (#149)

- generalized star expression handling, including double stars; this fixes

multiplication making expressions "unsafe" for trailing commas (#132)

- _Black_ no longer enforces putting empty lines behind control flow statements (#90)

- _Black_ now splits imports
like "Mode 3 + trailing comma" of isort (#127)

- fixed comment indentation when a standalone comment closes a block (#16, #32)

- fixed standalone comments receiving extra empty lines if immediately preceding a
class, def, or decorator (#56, #154)

- fixed `--diff` not showing entire path (#130)

- fixed parsing of complex expressions after star and double stars in function calls
(#2)

- fixed invalid splitting on comma in lambda arguments (#133)

- fixed missing splits of ternary expressions (#141)

18.4a2

- fixed parsing of unaligned standalone comments (#99, #112)

- fixed placement of dictionary unpacking inside dictionary literals (#111)

- Vim plugin now works on Windows, too

- fixed unstable formatting when encountering unnecessarily escaped quotes in a string
(#120)

18.4a1

- added `--quiet` (#78)

- added automatic parentheses management (#4)

- added [pre-commit](https://pre-commit.com) integration (#103, #104)

- fixed reporting on `--check` with multiple
files (#101, #102)

- fixed removing backslash escapes from raw strings (#100, #105)

18.4a0

- added `--diff` (#87)

- add line breaks before all delimiters, except in cases like commas, to better comply with PEP 8 (#73)

- standardize string literals to use double quotes (almost) everywhere (#75)

- fixed handling of standalone comments within nested bracketed expressions; _Black_ will no longer produce super long lines or put all standalone comments at the end of the expression (#22)

- fixed 18.3a4 regression: don't crash and burn on empty lines with trailing whitespace (#80)

- fixed 18.3a4 regression: `# yapf: disable` usage as trailing comment would cause _Black_ to not emit the rest of the file (#95)

- when CTRL+C is pressed while formatting many files, _Black_ no longer freaks out with a flurry of asyncio-related exceptions

- only allow up to two empty lines on module level and only single empty lines within functions (#74)

18.3a4

- `# fmt: off` and `# fmt: on` are implemented (#5)

- automatic detection of deprecated Python 2 forms of print statements and exec statements in the formatted file (#49)

- use proper spaces for complex expressions in default values of typed function arguments (#60)

- only return exit code 1 when --check is used (#50)

- don't remove single trailing commas from square bracket indexing (#59)

- don't omit whitespace if the previous factor leaf wasn't a math operator (#55)

- omit extra space in kwarg unpacking if it's the first argument (#46)

- omit extra space in [Sphinx auto-attribute comments](http://www.sphinx-doc.org/en/stable/ext/autodoc.html#directive-autoattribute) (#68)

18.3a3

- don't remove single empty lines outside of bracketed expressions (#19)

- added ability to pipe formatting from stdin to stdin (#25)

- restored ability to format code with legacy usage of `async` as a name (#20, #42)

- even better handling of numpy-style array indexing (#33, again)

18.3a2

- changed positioning
 of binary operators to occur at beginning of lines instead of at
 the end, following
 [a recent change to PEP
8](https://github.com/python/peps/commit/c59c4376ad233a62ca4b3a6060c81368bd21e85b)
 (#21)

- ignore empty bracket pairs while splitting. This avoids very weirdly looking
 formattings (#34, #35)

- remove a trailing comma if there is a single argument to a call

- if top level functions were separated by a comment, don't put four empty lines after
 the upper function

- fixed unstable formatting of newlines with imports

- fixed unintentional folding of post scriptum standalone comments into last statement
 if it was a simple statement (#18, #28)

- fixed missing space in numpy-style array indexing (#33)

- fixed spurious space after star-based unary expressions (#31)

18.3a1

- added `--check`

- only put trailing commas in function signatures and calls if it's safe to do so. If
 the file is Python 3.6+ it's always safe, otherwise only safe if there are no
 `*args`
 or `**kwargs` used in the signature or call. (#8)

- fixed invalid spacing of dots in relative imports (#6, #13)

- fixed invalid splitting after comma on unpacked variables in for-loops (#23)

- fixed spurious space in parenthesized set expressions (#7)

- fixed spurious space after opening parentheses and in default arguments (#14, #17)

- fixed spurious space after unary operators when the operand was a complex expression (#15)

18.3a0

- first published version, Happy Day 2018!

- alpha quality

- date-versioned (see: <https://calver.org/>)

```
# Note: don't use this config for your own repositories. Instead, see
# "Version control integration" in docs/integrations/source_version_control.md
exclude: ^(profiling/|tests/data/)
repos:
 - repo: local
   hooks:
     - id: check-pre-commit-rev-in-example
       name: Check pre-commit rev in example
       language: python
       entry: python -m scripts.check_pre_commit_rev_in_example
       files: '(CHANGES\.md|source_version_control\.md)$'
       additional_dependencies:
         &version_check_dependencies [
           commonmark==0.9.1,
           pyyaml==6.0.1,
           beautifulsoup4==4.9.3,
         ]

     - id: check-version-in-the-basics-example
       name: Check black version in the basics example
       language: python
       entry: python -m scripts.check_version_in_basics_example
       files: '(CHANGES\.md|the_basics\.md)$'
       additional_dependencies: *version_check_dependencies

 - repo: https://github.com/pycqa/isort
   rev: 5.13.2
   hooks:
     - id: isort

 - repo: https://github.com/pycqa/flake8
   rev: 7.1.1
   hooks:
     - id: flake8
       additional_dependencies:
         - flake8-bugbear==24.2.6
```

```
        - flake8-comprehensions
        - flake8-simplify
      exclude: ^src/blib2to3/

- repo: https://github.com/pre-commit/mirrors-mypy
  rev: v1.14.1
  hooks:
    - id: mypy
      exclude: ^(docs/conf.py|scripts/generate_schema.py)$
      args: []
      additional_dependencies: &mypy_deps
        - types-PyYAML
        - tomli >= 0.2.6, < 2.0.0
        - click >= 8.1.0, != 8.1.4, != 8.1.5
        - packaging >= 22.0
        - platformdirs >= 2.1.0
        - pytest
        - hypothesis
        - aiohttp >= 3.7.4
        - types-commonmark
        - urllib3
        - hypothesmith
    - id: mypy
      name: mypy (Python 3.10)
      files: scripts/generate_schema.py
      args: ["--python-version=3.10"]
      additional_dependencies: *mypy_deps

- repo: https://github.com/pre-commit/mirrors-prettier
   rev: v4.0.0-alpha.8
  hooks:
    - id: prettier
      types_or: [css, javascript, html, json, yaml]
      exclude: \.github/workflows/diff_shades\.yml

- repo: https://github.com/pre-commit/pre-commit-hooks
  rev: v5.0.0
  hooks:
    - id: end-of-file-fixer
    - id: trailing-whitespace

ci:
 autoupdate_schedule: quarterly
# Note that we recommend using https://github.com/psf/black-pre-commit-mirror instead
# This will work about 2x as fast as using the hooks in this repository
- id: black
 name: black
 description: "Black: The uncompromising Python code formatter"
```

```
 entry: black
 language: python
 minimum_pre_commit_version: 2.9.2
 require_serial: true
 types_or: [python, pyi]
- id: black-jupyter
 name: black-jupyter
 description:
   "Black: The uncompromising Python code formatter (with Jupyter Notebook support)"
 entry: black
 language: python
 minimum_pre_commit_version: 2.9.2
 require_serial: true
 types_or: [python, pyi, jupyter]
 additional_dependencies: [".[jupyter]"]
--- [Deterministic header]
+++ [Deterministic header]
@@ -1,8 +1,8 @@
...
-'some_string'
-b'\\xa3'
+"some_string"
+b"\\xa3"
Name
None
True
False
1
@@ -21,99 +21,135 @@
Name1 or (Name2 and Name3) or Name4
Name1 or Name2 and Name3 or Name4
v1 << 2
1 >> v2
1 % finished
-1 + v2 - v3 * 4 ^ 5 ** v6 / 7 // 8
-((1 + v2) - (v3 * 4)) ^ (((5 ** v6) / 7) // 8)
+1 + v2 - v3 * 4 ^ 5**v6 / 7 // 8
+((1 + v2) - (v3 * 4)) ^ (((5**v6) / 7) // 8)
not great
~great
+value
-1
~int and not v1 ^ 123 + v2 | True
(~int) and (not ((v1 ^ (123 + v2)) | True))
-+really ** -confusing ** ~operator ** -precedence
-flags & ~ select.EPOLLIN and waiters.write_task is not None
++(really ** -(confusing ** ~(operator**-precedence)))
+flags & ~select.EPOLLIN and waiters.write_task is not None
```

```
lambda arg: None
lambda a=True: a
lambda a, b, c=True: a
-lambda a, b, c=True, *, d=(1 << v2), e='str': a
-lambda a, b, c=True, *vararg, d=(v1 << 2), e='str', **kwargs: a + b
+lambda a, b, c=True, *, d=(1 << v2), e="str":
 a
+lambda a, b, c=True, *vararg, d=(v1 << 2), e="str", **kwargs: a + b
manylambdas = lambda x=lambda y=lambda z=1: z: y(): x()
-foo = (lambda port_id, ignore_missing: {"port1": port1_resource, "port2": port2_resource}[port_id])
+foo = lambda port_id, ignore_missing: {
+    "port1": port1_resource,
+    "port2": port2_resource,
+}[port_id]
1 if True else 2
str or None if True else str or bytes or None
(str or None) if True else (str or bytes or None)
str or None if (1 if True else 2) else str or bytes or None
(str or None) if (1 if True else 2) else (str or bytes or None)
-((super_long_variable_name or None) if (1 if super_long_test_name else 2) else (str or bytes or None))
-{'2.7': dead, '3.7': (long_live or die_hard)}
-{'2.7': dead, '3.7': (long_live or die_hard), **{'3.6': verygood}}
+(
+    (super_long_variable_name or None)
+    if (1 if super_long_test_name else 2)
+    else (str or bytes or None)
+)
+{"2.7": dead, "3.7": (long_live or die_hard)}
+{"2.7": dead, "3.7": (long_live
 or die_hard), **{"3.6": verygood}}
{**a, **b, **c}
-{'2.7', '3.6', '3.7', '3.8', '3.9', ('4.0' if gilectomy else '3.10')}
-({'a': 'b'}, (True or False), (+value), 'string', b'bytes') or None
+{"2.7", "3.6", "3.7", "3.8", "3.9", ("4.0" if gilectomy else "3.10")}
+({"a": "b"}, (True or False), (+value), "string", b"bytes") or None
()
(1,)
(1, 2)
(1, 2, 3)
[]
[1, 2, 3, 4, 5, 6, 7, 8, 9, (10 or A), (11 or B), (12 or C)]
-[1, 2, 3,]
+[
+    1,
+    2,
+    3,
+]
[*a]
```

```
[*range(10)]
-[*a, 4, 5,]
-[4, *a, 5,]
-[this_is_a_very_long_variable_which_will_force_a_delimiter_split, element, another, *more]
+[
+    *a,
+    4,
+    5,
+]
+[
+    4,
+    *a,
+    5,
+]
+[
+    this_is_a_very_long_variable_which_will_force_a_delimiter_split,
+    element,
+    another,
+    *more,
+]
{i for i in (1, 2, 3)}
-{(i ** 2) for i in (1, 2, 3)}
-{(i ** 2) for i, _ in ((1, 'a'), (2, 'b'), (3, 'c'))}
-{((i ** 2) + j) for i in (1, 2, 3) for j in (1, 2, 3)}
+{(i**2) for i in (1, 2, 3)}
+{(i**2) for
 i, _ in ((1, "a"), (2, "b"), (3, "c"))}
+{((i**2) + j) for i in (1, 2, 3) for j in (1, 2, 3)}
[i for i in (1, 2, 3)]
-[(i ** 2) for i in (1, 2, 3)]
-[(i ** 2) for i, _ in ((1, 'a'), (2, 'b'), (3, 'c'))]
-[((i ** 2) + j) for i in (1, 2, 3) for j in (1, 2, 3)]
+[(i**2) for i in (1, 2, 3)]
+[(i**2) for i, _ in ((1, "a"), (2, "b"), (3, "c"))]
+[((i**2) + j) for i in (1, 2, 3) for j in (1, 2, 3)]
{i: 0 for i in (1, 2, 3)}
-{i: j for i, j in ((1, 'a'), (2, 'b'), (3, 'c'))}
+{i: j for i, j in ((1, "a"), (2, "b"), (3, "c"))}
{a: b * 2 for a, b in dictionary.items()}
{a: b * -2 for a, b in dictionary.items()}
-{k: v for k, v in
this_is_a_very_long_variable_which_will_cause_a_trailing_comma_which_breaks_the_comprehension}
+{
+    k: v
+    for k, v in
this_is_a_very_long_variable_which_will_cause_a_trailing_comma_which_breaks_the_comprehension
+}
Python3 > Python2 > COBOL
```

```
Life is Life
call()
call(arg)
-call(kwarg='hey')
-call(arg, kwarg='hey')
-call(arg, another, kwarg='hey', **kwargs)
-call(this_is_a_very_long_variable_which_will_force_a_delimiter_split,
 arg, another, kwarg='hey', **kwargs)  # note: no trailing comma pre-3.6
+call(kwarg="hey")
+call(arg, kwarg="hey")
+call(arg, another, kwarg="hey", **kwargs)
+call(
+    this_is_a_very_long_variable_which_will_force_a_delimiter_split,
+    arg,
+    another,
+    kwarg="hey",
+    **kwargs
+)  # note: no trailing comma pre-3.6
call(*gidgets[:2])
call(a, *gidgets[:2])
call(**self.screen_kwargs)
call(b, **self.screen_kwargs)
lukasz.langa.pl
call.me(maybe)
-1 .real
-1.0 .real
+(1).real
+(1.0).real
...._class__
list[str]
dict[str, int]
tuple[str, ...]
+tuple[str, int, float, dict[str, int]]
tuple[
-    str, int, float, dict[str, int]
-]
-tuple[str, int, float, dict[str, int],]
+    str,
+    int,
+    float,
+    dict[str, int],
+]
very_long_variable_name_filters: t.List[
    t.Tuple[str, t.Union[str, t.List[t.Optional[str]]]],
]
xxxx_xxxxx_xxxx_xxx: Callable[..., List[SomeClass]] = classmethod(  # type:
 ignore
    sync(async_xxxx_xxx_xxxx_xxxxx_xxxx_xxx.__func__)
```

```
)
xxxx_xxx_xxxx_xxxxx_xxxx_xxx: Callable[..., List[SomeClass]] = classmethod(  # type: ignore
    sync(async_xxxx_xxx_xxxx_xxxxx_xxxx_xxx.__func__)
)
-xxxx_xxx_xxxx_xxxxx_xxxx_xxx: Callable[
-    ..., List[SomeClass]
-] = classmethod(sync(async_xxxx_xxx_xxxx_xxxxx_xxxx_xxx.__func__))  # type: ignore
+xxxx_xxx_xxxx_xxxxx_xxxx_xxx: Callable[..., List[SomeClass]] = classmethod(
+    sync(async_xxxx_xxx_xxxx_xxxxx_xxxx_xxx.__func__)
+)  # type: ignore
slice[0]
slice[0:1]
slice[0:1:2]
slice[:]
slice[:-1]
@@ -137,118 +173,199 @@
numpy[-(c + 1) :, d]
numpy[:, l[-2]]
numpy[:, ::-1]
numpy[np.newaxis, :]
(str or None) if (sys.version_info[0] > (3,)) else (str or bytes or None)
-{'2.7': dead, '3.7': long_live or die_hard}
-{'2.7', '3.6', '3.7', '3.8', '3.9', '4.0' if gilectomy else '3.10'}
+{"2.7": dead, "3.7": long_live or die_hard}
+{"2.7", "3.6", "3.7", "3.8", "3.9", "4.0" if gilectomy else "3.10"}
[1, 2, 3, 4, 5, 6,
 7, 8, 9, 10 or A, 11 or B, 12 or C]
(SomeName)
SomeName
(Good, Bad, Ugly)
(i for i in (1, 2, 3))
-((i ** 2) for i in (1, 2, 3))
-((i ** 2) for i, _ in ((1, 'a'), (2, 'b'), (3, 'c')))
-(((i ** 2) + j) for i in (1, 2, 3) for j in (1, 2, 3))
+((i**2) for i in (1, 2, 3))
+((i**2) for i, _ in ((1, "a"), (2, "b"), (3, "c")))
+(((i**2) + j) for i in (1, 2, 3) for j in (1, 2, 3))
(*starred,)
-{"id": "1","type": "type","started_at": now(),"ended_at": now() + timedelta(days=10),"priority":
1,"import_session_id": 1,**kwargs}
+{
+    "id": "1",
+    "type": "type",
+    "started_at": now(),
+    "ended_at": now() + timedelta(days=10),
+    "priority": 1,
+    "import_session_id": 1,
+    **kwargs,
```

```
+}
a = (1,)
-b = 1,
+b = (1,)
c = 1
d = (1,) + a + (2,)
e = (1,).count(1)
f = 1, *range(10)
g = 1, *"ten"
-what_is_up_with_those_new_coord_names = (coord_names + set(vars_to_create)) + set(vars_to_remove)
-what_is_up_with_those_new_coord_names = (coord_names | set(vars_to_create)) - set(vars_to_remove)
-result
 = session.query(models.Customer.id).filter(models.Customer.account_id == account_id, models.Customer.email ==
email_address).order_by(models.Customer.id.asc()).all()
-result = session.query(models.Customer.id).filter(models.Customer.account_id == account_id,
models.Customer.email == email_address).order_by(models.Customer.id.asc(),).all()
+what_is_up_with_those_new_coord_names = (coord_names + set(vars_to_create)) + set(
+    vars_to_remove
+)
+what_is_up_with_those_new_coord_names = (coord_names | set(vars_to_create)) - set(
+    vars_to_remove
+)
+result = (
+    session.query(models.Customer.id)
+    .filter(
+        models.Customer.account_id == account_id, models.Customer.email == email_address
+    )
+    .order_by(models.Customer.id.asc())
+    .all()
+)
+result = (
+    session.query(models.Customer.id)
+    .filter(
+        models.Customer.account_id == account_id, models.Customer.email == email_address
+    )
+    .order_by(
+        models.Customer.id.asc(),
+
    )
+    .all()
+)
 = set()
authors.ukasz.say_thanks()
mapping = {
    A: 0.25 * (10.0 / 12),
    B: 0.1 * (10.0 / 12),
    C: 0.1 * (10.0 / 12),
    D: 0.1 * (10.0 / 12),
```

```
}

+
def gen():
    yield from outside_of_generator
-    a = (yield)
-    b = ((yield))
-    c = (((yield)))
+    a = yield
+    b = yield
+    c = yield
+

async def f():
    await some.complicated[0].call(with_args=(True or (1 is not 1)))
-print(* [] or [1])
+
+
+print(*[] or [1])
print(**{1: 3} if False else {x: x for x in range(3)})
-print(* lambda x: x)
-assert(not Test),("Short message")
-assert this is ComplexTest and not requirements.fit_in_a_single_line(force=False), "Short message"
-assert(((parens is TooMany)))
-for x, in (1,), (2,), (3,): ...
-for y in (): ...
-for z in (i for i in (1, 2, 3)): ...
-for i in (call()): ...
-for j in (1 + (2 + 3)): ...
-while(this and that): ...
-for addr_family, addr_type, addr_proto, addr_canonname, addr_sockaddr in socket.getaddrinfo('google.com',
 'http'):
+print(*lambda x: x)
+assert not Test, "Short message"
+assert this is ComplexTest and not requirements.fit_in_a_single_line(
+    force=False
+), "Short message"
+assert parens is TooMany
+for (x,) in (1,), (2,), (3,):
+    ...
+for y in ():
+    ...
+for z in (i for i in (1, 2, 3)):
+    ...
+for i in call():
+    ...
+for j in 1 + (2 + 3):
+    ...
```

```
+while this and that:
+    ...
+for (
+    addr_family,
+    addr_type,
+    addr_proto,
+    addr_canonname,
+    addr_sockaddr,
+) in socket.getaddrinfo("google.com", "http"):
    pass
-a = aaaa.bbbb.cccc.dddd.eeee.ffff.gggg.hhhh.iiii.jjjj.kkkk.llll.mmmm.nnnn.oooo.pppp in
qqqq.rrrr.ssss.tttt.uuuu.vvvv.xxxx.yyyy.zzzz
-a = aaaa.bbbb.cccc.dddd.eeee.ffff.gggg.hhhh.iiii.jjjj.kkkk.llll.mmmm.nnnn.oooo.pppp not in
qqqq.rrrr.ssss.tttt.uuuu.vvvv.xxxx.yyyy.zzzz
-a = aaaa.bbbb.cccc.dddd.eeee.ffff.gggg.hhhh.iiii.jjjj.kkkk.llll.mmmm.nnnn.oooo.pppp is
qqqq.rrrr.ssss.tttt.uuuu.vvvv.xxxx.yyyy.zzzz
-a = aaaa.bbbb.cccc.dddd.eeee.ffff.gggg.hhhh.iiii.jjjj.kkkk.llll.mmmm.nnnn.oooo.pppp
 is not qqqq.rrrr.ssss.tttt.uuuu.vvvv.xxxx.yyyy.zzzz
-if (
-    threading.current_thread() != threading.main_thread() and
-    threading.current_thread() != threading.main_thread() or
-    signal.getsignal(signal.SIGINT) != signal.default_int_handler
-):
-    return True
-if (
-    aaaa
```

```
-):
-    return True
-if (
-    aaaa
```

```
+if (
+    aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
+
    | aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
+):
+    return True
+if (
+    aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
+    & aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
+):
+    return True
+if (
+    aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
+    + aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
+):
+    return True
+if (
+    aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
+    - aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
+):
+    return True
+if (
+    aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
+    * aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
+):
+    return True
+if (
+    aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
+    / aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
+):
+    return True
+if (
+    ~aaaa.a + aaaa.b - aaaa.c * aaaa.d
 / aaaa.e
+    | aaaa.f & aaaa.g % aaaa.h ^ aaaa.i << aaaa.k >> aaaa.l**aaaa.m // aaaa.n
+):
+    return True
+if (
+    ~aaaaaaaa.a + aaaaaaaa.b - aaaaaaaa.c @ aaaaaaaa.d / aaaaaaaa.e
+    | aaaaaaaa.f & aaaaaaaa.g % aaaaaaaa.h
+    ^ aaaaaaaa.i << aaaaaaaa.k >> aaaaaaaa.l**aaaaaaaa.m // aaaaaaaa.n
+):
+    return True
+if (
+    ~aaaaaaaaaaaaaaaa.a
+    + aaaaaaaaaaaaaaaa.b
+    - aaaaaaaaaaaaaaaa.c * aaaaaaaaaaaaaaaa.d @ aaaaaaaaaaaaaaaa.e
+    | aaaaaaaaaaaaaaaa.f & aaaaaaaaaaaaaaaa.g % aaaaaaaaaaaaaaaa.h
```

```
+    ^ aaaaaaaaaaaaaaaa.i
+    << aaaaaaaaaaaaaaaa.k
+    >> aaaaaaaaaaaaaaaa.l**aaaaaaaaaaaaaaaa.m // aaaaaaaaaaaaaaaa.n
+):
+    return True
+(
+    aaaaaaaaaaaaaaaa
+    + aaaaaaaaaaaaaaaa
+    - aaaaaaaaaaaaaaaa
+    * (aaaaaaaaaaaaaaaa + aaaaaaaaaaaaaaaa)
+    / (aaaaaaaaaaaaaaaa + aaaaaaaaaaaaaaaa + aaaaaaaaaaaaaaaa)
+)
aaaaaaaaaaaaaaaa + aaaaaaaaaaaaaaaa
-aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa >>
aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
 << aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
+(
+    aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
+    >> aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
+    << aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
+)
bbbb >> bbbb * bbbb
-aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa ^bbbb.a &
aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa^aaaaaaaaaaaaaaaaaaaa
```

Usage

`blackd` is not packaged alongside _Black_ by default because it has additional dependencies. You will need to execute `pip install 'black[d]'` to install it.

You can start the server on the default port, binding only to the local interface by running `blackd`. You will see a single line mentioning the server's version, and the host and port it's listening on. `blackd` will then print an access log similar to most web servers on standard output, merged with any exception traces caused by invalid formatting requests.

`blackd` provides even less options than _Black_. You can see them by running `blackd --help`:

```{program-output} blackd --help

```

There is no official `blackd` client tool (yet!). You can test that blackd is working using `curl`:

```sh
blackd --bind-port 9090 &  # or let blackd choose a port
curl -s -XPOST "localhost:9090" -d "print('valid')"
```

Protocol

`blackd` only accepts `POST` requests at the `/` path. The body of the request should contain the python source code to be formatted, encoded according to the `charset` field in the `Content-Type` request header. If no `charset` is specified, `blackd` assumes `UTF-8`.

There are a few HTTP headers that control how the source code is formatted. These correspond to command line flags for _Black_. There is one exception to this: `X-Protocol-Version` which if present, should have the value `1`, otherwise the request is rejected with `HTTP 501` (Not Implemented).

The headers controlling how source code is formatted are:

- `X-Line-Length`: corresponds to the `--line-length` command line flag.
- `X-Skip-Source-First-Line`: corresponds to the `--skip-source-first-line` command line flag. If present and its value is not an empty string, the first line of the source code will be ignored.
- `X-Skip-String-Normalization`: corresponds to the `--skip-string-normalization` command line flag. If present and its value is not the empty string, no string

normalization will be performed.
- `X-Skip-Magic-Trailing-Comma`: corresponds to the `--skip-magic-trailing-comma` command line flag. If present and its value is not an empty string, trailing commas will not be used as a reason to split lines.
- `X-Preview`: corresponds to the `--preview` command line flag. If present and its value is not an empty string, experimental and potentially disruptive style changes will be used.
- `X-Unstable`: corresponds to the `--unstable` command line flag. If present and its value is not an empty string, experimental style changes that are known to be buggy will be used.
- `X-Enable-Unstable-Feature`: corresponds to the `--enable-unstable-feature` flag. The contents of the flag must be a comma-separated list of unstable features to be enabled. Example: `X-Enable-Unstable-Feature: feature1, feature2`.
- `X-Fast-Or-Safe`: if set to `fast`, `blackd` will act as _Black_ does when passed the `--fast` command line flag.
- `X-Python-Variant`: if set to `pyi`, `blackd` will act as _Black_ does when passed the `--pyi` command line flag. Otherwise, its value must correspond to a Python version or a set of comma-separated Python versions, optionally prefixed with `py`. For example, to request code that is compatible with Python 3.5 and 3.6, set the header to `py3.5,py3.6`.
- `X-Diff`: corresponds to the `--diff` command line flag. If present, a diff of the formats will be output.

If any of these headers are set to invalid values, `blackd` returns a `HTTP 400` error response, mentioning the name of the problematic header in the message body.

Apart from the above, `blackd` can produce the following response codes:

- `HTTP 204`: If the input is already well-formatted. The response body is empty.
- `HTTP 200`: If formatting was needed on the input. The response body contains the blackened Python code, and the `Content-Type` header is set accordingly.
- `HTTP 400`: If the input contains a syntax error. Details of the error are returned in the response body.
- `HTTP 500`: If there was any other kind of error while trying to format the input. The response body contains a textual representation of the error.

The response headers include a `X-Black-Version` header containing the version of _Black_.
---
name: Code style issue
about: Help us improve the Black code style
title: ""
labels: "T: style"
assignees: ""

Describe the style change

<!-- A clear and concise description of how the style can be
improved. -->

Examples in the current _Black_ style

<!-- Think of some short code snippets that show
how the current _Black_ style is not great: -->

```python
def f():
   "Make sure this code is blackened"""
   pass
```

Desired style

<!-- How do you think _Black_ should format the above snippets: -->

```python
def f(
   ):
   pass
```

Additional context

<!-- Add any other context about the problem here. -->
[tool.black]
verbose = 1
--check = "no"
diff = "y"
color = true
line-length = 79
target-version = ["py36", "py37", "py38"]
exclude='\.pyi?$'
include='\.py?$'
python-cell-magics = ["custom1", "custom2"]

[v1.0.0-syntax]
# This shouldn't break Black.
contributors = [
 "Foo Bar <foo@example.com>",
 { name = "Baz Qux", email = "bazqux@example.com", url = "https://example.com/bazqux" }
]
The basics

An overview on contributing to the _Black_ project.

Technicalities

Development on the latest version of Python is preferred. You can use any operating system.

First clone the _Black_ repository:

```console
$ git clone https://github.com/psf/black.git
$ cd black
```

Then install development dependencies inside a virtual environment of your choice, for example:

```console
$ python3 -m venv .venv
$ source .venv/bin/activate # activation for linux and mac
$ .venv\Scripts\activate # activation for windows

(.venv)$ pip install -r test_requirements.txt
(.venv)$ pip install -e ".[d]"
(.venv)$ pre-commit install
```

Before submitting pull requests, run lints and tests with the following commands from the root of the black repo:

```console
# Linting
(.venv)$ pre-commit run -a

# Unit tests
(.venv)$ tox -e py

# Optional Fuzz testing
(.venv)$ tox -e fuzz

# Format Black itself
(.venv)$ tox -e run_self
```

Development

Further examples of invoking the tests

```console
```

```
#
 Run all of the above mentioned, in parallel
(.venv)$ tox --parallel=auto

# Run tests on a specific python version
(.venv)$ tox -e py39

# Run an individual test
(.venv)$ pytest -k <test name>

# Pass arguments to pytest
(.venv)$ tox -e py -- --no-cov

# Print full tree diff, see documentation below
(.venv)$ tox -e py -- --print-full-tree

# Disable diff printing, see documentation below
(.venv)$ tox -e py -- --print-tree-diff=False
```

Testing

All aspects of the _Black_ style should be tested. Normally, tests should be created as files in the `tests/data/cases` directory. These files consist of up to three parts:

- A line that starts with `# flags: ` followed by a set of command-line options. For example, if the line is `# flags: --preview --skip-magic-trailing-comma`, the test case will be run with preview mode on and the magic trailing comma off. The options accepted are mostly a subset of those of _Black_ itself, except for the `--minimum-version=` flag, which should be used when testing a grammar feature that works only in newer versions of Python. This flag ensures that we don't try to validate the AST on older versions and tests that we autodetect the Python version correctly when the feature is used. For the exact flags accepted, see the function `get_flags_parser` in `tests/util.py`. If this line is omitted, the default options are used.
- A block of Python code used as input for the formatter.
- The line `# output`, followed by the output of _Black_ when run on the previous block. If this is omitted, the test asserts that _Black_ will leave the input code unchanged.

Black has two pytest command-line options affecting test files in `tests/data/` that are split into an input part, and an output part, separated by a line with`# output`. These can be passed to `pytest` through `tox`, or directly into pytest if not using `tox`.

`--print-full-tree`

Upon a failing test, print the full concrete syntax tree (CST) as it is after

processing
the input ("actual"), and the tree that's yielded after parsing the output ("expected").
Note that a test can fail with different output with the same CST. This used to be the
default, but now defaults to `False`.

`--print-tree-diff`

Upon a failing test, print the diff of the trees as described above. This is the
default. To turn it off pass `--print-tree-diff=False`.

News / Changelog Requirement

`Black` has CI that will check for an entry corresponding to your PR in `CHANGES.md`. If
you feel this PR does not require a changelog entry please state that in a comment and a
maintainer can add a `skip news` label to make the CI pass. Otherwise, please ensure you
have a line in the following format added below the appropriate header:

```md
- `Black` is now more awesome (#X)
```

<!---
The Next PR Number link uses HTML because of a bug in MyST-Parser that double-escapes the ampersand,
causing the query parameters to not be processed.
MyST-Parser issue: https://github.com/executablebooks/MyST-Parser/issues/760
MyST-Parser
stalled fix PR: https://github.com/executablebooks/MyST-Parser/pull/929
-->

Note that X should be your PR number, not issue number! To workout X, please use
Next PR
Number. This is not perfect but saves a lot of release overhead as now the releaser
does not need to go back and workout what to add to the `CHANGES.md` for each release.

Style Changes

If a change would affect the advertised code style, please modify the documentation (The
Black code style) to reflect that change. Patches that fix unintended bugs in
formatting don't need to be mentioned separately though. If the change is implemented
with the `--preview` flag, please include the change in the future style document
instead and write the changelog entry under the dedicated "Preview style" heading.

Docs Testing

If you make changes to docs, you can test they still build locally
too.

```console
```

```
(.venv)$ pip install -r docs/requirements.txt
(.venv)$ pip install -e ".[d]"
(.venv)$ sphinx-build -a -b html -W docs/ docs/_build/
```

Hygiene

If you're fixing a bug, add a test. Run it first to confirm it fails, then fix the bug, and run the test again to confirm it's really fixed.

If adding a new feature, add a test. In fact, always add a test. If adding a large feature, please first open an issue to discuss it beforehand.

Finally

Thanks again for your interest in improving the project! You're taking action when most people decide to sit and watch.

```
name: Publish executables

on:
 release:
   types: [published]

permissions:
 contents: write # actions/upload-release-asset needs this.

jobs:
 build:
   runs-on: ${{ matrix.os }}
   strategy:
     fail-fast: false
     matrix:
       os: [windows-2019, ubuntu-20.04, macos-latest]
       include:
         - os: windows-2019
           pathsep: ";"
           asset_name: black_windows.exe
           executable_mime: "application/vnd.microsoft.portable-executable"
         - os: ubuntu-20.04
           pathsep: ":"
           asset_name: black_linux
           executable_mime: "application/x-executable"
         - os: macos-latest
           pathsep: ":"
           asset_name: black_macos
           executable_mime: "application/x-mach-binary"

   steps:
```

```
    - uses: actions/checkout@v4

    - name: Set up latest Python
      uses: actions/setup-python@v5
      with:
        python-version: "3.12.4"

    - name: Install Black and PyInstaller
      run:
|
        python -m pip install --upgrade pip wheel
        python -m pip install .[colorama]
        python -m pip install pyinstaller

    - name: Build executable with PyInstaller
      run: >
        python -m PyInstaller -F --name ${{ matrix.asset_name }} --add-data
        'src/blib2to3${{ matrix.pathsep }}blib2to3' src/black/__main__.py

    - name: Quickly test executable
      run: |
        ./dist/${{ matrix.asset_name }} --version
        ./dist/${{ matrix.asset_name }} src --verbose

    - name: Upload binary as release asset
      uses: actions/upload-release-asset@v1
      env:
        GITHUB_TOKEN: ${{ secrets.GITHUB_TOKEN }}
      with:
        upload_url: ${{ github.event.release.upload_url }}
        asset_path: dist/${{ matrix.asset_name }}
        asset_name: ${{ matrix.asset_name }}
        asset_content_type: ${{ matrix.executable_mime }}
```

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- Yazdan
- [Yngve Hiseth](mailto:yngve@hoiseth.net)
-
 [Yurii Karabas](mailto:1998uriyyo@gmail.com)
- [Zac Hatfield-Dodds](mailto:zac@zhd.dev)

[project]
name = "test"

```
version = "1.0.0"

[tool.black]
line-length = 79
target-version = ["py310"]
[build-system]
requires = ["setuptools>=41.0", "setuptools-scm", "wheel"]
build-backend = "setuptools.build_meta"
[![Black Logo](https://raw.githubusercontent.com/psf/black/main/docs/_static/logo2-
readme.png)](https://black.readthedocs.io/en/stable/)

<h2 align="center">The Uncompromising Code Formatter</h2>

<p align="center">
<a href="https://github.com/psf/black/actions"><img alt="Actions Status"
src="https://github.com/psf/black/workflows/Test/badge.svg"></a>
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src="https://img.shields.io/conda/dn/conda-forge/black.svg?label=conda-forge"></a>
<a href="https://github.com/psf/black"><img alt="Code style: black"
src="https://img.shields.io/badge/code%20style-black-000000.svg"></a>
</p>

> Any color you like.

_Black_ is the uncompromising Python code formatter. By using it, you agree to cede
control over minutiae of hand-formatting. In return, _Black_ gives you speed,
determinism, and freedom from `pycodestyle` nagging about formatting. You will save time
and mental energy for more important matters.

Blackened code looks the same regardless of the project you're reading. Formatting
becomes transparent after a while and you can focus on the content instead.

_Black_ makes code review faster by producing the smallest diffs possible.

Try it out now using the [Black Playground](https://black.vercel.app). Watch the
[PyCon 2019
 talk](https://youtu.be/esZLCuWs_2Y) to learn more.

---
```

[Read the documentation on ReadTheDocs!](https://black.readthedocs.io/en/stable)

Installation and usage

Installation

Black can be installed by running `pip install black`. It requires Python 3.9+ to run.
If you want to format Jupyter Notebooks, install with `pip install "black[jupyter]"`.

If you can't wait for the latest _hotness_ and want to install from GitHub, use:

`pip install git+https://github.com/psf/black`

Usage

To get started right away with sensible defaults:

```sh
black {source_file_or_directory}
```

You can run _Black_ as a package if running it as a script doesn't work:

```sh
python -m black {source_file_or_directory}
```

Further information can be found in our docs:

- [Usage and Configuration](https://black.readthedocs.io/en/stable/usage_and_configuration/index.html)

Black is already [successfully used](https://github.com/psf/black#used-by) by many
projects, small and big. _Black_
 has a comprehensive test suite, with efficient parallel
tests, and our own auto formatting and parallel Continuous Integration runner. Now that
we have become stable, you should not expect large formatting changes in the future.
Stylistic changes will mostly be responses to bug reports and support for new Python
syntax. For more information please refer to
[The Black Code Style](https://black.readthedocs.io/en/stable/the_black_code_style/index.html).

Also, as a safety measure which slows down processing, _Black_ will check that the
reformatted code still produces a valid AST that is effectively equivalent to the
original (see the
[Pragmatism](https://black.readthedocs.io/en/stable/the_black_code_style/current_style.html#ast-before-and-after-formatting)

section for details). If you're feeling confident, use `--fast`.

The _Black_ code style

Black is a PEP 8 compliant opinionated formatter. _Black_ reformats entire files in
place. Style configuration options are deliberately limited
 and rarely added. It doesn't
take previous formatting into account (see
[Pragmatism](https://black.readthedocs.io/en/stable/the_black_code_style/current_style.html#pragmatism)
for exceptions).

Our documentation covers the current _Black_ code style, but planned changes to it are
also documented. They're both worth taking a look at:

- [The _Black_ Code Style: Current
style](https://black.readthedocs.io/en/stable/the_black_code_style/current_style.html)
- [The _Black_ Code Style: Future
style](https://black.readthedocs.io/en/stable/the_black_code_style/future_style.html)

Changes to the _Black_ code style are bound by the Stability Policy:

- [The _Black_ Code Style: Stability
Policy](https://black.readthedocs.io/en/stable/the_black_code_style/index.html#stability-policy)

Please refer to this document before submitting an issue. What seems like a bug might be
intended behaviour.

Pragmatism

Early versions of _Black_ used to be absolutist in some respects. They took after its
initial
 author. This was fine at the time as it made the implementation simpler and
there were not many users anyway. Not many edge cases were reported. As a mature tool,
Black does make some exceptions to rules it otherwise holds.

- [The _Black_ code style:
Pragmatism](https://black.readthedocs.io/en/stable/the_black_code_style/current_style.html#pragmatism)

Please refer to this document before submitting an issue just like with the document
above. What seems like a bug might be intended behaviour.

Configuration

Black is able to read project-specific default values for its command line options
from a `pyproject.toml` file. This is especially useful for specifying custom
`--include` and `--exclude`/`--force-exclude`/`--extend-exclude` patterns for your
project.

You can find more details in our documentation:

- [The basics: Configuration via a file](https://black.readthedocs.io/en/stable/usage_and_configuration/the_basics.html#configuration-via-a-file)

And if you're looking for more general configuration documentation:

- [Usage and Configuration](https://black.readthedocs.io/en/stable/usage_and_configuration/index.html)

Pro-tip: If you're asking yourself "Do I need to configure anything?" the answer is "No". _Black_ is all about sensible defaults. Applying those defaults will have your code in compliance with many other _Black_ formatted projects.

Used by

The following notable open-source projects trust _Black_ with enforcing a consistent code style: pytest, tox, Pyramid, Django, Django Channels, Hypothesis, attrs, SQLAlchemy, Poetry, PyPA applications (Warehouse, Bandersnatch, Pipenv, virtualenv), pandas, Pillow, Twisted, LocalStack, every Datadog Agent Integration, Home Assistant, Zulip, Kedro, OpenOA, FLORIS, ORBIT, WOMBAT, and many more.

The following organizations use _Black_: Dropbox, KeepTruckin, Lyft, Mozilla, Quora, Duolingo, QuantumBlack, Tesla, Archer Aviation.

Are we missing anyone? Let us know.

Testimonials

Mike Bayer, [author of `SQLAlchemy`](https://www.sqlalchemy.org/):

> I can't think of any single tool in my entire programming career that has given me a
> bigger productivity increase by its introduction. I can now do refactorings in about
> 1% of the keystrokes that it would have taken me previously when we had no way for
> code to format itself.

Dusty Phillips, [writer](https://smile.amazon.com/s/ref=nb_sb_noss?url=search-alias%3Daps&field-keywords=dusty+phillips):

> _Black_ is opinionated so you don't have to be.

Hynek Schlawack, [creator of `attrs`](https://www.attrs.org/), core developer of Twisted and CPython:

> An auto-formatter that doesn't suck is all I want for Xmas!

Carl Meyer, [Django](https://www.djangoproject.com/) core developer:

> At least the name is good.

Kenneth Reitz, creator of [`requests`](https://requests.readthedocs.io/en/latest/)
and [`pipenv`](https://readthedocs.org/projects/pipenv/):

> This vastly improves the formatting of our code. Thanks
 a ton!

Show your style

Use the badge in your project's README.md:

```md
[![Code style: black](https://img.shields.io/badge/code%20style-black-000000.svg)](https://github.com/psf/black)
```

Using the badge in README.rst:

```
.. image:: https://img.shields.io/badge/code%20style-black-000000.svg
   :target: https://github.com/psf/black
```

Looks like this:
[![Code style: black](https://img.shields.io/badge/code%20style-black-000000.svg)](https://github.com/psf/black)

License

MIT

Contributing

Welcome! Happy to see you willing to make the project better. You can get started by
reading this:

- [Contributing: The basics](https://black.readthedocs.io/en/latest/contributing/the_basics.html)

You can also take a look at the rest of the contributing docs or talk with the
developers:

- [Contributing documentation](https://black.readthedocs.io/en/latest/contributing/index.html)
- [Chat on Discord](https://discord.gg/RtVdv86PrH)

Change log

The log has become rather long. It

moved to its own file.

See [CHANGES](https://black.readthedocs.io/en/latest/change_log.html).

Authors

The author list is quite long nowadays, so it lives in its own file.

See [AUTHORS.md](./AUTHORS.md)

Code of Conduct

Everyone participating in the _Black_ project, and in particular in the issue tracker,
pull requests, and social media activity, is expected to treat other people with respect
and more generally to follow the guidelines articulated in the
[Python Community Code of Conduct](https://www.python.org/psf/codeofconduct/).

At the same time, humor is encouraged. In fact, basic familiarity with Monty Python's
Flying Circus is expected. We are not savages.

And if you _really_ need to slap somebody, do it with a fish while dancing.
[pycodestyle]
max-line-length = 88
ignore = E203,E701
name: Lint + format ourselves

on: [push, pull_request]

jobs:
 build:
   # We want to run on external PRs, but not on our own internal PRs as they'll be run
   # by the push to the branch. Without this if check, checks are duplicated since
   # internal PRs match both the push and pull_request events.
   if:
     github.event_name == 'push' || github.event.pull_request.head.repo.full_name !=
     github.repository

   runs-on: ubuntu-latest

   steps:
     - uses: actions/checkout@v4

     - name: Assert PR target is main
       if: github.event_name == 'pull_request' && github.repository == 'psf/black'
       run: |
         if ["$GITHUB_BASE_REF" != "main"]; then
             echo "::error::PR targeting '$GITHUB_BASE_REF', please refile targeting 'main'." && exit 1
         fi

```
- name: Set up latest Python
  uses: actions/setup-python@v5
  with:
    python-version: "3.13"
    allow-prereleases: true

- name: Install dependencies
   run: |
    python -m pip install --upgrade pip
    python -m pip install -e '.'
    python -m pip install tox

- name: Run pre-commit hooks
  uses: pre-commit/action@v3.0.1

- name: Format ourselves
  run: |
    tox -e run_self

- name: Regenerate schema
  run: |
    tox -e generate_schema
    git diff --exit-code
```

1.4728 jinja 3.0.3-1ubuntu0.3

1.4728.1 Available under license :

This package was debianized by Piotr Oarowski <piotr@debian.org> on
Mon, 14 Jul 2008 23:45:03 +0200.

It was downloaded from http://pypi.python.org/pypi/Jinja2

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---

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ext/jinja.el (source package only):

Author: Georg Brandl

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* /opt/cola/permits/2338832157_1738271944.619055/0/kube-openapi-73-tar/kube-openapi.txt

1.4730 semver 3.3.0

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1.4731 dogpile-cache 1.3.4

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(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
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It contains the certificates in PEM format and therefore
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1.4734 golang 1.23.3

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1.4735 github.com/dolthub/maphash 0.1.0

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1.4745 protobuf 1.5.2

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1.4746 go-sockaddr 1.0.6

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1.4747 gorilla-mux 1.8.0

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1.4748 google-cloud-go-iam 1.1.12

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package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
```

```
  gax.WithTimeout(600000 * time.Millisecond),
 },
 Get: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier:
1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 GetIamPolicy: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 Insert: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 List: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 SetIamPolicy: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 TestIamPermissions:
[]gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
```

```
  },
 }
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest,
 ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}
```

```
//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy
 gets the access control policy for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like
 Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}
```

```
// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution
 This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
//
 The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
```

```
 endpoint:    endpoint,
 httpClient:  httpClient,
 CallOptions: &callOpts,
}
c.setGoogleClientInfo()

o := []option.ClientOption{
 option.WithHTTPClient(httpClient),
 option.WithEndpoint(endpoint),
}
opC, err := NewGlobalOperationsRESTClient(ctx, o...)
if err != nil {
 return nil, err
}
c.operationClient = opC

return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}
```

```
// Connection returns a connection to the API service.
//
//
 Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers
 := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
```

```
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if
e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
```

```
 opts
 = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource.
 May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party
partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
```

```
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers
 := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
```

```
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if
e != nil {
 return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v", "project",
 url.QueryEscape(req.GetProject())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
```

```
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err !=
nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-

cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true,
 DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
  }
  if req != nil && req.MaxResults != nil {
   params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
  }
  if req != nil && req.OrderBy != nil {
   params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
  }
  if req != nil && req.PageToken != nil {
   params.Add("pageToken", fmt.Sprintf("%v",
req.GetPageToken()))
  }
  if req != nil && req.ReturnPartialSuccess != nil {
   params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
  }

  baseUrl.RawQuery = params.Encode()

  // Build HTTP headers from client and context metadata.
  headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
  e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
   if settings.Path != "" {
```

```
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return
err
 }

 return nil
}, opts...)
if e != nil {
 return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
```

```
 it.pageInfo.Token = req.GetPageToken()

 return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial:
 true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path
 != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
```

```
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
 error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))
```

```
 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e
 := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
 items    []*computepb.License
```

```
 pageInfo *iterator.PageInfo
 nextFunc func() error

 // Response is the raw response for the current page.
 // It
 must be cast to the RPC response type.
 // Calling Next() or InternalFetch() updates this value.
 Response interface{}

 // InternalFetch is for use by the Google Cloud Libraries only.
 // It is not part of the stable interface of this package.
 //
 // InternalFetch returns results from a single call to the underlying RPC.
 // The number of results is no greater than pageSize.
 // If there are no more results, nextPageToken is empty and err is nil.
 InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
 return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
 var item *computepb.License
 if
 err := it.nextFunc(); err != nil {
  return item, err
 }
 item = it.items[0]
 it.items = it.items[1:]
 return item, nil
}

func (it *LicenseIterator) bufLen() int {
 return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
 b := it.items
 it.items = nil
 return b
}
```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
```

```
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
```

```
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_Insert()
{
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.InsertLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
}
op, err := c.Insert(ctx, req)
if err != nil {
 // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
```

```
 // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
 }
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range
 values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
```

```
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown
 in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get                 []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
 return &LicenseCodesCallOptions{
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
```

```
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
   }),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google
 Compute Engine API.
type internalLicenseCodesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func
 (c *LicenseCodesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
```

```
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption)
 (*computepb.LicenseCode, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions
}

//
 NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
```

```
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
```

```
 return nil
}

// Get return
 a specified license code. License codes are mirrored across all projects that have permissions to read the License
Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
```

```
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by
 third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
```

```
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}
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```

```
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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
```

```
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

1.4749 googlecloudgoiam 1.1.12

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1.4758 @npmcli/metavuln-calculator 9.0.0

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1.4761 walk-up-path 4.0.0

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1.4762 pacote 21.0.0

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1.4765 grpc-go 1.70.0

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1.4766 google-golang-org-grpc 1.70.0

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1.4767 golang 1.23.6

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1.4768 k8s.io/kube-state-metrics/v2 2.10.0

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tomb - support for clean goroutine termination in Go.

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apiVersion: v1
kind: Secret
metadata:
 name: enterprise-logs-license
 labels:
   {{- include "loki.labels" . | nindent 4 }}
data:
 license.jwt: {{ .Values.enterprise.license.contents | b64enc }}
{{- end }}
```

```
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*/

package minio

import (
 "bytes"
 "context"
 "encoding/xml"
 "fmt"
 "net/http"
 "net/url"

 "github.com/minio/minio-go/v7/pkg/s3utils"
)

// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html
type objectLegalHold struct {
 XMLNS   string          `xml:"xmlns,attr,omitempty"`
 XMLName
 xml.Name        `xml:"LegalHold"`
 Status  LegalHoldStatus `xml:"Status,omitempty"`
}

// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
type PutObjectLegalHoldOptions struct {
 VersionID string
 Status    *LegalHoldStatus
}

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
type GetObjectLegalHoldOptions struct {
 VersionID string
```

```
}

// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string

const (
 // LegalHoldEnabled indicates legal hold is enabled
 LegalHoldEnabled LegalHoldStatus = "ON"

 // LegalHoldDisabled indicates legal hold is disabled
 LegalHoldDisabled LegalHoldStatus = "OFF"
)

func (r LegalHoldStatus) String() string {
 return string(r)
}

// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {
 return r == LegalHoldEnabled || r == LegalHoldDisabled
}

func newObjectLegalHold(status *LegalHoldStatus)
 (*objectLegalHold, error) {
 if status == nil {
  return nil, fmt.Errorf("Status not set")
 }
 if !status.IsValid() {
  return nil, fmt.Errorf("invalid legal hold status `%v`", status)
 }
 legalHold := &objectLegalHold{
  Status: *status,
 }
 return legalHold, nil
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c *Client) PutObjectLegalHold(ctx context.Context, bucketName, objectName string, opts
PutObjectLegalHoldOptions) error {
 // Input validation.
 if err := s3utils.CheckValidBucketName(bucketName); err != nil {
  return err
 }

 if err := s3utils.CheckValidObjectName(objectName); err != nil {
  return err
 }
```

```
 // Get resources properly escaped and lined up before
 // using them in http request.
 urlValues := make(url.Values)
 urlValues.Set("legal-hold", "")

 if opts.VersionID != "" {
  urlValues.Set("versionId", opts.VersionID)
 }

 lh, err := newObjectLegalHold(opts.Status)
 if err != nil {
  return err
 }

 lhData, err := xml.Marshal(lh)
 if
 err != nil {
  return err
 }

 reqMetadata := requestMetadata{
  bucketName:       bucketName,
  objectName:       objectName,
  queryValues:      urlValues,
  contentBody:      bytes.NewReader(lhData),
  contentLength:    int64(len(lhData)),
  contentMD5Base64: sumMD5Base64(lhData),
  contentSHA256Hex: sum256Hex(lhData),
 }

 // Execute PUT Object Legal Hold.
 resp, err := c.executeMethod(ctx, http.MethodPut, reqMetadata)
 defer closeResponse(resp)
 if err != nil {
  return err
 }
 if resp != nil {
  if resp.StatusCode != http.StatusOK && resp.StatusCode != http.StatusNoContent {
   return httpRespToErrorResponse(resp, bucketName, objectName)
  }
 }
 return nil
}

// GetObjectLegalHold gets legal-hold status of given object.
func (c *Client) GetObjectLegalHold(ctx context.Context, bucketName, objectName string, opts
GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {
 // Input validation.
```

```
 if err := s3utils.CheckValidBucketName(bucketName); err != nil {
  return
 nil, err
 }

 if err := s3utils.CheckValidObjectName(objectName); err != nil {
  return nil, err
 }
 urlValues := make(url.Values)
 urlValues.Set("legal-hold", "")

 if opts.VersionID != "" {
  urlValues.Set("versionId", opts.VersionID)
 }

 // Execute GET on bucket to list objects.
 resp, err := c.executeMethod(ctx, http.MethodGet, requestMetadata{
  bucketName:       bucketName,
  objectName:       objectName,
  queryValues:      urlValues,
  contentSHA256Hex: emptySHA256Hex,
 })
 defer closeResponse(resp)
 if err != nil {
  return nil, err
 }
 if resp != nil {
  if resp.StatusCode != http.StatusOK {
   return nil, httpRespToErrorResponse(resp, bucketName, objectName)
  }
 }
 lh := &objectLegalHold{}
 if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
  return nil, err
 }

 return &lh.Status, nil
}
```

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package spec

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//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
```

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package api

```
import (
 "io/ioutil"
 "strings"
 "time"
)

type License struct {
 // The unique identifier of the license
 LicenseID string `json:"license_id"`

 // The customer ID associated with the license
 CustomerID string `json:"customer_id"`
```

```
 // If set, an identifier that should be used to lock the license to a
 // particular site, cluster, etc.
 InstallationID string `json:"installation_id"`

 // The time at which the license was issued
 IssueTime time.Time `json:"issue_time"`

 // The time at which the license starts being valid
 StartTime time.Time `json:"start_time"`

 // The time after which the license expires
 ExpirationTime time.Time `json:"expiration_time"`

 // The time at which the license ceases to function and can
 // no longer be used in any capacity
 TerminationTime time.Time `json:"termination_time"`

 // The product the license is valid for
 Product string `json:"product"`

 // License Specific Flags
 Flags map[string]interface{} `json:"flags"`

 // Modules is a list
 of the licensed enterprise modules
 Modules []string `json:"modules"`

 // List of features enabled by the license
 Features []string `json:"features"`
}

type LicenseReply struct {
 Valid    bool
 License  *License
 Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
 var reply LicenseReply
 if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
  return nil, err
 } else {
  return &reply, nil
 }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
 r := op.c.newRequest("GET", "/v1/operator/license")
```

```
 r.params.Set("signed", "1")
 r.setQueryOptions(q)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return "", err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return "", err
 }

 data, err := ioutil.ReadAll(resp.Body)
 if err != nil {
  return "", err
 }

 return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If
 the builtin license is invalid, the current license stays active.
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r := op.c.newRequest("DELETE", "/v1/operator/license")
 r.setWriteOptions(opts)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return nil, err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return nil, err
 }
 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
 }
 return &reply, nil
}

// LicensePut will configure the Consul Enterprise license for the target datacenter
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
```

```
var reply LicenseReply
r
:= op.c.newRequest("PUT", "/v1/operator/license")
r.setWriteOptions(opts)
r.body = strings.NewReader(license)
_, resp, err := op.c.doRequest(r)
if err != nil {
 return nil, err
}
defer closeResponseBody(resp)
if err := requireOK(resp); err != nil {
 return nil, err
}

if err := decodeBody(resp, &reply); err != nil {
 return nil, err
}

return &reply, nil
}
```

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Bits of Go-lang's `once.Do()` were cribbed and reused here, too.

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```
package spec

import (
 "encoding/json"

 "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 LicenseProps
 VendorExtensible
```

```
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}

// UnmarshalJSON
 hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
 if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
  return err
 }
 return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
 b1, err := json.Marshal(l.LicenseProps)
 if err != nil {
  return nil, err
 }
 b2, err := json.Marshal(l.VendorExtensible)
 if err != nil {
  return nil, err
 }
 return swag.ConcatJSON(b1, b2), nil
}
```

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page_title: 'Commands: license'
description: |
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Command: license

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Usage

Usage: `nomad license <subcommand> [options]`

Run `nomad license <subcommand> -h` for help on that subcommand. The following
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- [`license get`][get] - Get the current license from a server
- [`license inspect`][inspect] - Inspect and validate a license

[get]: /nomad/docs/commands/license/get 'Get the current license from a server'
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---
layout: docs
page_title: 'Commands: license get'
description: |

The license get command is used to get the current license.

Command: license get

The `license get` command is used to retrieve the current Nomad Enterprise license. The command is not forwarded to the Nomad leader, and will return the license from the specific server being contacted.

~> License commands are only available with Nomad Enterprise.

Usage

```plaintext
nomad license get [options]
```

When ACLs are enabled, this command requires a token with the 'operator:read' capability.

General Options

@include 'general_options_no_namespace.mdx'

Examples

```shell-session
$ nomad license get

Product        = nomad
License Status = valid
License ID     = e23f63b1-00ec-4e67-e926-c22e7937ceec
Customer ID    = 350356e5-8aec-bdf4-8510-b205079ccad2
Issued At      = 2021-03-31 14:21:16.969610774 +0000 UTC
Expires At     = 2020-05-09 00:00:00 +0000 UTC
Terminates At  = 2020-05-10 00:00:00 +0000 UTC
Datacenter
    = *
Modules:
      governance-policy
Licensed Features:
      Automated Upgrades
      Enhanced Read Scalability
      Redundancy Zones
      Namespaces
      Resource Quotas
      Preemption
      Audit Logging
```

Setinel Policies
```

```shell-session
$ nomad license get -stale=true

Product        = nomad
License Status = valid
License ID     = 8c647f6c-1e6d-18d8-7f05-92c4d8110b2d
Customer ID    = 350356e5-8aec-bdf4-8510-b205079ccad2
Issued At      = 2021-03-31 14:21:16.969610774 +0000 UTC
Expires At     = 2022-04-01 00:00:00 +0000 UTC
Terminates At  = 2022-04-04 00:00:00 +0000 UTC
Datacenter     = *
Modules:
    governance-policy
    multicluster-and-efficiency
Licensed Features:
    Automated Upgrades
    Enhanced Read Scalability
    Redundancy Zones
    Namespaces
    Resource Quotas
    Audit Logging
    Sentinel Policies
    Multiregion Deployments
    Automated Backups
    Multi-Vault Namespaces
```

```
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package command

import (
 "fmt"
 "strings"
 "time"

 "github.com/hashicorp/nomad/api"
 "github.com/mitchellh/cli"
)

var _ cli.Command = &LicenseCommand{}

type LicenseCommand struct {
 Meta
}
```
```

```
func (l *LicenseCommand) Help() string {
 helpText := `
Usage: nomad license <subcommand> [options] [args]

This command has subcommands for managing the Nomad Enterprise license.
For more detailed examples see:
https://developer.hashicorp.com/nomad/docs/commands/license

Retrieve the server's license:

 $ nomad license get

 `
 return strings.TrimSpace(helpText)
}

func (l *LicenseCommand) Synopsis() string {
 return "Interact with Nomad Enterprise License"
}

func (l *LicenseCommand) Name() string { return "license" }

func (l *LicenseCommand) Run(args []string) int {
 return cli.RunResultHelp
}

func OutputLicenseReply(ui cli.Ui, resp *api.LicenseReply) int {
 now := time.Now()
 expired := resp.License.ExpirationTime.Before(now)
 terminated
 := resp.License.TerminationTime.Before(now)
 outputLicenseInfo(ui, resp.License, expired, terminated)
 if expired {
  return 1
 }
 return 0
}

func outputLicenseInfo(ui cli.Ui, lic *api.License, expired, terminated bool) {
 expStr := ""
 if expired {
  expStr = fmt.Sprintf("Expired At|%s", lic.ExpirationTime.String())
 } else {
  expStr = fmt.Sprintf("Expires At|%s", lic.ExpirationTime.String())
 }
 termStr := ""
 if terminated {
```

```
 termStr = fmt.Sprintf("Terminated At|%s", lic.TerminationTime.String())
 } else {
 termStr = fmt.Sprintf("Terminates At|%s", lic.TerminationTime.String())
 }

 validity := "valid"
 if expired {
  validity = "expired!"
 }
 output := []string{
  fmt.Sprintf("Product|%s", lic.Product),
  fmt.Sprintf("License Status|%s", validity),
  fmt.Sprintf("License ID|%s", lic.LicenseID),
  fmt.Sprintf("Customer ID|%s", lic.CustomerID),
  fmt.Sprintf("Issued At|%s", lic.IssueTime),
  expStr,
  termStr,
  fmt.Sprintf("Datacenter|%s", lic.InstallationID),
 }
 ui.Output(formatKV(output))

 if
 len(lic.Modules) > 0 {
  ui.Output("Modules:")
  for _, mod := range lic.Modules {
   ui.Output(fmt.Sprintf("\t%s", mod))
  }
 }
 if len(lic.Features) > 0 {
  ui.Output("Licensed Features:")
  for _, f := range lic.Features {
   ui.Output(fmt.Sprintf("\t%s", f))
  }
 }
}
---
layout: docs
page_title: Nomad Enterprise Licensing
description: >-
 Learn about how Nomad Enterprise licensing works.
---

## Nomad Enterprise Licensing

Licensing capabilities were added to Nomad Enterprise v0.12.0. Each server in
the cluster must have a license to start. Nomad Enterprise can be downloaded from
the [releases site].
```

Click [here](https://www.hashicorp.com/go/nomad-enterprise) to set up a demo of Nomad Enterprise
or [here](/nomad/tutorials/enterprise/hashicorp-enterprise-license#request-a-trial-license)
for instructions on how to get a trial license.

~> **Note:** A Nomad Enterprise cluster cannot be downgraded to the open
source version of Nomad. Servers running the open source version of Nomad will
panic if they are joined to a Nomad Enterprise cluster, due to raft entries
relating to Enterprise features not being parseable by open source Nomad.

Expiring Licenses

Nomad Enterprise licenses have an expiration time.
You can read and validate the license on a running
server,
on disk, or in your environment with the
[`nomad license` commands](/nomad/docs/commands/license).

Before upgrading Nomad or replacing your license with a new one, you should always run
[`nomad license inspect`](/nomad/docs/commands/license/inspect)
to ensure the license is valid with your server binary.

As a Nomad Enterprise license approaches its expiration time, Nomad servers
will periodically log a warning message about the approaching
expiration. Below shows log excerpts of the warnings.

```
  2021-03-29T15:02:28.100-0400 [WARN]  nomad.licensing: license expiring: time_left=5m0s
  2021-03-29T15:03:28.103-0400 [WARN]  nomad.licensing: license expiring: time_left=4m0s
  2021-03-29T15:04:28.106-0400 [WARN]  nomad.licensing: license expiring: time_left=3m0s
  2021-03-29T15:05:28.109-0400 [WARN]  nomad.licensing: license expiring: time_left=2m0s
  2021-03-29T15:06:28.112-0400 [WARN]  nomad.licensing: license expiring: time_left=1m0s
  2021-03-29T15:07:28.114-0400
[WARN]  nomad.licensing: license expiring: time_left=0s
  2021-03-29T15:07:58.104-0400 [ERROR] nomad.licensing: license expired, please update license: error="invalid
license or license is expired"
```

When the license expires, enterprise functionality will become limited. Only
read operations on enterprise endpoints will be supported, and write
operations will return an error.

Configuring the License

See the server [license configuration] reference documentation on all the
options to set an enterprise license. Nomad will load the license file from
disk or environment when it starts.

~> **Note:** An Enterprise license [tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license) is available

to help you install the license on the server.

In order to immediately alert operators of a bad configuration setting, if a license configuration option is an invalid or expired license, the Nomad server will exit with an error.

```
NOMAD_LICENSE=misconfigured nomad agent -dev
==>
 No configuration files loaded
==> Starting Nomad agent...
==> Error starting agent: server setup failed: failed to initialize enterprise licensing: a file license was configured but the license is invalid: error decoding version: expected integer
```

See the [License commands](/nomad/docs/commands/license) for more information on interacting with the Enterprise License.

[releases site]: https://releases.hashicorp.com/nomad
[license configuration]: /nomad/docs/configuration/server#license_path
[license endpoint]: /nomad/api-docs/operator/license#updating-the-nomad-enterprise-license
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Parameters

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//go:build !ent

package nomad

func (c *LicenseConfig) Validate() error {
 return nil
}
---
layout: api
page_title: License - Operator - HTTP API
description: |-
 The /operator/license endpoints allow for retrieving the Nomad Enterprise License.

License Operator HTTP API

<EnterpriseAlert />

Get Nomad Enterprise License Info

This endpoint gets information about the current license.

Method	Path	Produces

| `GET` | `/v1/operator/license` | `application/json` |

The table below shows this endpoint's support for
[blocking queries](/nomad/api-docs#blocking-queries) and
[required ACLs](/nomad/api-docs#acls).

Blocking Queries	ACL Required
`NO`	`operator:read`

Sample Request

```shell-session
$ curl \
  https://localhost:4646/v1/operator/license
```

Sample Response

```json
{
 "KnownLeader": false,
 "LastContact": 0,
 "LastIndex": 0,
 "License": {
   "CustomerID": "customer name",
   "ExpirationTime":
 "2020-06-01T14:50:16.581304556-04:00",
   "Features": [
     "Automated Upgrades",
     "Enhanced Read Scalability",
     "Redundancy Zones",
     "Namespaces",
     "Resource Quotas",
     "Preemption",
     "Audit Logging",
     "Setinel Policies"
   ],
   "Flags": {
     "modules": ["governance-policy"]
   },
   "InstallationID": "*",
   "IssueTime": "2020-06-01T08:50:16.581304556-04:00",
   "LicenseID": "6f706a45-bdac-4a70-968b-d93784894653",
   "Modules": ["governance-policy"],
   "Product": "nomad",
   "StartTime": "2020-06-01T08:50:16.581304556-04:00",
   "TerminationTime": "2020-06-01T14:50:16.581304556-04:00"
```

```
 },
 "RequestTime": 0
}
```

```
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package command

import (
 "fmt"

 "github.com/hashicorp/nomad/api"
 "github.com/posener/complete"
)

type LicenseGetCommand struct {
 Meta
}

func (c *LicenseGetCommand) Help() string {
 helpText := `
Usage: nomad license get [options]

 Gets the license loaded by the server. The command is not forwarded to the
 Nomad leader, and will return the license from the specific server being
 contacted.

 When ACLs are enabled, this command requires a token with the
 'operator:read' capability.

General Options:

 ` + generalOptionsUsage(usageOptsDefault|usageOptsNoNamespace)

 return helpText
}

func (c *LicenseGetCommand) AutocompleteFlags() complete.Flags {
 return complete.Flags{}
}

func (c *LicenseGetCommand) AutocompleteArgs() complete.Predictor {
 return complete.PredictNothing
}

func (c *LicenseGetCommand) Synopsis() string {
 return "Retrieve the current Nomad Enterprise License"
```

```
}

func (c *LicenseGetCommand)
 Name() string { return "license get" }

func (c *LicenseGetCommand) Run(args []string) int {
 flags := c.Meta.FlagSet(c.Name(), FlagSetClient)
 flags.Usage = func() { c.Ui.Output(c.Help()) }

 if err := flags.Parse(args); err != nil {
  c.Ui.Error(fmt.Sprintf("Error parsing flags: %s", err))
  return 1
 }

 client, err := c.Meta.Client()
 if err != nil {
  c.Ui.Error(fmt.Sprintf("Error initializing client: %s", err))
  return 1
 }

 resp, _, err := client.Operator().LicenseGet(&api.QueryOptions{})
 if err != nil {
  c.Ui.Error(fmt.Sprintf("Error getting license: %v", err))
  return 1
 }

 return OutputLicenseReply(c.Ui, resp)
}
---
layout: docs
page_title: Automated license utilization reporting
description: >-
 Learn what data HashiCorp collects to meter Enterprise license utilization. Enable or disable reporting. Review
sample payloads and logs.
---

# Automated license utilization reporting

Automated license utilization reporting sends license utilization data to HashiCorp without requiring you
to manually collect and report them. It also lets you review your license usage with the monitoring
solution you already use (for example Splunk, Datadog, or others) so you can optimize and manage your
deployments. Use these reports to understand how much more you can deploy under your current contract,
protect against overutilization, and budget for predicted consumption.

Automated reporting shares the minimum data required to validate license utilization as defined in our
contracts. They consist of mostly computed metrics and will never contain Personal Identifiable Information
(PII) or other sensitive information.
```

Automated reporting shares the data with HashiCorp using a secure,
unidirectional HTTPS API and makes an auditable record in the product logs each time it submits a report. The reporting process is GDPR compliant and submits reports roughly once every 24 hours.

Enable automated reporting

To enable automated reporting, you need to make sure that outbound network traffic is configured correctly and upgrade your enterprise product to a version that supports it. If your installation is air-gapped or network settings are not in place, automated reporting will not work.

1. Allow outbound HTTPS traffic on port 443

Make sure that your network allows HTTPS egress on port 443 from https://reporting.hashicorp.services by allow-listing the following IP addresses:

- 100.20.70.12
- 35.166.5.222
- 23.95.85.111
- 44.215.244.1

2. Upgrade

Upgrade to a release that supports license utilization reporting. These releases include:
- [Nomad v1.7.0](/nomad/downloads) and later

3. Check logs

Automatic license utilization reporting will start sending data within roughly 24 hours. Check the product logs for records that the data sent successfully.

Instructions on how to check logs.

```
[DEBUG] core.reporting: beginning snapshot export
[DEBUG] core.reporting: creating payload
[DEBUG] core.reporting: marshalling payload to json
[DEBUG] core.reporting: generating authentication headers
[DEBUG] core.reporting: creating request
[DEBUG] core.reporting: sending request
[DEBUG] core.reporting: performing request: method=POST url=https://reporting.hashicorp.services
[DEBUG] core.reporting: recording audit record
[INFO]  reporting: Report sent: auditRecord={"payload":{"payload_version":"1","license_id":"d2cdd857-4202-5a45-70a6-e4b531050c34","product":"nomad","product_version":"1.6.0","export_timestamp":"2023-05-26T20:09:13.753921087Z","snapshots":[{"snapshot_version":1,"snapshot_id":"0001J724F90F4XWQDSAA76ZQWA","process_id":"01H1CTJPC1S8H7Q45MKTJ689ZW","timestamp":"2023-05-26T20:09:13.753513962Z","schema_version":"1.0.0","service":"nomad","metrics":{"nomad.billable.nodes":{"key":"nomad.billable.nodes","kind":"counter","mode":"write","value":33}}}]}}
```

```
[DEBUG]
 completed recording audit record
[DEBUG] core.reporting: export finished successfully
```

If your installation is air-gapped or your network doesnt allow the correct egress, logs will show an error.

```
[DEBUG] core.reporting: beginning snapshot export
[DEBUG] core.reporting: creating payload
[DEBUG] core.reporting: marshalling payload to json
[DEBUG] core.reporting: generating authentication headers
[DEBUG] core.reporting: creating request
[DEBUG] core.reporting: sending request
[DEBUG] core.reporting: performing request: method=POST url=https://reporting.hashicorp.services
[DEBUG] core.reporting: error status code received: statusCode=403
```

In this case, reconfigure your network to allow egress and check back in 24 hours.

Opt out

If your installation is air-gapped or you
 want to manually collect and report on the same license
utilization metrics, you can opt-out of automated reporting.

Manually reporting these metrics can be time consuming. Opting out of automated reporting does not mean that you also opt out from sending license utilization metrics. Customers who opt out of automated reporting will still be required to manually collect and send license utilization metrics to HashiCorp.

If you are considering opting out because youre worried about the data, we strongly recommend that you review the [example payloads](#example-payloads) before opting out. If you have concerns with any of the automatically-reported data please bring them to your account manager.

You have two options to opt out of automated reporting: HCL configuration (recommended) and Environment variable (requires restart).

Opting out in your products configuration file doesnt require a system restart, and is the method we recommend. Add the following block to your `server.hcl`
 file.

```hcl
reporting {
 license {
  enabled = false
   }
}
```

```

If you need to, you can also opt out using an environment variable, which will provide a startup message confirming that you have disabled automated reporting. This option requires a system restart.

Set the following environment variable.

```
$ export OPTOUT_LICENSE_REPORTING=true
```

Now restart your system by following [these instructions](/nomad/docs/operations/nomad-agent).

Check your product logs roughly 24 hours after opting out to make sure that the system isnt trying to send reports.

If your configuration file and environment variable differ, the environment variable setting will take precedence.

## Example payloads

HashiCorp collects the following utilization data as JSON payloads:

`billable.nodes` - Number of billable nodes in Nomad

```json
"metrics": {
  "nomad.billable.nodes": {
      "key": "nomad.billable.nodes",
      "kind": "counter",
      "mode": "write",
      "value":
 33
  }
}
```
---
layout: docs
page_title: Nomad Enterprise License FAQ
description: >-
 Frequently Asked Questions pertaining to Nomad Enterprise Licensing.

Frequently Asked Questions (FAQ)

This FAQ is for the license changes introduced in Nomad Enterprise version v1.6.0+ent.

For license-related FAQ for earlier versions, please refer to earlier versions of this document
```

using the version drop-down on this page, e.g. [v1.5.x](/nomad/docs/v1.5.x/enterprise/license/faq).

Q: Can I get a quick summary of the Nomad changes?

Starting with Nomad Enterprise v1.6.0, license expiration is different.

For trial licenses, the behavior remains the same. Enterprise features will stop working
when the license expires, and a server can not start with an expired license.

For new "non-terminating" contract licenses, instead of expiration being compared to the current time,
expiration time is compared to the build date of the Nomad binary, which you can find in the output of the
[`nomad version`](/nomad/docs/commands/version)
 command.

The practical result is that newer contract licenses will work in perpetuity for any v1.6.0+ version of Nomad
built prior to the expiration time of the license. No features will stop working,
and server agents can be restarted safely.

However, if you try to upgrade to a newer binary past license expiration, the server will not start.
To proactively avoid that, you can test a new binary with your license using the new
[`nomad license inspect`][license inspect] command
before trying to upgrade your servers.

Q: What resources are available?

The list below is a great starting point for learning more about license usage in general.

- [v1.6.0 Upgrade Guide](/nomad/docs/upgrade/upgrade-specific#enterprise-license-validation-with-builddate)

- [Nomad License Documentation](/nomad/docs/enterprise/license)

- [License configuration values documentation](/nomad/docs/configuration/server#license_path)

- [Install a HashiCorp Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license)

##
 Q: Does this affect older versions of Nomad?

This change only affects Nomad Enterprise version v1.6.0+ent and later.

Q: Does the license have to be present on Nomad client nodes?

Only Nomad server nodes need to have the license present.
Nomad agents running with the `-dev` flag will also need a license.

Q: What are some pitfalls that could be experienced during an upgrade because of the license changes?

If you have an expired license that has not yet become fully nonfunctional

(i.e. it is in grace period between ExpirationTime and TerminationTime),
then a Nomad server will not be able to start using a new v1.6.0+ binary.

Before shutting down a server agent to replace it with a new version,
be sure to run [`nomad license inspect`][license inspect] with the new binary.

Q: How can a user get their existing license?

If you are an existing HashiCorp enterprise customer you may contact your organization's customer
success manager (CSM) or email support-softwaredelivery@hashicorp.com for information on how to get your organization's enterprise license.
You can use `nomad license get` to retrieve information about the license, but not the license itself.

Q: What happens when a license expires?

All features will continue to work until you attempt to upgrade Nomad that is newer than your license expiration time.
In that case, the server agent will fail to start, and you'll need to roll back to the previous working version
and acquire a new license to use with the newer Nomad version before attempting the upgrade again.

Q: Are licenses cluster-specific? node-specific?

Licenses can be reused on different nodes and different clusters.

Q: Where can users get a trial license for Nomad?

Follow [these instructions](/nomad/tutorials/enterprise/hashicorp-enterprise-license#request-a-trial-license) to
request and enable a free 30-day trial license.

Q: When a Nomad client agent restarts, will
it still need a license file?

Every time `nomad agent` runs as a server (or in `-dev`), it requires a license.

Q: May I downgrade Nomad Enterprise from v1.6.0 to an earlier version?

Yes, if you upgrade a server to 1.6.0+ but it fails to start due to license expiration,
you can roll back to a previous working version with the old expiration logic.

If a server fails to start for any other reason aside from license expiration,
roll back to a previous version is not supported due to the Nomad state store
not having forward compatibility, and may result in a crash loop.

Q: Is there a tutorial available for the license configuration steps?
Please visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license).

[license inspect]: /nomad/docs/commands/license/inspect

```
// Copyright (c) HashiCorp, Inc.
// SPDX-License-Identifier: BUSL-1.1

package nomad

import (
 "slices"
 "time"
)

// LicenseConfig allows for tunable licensing config
// primarily used for enterprise testing
type LicenseConfig struct {
 // BuildDate is the time of the git commit used to build the program.
 BuildDate time.Time

 // LicenseEnvBytes is the license bytes to use for the server's license
 LicenseEnvBytes string

 // LicensePath is the path to use for the server's license
 LicensePath string

 // AdditionalPubKeys is a set of public keys to
 AdditionalPubKeys []string
}

func (c *LicenseConfig) Copy() *LicenseConfig {
 if c == nil {
  return nil
 }

 nc := *c
 nc.AdditionalPubKeys = slices.Clone(c.AdditionalPubKeys)
 return &nc
}
```

ISC

```
// Copyright (c) HashiCorp, Inc.
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package command

import (
 "testing"
 "time"

 "github.com/hashicorp/nomad/api"
 "github.com/hashicorp/nomad/ci"
 "github.com/mitchellh/cli"
```

```
 "github.com/shoenig/test/must"
)

var _ cli.Command = &LicenseGetCommand{}

func TestCommand_LicenseGet_OSSErr(t *testing.T) {
 ci.Parallel(t)

 srv, _, url := testServer(t, false, nil)
 defer srv.Shutdown()

 ui := cli.NewMockUi()
 cmd := &LicenseGetCommand{Meta: Meta{Ui: ui}}

 code := cmd.Run([]string{"-address=" + url})
 if srv.Enterprise {
  must.Zero(t, code)
 } else {
  must.One(t, code)
  must.StrContains(t, ui.ErrorWriter.String(), "Nomad Enterprise only endpoint")
 }
}

func TestOutputLicenseReply(t *testing.T) {
 ci.Parallel(t)

 now := time.Now()
 lic := &api.LicenseReply{
  License: &api.License{
   LicenseID:       "licenseID",
   CustomerID:      "customerID",
   InstallationID:  "*",
   IssueTime:       now,
   StartTime:       now,
   ExpirationTime:  now.Add(1
 * time.Hour),
   TerminationTime: now,
   Product:         "nomad",
   Flags: map[string]interface{}{
    "": nil,
   },
  },
 }

 ui := cli.NewMockUi()

 must.Zero(t, OutputLicenseReply(ui, lic))
```

```
 out := ui.OutputWriter.String()
 must.StrContains(t, out, "Customer ID")
 must.StrContains(t, out, "License ID")
}
```

---
layout: docs
page_title: 'Commands: license inspect'
description: |
 The license inspect command is used to inspect and validate an enterprise license.

Command: license inspect

<EnterpriseAlert>
 This command is only present in Nomad Enterprise.
</EnterpriseAlert>

The `license inspect` command is used to inspect and validate a Nomad Enterprise license. It will read the license from a file on disk or an environment variable and exit non-0 if the license is not valid with the Nomad binary.

This command should always be run with the new binary before upgrading Nomad on a server, as the server agent will not start with an invalid license.

Usage

```plaintext
nomad license inspect [/path/to/license.hclic]
```

Examples

With a license file argument:

```shell-session
$ nomad license inspect /path/to/nomad/license.hclic
Source: /path/to/nomad/license.hclic
Product: nomad
License ID: aaaaaaaa-aaaa-aaaa-aaaa-aaaaaaaaaaaa
Customer ID: bbbbbbbb-bbbb-bbbb-bbbb-bbbbbbbbbbbb
Installation
 ID: *
Issue Time: 2021-12-01 17:49:23.021041516 +0000 UTC
Start Time: 2021-12-01 00:00:00 +0000 UTC
Expiration Time: 2023-12-01 00:00:00 +0000 UTC
Termination Time: 2024-01-01 00:00:00 +0000 UTC
Build Date: 2000-01-01 00:00:00 +0000 UTC
Flags: {
```

```
  "modules": [
    "multicluster-and-efficiency",
    "governance-policy"
  ]
}

License is valid
```

With a license file environment variable:

```shell-session
$ export NOMAD_LICENSE_PATH=/path/to/nomad/license.hclic
$ nomad license inspect
Source: /path/to/nomad/license.hclic (path from the NOMAD_LICENSE_PATH environment variable)
Product: nomad
.....
License is valid
```

With a license string environment variable:

```shell-session
$ export NOMAD_LICENSE=full-license-text-string
$ nomad license inspect
Source: NOMAD_LICENSE environment variable
.....
License is valid
```

Example error

```shell-session
$ nomad license inspect license.hclic
...
Validation Errors:
  * license is no longer valid
  * license expiration
 date is before version build date: expiration=2023-01-13T23:59:59Z build=2023-03-17T00:00:00Z
```

1.4774 go.opentelemetry.io/otel/exporters/otlp/otlptrace 1.33.0

1.4774.1 Available under license :

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1.4775 prometheus 3.1.0

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1.4776 go.opentelemetry.io/otel/exporters/otlp/otlptrace/otlptracegrpc 1.33.0

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1.4777 google-golang-org-api 0.213.0

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1.4778 github.com/prometheus/sigv4 0.1.0

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1.4780 google-golang-org-genproto-googleapis-api 0.0.0-20241216192217-9240e9c98484

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1.4781 github.com/ionos-cloud/sdk-go/v6 6.3.0

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1.4782 go.opentelemetry.io/otel/exporters/otlp/otlptrace/otlptracehttp 1.33.0

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1.4785 python3-http-parser 0.9.0-1build4

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py25.IOBase, py25.RawIOBase, py25.BufferedReader, py25.TextIOWrapper:

Partial implementation of io classes from python 2.7. Only read functions have been ported.

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1.4786 wal2json 2.6.0

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1.4787 repmgr 5.4.1

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1.4789 postgresql-repmgr 13.16.0-10

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```
/*!
  * Wait for document loaded before starting the execution
  */
```

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1.4791 gdal 3.9.2

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port/cpl_float.cpp

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alg/thinplatespline.cpp

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frmts/pdf/pdfdataset.cpp (method PDFiumRenderPageBitmap())

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Author : Angus Johnson
Version : 6.4.0
Date : 2 July 2015
Website : http://www.angusj.com

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```
include/
mapbox
   feature.hpp
   geometry
    box.hpp
    empty.hpp
    envelope.hpp
    for_each_point.hpp
    geometry.hpp
    line_string.hpp
    multi_line_string.hpp
    multi_point.hpp
    multi_polygon.hpp
    point_arithmetic.hpp
    point.hpp
    polygon.hpp
   geometry.hpp
   geometry_io.hpp
```

2 directories, 15 files

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```
include/
mapbox
   geometry
      wagyu
         active_bound_list.hpp
         bound.hpp
         bubble_sort.hpp
         build_edges.hpp
         build_local_minima_list.hpp
         build_result.hpp
         config.hpp
         edge.hpp
         interrupt.hpp
```

intersect.hpp
intersect_util.hpp
local_minimum.hpp
local_minimum_util.hpp
point.hpp
process_horizontal.hpp
process_maxima.hpp
quick_clip.hpp
ring.hpp

ring_util.hpp
scanbeam.hpp
snap_rounding.hpp
topology_correction.hpp
util.hpp
vatti.hpp
wagyu.hpp

3 directories, 24 files

1.4794 python3-flask 2.0.1-2ubuntu1.1

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1.4797 prometheus-operator 0.79.2

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
# This source code was written by the Go contributors.
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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
 license := License{Name: "the name", URL: "the url"}
 const licenseJSON = `{"name":"the name","url":"the url"}`
```

```
const licenseYAML = "name: the name\nurl: the url\n"

assertSerializeJSON(t, license, licenseJSON)
assertParsesJSON(t, licenseJSON, license)
}
```

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//! github.com/moment/moment-timezone

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//! moment-timezone.js

//! moment.js

//! version : 0.5.34
```

1.4800 github.com/efficientgo/core 1.0.0-rc.3

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
```

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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
 license := License{Name: "the name", URL: "the url"}
 const licenseJSON = `{"name":"the name","url":"the url"}`
 const licenseYAML = "name: the name\nurl: the url\n"

 assertSerializeJSON(t, license, licenseJSON)
 assertParsesJSON(t, licenseJSON, license)
}
```

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1.4802 prometheus-community-prom-label-proxy 0.11.0

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1.4803 github.com/masslessparticle/azure-storage-blob-go 0.14.1-0.20240322194317-344980fda573

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1.4805 github.com/thanos-io/objstore 0.0.0-20230829152104-1b257a36f9a3

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1.4806 github.com/shirou/gopsutil/v4 4.24.0-alpha.1

1.4806.1 Available under license :

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* Markus Kuhn -- 2007-05-26 (Unicode 5.0)
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module _ // Auto generated by https://github.com/bwplotka/bingo. DO NOT EDIT

go 1.18

require github.com/efficientgo/tools/copyright v0.0.0-20220225185207-fe763185946b
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1.4814 prometheus 0.55.1-0.20241102120812-a6fd22b9d2c8

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1.4815 go-metro 0.0.0-20200812162917-85c65e2d0165

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This package is a mechanical translation of the reference C++ code for
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1.4834 capnproto.org/go/capnp/v3 3.0.0-alpha.30

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1.4840 kubernetes-client 0.32.0-rc.2

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1.4841 gingko 2.22.0

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1.4842 gomega 1.36.0

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1.4843 netlink 1.3.0

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1.4844 runc 1.2.1

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1.4851 kubernetes-apimachinery 0.32.0-rc.2

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1.4853 system-validators 1.9.1

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1.4854 corefile-migration 1.0.24

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```
package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
```

```
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
 SevNewDefault  = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not
present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

 // The following statuses are used for selecting/filtering notifications
 SevAll = "all" // show all statuses
)
```

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
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lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c

lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
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lib/gssapi/mechglue/g_export_name.c
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lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
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lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c

lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
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lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
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include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c

lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
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lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
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lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
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1.4870 go.opentelemetry.io/otel/exporters/otlp/otlpmetric/otlpmetricgrpc 1.34.0

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1.4881 etcd-api 3.5.18

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1.4882 k8s-io-apimachinery 0.31.4

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1.4884 google-golang-org-genproto-googleapis-api 0.0.0-20250115164207-1a7da9e5054f

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1.4885 k8s-io-api 0.31.4

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1.4887 javax-activation 1.1.1

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```

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* /opt/cola/permits/2345304672_1738855962.2064779/0/com-springsource-javax-activation-sources-1-1-1-jar/javax/activation/URLDataSource.java
* /opt/cola/permits/2345304672_1738855962.2064779/0/com-springsource-javax-activation-sources-1-1-1-jar/com/sun/activation/viewers/ImageViewerCanvas.java

* /opt/cola/permits/2345304672_1738855962.2064779/0/com-springsource-javax-activation-sources-1-1-1-jar/com/sun/activation/viewers/TextEditor.java
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* /opt/cola/permits/2345304672_1738855962.2064779/0/com-springsource-javax-activation-sources-1-1-1-jar/javax/activation/UnsupportedDataTypeException.java
* /opt/cola/permits/2345304672_1738855962.2064779/0/com-springsource-javax-activation-sources-1-1-1-

jar/javax/activation/CommandObject.java
* /opt/cola/permits/2345304672_1738855962.2064779/0/com-springsource-javax-activation-sources-1-1-1-jar/com/sun/activation/viewers/TextViewer.java
* /opt/cola/permits/2345304672_1738855962.2064779/0/com-springsource-javax-activation-sources-1-1-1-jar/javax/activation/DataHandler.java
* /opt/cola/permits/2345304672_1738855962.2064779/0/com-springsource-javax-activation-sources-1-1-1-jar/com/sun/activation/registries/MailcapFile.java
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@(#)package.html 1.2 07/05/14

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Found
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* /opt/cola/permits/2345304672_1738855962.2064779/0/com-springsource-javax-activation-sources-1-1-1-jar/javax/activation/package.html

1.4888 errdefs 0.3.0

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1.4895 go-auth-oauth2adapt 0.2.3

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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
```

```
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
```

```
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
```

```
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.InsertLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
}
op, err := c.Insert(ctx, req)
if err != nil {
 // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
 // TODO: Handle error.
}
}

func ExampleLicensesClient_List() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template
only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.ListLicensesRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
 resp, err := it.Next()
 if err == iterator.Done {
  break
 }
```

```
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp

 // If you need to access the underlying RPC response,
 // you can do so by casting the `Response` as below.
 // Otherwise, remove this line. Only populated after
 // first call to Next(). Not safe for concurrent access.
 _ = it.Response.(*computepb.LicensesListResponse)
}
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
```

```
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
```

```
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
```

```
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseCodeRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
}
resp,
err := c.TestIamPermissions(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.34.2
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
```

```
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
```

```
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
```

```
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
```

```
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
```

```
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
```

0x19, 0x67, 0x6f,
0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
0x0b, 0x67,
0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
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0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
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0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
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0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
0x64,
0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,

```
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []any{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
```

```
func
 file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:           file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:
         file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
// Copyright 2024 Google LLC
//
// Licensed under the Apache License, Version 2.0 (the "License");
// you may not use this file except in compliance with the License.
// You may obtain a copy of the License at
//
//     https://www.apache.org/licenses/LICENSE-2.0
```

```
//
// Unless required by applicable law or agreed to in writing, software
// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
```

```
return &LicensesCallOptions{
 Delete: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 Get: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 GetIamPolicy:
[]gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 Insert: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 List: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 SetIamPolicy: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 TestIamPermissions: []gax.CallOption{
```

```
   gax.WithTimeout(600000
 * time.Millisecond),
  },
 }
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
```

```
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
```

```
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
```

```
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
```

```
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient
 = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
```

```
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf,
err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
```

```
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()),
 "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err
 := unm.Unmarshal(buf, resp); err != nil {
   return err
  }
```

```
  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and
 context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
```

```
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp);
err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
```

```
if req != nil && req.RequestId != nil {
 params.Add("requestId",
fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err !=
nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
```

```
 }, opts...)
 if e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient)
 List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
  }
  if req != nil && req.MaxResults != nil {
   params.Add("maxResults",
 fmt.Sprintf("%v", req.GetMaxResults()))
  }
```

```
if req != nil && req.OrderBy != nil {
 params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
 params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
 params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return
err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
```

```
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only
 by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
```

```
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on
 the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
```

```
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type",
 "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }
```

```
 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return
nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}
```

1.4896 go-gkeconnect 0.115.0

1.4896.1 Available under license :

```
// Copyright 2024 Google LLC
//
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// limitations under the License.

// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.34.1
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"
```

```
 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
```

```
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
```

```
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
```

```
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
```

```
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor
```

```
var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
 0x0b, 0x67,
 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
 0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
 0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
```

```
 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
 0x64,
 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
 0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []interface{}{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
```

```
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init()
 }
func file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v interface{}, i int)
interface{} {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []interface{}{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:           file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes:
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:         file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
```

```
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}

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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
```

```
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
```

```
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
}
resp,
err := c.Get(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_Insert()
```

```
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
```

```
 resp, err := it.Next()
 if err == iterator.Done {
  break
 }
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp

 // If you need to access the underlying RPC response,
 // you can do so by casting the `Response` as below.
 // Otherwise, remove this line. Only populated after
 // first call to Next(). Not safe for concurrent access.
 _ = it.Response.(*computepb.LicensesListResponse)
}
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically
```

```
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
```

```
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
```

```
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseCodeRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
}
resp,
err := c.TestIamPermissions(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

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package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"

```
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete             []gax.CallOption
 Get                []gax.CallOption
 GetIamPolicy       []gax.CallOption
 Insert             []gax.CallOption
 List               []gax.CallOption
 SetIamPolicy       []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
```

```
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 Insert: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 List: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 SetIamPolicy: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 TestIamPermissions: []gax.CallOption{
  gax.WithTimeout(600000
* time.Millisecond),
 },
}
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}
```

```
// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
```

```
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
```

```
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}
```

```
func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close();
 err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
```

```
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

params := url.Values{}
if req != nil && req.RequestId != nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v",
"project", url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if
err != nil {
  return err
 }
```

```
 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds
 = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
```

```
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return
err
 }

 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()
```

```
 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return
 err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
```

```
 return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery
 = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
```

```
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if
err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) List(ctx context.Context, req
 *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
```

```
resp := &computepb.LicensesListResponse{}
if pageToken != "" {
 req.PageToken = proto.String(pageToken)
}
if pageSize > math.MaxInt32 {
 req.MaxResults = proto.Uint32(math.MaxInt32)
} else if pageSize != 0 {
 req.MaxResults = proto.Uint32(uint32(pageSize))
}
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, "", err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.Filter != nil {
 params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
}
if req != nil && req.MaxResults != nil {
 params.Add("maxResults", fmt.Sprintf("%v",
req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
 params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
 params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
 params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq.Header = headers
```

```
  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if
err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating
```

```
 Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
```

```
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource
 is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx,
 hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
```

```
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return
 nil, e
 }
 return resp, nil
}
```

1.4897 go-auth-oauth2adapt 0.2.4

1.4897.1 Available under license :

```
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
```

```
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
```

```
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
```

```
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.InsertLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
}
op, err := c.Insert(ctx, req)
if err != nil {
 // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
 // TODO: Handle error.
}
}

func ExampleLicensesClient_List() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template
only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.ListLicensesRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
 resp, err := it.Next()
 if err == iterator.Done {
  break
 }
```

```
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp

 // If you need to access the underlying RPC response,
 // you can do so by casting the `Response` as below.
 // Otherwise, remove this line. Only populated after
 // first call to Next(). Not safe for concurrent access.
 _ = it.Response.(*computepb.LicensesListResponse)
}
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
```

```
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
```

```
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
```

```
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseCodeRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
}
resp,
err := c.TestIamPermissions(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

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```
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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.34.2
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
```

```
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
```

```
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
```

```
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
```

```
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
```

```
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
```

0x19, 0x67, 0x6f,
0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
0x0b, 0x67,
0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
0x64,
0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,

```
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []any{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
```

```
func
 file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:          file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:
         file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
// Copyright 2024 Google LLC
//
// Licensed under the Apache License, Version 2.0 (the "License");
// you may not use this file except in compliance with the License.
// You may obtain a copy of the License at
//
//     https://www.apache.org/licenses/LICENSE-2.0
```

```
//
// Unless required by applicable law or agreed to in writing, software
// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
```

```
return &LicensesCallOptions{
 Delete: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 Get: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 GetIamPolicy:
[]gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 Insert: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 List: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 SetIamPolicy: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 TestIamPermissions: []gax.CallOption{
```

```
   gax.WithTimeout(600000
 * time.Millisecond),
  },
 }
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
```

```
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
```

```
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
```

```
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
```

```
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient
 = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
```

```
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf,
err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
```

```
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()),
"license", url.QueryEscape(req.GetLicense()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.License{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err
:= unm.Unmarshal(buf, resp); err != nil {
  return err
 }
```

```
  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and
 context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
```

```
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp);
err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
```

```
if req != nil && req.RequestId != nil {
 params.Add("requestId",
fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err !=
nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
```

```
 }, opts...)
 if e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient)
 List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
  }
  if req != nil && req.MaxResults != nil {
   params.Add("maxResults",
 fmt.Sprintf("%v", req.GetMaxResults()))
  }
```

```
if req != nil && req.OrderBy != nil {
 params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
 params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
 params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return
err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
```

```
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only
 by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
```

```
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on
 the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
```

```
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type",
 "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }
```

```
 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return
nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}
```

1.4898 flatbuffers-go 23.5.26+incompatible

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package compute_test
```

```
import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
```

```
 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
```

```
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
```

```
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.ListLicensesRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
 resp, err := it.Next()
 if err == iterator.Done {
  break
 }
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp

 // If you need to access the underlying RPC response,
 // you can do so by casting the `Response` as below.
 // Otherwise, remove this line. Only populated after
 // first call to Next(). Not safe for concurrent access.
 _ = it.Response.(*computepb.LicensesListResponse)
}
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
```

```
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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```

```
package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
```

```
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
// protoc-gen-go v1.34.2
// protoc   v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

```
package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
```

```
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
```

```
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":           1,
  "WRITER":          2,
  "READER":          3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
```

```
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
```

```
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
```

```
 }
 return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
 0x0b, 0x67,
 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
 0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
 0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
```

```
 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
 0x64,
 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
 0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []any{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
```

```
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func
 file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:           file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:
```

```
        file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
 MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)
```

```
var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
```

```
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  SetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000
 * time.Millisecond),
  },
 }
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient
```

```
 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
```

```
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
```

```
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
```

```
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient
 = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }
```

```
baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params",
fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
url.QueryEscape(req.GetLicense()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf,
err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
```

```
 }
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()),
 "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()
```

```
  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err
 := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and
 context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
```

```
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp);
 err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
```

```
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId",
 fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err !=
 nil {
   return err
  }
  defer httpRsp.Body.Close()
```

```
 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient)
 List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
```

```
 }
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, "", err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.Filter != nil {
  params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
 }
 if req != nil && req.MaxResults != nil {
  params.Add("maxResults",
fmt.Sprintf("%v", req.GetMaxResults()))
 }
 if req != nil && req.OrderBy != nil {
  params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req != nil && req.PageToken != nil {
  params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return
err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
```

```
    return err
   }

   buf, err := io.ReadAll(httpRsp.Body)
   if err != nil {
    return err
   }

   if err := unm.Unmarshal(buf, resp); err != nil {
    return err
   }

   return nil
  }, opts...)
  if e != nil {
   return nil, "", e
  }
  it.Response = resp
  return resp.GetItems(), resp.GetNextPageToken(), nil
 }

 fetch := func(pageSize int, pageToken string) (string, error) {
  items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
  if err != nil {
   return "", err
  }
  it.items = append(it.items, items...)
  return nextPageToken, nil
 }

 it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
 it.pageInfo.MaxSize = int(req.GetMaxResults())
 it.pageInfo.Token = req.GetPageToken()

 return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only
 by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }
```

```
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
```

```
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on
 the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type",
 "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
```

```
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return
nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}
```

1.4900 abseil-cpp-vlog-config-internal 20240722.0-r0

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1.4901 abseil-cpp-log-internal-fnmatch 20240722.0-r0

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1.4902 x-sys 0.30.0

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1.4903 x-sync 0.11.0

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1.4904 protobuf-go 1.36.5

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1.4905 protobuf 1.36.5

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1.4906 c-ares 1.33.1

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1.4907 go-gkeconnect 0.112.0

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```
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
```

```
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
```

```
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_Insert()
{
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.InsertLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
}
op, err := c.Insert(ctx, req)
if err != nil {
 // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
```

```
 // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
 }
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range
 values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
```

```
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown
 in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
// Copyright 2024 Google LLC
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
```

```
 gax.WithTimeout(600000 * time.Millisecond),
},
Get: []gax.CallOption{
 gax.WithTimeout(600000 * time.Millisecond),
 gax.WithRetry(func() gax.Retryer {
  return gax.OnHTTPCodes(gax.Backoff{
   Initial:    100 * time.Millisecond,
   Max:        60000 * time.Millisecond,
   Multiplier: 1.30,
  },
   http.StatusGatewayTimeout,
   http.StatusServiceUnavailable)
 }),
},
GetIamPolicy:
[]gax.CallOption{
 gax.WithTimeout(600000 * time.Millisecond),
 gax.WithRetry(func() gax.Retryer {
  return gax.OnHTTPCodes(gax.Backoff{
   Initial:    100 * time.Millisecond,
   Max:        60000 * time.Millisecond,
   Multiplier: 1.30,
  },
   http.StatusGatewayTimeout,
   http.StatusServiceUnavailable)
 }),
},
Insert: []gax.CallOption{
 gax.WithTimeout(600000 * time.Millisecond),
},
List: []gax.CallOption{
 gax.WithTimeout(600000 * time.Millisecond),
 gax.WithRetry(func() gax.Retryer {
  return gax.OnHTTPCodes(gax.Backoff{
   Initial:    100 * time.Millisecond,
   Max:        60000 * time.Millisecond,
   Multiplier: 1.30,
  },
   http.StatusGatewayTimeout,
   http.StatusServiceUnavailable)
 }),
},
SetIamPolicy: []gax.CallOption{
 gax.WithTimeout(600000 * time.Millisecond),
},
TestIamPermissions: []gax.CallOption{
 gax.WithTimeout(600000
```

```
 * time.Millisecond),
  },
 }
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
```

```
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
```

```
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }
```

```
 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{"x-goog-api-client", gax.XGoogHeader(kv...)}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
```

```
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns
 nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds
 = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
```

```
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil
{
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())
```

```
 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx,
 hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
```

```
// GetIamPolicy gets the access control policy for
 a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds
 = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
```

```
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return
nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()
```

```
// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v",
"project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return
err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
```

```
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm
 := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
  }
  if req != nil && req.MaxResults != nil {
   params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
  }
  if req != nil && req.OrderBy != nil {
   params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
  }
  if req !=
 nil && req.PageToken != nil {
   params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
```

```
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return
err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}
```

```
 fetch := func(pageSize int, pageToken string) (string, error) {
  items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
  if err != nil {
   return "", err
  }
  it.items = append(it.items, items...)
  return nextPageToken, nil
 }

 it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
 it.pageInfo.MaxSize = int(req.GetMaxResults())
 it.pageInfo.Token = req.GetPageToken()

 return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption)
 (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
```

```
 e
 := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx
 context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
```

```
 return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }
```

```
  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
```

```
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
```

```
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

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import (
 "bytes"
 "context"
 "fmt"
 "io"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
)

var
```

```
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get                 []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
 return &LicenseCodesCallOptions{
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient
 interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient
```

```
 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient)
 Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode,
 error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseCodesRESTClient struct {
```

```
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions
}

// NewLicenseCodesRESTClient
 creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
```

```
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{"x-goog-api-client", gax.XGoogHeader(kv...)}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return a specified license code. License codes are
 mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for
use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm
 := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
```

```
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners
 who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
```

```
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }
```

```
 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.31.0
//  protoc        v4.23.2
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
```

```
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}
```

```
func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
```

```
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //     tunedModels/{tuned_model}/permissions/{permission}
 //     corpora/{corpus}/permissions/{permission}
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
```

```
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}
```

```
func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
```

0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
0x0b, 0x67,
0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
0x64,
0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,

```
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []interface{}{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init()
 }
func file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v interface{}, i int)
interface{} {
```

```
  switch v := v.(*Permission); i {
  case 0:
   return &v.state
  case 1:
   return &v.sizeCache
  case 2:
   return &v.unknownFields
  default:
   return nil
  }
 }
}
file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []interface{}{}
type x struct{}
out := protoimpl.TypeBuilder{
 File: protoimpl.DescBuilder{
  GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
  RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
  NumEnums:      2,
  NumMessages:   1,
  NumExtensions: 0,
  NumServices:   0,
 },
 GoTypes:          file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
 DependencyIndexes:
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
 EnumInfos:         file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
 MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
```

1.4908 go-auth-oauth2adapt 0.2.6

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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}
```

```
func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
```

```
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
```

```
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
```

```
 _ = it.Response.(*computepb.LicensesListResponse)
 }
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
```

```
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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//go:build go1.23

package procurement_test

import (
 "context"

 procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
 procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
)

func ExampleLicenseManagementClient_EnumerateLicensedUsers_all() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()
```

```
 req := &procurementpb.EnumerateLicensedUsersRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
dUsersRequest.
 }
 for resp, err := range c.EnumerateLicensedUsers(ctx, req).All() {
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
 }
}
```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.34.2
//  protoc        v4.25.3
// source: google/cloud/commerce/consumer/procurement/v1/license_management_service.proto

package procurementpb

import (
 context "context"
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 grpc "google.golang.org/grpc"
 codes "google.golang.org/grpc/codes"
 status
 "google.golang.org/grpc/status"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
 durationpb "google.golang.org/protobuf/types/known/durationpb"
 fieldmaskpb "google.golang.org/protobuf/types/known/fieldmaskpb"
 timestamppb "google.golang.org/protobuf/types/known/timestamppb"
```

```
)

const (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Assignment protocol for a license pool.
type AssignmentProtocol struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // The type of assignment protocol.
 //
 // Types that are assignable to AssignmentType:
 //
 // *AssignmentProtocol_ManualAssignmentType_
 // *AssignmentProtocol_AutoAssignmentType_
 AssignmentType
 isAssignmentProtocol_AssignmentType `protobuf_oneof:"assignment_type"`
}

func (x *AssignmentProtocol) Reset() {
 *x = AssignmentProtocol{}
 if protoimpl.UnsafeEnabled {
  mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *AssignmentProtocol) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol) ProtoMessage() {}

func (x *AssignmentProtocol) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
```

```
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol) Descriptor() ([]byte,
 []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{0}
}

func (m *AssignmentProtocol) GetAssignmentType() isAssignmentProtocol_AssignmentType {
 if m != nil {
  return m.AssignmentType
 }
 return nil
}

func (x *AssignmentProtocol) GetManualAssignmentType() *AssignmentProtocol_ManualAssignmentType {
 if x, ok := x.GetAssignmentType().(*AssignmentProtocol_ManualAssignmentType_); ok {
  return x.ManualAssignmentType
 }
 return nil
}

func (x *AssignmentProtocol) GetAutoAssignmentType() *AssignmentProtocol_AutoAssignmentType {
 if x, ok := x.GetAssignmentType().(*AssignmentProtocol_AutoAssignmentType_); ok {
  return x.AutoAssignmentType
 }
 return nil
}

type isAssignmentProtocol_AssignmentType interface {
 isAssignmentProtocol_AssignmentType()
}

type AssignmentProtocol_ManualAssignmentType_ struct {
 // Allow manual assignments triggered by administrative operations only.
 ManualAssignmentType *AssignmentProtocol_ManualAssignmentType
 `protobuf:"bytes,2,opt,name=manual_assignment_type,json=manualAssignmentType,proto3,oneof"`
}

type AssignmentProtocol_AutoAssignmentType_ struct {
 // Allow automatic assignments triggered by data plane operations.
 AutoAssignmentType *AssignmentProtocol_AutoAssignmentType
```

```
`protobuf:"bytes,3,opt,name=auto_assignment_type,json=autoAssignmentType,proto3,oneof"`
}

func (*AssignmentProtocol_ManualAssignmentType_) isAssignmentProtocol_AssignmentType() {}

func (*AssignmentProtocol_AutoAssignmentType_) isAssignmentProtocol_AssignmentType() {}

// A license pool represents a pool of licenses that can be assigned to users.
type LicensePool struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Identifier. Format:
 // `billingAccounts/{billing_account}/orders/{order}/licensePool`
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Required. Assignment protocol for the license
 pool.
 LicenseAssignmentProtocol *AssignmentProtocol
`protobuf:"bytes,2,opt,name=license_assignment_protocol,json=licenseAssignmentProtocol,proto3"
json:"license_assignment_protocol,omitempty"`
 // Output only. Licenses count that are available to be assigned.
 AvailableLicenseCount int32
`protobuf:"varint,3,opt,name=available_license_count,json=availableLicenseCount,proto3"
json:"available_license_count,omitempty"`
 // Output only. Total number of licenses in the pool.
 TotalLicenseCount int32 `protobuf:"varint,4,opt,name=total_license_count,json=totalLicenseCount,proto3"
json:"total_license_count,omitempty"`
}

func (x *LicensePool) Reset() {
 *x = LicensePool{}
 if protoimpl.UnsafeEnabled {
  mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *LicensePool) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*LicensePool)
 ProtoMessage() {}

func (x *LicensePool) ProtoReflect() protoreflect.Message {
```

```
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use LicensePool.ProtoReflect.Descriptor instead.
func (*LicensePool) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{1}
}

func (x *LicensePool) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *LicensePool) GetLicenseAssignmentProtocol() *AssignmentProtocol {
 if x != nil {
  return x.LicenseAssignmentProtocol
 }
 return nil
}

func (x *LicensePool) GetAvailableLicenseCount() int32 {
 if x != nil {
  return x.AvailableLicenseCount
 }
 return 0
}

func (x *LicensePool)
 GetTotalLicenseCount() int32 {
 if x != nil {
  return x.TotalLicenseCount
 }
 return 0
}
```

```
// Request message for getting a license pool.
type GetLicensePoolRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. The name of the license pool to get.
 // Format: `billingAccounts/{billing_account}/orders/{order}/licensePool`
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
}

func (x *GetLicensePoolRequest) Reset() {
 *x = GetLicensePoolRequest{}
 if protoimpl.UnsafeEnabled {
  mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *GetLicensePoolRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*GetLicensePoolRequest) ProtoMessage() {}

func (x *GetLicensePoolRequest) ProtoReflect() protoreflect.Message
 {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use GetLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*GetLicensePoolRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{2}
}
```

```
func (x *GetLicensePoolRequest) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

// Request message for updating a license pool.
type UpdateLicensePoolRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. The license pool to update.
 //
 // The license pool's name field is used to identify the license pool to
 // update. Format:
 //
 `billingAccounts/{billing_account}/orders/{order}/licensePool`.
 LicensePool *LicensePool `protobuf:"bytes,1,opt,name=license_pool,json=licensePool,proto3"
json:"license_pool,omitempty"`
 // Required. The list of fields to update.
 UpdateMask *fieldmaskpb.FieldMask `protobuf:"bytes,2,opt,name=update_mask,json=updateMask,proto3"
json:"update_mask,omitempty"`
}

func (x *UpdateLicensePoolRequest) Reset() {
 *x = UpdateLicensePoolRequest{}
 if protoimpl.UnsafeEnabled {
  mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *UpdateLicensePoolRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*UpdateLicensePoolRequest) ProtoMessage() {}

func (x *UpdateLicensePoolRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
 if
 protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
```

```
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use UpdateLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*UpdateLicensePoolRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{3}
}

func (x *UpdateLicensePoolRequest) GetLicensePool() *LicensePool {
 if x != nil {
  return x.LicensePool
 }
 return nil
}

func (x *UpdateLicensePoolRequest) GetUpdateMask() *fieldmaskpb.FieldMask {
 if x != nil {
  return x.UpdateMask
 }
 return nil
}

// Request message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementServic
e.Assign].
type AssignRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 //
 Required. License pool name.
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Required. Username.
 // Format: `name@domain.com`.
 Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func (x *AssignRequest) Reset() {
 *x = AssignRequest{}
```

```
 if protoimpl.UnsafeEnabled {
  mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *AssignRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignRequest) ProtoMessage() {}

func (x *AssignRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return
 ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignRequest.ProtoReflect.Descriptor instead.
func (*AssignRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{4}
}

func (x *AssignRequest) GetParent() string {
 if x != nil {
  return x.Parent
 }
 return ""
}

func (x *AssignRequest) GetUsernames() []string {
 if x != nil {
  return x.Usernames
 }
 return nil
}
```

```
// Response message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementServic
e.Assign].
type AssignResponse struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
}

func (x *AssignResponse) Reset() {
 *x = AssignResponse{}
 if protoimpl.UnsafeEnabled {
  mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func
 (x *AssignResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignResponse) ProtoMessage() {}

func (x *AssignResponse) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignResponse.ProtoReflect.Descriptor instead.
func (*AssignResponse) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{5}
}
```

```
// Request message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignRequest struct {
 state         protoimpl.MessageState
 sizeCache
     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. License pool name.
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Required. Username.
 // Format: `name@domain.com`.
 Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func (x *UnassignRequest) Reset() {
 *x = UnassignRequest{}
 if protoimpl.UnsafeEnabled {
  mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *UnassignRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*UnassignRequest) ProtoMessage() {}

func (x *UnassignRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if
 ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use UnassignRequest.ProtoReflect.Descriptor instead.
```

```
func (*UnassignRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{6}
}

func (x *UnassignRequest) GetParent() string {
 if x != nil {
  return x.Parent
 }
 return ""
}

func (x *UnassignRequest) GetUsernames() []string {
 if x != nil {
  return x.Usernames
 }
 return nil
}

// Response message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignResponse struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
}

func (x *UnassignResponse) Reset() {
 *x = UnassignResponse{}
 if protoimpl.UnsafeEnabled {
  mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
  ms
 := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *UnassignResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*UnassignResponse) ProtoMessage() {}

func (x *UnassignResponse) ProtoReflect() protoreflect.Message {
```

```
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use UnassignResponse.ProtoReflect.Descriptor instead.
func (*UnassignResponse) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{7}
}

// Request message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type
 EnumerateLicensedUsersRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. License pool name.
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Optional. The maximum number of users to return. The service may return
 // fewer than this value.
 PageSize int32 `protobuf:"varint,2,opt,name=page_size,json=pageSize,proto3" json:"page_size,omitempty"`
 // Optional. A page token, received from a previous `EnumerateLicensedUsers`
 // call. Provide this to retrieve the subsequent page.
 PageToken string `protobuf:"bytes,3,opt,name=page_token,json=pageToken,proto3" json:"page_token,omitempty"`
}

func (x *EnumerateLicensedUsersRequest) Reset() {
 *x = EnumerateLicensedUsersRequest{}
 if protoimpl.UnsafeEnabled {
  mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
  ms
 := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
```

```
}

func (x *EnumerateLicensedUsersRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersRequest) ProtoMessage() {}

func (x *EnumerateLicensedUsersRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersRequest.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{8}
}

func (x *EnumerateLicensedUsersRequest) GetParent() string {
 if
 x != nil {
  return x.Parent
 }
 return ""
}

func (x *EnumerateLicensedUsersRequest) GetPageSize() int32 {
 if x != nil {
  return x.PageSize
 }
 return 0
}

func (x *EnumerateLicensedUsersRequest) GetPageToken() string {
 if x != nil {
  return x.PageToken
 }
 return ""
```

```
}

// A licensed user.
type LicensedUser struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Username.
 // Format: `name@domain.com`.
 Username string `protobuf:"bytes,1,opt,name=username,proto3" json:"username,omitempty"`
 // Output only. Timestamp when the license was assigned.
 AssignTime *timestamppb.Timestamp `protobuf:"bytes,2,opt,name=assign_time,json=assignTime,proto3"
json:"assign_time,omitempty"`
 // Output only. Timestamp when the license was recently used. This may not be
 // the most recent usage time, and will be updated regularly (within 24
 // hours).
 RecentUsageTime *timestamppb.Timestamp
`protobuf:"bytes,3,opt,name=recent_usage_time,json=recentUsageTime,proto3"
 json:"recent_usage_time,omitempty"`
}

func (x *LicensedUser) Reset() {
 *x = LicensedUser{}
 if protoimpl.UnsafeEnabled {
  mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *LicensedUser) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*LicensedUser) ProtoMessage() {}

func (x *LicensedUser) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
```

```
 return mi.MessageOf(x)
}

// Deprecated: Use LicensedUser.ProtoReflect.Descriptor instead.
func (*LicensedUser) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
 []int{9}
}

func (x *LicensedUser) GetUsername() string {
 if x != nil {
  return x.Username
 }
 return ""
}

func (x *LicensedUser) GetAssignTime() *timestamppb.Timestamp {
 if x != nil {
  return x.AssignTime
 }
 return nil
}

func (x *LicensedUser) GetRecentUsageTime() *timestamppb.Timestamp {
 if x != nil {
  return x.RecentUsageTime
 }
 return nil
}

// Response message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersResponse struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // The list of licensed users.
 LicensedUsers []*LicensedUser `protobuf:"bytes,1,rep,name=licensed_users,json=licensedUsers,proto3"
json:"licensed_users,omitempty"`
 // A token that can be sent as `page_token` to retrieve the next page.
 //
 If this field is omitted, there are no subsequent pages.
 NextPageToken string `protobuf:"bytes,2,opt,name=next_page_token,json=nextPageToken,proto3"
json:"next_page_token,omitempty"`
```

```
}

func (x *EnumerateLicensedUsersResponse) Reset() {
 *x = EnumerateLicensedUsersResponse{}
 if protoimpl.UnsafeEnabled {
  mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *EnumerateLicensedUsersResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersResponse) ProtoMessage() {}

func (x *EnumerateLicensedUsersResponse) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return
 ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersResponse.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersResponse) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{10}
}

func (x *EnumerateLicensedUsersResponse) GetLicensedUsers() []*LicensedUser {
 if x != nil {
  return x.LicensedUsers
 }
 return nil
}

func (x *EnumerateLicensedUsersResponse) GetNextPageToken() string {
 if x != nil {
```

```
  return x.NextPageToken
 }
 return ""
}

// Allow manual assignments triggered by administrative operations only.
type AssignmentProtocol_ManualAssignmentType struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
}

func (x *AssignmentProtocol_ManualAssignmentType) Reset() {
 *x = AssignmentProtocol_ManualAssignmentType{}
 if protoimpl.UnsafeEnabled {
  mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
  ms
 := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *AssignmentProtocol_ManualAssignmentType) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_ManualAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_ManualAssignmentType) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol_ManualAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_ManualAssignmentType) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
 []int{0, 0}
}
```

```
// Configuration for automatic assignments handled by data plane operations.
type AssignmentProtocol_AutoAssignmentType struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Optional. The time to live for an inactive license. After this time has
 // passed, the license will be automatically unassigned from the user. Must
 // be at least 7 days, if set. If unset, the license will never expire.
 InactiveLicenseTtl *durationpb.Duration
`protobuf:"bytes,1,opt,name=inactive_license_ttl,json=inactiveLicenseTtl,proto3"
json:"inactive_license_ttl,omitempty"`
}

func (x *AssignmentProtocol_AutoAssignmentType) Reset() {
 *x = AssignmentProtocol_AutoAssignmentType{}
 if protoimpl.UnsafeEnabled {
  mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func
 (x *AssignmentProtocol_AutoAssignmentType) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_AutoAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_AutoAssignmentType) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol_AutoAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_AutoAssignmentType) Descriptor() ([]byte, []int) {
 return
```

```
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{0, 1}
}

func (x *AssignmentProtocol_AutoAssignmentType) GetInactiveLicenseTtl() *durationpb.Duration {
 if x != nil {
  return x.InactiveLicenseTtl
 }
 return
 nil
}

var File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto
protoreflect.FileDescriptor

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc =
[]byte{
 0x0a, 0x4e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2f, 0x63,
 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x76, 0x31, 0x2f,
 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x6d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65,
 0x6e, 0x74, 0x5f, 0x73, 0x65, 0x72, 0x76, 0x69, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f,
 0x12, 0x2d, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63,
 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76,
 0x31, 0x1a,
 0x1c, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x61, 0x6e, 0x6e, 0x6f,
 0x74, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x73, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x17, 0x67,
 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x63, 0x6c, 0x69, 0x65, 0x6e, 0x74,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61,
 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f,
 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f,
 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f,
 0x74, 0x6f, 0x1a, 0x1e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
 0x62, 0x75, 0x66, 0x2f, 0x64, 0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x2e, 0x70, 0x72, 0x6f,
 0x74, 0x6f, 0x1a, 0x20, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
 0x62, 0x75, 0x66,
 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x6d, 0x61, 0x73, 0x6b, 0x2e, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f,
 0x74, 0x6f, 0x62, 0x75, 0x66, 0x2f, 0x74, 0x69, 0x6d, 0x65, 0x73, 0x74, 0x61, 0x6d, 0x70, 0x2e,
 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0xc3, 0x03, 0x0a, 0x12, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e,
 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x8e, 0x01, 0x0a,
 0x16, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65,
 0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x56, 0x2e,
 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d,
 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70,
 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73,
 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74,
```

0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c,
0x2e, 0x4d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e,
0x74, 0x54, 0x79, 0x70, 0x65, 0x48, 0x00, 0x52, 0x14, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41,
0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x88, 0x01,
0x0a, 0x14, 0x61, 0x75, 0x74, 0x6f, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e,
0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x03, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x54, 0x2e, 0x67,
0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d,
0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72,
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0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x2e,
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0x74, 0x54, 0x79,
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0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65,
0x1a, 0x66, 0x0a, 0x12, 0x41, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65,
0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x50, 0x0a, 0x14, 0x69, 0x6e, 0x61, 0x63, 0x74, 0x69,
0x76, 0x65, 0x5f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x74, 0x74, 0x6c, 0x18, 0x01,
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0x6f, 0x74, 0x6f, 0x62, 0x75, 0x66, 0x2e, 0x44, 0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x42,
0x03, 0xe0, 0x41, 0x01, 0x52, 0x12, 0x69, 0x6e, 0x61, 0x63, 0x74, 0x69, 0x76, 0x65, 0x4c, 0x69,
0x63, 0x65, 0x6e, 0x73, 0x65, 0x54, 0x74, 0x6c, 0x42, 0x11, 0x0a, 0x0f, 0x61, 0x73, 0x73, 0x69,
0x67, 0x6e,
0x6d, 0x65, 0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x22, 0xbe, 0x03, 0x0a, 0x0b,
0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x12, 0x17, 0x0a, 0x04, 0x6e,
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0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x5f, 0x70, 0x72, 0x6f, 0x74,
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0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72,
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0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x42, 0x03, 0xe0,
0x41, 0x02, 0x52, 0x19, 0x6c, 0x69, 0x63,
0x65, 0x6e, 0x73, 0x65, 0x41, 0x73, 0x73, 0x69, 0x67,
0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x3b, 0x0a,
0x17, 0x61, 0x76, 0x61, 0x69, 0x6c, 0x61, 0x62, 0x6c, 0x65, 0x5f, 0x6c, 0x69, 0x63, 0x65, 0x6e,
0x73, 0x65, 0x5f, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x18, 0x03, 0x20, 0x01, 0x28, 0x05, 0x42, 0x03,
0xe0, 0x41, 0x03, 0x52, 0x15, 0x61, 0x76, 0x61, 0x69, 0x6c, 0x61, 0x62, 0x6c, 0x65, 0x4c, 0x69,
0x63, 0x65, 0x6e, 0x73, 0x65, 0x43, 0x6f, 0x75, 0x6e, 0x74, 0x12, 0x33, 0x0a, 0x13, 0x74, 0x6f,
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0x74, 0x18, 0x04, 0x20, 0x01, 0x28, 0x05, 0x42, 0x03, 0xe0, 0x41, 0x03, 0x52, 0x11, 0x74, 0x6f,
0x74, 0x61, 0x6c, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x43, 0x6f, 0x75, 0x6e, 0x74, 0x3a,
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0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50,

0x6f, 0x6f, 0x6c, 0x12, 0x3c, 0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67, 0x41, 0x63, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x73, 0x2f, 0x7b, 0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67, 0x5f, 0x61, 0x63, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x7d, 0x2f, 0x6f, 0x72, 0x64, 0x65, 0x72, 0x73, 0x2f, 0x7b, 0x6f, 0x72, 0x64, 0x65, 0x72, 0x7d, 0x2f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x2a, 0x0c, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x73, 0x32, 0x0b, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x22, 0x30, 0x0a, 0x15, 0x47, 0x65, 0x74, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x52, 0x65, 0x71, 0x75, 0x65, 0x73, 0x74, 0x12, 0x17, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01, 0x20, 0x01,
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0x41, 0x3a, 0x01, 0x2a, 0x22, 0x3c, 0x2f, 0x76, 0x31,
0x2f, 0x7b, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x3d, 0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67,
0x41, 0x63, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x73, 0x2f, 0x2a, 0x2f, 0x6f, 0x72, 0x64, 0x65, 0x72,
0x73, 0x2f, 0x2a, 0x2f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x7d,
0x3a, 0x75, 0x6e, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x12, 0x92, 0x02, 0x0a, 0x16, 0x45, 0x6e,
0x75, 0x6d, 0x65, 0x72, 0x61, 0x74, 0x65, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x64, 0x55,
0x73, 0x65, 0x72, 0x73, 0x12, 0x4c, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c,
0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e,
0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e,
0x74, 0x2e, 0x76, 0x31, 0x2e, 0x45, 0x6e, 0x75, 0x6d, 0x65, 0x72, 0x61, 0x74, 0x65, 0x4c, 0x69,
0x63, 0x65, 0x6e, 0x73, 0x65, 0x64, 0x55, 0x73, 0x65, 0x72, 0x73, 0x52,

```
 0x65, 0x71, 0x75, 0x65,
 0x73, 0x74, 0x1a, 0x4d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75,
 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75,
 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e,
 0x76, 0x31, 0x2e, 0x45, 0x6e, 0x75, 0x6d, 0x65, 0x72, 0x61, 0x74, 0x65, 0x4c, 0x69, 0x63, 0x65,
 0x6e, 0x73, 0x65, 0x64, 0x55, 0x73, 0x65, 0x72, 0x73, 0x52, 0x65, 0x73, 0x70, 0x6f, 0x6e, 0x73,
 0x65, 0x22, 0x5b, 0xda, 0x41, 0x06, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x82, 0xd3, 0xe4, 0x93,
 0x02, 0x4c, 0x12, 0x4a, 0x2f, 0x76, 0x31, 0x2f, 0x7b, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x3d,
 0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67, 0x41, 0x63, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x73, 0x2f,
 0x2a, 0x2f, 0x6f, 0x72, 0x64, 0x65, 0x72, 0x73, 0x2f, 0x2a, 0x2f, 0x6c, 0x69, 0x63, 0x65, 0x6e,
 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x7d, 0x3a, 0x65, 0x6e, 0x75, 0x6d, 0x65, 0x72, 0x61, 0x74,
 0x65,
 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x64, 0x55, 0x73, 0x65, 0x72, 0x73, 0x1a, 0x63,
 0xca, 0x41, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65,
 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d,
 0x65, 0x6e, 0x74, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63,
 0x6f, 0x6d, 0xd2, 0x41, 0x2e, 0x68, 0x74, 0x74, 0x70, 0x73, 0x3a, 0x2f, 0x2f, 0x77, 0x77, 0x77,
 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d, 0x2f,
 0x61, 0x75, 0x74, 0x68, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2d, 0x70, 0x6c, 0x61, 0x74, 0x66,
 0x6f, 0x72, 0x6d, 0x42, 0xbe, 0x02, 0x0a, 0x31, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67,
 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63,
 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75,
 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74,
 0x2e, 0x76, 0x31, 0x42, 0x1d, 0x4c, 0x69, 0x63, 0x65, 0x6e,
 0x73, 0x65, 0x4d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x53, 0x65, 0x72, 0x76,
 0x69, 0x63, 0x65, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x53, 0x63, 0x6c, 0x6f, 0x75,
 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x67, 0x6f, 0x2f,
 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65,
 0x72, 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x61, 0x70,
 0x69, 0x76, 0x31, 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x70,
 0x62, 0x3b, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x70, 0x62, 0xaa,
 0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x43,
 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
 0x2e, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e,
 0x74, 0x2e, 0x56, 0x31, 0xca,
 0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x5c, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x5c, 0x43,
 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x5c, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
 0x5c, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x5c, 0x56, 0x31, 0xea,
 0x02, 0x32, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x3a, 0x3a, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x3a,
 0x3a, 0x43, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x3a, 0x3a, 0x43, 0x6f, 0x6e, 0x73, 0x75,
 0x6d, 0x65, 0x72, 0x3a, 0x3a, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74,
 0x3a, 0x3a, 0x56, 0x31, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce
sync.Once
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
```

```
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc
)

func
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP()
[]byte {
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce.Do(f
unc() {
  file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_cloud_commerce_consumer_procurement_v1_license_management_servi
ce_proto_rawDescData)
 })
 return file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
}

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes =
make([]protoimpl.MessageInfo, 13)
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes =
[]any{
 (*AssignmentProtocol)(nil),                    // 0:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
 (*LicensePool)(nil),                           // 1: google.cloud.commerce.consumer.procurement.v1.LicensePool
 (*GetLicensePoolRequest)(nil),
                    // 2: google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
 (*UpdateLicensePoolRequest)(nil),              // 3:
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
 (*AssignRequest)(nil),                         // 4: google.cloud.commerce.consumer.procurement.v1.AssignRequest
 (*AssignResponse)(nil),                        // 5: google.cloud.commerce.consumer.procurement.v1.AssignResponse
 (*UnassignRequest)(nil),                       // 6: google.cloud.commerce.consumer.procurement.v1.UnassignRequest
 (*UnassignResponse)(nil),                      // 7: google.cloud.commerce.consumer.procurement.v1.UnassignResponse
 (*EnumerateLicensedUsersRequest)(nil),         // 8:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
 (*LicensedUser)(nil),                          // 9: google.cloud.commerce.consumer.procurement.v1.LicensedUser
 (*EnumerateLicensedUsersResponse)(nil),
         // 10: google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
 (*AssignmentProtocol_ManualAssignmentType)(nil), // 11:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
 (*AssignmentProtocol_AutoAssignmentType)(nil),   // 12:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
 (*fieldmaskpb.FieldMask)(nil),                 // 13: google.protobuf.FieldMask
 (*timestamppb.Timestamp)(nil),                 // 14: google.protobuf.Timestamp
 (*durationpb.Duration)(nil),                   // 15: google.protobuf.Duration
}
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs =
[]int32{
 11, // 0:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.manual_assignment_type:type_name ->
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
```

```
 12, // 1: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.auto_assignment_type:type_name
 -> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
 0,  // 2: google.cloud.commerce.consumer.procurement.v1.LicensePool.license_assignment_protocol:type_name ->
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
 1,  // 3: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.license_pool:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 13, // 4: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.update_mask:type_name ->
google.protobuf.FieldMask
 14, // 5: google.cloud.commerce.consumer.procurement.v1.LicensedUser.assign_time:type_name ->
google.protobuf.Timestamp
 14, // 6: google.cloud.commerce.consumer.procurement.v1.LicensedUser.recent_usage_time:type_name ->
google.protobuf.Timestamp
 9,  // 7:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse.licensed_users:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensedUser
 15,
 // 8:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType.inactive_license_ttl:t
ype_name -> google.protobuf.Duration
 2,  // 9: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:input_type -
> google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
 3,  // 10:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:input_type ->
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
 4,  // 11: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:input_type ->
google.cloud.commerce.consumer.procurement.v1.AssignRequest
 6,  // 12: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:input_type ->
google.cloud.commerce.consumer.procurement.v1.UnassignRequest
 8,  // 13:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:input_typ
e
 -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
 1,  // 14:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 1,  // 15:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 5,  // 16: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:output_type ->
google.cloud.commerce.consumer.procurement.v1.AssignResponse
 7,  // 17: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:output_type ->
google.cloud.commerce.consumer.procurement.v1.UnassignResponse
 10, // 18:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:output_ty
pe -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
 14, // [14:19] is
 the sub-list for method output_type
 9,  // [9:14] is the sub-list for method input_type
```

```
 9,  // [9:9] is the sub-list for extension type_name
 9,  // [9:9] is the sub-list for extension extendee
 0,  // [0:9] is the sub-list for field type_name
}

func init() {
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init()
}
func file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init() {
 if File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].Expor
ter = func(v any, i int) any {
   switch v := v.(*AssignmentProtocol); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1].Expor
ter
 = func(v any, i int) any {
   switch v := v.(*LicensePool); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2].Expor
ter = func(v any, i int) any {
   switch v := v.(*GetLicensePoolRequest); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
```

```
    return &v.unknownFields
   default:
    return nil
   }
  }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3].Expor
ter = func(v any, i int) any {
   switch v := v.(*UpdateLicensePoolRequest); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4].Expor
ter = func(v any, i int)
 any {
   switch v := v.(*AssignRequest); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5].Expor
ter = func(v any, i int) any {
   switch v := v.(*AssignResponse); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6].Expor
ter = func(v any, i int) any {
   switch v := v.(*UnassignRequest); i {
```

```
  case 0:
   return &v.state
  case 1:
   return &v.sizeCache
  case 2:
   return &v.unknownFields
  default:
   return nil
  }
 }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7].Exporter = func(v any, i int) any {
  switch v := v.(*UnassignResponse); i {
  case
 0:
   return &v.state
  case 1:
   return &v.sizeCache
  case 2:
   return &v.unknownFields
  default:
   return nil
  }
 }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8].Exporter = func(v any, i int) any {
  switch v := v.(*EnumerateLicensedUsersRequest); i {
  case 0:
   return &v.state
  case 1:
   return &v.sizeCache
  case 2:
   return &v.unknownFields
  default:
   return nil
  }
 }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9].Exporter = func(v any, i int) any {
  switch v := v.(*LicensedUser); i {
  case 0:
   return &v.state
  case 1:
   return &v.sizeCache
  case 2:
   return &v.unknownFields
  default:
   return nil
```

```
  }
 }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10].Exp
orter = func(v any, i int) any {
  switch v := v.(*EnumerateLicensedUsersResponse); i {
  case 0:
   return &v.state
  case
 1:
   return &v.sizeCache
  case 2:
   return &v.unknownFields
  default:
   return nil
  }
 }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11].Exp
orter = func(v any, i int) any {
  switch v := v.(*AssignmentProtocol_ManualAssignmentType); i {
  case 0:
   return &v.state
  case 1:
   return &v.sizeCache
  case 2:
   return &v.unknownFields
  default:
   return nil
  }
 }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12].Exp
orter = func(v any, i int) any {
  switch v := v.(*AssignmentProtocol_AutoAssignmentType); i {
  case 0:
   return &v.state
  case 1:
   return &v.sizeCache
  case 2:
   return &v.unknownFields
  default:
   return nil
  }
 }
}
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].Oneof
Wrappers = []any{
 (*AssignmentProtocol_ManualAssignmentType_)(nil),
 (*AssignmentProtocol_AutoAssignmentType_)(nil),
}
```

```
 type
 x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc,
   NumEnums:      0,
   NumMessages:   13,
   NumExtensions: 0,
   NumServices:   1,
  },
  GoTypes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes,
  DependencyIndexes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs,
  MessageInfos:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes,
 }.Build()
 File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto = out.File
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc = nil
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes = nil
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs
 = nil
}

// Reference imports to suppress errors if they are not otherwise used.
var _ context.Context
var _ grpc.ClientConnInterface

// This is a compile-time assertion to ensure that this generated file
// is compatible with the grpc package it is being compiled against.
const _ = grpc.SupportPackageIsVersion6

// LicenseManagementServiceClient is the client API for LicenseManagementService service.
//
// For semantics around ctx use and closing/ending streaming RPCs, please refer to
https://godoc.org/google.golang.org/grpc#ClientConn.NewStream.
type LicenseManagementServiceClient interface {
 // Gets the license pool.
 GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
 // Updates the license pool if one exists for this Order.
 UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool,
 error)
 // Assigns a license to a user.
 Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error)
 // Unassigns a license from a user.
 Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error)
```

```
 // Enumerates all users assigned a license.
 EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption)
(*EnumerateLicensedUsersResponse, error)
}

type licenseManagementServiceClient struct {
 cc grpc.ClientConnInterface
}

func NewLicenseManagementServiceClient(cc grpc.ClientConnInterface) LicenseManagementServiceClient {
 return &licenseManagementServiceClient{cc}
}

func (c *licenseManagementServiceClient) GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts
...grpc.CallOption) (*LicensePool, error) {
 out := new(LicensePool)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool", in, out,
 opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

func (c *licenseManagementServiceClient) UpdateLicensePool(ctx context.Context, in
*UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
 out := new(LicensePool)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool", in, out,
opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

func (c *licenseManagementServiceClient) Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption)
(*AssignResponse, error) {
 out := new(AssignResponse)
 err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign", in,
out, opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}
```

```
func (c *licenseManagementServiceClient) Unassign(ctx context.Context, in *UnassignRequest, opts
...grpc.CallOption) (*UnassignResponse, error) {
 out := new(UnassignResponse)
 err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
 in, out, opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

func (c *licenseManagementServiceClient) EnumerateLicensedUsers(ctx context.Context, in
*EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error) {
 out := new(EnumerateLicensedUsersResponse)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers", in, out,
opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

// LicenseManagementServiceServer is the server API for LicenseManagementService service.
type LicenseManagementServiceServer interface {
 // Gets the license pool.
 GetLicensePool(context.Context, *GetLicensePoolRequest) (*LicensePool, error)
 // Updates the license pool if one exists for this Order.
 UpdateLicensePool(context.Context, *UpdateLicensePoolRequest) (*LicensePool, error)
 // Assigns a license to
 a user.
 Assign(context.Context, *AssignRequest) (*AssignResponse, error)
 // Unassigns a license from a user.
 Unassign(context.Context, *UnassignRequest) (*UnassignResponse, error)
 // Enumerates all users assigned a license.
 EnumerateLicensedUsers(context.Context, *EnumerateLicensedUsersRequest)
(*EnumerateLicensedUsersResponse, error)
}

// UnimplementedLicenseManagementServiceServer can be embedded to have forward compatible
implementations.
type UnimplementedLicenseManagementServiceServer struct {
}

func (*UnimplementedLicenseManagementServiceServer) GetLicensePool(context.Context,
*GetLicensePoolRequest) (*LicensePool, error) {
 return nil, status.Errorf(codes.Unimplemented, "method GetLicensePool not implemented")
}
```

```
func (*UnimplementedLicenseManagementServiceServer) UpdateLicensePool(context.Context,
*UpdateLicensePoolRequest) (*LicensePool, error) {
 return nil, status.Errorf(codes.Unimplemented, "method UpdateLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer)
 Assign(context.Context, *AssignRequest) (*AssignResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method Assign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Unassign(context.Context, *UnassignRequest)
(*UnassignResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method Unassign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) EnumerateLicensedUsers(context.Context,
*EnumerateLicensedUsersRequest) (*EnumerateLicensedUsersResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method EnumerateLicensedUsers not implemented")
}

func RegisterLicenseManagementServiceServer(s *grpc.Server, srv LicenseManagementServiceServer) {
 s.RegisterService(&_LicenseManagementService_serviceDesc, srv)
}

func _LicenseManagementService_GetLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in
 := new(GetLicensePoolRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, req.(*GetLicensePoolRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_UpdateLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(UpdateLicensePoolRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
```

```
 return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod:
 "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, req.(*UpdateLicensePoolRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Assign_Handler(srv interface{}, ctx context.Context, dec func(interface{})
error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(AssignRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).Assign(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).Assign(ctx, req.(*AssignRequest))
 }
 return
 interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Unassign_Handler(srv interface{}, ctx context.Context, dec func(interface{})
error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(UnassignRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).Unassign(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).Unassign(ctx, req.(*UnassignRequest))
```

```
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_EnumerateLicensedUsers_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(EnumerateLicensedUsersRequest)
 if err
 := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod:
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx,
req.(*EnumerateLicensedUsersRequest))
 }
 return interceptor(ctx, in, info, handler)
}

var _LicenseManagementService_serviceDesc = grpc.ServiceDesc{
 ServiceName: "google.cloud.commerce.consumer.procurement.v1.LicenseManagementService",
 HandlerType: (*LicenseManagementServiceServer)(nil),
 Methods: []grpc.MethodDesc{
  {
   MethodName: "GetLicensePool",
   Handler:    _LicenseManagementService_GetLicensePool_Handler,
  },
  {
   MethodName: "UpdateLicensePool",
   Handler:    _LicenseManagementService_UpdateLicensePool_Handler,
  },
  {
   MethodName:
 "Assign",
   Handler:    _LicenseManagementService_Assign_Handler,
  },
  {
   MethodName: "Unassign",
   Handler:    _LicenseManagementService_Unassign_Handler,
  },
  {
```

```
  MethodName: "EnumerateLicensedUsers",
  Handler:    _LicenseManagementService_EnumerateLicensedUsers_Handler,
 },
},
Streams:  []grpc.StreamDesc{},
Metadata: "google/cloud/commerce/consumer/procurement/v1/license_management_service.proto",
}
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//     https://www.apache.org/licenses/LICENSE-2.0
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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)
```

```
var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
```

```
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 SetIamPolicy: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 TestIamPermissions: []gax.CallOption{
  gax.WithTimeout(600000
* time.Millisecond),
 },
}
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
```

```
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}
```

```
// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string
```

```
 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}
```

```
//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient
 = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()
```

```
 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf,
 err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
```

```
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()),
 "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()
```

```
  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err
 := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and
 context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
```

```
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp);
 err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
```

```
m := protojson.MarshalOptions{AllowPartial: true}
body := req.GetLicenseResource()
jsonReq, err := m.Marshal(body)
if err != nil {
 return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.RequestId != nil {
 params.Add("requestId",
fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err !=
nil {
  return err
 }
 defer httpRsp.Body.Close()
```

```
 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient)
 List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(uint32(math.MaxInt32))
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
```

```
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, "", err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.Filter != nil {
  params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
 }
 if req != nil && req.MaxResults !=
nil {
  params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
 }
 if req != nil && req.OrderBy != nil {
  params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req != nil && req.PageToken != nil {
  params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return
err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
```

```
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for
 use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }
```

```
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }
```

```
  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller
 has on the specified resource. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type",
 "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
```

```
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return
nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
```

```
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
```

```
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package procurement_test

import (
 "context"

 procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
 procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
 longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicenseManagementClient() {
 ctx
 := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
```

```
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleNewLicenseManagementRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c,
 err := procurement.NewLicenseManagementRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseManagementClient_Assign() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.AssignRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#AssignRequest.
```

```
 }
 resp, err := c.Assign(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 //
 TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_EnumerateLicensedUsers() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.EnumerateLicensedUsersRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
dUsersRequest.
 }
 it := c.EnumerateLicensedUsers(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  //
 TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*procurementpb.EnumerateLicensedUsersResponse)
 }
```

```
}

func ExampleLicenseManagementClient_GetLicensePool() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.GetLicensePoolRequest{
  // TODO: Fill request struct fields.
  //
 See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#GetLicensePoolRe
quest.
 }
 resp, err := c.GetLicensePool(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_Unassign() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.UnassignRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UnassignRequest.
 }
```

```
 resp,
 err := c.Unassign(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_UpdateLicensePool() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.UpdateLicensePoolRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UpdateLicensePoo
lRequest.
 }
 resp, err := c.UpdateLicensePool(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 //
 TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_GetOperation() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
```

```
defer c.Close()

req := &longrunningpb.GetOperationRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/longrunning/autogen/longrunningpb#GetOperationRequest.
}
resp, err := c.GetOperation(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.34.2
```

```
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
```

```
  "USER":                    1,
  "GROUP":                   2,
  "EVERYONE":                3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)
```

```
// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
```

```
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}
```

```
func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
```

```
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
 0x0b, 0x67,
 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
 0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
 0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
```

```
 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
 0x64,
 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
 0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
```

```
 = []any{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func
 file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
```

```
 GoTypes:          file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
 DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
 EnumInfos:
        file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
 MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleLicensesClient_List_all() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications
 to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
```

```
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.ListLicensesRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
}
for resp, err := range c.List(ctx, req).All() {
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
}
```

1.4909 exponential-backoff 3.1.2

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1.4910 jwx 2.1.2

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1.4911 socks 2.8.4

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1.4919 protobuf-go 1.33.0

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1.4920 vim 8.2.3995-1ubuntu2.23

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uganda.txt For Vim version 8.2. Last change: 2020 Jan 08

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Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a |sponsor|. The money goes to Uganda anyway.

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==========
Kibaale Children's Centre *kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

donate

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a

volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship
the amounts are
very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o.
box 1658
Masaka, Uganda, East Africa

Sending money: *iccf-donations*

Check the ICCF web site for the latest information! See |iccf| for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They

take care of the Canadian sponsors for the children in
Kibaale. KCF forwards 100% of the money to the project in
Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated
because of Vim. Ask KCF for information about sponsorship.

Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353

If
you make a donation to Kibaale Children's Fund (KCF) you
will receive a tax receipt which can be submitted with your
tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse.
This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.
Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any
country, mostly from the post office. Use this name (which is
in my passport): "Abraham Moolenaar". Use Euro for the
currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form
that you can use for this. See "Others" below for the swift
code and IBAN number.
Any other method should work. Ask for information about
sponsorship.

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The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is
preferred.

Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A

IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address
below. Minimal amount: $70 (my bank does not accept smaller
amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:noet:ft=help:norl:

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1.4922 protobuf-go 1.31.0

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1.4923 python-lxml 5.3.1

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```
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1.4924 node-gyp 11.1.0

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1.4927 x-net 0.35.0

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1.4928 x-tools 0.30.0

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```
// Package copyright checks that files have the correct copyright notices.
package copyright

import (
 "go/ast"
 "go/parser"
 "go/token"
 "io/fs"
 "os"
 "path/filepath"
 "regexp"
 "strings"
)

// (used only by tests)
func checkCopyright(dir string) ([]string, error) {
 var files []string
 err := filepath.WalkDir(dir, func(path string, d fs.DirEntry, err error) error {
  if err != nil {
   return err
  }
  if d.IsDir() {
```

```
  // Skip directories like ".git".
  if strings.HasPrefix(d.Name(), ".") && d.Name() != "." && d.Name() != ".." {
   return filepath.SkipDir
  }
  // Skip any directory that starts with an underscore, as the go
  // command would.
  if strings.HasPrefix(d.Name(), "_") {
   return filepath.SkipDir
  }
  return nil
 }
 needsCopyright, err := checkFile(dir, path)
 if err != nil {
  return err
 }
 if
needsCopyright {
  files = append(files, path)
 }
 return nil
})
return files, err
}

var copyrightRe = regexp.MustCompile(`Copyright \d{4} The Go Authors. All rights reserved.
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license that can be found in the LICENSE file.`)

func checkFile(toolsDir, filename string) (bool, error) {
 // Only check Go files.
 if !strings.HasSuffix(filename, ".go") {
  return false, nil
 }
 // Don't check testdata files.
 normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
 if strings.Contains(normalized, "/testdata/") {
  return false, nil
 }
 // goyacc is the only file with a different copyright header.
 if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
  return false, nil
 }
 content, err := os.ReadFile(filename)
 if err != nil {
  return false, err
 }
 fset := token.NewFileSet()
 parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
```

```
 if err != nil {
  return false, err
 }
 //
 Don't require headers on generated files.
 if isGenerated(fset, parsed) {
  return false, nil
 }
 shouldAddCopyright := true
 for _, c := range parsed.Comments {
  // The copyright should appear before the package declaration.
  if c.Pos() > parsed.Package {
   break
  }
  if copyrightRe.MatchString(c.Text()) {
   shouldAddCopyright = false
   break
  }
 }
 return shouldAddCopyright, nil
}

// Copied from golang.org/x/tools/gopls/internal/golang/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
// https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.?`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
 for _, commentGroup := range file.Comments {
  for _, comment := range commentGroup.List {
   if matched := generatedRx.MatchString(comment.Text); !matched {
    continue
   }
   // Check if comment is at the beginning of the line in source.
   if pos := fset.Position(comment.Slash); pos.Column == 1 {
    return
 true
   }
  }
 }
 return false
}
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//go:generate ./gen-licenses.sh licenses.go
```

package licenses

const Text = `
-- github.com/BurntSushi/toml COPYING --

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`

```
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package licenses_test

import (
 "bytes"
 "os"
 "os/exec"
 "runtime"
 "testing"
)

func TestLicenses(t *testing.T) {
 if runtime.GOOS != "linux" && runtime.GOOS != "darwin" {
  t.Skip("generating licenses only works on Unixes")
 }
 tmp, err := os.CreateTemp("", "")
 if err != nil {
  t.Fatal(err)
 }
 tmp.Close()

 if out, err := exec.Command("./gen-licenses.sh", tmp.Name()).CombinedOutput(); err != nil {
  t.Fatalf("generating licenses failed: %q, %v", out, err)
 }

 got, err := os.ReadFile(tmp.Name())
 if err != nil {
  t.Fatal(err)
 }
 want, err := os.ReadFile("licenses.go")
 if err != nil {
  t.Fatal(err)
 }
 if !bytes.Equal(got, want) {
  t.Error("combined license text needs updating. Run: `go generate ./internal/licenses` from the gopls module.")
 }
}
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```

```
package copyright

import (
 "strings"
 "testing"
)

func TestToolsCopyright(t *testing.T) {
 files, err := checkCopyright("..")
 if err != nil {
  t.Fatal(err)
 }
 if len(files) > 0 {
  t.Errorf("The following files are missing copyright notices:\n%s", strings.Join(files, "\n"))
 }
}
```

1.4929 cryptography 44.0.1

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1.4936 commons-daemon 1.4.1

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1.4937 file 5.41-3ubuntu0.1

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1.4938 golang 1.23.6

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1.4941 filepath-securejoin 0.4.1

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1.4942 github.com/cyphar/filepath-securejoin 0.4.1

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1.4943 tzdata 2024b-0ubuntu0.22.04.1

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1.4944 k8s-io-kubernetes 1.32.2

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```
package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
```

```
 s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
 s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
 s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
 s += "is added as a default in " + n.Version + "."
 } else {
 s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
 s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
 s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
 SevNewDefault  = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not
present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

 // The following statuses are used for selecting/filtering notifications
 SevAll = "all" // show all statuses
)
```

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==========
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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
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1.4945 gopsutil 4.25.1

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 - ../admin/view-server-settings/
 - ../admin/view-server-stats/
 - view-server/
 - view-server/view-server-settings/
 - view-server/view-server-stats/
description: How to view server settings in the Grafana UI
keywords:
 - grafana
 - configuration
 - server
 - settings
labels:
 products:
   - cloud
   - enterprise
title: View server statistics and license
weight: 400

View server statistics and license

This setting contains information about tools that Grafana Server Admins can use to learn more about their Grafana servers.

View Grafana server settings

> Refer to [Role-based access control]({{< relref "../roles-and-permissions/access-control" >}}) in Grafana Enterprise to understand how you can control access with RBAC permissions.

If you are a Grafana server administrator, use the Settings tab to view the settings that are applied to your Grafana server via the [Configuration]({{< relref "../../setup-grafana/configure-grafana#configuration-file-location" >}}) file and any environmental variables.

> **Note:** Only Grafana server administrators can access the **Server Admin** menu. For more information about about administrative permissions, refer to [Roles and permissions]({{< relref "../roles-and-permissions#grafana-server-administrators" >}}).

View server settings

1. Log in to your Grafana server with an account that has the Grafana Admin flag set.
1. Click **Administration** in the left-side menu, **General**, and then **Settings**.

Available settings

For a full list of server settings, refer to [Configuration]({{< relref "../../setup-grafana/configure-grafana#server"

>}}).

View Grafana server stats

> Refer to [Role-based access control]({{< relref "../roles-and-permissions/access-control" >}}) in Grafana Enterprise to understand how you can control access with RBAC permissions.

If you are a Grafana server admin, then you can view useful statistics about your Grafana server in the Stats & Licensing tab.

>
 Note: Only Grafana server administrators can access the **Server Admin** menu. For more information about about administrative permissions, refer to [Roles and permissions]({{< relref "../roles-and-permissions#grafana-server-administrators" >}}).

View server stats

1. Log in to your Grafana server with an account that has the Grafana Admin flag set.
1. Click **Administration** in the left-side menu, **General**, and then **Stats and license**.

Available stats

The following statistics are displayed in the Stats tab:

- Total users
 Note: Total users = Total admins + Total editors + Total viewers
- Total admins
- Total editors
- Total viewers
- Active users (seen last 30 days)
 Note: Active users = Active admins + Active editors + Active viewers
- Active admins (seen last 30 days)
- Active editors (seen last 30 days)
- Active viewers (seen last 30 days)
- Active sessions
- Total dashboards
- Total orgs
- Total playlists
- Total snapshots
- Total dashboard tags
-
 Total starred dashboards
- Total alerts

Counting users

If a user belongs to several organizations, then that user is counted once as a user in the highest organization role they are assigned, regardless of how many organizations the user belongs to.

For example, if Sofia is a Viewer in two organizations, an Editor in two organizations, and Admin in three organizations, then she would be reflected in the stats as:

- Total users 1
- Total admins 1
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Copyright 2012-2013 Elasticsearch BV
---
aliases:
 - ../../../enterprise/activate-aws-marketplace-license/manage-license-in-aws-marketplace/
 - ../../../enterprise/license/activate-aws-marketplace-license/manage-license-in-aws-marketplace/
description: Manage your Grafana Enterprise license in AWS Marketplace
keywords:
 - grafana
 - enterprise
 - aws
 - marketplace
 - manage
 - add
 - remove
 - users
labels:
 products:
   - enterprise
   - oss
title: Manage your Grafana Enterprise license in AWS Marketplace
weight: 400

Manage your Grafana Enterprise license in AWS Marketplace

You can use AWS Marketplace to make the following modifications to your Grafana Enterprise license:

- Add active users
- Remove active users
- Cancel your subscription to Grafana Enterprise.

To modify your Grafana Enterprise subscription in AWS Marketplace:

1. Open the AWS Console and navigate to [Subscription Management](https://console.aws.amazon.com/marketplace/home/subscriptions#/subscriptions).

1. Update your license.

1.

Sign in to Grafana as a Server Administrator.

1. Click **Administration** in the side navigation menu, **General**, and then **Stats and license**.

1. In the **Token** section under **Enterprise License**, click **Renew token**.

This action retrieves updated license information from AWS.

> To learn more about licensing and active users, refer to [Activate a Grafana Enterprise license purchased through AWS Marketplace]({{< relref "../" >}}).
---
aliases:
 - ../../../enterprise/activate-aws-marketplace-license/activate-license-on-eks/
 - ../../../enterprise/license/activate-aws-marketplace-license/activate-license-on-eks/
description: Activate a Grafana Enterprise license from AWS Marketplace on EKS
keywords:
 - grafana
 - enterprise
 - aws
 - marketplace
 - eks
 - activate
labels:
 products:
   - enterprise
   - oss
title: Activate a Grafana Enterprise license from AWS Marketplace on EKS
weight: 200

Activate a Grafana Enterprise license from AWS Marketplace on EKS

If you have purchased a Grafana Enterprise subscription through AWS Marketplace, you must activate it to use Grafana Enterprise data source plugins and features in Grafana.

Before you begin:

- Purchase a subscription to [Grafana Enterprise from AWS Marketplace](https://aws.amazon.com/marketplace/pp/prodview-dlncd4kzt5kx6).
- Be sure that the IAM user that was used to purchase Grafana Enterprise has permission to manage subscriptions, create
 new IAM users and roles, and create access policies.

To activate your license, complete the following tasks:

Task 1: Deploy Grafana Enterprise on Amazon EKS

1. Deploy Grafana Enterprise on Amazon EKS.

For more information about deploying an application on Amazon EKS, refer to [Getting started with Amazon EKS AWS Management Console and AWS CLI](https://docs.aws.amazon.com/eks/latest/userguide/getting-started-console.html).

For more information about installing Grafana on Kubernetes using the Helm Chart, refer to the [Grafana Helm Chart](https://github.com/grafana/helm-charts/tree/main/charts/grafana#readme).

1. Use `kubectl set image deployment/my-release grafana=grafana/grafana-enterprise:<version>` to update the container image.

For example, enter `grafana/grafana-enterprise:11.3.0`.

> Only Grafana Enterprise versions 8.3.0 and later support licenses granted through AWS Marketplace.

Task 2: Configure Grafana for high availability

Grafana requires that you configure
a database to hold dashboards, users, and other persistent data.

Before you begin

- Ensure that you have a supported Grafana database available.
- For a list of supported databases, refer to [Supported databases]({{< relref "../../../../setup-grafana/installation/#supported-databases" >}}).
- For information about creating a database, refer to [Creating an Amazon RDS DB instance](https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/USER_CreateDBInstance.html).
- Review the information required to connect to the RDS DB instance. For more information, refer to [Connecting to an Amazon RDS DB instance](https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP_CommonTasks.Connect.html).

To configure Grafana for high availability, choose **one** of the following options:

- **Option 1:** Use `kubectl edit configmap grafana` to edit `grafana.ini` add the following section to the configuration:

```
[database]
type = [database type]
host = [database address and
port]
name = [database name]
user = [database username]
password = [database password]
```

- **Option 2:** use `kubectl edit deployment my-release` to edit the pod `env` variables and add the following database variables:

```
- name: GF_DATABASE_TYPE
  value: [database type]
- name: GF_DATABASE_HOST
  value: [database address and port]
- name: GF_DATABASE_NAME
  value: [database name]
- name: GF_DATABASE_USER
  value: [database username]
- name: GF_DATABASE_PASSWORD
  value: [database password]
```

For more information on Grafana High Availability setup, refer to [Set up Grafana for high availability]({{< relref "../../../../setup-grafana/set-up-for-high-availability/" >}}).

Task 3: Configure Grafana Enterprise to validate its license with AWS

In this task, you configure Grafana Enterprise to validate the license with AWS instead of Grafana Labs.

1. In AWS IAM, assign the following permissions to the Node IAM role (if you are using a Node Group), or the Pod Execution role (if you are using a Fargate profile):

   - `"license-manager:CheckoutLicense"`
   - `"license-manager:ListReceivedLicenses"`
   - `"license-manager:GetLicenseUsage"`
   - `"license-manager:CheckInLicense"`

   For more information about creating an access policy, refer to [Creating IAM policies (console)](https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies_create-console.html).

   For more information about AWS license permissions, refer to [Actions, resources, and condition keys for AWS License Manager](https://docs.aws.amazon.com/service-authorization/latest/reference/list_awslicensemanager.html).

1. Choose **one** of the following options to update the [license_validation_type]({{< relref "../../../../setup-grafana/configure-grafana/enterprise-configuration/#license_validation_type" >}}) configuration to `aws`:

   - **Option 1:** Use `kubectl edit configmap grafana` to edit `grafana.ini` add the following section to the configuration:

     ```
     [enterprise]
     license_validation_type=aws
     ```

- **Option 2:** Use `kubectl edit deployment my-release` to edit the pod `env` variables and add the following variable:

  ```
  name: GF_ENTERPRISE_LICENSE_VALIDATION_TYPE
  value: aws
  ```

Task 4: Start or restart Grafana

To activate Grafana Enterprise features, you must start (or restart) Grafana.

To restart Grafana on a Kubernetes cluster,

1. Run the command `kubectl rollout restart deployment my-release`.

1. After you update the service, navigate to your Grafana instance, sign in with Grafana Admin credentials, and navigate to **Administration > General > Stats and license** to validate that your license is active.

For more information about restarting Grafana, refer to [Restart Grafana]({{< relref "../../../../setup-grafana/start-restart-grafana/" >}}).

> If you experience issues when you update the EKS cluster, refer to [Amazon EKS troubleshooting](https://docs.aws.amazon.com/eks/latest/userguide/troubleshooting.html).

```
---
aliases:
 - ../../../enterprise/activate-aws-marketplace-license/activate-license-on-instance-outside-aws/
 - ../../../enterprise/license/activate-aws-marketplace-license/activate-license-on-instance-outside-aws/
description: Activate a Grafana Enterprise license from AWS on an instance deployed
 outside of AWS
keywords:
 - grafana
 - enterprise
 - aws
 - marketplace
 - activate
labels:
 products:
   - enterprise
   - oss
title: Activate a Grafana Enterprise license from AWS on an instance deployed outside
 of AWS
weight: 300
---
```

Activate a Grafana Enterprise license from AWS on an instance deployed outside of AWS

While AWS Marketplace lists ECS and EKS as the supported environments for Grafana Enterprise, you can apply a

Grafana Enterprise license from AWS Marketplace to any Grafana instance with network access to the AWS licensing service.

Before you begin

- Purchase a subscription to [Grafana Enterprise from AWS Marketplace](https://aws.amazon.com/marketplace/pp/prodview-dlncd4kzt5kx6).
- Be sure that the IAM user that was used to purchase Grafana Enterprise has permission to manage subscriptions, create new IAM users, and create access policies.
- Be sure there is network access between AWS and the environment where you intend to run Grafana. Network access is required because your Grafana instance communicates with the [AWS License Manager endpoints and quotas](https://docs.aws.amazon.com/general/latest/gr/licensemanager.html) to retrieve license and subscription information. Grafana instances with access to the public internet will have access to AWS license manager.

To activate a Grafana Enterprise license from AWS on a Grafana Enterprise instance deployed outside of AWS, complete the following tasks.

Task 1: Install Grafana Enterprise

To install Grafana, refer to the documentation specific to your implementation.

- [Install Grafana]({{< relref "../../../../setup-grafana/installation/" >}}).
- [Run Grafana Docker image]({{< relref "../../../../setup-grafana/installation/docker/" >}}).
- [Deploy Grafana on Kubernetes]({{< relref "../../../../setup-grafana/installation/kubernetes/#deploy-grafana-enterprise-on-kubernetes" >}}).

Task 2: Create an AWS IAM user with access to your Grafana Enterprise license

To retrieve your license, Grafana Enterprise requires access to your AWS account and license information. To grant access, create an IAM user in AWS with access to the license, and pass its credentials as environment variables on the host or container where Grafana is running. These environment variables allow Grafana to retrieve license details from AWS.

1. In the AWS License Manager service, create an IAM policy with the following permissions:

  - `"license-manager:CheckoutLicense"`
  - `"license-manager:ListReceivedLicenses"`
  - `"license-manager:GetLicenseUsage"`
  - `"license-manager:CheckInLicense"`

  For more information about creating a policy in AWS, refer to [Creating IAM policies](https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies_create.html).

  For more information about AWS Identity and Access Management, refer to [IAM users](https://docs.aws.amazon.com/IAM/latest/UserGuide/id_users.html).

1. To limit the policy to obtain usage data just for Grafana Enterprise, in the **Resources** section of the policy, specify your license ARN.

You can find your license ID in the **Granted Licenses** section of [AWS License Manager](https://console.aws.amazon.com/license-manager/home).

The policy JSON should look similar to the following example:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
        "Sid": "VisualEditor0",
        "Effect": "Allow",
        "Action": "license-manager:GetLicenseUsage",
        "Resource": "arn:aws:license-manager::[YOUR_ACCOUNT]:license:[YOUR_LICENSE_ID]"
    },
    {
        "Sid": "VisualEditor1",
        "Effect": "Allow",
        "Action":
[
          "license-manager:CheckoutLicense",
          "license-manager:ListReceivedLicenses",
          "license-manager:CheckInLicense"
        ],
        "Resource": "*"
    }
  ]
}
```

1. Create an IAM user and choose access key credentials as its authentication method.

For more information about creating an IAM user, refer to [IAM users](https://docs.aws.amazon.com/IAM/latest/UserGuide/id_users.html).

For more information about access key credentials, refer to [Managing access keys for IAM users](https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_access-keys.html).

1. Attach the policy you created to the IAM user.

1. Add the following values as environment variables to the host or container running Grafana:

- AWS region
- IAM user's access key ID
- IAM user's secret access key

The environment variables should look similar to the following example:

```
AWS_ACCESS_KEY_ID=ABCD5E75FGHIJKTM7
 AWS_SECRET_ACCESS_KEY=k8fhYAQVy+5NhCejhe6HeSjSphjRuy+12C06
AWS_REGION=us-east-1
```

Task 3: Configure Grafana Enterprise to validate its license with AWS

In this task you configure Grafana Enterprise to validate the license with AWS instead of Grafana Labs.

Choose one of the following options to update the [license_validation_type]({{< relref "../../../../setup-grafana/configure-grafana/enterprise-configuration/#license_validation_type" >}}) configuration to `aws`:

- **Option 1:** In the `[enterprise]` section of the grafana.ini configuration file, add `license_validation_type=aws`.

 For example:

```
[enterprise]
license_validation_type=aws
```

- **Option 2:** Add the following environment variable to the container or host:

```
GF_ENTERPRISE_LICENSE_VALIDATION_TYPE=aws
```

Task 4: Start or restart Grafana

To activate Grafana Enterprise features, start (or restart) Grafana.

For information about restarting Grafana, refer to [Restart
 Grafana]({{< relref "../../../../setup-grafana/start-restart-grafana/" >}}).
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Corresponding Source
fixed on a durable physical medium
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b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years and valid for as
long as you offer spare parts or customer support for that product
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copy of the Corresponding Source for all the software in the
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medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially,
and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same way through the same place at no
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Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
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clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
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description: Activate a Grafana Enterprise license from AWS Marketplace on ECS
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 - enterprise
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labels:
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title: Activate a Grafana Enterprise license from AWS Marketplace on ECS
weight: 250

Activate a Grafana Enterprise license from AWS Marketplace on ECS

If you have purchased a Grafana Enterprise subscription through AWS Marketplace, you must activate it in order to use Grafana Enterprise data source plugins and features in Grafana.

Before you begin

- Purchase a subscription to [Grafana Enterprise from AWS
Marketplace](https://aws.amazon.com/marketplace/pp/prodview-dlncd4kzt5kx6).
- Be sure that the IAM user that was used to purchase Grafana Enterprise has permission to manage subscriptions,
 create new IAM users and roles, and create access policies.

To activate your license, complete the following tasks.

Task 1: Deploy Grafana Enterprise on Amazon ECS

1. Deploy Grafana Enterprise on Amazon ECS.

  For more information about deploying an application on Amazon ECS, refer to [Creating an Amazon ECS service](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/create-service.html).

1. As you create the Amazon ECS service, use the intended Grafana Enterprise container image version.

  For example, enter `grafana/grafana-enterprise:11.3.0`.

  > Only Grafana Enterprise versions 8.3.0 and later support licenses granted through AWS Marketplace.

Task 2: Configure Grafana for high availability

Grafana requires that you configure a database to hold dashboards, users, and other persistent data.

Before you begin

- Ensure that you have a supported Grafana database available.
 - For a list of supported databases, refer to [Supported databases]({{< relref "../../../../setup-grafana/installation/#supported-databases" >}}).
 - For information about creating a database, refer to [Creating an Amazon RDS DB instance](https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/USER_CreateDBInstance.html).
- Review the information required to connect to the RDS DB instance. For more information, refer to [Connecting to an Amazon RDS DB instance](https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP_CommonTasks.Connect.html).

To configure Grafana for high availability:

1. In AWS ECS, use environment variables to update the `database` parameters.

  For a list of database parameters, refer to [Configuration]({{< relref "../../../../setup-grafana/configure-grafana/#database" >}}).

1. Create a revision of the task definition for the ECS Task that runs Grafana Enterprise.

  For more information about creating a task, refer to [Updating a task definition using the classic console](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/update-task-definition.html).

1.
 Within the new revision, edit the Grafana Enterprise container for this task, and add the following environment variables to the container:

  ```
  GF_DATABASE_TYPE=[database type]
  GF_DATABASE_HOST=[database address and port]
  ```

```
GF_DATABASE_NAME=[database name]
GF_DATABASE_USER=[database username]
GF_DATABASE_PASSWORD=[database password]
```

> For more information about how to update your ECS service with an environment variable, refer to [Updating a service using the new console](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/update-service-console-v2.html).

Task 3: Configure Grafana Enterprise to validate its license with AWS

In this task you configure Grafana Enterprise to validate the license with AWS instead of Grafana Labs.

1. In AWS IAM, create an access policy with the following permissions:

   - `"license-manager:CheckoutLicense"`
   - `"license-manager:ListReceivedLicenses"`
   - `"license-manager:GetLicenseUsage"`
   - `"license-manager:CheckInLicense"`

   For more information about creating an access policy, refer to [Creating IAM policies (console)](https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies_create-console.html).

   For more information about AWS license permissions, refer to [Actions, resources, and condition keys for AWS License Manager](https://docs.aws.amazon.com/service-authorization/latest/reference/list_awslicensemanager.html).

1. Create an Elastic Container Service task role and attach the policy you created in the previous step.

   For more information about creating a task role, refer to [IAM Roles for Tasks](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/task-iam-roles.html).

1. Create a revision of the task definition for the ECS Task that runs Grafana Enterprise.

   For more information about creating a revision of the task definition, refer to [Updating a task definition using the classic console](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/update-task-definition.html).

1. Within the new revision, perform the following steps:

   a. Update the Task Role of your ECS Task to the role that you created, with permission to access license information.

   b. Edit the Grafana Enterprise container for this task, and add the following environment variable to the container:

   ```
   GF_ENTERPRISE_LICENSE_VALIDATION_TYPE=aws
   ```

For more information about how to update your ECS service with an environment variable, refer to [Updating a service using the new console](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/update-service-console-v2.html).

Task 4: Start or restart Grafana

1. To restart Grafana and activate your license, update the service running Grafana to use the latest revision of the task definition that you created.
1. After you update the service, navigate to your Grafana instance, sign in with Grafana Admin credentials, and navigate to **Administration > General > Stats
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* /opt/cola/permits/2353332529_1739481484.9104598/0/argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/impl/action/AppendConstArgumentAction.java
* /opt/cola/permits/2353332529_1739481484.9104598/0/argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/inf/Namespace.java
* /opt/cola/permits/2353332529_1739481484.9104598/0/argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/inf/ArgumentGroup.java
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* /opt/cola/permits/2353332529_1739481484.9104598/0/argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/helper/ASCIITextWidthCounter.java
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* /opt/cola/permits/2353332529_1739481484.9104598/0/argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/impl/type/StringArgumentType.java
* /opt/cola/permits/2353332529_1739481484.9104598/0/argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/internal/SubparserImpl.java
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*/

Found in path(s):
* /opt/cola/permits/2353332529_1739481484.9104598/0/argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/helper/HelpScreenException.java

1.4949 alpine-base 3.21.3-r0

1.4949.1 Available under license :

```
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=6
pkgdesc="A library for high-performance 2D graphics"
url="https://www.levien.com/libart/"
arch="all"
options="!check"  # No test suite.
license="LGPL-2.0-or-later"
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
 "

builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
 update_config_sub
 default_prepare
}

build() {
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr
 make
```

```
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7
6654309e001aee9bace727b5b4c8589405256a3c020  libart_lgpl-2.3.21.tar.bz2"
# Automatically generated by apkbuild-cpan, template 4
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Celeste <cielesti@protonmail.com>
maintainer="Celeste <cielesti@protonmail.com>"
pkgname=perl-bsd-resource
pkgver=1.2911
pkgrel=10
#_pkgreal is used by apkbuild-cpan to find modules at MetaCpan
_pkgreal=BSD-Resource
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="https://metacpan.org/release/BSD-Resource/"
arch="all"
license="Artistic-2.0 OR LGPL-2.0"
depends="perl"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/J/JH/JHI/BSD-Resource-$pkgver.tar.gz"
builddir="$srcdir/$_pkgreal-$pkgver"

build() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 PERL_MM_USE_DEFAULT=1 perl -I. Makefile.PL \
  INSTALLDIRS=vendor \
  NO_PACKLIST=1 \
  NO_PERLLOCAL=1
 make
}

check() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 make test
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="
d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16dfa5417f663b
8065ba65f4fea16dc9262728b3b6b85
```

```
  BSD-Resource-1.2911.tar.gz
"
# Contributor: Maxim Karasev <begs@disroot.org>
# Maintainer: mio <miyopan@e.email>
pkgname=bsd-games
pkgver=3.3
pkgrel=2
pkgdesc="traditional text mode games from BSD"
url="https://bsd-games.sourceforge.io/"
arch="all"
license="BSD-3-Clause"
install="$pkgname.post-install"
makedepends="ncurses-dev coreutils" # configure causes busybox expr error
subpackages="$pkgname-doc"
source="https://sourceforge.net/projects/bsd-games/files/bsd-games-$pkgver.tar.gz
 0001-bsd-games-scores-dir.patch
 "
options="!check" # no tests

build() {
 # some GNU autoconf options are ignored, but it works
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr \
  --sysconfdir=/etc \
  --mandir=/usr/share/man \
  --scoredir=/usr/share/$pkgname
 make
}

package() {
 make DESTDIR="$pkgdir" install
 install -Dm644 LICENSE "$pkgdir"/usr/share/licenses/bsd-games/LICENSE
}

sha512sums="
aaf36d09d4fe68514a5c279063d7e77a9a9a84c447037cba974b29faa07eb80c2aab2379d0699c196b5c27ffe1b2bb2c6
8d3390143e0e62d5e3d210ccfb61294
  bsd-games-3.3.tar.gz
e1def0d4835a877242c4173fae862e278a7858738e0bacacbb045a42bcabec2aa7c72d000bbd2421ce35fe66cdc1f52c0
577b7e278029ca5ed50f7aab22319f6  0001-bsd-games-scores-dir.patch
"
```

Vintage Dreams Waves v 2.0. for Creative Labs' AWE Soundcards
(EMU Soundfont 2 Format)

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# Contributor: Carlo Landmeter <clandmeter@alpinelinux.org>
# Maintainer: Kevin Daudt <kdaudt@alpinelinux.org>
pkgname=spdx-licenses
pkgver=3.24.0
pkgrel=0
pkgdesc="Various data formats for the SPDX License List"
url="https://spdx.org/"
arch="noarch"
options="!check" # no test suite
license="CC-BY-3.0"

```
source="license-list-data-$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v$pkgver.tar.gz"
builddir="$srcdir/license-list-data-$pkgver"
subpackages="$pkgname-list"

_types="html json rdfa rdfnt rdfturtle rdfxml template text"

for type in $_types; do
 subpackages="$subpackages $pkgname-$type:_subpkg"
done

package() {
 mkdir -p "$pkgdir"
}

_subpkg() {
 local type=${subpkgname/$pkgname-/}
 pkgdesc="$pkgdesc ($type)"
 install_if="$pkgname=$pkgver-r$pkgrel"
 mkdir -p "$subpkgdir"/usr/share/spdx
 cp -r "$builddir"/$type "$subpkgdir"/usr/share/spdx/
}

list() {
 pkgdesc="$pkgdesc (licence list)"
 mkdir -p "$subpkgdir"/usr/share/spdx
 local i; for i in "$builddir"/text/*.txt;
 do
  local license=${i##*/}
  echo ${license%.*} >> "$subpkgdir"/usr/share/spdx/license.lst
 done
}

sha512sums="
6eb81424e1b3173dbd8e17859b2e15dfe1c2af8f4da59b7dad0729c038a4cbdba95c34c2c546285fcdbbd41562e39575e
6a6ebb9463b70121e0a12b99d1307e7  license-list-data-3.24.0.tar.gz
"
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=8
pkgdesc="A library for high-performance 2D graphics"
url="https://www.levien.com/libart/"
arch="all"
options="!check"  # No test suite.
license="LGPL-2.0-or-later"
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
 "
```

```
builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
 update_config_sub
 default_prepare
}

build() {
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr
 make
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7
6654309e001aee9bace727b5b4c8589405256a3c020  libart_lgpl-2.3.21.tar.bz2"
```

mini_sendmail - accept email on behalf of real sendmail

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SUCH DAMAGE.

```
# Contributor: Patrycja Rosa <alpine@ptrcnull.me>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=bsd-compat-headers
pkgver=0.7.2
pkgrel=6
pkgdesc="BSD compatibility headers (cdefs, queue, tree)"
url="https://gitlab.alpinelinux.org/alpine/aports"
arch="noarch"
license="BSD-2-Clause AND BSD-3-Clause"
source="
 cdefs.h
 queue.h
 tree.h
"
builddir="$srcdir"
options="!check" # just headers

package() {
 mkdir -p "$pkgdir"
 install -Dm644 -t "$pkgdir"/usr/include/sys \
  cdefs.h queue.h tree.h
}
sha512sums="
37c8fc73c7aea7b490f7850927e2bb91d12137c9e59e22c084146d515696dbc7973b5de92f4c987ba080dd2502ba8312
7006442c3f019b6447a620c0cae73178  cdefs.h
2f0d5e6e4dc3350285cf17009265dddcbe12431c111868eea39bc8cb038ab7c1f2acacbb21735c4e9d4a1fd106a8fc0f86
11ea33987d4faba37dde5ce6da0750  queue.h
d9ac210d81feb8ad2655bc80fb065d3fe20ae4417b32b4a1711e6738a4870140005c13373b5d1846ef3ce5ae6da45f2da
cef2092881eded0a2e94f6a07752ef3  tree.h
"
```

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The X-Spline code was written Carole Blanc (blanc@labri.u-bordeaux.fr) and Christophe Schlick (schlick@labri.u-bordeaux.fr) starting from an initial implementation done by C. Feuille, S. Grosbois, L. Maziere and L. Minihot as a student practice (Universite Bordeaux, France). For additional information about X-splines, see:
"X-Splines: A Spline Model Designed for the End User" by C. Blanc and C. Schlick, Proceedings of SIGGRAPH'95
http://dept-info.labri.u-bordeaux.fr/~schlick/DOC/sig1.html

```
# Contributor: Fabian Affolter <fabian@affolter-engineering.ch>
# Maintainer: Fabian Affolter <fabian@affolter-engineering.ch>
pkgname=py3-flake8-copyright
_pkgname=flake8-copyright
pkgver=0.2.4
pkgrel=3
pkgdesc="Extension for flake8 which checks for copyrights"
options="!check" # No testsuite
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="py3-flake8 py3-setuptools"
makedepends="py3-gpep517 py3-wheel"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir"/$_pkgname-$pkgver

replaces="py-flake8-copyright"                # Backwards compatibility
provides="py-flake8-copyright=$pkgver-r$pkgrel" # Backwards compatibility

build() {
 gpep517 build-wheel \
  --wheel-dir .dist \
  --output-fd 3 3>&1 >&2
}

package() {
 gpep517 install-wheel --destdir "$pkgdir" \
  .dist/*.whl
}

sha512sums="
a6ab47e1bb715618f075c51f398e18180404871b3b0faf1c2d30701d5203db6bc23771bf22ffb5bafcd8ee856b9b64237
b316bd503ae7dceed6ca284ccd5a74d
  flake8-copyright-0.2.4.tar.gz
"
```

```
# Contributor: Francesco Colista <fcolista@alpinelinux.org>
# Maintainer: Bart Ribbers <bribbers@disroot.org>
pkgname=qt5-qtsensors
pkgver=5.15.10_git20230424
pkgrel=1
_module="${pkgname#qt5-}"
_pkgver=45c04582b15a9bb4be01ae99aa7fda1bbba7d0df
_fullname=$_module-$_pkgver
pkgdesc="+The Qt Sensors API provides access to sensor hardware via QML and C++"
url="https://www.qt.io/developers/"
arch="all !armhf" # armhf blocked by qt5-qtdeclarative
license="LGPL-2.1-only AND LGPL-3.0-only AND GPL-3.0-only AND Qt-GPL-exception-1.0"
# Maintainer: fossdd <fossdd@pwned.life>
pkgname=cargo-license
pkgver=0.6.1
pkgrel=1
pkgdesc="Cargo subcommand to see license of dependencies"
url="https://github.com/onur/cargo-license"
arch="all"
license="MIT"
makedepends="cargo cargo-auditable"
source="$pkgname-$pkgver.tar.gz::https://crates.io/api/v1/crates/cargo-license/$pkgver/download"

prepare() {
 default_prepare

 cargo fetch --target="$CTARGET" --locked
}

build() {
 cargo auditable build --release --frozen
}

check() {
 cargo test --frozen
}

package() {
 install -Dm755 target/release/cargo-license -t "$pkgdir"/usr/bin
}

sha512sums="
36215145e79965be090ae2f5ce6f5eb208465eb67a94c26bed1fe70a131c46c6dc35695e30852759b7366883fbc3caf00
272d796ac634f0a5e1d49232b6b29d5  cargo-license-0.6.1.tar.gz
"
```

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# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=py3-license-expression
_pkgname=license_expression
pkgver=30.4.0
pkgrel=0
pkgdesc="Library to parse, compare, simplify and normalize license expressions"
url="https://github.com/nexB/license-expression"
arch="noarch"
license="Apache-2.0"
depends="python3 py3-boolean.py"
makedepends="py3-setuptools py3-setuptools_scm py3-gpep517 py3-wheel"
checkdepends="py3-pytest py3-pytest-xdist"
subpackages="$pkgname-pyc"
```

```
source="https://files.pythonhosted.org/packages/source/l/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir/$_pkgname-$pkgver"

build() {
 gpep517 build-wheel \
  --wheel-dir .dist \
  --output-fd 3 3>&1 >&2
}

check() {
 python3 -m venv --clear --without-pip --system-site-packages .testenv
 .testenv/bin/python3 -m installer .dist/*.whl
 .testenv/bin/python3 -m pytest
}

package() {
 python3 -m installer -d "$pkgdir" \
  .dist/*.whl
}

sha512sums="
cc7cd6b5bd8ea4c99b66f074871ffd7cc78b3e8b1b0d3afd9b95efdb7147c8293db2fac977d684fc34d3d60bd79066a06
dc2bff0a38b130d9d83c63538502db1
  license_expression-30.4.0.tar.gz
"
```

1.4950 musl-utils 1.2.5-r9

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1.4951 apk-tools 2.14.6-r3

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1.4952 psutil 7.0.0

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1.4953 azure-sdk-for-go-sdk-azidentity v1.7.0

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```
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// +build go1.18

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package armhybridcompute_test

import (
 "context"
 "log"

 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/azidentity"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
```

```
)

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/f4c6c8697c59f966db0d1e36b62df3af3bca9065/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-03-31-preview/examples/license/License_CreateOrUpdate.json
func ExampleLicensesClient_BeginCreateOrUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil
 {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginCreateOrUpdate(ctx, "myResourceGroup", "{licenseName}",
armhybridcompute.License{
  Location: to.Ptr("eastus2euap"),
  Properties: &armhybridcompute.LicenseProperties{
   LicenseDetails: &armhybridcompute.LicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx,
 nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
```

```
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](2),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID:
 to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/f4c6c8697c59f966db0d1e36b62df3af3bca9065/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-03-31-preview/examples/license/License_Update.json
func ExampleLicensesClient_BeginUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginUpdate(ctx,
 "myResourceGroup", "{licenseName}", armhybridcompute.LicenseUpdate{
  Properties: &armhybridcompute.LicenseUpdateProperties{
   LicenseDetails: &armhybridcompute.LicenseUpdatePropertiesLicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
```

```
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please
 pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/lice
nses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //
  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/f4c6c8697c59f966db0d1e36b62df3af3bca9065/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-03-31-preview/examples/license/License_Get.json
func ExampleLicensesClient_Get() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 res, err := clientFactory.NewLicensesClient().Get(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
```

```
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would
 look as follows. Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //
   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/f4c6c8697c59f966db0d1e36b62df3af3bca9065/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-03-31-preview/examples/license/License_Delete.json
func ExampleLicensesClient_BeginDelete() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginDelete(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 _, err = poller.PollUntilDone(ctx, nil)
 if err != nil {
```

```
  log.Fatalf("failed to pull the result: %v", err)
 }
}

// Generated from example
 definition: https://github.com/Azure/azure-rest-api-
specs/blob/f4c6c8697c59f966db0d1e36b62df3af3bca9065/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-03-31-
preview/examples/license/License_ListByResourceGroup.json
func ExampleLicensesClient_NewListByResourceGroupPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListByResourceGroupPager("myResourceGroup", nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
   // You could use page here. We use blank identifier for just demo purposes.
   _ = v
  }
  // If the HTTP response
 code is 200 as defined in example definition, your page structure would look as follows. Please pay attention that all
the values in the output are fake values for just demo purposes.
  // page.LicensesListResult = armhybridcompute.LicensesListResult{
  //  Value: []*armhybridcompute.License{
  //   {
  //    Name: to.Ptr("{licenseName}"),
  //    Type: to.Ptr("Microsoft.HybridCompute/licenses"),
  //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
  //    Location: to.Ptr("eastus2euap"),
  //    Properties: &armhybridcompute.LicenseProperties{
  //     LicenseDetails: &armhybridcompute.LicenseDetails{
  //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
  //      AssignedLicenses: to.Ptr[int32](8),
  //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
  //      ImmutableID: to.Ptr("<generated Guid>"),
  //      Processors: to.Ptr[int32](6),
```

```
 //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //
     Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //     },
 //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //     TenantID: to.Ptr("{tenandId}"),
 //    },
 //  }},
 // }
 }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/f4c6c8697c59f966db0d1e36b62df3af3bca9065/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-03-31-
preview/examples/license/License_ListBySubscription.json
func ExampleLicensesClient_NewListBySubscriptionPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListBySubscriptionPager(nil)
 for pager.More()
 {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
   // You could use page here. We use blank identifier for just demo purposes.
   _ = v
  }
  // If the HTTP response code is 200 as defined in example definition, your page structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
  // page.LicensesListResult = armhybridcompute.LicensesListResult{
  //  Value: []*armhybridcompute.License{
  //   {
  //    Name: to.Ptr("{licenseName}"),
  //    Type: to.Ptr("Microsoft.HybridCompute/licenses"),
  //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
  //    Location: to.Ptr("eastus2euap"),
```

```
 //    Properties: &armhybridcompute.LicenseProperties{
 //     LicenseDetails: &armhybridcompute.LicenseDetails{
 //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //
     AssignedLicenses: to.Ptr[int32](8),
 //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //      ImmutableID: to.Ptr("<generated Guid>"),
 //      Processors: to.Ptr[int32](6),
 //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //     },
 //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //     TenantID: to.Ptr("{tenandId}"),
 //    },
 //  }},
 // }
 }
}
aztemplate
```

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```
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// +build go1.18

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// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package fake

import (
 "context"
 "errors"
 "fmt"
 azfake "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake/server"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
 "net/http"
 "net/url"
 "regexp"
)
```

```
// LicensesServer is a fake server for instances of the armhybridcompute.LicensesClient type.
type LicensesServer struct {
 // BeginCreateOrUpdate is the fake for method LicensesClient.BeginCreateOrUpdate
 // HTTP status codes to indicate success:
 http.StatusOK
 BeginCreateOrUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
armhybridcompute.License, options *armhybridcompute.LicensesClientBeginCreateOrUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse], errResp
azfake.ErrorResponder)

 // BeginDelete is the fake for method LicensesClient.BeginDelete
 // HTTP status codes to indicate success: http.StatusOK, http.StatusNoContent
 BeginDelete func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientBeginDeleteOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse], errResp azfake.ErrorResponder)

 // Get is the fake for method LicensesClient.Get
 // HTTP status codes to indicate success: http.StatusOK
 Get func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientGetOptions) (resp
azfake.Responder[armhybridcompute.LicensesClientGetResponse],
 errResp azfake.ErrorResponder)

 // NewListByResourceGroupPager is the fake for method LicensesClient.NewListByResourceGroupPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListByResourceGroupPager func(resourceGroupName string, options
*armhybridcompute.LicensesClientListByResourceGroupOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse])

 // NewListBySubscriptionPager is the fake for method LicensesClient.NewListBySubscriptionPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListBySubscriptionPager func(options *armhybridcompute.LicensesClientListBySubscriptionOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse])

 // BeginUpdate is the fake for method LicensesClient.BeginUpdate
 // HTTP status codes to indicate success: http.StatusOK
 BeginUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
 armhybridcompute.LicenseUpdate, options *armhybridcompute.LicensesClientBeginUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse], errResp azfake.ErrorResponder)
}

// NewLicensesServerTransport creates a new instance of LicensesServerTransport with the provided
implementation.
// The returned LicensesServerTransport instance is connected to an instance of armhybridcompute.LicensesClient
via the
// azcore.ClientOptions.Transporter field in the client's constructor parameters.
func NewLicensesServerTransport(srv *LicensesServer) *LicensesServerTransport {
 return &LicensesServerTransport{
```

```
 srv:                    srv,
 beginCreateOrUpdate:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]](),
 beginDelete:                newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]](),
 newListByResourceGroupPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]](),
 newListBySubscriptionPager:
 newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]](),
 beginUpdate:                newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]](),
 }
}

// LicensesServerTransport connects instances of armhybridcompute.LicensesClient to instances of LicensesServer.
// Don't use this type directly, use NewLicensesServerTransport instead.
type LicensesServerTransport struct {
 srv                    *LicensesServer
 beginCreateOrUpdate
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]]
 beginDelete                *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]]
 newListByResourceGroupPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]]
 newListBySubscriptionPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]]
 beginUpdate
                *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]]
}

// Do implements the policy.Transporter interface for LicensesServerTransport.
func (l *LicensesServerTransport) Do(req *http.Request) (*http.Response, error) {
 rawMethod := req.Context().Value(runtime.CtxAPINameKey{})
 method, ok := rawMethod.(string)
 if !ok {
  return nil, nonRetriableError{errors.New("unable to dispatch request, missing value for CtxAPINameKey")}
 }

 var resp *http.Response
 var err error

 switch method {
 case "LicensesClient.BeginCreateOrUpdate":
  resp, err = l.dispatchBeginCreateOrUpdate(req)
 case "LicensesClient.BeginDelete":
  resp, err = l.dispatchBeginDelete(req)
 case "LicensesClient.Get":
  resp, err = l.dispatchGet(req)
 case "LicensesClient.NewListByResourceGroupPager":
  resp, err = l.dispatchNewListByResourceGroupPager(req)
 case "LicensesClient.NewListBySubscriptionPager":
```

```
 resp, err = l.dispatchNewListBySubscriptionPager(req)
 case
 "LicensesClient.BeginUpdate":
  resp, err = l.dispatchBeginUpdate(req)
 default:
  err = fmt.Errorf("unhandled API %s", method)
 }

 if err != nil {
  return nil, err
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginCreateOrUpdate(req *http.Request) (*http.Response, error) {
 if l.srv.BeginCreateOrUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginCreateOrUpdate not implemented")}
 }
 beginCreateOrUpdate := l.beginCreateOrUpdate.get(req)
 if beginCreateOrUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body,
 err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginCreateOrUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body,
nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginCreateOrUpdate = &respr
```

```
 l.beginCreateOrUpdate.add(req, beginCreateOrUpdate)
 }

 resp, err := server.PollerResponderNext(beginCreateOrUpdate, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginCreateOrUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if
 !server.PollerResponderMore(beginCreateOrUpdate) {
  l.beginCreateOrUpdate.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginDelete(req *http.Request) (*http.Response, error) {
 if l.srv.BeginDelete == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginDelete not implemented")}
 }
 beginDelete := l.beginDelete.get(req)
 if beginDelete == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return
 nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginDelete(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
```

```
 beginDelete = &respr
 l.beginDelete.add(req, beginDelete)
 }

 resp, err := server.PollerResponderNext(beginDelete, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK, http.StatusNoContent}, resp.StatusCode) {
  l.beginDelete.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK,
http.StatusNoContent", resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginDelete) {
  l.beginDelete.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchGet(req *http.Request) (*http.Response, error) {
 if l.srv.Get == nil {
  return nil, &nonRetriableError{errors.New("fake
 for method Get not implemented")}
 }
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
 regex := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 3 {
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
  return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.Get(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 respContent := server.GetResponseContent(respr)
 if
```

```
 !contains([]int{http.StatusOK}, respContent.HTTPStatus) {
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
respContent.HTTPStatus)}
 }
 resp, err := server.MarshalResponseAsJSON(respContent, server.GetResponse(respr).License, req)
 if err != nil {
  return nil, err
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListByResourceGroupPager(req *http.Request) (*http.Response,
error) {
 if l.srv.NewListByResourceGroupPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListByResourceGroupPager not implemented")}
 }
 newListByResourceGroupPager := l.newListByResourceGroupPager.get(req)
 if newListByResourceGroupPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches :=
 regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 2 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  resp := l.srv.NewListByResourceGroupPager(resourceGroupNameParam, nil)
  newListByResourceGroupPager = &resp
  l.newListByResourceGroupPager.add(req, newListByResourceGroupPager)
  server.PagerResponderInjectNextLinks(newListByResourceGroupPager, req, func(page
*armhybridcompute.LicensesClientListByResourceGroupResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp, err := server.PagerResponderNext(newListByResourceGroupPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListByResourceGroupPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values
 are http.StatusOK", resp.StatusCode)}
 }
```

```
 if !server.PagerResponderMore(newListByResourceGroupPager) {
  l.newListByResourceGroupPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListBySubscriptionPager(req *http.Request) (*http.Response, error)
{
 if l.srv.NewListBySubscriptionPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListBySubscriptionPager not implemented")}
 }
 newListBySubscriptionPager := l.newListBySubscriptionPager.get(req)
 if newListBySubscriptionPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 1 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resp := l.srv.NewListBySubscriptionPager(nil)
  newListBySubscriptionPager = &resp
  l.newListBySubscriptionPager.add(req,
 newListBySubscriptionPager)
  server.PagerResponderInjectNextLinks(newListBySubscriptionPager, req, func(page
*armhybridcompute.LicensesClientListBySubscriptionResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp, err := server.PagerResponderNext(newListBySubscriptionPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListBySubscriptionPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListBySubscriptionPager) {
  l.newListBySubscriptionPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginUpdate(req *http.Request) (*http.Response, error) {
 if l.srv.BeginUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginUpdate not implemented")}
 }
```

```
 beginUpdate := l.beginUpdate.get(req)
 if
 beginUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.LicenseUpdate](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body, nil)
  if respErr := server.GetError(errRespr,
 req); respErr != nil {
   return nil, respErr
  }
  beginUpdate = &respr
  l.beginUpdate.add(req, beginUpdate)
 }

 resp, err := server.PollerResponderNext(beginUpdate, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginUpdate) {
  l.beginUpdate.remove(req)
 }

 return resp, nil
}
```

```
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// +build go1.18

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// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package armhybridcompute

import (
 "context"
 "errors"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/arm"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/policy"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "net/http"
 "net/url"
 "strings"
)

// LicensesClient contains the methods for the Licenses group.
// Don't use this type directly, use NewLicensesClient() instead.
type LicensesClient struct {
 internal       *arm.Client
 subscriptionID string
}

// NewLicensesClient creates a new instance of LicensesClient with the specified values.
//   - subscriptionID - The ID of the target
 subscription.
//   - credential - used to authorize requests. Usually a credential from azidentity.
//   - options - pass nil to accept the default values.
func NewLicensesClient(subscriptionID string, credential azcore.TokenCredential, options *arm.ClientOptions)
(*LicensesClient, error) {
 cl, err := arm.NewClient(moduleName, moduleVersion, credential, options)
 if err != nil {
  return nil, err
 }
 client := &LicensesClient{
  subscriptionID: subscriptionID,
  internal:       cl,
 }
 return client, nil
}

// BeginCreateOrUpdate - The operation to create or update a license.
```

```
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-03-31-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - parameters - Parameters supplied to the Create license operation.
//   - options - LicensesClientBeginCreateOrUpdateOptions contains the optional parameters
 for the LicensesClient.BeginCreateOrUpdate
//     method.
func (client *LicensesClient) BeginCreateOrUpdate(ctx context.Context, resourceGroupName string, licenseName
string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions)
(*runtime.Poller[LicensesClientCreateOrUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.createOrUpdate(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// CreateOrUpdate - The operation to create or update a license.
// If the
 operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-03-31-preview
func (client *LicensesClient) createOrUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginCreateOrUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.createOrUpdateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
```

```
 return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// createOrUpdateCreateRequest creates
 the CreateOrUpdate request.
func (client *LicensesClient) createOrUpdateCreateRequest(ctx context.Context, resourceGroupName string,
licenseName string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*policy.Request,
error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx,
 http.MethodPut, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-03-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginDelete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-03-31-preview
```

```
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientBeginDeleteOptions contains the optional parameters for the
LicensesClient.BeginDelete method.
func (client *LicensesClient) BeginDelete(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*runtime.Poller[LicensesClientDeleteResponse],
 error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.deleteOperation(ctx, resourceGroupName, licenseName, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// Delete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-03-31-preview
func (client *LicensesClient) deleteOperation(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*http.Response, error) {
 var err error
 const
 operationName = "LicensesClient.BeginDelete"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.deleteCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK, http.StatusNoContent) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
```

```
 }
 return httpResp, nil
}

// deleteCreateRequest creates the Delete request.
func (client *LicensesClient) deleteCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientBeginDeleteOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodDelete, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-03-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// Get - Retrieves information about the view of a license.
//
 If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-03-31-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientGetOptions contains the optional parameters for the LicensesClient.Get method.
func (client *LicensesClient) Get(ctx context.Context, resourceGroupName string, licenseName string, options
*LicensesClientGetOptions) (LicensesClientGetResponse, error) {
 var err error
 const operationName = "LicensesClient.Get"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
```

```
 defer func() { endSpan(err) }()
 req, err := client.getCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return LicensesClientGetResponse{}, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil
 {
  return LicensesClientGetResponse{}, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return LicensesClientGetResponse{}, err
 }
 resp, err := client.getHandleResponse(httpResp)
 return resp, err
}

// getCreateRequest creates the Get request.
func (client *LicensesClient) getCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientGetOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
 licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-03-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}
```

```
// getHandleResponse handles the Get response.
func (client *LicensesClient) getHandleResponse(resp *http.Response) (LicensesClientGetResponse, error) {
 result := LicensesClientGetResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.License); err != nil {
  return LicensesClientGetResponse{}, err
 }
 return result, nil
}

// NewListByResourceGroupPager - The operation to get all licenses of a non-Azure machine
//
// Generated from
 API version 2024-03-31-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - options - LicensesClientListByResourceGroupOptions contains the optional parameters for the
LicensesClient.NewListByResourceGroupPager
//     method.
func (client *LicensesClient) NewListByResourceGroupPager(resourceGroupName string, options
*LicensesClientListByResourceGroupOptions) *runtime.Pager[LicensesClientListByResourceGroupResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListByResourceGroupResponse]{
  More: func(page LicensesClientListByResourceGroupResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListByResourceGroupResponse)
(LicensesClientListByResourceGroupResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListByResourceGroupPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp,
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listByResourceGroupCreateRequest(ctx, resourceGroupName, options)
   }, nil)
   if err != nil {
    return LicensesClientListByResourceGroupResponse{}, err
   }
   return client.listByResourceGroupHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listByResourceGroupCreateRequest creates the ListByResourceGroup request.
func (client *LicensesClient) listByResourceGroupCreateRequest(ctx context.Context, resourceGroupName string,
options *LicensesClientListByResourceGroupOptions) (*policy.Request, error) {
 urlPath :=
```

```
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es"
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-03-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listByResourceGroupHandleResponse handles the ListByResourceGroup response.
func (client *LicensesClient) listByResourceGroupHandleResponse(resp *http.Response)
(LicensesClientListByResourceGroupResponse, error) {
 result := LicensesClientListByResourceGroupResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListByResourceGroupResponse{}, err
 }
 return
 result, nil
}

// NewListBySubscriptionPager - The operation to get all licenses of a non-Azure machine
//
// Generated from API version 2024-03-31-preview
//   - options - LicensesClientListBySubscriptionOptions contains the optional parameters for the
LicensesClient.NewListBySubscriptionPager
//     method.
func (client *LicensesClient) NewListBySubscriptionPager(options *LicensesClientListBySubscriptionOptions)
*runtime.Pager[LicensesClientListBySubscriptionResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListBySubscriptionResponse]{
  More: func(page LicensesClientListBySubscriptionResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListBySubscriptionResponse)
(LicensesClientListBySubscriptionResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListBySubscriptionPager")
```

```
  nextLink := ""
  if page != nil {
   nextLink = *page.NextLink
  }
  resp,
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
   return client.listBySubscriptionCreateRequest(ctx, options)
  }, nil)
  if err != nil {
   return LicensesClientListBySubscriptionResponse{}, err
  }
  return client.listBySubscriptionHandleResponse(resp)
 },
 Tracer: client.internal.Tracer(),
})
}

// listBySubscriptionCreateRequest creates the ListBySubscription request.
func (client *LicensesClient) listBySubscriptionCreateRequest(ctx context.Context, options
*LicensesClientListBySubscriptionOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/licenses"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet,
 runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-03-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listBySubscriptionHandleResponse handles the ListBySubscription response.
func (client *LicensesClient) listBySubscriptionHandleResponse(resp *http.Response)
(LicensesClientListBySubscriptionResponse, error) {
 result := LicensesClientListBySubscriptionResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListBySubscriptionResponse{}, err
 }
 return result, nil
}
```

```
// BeginUpdate - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-03-31-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName
 - The name of the license.
//   - parameters - Parameters supplied to the Update license operation.
//   - options - LicensesClientBeginUpdateOptions contains the optional parameters for the
LicensesClient.BeginUpdate method.
func (client *LicensesClient) BeginUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions)
(*runtime.Poller[LicensesClientUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.update(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientUpdateResponse]{
   Tracer:
 client.internal.Tracer(),
  })
 }
}

// Update - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-03-31-preview
func (client *LicensesClient) update(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.updateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
```

```
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return
 nil, err
 }
 return httpResp, nil
}

// updateCreateRequest creates the Update request.
func (client *LicensesClient) updateCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}",
 url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodPatch, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-03-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}
```

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Go support for Protocol Buffers - Google's data interchange format

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1.4962 github.com/moby/docker-image-spec 1.3.1

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1.4968 corepack 0.31.0

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1.4969 github 68.0.0

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package github

import (
 "context"
 "fmt"
 "net/http"
 "testing"

 "github.com/google/go-cmp/cmp"
)

func TestRepositoryLicense_Marshal(t *testing.T) {
 t.Parallel()
 testJSONMarshal(t, &RepositoryLicense{}, "{}")

 rl := &RepositoryLicense{
  Name:        Ptr("n"),
  Path:        Ptr("p"),
  SHA:         Ptr("s"),
  Size:        Ptr(1),
  URL:         Ptr("u"),
  HTMLURL:     Ptr("h"),
  GitURL:      Ptr("g"),
  DownloadURL: Ptr("d"),
  Type:        Ptr("t"),
  Content:     Ptr("c"),
```

```
 Encoding:    Ptr("e"),
 License: &License{
  Key:           Ptr("k"),
  Name:          Ptr("n"),
  URL:           Ptr("u"),
  SPDXID:        Ptr("s"),
  HTMLURL:       Ptr("h"),
  Featured:      Ptr(true),
  Description:   Ptr("d"),
  Implementation: Ptr("i"),
  Permissions:   &[]string{"p"},
  Conditions:    &[]string{"c"},
  Limitations:
   &[]string{"l"},
  Body:          Ptr("b"),
 },
}
want := `{
 "name": "n",
 "path": "p",
 "sha": "s",
 "size": 1,
 "url": "u",
 "html_url": "h",
 "git_url": "g",
 "download_url": "d",
 "type": "t",
 "content": "c",
 "encoding": "e",
 "license": {
  "key": "k",
  "name": "n",
  "url": "u",
  "spdx_id": "s",
  "html_url": "h",
  "featured": true,
  "description": "d",
  "implementation": "i",
  "permissions": ["p"],
  "conditions": ["c"],
  "limitations": ["l"],
  "body": "b"
 }
}`
testJSONMarshal(t, rl, want)
}

func TestLicense_Marshal(t *testing.T) {
```

```
 t.Parallel()
 testJSONMarshal(t, &License{}, "{}")

 l := &License{
  Key:            Ptr("k"),
  Name:           Ptr("n"),
  URL:            Ptr("u"),
  SPDXID:         Ptr("s"),
  HTMLURL:        Ptr("h"),
  Featured:       Ptr(true),
  Description:    Ptr("d"),
  Implementation: Ptr("i"),
  Permissions:    &[]string{"p"},
  Conditions:     &[]string{"c"},
  Limitations:    &[]string{"l"},
  Body:
          Ptr("b"),
 }
 want := `{
  "key": "k",
  "name": "n",
  "url": "u",
  "spdx_id": "s",
  "html_url": "h",
  "featured": true,
  "description": "d",
  "implementation": "i",
  "permissions": ["p"],
  "conditions": ["c"],
  "limitations": ["l"],
  "body": "b"
 }`
 testJSONMarshal(t, l, want)
}

func TestLicensesService_List(t *testing.T) {
 t.Parallel()
 client, mux, _ := setup(t)

 mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {
  testMethod(t, r, "GET")
  fmt.Fprint(w,
`[{"key":"mit","name":"MIT","spdx_id":"MIT","url":"https://api.github.com/licenses/mit","featured":true}]`)
 })

 ctx := context.Background()
 licenses, _, err := client.Licenses.List(ctx)
 if err != nil {
```

```
 t.Errorf("Licenses.List returned error: %v", err)
}

want := []*License{{
 Key:      Ptr("mit"),
 Name:     Ptr("MIT"),
 SPDXID:   Ptr("MIT"),
 URL:      Ptr("https://api.github.com/licenses/mit"),
 Featured: Ptr(true),
}}
if !cmp.Equal(licenses, want)
{
 t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
}

const methodName = "List"
testNewRequestAndDoFailure(t, methodName, client, func() (*Response, error) {
 got, resp, err := client.Licenses.List(ctx)
 if got != nil {
  t.Errorf("testNewRequestAndDoFailure %v = %#v, want nil", methodName, got)
 }
 return resp, err
})
}

func TestLicensesService_Get(t *testing.T) {
t.Parallel()
client, mux, _ := setup(t)

mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
 testMethod(t, r, "GET")
 fmt.Fprint(w, `{"key":"mit","name":"MIT"}`)
})

ctx := context.Background()
license, _, err := client.Licenses.Get(ctx, "mit")
if err != nil {
 t.Errorf("Licenses.Get returned error: %v", err)
}

want := &License{Key: Ptr("mit"), Name: Ptr("MIT")}
if !cmp.Equal(license, want) {
 t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
}

const methodName = "Get"
testBadOptions(t, methodName, func() (err error) {
 _, _, err = client.Licenses.Get(ctx,
```

```
 "\n")
  return err
 })

 testNewRequestAndDoFailure(t, methodName, client, func() (*Response, error) {
  got, resp, err := client.Licenses.Get(ctx, "mit")
  if got != nil {
   t.Errorf("testNewRequestAndDoFailure %v = %#v, want nil", methodName, got)
  }
  return resp, err
 })
}

func TestLicensesService_Get_invalidTemplate(t *testing.T) {
 t.Parallel()
 client, _, _ := setup(t)

 ctx := context.Background()
 _, _, err := client.Licenses.Get(ctx, "%")
 testURLParseError(t, err)
}
```

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package github

import (
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 "fmt"
)

// LicensesService handles communication with the license related
// methods of the GitHub API.
//
// GitHub API docs: https://docs.github.com/rest/licenses/
type LicensesService service

// RepositoryLicense represents the license for a repository.
type RepositoryLicense struct {
 Name *string `json:"name,omitempty"`
 Path *string `json:"path,omitempty"`

 SHA         *string  `json:"sha,omitempty"`
 Size        *int     `json:"size,omitempty"`
 URL         *string  `json:"url,omitempty"`
 HTMLURL     *string  `json:"html_url,omitempty"`
 GitURL      *string  `json:"git_url,omitempty"`
 DownloadURL *string  `json:"download_url,omitempty"`
 Type        *string  `json:"type,omitempty"`
 Content     *string  `json:"content,omitempty"`
 Encoding    *string  `json:"encoding,omitempty"`
 License
     *License `json:"license,omitempty"`
}

func (l RepositoryLicense) String() string {
 return Stringify(l)
}

// License represents an open source license.
type License struct {
 Key  *string `json:"key,omitempty"`
 Name *string `json:"name,omitempty"`
 URL  *string `json:"url,omitempty"`

 SPDXID         *string   `json:"spdx_id,omitempty"`
```

```
 HTMLURL        *string   `json:"html_url,omitempty"`
 Featured       *bool     `json:"featured,omitempty"`
 Description    *string   `json:"description,omitempty"`
 Implementation *string   `json:"implementation,omitempty"`
 Permissions    *[]string `json:"permissions,omitempty"`
 Conditions     *[]string `json:"conditions,omitempty"`
 Limitations    *[]string `json:"limitations,omitempty"`
 Body           *string   `json:"body,omitempty"`
}

func (l License) String() string {
 return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://docs.github.com/rest/licenses/licenses#get-all-commonly-used-licenses
//
//meta:operation
 GET /licenses
func (s *LicensesService) List(ctx context.Context) ([]*License, *Response, error) {
 req, err := s.client.NewRequest("GET", "licenses", nil)
 if err != nil {
  return nil, nil, err
 }

 var licenses []*License
 resp, err := s.client.Do(ctx, req, &licenses)
 if err != nil {
  return nil, resp, err
 }

 return licenses, resp, nil
}

// Get extended metadata for one license.
//
// GitHub API docs: https://docs.github.com/rest/licenses/licenses#get-a-license
//
//meta:operation GET /licenses/{license}
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
 u := fmt.Sprintf("licenses/%s", licenseName)

 req, err := s.client.NewRequest("GET", u, nil)
 if err != nil {
  return nil, nil, err
 }
```

```
 license := new(License)
 resp, err := s.client.Do(ctx, req, license)
 if err != nil {
  return nil, resp, err
 }

 return license, resp, nil
}
```

1.4970 mdlayher-ethtool 0.2.0

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1.4971 wifi 0.3.1

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1.4972 exporter-toolkit 0.14.0

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1.4973 ethtool 0.5.10

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1.4974 jsimonetti-rtnetlink 2.0.2

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1.4975 azure-sdk-for-go-sdk-storage-azblob v0.5.1

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1.4976 azure-sdk-for-go-sdk-azcore v1.11.1

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```
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// +build go1.18

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package fake

import (
 "context"
 "errors"
 "fmt"
 azfake "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake/server"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
 "net/http"
 "net/url"
 "regexp"
)

// LicensesServer is a fake server for instances of the armhybridcompute.LicensesClient type.
type LicensesServer struct {
 // BeginCreateOrUpdate is the fake for method LicensesClient.BeginCreateOrUpdate
 // HTTP status codes to indicate success:
 http.StatusOK
 BeginCreateOrUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
armhybridcompute.License, options *armhybridcompute.LicensesClientBeginCreateOrUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse], errResp
azfake.ErrorResponder)

 // BeginDelete is the fake for method LicensesClient.BeginDelete
 // HTTP status codes to indicate success: http.StatusOK, http.StatusNoContent
 BeginDelete func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientBeginDeleteOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse], errResp azfake.ErrorResponder)
```

```
 // Get is the fake for method LicensesClient.Get
 // HTTP status codes to indicate success: http.StatusOK
 Get func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientGetOptions) (resp
azfake.Responder[armhybridcompute.LicensesClientGetResponse],
 errResp azfake.ErrorResponder)

 // NewListByResourceGroupPager is the fake for method LicensesClient.NewListByResourceGroupPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListByResourceGroupPager func(resourceGroupName string, options
*armhybridcompute.LicensesClientListByResourceGroupOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse])

 // NewListBySubscriptionPager is the fake for method LicensesClient.NewListBySubscriptionPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListBySubscriptionPager func(options *armhybridcompute.LicensesClientListBySubscriptionOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse])

 // BeginUpdate is the fake for method LicensesClient.BeginUpdate
 // HTTP status codes to indicate success: http.StatusOK
 BeginUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
 armhybridcompute.LicenseUpdate, options *armhybridcompute.LicensesClientBeginUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse], errResp azfake.ErrorResponder)

 // BeginValidateLicense is the fake for method LicensesClient.BeginValidateLicense
 // HTTP status codes to indicate success: http.StatusOK
 BeginValidateLicense func(ctx context.Context, parameters armhybridcompute.License, options
*armhybridcompute.LicensesClientBeginValidateLicenseOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse], errResp
azfake.ErrorResponder)
}

// NewLicensesServerTransport creates a new instance of LicensesServerTransport with the provided
implementation.
// The returned LicensesServerTransport instance is connected to an instance of armhybridcompute.LicensesClient
via the
// azcore.ClientOptions.Transporter field in the client's constructor parameters.
func NewLicensesServerTransport(srv *LicensesServer) *LicensesServerTransport
 {
 return &LicensesServerTransport{
  srv:                    srv,
  beginCreateOrUpdate:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]]() ,
  beginDelete:            newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]]() ,
  newListByResourceGroupPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]]() ,
  newListBySubscriptionPager:
```

```
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]](),
  beginUpdate:                newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]](),
  beginValidateLicense:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]](),
 }
}

// LicensesServerTransport connects instances of armhybridcompute.LicensesClient to instances of LicensesServer.
// Don't use this type directly, use NewLicensesServerTransport
 instead.
type LicensesServerTransport struct {
 srv                         *LicensesServer
 beginCreateOrUpdate
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]]
 beginDelete                 *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]]
 newListByResourceGroupPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]]
 newListBySubscriptionPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]]
 beginUpdate                 *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]]
 beginValidateLicense
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]]
}

// Do implements the policy.Transporter interface for LicensesServerTransport.
func (l *LicensesServerTransport) Do(req *http.Request) (*http.Response, error) {
 rawMethod := req.Context().Value(runtime.CtxAPINameKey{})
 method,
 ok := rawMethod.(string)
 if !ok {
  return nil, nonRetriableError{errors.New("unable to dispatch request, missing value for CtxAPINameKey")}
 }

 var resp *http.Response
 var err error

 switch method {
 case "LicensesClient.BeginCreateOrUpdate":
  resp, err = l.dispatchBeginCreateOrUpdate(req)
 case "LicensesClient.BeginDelete":
  resp, err = l.dispatchBeginDelete(req)
 case "LicensesClient.Get":
  resp, err = l.dispatchGet(req)
 case "LicensesClient.NewListByResourceGroupPager":
  resp, err = l.dispatchNewListByResourceGroupPager(req)
 case "LicensesClient.NewListBySubscriptionPager":
  resp, err = l.dispatchNewListBySubscriptionPager(req)
 case "LicensesClient.BeginUpdate":
```

```
 resp, err = l.dispatchBeginUpdate(req)
 case "LicensesClient.BeginValidateLicense":
  resp, err = l.dispatchBeginValidateLicense(req)
 default:
  err = fmt.Errorf("unhandled API %s", method)
 }

 if err != nil {
  return nil, err
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginCreateOrUpdate(req
 *http.Request) (*http.Response, error) {
 if l.srv.BeginCreateOrUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginCreateOrUpdate not implemented")}
 }
 beginCreateOrUpdate := l.beginCreateOrUpdate.get(req)
 if beginCreateOrUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return
 nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginCreateOrUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body,
nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginCreateOrUpdate = &respr
```

```
 l.beginCreateOrUpdate.add(req, beginCreateOrUpdate)
 }

 resp, err := server.PollerResponderNext(beginCreateOrUpdate, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginCreateOrUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginCreateOrUpdate) {
  l.beginCreateOrUpdate.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginDelete(req *http.Request) (*http.Response, error) {
 if l.srv.BeginDelete
 == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginDelete not implemented")}
 }
 beginDelete := l.beginDelete.get(req)
 if beginDelete == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginDelete(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
  if
 respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
```

```
 beginDelete = &respr
 l.beginDelete.add(req, beginDelete)
 }

 resp, err := server.PollerResponderNext(beginDelete, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK, http.StatusNoContent}, resp.StatusCode) {
  l.beginDelete.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK,
http.StatusNoContent", resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginDelete) {
  l.beginDelete.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchGet(req *http.Request) (*http.Response, error) {
 if l.srv.Get == nil {
  return nil, &nonRetriableError{errors.New("fake for method Get not implemented")}
 }
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
 regex
 := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 3 {
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
  return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.Get(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 respContent := server.GetResponseContent(respr)
 if !contains([]int{http.StatusOK}, respContent.HTTPStatus) {
```

```
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
respContent.HTTPStatus)}
 }
 resp, err := server.MarshalResponseAsJSON(respContent,
 server.GetResponse(respr).License, req)
 if err != nil {
  return nil, err
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListByResourceGroupPager(req *http.Request) (*http.Response,
error) {
 if l.srv.NewListByResourceGroupPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListByResourceGroupPager not implemented")}
 }
 newListByResourceGroupPager := l.newListByResourceGroupPager.get(req)
 if newListByResourceGroupPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 2 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if
 err != nil {
   return nil, err
  }
  resp := l.srv.NewListByResourceGroupPager(resourceGroupNameParam, nil)
  newListByResourceGroupPager = &resp
  l.newListByResourceGroupPager.add(req, newListByResourceGroupPager)
  server.PagerResponderInjectNextLinks(newListByResourceGroupPager, req, func(page
*armhybridcompute.LicensesClientListByResourceGroupResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp, err := server.PagerResponderNext(newListByResourceGroupPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListByResourceGroupPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
```

```
 if !server.PagerResponderMore(newListByResourceGroupPager) {
  l.newListByResourceGroupPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListBySubscriptionPager(req *http.Request)
 (*http.Response, error) {
 if l.srv.NewListBySubscriptionPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListBySubscriptionPager not implemented")}
 }
 newListBySubscriptionPager := l.newListBySubscriptionPager.get(req)
 if newListBySubscriptionPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 1 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resp := l.srv.NewListBySubscriptionPager(nil)
  newListBySubscriptionPager = &resp
  l.newListBySubscriptionPager.add(req, newListBySubscriptionPager)
  server.PagerResponderInjectNextLinks(newListBySubscriptionPager, req, func(page
*armhybridcompute.LicensesClientListBySubscriptionResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp,
 err := server.PagerResponderNext(newListBySubscriptionPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListBySubscriptionPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListBySubscriptionPager) {
  l.newListBySubscriptionPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginUpdate(req *http.Request) (*http.Response, error) {
 if l.srv.BeginUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginUpdate not implemented")}
 }
```

```
 beginUpdate := l.beginUpdate.get(req)
 if beginUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex
 := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.LicenseUpdate](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body, nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginUpdate = &respr
  l.beginUpdate.add(req, beginUpdate)
 }

 resp, err := server.PollerResponderNext(beginUpdate, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK},
 resp.StatusCode) {
  l.beginUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginUpdate) {
  l.beginUpdate.remove(req)
 }

 return resp, nil
}
```

```
func (l *LicensesServerTransport) dispatchBeginValidateLicense(req *http.Request) (*http.Response, error) {
 if l.srv.BeginValidateLicense == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginValidateLicense not implemented")}
 }
 beginValidateLicense := l.beginValidateLicense.get(req)
 if beginValidateLicense == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/validateLicense`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 1 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body,
 err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginValidateLicense(req.Context(), body, nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginValidateLicense = &respr
  l.beginValidateLicense.add(req, beginValidateLicense)
 }

 resp, err := server.PollerResponderNext(beginValidateLicense, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginValidateLicense.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginValidateLicense) {
  l.beginValidateLicense.remove(req)
 }

 return resp, nil
}
```

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```
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//go:build go1.18
// +build go1.18

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// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package armhybridcompute

import (
 "context"
 "errors"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/arm"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/policy"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "net/http"
 "net/url"
 "strings"
)

// LicensesClient contains the methods for the Licenses group.
// Don't use this type directly, use NewLicensesClient() instead.
type LicensesClient struct {
 internal       *arm.Client
 subscriptionID string
}

// NewLicensesClient creates a new instance of LicensesClient with the specified values.
//   - subscriptionID - The ID of the target
 subscription.
//   - credential - used to authorize requests. Usually a credential from azidentity.
//   - options - pass nil to accept the default values.
func NewLicensesClient(subscriptionID string, credential azcore.TokenCredential, options *arm.ClientOptions)
(*LicensesClient, error) {
 cl, err := arm.NewClient(moduleName, moduleVersion, credential, options)
 if err != nil {
  return nil, err
 }
 client := &LicensesClient{
  subscriptionID: subscriptionID,
  internal:       cl,
 }
 return client, nil
}
```

```
// BeginCreateOrUpdate - The operation to create or update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - parameters - Parameters supplied to the Create license operation.
//   - options - LicensesClientBeginCreateOrUpdateOptions contains the optional parameters
 for the LicensesClient.BeginCreateOrUpdate
//     method.
func (client *LicensesClient) BeginCreateOrUpdate(ctx context.Context, resourceGroupName string, licenseName
string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions)
(*runtime.Poller[LicensesClientCreateOrUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.createOrUpdate(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// CreateOrUpdate - The operation to create or update a license.
// If the
 operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) createOrUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginCreateOrUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.createOrUpdateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
```

```
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// createOrUpdateCreateRequest creates
 the CreateOrUpdate request.
func (client *LicensesClient) createOrUpdateCreateRequest(ctx context.Context, resourceGroupName string,
licenseName string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*policy.Request,
error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx,
 http.MethodPut, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginDelete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
```

```
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientBeginDeleteOptions contains the optional parameters for the
LicensesClient.BeginDelete method.
func (client *LicensesClient) BeginDelete(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*runtime.Poller[LicensesClientDeleteResponse],
 error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.deleteOperation(ctx, resourceGroupName, licenseName, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// Delete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) deleteOperation(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*http.Response, error) {
 var err error
 const
 operationName = "LicensesClient.BeginDelete"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.deleteCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK, http.StatusNoContent) {
  err = runtime.NewResponseError(httpResp)
```

```
 return nil, err
 }
 return httpResp, nil
}

// deleteCreateRequest creates the Delete request.
func (client *LicensesClient) deleteCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientBeginDeleteOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodDelete, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// Get - Retrieves information about the view of a license.
//
 If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientGetOptions contains the optional parameters for the LicensesClient.Get method.
func (client *LicensesClient) Get(ctx context.Context, resourceGroupName string, licenseName string, options
*LicensesClientGetOptions) (LicensesClientGetResponse, error) {
 var err error
 const operationName = "LicensesClient.Get"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
```

```
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.getCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return LicensesClientGetResponse{}, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil
 {
  return LicensesClientGetResponse{}, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return LicensesClientGetResponse{}, err
 }
 resp, err := client.getHandleResponse(httpResp)
 return resp, err
}

// getCreateRequest creates the Get request.
func (client *LicensesClient) getCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientGetOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
 licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}
```

```
// getHandleResponse handles the Get response.
func (client *LicensesClient) getHandleResponse(resp *http.Response) (LicensesClientGetResponse, error) {
 result := LicensesClientGetResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.License); err != nil {
  return LicensesClientGetResponse{}, err
 }
 return result, nil
}

// NewListByResourceGroupPager - The operation to get all licenses of a non-Azure machine
//
// Generated from
 API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - options - LicensesClientListByResourceGroupOptions contains the optional parameters for the
LicensesClient.NewListByResourceGroupPager
//     method.
func (client *LicensesClient) NewListByResourceGroupPager(resourceGroupName string, options
*LicensesClientListByResourceGroupOptions) *runtime.Pager[LicensesClientListByResourceGroupResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListByResourceGroupResponse]{
  More: func(page LicensesClientListByResourceGroupResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListByResourceGroupResponse)
(LicensesClientListByResourceGroupResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListByResourceGroupPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp,
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listByResourceGroupCreateRequest(ctx, resourceGroupName, options)
   }, nil)
   if err != nil {
    return LicensesClientListByResourceGroupResponse{}, err
   }
   return client.listByResourceGroupHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listByResourceGroupCreateRequest creates the ListByResourceGroup request.
func (client *LicensesClient) listByResourceGroupCreateRequest(ctx context.Context, resourceGroupName string,
options *LicensesClientListByResourceGroupOptions) (*policy.Request, error) {
```

```
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es"
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listByResourceGroupHandleResponse handles the ListByResourceGroup response.
func (client *LicensesClient) listByResourceGroupHandleResponse(resp *http.Response)
(LicensesClientListByResourceGroupResponse, error) {
 result := LicensesClientListByResourceGroupResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListByResourceGroupResponse{}, err
 }
 return
 result, nil
}

// NewListBySubscriptionPager - The operation to get all licenses of a non-Azure machine
//
// Generated from API version 2023-06-20-preview
//   - options - LicensesClientListBySubscriptionOptions contains the optional parameters for the
LicensesClient.NewListBySubscriptionPager
//     method.
func (client *LicensesClient) NewListBySubscriptionPager(options *LicensesClientListBySubscriptionOptions)
*runtime.Pager[LicensesClientListBySubscriptionResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListBySubscriptionResponse]{
  More: func(page LicensesClientListBySubscriptionResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListBySubscriptionResponse)
(LicensesClientListBySubscriptionResponse, error) {
```

```
  ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListBySubscriptionPager")
  nextLink := ""
  if page != nil {
   nextLink = *page.NextLink
  }
  resp,
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
   return client.listBySubscriptionCreateRequest(ctx, options)
  }, nil)
  if err != nil {
   return LicensesClientListBySubscriptionResponse{}, err
  }
  return client.listBySubscriptionHandleResponse(resp)
 },
 Tracer: client.internal.Tracer(),
})
}

// listBySubscriptionCreateRequest creates the ListBySubscription request.
func (client *LicensesClient) listBySubscriptionCreateRequest(ctx context.Context, options
*LicensesClientListBySubscriptionOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/licenses"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet,
 runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listBySubscriptionHandleResponse handles the ListBySubscription response.
func (client *LicensesClient) listBySubscriptionHandleResponse(resp *http.Response)
(LicensesClientListBySubscriptionResponse, error) {
 result := LicensesClientListBySubscriptionResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListBySubscriptionResponse{}, err
 }
 return result, nil
}
```

```
// BeginUpdate - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName
 - The name of the license.
//   - parameters - Parameters supplied to the Update license operation.
//   - options - LicensesClientBeginUpdateOptions contains the optional parameters for the
LicensesClient.BeginUpdate method.
func (client *LicensesClient) BeginUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions)
(*runtime.Poller[LicensesClientUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.update(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientUpdateResponse]{
   Tracer:
 client.internal.Tracer(),
  })
 }
}

// Update - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) update(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.updateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
```

```
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return
 nil, err
 }
 return httpResp, nil
}

// updateCreateRequest creates the Update request.
func (client *LicensesClient) updateCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}",
 url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodPatch, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
```

```
// Generated from API version 2023-06-20-preview
//   - parameters - Parameters supplied to the license validation operation.
//   - options - LicensesClientBeginValidateLicenseOptions contains the optional parameters for the
LicensesClient.BeginValidateLicense
//     method.
func (client *LicensesClient) BeginValidateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions)
 (*runtime.Poller[LicensesClientValidateLicenseResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.validateLicense(ctx, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientValidateLicenseResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientValidateLicenseResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// ValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) validateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions)
 (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginValidateLicense"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.validateLicenseCreateRequest(ctx, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
```

```
 return nil, err
 }
 return httpResp, nil
}

// validateLicenseCreateRequest creates the ValidateLicense request.
func (client *LicensesClient) validateLicenseCreateRequest(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/validateLicense"
 if client.subscriptionID
 == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodPost, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}
```

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```
//go:build go1.18
// +build go1.18

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// Changes may cause incorrect behavior and will be lost if the code is regenerated.
// DO NOT EDIT.

package armhybridcompute_test

import (
 "context"
 "log"

 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/azidentity"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
)

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_ValidateLicense.json
func ExampleLicensesClient_BeginValidateLicense() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err !=
 nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginValidateLicense(ctx, armhybridcompute.License{
  Location: to.Ptr("eastus2euap"),
```

```
  Properties: &armhybridcompute.LicenseProperties{
   LicenseDetails: &armhybridcompute.LicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err !=
 nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID: to.Ptr("/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/Licenses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](2),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //
    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_CreateOrUpdate.json
```

```
func ExampleLicensesClient_BeginCreateOrUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginCreateOrUpdate(ctx, "myResourceGroup",
 "{licenseName}", armhybridcompute.License{
  Location: to.Ptr("eastus2euap"),
  Properties: &armhybridcompute.LicenseProperties{
   LicenseDetails: &armhybridcompute.LicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values
 in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](2),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
```

```
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated
 from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_Update.json
func ExampleLicensesClient_BeginUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginUpdate(ctx, "myResourceGroup", "{licenseName}",
armhybridcompute.LicenseUpdate{
  Properties: &armhybridcompute.LicenseUpdateProperties{
   LicenseDetails: &armhybridcompute.LicenseUpdatePropertiesLicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors:
 to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
```

```
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/lice
nses/{licenseName}"),
 //
  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

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specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_Get.json
func ExampleLicensesClient_Get() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if
 err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 res, err := clientFactory.NewLicensesClient().Get(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
```

```
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //
  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_Delete.json
func ExampleLicensesClient_BeginDelete()
 {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginDelete(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 _, err = poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
}
```

```
// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-
preview/examples/license/License_ListByResourceGroup.json
func ExampleLicensesClient_NewListByResourceGroupPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if
 err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListByResourceGroupPager("myResourceGroup", nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
   // You could use page here. We use blank identifier for just demo purposes.
   _ = v
  }
  // If the HTTP response code is 200 as defined in example definition, your page structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
  // page.LicensesListResult = armhybridcompute.LicensesListResult{
  //  Value: []*armhybridcompute.License{
  //   {
  //    Name: to.Ptr("{licenseName}"),
  //
   Type: to.Ptr("Microsoft.HybridCompute/licenses"),
  //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
  //    Location: to.Ptr("eastus2euap"),
  //    Properties: &armhybridcompute.LicenseProperties{
  //     LicenseDetails: &armhybridcompute.LicenseDetails{
  //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
  //      AssignedLicenses: to.Ptr[int32](8),
  //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
  //      ImmutableID: to.Ptr("<generated Guid>"),
  //      Processors: to.Ptr[int32](6),
  //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
  //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
  //     },
  //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
```

```
 //     TenantID: to.Ptr("{tenandId}"),
 //    },
 //  }},
 // }
 }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-
preview/examples/license/License_ListBySubscription.json
func
 ExampleLicensesClient_NewListBySubscriptionPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListBySubscriptionPager(nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
   // You could use page here. We use blank identifier for just demo purposes.
   _ = v
  }
  // If the HTTP response code is 200 as defined in example definition, your page structure would look as
 follows. Please pay attention that all the values in the output are fake values for just demo purposes.
  // page.LicensesListResult = armhybridcompute.LicensesListResult{
  //  Value: []*armhybridcompute.License{
  //   {
  //    Name: to.Ptr("{licenseName}"),
  //    Type: to.Ptr("Microsoft.HybridCompute/licenses"),
  //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
  //    Location: to.Ptr("eastus2euap"),
  //    Properties: &armhybridcompute.LicenseProperties{
  //     LicenseDetails: &armhybridcompute.LicenseDetails{
  //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
  //      AssignedLicenses: to.Ptr[int32](8),
  //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
```

```
//      ImmutableID: to.Ptr("<generated Guid>"),
//      Processors: to.Ptr[int32](6),
//      State: to.Ptr(armhybridcompute.LicenseStateActivated),
//      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//
    },
//     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
//     TenantID: to.Ptr("{tenandId}"),
//    },
//  }},
// }
}
}
```

1.4977 protoc-gen-validate 1.2.1

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1.4978 kubernetes-api 0.32.2

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build() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 PERL_MM_USE_DEFAULT=1 perl -I. Makefile.PL \
  INSTALLDIRS=vendor \
  NO_PACKLIST=1 \
  NO_PERLLOCAL=1
 make
}

check() {
 export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
 make test
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="
d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16dfa5417f663b
8065ba65f4fea16dc9262728b3b6b85
  BSD-Resource-1.2911.tar.gz
"
# Maintainer: fossdd <fossdd@pwned.life>
pkgname=cargo-license
pkgver=0.6.1
pkgrel=1
pkgdesc="Cargo subcommand to see license of dependencies"
url="https://github.com/onur/cargo-license"
arch="all"
license="MIT"
makedepends="cargo cargo-auditable"
```

```
source="$pkgname-$pkgver.tar.gz::https://crates.io/api/v1/crates/cargo-license/$pkgver/download"

prepare() {
 default_prepare

 cargo fetch --target="$CTARGET" --locked
}

build() {
 cargo auditable build --release --frozen
}

check() {
 cargo test --frozen
}

package() {
 install -Dm755 target/release/cargo-license -t "$pkgdir"/usr/bin
}

sha512sums="
36215145e79965be090ae2f5ce6f5eb208465eb67a94c26bed1fe70a131c46c6dc35695e30852759b7366883fbc3caf00
272d796ac634f0a5e1d49232b6b29d5  cargo-license-0.6.1.tar.gz
"
```

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pkgrel=0
pkgdesc="Library to parse, compare, simplify and normalize license expressions"
url="https://github.com/nexB/license-expression"
arch="noarch"
license="Apache-2.0"
depends="python3 py3-boolean.py"
makedepends="py3-setuptools py3-setuptools_scm py3-gpep517 py3-wheel"
checkdepends="py3-pytest py3-pytest-xdist"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/l/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir/$_pkgname-$pkgver"

build() {
 gpep517 build-wheel \
  --wheel-dir .dist \
  --output-fd 3 3>&1 >&2
}

check() {
 python3 -m venv --clear --without-pip --system-site-packages .testenv
 .testenv/bin/python3 -m installer .dist/*.whl
 .testenv/bin/python3 -m pytest
}

package() {
 python3 -m installer -d "$pkgdir" \
  .dist/*.whl
}

sha512sums="
cc7cd6b5bd8ea4c99b66f074871ffd7cc78b3e8b1b0d3afd9b95efdb7147c8293db2fac977d684fc34d3d60bd79066a06
dc2bff0a38b130d9d83c63538502db1
  license_expression-30.4.0.tar.gz
"
```

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# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=8
pkgdesc="A library for high-performance 2D graphics"
url="https://www.levien.com/libart/"
arch="all"
options="!check"  # No test suite.
license="LGPL-2.0-or-later"
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
 "

builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
 update_config_sub
 default_prepare
}

build() {
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr
 make
}

package() {
 make DESTDIR="$pkgdir" install
}

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7
6654309e001aee9bace727b5b4c8589405256a3c020  libart_lgpl-2.3.21.tar.bz2"
```

1.4985 openssh 8.9p1-3ubuntu0.11

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 - GMP is no longer used, and instead we call BN code from OpenSSL
 - Zlib is now external, in a library
 - The make-ssh-known-hosts script is no longer included
 - TSS has been removed
 - MD5 is now external, in the OpenSSL library
```

- RC4 support has been replaced with ARC4 support from OpenSSL
- Blowfish is now external, in the OpenSSL library

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*
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*
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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that
any
application-supplied function or table used by this function must
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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the work with the complete corresponding
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1.4991 libonig5 6.9.7.1-2build1

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1.5005 liblmdb0 0.9.24-1build2

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1.5008 klauspost-compress 1.18.0

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package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
```

```
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier:
 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy: []gax.CallOption{
```

```
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 Insert: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 List: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 SetIamPolicy: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 TestIamPermissions:
[]gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
}
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
```

```
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest,
 ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}
```

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy
 gets the access control policy for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like
 Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution
 This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

```
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
//
 The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC
```

```
 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
//
 Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
```

```
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers
 := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }
```

```
 return nil
 }, opts...)
 if
 e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts
 = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
```

```
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource.
 May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party
partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))
```

```
 headers
 := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if
 e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
```

party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v", "project",
 url.QueryEscape(req.GetProject())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()
```

```
 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err !=
nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true,
 DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
```

```
 req.MaxResults = proto.Uint32(uint32(pageSize))
 }
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, "", err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.Filter != nil {
  params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
 }
 if req != nil && req.MaxResults != nil {
  params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
 }
 if req != nil && req.OrderBy != nil {
  params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req != nil && req.PageToken != nil {
  params.Add("pageToken", fmt.Sprintf("%v",
req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
```

```
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return
err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial:
 true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }
```

```
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path
 != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }
```

```
 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
 error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e
 := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
```

```
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
 items    []*computepb.License
 pageInfo *iterator.PageInfo
 nextFunc func() error

 // Response is the raw response for the current page.
 // It
 must be cast to the RPC response type.
 // Calling Next() or InternalFetch() updates this value.
 Response interface{}

 // InternalFetch is for use by the Google Cloud Libraries only.
 // It is not part of the stable interface of this package.
 //
 // InternalFetch returns results from a single call to the underlying RPC.
 // The number of results is no greater than pageSize.
 // If there are no more results, nextPageToken is empty and err is nil.
 InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
```

```
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
 return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
 var item *computepb.License
 if
 err := it.nextFunc(); err != nil {
  return item, err
 }
 item = it.items[0]
 it.items = it.items[1:]
 return item, nil
}

func (it *LicenseIterator) bufLen() int {
 return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
 b := it.items
 it.items = nil
 return b
}
```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

```
 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
```

```
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
```

```
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
```

```
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
 }
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range
 values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
```

```
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown
 in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)
```

```
func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
```

```
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "net/http"
 "net/url"
 "time"
```

```
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get               []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
 return &LicenseCodesCallOptions{
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google
 Compute Engine API.
type internalLicenseCodesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
```

```
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func
 (c *LicenseCodesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption)
 (*computepb.LicenseCode, error) {
 return c.internalClient.Get(ctx, req, opts...)
```

```
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions
}

//
 NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}
```

```
func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return
 a specified license code. License codes are mirrored across all projects that have permissions to read the License
Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
```

```
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by
```

```
 third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
```

```
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
```

1.5011 open-ldap 2.5.18+dfsg-0ubuntu0.22.04.3

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2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
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1.5014 openssl 3.0.2-0ubuntu1.19

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1.5015 gnutls 3.7.3-4ubuntu1.6

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## By Mike Hamburg (Stanford University), 2009
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##
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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called
ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
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All Python releases are Open Source (see http://www.opensource.org for
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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
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Mersenne Twister

The `_random' module includes code based on a download from
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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
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http://www.math.keio.ac.jp/matumoto/emt.html
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Sockets

The `socket' module uses the functions, `getaddrinfo', and
`getnameinfo',
which are coded in separate source files from the WIDE
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
between ascii and binary. This results in a 1000-fold speedup. The C
version is still 5 times faster, though.
- Arguments more compliant with python standard

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see https://opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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1.5024 python3.10-dev 3.10.12-1~22.04.9

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no

2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to

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Thanks to the many outside volunteers who have worked under Guido's
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==========
Distutils2 Contributors
==========

The Distutils2 project was started by Tarek Ziad and is currently
maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order,
and welcome into the Fellowship of the Packaging!

Thanks to:

- Rajiv Abraham
- Ali Afshar
- David Barnett
- Pior Bastida
- Anthony Baxter
- Erik Bray
- C. Titus Brown
- Francisco Martn Brugu
- Nicolas Cadou
- Godefroid Chapelle
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- Luis Rojas
- Erik Rose
- Brian Rosner
- Vinay Sajip
- Victor Stinner
- Alexandre Vassalotti
- Nadeem Vawda
Metadata-Version: 1.0
Name: setuptools
Version: 0.6c9
Summary: Download, build, install, upgrade, and uninstall Python packages -- easily!
Home-page: http://pypi.org/pypi/setuptools
Author: Phillip J. Eby
Author-email: distutils-sig@python.org
License: PSF or ZPL
Description: ==========
    Installing and Using Setuptools
    ==========

    .. contents:: **Table of Contents**

    Installation Instructions

    Windows
    =======

    Install setuptools using the provided ``.exe`` installer. If you've previously
    installed older versions of setuptools, please delete all ``setuptools*.egg``
    and ``setuptools.pth`` files from your system's ``site-packages`` directory
    (and any other ``sys.path`` directories) FIRST.

    If you are upgrading a previous version of setuptools that was installed using
    an ``.exe`` installer,
please be sure to also *uninstall that older version*
    via your system's "Add/Remove Programs" feature, BEFORE installing the newer
    version.

    Once installation is complete, you will find an ``easy_install.exe`` program in
    your Python ``Scripts`` subdirectory. Be sure to add this directory to your
    ``PATH`` environment variable, if you haven't already done so.

RPM-Based Systems
==========

Install setuptools using the provided source RPM. The included ``.spec`` file assumes you are installing using the default ``python`` executable, and is not specific to a particular Python version. The ``easy_install`` executable will be installed to a system ``bin`` directory such as ``/usr/bin``.

If you wish to install to a location other than the default Python installation's default ``site-packages`` directory (and ``$prefix/bin`` for scripts), please use the ``.egg``-based installation approach described in the following section.

Cygwin, Mac OS X, Linux, Other
==========

1. Download the appropriate egg for your version of Python (e.g. ``setuptools-0.6c9-py2.4.egg``). Do NOT rename it.

2. Run it as if it were a shell script, e.g. ``sh setuptools-0.6c9-py2.4.egg``. Setuptools will install itself using the matching version of Python (e.g. ``python2.4``), and will place the ``easy_install`` executable in the default location for installing Python scripts (as determined by the standard distutils configuration files, or by the Python installation).

If you want to install setuptools to somewhere other than ``site-packages`` or your default distutils installation locations for libraries and scripts, you may include EasyInstall command-line options such as ``--prefix``, ``--install-dir``, and so on, following the ``.egg`` filename on the same command line. For example::

sh setuptools-0.6c9-py2.4.egg --prefix=~

You can use ``--help`` to get a full options list, but we recommend consulting the `EasyInstall manual`_ for detailed instructions, especially `the section on custom installation locations`_.

.. _EasyInstall manual: http://peak.telecommunity.com/DevCenter/EasyInstall
.. _the section on custom installation locations: http://peak.telecommunity.com/DevCenter/EasyInstall#custom-installation-locations

Cygwin Note

If you are trying to install setuptools for the **Windows** version of Python
(as opposed to the Cygwin version that lives in ``/usr/bin``), you must make
sure that an appropriate executable (``python2.3``, ``python2.4``, or
``python2.5``) is on your **Cygwin** ``PATH`` when invoking the egg. For
example, doing the following at a Cygwin bash prompt will install setuptools
 for the **Windows** Python found at ``C:\\Python24``::

```
ln -s /cygdrive/c/Python24/python.exe python2.4
PATH=.:$PATH sh setuptools-0.6c9-py2.4.egg
rm python2.4
```

Downloads
=========

All setuptools downloads can be found at `the project's home page in the Python
Package Index`_. Scroll to the very bottom of the page to find the links.

.. _the project's home page in the Python Package Index: http://pypi.org/pypi/setuptools

In addition to the PyPI downloads, the development version of ``setuptools``
is available from the `Python SVN sandbox`_, and in-development versions of the
`0.6 branch`_ are available as well.

.. _0.6 branch: http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06

.. _Python SVN sandbox: http://svn.python.org/projects/sandbox/trunk/setuptools/#egg=setuptools-dev

---
Using
Setuptools and EasyInstall

Here are some of the available manuals, tutorials, and other resources for
learning about Setuptools, Python Eggs, and EasyInstall:

* `The EasyInstall user's guide and reference manual`_
* `The setuptools Developer's Guide`_
* `The pkg_resources API reference`_
* `Package Compatibility Notes`_ (user-maintained)
* `The Internal Structure of Python Eggs`_

Questions, comments, and bug reports should be directed to the `distutils-sig
mailing list`_. If you have written (or know of) any tutorials, documentation,
plug-ins, or other resources for setuptools users, please let us know about
them there, so this reference list can be updated. If you have working,
tested patches to correct problems or add features, you may submit them to
the `setuptools bug tracker`_.

.. _setuptools bug tracker: http://bugs.python.org/setuptools/
.. _Package Compatibility Notes: http://peak.telecommunity.com/DevCenter/PackageNotes
.. _The Internal Structure of Python Eggs: http://peak.telecommunity.com/DevCenter/EggFormats
.. _The setuptools Developer's Guide: http://peak.telecommunity.com/DevCenter/setuptools
.. _The pkg_resources API reference: http://peak.telecommunity.com/DevCenter/PkgResources
.. _The EasyInstall user's guide and reference manual: http://peak.telecommunity.com/DevCenter/EasyInstall
.. _distutils-sig mailing list: http://mail.python.org/pipermail/distutils-sig/

Credits
---

* The original design for the ``.egg`` format and the ``pkg_resources`` API was co-created by Phillip Eby and Bob Ippolito. Bob also implemented the first version of ``pkg_resources``, and supplied the OS X operating system version compatibility algorithm.

* Ian Bicking implemented many early "creature comfort" features of easy_install, including support for downloading via Sourceforge and Subversion repositories. Ian's comments on the Web-SIG about WSGI application deployment also inspired the concept of "entry points" in eggs, and he has given talks at PyCon and elsewhere to inform and educate the community about eggs and setuptools.

* Jim Fulton contributed time and effort to build automated tests of various aspects of ``easy_install``, and supplied the doctests for the command-line ``.exe`` wrappers on Windows.

* Phillip J. Eby is the principal author and maintainer of setuptools, and first proposed the idea of an importable binary distribution format for Python application plug-ins.

* Significant parts of the implementation of setuptools were funded by the Open Source Applications Foundation, to provide a plug-in infrastructure for the Chandler PIM application. In addition, many OSAF staffers (such as Mike "Code Bear" Taylor) contributed their time and stress as guinea pigs for the use of eggs and setuptools, even before eggs were "cool". (Thanks, guys!)

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1.5026 backports.tarfile 1.2.0

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1.5028 openssh-client 8.9p1-3ubuntu0.11

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```
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 *
 * Optimised ANSI C code for the Rijndael cipher (now AES)
 *
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1.5029 golang-glog 1.2.2

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1.5031 net-snmp 5.9.1+dfsg-1ubuntu2.7

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1.5032 genproto-googleapis-rpc 0.0.0-20250207221924-e9438ea467c6

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1.5033 x-oauth2 0.26.0

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 *
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 *
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 * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head>
<meta content="text/html; charset=UTF-8" http-equiv="Content-Type" />
<!--
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
        This file is generated from xml source: DO NOT EDIT
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<title>The Apache License, Version 2.0 - Apache HTTP Server Version 2.4</title>
<link href="./style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
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<link href="./style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" /><link rel="stylesheet" type="text/css" href="./style/css/prettify.css"
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<link href="./images/favicon.ico" rel="shortcut icon" /></head>
<body id="manual-page" class="no-sidebar"><div id="page-header">
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<p class="apache">Apache HTTP Server Version 2.4</p>
<img alt="" src="./images/feather.png" /></div>
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<a href="http://www.apache.org/">Apache</a> &gt; <a href="http://httpd.apache.org/">HTTP Server</a> &gt; <a href="http://httpd.apache.org/docs/">Documentation</a> &gt; <a href="./">Version 2.4</a></div><div id="page-content"><div id="preamble"><h1>The Apache License, Version 2.0</h1>
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var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
(function(w, d) {
  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
    d.write(' \/div>');
    var s = d.createElement('script');
    s.type = 'text/javascript';
    s.async = true;
    s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' +
comments_identifier;
     (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
  }
  else {
    d.write(' Comments are disabled for this page at the moment.\/div>');
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})(window, document);
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
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*
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 *
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regexp.c and regexp.h from https://github.com/ccxvii/minilibs sha 875c33568b5a4aa4fb3dd0c52ea98f7f0e5ca684

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This license covers src/rdhdrhistogram.c which is a C port of
Coda Hale's Golang HdrHistogram https://github.com/codahale/hdrhistogram
at revision 3a0bb77429bd3a61596f5e8a3172445844342120

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/* crc32c.c -- compute CRC-32C using the Intel crc32 instruction
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* Version 1.1 1 Aug 2013 Mark Adler
*/

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Mark Adler
madler@alumni.caltech.edu
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*/

```
enclave {
  include "stdint.h"
  include "stdbool.h"
  include "unistd.h"

  untrusted {
```

```
    int ocall_open([in, string]const char *pathname, int flags,
                bool has_mode, unsigned mode);
    int ocall_openat(int dirfd,
                  [in, string]const char *pathname, int flags,
                  bool has_mode, unsigned mode);
    int ocall_close(int fd);
    ssize_t ocall_read(int fd, [out, size=read_size]void *buf,
                    size_t read_size);
    off_t ocall_lseek(int fd, off_t offset, int whence);
    int ocall_ftruncate(int fd, off_t length);
    int ocall_fsync(int fd);
    int ocall_fdatasync(int fd);
    int ocall_isatty(int fd);
    void ocall_fdopendir(int fd, [out]void **p_dirp);
    /* implementation related to multiple thread */
    void *ocall_readdir([user_check]void
*dirp);
    void ocall_rewinddir([user_check]void *dirp);
    void ocall_seekdir([user_check]void *dirp, long loc);
    long ocall_telldir([user_check]void *dirp);
    int ocall_closedir([user_check]void *dirp);

    int ocall_stat([in, string]const char *pathname,
                [out, size=buf_len]void *buf,
                unsigned int buf_len);
    int ocall_fstat(int fd, [out, size=buf_len]void *buf,
                 unsigned int buf_len);
    int ocall_fstatat(int dirfd, [in, string]const char *pathname,
                   [out, size=buf_len]void *buf,
                   unsigned int buf_len, int flags);

    int ocall_mkdirat(int dirfd, [in, string]const char *pathname,
                   unsigned mode);
    int ocall_link([in, string] const char *oldpath,
                [in, string] const char *newpath);
    int ocall_linkat(int olddirfd, [in, string]const char
*oldpath,
                  int newdirfd, [in, string]const char *newpath,
                  int flags);
    int ocall_unlinkat(int dirfd, [in, string]const char *pathname,
                    int flags);
    ssize_t ocall_readlink([in, string]const char *pathname,
                       [out, size=bufsiz]char *buf,
                       size_t bufsiz);
    ssize_t ocall_readlinkat(int dirfd,
                         [in, string]const char *pathname,
                         [out, size=bufsiz]char *buf,
                         size_t bufsiz);
```

```
int ocall_renameat(int olddirfd,
                   [in, string]const char *oldpath,
                   int newdirfd,
                   [in, string]const char *newpath);
int ocall_symlinkat([in ,string]const char *target,
                    int newdirfd,
                    [in, string]const char *linkpath);


int ocall_ioctl(int fd, unsigned long request,
                [out, size=arg_len]void *arg,
                unsigned int arg_len);
int ocall_fcntl(int fd, int cmd);
int ocall_fcntl_long(int fd, int cmd, long arg);

int ocall_realpath([in, string]const char *path,
                   [out, size=buf_len]char *buf,
                   unsigned int buf_len);
int ocall_posix_fallocate(int fd, off_t offset, off_t len);
int ocall_poll([in, out, size=fds_len]void *fds, unsigned nfds,
               int timeout, unsigned int fds_len);

int ocall_getopt(int argc,
                 [in, size=argv_buf_len]char *argv_buf,
                 unsigned int argv_buf_len,
                 [in, string]const char *optstring);
ssize_t ocall_readv(int fd,
                    [in, out, size=buf_size]char *iov_buf,
                    unsigned int buf_size, int iovcnt,

                bool has_offset, off_t offset);
ssize_t ocall_writev(int fd,
                     [in, size=buf_size]char *iov_buf,
                     unsigned int buf_size, int iovcnt,
                     bool has_offset, off_t offset);

/* time clock */
int ocall_clock_gettime(unsigned clock_id,
                        [out, size=tp_buf_size]void *tp_buf,
                        unsigned int tp_buf_size);
int ocall_clock_getres(int clock_id,
                       [out, size=res_buf_size]void *res_buf,
                       unsigned int res_buf_size);
int ocall_utimensat(int dirfd, [in, string]const char *pathname,
                    [in, size=times_buf_size]const void *times_buf,
                    unsigned int times_buf_size, int flags);
int ocall_futimens(int fd, [in, size=times_buf_size]const void *times_buf,
                   unsigned int times_buf_size);
```

```
 int ocall_clock_nanosleep(unsigned clock_id, int flags,
                        [in, size=req_buf_size]const void *req_buf,
                        unsigned int req_buf_size,
                        [out, size=rem_buf_size]void *rem_buf,
                        unsigned int rem_buf_size);

    int ocall_raise(int sig);

    int ocall_sched_yield();

    int ocall_pthread_rwlock_init([out]void **rwlock, [user_check]void *attr);
    int ocall_pthread_rwlock_destroy([user_check]void *rwlock);
    int ocall_pthread_rwlock_rdlock([user_check]void *rwlock);
    int ocall_pthread_rwlock_wrlock([user_check]void *rwlock);
    int ocall_pthread_rwlock_unlock([user_check]void *rwlock);

    int ocall_get_errno();

    /* sockets */
    int ocall_accept(int sockfd, [in, size=addr_size]void *addr,
            [in, size=4] uint32_t *addrlen, uint32_t addr_size);
    int ocall_bind(int sockfd,
[in, size=addrlen]const void *addr,
            uint32_t addrlen);
    int ocall_connect(int sockfd, [in, size=addrlen]void *addr, uint32_t addrlen);
    int ocall_getsockname(int sockfd, [out, size=addr_size]void *addr,
                    [in, out, size=4]uint32_t *addrlen, uint32_t addr_size);
    int ocall_getpeername(int sockfd, [out, size=addr_size]void *addr,
                    [in, out, size=4]uint32_t *addrlen, uint32_t addr_size);
    int ocall_getsockopt(int sockfd, int level, int optname,
                    [out, size=val_buf_size]void *val_buf,
                    unsigned int val_buf_size,
                    [in, out, size=4]void *len_buf);
    int ocall_listen(int sockfd, int backlog);
    int ocall_recv(int sockfd, [out, size=len]void *buf, size_t len, int flags);
    ssize_t ocall_recvfrom(int sockfd, [out, size=len]void *buf, size_t len, int flags,
                    [out,
size=addr_size]void *src_addr,
                    [in, out, size=4]uint32_t *addrlen, uint32_t addr_size);
    ssize_t ocall_recvmsg(int sockfd,
                    [in, out, size=msg_buf_size]void *msg_buf,
                    unsigned int msg_buf_size,
                    int flags);
    int ocall_send(int sockfd, [in, size=len]const void *buf, size_t len, int flags);
    ssize_t ocall_sendto(int sockfd, [in, size=len]const void *buf, size_t len, int flags,
                    [in, size=addrlen]void *dest_addr, uint32_t addrlen);
    ssize_t ocall_sendmsg(int sockfd,
                    [in, size=msg_buf_size]void *msg_buf,
```

```
                    unsigned int msg_buf_size,
                    int flags);
    int ocall_setsockopt(int sockfd, int level, int optname,
                    [in, size=optlen]void *optval,
                    unsigned int optlen);
    int
 ocall_shutdown(int sockfd, int how);
    int ocall_socket(int domain, int type, int protocol);
  };
};
```

```
##########################################################################
# LICENSE.snappy covers files: snappy.c, snappy.h, snappy_compat.h   #
# originally retrieved from http://github.com/andikleen/snappy-c     #
# git revision 8015f2d28739b9a6076ebaa6c53fe27bc238d219              #
##########################################################################
```

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parts of src/rdmurmur2.c: git@github.com:abrandoned/murmur2.git

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1.5048 luajit 2.1.1739575274

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LuaJIT -- a Just-In-Time Compiler for Lua. https://luajit.org/

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1.5049 go-json 0.10.5

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1.5050 github.com/goccy/go-json 0.10.5

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1.5051 apache2-data 2.4.52-1ubuntu4.13

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<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head>
<meta content="text/html; charset=UTF-8" http-equiv="Content-Type" />
<!--
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
        This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
    -->
<title>The Apache License, Version 2.0 - Apache HTTP Server Version 2.4</title>
<link href="./style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
<link href="./style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No Sidebar - Default font size" />
<link href="./style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" /><link rel="stylesheet"
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type="text/css" href="./style/css/prettify.css"
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<script src="./style/scripts/prettify.min.js" type="text/javascript">
</script>

<link href="./images/favicon.ico" rel="shortcut icon" /></head>
<body id="manual-page" class="no-sidebar">
Modules | Directives | <a
href="http://wiki.apache.org/httpd/FAQ">FAQ | Glossary | <a
href="./sitemap.html">Sitemap
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<img title="<-" alt="<-" src="./images/left.gif" />

Apache > HTTP Server > <a
href="http://httpd.apache.org/docs/">Documentation > Version 2.4 <div id="page-
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var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
(function(w, d) {
  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
      d.write(' <\/div>');
      var s = d.createElement('script');
      s.type = 'text/javascript';
      s.async = true;
      s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' +
comments_identifier;
       (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
  }
  else {
      d.write(' Comments are disabled for this page at the moment.<\/div>');
  }
})(window, document);
//--><!]]></script>
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href="http://wiki.apache.org/httpd/FAQ">FAQ | Glossary | <a
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)

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1.5058 aws-sdk-go 1.55.3

1.5058.1 Available under license :

{
"version": "2.0",
"service": "<p>With License Manager, you can create user-based subscriptions to utilize licensed software with a

per user subscription fee on Amazon EC2 instances. ",
 "operations": {
   "AssociateUser": " Associates the user to an EC2 instance to utilize user-based subscriptions. <note> Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more information, see Viewing your monthly charges in the Amazon Web Services Billing User Guide. </note>",
   "DeregisterIdentityProvider": " Deregisters the identity provider from providing user-based subscriptions. ",
   "DisassociateUser": " Disassociates the user from an EC2 instance providing user-based subscriptions. ",
   "ListIdentityProviders":
 " Lists the identity providers for user-based subscriptions. ",
   "ListInstances": " Lists the EC2 instances providing user-based subscriptions. ",
   "ListProductSubscriptions": " Lists the user-based subscription products available from an identity provider. ",
   "ListUserAssociations": " Lists user associations for an identity provider. ",
   "RegisterIdentityProvider": " Registers an identity provider for user-based subscriptions. ",
   "StartProductSubscription": " Starts a product subscription for a user with the specified identity provider. <note> Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more information, see Viewing your monthly charges in the Amazon Web
 Services Billing User Guide. </note>",
   "StopProductSubscription": " Stops a product subscription for a user with the specified identity provider. ",
   "UpdateIdentityProviderSettings": " Updates additional product configuration settings for the registered identity provider. "
 },
 "shapes": {
   "AccessDeniedException": {
     "base": " You don't have sufficient access to perform this action. ",
     "refs": {
     }
   },
   "ActiveDirectoryIdentityProvider": {
     "base": " Details about an Active Directory identity provider. ",
     "refs": {
       "IdentityProvider$ActiveDirectoryIdentityProvider": " An object that details an Active Directory identity provider. "
     }
   },
   "AssociateUserRequest": {
     "base": null,
     "refs": {
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   },
   "AssociateUserResponse": {
     "base": null,

"refs": {
}
},
"BoxInteger": {
"base": null,
"refs": {
"ListIdentityProvidersRequest$MaxResults":
" Maximum number of results to return in a single call. ",
"ListInstancesRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListProductSubscriptionsRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListUserAssociationsRequest$MaxResults": " Maximum number of results to return in a single call. "
}
},
"ConflictException": {
"base": " The request couldn't be completed because it conflicted with the current state of the resource. ",
"refs": {
}
},
"DeregisterIdentityProviderRequest": {
"base": null,
"refs": {
}
},
"DeregisterIdentityProviderResponse": {
"base": null,
"refs": {
}
},
"DisassociateUserRequest": {
"base": null,
"refs": {
}
},
"DisassociateUserResponse": {
"base": null,
"refs": {
}
},
"Filter": {
"base": " A
filter name and value pair that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs. ",
"refs": {
"FilterList$member": null
}
},
"FilterList": {

"base": null,
"refs": {
"ListInstancesRequest$Filters": " An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify. ",
"ListProductSubscriptionsRequest$Filters": " An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify. ",
"ListUserAssociationsRequest$Filters": " An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify. "
}
},
"IdentityProvider": {
"base": " Details about an identity provider. ",
"refs": {
"AssociateUserRequest$IdentityProvider": " The identity provider of the user. ",
"DeregisterIdentityProviderRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
"DisassociateUserRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
"IdentityProviderSummary$IdentityProvider": " An object that specifies details for the identity provider. ",
"InstanceUserSummary$IdentityProvider": " An object that specifies details for the identity provider. ",
"ListProductSubscriptionsRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
"ListUserAssociationsRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
"ProductUserSummary$IdentityProvider": " An object that specifies details for the identity provider. ",
"RegisterIdentityProviderRequest$IdentityProvider":
" An object that specifies details for the identity provider. ",
"StartProductSubscriptionRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
"StopProductSubscriptionRequest$IdentityProvider": " An object that specifies details for the identity provider. ",
"UpdateIdentityProviderSettingsRequest$IdentityProvider": null
}
},
"IdentityProviderSummary": {
"base": " Describes an identity provider. ",
"refs": {
"DeregisterIdentityProviderResponse$IdentityProviderSummary": " Metadata that describes the results of an identity provider operation. ",
"IdentityProviderSummaryList$member": null,
"RegisterIdentityProviderResponse$IdentityProviderSummary": " Metadata that describes the results of an identity provider operation. ",
"UpdateIdentityProviderSettingsResponse$IdentityProviderSummary": null

}
},
"IdentityProviderSummaryList": {

"base": null,
"refs": {
"ListIdentityProvidersResponse$IdentityProviderSummaries": " Metadata that describes the list identity providers operation. "
}
},
"InstanceSummary": {
"base": " Describes an EC2 instance providing user-based subscriptions. ",
"refs": {
"InstanceSummaryList$member": null
}
},
"InstanceSummaryList": {
"base": null,
"refs": {
"ListInstancesResponse$InstanceSummaries": " Metadata that describes the list instances operation. "
}
},
"InstanceUserSummary": {
"base": " Describes users of an EC2 instance providing user-based subscriptions. ",
"refs": {
"AssociateUserResponse$InstanceUserSummary": " Metadata that describes the associate user operation. ",
"DisassociateUserResponse$InstanceUserSummary": " Metadata that describes the associate user operation. ",

"InstanceUserSummaryList$member": null
}
},
"InstanceUserSummaryList": {
"base": null,
"refs": {
"ListUserAssociationsResponse$InstanceUserSummaries": " Metadata that describes the list user association operation. "
}
},
"InternalServerException": {
"base": " An exception occurred with the service. ",
"refs": {
}
},
"ListIdentityProvidersRequest": {
"base": null,
"refs": {
}
},
"ListIdentityProvidersResponse": {
"base": null,

"refs": {
}
},
"ListInstancesRequest": {
"base": null,
"refs": {
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"ListInstancesResponse": {
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"ListProductSubscriptionsRequest": {
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"refs": {
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"ListProductSubscriptionsResponse": {
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"refs": {
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},
"ListUserAssociationsRequest": {
"base": null,
"refs": {
}
},
"ListUserAssociationsResponse": {
"base": null,
"refs": {
}
},
"ProductUserSummary": {
"base": " The summary of the user-based subscription products for a user. ",
"refs": {
"ProductUserSummaryList$member": null,
"StartProductSubscriptionResponse$ProductUserSummary": " Metadata that describes the start product subscription operation. ",
"StopProductSubscriptionResponse$ProductUserSummary": " Metadata that describes the start product subscription operation. "
}
},
"ProductUserSummaryList": {
"base": null,
"refs": {
"ListProductSubscriptionsResponse$ProductUserSummaries": " Metadata that describes the list product subscriptions operation. "

```
    }
  },
  "RegisterIdentityProviderRequest": {
    "base": null,
    "refs": {
    }
  },
  "RegisterIdentityProviderResponse": {
    "base": null,
    "refs": {
    }
  },
  "ResourceNotFoundException":
 {
    "base": "<p>The resource couldn't be found.</p>",
    "refs": {
    }
  },
  "SecurityGroup": {
    "base": null,
    "refs": {
      "Settings$SecurityGroupId": "<p>A security group ID that allows inbound TCP port 1688 communication
between resources in your VPC and the VPC endpoint for activation servers.</p>",
      "UpdateSettings$SecurityGroupId": "<p>A security group ID that allows inbound TCP port 1688
communication between resources in your VPC and the VPC endpoints for activation servers.</p>"
    }
  },
  "ServiceQuotaExceededException": {
    "base": "<p>The request failed because a service quota is exceeded.</p>",
    "refs": {
    }
  },
  "Settings": {
    "base": "<p>The registered identity providers product related configuration settings such as the subnets to
provision VPC endpoints, and the security group ID that is associated with the VPC endpoints. The security group
should permit inbound TCP port 1688 communication
 from resources in the VPC.</p>",
    "refs": {
      "IdentityProviderSummary$Settings": "<p>An object that details the registered identity providers product
related configuration settings such as the subnets to provision VPC endpoints.</p>",
      "RegisterIdentityProviderRequest$Settings": "<p>The registered identity providers product related
configuration settings such as the subnets to provision VPC endpoints.</p>"
    }
  },
  "SettingsSubnetsList": {
    "base": null,
    "refs": {
      "Settings$Subnets": "<p>The subnets defined for the registered identity provider.</p>"
```

```
    }
  },
  "StartProductSubscriptionRequest": {
    "base": null,
    "refs": {
    }
  },
  "StartProductSubscriptionResponse": {
    "base": null,
    "refs": {
    }
  },
  "StopProductSubscriptionRequest": {
    "base": null,
    "refs": {
    }
  },
  "StopProductSubscriptionResponse": {
    "base": null,
    "refs": {
    }
  },
  "String":
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    "base": null,
    "refs": {
      "AccessDeniedException$message": null,
      "ActiveDirectoryIdentityProvider$DirectoryId": "<p>The directory ID for an Active Directory identity
provider.</p>",
      "AssociateUserRequest$Domain": "<p>The domain name of the user.</p>",
      "AssociateUserRequest$InstanceId": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
      "AssociateUserRequest$Username": "<p>The user name from the identity provider for the user.</p>",
      "ConflictException$message": null,
      "DeregisterIdentityProviderRequest$Product": "<p>The name of the user-based subscription product.</p>",
      "DisassociateUserRequest$Domain": "<p>The domain name of the user.</p>",
      "DisassociateUserRequest$InstanceId": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
      "DisassociateUserRequest$Username": "<p>The user name from the identity provider for the user.</p>",

    "Filter$Attribute": "<p>The name of an attribute to use as a filter.</p>",
      "Filter$Operation": "<p>The type of search (For example, eq, geq, leq)</p>",
      "Filter$Value": "<p>Value of the filter.</p>",
      "IdentityProviderSummary$FailureMessage": "<p>The failure message associated with an identity
provider.</p>",
      "IdentityProviderSummary$Product": "<p>The name of the user-based subscription product.</p>",
      "IdentityProviderSummary$Status": "<p>The status of an identity provider.</p>",
      "InstanceSummary$InstanceId": "<p>The ID of the EC2 instance, which provides user-based
```

subscriptions. ",
"InstanceSummary$LastStatusCheckDate": " The date of the last status check. ",
"InstanceSummary$Status": " The status of an EC2 instance resource. ",
"InstanceSummary$StatusMessage": " The status message for an EC2 instance. ",
"InstanceUserSummary$AssociationDate": " The date a user was associated with an EC2 instance. ",
"InstanceUserSummary$DisassociationDate": " The date a user was disassociated from an EC2 instance. ",
"InstanceUserSummary$Domain": " The domain name of the user. ",
"InstanceUserSummary$InstanceId": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"InstanceUserSummary$Status": " The status of a user associated with an EC2 instance. ",
"InstanceUserSummary$StatusMessage": " The status message for users of an EC2 instance. ",
"InstanceUserSummary$Username": " The user name from the identity provider for the user. ",
"InternalServerException$message": null,
"ListIdentityProvidersRequest$NextToken": " Token for the next set of results. ",
"ListIdentityProvidersResponse$NextToken": " Token for the next set of results. ",
"ListInstancesRequest$NextToken": " Token for the next set of results. ",
"ListInstancesResponse$NextToken": " Token for the next set of results. ",
"ListProductSubscriptionsRequest$NextToken": " Token for the next set of results. ",
"ListProductSubscriptionsRequest$Product": " The name of the user-based subscription product. ",
"ListProductSubscriptionsResponse$NextToken": " Token for the next set of results. ",
"ListUserAssociationsRequest$InstanceId": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"ListUserAssociationsRequest$NextToken": " Token for the next set of results. ",
"ListUserAssociationsResponse$NextToken": " Token for the next set of results. ",
"ProductUserSummary$Domain": " The domain name of the user. ",
"ProductUserSummary$Product": " The name of the user-based subscription product. ",
"ProductUserSummary$Status": " The status of a product for a user. ",
"ProductUserSummary$StatusMessage": " The status message for a product for a user. ",
"ProductUserSummary$SubscriptionEndDate": " The end date of a subscription. ",
"ProductUserSummary$SubscriptionStartDate": " The start date of a subscription. ",
"ProductUserSummary$Username": " The user name from the identity provider of the user. ",
"RegisterIdentityProviderRequest$Product": " The name of the user-based subscription product. ",
"ResourceNotFoundException$message": null,
"ServiceQuotaExceededException$message": null,
"StartProductSubscriptionRequest$Domain": " The domain name of the user. ",
"StartProductSubscriptionRequest$Product": " The name of the user-based subscription product. ",
"StartProductSubscriptionRequest$Username": " The user name from the identity provider of the user. ",
"StopProductSubscriptionRequest$Domain": " The domain name of the user. ",
"StopProductSubscriptionRequest$Product": " The name of the user-based subscription product. ",
"StopProductSubscriptionRequest$Username": " The user name from the identity provider for the user. ",
"StringList$member": null,
"ThrottlingException$message": null,

"UpdateIdentityProviderSettingsRequest$Product": " The name of the user-based subscription product. ",
"ValidationException$message": null
}
},
"StringList": {
"base": null,
"refs": {
"InstanceSummary$Products": " A list of provided user-based subscription products. "
}
},
"Subnet": {
"base": null,
"refs": {
"SettingsSubnetsList$member": null,
"Subnets$member": null
}
},
"Subnets": {
"base": null,
"refs": {
"UpdateSettings$AddSubnets": " The ID of one or more subnets in which License Manager will create a VPC endpoint for products that require connectivity to activation servers. ",
"UpdateSettings$RemoveSubnets": " The ID of one or more subnets to remove. "
}
},
"ThrottlingException": {
"base": " The request was denied because of request throttling. Retry the request. ",
"refs": {
}
},
"UpdateIdentityProviderSettingsRequest": {
"base": null,
"refs": {
}
},
"UpdateIdentityProviderSettingsResponse": {
"base": null,
"refs": {
}
},
"UpdateSettings": {
"base": " Updates the registered identity providers product related configuration settings such as the subnets to provision VPC endpoints. ",
"refs": {
"UpdateIdentityProviderSettingsRequest$UpdateSettings": " Updates the registered identity providers product related configuration settings. You can update any combination of settings in a single operation such as

the: <ul> Subnets which you want to add to provision VPC endpoints.   Subnets which you want to remove the VPC endpoints
 from.   Security group ID which permits traffic to the VPC endpoints. "
    }
  },
  "ValidationException": {
    "base": " A parameter is not valid. ",
    "refs": {
    }
  }
 }
}
{
  "version": "1.0",
  "parameters": {
    "Region": {
      "builtIn": "AWS::Region",
      "required": false,
      "documentation": "The AWS region used to dispatch the request.",
      "type": "String"
    },
    "UseDualStack": {
      "builtIn": "AWS::UseDualStack",
      "required": true,
      "default": false,
      "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
      "type": "Boolean"
    },
    "UseFIPS": {
      "builtIn": "AWS::UseFIPS",
      "required": true,
      "default": false,
      "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
      "type": "Boolean"
    },
    "Endpoint": {

    "builtIn": "SDK::Endpoint",
      "required": false,
      "documentation": "Override the endpoint used to send this request",
      "type": "String"
    }
  },
  "rules": [
    {
      "conditions": [

```
    {
      "fn": "aws.partition",
      "argv": [
        {
          "ref": "Region"
        }
      ],
      "assign": "PartitionResult"
    }
  ],
  "type": "tree",
  "rules": [
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      "conditions": [
        {
          "fn": "isSet",
          "argv": [
            {
              "ref": "Endpoint"
            }
          ]
        },
        {
          "fn": "parseURL",

         "argv": [
            {
              "ref": "Endpoint"
            }
          ],
          "assign": "url"
        }
      ],
      "type": "tree",
      "rules": [
        {
          "conditions": [
            {
              "fn": "booleanEquals",
              "argv": [
                {
                  "ref": "UseFIPS"
                },
                true
              ]
            }
          ],
          "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
```

```
            "type": "error"
          },
          {
            "conditions": [],
            "type": "tree",
            "rules": [
              {
                "conditions": [
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseDualStack"
                      },
                      true
                    ]
                  }
                ],
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                "type": "error"
              },

           {
                "conditions": [],
                "endpoint": {
                  "url": {
                    "ref": "Endpoint"
                  },
                  "properties": {},
                  "headers": {}
                },
                "type": "endpoint"
              }
            ]
          }
        ]
      },
      {
        "conditions": [
          {
            "fn": "booleanEquals",
            "argv": [
              {
                "ref": "UseFIPS"
              },
              true
            ]
```

```
},
            {
              "fn": "booleanEquals",
              "argv": [
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                  "ref": "UseDualStack"
                },
                true
              ]
            }
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          "type": "tree",
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                  "argv": [
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                    {
                      "fn": "getAttr",
                      "argv": [
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                          "ref": "PartitionResult"

},
                        "supportsFIPS"
                      ]
                    }
                  ]
                },
                {
                  "fn": "booleanEquals",
                  "argv": [
                    true,
                    {
                      "fn": "getAttr",
                      "argv": [
                        {
                          "ref": "PartitionResult"
                        },
                        "supportsDualStack"
                      ]
                    }
                  ]
                }
```

```
                ],
                    "type": "tree",
                    "rules": [
                        {
                            "conditions": [],
                            "endpoint": {
                                "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                "properties": {},
                                "headers": {}
                            },
                            "type": "endpoint"
                        }
                    ]
                },
                {
                    "conditions": [],
                    "error": "FIPS and DualStack are enabled, but this partition does not support one or both",
                    "type": "error"
                }
            ]
        },

    {
            "conditions": [
                {
                    "fn": "booleanEquals",
                    "argv": [
                        {
                            "ref": "UseFIPS"
                        },
                        true
                    ]
                }
            ],
            "type": "tree",
            "rules": [
                {
                    "conditions": [
                        {
                            "fn": "booleanEquals",
                            "argv": [
                                true,
                                {
                                    "fn": "getAttr",
                                    "argv": [
                                        {
                                            "ref": "PartitionResult"
```

```
                    },
                    "supportsFIPS"
                ]
            }
        ]
    }
],
"type": "tree",
"rules": [
    {
        "conditions": [],
        "endpoint": {
            "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
            "properties": {},
            "headers": {}
        },
        "type": "endpoint"
    }
]
},
{

"conditions": [],
        "error": "FIPS is enabled but this partition does not support FIPS",
        "type": "error"
    }
  ]
},
{
  "conditions": [
    {
        "fn": "booleanEquals",
        "argv": [
            {
                "ref": "UseDualStack"
            },
            true
        ]
    }
  ],
  "type": "tree",
  "rules": [
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
```

```
                    true,

            {
                        "fn": "getAttr",
                        "argv": [
                            {
                                "ref": "PartitionResult"
                            },
                            "supportsDualStack"
                        ]
                    }
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [],
                "endpoint": {
                    "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                    "properties": {},

        "headers": {}
                },
                "type": "endpoint"
            }
        ]
    },
    {
        "conditions": [],
        "error": "DualStack is enabled but this partition does not support DualStack",
        "type": "error"
    }
  ]
},
{
  "conditions": [],
  "endpoint": {
    "url": "https://license-manager-user-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
    "properties": {},
    "headers": {}
  },
  "type": "endpoint"
}
]
}
]
```

}
{
 "version": "2.0",
 "service": " With License Manager, you can discover and track your commercial Linux subscriptions on running Amazon EC2 instances. ",
 "operations": {
   "DeregisterSubscriptionProvider": " Remove a third-party subscription provider from the Bring Your Own License (BYOL) subscriptions registered to your account. ",
   "GetRegisteredSubscriptionProvider": " Get details for a Bring Your Own License (BYOL) subscription that's registered to your account. ",
   "GetServiceSettings": " Lists the Linux subscriptions service settings for your account. ",
   "ListLinuxSubscriptionInstances": " Lists the running Amazon EC2 instances that were discovered with commercial Linux subscriptions. ",
   "ListLinuxSubscriptions": " Lists the Linux subscriptions that have been discovered. If you have linked your organization, the returned results will include data aggregated across your accounts in Organizations. ",
   "ListRegisteredSubscriptionProviders":
 " List Bring Your Own License (BYOL) subscription registration resources for your account. ",
   "ListTagsForResource": " List the metadata tags that are assigned to the specified Amazon Web Services resource. ",
   "RegisterSubscriptionProvider": " Register the supported third-party subscription provider for your Bring Your Own License (BYOL) subscription. ",
   "TagResource": " Add metadata tags to the specified Amazon Web Services resource. ",
   "UntagResource": " Remove one or more metadata tag from the specified Amazon Web Services resource. ",
   "UpdateServiceSettings": " Updates the service settings for Linux subscriptions. "
 },
 "shapes": {
   "Boolean": {
     "base": null,
     "refs": {
       "UpdateServiceSettingsRequest$AllowUpdate": " Describes if updates are allowed to the service settings for Linux subscriptions. If you allow updates, you can aggregate Linux subscription data in more than one home Region. "
      }
   },
   "BoxInteger": {
     "base": null,
     "refs": {
       "ListLinuxSubscriptionInstancesRequest$MaxResults": " The maximum items to return in a request. ",
       "ListLinuxSubscriptionsRequest$MaxResults": " The maximum items to return in a request. "
     }
   },
   "BoxLong": {
     "base": null,
     "refs": {
       "Subscription$InstanceCount": " The total amount of running instances using this subscription. "
     }
   },

"DeregisterSubscriptionProviderRequest": {
"base": null,
"refs": {
}
},
"DeregisterSubscriptionProviderResponse": {
"base": null,
"refs": {
}
},
"Filter": {
"base": " A filter object that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria. ",
"refs": {
"FilterList$member": null
}
},
"FilterList": {
"base": null,
"refs": {

"ListLinuxSubscriptionInstancesRequest$Filters": " An array of structures that you can use to filter the results by your specified criteria. For example, you can specify <code>Region</code> in the <code>Name</code>, with the <code>contains</code> operator to list all subscriptions that match a partial string in the <code>Value</code>, such as <code>us-west</code>. For each filter, you can specify one of the following values for the <code>Name</code> key to streamline results: <ul> <code>AccountID</code>   <code>AmiID</code>   <code>DualSubscription</code>   <code>InstanceID</code>   <code>InstanceType</code>   <code>ProductCode</code>   <code>Region</code>   <code>Status</code>   <code>UsageOperation</code>   For each filter, you can use one of the following <code>Operator</code> values to define the behavior
of the filter: <ul> <code>contains</code>   <code>equals</code>   <code>Notequal</code> ",
"ListLinuxSubscriptionsRequest$Filters": " An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify. For example, you can filter by the name of <code>Subscription</code> with an optional operator to see subscriptions that match, partially match, or don't match a certain subscription's name. The valid names for this filter are: <ul> <code>Subscription</code>   The valid Operators for this filter are: <ul> <code>contains</code>   <code>equals</code>   <code>Notequal</code> "
}
},
"GetRegisteredSubscriptionProviderRequest": {
"base": null,
"refs": {
}
},
"GetRegisteredSubscriptionProviderResponse": {

"base": null,
"refs": {
}
},
"GetServiceSettingsRequest": {
"base": null,
"refs": {
}
},
"GetServiceSettingsResponse": {
"base": null,
"refs": {
}
},
"Instance": {
"base": " Details discovered information about a running instance using Linux subscriptions. ",
"refs": {
"InstanceList$member": null
}
},
"InstanceList": {
"base": null,
"refs": {
"ListLinuxSubscriptionInstancesResponse$Instances": " An array that contains instance objects. "
}
},
"InternalServerException": {
"base": " An exception occurred with the service. ",
"refs": {
}
},
"LinuxSubscriptionsDiscovery": {
"base": null,
"refs": {
"GetServiceSettingsResponse$LinuxSubscriptionsDiscovery": " Lists if discovery has been enabled for Linux subscriptions. ",
"UpdateServiceSettingsRequest$LinuxSubscriptionsDiscovery": " Describes if the discovery of Linux subscriptions is enabled. ",
"UpdateServiceSettingsResponse$LinuxSubscriptionsDiscovery": " Lists if discovery has been enabled for Linux subscriptions. "
}
},
"LinuxSubscriptionsDiscoverySettings": {
"base": " Lists the settings defined for discovering Linux subscriptions. ",
"refs": {
"GetServiceSettingsResponse$LinuxSubscriptionsDiscoverySettings": " Lists the settings defined for Linux subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data will be aggregated from. ",

"UpdateServiceSettingsRequest$LinuxSubscriptionsDiscoverySettings": " The settings defined for Linux subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data will be aggregated from. ",
"UpdateServiceSettingsResponse$LinuxSubscriptionsDiscoverySettings": " The settings defined for Linux subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data will be aggregated from. "
}
},
"ListLinuxSubscriptionInstancesRequest": {
"base": " NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in request increases. ",
"refs": {
}
},
"ListLinuxSubscriptionInstancesRequestNextTokenString": {
"base": null,
"refs": {
"ListLinuxSubscriptionInstancesRequest$NextToken": " A token to specify where to start paginating. This is the nextToken from a previously truncated response. "
}
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"ListLinuxSubscriptionInstancesResponse": {
"base": null,
"refs": {
}
},
"ListLinuxSubscriptionsRequest": {
"base": " NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in request increases. ",
"refs": {
}
},
"ListLinuxSubscriptionsRequestNextTokenString":
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"base": null,
"refs": {
"ListLinuxSubscriptionsRequest$NextToken": " A token to specify where to start paginating. This is the nextToken from a previously truncated response. "
}
},
"ListLinuxSubscriptionsResponse": {
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"refs": {
}
},
"ListRegisteredSubscriptionProvidersRequest": {
"base": null,
"refs": {

}
},
"ListRegisteredSubscriptionProvidersRequestMaxResultsInteger": {
"base": null,
"refs": {
"ListRegisteredSubscriptionProvidersRequest$MaxResults": " The maximum items to return in a request. "
}
},
"ListRegisteredSubscriptionProvidersResponse": {
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"refs": {
}
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"ListTagsForResourceRequest": {
"base": null,
"refs": {
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},
"ListTagsForResourceResponse": {
"base": null,
"refs": {
}
},
"Operator": {
"base": null,
"refs":
{
"Filter$Operator": " An operator for filtering results. "
}
},
"OrganizationIntegration": {
"base": null,
"refs": {
"LinuxSubscriptionsDiscoverySettings$OrganizationIntegration": " Details if you have enabled resource discovery across your accounts in Organizations. "
}
},
"ProductCodeList": {
"base": null,
"refs": {
"Instance$ProductCode": " The product code for the instance. For more information, see Usage operation values in the License Manager User Guide . "
}
},
"RegisterSubscriptionProviderRequest": {
"base": null,

"refs": {
}
},
"RegisterSubscriptionProviderResponse": {
"base": null,
"refs": {
}
},
"RegisteredSubscriptionProvider": {
"base": " A third-party provider for operating system
(OS) platform software and license subscriptions, such as Red Hat. When you register a third-party Linux subscription provider, License Manager can get subscription data from the registered provider. ",
"refs": {
"RegisteredSubscriptionProviderList$member": null
}
},
"RegisteredSubscriptionProviderList": {
"base": null,
"refs": {
"ListRegisteredSubscriptionProvidersResponse$RegisteredSubscriptionProviders": " The list of BYOL registration resources that fit the criteria you specified in the request. "
}
},
"ResourceNotFoundException": {
"base": " Unable to find the requested Amazon Web Services resource. ",
"refs": {
}
},
"SecretArn": {
"base": null,
"refs": {
"GetRegisteredSubscriptionProviderResponse$SecretArn": " The Amazon Resource Name (ARN) of the third-party access secret stored in Secrets Manager for the BYOL registration resource specified in the request. ",
"RegisterSubscriptionProviderRequest$SecretArn": " The Amazon Resource Name (ARN) of the secret where you've stored your subscription provider's access token. For RHEL subscriptions managed through the Red Hat Subscription Manager (RHSM), the secret contains your Red Hat Offline token. ",
"RegisteredSubscriptionProvider$SecretArn": " The Amazon Resource Name (ARN) of the Secrets Manager secret that stores your registered Linux subscription provider access token. For RHEL account subscriptions, this is the offline token. "
}
},
"Status": {
"base": null,
"refs": {
"GetServiceSettingsResponse$Status": " Indicates the status of Linux subscriptions settings being applied. ",
"UpdateServiceSettingsResponse$Status": " Indicates the status of Linux subscriptions settings being

applied. "
    }
  },
  "String": {
    "base": null,
    "refs": {
      "Filter$Name": " The type of name to filter by. ",
      "GetRegisteredSubscriptionProviderResponse$LastSuccessfulDataRetrievalTime": " The timestamp from the last time License Manager retrieved subscription details from your registered third-party Linux subscription provider. ",
      "GetRegisteredSubscriptionProviderResponse$SubscriptionProviderStatusMessage": " The detailed message from your subscription provider token status. ",
      "Instance$AccountID": " The account ID which owns the instance. ",
      "Instance$AmiId": " The AMI ID used to launch the instance. ",
      "Instance$DualSubscription": " Indicates that you have two different license subscriptions for the same software on your instance. ",
      "Instance$InstanceID": " The instance ID of the resource. ",
      "Instance$InstanceType": " The instance type of the resource. ",
      "Instance$LastUpdatedTime": " The time in which the last discovery updated the instance details. ",
      "Instance$OsVersion":
 " The operating system software version that runs on your instance. ",
      "Instance$Region": " The Region the instance is running in. ",
      "Instance$RegisteredWithSubscriptionProvider": " Indicates that your instance uses a BYOL license subscription from a third-party Linux subscription provider that you've registered with License Manager. ",
      "Instance$Status": " The status of the instance. ",
      "Instance$SubscriptionName": " The name of the license subscription that the instance uses. ",
      "Instance$SubscriptionProviderCreateTime": " The timestamp when you registered the third-party Linux subscription provider for the subscription that the instance uses. ",
      "Instance$SubscriptionProviderUpdateTime": " The timestamp from the last time that the instance synced with the registered third-party Linux subscription provider. ",
      "Instance$UsageOperation": " The usage operation of the instance. For more information,
 see For more information, see Usage operation values in the License Manager User
Guide. ",
      "InternalServerException$message": null,
      "ListLinuxSubscriptionInstancesResponse$NextToken": " The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. ",
      "ListLinuxSubscriptionsResponse$NextToken": " The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. ",
      "ListRegisteredSubscriptionProvidersRequest$NextToken": " A token to specify where to start paginating. This is the nextToken from a
 previously truncated response. ",
      "ListRegisteredSubscriptionProvidersResponse$NextToken": " The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. ",
      "ProductCodeList$member": null,

"RegisterSubscriptionProviderResponse$SubscriptionProviderArn": " The Amazon Resource Name (ARN) of the Linux subscription provider resource that you registered. ",
"RegisteredSubscriptionProvider$LastSuccessfulDataRetrievalTime": " The timestamp from the last time that License Manager accessed third-party subscription data for your account from your registered Linux subscription provider. ",
"RegisteredSubscriptionProvider$SubscriptionProviderStatusMessage": " A detailed message that's associated with your BYOL subscription provider token status. ",
"ResourceNotFoundException$message":
null,
"StringMap$key": null,
"StringMap$value": null,
"Subscription$Name": " The name of the subscription. ",
"Subscription$Type": " The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS. ",
"TagKeyList$member": null,
"Tags$key": null,
"Tags$value": null,
"ThrottlingException$message": null,
"ValidationException$message": null
}
},
"StringList": {
"base": null,
"refs": {
"Filter$Values": " One or more values for the name to filter by. ",
"GetServiceSettingsResponse$HomeRegions": " The Region in which License Manager displays the aggregated data for Linux subscriptions. ",
"LinuxSubscriptionsDiscoverySettings$SourceRegions":
" The Regions in which to discover data for Linux subscriptions. ",
"UpdateServiceSettingsResponse$HomeRegions": " The Region in which License Manager displays the aggregated data for Linux subscriptions. "
}
},
"StringListMemberString": {
"base": null,
"refs": {
"StringList$member": null
}
},
"StringMap": {
"base": null,
"refs": {
"GetServiceSettingsResponse$StatusMessage": " A message which details the Linux subscriptions service settings current status. ",
"UpdateServiceSettingsResponse$StatusMessage": " A message which details the Linux subscriptions service settings current status. "

```
    }
  },
  "Subscription": {
    "base": "<p>An object which details a discovered Linux subscription.</p>",
    "refs": {
      "SubscriptionList$member": null
    }
  },
  "SubscriptionList": {
    "base": null,
    "refs": {
      "ListLinuxSubscriptionsResponse$Subscriptions":
 "<p>An array that contains subscription objects.</p>"
    }
  },
  "SubscriptionProviderArn": {
    "base": null,
    "refs": {
      "DeregisterSubscriptionProviderRequest$SubscriptionProviderArn": "<p>The Amazon Resource Name (ARN) of the subscription provider resource to deregister.</p>",
      "GetRegisteredSubscriptionProviderRequest$SubscriptionProviderArn": "<p>The Amazon Resource Name (ARN) of the BYOL registration resource to get details for.</p>",
      "GetRegisteredSubscriptionProviderResponse$SubscriptionProviderArn": "<p>The Amazon Resource Name (ARN) for the BYOL registration resource specified in the request.</p>",
      "ListTagsForResourceRequest$resourceArn": "<p>The Amazon Resource Name (ARN) of the resource for which to list metadata tags.</p>",
      "RegisteredSubscriptionProvider$SubscriptionProviderArn": "<p>The Amazon Resource Name (ARN) of the Linux subscription provider resource that you registered.</p>",
      "TagResourceRequest$resourceArn": "<p>The Amazon Resource Name (ARN) of the Amazon Web Services resource to which to add the specified metadata tags.</p>",
      "UntagResourceRequest$resourceArn": "<p>The Amazon Resource Name (ARN) of the Amazon Web Services resource to remove the metadata tags from.</p>"
    }
  },
  "SubscriptionProviderSource": {
    "base": null,
    "refs": {
      "GetRegisteredSubscriptionProviderResponse$SubscriptionProviderSource": "<p>The subscription provider for the BYOL registration resource specified in the request.</p>",
      "RegisterSubscriptionProviderRequest$SubscriptionProviderSource": "<p>The supported Linux subscription provider to register.</p>",
      "RegisterSubscriptionProviderResponse$SubscriptionProviderSource": "<p>The Linux subscription provider that you registered.</p>",
      "RegisteredSubscriptionProvider$SubscriptionProviderSource": "<p>A supported third-party Linux subscription provider. License
 Manager currently supports Red Hat subscriptions.</p>",
      "SubscriptionProviderSourceList$member": null
    }
```

},
"SubscriptionProviderSourceList": {
"base": null,
"refs": {
"ListRegisteredSubscriptionProvidersRequest$SubscriptionProviderSources": " To filter your results, specify which subscription providers to return in the list. "
}
},
"SubscriptionProviderStatus": {
"base": null,
"refs": {
"GetRegisteredSubscriptionProviderResponse$SubscriptionProviderStatus": " The status of the Linux subscription provider access token from the last successful subscription data request. ",
"RegisterSubscriptionProviderResponse$SubscriptionProviderStatus": " Indicates the status of the registration action for the Linux subscription provider that you requested. ",
"RegisteredSubscriptionProvider$SubscriptionProviderStatus": " Indicates the status of your registered Linux subscription provider access
token from the last time License Manager retrieved subscription data. For RHEL account subscriptions, this is the status of the offline token. "
}
},
"TagKeyList": {
"base": null,
"refs": {
"UntagResourceRequest$tagKeys": " A list of metadata tag keys to remove from the requested resource. "
}
},
"TagResourceRequest": {
"base": null,
"refs": {
}
},
"TagResourceResponse": {
"base": null,
"refs": {
}
},
"Tags": {
"base": null,
"refs": {
"ListTagsForResourceResponse$tags": " The metadata tags for the requested resource. ",
"RegisterSubscriptionProviderRequest$Tags": " The metadata tags to assign to your registered Linux subscription provider resource. ",
"TagResourceRequest$tags": " The metadata tags to assign to the Amazon Web Services resource. Tags are formatted as key value pairs. "
}
},

"ThrottlingException": {
"base": " The request was denied due to request throttling. ",
"refs": {
}
},
"UntagResourceRequest": {
"base": null,
"refs": {
}
},
"UntagResourceResponse": {
"base": null,
"refs": {
}
},
"UpdateServiceSettingsRequest": {
"base": null,
"refs": {
}
},
"UpdateServiceSettingsResponse": {
"base": null,
"refs": {
}
},
"ValidationException": {
"base": " The provided input is not valid. Try your request again. ",
"refs": {
}
}
}
}

AWS SDK for Go

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{
"testCases": [
{
"documentation": "For region ap-south-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.ap-south-1.api.aws"
}
},
"params": {
"UseFIPS": true,
"Region": "ap-south-1",
"UseDualStack": true

```
        }
    },
    {
        "documentation": "For region ap-south-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-user-subscriptions-fips.ap-south-1.amazonaws.com"
            }
        },
        "params": {
            "UseFIPS": true,
            "Region": "ap-south-1",
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region ap-south-1 with FIPS disabled
and DualStack enabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-user-subscriptions.ap-south-1.api.aws"
            }
        },
        "params": {
            "UseFIPS": false,
            "Region": "ap-south-1",
            "UseDualStack": true
        }
    },
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        "documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-user-subscriptions.ap-south-1.amazonaws.com"
            }
        },
        "params": {
            "UseFIPS": false,
            "Region": "ap-south-1",
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region eu-south-1 with FIPS enabled and DualStack enabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-user-subscriptions-fips.eu-south-1.api.aws"
```

```
        }
    },
    "params": {
        "UseFIPS": true,
        "Region": "eu-south-1",
        "UseDualStack": true
    }
},
{
    "documentation": "For region eu-south-1 with FIPS enabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-user-subscriptions-fips.eu-south-1.amazonaws.com"
        }
    },
    "params": {
        "UseFIPS": true,
        "Region": "eu-south-1",
        "UseDualStack": false
    }
},
{
    "documentation": "For region eu-south-1 with FIPS disabled and DualStack enabled",
    "expect": {
        "endpoint": {
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        }
    },

   "params": {
        "UseFIPS": false,
        "Region": "eu-south-1",
        "UseDualStack": true
    }
},
{
    "documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-user-subscriptions.eu-south-1.amazonaws.com"
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    },
    "params": {
        "UseFIPS": false,
        "Region": "eu-south-1",
        "UseDualStack": false
    }
},
```

{
"documentation": "For region ca-central-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.ca-central-1.api.aws"
}
},
"params": {
"UseFIPS": true,
"Region": "ca-central-1",

"UseDualStack": true
}
},
{
"documentation": "For region ca-central-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.ca-central-1.amazonaws.com"
}
},
"params": {
"UseFIPS": true,
"Region": "ca-central-1",
"UseDualStack": false
}
},
{
"documentation": "For region ca-central-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.ca-central-1.api.aws"
}
},
"params": {
"UseFIPS": false,
"Region": "ca-central-1",
"UseDualStack": true
}
},
{
"documentation":
"For region ca-central-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.ca-central-1.amazonaws.com"
}
},

```
      "params": {
        "UseFIPS": false,
        "Region": "ca-central-1",
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region eu-central-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions-fips.eu-central-1.api.aws"
        }
      },
      "params": {
        "UseFIPS": true,
        "Region": "eu-central-1",
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region eu-central-1 with FIPS enabled and DualStack disabled",
      "expect":
{
        "endpoint": {
          "url": "https://license-manager-user-subscriptions-fips.eu-central-1.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": true,
        "Region": "eu-central-1",
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region eu-central-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions.eu-central-1.api.aws"
        }
      },
      "params": {
        "UseFIPS": false,
        "Region": "eu-central-1",
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
```

"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.eu-central-1.amazonaws.com"
}
},
"params": {
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    }
  },
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          "Region": "us-east-2",
          "UseDualStack": false
        }
      },
      {
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          }
        },
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          "Region": "us-east-1",
          "UseDualStack": false,
          "Endpoint": "https://example.com"
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"jsonVersion":"1.1",
"protocol":"json",
"serviceFullName":"AWS License Manager",
"serviceId":"License Manager",
"signatureVersion":"v4",
"targetPrefix":"AWSLicenseManager",
"uid":"license-manager-2018-08-01"
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"input":{"shape":"AcceptGrantRequest"},
"output":{"shape":"AcceptGrantResponse"},
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{"shape":"AccessDeniedException"},
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    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
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  "output":{"shape":"CreateTokenResponse"},
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    {"shape":"RateLimitExceededException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"ResourceNotFoundException"},
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    "output":{"shape":"DeleteGrantResponse"},
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{"shape":"AccessDeniedException"},
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  "output":{"shape":"GetLicenseConfigurationResponse"},
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{"shape":"AccessDeniedException"},
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{"shape":"AccessDeniedException"},
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"output":{"shape":"ListLicenseConfigurationsResponse"},
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    {"shape":"ServerInternalException"}
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]
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{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ServerInternalException"}
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"requestUri":"/"

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  "output":{"shape":"ListUsageForLicenseConfigurationResponse"},
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  ]
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  "output":{"shape":"TagResourceResponse"},
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    {"shape":"RateLimitExceededException"}
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    {"shape":"ServerInternalException"},
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    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
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    "requestUri":"/"
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  "output":{"shape":"UpdateLicenseConfigurationResponse"},
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    {"shape":"ResourceLimitExceededException"}
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},
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  "input":{"shape":"UpdateLicenseManagerReportGeneratorRequest"},
  "output":{"shape":"UpdateLicenseManagerReportGeneratorResponse"},
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    {"shape":"AccessDeniedException"},
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    {"shape":"ResourceLimitExceededException"}
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    "output":{"shape":"UpdateServiceSettingsResponse"},
    "errors":[
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  }
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    }
  },
  "AcceptGrantResponse":{
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"members":{
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"Status":{"shape":"GrantStatus"},
"Version":{"shape":"String"}
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"DISTRIBUTED_GRANTS_ONLY",
"ALL_GRANTS_PERMITTED_BY_ISSUER"
]
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"CreateGrant",
"CheckoutLicense",
"CheckoutBorrowLicense",
"CheckInLicense",
"ExtendConsumptionLicense",
"ListPurchasedLicenses",
"CreateToken"
]
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"ArnList":{
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  "exception":true
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"AutomatedDiscoveryInformation":{
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"BorrowConfiguration":{
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  "members":{
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    "MaxTimeToLiveInMinutes":{"shape":"BoxInteger"}
   }
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"BoxBoolean":{"type":"boolean"},
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"CheckInLicenseRequest":{
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  "required":["LicenseConsumptionToken"],
  "members":{
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    "Beneficiary":{"shape":"String"}
  }
},
"CheckInLicenseResponse":{
  "type":"structure",
  "members":{
  }
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"CheckoutBorrowLicenseRequest":{
  "type":"structure",
  "required":[
    "LicenseArn",
    "Entitlements",
    "DigitalSignatureMethod",
    "ClientToken"

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    ],
    "members":{
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      "Entitlements":{"shape":"EntitlementDataList"},
      "DigitalSignatureMethod":{"shape":"DigitalSignatureMethod"},
      "NodeId":{"shape":"String"},
      "CheckoutMetadata":{"shape":"MetadataList"},
      "ClientToken":{"shape":"ClientToken"}
    }
  },

  "CheckoutBorrowLicenseResponse":{
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    "members":{
      "LicenseArn":{"shape":"Arn"},
      "LicenseConsumptionToken":{"shape":"String"},
      "EntitlementsAllowed":{"shape":"EntitlementDataList"},
      "NodeId":{"shape":"String"},
      "SignedToken":{"shape":"SignedToken"},
      "IssuedAt":{"shape":"ISO8601DateTime"},
      "Expiration":{"shape":"ISO8601DateTime"},
      "CheckoutMetadata":{"shape":"MetadataList"}
    }
  },
  "CheckoutLicenseRequest":{
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      "ProductSKU",
      "CheckoutType",
      "KeyFingerprint",
      "Entitlements",
      "ClientToken"
    ],
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      "CheckoutType":{"shape":"CheckoutType"},
      "KeyFingerprint":{"shape":"String"},
      "Entitlements":{"shape":"EntitlementDataList"},
      "ClientToken":{"shape":"ClientToken"},
      "Beneficiary":{"shape":"String"},
      "NodeId":{"shape":"String"}
     }
  },
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"LicenseArn":{"shape":"String"}
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"PERPETUAL"
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"ClientToken":{
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"exception":true
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"ConsumedLicenseSummary":{
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"ConsumedLicenses":{"shape":"BoxLong"}
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"ConsumedLicenseSummaryList":{
"type":"list",
"member":{"shape":"ConsumedLicenseSummary"}
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"ConsumptionConfiguration":{
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"members":{
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"ProvisionalConfiguration":{"shape":"ProvisionalConfiguration"},

"BorrowConfiguration":{"shape":"BorrowConfiguration"}
}
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"CreateGrantRequest":{
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"GrantName",
"LicenseArn",
"Principals",
"HomeRegion",
"AllowedOperations"
],
"members":{
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"GrantName":{"shape":"String"},
"LicenseArn":{"shape":"Arn"},
"Principals":{"shape":"PrincipalArnList"},
"HomeRegion":{"shape":"String"},
"AllowedOperations":{"shape":"AllowedOperationList"}
}
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"CreateGrantResponse":{
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"members":{
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"Status":{"shape":"GrantStatus"},
"Version":{"shape":"String"}
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},
"CreateGrantVersionRequest":{
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"required":[
"ClientToken",
"GrantArn"
],
"members":{
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"GrantArn":{"shape":"Arn"},
"GrantName":{"shape":"String"},
"AllowedOperations":{"shape":"AllowedOperationList"},
"Status":{"shape":"GrantStatus"},
"StatusReason":{"shape":"StatusReasonMessage"},
"SourceVersion":{"shape":"String"},
"Options":{"shape":"Options"}
}
},
"CreateGrantVersionResponse":{

"type":"structure",
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"Status":{"shape":"GrantStatus"},
"Version":{"shape":"String"}
}
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"CreateLicenseConfigurationRequest":{
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"required":[
"Name",
"LicenseCountingType"
],
"members":{
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"Description":{"shape":"String"},
"LicenseCountingType":{"shape":"LicenseCountingType"},
"LicenseCount":{"shape":"BoxLong"},
"LicenseCountHardLimit":{"shape":"BoxBoolean"},
"LicenseRules":{"shape":"StringList"},
"Tags":{"shape":"TagList"},
"DisassociateWhenNotFound":{"shape":"BoxBoolean"},
"ProductInformationList":{"shape":"ProductInformationList"}
}
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"CreateLicenseConfigurationResponse":{
"type":"structure",
"members":{
"LicenseConfigurationArn":{"shape":"String"}
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},
"CreateLicenseConversionTaskForResourceRequest":{
"type":"structure",
"required":[
"ResourceArn",
"SourceLicenseContext",
"DestinationLicenseContext"
],
"members":{
"ResourceArn":{"shape":"Arn"},
"SourceLicenseContext":{"shape":"LicenseConversionContext"},
"DestinationLicenseContext":{"shape":"LicenseConversionContext"}
}
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"CreateLicenseConversionTaskForResourceResponse":{
"type":"structure",
"members":{
"LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"}

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  }
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"CreateLicenseManagerReportGeneratorRequest":{
  "type":"structure",
  "required":[
    "ReportGeneratorName",
    "Type",
    "ReportContext",
    "ReportFrequency",
    "ClientToken"
  ],
  "members":{
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    "Type":{"shape":"ReportTypeList"},
    "ReportContext":{"shape":"ReportContext"},
    "ReportFrequency":{"shape":"ReportFrequency"},
    "ClientToken":{"shape":"ClientRequestToken"},
    "Description":{"shape":"String"},
    "Tags":{"shape":"TagList"}
  }
},
"CreateLicenseManagerReportGeneratorResponse":{
   "type":"structure",
  "members":{
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  }
},
"CreateLicenseRequest":{
  "type":"structure",
  "required":[
    "LicenseName",
    "ProductName",
    "ProductSKU",
    "Issuer",
    "HomeRegion",
    "Validity",
    "Entitlements",
    "Beneficiary",
    "ConsumptionConfiguration",
    "ClientToken"
  ],
  "members":{
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    "ProductName":{"shape":"String"},
    "ProductSKU":{"shape":"String"},
    "Issuer":{"shape":"Issuer"},
    "HomeRegion":{"shape":"String"},
    "Validity":{"shape":"DatetimeRange"},
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"Entitlements":{"shape":"EntitlementList"},
"Beneficiary":{"shape":"String"},
"ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
"LicenseMetadata":{"shape":"MetadataList"},
"ClientToken":{"shape":"ClientToken"}

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"CreateLicenseResponse":{
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"Status":{"shape":"LicenseStatus"},
"Version":{"shape":"String"}
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},
"CreateLicenseVersionRequest":{
"type":"structure",
"required":[
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"LicenseName",
"ProductName",
"Issuer",
"HomeRegion",
"Validity",
"Entitlements",
"ConsumptionConfiguration",
"Status",
"ClientToken"
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"members":{
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"LicenseName":{"shape":"String"},
"ProductName":{"shape":"String"},
"Issuer":{"shape":"Issuer"},
"HomeRegion":{"shape":"String"},
"Validity":{"shape":"DatetimeRange"},
"LicenseMetadata":{"shape":"MetadataList"},
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"ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
"Status":{"shape":"LicenseStatus"},
"ClientToken":{"shape":"ClientToken"},
"SourceVersion":{"shape":"String"}
}
},
"CreateLicenseVersionResponse":{
"type":"structure",
"members":{

"LicenseArn":{"shape":"Arn"},
"Version":{"shape":"String"},
"Status":{"shape":"LicenseStatus"}
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"CreateTokenRequest":{
"type":"structure",
"required":[
"LicenseArn",
"ClientToken"
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"members":{
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"RoleArns":{"shape":"ArnList"},
"ExpirationInDays":{"shape":"Integer"},
"TokenProperties":{"shape":"MaxSize3StringList"},
"ClientToken":{"shape":"ClientToken"}
}
},
"CreateTokenResponse":{
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"TokenType":{"shape":"TokenType"},
"Token":{"shape":"TokenString"}
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"DatetimeRange":{

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"End":{"shape":"ISO8601DateTime"}
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"DeleteGrantRequest":{
"type":"structure",
"required":[
"GrantArn",
"Version"
],
"members":{
"GrantArn":{"shape":"Arn"},
"StatusReason":{"shape":"StatusReasonMessage"},
"Version":{"shape":"String"}
}

},
"DeleteGrantResponse":{
  "type":"structure",
  "members":{
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    "Status":{"shape":"GrantStatus"},
    "Version":{"shape":"String"}
  }
},
"DeleteLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
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  }
},
"DeleteLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
  }
},
"DeleteLicenseManagerReportGeneratorRequest":{
   "type":"structure",
  "required":["LicenseManagerReportGeneratorArn"],
  "members":{
    "LicenseManagerReportGeneratorArn":{"shape":"String"}
  }
},
"DeleteLicenseManagerReportGeneratorResponse":{
  "type":"structure",
  "members":{
  }
},
"DeleteLicenseRequest":{
  "type":"structure",
  "required":[
    "LicenseArn",
    "SourceVersion"
  ],
  "members":{
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    "SourceVersion":{"shape":"String"}
  }
},
"DeleteLicenseResponse":{
  "type":"structure",
  "members":{
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    "DeletionDate":{"shape":"ISO8601DateTime"}
  }
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"DeleteTokenRequest":{
  "type":"structure",
  "required":["TokenId"],
  "members":{
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  }
},
"DeleteTokenResponse":{
  "type":"structure",
  "members":{
  }
},
"DigitalSignatureMethod":{

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  "enum":["JWT_PS384"]
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"Entitlement":{
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  "required":[
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    "Unit"
  ],
  "members":{
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    "Value":{"shape":"String"},
    "MaxCount":{"shape":"Long"},
    "Overage":{"shape":"BoxBoolean"},
    "Unit":{"shape":"EntitlementUnit"},
    "AllowCheckIn":{"shape":"BoxBoolean"}
  }
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"EntitlementData":{
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  "required":[
    "Name",
    "Unit"
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  "members":{
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    "Value":{"shape":"String"},
    "Unit":{"shape":"EntitlementDataUnit"}
  }
},
"EntitlementDataList":{
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    "Microseconds",
    "Milliseconds",
    "Bytes",
    "Kilobytes",

  "Megabytes",
    "Gigabytes",
    "Terabytes",
    "Bits",
    "Kilobits",
    "Megabits",
    "Gigabits",
    "Terabits",
    "Percent",
    "Bytes/Second",
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    "Megabytes/Second",
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    "Terabytes/Second",
    "Bits/Second",
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    "Megabits/Second",
    "Gigabits/Second",
    "Terabits/Second",
    "Count/Second"
  ]
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"EntitlementList":{
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  "member":{"shape":"Entitlement"}
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  "exception":true
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"EntitlementUnit":{
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"Gigabytes",
"Terabytes",

"Bits",
"Kilobits",
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"Gigabits",
"Terabits",
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"Count/Second"
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"EntitlementUsage":{
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"ConsumedValue",
"Unit"
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"members":{
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"ConsumedValue":{"shape":"String"},
"MaxCount":{"shape":"String"},
"Unit":{"shape":"EntitlementDataUnit"}
}
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"EntitlementUsageList":{
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  "required":["LicenseConsumptionToken"],
  "members":{
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     "DryRun":{"shape":"Boolean"}
  }
},
"ExtendLicenseConsumptionResponse":{
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  "members":{
    "LicenseConsumptionToken":{"shape":"String"},
    "Expiration":{"shape":"ISO8601DateTime"}
  }
},
"FailedDependencyException":{
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  "members":{
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    "ErrorCode":{"shape":"String"}
  },
  "exception":true
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"Filter":{
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  "members":{
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    "Values":{"shape":"FilterValues"}
  }
},
"FilterLimitExceededException":{
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  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
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"FilterList":{
  "type":"list",
  "member":{"shape":"Filter"}
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"FilterName":{"type":"string"},
"FilterValue":{"type":"string"},
"FilterValues":{
  "type":"list",
  "member":{"shape":"FilterValue"}
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"Filters":{
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"member":{"shape":"Filter"}
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"GetAccessTokenRequest":{
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"members":{
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"TokenProperties":{"shape":"MaxSize3StringList"}
}
},
"GetAccessTokenResponse":{
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"members":{
"AccessToken":{"shape":"TokenString"}
}
},
"GetGrantRequest":{
"type":"structure",
"required":["GrantArn"],
"members":{
"GrantArn":{"shape":"Arn"},
"Version":{"shape":"String"}
}
},
"GetGrantResponse":{
"type":"structure",
"members":{
"Grant":{"shape":"Grant"}
}
},
"GetLicenseConfigurationRequest":{
"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{
"LicenseConfigurationArn":{"shape":"String"}
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},
"GetLicenseConfigurationResponse":{
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"members":{
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"LicenseConfigurationArn":{"shape":"String"},
"Name":{"shape":"String"},
"Description":{"shape":"String"},
"LicenseCountingType":{"shape":"LicenseCountingType"},

"LicenseRules":{"shape":"StringList"},
"LicenseCount":{"shape":"BoxLong"},
"LicenseCountHardLimit":{"shape":"BoxBoolean"},
"ConsumedLicenses":{"shape":"BoxLong"},
"Status":{"shape":"String"},
"OwnerAccountId":{"shape":"String"},
"ConsumedLicenseSummaryList":{"shape":"ConsumedLicenseSummaryList"},
"ManagedResourceSummaryList":{"shape":"ManagedResourceSummaryList"},
"Tags":{"shape":"TagList"},
"ProductInformationList":{"shape":"ProductInformationList"},
"AutomatedDiscoveryInformation":{"shape":"AutomatedDiscoveryInformation"},
"DisassociateWhenNotFound":{"shape":"BoxBoolean"}
}
},
"GetLicenseConversionTaskRequest":{
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"members":{
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}
},
"GetLicenseConversionTaskResponse":{
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"members":{
"LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"},
"ResourceArn":{"shape":"String"},
"SourceLicenseContext":{"shape":"LicenseConversionContext"},
"DestinationLicenseContext":{"shape":"LicenseConversionContext"},
"StatusMessage":{"shape":"String"},
"Status":{"shape":"LicenseConversionTaskStatus"},
"StartTime":{"shape":"DateTime"},
"LicenseConversionTime":{"shape":"DateTime"},
"EndTime":{"shape":"DateTime"}
}
},
"GetLicenseManagerReportGeneratorRequest":{
"type":"structure",
"required":["LicenseManagerReportGeneratorArn"],
"members":{
"LicenseManagerReportGeneratorArn":{"shape":"String"}
}
},
"GetLicenseManagerReportGeneratorResponse":{
"type":"structure",
"members":{
"ReportGenerator":{"shape":"ReportGenerator"}
}
},

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  "required":["LicenseArn"],
  "members":{
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    "Version":{"shape":"String"}
  }
},
"GetLicenseResponse":{
  "type":"structure",
  "members":{
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  }
},
"GetLicenseUsageRequest":{
  "type":"structure",
  "required":["LicenseArn"],
  "members":{
    "LicenseArn":{"shape":"Arn"}
  }
},
"GetLicenseUsageResponse":{
  "type":"structure",
  "members":{
    "LicenseUsage":{"shape":"LicenseUsage"}
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"GetServiceSettingsRequest":{
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  "members":{
  }
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"GetServiceSettingsResponse":{
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  "members":{
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     "SnsTopicArn":{"shape":"String"},
    "OrganizationConfiguration":{"shape":"OrganizationConfiguration"},
    "EnableCrossAccountsDiscovery":{"shape":"BoxBoolean"},
    "LicenseManagerResourceShareArn":{"shape":"String"}
  }
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"Grant":{
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  "required":[
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    "GrantName",
    "ParentArn",

"LicenseArn",
"GranteePrincipalArn",
"HomeRegion",
"GrantStatus",
"Version",
"GrantedOperations"
],
"members":{
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"GrantName":{"shape":"String"},
"ParentArn":{"shape":"Arn"},
"LicenseArn":{"shape":"Arn"},
"GranteePrincipalArn":{"shape":"Arn"},
"HomeRegion":{"shape":"String"},
"GrantStatus":{"shape":"GrantStatus"},
"StatusReason":{"shape":"StatusReasonMessage"},
"Version":{"shape":"String"},
"GrantedOperations":{"shape":"AllowedOperationList"},
"Options":{"shape":"Options"}
}
},
"GrantList":{
"type":"list",
"member":{"shape":"Grant"}
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"GrantStatus":{
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"enum":[
"PENDING_WORKFLOW",
"PENDING_ACCEPT",
"REJECTED",
"ACTIVE",
"FAILED_WORKFLOW",
"DELETED",
"PENDING_DELETE",
"DISABLED",
"WORKFLOW_COMPLETED"
]
},
"GrantedLicense":{
"type":"structure",
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"LicenseArn":{"shape":"Arn"},
"LicenseName":{"shape":"String"},
"ProductName":{"shape":"String"},
"ProductSKU":{"shape":"String"},
"Issuer":{"shape":"IssuerDetails"},
"HomeRegion":{"shape":"String"},

"Status":{"shape":"LicenseStatus"},
"Validity":{"shape":"DatetimeRange"},
"Beneficiary":{"shape":"String"},
"Entitlements":{"shape":"EntitlementList"},
"ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},

"LicenseMetadata":{"shape":"MetadataList"},
"CreateTime":{"shape":"ISO8601DateTime"},
"Version":{"shape":"String"},
"ReceivedMetadata":{"shape":"ReceivedMetadata"}
}
},
"GrantedLicenseList":{
"type":"list",
"member":{"shape":"GrantedLicense"}
},
"ISO8601DateTime":{
"type":"string",
"max":50,
"pattern":"^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
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"Integer":{"type":"integer"},
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"members":{
"Message":{"shape":"Message"}
},
"exception":true,
"synthetic":true
},
"InvalidResourceStateException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"exception":true
},
"InventoryFilter":{
"type":"structure",
"required":[
"Name",
"Condition"
],
"members":{
"Name":{"shape":"String"},
"Condition":{"shape":"InventoryFilterCondition"},
"Value":{"shape":"String"}

```
  }
},
"InventoryFilterCondition":{
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  "enum":[
    "EQUALS",
    "NOT_EQUALS",
    "BEGINS_WITH",
    "CONTAINS"
  ]
},
"InventoryFilterList":{
  "type":"list",
  "member":{"shape":"InventoryFilter"}
},
"Issuer":{
  "type":"structure",
  "required":["Name"],
  "members":{
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    "SignKey":{"shape":"String"}
  }
},
"IssuerDetails":{
  "type":"structure",
  "members":{
    "Name":{"shape":"String"},
    "SignKey":{"shape":"String"},
    "KeyFingerprint":{"shape":"String"}
  }
},
"License":{
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  "members":{
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    "LicenseName":{"shape":"String"},

"ProductName":{"shape":"String"},
    "ProductSKU":{"shape":"String"},
    "Issuer":{"shape":"IssuerDetails"},
    "HomeRegion":{"shape":"String"},
    "Status":{"shape":"LicenseStatus"},
    "Validity":{"shape":"DatetimeRange"},
    "Beneficiary":{"shape":"String"},
    "Entitlements":{"shape":"EntitlementList"},
    "ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
    "LicenseMetadata":{"shape":"MetadataList"},
    "CreateTime":{"shape":"ISO8601DateTime"},
```

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    "Version":{"shape":"String"}
  }
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"LicenseConfiguration":{
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  "members":{
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    "LicenseConfigurationArn":{"shape":"String"},
    "Name":{"shape":"String"},
    "Description":{"shape":"String"},
    "LicenseCountingType":{"shape":"LicenseCountingType"},
    "LicenseRules":{"shape":"StringList"},
    "LicenseCount":{"shape":"BoxLong"},
    "LicenseCountHardLimit":{"shape":"BoxBoolean"},
     "DisassociateWhenNotFound":{"shape":"BoxBoolean"},
    "ConsumedLicenses":{"shape":"BoxLong"},
    "Status":{"shape":"String"},
    "OwnerAccountId":{"shape":"String"},
    "ConsumedLicenseSummaryList":{"shape":"ConsumedLicenseSummaryList"},
    "ManagedResourceSummaryList":{"shape":"ManagedResourceSummaryList"},
    "ProductInformationList":{"shape":"ProductInformationList"},
    "AutomatedDiscoveryInformation":{"shape":"AutomatedDiscoveryInformation"}
  }
},
"LicenseConfigurationAssociation":{
  "type":"structure",
  "members":{
    "ResourceArn":{"shape":"String"},
    "ResourceType":{"shape":"ResourceType"},
    "ResourceOwnerId":{"shape":"String"},
    "AssociationTime":{"shape":"DateTime"},
    "AmiAssociationScope":{"shape":"String"}
  }
},
"LicenseConfigurationAssociations":{
  "type":"list",
  "member":{"shape":"LicenseConfigurationAssociation"}
 },
"LicenseConfigurationStatus":{
  "type":"string",
  "enum":[
    "AVAILABLE",
    "DISABLED"
  ]
},
"LicenseConfigurationUsage":{
  "type":"structure",
  "members":{
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"ResourceArn":{"shape":"String"},
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"ResourceStatus":{"shape":"String"},
"ResourceOwnerId":{"shape":"String"},
"AssociationTime":{"shape":"DateTime"},
"ConsumedLicenses":{"shape":"BoxLong"}
}
},
"LicenseConfigurationUsageList":{
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"member":{"shape":"LicenseConfigurationUsage"}
},
"LicenseConfigurations":{
"type":"list",
"member":{"shape":"LicenseConfiguration"}
},
"LicenseConversionContext":{
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"members":{
"UsageOperation":{"shape":"UsageOperation"}
}
},
"LicenseConversionTask":{
"type":"structure",
"members":{
"LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"},
"ResourceArn":{"shape":"String"},
"SourceLicenseContext":{"shape":"LicenseConversionContext"},
"DestinationLicenseContext":{"shape":"LicenseConversionContext"},
"Status":{"shape":"LicenseConversionTaskStatus"},
"StatusMessage":{"shape":"String"},
"StartTime":{"shape":"DateTime"},
"LicenseConversionTime":{"shape":"DateTime"},
"EndTime":{"shape":"DateTime"}
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"LicenseConversionTaskId":{
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"max":50,
"pattern":"^lct-[a-zA-Z0-9]*"
},
"LicenseConversionTaskStatus":{
"type":"string",
"enum":[
"IN_PROGRESS",
"SUCCEEDED",
"FAILED"
]

},
"LicenseConversionTasks":{
  "type":"list",
  "member":{"shape":"LicenseConversionTask"}
},
"LicenseCountingType":{
  "type":"string",
  "enum":[
    "vCPU",
    "Instance",
    "Core",
    "Socket"
  ]
},
"LicenseDeletionStatus":{
   "type":"string",
  "enum":[
    "PENDING_DELETE",
    "DELETED"
  ]
},
"LicenseList":{
  "type":"list",
  "member":{"shape":"License"}
},
"LicenseOperationFailure":{
  "type":"structure",
  "members":{
    "ResourceArn":{"shape":"String"},
    "ResourceType":{"shape":"ResourceType"},
    "ErrorMessage":{"shape":"String"},
    "FailureTime":{"shape":"DateTime"},
    "OperationName":{"shape":"String"},
    "ResourceOwnerId":{"shape":"String"},
    "OperationRequestedBy":{"shape":"String"},
    "MetadataList":{"shape":"MetadataList"}
  }
},
"LicenseOperationFailureList":{
  "type":"list",
  "member":{"shape":"LicenseOperationFailure"}
},
"LicenseSpecification":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"},
    "AmiAssociationScope":{"shape":"String"}

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  }
},
 "LicenseSpecifications":{
  "type":"list",
  "member":{"shape":"LicenseSpecification"}
},
"LicenseStatus":{
  "type":"string",
  "enum":[
    "AVAILABLE",
    "PENDING_AVAILABLE",
    "DEACTIVATED",
    "SUSPENDED",
    "EXPIRED",
    "PENDING_DELETE",
    "DELETED"
  ]
},
"LicenseUsage":{
  "type":"structure",
  "members":{
    "EntitlementUsages":{"shape":"EntitlementUsageList"}
  }
},
"LicenseUsageException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"ListAssociationsForLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
  }
},
"ListAssociationsForLicenseConfigurationResponse":{
  "type":"structure",
   "members":{
    "LicenseConfigurationAssociations":{"shape":"LicenseConfigurationAssociations"},
    "NextToken":{"shape":"String"}
  }
},
"ListDistributedGrantsRequest":{
```

"type":"structure",
"members":{
"GrantArns":{"shape":"ArnList"},
"Filters":{"shape":"FilterList"},
"NextToken":{"shape":"String"},
"MaxResults":{"shape":"MaxSize100"}
}
},
"ListDistributedGrantsResponse":{
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"members":{
"Grants":{"shape":"GrantList"},
"NextToken":{"shape":"String"}
}
},
"ListFailuresForLicenseConfigurationOperationsRequest":{
"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{
"LicenseConfigurationArn":{"shape":"String"},
"MaxResults":{"shape":"BoxInteger"},
"NextToken":{"shape":"String"}
}
},
"ListFailuresForLicenseConfigurationOperationsResponse":{
"type":"structure",
"members":{
"LicenseOperationFailureList":{"shape":"LicenseOperationFailureList"},
"NextToken":{"shape":"String"}
}
},
"ListLicenseConfigurationsRequest":{
"type":"structure",
"members":{
"LicenseConfigurationArns":{"shape":"StringList"},
"MaxResults":{"shape":"BoxInteger"},
"NextToken":{"shape":"String"},
"Filters":{"shape":"Filters"}
}
},
"ListLicenseConfigurationsResponse":{
"type":"structure",
"members":{
"LicenseConfigurations":{"shape":"LicenseConfigurations"},
"NextToken":{"shape":"String"}
}
},
"ListLicenseConversionTasksRequest":{

"type":"structure",
"members":{
"NextToken":{"shape":"String"},
"MaxResults":{"shape":"BoxInteger"},
"Filters":{"shape":"Filters"}
}
},
"ListLicenseConversionTasksResponse":{
"type":"structure",
"members":{
"LicenseConversionTasks":{"shape":"LicenseConversionTasks"},
"NextToken":{"shape":"String"}
}
},
"ListLicenseManagerReportGeneratorsRequest":{
"type":"structure",
"members":{
"Filters":{"shape":"FilterList"},
"NextToken":{"shape":"String"},
"MaxResults":{"shape":"MaxSize100"}
}
},
"ListLicenseManagerReportGeneratorsResponse":{
"type":"structure",
"members":{
"ReportGenerators":{"shape":"ReportGeneratorList"},
"NextToken":{"shape":"String"}
}
},
"ListLicenseSpecificationsForResourceRequest":{
"type":"structure",
"required":["ResourceArn"],
"members":{
"ResourceArn":{"shape":"String"},
"MaxResults":{"shape":"BoxInteger"},
"NextToken":{"shape":"String"}
}
},
"ListLicenseSpecificationsForResourceResponse":{
"type":"structure",
"members":{
"LicenseSpecifications":{"shape":"LicenseSpecifications"},
"NextToken":{"shape":"String"}

}
},
"ListLicenseVersionsRequest":{
"type":"structure",

"required":["LicenseArn"],
"members":{
"LicenseArn":{"shape":"Arn"},
"NextToken":{"shape":"String"},
"MaxResults":{"shape":"MaxSize100"}
}
},
"ListLicenseVersionsResponse":{
"type":"structure",
"members":{
"Licenses":{"shape":"LicenseList"},
"NextToken":{"shape":"String"}
}
},
"ListLicensesRequest":{
"type":"structure",
"members":{
"LicenseArns":{"shape":"ArnList"},
"Filters":{"shape":"FilterList"},
"NextToken":{"shape":"String"},
"MaxResults":{"shape":"MaxSize100"}
}
},
"ListLicensesResponse":{
"type":"structure",
"members":{
"Licenses":{"shape":"LicenseList"},
"NextToken":{"shape":"String"}
}
},
"ListReceivedGrantsForOrganizationRequest":{
"type":"structure",
"required":["LicenseArn"],
"members":{
"LicenseArn":{"shape":"Arn"},
"Filters":{"shape":"FilterList"},
"NextToken":{"shape":"String"},
"MaxResults":{"shape":"MaxSize100"}
}
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"ListReceivedGrantsForOrganizationResponse":{
"type":"structure",
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"Grants":{"shape":"GrantList"},
"NextToken":{"shape":"String"}
}
},
"ListReceivedGrantsRequest":{

"type":"structure",
"members":{
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"Filters":{"shape":"FilterList"},
"NextToken":{"shape":"String"},
"MaxResults":{"shape":"MaxSize100"}
}
},
"ListReceivedGrantsResponse":{
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"members":{
"Grants":{"shape":"GrantList"},
"NextToken":{"shape":"String"}
}
},
"ListReceivedLicensesForOrganizationRequest":{
"type":"structure",
"members":{
"Filters":{"shape":"FilterList"},
"NextToken":{"shape":"String"},
"MaxResults":{"shape":"MaxSize100"}
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},
"ListReceivedLicensesForOrganizationResponse":{
"type":"structure",
"members":{
"Licenses":{"shape":"GrantedLicenseList"},
"NextToken":{"shape":"String"}
}
},
"ListReceivedLicensesRequest":{
"type":"structure",
"members":{
"LicenseArns":{"shape":"ArnList"},
"Filters":{"shape":"FilterList"},
"NextToken":{"shape":"String"},
"MaxResults":{"shape":"MaxSize100"}
}
},
"ListReceivedLicensesResponse":{
"type":"structure",
"members":{
"Licenses":{"shape":"GrantedLicenseList"},
"NextToken":{"shape":"String"}
}
},
"ListResourceInventoryRequest":{
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"members":{
"MaxResults":{"shape":"BoxInteger"},
"NextToken":{"shape":"String"},
"Filters":{"shape":"InventoryFilterList"}
}
},
"ListResourceInventoryResponse":{
"type":"structure",
"members":{
"ResourceInventoryList":{"shape":"ResourceInventoryList"},
"NextToken":{"shape":"String"}
}
},
"ListTagsForResourceRequest":{
"type":"structure",
"required":["ResourceArn"],
"members":{
"ResourceArn":{"shape":"String"}
}
},
"ListTagsForResourceResponse":{
"type":"structure",
"members":{
"Tags":{"shape":"TagList"}
}
},
"ListTokensRequest":{
"type":"structure",
"members":{
"TokenIds":{"shape":"StringList"},
"Filters":{"shape":"FilterList"},
"NextToken":{"shape":"String"},
"MaxResults":{"shape":"MaxSize100"}
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},
"ListTokensResponse":{
"type":"structure",
"members":{
"Tokens":{"shape":"TokenList"},
"NextToken":{"shape":"String"}
}
},
"ListUsageForLicenseConfigurationRequest":{
"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{
"LicenseConfigurationArn":{"shape":"String"},

"MaxResults":{"shape":"BoxInteger"},
"NextToken":{"shape":"String"},
"Filters":{"shape":"Filters"}
}
},
"ListUsageForLicenseConfigurationResponse":{
"type":"structure",
"members":{
"LicenseConfigurationUsageList":{"shape":"LicenseConfigurationUsageList"},
"NextToken":{"shape":"String"}
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"Location":{"type":"string"},
"Long":{"type":"long"},
"ManagedResourceSummary":{
"type":"structure",
"members":{
"ResourceType":{"shape":"ResourceType"},
"AssociationCount":{"shape":"BoxLong"}
}
},
"ManagedResourceSummaryList":{
"type":"list",
"member":{"shape":"ManagedResourceSummary"}
},
"MaxSize100":{
"type":"integer",
"max":100,
"min":1
},
"MaxSize3StringList":{
"type":"list",
"member":{"shape":"String"},
"max":3
},
"Message":{"type":"string"},
"Metadata":{
"type":"structure",
"members":{
"Name":{"shape":"String"},
"Value":{"shape":"String"}
}
},
"MetadataList":{
"type":"list",
"member":{"shape":"Metadata"}
},
"NoEntitlementsAllowedException":{

"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"exception":true
},
"Options":{
"type":"structure",
"members":{
"ActivationOverrideBehavior":{"shape":"ActivationOverrideBehavior"}
}
},
"OrganizationConfiguration":{
"type":"structure",
"required":["EnableIntegration"],
"members":{
"EnableIntegration":{"shape":"Boolean"}
}
},
"PrincipalArnList":{
"type":"list",
"member":{"shape":"Arn"},
"max":1,
"min":1
},
"ProductInformation":{
"type":"structure",
"required":[
"ResourceType",
"ProductInformationFilterList"
],
"members":{
"ResourceType":{"shape":"String"},
"ProductInformationFilterList":{"shape":"ProductInformationFilterList"}
}
},
"ProductInformationFilter":{
"type":"structure",
"required":[
"ProductInformationFilterName",
"ProductInformationFilterComparator"
],
"members":{
"ProductInformationFilterName":{"shape":"String"},
"ProductInformationFilterValue":{"shape":"StringList"},
"ProductInformationFilterComparator":{"shape":"String"}
}
},

"ProductInformationFilterList":{
  "type":"list",
  "member":{"shape":"ProductInformationFilter"}
},
"ProductInformationList":{
  "type":"list",
  "member":{"shape":"ProductInformation"}
},
"ProvisionalConfiguration":{
  "type":"structure",
  "required":["MaxTimeToLiveInMinutes"],
  "members":{
    "MaxTimeToLiveInMinutes":{"shape":"BoxInteger"}
  }
},
"RateLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
   },
  "exception":true
},
"ReceivedMetadata":{
  "type":"structure",
  "members":{
    "ReceivedStatus":{"shape":"ReceivedStatus"},
    "ReceivedStatusReason":{"shape":"StatusReasonMessage"},
    "AllowedOperations":{"shape":"AllowedOperationList"}
  }
},
"ReceivedStatus":{
  "type":"string",
  "enum":[
    "PENDING_WORKFLOW",
    "PENDING_ACCEPT",
    "REJECTED",
    "ACTIVE",
    "FAILED_WORKFLOW",
    "DELETED",
    "DISABLED",
    "WORKFLOW_COMPLETED"
  ]
},
"RedirectException":{
  "type":"structure",
  "members":{
    "Location":{"shape":"Location"},
    "Message":{"shape":"Message"}

```
  },
  "exception":true
},
"RejectGrantRequest":{
  "type":"structure",
  "required":["GrantArn"],
  "members":{
    "GrantArn":{"shape":"Arn"}
  }
},
"RejectGrantResponse":{
  "type":"structure",
  "members":{
     "GrantArn":{"shape":"Arn"},
    "Status":{"shape":"GrantStatus"},
    "Version":{"shape":"String"}
  }
},
"RenewType":{
  "type":"string",
  "enum":[
    "None",
    "Weekly",
    "Monthly"
  ]
},
"ReportContext":{
  "type":"structure",
  "required":["licenseConfigurationArns"],
  "members":{
    "licenseConfigurationArns":{"shape":"ArnList"}
  }
},
"ReportFrequency":{
  "type":"structure",
  "members":{
    "value":{"shape":"Integer"},
    "period":{"shape":"ReportFrequencyType"}
  }
},
"ReportFrequencyType":{
  "type":"string",
  "enum":[
    "DAY",
    "WEEK",
    "MONTH"
  ]
},
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"ReportGenerator":{
  "type":"structure",
  "members":{
    "ReportGeneratorName":{"shape":"String"},
    "ReportType":{"shape":"ReportTypeList"},
    "ReportContext":{"shape":"ReportContext"},
    "ReportFrequency":{"shape":"ReportFrequency"},
     "LicenseManagerReportGeneratorArn":{"shape":"String"},
    "LastRunStatus":{"shape":"String"},
    "LastRunFailureReason":{"shape":"String"},
    "LastReportGenerationTime":{"shape":"String"},
    "ReportCreatorAccount":{"shape":"String"},
    "Description":{"shape":"String"},
    "S3Location":{"shape":"S3Location"},
    "CreateTime":{"shape":"String"},
    "Tags":{"shape":"TagList"}
  }
},
"ReportGeneratorList":{
  "type":"list",
  "member":{"shape":"ReportGenerator"}
},
"ReportGeneratorName":{
  "type":"string",
  "max":100,
  "min":1
},
"ReportType":{
  "type":"string",
  "enum":[
    "LicenseConfigurationSummaryReport",
    "LicenseConfigurationUsageReport"
  ]
},
"ReportTypeList":{
  "type":"list",
  "member":{"shape":"ReportType"}
},
"ResourceInventory":{
  "type":"structure",
  "members":{
    "ResourceId":{"shape":"String"},
     "ResourceType":{"shape":"ResourceType"},
    "ResourceArn":{"shape":"String"},
    "Platform":{"shape":"String"},
    "PlatformVersion":{"shape":"String"},
    "ResourceOwningAccountId":{"shape":"String"}
  }

},
"ResourceInventoryList":{
  "type":"list",
  "member":{"shape":"ResourceInventory"}
},
"ResourceLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"ResourceNotFoundException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"ResourceType":{
  "type":"string",
  "enum":[
    "EC2_INSTANCE",
    "EC2_HOST",
    "EC2_AMI",
    "RDS",
    "SYSTEMS_MANAGER_MANAGED_INSTANCE"
  ]
},
"S3Location":{
  "type":"structure",
  "members":{
    "bucket":{"shape":"String"},
    "keyPrefix":{"shape":"String"}

}
},
"ServerInternalException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true,
  "fault":true
},
"SignedToken":{
  "type":"string",
  "min":4096

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},
"StatusReasonMessage":{
  "type":"string",
  "max":400,
  "pattern":"[\\s\\S]+"
},
"String":{"type":"string"},
"StringList":{
  "type":"list",
  "member":{"shape":"String"}
},
"Tag":{
  "type":"structure",
  "members":{
    "Key":{"shape":"String"},
    "Value":{"shape":"String"}
  }
},
"TagKeyList":{
  "type":"list",
  "member":{"shape":"String"}
},
"TagList":{
  "type":"list",
  "member":{"shape":"Tag"}
},
"TagResourceRequest":{
  "type":"structure",
  "required":[
    "ResourceArn",
    "Tags"
  ],
  "members":{
    "ResourceArn":{"shape":"String"},
    "Tags":{"shape":"TagList"}
  }
},
"TagResourceResponse":{
   "type":"structure",
  "members":{
  }
},
"TokenData":{
  "type":"structure",
  "members":{
    "TokenId":{"shape":"String"},
    "TokenType":{"shape":"String"},
    "LicenseArn":{"shape":"String"},
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"ExpirationTime":{"shape":"ISO8601DateTime"},
"TokenProperties":{"shape":"MaxSize3StringList"},
"RoleArns":{"shape":"ArnList"},
"Status":{"shape":"String"}
}
},
"TokenList":{
"type":"list",
"member":{"shape":"TokenData"}
},
"TokenString":{
"type":"string",
"max":4096,
"pattern":"\\S+"
},
"TokenType":{
"type":"string",
"enum":["REFRESH_TOKEN"]
},
"UnsupportedDigitalSignatureMethodException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"exception":true
},
"UntagResourceRequest":{
"type":"structure",
"required":[
"ResourceArn",
"TagKeys"
],
"members":{
"ResourceArn":{"shape":"String"},
"TagKeys":{"shape":"TagKeyList"}
}
},
"UntagResourceResponse":{
"type":"structure",
"members":{
}
},
"UpdateLicenseConfigurationRequest":{
"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{
"LicenseConfigurationArn":{"shape":"String"},
"LicenseConfigurationStatus":{"shape":"LicenseConfigurationStatus"},

"LicenseRules":{"shape":"StringList"},
"LicenseCount":{"shape":"BoxLong"},
"LicenseCountHardLimit":{"shape":"BoxBoolean"},
"Name":{"shape":"String"},
"Description":{"shape":"String"},
"ProductInformationList":{"shape":"ProductInformationList"},
"DisassociateWhenNotFound":{"shape":"BoxBoolean"}
}
},
"UpdateLicenseConfigurationResponse":{
"type":"structure",
"members":{
}
},
"UpdateLicenseManagerReportGeneratorRequest":{
"type":"structure",
"required":[
"LicenseManagerReportGeneratorArn",
"ReportGeneratorName",
"Type",
"ReportContext",
"ReportFrequency",
"ClientToken"
],
"members":{
"LicenseManagerReportGeneratorArn":{"shape":"String"},
"ReportGeneratorName":{"shape":"ReportGeneratorName"},
"Type":{"shape":"ReportTypeList"},
"ReportContext":{"shape":"ReportContext"},
"ReportFrequency":{"shape":"ReportFrequency"},
"ClientToken":{"shape":"ClientRequestToken"},
"Description":{"shape":"String"}
}
},
"UpdateLicenseManagerReportGeneratorResponse":{
"type":"structure",
"members":{
}
},
"UpdateLicenseSpecificationsForResourceRequest":{
"type":"structure",
"required":["ResourceArn"],
"members":{
"ResourceArn":{"shape":"String"},
"AddLicenseSpecifications":{"shape":"LicenseSpecifications"},
"RemoveLicenseSpecifications":{"shape":"LicenseSpecifications"}
}
},

"UpdateLicenseSpecificationsForResourceResponse":{
"type":"structure",
"members":{
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},
"UpdateServiceSettingsRequest":{
"type":"structure",
"members":{
"S3BucketArn":{"shape":"String"},
"SnsTopicArn":{"shape":"String"},
"OrganizationConfiguration":{"shape":"OrganizationConfiguration"},
"EnableCrossAccountsDiscovery":{"shape":"BoxBoolean"}
}
},
"UpdateServiceSettingsResponse":{
"type":"structure",
"members":{
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},
"UsageOperation":{
"type":"string",
"max":50
},
"ValidationException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"exception":true
}
}
}
{
"version": "2.0",
"service": " License Manager makes it easier to manage licenses from software vendors across multiple Amazon Web Services accounts and on-premises servers. ",
"operations": {
"AcceptGrant": " Accepts the specified grant. ",
"CheckInLicense": " Checks in the specified license. Check in a license when it is no longer in use. ",
"CheckoutBorrowLicense": " Checks out the specified license for offline use. ",
"CheckoutLicense": " Checks out the specified license. <note> If the account that created the license is the same that is performing the check out, you must specify the account as the beneficiary. </note>",
"CreateGrant": " Creates a grant for the specified license. A grant shares the use of license entitlements with a specific Amazon Web Services account, an organization, or an organizational unit (OU). For more information, see Granted licenses in License Manager in the License Manager User Guide. ",
"CreateGrantVersion": " Creates a new version of the specified grant. For more information, see Granted licenses in

License Manager in the License Manager User Guide. ",
"CreateLicense": " Creates a license. ",
"CreateLicenseConfiguration": " Creates a license configuration. A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a license must be associated with a host), and the number of licenses purchased and used. ",
"CreateLicenseConversionTaskForResource":
" Creates a new license conversion task. ",
"CreateLicenseManagerReportGenerator": " Creates a report generator. ",
"CreateLicenseVersion": " Creates a new version of the specified license. ",
"CreateToken": " Creates a long-lived token. A refresh token is a JWT token used to get an access token. With an access token, you can call AssumeRoleWithWebIdentity to get role credentials that you can use to call License Manager to manage the specified license. ",
"DeleteGrant": " Deletes the specified grant. ",
"DeleteLicense": " Deletes the specified license. ",
"DeleteLicenseConfiguration": " Deletes the specified license configuration. You cannot delete a license configuration that is in use. ",
"DeleteLicenseManagerReportGenerator": " Deletes the specified report generator. This action deletes the report generator, which stops it from generating future reports. The action cannot be reversed. It
has no effect on the previous reports from this generator. ",
"DeleteToken": " Deletes the specified token. Must be called in the license home Region. ",
"ExtendLicenseConsumption": " Extends the expiration date for license consumption. ",
"GetAccessToken": " Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access tokens are valid for one hour. ",
"GetGrant": " Gets detailed information about the specified grant. ",
"GetLicense": " Gets detailed information about the specified license. ",
"GetLicenseConfiguration": " Gets detailed information about the specified license configuration. ",
"GetLicenseConversionTask": " Gets information about the specified license type conversion task. ",
"GetLicenseManagerReportGenerator": " Gets information about the specified report generator. ",
"GetLicenseUsage": " Gets detailed information about the usage of the specified license. ",
"GetServiceSettings":
" Gets the License Manager settings for the current Region. ",
"ListAssociationsForLicenseConfiguration": " Lists the resource associations for the specified license configuration. Resource associations need not consume licenses from a license configuration. For example, an AMI or a stopped instance might not consume a license (depending on the license rules). ",
"ListDistributedGrants": " Lists the grants distributed for the specified license. ",
"ListFailuresForLicenseConfigurationOperations": " Lists the license configuration operations that failed. ",
"ListLicenseConfigurations": " Lists the license configurations for your account. ",
"ListLicenseConversionTasks": " Lists the license type conversion tasks for your account. ",
"ListLicenseManagerReportGenerators": " Lists the report generators for your account. ",
"ListLicenseSpecificationsForResource": " Describes the license configurations for the
specified resource. ",
"ListLicenseVersions": " Lists all versions of the specified license. ",
"ListLicenses": " Lists the licenses for your account. ",
"ListReceivedGrants": " Lists grants that are received. Received grants are grants created while specifying the recipient as this Amazon Web Services account, your organization, or an organizational unit (OU) to which this

member account belongs. ",
"ListReceivedGrantsForOrganization": " Lists the grants received for all accounts in the organization. ",
"ListReceivedLicenses": " Lists received licenses. ",
"ListReceivedLicensesForOrganization": " Lists the licenses received for all accounts in the organization. ",
"ListResourceInventory": " Lists resources managed using Systems Manager inventory. ",
"ListTagsForResource": " Lists the tags for the specified license configuration. ",
"ListTokens": " Lists your tokens. ",
"ListUsageForLicenseConfiguration":
" Lists all license usage records for a license configuration, displaying license consumption details by resource at a selected point in time. Use this action to audit the current license consumption for any license inventory and configuration. ",
"RejectGrant": " Rejects the specified grant. ",
"TagResource": " Adds the specified tags to the specified license configuration. ",
"UntagResource": " Removes the specified tags from the specified license configuration. ",
"UpdateLicenseConfiguration": " Modifies the attributes of an existing license configuration. ",
"UpdateLicenseManagerReportGenerator": " Updates a report generator. After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated. ",
"UpdateLicenseSpecificationsForResource": " Adds or removes the specified license configurations for the specified Amazon Web Services resource. You can update the
license specifications of AMIs, instances, and hosts. You cannot update the license specifications for launch templates and CloudFormation templates, as they send license configurations to the operation that creates the resource. ",
"UpdateServiceSettings": " Updates License Manager settings for the current Region. "
},
"shapes": {
"AcceptGrantRequest": {
"base": null,
"refs": {
}
},
"AcceptGrantResponse": {
"base": null,
"refs": {
}
},
"AccessDeniedException": {
"base": " Access to resource denied. ",
"refs": {
}
},
"ActivationOverrideBehavior": {
"base": null,
"refs": {
"Options$ActivationOverrideBehavior": " An activation option for your grant that determines the behavior of activating a grant. Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code>

for the <code>Status</code> parameter.   As a license administrator, you can optionally specify an <code>ActivationOverrideBehavior</code> when activating a grant.   As a grantor, you can optionally specify an <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee account in your organization.   As a grantee, if the grantor creating the distributed grant doesnt specify an <code>ActivationOverrideBehavior</code>, you can optionally specify one when you are activating the grant.   <dl> <dt>DISTRIBUTED_GRANTS_ONLY</dt> <dd> Use this value to activate a grant without replacing any member accounts active grants for the same product. </dd> <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt> <dd> Use this value to activate a grant and disable other active grants in any member accounts for the same product. This action will also replace their previously activated grants with this activated grant.
</dd> </dl>"
    }
  },
  "AllowedOperation": {
    "base": null,
    "refs": {
      "AllowedOperationList$member": null
    }
  },
  "AllowedOperationList": {
    "base": null,
    "refs": {
      "CreateGrantRequest$AllowedOperations": " Allowed operations for the grant. ",
      "CreateGrantVersionRequest$AllowedOperations": " Allowed operations for the grant. ",
      "Grant$GrantedOperations": " Granted operations. ",
      "ReceivedMetadata$AllowedOperations": " Allowed operations. "
    }
  },
  "Arn": {
    "base": null,
    "refs": {
      "AcceptGrantRequest$GrantArn": " Amazon Resource Name (ARN) of the grant. ",
      "AcceptGrantResponse$GrantArn": " Grant ARN. ",
      "ArnList$member": null,
      "CheckoutBorrowLicenseRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. The license must use the borrow consumption configuration. ",
      "CheckoutBorrowLicenseResponse$LicenseArn":
" Amazon Resource Name (ARN) of the license. ",
      "CreateGrantRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
      "CreateGrantResponse$GrantArn": " Grant ARN. ",
      "CreateGrantVersionRequest$GrantArn": " Amazon Resource Name (ARN) of the grant. ",
      "CreateGrantVersionResponse$GrantArn": " Grant ARN. ",
      "CreateLicenseConversionTaskForResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of the resource you are converting the license type for. ",
      "CreateLicenseResponse$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
      "CreateLicenseVersionRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
      "CreateLicenseVersionResponse$LicenseArn": " License ARN. ",
      "CreateTokenRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. The ARN is mapped

to the aud claim of the JWT token. ",
"DeleteGrantRequest$GrantArn":
" Amazon Resource Name (ARN) of the grant. ",
"DeleteGrantResponse$GrantArn": " Grant ARN. ",
"DeleteLicenseRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"GetGrantRequest$GrantArn": " Amazon Resource Name (ARN) of the grant. ",
"GetLicenseRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"GetLicenseUsageRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"Grant$GrantArn": " Amazon Resource Name (ARN) of the grant. ",
"Grant$ParentArn": " Parent ARN. ",
"Grant$LicenseArn": " License ARN. ",
"Grant$GranteePrincipalArn": " The grantee principal ARN. ",
"GrantedLicense$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"License$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"ListLicenseVersionsRequest$LicenseArn": " Amazon Resource Name (ARN) of
the license. ",
"ListReceivedGrantsForOrganizationRequest$LicenseArn": " The Amazon Resource Name (ARN) of the
received license. ",
"PrincipalArnList$member": null,
"RejectGrantRequest$GrantArn": " Amazon Resource Name (ARN) of the grant. ",
"RejectGrantResponse$GrantArn": " Grant ARN. "
}
},
"ArnList": {
"base": null,
"refs": {
"CreateTokenRequest$RoleArns": " Amazon Resource Name (ARN) of the IAM roles to embed in the
token. License Manager does not check whether the roles are in use. ",
"ListDistributedGrantsRequest$GrantArns": " Amazon Resource Names (ARNs) of the grants. ",
"ListLicensesRequest$LicenseArns": " Amazon Resource Names (ARNs) of the licenses. ",
"ListReceivedGrantsRequest$GrantArns": " Amazon Resource Names (ARNs) of the grants. ",
"ListReceivedLicensesRequest$LicenseArns": " Amazon Resource Names (ARNs) of the licenses. ",

"ReportContext$licenseConfigurationArns": " Amazon Resource Name (ARN) of the license configuration
that this generator reports on. ",
"TokenData$RoleArns": " Amazon Resource Names (ARN) of the roles included in the token. "
}
},
"AuthorizationException": {
"base": " The Amazon Web Services user account does not have permission to perform the action. Check the
IAM policy associated with this account. ",
"refs": {
}
},
"AutomatedDiscoveryInformation": {
"base": " Describes automated discovery. ",
"refs": {
"GetLicenseConfigurationResponse$AutomatedDiscoveryInformation": " Automated discovery

information. ",
"LicenseConfiguration$AutomatedDiscoveryInformation": " Automated discovery information. "
}
},
"Boolean": {
"base": null,
"refs": {
"ExtendLicenseConsumptionRequest$DryRun": " Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions. ",
"OrganizationConfiguration$EnableIntegration": " Enables Organizations integration. "
}
},
"BorrowConfiguration": {
"base": " Details about a borrow configuration. ",
"refs": {
"ConsumptionConfiguration$BorrowConfiguration": " Details about a borrow configuration. "
}
},
"BoxBoolean": {
"base": null,
"refs": {
"BorrowConfiguration$AllowEarlyCheckIn": " Indicates whether early check-ins are allowed. ",
"CreateLicenseConfigurationRequest$LicenseCountHardLimit": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit blocks the launch of new instances. ",
"CreateLicenseConfigurationRequest$DisassociateWhenNotFound": " When true, disassociates a resource when software is uninstalled. ",
"Entitlement$Overage": " Indicates
whether overages are allowed. ",
"Entitlement$AllowCheckIn": " Indicates whether check-ins are allowed. ",
"GetLicenseConfigurationResponse$LicenseCountHardLimit": " Sets the number of available licenses as a hard limit. ",
"GetLicenseConfigurationResponse$DisassociateWhenNotFound": " When true, disassociates a resource when software is uninstalled. ",
"GetServiceSettingsResponse$EnableCrossAccountsDiscovery": " Indicates whether cross-account discovery is enabled. ",
"LicenseConfiguration$LicenseCountHardLimit": " Number of available licenses as a hard limit. ",
"LicenseConfiguration$DisassociateWhenNotFound": " When true, disassociates a resource when software is uninstalled. ",
"UpdateLicenseConfigurationRequest$LicenseCountHardLimit": " New hard limit of the number of available licenses. ",
"UpdateLicenseConfigurationRequest$DisassociateWhenNotFound": " When true, disassociates
a resource when software is uninstalled. ",
"UpdateServiceSettingsRequest$EnableCrossAccountsDiscovery": " Activates cross-account discovery. "
}
},
"BoxInteger": {

"base": null,
"refs": {
"BorrowConfiguration$MaxTimeToLiveInMinutes": " Maximum time for the borrow configuration, in minutes. ",
"ListAssociationsForLicenseConfigurationRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListFailuresForLicenseConfigurationOperationsRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListLicenseConfigurationsRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListLicenseConversionTasksRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListLicenseSpecificationsForResourceRequest$MaxResults": " Maximum number of results to return in a single call. ",

"ListResourceInventoryRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListUsageForLicenseConfigurationRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ProvisionalConfiguration$MaxTimeToLiveInMinutes": " Maximum time for the provisional configuration, in minutes. "
}
},
"BoxLong": {
"base": null,
"refs": {
"ConsumedLicenseSummary$ConsumedLicenses": " Number of licenses consumed by the resource. ",
"CreateLicenseConfigurationRequest$LicenseCount": " Number of licenses managed by the license configuration. ",
"GetLicenseConfigurationResponse$LicenseCount": " Number of available licenses. ",
"GetLicenseConfigurationResponse$ConsumedLicenses": " Number of licenses assigned to resources. ",
"LicenseConfiguration$LicenseCount": " Number of licenses managed by the license configuration. ",
"LicenseConfiguration$ConsumedLicenses":
" Number of licenses consumed. ",
"LicenseConfigurationUsage$ConsumedLicenses": " Number of licenses consumed by the resource. ",
"ManagedResourceSummary$AssociationCount": " Number of resources associated with licenses. ",
"UpdateLicenseConfigurationRequest$LicenseCount": " New number of licenses managed by the license configuration. "
}
},
"CheckInLicenseRequest": {
"base": null,
"refs": {
}
},
"CheckInLicenseResponse": {
"base": null,
"refs": {
}

},
"CheckoutBorrowLicenseRequest": {
"base": null,
"refs": {
}
},
"CheckoutBorrowLicenseResponse": {
"base": null,
"refs": {
}
},
"CheckoutLicenseRequest": {
"base": null,
"refs": {
}
},
"CheckoutLicenseResponse": {
"base": null,
"refs": {
}
},
"CheckoutType": {
"base": null,
"refs": {
"CheckoutLicenseRequest$CheckoutType": " Checkout type. ",
"CheckoutLicenseResponse$CheckoutType": " Checkout type. "
}
},
"ClientRequestToken": {
"base": null,
"refs": {
"CreateLicenseManagerReportGeneratorRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"UpdateLicenseManagerReportGeneratorRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. "
}
},
"ClientToken": {
"base": null,
"refs": {
"CheckoutBorrowLicenseRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"CheckoutLicenseRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"CreateGrantRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"CreateGrantVersionRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",

"CreateLicenseRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"CreateLicenseVersionRequest$ClientToken": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"CreateTokenRequest$ClientToken": " Idempotency token, valid for 10 minutes. "
}
},
"ConflictException": {
"base": " There was a conflict processing the request. Try your request again. ",
"refs": {
}
},
"ConsumedLicenseSummary": {
"base": " Details about license consumption. ",
"refs": {
"ConsumedLicenseSummaryList$member": null
}
},
"ConsumedLicenseSummaryList": {
"base": null,
"refs": {
"GetLicenseConfigurationResponse$ConsumedLicenseSummaryList": " Summaries of the licenses consumed by resources. ",
"LicenseConfiguration$ConsumedLicenseSummaryList": " Summaries for licenses consumed by various resources. "
}
},
"ConsumptionConfiguration": {
"base": " Details about a consumption configuration. ",
"refs": {
"CreateLicenseRequest$ConsumptionConfiguration": " Configuration for consumption of the license. Choose a provisional configuration for workloads running with continuous connectivity. Choose a borrow configuration for workloads with offline usage. ",
"CreateLicenseVersionRequest$ConsumptionConfiguration": " Configuration for consumption of the license. Choose a provisional configuration for workloads running with continuous connectivity. Choose a borrow configuration for workloads with offline usage. ",
"GrantedLicense$ConsumptionConfiguration": " Configuration for consumption of the license. ",
"License$ConsumptionConfiguration": " Configuration for consumption of the license. "
}
},
"CreateGrantRequest": {
"base": null,
"refs": {
}
},
"CreateGrantResponse": {
"base": null,

```
  "refs": {
  }
},
"CreateGrantVersionRequest": {
  "base": null,
  "refs": {
  }
},
"CreateGrantVersionResponse": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseConfigurationRequest": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseConfigurationResponse": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseConversionTaskForResourceRequest": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseConversionTaskForResourceResponse": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseManagerReportGeneratorRequest": {
  "base": null,
  "refs": {

 }
},
"CreateLicenseManagerReportGeneratorResponse": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseRequest": {
  "base": null,
  "refs": {
  }
```

```
  },
  "CreateLicenseResponse": {
    "base": null,
    "refs": {
    }
  },
  "CreateLicenseVersionRequest": {
    "base": null,
    "refs": {
    }
  },
  "CreateLicenseVersionResponse": {
    "base": null,
    "refs": {
    }
  },
  "CreateTokenRequest": {
    "base": null,
    "refs": {
    }
  },
  "CreateTokenResponse": {
    "base": null,
    "refs": {
    }
  },
  "DateTime": {
    "base": null,
    "refs": {
      "AutomatedDiscoveryInformation$LastRunTime": "<p>Time that automated discovery last ran.</p>",
      "GetLicenseConversionTaskResponse$StartTime": "<p>Time at which the license type conversion task was started .</p>",
      "GetLicenseConversionTaskResponse$LicenseConversionTime": "<p>Amount of time to complete the license type conversion.</p>",
      "GetLicenseConversionTaskResponse$EndTime": "<p>Time at which the license type conversion task was completed.</p>",
      "LicenseConfigurationAssociation$AssociationTime": "<p>Time when the license configuration was associated with the resource.</p>",
      "LicenseConfigurationUsage$AssociationTime": "<p>Time when the license configuration was initially associated with the resource.</p>",
      "LicenseConversionTask$StartTime": "<p>The time the conversion task was started at.</p>",
      "LicenseConversionTask$LicenseConversionTime": "<p>The time the usage operation value of the resource was changed.</p>",
      "LicenseConversionTask$EndTime": "<p>The time the conversion task was completed.</p>",
      "LicenseOperationFailure$FailureTime": "<p>Failure time.</p>"
    }
  },
  "DatetimeRange": {
```

"base": " Describes a time range, in ISO8601-UTC format. ",
"refs": {
"CreateLicenseRequest$Validity": " Date
and time range during which the license is valid, in ISO8601-UTC format. ",
"CreateLicenseVersionRequest$Validity": " Date and time range during which the license is valid, in ISO8601-UTC format. ",
"GrantedLicense$Validity": " Date and time range during which the granted license is valid, in ISO8601-UTC format. ",
"License$Validity": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"DeleteGrantRequest": {
"base": null,
"refs": {
}
},
"DeleteGrantResponse": {
"base": null,
"refs": {
}
},
"DeleteLicenseConfigurationRequest": {
"base": null,
"refs": {
}
},
"DeleteLicenseConfigurationResponse": {
"base": null,
"refs": {
}
},
"DeleteLicenseManagerReportGeneratorRequest": {
"base": null,
"refs": {
}
},
"DeleteLicenseManagerReportGeneratorResponse": {
"base": null,
"refs": {
}
},
"DeleteLicenseRequest": {
"base": null,
"refs": {
}
},
"DeleteLicenseResponse": {
"base": null,

"refs": {
}
},
"DeleteTokenRequest": {
"base": null,
"refs": {
}
},
"DeleteTokenResponse": {
"base": null,
"refs": {
}
},
"DigitalSignatureMethod": {
"base": null,
"refs": {
"CheckoutBorrowLicenseRequest$DigitalSignatureMethod": " Digital signature method. The possible value is JSON Web Signature (JWS) algorithm PS384. For more information, see RFC 7518 Digital Signature with RSASSA-PSS. "
}
},
"Entitlement": {
"base": " Describes a resource entitled for use with a license. ",
"refs": {
"EntitlementList$member": null
}
},
"EntitlementData": {
"base": " Data associated with an entitlement resource. ",

"refs": {
"EntitlementDataList$member": null
}
},
"EntitlementDataList": {
"base": null,
"refs": {
"CheckoutBorrowLicenseRequest$Entitlements": " License entitlements. Partial checkouts are not supported. ",
"CheckoutBorrowLicenseResponse$EntitlementsAllowed": " Allowed license entitlements. ",
"CheckoutLicenseRequest$Entitlements": " License entitlements. ",
"CheckoutLicenseResponse$EntitlementsAllowed": " Allowed license entitlements. "
}
},
"EntitlementDataUnit": {
"base": null,
"refs": {
"EntitlementData$Unit": " Entitlement data unit. ",

"EntitlementUsage$Unit": " Entitlement usage unit. "
}
},
"EntitlementList": {
"base": null,
"refs": {
"CreateLicenseRequest$Entitlements": " License entitlements. ",
"CreateLicenseVersionRequest$Entitlements": " License entitlements. ",
"GrantedLicense$Entitlements":
" License entitlements. ",
"License$Entitlements": " License entitlements. "
}
},
"EntitlementNotAllowedException": {
"base": " The entitlement is not allowed. ",
"refs": {
}
},
"EntitlementUnit": {
"base": null,
"refs": {
"Entitlement$Unit": " Entitlement unit. "
}
},
"EntitlementUsage": {
"base": " Usage associated with an entitlement resource. ",
"refs": {
"EntitlementUsageList$member": null
}
},
"EntitlementUsageList": {
"base": null,
"refs": {
"LicenseUsage$EntitlementUsages": " License entitlement usages. "
}
},
"ExtendLicenseConsumptionRequest": {
"base": null,
"refs": {
}
},
"ExtendLicenseConsumptionResponse": {
"base": null,
"refs": {
}
},
"FailedDependencyException": {
"base": " A dependency required to run the API is missing. ",

"refs": {
}
},
"Filter": {
"base": " A filter name and value pair that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs. ",
"refs": {
"FilterList$member": null,
"Filters$member": null
}
},
"FilterLimitExceededException": {
"base": " The request uses too many filters or too many filter values. ",
"refs": {
}
},
"FilterList": {
"base": null,
"refs": {
"ListDistributedGrantsRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>LicenseArn</code>   <code>GrantStatus</code>   <code>GranteePrincipalARN</code>   <code>ProductSKU</code>   <code>LicenseIssuerName</code> ",
"ListLicenseManagerReportGeneratorsRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>LicenseConfigurationArn</code> ",
"ListLicensesRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>Beneficiary</code>   <code>ProductSKU</code>   <code>Fingerprint</code>   <code>Status</code> ",
"ListReceivedGrantsForOrganizationRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>ParentArn</code>   <code>GranteePrincipalArn</code> ",
"ListReceivedGrantsRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>ProductSKU</code>   <code>LicenseIssuerName</code>   <code>LicenseArn</code>   <code>GrantStatus</code>   <code>GranterAccountId</code> ",
"ListReceivedLicensesForOrganizationRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>Beneficiary</code>   <code>ProductSKU</code> ",
"ListReceivedLicensesRequest$Filters": " Filters to scope the results. The following filters are supported: <ul> <code>ProductSKU</code>   <code>Status</code>   <code>Fingerprint</code>   <code>IssuerName</code>   <code>Beneficiary</code> ",
"ListTokensRequest$Filters": " Filters to scope the results. The following filter is supported: <ul> <code>LicenseArns</code> "
}
},
"FilterName": {

"base": null,
"refs": {
"Filter$Name": " Name of the filter. Filter names are case-sensitive. "
}
},
"FilterValue": {
"base": null,
"refs": {
"FilterValues$member": null
}
},
"FilterValues": {
"base": null,
"refs": {
"Filter$Values": " The value of the filter, which is case-sensitive. You can only specify one value for the filter. "
}
},
"Filters": {
"base": null,
"refs": {
"ListLicenseConfigurationsRequest$Filters": " Filters to scope the results. The following filters and logical operators are supported: <ul> <code>licenseCountingType</code> - The dimension for which licenses are counted. Possible values are <code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement is used. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>usagelimitExceeded</code> - A Boolean value that indicates whether the available licenses have been exceeded. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. ",
"ListLicenseConversionTasksRequest$Filters": " Filters to scope the results. Valid filters are <code>ResourceArns</code> and <code>Status</code>. ",
"ListUsageForLicenseConfigurationRequest$Filters": " Filters to scope the results. The following filters and logical operators are supported: <ul> <code>resourceArn</code> - The ARN of the license configuration resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>resourceAccount</code> - The ID of the account that owns the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. "
}
},
"GetAccessTokenRequest": {
"base": null,
"refs": {
}
},

"GetAccessTokenResponse": {
"base": null,
"refs": {
}
},
"GetGrantRequest": {
"base": null,
"refs": {
}
},
"GetGrantResponse": {
"base": null,
"refs": {
}
},
"GetLicenseConfigurationRequest": {
"base": null,
"refs": {
}
},
"GetLicenseConfigurationResponse": {
"base": null,
"refs": {
}
},
"GetLicenseConversionTaskRequest": {
"base": null,
"refs": {
}
},
"GetLicenseConversionTaskResponse": {
"base": null,
"refs": {
}
},
"GetLicenseManagerReportGeneratorRequest": {
"base": null,
"refs": {
}
},
"GetLicenseManagerReportGeneratorResponse": {
"base":
null,
"refs": {
}
},
"GetLicenseRequest": {
"base": null,

"refs": {
}
},
"GetLicenseResponse": {
"base": null,
"refs": {
}
},
"GetLicenseUsageRequest": {
"base": null,
"refs": {
}
},
"GetLicenseUsageResponse": {
"base": null,
"refs": {
}
},
"GetServiceSettingsRequest": {
"base": null,
"refs": {
}
},
"GetServiceSettingsResponse": {
"base": null,
"refs": {
}
},
"Grant": {
"base": " Describes a grant. ",
"refs": {
"GetGrantResponse$Grant": " Grant details. ",
"GrantList$member": null
}
},
"GrantList": {
"base": null,
"refs": {
"ListDistributedGrantsResponse$Grants": " Distributed grant details. ",
"ListReceivedGrantsForOrganizationResponse$Grants": " Lists the grants the organization has received. ",
"ListReceivedGrantsResponse$Grants": " Received grant details. "
}
},
"GrantStatus": {
"base": null,
"refs": {

"AcceptGrantResponse$Status": " Grant status. ",
"CreateGrantResponse$Status": " Grant status. ",
"CreateGrantVersionRequest$Status": " Grant status. ",
"CreateGrantVersionResponse$Status": " Grant status. ",
"DeleteGrantResponse$Status": " Grant status. ",
"Grant$GrantStatus": " Grant status. ",
"RejectGrantResponse$Status": " Grant status. "
}
},
"GrantedLicense": {
"base": " Describes a license that is granted to a grantee. ",
"refs": {
"GrantedLicenseList$member": null
}
},
"GrantedLicenseList": {
"base": null,
"refs": {
"ListReceivedLicensesForOrganizationResponse$Licenses": " Lists the licenses the organization has received. ",
"ListReceivedLicensesResponse$Licenses": " Received license details. "
}
},
"ISO8601DateTime": {
"base": null,
"refs": {
"CheckoutBorrowLicenseResponse$IssuedAt": " Date and time at which the license checkout is issued. ",
"CheckoutBorrowLicenseResponse$Expiration": " Date and time at which the license checkout expires. ",
"CheckoutLicenseResponse$IssuedAt": " Date and time at which the license checkout is issued. ",
"CheckoutLicenseResponse$Expiration": " Date and time at which the license checkout expires. ",
"DatetimeRange$Begin": " Start of the time range. ",
"DatetimeRange$End": " End of the time range. ",
"DeleteLicenseResponse$DeletionDate": " Date when the license is deleted. ",
"ExtendLicenseConsumptionResponse$Expiration": " Date and time at which the license consumption expires. ",
"GrantedLicense$CreateTime": " Creation time of the granted license. ",
"License$CreateTime": " License creation time. ",
"TokenData$ExpirationTime": " Token expiration time, in ISO8601-UTC format. "
}
},
"Integer": {
"base": null,
"refs": {
"CreateTokenRequest$ExpirationInDays": " Token expiration, in days, counted from token creation. The

default is 365 days. ",
"ReportFrequency$value": " Number of times within the frequency period that a report is generated. The only supported value is <code>1</code>. "
}
},
"InvalidParameterValueException": {
"base": " One or more parameter values are not valid. ",
"refs": {
}
},
"InvalidResourceStateException": {
"base": " License Manager cannot allocate a license to a resource because of its state. For example, you cannot allocate a license to an instance in the process of shutting down. ",
"refs": {
}
},
"InventoryFilter": {
"base": " An inventory filter. ",
"refs": {

"InventoryFilterList$member": null
}
},
"InventoryFilterCondition": {
"base": null,
"refs": {
"InventoryFilter$Condition": " Condition of the filter. "
}
},
"InventoryFilterList": {
"base": null,
"refs": {
"ListResourceInventoryRequest$Filters": " Filters to scope the results. The following filters and logical operators are supported: <ul> <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>application_name</code> - The name of the application. Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.   <code>license_included</code> - The type of license included. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. Possible values are <code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-web</code>
| <code>windows-server-datacenter</code>.   <code>platform</code> - The platform of the resource. Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.   <code>resource_id</code> - The ID of the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>tag:<key></code> - The key/value combination of a tag assigned to the resource. Logical operators are <code>EQUALS</code> (single account) or <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account). "
}
},

"Issuer": {
"base": " Details about the issuer of a license. ",
"refs": {
"CreateLicenseRequest$Issuer": " License issuer. ",
"CreateLicenseVersionRequest$Issuer": " License issuer. "
}
},
"IssuerDetails": {
"base": " Details associated with the issuer of a license. ",
"refs": {
"GrantedLicense$Issuer": " Granted
license issuer. ",
"License$Issuer": " License issuer. "
}
},
"License": {
"base": " Software license that is managed in License Manager. ",
"refs": {
"GetLicenseResponse$License": " License details. ",
"LicenseList$member": null
}
},
"LicenseConfiguration": {
"base": " A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM must be associated with a host), and the number of licenses purchased and used. ",
"refs": {
"LicenseConfigurations$member": null
}
},
"LicenseConfigurationAssociation": {
"base": " Describes an association with a license configuration. ",
"refs": {
"LicenseConfigurationAssociations$member": null
}
},
"LicenseConfigurationAssociations": {
"base": null,
"refs": {
"ListAssociationsForLicenseConfigurationResponse$LicenseConfigurationAssociations": " Information about the associations for the license configuration. "
}
},
"LicenseConfigurationStatus": {
"base": null,
"refs": {
"UpdateLicenseConfigurationRequest$LicenseConfigurationStatus": " New status of the license

configuration. "
    }
  },
  "LicenseConfigurationUsage": {
    "base": " Details about the usage of a resource associated with a license configuration. ",
    "refs": {
      "LicenseConfigurationUsageList$member": null
    }
  },
  "LicenseConfigurationUsageList": {
    "base": null,
    "refs": {
      "ListUsageForLicenseConfigurationResponse$LicenseConfigurationUsageList": " Information about the license configurations. "
    }

  },
  "LicenseConfigurations": {
    "base": null,
    "refs": {
      "ListLicenseConfigurationsResponse$LicenseConfigurations": " Information about the license configurations. "
    }
  },
  "LicenseConversionContext": {
    "base": " Information about a license type conversion task. ",
    "refs": {
      "CreateLicenseConversionTaskForResourceRequest$SourceLicenseContext": " Information that identifies the license type you are converting from. For the structure of the source license, see Convert a license type using the CLI in the License Manager User Guide. ",
      "CreateLicenseConversionTaskForResourceRequest$DestinationLicenseContext": " Information that identifies the license type you are converting to. For the structure of the destination license, see Convert
 a license type using the CLI in the License Manager User Guide. ",
      "GetLicenseConversionTaskResponse$SourceLicenseContext": " Information about the license type converted from. ",
      "GetLicenseConversionTaskResponse$DestinationLicenseContext": " Information about the license type converted to. ",
      "LicenseConversionTask$SourceLicenseContext": " Information about the license type this conversion task converted from. ",
      "LicenseConversionTask$DestinationLicenseContext": " Information about the license type this conversion task converted to. "
    }
  },
  "LicenseConversionTask": {
    "base": " Information about a license type conversion task. ",

"refs": {
"LicenseConversionTasks$member": null
}
},
"LicenseConversionTaskId": {
"base": null,
"refs": {
"CreateLicenseConversionTaskForResourceResponse$LicenseConversionTaskId":
" The ID of the created license type conversion task. ",
"GetLicenseConversionTaskRequest$LicenseConversionTaskId": " ID of the license type conversion task to retrieve information on. ",
"GetLicenseConversionTaskResponse$LicenseConversionTaskId": " ID of the license type conversion task. ",
"LicenseConversionTask$LicenseConversionTaskId": " The ID of the license type conversion task. "
}
},
"LicenseConversionTaskStatus": {
"base": null,
"refs": {
"GetLicenseConversionTaskResponse$Status": " Status of the license type conversion task. ",
"LicenseConversionTask$Status": " The status of the conversion task. "
}
},
"LicenseConversionTasks": {
"base": null,
"refs": {
"ListLicenseConversionTasksResponse$LicenseConversionTasks": " Information about the license configuration tasks for your account. "
}
},
"LicenseCountingType":
{
"base": null,
"refs": {
"CreateLicenseConfigurationRequest$LicenseCountingType": " Dimension used to track the license inventory. ",
"GetLicenseConfigurationResponse$LicenseCountingType": " Dimension for which the licenses are counted. ",
"LicenseConfiguration$LicenseCountingType": " Dimension to use to track the license inventory. "
}
},
"LicenseDeletionStatus": {
"base": null,
"refs": {
"DeleteLicenseResponse$Status": " License status. "
}
},
"LicenseList": {

"base": null,
"refs": {
"ListLicenseVersionsResponse$Licenses": " License details. ",
"ListLicensesResponse$Licenses": " License details. "
}
},
"LicenseOperationFailure": {
"base": " Describes the failure of a license operation. ",
"refs": {
"LicenseOperationFailureList$member": null
}
},
"LicenseOperationFailureList": {
"base":
null,
"refs": {
"ListFailuresForLicenseConfigurationOperationsResponse$LicenseOperationFailureList": " License configuration operations that failed. "
}
},
"LicenseSpecification": {
"base": " Details for associating a license configuration with a resource. ",
"refs": {
"LicenseSpecifications$member": null
}
},
"LicenseSpecifications": {
"base": null,
"refs": {
"ListLicenseSpecificationsForResourceResponse$LicenseSpecifications": " License configurations associated with a resource. ",
"UpdateLicenseSpecificationsForResourceRequest$AddLicenseSpecifications": " ARNs of the license configurations to add. ",
"UpdateLicenseSpecificationsForResourceRequest$RemoveLicenseSpecifications": " ARNs of the license configurations to remove. "
}
},
"LicenseStatus": {
"base": null,
"refs": {
"CreateLicenseResponse$Status": " License status. ",
"CreateLicenseVersionRequest$Status": " License status. ",
"CreateLicenseVersionResponse$Status": " License status. ",
"GrantedLicense$Status": " Granted license status. ",
"License$Status": " License status. "
}
},
"LicenseUsage": {

"base": " Describes the entitlement usage associated with a license. ",
"refs": {
"GetLicenseUsageResponse$LicenseUsage": " License usage details. "
}
},
"LicenseUsageException": {
"base": " You do not have enough licenses available to support a new resource launch. ",
"refs": {
}
},
"ListAssociationsForLicenseConfigurationRequest": {
"base": null,
"refs": {
}
},
"ListAssociationsForLicenseConfigurationResponse": {
"base": null,
"refs": {
}
},
"ListDistributedGrantsRequest": {
"base": null,
"refs": {
}
},
"ListDistributedGrantsResponse":
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"base": null,
"refs": {
}
},
"ListFailuresForLicenseConfigurationOperationsRequest": {
"base": null,
"refs": {
}
},
"ListFailuresForLicenseConfigurationOperationsResponse": {
"base": null,
"refs": {
}
},
"ListLicenseConfigurationsRequest": {
"base": null,
"refs": {
}
},
"ListLicenseConfigurationsResponse": {
"base": null,

"refs": {
}
},
"ListLicenseConversionTasksRequest": {
"base": null,
"refs": {
}
},
"ListLicenseConversionTasksResponse": {
"base": null,
"refs": {
}
},
"ListLicenseManagerReportGeneratorsRequest": {
"base": null,
"refs": {
}
},
"ListLicenseManagerReportGeneratorsResponse": {
"base": null,
"refs": {
}
},
"ListLicenseSpecificationsForResourceRequest": {
"base": null,
"refs": {
}
},
"ListLicenseSpecificationsForResourceResponse":
{
"base": null,
"refs": {
}
},
"ListLicenseVersionsRequest": {
"base": null,
"refs": {
}
},
"ListLicenseVersionsResponse": {
"base": null,
"refs": {
}
},
"ListLicensesRequest": {
"base": null,
"refs": {
}

```
  },
  "ListLicensesResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListReceivedGrantsForOrganizationRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListReceivedGrantsForOrganizationResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListReceivedGrantsRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListReceivedGrantsResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListReceivedLicensesForOrganizationRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListReceivedLicensesForOrganizationResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListReceivedLicensesRequest":
{
    "base": null,
    "refs": {
    }
  },
  "ListReceivedLicensesResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListResourceInventoryRequest": {
```

```
    "base": null,
    "refs": {
    }
  },
  "ListResourceInventoryResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListTagsForResourceRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListTagsForResourceResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListTokensRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListTokensResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListUsageForLicenseConfigurationRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListUsageForLicenseConfigurationResponse": {
    "base": null,
    "refs": {
    }
  },
  "Location": {
    "base": null,
    "refs": {
      "RedirectException$Location": null
    }
  },
  "Long":
 {
    "base": null,
```

"refs": {
"Entitlement$MaxCount": " Maximum entitlement count. Use if the unit is not None. "
}
},
"ManagedResourceSummary": {
"base": " Summary information about a managed resource. ",
"refs": {
"ManagedResourceSummaryList$member": null
}
},
"ManagedResourceSummaryList": {
"base": null,
"refs": {
"GetLicenseConfigurationResponse$ManagedResourceSummaryList": " Summaries of the managed resources. ",
"LicenseConfiguration$ManagedResourceSummaryList": " Summaries for managed resources. "
}
},
"MaxSize100": {
"base": null,
"refs": {
"ListDistributedGrantsRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListLicenseManagerReportGeneratorsRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListLicenseVersionsRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListLicensesRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListReceivedGrantsForOrganizationRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListReceivedGrantsRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListReceivedLicensesForOrganizationRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListReceivedLicensesRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListTokensRequest$MaxResults": " Maximum number of results to return in a single call. "
}
},
"MaxSize3StringList": {
"base": null,
"refs": {
"CreateTokenRequest$TokenProperties": " Data specified by the caller to be included in the JWT token. The data is mapped to the amr claim of the JWT token. ",

"GetAccessTokenRequest$TokenProperties": " Token properties to validate against those present in the JWT token. ",
"TokenData$TokenProperties": " Data specified by the caller. "
}
},
"Message": {

"base": null,
"refs": {
"AccessDeniedException$Message": null,
"AuthorizationException$Message": null,
"ConflictException$Message": null,
"EntitlementNotAllowedException$Message": null,
"FailedDependencyException$Message": null,
"FilterLimitExceededException$Message": null,
"InvalidParameterValueException$Message": null,
"InvalidResourceStateException$Message": null,
"LicenseUsageException$Message": null,
"NoEntitlementsAllowedException$Message": null,
"RateLimitExceededException$Message": null,
"RedirectException$Message": null,
"ResourceLimitExceededException$Message": null,
"ResourceNotFoundException$Message": null,
"ServerInternalException$Message":
null,
"UnsupportedDigitalSignatureMethodException$Message": null,
"ValidationException$Message": null
}
},
"Metadata": {
"base": " Describes key/value pairs. ",
"refs": {
"MetadataList$member": null
}
},
"MetadataList": {
"base": null,
"refs": {
"CheckoutBorrowLicenseRequest$CheckoutMetadata": " Information about constraints. ",
"CheckoutBorrowLicenseResponse$CheckoutMetadata": " Information about constraints. ",
"CreateLicenseRequest$LicenseMetadata": " Information about the license. ",
"CreateLicenseVersionRequest$LicenseMetadata": " Information about the license. ",
"GrantedLicense$LicenseMetadata": " Granted license metadata. ",
"License$LicenseMetadata": " License metadata. ",
"LicenseOperationFailure$MetadataList": " Reserved. "
}
},
"NoEntitlementsAllowedException": {

"base": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"refs": {
}
},
"Options": {
"base": " The options you can specify when you create a new version of a grant, such as activation override

behavior. For more information, see Granted licenses in License Manager in the License Manager User Guide. ",
    "refs": {
      "CreateGrantVersionRequest$Options": " The options specified for the grant. ",
      "Grant$Options": " The options specified for the grant. "
    }
  },
  "OrganizationConfiguration": {
    "base": " Configuration information for Organizations. ",
    "refs": {
      "GetServiceSettingsResponse$OrganizationConfiguration": " Indicates whether Organizations is integrated with License Manager for cross-account discovery. ",
      "UpdateServiceSettingsRequest$OrganizationConfiguration": " Enables integration with Organizations for cross-account discovery. "
    }
  },
  "PrincipalArnList": {
    "base": null,
    "refs": {
      "CreateGrantRequest$Principals": " The grant principals. You can specify one of the following as an Amazon Resource Name (ARN): <ul> An Amazon Web Services account, which includes only the account specified.   An organizational unit (OU), which includes all accounts in the OU.   An organization, which will include all accounts across your organization. "
    }
  },
  "ProductInformation": {
    "base": " Describes product information for a license configuration. ",
    "refs": {
      "ProductInformationList$member": null
    }
  },
  "ProductInformationFilter": {
    "base": " Describes product information filters. ",
    "refs": {
      "ProductInformationFilterList$member": null
    }
  },
  "ProductInformationFilterList": {
    "base": null,
    "refs": {
      "ProductInformation$ProductInformationFilterList": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for

<code>ProductInformationFilterComparator</code>. The following filters and are supported when the resource type is <code>SSM_MANAGED</code>: <ul> <code>Application Name</code> - The name of the application. Logical operator is <code>EQUALS</code>.   <code>Application Publisher</code> - The publisher of the application. Logical operator is <code>EQUALS</code>.   <code>Application Version</code> - The version of the application. Logical operator is <code>EQUALS</code>.   <code>Platform Name</code> - The name of the platform. Logical operator is <code>EQUALS</code>.   <code>Platform Type</code> - The platform type. Logical operator is <code>EQUALS</code>.   <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.   <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>.   <code>License Included</code> - The type of license included. Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>. Possible values are: <code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-web</code> | <code>windows-server-datacenter</code>.   The following filters and logical operators are supported when the resource type is <code>RDS</code>: <ul> <code>Engine Edition</code> - The edition of the database engine. Logical operator is <code>EQUALS</code>. Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>.   <code>License Pack</code> - The license pack. Logical operator is <code>EQUALS</code>. Possible values are: <code>data guard</code> | <code>diagnostic pack sqlt</code> | <code>tuning pack sqlt</code> | <code>ols</code> | <code>olap</code>. "
    }
  },
  "ProductInformationList": {
    "base": null,
    "refs": {
      "CreateLicenseConfigurationRequest$ProductInformationList":
 " Product information. ",
      "GetLicenseConfigurationResponse$ProductInformationList": " Product information. ",
      "LicenseConfiguration$ProductInformationList": " Product information. ",
      "UpdateLicenseConfigurationRequest$ProductInformationList": " New product information. "
    }
  },
  "ProvisionalConfiguration": {
    "base": " Details about a provisional configuration. ",
    "refs": {
      "ConsumptionConfiguration$ProvisionalConfiguration": " Details about a provisional configuration. "
    }
  },
  "RateLimitExceededException": {
    "base": " Too many requests have been submitted. Try again after a brief wait. ",
    "refs": {
    }
  },
  "ReceivedMetadata": {
    "base": " Metadata associated with received licenses and grants. ",

"refs": {
"GrantedLicense$ReceivedMetadata": " Granted license received metadata. "
}
},
"ReceivedStatus": {
"base": null,
"refs": {
"ReceivedMetadata$ReceivedStatus": " Received status. "
}
},
"RedirectException": {
"base": " This is not the correct Region for the resource. Try again. ",
"refs": {
}
},
"RejectGrantRequest": {
"base": null,
"refs": {
}
},
"RejectGrantResponse": {
"base": null,
"refs": {
}
},
"RenewType": {
"base": null,
"refs": {
"ConsumptionConfiguration$RenewType": " Renewal frequency. "
}
},
"ReportContext": {
"base": " Details of the license configuration that this generator reports on. ",
"refs": {
"CreateLicenseManagerReportGeneratorRequest$ReportContext": " Defines the type of license configuration the report generator tracks. ",
"ReportGenerator$ReportContext": " License configuration type for this generator. ",
"UpdateLicenseManagerReportGeneratorRequest$ReportContext": " The report context. "
}
},
"ReportFrequency": {
"base": " Details about how frequently reports are generated. ",
"refs": {
"CreateLicenseManagerReportGeneratorRequest$ReportFrequency": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"ReportGenerator$ReportFrequency": " Details about how frequently reports are generated. ",
"UpdateLicenseManagerReportGeneratorRequest$ReportFrequency": " Frequency by which reports are

generated. "
    }
  },
  "ReportFrequencyType": {
    "base": null,
    "refs": {
      "ReportFrequency$period": " Time period between each report. The period can be daily, weekly, or monthly. "
    }
  },
  "ReportGenerator": {
    "base": " Describe the details of a report generator. ",
    "refs": {
      "GetLicenseManagerReportGeneratorResponse$ReportGenerator": " A report generator that creates periodic reports about your license configurations. ",
      "ReportGeneratorList$member": null
    }
  },
  "ReportGeneratorList": {
    "base": null,
    "refs": {
      "ListLicenseManagerReportGeneratorsResponse$ReportGenerators": " A report generator that creates periodic reports about your license configurations. "
    }
  },
  "ReportGeneratorName": {
    "base": null,
    "refs": {
      "CreateLicenseManagerReportGeneratorRequest$ReportGeneratorName": " Name of the report generator. ",
      "UpdateLicenseManagerReportGeneratorRequest$ReportGeneratorName": " Name of the report generator. "
    }
  },
  "ReportType": {
    "base": null,
    "refs": {
      "ReportTypeList$member": null
    }
  },
  "ReportTypeList": {
    "base": null,
    "refs": {
      "CreateLicenseManagerReportGeneratorRequest$Type": " Type of reports to generate. The following report types an be generated: <ul> License configuration report - Reports the number and details of consumed licenses for a license configuration.   Resource report - Reports the tracked licenses and resource consumption for a license configuration. ",

"ReportGenerator$ReportType": " Type of reports that are generated. ",
"UpdateLicenseManagerReportGeneratorRequest$Type": " Type of reports to generate. The following report types are supported: <ul> License configuration report - Reports the number and details of consumed licenses for a license configuration.   Resource report - Reports the tracked licenses and resource consumption for a license configuration. "
}
},
"ResourceInventory": {
"base": " Details about a resource. ",
"refs": {
"ResourceInventoryList$member": null
}
},
"ResourceInventoryList": {
"base": null,
"refs": {
"ListResourceInventoryResponse$ResourceInventoryList": " Information about the resources. "
}
},
"ResourceLimitExceededException": {
"base": " Your resource limits have been exceeded. ",
"refs": {
}
},
"ResourceNotFoundException": {
"base": " The resource cannot be found. ",
"refs": {
}
},
"ResourceType": {
"base": null,
"refs": {
"ConsumedLicenseSummary$ResourceType": " Resource type of the resource consuming a license. ",
"LicenseConfigurationAssociation$ResourceType": " Type of server resource. ",
"LicenseConfigurationUsage$ResourceType": " Type of resource. ",
"LicenseOperationFailure$ResourceType": " Resource type. ",
"ManagedResourceSummary$ResourceType": " Type of resource associated with a license. ",
"ResourceInventory$ResourceType": " Type of resource. "
}
},
"S3Location": {
"base":
" Details of the S3 bucket that report generator reports are published to. ",
"refs": {
"ReportGenerator$S3Location": " Details of the S3 bucket that report generator reports are published to. "
}
},

"ServerInternalException": {
"base": " The server experienced an internal error. Try again. ",
"refs": {
}
},
"SignedToken": {
"base": null,
"refs": {
"CheckoutBorrowLicenseResponse$SignedToken": " Signed token. ",
"CheckoutLicenseResponse$SignedToken": " Signed token. "
}
},
"StatusReasonMessage": {
"base": null,
"refs": {
"CreateGrantVersionRequest$StatusReason": " Grant status reason. ",
"DeleteGrantRequest$StatusReason": " The Status reason for the delete request. ",
"Grant$StatusReason": " Grant status reason. ",
"ReceivedMetadata$ReceivedStatusReason": " Received status reason. "
}
},

"String": {
"base": null,
"refs": {
"AcceptGrantResponse$Version": " Grant version. ",
"CheckInLicenseRequest$LicenseConsumptionToken": " License consumption token. ",
"CheckInLicenseRequest$Beneficiary": " License beneficiary. ",
"CheckoutBorrowLicenseRequest$NodeId": " Node ID. ",
"CheckoutBorrowLicenseResponse$LicenseConsumptionToken": " License consumption token. ",
"CheckoutBorrowLicenseResponse$NodeId": " Node ID. ",
"CheckoutLicenseRequest$ProductSKU": " Product SKU. ",
"CheckoutLicenseRequest$KeyFingerprint": " Key fingerprint identifying the license. ",
"CheckoutLicenseRequest$Beneficiary": " License beneficiary. ",
"CheckoutLicenseRequest$NodeId": " Node ID. ",
"CheckoutLicenseResponse$LicenseConsumptionToken": " License consumption token. ",
"CheckoutLicenseResponse$NodeId": " Node ID. ",
"CheckoutLicenseResponse$LicenseArn":
" Amazon Resource Name (ARN) of the checkout license. ",
"CreateGrantRequest$GrantName": " Grant name. ",
"CreateGrantRequest$HomeRegion": " Home Region of the grant. ",
"CreateGrantResponse$Version": " Grant version. ",
"CreateGrantVersionRequest$GrantName": " Grant name. ",
"CreateGrantVersionRequest$SourceVersion": " Current version of the grant. ",
"CreateGrantVersionResponse$Version": " New version of the grant. ",
"CreateLicenseConfigurationRequest$Name": " Name of the license configuration. ",
"CreateLicenseConfigurationRequest$Description": " Description of the license configuration. ",
"CreateLicenseConfigurationResponse$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the

license configuration. ",
"CreateLicenseManagerReportGeneratorRequest$Description": " Description of the report generator. ",
"CreateLicenseManagerReportGeneratorResponse$LicenseManagerReportGeneratorArn": " The Amazon Resource Name (ARN) of the new report generator. ",
"CreateLicenseRequest$LicenseName": " License name. ",
"CreateLicenseRequest$ProductName": " Product name. ",
"CreateLicenseRequest$ProductSKU": " Product SKU. ",
"CreateLicenseRequest$HomeRegion": " Home Region for the license. ",
"CreateLicenseRequest$Beneficiary": " License beneficiary. ",
"CreateLicenseResponse$Version": " License version. ",
"CreateLicenseVersionRequest$LicenseName": " License name. ",
"CreateLicenseVersionRequest$ProductName": " Product name. ",
"CreateLicenseVersionRequest$HomeRegion": " Home Region of the license. ",
"CreateLicenseVersionRequest$SourceVersion": " Current version of the license. ",
"CreateLicenseVersionResponse$Version": " New version of the license. ",
"CreateTokenResponse$TokenId": " Token ID. ",
"DeleteGrantRequest$Version": " Current version of the grant. ",
"DeleteGrantResponse$Version": " Grant version. ",
"DeleteLicenseConfigurationRequest$LicenseConfigurationArn": " ID of the license configuration. ",
"DeleteLicenseManagerReportGeneratorRequest$LicenseManagerReportGeneratorArn": " Amazon Resource Name (ARN) of the report generator to be deleted. ",
"DeleteLicenseRequest$SourceVersion": " Current version of the license. ",
"DeleteTokenRequest$TokenId": " Token ID. ",
"Entitlement$Name": " Entitlement name. ",
"Entitlement$Value": " Entitlement resource. Use only if the unit is None. ",
"EntitlementData$Name": " Entitlement data name. ",
"EntitlementData$Value": " Entitlement data value. ",
"EntitlementUsage$Name": " Entitlement usage name. ",
"EntitlementUsage$ConsumedValue": " Resource usage consumed. ",
"EntitlementUsage$MaxCount": " Maximum entitlement usage count. ",
"ExtendLicenseConsumptionRequest$LicenseConsumptionToken": " License consumption token. ",
"ExtendLicenseConsumptionResponse$LicenseConsumptionToken": " License consumption token. ",
"FailedDependencyException$ErrorCode": null,
"GetGrantRequest$Version": " Grant version. ",
"GetLicenseConfigurationRequest$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the license configuration. ",
"GetLicenseConfigurationResponse$LicenseConfigurationId": " Unique ID for the license configuration. ",
"GetLicenseConfigurationResponse$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the license configuration. ",
"GetLicenseConfigurationResponse$Name": " Name of the license configuration. ",
"GetLicenseConfigurationResponse$Description": " Description of the license configuration. ",
"GetLicenseConfigurationResponse$Status": " License configuration status. ",
"GetLicenseConfigurationResponse$OwnerAccountId": " Account ID of the owner of the license configuration. ",

"GetLicenseConversionTaskResponse$ResourceArn": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. ",
"GetLicenseConversionTaskResponse$StatusMessage": " The status message for the conversion task. ",
"GetLicenseManagerReportGeneratorRequest$LicenseManagerReportGeneratorArn": " Amazon Resource Name (ARN) of the report generator. ",
"GetLicenseRequest$Version": " License version. ",
"GetServiceSettingsResponse$S3BucketArn": " Regional S3 bucket path for storing reports, license trail event data, discovery data, and so on. ",
"GetServiceSettingsResponse$SnsTopicArn": " SNS topic configured to receive notifications from License Manager. ",
"GetServiceSettingsResponse$LicenseManagerResourceShareArn": " Amazon Resource Name (ARN) of the resource share. The License Manager management account provides member accounts with access to this share. ",
"Grant$GrantName": " Grant name. ",
"Grant$HomeRegion": " Home Region of the grant. ",
"Grant$Version": " Grant version. ",
"GrantedLicense$LicenseName": " License name. ",
"GrantedLicense$ProductName": " Product name. ",
"GrantedLicense$ProductSKU": " Product SKU. ",
"GrantedLicense$HomeRegion": " Home Region of the granted license. ",
"GrantedLicense$Beneficiary": " Granted license beneficiary. ",
"GrantedLicense$Version": " Version of the granted license. ",
"InventoryFilter$Name": " Name of the filter. ",
"InventoryFilter$Value": " Value of the filter. ",
"Issuer$Name": " Issuer name. ",
"Issuer$SignKey":
" Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm. ",
"IssuerDetails$Name": " Issuer name. ",
"IssuerDetails$SignKey": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm. ",
"IssuerDetails$KeyFingerprint": " Issuer key fingerprint. ",
"License$LicenseName": " License name. ",
"License$ProductName": " Product name. ",
"License$ProductSKU": " Product SKU. ",
"License$HomeRegion": " Home Region of the license. ",
"License$Beneficiary": " License beneficiary. ",
"License$Version": " License version. ",
"LicenseConfiguration$LicenseConfigurationId": " Unique ID of the license configuration. ",
"LicenseConfiguration$LicenseConfigurationArn":
" Amazon Resource Name (ARN) of the license configuration. ",
"LicenseConfiguration$Name": " Name of the license configuration. ",
"LicenseConfiguration$Description": " Description of the license configuration. ",
"LicenseConfiguration$Status": " Status of the license configuration. ",
"LicenseConfiguration$OwnerAccountId": " Account ID of the license configuration's owner. ",
"LicenseConfigurationAssociation$ResourceArn": " Amazon Resource Name (ARN) of the resource. ",
"LicenseConfigurationAssociation$ResourceOwnerId": " ID of the Amazon Web Services account that owns the resource consuming licenses. ",

"LicenseConfigurationAssociation$AmiAssociationScope": " Scope of AMI associations. The possible value is <code>cross-account</code>. ",
"LicenseConfigurationUsage$ResourceArn": " Amazon Resource Name (ARN) of the resource. ",
"LicenseConfigurationUsage$ResourceStatus":
" Status of the resource. ",
"LicenseConfigurationUsage$ResourceOwnerId": " ID of the account that owns the resource. ",
"LicenseConversionTask$ResourceArn": " The Amazon Resource Name (ARN) of the resource associated with the license type conversion task. ",
"LicenseConversionTask$StatusMessage": " The status message for the conversion task. ",
"LicenseOperationFailure$ResourceArn": " Amazon Resource Name (ARN) of the resource. ",
"LicenseOperationFailure$ErrorMessage": " Error message. ",
"LicenseOperationFailure$OperationName": " Name of the operation. ",
"LicenseOperationFailure$ResourceOwnerId": " ID of the Amazon Web Services account that owns the resource. ",
"LicenseOperationFailure$OperationRequestedBy": " The requester is \"License Manager Automated Discovery\". ",
"LicenseSpecification$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the license configuration. ",
"LicenseSpecification$AmiAssociationScope": " Scope of AMI associations. The possible value is <code>cross-account</code>. ",
"ListAssociationsForLicenseConfigurationRequest$LicenseConfigurationArn": " Amazon Resource Name (ARN) of a license configuration. ",
"ListAssociationsForLicenseConfigurationRequest$NextToken": " Token for the next set of results. ",
"ListAssociationsForLicenseConfigurationResponse$NextToken": " Token for the next set of results. ",
"ListDistributedGrantsRequest$NextToken": " Token for the next set of results. ",
"ListDistributedGrantsResponse$NextToken": " Token for the next set of results. ",
"ListFailuresForLicenseConfigurationOperationsRequest$LicenseConfigurationArn": " Amazon Resource Name of the license configuration. ",
"ListFailuresForLicenseConfigurationOperationsRequest$NextToken": " Token for the next set of results. ",

"ListFailuresForLicenseConfigurationOperationsResponse$NextToken": " Token for the next set of results. ",
"ListLicenseConfigurationsRequest$NextToken": " Token for the next set of results. ",
"ListLicenseConfigurationsResponse$NextToken": " Token for the next set of results. ",
"ListLicenseConversionTasksRequest$NextToken": " Token for the next set of results. ",
"ListLicenseConversionTasksResponse$NextToken": " Token for the next set of results. ",
"ListLicenseManagerReportGeneratorsRequest$NextToken": " Token for the next set of results. ",
"ListLicenseManagerReportGeneratorsResponse$NextToken": " Token for the next set of results. ",
"ListLicenseSpecificationsForResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of a resource that has an associated license configuration. ",
"ListLicenseSpecificationsForResourceRequest$NextToken": " Token for the next set of results. ",
"ListLicenseSpecificationsForResourceResponse$NextToken": " Token for the next set of results. ",
"ListLicenseVersionsRequest$NextToken": " Token for the next set of results. ",
"ListLicenseVersionsResponse$NextToken": " Token for the next set of results. ",
"ListLicensesRequest$NextToken": " Token for the next set of results. ",
"ListLicensesResponse$NextToken": " Token for the next set of results. ",
"ListReceivedGrantsForOrganizationRequest$NextToken": " Token for the next set of results. ",

"ListReceivedGrantsForOrganizationResponse$NextToken": " Token for the next set of results. ",
"ListReceivedGrantsRequest$NextToken": " Token for the next set of results. ",
"ListReceivedGrantsResponse$NextToken": " Token for the next set of results. ",
"ListReceivedLicensesForOrganizationRequest$NextToken": " Token for the next set of results. ",
"ListReceivedLicensesForOrganizationResponse$NextToken":
" Token for the next set of results. ",
"ListReceivedLicensesRequest$NextToken": " Token for the next set of results. ",
"ListReceivedLicensesResponse$NextToken": " Token for the next set of results. ",
"ListResourceInventoryRequest$NextToken": " Token for the next set of results. ",
"ListResourceInventoryResponse$NextToken": " Token for the next set of results. ",
"ListTagsForResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of the license configuration. ",
"ListTokensRequest$NextToken": " Token for the next set of results. ",
"ListTokensResponse$NextToken": " Token for the next set of results. ",
"ListUsageForLicenseConfigurationRequest$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the license configuration. ",
"ListUsageForLicenseConfigurationRequest$NextToken": " Token for the next set of results. ",
"ListUsageForLicenseConfigurationResponse$NextToken": " Token for the next set of results. ",
"MaxSize3StringList$member": null,
"Metadata$Name": " The key name. ",
"Metadata$Value": " The value. ",
"ProductInformation$ResourceType": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"ProductInformationFilter$ProductInformationFilterName": " Filter name. ",
"ProductInformationFilter$ProductInformationFilterComparator": " Logical operator. ",
"RejectGrantResponse$Version": " Grant version. ",
"ReportGenerator$ReportGeneratorName": " Name of the report generator. ",
"ReportGenerator$LicenseManagerReportGeneratorArn": " Amazon Resource Name (ARN) of the report generator. ",
"ReportGenerator$LastRunStatus": " Status of the last report generation attempt. ",
"ReportGenerator$LastRunFailureReason": " Failure
message for the last report generation attempt. ",
"ReportGenerator$LastReportGenerationTime": " Time the last report was generated at. ",
"ReportGenerator$ReportCreatorAccount": " The Amazon Web Services account ID used to create the report generator. ",
"ReportGenerator$Description": " Description of the report generator. ",
"ReportGenerator$CreateTime": " Time the report was created. ",
"ResourceInventory$ResourceId": " ID of the resource. ",
"ResourceInventory$ResourceArn": " Amazon Resource Name (ARN) of the resource. ",
"ResourceInventory$Platform": " Platform of the resource. ",
"ResourceInventory$PlatformVersion": " Platform version of the resource in the inventory. ",
"ResourceInventory$ResourceOwningAccountId": " ID of the account that owns the resource. ",
"S3Location$bucket": " Name of the S3 bucket reports are published to. ",

"S3Location$keyPrefix": " Prefix of the S3 bucket reports are published to. ",
"StringList$member": null,
"Tag$Key": " Tag key. ",
"Tag$Value": " Tag value. ",

"TagKeyList$member": null,
"TagResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of the license configuration. ",
"TokenData$TokenId": " Token ID. ",
"TokenData$TokenType": " Type of token generated. The supported value is <code>REFRESH_TOKEN</code>. ",
"TokenData$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"TokenData$Status": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. ",
"UntagResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of the license configuration. ",
"UpdateLicenseConfigurationRequest$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the license configuration. ",
"UpdateLicenseConfigurationRequest$Name": " New name of the license configuration. ",
"UpdateLicenseConfigurationRequest$Description": " New description of the license configuration. ",
"UpdateLicenseManagerReportGeneratorRequest$LicenseManagerReportGeneratorArn": " Amazon Resource Name (ARN) of the report generator to update. ",
"UpdateLicenseManagerReportGeneratorRequest$Description": " Description of the report generator. ",
"UpdateLicenseSpecificationsForResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of the Amazon Web Services resource. ",
"UpdateServiceSettingsRequest$S3BucketArn": " Amazon Resource Name (ARN) of the Amazon S3 bucket where the License Manager information is stored. ",
"UpdateServiceSettingsRequest$SnsTopicArn": " Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
}
},
"StringList": {
"base": null,
"refs": {
"CreateLicenseConfigurationRequest$LicenseRules": " License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules vary by dimension, as follows.   <code>Cores</code> dimension: <code>allowedTenancy</code> | <code>licenseAffinityToHost</code> | <code>maximumCores</code> | <code>minimumCores</code>   <code>Instances</code> dimension: <code>allowedTenancy</code> | <code>maximumCores</code> | <code>minimumCores</code> | <code>maximumSockets</code> | <code>minimumSockets</code> | <code>maximumVcpus</code> | <code>minimumVcpus</code>   <code>Sockets</code> dimension: <code>allowedTenancy</code> | <code>licenseAffinityToHost</code> | <code>maximumSockets</code> | <code>minimumSockets</code>   <code>vCPUs</code> dimension: <code>allowedTenancy</code> | <code>honorVcpuOptimization</code> | <code>maximumVcpus</code> | <code>minimumVcpus</code>   The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are <code>True</code> and <code>False</code>. ",
"GetLicenseConfigurationResponse$LicenseRules": " License rules. ",
"LicenseConfiguration$LicenseRules": " License rules. ",
"ListLicenseConfigurationsRequest$LicenseConfigurationArns": " Amazon Resource Names (ARN) of the license configurations. ",

"ListTokensRequest$TokenIds": " Token IDs. ",
"ProductInformationFilter$ProductInformationFilterValue": " Filter value. ",
"UpdateLicenseConfigurationRequest$LicenseRules": " New license rule. The only rule that you can add after you create a license configuration is licenseAffinityToHost. "
}
},
"Tag": {
"base": " Details about a tag for a license configuration. ",
"refs": {
"TagList$member": null
}
},
"TagKeyList": {
"base": null,
"refs": {
"UntagResourceRequest$TagKeys": " Keys identifying the tags to remove. "
}
},
"TagList": {
"base": null,
"refs": {
"CreateLicenseConfigurationRequest$Tags": " Tags to add to the license configuration. ",
"CreateLicenseManagerReportGeneratorRequest$Tags": " Tags to add to the report generator. ",
"GetLicenseConfigurationResponse$Tags": " Tags for the license configuration. ",
"ListTagsForResourceResponse$Tags": " Information about the tags. ",
"ReportGenerator$Tags": " Tags associated with the report generator. ",
"TagResourceRequest$Tags": " One or more tags. "
}
},
"TagResourceRequest": {
"base": null,
"refs": {
}
},
"TagResourceResponse": {
"base": null,
"refs": {

}
},
"TokenData": {
"base": " Describes a token. ",
"refs": {
"TokenList$member": null
}
},
"TokenList": {

"base": null,
"refs": {
"ListTokensResponse$Tokens": " Received token details. "
}
},
"TokenString": {
"base": null,
"refs": {
"CreateTokenResponse$Token": " Refresh token, encoded as a JWT token. ",
"GetAccessTokenRequest$Token": " Refresh token, encoded as a JWT token. ",
"GetAccessTokenResponse$AccessToken": " Temporary access token. "
}
},
"TokenType": {
"base": null,
"refs": {
"CreateTokenResponse$TokenType": " Token type. "
}
},
"UnsupportedDigitalSignatureMethodException": {
"base": " The digital signature method is unsupported. Try your request again. ",
"refs": {
}
},
"UntagResourceRequest": {
"base": null,
"refs": {
}
},
"UntagResourceResponse":
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"base": null,
"refs": {
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"UpdateLicenseConfigurationRequest": {
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"refs": {
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},
"UpdateLicenseConfigurationResponse": {
"base": null,
"refs": {
}
},
"UpdateLicenseManagerReportGeneratorRequest": {
"base": null,
"refs": {

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    }
  },
  "UpdateLicenseManagerReportGeneratorResponse": {
    "base": null,
    "refs": {
    }
  },
  "UpdateLicenseSpecificationsForResourceRequest": {
    "base": null,
    "refs": {
    }
  },
  "UpdateLicenseSpecificationsForResourceResponse": {
    "base": null,
    "refs": {
    }
  },
  "UpdateServiceSettingsRequest": {
    "base": null,
    "refs": {
    }
  },
  "UpdateServiceSettingsResponse": {
    "base": null,
    "refs": {
    }
  },
  "UsageOperation": {
    "base": null,
    "refs": {
      "LicenseConversionContext$UsageOperation": "<p>The Usage operation value
 that corresponds to the license type you are converting your resource from. For more information about which
platforms correspond to which usage operation values see <a
href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-fields.html#billing-info\">Sample
data: usage operation by platform </a> </p>"
    }
  },
  "ValidationException": {
    "base": "<p>The provided input is not valid. Try your request again.</p>",
    "refs": {
    }
  }
 }
}
{
  "testCases": [
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"expect": {
"endpoint": {
"url": "https://license-manager.af-south-1.amazonaws.com"
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},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "af-south-1"
}
},
{
"documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-east-1.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "ap-east-1"
}
},
{
"documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",

"expect": {
"endpoint": {
"url": "https://license-manager.ap-northeast-1.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "ap-northeast-1"
}
},
{
"documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-northeast-2.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,

"Region": "ap-northeast-2"
}
},
{
"documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-northeast-3.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "ap-northeast-3"
}
},
{
"documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-south-1.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "ap-south-1"
}
},
{
"documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-southeast-1.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack":
false,
"Region": "ap-southeast-1"
}
},
{
"documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.ap-southeast-2.amazonaws.com"

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            }
        },
        "params": {
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            "UseDualStack": false,
            "Region": "ap-southeast-2"
        }
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    {
        "documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.ap-southeast-3.amazonaws.com"
            }
        },
        "params": {
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            "UseDualStack": false,
            "Region": "ap-southeast-3"
        }
    },
    {
        "documentation":
"For region ca-central-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.ca-central-1.amazonaws.com"
            }
        },
        "params": {
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            "UseDualStack": false,
            "Region": "ca-central-1"
        }
    },
    {
        "documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
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            "endpoint": {
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            }
        },
        "params": {
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            "UseDualStack": false,
            "Region": "eu-central-1"
        }
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{
"documentation": "For region eu-north-1 with FIPS disabled and DualStack disabled",
"expect": {
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}
},
"params": {
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"UseDualStack": false,
"Region": "eu-north-1"
}
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{
"documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
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}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "eu-south-1"
}
},
{
"documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-west-1.amazonaws.com"
}
},
"params":
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"UseFIPS": false,
"UseDualStack": false,
"Region": "eu-west-1"
}
},
{
"documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.eu-west-2.amazonaws.com"
}
},

"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "eu-west-2"
}
},
{
"documentation": "For region eu-west-3 with FIPS disabled and DualStack disabled",
"expect": {
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"url": "https://license-manager.eu-west-3.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "eu-west-3"
}

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{
"documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.me-south-1.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "me-south-1"
}
},
{
"documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.sa-east-1.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "sa-east-1"
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",

"expect": {

"endpoint": {
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},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "us-east-1"
}
},
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {
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"url": "https://license-manager-fips.us-east-1.amazonaws.com"
}
},
"params": {
"UseFIPS": true,
"UseDualStack": false,
"Region": "us-east-1"
}
},
{
"documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
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}
},

"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "us-east-2"
}
},
{
"documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
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}
},
"params": {
"UseFIPS": true,

"UseDualStack": false,
"Region": "us-east-2"
}
},
{
"documentation": "For region us-west-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-west-1.amazonaws.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "us-west-1"

}
},
{
"documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
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},
"params": {
"UseFIPS": true,
"UseDualStack": false,
"Region": "us-west-1"
}
},
{
"documentation": "For region us-west-2 with FIPS disabled and DualStack disabled",
"expect": {
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"url": "https://license-manager.us-west-2.amazonaws.com"
}
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"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "us-west-2"
}
},
{
"documentation": "For region us-west-2 with FIPS enabled and DualStack disabled",
"expect":

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            }
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            "UseDualStack": false,
            "Region": "us-west-2"
        }
    },
    {
        "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-fips.us-east-1.api.aws"
            }
        },
        "params": {
            "UseFIPS": true,
            "UseDualStack": true,
            "Region": "us-east-1"
        }
    },
    {
        "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.us-east-1.api.aws"
            }
        },

     "params": {
            "UseFIPS": false,
            "UseDualStack": true,
            "Region": "us-east-1"
        }
    },
    {
        "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.cn-north-1.amazonaws.com.cn"
            }
        },
        "params": {
            "UseFIPS": false,
            "UseDualStack": false,
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"Region": "cn-north-1"
}
},
{
"documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Region": "cn-northwest-1"
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"UseFIPS": true,
"UseDualStack": true,
"Region": "cn-north-1"
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"UseFIPS": true,
"UseDualStack": false,
"Region": "cn-north-1"
}
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{
"documentation": "For region cn-north-1 with FIPS disabled
and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"

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        }
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    "params": {
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        "UseDualStack": true,
        "Region": "cn-north-1"
    }
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{
    "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.us-gov-east-1.amazonaws.com"
        }
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "us-gov-east-1"
    }
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    "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
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        }
    },
    "params": {
        "UseFIPS": true,
        "UseDualStack": false,
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    "expect": {
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        "type": "String"
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        "type": "Boolean"
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        "default": false,
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"output_token": "NextToken",
"limit_key": "MaxResults",
"result_key": "InstanceUserSummaries"
}

}
}
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"protocol":"rest-json",
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"signatureVersion":"v4",
"signingName":"license-manager-user-subscriptions",
"uid":"license-manager-user-subscriptions-2018-05-10"
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    "exception":true
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    "members":{
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    }
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      "InstanceId",
      "Username"
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      "Username":{"shape":"String"}
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"fault":true
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"Product"
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"Product":{"shape":"String"}
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"InstanceId",
"Username"
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    "Value":{"shape":"String"}
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    "Status":{"shape":"String"}
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"Status":{"shape":"String"},
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"Domain":{"shape":"String"},
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"Status":{"shape":"String"},
"StatusMessage":{"shape":"String"},
"Username":{"shape":"String"}
}
},
"InstanceUserSummaryList":{
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  "members":{
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"Product":{"shape":"String"},
"Username":{"shape":"String"}
}
},
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}
},
"StopProductSubscriptionRequest":{
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"Product",
"Username"
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"members":{
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"IdentityProvider":{"shape":"IdentityProvider"},
"Product":{"shape":"String"},
"Username":{"shape":"String"}
}
},

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"members":{
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"exception":true
}
}
}

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"output":{"shape":"ListTagsForResourceResponse"},
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{"shape":"ValidationException"}
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"responseCode":200
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  "box":true
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  "required":["SubscriptionProviderArn"],
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  }
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"DeregisterSubscriptionProviderResponse":{
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  "members":{
  }
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"Filter":{
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"FilterList":{
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  "required":["SubscriptionProviderArn"],
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"GetRegisteredSubscriptionProviderResponse":{
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    "SubscriptionProviderStatusMessage":{"shape":"String"}
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"Status":{"shape":"Status"},
"StatusMessage":{"shape":"StringMap"}
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"AmiId":{"shape":"String"},
"DualSubscription":{"shape":"String"},
"InstanceID":{"shape":"String"},
"InstanceType":{"shape":"String"},
"LastUpdatedTime":{"shape":"String"},
"OsVersion":{"shape":"String"},
"ProductCode":{"shape":"ProductCodeList"},
"Region":{"shape":"String"},
"RegisteredWithSubscriptionProvider":{"shape":"String"},
"Status":{"shape":"String"},
"SubscriptionName":{"shape":"String"},
"SubscriptionProviderCreateTime":{"shape":"String"},
"SubscriptionProviderUpdateTime":{"shape":"String"},
"UsageOperation":{"shape":"String"}
}
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"InstanceList":{
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"InternalServerException":{
"type":"structure",
"members":{
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"LinuxSubscriptionsDiscovery":{
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  "enum":[
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"LinuxSubscriptionsDiscoverySettings":{
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    "SourceRegions"
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"ListLinuxSubscriptionsRequestNextTokenString":{
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    "SubscriptionProviderSources":{"shape":"SubscriptionProviderSourceList"}
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},
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  "type":"structure",
  "required":["resourceArn"],
  "members":{
    "resourceArn":{
      "shape":"SubscriptionProviderArn",
      "location":"uri",
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"ListTagsForResourceResponse":{
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  "members":{
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  ],
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  "enum":[
    "Enabled",
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"ProductCodeList":{
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"RegisterSubscriptionProviderRequest":{
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  "required":[
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    "SubscriptionProviderSource"
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  "members":{
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},
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  "members":{
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  }
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"RegisteredSubscriptionProvider":{
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  "members":{
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"SubscriptionProviderStatus":{"shape":"SubscriptionProviderStatus"},
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},
"RegisteredSubscriptionProviderList":{
"type":"list",
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"message":{"shape":"String"}
},
"exception":true
},
"SecretArn":{
"type":"string",
"pattern":"^arn:[a-z0-9-\\.]{1,63}:secretsmanager:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:secret:[^/]{1,1023}$"
},
"Status":{
"type":"string",
"enum":[
"InProgress",

"Completed",
"Successful",
"Failed"
]
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"max":100,
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"type":"structure",

"members":{
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"tagKeys"
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"locationName":"resourceArn"
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"tagKeys":{
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"location":"querystring",
"locationName":"tagKeys"
}
}
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"UntagResourceResponse":{
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      "LinuxSubscriptionsDiscoverySettings"
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      "LinuxSubscriptionsDiscoverySettings":{"shape":"LinuxSubscriptionsDiscoverySettings"}
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      "Status":{"shape":"Status"},
      "StatusMessage":{"shape":"StringMap"}
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          "required": false,
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          "type": "String"
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"type": "Boolean"
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]
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}

1.5059 grafana 10.4.14

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1.5060 go.opentelemetry.io/otel/exporters/zipkin 1.28.0

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1.5061 google-cloud-go-kms 1.18.4

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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
```

```
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}
```

```
func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
```

```
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
```

```
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*computepb.LicensesListResponse)
 }
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

```
func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
```

```
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
```

```
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseCodeRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
}
resp,
err := c.TestIamPermissions(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

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```
// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.34.2
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"
```

```
 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
```

```
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
```

```
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
```

```
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
```

```
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor
```

```
var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
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 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
 0x0b, 0x67,
 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
 0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
 0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
```

```
 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
 0x64,
 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
 0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []any{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
```

```
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func
 file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:           file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:
         file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
```

```
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete          []gax.CallOption
```

```
 Get              []gax.CallOption
 GetIamPolicy       []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy       []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
[]gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
```

```
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  SetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000
 * time.Millisecond),
  },
 }
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.
```

```
// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
```

```
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}
```

```
// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
```

```
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient
 = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
url.QueryEscape(req.GetLicense()))}
```

```
hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf,
err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
```

```
  },
 }
 return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()),
 "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
```

```
 if err != nil {
  return err
 }

 if err
:= unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and
 context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
```

```
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp);
 err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
```

```
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.RequestId != nil {
 params.Add("requestId",
fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err !=
nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
```

```
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient)
 List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())
```

```
 params := url.Values{}
 if req != nil && req.Filter != nil {
  params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
 }
 if req != nil && req.MaxResults != nil {
  params.Add("maxResults",
fmt.Sprintf("%v", req.GetMaxResults()))
 }
 if req != nil && req.OrderBy != nil {
  params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req != nil && req.PageToken != nil {
  params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return
err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
```

```
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only
 by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
```

```
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
```

```
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on
 the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type",
 "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers
```

```
 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return
nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}
```

1.5062 golang-genproto 0.0.0-20240814211410-ddb44dafa142

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1.5063 github.com/ory/x 0.0.649

1.5063.1 Available under license :

```
name: Licenses

on:
 pull_request:
 push:
   branches:
     - main
     - master

jobs:
 check:
   runs-on: ubuntu-latest
   steps:
     - uses: actions/checkout@v2
     - uses: actions/setup-go@v2
       with:
         go-version: "1.22"
     - uses: actions/setup-node@v2
       with:
         node-version: "18"
     - run: make licenses
```

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```
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package configx

import (
 "os"
 "os/user"
 "strconv"
)

type UnixPermission struct {
 Owner string
 Group string
 Mode  os.FileMode
}

func (p *UnixPermission) SetPermission(file string) error {
 var e error
 e = os.Chmod(file, p.Mode)
 if e != nil {
  return e
 }

 gid := -1
 uid := -1

 if p.Owner != "" {
  var userObj *user.User
  userObj, e = user.Lookup(p.Owner)
  if e != nil {
   return e
  }
  uid, e = strconv.Atoi(userObj.Uid)
  if e != nil {
   return e
  }
 }
 if p.Group != "" {
  var group *user.Group
  group, e := user.LookupGroup(p.Group)
  if e != nil {
   return e
  }
  gid, e = strconv.Atoi(group.Gid)
  if e != nil {
   return e
  }
```

```
 }

 e = os.Chown(file, uid, gid)
 if e != nil {
  return e
 }
 return nil
}
```

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1.5064 go.opentelemetry.io/contrib/samplers/jaegerremote 0.22.0

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1.5065 google-cloud-go-longrunning 0.5.11

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package compute_test

import (
 "context"
```

```
 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
```

```
 // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
```

```
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
```

```
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*computepb.LicensesListResponse)
 }
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
```

```
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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package compute_test

import (
```

```
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
```

```
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
// protoc-gen-go v1.34.2
// protoc   v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (

```
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)
```

```
func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
```

```
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":           1,
  "WRITER":          2,
  "READER":          3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
```

```
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}
```

```
func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}
```

```
var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
 0x0b, 0x67,
 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
 0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
 0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
```

```
 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
 0x64,
 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
 0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []any{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
```

```
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func
 file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:           file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:
         file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
```

```
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
// Copyright 2024 Google LLC
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//     https://www.apache.org/licenses/LICENSE-2.0
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
```

```
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
```

```
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 SetIamPolicy: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 TestIamPermissions: []gax.CallOption{
  gax.WithTimeout(600000
* time.Millisecond),
 },
}
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}
```

```
// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
```

```
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
```

```
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
```

```
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient
 = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
```

```
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf,
 err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
```

```
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()),
 "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
```

```
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err
 := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and
 context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
```

```
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp);
 err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
```

```
jsonReq, err := m.Marshal(body)
if err != nil {
 return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.RequestId != nil {
 params.Add("requestId",
fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err !=
nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
```

```
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient)
 List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
```

```
 return nil, "", err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.Filter != nil {
 params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
}
if req != nil && req.MaxResults != nil {
 params.Add("maxResults",
fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
 params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
 params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
 params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return
err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }
```

```
  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only
 by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
```

```
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
```

```
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on
 the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type",
 "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
```

```
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return
nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}
```

1.5066 github.com/ory/fosite 0.47.0

1.5066.1 Available under license :

```
name: Licenses

on:
 pull_request:
 push:
  branches:
   - main
   - master

jobs:
 check:
  runs-on: ubuntu-latest
  steps:
```

```
- uses: actions/checkout@v2
- uses: actions/setup-go@v2
  with:
    go-version: "1.21"
- uses: actions/setup-node@v2
  with:
    node-version: "18"
- run: make licenses
```

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1.5067 github.com/gobuffalo/pop/v6 6.1.1

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1.5068 kubernetes-client 0.29.0

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1.5069 googlecloudgolongrunning 0.5.11

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A

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1.5092 operator-framework-ansible-operator-plugins 1.37.1

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1.5093 kubernetes-client 0.31.4

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1.5096 component-base 0.31.4

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package spec

import (
 "encoding/json"

 "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 LicenseProps
 VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
```

```
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}

// UnmarshalJSON
 hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
 if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
  return err
 }
 return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
 b1, err := json.Marshal(l.LicenseProps)
 if err != nil {
  return nil, err
 }
 b2, err := json.Marshal(l.VendorExtensible)
 if err != nil {
  return nil, err
 }
 return swag.ConcatJSON(b1, b2), nil
}
```

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Go support for Protocol Buffers - Google's data interchange format

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Contributing

When contributing to this repository, please first discuss the change you wish
to make via an [issue](https://github.com/sigstore/rekor/issues).

Pull Request Process

1. Create an [issue](https://github.com/sigstore/rekor/issues)
   outlining the fix or feature.
2. Fork the rekor repository to your own github account and clone it locally.
3. Hack on your changes.
4. Update the README.md with details of changes to any interface, this includes new environment
   variables, exposed ports, useful file locations, CLI parameters and
   new or changed configuration values.
5. Correctly format your commit message see [Commit Messages](#Commit Message Guidelines)
   below.
6. Ensure that CI passes, if it fails, fix the failures.
7. Every pull request requires a review from the [core rekor

team](https://github.com/orgs/github.com/sigstore/teams/core-team)
  before merging.
8. If your pull request consists of more than one commit, please squash your
  commits as described in
 [Squash Commits](#Squash Commits)

Commit Message Guidelines

We follow the commit formatting recommendations found on [Chris Beams' How to Write a Git Commit Message article]((https://chris.beams.io/posts/git-commit/).

Well formed commit messages not only help reviewers understand the nature of
the Pull Request, but also assists the release process where commit messages
are used to generate release notes.

A good example of a commit message would be as follows:

```
Summarize changes in around 50 characters or less

More detailed explanatory text, if necessary. Wrap it to about 72
characters or so. In some contexts, the first line is treated as the
subject of the commit and the rest of the text as the body. The
blank line separating the summary from the body is critical (unless
you omit the body entirely); various tools like `log`, `shortlog`
and `rebase` can get confused if you run the two together.

Explain the problem that this commit is solving. Focus on why you
are making this
 change as opposed to how (the code explains that).
Are there side effects or other unintuitive consequences of this
change? Here's the place to explain them.

Further paragraphs come after blank lines.

- Bullet points are okay, too

- Typically a hyphen or asterisk is used for the bullet, preceded
  by a single space, with blank lines in between, but conventions
  vary here

If you use an issue tracker, put references to them at the bottom,
like this:

Resolves: #123
See also: #456, #789
```

Note the `Resolves #123` tag, this references the issue raised and allows us to
ensure issues are associated and closed when a pull request is merged.

Please refer to [the github help page on message types](https://help.github.com/articles/closing-issues-using-keywords/)
for a complete list of issue references.

Squash Commits

Should your pull request consist of more than one commit (perhaps due to
a change being requested during the review cycle), please perform a git squash
once a reviewer
has approved your pull request.

A squash can be performed as follows. Let's say you have the following commits:

```
initial commit
second commit
final commit
```

Run the command below with the number set to the total commits you wish to
squash (in our case 3 commits):

```
git rebase -i HEAD~3
```

You default text editor will then open up and you will see the following::

```
pick eb36612 initial commit
pick 9ac8968 second commit
pick a760569 final commit

# Rebase eb1429f..a760569 onto eb1429f (3 commands)
```

We want to rebase on top of our first commit, so we change the other two commits
to `squash`:

```
pick eb36612 initial commit
squash 9ac8968 second commit
squash a760569 final commit
```

After this, should you wish to update your commit message to better summarise
all of your pull request, run:

```
git commit --amend
```

You will then need to force push (assuming your initial commit(s) were posted
to github):

```
  git push origin your-branch --force
```

Alternatively,
 a core member can squash your commits within Github.
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1.5103 github.com/operator-framework/operator-registry 1.47.0

1.5103.1 Available under license :

Execute end-to-end tests for local development

To execute the end-to-end (e2e) test suite on your local development system, you have two options:

1. Use a dynamically generated kind server. Each run of the test suite will automatically start a new kind cluster, and will be torn down upon completion of tests.

1. Stand up your own minikube or other cluster and use kubeconfig. This option is good for starting a cluster and keeping it
running even after the test suite has completed.

Kind without SSL

1. Start a registry server without using SSL

```bash
./scripts/start_registry.sh -s kind-registry
```

1. Start the e2e tests:

```bash
DOCKER_REGISTRY_HOST=localhost:5000 GOENV='GOOS=linux' make build e2e USEHTTP="true" CLUSTER=kind
```

1. Run a specific BDD test using the `TEST` argument to make. Note that this argument uses regular expressions.

```bash
DOCKER_REGISTRY_HOST=localhost:5000 GOENV='GOOS=linux' make build e2e TEST='builds and manipulates bundle
and index images' USEHTTP="true" CLUSTER=kind
```

1. If you want a quick way to ensure that your TEST regex argument will work, you can bypass the make file and use `--dry-run` with `--focus` and see if the regex would trigger your specific test(s).

```bash
go run github.com/onsi/ginkgo/v2/ginkgo --v --randomize-all --randomize-suites --race --dry-run --focus 'builds and manipulates bundle and index images' -tags=json1,kind ./test/e2e
```

Kind with SSL

1. Start a registry server with SSL (NOTE: SSL CA root will be installed and server cert/key will be generated)

```bash
./scripts/start_registry.sh kind-registry
```

1. Start the e2e tests:

```bash
DOCKER_REGISTRY_HOST=localhost:443 GOENV='GOOS=linux' make build e2e CLUSTER=kind
```

1. Run a specific BDD test using the `TEST` argument to make. Note that this argument uses regular expressions.

```bash
DOCKER_REGISTRY_HOST=localhost:443 GOENV='GOOS=linux' make build e2e TEST='builds and manipulates
bundle and index images' CLUSTER=kind
```

1. If you want a quick way to ensure that your TEST regex argument will work, you can bypass the make file and use `--dry-run` with `--focus` and see if the regex would trigger your specific test(s).

```bash
```

```
go run github.com/onsi/ginkgo/v2/ginkgo --v --randomize-all --randomize-suites --race --dry-run --focus 'builds and manipulates bundle and index images' -tags=json1,kind ./test/e2e
```

Minikube (or other type) using kubeconfig without SSL

1. Install [`minikube`](https://minikube.sigs.k8s.io/docs/start/)

1. Create a minikube cluster

```bash
minikube start
```

1. Start a registry server without using SSL

```bash
./scripts/start_registry.sh -s minikube-registry
```

1. Start the e2e tests:

```bash
KUBECONFIG="$HOME/.kube/config" DOCKER_REGISTRY_HOST=localhost:5000 make build e2e SKIPTLS="true"
```

1. Run a specific BDD test using the `TEST` argument to make. Note that this argument uses regular expressions.

```bash
KUBECONFIG="$HOME/.kube/config" DOCKER_REGISTRY_HOST=localhost:5000 make build e2e TEST='builds and manipulates bundle and index images' SKIPTLS="true"
```

1. If you want a quick way to ensure that your TEST regex argument will work, you can bypass the make file and use `--dry-run` with `--focus` and see if the regex would trigger your specific test(s).

```bash
go run github.com/onsi/ginkgo/v2/ginkgo --v --randomize-all --randomize-suites --race --dry-run --focus 'builds and manipulates bundle and index images' -tags=json1 ./test/e2e
```

TIP: use a non-dynamic `kind` server by using `kind get kubeconfig --name "kind" > /tmp/kindconfig` and set `KUBECONFIG="/tmp/kindconfig"`

Minikube (or other type) using kubeconfig with SSL

1. Install [`minikube`](https://minikube.sigs.k8s.io/docs/start/)

1. Create a minikube cluster

```bash
minikube start
```

1. Start a registry server with SSL (NOTE: SSL CA root will be installed
and server cert/key will be generated)

```bash
./scripts/start_registry.sh minikube-registry
```

1. Start the e2e tests:

```bash
KUBECONFIG="$HOME/.kube/config" DOCKER_REGISTRY_HOST=localhost:443 make build e2e
```

1. Run a specific BDD test using the `TEST` argument to make. Note that this argument uses regular expressions.

```bash
KUBECONFIG="$HOME/.kube/config" DOCKER_REGISTRY_HOST=localhost:443 make build e2e
TEST='builds and manipulates bundle and index images'
```

1. If you want a quick way to ensure that your TEST regex argument will work, you can bypass the
make file and use `--dry-run` with `--focus` and see if the regex would trigger your specific test(s).

```bash
go run github.com/onsi/ginkgo/v2/ginkgo --v --randomize-all --randomize-suites --race --dry-run --focus 'builds
and manipulates bundle and index images' -tags=json1 ./test/e2e
```

TIP: use a non-dynamic `kind` server by using `kind get kubeconfig --name "kind" > /tmp/kindconfig`
and set `KUBECONFIG="/tmp/kindconfig"`

Known Limitations

Currently the test case `Launch bundle` in test/e2e/bundle_image_test.go assumes that the `opm` executable used in the test is compiled for linux.
If you run this test on a darwin environment, the kube job will not succeed unless you manually cross compile for linux and include
the binary at `bin/opm`.
Add database versioning and migrations to output database

Status: Pending

Version: alpha

Implementation owner: TBD

Abstract

Proposal to add database versioning and migration capability to the output of operator-registry commands

Motivation

In an attempt at optimizing the registry database usage in OLM to allow the registry database to be stored in a container image, a method is needed to add to the database over time. Since these database files will be long living, it becomes a requirement that the database can migrate to a new schema over time. This proposal attempts to solve that problem by implementing a method with which database versions can be migrated with existing db files over time.

Proposal

Migration Method

At a high level, the migration method is relatively straightforward. The database will contain a current migration version and when any additive operation is called with an existing database as input, the first step will be to run the migration to upgrade
 the database schema to the latest version.

Rather than reinventing the database migration process, operator-registry will use an existing database migration tool that has already defined a set of semantics and conventions. This proposal suggests using the [golang-migrate](https://github.com/golang-migrate/migrate) tool for this purpose. Golang-migrate uses a set of conventions to define migrations.

Firstly, it defines migrations as a set of sql files that live in a flat database folder. Migrations are individually defined as a pair of up and down migration scripts. These up and down scripts each define a method of going to and back from a particular database version and should be opposites semantically. Each script pair has a unique 64 bit unsigned integer identifier followed by an underscore, as well as a title, a direction, and ends in the `.sql` extension: `${version}_${title}.${direction(down/up)}.sql`. The versions are ordered, with the lowest integer value coming first and
 the latest version defining the current database migration version in the db. For more details on the migration format, please see https://github.com/golang-migrate/migrate/blob/master/MIGRATIONS.md.

```
# example migrations folder
db_migrations
 201909251522_add_users_table.up.sql
 201909251522_add_users_table.down.sql
 201909251510_first_migration.up.sql
 201909251510_first_migration.down.sql
```

```

Once that migration schema is defined, whenever any additive operation is run against the database we will first use the migrate API to upgrade the schema to the latest version. See https://godoc.org/github.com/golang-migrate/migrate#Migrate.Up for more details on that API.

### Versioning fresh databases

One other consideration of note here is that the operator-registry database is not a long living database in the traditional sense, since the database is often created from scratch. All common migration tools do not generally account for such an edge case, so this proposal also
 defines a method of initializing the database at a particular migration version. Since the migration version is a matter of convention on file names, we can infer the migration version by parsing the migration folder and finding the latest migration script version. Then, once we initialize the database on startup we can use `golang-migrate` API to force the initial migration version. See https://godoc.org/github.com/golang-migrate/migrate#Migrate.Force for more details on that API.

### Schema Definition

One thing to note is the choice of how the database schema is defined. Currently that schema is defined in source code here in [/pkg/sqlite/load.go](https://github.com/operator-framework/operator-registry/blob/master/pkg/sqlite/load.go#L29) as a list of create table statements.

However, once sql migrations are written the database schema is sometimes generated in two ways (through a migration upgrade or from scratch) as defined above. In that case, there are a few ways to do that. One
 is to leave the initial schema as is and use the migrations on a clean install as well -- but that means that the schema is not defined in one single human readable place. This can commonly be worked around by using a migration tool that can output an example of the sql schema for the purpose of development.

The other option, and the one that this proposal defines as the solution, is to keep the schema definition in `load.go` in sync with the changes defined in each migration. In this case, it is possible for the database to go out of sync on migration vs from scratch in the case where the migration was written properly. This can be easily mitigated by writing an automated test that always ensures that some initial bundle database can be migrated to a latest version and have the same schema as a clean database.

As a result, this implementation will require writing tests to ensure that the schema versioning is in sync between upgrade and scratch creation.

### Choice of Migration Tool

One
 point of this proposal is deciding to use the `golang-migrate` project as a method of driving migration conventions and the migrations themselves. Below is a list of criteria that this tool fulfilled when making that choice:

- Popular and well supported
- Good documentation
- Supports lots of different database drivers, in the event that we move away from sqlite we can maintain the use of workflows around migrations
```

- No need to ship a migration binary, migration can be handled by importing `golang-migrate` and running in source
- Has a nice API for upgrading and reading the schema version for our scratch scenario that doesn't require us to expect a particular convention of database versioning
- Allows defining migration versions as timestamps

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Add a new migration

Migrations live in `pkg/sqlite/migrations`.

Create a new file (and tests!) that increments the migration number:

```sh
touch pkg/sqlite/migrations/002_migration_description.go
touch pkg/sqlite/migrations/002_migration_description_test.go
```

Create the migration instance and register it:

```go
package migrations

import (
 "context"
 "database/sql"
)

// This should increment the value from the previous migration
const MyMigrationKey = 2


var myNewMigration = &Migration{
```

```
  // The id for this migration
 Id: MyMigrationKey,
 Up: func(ctx context.Context, tx *sql.Tx) error {
     // the up version of this migration
  return nil
 },
 Down: func(ctx context.Context, tx *sql.Tx) error {
     // the down version of this migration
  return nil
 },
}

// Register this migration
func init() {
 migrations[MyMigrationKey] = myNewMigration
}
```

See the existing migrations in the `pkg/sqlite/migrations` for examples of migrations and tests.
Releases

opm

Binary releases of opm are built by Github Actions, see [release.yaml](../../.github/workflows/release.yaml) for details.
amd64 builds are produced for linux, macos, and windows.

opm follows semantic versioning, with the latest version derived from the newest semver tag.

Triggering a release

Releases are triggered via tags. Make a new release by tagging a commit with an appropriate semver tag.

```console
$ git tag -a -m "operator-registry vX.Y.Z" vX.Y.Z
$ git push upstream vX.Y.Z
```

Checking the build

Builds for a release can be found [on GitHub Actions](https://github.com/operator-framework/operator-registry/actions). After triggering a build, watch for logs. If the build is successful, a new [release](https://github.com/operator-framework/operator-registry/releases) should appear in GitHub. It will be a draft release, so once all the artifacts are available you need to edit the release to publish the draft.

Docker images

The primary image produced

from this repository is [quay.io/operator-framework/opm](https://quay.io/repository/operator-framework/opm). See [goreleaser.yaml](../../.github/workflows/goreleaser.yaml) for details. The following tagging system is used for this image:
- `:master` - tracks this repository's `master` branch.
- `:latest` - tracks the highest semver tag in the repository.
- `vX` - tracks the highest semver tag with major version `X`.
- `vX.Y` - tracks the highest semver tag with the major/minor version `X.Y`.
- `vX.Y.Z` - pushed on every non-prerelease semver tag.

For each of the appropriate tags, the build configuration produces images and a manifest list for the following platforms:
- `linux/amd64`
- `linux/arm64`
- `linux/s390x`
- `linux/ppc64le`

Other deprecated images are also built via Quay triggers. The tags in Quay.io will match the git tag, and for these images, `:latest` tracks the `master` branch:

- [quay.io/operator-framework/operator-registry-server](https://quay.io/repository/operator-framework/operator-registry-server)
- [quay.io/operator-framework/configmap-operator-registry](https://quay.io/repository/operator-framework/configmap-operator-registry)
- [quay.io/operator-framework/upstream-registry-builder](https://quay.io/repository/operator-framework/upstream-registry-builder?tab=tags)

It is recommended that you always pull by digest, and only use images that are tagged with a version.

1.5104 k8s-io-apiextensions-apiserver 0.31.4

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1.5105 kubernetes-kubectl 0.31.4

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1.5106 kubernetes-apiserver 0.31.4

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1.5107 operator-framework-operator-registry 1.47.0

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Execute end-to-end tests for local development

To execute the end-to-end (e2e) test suite on your local development system, you have two options:

1. Use a dynamically generated kind server. Each run of the test suite will automatically start a new kind cluster, and will be torn down upon completion of tests.

1. Stand up your own minikube or other cluster and use kubeconfig. This option is good for starting a cluster and keeping it
running even after the test suite has completed.

Kind without SSL

1. Start a registry server without using SSL

```bash
./scripts/start_registry.sh -s kind-registry
```

1. Start the e2e tests:

```bash
DOCKER_REGISTRY_HOST=localhost:5000 GOENV='GOOS=linux' make build e2e USEHTTP="true" CLUSTER=kind
```

1. Run a specific BDD test using the `TEST` argument to make. Note that this argument uses regular expressions.

```bash
DOCKER_REGISTRY_HOST=localhost:5000 GOENV='GOOS=linux' make build e2e TEST='builds and manipulates bundle
and index images' USEHTTP="true" CLUSTER=kind
```

1. If you want a quick way to ensure that your TEST regex argument will work, you can bypass the
make file and use `--dry-run` with `--focus` and see if the regex would trigger your specific test(s).

```bash
go run github.com/onsi/ginkgo/v2/ginkgo --v --randomize-all --randomize-suites --race --dry-run --focus 'builds and manipulates bundle and index images' -tags=json1,kind ./test/e2e
```

Kind with SSL

1. Start a registry server with SSL (NOTE: SSL CA root will be installed and server cert/key will be generated)

```bash
./scripts/start_registry.sh kind-registry
```

1. Start the e2e tests:

```bash
DOCKER_REGISTRY_HOST=localhost:443 GOENV='GOOS=linux' make build e2e CLUSTER=kind
```

1. Run a specific BDD test using the `TEST` argument to make. Note that this argument uses regular expressions.

```bash
DOCKER_REGISTRY_HOST=localhost:443 GOENV='GOOS=linux' make build e2e TEST='builds and manipulates
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```

1. If you want a quick way to ensure that your TEST regex argument will work, you can bypass the make file and use `--dry-run` with `--focus` and see if the regex would trigger your specific test(s).

```bash
go run github.com/onsi/ginkgo/v2/ginkgo --v --randomize-all --randomize-suites --race --dry-run --focus 'builds and manipulates bundle and index images' -tags=json1,kind ./test/e2e
```

Minikube (or other type) using kubeconfig without SSL

1. Install [`minikube`](https://minikube.sigs.k8s.io/docs/start/)

1. Create a minikube cluster

```bash
minikube start
```

1. Start a registry server without using SSL

```bash
./scripts/start_registry.sh -s minikube-registry
```

1. Start the e2e tests:

```bash
KUBECONFIG="$HOME/.kube/config" DOCKER_REGISTRY_HOST=localhost:5000 make build e2e SKIPTLS="true"
```

1. Run a specific BDD test using the `TEST` argument to make. Note that this argument uses regular expressions.

```bash
KUBECONFIG="$HOME/.kube/config" DOCKER_REGISTRY_HOST=localhost:5000 make build e2e TEST='builds and manipulates bundle and index images' SKIPTLS="true"
```

1. If you want a quick way to ensure that your TEST regex argument will work, you can bypass the make file and use `--dry-run` with `--focus` and see if the regex would trigger your specific test(s).

```bash
go run github.com/onsi/ginkgo/v2/ginkgo --v --randomize-all --randomize-suites --race --dry-run --focus 'builds and manipulates bundle and index images' -tags=json1 ./test/e2e
```

TIP: use a non-dynamic `kind` server by using `kind get kubeconfig --name "kind" > /tmp/kindconfig` and set `KUBECONFIG="/tmp/kindconfig"`

Minikube (or other type) using kubeconfig with SSL

1. Install [`minikube`](https://minikube.sigs.k8s.io/docs/start/)

1. Create a minikube cluster

```bash
minikube start
```

1. Start a registry server with SSL (NOTE: SSL CA root will be installed and server cert/key will be generated)

```bash
./scripts/start_registry.sh minikube-registry
```

1. Start the e2e tests:

```bash
KUBECONFIG="$HOME/.kube/config" DOCKER_REGISTRY_HOST=localhost:443 make build e2e
```

1. Run a specific BDD test using the `TEST` argument to make. Note that this argument uses regular expressions.

```bash
KUBECONFIG="$HOME/.kube/config" DOCKER_REGISTRY_HOST=localhost:443 make build e2e TEST='builds and manipulates bundle and index images'
```

1. If you want a quick way to ensure that your TEST regex argument will work, you can bypass the make file and use `--dry-run` with `--focus` and see if the regex would trigger your specific test(s).

```bash
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```

TIP: use a non-dynamic `kind` server by using `kind get kubeconfig --name "kind" > /tmp/kindconfig`
and set `KUBECONFIG="/tmp/kindconfig"`

Known Limitations

Currently the test case `Launch bundle` in test/e2e/bundle_image_test.go assumes that the `opm` executable used in the test is compiled for linux.
If you run this test on a darwin environment, the kube job will not succeed unless you manually cross compile for linux and include
the binary at `bin/opm`.
Add database versioning and migrations to output database

Status: Pending

Version: alpha

Implementation owner: TBD

Abstract

Proposal to add database versioning and migration capability to the output of operator-registry commands

Motivation

In an attempt at optimizing the registry database usage in OLM to allow the registry database to be stored in a container image, a method is needed to add to the database over time. Since these database files will be long living, it becomes a requirement that the database can migrate to a new schema over time. This proposal attempts to solve that problem by implementing a method with which database versions can be migrated with existing db files over time.

Proposal

Migration Method

At a high level, the migration method is relatively straightforward. The database will contain a current migration version and when any additive operation is called with an existing database as input, the first step will be to run the migration to upgrade
the database schema to the latest version.

Rather than reinventing the database migration process, operator-registry will use an existing database migration tool that has already defined a set of semantics and conventions. This proposal suggests using the [golang-migrate](https://github.com/golang-migrate/migrate) tool for this purpose. Golang-migrate uses a set of conventions to define migrations.

Firstly, it defines migrations as a set of sql files that live in a flat database folder. Migrations are individually defined as a pair of up and down migration scripts. These up and down scripts each define a method of going to and back from a particular database version and should be opposites semantically. Each script pair has a unique 64 bit unsigned integer identifier followed by an underscore, as well as a title, a direction, and ends in the `.sql` extension: `${version}_${title}.${direction(down/up)}.sql`. The versions are ordered, with the lowest integer value coming first and
the latest version defining the current database migration version in the db. For more details on the migration format, please see https://github.com/golang-migrate/migrate/blob/master/MIGRATIONS.md.

```
# example migrations folder
db_migrations
 201909251522_add_users_table.up.sql
 201909251522_add_users_table.down.sql
 201909251510_first_migration.up.sql
 201909251510_first_migration.down.sql
```

Once that migration schema is defined, whenever any additive operation is run against the database we will first use the migrate API to upgrade the schema to the latest version. See https://godoc.org/github.com/golang-migrate/migrate#Migrate.Up for more details on that API.

Versioning fresh databases

One other consideration of note here is that the operator-registry database is not a long living database in the traditional sense, since the database is often created from scratch. All common migration tools do not generally account for such an edge case, so this proposal also
defines a method of initializing the database at a particular migration version. Since the migration version is a matter of convention on file names, we can infer the migration version by parsing the migration folder and finding the latest migration script version. Then, once we initialize the database on startup we can use `golang-migrate` API to force the initial migration version. See https://godoc.org/github.com/golang-migrate/migrate#Migrate.Force for more details on that API.

Schema Definition

One thing to note is the choice of how the database schema is defined. Currently that schema is defined in source code here in [/pkg/sqlite/load.go](https://github.com/operator-framework/operator-

registry/blob/master/pkg/sqlite/load.go#L29) as a list of create table statements.

However, once sql migrations are written the database schema is sometimes generated in two ways (through a migration upgrade or from scratch) as defined above. In that case, there are a few ways to do that. One is to leave the initial schema as is and use the migrations on a clean install as well -- but that means that the schema is not defined in one single human readable place. This can commonly be worked around by using a migration tool that can output an example of the sql schema for the purpose of development.

The other option, and the one that this proposal defines as the solution, is to keep the schema definition in `load.go` in sync with the changes defined in each migration. In this case, it is possible for the database to go out of sync on migration vs from scratch in the case where the migration was written properly. This can be easily mitigated by writing an automated test that always ensures that some initial bundle database can be migrated to a latest version and have the same schema as a clean database.

As a result, this implementation will require writing tests to ensure that the schema versioning is in sync between upgrade and scratch creation.

Choice of Migration Tool

One point of this proposal is deciding to use the `golang-migrate` project as a method of driving migration conventions and the migrations themselves. Below is a list of criteria that this tool fulfilled when making that choice:

- Popular and well supported
- Good documentation
- Supports lots of different database drivers, in the event that we move away from sqlite we can maintain the use of workflows around migrations
- No need to ship a migration binary, migration can be handled by importing `golang-migrate` and running in source
- Has a nice API for upgrading and reading the schema version for our scratch scenario that doesn't require us to expect a particular convention of database versioning
- Allows defining migration versions as timestamps

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Add a new migration

Migrations live in `pkg/sqlite/migrations`.

Create a new file (and tests!) that increments the migration number:

```sh
touch pkg/sqlite/migrations/002_migration_description.go
touch pkg/sqlite/migrations/002_migration_description_test.go
```

Create the migration instance and register it:

```go
package migrations

import (
 "context"
 "database/sql"
)

// This should increment the value from the previous migration
const MyMigrationKey = 2


var myNewMigration = &Migration{
   // The id for this migration
 Id: MyMigrationKey,
 Up: func(ctx context.Context, tx *sql.Tx) error {
     // the up version of this migration
  return nil
 },
 Down: func(ctx context.Context, tx *sql.Tx) error {
     // the down version of this migration
  return nil
 },
}

// Register this migration
func init() {
 migrations[MyMigrationKey] = myNewMigration
}
```

See the existing migrations in the `pkg/sqlite/migrations` for examples of migrations and tests.
Releases

opm

Binary releases of opm are built by Github Actions, see [release.yaml](../../.github/workflows/release.yaml) for details.
amd64 builds are produced for linux, macos, and windows.

opm follows semantic versioning, with the latest version derived from the newest semver tag.

Triggering a release

Releases are triggered via tags. Make a new release by tagging a commit with an appropriate semver tag.

```console
$ git tag -a -m "operator-registry vX.Y.Z" vX.Y.Z
$ git push upstream vX.Y.Z
```

Checking the build

Builds for a release can be found [on GitHub Actions](https://github.com/operator-framework/operator-registry/actions). After triggering a build, watch for logs. If the build is successful, a new [release](https://github.com/operator-framework/operator-registry/releases) should appear in GitHub. It will be a draft release, so once all the artifacts are available you need to edit the release to publish the draft.

Docker images

The primary image produced
 from this repository is [quay.io/operator-framework/opm](https://quay.io/repository/operator-framework/opm). See [goreleaser.yaml](../../.github/workflows/goreleaser.yaml) for details. The following tagging system is used for this image:
- `:master` - tracks this repository's `master` branch.
- `:latest` - tracks the highest semver tag in the repository.
- `vX` - tracks the highest semver tag with major version `X`.
- `vX.Y` - tracks the highest semver tag with the major/minor version `X.Y`.
- `vX.Y.Z` - pushed on every non-prerelease semver tag.

For each of the appropriate tags, the build configuration produces images and a manifest list for the following platforms:
- `linux/amd64`
- `linux/arm64`
- `linux/s390x`
- `linux/ppc64le`

Other deprecated images are also built via Quay triggers. The tags in Quay.io will match the git tag, and for these images, `:latest` tracks the `master` branch:

- [quay.io/operator-framework/operator-registry-server](https://quay.io/repository/operator-framework/operator-registry-server)

- [quay.io/operator-framework/configmap-operator-registry](https://quay.io/repository/operator-framework/configmap-operator-registry)
- [quay.io/operator-framework/upstream-registry-builder](https://quay.io/repository/operator-framework/upstream-registry-builder?tab=tags)

It is recommended that you always pull by digest, and only use images that are tagged with a version.

1.5108 kubernetes-apiserver-extensions 0.31.4

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1.5109 helm 3.16.3

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1.5110 kubernetes/cli-runtime 0.31.4

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1.5112 github.com/operator-framework/ansible-operator-plugins 1.37.1

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1.5115 oslo-utils 8.2.0

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* /opt/cola/permits/2376955232_1740520413.1706626/0/jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/helpers/PrintConversionEventImpl.java
* /opt/cola/permits/2376955232_1740520413.1706626/0/jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/util/JAXBSource.java
* /opt/cola/permits/2376955232_1740520413.1706626/0/jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/util/Messages.java
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 /opt/cola/permits/2376955232_1740520413.1706626/0/jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/util/ValidationEventCollector.java
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* /opt/cola/permits/2376955232_1740520413.1706626/0/jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/DatatypeConverterInterface.java
* /opt/cola/permits/2376955232_1740520413.1706626/0/jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/helpers/AbstractUnmarshallerImpl.java
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* /opt/cola/permits/2376955232_1740520413.1706626/0/jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/Unmarshaller.java
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* /opt/cola/permits/2376955232_1740520413.1706626/0/jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/helpers/ValidationEventLocatorImpl.java
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* /opt/cola/permits/2376955232_1740520413.1706626/0/jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlAnyElement.java
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* /opt/cola/permits/2376955232_1740520413.1706626/0/jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlList.java
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/opt/cola/permits/2376955232_1740520413.1706626/0/jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlMixed.java
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* /opt/cola/permits/2376955230_1740520412.2960696/0/hikaricp-java7-2-4-13-sources-7-jar/com/zaxxer/hikari/pool/ProxyFactory.java
* /opt/cola/permits/2376955230_1740520412.2960696/0/hikaricp-java7-2-4-13-sources-7-jar/com/zaxxer/hikari/pool/ProxyConnection.java

1.5124 libcapbin 2.44-1ubuntu0.22.04.2

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered
by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data

structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any
executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable
source code for the Library including whatever
changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the
user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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and a pointer to where the full notice is found.

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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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freedom to share and change it. By contrast, the GNU General Public
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because
of this blurred distinction, using the ordinary General
Public License for libraries did not effectively promote software
sharing, because most developers did not use the libraries. We
concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the
users of those programs of all benefit from the free status of the
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permit developers of non-free programs to use free libraries, while
preserving your freedom as a user of such programs to change the free
libraries that are incorporated in them. (We have not seen how to achieve
this as regards changes in header files, but we have achieved it as regards
changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and
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former contains code derived from the library, while the latter only
works together with the library.

Note that it is possible for a library to be covered by the ordinary
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prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed
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portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of

its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the

Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies

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Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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Version 3, 29 June 2007

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not meant as a slight. I just don't know about it. Email me,
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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation
that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many
small
bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using

patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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1.5129 container-device-interface-specs-go 0.8.1

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1.5131

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1.5133 collector-internal-fanoutconsumer 0.120.0

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1.5137 collector-config-configtls 1.26.0

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1.5145 contrib-bridges-otelzap 0.9.0

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1.5146 collector-internal-telemetry 0.120.0

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1.5150 collector-semconv 0.120.0

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1.5155 collector-receiver 0.120.0

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1.5156 collector-confmap 0.120.0

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1.5161 otel-exporters-otlp-otlplog-otlploghttp 0.10.0

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1.5162 go.opentelemetry.io/otel/exporters/otlp/otlplog/otlploggrpc 0.10.0

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1.5163 collector-extension-extensioncapabilities 0.120.0

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1.5164 collector-extension 0.120.0

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1.5166 otel-sdk-log 0.10.0

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1.5168 collector-config-configtelemetry 0.120.0

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1.5171 collector-consumer-consumererror-xconsumererror 0.120.0

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1.5172 go.opentelemetry.io/collector/connector/connectortest 0.120.0

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1.5175 collector-pipeline 0.120.0

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1.5181 contrib-config 0.14.0

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1.5182 cobra 1.9.1

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1.5183 collector-consumer 0.120.0

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1.5184 go.opentelemetry.io/collector/consumer/consumererror/xconsumererror 0.120.0

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1.5191 otel-exporters-stdout-stdoutlog 0.10.0

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1.5192 collector-exporter-exporterhelper-xexporterhelper 0.120.0

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1.5193 otel-exporters-otlp-otlplog-otlploggrpc 0.10.0

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1.5198 contrib-propagators-b3 1.34.0

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1.5199 collector-component-componentstatus 0.120.0

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1.5200 collector-processor 0.120.0

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1.5201 go.opentelemetry.io/collector/pipeline/xpipeline 0.120.0

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1.5204 go.opentelemetry.io/collector/confmap 1.26.0

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1.5207 collector-consumer-consumertest 0.120.0

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1.5208 collector-pdata-testdata 0.120.0

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1.5211 collector-exporter-debugexporter 0.120.0

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1.5212 go.opentelemetry.io/collector/extension/xextension 0.120.0

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1.5213 collector-featuregate 1.26.0

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1.5214 github.com/shirou/gopsutil/v4 4.25.1

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1.5215 collector-connector 0.120.0

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1.5218 collector-pdata-pprofile 0.120.0

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1.5219 go.opentelemetry.io/collector/exporter/exportertest 0.120.0

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1.5221 collector-confmap-provider-envprovider 1.26.0

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1.5222 open-telemetry-opentelemetry-collector-contrib 0.120.0

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1.5229 google-go-cmp 0.7.0

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1.5230 kubernetes-apiserver-extensions 0.32.2

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John R. Hauser
2018 January 20

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```
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{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_file, "__acl_aclcheck_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR_bindat, "bindat", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
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{ TARGET_FREEBSD_NR_freebsd11_getdirentries, "freebsd11_getdirentries", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()", NULL, NULL },
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Key Dates
---
* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0
to Version 1.1 to cover open source documentation associated
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Version 1.0 covers source code files. Version 1.1 is a

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  3. Your "Contributed-under" message
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     must include the name of contribution agreement and version.
     For example: Contributed-under: TianoCore Contribution Agreement 1.1
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```
=====================================================
= Change Description / Commit Message / Patch Email =
=====================================================

Your change description should use the standard format for a
commit message, and must include your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch
PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [Repository/Branch PATCH]. The remaining portion of the
  commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "Repository" is the identifier of the repository the patch applies.
```

This identifier should only be provided for repositories other than
'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is
the identifier of the branch the patch applies. This
identifier should only be provided for branches other than 'edk2/master'.
For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or
'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For
example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or
'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
the change. Each line should be less than ~70 characters.
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4. Submit your code to the TianoCore project using the process
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```
=====================================================
= Change Description / Commit Message / Patch Email =
=====================================================
```

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

```
From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or attached
```

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [PATCH]. The remaining portion of the commit message
  is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short idenfier for the affected code. For
  example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
  the change. Each line should be less than ~70 characters.
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  made under the terms of the contribtion agreement. This
  agreement is included below in this document.
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John R. Hauser
2018 January 20

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 'os-sys.c',
))
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Index: debug.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c 7 Sep 2007 10:01:21 -0000 1.1
+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3
@@ -52,7 +52,11 @@
void X86EMU_trace_regs (void)
{
   if (DEBUG_TRACE()) {
-       x86emu_dump_regs();
+ if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+        x86emu_dump_xregs();
+ } else {
+        x86emu_dump_regs();
+ }
   }
   if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
       printk("%04x:%04x ",M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
   for (i=0; i< M.x86.enc_pos; i++) {
       sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
```

```
    }
-    printk("%-20s",buf1);
+    printk("%-20s ",buf1);
}

static void print_decoded_instruction (void)
Index: ops2.c
===================================================================
RCS file:
 /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops2.c 20 Mar 2008 15:48:34 -0000 1.3
@@ -149,8 +149,69 @@
    target += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", target);
    TRACE_AND_STEP();
-    if (cond)
+    if (cond) {
        M.x86.R_IP = (u16)target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+    }
+    DECODE_CLEAR_SEGOVR();
+    END_OF_INSTR();
+}
+
+/*****************************************************************************
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+*****************************************************************************/
+s32 x86emu_bswap(s32 reg)
+{
+   // perform the byte swap
+   s32 temp = reg;
+   reg = (temp & 0xFF000000) >> 24;
+   reg |= (temp & 0xFF0000) >> 8;
+   reg |= (temp & 0xFF00) << 8;
+   reg |= (temp & 0xFF) << 24;
+   return reg;
+}
+
+void x86emuOp2_bswap(u8 op2)
+{
+
    /* byte swap 32 bit register */
+    START_OF_INSTR();
```

```
+    DECODE_PRINTF("BSWAP\t");
+    switch (op2) {
+      case 0xc8:
+        DECODE_PRINTF("EAX\n");
+        M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+        break;
+      case 0xc9:
+        DECODE_PRINTF("ECX\n");
+        M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
+        break;
+      case 0xca:
+        DECODE_PRINTF("EDX\n");
+        M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+        break;
+      case 0xcb:
+        DECODE_PRINTF("EBX\n");
+        M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+        break;
+      case 0xcc:
+        DECODE_PRINTF("ESP\n");
+        M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+        break;
+      case 0xcd:
+        DECODE_PRINTF("EBP\n");
+        M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+        break;
+      case 0xce:
+        DECODE_PRINTF("ESI\n");
+        M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
+        break;
+      case 0xcf:
+        DECODE_PRINTF("EDI\n");
+        M.x86.R_EDI
 = x86emu_bswap(M.x86.R_EDI);
+        break;
+    }
+    TRACE_AND_STEP();
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -1702,14 +1763,14 @@
/*  0xc5 */ x86emuOp2_illegal_op,
/*  0xc6 */ x86emuOp2_illegal_op,
/*  0xc7 */ x86emuOp2_illegal_op,
-/*  0xc8 */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xc9 */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xca */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcb */ x86emuOp2_illegal_op,  /* TODO: bswap */
```

```
-/*  0xcc */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcd */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xce */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcf */ x86emuOp2_illegal_op,  /* TODO: bswap */
+/*  0xc8 */ x86emuOp2_bswap,
+/*  0xc9 */ x86emuOp2_bswap,
+/*  0xca */ x86emuOp2_bswap,
+/*  0xcb */ x86emuOp2_bswap,
+/*  0xcc */ x86emuOp2_bswap,
+/*  0xcd */ x86emuOp2_bswap,
+/*  0xce */ x86emuOp2_bswap,
+/*  0xcf */ x86emuOp2_bswap,

/*  0xd0 */ x86emuOp2_illegal_op,
/*  0xd1 */ x86emuOp2_illegal_op,
Index:
 ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops.c 20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
   imm = (s8)fetch_byte_imm();
   DECODE_PRINTF2("PUSH\t%d\n", imm);
   TRACE_AND_STEP();
-   push_word(imm);
+   if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+       push_long(imm);
+   } else {
+       push_word(imm);
+   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@
   target = (u16)(M.x86.R_IP + (s16)offset);
   DECODE_PRINTF2("%x\n", target);
   TRACE_AND_STEP();
-   if (cond)
+   if (cond) {
       M.x86.R_IP = target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
```

```
@@ -2516,9 +2522,11 @@
   count = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE))
 {
       /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
       M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX = 0;
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   }
   while (count--) {
@@ -2526,6 +2534,8 @@
       store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
       M.x86.R_SI += inc;
       M.x86.R_DI += inc;
+       if (M.x86.intr & INTR_HALTED)
+           break;
   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -2559,9 +2569,11 @@
   count = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
       /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode
 & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
       M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX = 0;
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   }
   while (count--) {
@@ -2574,6 +2586,8 @@
       }
       M.x86.R_SI += inc;
       M.x86.R_DI += inc;
+       if (M.x86.intr & INTR_HALTED)
+           break;
   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
```

```
@@ -2598,16 +2612,21 @@

   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* REPE  */
-      /* move them until CX is ZERO. */
-      while (M.x86.R_CX != 0) {
+      /* move them until (E)CX is ZERO. */
+      while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
         val1 = fetch_data_byte(M.x86.R_SI);
         val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_byte(val1, val2);
-         M.x86.R_CX -= 1;
+         if (M.x86.mode & SYSMODE_32BIT_REP)
+
            M.x86.R_ECX -= 1;
+         else
+            M.x86.R_CX -= 1;
         M.x86.R_SI += inc;
         M.x86.R_DI += inc;
         if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
         if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+         if (M.x86.intr & INTR_HALTED)
+            break;
      }
      M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   } else {
@@ -2644,8 +2663,8 @@
   TRACE_AND_STEP();
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* REPE  */
-      /* move them until CX is ZERO. */
-      while (M.x86.R_CX != 0) {
+      /* move them until (E)CX is ZERO. */
+      while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
         if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val1 = fetch_data_long(M.x86.R_SI);
            val2 = fetch_data_long_abs(M.x86.R_ES,
 M.x86.R_DI);
@@ -2655,11 +2674,16 @@
            val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_word((u16)val1, (u16)val2);
         }
-         M.x86.R_CX -= 1;
+         if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+         else
+            M.x86.R_CX -= 1;
         M.x86.R_SI += inc;
```

```
          M.x86.R_DI += inc;
          if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
          if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+           if (M.x86.intr & INTR_HALTED)
+               break;
       }
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   } else {
@@ -2741,11 +2765,16 @@
   TRACE_AND_STEP();
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
       /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /*
 move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
-          M.x86.R_CX -= 1;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+               M.x86.R_ECX -= 1;
+           else
+               M.x86.R_CX -= 1;
          M.x86.R_DI += inc;
+           if (M.x86.intr & INTR_HALTED)
+               break;
       }
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   } else {
@@ -2783,9 +2812,11 @@
   count = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
       /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
       M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX = 0;

      M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   }
   while (count--) {
@@ -2795,6 +2826,8 @@
          store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
       }
       M.x86.R_DI += inc;
```

```
+       if (M.x86.intr & INTR_HALTED)
+           break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2817,11 +2850,16 @@
        inc = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
-           M.x86.R_CX -= 1;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+               M.x86.R_ECX -= 1;
+           else
+               M.x86.R_CX -= 1;
            M.x86.R_SI += inc;
+           if (M.x86.intr & INTR_HALTED)
+
                break;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
@@ -2859,9 +2897,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2871,6 +2911,8 @@
            M.x86.R_AX = fetch_data_word(M.x86.R_SI);
        }
        M.x86.R_SI += inc;
+       if (M.x86.intr & INTR_HALTED)
+           break;
    }
    DECODE_CLEAR_SEGOVR();
```

```
   END_OF_INSTR();
@@ -2894,26 +2936,36 @@
       inc = 1;
   if (M.x86.mode & SYSMODE_PREFIX_REPE) {
       /*
 REPE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
           val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
           cmp_byte(M.x86.R_AL, val2);
-           M.x86.R_CX -= 1;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+               M.x86.R_ECX -= 1;
+           else
+               M.x86.R_CX -= 1;
           M.x86.R_DI += inc;
           if (ACCESS_FLAG(F_ZF) == 0)
               break;
+           if (M.x86.intr & INTR_HALTED)
+               break;
       }
       M.x86.mode &= ~SYSMODE_PREFIX_REPE;
   } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
       /* REPNE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {

           val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
           cmp_byte(M.x86.R_AL, val2);
-           M.x86.R_CX -= 1;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+               M.x86.R_ECX -= 1;
+           else
+               M.x86.R_CX -= 1;
           M.x86.R_DI += inc;
           if (ACCESS_FLAG(F_ZF))
               break;          /* zero flag set means equal */
+           if (M.x86.intr & INTR_HALTED)
+               break;
       }
       M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
   } else {
@@ -2951,8 +3003,8 @@
   TRACE_AND_STEP();
```

```
   if (M.x86.mode & SYSMODE_PREFIX_REPE) {
      /* REPE  */
-      /* move them until CX is ZERO. */
-      while (M.x86.R_CX != 0) {
+      /* move them until (E)CX is ZERO. */
+      while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
         if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_long(M.x86.R_EAX,
 val);
@@ -2960,16 +3012,21 @@
            val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_word(M.x86.R_AX, (u16)val);
         }
-         M.x86.R_CX -= 1;
+         if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+         else
+            M.x86.R_CX -= 1;
         M.x86.R_DI += inc;
         if (ACCESS_FLAG(F_ZF) == 0)
            break;
+         if (M.x86.intr & INTR_HALTED)
+            break;
      }
      M.x86.mode &= ~SYSMODE_PREFIX_REPE;
   } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
      /* REPNE  */
-      /* move them until CX is ZERO. */
-      while (M.x86.R_CX != 0) {
+      /* move them until (E)CX is ZERO. */
+      while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
         if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_long(M.x86.R_EAX,
 val);
@@ -2977,10 +3034,15 @@
            val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_word(M.x86.R_AX, (u16)val);
         }
-         M.x86.R_CX -= 1;
+         if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+         else
+            M.x86.R_CX -= 1;
         M.x86.R_DI += inc;
         if (ACCESS_FLAG(F_ZF))
            break;         /* zero flag set means equal */
```

```
+           if (M.x86.intr & INTR_HALTED)
+               break;
        }
        M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
    } else {
@@ -3238,9 +3300,9 @@
    DECODE_PRINTF("RET\t");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
 TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -3254,9 +3316,9
 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RET\n");
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
 TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -3471,10 +3533,10 @@
    DECODE_PRINTF("RETF\t");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
 TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RETF\n");
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
 TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
```

```
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
   DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
   ip += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
   TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
-    if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF))      /* CX != 0 and !ZF */
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
!ACCESS_FLAG(F_ZF))      /* (E)CX != 0 and !ZF */
        M.x86.R_IP = ip;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -4041,8 +4106,11 @@
   ip += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
   TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
-    if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF))       /* CX != 0 and ZF */
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
ACCESS_FLAG(F_ZF))      /* (E)CX != 0 and ZF */
         M.x86.R_IP = ip;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -4062,8 +4130,11 @@
   ip += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
   TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
-    if (M.x86.R_CX != 0)
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0)      /* (E)CX != 0 */
        M.x86.R_IP = ip;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
```

```
@@ -4085,8 +4156,10 @@
   target = (u16)(M.x86.R_IP + offset);
   DECODE_PRINTF2("%x\n", target);
   TRACE_AND_STEP();
-   if (M.x86.R_CX == 0)
+   if (M.x86.R_CX == 0) {
       M.x86.R_IP = target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -4213,6 +4286,7 @@
   ip = (s16)fetch_word_imm();
   ip += (s16)M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
+   JMP_TRACE(M.x86.saved_cs,
 M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
   TRACE_AND_STEP();
   M.x86.R_IP = (u16)ip;
   DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
   cs = fetch_word_imm();
   DECODE_PRINTF2("%04x:", cs);
   DECODE_PRINTF2("%04x\n", ip);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
   TRACE_AND_STEP();
   M.x86.R_IP = ip;
   M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
   offset = (s8)fetch_byte_imm();
   target = (u16)(M.x86.R_IP + offset);
   DECODE_PRINTF2("%x\n", target);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
   TRACE_AND_STEP();
   M.x86.R_IP = target;
   DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
   DECODE_PRINTF("REPNE\n");
   TRACE_AND_STEP();
   M.x86.mode |= SYSMODE_PREFIX_REPNE;
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.mode |= SYSMODE_32BIT_REP;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
   DECODE_PRINTF("REPE\n");
```

```
   TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPE;
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.mode |= SYSMODE_32BIT_REP;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
          break;
       case 4:        /* jmp word ptr ... */
          destval = fetch_data_word(destoffset);
+           JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
          TRACE_AND_STEP();
          M.x86.R_IP = destval;
          break;
       case 5:        /* jmp far ptr ... */
          destval = fetch_data_word(destoffset);
          destval2 = fetch_data_word(destoffset + 2);
+           JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
          TRACE_AND_STEP();
          M.x86.R_IP = destval;
          M.x86.R_CS = destval2;
Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision
 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ prim_ops.c 16 Jan 2008 14:18:15 -0000 1.3
@@ -1921,7 +1921,7 @@
void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
{
#ifdef  __HAS_LONG_LONG__
-   s64 res = (s64)d * (s64)s;
+    s64 res = (s64)(s32)d * (s64)(s32)s;

   *res_lo = (u32)res;
   *res_hi = (u32)(res >> 32);
@@ -2013,7 +2013,7 @@
void mul_long(u32 s)
{
#ifdef  __HAS_LONG_LONG__
-   u64 res = (u32)M.x86.R_EAX * (u32)s;
+    u64 res = (u64)M.x86.R_EAX * s;

   M.x86.R_EAX = (u32)res;
```

```
   M.x86.R_EDX = (u32)(res >> 32);
@@ -2312,16 +2312,15 @@
   }
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* dont care whether REPE or REPNE */
-      /* in until CX is ZERO. */
-      u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+      /* in until (E)CX is ZERO. */
+      u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
                  M.x86.R_ECX : M.x86.R_CX);
-
       while (count--) {
        single_in(size);
        M.x86.R_DI += inc;
        }
      M.x86.R_CX = 0;
-      if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+      if (M.x86.mode & SYSMODE_32BIT_REP) {
         M.x86.R_ECX = 0;
      }
      M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
@@ -2355,15 +2354,15 @@
   }
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* dont care whether REPE or REPNE */
-      /* out until CX is ZERO. */
-      u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+      /* out until (E)CX is ZERO. */
+      u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
                  M.x86.R_ECX : M.x86.R_CX);
      while (count--) {
       single_out(size);
       M.x86.R_SI += inc;
       }
      M.x86.R_CX = 0;
-      if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+      if (M.x86.mode & SYSMODE_32BIT_REP) {
         M.x86.R_ECX = 0;
      }
      M.x86.mode
 &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
Index: sys.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
retrieving revision 1.1
retrieving revision 1.2
diff -u -u -r1.1 -r1.2
--- sys.c 7 Sep 2007 10:01:21 -0000 1.1
```

```
+++ sys.c 7 Sep 2007 10:03:13 -0000 1.2
@@ -45,11 +45,6 @@
#include <x86emu/regs.h>
#include "debug.h"
#include "prim_ops.h"
-#ifdef LINUXBIOS_VERSION
-#include "io.h"
-#else
-#include <sys/io.h>
-#endif

#ifdef IN_MODULE
#include "xf86_ansic.h"
@@ -220,7 +215,7 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("inb %#04x \n", addr);)
- return inb(addr);
+ return 0;
}

/*****************************************************************************
@@ -235,7 +230,7 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("inw %#04x \n", addr);)
- return inw(addr);
+ return 0;
}

/*****************************************************************************
@@ -250,7 +245,7 @@
{
 DB(if (DEBUG_IO_TRACE())
   printk("inl %#04x \n", addr);)
- return inl(addr);
+ return 0;
}

/*****************************************************************************
@@ -264,7 +259,6 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("outb %#02x -> %#04x \n", val, addr);)
- outb(val, addr);
 return;
}
```

```
@@ -279,7 +273,6 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("outw %#04x -> %#04x \n", val, addr);)
- outw(val, addr);
 return;
}

@@ -295,7 +288,6 @@
 DB(if (DEBUG_IO_TRACE())
        printk("outl %#08x -> %#04x \n", val, addr);)

- outl(val, addr);
 return;
}

@@ -405,6 +397,6 @@

void X86EMU_setMemBase(void *base, size_t size)
{
- M.mem_base = (int) base;
+ M.mem_base = (unsigned long) base;
 M.mem_size = size;
}
Index: include/x86emu/debug.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h 7
 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/debug.h 20 Mar 2008 15:25:27 -0000 1.4
@@ -40,8 +40,6 @@
#ifndef __X86EMU_DEBUG_H
#define __X86EMU_DEBUG_H

-//#define DEBUG 0
-#undef DEBUG
/*---------------------- Macros and type definitions ----------------------*/

/* checks to be enabled for "runtime" */
@@ -78,6 +76,8 @@
# define DEBUG_SYSINT()         (M.x86.debug & DEBUG_SYSINT_F)
# define DEBUG_TRACECALL()      (M.x86.debug & DEBUG_TRACECALL_F)
# define DEBUG_TRACECALLREGS()  (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+# define DEBUG_TRACEJMP()       (M.x86.debug & DEBUG_TRACEJMP_F)
+# define DEBUG_TRACEJMPREGS()   (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
```

```
# define DEBUG_SYS()           (M.x86.debug & DEBUG_SYS_F)
# define DEBUG_MEM_TRACE()     (M.x86.debug & DEBUG_MEM_TRACE_F)
# define DEBUG_IO_TRACE()      (M.x86.debug & DEBUG_IO_TRACE_F)
@@ -96,6 +96,8 @@
# define DEBUG_SYSINT()        0
# define DEBUG_TRACECALL()     0
# define DEBUG_TRACECALLREGS()  0
+# define DEBUG_TRACEJMP()
      0
+# define DEBUG_TRACEJMPREGS()   0
# define DEBUG_SYS()           0
# define DEBUG_MEM_TRACE()     0
# define DEBUG_IO_TRACE()      0
@@ -169,14 +171,20 @@
  x86emu_dump_regs();                          \
 if (DEBUG_TRACECALL())                        \
  printk("%04x:%04x: CALL %s%04x:%04x\n", u , v, s, w, x);
-# define RETURN_TRACE(n,u,v)                   \
+# define RETURN_TRACE(u,v,w,x,s)               \
 if (DEBUG_TRACECALLREGS())        \
  x86emu_dump_regs();                          \
 if (DEBUG_TRACECALL())                        \
-  printk("%04x:%04x: %s\n",u,v,n);
+  printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
+# define  JMP_TRACE(u,v,w,x,s)                \
+   if (DEBUG_TRACEJMPREGS()) \
+      x86emu_dump_regs(); \
+   if (DEBUG_TRACEJMP()) \
+      printk("%04x:%04x: JMP %s%04x:%04x\n", u , v, s, w, x);
#else
# define CALL_TRACE(u,v,w,x,s)
-#
 define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
+# define  JMP_TRACE(u,v,w,x,s)
#endif

#ifdef DEBUG
Index: include/x86emu/regs.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/regs.h 15 Jan 2008 13:46:40 -0000 1.4
@@ -231,6 +231,9 @@
#define SYSMODE_PREFIX_REPNE    0x00000100
```

```
#define SYSMODE_PREFIX_DATA     0x00000200
#define SYSMODE_PREFIX_ADDR     0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP       0x00000800
#define SYSMODE_INTR_PENDING    0x10000000
#define SYSMODE_EXTRN_INTR      0x20000000
#define SYSMODE_HALTED          0x40000000
@@ -250,7 +253,8 @@
       SYSMODE_SEGOVR_GS      | \
      SYSMODE_SEGOVR_SS      | \
      SYSMODE_PREFIX_DATA    | \
-      SYSMODE_PREFIX_ADDR)
+      SYSMODE_PREFIX_ADDR    | \
+      SYSMODE_32BIT_REP)

#define  INTR_SYNCH          0x1
#define  INTR_ASYNCH         0x2
@@ -274,9 +278,9 @@
    */
   u32                     mode;
   volatile int              intr;   /* mask of pending interrupts */
- int                     debug;
+    volatile int                     debug;
#ifdef DEBUG
- int                     check;
+    int                     check;
   u16                     saved_ip;
   u16                     saved_cs;
   int                     enc_pos;
Index: include/x86emu/x86emu.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h 7 Sep 2007 10:01:21
 -0000 1.1
+++ include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000 1.3
@@ -47,6 +47,7 @@
#include <console.h>
#define printk(x...) printk(BIOS_DEBUG, x)
#else
+#include <stdio.h>
#define printk printf
#endif

@@ -189,6 +181,8 @@
```

```
#define DEBUG_TRACECALL_REGS_F  0x004000
#define DEBUG_DECODE_NOPRINT_F  0x008000
#define DEBUG_SAVE_IP_CS_F      0x010000
+#define DEBUG_TRACEJMP_F        0x020000
+#define DEBUG_TRACEJMP_REGS_F   0x040000
#define DEBUG_SYS_F             (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void  X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@
#ifdef  __cplusplus
}                       /* End of "C" linkage for C++    */
#endif
-
#endif /* __X86EMU_X86EMU_H */
```

argparse is (c) 2006-2009 Steven J. Bethard <steven.bethard@gmail.com>.

The argparse module was contributed to Python as of Python 2.7 and thus
was licensed under the Python license. Same license applies to all files in
the argparse package project.

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History

Before (and including) argparse 1.1, the argparse package was licensed under
Apache License v2.0.

After argparse 1.1, all project files from the argparse project were deleted
due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

The project repository then had a clean start with some files taken from
Python 2.7.1, so definitely all files are under Python License now.

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Version 2, June 1991

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  subdir_done()
endif

bsd_user_ss.add(files(
 'bsdload.c',
 'elfload.c',
 'main.c',
 'mmap.c',
 'signal.c',
 'strace.c',
 'syscall.c',
 'uaccess.c',
))

# Pull in the OS-specific build glue, if any
subdir(targetos)
TARGET_ARCH=i386
TARGET_XML_FILES= gdb-xml/i386-32bit.xml
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SPDX-URL: https://spdx.org/licenses/BSD-2-Clause.html
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John R. Hauser
2018 January 20

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uts/common/gssapi/include/mechglueP.h

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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
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lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
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lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c

lib/gssapi/mechglue/g_rel_name.c
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lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
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lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c

lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
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lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
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lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
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lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mgluePP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c

lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
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lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mgluePP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mgluePh
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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1.5242 prometheus-client 1.21.1

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)

```
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather
 lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*     as needed. This means that data must always be copied to create
*     the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*     Fix is simple: make large buffers large enough to hold entire
*     SDU, and leave <small_buffer_data> bytes empty at the start. Then
*     copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*     buffers. This is done by 2 things:
*       1) skb->destructor / skb->atm.recycle_buffer
*           combined, allow nicstar_free_rx_skb to be called to
*           recycle large data buffers
*       2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*     details.
*
*
*
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*
* M. Welsh, 6 July 1996
```

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1.5244 x-sys 0.31.0

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1.5245 go-restful 3.12.2

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1.5246 golang 1.24.1

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package copyright

```
import (
 "bytes"
 "internal/testenv"
 "io"
 "io/fs"
 "os"
 "path/filepath"
 "testing"
)

var copyright = []byte("Copyright")

var permitted = [][]byte{
 []byte("// Code generated by "),
 []byte("// Code generated from "),
 []byte("// Created by cgo -cdefs"),
 []byte("// DO NOT EDIT\n// generated by:"),
 []byte("// Empty assembly file"),
 []byte("// Generated using cgo"),
 []byte("// Original source:\n//\thttp://www.zorinaq.com/papers/md5-amd64.html"), // public domain crypto/md5
 []byte("// created by cgo -cdefs"),
 []byte("// go run mkasm.go"),
 []byte("// mkerrors"),
 []byte("// mksys"),
 []byte("// run\n// Code generated by"), // cmd/compile/internal/test/constFold_test.go
}

func TestCopyright(t *testing.T) {
 buf := make([]byte, 2048)
 filepath.WalkDir(filepath.Join(testenv.GOROOT(t), "src"), func(path string,
 d fs.DirEntry, err error) error {
  if d.IsDir() && (d.Name() == "testdata" || d.Name() == "vendor") {
   return filepath.SkipDir
  }
  switch filepath.Ext(d.Name()) {
  default:
   return nil
  case ".s", ".go":
   // check
  }

  f, err := os.Open(path)
  if err != nil {
   t.Error(err)
   return nil
  }
  defer f.Close()
```

```
  n, err := f.Read(buf)
  if err != nil && err != io.EOF {
   t.Error(err)
   return nil
  }
  b := buf[:n]
  if bytes.Contains(b, copyright) {
   return nil
  }
  for _, ok := range permitted {
   if bytes.HasPrefix(b, ok) {
    return nil
   }
  }
  t.Errorf("%s: missing copyright notice", path)
  return nil
 })
}
```

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.

```
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather
 lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*     as needed. This means that data must always be copied to create
*     the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*     Fix is simple: make large buffers large enough to hold entire
*     SDU, and leave <small_buffer_data> bytes empty at the start. Then
*     copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*     buffers. This is done by 2 things:
*       1) skb->destructor / skb->atm.recycle_buffer
*           combined, allow nicstar_free_rx_skb to be called to
*           recycle large data buffers
*       2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*     details.
*
*
*
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
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// +build go1.18

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package fake

import (
"context"
"errors"

```
 "fmt"
 azfake "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake/server"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
 "net/http"
 "net/url"
 "regexp"
)

// LicensesServer is a fake server for instances of the armhybridcompute.LicensesClient type.
type LicensesServer struct {
 // BeginCreateOrUpdate is the fake for method LicensesClient.BeginCreateOrUpdate
 // HTTP status codes to indicate success:
 http.StatusOK
 BeginCreateOrUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
armhybridcompute.License, options *armhybridcompute.LicensesClientBeginCreateOrUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse], errResp
azfake.ErrorResponder)

 // BeginDelete is the fake for method LicensesClient.BeginDelete
 // HTTP status codes to indicate success: http.StatusOK, http.StatusNoContent
 BeginDelete func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientBeginDeleteOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse], errResp azfake.ErrorResponder)

 // Get is the fake for method LicensesClient.Get
 // HTTP status codes to indicate success: http.StatusOK
 Get func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientGetOptions) (resp
azfake.Responder[armhybridcompute.LicensesClientGetResponse],
 errResp azfake.ErrorResponder)

 // NewListByResourceGroupPager is the fake for method LicensesClient.NewListByResourceGroupPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListByResourceGroupPager func(resourceGroupName string, options
*armhybridcompute.LicensesClientListByResourceGroupOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse])

 // NewListBySubscriptionPager is the fake for method LicensesClient.NewListBySubscriptionPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListBySubscriptionPager func(options *armhybridcompute.LicensesClientListBySubscriptionOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse])

 // BeginUpdate is the fake for method LicensesClient.BeginUpdate
 // HTTP status codes to indicate success: http.StatusOK
 BeginUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
```

```
 armhybridcompute.LicenseUpdate, options *armhybridcompute.LicensesClientBeginUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse], errResp azfake.ErrorResponder)

 // BeginValidateLicense is the fake for method LicensesClient.BeginValidateLicense
 // HTTP status codes to indicate success: http.StatusOK
 BeginValidateLicense func(ctx context.Context, parameters armhybridcompute.License, options
*armhybridcompute.LicensesClientBeginValidateLicenseOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse], errResp
azfake.ErrorResponder)
}

// NewLicensesServerTransport creates a new instance of LicensesServerTransport with the provided
implementation.
// The returned LicensesServerTransport instance is connected to an instance of armhybridcompute.LicensesClient
via the
// azcore.ClientOptions.Transporter field in the client's constructor parameters.
func NewLicensesServerTransport(srv *LicensesServer) *LicensesServerTransport
 {
 return &LicensesServerTransport{
  srv:                    srv,
  beginCreateOrUpdate:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]](),
  beginDelete:            newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]](),
  newListByResourceGroupPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]](),
  newListBySubscriptionPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]](),
  beginUpdate:            newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]](),
  beginValidateLicense:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]](),
 }
}

// LicensesServerTransport connects instances of armhybridcompute.LicensesClient to instances of LicensesServer.
// Don't use this type directly, use NewLicensesServerTransport
 instead.
type LicensesServerTransport struct {
 srv                    *LicensesServer
 beginCreateOrUpdate
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]]
 beginDelete            *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]]
 newListByResourceGroupPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]]
 newListBySubscriptionPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]]
 beginUpdate            *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]]
 beginValidateLicense
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]]
```

```
}

// Do implements the policy.Transporter interface for LicensesServerTransport.
func (l *LicensesServerTransport) Do(req *http.Request) (*http.Response, error) {
 rawMethod := req.Context().Value(runtime.CtxAPINameKey{})
 method,
 ok := rawMethod.(string)
 if !ok {
  return nil, nonRetriableError{errors.New("unable to dispatch request, missing value for CtxAPINameKey")}
 }

 var resp *http.Response
 var err error

 switch method {
 case "LicensesClient.BeginCreateOrUpdate":
  resp, err = l.dispatchBeginCreateOrUpdate(req)
 case "LicensesClient.BeginDelete":
  resp, err = l.dispatchBeginDelete(req)
 case "LicensesClient.Get":
  resp, err = l.dispatchGet(req)
 case "LicensesClient.NewListByResourceGroupPager":
  resp, err = l.dispatchNewListByResourceGroupPager(req)
 case "LicensesClient.NewListBySubscriptionPager":
  resp, err = l.dispatchNewListBySubscriptionPager(req)
 case "LicensesClient.BeginUpdate":
  resp, err = l.dispatchBeginUpdate(req)
 case "LicensesClient.BeginValidateLicense":
  resp, err = l.dispatchBeginValidateLicense(req)
 default:
  err = fmt.Errorf("unhandled API %s", method)
 }

 if err != nil {
  return nil, err
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginCreateOrUpdate(req
 *http.Request) (*http.Response, error) {
 if l.srv.BeginCreateOrUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginCreateOrUpdate not implemented")}
 }
 beginCreateOrUpdate := l.beginCreateOrUpdate.get(req)
 if beginCreateOrUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
```

```
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return
 nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginCreateOrUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body,
nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginCreateOrUpdate = &respr
  l.beginCreateOrUpdate.add(req, beginCreateOrUpdate)
 }

 resp, err := server.PollerResponderNext(beginCreateOrUpdate, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginCreateOrUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginCreateOrUpdate) {
  l.beginCreateOrUpdate.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginDelete(req *http.Request) (*http.Response, error) {
 if l.srv.BeginDelete
```

```
 == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginDelete not implemented")}
 }
 beginDelete := l.beginDelete.get(req)
 if beginDelete == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginDelete(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
  if
 respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginDelete = &respr
  l.beginDelete.add(req, beginDelete)
 }

 resp, err := server.PollerResponderNext(beginDelete, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK, http.StatusNoContent}, resp.StatusCode) {
  l.beginDelete.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK,
http.StatusNoContent", resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginDelete) {
  l.beginDelete.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchGet(req *http.Request) (*http.Response, error) {
```

```
 if l.srv.Get == nil {
  return nil, &nonRetriableError{errors.New("fake for method Get not implemented")}
 }
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
 regex
 := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 3 {
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
  return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.Get(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 respContent := server.GetResponseContent(respr)
 if !contains([]int{http.StatusOK}, respContent.HTTPStatus) {
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
respContent.HTTPStatus)}
 }
 resp, err := server.MarshalResponseAsJSON(respContent,
 server.GetResponse(respr).License, req)
 if err != nil {
  return nil, err
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListByResourceGroupPager(req *http.Request) (*http.Response,
error) {
 if l.srv.NewListByResourceGroupPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListByResourceGroupPager not implemented")}
 }
 newListByResourceGroupPager := l.newListByResourceGroupPager.get(req)
 if newListByResourceGroupPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
```

```
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 2 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if
 err != nil {
   return nil, err
  }
  resp := l.srv.NewListByResourceGroupPager(resourceGroupNameParam, nil)
  newListByResourceGroupPager = &resp
  l.newListByResourceGroupPager.add(req, newListByResourceGroupPager)
  server.PagerResponderInjectNextLinks(newListByResourceGroupPager, req, func(page
*armhybridcompute.LicensesClientListByResourceGroupResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp, err := server.PagerResponderNext(newListByResourceGroupPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListByResourceGroupPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListByResourceGroupPager) {
  l.newListByResourceGroupPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListBySubscriptionPager(req *http.Request)
 (*http.Response, error) {
 if l.srv.NewListBySubscriptionPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListBySubscriptionPager not implemented")}
 }
 newListBySubscriptionPager := l.newListBySubscriptionPager.get(req)
 if newListBySubscriptionPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 1 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resp := l.srv.NewListBySubscriptionPager(nil)
  newListBySubscriptionPager = &resp
```

```
  l.newListBySubscriptionPager.add(req, newListBySubscriptionPager)
  server.PagerResponderInjectNextLinks(newListBySubscriptionPager, req, func(page
*armhybridcompute.LicensesClientListBySubscriptionResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp,
 err := server.PagerResponderNext(newListBySubscriptionPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListBySubscriptionPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListBySubscriptionPager) {
  l.newListBySubscriptionPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginUpdate(req *http.Request) (*http.Response, error) {
 if l.srv.BeginUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginUpdate not implemented")}
 }
 beginUpdate := l.beginUpdate.get(req)
 if beginUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex
 := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.LicenseUpdate](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
```

```
 }
 respr, errRespr := l.srv.BeginUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 beginUpdate = &respr
 l.beginUpdate.add(req, beginUpdate)
}

resp, err := server.PollerResponderNext(beginUpdate, req)
if err != nil {
 return nil, err
}

if !contains([]int{http.StatusOK},
resp.StatusCode) {
 l.beginUpdate.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}
if !server.PollerResponderMore(beginUpdate) {
 l.beginUpdate.remove(req)
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginValidateLicense(req *http.Request) (*http.Response, error) {
if l.srv.BeginValidateLicense == nil {
 return nil, &nonRetriableError{errors.New("fake for method BeginValidateLicense not implemented")}
}
beginValidateLicense := l.beginValidateLicense.get(req)
if beginValidateLicense == nil {
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/validateLicense`
 regex := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 1 {
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 body,
err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.BeginValidateLicense(req.Context(), body, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
```

```
  }
  beginValidateLicense = &respr
  l.beginValidateLicense.add(req, beginValidateLicense)
 }

 resp, err := server.PollerResponderNext(beginValidateLicense, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginValidateLicense.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginValidateLicense) {
  l.beginValidateLicense.remove(req)
 }

 return resp, nil
}
```

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```
//go:build go1.18
// +build go1.18

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// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package armhybridcompute

import (
 "context"
 "errors"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/arm"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/policy"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "net/http"
 "net/url"
 "strings"
)
```

```
// LicensesClient contains the methods for the Licenses group.
// Don't use this type directly, use NewLicensesClient() instead.
type LicensesClient struct {
 internal       *arm.Client
 subscriptionID string
}

// NewLicensesClient creates a new instance of LicensesClient with the specified values.
//   - subscriptionID - The ID of the target
 subscription.
//   - credential - used to authorize requests. Usually a credential from azidentity.
//   - options - pass nil to accept the default values.
func NewLicensesClient(subscriptionID string, credential azcore.TokenCredential, options *arm.ClientOptions)
(*LicensesClient, error) {
 cl, err := arm.NewClient(moduleName, moduleVersion, credential, options)
 if err != nil {
  return nil, err
 }
 client := &LicensesClient{
  subscriptionID: subscriptionID,
  internal:       cl,
 }
 return client, nil
}

// BeginCreateOrUpdate - The operation to create or update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - parameters - Parameters supplied to the Create license operation.
//   - options - LicensesClientBeginCreateOrUpdateOptions contains the optional parameters
 for the LicensesClient.BeginCreateOrUpdate
//     method.
func (client *LicensesClient) BeginCreateOrUpdate(ctx context.Context, resourceGroupName string, licenseName
string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions)
(*runtime.Poller[LicensesClientCreateOrUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.createOrUpdate(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
```

```
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// CreateOrUpdate - The operation to create or update a license.
// If the
 operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) createOrUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginCreateOrUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.createOrUpdateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// createOrUpdateCreateRequest creates
 the CreateOrUpdate request.
func (client *LicensesClient) createOrUpdateCreateRequest(ctx context.Context, resourceGroupName string,
licenseName string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*policy.Request,
error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
```

```
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx,
 http.MethodPut, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginDelete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientBeginDeleteOptions contains the optional parameters for the
LicensesClient.BeginDelete method.
func (client *LicensesClient) BeginDelete(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*runtime.Poller[LicensesClientDeleteResponse],
 error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.deleteOperation(ctx, resourceGroupName, licenseName, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
```

```
  })
 }
}

// Delete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) deleteOperation(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*http.Response, error) {
 var err error
 const
 operationName = "LicensesClient.BeginDelete"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.deleteCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK, http.StatusNoContent) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// deleteCreateRequest creates the Delete request.
func (client *LicensesClient) deleteCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientBeginDeleteOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
```

```
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodDelete, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// Get - Retrieves information about the view of a license.
//
 If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientGetOptions contains the optional parameters for the LicensesClient.Get method.
func (client *LicensesClient) Get(ctx context.Context, resourceGroupName string, licenseName string, options
*LicensesClientGetOptions) (LicensesClientGetResponse, error) {
 var err error
 const operationName = "LicensesClient.Get"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.getCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return LicensesClientGetResponse{}, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil
 {
  return LicensesClientGetResponse{}, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return LicensesClientGetResponse{}, err
 }
 resp, err := client.getHandleResponse(httpResp)
 return resp, err
}

// getCreateRequest creates the Get request.
func (client *LicensesClient) getCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientGetOptions) (*policy.Request, error) {
```

```
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
 licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// getHandleResponse handles the Get response.
func (client *LicensesClient) getHandleResponse(resp *http.Response) (LicensesClientGetResponse, error) {
 result := LicensesClientGetResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.License); err != nil {
  return LicensesClientGetResponse{}, err
 }
 return result, nil
}

// NewListByResourceGroupPager - The operation to get all licenses of a non-Azure machine
//
// Generated from
 API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - options - LicensesClientListByResourceGroupOptions contains the optional parameters for the
LicensesClient.NewListByResourceGroupPager
//     method.
func (client *LicensesClient) NewListByResourceGroupPager(resourceGroupName string, options
*LicensesClientListByResourceGroupOptions) *runtime.Pager[LicensesClientListByResourceGroupResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListByResourceGroupResponse]{
  More: func(page LicensesClientListByResourceGroupResponse) bool {
```

```
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListByResourceGroupResponse)
(LicensesClientListByResourceGroupResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListByResourceGroupPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp,
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listByResourceGroupCreateRequest(ctx, resourceGroupName, options)
   }, nil)
   if err != nil {
    return LicensesClientListByResourceGroupResponse{}, err
   }
   return client.listByResourceGroupHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listByResourceGroupCreateRequest creates the ListByResourceGroup request.
func (client *LicensesClient) listByResourceGroupCreateRequest(ctx context.Context, resourceGroupName string,
options *LicensesClientListByResourceGroupOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es"
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}
```

```
// listByResourceGroupHandleResponse handles the ListByResourceGroup response.
func (client *LicensesClient) listByResourceGroupHandleResponse(resp *http.Response)
(LicensesClientListByResourceGroupResponse, error) {
 result := LicensesClientListByResourceGroupResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListByResourceGroupResponse{}, err
 }
 return
 result, nil
}

// NewListBySubscriptionPager - The operation to get all licenses of a non-Azure machine
//
// Generated from API version 2023-06-20-preview
//   - options - LicensesClientListBySubscriptionOptions contains the optional parameters for the
LicensesClient.NewListBySubscriptionPager
//     method.
func (client *LicensesClient) NewListBySubscriptionPager(options *LicensesClientListBySubscriptionOptions)
*runtime.Pager[LicensesClientListBySubscriptionResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListBySubscriptionResponse]{
  More: func(page LicensesClientListBySubscriptionResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListBySubscriptionResponse)
(LicensesClientListBySubscriptionResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListBySubscriptionPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp,
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listBySubscriptionCreateRequest(ctx, options)
   }, nil)
   if err != nil {
    return LicensesClientListBySubscriptionResponse{}, err
   }
   return client.listBySubscriptionHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listBySubscriptionCreateRequest creates the ListBySubscription request.
func (client *LicensesClient) listBySubscriptionCreateRequest(ctx context.Context, options
*LicensesClientListBySubscriptionOptions) (*policy.Request, error) {
```

```
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/licenses"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet,
 runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listBySubscriptionHandleResponse handles the ListBySubscription response.
func (client *LicensesClient) listBySubscriptionHandleResponse(resp *http.Response)
(LicensesClientListBySubscriptionResponse, error) {
 result := LicensesClientListBySubscriptionResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListBySubscriptionResponse{}, err
 }
 return result, nil
}

// BeginUpdate - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName
 - The name of the license.
//   - parameters - Parameters supplied to the Update license operation.
//   - options - LicensesClientBeginUpdateOptions contains the optional parameters for the
LicensesClient.BeginUpdate method.
func (client *LicensesClient) BeginUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions)
(*runtime.Poller[LicensesClientUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.update(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientUpdateResponse]{
   Tracer: client.internal.Tracer(),
```

```
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientUpdateResponse]{
   Tracer:
 client.internal.Tracer(),
  })
 }
}

// Update - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) update(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.updateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return
 nil, err
 }
 return httpResp, nil
}

// updateCreateRequest creates the Update request.
func (client *LicensesClient) updateCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
```

```
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}",
 url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodPatch, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - parameters - Parameters supplied to the license validation operation.
//   - options - LicensesClientBeginValidateLicenseOptions contains the optional parameters for the
LicensesClient.BeginValidateLicense
//     method.
func (client *LicensesClient) BeginValidateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions)
 (*runtime.Poller[LicensesClientValidateLicenseResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.validateLicense(ctx, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientValidateLicenseResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientValidateLicenseResponse]{
   Tracer: client.internal.Tracer(),
```

```
  })
 }
}

// ValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) validateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions)
 (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginValidateLicense"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.validateLicenseCreateRequest(ctx, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// validateLicenseCreateRequest creates the ValidateLicense request.
func (client *LicensesClient) validateLicenseCreateRequest(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/validateLicense"
 if client.subscriptionID
 == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodPost, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
```

```
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}
```

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```
//go:build go1.18
// +build go1.18

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package armhybridcompute_test
```

```
import (
 "context"
 "log"

 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/azidentity"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
)

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_ValidateLicense.json
func ExampleLicensesClient_BeginValidateLicense() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err !=
 nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginValidateLicense(ctx, armhybridcompute.License{
  Location: to.Ptr("eastus2euap"),
  Properties: &armhybridcompute.LicenseProperties{
   LicenseDetails: &armhybridcompute.LicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err !=
 nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
```

```
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID: to.Ptr("/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/Licenses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](2),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //
    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_CreateOrUpdate.json
func ExampleLicensesClient_BeginCreateOrUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginCreateOrUpdate(ctx, "myResourceGroup",
 "{licenseName}", armhybridcompute.License{
  Location: to.Ptr("eastus2euap"),
  Properties: &armhybridcompute.LicenseProperties{
   LicenseDetails: &armhybridcompute.LicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
```

```
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values
 in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](2),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated
 from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_Update.json
func ExampleLicensesClient_BeginUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
```

```
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginUpdate(ctx, "myResourceGroup", "{licenseName}",
armhybridcompute.LicenseUpdate{
  Properties: &armhybridcompute.LicenseUpdateProperties{
   LicenseDetails: &armhybridcompute.LicenseUpdatePropertiesLicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors:
 to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/lice
nses/{licenseName}"),
 //
  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
```

```
// },
// }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_Get.json
func ExampleLicensesClient_Get() {
cred, err := azidentity.NewDefaultAzureCredential(nil)
if
err != nil {
 log.Fatalf("failed to obtain a credential: %v", err)
}
ctx := context.Background()
clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
if err != nil {
 log.Fatalf("failed to create client: %v", err)
}
res, err := clientFactory.NewLicensesClient().Get(ctx, "myResourceGroup", "{licenseName}", nil)
if err != nil {
 log.Fatalf("failed to finish the request: %v", err)
}
// You could use response here. We use blank identifier for just demo purposes.
_ = res
// If the HTTP response code is 200 as defined in example definition, your response structure would look as follows. Please pay attention that all the values in the output are fake values for just demo purposes.
// res.License = armhybridcompute.License{
//  Name: to.Ptr("{licenseName}"),
//  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
//  ID: to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Licenses/{licenseName}"),
//  Location: to.Ptr("eastus2euap"),
//  Properties: &armhybridcompute.LicenseProperties{
//   LicenseDetails: &armhybridcompute.LicenseDetails{
//    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
//    AssignedLicenses: to.Ptr[int32](8),
//    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//    ImmutableID: to.Ptr("<generated Guid>"),
//    Processors: to.Ptr[int32](6),
//    State: to.Ptr(armhybridcompute.LicenseStateActivated),
//    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//   },
//   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
//   TenantID: to.Ptr("{tenandId}"),
//  },
// }
```

```
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_Delete.json
func ExampleLicensesClient_BeginDelete()
 {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginDelete(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 _, err = poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-
preview/examples/license/License_ListByResourceGroup.json
func ExampleLicensesClient_NewListByResourceGroupPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if
 err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListByResourceGroupPager("myResourceGroup", nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
```

```
  // You could use page here. We use blank identifier for just demo purposes.
  _ = v
 }
 // If the HTTP response code is 200 as defined in example definition, your page structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // page.LicensesListResult = armhybridcompute.LicensesListResult{
 //  Value: []*armhybridcompute.License{
 //   {
 //    Name: to.Ptr("{licenseName}"),
 //
   Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //    Location: to.Ptr("eastus2euap"),
 //    Properties: &armhybridcompute.LicenseProperties{
 //     LicenseDetails: &armhybridcompute.LicenseDetails{
 //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //      AssignedLicenses: to.Ptr[int32](8),
 //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //      ImmutableID: to.Ptr("<generated Guid>"),
 //      Processors: to.Ptr[int32](6),
 //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //     },
 //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //     TenantID: to.Ptr("{tenandId}"),
 //    },
 //  }},
 // }
 }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-
preview/examples/license/License_ListBySubscription.json
func
 ExampleLicensesClient_NewListBySubscriptionPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
```

```
 pager := clientFactory.NewLicensesClient().NewListBySubscriptionPager(nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
   // You could use page here. We use blank identifier for just demo purposes.
   _ = v
  }
  // If the HTTP response code is 200 as defined in example definition, your page structure would look as
 follows. Please pay attention that all the values in the output are fake values for just demo purposes.
  // page.LicensesListResult = armhybridcompute.LicensesListResult{
  //  Value: []*armhybridcompute.License{
  //   {
  //    Name: to.Ptr("{licenseName}"),
  //    Type: to.Ptr("Microsoft.HybridCompute/licenses"),
  //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
  //    Location: to.Ptr("eastus2euap"),
  //    Properties: &armhybridcompute.LicenseProperties{
  //     LicenseDetails: &armhybridcompute.LicenseDetails{
  //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
  //      AssignedLicenses: to.Ptr[int32](8),
  //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
  //      ImmutableID: to.Ptr("<generated Guid>"),
  //      Processors: to.Ptr[int32](6),
  //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
  //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
  //
     },
  //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  //     TenantID: to.Ptr("{tenandId}"),
  //    },
  //  }},
  // }
 }
}
```

1.5249 cryptsetup 2.4.3-1ubuntu1.3

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package copyright

import (
 "bytes"
 "internal/testenv"
 "io"
 "io/fs"
 "os"
 "path/filepath"
 "testing"
)

var copyright = []byte("Copyright")

var permitted = [][]byte{
 []byte("// Code generated by "),
 []byte("// Code generated from "),
 []byte("// Created by cgo -cdefs"),
 []byte("// DO NOT EDIT\n// generated by:"),
 []byte("// Empty assembly file"),
 []byte("// Generated using cgo"),
 []byte("// Original source:\n//\thttp://www.zorinaq.com/papers/md5-amd64.html"), // public domain crypto/md5
```

```
 []byte("// created by cgo -cdefs"),
 []byte("// go run mkasm.go"),
 []byte("// mkerrors"),
 []byte("// mksys"),
 []byte("// run\n// Code generated by"), // cmd/compile/internal/test/constFold_test.go
}

func TestCopyright(t *testing.T) {
 buf := make([]byte, 2048)
 filepath.WalkDir(filepath.Join(testenv.GOROOT(t), "src"), func(path string,
 d fs.DirEntry, err error) error {
  if d.IsDir() && (d.Name() == "testdata" || d.Name() == "vendor") {
   return filepath.SkipDir
  }
  switch filepath.Ext(d.Name()) {
  default:
   return nil
  case ".s", ".go":
   // check
  }

  f, err := os.Open(path)
  if err != nil {
   t.Error(err)
   return nil
  }
  defer f.Close()
  n, err := f.Read(buf)
  if err != nil && err != io.EOF {
   t.Error(err)
   return nil
  }
  b := buf[:n]
  if bytes.Contains(b, copyright) {
   return nil
  }
  for _, ok := range permitted {
   if bytes.HasPrefix(b, ok) {
    return nil
   }
  }
  t.Errorf("%s: missing copyright notice", path)
  return nil
 })
}
```

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John R. Hauser
2018 January 20

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```
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{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_file, "__acl_aclcheck_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_link, "__acl_aclcheck_link", "%s(\"%s\", %d, %#x)", NULL, NULL
```

```
},
{ TARGET_FREEBSD_NR___acl_delete_fd,
 "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_file, "__acl_delete_file", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_link, "__acl_delete_link", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_file, "__acl_get_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_link, "__acl_get_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_fd, "__acl_set_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_file, "__acl_set_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_link, "__acl_set_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___getcwd, "__getcwd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___semctl, "__semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___sysctl,
 "__sysctl", NULL, print_sysctl, NULL },
{ TARGET_FREEBSD_NR__umtx_op, "_umtx_op", "%s(%#x, %d, %d, %#x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d,%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept4, "accept4", "%s(%d,%d,%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bindat, "bindat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_enter, "cap_enter", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_fcntls_get, "cap_fcntls_get", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_fcntls_limit, "cap_fcntls_limit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_getmode, "cap_getmode", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_ioctls_get, "cap_ioctls_get", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_ioctls_limit,
 "cap_ioctls_limit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_rights_limit, "cap_rights_limit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chflagsat, "chflagsat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_close, "close", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_connectat, "connectat", "%s(%d,%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_cpuset_getdomain, "cpuset_getdomain", NULL, NULL,
 NULL },
{ TARGET_FREEBSD_NR_cpuset_setdomain, "cpuset_setdomain", NULL, NULL, NULL },
```

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{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s(\"%s\",%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s(\"%s\", %d, \"%s\", %d, \"%s\"", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL
},
{
 TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL
},
{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d, %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s(\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s(\"%s\", %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
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},
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL,
NULL },
{ TARGET_FREEBSD_NR_fchdir, "fchdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchflags, "fchflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchmod, "fchmod", "%s(%d,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fcntl, "fcntl",
 NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fdatasync, "fdatasync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_fhopen, "fhopen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstat, "fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fhstat, "freebsd11_fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fhstatfs, "freebsd11_fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fstat, "freebsd11_fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fstatat,
 "freebsd11_fstatat", "%s(%d,\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fstatfs, "freebsd11_fstatfs", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL },
```

```
{ TARGET_FREEBSD_NR_futimens, "futimens", "%s(%d,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_futimes, "futimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_getdirentries, "freebsd11_getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getegid, "getegid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getfh, "getfh", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getfsstat, "getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_getfsstat, "freebsd11_getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getgid, "getgid",
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{ TARGET_FREEBSD_NR_getgroups, "getgroups", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_getlogin, "getlogin", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_getpgid, "getpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgrp, "getpgrp", "%s()", NULL, NULL },
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{ TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getrandom, "getrandom", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, print_ioctl, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_kevent, "freebsd11_kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen, "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_lstat,
 "freebsd11_lstat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknodat, "mknodat", "%s(%d, \"%s\",%#o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_mknod, "freebsd11_mknod", "%s(\"%s\",%#o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_mknodat, "freebsd11_mknodat", "%s(%d, \"%s\",%#o,%#x)", NULL,
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{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mount, "mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl,
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{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s(\"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d, \"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd10_pipe, "freebsd10_pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pipe2, "pipe2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_posix_fallocate,
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{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_profil, "profil", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_readlink, "readlink", "%s(\"%s\",%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork,
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 "rfork", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_sched_get_priority_max, "sched_get_priority_max", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_shmctl, "shmctl",
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{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending, "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_stat, "freebsd11_stat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_statfs, "freebsd11_statfs", "%s(\"%s\",%p)", NULL, NULL },
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{ TARGET_FREEBSD_NR_symlink, "symlink",
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{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, print_sysarch, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_create, "timer_create" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_delete, "timer_delete" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_settime, "timer_settime" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_gettime, "timer_gettime" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_getoverrun, "timer_getoverrun" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)",
 NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimensat, "utimensat", "%s(%d,%s,%p,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait6, "wait6", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_posix_openpt, "posix_openpt", "%s(%d)", NULL,
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Key Dates
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* August 3, 2017

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Proposals (RFCs):
https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html

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==========
= Change Description / Commit Message / Patch Email =
==========

Your change description should use the standard format for a
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and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch
PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [Repository/Branch PATCH]. The remaining portion of the
  commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "Repository" is the identifier of the repository the patch applies.
  This identifier should only be provided for repositories other than
  'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is
the identifier of the branch the patch applies. This
  identifier should only be provided for branches other than 'edk2/master'.
  For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or
  'staging/edk2-test'.
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  'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
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= Code Contributions =
==========

To make a contribution to a TianoCore project, follow these steps.
1. Create a change description in the format specified below to
use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature,
and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the
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contribution agreement. Your "Contributed-under" message
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==========
= Change Description / Commit Message / Patch Email =
==========

Your change description should use the standard format for a
commit message, and must include your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

```
From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or
attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [PATCH]. The remaining portion of the commit message
  is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short idenfier for the affected code.  For
  example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
  the change.  Each line should be less than ~70 characters.
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John R. Hauser
2018 January 20

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Version 2, June 1991

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Index: debug.c
===
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3

```
diff -u -u -r1.1 -r1.3
--- debug.c 7 Sep 2007 10:01:21 -0000 1.1
+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3
@@ -52,7 +52,11 @@
void X86EMU_trace_regs (void)
{
   if (DEBUG_TRACE()) {
-       x86emu_dump_regs();
+ if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+        x86emu_dump_xregs();
+ } else {
+        x86emu_dump_regs();
+ }
   }
   if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
       printk("%04x:%04x ",M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
   for (i=0; i< M.x86.enc_pos; i++) {
       sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
   }
-   printk("%-20s",buf1);
+   printk("%-20s ",buf1);
}

static void print_decoded_instruction (void)
Index: ops2.c
===================================================================
RCS file:
 /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops2.c 20 Mar 2008 15:48:34 -0000 1.3
@@ -149,8 +149,69 @@
   target += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", target);
   TRACE_AND_STEP();
-   if (cond)
+   if (cond) {
       M.x86.R_IP = (u16)target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+   }
+   DECODE_CLEAR_SEGOVR();
+   END_OF_INSTR();
+}
+
+/*****************************************************************************
```

```
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+****************************************************************************/
+s32 x86emu_bswap(s32 reg)
+{
+   // perform the byte swap
+   s32 temp = reg;
+   reg = (temp & 0xFF000000) >> 24;
+   reg |= (temp & 0xFF0000) >> 8;
+   reg |= (temp & 0xFF00) << 8;
+   reg |= (temp & 0xFF) << 24;
+   return reg;
+}
+
+void x86emuOp2_bswap(u8 op2)
+{
+
   /* byte swap 32 bit register */
+    START_OF_INSTR();
+    DECODE_PRINTF("BSWAP\t");
+    switch (op2) {
+      case 0xc8:
+        DECODE_PRINTF("EAX\n");
+        M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+        break;
+      case 0xc9:
+        DECODE_PRINTF("ECX\n");
+        M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
+        break;
+      case 0xca:
+        DECODE_PRINTF("EDX\n");
+        M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+        break;
+      case 0xcb:
+        DECODE_PRINTF("EBX\n");
+        M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+        break;
+      case 0xcc:
+        DECODE_PRINTF("ESP\n");
+        M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+        break;
+      case 0xcd:
+        DECODE_PRINTF("EBP\n");
+        M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+        break;
+      case 0xce:
+        DECODE_PRINTF("ESI\n");
+        M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
```

```
+       break;
+      case 0xcf:
+       DECODE_PRINTF("EDI\n");
+       M.x86.R_EDI
 = x86emu_bswap(M.x86.R_EDI);
+       break;
+    }
+    TRACE_AND_STEP();
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -1702,14 +1763,14 @@
/*  0xc5 */ x86emuOp2_illegal_op,
/*  0xc6 */ x86emuOp2_illegal_op,
/*  0xc7 */ x86emuOp2_illegal_op,
-/*  0xc8 */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xc9 */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xca */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcb */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcc */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcd */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xce */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcf */ x86emuOp2_illegal_op,  /* TODO: bswap */
+/*  0xc8 */ x86emuOp2_bswap,
+/*  0xc9 */ x86emuOp2_bswap,
+/*  0xca */ x86emuOp2_bswap,
+/*  0xcb */ x86emuOp2_bswap,
+/*  0xcc */ x86emuOp2_bswap,
+/*  0xcd */ x86emuOp2_bswap,
+/*  0xce */ x86emuOp2_bswap,
+/*  0xcf */ x86emuOp2_bswap,

/*  0xd0 */ x86emuOp2_illegal_op,
/*  0xd1 */ x86emuOp2_illegal_op,
Index:
 ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops.c 20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
    imm = (s8)fetch_byte_imm();
    DECODE_PRINTF2("PUSH\t%d\n", imm);
    TRACE_AND_STEP();
-    push_word(imm);
+    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
```

```
+       push_long(imm);
+    } else {
+       push_word(imm);
+    }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@
   target = (u16)(M.x86.R_IP + (s16)offset);
   DECODE_PRINTF2("%x\n", target);
   TRACE_AND_STEP();
-   if (cond)
+    if (cond) {
       M.x86.R_IP = target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+    }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
   count = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE))
 {
       /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
       M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX = 0;
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   }
   while (count--) {
@@ -2526,6 +2534,8 @@
       store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
       M.x86.R_SI += inc;
       M.x86.R_DI += inc;
+       if (M.x86.intr & INTR_HALTED)
+           break;
   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -2559,9 +2569,11 @@
   count = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
       /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
```

```
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode
 & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2574,6 +2586,8 @@
        }
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
+       if (M.x86.intr & INTR_HALTED)
+           break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2598,16 +2612,21 @@

    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* REPE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val1 = fetch_data_byte(M.x86.R_SI);
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
                    cmp_byte(val1, val2);
-           M.x86.R_CX -= 1;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+
                M.x86.R_ECX -= 1;
+           else
+               M.x86.R_CX -= 1;
            M.x86.R_SI += inc;
            M.x86.R_DI += inc;
            if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
            if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+           if (M.x86.intr & INTR_HALTED)
+               break;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
@@ -2644,8 +2663,8 @@
    TRACE_AND_STEP();
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
```

```
        /* REPE  */
-        /* move them until CX is ZERO. */
-        while (M.x86.R_CX != 0) {
+        /* move them until (E)CX is ZERO. */
+        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
           if (M.x86.mode & SYSMODE_PREFIX_DATA) {
              val1 = fetch_data_long(M.x86.R_SI);
              val2 = fetch_data_long_abs(M.x86.R_ES,
 M.x86.R_DI);
@@ -2655,11 +2674,16 @@
              val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
              cmp_word((u16)val1, (u16)val2);
           }
-           M.x86.R_CX -= 1;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+              M.x86.R_ECX -= 1;
+           else
+              M.x86.R_CX -= 1;
           M.x86.R_SI += inc;
           M.x86.R_DI += inc;
           if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
           if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+           if (M.x86.intr & INTR_HALTED)
+              break;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
@@ -2741,11 +2765,16 @@
    TRACE_AND_STEP();
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        while (M.x86.R_CX != 0) {
+        /*
 move them until (E)CX is ZERO. */
+        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
           store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
-           M.x86.R_CX -= 1;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+              M.x86.R_ECX -= 1;
+           else
+              M.x86.R_CX -= 1;
           M.x86.R_DI += inc;
+           if (M.x86.intr & INTR_HALTED)
+              break;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
```

```
@@ -2783,9 +2812,11 @@
   count = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* dont care whether REPE or REPNE */
-      /* move them until CX is ZERO. */
-      count = M.x86.R_CX;
+      /* move them until (E)CX is ZERO. */
+      count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
      M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+          M.x86.R_ECX = 0;

     M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   }
   while (count--) {
@@ -2795,6 +2826,8 @@
         store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
      }
      M.x86.R_DI += inc;
+      if (M.x86.intr & INTR_HALTED)
+          break;
   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -2817,11 +2850,16 @@
      inc = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* dont care whether REPE or REPNE */
-      /* move them until CX is ZERO. */
-      while (M.x86.R_CX != 0) {
+      /* move them until (E)CX is ZERO. */
+      while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
         M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
-         M.x86.R_CX -= 1;
+         if (M.x86.mode & SYSMODE_32BIT_REP)
+             M.x86.R_ECX -= 1;
+         else
+             M.x86.R_CX -= 1;
         M.x86.R_SI += inc;
+         if (M.x86.intr & INTR_HALTED)
+
            break;
      }
      M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   } else {
@@ -2859,9 +2897,11 @@
   count = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
```

```
      /* dont care whether REPE or REPNE */
-      /* move them until CX is ZERO. */
-      count = M.x86.R_CX;
+      /* move them until (E)CX is ZERO. */
+      count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
      M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+          M.x86.R_ECX = 0;
      M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   }
   while (count--) {
@@ -2871,6 +2911,8 @@
          M.x86.R_AX = fetch_data_word(M.x86.R_SI);
      }
      M.x86.R_SI += inc;
+      if (M.x86.intr & INTR_HALTED)
+          break;
   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -2894,26 +2936,36 @@
      inc = 1;
   if (M.x86.mode & SYSMODE_PREFIX_REPE) {
      /*
 REPE  */
-      /* move them until CX is ZERO. */
-      while (M.x86.R_CX != 0) {
+      /* move them until (E)CX is ZERO. */
+      while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
         val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
         cmp_byte(M.x86.R_AL, val2);
-         M.x86.R_CX -= 1;
+         if (M.x86.mode & SYSMODE_32BIT_REP)
+             M.x86.R_ECX -= 1;
+         else
+             M.x86.R_CX -= 1;
         M.x86.R_DI += inc;
         if (ACCESS_FLAG(F_ZF) == 0)
            break;
+         if (M.x86.intr & INTR_HALTED)
+             break;
      }
      M.x86.mode &= ~SYSMODE_PREFIX_REPE;
   } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
      /* REPNE  */
-      /* move them until CX is ZERO. */
-      while (M.x86.R_CX != 0) {
+      /* move them until (E)CX is ZERO. */
```

```
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {

         val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
         cmp_byte(M.x86.R_AL, val2);
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+              M.x86.R_ECX -= 1;
+          else
+              M.x86.R_CX -= 1;
         M.x86.R_DI += inc;
         if (ACCESS_FLAG(F_ZF))
            break;         /* zero flag set means equal */
+          if (M.x86.intr & INTR_HALTED)
+              break;
      }
      M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
   } else {
@@ -2951,8 +3003,8 @@
   TRACE_AND_STEP();
   if (M.x86.mode & SYSMODE_PREFIX_REPE) {
      /* REPE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
         if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_long(M.x86.R_EAX,
 val);
@@ -2960,16 +3012,21 @@
            val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_word(M.x86.R_AX, (u16)val);
         }
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+              M.x86.R_ECX -= 1;
+          else
+              M.x86.R_CX -= 1;
         M.x86.R_DI += inc;
         if (ACCESS_FLAG(F_ZF) == 0)
            break;
+          if (M.x86.intr & INTR_HALTED)
+              break;
      }
      M.x86.mode &= ~SYSMODE_PREFIX_REPE;
   } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
      /* REPNE  */
-       /* move them until CX is ZERO. */
```

```
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          if (M.x86.mode & SYSMODE_PREFIX_DATA) {
             val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
             cmp_long(M.x86.R_EAX,
 val);
@@ -2977,10 +3034,15 @@
             val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
             cmp_word(M.x86.R_AX, (u16)val);
          }
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+             M.x86.R_ECX -= 1;
+          else
+             M.x86.R_CX -= 1;
          M.x86.R_DI += inc;
          if (ACCESS_FLAG(F_ZF))
             break;         /* zero flag set means equal */
+          if (M.x86.intr & INTR_HALTED)
+             break;
       }
       M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
    } else {
@@ -3238,9 +3300,9 @@
    DECODE_PRINTF("RET\t");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
 TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -3254,9 +3316,9
 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RET\n");
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
 TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -3471,10 +3533,10 @@
```

```
   DECODE_PRINTF("RETF\t");
   imm = fetch_word_imm();
   DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
 TRACE_AND_STEP();
   M.x86.R_IP = pop_word();
   M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
   M.x86.R_SP += imm;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
   START_OF_INSTR();
   DECODE_PRINTF("RETF\n");
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
 TRACE_AND_STEP();
   M.x86.R_IP = pop_word();
   M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
   DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
   ip += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
   TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF))      /* CX != 0 and !ZF */
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.R_ECX -= 1;
+   else
+       M.x86.R_CX -= 1;
+   if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
!ACCESS_FLAG(F_ZF))      /* (E)CX != 0 and !ZF */
       M.x86.R_IP = ip;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -4041,8 +4106,11 @@
   ip += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
   TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF))       /* CX != 0 and ZF */
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.R_ECX -= 1;
+   else
+       M.x86.R_CX -= 1;
```

```
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
ACCESS_FLAG(F_ZF))      /* (E)CX != 0 and ZF */
         M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4062,8 +4130,11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
-    if (M.x86.R_CX != 0)
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0)      /* (E)CX != 0 */
        M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4085,8 +4156,10 @@
    target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
    TRACE_AND_STEP();
-    if (M.x86.R_CX == 0)
+    if (M.x86.R_CX == 0) {
        M.x86.R_IP = target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4213,6 +4286,7 @@
    ip = (s16)fetch_word_imm();
    ip += (s16)M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs,
 M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = (u16)ip;
    DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
    cs = fetch_word_imm();
    DECODE_PRINTF2("%04x:", cs);
    DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = ip;
    M.x86.R_CS = cs;
```

```
@@ -4254,6 +4329,7 @@
   offset = (s8)fetch_byte_imm();
   target = (u16)(M.x86.R_IP + offset);
   DECODE_PRINTF2("%x\n", target);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
   TRACE_AND_STEP();
   M.x86.R_IP = target;
   DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
   DECODE_PRINTF("REPNE\n");
   TRACE_AND_STEP();
   M.x86.mode |= SYSMODE_PREFIX_REPNE;
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.mode |= SYSMODE_32BIT_REP;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
   DECODE_PRINTF("REPE\n");
   TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPE;
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.mode |= SYSMODE_32BIT_REP;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
           break;
       case 4:        /* jmp word ptr ... */
           destval = fetch_data_word(destoffset);
+           JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
           TRACE_AND_STEP();
           M.x86.R_IP = destval;
           break;
       case 5:        /* jmp far ptr ... */
           destval = fetch_data_word(destoffset);
           destval2 = fetch_data_word(destoffset + 2);
+           JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
           TRACE_AND_STEP();
           M.x86.R_IP = destval;
           M.x86.R_CS = destval2;
Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision
 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
```

```
--- prim_ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ prim_ops.c 16 Jan 2008 14:18:15 -0000 1.3
@@ -1921,7 +1921,7 @@
void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
{
#ifdef  __HAS_LONG_LONG__
-    s64 res = (s64)d * (s64)s;
+    s64 res = (s64)(s32)d * (s64)(s32)s;

    *res_lo = (u32)res;
    *res_hi = (u32)(res >> 32);
@@ -2013,7 +2013,7 @@
void mul_long(u32 s)
{
#ifdef  __HAS_LONG_LONG__
-    u64 res = (u32)M.x86.R_EAX * (u32)s;
+    u64 res = (u64)M.x86.R_EAX * s;

    M.x86.R_EAX = (u32)res;
    M.x86.R_EDX = (u32)(res >> 32);
@@ -2312,16 +2312,15 @@
    }
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* in until CX is ZERO. */
-       u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+       /* in until (E)CX is ZERO. */
+       u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
                    M.x86.R_ECX : M.x86.R_CX);
-
        while (count--) {
         single_in(size);
         M.x86.R_DI += inc;
         }
        M.x86.R_CX = 0;
-       if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+       if (M.x86.mode & SYSMODE_32BIT_REP) {
           M.x86.R_ECX = 0;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
@@ -2355,15 +2354,15 @@
    }
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* out until CX is ZERO. */
-       u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+       /* out until (E)CX is ZERO. */
+       u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
```

```
                M.x86.R_ECX : M.x86.R_CX);
        while (count--) {
          single_out(size);
          M.x86.R_SI += inc;
          }
        M.x86.R_CX = 0;
-        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+        if (M.x86.mode & SYSMODE_32BIT_REP) {
           M.x86.R_ECX = 0;
        }
        M.x86.mode
 &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
Index: sys.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
retrieving revision 1.1
retrieving revision 1.2
diff -u -u -r1.1 -r1.2
--- sys.c 7 Sep 2007 10:01:21 -0000 1.1
+++ sys.c 7 Sep 2007 10:03:13 -0000 1.2
@@ -45,11 +45,6 @@
#include <x86emu/regs.h>
#include "debug.h"
#include "prim_ops.h"
-#ifdef LINUXBIOS_VERSION
-#include "io.h"
-#else
-#include <sys/io.h>
-#endif

#ifdef IN_MODULE
#include "xf86_ansic.h"
@@ -220,7 +215,7 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("inb %#04x \n", addr);)
- return inb(addr);
+ return 0;
}

/*****************************************************************************
@@ -235,7 +230,7 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("inw %#04x \n", addr);)
- return inw(addr);
+ return 0;
}
```

```
/*****************************************************************************
@@ -250,7 +245,7 @@
{
 DB(if (DEBUG_IO_TRACE())
   printk("inl %#04x \n", addr);)
- return inl(addr);
+ return 0;
}

/*****************************************************************************
@@ -264,7 +259,6 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("outb %#02x -> %#04x \n", val, addr);)
- outb(val, addr);
 return;
}

@@ -279,7 +273,6 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("outw %#04x -> %#04x \n", val, addr);)
- outw(val, addr);
 return;
}

@@ -295,7 +288,6 @@
 DB(if (DEBUG_IO_TRACE())
       printk("outl %#08x -> %#04x \n", val, addr);)

- outl(val, addr);
 return;
}

@@ -405,6 +397,6 @@

void X86EMU_setMemBase(void *base, size_t size)
{
- M.mem_base = (int) base;
+ M.mem_base = (unsigned long) base;
 M.mem_size = size;
}
Index: include/x86emu/debug.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
```

```
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h 7
 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/debug.h 20 Mar 2008 15:25:27 -0000 1.4
@@ -40,8 +40,6 @@
#ifndef __X86EMU_DEBUG_H
#define __X86EMU_DEBUG_H

-//#define DEBUG 0
-#undef DEBUG
/*---------------------- Macros and type definitions ----------------------*/

/* checks to be enabled for "runtime" */
@@ -78,6 +76,8 @@
# define DEBUG_SYSINT()         (M.x86.debug & DEBUG_SYSINT_F)
# define DEBUG_TRACECALL()      (M.x86.debug & DEBUG_TRACECALL_F)
# define DEBUG_TRACECALLREGS()  (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+# define DEBUG_TRACEJMP()       (M.x86.debug & DEBUG_TRACEJMP_F)
+# define DEBUG_TRACEJMPREGS()   (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
# define DEBUG_SYS()            (M.x86.debug & DEBUG_SYS_F)
# define DEBUG_MEM_TRACE()      (M.x86.debug & DEBUG_MEM_TRACE_F)
# define DEBUG_IO_TRACE()       (M.x86.debug & DEBUG_IO_TRACE_F)
@@ -96,6 +96,8 @@
# define DEBUG_SYSINT()         0
# define DEBUG_TRACECALL()      0
# define DEBUG_TRACECALLREGS()  0
+# define DEBUG_TRACEJMP()
       0
+# define DEBUG_TRACEJMPREGS()   0
# define DEBUG_SYS()            0
# define DEBUG_MEM_TRACE()      0
# define DEBUG_IO_TRACE()       0
@@ -169,14 +171,20 @@
  x86emu_dump_regs();                                   \
 if (DEBUG_TRACECALL())                                 \
  printk("%04x:%04x: CALL %s%04x:%04x\n", u , v, s, w, x);
-# define RETURN_TRACE(n,u,v)                            \
+# define RETURN_TRACE(u,v,w,x,s)                        \
 if (DEBUG_TRACECALLREGS())        \
  x86emu_dump_regs();                                   \
 if (DEBUG_TRACECALL())                                 \
-  printk("%04x:%04x: %s\n",u,v,n);
+  printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
+# define  JMP_TRACE(u,v,w,x,s)                          \
+   if (DEBUG_TRACEJMPREGS()) \
+      x86emu_dump_regs(); \
+   if (DEBUG_TRACEJMP()) \
+      printk("%04x:%04x: JMP %s%04x:%04x\n", u , v, s, w, x);
```

```
#else
# define CALL_TRACE(u,v,w,x,s)
-#
 define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
+# define  JMP_TRACE(u,v,w,x,s)
#endif

#ifdef DEBUG
Index: include/x86emu/regs.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/regs.h 15 Jan 2008 13:46:40 -0000 1.4
@@ -231,6 +231,9 @@
#define SYSMODE_PREFIX_REPNE    0x00000100
#define SYSMODE_PREFIX_DATA     0x00000200
#define SYSMODE_PREFIX_ADDR     0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP       0x00000800
#define SYSMODE_INTR_PENDING    0x10000000
#define SYSMODE_EXTRN_INTR      0x20000000
#define SYSMODE_HALTED          0x40000000
@@ -250,7 +253,8 @@
       SYSMODE_SEGOVR_GS      | \
      SYSMODE_SEGOVR_SS      | \
      SYSMODE_PREFIX_DATA    | \
-      SYSMODE_PREFIX_ADDR)
+      SYSMODE_PREFIX_ADDR    | \
+      SYSMODE_32BIT_REP)

#define  INTR_SYNCH          0x1
#define  INTR_ASYNCH         0x2
@@ -274,9 +278,9 @@
    */
   u32                     mode;
   volatile int              intr;   /* mask of pending interrupts */
- int                     debug;
+    volatile int                     debug;
#ifdef DEBUG
- int                     check;
+    int                     check;
   u16                     saved_ip;
   u16                     saved_cs;
```

```
    int                     enc_pos;
Index: include/x86emu/x86emu.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h 7 Sep 2007 10:01:21
 -0000 1.1
+++ include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000 1.3
@@ -47,6 +47,7 @@
#include <console.h>
#define printk(x...) printk(BIOS_DEBUG, x)
#else
+#include <stdio.h>
#define printk printf
#endif

@@ -189,6 +181,8 @@
#define DEBUG_TRACECALL_REGS_F  0x004000
#define DEBUG_DECODE_NOPRINT_F  0x008000
#define DEBUG_SAVE_IP_CS_F      0x010000
+#define DEBUG_TRACEJMP_F        0x020000
+#define DEBUG_TRACEJMP_REGS_F   0x040000
#define DEBUG_SYS_F             (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void  X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@
#ifdef  __cplusplus
}                       /* End of "C" linkage for C++    */
#endif
-
#endif /* __X86EMU_X86EMU_H */
```

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  subdir_done()
endif

bsd_user_ss.add(files(
 'bsdload.c',
 'elfload.c',
 'main.c',
 'mmap.c',
 'signal.c',
 'strace.c',
 'syscall.c',
 'uaccess.c',
))

# Pull in the OS-specific build glue, if any
subdir(targetos)
TARGET_ARCH=i386
TARGET_XML_FILES= gdb-xml/i386-32bit.xml
Valid-License-Identifier: BSD-2-Clause
SPDX-URL: https://spdx.org/licenses/BSD-2-Clause.html
Usage-Guide:
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John R. Hauser
2018 January 20

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1.5260 libxml2 2.13.4-r5

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```
# Contributor: Patrycja Rosa <alpine@ptrcnull.me>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=bsd-compat-headers
pkgver=0.7.2
pkgrel=6
pkgdesc="BSD compatibility headers (cdefs, queue, tree)"
url="https://gitlab.alpinelinux.org/alpine/aports"
arch="noarch"
license="BSD-2-Clause AND BSD-3-Clause"
source="
 cdefs.h
 queue.h
 tree.h
"
builddir="$srcdir"
options="!check" # just headers

package() {
 mkdir -p "$pkgdir"
 install -Dm644 -t "$pkgdir"/usr/include/sys \
  cdefs.h queue.h tree.h
}
sha512sums="
37c8fc73c7aea7b490f7850927e2bb91d12137c9e59e22c084146d515696dbc7973b5de92f4c987ba080dd2502ba8312
7006442c3f019b6447a620c0cae73178  cdefs.h
2f0d5e6e4dc3350285cf17009265dddcbe12431c111868eea39bc8cb038ab7c1f2acacbb21735c4e9d4a1fd106a8fc0f86
11ea33987d4faba37dde5ce6da0750  queue.h
d9ac210d81feb8ad2655bc80fb065d3fe20ae4417b32b4a1711e6738a4870140005c13373b5d1846ef3ce5ae6da45f2da
cef2092881eded0a2e94f6a07752ef3  tree.h
"
```

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The X-Spline code was written Carole Blanc (blanc@labri.u-bordeaux.fr) and Christophe Schlick (schlick@labri.u-bordeaux.fr) starting from an initial implementation done by C. Feuille, S. Grosbois, L. Maziere and L. Minihot as a student practice (Universite Bordeaux, France). For additional information about X-splines, see:
"X-Splines: A Spline Model Designed for the End User" by C. Blanc and C. Schlick, Proceedings of SIGGRAPH'95
http://dept-info.labri.u-bordeaux.fr/~schlick/DOC/sig1.html

```
# Maintainer: fossdd <fossdd@pwned.life>
pkgname=cargo-license
pkgver=0.6.1
pkgrel=1
pkgdesc="Cargo subcommand to see license of dependencies"
url="https://github.com/onur/cargo-license"
arch="all"
license="MIT"
makedepends="cargo cargo-auditable"
source="$pkgname-$pkgver.tar.gz::https://crates.io/api/v1/crates/cargo-license/$pkgver/download"

prepare() {
 default_prepare

 cargo fetch --target="$CTARGET" --locked
}

build() {
 cargo auditable build --release --frozen
}

check() {
 cargo test --frozen
}

package() {
 install -Dm755 target/release/cargo-license -t "$pkgdir"/usr/bin
}
```

```
sha512sums="
36215145e79965be090ae2f5ce6f5eb208465eb67a94c26bed1fe70a131c46c6dc35695e30852759b7366883fbc3caf00
272d796ac634f0a5e1d49232b6b29d5  cargo-license-0.6.1.tar.gz
"
# Contributor: Dhruvin Gandhi <contact@dhru.vin>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=py3-license-expression
_pkgname=license_expression
pkgver=30.4.0
pkgrel=0
pkgdesc="Library to parse, compare, simplify and normalize license expressions"
url="https://github.com/nexB/license-expression"
arch="noarch"
license="Apache-2.0"
depends="python3 py3-boolean.py"
makedepends="py3-setuptools py3-setuptools_scm py3-gpep517 py3-wheel"
checkdepends="py3-pytest py3-pytest-xdist"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/l/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir/$_pkgname-$pkgver"

build() {
 gpep517 build-wheel \
  --wheel-dir .dist \
  --output-fd 3 3>&1 >&2
}

check() {
 python3 -m venv --clear --without-pip --system-site-packages .testenv
 .testenv/bin/python3 -m installer .dist/*.whl
 .testenv/bin/python3 -m pytest
}

package() {
 python3 -m installer -d "$pkgdir" \
  .dist/*.whl
}

sha512sums="
cc7cd6b5bd8ea4c99b66f074871ffd7cc78b3e8b1b0d3afd9b95efdb7147c8293db2fac977d684fc34d3d60bd79066a06
dc2bff0a38b130d9d83c63538502db1
  license_expression-30.4.0.tar.gz
"
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(EMU Soundfont 2 Format)

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```

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1.5267 kubernetes-component-base 0.32.2

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1.5268 kubernetes-apiserver 0.32.2

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1.5269 axios 1.8.3

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1.5270 k8s-io-kubernetes 1.32.3

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```
package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
```

```
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
 SevNewDefault  = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not
present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

 // The following statuses are used for selecting/filtering notifications
 SevAll = "all" // show all statuses
)
```

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==========
The common/types/pb/equal.go modification of proto.Equal logic
==========
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//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
}
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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==========
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1.5271 opentelemetry-collector-contrib-internal-coreinternal 0.120.0

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1.5277 github.com/jsimonetti/rtnetlink/v2 2.0.2

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1.5278 github.com/safchain/ethtool 0.5.10

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1.5279 nodeexporter 1.9.0

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```
name: bsd

on:
 push:
  branches:
   - master
 pull_request:
  branches:
```

```
    - master

permissions:
 contents: read

env:
 GNU_TAR_VERSION: "1.35"
 GO_VERSION_DRAGONFLY: "1.23.3"
 GO_VERSION_FREEBSD: "123"
 GO_VERSION_NETBSD: "1.23.3"
 GO_VERSION_OPENBSD: "1.23.1"
 GO_VERSION_SOLARIS: "1.23.3"

# To spin up one of the VMs below, see the "Debug Shell" section here: https://github.com/vmactions
jobs:
 test_freebsd:
   name: Run end-to-end tests on FreeBSD
   runs-on: ubuntu-latest
   steps:
     - name: Checkout the repository
       uses: actions/checkout@v4
     - name: test-e2e
       uses: vmactions/freebsd-vm@v1
       with:
         copyback: false
         envs: 'GO_VERSION_FREEBSD GNU_TAR_VERSION'
         usesh: true
         prepare: |
           pkg update -f
           pkg install -y \
             bash \
             git \
             gmake \
             gnugrep \
             go${GO_VERSION_FREEBSD} \
             gsed \

  gtar \
             python \
             wget
         run: |
           echo "::group::Setup prerequisites"
           set -eu
           mkdir bin
           ln -s $(which go${GO_VERSION_FREEBSD}) $(pwd)/bin/go
           ln -s $(which ggrep) $(pwd)/bin/grep
           ln -s $(which gmake) $(pwd)/bin/make
           ln -s $(which gsed) $(pwd)/bin/sed
```

```
          ln -s $(which gtar) $(pwd)/bin/tar
          export PATH=$(pwd)/bin:$PATH
          echo "::endgroup::"

          echo "::group::Print environment information"
          uname -a
          echo "GOOS: $(go env GOOS)"
          echo "GOARCH: $(go env GOARCH)"
          echo "::endgroup::"

          echo "::group::Run End-to-End Tests"
          git config --global --add safe.directory $(pwd)
          gmake test-e2e
          echo "::endgroup::"

test_openbsd:
  name: Run end-to-end tests on OpenBSD
  runs-on: ubuntu-latest
  steps:
    - name: Checkout the repository
      uses:
actions/checkout@v4
    - name: test-e2e
      uses: vmactions/openbsd-vm@v1
      with:
        copyback: false
        envs: 'GO_VERSION_OPENBSD GNU_TAR_VERSION'
        usesh: true
        prepare: |
          pkg_add -u
          pkg_add \
            bash \
            ggrep \
            git \
            gmake \
            go-${GO_VERSION_OPENBSD} \
            gsed \
            gtar-${GNU_TAR_VERSION}p0-static \
            python \
            wget
        run: |
          echo "::group::Setup prerequisites"
          set -eu
          mkdir bin
          ln -s $(which ggrep) $(pwd)/bin/grep
          ln -s $(which gmake) $(pwd)/bin/make
          ln -s $(which gsed) $(pwd)/bin/sed
          ln -s $(which gtar) $(pwd)/bin/tar
```

```
          export PATH=$(pwd)/bin:$PATH
          echo "::endgroup::"

          echo "::group::Print environment information"
          uname -a
          echo "GOOS: $(go env GOOS)"

      echo "GOARCH: $(go env GOARCH)"
          echo "::endgroup::"

          echo "::group::Run End-to-End Tests"
          git config --global --add safe.directory $(pwd)
          make test-e2e
          echo "::endgroup::"

  test_netbsd:
    name: Run end-to-end tests on NetBSD
    runs-on: ubuntu-latest
    steps:
      - name: Checkout the repository
        uses: actions/checkout@v4
      - name: test-e2e
        uses: vmactions/netbsd-vm@v1
        with:
          copyback: false
          envs: 'GO_VERSION_NETBSD GNU_TAR_VERSION'
          usesh: true
          prepare: |
            /usr/sbin/pkg_add -u
            /usr/sbin/pkg_add \
              git \
              gmake \
              grep \
              gsed \
              gtar-base-${GNU_TAR_VERSION}\
              python312 \
              wget
          run: |
            echo "::group::Setup prerequisites"
            set -eu
            mkdir bin
            GOGZ="go${GO_VERSION_NETBSD}.netbsd-amd64.tar.gz"
             wget https://go.dev/dl/${GOGZ}
            gtar xzf ${GOGZ}
            ln -s $(pwd)/go/bin/go $(pwd)/bin/go
            ln -s $(which ggrep) $(pwd)/bin/grep
            ln -s $(which gmake) $(pwd)/bin/make
            ln -s $(which gsed) $(pwd)/bin/sed
```

```
          ln -s $(which gtar) $(pwd)/bin/tar
          export PATH=$(pwd)/bin:$PATH
          echo "::endgroup::"

          echo "::group::Print environment information"
          uname -a
          echo "GOOS: $(go env GOOS)"
          echo "GOARCH: $(go env GOARCH)"
          echo "::endgroup::"

          echo "::group::Run End-to-End Tests"
          git config --global --add safe.directory $(pwd)
          make test-e2e
          echo "::endgroup::"

test_dragonfly:
  name: Run end-to-end tests on DragonFly
  runs-on: ubuntu-latest
  steps:
    - name: Checkout the repository
      uses: actions/checkout@v4
    - name: test-e2e
      uses: vmactions/dragonflybsd-vm@v1

    with:
        copyback: false
        envs: 'GO_VERSION_DRAGONFLY'
        usesh: true
        prepare: |
          pkg update && pkg upgrade -y
          pkg install -y \
            bash \
            git \
            gmake \
            gnugrep \
            gsed \
            gtar \
            python3 \
            wget
        run: |
          echo "::group::Setup prerequisites"
          set -eu
          mkdir bin
          GOGZ="go${GO_VERSION_DRAGONFLY}.dragonfly-amd64.tar.gz"
          wget https://go.dev/dl/${GOGZ}
          gtar xzf ${GOGZ}
          ln -s $(pwd)/go/bin/go $(pwd)/bin/go
          ln -s $(which ggrep) $(pwd)/bin/grep
```

```
          ln -s $(which gmake) $(pwd)/bin/make
          ln -s $(which gsed) $(pwd)/bin/sed
          ln -s $(which gtar) $(pwd)/bin/tar
          ln -s $(which python3) $(pwd)/bin/python
          export PATH=$(pwd)/bin:$PATH
          echo "::endgroup::"

          echo "::group::Print
environment information"
          uname -a
          echo "GOOS: $(go env GOOS)"
          echo "GOARCH: $(go env GOARCH)"
          echo "::endgroup::"

          echo "::group::Run End-to-End Tests"
          git config --global --add safe.directory $(pwd)
          gmake test-e2e
          echo "::endgroup::"

test_solaris:
  name: Run end-to-end tests on Solaris
  runs-on: ubuntu-latest
  steps:
    - name: Checkout the repository
      uses: actions/checkout@v4
    - name: test-e2e
      uses: vmactions/solaris-vm@v1
      with:
        copyback: false
        envs: 'GO_VERSION_SOLARIS'
        usesh: true
        prepare: |
          pkg update
          pkg install \
            bash \
            curl \
            gcc \
            git \
            gnu-grep \
            gnu-make \
            gnu-sed \
            gnu-tar
        run: |
          echo "::group::Setup prerequisites"
          set -eu
           mkdir bin
          GOGZ="go${GO_VERSION_SOLARIS}.solaris-amd64.tar.gz"
          wget https://go.dev/dl/${GOGZ}
```

```
        gtar xzf ${GOGZ}
        ln -s $(pwd)/go/bin/go $(pwd)/bin/go
        ln -s $(which ggrep) $(pwd)/bin/grep
        ln -s $(which gmake) $(pwd)/bin/make
        ln -s $(which gsed) $(pwd)/bin/sed
        ln -s $(which gtar) $(pwd)/bin/tar
        export PATH=$(pwd)/bin:$PATH

        echo ">> building promu as it is not shipped for Solaris"
        git clone https://github.com/prometheus/promu.git
        cd promu
        go build .
        cd -

        mkdir -p $(go env GOPATH)/bin
        ln -s $(pwd)/promu/promu $(go env GOPATH)/bin/promu
        export PATH=$(go env GOPATH)/bin:$PATH
        echo "::endgroup::"

        echo "::group::Print environment information"
        uname -a
        echo "GOOS: $(go env GOOS)"
        echo "GOARCH: $(go env
GOARCH)"
        echo "::endgroup::"

        echo "::group::Run End-to-End Tests"
        git config --global --add safe.directory $(pwd)
        make test-e2e
        echo "::endgroup::"

test_macos:
  name: Run end-to-end tests on macOS
  runs-on: macos-latest
  steps:
    - name: Checkout the repository
      uses: actions/checkout@v4
    - name: Install dependencies
      run: |
        brew install \
          bash \
          curl \
          git \
          grep \
          make \
          gnu-sed \
          gnu-tar \
          go \
```

```
      python3
  - name: test-e2e
    run: |
      echo "::group::Setup prerequisites"
      set -eu
      mkdir bin
      ln -s $(which ggrep) $(pwd)/bin/grep
      ln -s $(which gmake) $(pwd)/bin/make
      ln -s $(which gsed) $(pwd)/bin/sed
      ln -s $(which gtar) $(pwd)/bin/tar
      export PATH=$(pwd)/bin:$PATH
      echo "::endgroup::"

       echo "::group::Print environment information"
      uname -a
      echo "GOOS: $(go env GOOS)"
      echo "GOARCH: $(go env GOARCH)"
      echo "::endgroup::"

      echo "::group::Run End-to-End Tests"
      git config --global --add safe.directory $(pwd)
      make test-e2e
      echo "::endgroup::"
```

1.5280 github.com/mdlayher/ethtool 0.2.0

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1.5281 read 4.1.0

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ISC

1.5282 sqlite 3.47.2

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1.5283 node.js 22.14.0-1nodesource1

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'openssl/providers/implementations/digests/blake2s_prov.c',
'openssl/providers/implementations/digests/md5_prov.c',
'openssl/providers/implementations/digests/md5_sha1_prov.c',
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'openssl/providers/implementations/digests/sha3_prov.c',
'openssl/providers/implementations/digests/sm3_prov.c',
'openssl/providers/implementations/encode_decode/decode_der2key.c',
'openssl/providers/implementations/encode_decode/decode_epki2pki.c',
'openssl/providers/implementations/encode_decode/decode_msblob2key.c',
'openssl/providers/implementations/encode_decode/decode_pem2der.c',

'openssl/providers/implementations/encode_decode/decode_pvk2key.c',
'openssl/providers/implementations/encode_decode/decode_spki2typespki.c',
'openssl/providers/implementations/encode_decode/encode_key2any.c',
'openssl/providers/implementations/encode_decode/encode_key2blob.c',
'openssl/providers/implementations/encode_decode/encode_key2ms.c',
'openssl/providers/implementations/encode_decode/encode_key2text.c',
'openssl/providers/implementations/encode_decode/endecoder_common.c',
'openssl/providers/implementations/exchange/dh_exch.c',
'openssl/providers/implementations/exchange/ecdh_exch.c',
'openssl/providers/implementations/exchange/ecx_exch.c',
'openssl/providers/implementations/exchange/kdf_exch.c',
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'openssl/providers/implementations/kdfs/pbkdf2.c',
'openssl/providers/implementations/kdfs/pbkdf2_fips.c',
'openssl/providers/implementations/kdfs/pkcs12kdf.c',
'openssl/providers/implementations/kdfs/scrypt.c',
'openssl/providers/implementations/kdfs/sshkdf.c',
'openssl/providers/implementations/kdfs/sskdf.c',
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'openssl/providers/implementations/kdfs/x942kdf.c',
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'openssl/providers/implementations/keymgmt/ec_kmgmt.c',
'openssl/providers/implementations/keymgmt/ecx_kmgmt.c',
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'openssl/providers/implementations/keymgmt/mac_legacy_kmgmt.c',
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'openssl/providers/implementations/rands/seeding/rand_tsc.c',
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'openssl/providers/implementations/rands/seeding/rand_win.c',
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'openssl/providers/common/der/der_dsa_sig.c',
'openssl/providers/common/der/der_ec_key.c',
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'openssl/providers/common/der/der_ecx_key.c',
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'openssl/providers/implementations/ciphers/cipher_seed_hw.c',
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'openssl/providers/implementations/digests/mdc2_prov.c',

```
  'openssl/providers/implementations/digests/ripemd_prov.c',
   'openssl/providers/implementations/digests/wp_prov.c',
  'openssl/providers/implementations/kdfs/pbkdf1.c',
  'openssl/providers/prov_running.c',
  'openssl/providers/legacyprov.c',
],
'openssl_sources_BSD-x86_64': [
  './config/archs/BSD-x86_64/asm/crypto/aes/aes-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/aes/aesni-mb-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/aes/aesni-sha1-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/aes/aesni-sha256-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/aes/aesni-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/aes/bsaes-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/aes/vpaes-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/bn/rsaz-avx2.s',
  './config/archs/BSD-x86_64/asm/crypto/bn/rsaz-avx512.s',
  './config/archs/BSD-x86_64/asm/crypto/bn/rsaz-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/bn/x86_64-gf2m.s',
  './config/archs/BSD-x86_64/asm/crypto/bn/x86_64-mont.s',
   './config/archs/BSD-x86_64/asm/crypto/bn/x86_64-mont5.s',
  './config/archs/BSD-x86_64/asm/crypto/camellia/cmll-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/chacha/chacha-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/ec/ecp_nistz256-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/ec/x25519-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/x86_64cpuid.s',
  './config/archs/BSD-x86_64/asm/crypto/md5/md5-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/modes/aesni-gcm-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/modes/ghash-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/poly1305/poly1305-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/rc4/rc4-md5-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/rc4/rc4-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/sha/keccak1600-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/sha/sha1-mb-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/sha/sha1-x86_64.s',
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  './config/archs/BSD-x86_64/asm/crypto/sha/sha256-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/sha/sha512-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/whrlpool/wp-x86_64.s',
  './config/archs/BSD-x86_64/asm/engines/e_padlock-x86_64.s',
  './config/archs/BSD-x86_64/asm/providers/common/der/der_sm2_gen.c',
  './config/archs/BSD-x86_64/asm/providers/common/der/der_digests_gen.c',
  './config/archs/BSD-x86_64/asm/providers/common/der/der_dsa_gen.c',
  './config/archs/BSD-x86_64/asm/providers/common/der/der_ec_gen.c',
  './config/archs/BSD-x86_64/asm/providers/common/der/der_ecx_gen.c',
  './config/archs/BSD-x86_64/asm/providers/common/der/der_rsa_gen.c',
  './config/archs/BSD-x86_64/asm/providers/common/der/der_wrap_gen.c',
  './config/archs/BSD-x86_64/asm/providers/legacy.ld',
  './config/archs/BSD-x86_64/asm/providers/fips.ld',
```

```
    ],
  'openssl_defines_BSD-x86_64': [
    'NDEBUG',
    'L_ENDIAN',
    'OPENSSL_BUILDING_OPENSSL',
    'AES_ASM',
    'BSAES_ASM',
    'CMLL_ASM',
    'ECP_NISTZ256_ASM',
    'GHASH_ASM',
    'KECCAK1600_ASM',
    'MD5_ASM',
    'OPENSSL_BN_ASM_GF2m',
    'OPENSSL_BN_ASM_MONT',
    'OPENSSL_BN_ASM_MONT5',
    'OPENSSL_CPUID_OBJ',
    'OPENSSL_IA32_SSE2',
    'PADLOCK_ASM',
    'POLY1305_ASM',
    'RC4_ASM',
    'SHA1_ASM',
    'SHA256_ASM',
    'SHA512_ASM',
    'VPAES_ASM',
    'WHIRLPOOL_ASM',
    'X25519_ASM',
    'OPENSSL_PIC',
  ],
  'openssl_cflags_BSD-x86_64': [
    '-Wa,--noexecstack',
    '-Wall -O3',
    '-pthread',
    '-Wall -O3',
  ],
  'openssl_ex_libs_BSD-x86_64': [
    '-pthread',
  ],
},
'include_dirs': [
  '.',
  './include',
  './crypto',
  './crypto/include/internal',
  './providers/common/include',
],
'defines': ['<@(openssl_defines_BSD-x86_64)'],
 'cflags' : ['<@(openssl_cflags_BSD-x86_64)'],
'libraries': ['<@(openssl_ex_libs_BSD-x86_64)'],
```

```
 'sources': ['<@(openssl_sources)', '<@(openssl_sources_BSD-x86_64)'],
 'direct_dependent_settings': {
   'include_dirs': ['./include', '.'],
   'defines': ['<@(openssl_defines_BSD-x86_64)'],
 },
}
```

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     'openssl/ssl/bio_ssl.c',
     'openssl/ssl/d1_lib.c',
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     'openssl/ssl/pqueue.c',
     'openssl/ssl/s3_enc.c',
     'openssl/ssl/s3_lib.c',
     'openssl/ssl/s3_msg.c',
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     'openssl/ssl/ssl_cert.c',
     'openssl/ssl/ssl_ciph.c',
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     'openssl/ssl/ssl_err.c',
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     'openssl/ssl/ssl_quic.c',
     'openssl/ssl/ssl_rsa.c',
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     'openssl/ssl/t1_lib.c',
     'openssl/ssl/t1_trce.c',
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'openssl/ssl/tls_srp.c',
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'openssl/ssl/record/rec_layer_s3.c',
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'openssl/crypto/aes/aes_wrap.c',
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'openssl/crypto/asn1/f_int.c',
'openssl/crypto/asn1/f_string.c',
'openssl/crypto/asn1/i2d_evp.c',
'openssl/crypto/asn1/n_pkey.c',
'openssl/crypto/asn1/nsseq.c',
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    './config/archs/BSD-x86/asm_avx2/crypto/chacha/chacha-x86.S',
    './config/archs/BSD-x86/asm_avx2/crypto/des/crypt586.S',
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    './config/archs/BSD-x86/asm_avx2/crypto/x86cpuid.S',
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    './config/archs/BSD-x86/asm_avx2/crypto/ripemd/rmd-586.S',
    './config/archs/BSD-x86/asm_avx2/crypto/sha/sha1-586.S',
    './config/archs/BSD-x86/asm_avx2/crypto/sha/sha256-586.S',
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    './config/archs/BSD-x86/asm_avx2/engines/e_padlock-x86.S',
    './config/archs/BSD-x86/asm_avx2/providers/common/der/der_sm2_gen.c',
    './config/archs/BSD-x86/asm_avx2/providers/common/der/der_digests_gen.c',
    './config/archs/BSD-x86/asm_avx2/providers/common/der/der_dsa_gen.c',
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    'PADLOCK_ASM',
    'POLY1305_ASM',
    'RC4_ASM',
    'RMD160_ASM',
    'SHA1_ASM',
    'SHA256_ASM',
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  './crypto/include/internal',
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    'openssl/providers/implementations/storemgmt/file_store.c',
    'openssl/providers/implementations/storemgmt/file_store_any2obj.c',
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    'openssl/providers/common/der/der_dsa_sig.c',
    'openssl/providers/common/der/der_ec_key.c',
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    'openssl/providers/common/der/der_ecx_key.c',
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    'openssl/providers/common/provider_ctx.c',
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    'openssl/providers/implementations/digests/mdc2_prov.c',
    'openssl/providers/implementations/digests/ripemd_prov.c',
    'openssl/providers/implementations/digests/wp_prov.c',
    'openssl/providers/implementations/kdfs/pbkdf1.c',
    'openssl/providers/prov_running.c',

'openssl/providers/legacyprov.c',
  ],
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  './config/archs/BSD-x86/asm/crypto/aes/aes-586.S',
  './config/archs/BSD-x86/asm/crypto/aes/aesni-x86.S',
  './config/archs/BSD-x86/asm/crypto/aes/vpaes-x86.S',
  './config/archs/BSD-x86/asm/crypto/bf/bf-586.S',
  './config/archs/BSD-x86/asm/crypto/bn/bn-586.S',
  './config/archs/BSD-x86/asm/crypto/bn/co-586.S',
  './config/archs/BSD-x86/asm/crypto/bn/x86-gf2m.S',
  './config/archs/BSD-x86/asm/crypto/bn/x86-mont.S',
  './config/archs/BSD-x86/asm/crypto/camellia/cmll-x86.S',
  './config/archs/BSD-x86/asm/crypto/chacha/chacha-x86.S',
  './config/archs/BSD-x86/asm/crypto/des/crypt586.S',
  './config/archs/BSD-x86/asm/crypto/des/des-586.S',
  './config/archs/BSD-x86/asm/crypto/ec/ecp_nistz256-x86.S',
  './config/archs/BSD-x86/asm/crypto/x86cpuid.S',
  './config/archs/BSD-x86/asm/crypto/md5/md5-586.S',
  './config/archs/BSD-x86/asm/crypto/modes/ghash-x86.S',
   './config/archs/BSD-x86/asm/crypto/poly1305/poly1305-x86.S',
  './config/archs/BSD-x86/asm/crypto/rc4/rc4-586.S',
  './config/archs/BSD-x86/asm/crypto/ripemd/rmd-586.S',
  './config/archs/BSD-x86/asm/crypto/sha/sha1-586.S',
  './config/archs/BSD-x86/asm/crypto/sha/sha256-586.S',
  './config/archs/BSD-x86/asm/crypto/sha/sha512-586.S',
  './config/archs/BSD-x86/asm/crypto/whrlpool/wp-mmx.S',
  './config/archs/BSD-x86/asm/engines/e_padlock-x86.S',
  './config/archs/BSD-x86/asm/providers/common/der/der_sm2_gen.c',
  './config/archs/BSD-x86/asm/providers/common/der/der_digests_gen.c',
  './config/archs/BSD-x86/asm/providers/common/der/der_dsa_gen.c',
  './config/archs/BSD-x86/asm/providers/common/der/der_ec_gen.c',
  './config/archs/BSD-x86/asm/providers/common/der/der_ecx_gen.c',
  './config/archs/BSD-x86/asm/providers/common/der/der_rsa_gen.c',
  './config/archs/BSD-x86/asm/providers/common/der/der_wrap_gen.c',
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   './config/archs/BSD-x86/asm/providers/fips.ld',
],
'openssl_defines_BSD-x86': [
  'NDEBUG',
  'L_ENDIAN',
  'OPENSSL_BUILDING_OPENSSL',
  'AES_ASM',
  'CMLL_ASM',
  'DES_ASM',
  'ECP_NISTZ256_ASM',
  'GHASH_ASM',
  'MD5_ASM',
  'OPENSSL_BN_ASM_GF2m',
  'OPENSSL_BN_ASM_MONT',
  'OPENSSL_BN_ASM_PART_WORDS',
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    'OPENSSL_CPUID_OBJ',
    'OPENSSL_IA32_SSE2',
    'PADLOCK_ASM',
    'POLY1305_ASM',
    'RC4_ASM',
    'RMD160_ASM',
    'SHA1_ASM',
    'SHA256_ASM',
    'SHA512_ASM',
    'VPAES_ASM',
    'WHIRLPOOL_ASM',
    'OPENSSL_PIC',
  ],
  'openssl_cflags_BSD-x86': [
    '-Wa,--noexecstack',
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    '-pthread',
    '-Wall -O3 -fomit-frame-pointer',
  ],
  'openssl_ex_libs_BSD-x86': [
    '-pthread',
  ],
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 'include_dirs': [
  '.',
  './include',
  './crypto',
  './crypto/include/internal',
   './providers/common/include',
 ],
 'defines': ['<@(openssl_defines_BSD-x86)'],
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 'sources': ['<@(openssl_sources)', '<@(openssl_sources_BSD-x86)'],
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  'include_dirs': ['./include', '.'],
  'defines': ['<@(openssl_defines_BSD-x86)'],
 },
}
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'openssl/providers/implementations/kdfs/hkdf.c',
'openssl/providers/implementations/kdfs/kbkdf.c',
'openssl/providers/implementations/kdfs/pbkdf2.c',
'openssl/providers/implementations/kdfs/pbkdf2_fips.c',
'openssl/providers/implementations/kdfs/sshkdf.c',
'openssl/providers/implementations/kdfs/sskdf.c',
'openssl/providers/implementations/kdfs/tls1_prf.c',
'openssl/providers/implementations/kdfs/x942kdf.c',
'openssl/providers/implementations/kem/rsa_kem.c',
'openssl/providers/implementations/keymgmt/dh_kmgmt.c',
'openssl/providers/implementations/keymgmt/dsa_kmgmt.c',
'openssl/providers/implementations/keymgmt/ec_kmgmt.c',
'openssl/providers/implementations/keymgmt/ecx_kmgmt.c',

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  'openssl/providers/implementations/keymgmt/kdf_legacy_kmgmt.c',
  'openssl/providers/implementations/keymgmt/mac_legacy_kmgmt.c',
  'openssl/providers/implementations/keymgmt/rsa_kmgmt.c',
  'openssl/providers/implementations/macs/cmac_prov.c',
  'openssl/providers/implementations/macs/gmac_prov.c',
  'openssl/providers/implementations/macs/hmac_prov.c',
  'openssl/providers/implementations/macs/kmac_prov.c',
  'openssl/providers/implementations/rands/crngt.c',
  'openssl/providers/implementations/rands/drbg.c',
  'openssl/providers/implementations/rands/drbg_ctr.c',
  'openssl/providers/implementations/rands/drbg_hash.c',
  'openssl/providers/implementations/rands/drbg_hmac.c',
  'openssl/providers/implementations/rands/test_rng.c',
   'openssl/providers/implementations/signature/dsa_sig.c',
  'openssl/providers/implementations/signature/ecdsa_sig.c',
  'openssl/providers/implementations/signature/eddsa_sig.c',
  'openssl/providers/implementations/signature/mac_legacy_sig.c',
  'openssl/providers/implementations/signature/rsa_sig.c',
  'openssl/ssl/s3_cbc.c',
  'openssl/providers/common/der/der_dsa_key.c',
  'openssl/providers/common/der/der_dsa_sig.c',
  'openssl/providers/common/der/der_ec_key.c',
  'openssl/providers/common/der/der_ec_sig.c',
  'openssl/providers/common/der/der_ecx_key.c',
  'openssl/providers/common/der/der_rsa_key.c',
  'openssl/providers/common/provider_ctx.c',
  'openssl/providers/common/provider_err.c',
  'openssl/providers/implementations/ciphers/ciphercommon.c',
  'openssl/providers/implementations/ciphers/ciphercommon_block.c',
  'openssl/providers/implementations/ciphers/ciphercommon_ccm.c',
  'openssl/providers/implementations/ciphers/ciphercommon_ccm_hw.c',
   'openssl/providers/implementations/ciphers/ciphercommon_gcm.c',
  'openssl/providers/implementations/ciphers/ciphercommon_gcm_hw.c',
  'openssl/providers/implementations/ciphers/ciphercommon_hw.c',
  'openssl/providers/implementations/digests/digestcommon.c',
  'openssl/ssl/record/tls_pad.c',
  'openssl/providers/fips/fips_entry.c',

],
'openssl_sources_BSD-x86_64': [
  './config/archs/BSD-x86_64/asm/crypto/aes/aes-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/aes/aesni-mb-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/aes/aesni-sha1-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/aes/aesni-sha256-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/aes/aesni-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/aes/bsaes-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/aes/vpaes-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/bn/rsaz-avx2.s',
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```
  './config/archs/BSD-x86_64/asm/crypto/bn/rsaz-avx512.s',
  './config/archs/BSD-x86_64/asm/crypto/bn/rsaz-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/bn/x86_64-gf2m.s',
  './config/archs/BSD-x86_64/asm/crypto/bn/x86_64-mont.s',
  './config/archs/BSD-x86_64/asm/crypto/bn/x86_64-mont5.s',
  './config/archs/BSD-x86_64/asm/crypto/camellia/cmll-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/chacha/chacha-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/ec/ecp_nistz256-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/ec/x25519-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/x86_64cpuid.s',
  './config/archs/BSD-x86_64/asm/crypto/md5/md5-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/modes/aesni-gcm-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/modes/ghash-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/poly1305/poly1305-x86_64.s',
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  './config/archs/BSD-x86_64/asm/engines/e_padlock-x86_64.s',
  './config/archs/BSD-x86_64/asm/providers/common/der/der_sm2_gen.c',
  './config/archs/BSD-x86_64/asm/providers/common/der/der_digests_gen.c',
  './config/archs/BSD-x86_64/asm/providers/common/der/der_dsa_gen.c',
  './config/archs/BSD-x86_64/asm/providers/common/der/der_ec_gen.c',
  './config/archs/BSD-x86_64/asm/providers/common/der/der_ecx_gen.c',
  './config/archs/BSD-x86_64/asm/providers/common/der/der_rsa_gen.c',
  './config/archs/BSD-x86_64/asm/providers/common/der/der_wrap_gen.c',
  './config/archs/BSD-x86_64/asm/providers/legacy.ld',
  './config/archs/BSD-x86_64/asm/providers/fips.ld',

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  'L_ENDIAN',
  'OPENSSL_BUILDING_OPENSSL',
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  'BSAES_ASM',
  'ECP_NISTZ256_ASM',
  'FIPS_MODULE',
  'GHASH_ASM',
  'KECCAK1600_ASM',
  'OPENSSL_BN_ASM_GF2m',
  'OPENSSL_BN_ASM_MONT',
  'OPENSSL_BN_ASM_MONT5',
```

```
    'OPENSSL_CPUID_OBJ',
    'OPENSSL_IA32_SSE2',
    'SHA1_ASM',
    'SHA256_ASM',
    'SHA512_ASM',
    'VPAES_ASM',
    'X25519_ASM',
    'FIPS_MODULE',
  ],
  'openssl_cflags_BSD-x86_64': [
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  ],
  'openssl_ex_libs_BSD-x86_64': [
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  ],
  'linker_script': ''
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  '.',
  './include',
  './crypto',
   './crypto/include/internal',
  './providers/common/include',
 ],
 'defines': ['<@(openssl_defines_BSD-x86_64)'],
 'cflags': ['<@(openssl_cflags_BSD-x86_64)'],
 'libraries': ['<@(openssl_ex_libs_BSD-x86_64)'],

 'sources': ['<@(openssl_sources)', '<@(openssl_sources_BSD-x86_64)'],
 'direct_dependent_settings': {
  'include_dirs': ['./include', '.'],
  'defines': ['<@(openssl_defines_BSD-x86_64)'],
 },
}
```

version 1.2.12, March 27th, 2022

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Recognizing Contributors

The project looks to recognize and thank contributors for their contributions
as one of the ways we can help them continue to contribute to the project.

This document captures some of the processes we have in place to do that.

Some of the benefits we hope to achieve through these programs include:

* Ensuring people know that the project appreciates their work
* Encouraging people to repeat/grow their contributions
* Helping people demonstrate to their managers the value of the
 contributions they are making, which in terms helps their manager support
 their employer investing in the project (unfortunately this is

something that matters)
* Highlighting the new features in Node.js and showing that they are being added by individuals like those mentioned. This should encourage other people to get involved and make similar contributions.
* Highlighting those leading efforts/initiatives and they are being done by individuals or teams like those mentioned. This should encourage other people to get involved and make similar contributions

Sponsorship link on nodejs/node README.md

Collaborators may add a single link beside their name on the nodejs/node [`README.md`](../../README.md) file in the section titled `Collaborators` named `Support me`. This link may be:

1. a direct link to one of the sponsorship platforms listed below,
2. a page that has text explaining how to support the collaborator including zero or more links to the sponsorship platforms listed below. The page should not have any outgoing links other than to the sponsorship platforms. We expect and trust collaborators to ensure that the text is professional and respectful.

The sponsorship platforms to which links can be made currently includes (in alphabetical order):

* [GitHub Sponsors](https://github.com/sponsors)
* [Polar](https://polar.sh/)
* thanks.dev

Amplification of posts announcing talks by collaborators

When a collaborator is speaking at a public event they may request amplification by the Node.js social media accounts. They can request that a post highlighting that they are speaking at the event be amplified by the Node.js accounts by making a request in the #nodejs-social channel in the OpenJS Foundation slack. We trust that collaborators will only request amplification when they believe the event is relevant to the Node.js community and the content of the post is in line with the norms of the project.

Bi-monthly contributor spotlight

The contributor spotlight program showcases individual(s) or teams who have made signification contributions to the project. Anybody who is not a member of the Technical Steering Committee (TSC) and has made a notable contribution to the project can be nominated. They DO NOT need to be a collaborator, team member etc.

The work of the team or individual(s) will be showcased on the
Node.js social channels and, if warranted, through a blog post created by the
OpenJS
marketing staff along with the team or individual(s) which will
be published on openjsf.org.

Nominations can be made through this web form:
[Contributor Spotlight nomination](https://forms.gle/dXBXZn8yu83HLJ57A)

Nominations will be reviewed/approved by the Technical Steering Committee (TSC)
on a regular basis as scheduled by the TSC chair. The TSC will also
recommend the order in which approved nominations are processed
by the OpenJS marketing staff.

Before any work proceeds on an approved nomination the individual(s)
or team will be contacted to confirm they want to participate. Social
content and or spotlight blog post will only be published after the
team or individual(s) have confirmed they are happy with the content.
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     'openssl/crypto/aes/aes_misc.c',
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     'openssl/crypto/bn/bn_const.c',
     'openssl/crypto/bn/bn_conv.c',
     'openssl/crypto/bn/bn_ctx.c',
     'openssl/crypto/bn/bn_dh.c',
     'openssl/crypto/bn/bn_div.c',
     'openssl/crypto/bn/bn_exp.c',
     'openssl/crypto/bn/bn_exp2.c',
     'openssl/crypto/bn/bn_gcd.c',
     'openssl/crypto/bn/bn_gf2m.c',
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     'openssl/crypto/buffer/buffer.c',
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'openssl/crypto/property/property.c',
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'openssl/crypto/rsa/rsa_sp800_56b_gen.c',
'openssl/crypto/rsa/rsa_x931.c',
'openssl/crypto/sha/keccak1600.c',
'openssl/crypto/sha/sha1dgst.c',
'openssl/crypto/sha/sha256.c',
'openssl/crypto/sha/sha3.c',
'openssl/crypto/sha/sha512.c',
'openssl/crypto/stack/stack.c',
'openssl/providers/common/der/der_rsa_sig.c',
'openssl/providers/common/bio_prov.c',
'openssl/providers/common/capabilities.c',
'openssl/providers/common/digest_to_nid.c',
'openssl/providers/common/provider_seeding.c',
'openssl/providers/common/provider_util.c',
'openssl/providers/common/securitycheck.c',
'openssl/providers/common/securitycheck_fips.c',

'openssl/providers/fips/fipsprov.c',
'openssl/providers/fips/self_test.c',
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  'openssl/providers/implementations/rands/drbg_ctr.c',
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  'openssl/providers/implementations/rands/drbg_hmac.c',
  'openssl/providers/implementations/rands/test_rng.c',
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  'openssl/providers/implementations/signature/ecdsa_sig.c',
  'openssl/providers/implementations/signature/eddsa_sig.c',
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  'openssl/providers/implementations/signature/rsa_sig.c',
  'openssl/ssl/s3_cbc.c',
  'openssl/providers/common/der/der_dsa_key.c',
  'openssl/providers/common/der/der_dsa_sig.c',
  'openssl/providers/common/der/der_ec_key.c',
  'openssl/providers/common/der/der_ec_sig.c',
  'openssl/providers/common/der/der_ecx_key.c',
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  'openssl/providers/implementations/digests/digestcommon.c',
  'openssl/ssl/record/tls_pad.c',
  'openssl/providers/fips/fips_entry.c',

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  './config/archs/BSD-x86/asm/crypto/aes/aes-586.S',
  './config/archs/BSD-x86/asm/crypto/aes/aesni-x86.S',
  './config/archs/BSD-x86/asm/crypto/aes/vpaes-x86.S',
  './config/archs/BSD-x86/asm/crypto/bf/bf-586.S',
  './config/archs/BSD-x86/asm/crypto/bn/bn-586.S',
  './config/archs/BSD-x86/asm/crypto/bn/co-586.S',
  './config/archs/BSD-x86/asm/crypto/bn/x86-gf2m.S',
  './config/archs/BSD-x86/asm/crypto/bn/x86-mont.S',
  './config/archs/BSD-x86/asm/crypto/camellia/cmll-x86.S',
  './config/archs/BSD-x86/asm/crypto/chacha/chacha-x86.S',
  './config/archs/BSD-x86/asm/crypto/des/crypt586.S',
  './config/archs/BSD-x86/asm/crypto/des/des-586.S',
   './config/archs/BSD-x86/asm/crypto/ec/ecp_nistz256-x86.S',
  './config/archs/BSD-x86/asm/crypto/x86cpuid.S',
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  './config/archs/BSD-x86/asm/crypto/md5/md5-586.S',
  './config/archs/BSD-x86/asm/crypto/modes/ghash-x86.S',
  './config/archs/BSD-x86/asm/crypto/poly1305/poly1305-x86.S',
  './config/archs/BSD-x86/asm/crypto/rc4/rc4-586.S',
  './config/archs/BSD-x86/asm/crypto/ripemd/rmd-586.S',
  './config/archs/BSD-x86/asm/crypto/sha/sha1-586.S',
  './config/archs/BSD-x86/asm/crypto/sha/sha256-586.S',
  './config/archs/BSD-x86/asm/crypto/sha/sha512-586.S',
  './config/archs/BSD-x86/asm/crypto/whrlpool/wp-mmx.S',
  './config/archs/BSD-x86/asm/engines/e_padlock-x86.S',
  './config/archs/BSD-x86/asm/providers/common/der/der_sm2_gen.c',
  './config/archs/BSD-x86/asm/providers/common/der/der_digests_gen.c',
  './config/archs/BSD-x86/asm/providers/common/der/der_dsa_gen.c',
  './config/archs/BSD-x86/asm/providers/common/der/der_ec_gen.c',
   './config/archs/BSD-x86/asm/providers/common/der/der_ecx_gen.c',
  './config/archs/BSD-x86/asm/providers/common/der/der_rsa_gen.c',
  './config/archs/BSD-x86/asm/providers/common/der/der_wrap_gen.c',
  './config/archs/BSD-x86/asm/providers/legacy.ld',
  './config/archs/BSD-x86/asm/providers/fips.ld',

],
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  'AES_ASM',
  'DES_ASM',
  'ECP_NISTZ256_ASM',
  'FIPS_MODULE',
  'GHASH_ASM',
  'OPENSSL_BN_ASM_GF2m',
  'OPENSSL_BN_ASM_MONT',
  'OPENSSL_BN_ASM_PART_WORDS',
  'OPENSSL_CPUID_OBJ',
  'OPENSSL_IA32_SSE2',
  'SHA1_ASM',
  'SHA256_ASM',
  'SHA512_ASM',
  'VPAES_ASM',
  'FIPS_MODULE',
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'openssl_cflags_BSD-x86': [
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],
'openssl_ex_libs_BSD-x86': [
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    '-pthread',
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  './crypto',
  './crypto/include/internal',
  './providers/common/include',
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 'sources': ['<@(openssl_sources)', '<@(openssl_sources_BSD-x86)'],
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  'defines': ['<@(openssl_defines_BSD-x86)'],
 },
}
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    'openssl/ssl/methods.c',
    'openssl/ssl/pqueue.c',
    'openssl/ssl/s3_enc.c',
    'openssl/ssl/s3_lib.c',
    'openssl/ssl/s3_msg.c',
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'openssl/ssl/ssl_conf.c',
'openssl/ssl/ssl_err.c',
'openssl/ssl/ssl_err_legacy.c',
'openssl/ssl/ssl_init.c',
'openssl/ssl/ssl_lib.c',
'openssl/ssl/ssl_mcnf.c',
'openssl/ssl/ssl_quic.c',
'openssl/ssl/ssl_rsa.c',
'openssl/ssl/ssl_rsa_legacy.c',
'openssl/ssl/ssl_sess.c',
'openssl/ssl/ssl_stat.c',
'openssl/ssl/ssl_txt.c',
'openssl/ssl/ssl_utst.c',
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'openssl/ssl/record/rec_layer_d1.c',
'openssl/ssl/record/rec_layer_s3.c',
'openssl/ssl/record/ssl3_buffer.c',
'openssl/ssl/record/ssl3_record.c',
'openssl/ssl/record/ssl3_record_tls13.c',
'openssl/ssl/statem/extensions.c',
'openssl/ssl/statem/extensions_clnt.c',
'openssl/ssl/statem/extensions_cust.c',
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'openssl/crypto/aes/aes_ige.c',
'openssl/crypto/aes/aes_misc.c',
'openssl/crypto/aes/aes_ofb.c',
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'openssl/crypto/asn1/d2i_pr.c',
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'openssl/crypto/asn1/f_string.c',
'openssl/crypto/asn1/i2d_evp.c',
'openssl/crypto/asn1/n_pkey.c',
'openssl/crypto/asn1/nsseq.c',
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    'openssl/crypto/bn/bn_const.c',
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'openssl/crypto/x509/x_all.c',
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  'openssl/providers/implementations/ciphers/cipher_tdes_common.c',
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  'openssl/providers/implementations/digests/ripemd_prov.c',
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  'openssl/providers/implementations/kdfs/pbkdf1.c',
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  './config/archs/BSD-x86_64/asm_avx2/crypto/aes/aesni-mb-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/aes/aesni-sha1-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/aes/aesni-sha256-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/aes/aesni-x86_64.s',
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  './config/archs/BSD-x86_64/asm_avx2/crypto/bn/rsaz-avx512.s',
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  './config/archs/BSD-x86_64/asm_avx2/crypto/bn/x86_64-gf2m.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/bn/x86_64-mont.s',
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  './config/archs/BSD-x86_64/asm_avx2/providers/common/der/der_sm2_gen.c',
  './config/archs/BSD-x86_64/asm_avx2/providers/common/der/der_digests_gen.c',
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  'ECP_NISTZ256_ASM',
  'GHASH_ASM',
  'KECCAK1600_ASM',
  'MD5_ASM',
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  'OPENSSL_BN_ASM_MONT',
  'OPENSSL_BN_ASM_MONT5',
  'OPENSSL_CPUID_OBJ',
  'OPENSSL_IA32_SSE2',
  'PADLOCK_ASM',
  'POLY1305_ASM',
  'RC4_ASM',
  'SHA1_ASM',
  'SHA256_ASM',
  'SHA512_ASM',
  'VPAES_ASM',
  'WHIRLPOOL_ASM',
  'X25519_ASM',
  'OPENSSL_PIC',
],
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  'openssl_cflags_BSD-x86_64': [
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    '-pthread',
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  ],
  'openssl_ex_libs_BSD-x86_64': [

  '-pthread',
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  './crypto/include/internal',
  './providers/common/include',
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 'cflags' : ['<@(openssl_cflags_BSD-x86_64)'],
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 'direct_dependent_settings': {
  'include_dirs': ['./include', '.'],
  'defines': ['<@(openssl_defines_BSD-x86_64)'],
 },
}
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     'AES_ASM',
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     'GHASH_ASM',
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     'OPENSSL_BN_ASM_GF2m',
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  'openssl/apps/ciphers.c',
  'openssl/apps/cmp.c',
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  'openssl/apps/ec.c',
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  'openssl/apps/kdf.c',
  'openssl/apps/list.c',
  'openssl/apps/mac.c',
  'openssl/apps/nseq.c',
  'openssl/apps/ocsp.c',
  'openssl/apps/openssl.c',
  'openssl/apps/passwd.c',
  'openssl/apps/pkcs12.c',
  'openssl/apps/pkcs7.c',
  'openssl/apps/pkcs8.c',
  'openssl/apps/pkey.c',
  'openssl/apps/pkeyparam.c',
  'openssl/apps/pkeyutl.c',
  'openssl/apps/prime.c',
  './config/archs/BSD-x86/asm_avx2/apps/progs.c',
   'openssl/apps/rand.c',
  'openssl/apps/rehash.c',
  'openssl/apps/req.c',
  'openssl/apps/rsa.c',
  'openssl/apps/rsautl.c',
  'openssl/apps/s_client.c',
  'openssl/apps/s_server.c',
  'openssl/apps/s_time.c',
```

```
    'openssl/apps/sess_id.c',
    'openssl/apps/smime.c',
    'openssl/apps/speed.c',
    'openssl/apps/spkac.c',
    'openssl/apps/srp.c',
    'openssl/apps/storeutl.c',
    'openssl/apps/ts.c',
    'openssl/apps/verify.c',
    'openssl/apps/version.c',
    'openssl/apps/x509.c',
    'openssl/apps/lib/app_libctx.c',
    'openssl/apps/lib/app_params.c',
    'openssl/apps/lib/app_provider.c',
    'openssl/apps/lib/app_rand.c',
    'openssl/apps/lib/app_x509.c',
    'openssl/apps/lib/apps.c',
    'openssl/apps/lib/apps_ui.c',
    'openssl/apps/lib/columns.c',
    'openssl/apps/lib/engine.c',
    'openssl/apps/lib/engine_loader.c',
    'openssl/apps/lib/fmt.c',
    'openssl/apps/lib/http_server.c',

  'openssl/apps/lib/names.c',
    'openssl/apps/lib/opt.c',
    'openssl/apps/lib/s_cb.c',
    'openssl/apps/lib/s_socket.c',
    'openssl/apps/lib/tlssrp_depr.c',
  ],
 },
 'defines': ['<@(openssl_defines_BSD-x86)'],
 'include_dirs': [
  './include',
 ],
 'cflags' : ['<@(openssl_cflags_BSD-x86)'],
 'libraries': ['<@(openssl_ex_libs_BSD-x86)'],
 'sources': ['<@(openssl_cli_srcs_BSD-x86)'],
}
```

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JSON parsing library (nlohmann/json)

File: vendor/json/upstream/single_include/nlohmann/json.hpp (only for ICU4C)

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If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the
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commands you use may be called something other than `show w' and `show
c'; they could even be mouse-clicks or menu items--whatever suits your
program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here a sample; alter
the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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```
SOFTWARE.
{
 'variables': {
   'openssl_defines_BSD-x86': [
     'NDEBUG',
     'L_ENDIAN',
     'OPENSSL_BUILDING_OPENSSL',
     'OPENSSL_PIC',
   ],
   'openssl_cflags_BSD-x86': [
     '-Wall -O3 -fomit-frame-pointer',
     '-pthread',
     '-Wall -O3 -fomit-frame-pointer',
   ],
   'openssl_ex_libs_BSD-x86': [
     '-pthread',
   ],
   'openssl_cli_srcs_BSD-x86': [
     'openssl/apps/lib/cmp_mock_srv.c',
     'openssl/apps/asn1parse.c',
     'openssl/apps/ca.c',
     'openssl/apps/ciphers.c',
     'openssl/apps/cmp.c',
     'openssl/apps/cms.c',
     'openssl/apps/crl.c',
     'openssl/apps/crl2pkcs7.c',
     'openssl/apps/dgst.c',
     'openssl/apps/dhparam.c',
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     'openssl/apps/ec.c',
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     'openssl/apps/engine.c',
     'openssl/apps/errstr.c',
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     'openssl/apps/gendsa.c',
     'openssl/apps/genpkey.c',

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     'openssl/apps/info.c',
     'openssl/apps/kdf.c',
     'openssl/apps/list.c',
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     'openssl/apps/nseq.c',
     'openssl/apps/ocsp.c',
     'openssl/apps/openssl.c',
     'openssl/apps/passwd.c',
```

```
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    'openssl/apps/pkcs7.c',
    'openssl/apps/pkcs8.c',
    'openssl/apps/pkey.c',
    'openssl/apps/pkeyparam.c',
    'openssl/apps/pkeyutl.c',
    'openssl/apps/prime.c',
    './config/archs/BSD-x86/no-asm/apps/progs.c',
    'openssl/apps/rand.c',
    'openssl/apps/rehash.c',
    'openssl/apps/req.c',
    'openssl/apps/rsa.c',
    'openssl/apps/rsautl.c',
    'openssl/apps/s_client.c',
    'openssl/apps/s_server.c',
    'openssl/apps/s_time.c',
    'openssl/apps/sess_id.c',
    'openssl/apps/smime.c',
    'openssl/apps/speed.c',
    'openssl/apps/spkac.c',
    'openssl/apps/srp.c',
    'openssl/apps/storeutl.c',
    'openssl/apps/ts.c',
    'openssl/apps/verify.c',
     'openssl/apps/version.c',
    'openssl/apps/x509.c',
    'openssl/apps/lib/app_libctx.c',
    'openssl/apps/lib/app_params.c',
    'openssl/apps/lib/app_provider.c',
    'openssl/apps/lib/app_rand.c',
    'openssl/apps/lib/app_x509.c',
    'openssl/apps/lib/apps.c',
    'openssl/apps/lib/apps_ui.c',
    'openssl/apps/lib/columns.c',
    'openssl/apps/lib/engine.c',
    'openssl/apps/lib/engine_loader.c',
    'openssl/apps/lib/fmt.c',
    'openssl/apps/lib/http_server.c',
    'openssl/apps/lib/names.c',
    'openssl/apps/lib/opt.c',
    'openssl/apps/lib/s_cb.c',
    'openssl/apps/lib/s_socket.c',
    'openssl/apps/lib/tlssrp_depr.c',
  ],
},
'defines': ['<@(openssl_defines_BSD-x86)'],
'include_dirs': [
  './include',
```

```
 ],
 'cflags' : ['<@(openssl_cflags_BSD-x86)'],
 'libraries': ['<@(openssl_ex_libs_BSD-x86)'],
 'sources': ['<@(openssl_cli_srcs_BSD-x86)'],
}
```

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```
name: License update
on:
 schedule:
   # 00:00:00 every Monday
   # https://crontab.guru/#0_0_*_*_1
   - cron: 0 0 * * 1
 workflow_dispatch:

permissions:
 contents: read

jobs:
 update_license:
   permissions:
     contents: write  # for gr2m/create-or-update-pull-request-action to push local changes
     pull-requests: write  # for gr2m/create-or-update-pull-request-action to create a PR
   if: github.repository == 'nodejs/node'
   runs-on: ubuntu-latest
   steps:
     - uses: actions/checkout@11bd71901bbe5b1630ceea73d27597364c9af683  # v4.2.2
       with:
         persist-credentials: false
     - run: ./tools/license-builder.sh  # Run the license builder tool
     - uses: gr2m/create-or-update-pull-request-action@86ec1766034c8173518f61d2075cc2a173fb8c97  # v1.9.4
       # Creates a PR or update the Action's existing PR, or
       # no-op if the base branch is already up-to-date.
       env:
         GITHUB_TOKEN: ${{ secrets.GITHUB_TOKEN }}
       with:

     author: Node.js GitHub Bot <github-bot@iojs.org>
         branch: actions/license-builder
         title: 'doc: run license-builder'
         body: >
           License is likely out of date. This is an automatically generated PR by
           the `license-builder.yml` GitHub Action, which runs `license-builder.sh`
           and submits a new PR or updates an existing PR.
```

commit-message: 'doc: run license-builder'
labels: meta

A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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 'variables': {
   'openssl_defines_BSD-x86_64': [
     'NDEBUG',
     'L_ENDIAN',
     'OPENSSL_BUILDING_OPENSSL',
     'AES_ASM',
     'BSAES_ASM',
     'CMLL_ASM',
     'ECP_NISTZ256_ASM',
     'GHASH_ASM',
     'KECCAK1600_ASM',
     'MD5_ASM',
     'OPENSSL_BN_ASM_GF2m',
     'OPENSSL_BN_ASM_MONT',
     'OPENSSL_BN_ASM_MONT5',
     'OPENSSL_CPUID_OBJ',
     'OPENSSL_IA32_SSE2',
     'PADLOCK_ASM',
     'POLY1305_ASM',
     'RC4_ASM',
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  'SHA512_ASM',
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  'WHIRLPOOL_ASM',
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  'OPENSSL_PIC',
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  '-Wall -O3',
  '-pthread',
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  'openssl/apps/asn1parse.c',
  'openssl/apps/ca.c',
  'openssl/apps/ciphers.c',
  'openssl/apps/cmp.c',

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  'openssl/apps/mac.c',
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    'openssl/apps/prime.c',
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    'openssl/apps/rand.c',
     'openssl/apps/rehash.c',
    'openssl/apps/req.c',
    'openssl/apps/rsa.c',
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    'openssl/apps/s_client.c',
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    'openssl/apps/sess_id.c',
    'openssl/apps/smime.c',
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    'openssl/apps/spkac.c',
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    'openssl/apps/storeutl.c',
    'openssl/apps/ts.c',
    'openssl/apps/verify.c',
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    'openssl/apps/lib/app_libctx.c',
    'openssl/apps/lib/app_params.c',
    'openssl/apps/lib/app_provider.c',
    'openssl/apps/lib/app_rand.c',
    'openssl/apps/lib/app_x509.c',
    'openssl/apps/lib/apps.c',
    'openssl/apps/lib/apps_ui.c',
    'openssl/apps/lib/columns.c',
    'openssl/apps/lib/engine.c',
    'openssl/apps/lib/engine_loader.c',
    'openssl/apps/lib/fmt.c',
    'openssl/apps/lib/http_server.c',
    'openssl/apps/lib/names.c',
     'openssl/apps/lib/opt.c',
    'openssl/apps/lib/s_cb.c',
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    'openssl/apps/lib/tlssrp_depr.c',
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},
'defines': ['<@(openssl_defines_BSD-x86_64)'],
'include_dirs': [
  './include',
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 'cflags' : ['<@(openssl_cflags_BSD-x86_64)'],
 'libraries': ['<@(openssl_ex_libs_BSD-x86_64)'],
 'sources': ['<@(openssl_cli_srcs_BSD-x86_64)'],
}
```

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JSON parsing library (nlohmann/json)

File: vendor/json/upstream/single_include/nlohmann/json.hpp (only for
 ICU4C)

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File: aclocal.m4 (only for ICU4C)
Section: pkg.m4 - Macros to locate and utilise pkg-config.

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 'variables': {
   'openssl_defines_BSD-x86': [
     'NDEBUG',
     'L_ENDIAN',
     'OPENSSL_BUILDING_OPENSSL',
     'AES_ASM',
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     'DES_ASM',
     'ECP_NISTZ256_ASM',
     'GHASH_ASM',
     'MD5_ASM',
     'OPENSSL_BN_ASM_GF2m',
     'OPENSSL_BN_ASM_MONT',
     'OPENSSL_BN_ASM_PART_WORDS',
     'OPENSSL_CPUID_OBJ',
     'OPENSSL_IA32_SSE2',
     'PADLOCK_ASM',
     'POLY1305_ASM',
     'RC4_ASM',
     'RMD160_ASM',
     'SHA1_ASM',
     'SHA256_ASM',
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     'VPAES_ASM',
     'WHIRLPOOL_ASM',
     'OPENSSL_PIC',
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     '-pthread',
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  '-pthread',
],
'openssl_cli_srcs_BSD-x86': [
  'openssl/apps/lib/cmp_mock_srv.c',
  'openssl/apps/asn1parse.c',
  'openssl/apps/ca.c',
  'openssl/apps/ciphers.c',
  'openssl/apps/cmp.c',
   'openssl/apps/cms.c',
  'openssl/apps/crl.c',
  'openssl/apps/crl2pkcs7.c',
  'openssl/apps/dgst.c',
  'openssl/apps/dhparam.c',
  'openssl/apps/dsa.c',
  'openssl/apps/dsaparam.c',
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  'openssl/apps/pkcs7.c',
  'openssl/apps/pkcs8.c',
  'openssl/apps/pkey.c',
  'openssl/apps/pkeyparam.c',
  'openssl/apps/pkeyutl.c',
  'openssl/apps/prime.c',
  './config/archs/BSD-x86/asm/apps/progs.c',

 'openssl/apps/rand.c',
  'openssl/apps/rehash.c',
  'openssl/apps/req.c',
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  'openssl/apps/s_client.c',
  'openssl/apps/s_server.c',
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    'openssl/apps/ts.c',
    'openssl/apps/verify.c',
    'openssl/apps/version.c',
    'openssl/apps/x509.c',
    'openssl/apps/lib/app_libctx.c',
    'openssl/apps/lib/app_params.c',
    'openssl/apps/lib/app_provider.c',
    'openssl/apps/lib/app_rand.c',
    'openssl/apps/lib/app_x509.c',
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    'openssl/apps/lib/engine.c',
    'openssl/apps/lib/engine_loader.c',
    'openssl/apps/lib/fmt.c',
    'openssl/apps/lib/http_server.c',
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    'openssl/apps/lib/tlssrp_depr.c',
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   './include',
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 'cflags' : ['<@(openssl_cflags_BSD-x86)'],
 'libraries': ['<@(openssl_ex_libs_BSD-x86)'],
 'sources': ['<@(openssl_cli_srcs_BSD-x86)'],
}
```

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```
<!-- DO NOT EDIT! Generated by `%(generating_script_filename)s --spec %(spec_directory)s/` -->
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 'variables': {
   'openssl_sources': [
     'openssl/crypto/aes/aes_cbc.c',
     'openssl/crypto/aes/aes_core.c',
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'openssl/providers/implementations/rands/test_rng.c',

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  'openssl/providers/implementations/signature/mac_legacy_sig.c',
  'openssl/providers/implementations/signature/rsa_sig.c',
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  'openssl/providers/common/der/der_ecx_key.c',
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  'openssl/providers/common/provider_ctx.c',
  'openssl/providers/common/provider_err.c',
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  'openssl/providers/implementations/ciphers/ciphercommon_ccm.c',
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  'openssl/providers/implementations/ciphers/ciphercommon_gcm.c',
  'openssl/providers/implementations/ciphers/ciphercommon_gcm_hw.c',
  'openssl/providers/implementations/ciphers/ciphercommon_hw.c',
  'openssl/providers/implementations/digests/digestcommon.c',
  'openssl/ssl/record/tls_pad.c',
  'openssl/providers/fips/fips_entry.c',

],
'openssl_sources_BSD-x86': [
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  './config/archs/BSD-x86/no-asm/providers/common/der/der_digests_gen.c',
  './config/archs/BSD-x86/no-asm/providers/common/der/der_dsa_gen.c',
  './config/archs/BSD-x86/no-asm/providers/common/der/der_ec_gen.c',
  './config/archs/BSD-x86/no-asm/providers/common/der/der_ecx_gen.c',
  './config/archs/BSD-x86/no-asm/providers/common/der/der_rsa_gen.c',
  './config/archs/BSD-x86/no-asm/providers/common/der/der_wrap_gen.c',
  './config/archs/BSD-x86/no-asm/providers/legacy.ld',
  './config/archs/BSD-x86/no-asm/providers/fips.ld',

],
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  'FIPS_MODULE',
  'FIPS_MODULE',
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'openssl_cflags_BSD-x86': [
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  '-pthread',
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  'openssl_ex_libs_BSD-x86': [
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  ],
  'linker_script': ''
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  './crypto',
  './crypto/include/internal',
  './providers/common/include',
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 'defines': ['<@(openssl_defines_BSD-x86)'],
 'cflags': ['<@(openssl_cflags_BSD-x86)'],
 'libraries': ['<@(openssl_ex_libs_BSD-x86)'],

 'sources': ['<@(openssl_sources)', '<@(openssl_sources_BSD-x86)'],
 'direct_dependent_settings': {
  'include_dirs': ['./include', '.'],
  'defines': ['<@(openssl_defines_BSD-x86)'],
 },
}
```

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{
 'variables': {
   'openssl_defines_BSD-x86_64': [
     'NDEBUG',
     'L_ENDIAN',
     'OPENSSL_BUILDING_OPENSSL',
     'AES_ASM',
     'BSAES_ASM',
     'CMLL_ASM',
     'ECP_NISTZ256_ASM',
     'GHASH_ASM',
     'KECCAK1600_ASM',
     'MD5_ASM',
     'OPENSSL_BN_ASM_GF2m',
     'OPENSSL_BN_ASM_MONT',
     'OPENSSL_BN_ASM_MONT5',
     'OPENSSL_CPUID_OBJ',
     'OPENSSL_IA32_SSE2',
     'PADLOCK_ASM',
     'POLY1305_ASM',
     'RC4_ASM',
     'SHA1_ASM',
     'SHA256_ASM',
     'SHA512_ASM',
     'VPAES_ASM',
     'WHIRLPOOL_ASM',
     'X25519_ASM',
     'OPENSSL_PIC',
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   'openssl_cflags_BSD-x86_64': [
     '-Wa,--noexecstack',
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'openssl_ex_libs_BSD-x86_64': [
  '-pthread',
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  'openssl/apps/ciphers.c',
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  'openssl/apps/crl.c',
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  'openssl/apps/mac.c',
  'openssl/apps/nseq.c',
  'openssl/apps/ocsp.c',
  'openssl/apps/openssl.c',
  'openssl/apps/passwd.c',
  'openssl/apps/pkcs12.c',
  'openssl/apps/pkcs7.c',
  'openssl/apps/pkcs8.c',
  'openssl/apps/pkey.c',
  'openssl/apps/pkeyparam.c',
  'openssl/apps/pkeyutl.c',
  'openssl/apps/prime.c',
  './config/archs/BSD-x86_64/asm_avx2/apps/progs.c',

'openssl/apps/rand.c',
  'openssl/apps/rehash.c',
  'openssl/apps/req.c',
  'openssl/apps/rsa.c',
  'openssl/apps/rsautl.c',
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    'openssl/apps/storeutl.c',
    'openssl/apps/ts.c',
    'openssl/apps/verify.c',
    'openssl/apps/version.c',
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    'openssl/apps/lib/app_libctx.c',
    'openssl/apps/lib/app_params.c',
    'openssl/apps/lib/app_provider.c',
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    'openssl/apps/lib/apps.c',
    'openssl/apps/lib/apps_ui.c',
    'openssl/apps/lib/columns.c',
    'openssl/apps/lib/engine.c',
    'openssl/apps/lib/engine_loader.c',
    'openssl/apps/lib/fmt.c',
    'openssl/apps/lib/http_server.c',
    'openssl/apps/lib/names.c',
     'openssl/apps/lib/opt.c',
    'openssl/apps/lib/s_cb.c',
    'openssl/apps/lib/s_socket.c',
    'openssl/apps/lib/tlssrp_depr.c',
  ],
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'defines': ['<@(openssl_defines_BSD-x86_64)'],
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'libraries': ['<@(openssl_ex_libs_BSD-x86_64)'],
'sources': ['<@(openssl_cli_srcs_BSD-x86_64)'],
}
```

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 'sources': ['<@(openssl_sources)', '<@(openssl_sources_BSD-x86)'],
 'direct_dependent_settings': {
  'include_dirs': ['./include', '.'],
  'defines': ['<@(openssl_defines_BSD-x86)'],
 },
}
```

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- Strongtalk assembler, the basis of the files assembler-arm-inl.h,
  assembler-arm.cc, assembler-arm.h, assembler-ia32-inl.h,
  assembler-ia32.cc, assembler-ia32.h, assembler-x64-inl.h,
  assembler-x64.cc, assembler-x64.h, assembler.cc and assembler.h.
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- Valgrind client API header, located at src/third_party/valgrind/valgrind.h
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{
 'variables': {
  'openssl_defines_BSD-x86_64': [
   'NDEBUG',
   'L_ENDIAN',
   'OPENSSL_BUILDING_OPENSSL',
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    'openssl/apps/lib/fmt.c',
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  './include',
 ],
 'cflags' : ['<@(openssl_cflags_BSD-x86_64)'],
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 'sources': ['<@(openssl_cli_srcs_BSD-x86_64)'],
}
```

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```
{
  global:
      OSSL_provider_init;
  local: *;
};
```

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    './config/archs/BSD-x86_64/no-asm/providers/common/der/der_dsa_gen.c',
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  './config/archs/BSD-x86_64/asm_avx2/crypto/poly1305/poly1305-x86_64.s',
   './config/archs/BSD-x86_64/asm_avx2/crypto/rc4/rc4-md5-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/rc4/rc4-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/sha/keccak1600-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/sha/sha1-mb-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/sha/sha1-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/sha/sha256-mb-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/sha/sha256-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/sha/sha512-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/whrlpool/wp-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/engines/e_padlock-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/providers/common/der/der_sm2_gen.c',
  './config/archs/BSD-x86_64/asm_avx2/providers/common/der/der_digests_gen.c',
  './config/archs/BSD-x86_64/asm_avx2/providers/common/der/der_dsa_gen.c',
  './config/archs/BSD-x86_64/asm_avx2/providers/common/der/der_ec_gen.c',
   './config/archs/BSD-x86_64/asm_avx2/providers/common/der/der_ecx_gen.c',
  './config/archs/BSD-x86_64/asm_avx2/providers/common/der/der_rsa_gen.c',
  './config/archs/BSD-x86_64/asm_avx2/providers/common/der/der_wrap_gen.c',
  './config/archs/BSD-x86_64/asm_avx2/providers/legacy.ld',
  './config/archs/BSD-x86_64/asm_avx2/providers/fips.ld',

],
'openssl_defines_BSD-x86_64': [
  'NDEBUG',
  'L_ENDIAN',
  'OPENSSL_BUILDING_OPENSSL',
  'AES_ASM',
  'BSAES_ASM',
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```
    'ECP_NISTZ256_ASM',
    'FIPS_MODULE',
    'GHASH_ASM',
    'KECCAK1600_ASM',
    'OPENSSL_BN_ASM_GF2m',
    'OPENSSL_BN_ASM_MONT',
    'OPENSSL_BN_ASM_MONT5',
    'OPENSSL_CPUID_OBJ',
    'OPENSSL_IA32_SSE2',
    'SHA1_ASM',
    'SHA256_ASM',
    'SHA512_ASM',
    'VPAES_ASM',
    'X25519_ASM',
    'FIPS_MODULE',
  ],
  'openssl_cflags_BSD-x86_64': [
    '-Wa,--noexecstack',
     '-Wall -O3',
    '-pthread',
    '-Wall -O3',
  ],
  'openssl_ex_libs_BSD-x86_64': [
    '-pthread',
  ],
  'linker_script': ''
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 'include_dirs': [
  '.',
  './include',
  './crypto',
  './crypto/include/internal',
  './providers/common/include',
 ],
 'defines': ['<@(openssl_defines_BSD-x86_64)'],
 'cflags': ['<@(openssl_cflags_BSD-x86_64)'],
 'libraries': ['<@(openssl_ex_libs_BSD-x86_64)'],

 'sources': ['<@(openssl_sources)', '<@(openssl_sources_BSD-x86_64)'],
 'direct_dependent_settings': {
  'include_dirs': ['./include', '.'],
  'defines': ['<@(openssl_defines_BSD-x86_64)'],
 },
}
```

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1.5284 npmcli-git 6.0.3

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1.5286 v8 12.4.254.21

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Written by: Philip Hazel
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no

1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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1.5287 @npmcli/config 10.1.0

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1.5304 otel-trace 1.35.0

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1.5305 x-time 0.11.0

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1.5306 go.opentelemetry.io/otel/trace 1.35.0

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1.5308 structured-merge-diff 4.6.0

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1.5309 sigs.k8s.io-randfill 1.0.0

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1.5310 libcurl 8.12.1-r1

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src/base/md5.c
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Schemas for Java EE Deployment Descriptors:
- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
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- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd

- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

may be obtained from:
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org.apache.tomcat.util.json.JSONParser.jj is
 a public domain javacc grammar
for JSON written by Robert Fischer.
https://github.com/RobertFischer/json-parser

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- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
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- web-app_4_0.xsd
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may be obtained from:
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1.5314 common 0.63.0

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1.5317 golang 1.23.7

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1.5322 swag 0.23.1

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1.5323 kubernetes-apimachinery 0.32.3

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localtime.go, localtime_test.go:

Originals:
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https://raw.githubusercontent.com/googleapis/google-cloud-
go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil_test.go
Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
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The hypothetical commands `show w' and `show c' should show the appropriate
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1.5344 cloud-init 24.4.1-0ubuntu0~22.04.2

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Version 3, 29 June 2007

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work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
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A "Standard Interface" means an interface that either is an official
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The
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implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

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the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
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available free
programs which are used unmodified in performing those activities but
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subprograms and other parts of the work.

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1.5345 kube-openapi 0.0.0-20250318190949-c8a335a9a2ff

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
```

```
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
 license := License{Name: "the name", URL: "the url"}
 const licenseJSON = `{"name":"the name","url":"the url"}`
 const licenseYAML = "name: the name\nurl: the url\n"

 assertSerializeJSON(t, license, licenseJSON)
 assertParsesJSON(t, licenseJSON, license)
}
```

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1.5346 runtime-spec 1.2.1

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1.5347 kubernetes-utils 0.0.0-20250321185631-1f6e0b77f77e

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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2.1.1	2.1+2.0.1	2001	PSF	yes
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1.5352 azure-sdk-for-go-sdk-azidentity v1.7.0

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```
//go:build go1.18
// +build go1.18

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// Code generated by Microsoft (R) AutoRest Code Generator.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.
// DO NOT EDIT.

package armhybridcompute_test

import (
 "context"
 "log"

 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/azidentity"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
)

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/f4c6c8697c59f966db0d1e36b62df3af3bca9065/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-03-31-preview/examples/license/License_CreateOrUpdate.json
func ExampleLicensesClient_BeginCreateOrUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
```

```
if err != nil
{
 log.Fatalf("failed to obtain a credential: %v", err)
}
ctx := context.Background()
clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
if err != nil {
 log.Fatalf("failed to create client: %v", err)
}
poller, err := clientFactory.NewLicensesClient().BeginCreateOrUpdate(ctx, "myResourceGroup", "{licenseName}",
armhybridcompute.License{
 Location: to.Ptr("eastus2euap"),
 Properties: &armhybridcompute.LicenseProperties{
  LicenseDetails: &armhybridcompute.LicenseDetails{
   Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
   Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
   Processors: to.Ptr[int32](6),
   State:      to.Ptr(armhybridcompute.LicenseStateActivated),
   Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
  },
  LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 },
}, nil)
if err != nil {
 log.Fatalf("failed to finish the request: %v", err)
}
res, err := poller.PollUntilDone(ctx,
nil)
if err != nil {
 log.Fatalf("failed to pull the result: %v", err)
}
// You could use response here. We use blank identifier for just demo purposes.
_ = res
// If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
// res.License = armhybridcompute.License{
//  Name: to.Ptr("{licenseName}"),
//  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
//  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
//  Location: to.Ptr("eastus2euap"),
//  Properties: &armhybridcompute.LicenseProperties{
//   LicenseDetails: &armhybridcompute.LicenseDetails{
//    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
//    AssignedLicenses: to.Ptr[int32](2),
//    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//    ImmutableID:
```

```
 to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/f4c6c8697c59f966db0d1e36b62df3af3bca9065/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-03-31-preview/examples/license/License_Update.json
func ExampleLicensesClient_BeginUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginUpdate(ctx,
 "myResourceGroup", "{licenseName}", armhybridcompute.LicenseUpdate{
  Properties: &armhybridcompute.LicenseUpdateProperties{
   LicenseDetails: &armhybridcompute.LicenseUpdatePropertiesLicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please
```

```
 pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/lice
nses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //
  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/f4c6c8697c59f966db0d1e36b62df3af3bca9065/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-03-31-preview/examples/license/License_Get.json
func ExampleLicensesClient_Get() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 res, err := clientFactory.NewLicensesClient().Get(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would
 look as follows. Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
```

```
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //
   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/f4c6c8697c59f966db0d1e36b62df3af3bca9065/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-03-31-preview/examples/license/License_Delete.json
func ExampleLicensesClient_BeginDelete() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginDelete(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 _, err = poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
}

// Generated from example
 definition: https://github.com/Azure/azure-rest-api-
specs/blob/f4c6c8697c59f966db0d1e36b62df3af3bca9065/specification/hybridcompute/resource-
```

```
manager/Microsoft.HybridCompute/preview/2024-03-31-
preview/examples/license/License_ListByResourceGroup.json
func ExampleLicensesClient_NewListByResourceGroupPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListByResourceGroupPager("myResourceGroup", nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
   // You could use page here. We use blank identifier for just demo purposes.
   _ = v
  }
  // If the HTTP response
 code is 200 as defined in example definition, your page structure would look as follows. Please pay attention that all
the values in the output are fake values for just demo purposes.
  // page.LicensesListResult = armhybridcompute.LicensesListResult{
  //  Value: []*armhybridcompute.License{
  //   {
  //    Name: to.Ptr("{licenseName}"),
  //    Type: to.Ptr("Microsoft.HybridCompute/licenses"),
  //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
  //    Location: to.Ptr("eastus2euap"),
  //    Properties: &armhybridcompute.LicenseProperties{
  //     LicenseDetails: &armhybridcompute.LicenseDetails{
  //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
  //      AssignedLicenses: to.Ptr[int32](8),
  //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
  //      ImmutableID: to.Ptr("<generated Guid>"),
  //      Processors: to.Ptr[int32](6),
  //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
  //
     Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
  //     },
  //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  //     TenantID: to.Ptr("{tenandId}"),
  //    },
```

```
 //  }},
 // }
 }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/f4c6c8697c59f966db0d1e36b62df3af3bca9065/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-03-31-
preview/examples/license/License_ListBySubscription.json
func ExampleLicensesClient_NewListBySubscriptionPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListBySubscriptionPager(nil)
 for pager.More()
 {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
   // You could use page here. We use blank identifier for just demo purposes.
   _ = v
  }
  // If the HTTP response code is 200 as defined in example definition, your page structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
  // page.LicensesListResult = armhybridcompute.LicensesListResult{
  //  Value: []*armhybridcompute.License{
  //   {
  //    Name: to.Ptr("{licenseName}"),
  //    Type: to.Ptr("Microsoft.HybridCompute/licenses"),
  //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
  //    Location: to.Ptr("eastus2euap"),
  //    Properties: &armhybridcompute.LicenseProperties{
  //     LicenseDetails: &armhybridcompute.LicenseDetails{
  //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
  //
     AssignedLicenses: to.Ptr[int32](8),
  //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
  //      ImmutableID: to.Ptr("<generated Guid>"),
```

```
  //      Processors: to.Ptr[int32](6),
  //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
  //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
  //     },
  //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  //     TenantID: to.Ptr("{tenandId}"),
  //    },
  //  }},
  // }
 }
}
```

aztemplate

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//go:build go1.18
// +build go1.18

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// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package fake

import (
 "context"
 "errors"
 "fmt"
 azfake "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake/server"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
 "net/http"
 "net/url"
 "regexp"
)

// LicensesServer is a fake server for instances of the armhybridcompute.LicensesClient type.
type LicensesServer struct {
 // BeginCreateOrUpdate is the fake for method LicensesClient.BeginCreateOrUpdate
 // HTTP status codes to indicate success:
 http.StatusOK
 BeginCreateOrUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
armhybridcompute.License, options *armhybridcompute.LicensesClientBeginCreateOrUpdateOptions) (resp
```

```
azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse], errResp
azfake.ErrorResponder)

 // BeginDelete is the fake for method LicensesClient.BeginDelete
 // HTTP status codes to indicate success: http.StatusOK, http.StatusNoContent
 BeginDelete func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientBeginDeleteOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse], errResp azfake.ErrorResponder)

 // Get is the fake for method LicensesClient.Get
 // HTTP status codes to indicate success: http.StatusOK
 Get func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientGetOptions) (resp
azfake.Responder[armhybridcompute.LicensesClientGetResponse],
 errResp azfake.ErrorResponder)

 // NewListByResourceGroupPager is the fake for method LicensesClient.NewListByResourceGroupPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListByResourceGroupPager func(resourceGroupName string, options
*armhybridcompute.LicensesClientListByResourceGroupOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse])

 // NewListBySubscriptionPager is the fake for method LicensesClient.NewListBySubscriptionPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListBySubscriptionPager func(options *armhybridcompute.LicensesClientListBySubscriptionOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse])

 // BeginUpdate is the fake for method LicensesClient.BeginUpdate
 // HTTP status codes to indicate success: http.StatusOK
 BeginUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
 armhybridcompute.LicenseUpdate, options *armhybridcompute.LicensesClientBeginUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse], errResp azfake.ErrorResponder)
}

// NewLicensesServerTransport creates a new instance of LicensesServerTransport with the provided
implementation.
// The returned LicensesServerTransport instance is connected to an instance of armhybridcompute.LicensesClient
via the
// azcore.ClientOptions.Transporter field in the client's constructor parameters.
func NewLicensesServerTransport(srv *LicensesServer) *LicensesServerTransport {
 return &LicensesServerTransport{
  srv:                    srv,
  beginCreateOrUpdate:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]](),
  beginDelete:            newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]](),
  newListByResourceGroupPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]](),
  newListBySubscriptionPager:
```

```
 newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]](),
 beginUpdate:                newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]](),
 }
}

// LicensesServerTransport connects instances of armhybridcompute.LicensesClient to instances of LicensesServer.
// Don't use this type directly, use NewLicensesServerTransport instead.
type LicensesServerTransport struct {
 srv                     *LicensesServer
 beginCreateOrUpdate
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]]
 beginDelete                *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]]
 newListByResourceGroupPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]]
 newListBySubscriptionPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]]
 beginUpdate
                *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]]
}

// Do implements the policy.Transporter interface for LicensesServerTransport.
func (l *LicensesServerTransport) Do(req *http.Request) (*http.Response, error) {
 rawMethod := req.Context().Value(runtime.CtxAPINameKey{})
 method, ok := rawMethod.(string)
 if !ok {
  return nil, nonRetriableError{errors.New("unable to dispatch request, missing value for CtxAPINameKey")}
 }

 var resp *http.Response
 var err error

 switch method {
 case "LicensesClient.BeginCreateOrUpdate":
  resp, err = l.dispatchBeginCreateOrUpdate(req)
 case "LicensesClient.BeginDelete":
  resp, err = l.dispatchBeginDelete(req)
 case "LicensesClient.Get":
  resp, err = l.dispatchGet(req)
 case "LicensesClient.NewListByResourceGroupPager":
  resp, err = l.dispatchNewListByResourceGroupPager(req)
 case "LicensesClient.NewListBySubscriptionPager":
  resp, err = l.dispatchNewListBySubscriptionPager(req)
 case
 "LicensesClient.BeginUpdate":
  resp, err = l.dispatchBeginUpdate(req)
 default:
  err = fmt.Errorf("unhandled API %s", method)
 }
```

```
 if err != nil {
  return nil, err
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginCreateOrUpdate(req *http.Request) (*http.Response, error) {
 if l.srv.BeginCreateOrUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginCreateOrUpdate not implemented")}
 }
 beginCreateOrUpdate := l.beginCreateOrUpdate.get(req)
 if beginCreateOrUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body,
 err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginCreateOrUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body,
nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginCreateOrUpdate = &respr
  l.beginCreateOrUpdate.add(req, beginCreateOrUpdate)
 }

 resp, err := server.PollerResponderNext(beginCreateOrUpdate, req)
 if err != nil {
  return nil, err
 }
```

```
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginCreateOrUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if
 !server.PollerResponderMore(beginCreateOrUpdate) {
  l.beginCreateOrUpdate.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginDelete(req *http.Request) (*http.Response, error) {
 if l.srv.BeginDelete == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginDelete not implemented")}
 }
 beginDelete := l.beginDelete.get(req)
 if beginDelete == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return
 nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginDelete(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginDelete = &respr
  l.beginDelete.add(req, beginDelete)
 }

 resp, err := server.PollerResponderNext(beginDelete, req)
 if err != nil {
  return nil, err
```

```
 }

 if !contains([]int{http.StatusOK, http.StatusNoContent}, resp.StatusCode) {
  l.beginDelete.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK,
http.StatusNoContent", resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginDelete) {
  l.beginDelete.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchGet(req *http.Request) (*http.Response, error) {
 if l.srv.Get == nil {
  return nil, &nonRetriableError{errors.New("fake
 for method Get not implemented")}
 }
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
 regex := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 3 {
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
  return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.Get(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 respContent := server.GetResponseContent(respr)
 if
 !contains([]int{http.StatusOK}, respContent.HTTPStatus) {
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
respContent.HTTPStatus)}
 }
 resp, err := server.MarshalResponseAsJSON(respContent, server.GetResponse(respr).License, req)
 if err != nil {
  return nil, err
```

```
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListByResourceGroupPager(req *http.Request) (*http.Response,
error) {
 if l.srv.NewListByResourceGroupPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListByResourceGroupPager not implemented")}
 }
 newListByResourceGroupPager := l.newListByResourceGroupPager.get(req)
 if newListByResourceGroupPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches :=
 regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 2 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  resp := l.srv.NewListByResourceGroupPager(resourceGroupNameParam, nil)
  newListByResourceGroupPager = &resp
  l.newListByResourceGroupPager.add(req, newListByResourceGroupPager)
  server.PagerResponderInjectNextLinks(newListByResourceGroupPager, req, func(page
*armhybridcompute.LicensesClientListByResourceGroupResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp, err := server.PagerResponderNext(newListByResourceGroupPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListByResourceGroupPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values
 are http.StatusOK", resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListByResourceGroupPager) {
  l.newListByResourceGroupPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListBySubscriptionPager(req *http.Request) (*http.Response, error)
```

```
{
 if l.srv.NewListBySubscriptionPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListBySubscriptionPager not implemented")}
 }
 newListBySubscriptionPager := l.newListBySubscriptionPager.get(req)
 if newListBySubscriptionPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 1 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resp := l.srv.NewListBySubscriptionPager(nil)
  newListBySubscriptionPager = &resp
  l.newListBySubscriptionPager.add(req,
 newListBySubscriptionPager)
  server.PagerResponderInjectNextLinks(newListBySubscriptionPager, req, func(page
*armhybridcompute.LicensesClientListBySubscriptionResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp, err := server.PagerResponderNext(newListBySubscriptionPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListBySubscriptionPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListBySubscriptionPager) {
  l.newListBySubscriptionPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginUpdate(req *http.Request) (*http.Response, error) {
 if l.srv.BeginUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginUpdate not implemented")}
 }
 beginUpdate := l.beginUpdate.get(req)
 if
 beginUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
```

```
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 3 {
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 body, err := server.UnmarshalRequestAsJSON[armhybridcompute.LicenseUpdate](req)
 if err != nil {
  return nil, err
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
  return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.BeginUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body, nil)
 if respErr := server.GetError(errRespr,
req); respErr != nil {
  return nil, respErr
 }
 beginUpdate = &respr
 l.beginUpdate.add(req, beginUpdate)
 }

 resp, err := server.PollerResponderNext(beginUpdate, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginUpdate) {
  l.beginUpdate.remove(req)
 }

 return resp, nil
}
//go:build go1.18
// +build go1.18

// Copyright (c) Microsoft Corporation. All rights reserved.
// Licensed under the MIT License. See License.txt in the project root for license information.
// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.
```

```
package armhybridcompute

import (
 "context"
 "errors"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/arm"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/policy"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "net/http"
 "net/url"
 "strings"
)

// LicensesClient contains the methods for the Licenses group.
// Don't use this type directly, use NewLicensesClient() instead.
type LicensesClient struct {
 internal       *arm.Client
 subscriptionID string
}

// NewLicensesClient creates a new instance of LicensesClient with the specified values.
//   - subscriptionID - The ID of the target
 subscription.
//   - credential - used to authorize requests. Usually a credential from azidentity.
//   - options - pass nil to accept the default values.
func NewLicensesClient(subscriptionID string, credential azcore.TokenCredential, options *arm.ClientOptions)
(*LicensesClient, error) {
 cl, err := arm.NewClient(moduleName, moduleVersion, credential, options)
 if err != nil {
  return nil, err
 }
 client := &LicensesClient{
  subscriptionID: subscriptionID,
  internal:       cl,
 }
 return client, nil
}

// BeginCreateOrUpdate - The operation to create or update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-03-31-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - parameters - Parameters supplied to the Create license operation.
//   - options - LicensesClientBeginCreateOrUpdateOptions contains the optional parameters
```

```
 for the LicensesClient.BeginCreateOrUpdate
//     method.
func (client *LicensesClient) BeginCreateOrUpdate(ctx context.Context, resourceGroupName string, licenseName
string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions)
(*runtime.Poller[LicensesClientCreateOrUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.createOrUpdate(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// CreateOrUpdate - The operation to create or update a license.
// If the
 operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-03-31-preview
func (client *LicensesClient) createOrUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginCreateOrUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.createOrUpdateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
```

```
}

// createOrUpdateCreateRequest creates
 the CreateOrUpdate request.
func (client *LicensesClient) createOrUpdateCreateRequest(ctx context.Context, resourceGroupName string,
licenseName string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*policy.Request,
error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx,
 http.MethodPut, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-03-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginDelete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-03-31-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientBeginDeleteOptions contains the optional parameters for the
LicensesClient.BeginDelete method.
func (client *LicensesClient) BeginDelete(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*runtime.Poller[LicensesClientDeleteResponse],
```

```
 error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.deleteOperation(ctx, resourceGroupName, licenseName, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// Delete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-03-31-preview
func (client *LicensesClient) deleteOperation(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*http.Response, error) {
 var err error
 const
 operationName = "LicensesClient.BeginDelete"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.deleteCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK, http.StatusNoContent) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// deleteCreateRequest creates the Delete request.
func (client *LicensesClient) deleteCreateRequest(ctx context.Context, resourceGroupName string, licenseName
```

```
string, options *LicensesClientBeginDeleteOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodDelete, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-03-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// Get - Retrieves information about the view of a license.
//
 If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-03-31-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientGetOptions contains the optional parameters for the LicensesClient.Get method.
func (client *LicensesClient) Get(ctx context.Context, resourceGroupName string, licenseName string, options
*LicensesClientGetOptions) (LicensesClientGetResponse, error) {
 var err error
 const operationName = "LicensesClient.Get"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.getCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return LicensesClientGetResponse{}, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
```

```
 if err != nil
 {
  return LicensesClientGetResponse{}, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return LicensesClientGetResponse{}, err
 }
 resp, err := client.getHandleResponse(httpResp)
 return resp, err
}

// getCreateRequest creates the Get request.
func (client *LicensesClient) getCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientGetOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
 licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-03-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// getHandleResponse handles the Get response.
func (client *LicensesClient) getHandleResponse(resp *http.Response) (LicensesClientGetResponse, error) {
 result := LicensesClientGetResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.License); err != nil {
  return LicensesClientGetResponse{}, err
 }
```

```
 return result, nil
}

// NewListByResourceGroupPager - The operation to get all licenses of a non-Azure machine
//
// Generated from
 API version 2024-03-31-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - options - LicensesClientListByResourceGroupOptions contains the optional parameters for the
LicensesClient.NewListByResourceGroupPager
//     method.
func (client *LicensesClient) NewListByResourceGroupPager(resourceGroupName string, options
*LicensesClientListByResourceGroupOptions) *runtime.Pager[LicensesClientListByResourceGroupResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListByResourceGroupResponse]{
  More: func(page LicensesClientListByResourceGroupResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListByResourceGroupResponse)
(LicensesClientListByResourceGroupResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListByResourceGroupPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp,
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listByResourceGroupCreateRequest(ctx, resourceGroupName, options)
   }, nil)
   if err != nil {
    return LicensesClientListByResourceGroupResponse{}, err
   }
   return client.listByResourceGroupHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listByResourceGroupCreateRequest creates the ListByResourceGroup request.
func (client *LicensesClient) listByResourceGroupCreateRequest(ctx context.Context, resourceGroupName string,
options *LicensesClientListByResourceGroupOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es"
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
```

```
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-03-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listByResourceGroupHandleResponse handles the ListByResourceGroup response.
func (client *LicensesClient) listByResourceGroupHandleResponse(resp *http.Response)
(LicensesClientListByResourceGroupResponse, error) {
 result := LicensesClientListByResourceGroupResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListByResourceGroupResponse{}, err
 }
 return
 result, nil
}

// NewListBySubscriptionPager - The operation to get all licenses of a non-Azure machine
//
// Generated from API version 2024-03-31-preview
//   - options - LicensesClientListBySubscriptionOptions contains the optional parameters for the
LicensesClient.NewListBySubscriptionPager
//     method.
func (client *LicensesClient) NewListBySubscriptionPager(options *LicensesClientListBySubscriptionOptions)
*runtime.Pager[LicensesClientListBySubscriptionResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListBySubscriptionResponse]{
  More: func(page LicensesClientListBySubscriptionResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListBySubscriptionResponse)
(LicensesClientListBySubscriptionResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListBySubscriptionPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp,
```

```
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listBySubscriptionCreateRequest(ctx, options)
   }, nil)
   if err != nil {
    return LicensesClientListBySubscriptionResponse{}, err
   }
   return client.listBySubscriptionHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listBySubscriptionCreateRequest creates the ListBySubscription request.
func (client *LicensesClient) listBySubscriptionCreateRequest(ctx context.Context, options
*LicensesClientListBySubscriptionOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/licenses"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet,
 runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-03-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listBySubscriptionHandleResponse handles the ListBySubscription response.
func (client *LicensesClient) listBySubscriptionHandleResponse(resp *http.Response)
(LicensesClientListBySubscriptionResponse, error) {
 result := LicensesClientListBySubscriptionResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListBySubscriptionResponse{}, err
 }
 return result, nil
}

// BeginUpdate - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-03-31-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
```

```
//   - licenseName
 - The name of the license.
//   - parameters - Parameters supplied to the Update license operation.
//   - options - LicensesClientBeginUpdateOptions contains the optional parameters for the
LicensesClient.BeginUpdate method.
func (client *LicensesClient) BeginUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions)
(*runtime.Poller[LicensesClientUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.update(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientUpdateResponse]{
   Tracer:
 client.internal.Tracer(),
  })
 }
}

// Update - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-03-31-preview
func (client *LicensesClient) update(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.updateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
```

```
 return
 nil, err
 }
 return httpResp, nil
}

// updateCreateRequest creates the Update request.
func (client *LicensesClient) updateCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}",
 url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodPatch, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-03-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}
```

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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This software package is based on the paper
I. Bogaert, "Iteration-Free Computation of Gauss-Legendre Quadrature Nodes and Weights",
to be published in the SIAM Journal of Scientific Computing.

The main features of this software are:
- Speed: due to the simple formulas and the O(1) complexity computation of individual Gauss-Legendre quadrature nodes and weights. This makes it compatible with parallel computing paradigms.
- Accuracy: the error on the nodes and weights is within a few ulps (see the paper for details).

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A C-program for MT19937-64 (2004/9/29 version).
Coded by Takuji Nishimura and Makoto Matsumoto.

This is a 64-bit version of Mersenne Twister pseudorandom number
generator.

Before using, initialize the state by using init_genrand64(seed)
or init_by_array64(init_key, key_length).

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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The main features of this software are:
- Speed: due to the simple formulas and the O(1) complexity computation of individual Gauss-Legendre quadrature nodes and weights. This makes it compatible with parallel computing paradigms.
- Accuracy: the error on the nodes and weights is within a few ulps (see the paper for details).

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- [ntriple_tests.tar.gz](https://w3c.github.io/rdf-tests/ntriples/TESTS.tar.gz)
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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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This software package is based on the paper
I. Bogaert, "Iteration-Free Computation of Gauss-Legendre Quadrature Nodes and Weights",
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The main features of this software are:
- Speed: due to the simple formulas and the O(1) complexity computation of individual Gauss-Legendre quadrature nodes and weights. This makes it compatible with parallel computing paradigms.
- Accuracy: the error on the nodes and weights is within a few ulps (see the paper for details).

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A C-program for MT19937-64 (2004/9/29 version).
Coded by Takuji Nishimura and Makoto Matsumoto.

This is a 64-bit version of Mersenne Twister pseudorandom number

generator.

Before using, initialize the state by using init_genrand64(seed)
or init_by_array64(init_key, key_length).

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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This software package is based on the paper
I. Bogaert, "Iteration-Free Computation of Gauss-Legendre Quadrature Nodes and Weights",
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The main features of this software are:
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A C-program for MT19937-64 (2004/9/29 version).
Coded by Takuji Nishimura and Makoto Matsumoto.

This is a 64-bit version of Mersenne Twister pseudorandom number generator.

Before using, initialize the state by using init_genrand64(seed) or init_by_array64(init_key, key_length).

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M. Matsumoto and T. Nishimura,
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1.5368 missinggo v2.1.0

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1.5369 azure-sdk-for-go-sdk-azcore v1.16.0

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```
//go:build go1.18
// +build go1.18

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// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package fake

import (
 "context"
 "errors"
 "fmt"
 azfake "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake"
```

```
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake/server"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
 "net/http"
 "net/url"
 "regexp"
)

// LicensesServer is a fake server for instances of the armhybridcompute.LicensesClient type.
type LicensesServer struct {
 // BeginCreateOrUpdate is the fake for method LicensesClient.BeginCreateOrUpdate
 // HTTP status codes to indicate success:
 http.StatusOK
 BeginCreateOrUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
armhybridcompute.License, options *armhybridcompute.LicensesClientBeginCreateOrUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse], errResp
azfake.ErrorResponder)

 // BeginDelete is the fake for method LicensesClient.BeginDelete
 // HTTP status codes to indicate success: http.StatusOK, http.StatusNoContent
 BeginDelete func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientBeginDeleteOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse], errResp azfake.ErrorResponder)

 // Get is the fake for method LicensesClient.Get
 // HTTP status codes to indicate success: http.StatusOK
 Get func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientGetOptions) (resp
azfake.Responder[armhybridcompute.LicensesClientGetResponse],
 errResp azfake.ErrorResponder)

 // NewListByResourceGroupPager is the fake for method LicensesClient.NewListByResourceGroupPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListByResourceGroupPager func(resourceGroupName string, options
*armhybridcompute.LicensesClientListByResourceGroupOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse])

 // NewListBySubscriptionPager is the fake for method LicensesClient.NewListBySubscriptionPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListBySubscriptionPager func(options *armhybridcompute.LicensesClientListBySubscriptionOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse])

 // BeginUpdate is the fake for method LicensesClient.BeginUpdate
 // HTTP status codes to indicate success: http.StatusOK
 BeginUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
 armhybridcompute.LicenseUpdate, options *armhybridcompute.LicensesClientBeginUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse], errResp azfake.ErrorResponder)
```

```
 // BeginValidateLicense is the fake for method LicensesClient.BeginValidateLicense
 // HTTP status codes to indicate success: http.StatusOK
 BeginValidateLicense func(ctx context.Context, parameters armhybridcompute.License, options
*armhybridcompute.LicensesClientBeginValidateLicenseOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse], errResp
azfake.ErrorResponder)
}

// NewLicensesServerTransport creates a new instance of LicensesServerTransport with the provided
implementation.
// The returned LicensesServerTransport instance is connected to an instance of armhybridcompute.LicensesClient
via the
// azcore.ClientOptions.Transporter field in the client's constructor parameters.
func NewLicensesServerTransport(srv *LicensesServer) *LicensesServerTransport
 {
 return &LicensesServerTransport{
  srv:                    srv,
  beginCreateOrUpdate:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]](),
  beginDelete:            newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]](),
  newListByResourceGroupPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]](),
  newListBySubscriptionPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]](),
  beginUpdate:            newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]](),
  beginValidateLicense:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]](),
 }
}

// LicensesServerTransport connects instances of armhybridcompute.LicensesClient to instances of LicensesServer.
// Don't use this type directly, use NewLicensesServerTransport
 instead.
type LicensesServerTransport struct {
 srv                    *LicensesServer
 beginCreateOrUpdate
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]]
 beginDelete            *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]]
 newListByResourceGroupPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]]
 newListBySubscriptionPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]]
 beginUpdate            *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]]
 beginValidateLicense
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]]
}
```

```
// Do implements the policy.Transporter interface for LicensesServerTransport.
func (l *LicensesServerTransport) Do(req *http.Request) (*http.Response, error) {
 rawMethod := req.Context().Value(runtime.CtxAPINameKey{})
 method,
 ok := rawMethod.(string)
 if !ok {
  return nil, nonRetriableError{errors.New("unable to dispatch request, missing value for CtxAPINameKey")}
 }

 var resp *http.Response
 var err error

 switch method {
 case "LicensesClient.BeginCreateOrUpdate":
  resp, err = l.dispatchBeginCreateOrUpdate(req)
 case "LicensesClient.BeginDelete":
  resp, err = l.dispatchBeginDelete(req)
 case "LicensesClient.Get":
  resp, err = l.dispatchGet(req)
 case "LicensesClient.NewListByResourceGroupPager":
  resp, err = l.dispatchNewListByResourceGroupPager(req)
 case "LicensesClient.NewListBySubscriptionPager":
  resp, err = l.dispatchNewListBySubscriptionPager(req)
 case "LicensesClient.BeginUpdate":
  resp, err = l.dispatchBeginUpdate(req)
 case "LicensesClient.BeginValidateLicense":
  resp, err = l.dispatchBeginValidateLicense(req)
 default:
  err = fmt.Errorf("unhandled API %s", method)
 }

 if err != nil {
  return nil, err
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginCreateOrUpdate(req
 *http.Request) (*http.Response, error) {
 if l.srv.BeginCreateOrUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginCreateOrUpdate not implemented")}
 }
 beginCreateOrUpdate := l.beginCreateOrUpdate.get(req)
 if beginCreateOrUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
```

```
 regex := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 3 {
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 body, err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
 if err != nil {
  return nil, err
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
  return
nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.BeginCreateOrUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body,
nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 beginCreateOrUpdate = &respr
 l.beginCreateOrUpdate.add(req, beginCreateOrUpdate)
 }

 resp, err := server.PollerResponderNext(beginCreateOrUpdate, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginCreateOrUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginCreateOrUpdate) {
  l.beginCreateOrUpdate.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginDelete(req *http.Request) (*http.Response, error) {
 if l.srv.BeginDelete
 == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginDelete not implemented")}
```

```
 }
 beginDelete := l.beginDelete.get(req)
 if beginDelete == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginDelete(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
  if
 respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginDelete = &respr
  l.beginDelete.add(req, beginDelete)
 }

 resp, err := server.PollerResponderNext(beginDelete, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK, http.StatusNoContent}, resp.StatusCode) {
  l.beginDelete.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK,
http.StatusNoContent", resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginDelete) {
  l.beginDelete.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchGet(req *http.Request) (*http.Response, error) {
 if l.srv.Get == nil {
  return nil, &nonRetriableError{errors.New("fake for method Get not implemented")}
```

```
 }
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
 regex
 := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 3 {
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
  return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.Get(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 respContent := server.GetResponseContent(respr)
 if !contains([]int{http.StatusOK}, respContent.HTTPStatus) {
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
respContent.HTTPStatus)}
 }
 resp, err := server.MarshalResponseAsJSON(respContent,
 server.GetResponse(respr).License, req)
 if err != nil {
  return nil, err
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListByResourceGroupPager(req *http.Request) (*http.Response,
error) {
 if l.srv.NewListByResourceGroupPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListByResourceGroupPager not implemented")}
 }
 newListByResourceGroupPager := l.newListByResourceGroupPager.get(req)
 if newListByResourceGroupPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 2 {
```

```
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if
err != nil {
  return nil, err
 }
 resp := l.srv.NewListByResourceGroupPager(resourceGroupNameParam, nil)
 newListByResourceGroupPager = &resp
 l.newListByResourceGroupPager.add(req, newListByResourceGroupPager)
 server.PagerResponderInjectNextLinks(newListByResourceGroupPager, req, func(page
*armhybridcompute.LicensesClientListByResourceGroupResponse, createLink func() string) {
  page.NextLink = to.Ptr(createLink())
 })
}
resp, err := server.PagerResponderNext(newListByResourceGroupPager, req)
if err != nil {
 return nil, err
}
if !contains([]int{http.StatusOK}, resp.StatusCode) {
 l.newListByResourceGroupPager.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}
if !server.PagerResponderMore(newListByResourceGroupPager) {
 l.newListByResourceGroupPager.remove(req)
}
return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListBySubscriptionPager(req *http.Request)
(*http.Response, error) {
if l.srv.NewListBySubscriptionPager == nil {
 return nil, &nonRetriableError{errors.New("fake for method NewListBySubscriptionPager not implemented")}
}
newListBySubscriptionPager := l.newListBySubscriptionPager.get(req)
if newListBySubscriptionPager == nil {
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
 regex := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 1 {
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resp := l.srv.NewListBySubscriptionPager(nil)
 newListBySubscriptionPager = &resp
 l.newListBySubscriptionPager.add(req, newListBySubscriptionPager)
 server.PagerResponderInjectNextLinks(newListBySubscriptionPager, req, func(page
```

```
*armhybridcompute.LicensesClientListBySubscriptionResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp,
 err := server.PagerResponderNext(newListBySubscriptionPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListBySubscriptionPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListBySubscriptionPager) {
  l.newListBySubscriptionPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginUpdate(req *http.Request) (*http.Response, error) {
 if l.srv.BeginUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginUpdate not implemented")}
 }
 beginUpdate := l.beginUpdate.get(req)
 if beginUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex
 := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.LicenseUpdate](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body, nil)
```

```
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 beginUpdate = &respr
 l.beginUpdate.add(req, beginUpdate)
}

resp, err := server.PollerResponderNext(beginUpdate, req)
if err != nil {
 return nil, err
}

if !contains([]int{http.StatusOK},
resp.StatusCode) {
 l.beginUpdate.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}
if !server.PollerResponderMore(beginUpdate) {
 l.beginUpdate.remove(req)
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginValidateLicense(req *http.Request) (*http.Response, error) {
if l.srv.BeginValidateLicense == nil {
 return nil, &nonRetriableError{errors.New("fake for method BeginValidateLicense not implemented")}
}
beginValidateLicense := l.beginValidateLicense.get(req)
if beginValidateLicense == nil {
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/validateLicense`
 regex := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 1 {
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 body,
err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.BeginValidateLicense(req.Context(), body, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 beginValidateLicense = &respr
```

```
 l.beginValidateLicense.add(req, beginValidateLicense)
 }

 resp, err := server.PollerResponderNext(beginValidateLicense, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginValidateLicense.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginValidateLicense) {
  l.beginValidateLicense.remove(req)
 }

 return resp, nil
}
```

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```
{
 "main": "dist/src/index.js",
 "dependencies": {
  "@azure-tools/typespec-go": "0.3.0"
 },
 "devDependencies": {
  "@azure-tools/typespec-autorest": "0.44.1",
```

```
   "@azure-tools/typespec-azure-core": "0.44.0",
   "@azure-tools/typespec-azure-resource-manager": "0.44.0",
   "@azure-tools/typespec-azure-rulesets": "0.44.0",
   "@azure-tools/typespec-client-generator-core": "0.44.3",
   "@typespec/compiler": "0.58.1",
   "@typespec/http": "0.58.0",
   "@typespec/openapi": "0.58.0",
   "@typespec/rest": "0.58.0",
   "@typespec/versioning": "0.58.0"
 }
}
//go:build go1.18
// +build go1.18

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// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package armhybridcompute

import (
 "context"
 "errors"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/arm"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/policy"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "net/http"
 "net/url"
 "strings"
)

// LicensesClient contains the methods for the Licenses group.
// Don't use this type directly, use NewLicensesClient() instead.
type LicensesClient struct {
 internal       *arm.Client
 subscriptionID string
}

// NewLicensesClient creates a new instance of LicensesClient with the specified values.
//   - subscriptionID - The ID of the target
 subscription.
//   - credential - used to authorize requests. Usually a credential from azidentity.
//   - options - pass nil to accept the default values.
func NewLicensesClient(subscriptionID string, credential azcore.TokenCredential, options *arm.ClientOptions)
(*LicensesClient, error) {
 cl, err := arm.NewClient(moduleName, moduleVersion, credential, options)
```

```
 if err != nil {
  return nil, err
 }
 client := &LicensesClient{
  subscriptionID: subscriptionID,
  internal:       cl,
 }
 return client, nil
}

// BeginCreateOrUpdate - The operation to create or update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-10
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - parameters - Parameters supplied to the Create license operation.
//   - options - LicensesClientBeginCreateOrUpdateOptions contains the optional parameters for
 the LicensesClient.BeginCreateOrUpdate
//     method.
func (client *LicensesClient) BeginCreateOrUpdate(ctx context.Context, resourceGroupName string, licenseName
string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions)
(*runtime.Poller[LicensesClientCreateOrUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.createOrUpdate(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// CreateOrUpdate - The operation to create or update a license.
// If the operation
 fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-10
func (client *LicensesClient) createOrUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*http.Response, error) {
```

```
 var err error
 const operationName = "LicensesClient.BeginCreateOrUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.createOrUpdateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// createOrUpdateCreateRequest creates the CreateOrUpdate
 request.
func (client *LicensesClient) createOrUpdateCreateRequest(ctx context.Context, resourceGroupName string,
licenseName string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*policy.Request,
error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx,
 http.MethodPut, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-10")
 req.Raw().URL.RawQuery = reqQP.Encode()
```

```
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginDelete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-10
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientBeginDeleteOptions contains the optional parameters for the
LicensesClient.BeginDelete method.
func (client *LicensesClient) BeginDelete(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*runtime.Poller[LicensesClientDeleteResponse],
 error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.deleteOperation(ctx, resourceGroupName, licenseName, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// Delete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-10
func (client *LicensesClient) deleteOperation(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginDelete"
 ctx
 = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
```

```
 req, err := client.deleteCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK, http.StatusNoContent) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// deleteCreateRequest creates the Delete request.
func (client *LicensesClient) deleteCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientBeginDeleteOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return
 nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodDelete, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-10")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// Get - Retrieves information about the view of a license.
// If the operation fails it returns an *azcore.ResponseError
```

```
 type.
//
// Generated from API version 2024-07-10
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientGetOptions contains the optional parameters for the LicensesClient.Get method.
func (client *LicensesClient) Get(ctx context.Context, resourceGroupName string, licenseName string, options
*LicensesClientGetOptions) (LicensesClientGetResponse, error) {
 var err error
 const operationName = "LicensesClient.Get"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.getCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return LicensesClientGetResponse{}, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return LicensesClientGetResponse{}, err
 }
 if !runtime.HasStatusCode(httpResp,
 http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return LicensesClientGetResponse{}, err
 }
 resp, err := client.getHandleResponse(httpResp)
 return resp, err
}

// getCreateRequest creates the Get request.
func (client *LicensesClient) getCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientGetOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return
 nil, errors.New("parameter licenseName cannot be empty")
 }
```

```
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-10")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// getHandleResponse handles the Get response.
func (client *LicensesClient) getHandleResponse(resp *http.Response) (LicensesClientGetResponse, error) {
 result := LicensesClientGetResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.License); err != nil {
  return LicensesClientGetResponse{}, err
 }
 return result, nil
}

// NewListByResourceGroupPager - The operation to get all licenses of a non-Azure machine
//
// Generated from API version 2024-07-10
//   - resourceGroupName - The name of the
 resource group. The name is case insensitive.
//   - options - LicensesClientListByResourceGroupOptions contains the optional parameters for the
LicensesClient.NewListByResourceGroupPager
//     method.
func (client *LicensesClient) NewListByResourceGroupPager(resourceGroupName string, options
*LicensesClientListByResourceGroupOptions) *runtime.Pager[LicensesClientListByResourceGroupResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListByResourceGroupResponse]{
  More: func(page LicensesClientListByResourceGroupResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListByResourceGroupResponse)
(LicensesClientListByResourceGroupResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListByResourceGroupPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp, err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(),
  nextLink, func(ctx context.Context) (*policy.Request, error) {
    return client.listByResourceGroupCreateRequest(ctx, resourceGroupName, options)
   }, nil)
   if err != nil {
    return LicensesClientListByResourceGroupResponse{}, err
```

```
   }
   return client.listByResourceGroupHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listByResourceGroupCreateRequest creates the ListByResourceGroup request.
func (client *LicensesClient) listByResourceGroupCreateRequest(ctx context.Context, resourceGroupName string,
options *LicensesClientListByResourceGroupOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es"
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if client.subscriptionID == "" {
  return nil,
 errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-10")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listByResourceGroupHandleResponse handles the ListByResourceGroup response.
func (client *LicensesClient) listByResourceGroupHandleResponse(resp *http.Response)
(LicensesClientListByResourceGroupResponse, error) {
 result := LicensesClientListByResourceGroupResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListByResourceGroupResponse{}, err
 }
 return result, nil
}

// NewListBySubscriptionPager - The operation to get all licenses
 of a non-Azure machine
//
// Generated from API version 2024-07-10
//   - options - LicensesClientListBySubscriptionOptions contains the optional parameters for the
```

```
LicensesClient.NewListBySubscriptionPager
//     method.
func (client *LicensesClient) NewListBySubscriptionPager(options *LicensesClientListBySubscriptionOptions)
*runtime.Pager[LicensesClientListBySubscriptionResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListBySubscriptionResponse]{
  More: func(page LicensesClientListBySubscriptionResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListBySubscriptionResponse)
(LicensesClientListBySubscriptionResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListBySubscriptionPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp, err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(),
 nextLink, func(ctx context.Context) (*policy.Request, error) {
    return client.listBySubscriptionCreateRequest(ctx, options)
   }, nil)
   if err != nil {
    return LicensesClientListBySubscriptionResponse{}, err
   }
   return client.listBySubscriptionHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listBySubscriptionCreateRequest creates the ListBySubscription request.
func (client *LicensesClient) listBySubscriptionCreateRequest(ctx context.Context, options
*LicensesClientListBySubscriptionOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/licenses"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil,
 err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-10")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}
```

```
// listBySubscriptionHandleResponse handles the ListBySubscription response.
func (client *LicensesClient) listBySubscriptionHandleResponse(resp *http.Response)
(LicensesClientListBySubscriptionResponse, error) {
 result := LicensesClientListBySubscriptionResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListBySubscriptionResponse{}, err
 }
 return result, nil
}

// BeginUpdate - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-10
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - parameters - Parameters supplied to the Update license operation.
//
   - options - LicensesClientBeginUpdateOptions contains the optional parameters for the
LicensesClient.BeginUpdate method.
func (client *LicensesClient) BeginUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions)
(*runtime.Poller[LicensesClientUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.update(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// Update - The operation to update a license.
//
 If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-10
func (client *LicensesClient) update(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*http.Response, error) {
```

```
 var err error
 const operationName = "LicensesClient.BeginUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.updateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// updateCreateRequest creates the Update request.
func (client
 *LicensesClient) updateCreateRequest(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodPatch, runtime.JoinPaths(client.internal.Endpoint(),
 urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-10")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
```

```
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-10
//   - parameters - Parameters supplied to the license validation operation.
//   - options - LicensesClientBeginValidateLicenseOptions contains the optional parameters for the
LicensesClient.BeginValidateLicense
//     method.
func (client *LicensesClient) BeginValidateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions) (*runtime.Poller[LicensesClientValidateLicenseResponse], error) {
 if options == nil || options.ResumeToken
 == "" {
  resp, err := client.validateLicense(ctx, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientValidateLicenseResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientValidateLicenseResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// ValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-10
func (client *LicensesClient) validateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginValidateLicense"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{},
 operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.validateLicenseCreateRequest(ctx, parameters, options)
```

```
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// validateLicenseCreateRequest creates the ValidateLicense request.
func (client *LicensesClient) validateLicenseCreateRequest(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/validateLicense"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}",
 url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodPost, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-10")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}
```

azwebpubsub

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package armhybridcompute_test

import (
 "context"
 "log"

 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/azidentity"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
)

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/f41d0c9332078cb2ef07b749081d94915255ada5/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/stable/2024-07-10/examples/license/License_ValidateLicense.json
func ExampleLicensesClient_BeginValidateLicense() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed
 to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginValidateLicense(ctx, armhybridcompute.License{
  Location: to.Ptr("eastus2euap"),
  Properties: &armhybridcompute.LicenseProperties{
   LicenseDetails: &armhybridcompute.LicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err != nil {
```

```
 log.Fatalf("failed
to pull the result: %v", err)
}
// You could use response here. We use blank identifier for just demo purposes.
_ = res
// If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
// res.License = armhybridcompute.License{
//  Name: to.Ptr("{licenseName}"),
//  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
//  ID: to.Ptr("/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/Licenses/{licenseName}"),
//  Location: to.Ptr("eastus2euap"),
//  Properties: &armhybridcompute.LicenseProperties{
//   LicenseDetails: &armhybridcompute.LicenseDetails{
//    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
//    AssignedLicenses: to.Ptr[int32](2),
//    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//    ImmutableID: to.Ptr("<generated Guid>"),
//    Processors: to.Ptr[int32](6),
//
   State: to.Ptr(armhybridcompute.LicenseStateActivated),
//    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//   },
//   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
//   TenantID: to.Ptr("{tenandId}"),
//  },
// }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/f41d0c9332078cb2ef07b749081d94915255ada5/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/stable/2024-07-10/examples/license/License_CreateOrUpdate.json
func ExampleLicensesClient_BeginCreateOrUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginCreateOrUpdate(ctx, "myResourceGroup", "{licenseName}",
 armhybridcompute.License{
  Location: to.Ptr("eastus2euap"),
  Properties: &armhybridcompute.LicenseProperties{
   LicenseDetails: &armhybridcompute.LicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
```

```
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are
 fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](2),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition:
 https://github.com/Azure/azure-rest-api-
specs/blob/f41d0c9332078cb2ef07b749081d94915255ada5/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/stable/2024-07-10/examples/license/License_Update.json
func ExampleLicensesClient_BeginUpdate() {
```

```
cred, err := azidentity.NewDefaultAzureCredential(nil)
if err != nil {
 log.Fatalf("failed to obtain a credential: %v", err)
}
ctx := context.Background()
clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
if err != nil {
 log.Fatalf("failed to create client: %v", err)
}
poller, err := clientFactory.NewLicensesClient().BeginUpdate(ctx, "myResourceGroup", "{licenseName}",
armhybridcompute.LicenseUpdate{
  Properties: &armhybridcompute.LicenseUpdateProperties{
   LicenseDetails: &armhybridcompute.LicenseUpdatePropertiesLicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors:
to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
}, nil)
if err != nil {
 log.Fatalf("failed to finish the request: %v", err)
}
res, err := poller.PollUntilDone(ctx, nil)
if err != nil {
 log.Fatalf("failed to pull the result: %v", err)
}
// You could use response here. We use blank identifier for just demo purposes.
_ = res
// If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
// res.License = armhybridcompute.License{
//  Name: to.Ptr("{licenseName}"),
//  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
//  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/lice
nses/{licenseName}"),
//
  Location: to.Ptr("eastus2euap"),
//  Properties: &armhybridcompute.LicenseProperties{
//   LicenseDetails: &armhybridcompute.LicenseDetails{
//    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
//    AssignedLicenses: to.Ptr[int32](8),
//    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//    ImmutableID: to.Ptr("<generated Guid>"),
```

```
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/f41d0c9332078cb2ef07b749081d94915255ada5/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/stable/2024-07-10/examples/license/License_Get.json
func ExampleLicensesClient_Get() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if
 err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 res, err := clientFactory.NewLicensesClient().Get(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //
  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
```

```
//    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//   },
//   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
//   TenantID: to.Ptr("{tenandId}"),
//  },
// }
}

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specs/blob/f41d0c9332078cb2ef07b749081d94915255ada5/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/stable/2024-07-10/examples/license/License_Delete.json
func ExampleLicensesClient_BeginDelete() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if
 err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginDelete(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 _, err = poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
}

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manager/Microsoft.HybridCompute/stable/2024-07-10/examples/license/License_ListByResourceGroup.json
func ExampleLicensesClient_NewListByResourceGroupPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed
 to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListByResourceGroupPager("myResourceGroup", nil)
 for pager.More() {
```

```
 page, err := pager.NextPage(ctx)
 if err != nil {
  log.Fatalf("failed to advance page: %v", err)
 }
 for _, v := range page.Value {
  // You could use page here. We use blank identifier for just demo purposes.
  _ = v
 }
 // If the HTTP response code is 200 as defined in example definition, your page structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // page.LicensesListResult = armhybridcompute.LicensesListResult{
 //  Value: []*armhybridcompute.License{
 //   {
 //    Name: to.Ptr("{licenseName}"),
 //    Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //
   ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //    Location: to.Ptr("eastus2euap"),
 //    Properties: &armhybridcompute.LicenseProperties{
 //     LicenseDetails: &armhybridcompute.LicenseDetails{
 //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //      AssignedLicenses: to.Ptr[int32](8),
 //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //      ImmutableID: to.Ptr("<generated Guid>"),
 //      Processors: to.Ptr[int32](6),
 //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //     },
 //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //     TenantID: to.Ptr("{tenandId}"),
 //    },
 //  }},
 // }
 }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/f41d0c9332078cb2ef07b749081d94915255ada5/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/stable/2024-07-10/examples/license/License_ListBySubscription.json
func
 ExampleLicensesClient_NewListBySubscriptionPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
```

```
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListBySubscriptionPager(nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
   // You could use page here. We use blank identifier for just demo purposes.
   _ = v
  }
  // If the HTTP response code is 200 as defined in example definition, your page structure would look as follows.
Please pay attention that all the values in the output
 are fake values for just demo purposes.
  // page.LicensesListResult = armhybridcompute.LicensesListResult{
  //  Value: []*armhybridcompute.License{
  //   {
  //    Name: to.Ptr("{licenseName}"),
  //    Type: to.Ptr("Microsoft.HybridCompute/licenses"),
  //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
  //    Location: to.Ptr("eastus2euap"),
  //    Properties: &armhybridcompute.LicenseProperties{
  //     LicenseDetails: &armhybridcompute.LicenseDetails{
  //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
  //      AssignedLicenses: to.Ptr[int32](8),
  //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
  //      ImmutableID: to.Ptr("<generated Guid>"),
  //      Processors: to.Ptr[int32](6),
  //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
  //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
  //     },
  //     LicenseType:
 to.Ptr(armhybridcompute.LicenseTypeESU),
  //     TenantID: to.Ptr("{tenandId}"),
  //    },
  //  }},
  // }
 }
}
```

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// +build go1.18

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// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package fake
```

```
import (
 "context"
 "errors"
 "fmt"
 azfake "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake/server"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
 "net/http"
 "net/url"
 "regexp"
)

// LicensesServer is a fake server for instances of the armhybridcompute.LicensesClient type.
type LicensesServer struct {
 // BeginCreateOrUpdate is the fake for method LicensesClient.BeginCreateOrUpdate
 // HTTP status codes to indicate success:
 http.StatusOK
 BeginCreateOrUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
armhybridcompute.License, options *armhybridcompute.LicensesClientBeginCreateOrUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse], errResp
azfake.ErrorResponder)

 // BeginDelete is the fake for method LicensesClient.BeginDelete
 // HTTP status codes to indicate success: http.StatusOK, http.StatusNoContent
 BeginDelete func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientBeginDeleteOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse], errResp azfake.ErrorResponder)

 // Get is the fake for method LicensesClient.Get
 // HTTP status codes to indicate success: http.StatusOK
 Get func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientGetOptions) (resp
azfake.Responder[armhybridcompute.LicensesClientGetResponse],
 errResp azfake.ErrorResponder)

 // NewListByResourceGroupPager is the fake for method LicensesClient.NewListByResourceGroupPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListByResourceGroupPager func(resourceGroupName string, options
*armhybridcompute.LicensesClientListByResourceGroupOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse])

 // NewListBySubscriptionPager is the fake for method LicensesClient.NewListBySubscriptionPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListBySubscriptionPager func(options *armhybridcompute.LicensesClientListBySubscriptionOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse])
```

```
 // BeginUpdate is the fake for method LicensesClient.BeginUpdate
 // HTTP status codes to indicate success: http.StatusOK
 BeginUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
 armhybridcompute.LicenseUpdate, options *armhybridcompute.LicensesClientBeginUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse], errResp azfake.ErrorResponder)

 // BeginValidateLicense is the fake for method LicensesClient.BeginValidateLicense
 // HTTP status codes to indicate success: http.StatusOK
 BeginValidateLicense func(ctx context.Context, parameters armhybridcompute.License, options
*armhybridcompute.LicensesClientBeginValidateLicenseOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse], errResp
azfake.ErrorResponder)
}

// NewLicensesServerTransport creates a new instance of LicensesServerTransport with the provided
implementation.
// The returned LicensesServerTransport instance is connected to an instance of armhybridcompute.LicensesClient
via the
// azcore.ClientOptions.Transporter field in the client's constructor parameters.
func NewLicensesServerTransport(srv *LicensesServer) *LicensesServerTransport
 {
 return &LicensesServerTransport{
  srv:                    srv,
  beginCreateOrUpdate:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]](),
  beginDelete:            newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]](),
  newListByResourceGroupPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]](),
  newListBySubscriptionPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]](),
  beginUpdate:            newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]](),
  beginValidateLicense:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]](),
 }
}

// LicensesServerTransport connects instances of armhybridcompute.LicensesClient to instances of LicensesServer.
// Don't use this type directly, use NewLicensesServerTransport
 instead.
type LicensesServerTransport struct {
 srv                    *LicensesServer
 beginCreateOrUpdate
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]]
 beginDelete            *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]]
 newListByResourceGroupPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]]
 newListBySubscriptionPager
```

```
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]]
 beginUpdate                *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]]
 beginValidateLicense
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]]
}

// Do implements the policy.Transporter interface for LicensesServerTransport.
func (l *LicensesServerTransport) Do(req *http.Request) (*http.Response, error) {
 rawMethod := req.Context().Value(runtime.CtxAPINameKey{})
 method,
 ok := rawMethod.(string)
 if !ok {
  return nil, nonRetriableError{errors.New("unable to dispatch request, missing value for CtxAPINameKey")}
 }

 var resp *http.Response
 var err error

 switch method {
 case "LicensesClient.BeginCreateOrUpdate":
  resp, err = l.dispatchBeginCreateOrUpdate(req)
 case "LicensesClient.BeginDelete":
  resp, err = l.dispatchBeginDelete(req)
 case "LicensesClient.Get":
  resp, err = l.dispatchGet(req)
 case "LicensesClient.NewListByResourceGroupPager":
  resp, err = l.dispatchNewListByResourceGroupPager(req)
 case "LicensesClient.NewListBySubscriptionPager":
  resp, err = l.dispatchNewListBySubscriptionPager(req)
 case "LicensesClient.BeginUpdate":
  resp, err = l.dispatchBeginUpdate(req)
 case "LicensesClient.BeginValidateLicense":
  resp, err = l.dispatchBeginValidateLicense(req)
 default:
  err = fmt.Errorf("unhandled API %s", method)
 }

 if err != nil {
  return nil, err
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginCreateOrUpdate(req
 *http.Request) (*http.Response, error) {
 if l.srv.BeginCreateOrUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginCreateOrUpdate not implemented")}
```

```
 }
 beginCreateOrUpdate := l.beginCreateOrUpdate.get(req)
 if beginCreateOrUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return
 nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginCreateOrUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body,
nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginCreateOrUpdate = &respr
  l.beginCreateOrUpdate.add(req, beginCreateOrUpdate)
 }

 resp, err := server.PollerResponderNext(beginCreateOrUpdate, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginCreateOrUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginCreateOrUpdate) {
  l.beginCreateOrUpdate.remove(req)
 }

 return resp, nil
```

```
}

func (l *LicensesServerTransport) dispatchBeginDelete(req *http.Request) (*http.Response, error) {
 if l.srv.BeginDelete
 == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginDelete not implemented")}
 }
 beginDelete := l.beginDelete.get(req)
 if beginDelete == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginDelete(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
  if
 respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginDelete = &respr
  l.beginDelete.add(req, beginDelete)
 }

 resp, err := server.PollerResponderNext(beginDelete, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK, http.StatusNoContent}, resp.StatusCode) {
  l.beginDelete.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK,
http.StatusNoContent", resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginDelete) {
  l.beginDelete.remove(req)
 }
```

```
 return resp, nil
}

func (l *LicensesServerTransport) dispatchGet(req *http.Request) (*http.Response, error) {
 if l.srv.Get == nil {
  return nil, &nonRetriableError{errors.New("fake for method Get not implemented")}
 }
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
 regex
 := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 3 {
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
  return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.Get(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 respContent := server.GetResponseContent(respr)
 if !contains([]int{http.StatusOK}, respContent.HTTPStatus) {
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
respContent.HTTPStatus)}
 }
 resp, err := server.MarshalResponseAsJSON(respContent,
 server.GetResponse(respr).License, req)
 if err != nil {
  return nil, err
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListByResourceGroupPager(req *http.Request) (*http.Response,
error) {
 if l.srv.NewListByResourceGroupPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListByResourceGroupPager not implemented")}
 }
 newListByResourceGroupPager := l.newListByResourceGroupPager.get(req)
 if newListByResourceGroupPager == nil {
```

```
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 2 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if
 err != nil {
   return nil, err
  }
  resp := l.srv.NewListByResourceGroupPager(resourceGroupNameParam, nil)
  newListByResourceGroupPager = &resp
  l.newListByResourceGroupPager.add(req, newListByResourceGroupPager)
  server.PagerResponderInjectNextLinks(newListByResourceGroupPager, req, func(page
*armhybridcompute.LicensesClientListByResourceGroupResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp, err := server.PagerResponderNext(newListByResourceGroupPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListByResourceGroupPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListByResourceGroupPager) {
  l.newListByResourceGroupPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListBySubscriptionPager(req *http.Request)
 (*http.Response, error) {
 if l.srv.NewListBySubscriptionPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListBySubscriptionPager not implemented")}
 }
 newListBySubscriptionPager := l.newListBySubscriptionPager.get(req)
 if newListBySubscriptionPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 1 {
```

```
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resp := l.srv.NewListBySubscriptionPager(nil)
 newListBySubscriptionPager = &resp
 l.newListBySubscriptionPager.add(req, newListBySubscriptionPager)
 server.PagerResponderInjectNextLinks(newListBySubscriptionPager, req, func(page
*armhybridcompute.LicensesClientListBySubscriptionResponse, createLink func() string) {
  page.NextLink = to.Ptr(createLink())
 })
 }
 resp,
 err := server.PagerResponderNext(newListBySubscriptionPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListBySubscriptionPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListBySubscriptionPager) {
  l.newListBySubscriptionPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginUpdate(req *http.Request) (*http.Response, error) {
 if l.srv.BeginUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginUpdate not implemented")}
 }
 beginUpdate := l.beginUpdate.get(req)
 if beginUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex
 := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.LicenseUpdate](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
```

```
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.BeginUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 beginUpdate = &respr
 l.beginUpdate.add(req, beginUpdate)
}

resp, err := server.PollerResponderNext(beginUpdate, req)
if err != nil {
 return nil, err
}

if !contains([]int{http.StatusOK},
resp.StatusCode) {
 l.beginUpdate.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}
if !server.PollerResponderMore(beginUpdate) {
 l.beginUpdate.remove(req)
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginValidateLicense(req *http.Request) (*http.Response, error) {
 if l.srv.BeginValidateLicense == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginValidateLicense not implemented")}
 }
 beginValidateLicense := l.beginValidateLicense.get(req)
 if beginValidateLicense == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/validateLicense`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 1 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body,
 err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
  if err != nil {
   return nil, err
```

```
  }
  respr, errRespr := l.srv.BeginValidateLicense(req.Context(), body, nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginValidateLicense = &respr
  l.beginValidateLicense.add(req, beginValidateLicense)
 }

 resp, err := server.PollerResponderNext(beginValidateLicense, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginValidateLicense.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginValidateLicense) {
  l.beginValidateLicense.remove(req)
 }

 return resp, nil
}
//go:build go1.18
// +build go1.18

// Copyright (c) Microsoft Corporation. All rights reserved.
// Licensed under the MIT License. See License.txt in the project root for license information.
// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package armhybridcompute

import (
 "context"
 "errors"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/arm"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/policy"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "net/http"
 "net/url"
 "strings"
)

// LicensesClient contains the methods for the Licenses group.
```

```
// Don't use this type directly, use NewLicensesClient() instead.
type LicensesClient struct {
 internal       *arm.Client
 subscriptionID string
}

// NewLicensesClient creates a new instance of LicensesClient with the specified values.
//   - subscriptionID - The ID of the target
 subscription.
//   - credential - used to authorize requests. Usually a credential from azidentity.
//   - options - pass nil to accept the default values.
func NewLicensesClient(subscriptionID string, credential azcore.TokenCredential, options *arm.ClientOptions)
(*LicensesClient, error) {
 cl, err := arm.NewClient(moduleName, moduleVersion, credential, options)
 if err != nil {
  return nil, err
 }
 client := &LicensesClient{
  subscriptionID: subscriptionID,
  internal:       cl,
 }
 return client, nil
}

// BeginCreateOrUpdate - The operation to create or update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - parameters - Parameters supplied to the Create license operation.
//   - options - LicensesClientBeginCreateOrUpdateOptions contains the optional parameters
 for the LicensesClient.BeginCreateOrUpdate
//     method.
func (client *LicensesClient) BeginCreateOrUpdate(ctx context.Context, resourceGroupName string, licenseName
string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions)
(*runtime.Poller[LicensesClientCreateOrUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.createOrUpdate(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
```

```
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// CreateOrUpdate - The operation to create or update a license.
// If the
 operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) createOrUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginCreateOrUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.createOrUpdateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// createOrUpdateCreateRequest creates
 the CreateOrUpdate request.
func (client *LicensesClient) createOrUpdateCreateRequest(ctx context.Context, resourceGroupName string,
licenseName string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*policy.Request,
error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
```

```
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx,
 http.MethodPut, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginDelete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientBeginDeleteOptions contains the optional parameters for the
LicensesClient.BeginDelete method.
func (client *LicensesClient) BeginDelete(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*runtime.Poller[LicensesClientDeleteResponse],
 error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.deleteOperation(ctx, resourceGroupName, licenseName, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
```

```
}

// Delete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) deleteOperation(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*http.Response, error) {
 var err error
 const
 operationName = "LicensesClient.BeginDelete"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.deleteCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK, http.StatusNoContent) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// deleteCreateRequest creates the Delete request.
func (client *LicensesClient) deleteCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientBeginDeleteOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
```

```
 req, err := runtime.NewRequest(ctx, http.MethodDelete, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// Get - Retrieves information about the view of a license.
//
 If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientGetOptions contains the optional parameters for the LicensesClient.Get method.
func (client *LicensesClient) Get(ctx context.Context, resourceGroupName string, licenseName string, options
*LicensesClientGetOptions) (LicensesClientGetResponse, error) {
 var err error
 const operationName = "LicensesClient.Get"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.getCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return LicensesClientGetResponse{}, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil
 {
  return LicensesClientGetResponse{}, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return LicensesClientGetResponse{}, err
 }
 resp, err := client.getHandleResponse(httpResp)
 return resp, err
}

// getCreateRequest creates the Get request.
func (client *LicensesClient) getCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientGetOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
```

```
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
 licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// getHandleResponse handles the Get response.
func (client *LicensesClient) getHandleResponse(resp *http.Response) (LicensesClientGetResponse, error) {
 result := LicensesClientGetResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.License); err != nil {
  return LicensesClientGetResponse{}, err
 }
 return result, nil
}

// NewListByResourceGroupPager - The operation to get all licenses of a non-Azure machine
//
// Generated from
 API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - options - LicensesClientListByResourceGroupOptions contains the optional parameters for the
LicensesClient.NewListByResourceGroupPager
//     method.
func (client *LicensesClient) NewListByResourceGroupPager(resourceGroupName string, options
*LicensesClientListByResourceGroupOptions) *runtime.Pager[LicensesClientListByResourceGroupResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListByResourceGroupResponse]{
  More: func(page LicensesClientListByResourceGroupResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
```

```
  Fetcher: func(ctx context.Context, page *LicensesClientListByResourceGroupResponse)
(LicensesClientListByResourceGroupResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListByResourceGroupPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp,
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listByResourceGroupCreateRequest(ctx, resourceGroupName, options)
   }, nil)
   if err != nil {
    return LicensesClientListByResourceGroupResponse{}, err
   }
   return client.listByResourceGroupHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listByResourceGroupCreateRequest creates the ListByResourceGroup request.
func (client *LicensesClient) listByResourceGroupCreateRequest(ctx context.Context, resourceGroupName string,
options *LicensesClientListByResourceGroupOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es"
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listByResourceGroupHandleResponse handles the ListByResourceGroup response.
```

```
func (client *LicensesClient) listByResourceGroupHandleResponse(resp *http.Response)
(LicensesClientListByResourceGroupResponse, error) {
 result := LicensesClientListByResourceGroupResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListByResourceGroupResponse{}, err
 }
 return
 result, nil
}

// NewListBySubscriptionPager - The operation to get all licenses of a non-Azure machine
//
// Generated from API version 2023-06-20-preview
//   - options - LicensesClientListBySubscriptionOptions contains the optional parameters for the
LicensesClient.NewListBySubscriptionPager
//     method.
func (client *LicensesClient) NewListBySubscriptionPager(options *LicensesClientListBySubscriptionOptions)
*runtime.Pager[LicensesClientListBySubscriptionResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListBySubscriptionResponse]{
  More: func(page LicensesClientListBySubscriptionResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListBySubscriptionResponse)
(LicensesClientListBySubscriptionResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListBySubscriptionPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp,
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listBySubscriptionCreateRequest(ctx, options)
   }, nil)
   if err != nil {
    return LicensesClientListBySubscriptionResponse{}, err
   }
   return client.listBySubscriptionHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listBySubscriptionCreateRequest creates the ListBySubscription request.
func (client *LicensesClient) listBySubscriptionCreateRequest(ctx context.Context, options
*LicensesClientListBySubscriptionOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/licenses"
 if client.subscriptionID == "" {
```

```
 return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet,
 runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listBySubscriptionHandleResponse handles the ListBySubscription response.
func (client *LicensesClient) listBySubscriptionHandleResponse(resp *http.Response)
(LicensesClientListBySubscriptionResponse, error) {
 result := LicensesClientListBySubscriptionResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListBySubscriptionResponse{}, err
 }
 return result, nil
}

// BeginUpdate - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName
 - The name of the license.
//   - parameters - Parameters supplied to the Update license operation.
//   - options - LicensesClientBeginUpdateOptions contains the optional parameters for the
LicensesClient.BeginUpdate method.
func (client *LicensesClient) BeginUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions)
(*runtime.Poller[LicensesClientUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.update(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
```

```
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientUpdateResponse]{
   Tracer:
 client.internal.Tracer(),
  })
 }
}

// Update - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) update(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.updateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return
 nil, err
 }
 return httpResp, nil
}

// updateCreateRequest creates the Update request.
func (client *LicensesClient) updateCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
```

```
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}",
 url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodPatch, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - parameters - Parameters supplied to the license validation operation.
//   - options - LicensesClientBeginValidateLicenseOptions contains the optional parameters for the
LicensesClient.BeginValidateLicense
//     method.
func (client *LicensesClient) BeginValidateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions)
 (*runtime.Poller[LicensesClientValidateLicenseResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.validateLicense(ctx, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientValidateLicenseResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientValidateLicenseResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
```

```
}

// ValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) validateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions)
 (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginValidateLicense"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.validateLicenseCreateRequest(ctx, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// validateLicenseCreateRequest creates the ValidateLicense request.
func (client *LicensesClient) validateLicenseCreateRequest(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/validateLicense"
 if client.subscriptionID
 == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodPost, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
```

```
 }
 return req, nil
}
```

azwebpubsub

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```
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// +build go1.18

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// DO NOT EDIT.

package armhybridcompute_test

import (
 "context"
 "log"

 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/azidentity"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
)

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_ValidateLicense.json
func ExampleLicensesClient_BeginValidateLicense() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err !=
 nil {
  log.Fatalf("failed to obtain a credential: %v", err)
```

```
}
ctx := context.Background()
clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
if err != nil {
 log.Fatalf("failed to create client: %v", err)
}
poller, err := clientFactory.NewLicensesClient().BeginValidateLicense(ctx, armhybridcompute.License{
 Location: to.Ptr("eastus2euap"),
 Properties: &armhybridcompute.LicenseProperties{
  LicenseDetails: &armhybridcompute.LicenseDetails{
   Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
   Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
   Processors: to.Ptr[int32](6),
   State:      to.Ptr(armhybridcompute.LicenseStateActivated),
   Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
  },
  LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 },
}, nil)
if err != nil {
 log.Fatalf("failed to finish the request: %v", err)
}
res, err := poller.PollUntilDone(ctx, nil)
if err !=
nil {
 log.Fatalf("failed to pull the result: %v", err)
}
// You could use response here. We use blank identifier for just demo purposes.
_ = res
// If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
// res.License = armhybridcompute.License{
//  Name: to.Ptr("{licenseName}"),
//  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
//  ID: to.Ptr("/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/Licenses/{licenseName}"),
//  Location: to.Ptr("eastus2euap"),
//  Properties: &armhybridcompute.LicenseProperties{
//   LicenseDetails: &armhybridcompute.LicenseDetails{
//    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
//    AssignedLicenses: to.Ptr[int32](2),
//    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//    ImmutableID: to.Ptr("<generated Guid>"),
//    Processors: to.Ptr[int32](6),
//
   State: to.Ptr(armhybridcompute.LicenseStateActivated),
//    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//   },
//   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
```

```
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_CreateOrUpdate.json
func ExampleLicensesClient_BeginCreateOrUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginCreateOrUpdate(ctx, "myResourceGroup",
 "{licenseName}", armhybridcompute.License{
  Location: to.Ptr("eastus2euap"),
  Properties: &armhybridcompute.LicenseProperties{
   LicenseDetails: &armhybridcompute.LicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values
 in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
```

```
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Licenses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](2),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated
 from example definition: https://github.com/Azure/azure-rest-api-specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_Update.json
func ExampleLicensesClient_BeginUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginUpdate(ctx, "myResourceGroup", "{licenseName}", armhybridcompute.LicenseUpdate{
  Properties: &armhybridcompute.LicenseUpdateProperties{
   LicenseDetails: &armhybridcompute.LicenseUpdatePropertiesLicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors:
 to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
```

```
 log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/lice
nses/{licenseName}"),
 //
  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_Get.json
func ExampleLicensesClient_Get() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if
 err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
```

```
 res, err := clientFactory.NewLicensesClient().Get(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //
  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_Delete.json
func ExampleLicensesClient_BeginDelete()
 {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginDelete(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
```

```
  log.Fatalf("failed to finish the request: %v", err)
 }
 _, err = poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-
preview/examples/license/License_ListByResourceGroup.json
func ExampleLicensesClient_NewListByResourceGroupPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if
 err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListByResourceGroupPager("myResourceGroup", nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
   // You could use page here. We use blank identifier for just demo purposes.
   _ = v
  }
  // If the HTTP response code is 200 as defined in example definition, your page structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
  // page.LicensesListResult = armhybridcompute.LicensesListResult{
  //  Value: []*armhybridcompute.License{
  //   {
  //    Name: to.Ptr("{licenseName}"),
  //
   Type: to.Ptr("Microsoft.HybridCompute/licenses"),
  //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
  //    Location: to.Ptr("eastus2euap"),
  //    Properties: &armhybridcompute.LicenseProperties{
  //     LicenseDetails: &armhybridcompute.LicenseDetails{
  //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
```

```
 //      AssignedLicenses: to.Ptr[int32](8),
 //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //      ImmutableID: to.Ptr("<generated Guid>"),
 //      Processors: to.Ptr[int32](6),
 //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //     },
 //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //     TenantID: to.Ptr("{tenandId}"),
 //    },
 //  }},
 // }
 }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-
preview/examples/license/License_ListBySubscription.json
func
 ExampleLicensesClient_NewListBySubscriptionPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListBySubscriptionPager(nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
   // You could use page here. We use blank identifier for just demo purposes.
   _ = v
  }
  // If the HTTP response code is 200 as defined in example definition, your page structure would look as
 follows. Please pay attention that all the values in the output are fake values for just demo purposes.
  // page.LicensesListResult = armhybridcompute.LicensesListResult{
  //  Value: []*armhybridcompute.License{
  //   {
  //    Name: to.Ptr("{licenseName}"),
  //    Type: to.Ptr("Microsoft.HybridCompute/licenses"),
  //    ID:
```

```
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Licenses/{licenseName}"),
 //    Location: to.Ptr("eastus2euap"),
 //    Properties: &armhybridcompute.LicenseProperties{
 //     LicenseDetails: &armhybridcompute.LicenseDetails{
 //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //      AssignedLicenses: to.Ptr[int32](8),
 //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //      ImmutableID: to.Ptr("<generated Guid>"),
 //      Processors: to.Ptr[int32](6),
 //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //
    },
 //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //     TenantID: to.Ptr("{tenandId}"),
 //    },
 //  }},
 // }
 }
}
```

1.5371 azure-sdk-for-go-sdk-azidentity v1.8.0

1.5371.1 Available under license :

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```
{
 "main": "dist/src/index.js",
 "dependencies": {
   "@azure-tools/typespec-go": "0.3.0"
 },
 "devDependencies": {
   "@azure-tools/typespec-autorest": "0.44.1",
   "@azure-tools/typespec-azure-core": "0.44.0",
   "@azure-tools/typespec-azure-resource-manager": "0.44.0",
   "@azure-tools/typespec-azure-rulesets": "0.44.0",
   "@azure-tools/typespec-client-generator-core": "0.44.3",
   "@typespec/compiler": "0.58.1",
   "@typespec/http": "0.58.0",
   "@typespec/openapi": "0.58.0",
   "@typespec/rest": "0.58.0",
   "@typespec/versioning": "0.58.0"
 }
}
```


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//go:build go1.18
// +build go1.18

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// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

```
package fake

import (
 "context"
 "errors"
 "fmt"
 azfake "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake/server"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
 "net/http"
 "net/url"
 "regexp"
)

// LicensesServer is a fake server for instances of the armhybridcompute.LicensesClient type.
type LicensesServer struct {
 // BeginCreateOrUpdate is the fake for method LicensesClient.BeginCreateOrUpdate
 // HTTP status codes to indicate success:
 http.StatusOK
 BeginCreateOrUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
armhybridcompute.License, options *armhybridcompute.LicensesClientBeginCreateOrUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse], errResp
azfake.ErrorResponder)

 // BeginDelete is the fake for method LicensesClient.BeginDelete
 // HTTP status codes to indicate success: http.StatusOK, http.StatusNoContent
 BeginDelete func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientBeginDeleteOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse], errResp azfake.ErrorResponder)

 // Get is the fake for method LicensesClient.Get
 // HTTP status codes to indicate success: http.StatusOK
 Get func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientGetOptions) (resp
azfake.Responder[armhybridcompute.LicensesClientGetResponse],
 errResp azfake.ErrorResponder)

 // NewListByResourceGroupPager is the fake for method LicensesClient.NewListByResourceGroupPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListByResourceGroupPager func(resourceGroupName string, options
*armhybridcompute.LicensesClientListByResourceGroupOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse])

 // NewListBySubscriptionPager is the fake for method LicensesClient.NewListBySubscriptionPager
 // HTTP status codes to indicate success: http.StatusOK
```

```
 NewListBySubscriptionPager func(options *armhybridcompute.LicensesClientListBySubscriptionOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse])

 // BeginUpdate is the fake for method LicensesClient.BeginUpdate
 // HTTP status codes to indicate success: http.StatusOK
 BeginUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
 armhybridcompute.LicenseUpdate, options *armhybridcompute.LicensesClientBeginUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse], errResp azfake.ErrorResponder)
}

// NewLicensesServerTransport creates a new instance of LicensesServerTransport with the provided
implementation.
// The returned LicensesServerTransport instance is connected to an instance of armhybridcompute.LicensesClient
via the
// azcore.ClientOptions.Transporter field in the client's constructor parameters.
func NewLicensesServerTransport(srv *LicensesServer) *LicensesServerTransport {
 return &LicensesServerTransport{
  srv:                      srv,
  beginCreateOrUpdate:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]](),
  beginDelete:                 newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]](),
  newListByResourceGroupPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]](),
  newListBySubscriptionPager:
  newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]](),
  beginUpdate:                 newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]](),
 }
}

// LicensesServerTransport connects instances of armhybridcompute.LicensesClient to instances of LicensesServer.
// Don't use this type directly, use NewLicensesServerTransport instead.
type LicensesServerTransport struct {
 srv                      *LicensesServer
 beginCreateOrUpdate
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]]
 beginDelete                 *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]]
 newListByResourceGroupPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]]
 newListBySubscriptionPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]]
 beginUpdate
                 *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]]
}

// Do implements the policy.Transporter interface for LicensesServerTransport.
func (l *LicensesServerTransport) Do(req *http.Request) (*http.Response, error) {
 rawMethod := req.Context().Value(runtime.CtxAPINameKey{})
 method, ok := rawMethod.(string)
```

```
 if !ok {
  return nil, nonRetriableError{errors.New("unable to dispatch request, missing value for CtxAPINameKey")}
 }

 var resp *http.Response
 var err error

 switch method {
 case "LicensesClient.BeginCreateOrUpdate":
  resp, err = l.dispatchBeginCreateOrUpdate(req)
 case "LicensesClient.BeginDelete":
  resp, err = l.dispatchBeginDelete(req)
 case "LicensesClient.Get":
  resp, err = l.dispatchGet(req)
 case "LicensesClient.NewListByResourceGroupPager":
  resp, err = l.dispatchNewListByResourceGroupPager(req)
 case "LicensesClient.NewListBySubscriptionPager":
  resp, err = l.dispatchNewListBySubscriptionPager(req)
 case
 "LicensesClient.BeginUpdate":
  resp, err = l.dispatchBeginUpdate(req)
 default:
  err = fmt.Errorf("unhandled API %s", method)
 }

 if err != nil {
  return nil, err
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginCreateOrUpdate(req *http.Request) (*http.Response, error) {
 if l.srv.BeginCreateOrUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginCreateOrUpdate not implemented")}
 }
 beginCreateOrUpdate := l.beginCreateOrUpdate.get(req)
 if beginCreateOrUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body,
```

```
 err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginCreateOrUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body,
nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginCreateOrUpdate = &respr
  l.beginCreateOrUpdate.add(req, beginCreateOrUpdate)
 }

 resp, err := server.PollerResponderNext(beginCreateOrUpdate, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginCreateOrUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if
 !server.PollerResponderMore(beginCreateOrUpdate) {
  l.beginCreateOrUpdate.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginDelete(req *http.Request) (*http.Response, error) {
 if l.srv.BeginDelete == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginDelete not implemented")}
 }
 beginDelete := l.beginDelete.get(req)
 if beginDelete == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
```

```
 regex := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 3 {
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
  return
nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.BeginDelete(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 beginDelete = &respr
 l.beginDelete.add(req, beginDelete)
}

resp, err := server.PollerResponderNext(beginDelete, req)
if err != nil {
 return nil, err
}

if !contains([]int{http.StatusOK, http.StatusNoContent}, resp.StatusCode) {
 l.beginDelete.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK,
http.StatusNoContent", resp.StatusCode)}
}
if !server.PollerResponderMore(beginDelete) {
 l.beginDelete.remove(req)
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchGet(req *http.Request) (*http.Response, error) {
 if l.srv.Get == nil {
  return nil, &nonRetriableError{errors.New("fake
 for method Get not implemented")}
 }
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
 regex := regexp.MustCompile(regexStr)
```

```
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 3 {
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
  return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.Get(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 respContent := server.GetResponseContent(respr)
 if
 !contains([]int{http.StatusOK}, respContent.HTTPStatus) {
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
respContent.HTTPStatus)}
 }
 resp, err := server.MarshalResponseAsJSON(respContent, server.GetResponse(respr).License, req)
 if err != nil {
  return nil, err
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListByResourceGroupPager(req *http.Request) (*http.Response,
error) {
 if l.srv.NewListByResourceGroupPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListByResourceGroupPager not implemented")}
 }
 newListByResourceGroupPager := l.newListByResourceGroupPager.get(req)
 if newListByResourceGroupPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches :=
 regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 2 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
```

```
  }
  resp := l.srv.NewListByResourceGroupPager(resourceGroupNameParam, nil)
  newListByResourceGroupPager = &resp
  l.newListByResourceGroupPager.add(req, newListByResourceGroupPager)
  server.PagerResponderInjectNextLinks(newListByResourceGroupPager, req, func(page
*armhybridcompute.LicensesClientListByResourceGroupResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp, err := server.PagerResponderNext(newListByResourceGroupPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListByResourceGroupPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values
 are http.StatusOK", resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListByResourceGroupPager) {
  l.newListByResourceGroupPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListBySubscriptionPager(req *http.Request) (*http.Response, error)
{
 if l.srv.NewListBySubscriptionPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListBySubscriptionPager not implemented")}
 }
 newListBySubscriptionPager := l.newListBySubscriptionPager.get(req)
 if newListBySubscriptionPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 1 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resp := l.srv.NewListBySubscriptionPager(nil)
  newListBySubscriptionPager = &resp
  l.newListBySubscriptionPager.add(req,
 newListBySubscriptionPager)
  server.PagerResponderInjectNextLinks(newListBySubscriptionPager, req, func(page
*armhybridcompute.LicensesClientListBySubscriptionResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp, err := server.PagerResponderNext(newListBySubscriptionPager, req)
```

```
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListBySubscriptionPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListBySubscriptionPager) {
  l.newListBySubscriptionPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginUpdate(req *http.Request) (*http.Response, error) {
 if l.srv.BeginUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginUpdate not implemented")}
 }
 beginUpdate := l.beginUpdate.get(req)
 if
 beginUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.LicenseUpdate](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body, nil)
  if respErr := server.GetError(errRespr,
 req); respErr != nil {
   return nil, respErr
  }
  beginUpdate = &respr
  l.beginUpdate.add(req, beginUpdate)
```

```
 }

 resp, err := server.PollerResponderNext(beginUpdate, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginUpdate) {
  l.beginUpdate.remove(req)
 }

 return resp, nil
}
//go:build go1.18
// +build go1.18

// Copyright (c) Microsoft Corporation. All rights reserved.
// Licensed under the MIT License. See License.txt in the project root for license information.
// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package armhybridcompute

import (
 "context"
 "errors"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/arm"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/policy"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "net/http"
 "net/url"
 "strings"
)

// LicensesClient contains the methods for the Licenses group.
// Don't use this type directly, use NewLicensesClient() instead.
type LicensesClient struct {
 internal       *arm.Client
 subscriptionID string
}

// NewLicensesClient creates a new instance of LicensesClient with the specified values.
```

```
//   - subscriptionID - The ID of the target
 subscription.
//   - credential - used to authorize requests. Usually a credential from azidentity.
//   - options - pass nil to accept the default values.
func NewLicensesClient(subscriptionID string, credential azcore.TokenCredential, options *arm.ClientOptions)
(*LicensesClient, error) {
 cl, err := arm.NewClient(moduleName, moduleVersion, credential, options)
 if err != nil {
  return nil, err
 }
 client := &LicensesClient{
  subscriptionID: subscriptionID,
  internal:       cl,
 }
 return client, nil
}

// BeginCreateOrUpdate - The operation to create or update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-05-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - parameters - Parameters supplied to the Create license operation.
//   - options - LicensesClientBeginCreateOrUpdateOptions contains the optional parameters
 for the LicensesClient.BeginCreateOrUpdate
//     method.
func (client *LicensesClient) BeginCreateOrUpdate(ctx context.Context, resourceGroupName string, licenseName
string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions)
(*runtime.Poller[LicensesClientCreateOrUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.createOrUpdate(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}
```

```
// CreateOrUpdate - The operation to create or update a license.
// If the
 operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-05-20-preview
func (client *LicensesClient) createOrUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginCreateOrUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.createOrUpdateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// createOrUpdateCreateRequest creates
 the CreateOrUpdate request.
func (client *LicensesClient) createOrUpdateCreateRequest(ctx context.Context, resourceGroupName string,
licenseName string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*policy.Request,
error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx,
```

```
 http.MethodPut, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-05-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginDelete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-05-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientBeginDeleteOptions contains the optional parameters for the
LicensesClient.BeginDelete method.
func (client *LicensesClient) BeginDelete(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*runtime.Poller[LicensesClientDeleteResponse],
 error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.deleteOperation(ctx, resourceGroupName, licenseName, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// Delete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-05-20-preview
func (client *LicensesClient) deleteOperation(ctx context.Context, resourceGroupName string, licenseName string,
```

```
options *LicensesClientBeginDeleteOptions) (*http.Response, error) {
 var err error
 const
 operationName = "LicensesClient.BeginDelete"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.deleteCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK, http.StatusNoContent) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// deleteCreateRequest creates the Delete request.
func (client *LicensesClient) deleteCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientBeginDeleteOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodDelete, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-05-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
```

```
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// Get - Retrieves information about the view of a license.
//
 If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-05-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientGetOptions contains the optional parameters for the LicensesClient.Get method.
func (client *LicensesClient) Get(ctx context.Context, resourceGroupName string, licenseName string, options
*LicensesClientGetOptions) (LicensesClientGetResponse, error) {
 var err error
 const operationName = "LicensesClient.Get"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.getCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return LicensesClientGetResponse{}, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil
 {
  return LicensesClientGetResponse{}, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return LicensesClientGetResponse{}, err
 }
 resp, err := client.getHandleResponse(httpResp)
 return resp, err
}

// getCreateRequest creates the Get request.
func (client *LicensesClient) getCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientGetOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
```

```
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
 licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-05-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// getHandleResponse handles the Get response.
func (client *LicensesClient) getHandleResponse(resp *http.Response) (LicensesClientGetResponse, error) {
 result := LicensesClientGetResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.License); err != nil {
  return LicensesClientGetResponse{}, err
 }
 return result, nil
}

// NewListByResourceGroupPager - The operation to get all licenses of a non-Azure machine
//
// Generated from
 API version 2024-05-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - options - LicensesClientListByResourceGroupOptions contains the optional parameters for the
LicensesClient.NewListByResourceGroupPager
//     method.
func (client *LicensesClient) NewListByResourceGroupPager(resourceGroupName string, options
*LicensesClientListByResourceGroupOptions) *runtime.Pager[LicensesClientListByResourceGroupResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListByResourceGroupResponse]{
  More: func(page LicensesClientListByResourceGroupResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListByResourceGroupResponse)
(LicensesClientListByResourceGroupResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListByResourceGroupPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
```

```
  resp,
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
   return client.listByResourceGroupCreateRequest(ctx, resourceGroupName, options)
  }, nil)
  if err != nil {
   return LicensesClientListByResourceGroupResponse{}, err
  }
  return client.listByResourceGroupHandleResponse(resp)
 },
 Tracer: client.internal.Tracer(),
})
}

// listByResourceGroupCreateRequest creates the ListByResourceGroup request.
func (client *LicensesClient) listByResourceGroupCreateRequest(ctx context.Context, resourceGroupName string,
options *LicensesClientListByResourceGroupOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es"
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-05-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listByResourceGroupHandleResponse handles the ListByResourceGroup response.
func (client *LicensesClient) listByResourceGroupHandleResponse(resp *http.Response)
(LicensesClientListByResourceGroupResponse, error) {
 result := LicensesClientListByResourceGroupResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListByResourceGroupResponse{}, err
 }
 return
```

```
 result, nil
}

// NewListBySubscriptionPager - The operation to get all licenses of a non-Azure machine
//
// Generated from API version 2024-05-20-preview
//   - options - LicensesClientListBySubscriptionOptions contains the optional parameters for the
LicensesClient.NewListBySubscriptionPager
//     method.
func (client *LicensesClient) NewListBySubscriptionPager(options *LicensesClientListBySubscriptionOptions)
*runtime.Pager[LicensesClientListBySubscriptionResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListBySubscriptionResponse]{
  More: func(page LicensesClientListBySubscriptionResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListBySubscriptionResponse)
(LicensesClientListBySubscriptionResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListBySubscriptionPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp,
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listBySubscriptionCreateRequest(ctx, options)
   }, nil)
   if err != nil {
    return LicensesClientListBySubscriptionResponse{}, err
   }
   return client.listBySubscriptionHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listBySubscriptionCreateRequest creates the ListBySubscription request.
func (client *LicensesClient) listBySubscriptionCreateRequest(ctx context.Context, options
*LicensesClientListBySubscriptionOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/licenses"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet,
 runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
```

```
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-05-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listBySubscriptionHandleResponse handles the ListBySubscription response.
func (client *LicensesClient) listBySubscriptionHandleResponse(resp *http.Response)
(LicensesClientListBySubscriptionResponse, error) {
 result := LicensesClientListBySubscriptionResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListBySubscriptionResponse{}, err
 }
 return result, nil
}

// BeginUpdate - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-05-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName
 - The name of the license.
//   - parameters - Parameters supplied to the Update license operation.
//   - options - LicensesClientBeginUpdateOptions contains the optional parameters for the
LicensesClient.BeginUpdate method.
func (client *LicensesClient) BeginUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions)
(*runtime.Poller[LicensesClientUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.update(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientUpdateResponse]{
   Tracer:
 client.internal.Tracer(),
  })
 }
```

```
}

// Update - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-05-20-preview
func (client *LicensesClient) update(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.updateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return
 nil, err
 }
 return httpResp, nil
}

// updateCreateRequest creates the Update request.
func (client *LicensesClient) updateCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}",
```

```
 url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodPatch, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-05-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}
```

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```
//go:build go1.18
// +build go1.18

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// Code generated by Microsoft (R) AutoRest Code Generator.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.
// DO NOT EDIT.

package armhybridcompute_test

import (
 "context"
 "log"

 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/azidentity"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
)

// Generated from example definition: https://github.com/Azure/azure-rest-api-specs/blob/b574e2a41acda14a90ef237006e8bbdda2b63c63/specification/hybridcompute/resource-manager/Microsoft.HybridCompute/preview/2024-05-20-preview/examples/license/License_CreateOrUpdate.json
func ExampleLicensesClient_BeginCreateOrUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil
 {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginCreateOrUpdate(ctx, "myResourceGroup", "{licenseName}", armhybridcompute.License{
  Location: to.Ptr("eastus2euap"),
  Properties: &armhybridcompute.LicenseProperties{
   LicenseDetails: &armhybridcompute.LicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
```

```
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx,
 nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](2),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID:
 to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/b574e2a41acda14a90ef237006e8bbdda2b63c63/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-05-20-preview/examples/license/License_Update.json
func ExampleLicensesClient_BeginUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
```

```
 log.Fatalf("failed to obtain a credential: %v", err)
}
ctx := context.Background()
clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
if err != nil {
 log.Fatalf("failed to create client: %v", err)
}
poller, err := clientFactory.NewLicensesClient().BeginUpdate(ctx,
"myResourceGroup", "{licenseName}", armhybridcompute.LicenseUpdate{
 Properties: &armhybridcompute.LicenseUpdateProperties{
  LicenseDetails: &armhybridcompute.LicenseUpdatePropertiesLicenseDetails{
   Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
   Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
   Processors: to.Ptr[int32](6),
   State:      to.Ptr(armhybridcompute.LicenseStateActivated),
   Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
  },
  LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 },
}, nil)
if err != nil {
 log.Fatalf("failed to finish the request: %v", err)
}
res, err := poller.PollUntilDone(ctx, nil)
if err != nil {
 log.Fatalf("failed to pull the result: %v", err)
}
// You could use response here. We use blank identifier for just demo purposes.
_ = res
// If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please
pay attention that all the values in the output are fake values for just demo purposes.
// res.License = armhybridcompute.License{
//  Name: to.Ptr("{licenseName}"),
//  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
//  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/lice
nses/{licenseName}"),
//  Location: to.Ptr("eastus2euap"),
//  Properties: &armhybridcompute.LicenseProperties{
//   LicenseDetails: &armhybridcompute.LicenseDetails{
//    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
//    AssignedLicenses: to.Ptr[int32](8),
//    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//    ImmutableID: to.Ptr("<generated Guid>"),
//    Processors: to.Ptr[int32](6),
//    State: to.Ptr(armhybridcompute.LicenseStateActivated),
//    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
```

```
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //
  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/b574e2a41acda14a90ef237006e8bbdda2b63c63/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-05-20-preview/examples/license/License_Get.json
func ExampleLicensesClient_Get() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 res, err := clientFactory.NewLicensesClient().Get(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would
 look as follows. Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //
```

```
   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/b574e2a41acda14a90ef237006e8bbdda2b63c63/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-05-20-preview/examples/license/License_Delete.json
func ExampleLicensesClient_BeginDelete() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginDelete(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 _, err = poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
}

// Generated from example
 definition: https://github.com/Azure/azure-rest-api-
specs/blob/b574e2a41acda14a90ef237006e8bbdda2b63c63/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-05-20-
preview/examples/license/License_ListByResourceGroup.json
func ExampleLicensesClient_NewListByResourceGroupPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListByResourceGroupPager("myResourceGroup", nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
```

```
 }
 for _, v := range page.Value {
  // You could use page here. We use blank identifier for just demo purposes.
  _ = v
 }
 // If the HTTP response
 code is 200 as defined in example definition, your page structure would look as follows. Please pay attention that all
the values in the output are fake values for just demo purposes.
 // page.LicensesListResult = armhybridcompute.LicensesListResult{
 //  Value: []*armhybridcompute.License{
 //   {
 //    Name: to.Ptr("{licenseName}"),
 //    Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //    Location: to.Ptr("eastus2euap"),
 //    Properties: &armhybridcompute.LicenseProperties{
 //     LicenseDetails: &armhybridcompute.LicenseDetails{
 //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //      AssignedLicenses: to.Ptr[int32](8),
 //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //      ImmutableID: to.Ptr("<generated Guid>"),
 //      Processors: to.Ptr[int32](6),
 //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //
     Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //     },
 //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //     TenantID: to.Ptr("{tenandId}"),
 //    },
 //  }},
 // }
 }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/b574e2a41acda14a90ef237006e8bbdda2b63c63/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-05-20-
preview/examples/license/License_ListBySubscription.json
func ExampleLicensesClient_NewListBySubscriptionPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
```

```
 log.Fatalf("failed to create client: %v", err)
}
pager := clientFactory.NewLicensesClient().NewListBySubscriptionPager(nil)
for pager.More()
{
 page, err := pager.NextPage(ctx)
 if err != nil {
  log.Fatalf("failed to advance page: %v", err)
 }
 for _, v := range page.Value {
  // You could use page here. We use blank identifier for just demo purposes.
  _ = v
 }
 // If the HTTP response code is 200 as defined in example definition, your page structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // page.LicensesListResult = armhybridcompute.LicensesListResult{
 //  Value: []*armhybridcompute.License{
 //   {
 //    Name: to.Ptr("{licenseName}"),
 //    Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //    Location: to.Ptr("eastus2euap"),
 //    Properties: &armhybridcompute.LicenseProperties{
 //     LicenseDetails: &armhybridcompute.LicenseDetails{
 //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //
     AssignedLicenses: to.Ptr[int32](8),
 //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //      ImmutableID: to.Ptr("<generated Guid>"),
 //      Processors: to.Ptr[int32](6),
 //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //     },
 //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //     TenantID: to.Ptr("{tenandId}"),
 //    },
 //  }},
 // }
}
}
```

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is preserved.
A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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This software package is based on the paper
I. Bogaert, "Iteration-Free Computation of Gauss-Legendre Quadrature Nodes and Weights",
to be published in the SIAM Journal of Scientific Computing.

The main features of this software are:
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A C-program for MT19937-64 (2004/9/29 version).
Coded by Takuji Nishimura and Makoto Matsumoto.

This is a 64-bit version of Mersenne Twister pseudorandom number generator.

Before using, initialize the state by using init_genrand64(seed) or init_by_array64(init_key, key_length).

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software is freely granted, provided that this notice
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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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This software package is based on the paper
I. Bogaert, "Iteration-Free Computation of Gauss-Legendre Quadrature Nodes and Weights",
to be published in the SIAM Journal of Scientific Computing.

The main features of this software are:
- Speed: due to the simple formulas and the O(1) complexity computation of individual Gauss-Legendre quadrature nodes and weights. This makes it compatible with parallel computing paradigms.
- Accuracy: the error on the nodes and weights is within a few ulps (see the paper for details).

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OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
A C-program for MT19937-64 (2004/9/29 version).
Coded by Takuji Nishimura and Makoto Matsumoto.

This is a 64-bit version of Mersenne Twister pseudorandom number
generator.

Before using, initialize the state by using init_genrand64(seed)
or init_by_array64(init_key, key_length).

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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This software package is based on the paper
I. Bogaert, "Iteration-Free Computation of Gauss-Legendre Quadrature Nodes and Weights",
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The main features of this software are:
- Speed: due to the simple formulas and the O(1) complexity computation of individual Gauss-Legendre quadrature nodes and weights. This makes it compatible with parallel computing paradigms.
- Accuracy: the error on the nodes and weights is within a few ulps (see the paper for details).

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OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
A C-program for MT19937-64 (2004/9/29 version).
Coded by Takuji Nishimura and Makoto Matsumoto.

This is a 64-bit version of Mersenne Twister pseudorandom number generator.

Before using, initialize the state by using init_genrand64(seed) or init_by_array64(init_key, key_length).

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``Mersenne Twister: a 623-dimensionally equidistributed uniform pseudorandom number generator"
ACM Transactions on Modeling and
Computer Simulation 8. (Jan. 1998) 3--30.

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software is freely granted, provided that this notice
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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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This software package is based on the paper
I. Bogaert, "Iteration-Free Computation of Gauss-Legendre Quadrature Nodes and Weights",

to be published in the SIAM Journal of Scientific Computing.

The main features of this software are:
- Speed: due to the simple formulas and the O(1) complexity computation of individual Gauss-Legendre quadrature nodes and weights. This makes it compatible with parallel computing paradigms.
- Accuracy: the error on the nodes and weights is within a few ulps (see the paper for details).

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A C-program for MT19937-64 (2004/9/29 version).
Coded by Takuji Nishimura and Makoto Matsumoto.

This is a 64-bit version of Mersenne Twister pseudorandom number generator.

Before using, initialize the state by using init_genrand64(seed) or init_by_array64(init_key, key_length).

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ACM Transactions on Modeling and
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1.5376 golang-genproto v0.0.0-20241202173237-19429a94021a

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1.5377 collector-cmd-builder v0.120.0

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1.5380 azure-sdk-for-go-sdk-storage-azblob v1.3.0

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//go:build go1.18
// +build go1.18

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// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package fake

import (
 "context"
 "errors"
 "fmt"
 azfake "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake/server"

```
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
 "net/http"
 "net/url"
 "regexp"
)

// LicensesServer is a fake server for instances of the armhybridcompute.LicensesClient type.
type LicensesServer struct {
 // BeginCreateOrUpdate is the fake for method LicensesClient.BeginCreateOrUpdate
 // HTTP status codes to indicate success:
 http.StatusOK
 BeginCreateOrUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
armhybridcompute.License, options *armhybridcompute.LicensesClientBeginCreateOrUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse], errResp
azfake.ErrorResponder)

 // BeginDelete is the fake for method LicensesClient.BeginDelete
 // HTTP status codes to indicate success: http.StatusOK, http.StatusNoContent
 BeginDelete func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientBeginDeleteOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse], errResp azfake.ErrorResponder)

 // Get is the fake for method LicensesClient.Get
 // HTTP status codes to indicate success: http.StatusOK
 Get func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientGetOptions) (resp
azfake.Responder[armhybridcompute.LicensesClientGetResponse],
 errResp azfake.ErrorResponder)

 // NewListByResourceGroupPager is the fake for method LicensesClient.NewListByResourceGroupPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListByResourceGroupPager func(resourceGroupName string, options
*armhybridcompute.LicensesClientListByResourceGroupOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse])

 // NewListBySubscriptionPager is the fake for method LicensesClient.NewListBySubscriptionPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListBySubscriptionPager func(options *armhybridcompute.LicensesClientListBySubscriptionOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse])

 // BeginUpdate is the fake for method LicensesClient.BeginUpdate
 // HTTP status codes to indicate success: http.StatusOK
 BeginUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
 armhybridcompute.LicenseUpdate, options *armhybridcompute.LicensesClientBeginUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse], errResp azfake.ErrorResponder)
```

```
 // BeginValidateLicense is the fake for method LicensesClient.BeginValidateLicense
 // HTTP status codes to indicate success: http.StatusOK
 BeginValidateLicense func(ctx context.Context, parameters armhybridcompute.License, options
*armhybridcompute.LicensesClientBeginValidateLicenseOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse], errResp
azfake.ErrorResponder)
}

// NewLicensesServerTransport creates a new instance of LicensesServerTransport with the provided
implementation.
// The returned LicensesServerTransport instance is connected to an instance of armhybridcompute.LicensesClient
via the
// azcore.ClientOptions.Transporter field in the client's constructor parameters.
func NewLicensesServerTransport(srv *LicensesServer) *LicensesServerTransport
 {
 return &LicensesServerTransport{
  srv:                        srv,
  beginCreateOrUpdate:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]](),
  beginDelete:                newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]](),
  newListByResourceGroupPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]](),
  newListBySubscriptionPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]](),
  beginUpdate:                newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]](),
  beginValidateLicense:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]](),
 }
}

// LicensesServerTransport connects instances of armhybridcompute.LicensesClient to instances of LicensesServer.
// Don't use this type directly, use NewLicensesServerTransport
 instead.
type LicensesServerTransport struct {
 srv                        *LicensesServer
 beginCreateOrUpdate
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]]
 beginDelete                *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]]
 newListByResourceGroupPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]]
 newListBySubscriptionPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]]
 beginUpdate                *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]]
 beginValidateLicense
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]]
}

// Do implements the policy.Transporter interface for LicensesServerTransport.
```

```
func (l *LicensesServerTransport) Do(req *http.Request) (*http.Response, error) {
 rawMethod := req.Context().Value(runtime.CtxAPINameKey{})
 method,
 ok := rawMethod.(string)
 if !ok {
  return nil, nonRetriableError{errors.New("unable to dispatch request, missing value for CtxAPINameKey")}
 }

 var resp *http.Response
 var err error

 switch method {
 case "LicensesClient.BeginCreateOrUpdate":
  resp, err = l.dispatchBeginCreateOrUpdate(req)
 case "LicensesClient.BeginDelete":
  resp, err = l.dispatchBeginDelete(req)
 case "LicensesClient.Get":
  resp, err = l.dispatchGet(req)
 case "LicensesClient.NewListByResourceGroupPager":
  resp, err = l.dispatchNewListByResourceGroupPager(req)
 case "LicensesClient.NewListBySubscriptionPager":
  resp, err = l.dispatchNewListBySubscriptionPager(req)
 case "LicensesClient.BeginUpdate":
  resp, err = l.dispatchBeginUpdate(req)
 case "LicensesClient.BeginValidateLicense":
  resp, err = l.dispatchBeginValidateLicense(req)
 default:
  err = fmt.Errorf("unhandled API %s", method)
 }

 if err != nil {
  return nil, err
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginCreateOrUpdate(req
 *http.Request) (*http.Response, error) {
 if l.srv.BeginCreateOrUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginCreateOrUpdate not implemented")}
 }
 beginCreateOrUpdate := l.beginCreateOrUpdate.get(req)
 if beginCreateOrUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
```

```
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return
 nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginCreateOrUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body,
nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginCreateOrUpdate = &respr
  l.beginCreateOrUpdate.add(req, beginCreateOrUpdate)
  }

 resp, err := server.PollerResponderNext(beginCreateOrUpdate, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginCreateOrUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginCreateOrUpdate) {
  l.beginCreateOrUpdate.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginDelete(req *http.Request) (*http.Response, error) {
 if l.srv.BeginDelete
 == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginDelete not implemented")}
 }
```

```
 beginDelete := l.beginDelete.get(req)
 if beginDelete == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginDelete(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
  if
 respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginDelete = &respr
  l.beginDelete.add(req, beginDelete)
 }

 resp, err := server.PollerResponderNext(beginDelete, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK, http.StatusNoContent}, resp.StatusCode) {
  l.beginDelete.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK,
http.StatusNoContent", resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginDelete) {
  l.beginDelete.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchGet(req *http.Request) (*http.Response, error) {
 if l.srv.Get == nil {
  return nil, &nonRetriableError{errors.New("fake for method Get not implemented")}
 }
```

```
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
 regex
 := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 3 {
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
  return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.Get(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 respContent := server.GetResponseContent(respr)
 if !contains([]int{http.StatusOK}, respContent.HTTPStatus) {
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
respContent.HTTPStatus)}
 }
 resp, err := server.MarshalResponseAsJSON(respContent,
 server.GetResponse(respr).License, req)
 if err != nil {
  return nil, err
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListByResourceGroupPager(req *http.Request) (*http.Response,
error) {
 if l.srv.NewListByResourceGroupPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListByResourceGroupPager not implemented")}
 }
 newListByResourceGroupPager := l.newListByResourceGroupPager.get(req)
 if newListByResourceGroupPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 2 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
```

```
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if
 err != nil {
   return nil, err
  }
  resp := l.srv.NewListByResourceGroupPager(resourceGroupNameParam, nil)
  newListByResourceGroupPager = &resp
  l.newListByResourceGroupPager.add(req, newListByResourceGroupPager)
  server.PagerResponderInjectNextLinks(newListByResourceGroupPager, req, func(page
*armhybridcompute.LicensesClientListByResourceGroupResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp, err := server.PagerResponderNext(newListByResourceGroupPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListByResourceGroupPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListByResourceGroupPager) {
  l.newListByResourceGroupPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListBySubscriptionPager(req *http.Request)
 (*http.Response, error) {
 if l.srv.NewListBySubscriptionPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListBySubscriptionPager not implemented")}
 }
 newListBySubscriptionPager := l.newListBySubscriptionPager.get(req)
 if newListBySubscriptionPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 1 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resp := l.srv.NewListBySubscriptionPager(nil)
  newListBySubscriptionPager = &resp
  l.newListBySubscriptionPager.add(req, newListBySubscriptionPager)
  server.PagerResponderInjectNextLinks(newListBySubscriptionPager, req, func(page
*armhybridcompute.LicensesClientListBySubscriptionResponse, createLink func() string) {
```

```
  page.NextLink = to.Ptr(createLink())
 })
 }
 resp,
 err := server.PagerResponderNext(newListBySubscriptionPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListBySubscriptionPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListBySubscriptionPager) {
  l.newListBySubscriptionPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginUpdate(req *http.Request) (*http.Response, error) {
 if l.srv.BeginUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginUpdate not implemented")}
 }
 beginUpdate := l.beginUpdate.get(req)
 if beginUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex
 := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.LicenseUpdate](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body, nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
```

```
  return nil, respErr
 }
 beginUpdate = &respr
 l.beginUpdate.add(req, beginUpdate)
}

resp, err := server.PollerResponderNext(beginUpdate, req)
if err != nil {
 return nil, err
}

if !contains([]int{http.StatusOK},
resp.StatusCode) {
 l.beginUpdate.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}
if !server.PollerResponderMore(beginUpdate) {
 l.beginUpdate.remove(req)
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginValidateLicense(req *http.Request) (*http.Response, error) {
if l.srv.BeginValidateLicense == nil {
 return nil, &nonRetriableError{errors.New("fake for method BeginValidateLicense not implemented")}
}
beginValidateLicense := l.beginValidateLicense.get(req)
if beginValidateLicense == nil {
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/validateLicense`
 regex := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 1 {
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 body,
err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.BeginValidateLicense(req.Context(), body, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 beginValidateLicense = &respr
 l.beginValidateLicense.add(req, beginValidateLicense)
```

```
 }

 resp, err := server.PollerResponderNext(beginValidateLicense, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginValidateLicense.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginValidateLicense) {
  l.beginValidateLicense.remove(req)
 }

 return resp, nil
}
```

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```
//go:build go1.18
// +build go1.18

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// Changes may cause incorrect behavior and will be lost if the code is regenerated.
```

```
package armhybridcompute

import (
 "context"
 "errors"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/arm"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/policy"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "net/http"
 "net/url"
 "strings"
)

// LicensesClient contains the methods for the Licenses group.
// Don't use this type directly, use NewLicensesClient() instead.
type LicensesClient struct {
 internal       *arm.Client
 subscriptionID string
}

// NewLicensesClient creates a new instance of LicensesClient with the specified values.
//   - subscriptionID - The ID of the target
 subscription.
//   - credential - used to authorize requests. Usually a credential from azidentity.
//   - options - pass nil to accept the default values.
func NewLicensesClient(subscriptionID string, credential azcore.TokenCredential, options *arm.ClientOptions)
(*LicensesClient, error) {
 cl, err := arm.NewClient(moduleName, moduleVersion, credential, options)
 if err != nil {
  return nil, err
 }
 client := &LicensesClient{
  subscriptionID: subscriptionID,
  internal:       cl,
 }
 return client, nil
}

// BeginCreateOrUpdate - The operation to create or update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - parameters - Parameters supplied to the Create license operation.
//   - options - LicensesClientBeginCreateOrUpdateOptions contains the optional parameters
```

```
 for the LicensesClient.BeginCreateOrUpdate
//     method.
func (client *LicensesClient) BeginCreateOrUpdate(ctx context.Context, resourceGroupName string, licenseName
string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions)
(*runtime.Poller[LicensesClientCreateOrUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.createOrUpdate(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// CreateOrUpdate - The operation to create or update a license.
// If the
 operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) createOrUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginCreateOrUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.createOrUpdateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
```

```
}

// createOrUpdateCreateRequest creates
 the CreateOrUpdate request.
func (client *LicensesClient) createOrUpdateCreateRequest(ctx context.Context, resourceGroupName string,
licenseName string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*policy.Request,
error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx,
 http.MethodPut, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginDelete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientBeginDeleteOptions contains the optional parameters for the
LicensesClient.BeginDelete method.
func (client *LicensesClient) BeginDelete(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*runtime.Poller[LicensesClientDeleteResponse],
```

```
 error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.deleteOperation(ctx, resourceGroupName, licenseName, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// Delete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) deleteOperation(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*http.Response, error) {
 var err error
 const
 operationName = "LicensesClient.BeginDelete"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.deleteCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK, http.StatusNoContent) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// deleteCreateRequest creates the Delete request.
func (client *LicensesClient) deleteCreateRequest(ctx context.Context, resourceGroupName string, licenseName
```

```
string, options *LicensesClientBeginDeleteOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodDelete, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// Get - Retrieves information about the view of a license.
//
 If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientGetOptions contains the optional parameters for the LicensesClient.Get method.
func (client *LicensesClient) Get(ctx context.Context, resourceGroupName string, licenseName string, options
*LicensesClientGetOptions) (LicensesClientGetResponse, error) {
 var err error
 const operationName = "LicensesClient.Get"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.getCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return LicensesClientGetResponse{}, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
```

```
 if err != nil
 {
  return LicensesClientGetResponse{}, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return LicensesClientGetResponse{}, err
 }
 resp, err := client.getHandleResponse(httpResp)
 return resp, err
}

// getCreateRequest creates the Get request.
func (client *LicensesClient) getCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientGetOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
 licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// getHandleResponse handles the Get response.
func (client *LicensesClient) getHandleResponse(resp *http.Response) (LicensesClientGetResponse, error) {
 result := LicensesClientGetResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.License); err != nil {
  return LicensesClientGetResponse{}, err
 }
```

```
 return result, nil
}

// NewListByResourceGroupPager - The operation to get all licenses of a non-Azure machine
//
// Generated from
 API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - options - LicensesClientListByResourceGroupOptions contains the optional parameters for the
LicensesClient.NewListByResourceGroupPager
//     method.
func (client *LicensesClient) NewListByResourceGroupPager(resourceGroupName string, options
*LicensesClientListByResourceGroupOptions) *runtime.Pager[LicensesClientListByResourceGroupResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListByResourceGroupResponse]{
  More: func(page LicensesClientListByResourceGroupResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListByResourceGroupResponse)
(LicensesClientListByResourceGroupResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListByResourceGroupPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp,
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listByResourceGroupCreateRequest(ctx, resourceGroupName, options)
   }, nil)
   if err != nil {
    return LicensesClientListByResourceGroupResponse{}, err
   }
   return client.listByResourceGroupHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listByResourceGroupCreateRequest creates the ListByResourceGroup request.
func (client *LicensesClient) listByResourceGroupCreateRequest(ctx context.Context, resourceGroupName string,
options *LicensesClientListByResourceGroupOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es"
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
```

```
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listByResourceGroupHandleResponse handles the ListByResourceGroup response.
func (client *LicensesClient) listByResourceGroupHandleResponse(resp *http.Response)
(LicensesClientListByResourceGroupResponse, error) {
 result := LicensesClientListByResourceGroupResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListByResourceGroupResponse{}, err
 }
 return
 result, nil
}

// NewListBySubscriptionPager - The operation to get all licenses of a non-Azure machine
//
// Generated from API version 2023-06-20-preview
//   - options - LicensesClientListBySubscriptionOptions contains the optional parameters for the
LicensesClient.NewListBySubscriptionPager
//     method.
func (client *LicensesClient) NewListBySubscriptionPager(options *LicensesClientListBySubscriptionOptions)
*runtime.Pager[LicensesClientListBySubscriptionResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListBySubscriptionResponse]{
  More: func(page LicensesClientListBySubscriptionResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListBySubscriptionResponse)
(LicensesClientListBySubscriptionResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListBySubscriptionPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp,
```

```
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listBySubscriptionCreateRequest(ctx, options)
   }, nil)
   if err != nil {
    return LicensesClientListBySubscriptionResponse{}, err
   }
   return client.listBySubscriptionHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listBySubscriptionCreateRequest creates the ListBySubscription request.
func (client *LicensesClient) listBySubscriptionCreateRequest(ctx context.Context, options
*LicensesClientListBySubscriptionOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/licenses"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet,
 runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listBySubscriptionHandleResponse handles the ListBySubscription response.
func (client *LicensesClient) listBySubscriptionHandleResponse(resp *http.Response)
(LicensesClientListBySubscriptionResponse, error) {
 result := LicensesClientListBySubscriptionResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListBySubscriptionResponse{}, err
 }
 return result, nil
}

// BeginUpdate - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
```

```
//   - licenseName
 - The name of the license.
//   - parameters - Parameters supplied to the Update license operation.
//   - options - LicensesClientBeginUpdateOptions contains the optional parameters for the
LicensesClient.BeginUpdate method.
func (client *LicensesClient) BeginUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions)
(*runtime.Poller[LicensesClientUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.update(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientUpdateResponse]{
   Tracer:
 client.internal.Tracer(),
  })
 }
}

// Update - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) update(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.updateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
```

```
 return
 nil, err
 }
 return httpResp, nil
}

// updateCreateRequest creates the Update request.
func (client *LicensesClient) updateCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}",
 url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodPatch, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - parameters - Parameters supplied to the license validation operation.
//   - options - LicensesClientBeginValidateLicenseOptions contains the optional parameters for the
LicensesClient.BeginValidateLicense
//     method.
func (client *LicensesClient) BeginValidateLicense(ctx context.Context, parameters License, options
```

```
*LicensesClientBeginValidateLicenseOptions)
 (*runtime.Poller[LicensesClientValidateLicenseResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.validateLicense(ctx, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientValidateLicenseResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientValidateLicenseResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// ValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) validateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions)
 (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginValidateLicense"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.validateLicenseCreateRequest(ctx, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// validateLicenseCreateRequest creates the ValidateLicense request.
```

```
func (client *LicensesClient) validateLicenseCreateRequest(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/validateLicense"
 if client.subscriptionID
 == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodPost, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}
```

azwebpubsub

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```
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// +build go1.18

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// DO NOT EDIT.

package armhybridcompute_test
```

```
import (
 "context"
 "log"

 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/azidentity"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
)

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_ValidateLicense.json
func ExampleLicensesClient_BeginValidateLicense() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err !=
 nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginValidateLicense(ctx, armhybridcompute.License{
  Location: to.Ptr("eastus2euap"),
  Properties: &armhybridcompute.LicenseProperties{
   LicenseDetails: &armhybridcompute.LicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err !=
 nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
```

```
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID: to.Ptr("/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/Licenses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](2),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //
    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_CreateOrUpdate.json
func ExampleLicensesClient_BeginCreateOrUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginCreateOrUpdate(ctx, "myResourceGroup",
 "{licenseName}", armhybridcompute.License{
  Location: to.Ptr("eastus2euap"),
  Properties: &armhybridcompute.LicenseProperties{
   LicenseDetails: &armhybridcompute.LicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
```

```
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values
 in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](2),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated
 from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_Update.json
func ExampleLicensesClient_BeginUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
```

```
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginUpdate(ctx, "myResourceGroup", "{licenseName}",
armhybridcompute.LicenseUpdate{
  Properties: &armhybridcompute.LicenseUpdateProperties{
   LicenseDetails: &armhybridcompute.LicenseUpdatePropertiesLicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors:
 to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/lice
nses/{licenseName}"),
 //
  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
```

```
// },
// }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_Get.json
func ExampleLicensesClient_Get() {
cred, err := azidentity.NewDefaultAzureCredential(nil)
if
err != nil {
 log.Fatalf("failed to obtain a credential: %v", err)
}
ctx := context.Background()
clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
if err != nil {
 log.Fatalf("failed to create client: %v", err)
}
res, err := clientFactory.NewLicensesClient().Get(ctx, "myResourceGroup", "{licenseName}", nil)
if err != nil {
 log.Fatalf("failed to finish the request: %v", err)
}
// You could use response here. We use blank identifier for just demo purposes.
_ = res
// If the HTTP response code is 200 as defined in example definition, your response structure would look as follows. Please pay attention that all the values in the output are fake values for just demo purposes.
// res.License = armhybridcompute.License{
//  Name: to.Ptr("{licenseName}"),
//  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
//  ID: to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Licenses/{licenseName}"),
//  Location: to.Ptr("eastus2euap"),
//  Properties: &armhybridcompute.LicenseProperties{
//   LicenseDetails: &armhybridcompute.LicenseDetails{
//    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
//    AssignedLicenses: to.Ptr[int32](8),
//    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//    ImmutableID: to.Ptr("<generated Guid>"),
//    Processors: to.Ptr[int32](6),
//    State: to.Ptr(armhybridcompute.LicenseStateActivated),
//    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//   },
//   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
//   TenantID: to.Ptr("{tenandId}"),
//  },
// }
```

```
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_Delete.json
func ExampleLicensesClient_BeginDelete()
 {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginDelete(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 _, err = poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-
preview/examples/license/License_ListByResourceGroup.json
func ExampleLicensesClient_NewListByResourceGroupPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if
 err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListByResourceGroupPager("myResourceGroup", nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
```

```
  // You could use page here. We use blank identifier for just demo purposes.
  _ = v
 }
 // If the HTTP response code is 200 as defined in example definition, your page structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // page.LicensesListResult = armhybridcompute.LicensesListResult{
 //  Value: []*armhybridcompute.License{
 //   {
 //    Name: to.Ptr("{licenseName}"),
 //
   Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //    Location: to.Ptr("eastus2euap"),
 //    Properties: &armhybridcompute.LicenseProperties{
 //     LicenseDetails: &armhybridcompute.LicenseDetails{
 //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //      AssignedLicenses: to.Ptr[int32](8),
 //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //      ImmutableID: to.Ptr("<generated Guid>"),
 //      Processors: to.Ptr[int32](6),
 //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //     },
 //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //     TenantID: to.Ptr("{tenandId}"),
 //    },
 //  }},
 // }
 }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-
preview/examples/license/License_ListBySubscription.json
func
 ExampleLicensesClient_NewListBySubscriptionPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
```

```
 pager := clientFactory.NewLicensesClient().NewListBySubscriptionPager(nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
   // You could use page here. We use blank identifier for just demo purposes.
   _ = v
  }
  // If the HTTP response code is 200 as defined in example definition, your page structure would look as
follows. Please pay attention that all the values in the output are fake values for just demo purposes.
  // page.LicensesListResult = armhybridcompute.LicensesListResult{
  //  Value: []*armhybridcompute.License{
  //   {
  //    Name: to.Ptr("{licenseName}"),
  //    Type: to.Ptr("Microsoft.HybridCompute/licenses"),
  //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
  //    Location: to.Ptr("eastus2euap"),
  //    Properties: &armhybridcompute.LicenseProperties{
  //     LicenseDetails: &armhybridcompute.LicenseDetails{
  //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
  //      AssignedLicenses: to.Ptr[int32](8),
  //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
  //      ImmutableID: to.Ptr("<generated Guid>"),
  //      Processors: to.Ptr[int32](6),
  //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
  //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
  //
     },
  //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  //     TenantID: to.Ptr("{tenandId}"),
  //    },
  //  }},
  // }
 }
}
```

1.5381 azure-sdk-for-go-sdk-azcore v1.14.0

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{
"main": "dist/src/index.js",
"dependencies": {
"@azure-tools/typespec-go": "0.3.0"
},
"devDependencies": {
"@azure-tools/typespec-autorest": "0.44.1",
"@azure-tools/typespec-azure-core": "0.44.0",
"@azure-tools/typespec-azure-resource-manager": "0.44.0",
"@azure-tools/typespec-azure-rulesets": "0.44.0",
"@azure-tools/typespec-client-generator-core": "0.44.3",
"@typespec/compiler": "0.58.1",
"@typespec/http": "0.58.0",
"@typespec/openapi": "0.58.0",
"@typespec/rest": "0.58.0",
"@typespec/versioning": "0.58.0"
}
}

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```
//go:build go1.18
// +build go1.18

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// Licensed under the MIT License. See License.txt in the project root for license information.
// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package fake

import (
 "context"
 "errors"
 "fmt"
 azfake "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake/server"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
 "net/http"
 "net/url"
 "regexp"
)

// LicensesServer is a fake server for instances of the armhybridcompute.LicensesClient type.
type LicensesServer struct {
 // BeginCreateOrUpdate is the fake for method LicensesClient.BeginCreateOrUpdate
 // HTTP status codes to indicate success:
 http.StatusOK
 BeginCreateOrUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
armhybridcompute.License, options *armhybridcompute.LicensesClientBeginCreateOrUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse], errResp
azfake.ErrorResponder)

 // BeginDelete is the fake for method LicensesClient.BeginDelete
 // HTTP status codes to indicate success: http.StatusOK, http.StatusNoContent
 BeginDelete func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientBeginDeleteOptions) (resp
```

```
azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse], errResp azfake.ErrorResponder)

 // Get is the fake for method LicensesClient.Get
 // HTTP status codes to indicate success: http.StatusOK
 Get func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientGetOptions) (resp
azfake.Responder[armhybridcompute.LicensesClientGetResponse],
 errResp azfake.ErrorResponder)

 // NewListByResourceGroupPager is the fake for method LicensesClient.NewListByResourceGroupPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListByResourceGroupPager func(resourceGroupName string, options
*armhybridcompute.LicensesClientListByResourceGroupOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse])

 // NewListBySubscriptionPager is the fake for method LicensesClient.NewListBySubscriptionPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListBySubscriptionPager func(options *armhybridcompute.LicensesClientListBySubscriptionOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse])

 // BeginUpdate is the fake for method LicensesClient.BeginUpdate
 // HTTP status codes to indicate success: http.StatusOK
 BeginUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
 armhybridcompute.LicenseUpdate, options *armhybridcompute.LicensesClientBeginUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse], errResp azfake.ErrorResponder)
}

// NewLicensesServerTransport creates a new instance of LicensesServerTransport with the provided
implementation.
// The returned LicensesServerTransport instance is connected to an instance of armhybridcompute.LicensesClient
via the
// azcore.ClientOptions.Transporter field in the client's constructor parameters.
func NewLicensesServerTransport(srv *LicensesServer) *LicensesServerTransport {
 return &LicensesServerTransport{
  srv:                    srv,
  beginCreateOrUpdate:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]]():
  beginDelete:            newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]]():
  newListByResourceGroupPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]]():
  newListBySubscriptionPager:
  newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]]():
  beginUpdate:            newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]]():
 }
}

// LicensesServerTransport connects instances of armhybridcompute.LicensesClient to instances of LicensesServer.
// Don't use this type directly, use NewLicensesServerTransport instead.
```

```
type LicensesServerTransport struct {
 srv                     *LicensesServer
 beginCreateOrUpdate
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]]
 beginDelete                *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]]
 newListByResourceGroupPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]]
 newListBySubscriptionPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]]
 beginUpdate
                *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]]
}

// Do implements the policy.Transporter interface for LicensesServerTransport.
func (l *LicensesServerTransport) Do(req *http.Request) (*http.Response, error) {
 rawMethod := req.Context().Value(runtime.CtxAPINameKey{})
 method, ok := rawMethod.(string)
 if !ok {
  return nil, nonRetriableError{errors.New("unable to dispatch request, missing value for CtxAPINameKey")}
 }

 var resp *http.Response
 var err error

 switch method {
 case "LicensesClient.BeginCreateOrUpdate":
  resp, err = l.dispatchBeginCreateOrUpdate(req)
 case "LicensesClient.BeginDelete":
  resp, err = l.dispatchBeginDelete(req)
 case "LicensesClient.Get":
  resp, err = l.dispatchGet(req)
 case "LicensesClient.NewListByResourceGroupPager":
  resp, err = l.dispatchNewListByResourceGroupPager(req)
 case "LicensesClient.NewListBySubscriptionPager":
  resp, err = l.dispatchNewListBySubscriptionPager(req)
 case
 "LicensesClient.BeginUpdate":
  resp, err = l.dispatchBeginUpdate(req)
 default:
  err = fmt.Errorf("unhandled API %s", method)
 }

 if err != nil {
  return nil, err
 }

 return resp, nil
}
```

```
func (l *LicensesServerTransport) dispatchBeginCreateOrUpdate(req *http.Request) (*http.Response, error) {
 if l.srv.BeginCreateOrUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginCreateOrUpdate not implemented")}
 }
 beginCreateOrUpdate := l.beginCreateOrUpdate.get(req)
 if beginCreateOrUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body,
 err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginCreateOrUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body,
nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginCreateOrUpdate = &respr
  l.beginCreateOrUpdate.add(req, beginCreateOrUpdate)
 }

 resp, err := server.PollerResponderNext(beginCreateOrUpdate, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginCreateOrUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if
```

```
 !server.PollerResponderMore(beginCreateOrUpdate) {
  l.beginCreateOrUpdate.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginDelete(req *http.Request) (*http.Response, error) {
 if l.srv.BeginDelete == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginDelete not implemented")}
 }
 beginDelete := l.beginDelete.get(req)
 if beginDelete == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return
 nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginDelete(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginDelete = &respr
  l.beginDelete.add(req, beginDelete)
 }

 resp, err := server.PollerResponderNext(beginDelete, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK, http.StatusNoContent}, resp.StatusCode) {
  l.beginDelete.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK,
http.StatusNoContent", resp.StatusCode)}
 }
```

```
 if !server.PollerResponderMore(beginDelete) {
  l.beginDelete.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchGet(req *http.Request) (*http.Response, error) {
 if l.srv.Get == nil {
  return nil, &nonRetriableError{errors.New("fake
 for method Get not implemented")}
 }
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
 regex := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 3 {
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
  return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.Get(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 respContent := server.GetResponseContent(respr)
 if
 !contains([]int{http.StatusOK}, respContent.HTTPStatus) {
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
respContent.HTTPStatus)}
 }
 resp, err := server.MarshalResponseAsJSON(respContent, server.GetResponse(respr).License, req)
 if err != nil {
  return nil, err
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListByResourceGroupPager(req *http.Request) (*http.Response,
error) {
 if l.srv.NewListByResourceGroupPager == nil {
```

```
 return nil, &nonRetriableError{errors.New("fake for method NewListByResourceGroupPager not implemented")}
 }
 newListByResourceGroupPager := l.newListByResourceGroupPager.get(req)
 if newListByResourceGroupPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches :=
 regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 2 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  resp := l.srv.NewListByResourceGroupPager(resourceGroupNameParam, nil)
  newListByResourceGroupPager = &resp
  l.newListByResourceGroupPager.add(req, newListByResourceGroupPager)
  server.PagerResponderInjectNextLinks(newListByResourceGroupPager, req, func(page
*armhybridcompute.LicensesClientListByResourceGroupResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp, err := server.PagerResponderNext(newListByResourceGroupPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListByResourceGroupPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values
 are http.StatusOK", resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListByResourceGroupPager) {
  l.newListByResourceGroupPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListBySubscriptionPager(req *http.Request) (*http.Response, error)
{
 if l.srv.NewListBySubscriptionPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListBySubscriptionPager not implemented")}
 }
 newListBySubscriptionPager := l.newListBySubscriptionPager.get(req)
 if newListBySubscriptionPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
```

```
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 1 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resp := l.srv.NewListBySubscriptionPager(nil)
  newListBySubscriptionPager = &resp
  l.newListBySubscriptionPager.add(req,
 newListBySubscriptionPager)
  server.PagerResponderInjectNextLinks(newListBySubscriptionPager, req, func(page
*armhybridcompute.LicensesClientListBySubscriptionResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp, err := server.PagerResponderNext(newListBySubscriptionPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListBySubscriptionPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListBySubscriptionPager) {
  l.newListBySubscriptionPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginUpdate(req *http.Request) (*http.Response, error) {
 if l.srv.BeginUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginUpdate not implemented")}
 }
 beginUpdate := l.beginUpdate.get(req)
 if
 beginUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.LicenseUpdate](req)
  if err != nil {
   return nil, err
```

```
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
  return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.BeginUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body, nil)
 if respErr := server.GetError(errRespr,
req); respErr != nil {
  return nil, respErr
 }
 beginUpdate = &respr
 l.beginUpdate.add(req, beginUpdate)
}

resp, err := server.PollerResponderNext(beginUpdate, req)
if err != nil {
 return nil, err
}

if !contains([]int{http.StatusOK}, resp.StatusCode) {
 l.beginUpdate.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}
if !server.PollerResponderMore(beginUpdate) {
 l.beginUpdate.remove(req)
}

return resp, nil
}
//go:build go1.18
// +build go1.18

// Copyright (c) Microsoft Corporation. All rights reserved.
// Licensed under the MIT License. See License.txt in the project root for license information.
// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package armhybridcompute

import (
 "context"
 "errors"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore"
```

```
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/arm"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/policy"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "net/http"
 "net/url"
 "strings"
)

// LicensesClient contains the methods for the Licenses group.
// Don't use this type directly, use NewLicensesClient() instead.
type LicensesClient struct {
 internal       *arm.Client
 subscriptionID string
}

// NewLicensesClient creates a new instance of LicensesClient with the specified values.
//   - subscriptionID - The ID of the target
 subscription.
//   - credential - used to authorize requests. Usually a credential from azidentity.
//   - options - pass nil to accept the default values.
func NewLicensesClient(subscriptionID string, credential azcore.TokenCredential, options *arm.ClientOptions)
(*LicensesClient, error) {
 cl, err := arm.NewClient(moduleName, moduleVersion, credential, options)
 if err != nil {
  return nil, err
 }
 client := &LicensesClient{
  subscriptionID: subscriptionID,
  internal:       cl,
 }
 return client, nil
}

// BeginCreateOrUpdate - The operation to create or update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-05-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - parameters - Parameters supplied to the Create license operation.
//   - options - LicensesClientBeginCreateOrUpdateOptions contains the optional parameters
 for the LicensesClient.BeginCreateOrUpdate
//     method.
func (client *LicensesClient) BeginCreateOrUpdate(ctx context.Context, resourceGroupName string, licenseName
string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions)
(*runtime.Poller[LicensesClientCreateOrUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.createOrUpdate(ctx, resourceGroupName, licenseName, parameters, options)
```

```
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// CreateOrUpdate - The operation to create or update a license.
// If the
 operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-05-20-preview
func (client *LicensesClient) createOrUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginCreateOrUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.createOrUpdateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// createOrUpdateCreateRequest creates
 the CreateOrUpdate request.
func (client *LicensesClient) createOrUpdateCreateRequest(ctx context.Context, resourceGroupName string,
licenseName string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*policy.Request,
error) {
```

```
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx,
 http.MethodPut, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-05-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginDelete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-05-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientBeginDeleteOptions contains the optional parameters for the
LicensesClient.BeginDelete method.
func (client *LicensesClient) BeginDelete(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*runtime.Poller[LicensesClientDeleteResponse],
 error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.deleteOperation(ctx, resourceGroupName, licenseName, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientDeleteResponse]{
```

```
  Tracer: client.internal.Tracer(),
 })
 return poller, err
} else {
 return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientDeleteResponse]{
  Tracer: client.internal.Tracer(),
 })
}
}

// Delete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-05-20-preview
func (client *LicensesClient) deleteOperation(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*http.Response, error) {
 var err error
 const
 operationName = "LicensesClient.BeginDelete"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.deleteCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK, http.StatusNoContent) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// deleteCreateRequest creates the Delete request.
func (client *LicensesClient) deleteCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientBeginDeleteOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
```

```
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodDelete, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-05-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// Get - Retrieves information about the view of a license.
//
 If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-05-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientGetOptions contains the optional parameters for the LicensesClient.Get method.
func (client *LicensesClient) Get(ctx context.Context, resourceGroupName string, licenseName string, options
*LicensesClientGetOptions) (LicensesClientGetResponse, error) {
 var err error
 const operationName = "LicensesClient.Get"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.getCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return LicensesClientGetResponse{}, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil
 {
  return LicensesClientGetResponse{}, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return LicensesClientGetResponse{}, err
 }
```

```
 resp, err := client.getHandleResponse(httpResp)
 return resp, err
}

// getCreateRequest creates the Get request.
func (client *LicensesClient) getCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientGetOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
 licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-05-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// getHandleResponse handles the Get response.
func (client *LicensesClient) getHandleResponse(resp *http.Response) (LicensesClientGetResponse, error) {
 result := LicensesClientGetResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.License); err != nil {
  return LicensesClientGetResponse{}, err
 }
 return result, nil
}

// NewListByResourceGroupPager - The operation to get all licenses of a non-Azure machine
//
// Generated from
 API version 2024-05-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
```

```
//   - options - LicensesClientListByResourceGroupOptions contains the optional parameters for the
LicensesClient.NewListByResourceGroupPager
//     method.
func (client *LicensesClient) NewListByResourceGroupPager(resourceGroupName string, options
*LicensesClientListByResourceGroupOptions) *runtime.Pager[LicensesClientListByResourceGroupResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListByResourceGroupResponse]{
  More: func(page LicensesClientListByResourceGroupResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListByResourceGroupResponse)
(LicensesClientListByResourceGroupResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListByResourceGroupPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp,
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listByResourceGroupCreateRequest(ctx, resourceGroupName, options)
   }, nil)
   if err != nil {
    return LicensesClientListByResourceGroupResponse{}, err
   }
   return client.listByResourceGroupHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listByResourceGroupCreateRequest creates the ListByResourceGroup request.
func (client *LicensesClient) listByResourceGroupCreateRequest(ctx context.Context, resourceGroupName string,
options *LicensesClientListByResourceGroupOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es"
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
```

```
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-05-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listByResourceGroupHandleResponse handles the ListByResourceGroup response.
func (client *LicensesClient) listByResourceGroupHandleResponse(resp *http.Response)
(LicensesClientListByResourceGroupResponse, error) {
 result := LicensesClientListByResourceGroupResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListByResourceGroupResponse{}, err
 }
 return
 result, nil
}

// NewListBySubscriptionPager - The operation to get all licenses of a non-Azure machine
//
// Generated from API version 2024-05-20-preview
//   - options - LicensesClientListBySubscriptionOptions contains the optional parameters for the
LicensesClient.NewListBySubscriptionPager
//     method.
func (client *LicensesClient) NewListBySubscriptionPager(options *LicensesClientListBySubscriptionOptions)
*runtime.Pager[LicensesClientListBySubscriptionResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListBySubscriptionResponse]{
  More: func(page LicensesClientListBySubscriptionResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListBySubscriptionResponse)
(LicensesClientListBySubscriptionResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListBySubscriptionPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp,
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listBySubscriptionCreateRequest(ctx, options)
   }, nil)
   if err != nil {
    return LicensesClientListBySubscriptionResponse{}, err
   }
   return client.listBySubscriptionHandleResponse(resp)
  },
```

```
  Tracer: client.internal.Tracer(),
 })
}

// listBySubscriptionCreateRequest creates the ListBySubscription request.
func (client *LicensesClient) listBySubscriptionCreateRequest(ctx context.Context, options
*LicensesClientListBySubscriptionOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/licenses"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet,
 runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-05-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listBySubscriptionHandleResponse handles the ListBySubscription response.
func (client *LicensesClient) listBySubscriptionHandleResponse(resp *http.Response)
(LicensesClientListBySubscriptionResponse, error) {
 result := LicensesClientListBySubscriptionResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListBySubscriptionResponse{}, err
 }
 return result, nil
}

// BeginUpdate - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-05-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName
 - The name of the license.
//   - parameters - Parameters supplied to the Update license operation.
//   - options - LicensesClientBeginUpdateOptions contains the optional parameters for the
LicensesClient.BeginUpdate method.
func (client *LicensesClient) BeginUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions)
(*runtime.Poller[LicensesClientUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
```

```
  resp, err := client.update(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientUpdateResponse]{
   Tracer:
 client.internal.Tracer(),
  })
 }
}

// Update - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-05-20-preview
func (client *LicensesClient) update(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.updateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return
 nil, err
 }
 return httpResp, nil
}

// updateCreateRequest creates the Update request.
func (client *LicensesClient) updateCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*policy.Request, error) {
```

```
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}",
 url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodPatch, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-05-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}
```

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```
//go:build go1.18
// +build go1.18

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// Code generated by Microsoft (R) AutoRest Code Generator.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.
// DO NOT EDIT.

package armhybridcompute_test

import (
 "context"
 "log"

 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/azidentity"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
)

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/b574e2a41acda14a90ef237006e8bbdda2b63c63/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-05-20-preview/examples/license/License_CreateOrUpdate.json
func ExampleLicensesClient_BeginCreateOrUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil
```

```
 {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginCreateOrUpdate(ctx, "myResourceGroup", "{licenseName}",
armhybridcompute.License{
  Location: to.Ptr("eastus2euap"),
  Properties: &armhybridcompute.LicenseProperties{
   LicenseDetails: &armhybridcompute.LicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx,
 nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](2),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID:
```

```
 to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/b574e2a41acda14a90ef237006e8bbdda2b63c63/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-05-20-preview/examples/license/License_Update.json
func ExampleLicensesClient_BeginUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginUpdate(ctx,
 "myResourceGroup", "{licenseName}", armhybridcompute.LicenseUpdate{
  Properties: &armhybridcompute.LicenseUpdateProperties{
   LicenseDetails: &armhybridcompute.LicenseUpdatePropertiesLicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please
```

```
 pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/lice
nses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //
  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/b574e2a41acda14a90ef237006e8bbdda2b63c63/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-05-20-preview/examples/license/License_Get.json
func ExampleLicensesClient_Get() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 res, err := clientFactory.NewLicensesClient().Get(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would
 look as follows. Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
```

```
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //
   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/b574e2a41acda14a90ef237006e8bbdda2b63c63/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-05-20-preview/examples/license/License_Delete.json
func ExampleLicensesClient_BeginDelete() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginDelete(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 _, err = poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
}

// Generated from example
 definition: https://github.com/Azure/azure-rest-api-
specs/blob/b574e2a41acda14a90ef237006e8bbdda2b63c63/specification/hybridcompute/resource-
```

```
manager/Microsoft.HybridCompute/preview/2024-05-20-
preview/examples/license/License_ListByResourceGroup.json
func ExampleLicensesClient_NewListByResourceGroupPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListByResourceGroupPager("myResourceGroup", nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
   // You could use page here. We use blank identifier for just demo purposes.
   _ = v
  }
  // If the HTTP response
 code is 200 as defined in example definition, your page structure would look as follows. Please pay attention that all
the values in the output are fake values for just demo purposes.
  // page.LicensesListResult = armhybridcompute.LicensesListResult{
  //  Value: []*armhybridcompute.License{
  //   {
  //    Name: to.Ptr("{licenseName}"),
  //    Type: to.Ptr("Microsoft.HybridCompute/licenses"),
  //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
  //    Location: to.Ptr("eastus2euap"),
  //    Properties: &armhybridcompute.LicenseProperties{
  //     LicenseDetails: &armhybridcompute.LicenseDetails{
  //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
  //      AssignedLicenses: to.Ptr[int32](8),
  //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
  //      ImmutableID: to.Ptr("<generated Guid>"),
  //      Processors: to.Ptr[int32](6),
  //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
  //
     Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
  //     },
  //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  //     TenantID: to.Ptr("{tenandId}"),
  //    },
```

```
 //  }},
 // }
 }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/b574e2a41acda14a90ef237006e8bbdda2b63c63/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-05-20-
preview/examples/license/License_ListBySubscription.json
func ExampleLicensesClient_NewListBySubscriptionPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListBySubscriptionPager(nil)
 for pager.More()
 {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
   // You could use page here. We use blank identifier for just demo purposes.
   _ = v
  }
  // If the HTTP response code is 200 as defined in example definition, your page structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
  // page.LicensesListResult = armhybridcompute.LicensesListResult{
  //  Value: []*armhybridcompute.License{
  //   {
  //    Name: to.Ptr("{licenseName}"),
  //    Type: to.Ptr("Microsoft.HybridCompute/licenses"),
  //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
  //    Location: to.Ptr("eastus2euap"),
  //    Properties: &armhybridcompute.LicenseProperties{
  //     LicenseDetails: &armhybridcompute.LicenseDetails{
  //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
  //
     AssignedLicenses: to.Ptr[int32](8),
  //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
  //      ImmutableID: to.Ptr("<generated Guid>"),
```

```
 //      Processors: to.Ptr[int32](6),
 //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //     },
 //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //     TenantID: to.Ptr("{tenandId}"),
 //    },
 //  }},
 // }
 }
}
```

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1.5385 pylint 3.3.6

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1.5386 k8s-io-apimachinery 0.30.11

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1.5388 github.com/projectcalico/calico 3.29.3

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TEMPORARY
btf_dump/btf_dump: syntax
kprobe_multi_bench_attach
core_reloc/enum64val
core_reloc/size___diff_sz
core_reloc/type_based___diff_sz
test_ima # All of CI is broken on it following 6.3-rc1 merge

lwt_reroute # crashes kernel after netnext merge from 2ab1efad60ad "net/sched: cls_api: complement tcf_tfilter_dump_policy"
tc_links_ingress # started failing after net-next merge from 2ab1efad60ad "net/sched: cls_api: complement tcf_tfilter_dump_policy"
xdp_bonding/xdp_bonding_features # started failing after net merge from 359e54a93ab4 "l2tp: pass correct message length to ip6_append_data"
tc_redirect/tc_redirect_dtime # uapi breakage after net-next commit 885c36e59f46 ("net: Re-use and set mono_delivery_time bit for userspace tstamp packets")
migrate_reuseport/IPv4 TCP_NEW_SYN_RECV reqsk_timer_handler # flaky, under investigation
migrate_reuseport/IPv6 TCP_NEW_SYN_RECV reqsk_timer_handler # flaky, under investigation

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======

This is the official home of the libbpf library.

*Please use this Github
 repository for building and packaging libbpf
and when using it in your projects through Git submodule.*

Libbpf *authoritative source code* is developed as part of [bpf-next Linux source
tree](https://kernel.googlesource.com/pub/scm/linux/kernel/git/bpf/bpf-next) under
`tools/lib/bpf` subdirectory and is periodically synced to Github. As such, all the
libbpf changes should be sent to [BPF mailing list](http://vger.kernel.org/vger-lists.html#bpf),
please don't open PRs here unless you are changing Github-specific parts of libbpf
(e.g., Github-specific Makefile).

Libbpf and general BPF usage questions
==========

Libbpf documentation can be found [here](https://libbpf.readthedocs.io/en/latest/api.html).
It's an ongoing effort and has ways to go, but please take a look and consider contributing as well.

Please check out [libbpf-bootstrap](https://github.com/libbpf/libbpf-bootstrap)
and [the companion blog post](https://nakryiko.com/posts/libbpf-bootstrap/)
 for
the examples of building BPF applications with libbpf.
[libbpf-tools](https://github.com/iovisor/bcc/tree/master/libbpf-tools) are also
a good source of the real-world libbpf-based tracing tools.

See also ["BPF CO-RE reference guide"](https://nakryiko.com/posts/bpf-core-reference-guide/)
for the coverage of practical aspects of building BPF CO-RE applications and
["BPF CO-RE"](https://nakryiko.com/posts/bpf-portability-and-co-re/) for
general introduction into BPF portability issues and BPF CO-RE origins.

All general BPF questions, including kernel functionality, libbpf APIs and their application, should be sent to bpf@vger.kernel.org mailing list. You can subscribe to it [here](http://vger.kernel.org/vger-lists.html#bpf) and search its archive [here](https://lore.kernel.org/bpf/). Please search the archive before asking new questions. It very well might be that this was already addressed or answered before.

bpf@vger.kernel.org is monitored by many more people and they will
happily try
to help you with whatever issue you have. This repository's PRs and issues should be opened only for dealing with issues pertaining to specific way this libbpf mirror repo is set up and organized.

Building libbpf
==========
libelf is an internal dependency of libbpf and thus it is required to link against and must be installed on the system for applications to work.
pkg-config is used by default to find libelf, and the program called can be overridden with `PKG_CONFIG`.

If using `pkg-config` at build time is not desired, it can be disabled by setting `NO_PKG_CONFIG=1` when calling make.

To build both static libbpf.a and shared libbpf.so:
```bash
$ cd src
$ make
```

To build only static libbpf.a library in directory
build/ and install them together with libbpf headers in a staging directory
root/:
```bash
$ cd src
$ mkdir build root
$ BUILD_STATIC_ONLY=y OBJDIR=build DESTDIR=root make install
```

To build both static libbpf.a and shared libbpf.so against a custom libelf
dependency
installed in /build/root/ and install them together with libbpf
headers in a build directory /build/root/:
```bash
$ cd src
$ PKG_CONFIG_PATH=/build/root/lib64/pkgconfig DESTDIR=/build/root make install
```

BPF CO-RE (Compile Once Run Everywhere)
==========

Libbpf supports building BPF CO-RE-enabled applications, which, in contrast to [BCC](https://github.com/iovisor/bcc/), do not require Clang/LLVM runtime being deployed to target servers and doesn't rely on kernel-devel headers being available.

It does rely on kernel to be built with [BTF type information](https://www.kernel.org/doc/html/latest/bpf/btf.html), though. Some major Linux distributions come with kernel BTF already built in:
- Fedora 31+
- RHEL 8.2+
- OpenSUSE Tumbleweed (in the next release, as of 2020-06-04)
- Arch Linux (from kernel 5.7.1.arch1-1)
- Manjaro (from kernel 5.4 if compiled after 2021-06-18)
- Ubuntu 20.10
- Debian 11 (amd64/arm64)

If your kernel
 doesn't come with BTF built-in, you'll need to build custom
kernel. You'll need:
- `pahole` 1.16+ tool (part of `dwarves` package), which performs DWARF to
  BTF conversion;
- kernel built with `CONFIG_DEBUG_INFO_BTF=y` option;
- you can check if your kernel has BTF built-in by looking for
  `/sys/kernel/btf/vmlinux` file:

```shell
$ ls -la /sys/kernel/btf/vmlinux
-r--r--r--. 1 root root 3541561 Jun  2 18:16 /sys/kernel/btf/vmlinux
```

To develop and build BPF programs, you'll need Clang/LLVM 10+. The following distributions have Clang/LLVM 10+ packaged by default:
- Fedora 32+
- Ubuntu 20.04+
- Arch Linux
- Ubuntu 20.10 (LLVM 11)
- Debian 11 (LLVM 11)
- Alpine 3.13+

Otherwise, please make sure to update it on your system.

The following resources are useful to understand what BPF CO-RE is and how to use it:
- [BPF CO-RE reference guide](https://nakryiko.com/posts/bpf-core-reference-guide/)
- [BPF Portability and CO-RE](https://nakryiko.com/posts/bpf-portability-and-co-re/)

-
 [HOWTO: BCC to libbpf conversion](https://nakryiko.com/posts/bcc-to-libbpf-howto-guide/)
- [libbpf-tools in BCC repo](https://github.com/iovisor/bcc/tree/master/libbpf-tools)
 contain lots of real-world tools converted from BCC to BPF CO-RE. Consider
 converting some more to both contribute to the BPF community and gain some
 more experience with it.

Distributions
==========

Distributions packaging libbpf from this mirror:
 - [Fedora](https://src.fedoraproject.org/rpms/libbpf)
 - [Gentoo](https://packages.gentoo.org/packages/dev-libs/libbpf)
 - [Debian](https://packages.debian.org/source/sid/libbpf)
 - [Arch](https://archlinux.org/packages/core/x86_64/libbpf/)
 - [Ubuntu](https://packages.ubuntu.com/source/jammy/libbpf)
 - [Alpine](https://pkgs.alpinelinux.org/packages?name=libbpf)

Benefits of packaging from the mirror over packaging from kernel sources:
 - Consistent versioning across distributions.
 - No ties to any specific kernel, transparent
 handling of older kernels.
   Libbpf is designed to be kernel-agnostic and work across multitude of
   kernel versions. It has built-in mechanisms to gracefully handle older
   kernels, that are missing some of the features, by working around or
   gracefully degrading functionality. Thus libbpf is not tied to a specific
   kernel version and can/should be packaged and versioned independently.
 - Continuous integration testing via
   [GitHub Actions](https://github.com/libbpf/libbpf/actions).
 - Static code analysis via [LGTM](https://lgtm.com/projects/g/libbpf/libbpf)
   and [Coverity](https://scan.coverity.com/projects/libbpf).

Package dependencies of libbpf, package names may vary across distros:
 - zlib
 - libelf

[![libbpf distro packaging status](https://repology.org/badge/vertical-
allrepos/libbpf.svg)](https://repology.org/project/libbpf/versions)

bpf-next to Github sync
==========

All the gory details of syncing can be found in `scripts/sync-kernel.sh`
script.
 See SYNC.md for instruction.

Some header files in this repo (`include/linux/*.h`) are reduced versions of

their counterpart files at
[bpf-next](https://git.kernel.org/pub/scm/linux/kernel/git/bpf/bpf-next.git/)'s
`tools/include/linux/*.h` to make compilation successful.

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==========
3e9bc0472b910d4115e16e9c2d684c7757cb6c60
version: v1.0
name: Run Fossa Scan

agent:
 machine:
   type: f1-standard-2
   os_image: ubuntu2004

```
execution_time_limit:
 minutes: 30

blocks:
 - name: "Trigger Fossa Scan"
   skip:
     # Only run on master or release branches, not PRs.
     when: "(branch =~ 'master|release-.*') and (branch !~ '.+')"
   dependencies: []
   task:
     prologue:
       commands:
         - "curl -fsSLH 'Cache-Control: no-cache' https://raw.githubusercontent.com/fossas/fossa-cli/master/install-latest.sh | bash"
         - checkout
         - retry git fetch --unshallow
     jobs:
       - name: "FOSSA scan"
         commands:
           - fossa analyze
     secrets:
       - name: foss-api-key
```

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breathe
sphinx_rtd_theme
TEMPORARY
sockmap_listen/sockhash VSOCK test_vsock_redir
usdt/basic # failing verifier due to bounds check after LLVM update
usdt/multispec # same as above

deny_namespace # not yet in bpf denylist
tc_redirect/tc_redirect_dtime # very flaky

```
lru_bug                         # not yet in bpf-next denylist

# Disabled temporarily for a crash.
# https://lore.kernel.org/bpf/c9923c1d-971d-4022-8dc8-1364e929d34c@gmail.com/
dummy_st_ops/dummy_init_ptr_arg
fexit_bpf2bpf
tailcalls
trace_ext
xdp_bpf2bpf
xdp_metadata
DOXYFILE_ENCODING      = UTF-8
PROJECT_NAME           = "libbpf"
PROJECT_NUMBER         =
PROJECT_BRIEF          =
PROJECT_LOGO           =
OUTPUT_DIRECTORY       = ./build
CREATE_SUBDIRS         = NO
ALLOW_UNICODE_NAMES    = NO
OUTPUT_LANGUAGE        = English
OUTPUT_TEXT_DIRECTION  = None
BRIEF_MEMBER_DESC      = YES
REPEAT_BRIEF           = YES
ALWAYS_DETAILED_SEC    = NO
INLINE_INHERITED_MEMB  = NO
FULL_PATH_NAMES        = YES
STRIP_FROM_PATH        =
STRIP_FROM_INC_PATH    =
SHORT_NAMES            = NO
JAVADOC_AUTOBRIEF      = NO
JAVADOC_BANNER         = NO
QT_AUTOBRIEF           = NO
MULTILINE_CPP_IS_BRIEF = NO
PYTHON_DOCSTRING       = NO
INHERIT_DOCS           = YES
SEPARATE_MEMBER_PAGES  = NO
TAB_SIZE               = 4
ALIASES                =
OPTIMIZE_OUTPUT_FOR_C  = YES
OPTIMIZE_OUTPUT_JAVA   = NO
OPTIMIZE_FOR_FORTRAN   = NO
OPTIMIZE_OUTPUT_VHDL   = NO
OPTIMIZE_OUTPUT_SLICE  = NO
EXTENSION_MAPPING      =
MARKDOWN_SUPPORT       = YES
TOC_INCLUDE_HEADINGS   = 5
AUTOLINK_SUPPORT
      = YES
BUILTIN_STL_SUPPORT    = NO
```

```
CPP_CLI_SUPPORT       = NO
SIP_SUPPORT           = NO
IDL_PROPERTY_SUPPORT   = YES
DISTRIBUTE_GROUP_DOC   = NO
GROUP_NESTED_COMPOUNDS = NO
SUBGROUPING           = YES
INLINE_GROUPED_CLASSES = NO
INLINE_SIMPLE_STRUCTS  = NO
TYPEDEF_HIDES_STRUCT   = NO
LOOKUP_CACHE_SIZE      = 0
NUM_PROC_THREADS       = 1
EXTRACT_ALL           = NO
EXTRACT_PRIVATE       = NO
EXTRACT_PRIV_VIRTUAL   = NO
EXTRACT_PACKAGE       = NO
EXTRACT_STATIC        = NO
EXTRACT_LOCAL_CLASSES  = YES
EXTRACT_LOCAL_METHODS  = NO
EXTRACT_ANON_NSPACES   = NO
RESOLVE_UNNAMED_PARAMS = YES
HIDE_UNDOC_MEMBERS     = NO
HIDE_UNDOC_CLASSES     = NO
HIDE_FRIEND_COMPOUNDS  = NO
HIDE_IN_BODY_DOCS      = NO
INTERNAL_DOCS          = NO
CASE_SENSE_NAMES       = YES
HIDE_SCOPE_NAMES       = NO
HIDE_COMPOUND_REFERENCE= NO
SHOW_INCLUDE_FILES     = YES
SHOW_GROUPED_MEMB_INC  = NO
FORCE_LOCAL_INCLUDES   = NO
INLINE_INFO           = YES
SORT_MEMBER_DOCS       = YES
SORT_BRIEF_DOCS        = NO
SORT_MEMBERS_CTORS_1ST
 = NO
SORT_GROUP_NAMES       = NO
SORT_BY_SCOPE_NAME     = NO
STRICT_PROTO_MATCHING  = NO
GENERATE_TODOLIST      = YES
GENERATE_TESTLIST      = YES
GENERATE_BUGLIST       = YES
GENERATE_DEPRECATEDLIST= YES
ENABLED_SECTIONS       =
MAX_INITIALIZER_LINES  = 30
SHOW_USED_FILES        = YES
SHOW_FILES             = YES
SHOW_NAMESPACES        = YES
```

```
FILE_VERSION_FILTER    =
LAYOUT_FILE            =
CITE_BIB_FILES         =
QUIET                  = NO
WARNINGS               = YES
WARN_IF_UNDOCUMENTED   = YES
WARN_IF_DOC_ERROR      = YES
WARN_NO_PARAMDOC       = NO
WARN_AS_ERROR          = NO
WARN_FORMAT            = "$file:$line: $text"
WARN_LOGFILE           =
INPUT                  = ../../../src
INPUT_ENCODING         = UTF-8
FILE_PATTERNS          = *.c \
                         *.h
RECURSIVE              = NO
EXCLUDE                =
EXCLUDE_SYMLINKS       = NO
EXCLUDE_PATTERNS       =
EXCLUDE_SYMBOLS        = ___*
EXAMPLE_PATH           =
EXAMPLE_PATTERNS       = *
EXAMPLE_RECURSIVE
     = NO
IMAGE_PATH             =
INPUT_FILTER           =
FILTER_PATTERNS        =
FILTER_SOURCE_FILES    = NO
FILTER_SOURCE_PATTERNS =
USE_MDFILE_AS_MAINPAGE = YES
SOURCE_BROWSER         = NO
INLINE_SOURCES         = NO
STRIP_CODE_COMMENTS    = YES
REFERENCED_BY_RELATION = NO
REFERENCES_RELATION    = NO
REFERENCES_LINK_SOURCE = YES
SOURCE_TOOLTIPS        = YES
USE_HTAGS              = NO
VERBATIM_HEADERS       = YES
ALPHABETICAL_INDEX     = YES
IGNORE_PREFIX          =
GENERATE_HTML          = NO
HTML_OUTPUT            = html
HTML_FILE_EXTENSION    = .html
HTML_HEADER            =
HTML_FOOTER            =
HTML_STYLESHEET        =
HTML_EXTRA_STYLESHEET  =
```

```
HTML_EXTRA_FILES       =
HTML_COLORSTYLE_HUE    = 220
HTML_COLORSTYLE_SAT    = 100
HTML_COLORSTYLE_GAMMA  = 80
HTML_TIMESTAMP         = NO
HTML_DYNAMIC_MENUS     = YES
HTML_DYNAMIC_SECTIONS  = NO
HTML_INDEX_NUM_ENTRIES = 100
GENERATE_DOCSET        = NO
DOCSET_FEEDNAME        = "Doxygen generated docs"
DOCSET_BUNDLE_ID
       = org.doxygen.Project
DOCSET_PUBLISHER_ID    = org.doxygen.Publisher
DOCSET_PUBLISHER_NAME  = Publisher
GENERATE_HTMLHELP      = NO
CHM_FILE               =
HHC_LOCATION           =
GENERATE_CHI           = NO
CHM_INDEX_ENCODING     =
BINARY_TOC             = NO
TOC_EXPAND             = NO
GENERATE_QHP           = NO
QCH_FILE               =
QHP_NAMESPACE          = org.doxygen.Project
QHP_VIRTUAL_FOLDER     = doc
QHP_CUST_FILTER_NAME   =
QHP_CUST_FILTER_ATTRS  =
QHP_SECT_FILTER_ATTRS  =
QHG_LOCATION           =
GENERATE_ECLIPSEHELP   = NO
ECLIPSE_DOC_ID         = org.doxygen.Project
DISABLE_INDEX          = NO
GENERATE_TREEVIEW      = NO
ENUM_VALUES_PER_LINE   = 4
TREEVIEW_WIDTH         = 250
EXT_LINKS_IN_WINDOW    = NO
HTML_FORMULA_FORMAT    = png
FORMULA_FONTSIZE       = 10
FORMULA_TRANSPARENT    = YES
FORMULA_MACROFILE      =
USE_MATHJAX            = NO
MATHJAX_FORMAT         = HTML-CSS
MATHJAX_RELPATH        = https://cdn.jsdelivr.net/npm/mathjax@2
MATHJAX_EXTENSIONS
  =
MATHJAX_CODEFILE       =
SEARCHENGINE           = YES
SERVER_BASED_SEARCH    = NO
```

```
EXTERNAL_SEARCH        = NO
SEARCHENGINE_URL       =
SEARCHDATA_FILE        = searchdata.xml
EXTERNAL_SEARCH_ID     =
EXTRA_SEARCH_MAPPINGS  =
GENERATE_LATEX         = NO
LATEX_OUTPUT           = latex
LATEX_CMD_NAME         =
MAKEINDEX_CMD_NAME     = makeindex
LATEX_MAKEINDEX_CMD    = makeindex
COMPACT_LATEX          = NO
PAPER_TYPE             = a4
EXTRA_PACKAGES         =
LATEX_HEADER           =
LATEX_FOOTER           =
LATEX_EXTRA_STYLESHEET =
LATEX_EXTRA_FILES      =
PDF_HYPERLINKS         = YES
USE_PDFLATEX           = YES
LATEX_BATCHMODE        = NO
LATEX_HIDE_INDICES     = NO
LATEX_SOURCE_CODE      = NO
LATEX_BIB_STYLE        = plain
LATEX_TIMESTAMP        = NO
LATEX_EMOJI_DIRECTORY  =
GENERATE_RTF           = NO
RTF_OUTPUT             = rtf
COMPACT_RTF            = NO
RTF_HYPERLINKS         = NO
RTF_STYLESHEET_FILE    =
RTF_EXTENSIONS_FILE    =
RTF_SOURCE_CODE        = NO
GENERATE_MAN
   = NO
MAN_OUTPUT             = man
MAN_EXTENSION          = .3
MAN_SUBDIR             =
MAN_LINKS              = NO
GENERATE_XML           = YES
XML_OUTPUT             = xml
XML_PROGRAMLISTING     = YES
XML_NS_MEMB_FILE_SCOPE = NO
GENERATE_DOCBOOK       = NO
DOCBOOK_OUTPUT         = docbook
DOCBOOK_PROGRAMLISTING = NO
GENERATE_AUTOGEN_DEF   = NO
GENERATE_PERLMOD       = NO
PERLMOD_LATEX          = NO
```

```
PERLMOD_PRETTY         = YES
PERLMOD_MAKEVAR_PREFIX =
ENABLE_PREPROCESSING   = YES
MACRO_EXPANSION        = NO
EXPAND_ONLY_PREDEF     = YES
SEARCH_INCLUDES        = YES
INCLUDE_PATH           =
INCLUDE_FILE_PATTERNS  =
PREDEFINED             =
EXPAND_AS_DEFINED      =
SKIP_FUNCTION_MACROS   = NO
TAGFILES               =
GENERATE_TAGFILE       =
ALLEXTERNALS           = NO
EXTERNAL_GROUPS        = YES
EXTERNAL_PAGES         = YES
CLASS_DIAGRAMS         = YES
DIA_PATH               =
HIDE_UNDOC_RELATIONS   = YES
HAVE_DOT               = NO
DOT_NUM_THREADS        = 0
DOT_FONTNAME
 = Helvetica
DOT_FONTSIZE           = 10
DOT_FONTPATH           =
CLASS_GRAPH            = YES
COLLABORATION_GRAPH    = YES
GROUP_GRAPHS           = YES
UML_LOOK               = NO
UML_LIMIT_NUM_FIELDS   = 10
DOT_UML_DETAILS        = NO
DOT_WRAP_THRESHOLD     = 17
TEMPLATE_RELATIONS     = NO
INCLUDE_GRAPH          = YES
INCLUDED_BY_GRAPH      = YES
CALL_GRAPH             = NO
CALLER_GRAPH           = NO
GRAPHICAL_HIERARCHY    = YES
DIRECTORY_GRAPH        = YES
DOT_IMAGE_FORMAT       = png
INTERACTIVE_SVG        = NO
DOT_PATH               =
DOTFILE_DIRS           =
MSCFILE_DIRS           =
DIAFILE_DIRS           =
PLANTUML_JAR_PATH      =
PLANTUML_CFG_FILE      =
PLANTUML_INCLUDE_PATH  =
```

```
DOT_GRAPH_MAX_NODES    = 50
MAX_DOT_GRAPH_DEPTH    = 0
DOT_TRANSPARENT        = NO
DOT_MULTI_TARGETS      = NO
GENERATE_LEGEND        = YES
DOT_CLEANUP            = YES
009367099eb61a4fc2af44d4eb06b6b4de7de6db
LIBBPF_0.0.1 {
 global:
  bpf_btf_get_fd_by_id;
  bpf_map__btf_key_type_id;
  bpf_map__btf_value_type_id;
  bpf_map__fd;
  bpf_map__name;
  bpf_map__pin;
  bpf_map__reuse_fd;
  bpf_map__set_ifindex;
  bpf_map__set_inner_map_fd;
  bpf_map__unpin;
  bpf_map_delete_elem;
  bpf_map_get_fd_by_id;
  bpf_map_get_next_id;
  bpf_map_get_next_key;
  bpf_map_lookup_and_delete_elem;
  bpf_map_lookup_elem;
  bpf_map_update_elem;
  bpf_obj_get;
  bpf_obj_get_info_by_fd;
  bpf_obj_pin;
  bpf_object__btf_fd;
  bpf_object__close;
  bpf_object__find_map_by_name;
  bpf_object__kversion;
  bpf_object__load;
  bpf_object__name;
  bpf_object__open;
  bpf_object__pin;
  bpf_object__pin_maps;
  bpf_object__pin_programs;
  bpf_object__unpin_maps;
  bpf_object__unpin_programs;
  bpf_prog_attach;
  bpf_prog_detach;
  bpf_prog_detach2;
  bpf_prog_get_fd_by_id;
  bpf_prog_get_next_id;
  bpf_prog_query;
  bpf_program__fd;
```

```
  bpf_program__pin;
  bpf_program__set_expected_attach_type;
  bpf_program__set_ifindex;
  bpf_program__set_type;
  bpf_program__unload;
  bpf_program__unpin;
  bpf_prog_linfo__free;
  bpf_prog_linfo__new;
  bpf_prog_linfo__lfind_addr_func;
  bpf_prog_linfo__lfind;
  bpf_raw_tracepoint_open;
  bpf_task_fd_query;
  btf__fd;
  btf__find_by_name;
  btf__free;
  btf__name_by_offset;
  btf__new;
  btf__resolve_size;
  btf__resolve_type;
  btf__type_by_id;
  libbpf_attach_type_by_name;
  libbpf_get_error;
  libbpf_prog_type_by_name;
  libbpf_set_print;
  libbpf_strerror;
 local:
  *;
};

LIBBPF_0.0.2
 {
 global:
  bpf_map_lookup_elem_flags;
  bpf_object__btf;
  bpf_object__find_map_fd_by_name;
  btf__get_raw_data;
  btf_ext__free;
  btf_ext__get_raw_data;
  btf_ext__new;
} LIBBPF_0.0.1;

LIBBPF_0.0.3 {
 global:
  bpf_map__is_internal;
  bpf_map_freeze;
} LIBBPF_0.0.2;

LIBBPF_0.0.4 {
```

```
 global:
  bpf_link__destroy;
  bpf_program__attach_kprobe;
  bpf_program__attach_perf_event;
  bpf_program__attach_raw_tracepoint;
  bpf_program__attach_tracepoint;
  bpf_program__attach_uprobe;
  btf_dump__dump_type;
  btf_dump__free;
  btf__parse_elf;
  libbpf_num_possible_cpus;
  perf_buffer__free;
  perf_buffer__poll;
}
 LIBBPF_0.0.3;

LIBBPF_0.0.5 {
 global:
  bpf_btf_get_next_id;
} LIBBPF_0.0.4;

LIBBPF_0.0.6 {
 global:
  bpf_map__get_pin_path;
  bpf_map__is_pinned;
  bpf_map__set_pin_path;
  bpf_object__open_file;
  bpf_object__open_mem;
  bpf_program__attach_trace;
  bpf_program__get_expected_attach_type;
  bpf_program__get_type;
  btf__find_by_name_kind;
  libbpf_find_vmlinux_btf_id;
} LIBBPF_0.0.5;

LIBBPF_0.0.7 {
 global:
  btf_dump__emit_type_decl;
  bpf_link__disconnect;
  bpf_map__attach_struct_ops;
  bpf_map_delete_batch;
  bpf_map_lookup_and_delete_batch;
  bpf_map_lookup_batch;
  bpf_map_update_batch;
  bpf_object__find_program_by_name;
  bpf_object__attach_skeleton;
  bpf_object__destroy_skeleton;
  bpf_object__detach_skeleton;
```

```
  bpf_object__load_skeleton;
  bpf_object__open_skeleton;
  bpf_program__attach;
  bpf_program__name;
  btf__align_of;
  libbpf_find_kernel_btf;
}
 LIBBPF_0.0.6;

LIBBPF_0.0.8 {
 global:
  bpf_link__fd;
  bpf_link__open;
  bpf_link__pin;
  bpf_link__pin_path;
  bpf_link__unpin;
  bpf_link__update_program;
  bpf_link_create;
  bpf_link_update;
  bpf_map__set_initial_value;
  bpf_prog_attach_opts;
  bpf_program__attach_cgroup;
  bpf_program__attach_lsm;
  bpf_program__set_attach_target;
} LIBBPF_0.0.7;

LIBBPF_0.0.9 {
 global:
  bpf_enable_stats;
  bpf_iter_create;
  bpf_link_get_fd_by_id;
  bpf_link_get_next_id;
  bpf_program__attach_iter;
  bpf_program__attach_netns;
  perf_buffer__consume;
  ring_buffer__add;
  ring_buffer__consume;
  ring_buffer__free;
  ring_buffer__new;
  ring_buffer__poll;
} LIBBPF_0.0.8;

LIBBPF_0.1.0 {
 global:
  bpf_link__detach;
  bpf_link_detach;
  bpf_map__ifindex;
  bpf_map__key_size;
```

```
  bpf_map__map_flags;
  bpf_map__max_entries;
  bpf_map__numa_node;
  bpf_map__set_key_size;
  bpf_map__set_map_flags;
  bpf_map__set_max_entries;
  bpf_map__set_numa_node;
  bpf_map__set_type;
  bpf_map__set_value_size;
  bpf_map__type;
  bpf_map__value_size;
  bpf_program__attach_xdp;
  bpf_program__autoload;
  bpf_program__set_autoload;
  btf__parse;
  btf__parse_raw;
  btf__pointer_size;
  btf__set_fd;
  btf__set_pointer_size;
}
 LIBBPF_0.0.9;

LIBBPF_0.2.0 {
 global:
  bpf_prog_bind_map;
  bpf_prog_test_run_opts;
  bpf_program__attach_freplace;
  bpf_program__section_name;
  btf__add_array;
  btf__add_const;
  btf__add_enum;
  btf__add_enum_value;
  btf__add_datasec;
  btf__add_datasec_var_info;
  btf__add_field;
  btf__add_func;
  btf__add_func_param;
  btf__add_func_proto;
  btf__add_fwd;
  btf__add_int;
  btf__add_ptr;
  btf__add_restrict;
  btf__add_str;
  btf__add_struct;
  btf__add_typedef;
  btf__add_union;
  btf__add_var;
  btf__add_volatile;
```

```
  btf__endianness;
  btf__find_str;
  btf__new_empty;
  btf__set_endianness;
  btf__str_by_offset;
  perf_buffer__buffer_cnt;
  perf_buffer__buffer_fd;
  perf_buffer__epoll_fd;
  perf_buffer__consume_buffer;
} LIBBPF_0.1.0;

LIBBPF_0.3.0 {
 global:
  btf__base_btf;
  btf__parse_elf_split;
  btf__parse_raw_split;
  btf__parse_split;
  btf__new_empty_split;
  ring_buffer__epoll_fd;
}
 LIBBPF_0.2.0;

LIBBPF_0.4.0 {
 global:
  btf__add_float;
  btf__add_type;
  bpf_linker__add_file;
  bpf_linker__finalize;
  bpf_linker__free;
  bpf_linker__new;
  bpf_map__inner_map;
  bpf_object__set_kversion;
  bpf_tc_attach;
  bpf_tc_detach;
  bpf_tc_hook_create;
  bpf_tc_hook_destroy;
  bpf_tc_query;
} LIBBPF_0.3.0;

LIBBPF_0.5.0 {
 global:
  bpf_map__initial_value;
  bpf_map__pin_path;
  bpf_map_lookup_and_delete_elem_flags;
  bpf_program__attach_kprobe_opts;
  bpf_program__attach_perf_event_opts;
  bpf_program__attach_tracepoint_opts;
  bpf_program__attach_uprobe_opts;
```

```
  bpf_object__gen_loader;
  btf__load_from_kernel_by_id;
  btf__load_from_kernel_by_id_split;
  btf__load_into_kernel;
  btf__load_module_btf;
  btf__load_vmlinux_btf;
  btf_dump__dump_type_data;
  libbpf_set_strict_mode;
} LIBBPF_0.4.0;

LIBBPF_0.6.0 {
 global:
  bpf_map__map_extra;
  bpf_map__set_map_extra;
  bpf_map_create;
  bpf_object__next_map;
  bpf_object__next_program;
  bpf_object__prev_map;
  bpf_object__prev_program;
  bpf_prog_load;
  bpf_program__flags;
  bpf_program__insn_cnt;
  bpf_program__insns;
  bpf_program__set_flags;
  btf__add_btf;
  btf__add_decl_tag;
  btf__add_type_tag;
  btf__dedup;
  btf__raw_data;
  btf__type_cnt;
  btf_dump__new;
  libbpf_major_version;
  libbpf_minor_version;
  libbpf_version_string;
  perf_buffer__new;
  perf_buffer__new_raw;
}
 LIBBPF_0.5.0;

LIBBPF_0.7.0 {
 global:
  bpf_btf_load;
  bpf_program__expected_attach_type;
  bpf_program__log_buf;
  bpf_program__log_level;
  bpf_program__set_log_buf;
  bpf_program__set_log_level;
  bpf_program__type;
```

```
  bpf_xdp_attach;
  bpf_xdp_detach;
  bpf_xdp_query;
  bpf_xdp_query_id;
  libbpf_probe_bpf_helper;
  libbpf_probe_bpf_map_type;
  libbpf_probe_bpf_prog_type;
  libbpf_set_memlock_rlim;
} LIBBPF_0.6.0;

LIBBPF_0.8.0 {
 global:
  bpf_map__autocreate;
  bpf_map__get_next_key;
  bpf_map__delete_elem;
  bpf_map__lookup_and_delete_elem;
  bpf_map__lookup_elem;
  bpf_map__set_autocreate;
  bpf_map__update_elem;
  bpf_map_delete_elem_flags;
  bpf_object__destroy_subskeleton;
  bpf_object__open_subskeleton;
  bpf_program__attach_kprobe_multi_opts;
  bpf_program__attach_trace_opts;
  bpf_program__attach_usdt;
  bpf_program__set_insns;
  libbpf_register_prog_handler;
  libbpf_unregister_prog_handler;
}
 LIBBPF_0.7.0;

LIBBPF_1.0.0 {
 global:
  bpf_obj_get_opts;
  bpf_prog_query_opts;
  bpf_program__attach_ksyscall;
  bpf_program__autoattach;
  bpf_program__set_autoattach;
  btf__add_enum64;
  btf__add_enum64_value;
  libbpf_bpf_attach_type_str;
  libbpf_bpf_link_type_str;
  libbpf_bpf_map_type_str;
  libbpf_bpf_prog_type_str;
  perf_buffer__buffer;
} LIBBPF_0.8.0;

LIBBPF_1.1.0 {
```

```
 global:
  bpf_btf_get_fd_by_id_opts;
  bpf_link_get_fd_by_id_opts;
  bpf_map_get_fd_by_id_opts;
  bpf_prog_get_fd_by_id_opts;
  user_ring_buffer__discard;
  user_ring_buffer__free;
  user_ring_buffer__new;
  user_ring_buffer__reserve;
  user_ring_buffer__reserve_blocking;
  user_ring_buffer__submit;
}
 LIBBPF_1.0.0;

LIBBPF_1.2.0 {
 global:
  bpf_btf_get_info_by_fd;
  bpf_link__update_map;
  bpf_link_get_info_by_fd;
  bpf_map_get_info_by_fd;
  bpf_prog_get_info_by_fd;
} LIBBPF_1.1.0;

LIBBPF_1.3.0 {
 global:
  bpf_obj_pin_opts;
  bpf_object__unpin;
  bpf_prog_detach_opts;
  bpf_program__attach_netfilter;
  bpf_program__attach_netkit;
  bpf_program__attach_tcx;
  bpf_program__attach_uprobe_multi;
  ring__avail_data_size;
  ring__consume;
  ring__consumer_pos;
  ring__map_fd;
  ring__producer_pos;
  ring__size;
  ring_buffer__ring;
} LIBBPF_1.2.0;

LIBBPF_1.4.0 {
 global:
  bpf_program__attach_raw_tracepoint_opts;
  bpf_raw_tracepoint_open_opts;
  bpf_token_create;
  btf__new_split;
  btf_ext__raw_data;
```

} LIBBPF_1.3.0;

LIBBPF_1.5.0 {
 global:
  bpf_program__attach_sockmap;
  ring__consume_n;
  ring_buffer__consume_n;
} LIBBPF_1.4.0;

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limitations under the License.
decap_sanity # weird failure with decap_sanity_ns netns already existing, TBD
empty_skb # waiting the fix in bpf tree to make it to bpf-next
bpf_nf/tc-bpf-ct # test consistently failing on x86: https://github.com/libbpf/libbpf/pull/698#issuecomment-1590341200
bpf_nf/xdp-ct # test consistently failing on x86: https://github.com/libbpf/libbpf/pull/698#issuecomment-1590341200
kprobe_multi_bench_attach # suspected to cause crashes in CI
find_vma # test consistently fails on latest kernel, see https://github.com/libbpf/libbpf/issues/754 for details
bpf_cookie/perf_event
send_signal/send_signal_nmi
send_signal/send_signal_nmi_thread

lwt_reroute # crashes kernel, fix pending upstream
tc_links_ingress # fails, same fix is pending upstream
tc_redirect # enough is enough, banned for life for flakiness
Format: http://dep.debian.net/deps/dep5
Upstream-Name: calico
Source: http://github.com/projectcalico/felix

Files: *
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The sample BIRD configuration in this directory is distributed under
GPLv3. See the file COPYING-v3 for details.
<picture>
<source media="(prefers-color-scheme: dark)" srcset="assets/libbpf-logo-sideways-darkbg.png" width="40%">
<img src="assets/libbpf-logo-sideways.png" width="40%">
</picture>

Libbpf sync
==========

Libbpf *authoritative source code* is developed as part of [bpf-next Linux source tree](https://kernel.googlesource.com/pub/scm/linux/kernel/git/bpf/bpf-next) under `tools/lib/bpf` subdirectory and is periodically synced to Github.

Most of the mundane mechanical things like bpf and bpf-next tree merge, Git history transformation, cherry-picking relevant commits, re-generating auto-generated headers, etc. are taken care by [sync-kernel.sh script](https://github.com/libbpf/libbpf/blob/master/scripts/sync-kernel.sh). But occasionally human needs to do few extra things to make everything work nicely.

This document goes over the process of syncing libbpf sources from Linux repo to this Github repository. Feel free to contribute fixes and additions if you run into new problems not
outlined here.

Setup expectations

Sync script has particular expectation of upstream Linux repo setup. It expects that current HEAD of that repo points to bpf-next's master branch and that there is a separate local branch pointing to bpf tree's master branch. This is important, as the script will automatically merge their histories for the purpose of libbpf sync.

Below, we assume that Linux repo is located at `~/linux`, it's current head is at latest `bpf-next/master`, and libbpf's Github repo is located at `~/libbpf`, checked out to latest commit on `master` branch. It doesn't matter

from where to run `sync-kernel.sh` script, but we'll be running it from inside
`~/libbpf`.

```
$ cd ~/linux && git remote -v | grep -E '^(bpf|bpf-next)'
bpf     https://git.kernel.org/pub/scm/linux/kernel/git/bpf/bpf.git (fetch)
bpf     ssh://git@gitolite.kernel.org/pub/scm/linux/kernel/git/bpf/bpf.git
(push)
bpf-next
https://git.kernel.org/pub/scm/linux/kernel/git/bpf/bpf-next.git
 (fetch)
bpf-next
ssh://git@gitolite.kernel.org/pub/scm/linux/kernel/git/bpf/bpf-next.git (push)
$ git branch -vv | grep -E '^? (master|bpf-master)'
* bpf-master                    2d311f480b52 [bpf/master] riscv, bpf: Fix patch_text implicit declaration
 master                         c8ee37bde402 [bpf-next/master] libbpf: Fix bpf_xdp_query() in old kernels
$ git checkout bpf-master && git pull && git checkout master && git pull
...
$ git log --oneline -n1
c8ee37bde402 (HEAD -> master, bpf-next/master) libbpf: Fix bpf_xdp_query() in old kernels
$ cd ~/libbpf && git checkout master && git pull
Your branch is up to date with 'libbpf/master'.
Already up to date.
```

Running setup script

First step is to always run `sync-kernel.sh` script. It expects three arguments:

```
$ scripts/sync-kernel.sh <libbpf-repo> <kernel-repo> <bpf-branch>
```

Note, that we'll store script's entire output in `/tmp/libbpf-sync.txt` and
put it into PR summary later
 on. **Please store scripts output and include it
in PR summary for others to check for anything unexpected and suspicious.**

```
$ scripts/sync-kernel.sh ~/libbpf ~/linux bpf-master | tee /tmp/libbpf-sync.txt
Dumping existing libbpf commit signatures...
WORKDIR:        /home/andriin/libbpf
LINUX REPO:     /home/andriin/linux
LIBBPF REPO:    /home/andriin/libbpf
...
```

Most of the time this will go very uneventful. One expected case when sync script might require user intervention is if `bpf` tree has some libbpf fixes, which is nowadays not a very frequent occurence. But if that happens, script will show you a diff between expected state as of latest bpf-next and synced Github repo state. And will ask if these changes look good. Please use your best judgement to verify that differences are indeed from expected `bpf` tree fixes. E.g., it might look like below:

```
Comparing list of files...
Comparing file contents...
--- /home/andriin/linux/include/uapi/linux/netdev.h     2023-02-27
 16:54:42.270583372 -0800
+++ /home/andriin/libbpf/include/uapi/linux/netdev.h    2023-02-27 16:54:34.615530796 -0800
@@ -19,7 +19,7 @@
 * @NETDEV_XDP_ACT_XSK_ZEROCOPY: This feature informs if netdev supports AF_XDP
 *   in zero copy mode.
 * @NETDEV_XDP_ACT_HW_OFFLOAD: This feature informs if netdev supports XDP hw
- *   oflloading.
+ *   offloading.
 * @NETDEV_XDP_ACT_RX_SG: This feature informs if netdev implements non-linear
 *   XDP buffer support in the driver napi callback.
 * @NETDEV_XDP_ACT_NDO_XMIT_SG: This feature informs if netdev implements
/home/andriin/linux/include/uapi/linux/netdev.h and /home/andriin/libbpf/include/uapi/linux/netdev.h are different!
Unfortunately, there are some inconsistencies, please double check.
Does everything look good? [y/N]:
```

If it looks sensible and expected, type `y` and script will proceed.

If sync is successful, your `~/linux` repo will be left in original state on the original HEAD commit. `~/libbpf` repo will now be on a new branch, named `libbpf-sync-<timestamp>` (e.g., `libbpf-sync-2023-02-28T00-53-40.072Z`).

Push this branch into your fork of `libbpf/libbpf` Github repo and create a PR:

```
$ git push --set-upstream origin libbpf-sync-2023-02-28T00-53-40.072Z
Enumerating objects: 130, done.
Counting objects: 100% (115/115), done.
Delta compression using up to 80 threads
Compressing objects: 100% (28/28), done.
Writing objects: 100% (32/32), 5.57 KiB | 1.86 MiB/s, done.
Total 32 (delta 21), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (21/21), completed with 9 local objects.
remote:
remote: Create a pull request for 'libbpf-sync-2023-02-28T00-53-40.072Z' on GitHub by visiting:
```

```
remote:      https://github.com/anakryiko/libbpf/pull/new/libbpf-sync-2023-02-28T00-53-40.072Z
remote:
To github.com:anakryiko/libbpf.git
* [new branch]              libbpf-sync-2023-02-28T00-53-40.072Z -> libbpf-sync-2023-02-28T00-53-40.072Z
Branch 'libbpf-sync-2023-02-28T00-53-40.072Z' set up to track
 remote branch 'libbpf-sync-2023-02-28T00-53-40.072Z' from 'origin'.
```

**Please, adjust PR name to have a properly looking timestamp. Libbpf
maintainers will be very thankful for that!**

By default Github will turn above branch name into PR with subject "Libbpf sync
2023 02 28 t00 53 40.072 z". Please fix this into a proper timestamp, e.g.:
"Libbpf sync 2023-02-28T00:53:40.072Z". Thank you!

**Please don't forget to paste contents of /tmp/libbpf-sync.txt into PR
summary!**

Once PR is created, libbpf CI will run a bunch of tests to check that
everything is good. In simple cases that would be all you'd need to do. In more
complicated cases some extra adjustments might be necessary.

Please, keep naming and style consistent. Prefix CI-related fixes with `ci: `
prefix. If you had to modify sync script, prefix it with `sync: `. Also make
sure that each such commit has `Signed-off-by: Your Full Name <your@email.com>`,
just like you'd do that for Linux upstream patch. Libbpf closely
 follows kernel
conventions and styling, so please help maintaining that.

Including new sources

If entirely new source files (typically `*.c`) were added to the library in the
kernel repository, it may be necessary to add these to the build system
manually (you may notice linker errors otherwise), because the script cannot
handle such changes automatically. To that end, edit `src/Makefile` as
necessary. Commit
[c2495832ced4](https://github.com/libbpf/libbpf/commit/c2495832ced4239bcd376b9954db38a6addd89ca)
is an example of how to go about doing that.

Similarly, if new public API header files were added, the `Makefile` will need
to be adjusted as well.

Updating allow/deny lists

Libbpf CI intentionally runs a subset of latest BPF selftests on old kernel
(4.9 and 5.5, currently). It happens from time to time that some tests that

previously were successfully running on old kernels now don't, typically due to
reliance on some freshly added
 kernel feature. It might look something like this in [CI
logs](https://github.com/libbpf/libbpf/actions/runs/4206303272/jobs/7299609578#step:4:2733):

```
 All error logs:
 serial_test_xdp_info:FAIL:get_xdp_none errno=2
 #283     xdp_info:FAIL
 Summary: 49/166 PASSED, 5 SKIPPED, 1 FAILED
```

In such case we can either work with upstream to fix test to be compatible with
old kernels, or we'll have to add a test into a denylist (or remove it from
allowlist, like was [done](https://github.com/libbpf/libbpf/commit/ea284299025bf85b85b4923191de6463cd43ccd6)
for the case above).

```
$ find . -name '*LIST*'
./ci/vmtest/configs/ALLOWLIST-4.9.0
./ci/vmtest/configs/DENYLIST-5.5.0
./ci/vmtest/configs/DENYLIST-latest.s390x
./ci/vmtest/configs/DENYLIST-latest
./ci/vmtest/configs/ALLOWLIST-5.5.0
```

Please determine which tests need to be added/removed from which list. And then
add that as a separate commit. **Please keep using the same branch name, so
that the same PR can be updated.** There
 is no need to open new PRs for each
such fix.

Regenerating vmlinux.h header

To compile latest BPF selftests against old kernels, we check in pre-generated
[vmlinux.h](https://github.com/libbpf/libbpf/blob/master/.github/actions/build-selftests/vmlinux.h)
header file, located at `.github/actions/build-selftests/vmlinux.h`, which
contains type definitions from latest upstream kernel. When after libbpf sync
upstream BPF selftests require new kernel types, we'd need to regenerate
`vmlinux.h` and check it in as well.

This will looks something like this in [CI
logs](https://github.com/libbpf/libbpf/actions/runs/4198939244/jobs/7283214243#step:4:1903):

```
 In file included from progs/test_spin_lock_fail.c:5:
 /home/runner/work/libbpf/libbpf/.kernel/tools/testing/selftests/bpf/bpf_experimental.h:73:53: error: declaration of
```

```
'struct bpf_rb_root' will not be visible outside of this function [-Werror,-Wvisibility]
 extern struct bpf_rb_node *bpf_rbtree_remove(struct
 bpf_rb_root *root,
                                              ^
 /home/runner/work/libbpf/libbpf/.kernel/tools/testing/selftests/bpf/bpf_experimental.h:81:35: error: declaration of
'struct bpf_rb_root' will not be visible outside of this function [-Werror,-Wvisibility]
 extern void bpf_rbtree_add(struct bpf_rb_root *root, struct bpf_rb_node *node,
                                 ^
 /home/runner/work/libbpf/libbpf/.kernel/tools/testing/selftests/bpf/bpf_experimental.h:90:52: error: declaration of
'struct bpf_rb_root' will not be visible outside of this function [-Werror,-Wvisibility]
 extern struct bpf_rb_node *bpf_rbtree_first(struct bpf_rb_root *root) __ksym;
                                             ^
 3 errors generated.
 make: *** [Makefile:572:
/home/runner/work/libbpf/libbpf/.kernel/tools/testing/selftests/bpf/test_spin_lock_fail.bpf.o] Error 1
 make: *** Waiting for unfinished jobs....
 Error: Process completed with exit code 2.
```

You'll
 need to build latest upstream kernel from `bpf-next` tree, using BPF
selftest configs. Concat arch-agnostic and arch-specific configs, build kernel,
then use bpftool to dump `vmlinux.h`:

```
$ cd ~/linux
$ cat tools/testing/selftests/bpf/config \
  tools/testing/selftests/bpf/config.x86_64 > .config
$ make -j$(nproc) olddefconfig all
...
$ bpftool btf dump file ~/linux/vmlinux format c > ~/libbpf/.github/actions/build-selftests/vmlinux.h
$ cd ~/libbpf && git add . && git commit -s
```

Check in generated `vmlinux.h`, don't forget to use `ci: ` commit prefix, add
it on top of sync commits. Push to Github and let libbpf CI do the checking for
you. See [this commit](https://github.com/libbpf/libbpf/commit/34212c94a64df8eeb1dd5d064630a65e1dfd4c20)
for reference.

Troubleshooting

If something goes wrong and sync script exits early or is terminated early by
user, you might end up with `~/linux` repo on temporary sync-related branch.
Don't worry, though, sync script never
 destroys repo state, it follows
"copy-on-write" philosophy and creates new branches where necessary. So it's
very easy to restore previous state. So if anything goes wrong, it's easy to

start fresh:

```
$ git branch | grep -E 'libbpf-.*Z'
 libbpf-baseline-2023-02-28T00-43-35.146Z
 libbpf-bpf-baseline-2023-02-28T00-43-35.146Z
 libbpf-bpf-tip-2023-02-28T00-43-35.146Z
 libbpf-squash-base-2023-02-28T00-43-35.146Z
* libbpf-squash-tip-2023-02-28T00-43-35.146Z
$ git cherry-pick --abort
$ git checkout master && git branch | grep -E 'libbpf-.*Z' | xargs git br -D
Switched to branch 'master'
Your branch is up to date with 'bpf-next/master'.
Deleted branch libbpf-baseline-2023-02-28T00-43-35.146Z (was 951bce29c898).
Deleted branch libbpf-bpf-baseline-2023-02-28T00-43-35.146Z (was 3a70e0d4c9d7).
Deleted branch libbpf-bpf-tip-2023-02-28T00-43-35.146Z (was 2d311f480b52).
Deleted branch libbpf-squash-base-2023-02-28T00-43-35.146Z (was 957f109ef883).
Deleted branch libbpf-squash-tip-2023-02-28T00-43-35.146Z
 (was be66130d2339).
Deleted branch libbpf-tip-2023-02-28T00-43-35.146Z (was 2d311f480b52).
```

You might need to do the same for your `~/libbpf` repo sometimes, depending at which stage sync script was terminated.

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1.5389 k8s-io-client-go 0.30.11

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1.5394 kubernetes-apiserver-extensions 0.30.11

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1.5395 k8s-io-apimachinery 0.32.3

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
}
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package spec

import "testing"

```
func TestIntegrationLicense(t *testing.T) {
 license := License{Name: "the name", URL: "the url"}
 const licenseJSON = `{"name":"the name","url":"the url"}`
 const licenseYAML = "name: the name\nurl: the url\n"

 assertSerializeJSON(t, license, licenseJSON)
 assertParsesJSON(t, licenseJSON, license)
}
```

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1.5408 k8s.io/ingress-nginx 1.12.1

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
```

SevDeprecated = "deprecated"
// deprecated, but still completely functional
SevIgnored = "ignored" // if included in the corefile, it will be ignored by CoreDNS
SevRemoved = "removed" // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
SevNewDefault = "newdefault" // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

// The following statuses are used for selecting/filtering notifications
SevAll = "all" // show all statuses
)
Prometheus instrumentation library for Go applications
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==========
The common/types/pb/equal.go modification of proto.Equal logic
==========
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//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
}
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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==========

The common/types/pb/equal.go modification of proto.Equal logic

==========

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Gocheck - A rich testing framework for Go

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
```

```
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
 SevNewDefault  = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not
present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

 // The following statuses are used for selecting/filtering notifications
 SevAll = "all" // show all statuses
)
```

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==========
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 Name string `json:"name,omitempty"`
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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==========
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==========
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```
package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
 SevNewDefault  = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not
present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool
```

// The following statuses are used for selecting/filtering notifications
SevAll = "all" // show all statuses
)
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==========
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==========
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 URL string `json:"url,omitempty"`
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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==========
The common/types/pb/equal.go modification of proto.Equal logic
==========
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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localtime.go, localtime_test.go:

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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
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* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)

```
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather
 lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*     as needed. This means that data must always be copied to create
*     the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*     Fix is simple: make large buffers large enough to hold entire
*     SDU, and leave <small_buffer_data> bytes empty at the start. Then
*     copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*     buffers. This is done by 2 things:
*       1) skb->destructor / skb->atm.recycle_buffer
*           combined, allow nicstar_free_rx_skb to be called to
*           recycle large data buffers
*       2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*     details.
*
*
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* M. Welsh, 6 July 1996
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I. Bogaert, "Iteration-Free Computation of Gauss-Legendre Quadrature Nodes and Weights",
to be published in the SIAM Journal of Scientific Computing.

The main features of this software are:
- Speed: due to the simple formulas and the O(1) complexity computation of individual Gauss-Legendre quadrature nodes and weights. This makes it compatible with parallel computing paradigms.
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1.5430 x-crypto v0.16.1-0.20231129163542-152cdb1503eb

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1.5431 x-crypto v0.11.1-0.20230711161743-2e82bdd1719d

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1.5432 safer-buffer 2.1.2

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1.5433 balanced-match 1.0.0

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1.5434 os-tmpdir 1.0.2

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1.5435 safe-buffer 5.1.2

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1.5436 azure-sdk-for-go-sdk-azidentity v1.3.1

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1.5437 google-cloud-go-datastore v1.1.0

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package cloud

import (
 "bytes"
 "io/ioutil"
 "os"
 "path/filepath"
 "strings"
 "testing"
)

var sentinels = []string{
 "Copyright",
 "Google",
 `Licensed under the Apache License, Version 2.0 (the "License");`,
}

func TestLicense(t *testing.T) {
 t.Parallel()
 err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
  if err != nil {
   return err
  }

  if ext := filepath.Ext(path);
```

```
ext != ".go" && ext != ".proto" {
 return nil
 }
 if strings.HasSuffix(path, ".pb.go") {
  // .pb.go files are generated from the proto files.
  // .proto files must have license headers.
  return nil
 }
 if path == "bigtable/cmd/cbt/cbtdoc.go" {
  // Automatically generated.
  return nil
 }
 if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
  // BSD license, which is compatible, is embedded in the file.
  return nil
 }
 src, err := ioutil.ReadFile(path)
 if err != nil {
  return nil
 }
 src = src[:300] // Ensure all of the sentinel values are at the top of the file.

 // Find license
 for _, sentinel := range sentinels {
  if !bytes.Contains(src, []byte(sentinel)) {
   t.Errorf("%v: license header not present. want %q", path, sentinel)
   return nil
  }
 }

 return nil
})
if err != nil {
 t.Fatal(err)
}
}
```

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```
package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
```

```
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
 SevNewDefault  = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not
present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

 // The following statuses are used for selecting/filtering notifications
 SevAll = "all" // show all statuses
)
```

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==========
The common/types/pb/equal.go modification of proto.Equal logic
==========
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package spec

// License information for the exposed API.

```
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
```
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==========
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1.5442 prometheus-operator-pkg-client v0.79.2

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1.5446 grpc-go v1.24.0

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1.5462 lua v2.1.0

1.5462.1 Available under license :

==========
LuaJIT -- a Just-In-Time Compiler for Lua. https://luajit.org/

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==========

1.5463 brace-expansion 1.1.11

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1.5464 once 1.4.0

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1.5465 path-is-absolute 1.0.1

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1.5466 mitchellh-mapstructure v1.5.1-0.20220423185008-bf980b35cac4

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1.5467 aws-sdk-go-v2 v1.16.2

1.5467.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {
```

```
 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
 nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
```

```
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string
```

```
 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
```

```
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
```

```
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
```

```
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
```

```
 }
 if err = addRetryMiddlewares(stack,
 options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil
 {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
```

```
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
     - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
       with:
         python-version: ${{ matrix.python-version }}
     # ScanCode
     - name: Self-configure scancode
       working-directory: ./scancode-toolkit
       run: ./scancode --help
     - name: Run Scan code on target
       run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
```

```
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
```

```
the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange
```

```
 //
 Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
```

```
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
```

```
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}
```

```
type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
 middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack,
 options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}
```

AWS SDK for Go

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```
{
   "smithy": "1.0",
   "metadata": {
       "suppressions": [
           {
               "id": "HttpMethodSemantics",
               "namespace": "*"
           },
           {
               "id": "HttpResponseCodeSemantics",
               "namespace": "*"
           },
           {
               "id": "PaginatedTrait",
               "namespace": "*"
           },
           {
               "id": "HttpHeaderTrait",
```

```
            "namespace": "*"
        },
        {
            "id": "HttpUriConflict",
            "namespace": "*"
        },
        {
            "id": "Service",
            "namespace": "*"
        }
    ]
},
"shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
        "type": "service",
        "version": "2018-08-01",
        "operations": [
            {
                "target": "com.amazonaws.licensemanager#AcceptGrant"
            },

 {
                "target": "com.amazonaws.licensemanager#CheckInLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CheckoutLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateGrant"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateGrantVersion"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicense"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
            },
            {
                "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
```

```
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseVersion"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateToken"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteToken"
    },
    {
      "target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

  },
    {
      "target": "com.amazonaws.licensemanager#GetAccessToken"
    },
    {
      "target": "com.amazonaws.licensemanager#GetGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseUsage"
    },
    {
```

"target": "com.amazonaws.licensemanager#GetServiceSettings"
},
{
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
},
{
"target": "com.amazonaws.licensemanager#ListDistributedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
"target": "com.amazonaws.licensemanager#ListLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

"target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
{
"target": "com.amazonaws.licensemanager#ListReceivedLicenses"
},
{
"target": "com.amazonaws.licensemanager#ListResourceInventory"
},
{
"target": "com.amazonaws.licensemanager#ListTagsForResource"
},
{
"target": "com.amazonaws.licensemanager#ListTokens"
},
{
"target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
},

```
            {
                "target": "com.amazonaws.licensemanager#RejectGrant"
            },
            {
                "target": "com.amazonaws.licensemanager#TagResource"
            },
            {
                "target": "com.amazonaws.licensemanager#UntagResource"
            },
            {
                "target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
            },
            {
                "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
            },
            {
                "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
            },
            {
                "target": "com.amazonaws.licensemanager#UpdateServiceSettings"
            }
        ],
        "traits": {
            "aws.api#service": {
                "sdkId": "License Manager",
                "arnNamespace": "license-manager",
                "cloudFormationName": "LicenseManager",
                "cloudTrailEventSource": "licensemanager.amazonaws.com",
                "endpointPrefix":
 "license-manager"
            },
            "aws.auth#sigv4": {
                "name": "license-manager"
            },
            "aws.protocols#awsJson1_1": {},
            "smithy.api#documentation": "<p>License Manager makes it easier to manage licenses from software
vendors across multiple \n        Amazon Web Services accounts and on-premises servers.</p>",
            "smithy.api#title": "AWS License Manager",
            "smithy.api#xmlNamespace": {
                "uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
            }
        }
    },
    "com.amazonaws.licensemanager#AcceptGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#AcceptGrantRequest"
        },
```

```
        "output": {
            "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
        },
        "errors": [
            {

           "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantRequest":
{
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
```

"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant
status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
}
},
"com.amazonaws.licensemanager#AccessDeniedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ServiceAccessDenied",
"httpResponseCode": 401
},
"smithy.api#documentation": " Access to resource denied. ",
"smithy.api#error": "client",
"smithy.api#httpError": 401
}
},
"com.amazonaws.licensemanager#AllowedOperation":
{
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "CreateGrant",
"name": "CREATE_GRANT"
},
{
"value": "CheckoutLicense",

```
                "name": "CHECKOUT_LICENSE"
            },
            {
                "value": "CheckoutBorrowLicense",
                "name": "CHECKOUT_BORROW_LICENSE"
            },
            {
                "value": "CheckInLicense",
                "name": "CHECK_IN_LICENSE"
            },
            {
                "value": "ExtendConsumptionLicense",
                "name": "EXTEND_CONSUMPTION_LICENSE"
            },
            {
                "value": "ListPurchasedLicenses",
                "name": "LIST_PURCHASED_LICENSES"
            },
            {
                "value": "CreateToken",
                "name": "CREATE_TOKEN"
            }
        ]
    }
},
"com.amazonaws.licensemanager#AllowedOperationList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#AllowedOperation"
    },
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 7
        }
    }
},
"com.amazonaws.licensemanager#Arn": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 2048
        },
        "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
    }
},
```

"com.amazonaws.licensemanager#ArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
}
},
"com.amazonaws.licensemanager#AuthorizationException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "AuthorizationFailure",
"httpResponseCode": 403
},
"smithy.api#documentation": " The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n policy associated with this account. ",
"smithy.api#error": "client",
"smithy.api#httpError": 403
}
},
"com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
"type": "structure",
"members": {
"LastRunTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time that automated discovery last ran. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes automated discovery. "
}
},
"com.amazonaws.licensemanager#Boolean": {
"type": "boolean"
},
"com.amazonaws.licensemanager#BorrowConfiguration": {
"type": "structure",
"members": {
"AllowEarlyCheckIn": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {

"smithy.api#documentation": " Indicates whether early check-ins are allowed. ",
"smithy.api#required": {}
}
},
"MaxTimeToLiveInMinutes": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum time for the borrow configuration, in minutes. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Details about a borrow configuration. "
}
},
"com.amazonaws.licensemanager#BoxBoolean": {
"type": "boolean",
"traits": {
"smithy.api#box": {}
}
},
"com.amazonaws.licensemanager#BoxInteger": {
"type": "integer",
"traits": {
"smithy.api#box": {}
}
},
"com.amazonaws.licensemanager#BoxLong": {

"type": "long",
"traits": {
"smithy.api#box": {}
}
},
"com.amazonaws.licensemanager#CheckInLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{

"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Checks in the specified license. Check in a license when it is no longer in use. "
}
},
"com.amazonaws.licensemanager#CheckInLicenseRequest": {
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",

"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
}
}
},
"com.amazonaws.licensemanager#CheckInLicenseResponse": {
"type": "structure",
"members": {}

```
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicense": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },

{
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {

          "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
```

```
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                 "traits": {
                    "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
                    "smithy.api#required": {}
                }
            },
            "DigitalSignatureMethod": {
                "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
                "traits": {
                    "smithy.api#documentation": "<p>Digital signature method. The possible value is JSON Web
Signature (JWS) algorithm PS384.\n        For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>",
                    "smithy.api#required": {}
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
 "<p>Node ID.</p>"
                }
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
```

```
            }
          }
        }
      },
      "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",

"traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
          },
          "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License consumption token.</p>"
            }
          },
          "EntitlementsAllowed": {
            "target": "com.amazonaws.licensemanager#EntitlementDataList",
            "traits": {
              "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
            }
          },
          "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Node ID.</p>"
            }
          },
          "SignedToken": {

         "target": "com.amazonaws.licensemanager#SignedToken",
            "traits": {
              "smithy.api#documentation": "<p>Signed token.</p>"
            }
          },
          "IssuedAt": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
            }
          },
          "Expiration": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
```

"smithy.api#documentation": " Date and time at which the license checkout expires. "
}
},
"CheckoutMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation":
" Information about constraints. "
}
}
}
},
"com.amazonaws.licensemanager#CheckoutLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
},
{

"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutLicenseRequest": {
        "type": "structure",
        "members": {
            "ProductSKU":
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "CheckoutType": {
                "target": "com.amazonaws.licensemanager#CheckoutType",
                "traits": {
                    "smithy.api#documentation": "<p>Checkout type.</p>",
                    "smithy.api#required": {}
                }
            },
            "KeyFingerprint": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Key fingerprint identifying the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                 "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",
                    "smithy.api#required": {}
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
```

```
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>"
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",

    "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CheckoutLicenseResponse": {
        "type": "structure",
        "members": {
            "CheckoutType": {
                "target": "com.amazonaws.licensemanager#CheckoutType",
                "traits": {
                    "smithy.api#documentation": "<p>Checkout type.</p>"
                }
            },
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>"
                }
            },
            "EntitlementsAllowed": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation":
  "<p>Allowed license entitlements.</p>"
                }
            },
            "SignedToken": {
                "target": "com.amazonaws.licensemanager#SignedToken",
                "traits": {
                    "smithy.api#documentation": "<p>Signed token.</p>"
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
```

```
            }
        },
        "IssuedAt": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
            }
        },
        "Expiration": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",

          "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
            }
        },
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CheckoutType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "PROVISIONAL",
                "name": "PROVISIONAL"
            },
            {
                "value": "PERPETUAL",
                "name": "PERPETUAL"
            }
        ]
    }
},
"com.amazonaws.licensemanager#ClientRequestToken":
{
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 36
        }
    }
},
```

```
    "com.amazonaws.licensemanager#ClientToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 2048
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
    "com.amazonaws.licensemanager#ConflictException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ConflictException",
                "httpResponseCode": 409
            },
            "smithy.api#documentation": "<p>There
was a conflict processing the request. Try your request again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 409
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
                }
            },
            "ConsumedLicenses": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about license consumption.</p>"
         }
    },
```

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"com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
    }
},
"com.amazonaws.licensemanager#ConsumptionConfiguration": {
    "type": "structure",
    "members": {
        "RenewType": {
            "target": "com.amazonaws.licensemanager#RenewType",
            "traits": {
                "smithy.api#documentation": "<p>Renewal frequency.</p>"
            }
        },
        "ProvisionalConfiguration": {
            "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
            }
        },
        "BorrowConfiguration": {

            "target": "com.amazonaws.licensemanager#BorrowConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
    }
},
"com.amazonaws.licensemanager#CreateGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
```

{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a grant for the specified license. A grant shares the use of license entitlements with specific Amazon Web Services accounts. "
}
},
"com.amazonaws.licensemanager#CreateGrantRequest": {
"type": "structure",
"members": {

"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},

```
        "Principals": {
            "target": "com.amazonaws.licensemanager#PrincipalArnList",
            "traits": {
                "smithy.api#documentation": "<p>The grant principals.</p>",
                "smithy.api#required": {}
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "AllowedOperations": {
            "target": "com.amazonaws.licensemanager#AllowedOperationList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed operations for the grant.</p>",
                "smithy.api#required": {}
            }
        }
    }
    },
    "com.amazonaws.licensemanager#CreateGrantResponse":
{
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    }
    },
```

"com.amazonaws.licensemanager#CreateGrantVersion": {
"type": "operation",
"input": {

"target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a new version of the specified grant. "
}
},
"com.amazonaws.licensemanager#CreateGrantVersionRequest": {
"type": "structure",
"members": {
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},

```
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                 "smithy.api#required": {}
            }
        },
        "GrantName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant name.</p>"
            }
        },
        "AllowedOperations": {
            "target": "com.amazonaws.licensemanager#AllowedOperationList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "StatusReason": {
            "target": "com.amazonaws.licensemanager#StatusReasonMessage",

        "traits": {
                "smithy.api#documentation": "<p>Grant status reason.</p>"
            }
        },
        "SourceVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Current version of the grant.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
```

```
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant
status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>New version of the grant.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#CreateLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
```

"smithy.api#documentation": " Creates a license. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Creates a license configuration. \n A license configuration is an abstraction of a customer license
agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a \n license must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the license configuration. ",
"smithy.api#required": {}

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            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
                "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
                "smithy.api#required": {}
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {

"smithy.api#documentation": "<p>Indicates whether hard or soft license enforcement is used. Exceeding a hard limit\n blocks the launch of new instances.</p>"
            }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules \n vary by dimension, as follows.</p>\n <ul>\n <li>\n <p>\n <code>Cores</code> dimension: <code>allowedTenancy</code> |\n <code>licenseAffinityToHost</code> |\n <code>maximumCores</code> | <code>minimumCores</code>\n </p>\n </li>\n <li>\n <p>\n <code>Instances</code> dimension: <code>allowedTenancy</code> | \n <code>maximumCores</code> | <code>minimumCores</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code> |\n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n </p>\n </li>\n <li>\n <p>\n <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n <code>licenseAffinityToHost</code> |\n <code>maximumSockets</code> | <code>minimumSockets</code>\n </p>\n </li>\n <li>\n <p>\n <code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n <code>honorVcpuOptimization</code> | \n <code>maximumVcpus</code> | <code>minimumVcpus</code>\n </p>\n </li>\n </ul>\n <p>The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>,
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<code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for
<code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>.</p>"
            }
        },
        "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
                "smithy.api#documentation": "<p>Tags to add to the license configuration.</p>"
            }
        },
        "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
        },
        "ProductInformationList": {
            "target": "com.amazonaws.licensemanager#ProductInformationList",
            "traits":
{
                "smithy.api#documentation": "<p>Product information.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CreateLicenseConfigurationResponse": {
    "type": "structure",
    "members": {
        "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
     },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
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            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest":
{
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting
from. \n        For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the AWS
CLI</a> in the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            },
            "DestinationLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting to.
For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-
```

manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the AWS CLI in the License Manager User Guide. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the created license type conversion task. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},

```
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "ReportGeneratorName": {
                "target":
 "com.amazonaws.licensemanager#ReportGeneratorName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>",
                    "smithy.api#required": {}
                }
            },
            "Type": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports to generate. The following report types an be
generated:</p>\n        <ul>\n            <li>\n                <p>License configuration report - Reports the number and
details of consumed licenses for a license configuration.</p>\n            </li>\n            <li>\n                <p>Resource
report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n            </li>\n
</ul>",
                    "smithy.api#required": {}
                }
            },

        "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
                    "smithy.api#documentation": "<p>Defines the type of license configuration the report generator
tracks.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportFrequency": {
                "target": "com.amazonaws.licensemanager#ReportFrequency",
                "traits": {
                    "smithy.api#documentation": "<p>Frequency by which reports are generated.  Reports can be
generated daily, monthly, or weekly.</p>",
                    "smithy.api#required": {}
                }
            },
            "ClientToken": {
```

"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the new report generator. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseRequest": {
"type": "structure",
"members": {
"LicenseName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License name. ",
"smithy.api#required": {}
}
},
"ProductName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product name. ",

"smithy.api#required": {}
}
},
"ProductSKU": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Product SKU. ",
"smithy.api#required": {}
}
},
"Issuer": {
"target": "com.amazonaws.licensemanager#Issuer",
"traits": {
"smithy.api#documentation": " License issuer. ",
"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region for the license. ",
"smithy.api#required": {}
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation":
" Date and time range during which the license is valid, in ISO8601-UTC format. ",
"smithy.api#required": {}
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. ",
"smithy.api#required": {}
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. ",
"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",

"traits": {

"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " Information about the license. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}

}
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
}
},

"com.amazonaws.licensemanager#CreateLicenseVersion":
{
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a new version of the specified license. "
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}

```
            },
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>License name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product name.</p>",
                    "smithy.api#required": {}
                }
            },
            "Issuer": {
                "target": "com.amazonaws.licensemanager#Issuer",
                "traits": {
                    "smithy.api#documentation": "<p>License issuer.</p>",
                    "smithy.api#required": {}
                }
            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
 "<p>Home Region of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Validity": {
                "target": "com.amazonaws.licensemanager#DatetimeRange",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license.</p>"
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>",
```

"smithy.api#required": {}
}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. Choose a provisional configuration for workloads\n running with continuous connectivity. Choose a borrow configuration for workloads with offline\n usage. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target":
"com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. "
}
}
}
},
"com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. "
}
},

"Version": {
"target": "com.amazonaws.licensemanager#String",

```
            "traits": {
                "smithy.api#documentation": "<p>New version of the license.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#CreateToken": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateTokenRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateTokenResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },

  {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
```

"smithy.api#documentation": " Creates a long-lived token. \n A refresh token is a JWT token used to get an access token. With an access token,\n you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n call License Manager to manage the specified license. "
}
},
"com.amazonaws.licensemanager#CreateTokenRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n JWT token. ",
"smithy.api#required": {}
}
},
"RoleArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n License Manager does not check whether the roles are in use. "
}
},
"ExpirationInDays": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Token expiration, in days, counted from token creation. The default is 365 days. "
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Data specified by the caller to be included in the JWT token. The data is mapped\n to the amr claim of the JWT token. "
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientToken",
"traits": {
"smithy.api#documentation": " Idempotency token, valid for 10 minutes. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#CreateTokenResponse": {

"type": "structure",
"members": {
"TokenId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token ID. "
}
},
"TokenType": {
"target": "com.amazonaws.licensemanager#TokenType",
"traits": {
"smithy.api#documentation": " Token type. "
}
},
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token,
encoded as a JWT token. "
}
}
}
},
"com.amazonaws.licensemanager#DateTime": {
"type": "timestamp"
},
"com.amazonaws.licensemanager#DatetimeRange": {
"type": "structure",
"members": {
"Begin": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Start of the time range. ",
"smithy.api#required": {}
}
},
"End": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " End of the time range. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a time range, in ISO8601-UTC
format. "
}
},

```
"com.amazonaws.licensemanager#DeleteGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

  },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Deletes the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#DeleteGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "StatusReason": {
            "target": "com.amazonaws.licensemanager#StatusReasonMessage",
```

"traits": {

"smithy.api#documentation": " The Status reason for the delete request. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the grant. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#DeleteGrantResponse": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Grant ARN. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation":
" Grant status. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Grant version. "
}
}
}
},
"com.amazonaws.licensemanager#DeleteLicense": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#ConflictException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified license. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"

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            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license configuration.</p> \n          <p>You cannot delete a license configuration
 that is in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{

"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes the specified report generator. \n This action deletes the report generator, which stops it from generating future reports.\n The action cannot be reversed. It has no effect on the previous reports from this generator. "
}
},
"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to be deleted. ",
"smithy.api#required": {}
}
}
}
},

"com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#DeleteLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},

"SourceVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Current version of the license. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#DeleteLicenseResponse":
{
"type": "structure",
"members": {
"Status": {
"target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"DeletionDate": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Date when the license is deleted. "
}
}
}
},
"com.amazonaws.licensemanager#DeleteToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#DeleteTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#DeleteTokenResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#RedirectException"

```
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
        }

    },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#DigitalSignatureMethod": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "JWT_PS384",
                    "name": "JWT_PS384"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#Entitlement": {
        "type": "structure",
```

"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement name. ",
"smithy.api#required": {}
}
},
"Value": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Entitlement resource. Use only if the unit is None. "
}
},
"MaxCount": {
"target": "com.amazonaws.licensemanager#Long",
"traits": {
"smithy.api#documentation": " Maximum entitlement count. Use if the unit is not None. "
}
},
"Overage": {
"target": "com.amazonaws.licensemanager#BoxBoolean",

"traits": {
"smithy.api#documentation": " Indicates whether overages are allowed. "
}
},
"Unit": {
"target": "com.amazonaws.licensemanager#EntitlementUnit",
"traits": {
"smithy.api#documentation": " Entitlement unit. ",
"smithy.api#required": {}
}
},
"AllowCheckIn": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether check-ins are allowed. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a resource entitled for use with a license. "
}
},
"com.amazonaws.licensemanager#EntitlementData": {
"type": "structure",

```
        "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement data name.</p>",
              "smithy.api#required": {}
            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement data value.</p>"
            }
          },
          "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement data unit.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Data associated
with an entitlement resource.</p>"
        }
      },
      "com.amazonaws.licensemanager#EntitlementDataList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#EntitlementData"
        }
      },
      "com.amazonaws.licensemanager#EntitlementDataUnit": {
        "type": "string",
        "traits": {
          "smithy.api#enum": [
            {
              "value": "Count",
              "name": "COUNT"
            },
            {
              "value": "None",
              "name": "NONE"
            },
            {
              "value": "Seconds",
              "name": "SECONDS"
```

```
        },
        {
          "value": "Microseconds",
          "name": "MICROSECONDS"
        },
        {

"value": "Milliseconds",
          "name": "MILLISECONDS"
        },
        {
          "value": "Bytes",
          "name": "BYTES"
        },
        {
          "value": "Kilobytes",
          "name": "KILOBYTES"
        },
        {
          "value": "Megabytes",
          "name": "MEGABYTES"
        },
        {
          "value": "Gigabytes",
          "name": "GIGABYTES"
        },
        {
          "value": "Terabytes",
          "name": "TERABYTES"
        },
        {
          "value": "Bits",
          "name": "BITS"
        },
        {
          "value": "Kilobits",
          "name": "KILOBITS"
         },
        {
          "value": "Megabits",
          "name": "MEGABITS"
        },
        {
          "value": "Gigabits",
          "name": "GIGABITS"
        },
        {
          "value": "Terabits",
```

"name": "TERABITS"
},
{
"value": "Percent",
"name": "PERCENT"
},
{
"value": "Bytes/Second",
"name": "BYTES_PER_SECOND"
},
{
"value": "Kilobytes/Second",
"name": "KILOBYTES_PER_SECOND"
},
{
"value": "Megabytes/Second",
"name": "MEGABYTES_PER_SECOND"

},
{
"value": "Gigabytes/Second",
"name": "GIGABYTES_PER_SECOND"
},
{
"value": "Terabytes/Second",
"name": "TERABYTES_PER_SECOND"
},
{
"value": "Bits/Second",
"name": "BITS_PER_SECOND"
},
{
"value": "Kilobits/Second",
"name": "KILOBITS_PER_SECOND"
},
{
"value": "Megabits/Second",
"name": "MEGABITS_PER_SECOND"
},
{
"value": "Gigabits/Second",
"name": "GIGABITS_PER_SECOND"
},
{
"value": "Terabits/Second",

"name": "TERABITS_PER_SECOND"
},

```
            {
                "value": "Count/Second",
                "name": "COUNT_PER_SECOND"
            }
        ]
    }
},
"com.amazonaws.licensemanager#EntitlementList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Entitlement"
    }
},
"com.amazonaws.licensemanager#EntitlementNotAllowedException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#EntitlementUnit": {

 "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "Count",
                "name": "COUNT"
            },
            {
                "value": "None",
                "name": "NONE"
            },
            {
                "value": "Seconds",
                "name": "SECONDS"
            },
            {
                "value": "Microseconds",
                "name": "MICROSECONDS"
            },
            {
```

"value": "Milliseconds",
"name": "MILLISECONDS"
},
{
"value": "Bytes",
"name": "BYTES"
},
{
"value": "Kilobytes",
"name": "KILOBYTES"

},
{
"value": "Megabytes",
"name": "MEGABYTES"
},
{
"value": "Gigabytes",
"name": "GIGABYTES"
},
{
"value": "Terabytes",
"name": "TERABYTES"
},
{
"value": "Bits",
"name": "BITS"
},
{
"value": "Kilobits",
"name": "KILOBITS"
},
{
"value": "Megabits",
"name": "MEGABITS"
},
{
"value": "Gigabits",
"name": "GIGABITS"
},
{
"value": "Terabits",
"name": "TERABITS"
},
{
"value": "Percent",
"name": "PERCENT"
},

```
            {
              "value": "Bytes/Second",
              "name": "BYTES_PER_SECOND"
            },
            {
              "value": "Kilobytes/Second",
              "name": "KILOBYTES_PER_SECOND"
            },
            {
              "value": "Megabytes/Second",
              "name": "MEGABYTES_PER_SECOND"
            },
            {
              "value": "Gigabytes/Second",
              "name": "GIGABYTES_PER_SECOND"
            },
            {
              "value": "Terabytes/Second",
              "name": "TERABYTES_PER_SECOND"
            },
            {

    "value": "Bits/Second",
              "name": "BITS_PER_SECOND"
            },
            {
              "value": "Kilobits/Second",
              "name": "KILOBITS_PER_SECOND"
            },
            {
              "value": "Megabits/Second",
              "name": "MEGABITS_PER_SECOND"
            },
            {
              "value": "Gigabits/Second",
              "name": "GIGABITS_PER_SECOND"
            },
            {
              "value": "Terabits/Second",
              "name": "TERABITS_PER_SECOND"
            },
            {
              "value": "Count/Second",
              "name": "COUNT_PER_SECOND"
            }
          ]
        }
      },
```

```
    "com.amazonaws.licensemanager#EntitlementUsage": {
        "type": "structure",

"members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ConsumedValue": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxCount": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
                }
            },
            "Unit": {
                "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
                 "traits": {
                    "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementUsageList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
        },
        "output": {
```

"target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Extends the expiration date for license consumption. "
}
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
"type": "structure",
"members": {
"LicenseConsumptionToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License consumption token. ",
"smithy.api#required": {}
}
},
"DryRun": {
"target": "com.amazonaws.licensemanager#Boolean",
"traits": {
"smithy.api#documentation": " Checks whether you have the required permissions for the action, without actually making the request. Provides an error response if you do not have the required permissions. "
}
}
}

```
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
    "type": "structure",

  "members": {
        "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
            }
        },
        "Expiration": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#FailedDependencyException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        },
        "ErrorCode": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },

 "traits": {
        "aws.protocols#awsQueryError": {
            "code": "FailedDependency",
            "httpResponseCode": 424
        },
        "smithy.api#documentation": "<p>A dependency required to run the API is missing.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 424
    }
},
"com.amazonaws.licensemanager#Filter": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#FilterName",
            "traits": {
                "smithy.api#documentation": "<p>Name of the filter. Filter names are case-sensitive.</p>"
            }
```

```
            },
            "Values": {
                "target": "com.amazonaws.licensemanager#FilterValues",
                "traits": {
                    "smithy.api#documentation": "<p>Filter values. Filter
values are case-sensitive.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A filter name and value pair that is used to return more specific results
from a\n        describe operation. Filters can be used to match a set of resources by specific criteria,\n        such as
tags, attributes, or IDs.</p>"
        }
    },
    "com.amazonaws.licensemanager#FilterLimitExceededException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "FilterLimitExceeded",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
            "smithy.api#error":
"client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#FilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Filter"
        }
    },
    "com.amazonaws.licensemanager#FilterName": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#FilterValue": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#FilterValues": {
        "type": "list",
        "member": {
```

"target": "com.amazonaws.licensemanager#FilterValue",
"traits": {
"smithy.api#xmlName": "item"
}
}
},
"com.amazonaws.licensemanager#Filters": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Filter",
"traits": {
"smithy.api#xmlName":
"item"
}
}
},
"com.amazonaws.licensemanager#GetAccessToken": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"

}
],
"traits": {
"smithy.api#documentation": " Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access tokens\n are valid for one hour. "
}
},
"com.amazonaws.licensemanager#GetAccessTokenRequest": {

"type": "structure",
"members": {
"Token": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Refresh token, encoded as a JWT token. ",
"smithy.api#required": {}
}
},
"TokenProperties": {
"target": "com.amazonaws.licensemanager#MaxSize3StringList",
"traits": {
"smithy.api#documentation": " Token properties to validate against those present in the JWT token. "
}

}
}
},
"com.amazonaws.licensemanager#GetAccessTokenResponse": {
"type": "structure",
"members": {
"AccessToken": {
"target": "com.amazonaws.licensemanager#TokenString",
"traits": {
"smithy.api#documentation": " Temporary access token. "
}
}
}
},
"com.amazonaws.licensemanager#GetGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},

```
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
                "smithy.api#documentation": "<p>Grant details.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",
```

```
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license
configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId":
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
                }
            },
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the license configuration.</p>"
                }
            },
```

"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation":
" Description of the license configuration. "
}
},
"LicenseCountingType": {
"target": "com.amazonaws.licensemanager#LicenseCountingType",
"traits": {
"smithy.api#documentation": " Dimension for which the licenses are counted. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " License rules. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of available licenses. "
}
},
"LicenseCountHardLimit": {

"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Sets the number of available licenses as a hard limit. "
}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses assigned to resources. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License configuration status. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the

owner of the license configuration. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the licenses consumed by resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {
"smithy.api#documentation": " Summaries of the managed resources. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags for the license configuration. "
}
},
"ProductInformationList":
{
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is
uninstalled. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseConversionTask": {
"type":
"operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"

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        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets
information about the specified license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license type conversion task to retrieve information
on.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license
type conversion task.</p>"
                }
```

```
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the resources the license
conversion task is associated with.</p>"
                }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license type converted from.</p>"
                }
            },
            "DestinationLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license type converted to.</p>"

        }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
                }
            },
            "StartTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
                }
            },
            "LicenseConversionTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                 "traits": {
                    "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
                }
            },
            "EndTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
```

"smithy.api#documentation": " Time at which the license type conversion task was completed. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Gets information about the specified report generator. "
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {

"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator. ",
"smithy.api#required": {}
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {
"ReportGenerator": {
"target": "com.amazonaws.licensemanager#ReportGenerator",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic
reports about your license configurations. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseRequest": {
"type": "structure",
"members": {
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license. ",
"smithy.api#required": {}
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License version. "
}
}
}
},
"com.amazonaws.licensemanager#GetLicenseResponse": {
"type": "structure",
"members": {
"License": {
"target":
"com.amazonaws.licensemanager#License",
"traits": {
"smithy.api#documentation": " License details. "
}

```
        }
    }
},
"com.amazonaws.licensemanager#GetLicenseUsage": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
         },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#GetLicenseUsageRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanager#GetLicenseUsageResponse":
```

```
{
        "type": "structure",
        "members": {
            "LicenseUsage": {
                "target": "com.amazonaws.licensemanager#LicenseUsage",
                "traits": {
                    "smithy.api#documentation": "<p>License usage details.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },

 {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

"smithy.api#documentation": " Regional S3 bucket path for storing reports, license trail event data, discovery data,\n and so on. "
}

},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " SNS topic configured to receive notifications from License Manager. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {
"smithy.api#documentation": " Indicates whether Organizations is integrated with License Manager for\n cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Indicates whether cross-account discovery is enabled. "
}

},
"LicenseManagerResourceShareArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource share. The License Manager management account \n provides member accounts with access to this share. "
}
}
}
},
"com.amazonaws.licensemanager#Grant": {
"type": "structure",
"members": {
"GrantArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the grant. ",
"smithy.api#required": {}
}
},
"GrantName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Grant name. ",
"smithy.api#required": {}
}
},
"ParentArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " Parent ARN. ",
"smithy.api#required": {}
}
},
"LicenseArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " License ARN. ",
"smithy.api#required": {}
}
},
"GranteePrincipalArn": {
"target": "com.amazonaws.licensemanager#Arn",
"traits": {
"smithy.api#documentation": " The grantee principal ARN. ",

"smithy.api#required": {}
}
},
"HomeRegion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Home Region of the grant. ",
"smithy.api#required": {}
}
},
"GrantStatus": {
"target": "com.amazonaws.licensemanager#GrantStatus",
"traits": {
"smithy.api#documentation": " Grant status. ",
"smithy.api#required": {}
}
},
"StatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {
"smithy.api#documentation": " Grant status reason. "
}
},
"Version": {

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    "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>",
                "smithy.api#required": {}
            }
        },
        "GrantedOperations": {
            "target": "com.amazonaws.licensemanager#AllowedOperationList",
            "traits": {
                "smithy.api#documentation": "<p>Granted operations.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes a grant.</p>"
    }
},
"com.amazonaws.licensemanager#GrantList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Grant"
    }
},
"com.amazonaws.licensemanager#GrantStatus": {
    "type": "string",

  "traits": {
        "smithy.api#enum": [
            {
                "value": "PENDING_WORKFLOW",
                "name": "PENDING_WORKFLOW"
            },
            {
                "value": "PENDING_ACCEPT",
                "name": "PENDING_ACCEPT"
            },
            {
                "value": "REJECTED",
                "name": "REJECTED"
            },
            {
                "value": "ACTIVE",
                "name": "ACTIVE"
            },
            {
                "value": "FAILED_WORKFLOW",
```

```
                "name": "FAILED_WORKFLOW"
            },
            {
                "value": "DELETED",
                "name": "DELETED"
            },
            {
                "value": "PENDING_DELETE",
                "name": "PENDING_DELETE"
            },
            {
                "value": "DISABLED",
                "name": "DISABLED"
            },
            {
                "value": "WORKFLOW_COMPLETED",
                "name": "WORKFLOW_COMPLETED"
            }
        ]
    }
},
"com.amazonaws.licensemanager#GrantedLicense": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License name.</p>"
            }

},
        "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product name.</p>"
            }
        },
        "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product SKU.</p>"
            }
```

```
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>Granted license issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the granted license.</p>"

        }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>Granted license status.</p>"
            }
        },
        "Validity": {
            "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {
                "smithy.api#documentation": "<p>Date and time range during which the granted license is valid, in
ISO8601-UTC format.</p>"
            }
        },
        "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Granted license beneficiary.</p>"
            }
        },
        "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
             "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>"
            }
        },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
            }
        },
        "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
```

"smithy.api#documentation": " Granted license metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " Creation time of the granted license. "

}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Version of the granted license. "
}
},
"ReceivedMetadata": {
"target": "com.amazonaws.licensemanager#ReceivedMetadata",
"traits": {
"smithy.api#documentation": " Granted license received metadata. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a license that is granted to a grantee. "
}
},
"com.amazonaws.licensemanager#GrantedLicenseList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#GrantedLicense"
}
},
"com.amazonaws.licensemanager#ISO8601DateTime":
{
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
}
},
"com.amazonaws.licensemanager#Integer": {
"type": "integer",
"traits": {

"smithy.api#box": {}
}
},
"com.amazonaws.licensemanager#InvalidParameterValueException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidParameterValueProvided",

"httpResponseCode": 400
},
"smithy.api#documentation": " One or more parameter values are not valid. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#InvalidResourceStateException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InvalidResourceState",
"httpResponseCode": 400
},
"smithy.api#documentation": " License Manager cannot allocate a license to a resource because of its state. \n For example, you cannot allocate a license to an instance in the process of shutting\n down. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#InventoryFilter": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the filter. ",
"smithy.api#required": {}

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            }
        },
        "Condition": {
            "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
            "traits": {
                "smithy.api#documentation": "<p>Condition of the filter.</p>",
                "smithy.api#required": {}
            }
        },
        "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Value
of the filter.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>An inventory filter.</p>"
    }
},
"com.amazonaws.licensemanager#InventoryFilterCondition": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "EQUALS",
                "name": "EQUALS"
            },
            {
                "value": "NOT_EQUALS",
                "name": "NOT_EQUALS"
            },
            {
                "value": "BEGINS_WITH",
                "name": "BEGINS_WITH"
            },
            {
                "value": "CONTAINS",
                "name": "CONTAINS"
            }
        ]
    }
},
"com.amazonaws.licensemanager#InventoryFilterList":
{
    "type": "list",
    "member": {
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"target": "com.amazonaws.licensemanager#InventoryFilter"
}
},
"com.amazonaws.licensemanager#Issuer": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. ",
"smithy.api#required": {}
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
}
},
"traits": {

"smithy.api#documentation": " Details about the issuer of a license. "
}
},
"com.amazonaws.licensemanager#IssuerDetails": {
"type": "structure",
"members": {
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Issuer name. "
}
},
"SignKey": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm. "
}
},
"KeyFingerprint": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

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                "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
    }
},
"com.amazonaws.licensemanager#License": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License name.</p>"
            }
        },
        "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
                "smithy.api#documentation": "<p>Product name.</p>"
            }
        },
        "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product SKU.</p>"
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>License issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the license.</p>"
            }
        },
        "Status": {
```

"target": "com.amazonaws.licensemanager#LicenseStatus",
"traits": {
"smithy.api#documentation": " License status. "
}
},
"Validity": {
"target": "com.amazonaws.licensemanager#DatetimeRange",
"traits": {
"smithy.api#documentation": " Date and time range during which the license is valid, in ISO8601-UTC format. "
}
},
"Beneficiary": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " License beneficiary. "
}
},
"Entitlements": {
"target": "com.amazonaws.licensemanager#EntitlementList",
"traits": {
"smithy.api#documentation": " License entitlements. "

}
},
"ConsumptionConfiguration": {
"target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
"traits": {
"smithy.api#documentation": " Configuration for consumption of the license. "
}
},
"LicenseMetadata": {
"target": "com.amazonaws.licensemanager#MetadataList",
"traits": {
"smithy.api#documentation": " License metadata. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#ISO8601DateTime",
"traits": {
"smithy.api#documentation": " License creation time. "
}
},
"Version": {
"target": "com.amazonaws.licensemanager#String",
"traits":
{
"smithy.api#documentation": " License version. "

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            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
    "type": "structure",
    "members": {
        "LicenseConfigurationId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
            }
        },
        "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }

  },
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the license configuration.</p>"
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
                "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
            }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {

                "smithy.api#documentation": "<p>License rules.</p>"
            }
        },
```

"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Number of available licenses as a hard limit. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "

}
},
"ConsumedLicenses": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " Number of licenses consumed. "
}
},
"Status": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Status of the license configuration. "
}
},
"OwnerAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Account ID of the license configuration's owner. "
}
},
"ConsumedLicenseSummaryList": {
"target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",

"traits": {
"smithy.api#documentation": " Summaries for licenses consumed by various resources. "
}
},
"ManagedResourceSummaryList": {
"target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
"traits": {

"smithy.api#documentation": " Summaries for managed resources. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",
"traits": {
"smithy.api#documentation": " Product information. "
}
},
"AutomatedDiscoveryInformation": {
"target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
"traits": {
"smithy.api#documentation": " Automated discovery information. "
}
}
},
"traits": {
"smithy.api#documentation": " A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource consuming licenses. "
}
},

"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " Time when the license configuration was associated with the resource. "
}
},
"AmiAssociationScope":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an association with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
}
},
"com.amazonaws.licensemanager#LicenseConfigurationStatus": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "AVAILABLE",
"name": "AVAILABLE"
},
{
"value": "DISABLED",
"name": "DISABLED"
}
]
}
},
"com.amazonaws.licensemanager#LicenseConfigurationUsage": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "

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            }
        },
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Type of resource.</p>"
            }
        },
        "ResourceStatus": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

  "smithy.api#documentation": "<p>Status of the resource.</p>"
            }
        },
        "ResourceOwnerId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
            }
        },
        "AssociationTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time when the license configuration was initially associated with
the resource.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
            }
        }

    },
      "traits": {
          "smithy.api#documentation": "<p>Details about the usage of a resource associated with a license
configuration.</p>"
      }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
      "type": "list",
      "member": {
          "target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
      }
    },
    "com.amazonaws.licensemanager#LicenseConfigurations": {
```

"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseConfiguration"
}
},
"com.amazonaws.licensemanager#LicenseConversionContext": {
"type": "structure",
"members": {
"UsageOperation": {
"target": "com.amazonaws.licensemanager#UsageOperation",
"traits": {
"smithy.api#documentation": " The Usage operation value that corresponds
to the license type you are converting your resource from. For more information about which platforms correspond
to which usage operation values see <a href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-
info-fields.html#billing-info\">Sample data: usage operation by platform\n \n "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTask": {
"type": "structure",
"members": {
"LicenseConversionTaskId": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
"traits": {
"smithy.api#documentation": " The ID of the license type conversion task. "
}
},
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource associated
with the license type\n conversion task. "
}
},
"SourceLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",
"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted
from. "
}
},
"DestinationLicenseContext": {
"target": "com.amazonaws.licensemanager#LicenseConversionContext",

"traits": {
"smithy.api#documentation": " Information about the license type this conversion task converted to. "
}
},

"Status": {
"target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
"traits": {
"smithy.api#documentation": " The status of the conversion task. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " The status message for the conversion task. "
}
},
"StartTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was started at. "
}
},
"LicenseConversionTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " The time the usage operation value of the resource was changed. "
}
},
"EndTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {
"smithy.api#documentation": " The time the conversion task was completed. "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a license type conversion task. "
}
},
"com.amazonaws.licensemanager#LicenseConversionTaskId": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50

```
            },
            "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
        "type":
"string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "IN_PROGRESS",
                    "name": "IN_PROGRESS"
                },
                {
                    "value": "SUCCEEDED",
                    "name": "SUCCEEDED"
                },
                {
                    "value": "FAILED",
                    "name": "FAILED"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionTasks": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTask"
        }
    },
    "com.amazonaws.licensemanager#LicenseCountingType": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "vCPU",
                    "name": "VCPU"

                },
                {
                    "value": "Instance",
                    "name": "INSTANCE"
                },
                {
                    "value": "Core",
                    "name": "CORE"
                },
                {
```

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                "value": "Socket",
                "name": "SOCKET"
            }
        ]
    }
},
"com.amazonaws.licensemanager#LicenseDeletionStatus": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "PENDING_DELETE",
                "name": "PENDING_DELETE"
            },
            {
                "value": "DELETED",
                "name": "DELETED"
            }
        ]
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
     "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {
    "type": "structure",
    "members": {
        "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
        },
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Resource type.</p>"
            }
        },
        "ErrorMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Error message.</p>"
```

```
        }
          },
          "FailureTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Failure time.</p>"
            }
          },
          "OperationName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Name of the operation.</p>"
            }
          },
          "ResourceOwnerId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the
resource.</p>"
            }
          },
          "OperationRequestedBy": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

         "smithy.api#documentation": "<p>The requester is \"License Manager Automated Discovery\".</p>"
            }
          },
          "MetadataList": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
              "smithy.api#documentation": "<p>Reserved.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes the failure of a license operation.</p>"
        }
      },
      "com.amazonaws.licensemanager#LicenseOperationFailureList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#LicenseOperationFailure"
        }
      },
      "com.amazonaws.licensemanager#LicenseSpecification": {
        "type": "structure",
        "members": {
```

"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Details for associating a license configuration with a resource. "
}
},
"com.amazonaws.licensemanager#LicenseSpecifications": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#LicenseSpecification"
}
},
"com.amazonaws.licensemanager#LicenseStatus": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "AVAILABLE",
"name": "AVAILABLE"
},
{
"value": "PENDING_AVAILABLE",
"name": "PENDING_AVAILABLE"
},
{
"value": "DEACTIVATED",
"name": "DEACTIVATED"
},
{
"value": "SUSPENDED",
"name": "SUSPENDED"
},
{

"value": "EXPIRED",
"name": "EXPIRED"
},
{
"value": "PENDING_DELETE",
"name": "PENDING_DELETE"
},
{

"value": "DELETED",
"name": "DELETED"
}
]
}
},
"com.amazonaws.licensemanager#LicenseUsage": {
"type": "structure",
"members": {
"EntitlementUsages": {
"target": "com.amazonaws.licensemanager#EntitlementUsageList",
"traits": {
"smithy.api#documentation": " License entitlement usages. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes the entitlement usage associated with a license. "
}
},
"com.amazonaws.licensemanager#LicenseUsageException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {

"aws.protocols#awsQueryError": {
"code": "LicenseUsageFailure",
"httpResponseCode": 412
},
"smithy.api#documentation": " You do not have enough licenses available to support a new resource launch. ",
"smithy.api#error": "client",
"smithy.api#httpError": 412
}
},

"com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the resource associations for the specified license configuration. \n Resource associations need not consume licenses from a license configuration. \n For example, an AMI or a stopped instance might not consume a license (depending on \n the license rules). "
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a license configuration. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",

"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
"type": "structure",
"members": {
"LicenseConfigurationAssociations": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
"traits": {
"smithy.api#documentation": " Information about the associations for the license configuration. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListDistributedGrants": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {

             "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants distributed for the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
        "type": "structure",
        "members": {
            "GrantArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n
        <code>LicenseArn</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>GrantStatus</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>GranteePrincipalARN</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>ProductSKU</code>\n                </p>\n            </li>\n            <li>\n                <p>\n
<code>LicenseIssuerName</code>\n                </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
```

"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",
"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}

```
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the license configuration operations that failed.</p>"
    }
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
    "type": "structure",
    "members": {
        "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse": {
    "type": "structure",
    "members": {
        "LicenseOperationFailureList": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
            "traits": {
                "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListLicenseConfigurations":
```

{
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#FilterLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},

{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Lists the license configurations for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
"type": "structure",
"members": {
"LicenseConfigurationArns": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARN) of the license configurations. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#BoxInteger",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}

```
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n                Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n                Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n
                <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement
is used. \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n
</li>\n            <li>\n                <p>\n                <code>usagelimitExceeded</code> - A Boolean value that indicates
whether the available licenses have been exceeded. \n                Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurations": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurations",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configurations.</p>"

                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasks": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
        },
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```
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target":
"com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
        "type": "structure",
        "members": {
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                 "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>\n        Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n      </p>"
                }
            }
        }
```

```
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTasks": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configuration tasks for your
account.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },

    {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
```

"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the report generators for your account. "
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest": {
"type":
"structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported:
\n \n \n \n <code>LicenseConfigurationArn</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to
return in a single call. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
"type": "structure",
"members": {
"ReportGenerators": {
"target": "com.amazonaws.licensemanager#ReportGeneratorList",
"traits": {
"smithy.api#documentation": " A report generator that creates periodic reports about your license
configurations. "
}
},
"NextToken": {

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
"type": "operation",
"input":
{
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Describes the
license configurations for the specified resource. "
}
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of a resource that has an
associated license configuration. ",
"smithy.api#required": {}
}

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        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",

         "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {
        "LicenseSpecifications": {
            "target": "com.amazonaws.licensemanager#LicenseSpecifications",
            "traits": {
                "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
     "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
```

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            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation":
"<p>Lists all versions of the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum
number of results to return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
        "type": "structure",
        "members": {
            "Licenses": {
                "target": "com.amazonaws.licensemanager#LicenseList",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
```

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        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#ListLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the licenses for your account.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicensesRequest": {
    "type": "structure",
    "members": {
        "LicenseArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
```

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                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n              <p>\n                <code>Beneficiary</code>\n              </p>\n
        </li>\n            <li>\n              <p>\n                <code>ProductSKU</code>\n              </p>\n            </li>\n
    <li>\n              <p>\n
        <code>Fingerprint</code>\n              </p>\n            </li>\n            <li>\n              <p>\n
<code>Status</code>\n              </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListLicensesResponse": {
        "type": "structure",
        "members": {
            "Licenses": {

    "target": "com.amazonaws.licensemanager#LicenseList",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrants": {
        "type": "operation",
        "input": {
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"target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},

{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},
{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists grants that are received but not accepted. "
}
},
"com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
"type": "structure",

"members": {
"GrantArns": {
"target": "com.amazonaws.licensemanager#ArnList",
"traits": {
"smithy.api#documentation": " Amazon Resource Names (ARNs) of the grants. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanager#FilterList",
"traits": {
"smithy.api#documentation": " Filters to scope the results. The following filters are supported: \n \n \n \n <code>ProductSKU</code>\n \n

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</li>\n <li>\n <p>\n <code>LicenseIssuerName</code>\n </p>\n
</li>\n <li>\n <p>\n <code>LicenseArn</code>\n </p>\n </li>\n
<li>\n <p>\n
<code>GrantStatus</code>\n </p>\n </li>\n <li>\n <p>\n
<code>GranterAccountId</code>\n </p>\n </li>\n </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
        "type": "structure",
        "members": {
          "Grants": {

          "target": "com.amazonaws.licensemanager#GrantList",
            "traits": {
              "smithy.api#documentation": "<p>Received grant details.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ListReceivedLicenses": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
        },
        "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"

 },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists received licenses.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
        "type": "structure",

   "members": {
            "LicenseArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>ProductSKU</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                    <code>Status</code>\n                </p>\n            </li>\n
<li>\n                <p>\n                    <code>Fingerprint</code>\n                </p>\n            </li>\n            <li>\n
<p>\n                    <code>IssuerName</code>\n
            </p>\n            </li>\n            <li>\n                <p>\n                    <code>Beneficiary</code>\n                </p>\n
        </li>\n        </ul>"
                }
```

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            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
        "type": "structure",
        "members": {
            "Licenses": {

"target": "com.amazonaws.licensemanager#GrantedLicenseList",
                "traits": {
                    "smithy.api#documentation": "<p>Received license details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventory": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"

  },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
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            },
            {
                "target": "com.amazonaws.licensemanager#FailedDependencyException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryRequest": {

        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#InventoryFilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>account_id</code>
 - The ID of the Amazon Web Services account that owns the resource.\n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n
    <code>application_name</code> - The name of the application. \n                Logical operators are
<code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n            </li>\n            <li>\n                <p>\n
    <code>license_included</code> - The type of license included. \n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.\n                Possible values are <code>sql-server-
```

enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n \n <code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>. \n \n \n \n <code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. \n \n \n \n <code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account). \n \n "
}
}
}
},
"com.amazonaws.licensemanager#ListResourceInventoryResponse": {
"type": "structure",
"members": {
"ResourceInventoryList": {
"target": "com.amazonaws.licensemanager#ResourceInventoryList",
"traits":
{
"smithy.api#documentation": " Information about the resources. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
}
},
"com.amazonaws.licensemanager#ListTagsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"

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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the tags for the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required":
 {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the tags.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
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            },
            {
                "target":
 "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
            "TokenIds": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Token IDs.</p>"
                }
            },
            "Filters": {
                "target":
 "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
    <ul>\n            <li>\n                <p>\n                    <code>LicenseArns</code>\n                </p>\n            </li>\n
</ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
```

```
            }
        }
    },
    "com.amazonaws.licensemanager#ListTokensResponse":
{
        "type": "structure",
        "members": {
            "Tokens": {
                "target": "com.amazonaws.licensemanager#TokenList",
                "traits": {
                    "smithy.api#documentation": "<p>Received token details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
```

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        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying license\n        consumption details by resource
 at a selected point in time. Use this action to audit the\n        current license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {

                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n                <code>resourceArn</code> - The ARN of the license configuration resource.\n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>).
 \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                <code>resourceAccount</code> - The ID of the account that owns the resource. \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
                }
            }
```

```
    }
},
"com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
    "type": "structure",
    "members": {
        "LicenseConfigurationUsageList": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license configurations.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanager#Location": {
    "type": "string"
},
"com.amazonaws.licensemanager#Long": {
    "type": "long",
    "traits": {
        "smithy.api#box": {}
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummary": {
    "type": "structure",
    "members": {
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
            }
        },
        "AssociationCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                 "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
},
```

"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {
    "type": "integer",
    "traits": {
        "smithy.api#box": {},
        "smithy.api#range": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": " The key name. "
            }
        },
        "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": " The value. "
            }
        }
    },
    "traits": {

"smithy.api#documentation": " Describes key/value pairs. "
}

},
"com.amazonaws.licensemanager#MetadataList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Metadata"
}
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#OrganizationConfiguration": {
"type": "structure",
"members": {
"EnableIntegration": {
"target": "com.amazonaws.licensemanager#Boolean",

"traits": {
"smithy.api#documentation": " Enables Organizations integration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Configuration information for Organizations. "
}
},
"com.amazonaws.licensemanager#PrincipalArnList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#Arn"
},
"traits": {
"smithy.api#length": {
"min": 1,

"max": 1
}
}
},
"com.amazonaws.licensemanager#ProductInformation": {
"type": "structure",
"members": {
"ResourceType": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterList": {
"target": "com.amazonaws.licensemanager#ProductInformationFilterList",
"traits": {
"smithy.api#documentation": " A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> -

The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n
<code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n
<code>ols</code> | \n <code>olap</code>. \n \n ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information for a license configuration. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
"type": "structure",
"members": {
"ProductInformationFilterName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Filter name. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterValue": {
"target":
"com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " Filter value. "
}
},
"ProductInformationFilterComparator": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Logical operator. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information filters. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ProductInformationFilter"

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        }
    },
    "com.amazonaws.licensemanager#ProductInformationList": {
        "type": "list",

       "member": {
            "target": "com.amazonaws.licensemanager#ProductInformation"
        }
    },
    "com.amazonaws.licensemanager#ProvisionalConfiguration": {
        "type": "structure",
        "members": {
            "MaxTimeToLiveInMinutes": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#RateLimitExceededException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"

       }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "RateLimitExceeded",
                "httpResponseCode": 429
            },
            "smithy.api#documentation": "<p>Too many requests have been submitted. Try again after a brief
wait.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 429
        }
    },
    "com.amazonaws.licensemanager#ReceivedMetadata": {
        "type": "structure",
        "members": {
            "ReceivedStatus": {
                "target": "com.amazonaws.licensemanager#ReceivedStatus",
```

"traits": {
"smithy.api#documentation": " Received status. "
}
},
"ReceivedStatusReason": {
"target": "com.amazonaws.licensemanager#StatusReasonMessage",
"traits": {

"smithy.api#documentation": " Received status reason. "
}
},
"AllowedOperations": {
"target": "com.amazonaws.licensemanager#AllowedOperationList",
"traits": {
"smithy.api#documentation": " Allowed operations. "
}
}
},
"traits": {
"smithy.api#documentation": " Metadata associated with received licenses and grants. "
}
},
"com.amazonaws.licensemanager#ReceivedStatus": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "PENDING_WORKFLOW",
"name": "PENDING_WORKFLOW"
},
{
"value": "PENDING_ACCEPT",
"name": "PENDING_ACCEPT"
},
{
"value": "REJECTED",
"name": "REJECTED"
},
{
"value": "ACTIVE",
"name": "ACTIVE"
},
{
"value": "FAILED_WORKFLOW",
"name": "FAILED_WORKFLOW"
},
{
"value": "DELETED",

"name": "DELETED"
},
{
"value": "DISABLED",
"name": "DISABLED"
},
{
"value": "WORKFLOW_COMPLETED",
"name": "WORKFLOW_COMPLETED"
}
]
}
},
"com.amazonaws.licensemanager#RedirectException": {
"type": "structure",
"members": {

"Location": {
"target": "com.amazonaws.licensemanager#Location",
"traits": {
"smithy.api#httpHeader": "Location"
}
},
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " This is not the correct Region for the resource. Try again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 308
}
},
"com.amazonaws.licensemanager#RejectGrant": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#RejectGrantRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#RejectGrantResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

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            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#RejectGrantRequest":
{
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
```

```
            }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#RenewType": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "value": "None",
                    "name": "NONE"
                },
                {
                    "value": "Weekly",
                    "name": "WEEKLY"
                },
                {
                    "value": "Monthly",
                    "name": "MONTHLY"
                }
            ]
        }
    },
    "com.amazonaws.licensemanager#ReportContext": {
        "type": "structure",
        "members": {

  "licenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration that
this generator reports on.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details of the license configuration that this generator reports on.</p>"
        }
    },
    "com.amazonaws.licensemanager#ReportFrequency": {
        "type": "structure",
```

"members": {
"value": {
"target": "com.amazonaws.licensemanager#Integer",
"traits": {
"smithy.api#documentation": " Number of times within the frequency period that a report is generated. \n The only supported value is <code>1</code>. "

}
},
"period": {
"target": "com.amazonaws.licensemanager#ReportFrequencyType",
"traits": {
"smithy.api#documentation": " Time period between each report. The period can be daily, weekly, or monthly. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about how frequently reports are generated. "
}
},
"com.amazonaws.licensemanager#ReportFrequencyType": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "DAY",
"name": "DAY"
},
{
"value": "WEEK",
"name": "WEEK"
},
{
"value": "MONTH",

"name": "MONTH"
}
]
}
},
"com.amazonaws.licensemanager#ReportGenerator": {
"type": "structure",
"members": {
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Name of the report generator. "

```
        }
    },
    "ReportType": {
        "target": "com.amazonaws.licensemanager#ReportTypeList",
        "traits": {
            "smithy.api#documentation": "<p>Type of reports that are generated.</p>"
        }
    },
    "ReportContext": {
        "target": "com.amazonaws.licensemanager#ReportContext",
        "traits": {
            "smithy.api#documentation": "<p>License configuration type for this generator.</p>"
         }
    },
    "ReportFrequency": {
        "target": "com.amazonaws.licensemanager#ReportFrequency",
        "traits": {
            "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
        }
    },
    "LicenseManagerReportGeneratorArn": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>"
        }
    },
    "LastRunStatus": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Status of the last report generation attempt.</p>"
        }
    },
    "LastRunFailureReason": {

  "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Failure message for the last report generation attempt.</p>"
        }
    },
    "LastReportGenerationTime": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Time the last report was generated at.</p>"
        }
    },
    "ReportCreatorAccount": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
```

"smithy.api#documentation": " The Amazon Web Services account ID used to create the report generator. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

"smithy.api#documentation": " Description of the report generator. "
}
},
"S3Location": {
"target": "com.amazonaws.licensemanager#S3Location",
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"CreateTime": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Time the report was created. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags associated with the report generator. "
}
}
},

"traits": {
"smithy.api#documentation": " Describe the details of a report generator. "
}
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ReportGenerator"
}
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100

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        }
    }
},
"com.amazonaws.licensemanager#ReportType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "LicenseConfigurationSummaryReport",
                "name": "LICENSE_CONFIGURATION_SUMMARY_REPORT"
            },
            {
                "value": "LicenseConfigurationUsageReport",
                 "name": "LICENSE_CONFIGURATION_USAGE_REPORT"
            }
        ]
    }
},
"com.amazonaws.licensemanager#ReportTypeList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportType"
    }
},
"com.amazonaws.licensemanager#ResourceInventory": {
    "type": "structure",
    "members": {
        "ResourceId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>ID of the resource.</p>"
            }
        },
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Type of resource.</p>"
            }
        },
         "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
        },
        "Platform": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
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"smithy.api#documentation": " Platform of the resource. "
}
},
"PlatformVersion": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Platform version of the resource in the inventory. "
}
},
"ResourceOwningAccountId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation":
" ID of the account that owns the resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about a resource. "
}
},
"com.amazonaws.licensemanager#ResourceInventoryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#ResourceInventory"
}
},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "ResourceLimitExceeded",
"httpResponseCode": 400
},
"smithy.api#documentation": " Your resource limits have
been exceeded. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
"type": "structure",
"members": {

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        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "InvalidResource.NotFound",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The resource cannot be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceType": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "value": "EC2_INSTANCE",
                 "name": "EC2_INSTANCE"
            },
            {
                "value": "EC2_HOST",
                "name": "EC2_HOST"
            },
            {
                "value": "EC2_AMI",
                "name": "EC2_AMI"
            },
            {
                "value": "RDS",
                "name": "RDS"
            },
            {
                "value": "SYSTEMS_MANAGER_MANAGED_INSTANCE",
                "name": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
            }
        ]
    }
},
"com.amazonaws.licensemanager#S3Location": {
    "type": "structure",
    "members": {
        "bucket": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the S3 bucket
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reports are published to. "
}
},
"keyPrefix": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Prefix of the S3 bucket reports are published to. "
}
}
},
"traits": {
"smithy.api#documentation": " Details of the S3 bucket that report generator reports are published to. "
}
},
"com.amazonaws.licensemanager#ServerInternalException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"aws.protocols#awsQueryError": {
"code": "InternalError",
"httpResponseCode": 500
},
"smithy.api#documentation": " The server experienced an internal error. Try again. ",
"smithy.api#error": "server",
"smithy.api#httpError": 500
}
},
"com.amazonaws.licensemanager#SignedToken": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 4096
}
}
},
"com.amazonaws.licensemanager#StatusReasonMessage": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 400
},

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            "smithy.api#pattern": "^[\\s\\S]+$"
        }
    },
    "com.amazonaws.licensemanager#String": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"

      }
    },
    "com.amazonaws.licensemanager#Tag": {
        "type": "structure",
        "members": {
            "Key": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag key.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#TagList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Tag"
        }
    },
    "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
```

```
        "input": {
            "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },

  {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>One or more tags.</p>",
                    "smithy.api#required":
 {}
                }
            }
        }
```

```
    },
    "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
            "TokenType": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>"
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
            },
            "ExpirationTime": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Token expiration time, in ISO8601-UTC format.</p>"
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Data specified by the caller.</p>"
                }
            },
            "RoleArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the roles included in the
token.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#String",
```

"traits": {
"smithy.api#documentation": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes a token. "
}
},
"com.amazonaws.licensemanager#TokenList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanager#TokenData"
}
},
"com.amazonaws.licensemanager#TokenString": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 4096
},
"smithy.api#pattern": "^\\S+$"
}
},
"com.amazonaws.licensemanager#TokenType": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"value": "REFRESH_TOKEN",
"name": "REFRESH_TOKEN"
}
]
}
},
"com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The digital signature method is unsupported. Try your request again. ",

"smithy.api#error": "client",
"smithy.api#httpError": 400
}
},
"com.amazonaws.licensemanager#UntagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UntagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Removes the specified tags from the specified license configuration. "
}
},
"com.amazonaws.licensemanager#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanager#TagKeyList",

```
            "traits": {
                "smithy.api#documentation": "<p>Keys identifying the tags to remove.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanager#UntagResourceResponse": {
    "type": "structure",
    "members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseConfiguration": {

    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
    }
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
    "type": "structure",
    "members": {
        "LicenseConfigurationArn": {
```

"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. ",
"smithy.api#required": {}
}
},
"LicenseConfigurationStatus": {
"target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
"traits": {
"smithy.api#documentation": " New status of the license configuration. "
}
},
"LicenseRules": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " New license rule. The only rule that you can add after you create a license\n configuration is licenseAffinityToHost. "
}
},
"LicenseCount": {
"target": "com.amazonaws.licensemanager#BoxLong",
"traits": {
"smithy.api#documentation": " New number of licenses managed by the license configuration. "
}
},
"LicenseCountHardLimit": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " New hard limit of the number of available licenses. "
}

},
"Name": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New name of the license configuration. "
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " New description of the license configuration. "
}
},
"ProductInformationList": {
"target": "com.amazonaws.licensemanager#ProductInformationList",

"traits": {
"smithy.api#documentation": " New product information. "
}
},
"DisassociateWhenNotFound": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},

{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
},

{
"target": "com.amazonaws.licensemanager#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates a report generator. \n After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated. "

}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
"type": "structure",
"members": {
"LicenseManagerReportGeneratorArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the report generator to update. ",
"smithy.api#required": {}
}
},
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation": " Type of reports to generate. The following report types are supported: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " The report context. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",

"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#InvalidResourceStateException"

```
        },
            {
                "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p> \n        <p>You can update the license specifications of AMIs, instances, and
hosts.\n        You cannot update the license specifications for launch templates and CloudFormation templates, \n
  as they send license configurations to the operation that creates the resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
        "type": "structure",
         "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "AddLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
                }
            },
            "RemoveLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to remove.</p>"
                }
            }
         }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanager#UpdateServiceSettings": {
```

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#RateLimitExceededException"
},
{
"target": "com.amazonaws.licensemanager#ServerInternalException"
}
],
"traits": {
"smithy.api#documentation": " Updates License Manager settings for the current Region. "
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
"type": "structure",
"members": {
"S3BucketArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon S3 bucket where the License Manager information is stored. "
}
},
"SnsTopicArn": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
}
},
"OrganizationConfiguration": {
"target": "com.amazonaws.licensemanager#OrganizationConfiguration",
"traits": {

"smithy.api#documentation": " Enables integration with Organizations for cross-account discovery. "
}
},
"EnableCrossAccountsDiscovery": {
"target": "com.amazonaws.licensemanager#BoxBoolean",
"traits": {
"smithy.api#documentation": " Activates cross-account discovery. "
}
}
}
},
"com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanager#UsageOperation": {
"type":
"string",
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
}
}
},
"com.amazonaws.licensemanager#ValidationException": {
"type": "structure",
"members": {
"Message": {
"target": "com.amazonaws.licensemanager#Message"
}
},
"traits": {
"smithy.api#documentation": " The provided input is not valid. Try your request again. ",
"smithy.api#error": "client",
"smithy.api#httpError": 400
}
}
}
}

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string
```

```
 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 //
 Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
```

```
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err
!= nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
```

```
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return
 nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
```

```
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
```

```
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
 err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
```

```
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

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import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if
 err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
```

```
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}
```

1.5468 asynckit 0.4.0

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1.5469 tmp 0.0.33

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1.5470 dbus-python 1.2.18

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Any executables containing that work also fall under Section 6,
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#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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* Regular
expression support

regexp/jimregexp.[ch]:

Originally:

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Subsequently modified by:

1986 John Gilmore hoptoad!gnu
1987 James A. Woods ames!jaw
1993 Christopher Seiwald seiwald@vix.com
2000, 2002 Christopher Seiwald <seiwald@perforce.com>
2010 Steve Bennett <steveb@workware.net.au>
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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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* Regular
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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1993 Christopher Seiwald seiwald@vix.com
2000, 2002 Christopher Seiwald <seiwald@perforce.com>
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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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* Regular
expression support

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Subsequently modified by:

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1987 James A. Woods ames!jaw
1993 Christopher Seiwald seiwald@vix.com
2000, 2002 Christopher Seiwald <seiwald@perforce.com>
2010 Steve Bennett <steveb@workware.net.au>
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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.5482 netifaces 0.11.0

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1.5484 setuptools-rust 1.11.1

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1.5485 go-logging 1.9.0

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package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
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```

```
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
```

```
  }),
 },
 Insert: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 List: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 SetIamPolicy: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 TestIamPermissions: []gax.CallOption{
  gax.WithTimeout(600000
* time.Millisecond),
 },
}
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
```

```
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}
```

```
// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
```

```
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
```

```
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{"x-goog-api-client", gax.XGoogHeader(kv...)}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns
 nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }
```

```
baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

hds = append(c.xGoogHeaders, hds...)
hds
= append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil
```

```
 {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx,
 hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
```

```
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for
 a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds
```

```
 = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return
 nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
```

party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v",
 "project", url.QueryEscape(req.GetProject()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
```

```
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return
err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm
 := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
```

```
 req.MaxResults = proto.Uint32(math.MaxInt32)
} else if pageSize != 0 {
 req.MaxResults = proto.Uint32(uint32(pageSize))
}
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, "", err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.Filter != nil {
 params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
}
if req != nil && req.MaxResults != nil {
 params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
 params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req !=
nil && req.PageToken != nil {
 params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
 params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()
```

```
  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return
err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption)
 (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
```

```
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e
 := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
```

```
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx
 context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
```

```
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}
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```

```
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package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get               []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
 return &LicenseCodesCallOptions{
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  TestIamPermissions: []gax.CallOption{
```

```
   gax.WithTimeout(600000 * time.Millisecond),
  },
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient
 interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient)
 Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
```

```
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption) (*computepb.LicenseCode,
 error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions
}

// NewLicenseCodesRESTClient
 creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }
```

```
 callOpts := defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{"x-goog-api-client", gax.XGoogHeader(kv...)}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return a specified license code. License codes are
```

mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm
 := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }
```

```
  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners
 who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
```

```
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}
```

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```
package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
```

```
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()
```

```
 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
```

```
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.ListLicensesRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
 resp, err := it.Next()
 if err == iterator.Done {
  break
 }
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
}

func ExampleLicensesClient_SetIamPolicy() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range
values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.SetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
}
resp, err := c.SetIamPolicy(ctx, req)
if err != nil {
 // TODO: Handle error.
}
```

```
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown
 in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
```

```
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
```

```
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.31.0
//  protoc        v4.23.2
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb
```

```
import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
```

```
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
```

```
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":           1,
  "WRITER":          2,
  "READER":          3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
```

```
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //     tunedModels/{tuned_model}/permissions/{permission}
 //     corpora/{corpus}/permissions/{permission}
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}
```

```
func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}
```

```
var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
 0x0b, 0x67,
 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
 0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
 0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
```

```
 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
 0x64,
 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
 0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []interface{}{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
```

```
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init()
 }
func file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v interface{}, i int)
interface{} {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []interface{}{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:           file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes:
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:         file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
```

File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}

1.5486 ngtcp2 1.3.0

1.5486.1 Available under license :

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1.5487 typing-extensions 4.13.2

1.5487.1 Available under license :

A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see https://opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no

1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.5488 urllib3 2.4.0

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1.5489 qemu 6.2+dfsg-2ubuntu6.26

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John R. Hauser
2018 January 20

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```

```
*/

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{ TARGET_FREEBSD_NR_accept4, "accept4", "%s(%d,%d,%#x,%#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR_cap_rights_limit, "cap_rights_limit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chflagsat, "chflagsat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_close, "close", "%s(%d)", NULL, NULL },
```

```
{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_connectat, "connectat", "%s(%d,%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_cpuset_getdomain, "cpuset_getdomain", NULL, NULL,
 NULL },
{ TARGET_FREEBSD_NR_cpuset_setdomain, "cpuset_setdomain", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s(\"%s\",%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s(\"%s\", %d, \"%s\", %d, \"%s\"", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL
},
{
 TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL
},
{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d, %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s(\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s(\"%s\", %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_file, "extattr_set_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL
},
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL,
NULL },
{ TARGET_FREEBSD_NR_fchdir, "fchdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchflags, "fchflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchmod, "fchmod", "%s(%d,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fcntl, "fcntl",
 NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fdatasync, "fdatasync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_fhopen, "fhopen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstat, "fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fhstat, "freebsd11_fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fhstatfs, "freebsd11_fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fstat, "freebsd11_fstat", "%s(%d,%#x)", NULL, NULL },
```

```
{ TARGET_FREEBSD_NR_freebsd11_fstatat,
 "freebsd11_fstatat", "%s(%d,\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fstatfs, "freebsd11_fstatfs", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_futimens, "futimens", "%s(%d,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_futimes, "futimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_getdirentries, "freebsd11_getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getegid, "getegid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getfh, "getfh", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getfsstat, "getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_getfsstat, "freebsd11_getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getgid, "getgid",
 "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getgroups, "getgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getitimer, "getitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getlogin, "getlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpeername, "getpeername", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgid, "getpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgrp, "getpgrp", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpid, "getpid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getppid, "getppid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getrandom, "getrandom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresgid, "getresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresuid, "getresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrlimit, "getrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrusage, "getrusage", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsid, "getsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockname,
 "getsockname", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockopt, "getsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, print_ioctl, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_kevent, "freebsd11_kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen, "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s(\"%s\", %d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_lstat,
 "freebsd11_lstat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_minherit, "minherit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknodat, "mknodat", "%s(%d, \"%s\",%#o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_mknod, "freebsd11_mknod", "%s(\"%s\",%#o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_mknodat, "freebsd11_mknodat", "%s(%d, \"%s\",%#o,%#x)", NULL,
NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mount, "mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl,
 "msgctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s(\"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d, \"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd10_pipe, "freebsd10_pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pipe2, "pipe2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_posix_fallocate,
 "posix_fallocate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_profil, "profil", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s(\"%s\",%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork,
 "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d, %d, %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_get_priority_max, "sched_get_priority_max", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_get_priority_min, "sched_get_priority_min", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid",
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{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setregid, "setregid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl",
 NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending, "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL },
```

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{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_stat, "freebsd11_stat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_statfs, "freebsd11_statfs", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink",
 "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, print_sysarch, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_create, "timer_create" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_delete, "timer_delete" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_settime, "timer_settime" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_gettime, "timer_gettime" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_getoverrun, "timer_getoverrun" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)",
 NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimensat, "utimensat", "%s(%d,%s,%p,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait6, "wait6", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_posix_openpt, "posix_openpt", "%s(%d)", NULL,
 NULL },
```

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* August 3, 2017

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* April 9, 2019

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use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature,
and "Contributed-under" message.
3. Your "Contributed-under" message

explicitly states that the
contribution is made under the terms of the specified
contribution agreement. Your "Contributed-under" message
must include the name of contribution agreement and version.
For example: Contributed-under: TianoCore Contribution Agreement 1.1
The "TianoCore Contribution Agreement" is included below in
this document.

4. Submit your code to the TianoCore project using the process
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==========
= Change Description / Commit Message / Patch Email =
==========

Your change description should use the standard format for a
commit message, and must include your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch
PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [Repository/Branch PATCH]. The remaining portion of the
  commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "Repository" is the identifier of the repository the patch applies.
  This identifier should only be provided for repositories other than
  'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is
the identifier of the branch the patch applies. This
  identifier should only be provided for branches other than 'edk2/master'.
  For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or
  'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For
  example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or
  'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
  the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is
  made under the terms of the contribution agreement. This
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to be provided, unless otherwise noted, shall be in the
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```
  ======================
  = Code Contributions =
  ======================

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  1. Create a change description in the format specified below to
     use in the source control commit log.
  2. Your commit message must include your "Signed-off-by" signature,
     and "Contributed-under" message.
  3. Your "Contributed-under" message explicitly states that the
     contribution is made under the terms of the specified
     contribution agreement.  Your "Contributed-under" message
     must include the name of contribution
agreement and version.
     For example: Contributed-under: TianoCore Contribution Agreement 1.0
     The "TianoCore Contribution Agreement" is included below in
     this document.
  4. Submit your code to the TianoCore project using the process
     that the project documents on its web page.  If the process is
     not documented, then submit the code on development email list
     for the project.
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     copyright license as the base project. When that is not possible,
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     * Zlib: http://opensource.org/licenses/Zlib

     Contributions of code put into the public domain can also
be
     accepted.

     Contributions using other licenses might be accepted, but further
     review will be required.

  ======================================================
  = Change Description / Commit Message / Patch Email =
  ======================================================

  Your change description should use the standard format for a
  commit message, and must include your "Signed-off-by" signature
  and the "Contributed-under" message.

  == Sample Change Description / Commit Message =
```

```
=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or
attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [PATCH]. The remaining portion of the commit message
  is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short idenfier for the affected code.  For
  example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
  the change.  Each line should be less than ~70 characters.
* "Contributed-under" explicitely states that the contribution is
  made under the terms of the contribtion agreement.  This
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John R. Hauser
2018 January 20

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*
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```
* by Eric Young (eay@cryptsoft.com).
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TARGET_ARCH=x86_64
TARGET_BASE_ARCH=i386
TARGET_XML_FILES= gdb-xml/i386-64bit.xml
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bsd_user_ss.add(files(
 'os-sys.c',
))

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Index: debug.c
===

```
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c 7 Sep 2007 10:01:21 -0000 1.1
+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3
@@ -52,7 +52,11 @@
void X86EMU_trace_regs (void)
{
   if (DEBUG_TRACE()) {
-       x86emu_dump_regs();
+ if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+        x86emu_dump_xregs();
+ } else {
+        x86emu_dump_regs();
+ }
   }
   if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
       printk("%04x:%04x ",M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
   for (i=0; i< M.x86.enc_pos; i++) {
       sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
   }
-   printk("%-20s",buf1);
+    printk("%-20s ",buf1);
}

static void print_decoded_instruction (void)
Index: ops2.c
===================================================================
RCS file:
 /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops2.c 20 Mar 2008 15:48:34 -0000 1.3
@@ -149,8 +149,69 @@
   target += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", target);
   TRACE_AND_STEP();
-   if (cond)
+    if (cond) {
       M.x86.R_IP = (u16)target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+    }
+    DECODE_CLEAR_SEGOVR();
+    END_OF_INSTR();
```

```
+}
+
+/****************************************************************************
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+****************************************************************************/
+s32 x86emu_bswap(s32 reg)
+{
+   // perform the byte swap
+   s32 temp = reg;
+   reg = (temp & 0xFF000000) >> 24;
+   reg |= (temp & 0xFF0000) >> 8;
+   reg |= (temp & 0xFF00) << 8;
+   reg |= (temp & 0xFF) << 24;
+   return reg;
+}
+
+void x86emuOp2_bswap(u8 op2)
+{
+
   /* byte swap 32 bit register */
+    START_OF_INSTR();
+    DECODE_PRINTF("BSWAP\t");
+    switch (op2) {
+      case 0xc8:
+        DECODE_PRINTF("EAX\n");
+        M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+        break;
+      case 0xc9:
+        DECODE_PRINTF("ECX\n");
+        M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
+        break;
+      case 0xca:
+        DECODE_PRINTF("EDX\n");
+        M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+        break;
+      case 0xcb:
+        DECODE_PRINTF("EBX\n");
+        M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+        break;
+      case 0xcc:
+        DECODE_PRINTF("ESP\n");
+        M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+        break;
+      case 0xcd:
+        DECODE_PRINTF("EBP\n");
+        M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+        break;
```

```
+      case 0xce:
+        DECODE_PRINTF("ESI\n");
+        M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
+        break;
+      case 0xcf:
+        DECODE_PRINTF("EDI\n");
+        M.x86.R_EDI
 = x86emu_bswap(M.x86.R_EDI);
+        break;
+    }
+    TRACE_AND_STEP();
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -1702,14 +1763,14 @@
/*  0xc5 */ x86emuOp2_illegal_op,
/*  0xc6 */ x86emuOp2_illegal_op,
/*  0xc7 */ x86emuOp2_illegal_op,
-/*  0xc8 */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xc9 */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xca */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcb */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcc */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcd */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xce */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcf */ x86emuOp2_illegal_op,  /* TODO: bswap */
+/*  0xc8 */ x86emuOp2_bswap,
+/*  0xc9 */ x86emuOp2_bswap,
+/*  0xca */ x86emuOp2_bswap,
+/*  0xcb */ x86emuOp2_bswap,
+/*  0xcc */ x86emuOp2_bswap,
+/*  0xcd */ x86emuOp2_bswap,
+/*  0xce */ x86emuOp2_bswap,
+/*  0xcf */ x86emuOp2_bswap,

/*  0xd0 */ x86emuOp2_illegal_op,
/*  0xd1 */ x86emuOp2_illegal_op,
Index:
 ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops.c 20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
    imm = (s8)fetch_byte_imm();
    DECODE_PRINTF2("PUSH\t%d\n", imm);
```

```
   TRACE_AND_STEP();
-   push_word(imm);
+   if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+       push_long(imm);
+   } else {
+       push_word(imm);
+   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@
   target = (u16)(M.x86.R_IP + (s16)offset);
   DECODE_PRINTF2("%x\n", target);
   TRACE_AND_STEP();
-   if (cond)
+   if (cond) {
       M.x86.R_IP = target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
   count = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE))
 {
       /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
       M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX = 0;
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   }
   while (count--) {
@@ -2526,6 +2534,8 @@
       store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
       M.x86.R_SI += inc;
       M.x86.R_DI += inc;
+       if (M.x86.intr & INTR_HALTED)
+           break;
   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -2559,9 +2569,11 @@
   count = 1;
```

```
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* dont care whether REPE or REPNE */
-      /* move them until CX is ZERO. */
-      count = M.x86.R_CX;
+      /* move them until (E)CX is ZERO. */
+      count = (M.x86.mode
 & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
      M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+          M.x86.R_ECX = 0;
      M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   }
   while (count--) {
@@ -2574,6 +2586,8 @@
      }
      M.x86.R_SI += inc;
      M.x86.R_DI += inc;
+      if (M.x86.intr & INTR_HALTED)
+          break;
   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -2598,16 +2612,21 @@

   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* REPE  */
-      /* move them until CX is ZERO. */
-      while (M.x86.R_CX != 0) {
+      /* move them until (E)CX is ZERO. */
+      while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
         val1 = fetch_data_byte(M.x86.R_SI);
         val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_byte(val1, val2);
-         M.x86.R_CX -= 1;
+         if (M.x86.mode & SYSMODE_32BIT_REP)
+
            M.x86.R_ECX -= 1;
+         else
+             M.x86.R_CX -= 1;
         M.x86.R_SI += inc;
         M.x86.R_DI += inc;
         if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
         if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+         if (M.x86.intr & INTR_HALTED)
+             break;
      }
      M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   } else {
```

```
@@ -2644,8 +2663,8 @@
   TRACE_AND_STEP();
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* REPE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          if (M.x86.mode & SYSMODE_PREFIX_DATA) {
             val1 = fetch_data_long(M.x86.R_SI);
             val2 = fetch_data_long_abs(M.x86.R_ES,
 M.x86.R_DI);
@@ -2655,11 +2674,16 @@
             val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
             cmp_word((u16)val1, (u16)val2);
          }
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+             M.x86.R_ECX -= 1;
+          else
+             M.x86.R_CX -= 1;
          M.x86.R_SI += inc;
          M.x86.R_DI += inc;
          if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
          if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+          if (M.x86.intr & INTR_HALTED)
+             break;
      }
      M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   } else {
@@ -2741,11 +2765,16 @@
   TRACE_AND_STEP();
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /*
 move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+             M.x86.R_ECX -= 1;
+          else
+             M.x86.R_CX -= 1;
          M.x86.R_DI += inc;
+          if (M.x86.intr & INTR_HALTED)
+             break;
```

```
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
@@ -2783,9 +2812,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX = 0;

     M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2795,6 +2826,8 @@
            store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
        }
        M.x86.R_DI += inc;
+       if (M.x86.intr & INTR_HALTED)
+           break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2817,11 +2850,16 @@
        inc = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
-           M.x86.R_CX -= 1;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+               M.x86.R_ECX -= 1;
+           else
+               M.x86.R_CX -= 1;
            M.x86.R_SI += inc;
+           if (M.x86.intr & INTR_HALTED)
+
                break;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
```

```
@@ -2859,9 +2897,11 @@
   count = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* dont care whether REPE or REPNE */
-      /* move them until CX is ZERO. */
-      count = M.x86.R_CX;
+      /* move them until (E)CX is ZERO. */
+      count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
      M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+          M.x86.R_ECX = 0;
      M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   }
   while (count--) {
@@ -2871,6 +2911,8 @@
         M.x86.R_AX = fetch_data_word(M.x86.R_SI);
      }
      M.x86.R_SI += inc;
+      if (M.x86.intr & INTR_HALTED)
+          break;
   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -2894,26 +2936,36 @@
      inc = 1;
   if (M.x86.mode & SYSMODE_PREFIX_REPE) {
      /*
 REPE  */
-      /* move them until CX is ZERO. */
-      while (M.x86.R_CX != 0) {
+      /* move them until (E)CX is ZERO. */
+      while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
         val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
         cmp_byte(M.x86.R_AL, val2);
-         M.x86.R_CX -= 1;
+         if (M.x86.mode & SYSMODE_32BIT_REP)
+             M.x86.R_ECX -= 1;
+         else
+             M.x86.R_CX -= 1;
         M.x86.R_DI += inc;
         if (ACCESS_FLAG(F_ZF) == 0)
            break;
+         if (M.x86.intr & INTR_HALTED)
+             break;
      }
      M.x86.mode &= ~SYSMODE_PREFIX_REPE;
   } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
      /* REPNE  */
```

```
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {

          val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
          cmp_byte(M.x86.R_AL, val2);
-         M.x86.R_CX -= 1;
+         if (M.x86.mode & SYSMODE_32BIT_REP)
+             M.x86.R_ECX -= 1;
+         else
+             M.x86.R_CX -= 1;
          M.x86.R_DI += inc;
          if (ACCESS_FLAG(F_ZF))
              break;          /* zero flag set means equal */
+         if (M.x86.intr & INTR_HALTED)
+             break;
       }
       M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
   } else {
@@ -2951,8 +3003,8 @@
   TRACE_AND_STEP();
   if (M.x86.mode & SYSMODE_PREFIX_REPE) {
       /* REPE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          if (M.x86.mode & SYSMODE_PREFIX_DATA) {
              val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
              cmp_long(M.x86.R_EAX,
 val);
@@ -2960,16 +3012,21 @@
              val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
              cmp_word(M.x86.R_AX, (u16)val);
          }
-         M.x86.R_CX -= 1;
+         if (M.x86.mode & SYSMODE_32BIT_REP)
+             M.x86.R_ECX -= 1;
+         else
+             M.x86.R_CX -= 1;
          M.x86.R_DI += inc;
          if (ACCESS_FLAG(F_ZF) == 0)
              break;
+         if (M.x86.intr & INTR_HALTED)
+             break;
       }
       M.x86.mode &= ~SYSMODE_PREFIX_REPE;
```

```
   } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
      /* REPNE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          if (M.x86.mode & SYSMODE_PREFIX_DATA) {
             val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
             cmp_long(M.x86.R_EAX,
 val);
@@ -2977,10 +3034,15 @@
             val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
             cmp_word(M.x86.R_AX, (u16)val);
          }
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+             M.x86.R_ECX -= 1;
+          else
+             M.x86.R_CX -= 1;
          M.x86.R_DI += inc;
          if (ACCESS_FLAG(F_ZF))
             break;         /* zero flag set means equal */
+          if (M.x86.intr & INTR_HALTED)
+             break;
       }
      M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
   } else {
@@ -3238,9 +3300,9 @@
   DECODE_PRINTF("RET\t");
   imm = fetch_word_imm();
   DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
 TRACE_AND_STEP();
   M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
   M.x86.R_SP += imm;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -3254,9 +3316,9
 @@
{
   START_OF_INSTR();
   DECODE_PRINTF("RET\n");
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
 TRACE_AND_STEP();
   M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
   DECODE_CLEAR_SEGOVR();
```

```
   END_OF_INSTR();
}
@@ -3471,10 +3533,10 @@
   DECODE_PRINTF("RETF\t");
   imm = fetch_word_imm();
   DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
 TRACE_AND_STEP();
   M.x86.R_IP = pop_word();
   M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
   M.x86.R_SP += imm;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
   START_OF_INSTR();
   DECODE_PRINTF("RETF\n");
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
 TRACE_AND_STEP();
   M.x86.R_IP = pop_word();
   M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
   DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
   ip += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
   TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF))      /* CX != 0 and !ZF */
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.R_ECX -= 1;
+   else
+       M.x86.R_CX -= 1;
+   if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
!ACCESS_FLAG(F_ZF))      /* (E)CX != 0 and !ZF */
       M.x86.R_IP = ip;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -4041,8 +4106,11 @@
   ip += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
   TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF))       /* CX != 0 and ZF */
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
```

```
+       M.x86.R_ECX -= 1;
+    else
+       M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
ACCESS_FLAG(F_ZF))      /* (E)CX != 0 and ZF */
        M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4062,8 +4130,11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
-    if (M.x86.R_CX != 0)
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.R_ECX -= 1;
+    else
+       M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0)      /* (E)CX != 0 */
       M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4085,8 +4156,10 @@
    target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
    TRACE_AND_STEP();
-    if (M.x86.R_CX == 0)
+    if (M.x86.R_CX == 0) {
       M.x86.R_IP = target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4213,6 +4286,7 @@
    ip = (s16)fetch_word_imm();
    ip += (s16)M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs,
 M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = (u16)ip;
    DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
    cs = fetch_word_imm();
    DECODE_PRINTF2("%04x:", cs);
    DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
```

```
   TRACE_AND_STEP();
   M.x86.R_IP = ip;
   M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
   offset = (s8)fetch_byte_imm();
   target = (u16)(M.x86.R_IP + offset);
   DECODE_PRINTF2("%x\n", target);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
   TRACE_AND_STEP();
   M.x86.R_IP = target;
   DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
   DECODE_PRINTF("REPNE\n");
   TRACE_AND_STEP();
   M.x86.mode |= SYSMODE_PREFIX_REPNE;
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.mode |= SYSMODE_32BIT_REP;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
   DECODE_PRINTF("REPE\n");
   TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPE;
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.mode |= SYSMODE_32BIT_REP;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
           break;
       case 4:        /* jmp word ptr ... */
           destval = fetch_data_word(destoffset);
+           JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
           TRACE_AND_STEP();
           M.x86.R_IP = destval;
           break;
       case 5:        /* jmp far ptr ... */
           destval = fetch_data_word(destoffset);
           destval2 = fetch_data_word(destoffset + 2);
+           JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
           TRACE_AND_STEP();
           M.x86.R_IP = destval;
           M.x86.R_CS = destval2;
Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision
```

```
 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ prim_ops.c 16 Jan 2008 14:18:15 -0000 1.3
@@ -1921,7 +1921,7 @@
void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
{
#ifdef  __HAS_LONG_LONG__
-    s64 res = (s64)d * (s64)s;
+    s64 res = (s64)(s32)d * (s64)(s32)s;

    *res_lo = (u32)res;
    *res_hi = (u32)(res >> 32);
@@ -2013,7 +2013,7 @@
void mul_long(u32 s)
{
#ifdef  __HAS_LONG_LONG__
-    u64 res = (u32)M.x86.R_EAX * (u32)s;
+    u64 res = (u64)M.x86.R_EAX * s;

    M.x86.R_EAX = (u32)res;
    M.x86.R_EDX = (u32)(res >> 32);
@@ -2312,16 +2312,15 @@
    }
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* in until CX is ZERO. */
-       u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+       /* in until (E)CX is ZERO. */
+       u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
                    M.x86.R_ECX : M.x86.R_CX);
-
        while (count--) {
         single_in(size);
         M.x86.R_DI += inc;
         }
        M.x86.R_CX = 0;
-       if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+       if (M.x86.mode & SYSMODE_32BIT_REP) {
           M.x86.R_ECX = 0;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
@@ -2355,15 +2354,15 @@
    }
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* out until CX is ZERO. */
```

```
-       u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+       /* out until (E)CX is ZERO. */
+       u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
                M.x86.R_ECX : M.x86.R_CX);
        while (count--) {
          single_out(size);
          M.x86.R_SI += inc;
          }
        M.x86.R_CX = 0;
-       if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+       if (M.x86.mode & SYSMODE_32BIT_REP) {
            M.x86.R_ECX = 0;
        }
        M.x86.mode
 &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
Index: sys.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
retrieving revision 1.1
retrieving revision 1.2
diff -u -u -r1.1 -r1.2
--- sys.c 7 Sep 2007 10:01:21 -0000 1.1
+++ sys.c 7 Sep 2007 10:03:13 -0000 1.2
@@ -45,11 +45,6 @@
#include <x86emu/regs.h>
#include "debug.h"
#include "prim_ops.h"
-#ifdef LINUXBIOS_VERSION
-#include "io.h"
-#else
-#include <sys/io.h>
-#endif

#ifdef IN_MODULE
#include "xf86_ansic.h"
@@ -220,7 +215,7 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("inb %#04x \n", addr);)
- return inb(addr);
+ return 0;
}

/*****************************************************************************
@@ -235,7 +230,7 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("inw %#04x \n", addr);)
```

```
- return inw(addr);
+ return 0;
}

/*****************************************************************************
@@ -250,7 +245,7 @@
{
 DB(if (DEBUG_IO_TRACE())
   printk("inl %#04x \n", addr);)
- return inl(addr);
+ return 0;
}

/*****************************************************************************
@@ -264,7 +259,6 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("outb %#02x -> %#04x \n", val, addr);)
- outb(val, addr);
 return;
}

@@ -279,7 +273,6 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("outw %#04x -> %#04x \n", val, addr);)
- outw(val, addr);
 return;
}

@@ -295,7 +288,6 @@
 DB(if (DEBUG_IO_TRACE())
       printk("outl %#08x -> %#04x \n", val, addr);)

- outl(val, addr);
 return;
}

@@ -405,6 +397,6 @@

void X86EMU_setMemBase(void *base, size_t size)
{
- M.mem_base = (int) base;
+ M.mem_base = (unsigned long) base;
 M.mem_size = size;
}
Index: include/x86emu/debug.h
===================================================================
```

```
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h 7
 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/debug.h 20 Mar 2008 15:25:27 -0000 1.4
@@ -40,8 +40,6 @@
#ifndef __X86EMU_DEBUG_H
#define __X86EMU_DEBUG_H

-//#define DEBUG 0
-#undef DEBUG
/*---------------------- Macros and type definitions ----------------------*/

/* checks to be enabled for "runtime" */
@@ -78,6 +76,8 @@
# define DEBUG_SYSINT()        (M.x86.debug & DEBUG_SYSINT_F)
# define DEBUG_TRACECALL()     (M.x86.debug & DEBUG_TRACECALL_F)
# define DEBUG_TRACECALLREGS()  (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+# define DEBUG_TRACEJMP()      (M.x86.debug & DEBUG_TRACEJMP_F)
+# define DEBUG_TRACEJMPREGS()   (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
# define DEBUG_SYS()           (M.x86.debug & DEBUG_SYS_F)
# define DEBUG_MEM_TRACE()     (M.x86.debug & DEBUG_MEM_TRACE_F)
# define DEBUG_IO_TRACE()      (M.x86.debug & DEBUG_IO_TRACE_F)
@@ -96,6 +96,8 @@
# define DEBUG_SYSINT()        0
# define DEBUG_TRACECALL()     0
# define DEBUG_TRACECALLREGS()  0
+# define DEBUG_TRACEJMP()
      0
+# define DEBUG_TRACEJMPREGS()   0
# define DEBUG_SYS()           0
# define DEBUG_MEM_TRACE()     0
# define DEBUG_IO_TRACE()      0
@@ -169,14 +171,20 @@
  x86emu_dump_regs();                          \
 if (DEBUG_TRACECALL())                        \
  printk("%04x:%04x: CALL %s%04x:%04x\n", u , v, s, w, x);
-# define RETURN_TRACE(n,u,v)                   \
+# define RETURN_TRACE(u,v,w,x,s)               \
 if (DEBUG_TRACECALLREGS())        \
  x86emu_dump_regs();                          \
 if (DEBUG_TRACECALL())                        \
-  printk("%04x:%04x: %s\n",u,v,n);
+  printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
+# define  JMP_TRACE(u,v,w,x,s)                 \
+   if (DEBUG_TRACEJMPREGS()) \
```

```
+      x86emu_dump_regs(); \
+   if (DEBUG_TRACEJMP()) \
+      printk("%04x:%04x: JMP %s%04x:%04x\n", u , v, s, w, x);
#else
# define CALL_TRACE(u,v,w,x,s)
-#
 define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
+# define  JMP_TRACE(u,v,w,x,s)
#endif

#ifdef DEBUG
Index: include/x86emu/regs.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/regs.h 15 Jan 2008 13:46:40 -0000 1.4
@@ -231,6 +231,9 @@
#define SYSMODE_PREFIX_REPNE    0x00000100
#define SYSMODE_PREFIX_DATA     0x00000200
#define SYSMODE_PREFIX_ADDR     0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP       0x00000800
#define SYSMODE_INTR_PENDING    0x10000000
#define SYSMODE_EXTRN_INTR      0x20000000
#define SYSMODE_HALTED          0x40000000
@@ -250,7 +253,8 @@
       SYSMODE_SEGOVR_GS      | \
      SYSMODE_SEGOVR_SS      | \
      SYSMODE_PREFIX_DATA    | \
-      SYSMODE_PREFIX_ADDR)
+      SYSMODE_PREFIX_ADDR    | \
+      SYSMODE_32BIT_REP)

#define  INTR_SYNCH          0x1
#define  INTR_ASYNCH         0x2
@@ -274,9 +278,9 @@
    */
   u32                     mode;
   volatile int            intr;   /* mask of pending interrupts */
- int                     debug;
+    volatile int                    debug;
#ifdef DEBUG
- int                     check;
```

```
+    int                     check;
    u16                     saved_ip;
    u16                     saved_cs;
    int                     enc_pos;
Index: include/x86emu/x86emu.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h 7 Sep 2007 10:01:21
 -0000 1.1
+++ include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000 1.3
@@ -47,6 +47,7 @@
#include <console.h>
#define printk(x...) printk(BIOS_DEBUG, x)
#else
+#include <stdio.h>
#define printk printf
#endif

@@ -189,6 +181,8 @@
#define DEBUG_TRACECALL_REGS_F  0x004000
#define DEBUG_DECODE_NOPRINT_F  0x008000
#define DEBUG_SAVE_IP_CS_F      0x010000
+#define DEBUG_TRACEJMP_F        0x020000
+#define DEBUG_TRACEJMP_REGS_F   0x040000
#define DEBUG_SYS_F             (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void  X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@
#ifdef  __cplusplus
}                       /* End of "C" linkage for C++    */
#endif
-
#endif /* __X86EMU_X86EMU_H */
```

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```
if not have_bsd_user
  subdir_done()
endif

bsd_user_ss.add(files(
 'bsdload.c',
 'elfload.c',
 'main.c',
 'mmap.c',
 'signal.c',
 'strace.c',
 'syscall.c',
 'uaccess.c',
))

# Pull in the OS-specific build glue, if any
subdir(targetos)
TARGET_ARCH=i386
TARGET_XML_FILES= gdb-xml/i386-32bit.xml
```
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John R. Hauser
2018 January 20

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1.5490 openstacksdk 4.5.0

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openstack/
  connection.py
  resource.py
  compute/
    compute_service.py
    v2/
      server.py
      _proxy.py
  tests/
    compute/
      v2/
```

```
            test_server.py
clouds:
 devstack:
   auth:
     auth_url: http://xxx.xxx.xxx.xxx/identity
     password: password
     project_domain_id: default
     project_name: demo
     user_domain_id: default
     username: demo
   identity_api_version: '3'
   region_name: RegionOne
   volume_api_version: '3'
 devstack-admin:
   auth:
     auth_url: http://xxx.xxx.xxx.xxx/identity
     password: password
     project_domain_id: default
     project_name: admin
     user_domain_id: default
     username: admin
   identity_api_version: '3'
   region_name: RegionOne
   volume_api_version: '3'
 devstack-alt:
   auth:
     auth_url: http://xxx.xxx.xxx.xxx/identity
     password: password
     project_domain_id: default
     project_name: alt_demo
     user_domain_id: default
     username: alt_demo
   identity_api_version: '3'
   region_name: RegionOne
   volume_api_version: '3'
example:
 image_name: cirros-0.5.2-x86_64-disk
 flavor_name: m1.small
```

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1.5491 google-auth 2.39.0

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1.5492 rsa 4.9.1

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1.5494 kubernetes-klog v2.130.1

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1.5495 boto3 1.37.36

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boto3

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1.5496 botocore 1.37.36

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"documentation":" Creates a grant for the specified license. A grant shares the use of license entitlements with a specific Amazon Web Services account, an organization, or an organizational unit (OU). For more information, see Granted licenses in License Manager in the License Manager User Guide. "
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"documentation":" Creates a license configuration. A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance,
Dedicated Host, or all of these), license affinity to host (how long a license must be associated with a host), and the number of licenses purchased and used. "
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"documentation":" Creates a long-lived
token. A refresh token is a JWT token used to get an access token. With an access token, you can call AssumeRoleWithWebIdentity to get role credentials that you can use to call License Manager to manage the specified license. "
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"documentation":" Deletes the specified report generator. This action deletes the report generator, which stops it from generating future reports. The action cannot be reversed. It has no effect on the previous reports from this generator. "
},
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"documentation":" Deletes the specified token. Must be called in the license home Region. "

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"documentation":" Extends the expiration date for license consumption. "
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"documentation":" Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access tokens are valid for one hour. "
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},
"ListAssociationsForLicenseConfiguration":{
"name":"ListAssociationsForLicenseConfiguration",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListAssociationsForLicenseConfigurationRequest"},
"output":{"shape":"ListAssociationsForLicenseConfigurationResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"FilterLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists the resource associations for the specified license configuration. Resource associations need not consume licenses from a license configuration. For example, an AMI or a stopped instance might not consume a license (depending on the license rules). "
},
"ListDistributedGrants":{
"name":"ListDistributedGrants",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListDistributedGrantsRequest"},

"output":{"shape":"ListDistributedGrantsResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"ResourceLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists the grants distributed for the specified license. "
},
"ListFailuresForLicenseConfigurationOperations":{
"name":"ListFailuresForLicenseConfigurationOperations",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListFailuresForLicenseConfigurationOperationsRequest"},
"output":{"shape":"ListFailuresForLicenseConfigurationOperationsResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists the license configuration operations that failed. "
},
"ListLicenseConfigurations":{
"name":"ListLicenseConfigurations",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListLicenseConfigurationsRequest"},
"output":{"shape":"ListLicenseConfigurationsResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"FilterLimitExceededException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists the license configurations for your account. "
},
"ListLicenseConversionTasks":{

"name":"ListLicenseConversionTasks",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListLicenseConversionTasksRequest"},
"output":{"shape":"ListLicenseConversionTasksResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists the license type conversion tasks for your account. "
},
"ListLicenseManagerReportGenerators":{
"name":"ListLicenseManagerReportGenerators",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListLicenseManagerReportGeneratorsRequest"},
"output":{"shape":"ListLicenseManagerReportGeneratorsResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"ResourceLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"RateLimitExceededException"},
{"shape":"AccessDeniedException"},
{"shape":"ResourceNotFoundException"}
],
"documentation":" Lists the report generators for your account. "
},
"ListLicenseSpecificationsForResource":{
"name":"ListLicenseSpecificationsForResource",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListLicenseSpecificationsForResourceRequest"},
"output":{"shape":"ListLicenseSpecificationsForResourceResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},

{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Describes the license configurations for the specified resource. "
},
"ListLicenseVersions":{
"name":"ListLicenseVersions",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListLicenseVersionsRequest"},
"output":{"shape":"ListLicenseVersionsResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ServerInternalException"}
],
"documentation":" Lists all versions of the specified license. "
},
"ListLicenses":{
"name":"ListLicenses",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListLicensesRequest"},
"output":{"shape":"ListLicensesResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ServerInternalException"}
],
"documentation":" Lists the licenses for your account. "
},
"ListReceivedGrants":{
"name":"ListReceivedGrants",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListReceivedGrantsRequest"},
"output":{"shape":"ListReceivedGrantsResponse"},

"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"ResourceLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists grants that are received. Received grants are grants created while specifying the recipient as this Amazon Web Services account, your organization, or an organizational unit (OU) to which this member account belongs. "
},
"ListReceivedGrantsForOrganization":{
"name":"ListReceivedGrantsForOrganization",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListReceivedGrantsForOrganizationRequest"},
"output":{"shape":"ListReceivedGrantsForOrganizationResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"ResourceLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists the grants received for all accounts in the organization. "
},
"ListReceivedLicenses":{
"name":"ListReceivedLicenses",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListReceivedLicensesRequest"},
"output":{"shape":"ListReceivedLicensesResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"ResourceLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}

```
  ],
  "documentation":"<p>Lists received licenses.</p>"
},
"ListReceivedLicensesForOrganization":{
  "name":"ListReceivedLicensesForOrganization",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListReceivedLicensesForOrganizationRequest"},
  "output":{"shape":"ListReceivedLicensesForOrganizationResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists the licenses received for all accounts in the organization.</p>"
},
"ListResourceInventory":{
   "name":"ListResourceInventory",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListResourceInventoryRequest"},
  "output":{"shape":"ListResourceInventoryResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"FilterLimitExceededException"},
    {"shape":"FailedDependencyException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists resources managed using Systems Manager inventory.</p>"
},
"ListTagsForResource":{
  "name":"ListTagsForResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListTagsForResourceRequest"},
```

"output":{"shape":"ListTagsForResourceResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists the tags for the specified license configuration. "
},
"ListTokens":{
"name":"ListTokens",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListTokensRequest"},
"output":{"shape":"ListTokensResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ServerInternalException"}
],
"documentation":" Lists your tokens. "
},
"ListUsageForLicenseConfiguration":{
"name":"ListUsageForLicenseConfiguration",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListUsageForLicenseConfigurationRequest"},
"output":{"shape":"ListUsageForLicenseConfigurationResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"FilterLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists all license usage records for a license configuration, displaying license consumption details by resource at a selected point in time. Use this action to audit the current license consumption for any license inventory and configuration. "
},
"RejectGrant":{

"name":"RejectGrant",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"RejectGrantRequest"},
"output":{"shape":"RejectGrantResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ResourceLimitExceededException"},
{"shape":"ServerInternalException"}
],
"documentation":" Rejects the specified grant. "
},
"TagResource":{
"name":"TagResource",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"TagResourceRequest"},
"output":{"shape":"TagResourceResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Adds the specified tags to the specified license configuration. "
},
"UntagResource":{
"name":"UntagResource",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"UntagResourceRequest"},
"output":{"shape":"UntagResourceResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},

{"shape":"RateLimitExceededException"}
],
"documentation":" Removes the specified tags from the specified license configuration. "
},
"UpdateLicenseConfiguration":{
"name":"UpdateLicenseConfiguration",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"UpdateLicenseConfigurationRequest"},
"output":{"shape":"UpdateLicenseConfigurationResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ResourceLimitExceededException"}
],
"documentation":" Modifies the attributes of an existing license configuration. "
},
"UpdateLicenseManagerReportGenerator":{
"name":"UpdateLicenseManagerReportGenerator",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"UpdateLicenseManagerReportGeneratorRequest"},
"output":{"shape":"UpdateLicenseManagerReportGeneratorResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"RateLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"ResourceNotFoundException"},
{"shape":"ResourceLimitExceededException"}
],
"documentation":" Updates a report generator. After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated. "
},
"UpdateLicenseSpecificationsForResource":{
"name":"UpdateLicenseSpecificationsForResource",
"http":{
"method":"POST",
"requestUri":"/"

},
"input":{"shape":"UpdateLicenseSpecificationsForResourceRequest"},
"output":{"shape":"UpdateLicenseSpecificationsForResourceResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"InvalidResourceStateException"},
{"shape":"LicenseUsageException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Adds or removes the specified license configurations for the specified Amazon Web Services resource. You can update the license specifications of AMIs, instances, and hosts. You cannot update the license specifications
for launch templates and CloudFormation templates, as they send license configurations to the operation that creates the resource. "
},
"UpdateServiceSettings":{
"name":"UpdateServiceSettings",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"UpdateServiceSettingsRequest"},
"output":{"shape":"UpdateServiceSettingsResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Updates License Manager settings for the current Region. "
}
},
"shapes":{
"AcceptGrantRequest":{
"type":"structure",
"required":["GrantArn"],
"members":{
"GrantArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the grant. "
}
}
},
"AcceptGrantResponse":{

```
  "type":"structure",
  "members":{
    "GrantArn":{
      "shape":"Arn",
      "documentation":"<p>Grant ARN.</p>"
    },
    "Status":{
      "shape":"GrantStatus",
      "documentation":"<p>Grant status.</p>"
    },
    "Version":{
      "shape":"String",
      "documentation":"<p>Grant version.</p>"
    }
  }
},
"AccessDeniedException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>Access to resource denied.</p>",
  "exception":true
},
"ActivationOverrideBehavior":{
  "type":"string",
  "enum":[
    "DISTRIBUTED_GRANTS_ONLY",
    "ALL_GRANTS_PERMITTED_BY_ISSUER"
  ]
},
"AllowedOperation":{
  "type":"string",
  "enum":[
    "CreateGrant",
    "CheckoutLicense",
    "CheckoutBorrowLicense",
    "CheckInLicense",
    "ExtendConsumptionLicense",
     "ListPurchasedLicenses",
    "CreateToken"
  ]
},
"AllowedOperationList":{
  "type":"list",
  "member":{"shape":"AllowedOperation"},
  "max":7,
  "min":1
```

```
  },
  "Arn":{
    "type":"string",
    "max":2048,
    "pattern":"^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
  },
  "ArnList":{
    "type":"list",
    "member":{"shape":"Arn"}
  },
  "AuthorizationException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    },
    "documentation":"<p>The Amazon Web Services user account does not have permission to perform the action. Check the IAM policy associated with this account.</p>",
    "exception":true
  },
  "AutomatedDiscoveryInformation":{
    "type":"structure",
    "members":{
      "LastRunTime":{
        "shape":"DateTime",
        "documentation":"<p>Time that automated discovery last ran.</p>"
      }
    },
    "documentation":"<p>Describes automated discovery.</p>"
  },
  "Boolean":{"type":"boolean"},
  "BorrowConfiguration":{
    "type":"structure",
    "required":[
      "AllowEarlyCheckIn",
      "MaxTimeToLiveInMinutes"
    ],
    "members":{
      "AllowEarlyCheckIn":{
        "shape":"BoxBoolean",
        "documentation":"<p>Indicates whether early check-ins are allowed.</p>"
      },
      "MaxTimeToLiveInMinutes":{
        "shape":"BoxInteger",
        "documentation":"<p>Maximum time for the borrow configuration, in minutes.</p>"
      }
    },
```

"documentation":" Details about a borrow configuration. "
},
"BoxBoolean":{"type":"boolean"},
"BoxInteger":{"type":"integer"},
"BoxLong":{"type":"long"},
"CheckInLicenseRequest":{
"type":"structure",
"required":["LicenseConsumptionToken"],
"members":{
"LicenseConsumptionToken":{
"shape":"String",
"documentation":" License consumption token. "
},
"Beneficiary":{
"shape":"String",
"documentation":" License beneficiary. "
}
}
},
"CheckInLicenseResponse":{
"type":"structure",
"members":{
}
},
"CheckoutBorrowLicenseRequest":{
"type":"structure",
"required":[
"LicenseArn",
"Entitlements",
"DigitalSignatureMethod",
"ClientToken"
],
"members":{
"LicenseArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the license. The license must use the borrow consumption configuration. "
},
"Entitlements":{
"shape":"EntitlementDataList",
"documentation":" License entitlements. Partial checkouts are not supported. "
},
"DigitalSignatureMethod":{
"shape":"DigitalSignatureMethod",

"documentation":" Digital signature method. The possible value is JSON Web Signature (JWS) algorithm PS384. For more information, see RFC 7518 Digital Signature with RSASSA-PSS. "

```
      },
      "NodeId":{
        "shape":"String",
        "documentation":"<p>Node ID.</p>"
      },
      "CheckoutMetadata":{
        "shape":"MetadataList",
        "documentation":"<p>Information about constraints.</p>"
      },
      "ClientToken":{
        "shape":"ClientToken",
        "documentation":"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the
request.</p>"
      }
    }
  },
  "CheckoutBorrowLicenseResponse":{
    "type":"structure",
    "members":{
      "LicenseArn":{
        "shape":"Arn",
        "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
      },
      "LicenseConsumptionToken":{
        "shape":"String",
         "documentation":"<p>License consumption token.</p>"
      },
      "EntitlementsAllowed":{
        "shape":"EntitlementDataList",
        "documentation":"<p>Allowed license entitlements.</p>"
      },
      "NodeId":{
        "shape":"String",
        "documentation":"<p>Node ID.</p>"
      },
      "SignedToken":{
        "shape":"SignedToken",
        "documentation":"<p>Signed token.</p>"
      },
      "IssuedAt":{
        "shape":"ISO8601DateTime",
        "documentation":"<p>Date and time at which the license checkout is issued.</p>"
      },
      "Expiration":{
        "shape":"ISO8601DateTime",
        "documentation":"<p>Date and time at which the license checkout expires.</p>"
      },
      "CheckoutMetadata":{
```

"shape":"MetadataList",
"documentation":" Information about constraints. "
}
}
},
"CheckoutLicenseRequest":{
"type":"structure",
"required":[
"ProductSKU",
"CheckoutType",
"KeyFingerprint",
"Entitlements",
"ClientToken"
],
"members":{
"ProductSKU":{
"shape":"String",
"documentation":" Product SKU. "
},
"CheckoutType":{
"shape":"CheckoutType",
"documentation":" Checkout type. "
},
"KeyFingerprint":{
"shape":"String",
"documentation":" Key fingerprint identifying the license. "
},
"Entitlements":{
"shape":"EntitlementDataList",
"documentation":" License entitlements. "
},
"ClientToken":{
"shape":"ClientToken",
"documentation":" Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. "
},
"Beneficiary":{
"shape":"String",
"documentation":" License beneficiary. "
},
"NodeId":{
"shape":"String",
"documentation":" Node ID. "
}
}
},
"CheckoutLicenseResponse":{
"type":"structure",

"members":{
"CheckoutType":{
"shape":"CheckoutType",
"documentation":" Checkout type. "
},
"LicenseConsumptionToken":{
"shape":"String",
"documentation":" License consumption token. "
},
"EntitlementsAllowed":{
"shape":"EntitlementDataList",
"documentation":" Allowed license entitlements. "
},
"SignedToken":{
"shape":"SignedToken",
"documentation":" Signed token. "
},
"NodeId":{
"shape":"String",
"documentation":" Node ID. "
},
"IssuedAt":{
"shape":"ISO8601DateTime",
"documentation":" Date and time at which the license checkout is issued. "
},
"Expiration":{
"shape":"ISO8601DateTime",

"documentation":" Date and time at which the license checkout expires. "
},
"LicenseArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the checkout license. "
}
}
},
"CheckoutType":{
"type":"string",
"enum":[
"PROVISIONAL",
"PERPETUAL"
]
},
"ClientRequestToken":{
"type":"string",
"max":36,
"min":1
},

"ClientToken":{
"type":"string",
"max":2048,
"pattern":"\\S+"
},
"ConflictException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"documentation":" There was a conflict processing the request. Try your request again. ",
"exception":true
},
"ConsumedLicenseSummary":{
"type":"structure",
"members":{
"ResourceType":{
"shape":"ResourceType",
"documentation":" Resource type of the resource consuming a
license. "
},
"ConsumedLicenses":{
"shape":"BoxLong",
"documentation":" Number of licenses consumed by the resource. "
}
},
"documentation":" Details about license consumption. "
},
"ConsumedLicenseSummaryList":{
"type":"list",
"member":{"shape":"ConsumedLicenseSummary"}
},
"ConsumptionConfiguration":{
"type":"structure",
"members":{
"RenewType":{
"shape":"RenewType",
"documentation":" Renewal frequency. "
},
"ProvisionalConfiguration":{
"shape":"ProvisionalConfiguration",
"documentation":" Details about a provisional configuration. "
},
"BorrowConfiguration":{
"shape":"BorrowConfiguration",
"documentation":" Details about a borrow configuration. "
}
},

"documentation":" Details about a consumption configuration. "
},
"CreateGrantRequest":{
"type":"structure",
"required":[
"ClientToken",
"GrantName",
"LicenseArn",
"Principals",
"HomeRegion",
"AllowedOperations"
],
"members":{
"ClientToken":{
"shape":"ClientToken",
"documentation":" Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. "
},
"GrantName":{
"shape":"String",
"documentation":" Grant name. "
},
"LicenseArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the license. "
},
"Principals":{
"shape":"PrincipalArnList",
"documentation":" The grant principals. You can specify one of the following as an Amazon Resource Name (ARN): <ul> An Amazon Web Services account, which includes only the account specified.   An organizational unit (OU), which includes all accounts in the OU.   An organization, which will include all accounts across your organization. "
},
"HomeRegion":{
"shape":"String",
"documentation":" Home Region of the grant. "
},
"AllowedOperations":{
"shape":"AllowedOperationList",
"documentation":" Allowed operations for the grant. "
}
}
},
"CreateGrantResponse":{
"type":"structure",
"members":{
"GrantArn":{

"shape":"Arn",
"documentation":" Grant ARN. "
},
"Status":{
"shape":"GrantStatus",
"documentation":" Grant status. "
},
"Version":{
"shape":"String",
"documentation":" Grant version. "
}
}
},
"CreateGrantVersionRequest":{
"type":"structure",
"required":[
"ClientToken",
"GrantArn"
],

"members":{
"ClientToken":{
"shape":"ClientToken",
"documentation":" Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. "
},
"GrantArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the grant. "
},
"GrantName":{
"shape":"String",
"documentation":" Grant name. "
},
"AllowedOperations":{
"shape":"AllowedOperationList",
"documentation":" Allowed operations for the grant. "
},
"Status":{
"shape":"GrantStatus",
"documentation":" Grant status. "
},
"StatusReason":{
"shape":"StatusReasonMessage",
"documentation":" Grant status reason. "
},
"SourceVersion":{
"shape":"String",

"documentation":" Current version of the grant. "
},
"Options":{

"shape":"Options",
"documentation":" The options specified for the grant. "
}
}
},
"CreateGrantVersionResponse":{
"type":"structure",
"members":{
"GrantArn":{
"shape":"Arn",
"documentation":" Grant ARN. "
},
"Status":{
"shape":"GrantStatus",
"documentation":" Grant status. "
},
"Version":{
"shape":"String",
"documentation":" New version of the grant. "
}
}
},
"CreateLicenseConfigurationRequest":{
"type":"structure",
"required":[
"Name",
"LicenseCountingType"
],
"members":{
"Name":{
"shape":"String",
"documentation":" Name of the license configuration. "
},
"Description":{
"shape":"String",
"documentation":" Description of the license configuration. "
},
"LicenseCountingType":{
"shape":"LicenseCountingType",
"documentation":" Dimension used to track the license inventory. "
},
"LicenseCount":{
"shape":"BoxLong",
"documentation":" Number of licenses managed by the license configuration. "

},
"LicenseCountHardLimit":{
"shape":"BoxBoolean",
"documentation":" Indicates whether hard or soft license enforcement is used. Exceeding a hard limit blocks the launch of new instances. "
},
"LicenseRules":{
"shape":"StringList",
"documentation":" License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules vary by dimension, as follows.   <code>Cores</code> dimension: <code>allowedTenancy</code> | <code>licenseAffinityToHost</code> | <code>maximumCores</code> | <code>minimumCores</code>   <code>Instances</code> dimension: <code>allowedTenancy</code>
| <code>maximumCores</code> | <code>minimumCores</code> | <code>maximumSockets</code> | <code>minimumSockets</code> | <code>maximumVcpus</code> | <code>minimumVcpus</code>   <code>Sockets</code> dimension: <code>allowedTenancy</code> | <code>licenseAffinityToHost</code> | <code>maximumSockets</code> | <code>minimumSockets</code>   <code>vCPUs</code> dimension: <code>allowedTenancy</code> | <code>honorVcpuOptimization</code> | <code>maximumVcpus</code> | <code>minimumVcpus</code>   The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are <code>True</code> and <code>False</code>. "
},
"Tags":{
"shape":"TagList",
"documentation":" Tags to add to the
license configuration. "
},
"DisassociateWhenNotFound":{
"shape":"BoxBoolean",
"documentation":" When true, disassociates a resource when software is uninstalled. "
},
"ProductInformationList":{
"shape":"ProductInformationList",
"documentation":" Product information. "
}
}
},
"CreateLicenseConfigurationResponse":{
"type":"structure",
"members":{
"LicenseConfigurationArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the license configuration. "
}
}
},

"CreateLicenseConversionTaskForResourceRequest":{
"type":"structure",
"required":[
"ResourceArn",
"SourceLicenseContext",
"DestinationLicenseContext"
],
"members":{
"ResourceArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the resource you are converting the license type for. "
},
"SourceLicenseContext":{
"shape":"LicenseConversionContext",
"documentation":" Information that identifies the license type you are converting from. For the structure of the source license, see Convert a license type using the CLI in the License Manager User Guide. "
},
"DestinationLicenseContext":{
"shape":"LicenseConversionContext",
"documentation":" Information that identifies the license type you are converting to. For the structure of the destination license, see Convert a license type using the CLI in the License Manager User Guide. "
}
}
},
"CreateLicenseConversionTaskForResourceResponse":{
"type":"structure",
"members":{
"LicenseConversionTaskId":{
"shape":"LicenseConversionTaskId",
"documentation":" The ID of the created license type conversion task. "
}
}
},
"CreateLicenseManagerReportGeneratorRequest":{
"type":"structure",
"required":[
"ReportGeneratorName",
"Type",
"ReportContext",
"ReportFrequency",
"ClientToken"
],
"members":{

"ReportGeneratorName":{
"shape":"ReportGeneratorName",
"documentation":" Name of the report generator. "
},
"Type":{
"shape":"ReportTypeList",
"documentation":" Type of reports to generate. The following report types an be generated: <ul> License configuration report - Reports the number and details of consumed licenses for a license configuration.   Resource report - Reports the tracked licenses and resource consumption for a license configuration. "
},
"ReportContext":{
"shape":"ReportContext",
"documentation":" Defines the type of license configuration the report generator tracks. "
},
"ReportFrequency":{
"shape":"ReportFrequency",
"documentation":" Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. "
},
"ClientToken":{
"shape":"ClientRequestToken",
"documentation":" Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. "
},
"Description":{
"shape":"String",
"documentation":" Description of the report generator. "
},
"Tags":{
"shape":"TagList",
"documentation":" Tags to add to the report generator. "
}
}
},
"CreateLicenseManagerReportGeneratorResponse":{
"type":"structure",
"members":{
"LicenseManagerReportGeneratorArn":{
"shape":"String",
"documentation":" The Amazon Resource Name (ARN) of the new report generator. "
}
}
},
"CreateLicenseRequest":{
"type":"structure",
"required":[
"LicenseName",

"ProductName",
"ProductSKU",
"Issuer",
"HomeRegion",
"Validity",
"Entitlements",
"Beneficiary",
"ConsumptionConfiguration",
"ClientToken"
],
"members":{
"LicenseName":{
"shape":"String",
"documentation":" License name. "
},
"ProductName":{
"shape":"String",
"documentation":" Product name. "
},
"ProductSKU":{
"shape":"String",
"documentation":" Product SKU. "
},
"Issuer":{
"shape":"Issuer",
"documentation":" License issuer. "
},

"HomeRegion":{
"shape":"String",
"documentation":" Home Region for the license. "
},
"Validity":{
"shape":"DatetimeRange",
"documentation":" Date and time range during which the license is valid, in ISO8601-UTC format. "
},
"Entitlements":{
"shape":"EntitlementList",
"documentation":" License entitlements. "
},
"Beneficiary":{
"shape":"String",
"documentation":" License beneficiary. "
},
"ConsumptionConfiguration":{
"shape":"ConsumptionConfiguration",
"documentation":" Configuration for consumption of the license. Choose a provisional configuration for workloads running with continuous connectivity. Choose a borrow configuration for workloads with offline

usage. "
},
"LicenseMetadata":{
"shape":"MetadataList",
"documentation":" Information about the license. "
},
"ClientToken":{
"shape":"ClientToken",
"documentation":" Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. "
}
}
},
"CreateLicenseResponse":{
"type":"structure",
"members":{
"LicenseArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the license. "
},
"Status":{
"shape":"LicenseStatus",
"documentation":" License status. "
},
"Version":{
"shape":"String",
"documentation":" License version. "
}
}
},
"CreateLicenseVersionRequest":{
"type":"structure",
"required":[
"LicenseArn",
"LicenseName",
"ProductName",
"Issuer",
"HomeRegion",
"Validity",
"Entitlements",
"ConsumptionConfiguration",
"Status",
"ClientToken"
],

"members":{
"LicenseArn":{
"shape":"Arn",

"documentation":" Amazon Resource Name (ARN) of the license. "
},
"LicenseName":{
"shape":"String",
"documentation":" License name. "
},
"ProductName":{
"shape":"String",
"documentation":" Product name. "
},
"Issuer":{
"shape":"Issuer",
"documentation":" License issuer. "
},
"HomeRegion":{
"shape":"String",
"documentation":" Home Region of the license. "
},
"Validity":{
"shape":"DatetimeRange",
"documentation":" Date and time range during which the license is valid, in ISO8601-UTC format. "
},
"LicenseMetadata":{
"shape":"MetadataList",
"documentation":" Information about the license. "
},
"Entitlements":{
"shape":"EntitlementList",
"documentation":" License
entitlements. "
},
"ConsumptionConfiguration":{
"shape":"ConsumptionConfiguration",
"documentation":" Configuration for consumption of the license. Choose a provisional configuration for workloads running with continuous connectivity. Choose a borrow configuration for workloads with offline usage. "
},
"Status":{
"shape":"LicenseStatus",
"documentation":" License status. "
},
"ClientToken":{
"shape":"ClientToken",
"documentation":" Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. "
},
"SourceVersion":{
"shape":"String",

"documentation":" Current version of the license. "
}
}
},
"CreateLicenseVersionResponse":{
"type":"structure",
"members":{
"LicenseArn":{
"shape":"Arn",
"documentation":" License
ARN. "
},
"Version":{
"shape":"String",
"documentation":" New version of the license. "
},
"Status":{
"shape":"LicenseStatus",
"documentation":" License status. "
}
}
},
"CreateTokenRequest":{
"type":"structure",
"required":[
"LicenseArn",
"ClientToken"
],
"members":{
"LicenseArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the JWT token. "
},
"RoleArns":{
"shape":"ArnList",
"documentation":" Amazon Resource Name (ARN) of the IAM roles to embed in the token. License Manager does not check whether the roles are in use. "
},
"ExpirationInDays":{
"shape":"Integer",
"documentation":" Token expiration, in days, counted from token creation. The default is 365
days. "
},
"TokenProperties":{
"shape":"MaxSize3StringList",
"documentation":" Data specified by the caller to be included in the JWT token. The data is mapped to the amr claim of the JWT token. "

```
    },
    "ClientToken":{
      "shape":"ClientToken",
      "documentation":"<p>Idempotency token, valid for 10 minutes.</p>"
    }
  }
},
"CreateTokenResponse":{
  "type":"structure",
  "members":{
    "TokenId":{
      "shape":"String",
      "documentation":"<p>Token ID.</p>"
    },
    "TokenType":{
      "shape":"TokenType",
      "documentation":"<p>Token type.</p>"
    },
    "Token":{
      "shape":"TokenString",
      "documentation":"<p>Refresh token, encoded as a JWT token.</p>"
    }
  }
},
"DateTime":{"type":"timestamp"},
"DatetimeRange":{
  "type":"structure",
  "required":["Begin"],
  "members":{
    "Begin":{

    "shape":"ISO8601DateTime",
      "documentation":"<p>Start of the time range.</p>"
    },
    "End":{
      "shape":"ISO8601DateTime",
      "documentation":"<p>End of the time range.</p>"
    }
  },
  "documentation":"<p>Describes a time range, in ISO8601-UTC format.</p>"
},
"DeleteGrantRequest":{
  "type":"structure",
  "required":[
    "GrantArn",
    "Version"
  ],
  "members":{
```

```
    "GrantArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the grant.</p>"
    },
    "StatusReason":{
      "shape":"StatusReasonMessage",
      "documentation":"<p>The Status reason for the delete request.</p>"
    },
    "Version":{
      "shape":"String",
      "documentation":"<p>Current version of the grant.</p>"
    }
  }
},
"DeleteGrantResponse":{
  "type":"structure",
  "members":{
    "GrantArn":{
      "shape":"Arn",
       "documentation":"<p>Grant ARN.</p>"
    },
    "Status":{
      "shape":"GrantStatus",
      "documentation":"<p>Grant status.</p>"
    },
    "Version":{
      "shape":"String",
      "documentation":"<p>Grant version.</p>"
    }
  }
},
"DeleteLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{
      "shape":"String",
      "documentation":"<p>ID of the license configuration.</p>"
    }
  }
},
"DeleteLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
  }
},
"DeleteLicenseManagerReportGeneratorRequest":{
  "type":"structure",
```

"required":["LicenseManagerReportGeneratorArn"],
"members":{
"LicenseManagerReportGeneratorArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the report generator to be deleted. "
}
}
},
"DeleteLicenseManagerReportGeneratorResponse":{
"type":"structure",
"members":{
}
},
"DeleteLicenseRequest":{
"type":"structure",
"required":[
"LicenseArn",
"SourceVersion"
],
"members":{
"LicenseArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the license. "
},
"SourceVersion":{
"shape":"String",
"documentation":" Current version of the license. "
}
}
},
"DeleteLicenseResponse":{
"type":"structure",
"members":{
"Status":{
"shape":"LicenseDeletionStatus",
"documentation":" License status. "
},
"DeletionDate":{
"shape":"ISO8601DateTime",
"documentation":" Date when the license is deleted. "
}
}
},
"DeleteTokenRequest":{
"type":"structure",
"required":["TokenId"],
"members":{
"TokenId":{

"shape":"String",
"documentation":" Token ID. "
}
}
},
"DeleteTokenResponse":{
"type":"structure",
"members":{
}
},
"DigitalSignatureMethod":{
"type":"string",
"enum":["JWT_PS384"]
},
"Entitlement":{
"type":"structure",
"required":[
"Name",
"Unit"
],
"members":{
"Name":{
"shape":"String",
"documentation":" Entitlement name. "
},
"Value":{
"shape":"String",
"documentation":" Entitlement resource. Use only if the unit is None. "
},
"MaxCount":{
"shape":"Long",
"documentation":" Maximum entitlement count. Use if the unit is not None. "
},
"Overage":{
"shape":"BoxBoolean",
"documentation":" Indicates whether overages are allowed. "
},
"Unit":{
"shape":"EntitlementUnit",
"documentation":" Entitlement unit. "
},
"AllowCheckIn":{
"shape":"BoxBoolean",
"documentation":" Indicates whether check-ins are allowed. "
}
},
"documentation":" Describes a resource entitled for use with a license. "
},

"EntitlementData":{
  "type":"structure",
  "required":[
    "Name",
    "Unit"
  ],
  "members":{
    "Name":{
      "shape":"String",
      "documentation":" Entitlement data name. "
    },
    "Value":{
      "shape":"String",
      "documentation":" Entitlement data value. "
    },
    "Unit":{
      "shape":"EntitlementDataUnit",
      "documentation":" Entitlement data unit. "
    }
  },
  "documentation":" Data associated with an entitlement resource. "
},
"EntitlementDataList":{
  "type":"list",
  "member":{"shape":"EntitlementData"}
 },
"EntitlementDataUnit":{
  "type":"string",
  "enum":[
    "Count",
    "None",
    "Seconds",
    "Microseconds",
    "Milliseconds",
    "Bytes",
    "Kilobytes",
    "Megabytes",
    "Gigabytes",
    "Terabytes",
    "Bits",
    "Kilobits",
    "Megabits",
    "Gigabits",
    "Terabits",
    "Percent",
    "Bytes/Second",
    "Kilobytes/Second",
    "Megabytes/Second",

"Gigabytes/Second",
"Terabytes/Second",
"Bits/Second",
"Kilobits/Second",
"Megabits/Second",
"Gigabits/Second",
"Terabits/Second",
"Count/Second"
]
},
"EntitlementList":{
"type":"list",
"member":{"shape":"Entitlement"}
},
"EntitlementNotAllowedException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"documentation":" The entitlement is not allowed. ",
"exception":true
},
"EntitlementUnit":{
"type":"string",
"enum":[
"Count",
"None",
"Seconds",
"Microseconds",
"Milliseconds",
"Bytes",
"Kilobytes",
"Megabytes",
"Gigabytes",
"Terabytes",
"Bits",
"Kilobits",
"Megabits",
"Gigabits",
"Terabits",
"Percent",
"Bytes/Second",
"Kilobytes/Second",
"Megabytes/Second",
"Gigabytes/Second",
"Terabytes/Second",
"Bits/Second",
"Kilobits/Second",

"Megabits/Second",
"Gigabits/Second",
"Terabits/Second",
"Count/Second"
]
},
"EntitlementUsage":{
"type":"structure",
"required":[
"Name",
"ConsumedValue",
"Unit"
],
"members":{
"Name":{
"shape":"String",
"documentation":" Entitlement usage name. "
},
"ConsumedValue":{
"shape":"String",
"documentation":" Resource usage consumed. "
},
"MaxCount":{
"shape":"String",
"documentation":" Maximum entitlement usage count. "
},
"Unit":{
"shape":"EntitlementDataUnit",
"documentation":" Entitlement usage unit. "
}
},
"documentation":" Usage associated with an entitlement resource. "
},
"EntitlementUsageList":{
"type":"list",
"member":{"shape":"EntitlementUsage"}
},
"ExtendLicenseConsumptionRequest":{
"type":"structure",
"required":["LicenseConsumptionToken"],
"members":{
"LicenseConsumptionToken":{
"shape":"String",
"documentation":" License consumption token. "
},
"DryRun":{
"shape":"Boolean",
"documentation":" Checks whether you have the required permissions for the action, without actually

making the request. Provides
an error response if you do not have the required permissions. "
}
}
},
"ExtendLicenseConsumptionResponse":{
"type":"structure",
"members":{
"LicenseConsumptionToken":{
"shape":"String",
"documentation":" License consumption token. "
},
"Expiration":{
"shape":"ISO8601DateTime",
"documentation":" Date and time at which the license consumption expires. "
}
}
},
"FailedDependencyException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"},
"ErrorCode":{"shape":"String"}
},
"documentation":" A dependency required to run the API is missing. ",
"exception":true
},
"Filter":{
"type":"structure",
"members":{
"Name":{
"shape":"FilterName",
"documentation":" Name of the filter. Filter names are case-sensitive. "
},
"Values":{

"shape":"FilterValues",
"documentation":" The value of the filter, which is case-sensitive. You can only specify one value for the filter. "
}
},
"documentation":" A filter name and value pair that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs. "
},
"FilterLimitExceededException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}

```
    },
    "documentation":"<p>The request uses too many filters or too many filter values.</p>",
    "exception":true
  },
  "FilterList":{
    "type":"list",
    "member":{"shape":"Filter"}
  },
  "FilterName":{"type":"string"},
  "FilterValue":{"type":"string"},
  "FilterValues":{
    "type":"list",
    "member":{"shape":"FilterValue"}
  },
  "Filters":{
    "type":"list",
    "member":{"shape":"Filter"}
  },

"GetAccessTokenRequest":{
    "type":"structure",
    "required":["Token"],
    "members":{
      "Token":{
        "shape":"TokenString",
        "documentation":"<p>Refresh token, encoded as a JWT token.</p>"
      },
      "TokenProperties":{
        "shape":"MaxSize3StringList",
        "documentation":"<p>Token properties to validate against those present in the JWT token.</p>"
      }
    }
  },
  "GetAccessTokenResponse":{
    "type":"structure",
    "members":{
      "AccessToken":{
        "shape":"TokenString",
        "documentation":"<p>Temporary access token.</p>"
      }
    }
  },
  "GetGrantRequest":{
    "type":"structure",
    "required":["GrantArn"],
    "members":{
      "GrantArn":{
        "shape":"Arn",
```

"documentation":" Amazon Resource Name (ARN) of the grant. "
},
"Version":{
"shape":"String",
"documentation":" Grant version. "
}
}
},
"GetGrantResponse":{
"type":"structure",
"members":{
"Grant":{
"shape":"Grant",
"documentation":" Grant details. "
}
}
},
"GetLicenseConfigurationRequest":{
"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{
"LicenseConfigurationArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the license configuration. "
}
}
},
"GetLicenseConfigurationResponse":{
"type":"structure",
"members":{
"LicenseConfigurationId":{
"shape":"String",
"documentation":" Unique ID for the license configuration. "
},
"LicenseConfigurationArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the license configuration. "
},
"Name":{
"shape":"String",
"documentation":" Name of the license configuration. "
},
"Description":{
"shape":"String",
"documentation":" Description of the license configuration. "
},
"LicenseCountingType":{
"shape":"LicenseCountingType",

"documentation":" Dimension for which the licenses are counted. "
},
"LicenseRules":{
"shape":"StringList",
"documentation":" License rules. "
},
"LicenseCount":{
"shape":"BoxLong",
"documentation":" Number of available licenses. "
},
"LicenseCountHardLimit":{
"shape":"BoxBoolean",
"documentation":" Sets the number of available licenses as a hard limit. "
},
"ConsumedLicenses":{
"shape":"BoxLong",
"documentation":" Number of licenses assigned to resources. "
},
"Status":{
"shape":"String",
"documentation":" License configuration status. "
},
"OwnerAccountId":{
"shape":"String",
"documentation":" Account ID of the owner of the license configuration. "
},
"ConsumedLicenseSummaryList":{
"shape":"ConsumedLicenseSummaryList",
"documentation":" Summaries of the licenses consumed by resources. "
},
"ManagedResourceSummaryList":{
"shape":"ManagedResourceSummaryList",
"documentation":" Summaries of the managed resources. "
},
"Tags":{
"shape":"TagList",
"documentation":" Tags for the license configuration. "
},
"ProductInformationList":{
"shape":"ProductInformationList",
"documentation":" Product information. "
},
"AutomatedDiscoveryInformation":{
"shape":"AutomatedDiscoveryInformation",
"documentation":" Automated discovery information. "
},
"DisassociateWhenNotFound":{

"shape":"BoxBoolean",
"documentation":" When true, disassociates a resource when software is uninstalled. "
}
}
},
"GetLicenseConversionTaskRequest":{
"type":"structure",
"required":["LicenseConversionTaskId"],
"members":{
"LicenseConversionTaskId":{
"shape":"LicenseConversionTaskId",
"documentation":" ID of the license type conversion task to retrieve information on. "
}
}
},
"GetLicenseConversionTaskResponse":{
"type":"structure",
"members":{
"LicenseConversionTaskId":{
"shape":"LicenseConversionTaskId",
"documentation":" ID of the license type conversion task. "
},
"ResourceArn":{
"shape":"String",
"documentation":" Amazon Resource Names (ARN) of the resources the license conversion task is associated with. "
},
"SourceLicenseContext":{
"shape":"LicenseConversionContext",
"documentation":" Information about the license type converted from. "
},
"DestinationLicenseContext":{
"shape":"LicenseConversionContext",
"documentation":" Information about the license type converted to. "
},
"StatusMessage":{
"shape":"String",
"documentation":" The status message for the conversion task. "
},
"Status":{
"shape":"LicenseConversionTaskStatus",
"documentation":" Status of the license type conversion task. "
},
"StartTime":{
"shape":"DateTime",
"documentation":" Time at which the license type conversion task was started . "
},
"LicenseConversionTime":{

"shape":"DateTime",
"documentation":" Amount of time to complete the license type conversion. "
},
"EndTime":{
"shape":"DateTime",
"documentation":" Time
at which the license type conversion task was completed. "
}
}
},
"GetLicenseManagerReportGeneratorRequest":{
"type":"structure",
"required":["LicenseManagerReportGeneratorArn"],
"members":{
"LicenseManagerReportGeneratorArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the report generator. "
}
}
},
"GetLicenseManagerReportGeneratorResponse":{
"type":"structure",
"members":{
"ReportGenerator":{
"shape":"ReportGenerator",
"documentation":" A report generator that creates periodic reports about your license configurations. "
}
}
},
"GetLicenseRequest":{
"type":"structure",
"required":["LicenseArn"],
"members":{
"LicenseArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the license. "
},
"Version":{

"shape":"String",
"documentation":" License version. "
}
}
},
"GetLicenseResponse":{
"type":"structure",
"members":{
"License":{

"shape":"License",
"documentation":" License details. "
}
}
},
"GetLicenseUsageRequest":{
"type":"structure",
"required":["LicenseArn"],
"members":{
"LicenseArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the license. "
}
}
},
"GetLicenseUsageResponse":{
"type":"structure",
"members":{
"LicenseUsage":{
"shape":"LicenseUsage",
"documentation":" License usage details. "
}
}
},
"GetServiceSettingsRequest":{
"type":"structure",
"members":{
}
},
"GetServiceSettingsResponse":{
"type":"structure",
"members":{
"S3BucketArn":{
"shape":"String",

"documentation":" Regional S3 bucket path for storing reports, license trail event data, discovery data, and so on. "
},
"SnsTopicArn":{
"shape":"String",
"documentation":" SNS topic configured to receive notifications from License Manager. "
},
"OrganizationConfiguration":{
"shape":"OrganizationConfiguration",
"documentation":" Indicates whether Organizations is integrated with License Manager for cross-account discovery. "
},
"EnableCrossAccountsDiscovery":{

"shape":"BoxBoolean",
"documentation":" Indicates whether cross-account discovery is enabled. "
},
"LicenseManagerResourceShareArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the resource share. The License Manager management account provides member accounts with access to this share. "
}
}
},
"Grant":{
"type":"structure",
"required":[
"GrantArn",
"GrantName",
"ParentArn",
"LicenseArn",
"GranteePrincipalArn",
"HomeRegion",
"GrantStatus",
"Version",
"GrantedOperations"
],
"members":{
"GrantArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the grant. "
},
"GrantName":{
"shape":"String",
"documentation":" Grant name. "
},
"ParentArn":{
"shape":"Arn",
"documentation":" Parent ARN. "
},
"LicenseArn":{
"shape":"Arn",
"documentation":" License ARN. "
},
"GranteePrincipalArn":{
"shape":"Arn",
"documentation":" The grantee principal ARN. "
},
"HomeRegion":{
"shape":"String",
"documentation":" Home Region of the grant. "
},

"GrantStatus":{
"shape":"GrantStatus",
"documentation":" Grant status. "
},
"StatusReason":{
"shape":"StatusReasonMessage",
"documentation":" Grant status reason. "
},
"Version":{
"shape":"String",
"documentation":" Grant version. "
},
"GrantedOperations":{
"shape":"AllowedOperationList",
"documentation":" Granted operations. "
},
"Options":{
"shape":"Options",
"documentation":" The options specified for the grant. "
}
},
"documentation":" Describes a grant. "
},
"GrantList":{
"type":"list",
"member":{"shape":"Grant"}
},
"GrantStatus":{
"type":"string",
"enum":[
"PENDING_WORKFLOW",
"PENDING_ACCEPT",
"REJECTED",
"ACTIVE",
"FAILED_WORKFLOW",
"DELETED",
"PENDING_DELETE",
"DISABLED",

"WORKFLOW_COMPLETED"
]
},
"GrantedLicense":{
"type":"structure",
"members":{
"LicenseArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the license. "

},
"LicenseName":{
"shape":"String",
"documentation":" License name. "
},
"ProductName":{
"shape":"String",
"documentation":" Product name. "
},
"ProductSKU":{
"shape":"String",
"documentation":" Product SKU. "
},
"Issuer":{
"shape":"IssuerDetails",
"documentation":" Granted license issuer. "
},
"HomeRegion":{
"shape":"String",
"documentation":" Home Region of the granted license. "
},
"Status":{
"shape":"LicenseStatus",
"documentation":" Granted license status. "
},
"Validity":{
"shape":"DatetimeRange",
"documentation":" Date and time range during which the granted license is valid, in ISO8601-UTC format. "
},
"Beneficiary":{
"shape":"String",
"documentation":" Granted license beneficiary. "
},
"Entitlements":{
"shape":"EntitlementList",
"documentation":" License entitlements. "
},
"ConsumptionConfiguration":{
"shape":"ConsumptionConfiguration",
"documentation":" Configuration for consumption of the license. "
},
"LicenseMetadata":{
"shape":"MetadataList",
"documentation":" Granted license metadata. "
},
"CreateTime":{
"shape":"ISO8601DateTime",

"documentation":" Creation time of the granted license. "
},
"Version":{
"shape":"String",
"documentation":" Version of the granted license. "
},
"ReceivedMetadata":{
"shape":"ReceivedMetadata",
"documentation":" Granted license received metadata. "
}
},
"documentation":" Describes a license that is granted to a grantee. "
},
"GrantedLicenseList":{
"type":"list",
"member":{"shape":"GrantedLicense"}
},
"ISO8601DateTime":{
"type":"string",
"max":50,
"pattern":"^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
},
"Integer":{"type":"integer"},
"InvalidParameterValueException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"documentation":" One or more parameter values are not valid. ",
"exception":true,
"synthetic":true
},
"InvalidResourceStateException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}

},
"documentation":" License Manager cannot allocate a license to a resource because of its state. For example, you cannot allocate a license to an instance in the process of shutting down. ",
"exception":true
},
"InventoryFilter":{
"type":"structure",
"required":[
"Name",
"Condition"

```
    ],
    "members":{
      "Name":{
        "shape":"String",
        "documentation":"<p>Name of the filter.</p>"
      },
      "Condition":{
        "shape":"InventoryFilterCondition",
        "documentation":"<p>Condition of the filter.</p>"
      },
      "Value":{
        "shape":"String",
        "documentation":"<p>Value of the filter.</p>"
      }
    },
    "documentation":"<p>An inventory filter.</p>"
  },
  "InventoryFilterCondition":{
    "type":"string",
    "enum":[
      "EQUALS",
      "NOT_EQUALS",
      "BEGINS_WITH",
      "CONTAINS"
    ]
  },
  "InventoryFilterList":{
     "type":"list",
    "member":{"shape":"InventoryFilter"}
  },
  "Issuer":{
    "type":"structure",
    "required":["Name"],
    "members":{
      "Name":{
        "shape":"String",
        "documentation":"<p>Issuer name.</p>"
      },
      "SignKey":{
        "shape":"String",
        "documentation":"<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
      }
    },
    "documentation":"<p>Details about the issuer of a license.</p>"
  },
  "IssuerDetails":{
    "type":"structure",
```

"members":{
"Name":{
"shape":"String",
"documentation":" Issuer name. "
},
"SignKey":{
"shape":"String",
"documentation":" Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm. "
},
"KeyFingerprint":{
"shape":"String",
"documentation":" Issuer key fingerprint. "
}
},
"documentation":" Details associated with the issuer of a license. "
},
"License":{
"type":"structure",
"members":{
"LicenseArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the license. "
},
"LicenseName":{
"shape":"String",
"documentation":" License name. "
},
"ProductName":{
"shape":"String",
"documentation":" Product name. "
},
"ProductSKU":{
"shape":"String",
"documentation":" Product SKU. "
},
"Issuer":{
"shape":"IssuerDetails",
"documentation":" License issuer. "
},
"HomeRegion":{
"shape":"String",
"documentation":" Home Region of the license. "
},
"Status":{
"shape":"LicenseStatus",
"documentation":" License status. "
},

"Validity":{
"shape":"DatetimeRange",
"documentation":" Date and time range during which the license is valid, in ISO8601-UTC format. "
},
"Beneficiary":{
"shape":"String",
"documentation":" License beneficiary. "
},
"Entitlements":{
"shape":"EntitlementList",
"documentation":" License entitlements. "
},
"ConsumptionConfiguration":{
"shape":"ConsumptionConfiguration",
"documentation":" Configuration for consumption of the license. "
},
"LicenseMetadata":{
"shape":"MetadataList",
"documentation":" License metadata. "
},
"CreateTime":{
"shape":"ISO8601DateTime",
"documentation":" License creation time. "
},
"Version":{
"shape":"String",
"documentation":" License version. "
}
},
"documentation":" Software license that is managed in License Manager. "
},
"LicenseConfiguration":{
"type":"structure",
"members":{
"LicenseConfigurationId":{
"shape":"String",
"documentation":" Unique ID of the license configuration. "
},
"LicenseConfigurationArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the license configuration. "
},
"Name":{
"shape":"String",
"documentation":" Name of the license configuration. "
},
"Description":{
"shape":"String",

"documentation":" Description of the license configuration. "
},
"LicenseCountingType":{
"shape":"LicenseCountingType",
"documentation":" Dimension to use to track the license inventory. "
},
"LicenseRules":{
"shape":"StringList",
"documentation":" License rules. "
},
"LicenseCount":{
"shape":"BoxLong",
"documentation":" Number of licenses managed by the license configuration. "
},
"LicenseCountHardLimit":{
"shape":"BoxBoolean",
"documentation":" Number of available licenses as a hard limit. "
},
"DisassociateWhenNotFound":{
"shape":"BoxBoolean",
"documentation":" When true, disassociates a resource when software is uninstalled. "
},
"ConsumedLicenses":{
"shape":"BoxLong",
"documentation":" Number of licenses consumed. "
},
"Status":{
"shape":"String",
"documentation":" Status of the license configuration. "
},
"OwnerAccountId":{
"shape":"String",
"documentation":" Account ID of the license
configuration's owner. "
},
"ConsumedLicenseSummaryList":{
"shape":"ConsumedLicenseSummaryList",
"documentation":" Summaries for licenses consumed by various resources. "
},
"ManagedResourceSummaryList":{
"shape":"ManagedResourceSummaryList",
"documentation":" Summaries for managed resources. "
},
"ProductInformationList":{
"shape":"ProductInformationList",
"documentation":" Product information. "
},
"AutomatedDiscoveryInformation":{

"shape":"AutomatedDiscoveryInformation",
"documentation":" Automated discovery information. "
}
},
"documentation":" A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared
tenancy, Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM must be associated with a host), and the number of licenses purchased and used. "
},
"LicenseConfigurationAssociation":{
"type":"structure",
"members":{
"ResourceArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the resource. "
},
"ResourceType":{
"shape":"ResourceType",
"documentation":" Type of server resource. "
},
"ResourceOwnerId":{
"shape":"String",
"documentation":" ID of the Amazon Web Services account that owns the resource consuming licenses. "
},
"AssociationTime":{
"shape":"DateTime",
"documentation":" Time when the license configuration was associated with the resource. "
},
"AmiAssociationScope":{
"shape":"String",
"documentation":" Scope of
AMI associations. The possible value is <code>cross-account</code>. "
}
},
"documentation":" Describes an association with a license configuration. "
},
"LicenseConfigurationAssociations":{
"type":"list",
"member":{"shape":"LicenseConfigurationAssociation"}
},
"LicenseConfigurationStatus":{
"type":"string",
"enum":[
"AVAILABLE",
"DISABLED"
]

},
"LicenseConfigurationUsage":{
"type":"structure",
"members":{
"ResourceArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the resource. "
},
"ResourceType":{
"shape":"ResourceType",
"documentation":" Type of resource. "
},
"ResourceStatus":{
"shape":"String",
"documentation":" Status of the resource. "
},
"ResourceOwnerId":{
"shape":"String",
"documentation":" ID of
the account that owns the resource. "
},
"AssociationTime":{
"shape":"DateTime",
"documentation":" Time when the license configuration was initially associated with the resource. "
},
"ConsumedLicenses":{
"shape":"BoxLong",
"documentation":" Number of licenses consumed by the resource. "
}
},
"documentation":" Details about the usage of a resource associated with a license configuration. "
},
"LicenseConfigurationUsageList":{
"type":"list",
"member":{"shape":"LicenseConfigurationUsage"}
},
"LicenseConfigurations":{
"type":"list",
"member":{"shape":"LicenseConfiguration"}
},
"LicenseConversionContext":{
"type":"structure",
"members":{
"UsageOperation":{
"shape":"UsageOperation",
"documentation":" The Usage operation value that corresponds to the license type you are converting your
resource

from. For more information about which platforms correspond to which usage operation values see Sample data: usage operation by platform "
      }
    },
    "documentation":" Information about a license type conversion task. "
  },
  "LicenseConversionTask":{
    "type":"structure",
    "members":{
      "LicenseConversionTaskId":{
        "shape":"LicenseConversionTaskId",
        "documentation":" The ID of the license type conversion task. "
      },
      "ResourceArn":{
        "shape":"String",
        "documentation":" The Amazon Resource Name (ARN) of the resource associated with the license type conversion task. "
      },
      "SourceLicenseContext":{
        "shape":"LicenseConversionContext",
        "documentation":" Information about the license type this conversion task converted from. "
      },

      "DestinationLicenseContext":{
        "shape":"LicenseConversionContext",
        "documentation":" Information about the license type this conversion task converted to. "
      },
      "Status":{
        "shape":"LicenseConversionTaskStatus",
        "documentation":" The status of the conversion task. "
      },
      "StatusMessage":{
        "shape":"String",
        "documentation":" The status message for the conversion task. "
      },
      "StartTime":{
        "shape":"DateTime",
        "documentation":" The time the conversion task was started at. "
      },
      "LicenseConversionTime":{
        "shape":"DateTime",
        "documentation":" The time the usage operation value of the resource was changed. "
      },
      "EndTime":{
        "shape":"DateTime",
        "documentation":" The time the conversion task was completed. "
      }

```
    },
    "documentation":"<p>Information about a
license type conversion task.</p>"
  },
  "LicenseConversionTaskId":{
    "type":"string",
    "max":50,
    "pattern":"^lct-[a-zA-Z0-9]*"
  },
  "LicenseConversionTaskStatus":{
    "type":"string",
    "enum":[
      "IN_PROGRESS",
      "SUCCEEDED",
      "FAILED"
    ]
  },
  "LicenseConversionTasks":{
    "type":"list",
    "member":{"shape":"LicenseConversionTask"}
  },
  "LicenseCountingType":{
    "type":"string",
    "enum":[
      "vCPU",
      "Instance",
      "Core",
      "Socket"
    ]
  },
  "LicenseDeletionStatus":{
    "type":"string",
    "enum":[
      "PENDING_DELETE",
      "DELETED"
    ]
  },
  "LicenseList":{
    "type":"list",
    "member":{"shape":"License"}
  },
  "LicenseOperationFailure":{
    "type":"structure",
    "members":{
      "ResourceArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Name (ARN) of the resource.</p>"
      },
```

"ResourceType":{
"shape":"ResourceType",
"documentation":" Resource type. "
},
"ErrorMessage":{
"shape":"String",
"documentation":" Error message. "
},
"FailureTime":{
"shape":"DateTime",
"documentation":" Failure time. "
},
"OperationName":{
"shape":"String",
"documentation":" Name of the operation. "
},
"ResourceOwnerId":{
"shape":"String",
"documentation":" ID of the Amazon Web Services account that owns the resource. "
},
"OperationRequestedBy":{
"shape":"String",
"documentation":" The requester is \"License Manager Automated Discovery\". "
},
"MetadataList":{
"shape":"MetadataList",
"documentation":" Reserved. "
}
},
"documentation":" Describes the failure of a license operation. "
},
"LicenseOperationFailureList":{
"type":"list",
"member":{"shape":"LicenseOperationFailure"}
},
"LicenseSpecification":{
"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{
"LicenseConfigurationArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the license configuration. "
},
"AmiAssociationScope":{
"shape":"String",
"documentation":" Scope of AMI associations. The possible value is <code>cross-account</code>. "
}

```
  },
  "documentation":"<p>Details for associating a license configuration with a resource.</p>"
},
"LicenseSpecifications":{
  "type":"list",
  "member":{"shape":"LicenseSpecification"}
},
"LicenseStatus":{
  "type":"string",
  "enum":[
    "AVAILABLE",
    "PENDING_AVAILABLE",
    "DEACTIVATED",
    "SUSPENDED",
    "EXPIRED",
    "PENDING_DELETE",
     "DELETED"
  ]
},
"LicenseUsage":{
  "type":"structure",
  "members":{
    "EntitlementUsages":{
      "shape":"EntitlementUsageList",
      "documentation":"<p>License entitlement usages.</p>"
    }
  },
  "documentation":"<p>Describes the entitlement usage associated with a license.</p>"
},
"LicenseUsageException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>You do not have enough licenses available to support a new resource launch.</p>",
  "exception":true
},
"ListAssociationsForLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of a license configuration.</p>"
    },
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"<p>Maximum
```

number of results to return in a single call. "
      },
      "NextToken":{
        "shape":"String",
        "documentation":" Token for the next set of results. "
      }
    }
  },
  "ListAssociationsForLicenseConfigurationResponse":{
    "type":"structure",
    "members":{
      "LicenseConfigurationAssociations":{
        "shape":"LicenseConfigurationAssociations",
        "documentation":" Information about the associations for the license configuration. "
      },
      "NextToken":{
        "shape":"String",
        "documentation":" Token for the next set of results. "
      }
    }
  },
  "ListDistributedGrantsRequest":{
    "type":"structure",
    "members":{
      "GrantArns":{
        "shape":"ArnList",
        "documentation":" Amazon Resource Names (ARNs) of the grants. "
      },
      "Filters":{
        "shape":"FilterList",
        "documentation":" Filters to scope the results.
The following filters are supported: <ul> <code>LicenseArn</code>   <code>GrantStatus</code>   <code>GranteePrincipalARN</code>   <code>ProductSKU</code>   <code>LicenseIssuerName</code> "
      },
      "NextToken":{
        "shape":"String",
        "documentation":" Token for the next set of results. "
      },
      "MaxResults":{
        "shape":"MaxSize100",
        "documentation":" Maximum number of results to return in a single call. "
      }
    }
  },
  "ListDistributedGrantsResponse":{
    "type":"structure",
    "members":{

"Grants":{
"shape":"GrantList",
"documentation":" Distributed grant details. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListFailuresForLicenseConfigurationOperationsRequest":{
"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{
"LicenseConfigurationArn":{
"shape":"String",
"documentation":" Amazon Resource Name of the license configuration. "
},
"MaxResults":{
"shape":"BoxInteger",
"documentation":" Maximum number of results to return in a single call. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListFailuresForLicenseConfigurationOperationsResponse":{
"type":"structure",
"members":{
"LicenseOperationFailureList":{
"shape":"LicenseOperationFailureList",
"documentation":" License configuration operations that failed. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}

},
"ListLicenseConfigurationsRequest":{
"type":"structure",
"members":{
"LicenseConfigurationArns":{
"shape":"StringList",
"documentation":" Amazon Resource Names (ARN) of the license configurations. "

},
"MaxResults":{
"shape":"BoxInteger",
"documentation":" Maximum number of results to return in a single call. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
},
"Filters":{
"shape":"Filters",
"documentation":" Filters to scope the results. The following filters and logical operators are supported: <ul> <code>licenseCountingType</code> - The dimension for which licenses are counted. Possible values are <code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement is used. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>usagelimitExceeded</code> - A Boolean value that indicates whether the available licenses have been exceeded. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. "
}
}
},
"ListLicenseConfigurationsResponse":{
"type":"structure",
"members":{
"LicenseConfigurations":{
"shape":"LicenseConfigurations",
"documentation":" Information about the license configurations. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListLicenseConversionTasksRequest":{
"type":"structure",
"members":{
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
},
"MaxResults":{
"shape":"BoxInteger",
"documentation":" Maximum number of results to return in a single call. "
},
"Filters":{

"shape":"Filters",
"documentation":" Filters to scope the results. Valid filters are <code>ResourceArns</code> and <code>Status</code>. "
}
}
},
"ListLicenseConversionTasksResponse":{
"type":"structure",
"members":{
"LicenseConversionTasks":{
"shape":"LicenseConversionTasks",
"documentation":" Information about the license configuration tasks for your account. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListLicenseManagerReportGeneratorsRequest":{
"type":"structure",
"members":{
"Filters":{
"shape":"FilterList",
"documentation":" Filters to scope the results. The following filters are supported: <ul> <code>LicenseConfigurationArn</code> "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
},
"MaxResults":{
"shape":"MaxSize100",
"documentation":" Maximum number of results to return in a single call. "
}
}
},
"ListLicenseManagerReportGeneratorsResponse":{
"type":"structure",
"members":{
"ReportGenerators":{
"shape":"ReportGeneratorList",
"documentation":" A report generator that creates periodic reports about your license configurations. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "

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      }
    }
  },
  "ListLicenseSpecificationsForResourceRequest":{
    "type":"structure",
    "required":["ResourceArn"],
     "members":{
      "ResourceArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Name (ARN) of a resource that has an associated license
configuration.</p>"
      },
      "MaxResults":{
        "shape":"BoxInteger",
        "documentation":"<p>Maximum number of results to return in a single call.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      }
    }
  },
  "ListLicenseSpecificationsForResourceResponse":{
    "type":"structure",
    "members":{
      "LicenseSpecifications":{
        "shape":"LicenseSpecifications",
        "documentation":"<p>License configurations associated with a resource.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      }
    }
  },
  "ListLicenseVersionsRequest":{
    "type":"structure",

    "required":["LicenseArn"],
    "members":{
      "LicenseArn":{
        "shape":"Arn",
        "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      },
```

"MaxResults":{
"shape":"MaxSize100",
"documentation":" Maximum number of results to return in a single call. "
}
}
},
"ListLicenseVersionsResponse":{
"type":"structure",
"members":{
"Licenses":{
"shape":"LicenseList",
"documentation":" License details. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListLicensesRequest":{
"type":"structure",
"members":{
"LicenseArns":{
"shape":"ArnList",
"documentation":" Amazon Resource Names
(ARNs) of the licenses. "
},
"Filters":{
"shape":"FilterList",
"documentation":" Filters to scope the results. The following filters are supported: <ul>
<code>Beneficiary</code>   <code>ProductSKU</code>
<code>Fingerprint</code>   <code>Status</code> "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
},
"MaxResults":{
"shape":"MaxSize100",
"documentation":" Maximum number of results to return in a single call. "
}
}
},
"ListLicensesResponse":{
"type":"structure",
"members":{
"Licenses":{
"shape":"LicenseList",

"documentation":" License details. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListReceivedGrantsForOrganizationRequest":{
"type":"structure",
"required":["LicenseArn"],
"members":{
"LicenseArn":{
"shape":"Arn",
"documentation":" The Amazon Resource Name (ARN) of the received license. "
},
"Filters":{
"shape":"FilterList",
"documentation":" Filters to scope the results. The following filters are supported: <ul> <code>ParentArn</code>   <code>GranteePrincipalArn</code> "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
},
"MaxResults":{
"shape":"MaxSize100",
"documentation":" Maximum number of results to return in a single call. "
}
}
},
"ListReceivedGrantsForOrganizationResponse":{
"type":"structure",
"members":{
"Grants":{

"shape":"GrantList",
"documentation":" Lists the grants the organization has received. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListReceivedGrantsRequest":{
"type":"structure",
"members":{

"GrantArns":{
"shape":"ArnList",
"documentation":" Amazon Resource Names (ARNs) of the grants. "
},
"Filters":{
"shape":"FilterList",
"documentation":" Filters to scope the results. The following filters are supported: <ul> <code>ProductSKU</code>   <code>LicenseIssuerName</code>   <code>LicenseArn</code>   <code>GrantStatus</code>   <code>GranterAccountId</code> "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
},
"MaxResults":{
"shape":"MaxSize100",
"documentation":" Maximum number of results to return in a single call. "
}
}
},
"ListReceivedGrantsResponse":{
"type":"structure",
"members":{
"Grants":{
"shape":"GrantList",
"documentation":" Received grant details. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListReceivedLicensesForOrganizationRequest":{
"type":"structure",
"members":{
"Filters":{
"shape":"FilterList",
"documentation":" Filters to scope the results. The following filters are supported: <ul> <code>Beneficiary</code>   <code>ProductSKU</code> "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
},
"MaxResults":{

"shape":"MaxSize100",
"documentation":" Maximum number of results to return in a single call. "
}
}
},
"ListReceivedLicensesForOrganizationResponse":{
"type":"structure",
"members":{
"Licenses":{
"shape":"GrantedLicenseList",
"documentation":" Lists the licenses the organization has received. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListReceivedLicensesRequest":{
"type":"structure",
"members":{
"LicenseArns":{
"shape":"ArnList",
"documentation":" Amazon Resource Names (ARNs) of the licenses. "
},
"Filters":{
"shape":"FilterList",
"documentation":" Filters to scope the results. The following filters are supported: <ul>
<code>ProductSKU</code>
   <code>Status</code>   <code>Fingerprint</code>
<code>IssuerName</code>   <code>Beneficiary</code> "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
},
"MaxResults":{
"shape":"MaxSize100",
"documentation":" Maximum number of results to return in a single call. "
}
}
},
"ListReceivedLicensesResponse":{
"type":"structure",
"members":{
"Licenses":{
"shape":"GrantedLicenseList",
"documentation":" Received license details. "

```
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      }
    }
  },
  "ListResourceInventoryRequest":{
    "type":"structure",
    "members":{
      "MaxResults":{
        "shape":"BoxInteger",
         "documentation":"<p>Maximum number of results to return in a single call.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      },
      "Filters":{
        "shape":"InventoryFilterList",
        "documentation":"<p>Filters to scope the results. The following filters and logical operators are
supported:</p> <ul> <li> <p> <code>account_id</code> - The ID of the Amazon Web Services account that owns
the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p>
<code>application_name</code> - The name of the application. Logical operators are <code>EQUALS</code> |
<code>BEGINS_WITH</code>.</p> </li> <li> <p> <code>license_included</code> - The type of license
included. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. Possible values are
<code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-web</code>
 | <code>windows-server-datacenter</code>.</p> </li> <li> <p> <code>platform</code> - The platform of the
resource. Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p> </li> <li> <p>
<code>resource_id</code> - The ID of the resource. Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>tag:&lt;key&gt;</code> - The key/value combination of
a tag assigned to the resource. Logical operators are <code>EQUALS</code> (single account) or
<code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account).</p> </li> </ul>"
      }
    }
  },
  "ListResourceInventoryResponse":{
    "type":"structure",
    "members":{
      "ResourceInventoryList":{
        "shape":"ResourceInventoryList",
        "documentation":"<p>Information about the resources.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      }
    }
```

```
  },
  "ListTagsForResourceRequest":{
    "type":"structure",
    "required":["ResourceArn"],
    "members":{
      "ResourceArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
      }
    }
  },
  "ListTagsForResourceResponse":{
    "type":"structure",
    "members":{
      "Tags":{
        "shape":"TagList",
        "documentation":"<p>Information about the tags.</p>"
      }
    }
  },
  "ListTokensRequest":{
    "type":"structure",
    "members":{
      "TokenIds":{
        "shape":"StringList",
        "documentation":"<p>Token IDs.</p>"
      },
      "Filters":{
        "shape":"FilterList",
        "documentation":"<p>Filters to scope the results. The following filter is supported:</p> <ul> <li> <p>
<code>LicenseArns</code> </p> </li> </ul>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of
 results.</p>"
      },
      "MaxResults":{
        "shape":"MaxSize100",
        "documentation":"<p>Maximum number of results to return in a single call.</p>"
      }
    }
  },
  "ListTokensResponse":{
    "type":"structure",
    "members":{
      "Tokens":{
        "shape":"TokenList",
```

"documentation":" Received token details. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListUsageForLicenseConfigurationRequest":{
"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{
"LicenseConfigurationArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the license configuration. "
},
"MaxResults":{
"shape":"BoxInteger",
"documentation":" Maximum number of results to return in a single call. "
},

"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
},
"Filters":{
"shape":"Filters",
"documentation":" Filters to scope the results. The following filters and logical operators are supported: <ul> <code>resourceArn</code> - The ARN of the license configuration resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>resourceAccount</code> - The ID of the account that owns the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. "
}
}
},
"ListUsageForLicenseConfigurationResponse":{
"type":"structure",
"members":{
"LicenseConfigurationUsageList":{
"shape":"LicenseConfigurationUsageList",
"documentation":" Information about the license configurations. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "

```
    }
  }
},
"Location":{"type":"string"},
"Long":{"type":"long"},
"ManagedResourceSummary":{
  "type":"structure",
  "members":{
    "ResourceType":{
      "shape":"ResourceType",
      "documentation":"<p>Type of resource associated with a license.</p>"
    },
    "AssociationCount":{
      "shape":"BoxLong",
      "documentation":"<p>Number of resources associated with licenses.</p>"
    }
  },
  "documentation":"<p>Summary information about a managed resource.</p>"
},
"ManagedResourceSummaryList":{
  "type":"list",
  "member":{"shape":"ManagedResourceSummary"}
},
"MaxSize100":{
   "type":"integer",
  "max":100,
  "min":1
},
"MaxSize3StringList":{
  "type":"list",
  "member":{"shape":"String"},
  "max":3
},
"Message":{"type":"string"},
"Metadata":{
  "type":"structure",
  "members":{
    "Name":{
      "shape":"String",
      "documentation":"<p>The key name.</p>"
    },
    "Value":{
      "shape":"String",
      "documentation":"<p>The value.</p>"
    }
  },
  "documentation":"<p>Describes key/value pairs.</p>"
},
```

"MetadataList":{
"type":"list",
"member":{"shape":"Metadata"}
},
"NoEntitlementsAllowedException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"documentation":" There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"exception":true
},
"Options":{
"type":"structure",
"members":{
"ActivationOverrideBehavior":{
"shape":"ActivationOverrideBehavior",
"documentation":" An activation option for your grant that determines the behavior of activating a grant. Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the <code>Status</code> parameter.   As a license administrator, you can optionally specify an <code>ActivationOverrideBehavior</code> when activating a grant.   As a grantor, you can optionally specify an <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee account in your organization.   As a grantee, if the grantor creating the distributed grant doesnt specify an <code>ActivationOverrideBehavior</code>, you can optionally specify one when you are activating the grant.   <dl> <dt>DISTRIBUTED_GRANTS_ONLY</dt> <dd> Use this value to activate a grant without replacing any member accounts active grants for the same product. </dd> <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt> <dd> Use this value to activate a grant and disable other active grants in any member accounts for the same product. This action will also replace their previously activated grants with this activated grant. </dd> </dl>"
}
},
"documentation":" The options you can specify when you create a new version of a grant, such as activation override behavior. For more information, see Granted licenses in License Manager in the License Manager User Guide. "
},
"OrganizationConfiguration":{
"type":"structure",
"required":["EnableIntegration"],
"members":{
"EnableIntegration":{
"shape":"Boolean",
"documentation":" Enables Organizations integration. "
}
},

"documentation":" Configuration information for Organizations. "
},
"PrincipalArnList":{
"type":"list",
"member":{"shape":"Arn"},
"max":1,
"min":1
},
"ProductInformation":{
"type":"structure",
"required":[
"ResourceType",
"ProductInformationFilterList"
],
"members":{
"ResourceType":{
"shape":"String",
"documentation":" Resource type. The possible values are <code>SSM_MANAGED</code> |
<code>RDS</code>. "
},
"ProductInformationFilterList":{
"shape":"ProductInformationFilterList",
"documentation":" A Product information filter consists of a
<code>ProductInformationFilterComparator</code> which is a logical operator, a
<code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a
<code>ProductInformationFilterValue</code> that specifies the value to filter on. Accepted values for
<code>ProductInformationFilterName</code>
are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>.
 The following filters and are supported when the resource type is <code>SSM_MANAGED</code>:
  <code>Application Name</code> - The name of the application. Logical operator is
<code>EQUALS</code>.   <code>Application Publisher</code> - The publisher of the
application. Logical operator is <code>EQUALS</code>.   <code>Application Version</code> -
The version of the application. Logical operator is <code>EQUALS</code>.   <code>Platform
Name</code> - The name of the platform. Logical operator is <code>EQUALS</code>.
<code>Platform Type</code> - The platform type. Logical operator is <code>EQUALS</code>.
 <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude
from automated discovery. Logical
operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code>
following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is
optional if you are not using values for the key.   <code>AccountId</code> - The 12-digit ID of
an Amazon Web Services account you wish to exclude from automated discovery. Logical operator is
<code>NOT_EQUALS</code>.   <code>License Included</code> - The type of license
included. Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>. Possible values are:
<code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-web</code> |
<code>windows-server-datacenter</code>.   The following filters and logical operators are
supported when the resource type is <code>RDS</code>: <ul> <code>Engine Edition</code> - The
edition of the database engine. Logical operator is <code>EQUALS</code>. Possible

values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>.   <code>License Pack</code> - The license pack. Logical operator is <code>EQUALS</code>. Possible values are: <code>data guard</code> | <code>diagnostic pack sqlt</code> | <code>tuning pack sqlt</code> | <code>ols</code> | <code>olap</code>. "
      }
    },
    "documentation":" Describes product information for a license configuration. "
  },
  "ProductInformationFilter":{
    "type":"structure",
    "required":[
      "ProductInformationFilterName",
      "ProductInformationFilterComparator"
    ],
    "members":{
      "ProductInformationFilterName":{
        "shape":"String",
        "documentation":" Filter name. "
      },
      "ProductInformationFilterValue":{
        "shape":"StringList",
        "documentation":" Filter value. "
      },
      "ProductInformationFilterComparator":{
         "shape":"String",
        "documentation":" Logical operator. "
      }
    },
    "documentation":" Describes product information filters. "
  },
  "ProductInformationFilterList":{
    "type":"list",
    "member":{"shape":"ProductInformationFilter"}
  },
  "ProductInformationList":{
    "type":"list",
    "member":{"shape":"ProductInformation"}
  },
  "ProvisionalConfiguration":{
    "type":"structure",
    "required":["MaxTimeToLiveInMinutes"],
    "members":{
      "MaxTimeToLiveInMinutes":{
        "shape":"BoxInteger",
        "documentation":" Maximum time for the provisional configuration, in minutes. "
      }
    },
    "documentation":" Details about a provisional configuration. "

},
"RateLimitExceededException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"documentation":" Too many requests have been submitted. Try again after
a brief wait. ",
"exception":true
},
"ReceivedMetadata":{
"type":"structure",
"members":{
"ReceivedStatus":{
"shape":"ReceivedStatus",
"documentation":" Received status. "
},
"ReceivedStatusReason":{
"shape":"StatusReasonMessage",
"documentation":" Received status reason. "
},
"AllowedOperations":{
"shape":"AllowedOperationList",
"documentation":" Allowed operations. "
}
},
"documentation":" Metadata associated with received licenses and grants. "
},
"ReceivedStatus":{
"type":"string",
"enum":[
"PENDING_WORKFLOW",
"PENDING_ACCEPT",
"REJECTED",
"ACTIVE",
"FAILED_WORKFLOW",
"DELETED",
"DISABLED",
"WORKFLOW_COMPLETED"
]
},
"RedirectException":{
"type":"structure",
"members":{
"Location":{"shape":"Location"},
"Message":{"shape":"Message"}
},
"documentation":" This is not the correct Region for the resource. Try again. ",

"exception":true
},
"RejectGrantRequest":{
"type":"structure",
"required":["GrantArn"],
"members":{
"GrantArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the grant. "
}
}
},
"RejectGrantResponse":{
"type":"structure",
"members":{
"GrantArn":{
"shape":"Arn",
"documentation":" Grant ARN. "
},
"Status":{
"shape":"GrantStatus",
"documentation":" Grant status. "
},
"Version":{
"shape":"String",
"documentation":" Grant version. "
}
}
},
"RenewType":{
"type":"string",
"enum":[
"None",
"Weekly",
"Monthly"
]
},
"ReportContext":{
"type":"structure",
"required":["licenseConfigurationArns"],
"members":{
"licenseConfigurationArns":{
"shape":"ArnList",
"documentation":" Amazon Resource Name (ARN) of the license configuration that this generator reports on. "
}
},
"documentation":" Details of the license configuration that this generator reports on. "

```
  },
  "ReportFrequency":{
    "type":"structure",
    "members":{
      "value":{
        "shape":"Integer",
        "documentation":"<p>Number of times within the frequency period that a report is generated. The only supported value is <code>1</code>.</p>"
      },
      "period":{
        "shape":"ReportFrequencyType",
        "documentation":"<p>Time period between each report. The period can be daily, weekly, or monthly.</p>"
      }
    },
    "documentation":"<p>Details about how frequently reports are generated.</p>"
  },
  "ReportFrequencyType":{
    "type":"string",
    "enum":[
      "DAY",
      "WEEK",
      "MONTH"
    ]
  },
  "ReportGenerator":{
    "type":"structure",
    "members":{
      "ReportGeneratorName":{
        "shape":"String",
        "documentation":"<p>Name of the report generator.</p>"
      },
      "ReportType":{
        "shape":"ReportTypeList",
        "documentation":"<p>Type of reports that are generated.</p>"
      },
      "ReportContext":{
        "shape":"ReportContext",
        "documentation":"<p>License configuration type for this generator.</p>"
      },
      "ReportFrequency":{
        "shape":"ReportFrequency",
        "documentation":"<p>Details about how frequently reports are generated.</p>"
      },
      "LicenseManagerReportGeneratorArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Name (ARN) of the report generator.</p>"
      },
      "LastRunStatus":{
```

"shape":"String",
"documentation":" Status of the
last report generation attempt. "
},
"LastRunFailureReason":{
"shape":"String",
"documentation":" Failure message for the last report generation attempt. "
},
"LastReportGenerationTime":{
"shape":"String",
"documentation":" Time the last report was generated at. "
},
"ReportCreatorAccount":{
"shape":"String",
"documentation":" The Amazon Web Services account ID used to create the report generator. "
},
"Description":{
"shape":"String",
"documentation":" Description of the report generator. "
},
"S3Location":{
"shape":"S3Location",
"documentation":" Details of the S3 bucket that report generator reports are published to. "
},
"CreateTime":{
"shape":"String",
"documentation":" Time the report was created. "
},
"Tags":{

"shape":"TagList",
"documentation":" Tags associated with the report generator. "
}
},
"documentation":" Describe the details of a report generator. "
},
"ReportGeneratorList":{
"type":"list",
"member":{"shape":"ReportGenerator"}
},
"ReportGeneratorName":{
"type":"string",
"max":100,
"min":1
},
"ReportType":{
"type":"string",
"enum":[

"LicenseConfigurationSummaryReport",
"LicenseConfigurationUsageReport"
]
},
"ReportTypeList":{
"type":"list",
"member":{"shape":"ReportType"}
},
"ResourceInventory":{
"type":"structure",
"members":{
"ResourceId":{
"shape":"String",
"documentation":" ID of the resource. "
},
"ResourceType":{
"shape":"ResourceType",
"documentation":" Type of resource. "
},
"ResourceArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the resource. "
},
"Platform":{
"shape":"String",
"documentation":" Platform of the resource. "
},
"PlatformVersion":{
"shape":"String",
"documentation":" Platform version of the resource in the inventory. "
},
"ResourceOwningAccountId":{
"shape":"String",
"documentation":" ID of the account that owns the resource. "
}
},
"documentation":" Details about a resource. "
},
"ResourceInventoryList":{
"type":"list",
"member":{"shape":"ResourceInventory"}
},
"ResourceLimitExceededException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"documentation":" Your resource limits have been exceeded. ",

```
  "exception":true
},
"ResourceNotFoundException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>The resource cannot be found.</p>",
  "exception":true
},
"ResourceType":{
  "type":"string",
  "enum":[
    "EC2_INSTANCE",
    "EC2_HOST",
    "EC2_AMI",
    "RDS",
    "SYSTEMS_MANAGER_MANAGED_INSTANCE"
  ]
},
"S3Location":{
  "type":"structure",
  "members":{
    "bucket":{
      "shape":"String",
      "documentation":"<p>Name of the S3 bucket reports are published to.</p>"
    },
    "keyPrefix":{
      "shape":"String",
      "documentation":"<p>Prefix of the S3 bucket reports are published to.</p>"
    }
  },
  "documentation":"<p>Details of the S3 bucket that report generator reports are published to.</p>"
},
"ServerInternalException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>The server experienced an internal error. Try again.</p>",
   "exception":true,
  "fault":true
},
"SignedToken":{
  "type":"string",
  "min":4096
},
"StatusReasonMessage":{
```

```
  "type":"string",
  "max":400,
  "pattern":"[\\s\\S]+"
},
"String":{"type":"string"},
"StringList":{
  "type":"list",
  "member":{"shape":"String"}
},
"Tag":{
  "type":"structure",
  "members":{
    "Key":{
      "shape":"String",
      "documentation":"<p>Tag key.</p>"
    },
    "Value":{
      "shape":"String",
      "documentation":"<p>Tag value.</p>"
    }
  },
  "documentation":"<p>Details about a tag for a license configuration.</p>"
},
"TagKeyList":{
  "type":"list",
  "member":{"shape":"String"}
},
"TagList":{
  "type":"list",
  "member":{"shape":"Tag"}
},
"TagResourceRequest":{
  "type":"structure",
  "required":[
    "ResourceArn",
    "Tags"
  ],
  "members":{
    "ResourceArn":{
       "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    },
    "Tags":{
      "shape":"TagList",
      "documentation":"<p>One or more tags.</p>"
    }
  }
},
```

"TagResourceResponse":{
"type":"structure",
"members":{
}
},
"TokenData":{
"type":"structure",
"members":{
"TokenId":{
"shape":"String",
"documentation":" Token ID. "
},
"TokenType":{
"shape":"String",
"documentation":" Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>. "
},
"LicenseArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the license. "
},
"ExpirationTime":{
"shape":"ISO8601DateTime",
"documentation":" Token expiration time, in ISO8601-UTC format. "
},
"TokenProperties":{
"shape":"MaxSize3StringList",
"documentation":" Data specified by the caller. "
},
"RoleArns":{
"shape":"ArnList",
"documentation":" Amazon Resource Names (ARN) of the roles included in the token. "
},
"Status":{
"shape":"String",
"documentation":" Token status. The possible values are <code>AVAILABLE</code> and
<code>DELETED</code>. "
}
},
"documentation":" Describes a token. "
},
"TokenList":{
"type":"list",
"member":{"shape":"TokenData"}
},
"TokenString":{
"type":"string",
"max":4096,

"pattern":"\\S+"
},
"TokenType":{
"type":"string",
"enum":["REFRESH_TOKEN"]
},
"UnsupportedDigitalSignatureMethodException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"documentation":" The digital signature method is unsupported.
Try your request again. ",
"exception":true
},
"UntagResourceRequest":{
"type":"structure",
"required":[
"ResourceArn",
"TagKeys"
],
"members":{
"ResourceArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the license configuration. "
},
"TagKeys":{
"shape":"TagKeyList",
"documentation":" Keys identifying the tags to remove. "
}
}
},
"UntagResourceResponse":{
"type":"structure",
"members":{
}
},
"UpdateLicenseConfigurationRequest":{
"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{
"LicenseConfigurationArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the license configuration. "
},
"LicenseConfigurationStatus":{
"shape":"LicenseConfigurationStatus",
"documentation":" New

status of the license configuration. "
},
"LicenseRules":{
"shape":"StringList",
"documentation":" New license rule. The only rule that you can add after you create a license configuration is licenseAffinityToHost. "
},
"LicenseCount":{
"shape":"BoxLong",
"documentation":" New number of licenses managed by the license configuration. "
},
"LicenseCountHardLimit":{
"shape":"BoxBoolean",
"documentation":" New hard limit of the number of available licenses. "
},
"Name":{
"shape":"String",
"documentation":" New name of the license configuration. "
},
"Description":{
"shape":"String",
"documentation":" New description of the license configuration. "
},
"ProductInformationList":{
"shape":"ProductInformationList",
"documentation":" New product information. "
},
"DisassociateWhenNotFound":{
"shape":"BoxBoolean",
"documentation":" When true, disassociates a resource when software is uninstalled. "
}
}
},
"UpdateLicenseConfigurationResponse":{
"type":"structure",
"members":{
}
},
"UpdateLicenseManagerReportGeneratorRequest":{
"type":"structure",
"required":[
"LicenseManagerReportGeneratorArn",
"ReportGeneratorName",
"Type",
"ReportContext",
"ReportFrequency",
"ClientToken"

```
    ],
    "members":{
      "LicenseManagerReportGeneratorArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Name (ARN) of the report generator to update.</p>"
      },
      "ReportGeneratorName":{
        "shape":"ReportGeneratorName",
        "documentation":"<p>Name of the report generator.</p>"
      },
      "Type":{
        "shape":"ReportTypeList",
         "documentation":"<p>Type of reports to generate. The following report types are supported:</p> <ul> <li> <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p> </li> <li> <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p> </li> </ul>"
      },
      "ReportContext":{
        "shape":"ReportContext",
        "documentation":"<p>The report context.</p>"
      },
      "ReportFrequency":{
        "shape":"ReportFrequency",
        "documentation":"<p>Frequency by which reports are generated.</p>"
      },
      "ClientToken":{
        "shape":"ClientRequestToken",
        "documentation":"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>"
      },
      "Description":{
        "shape":"String",
        "documentation":"<p>Description of the report generator.</p>"

  }
    }
  },
  "UpdateLicenseManagerReportGeneratorResponse":{
    "type":"structure",
    "members":{
    }
  },
  "UpdateLicenseSpecificationsForResourceRequest":{
    "type":"structure",
    "required":["ResourceArn"],
    "members":{
      "ResourceArn":{
        "shape":"String",
```

"documentation":" Amazon Resource Name (ARN) of the Amazon Web Services resource. "
},
"AddLicenseSpecifications":{
"shape":"LicenseSpecifications",
"documentation":" ARNs of the license configurations to add. "
},
"RemoveLicenseSpecifications":{
"shape":"LicenseSpecifications",
"documentation":" ARNs of the license configurations to remove. "
}
}
},
"UpdateLicenseSpecificationsForResourceResponse":{
"type":"structure",
"members":{
}
},
"UpdateServiceSettingsRequest":{
"type":"structure",
"members":{
"S3BucketArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the Amazon S3 bucket where the License Manager information is stored. "
},
"SnsTopicArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
},
"OrganizationConfiguration":{
"shape":"OrganizationConfiguration",
"documentation":" Enables integration with Organizations for cross-account discovery. "
},
"EnableCrossAccountsDiscovery":{
"shape":"BoxBoolean",
"documentation":" Activates cross-account discovery. "
}
}
},
"UpdateServiceSettingsResponse":{
"type":"structure",
"members":{
}
},
"UsageOperation":{
"type":"string",
"max":50

},
"ValidationException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"documentation":" The provided input is not valid. Try your request again. ",
"exception":true
}
},
"documentation":" License Manager makes it easier to manage licenses from software vendors across multiple Amazon Web Services accounts and on-premises servers. "
}
{
"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
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"params": {
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            "UseDualStack": false
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        "expect": {
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            "UseDualStack": false
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            "UseDualStack": false
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      "UseDualStack": false
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"endpoint": {
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        "UseDualStack": false
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      "UseDualStack": true
    }
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      "UseFIPS": true,
      "UseDualStack": false
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    "expect": {
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    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": false,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
```

```
            }
        },
        "params":
{
            "Region": "us-isob-east-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
        "expect": {
            "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
        },
        "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": true,
            "UseDualStack": true
        }
    },
    {
        "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
            }
        },
        "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": true,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
        "expect": {
            "error": "DualStack is enabled but this partition does not support DualStack"
        },
        "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": false,
            "UseDualStack": true
        }
    },
    {
        "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
        "expect": {
            "endpoint": {
```

```
            "url": "https://example.com"
        }
    },
    "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
    }
},
{
    "documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
    "expect": {
        "endpoint": {
            "url": "https://example.com"
        }
    },
    "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
    }
},
{
    "documentation": "For custom endpoint with fips enabled and dualstack disabled",
    "expect": {
        "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
    },
    "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
    }
},
{
    "documentation": "For custom endpoint with fips disabled and dualstack enabled",
    "expect": {
        "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
    },
    "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": true,
        "Endpoint": "https://example.com"
    }
},
{
```

"documentation": "Missing region",
"expect": {
"error": "Invalid Configuration: Missing Region"
}
}
],
"version": "1.0"
}
AWS Signature Version 4 Test Suite
Copyright 2019 Amazon.com, Inc. or its affiliates. All Rights Reserved.
{
"version":"2.0",
"metadata":{
"apiVersion":"2018-05-10",
"endpointPrefix":"license-manager-user-subscriptions",
"jsonVersion":"1.1",
"protocol":"rest-json",
"protocols":["rest-json"],
"serviceFullName":"AWS License Manager User Subscriptions",
"serviceId":"License Manager User Subscriptions",
"signatureVersion":"v4",
"signingName":"license-manager-user-subscriptions",
"uid":"license-manager-user-subscriptions-2018-05-10",
"auth":["aws.auth#sigv4"]
},
"operations":{
"AssociateUser":{
"name":"AssociateUser",
"http":{
"method":"POST",
"requestUri":"/user/AssociateUser",
"responseCode":200
},
"input":{"shape":"AssociateUserRequest"},
"output":{"shape":"AssociateUserResponse"},
"errors":[
{"shape":"ServiceQuotaExceededException"},
{"shape":"ConflictException"},
{"shape":"ValidationException"},
{"shape":"ThrottlingException"},
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"AccessDeniedException"}
],
"documentation":" Associates the user to an EC2 instance to utilize user-based subscriptions. <note> Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more information, see Viewing

your monthly charges in the Amazon Web Services Billing User Guide. </note>",
    "idempotent":true
  },
  "CreateLicenseServerEndpoint":{
    "name":"CreateLicenseServerEndpoint",
    "http":{
      "method":"POST",
      "requestUri":"/license-server/CreateLicenseServerEndpoint",
      "responseCode":200
    },
    "input":{"shape":"CreateLicenseServerEndpointRequest"},
    "output":{"shape":"CreateLicenseServerEndpointResponse"},
    "errors":[
      {"shape":"ServiceQuotaExceededException"},
      {"shape":"ConflictException"},
      {"shape":"ValidationException"},
      {"shape":"ThrottlingException"},
      {"shape":"InternalServerException"},
      {"shape":"ResourceNotFoundException"},
      {"shape":"AccessDeniedException"}
    ],
    "documentation":" Creates a network endpoint for the Remote Desktop Services (RDS) license server. ",
    "idempotent":true
  },
  "DeleteLicenseServerEndpoint":{
    "name":"DeleteLicenseServerEndpoint",
    "http":{
      "method":"POST",
      "requestUri":"/license-server/DeleteLicenseServerEndpoint",
      "responseCode":200
    },
    "input":{"shape":"DeleteLicenseServerEndpointRequest"},
    "output":{"shape":"DeleteLicenseServerEndpointResponse"},
    "errors":[
      {"shape":"ServiceQuotaExceededException"},
      {"shape":"ConflictException"},
      {"shape":"ValidationException"},
      {"shape":"ThrottlingException"},
      {"shape":"InternalServerException"},
      {"shape":"ResourceNotFoundException"},
      {"shape":"AccessDeniedException"}
    ],
    "documentation":" Deletes a <code>LicenseServerEndpoint</code> resource. ",
    "idempotent":true
  },
  "DeregisterIdentityProvider":{
    "name":"DeregisterIdentityProvider",
    "http":{

"method":"POST",
"requestUri":"/identity-provider/DeregisterIdentityProvider",
"responseCode":200
},
"input":{"shape":"DeregisterIdentityProviderRequest"},
"output":{"shape":"DeregisterIdentityProviderResponse"},
"errors":[
{"shape":"ServiceQuotaExceededException"},
{"shape":"ConflictException"},
{"shape":"ValidationException"},
{"shape":"ThrottlingException"},
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"AccessDeniedException"}

],
"documentation":" Deregisters the Active Directory identity provider from License Manager user-based subscriptions. ",
"idempotent":true
},
"DisassociateUser":{
"name":"DisassociateUser",
"http":{
"method":"POST",
"requestUri":"/user/DisassociateUser",
"responseCode":200
},
"input":{"shape":"DisassociateUserRequest"},
"output":{"shape":"DisassociateUserResponse"},
"errors":[
{"shape":"ServiceQuotaExceededException"},
{"shape":"ConflictException"},
{"shape":"ValidationException"},
{"shape":"ThrottlingException"},
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"AccessDeniedException"}
],
"documentation":" Disassociates the user from an EC2 instance providing user-based subscriptions. ",
"idempotent":true
},
"ListIdentityProviders":{
"name":"ListIdentityProviders",

"http":{
"method":"POST",
"requestUri":"/identity-provider/ListIdentityProviders",
"responseCode":200

```
  },
  "input":{"shape":"ListIdentityProvidersRequest"},
  "output":{"shape":"ListIdentityProvidersResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerException"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Lists the Active Directory identity providers for user-based subscriptions.</p>"
},
"ListInstances":{
  "name":"ListInstances",
  "http":{
    "method":"POST",
    "requestUri":"/instance/ListInstances",
    "responseCode":200
  },
  "input":{"shape":"ListInstancesRequest"},
  "output":{"shape":"ListInstancesResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
     {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerException"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Lists the EC2 instances providing user-based subscriptions.</p>"
},
"ListLicenseServerEndpoints":{
  "name":"ListLicenseServerEndpoints",
  "http":{
    "method":"POST",
    "requestUri":"/license-server/ListLicenseServerEndpoints",
    "responseCode":200
  },
  "input":{"shape":"ListLicenseServerEndpointsRequest"},
  "output":{"shape":"ListLicenseServerEndpointsResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
```

{"shape":"InternalServerException"},
{"shape":"AccessDeniedException"}
],
"documentation":" List the Remote Desktop Services (RDS) License Server endpoints "
},
"ListProductSubscriptions":{
"name":"ListProductSubscriptions",
"http":{
"method":"POST",
"requestUri":"/user/ListProductSubscriptions",
"responseCode":200
},
"input":{"shape":"ListProductSubscriptionsRequest"},
"output":{"shape":"ListProductSubscriptionsResponse"},
"errors":[
{"shape":"ServiceQuotaExceededException"},
{"shape":"ConflictException"},
{"shape":"ValidationException"},
{"shape":"ThrottlingException"},
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"AccessDeniedException"}
],
"documentation":" Lists the user-based subscription products available from an identity provider. "
},
"ListTagsForResource":{
"name":"ListTagsForResource",
"http":{
"method":"GET",
"requestUri":"/tags/{ResourceArn}",
"responseCode":200
},
"input":{"shape":"ListTagsForResourceRequest"},
"output":{"shape":"ListTagsForResourceResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"}
],
"documentation":" Returns the list of tags for the specified resource. "
},
"ListUserAssociations":{
"name":"ListUserAssociations",
"http":{
"method":"POST",
"requestUri":"/user/ListUserAssociations",
"responseCode":200
},

"input":{"shape":"ListUserAssociationsRequest"},
"output":{"shape":"ListUserAssociationsResponse"},
"errors":[
{"shape":"ServiceQuotaExceededException"},
{"shape":"ConflictException"},
{"shape":"ValidationException"},
{"shape":"ThrottlingException"},
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"AccessDeniedException"}
],
"documentation":" Lists user associations for an identity provider. "
},
"RegisterIdentityProvider":{
"name":"RegisterIdentityProvider",
"http":{
"method":"POST",
"requestUri":"/identity-provider/RegisterIdentityProvider",
"responseCode":200
},
"input":{"shape":"RegisterIdentityProviderRequest"},
"output":{"shape":"RegisterIdentityProviderResponse"},
"errors":[
{"shape":"ServiceQuotaExceededException"},
{"shape":"ConflictException"},
{"shape":"ValidationException"},
{"shape":"ThrottlingException"},
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"AccessDeniedException"}
],
"documentation":" Registers an identity provider for user-based subscriptions. ",
"idempotent":true
},
"StartProductSubscription":{
"name":"StartProductSubscription",
"http":{
"method":"POST",
"requestUri":"/user/StartProductSubscription",
"responseCode":200
},
"input":{"shape":"StartProductSubscriptionRequest"},
"output":{"shape":"StartProductSubscriptionResponse"},
"errors":[
{"shape":"ServiceQuotaExceededException"},
{"shape":"ConflictException"},
{"shape":"ValidationException"},
{"shape":"ThrottlingException"},

{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"AccessDeniedException"}
],
"documentation":" Starts a product subscription for a user with the specified identity provider. <note> Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more information, see Viewing your monthly charges in the Amazon Web Services Billing User Guide. </note>"
},
"StopProductSubscription":{
"name":"StopProductSubscription",
"http":{
"method":"POST",
"requestUri":"/user/StopProductSubscription",
"responseCode":200
},
"input":{"shape":"StopProductSubscriptionRequest"},
"output":{"shape":"StopProductSubscriptionResponse"},
"errors":[
{"shape":"ServiceQuotaExceededException"},
{"shape":"ConflictException"},
{"shape":"ValidationException"},
{"shape":"ThrottlingException"},
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"AccessDeniedException"}
],
"documentation":" Stops a product subscription for a user with the specified identity provider. "
},
"TagResource":{
"name":"TagResource",

"http":{
"method":"PUT",
"requestUri":"/tags/{ResourceArn}",
"responseCode":200
},
"input":{"shape":"TagResourceRequest"},
"output":{"shape":"TagResourceResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"}
],
"documentation":" Adds tags to a resource. ",
"idempotent":true
},

"UntagResource":{
"name":"UntagResource",
"http":{
"method":"DELETE",
"requestUri":"/tags/{ResourceArn}",
"responseCode":200
},
"input":{"shape":"UntagResourceRequest"},
"output":{"shape":"UntagResourceResponse"},
"errors":[
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"}
],
"documentation":" Removes tags from a resource. ",
"idempotent":true
},
"UpdateIdentityProviderSettings":{
"name":"UpdateIdentityProviderSettings",
"http":{
"method":"POST",
"requestUri":"/identity-provider/UpdateIdentityProviderSettings",
"responseCode":200
},
"input":{"shape":"UpdateIdentityProviderSettingsRequest"},
"output":{"shape":"UpdateIdentityProviderSettingsResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"ThrottlingException"},
{"shape":"InternalServerException"},
{"shape":"AccessDeniedException"}
],
"documentation":" Updates additional product configuration settings for the registered identity provider. ",
"idempotent":true
}
},
"shapes":{
"AccessDeniedException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
},
"documentation":" You don't have sufficient access to perform this action. ",
"exception":true
},
"ActiveDirectoryIdentityProvider":{
"type":"structure",
"members":{

"ActiveDirectorySettings":{
"shape":"ActiveDirectorySettings",
"documentation":" The <code>ActiveDirectorySettings</code> resource contains details about the Active Directory, including network access details such as domain name and IP addresses, and the credential provider for user administration. "
},
"ActiveDirectoryType":{
"shape":"ActiveDirectoryType",
"documentation":" The type of Active Directory either a self-managed Active Directory or an Amazon Web Services Managed Active Directory. "
},
"DirectoryId":{
"shape":"Directory",
"documentation":" The directory ID for an Active Directory identity provider. "
}
},
"documentation":" Details about an Active Directory identity provider. "
},
"ActiveDirectorySettings":{
"type":"structure",
"members":{
"DomainCredentialsProvider":{
"shape":"CredentialsProvider",

"documentation":" Points to the <code>CredentialsProvider</code> resource that contains information about the credential provider for user administration. "
},
"DomainIpv4List":{
"shape":"ActiveDirectorySettingsDomainIpv4ListList",
"documentation":" A list of domain IPv4 addresses that are used for the Active Directory. "
},
"DomainName":{
"shape":"String",
"documentation":" The domain name for the Active Directory. "
},
"DomainNetworkSettings":{
"shape":"DomainNetworkSettings",
"documentation":" The <code>DomainNetworkSettings</code> resource contains an array of subnets that apply for the Active Directory. "
}
},
"documentation":" Contains network access and credential details that are needed for user administration in the Active Directory. "
},
"ActiveDirectorySettingsDomainIpv4ListList":{
"type":"list",
"member":{"shape":"IpV4"},

"max":2,
"min":1
},
"ActiveDirectoryType":{
"type":"string",
"enum":[
"SELF_MANAGED",
"AWS_MANAGED"
]
},
"Arn":{
"type":"string",
"pattern":"^arn:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-zA-Z0-9-\\.]{1,510}/[a-zA-Z0-9-\\.]{1,510}$"
},
"AssociateUserRequest":{
"type":"structure",
"required":[
"IdentityProvider",
"InstanceId",
"Username"
],
"members":{
"Domain":{
"shape":"String",
"documentation":" The domain name of the Active Directory that contains information for the user to associate. "
},
"IdentityProvider":{
"shape":"IdentityProvider",
"documentation":" The identity provider for the user. "
},
"InstanceId":{
"shape":"String",
"documentation":" The ID of the EC2 instance that provides the user-based subscription. "
},
"Tags":{
"shape":"Tags",
"documentation":" The tags that apply for the user association. "
},
"Username":{
"shape":"String",
"documentation":" The user name from the identity provider. "
}
}
},
"AssociateUserResponse":{

"type":"structure",
"required":["InstanceUserSummary"],
"members":{
"InstanceUserSummary":{
"shape":"InstanceUserSummary",
"documentation":" Metadata that describes the associate user operation. "
}
}
},
"BoxInteger":{
"type":"integer",
"box":true
},
"ConflictException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
},
"documentation":" The request couldn't be completed because it conflicted with the current state of the resource. ",
"exception":true,
"fault":true
},
"CreateLicenseServerEndpointRequest":{
"type":"structure",
"required":[
"IdentityProviderArn",
"LicenseServerSettings"
],
"members":{
"IdentityProviderArn":{
"shape":"Arn",
"documentation":" The Amazon Resource Name (ARN) that identifies the <code>IdentityProvider</code> resource that contains details about a registered identity provider. In the case of Active Directory, that can be a self-managed Active Directory or an Amazon Web Services Managed Active Directory that contains user identity details. "
},
"LicenseServerSettings":{
"shape":"LicenseServerSettings",
"documentation":" The <code>LicenseServerSettings</code> resource to create for the endpoint. The settings include the type of license server and the Secrets Manager secret that enables administrators to add or remove users associated with the license server. "
},
"Tags":{
"shape":"Tags",
"documentation":" The tags that apply for the license server endpoint. "
}
}

```
  },
  "CreateLicenseServerEndpointResponse":{
    "type":"structure",
    "members":{
      "IdentityProviderArn":{
        "shape":"Arn",
        "documentation":"<p>The Amazon Resource Name (ARN) of the identity provider specified in the
request.</p>"
      },
      "LicenseServerEndpointArn":{
        "shape":"Arn",
        "documentation":"<p>The ARN of the <code>LicenseServerEndpoint</code> resource.</p>"
      }
    }
  },
  "CredentialsProvider":{
    "type":"structure",
    "members":{
      "SecretsManagerCredentialsProvider":{
        "shape":"SecretsManagerCredentialsProvider",
        "documentation":"<p>Identifies the Secrets Manager secret that contains credentials needed for user
administration in the Active Directory.</p>"
      }
    },
    "documentation":"<p>Contains information about the credential provider for user
 administration.</p>",
    "union":true
  },
  "DeleteLicenseServerEndpointRequest":{
    "type":"structure",
    "required":[
      "LicenseServerEndpointArn",
      "ServerType"
    ],
    "members":{
      "LicenseServerEndpointArn":{
        "shape":"Arn",
        "documentation":"<p>The Amazon Resource Name (ARN) that identifies the
<code>LicenseServerEndpoint</code> resource to delete.</p>"
      },
      "ServerType":{
        "shape":"ServerType",
        "documentation":"<p>The type of License Server that the delete request refers to.</p>"
      }
    }
  },
  "DeleteLicenseServerEndpointResponse":{
    "type":"structure",
```

"members":{
"LicenseServerEndpoint":{
"shape":"LicenseServerEndpoint",
"documentation":" Shows details from the <code>LicenseServerEndpoint</code> resource that was deleted. "
}
}
},
"DeregisterIdentityProviderRequest":{
"type":"structure",
"members":{
"IdentityProvider":{
"shape":"IdentityProvider",
"documentation":" An object that specifies details for the Active Directory identity provider. "
},
"IdentityProviderArn":{
"shape":"Arn",
"documentation":" The Amazon Resource Name (ARN) that identifies the identity provider to deregister. "
},
"Product":{
"shape":"String",
"documentation":" The name of the user-based subscription product. Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> | <code>REMOTE_DESKTOP_SERVICES</code> "
}
}
},
"DeregisterIdentityProviderResponse":{
"type":"structure",
"required":["IdentityProviderSummary"],
"members":{
"IdentityProviderSummary":{
"shape":"IdentityProviderSummary",
"documentation":" Metadata that describes the results of an identity provider operation. "
}
}
},
"Directory":{
"type":"string",
"pattern":"^(d|sd)-[0-9a-f]{10}$"
},
"DisassociateUserRequest":{
"type":"structure",
"members":{
"Domain":{
"shape":"String",

"documentation":" The domain name of the Active Directory that contains information for the user to disassociate. "
},
"IdentityProvider":{
"shape":"IdentityProvider",
"documentation":" An object that specifies details for the Active Directory identity provider. "
},
"InstanceId":{
"shape":"String",
"documentation":" The ID of the EC2 instance which provides user-based subscriptions. "
},
"InstanceUserArn":{
"shape":"Arn",
"documentation":" The Amazon Resource Name (ARN) of the user to disassociate from the EC2 instance. "
},
"Username":{
"shape":"String",
"documentation":" The user name from the Active Directory identity provider for the user. "
}
}
},
"DisassociateUserResponse":{
"type":"structure",
"required":["InstanceUserSummary"],
"members":{
"InstanceUserSummary":{
"shape":"InstanceUserSummary",
"documentation":" Metadata that describes the associate user operation. "
}
}
},
"DomainNetworkSettings":{
"type":"structure",
"required":["Subnets"],
"members":{
"Subnets":{
"shape":"DomainNetworkSettingsSubnetsList",
"documentation":" Contains a list of subnets that apply for the Active Directory domain. "
}
},
"documentation":" Contains network settings for the Active Directory domain. "
},
"DomainNetworkSettingsSubnetsList":{
"type":"list",
"member":{"shape":"Subnet"},
"min":1
},

"Filter":{
"type":"structure",
"members":{
"Attribute":{
"shape":"String",
"documentation":" The name of an attribute to use as a filter. "
},
"Operation":{
"shape":"String",
"documentation":" The type of search (For example, eq, geq, leq) "
},
"Value":{
"shape":"String",
"documentation":" Value of the filter. "
}
},
"documentation":" A filter name and value pair that is used to return more specific results from a describe or list operation. You can use filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs. "
},
"FilterList":{
"type":"list",
"member":{"shape":"Filter"}
},
"IdentityProvider":{
"type":"structure",
"members":{
"ActiveDirectoryIdentityProvider":{
"shape":"ActiveDirectoryIdentityProvider",
"documentation":" The <code>ActiveDirectoryIdentityProvider</code> resource contains settings and other details about a specific Active Directory identity provider. "
}
},
"documentation":" Refers to an identity provider. ",
"union":true
},
"IdentityProviderSummary":{
"type":"structure",
"required":[
"IdentityProvider",
"Product",
"Settings",
"Status"
],
"members":{
"FailureMessage":{
"shape":"String",
"documentation":" The failure message associated with an identity provider. "

},
"IdentityProvider":{
"shape":"IdentityProvider",
"documentation":" The <code>IdentityProvider</code> resource contains information about an identity provider. "
},
"IdentityProviderArn":{
"shape":"Arn",
"documentation":" The Amazon Resource Name (ARN) of the identity provider. "
},
"Product":{
"shape":"String",
"documentation":" The name of the user-based subscription product. "
},
"Settings":{
"shape":"Settings",
"documentation":" The <code>Settings</code> resource contains details about the registered identity providers product related configuration settings, such as the subnets to provision VPC endpoints. "
},
"Status":{
"shape":"String",
"documentation":" The status of the identity provider. "
}
},
"documentation":" Describes an identity provider. "
},
"IdentityProviderSummaryList":{
"type":"list",
"member":{"shape":"IdentityProviderSummary"}
},
"InstanceSummary":{
"type":"structure",
"required":[
"InstanceId",
"Products",
"Status"
],
"members":{
"InstanceId":{
"shape":"String",
"documentation":" The ID of the EC2 instance, which provides user-based subscriptions. "
},
"LastStatusCheckDate":{
"shape":"String",
"documentation":" The date of the last status check. "
},
"Products":{

"shape":"StringList",
"documentation":" A list of provided user-based subscription products. "
},
"Status":{
"shape":"String",
"documentation":" The status of an EC2 instance resource. "
},
"StatusMessage":{
"shape":"String",
"documentation":" The status message for an EC2 instance. "
}
},
"documentation":" Describes an EC2 instance providing user-based subscriptions. "
},
"InstanceSummaryList":{
"type":"list",
"member":{"shape":"InstanceSummary"}
},
"InstanceUserSummary":{
"type":"structure",
"required":[
"IdentityProvider",
"InstanceId",
"Status",
"Username"
],
"members":{
"AssociationDate":{

"shape":"String",
"documentation":" The date a user was associated with an EC2 instance. "
},
"DisassociationDate":{
"shape":"String",
"documentation":" The date a user was disassociated from an EC2 instance. "
},
"Domain":{
"shape":"String",
"documentation":" The domain name of the Active Directory that contains the user information for the product subscription. "
},
"IdentityProvider":{
"shape":"IdentityProvider",
"documentation":" The <code>IdentityProvider</code> resource specifies details about the identity provider. "
},
"InstanceId":{
"shape":"String",

"documentation":" The ID of the EC2 instance that provides user-based subscriptions. "
},
"InstanceUserArn":{
"shape":"Arn",
"documentation":" The Amazon Resource Name (ARN) that identifies the instance user. "

},
"Status":{
"shape":"String",
"documentation":" The status of a user associated with an EC2 instance. "
},
"StatusMessage":{
"shape":"String",
"documentation":" The status message for users of an EC2 instance. "
},
"Username":{
"shape":"String",
"documentation":" The user name from the identity provider for the user. "
}
},
"documentation":" Describes users of an EC2 instance providing user-based subscriptions. "
},
"InstanceUserSummaryList":{
"type":"list",
"member":{"shape":"InstanceUserSummary"}
},
"InternalServerException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
},
"documentation":" An exception occurred with the service. ",
"error":{"httpStatusCode":500},
"exception":true,
"fault":true
},
"IpV4":{
"type":"string",

"pattern":"^(?:(25[0-5]|2[0-4][0-9]|1[0-9][0-9]|[1-9][0-9]|[0-9])(\\.(?!$)|$)){4}$"
},
"LicenseServer":{
"type":"structure",
"members":{
"HealthStatus":{
"shape":"LicenseServerHealthStatus",
"documentation":" The health status of the RDS license server. "
},

"Ipv4Address":{
"shape":"String",
"documentation":" A list of domain IPv4 addresses that are used for the RDS license server. "
},
"ProvisioningStatus":{
"shape":"LicenseServerEndpointProvisioningStatus",
"documentation":" The current state of the provisioning process for the RDS license server. "
}
},
"documentation":" Information about a Remote Desktop Services (RDS) license server. "
},
"LicenseServerEndpoint":{
"type":"structure",
"members":{
"CreationTime":{
"shape":"Timestamp",
"documentation":" The timestamp when License
Manager created the license server endpoint. "
},
"IdentityProviderArn":{
"shape":"String",
"documentation":" The Amazon Resource Name (ARN) of the identity provider that's associated with the
RDS license server endpoint. "
},
"LicenseServerEndpointArn":{
"shape":"Arn",
"documentation":" The ARN of the <code>ServerEndpoint</code> resource for the RDS license
server. "
},
"LicenseServerEndpointId":{
"shape":"LicenseServerEndpointId",
"documentation":" The ID of the license server endpoint. "
},
"LicenseServerEndpointProvisioningStatus":{
"shape":"LicenseServerEndpointProvisioningStatus",
"documentation":" The current state of the provisioning process for the RDS license server endpoint "
},
"LicenseServers":{
"shape":"LicenseServerList",
"documentation":" An array of <code>LicenseServer</code>
resources that represent the license servers that are accessed through this endpoint. "
},
"ServerEndpoint":{
"shape":"ServerEndpoint",
"documentation":" The <code>ServerEndpoint</code> resource contains the network address of the RDS
license server endpoint. "
},
"ServerType":{

"shape":"ServerType",
"documentation":" The type of license server. "
},
"StatusMessage":{
"shape":"String",
"documentation":" The message associated with the provisioning status, if there is one. "
}
},
"documentation":" Contains details about a network endpoint for a Remote Desktop Services (RDS) license server. "
},
"LicenseServerEndpointId":{"type":"string"},
"LicenseServerEndpointList":{
"type":"list",
"member":{"shape":"LicenseServerEndpoint"}
},
"LicenseServerEndpointProvisioningStatus":{
"type":"string",
"enum":[
"PROVISIONING",
"PROVISIONING_FAILED",
"PROVISIONED",
"DELETING",
"DELETION_FAILED",
"DELETED"
]
},
"LicenseServerHealthStatus":{
"type":"string",
"enum":[
"HEALTHY",
"UNHEALTHY",
"NOT_APPLICABLE"
]
},
"LicenseServerList":{
"type":"list",
"member":{"shape":"LicenseServer"}
},
"LicenseServerSettings":{
"type":"structure",
"required":[
"ServerSettings",
"ServerType"
],
"members":{
"ServerSettings":{
"shape":"ServerSettings",

"documentation":" The <code>ServerSettings</code> resource contains the settings for your server. "
},
"ServerType":{
"shape":"ServerType",
"documentation":" The type of license server. "
}
},
"documentation":" The settings to configure your license server. "
},
"ListIdentityProvidersRequest":{
"type":"structure",
"members":{
"Filters":{
"shape":"FilterList",
"documentation":" You can use the following filters to streamline results: <ul> Product   DirectoryId "
},
"MaxResults":{
"shape":"BoxInteger",
"documentation":" The maximum number of results to return from a single request. "
},
"NextToken":{
"shape":"String",
"documentation":" A token to specify where to start paginating. This is the nextToken from a previously truncated response. "
}
}
},
"ListIdentityProvidersResponse":{
"type":"structure",
"required":["IdentityProviderSummaries"],
"members":{
"IdentityProviderSummaries":{
"shape":"IdentityProviderSummaryList",
"documentation":" An array of <code>IdentityProviderSummary</code> resources that contain details about the
Active Directory identity providers that meet the request criteria. "
},
"NextToken":{
"shape":"String",
"documentation":" The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. "
}
}
},
"ListInstancesRequest":{
"type":"structure",

"members":{
"Filters":{
"shape":"FilterList",
"documentation":" You can use the following filters to streamline results: <ul> Status   InstanceId "
},
"MaxResults":{
"shape":"BoxInteger",
"documentation":" The maximum number of results to return from a single request. "
},
"NextToken":{
"shape":"String",
"documentation":" A token to specify where to start paginating. This is the nextToken from a previously truncated response. "
}
}
},
"ListInstancesResponse":{
"type":"structure",
"members":{
"InstanceSummaries":{
"shape":"InstanceSummaryList",
"documentation":" An array of <code>InstanceSummary</code> resources that contain details about the instances that provide user-based subscriptions and also meet the request criteria. "
},
"NextToken":{
"shape":"String",
"documentation":" The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. "
}
}
},
"ListLicenseServerEndpointsRequest":{
"type":"structure",
"members":{
"Filters":{
"shape":"FilterList",
"documentation":" You can use the following filters to streamline results: <ul> IdentityProviderArn "
},
"MaxResults":{
"shape":"ListLicenseServerEndpointsRequestMaxResultsInteger",
"documentation":" The maximum number of results to return from a single request. "
},
"NextToken":{
"shape":"String",
"documentation":" A token to specify where to start paginating. This is the nextToken from a previously

truncated response. "
      }
    }
  },
  "ListLicenseServerEndpointsRequestMaxResultsInteger":{
    "type":"integer",
    "box":true,
    "max":100,
    "min":1
  },
  "ListLicenseServerEndpointsResponse":{
    "type":"structure",
    "members":{
      "LicenseServerEndpoints":{
        "shape":"LicenseServerEndpointList",
        "documentation":" An array of <code>LicenseServerEndpoint</code> resources that contain detailed information about the RDS License Servers that meet the request criteria. "
      },

      "NextToken":{
        "shape":"String",
        "documentation":" The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. "
      }
    }
  },
  "ListProductSubscriptionsRequest":{
    "type":"structure",
    "required":["IdentityProvider"],
    "members":{
      "Filters":{
        "shape":"FilterList",
        "documentation":" You can use the following filters to streamline results: <ul> Status   Username   Domain "
      },
      "IdentityProvider":{
        "shape":"IdentityProvider",
        "documentation":" An object that specifies details for the identity provider. "
      },
      "MaxResults":{
        "shape":"BoxInteger",
        "documentation":" The maximum number of results to return from a single request. "
      },
      "NextToken":{
        "shape":"String",
        "documentation":" A token to specify where to start paginating. This is the nextToken from a previously

truncated response. "
      },
      "Product":{
        "shape":"String",
        "documentation":" The name of the user-based subscription product. Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> | <code>REMOTE_DESKTOP_SERVICES</code> "
      }
    }
  },
  "ListProductSubscriptionsResponse":{
    "type":"structure",
    "members":{
      "NextToken":{
        "shape":"String",
        "documentation":" The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. "
      },
      "ProductUserSummaries":{
        "shape":"ProductUserSummaryList",
        "documentation":" Metadata that describes the list product subscriptions operation. "
      }
    }
  },
  "ListTagsForResourceRequest":{
    "type":"structure",
    "required":["ResourceArn"],
    "members":{
      "ResourceArn":{
        "shape":"ResourceArn",
        "documentation":" The Amazon Resource Name (ARN) of the resource whose tags you want to retrieve. ",
        "location":"uri",
        "locationName":"ResourceArn"
      }
    }
  },
  "ListTagsForResourceResponse":{
    "type":"structure",
    "members":{
      "Tags":{
        "shape":"Tags",
        "documentation":" The tags for the specified resource. "
      }
    }
  },
  "ListUserAssociationsRequest":{

"type":"structure",
"required":[
"IdentityProvider",
"InstanceId"
],
"members":{
"Filters":{
"shape":"FilterList",
"documentation":" You can use the following filters to streamline results: <ul> Status   Username   Domain "
},
"IdentityProvider":{
"shape":"IdentityProvider",
"documentation":" An object that specifies details for the identity provider. "
},
"InstanceId":{
"shape":"String",
"documentation":" The ID of the EC2 instance, which provides user-based subscriptions. "
},
"MaxResults":{
"shape":"BoxInteger",
"documentation":" The maximum number of results to return from a single request. "
},
"NextToken":{
"shape":"String",
"documentation":" A token to specify where to start paginating. This is the nextToken from a previously truncated response. "
}
}
},
"ListUserAssociationsResponse":{
"type":"structure",
"members":{
"InstanceUserSummaries":{
"shape":"InstanceUserSummaryList",
"documentation":" Metadata that describes the list user association operation. "
},
"NextToken":{
"shape":"String",
"documentation":" The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. "
}
}
},
"ProductUserSummary":{
"type":"structure",

"required":[
"IdentityProvider",
"Product",
"Status",
"Username"
],
"members":{
"Domain":{
"shape":"String",
"documentation":" The domain name of the Active Directory that contains the user information for the product subscription. "
},
"IdentityProvider":{
"shape":"IdentityProvider",
"documentation":" An object that specifies details for the identity provider. "
},
"Product":{
"shape":"String",
"documentation":" The name of the user-based subscription product. "
},
"ProductUserArn":{
"shape":"Arn",
"documentation":" The Amazon Resource Name (ARN) for this product user. "
},
"Status":{
"shape":"String",
"documentation":" The status of a product for this user. "
},
"StatusMessage":{
"shape":"String",
"documentation":" The status message for a product for this user. "
},
"SubscriptionEndDate":{
"shape":"String",
"documentation":" The end date of a subscription. "
},
"SubscriptionStartDate":{
"shape":"String",
"documentation":" The start date of a subscription. "
},
"Username":{
"shape":"String",
"documentation":" The user name from the identity provider for this product user. "
}
},
"documentation":" A summary of the user-based subscription products for a specific user. "

```
  },
  "ProductUserSummaryList":{
    "type":"list",
    "member":{"shape":"ProductUserSummary"}
  },
  "RdsSalSettings":{
    "type":"structure",
    "required":["RdsSalCredentialsProvider"],
    "members":{
      "RdsSalCredentialsProvider":{
        "shape":"CredentialsProvider",
        "documentation":"<p>The <code>CredentialsProvider</code> resource contains a reference to the credentials provider that's used for RDS license server user administration.</p>"
      }
    },
    "documentation":"<p>Server settings that are specific to a Remote Desktop Services (RDS) license server.</p>"
  },
  "RegisterIdentityProviderRequest":{
    "type":"structure",
    "required":[
      "IdentityProvider",
      "Product"
    ],
    "members":{
      "IdentityProvider":{

        "shape":"IdentityProvider",
        "documentation":"<p>An object that specifies details for the identity provider to register.</p>"
      },
      "Product":{
        "shape":"String",
        "documentation":"<p>The name of the user-based subscription product.</p> <p>Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> | <code>REMOTE_DESKTOP_SERVICES</code> </p>"
      },
      "Settings":{
        "shape":"Settings",
        "documentation":"<p>The registered identity providers product related configuration settings such as the subnets to provision VPC endpoints.</p>"
      },
      "Tags":{
        "shape":"Tags",
        "documentation":"<p>The tags that apply to the identity provider's registration.</p>"
      }
    }
  },
  "RegisterIdentityProviderResponse":{
    "type":"structure",
```

"required":["IdentityProviderSummary"],
"members":{
"IdentityProviderSummary":{
"shape":"IdentityProviderSummary",
"documentation":" Metadata that describes the results of an identity provider operation. "
}
}
},
"ResourceArn":{
"type":"string",
"pattern":"^arn:([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,510})/([a-z0-9-\\.]{1,510})$"
},
"ResourceNotFoundException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
},
"documentation":" The resource couldn't be found. ",
"error":{
"httpStatusCode":404,
"senderFault":true
},
"exception":true
},
"SecretsManagerCredentialsProvider":{
"type":"structure",
"members":{
"SecretId":{
"shape":"SecretsManagerCredentialsProviderSecretIdString",
"documentation":" The ID of the Secrets Manager secret that contains credentials. "
}
},

"documentation":" Contains a credentials secret that's stored in Secrets Manager. "
},
"SecretsManagerCredentialsProviderSecretIdString":{
"type":"string",
"min":1
},
"SecurityGroup":{
"type":"string",
"max":200,
"min":5,
"pattern":"^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
},
"ServerEndpoint":{
"type":"structure",

"members":{
"Endpoint":{
"shape":"String",
"documentation":" The network address of the endpoint. "
}
},
"documentation":" A network endpoint through which you can access one or more servers. "
},
"ServerSettings":{
"type":"structure",
"members":{
"RdsSalSettings":{
"shape":"RdsSalSettings",
"documentation":" The <code>RdsSalSettings</code> resource contains settings to configure a specific Remote Desktop Services (RDS) license server. "
}
},
"documentation":" Contains settings for a specific server. ",
"union":true
},
"ServerType":{
"type":"string",
"enum":["RDS_SAL"]
},
"ServiceQuotaExceededException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
},
"documentation":" The request failed because a service quota is exceeded. ",
"exception":true
},
"Settings":{
"type":"structure",
"required":[
"SecurityGroupId",
"Subnets"
],
"members":{
"SecurityGroupId":{
"shape":"SecurityGroup",
"documentation":" A security group ID that allows inbound TCP port 1688 communication between resources in your VPC and the VPC endpoint for activation servers. "
},
"Subnets":{
"shape":"SettingsSubnetsList",
"documentation":" The subnets defined for the registered identity provider. "

}
},
"documentation":" The registered identity providers
product related configuration settings such as the subnets to provision VPC endpoints, and the security group ID that is associated with the VPC endpoints. The security group should permit inbound TCP port 1688 communication from resources in the VPC. "
},
"SettingsSubnetsList":{
"type":"list",
"member":{"shape":"Subnet"},
"min":1
},
"StartProductSubscriptionRequest":{
"type":"structure",
"required":[
"IdentityProvider",
"Product",
"Username"
],
"members":{
"Domain":{
"shape":"String",
"documentation":" The domain name of the Active Directory that contains the user for whom to start the product subscription. "
},
"IdentityProvider":{
"shape":"IdentityProvider",
"documentation":" An object that specifies details for the identity provider. "
},
"Product":{
"shape":"String",
"documentation":" The
name of the user-based subscription product. Valid values:
<code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> | <code>REMOTE_DESKTOP_SERVICES</code> "
},
"Tags":{
"shape":"Tags",
"documentation":" The tags that apply to the product subscription. "
},
"Username":{
"shape":"String",
"documentation":" The user name from the identity provider of the user. "
}
}
},
"StartProductSubscriptionResponse":{
"type":"structure",

"required":["ProductUserSummary"],
"members":{
"ProductUserSummary":{
"shape":"ProductUserSummary",
"documentation":" Metadata that describes the start product subscription operation. "
}
}
},
"StopProductSubscriptionRequest":{
"type":"structure",
"members":{
"Domain":{
"shape":"String",
"documentation":" The domain name of the Active Directory that contains the user for whom to stop the product subscription. "
},
"IdentityProvider":{
"shape":"IdentityProvider",
"documentation":" An object that specifies details for the identity provider. "
},
"Product":{
"shape":"String",
"documentation":" The name of the user-based subscription product. Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> | <code>REMOTE_DESKTOP_SERVICES</code> "
},
"ProductUserArn":{
"shape":"Arn",
"documentation":" The Amazon Resource Name (ARN) of the product user. "
},
"Username":{
"shape":"String",
"documentation":" The user name from the identity provider for the user. "
}
}
},
"StopProductSubscriptionResponse":{
"type":"structure",
"required":["ProductUserSummary"],
"members":{
"ProductUserSummary":{
"shape":"ProductUserSummary",
"documentation":" Metadata that describes the start product subscription operation. "
}
}
},
"String":{"type":"string"},
"StringList":{

```
  "type":"list",
  "member":{"shape":"String"}
},
"Subnet":{
  "type":"string",
  "pattern":"^subnet-[a-z0-9]{8,17}"
},
"Subnets":{
  "type":"list",
  "member":{"shape":"Subnet"}
},
"TagKeyList":{
  "type":"list",
  "member":{"shape":"String"},
  "max":50,
  "min":0,
  "sensitive":true
},
"TagResourceRequest":{
  "type":"structure",
  "required":[
    "ResourceArn",
    "Tags"
  ],
  "members":{
    "ResourceArn":{
      "shape":"ResourceArn",
      "documentation":"<p>The Amazon Resource Name (ARN) of the resource that you want to tag.</p>",

      "location":"uri",
      "locationName":"ResourceArn"
    },
    "Tags":{
      "shape":"Tags",
      "documentation":"<p>The tags to apply to the specified resource.</p>"
    }
  }
},
"TagResourceResponse":{
  "type":"structure",
  "members":{
  }
},
"Tags":{
  "type":"map",
  "key":{"shape":"String"},
  "value":{"shape":"String"},
  "max":50,
```

"min":0,
"sensitive":true
},
"ThrottlingException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
},
"documentation":" The request was denied because of request throttling. Retry the request. ",
"exception":true
},
"Timestamp":{"type":"timestamp"},
"UntagResourceRequest":{
"type":"structure",
"required":[
"ResourceArn",
"TagKeys"
],
"members":{
"ResourceArn":{
"shape":"ResourceArn",
"documentation":" The Amazon
Resource Name (ARN) of the resource that you want to remove tags from. ",
"location":"uri",
"locationName":"ResourceArn"
},
"TagKeys":{
"shape":"TagKeyList",
"documentation":" The tag keys to remove from the resource. ",
"location":"querystring",
"locationName":"tagKeys"
}
}
},
"UntagResourceResponse":{
"type":"structure",
"members":{
}
},
"UpdateIdentityProviderSettingsRequest":{
"type":"structure",
"required":["UpdateSettings"],
"members":{
"IdentityProvider":{"shape":"IdentityProvider"},
"IdentityProviderArn":{
"shape":"Arn",
"documentation":" The Amazon Resource Name (ARN) of the identity provider to update. "
},

"Product":{
"shape":"String",
"documentation":" The name of the user-based subscription product. Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> | <code>REMOTE_DESKTOP_SERVICES</code> "
},
"UpdateSettings":{
"shape":"UpdateSettings",
"documentation":" Updates the registered identity providers product related configuration settings. You can update any combination of settings in a single operation such as the: <ul> Subnets which you want to add to provision VPC endpoints.   Subnets which you want to remove the VPC endpoints from.   Security group ID which permits traffic to the VPC endpoints. "
}
}
},
"UpdateIdentityProviderSettingsResponse":{
"type":"structure",
"required":["IdentityProviderSummary"],
"members":{
"IdentityProviderSummary":{"shape":"IdentityProviderSummary"}
}
},
"UpdateSettings":{
"type":"structure",
"required":[
"AddSubnets",
"RemoveSubnets"
],
"members":{
"AddSubnets":{
"shape":"Subnets",
"documentation":" The ID of one or more subnets in which License Manager will create a VPC endpoint for products that require connectivity to activation servers. "
},
"RemoveSubnets":{
"shape":"Subnets",
"documentation":" The ID of one or more subnets to remove. "
},
"SecurityGroupId":{
"shape":"SecurityGroup",
"documentation":" A security group ID that allows inbound TCP port 1688 communication between resources in your VPC and the VPC endpoints for activation servers. "
}
},
"documentation":" Updates the registered identity providers product related configuration settings such as the subnets to provision VPC endpoints. "
},

"ValidationException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
},
"documentation":" A parameter
is not valid. ",
"exception":true
}
},
"documentation":" With License Manager, you can create user-based subscriptions to utilize licensed software with a per user subscription fee on Amazon EC2 instances. "
}
{
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {

"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}
},
"rules": [
{

```
"conditions": [
    {
        "fn": "isSet",
        "argv": [
            {
                "ref": "Endpoint"
            }
        ]
    }
],
"rules": [
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseFIPS"
                    },
                    true
                ]
            }
        ],
        "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
         "type": "error"
    },
    {
        "conditions": [],
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseDualStack"
                            },
                            true
                        ]
                    }
                ],
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                "type": "error"
            },
            {
                "conditions": [],
                "endpoint": {
                    "url": {
```

```
                "ref": "Endpoint"
                },
                "properties": {},
                "headers": {}
            },
            "type": "endpoint"
        }
    ],
    "type": "tree"
}
],
"type": "tree"
},
{
    "conditions": [],
    "rules": [
        {
            "conditions": [
                {
                    "fn": "isSet",
                    "argv": [
                        {
                            "ref": "Region"
                        }
                    ]
                }
            ],
            "rules": [
                {
                    "conditions": [
                        {

"fn": "aws.partition",
                            "argv": [
                                {
                                    "ref": "Region"
                                }
                            ],
                            "assign": "PartitionResult"
                        }
                    ],
                    "rules": [
                        {
                            "conditions": [
                                {
                                    "fn": "booleanEquals",
                                    "argv": [
```

```
                    {
                        "ref": "UseFIPS"
                    },
                    true
                ]
            },

        {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseDualStack"
                    },
                    true
                ]
            }
        ],
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
                            {

"fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsFIPS"
                                ]
                            }
                        ]
                    },
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
                            {

"fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsDualStack"
```

```
                                    ]
                                }
                            ]
                        }
                    ],
                    "rules": [
                        {
                            "conditions": [],
                            "rules": [
                                {

                "conditions": [],
                                    "endpoint": {
                                        "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                        "properties": {},
                                        "headers": {}
                                    },
                                    "type": "endpoint"
                                }
                            ],
                            "type": "tree"
                        }
                    ],
                    "type": "tree"
                },

        {
                    "conditions": [],
                    "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
                    "type": "error"
                }
            ],
            "type": "tree"
        },
        {
            "conditions": [
                {
                    "fn": "booleanEquals",
                    "argv": [
                        {
                            "ref": "UseFIPS"
                        },
                        true
                    ]
                }
```

```
                    ],
                    "rules": [
                        {
                            "conditions": [
                                {
                                    "fn": "booleanEquals",
                                    "argv": [
                                        {
                                            "fn": "getAttr",
                                            "argv": [
                                                {
                                                    "ref": "PartitionResult"
                                                },
                                                "supportsFIPS"
                                            ]

},
                                        true
                                    ]
                                }
                            ],
                            "rules": [
                                {
                                    "conditions": [],
                                    "rules": [
                                        {
                                            "conditions": [],
                                            "endpoint": {
                                                "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                                                "properties": {},
                                                "headers": {}

                                },
                                            "type": "endpoint"
                                        }
                                    ],
                                    "type": "tree"
                                }
                            ],
                            "type": "tree"
                        },
                        {
                            "conditions": [],
                            "error": "FIPS is enabled but this partition does not support FIPS",
                            "type": "error"
                        }
                    ],
```

```
                "type": "tree"
            },
            {

        "conditions": [
                {
                    "fn": "booleanEquals",
                    "argv": [
                        {
                            "ref": "UseDualStack"
                        },
                        true
                    ]
                }
            ],
            "rules": [
                {
                    "conditions": [
                        {
                            "fn": "booleanEquals",
                            "argv": [
                                true,

    {
                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsDualStack"
                                ]
                            }
                        ]
                    }
                ],
                "rules": [
                    {
                        "conditions": [],
                        "rules": [

            {
                                "conditions": [],
                                "endpoint": {
                                    "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                    "properties": {},
                                    "headers": {}
                                },
```

```
                                "type": "endpoint"
                            }
                        ],
                        "type": "tree"
                    }
                ],
                "type": "tree"

            },
                {
                    "conditions": [],
                    "error": "DualStack is enabled but this partition does not support DualStack",
                    "type": "error"
                }
            ],
            "type": "tree"
        },
        {
            "conditions": [],
            "rules": [
                {
                    "conditions": [],
                    "endpoint": {
                        "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                        "properties": {},

            "headers": {}
                    },
                    "type": "endpoint"
                }
            ],
            "type": "tree"
        }
    ],
    "type": "tree"
}
```

```
  ]
}
{
 "pagination": {
  "ListAssociationsForLicenseConfiguration": {
    "input_token": "NextToken",
    "limit_key": "MaxResults",
    "output_token": "NextToken",
    "result_key": "LicenseConfigurationAssociations"
  },
  "ListLicenseConfigurations": {
    "input_token": "NextToken",
    "limit_key": "MaxResults",
    "output_token": "NextToken",
    "result_key": "LicenseConfigurations"
  },
  "ListLicenseSpecificationsForResource": {
    "input_token": "NextToken",
    "limit_key": "MaxResults",
    "output_token": "NextToken",
    "result_key": "LicenseSpecifications"
  },
  "ListResourceInventory": {
    "input_token": "NextToken",
    "limit_key": "MaxResults",
    "output_token": "NextToken",
    "result_key": "ResourceInventoryList"
  },
  "ListUsageForLicenseConfiguration": {
    "input_token": "NextToken",
    "limit_key": "MaxResults",
    "output_token": "NextToken",
    "result_key": "LicenseConfigurationUsageList"
   }
 }
}
{
 "pagination": {
  "ListLinuxSubscriptionInstances": {
    "input_token": "NextToken",
    "output_token": "NextToken",
    "limit_key": "MaxResults",
    "result_key": "Instances"
  },
  "ListLinuxSubscriptions": {
    "input_token": "NextToken",
    "output_token": "NextToken",
    "limit_key": "MaxResults",
```

"result_key": "Subscriptions"
},
"ListRegisteredSubscriptionProviders": {
"input_token": "NextToken",
"output_token": "NextToken",
"limit_key": "MaxResults",
"result_key": "RegisteredSubscriptionProviders"
}
}
}
{
"version":"2.0",
"metadata":{
"apiVersion":"2018-05-10",
"endpointPrefix":"license-manager-linux-subscriptions",
"jsonVersion":"1.1",
"protocol":"rest-json",
"protocols":["rest-json"],
"serviceFullName":"AWS License Manager Linux Subscriptions",
"serviceId":"License Manager Linux Subscriptions",
"signatureVersion":"v4",
"signingName":"license-manager-linux-subscriptions",
"uid":"license-manager-linux-subscriptions-2018-05-10",
"auth":["aws.auth#sigv4"]
},
"operations":{
"DeregisterSubscriptionProvider":{
"name":"DeregisterSubscriptionProvider",
"http":{
"method":"POST",
"requestUri":"/subscription/DeregisterSubscriptionProvider",
"responseCode":200
},
"input":{"shape":"DeregisterSubscriptionProviderRequest"},
"output":{"shape":"DeregisterSubscriptionProviderResponse"},
"errors":[
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"ThrottlingException"},
{"shape":"ValidationException"}
],
"documentation":" Remove a third-party subscription provider from the Bring Your Own License (BYOL) subscriptions registered to your account. ",
"idempotent":true
},
"GetRegisteredSubscriptionProvider":{
"name":"GetRegisteredSubscriptionProvider",
"http":{

"method":"POST",
"requestUri":"/subscription/GetRegisteredSubscriptionProvider",
"responseCode":200
},
"input":{"shape":"GetRegisteredSubscriptionProviderRequest"},
"output":{"shape":"GetRegisteredSubscriptionProviderResponse"},
"errors":[
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"ThrottlingException"},
{"shape":"ValidationException"}
],
"documentation":" Get details for a Bring Your Own License (BYOL) subscription that's registered to your account. ",
"idempotent":true
},
"GetServiceSettings":{
"name":"GetServiceSettings",
"http":{
"method":"POST",
"requestUri":"/subscription/GetServiceSettings",
"responseCode":200
},
"input":{"shape":"GetServiceSettingsRequest"},
"output":{"shape":"GetServiceSettingsResponse"},
"errors":[
{"shape":"InternalServerException"},
{"shape":"ThrottlingException"},
{"shape":"ValidationException"}
],
"documentation":" Lists the Linux subscriptions service settings for your account. ",
"idempotent":true
},
"ListLinuxSubscriptionInstances":{
"name":"ListLinuxSubscriptionInstances",
"http":{
"method":"POST",
"requestUri":"/subscription/ListLinuxSubscriptionInstances",
"responseCode":200
},
"input":{"shape":"ListLinuxSubscriptionInstancesRequest"},
"output":{"shape":"ListLinuxSubscriptionInstancesResponse"},
"errors":[
{"shape":"InternalServerException"},
{"shape":"ThrottlingException"},
{"shape":"ValidationException"}
],
"documentation":" Lists the running Amazon EC2 instances that were discovered with commercial Linux

subscriptions. ",
    "idempotent":true
  },
  "ListLinuxSubscriptions":{
    "name":"ListLinuxSubscriptions",
    "http":{
      "method":"POST",
      "requestUri":"/subscription/ListLinuxSubscriptions",
      "responseCode":200
    },
    "input":{"shape":"ListLinuxSubscriptionsRequest"},
    "output":{"shape":"ListLinuxSubscriptionsResponse"},
    "errors":[
      {"shape":"InternalServerException"},
      {"shape":"ThrottlingException"},
      {"shape":"ValidationException"}
    ],
    "documentation":" Lists the Linux subscriptions that have been discovered. If you have linked your organization, the returned results will include data aggregated across your accounts in Organizations. ",
    "idempotent":true
  },
  "ListRegisteredSubscriptionProviders":{
    "name":"ListRegisteredSubscriptionProviders",
    "http":{
      "method":"POST",
      "requestUri":"/subscription/ListRegisteredSubscriptionProviders",
      "responseCode":200
    },
    "input":{"shape":"ListRegisteredSubscriptionProvidersRequest"},
    "output":{"shape":"ListRegisteredSubscriptionProvidersResponse"},
    "errors":[
      {"shape":"InternalServerException"},
      {"shape":"ThrottlingException"},
      {"shape":"ValidationException"}
    ],
    "documentation":" List Bring Your Own License (BYOL) subscription registration resources for your account. ",
    "idempotent":true
  },
  "ListTagsForResource":{
    "name":"ListTagsForResource",
    "http":{
      "method":"GET",
      "requestUri":"/tags/{resourceArn}",
      "responseCode":200
    },
    "input":{"shape":"ListTagsForResourceRequest"},
    "output":{"shape":"ListTagsForResourceResponse"},

"errors":[

{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"ValidationException"}
],
"documentation":" List the metadata tags that are assigned to the specified Amazon Web Services resource. "
},
"RegisterSubscriptionProvider":{
"name":"RegisterSubscriptionProvider",
"http":{
"method":"POST",
"requestUri":"/subscription/RegisterSubscriptionProvider",
"responseCode":200
},
"input":{"shape":"RegisterSubscriptionProviderRequest"},
"output":{"shape":"RegisterSubscriptionProviderResponse"},
"errors":[
{"shape":"InternalServerException"},
{"shape":"ThrottlingException"},
{"shape":"ValidationException"}
],
"documentation":" Register the supported third-party subscription provider for your Bring Your Own License (BYOL) subscription. ",
"idempotent":true
},
"TagResource":{
"name":"TagResource",
"http":{
"method":"PUT",
"requestUri":"/tags/{resourceArn}",
"responseCode":200
},
"input":{"shape":"TagResourceRequest"},
"output":{"shape":"TagResourceResponse"},
"errors":[
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"ValidationException"}
],
"documentation":" Add metadata tags to the specified Amazon Web Services resource. ",
"idempotent":true
},
"UntagResource":{
"name":"UntagResource",
"http":{
"method":"DELETE",

"requestUri":"/tags/{resourceArn}",
"responseCode":200
},
"input":{"shape":"UntagResourceRequest"},
"output":{"shape":"UntagResourceResponse"},
"errors":[
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"}
],
"documentation":" Remove one or more metadata tag from the specified Amazon Web Services resource. ",
"idempotent":true
},
"UpdateServiceSettings":{
"name":"UpdateServiceSettings",
"http":{
"method":"POST",
"requestUri":"/subscription/UpdateServiceSettings",
"responseCode":200
},
"input":{"shape":"UpdateServiceSettingsRequest"},
"output":{"shape":"UpdateServiceSettingsResponse"},
"errors":[
{"shape":"InternalServerException"},
{"shape":"ThrottlingException"},
{"shape":"ValidationException"}
],
"documentation":" Updates the service settings for Linux subscriptions. ",
"idempotent":true
}
},
"shapes":{
"Boolean":{
"type":"boolean",
"box":true
},
"BoxInteger":{
"type":"integer",
"box":true
},
"BoxLong":{
"type":"long",
"box":true
},
"DeregisterSubscriptionProviderRequest":{
"type":"structure",
"required":["SubscriptionProviderArn"],
"members":{

"SubscriptionProviderArn":{
"shape":"SubscriptionProviderArn",
"documentation":" The Amazon Resource Name (ARN) of the subscription provider resource to deregister. "
}
}
},
"DeregisterSubscriptionProviderResponse":{
"type":"structure",
"members":{
}
},
"Filter":{
"type":"structure",
"members":{
"Name":{
"shape":"String",
"documentation":" The type of name to filter by. "
},
"Operator":{
"shape":"Operator",
"documentation":" An operator for filtering results. "
},
"Values":{
"shape":"StringList",
"documentation":" One or more values for the name to filter by. "
}
},
"documentation":" A filter object that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria. "
},
"FilterList":{
"type":"list",
"member":{"shape":"Filter"}
},
"GetRegisteredSubscriptionProviderRequest":{
"type":"structure",
"required":["SubscriptionProviderArn"],
"members":{
"SubscriptionProviderArn":{
"shape":"SubscriptionProviderArn",
"documentation":" The Amazon Resource Name (ARN) of the BYOL registration resource to get details for. "
}
}
},
"GetRegisteredSubscriptionProviderResponse":{
"type":"structure",

"members":{
"LastSuccessfulDataRetrievalTime":{
"shape":"String",
"documentation":" The timestamp from the last time License Manager retrieved subscription details from your registered third-party Linux subscription provider. "
},
"SecretArn":{
"shape":"SecretArn",
"documentation":" The Amazon Resource Name (ARN) of the third-party access secret stored in Secrets Manager for the BYOL registration resource specified in the request. "
},

"SubscriptionProviderArn":{
"shape":"SubscriptionProviderArn",
"documentation":" The Amazon Resource Name (ARN) for the BYOL registration resource specified in the request. "
},
"SubscriptionProviderSource":{
"shape":"SubscriptionProviderSource",
"documentation":" The subscription provider for the BYOL registration resource specified in the request. "
},
"SubscriptionProviderStatus":{
"shape":"SubscriptionProviderStatus",
"documentation":" The status of the Linux subscription provider access token from the last successful subscription data request. "
},
"SubscriptionProviderStatusMessage":{
"shape":"String",
"documentation":" The detailed message from your subscription provider token status. "
}
}
},
"GetServiceSettingsRequest":{
"type":"structure",
"members":{
}
},
"GetServiceSettingsResponse":{
"type":"structure",
"members":{
"HomeRegions":{
"shape":"StringList",
"documentation":" The Region in which License Manager displays the aggregated data for Linux subscriptions. "
},
"LinuxSubscriptionsDiscovery":{
"shape":"LinuxSubscriptionsDiscovery",

"documentation":" Lists if discovery has been enabled for Linux subscriptions. "
},
"LinuxSubscriptionsDiscoverySettings":{
"shape":"LinuxSubscriptionsDiscoverySettings",
"documentation":" Lists the settings defined for Linux subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data will be aggregated from. "
},
"Status":{
"shape":"Status",
"documentation":" Indicates the status of Linux subscriptions settings being applied. "
},
"StatusMessage":{
"shape":"StringMap",
"documentation":" A message which details the Linux subscriptions service settings current status. "
}
}
},
"Instance":{
"type":"structure",
"members":{
"AccountID":{
"shape":"String",
"documentation":" The account ID which owns the instance. "
},
"AmiId":{
"shape":"String",
"documentation":" The AMI ID used to launch the instance. "
},
"DualSubscription":{
"shape":"String",
"documentation":" Indicates that you have two different license subscriptions for the same software on your instance. "
},
"InstanceID":{
"shape":"String",
"documentation":" The instance ID of the resource. "
},
"InstanceType":{
"shape":"String",
"documentation":" The instance type of the resource. "
},
"LastUpdatedTime":{
"shape":"String",
"documentation":" The time in which the last discovery updated the instance details. "
},
"OsVersion":{

"shape":"String",
"documentation":" The operating system software version that runs on your instance. "
},
"ProductCode":{
"shape":"ProductCodeList",
"documentation":" The product code for the instance. For more information, see Usage operation values in the License Manager User Guide . "
},
"Region":{
"shape":"String",
"documentation":" The Region the instance is running in. "
},
"RegisteredWithSubscriptionProvider":{
"shape":"String",
"documentation":" Indicates that your instance uses a BYOL license subscription from a third-party Linux subscription provider that you've registered with License Manager. "
},
"Status":{
"shape":"String",
"documentation":" The status of the instance. "
},
"SubscriptionName":{
"shape":"String",
"documentation":" The name of the license subscription that the instance uses. "
},
"SubscriptionProviderCreateTime":{
"shape":"String",
"documentation":" The timestamp when you registered the third-party Linux subscription provider for the subscription that the instance uses. "
},
"SubscriptionProviderUpdateTime":{
"shape":"String",
"documentation":" The timestamp from the last time that the instance synced with the registered third-party Linux subscription provider. "
},
"UsageOperation":{
"shape":"String",
"documentation":" The usage operation of the instance. For more information, see For more information, see Usage
operation values in the License Manager User Guide. "
}
},
"documentation":" Details discovered information about a running instance using Linux subscriptions. "
},
"InstanceList":{
"type":"list",

"member":{"shape":"Instance"}
},
"InternalServerException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
},
"documentation":" An exception occurred with the service. ",
"exception":true,
"fault":true
},
"LinuxSubscriptionsDiscovery":{
"type":"string",
"enum":[
"Enabled",
"Disabled"
]
},
"LinuxSubscriptionsDiscoverySettings":{
"type":"structure",
"required":[
"OrganizationIntegration",
"SourceRegions"
],
"members":{
"OrganizationIntegration":{
"shape":"OrganizationIntegration",
"documentation":" Details
if you have enabled resource discovery across your accounts in Organizations. "
},
"SourceRegions":{
"shape":"StringList",
"documentation":" The Regions in which to discover data for Linux subscriptions. "
}
},
"documentation":" Lists the settings defined for discovering Linux subscriptions. "
},
"ListLinuxSubscriptionInstancesRequest":{
"type":"structure",
"members":{
"Filters":{
"shape":"FilterList",
"documentation":" An array of structures that you can use to filter the results by your specified criteria. For example, you can specify <code>Region</code> in the <code>Name</code>, with the <code>contains</code> operator to list all subscriptions that match a partial string in the <code>Value</code>, such as <code>us-west</code>. For each filter, you can specify one of the following values for the <code>Name</code> key to streamline results:

  <code>AccountID</code>   <code>AmiID</code>   <code>DualSubscription</code>   <code>InstanceID</code>   <code>InstanceType</code>   <code>ProductCode</code>   <code>Region</code>   <code>Status</code>   <code>UsageOperation</code>   For each filter, you can use one of the following <code>Operator</code> values to define the behavior of the filter: <ul> <code>contains</code>   <code>equals</code>   <code>Notequal</code> "
      },
      "MaxResults":{
        "shape":"BoxInteger",
        "documentation":" The maximum items to return in a request. "
      },
      "NextToken":{
        "shape":"ListLinuxSubscriptionInstancesRequestNextTokenString",
        "documentation":" A token to specify where to start paginating.
 This is the nextToken from a previously truncated response. "
      }
    },
    "documentation":" NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in request increases. "
  },
  "ListLinuxSubscriptionInstancesRequestNextTokenString":{
    "type":"string",
    "max":16384,
    "min":1
  },
  "ListLinuxSubscriptionInstancesResponse":{
    "type":"structure",
    "members":{
      "Instances":{
        "shape":"InstanceList",
        "documentation":" An array that contains instance objects. "
      },
      "NextToken":{
        "shape":"String",
        "documentation":" The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. "
      }
    }
  },
  "ListLinuxSubscriptionsRequest":{
    "type":"structure",
    "members":{
      "Filters":{
        "shape":"FilterList",
        "documentation":" An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify. For example, you can filter by the name of

<code>Subscription</code> with an optional operator to see subscriptions that match, partially match, or don't match a certain subscription's name. The valid names for this filter are: <ul> <code>Subscription</code>   The valid Operators for this filter are: <ul> <code>contains</code>   <code>equals</code>   <code>Notequal</code> "
      },
      "MaxResults":{
        "shape":"BoxInteger",
        "documentation":" The maximum items to return in a request. "
      },
      "NextToken":{
        "shape":"ListLinuxSubscriptionsRequestNextTokenString",
        "documentation":" A token to specify where
 to start paginating. This is the nextToken from a previously truncated response. "
      }
    },
    "documentation":" NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in request increases. "
  },
  "ListLinuxSubscriptionsRequestNextTokenString":{
    "type":"string",
    "max":16384,
    "min":1
  },
  "ListLinuxSubscriptionsResponse":{
    "type":"structure",
    "members":{
      "NextToken":{
        "shape":"String",
        "documentation":" The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. "
      },
      "Subscriptions":{
        "shape":"SubscriptionList",
        "documentation":" An array that contains subscription objects. "
      }
    }
  },
  "ListRegisteredSubscriptionProvidersRequest":{
    "type":"structure",
    "members":{
      "MaxResults":{
        "shape":"ListRegisteredSubscriptionProvidersRequestMaxResultsInteger",
        "documentation":" The maximum items to return in a request. "
      },
      "NextToken":{
        "shape":"String",

"documentation":" A token to specify where to start paginating. This is the nextToken from a previously truncated response. "
},
"SubscriptionProviderSources":{
"shape":"SubscriptionProviderSourceList",
"documentation":" To filter your results, specify which subscription providers to return in the list. "
}
}
},
"ListRegisteredSubscriptionProvidersRequestMaxResultsInteger":{
"type":"integer",
"box":true,
"max":100,
"min":1
},
"ListRegisteredSubscriptionProvidersResponse":{
"type":"structure",
"members":{
"NextToken":{
"shape":"String",
"documentation":" The next token
used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. "
},
"RegisteredSubscriptionProviders":{
"shape":"RegisteredSubscriptionProviderList",
"documentation":" The list of BYOL registration resources that fit the criteria you specified in the request. "
}
}
},
"ListTagsForResourceRequest":{
"type":"structure",
"required":["resourceArn"],
"members":{
"resourceArn":{
"shape":"SubscriptionProviderArn",
"documentation":" The Amazon Resource Name (ARN) of the resource for which to list metadata tags. ",
"location":"uri",
"locationName":"resourceArn"
}
}
},
"ListTagsForResourceResponse":{
"type":"structure",
"members":{
"tags":{

"shape":"Tags",

"documentation":" The metadata tags for the requested resource. "
}
}
},
"Operator":{
"type":"string",
"enum":[
"Equal",
"NotEqual",
"Contains"
],
"max":20,
"min":1
},
"OrganizationIntegration":{
"type":"string",
"enum":[
"Enabled",
"Disabled"
]
},
"ProductCodeList":{
"type":"list",
"member":{"shape":"String"}
},
"RegisterSubscriptionProviderRequest":{
"type":"structure",
"required":[
"SecretArn",
"SubscriptionProviderSource"
],
"members":{
"SecretArn":{
"shape":"SecretArn",
"documentation":" The Amazon Resource Name (ARN) of the secret where you've stored your subscription provider's access token. For RHEL subscriptions managed through the Red Hat Subscription Manager (RHSM), the secret contains your Red Hat Offline token. "
},
"SubscriptionProviderSource":{
"shape":"SubscriptionProviderSource",
"documentation":" The supported Linux subscription provider to register. "
},
"Tags":{
"shape":"Tags",
"documentation":" The metadata tags to assign to your registered Linux subscription provider resource. "

```
      }
    }
  },
  "RegisterSubscriptionProviderResponse":{
    "type":"structure",
    "members":{
      "SubscriptionProviderArn":{
        "shape":"String",
        "documentation":"<p>The Amazon Resource Name (ARN) of the Linux subscription provider resource that
you registered.</p>"
      },
      "SubscriptionProviderSource":{
        "shape":"SubscriptionProviderSource",
        "documentation":"<p>The Linux subscription provider that you registered.</p>"
      },
      "SubscriptionProviderStatus":{
        "shape":"SubscriptionProviderStatus",
        "documentation":"<p>Indicates the status of the registration action for
 the Linux subscription provider that you requested.</p>"
      }
    }
  },
  "RegisteredSubscriptionProvider":{
    "type":"structure",
    "members":{
      "LastSuccessfulDataRetrievalTime":{
        "shape":"String",
        "documentation":"<p>The timestamp from the last time that License Manager accessed third-party
subscription data for your account from your registered Linux subscription provider.</p>"
      },
      "SecretArn":{
        "shape":"SecretArn",
        "documentation":"<p>The Amazon Resource Name (ARN) of the Secrets Manager secret that stores your
registered Linux subscription provider access token. For RHEL account subscriptions, this is the offline token.</p>"
      },
      "SubscriptionProviderArn":{
        "shape":"SubscriptionProviderArn",
        "documentation":"<p>The Amazon Resource Name (ARN) of the Linux subscription provider resource that
you registered.</p>"
      },
      "SubscriptionProviderSource":{

    "shape":"SubscriptionProviderSource",
        "documentation":"<p>A supported third-party Linux subscription provider. License Manager currently
supports Red Hat subscriptions.</p>"
      },
      "SubscriptionProviderStatus":{
        "shape":"SubscriptionProviderStatus",
```

"documentation":" Indicates the status of your registered Linux subscription provider access token from the last time License Manager retrieved subscription data. For RHEL account subscriptions, this is the status of the offline token. "
},
"SubscriptionProviderStatusMessage":{
"shape":"String",
"documentation":" A detailed message that's associated with your BYOL subscription provider token status. "
}
},
"documentation":" A third-party provider for operating system (OS) platform software and license subscriptions, such as Red Hat. When you register a third-party Linux subscription provider, License Manager can get subscription
data from the registered provider. "
},
"RegisteredSubscriptionProviderList":{
"type":"list",
"member":{"shape":"RegisteredSubscriptionProvider"}
},
"ResourceNotFoundException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
},
"documentation":" Unable to find the requested Amazon Web Services resource. ",
"exception":true
},
"SecretArn":{
"type":"string",
"pattern":"^arn:[a-z0-9-\\.]{1,63}:secretsmanager:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:secret:[^/]{1,1023}$"
},
"Status":{
"type":"string",
"enum":[
"InProgress",
"Completed",
"Successful",
"Failed"
]
},
"String":{"type":"string"},
"StringList":{
"type":"list",
"member":{"shape":"StringListMemberString"},
"max":100,
"min":1
},
"StringListMemberString":{

"type":"string",
"max":100,
"min":1
},
"StringMap":{
"type":"map",
"key":{"shape":"String"},
"value":{"shape":"String"}
},
"Subscription":{
"type":"structure",
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"InstanceCount":{
"shape":"BoxLong",
"documentation":" The total amount of running instances using this subscription. "
},
"Name":{
"shape":"String",
"documentation":" The name of the subscription. "
},
"Type":{
"shape":"String",
"documentation":" The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS. "
}
},
"documentation":" An object which details a discovered Linux subscription. "
},
"SubscriptionList":{
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"member":{"shape":"Subscription"}
},
"SubscriptionProviderArn":{
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},
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"enum":["RedHat"]
},
"SubscriptionProviderSourceList":{
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},
"SubscriptionProviderStatus":{

"type":"string",
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"INVALID",
"PENDING"
]
},
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},
"TagResourceRequest":{
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"tags"
],
"members":{
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"shape":"SubscriptionProviderArn",
"documentation":" The Amazon Resource Name (ARN) of the Amazon Web Services resource to which to add the specified metadata tags. ",
"location":"uri",
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},
"tags":{
"shape":"Tags",
"documentation":" The metadata tags to assign to the Amazon Web Services resource. Tags are formatted as key value pairs. "
}
}
},
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"members":{
}
},
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"documentation":" The request was denied due to request throttling. ",
"exception":true
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"UntagResourceRequest":{
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"required":[
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"tagKeys"
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"members":{
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"shape":"SubscriptionProviderArn",
"documentation":" The Amazon Resource Name (ARN) of the Amazon Web Services resource to remove the metadata tags from. ",
"location":"uri",
"locationName":"resourceArn"
},
"tagKeys":{
"shape":"TagKeyList",
"documentation":" A list of metadata tag keys to remove from the requested resource. ",
"location":"querystring",
"locationName":"tagKeys"
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}
},
"UntagResourceResponse":{
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"members":{
}
},
"UpdateServiceSettingsRequest":{
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"required":[
"LinuxSubscriptionsDiscovery",
"LinuxSubscriptionsDiscoverySettings"
],
"members":{
"AllowUpdate":{
"shape":"Boolean",
"documentation":" Describes if updates are allowed to the service settings for Linux subscriptions. If you allow updates, you can aggregate
Linux subscription data in more than one home Region. "
},

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"shape":"LinuxSubscriptionsDiscovery",
"documentation":" Describes if the discovery of Linux subscriptions is enabled. "
},
"LinuxSubscriptionsDiscoverySettings":{
"shape":"LinuxSubscriptionsDiscoverySettings",
"documentation":" The settings defined for Linux subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data will be aggregated from. "
}
}
},
"UpdateServiceSettingsResponse":{
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"HomeRegions":{
"shape":"StringList",
"documentation":" The Region in which License Manager displays the aggregated data for Linux subscriptions. "
},
"LinuxSubscriptionsDiscovery":{
"shape":"LinuxSubscriptionsDiscovery",
"documentation":" Lists
if discovery has been enabled for Linux subscriptions. "
},
"LinuxSubscriptionsDiscoverySettings":{
"shape":"LinuxSubscriptionsDiscoverySettings",
"documentation":" The settings defined for Linux subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data will be aggregated from. "
},
"Status":{
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"documentation":" Indicates the status of Linux subscriptions settings being applied. "
},
"StatusMessage":{
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}
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"ValidationException":{
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"documentation":" The provided input is not valid. Try your request again. ",
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},
"documentation":" With License Manager, you can discover and track your commercial Linux subscriptions on running Amazon EC2 instances. "
}
{
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{
"version": "1.0",
"examples": {
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```
{
 "pagination": {
   "ListIdentityProviders": {
     "input_token": "NextToken",
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   },
   "ListProductSubscriptions": {
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     "result_key": "ProductUserSummaries"
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"result_key": "InstanceUserSummaries"
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"input_token": "NextToken",
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"result_key": "LicenseServerEndpoints"
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}

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  "version": "1.0",
  "parameters": {
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      "required": false,
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                                        ]
                                    }
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},
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]
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},
{
"conditions": [
{
"fn": "booleanEquals",

"argv": [
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"ref": "UseFIPS"
},
true
]
}

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                    "conditions": [
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          "type": "error"
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          "type": "String"
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          "type": "Boolean"
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        }
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1.5497 s3transfer 0.11.5

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1.5499 qemu-utils 6.2+dfsg-2ubuntu6.26

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{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_file, "__acl_aclcheck_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_link, "__acl_aclcheck_link", "%s(\"%s\", %d, %#x)", NULL, NULL
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{ TARGET_FREEBSD_NR___semctl, "__semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___sysctl,
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{ TARGET_FREEBSD_NR__umtx_op, "_umtx_op", "%s(%#x, %d, %d, %#x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d,%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept4, "accept4", "%s(%d,%d,%#x,%#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bindat, "bindat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_enter, "cap_enter", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_fcntls_get, "cap_fcntls_get", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_fcntls_limit, "cap_fcntls_limit", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_cap_rights_limit, "cap_rights_limit", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_chmod, "chmod", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_close, "close", "%s(%d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_connectat, "connectat", "%s(%d,%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_cpuset_getdomain, "cpuset_getdomain", NULL, NULL,
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{ TARGET_FREEBSD_NR_cpuset_setdomain, "cpuset_setdomain", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s(\"%s\",%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s(\"%s\", %d, \"%s\", %d, \"%s\"", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
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},
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{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d, %d, %#x, %d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_fchmod, "fchmod", "%s(%d,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fcntl, "fcntl",
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{ TARGET_FREEBSD_NR_fdatasync, "fdatasync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_fhopen, "fhopen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstat, "fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fhstat, "freebsd11_fhstat", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL },
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{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%s(%d,%#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_futimes, "futimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR_freebsd11_getdirentries, "freebsd11_getdirentries", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_getlogin, "getlogin", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_getpgid, "getpgid", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_getpid, "getpid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getppid, "getppid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(%#x,%#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen, "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_lstat,
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{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_minherit, "minherit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknodat, "mknodat", "%s(%d, \"%s\",%#o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_mknod, "freebsd11_mknod", "%s(\"%s\",%#o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_mknodat, "freebsd11_mknodat", "%s(%d, \"%s\",%#o,%#x)", NULL,
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{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
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{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_stat, "freebsd11_stat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_statfs, "freebsd11_statfs", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink",
 "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, print_sysarch, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_create, "timer_create" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_delete, "timer_delete" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_settime, "timer_settime" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_gettime, "timer_gettime" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_getoverrun, "timer_getoverrun" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)",
 NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimensat, "utimensat", "%s(%d,%s,%p,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait6, "wait6", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_posix_openpt, "posix_openpt", "%s(%d)", NULL,
 NULL },
```

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==========

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Key Dates
---
* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0 to Version 1.1 to cover open source documentation associated with the TianoCore project.

Version 1.0 covers source code files. Version 1.1 is a backwards compatible extension that adds support for document files in both source form and compiled form.

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https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html

TianoCore Bugzilla:
https://bugzilla.tianocore.org/show_bug.cgi?id=629

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= Code Contributions =

==========

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use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature,
and "Contributed-under" message.
3. Your "Contributed-under" message
explicitly states that the
contribution is made under the terms of the specified
contribution agreement. Your "Contributed-under" message
must include the name of contribution agreement and version.
For example: Contributed-under: TianoCore Contribution Agreement 1.1
The "TianoCore Contribution Agreement" is included below in
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4. Submit your code to the TianoCore project using the process
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==========
= Change Description / Commit Message / Patch Email =
==========

Your change description should use the standard format for a
commit message, and must include your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

```
=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch
PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [Repository/Branch PATCH]. The remaining portion of the
  commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "Repository" is the identifier of the repository the patch applies.
  This identifier should only be provided for repositories other than
  'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is
the identifier of the branch the patch applies. This
  identifier should only be provided for branches other than 'edk2/master'.
  For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or
  'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For
  example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or
  'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
  the change.  Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is
  made under the terms of the contribution agreement. This
  agreement is included below in this document.
* "Signed-off-by" is the contributor's signature identifying them
  by their real/legal name and their email address.
```

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  =======================
  = Code Contributions =
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  2. Your commit message must include your "Signed-off-by" signature,
     and "Contributed-under" message.
  3. Your "Contributed-under" message explicitly states that the
     contribution is made under the terms of the specified
     contribution agreement.  Your "Contributed-under" message
     must include the name of contribution
agreement and version.
     For example: Contributed-under: TianoCore Contribution Agreement 1.0
     The "TianoCore Contribution Agreement" is included below in
     this document.
  4. Submit your code to the TianoCore project using the process
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  ======================================================
  = Change Description / Commit Message / Patch Email =
```

```
=====================================================

Your change description should use the standard format for a
commit message, and must include your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or
attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [PATCH]. The remaining portion of the commit message
  is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short idenfier for the affected code.  For
  example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
  the change.  Each line should be less than ~70 characters.
* "Contributed-under" explicitely states that the contribution is
  made under the terms of the contribtion agreement.  This
  agreement is included below in this document.
* "Signed-off-by" is the
contributor's signature identifying them
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John R. Hauser
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// DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
// SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
// CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
// OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
// OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Index: debug.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c 7 Sep 2007 10:01:21 -0000 1.1
+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3
@@ -52,7 +52,11 @@
void X86EMU_trace_regs (void)
{
   if (DEBUG_TRACE()) {
-       x86emu_dump_regs();
+ if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+        x86emu_dump_xregs();
+ } else {
+        x86emu_dump_regs();
+ }
   }
   if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
      printk("%04x:%04x ",M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
   for (i=0; i< M.x86.enc_pos; i++) {
      sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
   }
-   printk("%-20s",buf1);
+    printk("%-20s ",buf1);
}

static void print_decoded_instruction (void)
Index: ops2.c
===================================================================
RCS file:
 /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops2.c 20 Mar 2008 15:48:34 -0000 1.3
@@ -149,8 +149,69 @@
   target += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", target);
   TRACE_AND_STEP();
```

```
-    if (cond)
+    if (cond) {
       M.x86.R_IP = (u16)target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+    }
+    DECODE_CLEAR_SEGOVR();
+    END_OF_INSTR();
+}
+
+/*****************************************************************************
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+*****************************************************************************/
+s32 x86emu_bswap(s32 reg)
+{
+   // perform the byte swap
+   s32 temp = reg;
+   reg = (temp & 0xFF000000) >> 24;
+   reg |= (temp & 0xFF0000) >> 8;
+   reg |= (temp & 0xFF00) << 8;
+   reg |= (temp & 0xFF) << 24;
+   return reg;
+}
+
+void x86emuOp2_bswap(u8 op2)
+{
+
   /* byte swap 32 bit register */
+    START_OF_INSTR();
+    DECODE_PRINTF("BSWAP\t");
+    switch (op2) {
+      case 0xc8:
+        DECODE_PRINTF("EAX\n");
+        M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+        break;
+      case 0xc9:
+        DECODE_PRINTF("ECX\n");
+        M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
+        break;
+      case 0xca:
+        DECODE_PRINTF("EDX\n");
+        M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+        break;
+      case 0xcb:
+        DECODE_PRINTF("EBX\n");
+        M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+        break;
+      case 0xcc:
```

```
+       DECODE_PRINTF("ESP\n");
+       M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+       break;
+      case 0xcd:
+       DECODE_PRINTF("EBP\n");
+       M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+       break;
+      case 0xce:
+       DECODE_PRINTF("ESI\n");
+       M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
+       break;
+      case 0xcf:
+       DECODE_PRINTF("EDI\n");
+       M.x86.R_EDI
 = x86emu_bswap(M.x86.R_EDI);
+       break;
+    }
+    TRACE_AND_STEP();
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -1702,14 +1763,14 @@
/*  0xc5 */ x86emuOp2_illegal_op,
/*  0xc6 */ x86emuOp2_illegal_op,
/*  0xc7 */ x86emuOp2_illegal_op,
-/*  0xc8 */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xc9 */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xca */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcb */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcc */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcd */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xce */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcf */ x86emuOp2_illegal_op,  /* TODO: bswap */
+/*  0xc8 */ x86emuOp2_bswap,
+/*  0xc9 */ x86emuOp2_bswap,
+/*  0xca */ x86emuOp2_bswap,
+/*  0xcb */ x86emuOp2_bswap,
+/*  0xcc */ x86emuOp2_bswap,
+/*  0xcd */ x86emuOp2_bswap,
+/*  0xce */ x86emuOp2_bswap,
+/*  0xcf */ x86emuOp2_bswap,

/*  0xd0 */ x86emuOp2_illegal_op,
/*  0xd1 */ x86emuOp2_illegal_op,
Index:
 ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
```

```
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops.c 20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
   imm = (s8)fetch_byte_imm();
   DECODE_PRINTF2("PUSH\t%d\n", imm);
   TRACE_AND_STEP();
-   push_word(imm);
+   if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+       push_long(imm);
+   } else {
+       push_word(imm);
+   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@
   target = (u16)(M.x86.R_IP + (s16)offset);
   DECODE_PRINTF2("%x\n", target);
   TRACE_AND_STEP();
-   if (cond)
+   if (cond) {
       M.x86.R_IP = target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
   count = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE))
 {
       /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
       M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX = 0;
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   }
   while (count--) {
@@ -2526,6 +2534,8 @@
       store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
       M.x86.R_SI += inc;
       M.x86.R_DI += inc;
```

```
+       if (M.x86.intr & INTR_HALTED)
+           break;
   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -2559,9 +2569,11 @@
   count = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
       /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode
 & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
       M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX = 0;
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   }
   while (count--) {
@@ -2574,6 +2586,8 @@
       }
       M.x86.R_SI += inc;
       M.x86.R_DI += inc;
+       if (M.x86.intr & INTR_HALTED)
+           break;
   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -2598,16 +2612,21 @@

   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
       /* REPE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
           val1 = fetch_data_byte(M.x86.R_SI);
           val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
                  cmp_byte(val1, val2);
-           M.x86.R_CX -= 1;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+
             M.x86.R_ECX -= 1;
+           else
+               M.x86.R_CX -= 1;
           M.x86.R_SI += inc;
           M.x86.R_DI += inc;
```

```
          if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
          if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+           if (M.x86.intr & INTR_HALTED)
+               break;
       }
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   } else {
@@ -2644,8 +2663,8 @@
   TRACE_AND_STEP();
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
       /* REPE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          if (M.x86.mode & SYSMODE_PREFIX_DATA) {
              val1 = fetch_data_long(M.x86.R_SI);
              val2 = fetch_data_long_abs(M.x86.R_ES,
 M.x86.R_DI);
@@ -2655,11 +2674,16 @@
              val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
              cmp_word((u16)val1, (u16)val2);
          }
-          M.x86.R_CX -= 1;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+               M.x86.R_ECX -= 1;
+           else
+               M.x86.R_CX -= 1;
          M.x86.R_SI += inc;
          M.x86.R_DI += inc;
          if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
          if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+           if (M.x86.intr & INTR_HALTED)
+               break;
       }
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   } else {
@@ -2741,11 +2765,16 @@
   TRACE_AND_STEP();
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
       /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /*
 move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
-          M.x86.R_CX -= 1;
```

```
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+               M.x86.R_ECX -= 1;
+           else
+               M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
+           if (M.x86.intr & INTR_HALTED)
+               break;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
@@ -2783,9 +2812,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX = 0;

     M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2795,6 +2826,8 @@
            store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
        }
        M.x86.R_DI += inc;
+       if (M.x86.intr & INTR_HALTED)
+           break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2817,11 +2850,16 @@
        inc = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
-           M.x86.R_CX -= 1;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+               M.x86.R_ECX -= 1;
+           else
+               M.x86.R_CX -= 1;
```

```
          M.x86.R_SI += inc;
+           if (M.x86.intr & INTR_HALTED)
+
              break;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
@@ -2859,9 +2897,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2871,6 +2911,8 @@
          M.x86.R_AX = fetch_data_word(M.x86.R_SI);
        }
        M.x86.R_SI += inc;
+       if (M.x86.intr & INTR_HALTED)
+           break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2894,26 +2936,36 @@
        inc = 1;
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /*
 REPE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
          cmp_byte(M.x86.R_AL, val2);
-          M.x86.R_CX -= 1;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+               M.x86.R_ECX -= 1;
+           else
+               M.x86.R_CX -= 1;
          M.x86.R_DI += inc;
          if (ACCESS_FLAG(F_ZF) == 0)
```

```
            break;
+           if (M.x86.intr & INTR_HALTED)
+               break;
        }
        M.x86.mode &= ~SYSMODE_PREFIX_REPE;
    } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
        /* REPNE  */
-        /* move them until CX is ZERO. */
-        while (M.x86.R_CX != 0) {
+        /* move them until (E)CX is ZERO. */
+        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {

          val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
          cmp_byte(M.x86.R_AL, val2);
-           M.x86.R_CX -= 1;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+               M.x86.R_ECX -= 1;
+           else
+               M.x86.R_CX -= 1;
          M.x86.R_DI += inc;
          if (ACCESS_FLAG(F_ZF))
              break;          /* zero flag set means equal */
+           if (M.x86.intr & INTR_HALTED)
+               break;
        }
        M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
    } else {
@@ -2951,8 +3003,8 @@
    TRACE_AND_STEP();
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /* REPE  */
-        /* move them until CX is ZERO. */
-        while (M.x86.R_CX != 0) {
+        /* move them until (E)CX is ZERO. */
+        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          if (M.x86.mode & SYSMODE_PREFIX_DATA) {
              val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
              cmp_long(M.x86.R_EAX,
 val);
@@ -2960,16 +3012,21 @@
              val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
              cmp_word(M.x86.R_AX, (u16)val);
          }
-           M.x86.R_CX -= 1;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+               M.x86.R_ECX -= 1;
+           else
+               M.x86.R_CX -= 1;
```

```
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF) == 0)
                break;
+             if (M.x86.intr & INTR_HALTED)
+                 break;
        }
        M.x86.mode &= ~SYSMODE_PREFIX_REPE;
    } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
        /* REPNE  */
-        /* move them until CX is ZERO. */
-        while (M.x86.R_CX != 0) {
+        /* move them until (E)CX is ZERO. */
+        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            if (M.x86.mode & SYSMODE_PREFIX_DATA) {
                val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_long(M.x86.R_EAX,
 val);
@@ -2977,10 +3034,15 @@
                val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_word(M.x86.R_AX, (u16)val);
            }
-            M.x86.R_CX -= 1;
+             if (M.x86.mode & SYSMODE_32BIT_REP)
+                 M.x86.R_ECX -= 1;
+             else
+                 M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF))
                break;          /* zero flag set means equal */
+             if (M.x86.intr & INTR_HALTED)
+                 break;
        }
        M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
    } else {
@@ -3238,9 +3300,9 @@
    DECODE_PRINTF("RET\t");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
 TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -3254,9 +3316,9
 @@
{
```

```
   START_OF_INSTR();
   DECODE_PRINTF("RET\n");
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
 TRACE_AND_STEP();
   M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -3471,10 +3533,10 @@
   DECODE_PRINTF("RETF\t");
   imm = fetch_word_imm();
   DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
 TRACE_AND_STEP();
   M.x86.R_IP = pop_word();
   M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
   M.x86.R_SP += imm;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
   START_OF_INSTR();
   DECODE_PRINTF("RETF\n");
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
 TRACE_AND_STEP();
   M.x86.R_IP = pop_word();
   M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
   DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
   ip += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
   TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF))      /* CX != 0 and !ZF */
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.R_ECX -= 1;
+   else
+       M.x86.R_CX -= 1;
+   if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
!ACCESS_FLAG(F_ZF))      /* (E)CX != 0 and !ZF */
       M.x86.R_IP = ip;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
```

```
@@ -4041,8 +4106,11 @@
   ip += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
   TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF))       /* CX != 0 and ZF */
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.R_ECX -= 1;
+   else
+       M.x86.R_CX -= 1;
+   if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
ACCESS_FLAG(F_ZF))      /* (E)CX != 0 and ZF */
       M.x86.R_IP = ip;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -4062,8 +4130,11 @@
   ip += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
   TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0)
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.R_ECX -= 1;
+   else
+       M.x86.R_CX -= 1;
+   if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0)      /* (E)CX != 0 */
      M.x86.R_IP = ip;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -4085,8 +4156,10 @@
   target = (u16)(M.x86.R_IP + offset);
   DECODE_PRINTF2("%x\n", target);
   TRACE_AND_STEP();
-   if (M.x86.R_CX == 0)
+   if (M.x86.R_CX == 0) {
      M.x86.R_IP = target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -4213,6 +4286,7 @@
   ip = (s16)fetch_word_imm();
   ip += (s16)M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
+   JMP_TRACE(M.x86.saved_cs,
 M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
   TRACE_AND_STEP();
```

```
   M.x86.R_IP = (u16)ip;
   DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
   cs = fetch_word_imm();
   DECODE_PRINTF2("%04x:", cs);
   DECODE_PRINTF2("%04x\n", ip);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
   TRACE_AND_STEP();
   M.x86.R_IP = ip;
   M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
   offset = (s8)fetch_byte_imm();
   target = (u16)(M.x86.R_IP + offset);
   DECODE_PRINTF2("%x\n", target);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
   TRACE_AND_STEP();
   M.x86.R_IP = target;
   DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
   DECODE_PRINTF("REPNE\n");
   TRACE_AND_STEP();
   M.x86.mode |= SYSMODE_PREFIX_REPNE;
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.mode |= SYSMODE_32BIT_REP;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
   DECODE_PRINTF("REPE\n");
   TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPE;
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.mode |= SYSMODE_32BIT_REP;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
           break;
       case 4:        /* jmp word ptr ... */
           destval = fetch_data_word(destoffset);
+           JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
           TRACE_AND_STEP();
           M.x86.R_IP = destval;
           break;
       case 5:        /* jmp far ptr ... */
           destval = fetch_data_word(destoffset);
           destval2 = fetch_data_word(destoffset + 2);
+           JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
```

```
          TRACE_AND_STEP();
          M.x86.R_IP = destval;
          M.x86.R_CS = destval2;
Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision
 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ prim_ops.c 16 Jan 2008 14:18:15 -0000 1.3
@@ -1921,7 +1921,7 @@
void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
{
#ifdef  __HAS_LONG_LONG__
-    s64 res = (s64)d * (s64)s;
+    s64 res = (s64)(s32)d * (s64)(s32)s;

   *res_lo = (u32)res;
   *res_hi = (u32)(res >> 32);
@@ -2013,7 +2013,7 @@
void mul_long(u32 s)
{
#ifdef  __HAS_LONG_LONG__
-    u64 res = (u32)M.x86.R_EAX * (u32)s;
+    u64 res = (u64)M.x86.R_EAX * s;

   M.x86.R_EAX = (u32)res;
   M.x86.R_EDX = (u32)(res >> 32);
@@ -2312,16 +2312,15 @@
   }
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
       /* dont care whether REPE or REPNE */
-       /* in until CX is ZERO. */
-       u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+       /* in until (E)CX is ZERO. */
+       u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
                  M.x86.R_ECX : M.x86.R_CX);
-
        while (count--) {
         single_in(size);
         M.x86.R_DI += inc;
         }
       M.x86.R_CX = 0;
-       if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+       if (M.x86.mode & SYSMODE_32BIT_REP) {
          M.x86.R_ECX = 0;
```

```
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
@@ -2355,15 +2354,15 @@
    }
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* out until CX is ZERO. */
-       u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+       /* out until (E)CX is ZERO. */
+       u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
                    M.x86.R_ECX : M.x86.R_CX);
        while (count--) {
          single_out(size);
          M.x86.R_SI += inc;
          }
        M.x86.R_CX = 0;
-       if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+       if (M.x86.mode & SYSMODE_32BIT_REP) {
            M.x86.R_ECX = 0;
        }
        M.x86.mode
 &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
Index: sys.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
retrieving revision 1.1
retrieving revision 1.2
diff -u -u -r1.1 -r1.2
--- sys.c 7 Sep 2007 10:01:21 -0000 1.1
+++ sys.c 7 Sep 2007 10:03:13 -0000 1.2
@@ -45,11 +45,6 @@
#include <x86emu/regs.h>
#include "debug.h"
#include "prim_ops.h"
-#ifdef LINUXBIOS_VERSION
-#include "io.h"
-#else
-#include <sys/io.h>
-#endif

#ifdef IN_MODULE
#include "xf86_ansic.h"
@@ -220,7 +215,7 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("inb %#04x \n", addr);)
- return inb(addr);
+ return 0;
```

```
}

/*****************************************************************************
@@ -235,7 +230,7 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("inw %#04x \n", addr);)
- return inw(addr);
+ return 0;
}

/*****************************************************************************
@@ -250,7 +245,7 @@
{
 DB(if (DEBUG_IO_TRACE())
   printk("inl %#04x \n", addr);)
- return inl(addr);
+ return 0;
}

/*****************************************************************************
@@ -264,7 +259,6 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("outb %#02x -> %#04x \n", val, addr);)
- outb(val, addr);
 return;
}

@@ -279,7 +273,6 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("outw %#04x -> %#04x \n", val, addr);)
- outw(val, addr);
 return;
}

@@ -295,7 +288,6 @@
 DB(if (DEBUG_IO_TRACE())
       printk("outl %#08x -> %#04x \n", val, addr);)

- outl(val, addr);
 return;
}

@@ -405,6 +397,6 @@

void X86EMU_setMemBase(void *base, size_t size)
```

```
{
- M.mem_base = (int) base;
+ M.mem_base = (unsigned long) base;
 M.mem_size = size;
}
Index: include/x86emu/debug.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h 7
 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/debug.h 20 Mar 2008 15:25:27 -0000 1.4
@@ -40,8 +40,6 @@
#ifndef __X86EMU_DEBUG_H
#define __X86EMU_DEBUG_H

-//#define DEBUG 0
-#undef DEBUG
/*---------------------- Macros and type definitions ----------------------*/

/* checks to be enabled for "runtime" */
@@ -78,6 +76,8 @@
# define DEBUG_SYSINT()        (M.x86.debug & DEBUG_SYSINT_F)
# define DEBUG_TRACECALL()     (M.x86.debug & DEBUG_TRACECALL_F)
# define DEBUG_TRACECALLREGS()  (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+# define DEBUG_TRACEJMP()      (M.x86.debug & DEBUG_TRACEJMP_F)
+# define DEBUG_TRACEJMPREGS()   (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
# define DEBUG_SYS()           (M.x86.debug & DEBUG_SYS_F)
# define DEBUG_MEM_TRACE()     (M.x86.debug & DEBUG_MEM_TRACE_F)
# define DEBUG_IO_TRACE()      (M.x86.debug & DEBUG_IO_TRACE_F)
@@ -96,6 +96,8 @@
# define DEBUG_SYSINT()        0
# define DEBUG_TRACECALL()     0
# define DEBUG_TRACECALLREGS()  0
+# define DEBUG_TRACEJMP()
      0
+# define DEBUG_TRACEJMPREGS()   0
# define DEBUG_SYS()           0
# define DEBUG_MEM_TRACE()     0
# define DEBUG_IO_TRACE()      0
@@ -169,14 +171,20 @@
  x86emu_dump_regs();                                 \
 if (DEBUG_TRACECALL())                               \
  printk("%04x:%04x: CALL %s%04x:%04x\n", u , v, s, w, x);
-# define RETURN_TRACE(n,u,v)                          \
+# define RETURN_TRACE(u,v,w,x,s)                      \
```

```
 if (DEBUG_TRACECALLREGS())        \
  x86emu_dump_regs();                          \
 if (DEBUG_TRACECALL())                                \
-  printk("%04x:%04x: %s\n",u,v,n);
+  printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
+# define  JMP_TRACE(u,v,w,x,s)                          \
+   if (DEBUG_TRACEJMPREGS()) \
+      x86emu_dump_regs(); \
+   if (DEBUG_TRACEJMP()) \
+      printk("%04x:%04x: JMP %s%04x:%04x\n", u , v, s, w, x);
#else
# define CALL_TRACE(u,v,w,x,s)
-#
 define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
+# define  JMP_TRACE(u,v,w,x,s)
#endif

#ifdef DEBUG
Index: include/x86emu/regs.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/regs.h 15 Jan 2008 13:46:40 -0000 1.4
@@ -231,6 +231,9 @@
#define SYSMODE_PREFIX_REPNE    0x00000100
#define SYSMODE_PREFIX_DATA     0x00000200
#define SYSMODE_PREFIX_ADDR     0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP       0x00000800
#define SYSMODE_INTR_PENDING    0x10000000
#define SYSMODE_EXTRN_INTR      0x20000000
#define SYSMODE_HALTED          0x40000000
@@ -250,7 +253,8 @@
       SYSMODE_SEGOVR_GS      | \
      SYSMODE_SEGOVR_SS      | \
      SYSMODE_PREFIX_DATA    | \
-      SYSMODE_PREFIX_ADDR)
+       SYSMODE_PREFIX_ADDR    | \
+       SYSMODE_32BIT_REP)

#define  INTR_SYNCH          0x1
#define  INTR_ASYNCH         0x2
@@ -274,9 +278,9 @@
```

```
     */
    u32                     mode;
    volatile int            intr;   /* mask of pending interrupts */
- int                    debug;
+    volatile int                    debug;
#ifdef DEBUG
- int                    check;
+    int                     check;
    u16                     saved_ip;
    u16                     saved_cs;
    int                     enc_pos;
Index: include/x86emu/x86emu.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h 7 Sep 2007 10:01:21
 -0000 1.1
+++ include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000 1.3
@@ -47,6 +47,7 @@
#include <console.h>
#define printk(x...) printk(BIOS_DEBUG, x)
#else
+#include <stdio.h>
#define printk printf
#endif

@@ -189,6 +181,8 @@
#define DEBUG_TRACECALL_REGS_F  0x004000
#define DEBUG_DECODE_NOPRINT_F  0x008000
#define DEBUG_SAVE_IP_CS_F      0x010000
+#define DEBUG_TRACEJMP_F        0x020000
+#define DEBUG_TRACEJMP_REGS_F   0x040000
#define DEBUG_SYS_F             (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void  X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@
#ifdef  __cplusplus
}                       /* End of "C" linkage for C++    */
#endif
-
#endif /* __X86EMU_X86EMU_H */
```

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if not have_bsd_user
  subdir_done()
endif

bsd_user_ss.add(files(
 'bsdload.c',
 'elfload.c',
 'main.c',
 'mmap.c',
 'signal.c',
 'strace.c',
 'syscall.c',
 'uaccess.c',
))

# Pull in the OS-specific build glue, if any
subdir(targetos)
TARGET_ARCH=i386
TARGET_XML_FILES= gdb-xml/i386-32bit.xml
```

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John R. Hauser
2018 January 20

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
```

SevDeprecated = "deprecated"
// deprecated, but still completely functional
SevIgnored = "ignored" // if included in the corefile, it will be ignored by CoreDNS
SevRemoved = "removed" // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
SevNewDefault = "newdefault" // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

// The following statuses are used for selecting/filtering notifications
SevAll = "all" // show all statuses
)
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==========
The common/types/pb/equal.go modification of proto.Equal logic
==========
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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
```

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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procfs provides functions to retrieve system, kernel and process
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==========

The common/types/pb/equal.go modification of proto.Equal logic

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